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Trust [80, 189, 1112, 1131, 1132, 1143, 1862, 2082, 2227]. **Trust-region** [80, 189, 1132, 2082]. **trust-region-free** [1112]. **tumour** [828]. **tuned** [999]. **Turán** [1713]. **turbulent** [1897]. **turning** [1729, 2027]. **TUSLA** [1555]. **TV** [890]. **TVD** [2085]. **TVNE** [2244]. **Two** [261, 314, 510, 1007, 1285, 1404, 1535, 1679, 1775, 1984, 2070, 7, 14, 25, 45, 70, 71, 135, 152, 173, 187, 211, 214, 264, 326, 336, 339, 355, 357, 385, 401, 409, 422, 427, 448, 520, 578, 579, 598, 592, 660, 727, 807, 878, 898, 928, 932, 997, 1012, 1016, 1037, 1146, 1195, 1231, 1234, 1240, 1267, 1270, 1351, 1401, 1514, 1522, 1568, 1610, 1612, 1616, 1618, 1622, 1623, 1627, 1639, 1669, 1700, 1705, 1725, 1726, 1748, 1807, 1848, 1860, 1890, 1897, 1962, 1997, 2010, 2045, 2050, 2049, 2090, 2130, 2197, 2198, 2209]. **two-** [135]. **two-by-two** [187]. **two-dimensional** [71, 152, 264, 326, 385, 401, 422, 448, 928, 932, 1231, 1240, 1351, 1401, 1514, 1610, 1616, 1669, 1725, 1726, 1807, 2197, 2198]. **two-factor** [1612]. **Two-grid** [510]. **Two-level** [1404, 2070, 598, 1679, 2209]. **two-parameter** [339, 1848]. **two-phase** [25, 45, 427, 520, 1037, 1270, 1639, 1890]. **Two-point** [261, 1007, 7, 336, 357, 578, 579, 878, 1146, 1234, 1748, 2010, 2045, 2050, 2049, 2130]. **Two-scale** [1535, 1775, 1568]. **Two-sided** [314]. **Two-stage** [1679, 1984, 70]. **two-step** [211, 660]. **twofold** [1039, 1048, 1052]. **type** [41, 129, 270, 340, 347, 436, 562, 635, 692, 753, 780, 820, 842, 858, 894, 994, 995, 1007, 1022, 1105, 1118, 1125, 1189, 1255, 1258, 1270, 1309, 1351, 1394, 1430, 1469, 1480, 1499, 1523, 1571, 1587, 1621, 1622, 1642, 1646, 1666, 1669, 1700, 1717, 1795, 1805, 1938, 2000, 2023, 2032, 2041, 2063, 2088, 2132, 2141, 2143, 2173, 2200, 2201, 2204, 2207, 2241, 745, 145, 696, 791, 797, 1115, 1194, 1375, 1710, 1972, 2029, 2028, 2050, 2049]. **type-6** [2023]. **type-II** [894].

ultraspherical [1189, 1884]. **Unbiased** [1478]. **unbounded** [1347, 1844, 1725, 1726]. **uncertain** [1612, 1851]. **uncertainty** [52, 682, 1122, 1361]. **Unconditional** [1220]. **Unconditionally** [644, 202, 1413, 1533, 1612, 1616]. **unconstrained** [142, 720, 1862, 2079, 2229]. **underdetermined** [665, 1212]. **underflow** [961]. **understanding** [376]. **unfitted** [237, 239, 480, 478, 524, 806, 969, 1501, 2002, 2129]. **unfitted-mesh** [969]. **unidimensional** [818, 1547, 1815]. **Unified** [1255, 1328, 2219, 533, 657, 755, 797, 889, 1444, 1527, 1566, 2084, 710]. **Uniform** [474, 563, 696, 709, 786, 800, 1006, 1102, 1432, 1617, 1753, 1841, 2013, 2145, 2207, 2230, 215, 324, 411, 564, 913, 950, 1228, 1312, 1463, 1707, 1941, 1958]. **uniform-in-time** [1312]. **Uniformly** [2244, 1, 35, 570, 599, 641, 1618, 2055]. **unilateral** [118, 290, 792, 2070]. **unipolar** [508]. **uniqueness** [2154]. **unit** [473, 906, 1207, 1635, 1842]. **Unitarity** [1349]. **unitary** [1302]. **unity** [873]. **Univariate** [265, 465, 770, 771]. **unknown** [1214, 1950]. **unsteady** [545, 807, 1870, 2048, 712, 272]. **unstructured** [920, 1889]. **unsymmetric** [598]. **updates** [1444, 1932, 2239, 2240]. **Updating** [1937, 1803, 1863]. **upper** [1937]. **Upwind** [1409, 27, 91, 397, 398, 400, 459, 546, 558, 1299, 1564, 1617, 1707, 1917, 1930]. **upwind-** [1707]. **upwinding** [2086]. **Use** [1467, 172, 206, 1207, 1444, 1872, 2004]. **user** [1993]. **user-friendly** [1993]. **Using** [705, 2104, 2, 53, 141, 220, 237, 339, 380, 418, 465, 505, 506, 517, 621, 672, 695, 706, 732, 788, 854, 899, 904, 921, 949, 1035, 1106, 1279, 1290, 1365, 1400, 1498, 1580, 1593, 1615, 1667, 1688, 1697, 1711, 1770, 2020, 2029, 2028, 2237, 748]. **Uzawa** [1699]. **Uzawa-based** [1699].

V [1308]. **validity** [473]. **valuation** [1292, 2255]. **value** [7, 63, 64, 91, 130, 246, 285, 289, 336, 337, 357, 397, 398, 400, 578, 579, 609, 593, 584, 618, 664, 755, 878, 1039, 1078, 1082, 1136, 1137, 1146, 1234, 1276, 1303, 1343, 1351, 1485, 1617, 1662, 1724, 1748, 1853, 1870, 2010, 2045, 2050, 2049, 2054, 2055, 2125, 2130, 2182, 2114, 2107, 2108]. **valued** [295, 859, 1133, 1431, 1511, 2203]. **values** [1353, 1982]. **Vandermonde** [1244, 2118]. **Vandermonde-like** [1244]. **vanishing** [454]. **Variable** [375, 81, 149, 197, 271, 321, 379, 421, 501, 517, 606, 618, 657, 704, 1035, 1157, 1384, 1383, 1549, 1583, 1802, 1856, 1938, 2213, 2228, 2248]. **variable-degree** [606]. **variable-metric** [704]. **variable-order** [2248]. **variable-step** [501]. **variables** [864, 1544]. **variably** [402]. **variance** [681]. **variant** [911, 1130]. **variants** [1622, 2009]. **variate** [1136]. **variation** [252, 387, 388, 497, 903, 1188]. **Variational** [1221, 1434, 1451, 1542, 1912, 1926, 1931, 1959, 2069, 178, 220, 248, 246, 383, 391, 604, 627, 707, 876, 891, 893, 1039, 1089, 1233, 1262, 1265, 1394, 1414, 1508, 1507, 1522, 1757, 1758, 1779, 1797, 1825, 1946, 1956, 2035, 2063, 2070]. **variational-hemivariational** [707]. **variational-iterative** [1946]. **Variational-splitting** [1434]. **varieties** [2117]. **varying** [544, 758, 1252]. **Vector** [1133, 168, 948, 1203, 1344, 1733, 2021, 2061, 2077]. **vector-Laplace** [1344]. **Vector-valued** [1133]. **vectors** [2, 822, 1080, 2060]. **velocity** [427, 493, 1561]. **velocity-based** [427]. **VEM** [271]. **VEMs** [1527]. **Vera** [1095]. **Verification** [443]. **version** [259, 324, 1065, 1063, 1198, 1239, 1277, 1755, 1957, 2188]. **versions** [2033]. **versus** [679, 1120, 1136, 1137, 1242]. **vertex** [905, 1032, 1042]. **vertex-centered** [905]. **very** [662]. **via** [207, 296, 423, 583, 658, 659, 810, 844, 1146, 1215, 1361, 1394, 1423, 1664, 1674, 1675, 1764, 1785, 2205]. **vibration**

[299, 1235]. **vibrations** [253]. **Vibro** [1868]. **Vibro-impact** [1868]. **VIEs** [56]. **viewpoint** [971]. **Virtual** [122, 512, 726, 1038, 2136, 77, 120, 493, 514, 615, 758, 759, 1001, 1505, 1690, 1737, 1736, 2137, 2138, 713, 711, 273]. **viscoelastic** [220, 2208]. **viscoelasticity** [31, 1490]. **viscoplastic** [1494]. **viscosity** [1162, 1257]. **viscosity-splitting** [1162]. **viscous** [399, 1411, 1841]. **Vlasov** [213, 605, 1544, 1902, 817]. **volatilities** [1292]. **volatility** [1612, 1851]. **Volterra** [1630, 190, 196, 281, 348, 449, 448, 452, 450, 451, 709, 797, 1153, 1189, 1287, 1294, 1339, 1390, 1528, 1549, 1594, 1595, 1596, 1611, 1629, 1669, 1898, 1972, 1981, 2067, 2141, 2180, 2207, 2233, 2072, 2111]. **Volterra-type** [797, 1972]. **Volume** [97, 3, 25, 89, 99, 140, 330, 329, 335, 399, 400, 404, 427, 498, 508, 520, 533, 547, 557, 555, 554, 556, 571, 573, 622, 651, 728, 823, 827, 830, 905, 919, 920, 923, 922, 959, 1032, 1233, 1292, 1387, 1388, 1401, 1476, 1603, 1742, 1756, 1770, 1784, 1824, 1945, 2020, 2149, 2217, 2218, 2219, 2232, 2255, 101, 104, 106, 108]. **volume-preserving** [2232]. **volumes** [509, 710]. **volumetric** [1496]. **Vortex** [2019, 2237]. **vortices** [897, 2044]. **vorticity** [78, 307, 1610]. **Vries** [677, 820, 1266, 1474, 1805, 1961].

W [110]. **Waals** [227]. **Wachspress** [1115]. **Wachspress-type** [1115]. **WAF** [2076]. **walk** [871, 1478]. **walk-on-sphere** [1478]. **walled** [95, 969]. **Warming** [2084]. **Warming-Beam** [2084]. **water** [123, 124, 300, 389, 1231, 1870]. **waterbag** [328]. **Wave** [384, 111, 193, 260, 291, 296, 543, 568, 576, 656, 726, 811, 857, 903, 933, 932, 931, 936, 962, 965, 1057, 1062, 1109, 1152, 1181, 1215, 1255, 1256, 1258, 1265, 1281, 1282, 1317, 1361, 1454, 1491, 1571, 1622, 1623, 1628, 1698, 1725, 1726, 1755, 1870, 1882, 1971, 2143, 2170, 2188, 2208, 2236]. **Wave-number** [384]. **wave-packet** [111, 1698]. **wave-structure** [1281]. **wave-thermoelastic** [1282]. **wave-type** [1255, 1258, 1622]. **waveform** [1936, 2192]. **waveguide** [1496]. **Wavelet** [318, 446, 714, 574, 582, 912, 916, 2034, 2179]. **Wavelet-based** [714, 574, 912]. **Wavelet-Fourier** [446]. **wavelets** [1768]. **Wavenumber** [576, 1613]. **waves** [210, 913, 1017]. **Weak** [182, 461, 569, 602, 670, 1441, 1735, 1811, 2152, 68, 180, 359, 440, 1172, 1700, 1745]. **weakly** [215, 324, 348, 449, 565, 600, 662, 791, 1294, 1528, 1543, 1549, 1754, 1784, 1848, 2033, 2067, 2072]. **Weber** [1074]. **wedge** [157]. **Weierstrass** [674]. **weight** [568, 1659, 1830]. **Weighted** [479, 1828, 116, 224, 910, 1093, 1243, 1347, 1704, 1776, 1881, 2065, 2066]. **weights** [982, 1416, 1830, 2091]. **Weiner** [1657]. **Weiner-Hopf** [1657]. **Well** [26, 1755, 548, 662, 1080, 1777, 1933]. **well-conditioned** [1080]. **well-posed** [662, 1933]. **Well-posedness** [26, 1755]. **well-reservoir** [548]. **Wendroff** [1587, 2084]. **Wendroff-type** [1587]. **Wentzell** [212]. **were** [1173]. **Westervelt** [1395]. **which** [1117, 2253]. **white** [362, 1214, 1579]. **whole** [2091]. **Wick** [1642]. **wide** [1862]. **wider** [1116]. **widths** [654]. **Wiener** [846, 1121]. **Willmore** [246]. **Wilson** [596]. **Wimbledon** [110, 110]. **Winther** [526]. **withdrawal** [1300]. **without** [612, 1025, 1196, 1480, 1790, 1861, 1995, 2248]. **work** [838, 843]. **worst** [703, 1829]. **worst-case** [703]. **Wrap** [1222]. **Wrap-around** [1222].

Xin [1973].

years [1095]. **Yee** [1889]. **Yee-like** [1889]. **yielding** [1051]. **Yosida** [1179].

Zakharov [1236, 2047]. **zeros** [76, 769, 1123, 1327, 1656, 1657, 1951, 1977].

References

Abbasi:2019:PDE

[1] Bilal Abbasi and Adam M. Oberman. A partial differential equation for the $|\epsilon|$-uniformly quasiconvex envelope. *IMA Journal of Numerical Analysis*, 39(1):141–166, January 25, 2019. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/39/1/141/4641667.

Abbasi:2024:NSS

[2] Mokhtar Abbasi, Mahdi Ahmadinia, and Ali Ahmadinia. A new step size selection strategy for the superiorization methodology using subgradient vectors and its application for solving convex constrained optimization problems. *IMA Journal of Numerical Analysis*, 44(5):2997–3027, September 2024. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/44/5/2997/7296118.

Abdel:2024:NAF

[3] Dilara Abdel, Claire Chainais-Hillairet, Patricio Farrell, and Maxime Herda. Numerical analysis of a finite volume scheme for charge transport in perovskite solar cells. *IMA Journal of Numerical Analysis*, 44(2): 1090–1129, March 2024. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/44/2/1090/7192241.

Abdulle:2015:FDA

[4] Assyr Abdulle and Yun Bai. Fully discrete analysis of the heterogeneous multiscale method for elliptic problems with multiple scales. *IMA Journal of Numerical Analysis*, 35(1):133–160, January 2015. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/35/1/133.

Abdulle:2023:CAE

[5] Assyr Abdulle, Charles-Edouard Bréhier, and Gilles Vilmart. Convergence analysis of explicit stabilized integrators for parabolic semilinear stochastic PDEs. *IMA Journal of Numerical Analysis*, 43 (1):258–292, January 2023. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/43/1/258/6459386.

Ablowitz:1991:DSD

[6] M. J. Ablowitz, B. M. Herbst, and J. A. C. Weideman. Dynamics of semi-discretizations of the defocusing nonlinear Schrödinger equation. *IMA Journal of Numerical Analysis*, 11(4):539–552, 1991. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Abu-Zaid:1994:FDM

[7] I. T. Abu-Zaid and M. A. El-Gebeily. A finite-difference method for the spectral approximation of a class of singular two-point boundary value problems. *IMA Journal of Numerical Analysis*, 14(4):545–562, 1994. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Acebron:2001:SAC

[8] Juan A. Acebrón, Mikhail M. Lavrentiev, Jr., and Renato Spigler. Spectral analysis and computation for the Kuramoto-Sakaguchi integroparabolic equation. *IMA Journal of Numerical Analysis*, 21(1):239–263, January 2001. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_21/Issue_01/210239.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_21/Issue_01/pdf/210239.pdf.

Aceto:2022:FAA

[9] Lidia Aceto and Paolo Novati. Fast and accurate approximations to fractional powers of operators. *IMA Journal of Numerical Analysis*, 42(2):1598–1622, April 2022. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/42/2/1598/6140849.

Acevedo:2011:BMF

[10] Ramiro Acevedo and Salim Meddahi. An E-based mixed FEM and BEM coupling for a time-dependent eddy current problem. *IMA Journal of Numerical Analysis*, 31(2):667–697, April 2011. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/31/2/667.full.pdf+html.

Achdou:1993:MNS

[11] Yves Achdou and Olivier Pironneau. The χ-method for the Navier–Stokes equations. *IMA Journal of Numerical Analysis*, 13(4):537–558, 1993. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Acker:1988:CRA

[12] Andrew Acker. Convergence results for an analytical trial free-boundary method. *IMA Journal of Numerical Analysis*, 8(3):357–364, 1988. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Ackleh:2023:FDS

[13] Azmy S. Ackleh, Rainey Lyons, and Nicolas Saintier. Finite difference schemes for a size structured coagulation-fragmentation model in the space of Radon measures. *IMA Journal of Numerical Analysis*, 43(6):3357–3395, November 2023. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/43/6/3357/6834123.

Acosta:2012:DSS

[14] Carlos D. Acosta and Raimund Bürger. Difference schemes stabilized by discrete mollification for degenerate parabolic equations in two space dimensions. *IMA Journal of Numerical Analysis*, 32(4):1509–1540, October 2012. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/32/4/1509.full.pdf+html.

Acosta:2014:EPN

[15] Gabriel Acosta and María G. Armentano. Eigenvalue problems in a non-Lipschitz domain. *IMA Journal of Numerical Analysis*, 34(1):83–95, January 2014. CODEN IJNADH.

ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/34/1/83.full.pdf+html.

Acosta:2019:FEA

[16] Gabriel Acosta, Juan Pablo Borthagaray, and Norbert Heuer. Finite element approximations of the nonhomogeneous fractional Dirichlet problem. *IMA Journal of Numerical Analysis*, 39(3):1471–1501, July 2019. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/39/3/1471/4990927.

Actis:2016:NDF

[17] Marcelo Actis, Pedro Morin, and Marilina Carena. Nonlocal diffusions on fractals: qualitative properties and numerical approximations. *IMA Journal of Numerical Analysis*, 36(3):1143–1166, July 2016. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/36/3/1143.

Actis:2023:ACA

[18] Marcelo Actis, Pedro Morin, and Cornelia Schneider. On approximation classes for adaptive time-stepping finite element methods. *IMA Journal of Numerical Analysis*, 43(5):2817–2855, September 2023. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/43/5/2817/6702471.

Adam:1991:PIR

[19] Gh. Adam and A. Nobile. Product integration rules at Clenshaw–Curtis and related points: a robust implementation. *IMA Journal of Numerical Analysis*, 11(2):271–296, 1991. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Adam:2019:SNM

[20] L. Adam, M. Hintermüller, and T. M. Surowiec. A semismooth Newton method with analytical path-following for the H^1-projection onto the Gibbs simplex. *IMA Journal of Numerical Analysis*, 39(3):1276–1295, July 2019. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/39/3/1276/5032993.

Adcock:2012:HOR

[21] Ben Adcock, Arieh Iserles, and Syvert P. Nørsett. From high oscillation to rapid approximation II: expansions in Birkhoff series. *IMA Journal of Numerical Analysis*, 32(1):105–140, January 2012. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/32/1/105.full.pdf+html.

Adcock:2019:OSR

[22] Ben Adcock, Rodrigo B. Platte, and Alexei Shadrin. Optimal sampling rates for approximating analytic functions from pointwise samples. *IMA Journal of Numerical Analysis*, 39(3):1360–1390, July 2019. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/39/3/1360/5001154.

Adler:2016:FOS

[23] James Adler, Scott MacLachlan, and Niall Madden. A first-order system Petrov–Galerkin discretization for a reaction-diffusion problem on a fitted mesh. *IMA Journal of Numerical Analysis*, 36(3):1281–1309, July 2016. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/36/3/1281.

Adler:2002:NMR

[24] Roy L. Adler, Jean-Pierre Dedieu, Joseph Y. Margulies, Marco Martens, and Mike Shub. Newton's method on Riemannian manifolds and a geometric model for the human spine. *IMA Journal of Numerical Analysis*, 22(3):359–390, July 2002. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_22/Issue_03/220359.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_22/Issue_03/pdf/220359.pdf.

Agelas:2022:CNF

[25] Léo Agélas, Martin Schneider, Guillaume Enchéry, and Bernd Flemisch. Convergence of nonlinear finite volume schemes for two-phase porous media flow on general meshes. *IMA Journal of Numerical Analysis*, 42(1):515–568, January 2022. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/42/1/515/5916933.

Aggarwal:2024:WPE

[26] Aekta Aggarwal, Helge Holden, and Ganesh Vaidya. Well-posedness and error estimates for coupled systems of nonlocal conservation laws. *IMA Journal of Numerical Analysis*, 44(6):3354–3392, November 2024. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/44/6/3354/7542429.

Aguillon:2018:EEU

[27] Nina Aguillon and Franck Boyer. Error estimate for the upwind scheme for the linear transport equation with boundary data. *IMA Journal of Numerical Analysis*, 38(2):669–719, April 18, 2018. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/38/2/669/3767777.

Ahmed:1985:FAP

[28] A. H. Ahmed and K. Wright. Further asymptotic properties of collocation matrix norms. *IMA Journal of Numerical Analysis*, 5(2):235–246, 1985. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Ahmed:2021:HOD

[29] Naveed Ahmed and Gunar Matthies. Higher-order discontinuous Galerkin time discretizations for the evolutionary Navier–Stokes equations. *IMA Journal of Numerical Analysis*, 41(4):3113–3144, October 2021. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/41/4/3113/5897816.

Ahmed:2017:AFS

[30] Naveed Ahmed, Tomás Chacón Rebollo, Volker John, and Samuele Rubino. Analysis of a full space-time discretization of the Navier–Stokes equations by a local projection stabilization method. *IMA Journal of Numerical Analysis*, 37(3):1437–1467, July 1, 2017. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `https://academic.oup.com/imajna/article/37/3/1437/2670061/Analysis-of-a-Full-Space-Time-Discretization-of`.

Ahn:2009:DFC

[31] Jeongho Ahn and David E. Stewart. Dynamic frictionless contact in linear viscoelasticity. *IMA Journal of Numerical Analysis*, 29(1):43–71, January 2009. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Ainsworth:1997:PPC

[32] M. Ainsworth, D. W. Kelly, I. H. Sloan, and S. L. Wang. Post-processing with computable error bounds for the finite element approximation of a nonlinear heat conduction problem. *IMA Journal of Numerical Analysis*, 17(4):547–561, October 1997. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://www3.oup.co.uk/imanum/hdb/Volume_17/Issue_04/170547.sgm.abs.html`.

Ainsworth:2012:CEB

[33] Mark Ainsworth, Alejandro Allendes, Gabriel R. Barrenechea, and Richard Rankin. Computable error bounds for nonconforming Fortin–Soulie finite element approximation of the Stokes problem. *IMA Journal of Numerical Analysis*, 32(2):417–447, April 2012. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/32/2/417.full.pdf+html`.

Ainsworth:2001:CEB

[34] Mark Ainsworth and Mark Arnold. Computable error bounds for some simple dimensionally reduced models on thin domains. *IMA Journal of Numerical Analysis*, 21(1):81–105, January 2001. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://www3.oup.co.uk/imanum/hdb/Volume_21/Issue_01/210081.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_21/Issue_01/pdf/210081.pdf`.

Ainsworth:2002:USF

[35] Mark Ainsworth and Patrick Coggins. A uniformly stable family of mixed *hp* finite elements with continuous pressures for incompressible flow. *IMA Journal of Numerical Analysis*, 22(2):307–327, April 2002. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://www3.oup.co.uk/imanum/hdb/Volume_22/Issue_02/220307.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_22/Issue_02/pdf/220307.pdf`.

Ainsworth:2011:CFE

[36] Mark Ainsworth and Richard Rankin. Constant free error bounds for nonuniform order discontinuous Galerkin finite-element approximation on locally refined meshes with hanging nodes. *IMA Journal of Numer-*

ical Analysis, 31(1):254–280, January 2011. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/31/1/254.full.pdf+html`.

Ainsworth:2017:CEB

[37] Mark Ainsworth and Richard Rankin. Computable error bounds for finite element approximation on nonpolygonal domains. *IMA Journal of Numerical Analysis*, 37(2):604–645, April 2017. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `https://academic.oup.com/imajna/article/37/2/604/2670033/Computable-error-bounds-for-finite-element`.

Aitchison:1984:NMP

[38] J. M. Aitchison. Numerical modelling of PIN diodes. *IMA Journal of Numerical Analysis*, 4(1):43–53, January 1984. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Akinola:2014:CJB

[39] Richard O. Akinola, Melina A. Freitag, and Alastair Spence. The computation of Jordan blocks in parameter-dependent matrices. *IMA Journal of Numerical Analysis*, 34(3):955–976, July 2014. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/34/3/955`.

Akrivis:2018:SII

[40] Georgios Akrivis. Stability of implicit and implicit-explicit multistep methods for nonlinear parabolic equations. *IMA Journal of Numerical Analysis*, 38(4):1768–1796, October 16, 2018. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/38/4/1768/4321720`.

Akrivis:2016:LIS

[41] Georgios Akrivis, Anna Kalogirou, Demetrios T. Papageorgiou, and Yiorgos-Sokratis Smyrlis. Linearly implicit schemes for multi-dimensional Kuramoto–Sivashinsky type equations arising in falling film flows. *IMA Journal of Numerical Analysis*, 36(1):317–336, January 2016. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/36/1/317`.

Akrivis:2018:MNA

[42] Georgios Akrivis and Buyang Li. Maximum norm analysis of implicit–explicit backward difference formulae for nonlinear parabolic equations. *IMA Journal of Numerical Analysis*, 38(1):75–101, January 25, 2018. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/38/1/75/3077045`.

Akrivis:2021:LFE

[43] Georgios Akrivis and Buyang Li. Linearization of the finite element method for gradient flows by Newton's method. *IMA Journal of Numerical Analysis*, 41(2):1411–1440, April 2021. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/41/2/1411/5869503`.

Akrivis:2022:EEF

[44] Georgios Akrivis and Buyang Li. Error estimates for fully discrete BDF finite element approximations of the Allen–Cahn equation. *IMA Journal of Numerical Analysis*, 42(1):363–391, January 2022. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/42/1/363/5917449`.

Akrivis:2011:LIM

[45] Georgios Akrivis, Demetrios T. Papageorgiou, and Yiorgos-Sokratis Smyrlis. Linearly implicit methods for a semilinear parabolic system arising in two-phase flows. *IMA Journal of Numerical Analysis*, 31(1):299–321, January 2011. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/31/1/299.full.pdf+html`.

Akrivis:1993:FDD

[46] Georgios D. Akrivis. Finite difference discretization of the cubic Schrödinger equation. *IMA Journal of Numerical Analysis*, 13(1):115–124, 1993. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Al-Baali:1985:DPG

[47] M. Al-Baali. Descent property and global convergence of the Fletcher–Reeves method with inexact line search. *IMA Journal of Numerical Analysis*, 5(1):121–124, 1985. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

AlDaas:2019:EGS

[48] Hussam Al Daas, Laura Grigori, Pascal Hénon, and Philippe Ricoux. Enlarged GMRES for solving linear systems with one or multiple right-hand sides. *IMA Journal of Numerical Analysis*, 39(4):1924–1956, October 2019. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/39/4/1924/5078636`.

Al-Maskari:2022:TFC

[49] Mariam Al-Maskari and Samir Karaa. The time-fractional Cahn–Hilliard equation: analysis and approximation. *IMA Journal of Numerical Analysis*, 42(2):1831–1865, April 2022. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/42/2/1831/6277317`.

Al-Zanaidi:1996:MET

[50] M. Al-Zanaidi, C. Grossmann, and R. L. Voller. Monotonous enclosures for the Thomas–Fermi equation in the isolated neutral atom case. *IMA Journal of Numerical Analysis*, 16(3):413–434, July 1996. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://www3.oup.co.uk/imanum/hdb/Volume_16/Issue_03/160413.sgm.abs.html`.

Alaa:2013:CED

[51] Nour Eddine Alaa and Morgan Pierre. Convergence to equilibrium for discretized gradient-like systems with analytic features. *IMA Journal of Numerical Analysis*, 33(4):1291–1321, October 2013. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642

(electronic). URL http://imajna.oxfordjournals.org/content/33/4/1291.full.pdf+html.

Alaiz:2015:CMN

[52] Carlos M. Alaíz, Francesco Dinuzzo, and Suvrit Sra. Correlation matrix nearness and completion under observation uncertainty. *IMA Journal of Numerical Analysis*, 35(1):325–340, January 2015. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/35/1/325.

Alfonsi:2024:HOA

[53] Aurélien Alfonsi and Edoardo Lombardo. High order approximations of the Cox–Ingersoll–Ross process semigroup using random grids. *IMA Journal of Numerical Analysis*, 44 (4):2277–2322, July 2024. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/44/4/2277/7246577.

Ali:2020:OCE

[54] Ahmad Ahmad Ali, Michael Hinze, and Heiko Kröner. Optimal control of elliptic surface PDEs with pointwise bounds on the state. *IMA Journal of Numerical Analysis*, 40(1):226–246, January 2020. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/40/1/226/5301318.

Ali:2022:EHS

[55] Mazen Ali, Stefan A. Funken, and Anja Schmidt. H^1-stability of the L^2-projection onto finite element spaces on adaptively refined quadrilateral meshes. *IMA Journal of Numerical Analysis*, 42(3):2684–2709, July 2022. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/42/3/2684/6309166.

Allaei:2017:CMT

[56] Sonia Seyed Allaei, Zhan-Wen Yang, and Hermann Brunner. Collocation methods for third-kind VIEs. *IMA Journal of Numerical Analysis*, 37(3):1104–1124, July 1, 2017. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL https://academic.oup.com/imajna/article/37/3/1104/2670013/Collocation-methods-for-third-kind-VIEs.

Allendes:2020:AFE

[57] A. Allendes, F. Fuica, and E. Otárola. Adaptive finite element methods for sparse PDE-constrained optimization. *IMA Journal of Numerical Analysis*, 40(3):2106–2142, July 2020. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/40/3/2106/5506756.

Allendes:2024:DPC

[58] Alejandro Allendes, Gilberto Campaña, Francisco Fuica, and Enrique Otárola. Darcy's problem coupled with the heat equation under singular forcing: analysis and discretization. *IMA Journal of Numerical Analysis*, 44(6):3683–3716, November 2024. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/44/6/3683/7512101.

Allendes:2016:EEL

[59] Alejandro Allendes, Francisco Durán, and Richard Rankin. Error estimation for low-order adaptive finite element approximations for fluid flow problems. *IMA Journal of Numerical Analysis*, 36(4):1715–1747, October 2016. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/36/4/1715.

Allgower:1994:BSC

[60] Eugene Allgower, Klaus Böhmer, and Mei Zhen. Branch switching at a corank-4 bifurcation point of semilinear elliptic problems with symmetry. *IMA Journal of Numerical Analysis*, 14(2):161–182, 1994. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Almacany:1984:DCA

[61] M. Almacany, C. B. Dunham, and J. Williams. Discrete Chebyshev approximation by interpolating rationals. *IMA Journal of Numerical Analysis*, 4 (4):467–477, October 1984. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Almonacid:2020:FMF

[62] Javier A. Almonacid, Hugo S. Díaz, Gabriel N. Gatica, and Antonio Márquez. A fully mixed finite element method for the coupling of the Stokes and Darcy–Forchheimer problems. *IMA Journal of Numerical Analysis*, 40(2):1454–1502, April 2020. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/40/2/1454/5304850.

Alonso-Mallo:2017:AOR

[63] I. Alonso-Mallo, B. Cano, and N. Reguera. Avoiding order reduction when integrating linear initial boundary value problems with Lawson methods. *IMA Journal of Numerical Analysis*, 37(4):2091–2119, October 1, 2017. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL https://academic.oup.com/imajna/article/37/4/2091/2422321.

Alonso-Mallo:2018:AOR

[64] I. Alonso-Mallo, B. Cano, and N. Reguera. Avoiding order reduction when integrating linear initial boundary value problems with exponential splitting methods. *IMA Journal of Numerical Analysis*, 38(3):1294–1323, July 17, 2018. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/38/3/1294/4085564.

Altmann:2022:CGS

[65] Robert Altmann and Roland Herzog. Continuous Galerkin schemes for semiexplicit differential-algebraic equations. *IMA Journal of Numerical Analysis*, 42(3):2214–2237, July 2022. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/42/3/2214/6277325.

Altmann:2023:BSL

[66] Robert Altmann, Balázs Kovács, and Christoph Zimmer. Bulk-surface Lie splitting for parabolic problems with

dynamic boundary conditions. *IMA Journal of Numerical Analysis*, 43 (2):950–975, March 2023. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/43/2/950/6550477`.

Altmann:2024:SOB

[67] Robert Altmann and Christoph Zimmer. A second-order bulk-surface splitting for parabolic problems with dynamic boundary conditions. *IMA Journal of Numerical Analysis*, 44 (4):2370–2393, July 2024. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/44/4/2370/7241148`.

Altmayer:2017:DHM

[68] Martin Altmayer and Andreas Neuenkirch. Discretising the Heston model: an analysis of the weak convergence rate. *IMA Journal of Numerical Analysis*, 37(4):1930–1960, October 1, 2017. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `https://academic.oup.com/imajna/article/37/4/1930/2894466`.

Alvarez:2021:MPF

[69] Mario Alvarez, Gabriel N. Gatica, and Ricardo Ruiz-Baier. A mixed-primal finite element method for the coupling of Brinkman–Darcy flow and nonlinear transport. *IMA Journal of Numerical Analysis*, 41(1):381–411, January 2021. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/41/1/381/5771306`.

Amat:2022:TSA

[70] Sergio Amat, David Levin, and Juan Ruiz-Álvarez. A two-stage approximation strategy for piecewise smooth functions in two and three dimensions. *IMA Journal of Numerical Analysis*, 42 (4):3330–3359, October 2022. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/42/4/3330/6374288`.

Amat:2023:GEA

[71] Sergio Amat, David Levin, Juan Ruiz-Alvárez, and Dionisio F Yáñez. Global and explicit approximation of piecewise-smooth two-dimensional functions from cell-average data. *IMA Journal of Numerical Analysis*, 43 (4):2299–2319, July 2023. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/43/4/2299/6657659`.

Amestoy:2023:MPL

[72] Patrick Amestoy, Olivier Boiteau, Alfredo Buttari, Matthieu Gerest, Fabienne Jézéquel, Jean-Yves L'Excellent, and Theo Mary. Mixed precision low-rank approximations and their application to block low-rank *LU* factorization. *IMA Journal of Numerical Analysis*, 43(4):2198–2227, July 2023. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/43/4/2198/6667623`.

Amiraslani:2009:LMP

[73] A. Amiraslani, R. M. Corless, and P. Lancaster. Linearization of matrix polynomials expressed in polyno-

mial bases. *IMA Journal of Numerical Analysis*, 29(1):141–157, January 2009. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Amrein:2017:AST

[74] Mario Amrein and Thomas P. Wihler. An adaptive space-time Newton–Galerkin approach for semilinear singularly perturbed parabolic evolution equations. *IMA Journal of Numerical Analysis*, 37(4):2004–2019, October 1, 2017. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `https://academic.oup.com/imajna/article/37/4/2004/2670067`.

An:2022:ABE

[75] Rong An and Weiwei Sun. Analysis of backward Euler projection FEM for the Landau–Lifshitz equation. *IMA Journal of Numerical Analysis*, 42(3):2336–2360, July 2022. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/42/3/2336/6278230`.

Anastasselou:1986:FCD

[76] Eleni G. Anastasselou. A formal comparison of the Delves-Lyness and Burniston-Siewert methods for locating the zeros of analytic functions. *IMA Journal of Numerical Analysis*, 6(3):337–341, 1986. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Anaya:2020:VEM

[77] Verónica Anaya, Mostafa Bendahmane, David Mora, and Mauricio Sepúlveda. A virtual element method for a nonlocal FitzHugh–Nagumo model of cardiac electrophysiology. *IMA Journal of Numerical Analysis*, 40(2):1544–1576, April 2020. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/40/2/1544/5309005`.

Anaya:2017:PVF

[78] Verónica Anaya, David Mora, and Ricardo Ruiz-Baier. Pure vorticity formulation and Galerkin discretization for the Brinkman equations. *IMA Journal of Numerical Analysis*, 37(4):2020–2041, October 1, 2017. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `https://academic.oup.com/imajna/article/37/4/2020/2670308`.

Anderson:2015:ARB

[79] David F. Anderson and Masanori Koyama. An asymptotic relationship between coupling methods for stochastically modeled population processes. *IMA Journal of Numerical Analysis*, 35(4):1757–1778, October 2015. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/35/4/1757`.

Andreani:2008:TRS

[80] R. Andreani, J. M. Martínez, and L. Martínez. Trust-region superposition methods for protein alignment. *IMA Journal of Numerical Analysis*, 28(4):690–710, October 2008. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/cgi/content/abstract/28/4/690`.

Andreani:2005:SPG

[81] Roberto Andreani, Ernesto G. Birgin, José Mario Martínez, and Jinyun Yuan. Spectral projected gradient and variable metric methods for optimization with linear inequalities. *IMA Journal of Numerical Analysis*, 25(2):221–252, April 2005. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imanum.oupjournals.org/cgi/content/abstract/25/2/221; http://imanum.oupjournals.org/cgi/reprint/25/2/221.

Andreani:2017:ESO

[82] Roberto Andreani, Gabriel Haeser, Alberto Ramos, and Paulo J. S. Silva. Erratum: "A second-order sequential optimality condition associated to the convergence of optimization algorithms". *IMA Journal of Numerical Analysis*, 37(4):e1–??, October 1, 2017. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL https://academic.oup.com/imajna/article/37/4/e1/3859208. See [83].

Andreani:2017:SOS

[83] Roberto Andreani, Gabriel Haeser, Alberto Ramos, and Paulo J. S. Silva. A second-order sequential optimality condition associated to the convergence of optimization algorithms. *IMA Journal of Numerical Analysis*, 37(4): 1902–1929, October 1, 2017. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL https://academic.oup.com/imajna/article/37/4/1902/2929533. See erratum [82].

Andreani:2022:CAL

[84] Roberto Andreani, Alberto Ramos, Ademir A. Ribeiro, Leonardo D. Secchin, and Ariel R. Velazco. On the convergence of augmented Lagrangian strategies for nonlinear programming. *IMA Journal of Numerical Analysis*, 42(2):1735–1765, April 2022. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/42/2/1735/6254234.

Andreev:2004:IFE

[85] Andrey B. Andreev and Todor D. Todorov. Isoparametric finite-element approximation of a Steklov eigenvalue problem. *IMA Journal of Numerical Analysis*, 24(2):309–322, April 2004. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_24/Issue_02/240309.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_24/Issue_02/pdf/240309.pdf.

Andreev:2013:SSS

[86] Roman Andreev. Stability of sparse space–time finite element discretizations of linear parabolic evolution equations. *IMA Journal of Numerical Analysis*, 33(1):242–260, January 2013. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/33/1/242.full.pdf+html.

Andreia:2024:ATS

[87] Merlin Andreia and Christian Meyer. An adaptive time stepping scheme for

rate-independent systems with nonconvex energy. *IMA Journal of Numerical Analysis*, 44(1):435–465, January 2024. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/44/1/435/7071697.

Andreianov:2012:DDG

[88] Boris Andreianov, Mostafa Bendahmane, Florence Hubert, and Stella Krell. On 3D DDFV discretization of gradient and divergence operators. I. Meshing, operators and discrete duality. *IMA Journal of Numerical Analysis*, 32(4):1574–1603, October 2012. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/32/4/1574.full.pdf+html.

Andreianov:2006:FVA

[89] Boris Andreianov, Franck Boyer, and Florence Hubert. On the finite-volume approximation of regular solutions of the p-Laplacian. *IMA Journal of Numerical Analysis*, 26(3):472–502, July 2006. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://comjnl.oxfordjournals.org/cgi/content/abstract/26/3/472; http://comjnl.oxfordjournals.org/cgi/reprint/26/3/472.

Andreianov:2024:NDD

[90] Boris Andreianov and El Houssaine Quenjel. Nodal discrete duality numerical scheme for nonlinear diffusion problems on general meshes. *IMA Journal of Numerical Analysis*, 44 (3):1597–1643, May 2024. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/44/3/1597/7199099.

Angermann:1992:PES

[91] Lutz Angermann. An a posteriori estimation for the solution of elliptic boundary value problems by means of upwind FEM. *IMA Journal of Numerical Analysis*, 12(2):201–215, 1992. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Angermann:1995:EEF

[92] Lutz Angermann. Error estimates for the finite-element solution of an elliptic singularly perturbed problem. *IMA Journal of Numerical Analysis*, 15(2):161–196, 1995. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Annaby:2015:EEA

[93] M. H. Annaby and R. M. Asharabi. Error estimates associated with sampling series of the linear canonical transforms. *IMA Journal of Numerical Analysis*, 35(2):931–946, April 2015. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/35/2/931.

Annaby:2007:CES

[94] M. H. Annaby and M. M. Tharwat. On computing eigenvalues of second-order linear pencils. *IMA Journal of Numerical Analysis*, 27(2):366–380, April 2007. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.

oxfordjournals.org/cgi/content/abstract/27/2/366; http://imajna.oxfordjournals.org/cgi/reprint/27/2/366.

Annese:2023:SSL

[95] Michele Annese, Miguel A. Fernández, and Lucia Gastaldi. Splitting schemes for a Lagrange multiplier formulation of FSI with immersed thin-walled structure: stability and convergence analysis. *IMA Journal of Numerical Analysis*, 43(2):881–919, March 2023. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/43/2/881/6549750.

Anonymous:1985:FPC

[96] Anonymous. 1985 L. Fox prize: Call for entries. *IMA Journal of Numerical Analysis*, 5(1):1, 1985. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Anonymous:1985:IV

[97] Anonymous. Index to volume 5. *IMA Journal of Numerical Analysis*, 5(4):501–502, 1985. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Anonymous:1985:R

[98] Anonymous. Referees 1984–85. *IMA Journal of Numerical Analysis*, 5(4): 499–500, 1985. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Anonymous:1999:IV

[99] Anonymous. Index to volume 19. *IMA Journal of Numerical Analysis*, 19(4): 669–670, October 1999. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_19/Issue_04/pdf/190665.pdf.

Anonymous:1999:R

[100] Anonymous. Referees 1998–99. *IMA Journal of Numerical Analysis*, 19(4): 665–667, October 1999. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_19/Issue_04/pdf/190665.pdf.

Anonymous:2002:IV

[101] Anonymous. Index to Volume 22. *IMA Journal of Numerical Analysis*, 22(4): 669–670, October 2002. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_22/Issue_04/pdf/220669.pdf.

Anonymous:2002:R

[102] Anonymous. Referees 2001–2002. *IMA Journal of Numerical Analysis*, 22(4): 665–667, October 2002. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_22/Issue_04/pdf/220665.pdf.

Anonymous:2004:E

[103] Anonymous. Editorial. *IMA Journal of Numerical Analysis*, 24(1): i–??, January 2004. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_24/Issue_01/pdf/24000i.pdf.

Anonymous:2004:IV

[104] Anonymous. Index to Volume 24. *IMA Journal of Numerical Analysis*, 24(4):725–726, October 2004. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imanum.oupjournals.org/cgi/reprint/24/4/725`.

Anonymous:2004:R

[105] Anonymous. Referees 2003–2004. *IMA Journal of Numerical Analysis*, 24(4):721–724, October 2004. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imanum.oupjournals.org/cgi/reprint/24/4/721`.

Anonymous:2005:IV

[106] Anonymous. Index to Volume 25. *IMA Journal of Numerical Analysis*, 25 (4):847–849, October 2005. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imanum.oxfordjournals.org/cgi/reprint/25/4/847`.

Anonymous:2005:R

[107] Anonymous. Referees 2004–2005. *IMA Journal of Numerical Analysis*, 25 (4):843–845, October 2005. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imanum.oxfordjournals.org/cgi/reprint/25/4/843`.

Anonymous:2006:IV

[108] Anonymous. Index to Volume 26. *IMA Journal of Numerical Analysis*, 26(4):851–853, October 2006. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/cgi/reprint/26/4/851`; `http://imanum.oxfordjournals.org/cgi/reprint/26/4/851`.

Anonymous:2006:R

[109] Anonymous. Referees 2005–2006. *IMA Journal of Numerical Analysis*, 26 (4):847–850, October 2006. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/cgi/reprint/26/4/847`.

Anonymous:2021:JWB

[110] Anonymous. John W. Barrett 29 June 1955, Wimbledon–30 June 2019, Wimbledon. *IMA Journal of Numerical Analysis*, 41(3):1639, July 2021. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/41/3/1639/6309377`.

Anonymous:2023:CNS

[111] Anonymous. Correction to: A novel spectral method for the semiclassical Schrödinger equation based on the Gaussian wave-packet transform. *IMA Journal of Numerical Analysis*, 43(6):3800, November 2023. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/43/6/3800/6958795`. See [1698].

Anselone:1987:DCA

[112] P. M. Anselone and R. Ansorge. Discrete closure and asymptotic (quasi-) regularity in discretization algorithms. *IMA Journal of Numerical Analysis*, 7(4):431–448, 1987. CODEN IJ-

NADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Antil:2023:AFH

[113] Harbir Antil, Sören Bartels, and Armin Schikorra. Approximation of fractional harmonic maps. *IMA Journal of Numerical Analysis*, 43(3): 1291–1323, May 2023. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/43/3/1291/6645339`.

Antil:2020:PCE

[114] Harbir Antil, Thomas S. Brown, and Francisco-Javier Sayas. A problem in control of elastodynamics with piezoelectric effects. *IMA Journal of Numerical Analysis*, 40(4):2839–2870, October 2020. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/40/4/2839/5680742`.

Antil:2018:PEA

[115] Harbir Antil and Enrique Otárola. An a posteriori error analysis for an optimal control problem involving the fractional Laplacian. *IMA Journal of Numerical Analysis*, 38(1):198–226, January 25, 2018. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/38/1/198/3062292`.

Antil:2018:SAW

[116] Harbir Antil, Enrique Otárola, and Abner J. Salgado. Some applications of weighted norm inequalities to the error analysis of PDE-constrained optimization problems. *IMA Journal of Numerical Analysis*, 38(2):852–883, April 18, 2018. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/38/2/852/3858067`.

Antil:2016:AEE

[117] Harbir Antil and Abner J. Salgado. Approximation of elliptic equations with bmo coefficients. *IMA Journal of Numerical Analysis*, 36(1):222–237, January 2016. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/36/1/222`.

Antolin:2019:PEU

[118] Pablo Antolin, Annalisa Buffa, and Mathieu Fabre. A priori error for unilateral contact problems with Lagrange multipliers and isogeometric analysis. *IMA Journal of Numerical Analysis*, 39 (4):1627–1651, October 2019. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/39/4/1627/5058940`.

Anton:2020:FDA

[119] Rikard Anton, David Cohen, and Lluis Quer-Sardanyons. A fully discrete approximation of the one-dimensional stochastic heat equation. *IMA Journal of Numerical Analysis*, 40(1):247–284, January 2020. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/40/1/247/5133711`.

Antonietti:2022:AEP

[120] P. F. Antonietti, S. Berrone, A. Borio, A. D'Auria, M. Verani, and S. Weisser. Anisotropic *a posteriori* error estimate for the virtual element method. *IMA Journal of Numerical Analysis*, 42(2):1273–1312, April 2022. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/42/2/1273/6145109.

Antonietti:2018:HOD

[121] Paola F. Antonietti, Ilario Mazzieri, Niccolò Dal Santo, and Alfio Quarteroni. A high-order discontinuous Galerkin approximation to ordinary differential equations with applications to elastodynamics. *IMA Journal of Numerical Analysis*, 38(4):1709–1734, October 16, 2018. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/38/4/1709/4581911.

Antonietti:2023:VEM

[122] Paola F. Antonietti, Giuseppe Vacca, and Marco Verani. Virtual element method for the Navier–Stokes equation coupled with the heat equation. *IMA Journal of Numerical Analysis*, 43(6):3396–3429, November 2023. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/43/6/3396/6832264.

Antonopoulos:2017:GFE

[123] D. C. Antonopoulos and V. A. Dougalis. Galerkin-finite element methods for the shallow water equations with characteristic boundary conditions. *IMA Journal of Numerical Analysis*, 37(1):266–295, January 1, 2017. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL https://academic.oup.com/imajna/article/37/1/266/2669960/Galerkin-finite-element-methods-for-the-shallow.

Antonopoulos:2020:SGM

[124] D. C. Antonopoulos, V. A. Dougalis, and G. Kounadis. On the standard Galerkin method with explicit RK4 time stepping for the shallow water equations. *IMA Journal of Numerical Analysis*, 40(4):2415–2449, October 2020. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/40/4/2415/5549725.

Antonopoulou:2020:STD

[125] Dimitra C. Antonopoulou. Space–time discontinuous Galerkin methods for the ϵ-dependent stochastic Allen–Cahn equation with mild noise. *IMA Journal of Numerical Analysis*, 40(3):2076–2105, July 2020. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/40/3/2076/5429543.

Antonopoulou:2024:EPE

[126] Dimitra C. Antonopoulou, Bernard Egwu, and Yubin Yan. *A posteriori* error analysis of space-time discontinuous Galerkin methods for the ϵ-stochastic Allen–Cahn equation. *IMA Journal of Numerical Analysis*, 44(3):1862–1902, May 2024. CODEN IJNADH. ISSN 0272-4979 (print),

1464-3642 (electronic). URL http://academic.oup.com/imajna/article/44/3/1862/7234090.

Apel:2022:NPR

[127] Thomas Apel, Volker Kempf, Alexander Linke, and Christian Merdon. A nonconforming pressure-robust finite element method for the Stokes equations on anisotropic meshes. *IMA Journal of Numerical Analysis*, 42(1):392–416, January 2022. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/42/1/392/6065723.

Apel:2001:NCF

[128] Thomas Apel, Serge Nicaise, and Joachim Schöberl. A non-conforming finite element method with anisotropic mesh grading for the Stokes problem in domains with edges. *IMA Journal of Numerical Analysis*, 21(4):843–856, October 2001. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_21/Issue_04/210843.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_21/Issue_04/pdf/210843.pdf.

Apel:2005:CTI

[129] Thomas Apel and Cornelia Pester. Clement-type interpolation on spherical domains—interpolation error estimates and application to a posteriori error estimation. *IMA Journal of Numerical Analysis*, 25(2):310–336, April 2005. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imanum.oupjournals.org/cgi/content/abstract/25/2/310; http://imanum.oupjournals.org/cgi/reprint/25/2/310.

Apel:2020:MNE

[130] Thomas Apel, Sergejs Rogovs, Johannes Pfefferer, and Max Winkler. Maximum norm error estimates for Neumann boundary value problems on graded meshes. *IMA Journal of Numerical Analysis*, 40(1):474–497, January 2020. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/40/1/474/5239883.

Apel:2018:EEP

[131] Thomas Apel, Max Winkler, and Johannes Pfefferer. Error estimates for the postprocessing approach applied to Neumann boundary control problems in polyhedral domains. *IMA Journal of Numerical Analysis*, 38(4):1984–2025, October 16, 2018. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/38/4/1984/4389275.

Araujo:2015:SFD

[132] Adérito Araújo, Sílvia Barbeiro, and Pedro Serranho. Stability of finite difference schemes for nonlinear complex reaction-diffusion processes. *IMA Journal of Numerical Analysis*, 35(3):1381–1401, July 2015. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/35/3/1381.

Araya:2011:FEA

[133] Rodolfo Araya, Gabriel R. Barrenechea, Fabrice Jaillet, and Rodolfo

Rodríguez. Finite-element analysis of a static fluid–solid interaction problem. *IMA Journal of Numerical Analysis*, 31(3):886–913, July 2011. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/31/3/886.full.pdf+html.

Araya:2007:SFE

[134] Rodolfo Araya, Gabriel R. Barrenechea, and Frédéric Valentin. A stabilized finite-element method for the Stokes problem including element and edge residuals. *IMA Journal of Numerical Analysis*, 27(1):172–197, January 2007. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/cgi/content/abstract/27/1/172; http://imajna.oxfordjournals.org/cgi/reprint/27/1/172.

Araya:2016:LOL

[135] Rodolfo Araya, Abner H. Poza, and Frédéric Valentin. A low-order local projection method for the incompressible Navier–Stokes equations in two- and three-dimensions. *IMA Journal of Numerical Analysis*, 36(1):267–295, January 2016. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/36/1/267.

Araya:2021:MPE

[136] Rodolfo Araya, Ramiro Rebolledo, and Frédéric Valentin. On a multiscale a posteriori error estimator for the Stokes and Brinkman equations. *IMA Journal of Numerical Analysis*, 41(1):344–380, January 2021. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/41/1/344/5661655.

Araya:2020:NAT

[137] Rodolfo Araya, Rodolfo Rodríguez, and Pablo Venegas. Numerical analysis of a time domain elastoacoustic problem. *IMA Journal of Numerical Analysis*, 40(2):1122–1153, April 2020. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/40/2/1122/5289476.

Araya:2019:AAH

[138] Rodolfo Araya, Manuel Solano, and Patrick Vega. Analysis of an adaptive HDG method for the Brinkman problem. *IMA Journal of Numerical Analysis*, 39(3):1502–1528, July 2019. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/39/3/1502/5032331.

Arbenz:1982:CFE

[139] P. Arbenz. Computable finite element error bounds for Poisson's equation. *IMA Journal of Numerical Analysis*, 2(4):475–479, October 1982. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Arbogast:2014:PEE

[140] T. Arbogast, D. Estep, B. Sheehan, and S. Tavener. A posteriori error estimates for mixed finite element and finite volume methods for problems coupled through a boundary with nonmatching grids. *IMA Journal of

Numerical Analysis, 34(4):1625–1653, October 2014. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/34/4/1625`.

Arbogast:2022:SAT

[141] Todd Arbogast and Chieh-Sen Huang. A self-adaptive theta scheme using discontinuity aware quadrature for solving conservation laws. *IMA Journal of Numerical Analysis*, 42(4):3430–3463, October 2022. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/42/4/3430/6403484`.

Ardenghi:2009:SGM

[142] J. I. Ardenghi, T. I. Gibelli, and M. C. Maciel. The spectral gradient method for unconstrained optimal control problems. *IMA Journal of Numerical Analysis*, 29(2):315–331, April 2009. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/cgi/content/abstract/29/2/315; http://imajna.oxfordjournals.org/cgi/reprint/29/2/315`.

Arendt:2022:GAL

[143] W. Arendt, I. Chalendar, and R. Eymard. Galerkin approximation of linear problems in Banach and Hilbert spaces. *IMA Journal of Numerical Analysis*, 42(1):165–198, January 2022. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/42/1/165/5916502`.

Arendt:2025:STE

[144] W Arendt, I Chalendar, and R Eymard. Space–time error estimates for approximations of linear parabolic problems with generalized time boundary conditions. *IMA Journal of Numerical Analysis*, 45(2):1173–1225, March 2025. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/45/2/1173/7685862`.

Argyros:1998:NNM

[145] Ioannis K. Argyros. On a new Newton-Mysovskii-type theorem with applications to inexact Newton-like methods and their discretizations. *IMA Journal of Numerical Analysis*, 18(1):37–56, January 1998. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://www3.oup.co.uk/imanum/hdb/Volume_18/Issue_01/180037.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_18/Issue_01/pdf/180037.pdf`.

Arioli:2018:FEM

[146] Mario Arioli and Michele Benzi. A finite element method for quantum graphs. *IMA Journal of Numerical Analysis*, 38(3):1119–1163, July 17, 2018. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/38/3/1119/3883929`.

Arioli:2013:DFS

[147] Mario Arioli, Drosos Kourounis, and Daniel Loghin. Discrete fractional Sobolev norms for domain decomposition preconditioning. *IMA Jour-*

nal of Numerical Analysis, 33(1):318–342, January 2013. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/33/1/318.full.pdf+html`.

Arioli:1992:SCC

[148] Mario Arioli and Francesco Romani. Stability, convergence, and conditioning of stationary iterative methods of the form $x^{(i+1)} = Px^{(i)} + q$ for the solution of linear systems. *IMA Journal of Numerical Analysis*, 12(1):21–30, 1992. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Aristotelous:2015:ASO

[149] Andreas C. Aristotelous, Ohannes A. Karakashian, and Steven M. Wise. Adaptive, second-order in time, primitive-variable discontinuous Galerkin schemes for a Cahn–Hilliard equation with a mass source. *IMA Journal of Numerical Analysis*, 35(3):1167–1198, July 2015. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/35/3/1167`.

Arnal:2008:NAM

[150] Josep Arnal, Violeta Migallón, José Penadés, and Daniel B. Szyld. Newton additive and multiplicative Schwarz iterative methods. *IMA Journal of Numerical Analysis*, 28(1):143–161, January 2008. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/cgi/content/abstract/28/1/143`; `http://imajna.oxfordjournals.org/cgi/reprint/28/1/143`.

Asaturyan:2001:LSP

[151] Souren Asaturyan, Paolo Costantini, and Carla Manni. Local shape-preserving interpolation by space curves. *IMA Journal of Numerical Analysis*, 21(1):301–325, January 2001. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://www3.oup.co.uk/imanum/hdb/Volume_21/Issue_01/210301.sgm.abs.html`; `http://www3.oup.co.uk/imanum/hdb/Volume_21/Issue_01/pdf/210301.pdf`.

Asharabi:2016:TDC

[152] R. M. Asharabi and J. Prestin. On two-dimensional classical and Hermite sampling. *IMA Journal of Numerical Analysis*, 36(2):851–871, April 2016. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/36/2/851`.

Asheim:2013:CGQ

[153] Andreas Asheim and Daan Huybrechs. Complex Gaussian quadrature for oscillatory integral transforms. *IMA Journal of Numerical Analysis*, 33(4):1322–1341, October 2013. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/33/4/1322.full.pdf+html`.

Ashton:2025:CDL

[154] Anthony Ashton. Cauchy data for Levin's method. *IMA Journal of Numerical Analysis*, 45(1):87–125, January 2025. CODEN IJNADH. ISSN

0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/45/1/87/7587506.

Asl:2021:ALM

[155] Azam Asl and Michael L. Overton. Analysis of limited-memory BFGS on a class of nonsmooth convex functions. *IMA Journal of Numerical Analysis*, 41(1):1–27, January 2021. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/41/1/1/5706038.

Aston:1996:NMS

[156] Philip J. Aston and A. Ganesh Sittampalam. Numerical methods for steady-state mode interactions. *IMA Journal of Numerical Analysis*, 16(3):435–456, July 1996. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_16/Issue_03/160435.sgm.abs.html.

Atkinson:1984:NSL

[157] K. Atkinson and F. de Hoog. The numerical solution of Laplace's equation on a wedge. *IMA Journal of Numerical Analysis*, 4(1):19–41, January 1984. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Atkinson:1993:DCM

[158] K. Atkinson and J. Flores. The discrete collocation method for nonlinear integral equations. *IMA Journal of Numerical Analysis*, 13(2):195–213, 1993. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Atkinson:1985:NEP

[159] K. E. Atkinson. The numerical evaluation of particular solutions for Poisson's equation. *IMA Journal of Numerical Analysis*, 5(3):319–338, 1985. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Atkinson:1989:DGM

[160] K. E. Atkinson and F. A. Potra. On the discrete Galerkin method for Fredholm integral equations of the second kind. *IMA Journal of Numerical Analysis*, 9(3):385–403, 1989. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Atkinson:2000:PRE

[161] Kendall Atkinson. The planar radiosity equation and its numerical solution. *IMA Journal of Numerical Analysis*, 20(2):303–332, April 2000. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_20/Issue_02/200303.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_20/Issue_02/pdf/200303.pdf.

Atkinson:1994:NSN

[162] Kendall E. Atkinson. The numerical solution of a non-linear boundary integral equation on smooth surfaces. *IMA Journal of Numerical Analysis*, 14(4):461–483, 1994. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Austin:2017:NSS

[163] Anthony P. Austin and Kuan Xu. On the numerical stability of the second barycentric formula for trigono-

metric interpolation in shifted equispaced points. *IMA Journal of Numerical Analysis*, 37(3):1355–1374, July 1, 2017. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `https://academic.oup.com/imajna/article/37/3/1355/2670026/On-the-numerical-stability-of-the-second`.

Awanou:2015:SFE

[164] Gerard Awanou. Standard finite elements for the numerical resolution of the elliptic Monge–Ampère equation: classical solutions. *IMA Journal of Numerical Analysis*, 35(3):1150–1166, July 2015. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/35/3/1150`.

Axelsson:1981:SEE

[165] O. Axelsson. Stability and error estimates of Galerkin finite element approximations for convection-diffusion equations. *IMA Journal of Numerical Analysis*, 1(3):329–345, 1981. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Axelsson:1997:MPP

[166] O. Axelsson, Yu. R. Hakopian, and Yu. A. Kuznetsov. Multilevel preconditioning for perturbed finite element matrices. *IMA Journal of Numerical Analysis*, 17(1):125–149, January 1997. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://www3.oup.co.uk/imanum/hdb/Volume_17/Issue_01/170125.sgm.abs.html`.

Ayuso:2007:IAM

[167] Blanca Ayuso, Javier de Frutos, and Julia Novo. Improving the accuracy of the mini-element approximation to Navier–Stokes equations. *IMA Journal of Numerical Analysis*, 27(1):198–218, January 2007. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/cgi/content/abstract/27/1/198; http://imajna.oxfordjournals.org/cgi/reprint/27/1/198`.

Azaiez:2008:MSE

[168] M. Azaïez, F. Ben Belgacem, C. Bernardi, and M. El Rhabi. The mortar spectral element method in domains of operators. Part II: the curl operator and the vector potential problem. *IMA Journal of Numerical Analysis*, 28(1):106–120, January 2008. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/cgi/content/abstract/28/1/106; http://imajna.oxfordjournals.org/cgi/reprint/28/1/106`.

Azaiez:2006:MSE

[169] M. Azaïez, F. Ben Belgacem, and C. Bernardi. The mortar spectral element method in domains of operators. Part I: The divergence operator and Darcy's equations. *IMA Journal of Numerical Analysis*, 26(1):131–154, January 2006. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imanum.oxfordjournals.org/cgi/content/abstract/26/1/131; http://imanum.oxfordjournals.org/cgi/reprint/26/1/131`.

Azmi:2022:CMI

[170] Behzad Azmi and Karl Kunisch. On the convergence and mesh-independent property of the Barzilai–Borwein method for PDE-constrained optimization. *IMA Journal of Numerical Analysis*, 42(4):2984–3021, October 2022. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/42/4/2984/6340562`.

Aznaran:2025:FEM

[171] Francis R A Aznaran, Patrick E Farrell, Charles W Monroe, and Alexander J Van-Brunt. Finite element methods for multicomponent convection–diffusion. *IMA Journal of Numerical Analysis*, 45 (1):188–222, January 2025. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/45/1/188/7657984`.

Baart:1982:UAC

[172] M. L. Baart. The use of autocorrelation for pseudorank determination in noisy ill-conditioned linear least-squares problems. *IMA Journal of Numerical Analysis*, 2(2):241–247, April 1982. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Baart:1986:QTT

[173] M. L. Baart and R. J. Y. McLeod. Quadratic transformations of triangular finite elements in two dimensions. *IMA Journal of Numerical Analysis*, 6(4):475–487, 1986. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Babolian:1981:FGS

[174] E. Babolian and L. M. Delves. A fast Galerkin scheme for linear integro-differential equations. *IMA Journal of Numerical Analysis*, 1(2):193–213, 1981. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Bachmayr:2018:PPS

[175] Markus Bachmayr, Albert Cohen, and Wolfgang Dahmen. Parametric PDEs: sparse or low-rank approximations? *IMA Journal of Numerical Analysis*, 38(4):1661–1708, October 16, 2018. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/38/4/1661/4159528`.

Bachmayr:2023:MRI

[176] Markus Bachmayr and Ana Djurdjevac. Multilevel representations of isotropic Gaussian random fields on the sphere. *IMA Journal of Numerical Analysis*, 43(4):1970–2000, July 2023. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/43/4/1970/6671229`.

Badea:2004:SNM

[177] Lori Badea. On the Schwarz-Neumann method with an arbitrary number of domains. *IMA Journal of Numerical Analysis*, 24(2): 215–238, April 2004. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://www3.oup.co.uk/imanum/hdb/Volume_24/Issue_02/240215.sgm.abs.html`; `http://www3.oup.co.uk/imanum/hdb/Volume_24/Issue_02/pdf/240215.pdf`.

Badea:2014:GCR

[178] Lori Badea. Global convergence rate of a standard multigrid method for variational inequalities. *IMA Journal of Numerical Analysis*, 34(1):197–216, January 2014. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/34/1/197.full.pdf+html.

Badia:2014:EAD

[179] S. Badia, R. Codina, T. Gudi, and J. Guzmán. Error analysis of discontinuous Galerkin methods for the Stokes problem under minimal regularity. *IMA Journal of Numerical Analysis*, 34(2):800–819, April 2014. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/34/2/800.full.pdf+html.

Badia:2014:CTW

[180] Santiago Badia and Juan Vicente Gutiérrez-Santacreu. Convergence towards weak solutions of the Navier–Stokes equations for a finite element approximation with numerical subgrid-scale modelling. *IMA Journal of Numerical Analysis*, 34(3):1193–1221, July 2014. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/34/3/1193.

Bai:2023:CLR

[181] Genming Bai, Buyang Li, and Yifei Wu. A constructive low-regularity integrator for the one-dimensional cubic nonlinear Schrödinger equation under Neumann boundary condition. *IMA Journal of Numerical Analysis*, 43(6):3243–3281, November 2023. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/43/6/3243/6881699.

Bai:2018:WMS

[182] Jiejing Bai, Chun Li, and Xiao-Yan Liu. Weak multi-symplectic reformulation and geometric numerical integration for the nonlinear Schrödinger equations with delta potentials. *IMA Journal of Numerical Analysis*, 38(1):399–429, January 25, 2018. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/38/1/399/3070515.

Bai:2003:RPC

[183] Journal Zhong-Zhi Bai and Gui-Qing Li. Restrictively preconditioned conjugate gradient methods for systems of linear equations. *IMA Journal of Numerical Analysis*, 23(4):561–580, October 2003. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_23/Issue_04/230561.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_23/Issue_04/pdf/230561.pdf.

Bai:1994:NBG

[184] Zhaojun Bai, D. Hu, and L. Reichel. A Newton basis GMRES implementation. *IMA Journal of Numerical Analysis*, 14(4):563–581, 1994. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Bai:1998:MCM

[185] Zhong-Zhi Bai. On the monotone convergence of matrix multisplitting relaxation methods for the linear complementarity problem. *IMA Journal of Numerical Analysis*, 18(4):509–518, October 1998. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_18/Issue_04/180509.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_18/Issue_04/pdf/180509.pdf.

Bai:2019:RHI

[186] Zhong-Zhi Bai. Regularized HSS iteration methods for stabilized saddle-point problems. *IMA Journal of Numerical Analysis*, 39(4):1888–1923, October 2019. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/39/4/1888/5062724.

Bai:2013:PMI

[187] Zhong-Zhi Bai, Michele Benzi, Fang Chen, and Zeng-Qi Wang. Preconditioned MHSS iteration methods for a class of block two-by-two linear systems with applications to distributed control problems. *IMA Journal of Numerical Analysis*, 33(1):343–369, January 2013. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/33/1/343.full.pdf+html.

Bai:2007:AHS

[188] Zhong-Zhi Bai and Gene H. Golub. Accelerated Hermitian and skew-Hermitian splitting iteration methods for saddle-point problems. *IMA Journal of Numerical Analysis*, 27(1):1–23, January 2007. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/cgi/content/abstract/27/1/1; http://imajna.oxfordjournals.org/cgi/reprint/27/1/1.

Baker:2008:ITR

[189] C. G. Baker, P.-A. Absil, and K. A. Gallivan. An implicit trust-region method on Riemannian manifolds. *IMA Journal of Numerical Analysis*, 28(4):665–689, October 2008. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/cgi/content/abstract/28/4/665.

Baker:1993:CSQ

[190] C. T. H. Baker and M. S. Derakhshan. Convergence and stability of quadrature methods applied to Volterra equations with delay. *IMA Journal of Numerical Analysis*, 13(1):67–91, 1993. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Baker:1991:SAB

[191] Christopher T. H. Baker and Neville J. Ford. Some applications of the boundary-locus method and the method of *D*-partitions. *IMA Journal of Numerical Analysis*, 11(2):143–158, 1991. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Baker:1994:CSR

[192] Christopher T. H. Baker and Christopher A. H. Paul. Computing stability regions — Runge–Kutta meth-

ods for delay differential equations. *IMA Journal of Numerical Analysis*, 14(3):347–362, 1994. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Baker:2022:NAW

[193] Katherine Baker and Lehel Banjai. Numerical analysis of a wave equation for lossy media obeying a frequency power law. *IMA Journal of Numerical Analysis*, 42(3):2083–2117, July 2022. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/42/3/2083/6272089.

Baker:1999:SCS

[194] M. D. Baker, E. Süli, and A. F. Ware. Stability and convergence of the spectral Lagrange–Galerkin method for mixed periodic/non-periodic convection-dominated diffusion problems. *IMA Journal of Numerical Analysis*, 19(4):637–663, October 1999. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_19/Issue_04/190637.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_19/Issue_04/pdf/190637.pdf.

Bakhvalov:2024:LSS

[195] Pavel Bakhvalov and Mikhail Surnachev. Linear schemes with several degrees of freedom for the transport equation and the long-time simulation accuracy. *IMA Journal of Numerical Analysis*, 44(1):297–396, January 2024. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/44/1/297/7074504.

Bakke:1992:SAM

[196] V. L. Bakke and Z. Jackiewicz. Stability analysis of multilag and modified multilag methods for Volterra integrodifferential equations. *IMA Journal of Numerical Analysis*, 12(2):243–257, 1992. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Balci:2025:EAC

[197] Anna Kh Balci and Alex Kaltenbach. Error analysis for a Crouzeix–Raviart approximation of the variable exponent Dirichlet problem. *IMA Journal of Numerical Analysis*, 45(2):1102–1142, March 2025. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/45/2/1102/7687813.

Ball:1983:IBP

[198] A. A. Ball. The improved bicubic patch—natural surface counterpart of the parametric cubic segment. *IMA Journal of Numerical Analysis*, 3(3):373–379, 1983. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Banas:2014:CFE

[199] Lŭbomír Baňas, Zdzislaw Brzeźniak, Mikhail Neklyudov, and Andreas Prohl. A convergent finite-element-based discretization of the stochastic Landau–Lifshitz–Gilbert equation. *IMA Journal of Numerical Analysis*, 34(2):502–549, April 2014. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (elec-

tronic). URL http://imajna.oxfordjournals.org/content/34/2/502.full.pdf+html.

Banas:2024:NAS

[200] Lubomír Baňas, Benjamin Gess, and Christian Vieth. Numerical approximation of singular-degenerate parabolic stochastic partial differential equations. *IMA Journal of Numerical Analysis*, 44(4):2090–2137, July 2024. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/44/4/2090/7246243.

Banas:2021:NAN

[201] Lubomír Banas, Robert Lasarzik, and Andreas Prohl. Numerical analysis for nematic electrolytes. *IMA Journal of Numerical Analysis*, 41(3):2186–2254, July 2021. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/41/3/2186/6030375.

Banas:2014:DUC

[202] Lubomír Banas, Marcus Page, Dirk Praetorius, and Jonathan Rochat. A decoupled and unconditionally convergent linear FEM integrator for the Landau–Lifshitz–Gilbert equation with magnetostriction. *IMA Journal of Numerical Analysis*, 34(4):1361–1385, October 2014. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/34/4/1361.

Banjai:2014:TDD

[203] Lehel Banjai. Time-domain Dirichlet-to-Neumann map and its discretization. *IMA Journal of Numerical Analysis*, 34(3):1136–1155, July 2014. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/34/3/1136.

Banjai:2008:HMT

[204] Lehel Banjai and Wolfgang Hackbusch. Hierarchical matrix techniques for low- and high-frequency Helmholtz problems. *IMA Journal of Numerical Analysis*, 28(1):46–79, January 2008. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/cgi/content/abstract/28/1/46; http://imajna.oxfordjournals.org/cgi/reprint/28/1/46.

Banjai:2015:FDK

[205] Lehel Banjai, Antonio R. Laliena, and Francisco-Javier Sayas. Fully discrete Kirchhoff formulas with CQ-BEM. *IMA Journal of Numerical Analysis*, 35(2):859–884, April 2015. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/35/2/859.2.

Banjai:2019:RKC

[206] Lehel Banjai and Christian Lubich. Runge–Kutta convolution coercivity and its use for time-dependent boundary integral equations. *IMA Journal of Numerical Analysis*, 39(3):1134–1157, July 2019. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://

academic.oup.com/imajna/article/39/3/1134/5032994.

Banjai:2022:TDA

[207] Lehel Banjai, Christian Lubich, and Jörg Nick. Time-dependent acoustic scattering from generalized impedance boundary conditions via boundary elements and convolution quadrature. *IMA Journal of Numerical Analysis*, 42(1):1–26, January 2022. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/42/1/1/6064175.

Banjai:2023:EHF

[208] Lehel Banjai, Jens M. Melenk, and Christoph Schwab. *hp*-FEM for reaction-diffusion equations. II: robust exponential convergence for multiple length scales in corner domains. *IMA Journal of Numerical Analysis*, 43(6):3282–3325, November 2023. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/43/6/3282/6873557.

Banjai:2012:PMM

[209] Lehel Banjai and Daniel Peterseim. Parallel multistep methods for linear evolution problems. *IMA Journal of Numerical Analysis*, 32(3):1217–1240, July 2012. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/32/3/1217.full.pdf+html.

Bansal:2021:STD

[210] Pratyuksh Bansal, Andrea Moiola, Ilaria Perugia, and Christoph Schwab. Space-time discontinuous Galerkin approximation of acoustic waves with point singularities. *IMA Journal of Numerical Analysis*, 41(3):2056–2109, July 2021. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/41/3/2056/6015840.

Bansch:2019:PET

[211] Eberhard Bänsch and Andreas Brenner. A posteriori estimates for the two-step backward differentiation formula and discrete regularity for the time-dependent Stokes equations. *IMA Journal of Numerical Analysis*, 39(2):713–759, April 2019. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/39/2/713/4961331.

Bansch:2020:MFE

[212] Eberhard Bänsch and Markus Gahn. A mixed finite-element method for elliptic operators with wentzell boundary condition. *IMA Journal of Numerical Analysis*, 40(1):87–108, January 2020. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/40/1/87/5123806.

Bao:2024:MSA

[213] Jianhai Bao, Christoph Reisinger, Panpan Ren, and Wolfgang Stockinger. Milstein schemes and antithetic multilevel Monte Carlo sampling for delay McKean–Vlasov equations and interacting particle systems. *IMA Journal of Numerical Analysis*, 44(4):2437–2479, July 2024. CODEN IJNADH. ISSN 0272-4979 (print),

1464-3642 (electronic). URL http://academic.oup.com/imajna/article/44/4/2437/7258846.

Bao:2003:EBF

[214] Weizhu Bao. Error bounds for the finite-element approximation of the exterior Stokes equations in two dimensions. *IMA Journal of Numerical Analysis*, 23(1):125–148, January 2003. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_23/Issue_01/230125.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_23/Issue_01/pdf/230125.pdf.

Bao:2024:IUE

[215] Weizhu Bao, Yongyong Cai, and Yue Feng. Improved uniform error bounds on time-splitting methods for the long-time dynamics of the weakly nonlinear Dirac equation. *IMA Journal of Numerical Analysis*, 44(2):654–679, March 2024. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/44/2/654/7175097.

Barbeiro:2005:SFD

[216] S. Barbeiro, J. A. Ferreira, and R. D. Grigorieff. Supraconvergence of a finite difference scheme for solutions in $H^s(0,L)$. *IMA Journal of Numerical Analysis*, 25(4):797–811, October 2005. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imanum.oxfordjournals.org/cgi/reprint/25/4/797.

Barboteu:2002:NAB

[217] Mikäel Barboteu, Weimin Han, and Mircea Sofonea. Numerical analysis of a bilateral frictional contact problem for linearly elastic materials. *IMA Journal of Numerical Analysis*, 22(3):407–436, July 2002. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_22/Issue_03/220407.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_22/Issue_03/pdf/220407.pdf.

Barnhill:1981:CFE

[218] R. E. Barnhill, J. H. Brown, and A. R. Mitchell. A comparison of finite element error bounds for Poisson's equation. *IMA Journal of Numerical Analysis*, 1(1):95–103, 1981. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Barrenechea:2024:CIP

[219] Gabriel R. Barrenechea, Erik Burman, Ernesto Cáceres, and Johnny Guzmán. Continuous interior penalty stabilization for divergence-free finite element methods. *IMA Journal of Numerical Analysis*, 44(2):980–1002, March 2024. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/44/2/980/7179402.

Barrenechea:2019:TDS

[220] Gabriel R. Barrenechea, Ernesto Castillo, and Ramon Codina. Time-dependent semidiscrete analysis of the viscoelastic fluid flow problem using a variational multiscale stabilized formulation. *IMA Journal of Numerical Analysis*, 39(2):792–819, April 2019.

CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/39/2/792/4964962.

Barrenechea:2024:NBP

[221] Gabriel R. Barrenechea, Emmanuil H. Georgoulis, Tristan Pryer, and Andreas Veeser. A nodally bound-preserving finite element method. *IMA Journal of Numerical Analysis*, 44 (4):2198–2219, July 2024. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/44/4/2198/7250438.

Barrenechea:2015:SAR

[222] Gabriel R. Barrenechea, Volker John, and Petr Knobloch. Some analytical results for an algebraic flux correction scheme for a steady convection-diffusion equation in one dimension. *IMA Journal of Numerical Analysis*, 35(4):1729–1756, October 2015. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/35/4/1729.

Barrenechea:2020:ISS

[223] Gabriel R. Barrenechea and Andreas Wachtel. The inf–sup stability of the lowest order Taylor–Hood pair on affine anisotropic meshes. *IMA Journal of Numerical Analysis*, 40(4): 2377–2398, October 2020. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/40/4/2377/5526934.

Barrett:1988:ORFb

[224] J. W. Barrett, G. Moore, and K. W. Morton. Optimal recovery in the finite-element method. I. Recovery from weighted L^2 fits. *IMA Journal of Numerical Analysis*, 8(2):149–184, 1988. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Barrett:1988:ORFa

[225] J. W. Barrett, G. Moore, and K. W. Morton. Optimal recovery in the finite-element method. II. Defect correction for ordinary differential equations. *IMA Journal of Numerical Analysis*, 8(4): 527–540, October 1988. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Barrett:1981:OPG

[226] J. W. Barrett and K. W. Morton. Optimal Petrov–Galerkin methods through approximate symmetrization. *IMA Journal of Numerical Analysis*, 1(4):439–468, 1981. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Barrett:2004:CFE

[227] J. W. Barrett and R. Nürnberg. Convergence of a finite-element approximation of surfactant spreading on a thin film in the presence of van der Waals forces. *IMA Journal of Numerical Analysis*, 24(2): 323–363, April 2004. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_24/Issue_02/240323.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_24/Issue_02/pdf/240323.pdf.

Barrett:1996:EBF

[228] John W. Barrett and James F. Blowey. An error bound for the finite element approximation of a model for phase separation of a multi-component alloy. *IMA Journal of Numerical Analysis*, 16 (2):257–287, April 1996. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_16/Issue_02/160257.sgm.abs.html.

Barrett:1998:FEA

[229] John W. Barrett and James F. Blowey. Finite element approximation of a model for phase separation of a multi-component alloy with a concentration-dependent mobility matrix. *IMA Journal of Numerical Analysis*, 18(2): 287–328, April 1998. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_18/Issue_02/180287.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_18/Issue_02/pdf/180287.pdf.

Barrett:1999:IEB

[230] John W. Barrett and James F. Blowey. An improved error bound for a finite element approximation of a model for phase separation of a multi-component alloy. *IMA Journal of Numerical Analysis*, 19(1):147–168, January 1999. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_19/Issue_01/190147.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_19/Issue_01/pdf/190147.pdf.

Barrett:2002:FEA

[231] John W. Barrett and James F. Blowey. Finite element approximation of an Allen–Cahn/Cahn–Hilliard system. *IMA Journal of Numerical Analysis*, 22 (1):11–71, January 2002. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_22/Issue_01/220011.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_22/Issue_01/pdf/220011.pdf.

Barrett:2018:CFE

[232] John W. Barrett and Sébastien Boyaval. Corrigendum to: Finite element approximation of the FENE-P model. *IMA Journal of Numerical Analysis*, 38(4):2166–2168, October 16, 2018. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/38/4/2166/5052138. See [233].

Barrett:2018:FEA

[233] John W. Barrett and Sébastien Boyaval. Finite element approximation of the FENE-P model. *IMA Journal of Numerical Analysis*, 38(4):1599–1660, October 16, 2018. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/38/4/1599/4561632. See corrigendum [232].

Barrett:1991:FEA

[234] John W. Barrett, Roma Chakrabarti, and Charles M. Elliott. Finite element approximation of a rigid punch indenting a membrane. *IMA Journal*

of Numerical Analysis, 11(4):579–594, 1991. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Barrett:2021:FEE

[235] John W. Barrett, Klaus Deckelnick, and Robert Nürnberg. A finite element error analysis for axisymmetric mean curvature flow. *IMA Journal of Numerical Analysis*, 41(3): 1641–1667, July 2021. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/41/3/1641/5865040`.

Barrett:2021:PPF

[236] John W. Barrett, Klaus Deckelnick, and Vanessa Styles. A practical phase field method for an elliptic surface PDE. *IMA Journal of Numerical Analysis*, 41(3):1668–1695, July 2021. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/41/3/1668/5893597`.

Barrett:1984:FEM

[237] John W. Barrett and Charles M. Elliott. A finite-element method for solving elliptic equations with Neumann data on a curved boundary using unfitted meshes. *IMA Journal of Numerical Analysis*, 4(3):309–325, July 1984. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Barrett:1986:TFE

[238] John W. Barrett and Charles M. Elliott. Total flux estimates for a finite-element approximation of parabolic equations. *IMA Journal of Numerical Analysis*, 6(3):253–264, 1986. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Barrett:1987:FUF

[239] John W. Barrett and Charles M. Elliott. Fitted and unfitted finite-element methods for elliptic equations with smooth interfaces. *IMA Journal of Numerical Analysis*, 7(3):283–300, 1987. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Barrett:1987:TFE

[240] John W. Barrett and Charles M. Elliott. Total flux estimates for a finite-element approximation of elliptic equations. *IMA Journal of Numerical Analysis*, 7(2):129–148, 1987. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Barrett:1988:FEA

[241] John W. Barrett and Charles M. Elliott. Finite-element approximation of elliptic equations with a Neumann or Robin condition on a curved boundary. *IMA Journal of Numerical Analysis*, 8(3):321–342, 1988. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Barrett:1989:FEA

[242] John W. Barrett and Charles M. Elliott. Finite-element approximation of a plasma equilibrium problem. *IMA Journal of Numerical Analysis*, 9(4):443–464, 1989. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Barrett:2008:NAA

[243] John W. Barrett, Harald Garcke, and Robert Nürnberg. Numerical approxi-

mation of anisotropic geometric evolution equations in the plane. *IMA Journal of Numerical Analysis*, 28(2):292–330, April 2008. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/cgi/content/abstract/28/2/292; http://imajna.oxfordjournals.org/cgi/reprint/28/2/292.

Barrett:2010:NAG

[244] John W. Barrett, Harald Garcke, and Robert Nürnberg. Numerical approximation of gradient flows for closed curves in *d*. *IMA Journal of Numerical Analysis*, 30(1):4–60, January 2010. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/cgi/content/abstract/30/1/4; http://imajna.oxfordjournals.org/cgi/reprint/30/1/4.

Barrett:2014:SPF

[245] John W. Barrett, Harald Garcke, and Robert Nürnberg. Stable phase field approximations of anisotropic solidification. *IMA Journal of Numerical Analysis*, 34(4):1289–1327, October 2014. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/34/4/1289.

Barrett:2017:SVA

[246] John W. Barrett, Harald Garcke, and Robert Nürnberg. Stable variational approximations of boundary value problems for Willmore flow with Gaussian curvature. *IMA Journal of Numerical Analysis*, 37(4):1657–1709, October 1, 2017. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL https://academic.oup.com/imajna/article/37/4/1657/3063839.

Barrett:2020:NAC

[247] John W. Barrett, Harald Garcke, and Robert Nürnberg. Numerical approximation of curve evolutions in Riemannian manifolds. *IMA Journal of Numerical Analysis*, 40(3):1601–1651, July 2020. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/40/3/1601/5368988.

Barrett:2015:SSN

[248] John W. Barrett and Leonid Prigozhin. Sandpiles and superconductors: nonconforming linear finite element approximations for mixed formulations of quasi-variational inequalities. *IMA Journal of Numerical Analysis*, 35(1):1–38, January 2015. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/35/1/1.

Barrett:2009:NAC

[249] John W. Barrett and Endre Süli. Numerical approximation of corotational dumbbell models for dilute polymers. *IMA Journal of Numerical Analysis*, 29(4):937–959, October 2009. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/cgi/content/abstract/29/4/937; http://imajna.

oxfordjournals.org/cgi/reprint/29/4/937.

Barrios:2010:PPE

[250] Tomás P. Barrios and Rommel Bustinza. A priori and a posteriori error analyses of an augmented discontinuous Galerkin formulation. *IMA Journal of Numerical Analysis*, 30(4):987–1008, October 2010. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/30/4/987.full.pdf+html.

Bartels:2013:SSA

[251] Sören Bartels. A simple scheme for the approximation of the elastic flow of inextensible curves. *IMA Journal of Numerical Analysis*, 33(4):1115–1125, October 2013. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/33/4/1115.full.pdf+html.

Bartels:2016:BSS

[252] Sören Bartels. Broken Sobolev space iteration for total variation regularized minimization problems. *IMA Journal of Numerical Analysis*, 36(2):493–502, April 2016. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/36/2/493.

Bartels:2016:SSA

[253] Sören Bartels. A simple scheme for the approximation of elastic vibrations of inextensible curves. *IMA Journal of Numerical Analysis*, 36(3):1051–1071, July 2016. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/36/3/1051.

Bartels:2021:SCE

[254] Sören Bartels. Simulation of constrained elastic curves and application to a conical sheet indentation problem. *IMA Journal of Numerical Analysis*, 41(3):2255–2279, July 2021. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/41/3/2255/6148813.

Bartels:2024:EEL

[255] Sören Bartels, Andrea Bonito, and Philipp Tscherner. Error estimates for a linear folding model. *IMA Journal of Numerical Analysis*, 44 (1):1–23, January 2024. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/44/1/1/7057974.

Bartels:2024:EAN

[256] Sören Bartels, Balázs Kovács, and Zhangxian Wang. Error analysis for the numerical approximation of the harmonic map heat flow with nodal constraints. *IMA Journal of Numerical Analysis*, 44(2):633–653, March 2024. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/44/2/633/7192243.

Bartels:2022:SGF

[257] Sören Bartels and Christian Palus. Stable gradient flow discretizations for simulating bilayer plate bending with isometry and obstacle constraints. *IMA*

Journal of Numerical Analysis, 42 (3):1903–1928, July 2022. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/42/3/1903/6318669.

Bartels:2018:SSA

[258] Sören Bartels, Philipp Reiter, and Johannes Riege. A simple scheme for the approximation of self-avoiding inextensible curves. *IMA Journal of Numerical Analysis*, 38(2):543–565, April 18, 2018. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/38/2/543/3829872.

Bartholomew-Biggs:1988:GCV

[259] M. C. Bartholomew-Biggs. A globally convergent version of REQP for constrained minimization. *IMA Journal of Numerical Analysis*, 8(2):253–271, 1988. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Barucq:2021:SDW

[260] Hélène Barucq, M'Barek Fares, Carola Kruse, and Sébastien Tordeux. Sparsified discrete wave problem involving a radiation condition on a prolate spheroidal surface. *IMA Journal of Numerical Analysis*, 41(1):315–343, January 2021. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/41/1/315/5627734.

Barzilai:1988:TPS

[261] Jonathan Barzilai and Jonathan M. Borwein. Two-point step size gradient methods. *IMA Journal of Numerical Analysis*, 8(1):141–148, 1988. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Bauermeister:2010:FEA

[262] Norbert Bauermeister and Simon Shaw. Finite-element approximation of non-Fickian polymer diffusion. *IMA Journal of Numerical Analysis*, 30(3): 702–730, July 2010. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/cgi/content/abstract/30/3/702; http://imajna.oxfordjournals.org/cgi/reprint/30/3/702.

Bause:2005:OCR

[263] Markus Bause. On optimal convergence rates for higher-order Navier–Stokes approximations. I. Error estimates for the spatial discretization. *IMA Journal of Numerical Analysis*, 25 (4):812–841, October 2005. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imanum.oxfordjournals.org/cgi/reprint/25/4/812.

Beatson:1997:FER

[264] R. K. Beatson and W. A. Light. Fast evaluation of radial basis functions: methods for two-dimensional polyharmonic splines. *IMA Journal of Numerical Analysis*, 17(3): 343–372, July 1997. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_17/Issue_03/170343.sgm.abs.html.

Beatson:1992:UIR

[265] R. K. Beatson and M. J. D. Powell.

Univariate interpolation on a regular finite grid by a multiquadric plus a linear polynomial. *IMA Journal of Numerical Analysis*, 12(1):107–133, 1992. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Beatson:2007:FEP

[266] R. K. Beatson, M. J. D. Powell, and A. M. Tan. Fast evaluation of polyharmonic splines in three dimensions. *IMA Journal of Numerical Analysis*, 27(3): 427–450, July 2007. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/cgi/content/abstract/27/3/427; http://imajna.oxfordjournals.org/cgi/reprint/27/3/427.

Beatson:2014:PCS

[267] R. K. Beatson, Wolfgang zu Castell, and Yuan Xu. A Pólya criterion for (strict) positive-definiteness on the sphere. *IMA Journal of Numerical Analysis*, 34(2):550–568, April 2014. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/34/2/550.full.pdf+html.

Behforooz:1981:ECI

[268] G. H. Behforooz and N. Papamichael. End conditions for interpolatory quintic splines. *IMA Journal of Numerical Analysis*, 1(1):81–93, 1981. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Behie:1983:CFI

[269] A. Behie and P. Forsyth, Jr. Comparison of fast iterative methods for symmetric systems. *IMA Journal of Numerical Analysis*, 3(1):41–63, 1983. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Behringer:2023:FDB

[270] Niklas Behringer, Boris Vexler, and Dmitriy Leykekhman. Fully discrete best-approximation-type estimates in $L^\infty(I;L^2(\Omega)^d)$ for finite element discretizations of the transient Stokes equations. *IMA Journal of Numerical Analysis*, 43(2):852–880, March 2023. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/43/2/852/6573334.

BeiraodaVeiga:2024:AVV

[271] L. Beirão da Veiga, C. Canuto, R. H. Nochetto, G. Vacca, and M. Verani. Adaptive VEM for variable data: convergence and optimality. *IMA Journal of Numerical Analysis*, 44(5):2553–2602, September 2024. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/44/5/2553/7410312.

daVeiga:2024:PRS

[272] L. Beirão da Veiga, F. Dassi, and G. Vacca. Pressure robust SUPG-stabilized finite elements for the unsteady Navier–Stokes equation. *IMA Journal of Numerical Analysis*, 44 (2):710–750, March 2024. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/44/2/710/7151085. See erratum [712].

daVeiga:2025:CSV

[273] L Beirão da Veiga, C Lovadina, and M Trezzi. CIP-stabilized virtual elements for diffusion–convection–reaction problems. *IMA Journal of Numerical Analysis*, 45(2):934–970, March 2025. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/45/2/934/7685736.

Beiser:2023:ASS

[274] Florian Beiser, Brendan Keith, Simon Urbainczyk, and Barbara Wohlmuth. Adaptive sampling strategies for risk-averse stochastic optimization with constraints. *IMA Journal of Numerical Analysis*, 43(6):3729–3765, November 2023. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/43/6/3729/6991354.

Belenki:2012:OAF

[275] Liudmila Belenki, Lars Diening, and Christian Kreuzer. Optimality of an adaptive finite element method for the p-Laplacian equation. *IMA Journal of Numerical Analysis*, 32(2):484–510, April 2012. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/32/2/484.full.pdf+html.

Belhachmi:2004:RPE

[276] Z. Belhachmi. Residual a posteriori error estimates for a 3D mortar finite-element method: the Stokes system. *IMA Journal of Numerical Analysis*, 24(3):521–547, July 2004. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_24/Issue_03/240521.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_24/Issue_03/pdf/240521.pdf.

Belhachmi:2006:FEA

[277] Zakaria Belhachmi, Dorin Bucur, and Jean-Marc Sac-Epee. Finite element approximation of the Neumann eigenvalue problem in domains with multiple cracks. *IMA Journal of Numerical Analysis*, 26(4):790–810, October 2006. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/cgi/content/abstract/26/4/790; http://imajna.oxfordjournals.org/cgi/reprint/26/4/790.

Bellavia:2015:SLC

[278] S. Bellavia and B. Morini. Strong local convergence properties of adaptive regularized methods for nonlinear least squares. *IMA Journal of Numerical Analysis*, 35(2):947–968, April 2015. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/35/2/947.

Bellavia:2021:ACR

[279] Stefania Bellavia, Gianmarco Gurioli, and Benedetta Morini. Adaptive cubic regularization methods with dynamic inexact Hessian information and applications to finite-sum minimization. *IMA Journal of Numerical Analysis*, 41(1):764–799, January 2021. CODEN IJNADH. ISSN 0272-4979 (print),

1464-3642 (electronic). URL http://academic.oup.com/imajna/article/41/1/764/5824083.

Bellavia:2020:SIN

[280] Stefania Bellavia, Natasa Krejić, and Natasa Krklec Jerinkić. Subsampled inexact Newton methods for minimizing large sums of convex functions. *IMA Journal of Numerical Analysis*, 40(4): 2309–2341, October 2020. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/40/4/2309/5528032.

Bellen:1990:SAR

[281] A. Bellen, Z. Jackiewicz, R. Vermiglio, and M. Zennaro. Stability analysis of Runge–Kutta methods for Volterra integral equations of the second kind. *IMA Journal of Numerical Analysis*, 10 (1):103–118, January 1990. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Bellen:2002:PSN

[282] Alfredo Bellen. Preservation of superconvergence in the numerical integration of delay differential equations with proportional delay. *IMA Journal of Numerical Analysis*, 22(4): 529–536, October 2002. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_22/Issue_04/220529.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_22/Issue_04/pdf/220529.pdf.

Bellettini:1996:NSM

[283] G. Bellettini and M. Paolini. Numerical simulations of measurements of capillary contact angles. *IMA Journal of Numerical Analysis*, 16(2): 165–178, April 1996. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_16/Issue_02/160165.sgm.abs.html.

Beltran:2011:ECN

[284] Carlos Beltrán. Estimates on the condition number of random rank-deficient matrices. *IMA Journal of Numerical Analysis*, 31(1):25–39, January 2011. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/31/1/25.full.pdf+html.

Beltran:2022:MVC

[285] Carlos Beltrán and Fátima Lizarte. On the minimum value of the condition number of polynomials. *IMA Journal of Numerical Analysis*, 42(4): 2959–2983, October 2022. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/42/4/2959/6374201.

Beltran:2024:WCF

[286] Carlos Beltrán, Vanni Noferini, and Nick Vannieuwenhoven. When can forward stable algorithms be composed stably? *IMA Journal of Numerical Analysis*, 44(2):886–919, March 2024. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/44/2/886/7181045.

Belward:1985:FSA

[287] J. A. Belward. Further studies of the application of constrained mini-

mization methods to Fredholm integral equations of the first kind. *IMA Journal of Numerical Analysis*, 5(2):125–139, 1985. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Ben-Artzi:2018:DFO

[288] Matania Ben-Artzi, Jean-Pierre Croisille, Dalia Fishelov, and Ron Katzir. Discrete fourth-order Sturm–Liouville problems. *IMA Journal of Numerical Analysis*, 38(3):1485–1522, July 17, 2018. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/38/3/1485/4084722.

Ben-Artzi:2021:FDA

[289] Matania Ben-Artzi and Benjamin Kramer. Finite difference approach to fourth-order linear boundary-value problems. *IMA Journal of Numerical Analysis*, 41(4):2530–2561, October 2021. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/41/4/2530/5900302.

BenBelgacem:2012:UCB

[290] Faker Ben Belgacem, Christine Bernardi, Adel Blouza, and Martin Vohralík. On the unilateral contact between membranes. Part 2: a posteriori analysis and numerical experiments. *IMA Journal of Numerical Analysis*, 32(3):1147–1172, July 2012. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/32/3/1147.full.pdf+html.

Bendali:2014:LAR

[291] Abderrahmane Bendali, Yassine Boubendir, and Nicolas Zerbib. Localized adaptive radiation condition for coupling boundary and finite element methods applied to wave propagation problems. *IMA Journal of Numerical Analysis*, 34(3):1240–1265, July 2014. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/34/3/1240.

Benitez:2022:PPS

[292] Marta Benítez and Bernardo Cockburn. Post-processing for spatial accuracy-enhancement of pure Lagrange–Galerkin schemes applied to convection-diffusion equations. *IMA Journal of Numerical Analysis*, 42(1):54–77, January 2022. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/42/1/54/5924597.

Benner:2022:LIE

[293] Peter Benner, Tony Stillfjord, and Christoph Trautwein. A linear implicit Euler method for the finite element discretization of a controlled stochastic heat equation. *IMA Journal of Numerical Analysis*, 42(3):2118–2150, July 2022. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/42/3/2118/6278491.

Benouahmane:2019:NMC

[294] Brahim Benouahmane, Cuyt Annie, and Irem Yaman. Near-minimal cu-

bature formulae on the disk. *IMA Journal of Numerical Analysis*, 39(1): 297–314, January 25, 2019. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/39/1/297/4718074.

Benzi:2008:BPR

[295] Michele Benzi and Daniele Bertaccini. Block preconditioning of real-valued iterative algorithms for complex linear systems. *IMA Journal of Numerical Analysis*, 28(3):598–618, July 2008. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/cgi/content/abstract/28/3/598; http://imajna.oxfordjournals.org/cgi/reprint/28/3/598.

Bergold:2024:GWP

[296] Paul Bergold and Caroline Lasser. The Gaussian wave packet transform via quadrature rules. *IMA Journal of Numerical Analysis*, 44 (3):1785–1820, May 2024. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/44/3/1785/7232245.

Bermejo:2010:SLG

[297] R. Bermejo and J. Carpio. A semi-Lagrangian–Galerkin projection scheme for convection equations. *IMA Journal of Numerical Analysis*, 30(3): 799–831, July 2010. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/cgi/content/abstract/30/3/799; http://imajna.oxfordjournals.org/cgi/reprint/30/3/799.

Bermejo:2025:HOL

[298] Rodolfo Bermejo and Manuel Colera. High-order Lagrange–Galerkin methods for the conservative formulation of the advection–diffusion equation. *IMA Journal of Numerical Analysis*, 45(2):843–893, March 2025. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/45/2/843/7675405.

Bermudez:2006:ASA

[299] A. Bermúdez, P. Gamallo, M. R. Nogueiras, and R. Rodríguez. Approximation of a structural acoustic vibration problem by hexahedral finite elements. *IMA Journal of Numerical Analysis*, 26(2):391–421, April 2006. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imanum.oxfordjournals.org/cgi/content/abstract/26/2/391; http://imanum.oxfordjournals.org/cgi/reprint/26/2/391.

Bermudez:1991:SSW

[300] A. Bermúdez, C. Rodríguez, and M. A. Vilar. Solving shallow water equations by a mixed implicit finite element method. *IMA Journal of Numerical Analysis*, 11(1):79–97, 1991. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Bermudez:2012:NST

[301] Alfredo Bermúdez, Bibiana López-Rodríguez, Rodolfo Rodríguez, and Pilar Salgado. Numerical solu-

tion of transient eddy current problems with input current intensities as boundary data. *IMA Journal of Numerical Analysis*, 32(3):1001–1029, July 2012. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/32/3/1001.full.pdf+html.

Bermudez:2010:NAF

[302] Alfredo Bermúdez, Carlos Reales, Rodolfo Rodríguez, and Pilar Salgado. Numerical analysis of a finite-element method for the axisymmetric eddy current model of an induction furnace. *IMA Journal of Numerical Analysis*, 30(3):654–676, July 2010. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/cgi/content/abstract/30/3/654; http://imajna.oxfordjournals.org/cgi/reprint/30/3/654.

BermudezdeCastroLopez:1982:MME

[303] A. Bermúdez de Castro López. A mixed method for the elastoplastic torsion problem. *IMA Journal of Numerical Analysis*, 2(3):325–334, July 1982. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Bernardi:1990:SGS

[304] Christine Bernardi, Claudio Canuto, Yvon Maday, and Brigitte Métivet. Single-grid spectral collocation for the Navier–Stokes equations. *IMA Journal of Numerical Analysis*, 10(2):253–297, 1990. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Bernardi:2014:PAS

[305] Christine Bernardi, Linda El Alaoui, and Zoubida Mghazli. A posteriori analysis of a space and time discretization of a nonlinear model for the flow in partially saturated porous media. *IMA Journal of Numerical Analysis*, 34(3):1002–1036, July 2014. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/34/3/1002.

Bernardi:2001:EIM

[306] Christine Bernardi, Nicolas Fiétier, and Robert G. Owens. An error indicator for mortar element solutions to the Stokes problem. *IMA Journal of Numerical Analysis*, 21(4):857–886, October 2001. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_21/Issue_04/210857.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_21/Issue_04/pdf/210857.pdf.

Bernardi:1992:MSE

[307] Christine Bernardi, Vivette Girault, and Yvon Maday. Mixed spectral element approximation of the Navier–Stokes equations in the stream-function and vorticity formulation. *IMA Journal of Numerical Analysis*, 12(4):565–608, 1992. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Bernardi:1987:MMT

[308] Christine Bernardi, Edwige Godlewski, and Geneviève Raugel. A mixed method for the time-dependent Navier–Stokes problem. *IMA Journal of Nu-

merical Analysis, 7(2):165–189, 1987. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Bernardi:2013:PAF

[309] Christine Bernardi, Frédéric Hecht, Hervé Le Dret, and Adel Blouza. A posteriori analysis of a finite element discretization of a Naghdi shell model. *IMA Journal of Numerical Analysis*, 33(1):190–211, January 2013. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/33/1/190.full.pdf+html.

Bernardi:2010:NFE

[310] Christine Bernardi, Frédéric Hecht, and Fatma Zohra Nouri. A new finite-element discretization of the Stokes problem coupled with the Darcy equations. *IMA Journal of Numerical Analysis*, 30(1):61–93, January 2010. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/cgi/content/abstract/30/1/61; http://imajna.oxfordjournals.org/cgi/reprint/30/1/61.

Bernardi:2016:SDD

[311] Christine Bernardi, Sarra Maarouf, and Driss Yakoubi. Spectral discretization of Darcy's equations coupled with the heat equation. *IMA Journal of Numerical Analysis*, 36(3):1193–1216, July 2016. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/36/3/1193.

Bernardi:2015:PEA

[312] Christine Bernardi and Toni Sayah. A posteriori error analysis of the time-dependent Stokes equations with mixed boundary conditions. *IMA Journal of Numerical Analysis*, 35(1):179–198, January 2015. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/35/1/179.

Bernkopf:2023:SDH

[313] Maximilian Bernkopf, Stefan Sauter, Céline Torres, and Alexander Veit. Solvability of discrete Helmholtz equations. *IMA Journal of Numerical Analysis*, 43(3):1802–1830, May 2023. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/43/3/1802/6653070.

Berrone:2008:TSP

[314] Stefano Berrone and Endre Süli. Two-sided a posteriori error bounds for incompressible quasi-Newtonian flows. *IMA Journal of Numerical Analysis*, 28(2):382–421, April 2008. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/cgi/content/abstract/28/2/382; http://imajna.oxfordjournals.org/cgi/reprint/28/2/382.

Berselli:2015:OEE

[315] Luigi C. Berselli, Lars Diening, and Michael Ruzicka. Optimal error estimate for semi-implicit space–time discretization for the equations describing incompressible generalized

Newtonian fluids. *IMA Journal of Numerical Analysis*, 35(2):680–697, April 2015. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/35/2/680.

Berselli:2022:STD

[316] Luigi C. Berselli and Michael Ruzicka. Space-time discretization for nonlinear parabolic systems with p-structure. *IMA Journal of Numerical Analysis*, 42 (1):260–299, January 2022. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/42/1/260/6042029.

Bersetche:2022:FEA

[317] Francisco M. Bersetche and Juan Pablo Borthagaray. Finite element approximation of fractional Neumann problems. *IMA Journal of Numerical Analysis*, 42(4):3207–3240, October 2022. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/42/4/3207/6365220.

Bertoluzza:2000:WSP

[318] Silvia Bertoluzza and Angela Kunoth. Wavelet stabilization and preconditioning for domain decomposition. *IMA Journal of Numerical Analysis*, 20(4):533–559, October 2000. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_20/Issue_04/200533.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_20/Issue_04/pdf/200533.pdf.

Bertrand:2022:FOL

[319] Fleurianne Bertrand and Daniele Boffi. First order least-squares formulations for eigenvalue problems. *IMA Journal of Numerical Analysis*, 42(2):1339–1363, April 2022. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/42/2/1339/6157011.

Bertrand:2025:NIS

[320] Fleurianne Bertrand and Daniele Boffi. On the necessity of the inf–sup condition for a mixed finite element formulation. *IMA Journal of Numerical Analysis*, 45(1):1–35, January 2025. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/45/1/1/7614496.

Berzins:1981:GCM

[321] M. Berzins and P. M. Dew. A generalized Chebyshev method for nonlinear parabolic equations in one space variable. *IMA Journal of Numerical Analysis*, 1(4):469–487, 1981. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Berzins:1987:NCM

[322] M. Berzins and P. M. Dew. A note on C^0 Chebyshev methods for parabolic P.D.E.s. *IMA Journal of Numerical Analysis*, 7(1):15–37, 1987. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Bespalov:2022:CRO

[323] Alex Bespalov, Dirk Praetorius, and Michele Ruggeri. Convergence and

rate optimality of adaptive multilevel stochastic Galerkin FEM. *IMA Journal of Numerical Analysis*, 42 (3):2190–2213, July 2022. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/42/3/2190/6277320`.

Bespalov:2010:VBE

[324] Alexei Bespalov and Norbert Heuer. The *hp* version of the boundary element method with quasi-uniform meshes for weakly singular operators on surfaces. *IMA Journal of Numerical Analysis*, 30(2):377–400, April 2010. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/cgi/content/abstract/30/2/377`; `http://imajna.oxfordjournals.org/cgi/reprint/30/2/377`.

Bespalov:2010:NBE

[325] Alexei Bespalov and Norbert Heuer. Natural p-BEM for the electric field integral equation on screens. *IMA Journal of Numerical Analysis*, 30(3):595–628, July 2010. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/cgi/content/abstract/30/3/595`; `http://imajna.oxfordjournals.org/cgi/reprint/30/3/595`.

Bessaih:2019:SCT

[326] Hakima Bessaih and Annie Millet. Strong $|L^2|$ convergence of time numerical schemes for the stochastic two-dimensional Navier–Stokes equations. *IMA Journal of Numerical Analysis*, 39 (4):2135–2167, October 2019. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/39/4/2135/5091944`.

Besse:2021:EPM

[327] Christophe Besse, Stéphane Descombes, Guillaume Dujardin, and Ingrid Lacroix-Violet. Energy-preserving methods for nonlinear Schrödinger equations. *IMA Journal of Numerical Analysis*, 41(1):618–653, January 2021. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/41/1/618/5836889`.

Besse:2017:DGF

[328] Nicolas Besse. Discontinuous Galerkin finite element methods for the gyrokinetic-waterbag equations. *IMA Journal of Numerical Analysis*, 37(2): 985–1040, April 2017. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `https://academic.oup.com/imajna/article/37/2/985/2669952/Discontinuous-Galerkin-finite-element-methods-for`.

Bessemoulin-Chatard:2015:DFI

[329] Marianne Bessemoulin-Chatard, Claire Chainais-Hillairet, and Francis Filbet. On discrete functional inequalities for some finite volume schemes. *IMA Journal of Numerical Analysis*, 35(3):1125–1149, July 2015. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/35/3/1125`.

Bessemoulin-Chatard:2014:FVS

[330] Marianne Bessemoulin-Chatard and Ansgar Jüngel. A finite volume scheme for a Keller–Segel model with additional cross-diffusion. *IMA Journal of Numerical Analysis*, 34(1):96–122, January 2014. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/34/1/96.full.pdf+html.

Betcke:2014:SDN

[331] T. Betcke, J. Phillips, and E. A. Spence. Spectral decompositions and nonnormality of boundary integral operators in acoustic scattering. *IMA Journal of Numerical Analysis*, 34(2):700–731, April 2014. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/34/2/700.full.pdf+html.

Betcke:2007:GFD

[332] Timo Betcke. A GSVD formulation of a domain decomposition method for planar eigenvalue problems. *IMA Journal of Numerical Analysis*, 27(3):451–478, July 2007. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/cgi/content/abstract/27/3/451; http://imajna.oxfordjournals.org/cgi/reprint/27/3/451.

Beyn:1990:NCC

[333] W.-J. Beyn. The numerical computation of connecting orbits in dynamical systems. *IMA Journal of Numerical Analysis*, 10(3):379–405, 1990. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Beyn:1994:NAH

[334] W.-J. Beyn. Numerical analysis of homoclinic orbits emanating from a Takens–Bogdanov point. *IMA Journal of Numerical Analysis*, 14(3):381–410, 1994. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Bi:2011:FVE

[335] Chunjia Bi and Victor Ginting. Finite-volume-element method for second-order quasilinear elliptic problems. *IMA Journal of Numerical Analysis*, 31(3):1062–1089, July 2011. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/31/3/1062.full.pdf+html.

Bialecki:1991:SCM

[336] Bernard Bialecki. Sinc-collocation methods for two-point boundary value problems. *IMA Journal of Numerical Analysis*, 11(3):357–375, 1991. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Bialecki:2004:PGM

[337] Journal B. Bialecki, M. Ganesh, and K. Mustapha. A Petrov–Galerkin method with quadrature for elliptic boundary value problems. *IMA Journal of Numerical Analysis*, 24(1):157–177, January 2004. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_24/Issue_01/240157.sgm.abs.html; http:

//www3.oup.co.uk/imanum/hdb/Volume_24/Issue_01/pdf/240157.pdf.

Bialecki:2003:OSC

[338] Journal Bernard Bialecki and Ryan I. Fernandes. An orthogonal spline collocation alternating direction implicit method for second-order hyperbolic problems. *IMA Journal of Numerical Analysis*, 23(4):693–718, October 2003. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_23/Issue_04/230693.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_23/Issue_04/pdf/230693.pdf.

Binding:1993:NMU

[339] P. A. Binding, Patrick J. Browne, and Xing Zhi Ji. A numerical method using the Prüfer transformation for the calculation of eigenpairs of two-parameter Sturm–Liouville problems. *IMA Journal of Numerical Analysis*, 13(4):559–569, 1993. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Bini:2022:FFF

[340] Dario A. Bini, Guy Latouche, and Beatrice Meini. A family of fast fixed point iterations for M/G/1-type Markov chains. *IMA Journal of Numerical Analysis*, 42(2):1454–1477, April 2022. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/42/2/1454/6149431.

Binz:2022:CFE

[341] Tim Binz and Balázs Kovács. A convergent finite element algorithm for generalized mean curvature flows of closed surfaces. *IMA Journal of Numerical Analysis*, 42(3):2545–2588, July 2022. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/42/3/2545/6304639.

Bir:2022:BEM

[342] Bikram Bir, Deepjyoti Goswami, and Amiya K. Pani. Backward Euler method for the equations of motion arising in Oldroyd model of order one with nonsmooth initial data. *IMA Journal of Numerical Analysis*, 42(4):3529–3570, October 2022. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/42/4/3529/6396774.

Birgin:2003:ISP

[343] Journal Ernesto G. Birgin, José Mario Martínez, and Marcos Raydan. Inexact spectral projected gradient methods on convex sets. *IMA Journal of Numerical Analysis*, 23(4):539–559, October 2003. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_23/Issue_04/230539.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_23/Issue_04/pdf/230539.pdf.

Bjorhus:1998:OSA

[344] Morten Bjørhus. Operator splitting for abstract Cauchy problems. *IMA Journal of Numerical Analysis*, 18(3):

419–443, July 1998. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_18/Issue_03/180419.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_18/Issue_03/pdf/180419.pdf.

Blanchard:2021:ACL

[345] Pierre Blanchard, Desmond J. Higham, and Nicholas J. Higham. Accurately computing the log-sum-exp and softmax functions. *IMA Journal of Numerical Analysis*, 41(4):2311–2330, October 2021. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/41/4/2311/5893596.

Blanes:2021:CAH

[346] Sergio Blanes, Fernando Casas, Cesáreo González, and Mechthild Thalhammer. Convergence analysis of high-order commutator-free quasi-Magnus exponential integrators for nonautonomous linear Schrödinger equations. *IMA Journal of Numerical Analysis*, 41 (1):594–617, January 2021. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/41/1/594/5771304.

Blanes:2018:CAH

[347] Sergio Blanes, Fernando Casas, and Mechthild Thalhammer. Convergence analysis of high-order commutator-free quasi-Magnus exponential integrators for nonautonomous linear evolution equations of parabolic type. *IMA Journal of Numerical Analysis*, 38(2): 743–778, April 18, 2018. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/38/2/743/3799994.

Blank:1995:SCW

[348] Luise Blank. Stability of collocation for weakly singular Volterra equations. *IMA Journal of Numerical Analysis*, 15(3):357–375, 1995. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Blank:2013:NAC

[349] Luise Blank, Harald Garcke, Lavinia Sarbu, and Vanessa Styles. Nonlocal Allen–Cahn systems: analysis and a primal-dual active set method. *IMA Journal of Numerical Analysis*, 33(4):1126–1155, October 2013. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/33/4/1126.full.pdf+html.

Blaschke:1997:CRI

[350] Barbara Blaschke, Andreas Neubauer, and Otmar Scherzer. On convergence rates for the iteratively regularized Gauss–Newton method. *IMA Journal of Numerical Analysis*, 17(3): 421–436, July 1997. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_17/Issue_03/170421.sgm.abs.html.

Blechta:2020:LNL

[351] Jan Blechta, Josef Málek, and Martin Vohralík. Localization of the $W^{-1,q}$ norm for local a posteriori efficiency. *IMA Journal of Numerical Analysis*,

40(2):914–950, April 2020. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/40/2/914/5381201`.

Blowey:1996:NAM

[352] J. F. Blowey, M. I. M. Copetti, and C. M. Elliott. Numerical analysis of a model for phase separation of a multi-component alloy. *IMA Journal of Numerical Analysis*, 16(1):111–139, January 1996. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://www3.oup.co.uk/imanum/hdb/Volume_16/Issue_01/160111.sgm.abs.html`.

Boffi:2017:RBP

[353] Daniele Boffi, Lucia Gastaldi, Rodolfo Rodríguez, and Ivana Sebestová. Residual-based a posteriori error estimation for the Maxwell's eigenvalue problem. *IMA Journal of Numerical Analysis*, 37(4):1710–1732, October 1, 2017. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `https://academic.oup.com/imajna/article/37/4/1710/2870659`.

Boffi:2024:CLF

[354] Daniele Boffi, Sining Gong, Johnny Guzmán, and Michael Neilan. Convergence of Lagrange finite element methods for Maxwell eigenvalue problem in 3D. *IMA Journal of Numerical Analysis*, 44(4):1911–1945, July 2024. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/44/4/1911/7308484`.

Boffi:2023:CLF

[355] Daniele Boffi, Johnny Guzmán, and Michael Neilan. Convergence of Lagrange finite elements for the Maxwell eigenvalue problem in two dimensions. *IMA Journal of Numerical Analysis*, 43(2):663–691, March 2023. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/43/2/663/6533828`.

Bogli:2020:ENR

[356] Sabine Bögli and Marco Marletta. Essential numerical ranges for linear operator pencils. *IMA Journal of Numerical Analysis*, 40(4):2256–2308, October 2020. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/40/4/2256/5628044`.

Bogucz:1984:FOF

[357] E. A. Bogucz and J. D. A. Walker. Fourth-order finite-difference methods for two-point boundary value problems. *IMA Journal of Numerical Analysis*, 4 (1):69–82, January 1984. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Boiger:2020:RRC

[358] R. Boiger, A. Leitão, and B. F. Svaiter. Range-relaxed criteria for choosing the Lagrange multipliers in nonstationary iterated Tikhonov method. *IMA Journal of Numerical Analysis*, 40(1):606–627, January 2020. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/40/1/606/5142287`.

Boiveau:2016:PFN

[359] Thomas Boiveau and Erik Burman. A penalty-free Nitsche method for the weak imposition of boundary conditions in compressible and incompressible elasticity. *IMA Journal of Numerical Analysis*, 36(2):770–795, April 2016. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/36/2/770`.

Bokanowski:2021:BDF

[360] Olivier Bokanowski and Kristian Debrabant. Backward differentiation formula finite difference schemes for diffusion equations with an obstacle term. *IMA Journal of Numerical Analysis*, 41(2):900–934, April 2021. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/41/2/900/5864926`.

Bokil:2012:ASH

[361] V. A. Bokil and N. L. Gibson. Analysis of spatial high-order finite difference methods for Maxwell's equations in dispersive media. *IMA Journal of Numerical Analysis*, 32(3):926–956, July 2012. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/32/3/926.full.pdf+html`.

Bolin:2020:NSF

[362] David Bolin, Kristin Kirchner, and Mihály Kovács. Numerical solution of fractional elliptic stochastic PDEs with spatial white noise. *IMA Journal of Numerical Analysis*, 40(2):1051–1073, April 2020. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/40/2/1051/5253788`.

Bollapragada:2019:EIS

[363] Raghu Bollapragada, Richard H. Byrd, and Jorge Nocedal. Exact and inexact subsampled Newton methods for optimization. *IMA Journal of Numerical Analysis*, 39(2):545–578, April 2019. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/39/2/545/4959058`.

Bonelle:2015:ACD

[364] Jérôme Bonelle and Alexandre Ern. Analysis of compatible discrete operator schemes for the Stokes equations on polyhedral meshes. *IMA Journal of Numerical Analysis*, 35(4):1672–1697, October 2015. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/35/4/1672`.

Bonettini:2011:IBC

[365] Silvia Bonettini. Inexact block coordinate descent methods with application to non-negative matrix factorization. *IMA Journal of Numerical Analysis*, 31(4):1431–1452, October 2011. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/31/4/1431.full.pdf+html`.

Bonito:2020:FEA

[366] Andrea Bonito, Vivette Girault, and Endre Süli. Finite element approxima-

tion of a strain-limiting elastic model. *IMA Journal of Numerical Analysis*, 40(1):29–86, January 2020. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/40/1/29/5139567.

Bonito:2023:NAL

[367] Andrea Bonito, Diane Guignard, Ricardo H. Nochetto, and Shuo Yang. Numerical analysis of the LDG method for large deformations of prestrained plates. *IMA Journal of Numerical Analysis*, 43(2):627–662, March 2023. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/43/2/627/6517084.

Bonito:2024:GCL

[368] Andrea Bonito, Ricardo H Nochetto, and Shuo Yang. Gamma-convergent LDG method for large bending deformations of bilayer plates. *IMA Journal of Numerical Analysis*, 44(6):3187–3233, November 2024. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/44/6/3187/7515144.

Bonito:2017:CPN

[369] Andrea Bonito and Joseph E. Pasciak. Corrigendum to the paper "Numerical approximation of fractional powers of regularly accretive operators". *IMA Journal of Numerical Analysis*, 37(4):2170, October 1, 2017. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL https://academic.oup.com/imajna/article/37/4/2170/3100450. See [370].

Bonito:2017:NAF

[370] Andrea Bonito and Joseph E. Pasciak. Numerical approximation of fractional powers of regularly accretive operators. *IMA Journal of Numerical Analysis*, 37(3):1245–1273, July 1, 2017. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL https://academic.oup.com/imajna/article/37/3/1245/2670037/Numerical-approximation-of-fractional-powers-of. See corrigendum [369].

Bonizzoni:2014:MEM

[371] Francesca Bonizzoni, Annalisa Buffa, and Fabio Nobile. Moment equations for the mixed formulation of the Hodge Laplacian with stochastic loading term. *IMA Journal of Numerical Analysis*, 34(4):1328–1360, October 2014. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/34/4/1328.

Bonnaillie-Noel:2016:ENC

[372] V. Bonnaillie-Noël, J. A. Carrillo, T. Goudon, and G. A. Pavliotis. Efficient numerical calculation of drift and diffusion coefficients in the diffusion approximation of kinetic equations. *IMA Journal of Numerical Analysis*, 36(4):1536–1569, October 2016. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/36/4/1536.

Bonnans:2006:EES

[373] J. Frédéric Bonnans, Stefania Maroso, and Housnaa Zidani. Error estimates

for stochastic differential games: the adverse stopping case. *IMA Journal of Numerical Analysis*, 26(1):188–212, January 2006. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imanum.oxfordjournals.org/cgi/content/abstract/26/1/188; http://imanum.oxfordjournals.org/cgi/reprint/26/1/188.

Bootland:2023:OSM

[374] Niall Bootland, Victorita Dolean, Ivan G. Graham, Chupeng Ma, and Robert Scheichl. Overlapping Schwarz methods with GenEO coarse spaces for indefinite and nonself-adjoint problems. *IMA Journal of Numerical Analysis*, 43(4):1899–1936, July 2023. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/43/4/1899/6652186.

Borm:2021:VOD

[375] Steffen Börm, Maria Lopez-Fernandez, and Stefan A. Sauter. Variable order, directional H^2-matrices for Helmholtz problems with complex frequency. *IMA Journal of Numerical Analysis*, 41(4):2896–2935, October 2021. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/41/4/2896/6032776.

Bornemann:2007:MUN

[376] Folkmar Bornemann. A model for understanding numerical stability. *IMA Journal of Numerical Analysis*, 27(2):219–231, April 2007. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/cgi/content/abstract/27/2/219; http://imajna.oxfordjournals.org/cgi/reprint/27/2/219.

Bornemann:2013:OCH

[377] Folkmar Bornemann and Georg Wechslberger. Optimal contours for high-order derivatives. *IMA Journal of Numerical Analysis*, 33(2):403–412, April 2013. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/33/2/403.full.pdf+html.

Borsdorf:2010:PNA

[378] Rüdiger Borsdorf and Nicholas J. Higham. A preconditioned Newton algorithm for the nearest correlation matrix. *IMA Journal of Numerical Analysis*, 30(1):94–107, January 2010. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/cgi/content/abstract/30/1/94; http://imajna.oxfordjournals.org/cgi/reprint/30/1/94.

Borsos:2022:QNV

[379] B. Borsos and J. Karátson. Quasi-Newton variable preconditioning for nonlinear nonuniformly monotone elliptic problems posed in Banach spaces. *IMA Journal of Numerical Analysis*, 42(2):1806–1830, April 2022. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/42/2/1806/6276023.

Borwein:1992:FEG

[380] J. M. Borwein and I. J. Zucker. Fast evaluation of the gamma function for small rational fractions using complete elliptic integrals of the first kind. *IMA Journal of Numerical Analysis*, 12(4):519–526, 1992. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Bos:2017:TPA

[381] L. Bos, S. De Marchi, and M. Vianello. Trivariate polynomial approximation on Lissajous curves. *IMA Journal of Numerical Analysis*, 37(1):519–541, January 1, 2017. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL https://academic.oup.com/imajna/article/37/1/519/2669953/Trivariate-polynomial-approximation-on-Lissajous.

Bou-Rabee:2013:NMM

[382] N. Bou-Rabee and M. Hairer. Nonasymptotic mixing of the MALA algorithm. *IMA Journal of Numerical Analysis*, 33(1):80–110, January 2013. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/33/1/80.full.pdf+html.

Bou-Rabee:2009:SVI

[383] Nawaf Bou-Rabee and Houman Owhadi. Stochastic variational integrators. *IMA Journal of Numerical Analysis*, 29(2):421–443, April 2009. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/cgi/content/abstract/29/2/421; http://imajna.oxfordjournals.org/cgi/reprint/29/2/421.

Boubendir:2013:WNE

[384] Yassine Boubendir and Catalin Turc. Wave-number estimates for regularized combined field boundary integral operators in acoustic scattering problems with Neumann boundary conditions. *IMA Journal of Numerical Analysis*, 33(4):1176–1225, October 2013. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/33/4/1176.full.pdf+html.

Boubendir:2016:HON

[385] Yassine Boubendir, Catalin Turc, and Víctor Domínguez. High-order Nyström discretizations for the solution of integral equation formulations of two-dimensional Helmholtz transmission problems. *IMA Journal of Numerical Analysis*, 36(1):463–492, January 2016. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/36/1/463.

Bouche:2015:CCD

[386] Daniel Bouche, Francis Collino, Yoann Morel, and Olivier Vacus. Characteristic current decomposition and radar cross-section analysis for perfectly electrically conducting bodies. *IMA Journal of Numerical Analysis*, 35(1):454–477, January 2015. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/35/1/454.

Bouchut:2014:CTV

[387] François Bouchut, David Doyen, and Robert Eymard. Convection and total variation flow. *IMA Journal of Numerical Analysis*, 34(3):1037–1071, July 2014. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/34/3/1037.

Bouchut:2017:CTV

[388] François Bouchut, David Doyen, and Robert Eymard. Convection and total variation flow-erratum and improvement. *IMA Journal of Numerical Analysis*, 37(4):2139–2169, October 1, 2017. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL https://academic.oup.com/imajna/article/37/4/2139/3038028.

Bouharguane:2018:SMD

[389] Afaf Bouharguane and Benjamin Melinand. A splitting method for deep water with bathymetry. *IMA Journal of Numerical Analysis*, 38(3):1324–1350, July 17, 2018. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/38/3/1324/4056072.

Boulmezaoud:2005:MSE

[390] Tahar Z. Boulmezaoud and Mohammed El Rhabi. A mortar spectral element method for 3D Maxwell's equations. *IMA Journal of Numerical Analysis*, 25(3):577–610, July 2005. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imanum.oxfordjournals.org/cgi/content/abstract/25/3/577; http://imanum.oxfordjournals.org/cgi/reprint/25/3/577.

Boulton:2007:NVA

[391] Lyonell Boulton. Non-variational approximation of discrete eigenvalues of self-adjoint operators. *IMA Journal of Numerical Analysis*, 27(1):102–121, January 2007. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/cgi/content/abstract/27/1/102; http://imajna.oxfordjournals.org/cgi/reprint/27/1/102.

Boulton:2016:CQM

[392] Lyonell Boulton and Aatef Hobiny. On the convergence of the quadratic method. *IMA Journal of Numerical Analysis*, 36(3):1310–1333, July 2016. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/36/3/1310.

Boumal:2019:GRC

[393] Nicolas Boumal, P-A Absil, and Coralia Cartis. Global rates of convergence for nonconvex optimization on manifolds. *IMA Journal of Numerical Analysis*, 39(1):1–33, January 25, 2019. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/39/1/1/4836777. See [394].

Boumal:2020:EGR

[394] Nicolas Boumal, P-A. Absil, and Coralia Cartis. Erratum to: "Global rates of convergence for nonconvex

optimization on manifolds". *IMA Journal of Numerical Analysis*, 40 (4):2940, October 2020. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/40/4/2940/5730315`. See [393].

Boumenir:2001:CNE

[395] A. Boumenir and B. Chanane. The computation of negative eigenvalues of singular Sturm–Liouville problems. *IMA Journal of Numerical Analysis*, 21 (2):489–501, April 2001. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://www3.oup.co.uk/imanum/hdb/Volume_21/Issue_02/210489.sgm.abs.html`; `http://www3.oup.co.uk/imanum/hdb/Volume_21/Issue_02/pdf/210489.pdf`.

Boutelje:2010:NSL

[396] B. R. Boutelje and A. T. Hill. Nonautonomous stability of linear multistep methods. *IMA Journal of Numerical Analysis*, 30(2):525–542, April 2010. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/cgi/content/abstract/30/2/525`; `http://imajna.oxfordjournals.org/cgi/reprint/30/2/525`.

Boutin:2024:CST

[397] Benjamin Boutin, Pierre Le Barbenchon, and Nicolas Seguin. Correction to: On the stability of totally upwind schemes for the hyperbolic initial boundary value problem. *IMA Journal of Numerical Analysis*, 44 (4):2550–2551, July 2024. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/44/4/2550/7252023`. See [398].

Boutin:2024:STU

[398] Benjamin Boutin, Pierre Le Barbenchon, and Nicolas Seguin. On the stability of totally upwind schemes for the hyperbolic initial boundary value problem. *IMA Journal of Numerical Analysis*, 44(2):1211–1241, March 2024. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/44/2/1211/7194068`. See correction [397].

Boyaval:2022:FVA

[399] Sébastien Boyaval, Sofiane Martel, and Julien Reygner. Finite-volume approximation of the invariant measure of a viscous stochastic scalar conservation law. *IMA Journal of Numerical Analysis*, 42(3):2710–2770, July 2022. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/42/3/2710/6318665`.

Boyer:2012:AUF

[400] Franck Boyer. Analysis of the upwind finite volume method for general initial- and boundary-value transport problems. *IMA Journal of Numerical Analysis*, 32(4):1404–1439, October 2012. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/32/4/1404.full.pdf+html`.

Boyer:2010:NSA

[401] Franck Boyer, Florence Hubert, and

Stella Krell. Nonoverlapping Schwarz algorithm for solving two-dimensional m-DDFV schemes. *IMA Journal of Numerical Analysis*, 30(4):1062–1100, October 2010. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/30/4/1062.full.pdf+html.

Bozzini:2015:IVS

[402] Mira Bozzini, Licia Lenarduzzi, Milvia Rossini, and Robert Schaback. Interpolation with variably scaled kernels. *IMA Journal of Numerical Analysis*, 35(1):199–219, January 2015. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/35/1/199.

Bradji:2007:ODC

[403] Abdallah Bradji and Ahmed-Salah Chibi. Optimal defect corrections on composite nonmatching finite-element meshes. *IMA Journal of Numerical Analysis*, 27(4):765–780, October 2007. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/cgi/content/abstract/27/4/765; http://imajna.oxfordjournals.org/cgi/reprint/27/4/765.

Bradji:2008:DCH

[404] Abdallah Bradji and Raphaèle Herbin. Discretization of coupled heat and electrical diffusion problems by finite-element and finite-volume methods. *IMA Journal of Numerical Analysis*, 28(3):469–495, July 2008. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/cgi/content/abstract/28/3/469; http://imajna.oxfordjournals.org/cgi/reprint/28/3/469.

Bradley:2023:EBD

[405] Susanne Bradley and Chen Greif. Eigenvalue bounds for double saddle-point systems. *IMA Journal of Numerical Analysis*, 43(6):3564–3592, November 2023. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/43/6/3564/6955816.

Braess:1986:NSB

[406] D. Braess and P. Peisker. On the numerical solution of the biharmonic equation and the role of squaring matrices for preconditioning. *IMA Journal of Numerical Analysis*, 6(4):393–404, 1986. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Braess:1983:NSO

[407] Dietrich Braess. On the numerical solution of the one-dimensional Stefan problem by Newton's method. *IMA Journal of Numerical Analysis*, 3(2):161–172, 1983. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Braess:2005:AES

[408] Dietrich Braess and Wolfgang Hackbusch. Approximation of $1/x$ by exponential sums in $[1, \infty)$. *IMA Journal of Numerical Analysis*, 25(4):685–697, October 2005. CODEN IJNADH. ISSN 0272-4979 (print),

1464-3642 (electronic). URL http://imanum.oxfordjournals.org/cgi/reprint/25/4/685.

Braess:2020:EBP

[409] Dietrich Braess, Astrid S. Pechstein, and Joachim Schöberl. An equilibration-based a posteriori error bound for the biharmonic equation and two finite element methods. *IMA Journal of Numerical Analysis*, 40(2):951–975, April 2020. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/40/2/951/5344991.

Brandts:2006:NLS

[410] Jan Brandts, Yanping Chen, and Julie Yang. A note on least-squares mixed finite elements in relation to standard and mixed finite elements. *IMA Journal of Numerical Analysis*, 26(4):779–789, October 2006. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/cgi/content/abstract/26/4/779; http://imajna.oxfordjournals.org/cgi/reprint/26/4/779.

Brandts:2003:GSU

[411] Jan Brandts and Michal Křízek. Gradient superconvergence on uniform simplicial partitions of polytopes. *IMA Journal of Numerical Analysis*, 23(3):489–505, July 2003. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_23/Issue_03/230489.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_23/Issue_03/pdf/230489.pdf.

Brankin:1989:SPL

[412] R. W. Brankin and I. Gladwell. Shape-preserving local interpolation for plotting solutions of ODEs. *IMA Journal of Numerical Analysis*, 9(4):555–566, 1989. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Brannigan:1981:TCB

[413] M. Brannigan. Theory and computation of best strict constrained Chebyshev approximation of discrete data. *IMA Journal of Numerical Analysis*, 1(2):169–184, 1981. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Brass:1990:OER

[414] H. Brass. Optimal estimation rules for functions of high smoothness. *IMA Journal of Numerical Analysis*, 10(1):129–136, January 1990. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Breda:2012:CEG

[415] Dimitri Breda, Rossana Vermiglio, and Stefano Maset. Computing the eigenvalues of Gurtin–MacCamy models with diffusion. *IMA Journal of Numerical Analysis*, 32(3):1030–1050, July 2012. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/32/3/1030.full.pdf+html.

Breda:2004:CCR

[416] Journal D. Breda, S. Maset, and R. Vermiglio. Computing the characteristic roots for delay differential equations. *IMA Journal of Nu-*

merical Analysis, 24(1):1–19, January 2004. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_24/Issue_01/240001.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_24/Issue_01/pdf/240001.pdf.

Brehier:2019:SCR

[417] Charles-Edouard Bréhier, Jianbo Cui, and Jialin Hong. Strong convergence rates of semidiscrete splitting approximations for the stochastic Allen–Cahn equation. *IMA Journal of Numerical Analysis*, 39(4):2096–2134, October 2019. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/39/4/2096/5060929.

Brehier:2017:AIL

[418] Charles-Edouard Bréhier and Marie Kopec. Approximation of the invariant law of SPDEs: error analysis using a Poisson equation for a full-discretization scheme. *IMA Journal of Numerical Analysis*, 37(3):1375–1410, July 1, 2017. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL https://academic.oup.com/imajna/article/37/3/1375/2669999/Approximation-of-the-invariant-law-of-SPDEs-error.

Breiding:2020:ACN

[419] Paul Breiding and Nick Vannieuwenhoven. On the average condition number of tensor rank decompositions. *IMA Journal of Numerical Analysis*, 40(3):1908–1936, July 2020. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/40/3/1908/5519045.

Breit:2021:PPL

[420] Dominic Breit, Lars Diening, Johannes Storn, and Jörn Wichmann. The parabolic p-Laplacian with fractional differentiability. *IMA Journal of Numerical Analysis*, 41(3):2110–2138, July 2021. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/41/3/2110/6027831.

Breit:2020:STA

[421] Dominic Breit and Prince Romeo Mensah. Space-time approximation of parabolic systems with variable growth. *IMA Journal of Numerical Analysis*, 40(4):2505–2552, October 2020. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/40/4/2505/5628042.

Breit:2023:NAT

[422] Dominic Breit and Andreas Prohl. Numerical analysis of two-dimensional Navier–Stokes equations with additive stochastic forcing. *IMA Journal of Numerical Analysis*, 43(3):1391–1421, May 2023. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/43/3/1391/6617744.

Bremer:2020:FAJ

[423] James Bremer and Haizhao Yang. Fast algorithms for Jacobi expansions via

nonoscillatory phase functions. *IMA Journal of Numerical Analysis*, 40 (3):2019–2051, July 2020. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/40/3/2019/5442213.

Brenner:2014:PEA

[424] Andreas Brenner, Eberhard Bänsch, and Markus Bause. A priori error analysis for finite element approximations of the Stokes problem on dynamic meshes. *IMA Journal of Numerical Analysis*, 34(1):123–146, January 2014. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/34/1/123.full.pdf+html.

Brenner:2023:GDM

[425] K. Brenner, Florent Chave, and R. Masson. Gradient discretization of a 3D–2D–1D mixed-dimensional diffusive model with resolved interface, application to the drying of a fractured porous medium. *IMA Journal of Numerical Analysis*, 43(6):3522–3563, November 2023. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/43/6/3522/6955815.

Brenner:2017:GDH

[426] K. Brenner, J. Hennicker, R. Masson, and P. Samier. Gradient discretization of hybrid-dimensional Darcy flow in fractured porous media with discontinuous pressures at matrix-fracture interfaces. *IMA Journal of Numerical Analysis*, 37(3):1551–1585, July 1, 2017. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL https://academic.oup.com/imajna/article/37/3/1551/2670042/Gradient-discretization-of-hybrid-dimensional.

Brenner:2022:TVB

[427] K. Brenner, R. Masson, E. H. Quenjel, and J. Droniou. Total velocity-based finite volume discretization of two-phase Darcy flow in highly heterogeneous media with discontinuous capillary pressure. *IMA Journal of Numerical Analysis*, 42(2):1231–1272, April 2022. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/42/2/1231/6254233.

Brenner:2010:PEE

[428] Susanne C. Brenner, Thirupathi Gudi, and Li yeng Sung. An a posteriori error estimator for a quadratic C^0-interior penalty method for the biharmonic problem. *IMA Journal of Numerical Analysis*, 30(3):777–798, July 2010. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/cgi/content/abstract/30/3/777; http://imajna.oxfordjournals.org/cgi/reprint/30/3/777.

Brenner:2020:FEM

[429] Susanne C. Brenner, Li yeng Sung, and Joscha Gedicke. P_1 finite element methods for an elliptic optimal control problem with pointwise state constraints. *IMA Journal of Numerical Analysis*, 40(1):1–28, January 2020. CODEN IJNADH. ISSN 0272-4979

(print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/40/1/1/5177806.

Bressan:2011:IRD

[430] Andrea Bressan. Isogeometric regular discretization for the Stokes problem. *IMA Journal of Numerical Analysis*, 31(4):1334–1356, October 2011. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/31/4/1334.full.pdf+html.

Bressan:2021:BCA

[431] Andrea Bressan, Michael S. Floater, and Espen Sande. On best constants in L^2 approximation. *IMA Journal of Numerical Analysis*, 41(4):2830–2840, October 2021. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/41/4/2830/5896483.

Bressan:2018:ISS

[432] Andrea Bressan and Bert Jüttler. Inf-sup stability of isogeometric Taylor–Hood and sub-grid methods for the Stokes problem with hierarchical splines. *IMA Journal of Numerical Analysis*, 38(2):955–975, April 18, 2018. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/38/2/955/4099778.

Bressan:2013:IDS

[433] Andrea Bressan and Giancarlo Sangalli. Isogeometric discretizations of the Stokes problem: stability analysis by the macroelement technique. *IMA Journal of Numerical Analysis*, 33(2):629–651, April 2013. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/33/2/629.full.pdf+html.

Brett:2016:OCE

[434] Charles Brett, Andreas Dedner, and Charles Elliott. Optimal control of elliptic PDEs at points. *IMA Journal of Numerical Analysis*, 36(3):1015–1050, July 2016. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/36/3/1015.

Brezinski:1983:ECC

[435] Claude Brezinski. Error control in convergence acceleration processes. *IMA Journal of Numerical Analysis*, 3(1):65–80, 1983. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Brezinski:2022:SAT

[436] Claude Brezinski, Stefano Cipolla, Michela Redivo-Zaglia, and Yousef Saad. Shanks and Anderson-type acceleration techniques for systems of nonlinear equations. *IMA Journal of Numerical Analysis*, 42(4):3058–3093, October 2022. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/42/4/3058/6354546.

Briggs:2002:FDA

[437] A. J. Briggs, J. R. Claisse, and C. M. Elliott. Finite-difference ap-

proximation of a one-dimensional Hamilton–Jacobi/elliptic system arising in superconductivity. *IMA Journal of Numerical Analysis*, 22(1):89–131, January 2002. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://www3.oup.co.uk/imanum/hdb/Volume_22/Issue_01/220089.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_22/Issue_01/pdf/220089.pdf`.

Brink:1996:CRC

[438] Ulrich Brink and Ernst P. Stephan. Convergence rates for the coupling of FEM and collocation BEM. *IMA Journal of Numerical Analysis*, 16(1): 93–110, January 1996. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://www3.oup.co.uk/imanum/hdb/Volume_16/Issue_01/160093.sgm.abs.html`.

Brix:2015:MPD

[439] Kolja Brix, Martin Campos Pinto, Claudio Canuto, and Wolfgang Dahmen. Multilevel preconditioning of discontinuous Galerkin spectral element methods. Part I: geometrically conforming meshes. *IMA Journal of Numerical Analysis*, 35(4):1487–1532, October 2015. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/35/4/1487`.

Broersen:2015:PGD

[440] Dirk Broersen and Rob P. Stevenson. A Petrov–Galerkin discretization with optimal test space of a mild-weak formulation of convection-diffusion equations in mixed form. *IMA Journal of Numerical Analysis*, 35(1):39–73, January 2015. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/35/1/39`.

Bronsard:2024:SLR

[441] Yvonne Alama Bronsard. A symmetric low-regularity integrator for the nonlinear Schrödinger equation. *IMA Journal of Numerical Analysis*, 44(6): 3648–3682, November 2024. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/44/6/3648/7473697`.

Brown:2004:SIS

[442] Journal B. M. Brown and M. Marletta. Spectral inclusion and spectral exactness for PDEs on exterior domains. *IMA Journal of Numerical Analysis*, 24 (1):21–43, January 2004. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://www3.oup.co.uk/imanum/hdb/Volume_24/Issue_01/240021.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_24/Issue_01/pdf/240021.pdf`.

Brown:1982:VII

[443] N. G. Brown and R. Wait. Verification and inversion of isoparametric transformations. *IMA Journal of Numerical Analysis*, 2(4):481–492, October 1982. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Browne:1982:NTM

[444] Patrick J. Browne and B. D. Sleeman. A numerical technique for multiparameter eigenvalue problems. *IMA*

Journal of Numerical Analysis, 2(4): 451–457, October 1982. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Brownlee:2004:AOI

[445] Rob Brownlee and Will Light. Approximation orders for interpolation by surface splines to rough functions. *IMA Journal of Numerical Analysis*, 24 (2):179–192, April 2004. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_24/Issue_02/240179.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_24/Issue_02/pdf/240179.pdf.

Brugiapaglia:2021:WFC

[446] S. Brugiapaglia, S. Micheletti, F. Nobile, and S. Perotto. Wavelet-Fourier CORSING techniques for multidimensional advection-diffusion-reaction equations. *IMA Journal of Numerical Analysis*, 41(4):2744–2781, October 2021. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/41/4/2744/5892041.

Brumm:2014:HMM

[447] Bernd Brumm and Daniel Weiss. Heterogeneous multiscale methods for highly oscillatory mechanical systems with solution-dependent frequencies. *IMA Journal of Numerical Analysis*, 34(1):55–82, January 2014. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/34/1/55.full.pdf+html.

Brunner:1989:NST

[448] H. Brunner and J.-P. Kauthen. The numerical solution of two-dimensional Volterra integral equations by collocation and iterated collocation. *IMA Journal of Numerical Analysis*, 9(1): 47–59, 1989. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Brunner:1986:PSC

[449] Hermann Brunner. Polynomial spline collocation methods for Volterra integrodifferential equations with weakly singular kernels. *IMA Journal of Numerical Analysis*, 6(2):221–239, 1986. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Brunner:2009:DGA

[450] Hermann Brunner, Penny J. Davies, and Dugald B. Duncan. Discontinuous Galerkin approximations for Volterra integral equations of the first kind. *IMA Journal of Numerical Analysis*, 29(4):856–881, October 2009. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/cgi/content/abstract/29/4/856; http://imajna.oxfordjournals.org/cgi/reprint/29/4/856.

Brunner:2012:GCL

[451] Hermann Brunner, Penny J. Davies, and Dugald B. Duncan. Global convergence and local superconvergence of first-kind Volterra integral equation approximations. *IMA Journal of Numerical Analysis*, 32(3):1117–1146, July 2012. CODEN IJNADH.

ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/32/3/1117.full.pdf+html`.

Brunner:2001:GMC

[452] Hermann Brunner, Qiya Hu, and Qun Lin. Geometric meshes in collocation methods for Volterra integral equations with proportional delays. *IMA Journal of Numerical Analysis*, 21(4): 783–798, October 2001. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://www3.oup.co.uk/imanum/hdb/Volume_21/Issue_04/210783.sgm.abs.html`; `http://www3.oup.co.uk/imanum/hdb/Volume_21/Issue_04/pdf/210783.pdf`.

Brunner:2010:SPC

[453] Hermann Brunner, Arieh Iserles, and Syvert P. Nørsett. The spectral problem for a class of highly oscillatory Fredholm integral operators. *IMA Journal of Numerical Analysis*, 30(1):108–130, January 2010. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/cgi/content/abstract/30/1/108`; `http://imajna.oxfordjournals.org/cgi/reprint/30/1/108`.

Brunner:2011:ACS

[454] Hermann Brunner, Hehu Xie, and Ran Zhang. Analysis of collocation solutions for a class of functional equations with vanishing delays. *IMA Journal of Numerical Analysis*, 31(2):698–718, April 2011. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/31/2/698.full.pdf+html`.

Brunner:2024:AFQ

[455] Maximilian Brunner, Michael Innerberger, Ani Miraçi, Dirk Praetorius, Julian Streitberger, and Pascal Heid. Adaptive FEM with quasi-optimal overall cost for nonsymmetric linear elliptic PDEs. *IMA Journal of Numerical Analysis*, 44(3):1560–1596, May 2024. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/44/3/1560/7198102`. See corrigendum [456].

Brunner:2024:CAF

[456] Maximilian Brunner, Michael Innerberger, Ani Miraçi, Dirk Praetorius, Julian Streitberger, and Pascal Heid. Corrigendum to: Adaptive FEM with quasi-optimal overall cost for nonsymmetric linear elliptic PDEs. *IMA Journal of Numerical Analysis*, 44 (3):1903–1909, May 2024. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/44/3/1903/7560585`. See [455].

Brutman:1986:GAP

[457] L. Brutman. Generalized alternating polynomials, some properties and numerical applications. *IMA Journal of Numerical Analysis*, 6(2):125–136, 1986. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Brutman:1990:IPA

[458] L. Brutman, P. Vértesi, and Y. Xu. Interpolation by polynomials in z and

z^{-1} on an annulus. *IMA Journal of Numerical Analysis*, 10(2):235–241, 1990. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Bryson:2005:SDC

[459] Steve Bryson, Alexander Kurganov, Doron Levy, and Guergana Petrova. Semi-discrete central-upwind schemes with reduced dissipation for Hamilton–Jacobi equations. *IMA Journal of Numerical Analysis*, 25(1):113–138, January 2005. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imanum.oupjournals.org/cgi/content/abstract/25/1/113; http://imanum.oupjournals.org/cgi/reprint/25/1/113.

Buchholz:2018:CGB

[460] Simone Buchholz, Ludwig Gauckler, Volker Grimm, Marlis Hochbruck, and Tobias Jahnke. Closing the gap between trigonometric integrators and splitting methods for highly oscillatory differential equations. *IMA Journal of Numerical Analysis*, 38(1):57–74, January 25, 2018. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/38/1/57/3065608.

Buckwar:2005:WAS

[461] Evelyn Buckwar and Tony Shardlow. Weak approximation of stochastic differential delay equations. *IMA Journal of Numerical Analysis*, 25(1):57–86, January 2005. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imanum.oupjournals.org/cgi/content/abstract/25/1/57; http://imanum.oupjournals.org/cgi/reprint/25/1/57.

Buffa:2023:EPE

[462] Annalisa Buffa, Ondine Chanon, and Rafael Vázquez. An *a posteriori* error estimator for isogeometric analysis on trimmed geometries. *IMA Journal of Numerical Analysis*, 43(5):2533–2561, September 2023. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/43/5/2533/6771874.

Buffa:2017:RSL

[463] Annalisa Buffa and Eduardo M. Garau. Refinable spaces and local approximation estimates for hierarchical splines. *IMA Journal of Numerical Analysis*, 37(3):1125–1149, July 1, 2017. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL https://academic.oup.com/imajna/article/37/3/1125/2670017/Refinable-spaces-and-local-approximation-estimates.

Buffa:2009:CEB

[464] Annalisa Buffa and Christoph Ortner. Compact embeddings of broken Sobolev spaces and applications. *IMA Journal of Numerical Analysis*, 29(4):827–855, October 2009. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/cgi/content/abstract/29/4/827; http://imajna.oxfordjournals.org/cgi/reprint/29/4/827.

Buhmann:1988:CUQ

[465] M. D. Buhmann. Convergence of univariate quasi-interpolation using multi-

quadrics. *IMA Journal of Numerical Analysis*, 8(3):365–383, 1988. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Buhmann:1992:DDN

[466] M. D. Buhmann and A. Iserles. On the dynamics of a discretized neutral equation. *IMA Journal of Numerical Analysis*, 12(3):339–363, 1992. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). IMA Conference on Dynamics of Numerics and Numerics of Dynamics (Bristol, 1990).

Buhmann:2022:SPD

[467] Martin Buhmann and Janin Jäger. Strictly positive definite kernels on the 2-sphere: from radial symmetry to eigenvalue block structure. *IMA Journal of Numerical Analysis*, 42(2):1500–1525, April 2022. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/42/2/1500/6261429`.

Buhmann:2020:ANC

[468] Martin D. Buhmann, Stefano De Marchi, and Emma Perracchione. Analysis of a new class of rational RBF expansions. *IMA Journal of Numerical Analysis*, 40(3):1972–1993, July 2020. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/40/3/1972/5431586`. See erratum [469].

Buhmann:2020:EAN

[469] Martin D. Buhmann, Stefano De Marchi, and Emma Perracchione. Erratum to: Analysis of a new class of rational RBF expansions. *IMA Journal of Numerical Analysis*, 40(4):2941, October 2020. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/40/4/2941/5753582`. See [468].

Buhmann:2010:NRB

[470] Martin D. Buhmann, Slawomir Dinew, and Elisabeth Larsson. A note on radial basis function interpolant limits. *IMA Journal of Numerical Analysis*, 30(2):543–554, April 2010. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/cgi/content/abstract/30/2/543; http://imajna.oxfordjournals.org/cgi/reprint/30/2/543`.

Bujalska:1982:QS

[471] A. Bujalska and R. Smarzewski. Quadratic X-splines. *IMA Journal of Numerical Analysis*, 2(1):37–47, January 1982. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Bujanda:2007:OCL

[472] B. Bujanda and J. C. Jorge. Order conditions for linearly implicit fractional step Runge–Kutta methods. *IMA Journal of Numerical Analysis*, 27(4):781–797, October 2007. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/cgi/content/abstract/27/4/781; http://imajna.oxfordjournals.org/cgi/reprint/27/4/781`.

Bultheel:2010:RQF

[473] A. Bultheel, P. González-Vera, E. Hendriksen, and O. Njåstad. Rational quadrature formulas on the unit circle with prescribed nodes and maximal domain of validity. *IMA Journal of Numerical Analysis*, 30(4):940–963, October 2010. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/30/4/940.full.pdf+html`.

Bungert:2023:UCR

[474] Leon Bungert, Jeff Calder, and Tim Roith. Uniform convergence rates for Lipschitz learning on graphs. *IMA Journal of Numerical Analysis*, 43 (4):2445–2495, July 2023. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/43/4/2445/6705556`.

Burger:2024:DCM

[475] Raimund Bürger, Arbaz Khan, Paul E Méndez, and Ricardo Ruiz-Baier. Divergence-conforming methods for transient double-diffusive flows: *a priori* and *a posteriori* error analysis. *IMA Journal of Numerical Analysis*, 44(6):3520–3572, November 2024. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/44/6/3520/7460331`.

Burke:2003:RSC

[476] J. V. Burke, A. S. Lewis, and M. L. Overton. Robust stability and a criss-cross algorithm for pseudospectra. *IMA Journal of Numerical Analysis*, 23(3): 359–375, July 2003. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://www3.oup.co.uk/imanum/hdb/Volume_23/Issue_03/drg004.sgm.abs.html`; `http://www3.oup.co.uk/imanum/hdb/Volume_23/Issue_03/pdf/drg004.pdf`.

Burke:2008:SSR

[477] J. V. Burke, A. S. Lewis, and M. L. Overton. The speed of Shor's R-algorithm. *IMA Journal of Numerical Analysis*, 28(4):711–720, October 2008. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/cgi/content/abstract/28/4/711`.

Burman:2021:UHH

[478] Erik Burman, Guillaume Delay, and Alexandre Ern. An unfitted hybrid high-order method for the Stokes interface problem. *IMA Journal of Numerical Analysis*, 41(4):2362–2387, October 2021. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/41/4/2362/5903421`.

Burman:2009:WEE

[479] Erik Burman, Johnny Guzmán, and Dmitriy Leykekhman. Weighted error estimates of the continuous interior penalty method for singularly perturbed problems. *IMA Journal of Numerical Analysis*, 29(2):284–314, April 2009. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/cgi/content/abstract/29/2/284`; `http://imajna.`

oxfordjournals.org/cgi/reprint/29/2/284.

Burman:2018:RFE

[480] Erik Burman, Johnny Guzmán, Manuel A. Sánchez, and Marcus Sarkis. Robust flux error estimation of an unfitted Nitsche method for high-contrast interface problems. *IMA Journal of Numerical Analysis*, 38(2):646–668, April 18, 2018. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/38/2/646/3829613.

Burman:2010:IPS

[481] Erik Burman and Peter Hansbo. Interior-penalty-stabilized Lagrange multiplier methods for the finite-element solution of elliptic interface problems. *IMA Journal of Numerical Analysis*, 30(3):870–885, July 2010. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/cgi/content/abstract/30/3/870; http://imajna.oxfordjournals.org/cgi/reprint/30/3/870.

Burman:2017:CDG

[482] Erik Burman, Peter Hansbo, Mats G. Larson, and André Massing. A cut discontinuous Galerkin method for the Laplace–Beltrami operator. *IMA Journal of Numerical Analysis*, 37(1):138–169, January 1, 2017. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL https://academic.oup.com/imajna/article/37/1/138/2884281/A-cut-discontinuous-Galerkin-method-for-the.

Burman:2022:EPE

[483] Erik Burman, Cuiyu He, and Mats G. Larson. *A posteriori* error estimates with boundary correction for a cut finite element method. *IMA Journal of Numerical Analysis*, 42(1):333–362, January 2022. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/42/1/333/6041856.

Burrage:1985:SPS

[484] K. Burrage and F. H. Chipman. The stability properties of singly-implicit general linear methods. *IMA Journal of Numerical Analysis*, 5(3):287–295, 1985. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Burrage:1987:ASG

[485] Kevin Burrage. (k, l)-algebraic stability of Gauss methods. *IMA Journal of Numerical Analysis*, 7(2):251–259, 1987. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Burrage:1988:ASR

[486] Kevin Burrage. (k, l)-algebraic stability of Runge–Kutta methods. *IMA Journal of Numerical Analysis*, 8(3):385–400, 1988. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Burrage:1988:OPI

[487] Kevin Burrage. Order properties of implicit multivalue methods for ordinary differential equations. *IMA Journal of Numerical Analysis*, 8(1):43–69, 1988. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Buscaglia:2012:IEF

[488] Gustavo C. Buscaglia and Abdellatif Agouzal. Interpolation estimate for a finite-element space with embedded discontinuities. *IMA Journal of Numerical Analysis*, 32(2):672–686, April 2012. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/32/2/672.full.pdf+html.

Buscaglia:2015:FEM

[489] Gustavo C. Buscaglia and Vitoriano Ruas. Finite element methods for the Stokes system with interface pressure discontinuities. *IMA Journal of Numerical Analysis*, 35(1):220–238, January 2015. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/35/1/220.

Bustinza:2008:CLD

[490] Rommel Bustinza, Gabriel N. Gatica, and Francisco-Javier Sayas. On the coupling of local discontinuous Galerkin and boundary element methods for non-linear exterior transmission problems. *IMA Journal of Numerical Analysis*, 28(2):225–244, April 2008. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/cgi/content/abstract/28/2/225; http://imajna.oxfordjournals.org/cgi/reprint/28/2/225.

Butcher:1986:OOS

[491] J. C. Butcher. Optimal order and stepsize sequences. *IMA Journal of Numerical Analysis*, 6(4):433–438, 1986. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Butcher:2010:TBS

[492] J. C. Butcher. Trees, B-series and exponential integrators. *IMA Journal of Numerical Analysis*, 30(1):131–140, January 2010. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/cgi/content/abstract/30/1/131; http://imajna.oxfordjournals.org/cgi/reprint/30/1/131.

Caceres:2017:MVE

[493] Ernesto Cáceres and Gabriel N. Gatica. A mixed virtual element method for the pseudostress–velocity formulation of the Stokes problem. *IMA Journal of Numerical Analysis*, 37(1):296–331, January 1, 2017. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL https://academic.oup.com/imajna/article/37/1/296/2669934/A-mixed-virtual-element-method-for-the.

Cahlon:1992:NSF

[494] B. Cahlon and D. Schmidt. Numerical solutions for functional integral equations. *IMA Journal of Numerical Analysis*, 12(4):527–543, 1992. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Cahlon:1982:PPA

[495] Baruch Cahlon and Darrell Schmidt. Piecewise polynomial approximate solutions of an automatic control problem. *IMA Journal of Numerical Analysis*, 2(1):1–19, January 1982. CODEN

IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Cai:1999:APD

[496] Xing Cai, Bjørn Fredrik Nielsen, and Aslak Tveito. An analysis of a preconditioner for the discretized pressure equation arising in reservoir simulation. *IMA Journal of Numerical Analysis*, 19 (2):291–316, April 1999. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_19/Issue_02/190291.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_19/Issue_02/pdf/190291.pdf.

Caillaud:2023:EEF

[497] Corentin Caillaud and Antonin Chambolle. Error estimates for finite differences approximations of the total variation. *IMA Journal of Numerical Analysis*, 43(2):692–736, March 2023. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/43/2/692/6550478.

Calgaro:2024:DGN

[498] Caterina Calgaro, Clément Cancès, and Emmanuel Creusé. Discrete Gagliardo–Nirenberg inequality and application to the finite volume approximation of a convection-diffusion equation with a Joule effect term. *IMA Journal of Numerical Analysis*, 44(4):2394–2436, July 2024. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/44/4/2394/7251983.

Caloz:1997:SAR

[499] Gabriel Caloz. Stability of the approximation of a regular solution branch. *IMA Journal of Numerical Analysis*, 17 (2):285–303, April 1997. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_17/Issue_02/170285.sgm.abs.html.

Calvo:1996:GEE

[500] M. Calvo, D. J. Higham, J. I. Montijano, and L. Rández. Global error estimation with adaptive explicit Runge–Kutta methods. *IMA Journal of Numerical Analysis*, 16(1): 47–63, January 1996. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_16/Issue_01/160047.sgm.abs.html.

Calvo:2002:HOS

[501] M. P. Calvo. High order starting iterates for implicit Runge–Kutta methods: an improvement for variable-step symplectic integrators. *IMA Journal of Numerical Analysis*, 22(1): 153–166, January 2002. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_22/Issue_01/220153.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_22/Issue_01/pdf/220153.pdf.

Calvo:1999:CMT

[502] M. P. Calvo, A. Iserles, and A. Zanna. Conservative methods for the Toda lattice equations. *IMA Journal of Numerical Analysis*, 19(4):509–523, October 1999. CODEN IJNADH.

ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_19/Issue_04/190509.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_19/Issue_04/pdf/190509.pdf.

Camacho:2015:PPE

[503] Fernando Camacho and Alan Demlow. L_2 and pointwise a posteriori error estimates for FEM for elliptic PDEs on surfaces. *IMA Journal of Numerical Analysis*, 35(3):1199–1227, July 2015. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/35/3/1199.

Camano:2018:EAA

[504] Jessika Camaño, Ricardo Oyarzúa, Ricardo Ruiz-Baier, and Giordano Tierra. Error analysis of an augmented mixed method for the Navier–Stokes problem with mixed boundary conditions. *IMA Journal of Numerical Analysis*, 38(3):1452–1484, July 17, 2018. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/38/3/1452/4082917.

Cameron:1983:SDA

[505] Ian T. Cameron. Solution of differential-algebraic systems using diagonally implicit Runge–Kutta methods. *IMA Journal of Numerical Analysis*, 3(3):273–289, 1983. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Cameron:1985:API

[506] R. F. Cameron and S. McKee. The analysis of product integration methods for Abel's equation using discrete fractional differentiation. *IMA Journal of Numerical Analysis*, 5(3):339–353, 1985. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Campos:2011:QFI

[507] Rafael G. Campos, Francisco Domínguez Mota, and E. Coronado. Quadrature formulas for integral transforms generated by orthogonal polynomials. *IMA Journal of Numerical Analysis*, 31(3):1181–1193, July 2011. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/31/3/1181.full.pdf+html.

Cances:2021:NAF

[508] Clément Cancès, Claire Chainais-Hillairet, Jürgen Fuhrmann, and Benoît Gaudeul. A numerical-analysis-focused comparison of several finite volume schemes for a unipolar degenerate drift-diffusion model. *IMA Journal of Numerical Analysis*, 41(1):271–314, January 2021. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/41/1/271/5872000.

Cances:2024:FVS

[509] Clément Cancès, Virginie Ehrlacher, and Laurent Monasse. Finite volumes for the Stefan–Maxwell cross-diffusion system. *IMA Journal of Numerical Analysis*, 44(2):1029–1060, March 2024. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/44/2/1029/7188924.

Cances:2018:TGM

[510] Eric Cancès, Rachida Chakir, Lianhua He, and Yvon Maday. Two-grid methods for a class of nonlinear elliptic eigenvalue problems. *IMA Journal of Numerical Analysis*, 38(2): 605–645, April 18, 2018. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/38/2/605/3866674`.

Cances:2021:PPP

[511] Eric Cancès, Geneviève Dusson, Yvon Maday, Benjamin Stamm, and Martin Vohralík. Post-processing of the planewave approximation of Schrödinger equations. Part I: linear operators. *IMA Journal of Numerical Analysis*, 41(4):2423–2455, October 2021. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/41/4/2423/5906626`.

Cangiani:2020:VEM

[512] A. Cangiani, P. Chatzipantelidis, G. Diwan, and E. H. Georgoulis. Virtual element method for quasilinear elliptic problems. *IMA Journal of Numerical Analysis*, 40(4):2450–2472, October 2020. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/40/4/2450/5586239`.

Cangiani:2014:ADG

[513] Andrea Cangiani, Emmanuil H. Georgoulis, and Stephen Metcalfe. Adaptive discontinuous Galerkin methods for nonstationary convection-diffusion problems. *IMA Journal of Numerical Analysis*, 34(4):1578–1597, October 2014. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/34/4/1578`.

Cangiani:2017:CNV

[514] Andrea Cangiani, Gianmarco Manzini, and Oliver J. Sutton. Conforming and nonconforming virtual element methods for elliptic problems. *IMA Journal of Numerical Analysis*, 37(3): 1317–1354, July 1, 2017. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `https://academic.oup.com/imajna/article/37/3/1317/2670019/Conforming-and-nonconforming-virtual-element`.

Cano:2010:MCM

[515] B. Cano and M. J. Moreta. Multistep cosine methods for second-order partial differential systems. *IMA Journal of Numerical Analysis*, 30(2):431–461, April 2010. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/cgi/content/abstract/30/2/431`; `http://imajna.oxfordjournals.org/cgi/reprint/30/2/431`.

Cano:1998:EGN

[516] B. Cano and J. M. Sanz-Serna. Error growth in the numerical integration of periodic orbits by multistep methods, with application to reversible systems. *IMA Journal of Numerical Analysis*, 18 (1):57–75, January 1998. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://www3.oup.co.uk/imanum/hdb/Volume_18/`

Issue_01/180057.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_18/Issue_01/pdf/180057.pdf.

Canuto:2014:BPC

[517] Claudio Canuto, Luca F. Pavarino, and Alexandre B. Pieri. BDDC preconditioners for continuous and discontinuous Galerkin methods using spectral/*hp* elements with variable local polynomial degree. *IMA Journal of Numerical Analysis*, 34(3):879–903, July 2014. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/34/3/879.

Cao:2024:NSO

[518] Jiachuan Cao, Buyang Li, and Yanping Lin. A new second-order low-regularity integrator for the cubic nonlinear Schrödinger equation. *IMA Journal of Numerical Analysis*, 44 (3):1313–1345, May 2024. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/44/3/1313/7109227.

Cao:1997:HBM

[519] Thang Cao. Hierarchical basis methods for hypersingular integral equations. *IMA Journal of Numerical Analysis*, 17(4):603–619, October 1997. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_17/Issue_04/170603.sgm.abs.html.

Cao:2019:CMF

[520] X. Cao, S. F. Nemadjieu, and I. S. Pop. Convergence of an MPFA finite volume scheme for a two-phase porous media flow model with dynamic capillarity. *IMA Journal of Numerical Analysis*, 39(1):512–544, January 25, 2019. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/39/1/512/4826975.

Cao:2025:MLT

[521] Yanzhao Cao, Thi-Thao-Phuong Hoang, and Phuoc-Toan Huynh. Monolithic and local time-stepping decoupled algorithms for transport problems in fractured porous media. *IMA Journal of Numerical Analysis*, 45(1):283–328, January 2025. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/45/1/283/7638783.

Cao:2018:FEA

[522] Yanzhao Cao, Jialin Hong, and Zhihui Liu. Finite element approximations for second-order stochastic differential equation driven by fractional Brownian motion. *IMA Journal of Numerical Analysis*, 38(1):184–197, January 25, 2018. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/38/1/184/3062450.

Cardenal:1998:SSQ

[523] Jesús Cardenal, Iain S. Duff, and José M. Jiménez. Solution of sparse quasi-square rectangular systems by Gaussian elimination. *IMA Journal of Numerical Analysis*, 18(2):165–177, April 1998. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.

oup.co.uk/imanum/hdb/Volume_18/Issue_02/180165.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_18/Issue_02/pdf/180165.pdf.

Cardenas:2024:HOU

[524] Juan Manuel Cárdenas and Manuel Solano. A high order unfitted hybridizable discontinuous Galerkin method for linear elasticity. *IMA Journal of Numerical Analysis*, 44(2):945–979, March 2024. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/44/2/945/7176048.

Carr:1995:NAM

[525] J. Carr, D. B. Duncan, and C. H. Walshaw. Numerical approximation of a metastable system. *IMA Journal of Numerical Analysis*, 15(4):505–521, 1995. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Carstensen:2016:BAE

[526] C. Carstensen, D. Gallistl, and M. Schedensack. L^2 best approximation of the elastic stress in the Arnold–Winther FEM. *IMA Journal of Numerical Analysis*, 36(3):1096–1119, July 2016. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/36/3/1096.

Carstensen:2017:NFO

[527] C. Carstensen and K. Köhler. Nonconforming FEM for the obstacle problem. *IMA Journal of Numerical Analysis*, 37(1):64–93, January 1, 2017. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL https://academic.oup.com/imajna/article/37/1/64/2669937/Nonconforming-FEM-for-the-obstacle-problem.

Carstensen:2015:MAC

[528] C. Carstensen and M. Schedensack. Medius analysis and comparison results for first-order finite element methods in linear elasticity. *IMA Journal of Numerical Analysis*, 35(4):1591–1621, October 2015. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/35/4/1591.

Carstensen:2008:CAF

[529] Carsten Carstensen. Convergence of an adaptive FEM for a class of degenerate convex minimization problems. *IMA Journal of Numerical Analysis*, 28(3):423–439, July 2008. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/cgi/content/abstract/28/3/423; http://imajna.oxfordjournals.org/cgi/reprint/28/3/423.

Carstensen:2000:CMF

[530] Carsten Carstensen and Stefan A. Funken. Coupling of mixed finite elements and boundary elements. *IMA Journal of Numerical Analysis*, 20(3):461–480, July 2000. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_20/Issue_03/200461.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_20/Issue_03/pdf/200461.pdf.

Carstensen:2019:PPE

[531] Carsten Carstensen, Gouranga Mallik, and Neela Nataraj. A priori and a posteriori error control of discontinuous Galerkin finite element methods for the von Kármán equations. *IMA Journal of Numerical Analysis*, 39(1): 167–200, January 25, 2019. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/39/1/167/4904161`.

Carstensen:2021:NFE

[532] Carsten Carstensen, Gouranga Mallik, and Neela Nataraj. Nonconforming finite element discretization for semilinear problems with trilinear nonlinearity. *IMA Journal of Numerical Analysis*, 41(1):164–205, January 2021. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/41/1/164/5823968`.

Carstensen:2016:CRU

[533] Carsten Carstensen, Neela Nataraj, and Amiya K. Pani. Comparison results and unified analysis for first-order finite volume element methods for a Poisson model problem. *IMA Journal of Numerical Analysis*, 36(3):1120–1142, July 2016. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/36/3/1120`.

Carstensen:1997:SBE

[534] Carsten Carstensen and Peter Wriggers. On the symmetric boundary element method and the symmetric coupling of boundary elements and finite elements. *IMA Journal of Numerical Analysis*, 17(2): 201–238, April 1997. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://www3.oup.co.uk/imanum/hdb/Volume_17/Issue_02/170201.sgm.abs.html`.

Carter:2007:SEE

[535] Rebecca Carter and Michael B. Giles. Sharp error estimates for discretizations of the 1D convection–diffusion equation with Dirac initial data. *IMA Journal of Numerical Analysis*, 27(2):406–425, April 2007. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/cgi/content/abstract/27/2/406`; `http://imajna.oxfordjournals.org/cgi/reprint/27/2/406`.

Cartis:2012:ACR

[536] C. Cartis, N. I. M. Gould, and Ph. L. Toint. An adaptive cubic regularization algorithm for nonconvex optimization with convex constraints and its function-evaluation complexity. *IMA Journal of Numerical Analysis*, 32(4):1662–1695, October 2012. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/32/4/1662.full.pdf+html`.

Carvalhaes:2013:SIN

[537] Claudio G. Carvalhaes. Spline interpolation on nonunisolvent sets. *IMA Journal of Numerical Analysis*, 33 (1):370–375, January 2013. CODEN IJNADH. ISSN 0272-4979 (print),

1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/33/1/370.full.pdf+html.

Casas:2023:EEN

[538] Eduardo Casas, Karl Kunisch, and Mariano Mateos. Error estimates for the numerical approximation of optimal control problems with nonsmooth pointwise-integral control constraints. *IMA Journal of Numerical Analysis*, 43(3):1485–1518, May 2023. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/43/3/1485/6628874.

Cascavita:2020:HHO

[539] Karol L. Cascavita, Franz Chouly, and Alexandre Ern. Hybrid high-order discretizations combined with Nitsche's method for Dirichlet and Signorini boundary conditions. *IMA Journal of Numerical Analysis*, 40(4):2189–2226, October 2020. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/40/4/2189/5618689.

Cascon:2012:QCA

[540] J. Manuel Cascón and Ricardo H. Nochetto. Quasioptimal cardinality of Afem driven by nonresidual estimators. *IMA Journal of Numerical Analysis*, 32(1):1–29, January 2012. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/32/1/1.full.pdf+html.

Cash:1982:MIR

[541] J. R. Cash and A. Singhal. Mono-implicit Runge–Kutta formulae for the numerical integration of stiff differential systems. *IMA Journal of Numerical Analysis*, 2(2):211–227, April 1982. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

CastanonQuiroz:2023:HHO

[542] Daniel Castanon Quiroz, Daniele A. Di Pietro, and André Harnist. A Hybrid High-Order method for incompressible flows of non-Newtonian fluids with power-like convective behaviour. *IMA Journal of Numerical Analysis*, 43(1):144–186, January 2023. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/43/1/144/6456262.

Castro:2008:NAB

[543] Carlos Castro, Sorin Micu, and Arnaud Münch. Numerical approximation of the boundary control for the wave equation with mixed finite elements in a square. *IMA Journal of Numerical Analysis*, 28(1):186–214, January 2008. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/cgi/content/abstract/28/1/186; http://imajna.oxfordjournals.org/cgi/reprint/28/1/186.

Caucao:2016:PPE

[544] Sergio Caucao, David Mora, and Ricardo Oyarzúa. A priori and a posteriori error analysis of a pseudostress-based mixed formulation of the Stokes problem with

varying density. *IMA Journal of Numerical Analysis*, 36(2):947–983, April 2016. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/36/2/947.

Caucao:2021:BSM

[545] Sergio Caucao and Ivan Yotov. A Banach space mixed formulation for the unsteady Brinkman–Forchheimer equations. *IMA Journal of Numerical Analysis*, 41(4):2708–2743, October 2021. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/41/4/2708/5893595.

Caussignac:1988:LCN

[546] Ph. Caussignac and R. Touzani. Linear conforming and nonconforming upwind finite elements for the convection-diffusion equation. *IMA Journal of Numerical Analysis*, 8(1):85–103, 1988. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Cautres:2004:LDD

[547] René Cautrès, Raphaèle Herbin, and Florence Hubert. The Lions domain decomposition algorithm on non-matching cell-centred finite volume meshes. *IMA Journal of Numerical Analysis*, 24(3):465–490, July 2004. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_24/Issue_03/240465.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_24/Issue_03/pdf/240465.pdf.

Cazenave:1998:IFD

[548] Thierry Cazenave and Flávio Dickstein. Implicit finite difference schemes for a linear model of well-reservoir coupling. *IMA Journal of Numerical Analysis*, 18(1):91–120, January 1998. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_18/Issue_01/180091.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_18/Issue_01/pdf/180091.pdf.

Celis:2018:PBA

[549] Oliver Salazar Celis. A parametrized barycentric approximation for inverse problems with application to the Black–Scholes formula. *IMA Journal of Numerical Analysis*, 38(2):976–997, April 18, 2018. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/38/2/976/3836903.

Celledoni:2001:MAM

[550] Elena Celledoni and Arieh Iserles. Methods for the approximation of the matrix exponential in a Lie-algebraic setting. *IMA Journal of Numerical Analysis*, 21(2):463–488, April 2001. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_21/Issue_02/210463abs.pdf; http://www3.oup.co.uk/imanum/hdb/Volume_21/Issue_02/pdf/210463.pdf.

Cen:2024:HNN

[551] Siyu Cen, Bangti Jin, Qimeng Quan, and Zhi Zhou. Hybrid neural-network

FEM approximation of diffusion coefficient in elliptic and parabolic problems. *IMA Journal of Numerical Analysis*, 44(5):3059–3093, September 2024. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/44/5/3059/7276579`.

Cermak:2011:SAP

[552] Jan Cermák. The stability and asymptotic properties of the Θ-methods for the pantograph equation. *IMA Journal of Numerical Analysis*, 31(4):1533–1551, October 2011. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/31/4/1533.full.pdf+html`.

Chadha:2011:RGE

[553] Naresh M. Chadha and Natalia Kopteva. A robust grid equidistribution method for a one-dimensional singularly perturbed semilinear reaction–diffusion problem. *IMA Journal of Numerical Analysis*, 31(1):188–211, January 2011. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/31/1/188.full.pdf+html`.

Chainais-Hillairet:2011:FVS

[554] Claire Chainais-Hillairet and Jérôme Droniou. Finite-volume schemes for noncoercive elliptic problems with Neumann boundary conditions. *IMA Journal of Numerical Analysis*, 31(1):61–85, January 2011. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/31/1/61.full.pdf+html`.

Chainais-Hillairet:2007:ABF

[555] Claire Chainais-Hillairet and Francis Filbet. Asymptotic behaviour of a finite-volume scheme for the transient drift-diffusion model. *IMA Journal of Numerical Analysis*, 27(4):689–716, October 2007. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/cgi/content/abstract/27/4/689`; `http://imajna.oxfordjournals.org/cgi/reprint/27/4/689`.

Chainais-Hillairet:2020:LTB

[556] Claire Chainais-Hillairet and Maxime Herda. Large-time behaviour of a family of finite volume schemes for boundary-driven convection-diffusion equations. *IMA Journal of Numerical Analysis*, 40(4):2473–2504, October 2020. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/40/4/2473/5621367`.

Chainais-Hillairet:2003:CFV

[557] Claire Chainais-Hillairet and Yue-Jun Peng. Convergence of a finite-volume scheme for the drift-diffusion equations in 1D. *IMA Journal of Numerical Analysis*, 23(1):81–108, January 2003. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://www3.oup.co.uk/imanum/hdb/Volume_23/Issue_01/230081.sgm.abs.html`; `http://www3.oup.co.uk/imanum/hdb/Volume_23/Issue_01/pdf/230081.pdf`.

Chalabi:1992:SUS

[558] A. Chalabi. Stable upwind schemes for hyperbolic conservation laws with source terms. *IMA Journal of Numerical Analysis*, 12(2):217–241, 1992. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Challis:1982:NMC

[559] N. V. Challis and D. M. Burley. A numerical method for conformal mapping. *IMA Journal of Numerical Analysis*, 2 (2):169–181, April 1982. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Chamberlain:1988:FLL

[560] R. M. Chamberlain and M. J. D. Powell. QR factorization for linear least-squares problems on a hypercube multiprocessor. *IMA Journal of Numerical Analysis*, 8(4):401–413, October 1988. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Chan:1991:TPT

[561] Raymond H. Chan. Toeplitz preconditioners for Toeplitz systems with nonnegative generating functions. *IMA Journal of Numerical Analysis*, 11(3): 333–345, 1991. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Chan:2001:STP

[562] Raymond H. Chan, Michael K. Ng, and Xiao-Qing Jin. Strang-type preconditioners for systems of L.M.F.-based O.D.E. codes. *IMA Journal of Numerical Analysis*, 21(2): 451–462, April 2001. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://www3.oup.co.uk/imanum/hdb/Volume_21/Issue_02/210451.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_21/Issue_02/pdf/210451.pdf`.

Chandler:1987:UCG

[563] G. A. Chandler and I. G. Graham. Uniform convergence of Galerkin solutions to noncompact integral operator equations. *IMA Journal of Numerical Analysis*, 7(3):327–334, 1987. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Chandler-Wilde:1993:SUS

[564] S. N. Chandler-Wilde. Some uniform stability and convergence results for integral equations on the real line and projection methods for their solution. *IMA Journal of Numerical Analysis*, 13(4):509–535, 1993. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Chandler-Wilde:1989:AGT

[565] S. N. Chandler-Wilde and M. J. C. Gover. On the application of a generalization of Toeplitz matrices to the numerical solution of integral equations with weakly singular convolution kernels. *IMA Journal of Numerical Analysis*, 9(4):525–544, 1989. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Chang:1996:NPA

[566] Xiao-Wen Chang, Christopher C. Paige, and G. W. Stewart. New perturbation analyses for the Cholesky factorization. *IMA Journal of Numerical Analysis*, 16(4):457–484, October 1996. CODEN IJNADH.

ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_16/Issue_04/160457.sgm.abs.html.

Chapko:2000:NSH

[567] Roman Chapko, Rainer Kress, and Lars Monch. On the numerical solution of a hypersingular integral equation for elastic scattering from a planar crack. *IMA Journal of Numerical Analysis*, 20(4):601–619, October 2000. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_20/Issue_04/200601.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_20/Issue_04/pdf/200601.pdf.

Chappell:2011:CQG

[568] David J. Chappell. Convolution quadrature Galerkin boundary element method for the wave equation with reduced quadrature weight computation. *IMA Journal of Numerical Analysis*, 31(2):640–666, April 2011. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/31/2/640.full.pdf+html.

Charbonneau:2010:WCP

[569] Benoit Charbonneau, Yuriy Svyrydov, and P. F. Tupper. Weak convergence in the Prokhorov metric of methods for stochastic differential equations. *IMA Journal of Numerical Analysis*, 30(2):579–594, April 2010. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/cgi/content/abstract/30/2/579; http://imajna.oxfordjournals.org/cgi/reprint/30/2/579.

Chartier:2022:DFH

[570] Philippe Chartier, Mohammed Lemou, Florian Méhats, and Xiaofei Zhao. Derivative-free high-order uniformly accurate schemes for highly oscillatory systems. *IMA Journal of Numerical Analysis*, 42(2):1623–1644, April 2022. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/42/2/1623/6260882.

Chartier:2007:PFI

[571] Philippe Chartier and Ander Murua. Preserving first integrals and volume forms of additively split systems. *IMA Journal of Numerical Analysis*, 27(2):381–405, April 2007. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/cgi/content/abstract/27/2/381; http://imajna.oxfordjournals.org/cgi/reprint/27/2/381.

Chassagneux:2023:LSS

[572] Jean-François Chassagneux, Junchao Chen, Noufel Frikha, and Chao Zhou. A learning scheme by sparse grids and Picard approximations for semilinear parabolic PDEs. *IMA Journal of Numerical Analysis*, 43(5):3109–3168, September 2023. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/43/5/3109/6795270.

Chatterjee:2020:CFV

[573] N. Chatterjee and U. S. Fjordholm. A convergent finite volume method for the Kuramoto equation and related nonlocal conservation laws. *IMA Journal of Numerical Analysis*, 40(1):405–421, January 2020. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/40/1/405/5162417.

Chau:2018:WBS

[574] Ki Wai Chau and Cornelis W. Oosterlee. On the wavelet-based SWIFT method for backward stochastic differential equations. *IMA Journal of Numerical Analysis*, 38(2):1051–1083, April 18, 2018. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/38/2/1051/3947812.

Chaumont-Frelet:2025:EEM

[575] T. Chaumont-Frelet. An equilibrated estimator for mixed finite element discretizations of the curl–curl problem. *IMA Journal of Numerical Analysis*, 45 (1):329–353, January 2025. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/45/1/329/7675402.

Chaumont-Frelet:2020:WEC

[576] T. Chaumont-Frelet and S. Nicaise. Wavenumber explicit convergence analysis for finite element discretizations of general wave propagation problems. *IMA Journal of Numerical Analysis*, 40 (2):1503–1543, April 2020. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/40/2/1503/5487770.

Chavez:2012:DDS

[577] Joseph Páez Chávez. Discretizing dynamical systems with Hopf–Hopf bifurcations. *IMA Journal of Numerical Analysis*, 32(1):185–201, January 2012. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/32/1/185.full.pdf+html.

Chawla:1983:NFO

[578] M. M. Chawla. A new fourth-order finite-difference method for computing eigenvalues of fourth-order two-point boundary value problems. *IMA Journal of Numerical Analysis*, 3(3):291–293, 1983. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Chawla:1984:FDM

[579] M. M. Chawla and C. P. Katti. A finite-difference method for a class of singular two-point boundary value problems. *IMA Journal of Numerical Analysis*, 4 (4):457–466, October 1984. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Chawla:1985:HAS

[580] M. M. Chawla and P. S. Rao. High-accuracy P-stable methods for $y'' = f(t, y)$. *IMA Journal of Numerical Analysis*, 5(2):215–220, 1985. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). See corrigendum [581].

Chawla:1986:CHA

[581] M. M. Chawla and P. S. Rao. Corrigendum: "High-accuracy P-stable methods for $y'' = f(t, y)$" [IMA J. Numer. Anal. **5** (1985), no. 2, 215–220; MR 87c:65078]". *IMA Journal of Numerical Analysis*, 6(2):252, 1986. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). See [580].

Chegini:2012:ATP

[582] Nabi Chegini and Rob Stevenson. The adaptive tensor product wavelet scheme: sparse matrices and the application to singularly perturbed problems. *IMA Journal of Numerical Analysis*, 32(1):75–104, January 2012. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/32/1/75.full.pdf+html.

Chen:2012:MCA

[583] Caihua Chen, Bingsheng He, and Xiaoming Yuan. Matrix completion via an alternating direction method. *IMA Journal of Numerical Analysis*, 32(1):227–245, January 2012. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/32/1/227.full.pdf+html.

Chen:2023:EID

[584] Cairong Chen, Dongmei Yu, and Deren Han. Exact and inexact Douglas–Rachford splitting methods for solving large-scale sparse absolute value equations. *IMA Journal of Numerical Analysis*, 43(2):1036–1060, March 2023. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/43/2/1036/6526317.

Chen:1989:EEO

[585] Chuan Miao Chen, Stig Larsson, and Nai Ying Zhang. Error estimates of optimal order for finite element methods with interpolated coefficients for the nonlinear heat equation. *IMA Journal of Numerical Analysis*, 9(4):507–524, 1989. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Chen:2023:AEE

[586] Chuchu Chen, Jianbo Cui, Jialin Hong, and Derui Sheng. Accelerated exponential Euler scheme for stochastic heat equation: convergence rate of the density. *IMA Journal of Numerical Analysis*, 43(2):1181–1220, March 2023. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/43/2/1181/6567223.

Chen:2025:SCA

[587] Chuchu Chen, Tonghe Dang, and Jialin Hong. Strong convergence of adaptive time-stepping schemes for the stochastic Allen–Cahn equation. *IMA Journal of Numerical Analysis*, 45(1):404–450, January 2025. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/45/1/404/7664606.

Chen:2025:SME

[588] Chuchu Chen, Jialin Hong, and Chuying Huang. Stochastic modified equations for symplectic methods applied

to rough Hamiltonian systems. *IMA Journal of Numerical Analysis*, 45 (2):894–933, March 2025. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/45/2/894/7676802.

Chen:2017:MSC

[589] Chuchu Chen, Jialin Hong, and Lihai Ji. Mean-square convergence of a symplectic local discontinuous Galerkin method applied to stochastic linear Schrödinger equation. *IMA Journal of Numerical Analysis*, 37 (2):1041–1065, April 2017. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL https://academic.oup.com/imajna/article/37/2/1041/2669981/Mean-square-convergence-of-a-symplectic-local.

Chen:2020:EEH

[590] Gang Chen and Jintao Cui. On the error estimates of a hybridizable discontinuous Galerkin method for second-order elliptic problem with discontinuous coefficients. *IMA Journal of Numerical Analysis*, 40(2): 1577–1600, April 2020. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/40/2/1577/5305590.

Chen:2021:AIP

[591] Gang Chen, Weifeng Qiu, and Liwei Xu. Analysis of an interior penalty DG method for the quad-curl problem. *IMA Journal of Numerical Analysis*, 41 (4):2990–3023, October 2021. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/41/4/2990/5891958.

Chen:2017:LFE

[592] Hongtao Chen, Hailong Guo, Zhimin Zhang, and Qingsong Zou. A C^0 linear finite element method for two fourth-order eigenvalue problems. *IMA Journal of Numerical Analysis*, 37(4): 2120–2138, October 1, 2017. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL https://academic.oup.com/imajna/article/37/4/2120/2422320.

Chen:2021:BEE

[593] Hu Chen and Martin Stynes. Blow-up of error estimates in time-fractional initial-boundary value problems. *IMA Journal of Numerical Analysis*, 41 (2):974–997, April 2021. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/41/2/974/5843621.

Chen:2016:RPE

[594] Huangxin Chen, Jingzhi Li, and Weifeng Qiu. Robust a posteriori error estimates for HDG method for convection–diffusion equations. *IMA Journal of Numerical Analysis*, 36(1):437–462, January 2016. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/36/1/437.

Chen:2011:NSC

[595] Jinhai Chen and Matthias Gerdts. Numerical solution of control-state constrained optimal control problems

with an inexact smoothing Newton method. *IMA Journal of Numerical Analysis*, 31(4):1598–1624, October 2011. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/31/4/1598.full.pdf+html.

Chen:2004:AIQ

[596] Journal Shaochun Chen, Dongyang Shi, and Yongcheng Zhao. Anisotropic interpolation and quasi-Wilson element for narrow quadrilateral meshes. *IMA Journal of Numerical Analysis*, 24(1): 77–95, January 2004. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_24/Issue_01/240077.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_24/Issue_01/pdf/240077.pdf.

Chen:1993:NAB

[597] Ke Chen and S. Amini. Numerical analysis of boundary integral solution of the Helmholtz equation in domains with nonsmooth boundaries. *IMA Journal of Numerical Analysis*, 13(1):43–66, 1993. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Chen:2006:TLS

[598] Ke Chen and Martyn D. Hughes. A two-level sparse approximate inverse preconditioner for unsymmetric matrices. *IMA Journal of Numerical Analysis*, 26(1):11–24, January 2006. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imanum.oxfordjournals.org/cgi/content/abstract/26/1/11; http://imanum.oxfordjournals.org/cgi/reprint/26/1/11.

Chen:2004:SUM

[599] Mayru Chen and Ming-Chia Li. Stability of uniformly Morse–Smale gradient-like numerical methods for flows. *IMA Journal of Numerical Analysis*, 24(4):577–585, October 2004. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imanum.oupjournals.org/cgi/content/abstract/24/4/577; http://imanum.oupjournals.org/cgi/reprint/24/4/577.

Chen:2021:SEE

[600] Minghua Chen, Wenya Qi, Jiankang Shi, and Jiming Wu. A sharp error estimate of piecewise polynomial collocation for nonlocal problems with weakly singular kernels. *IMA Journal of Numerical Analysis*, 41(4):3145–3174, October 2021. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/41/4/3145/5894150.

Chen:2022:LOF

[601] Sheng Chen and Jie Shen. Log orthogonal functions: approximation properties and applications. *IMA Journal of Numerical Analysis*, 42(1):712–743, January 2022. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/42/1/712/6041854.

Chen:2016:WGM

[602] Wenbin Chen, Fang Wang, and Yanqiu Wang. Weak Galerkin method for the

coupled Darcy–Stokes flow. *IMA Journal of Numerical Analysis*, 36(2):897–921, April 2016. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/36/2/897.

Chen:2022:EED

[603] Wenbin Chen, Shufen Wang, Yichao Zhang, Daozhi Han, Cheng Wang, and Xiaoming Wang. Error estimate of a decoupled numerical scheme for the Cahn–Hilliard-Stokes–Darcy system. *IMA Journal of Numerical Analysis*, 42(3):2621–2655, July 2022. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/42/3/2621/6307434.

Chen:2012:CEB

[604] Xiaojun Chen and Zhengyu Wang. Computational error bounds for a differential linear variational inequality. *IMA Journal of Numerical Analysis*, 32(3):957–982, July 2012. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/32/3/957.full.pdf+html.

Chen:2024:ESI

[605] Xingyuan Chen and Gonçalo dos Reis. Euler simulation of interacting particle systems and McKean–Vlasov SDEs with fully super-linear growth drifts in space and interaction. *IMA Journal of Numerical Analysis*, 44(2):751–796, March 2024. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/44/2/751/7158522.

Chen:2012:AVD

[606] Yanlai Chen and Bernardo Cockburn. Analysis of variable-degree Hdg methods for convection-diffusion equations. Part I: general nonconforming meshes. *IMA Journal of Numerical Analysis*, 32(4):1267–1293, October 2012. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/32/4/1267.full.pdf+html.

Chen:2016:NDG

[607] Yanlai Chen, Bernardo Cockburn, and Bo Dong. A new discontinuous Galerkin method, conserving the discrete H^2-norm, for third-order linear equations in one space dimension. *IMA Journal of Numerical Analysis*, 36(4):1570–1598, October 2016. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/36/4/1570.

Chen:2024:ACS

[608] Yiwen Chen and Warren Hare. Adapting the centred simplex gradient to compensate for misaligned sample points. *IMA Journal of Numerical Analysis*, 44(3):1821–1861, May 2024. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/44/3/1821/7225158.

Chen:2014:AMM

[609] Yung-Wei Chen, Chun-Ming Chang, Chein-Shan Liu, and Jiang-Ren Chang.

Application of a modified manifold-based exponentially convergent algorithm to solve elliptic boundary-value problems. *IMA Journal of Numerical Analysis*, 34(1):362–389, January 2014. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/34/1/362.full.pdf+html.

Chen:1994:EEF

[610] Zhi Ming Chen and K.-H. Hoffmann. An error estimate for a finite-element scheme for a phase field model. *IMA Journal of Numerical Analysis*, 14(2): 243–255, 1994. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Chen:2000:NMS

[611] Zhiming Chen, Tsimin Shih, and Xingye Yue. Numerical methods for Stefan problems with prescribed convection and nonlinear flux. *IMA Journal of Numerical Analysis*, 20(1): 81–98, January 2000. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_20/Issue_01/200081.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_20/Issue_01/pdf/200081.pdf.

Chen:2022:LSP

[612] Zhongwen Chen, Yu-Hong Dai, and Tauyou Zhang. A line search penalty-free SQP method for equality-constrained optimization without Maratos effect. *IMA Journal of Numerical Analysis*, 42(4):3771–3802, October 2022. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/42/4/3771/6501117.

Cheng:2009:DFN

[613] Wanyou Cheng and Dong-Hui Li. A derivative-free nonmonotone line search and its application to the spectral residual method. *IMA Journal of Numerical Analysis*, 29(3):814–825, July 2009. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/cgi/content/abstract/29/3/814; http://imajna.oxfordjournals.org/cgi/reprint/29/3/814.

Chernih:2014:MMC

[614] A. Chernih and Q. T. Le Gia. Multiscale methods with compactly supported radial basis functions for Galerkin approximation of elliptic PDEs. *IMA Journal of Numerical Analysis*, 34(2):569–591, April 2014. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/34/2/569.full.pdf+html.

Chernov:2019:HVE

[615] Alexey Chernov and Lorenzo Mascotto. The harmonic virtual element method: stabilization and exponential convergence for the Laplace problem on polygonal domains. *IMA Journal of Numerical Analysis*, 39(4): 1787–1817, October 2019. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/39/4/1787/5038894.

Cheung:2001:FEA

[616] C. W. Cheung and C.-H. Lai. On a flexible elimination algorithm with applications to panel element equations. *IMA Journal of Numerical Analysis*, 21 (2):603–619, April 2001. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_21/Issue_02/210603.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_21/Issue_02/pdf/210603.pdf.

Cheung:2015:SAC

[617] Dennis Cheung and Felipe Cucker. Smoothed analysis of componentwise condition numbers for sparse matrices. *IMA Journal of Numerical Analysis*, 35(1):74–88, January 2015. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/35/1/74.

Chiang:1994:POS

[618] Yi-Ling F. Chiang. Properties of optimal schemes for linear 1D PDE initial value hyperbolic problems with variable coefficients. *IMA Journal of Numerical Analysis*, 14(2):211–232, 1994. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Chien:1997:DGM

[619] David Da-Kwun Chien and Kendall Atkinson. A discrete Galerkin method for a hypersingular boundary integral equation. *IMA Journal of Numerical Analysis*, 17(3): 463–478, July 1997. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_17/Issue_03/170463.sgm.abs.html.

Chin:2011:MPO

[620] Siu A. Chin and Jürgen Geiser. Multi-product operator splitting as a general method of solving autonomous and nonautonomous equations. *IMA Journal of Numerical Analysis*, 31(4):1552–1577, October 2011. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/31/4/1552.full.pdf+html.

Cho:2020:BPI

[621] Durkbin Cho and Rafael Vázquez. BPX preconditioners for isogeometric analysis using analysis-suitable T-splines. *IMA Journal of Numerical Analysis*, 40(1):764–799, January 2020. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/40/1/764/5036562.

Choquet:2011:AFV

[622] Catherine Choquet and Sébastien Zimmermann. Analysis of a finite-volume–finite-element scheme for a nuclear transport model. *IMA Journal of Numerical Analysis*, 31(1):86–115, January 2011. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/31/1/86.full.pdf+html.

Chouly:2018:RBP

[623] Franz Chouly, Mathieu Fabre, Patrick Hild, Jérôme Pousin, and Yves Renard. Residual-based a posteriori error estimation for contact problems ap-

proximated by Nitsche's method. *IMA Journal of Numerical Analysis*, 38(2): 921–954, April 18, 2018. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/38/2/921/3871418`.

Chowdhury:2025:PEB

[624] Indranil Chowdhury and Espen R. Jakobsen. Precise error bounds for numerical approximations of fractional HJB equations. *IMA Journal of Numerical Analysis*, 45(2):633–672, March 2025. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/45/2/633/7691186`.

Christiansen:2024:DCR

[625] Snorre H. Christiansen. On the definition of curvature in Regge calculus. *IMA Journal of Numerical Analysis*, 44(5):2698–2715, September 2024. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/44/5/2698/7502804`.

Christiansen:2011:DMK

[626] Snorre H. Christiansen and Tore Gunnar Halvorsen. Discretizing the Maxwell–Klein–Gordon equation by the lattice gauge theory formalism. *IMA Journal of Numerical Analysis*, 31(1):1–24, January 2011. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/31/1/1.full.pdf+html`.

Christiansen:2013:VEA

[627] Snorre H. Christiansen and Ragnar Winther. On variational eigenvalue approximation of semidefinite operators. *IMA Journal of Numerical Analysis*, 33(1):164–189, January 2013. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/33/1/164.full.pdf+html`.

Christianson:1992:AHR

[628] Bruce Christianson. Automatic Hessians by reverse accumulation. *IMA Journal of Numerical Analysis*, 12(2): 135–150, 1992. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Christie:1981:PAN

[629] I. Christie, D. F. Griffiths, A. R. Mitchell, and J. M. Sanz-Serna. Product approximation for nonlinear problems in the finite element method. *IMA Journal of Numerical Analysis*, 1(3):253–266, 1981. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Christie:1991:ERS

[630] I. Christie and C. Palencia. An exact Riemann solver for a fluidized bed model. *IMA Journal of Numerical Analysis*, 11(4):493–508, 1991. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Chu:1990:SAI

[631] Moody T. Chu. Solving additive inverse eigenvalue problems for symmetric matrices by the homotopy method.

IMA Journal of Numerical Analysis, 10(3):331–342, 1990. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Chu:2024:LDC

[632] Moody T. Chu. Lax dynamics for Cartan decomposition with applications to Hamiltonian simulation. *IMA Journal of Numerical Analysis*, 44 (3):1406–1434, May 2024. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/44/3/1406/7136026.

Chu:2015:FRF

[633] Moody T. Chu and Matthew M. Lin. On the finite rank and finite-dimensional representation of bounded semi-infinite Hankel operators. *IMA Journal of Numerical Analysis*, 35(3):1256–1276, July 2015. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/35/3/1256.

Chu:1995:ETP

[634] Moody T. Chu and Joel W. Wright. The educational testing problem revisited. *IMA Journal of Numerical Analysis*, 15(1):141–160, 1995. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Chu:2018:HDF

[635] Van Tiep Chu and Viet Ha Hoang. High-dimensional finite elements for multiscale Maxwell-type equations. *IMA Journal of Numerical Analysis*, 38(1):227–270, January 25, 2018. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/38/1/227/3063754.

Chung:2012:SDG

[636] Eric T. Chung and Chak Shing Lee. A staggered discontinuous Galerkin method for the curl-curl operator. *IMA Journal of Numerical Analysis*, 32(3):1241–1265, July 2012. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/32/3/1241.full.pdf+html.

Cifani:2011:DGM

[637] Simone Cifani, Espen R. Jakobsen, and Kenneth H. Karlsen. The discontinuous Galerkin method for fractal conservation laws. *IMA Journal of Numerical Analysis*, 31(3):1090–1122, July 2011. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/31/3/1090.full.pdf+html.

Cimrak:2005:EES

[638] Ivan Cimrák. Error estimates for a semi-implicit numerical scheme solving the Landau–Lifshitz equation with an exchange field. *IMA Journal of Numerical Analysis*, 25(3):611–634, July 2005. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imanum.oxfordjournals.org/cgi/content/abstract/25/3/611; http://imanum.oxfordjournals.org/cgi/reprint/25/3/611.

Claeys:2023:NIG

[639] X. Claeys. Nonselfadjoint impedance in Generalized Optimized Schwarz Methods. *IMA Journal of Numerical Analysis*, 43(5):3026–3054, September 2023. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/43/5/3026/6768221.

Clark:1988:LRI

[640] D. I. Clark and M. R. Osborne. On linear restricted and interval least-squares problems. *IMA Journal of Numerical Analysis*, 8(1):23–36, 1988. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Clavero:2006:UCA

[641] C. Clavero, J. L. Gracia, and J. C. Jorge. A uniformly convergent alternating direction HODIE finite difference scheme for 2D time-dependent convection–diffusion problems. *IMA Journal of Numerical Analysis*, 26(1):155–172, January 2006. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imanum.oxfordjournals.org/cgi/content/abstract/26/1/155; http://imanum.oxfordjournals.org/cgi/reprint/26/1/155.

Clavero:2000:ADS

[642] C. Clavero, J. C. Jorge, F. Lisbona, and G. I. Shishkin. An alternating direction scheme on a nonuniform mesh for reaction-diffusion parabolic problems. *IMA Journal of Numerical Analysis*, 20(2):263–280, April 2000. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_20/Issue_02/200263.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_20/Issue_02/pdf/200263.pdf.

Clenshaw:1988:SLI

[643] C. W. Clenshaw and P. R. Turner. The symmetric level-index system. *IMA Journal of Numerical Analysis*, 8(4):517–526, October 1988. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Coatleven:2024:USS

[644] Julien Coatléven. Unconditionally stable small stencil enriched multiple point flux approximations of heterogeneous diffusion problems on general meshes. *IMA Journal of Numerical Analysis*, 44(6):3435–3481, November 2024. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/44/6/3435/7450352.

Cockburn:2014:MHM

[645] B. Cockburn, O. Dubois, J. Gopalakrishnan, and S. Tan. Multigrid for an HDG method. *IMA Journal of Numerical Analysis*, 34(4):1386–1425, October 2014. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/34/4/1386.

Cockburn:2018:DSH

[646] Bernardo Cockburn and Guosheng Fu. Devising superconvergent HDG methods with symmetric approximate stresses for linear elasticity by M-decompositions. *IMA Journal of Numerical Analysis*, 38(2):566–604, April

18, 2018. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/38/2/566/3861276.

Cockburn:2017:NDS

[647] Bernardo Cockburn, Guosheng Fu, and Weifeng Qiu. A note on the devising of superconvergent HDG methods for Stokes flow by M-decompositions. *IMA Journal of Numerical Analysis*, 37(2):730–749, April 2017. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL https://academic.oup.com/imajna/article/37/2/730/2669997/A-note-on-the-devising-of-superconvergent-HDG.

Cockburn:2012:DSC

[648] Bernardo Cockburn and Francisco-Javier Sayas. The devising of symmetric couplings of boundary element and discontinuous Galerkin methods. *IMA Journal of Numerical Analysis*, 32(3): 765–794, July 2012. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/32/3/765.full.pdf+html.

Cockburn:2022:EPE

[649] Bernardo Cockburn and Shiqiang Xia. An *a priori* error analysis of adjoint-based super-convergent Galerkin approximations of linear functionals. *IMA Journal of Numerical Analysis*, 42 (2):1050–1086, April 2022. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/42/2/1050/6104058.

Coclite:2008:NSC

[650] G. M. Coclite, K. H. Karlsen, and N. H. Risebro. Numerical schemes for computing discontinuous solutions of the Degasperis–Procesi equation. *IMA Journal of Numerical Analysis*, 28(1):80–105, January 2008. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/cgi/content/abstract/28/1/80; http://imajna.oxfordjournals.org/cgi/reprint/28/1/80.

Cocozza-Thivent:2006:FVS

[651] C. Cocozza-Thivent, R. Eymard, and S. Mercier. A finite-volume scheme for dynamic reliability models. *IMA Journal of Numerical Analysis*, 26(3): 446–471, July 2006. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://comjnl.oxfordjournals.org/cgi/content/abstract/26/3/446; http://comjnl.oxfordjournals.org/cgi/reprint/26/3/446.

Cocozza-Thivent:2017:NMP

[652] Christiane Cocozza-Thivent, Robert Eymard, Ludovic Goudenège, and Michel Roussignol. Numerical methods for piecewise deterministic Markov processes with boundary. *IMA Journal of Numerical Analysis*, 37(1):170–208, January 1, 2017. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL https://academic.oup.com/imajna/article/37/1/170/2884282/Numerical-methods-for-piecewise-deterministic.

Codenotti:1989:NQI

[653] B. Codenotti and F. Romani. A note on quadrant interlocking factorization. *IMA Journal of Numerical Analysis*, 9(2):139–143, 1989. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Cohen:2016:KWU

[654] Albert Cohen and Ronald DeVore. Kolmogorov widths under holomorphic mappings. *IMA Journal of Numerical Analysis*, 36(1):1–12, January 2016. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/36/1/1.

Cohen:2006:CPN

[655] David Cohen. Conservation properties of numerical integrators for highly oscillatory Hamiltonian systems. *IMA Journal of Numerical Analysis*, 26(1):34–59, January 2006. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imanum.oxfordjournals.org/cgi/content/abstract/26/1/34; http://imanum.oxfordjournals.org/cgi/reprint/26/1/34.

Cohen:2016:FDA

[656] David Cohen and Lluís Quer-Sardanyons. A fully discrete approximation of the one-dimensional stochastic wave equation. *IMA Journal of Numerical Analysis*, 36(1):400–420, January 2016. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/36/1/400.

Colbrook:2020:EUT

[657] Matthew J. Colbrook. Extending the unified transform: curvilinear polygons and variable coefficient PDEs. *IMA Journal of Numerical Analysis*, 40(2):976–1004, April 2020. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/40/2/976/5210368.

Coleman:1989:ENM

[658] John P. Coleman. Errata for: "Numerical methods for $y'' = f(x, y)$ via rational approximations for the cosine" [IMA J. Numer. Anal. **9** (1989), no. 2, 145–165; MR 90i:65130]. *IMA Journal of Numerical Analysis*, 9(4):i, 1989. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). See [659].

Coleman:1989:NMR

[659] John P. Coleman. Numerical methods for $y'' = f(x, y)$ via rational approximations for the cosine. *IMA Journal of Numerical Analysis*, 9(2):145–165, 1989. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). See errata [658].

Coleman:2003:OCC

[660] John P. Coleman. Order conditions for a class of two-step methods for $y' = f(x, y)$. *IMA Journal of Numerical Analysis*, 23(2):197–220, April 2003. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_23/

Issue_02/230197.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_23/Issue_02/pdf/230197.pdf.

Coleman:1996:SEF

[661] John P. Coleman and Liviu Gr. Ixaru. P-stability and exponential-fitting methods for $y' = f(x, y)$. *IMA Journal of Numerical Analysis*, 16(2): 179–199, April 1996. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_16/Issue_02/160179.sgm.abs.html.

Colombini:2015:NAV

[662] F. Colombini and J. Rauch. Numerical analysis of very weakly well-posed hyperbolic Cauchy problems. *IMA Journal of Numerical Analysis*, 35(3):989–1010, July 2015. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/35/3/989.

Congreve:2025:EAL

[663] Scott Congreve, Vít Dolejší, and Sunčica Sakić. Error analysis for local discontinuous Galerkin semidiscretization of Richards' equation. *IMA Journal of Numerical Analysis*, 45(1):580–630, January 2025. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/45/1/580/7668414.

Congreve:2013:DGF

[664] Scott Congreve, Paul Houston, Endre Süli, and Thomas P. Wihler. Discontinuous Galerkin finite element approximation of quasilinear elliptic boundary value problems II: strongly monotone quasi-Newtonian flows. *IMA Journal of Numerical Analysis*, 33(4):1386–1415, October 2013. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/33/4/1386.full.pdf+html.

Conn:2008:GSS

[665] Andrew R. Conn, Katya Scheinberg, and Luís N. Vicente. Geometry of sample sets in derivative-free optimization: polynomial regression and underdetermined interpolation. *IMA Journal of Numerical Analysis*, 28 (4):721–748, October 2008. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/cgi/content/abstract/28/4/721.

Coope:1993:CIN

[666] Ian D. Coope. Curve interpolation with nonlinear spiral splines. *IMA Journal of Numerical Analysis*, 13(3):327–341, 1993. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Cooper:1984:GAS

[667] G. J. Cooper. A generalization of algebraic stability for Runge–Kutta methods. *IMA Journal of Numerical Analysis*, 4(4):427–440, October 1984. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Cooper:1986:ESA

[668] G. J. Cooper. On the existence of solutions for algebraically stable Runge–Kutta methods. *IMA Journal of Numerical Analysis*, 6(3):325–330, 1986.

CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Cooper:1987:SRK

[669] G. J. Cooper. Stability of Runge–Kutta methods for trajectory problems. *IMA Journal of Numerical Analysis*, 7(1):1–13, 1987. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Cooper:1992:WNS

[670] G. J. Cooper. Weak nonlinear stability of implicit Runge–Kutta methods. *IMA Journal of Numerical Analysis*, 12(1):57–65, 1992. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Cooper:1983:ISI

[671] G. J. Cooper and J. C. Butcher. An iteration scheme for implicit Runge–Kutta methods. *IMA Journal of Numerical Analysis*, 3(2):127–140, 1983. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Coppe:2022:ASA

[672] Vincent Coppé and Daan Huybrechs. On the adaptive spectral approximation of functions using redundant sets and frames. *IMA Journal of Numerical Analysis*, 42(1):27–53, January 2022. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/42/1/27/6125994`.

Coquel:2012:CTS

[673] Frédéric Coquel, Marie Postel, and Quang-Huy Tran. Convergence of time-space adaptive algorithms for nonlinear conservation laws. *IMA Journal of Numerical Analysis*, 32(4):1440–1483, October 2012. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/32/4/1440.full.pdf+html`.

Coquereaux:1990:IMC

[674] R. Coquereaux, A. Grossmann, and B. E. Lautrup. Iterative method for calculation of the Weierstrass elliptic function. *IMA Journal of Numerical Analysis*, 10(1):119–128, January 1990. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Coughlan:2007:TLM

[675] James J. Coughlan, Adrian T. Hill, and Hartmut Logemann. The $\mathcal{Z}$-transform and linear multistep stability. *IMA Journal of Numerical Analysis*, 27(1):45–73, January 2007. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/cgi/content/abstract/27/1/45`; `http://imajna.oxfordjournals.org/cgi/reprint/27/1/45`.

Coulombel:2023:SSF

[676] Jean-François Coulombel and Grégory Faye. Sharp stability for finite difference approximations of hyperbolic equations with boundary conditions. *IMA Journal of Numerical Analysis*, 43(1):187–224, January 2023. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/43/1/187/6433423`.

Courtes:2020:EEF

[677] Clémentine Courtès, Frédéric Lagoutière, and Frédéric Rousset. Error estimates of finite difference schemes for the Korteweg–de Vries equation. *IMA Journal of Numerical Analysis*, 40 (1):628–685, January 2020. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/40/1/628/5228663.

Cox:1981:LSS

[678] M. G. Cox. The least squares solution of overdetermined linear equations having band or augmented band structure. *IMA Journal of Numerical Analysis*, 1(1):3–22, 1981. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Cox:1982:DVI

[679] M. G. Cox. Direct versus iterative methods of solution for multivariate spline-fitting problems. *IMA Journal of Numerical Analysis*, 2(1): 73–81, January 1982. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Cox:1991:ACB

[680] M. G. Cox and P. M. Harris. The approximation of a composite Bézier cubic curve by a composite Bézier quadratic curve. *IMA Journal of Numerical Analysis*, 11(2):159–180, 1991. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Cox:1985:LSS

[681] M. G. Cox and P. E. Manneback. Least-squares spline regression with block-diagonal variance matrices. *IMA Journal of Numerical Analysis*, 5(3): 275–286, 1985. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Cox:1989:ALS

[682] Maurice G. Cox and Helen M. Jones. An algorithm for least-squares circle fitting to data with specified uncertainty ellipses. *IMA Journal of Numerical Analysis*, 9(3):285–298, 1989. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Cox:2021:CHN

[683] Sonja Cox, Martin Hutzenthaler, Arnulf Jentzen, Jan van Neerven, and Timo Welti. Convergence in Hölder norms with applications to Monte Carlo methods in infinite dimensions. *IMA Journal of Numerical Analysis*, 41 (1):493–548, January 2021. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/41/1/493/5831480.

Cozma:2020:SOC

[684] Andrei Cozma and Christoph Reisinger. Strong order 1/2 convergence of full truncation Euler approximations to the Cox–Ingersoll–Ross process. *IMA Journal of Numerical Analysis*, 40 (1):358–376, January 2020. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/40/1/358/5146428.

Creuse:2013:PEE

[685] Emmanuel Creusé and Serge Nicaise. A posteriori error estimator based

on gradient recovery by averaging for convection-diffusion-reaction problems approximated by discontinuous Galerkin methods. *IMA Journal of Numerical Analysis*, 33(1):212–241, January 2013. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/33/1/212.full.pdf+html`.

Creuse:2025:GOE

[686] Emmanuel Creusé, Serge Nicaise, and Zuqi Tang. Goal-oriented error estimation based on equilibrated flux reconstruction for the approximation of the harmonic formulations in eddy current problems. *IMA Journal of Numerical Analysis*, 45(1):126–162, January 2025. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/45/1/126/7590342`.

Creuse:2017:GEE

[687] Emmanuel Creusé, Serge Nicaise, and Roberta Tittarelli. A guaranteed equilibrated error estimator for the $\mathbf{A} - \varphi$ and $\mathbf{T} - \Omega$ magnetodynamic harmonic formulations of the Maxwell system. *IMA Journal of Numerical Analysis*, 37(2):750–773, April 2017. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `https://academic.oup.com/imajna/article/37/2/750/2669988/A-guaranteed-equilibrated-error-estimator-for-the`.

Criscuolo:2014:NEC

[688] G. Criscuolo. Numerical evaluation of certain strongly singular integrals. *IMA Journal of Numerical Analysis*, 34(2):651–674, April 2014. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/34/2/651.full.pdf+html`.

Croci:2023:ERN

[689] M. Croci and M. B. Giles. Effects of round-to-nearest and stochastic rounding in the numerical solution of the heat equation in low precision. *IMA Journal of Numerical Analysis*, 43 (3):1358–1390, May 2023. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/43/3/1358/6570843`.

Crowdy:2016:HBS

[690] D. G. Crowdy, S. Tanveer, and T. Delillo. Hybrid basis scheme for computing electrostatic fields exterior to close-to-touching discs. *IMA Journal of Numerical Analysis*, 36(2):743–769, April 2016. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/36/2/743`.

Csomos:2023:EES

[691] Petra Csomós, Bálint Farkas, and Balázs Kovács. Error estimates for a splitting integrator for abstract semilinear boundary coupled systems. *IMA Journal of Numerical Analysis*, 43(6):3628–3655, November 2023. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/43/6/3628/6989835`.

Csomos:2023:SOM

[692] Petra Csomós and Dávid Kunszenti-Kovács. A second-order Magnus-type integrator for evolution equations with delay. *IMA Journal of Numerical Analysis*, 43(5):2965–2997, September 2023. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/43/5/2965/6760978.

Cubillos:1987:EPF

[693] Pedro O. Cubillos. Eigenvalue problems for Fredholm integral operators. *IMA Journal of Numerical Analysis*, 7(2):191–204, 1987. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Cui:2014:AHM

[694] Jintao Cui and Wujun Zhang. An analysis of HDG methods for the Helmholtz equation. *IMA Journal of Numerical Analysis*, 34(1):279–295, January 2014. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/34/1/279.full.pdf+html.

Cullinan:1990:DSU

[695] M. P. Cullinan. Data smoothing using nonnegative divided differences and l_2 approximation. *IMA Journal of Numerical Analysis*, 10(4):583–608, 1990. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Cuminato:1992:UCC

[696] J. A. Cuminato. Uniform convergence of a collocation method for the numerical solution of Cauchy-type singular integral equations: a generalization. *IMA Journal of Numerical Analysis*, 12(1):31–45, 1992. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Curtis:1981:PST

[697] A. R. Curtis. On a property of some test equations for finite difference or finite element methods. *IMA Journal of Numerical Analysis*, 1(3):369–375, 1981. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Curtis:1983:JMP

[698] A. R. Curtis. Jacobian matrix properties and their impact on choice of software for stiff ODE systems. *IMA Journal of Numerical Analysis*, 3(4):397–415, 1983. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Curtis:1986:ACA

[699] A. R. Curtis. Analysis of covariance after nonlinear least-squares fitting. *IMA Journal of Numerical Analysis*, 6(4):453–461, 1986. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Curtis:2016:HNC

[700] Frank E. Curtis and Wei Guo. Handling nonpositive curvature in a limited memory steepest descent method. *IMA Journal of Numerical Analysis*, 36(2):717–742, April 2016. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/36/2/717.

Curtis:2018:LCL

[701] Frank E. Curtis and Wei Guo. *R*-linear convergence of limited memory steepest descent. *IMA Journal of Numerical Analysis*, 38(2):720–742, April 18, 2018. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/38/2/720/3749201.

Curtis:2008:FPF

[702] Frank E. Curtis and Jorge Nocedal. Flexible penalty functions for nonlinear constrained optimization. *IMA Journal of Numerical Analysis*, 28 (4):749–769, October 2008. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/cgi/content/abstract/28/4/749.

Curtis:2019:IRN

[703] Frank E. Curtis, Daniel P. Robinson, and Mohammadreza Samadi. An inexact regularized Newton framework with a worst-case iteration complexity of $\mathcal{O}(\varepsilon^{-3/2})$ for nonconvex optimization. *IMA Journal of Numerical Analysis*, 39(3):1296–1327, July 2019. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/39/3/1296/4992683.

Curtis:2020:SCV

[704] Frank E. Curtis, Daniel P. Robinson, and Baoyu Zhou. A self-correcting variable-metric algorithm framework for nonsmooth optimization. *IMA Journal of Numerical Analysis*, 40 (2):1154–1187, April 2020. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/40/2/1154/5369122.

Custodio:2008:USG

[705] A. L. Custódio, J. E. Dennis, Jr., and L. N. Vicente. Using simplex gradients of nonsmooth functions in direct search methods. *IMA Journal of Numerical Analysis*, 28(4):770–784, October 2008. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/cgi/content/abstract/28/4/770.

Cuyt:1988:EBC

[706] Annie Cuyt and Brigitte Verdonk. Evaluation of branched continued fractions using block-tridiagonal linear systems. *IMA Journal of Numerical Analysis*, 8(2):209–217, 1988. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Czepiel:2015:NSV

[707] Jerzy Czepiel and Piotr Kalita. Numerical solution of a variational-hemivariational inequality modelling simplified adhesion of an elastic body. *IMA Journal of Numerical Analysis*, 35(1):372–393, January 2015. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/35/1/372.

Czuprynski:2019:NAE

[708] Kenneth Czuprynski, Joseph Eichholz, and Weimin Han. Numerical analysis of the energy-dependent radiative transfer equation. *IMA*

Journal of Numerical Analysis, 39 (3):1529–1562, July 2019. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/39/3/1529/5003205.

Da:2002:UBT

[709] Xu Da. Uniform l behaviour for time discretization of a Volterra equation with completely monotonic kernel: I. stability. *IMA Journal of Numerical Analysis*, 22(1):133–151, January 2002. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_22/Issue_01/220133.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_22/Issue_01/pdf/220133.pdf.

daVeiga:2011:UAH

[710] Beirão da Veiga, Jérôme Droniou, and Gianmarco Manzini. A unified approach for handling convection terms in finite volumes and mimetic discretization methods for elliptic problems. *IMA Journal of Numerical Analysis*, 31(4):1357–1401, October 2011. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/31/4/1357.full.pdf+html.

daVeiga:2023:ISP

[711] L. Beirão da Veiga and L. Mascotto. Interpolation and stability properties of low-order face and edge virtual element spaces. *IMA Journal of Numerical Analysis*, 43(2):828–851, March 2023. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/43/2/828/6553575.

daVeiga:2024:EPR

[712] Lourenco Beirão da Veiga, Franco Dassi, and Giuseppe Vacca. Erratum to 'Pressure robust SUPG-stabilized finite elements for the unsteady Navier–Stokes equation'. *IMA Journal of Numerical Analysis*, 44(6):3815–3819, November 2024. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/44/6/3815/7692196. See [272].

daVeiga:2014:VEM

[713] Lourenco Beirão da Veiga and Gianmarco Manzini. A virtual element method with arbitrary regularity. *IMA Journal of Numerical Analysis*, 34(2):759–781, April 2014. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/34/2/759.full.pdf+html.

Dahlke:2022:WBA

[714] S. Dahlke and T. M. Surowiec. Wavelet-based approximations of pointwise bound constraints in Lebesgue and Sobolev spaces. *IMA Journal of Numerical Analysis*, 42(1):417–439, January 2022. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/42/1/417/5916501.

Dahlke:2021:AQD

[715] Stephan Dahlke, Ulrich Friedrich, Philipp Keding, Alexander Sieber, and

Thorsten Raasch. Adaptive quarkonial domain decomposition methods for elliptic partial differential equations. *IMA Journal of Numerical Analysis*, 41 (4):2608–2638, October 2021. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/41/4/2608/5891830.

Dahlke:2007:AFM

[716] Stephan Dahlke, Thorsten Raasch, Manuel Werner, Massimo Fornasier, and Rob Stevenson. Adaptive frame methods for elliptic operator equations: the steepest descent approach. *IMA Journal of Numerical Analysis*, 27(4):717–740, October 2007. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/cgi/content/abstract/27/4/717; http://imajna.oxfordjournals.org/cgi/reprint/27/4/717.

Dahmardah:1983:FSS

[717] H. O. Dahmardah and D. F. Mayers. A Fourier-series solution of the Crank-Gupta equation. *IMA Journal of Numerical Analysis*, 3(1):81–85, 1983. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Dai:2015:CQO

[718] Xiaoying Dai, Lianhua He, and Aihui Zhou. Convergence and quasi-optimal complexity of adaptive finite element computations for multiple eigenvalues. *IMA Journal of Numerical Analysis*, 35(4):1934–1977, October 2015. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/35/4/1934.

Dai:1996:CPF

[719] Y. H. Dai and Y. Yuan. Convergence properties of the Fletcher–Reeves method. *IMA Journal of Numerical Analysis*, 16(2):155–164, April 1996. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_16/Issue_02/160155.sgm.abs.html.

Dai:2006:CBB

[720] Yu-Hong Dai, William W. Hager, Klaus Schittkowski, and Hongchao Zhang. The cyclic Barzilai–Borwein method for unconstrained optimization. *IMA Journal of Numerical Analysis*, 26(3):604–627, July 2006. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://comjnl.oxfordjournals.org/cgi/content/abstract/26/3/604; http://comjnl.oxfordjournals.org/cgi/reprint/26/3/604.

Dai:2002:RLC

[721] Yu-Hong Dai and Li-Zhi Liao. R-linear convergence of the Barzilai and Borwein gradient method. *IMA Journal of Numerical Analysis*, 22(1): 1–10, January 2002. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_22/Issue_01/220001.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_22/Issue_01/pdf/220001.pdf.

Dai:2003:AMG

[722] Yu-Hong Dai and Ya-Xiang Yuan. Alternate minimization gradient method. *IMA Journal of Numerical Analysis*, 23 (3):377–393, July 2003. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_23/Issue_03/drg007.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_23/Issue_03/pdf/drg007.pdf.

Dallmann:2016:LPS

[723] Helene Dallmann, Daniel Arndt, and Gert Lube. Local projection stabilization for the Oseen problem. *IMA Journal of Numerical Analysis*, 36(2):796–823, April 2016. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/36/2/796.

Dardalhon:2013:APM

[724] F. Dardalhon, J.-C. Latché, and S. Minjeaud. Analysis of a projection method for low-order nonconforming finite elements. *IMA Journal of Numerical Analysis*, 33(1):295–317, January 2013. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/33/1/295.full.pdf+html.

Das:1989:PEE

[725] P. C. Das and A. K. Pani. A priori error estimates in H^1 and H^2 norms for Galerkin approximations to a single-phase nonlinear Stefan problem in one space dimension. *IMA Journal of Numerical Analysis*, 9(2):213–229, 1989. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Dassi:2024:MVE

[726] Franco Dassi, Alessio Fumagalli, Ilario Mazzieri, and Giuseppe Vacca. Mixed virtual element approximation of linear acoustic wave equation. *IMA Journal of Numerical Analysis*, 44(5):2864–2891, September 2024. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/44/5/2864/7310895.

Dauner:1989:ATA

[727] Herbert Dauner and Christian H. Reinsch. An analysis of two algorithms for shape-preserving cubic spline interpolation. *IMA Journal of Numerical Analysis*, 9(3):299–314, 1989. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Daus:2021:CFV

[728] Esther S. Daus, Ansgar Jüngel, and Antoine Zurek. Convergence of a finite-volume scheme for a degenerate-singular cross-diffusion system for biofilms. *IMA Journal of Numerical Analysis*, 41(2):935–973, April 2021. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/41/2/935/5877757.

Davies:2004:SP

[729] E. B. Davies and M. Plum. Spectral pollution. *IMA Journal of Numerical Analysis*, 24(3):417–438, July 2004. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.

oup.co.uk/imanum/hdb/Volume_24/Issue_03/240417.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_24/Issue_03/pdf/240417.pdf.

Davis:2020:NLP

[730] Damek Davis, Dmitriy Drusvyatskiy, and Courtney Paquette. The nonsmooth landscape of phase retrieval. *IMA Journal of Numerical Analysis*, 40 (4):2652–2695, October 2020. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/40/4/2652/5684995.

Davydov:2019:OSS

[731] Oleg Davydov and Robert Schaback. Optimal stencils in Sobolev spaces. *IMA Journal of Numerical Analysis*, 39(1):398–422, January 25, 2019. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/39/1/398/4781306.

Davydov:2008:ISD

[732] Oleg Davydov and Larry L. Schumaker. Interpolation and scattered data fitting on manifolds using projected Powell–Sabin splines. *IMA Journal of Numerical Analysis*, 28 (4):785–805, October 2008. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/cgi/content/abstract/28/4/785.

Dawson:1982:FAR

[733] Jeremy E. Dawson. A formula approximating the root of a function. *IMA Journal of Numerical Analysis*, 2 (3):371–375, July 1982. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Dax:1986:EAS

[734] Achiya Dax. An efficient algorithm for solving the rectilinear multifacility location problem. *IMA Journal of Numerical Analysis*, 6(3):343–355, 1986. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Dax:1989:MSL

[735] Achiya Dax. The minimax solution of linear equations subject to linear constraints. *IMA Journal of Numerical Analysis*, 9(1):95–109, 1989. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

DeAsmundis:2013:SPS

[736] Roberta De Asmundis, Daniela di Serafino, Filippo Riccio, and Gerardo Toraldo. On spectral properties of steepest descent methods. *IMA Journal of Numerical Analysis*, 33(4):1416–1435, October 2013. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/33/4/1416.full.pdf+html.

DeBonis:2009:NMS

[737] M. C. De Bonis and G. Mastroianni. Nyström method for systems of integral equations on the real semiaxis. *IMA Journal of Numerical Analysis*, 29(3):632–650, July 2009. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/cgi/content/abstract/29/3/632; http://imajna.oxfordjournals.org/cgi/reprint/29/3/632.

deDios:2023:PEP

[738] Blanca Ayuso de Dios, Thirupathi Gudi, and Kamana Porwal. Pointwise *a posteriori* error analysis of a discontinuous Galerkin method for the elliptic obstacle problem. *IMA Journal of Numerical Analysis*, 43 (4):2377–2412, July 2023. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/43/4/2377/6712215.

deDios:2017:ASP

[739] Blanca Ayuso de Dios, Ralf Hiptmair, and Cecilia Pagliantini. Auxiliary space preconditioners for SIP-DG discretizations of H(curl)-elliptic problems with discontinuous coefficients. *IMA Journal of Numerical Analysis*, 37(2):646–686, April 2017. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL https://academic.oup.com/imajna/article/37/2/646/2669962/Auxiliary-space-preconditioners-for-SIP-DG.

deFrutos:2019:EAN

[740] Javier de Frutos, Bosco García-Archilla, Volker John, and Julia Novo. Error analysis of non inf–sup stable discretizations of the time-dependent Navier–Stokes equations with local projection stabilization. *IMA Journal of Numerical Analysis*, 39(4):1747–1786, October 2019. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/39/4/1747/5055331.

DeFrutos:2010:AAT

[741] Javier De Frutos, Bosco García-Archilla, and Julia Novo. Accurate approximations to time-dependent nonlinear convection–diffusion problems. *IMA Journal of Numerical Analysis*, 30(4):1137–1158, October 2010. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/30/4/1137.full.pdf+html.

deFrutos:2011:NCD

[742] Javier de Frutos, Bosco García-Archilla, and Julia Novo. Nonlinear convection-diffusion problems: fully discrete approximations and a posteriori error estimates. *IMA Journal of Numerical Analysis*, 31(4):1402–1430, October 2011. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/31/4/1402.full.pdf+html.

Ysern:2015:OES

[743] Bernardo de la Calle Ysern. Optimal extension of the Szegő quadrature. *IMA Journal of Numerical Analysis*, 35(2):722–748, April 2015. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/35/2/722.

DeLeo:2016:HOT

[744] Mariano De Leo, Diego Rial, and Constanza Sánchez de la Vega. High-order time-splitting methods for irreversible equations. *IMA Journal of Numerical Analysis*, 36(4):1842–1866,

October 2016. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/36/4/1842.

deNiet:2009:NSF

[745] Arie C. de Niet and Fred W. Wubs. Numerically stable LDL^T-factorization of $\mathcal{F}$-type saddle point matrices. *IMA Journal of Numerical Analysis*, 29(1):208–234, January 2009. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

dePillis:1981:IMP

[746] J. de Pillis and M. Neumann. Iterative methods with k-part splittings. *IMA Journal of Numerical Analysis*, 1(1):65–79, 1981. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Ryck:2024:EEP

[747] Tim De Ryck, Ameya D. Jagtap, and Siddhartha Mishra. Error estimates for physics-informed neural networks approximating the Navier–Stokes equations. *IMA Journal of Numerical Analysis*, 44(1):83–119, January 2024. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/44/1/83/6989836.

deTeran:2016:BSP

[748] Fernando de Terán, Froilán M. Dopico, and Javier Pérez. Backward stability of polynomial root-finding using Fiedler companion matrices. *IMA Journal of Numerical Analysis*, 36(1):133–173, January 2016. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/36/1/133.

Deckelnick:2010:NBF

[749] Klaus Deckelnick, Gerhard Dziuk, Charles M. Elliott, and Claus-Justus Heine. An h-narrow band finite-element method for elliptic equations on implicit surfaces. *IMA Journal of Numerical Analysis*, 30(2):351–376, April 2010. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/cgi/content/abstract/30/2/351; http://imajna.oxfordjournals.org/cgi/reprint/30/2/351.

Deckelnick:1998:FEE

[750] Klaus Deckelnick and Charles M. Elliott. Finite element error bounds for a curve shrinking with prescribed normal contact to a fixed boundary. *IMA Journal of Numerical Analysis*, 18(4):635–654, October 1998. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_18/Issue_04/180635.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_18/Issue_04/pdf/180635.pdf.

Deckelnick:2025:DAC

[751] Klaus Deckelnick and Robert Nürnberg. Discrete anisotropic curve shortening flow in higher codimension. *IMA Journal of Numerical Analysis*, 45(1):36–67, January 2025. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/45/1/36/7678822.

Deckelnick:2000:CDF

[752] Klaus Deckelnick and Kunibert G. Siebert. $W^{1,\infty}$-convergence of the discrete free boundary for obstacle problems. *IMA Journal of Numerical Analysis*, 20(3):481–498, July 2000. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_20/Issue_03/200481.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_20/Issue_03/pdf/200481.pdf.

Deckers:2015:CDT

[753] Karl Deckers. Christoffel–Darboux-type formulae for orthonormal rational functions with arbitrary complex poles. *IMA Journal of Numerical Analysis*, 35(4):1842–1863, October 2015. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/35/4/1842.

Deckers:2009:RAO

[754] Karl Deckers and Adhemar Bultheel. Recurrence and asymptotics for orthonormal rational functions on an interval. *IMA Journal of Numerical Analysis*, 29(1):1–23, January 2009. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Deconinck:2022:NUT

[755] Bernard Deconinck, Thomas Trogdon, and Xin Yang. The numerical unified transform method for initial-boundary value problems on the half-line. *IMA Journal of Numerical Analysis*, 42(2):1400–1433, April 2022. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/42/2/1400/6157012.

Dedieu:2013:ASS

[756] Jean-Pierre Dedieu, Gregorio Malajovich, and Michael Shub. Adaptive step-size selection for homotopy methods to solve polynomial equations. *IMA Journal of Numerical Analysis*, 33(1):1–29, January 2013. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/33/1/1.full.pdf+html.

Dedieu:2003:NMR

[757] Jean-Pierre Dedieu, Pierre Priouret, and Gregorio Malajovich. Newton's method on Riemannian manifolds: covariant alpha theory. *IMA Journal of Numerical Analysis*, 23(3):395–419, July 2003. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_23/Issue_03/drg003.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_23/Issue_03/pdf/drg003.pdf.

Dedner:2022:RNV

[758] Andreas Dedner and Alice Hodson. Robust nonconforming virtual element methods for general fourth-order problems with varying coefficients. *IMA Journal of Numerical Analysis*, 42(2):1364–1399, April 2022. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/42/2/1364/6174313.

Dehghan:2024:FMV

[759] Mehdi Dehghan and Zeinab Gharibi. A fully mixed virtual element method for Darcy–Forchheimer miscible displacement of incompressible fluids appearing in porous media. *IMA Journal of Numerical Analysis*, 44(2):797–835, March 2024. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/44/2/797/7165318.

Deif:1990:RPP

[760] A. S. Deif. Realistic a priori and a posteriori error bounds for computed eigenvalues. *IMA Journal of Numerical Analysis*, 10(3):323–329, 1990. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

DelBuono:2002:MMA

[761] Nicoletta Del Buono and Adrian T. Hill. On a multistep method approximating a linear sectorial evolution equation. *IMA Journal of Numerical Analysis*, 22(3):481–499, July 2002. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_22/Issue_03/220481.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_22/Issue_03/pdf/220481.pdf.

DelPezzo:2015:OCF

[762] Leandro M. Del Pezzo and Sandra Martínez. Order of convergence of the finite element method for the $p(x)$-Laplacian. *IMA Journal of Numerical Analysis*, 35(4):1864–1887, October 2015. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/35/4/1864.

Delbourgo:1994:AEH

[763] D. Delbourgo and D. Elliott. On the approximate evaluation of Hadamard finite-part integrals. *IMA Journal of Numerical Analysis*, 14(4):485–500, 1994. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Delbourgo:1989:SPI

[764] R. Delbourgo. Shape preserving interpolation to convex data by rational functions with quadratic numerator and linear denominator. *IMA Journal of Numerical Analysis*, 9(1):123–136, 1989. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Delbourgo:1983:RQS

[765] R. Delbourgo and J. A. Gregory. C^2 rational quadratic spline interpolation to monotonic data. *IMA Journal of Numerical Analysis*, 3(2):141–152, 1983. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Delbourgo:1985:DDP

[766] R. Delbourgo and J. A. Gregory. The determination of derivative parameters for a monotonic rational quadratic interpolant. *IMA Journal of Numerical Analysis*, 5(4):397–406, 1985. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

DellAccio:2016:AOT

[767] Francesco Dell'Accio, Filomena Di Tommaso, and Kai Hormann. On the approximation order of triangular Shepard interpolation. *IMA Jour-*

nal of Numerical Analysis, 36(1):359–379, January 2016. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/36/1/359.

Dellnitz:1992:CBP

[768] Michael Dellnitz. Computational bifurcation of periodic solutions in systems with symmetry. *IMA Journal of Numerical Analysis*, 12(3):429–455, 1992. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). IMA Conference on Dynamics of Numerics and Numerics of Dynamics (Bristol, 1990).

Dellnitz:2002:FZM

[769] Michael Dellnitz, Oliver Schütze, and Stefan Sertl. Finding zeros by multilevel subdivision techniques. *IMA Journal of Numerical Analysis*, 22(2): 167–185, April 2002. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_22/Issue_02/220167.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_22/Issue_02/pdf/220167.pdf.

Demetriou:1991:LSS

[770] I. C. Demetriou and M. J. D. Powell. Least squares smoothing of univariate data to achieve piecewise monotonicity. *IMA Journal of Numerical Analysis*, 11(3):411–432, 1991. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Demetriou:1991:MSS

[771] I. C. Demetriou and M. J. D. Powell. The minimum sum of squares change to univariate data that gives convexity. *IMA Journal of Numerical Analysis*, 11(3):433–448, 1991. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Demlow:2023:MNE

[772] Alan Demlow, Sebastian Franz, and Natalia Kopteva. Maximum norm *a posteriori* error estimates for convection-diffusion problems. *IMA Journal of Numerical Analysis*, 43(5): 2562–2584, September 2023. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/43/5/2562/7046306.

Deng:2023:MIA

[773] Kangkang Deng and Zheng Peng. A manifold inexact augmented Lagrangian method for nonsmooth optimization on Riemannian submanifolds in Euclidean space. *IMA Journal of Numerical Analysis*, 43 (3):1653–1684, May 2023. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/43/3/1653/6590238.

Derevianko:2023:EEE

[774] Nadiia Derevianko, Gerlind Plonka, and Markus Petz. From ESPRIT to ESPIRA: estimation of signal parameters by iterative rational approximation. *IMA Journal of Numerical Analysis*, 43(2):789–827, March 2023. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/43/2/789/6525860.

Descombes:2013:LTS

[775] Stéphane Descombes and Mechthild Thalhammer. The Lie–Trotter splitting for nonlinear evolutionary problems with critical parameters: a compact local error representation and application to nonlinear Schrödinger equations in the semiclassical regime. *IMA Journal of Numerical Analysis*, 33(2):722–745, April 2013. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/33/2/722.full.pdf+html.

Deugoue:2021:FDF

[776] G. Deugoué, B. Jidjou Moghomye, and T. Tachim Medjo. Fully discrete finite element approximation of the stochastic Cahn–Hilliard–Navier–Stokes system. *IMA Journal of Numerical Analysis*, 41(4):3046–3112, October 2021. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/41/4/3046/5916888.

Devaud:2020:PGS

[777] Denis Devaud. Petrov–Galerkin space–time *hp*-approximation of parabolic equations in $\mathrm{H}^{1/2}$. *IMA Journal of Numerical Analysis*, 40(4):2717–2745, October 2020. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/40/4/2717/5588352.

dHalluin:2005:RNM

[778] Y. d'Halluin, P. A. Forsyth, and K. R. Vetzal. Robust numerical methods for contingent claims under jump diffusion processes. *IMA Journal of Numerical Analysis*, 25(1):87–112, January 2005. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imanum.oupjournals.org/cgi/content/abstract/25/1/87; http://imanum.oupjournals.org/cgi/reprint/25/1/87.

Dharmaraja:2010:OST

[779] Sohan Dharmaraja, Yinghui Wang, and Gilbert Strang. Optimal stability for trapezoidal–backward difference split-steps. *IMA Journal of Numerical Analysis*, 30(1):141–148, January 2010. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/cgi/content/abstract/30/1/141; http://imajna.oxfordjournals.org/cgi/reprint/30/1/141.

DiFratta:2020:LSO

[780] Giovanni Di Fratta, Carl-Martin Pfeiler, Dirk Praetorius, Michele Ruggeri, and Bernhard Stiftner. Linear second-order IMEX-type integrator for the (eddy current) Landau–Lifshitz–Gilbert equation. *IMA Journal of Numerical Analysis*, 40(4):2802–2838, October 2020. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/40/4/2802/5618688.

DiPietro:2024:AOD

[781] Daniele A. Di Pietro. An arbitrary-order discrete rot-rot complex on polygonal meshes with application to a quad-rot problem. *IMA Journal of Numerical Analysis*, 44(3):

1699–1730, May 2024. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/44/3/1699/7249211.

DiPietro:2017:AOM

[782] Daniele A. Di Pietro and Alexandre Ern. Arbitrary-order mixed methods for heterogeneous anisotropic diffusion on general meshes. *IMA Journal of Numerical Analysis*, 37(1):40–63, January 1, 2017. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL https://academic.oup.com/imajna/article/37/1/40/2669935/Arbitrary-order-mixed-methods-for-heterogeneous.

Dick:2007:RSA

[783] Josef Dick, Gunther Leobacher, and Friedrich Pillichshammer. Randomized Smolyak algorithms based on digital sequences for multivariate integration. *IMA Journal of Numerical Analysis*, 27(4):655–674, October 2007. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/cgi/content/abstract/27/4/655; http://imajna.oxfordjournals.org/cgi/reprint/27/4/655.

Diegel:2016:SCS

[784] Amanda E. Diegel, Cheng Wang, and Steven M. Wise. Stability and convergence of a second-order mixed finite element method for the Cahn–Hilliard equation. *IMA Journal of Numerical Analysis*, 36(4):1867–1897, October 2016. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/36/4/1867.

Diening:2014:LDG

[785] Lars Diening, Dietmar Kröner, Michael Ruzicka, and Ioannis Toulopoulos. A local discontinuous Galerkin approximation for systems with p-structure. *IMA Journal of Numerical Analysis*, 34(4):1447–1488, October 2014. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/34/4/1447.

Diening:2021:UHN

[786] Lars Diening, Toni Scharle, and Endre Süli. Uniform Hölder-norm bounds for finite element approximations of second-order elliptic equations. *IMA Journal of Numerical Analysis*, 41(3):1846–1898, July 2021. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/41/3/1846/6271311.

Dierckx:1981:ASF

[787] P. Dierckx. An algorithm for surface-fitting with spline functions. *IMA Journal of Numerical Analysis*, 1(3):267–283, 1981. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Dierckx:1992:ASF

[788] P. Dierckx, S. Van Leemput, and T. Vermeire. Algorithms for surface fitting using Powell–Sabin splines. *IMA Journal of Numerical Analysis*, 12(2):271–299, 1992. CODEN IJ-

NADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Diethelm:1997:GCQ

[789] Kai Diethelm. Generalized compound quadrature formulae for finite-part integrals. *IMA Journal of Numerical Analysis*, 17(3):479–493, July 1997. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://www3.oup.co.uk/imanum/hdb/Volume_17/Issue_03/170479.sgm.abs.html`.

Ding:2024:RAS

[790] Xiao-Li Ding and Dehua Wang. Regularity analysis for SEEs with multiplicative fBms and strong convergence for a fully discrete scheme. *IMA Journal of Numerical Analysis*, 44(3):1435–1463, May 2024. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/44/3/1435/7111991`.

Diogo:1991:HTC

[791] Teresa Diogo, Sean McKee, and Tao Tang. A Hermite-type collocation method for the solution of an integral equation with a certain weakly singular kernel. *IMA Journal of Numerical Analysis*, 11(4):595–605, 1991. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Dione:2020:OEE

[792] Ibrahima Dione. Optimal error estimates of the unilateral contact problem in a curved and smooth boundary domain by the penalty method. *IMA Journal of Numerical Analysis*, 40(1):729–763, January 2020. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/40/1/729/5060523`.

Discacciati:2018:OSM

[793] Marco Discacciati and Luca Gerardo-Giorda. Optimized Schwarz methods for the Stokes–Darcy coupling. *IMA Journal of Numerical Analysis*, 38(4):1959–1983, October 16, 2018. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/38/4/1959/4124872`.

Discacciati:2024:OSM

[794] Marco Discacciati and Tommaso Vanzan. Optimized Schwarz methods for the time-dependent Stokes–Darcy coupling. *IMA Journal of Numerical Analysis*, 44(4):2251–2276, July 2024. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/44/4/2251/7237438`.

Ditzian:1988:MSD

[795] Z. Ditzian. The modulus of smoothness and discrete data in a square domain. *IMA Journal of Numerical Analysis*, 8(3):311–319, 1988. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Dixon:1984:RII

[796] Jennifer Dixon and Sean McKee. Repeated integral inequalities. *IMA Journal of Numerical Analysis*, 4(1):99–107, January 1984. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Dixon:1985:UAC

[797] Jennifer Dixon and Sean McKee. A unified approach to convergence analysis of discretization methods for Volterra-type equations. *IMA Journal of Numerical Analysis*, 5(1):41–57, 1985. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Dobson:2014:TNP

[798] Matthew Dobson. There is no pointwise consistent quasicontinuum energy. *IMA Journal of Numerical Analysis*, 34(4):1541–1553, October 2014. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/34/4/1541`.

Dobson:2013:SSH

[799] Matthew Dobson, Claude Le Bris, and Frédéric Legoll. Symplectic schemes for highly oscillatory Hamiltonian systems: the homogenization approach beyond the constant frequency case. *IMA Journal of Numerical Analysis*, 33(1):30–56, January 2013. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/33/1/30.full.pdf+html`.

Doding:2024:UBE

[800] Christian Döding and Patrick Henning. Uniform L^∞-bounds for energy-conserving higher-order time integrators for the Gross–Pitaevskii equation with rotation. *IMA Journal of Numerical Analysis*, 44(5):2892–2935, September 2024. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/44/5/2892/7333568`.

Dohler:1991:SGR

[801] R. Döhler. Squared Givens rotation. *IMA Journal of Numerical Analysis*, 11(1):1–5, 1991. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Dolejsi:2008:OEE

[802] Vít Dolejsí, Miloslav Feistauer, Václav Kucera, and Veronika Sobotíková. An optimal $L(L^2)$-error estimate for the discontinuous Galerkin approximation of a nonlinear non-stationary convection–diffusion problem. *IMA Journal of Numerical Analysis*, 28(3):496–521, July 2008. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/cgi/content/abstract/28/3/496`; `http://imajna.oxfordjournals.org/cgi/reprint/28/3/496`.

Dolgov:2021:GPE

[803] Sergey Dolgov and Tomás Vejchodský. Guaranteed a posteriori error bounds for low-rank tensor approximate solutions. *IMA Journal of Numerical Analysis*, 41(2):1240–1266, April 2021. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/41/2/1240/5854460`.

Dominguez:2011:SEE

[804] V. Domínguez, I. G. Graham, and V. P. Smyshlyaev. Stability and error estimates for Filon–Clenshaw–Curtis rules for highly oscillatory in-

tegrals. *IMA Journal of Numerical Analysis*, 31(4):1253–1280, October 2011. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/31/4/1253.full.pdf+html.

Dond:2017:CAL

[805] Asha K. Dond, Neela Nataraj, and Amiya Kumar Pani. Convergence of an adaptive lowest-order Raviart–Thomas element method for general second-order linear elliptic problems. *IMA Journal of Numerical Analysis*, 37(2):832–860, April 2017. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL https://academic.oup.com/imajna/article/37/2/832/2669977/Convergence-of-an-adaptive-lowest-order-Raviart.

Dong:2017:UHD

[806] Haixia Dong, Bo Wang, Ziqing Xie, and Li-Lian Wang. An unfitted hybridizable discontinuous Galerkin method for the Poisson interface problem and its error analysis. *IMA Journal of Numerical Analysis*, 37(1):444–476, January 1, 2017. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL https://academic.oup.com/imajna/article/37/1/444/2884283/An-unfitted-hybridizable-discontinuous-Galerkin.

Dong:2025:OCA

[807] Xiaojing Dong, Huayi Huang, Yunqing Huang, Xiaojuan Shen, and Qili Tang. Optimal convergence analysis of two RPC-SAV schemes for the unsteady incompressible magnetohydrodynamics equations. *IMA Journal of Numerical Analysis*, 45(2):799–842, March 2025. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/45/2/799/7670603.

Dong:2024:HHO

[808] Zhaonan Dong and Alexandre Ern. C^0-hybrid high-order methods for biharmonic problems. *IMA Journal of Numerical Analysis*, 44(1):24–57, January 2024. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/44/1/24/7059041.

Donnelly:1989:SBC

[809] J. D. P. Donnelly. Stable boundary conditions for some hyperbolic difference schemes. *IMA Journal of Numerical Analysis*, 9(4):487–505, 1989. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Dopico:2012:ASS

[810] Froilán M. Dopico and Juan M. Molera. Accurate solution of structured linear systems via rank-revealing decompositions. *IMA Journal of Numerical Analysis*, 32(3):1096–1116, July 2012. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/32/3/1096.full.pdf+html.

Dorich:2024:MNE

[811] Benjamin Dörich, Jan Leibold, and Bernhard Maier. Maximum norm error bounds for the full discretization of nonautonomous wave equations. *IMA Journal of Numerical Analysis*,

44(4):2480–2512, July 2024. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/44/4/2480/7260054`.

Dormand:1984:GEE

[812] J. R. Dormand, R. R. Duckers, and P. J. Prince. Global error estimation with Runge–Kutta methods. *IMA Journal of Numerical Analysis*, 4(2): 169–184, April 1984. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Dormand:1987:FRK

[813] J. R. Dormand, M. E. A. El-Mikkawy, and P. J. Prince. Families of Runge–Kutta–Nyström formulae. *IMA Journal of Numerical Analysis*, 7(2):235–250, 1987. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Dormand:1987:HOE

[814] J. R. Dormand, M. E. A. El-Mikkawy, and P. J. Prince. High-order embedded Runge–Kutta–Nyström formulae. *IMA Journal of Numerical Analysis*, 7(4):423–430, 1987. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). See corrigendum [815].

Dormand:1991:CHO

[815] J. R. Dormand, M. E. A. El-Mikkawy, and P. J. Prince. Corrigendum: "High-order embedded Runge–Kutta–Nyström formulae" [IMA J. Numer. Anal. **7** (1987), no. 4, 423–430; MR 90d:65136]. *IMA Journal of Numerical Analysis*, 11(2):297, 1991. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). See [814].

Dormand:1985:GEE

[816] J. R. Dormand and P. J. Prince. Global error estimation with Runge–Kutta methods. II. *IMA Journal of Numerical Analysis*, 5(4):481–497, 1985. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

dosReis:2022:SMV

[817] Gonçalo dos Reis, Stefan Engelhardt, and Greig Smith. Simulation of McKean–Vlasov SDEs with super-linear growth. *IMA Journal of Numerical Analysis*, 42(1):874–922, January 2022. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/42/1/874/6121618`.

Doss:2005:QMU

[818] L. Jones Doss and Amiya K. Pani. A qualocation method for a unidimensional single phase semilinear Stefan problem. *IMA Journal of Numerical Analysis*, 25(1):139–159, January 2005. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imanum.oupjournals.org/cgi/content/abstract/25/1/139`; `http://imanum.oupjournals.org/cgi/reprint/25/1/139`.

Doucette:1994:NMN

[819] Robert L. Doucette. A Nyström method for the numerical solution of Laplace's equation with non-linear boundary conditions on a polygon. *IMA Journal of Numerical Analysis*, 14(4):501–522, 1994. CODEN IJ-

NADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Dougalis:2022:HOF

[820] Vassilios A. Dougalis and Ángel Durán. A high-order fully discrete scheme for the Korteweg–de Vries equation with a time-stepping procedure of Runge–Kutta-composition type. *IMA Journal of Numerical Analysis*, 42(4): 3022–3057, October 2022. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/42/4/3022/6350135`.

Driscoll:2016:RSC

[821] Tobin A. Driscoll and Nicholas Hale. Rectangular spectral collocation. *IMA Journal of Numerical Analysis*, 36(1):108–132, January 2016. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/36/1/108`.

Drmac:1999:PCS

[822] Zlatko Drmač. A posteriori computation of the singular vectors in a preconditioned Jacobi SVD algorithm. *IMA Journal of Numerical Analysis*, 19(2): 191–213, April 1999. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://www3.oup.co.uk/imanum/hdb/Volume_19/Issue_02/190191.sgm.abs.html`; `http://www3.oup.co.uk/imanum/hdb/Volume_19/Issue_02/pdf/190191.pdf`.

Droniou:2003:CFV

[823] J. Droniou, R. Eymard, D. Hilhorst, and X. D. Zhou. Convergence of a finite-volume mixed finite-element method for an elliptic-hyperbolic system. *IMA Journal of Numerical Analysis*, 23(3):507–538, July 2003. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://www3.oup.co.uk/imanum/hdb/Volume_23/Issue_03/230507.sgm.abs.html`; `http://www3.oup.co.uk/imanum/hdb/Volume_23/Issue_03/pdf/230507.pdf`.

Droniou:2016:GSS

[824] Jérôme Droniou, Robert Eymard, and Pierre Feron. Gradient schemes for Stokes problem. *IMA Journal of Numerical Analysis*, 36(4):1636–1669, October 2016. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/36/4/1636`.

Droniou:2022:DCA

[825] Jérôme Droniou, Beniamin Goldys, and Kim-Ngan Le. Design and convergence analysis of numerical methods for stochastic evolution equations with Leray–Lions operator. *IMA Journal of Numerical Analysis*, 42 (2):1143–1179, April 2022. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/42/2/1143/6156651`.

Droniou:2019:MFE

[826] Jérôme Droniou, Muhammad Ilyas, Bishnu P. Lamichhane, and Glen E. Wheeler. A mixed finite element method for a sixth-order elliptic problem. *IMA Journal of Numerical Analysis*, 39(1):374–397, January 25, 2019. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL

http://academic.oup.com/imajna/article/39/1/374/4695479.

Droniou:2018:IEG

[827] Jérôme Droniou and Neela Nataraj. Improved L^2 estimate for gradient schemes and super-convergence of the TPFA finite volume scheme. *IMA Journal of Numerical Analysis*, 38(3): 1254–1293, July 17, 2018. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/38/3/1254/3860930.

Droniou:2022:CAN

[828] Jérôme Droniou, Neela Nataraj, and Gopikrishnan C. Remesan. Convergence analysis of a numerical scheme for a tumour growth model. *IMA Journal of Numerical Analysis*, 42 (2):1180–1230, April 2022. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/42/2/1180/6218076.

Droniou:2024:HHO

[829] Jérôme Droniou and Liam Yemm. A hybrid high-order scheme for the stationary, incompressible magnetohydrodynamics equations. *IMA Journal of Numerical Analysis*, 44(1):262–296, January 2024. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/44/1/262/7073957.

Du:2009:AMF

[830] Qiang Du, Lili Ju, and Li Tian. Analysis of a mixed finite-volume discretization of fourth-order equations on general surfaces. *IMA Journal of Numerical Analysis*, 29(2):376–403, April 2009. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/cgi/content/abstract/29/2/376; http://imajna.oxfordjournals.org/cgi/reprint/29/2/376.

Du:2019:ACD

[831] Qiang Du, Yunzhe Tao, Xiaochuan Tian, and Jiang Yang. Asymptotically compatible discretization of multidimensional nonlocal diffusion models and approximation of nonlocal Green's functions. *IMA Journal of Numerical Analysis*, 39(2):607–625, April 2019. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/39/2/607/4959864.

DuCroz:1992:SMM

[832] Jeremy J. Du Croz and Nicholas J. Higham. Stability of methods for matrix inversion. *IMA Journal of Numerical Analysis*, 12(1):1–19, 1992. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Duan:2023:PPF

[833] Beiping Duan. Padé-parametric FEM approximation for fractional powers of elliptic operators on manifolds. *IMA Journal of Numerical Analysis*, 43(5): 2633–2664, September 2023. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/43/5/2633/6692453.

Duan:2020:NAF

[834] Beiping Duan, Raytcho D. Lazarov, and Joseph E. Pasciak. Numerical approximation of fractional powers of elliptic operators. *IMA Journal of Numerical Analysis*, 40(3): 1746–1771, July 2020. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/40/3/1746/5375861`.

Duan:2022:ASS

[835] Huoyuan Duan, Jiwei Cao, Ping Lin, and Roger C. E. Tan. Approximation of singular solutions and singular data for Maxwell's equations by Lagrange elements. *IMA Journal of Numerical Analysis*, 42(1):771–816, January 2022. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/42/1/771/6065018`.

Duan:2015:SSF

[836] Huoyuan Duan, Roger C. E. Tan, Suh-Yuh Yang, and Cheng-Shu You. An SPD stabilized finite element method for the Stokes equations. *IMA Journal of Numerical Analysis*, 35(4):1812–1841, October 2015. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/35/4/1812`.

Dubeau:1985:PQS

[837] François Dubeau and Jean Savoie. Periodic quartic splines with equispaced knots. *IMA Journal of Numerical Analysis*, 5(2):183–189, 1985. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Duff:1983:ENW

[838] I. S. Duff and J. K. Reid. Errata: "A note on the work involved in no-fill sparse matrix factorization". *IMA Journal of Numerical Analysis*, 3(2): 253, 1983. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Duff:1993:ELF

[839] I. S. Duff, G. A. Watson, et al. Editorial: Leslie Fox, 1918–1992. *IMA Journal of Numerical Analysis*, 13(1):i–ii, 1993. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Duff:2005:CE

[840] Iain Duff and Endre Süli. Change of Editorship. *IMA Journal of Numerical Analysis*, 25(1):i, January 2005. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imanum.oupjournals.org/cgi/reprint/25/1/i`.

Duff:1991:FSS

[841] Iain S. Duff, N. I. M. Gould, J. K. Reid, J. A. Scott, and K. Turner. The factorization of sparse symmetric indefinite matrices. *IMA Journal of Numerical Analysis*, 11(2):181–204, 1991. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Duff:1987:SSS

[842] Iain S. Duff and Ulrich Nowak. On sparse solvers in a stiff integrator of extrapolation type. *IMA Journal of Numerical Analysis*, 7(4):391–405, 1987. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Duff:1983:NWI

[843] Iain S. Duff and J. K. Reid. A note on the work involved in no-fill sparse matrix factorization. *IMA Journal of Numerical Analysis*, 3(1):37–40, 1983. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Duff:2019:SPS

[844] Timothy Duff, Cvetelina Hill, Anders Jensen, Kisun Lee, Anton Leykin, and Jeff Sommars. Solving polynomial systems via homotopy continuation and monodromy. *IMA Journal of Numerical Analysis*, 39 (3):1421–1446, July 2019. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/39/3/1421/4969753`.

Dujardin:2016:ABS

[845] Guillaume Dujardin and Pauline Lafitte. Asymptotic behaviour of splitting schemes involving time-subcycling techniques. *IMA Journal of Numerical Analysis*, 36(4):1804–1841, October 2016. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/36/4/1804`.

Dumas:2011:CCW

[846] W. M. Dumas and M. V. Tretyakov. Computing conditional Wiener integrals of functionals of a general form. *IMA Journal of Numerical Analysis*, 31(3):1217–1251, July 2011. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/31/3/1217.full.pdf+html`.

Duncan:1991:SES

[847] D. B. Duncan. A simple and effective self-adaptive moving mesh for enthalpy formulations of phase change problems. *IMA Journal of Numerical Analysis*, 11(1):55–78, 1991. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Duncan:2007:OGD

[848] Dugald B. Duncan and Yiqi Qiu. Overlapping grids for the diffusion equation. *IMA Journal of Numerical Analysis*, 27(3):550–575, July 2007. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/cgi/content/abstract/27/3/550`; `http://imajna.oxfordjournals.org/cgi/reprint/27/3/550`.

Dung:2024:ONI

[849] Dinh Dũng and Van Kien Nguyen. Optimal numerical integration and approximation of functions on R^d equipped with Gaussian measure. *IMA Journal of Numerical Analysis*, 44(2): 1242–1267, March 2024. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/44/2/1242/7234329`.

Dunne:2009:FMN

[850] R. K. Dunne, E. O'Riordan, and G. I. Shishkin. Fitted mesh numerical methods for singularly perturbed elliptic problems with mixed derivatives. *IMA Journal of Numerical Analysis*, 29(3):

712–730, July 2009. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/cgi/content/abstract/29/3/712; http://imajna.oxfordjournals.org/cgi/reprint/29/3/712`.

Dunst:2015:CRT

[851] Thomas Dunst. Convergence with rates for a time-discretization of the Stochastic Landau–Lifschitz–Gilbert equation. *IMA Journal of Numerical Analysis*, 35(2):615–651, April 2015. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/35/2/615`.

Dunst:2015:OCE

[852] Thomas Dunst, Markus Klein, Andreas Prohl, and Ailyn Schäfer. Optimal control in evolutionary micromagnetism. *IMA Journal of Numerical Analysis*, 35(3):1342–1380, July 2015. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/35/3/1342`.

Duran:2000:NIR

[853] A. Durán and J. M. Sanz-Serna. The numerical integration of relative equilibrium solutions. The nonlinear Schrödinger equation. *IMA Journal of Numerical Analysis*, 20(2):235–261, April 2000. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://www3.oup.co.uk/imanum/hdb/Volume_20/Issue_02/200235.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_20/Issue_02/pdf/200235.pdf`.

Duran:2012:SFE

[854] R. G. Durán, A. L. Lombardi, and M. I. Prieto. Superconvergence for finite element approximation of a convection-diffusion equation using graded meshes. *IMA Journal of Numerical Analysis*, 32(2):511–533, April 2012. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/32/2/511.full.pdf+html`.

Durand:2011:FDF

[855] Stephane Durand and Marián Slodicka. Fully discrete finite element method for Maxwell's equations with nonlinear conductivity. *IMA Journal of Numerical Analysis*, 31(4):1713–1733, October 2011. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/31/4/1713.full.pdf+html`.

Dussault:1998:APA

[856] Jean-Pierre P. Dussault. Augmented penalty algorithms. *IMA Journal of Numerical Analysis*, 18(3):355–372, July 1998. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://www3.oup.co.uk/imanum/hdb/Volume_18/Issue_03/180355.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_18/Issue_03/pdf/180355.pdf`.

Dusson:2021:PPP

[857] Geneviève Dusson. Post-processing of the plane-wave approximation

of Schrödinger equations. Part II: Kohn–Sham models. *IMA Journal of Numerical Analysis*, 41(4):2456–2487, October 2021. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/41/4/2456/5906628.

Dusson:2017:PAN

[858] Geneviève Dusson and Yvon Maday. *A posteriori* analysis of a nonlinear Gross–Pitaevskii-type eigenvalue problem. *IMA Journal of Numerical Analysis*, 37(1):94–137, January 1, 2017. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL https://academic.oup.com/imajna/article/37/1/94/2669933/A-posteriori-analysis-of-a-nonlinear-Gross.

Dyn:2025:ISV

[859] Nira Dyn, David Levin, and Qusay Muzaffar. Interpolation of set-valued functions. *IMA Journal of Numerical Analysis*, 45(2):696–733, March 2025. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/45/2/696/7698101.

Dyn:1990:DDT

[860] Nira Dyn, David Levin, and Samuel Rippa. Data dependent triangulations for piecewise linear interpolation. *IMA Journal of Numerical Analysis*, 10(1):137–154, January 1990. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Dziuk:2007:FEE

[861] G. Dziuk and C. M. Elliott. Finite elements on evolving surfaces. *IMA Journal of Numerical Analysis*, 27(2):262–292, April 2007. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/cgi/content/abstract/27/2/262; http://imajna.oxfordjournals.org/cgi/reprint/27/2/262.

Dziuk:2012:RKT

[862] G. Dziuk, Ch. Lubich, and D. Mansour. Runge–Kutta time discretization of parabolic differential equations on evolving surfaces. *IMA Journal of Numerical Analysis*, 32(2):394–416, April 2012. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/32/2/394.full.pdf+html.

Eastwood:1987:SBN

[863] James W. Eastwood and Wayne Arter. Spurious behaviour of numerically computed fluid flow. *IMA Journal of Numerical Analysis*, 7(2):205–222, 1987. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Ecevit:2019:GBH

[864] Fatih Ecevit and Hasan Hüseyin Eruslu. A Galerkin BEM for high-frequency scattering problems based on frequency-dependent changes of variables. *IMA Journal of Numerical Analysis*, 39(2):893–923, April 2019. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/39/2/893/4836927.

Edelmann:2022:FEA

[865] Dominik Edelmann. Finite element analysis for a diffusion equation on a

harmonically evolving domain. *IMA Journal of Numerical Analysis*, 42 (2):1866–1901, April 2022. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/42/2/1866/6263486.

Effland:2022:CCA

[866] Alexander Effland, Behrend Heeren, Martin Rumpf, and Benedikt Wirth. Consistent curvature approximation on Riemannian shape spaces. *IMA Journal of Numerical Analysis*, 42 (1):78–106, January 2022. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/42/1/78/6055248.

Egger:2023:APD

[867] H. Egger, J. Giesselmann, T. Kunkel, and N. Philippi. An asymptotic-preserving discretization scheme for gas transport in pipe networks. *IMA Journal of Numerical Analysis*, 43 (4):2137–2168, July 2023. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/43/4/2137/6671755. See correction [868].

Egger:2025:CAP

[868] H Egger, J Giesselmann, T Kunkel, and N Philippi. Correction to: An asymptotic-preserving discretization scheme for gas transport in pipe networks. *IMA Journal of Numerical Analysis*, 45(2):1267, March 2025. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/45/2/1267/7642325. See [867].

Egger:2010:HMD

[869] Herbert Egger and Joachim Schöberl. A hybrid mixed discontinuous Galerkin finite-element method for convection–diffusion problems. *IMA Journal of Numerical Analysis*, 30(4):1206–1234, October 2010. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/30/4/1206.full.pdf+html.

Egger:2013:AHD

[870] Herbert Egger and Christian Waluga. *hp* analysis of a hybrid DG method for Stokes flow. *IMA Journal of Numerical Analysis*, 33(2):687–721, April 2013. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/33/2/687.full.pdf+html.

Egloffe:2015:RWR

[871] A.-C. Egloffe, A. Gloria, J.-C. Mourrat, and T. N. Nguyen. Random walk in random environment, corrector equation and homogenized coefficients: from theory to numerics, back and forth. *IMA Journal of Numerical Analysis*, 35(2):499–545, April 2015. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/35/2/499.

Eibner:2006:LEA

[872] T. Eibner and J. M. Melenk. A local error analysis of the boundary-

concentrated hp-FEM. *IMA Journal of Numerical Analysis*, 26(4):752–778, October 2006. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/cgi/content/abstract/26/4/752; http://imajna.oxfordjournals.org/cgi/reprint/26/4/752`.

Eigel:2010:MFP

[873] M. Eigel, E. George, and M. Kirkilionis. A mesh-free partition of unity method for diffusion equations on complex domains. *IMA Journal of Numerical Analysis*, 30(3):629–653, July 2010. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/cgi/content/abstract/30/3/629; http://imajna.oxfordjournals.org/cgi/reprint/30/3/629`.

Eigel:2018:PEC

[874] Martin Eigel and Rüdiger Müller. A posteriori error control for stationary coupled bulk-surface equations. *IMA Journal of Numerical Analysis*, 38(1):271–298, January 25, 2018. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/38/1/271/3065607`.

Eikeland:2021:AEC

[875] Erik Eikeland, Leszek Marcinkowski, and Talal Rahman. An adaptively enriched coarse space for Schwarz preconditioners for P_1 discontinuous Galerkin multiscale finite element problems. *IMA Journal of Numerical Analysis*, 41(4):2873–2895, October 2021. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/41/4/2873/5901595`.

Eisenmann:2022:VAS

[876] Monika Eisenmann and Eskil Hansen. A variational approach to the sum splitting scheme. *IMA Journal of Numerical Analysis*, 42(1):923–950, January 2022. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/42/1/923/6104153`.

ElAlaoui:2007:PPA

[877] L. El Alaoui, A. Ern, and E. Burman. A priori and a posteriori analysis of non-conforming finite elements with face penalty for advection–diffusion equations. *IMA Journal of Numerical Analysis*, 27(1):151–171, January 2007. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/cgi/content/abstract/27/1/151; http://imajna.oxfordjournals.org/cgi/reprint/27/1/151`.

El-Gebeily:1998:FDM

[878] M. A. El-Gebeily and I. T. Abu-Zaid. On a finite difference method for singular two-point boundary value problems. *IMA Journal of Numerical Analysis*, 18(2):179–190, April 1998. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://www3.oup.co.uk/imanum/hdb/Volume_18/Issue_02/180179.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_18/Issue_02/pdf/180179.pdf`.

ElTarazi:1985:EIM

[879] M. N. El Tarazi. Erratum: “Iterative methods for systems of first-order differential equations” [IMA J. Numer. Anal. **5** (1985), no. 1, 29–39; MR 86d:65087]. *IMA Journal of Numerical Analysis*, 5(4):503, 1985. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). See [880].

ElTarazi:1985:IMS

[880] Mouhamed Nabih El Tarazi. Iterative methods for systems of first-order differential equations. *IMA Journal of Numerical Analysis*, 5(1):29–39, 1985. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). See erratum [879].

ElTarazi:1986:MPA

[881] Mouhamed Nabih El Tarazi. On a monotony-preserving accelerator process for the successive approximations method. *IMA Journal of Numerical Analysis*, 6(4):439–446, 1986. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Elboulqe:2025:ESF

[882] Y. Elboulqe and M. El Maghri. An explicit spectral Fletcher–Reeves conjugate gradient method for bi-criteria optimization. *IMA Journal of Numerical Analysis*, 45(1):223–242, January 2025. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/45/1/223/7643964.

Ellacott:1981:CSA

[883] S. W. Ellacott. On the convergence of some approximate methods of conformal mappings. *IMA Journal of Numerical Analysis*, 1(2):185–192, 1981. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Ellacott:1983:CFE

[884] S. W. Ellacott and M. H. Gutknecht. The Carathéodory–Fejér extension of a finite geometric series. *IMA Journal of Numerical Analysis*, 3(2):221–227, 1983. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Ellacott:1983:PCF

[885] S. W. Ellacott and M. H. Gutknecht. The polynomial Carathéodory–Fejér approximation method for Jordan regions. *IMA Journal of Numerical Analysis*, 3(2):207–220, 1983. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Elliott:1985:COS

[886] C. M. Elliott. On the convergence of a one-step method for the numerical solution of an ordinary differential inclusion. *IMA Journal of Numerical Analysis*, 5(1):3–21, 1985. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Elliott:1987:EAE

[887] C. M. Elliott. Error analysis of the enthalpy method for the Stefan problem. *IMA Journal of Numerical Analysis*, 7(1):61–71, 1987. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Elliott:2005:FEA

[888] C. M. Elliott, D. Kay, and V. Styles. Finite element analysis of a current density–electric field formula-

tion of Bean's model for superconductivity. *IMA Journal of Numerical Analysis*, 25(1):182–204, January 2005. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imanum.oupjournals.org/cgi/content/abstract/25/1/182`; `http://imanum.oupjournals.org/cgi/reprint/25/1/182`.

Elliott:2021:UTC

[889] C. M. Elliott and T. Ranner. A unified theory for continuous-in-time evolving finite element space approximations to partial differential equations in evolving domains. *IMA Journal of Numerical Analysis*, 41 (3):1696–1845, July 2021. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/41/3/1696/6000805`.

Elliott:2009:NAT

[890] C. M. Elliott and S. A. Smitheman. Numerical analysis of the TV regularization and H_1 fidelity model for decomposing an image into cartoon plus texture. *IMA Journal of Numerical Analysis*, 29(3):651–689, July 2009. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/cgi/content/abstract/29/3/651`; `http://imajna.oxfordjournals.org/cgi/reprint/29/3/651`.

Elliott:1981:FEA

[891] Charles M. Elliott. On the finite element approximation of an elliptic variational inequality arising from an implicit time discretization of the Stefan problem. *IMA Journal of Numerical Analysis*, 1(1):115–125, 1981. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Elliott:2017:ACS

[892] Charles M. Elliott and Hans Fritz. On approximations of the curve shortening flow and of the mean curvature flow based on the DeTurck trick. *IMA Journal of Numerical Analysis*, 37(2):543–603, April 2017. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `https://academic.oup.com/imajna/article/37/2/543/2669973/On-approximations-of-the-curve-shortening-flow-and`.

Elliott:1983:EEF

[893] Charles M. Elliott and Vladimír Janovský. An error estimate for a finite-element approximation of an elliptic variational inequality formulation of a Hele–Shaw moving-boundary problem. *IMA Journal of Numerical Analysis*, 3(1):1–9, 1983. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Elliott:2007:FEA

[894] Charles M. Elliott and Yohei Kashima. A finite-element analysis of critical-state models for type-II superconductivity in 3D. *IMA Journal of Numerical Analysis*, 27(2):293–331, April 2007. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/cgi/content/abstract/27/2/293`; `http://imajna.oxfordjournals.org/cgi/reprint/27/2/293`.

Elliott:2013:FEA

[895] Charles M. Elliott and Thomas Ranner. Finite element analysis for a coupled bulk-surface partial differential equation. *IMA Journal of Numerical Analysis*, 33(2):377–402, April 2013. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/33/2/377.full.pdf+html.

Elliott:2011:NCA

[896] Charles M. Elliott, Björn Stinner, Vanessa Styles, and Richard Welford. Numerical computation of advection and diffusion on evolving diffuse interfaces. *IMA Journal of Numerical Analysis*, 31(3):786–812, July 2011. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/31/3/786.full.pdf+html.

Elliott:2001:NAM

[897] Charles M. Elliott and Vanessa Styles. Numerical analysis of a mean field model of superconducting vortices. *IMA Journal of Numerical Analysis*, 21(1):1–51, January 2001. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_21/Issue_01/210001.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_21/Issue_01/pdf/210001.pdf.

Elliott:1993:AAT

[898] David Elliott. An asymptotic analysis of two algorithms for certain Hadamard finite-part integrals. *IMA Journal of Numerical Analysis*, 13(3):445–462, 1993. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Elman:2007:SSS

[899] Howard Elman and Darran Furnival. Solving the stochastic steady-state diffusion problem using multigrid. *IMA Journal of Numerical Analysis*, 27(4):675–688, October 2007. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/cgi/content/abstract/27/4/675; http://imajna.oxfordjournals.org/cgi/reprint/27/4/675.

Elman:2016:EIA

[900] Howard C. Elman and Minghao W. Rostami. Efficient iterative algorithms for linear stability analysis of incompressible flows. *IMA Journal of Numerical Analysis*, 36(1):296–316, January 2016. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/36/1/296.

Elschner:1997:QMS

[901] Johannes Elschner and Ivan G. Graham. Quadrature methods for Symm's integral equation on polygons. *IMA Journal of Numerical Analysis*, 17(4):643–664, October 1997. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_17/Issue_04/170643.sgm.abs.html.

Elster:1995:GAB

[902] Clemens Elster and Arnold Neumaier. A grid algorithm for bound con-

strained optimization of noisy functions. *IMA Journal of Numerical Analysis*, 15(4):585–608, 1995. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Engel:2021:OFE

[903] Sebastian Engel, Boris Vexler, and Philip Trautmann. Optimal finite element error estimates for an optimal control problem governed by the wave equation with controls of bounded variation. *IMA Journal of Numerical Analysis*, 41(4):2639–2667, October 2021. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/41/4/2639/5875786`.

Engelborghs:1999:DCP

[904] K. Engelborghs, K. Lust, and D. Roose. Direct computation of period doubling bifurcation points of large-scale systems of ODEs using a Newton–Picard method. *IMA Journal of Numerical Analysis*, 19(4):525–547, October 1999. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://www3.oup.co.uk/imanum/hdb/Volume_19/Issue_04/190525.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_19/Issue_04/pdf/190525.pdf`.

Erath:2019:AVC

[905] Christoph Erath and Dirk Praetorius. Adaptive vertex-centered finite volume methods for general second-order linear elliptic partial differential equations. *IMA Journal of Numerical Analysis*, 39(2):983–1008, April 2019. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/39/2/983/4913310`.

Erb:2020:SIS

[906] Wolfgang Erb. A spectral interpolation scheme on the unit sphere based on the nodes of spherical Lissajous curves. *IMA Journal of Numerical Analysis*, 40(2):1330–1355, April 2020. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/40/2/1330/5256535`.

Erdogan:2019:NCE

[907] Utku Erdogan and Gabriel J. Lord. A new class of exponential integrators for SDEs with multiplicative noise. *IMA Journal of Numerical Analysis*, 39(2):820–846, April 2019. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/39/2/820/4955792`.

Ern:2022:ELG

[908] Alexandre Ern, Thirupathi Gudi, Iain Smears, and Martin Vohralík. Equivalence of local- and global-best approximations, a simple stable local commuting projector, and optimal hp approximation estimates in $H(\mathrm{div})$. *IMA Journal of Numerical Analysis*, 42(2):1023–1049, April 2022. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/42/2/1023/6171135`.

Ern:2019:EFP

[909] Alexandre Ern, Iain Smears, and Martin Vohralík. Equilibrated flux a posteriori error estimates in $L^2(H^1)$-norms for high-order discretizations

of parabolic problems. *IMA Journal of Numerical Analysis*, 39(3): 1158–1179, July 2019. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/39/3/1158/5041990.

Ern:2009:DGM

[910] Alexandre Ern, Annette F. Stephansen, and Paolo Zunino. A discontinuous Galerkin method with weighted averages for advection–diffusion equations with locally small and anisotropic diffusivity. *IMA Journal of Numerical Analysis*, 29(2):235–256, April 2009. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/cgi/content/abstract/29/2/235; http://imajna.oxfordjournals.org/cgi/reprint/29/2/235.

Ern:2020:QOV

[911] Alexandre Ern and Pietro Zanotti. A quasi-optimal variant of the hybrid high-order method for elliptic partial differential equations with H^{-1} loads. *IMA Journal of Numerical Analysis*, 40 (4):2163–2188, October 2020. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/40/4/2163/5686326.

Ernst:2025:CWB

[912] Lewin Ernst and Karsten Urban. A certified wavelet-based physics-informed neural network for the solution of parameterized partial differential equations. *IMA Journal of Numerical Analysis*, 45(1):494–515, January 2025. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/45/1/494/7664632.

Ervedoza:2016:NME

[913] Sylvain Ervedoza, Aurora Marica, and Enrique Zuazua. Numerical meshes ensuring uniform observability of one-dimensional waves: construction and analysis. *IMA Journal of Numerical Analysis*, 36(2):503–542, April 2016. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/36/2/503.

Ervin:2006:ABE

[914] Vincent J. Ervin and Norbert Heuer. An adaptive boundary element method for the exterior Stokes problem in three dimensions. *IMA Journal of Numerical Analysis*, 26(2):297–325, April 2006. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imanum.oxfordjournals.org/cgi/content/abstract/26/2/297; http://imanum.oxfordjournals.org/cgi/reprint/26/2/297.

Escande:2016:FCL

[915] Adrien Escande. Fast closest logarithm algorithm in the special orthogonal group. *IMA Journal of Numerical Analysis*, 36(2):675–687, April 2016. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/36/2/675.

Escande:2022:FWD

[916] Paul Escande and Pierre Weiss. Fast wavelet decomposition of linear operators through product-convolution expansions. *IMA Journal of Numerical Analysis*, 42(1):569–596, January 2022. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/42/1/569/5924594.

Esser:2015:ARF

[917] Patrick Esser and Jörg Grande. An accurate and robust finite element level set redistancing method. *IMA Journal of Numerical Analysis*, 35(4):1913–1933, October 2015. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/35/4/1913.

Evans:2020:HBS

[918] John A. Evans, Michael A. Scott, Kendrick M. Shepherd, Derek C. Thomas, and Rafael Vázquez Hernández. Hierarchical B-spline complexes of discrete differential forms. *IMA Journal of Numerical Analysis*, 40(1):422–473, January 2020. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/40/1/422/5228145.

Eymard:1998:EEA

[919] R. Eymard, T. Gallouët, M. Ghilani, and R. Herbin. Error estimates for the approximate solutions of a nonlinear hyperbolic equation given by finite volume schemes. *IMA Journal of Numerical Analysis*, 18(4):563–594, October 1998. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_18/Issue_04/180563.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_18/Issue_04/pdf/180563.pdf.

Eymard:2006:CCF

[920] R. Eymard, T. Gallouët, and R. Herbin. A cell-centred finite-volume approximation for anisotropic diffusion operators on unstructured meshes in any space dimension. *IMA Journal of Numerical Analysis*, 26(2):326–353, April 2006. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imanum.oxfordjournals.org/cgi/content/abstract/26/2/326; http://imanum.oxfordjournals.org/cgi/reprint/26/2/326.

Eymard:2010:DHA

[921] R. Eymard, T. Gallouët, and R. Herbin. Discretization of heterogeneous and anisotropic diffusion problems on general nonconforming meshes. Sushi: a scheme using stabilization and hybrid interfaces. *IMA Journal of Numerical Analysis*, 30(4):1009–1043, October 2010. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/30/4/1009.full.pdf+html.

Eymard:2013:GOE

[922] R. Eymard, C. Guichard, and R. Masson. Grid orientation effect in coupled finite volume schemes. *IMA Journal of Numerical Analysis*, 33(2):582–608, April 2013. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642

(electronic). URL http://imajna.oxfordjournals.org/content/33/2/582.full.pdf+html.

Eymard:2011:SFV

[923] Robert Eymard, Angela Handlovičová, and Karol Mikula. Study of a finite volume scheme for the regularized mean curvature flow level set equation. *IMA Journal of Numerical Analysis*, 31(3): 813–846, July 2011. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/31/3/813.full.pdf+html.

Ezquerro:2002:GDC

[924] J. A. Ezquerro and M. A. Hernández. Generalized differentiability conditions for Newton's method. *IMA Journal of Numerical Analysis*, 22(2): 187–205, April 2002. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_22/Issue_02/220187.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_22/Issue_02/pdf/220187.pdf.

Ezquerro:1997:MCM

[925] José A. Ezquerro. A modification of the Chebyshev method. *IMA Journal of Numerical Analysis*, 17(4):511–525, October 1997. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_17/Issue_04/170511.sgm.abs.html.

Fabiano:1995:FDA

[926] Richard H. Fabiano, Roger Knobel, and Bruce D. Lowe. A finite-difference algorithm for an inverse Sturm–Liouville problem. *IMA Journal of Numerical Analysis*, 15(1):75–88, 1995. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Fadili:2023:LCN

[927] Jalal Fadili, Nicolas Forcadel, Thi Tuyen Nguyen, and Rita Zantout. Limits and consistency of nonlocal and graph approximations to the eikonal equation. *IMA Journal of Numerical Analysis*, 43(6):3685–3728, November 2023. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/43/6/3685/7005681.

Faermann:2000:LAS

[928] Birgit Faermann. Localization of the Aronszajn–Slobodeckij norm and application to adaptive boundary elements methods. Part I. The two-dimensional case. *IMA Journal of Numerical Analysis*, 20(2):203–234, April 2000. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_20/Issue_02/200203.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_20/Issue_02/pdf/200203.pdf.

Fairweather:1991:BMN

[929] G. Fairweather and J. C. López Marcos. A box method for a nonlinear equation of population dynamics. *IMA Journal of Numerical Analysis*, 11(4):525–538, 1991. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Fairweather:1983:AED

[930] G. Fairweather and A. V. Saylor. On

the application of extrapolation, deferred correction and defect correction to discrete-time Galerkin methods for parabolic problems. *IMA Journal of Numerical Analysis*, 3(2):173–192, 1983. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Falletta:2018:BCF

[931] S. Falletta. BEM coupling with the FEM fictitious domain approach for the solution of the exterior Poisson problem and of wave scattering by rotating rigid bodies. *IMA Journal of Numerical Analysis*, 38(2):779–809, April 18, 2018. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/38/2/779/3749199`.

Falletta:2014:STB

[932] S. Falletta, G. Monegato, and L. Scuderi. A space–time BIE method for wave equation problems: the (two-dimensional) Neumann case. *IMA Journal of Numerical Analysis*, 34(1):390–434, January 2014. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/34/1/390.full.pdf+html`.

Falletta:2012:STB

[933] Silvia Falletta, Giovanni Monegato, and Letizia Scuderi. A space–time Bie method for nonhomogeneous exterior wave equation problems. The Dirichlet case. *IMA Journal of Numerical Analysis*, 32(1):202–226, January 2012. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/32/1/202.full.pdf+html`.

Fang:2020:FEM

[934] Changjie Fang, Kenneth Czuprynski, Weimin Han, Xiaoliang Cheng, and Xiaoxia Dai. Finite element method for a stationary Stokes hemivariational inequality with slip boundary condition. *IMA Journal of Numerical Analysis*, 40(4):2696–2716, October 2020. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/40/4/2696/5539755`.

Fang:2022:QRE

[935] Youhan Fang, Yudong Cao, and Robert D. Skeel. Quasi-reliable estimates of effective sample size. *IMA Journal of Numerical Analysis*, 42(1):680–697, January 2022. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/42/1/680/5923770`.

Faou:2009:GHW

[936] Erwan Faou and Vasile Gradinaru. Gauss–Hermite wave packet dynamics: convergence of the spectral and pseudospectral approximation. *IMA Journal of Numerical Analysis*, 29(4):1023–1045, October 2009. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/cgi/content/abstract/29/4/1023`; `http://imajna.oxfordjournals.org/cgi/reprint/29/4/1023`.

Faou:2018:CNG

[937] Erwan Faou and Tiphaine Jézéquel. Convergence of a normalized gradient algorithm for computing ground states. *IMA Journal of Numerical Analysis*, 38(1):360–376, January 25, 2018. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/38/1/360/3078587`.

Faou:2015:AES

[938] Erwan Faou, Alexander Ostermann, and Katharina Schratz. Analysis of exponential splitting methods for inhomogeneous parabolic equations. *IMA Journal of Numerical Analysis*, 35(1):161–178, January 2015. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/35/1/161`.

Farago:2009:CDP

[939] István Faragó and Róbert Horváth. Continuous and discrete parabolic operators and their qualitative properties. *IMA Journal of Numerical Analysis*, 29(3):606–631, July 2009. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/cgi/content/abstract/29/3/606; http://imajna.oxfordjournals.org/cgi/reprint/29/3/606`.

Farago:2012:DMP

[940] István Faragó, János Karátson, and Sergey Korotov. Discrete maximum principles for nonlinear parabolic PDE systems. *IMA Journal of Numerical Analysis*, 32(4):1541–1573, October 2012. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/32/4/1541.full.pdf+html`.

Farhloul:2001:RMF

[941] M. Farhloul, S. Nicaise, and L. Paquet. A refined mixed finite element method for the Boussinesq equations in polygonal domains. *IMA Journal of Numerical Analysis*, 21(2):525–551, April 2001. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://www3.oup.co.uk/imanum/hdb/Volume_21/Issue_02/210525.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_21/Issue_02/pdf/210525.pdf`.

Farhloul:1998:MFE

[942] Mohamed Farhloul. A mixed finite element method for a nonlinear Dirichlet problem. *IMA Journal of Numerical Analysis*, 18(1):121–132, January 1998. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://www3.oup.co.uk/imanum/hdb/Volume_18/Issue_01/180121.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_18/Issue_01/pdf/180121.pdf`.

Farhloul:2008:RMF

[943] Mohamed Farhloul, Serge Nicaise, and Luc Paquet. A refined mixed finite-element method for the stationary Navier–Stokes equations with mixed boundary conditions. *IMA Journal of Numerical Analysis*, 28(1):25–45, January 2008. CODEN IJNADH.

ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/cgi/content/abstract/28/1/25; http://imajna.oxfordjournals.org/cgi/reprint/28/1/25.

Farmer:1985:MPM

[944] C. L. Farmer. A moving point method for arbitrary Peclet number multi-dimensional convection-diffusion equations. *IMA Journal of Numerical Analysis*, 5(4):465–480, 1985. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Farouki:2015:SPI

[945] Rida T. Farouki, Carla Manni, Maria Lucia Sampoli, and Alessandra Sestini. Shape-preserving interpolation of spatial data by Pythagorean-hodograph quintic spline curves. *IMA Journal of Numerical Analysis*, 35(1):478–498, January 2015. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/35/1/478.

Farouki:2003:SPI

[946] Rida T. Farouki, Carla Manni, and Alessandra Sestini. Shape-preserving interpolation by G^1 and G^2 PH quintic splines. *IMA Journal of Numerical Analysis*, 23(2):175–195, April 2003. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_23/Issue_02/230175.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_23/Issue_02/pdf/230175.pdf.

Farouki:2016:TPS

[947] Rida T. Farouki, Francesca Pelosi, Maria Lucia Sampoli, and Alessandra Sestini. Tensor-product surface patches with Pythagorean-hodograph isoparametric curves. *IMA Journal of Numerical Analysis*, 36(3):1389–1409, July 2016. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/36/3/1389.

Farrell:2017:MID

[948] Patricio Farrell, Kathryn Gillow, and Holger Wendland. Multilevel interpolation of divergence-free vector fields. *IMA Journal of Numerical Analysis*, 37(1):332–353, January 1, 2017. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL https://academic.oup.com/imajna/article/37/1/332/2669938/Multilevel-interpolation-of-divergence-free-vector.

Farrell:2022:RMM

[949] Patrick E. Farrell, Lawrence Mitchell, L. Ridgway Scott, and Florian Wechsung. Robust multigrid methods for nearly incompressible elasticity using macro elements. *IMA Journal of Numerical Analysis*, 42(4):3306–3329, October 2022. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/42/4/3306/6498280.

Farrell:1987:SCU

[950] Paul A. Farrell. Sufficient conditions for uniform convergence of a class of difference schemes for a singularly per-

turbed problem. *IMA Journal of Numerical Analysis*, 7(4):459–472, 1987. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Fasi:2022:DIS

[951] Massimiliano Fasi and Bruno Iannazzo. The dual inverse scaling and squaring algorithm for the matrix logarithm. *IMA Journal of Numerical Analysis*, 42(3):2829–2851, July 2022. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/42/3/2829/6378634.

Fasino:1999:DMS

[952] Dario Fasino and Gabriele Inglese. Discrete methods in the study of an inverse problem for Laplace's equation. *IMA Journal of Numerical Analysis*, 19(1):105–118, January 1999. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_19/Issue_01/190105.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_19/Issue_01/pdf/190105.pdf.

Faul:2005:KSA

[953] A. C. Faul, G. Goodsell, and M. J. D. Powell. A Krylov subspace algorithm for multiquadric interpolation in many dimensions. *IMA Journal of Numerical Analysis*, 25(1):1–24, January 2005. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imanum.oupjournals.org/cgi/content/abstract/25/1/1; http://imanum.oupjournals.org/cgi/reprint/25/1/1.

Faustmann:2017:EMA

[954] Markus Faustmann, Jens Markus Melenk, and Dirk Praetorius. Existence of $\mathcal{H}$-matrix approximants to the inverse of BEM matrices: the hypersingular integral operator. *IMA Journal of Numerical Analysis*, 37(3):1211–1244, July 1, 2017. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL https://academic.oup.com/imajna/article/37/3/1211/2669983/Existence-of-mathscr-H-matrix-approximants-to-the.

Faustmann:2025:FBC

[955] Markus Faustmann and Alexander Rieder. FEM-BEM coupling in fractional diffusion. *IMA Journal of Numerical Analysis*, 45(2):1143–1172, March 2025. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/45/2/1143/7687814.

Favati:1999:FIM

[956] Paola Favati and Beatrice Meini. On functional iteration methods for solving nonlinear matrix equations arising in queueing problems. *IMA Journal of Numerical Analysis*, 19(1):39–49, January 1999. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_19/Issue_01/190039.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_19/Issue_01/pdf/190039.pdf.

Feireisl:2016:CNM

[957] Eduard Feireisl, Trygve Karper, and Antonín Novotný. A convergent nu-

merical method for the Navier–Stokes–Fourier system. *IMA Journal of Numerical Analysis*, 36(4):1477–1535, October 2016. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/36/4/1477`.

Feireisl:2020:CNT

[958] Eduard Feireisl, Mária Lukácová-Medvidová, and Hana Mizerová. *K*-convergence as a new tool in numerical analysis. *IMA Journal of Numerical Analysis*, 40(4):2227–2255, October 2020. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/40/4/2227/5625677`.

Feireisl:2021:CFV

[959] Eduard Feireisl, Mária Lukácová-Medvidová, Hana Mizerová, and Bangwei She. On the convergence of a finite volume method for the Navier–Stokes–Fourier system. *IMA Journal of Numerical Analysis*, 41(4):2388–2422, October 2021. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/41/4/2388/5919186`.

Feistauer:2019:DGM

[960] Miloslav Feistauer, Filip Roskovec, and Anna-Margarete Sändig. Discontinuous Galerkin method for an elliptic problem with nonlinear Newton boundary conditions in a polygon. *IMA Journal of Numerical Analysis*, 39(1):423–453, January 25, 2019. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/39/1/423/4656159`.

Feldstein:1986:OUS

[961] Alan Feldstein and Peter Turner. Overflow, underflow, and severe loss of significance in floating-point addition and subtraction. *IMA Journal of Numerical Analysis*, 6(2):241–251, 1986. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Feng:1998:ADD

[962] Xiaobing Feng. Analysis of a domain decomposition method for the nearly elastic wave equations based on mixed finite element methods. *IMA Journal of Numerical Analysis*, 18(2):229–250, April 1998. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://www3.oup.co.uk/imanum/hdb/Volume_18/Issue_02/180229.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_18/Issue_02/pdf/180229.pdf`.

Feng:2018:AMF

[963] Xiaobing Feng, Zhihao Ge, and Yukun Li. Analysis of a multiphysics finite element method for a poroelasticity model. *IMA Journal of Numerical Analysis*, 38(1):330–359, January 25, 2018. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/38/1/330/3078586`.

Feng:2015:ASI

[964] Xiaobing Feng and Yukun Li. Analysis of symmetric interior penalty discontinuous Galerkin methods for the

Allen–Cahn equation and the mean curvature flow. *IMA Journal of Numerical Analysis*, 35(4):1622–1651, October 2015. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/35/4/1622.

Feng:2024:HOT

[965] Xiaobing Feng, Akash Ashirbad Panda, and Andreas Prohl. Higher order time discretization for the stochastic semilinear wave equation with multiplicative noise. *IMA Journal of Numerical Analysis*, 44(2):836–885, March 2024. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/44/2/836/7164144.

Feng:2021:OCM

[966] Xiaobing Feng, Andreas Prohl, and Liet Vo. Optimally convergent mixed finite element methods for the stochastic Stokes equations. *IMA Journal of Numerical Analysis*, 41(3):2280–2310, July 2021. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/41/3/2280/6174314.

Feng:2004:PEE

[967] Xiaobing Feng and Zhenghui Xie. A priori error estimates for a coupled finite element method and mixed finite element method for a fluid–solid interaction problem. *IMA Journal of Numerical Analysis*, 24(4):671–698, October 2004. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imanum.oupjournals.org/cgi/content/abstract/24/4/671; http://imanum.oupjournals.org/cgi/reprint/24/4/671.

Fercoq:2019:ARA

[968] Olivier Fercoq and Zheng Qu. Adaptive restart of accelerated gradient methods under local quadratic growth condition. *IMA Journal of Numerical Analysis*, 39(4):2069–2095, October 2019. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/39/4/2069/5365591.

Fernandez:2020:SSU

[969] Miguel A. Fernández and Mikel Landajuela. Splitting schemes and unfitted-mesh methods for the coupling of an incompressible fluid with a thin-walled structure. *IMA Journal of Numerical Analysis*, 40(2):1407–1453, April 2020. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/40/2/1407/5303249.

Fernandez:2016:CEA

[970] Miguel A. Fernández and Jimmy Mullaert. Convergence and error analysis for a class of splitting schemes in incompressible fluid-structure interaction. *IMA Journal of Numerical Analysis*, 36(4):1748–1782, October 2016. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/36/4/1748.

Ferreira:2009:LCN

[971] Orizon P. Ferreira. Local convergence of Newton's method in Ba-

nach space from the viewpoint of the majorant principle. *IMA Journal of Numerical Analysis*, 29(3):746–759, July 2009. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/cgi/content/abstract/29/3/746`; `http://imajna.oxfordjournals.org/cgi/reprint/29/3/746`.

Ferreira:2012:LCN

[972] Orizon P. Ferreira and Roberto C. M. Silva. Local convergence of Newton's method under a majorant condition in Riemannian manifolds. *IMA Journal of Numerical Analysis*, 32(4):1696–1713, October 2012. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/32/4/1696.full.pdf+html`.

Ferreira:2003:ANS

[973] Raúl Ferreira, Pablo Groisman, and Julio D. Rossi. Adaptive numerical schemes for a parabolic problem with blow-up. *IMA Journal of Numerical Analysis*, 23(3):439–463, July 2003. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://www3.oup.co.uk/imanum/hdb/Volume_23/Issue_03/drg006.sgm.abs.html`; `http://www3.oup.co.uk/imanum/hdb/Volume_23/Issue_03/pdf/drg006.pdf`.

Ferriss:1985:NSD

[974] D. H. Ferriss and D. W. Martin. Numerical solution of discrete Poisson-Neumann problems with compatible or incompatible data, with reference to flow in a circular cavity. *IMA Journal of Numerical Analysis*, 5(1):79–100, 1985. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Fletcher:1985:EC

[975] R. Fletcher. Expected conditioning. *IMA Journal of Numerical Analysis*, 5(3):247–273, 1985. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Fletcher:1987:HMN

[976] R. Fletcher and C. Xu. Hybrid methods for nonlinear least squares. *IMA Journal of Numerical Analysis*, 7(3):371–389, 1987. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Fletcher:2017:ALB

[977] Roger Fletcher. Augmented Lagrangians, box constrained QP and extensions. *IMA Journal of Numerical Analysis*, 37(4):1635–1656, October 1, 2017. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `https://academic.oup.com/imajna/article/37/4/1635/3059683`.

Fliege:1999:DPS

[978] Jörg Fliege and Ulrike Maier. The distribution of points on the sphere and corresponding cubature formulae. *IMA Journal of Numerical Analysis*, 19(2):317–334, April 1999. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://www3.oup.co.uk/imanum/hdb/Volume_19/Issue_02/190317.sgm.abs.html`; `http://www3.oup.co.uk/imanum/hdb/Volume_19/Issue_02/pdf/190317.pdf`.

Floater:2006:CCS

[979] Michael S. Floater. Chordal cubic spline interpolation is fourth-order accurate. *IMA Journal of Numerical Analysis*, 26(1):25–33, January 2006. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imanum.oxfordjournals.org/cgi/content/abstract/26/1/25; http://imanum.oxfordjournals.org/cgi/reprint/26/1/25.

Floater:2024:BPN

[980] Michael S. Floater. On best p-norm approximation of discrete data by polynomials. *IMA Journal of Numerical Analysis*, 44(5):2716–2724, September 2024. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/44/5/2716/7462175.

Fonn:2015:HCA

[981] E. Fonn, P. Grohs, and R. Hiptmair. Hyperbolic cross approximation for the spatially homogeneous Boltzmann equation. *IMA Journal of Numerical Analysis*, 35(4):1533–1567, October 2015. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/35/4/1533.

Fornberg:2021:ACH

[982] Bengt Fornberg. An algorithm for calculating Hermite-based finite difference weights. *IMA Journal of Numerical Analysis*, 41(2):801–813, April 2021. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/41/2/801/5821103.

Fornberg:2021:CIA

[983] Bengt Fornberg. Contour integrals of analytic functions given on a grid in the complex plane. *IMA Journal of Numerical Analysis*, 41(2):814–825, April 2021. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/41/2/814/5872831.

Fornberg:2023:IOA

[984] Bengt Fornberg. Infinite-order accuracy limit of finite difference formulas in the complex plane. *IMA Journal of Numerical Analysis*, 43(5):3055–3072, September 2023. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/43/5/3055/6760980.

Fornberg:2008:LPR

[985] Bengt Fornberg, Natasha Flyer, Susan Hovde, and Cécile Piret. Locality properties of radial basis function expansion coefficients for equispaced interpolation. *IMA Journal of Numerical Analysis*, 28(1):121–142, January 2008. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/cgi/content/abstract/28/1/121; http://imajna.oxfordjournals.org/cgi/reprint/28/1/121.

Fornberg:2010:CBP

[986] Bengt Fornberg, Natasha Flyer, and Jennifer M. Russell. Comparisons between pseudospectral and radial

basis function derivative approximations. *IMA Journal of Numerical Analysis*, 30(1):149–172, January 2010. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/cgi/content/abstract/30/1/149; http://imajna.oxfordjournals.org/cgi/reprint/30/1/149.

Fortunato:2020:FPS

[987] Daniel Fortunato and Alex Townsend. Fast Poisson solvers for spectral methods. *IMA Journal of Numerical Analysis*, 40(3):1994–2018, July 2020. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/40/3/1994/5621364.

Foucart:2017:BCA

[988] Simon Foucart and Vladlena Powers. Basc: constrained approximation by semidefinite programming. *IMA Journal of Numerical Analysis*, 37(2):1066–1085, April 2017. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL https://academic.oup.com/imajna/article/37/2/1066/2884284/Basc-constrained-approximation-by-semidefinite.

Fox:1981:NSI

[989] L. Fox and D. F. Mayers. On the numerical solution of implicit ordinary differential equations. *IMA Journal of Numerical Analysis*, 1(4):377–401, 1981. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Franca:2002:SRF

[990] Leopoldo P. Franca and Lutz Tobiska. Stability of the residual free bubble method for bilinear finite elements on rectangular grids. *IMA Journal of Numerical Analysis*, 22(1):73–87, January 2002. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_22/Issue_01/220073.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_22/Issue_01/pdf/220073.pdf.

Frank:2001:PIE

[991] J. E. Frank and P. J. Van Der Houwen. Parallel iteration of the extended backward differentiation formulas. *IMA Journal of Numerical Analysis*, 21(1):367–385, January 2001. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_21/Issue_01/210367.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_21/Issue_01/pdf/210367.pdf.

Frankel:1999:NTT

[992] J. I. Frankel and G. E. Osborne. A new time treatment for solving partial integro-differential equations of radiative transport. *IMA Journal of Numerical Analysis*, 19(1):91–103, January 1999. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_19/Issue_01/190091.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_19/Issue_01/pdf/190091.pdf.

Franz:2024:PPI

[993] Sebastian Franz. Post-processing and improved error estimates of numerical methods for evolutionary systems. *IMA Journal of Numerical Analysis*, 44(5):

2936–2958, September 2024. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/44/5/2936/7330778.

Franz:2018:GDS

[994] Sebastian Franz, Katharina Höhne, and Gunar Matthies. Grad-div stabilized discretizations on S-type meshes for the Oseen problem. *IMA Journal of Numerical Analysis*, 38(1):299–329, January 25, 2018. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/38/1/299/3091689.

Franz:2019:NMC

[995] Sebastian Franz, Sascha Trostorff, and Marcus Waurick. Numerical methods for changing type systems. *IMA Journal of Numerical Analysis*, 39 (2):1009–1038, April 2019. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/39/2/1009/4913313.

Franz:2023:MQI

[996] Tino Franz and Holger Wendland. Multilevel quasi-interpolation. *IMA Journal of Numerical Analysis*, 43(5): 2934–2964, September 2023. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/43/5/2934/6760979.

Frasca-Caccia:2020:SBP

[997] Gianluca Frasca-Caccia and Peter Ellsworth Hydon. Simple bespoke preservation of two conservation laws. *IMA Journal of Numerical Analysis*, 40 (2):1294–1329, April 2020. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/40/2/1294/5239992.

Freire:1999:NCD

[998] E. Freire, L. Pizarro, and A. J. Rodríguez-Luis. Numerical continuation of degenerate homoclinic orbits in planar systems. *IMA Journal of Numerical Analysis*, 19(1): 51–75, January 1999. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_19/Issue_01/190051.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_19/Issue_01/pdf/190051.pdf.

Freitag:2008:TPI

[999] Melina A. Freitag and Alastair Spence. A tuned preconditioner for inexact inverse iteration applied to Hermitian eigenvalue problems. *IMA Journal of Numerical Analysis*, 28(3):522–551, July 2008. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/cgi/content/abstract/28/3/522; http://imajna.oxfordjournals.org/cgi/reprint/28/3/522.

French:1994:LTB

[1000] Donald A. French and Søren Jensen. Long-time behaviour of arbitrary order continuous time Galerkin schemes for some one-dimensional phase transition problems. *IMA Journal of Numerical Analysis*, 14(3):421–442, 1994. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Frerichs:2022:DPR

[1001] Derk Frerichs and Christian Merdon. Divergence-preserving reconstructions on polygons and a really pressure-robust virtual element method for the Stokes problem. *IMA Journal of Numerical Analysis*, 42(1):597–619, January 2022. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/42/1/597/5956495.

Frittelli:2019:PIP

[1002] Massimo Frittelli, Anotida Madzvamuse, Ivonne Sgura, and Chandrasekhar Venkataraman. Preserving invariance properties of reaction–diffusion systems on stationary surfaces. *IMA Journal of Numerical Analysis*, 39(1):235–270, January 25, 2019. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/39/1/235/4568335.

Fritz:2013:IFE

[1003] H. Fritz. Isoparametric finite element approximation of Ricci curvature. *IMA Journal of Numerical Analysis*, 33(4):1265–1290, October 2013. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/33/4/1265.full.pdf+html.

Froese:2017:NMH

[1004] Brittany D. Froese, Adam M. Oberman, and Tiago Salvador. Numerical methods for the 2-Hessian elliptic partial differential equation. *IMA Journal of Numerical Analysis*, 37(1):209–236, January 1, 2017. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL https://academic.oup.com/imajna/article/37/1/209/2669939/Numerical-methods-for-the-2-Hessian-elliptic.

Fu:2019:PFS

[1005] Guosheng Fu, Yanyi Jin, and Weifeng Qiu. Parameter-free superconvergent H(div)-conforming HDG methods for the Brinkman equations. *IMA Journal of Numerical Analysis*, 39(2):957–982, April 2019. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/39/2/957/4857166.

Fu:2023:UBD

[1006] Guosheng Fu and Wenzheng Kuang. Uniform block-diagonal preconditioners for divergence-conforming HDG methods for the generalized Stokes equations and the linear elasticity equations. *IMA Journal of Numerical Analysis*, 43(3):1718–1741, May 2023. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/43/3/1718/6609533.

Fu:2023:TPL

[1007] Zhenwu Fu, Wei Wang, Bo Han, and Yong Chen. Two-point Landweber-type method with convex penalty terms for nonsmooth nonlinear inverse problems. *IMA Journal of Numerical Analysis*, 43(2):1115–1148, March 2023. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/43/2/1115/6570842.

Fuchs:1993:GNR

[1008] P. M. Fuchs. A global negative result on algebraic stability and a special positive result on linear stability of generalized IRK methods. *IMA Journal of Numerical Analysis*, 13(4):571–589, 1993. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Fuhrer:2021:E

[1009] Thomas Führer, Alexander Haberl, and Norbert Heuer. Erratum to: "Trace operators of the bi-Laplacian and applications". *IMA Journal of Numerical Analysis*, 41(1):800, January 2021. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/41/1/800/5875243.

Fuhrer:2021:TOB

[1010] Thomas Führer, Alexander Haberl, and Norbert Heuer. Trace operators of the bi-Laplacian and applications. *IMA Journal of Numerical Analysis*, 41(2):1031–1055, April 2021. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/41/2/1031/5823798.

Fuhrer:2018:DMS

[1011] Thomas Führer, Norbert Heuer, and Ernst P. Stephan. On the DPG method for Signorini problems. *IMA Journal of Numerical Analysis*, 38(4):1893–1926, October 16, 2018. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/38/4/1893/4260989.

Fulton:2014:ESD

[1012] Charles Fulton, David Pearson, and Steven Pruess. Estimating spectral density functions for Sturm–Liouville problems with two singular endpoints. *IMA Journal of Numerical Analysis*, 34(2):609–650, April 2014. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/34/2/609.full.pdf+html.

Funaro:1990:CAP

[1013] Daniele Funaro. Convergence analysis for pseudospectral multidomain approximations of linear advection equations. *IMA Journal of Numerical Analysis*, 10(1):63–74, January 1990. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Fuselier:2017:RBF

[1014] Edward J. Fuselier and Grady B. Wright. A radial basis function method for computing Helmholtz–Hodge decompositions. *IMA Journal of Numerical Analysis*, 37(2):774–797, April 2017. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL https://academic.oup.com/imajna/article/37/2/774/2669992/A-radial-basis-function-method-for-computing.

Gabriel:2010:NAM

[1015] J. Rigoberto Gabriel, Juan González-Hernández, and Raquiel R. López-Martínez. Numerical approximations to the mass transfer problem on compact spaces. *IMA Journal of Numerical Analysis*, 30(4):1121–1136, October 2010. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/30/4/1121.full.pdf+html.

Gaier:1987:CTN

[1016] D. Gaier and N. Papamichael. On the comparison of two numerical methods for conformal mapping. *IMA Journal of Numerical Analysis*, 7(3):261–282, 1987. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Galkowski:2024:LAB

[1017] Jeffrey Galkowski, David Lafontaine, and Euan A. Spence. Local absorbing boundary conditions on fixed domains give order-one errors for high-frequency waves. *IMA Journal of Numerical Analysis*, 44(4):1946–2069, July 2024. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/44/4/1946/7261400.

Gallistl:2015:MFE

[1018] Dietmar Gallistl. Morley finite element method for the eigenvalues of the biharmonic operator. *IMA Journal of Numerical Analysis*, 35(4):1779–1811, October 2015. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/35/4/1779.

Gallouet:2016:EEN

[1019] Thierry Gallouët, Raphaèle Herbin, David Maltese, and Antonin Novotny. Error estimates for a numerical approximation to the compressible barotropic Navier–Stokes equations. *IMA Journal of Numerical Analysis*, 36(2):543–592, April 2016. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/36/2/543.

Gallouet:2022:CMG

[1020] Thierry Gallouët and Olivier Hurisse. Convergence of a multidimensional Glimm-like scheme for the transport of fronts. *IMA Journal of Numerical Analysis*, 42(4):2924–2958, October 2022. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/42/4/2924/6328431.

Ganesh:2012:CAP

[1021] M. Ganesh, S. C. Hawkins, and R. Hiptmair. Convergence analysis with parameter estimates for a reduced basis acoustic scattering T-matrix method. *IMA Journal of Numerical Analysis*, 32(4):1348–1374, October 2012. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/32/4/1348.full.pdf+html.

Ganesh:1991:NSH

[1022] M. Ganesh and M. C. Joshi. Numerical solvability of Hammerstein integral equations of mixed type. *IMA Journal of Numerical Analysis*, 11(1):21–31, 1991. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Ganesh:1998:OCN

[1023] M. Ganesh and A. Spence. Orthogonal collocation for a nonlinear integro-differential equation. *IMA Journal of Numerical Analysis*, 18(2): 191–206, April 1998. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_18/Issue_02/180191.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_18/Issue_02/pdf/180191.pdf.

Gantner:2018:ROA

[1024] Gregor Gantner, Alexander Haberl, Dirk Praetorius, and Bernhard Stiftner. Rate optimal adaptive FEM with inexact solver for nonlinear operators. *IMA Journal of Numerical Analysis*, 38(4):1797–1831, October 16, 2018. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/38/4/1797/4158785.

Gantner:2022:PCA

[1025] Gregor Gantner and Dirk Praetorius. Plain convergence of adaptive algorithms without exploiting reliability and efficiency. *IMA Journal of Numerical Analysis*, 42(2): 1434–1453, April 2022. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/42/2/1434/6157013.

Gantner:2024:AST

[1026] Gregor Gantner and Rob Stevenson. Applications of a space-time FOSLS formulation for parabolic PDEs. *IMA Journal of Numerical Analysis*, 44 (1):58–82, January 2024. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/44/1/58/7074505.

Gao:2021:OEE

[1027] Huadong Gao, Weiwei Sun, and Chengda Wu. Optimal error estimates and recovery technique of a mixed finite element method for nonlinear thermistor equations. *IMA Journal of Numerical Analysis*, 41(4): 3175–3200, October 2021. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/41/4/3175/5899590.

Garau:2011:CQO

[1028] Eduardo M. Garau and Pedro Morin. Convergence and quasi-optimality of adaptive FEM for Steklov eigenvalue problems. *IMA Journal of Numerical Analysis*, 31(3):914–946, July 2011. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/31/3/914.full.pdf+html.

Garay:1998:DFD

[1029] Barnabas M. Garay. The discretized flow on domains of attraction: a structural stability result. *IMA Journal of Numerical Analysis*, 18(1): 77–90, January 1998. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_18/Issue_01/180077.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_18/Issue_01/pdf/180077.pdf.

Garay:2001:NFB

[1030] Barnabas M. Garay and Peter L. Simon. Numerical flow-box theorems under structural assumptions. *IMA Journal of Numerical Analysis*, 21(3):

733–749, July 2001. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_21/Issue_03/210733.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_21/Issue_03/pdf/210733.pdf.

Garcia:2017:FES

[1031] Carlos García, Gabriel N. Gatica, and Salim Meddahi. Finite element semidiscretization of a pressure-stress formulation for the time-domain fluid-structure interaction problem. *IMA Journal of Numerical Analysis*, 37(4): 1772–1799, October 1, 2017. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL https://academic.oup.com/imajna/article/37/4/1772/3038030.

Garcia-Archilla:1995:ASC

[1032] B. García-Archilla and J. A. Mackenzie. Analysis of a supraconvergent cell vertex finite-volume method for one-dimensional convection-diffusion problems. *IMA Journal of Numerical Analysis*, 15(1):101–115, 1995. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Garcia-Archilla:1995:TIN

[1033] Bosco García-Archilla and Javier de Frutos. Time integration of the nonlinear Galerkin method. *IMA Journal of Numerical Analysis*, 15(2):221–244, 1995. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Garcia-Archilla:2021:SPS

[1034] Bosco García-Archilla, Volker John, and Julia Novo. Symmetric pressure stabilization for equal-order finite element approximations to the time-dependent Navier–Stokes equations. *IMA Journal of Numerical Analysis*, 41(2):1093–1129, April 2021. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/41/2/1093/5861575.

Garcia-Archilla:2023:REB

[1035] Bosco García-Archilla and Julia Novo. Robust error bounds for the Navier–Stokes equations using implicit-explicit second-order BDF method with variable steps. *IMA Journal of Numerical Analysis*, 43(5):2892–2933, September 2023. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/43/5/2892/6748175.

Garcia-Archilla:2025:PCR

[1036] Bosco García-Archilla and Julia Novo. Pressure and convection robust bounds for continuous interior penalty divergence-free finite element methods for the incompressible Navier–Stokes equations. *IMA Journal of Numerical Analysis*, 45(1):163–187, January 2025. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/45/1/163/7595895.

Garcke:2021:SPD

[1037] Harald Garcke and Robert Nürnberg. Structure-preserving discretizations of gradient flows for axisymmetric two-phase biomembranes. *IMA Journal of Numerical Analysis*, 41(3): 1899–1940, July 2021. CODEN IJNADH. ISSN 0272-4979 (print),

1464-3642 (electronic). URL http://academic.oup.com/imajna/article/41/3/1899/5863415.

Gardini:2018:VEM

[1038] Francesca Gardini and Giuseppe Vacca. Virtual element method for second-order elliptic eigenvalue problems. *IMA Journal of Numerical Analysis*, 38(4):2026–2054, October 16, 2018. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/38/4/2026/4602859.

Garralda-Guillem:2014:PEA

[1039] Ana I. Garralda-Guillem, Manuel Ruiz Galán, Gabriel N. Gatica, and Antonio Márquez. A posteriori error analysis of twofold saddle point variational formulations for nonlinear boundary value problems. *IMA Journal of Numerical Analysis*, 34(1):326–361, January 2014. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/34/1/326.full.pdf+html.

Gartland:1989:CHO

[1040] Eugene C. Gartland, Jr. Compact high-order finite differences for interface problems in one dimension. *IMA Journal of Numerical Analysis*, 9(2):243–260, 1989. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Gasperini:2023:ASD

[1041] D. Gasperini, H-P. Beise, U. Schroeder, X. Antoine, and C. Geuzaine. An analysis of the steepest descent method to efficiently compute the three-dimensional acoustic single-layer operator in the high-frequency regime. *IMA Journal of Numerical Analysis*, 43(3):1831–1854, May 2023. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/43/3/1831/6678755.

Gaspoz:2016:OGN

[1042] Fernando D. Gaspoz, Claus-Justus Heine, and Kunibert G. Siebert. Optimal grading of the newest vertex bisection and H^1-stability of the L_2-projection. *IMA Journal of Numerical Analysis*, 36(3):1217–1241, July 2016. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/36/3/1217.

Gaspoz:2009:CRA

[1043] Fernando D. Gaspoz and Pedro Morin. Convergence rates for adaptive finite elements. *IMA Journal of Numerical Analysis*, 29(4):917–936, October 2009. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/cgi/content/abstract/29/4/917; http://imajna.oxfordjournals.org/cgi/reprint/29/4/917.

Gaspoz:2019:CTS

[1044] Fernando D. Gaspoz, Kunibert Siebert, Christian Kreuzer, and Daniel A. Ziegler. A convergent time-space adaptive $dG(s)$ finite element method for parabolic problems motivated by equal error distribution. *IMA Journal of Numerical Analysis*, 39(2):650–

686, April 2019. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/39/2/650/4960122.

Gass:2019:PIM

[1045] Maximilian Gaß and Kathrin Glau. Parametric integration by magic point empirical interpolation. *IMA Journal of Numerical Analysis*, 39(1):315–341, January 25, 2019. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/39/1/315/4774576.

Gastaldi:1994:DDT

[1046] Fabio Gastaldi and Lucia Gastaldi. On a domain decomposition for the transport equation: theory and finite element approximation. *IMA Journal of Numerical Analysis*, 14(1):111–135, 1994. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Gastaldo:2011:DPM

[1047] Laura Gastaldo, Raphaèle Herbin, and Jean-Claude Latché. A discretization of the phase mass balance in fractional step algorithms for the drift-flux model. *IMA Journal of Numerical Analysis*, 31(1):116–146, January 2011. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/31/1/116.full.pdf+html.

Gatica:2003:NAN

[1048] Gabriel N. Gatica, Norbert Heuer, and Salim Meddahi. On the numerical analysis of nonlinear twofold saddle point problems. *IMA Journal of Numerical Analysis*, 23(2):301–330, April 2003. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_23/Issue_02/230301.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_23/Issue_02/pdf/230301.pdf.

Gatica:2012:FEA

[1049] Gabriel N. Gatica and Salim Meddahi. Finite element analysis of a time harmonic Maxwell problem with an impedance boundary condition. *IMA Journal of Numerical Analysis*, 32(2):534–552, April 2012. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/32/2/534.full.pdf+html.

Gatica:2009:CMF

[1050] Gabriel N. Gatica, Salim Meddahi, and Ricardo Oyarzúa. A conforming mixed finite-element method for the coupling of fluid flow with porous media flow. *IMA Journal of Numerical Analysis*, 29(1):86–108, January 2009. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Gatica:2022:SBF

[1051] Gabriel N. Gatica, Salim Meddahi, and Ricardo Ruiz-Baier. An L^p spaces-based formulation yielding a new fully mixed finite element method for the coupled Darcy and heat equations. *IMA Journal of Numerical Analysis*, 42(4):3154–3206, October 2022. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://

academic.oup.com/imajna/article/42/4/3154/6368060.

Gatica:2012:TSP

[1052] Gabriel N. Gatica, Ricardo Oyarzúa, and Francisco-Javier Sayas. A twofold saddle point approach for the coupling of fluid flow with nonlinear porous media flow. *IMA Journal of Numerical Analysis*, 32(3):845–887, July 2012. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/32/3/845.full.pdf+html.

Gauckler:2011:CSS

[1053] Ludwig Gauckler. Convergence of a split-step Hermite method for the Gross–Pitaevskii equation. *IMA Journal of Numerical Analysis*, 31(2):396–415, April 2011. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/31/2/396.full.pdf+html.

Gauckler:2017:NLT

[1054] Ludwig Gauckler. Numerical long-time energy conservation for the nonlinear Schrödinger equation. *IMA Journal of Numerical Analysis*, 37(4):2067–2090, October 1, 2017. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL https://academic.oup.com/imajna/article/37/4/2067/2670309.

Gavrilyuk:2007:ECP

[1055] I. P. Gavrilyuk, A. V. Klimenko, V. L. Makarov, and N. O. Rossokhata. Exponentially convergent parallel algorithm for nonlinear eigenvalue problems. *IMA Journal of Numerical Analysis*, 27(4):818–838, October 2007. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/cgi/content/abstract/27/4/818; http://imajna.oxfordjournals.org/cgi/reprint/27/4/818.

Gazca-Orozco:2025:SCD

[1056] Pablo Alexei Gazca-Orozco and Alex Kaltenbach. On the stability and convergence of discontinuous Galerkin schemes for incompressible flows. *IMA Journal of Numerical Analysis*, 45(1):243–282, January 2025. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/45/1/243/7639902.

Geevers:2023:FML

[1057] Sjoerd Geevers and Roland Maier. Fast mass lumped multiscale wave propagation modelling. *IMA Journal of Numerical Analysis*, 43(1):44–72, January 2023. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/43/1/44/6432386.

Gensun:2005:CDR

[1058] Fang Gensun and Ye Peixin. Complexity of deterministic and randomized methods for multivariate integration problems for the class $H_p^\Lambda(I^d)$. *IMA Journal of Numerical Analysis*, 25(3):473–485, July 2005. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imanum.oxfordjournals.org/cgi/content/abstract/25/3/473; http://imanum.

oxfordjournals.org/cgi/reprint/25/3/473.

Georgoulis:2019:PEB

[1059] Emmanuil H. Georgoulis, Edward Hall, and Charalambos Makridakis. An a posteriori error bound for discontinuous Galerkin approximations of convection-diffusion problems. *IMA Journal of Numerical Analysis*, 39(1): 34–60, January 25, 2019. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/39/1/34/4772755.

Georgoulis:2009:DGM

[1060] Emmanuil H. Georgoulis and Paul Houston. Discontinuous Galerkin methods for the biharmonic problem. *IMA Journal of Numerical Analysis*, 29(3):573–594, July 2009. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/cgi/content/abstract/29/3/573; http://imajna.oxfordjournals.org/cgi/reprint/29/3/573.

Georgoulis:2011:PEI

[1061] Emmanuil H. Georgoulis, Paul Houston, and Juha Virtanen. An a posteriori error indicator for discontinuous Galerkin approximations of fourth-order elliptic problems. *IMA Journal of Numerical Analysis*, 31(1):281–298, January 2011. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/31/1/281.full.pdf+html.

Georgoulis:2013:PEB

[1062] Emmanuil H. Georgoulis, Omar Lakkis, and Charalambos Makridakis. A posteriori $L^\infty(L^2)$-error bounds for finite element approximations to the wave equation. *IMA Journal of Numerical Analysis*, 33(4):1245–1264, October 2013. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/33/4/1245.full.pdf+html.

Georgoulis:2006:NDV

[1063] Emmanuil H. Georgoulis and Andris Lasis. A note on the design of *hp*-version interior penalty discontinuous Galerkin finite element methods for degenerate problems. *IMA Journal of Numerical Analysis*, 26(2):381–390, April 2006. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imanum.oxfordjournals.org/cgi/content/abstract/26/2/381; http://imanum.oxfordjournals.org/cgi/reprint/26/2/381.

Georgoulis:2023:LBE

[1064] Emmanuil H. Georgoulis and Charalambos G. Makridakis. Lower bounds, elliptic reconstruction and *a posteriori* error control of parabolic problems. *IMA Journal of Numerical Analysis*, 43(6):3212–3242, November 2023. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/43/6/3212/7025976.

Georgoulis:2005:OEE

[1065] Emmanuil H. Georgoulis and Endre Süli. Optimal error estimates for the *hp*-version interior penalty discontinuous Galerkin finite element method. *IMA Journal of Numerical Analysis*, 25(1):205–220, January 2005. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imanum.oupjournals.org/cgi/content/abstract/25/1/205; http://imanum.oupjournals.org/cgi/reprint/25/1/205.

Gerisch:2010:AEE

[1066] A. Gerisch. On the approximation and efficient evaluation of integral terms in PDE models of cell adhesion. *IMA Journal of Numerical Analysis*, 30(1):173–194, January 2010. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/cgi/content/abstract/30/1/173; http://imajna.oxfordjournals.org/cgi/reprint/30/1/173.

Gerrard:1984:APC

[1067] C. Gerrard and K. Wright. Asymptotic properties of collocation matrix norms. II. Piecewise polynomial approximation. *IMA Journal of Numerical Analysis*, 4(3):363–373, July 1984. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Gervais:2002:NSC

[1068] Jean-Jacques Gervais and Hassan Sadiky. A new steplength control for continuation with the asymptotic numerical method. *IMA Journal of Numerical Analysis*, 22(2):207–229, April 2002. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_22/Issue_02/220207.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_22/Issue_02/pdf/220207.pdf.

Ghelardoni:2003:NSR

[1069] P. Ghelardoni, G. Gheri, and M. Marletta. Numerical solution of a λ-rational Sturm–Liouville problem. *IMA Journal of Numerical Analysis*, 23(1):29–53, January 2003. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_23/Issue_01/230029.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_23/Issue_01/pdf/230029.pdf.

Ghosh:2016:FBF

[1070] Aditi Ghosh and Prabir Daripa. The FFTRR-based fast decomposition methods for solving complex biharmonic problems and incompressible flows. *IMA Journal of Numerical Analysis*, 36(2):824–850, April 2016. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/36/2/824.

Gibbs:2021:HFB

[1071] Andrew Gibbs, Simon N. Chandler-Wilde, Stephen Langdon, and Andrea Moiola. A high-frequency boundary element method for scattering by a class of multiple obstacles. *IMA Journal of Numerical Analysis*, 41(2):1197–1225, April 2021. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/41/2/1197/5874885.

Giesselmann:2015:LMA

[1072] Jan Giesselmann. Low Mach asymptotic-preserving scheme for the Euler–Korteweg model. *IMA Journal of Numerical Analysis*, 35(2):802–833, April 2015. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/35/2/802`.

Giesselmann:2016:RRE

[1073] Jan Giesselmann and Tristan Pryer. Reduced relative entropy techniques for a posteriori analysis of multiphase problems in elastodynamics. *IMA Journal of Numerical Analysis*, 36(4):1685–1714, October 2016. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/36/4/1685`.

Gil:2011:FAC

[1074] Amparo Gil, Javier Segura, and Nico M. Temme. Fast and accurate computation of the Weber parabolic cylinder function $W(a, x)$. *IMA Journal of Numerical Analysis*, 31(3):1194–1216, July 2011. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/31/3/1194.full.pdf+html`.

Gilbert:2024:MQMa

[1075] Alexander D. Gilbert and Robert Scheichl. Multilevel quasi-Monte Carlo for random elliptic eigenvalue problems I: regularity and error analysis. *IMA Journal of Numerical Analysis*, 44 (1):466–503, January 2024. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/44/1/466/7189981`.

Gilbert:2024:MQMb

[1076] Alexander D. Gilbert and Robert Scheichl. Multilevel quasi-Monte Carlo for random elliptic eigenvalue problems II: efficient algorithms and numerical results. *IMA Journal of Numerical Analysis*, 44(1):504–535, January 2024. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/44/1/504/7165317`.

Gilbert:1990:ESI

[1077] J. Gilbert and W. A. Light. Envelope solutions for implicit ordinary differential equations. *IMA Journal of Numerical Analysis*, 10(1):49–61, January 1990. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Giles:1997:SCD

[1078] M. B. Giles. On the stability and convergence of discretizations of initial value p.d.e.s. *IMA Journal of Numerical Analysis*, 17(4):563–576, October 1997. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://www3.oup.co.uk/imanum/hdb/Volume_17/Issue_04/170563.sgm.abs.html`.

Gill:2017:SSM

[1079] Philip E. Gill, Vyacheslav Kungurtsev, and Daniel P. Robinson. A stabilized SQP method: global convergence. *IMA Journal of Numerical Analysis*, 37(1):407–443, January 1, 2017. CODEN IJNADH. ISSN

0272-4979 (print), 1464-3642 (electronic). URL https://academic.oup.com/imajna/article/37/1/407/2669936/A-stabilized-SQP-method-global-convergence.

Giraud:2002:WMG

[1080] L. Giraud and J. Langou. When modified Gram–Schmidt generates a well-conditioned set of vectors. *IMA Journal of Numerical Analysis*, 22(4): 521–528, October 2002. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_22/Issue_04/220521.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_22/Issue_04/pdf/220521.pdf.

Giraud:1999:SCP

[1081] Luc Giraud and Ray S. Tuminaro. Schur complement preconditioners for anisotropic problems. *IMA Journal of Numerical Analysis*, 19(1): 1–18, January 1999. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_19/Issue_01/190001.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_19/Issue_01/pdf/190001.pdf.

Girault:2004:DDM

[1082] V. Girault, R. Glowinski, and H. López. A domain decomposition and mixed method for a linear parabolic boundary value problem. *IMA Journal of Numerical Analysis*, 24 (3):491–520, July 2004. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_24/Issue_03/240491.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_24/Issue_03/pdf/240491.pdf.

Girault:1996:FEE

[1083] V. Girault and H. Lopez. Finite-element error estimates for the MAC scheme. *IMA Journal of Numerical Analysis*, 16(3):347–379, July 1996. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_16/Issue_03/160347.sgm.abs.html.

Girault:2022:AEP

[1084] Vivette Girault, Olivier Pironneau, and Po-Yi Wu. Analysis of an electroless plating problem. *IMA Journal of Numerical Analysis*, 42(4):2884–2923, October 2022. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/42/4/2884/6414066.

Gittelson:2012:RGF

[1085] Claude Jeffrey Gittelson. Representation of Gaussian fields in series with independent coefficients. *IMA Journal of Numerical Analysis*, 32(1):294–319, January 2012. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/32/1/294.full.pdf+html.

Gladwell:1990:EMS

[1086] I. Gladwell and R. M. Thomas. Efficiency of methods for second-order problems. *IMA Journal of Numerical Analysis*, 10(2):181–207, 1990. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Glaister:1988:SRP

[1087] P. Glaister. A shock-reflection problem in compressible-gas dynamics with a similarity solution. *IMA Journal of Numerical Analysis*, 8(3):343–356, 1988. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Glaubitz:2023:CAP

[1088] Jan Glaubitz. Construction and application of provable positive and exact cubature formulas. *IMA Journal of Numerical Analysis*, 43(3): 1616–1652, May 2023. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/43/3/1616/6586010`.

Glowinski:1984:FEA

[1089] R. Glowinski, L. D. Marini, and M. Vidrascu. Finite-element approximations and iterative solutions of a fourth-order elliptic variational inequality. *IMA Journal of Numerical Analysis*, 4(2):127–167, April 1984. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Glunt:1995:APM

[1090] William K. Glunt. An alternating projections method for certain linear problems in a Hilbert space. *IMA Journal of Numerical Analysis*, 15(2):291–305, 1995. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

GmeligMeyling:1987:BSA

[1091] R. H. J. Gmelig Meyling and P. R. Pfluger. B-spline approximation of a closed surface. *IMA Journal of Numerical Analysis*, 7(1):73–96, 1987. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Goda:2020:REA

[1092] Takashi Goda. Richardson extrapolation allows truncation of higher-order digital nets and sequences. *IMA Journal of Numerical Analysis*, 40 (3):2052–2075, July 2020. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/40/3/2052/5437532`.

Goda:2017:OOQ

[1093] Takashi Goda, Kosuke Suzuki, and Takehito Yoshiki. Optimal order quasi-Monte Carlo integration in weighted Sobolev spaces of arbitrary smoothness. *IMA Journal of Numerical Analysis*, 37(1):505–518, January 1, 2017. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `https://academic.oup.com/imajna/article/37/1/505/2669950/Optimal-order-quasi-Monte-Carlo-integration-in`.

Goldfarb:2008:NSF

[1094] D. Goldfarb and K. Scheinberg. Numerically stable LDL^T factorizations in interior point methods for convex quadratic programming. *IMA Journal of Numerical Analysis*, 28 (4):806–826, October 2008. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/cgi/content/abstract/28/4/806`.

Golub:2009:QAY

[1095] Gene Golub and Frank Uhlig. The QR algorithm: 50 years later its genesis by

John Francis and Vera Kublanovskaya and subsequent developments. *IMA Journal of Numerical Analysis*, 29(3): 467–485, July 2009. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/cgi/content/abstract/29/3/467; http://imajna.oxfordjournals.org/cgi/reprint/29/3/467.

Gomes:2023:MML

[1096] Antônio Tadeu A. Gomes, Weslley S. Pereira, and Frédéric Valentin. The MHM method for linear elasticity on polytopal meshes. *IMA Journal of Numerical Analysis*, 43 (4):2265–2298, July 2023. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/43/4/2265/6674195.

Gong:2021:DDP

[1097] Shihua Gong, Ivan G. Graham, and Euan A. Spence. Domain decomposition preconditioners for high-order discretizations of the heterogeneous Helmholtz equation. *IMA Journal of Numerical Analysis*, 41(3): 2139–2185, July 2021. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/41/3/2139/6030100.

Gong:2020:IEE

[1098] Wei Gong and Buyang Li. Improved error estimates for semidiscrete finite element solutions of parabolic Dirichlet boundary control problems. *IMA Journal of Numerical Analysis*, 40(4): 2898–2939, October 2020. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/40/4/2898/5543027.

Gong:2024:CEF

[1099] Wei Gong, Buyang Li, and Qiqi Rao. Convergent evolving finite element approximations of boundary evolution under shape gradient flow. *IMA Journal of Numerical Analysis*, 44(5): 2667–2697, September 2024. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/44/5/2667/7329551.

Gong:2019:CAF

[1100] Wei Gong, Wenbin Liu, Zhiyu Tan, and Ningning Yan. A convergent adaptive finite element method for elliptic Dirichlet boundary control problems. *IMA Journal of Numerical Analysis*, 39 (4):1985–2015, October 2019. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/39/4/1985/5068728. See corrigendum [1101].

Gong:2020:CCA

[1101] Wei Gong, Wenbin Liu, Zhiyu Tan, and Ningning Yan. Corrigendum to: A convergent adaptive finite element method for elliptic Dirichlet boundary control problems. *IMA Journal of Numerical Analysis*, 40(1):800, January 2020. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/40/1/800/5114643. See [1100].

Gonon:2022:UEE

[1102] Lukas Gonon, Philipp Grohs, Arnulf Jentzen, David Kofler, and David Siska. Uniform error estimates for artificial neural network approximations for heat equations. *IMA Journal of Numerical Analysis*, 42(3): 1991–2054, July 2022. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/42/3/1991/6279436`.

Gonzalez:1999:QPM

[1103] O. Gonzalez, D. J. Higham, and A. M. Stuart. Qualitative properties of modified equations. *IMA Journal of Numerical Analysis*, 19(2): 169–190, April 1999. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://www3.oup.co.uk/imanum/hdb/Volume_19/Issue_02/190169.sgm.abs.html`; `http://www3.oup.co.uk/imanum/hdb/Volume_19/Issue_02/pdf/190169.pdf`.

Goodman:1998:LPA

[1104] Tim N. T. Goodman, Charles A. Micchelli, Giuseppe Rodriguez, and Sebastiano Seatzu. On the limiting profile arising from orthonormalizing shifts of exponentially decaying functions. *IMA Journal of Numerical Analysis*, 18(3):331–354, July 1998. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://www3.oup.co.uk/imanum/hdb/Volume_18/Issue_03/180331.sgm.abs.html`; `http://www3.oup.co.uk/imanum/hdb/Volume_18/Issue_03/pdf/180331.pdf`.

Goodsell:1997:MTM

[1105] George Goodsell. A multigrid-type method for thin plate spline interpolation on a circle. *IMA Journal of Numerical Analysis*, 17(2): 321–327, April 1997. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://www3.oup.co.uk/imanum/hdb/Volume_17/Issue_02/170321.sgm.abs.html`.

Gopalakrishnan:2012:SEE

[1106] J. Gopalakrishnan and J. Guzmán. A second elasticity element using the matrix bubble. *IMA Journal of Numerical Analysis*, 32(1):352–372, January 2012. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/32/1/352.full.pdf+html`.

Gopalakrishnan:2020:MCM

[1107] Jay Gopalakrishnan, Philip L. Lederer, and Joachim Schöberl. A mass conserving mixed stress formulation for the Stokes equations. *IMA Journal of Numerical Analysis*, 40 (3):1838–1874, July 2020. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/40/3/1838/5485875`.

Gordon:2012:SSC

[1108] Andrew D. Gordon and Catherine E. Powell. On solving stochastic collocation systems with algebraic multigrid. *IMA Journal of Numerical Analysis*, 32(3):1051–1070, July 2012. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/32/3/1051.full.pdf+html`.

Gorynina:2019:TSA

[1109] Olga Gorynina, Alexei Lozinski, and Marco Picasso. Time and space adaptivity of the wave equation discretized in time by a second-order scheme. *IMA Journal of Numerical Analysis*, 39(4): 1672–1705, October 2019. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/39/4/1672/5058939`.

Goudon:2022:TCD

[1110] Thierry Goudon, Stella Krell, Julie Llobell, and Sebastian Minjeaud. Transfer of conservative discrete differential operators between staggered grids: construction and duality relations. *IMA Journal of Numerical Analysis*, 42 (3):2459–2504, July 2022. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/42/3/2459/6299940`.

Gould:1991:ALS

[1111] Nicholas I. M. Gould. An algorithm for large-scale quadratic programming. *IMA Journal of Numerical Analysis*, 11(3):299–324, 1991. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Gould:2012:SDS

[1112] Nicholas I. M. Gould and Daniel P. Robinson. A second-derivative SQP method with a 'trust-region-free' predictor step. *IMA Journal of Numerical Analysis*, 32(2):580–601, April 2012. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/32/2/580.full.pdf+html`.

Gould:1986:ADS

[1113] Nicholas Ian Mark Gould. On the accurate determination of search directions for simple differentiable penalty functions. *IMA Journal of Numerical Analysis*, 6(3):357–372, 1986. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Gourlay:1981:LCG

[1114] A. R. Gourlay and J. Ll. Morris. Linear combinations of generalized Crank–Nicolson schemes. *IMA Journal of Numerical Analysis*, 1(3):347–357, 1981. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Gout:1985:RWT

[1115] J.-L. Gout. Rational Wachspress-type finite elements on regular hexagons. *IMA Journal of Numerical Analysis*, 5(1):59–77, 1985. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Govaerts:1993:MBE

[1116] W. Govaerts and J. D. Pryce. Mixed block elimination for linear systems with wider borders. *IMA Journal of Numerical Analysis*, 13(2):161–180, 1993. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Gover:1985:ITM

[1117] M. J. C. Gover and S. Barnett. Inversion of Toeplitz matrices which are not strongly nonsingular. *IMA Journal of Numerical Analysis*, 5(1):101–110, 1985. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Graham:2005:FED

[1118] I. G. Graham, W. Hackbusch, and S. A. Sauter. Finite elements on degenerate meshes: inverse-type inequalities and applications. *IMA Journal of Numerical Analysis*, 25(2):379–407, April 2005. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imanum.oupjournals.org/cgi/content/abstract/25/2/379`; `http://imanum.oupjournals.org/cgi/reprint/25/2/379`.

Graham:1993:SIA

[1119] Ivan G. Graham and Kendall E. Atkinson. On the Sloan iteration applied to integral equations of the first kind. *IMA Journal of Numerical Analysis*, 13(1):29–41, 1993. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Graham:1985:IGV

[1120] Ivan G. Graham, Stephen Joe, and Ian H. Sloan. Iterated Galerkin versus iterated collocation for integral equations of the second kind. *IMA Journal of Numerical Analysis*, 5(3):355–369, 1985. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Graham:1989:NPI

[1121] Ivan G. Graham and Wendy R. Mendes. Nyström-product integration for Wiener–Hopf equations with applications to radiative transfer. *IMA Journal of Numerical Analysis*, 9(2):261–284, 1989. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Graham:2021:EAU

[1122] Ivan G. Graham, Matthew J. Parkinson, and Robert Scheichl. Error analysis and uncertainty quantification for the heterogeneous transport equation in slab geometry. *IMA Journal of Numerical Analysis*, 41(4):2331–2361, October 2021. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/41/4/2331/5882121`.

Grant:1983:DZL

[1123] J. A. Grant and A. Ghiatis. Determination of the zeros of a linear combination of Chebyshev polynomials. *IMA Journal of Numerical Analysis*, 3(2):193–206, 1983. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Grapiglia:2021:CAL

[1124] Geovani Nunes Grapiglia and Ya xiang Yuan. On the complexity of an augmented Lagrangian method for nonconvex optimization. *IMA Journal of Numerical Analysis*, 41 (2):1546–1568, April 2021. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/41/2/1546/5867668`.

Graser:2019:DEE

[1125] Carsten Gräser and Tobias Kies. Discretization error estimates for penalty formulations of a linearized Canham–Helfrich-type energy. *IMA Journal of Numerical Analysis*, 39(2):626–649, April 2019. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/39/2/626/4788734.

Graser:2013:TDA

[1126] Carsten Gräser, Ralf Kornhuber, and Uli Sack. Time discretizations of anisotropic Allen–Cahn equations. *IMA Journal of Numerical Analysis*, 33(4):1226–1244, October 2013. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/33/4/1226.full.pdf+html.

Graser:2015:NSN

[1127] Carsten Gräser, Ralf Kornhuber, and Uli Sack. Nonsmooth Schur–Newton methods for multicomponent Cahn–Hilliard systems. *IMA Journal of Numerical Analysis*, 35(2):652–679, April 2015. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/35/2/652.

Graser:2019:TNN

[1128] Carsten Gräser and Oliver Sander. Truncated nonsmooth Newton multigrid methods for block-separable minimization problems. *IMA Journal of Numerical Analysis*, 39(1):454–481, January 25, 2019. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/39/1/454/5153291.

Gratton:2023:ARM

[1129] S. Gratton and Ph L. Toint. Adaptive regularization minimization algorithms with nonsmooth norms. *IMA Journal of Numerical Analysis*, 43(2):920–949, March 2023. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/43/2/920/6550816.

Gratton:2025:YAF

[1130] Serge Gratton, Sadok Jerad, and Philippe L. Toint. Yet another fast variant of Newton's method for nonconvex optimization. *IMA Journal of Numerical Analysis*, 45(2):971–1008, March 2025. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/45/2/971/7732374.

Gratton:2008:RTR

[1131] Serge Gratton, Mélodie Mouffe, Philippe L. Toint, and Melissa Weber-Mendonça. A recursive-trust-region method for bound-constrained nonlinear optimization. *IMA Journal of Numerical Analysis*, 28(4):827–861, October 2008. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/cgi/content/abstract/28/4/827.

Gratton:2018:CGR

[1132] Serge Gratton, Clément W. Royer, Luís N. Vicente, and Zaikun Zhang. Complexity and global rates of trust-region methods based on probabilistic models. *IMA Journal of Numerical Analysis*, 38(3):1579–1597, July 17, 2018. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/38/3/1579/4084726.

Graves-Morris:1984:VVR

[1133] P. R. Graves-Morris. Vector-valued rational interpolants. II. *IMA Journal of Numerical Analysis*, 4(2):209–224, April 1984. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Greenberg:1995:OTN

[1134] Leon Greenberg and Marco Marletta. Oscillation theory and numerical solution of fourth-order Sturm–Liouville problems. *IMA Journal of Numerical Analysis*, 15(3):319–356, 1995. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Gregory:1982:PRQ

[1135] J. A. Gregory and R. Delbourgo. Piecewise rational quadratic interpolation to monotonic data. *IMA Journal of Numerical Analysis*, 2(2):123–130, April 1982. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Griebel:2014:ABV

[1136] Michael Griebel and Helmut Harbrecht. Approximation of bi-variate functions: singular value decomposition versus sparse grids. *IMA Journal of Numerical Analysis*, 34(1):28–54, January 2014. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/34/1/28.full.pdf+html`.

Griebel:2019:SVD

[1137] Michael Griebel and Helmut Harbrecht. Singular value decomposition versus sparse grids: refined complexity estimates. *IMA Journal of Numerical Analysis*, 39(4):1652–1671, October 2019. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/39/4/1652/5048349`.

Griewank:1983:CHP

[1138] A. Griewank and G. Reddien. The calculation of Hopf points by a direct method. *IMA Journal of Numerical Analysis*, 3(3):295–303, 1983. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Griffiths:1988:SPB

[1139] D. F. Griffiths and A. R. Mitchell. Stable periodic bifurcations of an explicit discretization of a nonlinear partial differential equation in reaction diffusion. *IMA Journal of Numerical Analysis*, 8(4):435–454, October 1988. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Griffiths:1992:SAN

[1140] D. F. Griffiths, P. K. Sweby, and H. C. Yee. On spurious asymptotic numerical solutions of explicit Runge–Kutta methods. *IMA Journal of Numerical Analysis*, 12(3):319–338, 1992. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). IMA Conference on Dynamics of Numerics and Numerics of Dynamics (Bristol, 1990).

Griffiths:2010:ARM

[1141] David F. Griffiths and Chus (J. M.) Sanz-Serna. Andrew Ronald Mitchell. *IMA Journal of Numerical Analysis*, 30(1):1–3, January 2010. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/cgi/reprint/30/1/1.

Grindrod:2010:PR

[1142] Peter Grindrod, Desmond J. Higham, and Gabriela Kalna. Periodic reordering. *IMA Journal of Numerical Analysis*, 30(1):195–207, January 2010. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/cgi/content/abstract/30/1/195; http://imajna.oxfordjournals.org/cgi/reprint/30/1/195.

Grohs:2016:NTR

[1143] P. Grohs and S. Hosseini. Nonsmooth trust region algorithms for locally Lipschitz functions on Riemannian manifolds. *IMA Journal of Numerical Analysis*, 36(3):1167–1192, July 2016. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/36/3/1167.

Grohs:2009:SIM

[1144] Philipp Grohs. Smoothness of interpolatory multivariate subdivision in Lie groups. *IMA Journal of Numerical Analysis*, 29(3):760–772, July 2009. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/cgi/content/abstract/29/3/760; http://imajna.oxfordjournals.org/cgi/reprint/29/3/760.

Grohs:2022:DNN

[1145] Philipp Grohs and Lukas Herrmann. Deep neural network approximation for high-dimensional elliptic PDEs with boundary conditions. *IMA Journal of Numerical Analysis*, 42(3):2055–2082, July 2022. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/42/3/2055/6272090.

Grossmann:1986:FGG

[1146] Ch. Grossmann and H.-G. Roos. Feedback grid generation via monotone discretization for two-point boundary-value problems. *IMA Journal of Numerical Analysis*, 6(4):421–432, 1986. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Grote:2008:IPD

[1147] Marcus J. Grote, Anna Schneebeli, and Dominik Schötzau. Interior penalty discontinuous Galerkin method for Maxwell's equations: optimal L^2-norm error estimates. *IMA Journal of Numerical Analysis*, 28(3):440–468, July 2008. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/cgi/content/abstract/28/3/440; http://imajna.oxfordjournals.org/cgi/reprint/28/3/440.

Grothaus:2016:NPD

[1148] Martin Grothaus and Nicole Marheineke. On a nonlinear partial differential algebraic system arising in the technical textile industry: analysis and numerics. *IMA Journal of Numerical Analysis*, 36(4):1783–1803, October 2016. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/36/4/1783.

Grune:2001:PAO

[1149] Lars Grüne. Persistence of attractors for one-step discretization of ordinary differential equations. *IMA Journal of Numerical Analysis*, 21(3): 751–767, July 2001. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_21/Issue_03/210751.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_21/Issue_03/pdf/210751.pdf.

Gu:2021:MLM

[1150] Ran Gu and Qiang Du. A modified limited memory steepest descent method motivated by an inexact super-linear convergence rate analysis. *IMA Journal of Numerical Analysis*, 41(1):247–270, January 2021. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/41/1/247/5819219.

Gu:2021:PSP

[1151] Ran Gu, Qiang Du, and Ya xiang Yuan. Positive semidefinite penalty method for quadratically constrained quadratic programming. *IMA Journal of Numerical Analysis*, 41(4):2488–2515, October 2021. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/41/4/2488/5893398.

Gu:2024:LIE

[1152] Xuelong Gu, Wenjun Cai, Yushun Wang, and Chaolong Jiang. Linearly implicit energy-preserving integrating factor methods and convergence analysis for the 2D nonlinear Schrödinger equation with wave operator. *IMA Journal of Numerical Analysis*, 44 (4):2513–2549, July 2024. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/44/4/2513/7280454.

Guan:2012:ACS

[1153] Qingguang Guan, Ran Zhang, and Yongkui Zou. Analysis of collocation solutions for nonstandard Volterra integral equations. *IMA Journal of Numerical Analysis*, 32(4):1755–1785, October 2012. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/32/4/1755.full.pdf+html.

Gudi:2011:IPM

[1154] Thirupathi Gudi and Michael Neilan. An interior penalty method for a sixth-order elliptic equation. *IMA Journal of Numerical Analysis*, 31(4):1734–1753, October 2011. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/31/4/1734.full.pdf+html.

Guermond:2001:SSG

[1155] J.-L. Guermond. Subgrid stabilization of Galerkin approximations of linear monotone operators. *IMA Journal of Numerical Analysis*, 21(1):165–197, January 2001. CODEN IJ-

NADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_21/Issue_01/210165.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_21/Issue_01/pdf/210165.pdf.

Guermond:2009:LCF

[1156] J.-L. Guermond. The LBB condition in fractional Sobolev spaces and applications. *IMA Journal of Numerical Analysis*, 29(3):790–805, July 2009. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/cgi/content/abstract/29/3/790; http://imajna.oxfordjournals.org/cgi/reprint/29/3/790.

Guglielmi:2003:SOL

[1157] N. Guglielmi and M. Zennaro. Stability of one-leg Θ-methods for the variable coefficient pantograph equation on the quasi-geometric mesh. *IMA Journal of Numerical Analysis*, 23(3):421–438, July 2003. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_23/Issue_03/drg005.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_23/Issue_03/pdf/drg005.pdf.

Guglielmi:1998:DDS

[1158] Nicola Guglielmi. Delay dependent stability regions of Θ-methods for delay differential equations. *IMA Journal of Numerical Analysis*, 18(3):399–418, July 1998. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_18/Issue_03/180399.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_18/Issue_03/pdf/180399.pdf.

Guglielmi:2006:SPC

[1159] Nicola Guglielmi. Short proofs and a counterexample for analytical and numerical stability of delay equations with infinite memory. *IMA Journal of Numerical Analysis*, 26(1):60–77, January 2006. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imanum.oxfordjournals.org/cgi/content/abstract/26/1/60; http://imanum.oxfordjournals.org/cgi/reprint/26/1/60.

Guglielmi:2001:GPN

[1160] Nicola Guglielmi and Ernst Hairer. Geometric proofs of numerical stability for delay equations. *IMA Journal of Numerical Analysis*, 21(1):439–450, January 2001. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_21/Issue_01/210439abs.pdf; http://www3.oup.co.uk/imanum/hdb/Volume_21/Issue_01/pdf/210439.pdf.

Guglielmi:2015:ARS

[1161] Nicola Guglielmi and Manuela Manetta. Approximating real stability radii. *IMA Journal of Numerical Analysis*, 35(3):1402–1425, July 2015. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/35/3/1402.

Guillen-Gonzalez:2011:NEE

[1162] F. Guillén-González and M. V. Redondo-Neble. New error estimates for a viscosity-splitting scheme in time for the three-dimensional Navier–Stokes equations. *IMA Journal of Numerical Analysis*, 31(2):556–579, April 2011. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/31/2/556.full.pdf+html`.

Gunzburger:2020:LRE

[1163] Max Gunzburger, Traian Iliescu, and Michael Schneier. A Leray regularized ensemble-proper orthogonal decomposition method for parameterized convection-dominated flows. *IMA Journal of Numerical Analysis*, 40 (2):886–913, April 2020. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/40/2/886/5299776`.

Gunzburger:2019:EAS

[1164] Max Gunzburger, Nan Jiang, and Zhu Wang. An efficient algorithm for simulating ensembles of parameterized flow problems. *IMA Journal of Numerical Analysis*, 39(3):1180–1205, July 2019. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/39/3/1180/5001156`.

Guo:1985:SMS

[1165] Ben Yu Guo and V. S. Manoranjan. A spectral method for solving the RLW equation. *IMA Journal of Numerical Analysis*, 5(3):307–318, 1985. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Guo:2003:QME

[1166] Chun-Hua Guo. On a quadratic matrix equation associated with an M-matrix. *IMA Journal of Numerical Analysis*, 23 (1):11–27, January 2003. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://www3.oup.co.uk/imanum/hdb/Volume_23/Issue_01/230011.sgm.abs.html`; `http://www3.oup.co.uk/imanum/hdb/Volume_23/Issue_01/pdf/230011.pdf`.

Guo:2015:PED

[1167] Chun-Hua Guo, Changli Liu, and Jungong Xue. Performance enhancement of doubling algorithms for a class of complex nonsymmetric algebraic Riccati equations. *IMA Journal of Numerical Analysis*, 35(1):270–288, January 2015. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/35/1/270`.

Guo:2018:SPP

[1168] Hailong Guo, Xu Yang, and Zhimin Zhang. Superconvergence of partially penalized immersed finite element methods. *IMA Journal of Numerical Analysis*, 38(4):2123–2144, October 16, 2018. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/38/4/2123/4108202`.

Guo:2019:GIF

[1169] Ruchi Guo and Tao Lin. A group of immersed finite-element spaces for elliptic interface problems. *IMA Journal of Numerical Analysis*, 39(1):482–511, January 25, 2019. CODEN IJNADH.

ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/39/1/482/4742251.

Guo:1997:PEE

[1170] Wen Guo and Martin Stynes. Pointwise error estimates for a streamline diffusion scheme on a Shishkin mesh for a convection-diffusion problem. *IMA Journal of Numerical Analysis*, 17(1): 29–59, January 1997. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_17/Issue_01/170029.sgm.abs.html.

Gustafsson:1984:PIM

[1171] Ivar Gustafsson. A preconditioned iterative method for the solution of the biharmonic problem. *IMA Journal of Numerical Analysis*, 4(1):55–67, January 1984. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Gutierrez:2000:NMU

[1172] J. M. Gutierrez and M. A. Hernandez. Newton's method under weak Kantorovich conditions. *IMA Journal of Numerical Analysis*, 20(4):521–532, October 2000. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_20/Issue_04/200521abs.pdf; http://www3.oup.co.uk/imanum/hdb/Volume_20/Issue_04/pdf/200521.pdf.

Gutknecht:2011:HWA

[1173] Martin H. Gutknecht and Beresford N. Parlett. From *qd* to *LR*, or, how were the *qd* and *LR* algorithms discovered? *IMA Journal of Numerical Analysis*, 31(3):741–754, July 2011. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/31/3/741.full.pdf+html.

Guttel:2018:RDC

[1174] Stefan Güttel and John W. Pearson. A rational deferred correction approach to parabolic optimal control problems. *IMA Journal of Numerical Analysis*, 38(4):1861–1892, October 16, 2018. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/38/4/1861/4372128.

Guttel:2022:STN

[1175] Stefan Güttel and John W. Pearson. A spectral-in-time Newton–Krylov method for nonlinear PDE-constrained optimization. *IMA Journal of Numerical Analysis*, 42(2): 1478–1499, April 2022. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/42/2/1478/6149286.

Guzman:2014:CDF

[1176] Johnny Guzmán and Michael Neilan. Conforming and divergence-free Stokes elements in three dimensions. *IMA Journal of Numerical Analysis*, 34(4): 1489–1508, October 2014. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/34/4/1489.

Guzman:2017:CDM

[1177] Johnny Guzmán, Chi-Wang Shu, and Filánder A. Sequeira. $H(\mathrm{div})$ conforming and DG methods for incompressible Euler's equations. *IMA Journal of Numerical Analysis*, 37(4):1733–1771, October 1, 2017. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL https://academic.oup.com/imajna/article/37/4/1733/2670304.

Gwiazda:2023:CEM

[1178] Piotr Gwiazda, Błazej Miasojedow, Jakub Skrzeczkowski, and Zuzanna Szymańska. Convergence of the EBT method for a non-local model of cell proliferation with discontinuous interaction kernel. *IMA Journal of Numerical Analysis*, 43(1):590–626, January 2023. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/43/1/590/6513777.

Gwiazda:2025:RCY

[1179] Piotr Gwiazda, Jakub Skrzeczkowski, and Lara Trussardi. On the rate of convergence of Yosida approximation for the nonlocal Cahn–Hilliard equation. *IMA Journal of Numerical Analysis*, 45(1):68–86, January 2025. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/45/1/68/7642323.

Hackbusch:2009:CFL

[1180] W. Hackbusch. Convolution of *hp* functions on locally refined grids. *IMA Journal of Numerical Analysis*, 29(4):960–985, October 2009. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/cgi/content/abstract/29/4/960; http://imajna.oxfordjournals.org/cgi/reprint/29/4/960.

Hackbusch:2009:SCQ

[1181] W. Hackbusch, W. Kress, and S. A. Sauter. Sparse convolution quadrature for time domain boundary integral formulations of the wave equation. *IMA Journal of Numerical Analysis*, 29(1):158–179, January 2009. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Hager:2017:LCA

[1182] William W. Hager, Hongyan Hou, and Anil V. Rao. Lebesgue constants arising in a class of collocation methods. *IMA Journal of Numerical Analysis*, 37(4):1884–1901, October 1, 2017. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL https://academic.oup.com/imajna/article/37/4/1884/2739356.

Hahn:2024:CRB

[1183] Bernadette N. Hahn, Gaël Rigaud, and Richard Schmähl. A class of regularizations based on nonlinear isotropic diffusion for inverse problems. *IMA Journal of Numerical Analysis*, 44(1):225–261, January 2024. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/44/1/225/7057973.

Hairer:1982:OSM

[1184] E. Hairer. A one-step method of order 10 for $y'' = f(x, y)$. *IMA*

Journal of Numerical Analysis, 2(1): 83–94, January 1982. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Hairer:2017:BSS

[1185] Ernst Hairer and Arieh Iserles. Banded, stable, skew-symmetric differentiation matrices of high order. *IMA Journal of Numerical Analysis*, 37(3):1087–1103, July 1, 2017. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `https://academic.oup.com/imajna/article/37/3/1087/2670025/Banded-stable-skew-symmetric-differentiation`.

Hairer:2014:EDI

[1186] Ernst Hairer and Christian Lubich. Energy-diminishing integration of gradient systems. *IMA Journal of Numerical Analysis*, 34(2):452–461, April 2014. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/34/2/452.full.pdf+html`.

Hairer:2013:CSS

[1187] Ernst Hairer and Christophe J. Zbinden. On conjugate symplecticity of B-series integrators. *IMA Journal of Numerical Analysis*, 33(1):57–79, January 2013. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/33/1/57.full.pdf+html`.

Hajian:2019:TVD

[1188] Soheil Hajian, Michael Hintermüller, and Stefan Ulbrich. Total variation diminishing schemes in optimal control of scalar conservation laws. *IMA Journal of Numerical Analysis*, 39(1): 105–140, January 25, 2019. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/39/1/105/4742250`.

Hale:2019:USM

[1189] Nicholas Hale. An ultraspherical spectral method for linear Fredholm and Volterra integro-differential equations of convolution type. *IMA Journal of Numerical Analysis*, 39(4):1727–1746, October 2019. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/39/4/1727/5053817`.

Hale:2016:FFB

[1190] Nicholas Hale and Alex Townsend. A fast FFT-based discrete Legendre transform. *IMA Journal of Numerical Analysis*, 36(4):1670–1684, October 2016. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/36/4/1670`.

Hall:1992:AMCb

[1191] C. A. Hall and T. A. Porsching. Approximation methods in the computer numerically controlled fabrication of optical surfaces. I. Finite-dimensional material removal profile spaces. *IMA Journal of Numerical Analysis*, 12(1): 67–84, 1992. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Hall:1992:AMCa

[1192] C. A. Hall and T. A. Porsching. Approximation methods in the computer numerically controlled fabrication of optical surfaces. II. Mollifications. *IMA Journal of Numerical Analysis*, 12(2):259–269, 1992. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Hall:1988:ASS

[1193] G. Hall and Desmond Higham. Analysis of stepsize selection schemes for Runge–Kutta codes. *IMA Journal of Numerical Analysis*, 8(3):305–310, 1988. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Hall:1981:SAT

[1194] G. Hall and M. B. Suleiman. Stability of Adams-type formulae for second-order ordinary differential equations. *IMA Journal of Numerical Analysis*, 1(4):427–438, 1981. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Halla:2023:ADE

[1195] Martin Halla. On the approximation of dispersive electromagnetic eigenvalue problems in two dimensions. *IMA Journal of Numerical Analysis*, 43 (1):535–559, January 2023. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/43/1/535/6485179`.

Hamfeldt:2024:RAF

[1196] Brittany Froese Hamfeldt and Axel G. R. Turnquist. On the reduction in accuracy of finite difference schemes on manifolds without boundary. *IMA Journal of Numerical Analysis*, 44 (3):1751–1784, May 2024. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/44/3/1751/7226184`.

Hammarling:1982:NSS

[1197] S. J. Hammarling. Numerical solution of the stable, nonnegative definite Lyapunov equation. *IMA Journal of Numerical Analysis*, 2(3):303–323, July 1982. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Han:1992:VPF

[1198] Wei Min Han. The p-version penalty finite element method. *IMA Journal of Numerical Analysis*, 12(1):47–56, 1992. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Han:2023:NSE

[1199] Weimin Han, Min Ling, and Fei Wang. Numerical solution of an H(curl)-elliptic hemivariational inequality. *IMA Journal of Numerical Analysis*, 43 (2):976–1000, March 2023. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/43/2/976/6550476`.

Han:2022:SAH

[1200] Yongbin Han and Yanren Hou. Semirobust analysis of an H(div)-conforming DG method with semi-implicit time-marching for the evolutionary incompressible Navier–Stokes equations. *IMA Journal of Numerical Analysis*, 42 (2):1568–1597, April 2022. CODEN IJNADH. ISSN 0272-4979 (print),

1464-3642 (electronic). URL http://academic.oup.com/imajna/article/42/2/1568/6133991.

Handscomb:1984:SRI

[1201] D. C. Handscomb. Spline representation of incompressible flow. *IMA Journal of Numerical Analysis*, 4(4): 491–502, October 1984. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Hansbo:2017:SFE

[1202] Peter Hansbo and Mats G. Larson. A stabilized finite element method for the Darcy problem on surfaces. *IMA Journal of Numerical Analysis*, 37(3): 1274–1299, July 1, 2017. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL https://academic.oup.com/imajna/article/37/3/1274/2670035/A-stabilized-finite-element-method-for-the-Darcy.

Hansbo:2020:AFE

[1203] Peter Hansbo, Mats G. Larson, and Karl Larsson. Analysis of finite element methods for vector Laplacians on surfaces. *IMA Journal of Numerical Analysis*, 40(3):1652–1701, July 2020. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/40/3/1652/5435894.

Hansen:2017:ADD

[1204] Eskil Hansen and Erik Henningsson. Additive domain decomposition operator splittings-convergence analyses in a dissipative framework. *IMA Journal of Numerical Analysis*, 37(3):1496–1519, July 1, 2017. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL https://academic.oup.com/imajna/article/37/3/1496/2670039/Additive-domain-decomposition-operator-splittings.

Hansen:2010:DSQ

[1205] Eskil Hansen and Alexander Ostermann. Dimension splitting for quasilinear parabolic equations. *IMA Journal of Numerical Analysis*, 30(3):857–869, July 2010. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/cgi/content/abstract/30/3/857; http://imajna.oxfordjournals.org/cgi/reprint/30/3/857.

Hansen:2002:SCM

[1206] Olaf Hansen. On the stability of the Collocation method for the Radiosity equation on polyhedral domains. *IMA Journal of Numerical Analysis*, 22(3):463–479, July 2002. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_22/Issue_03/220463.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_22/Issue_03/pdf/220463.pdf.

Hansen:2009:NHO

[1207] Olaf Hansen, Kendall Atkinson, and David Chien. On the norm of the hyperinterpolation operator on the unit disc and its use for the solution of the nonlinear Poisson equation. *IMA Journal of Numerical Analysis*, 29(2):257–283, April 2009. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/cgi/content/abstract/29/2/257; http://imajna.

oxfordjournals.org/cgi/reprint/29/2/257.

Haque:1987:CSO

[1208] S. Haque. Convergence of the successive overrelaxation method. *IMA Journal of Numerical Analysis*, 7(3):307–311, 1987. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Harder:2022:EEC

[1209] Paula Harder and Balázs Kovács. Error estimates for the Cahn–Hilliard equation with dynamic boundary conditions. *IMA Journal of Numerical Analysis*, 42(3):2589–2620, July 2022. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/42/3/2589/6307444.

Hardering:2023:TET

[1210] Hanne Hardering and Simon Praetorius. Tangential errors of tensor surface finite elements. *IMA Journal of Numerical Analysis*, 43(3):1543–1585, May 2023. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/43/3/1543/6586271.

Hardering:2022:QCC

[1211] Hanne Hardering and Benedikt Wirth. Quartic L^p-convergence of cubic Riemannian splines. *IMA Journal of Numerical Analysis*, 42(4):3360–3385, October 2022. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/42/4/3360/6412939.

Hare:2022:EBO

[1212] Warren Hare, Gabriel Jarry-Bolduc, and Chayne Planiden. Error bounds for overdetermined and underdetermined generalized centred simplex gradients. *IMA Journal of Numerical Analysis*, 42(1):744–770, January 2022. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/42/1/744/6029096.

Hare:2024:MAA

[1213] Warren Hare, Gabriel Jarry-Bolduc, and Chayne Planiden. A matrix algebra approach to approximate Hessians. *IMA Journal of Numerical Analysis*, 44(4):2220–2250, July 2024. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/44/4/2220/7232487.

Harrach:2023:RLI

[1214] Bastian Harrach, Tim Jahn, and Roland Potthast. Regularizing linear inverse problems under unknown non-Gaussian white noise allowing repeated measurements. *IMA Journal of Numerical Analysis*, 43(1):443–500, January 2023. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/43/1/443/6512076.

Haut:2016:HOT

[1215] T. S. Haut, T. Babb, P. G. Martinsson, and B. A. Wingate. A high-order time-parallel scheme for solving wave propagation problems via the direct construction of an approximate time-evolution operator. *IMA Journal of Numerical Analysis*, 36(2):688–716, April 2016. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/36/2/688`.

He:2020:OPA

[1216] Bingsheng He, Feng Ma, and Xiaoming Yuan. Optimal proximal augmented Lagrangian method and its application to full Jacobian splitting for multi-block separable convex minimization problems. *IMA Journal of Numerical Analysis*, 40(2):1188–1216, April 2020. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/40/2/1188/5272537`.

He:2015:SMS

[1217] Bingsheng He, Min Tao, and Xiaoming Yuan. A splitting method for separable convex programming. *IMA Journal of Numerical Analysis*, 35(1):394–426, January 2015. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/35/1/394`.

He:1997:ACN

[1218] Chunyang He and G. A. Watson. An algorithm for computing the numerical radius. *IMA Journal of Numerical Analysis*, 17(3):329–342, July 1997. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://www3.oup.co.uk/imanum/hdb/Volume_17/Issue_03/170329.sgm.abs.html`.

He:2003:FDS

[1219] Journal Yinnian He. A fully discrete stabilized finite-element method for the time-dependent Navier–Stokes problem. *IMA Journal of Numerical Analysis*, 23(4):665–691, October 2003. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://www3.oup.co.uk/imanum/hdb/Volume_23/Issue_04/230665.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_23/Issue_04/pdf/230665.pdf`.

He:2015:UCE

[1220] Yinnian He. Unconditional convergence of the Euler semi-implicit scheme for the three-dimensional incompressible MHD equations. *IMA Journal of Numerical Analysis*, 35(2):767–801, April 2015. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/35/2/767`.

Heeren:2019:VTD

[1221] Behrend Heeren, Martin Rumpf, and Benedikt Wirth. Variational time discretization of Riemannian splines. *IMA Journal of Numerical Analysis*, 39(1):61–104, January 25, 2019. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/39/1/61/4808587`.

Hegland:1998:WAP

[1222] Markus Hegland and Michael R. Osborne. Wrap-around partitioning for block bidiagonal linear systems. *IMA Journal of Numerical Analysis*, 18(3):

373–383, July 1998. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_18/Issue_03/180373.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_18/Issue_03/pdf/180373.pdf.

Heine:2006:CFS

[1223] Claus-Justus Heine. Computations of form and stability of rotating drops with finite elements. *IMA Journal of Numerical Analysis*, 26(4):723–751, October 2006. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/cgi/content/abstract/26/4/723; http://imajna.oxfordjournals.org/cgi/reprint/26/4/723.

Heinrich:2003:NMF

[1224] B. Heinrich and S. Nicaise. The Nitsche mortar finite-element method for transmission problems with singularities. *IMA Journal of Numerical Analysis*, 23(2):331–358, April 2003. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_23/Issue_02/230331.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_23/Issue_02/pdf/230331.pdf.

Heinrich:2006:FFE

[1225] Bernd Heinrich and Beate Jung. The Fourier-finite-element method with Nitsche mortaring. *IMA Journal of Numerical Analysis*, 26(3):541–562, July 2006. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://comjnl.oxfordjournals.org/cgi/content/abstract/26/3/541; http://comjnl.oxfordjournals.org/cgi/reprint/26/3/541.

Hell:2015:MDS

[1226] Tobias Hell, Alexander Ostermann, and Michael Sandbichler. Modification of dimension-splitting methods-overcoming the order reduction due to corner singularities. *IMA Journal of Numerical Analysis*, 35(3):1078–1091, July 2015. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/35/3/1078.

Helou:2023:SOC

[1227] Elias S. Helou, Sandra A. Santos, and Lucas E. A. Simões. A sequential optimality condition for Mathematical Programs with equilibrium constraints based on a nonsmooth formulation. *IMA Journal of Numerical Analysis*, 43(3):1586–1615, May 2023. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/43/3/1586/6586009.

Hemker:2000:USH

[1228] P. W. Hemker, G. I. Shishkin, and L. P. Shishkina. ϵ-uniform schemes with high-order time-accuracy for parabolic singular perturbation problems. *IMA Journal of Numerical Analysis*, 20(1):99–121, January 2000. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_20/Issue_01/200099.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_20/Issue_01/pdf/200099.pdf.

Henke:2014:BCS

[1229] Christian Henke and Lutz Angermann. $L^\infty(L^\infty)$-boundedness and convergence of DG(p) solutions for nonlinear conservation laws with boundary conditions. *IMA Journal of Numerical Analysis*, 34(4):1598–1624, October 2014. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/34/4/1598. See erratum [1230].

Henke:2015:EPB

[1230] Christian Henke and Lutz Angermann. Erratum to the paper "$L^\infty(L^\infty)$-boundedness and convergence of DG(p)-solutions for nonlinear conservation laws with boundary conditions". *IMA Journal of Numerical Analysis*, 35(3):1483–1485, July 2015. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/35/3/1483. See [1229].

Herbin:2023:CQS

[1231] Raphaèle Herbin, Jean-Claude Latché, Youssouf Nasseri, and Nicolas Therme. A consistent quasi-second-order staggered scheme for the two-dimensional shallow water equations. *IMA Journal of Numerical Analysis*, 43(1):99–143, January 2023. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/43/1/99/6463328.

Herbin:2020:CCP

[1232] Raphaèle Herbin, Jean-Claude Latché, and Chady Zaza. A cell-centred pressure-correction scheme for the compressible Euler equations. *IMA Journal of Numerical Analysis*, 40(3):1792–1837, July 2020. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/40/3/1792/5513045.

Herbin:2001:FVA

[1233] Raphaèle Herbin and Emmanuelle Marchand. Finite volume approximation of a class of variational inequalities. *IMA Journal of Numerical Analysis*, 21(2):553–585, April 2001. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_21/Issue_02/210553.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_21/Issue_02/pdf/210553.pdf.

Herbst:1981:CEE

[1234] B. M. Herbst and J. F. Botha. Computable error estimates for the collocation method applied to two-point boundary value problems. *IMA Journal of Numerical Analysis*, 1(4):489–497, 1981. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Hernandez:2009:AVM

[1235] Erwin Hernández, Enrique Otárola, Rodolfo Rodríguez, and Frank Sanhueza. Approximation of the vibration modes of a Timoshenko curved rod of arbitrary geometry. *IMA Journal of Numerical Analysis*, 29(1):180–207, January 2009. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Herr:2017:TTI

[1236] Sebastian Herr and Katharina Schratz. Trigonometric time integrators for the Zakharov system. *IMA Journal of Numerical Analysis*, 37(4):2042–2066, October 1, 2017. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL https://academic.oup.com/imajna/article/37/4/2042/2670310.

Herremans:2025:EFA

[1237] Astrid Herremans and Daan Huybrechs. Efficient function approximation in enriched approximation spaces. *IMA Journal of Numerical Analysis*, 45(2):673–695, March 2025. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/45/2/673/7668415.

Herty:2024:MAS

[1238] M. Herty, A. Kolb, and S. Müller. Multiresolution analysis for stochastic hyperbolic conservation laws. *IMA Journal of Numerical Analysis*, 44(1):536–575, January 2024. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/44/1/536/7080301.

Heuer:2001:ASM

[1239] Norbert Heuer and Ernst P. Stephan. An additive Schwarz method for the h–p version of the boundary element method for hypersingular integral equations in $\Re$. *IMA Journal of Numerical Analysis*, 21(1):265–283, January 2001. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_21/Issue_01/210265abs.pdf; http://www3.oup.co.uk/imanum/hdb/Volume_21/Issue_01/pdf/210265.pdf.

Hewett:2015:FIB

[1240] D. P. Hewett, S. Langdon, and S. N. Chandler-Wilde. A frequency-independent boundary element method for scattering by two-dimensional screens and apertures. *IMA Journal of Numerical Analysis*, 35(4):1698–1728, October 2015. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/35/4/1698.

Higham:1989:AEK

[1241] Desmond J. Higham. Analysis of the Enright–Kamel partitioning method for stiff ordinary differential equations. *IMA Journal of Numerical Analysis*, 9(1):1–14, 1989. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Higham:1991:GEV

[1242] Desmond J. Higham. Global error versus tolerance for explicit Runge–Kutta methods. *IMA Journal of Numerical Analysis*, 11(4):457–480, 1991. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Higham:2005:SRR

[1243] Desmond J. Higham. Spectral reordering of a range-dependent weighted random graph. *IMA Journal of Numerical Analysis*, 25(3):443–457, July 2005. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imanum.

oxfordjournals.org/cgi/content/abstract/25/3/443; http://imanum.oxfordjournals.org/cgi/reprint/25/3/443.

Higham:1988:FSV

[1244] Nicholas J. Higham. Fast solution of Vandermonde-like systems involving orthogonal polynomials. *IMA Journal of Numerical Analysis*, 8(4): 473–486, October 1988. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Higham:1997:IRL

[1245] Nicholas J. Higham. Iterative refinement for linear systems and LAPACK. *IMA Journal of Numerical Analysis*, 17(4):495–509, October 1997. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_17/Issue_04/170495.sgm.abs.html. Preprint published as Numerical Analysis Report 277, Manchester Centre for Computational Mathematics, Manchester, England, and as LAPACK Working Note 104.

Higham:2002:CNC

[1246] Nicholas J. Higham. Computing the nearest correlation matrix—a problem from finance. *IMA Journal of Numerical Analysis*, 22(3):329–343, July 2002. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_22/Issue_03/220329.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_22/Issue_03/pdf/220329.pdf.

Higham:2004:NSB

[1247] Nicholas J. Higham. The numerical stability of barycentric Lagrange interpolation. *IMA Journal of Numerical Analysis*, 24(4):547–556, October 2004. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imanum.oupjournals.org/cgi/content/abstract/24/4/547; http://imanum.oupjournals.org/cgi/reprint/24/4/547.

Higham:2000:NAQ

[1248] Nicholas J. Higham and Hyun-Min Kim. Numerical analysis of a quadratic matrix equation. *IMA Journal of Numerical Analysis*, 20(4):499–519, October 2000. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_20/Issue_04/200499abs.pdf; http://www3.oup.co.uk/imanum/hdb/Volume_20/Issue_04/pdf/200499.pdf.

Higham:2022:SBL

[1249] Nicholas J. Higham and Theo Mary. Solving block low-rank linear systems by *LU* factorization is numerically stable. *IMA Journal of Numerical Analysis*, 42(2):951–980, April 2022. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/42/2/951/6238550.

Hill:1996:SCD

[1250] A. T. Hill and E. Süli. Set convergence for discretizations of the attractor. *IMA Journal of Numerical Analysis*, 16 (2):289–296, April 1996. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.

oup.co.uk/imanum/hdb/Volume_16/Issue_02/160289.sgm.abs.html.

Hill:2005:MAL

[1251] Adrian T. Hill. Multistep approximation of linear sectorial evolution equations. *IMA Journal of Numerical Analysis*, 25(1):45–56, January 2005. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imanum.oupjournals.org/cgi/content/abstract/25/1/45; http://imanum.oupjournals.org/cgi/reprint/25/1/45.

Hill:2011:EST

[1252] Adrian T. Hill and Achim Ilchmann. Exponential stability of time-varying linear systems. *IMA Journal of Numerical Analysis*, 31(3):865–885, July 2011. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/31/3/865.full.pdf+html.

Hill:2000:AGA

[1253] Adrian T. Hill and Endre Suli. Approximation of the global attractor for the incompressible Navier–Stokes equations. *IMA Journal of Numerical Analysis*, 20(4):633–667, October 2000. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_20/Issue_04/200633abs.pdf; http://www3.oup.co.uk/imanum/hdb/Volume_20/Issue_04/pdf/200633.pdf.

Hill:1986:NDF

[1254] M. G. Hill and D. Porter. The numerical determination of fundamental solutions of elliptic equations. *IMA Journal of Numerical Analysis*, 6(4):405–420, 1986. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Hipp:2019:UEA

[1255] David Hipp, Marlis Hochbruck, and Christian Stohrer. Unified error analysis for nonconforming space discretizations of wave-type equations. *IMA Journal of Numerical Analysis*, 39(3):1206–1245, July 2019. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/39/3/1206/5055760.

Hipp:2021:FEE

[1256] David Hipp and Balázs Kovács. Finite element error analysis of wave equations with dynamic boundary conditions: L^2 estimates. *IMA Journal of Numerical Analysis*, 41(1):638–728, January 2021. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/41/1/638/5818995.

Hirn:2012:FEA

[1257] Adrian Hirn, Martin Lanzendörfer, and Jan Stebel. Finite element approximation of flow of fluids with shear-rate- and pressure-dependent viscosity. *IMA Journal of Numerical Analysis*, 32(4):1604–1634, October 2012. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/32/4/1604.full.pdf+html.

Hochbruck:2022:EAS

[1258] Marlis Hochbruck and Bernhard Maier. Error analysis for space discretizations of quasilinear wave-type equations. *IMA Journal of Numerical Analysis*, 42(3):1963–1990, July 2022. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/42/3/1963/6411793`.

Hochmuth:2001:LBE

[1259] Reinhard Hochmuth. A localized boundary element method for the floating body problem. *IMA Journal of Numerical Analysis*, 21(4):799–816, October 2001. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://www3.oup.co.uk/imanum/hdb/Volume_21/Issue_04/210799.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_21/Issue_04/pdf/210799.pdf`.

Hocking:2012:CFM

[1260] L. Robert Hocking and Chen Greif. Closed-form multigrid smoothing factors for lexicographic Gauss–Seidel. *IMA Journal of Numerical Analysis*, 32(3):795–812, July 2012. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/32/3/795.full.pdf+html`.

Hoel:2024:HOA

[1261] Håkon Hoel and Sankarasubramanian Ragunathan. Higher-order adaptive methods for exit times of Itô diffusions. *IMA Journal of Numerical Analysis*, 44(5):2821–2863, September 2024. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/44/5/2821/7320265`.

Hoffmann:1996:PSV

[1262] K.-H. Hoffmann and Jun Zou. Parallel solution of variational inequality problems with nonlinear source terms. *IMA Journal of Numerical Analysis*, 16(1):31–45, January 1996. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://www3.oup.co.uk/imanum/hdb/Volume_16/Issue_01/160031.sgm.abs.html`.

Hofmanova:2020:REI

[1263] Martina Hofmanová, Marvin Knöller, and Katharina Schratz. Randomized exponential integrators for modulated nonlinear Schrödinger equations. *IMA Journal of Numerical Analysis*, 40(4):2143–2162, October 2020. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/40/4/2143/5694616`.

Hofreither:2022:LMS

[1264] Clemens Hofreither, Ludwig Mitter, and Hendrik Speleers. Local multigrid solvers for adaptive isogeometric analysis in hierarchical spline spaces. *IMA Journal of Numerical Analysis*, 42(3):2429–2458, July 2022. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/42/3/2429/6295139`.

Holden:2009:CFD

[1265] H. Holden, K. H. Karlsen, and N. H. Risebro. A convergent finite-difference method for a nonlinear variational wave equation. *IMA Journal of Numerical Analysis*, 29(3):539–572, July 2009. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/cgi/content/abstract/29/3/539; http://imajna.oxfordjournals.org/cgi/reprint/29/3/539`.

Holden:2015:CFD

[1266] Helge Holden, Ujjwal Koley, and Nils Henrik Risebro. Convergence of a fully discrete finite difference scheme for the Korteweg–de Vries equation. *IMA Journal of Numerical Analysis*, 35(3):1047–1077, July 2015. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/35/3/1047`.

Hong:2021:ORC

[1267] Jialin Hong, Chuying Huang, and Xu Wang. Optimal rate of convergence for two classes of schemes to stochastic differential equations driven by fractional Brownian motions. *IMA Journal of Numerical Analysis*, 41 (2):1608–1638, April 2021. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/41/2/1608/5874556`.

Hong:2023:SSI

[1268] Jialin Hong, Derui Sheng, and Tau Zhou. A splitting semi-implicit Euler method for stochastic incompressible Euler equations on T^2. *IMA Journal of Numerical Analysis*, 43(5): 2748–2776, September 2023. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/43/5/2748/6759611`.

Hopkins:1989:NEC

[1269] H. H. Hopkins. Numerical evaluation of a class of double integrals of oscillatory functions. *IMA Journal of Numerical Analysis*, 9(1):61–80, 1989. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Hoppe:1993:GCM

[1270] Ronald H. W. Hoppe. A globally convergent multi-grid algorithm for moving boundary problems of two-phase Stefan type. *IMA Journal of Numerical Analysis*, 13(2):235–253, 1993. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Hosea:1993:GEI

[1271] M. E. Hosea and L. F. Shampine. Global extrapolation integrators for solving Sturm–Liouville problems by shooting. *IMA Journal of Numerical Analysis*, 13(3):397–411, 1993. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Hosek:2019:CNM

[1272] Radim Hosek and Bangwei She. Convergent numerical method for the Navier–Stokes–Fourier system: a stabilized scheme. *IMA Journal of Numerical Analysis*, 39(4):2045–2068, October 2019. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/39/4/2045/5075403`.

Houbak:1985:DRT

[1273] Niels Houbak, Syvert P. Nørsett, and Per Grove Thomsen. Displacement or residual test in the application of implicit methods for stiff problems. *IMA Journal of Numerical Analysis*, 5(3):297–305, 1985. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Hough:1981:EFC

[1274] D. M. Hough. Exact formulae for certain integrals arising in potential theory. *IMA Journal of Numerical Analysis*, 1(2):223–228, 1981. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Houston:2007:PEI

[1275] Paul Houston, Ilaria Perugia, and Dominik Schötzau. An a posteriori error indicator for discontinuous Galerkin discretizations of H (curl)-elliptic partial differential equations. *IMA Journal of Numerical Analysis*, 27(1):122–150, January 2007. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/cgi/content/abstract/27/1/122`; `http://imajna.oxfordjournals.org/cgi/reprint/27/1/122`.

Houston:2005:DGF

[1276] Paul Houston, Janice Robson, and Endre Süli. Discontinuous Galerkin finite element approximation of quasilinear elliptic boundary value problems. I: the scalar case. *IMA Journal of Numerical Analysis*, 25(4):726–749, October 2005. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imanum.oxfordjournals.org/cgi/reprint/25/4/726`.

Houston:2008:PEA

[1277] Paul Houston, Endre Süli, and Thomas P. Wihler. A posteriori error analysis of *hp* version discontinuous Galerkin finite-element methods for second-order quasi-linear elliptic PDEs. *IMA Journal of Numerical Analysis*, 28(2):245–273, April 2008. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/cgi/content/abstract/28/2/245`; `http://imajna.oxfordjournals.org/cgi/reprint/28/2/245`.

Houston:2012:SOE

[1278] Paul Houston and Thomas P. Wihler. Second-order elliptic PDEs with discontinuous boundary data. *IMA Journal of Numerical Analysis*, 32(1):48–74, January 2012. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/32/1/48.full.pdf+html`.

Hovhannisyan:2010:SFA

[1279] Nune Hovhannisyan and Siegfried Müller. On the stability of fully adaptive multiscale schemes for conservation laws using approximate flux and source reconstruction strategies. *IMA Journal of Numerical Analysis*, 30(4):1256–1295, October 2010. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/30/4/1256.full.pdf+html`.

Hrycak:2020:ELP

[1280] Tomasz Hrycak and Sebastian Schmutzhard. Evaluation of Legendre polynomials by a three-term recurrence in floating-point arithmetic. *IMA Journal of Numerical Analysis*, 40(1):587–605, January 2020. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/40/1/587/5162990.

Hsiao:2017:BCB

[1281] George C. Hsiao, Tonatiuh Sánchez-Vizuet, and Francisco-Javier Sayas. Boundary and coupled boundary-finite element methods for transient wave-structure interaction. *IMA Journal of Numerical Analysis*, 37(1):237–265, January 1, 2017. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL https://academic.oup.com/imajna/article/37/1/237/2669945/Boundary-and-coupled-boundary-finite-element.

Hsiao:2019:TDW

[1282] George C. Hsiao, Tonatiuh Sánchez-Vizuet, Francisco-Javier Sayas, and Richard J. Weinacht. A time-dependent wave-thermoelastic solid interaction. *IMA Journal of Numerical Analysis*, 39(2):924–956, April 2019. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/39/2/924/4964961.

Hu:1999:SRK

[1283] Guang-Da Hu, Guang-Di Hu, and S. A. Meguid. Stability of Runge–Kutta methods for delay differential systems with multiple delays. *IMA Journal of Numerical Analysis*, 19(3):349–356, July 1999. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_19/Issue_03/190349.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_19/Issue_03/pdf/190349.pdf.

Hu:2023:PPE

[1284] Jingwei Hu and Xiangxiong Zhang. Positivity-preserving and energy-dissipative finite difference schemes for the Fokker–Planck and Keller–Segel equations. *IMA Journal of Numerical Analysis*, 43(3):1450–1484, May 2023. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/43/3/1450/6585764.

Hu:2019:TLO

[1285] Jun Hu and Mira Schedensack. Two low-order nonconforming finite element methods for the Stokes flow in three dimensions. *IMA Journal of Numerical Analysis*, 39(3):1447–1470, July 2019. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/39/3/1447/4975386.

Hu:2023:SSH

[1286] Kaibo Hu, Qian Zhang, Jiayu Han, Lixiu Wang, and Zhimin Zhang. Spurious solutions for high-order curl problems. *IMA Journal of Numerical Analysis*, 43(3):1422–1449, May 2023. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/43/3/1422/6618076.

Hu:1998:GMT

[1287] Qiya Hu. Geometric meshes and their application to Volterra integro-differential equations with singularities. *IMA Journal of Numerical Analysis*, 18(1):151–164, January 1998. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_18/Issue_01/180151.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_18/Issue_01/pdf/180151.pdf.

Hu:2004:PPS

[1288] Qiya Hu. Preconditioning Poincaré–Steklov operators arising from domain decompositions with mortar multipliers. *IMA Journal of Numerical Analysis*, 24(4):643–669, October 2004. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imanum.oupjournals.org/cgi/content/abstract/24/4/643; http://imanum.oupjournals.org/cgi/reprint/24/4/643.

Hu:2024:CDA

[1289] Xiaoyin Hu, Nachuan Xiao, Xin Liu, and Kim-Chuan Toh. A constraint dissolving approach for nonsmooth optimization over the Stiefel manifold. *IMA Journal of Numerical Analysis*, 44(6):3717–3748, November 2024. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/44/6/3717/7490879.

Hu:1993:ADR

[1290] Yingkang Hu. An algorithm for data reduction using splines with free knots. *IMA Journal of Numerical Analysis*, 13(3):365–381, 1993. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Huang:1981:CAO

[1291] C. P. Huang. On the convergence of the QR algorithm with origin shifts for normal matrices. *IMA Journal of Numerical Analysis*, 1(1):127–133, 1981. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Huang:2010:CFF

[1292] C.-S. Huang, C.-H. Hung, and Song Wang. On convergence of a fitted finite-volume method for the valuation of options on assets with stochastic volatilities. *IMA Journal of Numerical Analysis*, 30(4):1101–1120, October 2010. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/30/4/1101.full.pdf+html.

Huang:2020:NAN

[1293] Can Huang, Kim Ngan Le, and Martin Stynes. A new analysis of a numerical method for the time-fractional Fokker–Planck equation with general forcing. *IMA Journal of Numerical Analysis*, 40(2):1217–1240, April 2020. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/40/2/1217/5316762.

Huang:2017:SGM

[1294] Can Huang and Martin Stynes. Spectral Galerkin methods for a weakly singular Volterra integral equation of the second kind. *IMA Journal* of *Numerical Analysis*, 37(3):1411–1436, July 1, 2017. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL https://academic.oup.com/imajna/article/37/3/1411/2670015/Spectral-Galerkin-methods-for-a-weakly-singular.

Huang:2000:DRK

[1295] Chengming Huang. Dissipativity of Runge–Kutta methods for dynamical systems with delays. *IMA Journal of Numerical Analysis*, 20(1):153–166, January 2000. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_20/Issue_01/200153.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_20/Issue_01/pdf/200153.pdf.

Huang:2009:SAG

[1296] Chengming Huang. Stability analysis of general linear methods for the nonautonomous pantograph equation. *IMA Journal of Numerical Analysis*, 29(2):444–465, April 2009. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/cgi/content/abstract/29/2/444; http://imajna.oxfordjournals.org/cgi/reprint/29/2/444.

Huang:1999:CAI

[1297] Huaxiong Huang and Zhilin Li. Convergence analysis of the immersed interface method. *IMA Journal of Numerical Analysis*, 19(4):583–608, October 1999. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_19/Issue_04/190583.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_19/Issue_04/pdf/190583.pdf.

Huang:2002:MEM

[1298] Jianguo Huang and Jun Zou. A mortar element method for elliptic problems with discontinuous coefficients. *IMA Journal of Numerical Analysis*, 22(4):549–576, October 2002. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_22/Issue_04/220549.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_22/Issue_04/pdf/220549.pdf.

Huang:1993:NPM

[1299] Weizhang Huang and David M. Sloan. A new pseudospectral method with upwind features. *IMA Journal of Numerical Analysis*, 13(3):413–430, 1993. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Huang:2012:APM

[1300] Y. Huang and P. A. Forsyth. Analysis of a penalty method for pricing a guaranteed minimum withdrawal benefit (GMWB). *IMA Journal of Numerical Analysis*, 32(1):320–351, January 2012. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/32/1/320.full.pdf+html.

Huang:2005:GLL

[1301] Zheng-Hai Huang. The global linear and local quadratic convergence of a non-interior continuation algorithm for the LCP. *IMA Journal* *of Numerical Analysis*, 25(4):670–684, October 2005. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imanum.oxfordjournals.org/cgi/reprint/25/4/670.

Huhtanen:2010:RAU

[1302] Marko Huhtanen. Rational approximation of the unitary exponential. *IMA Journal of Numerical Analysis*, 30(2):512–524, April 2010. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/cgi/content/abstract/30/2/512; http://imajna.oxfordjournals.org/cgi/reprint/30/2/512.

Humphries:1993:SSN

[1303] A. R. Humphries. Spurious solutions of numerical methods for initial value problems. *IMA Journal of Numerical Analysis*, 13(2):263–290, 1993. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Hundsdorfer:1994:EGL

[1304] Willem Hundsdorfer. On the error of general linear methods for stiff dissipative differential equations. *IMA Journal of Numerical Analysis*, 14(3):363–379, 1994. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Hundsdorfer:2004:NFL

[1305] Willem Hundsdorfer and Carolynne Montijn. A note on flux limiting for diffusion discretizations. *IMA Journal of Numerical Analysis*, 24(4):635–642, October 2004. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imanum.oupjournals.org/cgi/content/abstract/24/4/635; http://imanum.oupjournals.org/cgi/reprint/24/4/635.

Huning:2022:CAS

[1306] Svenja Hüning and Johannes Wallner. Convergence analysis of subdivision processes on the sphere. *IMA Journal of Numerical Analysis*, 42(1):698–711, January 2022. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/42/1/698/6044444.

Huybrechs:2011:HORa

[1307] Daan Huybrechs, Arieh Iserles, and Syvert P. Nørsett. From high oscillation to rapid approximation IV: accelerating convergence. *IMA Journal of Numerical Analysis*, 31(2):442–468, April 2011. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/31/2/442.full.pdf+html.

Huybrechs:2011:HORb

[1308] Daan Huybrechs, Arieh Iserles, and Syvert P. Nørsett. From high oscillation to rapid approximation V: the equilateral triangle. *IMA Journal of Numerical Analysis*, 31(3):755–785, July 2011. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/31/3/755.full.pdf+html.

Huybrechs:2018:CIA

[1309] Daan Huybrechs and Peter Opsomer. Construction and implementation of asymptotic expansions for Laguerre-type orthogonal polynomials. *IMA Journal of Numerical Analysis*, 38(3): 1085–1118, July 17, 2018. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/38/3/1085/4056070.

Hyvonen:1998:PAP

[1310] Saara Hyvönen. Polynomial acceleration of the Picard–Lindelöf iteration. *IMA Journal of Numerical Analysis*, 18(4):519–543, October 1998. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_18/Issue_04/180519.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_18/Issue_04/pdf/180519.pdf.

Iannazzo:2018:RBB

[1311] Bruno Iannazzo and Margherita Porcelli. The Riemannian Barzilai–Borwein method with nonmonotone line search and the matrix geometric mean computation. *IMA Journal of Numerical Analysis*, 38(1):495–517, January 25, 2018. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/38/1/495/3573895.

Ibdah:2020:FDN

[1312] Hussain A. Ibdah, Cecilia F. Mondaini, and Edriss S. Titi. Fully discrete numerical schemes of a data assimilation algorithm: uniform-in-time error estimates. *IMA Journal of Numerical Analysis*, 40(4):2584–2625, October 2020. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/40/4/2584/5618687.

Igbida:2018:ALM

[1313] Noureddine Igbida and Van Thanh Nguyen. Augmented Lagrangian method for optimal partial transportation. *IMA Journal of Numerical Analysis*, 38(1):156–183, January 25, 2018. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/38/1/156/3061343.

Iguchi:2021:SOD

[1314] Yuga Iguchi and Toshihiro Yamada. A second-order discretization for degenerate systems of stochastic differential equations. *IMA Journal of Numerical Analysis*, 41(4):2782–2829, October 2021. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/41/4/2782/5880430.

Ilic:2010:RLA

[1315] M. Ilić, I. W. Turner, and D. P. Simpson. A restarted Lanczos approximation to functions of a symmetric matrix. *IMA Journal of Numerical Analysis*, 30(4):1044–1061, October 2010. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/30/4/1044.full.pdf+html.

Iliev:2002:SOA

[1316] Oleg P. Iliev. On second-order-accurate discretization of 3D interface problems and its fast solution with a pointwise multigrid solver. *IMA Journal of Numerical Analysis*, 22(3): 391–406, July 2002. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_22/Issue_03/220391.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_22/Issue_03/pdf/220391.pdf.

Imbert-Gerard:2014:GPW

[1317] Lise-Marie Imbert-Gérard and Bruno Després. A generalized plane-wave numerical method for smooth non-constant coefficients. *IMA Journal of Numerical Analysis*, 34(3):1072–1103, July 2014. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/34/3/1072.

intHout:1997:SAR

[1318] K. J. in 't Hout. Stability analysis of Runge–Kutta methods for systems of delay differential equations. *IMA Journal of Numerical Analysis*, 17(1): 17–27, January 1997. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_17/Issue_01/170017.sgm.abs.html.

intHout:2014:SCA

[1319] K. J. in 't Hout and K. Volders. Stability and convergence analysis of discretizations of the Black–Scholes PDE with the linear boundary condition. *IMA Journal of Numerical Analysis*, 34(1):296–325, January 2014. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/34/1/296.full.pdf+html.

Ingham:1981:BIE

[1320] D. B. Ingham, P. J. Heggs, and M. Manzoor. Boundary integral equation solution of nonlinear plane potential problems. *IMA Journal of Numerical Analysis*, 1(4):415–426, 1981. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Iserles:1986:GLM

[1321] A. Iserles. Generalized leapfrog methods. *IMA Journal of Numerical Analysis*, 6(4):381–392, 1986. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Iserles:1986:MDL

[1322] A. Iserles. Multistep discretization of linear hyperbolic equations. *IMA Journal of Numerical Analysis*, 6(3):293–307, 1986. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Iserles:1990:SDN

[1323] A. Iserles. Stability and dynamics of numerical methods for nonlinear ordinary differential equations. *IMA Journal of Numerical Analysis*, 10(1): 1–30, January 1990. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Iserles:1991:CDC

[1324] A. Iserles. Complex dynamics of convergence acceleration. *IMA Journal *of Numerical Analysis*, 11(2):205–240, 1991. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Iserles:1990:TPR

[1325] A. Iserles and S. P. Nørsett. On the theory of parallel Runge–Kutta methods. *IMA Journal of Numerical Analysis*, 10(4):463–488, 1990. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Iserles:1981:ARA

[1326] A. Iserles and M. J. D. Powell. On the A-acceptability of rational approximations that interpolate the exponential function. *IMA Journal of Numerical Analysis*, 1(3):241–251, July 1981. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Iserles:1992:ZHD

[1327] A. Iserles, E. B. Saff, and Xiao Yan Liu. On zeros of Hankel determinants with iterated polynomial entries. *IMA Journal of Numerical Analysis*, 12(3):387–403, 1992. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). IMA Conference on Dynamics of Numerics and Numerics of Dynamics (Bristol, 1990).

Iserles:1992:UAS

[1328] A. Iserles and A. M. Stuart. Unified approach to spurious solutions introduced by time discretization. II. BDF-like methods. *IMA Journal of Numerical Analysis*, 12(4):487–502, 1992. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Iserles:1984:SAS

[1329] A. Iserles and R. A. Williamson. Stability and accuracy of semidiscretized finite difference methods. *IMA Journal of Numerical Analysis*, 4(3):289–307, July 1984. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Iserles:1982:OSS

[1330] Arieh Iserles. Order stars and a saturation theorem for first-order hyperbolics. *IMA Journal of Numerical Analysis*, 2(1):49–61, January 1982. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Iserles:2001:MMM

[1331] Arieh Iserles. Multistep methods on manifolds. *IMA Journal of Numerical Analysis*, 21(1):407–419, January 2001. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://www3.oup.co.uk/imanum/hdb/Volume_21/Issue_01/210407.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_21/Issue_01/pdf/210407.pdf`.

Iserles:2004:NQH

[1332] Arieh Iserles. On the numerical quadrature of highly-oscillating integrals. I: Fourier transforms. *IMA Journal of Numerical Analysis*, 24(3):365–391, July 2004. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://www3.oup.co.uk/imanum/hdb/Volume_24/Issue_03/240365.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_24/Issue_03/pdf/240365.pdf`.

Iserles:2005:NQH

[1333] Arieh Iserles. On the numerical quadrature of highly-oscillating integrals II: Irregular oscillators. *IMA Journal of Numerical Analysis*, 25(1):25–44, January 2005. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imanum.oupjournals.org/cgi/content/abstract/25/1/25; http://imanum.oupjournals.org/cgi/reprint/25/1/25.

Iserles:2014:SSD

[1334] Arieh Iserles. On skew-symmetric differentiation matrices. *IMA Journal of Numerical Analysis*, 34(2):435–451, April 2014. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/34/2/435.full.pdf+html.

Iserles:2008:HOR

[1335] Arieh Iserles and Syvert P. Nørsett. From high oscillation to rapid approximation I: Modified Fourier expansions. *IMA Journal of Numerical Analysis*, 28(4):862–887, October 2008. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/cgi/content/abstract/28/4/862.

Iserles:2009:HOR

[1336] Arieh Iserles and Syvert P. Nørsett. From high oscillation to rapid approximation III: multivariate expansions. *IMA Journal of Numerical Analysis*, 29(4):882–916, October 2009. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/cgi/content/abstract/29/4/882; http://imajna.oxfordjournals.org/cgi/reprint/29/4/882.

Iserles:2008:D

[1337] Arieh Iserles and Michael L. Overton. Dedication. *IMA Journal of Numerical Analysis*, 28(4):647–648, October 2008. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/cgi/reprint/28/4/647.

Iserles:2007:CE

[1338] Arieh Iserles, Michael L. Overton, and Endre Süli. Change of Editorship. *IMA Journal of Numerical Analysis*, 27(1):i, January 2007. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/cgi/reprint/27/1/i.

Jackiewicz:1987:SAM

[1339] Z. Jackiewicz. Stability analysis of modified multilag methods for Volterra integral equations. *IMA Journal of Numerical Analysis*, 7(4):473–484, 1987. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Jackson:1989:OCS

[1340] I. R. H. Jackson. An order of convergence for some radial basis functions. *IMA Journal of Numerical Analysis*, 9(4):567–587, 1989. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Jacobs:1986:GCG

[1341] D. A. H. Jacobs. A generalization of the conjugate-gradient method to solve complex systems. *IMA Journal of Numerical Analysis*, 6(4):447–452, 1986. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Jahnke:2019:AEM

[1342] T. Jahnke and M. Mikl. Adiabatic exponential midpoint rule for the dispersion-managed nonlinear Schrödinger equation. *IMA Journal of Numerical Analysis*, 39(4):1818–1859, October 2019. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/39/4/1818/5053833.

Jain:1984:SOS

[1343] R. K. Jain, N. S. Kambo, and Rakesh Goel. A sixth-order P-stable symmetric multistep method for periodic initial value problems of second-order differential equations. *IMA Journal of Numerical Analysis*, 4(1):117–125, January 1984. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Jankuhn:2021:TFE

[1344] Thomas Jankuhn and Arnold Reusken. Trace finite element methods for surface vector-Laplace equations. *IMA Journal of Numerical Analysis*, 41 (1):48–83, January 2021. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/41/1/48/5829029.

Janovsky:1995:NAS

[1345] Vladimír Janovský and Petr Plecháč. Numerical analysis of subspace-breaking Takens–Bogdanov points. *IMA Journal of Numerical Analysis*, 15(2):265–290, 1995. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Janovsky:1995:CAT

[1346] Vladimír Janovský and Bodo Werner. Constructive analysis of Takens–Bogdanov points with Z_2-symmetry. *IMA Journal of Numerical Analysis*, 15(1):1–21, 1995. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Jantsch:2019:LCW

[1347] Peter Jantsch, Clayton G. Webster, and Guannan Zhang. On the Lebesgue constant of weighted Leja points for Lagrange interpolation on unbounded domains. *IMA Journal of Numerical Analysis*, 39(2):1039–1057, April 2019. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/39/2/1039/4944440.

Jaroszkowski:2024:FEA

[1348] Bartosz Jaroszkowski and Max Jensen. Finite element approximation of Hamilton–Jacobi–Bellman equations with nonlinear mixed boundary conditions. *IMA Journal of Numerical Analysis*, 44(1):576–603, January 2024. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/44/1/576/7074506.

Jawecki:2024:USB

[1349] Tobias Jawecki and Pranav Singh. Unitarity of some barycentric rational approximants. *IMA Journal of Numerical Analysis*, 44(4):2070–2089, July 2024.

CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/44/4/2070/7246874.

Jbilou:1999:IMM

[1350] K. Jbilou and H. Sadok. *LU* implementation of the modified minimal polynomial extrapolation method for solving linear and nonlinear systems. *IMA Journal of Numerical Analysis*, 19(4):549–561, October 1999. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_19/Issue_04/190549.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_19/Issue_04/pdf/190549.pdf.

Jeknic:2024:TDB

[1351] Zorica Milovanović Jeknić, Aleksandra Delić, and Sandra Živanović. A two-dimensional boundary value problem of elliptic type with nonlocal conjugation conditions. *IMA Journal of Numerical Analysis*, 44(5):3094–3123, September 2024. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/44/5/3094/7407729.

Jeltsch:1998:ABS

[1352] R. Jeltsch, R. A. Renaut, and J. H. Smit. An accuracy barrier for stable three-time-level difference schemes for hyperbolic equations. *IMA Journal of Numerical Analysis*, 18(3):445–484, July 1998. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_18/Issue_03/180445.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_18/Issue_03/pdf/180445.pdf.

Jennings:1982:BSV

[1353] A. Jennings. Bounds for the singular values of a matrix. *IMA Journal of Numerical Analysis*, 2(4):459–474, October 1982. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Jenschke:2019:AMS

[1354] Tristan Jenschke. Approximation of minimal surfaces with free boundaries: convergence results. *IMA Journal of Numerical Analysis*, 39(3):1391–1420, July 2019. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/39/3/1391/5053816.

Jensen:2017:FEC

[1355] Max Jensen. $L^2(H^1_\gamma)$ finite element convergence for degenerate isotropic Hamilton–Jacobi–Bellman equations. *IMA Journal of Numerical Analysis*, 37(3):1300–1316, July 1, 2017. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL https://academic.oup.com/imajna/article/37/3/1300/2422322/L2-H-1-Finite-Element-Convergence-for-Degenerate.

Jensen:2022:FEC

[1356] Max Jensen, Axel Målqvist, and Anna Persson. Finite element convergence for the time-dependent Joule heating problem with mixed boundary conditions. *IMA Journal of Numerical Analysis*, 42(1):199–228, January 2022. CODEN IJNADH. ISSN 0272-4979 (print),

1464-3642 (electronic). URL http://academic.oup.com/imajna/article/42/1/199/5917124.

Jentzen:2021:SEA

[1357] Arnulf Jentzen, Benno Kuckuck, Ariel Neufeld, and Philippe von Wurstemberger. Strong error analysis for stochastic gradient descent optimization algorithms. *IMA Journal of Numerical Analysis*, 41(1):455–492, January 2021. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/41/1/455/5828290.

Jentzen:2020:SCR

[1358] Arnulf Jentzen and Primoz Pusnik. Strong convergence rates for an explicit numerical approximation method for stochastic evolution equations with non-globally Lipschitz continuous nonlinearities. *IMA Journal of Numerical Analysis*, 40(2):1005–1050, April 2020. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/40/2/1005/5444218.

Jepson:1984:IOD

[1359] A. Jepson and A. Spence. On implicit ordinary differential equations. *IMA Journal of Numerical Analysis*, 4 (3):253–274, July 1984. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Jerez-Hanckes:2022:SGM

[1360] Carlos Jerez-Hanckes and José Pinto. Spectral Galerkin method for solving Helmholtz boundary integral equations on smooth screens. *IMA Journal of Numerical Analysis*, 42(4):3571–3608, October 2022. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/42/4/3571/6424455.

Jerez-Hanckes:2017:EWS

[1361] Carlos Jerez-Hanckes and Christoph Schwab. Electromagnetic wave scattering by random surfaces: uncertainty quantification via sparse tensor boundary elements. *IMA Journal of Numerical Analysis*, 37(3):1175–1210, July 1, 2017. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL https://academic.oup.com/imajna/article/37/3/1175/2670002/Electromagnetic-wave-scattering-by-random-surfaces.

Jiang:2022:AEF

[1362] Xue Jiang, Peijun Li, Junliang Lv, Zhoufeng Wang, Haijun Wu, and Weiying Zheng. An adaptive edge finite element DtN method for Maxwell's equations in biperiodic structures. *IMA Journal of Numerical Analysis*, 42 (3):2794–2828, July 2022. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/42/3/2794/6318666.

Jiang:2016:CIE

[1363] Zixian Jiang and Armin Lechleiter. Computing interior eigenvalues of domains from far fields. *IMA Journal of Numerical Analysis*, 36(3):1452–1476, July 2016. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/36/3/1452.

Jimack:1992:SLT

[1364] P. K. Jimack. On steady and large time solutions of the semi-discrete moving finite element equations for one-dimensional diffusion problems. *IMA Journal of Numerical Analysis*, 12(4): 545–564, 1992. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Jimack:1996:OEA

[1365] P. K. Jimack. Optimal eigenvalue and asymptotic large-time approximations using the moving finite-element method. *IMA Journal of Numerical Analysis*, 16(3):381–398, July 1996. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_16/Issue_03/160381.sgm.abs.html.

Jin:2015:EAS

[1366] Bangti Jin, Raytcho Lazarov, Joseph Pasciak, and Zhi Zhou. Error analysis of semidiscrete finite element methods for inhomogeneous time-fractional diffusion. *IMA Journal of Numerical Analysis*, 35(2):561–582, April 2015. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/35/2/561.

Jin:2016:ASS

[1367] Bangti Jin, Raytcho Lazarov, and Zhi Zhou. An analysis of the L_1 scheme for the subdiffusion equation with nonsmooth data. *IMA Journal of Numerical Analysis*, 36(1):197–221, January 2016. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/36/1/197.

Jin:2018:ACN

[1368] Bangti Jin, Buyang Li, and Zhi Zhou. An analysis of the Crank–Nicolson method for subdiffusion. *IMA Journal of Numerical Analysis*, 38(1):518–541, January 25, 2018. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/38/1/518/3782812.

Jin:2020:PTE

[1369] Bangti Jin, Buyang Li, and Zhi Zhou. Pointwise-in-time error estimates for an optimal control problem with subdiffusion constraint. *IMA Journal of Numerical Analysis*, 40(1):377–404, January 2020. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/40/1/377/5133698.

Jin:2017:CAF

[1370] Bangti Jin, Yifeng Xu, and Jun Zou. A convergent adaptive finite element method for electrical impedance tomography. *IMA Journal of Numerical Analysis*, 37(3):1520–1550, July 1, 2017. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL https://academic.oup.com/imajna/article/37/3/1520/2670046/A-convergent-adaptive-finite-element-method-for.

Jin:2012:IPC

[1371] Bangti Jin, Yubo Zhao, and Jun Zou. Iterative parameter choice by discrepancy principle. *IMA Journal of Numerical Analysis*, 32(4):1714–1732, October 2012. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/32/4/1714.full.pdf+html.

Jin:2023:RST

[1372] Bangti Jin and Zhi Zhou. Recovery of a space-time-dependent diffusion coefficient in subdiffusion: stability, approximation and error analysis. *IMA Journal of Numerical Analysis*, 43(4):2496–2531, July 2023. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/43/4/2496/6712213.

Jin:2010:NER

[1373] Bangti Jin and Jun Zou. Numerical estimation of the Robin coefficient in a stationary diffusion equation. *IMA Journal of Numerical Analysis*, 30(3):677–701, July 2010. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/cgi/content/abstract/30/3/677; http://imajna.oxfordjournals.org/cgi/reprint/30/3/677.

Jodar:1998:RMA

[1374] Lucas Jódar and J. C. Cortés López. Rational matrix approximation with a priori error bounds for non-symmetric matrix Riccati equations with analytic coefficients. *IMA Journal of Numerical Analysis*, 18(4):545–561, October 1998. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_18/Issue_04/180545.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_18/Issue_04/pdf/180545.pdf.

Jodar:1995:NAR

[1375] Lucas Jódar and Enrique Ponsoda. Non-autonomous Riccati-type matrix differential equations: existence interval, construction of continuous numerical solutions and error bounds. *IMA Journal of Numerical Analysis*, 15(1):61–74, 1995. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Joe:1987:DGM

[1376] S. Joe. Discrete Galerkin methods for Fredholm integral equations of the second kind. *IMA Journal of Numerical Analysis*, 7(2):149–164, 1987. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

John:2017:ECF

[1377] Lorenz John, Petra Pustejovska, Barbara Wohlmuth, and Ulrich Rüde. Energy-corrected finite element methods for the Stokes system. *IMA Journal of Numerical Analysis*, 37(2):687–729, April 2017. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL https://academic.oup.com/imajna/article/37/2/687/2669941/Energy-corrected-finite-element-methods-for-the.

Johnny:2012:FNE

[1378] Guzmán Johnny and Neilan Michael. A family of nonconforming elements for the Brinkman problem. *IMA Journal of Numerical Analysis*, 32(4):1484–1508, October 2012. CODEN IJNADH.

ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/32/4/1484.full.pdf+html.

Johnson:2000:OBE

[1379] Michael J. Johnson. Overcoming the boundary effects in surface spline interpolation. *IMA Journal of Numerical Analysis*, 20(3):405–422, July 2000. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_20/Issue_03/200405.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_20/Issue_03/pdf/200405.pdf.

Johnson:2009:SCM

[1380] Michael J. Johnson. A symmetric collocation method with fast evaluation. *IMA Journal of Numerical Analysis*, 29(3):773–789, July 2009. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/cgi/content/abstract/29/3/773; http://imajna.oxfordjournals.org/cgi/reprint/29/3/773.

Jolly:2005:CNS

[1381] M. S. Jolly and R. Rosa. Computation of non-smooth local centre manifolds. *IMA Journal of Numerical Analysis*, 25(4):698–725, October 2005. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imanum.oxfordjournals.org/cgi/reprint/25/4/698.

Jones:2023:ECD

[1382] Giselle Sosa Jones, Loïc Cappanera, and Beatrice Riviere. Existence and convergence of a discontinuous Galerkin method for the incompressible three-phase flow problem in porous media. *IMA Journal of Numerical Analysis*, 43(5):2714–2747, September 2023. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/43/5/2714/6706611.

Jovanovic:1987:CFDb

[1383] Boško S. Jovanović, Lav D. Ivanović, and Endre E. Süli. Convergence of a finite-difference scheme for second-order hyperbolic equations with variable coefficients. *IMA Journal of Numerical Analysis*, 7(1):39–45, 1987. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Jovanovic:1987:CFDa

[1384] Boško S. Jovanović, Lav D. Ivanović, and Endre E. Süli. Convergence of finite-difference schemes for elliptic equations with variable coefficients. *IMA Journal of Numerical Analysis*, 7(3):301–305, 1987. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Jovanovic:2011:NSP

[1385] Boško S. Jovanović and Lubin G. Vulkov. Numerical solution of a parabolic transmission problem. *IMA Journal of Numerical Analysis*, 31(1):233–253, January 2011. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/31/1/233.full.pdf+html.

Ju:2002:GST

[1386] Ning Ju. On the global stability of a temporal discretization scheme for the Navier–Stokes equations. *IMA Journal of Numerical Analysis*, 22(4): 577–597, October 2002. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_22/Issue_04/220577.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_22/Issue_04/pdf/220577.pdf.

Jung:2023:LTB

[1387] Jonathan Jung and Vincent Perrier. Long time behavior of finite volume discretization of symmetrizable linear hyperbolic systems. *IMA Journal of Numerical Analysis*, 43(1):326–356, January 2023. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/43/1/326/6479811.

Jungel:2023:DBE

[1388] Ansgar Jüngel and Antoine Zurek. A discrete boundedness-by-entropy method for finite-volume approximations of cross-diffusion systems. *IMA Journal of Numerical Analysis*, 43 (1):560–589, January 2023. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/43/1/560/6501123.

Kacur:1999:SSN

[1389] J. Kačur. Solution to strongly nonlinear parabolic problems by a linear approximation scheme. *IMA Journal of Numerical Analysis*, 19(1):119–145, January 1999. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_19/Issue_01/190119.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_19/Issue_01/pdf/190119.pdf.

Kacur:1997:NSC

[1390] J. Kačur and R. Van Keer. On the numerical solution of a class of nonlinear parabolic problems with Volterra operators by a Rothe-Galerkin finite element method. *IMA Journal of Numerical Analysis*, 17(2): 239–269, April 1997. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_17/Issue_02/170239.sgm.abs.html.

Kadalbajoo:2014:RNB

[1391] Mohan K. Kadalbajoo, Lok Pati Tripathi, and Puneet Arora. A robust nonuniform B-spline collocation method for solving the generalized Black–Scholes equation. *IMA Journal of Numerical Analysis*, 34(1):252–278, January 2014. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/34/1/252.full.pdf+html.

Kaklis:1997:SPI

[1392] P. D. Kaklis and M. I. Karavelas. Shape-preserving interpolation in $\mathbf{R}^3$. *IMA Journal of Numerical Analysis*, 17(3):373–419, July 1997. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_17/Issue_03/170373.sgm.abs.html.

Kaklis:1990:CPP

[1393] P. D. Kaklis and D. G. Pandelis. Convexity-preserving polynomial splines of nonuniform degree. *IMA Journal of Numerical Analysis*, 10(2): 223–234, 1990. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Kaltenbacher:2024:CGC

[1394] Barbara Kaltenbacher. Convergence guarantees for coefficient reconstruction in PDEs from boundary measurements by variational and Newton-type methods via range invariance. *IMA Journal of Numerical Analysis*, 44(3):1269–1312, May 2024. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/44/3/1269/7225099.

Kaltenbacher:2015:ETI

[1395] Barbara Kaltenbacher, Vanja Nikolic, and Mechthild Thalhammer. Efficient time integration methods based on operator splitting and application to the Westervelt equation. *IMA Journal of Numerical Analysis*, 35(3):1092–1124, July 2015. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/35/3/1092.

Kammonen:2023:SGE

[1396] Aku Kammonen, Jonas Kiessling, Petr Plecháč, Mattias Sandberg, Anders Szepessy, and Raul Tempone. Smaller generalization error derived for a deep residual neural network compared with shallow networks. *IMA Journal of Numerical Analysis*, 43(5): 2585–2632, September 2023. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/43/5/2585/6695119.

Kang:2022:GFE

[1397] Wenyan Kang, Bernard A. Egwu, Yubin Yan, and Amiya K. Pani. Galerkin finite element approximation of a stochastic semilinear fractional subdiffusion with fractionally integrated additive noise. *IMA Journal of Numerical Analysis*, 42(3):2301–2335, July 2022. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/42/3/2301/6278467.

Kangal:2020:ENA

[1398] Fatih Kangal and Emre Mengi. Erratum to: Nonsmooth algorithms for minimizing the largest eigenvalue with applications to inner numerical radius. *IMA Journal of Numerical Analysis*, 40(4):2942, October 2020. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/40/4/2942/5753772. See [1399].

Kangal:2020:NAM

[1399] Fatih Kangal and Emre Mengi. Nonsmooth algorithms for minimizing the largest eigenvalue with applications to inner numerical radius. *IMA Journal of Numerical Analysis*, 40(4): 2342–2376, October 2020. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/40/4/2342/5614862. See erratum [1398].

Kaps:1989:RMU

[1400] Peter Kaps and Alexander Ostermann. Rosenbrock methods using few *LU*-decompositions. *IMA Journal of Numerical Analysis*, 9(1):15–27, 1989. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Karaa:2017:FVE

[1401] Samir Karaa, Kassem Mustapha, and Amiya K. Pani. Finite volume element method for two-dimensional fractional subdiffusion problems. *IMA Journal of Numerical Analysis*, 37(2): 945–964, April 2017. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL https://academic.oup.com/imajna/article/37/2/945/2669948/Finite-volume-element-method-for-two-dimensional.

Karageorghis:1989:MFS

[1402] A. Karageorghis and G. Fairweather. The method of fundamental solutions for the solution of nonlinear plane potential problems. *IMA Journal of Numerical Analysis*, 9(2):231–242, 1989. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Karageorghis:1991:CCS

[1403] Andreas Karageorghis and Timothy N. Phillips. Conforming Chebyshev spectral collocation methods for the solution of laminar flow in a constricted channel. *IMA Journal of Numerical Analysis*, 11(1):33–54, 1991. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Karakashian:2017:TLA

[1404] Ohannes Karakashian and Craig Collins. Two-level additive Schwarz methods for discontinuous Galerkin approximations of second-order elliptic problems. *IMA Journal of Numerical Analysis*, 37(4):1800–1830, October 1, 2017. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL https://academic.oup.com/imajna/article/37/4/1800/2739359.

Karakatsani:2012:PEE

[1405] Fotini Karakatsani. A posteriori error estimates for the fractional-step ϑ-scheme for linear parabolic equations. *IMA Journal of Numerical Analysis*, 32(1):141–162, January 2012. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/32/1/141.full.pdf+html.

Karakatsani:2016:PEE

[1406] Fotini Karakatsani. A posteriori error estimates for fully discrete fractional-step θ-approximations for parabolic equations. *IMA Journal of Numerical Analysis*, 36(3):1334–1361, July 2016. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/36/3/1334.

Karakatsani:2007:PEA

[1407] Fotini Karakatsani and Charalambos Makridakis. A posteriori estimates for approximations of time-dependent Stokes equations. *IMA Journal of Numerical Analysis*, 27(4):741–764, October 2007. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/cgi/content/

abstract/27/4/741; http://imajna.oxfordjournals.org/cgi/reprint/27/4/741.

Karatson:2020:DMP

[1408] János Karátson, Balázs Kovács, and Sergey Korotov. Discrete maximum principles for nonlinear elliptic finite element problems on surfaces with boundary. *IMA Journal of Numerical Analysis*, 40(2):1241–1265, April 2020. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/40/2/1241/5231969.

Karlsen:2002:UDA

[1409] K. H. Karlsen, N. H. Risebro, and J. D. Towers. Upwind difference approximations for degenerate parabolic convection-diffusion equations with a discontinuous coefficient. *IMA Journal of Numerical Analysis*, 22(4):623–664, October 2002. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_22/Issue_04/220623.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_22/Issue_04/pdf/220623.pdf.

Karlsen:2018:ASM

[1410] K. H. Karlsen and E. B. Storrøsten. Analysis of a splitting method for stochastic balance laws. *IMA Journal of Numerical Analysis*, 38(1):1–56, January 25, 2018. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/38/1/1/3076087.

Karlsen:2012:CMM

[1411] Kenneth H. Karlsen and Trygve K. Karper. A convergent mixed method for the Stokes approximation of viscous compressible flow. *IMA Journal of Numerical Analysis*, 32(3):725–764, July 2012. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/32/3/725.full.pdf+html.

Karlsen:2024:CED

[1412] Kenneth H. Karlsen and John D. Towers. Compactness estimates for difference schemes for conservation laws with discontinuous flux. *IMA Journal of Numerical Analysis*, 44(6):3313–3353, November 2024. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/44/6/3313/7503872.

Karlsen:1999:USS

[1413] Kenneth Hvistendahl Karlsen and Knut-Andreas Lie. An unconditionally stable splitting scheme for a class of nonlinear parabolic equations. *IMA Journal of Numerical Analysis*, 19(4):609–635, October 1999. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_19/Issue_04/190609.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_19/Issue_04/pdf/190609.pdf.

Kawohl:1998:CFE

[1414] Bernhard Kawohl and Christoph Schwab. Convergent finite elements for a class of nonconvex variational problems. *IMA Journal of*

Numerical Analysis, 18(1):133–149, January 1998. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://www3.oup.co.uk/imanum/hdb/Volume_18/Issue_01/180133.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_18/Issue_01/pdf/180133.pdf`.

Kay:2001:RLE

[1415] David Kay and David Silvester. The reliability of local error estimators for convection-diffusion equations. *IMA Journal of Numerical Analysis*, 21(1):107–122, January 2001. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://www3.oup.co.uk/imanum/hdb/Volume_21/Issue_01/210107.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_21/Issue_01/pdf/210107.pdf`.

Kazashi:2019:QMC

[1416] Yoshihito Kazashi. Quasi-Monte Carlo integration with product weights for elliptic PDEs with log-normal coefficients. *IMA Journal of Numerical Analysis*, 39(3):1563–1593, July 2019. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/39/3/1563/5001155`.

Kelly:2018:ATS

[1417] Cónall Kelly and Gabriel J. Lord. Adaptive time-stepping strategies for nonlinear stochastic systems. *IMA Journal of Numerical Analysis*, 38(3):1523–1549, July 17, 2018. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/38/3/1523/4086057`.

Kessler:2002:PEE

[1418] D. Kessler and J.-F. Scheid. A priori error estimates of a finite-element method for an isothermal phase-field model related to the solidification process of a binary alloy. *IMA Journal of Numerical Analysis*, 22(2):281–305, April 2002. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://www3.oup.co.uk/imanum/hdb/Volume_22/Issue_02/220281.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_22/Issue_02/pdf/220281.pdf`.

Ketcheson:2015:ASR

[1419] David Ketcheson, Lajos Lóczi, and Tihamér A. Kocsis. On the absolute stability regions corresponding to partial sums of the exponential function. *IMA Journal of Numerical Analysis*, 35(3):1426–1455, July 2015. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/35/3/1426`.

Khalifa:1982:CQC

[1420] A. K. A. Khalifa and J. C. Eilbeck. Collocation with quadratic and cubic splines. *IMA Journal of Numerical Analysis*, 2(1):111–121, January 1982. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Khan:2021:RPE

[1421] Arbaz Khan and David J. Silvester. Robust a posteriori error estimation for mixed finite element approximation of linear poroelasticity. *IMA Journal of Numerical Analysis*, 41 (3):2000–2025, July 2021. CODEN

IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/41/3/2000/5919139.

Khor:1990:FRM

[1422] K. E. Khor. A factorization-related method for elliptic partial differential equations with iterative improvement. *IMA Journal of Numerical Analysis*, 10(3):407–424, 1990. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Khristenko:2023:STF

[1423] Ustim Khristenko and Barbara Wohlmuth. Solving time-fractional differential equations via rational approximation. *IMA Journal of Numerical Analysis*, 43(3):1263–1290, May 2023. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/43/3/1263/6609534.

King:1986:NDF

[1424] J. Thomas King and Diego A. Murio. Numerical differentiation by finite-dimensional regularization. *IMA Journal of Numerical Analysis*, 6(1):65–85, 1986. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Kirk:2024:NAH

[1425] Keegan L. A. Kirk, Beatrice Riviere, and Rami Masri. Numerical analysis of a hybridized discontinuous Galerkin method for the Cahn–Hilliard problem. *IMA Journal of Numerical Analysis*, 44(5):2752–2792, September 2024. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/44/5/2752/7331427.

Kirsch:1990:CAC

[1426] A. Kirsch and P. Monk. Convergence analysis of a coupled finite element and spectral method in acoustic scattering. *IMA Journal of Numerical Analysis*, 10(3):425–447, 1990. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Kirsch:1994:ACF

[1427] A. Kirsch and P. Monk. An analysis of the coupling of finite-element and Nyström methods in acoustic scattering. *IMA Journal of Numerical Analysis*, 14(4):523–544, 1994. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Kiwiel:1985:EPF

[1428] Krzysztof C. Kiwiel. An exact penalty function algorithm for nonsmooth convex constrained minimization problems. *IMA Journal of Numerical Analysis*, 5(1):111–119, 1985. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Kiwiel:1986:MSC

[1429] Krzysztof C. Kiwiel. A method for solving certain quadratic programming problems arising in nonsmooth optimization. *IMA Journal of Numerical Analysis*, 6(2):137–152, 1986. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Klein:2003:PEE

[1430] Olaf Klein and Claudio Verdi. A posteriori error estimates for a time discrete scheme for a phase-field system of Penrose-Fife type. *IMA Journal of Numerical Analysis*, 23(1):

55–80, January 2003. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_23/Issue_01/230055.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_23/Issue_01/pdf/230055.pdf.

Kloeden:2009:ASV

[1431] P. E. Kloeden and J. Valero. Attractors of set-valued partial differential equations under discretization. *IMA Journal of Numerical Analysis*, 29(3): 690–711, July 2009. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/cgi/content/abstract/29/3/690; http://imajna.oxfordjournals.org/cgi/reprint/29/3/690.

Kloeden:2003:UAN

[1432] Peter E. Kloeden and Johannes Schropp. Uniform attractors of nonautonomous index 2 differential algebraic equations under discretization. *IMA Journal of Numerical Analysis*, 23(2): 221–239, April 2003. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_23/Issue_02/230221.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_23/Issue_02/pdf/230221.pdf.

Knobloch:2011:SFE

[1433] Petr Knobloch and Lutz Tobiska. On the stability of finite-element discretizations of convection–diffusion–reaction equations. *IMA Journal of Numerical Analysis*, 31(1):147–164, January 2011. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/31/1/147.full.pdf+html.

Koch:2011:VST

[1434] Othmar Koch and Christian Lubich. Variational-splitting time integration of the multi-configuration time-dependent Hartree–Fock equations in electron dynamics. *IMA Journal of Numerical Analysis*, 31(2):379–395, April 2011. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/31/2/379.full.pdf+html.

Kohler:1993:EEG

[1435] Peter Köhler. Error estimates for generalized compound quadrature formulas. *IMA Journal of Numerical Analysis*, 13(3):477–491, 1993. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Kokkinos:1990:OMA

[1436] C. A. Kokkinos, N. Papamichael, and A. B. Sideridis. An orthonormalization method for the approximate conformal mapping of multiply-connected domains. *IMA Journal of Numerical Analysis*, 10(3):343–359, 1990. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Koley:2012:HOF

[1437] U. Koley, S. Mishra, N. H. Risebro, and M. Svärd. Higher-order finite difference schemes for the magnetic induction equations with resistivity. *IMA Journal of Numerical Analysis*, 32(3):1173–1193, July 2012. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/32/3/1173.full.pdf+html`.

Koley:2018:FDS

[1438] Ujjwal Koley, Ananta K. Majee, and Guy Vallet. A finite difference scheme for conservation laws driven by Lévy noise. *IMA Journal of Numerical Analysis*, 38(2):998–1050, April 18, 2018. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/38/2/998/3848985`.

Koley:2024:RCN

[1439] Ujjwal Koley and Guy Vallet. On the rate of convergence of a numerical scheme for fractional conservation laws with noise. *IMA Journal of Numerical Analysis*, 44(3):1372–1405, May 2024. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/44/3/1372/7080840`.

Koltracht:1990:CSL

[1440] I. Koltracht and P. Lancaster. Constraining strategies for linear iterative processes. *IMA Journal of Numerical Analysis*, 10(4):555–567, 1990. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Kopec:2015:WBE

[1441] Marie Kopec. Weak backward error analysis for overdamped Langevin processes. *IMA Journal of Numerical Analysis*, 35(2):583–614, April 2015. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/35/2/583`.

Kopteva:2007:MNP

[1442] Natalia Kopteva. Maximum norm a posteriori error estimates for a 1D singularly perturbed semilinear reaction–diffusion problem. *IMA Journal of Numerical Analysis*, 27(3):576–592, July 2007. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/cgi/content/abstract/27/3/576`; `http://imajna.oxfordjournals.org/cgi/reprint/27/3/576`.

Kopteva:2011:PEE

[1443] Natalia Kopteva and Simona Blanca Savescu. Pointwise error estimates for a singularly perturbed time-dependent semilinear reaction–diffusion problem. *IMA Journal of Numerical Analysis*, 31(2):616–639, April 2011. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/31/2/616.full.pdf+html`.

Koshy:1985:URP

[1444] Mathew Koshy and R. P. Tewarson. On the use of restricted pseudo-inverses for the unified derivation of quasi-Newton updates. *IMA Journal of Numerical Analysis*, 5(2):141–151, 1985. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Kovacs:2018:HOE

[1445] Balázs Kovács. High-order evolving surface finite element method for parabolic problems on evolving surfaces. *IMA Journal of Numerical Analysis*, 38(1):430–459, January 25, 2018. CODEN IJNADH. ISSN 0272-4979

(print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/38/1/430/3074895.

Kovacs:2018:HOT

[1446] Balázs Kovács and Christian Andreas Power Guerra. Higher order time discretizations with ALE finite elements for parabolic problems on evolving surfaces. *IMA Journal of Numerical Analysis*, 38(1):460–494, January 25, 2018. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/38/1/460/3098317.

Kovacs:2023:MRB

[1447] Balázs Kovács and Buyang Li. Maximal regularity of backward difference time discretization for evolving surface PDEs and its application to nonlinear problems. *IMA Journal of Numerical Analysis*, 43(4):1937–1969, July 2023. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/43/4/1937/6671756.

Kovacs:2017:NAP

[1448] Balázs Kovács and Christian Lubich. Numerical analysis of parabolic problems with dynamic boundary conditions. *IMA Journal of Numerical Analysis*, 37(1):1–39, January 1, 2017. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL https://academic.oup.com/imajna/article/37/1/1/2669955/Numerical-analysis-of-parabolic-problems-with.

Kovacs:2023:ASC

[1449] Mihály Kovács, Annika Lang, and Andreas Petersson. Approximation of SPDE covariance operators by finite elements: a semigroup approach. *IMA Journal of Numerical Analysis*, 43(3):1324–1357, May 2023. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/43/3/1324/6591484.

Kratz:1987:NSM

[1450] W. Kratz and E. Stickel. Numerical solution of matrix polynomial equations by Newton's method. *IMA Journal of Numerical Analysis*, 7(3):355–369, 1987. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Kraus:2021:VIS

[1451] Michael Kraus and Tomasz M. Tyranowski. Variational integrators for stochastic dissipative Hamiltonian systems. *IMA Journal of Numerical Analysis*, 41(2):1318–1367, April 2021. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/41/2/1318/5870124.

Kress:2008:NTR

[1452] Wendy Kress and Stefan Sauter. Numerical treatment of retarded boundary integral equations by sparse panel clustering. *IMA Journal of Numerical Analysis*, 28(1):162–185, January 2008. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/cgi/content/abstract/28/1/162; http://imajna.

oxfordjournals.org/cgi/reprint/28/1/162.

Kressner:2014:GEP

[1453] Daniel Kressner, Emre Mengi, Ivica Nakić, and Ninoslav Truhar. Generalized eigenvalue problems with specified eigenvalues. *IMA Journal of Numerical Analysis*, 34(2):480–501, April 2014. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/34/2/480.full.pdf+html.

Kretzschmar:2016:PEA

[1454] Fritz Kretzschmar, Andrea Moiola, Ilaria Perugia, and Sascha M. Schnepp. A priori error analysis of space-time Trefftz discontinuous Galerkin methods for wave problems. *IMA Journal of Numerical Analysis*, 36(4):1599–1635, October 2016. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/36/4/1599.

Kreuzer:2012:DCA

[1455] Christian Kreuzer, Christian A. Möller, Alfred Schmidt, and Kunibert G. Siebert. Design and convergence analysis for an adaptive discretization of the heat equation. *IMA Journal of Numerical Analysis*, 32(4):1375–1403, October 2012. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/32/4/1375.full.pdf+html.

Kreuzer:2016:IOC

[1456] Christian Kreuzer and Mira Schedensack. Instance optimal Crouzeix–Raviart adaptive finite element methods for the Poisson and Stokes problems. *IMA Journal of Numerical Analysis*, 36(2):593–617, April 2016. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/36/2/593.

Kreuzer:2020:QOP

[1457] Christian Kreuzer and Pietro Zanotti. Quasi-optimal and pressure-robust discretizations of the Stokes equations by new augmented Lagrangian formulations. *IMA Journal of Numerical Analysis*, 40(4):2553–2583, October 2020. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/40/4/2553/5680731.

Krieg:2024:RPO

[1458] David Krieg and Mathias Sonnleitner. Random points are optimal for the approximation of Sobolev functions. *IMA Journal of Numerical Analysis*, 44(3):1346–1371, May 2024. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/44/3/1346/7084938.

Krivko:2014:NIH

[1459] M. Krivko and M. V. Tretyakov. Numerical integration of the Heath–Jarrow–Morton model of interest rates. *IMA Journal of Numerical Analysis*, 34(1):147–196, January 2014. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/34/1/147.full.pdf+html.

Kruse:2014:OEE

[1460] Raphael Kruse. Optimal error estimates of Galerkin finite element methods for stochastic partial differential equations with multiplicative noise. *IMA Journal of Numerical Analysis*, 34(1):217–251, January 2014. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/34/1/217.full.pdf+html.

Ku:2011:PEE

[1461] Jaeun Ku. Pointwise error estimate and asymptotic error expansion inequalities for a stabilized Galerkin method. *IMA Journal of Numerical Analysis*, 31(1):165–187, January 2011. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/31/1/165.full.pdf+html.

Ku:2016:LPE

[1462] JaEun Ku. Localized pointwise error estimates for direct flux approximation. *IMA Journal of Numerical Analysis*, 36(3):1410–1431, July 2016. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/36/3/1410.

Kucera:2014:DUE

[1463] Václav Kucera. On diffusion-uniform error estimates for the DG method applied to singularly perturbed problems. *IMA Journal of Numerical Analysis*, 34(2):820–861, April 2014. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/34/2/820.full.pdf+html.

Kucera:2019:TGE

[1464] Václav Kucera and Chi-Wang Shu. On the time growth of the error of the DG method for advective problems. *IMA Journal of Numerical Analysis*, 39(2):687–712, April 2019. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/39/2/687/4961330.

Kuhn:1998:CFD

[1465] T. Kühn. Convergence of a fully discrete approximation for advected mean curvature flows. *IMA Journal of Numerical Analysis*, 18(4):595–634, October 1998. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_18/Issue_04/180595.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_18/Issue_04/pdf/180595.pdf.

Kulikov:2013:CGE

[1466] Gennady Yu. Kulikov. Cheap global error estimation in some Runge–Kutta pairs. *IMA Journal of Numerical Analysis*, 33(1):136–163, January 2013. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/33/1/136.full.pdf+html.

Kulkarni:1997:UEI

[1467] Rekha P. Kulkarni. Use of extrapolation for improving the order of convergence of eigenelement approximations. *IMA Journal of Numerical Analysis*, 17 (2):271–284, April 1997. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_17/Issue_02/170271.sgm.abs.html.

Kumar:2025:PHD

[1468] Nishant Kumar, J J W van der Vegt, and H J Zwart. Port-Hamiltonian discontinuous Galerkin finite element methods. *IMA Journal of Numerical Analysis*, 45(1):354–403, January 2025. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/45/1/354/7657985.

Kumar:1987:SCT

[1469] Sunil Kumar. Superconvergence of a collocation-type method for Hammerstein equations. *IMA Journal of Numerical Analysis*, 7(3):313–325, 1987. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Kunert:2001:PEE

[1470] Gerd Kunert. *A posteriori* L_2 error estimation on anisotropic tetrahedral finite element meshes. *IMA Journal of Numerical Analysis*, 21(2): 503–523, April 2001. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_21/Issue_02/210503abs.pdf; http://www3.oup.co.uk/imanum/hdb/Volume_21/Issue_02/pdf/210503.pdf.

Kunert:2005:PEE

[1471] Gerd Kunert. A posteriori H^1 error estimation for a singularly perturbed reaction diffusion problem on anisotropic meshes. *IMA Journal of Numerical Analysis*, 25(2):408–428, April 2005. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imanum.oupjournals.org/cgi/content/abstract/25/2/408; http://imanum.oupjournals.org/cgi/reprint/25/2/408.

Kunkel:1989:ECS

[1472] P. Kunkel. Efficient computation of singular points. *IMA Journal of Numerical Analysis*, 9(3):421–433, 1989. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Kunkel:1996:TBA

[1473] P. Kunkel. A tree-based analysis of a family of augmented systems for the computation of singular points. *IMA Journal of Numerical Analysis*, 16(4): 501–527, October 1996. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_16/Issue_04/160501.sgm.abs.html.

Kuo:1981:CMN

[1474] Pên Yu Kuo and J. M. Sanz-Serna. Convergence of methods for the numerical solution of the Korteweg–de Vries equation. *IMA Journal of Numerical Analysis*, 1(2):215–221, 1981. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Kuznetsov:2022:RCG

[1475] Alexey Kuznetsov and Justin Miles. On the rate of convergence of the Gaver–Stehfest algorithm. *IMA Journal of Numerical Analysis*, 42(2): 1645–1664, April 2022. CODEN

IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/42/2/1645/6228274.

Kwon:2022:CCE

[1476] Young-Sam Kwon and Antonín Novotný. Consistency, convergence and error estimates for a mixed finite element-finite volume scheme to compressible Navier–Stokes equations with general inflow/outflow boundary data. *IMA Journal of Numerical Analysis*, 42 (1):107–164, January 2022. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/42/1/107/6139193.

Kyoya:2020:CCM

[1477] Shunki Kyoya and Ken'ichiro Tanaka. Construction of conformal maps based on the locations of singularities for improving the double exponential formula. *IMA Journal of Numerical Analysis*, 40(4):2746–2776, October 2020. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/40/4/2746/5614270.

Kyprianou:2018:UWS

[1478] Andreas E. Kyprianou, Ana Osojnik, and Tony Shardlow. Unbiased 'walk-on-spheres' Monte Carlo methods for the fractional Laplacian. *IMA Journal of Numerical Analysis*, 38(3): 1550–1578, July 17, 2018. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/38/3/1550/4090986.

Kyza:2011:ECT

[1479] Irene Kyza, Charalambos Makridakis, and Michael Plexousakis. Error control for time-splitting spectral approximations of the semiclassical Schrödinger equation. *IMA Journal of Numerical Analysis*, 31(2):416–441, April 2011. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/31/2/416.full.pdf+html.

Lai:2002:FSD

[1480] Ming-Chih Lai, Wen-Wei Lin, and Weichung Wang. A fast spectral/difference method without pole conditions for Poisson-type equations in cylindrical and spherical geometries. *IMA Journal of Numerical Analysis*, 22(4):537–548, October 2002. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_22/Issue_04/220537.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_22/Issue_04/pdf/220537.pdf.

Lakkis:2022:LSG

[1481] Omar Lakkis and Amireh Mousavi. A least-squares Galerkin approach to gradient and Hessian recovery for nondivergence-form elliptic equations. *IMA Journal of Numerical Analysis*, 42(3):2151–2189, July 2022. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/42/3/2151/6366397.

Lakkis:2012:GRA

[1482] Omar Lakkis and Tristan Pryer. Gradient recovery in adaptive finite-element methods for parabolic problems. *IMA Journal of Numerical Analysis*, 32(1):246–278, January 2012. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/32/1/246.full.pdf+html.

Lamba:2007:AEM

[1483] H. Lamba, J. C. Mattingly, and A. M. Stuart. An adaptive Euler–Maruyama scheme for SDEs: convergence and stability. *IMA Journal of Numerical Analysis*, 27(3):479–506, July 2007. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/cgi/content/abstract/27/3/479; http://imajna.oxfordjournals.org/cgi/reprint/27/3/479.

Lamichhane:2009:ISS

[1484] Bishnu P. Lamichhane. Inf-sup stable finite-element pairs based on dual meshes and bases for nearly incompressible elasticity. *IMA Journal of Numerical Analysis*, 29(2):404–420, April 2009. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/cgi/content/abstract/29/2/404; http://imajna.oxfordjournals.org/cgi/reprint/29/2/404.

Langdon:2001:BIM

[1485] S. Langdon and I. G. Graham. Boundary integral methods for singularly perturbed boundary value problems. *IMA Journal of Numerical Analysis*, 21(1):217–237, January 2001. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_21/Issue_01/210217abs.pdf; http://www3.oup.co.uk/imanum/hdb/Volume_21/Issue_01/pdf/210217.pdf.

Lanteri:2013:CDG

[1486] Stéphane Lanteri and Claire Scheid. Convergence of a discontinuous Galerkin scheme for the mixed time-domain Maxwell's equations in dispersive media. *IMA Journal of Numerical Analysis*, 33(2):432–459, April 2013. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/33/2/432.full.pdf+html.

Larson:2020:SHO

[1487] Mats G. Larson and Sara Zahedi. Stabilization of high order cut finite element methods on surfaces. *IMA Journal of Numerical Analysis*, 40(3):1702–1745, July 2020. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/40/3/1702/5479342.

Larsson:2024:SRB

[1488] Elisabeth Larsson and Robert Schaback. Scaling of radial basis functions. *IMA Journal of Numerical Analysis*, 44(2):1130–1152, March 2024. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/44/2/1130/7192242.

Larsson:2011:FEA

[1489] Stig Larsson and Ali Mesforush. Finite-element approximation of the linearized Cahn–Hilliard–Cook equation. *IMA Journal of Numerical Analysis*, 31(4):1315–1333, October 2011. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/31/4/1315.full.pdf+html`.

Larsson:2010:CGM

[1490] Stig Larsson and Fardin Saedpanah. The continuous Galerkin method for an integro-differential equation modeling dynamic fractional order viscoelasticity. *IMA Journal of Numerical Analysis*, 30(4):964–986, October 2010. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/30/4/964.full.pdf+html`.

Larsson:1991:FEM

[1491] Stig Larsson, Vidar Thomée, and Lars B. Wahlbin. Finite-element methods for a strongly damped wave equation. *IMA Journal of Numerical Analysis*, 11(1):115–142, 1991. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Latouche:1994:NIN

[1492] Guy Latouche. Newton's iteration for non-linear equations in Markov chains. *IMA Journal of Numerical Analysis*, 14(4):583–598, 1994. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Laurita:2012:QMC

[1493] Concetta Laurita. A quadrature method for Cauchy singular integral equations with index -1. *IMA Journal of Numerical Analysis*, 32(3):1071–1095, July 2012. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/32/3/1071.full.pdf+html`.

LeTallec:1986:NSV

[1494] Patrick Le Tallec. Numerical solution of viscoplastic flow problems by augmented Lagrangians. *IMA Journal of Numerical Analysis*, 6(2):185–219, 1986. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Leake:1989:AOS

[1495] D. Leake and H. Mukai. Acceleration of one-step stationary root-finding algorithms. *IMA Journal of Numerical Analysis*, 9(1):81–93, 1989. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Lechleiter:2012:SVI

[1496] Armin Lechleiter and Dinh Liem Nguyen. Spectral volumetric integral equation methods for acoustic medium scattering in a 3D waveguide. *IMA Journal of Numerical Analysis*, 32(3):813–844, July 2012. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/32/3/813.full.pdf+html`.

Lederer:2018:PRS

[1497] Philip L. Lederer and Joachim Schöberl. Polynomial robust stability analysis for H(div)-conforming finite elements for the Stokes equations. *IMA Journal of Numerical Analysis*, 38(4): 1832–1860, October 16, 2018. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/38/4/1832/4096776`.

Ledoux:2010:ENS

[1498] Veerle Ledoux, Marnix Van Daele, and Guido Vanden Berghe. Efficient numerical solution of the one-dimensional Schrödinger eigenvalue problem using Magnus integrators. *IMA Journal of Numerical Analysis*, 30(3):751–776, July 2010. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/cgi/content/abstract/30/3/751`; `http://imajna.oxfordjournals.org/cgi/reprint/30/3/751`.

Lee:2012:STA

[1499] Mun Bae Lee, Yeon Ju Lee, and Jungho Yoon. Sobolev-type L_p-approximation orders of radial basis function interpolation to functions in fractional Sobolev spaces. *IMA Journal of Numerical Analysis*, 32(1):279–293, January 2012. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/32/1/279.full.pdf+html`.

Lehmann:1986:CEB

[1500] Reinhard Lehmann. Computable error bounds in the finite-element method. *IMA Journal of Numerical Analysis*, 6(3):265–271, 1986. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Lehrenfeld:2018:AHO

[1501] Christoph Lehrenfeld and Arnold Reusken. Analysis of a high-order unfitted finite element method for elliptic interface problems. *IMA Journal of Numerical Analysis*, 38(3):1351–1387, July 17, 2018. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/38/3/1351/4084723`.

Leimkuhler:2016:CAE

[1502] Benedict Leimkuhler, Charles Matthews, and Gabriel Stoltz. The computation of averages from equilibrium and nonequilibrium Langevin molecular dynamics. *IMA Journal of Numerical Analysis*, 36(1):13–79, January 2016. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/36/1/13`.

Leitao:2021:RRC

[1503] A. Leitão, F. Margotti, and B. F. Svaiter. Range-relaxed criteria for choosing the Lagrange multipliers in the Levenberg–Marquardt method. *IMA Journal of Numerical Analysis*, 41 (4):2962–2989, October 2021. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/41/4/2962/5906072`.

Lelievre:2023:MPM

[1504] Tony Lelièvre, Gabriel Stoltz, and Wei Zhang. Multiple projection Markov chain Monte Carlo algorithms on submanifolds. *IMA Journal of Numerical Analysis*, 43(2):737–788, March 2023.

CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/43/2/737/6549751.

Lemaire:2021:BHH

[1505] Simon Lemaire. Bridging the hybrid high-order and virtual element methods. *IMA Journal of Numerical Analysis*, 41(1):549–593, January 2021. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/41/1/549/5671601.

Leng:2024:AIP

[1506] Haitao Leng and Huangxin Chen. Adaptive interior penalty hybridized discontinuous Galerkin methods for Darcy flow in fractured porous media. *IMA Journal of Numerical Analysis*, 44(4):2165–2197, July 2024. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/44/4/2165/7225492.

Leok:2012:PCV

[1507] Melvin Leok and Tatiana Shingel. Prolongation-collocation variational integrators. *IMA Journal of Numerical Analysis*, 32(3):1194–1216, July 2012. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/32/3/1194.full.pdf+html.

Leok:2011:DHV

[1508] Melvin Leok and Jingjing Zhang. Discrete Hamiltonian variational integrators. *IMA Journal of Numerical Analysis*, 31(4):1497–1532, October 2011. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/31/4/1497.full.pdf+html.

LeVeque:1988:FAS

[1509] Randall J. LeVeque and Lloyd N. Trefethen. Fourier analysis of the SOR iteration. *IMA Journal of Numerical Analysis*, 8(3):273–279, 1988. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Levesley:1994:CCM

[1510] J. Levesley, D. M. Hough, and S. N. Chandler-Wilde. A Chebyshev collocation method for solving Symm's integral equation for conformal mapping: a partial error analysis. *IMA Journal of Numerical Analysis*, 14(1):57–79, 1994. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Levin:1986:MRS

[1511] David Levin. Multidimensional reconstruction by set-valued approximations. *IMA Journal of Numerical Analysis*, 6(2):173–184, 1986. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Levine:1985:SRG

[1512] Nick Levine. Superconvergent recovery of the gradient from piecewise linear finite element approximations. *IMA Journal of Numerical Analysis*, 5(4):407–427, 1985. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Levitin:2004:SPS

[1513] Michael Levitin and Eugene Shargorodsky. Spectral pollution and second-order relative spectra for self-adjoint operators. *IMA Journal of Numerical Analysis*, 24(3):393–416, July 2004. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_24/Issue_03/240393.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_24/Issue_03/pdf/240393.pdf.

Levy:2005:SSD

[1514] Doron Levy. A stable semi-discrete central scheme for the two-dimensional incompressible Euler equations. *IMA Journal of Numerical Analysis*, 25(3): 507–522, July 2005. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imanum.oxfordjournals.org/cgi/content/abstract/25/3/507; http://imanum.oxfordjournals.org/cgi/reprint/25/3/507.

Li:2022:MRM

[1515] Buyang Li. Maximal regularity of multistep fully discrete finite element methods for parabolic equations. *IMA Journal of Numerical Analysis*, 42 (2):1700–1734, April 2022. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/42/2/1700/6209613.

Li:2024:CFE

[1516] Buyang Li, Haigang Li, and Zongze Yang. Convergent finite element methods for the perfect conductivity problem with close-to-touching inclusions. *IMA Journal of Numerical Analysis*, 44(6):3280–3312, November 2024. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/44/6/3280/7378011.

Li:2010:NCR

[1517] Buyang Li and Weiwei Sun. Newton–Cotes rules for Hadamard finite-part integrals on an interval. *IMA Journal of Numerical Analysis*, 30(4):1235–1255, October 2010. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/30/4/1235.full.pdf+html.

Li:2023:OCA

[1518] Buyang Li, Yinhua Xia, and Zongze Yang. Optimal convergence of arbitrary Lagrangian–Eulerian isoparametric finite element methods for parabolic equations in an evolving domain. *IMA Journal of Numerical Analysis*, 43(1):501–534, January 2023. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/43/1/501/6504751.

Li:2024:GSO

[1519] Chao Li and Xiaojun Chen. Group sparse optimization for inpainting of random fields on the sphere. *IMA Journal of Numerical Analysis*, 44(5): 3028–3058, September 2024. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/44/5/3028/7271763.

Li:1983:FEF

[1520] Chin Hsien Li. A finite-element front-tracking enthalpy method for Stefan problems. *IMA Journal of Numerical*

Analysis, 3(1):87–107, 1983. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Li:2006:NMR

[1521] Chong Li and Jinhua Wang. Newton's method on Riemannian manifolds: Smale's point estimate theory under the γ-condition. *IMA Journal of Numerical Analysis*, 26(2):228–251, April 2006. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imanum.oxfordjournals.org/cgi/content/abstract/26/2/228; http://imanum.oxfordjournals.org/cgi/reprint/26/2/228.

Li:2018:EAV

[1522] Guanglian Li, Daniel Peterseim, and Mira Schedensack. Error analysis of a variational multiscale stabilization for convection-dominated diffusion equations in two dimensions. *IMA Journal of Numerical Analysis*, 38(3):1229–1253, July 17, 2018. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/38/3/1229/3871420.

Li:2023:LRE

[1523] Hang Li and Chunmei Su. Low regularity exponential-type integrators for the "good" Boussinesq equation. *IMA Journal of Numerical Analysis*, 43(6):3656–3684, November 2023. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/43/6/3656/6991353.

Li:2023:FEM

[1524] Hengguang Li, Peimeng Yin, and Zhimin Zhang. A C^0 finite element method for the biharmonic problem with Navier boundary conditions in a polygonal domain. *IMA Journal of Numerical Analysis*, 43(3):1779–1801, May 2023. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/43/3/1779/6619550.

Li:2003:LGC

[1525] Huiyuan Li, Hua Wu, and Heping Ma. The Legendre Galerkin-Chebyshev collocation method for Burgers-like equations. *IMA Journal of Numerical Analysis*, 23(1):109–124, January 2003. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_23/Issue_01/230109.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_23/Issue_01/pdf/230109.pdf.

Li:2003:NSL

[1526] Journal Changjun Li, Zheng Li, David J. Evans, and Tie Zhang. A note on an SOR-like method for augmented systems. *IMA Journal of Numerical Analysis*, 23(4):581–592, October 2003. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_23/Issue_04/230581.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_23/Issue_04/pdf/230581.pdf.

Li:2022:CNV

[1527] Meng Li, Jikun Zhao, Chengming

Huang, and Shaochun Chen. Conforming and nonconforming VEMs for the fourth-order reaction-subdiffusion equation: a unified framework. *IMA Journal of Numerical Analysis*, 42 (3):2238–2300, July 2022. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/42/3/2238/6275667`.

Li:2022:NMS

[1528] Min Li, Chengming Huang, and Yaozhong Hu. Numerical methods for stochastic Volterra integral equations with weakly singular kernels. *IMA Journal of Numerical Analysis*, 42(3):2656–2683, July 2022. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/42/3/2656/6310908`.

Li:2011:CDF

[1529] Qingna Li and Dong-Hui Li. A class of derivative-free methods for large-scale nonlinear monotone equations. *IMA Journal of Numerical Analysis*, 31(4):1625–1635, October 2011. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/31/4/1625.full.pdf+html`.

Li:2022:DLS

[1530] Ruo Li, Qicheng Liu, and Fanyi Yang. A discontinuous least squares finite element method for time-harmonic Maxwell equations. *IMA Journal of Numerical Analysis*, 42(1):817–839, January 2022. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/42/1/817/6110400`.

Li:2011:SNA

[1531] Tiexiang Li, Eric King-Wah Chu, Jong Juang, and Wen-Wei Lin. Solution of a nonsymmetric algebraic Riccati equation from a one-dimensional multistate transport model. *IMA Journal of Numerical Analysis*, 31(4):1453–1467, October 2011. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/31/4/1453.full.pdf+html`.

Li:2024:AFM

[1532] Tongtong Li, Sergio Caucao, and Ivan Yotov. An augmented fully mixed formulation for the quasistatic Navier–Stokes-Biot model. *IMA Journal of Numerical Analysis*, 44(2): 1153–1210, March 2024. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/44/2/1153/7199400`.

Li:2024:UES

[1533] Wei Li, Pengzhan Huang, and Yinnian He. An unconditionally energy stable finite element scheme for a nonlinear fluid-fluid interaction model. *IMA Journal of Numerical Analysis*, 44 (1):157–191, January 2024. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/44/1/157/7000821`.

Li:2021:QSE

[1534] Wenbo Li and Ricardo H. Nochetto. Quantitative stability and error estimates for optimal transport plans. *IMA Journal of Numerical Analysis*, 41(3):1941–1965, July 2021. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/41/3/1941/5879877`.

Li:2024:TSM

[1535] Wenbo Li and Abner J. Salgado. Two-scale methods for the normalized infinity Laplacian: rates of convergence. *IMA Journal of Numerical Analysis*, 44(5):2603–2666, September 2024. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/44/5/2603/7326027`.

Li:2023:SPA

[1536] Xiao Li, Zhonghua Qiao, and Cheng Wang. Stabilization parameter analysis of a second-order linear numerical scheme for the nonlocal Cahn–Hilliard equation. *IMA Journal of Numerical Analysis*, 43(2):1089–1114, March 2023. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/43/2/1089/6528488`.

Li:2023:NAM

[1537] Xiaoxu Li, Huajie Chen, and Xingyu Gao. Numerical analysis of multiple scattering theory for electronic structure calculations. *IMA Journal of Numerical Analysis*, 43(4):2228–2264, July 2023. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/43/4/2228/6665246`.

Li:2019:CEN

[1538] Xiaoyue Li, Xuerong Mao, and George Yin. Corrigendum to: Explicit numerical approximations for stochastic differential equations in finite and infinite horizons: truncation methods, convergence in p th moment and stability. *IMA Journal of Numerical Analysis*, 39(4):2168, October 2019. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/39/4/2168/5059705`. See [1539].

Li:2019:ENA

[1539] Xiaoyue Li, Xuerong Mao, and George Yin. Explicit numerical approximations for stochastic differential equations in finite and infinite horizons: truncation methods, convergence in p th moment and stability. *IMA Journal of Numerical Analysis*, 39(2):847–892, April 2019. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/39/2/847/4964837`. See corrigendum [1538].

Li:2012:GQA

[1540] Xingjie Helen Li and Mitchell Luskin. A generalized quasinonlocal atomistic-to-continuum coupling method with finite-range interaction. *IMA Journal of Numerical Analysis*, 32(2):373–393, April 2012. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/32/2/373.full.pdf+html`.

Li:2022:LOD

[1541] Xu Li and Hongxing Rui. A low-order divergence-free h(div)-conforming finite element method for Stokes flows. *IMA Journal of Numerical Analysis*, 42 (4):3711–3734, October 2022. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/42/4/3711/6438150.

Li:2025:VDA

[1542] Xuejian Li, Xiaoming He, Wei Gong, and Craig C Douglas. Variational data assimilation with finite-element discretization for second-order parabolic interface equation. *IMA Journal of Numerical Analysis*, 45(1):451–493, January 2025. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/45/1/451/7668340.

Li:2023:CNS

[1543] Yang Li and Bangwei She. On convergence of numerical solutions for the compressible MHD system with weakly divergence-free magnetic field. *IMA Journal of Numerical Analysis*, 43(4):2169–2197, July 2023. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/43/4/2169/6652789.

Li:2023:SCE

[1544] Yun Li, Xuerong Mao, Qingshuo Song, Fuke Wu, and George Yin. Strong convergence of Euler–Maruyama schemes for McKean–Vlasov stochastic differential equations under local Lipschitz conditions of state variables. *IMA Journal of Numerical Analysis*, 43(2):1001–1035, March 2023. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/43/2/1001/6517101.

Li:2022:RBE

[1545] Yuwen Li and Ludmil T. Zikatanov. Residual-based *a posteriori* error estimates of mixed methods for a three-field Biot's consolidation model. *IMA Journal of Numerical Analysis*, 42 (1):620–648, January 2022. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/42/1/620/5920450.

Li:2005:PEO

[1546] Zhengfeng Li, Michael R. Osborne, and Tania Prvan. Parameter estimation of ordinary differential equations. *IMA Journal of Numerical Analysis*, 25(2):264–285, April 2005. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imanum.oupjournals.org/cgi/content/abstract/25/2/264; http://imanum.oupjournals.org/cgi/reprint/25/2/264.

Liang:1999:FEM

[1547] Dong Liang and Bo Zhang. A finite element method for a unidimensional single-phase nonlinear free boundary problem in groundwater flow. *IMA Journal of Numerical Analysis*, 19(4):563–581, October 1999. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_19/Issue_04/190563.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_19/Issue_04/pdf/190563.pdf.

Liang:2020:CMI

[1548] Hui Liang and Hermann Brunner. Collocation methods for integro-differential algebraic equations with index 1. *IMA Journal of Numerical Analysis*, 40(2):850–885, April 2020. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/40/2/850/5365252`.

Liang:2024:GCA

[1549] Hui Liang and Martin Stynes. A general collocation analysis for weakly singular Volterra integral equations with variable exponent. *IMA Journal of Numerical Analysis*, 44(5):2725–2751, September 2024. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/44/5/2725/7274486`.

Liang:2025:SEO

[1550] Qigang Liang, Xuejun Xu, and Shangyou Zhang. On a sharp estimate of overlapping Schwarz methods in $H(\mathrm{curl};\Omega)$ and $H(\mathrm{div};\Omega)$. *IMA Journal of Numerical Analysis*, 45(2): 1009–1027, March 2025. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/45/2/1009/7681961`.

Liang:2022:BAE

[1551] Xin Liang, Zhen-Chen Guo, Tsung-Ming Huang, Tiexiang Li, and Wen-Wei Lin. Bifurcation analysis of the eigenstructure of the discrete single-curl operator in three-dimensional Maxwell's equations with Pasteur media. *IMA Journal of Numerical Analysis*, 42(4):3735–3770, October 2022. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/42/4/3735/6415276`.

Liao:2016:ERS

[1552] Qifeng Liao and David Silvester. Erratum to "Robust stabilized Stokes approximation methods for highly stretched grids". *IMA Journal of Numerical Analysis*, 36(2):984, April 2016. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/36/2/984`. See [1486].

Liesen:2016:PNI

[1553] Jörg Liesen. Pták's nondiscrete induction and its application to matrix iterations. *IMA Journal of Numerical Analysis*, 36(3):1242–1260, July 2016. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/36/3/1242`.

Lietaert:2022:ARA

[1554] Pieter Lietaert, Karl Meerbergen, Javier Pérez, and Bart Vandereycken. Automatic rational approximation and linearization of nonlinear eigenvalue problems. *IMA Journal of Numerical Analysis*, 42(2):1087–1115, April 2022. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/42/2/1087/6139194`.

Lim:2024:NAE

[1555] Dong-Young Lim, Ariel Neufeld, Sotirios Sabanis, and Ying Zhang. Nonasymptotic estimates for TUSLA algorithm for non-convex learning with applications to neural networks with ReLU activation function. *IMA Journal of Numerical Analysis*, 44(3): 1464–1559, May 2024. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/44/3/1464/7192418.

Lin:2005:SEN

[1556] Qun Lin, Lutz Tobiska, and Aihui Zhou. Superconvergence and extrapolation of non-conforming low order finite elements applied to the Poisson equation. *IMA Journal of Numerical Analysis*, 25(1):160–181, January 2005. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imanum.oupjournals.org/cgi/content/abstract/25/1/160; http://imanum.oupjournals.org/cgi/reprint/25/1/160.

Lin:2008:MNM

[1557] Yiqin Lin, Liang Bao, and Yimin Wei. A modified Newton method for solving non-symmetric algebraic Riccati equations arising in transport theory. *IMA Journal of Numerical Analysis*, 28(2):215–224, April 2008. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/cgi/content/abstract/28/2/215; http://imajna.oxfordjournals.org/cgi/reprint/28/2/215.

Liao:2022:ABI

[1558] Hong lin Liao, Bingquan Ji, and Luming Zhang. An adaptive BDF2 implicit time-stepping method for the phase field crystal model. *IMA Journal of Numerical Analysis*, 42(1):649–679, January 2022. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/42/1/649/5974147.

Liao:2024:NEE

[1559] Hong lin Liao and Yuanyuan Kang. L^2 norm error estimates of BDF methods up to fifth-order for the phase field crystal model. *IMA Journal of Numerical Analysis*, 44(4):2138–2164, July 2024. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/44/4/2138/7223959.

Lindner:2021:SCH

[1560] Felix Lindner and Holger Stroot. Strong convergence of a half-explicit Euler scheme for constrained stochastic mechanical systems. *IMA Journal of Numerical Analysis*, 41(4):2562–2607, October 2021. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/41/4/2562/6184144.

Linke:2017:OVE

[1561] A. Linke, C. Merdon, and W. Wollner. Optimal L^2 velocity error estimate for a modified pressure-robust Crouzeix–Raviart Stokes element. *IMA Journal of Numerical Analysis*, 37(1):354–374, January 1, 2017. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL https://academic.oup.com/imajna/article/37/1/354/2669970/Optimal-L2-velocity-error-estimate-for-a-modified.

Linss:2000:AGF

[1562] Torsten Linß. Analysis of a Galerkin finite element method on a Bakhvalov-Shishkin mesh for a linear convection-diffusion problem. *IMA Journal of Numerical Analysis*, 20(4):621–632, October 2000. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_20/Issue_04/200621abs.pdf; http://www3.oup.co.uk/imanum/hdb/Volume_20/Issue_04/pdf/200621.pdf.

Linss:2000:NSI

[1563] Torsten Linß. On the numerical solution of involutive ordinary differential systems. *IMA Journal of Numerical Analysis*, 20(4):561–599, October 2000. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_20/Issue_04/200561abs.pdf; http://www3.oup.co.uk/imanum/hdb/Volume_20/Issue_04/pdf/200561.pdf.

Linss:2004:EEF

[1564] Torsten Linss. Error expansion for a first-order upwind difference scheme applied to a model convection-diffusion problem. *IMA Journal of Numerical Analysis*, 24(2):239–253, April 2004. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_24/Issue_02/240239.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_24/Issue_02/pdf/240239.pdf.

Linss:2009:LAM

[1565] Torsten Linß and Niall Madden. Layer-adapted meshes for a linear system of coupled singularly perturbed reaction–diffusion problems. *IMA Journal of Numerical Analysis*, 29(1):109–125, January 2009. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Linss:2024:UAM

[1566] Torsten Linß, Martin Ossadnik, and Goran Radojev. A unified approach to maximum-norm *a posteriori* error estimation for second-order time discretizations of parabolic equations. *IMA Journal of Numerical Analysis*, 44(3):1644–1659, May 2024. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/44/3/1644/7202282.

Lipman:2010:APS

[1567] Yaron Lipman and David Levin. Approximating piecewise-smooth functions. *IMA Journal of Numerical Analysis*, 30(4):1159–1183, October 2010. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/30/4/1159.full.pdf+html.

Liu:2009:TSS

[1568] Fang Liu, Niall Madden, Martin Stynes, and Aihui Zhou. A two-scale sparse grid method for a singularly perturbed reaction–diffusion problem in two dimensions. *IMA Journal of Numerical Analysis*, 29(4):986–1007, October 2009. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/cgi/content/abstract/29/4/986; http://imajna.oxfordjournals.org/cgi/reprint/29/4/986`.

Liu:2019:AMP

[1569] Hailiang Liu, Yunqing Huang, Wenying Lu, and Nianyu Yi. On accuracy of the mass-preserving DG method to multi-dimensional Schrödinger equations. *IMA Journal of Numerical Analysis*, 39(2):760–791, April 2019. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/39/2/760/4959865`.

Liu:2024:CRI

[1570] Hongwei Liu, Ting Wang, and Zexian Liu. Convergence rate of inertial forward-backward algorithms based on the local error bound condition. *IMA Journal of Numerical Analysis*, 44(2):1003–1028, March 2024. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/44/2/1003/7179403`.

Liu:2006:MSR

[1571] Hongyu Liu and Kai Zhang. Multi-symplectic Runge–Kutta-type methods for Hamiltonian wave equations. *IMA Journal of Numerical Analysis*, 26(2):252–271, April 2006. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imanum.oxfordjournals.org/cgi/content/abstract/26/2/252; http://imanum.oxfordjournals.org/cgi/reprint/26/2/252`.

Liu:2013:MPS

[1572] Jie Liu. A mass-preserving splitting scheme for the stochastic Schrödinger equation with multiplicative noise. *IMA Journal of Numerical Analysis*, 33(4):1469–1479, October 2013. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/33/4/1469.full.pdf+html`.

Liu:2023:AMD

[1573] Kaifang Liu, Dietmar Gallistl, Matthias Schlottbom, and J J W van der Vegt. Analysis of a mixed discontinuous Galerkin method for the time-harmonic Maxwell equations with minimal smoothness requirements. *IMA Journal of Numerical Analysis*, 43(4):2320–2351, July 2023. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/43/4/2320/6668830`.

Liu:2025:MIM

[1574] Kang Liu and Laurent Pfeiffer. A mesh-independent method for second-order potential mean field games. *IMA Journal of Numerical Analysis*, 45(2):1226–1266, March 2025. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/45/2/1226/7759639`.

Liu:1990:SMN

[1575] M. Z. Liu and M. N. Spijker. The stability of the θ-methods in the numerical solution of delay differential equations. *IMA Journal of Numerical Analysis*, 10(1):31–48, January 1990. CODEN IJ-

NADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Liu:2020:EPM

[1576] Tianxiang Liu, Zhaosong Lu, Xiaojun Chen, and Yu-Hong Dai. An exact penalty method for semidefinite-box-constrained low-rank matrix optimization problems. *IMA Journal of Numerical Analysis*, 40(1):563–586, January 2020. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/40/1/563/5142420`.

Liu:2018:SES

[1577] Xiaowei Liu, Martin Stynes, and Jin Zhang. Supercloseness of edge stabilization on Shishkin rectangular meshes for convection–diffusion problems with exponential layers. *IMA Journal of Numerical Analysis*, 38(4):2105–2122, October 16, 2018. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/38/4/2105/4108203`.

Liu:2022:LFF

[1578] Yujie Liu and Junping Wang. A locking-free P_0 finite element method for linear elasticity equations on polytopal partitions. *IMA Journal of Numerical Analysis*, 42(4):3464–3498, October 2022. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/42/4/3464/6338335`.

Liu:2020:SAM

[1579] Zhihui Liu and Zhonghua Qiao. Strong approximation of monotone stochastic partial differential equations driven by white noise. *IMA Journal of Numerical Analysis*, 40(2):1074–1093, April 2020. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/40/2/1074/5262676`.

Loach:1991:BLS

[1580] P. D. Loach and A. J. Wathen. On the best least squares approximation of continuous functions using linear splines with free knots. *IMA Journal of Numerical Analysis*, 11(3):393–409, 1991. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Lombardi:2011:IEE

[1581] Ariel L. Lombardi. Interpolation error estimates for edge elements on anisotropic meshes. *IMA Journal of Numerical Analysis*, 31(4):1683–1712, October 2011. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/31/4/1683.full.pdf+html`.

Lopez:1983:SAB

[1582] Luciano Lopez. Stability and asymptotic behaviour for the numerical solution of a reaction-diffusion model for a deterministic diffusive epidemic. *IMA Journal of Numerical Analysis*, 3(3):341–351, 1983. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Lopez-Fernandez:2013:GCQ

[1583] Maria Lopez-Fernandez and Stefan Sauter. Generalized convolution quadrature with variable time stepping. *IMA Journal of Numeri-*

cal Analysis, 33(4):1156–1175, October 2013. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/33/4/1156.full.pdf+html.

Lopez-Gomez:1992:SSM

[1584] J. López-Gómez, J. C. Eilbeck, M. Molina, and K. N. Duncan. Structure of solution manifolds in a strongly coupled elliptic system. *IMA Journal of Numerical Analysis*, 12(3):405–428, 1992. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). IMA Conference on Dynamics of Numerics and Numerics of Dynamics (Bristol, 1990).

LopezMarcos:1988:SCN

[1585] J. C. López Marcos and J. M. Sanz-Serna. Stability and convergence in numerical analysis. III. Linear investigation of nonlinear stability. *IMA Journal of Numerical Analysis*, 8(1):71–84, 1988. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

LopezMarcos:1994:NAP

[1586] M. Á. López Marcos. Numerical analysis of pseudospectral methods for the Kuramoto–Sivashinsky equation. *IMA Journal of Numerical Analysis*, 14(2):233–242, 1994. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Lorcher:2007:LWT

[1587] Frieder Lörcher and Claus-Dieter Munz. Lax–Wendroff-type schemes of arbitrary order in several space dimensions. *IMA Journal of Numerical Analysis*, 27(3):593–615, July 2007. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/cgi/content/abstract/27/3/593; http://imajna.oxfordjournals.org/cgi/reprint/27/3/593.

Lord:2004:NSS

[1588] Gabriel J. Lord and Jacques Rougemont. A numerical scheme for stochastic PDEs with Gevrey regularity. *IMA Journal of Numerical Analysis*, 24(4):587–604, October 2004. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imanum.oupjournals.org/cgi/content/abstract/24/4/587; http://imanum.oupjournals.org/cgi/reprint/24/4/587.

Lord:2013:SEI

[1589] Gabriel J. Lord and Antoine Tambue. Stochastic exponential integrators for the finite element discretization of SPDEs for multiplicative and additive noise. *IMA Journal of Numerical Analysis*, 33(2):515–543, April 2013. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/33/2/515.full.pdf+html.

Lu:1993:SBM

[1590] Lian Hua Lu. The stability of the block θ-methods. *IMA Journal of Numerical Analysis*, 13(1):101–114, 1993. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Lu:2022:HMH

[1591] Peipei Lu, Andreas Rupp, and Guido

Kanschat. Homogeneous multigrid for HDG. *IMA Journal of Numerical Analysis*, 42(4):3135–3153, October 2022. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/42/4/3135/6323813`.

Lu:2024:HMH

[1592] Peipei Lu, Wei Wang, Guido Kanschat, and Andreas Rupp. Homogeneous multigrid for HDG applied to the Stokes equation. *IMA Journal of Numerical Analysis*, 44(5):3124–3152, September 2024. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/44/5/3124/7326023`.

Lube:2002:SFE

[1593] Gert Lube and Maxim A. Olshanskii. Stable finite-element calculation of incompressible flows using the rotation form of convection. *IMA Journal of Numerical Analysis*, 22(3):437–461, July 2002. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://www3.oup.co.uk/imanum/hdb/Volume_22/Issue_03/220437.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_22/Issue_03/pdf/220437.pdf`.

Lubich:1983:SLM

[1594] Ch. Lubich. On the stability of linear multistep methods for Volterra convolution equations. *IMA Journal of Numerical Analysis*, 3(4):439–465, 1983. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Lubich:1986:SAC

[1595] Ch. Lubich. A stability analysis of convolution quadratures for Abel–Volterra integral equations. *IMA Journal of Numerical Analysis*, 6(1):87–101, 1986. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Lubich:1987:FLM

[1596] Ch. Lubich. Fractional linear multistep methods for Abel–Volterra integral equations of the first kind. *IMA Journal of Numerical Analysis*, 7(1):97–106, 1987. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Lubich:1995:LIT

[1597] Ch. Lubich and A. Ostermann. Linearly implicit time discretization of non-linear parabolic equations. *IMA Journal of Numerical Analysis*, 15(4):555–583, 1995. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Lubich:2013:BDT

[1598] Christian Lubich, Dhia Mansour, and Chandrasekhar Venkataraman. Backward difference time discretization of parabolic differential equations on evolving surfaces. *IMA Journal of Numerical Analysis*, 33(4):1365–1385, October 2013. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/33/4/1365.full.pdf+html`.

Lucchi:2023:SST

[1599] Aurelien Lucchi and Jonas Kohler. A sub-sampled tensor method for non-convex optimization. *IMA Journal* *of Numerical Analysis*, 43(5):2856–2891, September 2023. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/43/5/2856/6748196.

Ludwig:2016:CSF

[1600] Lars Ludwig and Hans-Goerg Roos. Convergence and supercloseness of a finite element method for a singularly perturbed convection-diffusion problem on an L-shaped domain. *IMA Journal of Numerical Analysis*, 36(3):1261–1280, July 2016. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/36/3/1261.

Ludwig:2014:FES

[1601] Lars Ludwig and Hans-Görg Roos. Finite element superconvergence on Shishkin meshes for convection-diffusion problems with corner singularities. *IMA Journal of Numerical Analysis*, 34(2):782–799, April 2014. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/34/2/782.full.pdf+html.

Lui:2009:LNO

[1602] S. H. Lui. A Lions non-overlapping domain decomposition method for domains with an arbitrary interface. *IMA Journal of Numerical Analysis*, 29(2):332–349, April 2009. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/cgi/content/abstract/29/2/332; http://imajna.oxfordjournals.org/cgi/reprint/29/2/332.

Lukacova-Medvidova:2025:CEE

[1603] Mária Lukáčová-Medviďová, Bangwei She, and Yuhuan Yuan. Convergence and error estimates of a penalization finite volume method for the compressible Navier–Stokes system. *IMA Journal of Numerical Analysis*, 45(2):1054–1101, March 2025. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/45/2/1054/7681963.

Lund:1989:SSG

[1604] John Lund, Kenneth L. Bowers, and Kelly M. McArthur. Symmetrization of the sinc-Galerkin method with block techniques for elliptic equations. *IMA Journal of Numerical Analysis*, 9(1):29–46, 1989. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Lund:1984:SCM

[1605] John R. Lund and Bruce V. Riley. A sinc-collocation method for the computation of the eigenvalues of the radial Schrödinger equation. *IMA Journal of Numerical Analysis*, 4(1):83–98, January 1984. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Lyche:1988:DRS

[1606] T. Lyche and K. Mørken. A data-reduction strategy for splines with applications to the approximation of functions and data. *IMA Journal of Numerical Analysis*, 8(2):185–208, 1988.

CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Lyness:1989:ILR

[1607] J. N. Lyness. An introduction to lattice rules and their generator matrices. *IMA Journal of Numerical Analysis*, 9(3):405–419, 1989. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Ma:2018:EEC

[1608] Chupeng Ma, Liqun Cao, and Yanping Lin. Error estimates of Crank–Nicolson Galerkin method for the time-dependent Maxwell–Schrödinger equations under the Lorentz gauge. *IMA Journal of Numerical Analysis*, 38(4): 2074–2104, October 16, 2018. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/38/4/2074/4321721`.

Ma:2022:AGF

[1609] Chupeng Ma, Yongwei Zhang, and Liqun Cao. Analysis of a Galerkin finite element method for the Maxwell–Schrödinger system under temporal gauge. *IMA Journal of Numerical Analysis*, 42(4):3609–3631, October 2022. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/42/4/3609/6411794`.

Ma:1987:FPM

[1610] He Ping Ma and Ben Yu Guo. The Fourier pseudospectral method for two-dimensional vorticity equations. *IMA Journal of Numerical Analysis*, 7(1): 47–60, 1987. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Ma:2006:PEE

[1611] Jingtang Ma and Hermann Brunner. A posteriori error estimates of discontinuous Galerkin methods for non-standard Volterra integro-differential equations. *IMA Journal of Numerical Analysis*, 26(1):78–95, January 2006. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imanum.oxfordjournals.org/cgi/content/abstract/26/1/78`; `http://imanum.oxfordjournals.org/cgi/reprint/26/1/78`.

Ma:2017:UMN

[1612] K. Ma and P. A. Forsyth. An unconditionally monotone numerical scheme for the two-factor uncertain volatility model. *IMA Journal of Numerical Analysis*, 37(2):905–944, April 2017. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `https://academic.oup.com/imajna/article/37/2/905/2669987/An-unconditionally-monotone-numerical-scheme-for`.

Ma:2018:WEA

[1613] Lina Ma, Jie Shen, Li-Lian Wang, and Zhiguo Yang. Wavenumber explicit analysis for time-harmonic Maxwell equations in a spherical shell and spectral approximations. *IMA Journal of Numerical Analysis*, 38(2):810–851, April 18, 2018. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/38/2/810/3844800`.

Mackenzie:2011:ASC

[1614] J. A. Mackenzie and A. Madzvamuse. Analysis of stability and convergence of finite-difference methods for a reaction–diffusion problem on a one-dimensional growing domain. *IMA Journal of Numerical Analysis*, 31(1):212–232, January 2011. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/31/1/212.full.pdf+html.

Mackenzie:2007:ASC

[1615] J. A. Mackenzie and W. R. Mekwi. An analysis of stability and convergence of a finite-difference discretization of a model parabolic PDE in 1D using a moving mesh. *IMA Journal of Numerical Analysis*, 27(3):507–528, July 2007. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/cgi/content/abstract/27/3/507; http://imajna.oxfordjournals.org/cgi/reprint/27/3/507.

Mackenzie:2012:USS

[1616] J. A. Mackenzie and W. R. Mekwi. An unconditionally stable second-order accurate ale-fem scheme for two-dimensional convection-diffusion problems. *IMA Journal of Numerical Analysis*, 32(3):888–905, July 2012. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/32/3/888.full.pdf+html.

Mackenzie:1999:UCA

[1617] John Mackenzie. Uniform convergence analysis of an upwind finite-difference approximation of a convection-diffusion boundary value problem on an adaptive grid. *IMA Journal of Numerical Analysis*, 19(2):233–249, April 1999. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_19/Issue_02/190233.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_19/Issue_02/pdf/190233.pdf.

Madden:2003:UCN

[1618] Journal Niall Madden and Martin Stynes. A uniformly convergent numerical method for a coupled system of two singularly perturbed linear reaction-diffusion problems. *IMA Journal of Numerical Analysis*, 23(4):627–644, October 2003. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_23/Issue_04/230627.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_23/Issue_04/pdf/230627.pdf.

Maes:2006:HBP

[1619] Jan Maes and Adhemar Bultheel. A hierarchical basis preconditioner for the biharmonic equation on the sphere. *IMA Journal of Numerical Analysis*, 26(3):563–583, July 2006. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://comjnl.oxfordjournals.org/cgi/content/abstract/26/3/563; http://comjnl.oxfordjournals.org/cgi/reprint/26/3/563.

Maeztu:1989:SCF

[1620] J. I. Maeztu. On symmetric cubature formulae for planar regions. *IMA Journal of Numerical Analysis*, 9(2):167–183, 1989. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Mahata:2023:NDE

[1621] Shantiram Mahata and Rajen Kumar Sinha. Nonsmooth data error estimates of the L1 scheme for subdiffusion equations with positive-type memory term. *IMA Journal of Numerical Analysis*, 43(3):1742–1778, May 2023. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/43/3/1742/6643288`.

Maier:2023:EAF

[1622] Bernhard Maier. Error analysis for full discretizations of quasilinear wave-type equations with two variants of the implicit midpoint rule. *IMA Journal of Numerical Analysis*, 43(2):1149–1180, March 2023. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/43/2/1149/6590236`.

Maierhofer:2023:RMC

[1623] G. Maierhofer, A. Iserles, and N. Peake. Recursive moment computation in Filon methods and application to high-frequency wave scattering in two dimensions. *IMA Journal of Numerical Analysis*, 43(6):3169–3211, November 2023. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/43/6/3169/6795915`.

Maire:2006:MCM

[1624] Sylvain Maire and Denis Talay. On a Monte Carlo method for neutron transport criticality computations. *IMA Journal of Numerical Analysis*, 26(4):657–685, October 2006. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/cgi/content/abstract/26/4/657`; `http://imajna.oxfordjournals.org/cgi/reprint/26/4/657`.

Maity:2021:DGF

[1625] Ruma Rani Maity, Apala Majumdar, and Neela Nataraj. Discontinuous Galerkin finite element methods for the Landau–de Gennes minimization problem of liquid crystals. *IMA Journal of Numerical Analysis*, 41(2):1130–1163, April 2021. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/41/2/1130/5858217`.

Majee:2022:EPE

[1626] Ananta K. Majee and Andreas Prohl. *A posteriori* error estimation and space-time adaptivity for a linear stochastic PDE with additive noise. *IMA Journal of Numerical Analysis*, 42(2):1526–1567, April 2022. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/42/2/1526/6180121`.

Makrelov:1985:CTM

[1627] I. Makrelov and Kh. Semerdzhiev. On the convergence of two methods for the simultaneous finding of all roots of exponential equations. *IMA Journal of Numerical Analysis*, 5(2):191–200, 1985. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Makridakis:1995:HOF

[1628] Charalambos G. Makridakis. High-order fully discrete methods for the equations of elastic wave propagation with absorbing boundary conditions. *IMA Journal of Numerical Analysis*, 15(3):377–404, 1995. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Makroglou:1982:HMN

[1629] A. Makroglou. Hybrid methods in the numerical solution of Volterra integro-differential equations. *IMA Journal of Numerical Analysis*, 2(1):21–35, January 1982. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). See errata [1630].

Makroglou:1983:EHM

[1630] A. Makroglou. Errata: "Hybrid methods in the numerical solution of Volterra integro-differential equations" [IMA J. Numer. Anal. **2** (1982), no. 1, 21–35; MR 83d:65352]. *IMA Journal of Numerical Analysis*, 3(3):381–382, 1983. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). See [1629].

Malajovich:2023:CSP

[1631] Gregorio Malajovich. Complexity of sparse polynomial solving 2: renormalization. *IMA Journal of Numerical Analysis*, 43(4):2001–2114, July 2023. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/43/4/2001/6712216`.

Malek:1995:PCM

[1632] Alaeddin Malek and Timothy N. Phillips. Pseudospectral collocation methods for fourth-order differential equations. *IMA Journal of Numerical Analysis*, 15(4):523–553, 1995. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Malkmus:2018:GSM

[1633] T. Malkmus, M. Ruzicka, S. Eckstein, and I. Toulopoulos. Generalizations of SIP methods to systems with p-structure. *IMA Journal of Numerical Analysis*, 38(3):1420–1451, July 17, 2018. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/38/3/1420/4108120`.

Maltese:2021:IMS

[1634] David Maltese and Antonín Novotný. Implicit MAC scheme for compressible Navier–Stokes equations: low Mach asymptotic error estimates. *IMA Journal of Numerical Analysis*, 41(1):122–163, January 2021. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/41/1/122/5824923`.

Manh:2021:HIU

[1635] Phung Van Manh. Hermite interpolation on the unit sphere and limits of Lagrange projectors. *IMA*

Journal of Numerical Analysis, 41 (2):1441–1464, April 2021. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/41/2/1441/5837336`.

Manneback:1985:MAG

[1636] P. E. Manneback, Ch. Murigande, and Ph. L. Toint. A modification of an algorithm by Golub and Plemmons for large linear least squares in the context of Doppler positioning. *IMA Journal of Numerical Analysis*, 5(2):221–233, 1985. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Mannel:2023:CBM

[1637] Florian Mannel. On the convergence of Broyden's method and some accelerated schemes for singular problems. *IMA Journal of Numerical Analysis*, 43 (1):414–442, January 2023. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/43/1/414/6503972`.

Manni:1997:MIO

[1638] Carla Manni and Paul Sablonnière. Monotone interpolation of order 3 by C^2 cubic splines. *IMA Journal of Numerical Analysis*, 17(2): 305–320, April 1997. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://www3.oup.co.uk/imanum/hdb/Volume_17/Issue_02/170305.sgm.abs.html`.

Mannikko:1994:RMI

[1639] T. Männikkö, P. Neittaanmäki, and D. Tiba. A rapid method for the identification of the free boundary in two-phase Stefan problems. *IMA Journal of Numerical Analysis*, 14(3):411–420, 1994. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Manoranjan:1993:SET

[1640] V. S. Manoranjan and R. Drake. A spectrum enveloping technique for convection-diffusion computations. *IMA Journal of Numerical Analysis*, 13(3):431–443, 1993. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Manouzi:2001:MFE

[1641] H. Manouzi and M. Farhloul. Mixed finite element analysis of a non-linear three-fields Stokes model. *IMA Journal of Numerical Analysis*, 21(1):143–164, January 2001. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://www3.oup.co.uk/imanum/hdb/Volume_21/Issue_01/210143abs.pdf`; `http://www3.oup.co.uk/imanum/hdb/Volume_21/Issue_01/pdf/210143.pdf`.

Manouzi:2004:MFE

[1642] Hassan Manouzi and Thomas Gorm Theting. Mixed finite element approximation for the stochastic pressure equation of Wick type. *IMA Journal of Numerical Analysis*, 24(4):605–634, October 2004. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imanum.oupjournals.org/cgi/content/abstract/24/4/605`; `http://imanum.oupjournals.org/cgi/reprint/24/4/605`.

Marazzina:2008:SPD

[1643] Daniele Marazzina. Stability properties of discontinuous Galerkin methods for 2D elliptic problems. *IMA Journal of Numerical Analysis*, 28(3):552–579, July 2008. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/cgi/content/abstract/28/3/552; http://imajna.oxfordjournals.org/cgi/reprint/28/3/552`.

Marin:2014:CTR

[1644] Oana Marin, Olof Runborg, and Anna-Karin Tornberg. Corrected trapezoidal rules for a class of singular functions. *IMA Journal of Numerical Analysis*, 34(4):1509–1540, October 2014. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/34/4/1509`.

Marinov:1986:TEI

[1645] Corneliu Marinov. Truncation errors for infinite linear systems. *IMA Journal of Numerical Analysis*, 6(1):51–63, 1986. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Markham:1990:CGT

[1646] G. Markham. Conjugate gradient type methods for indefinite, asymmetric, and complex systems. *IMA Journal of Numerical Analysis*, 10(2):155–170, 1990. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Marletta:2010:NDM

[1647] Marco Marletta. Neumann–Dirichlet maps and analysis of spectral pollution for non-self-adjoint elliptic PDEs with real essential spectrum. *IMA Journal of Numerical Analysis*, 30(4):917–939, October 2010. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/30/4/917.full.pdf+html`.

Marquez:2015:SCF

[1648] Antonio Márquez, Salim Meddahi, and Francisco-Javier Sayas. Strong coupling of finite element methods for the Stokes–Darcy problem. *IMA Journal of Numerical Analysis*, 35(2):969–988, April 2015. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/35/2/969`.

Marsden:1984:CSI

[1649] M. J. Marsden. Cubic X-spline interpolants. *IMA Journal of Numerical Analysis*, 4(2):203–207, April 1984. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Martins:1995:EBM

[1650] M. Madalena Martins and M. Estela Trigo. An error bound for the modified successive overrelaxation method. *IMA Journal of Numerical Analysis*, 15(4):461–473, 1995. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Maset:2013:SPE

[1651] S. Maset and M. Zennaro. Stability properties of explicit exponential Runge–Kutta methods. *IMA Journal of Numerical Analysis*, 33(1):111–135, January 2013. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/33/1/111.full.pdf+html`.

Mason:1981:NMI

[1652] J. C. Mason. Near-minimax interpolation by a polynomial in z and z^{-1} on a circular annulus. *IMA Journal of Numerical Analysis*, 1(3):359–367, 1981. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Mason:1983:NBA

[1653] J. C. Mason. Near-best L_p approximations by real and complex Chebyshev series. *IMA Journal of Numerical Analysis*, 3(4):493–504, 1983. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Mason:1984:NBA

[1654] J. C. Mason and B. L. Chalmers. Near-best L_p approximations by Fourier, Taylor and Laurent series. *IMA Journal of Numerical Analysis*, 4(1):1–8, January 1984. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Massei:2024:NDC

[1655] Stefano Massei and Leonardo Robol. A nested divide-and-conquer method for tensor Sylvester equations with positive definite hierarchically semiseparable coefficients. *IMA Journal of Numerical Analysis*, 44(6):3482–3519, November 2024. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/44/6/3482/7459761`.

Mastroianni:1994:NIB

[1656] G. Mastroianni and G. Monegato. Nyström interpolants based on the zeros of Legendre polynomials for a noncompact integral operator equation. *IMA Journal of Numerical Analysis*, 14(1):81–95, 1994. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Mastroianni:1997:NIB

[1657] G. Mastroianni and G. Monegato. Nyström interpolants based on zeros of Laguerre polynomials for some Weiner-Hopf equations. *IMA Journal of Numerical Analysis*, 17(4):621–642, October 1997. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://www3.oup.co.uk/imanum/hdb/Volume_17/Issue_04/170621.sgm.abs.html`.

Mastroianni:2009:SNM

[1658] Giuseppe Mastroianni and Gradimir V. Milovanovic. Some numerical methods for second-kind Fredholm integral equations on the real semiaxis. *IMA Journal of Numerical Analysis*, 29(4):1046–1066, October 2009. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/cgi/content/abstract/29/4/1046`; `http://imajna.oxfordjournals.org/cgi/reprint/29/4/1046`.

Mastroianni:2014:GQR

[1659] Giuseppe Mastroianni, Incoronata Notarangelo, and Gradimir V. Milovanović. Gaussian quadrature rules with an exponential weight on the real semiaxis. *IMA Journal of Numerical Analysis*, 34(4):1654–1685, October 2014. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.`

oxfordjournals.org/content/34/4/1654.

Mastronardi:2015:SBS

[1660] Nicola Mastronardi and Paul Van Dooren. A structurally backward stable algorithm for solving the indefinite least squares problem with equality constraints. *IMA Journal of Numerical Analysis*, 35(1):107–132, January 2015. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/35/1/107.

Mastronardi:2021:QSP

[1661] Nicola Mastronardi and Paul Van Dooren. On QZ steps with perfect shifts and computing the index of a differential–algebraic equation. *IMA Journal of Numerical Analysis*, 41(4):2516–2529, October 2021. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/41/4/2516/5892042.

Matos:1990:CAM

[1662] Ana C. Matos. A convergence acceleration method based on a good estimation of the absolute value of the error. *IMA Journal of Numerical Analysis*, 10(2):243–251, 1990. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Matos:2000:LDO

[1663] Ana C. Matos. Linear difference operators and acceleration methods. *IMA Journal of Numerical Analysis*, 20(3):359–388, July 2000. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_20/Issue_03/200359.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_20/Issue_03/pdf/200359.pdf.

Mattar:2023:PTM

[1664] Wael Mattar and Nir Sharon. Pyramid transform of manifold data via subdivision operators. *IMA Journal of Numerical Analysis*, 43(1):387–413, January 2023. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/43/1/387/6469200.

Mattheij:1992:DBS

[1665] R. M. M. Mattheij. Decoupling of bidiagonal systems involving singular blocks. *IMA Journal of Numerical Analysis*, 12(2):301–317, 1992. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Matthies:2015:LPT

[1666] Gunar Matthies and Lutz Tobiska. Local projection type stabilization applied to inf-sup stable discretizations of the Oseen problem. *IMA Journal of Numerical Analysis*, 35(1):239–269, January 2015. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/35/1/239.

Mazya:1996:AAU

[1667] Vladimir Maz′ya and Gunther Schmidt. On approximate approximations using Gaussian kernels. *IMA Journal of Numerical Analysis*, 16(1):13–29, January 1996. CODEN IJNADH. ISSN 0272-4979 (print), 1464-

3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_16/Issue_01/160013.sgm.abs.html.

McKee:1983:DMB

[1668] S. McKee. Discretization methods and block isoclinal matrices. *IMA Journal of Numerical Analysis*, 3(4):467–491, 1983. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

McKee:2000:ETM

[1669] Sean McKee, Tao Tang, and Teresa Diogo. An Euler-type method for two-dimensional Volterra integral equations of the first kind. *IMA Journal of Numerical Analysis*, 20(3):423–440, July 2000. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_20/Issue_03/200423.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_20/Issue_03/pdf/200423.pdf.

McLachlan:2003:SDP

[1670] Journal Robert I. McLachlan. Spatial discretization of partial differential equations with integrals. *IMA Journal of Numerical Analysis*, 23(4):645–664, October 2003. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_23/Issue_04/230645.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_23/Issue_04/pdf/230645.pdf.

McLachlan:2015:CLP

[1671] Robert I. McLachlan, Klas Modin, and Olivier Verdier. Collective Lie–Poisson integrators on R^3. *IMA Journal of Numerical Analysis*, 35(2):546–560, April 2015. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/35/2/546.

McLean:1989:AEE

[1672] W. McLean. Asymptotic error expansions for numerical solutions of integral equations. *IMA Journal of Numerical Analysis*, 9(3):373–384, 1989. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

McLean:1994:FDS

[1673] W. McLean and I. H. Sloan. A fully discrete and symmetric boundary element method. *IMA Journal of Numerical Analysis*, 14(3):311–345, 1994. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

McLean:2004:TDE

[1674] William McLean and Vidar Thomée. Time discretization of an evolution equation via Laplace transforms. *IMA Journal of Numerical Analysis*, 24(3):439–463, July 2004. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_24/Issue_03/240439.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_24/Issue_03/pdf/240439.pdf.

McLean:2010:MNE

[1675] William McLean and Vidar Thomée. Maximum-norm error analysis of a numerical solution via Laplace transformation and quadrature of a fractional-order evolution equation. *IMA Journal of Numerical Analysis*, 30(1):208–230, January 2010. CODEN IJNADH.

ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/cgi/content/abstract/30/1/208; http://imajna.oxfordjournals.org/cgi/reprint/30/1/208`.

McLeod:1982:GDD

[1676] R. J. Y. McLeod and J. M. Sanz-Serna. Geometrically derived difference formulae for the numerical integration of trajectory problems. *IMA Journal of Numerical Analysis*, 2(3):357–370, July 1982. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Meddahi:1999:MDM

[1677] Salim Meddahi and Antonio Márquez. A multidomain discretization method with local mesh refinement. *IMA Journal of Numerical Analysis*, 19(2): 251–271, April 1999. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://www3.oup.co.uk/imanum/hdb/Volume_19/Issue_02/190251.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_19/Issue_02/pdf/190251.pdf`.

Meddahi:2015:FEA

[1678] Salim Meddahi, David Mora, and Rodolfo Rodríguez. A finite element analysis of a pseudostress formulation for the Stokes eigenvalue problem. *IMA Journal of Numerical Analysis*, 35(2):749–766, April 2015. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/35/2/749`.

Meek:1982:TST

[1679] P. C. Meek and J. Norbury. Two-stage, two-level finite difference schemes for nonlinear parabolic equations. *IMA Journal of Numerical Analysis*, 2(3): 335–356, July 1982. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Meerbergen:2016:IRR

[1680] Karl Meerbergen. An implicitly restarted rational Krylov strategy for Lyapunov inverse iteration. *IMA Journal of Numerical Analysis*, 36(2):655–674, April 2016. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/36/2/655`.

Meerbergen:2017:CPA

[1681] Karl Meerbergen, Emre Mengi, Wim Michiels, and Roel Van Beeumen. Computation of pseudospectral abscissa for large-scale nonlinear eigenvalue problems. *IMA Journal of Numerical Analysis*, 37(4):1831–1863, October 1, 2017. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `https://academic.oup.com/imajna/article/37/4/1831/2894467`. See erratum [1682].

Meerbergen:2018:ECP

[1682] Karl Meerbergen, Emre Mengi, Wim Michiels, and Roel Van Beeumen. Erratum to: “Computation of pseudospectral abscissa for large-scale nonlinear eigenvalue problems”. *IMA Journal of Numerical Analysis*, 38 (3):1598, July 17, 2018. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/38/3/1598/4769650. See [1681].

Meerbergen:1996:MTC

[1683] Karl Meerbergen and Dirk Roose. Matrix transformations for computing rightmost eigenvalues of large sparse non-symmetric eigenvalue problems. *IMA Journal of Numerical Analysis*, 16(3):297–346, July 1996. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_16/Issue_03/160297.sgm.abs.html.

Melenk:2014:QOP

[1684] J. M. Melenk, H. Rezaijafari, and B. Wohlmuth. Quasi-optimal a priori estimates for fluxes in mixed finite element methods and an application to the Stokes–Darcy coupling. *IMA Journal of Numerical Analysis*, 34(1): 1–27, January 2014. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/34/1/1.full.pdf+html.

Melenk:2013:REC

[1685] J. M. Melenk, C. Xenophontos, and L. Oberbroeckling. Robust exponential convergence of hp FEM for singularly perturbed reaction-diffusion systems with multiple scales. *IMA Journal of Numerical Analysis*, 33(2):609–628, April 2013. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/33/2/609.full.pdf+html.

Melenk:1997:REC

[1686] Jens Markus Melenk. On the robust exponential convergence of *hp* finite element methods for problems with boundary layers. *IMA Journal of Numerical Analysis*, 17(4):577–601, October 1997. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_17/Issue_04/170577.sgm.abs.html.

Melenk:2021:HFF

[1687] Jens Markus Melenk and Alexander Rieder. hp-FEM for the fractional heat equation. *IMA Journal of Numerical Analysis*, 41(1):412–454, January 2021. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/41/1/412/5771305.

Melenk:2023:ECD

[1688] Jens Markus Melenk and Alexander Rieder. An exponentially convergent discretization for space-time fractional parabolic equations using *hp*-FEM. *IMA Journal of Numerical Analysis*, 43(4):2352–2376, July 2023. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/43/4/2352/6759787.

Melenk:1999:FEM

[1689] Jens Markus Melenk and Christoph Schwab. An *hp* finite element method for convection-diffusion problems in one dimension. *IMA Journal of Numerical Analysis*, 19(3): 425–453, July 1999. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.

oup.co.uk/imanum/hdb/Volume_19/Issue_03/190425.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_19/Issue_03/pdf/190425.pdf.

Meng:2023:MVE

[1690] Jian Meng, Gang Wang, and Liquan Mei. Mixed virtual element method for the Helmholtz transmission eigenvalue problem on polytopal meshes. *IMA Journal of Numerical Analysis*, 43(3):1685–1717, May 2023. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/43/3/1685/6590237.

Meng:2018:DDE

[1691] Xiong Meng and Jennifer K. Ryan. Divided difference estimates and accuracy enhancement of discontinuous Galerkin methods for nonlinear symmetric systems of hyperbolic conservation laws. *IMA Journal of Numerical Analysis*, 38(1):125–155, January 25, 2018. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/38/1/125/3038023.

Meng:2012:SLD

[1692] Xiong Meng, Chi-Wang Shu, and Boying Wu. Superconvergence of the local discontinuous Galerkin method for linear fourth-order time-dependent problems in one space dimension. *IMA Journal of Numerical Analysis*, 32(4):1294–1328, October 2012. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/32/4/1294.full.pdf+html.

Mengi:2005:ACP

[1693] Emre Mengi and Michael L. Overton. Algorithms for the computation of the pseudospectral radius and the numerical radius of a matrix. *IMA Journal of Numerical Analysis*, 25(4):648–669, October 2005. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imanum.oxfordjournals.org/cgi/reprint/25/4/648.

Messaoudi:1995:SPR

[1694] A. Messaoudi. Some properties of the recursive projection and interpolation algorithms. *IMA Journal of Numerical Analysis*, 15(3):307–318, 1995. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Metzger:2022:CFE

[1695] Stefan Metzger. A convergent finite element scheme for a fourth-order liquid crystal model. *IMA Journal of Numerical Analysis*, 42(1):440–486, January 2022. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/42/1/440/5934906.

Metzger:2023:CSS

[1696] Stefan Metzger. A convergent SAV scheme for Cahn–Hilliard equations with dynamic boundary conditions. *IMA Journal of Numerical Analysis*, 43(6):3593–3627, November 2023. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/43/6/3593/6984971.

Meyer:2020:PEA

[1697] Fabian Meyer, Christian Rohde, and Jan Giesselmann. A posteriori error analysis for random scalar conservation laws using the stochastic Galerkin method. *IMA Journal of Numerical Analysis*, 40(2):1094–1121, April 2020. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/40/2/1094/5316650.

Miao:2023:NSM

[1698] Borui Miao, Giovanni Russo, and Zhennan Zhou. A novel spectral method for the semiclassical Schrödinger equation based on the Gaussian wave-packet transform. *IMA Journal of Numerical Analysis*, 43(2):1221–1261, March 2023. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/43/2/1221/6575863. See correction [111].

Micheletti:2008:UBA

[1699] Stefano Micheletti, Simona Perotto, and Marco Verani. Uzawa-based adaptive methods for linear output functionals. *IMA Journal of Numerical Analysis*, 28(3):619–646, July 2008. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/cgi/content/abstract/28/3/619; http://imajna.oxfordjournals.org/cgi/reprint/28/3/619.

Mickel:2023:WCO

[1700] Annalena Mickel and Andreas Neuenkirch. The weak convergence order of two Euler-type discretization schemes for the log-Heston model. *IMA Journal of Numerical Analysis*, 43(6):3326–3356, November 2023. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/43/6/3326/6834122.

Micula:2015:TCN

[1701] Sanda Micula and Wolfgang L. Wendland. Trigonometric collocation for nonlinear Riemann–Hilbert problems on doubly connected domains. *IMA Journal of Numerical Analysis*, 35(2):834–858, April 2015. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/35/2/834.

Miellou:2005:SCF

[1702] J. C. Miellou, P. Spiteri, and D. El Baz. Stopping criteria, forward and backward errors for perturbed asynchronous linear fixed point methods in finite precision. *IMA Journal of Numerical Analysis*, 25(3):429–442, July 2005. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imanum.oxfordjournals.org/cgi/content/abstract/25/3/429; http://imanum.oxfordjournals.org/cgi/reprint/25/3/429.

Miettinen:1995:ANM

[1703] Markku Miettinen and Jaroslav Haslinger. Approximation of non-monotone multivalued differential inclusions. *IMA Journal of Numerical Analysis*, 15(4):475–503, 1995.

CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Migliorati:2021:MAF

[1704] Giovanni Migliorati. Multivariate approximation of functions on irregular domains by weighted least-squares methods. *IMA Journal of Numerical Analysis*, 41(2):1293–1317, April 2021. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/41/2/1293/5872671.

Mihai:2006:ASB

[1705] L. Angela Mihai and Alan W. Craig. Alternate strip-based substructuring algorithms for elliptic PDEs in two dimensions. *IMA Journal of Numerical Analysis*, 26(2):354–380, April 2006. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imanum.oxfordjournals.org/cgi/content/abstract/26/2/354; http://imanum.oxfordjournals.org/cgi/reprint/26/2/354.

Mihai:2009:ASB

[1706] L. Angela Mihai and Alan W. Craig. Alternate slice-based substructuring in three dimensions. *IMA Journal of Numerical Analysis*, 29(3):508–538, July 2009. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/cgi/content/abstract/29/3/508; http://imajna.oxfordjournals.org/cgi/reprint/29/3/508.

Miller:1995:PUM

[1707] J. J. H. Miller, E. O'Riordan, and G. I. Shishkin. On piecewise-uniform meshes for upwind- and central-difference operators for solving singularly perturbed problems. *IMA Journal of Numerical Analysis*, 15(1):89–99, 1995. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Miller:1994:NNP

[1708] J. J. H. Miller and S. Wang. A new nonconforming Petrov–Galerkin finite-element method with triangular elements for a singularly perturbed advection-diffusion problem. *IMA Journal of Numerical Analysis*, 14(2):257–276, 1994. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Miller:2001:LSM

[1709] Keith Miller and Mike J. Baines. Least squares moving finite elements. *IMA Journal of Numerical Analysis*, 21(3):621–642, July 2001. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_21/Issue_03/210621.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_21/Issue_03/pdf/210621.pdf.

Milner:1996:MFE

[1710] F. A. Milner and E.-J Park. Mixed finite-element methods for Hamilton–Jacobi–Bellman-type equations. *IMA Journal of Numerical Analysis*, 16(3):399–412, July 1996. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_16/Issue_03/160399.sgm.abs.html.

Milovanovic:2011:GQR

[1711] Gradimir V. Milovanović and Aleksandar S. Cvetković. Gaussian quadrature rules using function derivatives. *IMA Journal of Numerical Analysis*, 31(1):358–377, January 2011. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/31/1/358.full.pdf+html.

Milovanovic:2019:QMN

[1712] Gradimir V. Milovanović, Ramón Orive, and Miodrag M. Spalević. Quadratures with multiple nodes for Fourier–Chebyshev coefficients. *IMA Journal of Numerical Analysis*, 39(1):271–296, January 25, 2019. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/39/1/271/4629556.

Milovanovic:2009:EEG

[1713] Gradimir V. Milovanovic, Miodrag M. Spalevic, and Miroslav S. Pranic. Error estimates for Gauss–Turán quadratures and their Kronrod extensions. *IMA Journal of Numerical Analysis*, 29(3):486–507, July 2009. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/cgi/content/abstract/29/3/486; http://imajna.oxfordjournals.org/cgi/reprint/29/3/486.

Milstein:2001:NSD

[1714] G. N. Milstein and M. V. Tretyakov. Numerical solution of the Dirichlet problem for nonlinear parabolic equations by a probabilistic approach. *IMA Journal of Numerical Analysis*, 21(4):887–917, October 2001. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_21/Issue_04/210887.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_21/Issue_04/pdf/210887.pdf.

Milstein:2002:PAS

[1715] G. N. Milstein and M. V. Tretyakov. A probabilistic approach to the solution of the Neumann problem for nonlinear parabolic equations. *IMA Journal of Numerical Analysis*, 22(4):599–622, October 2002. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_22/Issue_04/220599.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_22/Issue_04/pdf/220599.pdf.

Milstein:2007:DFB

[1716] G. N. Milstein and M. V. Tretyakov. Discretization of forward–backward stochastic differential equations and related quasi-linear parabolic equations. *IMA Journal of Numerical Analysis*, 27(1):24–44, January 2007. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/cgi/content/abstract/27/1/24; http://imajna.oxfordjournals.org/cgi/reprint/27/1/24.

Milstein:2003:QSM

[1717] Journal G. N. Milstein and M. V. Tretyakov. Quasi-symplectic methods for Langevin-type equations. *IMA Journal of Numerical Analysis*, 23(4):

593–626, October 2003. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_23/Issue_04/230593.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_23/Issue_04/pdf/230593.pdf.

Mirzaei:2012:GML

[1718] Davoud Mirzaei, Robert Schaback, and Mehdi Dehghan. On generalized moving least squares and diffuse derivatives. *IMA Journal of Numerical Analysis*, 32(3):983–1000, July 2012. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/32/3/983.full.pdf+html.

Mishra:2022:EGE

[1719] Siddhartha Mishra and Roberto Molinaro. Estimates on the generalization error of physics-informed neural networks for approximating a class of inverse problems for PDEs. *IMA Journal of Numerical Analysis*, 42(2):981–1022, April 2022. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/42/2/981/6297946.

Mishra:2023:EGE

[1720] Siddhartha Mishra and Roberto Molinaro. Estimates on the generalization error of physics-informed neural networks for approximating PDEs. *IMA Journal of Numerical Analysis*, 43(1):1–43, January 2023. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/43/1/1/6503953.

Mitchell:2016:HEC

[1721] Tim Mitchell and Michael L. Overton. Hybrid expansion-contraction: a robust scaleable method for approximating the H_∞ norm. *IMA Journal of Numerical Analysis*, 36(3):985–1014, July 2016. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/36/3/985.

Mittal:1991:HOF

[1722] R. C. Mittal and S. Gahlaut. High-order finite-difference schemes to solve Poisson's equation in polar coordinates. *IMA Journal of Numerical Analysis*, 11(2):261–270, 1991. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Mohr:2024:FOP

[1723] Stephan Mohr, Yuji Nakatsukasa, and Carolina Urzúa-Torres. Full operator preconditioning and the accuracy of solving linear systems. *IMA Journal of Numerical Analysis*, 44(6):3259–3279, November 2024. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/44/6/3259/7587505.

Mommer:2006:SPF

[1724] Mario S. Mommer. A smoothness preserving fictitious domain method for elliptic boundary-value problems. *IMA Journal of Numerical Analysis*, 26(3):503–524, July 2006. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://comjnl.oxfordjournals.org/cgi/content/abstract/26/3/503; http://comjnl.

oxfordjournals.org/cgi/reprint/26/3/503.

Monegato:2023:E

[1725] Giovanni Monegato. Erratum to: "On a time-discrete convolution-space collocation BEM for the numerical solution of two-dimensional wave propagation problems in unbounded domains". *IMA Journal of Numerical Analysis*, 43(6):3796–3799, November 2023. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/43/6/3796/7147510. See [1726].

Monegato:2023:TDC

[1726] Giovanni Monegato. On a time-discrete convolution-space collocation BEM for the numerical solution of two-dimensional wave propagation problems in unbounded domains. *IMA Journal of Numerical Analysis*, 43(6): 3766–3795, November 2023. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/43/6/3766/6795271. See erratum [1725].

Monjezi:2023:PBA

[1727] Najmeh Hoseini Monjezi, Soghra Nobakhtian, and Mohamad Reza Pouryayevali. A proximal bundle algorithm for nonsmooth optimization on Riemannian manifolds. *IMA Journal of Numerical Analysis*, 43(1):293–325, January 2023. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/43/1/293/6454153.

Monk:2022:HMS

[1728] Peter Monk and Yangwen Zhang. An HDG method for the Steklov eigenvalue problem. *IMA Journal of Numerical Analysis*, 42(3):1929–1962, July 2022. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/42/3/1929/6254232.

Moore:1981:COA

[1729] G. Moore and A. Spence. The convergence of operator approximations at turning points. *IMA Journal of Numerical Analysis*, 1(1):23–38, 1981. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Moore:1986:OAS

[1730] G. Moore, A. Spence, and B. Werner. Operator approximation and symmetry-breaking bifurcation. *IMA Journal of Numerical Analysis*, 6(3):331–336, 1986. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Moore:1995:CPP

[1731] Gerald Moore. Computation and parametrization of periodic and connecting orbits. *IMA Journal of Numerical Analysis*, 15(2):245–263, 1995. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Moore:1999:ACS

[1732] Gerald Moore and Evelyne Hubert. Algorithms for constructing stable manifolds of stationary solutions. *IMA Journal of Numerical Analysis*, 19(3): 375–424, July 1999. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.

oup.co.uk/imanum/hdb/Volume_19/Issue_03/190375.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_19/Issue_03/pdf/190375.pdf.

Moosmuller:2019:ISV

[1733] Caroline Moosmüller and Nira Dyn. Increasing the smoothness of vector and Hermite subdivision schemes. *IMA Journal of Numerical Analysis*, 39 (2):579–606, April 2019. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/39/2/579/4955793.

Moosmuller:2021:SNG

[1734] Caroline Moosmüller, Svenja Hüning, and Costanza Conti. Stirling numbers and Gregory coefficients for the factorization of Hermite subdivision operators. *IMA Journal of Numerical Analysis*, 41(4):2936–2961, October 2021. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/41/4/2936/5898149.

Mora:2005:WES

[1735] Carlos M. Mora. Weak exponential schemes for stochastic differential equations with additive noise. *IMA Journal of Numerical Analysis*, 25(3):486–506, July 2005. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imanum.oxfordjournals.org/cgi/content/abstract/25/3/486; http://imanum.oxfordjournals.org/cgi/reprint/25/3/486.

Mora:2022:VEM

[1736] David Mora, Carlos Reales, and Alberth Silgado. A C^1-virtual element method of high order for the Brinkman equations in stream function formulation with pressure recovery. *IMA Journal of Numerical Analysis*, 42(4):3632–3674, October 2022. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/42/4/3632/6479810.

Mora:2020:PPE

[1737] David Mora and Gonzalo Rivera. A priori and a posteriori error estimates for a virtual element spectral analysis for the elasticity equations. *IMA Journal of Numerical Analysis*, 40 (1):322–357, January 2020. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/40/1/322/5148143.

Morales:2012:SQP

[1738] José Luis Morales, Jorge Nocedal, and Yuchen Wu. A sequential quadratic programming algorithm with an additional equality constrained phase. *IMA Journal of Numerical Analysis*, 32(2):553–579, April 2012. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/32/2/553.full.pdf+html.

Moret:1990:PNM

[1739] Igor Moret and Pierpaolo Omari. A projective Newton method for semilinear operator equations in Banach spaces. *IMA Journal of Numerical Analysis*, 10(4):505–520, 1990. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Morton:1981:E

[1740] K. W. Morton and M. J. D. Powell. Editorial. *IMA Journal of Numerical Analysis*, 1(1):1, January 1981. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Morton:1993:DCD

[1741] K. W. Morton and I. J. Sobey. Discretization of a convection-diffusion equation. *IMA Journal of Numerical Analysis*, 13(1):141–160, 1993. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Morton:1991:FVM

[1742] K. W. Morton and E. Süli. Finite volume methods and their analysis. *IMA Journal of Numerical Analysis*, 11(2):241–260, 1991. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Morton:2010:CDP

[1743] K. William Morton. The convection–diffusion Petrov–Galerkin story. *IMA Journal of Numerical Analysis*, 30 (1):231–240, January 2010. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/cgi/content/abstract/30/1/231; http://imajna.oxfordjournals.org/cgi/reprint/30/1/231.

Motte:1988:NCM

[1744] David L. Motte. The numerical computation of the minimal projection. *IMA Journal of Numerical Analysis*, 8(2):219–230, 1988. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Mu:2015:NWG

[1745] Lin Mu, Junping Wang, and Xiu Ye. A new weak Galerkin finite element method for the Helmholtz equation. *IMA Journal of Numerical Analysis*, 35(3):1228–1255, July 2015. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/35/3/1228.

Muhr:2023:DGC

[1746] Markus Muhr, Barbara Wohlmuth, and Vanja Nikolić. A discontinuous Galerkin coupling for nonlinear elastoacoustics. *IMA Journal of Numerical Analysis*, 43(1):225–257, January 2023. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/43/1/225/6437769.

Mulansky:1992:CAS

[1747] Bernd Mulansky. Chebyshev approximation by spline functions with free knots. *IMA Journal of Numerical Analysis*, 12(1):95–105, 1992. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Mullenheim:1992:STP

[1748] Gregor Müllenheim. Solving two-point boundary value problems with spline functions. *IMA Journal of Numerical Analysis*, 12(4):503–518, 1992. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Muller-Gronbach:2022:SOM

[1749] Thomas Müller-Gronbach and Larisa Yaroslavtseva. A strong order

3/4 method for SDEs with discontinuous drift coefficient. *IMA Journal of Numerical Analysis*, 42(1):229–259, January 2022. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/42/1/229/5989805`.

Murdoch:1992:CSS

[1750] T. Murdoch and C. J. Budd. Convergent and spurious solutions of nonlinear elliptic equations. *IMA Journal of Numerical Analysis*, 12(3):365–386, 1992. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). IMA Conference on Dynamics of Numerics and Numerics of Dynamics (Bristol, 1990).

Mustapha:2011:IFD

[1751] Kassem Mustapha. An implicit finite-difference time-stepping method for a sub-diffusion equation, with spatial discretization by finite elements. *IMA Journal of Numerical Analysis*, 31(2):719–739, April 2011. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/31/2/719.full.pdf+html`.

Mustapha:2023:SOA

[1752] Kassem Mustapha, Omar M. Knio, and Olivier P. Le Maître. A second-order accurate numerical scheme for a time-fractional Fokker–Planck equation. *IMA Journal of Numerical Analysis*, 43(4):2115–2136, July 2023. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/43/4/2115/6644914`.

Mustapha:2012:UCD

[1753] Kassem Mustapha and William McLean. Uniform convergence for a discontinuous Galerkin, time-stepping method applied to a fractional diffusion equation. *IMA Journal of Numerical Analysis*, 32(3):906–925, July 2012. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/32/3/906.full.pdf+html`.

Mustapha:2010:SOA

[1754] Kassem Mustapha and Hussein Mustapha. A second-order accurate numerical method for a semilinear integro-differential equation with a weakly singular kernel. *IMA Journal of Numerical Analysis*, 30(2):555–578, April 2010. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/cgi/content/abstract/30/2/555`; `http://imajna.oxfordjournals.org/cgi/reprint/30/2/555`.

Mustapha:2014:WPV

[1755] Kassem Mustapha and Dominik Schötzau. Well-posedness of *hp*-version discontinuous Galerkin methods for fractional diffusion wave equations. *IMA Journal of Numerical Analysis*, 34(4):1426–1446, October 2014. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/34/4/1426`.

Nabet:2016:CFV

[1756] Flore Nabet. Convergence of a

finite-volume scheme for the Cahn–Hilliard equation with dynamic boundary conditions. *IMA Journal of Numerical Analysis*, 36(4):1898–1942, October 2016. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/36/4/1898`.

Natale:2018:CVF

[1757] Andrea Natale and Colin J. Cotter. Corrigendum to: A variational $\boldsymbol{H}$(div) finite-element discretization approach for perfect incompressible fluids. *IMA Journal of Numerical Analysis*, 38 (2):1084, April 18, 2018. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/38/2/1084/4774535`. See [1758].

Natale:2018:VFE

[1758] Andrea Natale and Colin J. Cotter. A variational $\boldsymbol{H}$(div) finite-element discretization approach for perfect incompressible fluids. *IMA Journal of Numerical Analysis*, 38(3): 1388–1419, July 17, 2018. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/38/3/1388/3897379`. See corrigendum [1757].

Navarrete:2016:ASI

[1759] Raymundo Navarrete and Divakar Viswanath. Accuracy and stability of inversion of power series. *IMA Journal of Numerical Analysis*, 36(1):421–436, January 2016. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/36/1/421`.

Navot:1987:EMT

[1760] I. Navot. An Euler–Maclaurin transformation of a slowly convergent series with an application to Fourier coefficient evaluation. *IMA Journal of Numerical Analysis*, 7(3):335–353, 1987. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Necoara:2021:RSD

[1761] Ion Necoara and Martin Takác. Randomized sketch descent methods for non-separable linearly constrained optimization. *IMA Journal of Numerical Analysis*, 41(2):1056–1092, April 2021. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/41/2/1056/5834388`.

Negyesi:2024:OSM

[1762] Balint Negyesi, Kristoffer Andersson, and Cornelis W Oosterlee. The One Step Malliavin scheme: new discretization of BSDEs implemented with deep learning regressions. *IMA Journal of Numerical Analysis*, 44(6):3595–3647, November 2024. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/44/6/3595/7613646`.

Neilan:2024:EFE

[1763] Michael Neilan and Maxim Olshanskii. An Eulerian finite element method for the linearized Navier–Stokes problem in an evolving domain. *IMA Journal of Numerical Analysis*, 44(6): 3234–3258, November 2024. CODEN

IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/44/6/3234/7590885.

Neuenkirch:2021:EMS

[1764] Andreas Neuenkirch and Michaela Szölgyenyi. The Euler–Maruyama scheme for SDEs with irregular drift: convergence rates via reduction to a quadrature problem. *IMA Journal of Numerical Analysis*, 41(2):1164–1196, April 2021. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/41/2/1164/5858186.

Neuman:1983:PCP

[1765] Edward Neuman. Properties of a class of polynomial splines. *IMA Journal of Numerical Analysis*, 3(2):245–252, 1983. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Ng:1999:FIM

[1766] Michael K. Ng. Fast iterative methods for symmetric sinc-Galerkin systems. *IMA Journal of Numerical Analysis*, 19(3):357–373, July 1999. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_19/Issue_03/190357.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_19/Issue_03/pdf/190357.pdf.

Ngo:2017:EMA

[1767] Hoang-Long Ngo and Dai Taguchi. On the Euler–Maruyama approximation for one-dimensional stochastic differential equations with irregular coefficients. *IMA Journal of Numerical Analysis*, 37(4):1864–1883, October 1, 2017. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL https://academic.oup.com/imajna/article/37/4/1864/3074990.

Nguyen:2003:FEW

[1768] Hoang Nguyen and Rob Stevenson. Finite-element wavelets on manifolds. *IMA Journal of Numerical Analysis*, 23(1):149–173, January 2003. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_23/Issue_01/230149.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_23/Issue_01/pdf/230149.pdf.

Nguyen:2012:PCR

[1769] Son Luu Nguyen and G. Yin. Pathwise convergence rate for numerical solutions of stochastic differential equations. *IMA Journal of Numerical Analysis*, 32(2):701–723, April 2012. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/32/2/701.full.pdf+html.

Nicaise:2005:CAF

[1770] Serge Nicaise and Karim Djadel. Convergence analysis of a finite volume method for the Stokes system using non-conforming arguments. *IMA Journal of Numerical Analysis*, 25(3):523–548, July 2005. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imanum.oxfordjournals.org/cgi/content/abstract/25/3/523; http://imanum.

oxfordjournals.org/cgi/reprint/25/3/523.

Nicaise:2008:PEE

[1771] Serge Nicaise, Katharina Witowski, and Barbara I. Wohlmuth. An a posteriori error estimator for the Lamé equation based on equilibrated fluxes. *IMA Journal of Numerical Analysis*, 28(2):331–353, April 2008. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/cgi/content/abstract/28/2/331; http://imajna.oxfordjournals.org/cgi/reprint/28/2/331.

Nie:1985:LMF

[1772] Yi Yong Nie and Vidar Thomée. A lumped mass finite-element method with quadrature for a nonlinear parabolic problem. *IMA Journal of Numerical Analysis*, 5(4):371–396, 1985. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Nielsen:2009:PIL

[1773] Bjørn Fredrik Nielsen, Aslak Tveito, and Wolfgang Hackbusch. Preconditioning by inverting the Laplacian: an analysis of the eigenvalues. *IMA Journal of Numerical Analysis*, 29(1): 24–42, January 2009. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Nigam:2012:HOC

[1774] Nilima Nigam and Joel Phillips. High-order conforming finite elements on pyramids. *IMA Journal of Numerical Analysis*, 32(2):448–483, April 2012. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/32/2/448.full.pdf+html.

Nochetto:2019:TSM

[1775] R. H. Nochetto, D. Ntogkas, and W. Zhang. Two-scale method for the Monge–Ampère equation: pointwise error estimates. *IMA Journal of Numerical Analysis*, 39(3): 1085–1109, July 2019. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/39/3/1085/4992684.

Nochetto:2009:SDW

[1776] Ricardo H. Nochetto, Andreas Veeser, and Marco Verani. A safeguarded dual weighted residual method. *IMA Journal of Numerical Analysis*, 29(1): 126–140, January 2009. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Norton:2012:FEA

[1777] Richard A. Norton and Endre Süli. Finite element approximation of an H^1 gradient flow of a double-well potential with bending energy. *IMA Journal of Numerical Analysis*, 32(4):1635–1661, October 2012. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/32/4/1635.full.pdf+html.

Nurnberger:1998:EAI

[1778] G. Nürnberger and G. Walz. Error analysis in interpolation by bivariate C_1-splines. *IMA Journal of Numerical Analysis*, 18(4):485–508, October 1998. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_18/Issue_04/180485.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_18/Issue_04/pdf/180485.pdf.

Ober-Blobaum:2017:GVI

[1779] Sina Ober-Blöbaum. Galerkin variational integrators and modified symplectic Runge–Kutta methods. *IMA Journal of Numerical Analysis*, 37(1):375–406, January 1, 2017. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL https://academic.oup.com/imajna/article/37/1/375/2884280/Galerkin-variational-integrators-and-modified.

Oberman:2018:NMM

[1780] Adam M. Oberman and Tiago Salvador. Numerical methods for motion of level sets by affine curvature. *IMA Journal of Numerical Analysis*, 38(4):1735–1767, October 16, 2018. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/38/4/1735/4085563.

Of:2006:FMM

[1781] G. Of, O. Steinbach, and W. L. Wendland. The fast multipole method for the symmetric boundary integral formulation. *IMA Journal of Numerical Analysis*, 26(2):272–296, April 2006. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imanum.oxfordjournals.org/cgi/content/abstract/26/2/272; http://imanum.oxfordjournals.org/cgi/reprint/26/2/272.

Oh:2014:NAA

[1782] Minah Oh. A new approach to the analysis of axisymmetric problems. *IMA Journal of Numerical Analysis*, 34(4):1686–1700, October 2014. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/34/4/1686.

Oh:2021:HLA

[1783] Minah Oh. The Hodge Laplacian on axisymmetric domains and its discretization. *IMA Journal of Numerical Analysis*, 41(2):1569–1607, April 2021. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/41/2/1569/5875524.

Ohlberger:2002:AFV

[1784] Mario Ohlberger and Christian Rohde. Adaptive finite volume approximations for weakly coupled convection dominated parabolic systems. *IMA Journal of Numerical Analysis*, 22(2):253–280, April 2002. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_22/Issue_02/220253.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_22/Issue_02/pdf/220253.pdf.

Oki:2023:ISM

[1785] Taihei Oki. Improved structural methods for nonlinear differential-algebraic equations via combinatorial relaxation. *IMA Journal of Numerical Analysis*, 43

(1):357–386, January 2023. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/43/1/357/6470741`.

Oliver:1982:AEP

[1786] J. Oliver. The accurate evaluation of polynomial approximations to library functions. *IMA Journal of Numerical Analysis*, 2(1):63–72, January 1982. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Oliver:1982:FLM

[1787] P. Oliver. A family of linear multistep methods for the solution of stiff and nonstiff ODEs. *IMA Journal of Numerical Analysis*, 2(3):289–301, July 1982. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Olshanskii:2014:SFE

[1788] Maxim A. Olshanskii, Arnold Reusken, and Xianmin Xu. A stabilized finite element method for advection-diffusion equations on surfaces. *IMA Journal of Numerical Analysis*, 34(2):732–758, April 2014. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/34/2/732.full.pdf+html`.

Olver:1982:FDE

[1789] F. W. J. Olver. Further developments of *rp* and *ap* error analysis. *IMA Journal of Numerical Analysis*, 2(3):249–274, July 1982. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Olver:1983:EBA

[1790] F. W. J. Olver. Error bounds for arithmetic operations on computers without guard digits. *IMA Journal of Numerical Analysis*, 3(2):153–160, 1983. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Olver:1986:EBP

[1791] F. W. J. Olver. Error bounds for polynomial evaluation and complex arithmetic. *IMA Journal of Numerical Analysis*, 6(3):373–379, 1986. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Olver:1982:PEB

[1792] F. W. J. Olver and J. H. Wilkinson. A posteriori error bounds for Gaussian elimination. *IMA Journal of Numerical Analysis*, 2(4):377–406, October 1982. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Olver:2006:MFN

[1793] Sheehan Olver. Moment-free numerical integration of highly oscillatory functions. *IMA Journal of Numerical Analysis*, 26(2):213–227, April 2006. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imanum.oxfordjournals.org/cgi/content/abstract/26/2/213`; `http://imanum.oxfordjournals.org/cgi/reprint/26/2/213`.

Olver:2021:OSQ

[1794] Sheehan Olver and Yuan Xu. Orthogonal structure on a quadratic curve. *IMA Journal of Numerical Analysis*, 41 (1):206–246, January 2021. CODEN

IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/41/1/206/5821508.

Omladic:1992:AQF

[1795] Matjaž Omladič. Average quadrature formulas of Gauss type. *IMA Journal of Numerical Analysis*, 12(2):189–199, 1992. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

ONeill:2021:LBN

[1796] Michael O'Neill and Stephen J. Wright. A log-barrier Newton–CG method for bound constrained optimization with complexity guarantees. *IMA Journal of Numerical Analysis*, 41(1):84–121, January 2021. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/41/1/84/5821509.

Ortner:2011:NFE

[1797] Christoph Ortner. Nonconforming finite-element discretization of convex variational problems. *IMA Journal of Numerical Analysis*, 31(3):847–864, July 2011. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/31/3/847.full.pdf+html.

Ortner:2014:PEC

[1798] Christoph Ortner and Hao Wang. A posteriori error control for a quasi-continuum approximation of a periodic chain. *IMA Journal of Numerical Analysis*, 34(3):977–1001, July 2014. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/34/3/977.

Osada:1992:MOS

[1799] Naoki Osada. A method for obtaining sequence transformations. *IMA Journal of Numerical Analysis*, 12(1):85–94, 1992. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Osborne:1992:EMC

[1800] M. R. Osborne. An effective method for computing regression quantiles. *IMA Journal of Numerical Analysis*, 12(2):151–166, 1992. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Osborne:2010:ABL

[1801] M. R. Osborne. Asymptotic behaviour in linear least squares problems. *IMA Journal of Numerical Analysis*, 30(1):241–247, January 2010. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/cgi/content/abstract/30/1/241; http://imajna.oxfordjournals.org/cgi/reprint/30/1/241.

Osborne:2000:NAV

[1802] M. R. Osborne, Brett Presnell, and B. A. Turlach. A new approach to variable selection in least squares problems. *IMA Journal of Numerical Analysis*, 20(3):389–403, July 2000. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_20/Issue_03/200389.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_20/Issue_03/pdf/200389.pdf.

Osborne:1999:NAS

[1803] M. R. Osborne and Linping Sun. A new approach to symmetric rank-one updating. *IMA Journal of Numerical Analysis*, 19(4):497–507, October 1999. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_19/Issue_04/190497.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_19/Issue_04/pdf/190497.pdf.

Ostermann:1990:HEE

[1804] Alexander Ostermann. A half-explicit extrapolation method for differential-algebraic systems of index 3. *IMA Journal of Numerical Analysis*, 10(2): 171–180, 1990. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Ostermann:2020:LTE

[1805] Alexander Ostermann and Chunmei Su. A Lawson-type exponential integrator for the Korteweg–de Vries equation. *IMA Journal of Numerical Analysis*, 40(4):2399–2414, October 2020. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/40/4/2399/5588351.

Ostermann:2000:NSD

[1806] Alexander Ostermann and Mechthild Thalhammer. Non-smooth data error estimates for linearly implicit Runge–Kutta methods. *IMA Journal of Numerical Analysis*, 20(2): 167–184, April 2000. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_20/Issue_02/200167.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_20/Issue_02/pdf/200167.pdf.

Oswald:1998:OMP

[1807] Peter Oswald. An optimal multilevel preconditioner for solenoidal approximations of the two-dimensional Stokes problem. *IMA Journal of Numerical Analysis*, 18(2):207–228, April 1998. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_18/Issue_02/180207.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_18/Issue_02/pdf/180207.pdf.

Otarola:2024:SOC

[1808] Enrique Otárola. Semilinear optimal control with Dirac measures. *IMA Journal of Numerical Analysis*, 44(6): 3573–3594, November 2024. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/44/6/3573/7450353.

Oyarzua:2014:EDF

[1809] Ricardo Oyarzúa, Tong Qin, and Dominik Schötzau. An exactly divergence-free finite element method for a generalized Boussinesq problem. *IMA Journal of Numerical Analysis*, 34(3):1104–1135, July 2014. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/34/3/1104.

Pachon:2010:PSC

[1810] Ricardo Pachón, Rodrigo B. Platte, and Lloyd N. Trefethen. Piecewise-smooth chebfuns. *IMA Journal of*

Numerical Analysis, 30(4):898–916, October 2010. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/30/4/898.full.pdf+html.

Pages:2021:WSE

[1811] Gilles Pagès and Abass Sagna. Weak and strong error analysis of recursive quantization: a general approach with an application to jump diffusions. *IMA Journal of Numerical Analysis*, 41(4): 2668–2707, October 2021. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/41/4/2668/5912729.

Palagallo:1987:NBA

[1812] Judith A. Palagallo and Thomas E. Price, Jr. Near-best approximation by averaging polynomial interpolants. *IMA Journal of Numerical Analysis*, 7(1):107–122, 1987. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Palencia:1984:ETI

[1813] C. Palencia and J. M. Sanz-Serna. Equivalence theorems for incomplete spaces: an appraisal. *IMA Journal of Numerical Analysis*, 4(1):109–115, January 1984. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Pan:1994:MCC

[1814] K. Pan. On Mason's conjecture concerning interpolation by polynomials in z and z^{-1} on an annulus. *IMA Journal of Numerical Analysis*, 14(4):599–604, 1994. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Pani:1991:FEG

[1815] A. K. Pani and P. C. Das. A finite element Galerkin method for a unidimensional single-phase nonlinear Stefan problem with Dirichlet boundary conditions. *IMA Journal of Numerical Analysis*, 11(1):99–113, 1991. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Pani:1991:PEE

[1816] A. K. Pani and P. C. Das. A priori error estimates for a single-phase quasilinear Stefan problem in one space dimension. *IMA Journal of Numerical Analysis*, 11(3):377–392, 1991. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Pani:1999:QMP

[1817] Amiya K. Pani. A qualocation method for parabolic partial differential equations. *IMA Journal of Numerical Analysis*, 19(3):473–495, July 1999. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_19/Issue_03/190473.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_19/Issue_03/pdf/190473.pdf.

Pani:2002:GMF

[1818] Amiya K. Pani and Graeme Fairweather. H^1-Galerkin mixed finite element methods for parabolic partial integro-differential equations. *IMA Journal of Numerical Analysis*, 22(2): 231–252, April 2002. CODEN IJNADH. ISSN 0272-4979 (print), 1464-

3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_22/Issue_02/220231.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_22/Issue_02/pdf/220231.pdf.

Pani:2005:SFE

[1819] Amiya K. Pani and Jin Yun Yuan. Semidiscrete finite element Galerkin approximations to the equations of motion arising in the Oldroyd model. *IMA Journal of Numerical Analysis*, 25 (4):750–782, October 2005. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imanum.oxfordjournals.org/cgi/reprint/25/4/750.

Pani:2010:AOS

[1820] Amiya Kumar Pani, Graeme Fairweather, and Ryan I. Fernandes. ADI orthogonal spline collocation methods for parabolic partial integro–differential equations. *IMA Journal of Numerical Analysis*, 30(1):248–276, January 2010. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/cgi/content/abstract/30/1/248; http://imajna.oxfordjournals.org/cgi/reprint/30/1/248.

Papamichael:1993:NMC

[1821] N. Papamichael, M. J. Soares, and N. S. Stylianopoulos. A numerical method for the computation of Faber polynomials for starlike domains. *IMA Journal of Numerical Analysis*, 13(2):181–193, 1993. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Papamichael:1986:PCN

[1822] N. Papamichael and Maria Joana Soares. A posteriori corrections for nonperiodic cubic and quintic interpolating splines at equally spaced knots. *IMA Journal of Numerical Analysis*, 6(4):489–502, 1986. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Papez:2018:RBP

[1823] Jan Papez and Zdenek Strakos. On a residual-based a posteriori error estimator for the total error. *IMA Journal of Numerical Analysis*, 38(3):1164–1184, July 17, 2018. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/38/3/1164/4124871.

Pares-Pulido:2023:FVM

[1824] Carlos Parés-Pulido. Finite volume methods for the computation of statistical solutions of the incompressible Euler equations. *IMA Journal of Numerical Analysis*, 43(5):3073–3108, September 2023. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/43/5/3073/6795269.

Parks:2019:CEP

[1825] Helen Parks and Melvin Leok. Constructing equivalence-preserving Dirac variational integrators with forces. *IMA Journal of Numerical Analysis*, 39 (4):1706–1726, October 2019. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/39/4/1706/5069580.

Parlett:1981:TPL

[1826] B. N. Parlett and J. K. Reid. Tracking the progress of the Lanczos algorithm for large symmetric eigenproblems. *IMA Journal of Numerical Analysis*, 1(2):135–155, 1981. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Pearson:2024:SPD

[1827] John W. Pearson and Andreas Potschka. On symmetric positive definite preconditioners for multiple saddle-point systems. *IMA Journal of Numerical Analysis*, 44(3):1731–1750, May 2024. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/44/3/1731/7237437.

Pechstein:2013:WPI

[1828] Clemens Pechstein and Robert Scheichl. Weighted Poincaré inequalities. *IMA Journal of Numerical Analysis*, 33(2):652–686, April 2013. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/33/2/652.full.pdf+html.

Lee:2019:RPF

[1829] Ching pei Lee and Stephen J. Wright. Random permutations fix a worst case for cyclic coordinate descent. *IMA Journal of Numerical Analysis*, 39(3):1246–1275, July 2019. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/39/3/1246/5060522.

Pejcev:2012:EBG

[1830] Aleksandar V. Pejcev and Miodrag M. Spalević. Error bounds for Gaussian quadrature formulae with Bernstein–Szegő weights that are rational modifications of Chebyshev weight functions of the second kind. *IMA Journal of Numerical Analysis*, 32(4):1733–1754, October 2012. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/32/4/1733.full.pdf+html.

Pena:1996:PSL

[1831] J. M. Peña. Pivoting strategies leading to small bounds of the errors for certain linear systems. *IMA Journal of Numerical Analysis*, 16(2):141–153, April 1996. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_16/Issue_02/160141.sgm.abs.html.

Peralta:2020:AFE

[1832] Gilbert Peralta and Karl Kunisch. Analysis and finite element discretization for optimal control of a linear fluid-structure interaction problem with delay. *IMA Journal of Numerical Analysis*, 40(1):140–206, January 2020. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/40/1/140/5177807.

Perrin:2021:CFF

[1833] Charlotte Perrin and Khaled Saleh. A convergent FV-FE scheme for the stationary compressible Navier–Stokes equations. *IMA Journal of Numerical Analysis*, 41(2):826–899, April 2021.

CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/41/2/826/5839920`.

Phillips:2010:SRB

[1834] George M. Phillips. A survey of results on the q-Bernstein polynomials. *IMA Journal of Numerical Analysis*, 30(1):277–288, January 2010. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/cgi/content/abstract/30/1/277`; `http://imajna.oxfordjournals.org/cgi/reprint/30/1/277`.

Phillips:1985:EMC

[1835] Timothy N. Phillips. An embedding method for the Cauchy–Riemann equations. *IMA Journal of Numerical Analysis*, 5(4):429–436, 1985. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Phillips:1988:LCG

[1836] Timothy N. Phillips. On the Legendre coefficients of a general-order derivative of an infinitely differentiable function. *IMA Journal of Numerical Analysis*, 8 (4):455–459, October 1988. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Phillips:1989:FSS

[1837] Timothy N. Phillips. Fourier series solutions to Poisson's equation in rectangularly decomposable regions. *IMA Journal of Numerical Analysis*, 9(3): 337–352, 1989. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Phillips:1986:PSM

[1838] Timothy N. Phillips, Thomas A. Zang, and M. Yousuff Hussaini. Preconditioners for the spectral multigrid method. *IMA Journal of Numerical Analysis*, 6(3):273–292, 1986. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Pickering:1993:FSR

[1839] W. M. Pickering and P. J. Harley. FFT solution of the Robbins problem. *IMA Journal of Numerical Analysis*, 13(2):215–233, 1993. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Pidstrigach:2023:CPH

[1840] Jakiw Pidstrigach. Convergence of preconditioned Hamiltonian Monte Carlo on Hilbert spaces. *IMA Journal of Numerical Analysis*, 43(5):2665–2713, September 2023. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/43/5/2665/6749010`.

Pierre:2010:UCF

[1841] Morgan Pierre. Uniform convergence for a finite-element discretization of a viscous diffusion equation. *IMA Journal of Numerical Analysis*, 30(2):487–511, April 2010. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/cgi/content/abstract/30/2/487`; `http://imajna.oxfordjournals.org/cgi/reprint/30/2/487`.

Pinar:2018:BPA

[1842] Miguel A. Piñar and Yuan Xu. Best polynomial approximation on the unit ball. *IMA Journal of Numerical Analysis*, 38(3):1209–1228, July 17, 2018. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/38/3/1209/3852524.

Pinar:1999:SLI

[1843] Mustafa Ç. Pinar and Bintong Chen. l_1 solution of linear inequalities. *IMA Journal of Numerical Analysis*, 19(1): 19–37, January 1999. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_19/Issue_01/190019.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_19/Issue_01/pdf/190019.pdf.

Ma:2001:CLL

[1844] He ping Ma and Ben yu Guo. Composite Legendre-Laguerre pseudospectral approximation in unbounded domains. *IMA Journal of Numerical Analysis*, 21 (2):587–602, April 2001. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_21/Issue_02/210587.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_21/Issue_02/pdf/210587.pdf.

Pinkus:1988:BAC

[1845] A. Pinkus and H. Strauss. Best approximation with coefficient constraints. *IMA Journal of Numerical Analysis*, 8(1):1–22, 1988. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Platte:2011:HFD

[1846] Rodrigo B. Platte. How fast do radial basis function interpolants of analytic functions converge? *IMA Journal of Numerical Analysis*, 31(4):1578–1597, October 2011. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/31/4/1578.full.pdf+html.

Plechac:2023:MPE

[1847] Petr Plecháč, Gabriel Stoltz, and Ting Wang. Martingale product estimators for sensitivity analysis in computational statistical physics. *IMA Journal of Numerical Analysis*, 43(6): 3430–3477, November 2023. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/43/6/3430/6936612.

Plestenjak:2001:CMW

[1848] Bor Plestenjak. A continuation method for a weakly elliptic two-parameter eigenvalue problem. *IMA Journal of Numerical Analysis*, 21(1):199–216, January 2001. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_21/Issue_01/210199.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_21/Issue_01/pdf/210199.pdf.

Poghosyan:2011:ACP

[1849] Arnak Poghosyan. On an autocorrection phenomenon of the Krylov–Gottlieb–Eckhoff method. *IMA Journal of Numerical Analysis*, 31(2):512–527, April 2011. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642

(electronic). URL http://imajna.oxfordjournals.org/content/31/2/512.full.pdf+html.

Pollock:2021:AAC

[1850] Sara Pollock and Leo G. Rebholz. Anderson acceleration for contractive and noncontractive operators. *IMA Journal of Numerical Analysis*, 41(4): 2841–2872, October 2021. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/41/4/2841/6065020.

Pooley:2003:NCP

[1851] D. M. Pooley, P. A. Forsyth, and K. R. Vetzal. Numerical convergence properties of option pricing PDEs with uncertain volatility. *IMA Journal of Numerical Analysis*, 23(2): 241–267, April 2003. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_23/Issue_02/230241.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_23/Issue_02/pdf/230241.pdf.

Porter:1993:RGM

[1852] D. Porter and D. S. G. Stirling. The reiterated Galerkin method. *IMA Journal of Numerical Analysis*, 13(1):125–139, 1993. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Potra:1994:LOM

[1853] F. A. Potra and E. Venturino. Low-order methods for Cauchy principal value integrals with endpoint singularities. *IMA Journal of Numerical Analysis*, 14(2):295–310, 1994. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Potts:2001:NLA

[1854] Daniel Potts and Gabriele Steidl. A new linogram algorithm for computerized tomography. *IMA Journal of Numerical Analysis*, 21(3): 769–782, July 2001. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_21/Issue_03/210769.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_21/Issue_03/pdf/210769.pdf.

Potzsche:2010:CIM

[1855] Christian Pötzsche and Martin Rasmussen. Computation of integral manifolds for Carathéodory differential equations. *IMA Journal of Numerical Analysis*, 30(2):401–430, April 2010. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/cgi/content/abstract/30/2/401; http://imajna.oxfordjournals.org/cgi/reprint/30/2/401.

Poulain:2022:CEA

[1856] Alexandre Poulain and Katharina Schratz. Convergence, error analysis and longtime behavior of the scalar auxiliary variable method for the nonlinear Schrödinger equation. *IMA Journal of Numerical Analysis*, 42(4): 2853–2883, October 2022. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/42/4/2853/6430444.

Poullikkas:1998:MFS

[1857] A. Poullikkas, A. Karageorghis, and G. Georgiou. The method of fundamental solutions for Signorini problems. *IMA Journal of Numerical Analysis*, 18 (2):273–285, April 1998. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_18/Issue_02/180273.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_18/Issue_02/pdf/180273.pdf.

Powell:2005:PFD

[1858] Catherine E. Powell. Parameter-free H (div) preconditioning for a mixed finite element formulation of diffusion problems. *IMA Journal of Numerical Analysis*, 25(4):783–796, October 2005. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imanum.oxfordjournals.org/cgi/reprint/25/4/783.

Powell:2009:BDP

[1859] Catherine E. Powell and Howard C. Elman. Block-diagonal preconditioning for spectral stochastic finite-element systems. *IMA Journal of Numerical Analysis*, 29(2):350–375, April 2009. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/cgi/content/abstract/29/2/350; http://imajna.oxfordjournals.org/cgi/reprint/29/2/350.

Powell:1998:TSA

[1860] M. J. D. Powell. A “taut string algorithm” for straightening a piecewise linear path in two dimensions. *IMA Journal of Numerical Analysis*, 18(1):1–35, January 1998. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_18/Issue_01/180001.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_18/Issue_01/pdf/180001.pdf.

Powell:2008:DNM

[1861] M. J. D. Powell. Developments of NEWUOA for minimization without derivatives. *IMA Journal of Numerical Analysis*, 28(4):649–664, October 2008. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/cgi/content/abstract/28/4/649.

Powell:2010:CWR

[1862] M. J. D. Powell. On the convergence of a wide range of trust region methods for unconstrained optimization. *IMA Journal of Numerical Analysis*, 30(1):289–301, January 2010. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/cgi/content/abstract/30/1/289; http://imajna.oxfordjournals.org/cgi/reprint/30/1/289.

Powell:1981:STP

[1863] M. J. D. Powell and Ph. L. Toint. The Shanno–Toint procedure for updating sparse symmetric matrices. *IMA Journal of Numerical Analysis*, 1(4):403–413, 1981. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Powell:1984:CSC

[1864] M. J. D. Powell and Y. Yuan. Conditions for superlinear convergence in l_1 and l_∞ solutions of overdetermined nonlinear equations. *IMA Journal of Numerical Analysis*, 4(2):241–251, April 1984. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Pozza:2017:GQQ

[1865] Stefano Pozza, Miroslav S. Pranić, and Zdenek Strakos. Gauss quadrature for quasi-definite linear functionals. *IMA Journal of Numerical Analysis*, 37(3):1468–1495, July 1, 2017. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `https://academic.oup.com/imajna/article/37/3/1468/2670009/Gauss-quadrature-for-quasi-definite-linear`.

Pozzi:2005:DDP

[1866] Paola Pozzi. The discrete Douglas problem: convergence results. *IMA Journal of Numerical Analysis*, 25(2):337–378, April 2005. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imanum.oupjournals.org/cgi/content/abstract/25/2/337`; `http://imanum.oupjournals.org/cgi/reprint/25/2/337`.

Pozzi:2019:EFI

[1867] Paola Pozzi and Björn Stinner. Elastic flow interacting with a lateral diffusion process: the one-dimensional graph case. *IMA Journal of Numerical Analysis*, 39(1):201–234, January 25, 2019. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/39/1/201/4904296`.

Pozzolini:2013:VIP

[1868] C. Pozzolini, Y. Renard, and M. Salaun. Vibro-impact of a plate on rigid obstacles: existence theorem, convergence of a scheme and numerical simulations. *IMA Journal of Numerical Analysis*, 33(1):261–294, January 2013. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/33/1/261.full.pdf+html`.

Prautzsch:1986:LCP

[1869] Hartmut Prautzsch. The location of the control points in the case of box splines. *IMA Journal of Numerical Analysis*, 6(1):43–49, 1986. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Preston:2011:NMB

[1870] Mark D. Preston, Peter G. Chamberlain, and Simon N. Chandler-Wilde. A Nyström method for a boundary value problem arising in unsteady water wave problems. *IMA Journal of Numerical Analysis*, 31(3):1123–1153, July 2011. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/31/3/1123.full.pdf+html`.

Priestley:1994:PNC

[1871] A. Priestley. The positive and nearly conservative Lagrange–Galerkin method. *IMA Journal of Numerical Analysis*, 14(2):277–294, 1994.

CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Priestley:1997:MPN

[1872] A. Priestley. The multidimensional positive and nearly conservative Lagrange–Galerkin method. Part II: The use of C^1 elements. *IMA Journal of Numerical Analysis*, 17(2): 177–199, April 1997. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_17/Issue_02/170177.sgm.abs.html.

Prohl:2022:SEE

[1873] Andreas Prohl and Yanqing Wang. Strong error estimates for a space-time discretization of the linear-quadratic control problem with the stochastic heat equation with linear noise. *IMA Journal of Numerical Analysis*, 42(4): 3386–3429, October 2022. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/42/4/3386/6374279.

Prohl:2024:CRR

[1874] Andreas Prohl and Yanqing Wang. Convergence with rates for a Riccati-based discretization of SLQ problems with SPDEs. *IMA Journal of Numerical Analysis*, 44(6):3393–3434, November 2024. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/44/6/3393/7516982. See correction [1875].

Prohl:2025:CCR

[1875] Andreas Prohl and Yanqing Wang. Correction to: Convergence with rates for a Riccati-based discretization of SLQ problems with SPDEs. *IMA Journal of Numerical Analysis*, 45(1): 631, January 2025. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/45/1/631/7641611. See [1874].

Pruess:1993:SPC

[1876] Steven Pruess. Shape preserving C^2 cubic spline interpolation. *IMA Journal of Numerical Analysis*, 13(4):493–507, 1993. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Pryce:1985:MEA

[1877] J. D. Pryce. Multiplicative error analysis of matrix transformation algorithms. *IMA Journal of Numerical Analysis*, 5(4):437–445, 1985. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Pryce:1986:ECP

[1878] J. D. Pryce. Error control of phase-function shooting methods for Sturm–Liouville problems. *IMA Journal of Numerical Analysis*, 6(1):103–123, 1986. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Pryce:1989:CIR

[1879] J. D. Pryce. On the convergence of iterated remeshing. *IMA Journal of Numerical Analysis*, 9(3):315–335, 1989. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Pytlak:1994:CCG

[1880] R. Pytlak. On the convergence of conjugate gradient algorithms. *IMA Jour-*

nal of Numerical Analysis, 14(3):443–460, 1994. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Qi:2011:ALD

[1881] Houduo Qi and Defeng Sun. An augmented Lagrangian dual approach for the H-weighted nearest correlation matrix problem. *IMA Journal of Numerical Analysis*, 31(2):491–511, April 2011. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/31/2/491.full.pdf+html.

Qi:2019:EEF

[1882] Ruisheng Qi and Xiaojie Wang. Error estimates of finite element method for semilinear stochastic strongly damped wave equation. *IMA Journal of Numerical Analysis*, 39(3):1594–1626, July 2019. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/39/3/1594/5032336.

Qian:2024:EBE

[1883] Yitian Qian, Shaohua Pan, and Lianghai Xiao. Error bound and exact penalty method for optimization problems with nonnegative orthogonal constraint. *IMA Journal of Numerical Analysis*, 44(1):120–156, January 2024. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/44/1/120/7017336.

Qin:2024:SNO

[1884] Ouyuan Qin and Kuan Xu. Solving nonlinear ODEs with the ultraspherical spectral method. *IMA Journal of Numerical Analysis*, 44(6):3749–3779, November 2024. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/44/6/3749/7560584.

Qiu:2016:SHM

[1885] Weifeng Qiu and Ke Shi. A superconvergent HDG method for the incompressible Navier–Stokes equations on general polyhedral meshes. *IMA Journal of Numerical Analysis*, 36(4):1943–1967, October 2016. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/36/4/1943.

Qiu:2020:MDM

[1886] Weifeng Qiu and Ke Shi. A mixed DG method and an HDG method for incompressible magnetohydrodynamics. *IMA Journal of Numerical Analysis*, 40(2):1356–1389, April 2020. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/40/2/1356/5289475.

Quell:2000:NSE

[1887] Peter Quell. Nonlinear stability of entropy flux splitting schemes on bounded domains. *IMA Journal of Numerical Analysis*, 20(3):441–459, July 2000. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_20/Issue_03/200441.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_20/Issue_03/pdf/200441.pdf.

Quiroz:2024:PRH

[1888] Daniel Castanon Quiroz and Daniele A. Di Pietro. A pressure-robust HHO method for the solution of the incompressible Navier–Stokes equations on general meshes. *IMA Journal of Numerical Analysis*, 44(1):397–434, January 2024. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/44/1/397/7107917.

Radu:2025:YLF

[1889] Bogdan Radu and Herbert Egger. A Yee-like finite-element scheme for Maxwell's equations on unstructured grids. *IMA Journal of Numerical Analysis*, 45(2):1028–1053, March 2025. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/45/2/1028/7687812.

Radu:2018:RMC

[1890] Florin A. Radu, Kundan Kumar, Jan M. Nordbotten, and Iuliu S. Pop. A robust, mass conservative scheme for two-phase flow in porous media including Hölder continuous nonlinearities. *IMA Journal of Numerical Analysis*, 38(2):884–920, April 18, 2018. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/38/2/884/3883930.

Raina:1983:COQ

[1891] B. L. Raina and N. Kaul. A class of optimal quadrature formulae. *IMA Journal of Numerical Analysis*, 3(1):119–125, 1983. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Ranocha:2021:SSE

[1892] Hendrik Ranocha. On strong stability of explicit Runge–Kutta methods for nonlinear semibounded operators. *IMA Journal of Numerical Analysis*, 41(1):654–682, January 2021. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/41/1/654/5760668.

Rasch:2009:RIF

[1893] Christian Rasch and Thomas Satzger. Remarks on the implementation of the fast marching method. *IMA Journal of Numerical Analysis*, 29(3):806–813, July 2009. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/cgi/content/abstract/29/3/806; http://imajna.oxfordjournals.org/cgi/reprint/29/3/806.

Rathsfeld:1996:EEE

[1894] Andreas Rathsfeld. Error estimates and extrapolation for the numerical solution of Mellin convolution equations. *IMA Journal of Numerical Analysis*, 16(2):217–255, April 1996. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_16/Issue_02/160217.sgm.abs.html.

Ravindran:2019:PTS

[1895] S. S. Ravindran. Partitioned time-stepping scheme for an MHD system with temperature-dependent coefficients. *IMA Journal of Numeri-*

cal Analysis, 39(4):1860–1887, October 2019. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/39/4/1860/5043156`.

Raydan:1993:BBC

[1896] Marcos Raydan. On the Barzilai and Borwein choice of steplength for the gradient method. *IMA Journal of Numerical Analysis*, 13(3):321–326, 1993. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Rebollo:2018:TDM

[1897] T. Chacon Rebollo and D. Yakoubi. A three-dimensional model for two coupled turbulent fluids: numerical analysis of a finite element approximation. *IMA Journal of Numerical Analysis*, 38(4):1927–1958, October 16, 2018. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/38/4/1927/4099779`.

Reddy:2015:RVR

[1898] G. Murali Mohan Reddy and Rajen K. Sinha. Ritz–Volterra reconstructions and a posteriori error analysis of finite element method for parabolic integro-differential equations. *IMA Journal of Numerical Analysis*, 35(1):341–371, January 2015. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/35/1/341`.

Reginska:1986:SEA

[1899] Teresa Regińska. Superconvergence of external approximation of eigenvalues of ordinary differential operators. *IMA Journal of Numerical Analysis*, 6(3):309–323, 1986. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Reifenberg:2000:NSB

[1900] Michèle Reifenberg and Jean-Paul Berrut. Numerical solution of boundary integral equations by means of attenuation factors. *IMA Journal of Numerical Analysis*, 20(1):25–46, January 2000. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://www3.oup.co.uk/imanum/hdb/Volume_20/Issue_01/200025.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_20/Issue_01/pdf/200025.pdf`.

Reisinger:2013:ALD

[1901] Christoph Reisinger. Analysis of linear difference schemes in the sparse grid combination technique. *IMA Journal of Numerical Analysis*, 33(2):544–581, April 2013. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/33/2/544.full.pdf+html`.

Reisinger:2024:EPE

[1902] Christoph Reisinger, Wolfgang Stockinger, and Yufei Zhang. *A posteriori* error estimates for fully coupled McKean–Vlasov forward-backward SDEs. *IMA Journal of Numerical Analysis*, 44 (4):2323–2369, July 2024. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/44/4/2323/7273830`.

Reisinger:2014:INT

[1903] Christoph Reisinger and Alan Whitley. The impact of a natural time change on the convergence of the Crank–Nicolson scheme. *IMA Journal of Numerical Analysis*, 34(3):1156–1192, July 2014. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/34/3/1156.

Ren:2016:APS

[1904] Zhi-Ru Ren and Yang Cao. An alternating positive-semidefinite splitting preconditioner for saddle point problems from time-harmonic eddy current models. *IMA Journal of Numerical Analysis*, 36(2):922–946, April 2016. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/36/2/922.

Fang:2011:SAB

[1905] Haw ren Fang. Stability analysis of block LDL^T factorization for symmetric indefinite matrices. *IMA Journal of Numerical Analysis*, 31(2):528–555, April 2011. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/31/2/528.full.pdf+html.

Repin:2011:GRE

[1906] Sergey I. Repin and Satyendra K. Tomar. Guaranteed and robust error bounds for nonconforming approximations of elliptic problems. *IMA Journal of Numerical Analysis*, 31(2):597–615, April 2011. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/31/2/597.full.pdf+html.

Reusken:2015:ATF

[1907] Arnold Reusken. Analysis of trace finite element methods for surface partial differential equations. *IMA Journal of Numerical Analysis*, 35(4):1568–1590, October 2015. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/35/4/1568.

Reusken:2020:SFF

[1908] Arnold Reusken. Stream function formulation of surface Stokes equations. *IMA Journal of Numerical Analysis*, 40 (1):109–139, January 2020. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/40/1/109/5133699.

Rieger:2020:SIA

[1909] Christian Rieger and Holger Wendland. Sampling inequalities for anisotropic tensor product grids. *IMA Journal of Numerical Analysis*, 40(1):285–321, January 2020. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/40/1/285/5272536.

Riess:1982:MPE

[1910] R. D. Riess, L. W. Johnson, and J. Chen. Maximum precision in Elliott-Donaldson formulae. *IMA Journal of Numerical Analysis*, 2(4):429–435, October 1982. CODEN IJNADH. ISSN

0272-4979 (print), 1464-3642 (electronic).

Rivlin:1983:ORD

[1911] T. J. Rivlin, St. Ruscheweyh, D. Shaffer, and K.-J. Wirths. Optimal recovery of the derivative of bounded analytic functions. *IMA Journal of Numerical Analysis*, 3(3):327–332, 1983. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Robinson:1992:VBE

[1912] P. D. Robinson and A. J. Wathen. Variational bounds on the entries of the inverse of a matrix. *IMA Journal of Numerical Analysis*, 12(4):463–486, 1992. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Rodriguez:2017:GST

[1913] Ana Alonso Rodríguez, Jessika Camañno, Riccardo Ghiloni, and Alberto Valli. Graphs, spanning trees and divergence-free finite elements in domains of general topology. *IMA Journal of Numerical Analysis*, 37(4):1986–2003, October 1, 2017. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL https://academic.oup.com/imajna/article/37/4/1986/2670302.

Rodriguez:2004:MFE

[1914] Ana Alonso Rodríguez, Ralf Hiptmair, and Alberto Valli. Mixed finite element approximation of eddy current problems. *IMA Journal of Numerical Analysis*, 24(2):255–271, April 2004. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_24/Issue_02/240255.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_24/Issue_02/pdf/240255.pdf.

Rodriguez:1993:NIL

[1915] G. Rodriguez and S. Seatzu. On the numerical inversion of the Laplace transform in reproducing kernel Hilbert spaces. *IMA Journal of Numerical Analysis*, 13(3):463–475, 1993. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Romani:2016:EEC

[1916] Lucia Romani, Victoria Hernández Mederos, and Jorge Estrada Sarlabous. Exact evaluation of a class of nonstationary approximating subdivision algorithms and related applications. *IMA Journal of Numerical Analysis*, 36(1):380–399, January 2016. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/36/1/380.

Roos:1996:NCU

[1917] Hans-Görg Roos. A note on the conditioning of upwind schemes on Shishkin meshes. *IMA Journal of Numerical Analysis*, 16(4):529–538, October 1996. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_16/Issue_04/160529.sgm.abs.html.

Rosler:2025:CKG

[1918] Frank Rösler and Christiane Tretter. Computing Klein–Gordon spectra. *IMA Journal of Numerical Analysis*, 45(2):734–776, March 2025. CODEN

IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/45/2/734/7737756.

Rottmann-Matthes:2019:IRS

[1919] Jens Rottmann-Matthes. An IMEX-RK scheme for capturing similarity solutions in the multidimensional Burgers's equation. *IMA Journal of Numerical Analysis*, 39(1):342–373, January 25, 2019. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/39/1/342/4591646.

Roubicek:2020:CTD

[1920] Tomás Roubícek. Coupled time discretization of dynamic damage models at small strains. *IMA Journal of Numerical Analysis*, 40(3): 1772–1791, July 2020. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/40/3/1772/5431182.

Rovas:2006:RBO

[1921] D. V. Rovas, L. Machiels, and Y. Maday. Reduced-basis output bound methods for parabolic problems. *IMA Journal of Numerical Analysis*, 26(3): 423–445, July 2006. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://comjnl.oxfordjournals.org/cgi/content/abstract/26/3/423; http://comjnl.oxfordjournals.org/cgi/reprint/26/3/423.

Ruas:2021:ORF

[1922] Vitoriano Ruas. Optimal-rate finite-element solution of Dirichlet problems in curved domains with straight-edged tetrahedra. *IMA Journal of Numerical Analysis*, 41(2):1368–1410, April 2021. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/41/2/1368/5869588.

Rubensson:2021:LIF

[1923] Emanuel H. Rubensson, Anton G. Artemov, Anastasia Kruchinina, and Elias Rudberg. Localized inverse factorization. *IMA Journal of Numerical Analysis*, 41(1):729–763, January 2021. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/41/1/729/5824482.

Ruf:2022:FSC

[1924] Adrian M. Ruf. Flux-stability for conservation laws with discontinuous flux and convergence rates of the front tracking method. *IMA Journal of Numerical Analysis*, 42 (2):1116–1142, April 2022. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/42/2/1116/6248120.

Rump:2003:OSN

[1925] Siegfried M. Rump. Optimal scaling for p-norms and componentwise distance to singularity. *IMA Journal of Numerical Analysis*, 23(1): 1–9, January 2003. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_23/Issue_01/230001.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_23/Issue_01/pdf/230001.pdf.

Rumpf:2015:VTD

[1926] Martin Rumpf and Benedikt Wirth. Variational time discretization of geodesic calculus. *IMA Journal of Numerical Analysis*, 35(3):1011–1046, July 2015. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/35/3/1011`.

Russo:2011:HFE

[1927] Anahí Dello Russo and Ana Alonso. Hybrid finite element analysis of fluid-structure systems with coupling on curved interfaces. *IMA Journal of Numerical Analysis*, 31(4):1636–1682, October 2011. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/31/4/1636.full.pdf+html`.

Sablonniere:1987:EBH

[1928] Paul Sablonnière. Error bounds for Hermite interpolation by quadratic splines on an α-triangulation. *IMA Journal of Numerical Analysis*, 7(4):495–508, 1987. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Saedpanah:2015:CGF

[1929] Fardin Saedpanah. Continuous Galerkin finite element methods for hyperbolic integro-differential equations. *IMA Journal of Numerical Analysis*, 35(2):885–908, April 2015. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/35/2/885`.

Saito:2007:CUF

[1930] Norikazu Saito. Conservative upwind finite-element method for a simplified Keller–Segel system modelling chemotaxis. *IMA Journal of Numerical Analysis*, 27(2):332–365, April 2007. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/cgi/content/abstract/27/2/332`; `http://imajna.oxfordjournals.org/cgi/reprint/27/2/332`.

Saito:2021:VAD

[1931] Norikazu Saito. Variational analysis of the discontinuous Galerkin time-stepping method for parabolic equations. *IMA Journal of Numerical Analysis*, 41(2):1267–1292, April 2021. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/41/2/1267/5843701`.

Salane:1981:SMN

[1932] D. Salane and R. P. Tewarson. On symmetric minimum norm updates. *IMA Journal of Numerical Analysis*, 1(2):235–240, 1981. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Salaun:2015:LOF

[1933] Michel Salaün and Stéphanie Salmon. Low-order finite element method for the well-posed bidimensional Stokes problem. *IMA Journal of Numerical Analysis*, 35(1):427–453, January 2015. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.`

oxfordjournals.org/content/35/1/427.

Sander:2016:GFE

[1934] Oliver Sander. Geodesic finite elements of higher order. *IMA Journal of Numerical Analysis*, 36(1):238–266, January 2016. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/36/1/238.

Sandstede:1997:CEN

[1935] Björn Sandstede. Convergence estimates for the numerical approximation of homoclinic solutions. *IMA Journal of Numerical Analysis*, 17(3):437–462, July 1997. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_17/Issue_03/170437.sgm.abs.html.

Santos:1988:FEM

[1936] Juan Enrique Santos, Jim Douglas, Jr., Mary E. Morley, and Oscar M. Lovera. Finite element methods for a model for full waveform acoustic logging. *IMA Journal of Numerical Analysis*, 8(4):415–433, October 1988. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Santos-Palomo:2006:UDU

[1937] Ángel Santos-Palomo and Pablo Guerrero-García. Updating and downdating an upper trapezoidal sparse orthogonal factorization. *IMA Journal of Numerical Analysis*, 26(1):1–10, January 2006. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imanum.oxfordjournals.org/cgi/content/abstract/26/1/1; http://imanum.oxfordjournals.org/cgi/reprint/26/1/1.

Sanz-Serna:1981:LIV

[1938] J. M. Sanz-Serna. Linearly implicit variable coefficient methods of Lambert–Sigurdsson type. *IMA Journal of Numerical Analysis*, 1(1):39–45, 1981. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Sanz-Serna:2009:MFE

[1939] J. M. Sanz-Serna. Modulated Fourier expansions and heterogeneous multiscale methods. *IMA Journal of Numerical Analysis*, 29(3):595–605, July 2009. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/cgi/content/abstract/29/3/595; http://imajna.oxfordjournals.org/cgi/reprint/29/3/595.

Sanz-Serna:1991:NCR

[1940] J. M. Sanz-Serna and D. F. Griffiths. A new class of results for the algebraic equations of implicit Runge–Kutta processes. *IMA Journal of Numerical Analysis*, 11(4):449–455, 1991. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Sanz-Serna:1992:NUT

[1941] J. M. Sanz-Serna and A. M. Stuart. A note on uniform in time error estimates for approximations to reaction-diffusion equations. *IMA Journal of Numerical Analysis*, 12(3):457–462, 1992. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

IMA Conference on Dynamics of Numerics and Numerics of Dynamics (Bristol, 1990).

Sanz-Serna:1986:CNS

[1942] J. M. Sanz-Serna and J. G. Verwer. Conservative and nonconservative schemes for the solution of the nonlinear Schrödinger equation. *IMA Journal of Numerical Analysis*, 6(1):25–42, 1986. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Sanz-Serna:2019:SAA

[1943] J. M. Sanz-Serna and Beibei Zhu. A stroboscopic averaging algorithm for highly oscillatory delay problems. *IMA Journal of Numerical Analysis*, 39(3):1110–1133, July 2019. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/39/3/1110/4969764`.

Saranen:1992:QML

[1944] J. Saranen and Ian H. Sloan. Quadrature methods for logarithmic-kernel integral equations on closed curves. *IMA Journal of Numerical Analysis*, 12(2):167–187, 1992. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Sardella:2000:CFE

[1945] Mirko Sardella. On a coupled finite element–finite volume method for convection-diffusion problems. *IMA Journal of Numerical Analysis*, 20(2):281–301, April 2000. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://www3.oup.co.uk/imanum/hdb/Volume_20/Issue_02/200281.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_20/Issue_02/pdf/200281.pdf`.

Saunders:1984:VIS

[1946] R. Saunders, J. Caldwell, and P. Wanless. A variational-iterative scheme applied to Burgers' equation. *IMA Journal of Numerical Analysis*, 4(3):349–362, July 1984. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Sauter:2010:REA

[1947] Martin Sauter and Christian Wieners. Robust estimates for the approximation of the dynamic consolidation problem. *IMA Journal of Numerical Analysis*, 30(3):832–856, July 2010. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/cgi/content/abstract/30/3/832; http://imajna.oxfordjournals.org/cgi/reprint/30/3/832`.

Sauter:2014:RBI

[1948] S. Sauter and A. Veit. Retarded boundary integral equations on the sphere: exact and numerical solution. *IMA Journal of Numerical Analysis*, 34(2):675–699, April 2014. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/34/2/675.full.pdf+html`.

Sayer:1983:SAI

[1949] F. P. Sayer. Some aspects of infinite systems of linear simultaneous equations. *IMA Journal of Numerical Analysis*, 3(3):333–340, 1983. CODEN IJ-

NADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Schagen:1984:SEU

[1950] I. P. Schagen. Sequential exploration of unknown multidimensional functions as an aid to optimization. *IMA Journal of Numerical Analysis*, 4(3): 337–347, July 1984. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Schatzle:2000:PZC

[1951] Reiner Schätzle. On the perturbation of the zeros of complex polynomials. *IMA Journal of Numerical Analysis*, 20 (2):185–202, April 2000. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://www3.oup.co.uk/imanum/hdb/Volume_20/Issue_02/200185.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_20/Issue_02/pdf/200185.pdf`.

Schecter:1995:RCN

[1952] Stephen Schecter. Rate of convergence of numerical approximations to homoclinic bifurcation points. *IMA Journal of Numerical Analysis*, 15(1):23–60, 1995. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Schittkowski:1983:NSC

[1953] Klaus Schittkowski. The numerical solution of constrained linear least-squares problems. *IMA Journal of Numerical Analysis*, 3(1):11–36, 1983. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Schlichting:2022:SGS

[1954] André Schlichting and Christian Seis. The Scharfetter–Gummel scheme for aggregation-diffusion equations. *IMA Journal of Numerical Analysis*, 42 (3):2361–2402, July 2022. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/42/3/2361/6277327`.

Schmitt:2001:EAR

[1955] Bernhard A. Schmitt and Rüdiger Weiner. Equilibrium attractivity of Runge–Kutta methods. *IMA Journal of Numerical Analysis*, 21(1):327–348, January 2001. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://www3.oup.co.uk/imanum/hdb/Volume_21/Issue_01/210327.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_21/Issue_01/pdf/210327.pdf`.

Schmitt:2018:PHV

[1956] Jeremy M. Schmitt and Melvin Leok. Properties of Hamiltonian variational integrators. *IMA Journal of Numerical Analysis*, 38(1):377–398, January 25, 2018. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/38/1/377/3065609`.

Schoberl:2008:ASP

[1957] Joachim Schöberl, Jens M. Melenk, Clemens Pechstein, and Sabine Zaglmayr. Additive Schwarz preconditioning for p-version triangular and tetrahedral finite elements. *IMA Journal of Numerical Analysis*, 28 (1):1–24, January 2008. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/cgi/content/abstract/28/1/1; http:`

//imajna.oxfordjournals.org/cgi/reprint/28/1/1.

Schock:1985:ASC

[1958] Eberhard Schock. Arbitrarily slow convergence, uniform convergence and superconvergence of Galerkin-like methods. *IMA Journal of Numerical Analysis*, 5(2):153–160, 1985. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Scholtes:2022:VCD

[1959] Sebastian Scholtes, Henrik Schumacher, and Max Wardetzky. Variational convergence of discrete elasticae. *IMA Journal of Numerical Analysis*, 42 (1):300–332, January 2022. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/42/1/300/6041855.

Schonfelder:1981:ECP

[1960] J. L. Schonfelder and M. Razaz. Error control with polynomial approximations. *IMA Journal of Numerical Analysis*, 1(1):105–114, 1981. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Schoombie:1982:SPG

[1961] S. W. Schoombie. Spline Petrov–Galerkin methods for the numerical solution of the Korteweg–de Vries equation. *IMA Journal of Numerical Analysis*, 2(1):95–109, January 1982. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Schoombie:1991:SPS

[1962] S. W. Schoombie. Stability properties and spurious period two solutions in a numerical scheme for a reaction-diffusion equation with nonlinear diffusion. *IMA Journal of Numerical Analysis*, 11(4):553–578, 1991. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Schoombie:1981:EES

[1963] S. W. Schoombie and J. F. Botha. Error estimates for the solution of the radial Schrödinger equation by the Rayleigh–Ritz finite element method. *IMA Journal of Numerical Analysis*, 1(1):47–63, 1981. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Schotzau:2021:ECM

[1964] Dominik Schötzau, Carlo Marcati, and Christoph Schwab. Exponential convergence of mixed hp-DGFEM for the incompressible Navier–Stokes equations in R^2. *IMA Journal of Numerical Analysis*, 41(3):1966–1999, July 2021. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/41/3/1966/5900313.

Schotzau:2001:ECG

[1965] Dominik Schötzau and Christoph Schwab. Exponential convergence in a Galerkin least squares hp-FEM for Stokes flow. *IMA Journal of Numerical Analysis*, 21(1):53–80, January 2001. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_21/Issue_01/210053.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_21/Issue_01/pdf/210053.pdf.

Schotzau:2004:MHD

[1966] Dominik Schötzau, Christoph Schwab, and Andrea Toselli. Mixed hp-DGFEM for incompressible flows II: Geometric edge meshes. *IMA Journal of Numerical Analysis*, 24(2): 273–308, April 2004. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_24/Issue_02/240273.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_24/Issue_02/pdf/240273.pdf.

Schroll:1996:FDS

[1967] Hans Joachim Schroll and Ragnar Winther. Finite-difference schemes for scalar conservation laws with source terms. *IMA Journal of Numerical Analysis*, 16(2):201–215, April 1996. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_16/Issue_02/160201.sgm.abs.html.

Schropp:2000:OSM

[1968] Johannes Schropp. One-step and multistep procedures for constrained minimization problems. *IMA Journal of Numerical Analysis*, 20(1):135–152, January 2000. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_20/Issue_01/200135.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_20/Issue_01/pdf/200135.pdf.

Schropp:2008:PRK

[1969] Johannes Schropp. Projected Runge–Kutta methods for index 3 differential–algebraic equations near equilibria, periodic orbits and attracting sets. *IMA Journal of Numerical Analysis*, 28(2):274–291, April 2008. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/cgi/content/abstract/28/2/274; http://imajna.oxfordjournals.org/cgi/reprint/28/2/274.

Schutz:2014:ACA

[1970] Jochen Schütz and Georg May. An adjoint consistency analysis for a class of hybrid mixed methods. *IMA Journal of Numerical Analysis*, 34(3):1222–1239, July 2014. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/34/3/1222.

Schweizer:2024:RBD

[1971] B. Schweizer, M. Schäffner, and Y. Tjandrawidjaja. A radiation box domain truncation scheme for the wave equation. *IMA Journal of Numerical Analysis*, 44(2):920–944, March 2024. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/44/2/920/7176047.

Scott:1988:EOC

[1972] Jennifer Scott and Sean McKee. On the exact order of convergence of discrete methods for Volterra-type equations. *IMA Journal of Numerical Analysis*, 8 (4):511–515, October 1988. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Seguin:2020:APD

[1973] Nicolas Seguin and Magali Tournus. Asymptotic preserving discretization of a Jin–Xin model with implicit equilibrium manifold on a bounded domain. *IMA Journal of Numerical Analysis*, 40 (1):530–562, January 2020. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/40/1/530/5264877.

Selwood:1996:CRC

[1974] P. M. Selwood and A. J. Wathen. Convergence rates and classification for one-dimensional finite-element meshes. *IMA Journal of Numerical Analysis*, 16 (1):65–74, January 1996. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_16/Issue_01/160065.sgm.abs.html.

Semper:1994:LFE

[1975] Bill Semper. Locking in finite-element approximations to long thin extensible beams. *IMA Journal of Numerical Analysis*, 14(1):97–109, 1994. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Sete:2020:NMH

[1976] Olivier Sète and Jan Zur. A Newton method for harmonic mappings in the plane. *IMA Journal of Numerical Analysis*, 40(4):2777–2801, October 2020. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/40/4/2777/5628133.

Sete:2022:TIM

[1977] Olivier Sète and Jan Zur. The transport of images method: computing all zeros of harmonic mappings by continuation. *IMA Journal of Numerical Analysis*, 42(3):2403–2428, July 2022. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/42/3/2403/6295138.

Seward:1984:SHO

[1978] W. L. Seward, G. Fairweather, and R. L. Johnston. A survey of higher-order methods for the numerical integration of semidiscrete parabolic problems. *IMA Journal of Numerical Analysis*, 4(4):375–425, October 1984. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Shampine:1983:EEM

[1979] L. F. Shampine. Efficient extrapolation methods for ODEs. *IMA Journal of Numerical Analysis*, 3(4):383–395, 1983. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Shampine:1985:EEM

[1980] L. F. Shampine. Efficient extrapolation methods for ODEs. II. *IMA Journal of Numerical Analysis*, 5(1):23–28, 1985. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Shampine:1988:SVI

[1981] L. F. Shampine. Solving Volterra integral equations with ODE codes. *IMA Journal of Numerical Analysis*, 8(1):37–41, 1988. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Sharon:2013:ASF

[1982] Nir Sharon and Uri Itai. Approximation schemes for functions of positive-definite matrix values. *IMA Journal of Numerical Analysis*, 33(4):1436–1468, October 2013. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/33/4/1436.full.pdf+html.

Sharp:2004:CID

[1983] P. W. Sharp. Comparisons of integrators on a diverse collection of restricted three-body test problems. *IMA Journal of Numerical Analysis*, 24(4):557–575, October 2004. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imanum.oupjournals.org/cgi/content/abstract/24/4/557; http://imanum.oupjournals.org/cgi/reprint/24/4/557.

Sharp:1990:TST

[1984] P. W. Sharp, J. M. Fine, and K. Burrage. Two-stage and three-stage diagonally implicit Runge–Kutta Nyström methods of orders three and four. *IMA Journal of Numerical Analysis*, 10(4):489–504, 1990. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Shaw:2010:DEM

[1985] S. Shaw, M. K. Warby, and J. R. Whiteman. Discretization error and modelling error in the context of the rapid inflation of hyperelastic membranes. *IMA Journal of Numerical Analysis*, 30(1):302–333, January 2010. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/cgi/content/abstract/30/1/302; http://imajna.oxfordjournals.org/cgi/reprint/30/1/302.

Sheen:2003:PMT

[1986] Dongwoo Sheen, Ian H. Sloan, and Vidar Thomée. A parallel method for time discretization of parabolic equations based on Laplace transformation and quadrature. *IMA Journal of Numerical Analysis*, 23(2):269–299, April 2003. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_23/Issue_02/230269.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_23/Issue_02/pdf/230269.pdf.

Shen:1999:EBF

[1987] Wen Shen. Error bounds of finite difference schemes for multidimensional scalar conservation laws with source terms. *IMA Journal of Numerical Analysis*, 19(1):77–89, January 1999. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_19/Issue_01/190077.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_19/Issue_01/pdf/190077.pdf.

Shen:2006:TAS

[1988] Xunyang Shen and Peter R. Turner. Taylor approximation for symmetric level-index arithmetic processing. *IMA Journal of Numerical Analysis*, 26(3):584–603, July 2006. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://comjnl.oxfordjournals.org/cgi/content/abstract/26/3/584; http://comjnl.oxfordjournals.org/cgi/reprint/26/3/584.

Sheng:1989:SLP

[1989] Q. Sheng. Solving linear partial differential equations by exponential splitting. *IMA Journal of Numerical Analysis*, 9(2):199–212, 1989. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Sheng:1994:GEE

[1990] Qin Sheng. Global error estimates for exponential splitting. *IMA Journal of Numerical Analysis*, 14(1):27–56, 1994. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Shih:2000:IMS

[1991] Yin-Tzer Shih and Howard C. Elman. Iterative methods for stabilized discrete convection-diffusion problems. *IMA Journal of Numerical Analysis*, 20(3):333–358, 2000. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_20/Issue_03/200333.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_20/Issue_03/pdf/200333.pdf.

Shingel:2009:ISO

[1992] Tatiana Shingel. Interpolation in special orthogonal groups. *IMA Journal of Numerical Analysis*, 29(3):731–745, July 2009. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/cgi/content/abstract/29/3/731; http://imajna.oxfordjournals.org/cgi/reprint/29/3/731.

Sidi:2012:UFE

[1993] Avram Sidi. A user-friendly extrapolation method for computing infinite range integrals of products of oscillatory functions. *IMA Journal of Numerical Analysis*, 32(2):602–631, April 2012. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/32/2/602.full.pdf+html.

Sidi:1982:RAT

[1994] Avram Sidi and David Levin. Rational approximations from the d-transformation. *IMA Journal of Numerical Analysis*, 2(2):153–167, April 1982. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Siebert:2011:CPA

[1995] Kunibert G. Siebert. A convergence proof for adaptive finite elements without lower bound. *IMA Journal of Numerical Analysis*, 31(3):947–970, July 2011. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/31/3/947.full.pdf+html.

Simoncini:2020:NSC

[1996] Valeria Simoncini. On the numerical solution of a class of systems of linear matrix equations. *IMA Journal of Numerical Analysis*, 40(1):207–225, January 2020. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.

oup.com/imajna/article/40/1/207/5195702.

Simoncini:2014:TNM

[1997] Valeria Simoncini, Daniel B. Szyld, and Marlliny Monsalve. On two numerical methods for the solution of large-scale algebraic Riccati equations. *IMA Journal of Numerical Analysis*, 34(3): 904–920, July 2014. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/34/3/904.

Simos:1991:SNF

[1998] T. E. Simos. Some new four-step exponential-fitting methods for the numerical solution of the radial Schrödinger equation. *IMA Journal of Numerical Analysis*, 11(3):347–356, 1991. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Simos:2001:FAO

[1999] T. E. Simos. A fourth algebraic order exponentially-fitted Runge–Kutta method for the numerical solution of the Schrödinger equation. *IMA Journal of Numerical Analysis*, 21(4): 919–931, October 2001. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_21/Issue_04/210919.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_21/Issue_04/pdf/210919.pdf.

Simpson:1994:TEA

[2000] R. B. Simpson. Testing for effects of asymmetry and instability on preconditioned iterations of conjugate gradient type. *IMA Journal of Numerical Analysis*, 14(1):1–25, 1994. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Singler:2011:CSA

[2001] John R. Singler. Convergent snapshot algorithms for infinite-dimensional Lyapunov equations. *IMA Journal of Numerical Analysis*, 31(4):1468–1496, October 2011. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/31/4/1468.full.pdf+html.

Sinha:2007:UFE

[2002] Rajen Kumar Sinha and Bhupen Deka. An unfitted finite-element method for elliptic and parabolic interface problems. *IMA Journal of Numerical Analysis*, 27(3):529–549, July 2007. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/cgi/content/abstract/27/3/529; http://imajna.oxfordjournals.org/cgi/reprint/27/3/529.

Skrobanski:1990:BNM

[2003] J. J. Skrobański. Bounded-norm matrix-inverse mappings. *IMA Journal of Numerical Analysis*, 10(4):537–554, 1990. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Slevinsky:2018:UHA

[2004] Richard Mikaël Slevinsky. On the use of Hahn's asymptotic formula and stabilized recurrence for a fast, simple and stable Chebyshev–Jacobi transform. *IMA Journal of Numerical Analysis*, 38(1):102–124, January 25, 2018.

CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/38/1/102/3038020.

Sloan:1981:SAC

[2005] D. M. Sloan. Stability and accuracy of a class of numerical boundary conditions for the advection equation. *IMA Journal of Numerical Analysis*, 1(3):285–301, 1981. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Sloan:1986:PMI

[2006] I. H. Sloan and A. Spence. Projection methods for integral equations on the half-line. *IMA Journal of Numerical Analysis*, 6(2):153–172, 1986. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Sloan:1988:GMIa

[2007] I. H. Sloan and A. Spence. The Galerkin method for integral equations of the first kind with logarithmic kernel: applications. *IMA Journal of Numerical Analysis*, 8(1):123–140, 1988. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Sloan:1988:GMIb

[2008] I. H. Sloan and A. Spence. The Galerkin method for integral equations of the first kind with logarithmic kernel: theory. *IMA Journal of Numerical Analysis*, 8(1):105–122, 1988. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Sloan:1984:FVG

[2009] Ian H. Sloan. Four variants of the Galerkin method for integral equations of the second kind. *IMA Journal of Numerical Analysis*, 4(1):9–17, January 1984. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Sloan:1993:FOC

[2010] Ian H. Sloan, Dat Tran, and Graeme Fairweather. A fourth-order cubic spline method for linear second-order two-point boundary value problems. *IMA Journal of Numerical Analysis*, 13(4):591–607, 1993. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Slodicka:2006:TDS

[2011] M. Slodicka. A time discretization scheme for a non-linear degenerate eddy current model for ferromagnetic materials. *IMA Journal of Numerical Analysis*, 26(1):173–187, January 2006. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imanum.oxfordjournals.org/cgi/content/abstract/26/1/173; http://imanum.oxfordjournals.org/cgi/reprint/26/1/173.

Small:1988:CDN

[2012] R. D. Small and R. J. Charron. Continuous and discrete nonlinear approximations based on Fourier series. *IMA Journal of Numerical Analysis*, 8(3):281–293, 1988. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Smarzewski:1983:UCC

[2013] R. Smarzewski and A. Bujalska. Uniform convergence of cubic and quadratic X-spline interpolants. *IMA Journal of Numerical Analysis*, 3(3):

353–372, 1983. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Smears:2017:REP

[2014] Iain Smears. Robust and efficient preconditioners for the discontinuous Galerkin time-stepping method. *IMA Journal of Numerical Analysis*, 37(4): 1961–1985, October 1, 2017. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL https://academic.oup.com/imajna/article/37/4/1961/2433377.

Smith:1997:IAT

[2015] Antony Smith and David Silvester. Implicit algorithms and their linearization for the transient incompressible Navier–Stokes equations. *IMA Journal of Numerical Analysis*, 17(4):527–545, October 1997. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_17/Issue_04/170527.sgm.abs.html.

Smitheman:2010:SCM

[2016] S. A. Smitheman, E. A. Spence, and A. S. Fokas. A spectral collocation method for the Laplace and modified Helmholtz equations in a convex polygon. *IMA Journal of Numerical Analysis*, 30(4):1184–1205, October 2010. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/30/4/1184.full.pdf+html.

Sogn:2019:SCP

[2017] Jarle Sogn and Walter Zulehner. Schur complement preconditioners for multiple saddle point problems of block tridiagonal form with application to optimization problems. *IMA Journal of Numerical Analysis*, 39(3): 1328–1359, July 2019. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/39/3/1328/5000058.

Solano:2022:HMD

[2018] Manuel Solano, Sébastien Terrana, Ngoc-Cuong Nguyen, and Jaime Peraire. An HDG method for dissimilar meshes. *IMA Journal of Numerical Analysis*, 42(2):1665–1699, April 2022. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/42/2/1665/6347737.

Soler:1990:VFM

[2019] Juan Soler. Vortex filament method. *IMA Journal of Numerical Analysis*, 10 (1):75–102, January 1990. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Sonar:1996:ORU

[2020] Thomas Sonar. Optimal recovery using thin plate splines in finite volume methods for the numerical solution of hyperbolic conservation laws. *IMA Journal of Numerical Analysis*, 16(4): 549–581, October 1996. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_16/Issue_04/160549.sgm.abs.html.

Song:2022:MHV

[2021] L. Song and L. N. Vicente. Modeling Hessian-vector products in nonlinear optimization: new Hessian-free methods. *IMA Journal of Numerical Analysis*, 42(2):1766–1788, April 2022. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/42/2/1766/6199349.

Sorokina:2014:RSC

[2022] T. Sorokina. Redundancy of smoothness conditions and supersmoothness of bivariate splines. *IMA Journal of Numerical Analysis*, 34(4):1701–1714, October 2014. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/34/4/1701.

Sorokina:2007:LQI

[2023] Tatyana Sorokina and Frank Zeilfelder. Local quasi-interpolation by cubic C^1 splines on type-6 tetrahedral partitions. *IMA Journal of Numerical Analysis*, 27(1):74–101, January 2007. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/cgi/content/abstract/27/1/74; http://imajna.oxfordjournals.org/cgi/reprint/27/1/74.

Sousa:2022:CAG

[2024] Ercília Sousa. Consistency analysis of the Grünwald–Letnikov approximation in a bounded domain. *IMA Journal of Numerical Analysis*, 42(3):2771–2793, July 2022. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/42/3/2771/6310602.

Speleers:2008:MMP

[2025] Hendrik Speleers, Paul Dierckx, and Stefan Vandewalle. Multigrid methods with Powell–Sabin splines. *IMA Journal of Numerical Analysis*, 28(4):888–908, October 2008. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/cgi/content/abstract/28/4/888.

Spence:1983:SPG

[2026] A. Spence and K. S. Thomas. On superconvergence properties of Galerkin's method for compact operator equations. *IMA Journal of Numerical Analysis*, 3(3):253–271, 1983. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Spence:1982:NTP

[2027] A. Spence and B. Werner. Nonsimple turning points and cusps. *IMA Journal of Numerical Analysis*, 2(4):413–427, October 1982. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Srivastav:1983:NSSb

[2028] R. P. Srivastav. Numerical solution of singular integral equations using Gauss-type formulae. I. Quadrature and collocation on Chebyshev nodes. *IMA Journal of Numerical Analysis*, 3(3):305–318, 1983. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Srivastav:1983:NSSa

[2029] R. P. Srivastav and Erica Jen. Numerical solution of singular integral equations using Gauss-type formulae.

II. Lobatto-Chebyshev quadrature and collocation on Chebyshev nodes. *IMA Journal of Numerical Analysis*, 3(3): 319–325, 1983. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Stein:1997:BHF

[2030] O. Stein. Bifurcations of hyperbolic fixed points for explicit Runge–Kutta methods. *IMA Journal of Numerical Analysis*, 17(2):151–175, April 1997. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_17/Issue_02/170151.sgm.abs.html. See erratum [2031].

Stein:1998:EBH

[2031] O. Stein. Erratum: "Bifurcations of hyperbolic fixed points for explicit Runge–Kutta methods" [IMA J. Numer. Anal. **17** (1997), no. 2, 151–175; MR 98d:65103]. *IMA Journal of Numerical Analysis*, 18(2): 329, April 1998. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_18/Issue_02/180329.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_18/Issue_02/pdf/180329.pdf. See [2030].

Steinbach:2016:TFP

[2032] Olaf Steinbach, Barbara Wohlmuth, and Linus Wunderlich. Trace and flux a priori error estimates in finite-element approximations of Signorni-type problems. *IMA Journal of Numerical Analysis*, 36(3):1072–1095, July 2016. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/36/3/1072.

Stephan:2000:DDA

[2033] Ernst P. Stephan and Thanh Tran. Domain decomposition algorithms for indefinite weakly singular integral equations: the h and p versions. *IMA Journal of Numerical Analysis*, 20(1): 1–24, January 2000. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_20/Issue_01/200001.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_20/Issue_01/pdf/200001.pdf.

Stevenson:2008:CDO

[2034] Rob Stevenson and Manuel Werner. Computation of differential operators in aggregated wavelet frame coordinates. *IMA Journal of Numerical Analysis*, 28(2):354–381, April 2008. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/cgi/content/abstract/28/2/354; http://imajna.oxfordjournals.org/cgi/reprint/28/2/354.

Stevenson:2021:SGD

[2035] Rob Stevenson and Jan Westerdiep. Stability of Galerkin discretizations of a mixed space–time variational formulation of parabolic evolution equations. *IMA Journal of Numerical Analysis*, 41(1):28–47, January 2021. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/41/1/28/5721757.

Stevenson:2014:FOS

[2036] Rob P. Stevenson. First-order system least squares with inhomogeneous boundary conditions. *IMA Journal of Numerical Analysis*, 34(3):863–878, July 2014. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/34/3/863`.

Stewart:1997:PCF

[2037] G. W. Stewart. On the perturbation of *LU* and Cholesky factors. *IMA Journal of Numerical Analysis*, 17 (1):1–6, January 1997. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://www3.oup.co.uk/imanum/hdb/Volume_17/Issue_01/170001.sgm.abs.html`.

Stewart:1997:TMG

[2038] G. W. Stewart. The triangular matrices of Gaussian elimination and related decompositions. *IMA Journal of Numerical Analysis*, 17(1):7–16, January 1997. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://www3.oup.co.uk/imanum/hdb/Volume_17/Issue_01/170007.sgm.abs.html`.

Stoll:2014:OSS

[2039] Martin Stoll. One-shot solution of a time-dependent time-periodic PDE-constrained optimization problem. *IMA Journal of Numerical Analysis*, 34(4):1554–1577, October 2014. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/34/4/1554`.

Strauss:2011:QPM

[2040] Michael Strauss. Quadratic projection methods for approximating the spectrum of self-adjoint operators. *IMA Journal of Numerical Analysis*, 31(1):40–60, January 2011. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/31/1/40.full.pdf+html`.

Streit:1989:EET

[2041] Uwe Streit. An efficient enthalpy-type method for the Stefan problem. *IMA Journal of Numerical Analysis*, 9(3):353–372, 1989. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Strossner:2023:FGS

[2042] Christoph Strössner and Daniel Kressner. Fast global spectral methods for three-dimensional partial differential equations. *IMA Journal of Numerical Analysis*, 43(3):1519–1542, May 2023. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/43/3/1519/6628875`.

Stuart:1989:LII

[2043] Andrew Stuart. Linear instability implies spurious periodic solutions. *IMA Journal of Numerical Analysis*, 9(4):465–486, 1989. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Styles:2001:EEF

[2044] Vanessa Styles. Error estimates for a finite-difference approximation of a mean field model of superconducting vortices in one-dimension. *IMA Journal of Numerical Analysis*, 21(3): 667–701, July 2001. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_21/Issue_03/210667.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_21/Issue_03/pdf/210667.pdf.

Stynes:2015:FDM

[2045] Martin Stynes and José Luis Gracia. A finite difference method for a two-point boundary value problem with a Caputo fractional derivative. *IMA Journal of Numerical Analysis*, 35(2):698–721, April 2015. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/35/2/698.

Stynes:2001:SDM

[2046] Martin Stynes and Lutz Tobiska. The streamline-diffusion method for nonconforming Q elements on rectangular tensor-product meshes. *IMA Journal of Numerical Analysis*, 21(1): 123–142, January 2001. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_21/Issue_01/210123.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_21/Issue_01/pdf/210123.pdf.

Su:2018:EEF

[2047] Chunmei Su and Wenfan Yi. Error estimates of a finite difference method for the Klein–Gordon–Zakharov system in the subsonic limit regime. *IMA Journal of Numerical Analysis*, 38(4): 2055–2073, October 16, 2018. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/38/4/2055/4082920.

Suli:2020:FDF

[2048] Endre Süli and Tabea Tscherpel. Fully discrete finite element approximation of unsteady flows of implicitly constituted incompressible fluids. *IMA Journal of Numerical Analysis*, 40(2):801–849, April 2020. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/40/2/801/5310121.

Sun:1995:FEMb

[2049] Guang Fu Sun and Martin Stynes. Finite-element methods for singularly perturbed high-order elliptic two-point boundary value problems. I. Reaction-diffusion-type problems. *IMA Journal of Numerical Analysis*, 15(1):117–139, 1995. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Sun:1995:FEMa

[2050] Guang Fu Sun and Martin Stynes. Finite-element methods for singularly perturbed high-order elliptic two-point boundary value problems. II. Convection-diffusion-type problems. *IMA Journal of Numerical Analysis*, 15(2):197–219, 1995. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Sun:1996:OBP

[2051] Ji-Guang Sun. Optimal backward perturbation bounds for the linear least-squares problem with multiple right-hand sides. *IMA Journal of Numerical Analysis*, 16(1): 1–11, January 1996. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://www3.oup.co.uk/imanum/hdb/Volume_16/Issue_01/160001.sgm.abs.html`.

Sun:2023:EIE

[2052] Ting Sun and Chunxiong Zheng. Efficient implementation of the exact artificial boundary condition for the exterior problem of the Stokes system in three dimensions. *IMA Journal of Numerical Analysis*, 43(2): 1061–1088, March 2023. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/43/2/1061/6533827`.

Sun:2008:IQR

[2053] Weiwei Sun and Jiming Wu. Interpolatory quadrature rules for Hadamard finite-part integrals and their superconvergence. *IMA Journal of Numerical Analysis*, 28(3):580–597, July 2008. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/cgi/content/abstract/28/3/580`; `http://imajna.oxfordjournals.org/cgi/reprint/28/3/580`.

Sun:2001:NAE

[2054] Xiaodi Sun. Numerical analysis of an exponentially ill-conditioned boundary value problem with applications to metastable problems. *IMA Journal of Numerical Analysis*, 21(4):817–842, October 2001. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://www3.oup.co.uk/imanum/hdb/Volume_21/Issue_04/210817.sgm.abs.html`; `http://www3.oup.co.uk/imanum/hdb/Volume_21/Issue_04/pdf/210817.pdf`.

Surla:1990:SUC

[2055] K. Surla and Z. Uzelac. Some uniformly convergent spline difference schemes for singularly perturbed boundary value problems. *IMA Journal of Numerical Analysis*, 10(2):209–222, 1990. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Sutton:2024:SDN

[2056] Brian D. Sutton. Simultaneous diagonalization of nearly commuting Hermitian matrices: do-one-then-do-the-other. *IMA Journal of Numerical Analysis*, 44(2):1061–1089, March 2024. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/44/2/1061/7192244`.

Sutton:2020:LTP

[2057] Oliver J. Sutton. Long-time $L^\infty(L^2)$ a posteriori error estimates for fully discrete parabolic problems. *IMA Journal of Numerical Analysis*, 40(1):498–529, January 2020. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/40/1/498/5256710`.

Szyld:2014:SPI

[2058] Daniel B. Szyld and Fei Xue. Several properties of invariant pairs of nonlinear algebraic eigenvalue problems. *IMA Journal of Numerical Analysis*, 34(3): 921–954, July 2014. CODEN IJNADH.

ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/34/3/921.

Tadmor:2005:AFP

[2059] Eitan Tadmor and Jared Tanner. Adaptive filters for piecewise smooth spectral data. *IMA Journal of Numerical Analysis*, 25(4):635–647, October 2005. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imanum.oxfordjournals.org/cgi/reprint/25/4/635.

Taguchi:2022:EEA

[2060] Dai Taguchi, Akihiro Tanaka, and Tomooki Yuasa. L^q-error estimates for approximation of irregular functionals of random vectors. *IMA Journal of Numerical Analysis*, 42(1):840–873, January 2022. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/42/1/840/6102276.

Tan:1987:CDE

[2061] Roger C. E. Tan. Computing derivatives of eigensystems by the vector ϵ-algorithm. *IMA Journal of Numerical Analysis*, 7(4):485–494, 1987. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Tan:1989:CDE

[2062] Roger C. E. Tan and Alan L. Andrew. Computing derivatives of eigenvalues and eigenvectors by simultaneous iteration. *IMA Journal of Numerical Analysis*, 9(1):111–122, 1989. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Tan:2020:STP

[2063] Wee Chin Tan and Viet Ha Hoang. Sparse tensor product finite element method for nonlinear multiscale variational inequalities of monotone type. *IMA Journal of Numerical Analysis*, 40(3):1875–1907, July 2020. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/40/3/1875/5380580.

Tanaka:2016:FAN

[2064] Ken'ichiro Tanaka. A fast and accurate numerical method for symmetric Lévy processes based on the Fourier transform and sinc-Gauss sampling formula. *IMA Journal of Numerical Analysis*, 36(3):1362–1388, July 2016. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/36/3/1362.

Tanaka:2017:PTA

[2065] Ken'ichiro Tanaka, Tomoaki Okayama, and Masaaki Sugihara. Potential theoretic approach to design of accurate formulas for function approximation in symmetric weighted Hardy spaces. *IMA Journal of Numerical Analysis*, 37(2):861–904, April 2017. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL https://academic.oup.com/imajna/article/37/2/861/2669979/Potential-theoretic-approach-to-design-of-accurate.

Tanaka:2019:DAF

[2066] Ken'ichiro Tanaka and Masaaki Sugihara. Design of accurate formulas for approximating functions in weighted Hardy spaces by discrete energy minimization. *IMA Journal of Numerical Analysis*, 39(4):1957–1984, October 2019. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/39/4/1957/5075943.

Tang:1993:NCM

[2067] Tao Tang. A note on collocation methods for Volterra integro-differential equations with weakly singular kernels. *IMA Journal of Numerical Analysis*, 13(1):93–99, 1993. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Tang:2022:SAG

[2068] Xiao Tang and Jie Xiong. Stability analysis of general multistep methods for Markovian backward stochastic differential equations. *IMA Journal of Numerical Analysis*, 42(2):1789–1805, April 2022. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/42/2/1789/6263485.

Tao:2016:VLI

[2069] Molei Tao and Houman Owhadi. Variational and linearly implicit integrators, with applications. *IMA Journal of Numerical Analysis*, 36(1):80–107, January 2016. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/36/1/80.

Tarvainen:1999:TLS

[2070] Pasi Tarvainen. Two-level Schwarz method for unilateral variational inequalities. *IMA Journal of Numerical Analysis*, 19(2):273–290, April 1999. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_19/Issue_02/190273.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_19/Issue_02/pdf/190273.pdf.

Taylor:2010:LCL

[2071] Rodney Taylor and Vilmos Totik. Lebesgue constants for Leja points. *IMA Journal of Numerical Analysis*, 30(2):462–486, April 2010. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/cgi/content/abstract/30/2/462; http://imajna.oxfordjournals.org/cgi/reprint/30/2/462.

teRiele:1982:CMW

[2072] Herman J. J. te Riele. Collocation methods for weakly singular second-kind Volterra integral equations with nonsmooth solution. *IMA Journal of Numerical Analysis*, 2(4):437–449, October 1982. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Thatcher:1982:CSD

[2073] R. W. Thatcher and S. L. Askew. A complementary solution to the dam problem. *IMA Journal of Numerical Analysis*, 2(2):229–239, April 1982. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Editors:2001:E

[2074] The Editors. Editorial. *IMA Journal of Numerical Analysis*, 21(1):0, January 2001. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_21/Issue_01/210000.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_21/Issue_01/pdf/210000.pdf.

Ting:1981:CPB

[2075] B. Y. Ting and Y. L. Luke. Conversion of polynomials between different polynomial bases. *IMA Journal of Numerical Analysis*, 1(2):229–234, 1981. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Titarev:2007:AAA

[2076] V. A. Titarev and E. F. Toro. Analysis of ADER and ADER-WAF schemes. *IMA Journal of Numerical Analysis*, 27(3):616–630, July 2007. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/cgi/content/abstract/27/3/616; http://imajna.oxfordjournals.org/cgi/reprint/27/3/616.

Titley-Peloquin:2014:GCB

[2077] David Titley-Peloquin, Jennifer Pestana, and Andrew J. Wathen. GMRES convergence bounds that depend on the right-hand-side vector. *IMA Journal of Numerical Analysis*, 34(2):462–479, April 2014. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/34/2/462.full.pdf+html.

Tobiska:2015:RPE

[2078] L. Tobiska and R. Verfürth. Robust a posteriori error estimates for stabilized finite element methods. *IMA Journal of Numerical Analysis*, 35(4):1652–1671, October 2015. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/35/4/1652.

Todd:1989:CPA

[2079] Michael J. Todd. On convergence properties of algorithms for unconstrained minimization. *IMA Journal of Numerical Analysis*, 9(3):435–441, 1989. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Todor:2009:NAE

[2080] Radu-Alexandru Todor. A new approach to energy-based sparse finite-element spaces. *IMA Journal of Numerical Analysis*, 29(1):72–85, January 2009. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Todor:2007:CRS

[2081] Radu Alexandru Todor and Christoph Schwab. Convergence rates for sparse chaos approximations of elliptic problems with stochastic coefficients. *IMA Journal of Numerical Analysis*, 27(2):232–261, April 2007. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/cgi/content/abstract/27/2/232; http://imajna.oxfordjournals.org/cgi/reprint/27/2/232.

Toint:1988:GCC

[2082] Ph. L. Toint. Global convergence of a class of trust-region methods for nonconvex minimization in Hilbert space. *IMA Journal of Numerical Analysis*, 8(2):231–252, 1988. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Torelli:1993:SCQ

[2083] L. Torelli and R. Vermiglio. On the stability of continuous quadrature rules for differential equations with several constant delays. *IMA Journal of Numerical Analysis*, 13(2):291–302, 1993. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Toro:1997:URP

[2084] E. F. Toro and S. J. Billett. A unified Riemann-problem-based extension of the Warming-Beam and Lax–Wendroff schemes. *IMA Journal of Numerical Analysis*, 17(1):61–102, January 1997. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://www3.oup.co.uk/imanum/hdb/Volume_17/Issue_01/170061.sgm.abs.html`.

Toro:2000:CTS

[2085] E. F. Toro and S. J. Billett. Centred TVD schemes for hyperbolic conservation laws. *IMA Journal of Numerical Analysis*, 20(1):47–79, January 2000. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://www3.oup.co.uk/imanum/hdb/Volume_20/Issue_01/200047.sgm.abs.html`; `http://www3.oup.co.uk/imanum/hdb/Volume_20/Issue_01/pdf/200047.pdf`.

Torrilhon:2006:SCK

[2086] Manuel Torrilhon and Kun Xu. Stability and consistency of kinetic upwinding for advection–diffusion equations. *IMA Journal of Numerical Analysis*, 26(4):686–722, October 2006. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/cgi/content/abstract/26/4/686`; `http://imajna.oxfordjournals.org/cgi/reprint/26/4/686`.

Toselli:2006:DPF

[2087] Andrea Toselli. Dual-primal FETI algorithms for edge finite-element approximations in 3D. *IMA Journal of Numerical Analysis*, 26(1):96–130, January 2006. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imanum.oxfordjournals.org/cgi/content/abstract/26/1/96`; `http://imanum.oxfordjournals.org/cgi/reprint/26/1/96`.

Toselli:2004:DDP

[2088] Journal Andrea Toselli and Xavier Vasseur. Domain decomposition preconditioners of Neumann–Neumann type for *hp* approximations on boundary layer meshes in three dimensions. *IMA Journal of Numerical Analysis*, 24(1):123–156, January 2004. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://www3.oup.co.uk/imanum/hdb/Volume_24/Issue_01/240123.sgm.abs.html`; `http://www3.oup.co.uk/imanum/hdb/Volume_24/Issue_01/pdf/240123.pdf`.

Tourigny:1990:PAN

[2089] Yves Tourigny. Product approximation for nonlinear Klein–Gordon equations. *IMA Journal of Numerical Analysis*, 10(3):449–462, 1990. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Tourigny:1991:OET

[2090] Yves Tourigny. Optimal H^1 estimates for two time-discrete Galerkin approximations of a nonlinear Schrödinger equation. *IMA Journal of Numerical Analysis*, 11(4):509–523, 1991. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Townsend:2016:FCG

[2091] Alex Townsend, Thomas Trogdon, and Sheehan Olver. Fast computation of Gauss quadrature nodes and weights on the whole real line. *IMA Journal of Numerical Analysis*, 36(1):337–358, January 2016. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/36/1/337`.

Trefethen:2010:HTQ

[2092] Lloyd N. Trefethen. Householder triangularization of a quasimatrix. *IMA Journal of Numerical Analysis*, 30 (4):887–897, October 2010. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/30/4/887.full.pdf+html`.

Trogdon:2016:RHA

[2093] Thomas Trogdon and Sheehan Olver. A Riemann–Hilbert approach to Jacobi operators and Gaussian quadrature. *IMA Journal of Numerical Analysis*, 36(1):174–196, January 2016. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/36/1/174`.

Tsao:1993:NCD

[2094] Nai Kuan Tsao and Tse-Chien Sun. On the numerical computation of the derivatives of a B-spline series. *IMA Journal of Numerical Analysis*, 13(3): 343–364, 1993. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Tu:2023:BAO

[2095] Xuemin Tu and Jinjin Zhang. BDDC algorithms for Oseen problems with HDG discretizations. *IMA Journal of Numerical Analysis*, 43(6):3478–3521, November 2023. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/43/6/3478/6834124`.

Tuomela:2006:NSI

[2096] Jukka Tuomela, Teijo Arponen, and Villesamuli Normi. On the numerical solution of involutive ordinary differential systems: enhanced linear algebra. *IMA Journal of Numerical Analysis*, 26(4):811–846, October 2006. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/cgi/content/abstract/26/4/811; http://imajna.oxfordjournals.org/cgi/reprint/26/4/811`.

Tupper:2005:TPM

[2097] P. F. Tupper. A test problem for molecular dynamics integrators. *IMA Journal of Numerical Analysis*, 25(2):286–309, April 2005. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imanum.oupjournals.org/cgi/content/abstract/25/2/286; http://imanum.oupjournals.org/cgi/reprint/25/2/286`.

Turner:1982:DLS

[2098] Peter R. Turner. The distribution of leading significant digits. *IMA Journal of Numerical Analysis*, 2(4): 407–412, October 1982. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Turner:1984:FRD

[2099] Peter R. Turner. Further revelations on l.s.d. *IMA Journal of Numerical Analysis*, 4(2):225–231, April 1984. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Uschmajew:2020:CPQ

[2100] André Uschmajew and Bart Vandereycken. On critical points of quadratic low-rank matrix optimization problems. *IMA Journal of Numerical Analysis*, 40(4):2626–2651, October 2020. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/40/4/2626/5743529`.

Valvi:1987:AID

[2101] F. N. Valvi and V. S. Geroyannis. Analytic inverses and determinants for a class of matrices. *IMA Journal of Numerical Analysis*, 7(1):123–128, 1987. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

VanBeeumen:2015:LLH

[2102] Roel Van Beeumen, Wim Michiels, and Karl Meerbergen. Linearization of Lagrange and Hermite interpolating matrix polynomials. *IMA Journal of Numerical Analysis*, 35(2):909–930, April 2015. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/35/2/909`.

Van-Brunt:2022:ASP

[2103] Alexander Van-Brunt, Patrick E. Farrell, and Charles W. Monroe. Augmented saddle-point formulation of the steady-state Stefan–Maxwell diffusion problem. *IMA Journal of Numerical Analysis*, 42(4):3272–3305, October 2022. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/42/4/3272/6381969`.

VanDenHeuvel:2001:URC

[2104] E. G. Van Den Heuvel. Using resolvent conditions to obtain new stability results for θ-methods for delay differential equations. *IMA Journal of Numerical Analysis*, 21(1):421–438, January 2001. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://www3.oup.co.uk/imanum/hdb/Volume_21/Issue_01/210421abs.pdf; http://www3.oup.co.uk/imanum/hdb/Volume_21/Issue_01/pdf/210421.pdf`.

vanderHouwen:1982:SCM

[2105] P. J. van der Houwen and B. P. Sommeijer. A special class of multistep Runge–Kutta methods with extended real stability interval. *IMA Journal of Numerical Analysis*, 2(2): 183–209, April 1982. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

vanderHouwen:1983:PCM

[2106] P. J. van der Houwen and B. P. Sommeijer. Predictor-corrector methods with improved absolute stability regions. *IMA Journal of Numerical Analysis*, 3(4):417–437, 1983. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

vanderHouwen:1984:LMM

[2107] P. J. van der Houwen and B. P. Sommeijer. Linear multistep methods with reduced truncation error for periodic initial value problems. *IMA Journal of Numerical Analysis*, 4(4): 479–489, October 1984. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

vanderHouwen:1987:PCM

[2108] P. J. van der Houwen and B. P. Sommeijer. Predictor-corrector methods for periodic second-order initial-value problems. *IMA Journal of Numerical Analysis*, 7(4):407–422, 1987. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

vanderHouwen:1990:ISP

[2109] P. J. van der Houwen and B. P. Sommeijer. Improving the stability of predictor-corrector methods by residue smoothing. *IMA Journal of Numerical Analysis*, 10(3):361–378, 1990. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

vanderHouwen:1986:SPC

[2110] P. J. van der Houwen, B. P. Sommeijer, and Christopher T. H. Baker. On the stability of predictor-corrector methods for parabolic equations with delay. *IMA Journal of Numerical Analysis*, 6(1):1–23, 1986. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

vanderHouwen:1981:CSA

[2111] P. J. van der Houwen, P. H. M. Wolkenfelt, and C. T. H. Baker. Convergence and stability analysis for modified Runge–Kutta methods in the numerical treatment of second-kind Volterra integral equations. *IMA Journal of Numerical Analysis*, 1(3):303–328, 1981. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

VanDeun:2006:QFB

[2112] J. Van Deun and A. Bultheel. A quadrature formula based on Chebyshev rational functions. *IMA Journal of Numerical Analysis*, 26(4):641–656, October 2006. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/cgi/content/abstract/26/4/641; http://imajna.oxfordjournals.org/cgi/reprint/26/4/641`.

vanDiejen:2021:CRH

[2113] J. F. van Diejen and E. Emsiz. Cubature rules from Hall–Littlewood polynomials. *IMA Journal of Numerical*

Analysis, 41(2):998–1030, April 2021. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/41/2/998/5838512`.

vanDorsselaer:1994:ECS

[2114] J. L. M. van Dorsselaer and M. N. Spijker. The error committed by stopping the Newton iteration in the numerical solution of stiff initial value problems. *IMA Journal of Numerical Analysis*, 14(2):183–209, 1994. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

vanDorsselaer:1999:IMP

[2115] Jos L. M. van Dorsselaer and Christian Lubich. Inertial manifolds of parabolic differential equations under higher-order discretizations. *IMA Journal of Numerical Analysis*, 19(3): 455–471, July 1999. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://www3.oup.co.uk/imanum/hdb/Volume_19/Issue_03/190455.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_19/Issue_03/pdf/190455.pdf`.

Vandereycken:2013:RGC

[2116] Bart Vandereycken, P.-A. Absil, and Stefan Vandewalle. A Riemannian geometry with complete geodesics for the set of positive semidefinite matrices of fixed rank. *IMA Journal of Numerical Analysis*, 33(2):481–514, April 2013. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/33/2/481.full.pdf+html`.

Vannieuwenhoven:2015:RAT

[2117] Nick Vannieuwenhoven, Raf Vandebril, and Karl Meerbergen. A randomized algorithm for testing nonsingularity of structured matrices with an application to asserting nondefectivity of Segrè varieties. *IMA Journal of Numerical Analysis*, 35(1):289–324, January 2015. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/35/1/289`.

Varah:1993:EPV

[2118] J. M. Varah. Errors and perturbations in Vandermonde systems. *IMA Journal of Numerical Analysis*, 13(1):1–12, 1993. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Vasconcelos:1998:PIM

[2119] Paulo B. Vasconcelos and Filomena D. d'Almeida. Preconditioned iterative methods for coupled discretizations of fluid flow problems. *IMA Journal of Numerical Analysis*, 18(3): 385–397, July 1998. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://www3.oup.co.uk/imanum/hdb/Volume_18/Issue_03/180385.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_18/Issue_03/pdf/180385.pdf`.

Veeser:2012:PCF

[2120] Andreas Veeser and Rüdiger Verfürth. Poincaré constants for finite element stars. *IMA Journal of Numerical Analysis*, 32(1):30–47, January 2012. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642

(electronic). URL http://imajna.oxfordjournals.org/content/32/1/30.full.pdf+html.

Vejchodsky:2006:GLC

[2121] Tomás Vejchodsky. Guaranteed and locally computable a posteriori error estimate. *IMA Journal of Numerical Analysis*, 26(3):525–540, July 2006. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://comjnl.oxfordjournals.org/cgi/content/abstract/26/3/525; http://comjnl.oxfordjournals.org/cgi/reprint/26/3/525.

Verdi:1985:NAH

[2122] C. Verdi and A. Visintin. Numerical approximation of hysteresis problems. *IMA Journal of Numerical Analysis*, 5(4):447–463, 1985. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Verfurth:2022:NHN

[2123] Barbara Verfürth. Numerical homogenization for nonlinear strongly monotone problems. *IMA Journal of Numerical Analysis*, 42(2):1313–1338, April 2022. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/42/2/1313/6149432.

Verfurth:1984:CCG

[2124] R. Verfürth. A combined conjugate gradient-multigrid algorithm for the numerical solution of the Stokes problem. *IMA Journal of Numerical Analysis*, 4(4):441–455, October 1984. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Vigo-Aguiar:2007:FSR

[2125] Jesús Vigo-Aguiar and Higinio Ramos. A family of A-stable Runge–Kutta collocation methods of higher order for initial-value problems. *IMA Journal of Numerical Analysis*, 27(4):798–817, October 2007. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/cgi/content/abstract/27/4/798; http://imajna.oxfordjournals.org/cgi/reprint/27/4/798.

Viscor:2013:RFD

[2126] Martin Viscor and Martin Stynes. A robust finite difference method for a singularly perturbed degenerate parabolic problem II. *IMA Journal of Numerical Analysis*, 33(2):460–480, April 2013. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/33/2/460.full.pdf+html.

Viswanath:2001:GEN

[2127] Divakar Viswanath. Global errors of numerical ODE solvers and Lyapunov's theory of stability. *IMA Journal of Numerical Analysis*, 21(1):387–406, January 2001. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_21/Issue_01/210387abs.pdf; http://www3.oup.co.uk/imanum/hdb/Volume_21/Issue_01/pdf/210387.pdf.

Voller:1985:IFD

[2128] V. R. Voller. Implicit finite-difference solutions of the enthalpy formulation of

Stefan problems. *IMA Journal of Numerical Analysis*, 5(2):201–214, 1985. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

vonWahl:2022:UEF

[2129] Henry von Wahl, Thomas Richter, and Christoph Lehrenfeld. An unfitted Eulerian finite element method for the time-dependent Stokes problem on moving domains. *IMA Journal of Numerical Analysis*, 42(3): 2505–2544, July 2022. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/42/3/2505/6307433.

Vulanovic:2001:PMS

[2130] Relja Vulanović. A priori meshes for singularly perturbed quasilinear two-point boundary value problems. *IMA Journal of Numerical Analysis*, 21(1): 349–366, January 2001. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_21/Issue_01/210349.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_21/Issue_01/pdf/210349.pdf.

Walker:2022:KPE

[2131] Shawn W. Walker. The Kirchhoff plate equation on surfaces: the surface Hellan–Herrmann–Johnson method. *IMA Journal of Numerical Analysis*, 42 (4):3094–3134, October 2022. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/42/4/3094/6354854.

Walloth:2020:RTP

[2132] Mirjam Walloth. Residual-type a posteriori error estimator for a quasi-static Signorini contact problem. *IMA Journal of Numerical Analysis*, 40 (3):1937–1971, July 2020. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/40/3/1937/5485005.

Walz:1989:EBS

[2133] Guido Walz. Error bounds and stopping rules for extrapolation methods. *IMA Journal of Numerical Analysis*, 9(2):185–198, 1989. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Wang:2019:FAE

[2134] Bin Wang and Xinyuan Wu. The formulation and analysis of energy-preserving schemes for solving high-dimensional nonlinear Klein–Gordon equations. *IMA Journal of Numerical Analysis*, 39(4):2016–2044, October 2019. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/39/4/2016/5055152.

Wang:2011:DGM

[2135] Fei Wang, Weimin Han, and Xiaoliang Cheng. Discontinuous Galerkin methods for solving the Signorini problem. *IMA Journal of Numerical Analysis*, 31(4):1754–1772, October 2011. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/31/4/1754.full.pdf+html.

Wang:2020:VEM

[2136] Fei Wang and Huayi Wei. Virtual element methods for the obstacle problem. *IMA Journal of Numerical Analysis*, 40 (1):708–728, January 2020. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/40/1/708/5068727.

Wang:2021:CNV

[2137] Fei Wang and Jikun Zhao. Conforming and nonconforming virtual element methods for a Kirchhoff plate contact problem. *IMA Journal of Numerical Analysis*, 41(2):1496–1521, April 2021. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/41/2/1496/5821104.

Wang:2022:EPE

[2138] Gang Wang, Jian Meng, Ying Wang, and Liquan Mei. *A priori* and *a posteriori error* estimates for a virtual element method for the non-self-adjoint Steklov eigenvalue problem. *IMA Journal of Numerical Analysis*, 42 (4):3675–3710, October 2022. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/42/4/3675/6414410.

Wang:2023:ORC

[2139] Haiyong Wang. Optimal rates of convergence and error localization of Gegenbauer projections. *IMA Journal of Numerical Analysis*, 43(4): 2413–2444, July 2023. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/43/4/2413/6674192.

Wang:2017:FAC

[2140] Haiyong Wang and Daan Huybrechs. Fast and accurate computation of Chebyshev coefficients in the complex plane. *IMA Journal of Numerical Analysis*, 37(3):1150–1174, July 1, 2017. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL https://academic.oup.com/imajna/article/37/3/1150/2670030/Fast-and-accurate-computation-of-Chebyshev.

Wang:2011:AEF

[2141] Haiyong Wang and Shuhuang Xiang. Asymptotic expansion and Filon-type methods for a Volterra integral equation with a highly oscillatory kernel. *IMA Journal of Numerical Analysis*, 31(2):469–490, April 2011. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/31/2/469.full.pdf+html.

Wang:1995:ELL

[2142] Hong Wang, Richard E. Ewing, and Thomas F. Russell. Eulerian–Lagrangian localized adjoint methods for convection-diffusion equations and their convergence analysis. *IMA Journal of Numerical Analysis*, 15(3):405–459, 1995. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Wang:2024:SCA

[2143] Jihong Wang, Jerry Zhijian Yang, and Jiwei Zhang. Stability and convergence analysis of high-order numerical schemes with DtN-type absorbing boundary conditions for nonlocal wave equations. *IMA Journal of Numerical Analysis*, 44(1):604–632, January 2024. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/44/1/604/7099186.

Wang:2011:KTN

[2144] Jin-Hua Wang and Chong Li. Kantorovich's theorems for Newton's method for mappings and optimization problems on Lie groups. *IMA Journal of Numerical Analysis*, 31(1):322–347, January 2011. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/31/1/322.full.pdf+html.

Wang:2011:UEF

[2145] Kaixin Wang and Hong Wang. Uniform estimates for a family of Eulerian–Lagrangian methods for time-dependent convection–diffusion equations with degenerate diffusion. *IMA Journal of Numerical Analysis*, 31(3):1006–1037, July 2011. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/31/3/1006.full.pdf+html.

Wang:2025:LIF

[2146] Mengchao Wang and Xiaojie Wang. A linearly implicit finite element full-discretization scheme for SPDEs with nonglobally Lipschitz coefficients. *IMA Journal of Numerical Analysis*, 45(1):516–579, January 2025. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/45/1/516/7666613.

Wang:2023:CPB

[2147] Nana Wang and Jicheng Li. A class of preconditioners based on symmetric-triangular decomposition and matrix splitting for generalized saddle point problems. *IMA Journal of Numerical Analysis*, 43(5):2998–3025, September 2023. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/43/5/2998/6768220.

Wang:1998:CEB

[2148] S. Wang, I. H. Sloan, and D. W. Kelly. Computable error bounds for pointwise derivatives of a Neumann problem. *IMA Journal of Numerical Analysis*, 18(2):251–271, April 1998. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_18/Issue_02/180251.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_18/Issue_02/pdf/180251.pdf.

Wang:2004:NFF

[2149] Song Wang. A novel fitted finite volume method for the Black–Scholes equation governing option pricing. *IMA Journal of Numerical Analysis*, 24(4):699–720, October 2004. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imanum.oupjournals.org/cgi/content/abstract/24/4/699; http://imanum.oupjournals.org/cgi/reprint/24/4/699.

Wang:2024:CFC

[2150] Weiqi Wang and Simone Brugiapaglia. Compressive Fourier collocation methods for high-dimensional diffusion equations with periodic boundary conditions. *IMA Journal of Numerical Analysis*, 44(6):3780–3814, November 2024. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/44/6/3780/7517280.

Wang:2017:SCR

[2151] Xiaojie Wang. Strong convergence rates of the linear implicit Euler method for the finite element discretization of SPDEs with additive noise. *IMA Journal of Numerical Analysis*, 37(2):965–984, April 2017. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL https://academic.oup.com/imajna/article/37/2/965/2669957/Strong-convergence-rates-of-the-linear-implicit.

Wang:2024:WEA

[2152] Xiaojie Wang, Yuying Zhao, and Zhongqiang Zhang. Weak error analysis for strong approximation schemes of SDEs with super-linear coefficients. *IMA Journal of Numerical Analysis*, 44(5):3153–3185, September 2024. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/44/5/3153/7379741.

Wang:2007:BBP

[2153] Xiaoqun Wang and Ian H. Sloan. Brownian bridge and principal component analysis: towards removing the curse of dimensionality. *IMA Journal of Numerical Analysis*, 27(4):631–654, October 2007. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/cgi/content/abstract/27/4/631; http://imajna.oxfordjournals.org/cgi/reprint/27/4/631.

Wang:2000:CNM

[2154] Xinghua Wang. Convergence of Newton's method and uniqueness of the solution of equations in Banach space. *IMA Journal of Numerical Analysis*, 20(1):123–134, January 2000. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_20/Issue_01/200123.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_20/Issue_01/pdf/200123.pdf.

Wang:1996:CPA

[2155] Xinmin Wang. Convergence of parallel AOR and GAOR methods applied to H-matrices. *IMA Journal of Numerical Analysis*, 16(4):485–499, October 1996. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_16/Issue_04/160485.sgm.abs.html.

Wang:2021:PAH

[2156] Yangshuai Wang, Lei Zhang, and Hao Wang. A priori analysis of a higher-order nonlinear elasticity model for an atomistic chain with periodic boundary condition. *IMA Journal of Numerical Analysis*, 41(2):1465–1495, April 2021. CODEN IJNADH. ISSN 0272-4979

(print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/41/2/1465/5837821.

Wang:2018:EIB

[2157] Zhengyu Wang and Xiaojun Chen. An exponential integrator-based discontinuous Galerkin method for linear complementarity systems. *IMA Journal of Numerical Analysis*, 38(4): 2145–2165, October 16, 2018. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/38/4/2145/4554435.

Wang:2011:CEB

[2158] Zhengyu Wang and Ya xiang Yuan. Componentwise error bounds for linear complementarity problems. *IMA Journal of Numerical Analysis*, 31(1):348–357, January 2011. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/31/1/348.full.pdf+html.

Wang:2015:GLA

[2159] Zhong-Qing Wang and Xin-Min Xiang. Generalized Laguerre approximations and spectral method for the Camassa–Holm equation. *IMA Journal of Numerical Analysis*, 35(3):1456–1482, July 2015. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/35/3/1456.

Wathen:1987:REB

[2160] A. J. Wathen. Realistic eigenvalue bounds for the Galerkin mass matrix. *IMA Journal of Numerical Analysis*, 7(4):449–457, 1987. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Wathen:1985:SMF

[2161] A. J. Wathen and M. J. Baines. On the structure of the moving finite-element equations. *IMA Journal of Numerical Analysis*, 5(2):161–182, 1985. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Watson:1981:ALA

[2162] G. A. Watson. An algorithm for linear L_1 approximation of continuous functions. *IMA Journal of Numerical Analysis*, 1(2):157–167, 1981. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Watson:1982:NML

[2163] G. A. Watson. Numerical methods for linear orthogonal L_p approximation. *IMA Journal of Numerical Analysis*, 2 (3):275–287, July 1982. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Watson:1984:DAR

[2164] G. A. Watson. Discrete l_1 approximation by rational functions. *IMA Journal of Numerical Analysis*, 4(3): 275–288, July 1984. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Watson:1988:MCS

[2165] G. A. Watson. A method for the Chebyshev solution of an overdetermined system of complex linear equations. *IMA Journal of Numerical Analysis*, 8(4):461–471, October 1988.

CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Watson:1988:SPS

[2166] G. A. Watson. The smallest perturbation of a submatrix that lowers the rank of the matrix. *IMA Journal of Numerical Analysis*, 8(3):295–303, 1988. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Watson:1990:CAD

[2167] G. A. Watson. Chebyshev approximation to data by positive sums of exponentials. *IMA Journal of Numerical Analysis*, 10(4):569–582, 1990. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Watson:1991:AOS

[2168] G. A. Watson. An algorithm for optimal l_2 scaling of matrices. *IMA Journal of Numerical Analysis*, 11(4):481–492, 1991. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Watson:2002:GNM

[2169] G. A. Watson. On the Gauss–Newton method for l_1 orthogonal distance regression. *IMA Journal of Numerical Analysis*, 22(3):345–357, July 2002. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://www3.oup.co.uk/imanum/hdb/Volume_22/Issue_03/220345.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_22/Issue_03/pdf/220345.pdf`.

Weber:2017:CRF

[2170] Franziska Weber. Convergence rates of finite difference schemes for the linear advection and wave equation with rough coefficient. *IMA Journal of Numerical Analysis*, 37(3):1586–1634, July 1, 2017. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `https://academic.oup.com/imajna/article/37/3/1586/2670057/Convergence-rates-of-finite-difference-schemes-for`.

Weber:2022:PFN

[2171] Melanie Weber and Suvrit Sra. Projection-free nonconvex stochastic optimization on Riemannian manifolds. *IMA Journal of Numerical Analysis*, 42 (4):3241–3271, October 2022. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/42/4/3241/6374894`.

Weideman:2010:ICI

[2172] J. A. C. Weideman. Improved contour integral methods for parabolic PDEs. *IMA Journal of Numerical Analysis*, 30(1):334–350, January 2010. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/cgi/content/abstract/30/1/334; http://imajna.oxfordjournals.org/cgi/reprint/30/1/334`.

Weiner:1993:PSR

[2173] R. Weiner, M. Arnold, P. Rentrop, and K. Strehmel. Partitioning strategies in Runge–Kutta type methods. *IMA Journal of Numerical Analysis*, 13(2):303–319, 1993. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Wendland:2001:LPR

[2174] Holger Wendland. Local polynomial reproduction and moving least squares approximation. *IMA Journal of Numerical Analysis*, 21(1):285–300, January 2001. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://www3.oup.co.uk/imanum/hdb/Volume_21/Issue_01/210285.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_21/Issue_01/pdf/210285.pdf`.

Wenzel:2025:SCR

[2175] Tizian Wenzel, Gabriele Santin, and Bernard Haasdonk. Stability of convergence rates: kernel interpolation on non-Lipschitz domains. *IMA Journal of Numerical Analysis*, 45(2):777–798, March 2025. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/45/2/777/7665456`.

Wesseling:1996:NSC

[2176] P. Wesseling. von Neumann stability conditions for the convection-diffusion equation. *IMA Journal of Numerical Analysis*, 16(4):583–598, October 1996. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://www3.oup.co.uk/imanum/hdb/Volume_16/Issue_04/160583.sgm.abs.html`.

Wihler:2004:LFD

[2177] Journal Thomas P. Wihler. Locking-free DGFEM for elasticity problems in polygons. *IMA Journal of Numerical Analysis*, 24(1):45–75, January 2004. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://www3.oup.co.uk/imanum/hdb/Volume_24/Issue_01/240045.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_24/Issue_01/pdf/240045.pdf`.

Williams:1993:BCA

[2178] Jack Williams and Z. Kalogiratou. Best Chebyshev approximation from families of ordinary differential equations. *IMA Journal of Numerical Analysis*, 13(3):383–395, 1993. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Wnuk:2023:RSG

[2179] M. Wnuk and M. Gnewuch. Randomized sparse grid algorithms for multivariate integration on Haar wavelet spaces. *IMA Journal of Numerical Analysis*, 43(1):73–98, January 2023. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/43/1/73/6449110`.

Wolkenfelt:1982:CRQ

[2180] P. H. M. Wolkenfelt. The construction of reducible quadrature rules for Volterra integral and integro-differential equations. *IMA Journal of Numerical Analysis*, 2(2):131–152, April 1982. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Wright:1984:APC

[2181] K. Wright. Asymptotic properties of collocation matrix norms. 1. Global polynomial approximation. *IMA Journal of Numerical Analysis*, 4(2):185–202, April 1984. CODEN IJNADH.

ISSN 0272-4979 (print), 1464-3642 (electronic).

Wright:1991:MSC

[2182] K. Wright, A. H.-A. Ahmed, and A. H. Seleman. Mesh selection in collocation for boundary value problems. *IMA Journal of Numerical Analysis*, 11(1):7–20, 1991. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Wright:1986:CPH

[2183] Stephen J. Wright. Convergence of projected Hessian approximations in quasi-Newton methods for the nonlinear programming problem. *IMA Journal of Numerical Analysis*, 6(4):463–474, 1986. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Wright:1990:CIA

[2184] Stephen J. Wright. Convergence of an inexact algorithm for composite nonsmooth optimization. *IMA Journal of Numerical Analysis*, 10(3):299–321, 1990. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Wright:2002:PRM

[2185] Thomas G. Wright and Lloyd N. Trefethen. Pseudospectra of rectangular matrices. *IMA Journal of Numerical Analysis*, 22(4):501–519, October 2002. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://www3.oup.co.uk/imanum/hdb/Volume_22/Issue_04/220501.sgm.abs.html`; `http://www3.oup.co.uk/imanum/hdb/Volume_22/Issue_04/pdf/220501.pdf`.

Wu:2016:FMR

[2186] Bin Wu and Qinghui Zhang. Fast multiscale regularization methods for high-order numerical differentiation. *IMA Journal of Numerical Analysis*, 36(3):1432–1451, July 2016. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/36/3/1432`.

Wu:2018:NAA

[2187] Gang Wu and Lu Zhang. New algorithms for approximating φ-functions and their condition numbers for large sparse matrices. *IMA Journal of Numerical Analysis*, 38(3):1185–1208, July 17, 2018. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/38/3/1185/4082173`.

Wu:2014:PAE

[2188] Haijun Wu. Pre-asymptotic error analysis of CIP–FEM and FEM for the Helmholtz equation with high wave number. Part I: linear version. *IMA Journal of Numerical Analysis*, 34(3):1266–1288, July 2014. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/34/3/1266`.

Wu:2009:EEA

[2189] Haijun Wu and Zhimin Zhang. Enhancing eigenvalue approximation by gradient recovery on adaptive meshes. *IMA Journal of Numerical Analysis*, 29(4):1008–1022, October 2009. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/cgi/content/abstract/29/4/1008`; `http://imajna.oxfordjournals.org/cgi/reprint/29/4/1008`.

Wu:2005:SRS

[2190] Jiming Wu and Yong Lü. A superconvergence result for the second-order Newton–Cotes formula for certain finite-part integrals. *IMA Journal of Numerical Analysis*, 25(2):253–263, April 2005. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imanum.oupjournals.org/cgi/content/abstract/25/2/253`; `http://imanum.oupjournals.org/cgi/reprint/25/2/253`.

Wu:2015:CAS

[2191] Shu-Lin Wu. Convergence analysis of some second-order parareal algorithms. *IMA Journal of Numerical Analysis*, 35(3):1315–1341, July 2015. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/35/3/1315`.

Wu:2012:CAO

[2192] Shu-Lin Wu, Cheng-Ming Huang, and Ting-Zhu Huang. Convergence analysis of the overlapping Schwarz waveform relaxation algorithm for reaction-diffusion equations with time delay. *IMA Journal of Numerical Analysis*, 32(2):632–671, April 2012. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/32/2/632.full.pdf+html`.

Wu:1994:SSH

[2193] W. Wu, A. Spence, and K. A. Cliffe. Steady-state/Hopf mode interaction at a symmetry-breaking Takens–Bogdanov point. *IMA Journal of Numerical Analysis*, 14(1):137–160, 1994. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Wu:2022:OCS

[2194] Yifei Wu and Xiaofei Zhao. Optimal convergence of a second-order low-regularity integrator for the KdV equation. *IMA Journal of Numerical Analysis*, 42(4):3499–3528, October 2022. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/42/4/3499/6321763`.

Wu:2012:CAC

[2195] Yongke Wu, Long Chen, Xiaoping Xie, and Jinchao Xu. Convergence analysis of V-cycle multigrid methods for anisotropic elliptic equations. *IMA Journal of Numerical Analysis*, 32(4):1329–1347, October 2012. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/32/4/1329.full.pdf+html`.

Wu:1993:LEE

[2196] Zong Min Wu and Robert Schaback. Local error estimates for radial basis function interpolation of scattered data. *IMA Journal of Numerical Analysis*, 13(1):13–27, 1993. CODEN IJ-

NADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Wyns:2017:CAM

[2197] Maarten Wyns. Convergence analysis of the Modified Craig–Sneyd scheme for two-dimensional convection-diffusion equations with nonsmooth initial data. *IMA Journal of Numerical Analysis*, 37(2):798–831, April 2017. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `https://academic.oup.com/imajna/article/37/2/798/2669993/Convergence-analysis-of-the-Modified-Craig-Sneyd`.

Xi:2020:MLM

[2198] Yingxia Xi, Xia Ji, and Shuo Zhang. A multi-level mixed element scheme of the two-dimensional Helmholtz transmission eigenvalue problem. *IMA Journal of Numerical Analysis*, 40(1):686–707, January 2020. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/40/1/686/5144482`.

Xia:2015:HDF

[2199] Bingxing Xia and Viet Ha Hoang. High-dimensional finite element method for multiscale linear elasticity. *IMA Journal of Numerical Analysis*, 35 (3):1277–1314, July 2015. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/35/3/1277`.

Xiang:2011:CCF

[2200] Shuhuang Xiang, Yeol Je Cho, Haiyong Wang, and Hermann Brunner. Clenshaw–Curtis–Filon-type methods for highly oscillatory Bessel transforms and applications. *IMA Journal of Numerical Analysis*, 31(4):1281–1314, October 2011. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/31/4/1281.full.pdf+html`. See erratum [2201].

Xiang:2013:ECC

[2201] Shuhuang Xiang, Yeol Je Cho, Haiyong Wang, and Hermann Brunner. Erratum to "Clenshaw–Curtis–Filon-type methods for highly oscillatory Bessel transforms and applications" (IMA Journal of Numerical Analysis (2011) **31**:1281–1314). *IMA Journal of Numerical Analysis*, 33(4):1480–1483, October 2013. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/33/4/1480.full.pdf+html`. See [2200].

Xie:2010:SEP

[2202] Gang Xie and Thomas P.-Y. Yu. Smoothness equivalence properties of interpolatory Lie group subdivision schemes. *IMA Journal of Numerical Analysis*, 30(3):731–750, July 2010. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/cgi/content/abstract/30/3/731; http://imajna.oxfordjournals.org/cgi/reprint/30/3/731`.

Xie:2012:AOE

[2203] Gang Xie and Thomas P.-Y. Yu. Approximation order equivalence properties of manifold-valued data subdivision schemes. *IMA Journal of Numerical Analysis*, 32(2):687–700, April 2012. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/32/2/687.full.pdf+html.

Xie:2014:TMM

[2204] Hehu Xie. A type of multilevel method for the Steklov eigenvalue problem. *IMA Journal of Numerical Analysis*, 34(2):592–608, April 2014. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/34/2/592.full.pdf+html.

Xie:2024:CCO

[2205] Yuchen Xie, Raghu Bollapragada, Richard Byrd, and Jorge Nocedal. Constrained and composite optimization via adaptive sampling methods. *IMA Journal of Numerical Analysis*, 44(2):680–709, March 2024. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/44/2/680/7158521.

Xie:2005:ISE

[2206] Ziqing Xie, Chuanmiao Chen, and Yun Xu. An improved search-extension method for computing multiple solutions of semilinear PDEs. *IMA Journal of Numerical Analysis*, 25(3):549–576, July 2005. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imanum.oxfordjournals.org/cgi/content/abstract/25/3/549; http://imanum.oxfordjournals.org/cgi/reprint/25/3/549.

Xu:2011:UBS

[2207] Da Xu. Uniform l_1 behaviour in a second-order difference-type method for a linear Volterra equation with completely monotonic kernel I: stability. *IMA Journal of Numerical Analysis*, 31(3):1154–1180, July 2011. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/31/3/1154.full.pdf+html.

Xu:2022:ACN

[2208] Da Xu. Application of the Crank–Nicolson time integrator to viscoelastic wave equations with boundary feedback damping. *IMA Journal of Numerical Analysis*, 42(1):487–514, January 2022. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/42/1/487/5923272.

Xu:2004:TLA

[2209] Journal Xuejun Xu, S. H. Lui, and T. Rahman. A two-level additive Schwarz method for the Morley nonconforming element approximation of a nonlinear biharmonic equation. *IMA Journal of Numerical Analysis*, 24(1):97–122, January 2004. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_24/Issue_01/240097.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_24/Issue_01/pdf/240097.pdf.

Xu:2016:ECR

[2210] Kuan Xu and Nicholas Hale. Explicit construction of rectangular differentiation matrices. *IMA Journal of Numerical Analysis*, 36(2):618–632, April 2016. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/36/2/618.

Xu:2011:CBA

[2211] X. Xu, W. Huang, R. D. Russell, and J. F. Williams. Convergence of de Boor's algorithm for the generation of equidistributing meshes. *IMA Journal of Numerical Analysis*, 31(2):580–596, April 2011. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/31/2/580.full.pdf+html.

Yalamov:1999:SPA

[2212] Plamen Y. Yalamov and Marcin Paprzycki. Stability and performance analysis of a block elimination solver for bordered linear systems. *IMA Journal of Numerical Analysis*, 19(3):335–348, July 1999. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_19/Issue_03/190335.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_19/Issue_03/pdf/190335.pdf.

Yan:1990:CCV

[2213] Yi Yan. Cosine change of variable for Symm's integral equation on open arcs. *IMA Journal of Numerical Analysis*, 10(4):521–535, 1990. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Yan:2003:SPA

[2214] Yubin Yan. Smoothing properties and approximation of time derivatives for parabolic equations: constant time steps. *IMA Journal of Numerical Analysis*, 23(3):465–487, July 2003. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_23/Issue_03/drg002.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_23/Issue_03/pdf/drg002.pdf.

Yang:1996:PIN

[2215] Daoqi Yang. A parallel iterative nonoverlapping domain decomposition procedure for elliptic problems. *IMA Journal of Numerical Analysis*, 16(1):75–91, January 1996. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_16/Issue_01/160075.sgm.abs.html.

Yang:1999:IPM

[2216] Daoqi Yang. An iterative perturbation method for saddle point problems. *IMA Journal of Numerical Analysis*, 19(2):215–231, April 1999. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_19/Issue_02/190215.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_19/Issue_02/pdf/190215.pdf.

Yang:2011:QFV

[2217] Min Yang and Jiangguo Liu. A quadratic finite volume element method for parabolic problems on quadrilateral meshes. *IMA Journal of Numerical Analysis*, 31(3):1038–1061, July 2011. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/31/3/1038.full.pdf+html`.

Yang:2013:QFV

[2218] Min Yang, Jiangguo Liu, and Yanping Lin. Quadratic finite-volume methods for elliptic and parabolic problems on quadrilateral meshes: optimal-order errors based on Barlow points. *IMA Journal of Numerical Analysis*, 33(4):1342–1364, October 2013. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/33/4/1342.full.pdf+html`.

Yang:2016:UAH

[2219] Min Yang, Jiangguo Liu, and Qingsong Zou. Unified analysis of higher-order finite volume methods for parabolic problems on quadrilateral meshes. *IMA Journal of Numerical Analysis*, 36(2):872–896, April 2016. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://imajna.oxfordjournals.org/content/36/2/872`.

Yao:2023:INC

[2220] Zhewei Yao, Peng Xu, Fred Roosta, Stephen J Wright, and Michael W Mahoney. Inexact Newton-CG algorithms with complexity guarantees. *IMA Journal of Numerical Analysis*, 43(3):1855–1897, May 2023. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/43/3/1855/6670031`.

Ye:2024:EAT

[2221] Xuda Ye and Zhennan Zhou. Error analysis of time-discrete random batch method for interacting particle systems and associated mean-field limits. *IMA Journal of Numerical Analysis*, 44(3):1660–1698, May 2024. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/44/3/1660/7203656`.

Yi:2024:EEH

[2222] Su-Cheol Yi, Kai Fu, and Shusen Xie. Error estimates of high-order compact finite difference schemes for the nonlinear *abcd* systems. *IMA Journal of Numerical Analysis*, 44(5):2959–2996, September 2024. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/44/5/2959/7263245`.

Yi:2020:OEE

[2223] Wenfan Yi and Yongyong Cai. Optimal error estimates of finite difference time domain methods for the Klein–Gordon–Dirac system. *IMA Journal of Numerical Analysis*, 40(2):1266–1293, April 2020. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL `http://academic.oup.com/imajna/article/40/2/1266/5228146`.

Yoshikawa:2017:EES

[2224] Shuji Yoshikawa. An error estimate for structure-preserving finite difference scheme for the Falk model system of shape memory alloys. *IMA Journal of Numerical Analysis*, 37(1):477–504, January 1, 2017. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL https://academic.oup.com/imajna/article/37/1/477/2669932/An-error-estimate-for-structure-preserving-finite.

Ypma:1983:ERE

[2225] T. J. Ypma. The effect of rounding errors on Newtonlike methods. *IMA Journal of Numerical Analysis*, 3(1):109–118, 1983. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Yu:2024:NSA

[2226] Yi Yu, Maksymilian Dryja, and Marcus Sarkis. Nonoverlapping spectral additive Schwarz methods for hybrid discontinuous Galerkin discretizations. *IMA Journal of Numerical Analysis*, 44(1):192–224, January 2024. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/44/1/192/7044786.

Yuan:1984:EOL

[2227] Y. Yuan. An example of only linear convergence of trust region algorithms for nonsmooth optimization. *IMA Journal of Numerical Analysis*, 4(3):327–335, July 1984. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Yuan:1984:LOC

[2228] Y. Yuan. On the least Q-order of convergence of variable metric algorithms. *IMA Journal of Numerical Analysis*, 4(2):233–239, April 1984. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Yuan:1991:MBA

[2229] Ya Xiang Yuan. A modified BFGS algorithm for unconstrained optimization. *IMA Journal of Numerical Analysis*, 11(3):325–332, 1991. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Yun:2019:UCM

[2230] Xiaofan Yun, Chenxiang Qin, Jinbiao Wu, and Hui Zheng. Uniform convergence of a multigrid method for elliptic equations with anisotropic coefficients. *IMA Journal of Numerical Analysis*, 39(2):1058–1084, April 2019. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/39/2/1058/4972989.

Zakerzadeh:2016:HOA

[2231] Hamed Zakerzadeh and Ulrik S. Fjordholm. High-order accurate, fully discrete entropy stable schemes for scalar conservation laws. *IMA Journal of Numerical Analysis*, 36(2):633–654, April 2016. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/36/2/633.

Zanna:2015:EVP

[2232] Antonella Zanna. Explicit volume-preserving splitting methods for divergence-free ODEs by tensor-product basis decompositions. *IMA Journal of Numerical Analysis*, 35

(1):89–106, January 2015. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/35/1/89.

Zhang:2004:SAR

[2233] Chengjian Zhang and Stefan Vandewalle. Stability analysis of Runge–Kutta methods for nonlinear Volterra delay-integro-differential equations. *IMA Journal of Numerical Analysis*, 24 (2):193–214, April 2004. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_24/Issue_02/240193.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_24/Issue_02/pdf/240193.pdf.

Zhang:2012:CAM

[2234] Lei-Hong Zhang and Moody T. Chu. Computing absolute maximum correlation. *IMA Journal of Numerical Analysis*, 32(1):163–184, January 2012. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/32/1/163.full.pdf+html.

Zhang:2006:DMP

[2235] Li Zhang, Weijun Zhou, and Dong-Hui Li. A descent modified Polak–Ribière–Polyak conjugate gradient method and its global convergence. *IMA Journal of Numerical Analysis*, 26(4):629–640, October 2006. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/cgi/content/abstract/26/4/629; http://imajna.oxfordjournals.org/cgi/reprint/26/4/629.

Zhang:2024:LEB

[2236] Lu Zhang. A local energy-based discontinuous Galerkin method for fourth-order semilinear wave equations. *IMA Journal of Numerical Analysis*, 44(5):2793–2820, September 2024. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/44/5/2793/7317722.

Zhang:1996:CVM

[2237] Pingwen Zhang. Convergence of vortex methods in a bounded domain using linear finite elements. *IMA Journal of Numerical Analysis*, 16(4):539–548, October 1996. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_16/Issue_04/160539.sgm.abs.html.

Zhang:2020:MCF

[2238] Shuo Zhang. Minimal consistent finite element space for the biharmonic equation on quadrilateral grids. *IMA Journal of Numerical Analysis*, 40 (2):1390–1406, April 2020. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/40/2/1390/5298866.

Zhang:1987:LCU

[2239] Yin Zhang and R. P. Tewarson. Least-change updates to Cholesky factors subject to the nonlinear quasi-Newton condition. *IMA Journal of Numerical Analysis*, 7(4):509–521, 1987. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Zhang:1988:QNA

[2240] Yin Zhang and R. P. Tewarson. Quasi-Newton algorithms with updates from the preconvex part of Broyden's family. *IMA Journal of Numerical Analysis*, 8 (4):487–509, October 1988. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Zhang:2001:SDR

[2241] Zhimin Zhang, Ningning Yan, and Tong Sun. Superconvergent derivative recovery for the intermediate finite element family of the second type. *IMA Journal of Numerical Analysis*, 21 (3):643–665, July 2001. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_21/Issue_03/210643.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_21/Issue_03/pdf/210643.pdf.

Zhao:2023:LFS

[2242] Lina Zhao, Eric Chung, and Eun-Jae Park. A locking-free staggered DG method for the Biot system of poroelasticity on general polygonal meshes. *IMA Journal of Numerical Analysis*, 43(5):2777–2816, September 2023. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/43/5/2777/6706612.

Zhao:2020:LOS

[2243] Lina Zhao and Eun-Jae Park. A lowest-order staggered DG method for the coupled Stokes–Darcy problem. *IMA Journal of Numerical Analysis*, 40(4): 2871–2897, October 2020. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/40/4/2871/5716162.

Zhao:1993:UTO

[2244] Ning Zhao and Jia Zun Dai. Uniformly third-order accurate TVNE interpolations. *IMA Journal of Numerical Analysis*, 13(2):255–261, 1993. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Zhao:2021:ESP

[2245] Quan Zhao, Wei Jiang, and Weizhu Bao. An energy-stable parametric finite element method for simulating solid-state dewetting. *IMA Journal of Numerical Analysis*, 41 (3):2026–2055, July 2021. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/41/3/2026/5919159.

Zheng:2021:FAT

[2246] Chunxiong Zheng and Xiang Ma. Fast algorithm for the three-dimensional Poisson equation in infinite domains. *IMA Journal of Numerical Analysis*, 41 (4):3024–3045, October 2021. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/41/4/3024/5896489.

Zheng:2015:CAM

[2247] Hui Zheng and Jinbiao Wu. Convergence analysis on multigrid methods for elliptic problems with large jumps in coefficients. *IMA Journal of Numerical Analysis*, 35(4):1888–1912, October 2015. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/35/4/1888.

Zheng:2021:OOE

[2248] Xiangcheng Zheng and Hong Wang. Optimal-order error estimates of finite element approximations to variable-order time-fractional diffusion equations without regularity assumptions of the true solutions. *IMA Journal of Numerical Analysis*, 41(2): 1522–1545, April 2021. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://academic.oup.com/imajna/article/41/2/1522/5825557.

Zhou:2005:CNS

[2249] Jiansong Zhou and Zhiping Li. Computing non-smooth minimizers with the mesh transformation method. *IMA Journal of Numerical Analysis*, 25(3): 458–472, July 2005. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imanum.oxfordjournals.org/cgi/content/abstract/25/3/458; http://imanum.oxfordjournals.org/cgi/reprint/25/3/458.

Zhu:2011:RPE

[2250] Liang Zhu and Dominik Schötzau. A robust a posteriori error estimate for *hp* adaptive DG methods for convection–diffusion equations. *IMA Journal of Numerical Analysis*, 31(3):971–1005, July 2011. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://imajna.oxfordjournals.org/content/31/3/971.full.pdf+html.

Zietak:1983:PMS

[2251] K. Ziętak. The properties of the minimax solution of a nonlinear matrix equation $XY = A$. *IMA Journal of Numerical Analysis*, 3(2):229–244, 1983. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Zietak:1987:PSL

[2252] K. Ziętak. Properties of the l_1-solutions of the linear matrix equation $AX + YB = C$. *IMA Journal of Numerical Analysis*, 7(2):223–233, 1987. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Zietak:1989:PAM

[2253] K. Ziętak. Properties of the approximations of a matrix which lower its rank. *IMA Journal of Numerical Analysis*, 9(4):545–554, 1989. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic).

Zubik-Kowal:1997:MLP

[2254] Barbara Zubik-Kowal. The method of lines for parabolic differential-functional equations. *IMA Journal of Numerical Analysis*, 17(1):103–123, January 1997. CODEN IJNADH. ISSN 0272-4979 (print), 1464-3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_17/Issue_01/170103.sgm.abs.html.

Zvan:2001:FVA

[2255] R. Zvan, P. A. Forsyth, and K. R. Vetzal. A finite volume approach for contingent claims valuation. *IMA Journal of Numerical Analysis*, 21(3): 703–731, July 2001. CODEN IJNADH. ISSN 0272-4979 (print), 1464-

3642 (electronic). URL http://www3.oup.co.uk/imanum/hdb/Volume_21/Issue_03/210703.sgm.abs.html; http://www3.oup.co.uk/imanum/hdb/Volume_21/Issue_03/pdf/210703.pdf.