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Nelson H. F. Beebe
University of Utah
Department of Mathematics, 110 LCB
155 S 1400 E RM 233
Salt Lake City, UT 84112-0090
USA

Tel: +1 801 581 5254
FAX: +1 801 581 4148

E-mail: beebe@math.utah.edu, beebe@acm.org,
beebe@computer.org (Internet)
WWW URL: https://www.math.utah.edu/~beebe/

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(ϑ) [AK20a]. 1 [KLMZ21]. 2 [DFFS22, HM22]. 3 [FGOS20, FLH23, Han23, HJHUT20, KLMZ21]. ^{k} [CCMP24]. A [LWC23]. $H(\mathbf{curl})$ [Hu23]. H^1 [FH24]. $H(\mathrm{div})$ [FH24]. $o\left(\frac{1}{k}\right)$ [BN23]. C^1 [CJZ22]. δ [HX20]. ℓ_2 [GPHHA20]. ℓ_∞ [GPHHA20]. Γ [GKMR22]. H [WX20]. $H(\mathrm{curl})$ [CFV23]. $H(\mathrm{curl})$ [WYZ20b]. $H(\mathrm{DIV})$ [Mu20]. H^1 [QW23]. H^2 [AP20]. H^m [CHW22]. $H \in (0,1)$ [ND22]. hp [AH21, AP21a, AP21b, DMS21, FMMS23]. L^2 [AXSZ22, CSWY23, DST21]. L^∞ [CMZ21]. L^p [DST21]. L_1 [Mus20, NT21a]. p [BDS23, BHL21, CDCVV21, CFV23, KR23a, KR23b, KR23c, MPV20, WL20]. ϕ [DL20b]. Q [GWY22]. r [ARSY20]. θ [WZZ22].

-Conforming [CHW22]. **-Convergence** [GKMR22]. **-Curl** [WL20]. **-Dimensional** [HJHUT20]. **-Discontinuous** [DMS21]. **-Elliptic** [Hu23]. **-FEM** [FMMS23, AP21a, AP21b, DL20b]. **-Field** [FGOS20]. **-Laplace-Type** [BHL21]. **-Laplacian** [BDS23, CDCVV21]. **-Navier** [KR23a, KR23b, KR23c]. **-Norm** [QW23]. **-Projection** [DST21]. **-Robust** [CFV23, MPV20]. **-Singularities** [HX20]. **-stability** [AK20a, DST21]. **-Stable** [AP20, LWC23]. **-Tensor** [GWY22].

1-Wasserstein [XLZZ24].

2 [ARSY20].

Absorption [GSZ20]. **Acceleration** [BC22, BM22, EPRX20]. **Accuracy** [ARSY20, HKYY21, LAZ22, MR21, WZ23, YHLR22]. **Accurate** [CS22a, EW21, EG22, FR21, LWZ20]. **Acoustic** [ZWC20]. **Active** [LO23]. **Adaptation** [CAGD22]. **Adaptive** [AB24, BLY21, BIP22, CN21, CM21, CLS23, EEST22, HAST22, HL23, MRV23, QZ20, WYZ20b, dVCN+23]. **Additive** [BJ22, CHS21, KLS20, Par20, YDS21]. **adjoint** [CM21, LWZ20]. **Advancement** [AH21]. **Advection** [HZ20, MZZ22, SWZ20]. **Affine** [BG20, EEST22]. **Agglomeration** [ABBV23]. **Agglomeration-Based** [ABBV23]. **Algebraic** [BKSS24, MPV20, Xia21]. **Algorithm** [ARSY20, BdBEO21, BHYZ23, BC20, BN23, Col23, GW20, GANT20, QWL22, SSZ23, TWZZ23, ZRZ23]. **Algorithmic** [HHM+20]. **Algorithms** [BW20, CL21, CCW21, CDD+20, DH21, HPBL21, MR21, Ni21, SZ21a]. **Allen** [CGP20, JLQ22, lLTZ20]. **Alternative** [WR21]. **American** [DLZ20]. **AMF** [GPHHA20]. **AMF-W-Methods** [GPHHA20]. **Amplitude** [IG21]. **Amplitude-based** [IG21]. **analogue** [AK20a]. **Analyses** [LET20]. **Analysis** [AGS21, AB20, ADS23, ABCS24, BGNS20, BCJQ24, BK21, BSWW22, BPS22, BH21, CJZ22, CH22a, CL21, CFV23, DN21, DEL21, DS20, DGL20, EH22, FGOS20, FA22, FGP21, Gal21, GHM21, GS23, GKS23, GMSZ22, GKMR22, GWY22, Guo21, GK24, Hal21, HY22, HN21, HS21, HS23, HPBL21, JLZ24, JZ21a, JK22, KR23a, KS20, KM20a, Kop20, KLMZ21, LS20a, LWS22, LZ23, LWWW22, LRK22, LZCZ22, LWXZ20, MSD22, MST22, MST20, MS20, Mus20, ND22, NR21, OS24, Otá22, Pap22, RS21a, Rub20, RN20, SGT20, SC23a, Sun21, WLPU21, Wan23, WYZ24, WYZ20a, WB21, WLF23, XZ22, YZZ20, ZZZ22b, ZN23, ZDMZ20, ZQ23, ZL21, ZW23, dVCN+23, vWR23]. **Anderson** [BC22, EPRX20]. **Anisotropic** [AK20b, BJL23, CAGD22, Hal22]. **Anisotropically** [ST22]. **Any** [AK20b, WHL21]. **AP** [PCQL21]. **Application** [ACM24, BCT21, BGG23, CFV23, CMZ21, DH21, HLM22, JLY21, KN23, LZ23, PR22]. **Applications** [CS23, GP22, JLM22, Kar21, LJL+21]. **Applied** [BJ22, CMZ21, GANT20]. **Applying** [VL23]. **Approach** [AHW23, BHL24, CS22b, GKN21, Mai21]. **Approaches** [GFSZ20]. **Approximability** [RW24]. **Approximants** [NT21a]. **Approximate** [Lab20, WLPU21, Zha23b]. **Approximated** [DXY22]. **Approximating** [CGR20, DMM24, FL21, Ni21]. **Approximation** [AN21, AJH23, BPW23, BO20, BHL21, BG20, BHL24, CC23, CS23, CRR24, DLZ20, DH21, DSY21, DDO20, EHK24, EG23, FLO20, Gaw20, GSW21, GPR20, HKYY21, KR23a, KR23b, KR23c, KLMZ21, LS20b, MSS20, Mus20, NT21b, OS24, PS20, PS21, PSS22, RSS22, Spr24, WYZ20b, Xia21, ZSH20, ZZZ22b, ZW20a, ZW20b, ZDMZ20, dDFH23]. **Approximations** [AP21a, AP21b, ADM17, ADM21, BR20b, BLV20, BDG23, CZZ22, DGL20, EW21, GS23, GMSZ22, GKMR22, GHM20, HL23, HK20, JZ21a, MSD22, MNO21, Wan23]. **Arbitrary** [CHW22, CH22b, Han23, HX20, Kam21, LMN23]. **Area** [JSZ23, KYB23]. **Area-Preserving** [JSZ23]. **Arising** [dDFH23]. **Arnoldi** [CCW21]. **Artificial** [DIL+20, JLY21, SWZ20]. **Assimilation** [GANT20]. **Assumptions** [Kam21]. **Asymptotic** [DHS24, EHK24, GV20, GGHS22, GPR20, HD24]. **Asymptotic-Preserving** [EHK24, GV20]. **Asymptotically** [CHJS21, LTTF21]. **Asymptotically-Preserving** [CHJS21]. **Attractors** [DK23, LYC23]. **Average**

[CDW24, YDS21]. **Averaged** [WX20]. **Axisymmetric** [DN21].

B [HHM+20]. **B-Splines** [HHM+20]. **Backpropagation** [ABCS24]. **Backward** [HHL24, KV22, WZZ22]. **Balance** [LWWW22]. **Banach** [MvdZ20]. **Barrier** [KM20a]. **Based** [AHW23, ABBV23, BGNS20, BHLZ24, BdBEO21, BHYZ23, BFS23, CFV23, CCL23, CLR23, CCMP24, CDD+20, DMS21, GW20, LL22a, MSD22, MRV23, PS21, Rub20, AF21, IG21, KS20, PCQL21]. **Basis** [HO24]. **Batch** [JLL21]. **Bates** [BCT21]. **Bathymetry** [NPT22]. **Bayesian** [ACM24]. **BDF** [AK20a, ACYZ21, LWZ20, lLTZ20, LL22b, SC23b]. **BDF2** [LlL22]. **BDF3** [LlL22]. **Beam** [QS21]. **Beavers** [SSZ23]. **Behavior** [CCHHK20, MPV20]. **Bellman** [CFF20, FL21]. **Bernoulli** [DSS24]. **Besov** [WSH20]. **Best** [DH21, NT21a]. **Between** [SZ21a, GB20]. **Beyond** [GK24]. **Bi** [CP23]. **Bi-Laplacian** [CP23]. **Bianchi** [HLM22]. **Biharmonic** [CKP23, DMS21, DE22, MSS20, YZ20]. **Biomaterials** [GKMR22]. **Biot** [GVMRBV23]. **Biperiodic** [Zha23a]. **Bitemperature** [ADBP22]. **Block** [LWC23, LWX24]. **Blow** [CRR24, KM20b]. **Blow-Up** [KM20b]. **Blow-Ups** [CRR24]. **Boltzmann** [DHS24, DEL21, HQY21, PR22]. **Borrvall** [Pap22]. **Bound** [CDW24, MQ23, SX20b, CS22b]. **Bound-Preserving** [CDW24]. **Boundary** [AHW23, BFS20, CMZ21, DFFS22, GZ21, GMSZ22, HJHUT20, HS21, JK22, KN20, Met21, NPT22, NH20, SBL22, SWZ20, WM23, YHLR22]. **Bounded** [HW22, LM22b, QS21, ZW22]. **Bounds** [BCY21, BCF22, BW24, CZZ20, CP23, FV23, GO23, HM22, Kam21, KRS+21, KM20b, WR21]. **Branching** [SX20a]. **Bregman** [BCJQ24]. **Brezzi** [AK20b]. **Brinkman** [Mu20]. **Brownian** [FLO20]. **Bubble** [BV22]. **Bubble-Enriched** [BV22].

C [ALOS23]. **Cahn** [CSWY23, CHSZ23, CGP20, CHS21, JLQ22, lLTZ20, LMR23, Met21, QW20]. **Can** [CZZ20]. **Cardinality** [BC20]. **Carleman** [BdBEO21]. **Carleman-Based** [BdBEO21]. **Carlo** [CG24, FA22, GKS23, GSM24, HAST22, HZW23, KVM22, LWY23, SSX23, TS23]. **Case** [CL21, GHM20]. **Cases** [FH24]. **Cauchy** [BGJ22]. **Cell** [CDW24, GKMR22]. **Cell-Induced** [GKMR22]. **Central** [WJS23]. **Certain** [RW24]. **Chains** [BCT21]. **Changing** [CLR23]. **Chaotic** [LWXZ22]. **Characteristic** [MZZ22]. **Characteristics** [Sun21]. **Characteristics-Mixed** [Sun21]. **Charged** [HLS23, WZ21]. **Charged-Particle** [HLS23, WZ21]. **Chebyshev** [CHS20, Huy22, SST+20, Wan23]. **Chemotaxis** [FHW21, GGC23]. **Chemotaxis-Consumption** [GGC23]. **Chemotaxis-Stokes** [FHW21]. **Choice** [KR20]. **CIP** [ZW23]. **CIP-FEM** [ZW23]. **Class** [ACM24, BCJQ24, CT21, HS21, HD24, Lab20, LWZ20, NPT22, SX20b]. **Classes** [AN21, RW24]. **Classical** [CS22a, FV23]. **Close** [ARSY20]. **Closed** [BL23, BJL23, Li21]. **Clustered** [LWX24]. **Coefficient** [BJ22, JZ21a]. **Coefficients** [CLR23, Hu21, Hu23, Mai21, OP24, Spr24]. **Coercive** [WL23]. **Collocation** [AB20, CL20, CCL23, EEST22, FLM21, LL22a, LTTF21]. **Commutativity** [FdRS24]. **Compact** [AKM23, CGR20, TS23]. **Compact-Equivalent** [AKM23]. **Comparison** [GB20]. **Compatibility** [HD24]. **Compatible** [BD23, LTTF21, Geo21]. **Complex** [AKM23, ACW21, DH21, Hal21, Hal22]. **Complexes** [HLM22, HZZ22]. **Complexity**

[JK22]. **Complicated** [Zha23b]. **Compressibility** [JLY21]. **Compressible** [LS22]. **Compression** [DIL+20, FP20]. **Computation** [ACW21, DH20, Geo21, HHM+20, Huy22, LWXZ22, Sto20]. **Computational** [GO23, HP20, LJL+21]. **Computations** [Col23]. **Compute** [CZZ20]. **Computing** [AB20, Col22, JLZ24, LWXZ20]. **concept** [AK20a]. **Condition** [FdRS24]. **Conditions** [BKSS24, BFS20, DNT22, GSZ20, HS21, JK22, KN20, Met21, NPT22, NH20, Otá22, SBL22, SSZ23, SWZ20]. **Conductor** [RS21a]. **Conductor-like** [RS21a]. **Conforming** [BDL20, CJZ22, CHW22, CH22b, FK22, HLM22, KK20]. **Congested** [PS22]. **Connected** [KOO23]. **Connections** [SZ21a]. **Conservation** [AXSZ22, BR20a, CDW24, DMM24, FR21, FMR22, LZM+20, LLS21, PS20]. **Conservations** [WZ23]. **Conservative** [CDP22, DWW22]. **Conserving** [AP21a, AP21b, AP22, GLS20, MCL20, FLM21]. **Consistency** [MT20, YZZ20]. **Consistent** [HS23]. **Constant** [Gal21, Sto20]. **Constituted** [FGOS20]. **Constrained** [LWY23, GZ21, HW21]. **Constraints** [BPW23, YZDCNC23]. **Constructing** [CS22b]. **Consumption** [GGC23]. **Continuation** [BDE21, BDE23]. **Continuous** [AHV22, BSWW22, LET20, XLZZ24]. **Continuum** [RS21a]. **Contraction** [LPW24, dVCN+23]. **Contractivity** [SZ20]. **Control** [BHYZ23, CC23, CL21, CGN24, CMZ21, CLR23, Col22, DH21, GO21, GMSZ22, HPBL21, LSTY21, LS24, MK20, MU22, MST22, Otá22]. **Control-Based** [CLR23]. **Convected** [MNO21]. **Convection** [CCHHK20, CJZ22, MST22, WX20, WLF23, ZSH20, ZRZ23]. **Convergence** [AP21b, ALW21, AB20, ABCS24, AKM23, BR20a, BL23, BLM21, BCJQ24, BR20b, BK21, BJ22, BCF23, BSWW22, BN23, BO20, BH21, BCT21, BDG23, CL21, CAGD22, CN21, CP23, CZZ22, CLLZ24, CAS23, CHS21, DXY22, EEST22, EH22, EPRX20, FGK23, FKM22, FMMS23, FDvW21, FMR22, GPHHA20, GKMR22, GB20, GWY22, GLW22, GGC23, HP20, Hu21, HQY21, Hu23, HPBL21, JLL21, KR23a, KR23b, KR23c, KR20, LPW24, Li20, Li21, LS22, LYC23, LWWW22, LMR23, LZCZ22, LWXZ20, MS23, NSD22, ND22, Otá22, QW23, SGT20, SC23a, WYZ20a, WSH20, WR21, Xia21, XLZZ24, XZ22, YZZ20, YC21, ZWC20, Zha22, ZN23, Zha23a]. **Convergent** [BNY23, CG20, JZ21b, LWX20, LWXZ22, Met21, NRY22]. **Converging** [EPRX20]. **Convex** [BLV20, BC20, CT21, KR20, Par20, SZ20]. **Convexity** [JSZ23]. **Convexity-Preserving** [JSZ23]. **Convolution** [LM22a, SC23b]. **Cook** [QW20]. **Correct** [EG23]. **Correction** [Lab20]. **Corresponding** [MPV20]. **Corrigendum** [ADM21]. **Cost** [AB24]. **Countably** [PSS22]. **Coupled** [CS22c, KLMZ21, vWR23]. **Coupling** [BJMO22, DFFS22, GHM21, KV22, ZCPZ21]. **Covariances** [BGNS20]. **Crank** [AGS21, JLY21, SR20]. **Cross** [BPS22, CG20, DNT22]. **Cross-Diffusion** [BPS22, CG20]. **Cross-Points** [DNT22]. **Crowd** [LMSS20]. **Crystal** [BNY23]. **Crystalline** [BO20]. **Crystals** [GWY22, NRY22]. **Cube** [MSS20]. **Cubic** [CG24]. **Curl** [CFV23, EG23, WL20, WX20]. **Curse** [RW24]. **Curvature** [BL23, DN21, DN23, EG22, Gaw20, Li21]. **Curve** [JSZ23, Li20, YC21]. **Curved** [AW20, AJH23, DFFS22, GHM20, NO21, WM23]. **Curves** [BJL23, SJ21]. **Cut** [BHL24].

D

[DFFS22, FLH23, HM22, Han23, KLMZ21].

Darcy [FA20, JLY21, SSZ23, ZCPZ21]. **Data** [CDD+20, Col23, DH20, DSY21, DGL20, FHK22, GANT20, Gla20, HL23, LM22a, LLMR23, LWZ23, bLWZ21, LCS24, LS20b]. **Data-Based** [CDD+20]. **Data-Driven** [Col23]. **Davidson** [LWX24]. **Decay** [WS23]. **decaying** [ALW21]. **Decomposition** [AFB+21, CDW24, DNT22, GSZ20, Hu21, KRS+21, LS20b, MS21, NR21, RS21a, SSZ23, Zha23b]. **Deconvolution** [Lab20]. **Decoupled** [FHW21, LMR23, ZRZ23]. **Decoupling** [LUZ20]. **Decreasing** [JSZ23]. **Deep** [AN21, DGYZ22, GHLY23, HPBL21, MS23, MR21]. **Defect** [BO20]. **Defected** [YHLR22]. **Defined** [DL20b, SJ21]. **Deformations** [RSS22]. **Degenerate** [CT21, DE20]. **Degree** [GGPS21]. **Degrees** [CKP23]. **Densities** [GKS23]. **Density** [GHLY23, KN23]. **Dependence** [HHL24]. **Dependent** [GVMRBV23, HK20, KS20]. **Derivative** [BBH22, DGG20, EW21, GAJN23, KM20a, MNO21]. **Descent** [JLM22]. **Design** [MSD22]. **Detailed** [LWWW22]. **Deterministic** [GFSZ20]. **Deviations** [CHJS21]. **DG** [ZCPZ21]. **Diagonalization** [GW20]. **Diagonalization-Based** [GW20]. **Difference** [AF21, AGS21, AY20, DN21, lDzSW22, FL21, FLH23, GvR24, KRS+21, MNO21, MSS20, RN20, SBL22, WK23, ZW22, Zou23]. **Difference-Discontinuous** [WK23]. **Differential** [ACM24, AB20, DK23, EEST22, GNS20, GHM20, GLS23, HHL24, HT20, HK20, LL22a, LZ23, lLLL23, MS23, OS24, OSV23, SW23, SZ21a, WZZ22]. **Diffraction** [HN21]. **Diffusion** [AHW23, BZ21, BJL23, BJ22, BPS22, BCT21, CK20, CG20, CCHHK20, CJZ22, CCL23, DEL21, DL20a, EEST22, GVMRBV23, HZ20, HLTW21, JZ21a, KVM22, KV22, KR23d, LMSS20, LTTF21, LWWW22, MZZ22, MST22, Mus20, NSD22, ND22, SWZ20, WR21, WX20, YZDCNC23, ZZZ22b, ZW20a, ZW20b, ZDMZ20]. **Diffusions** [GHLY23]. **Diffusivity** [LWXZ20]. **Dimension** [CHW22, CH22b, GK24, HO20, HO24]. **Dimensional** [ADBP22, BPP20, CCMP24, GV20, GK24, HHL24, HJHUT20, HK20, JLM22, KLMZ21, LWX20, LCS24, PS21, PSS22, QS21, RW24, ZWC20, Zha23a]. **Dimensionality** [RW24]. **Dimensions** [BLY21, HZZ22, KN23, Led21, SSX23, WHL21, IG21]. **Diminishing** [CG20]. **Dirac** [BCY21]. **Direct** [CP23]. **Dirichlet** [CMZ21, GMSZ22, Zha23b]. **Dirichlet-to** [Zha23b]. **Discontinuities** [ARSY20]. **Discontinuous** [AXSZ22, AM22, BR20a, BCF23, CDG23, CFV24, Che21, CDP22, CHSZ23, CS22c, DHS24, DMS21, DS20, DWW22, EG23, FHN23, GM22, HX20, KR23a, KR23b, KR23c, KK20, KR23d, LET20, LR20, LZM+20, LLS21, Pap22, Spr24, WK23, WJS23, XSZ20]. **Discontinuous-Galerkin-in-Time** [CS22c]. **Discovery** [DGYZ22, KD21]. **Discrepancy** [MR21]. **Discrete** [AM22, ADBP22, BR20b, CHKL22, CRR24, DN23, GHM21, GZ21, GV20, GWY22, GGC23, Guo21, Kar21, KN20, LYC23, lLLL23, LZCZ22, NPT22, QW20, XLZZ24, YC21, ZZZ22b]. **Discrete-Time** [LYC23]. **Discretization** [ABB+21, ACM24, BGJ22, BPS22, BGG23, Che21, CHS21, DL20a, GS21, HW22, LSTY21, LMSS20, MvdZ20, SR20, YZZ20, ZZZ22a]. **Discretizations** [CFV22, CFV24, DRV21, DMS21, GGPS21, MST20, RN20]. **Discretized** [BDE23, FM21, LPW24]. **Disparate** [JLL21]. **Dispersion** [ZW23]. **Dissipative** [GW20, SX20b]. **Distance** [XLZZ24]. **Distances** [CWW24]. **Distributed** [HMO22, bLWZ21, LS24]. **Distribution** [GKS23, HHL24]. **Div** [EG23, CH22b, WX20]. **div-** [CH22b]. **divdiv** [CH22b, HLM22].

divdiv-Conforming [CH22b]. **Divergence** [BDL20, BHL24, FK22, Gal21, Han23, KK20, LS22, NO21, VL23, WHL21]. **Divergence-Conforming** [BDL20, FK22, KK20]. **Divergence-Free** [BHL24, Han23, LS22, WHL21, NO21]. **Domain** [AFB+21, AJH23, BK21, DNT22, GSZ20, RS21a, SSZ23, WYZ20a, vWR23]. **Domains** [AJH23, CC23, CFV20, DL20b, GHM20, HW22, KLMZ21, LWX20, LL22b, MZZ22, NO21, QS21, SJ21, SST+20, ST22, ZW22]. **Douglas** [AK20b]. **Downscaling** [GANT20]. **DP** [BPP20]. **DPG** [FH24]. **Drift** [BJ22, BDG23, CCW22]. **Driven** [BH21, Col23, CHS21, NSD22, ND22, PSS22]. **DtN** [BLY21]. **Dual** [BBH22, CK20, CWW24, WW20]. **Dynamic** [MQ23, Met21]. **Dynamical** [Col23, DEL21, EHK24, Guo21]. **Dynamics** [BCF22, DGYZ22, FV23, HLS23, KD21, LPW24, LZCZ22, WZ21, ZZZ22a]. **Dziuk** [BL23, Li20, Li21, YC21].

Earth [GP22]. **EC** [CCMP24]. **Edge** [WYZ20b]. **Effective** [LWXZ20]. **Efficiency** [HP20]. **Efficient** [BS22, Met21, PSS22, SSX23, WL23]. **Eigenspaces** [DE24]. **Eigenstates** [ST22]. **Eigenvalue** [ACZ24, CZZ20, CP23, CLLZ24, GLS23, HMO22, HP20, HT20, Kam21, LX23, RN20, Sch23, SC23a]. **Eigenvalues** [DE24, GO23, GSW21, LWX24]. **Einstein** [HLM22]. **Elastic** [BLY21, Bar20, CHH23, QS21, ZW22]. **Elasticity** [AKNY20, YLZ22, ZQ23]. **Electric** [HY22]. **Electromagnetic** [WYZ20a]. **Element** [AKNY20, ABBV23, AH21, AJH23, BL23, BLY21, BZ21, BJL23, BPW23, BLV20, BGJ22, BPP20, BDL20, BGHY22, BFS23, BFS20, BHL24, CGO20, CK20, CSWY23, CZZ20, CM21, CFV22, CZZ22, CHH23, CHW24, CAS23, DN24, DFFS22, DL20b, DGL20, DWW22, ER20, ER21, FA20, FLM21, FLH23, GS23, GANT20, Geo21, GSW21, GLW22, Han23, HG22, HL23, HJHUT20, HLM22, HZZ22, JKVY23, JLWZ22, JSZ23, JZ21a, Kam21, LSTY21, Li20, LWX20, Li21, LAZ22, LZ23, LS24, LL22b, MCL20, MZZ22, MSD22, Met21, Mu20, MRV23, NRY22, QW20, QZ20, RSS22, Spr24, Sto20, WW20, WYZ20b, WX20, WB21, WLF23, ZSH20, dDFH23]. **Elements** [AW20, BL23, BV22, CKP23, CHW22, CH22b, Gaw20, GMMP24, Li21, NO21, WHL21]. **Elliptic** [BIP22, CM21, DHM23, DE20, EEST22, EH22, GHM20, GMP22, HL23, Hu23, JZ21a, LWX24, Mai21, MK20, MS23, QZ20, SC23a, Spr24, WYZ20b]. **Embedded** [LR20, NWZ22]. **Energy** [ALW21, ACYZ21, AHW23, BCJQ24, BLN21, CDCVV21, DWW22, EHK24, FLM21, GMSZ22, GKMR22, GWY22, HLTW21, LSTY21, lLTZ20, LMN23, MCL20, MQ23, PCQL21, RK20, SX20b, SWW22, WB21]. **Energy-based** [PCQL21]. **Energy-conserving** [FLM21]. **Energy-decaying** [ALW21]. **Energy-Preserving** [WB21]. **Energy-Stable** [GWY22]. **Enhanced** [DGG20, PCQL21]. **Enhancing** [MR21]. **Enriched** [BV22, YLZ22]. **Ensemble** [AHV22, BSWW22, CST20, JLY21, SSZ23]. **Entropic** [CHKL22]. **Entropy** [BPS22, CHKL22, CG20, DMM24]. **Equation** [ABB+21, ALW21, AGS21, BLM21, BCY21, BCF22, BW24, BK21, BDL20, BS22, BDE21, BGG23, BDE23, CS22a, CKP23, CFV20, CMZ21, CDP22, CHSZ23, CHS21, DFFS22, DNT22, DEL21, DWW22, FLM21, Geo21, GM22, GMMP24, GSZ20, GPR20, HQY21, JLWZ22, KK20, KLS20, KM20b, LY20, LWY23, lLTZ20, LLZZ22, LS24, MZZ22, MST22, MSS20, Mus20, NSD22, ND22, NWZ22, PR22, QW23, SX20a, Sto20, WK23, WYZ24, WB21, YZ20, YHLR22, ZW22,

ZW20a, ZW23, Zou23, QW20]. **Equations** [ACM24, AB20, ADM17, ADM21, Avi23, BR20b, BM22, CCHHK20, CJZ22, CFF20, CN21, CFV22, CFV24, Che21, DH22, DL20a, DE20, DS20, lDzSW22, DK23, DGL20, ER21, EEST22, EH22, FHW21, FL21, FLH23, FM21, GS22, GS23, GANT20, GHM20, GLS23, GO20, HM22, HHL24, Han23, HZ20, HX20, HS20, Hu21, HS21, HS23, HK20, IG21, JKVY23, Kam21, Kar21, KN20, KS20, KV22, Kop20, KR23d, LL22a, Led21, LWX20, LS20a, LWZ20, LAZ22, LM22a, LM22b, LWS22, LMS22, LLMR23, LWZ23, LWC23, MQ23, MS23, Met21, NPT22, OSV23, PS22, QS21, QZ20, SGT20, SW23, SZ21a, SX20b, SR20, Spr24, SWZ20, WZ20, WW20, WZZ22, WS23, WJS23, XSZ20, YZDCNC23, ZZZ22b, ZW20b, ZDMZ20]. **Equilibrated** [CFV23]. **Equivalent** [AKM23]. **Ergodic** [CL21]. **Ergodicity** [TS23]. **Ericksen** [NRY22]. **Erratum** [BL23]. **Error** [ALOS23, AXSZ22, AGS21, ACZ24, ADM17, ACW21, BCY21, BCF22, BW24, BPW23, BLV20, BV22, BBH22, CSWY23, CDG23, CH22a, CGN24, CFV22, CFV24, CMZ21, CGP20, Col22, DLZ20, DN21, DEL21, DGG20, DRV21, DMS21, DS20, DGYZ22, FV23, FHW21, FGP21, Gal21, GANT20, GGPS21, GO21, GK24, HW22, HZ20, HZW23, HS21, HS23, JZ21a, KS20, KK20, KRS+21, KM20a, Kop20, KR23d, KM20b, LS20a, LWS22, MST22, MS20, MPV20, Mus20, NT21a, NR21, Otá22, QW20, WLPU21, WL20, WZ21, Wan23, WYZ24, WR21, WB21, XSZ20, ZZZ22a, ZW20a, ZDMZ20, Zou23, dVCN+23, vWR23, ADM21, JK22]. **Errors** [BIP22]. **Estimate** [AXSZ22, BBH22, DRS24, FHW21, XSZ20, ZW20a]. **Estimates** [AM22, ACZ24, ADM17, ADM21, BW22, BPW23, BLV20, BV22, BLN21, CGO20, CSWY23, CDG23, CFV22, CFV24, CMZ21, CGP20, DLZ20, DRV21, DMS21, GANT20, GO21, HW22, HZ20, HG22, KR23d, MST22, QW20, SR20, WZ21, ZZZ22a]. **Estimation** [BIP22, CDD+20, DGYZ22, GHLY23, KN23, WL20, Zou23]. **Estimator** [GGPS21, KK20, MPV20]. **Euler** [AGS21, ADBP22, BJ22, KLS20, ZZZ22a]. **Eulerian** [HX20, LMN23, vWR23]. **Evaluation** [SWZ20]. **Events** [WLPU21]. **Evolutionary** [WS23]. **Evolutions** [MS20]. **Evolving** [LL22b]. **Exactly** [LS22]. **Expanding** [ST22]. **Expansion** [CGR20, FDvW21, HN21, SGT20]. **Expansions** [ZWC20]. **Expected** [FP20]. **Explicit** [AH21, BGG23, CFV22, CFV24, CAS23, HM22, MST20, OSV23, RK20, AK20a, LWZ20]. **Exponent** [BDS23]. **Exponential** [BW24, DH22, FMMS23, HKYY21, JLQ22, LM22a, LMS22, LLMR23, LWZ23, MS23, NWZ22, OSV23, ZWC20, Zha22]. **Exponential-Type** [NWZ22]. **Extension** [HHM+20]. **Extensions** [Hu21]. **Exterior** [DFFS22]. **Extrapolation** [ZEG20]. **Extrinsic** [CL20, CHW24].

Face [VL23]. **Factorization** [ST22]. **Family** [HZZ22]. **Fanbeam** [BH21]. **Fast** [BN23, DL20a, QS21, SST+20, SWZ20, ZDMZ20]. **FBSDEs** [YZZ20]. **FEAST** [HT20]. **FEM** [AP21a, AP21b, AP22, BIP22, BNY23, CN21, DL20b, FKM22, FMMS23, FHW21, ZW23]. **FEMs** [Sun21]. **FETI** [BPP20]. **FETI-DP** [BPP20]. **Fibrous** [GKMR22]. **Field** [Avi23, CSZ24, CL21, FGOS20, HN21, Kar21, LS22, LJL+21, OS24, WZ21]. **Fifth** [HKYY21]. **Fifth-Order** [HKYY21]. **Film** [FM21]. **Filter** [QWL22]. **Filtered** [bLWZ21, WLF23]. **Filtering** [ACM24]. **Filters** [FGK23]. **Finite** [AF21, AKNY20, AGS21, AY20, AH21, AJH23, BL23, BLY21, BZ21, BJL23, BPW23, BLV20, BDL20, BGHY22, BFS23, BHL24, BD23, CGO20, CK20, CSWY23, CG20, CCHHK20, CZZ20, CM21, CFV22, CH22b, CZZ22, CHH23, CAS23, DN21,

DN24, lDzSW22, DL20b, DGL20, ER20, ER21, FA20, FLM21, FL21, FLH23, FMR22, GvR24, GS23, GANT20, Gaw20, Geo21, GSW21, GLW22, Han23, HL23, HLM22, HZZ22, HPBL21, JKVY23, JLWZ22, JSZ23, JZ21a, JZ21b, Kam21, KSG23, LSTY21, Li20, LWX20, Li21, LZ23, LS24, MCL20, MZZ22, MSD22, MT20, MNO21, Met21, Mu20, MRV23, MSS20, NRY22, QW20, QZ20, RN20, RSS22, SBL22, Spr24, Sto20, WW20, WK23, WX20, WB21, WLF23, ZSH20, ZW22, Zou23, dDFH23, BGJ22, LL22b]. **Finite-Difference** [SBL22]. **Finite-Element** [AJH23]. **Finite-Volume** [JZ21b]. **Finitely** [KOO23]. **First** [CSZ24, EG23, GS22, LJL+21, QZ20, WYZ24]. **First-Order** [EG23, LJL+21, QZ20, WYZ24]. **Fixed** [BC22, BN23, EPRX20]. **Fixed-Point** [EPRX20]. **Flow** [AFB+21, AP21a, AP21b, AP22, BL23, BW22, BHL24, CLLZ24, DN21, DN23, GLS20, GLW22, HP20, HD24, JSZ23, Li20, Li21, Sun21, YC21, GWY22]. **Flows** [CWW24, GAJN23, GMSZ22, JLQ22, Lab20, LWXZ20, LWXZ22, NR21, Rub20, ZEG20]. **Fluid** [ALOS23, FK22, GP22, ZSH20, ZRZ23]. **Fluid-Fluid** [ALOS23]. **Fluid-Structure** [FK22]. **Fluids** [FGOS20]. **Flux** [BR20a, BGHY22, CFV23, ER20]. **Flux-Mortar** [BGHY22]. **Fluxes** [LZM+20]. **Fokker** [BS22, LLZZ22, WW20]. **Followed** [GKS23]. **Forchheimer** [FA20, ZCPZ21]. **Forcing** [HL23]. **Form** [DWW22, EG23, LZ23, QZ20, Spr24, WK23]. **Formulae** [KYB23]. **Formulation** [BHYZ23, BPS22, FGOS20, GS22, GVMRBV23, GLS20, Led21]. **Fortin** [FH24]. **Forward** [HHL24]. **Fourier** [CLL24, HQY21, LET20, PR22, PS21, SST+20, ZL21]. **Fourier-Based** [PS21]. **Fourier-like** [SST+20]. **Fourier-Matching** [ZL21]. **Fourth** [CGN24, MZZ22, XSZ20]. **Fourth-Order** [CGN24, MZZ22, XSZ20]. **Fractal** [JK22]. **Fractional** [ADS23, BLN21, BG20, BGG23, lDzSW22, FKM22, FMMS23, GO21, HW22, HZ20, Kar21, KM20a, Kop20, KLS20, Mus20, NSD22, ND22, Otá22, SST+20, SSX23, WS23, ZW20a, ZW20b]. **Fractional-Derivative** [KM20a]. **Fracture** [AFB+21, GHM21]. **Framework** [CCMP24, CS22c, LMN23, MG23, RS21b, XZ22, vWR23]. **Free** [BCJQ24, BHL24, DN24, Han23, LS22, NRY22, PS22, SW23, WHL21, YZ20, YLZ22, dVCN+23, LLS21, NO21]. **Free-Congested** [PS22]. **Freedom** [CKP23]. **Frequency** [AB24, CFV22, CFV24]. **Frequency-Explicit** [CFV22, CFV24]. **Frequency-Independent** [AB24]. **Friedrichs** [LZM+20]. **Frog** [JLY21]. **Front** [LWXZ22]. **Full** [BGJ22, Che21, CHS21, GAJN23]. **Fully** [BR20b, CRR24, GWY22, Guo21, QW20, SSZ23, YC21, vWR23]. **Function** [ACW21, CC23, GNÖ23, Led21]. **Functional** [AB20]. **Functionals** [BCJQ24]. **Functions** [AY20, BCKS21, CS23, GvR24, GKS23, Gla20, HHT23, HO20, HO24, Huy22, IG21, KOO23, KSG23, KM20a, MO21, PS21, PU22, RW24, SZ21a, Xia21].

Gain [OP24]. **Galerkin** [AXSZ22, AM22, ADS23, ADM17, ADM21, BCF23, BPS22, BS22, CDG23, CJZ22, CSZ24, CFV24, Che21, CDP22, CHSZ23, CS22c, DLZ20, DHS24, DRV21, DMS21, DE22, DS20, EG23, FA20, FHN23, GS23, GM22, HZ20, HJHUT20, HX20, HQY21, KR23a, KR23b, KR23c, KK20, KR23d, LET20, LR20, LZM+20, LLS21, MCL20, MST20, Mu20, MvdZ20, Pap22, PR22, SST+20, WW20, WK23, WJS23, XSZ20, YZ20, YLZ22]. **Galerkin-Mixed** [GS23]. **Galerkin/Hermite** [BCF23]. **Game** [CSZ24, OS24]. **Games** [CL21, LJL+21]. **Gamma** [NRY22]. **Gamma-Convergent** [NRY22]. **Gauge** [LWZ23, MQ23].

Gauge-Transformed [LWZ23]. **Gauss** [FLM21, KSG23]. **Gaussian** [Gaw20, Huy22, NSD22, ND22, QS21]. **General** [Gla20, GNÖ23, HHL24, Mai21, RS21b, ZEG20]. **Generalized** [CDP22, CAS23, GNS20, GK24, IG21, JLQ22, LZM+20, LWZ23, MSD22, MSS20]. **Generate** [MU22]. **Genetic** [CCW22]. **Genus** [DN21]. **Genus-0** [DN21]. **Geodesics** [ZN23]. **Geometric** [ABBV23, LRK22, TS23, WZ23, WJS23]. **Geometries** [BPV20]. **Geothermal** [QWL22]. **Gibbs** [CHKL22]. **Ginzburg** [GS23, MQ23]. **Glaciology** [dDFH23]. **Global** [BLV20, HP20]. **Gordon** [BCF22, CS22a, MCL20]. **Grad** [EG23, WX20, SGT20]. **Graded** [KM20a, Mus20, ZW20b]. **Gradient** [BHYZ23, BC20, CWW24, CHH23, CLLZ24, DRS24, DL20a, HP20, HK20, JLM22, JLQ22, LWY23, lLLL23, Par20, SZ20, ZEG20]. **Gradient-Dependent** [HK20]. **Gradients** [GZ21]. **Green** [GvR24, KN20, NPT22]. **Grid** [XZ22]. **Grids** [AKNY20, BGHY22]. **Gross** [CLLZ24, HP20]. **Guaranteed** [CP23].

Halton [OP24]. **Hamilton** [CFF20, FL21]. **Hamiltonian** [Ohs23, TS23]. **Harmonic** [BPW23, GLW22, KOO23]. **Hasimoto** [BMS24]. **HDG** [CMZ21, FK22, LRK22]. **Heat** [BDE23, GMMP24, GLW22, KM20b]. **Hellan** [AW20, Led21]. **Helmholtz** [BDE21, CFV20, CAS23, DFFS22, DNT22, GSZ20, HM22, HS20, JLWZ22, LX23, MST20, ZW23]. **Hermite** [AF21, BCF23, KSG23, SGT20]. **Hermite-based** [AF21]. **Herrmann** [AW20, Led21]. **Heterogeneous** [CFV20, CAS23]. **Heuristic** [KR20]. **Hidden** [ZW20a]. **Hidden-Memory** [ZW20a]. **High** [ALOS23, AXSZ22, AH21, BL23, BDE21, BGG23, BDE23, CT21, CDW24, DE22, DHM23, DE20, EW21, FLM21, FdRS24, GvR24, Gaw20, Gla20, GGHS22, GMP22, GK24, HHL24, HS21, HK20, JLWZ22, KN23, Lab20, LET20, Li21, LWC23, LCS24, LZCZ22, Mai21, PS21, RW24, SJ21, SC23b, WZ20, YHLR22, ZZZ22a, ZW22]. **High-Accuracy** [YHLR22]. **High-Dimensional** [GK24, HHL24, HK20, PS21, RW24]. **High-Index** [LZCZ22, ZZZ22a]. **High-Order** [AH21, BL23, BDE21, BDE23, CDW24, DE22, DHM23, GvR24, Gaw20, GMP22, HS21, LET20, LWC23, Mai21, SJ21, SC23b, CT21, DE20, FLM21, Li21, WZ20]. **Higher** [CG24, DRV21, DE24, Zha23a]. **Higher-Order** [CG24, Zha23a]. **Highly** [WZ23]. **Hilliard** [CSWY23, LMR23, QW20, CHSZ23, CHS21, Met21]. **Hiptmair** [Hu21, Hu23]. **Hodge** [WB21]. **Hölder** [HW22]. **Homogeneous** [HQY21]. **Homogenization** [FGP21, Spr24]. **Homogenized** [Spr24]. **Homographic** [DH21]. **Hood** [GS21]. **Horizon** [HPBL21]. **hp** [AP22]. **hp-FEM** [AP22]. **Hurst** [ND22]. **Hybrid** [BCT21, CT21, CFV20, DE22, ER20, GMP22, MS21]. **Hybrid-Mixed** [CFV20]. **Hybridizable** [CHSZ23, DS20]. **Hybridized** [BDE21]. **Hydrodynamic** [LWS22, LWX20]. **Hydrodynamics** [MT20]. **Hyperbolic** [CDW24, DMM24, DN23, HX20, LLS21, SBL22, XSZ20]. **Hyperinterpolation** [bLWZ21]. **Hypersingular** [WM23]. **Hypocoercivity** [Geo21]. **Hypocoercivity-compatible** [Geo21]. **Hysteresis** [PS20].

Ideal [WJS23]. **Identification** [JZ21a, ZZZ22b]. **ii** [Hu23, AP21b, BCKS21, CS22b, JK22, KR23b]. **III** [AP22, KR23c]. **Ill** [GB20]. **Ill-Posed** [GB20]. **IMEX** [GGHS22, HS21, LWS22, WYZ24]. **IMEX1** [PCQL21]. **IMEX1-LDG** [PCQL21]. **Immersed** [Guo21]. **Impedance** [GSZ20].

Implementation [AP22]. **Implicit** [BR20b, BGG23, CDP22, CCMP24, CRR24, GGHS22, Li20, LWZ20, LWC23, YC21, ZEG20, AK20a, LMS22]. **Implicit-explicit** [LWZ20, AK20a]. **Implicitly** [FGOS20, SJ21]. **Importance** [HZW23]. **Imposed** [GLS20]. **Imposition** [BFS20]. **Improved** [BCF22, DHM23, WR21]. **Improves** [EPRX20]. **Improving** [HKYY21]. **Including** [GAJN23]. **Inclusions** [OS24]. **Incompressible** [BHL24, FGOS20, GAJN23, Han23, NR21, Rub20, SR20, Sun21]. **Incremental** [MS20]. **Indefinite** [CM21]. **Independent** [AB24, Huy22, MS20]. **Index** [LZCZ22, ND22, ZZZ22a]. **Induced** [GKMR22]. **Inequalities** [WYZ20b]. **Inequality** [dDFH23]. **Inexact** [XZ22]. **Inextensible** [Bar20]. **Inf** [Pra20, Gal21]. **inf-sup** [Gal21]. **Infinite** [AF21, CS23, JLM22]. **Infinite-Dimensional** [JLM22]. **Informed** [DMM24]. **Inhibiting** [DGG20]. **Initial** [LM22a, NH20]. **Injection** [LRK22]. **Instationary** [GS22]. **Integral** [FKM22, FMMS23, GO20, HW22, KYB23, LM22b, SST+20, SSX23, WM23, YHLR22]. **Integrals** [BHLZ24]. **Integration** [BMS24, CLW21, CLS23, GKS23, GSM24, GK24, IKM22, LTTF21, MO21]. **Integrator** [BLM21, BW24, DEL21, JLQ22, KLS20, LMS22, LWZ23, NWZ22]. **Integrators** [CS22a, DH22, Ohs23, RS21b, WZ23]. **Integro** [LZ23, lLLL23, OSV23]. **Integro-Differential** [LZ23, lLLL23, OSV23]. **Interacting** [JLL21, LWXZ22]. **Interaction** [ALOS23, DXY22, FK22]. **Interface** [CS22c, Guo21, SSZ23]. **Interface-Coupled** [CS22c]. **Interfaces** [ZW22]. **Interpolation** [AK20b, Bör22, GFSZ20, LCS24]. **Interpolatory** [MG23, Pra20]. **Intervals** [CS23]. **Invariants** [IKM22, Ohs23]. **Inverse** [ACL20, BLX20, CZZ22, GB20, JLM22]. **Inversion** [AHV22, BSWW22, CST20]. **Involution** [EG23]. **Involution-Preserving** [EG23]. **Involving** [HX20]. **Isogeometric** [BPV20, MST22]. **Isometric** [RSS22]. **Isoparametric** [LL22b]. **Itô** [GHLY23]. **Iterated** [Bör22]. **Iteration** [BN23]. **Iterations** [AHW23, BCJQ24]. **Iterative** [LX23, MPV20].

Jacobi [CFF20, FL21, LWX24]. **Johnson** [AW20, Led21]. **Johnson-like** [Led21]. **Joseph** [SSZ23]. **Jump** [BCT21, Hu21, Hu23]. **Jump-Diffusion** [BCT21].

Kacanov [BDS23]. **Kalman** [AHV22, BSWW22, CST20]. **Kármán** [CN21]. **Kawasaki** [JZ21b]. **KdV** [LWZ23]. **Keller** [SX20b]. **Kernel** [CCL23, GB20, LTTF21, LCS24]. **Kernel-Based** [CCL23]. **Kernels** [BG20]. **Kind** [LM22b, WYZ20b]. **Kinetic** [BS22, LPW24, SGT20]. **Klein** [MCL20, BCF22, CS22a]. **Kolmogorov** [Geo21]. **Korobov** [KN23]. **Korteweg** [CDP22]. **KPP** [LWXZ22]. **Krasnosel'skiı** [BN23]. **Krylov** [AKM23, BCKS21]. **Kutta** [AXSZ22, BKSS24, GGHS22, OSV23, RK20, SZ20, SWW22, XSZ20].

L2 [MG23, QW23]. **L2-Optimal** [MG23]. **L2-Type** [QW23]. **Lacking** [Pra20]. **Lagrange** [BHL24, CSZ24, CS22b, DLZ20, KLMZ21, LWX20]. **Lagrangian** [CFF20, HX20, LMSS20, LMN23, MT20]. **Landau** [AGS21, BCJQ24, GS23, MQ23]. **Langevin** [LPW24]. **Laplace** [BHL21, BG20]. **Laplacian** [ADS23, BDS23, BLN21, CP23, CDCVV21, FKM22, FMMS23, HW22, HMO22, SST+20, SSX23]. **Large** [BDS23, BM22, CCHHK20, CHJS21, HS20, RSS22]. **Large-Scale** [BM22, RSS22]. **Lattice** [GvR24, LYC23]. **Lavrentiev**

[BGJ22]. **Law** [PS20]. **Laws** [AXSZ22, BR20a, CDW24, DMM24, FR21, FMR22, LZM+20, LLS21, SWW22]. **Lax** [LZM+20]. **Layer** [JLWZ22]. **Layered** [HN21, ZWC20]. **Layers** [BK21, ZSH20, Zha22, Zha23a, ZRZ23]. **LBB** [Sto20]. **LDG** [PCQL21]. **Leap** [JLY21]. **Leap-Frog** [JLY21]. **Leapfrog** [CHS20, CH22a, HLS23, ZN23]. **Leapfrog-Chebyshev** [CHS20]. **Leapfrog-Type** [CH22a]. **Learning** [BHYZ23, CL21, DGYZ22, GHLY23, GB20, HHL24, MR21]. **Least** [CCL23, GS22, HS20, LY20, QZ20, Sto20]. **Least-Squares** [CCL23, QZ20, Sto20]. **Leffler** [KLS20]. **LES-C** [ALOS23]. **Level** [DL20b, LX23, LWX24, FA20]. **Level-Sets** [DL20b]. **Lifshitz** [AGS21]. **Lifting** [PS24]. **Liftings** [AP20]. **like** [Led21, RS21a, SST+20]. **Limit** [AF21, AHV22, BSWW22, CS22a, DEL21, DXY22]. **Limited** [MST22]. **Line** [GKN21, ZDMZ20]. **Linear** [AB24, AFB+21, BIP22, CHJS21, DHS24, DEL21, DGYZ22, FHW21, FK22, GM22, IKM22, KD21, LMSS20, LYC23, MvdZ20, Ni21, SGT20, Sch23, SWW22, XSZ20, YLZ22, ZQ23]. **Linearized** [HLM22, KN20, LWX20]. **Linearizing** [LUZ20]. **Linearly** [EPRX20, Huy22, Li20, YC21]. **Lines** [LMN23]. **Lipschitz** [AY20, HW22]. **Liquid** [BNY23, GWY22, NRY22]. **Local** [BLV20, BLN21, CFV23, DXY22, FKM22, GSZ20, JK22, KR23a, KR23b, KR23c, KV22, LZM+20, MS20, MRV23, ZWC20, ZDMZ20]. **Localization** [NT21a, Wan23]. **Localized** [MS21]. **Locally** [MSD22, YHLR22]. **Locking** [YLZ22]. **Locking-Free** [YLZ22]. **Log** [CS23, NT21b]. **Logarithmatic** [Xia21]. **Logarithmic** [WYZ24]. **Lognormal** [GK24]. **Long** [BCF22, Geo21, LWZ20, WS23]. **Long-Time** [BCF22, WS23, Geo21, LWZ20]. **Lossy** [MST20]. **Low** [BW24, BCKS21, CS22a, DEL21, EHK24, LMS22, MR21, NWZ22, RS21b]. **Low-Discrepancy** [MR21]. **Low-Rank** [BCKS21, DEL21, EHK24]. **Low-Regularity** [LMS22, NWZ22]. **Lower** [AH21, CZZ20, CP23, CHH23, GO23, Kop20]. **Lower-Order** [CHH23]. **Lower-Triangular** [AH21]. **Lowest** [Sun21]. **Lowest-Order** [Sun21]. **lumped** [DE20]. **Lumping** [ER21]. **Lyapunov** [SZ21a].

MAC [LS20a]. **Machine** [BHYZ23, CL21]. **Magnetic** [BCY21, LS22, WZ21]. **Magneto** [LWX20, LWS22]. **Magneto-Hydrodynamic** [LWS22, LWX20]. **Magnetohydrodynamics** [BD23]. **Magnetostatic** [GGPS21]. **Main** [Hu23]. **Manifolds** [CL20, CCMP24, TS23]. **Mann** [BN23]. **Mapped** [SST+20]. **Maps** [BMS24, BPW23, GLW22, WR21, Zha23b]. **Marini** [AK20b]. **Markov** [BCT21]. **Maruyama** [BJ22]. **Mass** [AP21a, AP21b, AP22, AH21, CCW22, DE20, ER21, FLM21, GLS20]. **Mass-** [FLM21]. **Mass-lumped** [DE20]. **Matched** [BK21, JLWZ22, Zha22, Zha23a]. **Matching** [ZL21]. **Material** [CDCVV21]. **Matérn** [BGNS20]. **Matrix** [AH21, BCKS21, GHM21, GLS23]. **Maximal** [AM22]. **Maximization** [CDCVV21]. **Maximum** [HG22, lLTZ20, MQ23]. **Maximum-Principle** [lLTZ20]. **Maxwell** [ACZ24, AJH23, CFV22, CFV24, Che21, DS20, ER21, GO23, GSW21, HY22, Hu21, HLTW21, LX23, MCL20]. **McKean** [HHL24]. **Mean** [BL23, CSZ24, CL21, DN21, HO20, HO24, Li21, LJL+21, OS24]. **Means** [LLMR23]. **Measurable** [BJ22]. **Measure** [Col23, PSS22]. **Measure-Preserving** [Col23]. **Media** [DL20a, FA20, Sun21, ZWC20]. **Median** [GSM24]. **Medium** [ACL20, FM21].

Member [Lab20]. **Membrane** [BNY23]. **Memory** [ZW20a]. **Mesh** [ACL20, CAGD22]. **Meshes** [CDG23, CJZ22, CKP23, ER20, Guo21, Kam21, KM20a, Mus20, QW23, YZ20, ZW20b]. **Meshfree** [HW21, LTTF21]. **Meshless** [CL20]. **Method** [AB24, AXSZ22, ALW21, ACYZ21, AKNY20, ACZ24, ADS23, ABBV23, ABCS24, AW20, BL23, BLY21, BZ21, BJL23, BHLZ24, BGJ22, BPP20, BDL20, BFS20, BDE21, BDE23, BHL24, CGO20, CK20, CHKL22, CLL24, CJZ22, CCW22, CZZ20, CT21, CFV20, CDP22, CCL23, CHH23, CHSZ23, CAS23, CLR23, DHS24, DN24, DFFS22, DHM23, DSS24, DL20a, DL20b, DWW22, ER21, EH22, FA20, FL21, FLH23, FA22, FGP21, FDvW21, FMR22, FHN23, GANT20, GM22, GMP22, GO20, HZ20, HW21, HX20, HN21, HS20, HQY21, JKVY23, JLY21, JLWZ22, JSZ23, JLL21, KVM22, LL22a, LR20, Led21, Li20, LWX20, LY20, LUZ20, Li21, LAZ22, LLMR23, LX23, LWX24, lLLL23, LL22b, LLS21, LMN23, LWXZ22, MZZ22, MU22, MRV23, Pap22, PCQL21, QS21, QW23, RS21a, SC23a, SSX23, Sto20, WW20, WK23, WYZ20a, WLF23]. **Method** [WM23, YZ20, YLZ22, ZW22, Zha23b, ZCPZ21, ZQ23, ZL21]. **Method-of-Lines** [LMN23]. **Methods** [AM22, AY20, AB20, AH21, Avi23, BGNS20, BCY21, BCF22, BCKS21, BCF23, BM22, BKSS24, BGHY22, BFS23, BS22, BPV20, BGG23, CDG23, CH22a, CWW24, CM21, CL20, CHJS21, CMZ21, CHW24, DNT22, DE22, DS20, DGYZ22, ER20, EPRX20, FLM21, FR21, FdRS24, Geo21, GPHHA20, GGHS22, GB20, GLW22, HLS23, Hal21, HG22, HJHUT20, JLZ24, KD21, KK20, KR23d, LET20, LZM+20, LWZ20, LM22b, LlL22, LZ23, LWC23, LJL+21, LS24, LRK22, LMN23, MCL20, MSD22, Mu20, MvdZ20, NRY22, NR21, OSV23, PR22, Par20, PS21, QW20, QZ20, RK20, Sch23, SZ20, SST+20, SWW22, WL23, WX20, WB21, XSZ20, XZ22, YDS21, AK20a]. **Metric** [CAGD22]. **MHD** [LS22, WJS23]. **Mindlin** [FHN23, GS21]. **Minimal** [BPV20]. **Minimization** [CT21, GKMR22, MS20, MvdZ20, MRV23, TWZZ23]. **Minimizations** [CFV23]. **Minimizing** [BCJQ24]. **Minimum** [TWZZ23]. **Minimum-Surface** [TWZZ23]. **MINRES** [FHK22]. **Miscible** [Sun21]. **Mittag** [KLS20]. **Mittag-Leffler** [KLS20]. **Mixed** [AP21a, AP21b, AP22, AKNY20, ACZ24, BGHY22, BFS23, CM21, CFV20, CHH23, ER20, FA20, GS23, GKN21, GLS20, JKVY23, KYB23, KLMZ21, MvdZ20, MRV23, SSZ23, Sun21, WB21, ZQ23]. **Mixed-Dimensional** [KLMZ21]. **mKdV** [NWZ22]. **Mobility** [CWW24]. **Model** [BNY23, BCT21, BG20, CHH23, CDD+20, DIL+20, DHS24, FA20, FK22, GV20, GGC23, HD24, JLY21, LZ23, NRY22, Pra20, RS21a, SSZ23, ZSH20, ZRZ23, vWR23]. **Modeling** [ALOS23, GHM21, MG23]. **Models** [AFB+21, BG20, DXY22, GHM21, KS20, Lab20, lLLL23, MU22, SC23b, WLPU21, XLZZ24]. **Modified** [ACW21, GSW21]. **Molecular** [FV23]. **Moment** [CLL24, PR22]. **Moment-Preserving** [CLL24]. **Moments** [KYB23]. **Monolithic** [FK22]. **Monotone** [BR20a, EG22, HW22, MvdZ20]. **Monte** [TS23, CG24, FA22, GKS23, GSM24, HAST22, HZW23, KVM22, LWY23, SSX23]. **Morley** [CN21, CKP23]. **Mortar** [BGHY22, JKVY23]. **Motion** [EG22, FLO20, LMSS20]. **Moving** [Guo21, SJ21, vWR23]. **mpEDMD** [Col23]. **Multidegree** [HHM+20]. **MultiDerivative** [GGHS22]. **MultiDimensional** [MK20]. **Multigrid** [ABBV23, LRK22]. **Multilevel** [GHM20, HAST22, HK20, MPV20]. **Multiple** [LWX24, SSX23]. **Multiplicity** [DE24]. **Multiplier** [BHL24, CS22b]. **Multipliers** [KLMZ21]. **Multipoint**

[AKNY20, BFS23, ER20]. **Multipole** [FDvW21, ZWC20]. **Multirate** [CH22a, CS22c]. **Multiscale** [CFV20, CAS23, DHM23, JKVY23, MS21, Mai21, QS21]. **Multistep** [DGYZ22, KD21]. **Multivariate** [LL22a, PU22].

Naghdi [KN20, NPT22]. **Narrow** [FL21]. **Narrow-stencil** [FL21]. **Natural** [WLF23]. **Navier** [CSWY23, LMR23, FLH23, GANT20, Han23, HS21, HS23, KR23a, KR23b, KR23c, KS20, LS20a, LMS22, PS22, SR20]. **Near** [WZ23]. **Nearly** [BHLZ24]. **Nédélec** [GGPS21]. **Neighborhoods** [DXY22]. **Nematic** [NRY22]. **Networks** [AN21, AY20, ABCS24, BNY23, CFF20, CLW21, CLS23, DMM24, FGK23, FMR22, HPBL21, MS23]. **Neumann** [Zha23b]. **Neural** [ABCS24, Avi23, DMM24, HPBL21, LLZZ22]. **Newton** [MU22, SC23a, TWZZ23]. **Nicolson** [AGS21, JLY21, SR20]. **Nodal** [BPW23]. **Noise** [BJ22, CHS21, KLS20, NSD22, ND22]. **Noisy** [DSY21, bLWZ21]. **Non** [AY20, CM21, GS23, LWZ20]. **Non-Lipschitz** [AY20]. **Non-self-adjoint** [CM21, LWZ20]. **Non-Uniform** [GS23]. **Nonautonomous** [RK20]. **Noncoercive** [AKM23]. **Nonconforming** [BDE23, CKP23, WHL21, ZW22]. **Nonconvex** [LWX20]. **Nondivergence** [QZ20, Spr24]. **Nondivergence-Form** [Spr24]. **Nonintrusive** [Ni21]. **Nonlinear** [AFB+21, AXSZ22, BCY21, BCF22, BW24, BM22, CCHHK20, CWW24, CCMP24, DRV21, DE20, EH22, FLM21, FR21, JLWZ22, KV22, LZM+20, LUZ20, LM22a, lLLL23, MvdZ20, RK20, Sch23, WL23, WS23, Zou23]. **Nonlinearities** [HK20]. **Nonlinearity** [BCF22, BW24, CGN24]. **Nonlocal** [BG20, DXY22, FR21, HD24, KVM22, KV22, LTTF21, LJL+21, YZDCNC23, ZDMZ20]. **NonMatching** [BGHY22]. **Nonmonotone** [GMP22]. **Nonoverlapping** [EH22, YDS21]. **Nonregular** [BDG23]. **Nonrelativistic** [BCY21, CS22a]. **NonReversible** [SZ21b]. **Nonseparable** [Ohs23]. **Nonsmooth** [BC20, BC22, LWX20, LM22a, DGL20, LM22b]. **Nonuniform** [QW23]. **Norm** [CMZ21, GPHHA20, HG22, PU22, QW23]. **Normal** [BBH22]. **Normalization** [WR21]. **Note** [PU22]. **Novel** [ACZ24, HS20, LZ23, MSD22]. **Number** [BGG23, JLWZ22, Lab20, NH20]. **Numbers** [ALOS23, HS20]. **Numerical** [AHW23, ABCS24, ADBP22, BMS24, Bar20, BCT21, CL21, CDCVV21, CLR23, CCMP24, DDO20, DK23, FGOS20, FGP21, FR21, GP22, GWY22, GK24, HY22, HN21, HD24, JLZ24, LL22a, LZM+20, LS22, LM22b, LYC23, MO21, OS24, Pap22, PS22, Rub20, SW23, WL23, WS23, ZRZ23, ZW20a, ZW20b, ZL21]. **Nystrom** [FA22].

Observable [FV23]. **Observation** [MST22, ZZZ22b]. **Obstacle** [HY22]. **ODEs** [AB24, CH22a]. **One** [DFFS22, GPHHA20]. **One-Equation** [DFFS22]. **One-Stage** [GPHHA20]. **Operator** [AKM23, CGR20, EW21, HJHUT20, KV22, LWWW22, MS23]. **Operators** [EG23, FP20, FH24, GNS20, GNÖ23, Kar21, LR20, LWZ20, LWX24, LRK22, WM23]. **Optimal** [AP21b, ACL20, AGS21, BW24, BPW23, BHYZ23, BDG23, CC23, CSWY23, CCW22, CN21, CM21, CP23, CLR23, CDD+20, CDW24, DH21, FLO20, GS23, GO21, HZ20, HG22, HJHUT20, KRS+21, LSTY21, LS24, MSD22, MU22, MST22, MG23, MSS20, Otá22, ST22, WS23, WSH20, XLZZ24, ZW20b]. **Optimal-Order** [MSS20, ZW20b]. **Optimality** [CSSS23, GFSZ20, KSG23, Otá22]. **Optimization** [CAGD22, GZ21, GLS23, HW21, LWY23,

LYC23, Pap22, Par20, SZ21a]. **Optimized** [BJMO22, DH21, DNT22]. **Options** [DLZ20]. **Order** [AF21, AB24, AXSZ22, ARSY20, AK20b, AH21, BL23, BKSS24, BG20, BDE21, BDE23, CH22a, CSZ24, CM21, CGN24, CHH23, CG24, CDW24, DIL+20, DRV21, DE22, DHM23, lDzSW22, DWW22, ER20, ER21, EW21, EG23, EG22, FR21, FdRS24, FHK22, GvR24, GS22, GAJN23, Gaw20, GNS20, Gla20, GGHS22, GMP22, HKYY21, Han23, HS21, HS23, KS20, KLS20, LET20, LUZ20, LWC23, lLTZ20, lLLL23, LJL+21, MZZ22, Mai21, MNO21, MG23, MSS20, Mus20, NSD22, OS24, Pra20, QZ20, SJ21, SC23b, SR20, Sun21, WK23, WYZ24, XSZ20, ZW22, Zha23a, ZW20a, ZW20b, ZDMZ20, ALW21, CT21, DE20, FLM21, Li21, WZ20]. **Oriented** [VL23]. **Orthogonal** [CS23, GO20, KRS+21, LS20b, NR21, Xia21]. **Orthogonalization** [CCW21]. **Oscillation** [LLS21]. **Oscillation-free** [LLS21]. **Oscillator** [CHJS21]. **Oscillatory** [AB24, WZ23]. **Oseen** [ABB+21, BGG23, KK20]. **Outer** [BBH22].

P [CCMP24]. **P-** [CCMP24]. **Parabolic** [BR20b, BW20, BJMO22, DRV21, GO21, GPHHA20, Guo21, HK20, JKVY23, JZ21a, KM20a, Kop20, LSTY21, LWZ20, LUZ20, LAZ22, LWC23, vWR23]. **Parameter** [BIP22, KR20]. **Parameter-Errors** [BIP22]. **Parametric** [BZ21, BJL23, GHM20, JSZ23, Li20, LLZZ22, Pra20]. **Parametrized** [BG20, RSS22]. **Parareal** [BW20, BJMO22, GW20]. **Part** [AP21a, AP21b, AP22, KR23a, KR23b, KR23c]. **Partial** [EEST22, GHM20, LL22a, MS23, OS24]. **Particle** [FGK23, HLS23, LWXZ22, WZ21]. **Particles** [JLL21]. **Parts** [EW21, GNÖ23, RN20]. **Patch** [LY20]. **PDE** [GO21, GZ21, HW21, LS20b, NT21b, vWR23]. **PDE-Constrained** [HW21, GZ21]. **PDEs** [BW20, CM21, CL20, FHK22, KLMZ21, LL22b, SST+20]. **Penalization** [CDP22]. **Penalty** [BC20, DN24]. **Penalty-Free** [DN24]. **Perfectly** [BK21, JLWZ22, Zha22, Zha23a]. **Perform** [SJ21]. **Peridynamics** [CCMP24]. **Perimeter** [JSZ23]. **Perimeter-Decreasing** [JSZ23]. **Periodic** [AB20, BLX20, HN21, HS21, KKS20, PS21, ST22, YHLR22, Zha22]. **Periodization** [BGNS20]. **Periodization-Based** [BGNS20]. **Perturbed** [CK20, KR23d]. **Petersson** [Pap22]. **Petrov** [BS22, CJZ22, FHN23, MvdZ20]. **Phase** [CGO20, CDCVV21, GKMR22, Kar21, MO21]. **Phase-Field** [Kar21]. **Phenomenon** [FM21]. **Physics** [DMM24]. **Picard** [HK20]. **Piecewise** [WHL21]. **Pitaevskii** [CLLZ24, HP20]. **Pixel** [BH21]. **Pixel-Driven** [BH21]. **Planar** [NT21b, SJ21]. **Planck** [BS22, LLZZ22, WW20]. **Plane** [DN23, IG21]. **Plate** [GS21]. **Plates** [FHN23]. **PML** [LZ23, WYZ20a, YHLR22]. **POD** [GAJN23, KS20, MU22, Rub20]. **POD-ROM** [Rub20]. **POD-ROMs** [GAJN23]. **Point** [BC22, BN23, EPRX20, GVMRBV23]. **Points** [AXSZ22, DH20, DNT22, OP24]. **Pointwise** [BLV20, DRS24, HW22, Han23, KRS+21, KR23d, KM20b, Sch23]. **Poisson** [BCF23, CMZ21, DDO20, GKN21, LY20, PSS22]. **Pollution** [ZRZ23]. **Polygonal** [CDG23, CKP23, GHM20]. **Polygons** [FMMS23]. **Polyhedra** [BLV20]. **Polyhedral** [CDG23]. **Polymer** [BNY23]. **Polynomial** [AP20, FLO20, GGPS21, NT21a, PS24]. **Polynomial-Degree-Robust** [GGPS21]. **Polynomials** [DH20, GO20]. **Polytopal** [YZ20]. **Population** [JZ21b]. **Poroelasticity** [BFS23, GVMRBV23]. **Porous** [DL20a, FA20, FM21, Sun21, ZSH20, ZRZ23].

Posed [GS22, GB20]. **Posedness** [FMR22, ZSH20]. **Positive** [CLL24, GPR20, IKM22, WJS23]. **Positivity** [FHW21, HLTW21, Kar21]. **Positivity-Preserving** [FHW21, HLTW21]. **Posteriori** [BW22, BBH22, CDG23, CGN24, CFV22, CFV23, CFV24, CGP20, DRV21, DMS21, Gal21, GGPS21, KK20, KR23d, KM20b, WL20, dVCN+23]. **Potential** [BCY21, BW24, ZZZ22b]. **Preconditioned** [LX23, LWX24]. **Preconditioner** [Hu21, Hu23, ST22, TWZZ23]. **Preconditioners** [AKM23]. **Preconditioning** [AP22, HJHUT20, MST22]. **Preintegration** [GKS23, LO23]. **Presence** [CRR24]. **Preservation** [Ohs23]. **Preserving** [BZ21, BPS22, CLL24, CWW24, CHJS21, CS22b, Col23, CDW24, DHS24, EHK24, EG23, FHW21, GV20, GGHS22, GPR20, HLTW21, IKM22, JSZ23, JZ21b, lLTZ20, LWXZ20, MQ23, PR22, SX20b, WL23, WB21]. **Pressure** [ABB+21, KR23c, KS20, LR20, SR20]. **Pressure-Robust** [ABB+21, LR20]. **Primal** [CWW24, WW20]. **Primal-Dual** [WW20]. **Principle** [lLTZ20, MQ23]. **Principles** [CHJS21]. **Priori** [CP23, FGP21, MS20]. **Probabilistic** [YZZ20, YZDCNC23]. **Probabilities** [HAST22, WLPU21]. **Problem** [BLY21, BLV20, BGJ22, BHYZ23, BDE23, CGO20, CK20, CFV23, CMZ21, CLLZ24, CGP20, CRR24, DH21, DN24, DMS21, DE22, DDO20, GKN21, HP20, HW21, KM20a, LR20, Pap22, SC23a, Spr24, WL20, WHL21, vWR23]. **Problems** [ALOS23, ACL20, AHW23, ACZ24, AJH23, BIP22, BC22, BJMO22, CC23, CT21, CGN24, CZZ22, CAS23, CLR23, CS22c, DH21, DFFS22, DRV21, DHM23, GW20, GGPS21, GPHHA20, GB20, GMP22, Guo21, Hal21, Hal22, HMO22, HL23, HY22, HT20, Hu23, HPBL21, JLM22, JZ21a, KVM22, LSTY21, LX23, MS21, Mai21, MU22, MST20, Mu20, MvdZ20, NH20, Pra20, RK20, SWW22, TWZZ23, WL23, WYZ20a, WX20, WLF23, Zha22, Zha23a, ZCPZ21]. **Procedure** [BPV20]. **Process** [PSS22]. **Processes** [BJ22, KYB23]. **Progressive** [ARSY20]. **Projection** [AGS21, Avi23, DST21, DRS24, NRY22, Rub20, Xia21]. **Projection-Based** [Rub20]. **Projection-Free** [NRY22]. **Proof** [EPRX20, HQY21]. **Propagation** [GW20, JK22]. **Proper** [KRS+21, LS20b, NR21]. **Properties** [GFSZ20, GGHS22, HHM+20]. **Property** [CSSS23, PCQL21, dVCN+23]. **Provably** [WJS23]. **Proximal** [BC20]. **Pseudo** [AH21]. **Pseudo-Mass** [AH21]. **Pseudoinverse** [EW21].

Quadratic [BIP22, CGN24, Ohs23]. **Quadratically** [EPRX20]. **Quadrature** [Gla20, GHM20, Huy22, KSG23, LM22a, SJ21, SC23b, WM23]. **Quantification** [DE24, KKS20]. **Quantum** [FV23]. **Quantum-Classical** [FV23]. **Quasi** [BPW23, GFSZ20, GKS23, GSM24, HZW23, IG21, KM20a, LYC23, ST22]. **Quasi-Graded** [KM20a]. **Quasi-Interpolation** [GFSZ20]. **Quasi-Linear** [LYC23]. **Quasi-Monte** [GKS23, GSM24, HZW23]. **Quasi-Optimal** [BPW23, ST22]. **Quasi-Trefftz** [IG21]. **Quasilinear** [DH22, GMP22]. **Quasilinearization** [WJS23]. **Quasiperiodic** [JLZ24]. **Quotients** [KRS+21].

Radial [Hal21, Hal22, HO24]. **Radiation** [GPR20]. **Radiative** [GP22, GV20, LWY23]. **Radon** [BH21]. **Random** [BLX20, CCW22, JLL21, KKS20, LWXZ20, PSS22, SX20a, SSZ23]. **Randomized** [HZW23]. **Rank** [BCKS21, CLS23, DEL21, EHK24, GLS23].

Rank-1 [GLS23]. **Rank-Adaptive** [CLS23]. **Rapidly** [MO21]. **Rare** [WLPU21]. **Rate** [AY20, BN23, BO20, BCT21, BDG23, EPRX20, HZW23, MS20, WS23]. **Rate-Independent** [MS20]. **Rates** [BR20a, CN21, CM21, CP23, GB20, KR23b, KR23c, LPW24, WSH20, Xia21]. **Rational** [BCKS21, HHT23, Pra20]. **Reaction** [AHW23, AY20, CK20, FGK23, HZ20, KR23d, LWWW22, MST22, Mus20]. **Real** [ZDMZ20]. **Reciprocal** [NT21b]. **Reciprocal-Log** [NT21b]. **Reconstructed** [LY20]. **Reconstruction** [BdBEO21, CFV23, LR20]. **Recovery** [KS20, PU22]. **Rectangular** [CJZ22]. **Rectifier** [AN21]. **Reduced** [AFB+21, CDD+20, DIL+20, KS20, MG23]. **Reduced-Order** [KS20, MG23]. **Reducing** [ALOS23]. **Reduction** [AHW23, BG20, Pra20]. **Regge** [Gaw20]. **Regime** [BCY21, CS22a]. **Regression** [BC20]. **Regular** [Hu21]. **Regularities** [Xia21]. **Regularity** [AM22, BW24, CS22a, HW22, HZ20, Kam21, LMS22, NWZ22, RS21b]. **Regularization** [CST20, GFSZ20, GB20, KR20, LSTY21, WSH20]. **Regularized** [CZZ22, FGK23, HL23]. **Reissner** [FHN23, GS21]. **Relativistic** [HLS23]. **Relaxation** [BJMO22, Zou23]. **Relaxed** [BDS23]. **Remap** [VL23]. **Renormalized** [GLW22]. **Reproducing** [LTTF21]. **Residual** [BM22, DMS21, MvdZ20, MRV23]. **Residual-Based** [DMS21]. **Resolution** [HHT23]. **Resonance** [Hal21, Hal22]. **Resonances** [ZL21]. **Response** [Ni21]. **Results** [CS23, Hu23, KV22]. **Retarded** [AB20]. **Revisitation** [EW21]. **Reynolds** [ALOS23, BGG23, Lab20]. **Ribbons** [Bar20]. **Ridge** [HO20]. **Rigorous** [HN21, PCQL21]. **Ritz** [DRS24]. **RKHS** [KN23]. **Robin** [DH21, EH22]. **Robust** [ABB+21, AFB+21, AKM23, CFV23, CHH23, FH24, GGPS21, KK20, LR20, MST22, MPV20, Mu20]. **ROM** [Rub20]. **ROMs** [GAJN23]. **Rotating** [ALW21, MO21]. **Rotation** [BFS23]. **Rotation-Based** [BFS23]. **Rough** [DK23, LLMR23, LWZ23]. **Rounding** [MK20]. **Rule** [BHLZ24, KSG23]. **Rules** [ACW21, Gla20, Huy22, KR20]. **Runge** [AXSZ22, BKSS24, GGHS22, OSV23, RK20, SZ20, SWW22, XSZ20].

Saddle [GVMRBV23, LZCZ22, ZZZ22a]. **Saddle-Point** [GVMRBV23]. **Sample** [ABCS24]. **Sample-Wise** [ABCS24]. **Sampling** [BGNS20, HZW23, PU22, SZ21b]. **Satisfying** [FdRS24]. **SAV** [FLM21, JLQ22, LS20a, LWS22]. **SAV-Exponential** [JLQ22]. **Scalar** [AXSZ22, CLR23, Hal21, Hal22, IG21, LZM+20, LLS21, PS20]. **Scale** [BM22, RSS22, WZ23]. **Scaling** [Hal21, Hal22]. **Scattered** [Gla20, LCS24]. **Scattering** [ACL20, BLX20, BLY21, WYZ20a, YHLR22, Zha22, Zha23a]. **Scheme** [AP22, ADBP22, BDS23, BJ22, BD23, CG20, CFF20, CSZ24, DN21, EG22, FV23, FK22, GV20, GWY22, GGC23, HKYY21, Han23, HS23, HLTW21, JZ21b, LS20a, lLTZ20, LWWW22, LMR23, MQ23, MT20, Met21, NSD22, WYZ24, YZZ20, YZDCNC23, YC21, Zou23]. **Schemes** [AF21, AFB+21, ACM24, AGS21, ABBV23, BR20a, BCT21, CSWY23, CCHHK20, CHS20, CS22b, CCMP24, CDW24, DGG20, DE20, lDzSW22, HS21, HD24, IKM22, JLQ22, LWS22, LWXZ20, MS20, PS22, SBL22, SZ21b, SX20b, WZ20, WZ21, WZZ22, WJS23, ZEG20]. **Schrödinger** [BMS24, BW24, FLM21, GM22, LAZ22, ST22, WYZ24, Zou23]. **Schur** [SC23a]. **Schwarz** [BJMO22, DH21, Par20, RS21a, YDS21]. **Science** [GP22]. **Scott** [NO21]. **Scrambled** [OP24]. **Screening** [RS21a]. **Screens** [HJHUT20]. **SDEs** [FdRS24, PSS22]. **Secant** [BM22]. **Second**

[AB24, ALW21, CH22a, CM21, lDzSW22, DWW22, ER20, ER21, EW21, EG22, FR21, FHK22, GNS20, HS23, LUZ20, LM22b, lLTZ20, lLLL23, MNO21, Mus20, OS24, QZ20, SR20, WK23, WYZ20b, ZDMZ20]. **Second-Order** [AB24, CH22a, CM21, lDzSW22, ER20, ER21, FR21, FHK22, HS23, LUZ20, lLTZ20, lLLL23, MNO21, Mus20, OS24, QZ20, ZDMZ20, ALW21]. **Segel** [SX20b]. **self** [CM21, LWZ20]. **Semi** [BR20b, CFF20, CS23, LMS22]. **Semi-implicit** [BR20b, LMS22]. **Semi-Infinite** [CS23]. **Semi-Lagrangian** [CFF20]. **Semicoercive** [dDFH23]. **Semiconductor** [DHS24]. **Semidiscrete** [BL23, Li21, QW20]. **Semiexplicit** [Ohs23]. **Semigroups** [Col22]. **Semilinear** [AHW23, BLM21, BW20, CH22a, CGN24, HK20, Kop20, KM20b, LLMR23, MU22, OSV23, Otá22, WZ20, YZDCNC23]. **Seminegative** [SWW22]. **Sequences** [MR21]. **Sequential** [ACM24, BM22, LY20]. **Serre** [ADM17, ADM21]. **Sets** [DL20b, Huy22]. **Setting** [DDO20, GK24]. **Shadowing** [Ni21]. **Shallow** [ALW21]. **Shape** [GZ21]. **Sharp** [BO20, HM22, Kam21]. **Sharper** [BV22]. **Shielding** [HY22]. **Shifted** [DWW22]. **Shigesada** [JZ21b]. **Shortening** [JSZ23, Li20, YC21]. **Sign** [CLR23]. **Sign-Changing** [CLR23]. **Signorini** [BFS20]. **Simplex** [WX20]. **Simplex-Averaged** [WX20]. **Simplicial** [AKNY20]. **Simplified** [MU22]. **Simulation** [Bar20]. **Simulations** [JLY21]. **Sinc** [WZZ22, ADS23]. **Sinc-** [WZZ22]. **sinc-Galerkin** [ADS23]. **Singular** [BHLZ24, BR20b, CGR20, DDO20, FHK22, SC23b, WM23]. **Singularities** [HHT23, HX20]. **Singularity** [BHLZ24]. **Singularly** [CK20, KR23d]. **Six** [ACYZ21]. **Six-Step** [ACYZ21]. **Size** [ACL20]. **Skeletal** [CZZ20]. **Slab** [ZL21]. **Slits** [ZL21]. **Slow** [DL20a]. **Smallest** [Kam21]. **Smooth** [AXSZ22]. **Smoothing** [BC20]. **Smoothness** [AN21, KSG23]. **Snapshots** [GAJN23, MU22]. **Sobolev** [CLLZ24, DST21, HP20]. **Solution** [CL21, FP20, GAJN23, HMO22, LL22a, LS20b, SW23]. **Solutions** [AXSZ22, AB20, CZZ22, DMM24, FL21, Kop20, LS22, LM22b, MSS20, SX20a, WS23]. **Solver** [MPV20, YHLR22]. **Solvers** [LRK22, NT21b]. **Solving** [BM22, Guo21, LZ23, MZZ22]. **Some** [SZ21a, WZ21]. **Sonic** [AXSZ22]. **Source** [CZZ22, SC23b]. **Sources** [DDO20, GKN21, ZWC20]. **Space** [BPS22, BHL21, BDE23, DRV21, GM22, GMMP24, GMSZ22, HKYY21, JKVY23, JLM22, LSTY21, Led21, LY20, LS24, WL23, ZW20a, ZW20b]. **Space-fractional** [ZW20b]. **Space-Time** [BPS22, BHL21, BDE23, DRV21, GM22, GMMP24, JKVY23, LSTY21, LS24, ZW20a]. **Spaces** [FH24, GNÖ23, Guo21, KN23, MvdZ20, WSH20]. **Sparse** [FP20, GO20, KVM22]. **Spatially** [FM21, HQY21]. **SPDEs** [BDG23]. **Species** [JLL21]. **Spectral** [AB24, ACZ24, BCF23, CLL24, DWW22, GB20, GO20, HZ20, HQY21, LAZ22, LLMR23, MSD22, MS21, PR22, SST$^+$20, Wan23, WR21, Xia21, YDS21, Zha23b, ZQ23]. **Spectral-Galerkin** [SST$^+$20]. **Spectrally** [EG23]. **Spectrum** [GNS20]. **Speeds** [LWXZ22]. **Sphere** [bLWZ21]. **Spline** [LL22a]. **Splines** [HHM$^+$20]. **Splitting** [BCY21, BCF22, CSSS23, FV23, FdRS24, HS23, LWWW22, LMR23, WZ21]. **Squares** [CCL23, DH20, GS22, HS20, LY20, QZ20, Sto20]. **Stability** [AP21a, BK21, CGO20, DST21, GGHS22, HM22, HQY21, HS21, HS23, IKM22, KV22, LWS22, LlL22, PCQL21, Pra20, QW23, RK20, Sch23, SBL22, SWW22, WL23, YZZ20, ZDMZ20, AK20a]. **Stability-enhanced** [PCQL21].

Stability-Preserving [WL23]. **Stabilization** [ABB+21, AHV22, BPV20, CHW24, LUZ20, dVCN+23]. **Stabilization-Free** [dVCN+23]. **Stabilized** [NR21, Rub20]. **Stabilizer** [YZ20]. **Stable** [AP20, BPW23, BS22, CSWY23, DWW22, EHK24, FHW21, Gla20, GWY22, HLTW21, LWC23, lLTZ20, LMN23, MQ23, PS24]. **Stage** [BKSS24, GPHHA20]. **Staggered** [MT20, PS22, ZCPZ21]. **State** [AHW23, CDD+20]. **Static** [DS20]. **Stationary** [GHLY23, OS24]. **Statistical** [GB20, JLM22]. **Steady** [AHW23, FLH23]. **Steady-State** [AHW23]. **Stefan** [CRR24, HLTW21]. **Stein** [JLM22]. **Stekloff** [GSW21]. **stencil** [FL21]. **Stencils** [GvR24]. **Step** [ACYZ21, BGG23, LlL22, lLLL23, QWL22]. **Stepping** [WZ20, WLF23]. **Steps** [lLTZ20]. **Stochastic** [ACM24, ABCS24, BW22, BLM21, BSWW22, BW20, BHL21, CHJS21, Che21, CZZ22, CHS21, EEST22, FGK23, FGP21, GFSZ20, HHL24, HPBL21, KYB23, KLS20, LWXZ20, SW23, WZZ22]. **Stokes** [AP21a, AP21b, AP22, BLV20, BDL20, CGO20, CSWY23, DN24, DGL20, FHW21, FLH23, GS22, GANT20, GMSZ22, GLS20, Han23, HZZ22, HS21, HS23, JLY21, KR23a, KR23b, KR23c, KS20, LR20, Led21, LS20a, LMS22, LMR23, PS22, SSZ23, SR20, Sto20, WHL21, ZCPZ21, dDFH23]. **Strain** [CHH23]. **Strang** [CSSS23]. **Stratification** [CG24]. **Stratified** [CC23, GP22]. **Stream** [Led21]. **Stress** [AKNY20, GVMRBV23, GLS20]. **Stress-Dependent** [GVMRBV23]. **Strong** [BLM21, BSWW22, CHS21, GGHS22, NSD22, SBL22, WZ21]. **Structure** [BLX20, BZ21, BKSS24, BPS22, CWW24, CS22b, FK22, JZ21b, lLLL23, LWXZ20]. **Structure-Preserving** [BZ21, JZ21b, LWXZ20]. **Structured** [CCW21, GLS23]. **Structures** [HN21]. **Study** [ZRZ23]. **Subdiffusion** [LM22a, LLMR23, QW23, SC23b, WZ20]. **Subject** [BDE21]. **Submanifolds** [SZ21b]. **Suboptimality** [KSG23]. **Subspace** [LX23, LO23]. **Subwavelength** [ZL21]. **Sum** [DH20, MK20]. **Sum-Up** [MK20]. **Summation** [EW21, GNÖ23, RN20]. **Summation-by-Parts** [EW21, GNÖ23, RN20]. **Sup** [Pra20, Gal21]. **Supercell** [BO20]. **Superconductivity** [GS23]. **Superconvergence** [CJZ22, CHSZ23]. **Superconvergent** [MRV23]. **Supercooled** [CRR24]. **Superlinear** [AKM23]. **Superposed** [ZSH20, ZRZ23]. **Supremizer** [KS20]. **Surface** [BZ21, BJL23, BDL20, CCL23, DN24, TWZZ23, YHLR22, Zha23a]. **Surfaces** [BL23, DN21, Li21, RSS22, WM23, Zha22]. **Swapping** [BHLZ24]. **Swept** [VL23]. **Symmetric** [CH22b, SC23a]. **Symmetrized** [BJL23, LWZ20]. **Symmetry** [GLS20]. **Symplectic** [CHJS21, Che21, Ohs23]. **System** [ADBP22, BCF23, CSWY23, CG20, GS22, HLM22, HLTW21, JZ21b, KR23a, KR23b, KR23c, KN20, LS22, LYC23, LWWW22, LMR23, MCL20, QWL22, QZ20, WZ23]. **Systems** [BM22, BPS22, BHL21, CHKL22, CSZ24, Col23, JLZ24, LUZ20, MK20, Ohs23, SZ20, SBL22].

Tangential [DN24]. **Taylor** [GS21]. **Tchebycheffian** [HHM+20]. **Technique** [ACYZ21]. **Temporal** [lDzSW22, GAJN23, KV22, MQ23]. **Tensor** [CLW21, CLS23, GWY22]. **Tensors** [CH22b]. **Teramoto** [JZ21b]. **Term** [SC23b]. **Terminal** [ZZZ22b]. **Test** [FH24]. **Tetrahedra** [AK20b, ER21]. **Their** [CZZ22, ZWC20, ACM24]. **Theorem** [VL23]. **Theorems** [SJ21]. **Theoretical** [XZ22]. **Theory** [LS20b]. **Thermodynamically** [BD23]. **Thin** [FM21]. **Those** [EPRX20]. **Three** [BLY21,

BPP20, HZZ22, Led21, QS21, Zha23a]. **Three-Dimensional** [QS21, Zha23a]. **Tikhonov** [CST20, KR20, WSH20]. **Time** [AM22, AH21, BCY21, BCF22, BK21, BSWW22, BPS22, BHL21, BGG23, BDE23, CCHHK20, CLW21, CLS23, CS22c, DRV21, lDzSW22, FV23, FM21, GANT20, GM22, GMMP24, GGC23, IKM22, JKVY23, Kar21, KS20, KRS+21, Kop20, LSTY21, LYC23, LS24, MZZ22, MNO21, Mus20, NPT22, QWL22, RN20, SBL22, WZ20, WS23, WYZ20a, WLF23, ZW20a, Geo21, LWZ20]. **Time-Dependent** [KS20]. **Time-Discrete** [AM22, NPT22]. **Time-Domain** [BK21, WYZ20a]. **Time-Fractional** [lDzSW22, Kar21, Kop20, WS23]. **Time-Graded** [Mus20]. **Time-Splitting** [BCY21, BCF22, FV23]. **Time-Stepping** [WLF23]. **Time-Varying** [MZZ22]. **Topology** [Pap22]. **Tori** [KOO23]. **Total** [BW22, BJ22, TWZZ23]. **Traces** [PS24]. **Traffic** [HD24]. **Training** [ABCS24, MR21]. **Transfer** [GP22, GV20]. **Transform** [BMS24]. **Transformed** [HN21, LWZ23]. **Transforms** [BH21]. **Transitions** [GKMR22]. **Translations** [ZWC20]. **Transmission** [ACZ24, CLR23, DNT22]. **Transparent** [JK22, KN20]. **Transport** [CCW22, CWW24, GPR20, LWY23, SJ21, XLZZ24]. **Trapezoidal** [ACW21, BHLZ24, KSG23, WM23]. **Tree** [CLW21, CLS23]. **Trees** [JK22]. **Trefftz** [GM22, IG21]. **Triangle** [GO20]. **Triangles** [AP20, AK20b, PS24]. **Triangular** [AH21]. **Trimmed** [BPV20]. **Truly** [GV20]. **Truncation** [GK24]. **TVD** [FR21]. **Two** [ADBP22, CGO20, CDCVV21, CCMP24, DGG20, FA20, GV20, Led21, LWX20, LZ23, LX23, LWX24, WZ23, XZ22, ZWC20, IG21]. **Two-Derivative** [DGG20]. **Two-Dimensional** [ADBP22, CCMP24, GV20, LWX20, ZWC20]. **Two-Grid** [XZ22]. **Two-Level** [LX23, LWX24, FA20]. **Two-Phase** [CGO20, CDCVV21]. **Two-Scale** [WZ23]. **Twofold** [GVMRBV23]. **Type** [BHL21, CH22a, DH22, GZ21, GMP22, JLQ22, KV22, NWZ22, QW23, WW20].

Unbalanced [XLZZ24]. **Unbounded** [SST+20]. **Uncertainty** [DE24, KKS20]. **Unconditionally** [CSWY23, FHW21, IKM22, SX20b]. **Unfitted** [CGO20, Guo21, LL22b, MZZ22]. **Unified** [BGNS20, DS20, ND22, WM23, YZZ20]. **Uniform** [AP21a, BCY21, BCF22, BO20, GS23, GANT20, PU22, Pra20, TWZZ23, WZ23, ZW20b]. **Uniformly** [CS22a, Mu20]. **Unifying** [MG23]. **Unique** [BDE21, BDE23]. **Universal** [GSM24]. **Unstabilized** [CT21]. **Unsteady** [FGOS20]. **Unstructured** [Mai21]. **Updates** [BCKS21]. **Upper** [Kop20, MNO21]. **Upper-Convected** [MNO21]. **Ups** [CRR24]. **Using** [ABB+21, ACW21, BBH22, GHLY23, GO20, HKYY21, KKS20, KD21, Kop20, LY20, LLMR23, SJ21, HL23, KM20a].

Valuation [DLZ20]. **Value** [AHW23, BHYZ23, CC23, CGR20, NH20]. **Value-Gradient** [BHYZ23]. **Variable** [lDzSW22, LlL22, lLTZ20, lLLL23, QWL22, ZW20a, ZW20b]. **Variable-Order** [lDzSW22, ZW20a, ZW20b]. **Variable-Step** [LlL22, lLLL23]. **Variables** [KKS20]. **Variance** [AY20]. **Variation** [BW22, BJ22, LM22b, TWZZ23]. **Variational** [AJH23, JLM22, LWWW22, WYZ20b, ZEG20, dDFH23]. **Varying** [MZZ22]. **Vector** [WL23]. **Velocity** [ADBP22, KR23b]. **VEM** [dVCN+23]. **Verlet** [BLM21]. **Version** [BV22]. **via** [BMS24, CAGD22, CDP22, DGYZ22, LO23, WJS23]. **Virtual** [ABBV23, BV22, BPP20, CKP23, CHW22, CHW24, DFFS22, GMMP24, HG22, WHL21].

Viscosity [FL21]. **Viscous** [ALW21]. **Vlasov** [BCF23, HHL24]. **Vogelius** [NO21]. **Volterra** [GO20]. **Volume** [BD23, CG20, CCHHK20, FMR22, JZ21b, MT20, YZDCNC23]. **Vorticity** [ABB+21]. **VP** [LLMR23]. **Vries** [CDP22].

W [GPHHA20]. **Waiting** [FM21]. **Walk** [SX20a]. **Wasserstein** [XLZZ24]. **Water** [ALW21]. **Wave** [BLM21, BLY21, BW24, BK21, DH22, lDzSW22, DWW22, GW20, HS20, JLWZ22, JK22, LAZ22, LS24, QS21, WK23, WB21, YHLR22, ZWC20, ZW22]. **Wave-Type** [DH22]. **Waveform** [BJMO22]. **Waveguides** [BK21, Zha23b]. **Wavenumber** [CAS23, HM22, MST20]. **Wavenumber-Explicit** [HM22]. **Waves** [BdBEO21, IG21, Sch23]. **Weak** [BCF22, BKSS24, BFS20, DMM24, DE22, MT20, Mu20, WW20, YZ20]. **Weakly** [GLS20]. **Weight** [Gla20]. **Weighted** [DDO20]. **Weights** [BBH22, JLL21]. **Well** [FMR22, GS22, ZSH20]. **Well-Posed** [GS22]. **Well-Posedness** [FMR22, ZSH20]. **WENO** [ARSY20, HKYY21]. **WENO-2** [ARSY20]. **Wiener** [KYB23, PSS22]. **Wigner** [SX20a]. **Wise** [ABCS24]. **within** [CST20]. **Without** [CHW24, AXSZ22, BCY21, Kam21]. **wPINNs** [DMM24].

Xu [Hu21, Hu23].

Ziolkowski [LZ23].

References

Ando:2020:CAC

[AB20] Alessia Andò and Dimitri Breda. Convergence analysis of collocation methods for computing periodic solutions of retarded functional differential equations. *SIAM Journal on Numerical Analysis*, 58(5): 3010–3039, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Agocs:2024:ASM

[AB24] Fruzsina J. Agocs and Alex H. Barnett. An adaptive spectral method for oscillatory second-order linear ODEs with frequency-independent cost. *SIAM Journal on Numerical Analysis*, 62(1):295–321, January 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Ahmed:2021:PRD

[ABB+21] Naveed Ahmed, Gabriel R. Barrenechea, Erik Burman, Johnny Guzmán, Alexander Linke, and Christian Merdon. A pressure-robust discretization of Oseen's equation using stabilization in the vorticity equation. *SIAM Journal on Numerical Analysis*, 59(5): 2746–2774, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Antonietti:2023:ABG

[ABBV23] Paola F. Antonietti, Stefano Berrone, Martina Busetto, and Marco Verani. Agglomeration-based geometric multigrid schemes for the virtual element method. *SIAM Journal on Numerical Analysis*, 61(1):223–249, ???? 2023.

CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1466864`.

Archibald:2024:NAC

[ABCS24] Richard Archibald, Feng Bao, Yanzhao Cao, and Hui Sun. Numerical analysis for convergence of a sample-wise back-propagation method for training stochastic neural networks. *SIAM Journal on Numerical Analysis*, 62(2):593–621, March 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Ammari:2020:OMS

[ACL20] Habib Ammari, Yat Tin Chow, and Keji Liu. Optimal mesh size for inverse medium scattering problems. *SIAM Journal on Numerical Analysis*, 58 (1):733–756, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Akyildiz:2024:SDS

[ACM24] Ö. Deniz Akyildiz, Dan Crisan, and Joaquin Miguez. Sequential discretization schemes for a class of stochastic differential equations and their application to Bayesian filtering. *SIAM Journal on Numerical Analysis*, 62(2):946–973, April 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Azah:2021:CCE

[ACW21] Mohammad Al Azah and Simon N. Chandler-Wilde. Computation of the complex error function using modified trapezoidal rules. *SIAM Journal on Numerical Analysis*, 59(5): 2346–2367, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Akrivis:2021:ETS

[ACYZ21] Georgios Akrivis, Minghua Chen, Fan Yu, and Zhi Zhou. The energy technique for the six-step BDF method. *SIAM Journal on Numerical Analysis*, 59(5):2449–2472, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

An:2024:NMS

[ACZ24] Jing An, Waixiang Cao, and Zhimin Zhang. A novel mixed spectral method and error estimates for Maxwell transmission eigenvalue problems. *SIAM Journal on Numerical Analysis*, 62(3):1039–1066, May 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Aregba-Driollet:2022:DVN

[ADBP22] Denise Aregba-Driollet, Stéphane Brull, and Corentin Prigent. A discrete velocity numerical scheme for the two-dimensional bitemperature Euler system. *SIAM*

Journal on Numerical Analysis, 60(1):28–51, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1407185`.

Antonopoulos:2017:EEG

[ADM17] D. C. Antonopoulos, V. A. Dougalis, and D. E. Mitsotakis. Error estimates for Galerkin approximations of the Serre equations. *SIAM Journal on Numerical Analysis*, 55(2):841–868, ???? 2017. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). See corrigendum [ADM21].

Antonopoulos:2021:CEE

[ADM21] D. C. Antonopoulos, V. A. Dougalis, and D. E. Mitsotakis. Corrigendum: Error estimates for Galerkin approximations of the Serre equations. *SIAM Journal on Numerical Analysis*, 59(6):3098–3101, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). See [ADM17].

Antil:2023:ASG

[ADS23] Harbir Antil, Patrick W. Dondl, and Ludwig Striet. Analysis of a sinc-Galerkin method for the fractional Laplacian. *SIAM Journal on Numerical Analysis*, 61(6):2967–2993, December 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Abrahamsen:2021:IOL

[AF21] Dylan Abrahamsen and Bengt Fornberg. On the infinite order limit of Hermite-based finite difference schemes. *SIAM Journal on Numerical Analysis*, 59(4):1857–1874, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Ahmed:2021:RLD

[AFB+21] Elyes Ahmed, Alessio Fumagalli, Ana Budisa, Eirik Keilegavlen, Jan M. Nordbotten, and Florin A. Radu. Robust linear domain decomposition schemes for reduced nonlinear fracture flow models. *SIAM Journal on Numerical Analysis*, 59(1):583–612, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

An:2021:OEA

[AGS21] Rong An, Huadong Gao, and Weiwei Sun. Optimal error analysis of Euler and Crank–Nicolson projection finite difference schemes for Landau–Lifshitz equation. *SIAM Journal on Numerical Analysis*, 59(3):1639–1662, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Appleton:2021:HOL

[AH21] Jay Miles Appleton and Brian T. Helenbrook. A high-order lower-triangular pseudo-mass matrix for explicit time advancement of *hp* triangular finite element methods. *SIAM Journal on Numerical Analysis*, 59(3):1618–1638, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Armbruster:2022:SCL

[AHV22] Dieter Armbruster, Michael Herty, and Giuseppe Visconti. A stabilization of a continuous limit of the ensemble Kalman inversion. *SIAM Journal on Numerical Analysis*, 60(3):1494–1515, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1414000`.

Amrein:2023:NER

[AHW23] Mario Amrein, Pascal Heid, and Thomas P. Wihler. A numerical energy reduction approach for semilinear diffusion–reaction boundary value problems based on steady-state iterations. *SIAM Journal on Numerical Analysis*, 61(2):755–783, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1478586`.

Aylwin:2023:FED

[AJH23] Rubén Aylwin and Carlos Jerez-Hanckes. Finite-element domain approximation for Maxwell variational problems on curved domains. *SIAM Journal on Numerical Analysis*, 61(3):1139–1171, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1468772`.

Akrivis:2020:ASC

[AK20a] Georgios Akrivis and Emmanouil Katsoprinakis. An analogue to the A(ϑ)-stability concept for implicit-explicit BDF methods. *SIAM Journal on Numerical Analysis*, 58(6):3475–3503, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Apel:2020:BDM

[AK20b] Thomas Apel and Volker Kempf. Brezzi–Douglas–Marini interpolation of any order on anisotropic triangles and tetrahedra. *SIAM Journal on Numerical Analysis*, 58(3):1696–1718, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Axelsson:2023:RSK

[AKM23] Owe Axelsson, János Karátson, and Frédéric Magoulès. Robust superlinear Krylov con-

vergence for complex noncoercive compact-equivalent operator preconditioners. *SIAM Journal on Numerical Analysis*, 61(2):1057–1079, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1466955`.

Ambartsumyan:2020:MSM

[AKNY20] Ilona Ambartsumyan, Eldar Khattatov, Jan M. Nordbotten, and Ivan Yotov. A multipoint stress mixed finite element method for elasticity on simplicial grids. *SIAM Journal on Numerical Analysis*, 58 (1):630–656, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Aggul:2023:FFI

[ALOS23] Mustafa Aggul, Alexander E. Labovsky, Eda Onal, and Kyle J. Schwiebert. Fluid-fluid interaction problems at high Reynolds numbers: Reducing the modeling error with LES-C. *SIAM Journal on Numerical Analysis*, 61(2):707–732, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1494269`.

Akrivis:2021:CSO

[ALW21] Georgios Akrivis, Buyang Li, and Jilu Wang. Convergence of a second-order energy-decaying method for the viscous rotating shallow water equation. *SIAM Journal on Numerical Analysis*, 59(1): 265–288, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Akrivis:2022:MRE

[AM22] Georgios Akrivis and Charalambos Makridakis. On maximal regularity estimates for discontinuous Galerkin time-discrete methods. *SIAM Journal on Numerical Analysis*, 60(1):180–194, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/20M1383781`.

Ali:2021:ASC

[AN21] Mazen Ali and Anthony Nouy. Approximation of smoothness classes by deep rectifier networks. *SIAM Journal on Numerical Analysis*, 59(6):3032–3051, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Ainsworth:2020:SPL

[AP20] Mark Ainsworth and Charles Parker. H^2-stable polynomial liftings on triangles. *SIAM Journal on Numerical Analysis*, 58(3):1867–1892, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Ainsworth:2021:MCMa

[AP21a] Mark Ainsworth and Charles Parker. Mass conserving mixed *hp*-FEM approximations to Stokes flow. Part I: Uniform stability. *SIAM Journal on Numerical Analysis*, 59 (3):1218–1244, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Ainsworth:2021:MCMb

[AP21b] Mark Ainsworth and Charles Parker. Mass conserving mixed *hp*-FEM approximations to Stokes flow. Part II: Optimal convergence. *SIAM Journal on Numerical Analysis*, 59(3):1245–1272, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Ainsworth:2022:MCM

[AP22] Mark Ainsworth and Charles Parker. A mass conserving mixed hp-FEM scheme for Stokes flow. Part III: Implementation and preconditioning. *SIAM Journal on Numerical Analysis*, 60(3):1574–1606, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1433927`.

Amat:2020:NWA

[ARSY20] Sergio P. Amat, Juan Ruiz, Chi-Wang Shu, and Dionisio F. Yáñez. A new WENO-2r algorithm with progressive order of accuracy close to discontinuities. *SIAM Journal on Numerical Analysis*, 58(6): 3448–3474, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Avitabile:2023:PMN

[Avi23] Daniele Avitabile. Projection methods for neural field equations. *SIAM Journal on Numerical Analysis*, 61 (2):562–591, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1463768`.

Arnold:2020:HHJ

[AW20] Douglas N. Arnold and Shawn W. Walker. The Hellan–Herrmann–Johnson method with curved elements. *SIAM Journal on Numerical Analysis*, 58(5): 2829–2855, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Ai:2022:EES

[AXSZ22] Jingqi Ai, Yuan Xu, Chi-Wang Shu, and Qiang Zhang. L^2 error estimate to smooth solutions of high order Runge–Kutta discontinuous Galerkin method for scalar nonlinear conservation laws with and without sonic points. *SIAM Journal on Numerical Analysis*, 60(4):1741–1773, ???? 2022. CODEN SJNAAM.

ISSN 0036-1429 (print), 1095-7170 (electronic). URL https://epubs.siam.org/doi/10.1137/21M1435495.

Anderson:2020:VFD

[AY20] David F. Anderson and Chaojie Yuan. Variance of finite difference methods for reaction networks with non-Lipschitz rate functions. *SIAM Journal on Numerical Analysis*, 58(6): 3125–3143, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Bartels:2020:NSI

[Bar20] Sören Bartels. Numerical simulation of inextensible elastic ribbons. *SIAM Journal on Numerical Analysis*, 58(6):3332–3354, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Bertoluzza:2022:PEE

[BBH22] Silvia Bertoluzza, Erik Burman, and Cuiyu He. An a posteriori error estimate of the outer normal derivative using dual weights. *SIAM Journal on Numerical Analysis*, 60(1):475–501, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL https://epubs.siam.org/doi/10.1137/20M1358219.

Bian:2020:SPG

[BC20] Wei Bian and Xiaojun Chen. A smoothing proximal gradient algorithm for nonsmooth convex regression with cardinality penalty. *SIAM Journal on Numerical Analysis*, 58 (1):858–883, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Bian:2022:AAN

[BC22] Wei Bian and Xiaojun Chen. Anderson acceleration for nonsmooth fixed point problems. *SIAM Journal on Numerical Analysis*, 60(5):2565–2591, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL https://epubs.siam.org/doi/10.1137/22M1475983.

Bao:2022:IUE

[BCF22] Weizhu Bao, Yongyong Cai, and Yue Feng. Improved uniform error bounds on time-splitting methods for long-time dynamics of the nonlinear Klein–Gordon equation with weak nonlinearity. *SIAM Journal on Numerical Analysis*, 60(4):1962–1984, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL https://epubs.siam.org/doi/10.1137/21M1449774.

Bessemoulin-Chatard:2023:CDG

[BCF23] Marianne Bessemoulin-Chatard and Francis Filbet. On the convergence of discontinuous Galerkin/Hermite spectral methods for the Vlasov–Poisson system. *SIAM Journal on Numerical Analysis*,

61(4):1664–1688, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1518232`.

Bao:2024:CAB

[BCJQ24] Chenglong Bao, Chang Chen, Kai Jiang, and Lingyun Qiu. Convergence analysis for Bregman iterations in minimizing a class of Landau free energy functionals. *SIAM Journal on Numerical Analysis*, 62(1):476–499, February 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Beckermann:2021:LRU

[BCKS21] Bernhard Beckermann, Alice Cortinovis, Daniel Kressner, and Marcel Schweitzer. Low-rank updates of matrix functions II: Rational Krylov methods. *SIAM Journal on Numerical Analysis*, 59(3):1325–1347, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Briani:2021:CRM

[BCT21] Maya Briani, Lucia Caramellino, and Giulia Terenzi. Convergence rate of Markov chains and hybrid numerical schemes to jump-diffusion with application to the Bates model. *SIAM Journal on Numerical Analysis*, 59(1):477–502, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Bao:2021:UEB

[BCY21] Weizhu Bao, Yongyong Cai, and Jia Yin. Uniform error bounds of time-splitting methods for the nonlinear Dirac equation in the nonrelativistic regime without magnetic potential. *SIAM Journal on Numerical Analysis*, 59(2):1040–1066, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Busto:2023:NTC

[BD23] Saray Busto and Michael Dumbser. A new thermodynamically compatible finite volume scheme for magnetohydrodynamics. *SIAM Journal on Numerical Analysis*, 61(1):343–364, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/22M147815X`.

Baudouin:2021:CBR

[BdBEO21] Lucie Baudouin, Maya de Buhan, Sylvain Ervedoza, and Axel Osses. Carleman-based reconstruction algorithm for waves. *SIAM Journal on Numerical Analysis*, 59(2):998–1039, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Burman:2021:HHO

[BDE21] Erik Burman, Guillaume Delay, and Alexandre Ern. A hybridized high-order method for unique continuation subject to the Helmholtz equation. *SIAM Journal on Numerical Analysis*, 59(5):2368–2392, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Burman:2023:UCP

[BDE23] Erik Burman, Guillaume Delay, and Alexandre Ern. The unique continuation problem for the heat equation discretized with a high-order space-time nonconforming method. *SIAM Journal on Numerical Analysis*, 61(5): 2534–2557, October 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Butkovsky:2023:ORC

[BDG23] Oleg Butkovsky, Konstantinos Dareiotis, and Máté Gerencsér. Optimal rate of convergence for approximations of SPDEs with nonregular drift. *SIAM Journal on Numerical Analysis*, 61(2):1103–1137, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1454213`.

Bonito:2020:DCF

[BDL20] Andrea Bonito, Alan Demlow, and Martin Licht. A divergence-conforming finite element method for the surface Stokes equation. *SIAM Journal on Numerical Analysis*, 58 (5):2764–2798, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Balci:2023:RAS

[BDS23] Anna Kh. Balci, Lars Diening, and Johannes Storn. Relaxed kačanov scheme for the p-Laplacian with large exponent. *SIAM Journal on Numerical Analysis*, 61(6):2775–2794, November 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Burman:2020:WIS

[BFS20] Erik Burman, Stefan Frei, and Matthew W. Scroggs. Weak imposition of Signorini boundary conditions on the boundary element method. *SIAM Journal on Numerical Analysis*, 58(4):2334–2350, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Boon:2023:MMF

[BFS23] Wietse M. Boon, Alessio Fumagalli, and Anna Scotti. Mixed and multipoint finite element methods for rotation-based poroelasticity. *SIAM*

Journal on Numerical Analysis, 61(5):2485–2508, October 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Burkovska:2020:AAP

[BG20] Olena Burkovska and Max Gunzburger. Affine approximation of parametrized kernels and model order reduction for nonlocal and fractional Laplace models. *SIAM Journal on Numerical Analysis*, 58 (3):1469–1494, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Burman:2023:IET

[BGG23] Erik Burman, Deepika Garg, and Johnny Guzman. Implicit–explicit time discretization for Oseen's equation at high Reynolds number with application to fractional step methods. *SIAM Journal on Numerical Analysis*, 61(6):2859–2886, November 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Boon:2022:FMM

[BGHY22] Wietse M. Boon, Dennis Gläser, Rainer Helmig, and Ivan Yotov. Flux-mortar mixed finite element methods on NonMatching grids. *SIAM Journal on Numerical Analysis*, 60(3):1193–1225, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/20M1361407`.

BenBelgacem:2022:FDC

[BGJ22] Faker Ben Belgacem, Vivette Girault, and Faten Jelassi. Full discretization of Cauchy's problem by Lavrentiev–Finite element method. *SIAM Journal on Numerical Analysis*, 60(2):558–584, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1401310`.

Bachmayr:2020:UAP

[BGNS20] Markus Bachmayr, Ivan G. Graham, Van Kien Nguyen, and Robert Scheichl. Unified analysis of periodization-based sampling methods for Matérn covariances. *SIAM Journal on Numerical Analysis*, 58(5): 2953–2980, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Bredies:2021:CAP

[BH21] Kristian Bredies and Richard Huber. Convergence analysis of pixel-driven Radon and fan-beam transforms. *SIAM Journal on Numerical Analysis*, 59 (3):1399–1432, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Breit:2021:STA

[BHL21] Dominic Breit, Martina Hofmanová, and Sébastien Loisel. Space-time approximation of stochastic p-Laplace-type systems. *SIAM Journal on Numerical Analysis*, 59(4):2218–2236, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Burman:2024:CFE

[BHL24] Erik Burman, Peter Hansbo, and Mats Larson. Cut finite element method for divergence-free approximation of incompressible flow: a Lagrange multiplier approach. *SIAM Journal on Numerical Analysis*, 62(2):893–918, April 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Bao:2024:SSM

[BHLZ24] Gang Bao, Wenmao Hua, Jun Lai, and Jinrui Zhang. Singularity swapping method for nearly singular integrals based on trapezoidal rule. *SIAM Journal on Numerical Analysis*, 62(2):974–997, April 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Bensoussan:2023:VGB

[BHYZ23] Alain Bensoussan, Jiayue Han, Sheung Chi Phillip Yam, and Xiang Zhou. Value-gradient based formulation of optimal control problem and machine learning algorithm. *SIAM Journal on Numerical Analysis*, 61(2):973–994, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1442838`.

Becker:2022:AFP

[BIP22] Roland Becker, Michael Innerberger, and Dirk Praetorius. Adaptive FEM for parameter-errors in elliptic linear–quadratic parameter estimation problems. *SIAM Journal on Numerical Analysis*, 60(3):1450–1471, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1458077`.

Bencheikh:2022:CTV

[BJ22] Oumaima Bencheikh and Benjamin Jourdain. Convergence in total variation of the Euler–Maruyama scheme applied to diffusion processes with measurable drift coefficient and additive noise. *SIAM Journal on Numerical Analysis*, 60(4):1701–1740, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/20M1371774`.

Bao:2023:SPF

[BJL23] Weizhu Bao, Wei Jiang, and Yifei Li. A symmetrized parametric finite element method

for anisotropic surface diffusion of closed curves. *SIAM Journal on Numerical Analysis*, 61(2):617–641, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1472851`.

Bui:2022:CPO

[BJMO22] Duc Quang Bui, Caroline Japhet, Yvon Maday, and Pascal Omnes. Coupling parareal with optimized Schwarz waveform relaxation for parabolic problems. *SIAM Journal on Numerical Analysis*, 60 (3):913–939, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1419428`.

Becache:2021:SCA

[BK21] Eliane Bécache and Maryna Kachanovska. Stability and convergence analysis of time-domain perfectly matched layers for the wave equation in waveguides. *SIAM Journal on Numerical Analysis*, 59(4): 2004–2039, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Biswas:2024:ASW

[BKSS24] Abhijit Biswas, David Ketcheson, Benjamin Seibold, and David Shirokoff. Algebraic structure of the weak stage order conditions for Runge–Kutta methods. *SIAM Journal on Numerical Analysis*, 62 (1):48–72, January 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Bai:2023:ECD

[BL23] Genming Bai and Buyang Li. Erratum: Convergence of Dziuk's semidiscrete finite element method for mean curvature flow of closed surfaces with high-order finite elements. *SIAM Journal on Numerical Analysis*, 61 (3):1609–1612, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1521791`.

Banjai:2021:SCV

[BLM21] Lehel Banjai, Gabriel Lord, and Jeta Molla. Strong convergence of a Verlet integrator for the semilinear stochastic wave equation. *SIAM Journal on Numerical Analysis*, 59 (4):1976–2003, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Borthagaray:2021:LEE

[BLN21] Juan Pablo Borthagaray, Dmitriy Leykekhman, and Ricardo H. Nochetto. Local energy estimates for the fractional Laplacian. *SIAM Journal on Numerical Analysis*, 59

(4):1918–1947, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Behringer:2020:GLP

[BLV20] Niklas Behringer, Dmitriy Leykekhman, and Boris Vexler. Global and local pointwise error estimates for finite element approximations to the Stokes problem on convex polyhedra. *SIAM Journal on Numerical Analysis*, 58(3):1531–1555, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Lin:2021:DFH

[bLWZ21] Shao bo Lin, Yu Guang Wang, and Ding-Xuan Zhou. Distributed filtered hyperinterpolation for noisy data on the sphere. *SIAM Journal on Numerical Analysis*, 59(2):634–659, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Bao:2020:ISR

[BLX20] Gang Bao, Yiwen Lin, and Xiang Xu. Inverse scattering by a random periodic structure. *SIAM Journal on Numerical Analysis*, 58(5):2934–2952, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Bao:2021:AFE

[BLY21] Gang Bao, Peijun Li, and Xiaokai Yuan. An adaptive finite element DtN method for the elastic wave scattering problem in three dimensions. *SIAM Journal on Numerical Analysis*, 59(6):2900–2925, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Birgin:2022:SAS

[BM22] Ernesto G. Birgin and J. M. MartÍnez. Secant acceleration of sequential residual methods for solving large-scale nonlinear systems of equations. *SIAM Journal on Numerical Analysis*, 60(6):3145–3180, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/20M1388024`.

Banica:2024:NIS

[BMS24] Valeria Banica, Georg Maierhofer, and Katharina Schratz. Numerical integration of Schrödinger maps via the Hasimoto transform. *SIAM Journal on Numerical Analysis*, 62(1):322–352, January 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Bo:2023:FKS

[BN23] Radu Ioan Bo and Dang-Khoa Nguyen. Fast Krasnosel'skiĭ–Mann algorithm with a convergence rate of the fixed point iteration of $o\left(\frac{1}{k}\right)$. *SIAM Journal on Numerical Analysis*, 61(6):2813–2843, November 2023. CODEN SJNAAM.

ISSN 0036-1429 (print), 1095-7170 (electronic).

Bouck:2023:CFM

[BNY23] Lucas Bouck, Ricardo H. Nochetto, and Shuo Yang. Convergent FEM for a membrane model of liquid crystal polymer networks. *SIAM Journal on Numerical Analysis*, 61(6): 2887–2916, November 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Braun:2020:SUC

[BO20] Julian Braun and Christoph Ortner. Sharp uniform convergence rate of the supercell approximation of a crystalline defect. *SIAM Journal on Numerical Analysis*, 58(1):279–297, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Borm:2022:II

[Bör22] Steffen Börm. On iterated interpolation. *SIAM Journal on Numerical Analysis*, 60(6):3124–3144, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1510649`.

Bertoluzza:2020:FDT

[BPP20] Silvia Bertoluzza, Micol Pennacchio, and Daniele Prada. FETI-DP for the three dimensional virtual element method. *SIAM Journal on Numerical Analysis*, 58(3):1556–1591, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Braukhoff:2022:ESP

[BPS22] Marcel Braukhoff, Ilaria Perugia, and Paul Stocker. An entropy structure preserving space-time formulation for cross-diffusion systems: Analysis and Galerkin discretization. *SIAM Journal on Numerical Analysis*, 60(1):364–395, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/20M1360086`.

Buffa:2020:MSP

[BPV20] A. Buffa, R. Puppi, and R. Vázquez. A minimal stabilization procedure for isogeometric methods on trimmed geometries. *SIAM Journal on Numerical Analysis*, 58(5): 2711–2735, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Bartels:2023:QOE

[BPW23] Sören Bartels, Christian Palus, and Zhangxian Wang. Quasi-optimal error estimates for the finite element approximation of stable harmonic maps with nodal constraints. *SIAM Journal on Numerical Analysis*, 61(4):1819–1834, ???? 2023.

CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL https://epubs.siam.org/doi/10.1137/22M1524497.

Badwaik:2020:CRM

[BR20a] Jayesh Badwaik and Adrian M. Ruf. Convergence rates of monotone schemes for conservation laws with discontinuous flux. *SIAM Journal on Numerical Analysis*, 58(1):607–629, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Bartels:2020:CFD

[BR20b] Sören Bartels and Michael Ruzicka. Convergence of fully discrete implicit and semi-implicit approximations of singular parabolic equations. *SIAM Journal on Numerical Analysis*, 58(1):811–833, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Brunken:2022:SEP

[BS22] Julia Brunken and Kathrin Smetana. Stable and efficient Petrov–Galerkin methods for a kinetic Fokker–Planck equation. *SIAM Journal on Numerical Analysis*, 60(1):157–179, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL https://epubs.siam.org/doi/10.1137/20M1374857.

Blomker:2022:CTL

[BSWW22] Dirk Blömker, Claudia Schillings, Philipp Wacker, and Simon Weissmann. Continuous time limit of the stochastic ensemble Kalman inversion: Strong convergence analysis. *SIAM Journal on Numerical Analysis*, 60(6):3181–3215, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL https://epubs.siam.org/doi/10.1137/21M1437561.

BeiraodaVeiga:2022:SEE

[BV22] L. Beirão da Veiga and G. Vacca. Sharper error estimates for virtual elements and a bubble-enriched version. *SIAM Journal on Numerical Analysis*, 60(4):1853–1878, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL https://epubs.siam.org/doi/10.1137/21M1411275.

Brehier:2020:PAS

[BW20] Charles-Edouard Brehier and Xu Wang. On parareal algorithms for semilinear parabolic stochastic PDEs. *SIAM Journal on Numerical Analysis*, 58 (1):254–278, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Banas:2022:PES

[BW22] L'ubomír Banas and André Wilke. A posteriori estimates

for the stochastic total variation flow. *SIAM Journal on Numerical Analysis*, 60 (5):2657–2680, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1447982`.

Bao:2024:OEB

[BW24] Weizhu Bao and Chushan Wang. Optimal error bounds on the exponential wave integrator for the nonlinear Schrödinger equation with low regularity potential and nonlinearity. *SIAM Journal on Numerical Analysis*, 62(1):93–118, January 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Bao:2021:SPP

[BZ21] Weizhu Bao and Quan Zhao. A structure-preserving parametric finite element method for surface diffusion. *SIAM Journal on Numerical Analysis*, 59 (5):2775–2799, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Carson:2022:CAM

[CAGD22] Hugh A. Carson, Steven Allmaras, Marshall Galbraith, and David Darmofal. Convergence of anisotropic mesh adaptation via metric optimization. *SIAM Journal on Numerical Analysis*, 60 (3):1281–1306, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/20M1338721`.

Chupeng:2023:WEC

[CAS23] Ma Chupeng, Christian Alber, and Robert Scheichl. Wavenumber explicit convergence of a multiscale generalized finite element method for heterogeneous Helmholtz problems. *SIAM Journal on Numerical Analysis*, 61 (3):1546–1584, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1466748`.

Cacace:2023:AVF

[CC23] Simone Cacace and Fabio Camilli. Approximation of the value function for optimal control problems on stratified domains. *SIAM Journal on Numerical Analysis*, 61(3):1172–1194, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1509370`.

Cances:2020:LTB

[CCHHK20] Clément Cancès, Claire Chainais-Hillairet, Maxime Herda, and Stella Krell. Large time behavior of nonlinear finite volume schemes for convection–diffusion equations. *SIAM*

Journal on Numerical Analysis, 58(5):2544–2571, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Chen:2023:KBL

[CCL23] Meng Chen, Ka Chun Cheung, and Leevan Ling. A kernel-based least-squares collocation method for surface diffusion. *SIAM Journal on Numerical Analysis*, 61(3):1386–1404, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1444369`.

Coclite:2024:NFN

[CCMP24] Alessandro Coclite, Giuseppe M. Coclite, Francesco Maddalena, and Tiziano Politi. A numerical framework for nonlinear peridynamics on two-dimensional manifolds based on implicit P-(EC)^k schemes. *SIAM Journal on Numerical Analysis*, 62(2):622–645, March 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Chen:2021:AAS

[CCW21] Pengwen Chen, Chung-Kuan Cheng, and Xinyuan Wang. Arnoldi algorithms with structured orthogonalization. *SIAM Journal on Numerical Analysis*, 59(1):370–400, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Carrillo:2022:OMT

[CCW22] José A. Carrillo, Lin Chen, and Qi Wang. An optimal mass transport method for random genetic drift. *SIAM Journal on Numerical Analysis*, 60(3):940–969, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/20M1389431`.

Casado-Diaz:2021:NML

[CDCVV21] Juan Casado-Díaz, Carlos Conca, and Donato Vásquez-Varas. Numerical maximization of the p-Laplacian energy of a two-phase material. *SIAM Journal on Numerical Analysis*, 59(6):3077–3097, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Cohen:2020:ORM

[CDD+20] Albert Cohen, Wolfgang Dahmen, Ronald DeVore, Jalal Fadili, Olga Mula, and James Nichols. Optimal reduced model algorithms for data-based state estimation. *SIAM Journal on Numerical Analysis*, 58(6):3355–3381, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Cangiani:2023:PEE

[CDG23] Andrea Cangiani, Zhaonan Dong, and Emmanuil H. Georgoulis. A posteriori error

estimates for discontinuous Galerkin methods on polygonal and polyhedral meshes. *SIAM Journal on Numerical Analysis*, 61(5):2352–2380, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1516701`.

Chen:2022:NCD

[CDP22] Yanlai Chen, Bo Dong, and Rebecca Pereira. A new conservative discontinuous Galerkin method via implicit penalization for the generalized Korteweg–de Vries equation. *SIAM Journal on Numerical Analysis*, 60 (6):3078–3098, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1470827`.

Cui:2024:OCA

[CDW24] Shumo Cui, Shengrong Ding, and Kailiang Wu. On optimal cell average decomposition for high-order bound-preserving schemes of hyperbolic conservation laws. *SIAM Journal on Numerical Analysis*, 62(2):775–810, March 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Carlini:2020:SLS

[CFF20] E. Carlini, A. Festa, and N. Forcadel. A semi-Lagrangian scheme for Hamilton–Jacobi–Bellman equations on networks. *SIAM Journal on Numerical Analysis*, 58(6): 3165–3196, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Chaumont-Frelet:2020:MHM

[CFV20] Théophile Chaumont-Frelet and Frédéric Valentin. A multiscale hybrid-mixed method for the Helmholtz equation in heterogeneous domains. *SIAM Journal on Numerical Analysis*, 58(2):1029–1067, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Chaumont-Frelet:2022:FEP

[CFV22] Théophile Chaumont-Frelet and Patrick Vega. Frequency-explicit a posteriori error estimates for finite element discretizations of Maxwell's equations. *SIAM Journal on Numerical Analysis*, 60 (4):1774–1798, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1421805`.

Chaumont-Frelet:2023:REF

[CFV23] Théophile Chaumont-Frelet and Martin Vohralík. p-robust equilibrated flux reconstruction in $H(\mathrm{curl})$ based on local minimizations: Application to a posteriori analy-

sis of the curl–curl problem. *SIAM Journal on Numerical Analysis*, 61(4):1783–1818, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M141909X`.

Chaumont-Frelet:2024:FEP

[CFV24] Théophile Chaumont-Frelet and Patrick Vega. Frequency-explicit a posteriori error estimates for discontinuous Galerkin discretizations of Maxwell's equations. *SIAM Journal on Numerical Analysis*, 62(1):400–421, February 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Cances:2020:CED

[CG20] Clément Cancès and Benoît Gaudeul. A convergent entropy diminishing finite volume scheme for a cross-diffusion system. *SIAM Journal on Numerical Analysis*, 58 (5):2684–2710, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Chopin:2024:HOM

[CG24] Nicolas Chopin and Mathieu Gerber. Higher-order Monte Carlo through cubic stratification. *SIAM Journal on Numerical Analysis*, 62(1):229–247, January 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Carstensen:2024:PEC

[CGN24] Carsten Carstensen, Benedikt Gräßle, and Neela Nataraj. A posteriori error control for fourth-order semilinear problems with quadratic nonlinearity. *SIAM Journal on Numerical Analysis*, 62(2):919–945, April 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Caceres:2020:NSE

[CGO20] Ernesto Cáceres, Johnny Guzmán, and Maxim Olshanskii. New stability estimates for an unfitted finite element method for two-phase Stokes problem. *SIAM Journal on Numerical Analysis*, 58(4): 2165–2192, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Chrysafinos:2020:PEE

[CGP20] Konstantinos Chrysafinos, Emmanuil H. Georgoulis, and Dimitra Plaka. A posteriori error estimates for the Allen–Cahn problem. *SIAM Journal on Numerical Analysis*, 58(5): 2662–2683, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Crane:2020:ASV

[CGR20] Daniel K. Crane, Mark S. Gockenbach, and Matthew J. Roberts. Approximating the singular value expansion of

a compact operator. *SIAM Journal on Numerical Analysis*, 58(2):1295–1318, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Carle:2022:EAM

[CH22a] Constantin Carle and Marlis Hochbruck. Error analysis of multirate leapfrog-type methods for second-order semilinear ODEs. *SIAM Journal on Numerical Analysis*, 60 (5):2897–2924, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1427255`.

Chen:2022:FED

[CH22b] Long Chen and Xuehai Huang. Finite elements for div- and divdiv-conforming symmetric tensors in arbitrary dimension. *SIAM Journal on Numerical Analysis*, 60(4):1932–1961, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1433708`.

Chen:2021:SDG

[Che21] Chuchu Chen. A symplectic discontinuous Galerkin full discretization for stochastic Maxwell equations. *SIAM Journal on Numerical Analysis*, 59(4):2197–2217, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Chen:2023:RLO

[CHH23] Mingqing Chen, Jianguo Huang, and Xuehai Huang. A robust lower-order mixed finite element method for a strain gradient elastic model. *SIAM Journal on Numerical Analysis*, 61(5):2237–2260, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/22M151649X`.

Chen:2021:APL

[CHJS21] Chuchu Chen, Jialing Hong, Diancong Jin, and Liying Sun. Asymptotically-preserving large deviations principles by stochastic symplectic methods for a linear stochastic oscillator. *SIAM Journal on Numerical Analysis*, 59(1):32–59, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Cai:2022:EMD

[CHKL22] Zhenning Cai, Jingwei Hu, Yang Kuang, and Bo Lin. An entropic method for discrete systems with Gibbs entropy. *SIAM Journal on Numerical Analysis*, 60(4):2345–2371, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1429023`.

Carle:2020:LCS

[CHS20] Constantin Carle, Marlis

Hochbruck, and Andreas Sturm. On leapfrog-Chebyshev schemes. *SIAM Journal on Numerical Analysis*, 58(4): 2404–2433, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Cui:2021:SCF

[CHS21] Jianbo Cui, Jialin Hong, and Liying Sun. Strong convergence of full discretization for stochastic Cahn–Hilliard equation driven by additive noise. *SIAM Journal on Numerical Analysis*, 59(6):2866–2899, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Chen:2023:SHD

[CHSZ23] Gang Chen, Daozhi Han, John R. Singler, and Yangwen Zhang. On the superconvergence of a hybridizable discontinuous Galerkin method for the Cahn–Hilliard equation. *SIAM Journal on Numerical Analysis*, 61(1):83–109, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1437780`.

Chen:2022:CVE

[CHW22] Chunyu Chen, Xuehai Huang, and Huayi Wei. H^m-conforming virtual elements in arbitrary dimension. *SIAM Journal on Numerical Analysis*, 60(6):3099–3123, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1440323`.

Chen:2024:VEM

[CHW24] Chunyu Chen, Xuehai Huang, and Huayi Wei. Virtual element methods without extrinsic stabilization. *SIAM Journal on Numerical Analysis*, 62(1):567–591, February 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Cao:2022:CPG

[CJZ22] Waixiang Cao, Lueling Jia, and Zhimin Zhang. A C^1 conforming Petrov–Galerkin method for convection–diffusion equations and superconvergence analysis over rectangular meshes. *SIAM Journal on Numerical Analysis*, 60(1):274–311, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1391006`.

Cai:2020:DFE

[CK20] Zhiqiang Cai and JaEun Ku. A dual finite element method for a singularly perturbed reaction–diffusion problem. *SIAM Journal on Numerical Analysis*, 58(3):1654–1673, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Carstensen:2023:NVE

[CKP23] Carsten Carstensen, Rekha Khot, and Amiya K. Pani. Nonconforming virtual elements for the biharmonic equation with Morley degrees of freedom on polygonal meshes. *SIAM Journal on Numerical Analysis*, 61(5):2460–2484, October 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Chen:2020:EMC

[CL20] Meng Chen and Leevan Ling. Extrinsic meshless collocation methods for PDEs on manifolds. *SIAM Journal on Numerical Analysis*, 58(2):988–1007, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Carmona:2021:CAM

[CL21] René Carmona and Mathieu Laurière. Convergence analysis of machine learning algorithms for the numerical solution of mean field control and games I: The ergodic case. *SIAM Journal on Numerical Analysis*, 59 (3):1455–1485, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Cai:2024:PMP

[CLL24] Zhenning Cai, Bo Lin, and Meixia Lin. A positive and moment-preserving Fourier spectral method. *SIAM Journal on Numerical Analysis*, 62(1):273–294, January 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Chen:2024:CSG

[CLLZ24] Ziang Chen, Jianfeng Lu, Yulong Lu, and Xiangxiong Zhang. On the convergence of Sobolev gradient flow for the Gross–Pitaevskii eigenvalue problem. *SIAM Journal on Numerical Analysis*, 62 (2):667–691, March 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Ciarlet:2023:OCB

[CLR23] Patrick Ciarlet, Jr., David Lassounon, and Mahran Rihani. An optimal control-based numerical method for scalar transmission problems with sign-changing coefficients. *SIAM Journal on Numerical Analysis*, 61 (3):1316–1339, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1495998`.

Ceruti:2023:RAT

[CLS23] Gianluca Ceruti, Christian Lubich, and Dominik Sulz. Rank-adaptive time integration of tree tensor networks. *SIAM Journal on Numerical Analysis*, 61(1):194–222, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170

(electronic). URL `https://epubs.siam.org/doi/10.1137/22M1473790`.

Ceruti:2021:TIT

[CLW21] Gianluca Ceruti, Christian Lubich, and Hanna Walach. Time integration of tree tensor networks. *SIAM Journal on Numerical Analysis*, 59(1):289–313, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Carstensen:2021:AMFb

[CM21] Carsten Carstensen and Rui Ma. Adaptive mixed finite element methods for non-self-adjoint indefinite second-order elliptic PDEs with optimal rates. *SIAM Journal on Numerical Analysis*, 59(2):955–982, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Chen:2021:NEE

[CMZ21] Gang Chen, Peter B. Monk, and Yangwen Zhang. L^∞ norm error estimates for HDG methods applied to the Poisson equation with an application to the Dirichlet boundary control problem. *SIAM Journal on Numerical Analysis*, 59 (2):720–745, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Carstensen:2021:AMFa

[CN21] Carsten Carstensen and Neela Nataraj. Adaptive Morley FEM for the von Kármán equations with optimal convergence rates. *SIAM Journal on Numerical Analysis*, 59(2): 696–719, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Colbrook:2022:CSE

[Col22] Matthew J. Colbrook. Computing semigroups with error control. *SIAM Journal on Numerical Analysis*, 60(1):396–422, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1398616`.

Colbrook:2023:MAD

[Col23] Matthew J. Colbrook. The mpEDMD algorithm for data-driven computations of measure-preserving dynamical systems. *SIAM Journal on Numerical Analysis*, 61(3):1585–1608, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1521407`.

Carstensen:2023:DGL

[CP23] Carsten Carstensen and Sophie Puttkammer. Direct guaranteed lower eigenvalue bounds with optimal a priori convergence rates for the bi-Laplacian. *SIAM Journal on Numerical Analysis*, 61(2):812–836, ???? 2023.

CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL https://epubs.siam.org/doi/10.1137/21M139921X.

Cuchiero:2024:IFD

[CRR24] Christa Cuchiero, Christoph Reisinger, and Stefan Rigger. Implicit and fully discrete approximation of the supercooled Stefan problem in the presence of blow-ups. *SIAM Journal on Numerical Analysis*, 62(3): 1145–1170, May 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Calvo:2022:UAL

[CS22a] María Cabrera Calvo and Katharina Schratz. Uniformly accurate low regularity integrators for the Klein–Gordon equation from the classical to NonRelativistic limit regime. *SIAM Journal on Numerical Analysis*, 60(2):888–912, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL https://epubs.siam.org/doi/10.1137/21M1415030.

Cheng:2022:NLM

[CS22b] Qing Cheng and Jie Shen. A new Lagrange multiplier approach for constructing structure preserving schemes, II. Bound preserving. *SIAM Journal on Numerical Analysis*, 60(3):970–998, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL https://epubs.siam.org/doi/10.1137/21M144877X.

Connors:2022:MDG

[CS22c] Jeffrey M. Connors and Kenneth C. Sockwell. A multirate discontinuous-Galerkin-in-time framework for interface-coupled problems. *SIAM Journal on Numerical Analysis*, 60(5):2373–2404, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL https://epubs.siam.org/doi/10.1137/21M1461149.

Chen:2023:LOF

[CS23] Sheng Chen and Jie Shen. Log orthogonal functions in semi-infinite intervals: Approximation results and applications. *SIAM Journal on Numerical Analysis*, 61(1):110–134, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL https://epubs.siam.org/doi/10.1137/21M1466840.

Casas:2023:NOP

[CSSS23] Fernando Casas, Jesús María Sanz-Serna, and Luke Shaw. A new optimality property of Strang's splitting. *SIAM Journal on Numerical Analysis*, 61(3):1369–1385, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL https://epubs.siam.org/doi/10.1137/22M1528690.

Chada:2020:TRW

[CST20] Neil K. Chada, Andrew M. Stuart, and Xin T. Tong. Tikhonov regularization within ensemble Kalman inversion. *SIAM Journal on Numerical Analysis*, 58(2):1263–1294, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Cai:2023:OEE

[CSWY23] Wentao Cai, Weiwei Sun, Jilu Wang, and Zongze Yang. Optimal L^2 error estimates of unconditionally stable finite element schemes for the Cahn–Hilliard–Navier–Stokes system. *SIAM Journal on Numerical Analysis*, 61(3):1218–1245, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1486844`.

Carlini:2024:LGS

[CSZ24] Elisabetta Carlini, Francisco J. Silva, and Ahmad Zorkot. A Lagrange–Galerkin scheme for first order mean field game systems. *SIAM Journal on Numerical Analysis*, 62(1):167–198, January 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Carstensen:2021:UHH

[CT21] Carsten Carstensen and Tien Tran. Unstabilized hybrid high-order method for a class of degenerate convex minimization problems. *SIAM Journal on Numerical Analysis*, 59(3):1348–1373, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Carrillo:2024:SPP

[CWW24] José A. Carrillo, Li Wang, and Chaozhen Wei. Structure preserving primal dual methods for gradient flows with nonlinear mobility transport distances. *SIAM Journal on Numerical Analysis*, 62(1):376–399, February 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Carstensen:2020:SFE

[CZZ20] Carsten Carstensen, Qilong Zhai, and Ran Zhang. A skeletal finite element method can compute lower eigenvalue bounds. *SIAM Journal on Numerical Analysis*, 58(1):109–124, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Chen:2022:SCR

[CZZ22] Zhiming Chen, Wenlong Zhang, and Jun Zou. Stochastic convergence of regularized solutions and their finite element approximations to inverse source problems. *SIAM Journal on Numerical Analysis*, 60(2):751–780, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1409779`.

deDiego:2023:FEA

[dDFH23] Gonzalo G. de Diego, Patrick E. Farrell, and Ian J. Hewitt. On the finite element approximation of a semicoercive Stokes variational inequality arising in glaciology. *SIAM Journal on Numerical Analysis*, 61(1):1–25, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1437640`.

Drelichman:2020:WSN

[DDO20] Irene Drelichman, Ricardo G. Durán, and Ignacio Ojea. A weighted setting for the numerical approximation of the Poisson problem with singular sources. *SIAM Journal on Numerical Analysis*, 58(1): 590–606, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Droniou:2020:HOM

[DE20] Jerome Droniou and Robert Eymard. High-order mass-lumped schemes for nonlinear degenerate elliptic equations. *SIAM Journal on Numerical Analysis*, 58(1):153–188, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Dong:2022:HHO

[DE22] Zhaonan Dong and Alexandre Ern. Hybrid high-order and weak Galerkin methods for the biharmonic problem. *SIAM Journal on Numerical Analysis*, 60(5):2626–2656, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1408555`.

Dolz:2024:UQE

[DE24] Jürgen Dölz and David Ebert. On uncertainty quantification of eigenvalues and eigenspaces with higher multiplicity. *SIAM Journal on Numerical Analysis*, 62(1):422–451, February 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Ding:2021:DLR

[DEL21] Zhiyan Ding, Lukas Einkemmer, and Qin Li. Dynamical low-rank integrator for the linear Boltzmann equation: Error analysis in the diffusion limit. *SIAM Journal on Numerical Analysis*, 59(4):2254–2285, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Desiderio:2022:CCV

[DFFS22] Luca Desiderio, Silvia Falletta, Matteo Ferrari, and Letizia Scuderi. On the coupling of the curved virtual element method with the one-equation boundary element method for 2D exterior Helmholtz problems. *SIAM Journal on Numerical Analysis*, 60(4):2099–2124,

???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL https://epubs.siam.org/doi/10.1137/21M1460776.

Ditkowski:2020:TDE

[DGG20] Adi Ditkowski, Sigal Gottlieb, and Zachary J. Grant. Two-derivative error inhibiting schemes and enhanced error inhibiting schemes. *SIAM Journal on Numerical Analysis*, 58(6):3197–3225, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Duran:2020:AFE

[DGL20] Ricardo Durán, Lucia Gastaldi, and Ariel Lombardi. Analysis of finite element approximations of Stokes equations with NonSmooth data. *SIAM Journal on Numerical Analysis*, 58 (6):3309–3331, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Du:2022:DDL

[DGYZ22] Qiang Du, Yiqi Gu, Haizhao Yang, and Chao Zhou. The discovery of dynamics via linear multistep methods and deep learning: Error estimation. *SIAM Journal on Numerical Analysis*, 60 (4):2014–2045, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL https://epubs.siam.org/doi/10.1137/21M140691X.

Despres:2020:CSS

[DH20] Bruno Després and Maxime Herda. Computation of sum of squares polynomials from data points. *SIAM Journal on Numerical Analysis*, 58(3): 1719–1743, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Delourme:2021:CHB

[DH21] Bérangère Delourme and Laurence Halpern. A complex homographic best approximation problem. application to optimized Robin–Schwarz algorithms, and optimal control problems. *SIAM Journal on Numerical Analysis*, 59(3): 1769–1810, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Dorich:2022:EIQ

[DH22] Benjamin Dörich and Marlis Hochbruck. Exponential integrators for quasilinear wave-type equations. *SIAM Journal on Numerical Analysis*, 60(3):1472–1493, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL https://epubs.siam.org/doi/10.1137/21M1410579.

Dong:2023:IHO

[DHM23] Zhaonan Dong, Moritz Hauck, and Roland Maier. An im-

proved high-order method for elliptic multiscale problems. *SIAM Journal on Numerical Analysis*, 61(4):1918–1937, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/22M153392X`.

DeCaria:2024:APD

[DHS24] Victor P. DeCaria, Cory D. Hauck, and Stefan R. Schnake. An asymptotic preserving discontinuous Galerkin method for a linear Boltzmann semiconductor model. *SIAM Journal on Numerical Analysis*, 62 (3):1067–1097, May 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

DeCaria:2020:ACR

[DIL+20] Victor DeCaria, Traian Iliescu, William Layton, Michael McLaughlin, and Michael Schneier. An artificial compression reduced order model. *SIAM Journal on Numerical Analysis*, 58(1):565–589, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Duc:2023:NAR

[DK23] Luu Hoang Duc and Peter Kloeden. Numerical attractors for rough differential equations. *SIAM Journal on Numerical Analysis*, 61(5):2381–2407, October 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Droniou:2020:GDM

[DL20a] Jérôme Droniou and Kim-Ngan Le. The gradient discretization method for slow and fast diffusion porous media equations. *SIAM Journal on Numerical Analysis*, 58(3): 1965–1992, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Duprez:2020:FFE

[DL20b] Michel Duprez and Alexei Lozinski. ϕ-FEM: a finite element method on domains defined by level-sets. *SIAM Journal on Numerical Analysis*, 58 (2):1008–1028, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Dautov:2020:EEL

[DLZ20] R. Z. Dautov, A. V. Lapin, and S. Zhang. Error estimates for Lagrange–Galerkin approximation of American options valuation. *SIAM Journal on Numerical Analysis*, 58(1):48–65, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

DeRyck:2024:WWP

[DMM24] Tim De Ryck, Siddhartha Mishra, and Roberto Molinaro. wPINNs: Weak physics informed neural networks for

approximating entropy solutions of hyperbolic conservation laws. *SIAM Journal on Numerical Analysis*, 62(2): 811–841, March 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Dong:2021:RBP

[DMS21] Zhaonan Dong, Lorenzo Mascotto, and Oliver J. Sutton. Residual-based a posteriori error estimates for *hp*-discontinuous Galerkin discretizations of the biharmonic problem. *SIAM Journal on Numerical Analysis*, 59(3): 1273–1298, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Deckelnick:2021:EAF

[DN21] Klaus Deckelnick and Robert Nürnberg. Error analysis for a finite difference scheme for axisymmetric mean curvature flow of genus-0 surfaces. *SIAM Journal on Numerical Analysis*, 59(5):2698–2721, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Deckelnick:2023:DHC

[DN23] Klaus Deckelnick and Robert Nürnberg. Discrete hyperbolic curvature flow in the plane. *SIAM Journal on Numerical Analysis*, 61(4):1835–1857, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1493112`.

Demlow:2024:TPF

[DN24] Alan Demlow and Michael Neilan. A tangential and penalty-free finite element method for the surface Stokes problem. *SIAM Journal on Numerical Analysis*, 62(1): 248–272, January 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Despres:2022:OTC

[DNT22] B. Després, A. Nicolopoulos, and B. Thierry. Optimized transmission conditions in domain decomposition methods with cross-points for Helmholtz equation. *SIAM Journal on Numerical Analysis*, 60(5):2482–2507, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1421210`.

Diening:2024:PGE

[DRS24] Lars Diening, Julian Rolfes, and Abner J. Salgado. Pointwise gradient estimate of the Ritz projection. *SIAM Journal on Numerical Analysis*, 62 (3):1212–1225, May 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Dolejsi:2021:PEE

[DRV21] Vít Dolejsí, Filip Roskovec, and Miloslav Vlasák. A posteriori error estimates for higher order space-time Galerkin discretizations of nonlinear parabolic problems. *SIAM Journal on Numerical Analysis*, 59(3):1486–1509, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Du:2020:UEA

[DS20] Shukai Du and Francisco-Javier Sayas. A unified error analysis of hybridizable discontinuous Galerkin methods for the static Maxwell equations. *SIAM Journal on Numerical Analysis*, 58(2):1367–1391, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Dozsa:2024:BM

[DSS24] Tamás Dózsa, Ferenc Schipp, and Alexandros Soumelidis. On Bernoulli's method. *SIAM Journal on Numerical Analysis*, 62(3):1259–1277, May 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Diening:2021:SSP

[DST21] Lars Diening, Johannes Storn, and Tabea Tscherpel. On the Sobolev and L^p-stability of the L^2-projection. *SIAM Journal on Numerical Analysis*, 59(5):2571–2607, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Dong:2021:AND

[DSY21] Bin Dong, Zuowei Shen, and Jianbin Yang. Approximation from noisy data. *SIAM Journal on Numerical Analysis*, 59(5):2722–2745, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

daVeiga:2023:AVS

[dVCN+23] L. Beirão da Veiga, C. Canuto, R. H. Nochetto, G. Vacca, and M. Verani. Adaptive VEM: Stabilization-free a posteriori error analysis and contraction property. *SIAM Journal on Numerical Analysis*, 61(2):457–494, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1458740`.

Duru:2022:CES

[DWW22] Kenneth Duru, Siyang Wang, and Kenny Wiratama. A conservative and energy stable discontinuous spectral element method for the shifted wave equation in second order form. *SIAM Journal on Numerical Analysis*, 60(4):1631–1664, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1432922`.

Du:2022:CLL

[DXY22] Qiang Du, Hehu Xie, and Xiaobo Yin. On the convergence to local limit of nonlocal models with approximated interaction neighborhoods. *SIAM Journal on Numerical Analysis*, 60(4):2046–2068, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1448227`.

Eigel:2022:CAS

[EEST22] Martin Eigel, Oliver G. Ernst, Björn Sprungk, and Lorenzo Tamellini. On the convergence of adaptive stochastic collocation for elliptic partial differential equations with affine diffusion. *SIAM Journal on Numerical Analysis*, 60(2):659–687, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/20M1364722`.

Esedoglu:2022:MSO

[EG22] Selim Esedoğlu and Jiajia Guo. A monotone, second order accurate scheme for curvature motion. *SIAM Journal on Numerical Analysis*, 60(5):2435–2447, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1466050`.

Ern:2023:DGA

[EG23] Alexandre Ern and Jean-Luc Guermond. The discontinuous Galerkin approximation of the grad–div and curl—curl operators in first-order form is involution-preserving and spectrally correct. *SIAM Journal on Numerical Analysis*, 61(6):2940–2966, December 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Engstrom:2022:CAN

[EH22] Emil Engström and Eskil Hansen. Convergence analysis of the nonoverlapping Robin–Robin method for nonlinear elliptic equations. *SIAM Journal on Numerical Analysis*, 60(2):585–605, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1414942`.

Einkemmer:2024:APE

[EHK24] Lukas Einkemmer, Jingwei Hu, and Jonas Kusch. Asymptotic-preserving and energy stable dynamical low-rank approximation. *SIAM Journal on Numerical Analysis*, 62(1):73–92, January 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Evans:2020:PAA

[EPRX20] Claire Evans, Sara Pollock, Leo G. Rebholz, and Mengying

Xiao. A proof that Anderson acceleration improves the convergence rate in linearly converging fixed-point methods (but not in those converging quadratically). *SIAM Journal on Numerical Analysis*, 58 (1):788–810, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Egger:2020:SOM

[ER20] Herbert Egger and Bogdan Radu. On a second-order multipoint flux mixed finite element methods on hybrid meshes. *SIAM Journal on Numerical Analysis*, 58(3):1822–1844, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Egger:2021:SOF

[ER21] Herbert Egger and Bogdan Radu. A second-order finite element method with mass lumping for Maxwell's equations on tetrahedra. *SIAM Journal on Numerical Analysis*, 59(2):864–885, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Eriksson:2021:SPA

[EW21] Sofia Eriksson and Siyang Wang. Summation-by-parts approximations of the second derivative: Pseudoinverse and revisitation of a high order accurate operator. *SIAM Journal on Numerical Analysis*, 59 (5):2669–2697, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Fairag:2020:TLG

[FA20] Faisal A. Fairag and Johnson D. Audu. Two-level Galerkin mixed finite element method for Darcy–Forchheimer model in porous media. *SIAM Journal on Numerical Analysis*, 58(1):234–253, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Feppon:2022:AMC

[FA22] Florian Feppon and Habib Ammari. Analysis of a Monte–Carlo Nystrom method. *SIAM Journal on Numerical Analysis*, 60(3):1226–1250, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1432338`.

Foster:2024:HOS

[FdRS24] James M. Foster, Gonçalo dos Reis, and Calum Strange. High order splitting methods for SDEs satisfying a commutativity condition. *SIAM Journal on Numerical Analysis*, 62(1): 500–532, February 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Fitzpatrick:2021:CME

[FDvW21] Brian Fitzpatrick, Enzo De

Sena, and Toon van Waterschoot. On the convergence of the multipole expansion method. *SIAM Journal on Numerical Analysis*, 59(5):2473–2499, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Fang:2023:CRP

[FGK23] Zhou Fang, Ankit Gupta, and Mustafa Khammash. Convergence of regularized particle filters for stochastic reaction networks. *SIAM Journal on Numerical Analysis*, 61(2):399–430, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1453025`.

Farrell:2020:NAU

[FGOS20] P. E. Farrell, P. A. Gazca-Orozco, and E. Süli. Numerical analysis of unsteady implicitly constituted incompressible fluids: 3-field formulation. *SIAM Journal on Numerical Analysis*, 58(1):757–787, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Fischer:2021:PEA

[FGP21] Julian Fischer, Dietmar Gallistl, and Daniel Peterseim. A priori error analysis of a numerical stochastic homogenization method. *SIAM Journal on Numerical Analysis*, 59(2):660–674, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Fuhrer:2024:RDT

[FH24] Thomas Führer and Norbert Heuer. Robust DPG test spaces and Fortin operators — the H^1 and $h(\mathrm{div})$ cases. *SIAM Journal on Numerical Analysis*, 62(2):718–748, March 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Fuhrer:2022:MSO

[FHK22] Thomas Führer, Norbert Heuer, and Michael Karkulik. MINRES for second-order PDEs with singular data. *SIAM Journal on Numerical Analysis*, 60(3):1111–1135, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1457023`.

Fuhrer:2023:DPG

[FHN23] Thomas Führer, Norbert Heuer, and Antti H. Niemi. A discontinuous Petrov–Galerkin method for Reissner–Mindlin plates. *SIAM Journal on Numerical Analysis*, 61(2):995–1017, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1498838`.

Feng:2021:EEU

[FHW21] Xinlong Feng, Xueling Huang, and Kun Wang. Error estimate of unconditionally stable and decoupled linear positivity-preserving FEM for the chemotaxis-Stokes equations. *SIAM Journal on Numerical Analysis*, 59(6):3052–3076, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Fu:2022:MDC

[FK22] Guosheng Fu and Wenzheng Kuang. A monolithic divergence-conforming HDG scheme for a linear fluid-structure interaction model. *SIAM Journal on Numerical Analysis*, 60(2):631–658, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/20M1385950`.

Faustmann:2022:LCF

[FKM22] Markus Faustmann, Michael Karkulik, and Jens Markus Melenk. Local convergence of the FEM for the integral fractional Laplacian. *SIAM Journal on Numerical Analysis*, 60(3):1055–1082, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/20M1343853`.

Feng:2021:NSF

[FL21] Xiaobing Feng and Thomas Lewis. A narrow-stencil finite difference method for approximating viscosity solutions of Hamilton–Jacobi–Bellman equations. *SIAM Journal on Numerical Analysis*, 59(2):886–924, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Feng:2023:DFE

[FLH23] Xinlong Feng, Xiaoli Lu, and Yinnian He. Difference finite element method for the 3D steady Navier–Stokes equations. *SIAM Journal on Numerical Analysis*, 61(1):167–193, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1450872`.

Feng:2021:HOM

[FLM21] Xiaobing Feng, Buyang Li, and Shu Ma. High-order mass- and energy-conserving SAV–Gauss collocation finite element methods for the nonlinear Schrödinger equation. *SIAM Journal on Numerical Analysis*, 59(3):1566–1591, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Foster:2020:OPA

[FLO20] James Foster, Terry Lyons, and Harald Oberhauser. An optimal polynomial approximation of Brownian motion. *SIAM Journal on Numeri-*

cal Analysis, 58(3):1393–1421, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Fischer:2021:WTP

[FM21] Julian Fischer and Daniel Matthes. The waiting time phenomenon in spatially discretized porous medium and thin film equations. *SIAM Journal on Numerical Analysis*, 59(1):60–87, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Faustmann:2023:ECH

[FMMS23] Markus Faustmann, Carlo Marcati, Jens Markus Melenk, and Christoph Schwab. Exponential convergence of *hp*-FEM for the integral fractional Laplacian in polygons. *SIAM Journal on Numerical Analysis*, 61(6):2601–2622, November 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Fjordholm:2022:WPC

[FMR22] Ulrik S. Fjordholm, Markus Musch, and Nils H. Risebro. Well-posedness and convergence of a finite volume method for conservation laws on networks. *SIAM Journal on Numerical Analysis*, 60(2):606–630, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M145001X`.

Feischl:2020:SCE

[FP20] Michael Feischl and Daniel Peterseim. Sparse compression of expected solution operators. *SIAM Journal on Numerical Analysis*, 58(6):3144–3164, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Fjordholm:2021:SOA

[FR21] Ulrik S. Fjordholm and Adrian M. Ruf. Second-order accurate TVD numerical methods for nonlocal nonlinear conservation laws. *SIAM Journal on Numerical Analysis*, 59 (3):1167–1194, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Fang:2023:OEB

[FV23] Di Fang and Albert Tres Vilanova. Observable error bounds of the time-splitting scheme for quantum-classical molecular dynamics. *SIAM Journal on Numerical Analysis*, 61(1):26–44, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1462349`.

Garcia-Archilla:2023:PRI

[GAJN23] Bosco García-Archilla, Volker John, and Julia Novo. POD-ROMs for incompressible flows

including snapshots of the temporal derivative of the full order solution. *SIAM Journal on Numerical Analysis*, 61(3):1340–1368, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1503853`.

Gallistl:2021:PEA

[Gal21] Dietmar Gallistl. A posteriori error analysis of the inf-sup constant for the divergence. *SIAM Journal on Numerical Analysis*, 59(1):249–264, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Garcia-Archilla:2020:UTE

[GANT20] Bosco García-Archilla, Julia Novo, and Edriss S. Titi. Uniform in time error estimates for a finite element method applied to a downscaling data assimilation algorithm for the Navier–Stokes equations. *SIAM Journal on Numerical Analysis*, 58(1):410–429, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Gawlik:2020:HOA

[Gaw20] Evan S. Gawlik. High-order approximation of Gaussian curvature with Regge finite elements. *SIAM Journal on Numerical Analysis*, 58(3):1801–1821, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Guastavino:2020:CRS

[GB20] Sabrina Guastavino and Federico Benvenuto. Convergence rates of spectral regularization methods: a comparison between ill-posed inverse problems and statistical kernel learning. *SIAM Journal on Numerical Analysis*, 58(6):3504–3529, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Georgoulis:2021:HCF

[Geo21] Emmanuil H. Georgoulis. Hypocoercivity-compatible finite element methods for the long-time computation of Kolmogorov's equation. *SIAM Journal on Numerical Analysis*, 59(1):173–194, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Gao:2020:ORP

[GFSZ20] Wenwu Gao, Gregory E. Fasshauer, Xingping Sun, and Xuan Zhou. Optimality and regularization properties of quasi-interpolation: Deterministic and stochastic approaches. *SIAM Journal on Numerical Analysis*, 58(4):2059–2078, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Guillen-Gonzalez:2023:CTD

[GGC23] Francisco Guillén-González and André Luiz Corrêa Vianna Filho. Convergence of a time discrete scheme for a chemotaxis-consumption model. *SIAM Journal on Numerical Analysis*, 61(5):2509–2533, October 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Gottlieb:2022:HOS

[GGHS22] Sigal Gottlieb, Zachary J. Grant, Jingwei Hu, and Ruiwen Shu. High order strong stability preserving Multi-Derivative implicit and IMEX Runge–Kutta methods with asymptotic preserving properties. *SIAM Journal on Numerical Analysis*, 60(1):423–449, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1403175`.

Gedicke:2021:PDR

[GGPS21] Joscha Gedicke, Sjoerd Geevers, Ilaria Perugia, and Joachim Schöberl. A polynomial-degree-robust a posteriori error estimator for Nédélec discretizations of magnetostatic problems. *SIAM Journal on Numerical Analysis*, 59(4):2237–2253, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Gu:2023:SDE

[GHLY23] Yiqi Gu, John Harlim, Senwei Liang, and Haizhao Yang. Stationary density estimation of Itô diffusions using deep learning. *SIAM Journal on Numerical Analysis*, 61(1):45–82, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1445363`.

Griebel:2020:MQE

[GHM20] Michael Griebel, Helmut Harbrecht, and Michael D. Multerer. Multilevel quadrature for elliptic parametric partial differential equations in case of polygonal approximations of curved domains. *SIAM Journal on Numerical Analysis*, 58(1):684–705, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Gander:2021:MAC

[GHM21] Martin J. Gander, Julian Hennicker, and Roland Masson. Modeling and analysis of the coupling in discrete fracture matrix models. *SIAM Journal on Numerical Analysis*, 59(1):195–218, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Guth:2024:GDT

[GK24] Philipp A. Guth and Vesa Kaarnioja. Generalized dimension truncation error analysis

for high-dimensional numerical integration: Lognormal setting and beyond. *SIAM Journal on Numerical Analysis*, 62(2): 872–892, March 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Grekas:2022:AEM

[GKMR22] Georgios Grekas, Konstantinos Koumatos, Charalambos Makridakis, and Phoebus Rosakis. Approximations of energy minimization in cell-induced phase transitions of fibrous biomaterials: Γ-convergence analysis. *SIAM Journal on Numerical Analysis*, 60(2):715–750, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/20M137286X`.

Gjerde:2021:MAP

[GKN21] Ingeborg G. Gjerde, Kundan Kumar, and Jan M. Nordbotten. A mixed approach to the Poisson problem with line sources. *SIAM Journal on Numerical Analysis*, 59(2):1117–1139, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Gilbert:2023:APF

[GKS23] Alexander D. Gilbert, Frances Y. Kuo, and Ian H. Sloan. Analysis of preintegration followed by quasi-Monte Carlo integration for distribution functions and densities. *SIAM Journal on Numerical Analysis*, 61(1):135–166, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M146658X`.

Glaubitz:2020:SHO

[Gla20] Jan Glaubitz. Stable high order quadrature rules for scattered data and general weight functions. *SIAM Journal on Numerical Analysis*, 58(4): 2144–2164, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Gopalakrishnan:2020:MCM

[GLS20] Jay Gopalakrishnan, Philip L. Lederer, and Joachim Schöberl. A mass conserving mixed stress formulation for Stokes flow with weakly imposed stress symmetry. *SIAM Journal on Numerical Analysis*, 58 (1):706–732, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Guglielmi:2023:RMD

[GLS23] Nicola Guglielmi, Christian Lubich, and Stefano Sicilia. Rank-1 matrix differential equations for structured eigenvalue optimization. *SIAM Journal on Numerical Analysis*, 61(4):1737–1762, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-

7170 (electronic). URL https://epubs.siam.org/doi/10.1137/22M1498735.

Gui:2022:CRF

[GLW22] Xinping Gui, Buyang Li, and Jilu Wang. Convergence of renormalized finite element methods for heat flow of harmonic maps. *SIAM Journal on Numerical Analysis*, 60(1):312–338, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL https://epubs.siam.org/doi/10.1137/21M1402212.

Gomez:2022:STT

[GM22] Sergio Gómez and Andrea Moiola. A space-time Trefftz discontinuous Galerkin method for the linear Schrödinger equation. *SIAM Journal on Numerical Analysis*, 60(2):688–714, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL https://epubs.siam.org/doi/10.1137/21M1426079.

Gomez:2024:STV

[GMMP24] Sergio Gomez, Lorenzo Mascotto, Andrea Moiola, and Ilaria Perugia. Space-time virtual elements for the heat equation. *SIAM Journal on Numerical Analysis*, 62(1):199–228, January 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Gudi:2022:HHO

[GMP22] Thirupathi Gudi, Gouranga Mallik, and Tamal Pramanick. A hybrid high-order method for quasilinear elliptic problems of nonmonotone type. *SIAM Journal on Numerical Analysis*, 60(4):2318–2344, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL https://epubs.siam.org/doi/10.1137/21M1412050.

Gong:2022:AAD

[GMSZ22] Wei Gong, Mariano Mateos, John Singler, and Yangwen Zhang. Analysis and approximations of Dirichlet boundary control of Stokes flows in the energy space. *SIAM Journal on Numerical Analysis*, 60(1):450–474, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL https://epubs.siam.org/doi/10.1137/21M1406799.

Glaubitz:2023:SPO

[GNÖ23] Jan Glaubitz, Jan Nordström, and Philipp Öffner. Summation-by-parts operators for general function spaces. *SIAM Journal on Numerical Analysis*, 61(2):733–754, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL https://epubs.siam.org/doi/10.1137/22M1470141.

Gergelits:2020:GSS

[GNS20] Tomás Gergelits, Bjørn Fredrik Nielsen, and Zdenek Strakos. Generalized spectrum of second order differential operators. *SIAM Journal on Numerical Analysis*, 58(4):2193–2211, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Gutleb:2020:SSM

[GO20] Timon S. Gutleb and Sheehan Olver. A sparse spectral method for Volterra integral equations using orthogonal polynomials on the triangle. *SIAM Journal on Numerical Analysis*, 58(3):1993–2018, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Glusa:2021:EEO

[GO21] Christian Glusa and Enrique Otárola. Error estimates for the optimal control of a parabolic fractional PDE. *SIAM Journal on Numerical Analysis*, 59(2):1140–1165, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Gallistl:2023:CLB

[GO23] Dietmar Gallistl and Vladislav Olkhovskiy. Computational lower bounds of the Maxwell eigenvalues. *SIAM Journal on Numerical Analysis*, 61(2):539–561, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1461447`.

Golse:2022:SRT

[GP22] François Golse and Olivier R. Pironneau. Stratified radiative transfer in a fluid and numerical applications to Earth science. *SIAM Journal on Numerical Analysis*, 60(5):2963–3000, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1459009`.

Gonzalez-Pinto:2020:CNO

[GPHHA20] S. González-Pinto, E. Hairer, and D. Hernandez-Abreu. Convergence in ℓ_2 and ℓ_∞ norm of one-stage AMF-W-methods for parabolic problems. *SIAM Journal on Numerical Analysis*, 58(2):1117–1137, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Guermond:2020:PAP

[GPR20] Jean-Luc Guermond, Bojan Popov, and Jean Ragusa. Positive and asymptotic preserving approximation of the radiation transport equation. *SIAM Journal on Numerical Analysis*, 58(1):519–540, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Gallistl:2021:THD

[GS21] Dietmar Gallistl and Mira Schedensack. Taylor–Hood discretization of the Reissner–Mindlin plate. *SIAM Journal on Numerical Analysis*, 59(3): 1195–1217, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Gantner:2022:WPF

[GS22] Gregor Gantner and Rob Stevenson. A well-posed first order system least squares formulation of the instationary Stokes equations. *SIAM Journal on Numerical Analysis*, 60(3):1607–1629, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1432600`.

Gao:2023:OAN

[GS23] Huadong Gao and Weiwei Sun. Optimal analysis of nonuniform Galerkin-mixed finite element approximations to the Ginzburg–Landau equations in superconductivity. *SIAM Journal on Numerical Analysis*, 61(2):929–951, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1483670`.

Goda:2024:UMQ

[GSM24] Takashi Goda, Kosuke Suzuki, and Makoto Matsumoto. A universal median quasi-Monte Carlo integration. *SIAM Journal on Numerical Analysis*, 62 (1):533–566, February 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Gong:2021:FEA

[GSW21] Bo Gong, Jiguang Sun, and Xinming Wu. Finite element approximation of the modified Maxwell's Stekloff eigenvalues. *SIAM Journal on Numerical Analysis*, 59(5):2430–2448, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Graham:2020:DDL

[GSZ20] Ivan G. Graham, Euan A. Spence, and Jun Zou. Domain decomposition with local impedance conditions for the Helmholtz equation with absorption. *SIAM Journal on Numerical Analysis*, 58(5): 2515–2543, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Guo:2021:SPM

[Guo21] Ruchi Guo. Solving parabolic moving interface problems with dynamical immersed spaces on unfitted meshes: Fully discrete analysis. *SIAM Journal on Numerical Analysis*, 59(2):797–828, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Gosse:2020:TTD

[GV20] Laurent Gosse and Nicolas Vauchelet. A truly two-dimensional, asymptotic-preserving scheme for a discrete model of radiative transfer. *SIAM Journal on Numerical Analysis*, 58(2):1092–1116, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Gomez-Vargas:2023:TSP

[GVMRBV23] Bryan Gómez-Vargas, Kent-André Mardal, Ricardo Ruiz-Baier, and Vegard Vinje. Twofold saddle-point formulation of Biot poroelasticity with stress-dependent diffusion. *SIAM Journal on Numerical Analysis*, 61 (3):1449–1481, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1449695`.

Gabbard:2024:LGF

[GvR24] James Gabbard and Wim M. van Rees. Lattice Green's functions for high-order finite difference stencils. *SIAM Journal on Numerical Analysis*, 62 (1):25–47, January 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Gander:2020:DBP

[GW20] Martin J. Gander and Shu-Lin Wu. A diagonalization-based parareal algorithm for dissipative and wave propagation problems. *SIAM Journal on Numerical Analysis*, 58(5): 2981–3009, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Gudibanda:2022:CAF

[GWY22] Varun M. Gudibanda, Franziska Weber, and Yukun Yue. Convergence analysis of a fully discrete energy-stable numerical scheme for the Q-Tensor Flow of liquid crystals. *SIAM Journal on Numerical Analysis*, 60(4):2150–2181, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/20M1383550`.

Gong:2021:DSG

[GZ21] Wei Gong and Shengfeng Zhu. On discrete shape gradients of boundary type for PDE-constrained shape optimization. *SIAM Journal on Numerical Analysis*, 59(3):1510–1541, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Halla:2021:ARC

[Hal21] Martin Halla. Analysis of radial complex scaling methods: Scalar resonance problems. *SIAM Journal on Numerical Analysis*, 59(4):2054–2074, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Halla:2022:RCS

[Hal22] Martin Halla. Radial complex scaling for anisotropic scalar resonance problems. *SIAM Journal on Numerical Analysis*, 60(5):2713–2730, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1455747`.

Hanot:2023:AOP

[Han23] Marien-Lorenzo Hanot. An arbitrary order and pointwise divergence-free finite element scheme for the incompressible 3D Navier–Stokes equations. *SIAM Journal on Numerical Analysis*, 61(2):784–811, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1443686`.

Haji-Ali:2022:AMM

[HAST22] Abdul-Lateef Haji-Ali, Jonathan Spence, and Aretha L. Teckentrup. Adaptive multilevel Monte Carlo for probabilities. *SIAM Journal on Numerical Analysis*, 60(4):2125–2149, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1447064`.

Huang:2024:ACC

[HD24] Kuang Huang and Qiang Du. Asymptotic compatibility of a class of numerical schemes for a nonlocal traffic flow model. *SIAM Journal on Numerical Analysis*, 62(3):1119–1144, May 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

He:2022:OMN

[HG22] Wen-Ming He and Hailong Guo. Optimal maximum norm estimates for virtual element methods. *SIAM Journal on Numerical Analysis*, 60(3):1251–1280, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1420186`.

Han:2024:LHD

[HHL24] Jiequn Han, Ruimeng Hu, and Jihao Long. Learning high-dimensional McKean–Vlasov forward–backward stochastic differential equations with general distribution dependence. *SIAM Journal on Numerical Analysis*, 62(1):1–24, January 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Hiemstra:2020:TEM

[HHM+20] René R. Hiemstra, Thomas J. R. Hughes, Carla Manni, Hendrik Speleers, and Deepesh Toshniwal. A Tchebycheffian extension of multidegree B-splines: Algorithmic computation and properties. *SIAM Journal on Numerical Analysis*, 58(2):1138–1163, ????

2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Herremans:2023:RSR

[HHT23] Astrid Herremans, Daan Huybrechs, and Lloyd N. Trefethen. Resolution of singularities by rational functions. *SIAM Journal on Numerical Analysis*, 61(6):2580–2600, November 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Hiptmair:2020:OOP

[HJHUT20] Ralf Hiptmair, Carlos Jerez-Hanckes, and Carolina Urzúa-Torres. Optimal operator preconditioning for Galerkin boundary element methods on 3-dimensional screens. *SIAM Journal on Numerical Analysis*, 58(1):834–857, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Hutzenthaler:2020:MPA

[HK20] Martin Hutzenthaler and Thomas Kruse. Multilevel Picard approximations of high-dimensional semilinear parabolic differential equations with gradient-dependent nonlinearities. *SIAM Journal on Numerical Analysis*, 58(2): 929–961, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Ha:2021:IAF

[HKYY21] Youngsoo Ha, Chang Ho Kim, Hyoseon Yang, and Jungho Yoon. Improving accuracy of the fifth-order WENO scheme by using the exponential approximation space. *SIAM Journal on Numerical Analysis*, 59(1):143–172, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Heltai:2023:AFE

[HL23] Luca Heltai and Wenyu Lei. Adaptive finite element approximations for elliptic problems using regularized forcing data. *SIAM Journal on Numerical Analysis*, 61 (2):431–456, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1455991`.

Hu:2022:CFE

[HLM22] Jun Hu, Yizhou Liang, and Rui Ma. Conforming finite element DIVDIV complexes and the application for the linearized Einstein–Bianchi system. *SIAM Journal on Numerical Analysis*, 60(3):1307–1330, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1404235`.

Hairer:2023:LMR

[HLS23] Ernst Hairer, Christian Lu-

bich, and Yanyan Shi. Leapfrog methods for relativistic charged-particle dynamics. *SIAM Journal on Numerical Analysis*, 61(6):2844–2858, November 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Huo:2021:ESP

[HLTW21] Xiaokai Huo, Hailiang Liu, Athanasios E. Tzavaras, and Shuaikun Wang. An energy stable and positivity-preserving scheme for the Maxwell–Stefan diffusion system. *SIAM Journal on Numerical Analysis*, 59(5):2321–2345, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Han:2022:SWE

[HM22] Bin Han and Michelle Michelle. Sharp wavenumber-explicit stability bounds for 2D Helmholtz equations. *SIAM Journal on Numerical Analysis*, 60(4):1985–2013, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1446186`.

Hannukainen:2022:DSL

[HMO22] Antti Hannukainen, Jarmo Malinen, and Antti Ojalammi. Distributed solution of Laplacian eigenvalue problems. *SIAM Journal on Numerical Analysis*, 60(1):76–103, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/20M1342653`.

Hong:2021:RNA

[HN21] Youngjoon Hong and David Nicholls. A rigorous numerical analysis of the transformed field expansion method for diffraction by periodic, layered structures. *SIAM Journal on Numerical Analysis*, 59 (1):456–476, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Hoyt:2020:MDR

[HO20] Christopher R. Hoyt and Art B. Owen. Mean dimension of ridge functions. *SIAM Journal on Numerical Analysis*, 58 (2):1195–1216, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Hoyt:2024:MDR

[HO24] Christopher Hoyt and Art B. Owen. Mean dimension of radial basis functions. *SIAM Journal on Numerical Analysis*, 62(3):1191–1211, May 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Henning:2020:SGF

[HP20] Patrick Henning and Daniel Peterseim. Sobolev gradient flow for the Gross–Pitaevskii eigenvalue problem: Global

convergence and computational efficiency. *SIAM Journal on Numerical Analysis*, 58 (3):1744–1772, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Hure:2021:DNN

[HPBL21] Côme Huré, Huyên Pham, Achref Bachouch, and Nicolas Langrené. Deep neural networks algorithms for stochastic control problems on finite horizon: Convergence analysis. *SIAM Journal on Numerical Analysis*, 59(1):525–557, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Hu:2021:NSC

[HQY21] Jingwei Hu, Kunlun Qi, and Tong Yang. A new stability and convergence proof of the Fourier–Galerkin spectral method for the spatially homogeneous Boltzmann equation. *SIAM Journal on Numerical Analysis*, 59(2):613–633, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Hu:2020:NLS

[HS20] Qiya Hu and Rongrong Song. A novel least squares method for Helmholtz equations with large wave numbers. *SIAM Journal on Numerical Analysis*, 58(5):3091–3123, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Huang:2021:SEA

[HS21] Fukeng Huang and Jie Shen. Stability and error analysis of a class of high-order IMEX schemes for Navier–Stokes equations with periodic boundary conditions. *SIAM Journal on Numerical Analysis*, 59(6):2926–2954, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Huang:2023:SEA

[HS23] Fukeng Huang and Jie Shen. Stability and error analysis of a second-order consistent splitting scheme for the Navier–Stokes equations. *SIAM Journal on Numerical Analysis*, 61 (5):2408–2433, October 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Horning:2020:FDE

[HT20] Andrew Horning and Alex Townsend. FEAST for differential eigenvalue problems. *SIAM Journal on Numerical Analysis*, 58(2):1239–1262, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Hu:2021:CHX

[Hu21] Qiya Hu. Convergence of the Hiptmair–Xu preconditioner for Maxwell's equations with

jump coefficients (i): Extensions of the regular decomposition. *SIAM Journal on Numerical Analysis*, 59(5):2500–2535, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Hu:2023:CHX

[Hu23] Qiya Hu. Convergence of the Hiptmair–Xu preconditioner for $H(\mathbf{curl})$-elliptic problems with jump coefficients (ii): Main results. *SIAM Journal on Numerical Analysis*, 61(5): 2434–2459, October 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Huybrechs:2022:CGQ

[Huy22] Daan Huybrechs. On the computation of Gaussian quadrature rules for Chebyshev sets of linearly independent functions. *SIAM Journal on Numerical Analysis*, 60(3):1168–1192, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1456935`.

Hoff:2021:MMP

[HW21] Daniel Hoff and Holger Wendland. A meshfree method for a PDE-Constrained optimization problem. *SIAM Journal on Numerical Analysis*, 59(4): 1896–1917, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Han:2022:MDI

[HW22] Rubing Han and Shuonan Wu. A monotone discretization for integral fractional Laplacian on bounded Lipschitz domains: Pointwise error estimates under Hölder regularity. *SIAM Journal on Numerical Analysis*, 60(6):3052–3077, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1448239`.

Hong:2020:ALE

[HX20] Xue Hong and Yinhua Xia. Arbitrary Lagrangian–Eulerian discontinuous Galerkin method for hyperbolic equations involving δ-singularities. *SIAM Journal on Numerical Analysis*, 58(1):125–152, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Hensel:2022:NAM

[HY22] Maurice Hensel and Irwin Yousept. Numerical analysis for Maxwell obstacle problems in electric shielding. *SIAM Journal on Numerical Analysis*, 60(3):1083–1110, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1427693`.

Hao:2020:ORE

[HZ20] Zhaopeng Hao and Zhongqiang Zhang. Optimal regular-

ity and error estimates of a spectral Galerkin method for fractional advection–diffusion–reaction equations. *SIAM Journal on Numerical Analysis*, 58(1):211–233, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

He:2023:ERI

[HZW23] Zhijian He, Zhan Zheng, and Xiaoqun Wang. On the error rate of importance sampling with randomized quasi-Monte Carlo. *SIAM Journal on Numerical Analysis*, 61(2):515–538, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1510121`.

Hu:2022:FFE

[HZZ22] Kaibo Hu, Qian Zhang, and Zhimin Zhang. A family of finite element Stokes complexes in three dimensions. *SIAM Journal on Numerical Analysis*, 60(1):222–243, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/20M1358700`.

Imbert-Gerard:2021:ABG

[IG21] Lise-Marie Imbert-Gerard. Amplitude-based generalized plane waves: New quasi-Trefftz functions for scalar equations in two dimensions. *SIAM Journal on Numerical Analysis*, 59(3):1663–1686, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Izgin:2022:SUP

[IKM22] Thomas Izgin, Stefan Kopecz, and Andreas Meister. On the stability of unconditionally positive and linear invariants preserving time integration schemes. *SIAM Journal on Numerical Analysis*, 60(6):3029–3051, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1480318`.

Joly:2022:LTB

[JK22] Patrick Joly and Maryna Kachanovska. Local transparent boundary conditions for wave propagation in fractal trees (II). Error and complexity analysis. *SIAM Journal on Numerical Analysis*, 60(2):529–557, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/20M1357524`.

Jayadharan:2023:STM

[JKVY23] Manu Jayadharan, Michel Kern, Martin Vohralík, and Ivan Yotov. A space-time multiscale mortar mixed finite element method for parabolic equations. *SIAM Journal*

on Numerical Analysis, 61 (2):675–706, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1447945`.

Jin:2021:CRB

[JLL21] Shi Jin, Lei Li, and Jian-Guo Liu. Convergence of the random batch method for interacting particles with disparate species and weights. *SIAM Journal on Numerical Analysis*, 59(2):746–768, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Jia:2022:SVG

[JLM22] Junxiong Jia, Peijun Li, and Deyu Meng. Stein variational gradient descent on infinite-dimensional space and applications to statistical inverse problems. *SIAM Journal on Numerical Analysis*, 60(4):2225–2252, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1440773`.

Ju:2022:GSE

[JLQ22] Lili Ju, Xiao Li, and Zhonghua Qiao. Generalized SAV-exponential integrator schemes for Allen–Cahn type gradient flows. *SIAM Journal on Numerical Analysis*, 60 (4):1905–1931, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1446496`.

Jiang:2022:FEM

[JLWZ22] Run Jiang, Yonglin Li, Haijun Wu, and Jun Zou. Finite element method for a nonlinear perfectly matched layer Helmholtz equation with high wave number. *SIAM Journal on Numerical Analysis*, 60(5):2866–2896, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1459381`.

Jiang:2021:ACC

[JLY21] Nan Jiang, Ying Li, and Huanhuan Yang. An artificial compressibility Crank–Nicolson leap-frog method for the Stokes–Darcy model and application in ensemble simulations. *SIAM Journal on Numerical Analysis*, 59(1):401–428, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Jiang:2024:NMA

[JLZ24] Kai Jiang, Shifeng Li, and Pingwen Zhang. Numerical methods and analysis of computing quasiperiodic systems. *SIAM Journal on Numerical Analysis*, 62(1):353–375, February 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Jiang:2023:CPP

[JSZ23] Wei Jiang, Chunmei Su, and Ganghui Zhang. A convexity-preserving and perimeter-decreasing parametric finite element method for the area-preserving curve shortening flow. *SIAM Journal on Numerical Analysis*, 61 (4):1989–2010, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1514404`.

Jin:2021:EAF

[JZ21a] Bangti Jin and Zhi Zhou. Error analysis of finite element approximations of diffusion coefficient identification for elliptic and parabolic problems. *SIAM Journal on Numerical Analysis*, 59(1):119–142, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Jungel:2021:CSP

[JZ21b] Ansgar Jüngel and Antoine Zurek. A convergent structure-preserving finite-volume scheme for the Shigesada–Kawasaki–Teramoto population system. *SIAM Journal on Numerical Analysis*, 59(4): 2286–2309, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Kamenski:2021:SBS

[Kam21] Lennard Kamenski. Sharp bounds on the smallest eigenvalue of finite element equations with arbitrary meshes without regularity assumptions. *SIAM Journal on Numerical Analysis*, 59(2):983–997, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Karaa:2021:PDT

[Kar21] Samir Karaa. Positivity of discrete time-fractional operators with applications to phase-field equations. *SIAM Journal on Numerical Analysis*, 59(4): 2040–2053, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Keller:2021:DDU

[KD21] Rachael T. Keller and Qiang Du. Discovery of dynamics using linear multistep methods. *SIAM Journal on Numerical Analysis*, 59(1):429–455, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Khan:2020:RPE

[KK20] Arbaz Khan and Guido Kanschat. A robust a posteriori error estimator for divergence-conforming discontinuous Galerkin methods for the Oseen equation. *SIAM Journal on Numerical Analysis*, 58(1):492–518, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Kaarnioja:2020:UQU

[KKS20] V. Kaarnioja, F. Y. Kuo, and I. H. Sloan. Uncertainty quantification using periodic random variables. *SIAM Journal on Numerical Analysis*, 58(2): 1068–1091, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Kuchta:2021:AAM

[KLMZ21] Miroslav Kuchta, Federica Laurino, Kent-Andre Mardal, and Paolo Zunino. Analysis and approximation of mixed-dimensional PDEs on 3D–1D domains coupled with Lagrange multipliers. *SIAM Journal on Numerical Analysis*, 59(1):558–582, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Kovacs:2020:MLE

[KLS20] Mihály Kovács, Stig Larsson, and Fardin Saedpanah. Mittag-Leffler Euler integrator for a stochastic fractional order equation with additive noise. *SIAM Journal on Numerical Analysis*, 58(1):66–85, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Kopteva:2020:EAF

[KM20a] Natalia Kopteva and Xiangyun Meng. Error analysis for a fractional-derivative parabolic problem on quasi-graded meshes using barrier functions. *SIAM Journal on Numerical Analysis*, 58(2): 1217–1238, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Kyza:2020:PPE

[KM20b] Irene Kyza and Stephen Metcalfe. Pointwise a posteriori error bounds for blow-up in the semilinear heat equation. *SIAM Journal on Numerical Analysis*, 58(5):2609–2631, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Kazakova:2020:DTB

[KN20] Maria Kazakova and Pascal Noble. Discrete transparent boundary conditions for the linearized Green–Naghdi system of equations. *SIAM Journal on Numerical Analysis*, 58 (1):657–683, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Kazashi:2023:DER

[KN23] Yoshihito Kazashi and Fabio Nobile. Density estimation in RKHS with application to Korobov spaces in high dimensions. *SIAM Journal on Numerical Analysis*, 61 (2):1080–1102, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/22M147476X`.

Kao:2023:HFF

[KOO23] Chiu-Yen Kao, Braxton Osting, and Édouard Oudet. Harmonic functions on finitely connected tori. *SIAM Journal on Numerical Analysis*, 61(6): 2795–2812, November 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Kopteva:2020:EAT

[Kop20] Natalia Kopteva. Error analysis for time-fractional semilinear parabolic equations using upper and lower solutions. *SIAM Journal on Numerical Analysis*, 58(4):2212–2234, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Kindermann:2020:CHP

[KR20] Stefan Kindermann and Kemal Raik. Convergence of heuristic parameter choice rules for convex Tikhonov regularization. *SIAM Journal on Numerical Analysis*, 58(3): 1773–1800, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Kaltenbach:2023:LDGa

[KR23a] Alex Kaltenbach and Michael Ruzicka. A local discontinuous Galerkin approximation for the p-Navier–Stokes system, Part I: Convergence analysis. *SIAM Journal on Numerical Analysis*, 61(4):1613–1640, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/22M151474X`.

Kaltenbach:2023:LDGb

[KR23b] Alex Kaltenbach and Michael Ruzicka. A local discontinuous Galerkin approximation for the p-Navier–Stokes system, Part II: Convergence rates for the velocity. *SIAM Journal on Numerical Analysis*, 61(4):1641–1663, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1514751`.

Kaltenbach:2023:LDGc

[KR23c] Alex Kaltenbach and Michael Ruzicka. A local discontinuous Galerkin approximation for the p-Navier–Stokes system, Part III: Convergence rates for the pressure. *SIAM Journal on Numerical Analysis*, 61(4):1763–1782, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1541472`.

Kopteva:2023:PPE

[KR23d] Natalia Kopteva and Richard Rankin. Pointwise a posteriori error estimates for discontinuous Galerkin methods for singularly perturbed reaction–diffusion equations. *SIAM*

Journal on Numerical Analysis, 61(4):1938–1961, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/22M149733X`.

Koc:2021:OPT

[KRS+21] Birgul Koc, Samuele Rubino, Michael Schneier, John Singler, and Traian Iliescu. On optimal pointwise in time error bounds and difference quotients for the proper orthogonal decomposition. *SIAM Journal on Numerical Analysis*, 59(4):2163–2196, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Kean:2020:EAS

[KS20] Kiera Kean and Michael Schneier. Error analysis of supremizer pressure recovery for POD based reduced-order models of the time-dependent Navier–Stokes equations. *SIAM Journal on Numerical Analysis*, 58(4):2235–2264, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Kazashi:2023:SGH

[KSG23] Yoshihito Kazashi, Yuya Suzuki, and Takashi Goda. Suboptimality of Gauss–Hermite quadrature and optimality of the trapezoidal rule for functions with finite smoothness. *SIAM Journal on Numerical Analysis*, 61(3):1426–1448, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1480276`.

Khieu:2022:SRB

[KV22] Tran Thi Khieu and Hoang-Hung Vo. Stability results for backward nonlinear diffusion equations with temporal coupling operator of local and nonlocal type. *SIAM Journal on Numerical Analysis*, 60(4):1665–1700, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1421763`.

Kaliuzhnyi-Verbovetskyi:2022:SMC

[KVM22] Dmitry Kaliuzhnyi-Verbovetskyi and Georgi S. Medvedev. Sparse Monte Carlo method for nonlocal diffusion problems. *SIAM Journal on Numerical Analysis*, 60(6):3001–3028, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/19M1308657`.

Komori:2023:FMM

[KYB23] Yoshio Komori, Guoguo Yang, and Kevin Burrage. Formulae for mixed moments of Wiener processes and a stochastic area integral. *SIAM Journal on Numerical Analysis*,

61(4):1716–1736, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/22M152013X`.

Labovsky:2020:ADC

[Lab20] Alexander E. Labovsky. Approximate deconvolution with correction: a member of a new class of models for high Reynolds number flows. *SIAM Journal on Numerical Analysis*, 58(5):3068–3090, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Li:2022:ASE

[LAZ22] Hao Li, Daniel Appelö, and Xiangxiong Zhang. Accuracy of spectral element method for wave, parabolic, and Schrödinger equations. *SIAM Journal on Numerical Analysis*, 60(1):339–363, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1401760`.

Lin:2024:KIH

[LCS24] Shao-Bo Lin, Xiangyu Chang, and Xingping Sun. Kernel interpolation of high dimensional scattered data. *SIAM Journal on Numerical Analysis*, 62(3):1098–1118, May 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Du:2022:TSO

[lDzSW22] Rui lian Du, Zhi zhong Sun, and Hong Wang. Temporal second-order finite difference schemes for variable-order time-fractional wave equations. *SIAM Journal on Numerical Analysis*, 60 (1):104–132, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/19M1301230`.

Lederer:2021:HHJ

[Led21] Philip L. Lederer. A Hellan–Herrmann–Johnson-like method for the stream function formulation of the Stokes equations in two and three space dimensions. *SIAM Journal on Numerical Analysis*, 59(1):503–524, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

LeRoux:2020:FAH

[LET20] Daniel Y. Le Roux, Christopher Eldred, and Mark A. Taylor. Fourier analyses of high-order continuous and discontinuous Galerkin methods. *SIAM Journal on Numerical Analysis*, 58(3):1845–1866, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Li:2020:CDL

[Li20] Buyang Li. Convergence of Dziuk's linearly implicit paramet-

ric finite element method for curve shortening flow. *SIAM Journal on Numerical Analysis*, 58(4):2315–2333, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Li:2021:CDS

[Li21] Buyang Li. Convergence of Dziuk's semidiscrete finite element method for mean curvature flow of closed surfaces with high-order finite elements. *SIAM Journal on Numerical Analysis*, 59(3):1592–1617, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Liu:2021:CMF

[LJL+21] Siting Liu, Matthew Jacobs, Wuchen Li, Levon Nurbekyan, and Stanley J. Osher. Computational methods for first-order nonlocal mean field games with applications. *SIAM Journal on Numerical Analysis*, 59(5):2639–2668, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Lai:2022:MSB

[LL22a] Ming-Jun Lai and Jinsil Lee. A multivariate spline based collocation method for numerical solution of partial differential equations. *SIAM Journal on Numerical Analysis*, 60(5):2405–2434, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1469602`.

Lou:2022:IUB

[LL22b] Yimin Lou and Christoph Lehrenfeld. Isoparametric unfitted BDF–Finite element method for PDEs on evolving domains. *SIAM Journal on Numerical Analysis*, 60(4):2069–2098, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M142126X`.

Li:2022:SVS

[LlL22] Zhaoyi Li and Hong lin Liao. Stability of variable-step BDF2 and BDF3 methods. *SIAM Journal on Numerical Analysis*, 60(4):2253–2272, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1462398`.

Liao:2023:DGS

[lLLL23] Hong lin Liao, Nan Liu, and Pin Lyu. Discrete gradient structure of a second-order variable-step method for nonlinear integro-differential models. *SIAM Journal on Numerical Analysis*, 61(5):2157–2181, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1520050`.

Li:2023:ESM

[LLMR23] Buyang Li, Yanping Lin, Shu Ma, and Qiqi Rao. An exponential spectral method using VP means for semilinear subdiffusion equations with rough data. *SIAM Journal on Numerical Analysis*, 61(5):2305–2326, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1512041`.

Lu:2021:OFD

[LLS21] Jianfang Lu, Yong Liu, and Chi-Wang Shu. An oscillation-free discontinuous Galerkin method for scalar hyperbolic conservation laws. *SIAM Journal on Numerical Analysis*, 59 (3):1299–1324, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Liao:2020:ESM

[lLTZ20] Hong lin Liao, Tao Tang, and Tao Zhou. On energy stable, maximum-principle preserving, second-order BDF scheme with variable steps for the Allen–Cahn equation. *SIAM Journal on Numerical Analysis*, 58(4):2294–2314, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Liu:2022:NPF

[LLZZ22] Shu Liu, Wuchen Li, Hongyuan Zha, and Haomin Zhou. Neural parametric Fokker–Planck equation. *SIAM Journal on Numerical Analysis*, 60 (3):1385–1449, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/20M1344986`.

Li:2022:ECQ

[LM22a] Buyang Li and Shu Ma. Exponential convolution quadrature for nonlinear subdiffusion equations with nonsmooth initial data. *SIAM Journal on Numerical Analysis*, 60(2):503–528, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1421386`.

Li:2022:NMI

[LM22b] Shukai Li and Sanjay Mehrotra. Numerical methods for integral equations of the second kind with NonSmooth solutions of bounded variation. *SIAM Journal on Numerical Analysis*, 60(5):2751–2780, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1480422`.

Lundquist:2023:MLF

[LMN23] Tomas Lundquist, Arnaud G. Malan, and Jan Nordström. A method-of-lines framework for energy stable arbitrary Lagrangian–Eulerian methods.

SIAM Journal on Numerical Analysis, 61(5):2327–2351, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1514945`.

Liu:2023:CDS

[LMR23] Chen Liu, Rami Masri, and Beatrice Riviere. Convergence of a decoupled splitting scheme for the Cahn–Hilliard–Navier–Stokes system. *SIAM Journal on Numerical Analysis*, 61(6):2651–2694, November 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Li:2022:SIE

[LMS22] Buyang Li, Shu Ma, and Katharina Schratz. A semi-implicit exponential low-regularity integrator for the Navier–Stokes equations. *SIAM Journal on Numerical Analysis*, 60(4):2273–2292, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1437007`.

Leclerc:2020:LDC

[LMSS20] Hugo Leclerc, Quentin Mérigot, Filippo Santambrogio, and Federico Stra. Lagrangian discretization of crowd motion and linear diffusion. *SIAM Journal on Numerical Analysis*, 58(4):2093–2118, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Liu:2023:PAS

[LO23] Sifan Liu and Art B. Owen. Preintegration via active subspace. *SIAM Journal on Numerical Analysis*, 61(2):495–514, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1479129`.

Leimkuhler:2024:CCR

[LPW24] Benedict J. Leimkuhler, Daniel Paulin, and Peter A. Whalley. Contraction and convergence rates for discretized kinetic Langevin dynamics. *SIAM Journal on Numerical Analysis*, 62(3):1226–1258, May 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Lederer:2020:PRE

[LR20] Philip L. Lederer and Sander Rhebergen. A pressure-robust embedded discontinuous Galerkin method for the Stokes problem by reconstruction operators. *SIAM Journal on Numerical Analysis*, 58(5):2915–2933, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Lu:2022:AIO

[LRK22] Peipei Lu, Andreas Rupp, and Guido Kanschat. Analysis

of injection operators in geometric multigrid solvers for HDG methods. *SIAM Journal on Numerical Analysis*, 60(4):2293–2317, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1400110`.

Li:2020:EAS

[LS20a] Xiaoli Li and Jie Shen. Error analysis of the SAV–MAC scheme for the Navier–Stokes equations. *SIAM Journal on Numerical Analysis*, 58(5):2465–2491, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Locke:2020:NPO

[LS20b] Sarah Locke and John Singler. New proper orthogonal decomposition approximation theory for PDE solution data. *SIAM Journal on Numerical Analysis*, 58(6):3251–3285, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Li:2022:CNS

[LS22] Yang Li and Bangwei She. On convergence of numerical solutions for the compressible MHD system with exactly divergence-free magnetic field. *SIAM Journal on Numerical Analysis*, 60(4):2182–2202, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1431011`.

Loscher:2024:STF

[LS24] Richard Löscher and Olaf Steinbach. Space-time finite element methods for distributed optimal control of the wave equation. *SIAM Journal on Numerical Analysis*, 62(1):452–475, February 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Langer:2021:STF

[LSTY21] Ulrich Langer, Olaf Steinbach, Fredi Tröltzsch, and Huidong Yang. Space-time finite element discretization of parabolic optimal control problems with energy regularization. *SIAM Journal on Numerical Analysis*, 59(2):675–695, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Leng:2021:ACR

[LTTF21] Yu Leng, Xiaochuan Tian, Nathaniel Trask, and John T. Foster. Asymptotically compatible reproducing kernel collocation and meshfree integration for nonlocal diffusion. *SIAM Journal on Numerical Analysis*, 59(1):88–118, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Li:2020:SOS

[LUZ20] Buyang Li, Yuki Ueda, and Guanyu Zhou. A second-order stabilization method for linearizing and decoupling nonlinear parabolic systems. *SIAM Journal on Numerical Analysis*, 58(5):2736–2763, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Li:2023:SHO

[LWC23] Shishun Li, Jing-Yuan Wang, and Xiao-Chuan Cai. *A*-stable high-order block implicit methods for parabolic equations. *SIAM Journal on Numerical Analysis*, 61 (4):1858–1884, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/22M152880X`.

Li:2022:SEA

[LWS22] Xiaoli Li, Weilong Wang, and Jie Shen. Stability and error analysis of IMEX SAV schemes for the magneto-hydrodynamic equations. *SIAM Journal on Numerical Analysis*, 60(3): 1026–1054, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1430376`.

Liu:2022:CAV

[LWWW22] Chun Liu, Cheng Wang, Yiwei Wang, and Steven M. Wise. Convergence analysis of the variational operator splitting scheme for a reaction–diffusion system with detailed balance. *SIAM Journal on Numerical Analysis*, 60(2):781–803, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1421283`.

Li:2020:CLL

[LWX20] Buyang Li, Jilu Wang, and Liwei Xu. A convergent linearized Lagrange finite element method for the magneto-hydrodynamic equations in two-dimensional nonsmooth and nonconvex domains. *SIAM Journal on Numerical Analysis*, 58(1):430–459, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Liang:2024:TLB

[LWX24] Qigang Liang, Wei Wang, and Xuejun Xu. A two-level block preconditioned Jacobi–Davidson method for multiple and clustered eigenvalues of elliptic operators. *SIAM Journal on Numerical Analysis*, 62 (2):998–1019, April 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Lyu:2020:CAS

[LWXZ20] Junlong Lyu, Zhongjian Wang, Jack Xin, and Zhiwen Zhang.

Convergence analysis of stochastic structure-preserving schemes for computing effective diffusivity in random flows. *SIAM Journal on Numerical Analysis*, 58(5):3040–3067, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Lyu:2022:CIP

[LWXZ22] Junlong Lyu, Zhongjian Wang, Jack Xin, and Zhiwen Zhang. A convergent interacting particle method and computation of KPP front speeds in chaotic flows. *SIAM Journal on Numerical Analysis*, 60(3):1136–1167, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1410786`.

Li:2023:MCG

[LWY23] Qin Li, Li Wang, and Yunan Yang. Monte Carlo gradient in optimization constrained by radiative transport equation. *SIAM Journal on Numerical Analysis*, 61(6):2744–2774, November 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Li:2020:LTA

[LWZ20] Buyang Li, Kai Wang, and Zhi Zhou. Long-time accurate symmetrized implicit-explicit BDF methods for a class of parabolic equations with non-self-adjoint operators. *SIAM Journal on Numerical Analysis*, 58(1):189–210, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Li:2023:GTE

[LWZ23] Bing Li, Yifei Wu, and Xiaofei Zhao. Gauge-transformed exponential integrator for generalized KdV equations with rough data. *SIAM Journal on Numerical Analysis*, 61(4):1689–1715, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1530501`.

Liang:2023:TLP

[LX23] Qigang Liang and Xuejun Xu. A two-level preconditioned Helmholtz subspace iterative method for Maxwell eigenvalue problems. *SIAM Journal on Numerical Analysis*, 61(2):642–674, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1392012`.

Li:2020:SLS

[LY20] Ruo Li and Fanyi Yang. A sequential least squares method for Poisson equation using a patch reconstructed space. *SIAM Journal on Numerical Analysis*, 58(1):353–374, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Li:2023:OCN

[LYC23] Yangrong Li, Shuang Yang, and Tomás Caraballo. Optimization and convergence of numerical attractors for discrete-time quasi-linear lattice system. *SIAM Journal on Numerical Analysis*, 61(2):905–928, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1461642`.

Li:2023:AAT

[LZ23] Jichun Li and Li Zhu. Analysis and application of two novel finite element methods for solving Ziolkowski's PML model in the integro-differential form. *SIAM Journal on Numerical Analysis*, 61(5):2209–2236, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1506936`.

Luo:2022:CAD

[LZCZ22] Yue Luo, Xiangcheng Zheng, Xiangle Cheng, and Lei Zhang. Convergence analysis of discrete high-index saddle dynamics. *SIAM Journal on Numerical Analysis*, 60 (5):2731–2750, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1487965`.

Li:2020:DGM

[LZM+20] Jia Li, Dazhi Zhang, Xiong Meng, Boying Wu, and Qiang Zhang. Discontinuous Galerkin methods for nonlinear scalar conservation laws: Generalized local Lax–Friedrichs numerical fluxes. *SIAM Journal on Numerical Analysis*, 58(1):1–20, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Maier:2021:HOA

[Mai21] Roland Maier. A high-order approach to elliptic multiscale problems with general unstructured coefficients. *SIAM Journal on Numerical Analysis*, 59 (2):1067–1089, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Ma:2020:ECG

[MCL20] Chupeng Ma, Liqun Cao, and Yanping Lin. Energy conserving Galerkin finite element methods for the Maxwell–Klein–Gordon system. *SIAM Journal on Numerical Analysis*, 58(2):1339–1366, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Metzger:2021:ECF

[Met21] Stefan Metzger. An efficient and convergent finite element scheme for Cahn–Hilliard equations with dynamic boundary conditions.

SIAM Journal on Numerical Analysis, 59(1):219–248, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Mlinaric:2023:UFI

[MG23] Petar Mlinarić and Serkan Gugercin. A unifying framework for interpolatory L2-optimal reduced-order modeling. *SIAM Journal on Numerical Analysis*, 61(5):2133–2156, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1516920`.

Manns:2020:MSR

[MK20] Paul Manns and Christian Kirches. MultiDimensional sum-up rounding for elliptic control systems. *SIAM Journal on Numerical Analysis*, 58 (6):3427–3447, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Medeiros:2021:SOF

[MNO21] Debora D. Medeiros, Hirofumi Notsu, and Cassio M. Oishi. Second-order finite difference approximations of the upper-convected time derivative. *SIAM Journal on Numerical Analysis*, 59(6):2955–2988, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Mohamad:2021:NIF

[MO21] Haidar Mohamad and Marcel Oliver. Numerical integration of functions of a rapidly rotating phase. *SIAM Journal on Numerical Analysis*, 59(4): 2310–2319, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Miraci:2020:MAE

[MPV20] Ani Miraçi, Jan Papez, and Martin Vohralík. A multilevel algebraic error estimator and the corresponding iterative solver with p-robust behavior. *SIAM Journal on Numerical Analysis*, 58(5):2856–2884, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Ma:2023:ESM

[MQ23] Limin Ma and Zhonghua Qiao. An energy stable and maximum bound principle preserving scheme for the dynamic Ginzburg–Landau equations under the temporal gauge. *SIAM Journal on Numerical Analysis*, 61(6):2695–2717, November 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Mishra:2021:EAD

[MR21] Siddhartha Mishra and T. Konstantin Rusch. Enhancing accuracy of deep learning algorithms by training with low-discrepancy sequences. *SIAM*

Journal on Numerical Analysis, 59(3):1811–1834, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Muga:2023:ASM

[MRV23] Ignacio Muga, Sergio Rojas, and Patrick Vega. An adaptive superconvergent mixed finite element method based on local residual minimization. *SIAM Journal on Numerical Analysis*, 61(5):2084–2105, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1526307`.

Meyer:2020:PEA

[MS20] Christian Meyer and Michael Sievers. A priori error analysis of local incremental minimization schemes for rate-independent evolutions. *SIAM Journal on Numerical Analysis*, 58(4):2376–2403, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Madureira:2021:HLS

[MS21] Alexandre L. Madureira and Marcus Sarkis. Hybrid localized spectral decomposition for multiscale problems. *SIAM Journal on Numerical Analysis*, 59(2):829–863, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Marcati:2023:ECD

[MS23] Carlo Marcati and Christoph Schwab. Exponential convergence of deep operator networks for elliptic partial differential equations. *SIAM Journal on Numerical Analysis*, 61(3):1513–1545, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1465718`.

Ma:2022:NDA

[MSD22] Chupeng Ma, Robert Scheichl, and Tim Dodwell. Novel design and analysis of generalized finite element methods based on locally optimal spectral approximations. *SIAM Journal on Numerical Analysis*, 60(1):244–273, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1406179`.

Muller:2020:OOF

[MSS20] Stefan Müller, Florian Schweiger, and Endre Süli. Optimal-order finite difference approximation of generalized solutions to the biharmonic equation in a cube. *SIAM Journal on Numerical Analysis*, 58(1):298–329, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Melenk:2020:WEA

[MST20] Jens M. Melenk, Stefan A. Sauter, and Céline Torres. Wavenumber explicit analysis for Galerkin discretizations of lossy Helmholtz problems. *SIAM Journal on Numerical Analysis*, 58(4):2119–2143, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Mardal:2022:RPE

[MST22] Kent-Andre Mardal, Jarle Sogn, and Stefan Takacs. Robust preconditioning and error estimates for optimal control of the convection–diffusion–reaction equation with limited observation in isogeometric analysis. *SIAM Journal on Numerical Analysis*, 60(1):195–221, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M139147X`.

Maire:2020:WCS

[MT20] P.-H. Maire and N. Therme. Weak consistency of a staggered finite volume scheme for Lagrangian hydrodynamics. *SIAM Journal on Numerical Analysis*, 58(3):1592–1612, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Mu:2020:URW

[Mu20] Lin Mu. A uniformly robust $H(\mathrm{DIV})$ weak Galerkin finite element methods for Brinkman problems. *SIAM Journal on Numerical Analysis*, 58(3):1422–1439, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Manns:2022:SNM

[MU22] Paul Manns and Stefan Ulbrich. A simplified Newton method to generate snapshots for POD models of semilinear optimal control problems. *SIAM Journal on Numerical Analysis*, 60(5):2807–2833, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1439821`.

Mustapha:2020:AFR

[Mus20] Kassem Mustapha. An L_1 approximation for a fractional reaction–diffusion equation, a second-order error analysis over time-graded meshes. *SIAM Journal on Numerical Analysis*, 58(2):1319–1338, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Muga:2020:DLP

[MvdZ20] Ignacio Muga and Kristoffer G. van der Zee. Discretization of linear problems in Banach spaces: Residual minimization, nonlinear Petrov–Galerkin, and monotone mixed methods. *SIAM Journal on Numerical Anal-*

ysis, 58(6):3406–3426, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Ma:2022:FOU

[MZZ22] Chuwen Ma, Qinghai Zhang, and Weiying Zheng. A fourth-order unfitted characteristic finite element method for solving the advection–diffusion equation on time-varying domains. *SIAM Journal on Numerical Analysis*, 60(4):2203–2224, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1483475`.

Nie:2022:UCA

[ND22] Daxin Nie and Weihua Deng. A unified convergence analysis for the fractional diffusion equation driven by fractional Gaussian noise with Hurst index $H \in (0, 1)$. *SIAM Journal on Numerical Analysis*, 60(3):1548–1573, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1422616`.

Nordstrom:2020:NBC

[NH20] Jan Nordström and Thomas M. Hagstrom. The number of boundary conditions for initial boundary value problems. *SIAM Journal on Numerical Analysis*, 58(5):2818–2828, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Ni:2021:ALR

[Ni21] Angxiu Ni. Approximating linear response by nonintrusive shadowing algorithms. *SIAM Journal on Numerical Analysis*, 59(6):2843–2865, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Neilan:2021:DFS

[NO21] Michael Neilan and Baris Otus. Divergence-free Scott–Vogelius elements on curved domains. *SIAM Journal on Numerical Analysis*, 59(2):1090–1116, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Noelle:2022:CBC

[NPT22] Sebastian Noelle, Martin Parisot, and Tabea Tscherpel. A class of boundary conditions for time-discrete Green–Naghdi equations with bathymetry. *SIAM Journal on Numerical Analysis*, 60(5):2681–2712, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1426031`.

Novo:2021:EAP

[NR21] Julia Novo and Samuele Rubino. Error analysis of proper

orthogonal decomposition stabilized methods for incompressible flows. *SIAM Journal on Numerical Analysis*, 59 (1):334–369, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Nochetto:2022:GCP

[NRY22] Ricardo H. Nochetto, Michele Ruggeri, and Shuo Yang. Gamma-convergent projection-free finite element methods for nematic liquid crystals: The Ericksen model. *SIAM Journal on Numerical Analysis*, 60(2):856–887, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1407495`.

Nie:2022:SCO

[NSD22] Daxin Nie, Jing Sun, and Weihua Deng. Strong convergence order for the scheme of fractional diffusion equation driven by fractional Gaussian noise. *SIAM Journal on Numerical Analysis*, 60 (4):1879–1904, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/20M1356270`.

Nakatsukasa:2021:ELB

[NT21a] Yuji Nakatsukasa and Alex Townsend. Error localization of best L_1 polynomial approximants. *SIAM Journal on Numerical Analysis*, 59(1):314–333, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Nakatsukasa:2021:RLA

[NT21b] Yuji Nakatsukasa and Lloyd N. Trefethen. Reciprocal-log approximation and planar PDE solvers. *SIAM Journal on Numerical Analysis*, 59(6):2801–2822, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Ning:2022:EET

[NWZ22] Cui Ning, Yifei Wu, and Xiaofei Zhao. An embedded exponential-type low-regularity integrator for mKdV equation. *SIAM Journal on Numerical Analysis*, 60 (3):999–1025, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1408166`.

Ohsawa:2023:PQI

[Ohs23] Tomoki Ohsawa. Preservation of quadratic invariants by semiexplicit symplectic integrators for nonseparable Hamiltonian systems. *SIAM Journal on Numerical Analysis*, 61(3):1293–1315, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1517718`.

Owen:2024:GCS

[OP24] Art B. Owen and Zexin Pan. Gain coefficients for scrambled Halton points. *SIAM Journal on Numerical Analysis*, 62(3): 1021–1038, May 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Osborne:2024:ANA

[OS24] Yohance A. P. Osborne and Iain Smears. Analysis and numerical approximation of stationary second-order mean field game partial differential inclusions. *SIAM Journal on Numerical Analysis*, 62(1): 138–166, January 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Ostermann:2023:EER

[OSV23] Alexander Ostermann, Fardin Saedpanah, and Nasrin Vaisi. Explicit exponential Runge–Kutta methods for semilinear integro-differential equations. *SIAM Journal on Numerical Analysis*, 61(3):1405–1425, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1504056`.

Otarola:2022:FSO

[Otá22] Enrique Otárola. Fractional semilinear optimal control: Optimality conditions, convergence, and error analysis. *SIAM Journal on Numerical Analysis*, 60(1):1–27, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/20M1356294`.

Papadopoulos:2022:NAD

[Pap22] Ioannis P. A. Papadopoulos. Numerical analysis of a discontinuous Galerkin method for the Borrvall–Petersson topology optimization problem. *SIAM Journal on Numerical Analysis*, 60(5):2538–2564, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1438943`.

Park:2020:ASM

[Par20] Jongho Park. Additive Schwarz methods for convex optimization as gradient methods. *SIAM Journal on Numerical Analysis*, 58(3):1495–1530, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Peng:2021:SEA

[PCQL21] Zhichao Peng, Yingda Cheng, Jing-Mei Qiu, and Fengyan Li. Stability-enhanced AP IMEX1-LDG method: Energy-based stability and rigorous AP property. *SIAM Journal on Numerical Analysis*, 59(2): 925–954, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Pareschi:2022:MPF

[PR22] Lorenzo Pareschi and Thomas Rey. Moment preserving Fourier–Galerkin spectral methods and application to the Boltzmann equation. *SIAM Journal on Numerical Analysis*, 60(6):3216–3240, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1423452`.

Pradovera:2020:IRM

[Pra20] Davide Pradovera. Interpolatory rational model order reduction of parametric problems lacking uniform inf–sup stability. *SIAM Journal on Numerical Analysis*, 58(4):2265–2293, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Peszynska:2020:ASC

[PS20] Małgorzata Peszynska and Ralph E. Showalter. Approximation of scalar conservation law with hysteresis. *SIAM Journal on Numerical Analysis*, 58(2):962–987, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Potts:2021:AHD

[PS21] Daniel Potts and Michael Schmischke. Approximation of high-dimensional periodic functions with Fourier-based methods. *SIAM Journal on Numerical Analysis*, 59(5):2393–2429, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Perrin:2022:NSS

[PS22] Charlotte Perrin and Khaled Saleh. Numerical staggered schemes for the free-congested Navier–Stokes equations. *SIAM Journal on Numerical Analysis*, 60(4):1824–1852, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1436488`.

Parker:2024:SLP

[PS24] Charles Parker and Endre Süli. Stable lifting of polynomial traces on triangles. *SIAM Journal on Numerical Analysis*, 62(2):692–717, March 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Przybylowicz:2022:EAS

[PSS22] Paweł Przybyłowicz, Michał Sobieraj, and Lukasz Stepień. Efficient approximation of SDEs driven by countably dimensional Wiener process and Poisson random measure. *SIAM Journal on Numerical Analysis*, 60(2):824–855, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https:`

//epubs.siam.org/doi/10.1137/21M1442747.

Pozharska:2022:NSR

[PU22] Kateryna Pozharska and Tino Ullrich. A note on sampling recovery of multivariate functions in the uniform norm. *SIAM Journal on Numerical Analysis*, 60(3):1363–1384, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL https://epubs.siam.org/doi/10.1137/21M1410580.

Qian:2021:FMG

[QS21] Jianliang Qian and Chao Song. Fast multiscale Gaussian beam method for three-dimensional elastic wave equations in bounded domains. *SIAM Journal on Numerical Analysis*, 59(5):2536–2570, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Qi:2020:EES

[QW20] Ruisheng Qi and Xiaojie Wang. Error estimates of semidiscrete and fully discrete finite element methods for the Cahn–Hilliard–Cook equation. *SIAM Journal on Numerical Analysis*, 58(3):1613–1653, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Quan:2023:NSC

[QW23] Chaoyu Quan and Xu Wu. H^1-norm stability and convergence of an L2-type method on nonuniform meshes for subdiffusion equation. *SIAM Journal on Numerical Analysis*, 61(5):2106–2132, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL https://epubs.siam.org/doi/10.1137/22M1506468.

Qin:2022:VTS

[QWL22] Yi Qin, Yongshuai Wang, and Jian Li. A variable time step time filter algorithm for the geothermal system. *SIAM Journal on Numerical Analysis*, 60(5):2781–2806, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL https://epubs.siam.org/doi/10.1137/21M1464828.

Qiu:2020:AFO

[QZ20] Weifeng Qiu and Shun Zhang. Adaptive first-order system least-squares finite element methods for second-order elliptic equations in nondivergence form. *SIAM Journal on Numerical Analysis*, 58(6):3286–3308, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Ranocha:2020:ESE

[RK20] Hendrik Ranocha and David I. Ketcheson. Energy stability of explicit Runge–Kutta methods for nonautonomous or nonlinear problems. *SIAM Journal on Numerical Analysis*, 58(6):

3382–3405, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Ruggiu:2020:EAS

[RN20] Andrea Alessandro Ruggiu and Jan Nordström. Eigenvalue analysis for summation-by-parts finite difference time discretizations. *SIAM Journal on Numerical Analysis*, 58 (2):907–928, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Reusken:2021:ASD

[RS21a] Arnold Reusken and Benjamin Stamm. Analysis of the Schwarz domain decomposition method for the conductor-like screening continuum model. *SIAM Journal on Numerical Analysis*, 59 (2):769–796, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Rousset:2021:GFL

[RS21b] Frédéric Rousset and Katharina Schratz. A general framework of low regularity integrators. *SIAM Journal on Numerical Analysis*, 59(3):1735–1768, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Rumpf:2022:FEA

[RSS22] Martin Rumpf, Stefan Simon, and Christoph Smoch. Finite element approximation of large-scale isometric deformations of parametrized surfaces. *SIAM Journal on Numerical Analysis*, 60(5):2945–2962, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1455292`.

Rubino:2020:NAP

[Rub20] Samuele Rubino. Numerical analysis of a projection-based stabilized POD-ROM for incompressible flows. *SIAM Journal on Numerical Analysis*, 58(4):2019–2058, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Rieger:2024:ACD

[RW24] Christian Rieger and Holger Wendland. On the approximability and curse of dimensionality of certain classes of high-dimensional functions. *SIAM Journal on Numerical Analysis*, 62(2):842–871, March 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Sharan:2022:TSS

[SBL22] Nek Sharan, Peter T. Brady, and Daniel Livescu. Time stability of strong boundary conditions in finite-difference schemes for hyperbolic systems. *SIAM Journal on Numerical Analysis*, 60(3): 1331–1362, ???? 2022.

CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL https://epubs.siam.org/doi/10.1137/21M1419957.

Shao:2023:CAN

[SC23a] Nian Shao and Wenbin Chen. Convergence analysis of Newton–Schur method for symmetric elliptic eigenvalue problem. *SIAM Journal on Numerical Analysis*, 61(1):315–342, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL https://epubs.siam.org/doi/10.1137/21M1448847.

Shi:2023:HOB

[SC23b] Jiankang Shi and Minghua Chen. High-order BDF convolution quadrature for subdiffusion models with a singular source term. *SIAM Journal on Numerical Analysis*, 61(6):2559–2579, November 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Scheel:2023:NEM

[Sch23] Arnd Scheel. Nonlinear eigenvalue methods for linear pointwise stability of nonlinear waves. *SIAM Journal on Numerical Analysis*, 61(2):592–616, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL https://epubs.siam.org/doi/10.1137/22M1492969.

Sarna:2020:CAG

[SGT20] Neeraj Sarna, Jan Giesselmann, and Manuel Torrilhon. Convergence analysis of Grad's Hermite expansion for linear kinetic equations. *SIAM Journal on Numerical Analysis*, 58(2):1164–1194, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Scholz:2021:UHO

[SJ21] Felix Scholz and Bert Jüttler. Using high-order transport theorems for implicitly defined moving curves to perform quadrature on planar domains. *SIAM Journal on Numerical Analysis*, 59(4):2138–2162, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Sprekeler:2024:HNF

[Spr24] Timo Sprekeler. Homogenization of nondivergence-form elliptic equations with discontinuous coefficients and finite element approximation of the homogenized problem. *SIAM Journal on Numerical Analysis*, 62(2):646–666, March 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Sonner:2020:SOP

[SR20] Florian Sonner and Thomas Richter. Second order pressure estimates for the Crank–Nicolson discretization of the

incompressible Navier–Stokes equations. *SIAM Journal on Numerical Analysis*, 58(1): 375–409, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Sheng:2020:FFL

[SST+20] Changtao Sheng, Jie Shen, Tao Tang, Li-Lian Wang, and Huifang Yuan. Fast Fourier-like mapped Chebyshev spectral-Galerkin methods for PDEs with integral fractional Laplacian in unbounded domains. *SIAM Journal on Numerical Analysis*, 58(5):2435–2464, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Sheng:2023:EMC

[SSX23] Changtao Sheng, Bihao Su, and Chenglong Xu. Efficient Monte Carlo method for integral fractional Laplacian in multiple dimensions. *SIAM Journal on Numerical Analysis*, 61(5):2035–2061, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1504706`.

Shi:2023:EDD

[SSZ23] Feng Shi, Yizhong Sun, and Haibiao Zheng. Ensemble domain decomposition algorithm for the fully mixed random Stokes–Darcy model with the Beavers–Joseph interface conditions. *SIAM Journal on Numerical Analysis*, 61 (3):1482–1512, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1482846`.

Stamm:2022:QOF

[ST22] Benjamin Stamm and Lambert Theisen. A quasi-optimal factorization preconditioner for periodic Schrödinger eigenstates in anisotropically expanding domains. *SIAM Journal on Numerical Analysis*, 60(5):2508–2537, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1456005`.

Storn:2020:CLC

[Sto20] Johannes Storn. Computation of the LBB constant for the Stokes equation with a least-squares finite element method. *SIAM Journal on Numerical Analysis*, 58(1):86–108, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Sun:2021:ALO

[Sun21] Weiwei Sun. Analysis of lowest-order characteristics-mixed FEMs for incompressible miscible flow in porous media. *SIAM Journal on Numerical Analysis*, 59(4):1875–1895,

???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Schluchtermann:2023:NSF

[SW23] Georg Schlüchtermann and Michael Wibmer. Numerical solution of free stochastic differential equations. *SIAM Journal on Numerical Analysis*, 61(6):2623–2650, November 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Sun:2022:ELS

[SWW22] Zheng Sun, Yuanzhe Wei, and Kailiang Wu. On energy laws and stability of Runge–Kutta methods for linear seminegative problems. *SIAM Journal on Numerical Analysis*, 60(5):2448–2481, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1472218`.

Sun:2020:FEA

[SWZ20] Ting Sun, Jilu Wang, and Chunxiong Zheng. Fast evaluation of artificial boundary conditions for advection diffusion equations. *SIAM Journal on Numerical Analysis*, 58(6): 3530–3557, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Shao:2020:BRW

[SX20a] Sihong Shao and Yunfeng Xiong. Branching random walk solutions to the Wigner equation. *SIAM Journal on Numerical Analysis*, 58(5): 2589–2608, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Shen:2020:UBP

[SX20b] Jie Shen and Jie Xu. Unconditionally bound preserving and energy dissipative schemes for a class of Keller–Segel equations. *SIAM Journal on Numerical Analysis*, 58(3):1674–1695, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Serna:2020:CRK

[SZ20] J. M. Sanz Serna and K. C. Zygalakis. Contractivity of Runge–Kutta methods for convex gradient systems. *SIAM Journal on Numerical Analysis*, 58(4):2079–2092, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Serna:2021:CBL

[SZ21a] J. M. Sanz Serna and K. C. Zygalakis. The connections between Lyapunov functions for some optimization algorithms and differential equations. *SIAM Journal on Numerical Analysis*, 59(3):1542–1565, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Sharma:2021:NSS

[SZ21b] Upanshu Sharma and Wei Zhang. NonReversible sampling schemes on submanifolds. *SIAM Journal on Numerical Analysis*, 59(6):2989–3031, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Takeda:2023:GEH

[TS23] Kota Takeda and Takashi Sakajo. Geometric ergodicity for Hamiltonian Monte Carlo on compact manifolds. *SIAM Journal on Numerical Analysis*, 61(6):2994–3013, December 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Tai:2023:UPN

[TWZZ23] Xue-Cheng Tai, Ragnar Winther, Xiaodi Zhang, and Weiying Zheng. A uniform preconditioner for a Newton algorithm for total variation minimization and minimum-surface problems. *SIAM Journal on Numerical Analysis*, 61(5):2062–2083, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1512776`.

Vaccaro:2023:AOD

[VL23] Jennifer Vaccaro and Konstantin Lipnikov. Applying an oriented divergence theorem to swept face remap. *SIAM Journal on Numerical Analysis*, 61(5):2285–2304, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1518359`.

vonWahl:2023:EAP

[vWR23] Henry von Wahl and Thomas Richter. Error analysis for a parabolic PDE model problem on a coupled moving domain in a fully Eulerian framework. *SIAM Journal on Numerical Analysis*, 61(1):286–314, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1458417`.

Wang:2023:AEL

[Wan23] Haiyong Wang. Analysis of error localization of Chebyshev spectral approximations. *SIAM Journal on Numerical Analysis*, 61(2):952–972, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1481452`.

Wu:2021:EAE

[WB21] Yongke Wu and Yanhong Bai. Error analysis of energy-preserving mixed finite element methods for the Hodge wave equation. *SIAM Journal on Numerical Analysis*, 59(3):1433–1454, ???? 2021. CODEN SJNAAM. ISSN 0036-

1429 (print), 1095-7170 (electronic).

Wei:2021:PDF

[WHL21] Huayi Wei, Xuehai Huang, and Ao Li. Piecewise divergence-free nonconforming virtual elements for Stokes problem in any dimensions. *SIAM Journal on Numerical Analysis*, 59 (3):1835–1856, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Wu:2023:PPC

[WJS23] Kailiang Wu, Haili Jiang, and Chi-Wang Shu. Provably positive central discontinuous Galerkin schemes via geometric quasilinearization for ideal MHD equations. *SIAM Journal on Numerical Analysis*, 61(1):250–285, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1486996`.

Wang:2023:FDD

[WK23] Siyang Wang and Gunilla Kreiss. A finite difference-discontinuous Galerkin method for the wave equation in second order form. *SIAM Journal on Numerical Analysis*, 61(4):1962–1988, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1530690`.

Wan:2020:PEE

[WL20] Andy T. S. Wan and Marc Laforest. A posteriori error estimation for the p-curl problem. *SIAM Journal on Numerical Analysis*, 58(1):460–491, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Wang:2023:ESP

[WL23] Wansheng Wang and Shoufu Li. Efficient stability-preserving numerical methods for nonlinear coercive problems in vector space. *SIAM Journal on Numerical Analysis*, 61(2):872–904, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1443273`.

Wu:2023:AFT

[WLF23] Jilian Wu, Ning Li, and Xinlong Feng. Analysis of a filtered time-stepping finite element method for natural convection problems. *SIAM Journal on Numerical Analysis*, 61(2):837–871, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1451476`.

Wagner:2021:EAP

[WLPU21] Fabian Wagner, Jonas Latz, Iason Papaioannou, and Elisabeth Ullmann. Error analysis for probabilities of rare

events with approximate models. *SIAM Journal on Numerical Analysis*, 59(4):1948–1975, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Wu:2023:UTQ

[WM23] Bowei Wu and Per-Gunnar Martinsson. A unified trapezoidal quadrature method for singular and hypersingular boundary integral operators on curved surfaces. *SIAM Journal on Numerical Analysis*, 61(5):2182–2208, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1520372`.

Wormell:2021:SCD

[WR21] Caroline L. Wormell and Sebastian Reich. Spectral convergence of diffusion maps: Improved error bounds and an alternative normalization. *SIAM Journal on Numerical Analysis*, 59(3):1687–1734, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Wang:2023:OLT

[WS23] Dongling Wang and Martin Stynes. Optimal long-time decay rate of numerical solutions for nonlinear time-fractional evolutionary equations. *SIAM Journal on Numerical Analysis*, 61(5):2011–2034, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1494361`.

Weidling:2020:OCR

[WSH20] Frederic Weidling, Benjamin Sprung, and Thorsten Hohage. Optimal convergence rates for Tikhonov regularization in Besov spaces. *SIAM Journal on Numerical Analysis*, 58(1):21–47, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Wang:2020:PDW

[WW20] Chunmei Wang and Junping Wang. A primal-dual weak Galerkin finite element method for Fokker–Planck type equations. *SIAM Journal on Numerical Analysis*, 58(5):2632–2661, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Wu:2020:SAF

[WX20] Shuonan Wu and Jinchao Xu. Simplex-averaged finite element methods for $H(\text{grad})$, $H(\text{curl})$, and $H(\text{div})$ convection–diffusion problems. *SIAM Journal on Numerical Analysis*, 58(1):884–906, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Wei:2020:CAP

[WYZ20a] Changkun Wei, Jiaqing Yang,

and Bo Zhang. Convergence analysis of the PML method for time-domain electromagnetic scattering problems. *SIAM Journal on Numerical Analysis*, 58(3):1918–1940, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Winckler:2020:AEE

[WYZ20b] Malte Winckler, Irwin Yousept, and Jun Zou. Adaptive edge element approximation for $H(\mathrm{curl})$ elliptic variational inequalities of second kind. *SIAM Journal on Numerical Analysis*, 58(3):1941–1964, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Wang:2024:EAF

[WYZ24] Li-Lian Wang, Jingye Yan, and Xiaolong Zhang. Error analysis of a first-order IMEX scheme for the logarithmic Schrödinger equation. *SIAM Journal on Numerical Analysis*, 62(1):119–137, January 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Wang:2020:HOT

[WZ20] Kai Wang and Zhi Zhou. High-order time stepping schemes for semilinear subdiffusion equations. *SIAM Journal on Numerical Analysis*, 58(6):3226–3250, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Wang:2021:EES

[WZ21] Bin Wang and Xiaofei Zhao. Error estimates of some splitting schemes for charged-particle dynamics under strong magnetic field. *SIAM Journal on Numerical Analysis*, 59(4):2075–2105, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Wang:2023:GTS

[WZ23] Bin Wang and Xiaofei Zhao. Geometric two-scale integrators for highly oscillatory system: Uniform accuracy and near conservations. *SIAM Journal on Numerical Analysis*, 61(3):1246–1277, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1462908`.

Wang:2022:SSB

[WZZ22] Xu Wang, Weidong Zhao, and Tao Zhou. Sinc-θ schemes for backward stochastic differential equations. *SIAM Journal on Numerical Analysis*, 60(4):1799–1823, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1444679`.

Xiang:2021:CRS

[Xia21] Shuhuang Xiang. Convergence rates on spectral orthogonal projection approximation for functions of algebraic and logarithmatic regularities. *SIAM Journal on Numerical Analysis*, 59(3):1374–1398, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Xiong:2024:CCD

[XLZZ24] Zhe Xiong, Lei Li, Ya-Nan Zhu, and Xiaoqun Zhang. On the convergence of continuous and discrete unbalanced optimal transport models for 1-Wasserstein distance. *SIAM Journal on Numerical Analysis*, 62(2):749–774, March 2024. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Xu:2020:EEF

[XSZ20] Yuan Xu, Chi-Wang Shu, and Qiang Zhang. Error estimate of the fourth-order Runge–Kutta discontinuous Galerkin methods for linear hyperbolic equations. *SIAM Journal on Numerical Analysis*, 58(5):2885–2914, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Xu:2022:CAI

[XZ22] Xuefeng Xu and Chen-Song Zhang. Convergence analysis of inexact two-grid methods: A theoretical framework. *SIAM Journal on Numerical Analysis*, 60(1):133–156, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/20M1356075`.

Ye:2021:CDF

[YC21] Changqing Ye and Junzhi Cui. Convergence of Dziuk's fully discrete linearly implicit scheme for curve shortening flow. *SIAM Journal on Numerical Analysis*, 59(6):2823–2842, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Yu:2021:AAS

[YDS21] Yi Yu, Maksymilian Dryja, and Marcus Sarkis. From additive average Schwarz methods to nonoverlapping spectral additive Schwarz methods. *SIAM Journal on Numerical Analysis*, 59(5):2608–2638, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Yu:2022:PHA

[YHLR22] Xiuchen Yu, Guanghui Hu, Wangtao Lu, and Andreas Rathsfeld. PML and high-accuracy boundary integral equation solver for wave scattering by a locally defected periodic surface. *SIAM Journal on Numerical Analysis*, 60(5):2592–2625, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170

(electronic). URL https://epubs.siam.org/doi/10.1137/21M1439705.

Yi:2022:LFE

[YLZ22] Son-Young Yi, Sanghyun Lee, and Ludmil Zikatanov. Locking-free enriched Galerkin method for linear elasticity. *SIAM Journal on Numerical Analysis*, 60(1):52–75, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL https://epubs.siam.org/doi/10.1137/21M1391353.

Ye:2020:SFW

[YZ20] Xiu Ye and Shangyou Zhang. A stabilizer free weak Galerkin method for the biharmonic equation on polytopal meshes. *SIAM Journal on Numerical Analysis*, 58(5):2572–2588, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Yang:2023:PSS

[YZDCNC23] Minglei Yang, Guannan Zhang, Diego Del-Castillo-Negrete, and Yanzhao Cao. A probabilistic scheme for semilinear nonlocal diffusion equations with volume constraints. *SIAM Journal on Numerical Analysis*, 61(6):2718–2743, November 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Yang:2020:UPD

[YZZ20] Jie Yang, Weidong Zhao, and Tao Zhou. A unified probabilistic discretization scheme for FBSDEs: Stability, consistency, and convergence analysis. *SIAM Journal on Numerical Analysis*, 58(4):2351–2375, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Zhao:2021:SDM

[ZCPZ21] Lina Zhao, Eric T. Chung, Eun-Jae Park, and Guanyu Zhou. Staggered DG method for coupling of the Stokes and Darcy–Forchheimer problems. *SIAM Journal on Numerical Analysis*, 59(1):1–31, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Zheng:2020:SEA

[ZDMZ20] Chunxiong Zheng, Qiang Du, Xiang Ma, and Jiwei Zhang. Stability and error analysis for a second-order fast approximation of the local and nonlocal diffusion equations on the real line. *SIAM Journal on Numerical Analysis*, 58(3):1893–1917, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Zaitzeff:2020:VEI

[ZEG20] Alexander Zaitzeff, Selim Esedoáğlu, and Krishna Garikipati. Variational extrapolation of implicit schemes for general gradient flows. *SIAM Journal on Numerical Analysis*, 58(5):2799–2817, ???? 2020. CODEN SJNAAM. ISSN 0036-

1429 (print), 1095-7170 (electronic).

Zhang:2022:ECP

[Zha22] Ruming Zhang. Exponential convergence of perfectly matched layers for scattering problems with periodic surfaces. *SIAM Journal on Numerical Analysis*, 60 (2):804–823, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1439043`.

Zhang:2023:HOC

[Zha23a] Ruming Zhang. Higher-order convergence of perfectly matched layers in three-dimensional biperiodic surface scattering problems. *SIAM Journal on Numerical Analysis*, 61(6):2917–2939, December 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Zhang:2023:SDM

[Zha23b] Ruming Zhang. A spectral decomposition method to approximate Dirichlet-to–Neumann maps in complicated waveguides. *SIAM Journal on Numerical Analysis*, 61(3):1195–1217, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1485425`.

Zhou:2021:NAR

[ZL21] Jiaxin Zhou and Wangtao Lu. Numerical analysis of resonances by a slab of subwavelength slits by Fourier-matching method. *SIAM Journal on Numerical Analysis*, 59 (4):2106–2137, ???? 2021. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Zhang:2023:CAL

[ZN23] Erchuan Zhang and Lyle Noakes. Convergence analysis of leapfrog for geodesics. *SIAM Journal on Numerical Analysis*, 61(5):2261–2284, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1515173`.

Zouraris:2023:EER

[Zou23] Georgios E. Zouraris. Error estimation of the relaxation finite difference scheme for the nonlinear Schrödinger equation. *SIAM Journal on Numerical Analysis*, 61 (1):365–397, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1399130`.

Zhong:2023:SAM

[ZQ23] Xiang Zhong and Weifeng Qiu. Spectral analysis of a mixed method for linear elasticity.

SIAM Journal on Numerical Analysis, 61(4):1885–1917, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/22M148611X`.

Zhang:2023:SNP

[ZRZ23] Yuhong Zhang, Yao Rong, and Haibiao Zheng. A study of numerical pollution of the decoupled algorithm for the convection model in superposed fluid and porous layers. *SIAM Journal on Numerical Analysis*, 61(2):1018–1056, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/22M1469699`.

Zhang:2020:WPF

[ZSH20] Yuhong Zhang, Li Shan, and Yanren Hou. Well-posedness and finite element approximation for the convection model in superposed fluid and porous layers. *SIAM Journal on Numerical Analysis*, 58(1):541–564, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Zheng:2020:EEN

[ZW20a] Xiangcheng Zheng and Hong Wang. An error estimate of a numerical approximation to a hidden-memory variable-order space-time fractional diffusion equation. *SIAM Journal on Numerical Analysis*, 58(5):2492–2514, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Zheng:2020:OON

[ZW20b] Xiangcheng Zheng and Hong Wang. An optimal-order numerical approximation to variable-order space-fractional diffusion equations on uniform or graded meshes. *SIAM Journal on Numerical Analysis*, 58(1):330–352, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Zhang:2022:HOF

[ZW22] Lu Zhang and Siyang Wang. A high order finite difference method for the elastic wave equation in bounded domains with nonconforming interfaces. *SIAM Journal on Numerical Analysis*, 60(3):1516–1547, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1422586`.

Zhou:2023:DAC

[ZW23] Yu Zhou and Haijun Wu. Dispersion analysis of CIP-FEM for the Helmholtz equation. *SIAM Journal on Numerical Analysis*, 61(3):1278–1292, ???? 2023. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M143827X`.

Zhang:2020:ECM

[ZWC20] Wenzhong Zhang, Bo Wang, and Wei Cai. Exponential convergence for multipole and local expansions and their translations for sources in layered media: Two-dimensional acoustic wave. *SIAM Journal on Numerical Analysis*, 58(3): 1440–1468, ???? 2020. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic).

Zhang:2022:EEE

[ZZZ22a] Lei Zhang, Pingwen Zhang, and Xiangcheng Zheng. Error estimates for Euler discretization of high-index saddle dynamics. *SIAM Journal on Numerical Analysis*, 60(5):2925–2944, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1458314`.

Zhang:2022:IPD

[ZZZ22b] Zhengqi Zhang, Zhidong Zhang, and Zhi Zhou. Identification of potential in diffusion equations from terminal observation: Analysis and discrete approximation. *SIAM Journal on Numerical Analysis*, 60(5):2834–2865, ???? 2022. CODEN SJNAAM. ISSN 0036-1429 (print), 1095-7170 (electronic). URL `https://epubs.siam.org/doi/10.1137/21M1446708`.