A Bibliography of Publications about the Fast Multipole Method

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Title word cross-reference

1 [TPKP12]. **$15K** [WGL+98]. 2 [GROZ04, HHL+21, Lab98, Liu08, ON08a, RS94, VGZB09, WYW05, WXQL08]. 3 [BDMN03b, BHR04, BHGR04, CDM98, DDL13, Dar02, GP08, GD03, HLN24, JMC97, LHYS24, NW89, NH97, ON08b, PG94, Pta21, QCG15, Sar03, TCD17, WY05, WLL+07, WZC+17, WZC19, WCZ+20, WZC21a, WZC21b, iYNK02, YB01, ZY05]. **$50/Mflop** [WSB+97]. **$7.3/Mflops** [KFM99]. ^{3} [PG96b]. $h = 0$ [DNS90]. H^2 [HXC21]. K [MG05, CK95b]. $K(x, y) = K(x - y)$ [LX22]. LU [MG07]. m [YRB16]. $\mathbf{R^n}$ [CBN02]. $\mathcal{H}_2$ [Bör23]. N [Aar85, Alu94, APG94, Alu96, AGPS98, AAL+01, And99, Ano94a, Ano94c, ADB94, ADBGP99, Bag02, Bar86, BADP96, BAAD+97, BADG00, BAD01, BS97, BN97, BOX00, Bor86, BDS07, BME90, BME93, BEM94, DH86, Dem95, Dem96a, Dem96b, DHM03, FRE+08, FM95, FM96, FQG+92, HTG02, HJ96, IFM09, IHM05, Kat89, KFM99, KFMT00, KMT94, LKM02, Liu94, MIES90, MTES94, MT95, MD12, MG05, MMC99, McD97, NMH06, Oku96, PGB05, Per99, PRL03, SWW94, Sal96, Sha06, SP99, Sin92, SHG95, SHT+95, SRK+12, TMES94, TWYC06, TYON12, TYNO12, Ten98, TL14, WPM+02, WS92, WS93, WN14, WSWL95, WSH+12, Xu95, Yin15, YF05, Ano94b, CK95a, CK95b, GKS94, GKS98, Gre90b, HNY+09, HN10, HS95, INS+20, KK95, Xue98]. $N \log N$ [AO10, DYP93, ADO11]. ν [SH07]. $O(log_2 n)$ [JBL02]. $O(N)$ [BSL11, Deh02, DTG96, OKF14, Xue98].

AGR88a, AGR88b, AP00, AP03, Ami00, ATMK03, AYO20, AiIS+21, BDMN03a, BDMN03b, BSL09, BS19, BG94, BWS+95, BV96a, BL98, BH03, BHR04, BHGR04, BHGR05, BSSF96a, BSSF96b, BK96, CDJ07, CX21, CL91, CC04, CC05, Car09, CWHG97, CDF10, CCZ97, CWK08, CCKL09, CCG+06b, CRG01, CPP93, CRW93].
method
[CB20, CFR08, CB09, Dac06, Dac09, Dac10, DMC20, DYP93, Dar02, DM07, DM12, Dar97, Dar00a, Dar00b, DH04a, DH04b, DC07, DRS96, DKG92a, DKG92c, ESRS01, ECL02, FGM11, FOCB96, FLZB97a, FLZB97b, FD09, Fuj98, FMI+93, GDDC08, GSC01, Gib08, GR02, GG16, GROZ04, GKS98, GG89, GG90, GH02, GP08, GCH+18, GD05, GD06, GD09, GODZ10, Ham11, HM95, Hav03, HC10, HW10, HW11, HU97, HHL+21, HJZ09, HLL+18, Ich02, JH08, JC04, KKLZ23, Kan15, KM00, KSS10, KS11, KKB+21, KLM+09, KMC09, Kro01, KS98b, KS04, KP05b, KN95, KCF+05, Lab98, LCL+12, ŁBGS16, LJ98, LCQF18, LGG+13, LX22, LX23, LHL08, LC14, Liu08, Liu09, LCZ07, LCM07, MI95, Mak99, MB05, MR07, Mil08, MRH14, MMNB06, MSS20, NT94, NH97, OSW05, OSW06a, Of08, OKS09].
method [OCK+03, OYK+14, OMC08, OFH+08, OP07, ON09a, PN95, PSPS94, PSPS95, PSS95, PG96b, PA14, QCG15, RRR03, RKRRL21, RSBS19, RO04, RTA+08, RS97, RS06, SGG+04, SF18, Sat10, SL97a, SL97b, SM97, SH07, Sin95, SKPP95, SP97, Sta95b, SK04, Sud04, Syl03, Tak14, TSIM16, TCD17, TCD20, Tau03b, Tau04, TXL19, TG08, VW02, VOD08, VGZB09, VCM00, WY05, WY07a, WFC08, WCZ+20, WZC21a, WZC21b, WLB22, WHG94, WHG96a, WJGHG96b, WHG96b, WVK21, WSWL95, XJM08, YB21, YR98, YCM25, YB97, YBZL03, YB12, YBNY13, iYNK02, YAO18, YAO20, YSM05, ZT07, ZHPS10, ZHPS11, ZB14, ZKL+07, ZGD+16, ZB95, AAB+17, CD13, CKE08, CC10, CC12, CFR10, DDL13, FL13, GR97, LCP93, RGKM12, SL91, YTK14, Gav11].
Method-Efficient [NT96]. **Methods** [Aar85, Alu94, AG88, BS93, BS97, Bör23, BR93, DY98, Dem95, Dem96a, Dem96b, FQG+92, GHRW98, GW98, HEGH14, HJ96, LRW95, MBA97, SRPD06, SHG95, SHT+95, TDBEE11, VTG91, WSW+95, YF05, A+97, BLA05, BCH93, BL97, BG97, BN98, BCR01, Bes00, BDS07, Car07, CBN02, CJL+97, CWD08, CK00, Eng11, Gas97, GBMN06, GY08, GCG+99, Goe99, GE13, GKM96, GK04, GORV21, GD08, HS95, HGD11, IYK16, Kro99, Kro02, KP05a, KP08, LS05, LOSZ07a, LOSZ07b, LOG12, Lin95, LX17, LY14, MC92, NN12, OSW06b, Of07, Oku96, PJY96, PG96a, RS20, RKRRL22, RS94, ST06, SKT94, SM05, Sin92, SB96, TD09, YGSR01, aYZ97, YNS+09, YBNY12, ZX19, MC92]. **microlithography** [Ful97].
microlocal
[BDMN03a, BDMN03b, Dar02, GBMN06].
micromagnetic [VOD08].
microprocessors [NMH06, MSV92].
Microscopic [HB93]. **Microstrip** [MI96, MI95, ZCL+98]. **Microwave** [Ano95a, ZC00]. **militaires** [Ano97b].
military [Ano97b]. **Miller** [Sel22]. **million** [DKG92a, DKG92c]. **million-atom** [DKG92c]. **MIMD** [FQG+92, LB92a]. **mine** [ESRS01]. **Minimal** [BF78]. **Minimization** [OC05]. **minimize** [AiIS+21]. **Minneapolis** [HTA+97, IEE92b]. **Minnesota** [IEE92b].
MLFMA [SLC96]. **MN** [HTA+97]. **mode** [Sat10]. **model** [CAJ09, ES04, FG96, Ham11, IYK16, KP08, LGQZ21, TD09].
modeling
[BCM02, NMDK99, NKV94, ZKL+07].
Models [ÁC94, HB93, PN95, SGG+04].
Modern [MPZ21, NMH06, SF18].
Modification [SB98]. **Modified** [Bar90, BADG00, CHL06, LCQF18, LGQZ21].
module [DK93]. **Molecular**

Gav11, GSC01, GIS98, GY08, GR02, GG16, GROZ04, GKD09, GE13, GB11, GR88b, GG89, GG90, GH02, GORV21, GCH+18, GD05, GD06, GD08, GD09, GODZ10, GAD13, Ham11, HHKP09, HS08, Hav03, HYS21, HC10, HW10, HW11, HF92, HU97, HR98, HGD11, HHL+21, HLN24, HJZ09, HLL+18, IYK16, KKLZ23, Kan15, KM00, KSS10, KS11, KKB+21, KLM+09, KMC09, KS98a, KS98b, KS04, KP05a, KP05b, KP08, KAN95, KN95, KAN96, KCF+05, Lab98, LM02, LDB96, LOSZ07b, LCL+12, ŁBGS16, LB91, LB92a, LB92b, LJ98, LZL04, LOG12, Lem04, LCQF18, LGQZ21, LGG+13, LX22, LX23, LC14, Liu08, Liu09, LX17, LHYS24, LY14, LCZ07, LCM07, LCHM10, LCHM13, LWM+02, MI95, Mak99, MG07, MG09, MD98]. **multipole** [MB05, MR07, MRH14, MMNB06, MSS20, NW89, NT09, NT94, NN12, NH97, OSW05, OSW06a, Of07, Of08, OKS09, OCK+03, OYK+14, OC03, OMC08, OFH+08, OP07, ON09a, PRT92, PN95, PJY96, PSPS94, PSPS95, PSS95, PA14, Pta21, QCG15, Rah96, RS20, RŠŽ09, RKRRL21, RKRRL22, RSBS19, RTZ+96, RO04, RTA+08, RS97, RS06, RCWY07, SGG+04, SF18, Sar03, Sat10, SL97a, ST06, SWW99, SM97, SHM98, SKT94, Sin95, SKPP95, SP97, Sta95b, SB96, SK04, Sud04, STZ14, Syl03, Tak14, TSIM16, TCD17, TCD20, Tau03b, Tau04, TXL19, TCW08, TC09, TG08, TD09, VOD08, WJYO06, WL96, WYW05, WY05, WY07b, WY07a, WLL+07, WXQL08, WCZ+20, WZC21a, WZC21b, WLB22, WHG94, WJGHG96a, WHG96a, WJGHG96b, WHG96b, WVK21, XWY+08, XJM08, YS18, YB21, YRGS13, hYtWbWL08, YR98, YCM25]. **multipole** [YB97, YBZL03, YBZ04, Yin06, YNS+09, YBK+11, YBNY12, YB12, YBNY13, iYNK02, YAO18, YAO20, YSM05, ZCG00, ZT07, ZHPS10, ZHPS11, ZX19, ZCL+98, ZY05, ZKL+07, ZGD+16, ZB95, ZD05, CB14]. **multipole-accelerated** [BHE+94, BHER94, ZD05]. **Multipole-Based** [GSS98a, GSS00, YB01, LDB96]. **multipole-to-local** [CFR08, YS18]. **Multipoles** [And92, ÁC94, GSS98b, HLL08, LHL08, Mak99, OLLL03, OLL04]. **Multiprocessor** [SHG95, LMCPP92, Sin92, Ske89]. **Multiprocessors** [BB87, HS95]. **multiquadrics** [CBN02]. **Multiresolution** [NKV94]. **Multiscale** [ERT12, TW03]. **Multithreaded** [ZBS15]. **Multivariable** [BL05]. **multiwavelet** [FBHJ04].

Name [Cip00]. **Napa** [PA02]. **natural** [AO10]. **Navier** [Sel22]. **Near** [Bor86, CAJ09, ON09a, Rei99]. **near-rigid** [CAJ09]. **Nearest** [CK95b]. **Neighbor** [Bor86]. **Neighbors** [CK95b]. **Neptune** [MKFD02]. **network** [LB91]. **Networking** [ACM97, Hol12, LCK11]. **networks** [Kan15, LJ98]. **Neumann** [GGM93]. **New-version-fast-multipole-method** [LCM07]. **Newport** [IEE95]. **News** [Kan15]. **NH** [Mak93]. **no** [BEM94]. **Node** [BK15, FRE+08]. **Node-Level** [BK15]. **Non** [BB87, BCP08, DR95]. **non-equispaced** [DR95]. **non-standard** [BCP08]. **Non-Uniform** [BB87]. **nonbond** [DKG92a]. **nonbonded** [ATMK03]. **nonequispaced** [PSN04]. **nonlinear** [CAJ09]. **nonlinearly** [CC13]. **nonoscillatory** [GR02]. **nonplanar** [YB97]. **nonsmooth** [Beb06]. **normal** [GG16]. **Nose** [BVW96]. **Notre** [IEE96c]. **November** [ACM96, ACM97, ACM99, ACM03, Hol12, IEE90, IEE92b, IEE93, IEE94c, IEE02, K+96, LCK11]. **nuclear** [PGB05]. **number** [GDK89, Ich02]. **numbers** [JdR+18, WYW05]. **numerica** [Ise97]. **Numerical** [CL91, GKZ07, Kro02, Pri94, TDBEE11, dCGQS06, Atk97, BCM02, BCH93, CDF10, CG97, CHJN03, Dar00b, GCG+99, Gre90b, GM94, GH98, HLN24, KSC99, Kro01, OR89,

PRT92, RSS96, TYNO12, Wam99, ERT12].

O [Mak93]. **Object** [BT95, SHMC97, ESRS01, SM97, SHM98]. **Objects** [BVW96, BV96b, SLC96, SLC97, BV96a, EG09a, Erg11, TC09]. **Oblique** [SM97, CCKL09]. **obstacles** [Mak93]. **Oct** [WS93]. **Oct-Tree** [WS93]. **October** [Ano97b, HB93, IEE92a]. **Off** [HL15, DH86]. **Off-Loading** [HL15]. **One** [Ano94a, MTES94, WWF02, FRE+08, HM95, MR07, SK04, YR98]. **one-dimensional** [SK04, YR98]. **One-Tflops** [Ano94a, MTES94]. **onto** [Boy92a, LB92a]. **open** [CKB11]. **Opening** [And08]. **OpenMP** [AAB+17]. **operator** [CFR08, Lem98, Lem04, YS18]. **Operators** [CJ05, Beb06, CS82, CB20, ESM98, FBHJ04, Rah96, Rok98, TW03]. **OPFMM** [CRG01]. **opportunities** [Ano90]. **Optical** [Ful97]. **Optimal** [DKG92b, HHKP09, BWS+95, BME90, CRG01, MG05, PRL03]. **optimal-parameter** [CRG01]. **Optimization** [BK15, MBS15]. **Optimizations** [DMC20]. **Optimizing** [PD15, ZBS11, CB20]. **Orbitals** [Gus98, Le 97, ZZ93, KS98a]. **Order** [Bor86, LS93, RRR05, Alu96, DC07, GH08, GBMN06, GL96, HHL+21, PRL03, Pta21, TWYC06, Tau03a, Tau04]. **Oregon** [ACM99, IEE93]. **organic** [CKS91]. **organization** [AO10]. **organizations** [TD09]. **Origin** [Le 97]. **orthotropic** [ON09b]. **Oscillatory** [CCFG23, ZX19]. **other** [ZB95]. **overlapping** [KP05a]. **overview** [SB96].

P [PG96b]. **PA** [ACM96]. **Package** [HXC21]. **pair** [CK95a]. **Pairwise** [BP88, CKS91]. **Palazzo** [Ano95a]. **Panel** [Ano97b, RRR03]. **Panels** [RRR05]. **Paper** [HOST95]. **Papers** [Ano97b, IEE92a]. **parabolic** [JH08]. **paradigms** [MMC99]. **Parallel** [AAL+01, Ano94b, ADB94, ADBGP99, B+95, BADG00, BPT+14, Bha97, BS97, BP88, CDCD97, GKS94, GCH+18, HAS02, HTA+97, HP95, HJ96, IFM09, IHM05, JBL02, JKCGJ08, Liu94, LO96a, LO96b, LCP93, MFKN03, Mak04, Mat95, MBS15, NPR93, OKF14, Per99, Pri94, SWW94, SP99, Sin95, SHHG93, Ten98, TDBEE11, WS93, WMOZ22, WSW+95, Xu95, YB01, ZJ91, Bar86, BADP96, BAAD+97, BAD01, BCAD06, BJWS96, BCL+92, BDS07, BCOY94, Car07, CRG01, CWD08, CKB11, Dub96, DKPH04, Erg11, EG13, GLS06, GKS98, GG89, GG90, Hav03, HGS90, K+96, KK95, KP05b, LCL+12, LB92b, LJ98, LBI+97, LC14, Mak93, MHI07, MG05, NKV94, OCK+03, RC97, SRK+12, Sta95b, TMES94, WLL+07, WCLD21, WS95b, WS95a, WSWL95, WSH+12, YF98, YBZL03, YBNY13, Mak93, Rod89, TL14, TDBEE11]. **Parallelism** [BGLM05]. **Parallelization** [LB91, Lea92, TCD20, BCOY93, DK93, EG08, EG09b, HYS21, LHYS24, SWW99]. **parallelized** [AiIS+21, KKLZ23, OME+92]. **Parallelizing** [CvHMS94, Sta95a]. **parameter** [CRG01]. **Parametric** [SC94]. **Park** [RSS96]. **Part** [Dem96a, Dem96b]. **Particle** [BOX00, DYP93, Gre87, MFKN03, Pri94, VTG91, AGR88a, CGR88, CC13, CB09, CKB11, DKPH04, ECL02, FMI+93, GY08, GR87, Gre88, KM00, KK16, Kro99, KP05a, LGQZ21, LRJ+99, PJY95, WY05, WS95b, YGSR01]. **particle-in-cell** [CC13]. **Particle-Mesh** [BOX00, DKPH04]. **particle-particle** [PJY95]. **particle-reinforced** [WY05]. **Particles** [BP88, HE88, BP93, CPP93, DKG92a, GDK89, Ich02, JdR+18, Kon93, LDB96, YRGS13]. **partition** [AYO20]. **Partitioning** [BB87, Ten98, EG09b, MG05]. **passing** [KP08]. **PBBFMM3D** [WCLD21]. **PDEs** [A+97]. **PEACH2** [HL15]. **PEC** [GSC01]. **Peculiar** [ZQSW94]. **pedestrian** [CRW93]. **penetrable** [ESRS01].

GDK89, GCH+18, HFKM98, HNY+09, KM00, K+96, Kro99, KP08, LBC91, LKM02, MT95, MG05, MMC99, OME+92, PA14, Sal96, Sha06, SKT93, SKT94, TMES94, VCM00, Wam99, WS92, WSH+12, Xue98]. **simulator** [BSL11]. **Sinc** [Boy92a]. **Single** [CJ05, GP08]. **Singular** [FBHJ04, QCG15, RTA+08]. **singularities** [Pel98]. **sized** [Sat10]. **sizes** [LCZ07]. **skeletonization** [YCM25]. **Skeletons** [SW94]. **Slater** [Gus98, ZZ93]. **Slater-Type** [Gus98, ZZ93]. **slightly** [ZD05]. **smooth** [RKRRL21]. **SNE** [MPZ21]. **Society** [IEE95, IEE96a, IEE97]. **Software** [Kan15, TDBEE11, SF18, TYNO12]. **solid** [Bat03, PJY96, WL96, hYtWbWL08]. **solids** [WYW05]. **Solution** [ATR+12, GA96a, LJ96b, LJ96a, SG97, SC94, SC95, AHLP93, AP03, AD05, Atk97, BH03, BHGR04, BHGR05, CJL+97, EG08, EG09a, FLZB97a, FLZB97b, GDDC08, Gas97, GLS06, Gre90b, HW10, PN95, Rok85, Rok90, Sel22, WFC08, WSWL95, YSM05, ZC00]. **Solutions** [Erg11, HC10, KS11]. **solvation** [FGM11]. **Solved** [MG11]. **solvent** [DC07]. **Solver** [BOX00, CPD17, MGM95, SLCL98a, SLCL98b, Xu95, AC17, BME90, CCZ97, CHL06, EG01, GL96, GP08, GA24, HLL08, Kan15, LJ98, LCHM10, LCHM13, RS20, SRK+12]. **Solvers** [GSS98b, BME93, BEM94]. **Solving** [HTG02, VTG91, Car06, Car07, LC93, LC94, MCBB07, MMNB06, OLL04, XJM08, ZCL+98]. **some** [Sha06]. **sound** [CAJ09]. **Source** [SB98, CKB11]. **Space** [BT95, WMOZ22, YF98, BSL09, BKM09, CB14, GSC01, GG16, HM95, HS95, KKLZ23, SRK+12]. **space-charge** [KKLZ23]. **Space-Time** [WMOZ22, SRK+12]. **Space/time** [YF98]. **Space/time-efficient** [YF98]. **Spaces** [BF78]. **Spanning** [BF78]. **Sparse** [GOS99, LZL04, Rok98, Tau03a, LOSZ07a, MG09, RŠŽ09, TW03]. **sparse-approximate-inverse** [MG09]. **Spatial** [BT95, BLA05, CvHMS94, ZT07]. **Special** [Ano94a, BGGT90, CKE08, FM96, FHM99, KFMT00, MTES94, MT98, MFKN03, EIM+92, EFT+93, FMI+93, FM95, HFKM98, KMT94, MIES90, MT95, OMH+94, OME+92, SCM+90, TMES94, MC92]. **Special-Purpose** [Ano94a, CKE08, FM96, FHM99, KFMT00, MTES94, MT98, MFKN03, FM95, HFKM98, KMT94, MIES90, MT95, OMH+94, OME+92, SCM+90, TMES94]. **spectra** [ES04]. **Spectral** [RCWY07, OFH+08, PN95, TXL19]. **Speeding** [CK20, AO10]. **sphere** [BP03, CDJ07, DC07, Lin95]. **spheres** [GD05]. **spherical** [GODZ10, KSC99, PJY96, ST02, YR98]. **Spline** [CS98b, DKG92b]. **Splines** [CS98a, BL97, BCR01, BPT07]. **Square** [GGM01]. **Stability** [Nil04, Sud04]. **stabilization** [CX21]. **stable** [CX21, DH04b]. **standard** [BCP08]. **static** [VOD08]. **Station** [ERT12]. **statistical** [Kan15]. **Steepest** [JMC97, JMBC98, ESRS01]. **steepest-descent** [ESRS01]. **Stellar** [HM86]. **Step** [BS93, FLZB97a, FLZB97b, KM00, RCWY07]. **stepping** [BSS97]. **stochastic** [FST05, Sal96]. **Stokes** [GKM96, GK04, Sel22, Tau03a, TG08, WLL+07]. **Stokesian** [Ich02]. **Storage** [Hol12, LCK11]. **strategies** [CX21, WLB22]. **Strategy** [BB87, BCOY93, EG09b, HLN24]. **stratified** [ZCL+98]. **Stress** [BS19, GG16]. **Strips** [GA96a]. **strong** [Kan15, YCM25]. **Structural** [BPK85]. **Structure** [BADG00, NT96, ZQSW94, AYO20, GF06b, GF06a, Goe99, Kat89, KS98a, NT94]. **Structures** [And99, CSMCxx, GGM01, MI96, RW94, WPM+02, Car09, CWK08, EG13, LCZ07, WS92, ZCL+98, ZY05]. **studies** [RTZ+96]. **Study** [BGLM05, HM86, Pri94, Dar97]. **studying**

Ros06, RS94, WSWL95, AG88].
vortex-in-cell [CWD08]. **vorticle** [Ang17].
voxel [Ham11]. **VRP** [YRB16].
VRP-GMRES [YRB16].

W [MD12]. **WA** [LCK11]. **Waals** [DKG92b]. **Warp** [MPZ21]. **Washington** [IEE94a, IEE94c]. **water** [BAL91, HHKP09]. **wave** [BSL09, Bes00, BGGC06, CCZ97, CCKL09, CHJN03, CRW93, ESRS01, ESM98, GLS06, LC94, MD98, Tak14, TCW08, TC09]. **Wavelet** [HKS05, BP03, RŠŽ09, XWT09, XTH09]. **wavelet-BEM** [XTH09]. **Wavelets** [A+97, CM06, Tau03a]. **WAVES** [CHJN03]. **weak** [DM07, DM12]. **well** [Eng11]. **well-separated** [Eng11]. **wFMM** [CC12]. **Wheeler** [JdR+18]. **Who** [Wil00]. **Wide** [MPZ21, KMC09]. **Wide-Warp** [MPZ21]. **wideband** [CC15, CCG+06a, CCG+06b, NT09, CC10, CC12]. **Wigner** [Dac06]. **WINE** [FMI+93]. **WINE-1** [FMI+93]. **Winter** [ERT12]. **Wire** [CSMCxx]. **without** [ADG96, And92, HP95, Mak99, Pel98]. **Wood** [ON09a]. **Worcester** [BR93]. **work** [BADP96, DTG96, Rei99]. **work-** [BADP96]. **Workshop** [ERT12, HM86, AG88]. **workstations** [LJ98]. **World** [Wel91]. **WOTUG** [Wel91]. **Would** [Wil00].

X [Ful97]. **X10** [MRH14]. **x86** [TYON12, TYNO12]. **x86_64** [NMH06]. **XV** [BR93]. **XXVI** [Bre04].

Yamakawa [GCH+18, LGG+13]. **York** [IEE90, IEE90, IEE96b]. **Yukawa** [BFO99, HJZ09, ZHPS10].

zero [GG16, SF18, ZC00]. **zero-multipole** [SF18]. **Zonal** [BDS07].

References

Ainsworth:1997:WMM

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