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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: http://www.math.utah.edu/~beebe/

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Title word cross-reference

(1 + 1) [SP18a]. (2 + 1)D [HP14]. (MC)3 [KSW15]. 0 0 0 1 [Dan19]. 0 0 0 1
[Dan19]. 1
[CC14, Gio14a, HTT13, HTT14, MGL13, PM16, RKVL14, SBH+14, WNYP17].
1 + 1 [Fan19, SÖÖN11]. 1/2 [HvWT17]. 1/t [AM17]. 2
[APC+14, BBB17b, BVP10, DLM18, EW14a, FJK+17, FK12, GCVA14b,
Gwi12, Ixa10, JCL+18, KO14b, KO16, RAV11, SW14a, SW14b, SA15b,
SKK11, SW11, TMA+15, TY10, TKL+12, TPC16, VLM11, WMRR17,
WRMR19, YLKN17, YTYA17, ZSW+17a]. 3
[AV13, AM19, AGMS15, BAR12b, CP15a, CPCdM18, CdLOL19, DGG13,
FLZ+18, FRFH10, GS15, Gai17, GMF+17, Giu19, GG16, GX15, HKJ+12,
HDM+12, JEC+12, JCL+18, JKIS16, KAK12, KL11, KO14b, KO16, KMJS16,
LHJZ10, LHC+13, LX14, LKW11, LBP15, MGO13, MCP+11, NHD16,
NCB18, PR10, PCGM14, QSC14, Qia17, RF15, RS12, RJLL16, RHBH15a,
RHBH15b, TGH+16, TIM+16, VMGP+19, WNYP17, WRBL19, YKK+19,
ZXL16, ZZD+16, ZSW+17a, ZFR18]. 3 + 1 [KHB14]. 4 [GGF+13, dSLF13]. 5
[GAB+16], 6 [YKK+19], 71 [JTH14]. ∼ [KH11]. 1 [LM16], [HFSK12]. RM12, 2 [BG13b, BG14a, BLG14, Bon15, Bon16, GBD10, HSK12, RPB15]. 3 [CDTV10], 3Σ [Faw10]. ∗ [R] [LNSD15]. T_M [RJKC16]. [LSJ13]. 1_w [TMA+15], 11−x [LQZ+13]. 2 [CJH11, CHW+15, DSM+11, LS11]. 20 [CHW+15], 21 [CHW+15]. 3 [BKA+14, CJH11, CHW+15, DSM+11, KAR+15, LQZ+13]. 4 [LQZ+13]. 5 [LS11]. 6 [CJH11, CHW+15], MCGNLO [ADF+15]. Φ [KYM+17]. 1 [DKT14], E_6 [Dep17]. ep [AFIS12], η' [AHK+12], ym(Z) [CEPI10]. F [DGS+19, GAB+16, KTB17]. Fε [BK16b]. F_D [BKM14]. F_2 [BK16b]. G [CNCM10a, HR11]. Γ [DEMM19, GTKC16a, BCM16]. GGA [HWW12]. [HS19]. BR(B_0^0 → ℓℓ) [DNPS13]. C [Nik12b]. C_3 [Nik12b]. N = 4 [SD15]. O(α_s^2) [HP17]. Cocos [SM13]. D [CZ17, Kap12b, KTB17]. D = 4 [Fis12], Δ(S^2) [MC17], δf [DF14]. e^+e^- [FWWC15], e^+e^- → e^+e^−π^+π^− [CI11], e^+e^- → e^+e^-π^0 [CI11]. e^+e^- → e^+e^-R(J^{PC}=0^−+) [DKT14]. E_6 [Dep17]. ep [AFIS12], η' [AHK+12], ym(Z) [CEPI10]. F [DGS+19, GAB+16, KTB17]. Fε [BK16b]. F_D [BKM14]. F_2 [BK16b]. G [CNCM10a, HR11]. Γ [DEMM19, GTKC16a, BCM16]. GGA [HWW12]. GW [JGAL16]. H [MR13]. hp [CMC15, BCM16]. HΦ [KYM+17]. i [HWM15, KB19]. j [Wei11a], jj [Erm18], k [AWK+16, Ell17b, MDG+12, OBH10]. k_T [Vh18]. k·p [Bot12, MBF+10]. L [SS13b], L_2 [ZY19b], L_∞ [TK14b]. Λ [Kur17], λϕ [Chr18], LDA + U [HWW12]. O(N) [SSP18]. μ [TACA15]. N [BBL+13, COS13a, MTM13, MBDF12, PII11, SGNL17, WSH+12, dHV12, GJ14, RF10]. N = 8 [Fis12]. N_f = 2 + 1 + 1 [BBC+11]. ν [BNH+16, HCM19]. O(N) [SSP18]. O_h [Nik12b], p [Wei13]. F_3 [MK17]. p_{i/2+τ}(r) [GST12]. φ^4 [KVW11]. π [KS12]. q [FDWC12, KO13]. q = 3 [dS13], Q^2 [HK12]. R [AB10, AKH12, Bot12, Des16, NPM16]. R_2 [Deg15]. S [ACDdM19, BG19b, DdMN16, LB10a, LB11, LB12, LB13, SAS11]. S^4 [LF12], SO(2N) [CECGS16], SO(8) [Fis12]. ∗ [Tos10]. SU(2) [Alv12], SU(3) [BW12a], SU(N_c) [CB13a], S [HCRD14, TUC14]. T_1 − T_2 [GWF+16], T_2 [GFCF+17], T_3 [CJM+11]. T_4 [Nik12b], τ [CPWZ18], Θ [BJ11]. U(1) [BB13], U(3) [LDD+19]. V [ABB+16]. W [QGLP13, Vebl12]. w = 8 [ABRS19]. Z [CWW10]. Z [CWW10]. Z [CWW10]. Z [CWW10]. Z [CWW10]. Z [CWW10]. Z [CWW10].
8.2 [SAC+15].

9 [Nik12b]. 9.0 [SMO16a]. 90 [GST12, KS12, SSG+10, SSG+18, SS10a]. 95 [FGJB19, vH10].

= [LQZ+13].

adaptation-resolution [ABRS12]. adaptively [JL19]. adaptor [BV13]. 
algorithm [LTP16, Lya15, LOSZ13, MM17, MGO13, MPM14, MH11, MGS13, MEM+11, MC10, MTO15, MFLY19, NBN+14, Nen16, NFD+19, OL12, OOK+12, OCM+19, PH13, PSB11, PDRG10, PP13, PYW+14, PR10, PG17, PdMML19, QwWL+15, Ray10, RU13, Rom15, RW11, SGM11a, SGM11b, SCB+17a, SCB+19, SG15, ST19, SWL+15, SPS10, Sin12b, SKKI11, SQA+15, SOYHDD19, SOJ14, Ste17, TMS19, TIM+16, UW12, Urb18, US16, VSG18, VvAV+11b, VLL+17, VGM+15, WP11, WRF15, WWHW14, Wei12, WRVdL15, XWhZ13, YZZ+17, YvOSM15, YLYL17, ZKG+18, ZZHG18, ZCC19, Zhe15, ZMJ13, Zou18, vRWS14, Cho11, KS16a, SKH+10, YKS11].

Algorithmic [HB12, Mey18, GHR+16].

Algorithms [Fri14a, KD17, KBLJ18, Pan15, TK14a, BS14a, BK11b, BAF18, CWJ19, CLH+17, CCW10, CR12, CF17, CLB11, DS11a, DS14, Dim14, DS13c, ER19, FDWC12, Fri10, FHA17, GBR+14, GWF+16, GBJ+19, GCHL15, GSC+16, Has11, HLLH16, HRC11, Hon18, HVMR10, HCSW10, JPH+14, KMS19, KK17, KME+11, LBM+14, LIJY10, Mag18, MEG12, MD11b, MA11, PBS+17, STK10, SGM18, SJ17, SMJ17, Sha18, TRM+12, VPP+12, Vuk12, WG11, XQ19, ZH16, dSF18]. Alias [SKSK13].

ALICE [Ano19m].

aligned [DXY+19, HO13, HWS16, LDR+17, PHT+19]. alignment [BKM11, SJY18, SJY20].

alkali [SPAW17].


almost [PdMML19]. AIN [Dan19]. ALOHA [dALM+12]. along [McM17].

AlpGen [CUL+17]. Alphen [RJ12]. ALPS [DBK+14, GAC+17]. alteration [SVG10]. AlterBBN [Arb12]. Alternating [Sok13, SSP19, XZ12, BDK11, LST15, TTT14, XYK12].

alternating-direction-implicit [TT14]. Alternating-order [Sok13].

Alternative [ADdM17, Arb12, BKA+14, CLF18, KAR+15, SPP19]. altruistic [HLS12]. Am [MSNI11]. AMB [KB19]. AMBER [NBW16].


[Raw15, BT17b, MPSV15, Raw16]. Amplitudes [DLU18, BBU11, BvH15, Kvd011, Per14, dALM+12, ADH+17]. AMR [GX15, TE18, TK19, ZKG+18]. AMRVAC [TK19]. analog [CO11, Fer15].

analyser [LW11, LW13]. analyses [Ham11, KSTR15, SUS+17a, WLM14].

analysing [BPMS16]. Analysis

[BBB+15, Car10a, CAN11, GdGB+18, GES13, IB11, SLLP17, ÜS18, WHB16, vDSM16, AAA+16, ÁSS18, ASE1A4, AS11b, AMR15, Ano11o, AdM+12b, ACDdM14, APC+14, BHN+16, BKN+17, BHH+10, BBH+15, CSC11, Car10b,
CMRVVR+14, CF16, CPW17, CZL+11, DRR16, DGPO18, EBCB+14, EBDM17, EW14b, EW16, Faw10, FF11, FNPM10, FBN+13, Fri17, GWL+17, GMRHCM13, GMPFC+14, GMC18, Gio14b, GMO19, GHBL18, GA13, GBJ+10, GBJ+12, GBJ+13, GFJ+14, GAO13b, Hak16, Hak19, HC16, HJL+14, JuIAM16, JCK+13, KKP11, KYKN15a, KYKN15b, Lev19, LS16, LHWL16, LRP+15, LWP+17, MNO+17, MLLW+10, ME18, MB12, ML14, MPSV15, NEW+18, Nov17, Ost10, dLRJ14, OVS15, PCVZ11, PVH+17, PM14, Ram10, RRRSC10, Ram19, RV10, RJW+19, Rui13, RWKS15, SAA+10, iSYS12, Sha13a, SLW19a, SLW19b, SLCl1, Sin11, Sin12a].

analysis [SUS+17a, TRM+18, TBZ12, TS11, UW12, VV16, WLH+12, WLS13, xJS16, xS19, Yan09, GGF+13].

Analytic [BK13b, NS10, AC15, AC16, AC18, HSF+19, Kau13, KLLG17, LLL12, LLL13, LYL+17, PSB11, PSBT12, Pat15, Pat17, Ser10, THDS16, TGUvS19, WAHL13, YOM+19].

Analytical [MCAdF14, NCS17, BHW+12, DS10, FMRP16, FJK+17, JDG12, KCT15, KR14, MRVF13, MHWH19, SV19, Tan19].

analyze [GWM13, GNT17].

Analyzer [FCC15, RLR+19, KHZ+18, LZ18, ZLZ19].

Analyzer [BPM12, SAHP15, WJZ18]. and/or [XHL12].

And [BHT19, FHT+14, MST+18, SJ17, SPP19]. angle [HJ14, SLLP17]. angular [LN16, PR12, Pos18, We99, WT12].

Anisotropic [ZFZ19, HWS16, JG16, KYSV+15, LBB+16, MLW+10, McMi17, MLS10, MNI18, NO14, Ots11, SSB+16, SKML11, Taul10, VVB+12, YXZ19, YSV+16].

anisotropically [CAN11].

anisotropy [BDK11, KGSN10, MS11, NO14, QZ19].

annealing [BSM13, BWB+17, CM10a, CD12, IZRT15, DK+16, LM12, ON11, Yan16, JKG+18].

annihilation [BUDA15, GGHH14, Gre18, GT19, HLM13, Kol15].

annotate [BVC13].

Announcement [AAT+20, Hak19, YZCS18, AC18, SSG+18, WMR19].

anomalous [CPW18, LRRK13, PPV+11].

ANOVA [CC16].

anQCD [AC15, AC16, AC18].

Ansys [LNSD15]. antenna [TDDH14].

ANTICOOL [Gre18].

antiferromagnetism [BG11].

antipeakon [HDZ14].

antivortex [BUJ15].

any [Fer15, HLT19].

APart [Fen16, Fen12a].

APCAD [LSSP17].

aperiodic [PDML19].

aperture [HKF+12].

APFEL [BCR14].

APFELgrid [BC17].

API [NMCR15, Zag14].

APINetworks [MCNRC16, NMCR15].

appearing [LM16].

Application [BL19, BHH+10, BHH+15, CZD15, CGM17, CSSB15, DGI0a, Evs14, GZL14, GJHF14, Hon18, HW12, IUM13, KPA13, Komi15a, Kra10, KOK17, Lan13, LHJZ10, MKU+12, MS14, MK10, PG017, QA13b, RCH19, STK10, SGM11a, SGM11b, SCB+19, SCG11, TKS10, WVR+16, YK10, AAA+16, AS16, APS+16, BJBC+14, BG19a, BALV16, BMW14, BMNS14, Bru13, BGDM+17, CZ17, CGS18, CTL15, CZGC19, CBZ19, CCN17, Dua12, FBHB17, FK15, Fer15, GBK+12,
application-driven [BjBC14]. application-programming [SV14].

Applications [CM10a, HH11a, sL10, RBB15, VDF15, Asc10, BDPM15, BKA+14, CMSV14, CCY18, Dim14, DBK+14, FUSH14, FOB+15, GMH11, GCHL15, HM18, JHG+19, JTW+17, JKG+18, KV10a, KMJS16, LM12, MCAdF14, MFG+13, NPM16, Pan15, PBL+18, Ram10, RDC+18, Sai13, SHW18, SKSK13, TK14a, Veb12, VSG18, WJCZ18, ZS13, MD11b].

approaches

applying [HKZN17, KSH11, BS14a].

approximants [IH11].

approximations [Ike18, LO14, TK14b, ZY19b].

AQUAgpusph [CP15a].

aqueous [Beu11, Mar19].

arbitrarily [KMJS16, OL12, VSG18].

arbitrary [Asc10, Tic14, Ara14a, Ara14b, BBH+10, BCH13, CCD+16, CLHL19, CC10a, ECSh16, FRW17, GM16, HSD17, KAH18, MSRl10, MSR+17, NO14, NMCr15, SH12a, STA19, SW14a, SVV19, SS11a, VV16, vH10].

arbitrary-order [SV19, vH10].

arbitrary-rank [Ara14a, Ara14b].

arbitrary-shaped [HSD17, MSR+17].

arc [JTN+11, SCNJ18, SPA17].

Architecture [PMS+15, SCC+12, BW15, CRA10, Dan12, EGT+18, GBK+12, MR14, NBW16, SM19, YLQ+17].

architecture-independent [EGT+18].

 architectures

[DS14, Hdm16, HWcdM19, HAV+14, HWT10, NBN+14, PH13, RDN+17, TRM+12, TGH+16, VLPPM14, WEH+19, WFV14].

Arduino [KSH14].

area [BHw+12, EBV14, QLN14, YLK10].

argon [JTN+11].

argon-water
CC16, CGSB18, CMJ+11, CDL+12, CKhN11, CZGC19, CAGL13, CDR+15, DBMR18, DIP11, DSHS17, DG10b, DM17, DHH17, DRR15, DBLF16, DSPJ10, ELDS14, EBDM17, Ern18, EMS17, FRG12, FGC+11, FDWC12, FWS+17, FZY17, FBA17, Fu19a, GLZ17, GJ18a, GLX+14, GJ18b, GNT17, HLL13, HFOPF15, HPKF15, HWT10, HS16, HLD13, HKVR10, HM17, IH11, IKS19, ICPD16, JPCG15, JEC+12, JFA19, rJmYT11, JGAL+13, JTP15, KVV19, KK13, KCN18, KK14b, KK14a, KHZ+18, KO14a, KSH14, KM17, KO12, KO13, Kom15a, Kom15b, KLV15. [KPST15, Kra18b, KMA+12, LCC13, LJE11, LFG14, LN16, LYX+17, LO14, Liu13, LH18, LY16, LRS19, LWRQ16, LNP+17, MGL16, MB12, MHWH19, MHR+12, MW14, MNW+17, MNL19, MRL19, NPAD11, NDSH18, NAQ16, ON14, OLG+16, Ot13, OT11, OAKS11, OY13, PP13, PFFK19, PG17, PKRS16, RCCT16, RC13, RC16, RCH19, RB18, RH17, SVGS18, SAA+10, SC14, Sha18, Sha13a, SCRS17, SSX14, Sit18, SZM+14, SLL11, SK10, SGSG19, TKJ19, TMS19, TGH+16, TMD11, TB14, TDL+14, UW12, VPP12, WFZ19, WGG+19, WP10a, WLS13, WYH19, WSH+14, WBS+18, Wit14, XL15, XGH+19, YLL+19, Zaf14, ZAFAM16, ZLLP17, ZSW+17b, ZY19b, ZHC16, ZS13, Zhe15, Zlo13, Cho11].

Bethe [GGG16, GVS+15, SAW18]. Between [ABB+14, AC13, Ano10o, BB13b, CDBM16, FD13, FHTO17, DRI+16, GZL14, LSK+14, PDC14, TJH17, USOA13, VC10, Yan11]. Beyond [BM19, HLM17, ABC+18, BCP14, BHJ+15, Deg15, DNP13, DML+16, GTK+19a, HRC14, LSK+14, PDC14, TJH17, USOA13, VC10, Yan11]. BGK [CM14a]. Biased [Sin11, Sin12a]. Biasing [Gio14b]. BiCGGR [TKS10]. BiCGSTAB [NIK+12a]. BiconeDrag [SPTPR19]. Biased [Sin11, Sin12a]. Biharmonic [SK15]. Bilayer [FPY+17]. Billiard [TTS11]. Billion [YBK+11]. Bimolecular [SAG13]. Bin [CMRVVR16, GGG+19]. Binary [CM10b, GCC+18, JuIAM16, LM12, WLU11]. Binary-coalescence [GCC+18]. Binoth [ABB+14]. Bio [BG13a]. Bio-molecular [BG13a]. Biochemical [HL19a]. BioEM [CRB+17]. Bioheat [BBB17b, IBB18]. Biological [BHVMH15, CRNK12, NBM+15, Yan11]. Biology [DS10]. Biomass [XAPK14]. Biomolecular [VPM16, YBK+11, CBB14, GCH+18, LCHM10, LCHM13, SCC+12, TVZ+15]. Biomolecules [Mar19]. Biophysical [JJ15]. Biopolymers [PA13]. BiO [sX19]. Board [Ano18c, Ano18i, Ano18j, Ano10b, Ano10c, Ano10d, Ano10e, Ano10f, Ano10g, Ano10h, Ano10i, Ano10j, Ano10k, Ano10l, Ano10m, Ano11c, Ano11d, Ano11e, Ano11f, Ano11g, Ano11h, Ano11i, Ano11j, Ano11k, Ano11l, Ano11m, Ano11n, Ano12b, Ano12c, Ano12d, Ano12e, Ano12f, Ano12g, Ano12h, Ano12i, Ano12j, Ano12k, Ano12l, Ano12m, Ano13b, Ano13c, Ano13d, Ano13e, Ano13f, Ano13g, Ano13h, Ano13i, Ano13j, Ano13k, Ano13l, Ano14a, Ano14b, Ano14c, Ano14d, Ano15b, Ano15c, Ano15d, Ano15e, Ano15f, Ano15g, Ano15h, Ano15i, Ano15j, Ano15k, Ano15l, Ano15m, Ano15n, Ano16b, Ano16c, Ano16d, Ano16e, Ano16f, Ano16g, Ano16h, Ano16i, Ano16j, Ano16k, Ano16l, Ano16m, Ano17a, Ano17b, Ano17c, Ano17d, Ano17e, Ano17f, Ano17g, Ano17h, Ano17i, Ano17j, Ano17k]. Board [Ano17l, Ano18a, Ano18b, Ano18c, Ano18d, Ano18f, Ano18g, Ano18h, Ano18k, Ano18l, Ano19a, Ano19b, Ano19c, Ano19d, Ano19e, Ano19f, Ano19g, Ano19h, Ano19i, Ano19j, Ano19k, Ano19l]. Bob [SPTPR19]. Bodies [MNV13]. Body [GBJ+13, GBJ+15, GBJ+19, ADT+19, BBC+13b, BY13, BRH+16, CDS13a, CKS10, EKO16, FCVH17, FEH11, GBJ+10, GBJ+12,

C [ADH17, Ano11o, Ara14a, Ara14b, Aas14, BV13, COK19, CECGS16, DPW16, Ein16b, Fow18, GH18, GHN19, GC10, GC11, GC16, GC18, GCK19, HL18, KvdO11, KPV16, KLV15, KKO19, KYSV15, KLM19, LCJ10, LSDD14, LYSS16, MD11b, MCAdF14, Sai13, SV14, SS12, Sch18, SWS12, Smi15, SJHS19, Stu10, TS11, Ver16, VVB12, Vuk12, YSVM16, HFSK12]. C# [GBJ10, GBJ12, GBJ13]. C-code [GC10, GC13, GC16, GC18, GCK19]. C-library [MD11b, MCAdF14]. C2x [Rut18]. Ca [CJH11]. cable [OVS15]. cache [SSF14]. caching [WMRR17, WRMR19]. Cadabra [Bre10]. CADISHI [RK19]. CADNA [LCJ10]. Cahn [KL17, LCJ12, LLXK16, XYXZ19, YZ19, ZFH14]. CalcHEP [BCP13, Sta10]. CalcHep/CompHep [Sta10]. calculate [BBU11, CATK11, FLE19, Fen12b, KA17, KST14b, MPS13, Sar17b, SHZ13, UFKB19, ZK15]. calculated [HS16, LS12b, RJ12, YFA17]. Calculating [ABB16, ECSH16, Fon12, LKM16, AM10, AM11, Arb12, AMR19, BBL13, BN18, BBPS14, Brá15, CLJ12, EZBA16, FS17, FEH11, GPS13, HEF12, HL19b, Jab12, Jab13, LZZL11, LCHM10, LCHM13, MCV18, MH11, NGM10, PH13, PCR17, Pos18, SEW12, SEW14, ST15, STY18, SC16a, SPAW17, SW12b, VDJ11, WCL14, YLTS16, ZMCT12]. Calculation [GKM10, Kir10, LXR18, MK19, Pla16, Sar17a, SMGK19, WW15, WBY11, AHK12, AC17, AG14, AAT17, Aza13, BGM14, BPC12, Buc19, CMVRB14, CMRVVR14, CHDCJA17, CYD11, CFSK14, Cip11, Cip13, CM14b, DBDP12, DSS12, DRR15, DNP13, Eba13, ELL17a, FWZ12, GKM17, GAHP15, GM16, HLM13, HK15, HAN16, JL12, KAK12, LPRPR17, LFK18, LS14, LKL1, LSC1, Liu15b, LHGF18, MGF13, MSNI11, MFSV15, MSLR10, MSL15, MSL17, MC17, NKS15, Nik12b, ORCRL7, PBMA12, Pat15, Pat17, QZ19, QZWU19, QLN14, Ram10, RK19, SD10a, Shi16, SS11a, SZM14, SKK11, Sta11, Ste17, SMGK14, TZG12, TMA15, WLGY18, Wei09, Wit14, XMLC16, Yan09, ZPH15, ZT13, ZT14, ZFBR11].

Calculations [Lit13, PDC14, ZY10, APS16, ART17, AC15, AC18, BK13b, BC10, BDPM15, DdJC19, BH17, BBHI1b, BS13b, Bor14, BHS15, CLHL19, Cas12, CKSM19, CPV13, CCGC13, Cor14, Cri18, Dan11, Dat13, DN18, DSW15a, DHS14, DA16, DO14b, DML16, EJG19, Ern18, FSH13,
FUSH14, FCC15, Fri12, FZY13, GA15, GGG16, GVS+15, GBSY18, HSF+19, HWI12, HHS+10, HW12, HL19c, Jac19, JPCG15, JWCM17, JL19, JOK13, KB19, KT12, KCT15, KKL+18, KSL+11, KPK+17, KPST15, KH10, LA13, LS19, LZP12, LSR+17, LS17a, MED11, MAz19, MAM14, MLK+17, MLK+19, NGG+13, NSXZ14, Nis11, OBH10, OT11, PB13, PUO14, PKRS16, PSP16, RPL+14, Roh16, RC11, SA18, SW14a, SZ15, SCRS17, SAY+18, SMUT19, SLR+11, SSF, SUT11, SUT11, Smi14, Smi16, SQL+10, SPSP18, TC12].

calculations [VSG17, VCMS+13, WL11a, WR16, Wil15, XJS16, Zit11, VPM16].

calculator [ERS10c, ERS10a, ERS10b, HTY17, ZZH+16, ALL+11].

calculus [ERS10c, ERS10a, ERS10b, HTY17, ZZH+16, ALL+11].

Calibration [BMG+15, BDGM+17, Ost10, ZUT13].

callbacks [BV13].

calorimeter [dAFdSVM12, GRZ10, BPMM14].

CALPHAD [TKP15].

CALYPSO [WLZM12].

camera [MGA+13].

Camassa [ZST11].

cancer [GC15].

candidates [BBPS15].

CANONICA [Mey18].

Canonical [AS16, PA13, GA15, Mey18, Pra17, PLCC12, RMC16, Slt18].

canonical-ensemble [GA15].

canonicalization [Nie18].

capabilities [OTC14].

capability [LLE+18].

capacitance [CLC14].

capabilities [ZMCT12].

capacitively [SBL16].

Can [Pra11, CBB14, KSL+11].

Canal [SCW+11].

cancer-related [SCW+11].

canonical [AS16, PA13, GA15, Mey18].

canonical-ensemble [GA15].

canonicalization [Nie18].

capabilities [OTC14].

capability [LLE+18].

capacitance [CLC14].

capacitively [SBL16].

Car [SCW+11].

car [SCW+11].

car [SCW+11].

car [SCW+11].

carbon [Beu11, CSL+13, LHS14, OPO+11, OPSR13, OPR14, RM14, TM19].

Carcinogenesis [SCW+11].

cardinal [LD10b].

Cardiac [MBS+10].

cards [GLB13, RPL+14].

Carlo [ZTG14, AFIS12, ASGLK10, AK15, ABB+14, ASPDL+16, AIG16, Ano10o, AK13a, AK13b, AMJ18, BKV16, Bar11a, Bar12a, BDP16, BVP10, BG11, BMW14, BG13b, BLG14, Bon15, Bon16, BHJ+19, BMDP19, BENK+17, CGG+19, CL11, CGZC19, CL15b, CKS10, CNS+14, CI11, CK19, DSH17, DGPW11, DEMM19, DPK+15, Dem11, DDKM15, DK14, EBD17, ES11, FGG11, FLE19, FW11, FDWC12, GTPS19, GA15, Gin10, GSB+14, GWF+11, GB17, HKZ17, HKZ19, HBE10, HMR14, HP11, HWM+15, Hu17, IUM13, JPS10, JLA+14, JA17, KOT12, KMO19, KGE12, Kan14, KRW13, KC14, KKK+17, KNS+17, KV19, KLO+19, KSW15, KPvdH13, LS14, LS15a, LS15b, LLE+18, LWL11, Lut15, MP11, MBRV+13, MRZ10, MEM+11, MW14, MHR+13, MMY+19, NAPD11, NHD16, NDS18, NSXZ14, NBC18, NM14, OPO+11, OPSR13].

Carlo [OPI14, PZL+19, PEM19, PM14, RF16, Ram19, RMS+12, RV10, RV11, RB18, SH11, SGNL17, SFP11, SL16, SHT18, SMJ17, SM19, SD14, SKFP16, SLZ16, SSF+14, SKM15, SKSK13, TGG12, TVZ+15, Tic10, Tic14, TKP12, TMS19, TU14, Trö11, TDL+14, UKKB19, UA17, Uvb18, VK14, WRFS15, WDL11, WSTP15, WBS+18, WvSL13, WT12, WWVB11, WLZ17, XGH+19, YWOD19, ZBG+16, ZLM12, ZTG13, ZDD+13, dSF18, dHGCS11].

Carlo-based [EBDM17, MW14].

Carlo [Kol14].

Carlo [Kol14].

Carlo [Kol14].
carrier [Buc19]. carriers [MSRL10]. Cartesian [BOGL17, BLAS19, FZY17, MAM14, NKS15, SDM+12, SDS+17, SHL+11].
Cartesian-grid-based [FZY17]. cascade [LMAB16, Szy+12, Szy+13, SZM+14, TB14, ZYL+15]. cascaded [LJD+19].
cascades [BTM+17, Fri19, KOT12, RLS16]. case [Asi10, CMRVVR+14, Che11, CzI9, FKL13, sLqSqL+13]. Casimir [AG14].
Caveats [CH11b, SYE+18]. cavities [AG14, BHH+10, BBH+15, CBB14, CdFDS16, VBMP15]. cavity [LLSK17].
[NAQ16, QYM11, QAla3a, SP18b, WZS+11, CHW+15]. CE/SE [NAQ16, QYM11, QA13a, SP18b, WZS+11]. Celeris [TL17].
[BTL+17, D12, FRG12, HGCARM15, KMJS16, LAz15, LHG+19, NGCI+12].
CellSim3D [MAW18]. Cellular
[TD11, CRA10, FGC+11, FBG10, JEPF14, MAW18, PC11, DG16]. center [BAR12b, DT18, Nis11]. centered [KCA+15, LRW+15, SC15, SC16b].
Cerovik [LQYX+17, XXD+15, YXT+15]. CESE [FXZ+14]. CFD
[CDR+15, HMD16, HJ1H17, KDM17, LNSD15, LSD18, Shs13a, XAPK14].
CFEL [FBC+12]. Chain
[EBDM17, KSW15, APV10, Lev19, RV10, RV11, UIY11, LN16].
[Jab12, Jab13, Jab15, Jab19, MR13]. change [HYM11]. changes
[BLS17, LSD18, ZMM11]. Channel
[KSW15, CCL18, Des16, GCV14a, LLQX19, ZLFM11]. channeled
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[BEKP19, TXZL15, WJHW14]. chaotic [GBJ+10, GBJ+12, GBJ+13, GFJ+14, GBFJ14, MCL+17, GBJ+13, GBJ+15, GBJ+19]. Chaotic [HVP+19, ADdM16a, ADdM17, GTS14, HLD13, KI11, ÖY13, RDN+17, TTS11].
CHAPLIN [BD14]. CHAPLIN-Complex [BD14]. characteristic
[LSD14, MH18]. Characteristics
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characteristics-based [TKJ19]. Characterization
[CKLM10, HFSK12, CZN14]. characteristics [Mar19]. characterizing
[SPY11]. Characterization [Kap16, SCW+11, Buc19, CC14, CC15, CAGL13, MSRL10, MTO15, NF117, iNSK+15, PFFK19, Qia17, SGM11a, SGM11b, Sok13, VLL+17, XNK+16, YXT+15]. charge-conserving
[BBH+10, BO12, BSWC14, DBDP12, GAGW16, LCC13, LSK+14, LL12, MLGVE14, MEG12, NCS17, diRJL14, PBD+15, Pla16, PB16, RH11, SAN18, SAG13, TM14, TPC16]. chemically [MTE17]. chemistries [YFAT17]. chemistry
[CHH+11, GHK19, IIO16, KEH12, Sou14, WPAV14, WMI19]. chemokine [rJmYT11]. CheMPS2 [WPAV14, WPD+15]. Chen
CHICOM [Gag12a, GHN19]. CHEF [MJKB18]. chiral
[CZ19, GBD10]. CHIWEI [Gag12b, GH18]. choice
[DDM14]. Cholesky [LHJZ10]. choosing
[GLR17]. Christoffel [JC16]. CI
[DKG+14, KPST15]. CIF2Cell
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[rJmYT11]. Classical
[CPLH14, VMFS16, BDFS18, BTM+17, CEF16, DT11b, DS13b, GH15, Gwi12, KO12, MCV18, SKK11, SLR16, SA14, WJC17]. classification
[CFSK14]. classifications
[SL10]. ClassSTRONG
[CPLH14]. clathrate
[MD19]. cleaning
[LLQX19]. Clebsch
[HR11]. CleGo
[HR11]. climate
[DBD+17, MW19]. cloning
[BS12]. close
[BAK+15, BAK+16, BAK+17, WISA11]. close-coupling
[BAK+15, BAK+16, BAK+17, WISA11]. closed
[Faw10, MCA17, SL17]. closed-shell
[Faw10, MCA17]. closure
[CXL19]. cloud
[CNS+14, JTW+17, JVR12, KCON18, VPMVH+17]. clouds
[APC+14, JH11]. CLUMPY
[BHN+16, HCM19, CCX12]. Cluster
[SRJ14, PEMS19, SM14, BCT+17, CSDP10, CGS18, CZGC19, HFW17, GTS11, HFW16, JSLM16, KPS12, KSL+11, KO12, KO13, KO14b, Kom15a, Kom15b, Kom15c, KO16, KZ14, LKM+16, MCA17, MTM13, MFY19, TMR13, TM19, XLCW14, ZSW+17b, LX14]. cluster-application
[CGS18]. cluster-cluster
[MFLY19, XLCW14]. Cluster-Expansion
[PEMS19]. cluster-labeling
[Kom15a]. Cluster-parallelizable
[SM14]. Clustering
[HPB14, MKMK10, DAW+19, LLHC11]. clusters
[BBF+13, BG13b, BG14a, BLG14, Bon15, Bon16, BRH+16, DRR16, DCVB+13, GS17b,
GZZ19, Gwi12, KSL+11, LLHC11, Law19, LSYZ12, LS17a, RRCSCJ10, RD10, SKK11, SQL+10, VK14, YZZ+17, YHL11, YLYL17, ZPS+18. CMBE [GFJ+14], CMFD [PZL+19]. CMIstark [CFSK14]. CN [PYW+14].

CN-ICCG-FDTD [PYW+14]. Co [CJH11, LQZ+13, DS13c, TG11].


codes [BDL+19, BPP11, BFPP12, CYD11, DGS+19, FMRP16, Gio18, HC10, GC13, GC16, GC18, GCK19, GHL18, GAB+16, GBJ+13, HdM16, HBE10, HV15, Hak16, Hak19, HCRD14, HTT13, HTT14, Hol19, HF16, HHM+15, IBP+15, JulAM16, JCW+13, JFC12, JGAL+13, JHL+15, KHB14, KSS18, KPA+19, KTE+12, KBSP12, KCS+15, LAA+10, LEE+18, LHH+12b, LJZ+18, Lit13, LO14, LL15, LDF+16, LMB16, LR13, LR16, MDW16].

coding [BBB+17b, CFCB12, FFT+14]. coefficient [BBB17b, IBB18, PR13, PYW+14]. coefficients [ABC+18, ARYT17, BNPPD19, CATK11, DT10, Dev12, HR11, Ixa12, KKS18, LZZL10, LKT+16, MCV18, Moh14, ORCR17, PKT15, Shi16, SMGK19, VCD16, Wei99, Wit14, YC¸ ¨O15].


collaborative [DBP+18, Liu14]. collapse [BNAB11, KH19]. collective [GLR17, Gio18, WR16].

Collider [BBB+18, CKhN11, EFG+10, BCP13, BDDM18, CFS13, YWW13, BSW12].
colliders [AHH+19, BDC+14, BHZ13, CM14b, DDKM15, Gao13a, GLS+13].
colliding [Lit13]. Collier [DDH17]. collision [ART17, BTM+17, BO12, 
CYD11, HPN18, HDZ14, MWI+19, NNWS15, RF16, SD10a, WSH+14].
collisional [CXL19, DGS+19, HJ14]. Collisions [BHO14a, BHI14b, CUL+17, CKS10, Col14, DCC+10, Gin10, GFJ+14, GBJ+15, 
HL19c, JH11, KKK+15, KHB14, KHK+11, KNS+17, MEM+11, Nis11, OK12, 
OK18, SZY+12, SHT18, SQS+16, SKK17, Tom16, VC10, VS19b].
Collocation [LD10a, LX12, LCCC11, MM10, PDRG10, ZWLZ17, ZST11].
Colloidal [TCCV18, BHND16, DGPOR18, HAN+16, HCSW10, MDPTK15, Van15].
colloids [OOGP19]. COLONEMA [Car16]. colony [vRWS14]. color 
[HKK11]. Columbus [Pit12]. combination [LAG+17]. combinations 
[BH14a, BH14b, CUL+17, CKS10, Col14, DCC+10, Gin10, GFJ+14, GBJ+15, 
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OK18, SZY+12, SHT18, SQS+16, SKK17, Tom16, VC10, VS19b].
Collocation [LD10a, LX12, LCCC11, MM10, PDRG10, ZWLZ17, ZST11].
Colloidal [TCCV18, BHND16, DGPOR18, HAN+16, HCSW10, MDPTK15, Van15].
colloids [OOGP19]. COLONEMA [Car16]. colony [vRWS14]. color 
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[BH14a, BH14b, CUL+17, CKS10, Col14, DCC+10, Gin10, GFJ+14, GBJ+15, 
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OK18, SZY+12, SHT18, SQS+16, SKK17, Tom16, VC10, VS19b].
Collocation [LD10a, LX12, LCCC11, MM10, PDRG10, ZWLZ17, ZST11].
Colloidal [TCCV18, BHND16, DGPOR18, HAN+16, HCSW10, MDPTK15, Van15].
colloids [OOGP19]. COLONEMA [Car16]. colony [vRWS14]. color 
[HKK11]. Columbus [Pit12]. combination [LAG+17]. combinations 
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OK18, SZY+12, SHT18, SQS+16, SKK17, Tom16, VC10, VS19b].
Collocation [LD10a, LX12, LCCC11, MM10, PDRG10, ZWLZ17, ZST11].
Colloidal [TCCV18, BHND16, DGPOR18, HAN+16, HCSW10, MDPTK15, Van15].
colloids [OOGP19]. COLONEMA [Car16]. colony [vRWS14]. color 
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[BH14a, BH14b, CUL+17, CKS10, Col14, DCC+10, Gin10, GFJ+14, GBJ+15, 
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OK18, SZY+12, SHT18, SQS+16, SKK17, Tom16, VC10, VS19b].
Collocation [LD10a, LX12, LCCC11, MM10, PDRG10, ZWLZ17, ZST11].
Colloidal [TCCV18, BHND16, DGPOR18, HAN+16, HCSW10, MDPTK15, Van15].
colloids [OOGP19]. COLONEMA [Car16]. colony [vRWS14]. color 
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OK18, SZY+12, SHT18, SQS+16, SKK17, Tom16, VC10, VS19b].
Collocation [LD10a, LX12, LCCC11, MM10, PDRG10, ZWLZ17, ZST11].
Colloidal [TCCV18, BHND16, DGPOR18, HAN+16, HCSW10, MDPTK15, Van15].
colloids [OOGP19]. COLONEMA [Car16]. colony [vRWS14]. color 
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OK18, SZY+12, SHT18, SQS+16, SKK17, Tom16, VC10, VS19b].
Collocation [LD10a, LX12, LCCC11, MM10, PDRG10, ZWLZ17, ZST11].
Colloidal [TCCV18, BHND16, DGPOR18, HAN+16, HCSW10, MDPTK15, Van15].
colloids [OOGP19]. COLONEMA [Car16]. colony [vRWS14]. color 
[HKK11]. Columbus [Pit12]. combination [LAG+17]. combinations 
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HL19c, JH11, KKK+15, KHB14, KHK+11, KNS+17, MEM+11, Nis11, OK12, 
OK18, SZY+12, SHT18, SQS+16, SKK17, Tom16, VC10, VS19b].
Collocation [LD10a, LX12, LCCC11, MM10, PDRG10, ZWLZ17, ZST11].
[BHVMH15, YKS11]. complicated [AKR15]. component [Eba13, Erm18, HLS+17, TZM17, WLM14]. components [KCA+15].


comprehensive [CEZ16, SAHP15, VBG+10, WJCZ18]. comprehensive [HLW16].


Computational [ABB13, AL17, BBB+17a, BBC+17b, JAS17, MCRG11, NMS14, NMS15, RH11, SWS+12, WWR+16, YFAT17, ÁSS18, BHNS17, BCP+16, CL15a, Che11, CRC+13, Fri19, GBSY18, GBS+16a, HWCdM19, JOR+12, LFKD18, LHJ+15, LLX14a, MWI+19, MMC10, MCR15, Müll14c, NMR15, NVAFO18, PSMS14, PSMS15, RK11, RBB15, RCD+10, Ros15, Sou14, WC15, ZTG13, ZTG14, dSVLP13, dSF18]. Computational [WRBL19, DMC10]. Computations [Dan10a, Dan10b, BKS15, Bog16, Bre10, DS13c, GJ18a, GLW14, HKSW10, MKR+12, Naz12, NOR15, Wei15, YRR13, ZFZ19, dALM+12]. compute [BH11, Boy15, HHP+14, PB16, RLS16, RW11, SSG+10, SSG+18, TZM17, VB19, Wei11a, ZZSW19].


computer-generated-hologram [WSO+12]. computers [BWPT11, BKPT12, BY13, ILZ+19, IW15, LS12b, MNW+17, SOM+13].

Computing [ASTT16, ADF+15, BBC+11, Gio14a, LSG+12, RE19, TCP13, Vit19, Wai12, YE14a, ARAB+17, ARTY17, ABDR17, Ara14a, Ara14b,
[ABdA15, AMRdA17, BBUY13, BCR14, HP17, LP15, Sta11, YW17, NJ18].
corrector [PAS11, PS14, SD10b, SA15b, TYH+15, Yua19]. correlated
[APS+16, BKS15, CSK+19, DB13, HLL13, JDG12, KH11, MDF11, OOK+12, PZY16]. correlated-electron [CSK+19]. correlation
[ARAB+17, CMVRB+14, CMSN18, DKG+14, KCL11, LAA+10, MHHL11, MOB12, PZL+19, QHZ+14, RMW13, RGKR17, WPD+15]. Correlations
[DBB12, CLKK11, GTH+19a, K ´OG17, MBGV15, RE19, iT11, WT12, YK12]. correlators [DE13, Nem16]. correspondence [GLX+14]. corresponding
[GCVA14a]. Corrigendum [AAT+20, Ano20, AZ17a, Ber16a, KYKN15a, Kra18a, LR16, Ras17, RC16, RBBH15a, YQM14, ZTG14, Sco13].
cosmic [HCRD14, LKW11, TS10, VDJ+11]. Cosmo [Asl14]. Cosmological
Coulomb [EUT+15, GH11, HK15, JH15, JZZ+19, LB13, MC16, MRL10, Nis11, PH11, RZ19, RGKR17, Sar17a, Sar17b, SHT18, SV13, X13D, XHD15, ZHP10].
coupled [AV13, BSM13, BK16a, CZS10, CZL+11, DT11a, DN13, DHJ13, Des16, DGMZ15, EEGW12, FBHB17, FCCTFR18, GMHZ19, GCVA14a, HWCH11, KGFS18, KP14, LWL12, MCA17, MZE13, PGO17, QSC14, SBL16, TK19, TPC16, WX14, YS17, ZMPT13]. coupled-channel [Des16, GCVA14a].
coupled-cluster [MCA17]. coupled-wave [CZL+11]. Coupling [DRI+16, KST14a, SCNJ18, BAK+15, BAK+16, BAK+17, CL14, FLSZ13, FHTO17, KA17, KVW11, LSK+14, MKL17, NGM+10, PMVG16, Pre18, Schl14a, SS12, TD17, WISA11, WX11, WNP17, WLGY18, We99, YLL+19, ZCC19, Ern18]. couplings [AGH+16, AC16, KKS18]. covalent
[HXW+13]. covariant [BS12]. cover [Ano16m]. Cowan [Kra18a, Kra17]. CP [CRC+13, LCE+13, PS12, RCD+10, Ros15]. CP-phases [PS12].
CP-violating [CRC+13, RCD+10, Ros15]. CPC [Wei11a]. CPMC
[NSXZ14]. CPMC-Lab [NSXZ14]. CPPPO [MGR16]. CPSuperH2.3
[LCE+13]. CPU [BPP11, DCGG13, ELDS14, FBN+13, FOB+15, LSYZ12, Lya15, MDM16, MPM14, WC13]. CPU/GPU [LSYZ12]. CPUs
[AEK018, BS14a, ON12, RK19, SAN18]. CR [ANAJ12, BTM+17]. CR-39
[ANAJ12]. Crank [BB10, CWS14]. CrasyDSE [HM12b]. create
[KSTR15]. creation [DEW16, Kr19]. criteria [AG12a]. criterion
[HFSK12, SK10]. Critic [dRLJ14]. Critical
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[CPW17, SJY18, SJY20, ALL+11, ASEA14, BPC12, BS13b, BHS15, CYD11, CFW17, Cip11, Cip13, CM14b, DHS14, DLM18, Gao13a, GLS+13, Kol14, Lit13, LWJV18, OILK17, PDL+18, SGAA18, Shi16, VC10, vdS13].


D [BL18a, JCL+18, LBP15, RPB+15, RHBH15a, TGH+16, WNYP17, WRBL19, AV13, AM19, AGMS15, APC+14, BBC+11, BABB17b, BAR12b, BVP10, CP15a, CPC1dM18, CC14, CdLOL19, DGG13, EW14a, FLZ+18, FAN19, FJK+17, FK12, FRFH10, GS15, Gai17, Gio14a, Giu19, GG16, GAB+16, GGF+13, GX15, GCVA14b, Gwi12, HKJ+12, HHT13, HHT14, HDM+12, IXa10, JEC+12, JCL+18, JKIS16, KAK12, KL11, KO14b, KO16, KMJS16, LHZ10, LHC+13, LX14, LKWN11, MGL13, MGO13, MCP+11, NHD16, NCB18, PR10].

PCGM14, Qia17, RKVL14, RF15, RS12, RAV11, RJLL16, RHHB15b, SBH+14, SW14b, SP18a, SA15b, SKK11, SW11, TMA+15, TY10, TKL+12, TIM+16, TPC16, VMGP+19, VLM11, WNY17, WMRR17, WRM19, YKK+19, YLKN17, ZXTL16, ZSD+16, ZSW+17a, ZFR18, SW14a.

delocalization \cite{HW11}. Delta \cite{SCM+18}. Delta-plus-SPH \cite{SCM+18}. demand \cite{CLH+17}. dendrite \cite{ZKG+18}. dendritic \cite{JEFP14, JK19}. dense \cite{BMC+11b, CNS+18, MSZW11}. densities \cite{BR14, Gio14a, GZW17, SHZ13}. Density \cite{GS17a, NJS17, VCMS+13, ASA18, AKZ+13, AG14, AM10, AM11, AM17, BL19, BHH11b, BCH17, BR13, BSGG10, CDTV10, CXH+15, DSM+11, Du1a2, FT118, FLE19, GWL+17, GBR+14, GJ18a, Gio14a, GCP+15, HYM11, HHS+10, JCW+13, KT12, KCT15, KK16b, KKL+18, KBSP19, KSY13, Liu15a, LW13, LS11, LRR+15, LRR+17, MGRB11, MOB12, MSS+16, Mi116, MNPY14, MC17, NPAD11, NBN+14, OOK+12, OT11, QJF16, RCC15, RCH16, RCH19, RHG10, RWKS15, SH12a, SCRS17, SXX14, SBH+12, SAHP15, SA14, TVGB15, VBS+17, VSG18, VvAV+11b, VvAV+11a, WLGY18, Wit14, WPV14, XLL15, XNK+16, YKK+19, YLYL17, YRR13, BC10, DBB12, GS17b, LT15}. density-based \cite{SSX14}. density-functional \cite{GBR+14, MGRB11, MC17, SCRS17, SA14, TVGB15}. DensToolKit \cite{SAHP15}. dependence \cite{Maź19, MLK+17, MLK+19}. dependencies \cite{Kan14}. Dependent \cite{LB10b, BBB17b, BMBC+17, CFCB12, CVK+17, DS13a, DHR14, DM12, FGLB12, GYW+17, GS15, GBR+14, GTG+11, HST+11, HM18, IBB18, Ixa12, JL19, Kap16, Ker17, KBS19, KTA12, KYSV+15, LV14, LBB+16, LYSS+16, MC16, MGRB11, MGL16, MC17, NPM16, ÔN12, PR13, PM16, RVS16, RDS18, SBB+16, SHZ13, SSH+13, SLC11, SBH+12, SCB17b, Ste17, TC11b, TVGB15, TT11, UW12, VBS+17, VVB+12, WL11b, XJS16, YSVM+16, YSMA+17, ZHCR18, ZYZ15, ZKS13, dSF18, vH18}. depending \cite{EY11}. depinning \cite{SLZ16}. deployment \cite{HKK11}. deposit \cite{YXT+15, Lit13, LO14}. deposition \cite{BT17a, RH11, VLL+17, ZLFM11}. Derivation \cite{CWS14, ZFZ19, BENK+17, HB12, Miy15}. derivations \cite{ZZ17a}. derivative \cite{RVA14, SK10, SAHP15}. derivatives \cite{BDJS18, GCAV14b, KTB17, KCA+15, LWZ14, MDHD18, NS15, PB16, WWS10, dTOV18}, describing \cite{ASTT16, BDKS10, HJ14}. Description \cite{US18, DCM+12, DPK+15, DOP17, DCL+11, MNC15, TKP15}. Design \cite{CFB12, Fri14b, Dan12, LOK+16, ML14, NFA+16, NVAFO18, TUY15, SAA+10}. Designed \cite{UO15a, DLW+18, MCA+F14}. Designed-walk \cite{UO15a}. DESOLVII \cite{VJC12}. detail \cite{OK10}. Detailed \cite{HWW12, MP15, Str15, VV16, BCT+17, CFFR15, LCC13, dSF18}. Details \cite{BGHBL18}. detect \cite{RMC16}. detecting \cite{DBJ11}. Detection \cite{Ber14, AKKK16, BLS17, BHH+10, BBH+15, BMG+15, HTY17, KME+11, LTP+17, NSHI18, OL12, ZBM11}, detector \cite{AANA1J2, BPM14, BMK11, PCEH15, TdAdS11}, detectors \cite{JulAM16}. determinantal \cite{Zou18}. determinants \cite{USOA13}. determination \cite{BR13, BHHMH15, JK13, JMG+17, KKCC19, MD10b, SBB+17, Ver16, VvAV+11b, WG16a}. determinations \cite{BCH17}. determine \cite{BG19b, BMF+19, BSW14, MD19}. determined \cite{Buc19, RU13}. Determining \cite{ACDdM14, VdLF14, MC10}. Deterministic \cite{UO15b, ALC18, Asi10, BL18b, GJLB12, TZG12, ZTG13, ZTG14}.
Disconnected [BWWM19, ACD+14a, BCS10]. discontinuities [DR12]. Discontinuous [SVS19, EW14a, Ein16a, HLLH16, HWS16, LLP15, LLMW17, Maz13, QWZW18, WP10b, YWX11]. discovery [LCRL10].

discrepancy [VD+12]. Discrete [CR12, EW16, ZXZ+19, AGMS15, ELDS14, GMRHRCME13, GMPFC+14, GJHF14, KV10b, Law19, LCH11, LYL+17, MD10a, NMS14, RTÅT15, SL17, SWL+15, Sza13b, Sza13a, Sza16, ZAHA10, EW14b, EEGW12].
discretization [CDBM16, DM17, DJ12, MLS10]. discretized [HLLH16, JYPA18, LHC+13]. discrimination [sL10]. discussion [Nem16].
discrete [CR12, EW16, ZXZ+19, AGMS15, ELDS14, GMRHRCME13, GMPFC+14, GJHF14, KV10b, Law19, LCH11, LYL+17, MD10a, NMS14, RTÅT15, SL17, SWL+15, Sza13b, Sza13a, Sza16, ZAHA10, EW14b, EEGW12].
discrete [CR12, EW16, ZXZ+19, AGMS15, ELDS14, GMRHRCME13, GMPFC+14, GJHF14, KV10b, Law19, LCH11, LYL+17, MD10a, NMS14, RTÅT15, SL17, SWL+15, Sza13b, Sza13a, Sza16, ZAHA10, EW14b, EEGW12].
discrete [CR12, EW16, ZXZ+19, AGMS15, ELDS14, GMRHRCME13, GMPFC+14, GJHF14, KV10b, Law19, LCH11, LYL+17, MD10a, NMS14, RTÅT15, SL17, SWL+15, Sza13b, Sza13a, Sza16, ZAHA10, EW14b, EEGW12].
MCL+17, Oti13, QL10, Ram14, SGM18, SVV19, SO19, SW12b, TD14, TT14, VDB14, WYH19, ZLL13, ZHC16, HKF+12, MCM+12, Wil19).

domain-decomposition [MRL18]. domains [Bot13, DS13a, GMHZ19, JYPA18, KSW12, OOK+12, SNB11, SK15].
dosimetry [ACdS13]. dot [BMNS14, CL10, KPK+17, YÇO15, ZHC16]. dots [Den10, GWL+17]. double [CWW10, GC10, GC16, GC18, GCK19, MD10a, Ram14, TTG11].
double-dispersive [Ram14]. Doublet [Ore19, ERS10c, ERS10a, ERS10b]. Doubling [CL15b, FGLB12]. Doubly [GH11, SEW12, SEW14, WW13].
DPD [MDPTK15, PTMDPK14, SH12a]. DPM [RB18]. Dr [OTC14]. DRA [LM16].
Drift [DOP17, CEP18, DJ12, Evs14, SISW10, SO19, XYM+13]. Drift-Asymptotic [DOP17]. drift-diffusion [DJ12]. drift-kinetic [CEP18, Evs14, SISW10]. drive [MTM14, SKK+19]. Driven [Dan10a, Dan10b, BJBC+14, De 11, GTL11, GAB+16, Hn11, HJL+14, IBKK11, LDW13, LHJ+15, MiH12, MS11, RHHF12, RTT+18, VPM12]. driving [BNAB11, THDH14].
dust [HCRD14]. DVC1 [Gar19]. Dyck [Br´a15]. dye [HG13]. Dynamic [ALS16, Bar12a, DSHS17, FRG12, SJ17, SUS+17a, SKSK13, AGMS15, Bar11a, BS15b, CD12, DF11a, DGMZ15, EDPZ19, HST+11, JFHA19, JOR+12, Krö19, KHH19, PE15, Sus17b, Sva12]. Dynamical [KLKR11, LLHC11, AG14, AddM+12b, ACdM14, BVC13, BG11, CZ18b, CZ19, Dan11, DT11b, Er14, GTK+19a, KP12a, KS19, Ki11, LS16, LMAB16, MW19, TS11, WHG+19, Wie18]. dynamically [CFCB12]. Dynamics [AS16, AD15, DRR15, wHwH11, JBM15, MDPTK15, Ngu17, NLB+19, SBPN15, TD17, WWR+16, ADD+11, ASPW13, ABB13, BS14b, Bar11a, Bar12a, BHS18, BBB+19, BPLML2, Bin13, BTL+17, BG14a, BVSG19, BWPT11, BKPT12, BY13, BCG+15, BBV+16, BMDP19, BENK+17, CHTT17, CMM14, C LKL11, CXH+15, CKS10, CH11b, DCM+12, Dat13, DLGP10, DEW16, DT11b, DHR14, DS13b, ENEO15, ER19, ESM17, FSH13, FCVH17, FRG12, Fil14, FJ19, Fu19b, FFHH11, GK11, GM11, Gio14b, GLR17, GNA+15, GAHP15, GTS14, GH15, HWdM19, Has11, HST+11, HL19a, HRC11, HG13, HYMN1, HXX+13, HLZ+13, HPN18, HBB+17, HWL+17, HM10, HM17, HDM+12, JWL13, JPH+14, JNN12, JNN13, JSLM16, JKIS16, KST14a, KKCC19, KPA+19, KDM11, Kon11, KK17, KKO19, KS15,
KCS+15, KR14, KHN19, KSY17, LGW13, Leô12, LS12b, LHZ11]. **dynamics** [LK15, LLZ+17, LBR+18, LSK+14, LDF+16, LS17a, MDW16, MIW+13, MDPTTC17, MM17, MTS11, Miu11, MNC15, MKB+11, MSH11, NBM+15, NBW16, NPAG11, NP19, INSK+15, ÖKC11, OKM12, OYK+14, PR14, PLCC12, QL10, QLE16, RC15, Rap11, RSFS18, RBB15, SV14, SGM18, SBH+14, SL17, SH18, Sco13, SCR17, SOM+13, SM16b, SKM15, SYE+18, SAG13, SJY18, SJY20, TM19, TK14a, TM17, Tan19, TST13, TL19, TS11, WJCZ18, WC10, WX11, WXW13, WXW14, WZHE18, WSI13, WSH+14, XQ19, YW17, YHCS11, YLQ+17, YK12, Zag14, ZZH18, ZS13, Zhe15, ZPr16, BJM15, BHND16, DLGP10, LBM+14]. **dynamics-based** [ZS13, Zhe15]. **DynaPhoPy** [CTT17]. **Dyson** [HB12, HM12b, SAW18].

e-infrastructures [GBS+16a]. e-Science [LSJ13, CKhN11]. **E6Tensors** [Dep17]. early [SCW+11]. **Earth** [MPS13]. Easy [DEW16, Sou14]. EasyFeynDiag [XW15]. EBT2 [ACdS13]. EC [MTM14]. ECE [MTM14]. **ECOM** [LC15]. ECPS [BPC12, Cip11]. ECR [MTM14]. ecs [BH16]. ECSim [GHBL18, GHMB+19]. ECSim-CYL [GHMB+19]. eddy [MRL19, TIMM13]. edge [MU11, CCLL18, FRFH10, FR15, LDR+17, SCB+17a, SPY11, ZDWM17, ZFR18]. **edge-based** [CCLL18]. Editor [Sco13]. Editorial [Ano18e, Ano18i, Ano18j, Sco16, Ano10b, Ano10c, Ano10d, Ano10f, Ano10g, Ano10h, Ano10i, Ano10j, Ano10k, Ano10m, Ano11c, Ano11d, Ano11e, Ano11f, Ano11g, Ano11h, Ano11i, Ano11j, Ano11k, Ano11l, Ano11m, Ano11n, Ano12b, Ano12c, Ano12d, Ano12e, Ano12f, Ano12g, Ano12h, Ano12i, Ano12j, Ano12k, Ano12l, Ano12m, Ano13b, Ano13c, Ano13d, Ano13e, Ano13f, Ano13g, Ano13h, Ano13i, Ano13j, Ano13k, Ano13l, Ano14a, Ano14b, Ano14c, Ano14d, Ano15b, Ano15c, Ano15d, Ano15e, Ano15f, Ano15g, Ano15h, Ano15i, Ano15j, Ano15k, Ano15l, Ano15m, Ano16b, Ano16c, Ano16d, Ano16e, Ano16f, Ano16g, Ano16h, Ano16i, Ano16j, Ano16k, Ano16l, Ano17a, Ano17b, Ano17c, Ano17d, Ano17e, Ano17f, Ano17g, Ano17h, Ano17i, Ano17j]. Editorial [Ano17k, Ano17l, Ano18a, Ano18b, Ano18c, Ano18d, Ano18f, Ano18g, Ano18h, Ano18i, Ano19b, Ano19c, Ano19d, Ano19e, Ano19f, Ano19g, Ano19h, Ano19i, Ano19j, Ano19k, Ano19l]. Editors [Ano10a, Ano11b, Ano12a, Ano13a, Ano15a, Ano16a]. EDRIXS [WFDK19]. education [LPBH11, Mühl14c, TN11]. Edwards [FFT+14, SJ17]. EERAD3 [GGGH14]. ef [DIP11]. ef-based [DIP11]. Effect [CHH+11, KSH11, SBL16, AG14, CFSK14, Kri12, OCL+13, QHZ+14, SWL11, SDJ+12, WBY11, XGH+19]. Effective [BCS10, VLD+12, CLC14, CM15, CGG+14, Cri18, Ern18, GR19, HHC16, IK19, Jab12, LSG+12, Num16, NRSVW12, ZTG13, ZTG14]. effective-mass [HHC16]. effectiveness [SS18]. Effects [iT11, BDK11, DGMZ15, GTSL+13, GB14, KZ11, KS16b, KKS18, LHSL14, Liu15a, MDPTK15, NLB+19, OOGP19, PBE14, VV16, WT12, dSVLP13]. Efficacy [DML+16]. Efficiencies [AMJ18]. Efficiency
Efficient [AS11b, AAT17, BCJW13, CMN12, CZ18b, CSRV13, FUSH14, FCVH17, GBP13, GST17, GGG16, GVS+15, GA13, HWG13, HXW+13, HAN+16, HPN18, HCH16, Ju17, JMG+17, KA17, Krö19, LDD+19, LHZ11, LAG+17, sLqSqL+13, MA11, MSRL10, NVAFO18, Qi16, QZ19, RA13, RF15, RZ19, SZ15, SHNM11, SOYHDD19, SCM14, SA14, THDS16, USAO13, VDF15, VBS+17, Wall11, WSI1a, WLI+12, WT12, Wil15, WWFT11, WAW14, WMI19, XYZX19, YZ19, dBCH14].

efficient [Nik12b, OK14, PMS+17, PM16, PS11, Pos19, QLN14, RLM13, RJKc16, SW13a, ST19, SR12, Shi16, SK14, SPP19, TSM16, TZM17, VdLF14, VLL+17, WWS10, Wan10a, WX11, WZ13, WLGY18, WDR16, YWOD19, Zou18].

efficiently [MHWH19, RTT+18, SZC+13].

eigenvalues [BW12b, DKO14, GCVA14b, HLW16, JZJ18, NJ18]. eigenvectors [JZJ18].
eight [PAS11, PS14]. eight-step [PAS11, PS14]. eigSUMR [CL16].

Einstein [ARYT17, CCW10, GM14, Hoh14a, JWC13, JWL13, KM+19, LCC+11, MT13, TZM17, VBMS17, WX11, WX14].

EIRENE [SK12]. Eisenbud [RA13]. EKHARA [CI11, CK19]. EIAM [ML+10].

elastic [ASEA14, AFIS12, CKSM+19, CHDCJA17, CGJ14, DMC10, GPS+13, Gri10, Jab17, Kas14, KGF18, LSCZ11, MLW+10, Maz19, MLK+17, MLK+19, QDZ+13, TH17, TW15, Voi13, WBY11, YZ10, ZC12, ZZ17a, GPS+13].
elasticity [MBF+10]. Elastodynamic [MAIAHV14]. ElecSus [KA18, ZKW+15]. Electric [OCL+13, RE12, CFSK14, GBYS18, JTN+11, JPK+12, LXR+18, MRL18, SCNJ18, ZKW+15, ZDM17].
electrical [CKT17]. electrically [HC16, Ram12]. electro [POG17, Wie18].
electro-dynamical [Wie18]. electro-mechanics [POG17].
edrodes [OBA10]. Electrodynamics [HBS+11, GH15]. electrolyte [Mar19].

electromagnetic [AHK+12, CC14, CC15, CSJ+17, CZF18, Fuk17, GLAC13, GMC18, GH15, GCHL15, JLM18, KOT12, KC14, KTE+12, LPRPR17, LHJZ10, LHC+13, LL19, LF12, MIW+13, MKU+12, MCM+12, ORI+10, Oti13, OVS15, PP13, PYW+14, Ram10, Ram14, SKK17, Sor19, SDL+16,
electromagnetically
electromigrative [DSK19].
Electron
[DSM+11, FP14, PB13, PMVG16, YSN+14, AKZ+13, ART17, ACTP15,
AG12b, BH16, BH17, BMW14, BSOG10, CYD11, CL11, CSK+19, CGRB14,
CRB+17, DCC+10, Du12, FYYK18, FUSH14, Gai17, GGHH14, GH11,
Hoh14b, Ihn12, IUM13, ID18, JA17, JGAL+13, JH15, KEH12, KK14a,
KCA+15, Kol15, KA17, LSf14, LRW+15, LZL11, Lit13, LB10a, LRR+15,
LRR+17, MHV17, MSPD12, MJKB18, NBM+15, NPM16, NGM+10,
ONS+15, PM16, PBE14, PR10, PR12, PBL+18, Pos18, RF16, RCCT16,
RFSF18, STT11, SMOB19, SW14b, SNG+11, SD14, SLW19a, SLW19b,
SS11a, SAHP15, TVGB15, TO10b, WS11a, YÇÖ15, YW17, VFV19].
electron-atom [BH17, CYD11].
electron-cyclotron [PBL+18].
electron-electron [DCC+10].
electron-loss [Lit13].
electron-molecule [ART17].
electron-phonon [PMVG16, CGBR14, KA17, NGM+10].
electron-positron [GGGH14, Kol15].
electron-surface [CL11].
electron-transfer [NBM+15].
electron/hole [Du12].
ElectronDiffraction [SLW19a].
Electronic [BDPM15, CJH11, CSL+13, GZL14, THJ+10, WWL11, BC10, Bjö11,
CLC14, CSK+19, Cor14, DO14b, FZ16, GWL+17, GCP+15, HKS10, HCC14,
Hol19, JWCW17, KKS18, LCY+11, LS19, LZP12, LSK+14, MED11, MNPY14,
MC17, PVPK+14, PVK+14b, PSL16, Ru18, RJK16, SS10a, TMA+15,
TC12, TG11, YFAT17, zYCG+18, YG12, ZDD15, XNK+16].
electronic-structure [LS19, MED11].
electrons [AzA13, BH14a, BH14b, Jab17, KTB17, KQVH17, MDF11, NNWS15,
OOR+12, RS12, Sit18, SLEF17].
electroosmotic [SS11c].
electrospinning [SS11c].
electrophoresis [SS11c].
electrophysiology [MFM15].
electrospinning [LPC+15].
Electrostatic [VPM16, BBL+13, CH19, CFB11, CB16b, FK12, GB11,
HZW+16, KC18, KK14b, LRR+17, MCW15, MRL18, SGDS16, YLQ+17].
electrostatics [CB14, LCHM10, LCHM13, YBK+11].
electroweak [BM19].
elegant [YL17, KPA+19].
Elegant [Kas14].
Element [FHTO17, Hak19, BKOZ16, BLAS19, BCM+16, CCL18, CMC+15,
CKSM+19, CAN11, CTL15, CRA10, EKDG15, FKS+19, GML15, GBP13,
GLW14, Ham11, IP14, JTH14, KMD12, Koh15, KM17, LW14a, LHJJ10,
LCQF18, MLS10, NMS14, Oti13, OVS15, OT11, PS11, RS12, RVDS16,
RDVS18, RTAT15, SW14a, S1D15, Sha13b, Sh16, SBH+12, TXZL15,
VDA116, WP10a, YRR13, Z0Z13, vSGB+18, Hak16].
element-Fourier [BLAS19].
element-spectral [LW14a].
elemental [HW12].
elementary [FBG10].
elements [ABB+16, AC13, Arb12, CPWZ18, CCHL11, CK12, CBB14, FNPMB10,
HS14b, LA13, MSRL10, PO14, Sar17a, Sar17b, SD10a, UFKB19, USOA13].
eleven [DJW+19].
eliminate [HHT14].
eliminating [SCM13].
Elimination [MBFB13, YXD+15].
ellipses [SC14].
elliptic [Boy15, GCVA14b, HVP+19, MCL+17, PS11].
elliptical [Hal17].
ELMAG

Energy
[AAA+16, AK15, BG19a, BvH15, CMR17, GHMB+19, MGL13, NJ18, RtV16, XYX19, AG14, AHH+19, AKV18, BMC+11a, BT17a, BDKS10, BH14a, BH14b, BUJ15, BKA+14, BIT12, Buc19, CLH+17, CDTV10, CHDCJA17, CC14, CC15, CXG+19, DCC+10, DGPW11, Den10, DR12, DFM+15, Duf16, Eme11, ECSV16, EFK+19, FT18, FGGM11, FS17, FZY13, GBD10, Gio18, GZW17, GCVAa14, Hali12, Hoh14b, HEPW13, HS16, JPCG15, KTB17, Ker17, KAR+15, KK14a, KCA+15, Kra11, LA+10, LCY+11, LL19, MD10a, MD18, MSPD12, MMT+11, Miy15, NRSV1212, PB13, QZ19, QZU19, RPL+14, RFPM+17, Rom15, SSF+14, SA14, TAFD19, TM14, TVGB15, TS10, UA17, WRFS15, WS11a, WXL13, WX14, WZHE18, WP10a, WYH19, Wie15, Wil15, YZ16, ZPH+15, ZDD15, ZKS+18, GHBL18].


Enhancement [VCMS+13, CLY11, EEW12]. enhancements [LK+18].

ENO [AAD14]. ENO-flux [AAD14]. Ensemble
[TDL+14, BALV16, BG13a, GA15, MHO+17, MHR+13, PA13, ZKW+15]. ensembles [CRNK12, FD13, KRA18b, MJB11]. entangled [JWC18].

entanglement [RLL12]. enthalpies [ZZH+16, ZMC12]. entire [Wei11a].

entropies [ZMC12]. Entropy
[TW11, CHDF10, Les16, LLG17, PE17, VB19]. entry [JXTS16].

enumeration [CS16]. envelope [ TL19]. environment
[CPW17, GIO14b, JVR12, RTT+18, SUS+17a, WP10a]. environmental [GMPFC+14, KKS18]. EnvironmentalWaveletTool [GMPFC+14].

environments [FS17, GBC+18, NMCR15]. EPAP [SHW18]. EPAP-1.0 [SHW18]. EPCM [PS14]. ePDF [SLW19b]. epidemic [CF17]. epitaxy
[ZZH+19]. epsilon [GM17, GS14, HL13, Pra17]. Epstein [Ram10, Yan09]. EPW [NM+10, PMVG16]. eqtools [CFW17]. equality [ON11]. Equation
[LB10b, AL17, Asi10, BB15, BALV16, BK16a, BAR12b, Bot12, BMBC+17, BB13b, CWS11b, CVK+17, CYN19, CZS10, CC10b, CC12, CHZ18, DG10a, DS11b, DZ13, DGST17, DSP15, DM12, Eba13, Exl17, FTI18, Fil13, FGLB12, FGG11, GS15, GVS+15, GA10, GG16, GBSY18, GTG+11, GCVA14b, HLS+17, HP14, HC16, HC17, HWS16, HM12a, HAK+14, HJ14, HS14b, HH11a, HDZ14, HCSW10, IKS19, Ixa10, Ixa12, JC16, JL10, Jiw12, Jiw15a, KL17, KH12, KN13, KBSP12, KP14, KR14, KYSV+15, LD10a, LD10b, LV14, LZZI10, LS12a, LCKM14, LLXK16, Lin13, LBB+16, LYS+16, LY16, MC16, MGL13, MGL16, MC12, MLS10, ML14, MN18, MA11, MM10, MM12, MJKB18, ON12, OILK17, ORS+14, OAKS11, OK14, PSB11, PSBT12, PAS11, PR13, PM16, Pla16, QSC14, RM10a, RHBH15a].

Equations

[QSB19, AAD13, ACCB13, APV10, ABB13, AD14, AD15, ABDR17, AG12a, ABH+19, ADdM12a, ACDdM15, ACDdM19, BSM13, Bar11b, BKZ16, BLAS19, BCT17, BK11b, BB10, BB13b, BAK+15, BAK+16, BAK+17, BHW+12, CJD15, CR13, CDTV10, CB13b, CSJ+17, CCK+13, CBB+10, CM14a, CEF16, DT10, DT11a, DN13, DM17, DJ12, Dem13, DJH13, DJ14, DSP15, ENEO15, EW14a, FDZ17, FBBH17, FF11, FSC13, Fon12, GML15, GJ14, GJLB12, GM17, GX15, GMHZ19, HVP+19, HLLL16, HK12, HHC+10, HB12, HM12b, HCHW11, IH11, JPS10, JK10, JC13, JC14, JYPA18, JCL+18, Jiw15b, JSLM16, Kan14, KMM13, KD17, KO14a, KZC+10, Kra10, CL12, Lev19, LWZ14, LLP15, LST15, LPKH19, LSzSZ14, LLL12, LLL13, SL10, LRSS19, LSSW14, MDHD18, MJB+10, MHWH19, MWCY14, MZE13, Moh14, ICD13, MNNO11, NO14, NO12]. equations

[PKT15, PDRG10, PTS12, PSL+17, PE15, QYM11, QA13a, Ras09, Ras17, RBB15, SFV19, SAW18, SDM+12, SDS+17, SK15, SW14c, SP18b, SCLW16, SMdONF14, Sta11, SSK+13, SL14, TD14, Tia11, TYH+15, VSO+13, VBC+12, VJC12, Wan10a, WZ13, WYSW10, WT15, WFX18, XYK12, YWX11, YTYA17, YQM12, ZWC+19, Zou18, dTOV18]. equiangular [ME18]. equidistant [LS15b]. equidistributed [GN14].

Error-controlled \[Exl17\]. ES2MS \[XNK + 16\]. escape \[DS15\]. 

error-controlled \[Exl17\]. ES2MS \[XNK + 16\]. escape \[DS15\]. ESI \[LZ17\]. 

ESP \[SGDS16\]. especially \[SHW18\]. ESPRESSO \[BK\textsubscript{C} + 17, MMSF + 15, CGJ14, GTK + 19b, HBL + 13, JP10, GSZ13, KST14a\]. essentially \[AAD13\]. ESTEST \[YG12\]. estimates \[BKV16, KKK + 15, LS15b\]. Estimating \[Asc10, AM17, GFB + 10, GGF + 13, JCL10\]. Estimation \[DS15, KTA12, ABH + 19, BBB17b, DMP18, EVB14, IBB18, SM14, Sha18, TW15\]. Estimator \[Asc10, SAA + 10\]. etched \[VSG17\]. etching \[MFG + 13\]. 

eTextBooks \[LPBH11\]. Eucb \[TS11\]. Euclidean \[TGUvS19\]. Euler \[SBvD13, QYM11, QSB19, SP18b, YWX11\]. Eulerian \[JBG + 16, JBG + 17, PUO14\]. European \[AGL11\]. EUTERPE \[SSS + 11\]. Ev8 \[RHBH15a, RHBH15b\]. evaluate \[MNV13\]. evaluating \[LHJ + 15, RLL12, SZC + 13, UA17, WDR16\]. Evaluation \[AHK + 12, ACD + 14a, AC13, ADT + 19, AG12b, BBUY13, BDJS18, BCH13, BHJ + 15, BHJ + 18, BvH15, CZ17, CSR13, Deg15, FSH13, GBRB11, HJL + 14, KZ14, KHN19, LAA + 10, LSYZ12, MGB18, MSR10, MR13, MN16, MFG + 13, PZL + 19, PVK + 14a, PVK + 14b, Str15, TO10b, Yi11, ZC12, vH11\]. evaporation \[TB14, XLX + 15\]. Event \[DDM14, GGGH14, KBT + 14, MM11, TMD11, VRV15, VRV18, BPSS18, BABC19, CKS10, CK19, DIR + 19, De 11, dAFsVM12, Gin10, GTL11, Kas14, KR13, RHHF12, Sha16, YWW13, vH18\]. Event-based \[TMD11, BABC19\]. Event-by-event \[DDM14, VRV15\]. event-driven \[De 11, GTL11, RHHF12\]. Events \[EF + 10, AFIS12, BDC + 14, Bin13, HWT10, WW12\]. everyone \[Kap16\]. EVO \[BK13a\]. EvolFMC \[JPSS10\]. Evolution \[Cho11, HLS12, ABH + 19, BCR14, BCT17, Bot11, Brál15, CJJ + 17, FSJ + 16, GM16, HK12, Hon10, HWC11, JPSS10, JMG + 17, MBRV + 13, SW11, VPM12, XLX + 15\]. Evolutionary \[BK13a, AFZ17, AFZ18, ATCZ19, FLA + 16, LZ11a, LZ11b, LOSZ13, SH18, Wie18, dASJC + 19\]. Evolver \[Ore19\]. evolving \[FGC + 11, PHA18, US16\]. EW \[BS13b\]. Ewald \[KR16, LHZ11\]. Exact \[CS16, ID18, JP11, MP11, MTO15, PMMW15, SH12b, SH16, BKC + 17, CL10, HCH16, HW12, LKL11, Lee18, Pla16, QLN14, SA15a, Wei99, Wei11a\]. exact-exchange \[HW12\]. EXAFS \[PCVZ11, TKP12\]. Examining \[WAHL13\]. exascale \[AGL11, DdJC + 19, KY14\]. excellent \[DSW + 15a\]. Exchange \[NHD16, ABC + 18, AAB + 10b, BKC + 17, Boe18, DG10c, GXF + 15, GJB11, HW12, IIO16, IFOI18, JL19, JJ15, LK15, LKT + 16, MOB12, RZ19, UO15b, UO15a, WISA11\]. excitation \[BP12, CM15, GVS + 15\]. excitations \[MC17\]. excited \[BP12, CWW15, Er14, GH11, LH11, LMAB16\]. exciting \[PGD17\]. exciton \[VBMS17\]. exciton-polariton \[VBMS17\]. excluded \[BH + 12, CHNS18\]. exclusion \[BBH + 10, BBH + 11a, LTL + 12\]. executing \[LYJH19\]. exemplar \[JTP15\]. exhaustive \[TC11a\]. ExoData \[Var16\]. exoplanet \[Var16\]. expanding \[HM12c, LP15\]. Expansion \[JDG12, PEM19, AQJ10, AK13b, CSPAD10, Deu16, FLW17, GS14,
HWG13, HvWT17, HK15, HL13, IKS19, IUM13, KZ14, Per14, Pit12, Pre18, Ros16, SKFP16, SGW17. expansions [Eks11, GB11, TKR13]. experiment [Ano11a, CKhN11, DDM14, DMH16]. experiment-computing-theory [CKhN11]. experimental [CRNK12, KSH14, OBM19]. experiments [CHC+11, GSB+14, KD16, DMH16, VLD+12, WJCZ18]. explained [JKG+18]. Explicit [Bla15, VEB+18, XQ19, AH13, Ber16a, Ber16b, CW16, DBMR18, DM17, DJ14, FG13, GFR14, KZC+10, KAS12, LCE+13, QSC14, RL10, SCLW16, SS10b]. explanations [Eks11, GB11, TKR13]. Exploring [Bla15, VEB+18, XQ19, AH13, Ber16a, Ber16b, CW16, DBMR18, DM17, DJ14, FG13, GFR14, KZC+10, KAS12, LCE+13, QSC14, RL10, SCLW16, SS10b].
field-aligned [DXY+19, HO13, LDR+17]. field-particle [CSJ+17].

field-theory [DF13, Nut14]. fields [Asc10, BMW14, CFSK14, CSP+17, DOP17, Dua12, GH15, GBSY18, HSD17, JPK+12, KOT12, Ki10, LS19, LSJ13, LR13, LR16, ÖN14, PQTGS17, PM13, SW14a, SW14b, SAHP15, Tau10, TC11b, Wai12, ZYZ15].


FinFET [LCH11]. Finite [ALA+19, DJ12, DSPJ10, FHTO17, Hak19, HZW+16, KST14a, MAIAH14, OBH10, OOGP19, SBvD13, TMA+15, Wil19, Zag14, AAD13, AS11a, ACTP15, BKOZ16, BM16, BMNS14, CCLL18, CSM+19, CAN11, CTL15, CW16, CCHL11, CRA10, Cor14, DT10, DM17, Den10, EKDG15, Evs14, FNPMB10, Fu19a, FKS+19, GML15, GBP13, GS17b, GSI7a, GB14, GL14, GMH19, HE13, Has11, Hsu11b, HZ11, IP14, JK19, JLM18, KCT15, Kobi13, KMD12, Koh15, KM17, KVW11, LOL+16, LD10a, LA13, LW14a, LV15, LH1JZ10, LLKX16, LYX+17, LHH+12b, LOK+18, LNP+17, Ma19, MB12, MSS+16, MA15, MBAJ11, MLK+17, MLK+19, MBFD12, ICD13, Naz12, ÖN14, OWS+14, Oti13, OVS115, OT11, PVK+17, PB16, QLN14, Ram14, RS12, RVDS16, RDVS18, RC13, RC16, SW14a, SP16, SLK19, SC15, SHL+11, SBH+12, SAN18, SCG11, TT14, Ter17]. finite [TYH+15, TXZL15, VLPPM14, VDB14, VDAH16, VV16, WZ13, WFZG19, WP10a, Wit14, XGH+19, YRR13, YXT+15, YQM12, YQM14, dDYK+18, Hak16, HKF+12, LYP14, MCM+12]. Finite-Difference [Wil19, DSPJ10, TMA+15, ACTP15, CW16, FNPMB10, GS17b, GSI7a, GB14, HE13, MSS+16, MBFD12, ICD13, RC13, TT14, VDB14, VV16, Wit14, MCM+12].


finite/infinite [SBH+12]. Finsler [YE14b]. FIRE [Sht17]. FIRE4 [SS13c]. FIRE5 [Smi15]. First [BKV16, EY11, FWZ+12, PBMAD12, SQL110,
ADdM12a, ACDdM14, ACDdM15, BP12, Boy15, CSL+13, DdMN16, ELL+17a, GPS+13, GM18, GCVA14b, HL19a, JLA+14, LZL11, LSI17a, NS15, SS13b, SWL11, VDF15, ZZ17a, ZFZ19. First- [BKV16]. First-principles
Four-quark [ARAB+17]. Fourier
[FCC15, J LW+19, RJW+19, AQJ10, AH13, BNPPD19, BK11a, BLAS19, BCM+16, CZ17, C21+18, GMF+17, HbotRC15, KZC+10, LDF+16, MJB+10, PCGM14, RJW+19, RWKSI5, SS11b, SBvD13, TO10a, Trö11, WLM14, YZ16].

Fourth [BK16a, MC16, XYK12, BIT12, DZ13, HZ11, KMS14, LLXK16, IllsSZ14, NS15, PZZL19, SB11, SS10b, UNK12]. fourth-degree [UNK12].

Fourth-order [BK16a, MC16, XYK12, BIT12, DZ13, HZ11, KMS14, LLXK16, IllsSZ14, NS15, PZZL19, SB11, SS10b, UNK12].

FOXTAIL [TJH17]. FOXP [FWZ+12]. FPGA [KHZ+18]. FPGA-based
[ADdM+12b, EBCBG17, GTL11, GSB+10, GGF+13, MFLY19, RU13, GGF+13, GES13].}

fraction [BMS+16, LHG+19, ZTG13, ZTG14]. fractional
[CYN19, CZZ+19, Dev12, DS15, GMHZ19, HZ11, JL10, LLL13, MDHD18, PSB11, PSBT12, SW12b, SMK19, YQM12, YQM14, BK13b].

fracture [RT˚AT15, VLM11, VKLM11, VLM11]. FracVAL
[MFLY19].

fragment
[JWCW17]. fragmentation
[BG14a, DG16, HK12, MFLY19, RJLL16, SA14, Sit18, Sja11, Sva12, TOB+14, TE18, TVT+16, WCT11, YZWR14, ZH16, ZHL11, CF16, FCC15].

free-boundary [FBHB17, Hon10]. free-form [Zhe15]. free-software
[ORI+10].

free-standing [ACTP15]. Free-surface
[ACMM10, CPR12, GZW19]. free-surfaces [TKJ19]. freedom [Er14].

Freeze
[BBG+16]. Freeze-in
[BBG+18]. Frenkel
[AMM11].

frequencies
[KMD12, RVA14, RJ12, YFat17]. Frequency
[HIC17, BDGM+17, GLAC13, GHB14, Hsu11b, KMD12, KM17, KSY17, LY16, LAC+17, MCP+11, Oti13, PPP13, Ram10, SVG10, TSIM16, TIM+16, TUY15, WCT11, YZWR14, MCM+12].

free-boundary
[FBHB17, Hon10]. free-form
[Zhe15]. free-software
[ORI+10].

Freeze
[BBG+16]. Freeze-in
[BBG+18]. Frenkel
[AMM11].

frequencies
[KMD12, RVA14, RJ12, YFat17]. Frequency
[HIC17, BDGM+17, GLAC13, GHB14, Hsu11b, KMD12, KM17, KSY17, LY16, LAC+17, MCP+11, Oti13, PPP13, Ram10, SVG10, TSIM16, TIM+16, TUY15, WCT11, YZWR14, MCM+12].

fresh
[Fri19]. FRESHS
[KBT+14]. Fresnel
[JTP15, VLZ17]. FRETE
[EBDM17, HGL13]. FREFA
[VRV15, VRV18]. fRG
[Roh16]. FRIB
[HDF+19]. friction
[AMM11, HST+11, RU12]. frictionless
[LDW13].

Friedel
[TW11]. friendly
[CSF13, RFPM+17]. fringe
[MB12, MB12].

FRODO
[AC13]. frog
[AZM14, HP14]. front
[Ano16m]. fronts
[KR14].

Frozen
[LY16]. RCGT16]. frozen-core
[RCGT16]. frustrated
fuzzy

Grazing [MPSV15]. Grazing-incidence [MPSV15]. greedy [SJ17]. Green
[Ant20, AK13b, CYOS19, JLM18, KK16a, KDM11, Liu13, PLF+17, Pla16,
SGSG19, WAHL13, XD13, XHD15, YOM+19]. Greenwood [CKT17]. Grid
[KK14b, ACM19, BH17, BPSS18, BAR12b, BOGL17, CBGY17, CB16b,
DF11a, DCU+19, FZY17, GBN17, GXF+15, GLHG12, HP14, HvAS+13,
HZW+16, HKK11, KDP+14, KK14a, KKL+18, KV10a, KRB19, LWRQ16,
ME18, NVW+13, PHT+19, RC11, Ser17, TH17, TIMM13, WRFS15, WQ18,
YRR13, ZS13, BCJ+11, LHL11, MLR10, MWL+10]. Grid-based
[KK14b, KK14a]. grid-computing [KDP+14]. grid-convergence [CB16b].
grid-resolution [CBGY17]. Gridless [BCDP18, OCF10]. gridlock [wH15].
GridMD [MV11]. grids [ALA+19, BHS15, Cha19, DJ11, DHS14, FRFH10,
GN14, GSKM14, HWS16, JBG+16, JBG+17, LYP14, LHF18, MTO15,
Sch18, SC15, SGL+11, TK19, YJK11, ZNT15]. GriF [MLR10]. GRLW
[MM10]. GROMACS [PSMS14, PSMS15]. GROMOS [SCC+12]. Gross
[ABB13, AD14, AD15, ABDR17, CR13, JCL+18, KYSV+15, LBB+16,
LYSS+16, MGL13, MGL16, SSB+16, VDAH16, VYV+12, YSVM+16,
YSMA+17]. ground [CR13, ELL+17a, JWL13, MH11, WX14, WGG16].
group [CLKK11, FSC13, Fon12, HB12, JC16, KK16b, LSSW14, MK19,
MSHL15, MSHL17, NBN+14, PO14, RGH10, Roh16, Sta11, Trö11, Ver16,
WPAV14, ZAH10, LSR+17]. group-correlations [CLKK11].
group-theory [ZAHA10]. groups [Nik12b, SK10]. Grover [LYZ13].
GROW [HKVR10]. grown [RDP14]. growth [FBG10, JEF14, IK19,
LLSK17, LRSS19, MAWK18, MS11, RHO11, ZKG+18]. GSGPES
guide [Hah12]. guiding [Nis11, PCGM14]. guiding-centre [PCGM14].
GUIMesh [PG19]. guise [ZF15]. Guumel [PFFK19]. GW
[DaDC+19, DSLP11, KMM+19, KOK17]. gyro [SSK17]. gyro-kinetic
[SKK17]. Gyrokinetic
[DXY+19, KG+16, DJ14, GAB+16, HKJ+12, JBG+16, JBG+17, KS16b,
KH12, MIW+12, MIW+13, MW1+19, MKR+12, PDJ10, SISW10].
gyrokinetics [DGS+19, ZW15]. GYSELA
[DGS+19].

H [BL18a, KKS18, PCEH15]. H-COUP [KKS18]. H1 [GRZ10].
H2SO4V [PZY16]. H5MD [dBCH14]. Haar [Jiw12, KMM13]. Haas [RJ12].
Hadron
[BSW12, ACD+14a, AH+19, BDC+14, BHZ13, CCN17, CM14b, DDKM15,
Gao13a, GLS+13, Gri10, OK12, OK18, SYZ+12, SYZ+13, ZYL+15, Tom16].
hadronic
[CWW10, CWW15, CPWZ18, GLPQ11, KKK+15, VS19b, WW13, ALL+11].
hadrons [Kol15]. hadroproduction [WW14]. haggies [Rei10]. Haldane
[BDK11]. half [HM12c]. half-integer [HM12c]. Hall [VPM12]. Hall-driven
[VPM12]. halo [JH11]. HAM [ZLL13]. Hamiltonian [ART17, Alv12,
CWI19, CYSL12, CSJ+17, Chr18, CKCS13, DPB16, Gar19, LV14, MBFD12,
DPHB17, SP16, SEGP15, SLR16, USOA13, Vit19, WXL13, YZ16.

Hamiltonians [BM16, CNMC10b, HHC16, LJB+16]. hand [STK10, TKS10].

[BD14, ABRS19, BDP16, BDV11, GKM10, GSMK17, GBSY18, HLLH16, LLP15, sLqS-L+13, ME18, MBGK11, MGK13, dIRL11, PSL+17, SDM+12, SDS+17, SS11a, SMGK14, SSK+13, TVT+16, VB19]. harmonic-oscillator [GKM10, MBGK11, MGK13, SDM+12, SDS+17]. harmonics [ASS13].

Harness [KBT+14]. Hartmann [ZOZ13, ZNT15]. Hartree [PSL+17, SW14b, SDM+12, SDS+17, ZF16, BM16, BMW14, DG10c, Fis11, GBD10, JZZ+19, Kob13, KS12, OT11, SEW12, SEW14, ZYZ15].


HAWK [DDKM15]. HDECAY [CG+14, DKMS19]. HDMR [LLX14b, LWL12]. heart [ZBMM11]. heat [CB15b, CZF18, DBMR18, Fri10, Gor19, HWS16, JYPA18, LWZ14, MLS10, MK10, iSYS12, SR12, SN16, XZF12, ZMCT12]. heat-bath-inspired [Fri10].


HELAC-Onia [Sha13b, Sha16]. helical [LFG14]. helices [HFSK12].

helicity [CJHR11, dALM+12]. helicon [ML14].

helium [CHH+11, LB11, LB12, Min11, SQA+15, WFM14].

helium-like [LB11, LB12]. Helmholtz [CC10b, CC12, OK14].

helper [WMK11].

hemodynamics [GVR19]. HEP [CMSV14]. HEPMath [Wie15].

HepML [BDKS10]. Hermit [CBDM16, GMHZ19, LDF+16, PDRG10].

Hermitian [BW12b, CDMCN11, JK13, LWW10]. HERWIG [KRW13].

heteropitaxial [Dan14, Dan16, Dan17, Dan19]. heterogeneous
[CF17, DCVB+13, FKS+19, GFX+15, LSG+12, LSYZ12, MPM14, San11, SCJH19, TKP15, VLPMM14, XLX+15].

heteropolymer [Fri17].

heteroscedasticity [ICPD16]. heterotic [NRSVW12]. Heuristic
[CNCM10a]. hex [BH16]. hex-ecs [BH16].

hexagonal [CCL15, KLO+19, TMA+15, VLM11].

hexahedral [FXZ+14]. HF
[RHBH15a, RHBH15b].

hftho [PSL+17, SSK+13]. hfodd
[SDS+17, SDM+12]. HFOLD [FEH11]. HIBRA [JuIAM16]. hidden
[KZ11].

HidSecSOFTSUSY [KZ11]. hierarchic [CHDF10]. Hierarchical
[Hoh18, Roh16, CB15c, DAW+19, KN13, MCW15, OKM12, QJF16, ZMvE+13].


hierarchy [GGG+19]. Higgs [EMW19, ERS10c, Ore19, AC17, BGM+14].
BM19, BBH+10, BBH+11a, BHZ13, CGG+14, DDKM15, DLM18, ERS10a, ERS10b, FEH11, HP17, HLM13, KKS18, MGS13, SAE+16. Higgs-mass [HP17]. HiggsBounds [BBH+10, BBH+11a]. High [AAA+16, AQJ10, AHJ+19, Ano19m, BG19a, BCT17, BvH15, CLHL19, Ein16a, GS15, Gai17, GBF14, HS19, HvWT17, JTW+17, LVL12, LSR+17, MF17, MD10b, ML16, DPHB17, NS15, NO12, PHA18, RHW+12, SSH+13, SA15b, SBPD19, SMGK14, TY10, WGVPL17, ZBN+19, AAD13, AAD14, Ara14a, Ara14b, AH13, BDT15, BL19, BDKS10, BH14a, BCH17, BCDP18, BWPT11, BKPT12, BY13, BMG+15, BDGM+17, CFMR10, Cap13, CNS+18, CZ18b, CMJ+11, CD12, CL15b, CR12, CBYG17, CBY18, DBMR18, DGPW11, DRR16, DJ11, DM17, EZBA16, ECD+10, EGT+18, FTF18, FG13, Fu19b, FB19, GLAC13, Gar19, GA10, Hah12, HEPW13, HYM11, JH11, JVR12, KB19, KVV19, Koh15, KSY13, LV15, LM16, LWZ14, Liu15a, LJ+17, LWJV18, LQJ11, LS19, MTO14, MNO11, PE17, high [PVK+17, POG17, Qia10, RRCSCJ10, RLS16, SHW18, Sh14b, SHZ13, SLK19, SCNJ18, SCM+18, SPSP18, Tia11, TGH+16, TS10, VL19, VMGP+19, VV16, WWS10, WC10, WSL1a, WWC+16, WvSL13, WLM14, Wie15, WWR+16, XHLUF+18, XQ19, YvOSM15, Zag14, ZD15, ZF14, ZOZ13, ZZ17a, ZF19, ZW15, ZNT15, DBLF16, OBM19]. high-accuracy [AQJ10, CLHL19]. high-density [HYM11]. high-energy [Hah12, WS11a], high-entropy [PE17], high-frequency [BDGM+17]. high-intensity [SCNJ18]. high-level [MVS15]. high-level/high-performance [MVS15]. high-nuclearity [MTO14, RRS17]. High-order [BCT17, MF17, MD10b, RHW+12, SSH+13, SA15b, TY10, ZBN+19, AAD13, AAD14, BL19, Cap13, DBMR18, DJ11, EGT+18, FG13, GA10, Koh15, LV15, LWZ14, LWJV18, Ma19, MLK+17, MLK+19, PKV+17, Qia10, Tia11, VL19, VV16, WWS10, WWR+16, XHLUF+18, XQ19, Zag14, ZF14, ZNT15, DBLF16]. High-performance [GS15, Gai17, JTW+17, LSR+17, DPHB17, Ara14a, Ara14b, FB19, MVS15, SHZ13, VMGP+19]. high-precision [BD15, KB19, LM16, SLK19]. high-pressure [SHW18]. High-resolution [PHA18, BMG+15]. high-speed [CNS+18, VL19]. High-temperature [HvWT17, Liu15a]. high-throughput [ZZ17a, ZFZ19]. high-velocity [JH11]. Higher [ABdA15, CD15, KO14a, WP10b, ACDD15, Cha16, CLJ12, DKS14, MK19, MO14, SR12, SC16b, SB11, VJC12]. Higher-order [CD15, KO14a, Cha16, MK19, SC16b, SB11]. Highly [CH11b, HLTW19, LBP15, MTM13, MGR16, PFFK19, dSF18, BL19, BY17, GRLS18, HBP+15, MSI+10, MLS10, SEW12, SEW14, WQ18, WDR16, YBN13]. highly-efficient [WDR16]. Hiking [BrA15]. Hilbert [ERPDFLS15, SA15a]. Hilliard [LLXK16, XYZX19, YZ19]. Hirshfeld [EPP12]. histocompatibility [HFSK12]. Histogram [FLE19, CMRVVR+14, CMRVVR16, GGG+19, Sha18, VK14].
Histogram-free [FLE19]. Histograms
[AMR15, Gag12b, Gag12a, GH18, GHN19, RK19]. Hitting [KMS19]. HMC
[CD513b, KP12a]. HNLS [SB11]. HOC [TY10]. Hole
[DIR19, Du12, Gin10, LZL11]. Holm [ZST11]. Hologram
[BGL14, JTLP15, MFS114, WSO12]. Holograms [BD10]. Holographic
[FBN13]. Holography [MSI10, ZSW17]. Hom [KAR15].
Homogeneous
[Asi10, BK11b, MSHL15, MSHL17, PN15, SCNJ18, SLEF17, vMB14].
Homology [DS13]. Homotopy [CS10, PSBT12]. Honeycomb [MHH11].
Hooke [RGKR17]. Hopf [Bor14]. Hopping [LM19]. Horizontal [ME18].
Horn [BK14, BK15]. Horn-type [BK14, BK15]. Horner [KPVvdH13].
HOS [DBLF16]. HOS-ocean [DBLF16]. Hoschen [FKH15]. Hosphe
[CDTV10]. HOTB [GSMK17, SMGK14]. Houches
[ABB14, BBC13a, MHA12]. Householder [NLS17]. HP
[LWL11, Roh16]. hp-fRG [Roh16]. HPAM [EPP12]. HPC
[DDJC19, GBK12, HL18, OLG16]. hPIC [KC18]. HPL
[Mat12]. HRMC [MHV17]. HRMC_1.1 [OPO11]. HRMC_2.0 [OPS13].
HRMC_2.1 [OPR14]. HTC [CC14]. Hubbard
[KLO19, MHH11, SA15a, SH12b, US16, WDL11]. Huge
[WSI13, BM11b]. Huge-scale [WSI13]. Hut [WSH12]. Huygens
[VL17]. Hybrid
[BCTP18, GILB12, KS18, LRW15, ML17, OPR14, SSB16, SS11b, TH17,
VCMS13, WDL11, WLZ17, YHL11, dIRM18, AAD14, BMC11a, BD12,
BT17a, BWPT11, BKPT12, BY13, BMDP19, CW16, CL13, DCU19, ES11,
FGR14, FKS19, GWL17, GC12, G119, Gw12, HL16, JTN11, J19,
Jiw15a, KK13, KKL18, Kro19, KC15, LCY11, LHC13, LHH12a,
LSYZ12, MIW12, MM17, MKU12, MSM11, MJKB18, PZZL19, RTT18,
SZ15, SP18b, SS13b, SPS10, SYE18, SGSG19, TFBW14, WLGY18, WC13,
WAW14, YVOSM15, YLQ17, YXT15, ZC12, ZBN19, GBR14, HKZN17,
HKZN19, KLO19, OPO11, OPS13, Urb18]. Hybrid-node [ZBN19].
Hybrid-optimization [WLZ17]. hybrid-stabilized [JT11].
Hybrid-symbolic [SZ15]. hybridisation [SKP16]. Hybridizable
[SV19, HLLH16, LLP15, LLMW17]. hybridization
[AKF13b, HG13, SGW17, VPP12]. hybridizations [SGW17]. hybridizes
[YLY19]. Hydrodynamic
[MOD13, BOGL17, GZ17, HKB14, LCH11, LKW11, WSH12, ZD15].
Hydrodynamical [NAQ16, QA13b]. Hydrodynamically [APC14].
Hydrodynamics
[CDR15, FHT017, GRLS18, KS16a, DCVB13, DCGG13, EKK14, GLB13,
GCH18, HLS17, HNP18, JX16, KPPC13, MRSD15, NFS15, RH17,
RTA10, SC15, SC16b, SN16, WRR18, YK19, dASJC19, dIRM18].
Hydrogen
[WBY11, BP12, BH14a, BH14b, BH16, BKS15, CLHL19, JTT11,
LH11, MFS10b, SW14a]. Hydrogen-like [BP12, MFS10b]. Hydrogenic
Hydrokinetic [MBS+10, BBF+13].
hydrothermally [CLY11].
Hylleraas [JH15].
Hyper [GGF+13, GES13].
Hyper-Fractal [GGF+13, GES13].
Hyperbolic
[AOK15, AAD14, BB10, CGM17, DJ11, Ert15, Jiw15b, PKT15, RD10].
hypercubes [TOB+14].
[HYPERDIRE [BK15, BKK13, BKM14, BK16b, GES13, HL13, HM12c, BKK13, BKM14, BK16b].
hyperlogarithms
[Pan15].
hypersonic
[BTC+17, PBD+15, TIMM13].
hyperspherical
[AV13].
HYPERgeometric
[BK15, BKK13, BKM14, BK16b, GS14, HL13, HM12c, BKK13, BKM14, BK16b].
Hyper-Fractal
[GGF+13, GES13].
Hyperbolic
[AOK15, AAD14, BB10, CGM17, DJ11, Ert15, Jiw15b, PKT15, RD10].
hypercubes
[TOB+14].
HYPERDIRE
[BKM14, BKK13, BK15, BK16b].
Hyperfine
[ZE11, ZE16].
HYPERgeometric
[BK15, BKK13, BKM14, BK16b, GS14, HL13, HM12c, BKK13, BKM14, BK16b].
HypExp
[HM12c].
hypotheses
[Zlo14].
Hyper-Fractal
[GGF+13, GES13].
Hyperbolic
[AOK15, AAD14, BB10, CGM17, DJ11, Ert15, Jiw15b, PKT15, RD10].
hypercubes
[TOB+14].
HYPERDIRE
[BKM14, BKK13, BK15, BK16b].
Hyperfine
[ZE11, ZE16].
HYPERgeometric
[BK15, BKK13, BKM14, BK16b, GS14, HL13, HM12c, BKK13, BKM14, BK16b].
HypExp
[HM12c].
hypotheses
[Zlo14].
PBMAD12, PM16, PMS+15, PIH11, QLE16, RRCSCJ10, RU12, SL16].

implementation
[SCC+12, SSF+17, SBPN15, SLK19, Smi15, TKP15, TL19, TS19, TTT16, US16, VS19a, VB19, WMRR17, WMR19, WC15, WPAP14, ZMJ13, vRWS14].

implementations [CSV+18, DCGG13, HSK+12, Hol19, THJ+10].

implemented [FVH18, MOD13, PGD17, SS18].

Implementing [BWPT11, BKPT12, BY13, QJF16, BF16, BCPS11, MJKB18, SOPS12].

implements [MZE13].

implications [PdMML19].

Implicit
[FLSZ13, FM15, GHBL18, GHMB+19, Lai13, TYH+15, VL19, ALA+19, BB12, BF10, CZD15, CBM16, CC14, CC15, CW16, DBMR18, FZR19, GZZ19, HCHW11, IBP+15, JCL+18, KKG+15, LLO+18, LHH+12b, MIW+12, MWI+19, NFD+19, NSLJ17, RC15, SS13b, SC15, SHL+11, TTI4, WG16b, XWF18, XYK12, XZ12, YLSLY19, YLKN17, ZSW+17b].

implicit-explicit [CW16].

implicitly [WWS10].

implosion [SKK+19].

import
[PG19].

importance [HLL13, KTB17, LLX14a, SK10, dHGCS11].

important [rJmYT11].

Imposition [MDPTTC17].

improve [FZ16, SCM13, WW12].

Improved
[AK13b, BKC+17, CZL+11, GV15, Jab13, KCT15, KO16, LRK13, NNWS15, RGH10, SSF+14, WMK11, WPD+15, ADdM16b, BW15, CKLM10, CDdM14, GCF+17, GST12, HKH+11, KDM11, KPPC13, LJD+19, MGO13, MS14, MBFB13, MFLY19, Nat09, Nat10, RLS16, RJLL16, SWL+15, SD10b, TD17, WZS+11, WW13, War16, XDM16, vDSM16].

Improvement [ADdM16a].

Improvements [PLF+17, SSS+11, DSS+19, Tan19].

Improving
[AKK+18, ADdM15, HHC16, KPVDH13, SGM11a, SGM11b, CMRVR16, KK17, Pit10].

impurity [BHT19, FLSZ13, GWF+11, HWG13, HWM+15, Hu17, SKF16, GW17, YWOD19]. IMT [MN10].
in-core [AZM14].
in-situ [KY14].

InAs [BMNS14]. incidence [BFM+19, MPSV15, VDB14].

Including
[AB10, EFC+10, DXY+19, PS12, WT12, XGH+19, ZMCT12, dTov18].

Inclusion [RU12, AMRdA17, TKJ19, UIY1].

inclusions [Bot13].

Inclusive
[DL18, GLS+13].
incomplete [LHJ10].

incompressible [BLAS19, BCM+16, CC16, DBMR18, EW14a, GZW17, KGFS18, Ki10, Koh15, Kra18b, LOK+18, LH18, LWJ18, NHSY15, RH17, TK19, YTYA17, ZBN+19, CRLS18, GRLS18]. incorporated [AM14b].

Incorporating
[KZ11, NLB+19, LYZ13, TKP15, WN10].

incorporation [CL11].

independent
[EGT+18, Ein16a, H013, Les16, LLX14a, SMC+17, XQ19, ZKS13, HSD17].

index [ICPD16, SAA+10].

India [BPM14].

India-based [BPM14].

indices [KTA12, SK10].

Indirect [BBB+11, Ham11].

individual
[HFOPF15].

individual-based [HFOPF15].

induced
[Gao13a, HYM11, LS17a, San11, SJY18, SJY20, Van15, WIL11b, ZLM12].

induction [VMGP+19, YTYA17]. inelastic [ASEA14, TVGB15, WFDK19].

inertia [DBP19].

Inertial
[JFHA19, HJL+14, LHJ+15, MJKB18, SKK+19, SS11b, RTv16].
inexact
[Dan10a, Dan10b, Dan14, Dan16, Dan17, Dan19, Hei12, ARYT17]. intensity
[Dan11, MSPD12, SCNJ18]. intensity-energy [MSPD12]. inter
[HB13, KK17, PZL+19]. inter-cycle [PZL+19]. inter-particle [KK17].
inter-polyelectrolyte [HB13]. Interacting [ATW+19, Cas12, APC+14,
CvW12a, CvW12b, Fil14, HL19b, LJSW11, LSR+17, LKT+16, MBFD12,
PFA+15, RS12, SSF+17, TD17, TKZ18, UKKB19]. Interaction
[BF16, BM13, BL14, BSC+13, CSJ+17, CL11, CUL+17, DCU+19, Gai17,
GC12, Gar19, GBD10, GC10, GC13, GC16, GC18, GCK19, HMR+19,
HRC11, IKS19, ICPD16, KPST15, LB13, MPS13, NS11b, ReViH12, Re12,
Sar17a, Sar17b, SS14, SAY+18, TJH17, Yan11, ZZ15]. Interactions
[BK18, BBL+13, BCH11, CCGC13, CB16b, Cro16, ERP+12, Fil13, FZY17,
FN17, Gao13a, GM16, GB+19, HCSW10, KMO19, KDFS18, KMD12, KM17,
Kra17, Kra18a, LSDD14, LH18, dIRJ14, Ots11, PH13, Tan19, TMA+15,
TRN16, TT11, YLQ+17, ZE11, ZE16, ZHPS10]. Interfacial
[KY14, Gio14b, MMC10, TL17, KST+14b]. interatomic [GD14, LYJH19].
interchangeable [ZVvE+13]. interdiffusion [CHDCJA17]. interest
[OK10]. interesting [MN10]. Interface [LZ17, ABB+14, Ano100, BPML12,
BB13b, CMM14, CSPAD10, CF16, CCHL11, DNP+12, DPW16, EW14b,
FLS13, GWM13, GLR17, HHP+16, KDP+14, MZ14, Nov17, PTA18, TM14,
Uty14, WMK11, XZ+16, XD13, XD15, xYCG+18, ZMvE+13]. interfaced
[BHJ+19]. interfaces [KRW13, KMJS16, NPM16, PR10, RH11, ZFBR11].
Interfacing [HLS+17, SPTPR19]. Interfacing [MHA+12]. interference
[FNPMB10]. interior [HLW16]. interrelated [CMdB11]. intermediate
[CYOS19, vMB14]. intermediate-representation [CYOS19]. intermetallic
[DMC+15]. intermolecular [KHKR14]. internal [BHH+10, BBH+15].
interoperability [GVPJ18]. interoperating [CCdC+11]. interparticle
[QLN14]. interpolated [FZY13]. interpolating [MCV18]. Interpolation
[HK+12, KMO19, Cha19, DGL10, GGG16, Ji15b, PCGM14, RWKS15,
Sok13, UNK12, XLL15]. interpretation [HLL13]. Interpreter [US18].
inversion [PC11]. interval [Zlo14]. intramolecular [VB19].
intraneuronic [TB14]. intrinsic [Dev12, DMC+15]. intrinsically [CRNK12].
Introducing
[BHS15, CXH+15, HH+10, LM16, MDGC+12, MCDAdF14, dHGCSS11].
Introduction [IBP+15, Bre10, SAC+15, TKR13]. intrusive [HMM+15].
invariant [MDHD18, QwWL+15, SMGK19, XYZX19]. invariants
[AdM14, DdMN16, FWZ+12, Ver16]. inverse
[Boy15, CL15b, KL11, MW12, MK10, MD10b, WHB16]. inversely [KB15a].
inversion [CL15a, GWF+16, GCF+17, GST15]. invert [FZ16, RLM13].
inverter [CL16]. investigate [ABH+18, KFF+16, DDP14]. investigated
[CSL+13]. Investigating [ARAB+17, BG14a, TKJ19]. Investigation
[AM14b, CLY11, KK13, MDPTK15, MRVF13, vdS13, EEGW12, MSH11,
NS11b]. inviscid [LSK+13, TFBW14]. involving
[CIP13, GC13, Sar17a, Sar17b]. ion [BT17b, BB13b, BKN+17, CCL18, Gai17,

Bis15, BH11, BC19, CB15a, CB17, CB18, Cas12, CF17, CO11, Deu16,
DO14b, DML+16, ECD+10, GS15, GHvdL11, GZL14, GMC18, GJLB12,
GHdF10, GBS+16a, GAO13b, HLS12, HC16, HLW16, JWCW17, JLIW13,
JOK13, LKM+16, LRW+15, LCQF18, LSYZ12, LR13, LR16, LOV10,
MBS+10, MAM14, MSR+17, MRL19, MCNRC16, NLB+19, PB16, Raw15,
RLM13, SI11, SZC+13, Sha13a, SMUT19, SPSP18, SPP19, Tau10, THDS16,
TIM+16, VBG+10, Var16, WDL11, WLZN17, BSW12. **Large-eddy**
[TIMM13, MRL19]. **Large-scale** [BMC+11a, DdJC+19, HKK11, JEFP14,
KH+18, PLD+13, SXW+18, SLZ16, BC19, CB15a, CB17, CB18, Deu16,
DO14b, DML+16, GS15, GHvdL11, GHdF10, GBS+16a, GAO13b, HLS12,
JOK13, LCQF18, LR13, LR16, MBS+10, MCNRC16, NLB+19, RLM13,
SMUT19, SPSP18, Tau10, THDS16, WDL11, WLZN17]. **Larmor** [XGH+19].
**laser** [BT17a, BEKP19, EZBA16, FZY17, GC12, GH15, HJL+14,
IB11, IKS19, JTT11, LJW11, LV19, LHJ+15, MiH12, MFS+10a, ON14, RetVH12,
SZM+14, BC19, CB15a, CB17, CB18, Deu16, DO14b, DML+16, GS15,
GHvdL11, GHdF10, GBS+16a, GAO13b, HLS12, JOK13, LCQF18, LR13,
LR16, MBS+10, MCNRC16, NLB+19, RLM13, SMUT19, SPSP18, Tau10,
THDS16, WDL11, WLZN17]. **laser-atom** [FZY17, TT11]. **laser-driven**
[HJL+14]. **laser-induced** [SJY18, SJY20, ZLM12]. **laser-plasma**
[RetVH12, TL19]. **lasers** [FYK18]. **latency** [GCC+18]. **later**
[DJW+19]. **laterally** [EBCBG17]. **Lattice** [BCJ+11, CYN19, CDS+13b,
CKCS13, LS13, SCRS17, TD17, dHGCS11, vds10, AGH+16, BWMM19, BBC+11,
BBB+17a, BHNS17, BB13a, BW12a, BDP16, BO12, CB13a, CAN11, CS16,
CZ19, CBB+10, CRA10, CND11, DCF+19, DE13, EPS15, FD13, Fri14a,
FKH15, GM18, HLS+17, HPOP15, HMR14, HCH16, HLTW19, HbotRC15,
IUM13, JLA+14, JK14, JEFP14, KP12a, KYM+17, KOG17, KK14b, KAvdL11,
KLO+19, KdMvO14, Law19, LKL11, Lee18, LS14, LQZ+13, LCL+11,
MHHL11, MDW16, MOD13, MR14, MRZ10, Maz13, MGS13, NIK+12a,
Ots11, RV10, Sai10, STK10, STA18, SD15, Sch14a, SV13, SLZ16, Sin12b,
SH16, TKS10, TS19, UA17, WLG+13, Wan16, WLU11, XLCW14, ZKG+18,
BLPP13, BCS10, GSTL+13, MLW+10, SSF+17, vds13, vds16]. **lattice-Boltzmann**
[CRA10, FKH15, MOD13, Maz13, TS19, SSF+17]. **lattice-Boltzmann/finite**
[CRA10]. **lattice-switch** [UA17]. **lattices** [BG11, CCW10, FLP10,
HML11, LCCC11, MKV11, SÓØN11]. ** launched** [sLqSqL+13]. **Laura**
[BGH+18]. **Laurent** [Per14]. **Lauricella** [BK16b]. **law** [JAS17, SB11,
UW12, WCT11]. **laws** [AAD14, DJ11, MWCY14, SW12b]. **Lax**
[MWCY14]. **Layer** [LV15, GGI+13, GLW14, JHL+15, Ras09, Ras17, SVV19,
WTH15]. **layered** [Bot12, CZF18, CL15b, DV11, FL12, MPSV15, PP13,
SVGS18, VCD16]. **LayerOptics** [VCD16]. **layers** [CBB14]. **LB3D**
[SSF+17]. **LDA** [PGD17, SW13a]. **LDA-1** [PGD17]. **LDA-1/2** [PGD17].
**leading** [GLPQ11]. **leagues** [dSVLP13]. **leap** [HP14]. **leap-frog**
[HP14]. **leaping** [AZM14]. **learning** [BG19a, BSW12, CSp+19, HJE+19,
KP16, Law19, WZHE18, YZZ+17]. **Least** [Ber16a, Ber16b, LSCZ11,
Liu13, AG12a, DSPJ10, Gor19, Kra11, LWW10, Wan10b]. **least-square**
[SPSJ10]. **least-squares** [AG12a, Kra11].
Lugovskoy [Maç19]. luminescence [PVH+17, Str15]. Lyapunov [MH18].


[BK11b, DBK+14, JWC18, ZLL18, ABB+16, ACM19, ART17, APV10, AC13, BG19b, Bot12, CNMC10a, CLJ12, CPWZ18, CK12, DN18, Des16, GZL14, GJ18a, HCRD14, HD17, IH11, JZJ18, KK16b, KH12, Lee18, Lev19, LJB+16, MIH12, MKG13, Mil16, MSRL10, NBN+14, NPM16, PO14, QJF16, Ram12, RHG10, Sai13, Sar17a, Sar17b, SDS15, Sha13b, Sha16, SD10a, SAS11, SDL+16, TK14b, UFKB19, USOA13, VvAV+11b, VvAV+11a, WPAV14, WWR+16, BD12, BR13]. matrix-element [Sha16].

matrix-exponential [Ram12].

matrix-free [KH12].

Matter [NSH+19, AMR19, BBP+11, BBPS14, BBPS15, BHN+16, CCM12, FTL18, GT19, HBL+13, HTY17, HCM19, IKS19, J(ab)17, LRC+11, MKB+11, ONS+15, SBH+14, WJCZ18]. maximal [Maz13]. maximally [KA+10, MYP+14, NGM+10, PVK+14a, PVK+14b, PMVG16, SV13, SPMM11].

maximally-localised [MYP+14, SPMM11].

maximally-localized [PVK+14a, PVK+14b]. maximum [LLG17].

Maxis [LJ+18]. Maxwell [BSK+18, BB13b, CSJ+17, CKK+13, CEF16, Dem13, FE11, HLLH16, KV19, KO14a, LV15, LLP15, LXY+17, SCLW16, VV16, VV18, YXT+15].

Maţdzia [MK+19]. MBE [AH13]. MBPT [KPST15].


MCgrid [BHS15, DHS14]. MCMC [BG13b, BLG14, Bon15, Bon16, VPMV+17]. MCNP [Car10a, Car10b]. MCNP5 [SMCB+15].


MEAM [DFM+15, Duf16]. MEAMfit [DFM+15, Duf16]. Mean [LS15b, BG11, DPB16, DBP19, EPB+16, GTK+19a, NPVR14, QJF16, UW12, WHC+19, dB14]. mean-field [BG11, DPB16, DBP19, GTK+19a, NPVR14, QJF16, dB14]. mean-square [UW12]. means [ACMM10, DAW+19, dASJC+19]. measure [ABCM14, LLLX14a]. measured [Kou11, Sco13]. measurement [AK13b, BJM15, CDSG11, LLQX19, PR13, RBG+19]. measurements [EBDM17, ERPDFS15, FBHB17, RF10, RBG+19, SW12b, WLM14].

measures [HLL13, RLL12]. measuring [ICPD16]. Mechanical [Voy13, AMM11, AYDY11, DGMZ15, LV13, RC11, SZ15, Sin11, Sin12a].

Mechanics [LSJ13, JZJ18, KV10a, OML11, ORCR17, PGO17, RK11, RU12, STT11, SU18, ZF15]. Mechanism [GAGW16, BUJ15, BNAB11, CHDF10, CGV13, ÇÖSÜ11, JJHG14, YZZ+17].

mechanisms [CFFR15, GAGW16]. Mechanistic [ORS+14]. media [BJ11, CNS+18, EZBA16, FKS+19, HZW+19, HSF+15, JA17, MPM14, MAIVAH14, OP12, RndB19, SVGS18, SGNL17, Ser10, TMD11, Ziö14, vMB14].

memory-mapped [LL15]. **MEMPSODE** [VPP+12, VHP+15]. **Mercedes** [HDM+12, SBPN15]. **merge** [PMMF15]. **merging** [LTP16, VGM+15, XLI13]. **MESA** [GWM13]. **MESA** Face [GWM13]. **Mesh** [HS14a, ACMM19, AWK+16, BCH11, BKPT12, EGT+18, FXZ+14, GX15, HCC14, ILZ+19, JG16, JFC12, JCL+18, KC14, KYKN15a, KYKN15b, LJWK11, LH18, LWRQ16, McM17, PZZL19, RHBH15a, RHBH15b, UBRT10, VM11, ZD15, CZF18]. **mesh-free** [JCL+18, McM17]. meshes [ASGLK10, AK15, FXZ+14, LA13, OCM+19, SP18b, YWX11]. meshing [ZPH+15]. meshless [DG10b, MM12, QLN14, SW14c, SD10b, XLL15]. mesh-free [JCL+18, McM17]. meshing [ZPH+15]. meshless [DG10b, MM12, QLN14, SW14c, SD10b, XLL15]. meson [BBC+11, CWW15, YWW13]. mesoscale [HPN18, WSH+14]. Mesoscopic [SS11c, BLV+19, WJHW14]. message [TSTT13]. message-passing [TSTT13]. messages [BABC19]. meta **[GSZ13]**. meta-GGA [GSZ13]. Metadata [RSSH+10]. Metadyn [HS16]. metadynamics [BPML12, HS16]. **METAGUI** [BPML12, GLR17]. metaheristic [CNMC10b]. metaheristics [dASJC+19]. meta **[FSJ+16, HBB+17]**. metallic **[HKF+12, HLW16, LLHC11, ZHCR18, ZLLP17]**. metals **[BT17a, KOK17, PSP16]**. metamagnetic **[dSFdFF13]**. metamaterial **[LL19]**. metamaterials **[RHW+12]**. Metamodelling [ZKS13]. metaphor **[BPML12, GLR17]**. metastable **[FSJ+16, HBB+17]**. Metatomic **[FSJ+16, HBB+17]**. Method [BUJ15, EW16, GHBL18, Les16, RNdB19, TG+16, ZLL18, AM14a, AM14b, ARY17, AS11b, ADdM16b, ASS13, ABD17, AG12a, ACdM19, AAJA14, BOPL17, BBL+13, BM13, BF16, BBB+17a, BK11a, BH14b, BH16, BW12b, BR14, BHT19, BT17b, BL18b, Bis15, BH11, BMW14, BCM+16, BMNS14, BPM16, BIT12, BHND16, BENK+17, CZ18a, CL15a, CB13b, CKSM+19, CAN11, CSPAD10, CZS10, CL10, CL12, CW13, CTL15, CW16, CS17, CSL+13, CKK+13, CB15d, CvW12a, CvW12b, Cor14, Cou13a, Cou13b, CNS+14, DZ15, DEMM19, DT10, DG10b, DT11a, DM17, Den10, DK5G16, DCM+19, DA16, DMC10, DCG13, DLF16, DF+15, Duf16, DOI14a, DOI14b, EBCB+14, ELS14, EKK14, EFK+19, FGM11, FS17, Fen12b, FK12, FNPB10, FBN+13, FPY+17, Fu19a, FJ19, FKS+19, FN17, GC12, GL14, GML15, GBP13, GA15, GA10, GZZ19, GGG+19]. method [GCH+18, GYW+10, GB17, GMHZ19, HE13, HV15, Ham11, HCL16, HLLH16, HTPF19, HSD17, HKvH16, HDZ14, HJGL18, HJGL19, HHC+10, HW12, HLW16, HM18, HN11, Ixa10, Ixa12, Jal10, Jan10, JK14, JK19, JFHA19, JW17, JLM18, rJmvY11, JOR+12, JGAL+13, JLW13, JCL+18, JPM12, JK13, JU17, KMS14, KK13, KU10, Kap12a, Kap12b, KCN18, KKG+15, KGFS18, Ki10, KL17, KO14a, KL11, KN13, Koh15, KDM11, KA17, KV19, KS12, KPST15, Kra10, KZ14, KH19, KMS16, KR14, KSW12, KOK17, KSY17, LOL+18, LLHC11, LM19, LLQX19, LX12, LM16, LLG17, LHJZ10, LSCZ11, LCC11, LHC+13, LST15, LMM17, LCQF18, LJWK11, LHI+12b, Lin13, LSK+13, LTP+17, Liu11, Liu13, LLZ+17, LOK+18, LJ+19, LLX14a,
MCWJ15, MD11a, MDHD18, MiH12, MIW+12, MRL18, MST+18, MSPD12, MRZ10, MC12, MH18, MBFB13, MK10, MNPF17, MMY+19, MM10].

**method**

[MM12, MFG+13, MSR+17, MBGV15, MBFD12, NDSH18, NPM16, NHL516, NZQ14, NCB18, NAQ16, Nis11, NMS14, OYK+14, OP+11, OPSR13, OPR14, ORI+10, OT11, PHA18, PSBT12, PAS11, PS14, PDRG10, PR13, PBMAD12, PEM19, PGD17, Pit12, PS11, PSP16, PB16, QMY+11, QA13a, QWZ18, QDZ+13, Qia10, QwWL+15, QL14, Ram10, RVA14, RCFT16, Ras09, Ras17, Raw15, Raw16, RVDS16, RLS16, RVDS18, RMS+12, RH17, RTA10, Sal16, San15, SW13a, Sch14a, SEW12, SEW14, SW14b, SF+17, SNB11, SCS12, SDS15, SD14, Ser10, SW14c, SMUT19, SD10b, SA15b, Sie16, SM10NF14, SHL+11, SBvD13, SS10b, SCG11, SDL+16, SSK13, SL14, SPSP18, SPP19, Sza13b, Sza16, TSM16, TD14, TDM17, TT14, TFtw14, TC11b, TKP15, TY10, Tia11, TT11, TW15].

**method**

[TKZ18, TDL+14, UO15b, UO15a, UFKB19, VdLF14, VK14, Wan10a, WX11, WLZ12, WZ13, WM13, WX14, WLGY18, WN10, Wil19, WP10b, XHLUF+18, XWF18, XZ12, XLL15, XLX+15, XD16, XGH+19, Yam16, YLO13, YBNY13, YS17, YTYA17, YQM12, YQM14, ZAH10, ZFH14, ZHPS10, ZOZ13, ZSW+17b, WZW17, ZKG+18, ZXZ+19, ZX10, ZS13, ZC12, ZST11, dASJC+19, vsSM16, CC10b, CC12, EW14b, EEEGW12, SVGS18].

**Method-** [Les16].

**Methods**

[EVBI4, EBCBG17, PVK+17, ARAB+17, ACCB13, ABB13, ABCM14, AH13, ABH+19, ADMD15, BCI11, BBWM19, BB15, BH17, Bla15, BBF+10, BB10, CFCM10, CDM16, CH19, CYSL12, CS10, Coll14, CHZ18, DIPI11, DMP18, DN13, DF11a, DLW+18, FLW10, FM10, FHTO17, FG13, FGR14, Fri14a, GBN17, GSKM14, GSKM15, GTK+19b, HV+19, JLA+14, Jiw15b, KFS17, KKL+18, LMC15, LD10a, LV10, LWWY11, LLP15, LW14b, LGHF18, LY16, LAC+17, LL12, MCP+11, MCGR11, MKS10, MM11, DPHB17, PMM15, PPF15, RL10, HH12, SZ15, SV19, SE15, SW12a, SW13b, SO19, SC16b, SBB+12, SS18, SAN18, SPP19, TBZ12, TE18, TVT+16, TXZ15, WC10, WLX13, WWC+16, WHL+12, WYH19, Wu10, WW10, WT15, XJS16, XHML12, YZ16, YYFY09, YZZ11, YWX11, YJK11, ZW15, ZTG13, ZTG14].

**metric** [WN10].

**Metropolis** [AIG16, GM14, MP11, PM14, ZDD13].

**MeV** [Pos18].

**MFIE** [ZD2Y10].

**Mg** [HH11a].

**Mg-like** [HH11a].

**MH** [HFSK12].

**MHD** [Ras17, BT17b, FDZ17, FZ+14a, JFC12, LC15, ML17, PHT+19, PE15, Ras09, VKNP14, WRBL19, ZOZ13, ZNT15].

**MIC** [NBW16, RB18, BSB14].

**micro** [Bal19, BD10, HLS+17].

**micro-currents** [HS+17].

**micro-manipulation** [BD10].

**micro-resonators** [Bal19].

**Microcanonical** [AMR15, FD13].

**mccracy** [VBMS17].

**microengineering** [MFG+13].

**microfluidic** [JHH+19].

**micrographs** [Nov17].

**microgrid** [CLH+17].

**Micromagnetic** [CF16, FCC15, EKF+19, RJW+19].

**micromagnetics** [TIM+16].

**micromegas4.1** [BBPS15].

**micromegas5.0** [BBG+18].
micrOMEGAs_2.4 [BBB+11], micrOMEGAs_3 [BBPS14].
micrOMEGAs_4.3 [BBB+18], micromotors [AD11]. micron [BHNS17].
micron- [BHNS17]. microquasar [Lan13]. microreology [BDGM+17, OOGP19]. microscope [TCK+15]. Microscopic [VCD16, AMM11, BBP+17, Gen10, RU12, VSO+13]. Microscopy [MAC12, BDGM+17, CRB+17, DGPOR18, MHV17, SSM+17, ZSW+17a].
model [MEG12, MNC15, MSM+11, MFH+13, NCHN15, NFI17, dRL11, dRAPL11, Ots11, Pål12, PBE14, RTÅT15, REBS16, SZY+12, SZY+13, SGM11a, SGM11b, STA18, SAA+10, SFP11, SH18, SJ17, SMJ17, SBPN15, SK12, STY15, STY18, SA15a, SLK19, SYD17, SMUT19, SO19, SLR+11, Sin12b, SH12b, SVG10, SS10a, SQA+15, SCB17b, Sta10, Sta14, SW11, SV12, SSBS15, Sza13a, TL19, TU14, TIMM13, TW11, US16, VS19a, VLM11, WR16, WDL11, WSTP15, WWVB11, WCT11, XZF12, XLCW14, XLL15, XYX19, Yam16, YK10, YFAT17, ZZ15, ZXL16, ZZG+16, ZZD+16, ZZG+19, ZY19a, ZY19b, ZML12, ZYL+15, ZCG17, ZKS+18, ZFR18, ZWC+19, dSdO12, dSFdFF13, dSLF13, dSVLP13, dSF18, vMB14, ABC+18, AB10, BCPS11, BCP13, DET12, DG16, HLM13, KPV16, MW19]. Model-Driven [Dan10a, Dan10b]. Modeling [CLW11, wH15, TJH17, AD11, BOPL17, Bar11b, BMNS14, BMZ+18, CSJ+17, CL11, CFFR15, Dan12, EZL+19, EDPZ19, EKK+14, FZY17, Gai17, GGI+13, HV15, Hak16, Hak19, HDF+19, HCHW11, IP14, Jab19, JGC+11, KEH12, KPA13, KM10, KRB15, KMJS16, KGNS10, Lan13, LV19, LZZL10, LHH+12b, LTHL+12, MPS13, MN18, NGCI+12, OBPL19, OP12, PBF+16, PE17, Ram10, Ram12, RAV11, RTA10, SGNL17, SL11, SN16, SHL+11, Sol11, SCG11, Sva12, TPK12, Uty14, VBMS17, VCD16, XHL17, YOM+19, ZE11, ZE16]. modelling [Hon18]. modelled [MRL19]. Modelling [AGB+15, CC16, HdM16, IBKK11, ANO10n, AMR+18, CdLOL19, DDB+17, HKF+12, Kra18b, MDPTK15, MRSD15, MSML10, OBH10, ORS+14, Org15, ORG15, RLMGM+11, TN11, Van15]. Models [Rei11, Rei12, AS11a, AC17, AABC+13, AG12a, AH13, AhPSV15, ABH+18, AC15, AC16, AC18, BW16, BBC+13a, BR13, BHT19, BMK11, CECGS16, CZ18b, Che17, DCM+12, DNP513, ELDS14, FW11, Fil13, FD13, Fuh15, HLL13, HvWT17, HCH16, HVR10, ID18, KÖG17, KO14b, KO16, KST+14b, KTA12, LLMW17, MLGVE14, MST+18, Mur14, NEW+18, NIS14, NP19, NAQ16, PdML19, PS12, QA13b, RK11, RDN+17, SLZ16, SH16, SOPS12, Sus17b, TAFD19, TSTT13, TVZ+15, WG12, Wan16, Wei11b, XLX+15, YZ19, dRAPL11, Me19]. Modern [HdM16, BS14a, CDSG11, Ein16b, HBL+13, RK11]. modes [AM19, ALSW14, Ball9, CS17, HSK+12]. modifications [RL10]. Modified [LYL+17, NIK+12a, ZLL18, BKN+17, DFM+15, Du16, FZY13, GSZ13, Jiw15b, KMS14, LM19, LCQF18, MS15, Ras09, Ras17, SMJ17, SBvD13, XHLUF+18, ZY19a]. Modular [CFW17, Gui19, Sin11, Sin12a, DLP10, FWS+17, KP16, KSH14, Kro16, TCK+15, Zag14]. modulated [TTG11]. modulation [Kap16, OCL+13]. module [DF11b, DGST17, GST12, LRK13, SK12]. modules [AAB+10a]. moduli [Bo16]. MOLDY [ADD+11]. Molecular [AS16, DLP10, Fil14, FFHI11, GM11, HLZ+13, LS17a, MTS11, MKB+11, Ngu17, NLB+19, SBPN15, SYE+18, TD17, ZS13, Zhe15, ADD+11, Bar11a, Bar12a, BBH11b, BBF+19, BPLM12, BKS15, Bin13, BG13a, BG14a, BGHN19, BWPT11, BKPT12, BY13, BCG+15, BBV+16, BMDP19, CTT17,
XGH+19, YWOD19, ZBG+16, ZLM12, ZTG13, dSF18, dHGCS11.
Monte-Carlo [DPK+15, LS15a, NBCL18, PEMS19, SM19, UKKB19].
MonteCUBES [BFM10]. MonteGrappa [TVZ+15]. monteswitch [UA17].
MoRiBS [ZBG+16]. MoRiBS-PIMC [ZBG+16]. morping [ZF15].
Morphological [MS11]. morphologies [Bar11b]. morphology [PR10].
MOSFET [ZBG+16].
MonteCUBES [BFM10]. MonteGrappa [TVZ+15]. monteswitch [UA17].
MoRiBS [ZBG+16]. MoRiBS-PIMC [ZBG+16]. morping [ZF15].
Morphological [MS11]. morphologies [Bar11b]. morphology [PR10].
MOSFET [SO19]. Moshinsky [XMLC16]. most [BS14a]. Mosyagin [Ma´z19].
motile [HPKF15].
Motion [KB15a, BMG+15, HH11a, MF17, SBPD19]. Motion4D [DPK+15, LS15a, NBCL18, PEMS19, SM19, UKKB19]
Monte-CUBES [BFM10]. MonteGrappa [TVZ+15]. monteswitch [UA17].
MoRiBS [ZBG+16]. MoRiBS-PIMC [ZBG+16]. morping [ZF15].
Morphological [MS11]. morphologies [Bar11b]. morphology [PR10].
MOSFET [SO19]. Moshinsky [XMLC16]. most [BS14a]. Mosyagin [Ma´z19].
motile [HPKF15].
Motion [KB15a, BMG+15, HH11a, MF17, SBPD19]. Motion4D [DPK+15, LS15a, NBCL18, PEMS19, SM19, UKKB19].
Monte-CUBES [BFM10]. MonteGrappa [TVZ+15]. monteswitch [UA17].
MoRiBS [ZBG+16]. MoRiBS-PIMC [ZBG+16]. morping [ZF15].
Morphological [MS11]. morphologies [Bar11b]. morphology [PR10].
MOSFET [SO19]. Moshinsky [XMLC16]. most [BS14a]. Mosyagin [Ma´z19].
motile [HPKF15].
Motion [KB15a, BMG+15, HH11a, MF17, SBPD19]. Motion4D [DPK+15, LS15a, NBCL18, PEMS19, SM19, UKKB19].
Multi-dimensional
[MKR+12, ASS13, BT17a, Cap13, CC15, DO14a, NAQ16, TD14].
multi-directional [TKJ19]. multi-disciplinary [WSH+12]. Multi-Domain
[IBP+15]. Multi-electron [BMW14, SW14b]. multi-exponential [Ike18].
[SLR+11, sX14]. Multi-frequency [PP13, LY16, YZWR14]. MULTI-fs
[REtVH12].
multi-gluon [BBU11, BvH15]. Multi-GPU
[BFPP12, BVP10, OP12, TPC16, DCVB+13, JK14, JXTS16, LBP15, NHD16,
WAW14, FOB+15, WFG19]. Multi-GPU-based [KO13, Kom15b].
multi-GPUs [SV13]. multi-instance [NB17]. multi-Intel [BBS14].
multi-jet [BBUY13]. Multi-Kepler [BBS14]. multi-layered [CL15b].
multi-level [HZW+19, IBP+15]. multi-loop [BCH13, Mey18, dDYK+18].
multi-moment [MAA15]. multi-objective [AZM14]. multi-orbital
[DKG+14]. Multi-resolution [SCM+18].
multi-scale [UBRT10, BHJ+15, BHJ+18, Sch14a]. multi-socket
[TRM+12]. multi-structural [ZMPT13]. multi-symplectic
[CZS10, HDZ14, ZST11, CWJ19, LS12a, QSC14]. Multi-type
[MRSD15, BT17b, FHA17, ZAFAM16]. Multi-physics
[ZMvE+13, DRF+16]. multi-populations [FSJ+16]. multi-purpose
[DBP+18]. multi-reference [DKG+14]. Multi-resolution [SCM+18].
multi-scale [UBRT10, BHJ+15, BHJ+18, Sch14a]. multi-socket
[BVP10]. Multi-step [Ume19]. multi-strategies [FSJ+16].
multi-structural [ZMPT13]. Multi-symplectic
[CZS10, HDZ14, ZST11, CWJ19, LS12a, QSC14]. Multi-type
[MRSD15, BT17b, FHA17, ZAFAM16]. Multi-physics
[ZMvE+13, DRF+16]. multi-populations [FSJ+16]. multi-purpose
[DBP+18]. multi-reference [DKG+14]. Multi-resolution [SCM+18].
multi-scale [UBRT10, BHJ+15, BHJ+18, Sch14a]. multi-socket
[BVP10]. Multi-step [Ume19]. multi-strategies [FSJ+16].
multi-structural [ZMPT13]. Multi-symplectic
[CZS10, HDZ14, ZST11, CWJ19, LS12a, QSC14]. Multi-type
[MRSD15, BT17b, FHA17, ZAFAM16]. Multi-physics
[ZMvE+13, DRF+16]. multi-populations [FSJ+16]. multi-purpose
[DBP+18]. multi-reference [DKG+14]. Multi-resolution [SCM+18].
multi-scale [UBRT10, BHJ+15, BHJ+18, Sch14a]. multi-socket
[BVP10]. Multi-step [Ume19]. multi-strategies [FSJ+16].
multiplication [GJ18a, WWR\textsuperscript{+}16], multiplicities [Wei12]. multiplicity [Car16]. multiplier [AQJ10, TC11a]. multiply [BG13b, BG14a, BLG14, Bon15, Bon16, WLG\textsuperscript{+}13]. multiply-charged [BG13b, BLG14]. Multipole [CC10b, CC12, GCH\textsuperscript{+}18, Ham11, LCQF18, LCHM10, LCHM13, OYK\textsuperscript{+}14, TSIM16, YBK\textsuperscript{+}11, YBNY13, ZHPS10]. multipoles [EPP12]. multiprecision [Sai13]. multirate [SEGP15]. Multiresolution [LB10b, RHH12]. Multiscale [CC10b, CC12, GB11, GCH\textsuperscript{+}18, Ham11, LCQF18, LCHM10, LCHM13, OYK\textsuperscript{+}14, TSIM16, YBK\textsuperscript{+}11, YBNY13, ZHPS10]. multispin [FFT\textsuperscript{+}14]. multisymplectic [CWS14]. multithreaded [TV10]. multivariate [CSRV13, KPVvdH13, LR18a, LR18b, vH10]. MultivariateResidues [LR18a, LR18b]. multiwavelength [SSP16]. MuMax3 [RJW\textsuperscript{+}19]. muon [NBCL18]. muons [BCMS10]. MUPAGE [BCMS10]. Muse [Liu14]. mVMC [MMY\textsuperscript{+}19]. mVMC-Open-source [MMY\textsuperscript{+}19]. mxpfit [Ike18]. myFitter [Wie13]. N [CKFB12, CDTV10, GBD10]. N2HDECAY [EMW19]. N2HDM [EMW19]. Nabarro [PE17, ZLZ19]. NAMD [BW15, JHP\textsuperscript{+}14, JJ15, MBP10]. NAME [MFH\textsuperscript{+}13]. names [WCT11]. nano-devices [HEF\textsuperscript{+}11]. nano-friction [HST\textsuperscript{+}11]. NanoCap [RM14]. nanochannels [SS11c]. nanoclusters [FSJ\textsuperscript{+}16]. nanodevices [CLL16]. nanodiamond [AZS\textsuperscript{+}11]. nanofiber [LPC\textsuperscript{+}15]. nanographite [AZS\textsuperscript{+}11]. nanomaterials [Mar19]. nanometric [ZHCR18]. nanoparticles [Bar11b, YHCS11]. nanotubes [LCY\textsuperscript{+}11, SWL11]. Nanoporous [ZDD\textsuperscript{+}13]. nanoribbon [LCY\textsuperscript{+}11, SWL11]. nanoribbons [GZL14, Iln12]. nanoscale [Dan14, Dan16, Dan17, Dan19, LCH11]. Nanoscience [NSH\textsuperscript{+}19]. nanosystems [GS15]. nanotube [LCY\textsuperscript{+}11, TM19, Yan11]. nanotube-nanoribbon [LCY\textsuperscript{+}11]. nanotubes [Beu11, CSL\textsuperscript{+}13, HCC14, LHS14, RM14, ZRS12]. nanowire [DJ12]. nanowires [CM15, TG11, VB11]. NAO [KBSP19]. NAPL [PBF\textsuperscript{+}16]. NASAL [CPCDm18]. NASAL-Geom [CPCDm18]. Natural [BHT19, OP12]. NAVier [BKOZ16, BLAS19, EW14a, FDZ17, LWJV18, MV15, QSB19, Sal16, SK15, SP18b, ZPS\textsuperscript{+}18]. NBL [KHN19]. Nd [LQZ\textsuperscript{+}13]. NDL [HAV\textsuperscript{+}14]. NDL-v2.0 [HAV\textsuperscript{+}14]. ndom [SKB10]. Ndynematics [ADdM\textsuperscript{+}12b]. Near [BKMP16, AGVP10, CZF18, DT11b, EEGW12, Faw10, JU17, LPRPR17, MZE13, TGL\textsuperscript{+}12, Uty14, XD13, XHD15]. near-barrier [DT11b]. near-continuum [TGL\textsuperscript{+}12]. near-field [CZF18, LPRPR17]. near-rigid [Faw10]. Near-threshold [BKMP16]. near-wall [JU17, Uty14]. nearly [LYL\textsuperscript{+}17]. nearly-analytic [LYL\textsuperscript{+}17]. necessary [BSWC14]. neighbor
[ABRS12, HAN\textsuperscript{+}16, KHN19, LYJY10, ZZHG18]. Neighbour
[MRZ10, WRR18]. Nektar [CMC\textsuperscript{+}15]. neoclassical
[BSM13, HSK\textsuperscript{+}12, MS14, SISW10]. Nernst [Fuh15]. Nested
[BBV\textsuperscript{+}16, BH11, SEGP15]. Network [VKLM11, VLM11, DLW\textsuperscript{+}18, HH11b, LYJH19, ORCR17, YKK\textsuperscript{+}19, dSLF13, ZHL11]. networks
[BHVMH15, CHDF10, CB15c, CMdB11, CF17, CLF18, HLS12, HZC19, IBKK11, Kra10, MCNRC16, NMC15, PHA18, QHC\textsuperscript{+}10, SOYHD19]. Neumann
[RC16, Jiw15b, RC13, RTA10, SP16, SN16]. Neural
[ORCR17, ZHL11, dCD19, HZC19, LYJH19]. neural-network
[LYJH19]. Neumann
[BRL12, AGB\textsuperscript{+}15, BBH\textsuperscript{+}11a, Lit13, PE15, Tic14]. neutral
[Tic14]. Neutrino
[BFM10, AKH12, BPMM14, BNAB11, KHBS19]. neutrino-driving
[BNAB11]. neutrinos
[WW15]. NEutron
[Car16, BNV18, CXG\textsuperscript{+}19, ECSH16, KB15b, LS12b, RLS16, SEW12, SEW14, VPM12, WJCZ18, ZTG13, ZTG14]. neutron/gamma
[RLS16]. Neutron
[MSNI11]. Neutron
[MSNI11]. Neutron
[MSNI11]. Neutron
[MSNI11]. neutronics/thermal
[YLL\textsuperscript{+}19]. neutronics/thermal-hydraulics/fuel-performance
[YLL\textsuperscript{+}19]. neutrons
[MSNI11]. newly
[CCW15]. Newton
[BK12, CB15d, HCSW10, YJK11, vWB10]. Newton/Yukawa
[BK12]. Newtonian
[BHNS17, NCB18, RJLL16]. Next
[AAT\textsuperscript{+}14, AAT\textsuperscript{+}20, AC17, AMRdA17, GLPQ11, PLF\textsuperscript{+}17, DET12]. next-generation
[PLF\textsuperscript{+}17]. Next-to-Minimal
[AAT\textsuperscript{+}20, AAT\textsuperscript{+}14, AC17, AMRdA17, DET12]. next-to-next-to-leading
[GLPQ11]. Nexus
[Kro16]. NF
[YE14a]. NF-package
[YE14a]. NGluon
[BBU11]. ngrav
[Cro16]. Ni
[BTM\textsuperscript{+}17, CHW\textsuperscript{+}15, TG11]. nickel
[WB11]. Nicolson
[BB10, CWS14]. Ninja
[Per14]. NiTi
[NS11b]. nitride
[Yan11]. nitrogen
[CHC\textsuperscript{+}11, LJSW11]. Nix
[Rom15]. NLO
[BDC\textsuperscript{+}14, BCG\textsuperscript{+}13, BS13b, GHvSF14, Pit10]. NLS
[LlSZ14]. NLSEmagic
[Cap13]. NMSDECAY
[DET12]. NMSSM
[AM11, BGM\textsuperscript{+}14, SAE\textsuperscript{+}16]. NMSSMCALC
[BGM\textsuperscript{+}14]. NN
[LYJH19]. NNDrone
[BG19a]. NNLO
[HLM17, BHZ13]. nnlo-Higgs
[BHZ13]. nodal
[Koh15, Oti13]. nodal-based
[Oti13]. node
[CTL15, NZQL14, SC16b, ZBN\textsuperscript{+}19]. node-centered
[SC16b]. nodes
[Sch14b, YKK\textsuperscript{+}19]. noise
[BCS10, BDBV12, CC10a, Er14, HH11b, KS16b, MW12, VSG18]. noises
[iT11]. noisy
[QHC\textsuperscript{+}10]. noloco
[NPAD11]. NOMAD
[GHK19]. Non
[FW11, GTK\textsuperscript{+}19a, Gor19, Jal10, VDA\textsuperscript{+}19, WL11b, AAD13, ABF19, ABH\textsuperscript{+}18, AMJ18, BL19, BHNS17, BL14, BDP16, BW12b, Bla15, BCT17, BH13, BPS\textsuperscript{+}16, BMG\textsuperscript{+}15, CLW11, CjLOL19, DBJ11, DJ11, EW16, FR15, HWS16, HM17, HMM\textsuperscript{+}15, HL19c, JBMK15, JU17, KKS18, KS15, LMRC15, LA13, LS15b, LGC14, NCB18, OILK17, PHT\textsuperscript{+}19, PLF\textsuperscript{+}17, PBF\textsuperscript{+}16, PBD\textsuperscript{+}15, SK15, SCLW16, SCNJ18, SC15, SS11b, SLEF17, TDL\textsuperscript{+}14, UNK12, USOA13, Wit14, YQM12, YQM14, ZDWM17, ZXZ\textsuperscript{+}19, dSFdFF13, dSVLP13]. non-adiabatic
[HM17]. non-aligned
[HWS16]. non-autonomous
[Bla15, BCT17]. non-axisymmetric
[EW16]. non-bonded
[BL14].
non-equidistant [LS15b]. non-equilibrium [BPS+16, JBMK15, PLF+17, PBD+15, SC15, XZZ+19, dSFdFF13].
non-intrusive [HHM+15]. non-isothermal [PBF+16]. Non-linear [Gor19, VDB+19, JBKM15, PLF+17, PBD+15, SC15, XZZ+19, dSFdFF13].
Non-local [GTK+19a, AMJ18]. non-Markovian [dSVLP13]. non-minimal [KKSY18]. non-Newtonian [BHNS17, NCB18].
non-orthogonal [USOA13]. non-oscillatory [AAD13, DJ11, UNK12]. non-overlapping [JU17]. Non-perturbative [WLB11b].
non-transferred [CLW11]. non-uniform [BDP16, KS15, LA13, LFG14, Witt14, YQM12, YQM14]. nonadiabatic [GVPJ18, LWW10, vSGB+18].
non-central [GST15]. nonclassical [Shi16]. nonequilibrium [KL11, LD10a, LV19, LWL12, LST15, LLL12, Lin13, LLL13, SL10, MD11a, MHWH19, Mel19, MFM15, Moh14, ICD13, PDRG10, PHS12, QSC14, RM10, SWI1c, SK14, SB11, SS10b, TD14, TJBH17, WP10a, Wil19, XZ12, YCO15, ZAH10, ZWLL17, ZY19a, ZLL13, ZW15, ZST11, ZL14, dlHV10].
nonlinearity [SB11, VEB+18]. nonlinearly [CC14, CC15]. nonlocal [LAA+10, LLMW17, TRN16, YZ19, ZY19b]. nonresonant [HSH16].
nonuniform [ZNT15]. nonzero [BBF10]. norm [BDB16, LD10a, LV19, vSGB+18]. norm-conserving [GVPJ18, vSGB+18].
number [ASPW13, BS11, BS13a, BS14a, BCJW13, BCJW13, CBYG17, CBYG18, Dem11, FP14, GP13, GBS16b, Kan18, LS15a, LNP+17, Mis13, Sav15, SS13a, Sib17, SCM+18, TC11a]. numbering [BBC+13a]. numbers [BS13a, BCJW13, Nog17a, Nog17b, UO15b, YB13, ZO13, ZNT15].

Numeric [GBRB11, KCA+15, LRW+15]. Numerical [ABRS19, ASEA14, ACCB13, ALSW14, AD11, ACM12, AH13, ADdM+12b, BBUY13, BCH13, BJH+13, BMNS14, BS12, BvH15, CMJ+11, DG10b, DGS+19, DR12, FGLB12, Fis12, Fuk17, GG16, GLX+14, HKSW10, HK12, HML11, HW11, HB13, HL13, Ixa16, JLM18, JPK12, KFS17, KM10, Kri12, LDF15, LD10b, LSF14, ILSZ14, MT13, MIW+13, MFS+10a, MLC12, MMS17, Nog17a, Nog17b, UO15b, YB13, ZOZ13, ZNT15].


Object-oriented [BC19, CB15a, CB17, CB18, Asl14, BFD+11, CDMCN11, CFFR15, DM12, OKM12, SL16, WP10a, Zag14]. objective [AZM14].

[Hoh14a]. Octree [FGC+11, TE18, TK19]. Octree-based [FGC+11]. ODE [HKSW10]. ODEs [K10a, NO12]. off [HFOPF15, JCL10, JTP15, JHL+15, KdMvO14, MRS10, RV10, SMOB19, Zag14]. off-axis [JTP15]. off-lattice [HFOPF15, KdMvO14, MRS10, RV10]. offload [BCG+15]. offs [BNB+14]. ohmic [KGG+16, YLKN17]. oil [ZAFAM16]. OK2 [OP10]. OK3 [OP10]. old [TBB+14]. on-lattice [XLCW14]. on-the-fly [GGG16]. ONCV [SG15]. One [ADH+17, CHC+11, DLU18, EGPS10, ABB+14, AG14, Ano10o, BBU11, Ber16a, Ber16b, BDP16, BDV11, BHJ+15, CZD15, CEZ16, CJI11, CR12, CvW12a, CvW12b, CGH+11, DDH17, Dua10, Fen12b, Fil13, FEH11, HLS12, HEF12, HHC+10, JWC18, KKS18, KS12, LS19, Liu11, Liu13, LK+16, MCA17, MP11, MEM+11, OAKS11, Pat15, Pat17, Per14, QA13a, RtV16, RVA14, Rei12, RCH16, RGKR17, TD14, Ter17, WHG+19, vH11]. one-dimensional [CHC+11, AG14, BDP16, CZD15, CR12, CvW12a, CvW12b, Dua10, Fil13, HHC+10, KS12, MEM+11, QA13a, Rei12, RCH16]. One-Loop [ADH+17, DLU18, ABB+14, Ano10o, BBU11, CEZ16, CGH+11, DDH17, Fen12b, FEH11, HEF12, KKS18, Pat15, Pat17, Per14, vH11]. one-particle [LS19, Liu11, Liu13]. one-shot [HLS12]. one-valence [MCA17]. one-way [OAKS11, Ter17]. OneLoop [vH11]. onetep [BDPM15]. Onia [Sha13b, Sha16]. online [HDF+19, Mis13, PR14, TdAdSS11]. only [Sta14]. Open [BCP+16, CYOS19, CDR+15, DSK19, DBL16, JWC18, MMY+19, SH18, WGG16, WGG+19, AZ17a, AZ17b, AFZ17, AFZ18, ATCZ19, CMC+15, CLJ12, CFW17, CCHL11, Dan11, DGJ19, Dat13, DBP+18, FLA+16, Faw10, FJK+17, FLW17, HSF+15, HKvH16, HWM+15, Hua17, ILZ+19, JNN12, JNN13, JMG+17, KDM17, KPK+17, KSH14, KPO+18, LPC+15, LZ11a, LZ11b, LZ12, LS13, MZE13, MVS15, MGFRG12, NMS14, NGCI+12, ORS+14, PLCC12, Qia16, Qia17, STA18, SV14, SC16a, SPAW17, SAHP19, SDL+16, TL17, TACA15, TVT+16, VBG+10, VDA+19, VSI9a, VB19, WDFK19, WVF14, WPV14, WZS+18, XAPK14, ZCG17, Zag14]. open-shell [Faw10]. Open-source [BCP+16, CYOS19, CDR+15, DSK19, DBL16, JWC18, MMY+19, SH18, WGG16, WGG+19, AZ17a, AZ17b, AFZ17, AFZ18, ATCZ19, CMC+15, CLJ12, CFW17, CCHL11, Dan11, DGJ19, Dat13, DBP+18, FLA+16, Faw10, FJK+17, FLW17, HSF+15, HKvH16, HWM+15, Hua17, ILZ+19, JNN12, JNN13, JMG+17, KDM17, KPK+17, KSH14, KPO+18, LPC+15, LZ11a, LZ11b, LZ12, LS13, MZE13, MVS15, MGFRG12, NMS14, NGCI+12, ORS+14, PLCC12, Qia16, Qia17, STA18, SV14, SC16a, SPAW17, SAHP19, SDL+16, TL17, TACA15, TVT+16, VBG+10, VDA+19, VSI9a, VB19, WDFK19, WVF14, WPV14, WZS+18, XAPK14, ZCG17, Zag14]. open-source [MGR16]. operated [LM19]. Operating [SC14]. operational [dlHV12]. operations [CB18].
operator [ABB$^+$16, ABF19, BK11a, BW12b, BBF$^++$10, BF10, DGS$^+$19, 
Eks11, GTS14, JHL$^+$15, KAK12, MWI$^+$19, NNWS15, PB16, Ram10, Sch14a, 
STY15, STY18, Zit11]. operators [Bra15, LYL$^+$17, SD10a, Vit19]. Opinion 
[YH15, CHDF10, IBKK11]. OptaDOS [MNPY14]. OptHyLiC [BCTP18].

optic [FPMB10]. Optical [AWK$^+$16, Ost10, PGMU19, AM14b, APRG11, 
AKV18, BF16, Bal19, BD10, BG11, BGL$^+$14, BMG$^+$15, CM15, CCL15, 
CS17, CCW10, CSL$^+$13, DSS$^+$12, FE11, GGG16, HCRD14, HWCH11, 
HHT14, LCCCI11, LLMW17, MNPY14, NJS17, OCL$^+$13, PM14, SS$^+$17, 
VEB$^+$18, VCD16, WX11, WQ18, ZHCR18, ZYL$^+$19]. Optics 
[NSH$^+$19, Dem13, KAH18, SWS$^+$12]. Optimal 
[FBHB17, KKCC19, MLEM19, CNMC10b, DJ14, FSF11, FJ19, Hoh14a, 
Ike18, MFS$^+$10a, PSBT12, PGMU19, RC18, SH18, SJHS19, XLL15].

optimality [KL14]. optimisation [EGT$^+$18, HdM16, dCD19].

optimisations [HKZN19, HWCDM19]. Optimised 
[IZRT15, RWKS15, Wei12, BCTP18]. Optimising [Rei10]. Optimization 
[BS14b, DF14, DCGG13, FGR14, MCY$^+$16, SG15, ATA$^+$19, AcS13, 
AZM14, BS15a, BR11, BPS$^+$16, CI10b, CLH$^+$17, CJJ$^+$17, CXG$^+$19, DBJ11, 
FSJ$^+$16, DRI$^+$16, GWF$^+$16, GD14, Has11, HWL$^+$17, HJL$^+$14, HVMR10, 
HKVR10, JKG$^+$18, KPA13, KPR11, KHKR14, Kra11, KUV15, KL14, 
LM19, LHL16, LCR10, MR14, MBGV15, PCVZ11, QwWL$^+$15, RMS$^+$12, 
RLL12, SHW18, SWL$^+$15, SZM$^+$14, SKH$^+$10, TTT16, VvAV$^+$11a, VPP$^+$12, 
VHP$^+$15, Wie18, WLZ17, XLCW14, YZZ$^+$17, YLYL17, ZBMM11, ZPV16, 
Zio14, dASJC$^+$19, vRWS14, PE17]. Optimizations 
[iSYS12, WRFS15, BD11$^+$19]. optimize [TVZ$^+$15]. Optimized 
[Cha16, CF17, DRR16, HLLHI16, LJB$^+$16, MAIVAH14, Smi16, BD10, 
CNMC10a, FDWC12, KD17, KAS12, LWC14, LW16, LBP15, SEW12, 
SEW14, TVT$^+$16, vSGB$^+$18]. Optimizing 
[BPSS18, BCCG$^+$15, De 11, GBN17, KdMV014, RKVL14]. Optimum 
[WS11b]. ORBS [MBB$^+$19]. orbifolder [NRSVW12]. orbifolds 
[NRSVW12]. Orbit [BBDV12, CL14, CFF19, HSK$^+$12, Nis11, PCGM14, 
RE12, WX14, WLGY18, XGHI$^+$19, MPS13]. Orbit-based [BBDV12].

orbit-following [HSK$^+$12, XGH$^+$19]. orbital 
[BHT19, CM15, CXH$^+$15, Cor14, FGR14, HHS$^+$10, KT12, KST14a, KAS12, 
MSS$^+$16, PS14, PK18, QwWL$^+$15, SGW17, SGSG19, SMGK19].

orbital-based [BHT19]. orbital-free 
[CXH$^+$15, HHS$^+$10, KT12, KST14a, MSS$^+$16]. orbitals 
[BCC$^+$18, Ert15, KTB17, KCA$^+$15, KBSP19]. orbits 
[BRB12, BDT15, KRK16]. orchestration [CCdC$^+$11]. order 
[AAD13, AAD14, ABdA15, AGH$^+$16, AH13, AdDM12a, AdDM14, AcDM15, 
AdDM15, AcDM19, BBL$^+$13, BKV16, BL19, BK16a, BCT17, BVC13, 
BIT12, CFMR10, Cap13, CZH18b, CD15, Cha16, CD12, CR12, DBMR18, 
DJ11, DZ13, DdMN16, EGT$^+$18, FG13, Fu19b, GLPQ11, GGGH14, GJ14, 
GA10, GPS$^+$13, HSF$^+$19, HZ11, KVV19, KMS14, KO14a, KBB$^+$17, Koh15, 

XNK+16, YE14a, YE14b, ZZ15, Zit11, vH10, BH14a, FGJB19, Pat15, Pat17, Sht17. **Package-X** [Pat15, Pat17, Sht17]. **packages** [BKK13, BKM14, BK15, BK16b, Hol19, THJ+10]. **packet** [AV13, DHR14]. **packing** [CBAM12]. **Padé** [IH11, SB11, SAS11]. **page** [Gor19]. **pair** [CHA11, CM14b, DGST17, FCCTFR18, FPY+17, KHKR14, PH13, RK19, SLW19b]. **pair-instability** [CHA11]. **pair-potential** [FPY+17]. **Pairing** [WRB11, GLX+14]. **pairs** [HL19b, MWCY14]. **palladium** [SQL+10]. **Palmeras** [DLGP10]. **paper** [BLV+19]. **Para** [GX15, ZKG+18]. **Para-AMR** [GX15, ZKG+18]. **parabolic** [AAD13, BB10, GN14, HC16, HC17, NO14, OAKS11, PR13, RS12, TKZ18]. **Paradeisos** [JWM+18]. **paradigm** [CKhN11]. **Parallel** [APC+14, Bab14, BC11, CLH+17, CL15b, Cra14, EDPZ19, EKDGG15, FFT+14, FB19, GGI+13, GMF+17, GSMK17, GCH+18, HL19a, HvAS+13, HCSW10, JKS16, KPPC13, LBM+14, LKL11, LT15, Mau16, NCHN15, NFD+19, NZQL14, PIH11, QLE16, RRCSCJ10, RNdB19, RD10, SD15, SO19, TSK+17, TSST13, TMS19, US16, VHP+15, WC10, WYH19, YSLY19, YRR13, ZPH+15, ZHC16, ART17, AL17, BMC+11b, BS13a, BS14a, BPB+17, BHS18, BJCW13, Boe14, BCM+16, BVSG19, BHND16, BENK+17, CCL18, CHNS18, CPR12, CUL+17, CSK+19, CDR+15, DBDP12, DN18, DJW+19, DSS+12, DRUE12, ER19, Fan19, FZ16, FZY17, FKS+19, Gai17, GFP10, GWF+16, GS1b, GS17a, GD14, GB14, GZWJ18, GX15, GRLS18, HAV+14, HFOPF15, HMR+19, HZW+19, HPN17, HCHW11, ILZ+19, JHL15, JKL19, K ´OG17, KBB+17]. **parallel** [LAA+10, LSG+12, LHH+12b, LHH+12a, LS12b, LHZ11, LW14, LW16, MDW16, MIW+13, MM17, MCA17, MSI+10, MGB18, MGR16, NFA+16, NPAG11, Ngu17, NM14, NFD15, OCF10, ORS+14, PDC14, PGO17, QL10, Qia17, RJLL16, RK19, RFSF18, RBB15, SL16, SSF+17, Sch18, SDLS15, Shai13a, SOM+13, SC16b, SOJ14, Ste17, SMKG14, Str15, SP18, Sus17b, SSM+17, TTT16, VKP14, WMK11, WEH+19, WAHL13, WSH+12, WC15, WRvDL15, YHL11, YLQ+17, YL12, YBN13, Zag14, ZAFAM16, ZSW+17b, ZMJ13, ZBN+19]. **parallel-adaptive** [GX15]. **Parallelisation** [MFH+13, Roh16, SCC+12]. **Parallelised** [FKH15]. **parallelism** [BS14a, BKS15, MDGC+12, TGH+16]. **parallelizable** [Smi14]. **Parallelization** [HBE10, MiH12, ASPW13, BW12a, CWT+17, DKG+14, DO14a, GLAC13, Gnu19, JFC12, KEH12, KSY17, LKM+16, LW14a, ML17, OLG+16, PM+15, RGH10, SCB+17a, SS18, THDS16, TE18]. **Parallelizable** [SST11]. **parallelized** [GJB11, HHS+10, OKM12, TKL+12]. **Parallelizing** [TD11]. **Parameter** [DMP18, Mau16, dASJC+19, Ber16a, Ber16b, BHVM15, BMF10, Che17, GCVA14b, JWC13, LAS+17, LHL11, Mel19, MKR+12, MD10b, PM13, PIH11, Yam16]. **parameter-free** [PIH11]. **parameterization** [AANAJ12, KHKR14]. **parameterized** [KL14]. **parameters** [ÇOSU11, DBP19, HM12c, KKCC19, KP16, MDPTTC17, MPS13, OO15b, PG10, RKVL14, SZM+14, WDR16]. **Parametric** [Lin13, WXL13, BCMS10, GCVA14b, Zhe15]. **parametrization**
parareal [SCB+17a, SCB+19], paraxial [PBL+18], PAREMD [MBG18], parentage [Dev12, SMGK19], Pariser [KS12, SS10a], parity [AB10, AKH12, SHZ13], parity-dependent [SHZ13], Parker [DSP15, LKW11], PARPLE [Str15], parquet [LKPH19], Parr [KS12, SS10a], Parrinello [VCMS+13], Parsek2D [IBP+15], Parsek2D-MLMD [IBP+15], PArthENoPE [CdSM+18], partial [DH13, FBHB17, GCVA14b, HK15, Jiw15b, JK13, MJB+10, SGDS16], partially [MC17], ParticLE [KDP+14, BOPL17, BJM15, BKPT12, CBAM12, CDR+15, DS11a, FHTO17, GLHG12, GRLS18, HPKF15, HZW+16, JBKM15, JFHA19, KS16a, KKK+17, LBM+14, MDPTK15, NHSY15, QL10, RNdb19, US18, VGM+15, AM14a, ASPW13, AGMS15, ABCM14, AGB+15, ABRS12, BCH11, BPB+17, BBB+17a, BHN17, BDL+19, BS15b, BE14, BTL+17, BCDP18, BDGG19, BY17, CH19, CAT11, CPW17, CC14, CC15, CSJ+17, CL11, CSSB15, CFF19, DCM+12, DET12, DGPW11, DF14, DBP+18, Dev12, DCVB+13, DCG13, ENEO15, EKO16, E19, EKK14, EW14b, E-vs14, FLW17, FJ19, FN17, GWF+16, GKM10, GSKM17, GAHP15, GHMB+19, GD14, GZZ19, GH15, HBE10, HKJ+12, HAK+14, HCSW10, ILZ+19, JXTS16, KB15a, KKK+15, KPA+19, KHK+11, KvO11, KK17, KPPC13, LJE11, LS19, Liu11, Liu13, LOK+18, LQ18, LTP16, Mag18, MDPTTC17, MKL17].

Particle-based [HPKF15, JFHA19, WS+14], particle-beam-dynamics [KPA+19], particle-cell [PG17], particle-continuum [SYE+18].

Particle-field [QL10].

Particle-In-Cell [HZW+16, BOPL17, DS11a, AM14a, BPB+17, BDL+19, CH19, CC14, CC15, DBP+18, KKK+15, KH+11, LJE11, MKL17, MUK+12, MEM+11, MTO15, OBPL19, QL10, RKVL14, SSS+11, SKK17, Sok13, VMF16, WVC+16, WN10, WE12, WSH+14, WRR18, XQ19, XLL13, YZZ+17, YLQ+17, YK19, YLKN17, ZSW+17a, ZLF11, dASJC+19, CDBM16, CHZ18, DS14, FJ19, IBP+15, KC18, LKA+16, PE17, PMMF15, iSSM11, SVG10, SBE+16, VLL+17].

Particle-based [HPKF15, JFHA19, WS+14].

Particle-continuum [SYE+18].

Particle-In-Cell [HZW+16, BOPL17, DS11a, AM14a, BPB+17, BDL+19, CH19, CC14, CC15, DBP+18, KKK+15, KH+11, LJE11, MKL17, MUK+12, MEM+11, MTO15, OBPL19, QL10, RKVL14, SSS+11, SKK17, Sok13, VMF16, WVC+16, WN10, IBP+15, LKA+16, VEL+17, CDBM16, CHZ18, DS14, KC18, PMMF15, SVG10, SBE+16].

particle [MKU+12, MF17, MST+18, MH18, Men11, MEM+11, MBGK11, MKG13, MAM14, MTO15, MNC15, Müll14c, NFD+19, NP19, NFD15, OBPL19, OCM+19, PR14, PMMF15, PG17, PBS+17, QL14, RKVL14, RAV11, RK19, RH17, RFA10, SSS+11, Sch14a, SS14, SWL+15, Sie16, SN16, SM11, SBPD19, SSP16, SKK17, Sok13, SYE+18, SMCB+15, SMGK14, SBL+16, TK14a, Tau10, Tic14, TadSS11, UW12, VSG18, VBMP15, VB19, VMF16, WHG+19, WRS15, WZS+11, WXW13, WXW14, WWC+16, WLQ+17, WN10, WE12, WSH+14, WRR18, XQ19, XLL13, YZZ+17, YLQ+17, YK19, YLKN17, ZSW+17a, ZLF11, dASJC+19, CDBM16, CHZ18, DS14, FJ19, IBP+15, KC18, LKA+16, PE17, PMMF15, iSSM11, SVG10, SBE+16, VLL+17].

Particle-based [HPKF15, JFHA19, WS+14].

Particle-continuum [SYE+18].
partition [HCH16, LKL11, Lee18, RMC16, ZMCT12]. partitioned
[BY17, EPP12, FZ16, KZC+10, MKS10, WXL13]. partitioning [HJH17].
partly [KH12]. Parton
[CGO17, BCH17, CUL+17, SZY+12, SZY+13, War16, ZYL+15, vH18].
partition-interaction [CUL+17], parton-level [vH18], parts
[Fen12b, Kan14, SS13c, ZYL+19]. passages [JU17], passing
[TSTT13, XNK+16], past [TKL+12]. PASTA [KBLJ18]. Path
[NSXZ14, AGL11, Brä15, BHG19, CMM14, LA13, MTS+16, MNV13,
Min11, RGK17, WM14, ZGB+16]. path-integral [ZGB+16]. pathology
[LWES18]. pathology-free [LWES18]. paths [GA13]. pathways
[MLGVE14]. pattern [CGS18, FBG10, OG14, O015a]. patterns
[LSYZ12, MS12, WS11a]. Pauli [Bad11]. PAW
[Hol19, RCGT16, SHW18, THJ+10]. PBSA [PSMS14, PSMS15]. PCTDSE
[FZ17]. Pd [CHW+15, SWL+15]. PDB [DPK+15], PDB4DNA
[DPK+15]. PDE [BS15a, Fan19, RD10]. PDE-constrained [BS15a].
PDEBellIII [MWCY14]. PDEs
[CWJ19, GLHR19, KSW12, MCL+17, RHH12]. PDF [BCR14]. PDG
[BBC+13a]. PDDoublePop [TT16]. PDRF [sX14]. pe [FBP+14].
Peacemaker [KSL+11], peekon [HDZ14]. pedestrian [PC11]. Peierls
Penetrating [WGG16]. PENGEOM [ASPDL+16]. PenNuc [GTPS19].
Pentadiagonal [TT14, GN19]. pentoxide [LS11]. peptides [BBV+16].
Percolation [SW11, YHCS11, YH15]. perfect [JWM+18, DMH16].
Perfectly [LV15, SVV19, SKML11]. perform [PSMS14, PSMS15].
Performance [CMRVR+14, CCY18, FBN+13, GHB18, KKP11, KVV11,
LSYZ12, PZL+19, Sha13a, Sin12b, TRM+12, Yi11, AL17, Ara14a, Ara14b,
BBB+17a, BHSN17, BL18a, BCH17, BR13, BWPT11, BKPT12, BY13,
CD313a, CL15b, CRA10, E116a, FB19, GS15, Gai17, Gar19, GKB+12,
HLZ+13, JTW+17, JVR12, KPA+19, KMS19, LSR+17, M1119, MNO+17,
MV15, ML16, DPHB17, N134, NFS15, PG017, Rap11, RV10, SG14,
SHZ13, SSF+14, Tan19, TGH+16, VMPG+19, WGVPL17, WEH+19,
XLCW14, YLL+19, dJBIM16]. performant [KSS18]. perfusion
[BBB17b, IBB18]. peridynamic [CB15b, HSS14a]. periodic
[BRB12, BDT15, CY17, CZF18, DV11, EBCB17, GBP13, HBP14,
HBS+11, KFS17, KS12, KMS16, KY17, Law19, LRW+15, LF12, M116,
PMS+15, Q17, SXW+18, SS10b, TAFD19, VDB14, YW17, YLK10].
periodical [KAS12]. periodicity [PDML19]. peripheral [KNS+17].
Periphery [ZCC19]. Perl [MGFRG12]. permanent [RS+12, RE12].
persistence [KCL11, SBB+17]. personal [CIP11]. personalized [QHZ+14].
perspective [MT15]. pertaining [OK14]. Perturbation
[BK13b, ADT+19, BRH+16, CS10, CZ19, GBR+14, KBB+17, KPST15, LV10,
MGRB11, NS11, SCRS17, SU18, TVGB15, ZX10]. perturbations
[LMRC15, Tic14]. perturbative [WL11b]. perturbed
[Bla15, FMW10, GN14, WU10, WYW09, YZZ11]. petabyte [Ano11a].
Petaflop \[BBF^{+13}\]. Petascale
\[OYK^{+14}, YBNY13, CBGY17, CBYG18, SKSK13, VCMS^{+13}\]. petascaling
\[SSS^{+11}\]. PETOOL \[OAKS11\]. Petviashvili \[LS12a\]. Pfaffian \[GBRB11\].
Pfaffians \[RW11\]. PFMC\[ BDGM^{+17}\]. PGAS \[BY17, TSTT13\]. Phase
\[BM19, DVB11, JC16, KV10b, LLSK17, Ots11, Raw15, WJHW14, XHLM12,
YLO13, AKR15, ABB^{+19}, BT17b, BMW14, BS12, CZD15, CHW^{+15},
CMR17, Eys14, FFA17, FKS^{+19}, FFIH11, GTS14, GZW17, GLW14, GX15,
Hon10, JHH^{+19}, Ki10, KSW15, KS15, Liu15b, MRS15, MKS10, MSHLS15,
MSL17, NS15, ÖKC11, PS14, QDZ^{+13}, Ram10, SYD17, Sie16, SJW10,
TK15, VDF15, VS19a, Wai12, WYH19, XGH^{+19}, YLK10, YZ19, ZAFAM16,
ZKG^{+18}, ZY19a, ZY19b, ZKS^{+18}, vdSM16\]. Phase-Amplitude
\[Raw15, Raw16\]. phase-covariant \[BS12\]. Phase-field
\[LLSK17, CZD15, GZW17, JHH^{+19}, TKP15, YLK10, ZKG^{+18}, ZY19a, ZKS^{+18}\].
Phase-fitting \[KV10b, PS14\]. phase-lag \[MKS10, NS15\]. phase-space
\[KSW15, ¨OKC11, XGH^{+19}, YLK10, ZKG^{+18}, ZY19a, ZKS^{+18}\].
Phasego \[Liu15a, Liu15b, LHWL16\]. phases \[BSWC14, EMW19, PS12\]. PHAST
\[Fri17\]. phenomena \[KS15\]. phenomenological \[BNV18\]. phenomenology
\[ACD^{+14b}, ABH^{+18}, BDDM18, BSW12, CFS13, LCE^{+13}\]. PHI
\[BFD^{+11}, RJKC16, CGSB18, Lya15, MSS^{+14}, SBE^{+16}\]. Philip \[Sco19\].
phone \[Sal12\]. Phonon
\[CP15b, Kon11, RE19, Sco13, BW16, CTT17, CCXC15, CRGB14, KA17,
Liu15a, NGM^{+10}, PMVG16, ZZSW19, ZZ17b, ZZ17b\]. phonons
\[CVK^{+17}, LCKM14, WCL14\]. PhonTS \[CP15b\]. photoelastic \[Wit14\]. Photoelectron
\[MB16, Jab19\]. photoionization \[Hei12, HH11a, LH11\]. photon
\[CMJ^{+11}, DKT14, HEPW13, LLE^{+18}, OK18, SMCB^{+15}, Tic10,
VDJ^{+11}, ZLM12\]. photon-based \[CMJ^{+11}\]. Photonic
\[BDGM^{+17}, HWCH11, HLW16, HLTW19, NJS17, PYW^{+14}\]. photonic-crystal
\[HWCH11\]. photons \[LN16\]. photorefractive \[Zi´o14\]. PHOTOS \[DPW16\]. photovoltaic
\[CLH^{+17}, RF15\]. phq \[ZZSW19\]. Phys
\[AAT^{+20}, Ano20, AZ17a, Ber16a, ERS10c, KYKN15a, Kru18a, LR16,
Nat10, Ras17, RC16, RHBH16, SGM11a, Sco13, SIMGCP14, SJY20, YQM14,
ZTG14\]. Physalis \[Sie16\]. physical \[AABC^{+13}, COK19, Che17, LCH11,
MD11a, MDPTTC17, Mel19, RKVL14, Sitt18, Sni14, ZF15\]. physicist
\[Hah12\]. Physics \[AAA^{+16}, Ano10a, Ano11b, Ano12a, Ano13a, Ano15a,
Ano16a, BG19a, CGX^{+19}, DS13c, Maż19, MLK^{+19}, Ram10, US18, Wn10,
ADF^{+15}, Ano10n, AM10, AM11, AMR19, BBH^{+18}, BDKS10, BCP13, BCI19,
CB15a, CB16, CPW17, Che11, CKhN11, DGPW11, DNP^{+12}, DPW16,
Des16, DKK^{+15}, ELL^{+17a}, DR1^{+16}, Hon18, JPCG15, JEC^{+12}, KV10a,
LPHH11, Mühl14c, ONS^{+15}, PBL^{+18}, QGLP13, Sha13b, Sha16, SLR^{+11},
Veb12, Wie15, YLK17, ZWLZ17, ZMV^{+13}\]. Physics-oriented \[CXG^{+19}\].
PI \[CMM14, KRM^{+19}\]. PIC \[FK12, GV15, HTJ^{+16}, KS16b, LYT^{+17},
LTP16, SBL16, VV18, VGM^{+15}, XYM^{+13}, YXD^{+15}\]. PIC/MC/Vlasov
\[FK12\]. PIC/MCC \[SBL16\]. PICPANTHER \[KKG^{+15}\]. Picture
\[BF16, BM13\]. PID \[OCF10\]. piecewise \[IH11, LV10\].
piecewise-linearized [IH11]. PIGLE [ATW+19]. PIMC [ZBG+16].
pinning [HBS+11, JW13]. pipe [Qia16]. pipeline [ECD+10, GCC+18].
pipelines [FWS+17, MSL10]. pipes [DMC10]. PISO [SQA+15]. PISO-like
[SQA+15]. Pitaevskii [ABB13, AD14, AD15, ABDR17, CR13, JCL+18,
KYSV+15, LBB+16, LYSS+16, MGL13, MGL16, SSB+16, VDAH16,
VVB+12, YSVM+16, YSMA+17]. pitch [HJ14]. pitch-angle [HJ14].
Pitfalls [SYE+18]. Pj [NDSH18]. placement [NZL14]. planar
[Aza13, BP12, BH13, MTE17, XD13]. Planck
[BMBC+17, Fuh15, JSMLM16, KBS12, PG17, SLEF17]. Plane
[MBF+10, AM14b, AD14dM14, DKSG16, GMF+17, HK15, JCW+13,
JGAL+13, KAW+10, LT15, MED11, MS11, PDC14]. Plane-wave
[MBF+10, LT15, MED11]. planet [HTT13, HTT14]. planewave
[CSPAD10, PBMAD12]. planning [CLH+17]. Plasma
[KC18, ZCC19, ALA+19, AJA14, BMU11, BRL12, BT17, BEK19,
CL11, CGSB18, CXL19, CHH+11, DBP+18, Evis14, FRF10, GBSY18,
HK12, HO13, HBP14, Hor10, Hon18, Hsu11b, KYKN15a, KYKN15b,
KTE+12, KMD12, KM17, KR15, KSYY13, LGL+18, LDR+17, LHH+12b,
LHH+12a, LID+19, LDF+16, MPS13, MLGVE14, MKU+12, MCM+12,
ML14, MN18, MA15, MM+11, NNWS15, OBL19, PYW+14, PBD+15,
PDJ10, Ram10, RRetVH12, SCB+17a, SCB+19, SLF17, SBE+16,
THDH14, TL19, sX14, sX19, XYM+13, Ya09, ZFR18]. Plasma-Material
[KC18]. plasmas [AM19, BSM13, BT17a, BBDV12, BB13h, CHH+11,
CFF19, DS11b, DOP17, FR15, GB14, HK12, HAK+14, KGG+16, LXR+18,
LH11, LH+19, LMK13, MF17, OILK17, PHT+19, PMS+17, PBL+18, RF16,
RFT+18, SS14, SCM+16, VBC+12, VV18]. plasmonic [HT12, SVGS18].
Plasmonics [WTH15]. plate [TKL+12]. platelet [ZZG+16]. platform
[AABC+13, AMR+18, CPW17, HJT+16, LWV18, RPD14, Sal12, SJY18,
SJY20, ZZ16]. platforms [LHZ11, PNL13, TK15]. PLATYPUS
[DT11b]. Plesset [KK14a, KBB+17]. plot [BGH+18, Liu15b]. plugin
[SCM+18]. PML [DV11]. PNADIS [ZLZ19]. POD [HJC19]. POINCARÉ
[MZE13]. point [Ano20, BMU11, BH13, BMZ+18, Buc19, CS10, CH11b,
DG10b, DMC15, K16a, KC18, MDG+12, NF17, Nik12b, PPy14,
PDL+18, Pra11, SGM11a, SGM11b, TGT11, dSFD11]. point-cloud
[KCN18]. point-transition [NF17]. point-wise [PDL+18]. points
[Fis12, GVR19, NO12]. Poisson
[CMI14a, CR16, BCDP18, Bot13, BC11, CDBM16, CCL18, CRSL18, CB16b,
CH18b, Dua10, DGG13, Ex17, GBN17, GJ13, HCSW10, JLV13, LCHM13,
LCHM13, LCR10, Miy15, Qia16, Qia17, RC13, VLPPM14, ZPvR16]. polar
[CZL+11, WCL14]. polarimetry [FBHB17]. polarizability [FBHB17]. Polarization
[KAvdL11]. polarization
[AKZ+13, CAGL13, Den20, MCP10, NLB+19]. polarized [AFIS12]. pole
[ASEA14, AMR17, PDL+18]. poles [BG19b, SAS11]. political [Cho11]. pollution
[MSML10]. POLYANA [DR15]. Polycrystalline
polydisperse \cite{HKPF19, MFLY19, OL12}, polyelectrolyte \cite{HB13}. Polygonal \cite{vdS13}. Polylogarithms \cite{ABRS19, MFLY19, OL12}. Polymer \cite{DF13, BL14, HCH16, LKL11, Lee18, MSZW11, MNC15, SAG13, WSTP15, dHGCS11}. Polymeric \cite{DEW16, SM19}. Polymers \cite{ACDdM15, SM19}. Polynomial \cite{IUM13, KP12a, CB13b, GDB10, GLX14, HKZN17, Jal10, SAG13, WSTP15, dHGCS11}. Polynomials \cite{ACDdM15, BDJS18, GST17, SPS10, WISA11}. Polystyrene \cite{RV11}. Polyurethane \cite{KDM17}. Pool \cite{BKS15}. Pople \cite{KS12, SS10a}. Population \cite{BWB17, VPP12, WRB11, YH15}. Population-based \cite{VPP12}. Populations \cite{FSJ16, HFOPF15}. Pore \cite{DADS11, OP12}. Pore-scale \cite{OP12}. Porous \cite{CTL15, FKS19, HZW19, HSF15, MPM14, OP12, RNdB19, SM14, vMB14}. Portable \cite{CDSG11, HTJ16, RDC18, RBG19, SGM18, SS13a, VLL17, dBCH14}. Porting \cite{HD11}. Posed \cite{LLP15}. Positive \cite{Has11, XZF12, SMdONF14}. Positivity \cite{SP18b, dTOV18}. Positivity-preserving \cite{SP18b, dTOV18}. Positron \cite{GGGH14, Gre18, Kol15, SMOB19}. POSSMat \cite{MCY16}. Possible \cite{´ASTT16}. Post \cite{LAA10}. Post-processing \cite{LAA10}. Posteriori \cite{CLL16}. Potential \cite{MCY16, AM14b, BBE10, BNAB11, DBDP12, DR12, FMRP16, FZY13, FPY17, GC10, GC13, GC16, GCK19, GB11, HSF19, HJ15, JZZ19, LCQF18, LRES18, LRR17, MC16, MEG12, MAM14, ORCR17, PBMA12, PH11, PB16, RS12, RFPM17, SGS16, TM14, WZHE18, WN19, Wit14, XNK16, XD13, XHD15, ZHCR18, ZY19a, ZMPT13, ZFBR11}. Potentials \cite{BNV18, BL14, BY13, BSWC14, DT18, DHR14, Erm18, FCVH17, GH11, GD14, HLZ17, KK14b, KHKR14, KHN19, LYJH19, Ngu17, OPO11, OPSR13, OP14, THDS16, TVZ15, YW17, ZC12}. POTHEA \cite{GCVA14b}. POTLIB2Math \cite{TM14}. Potts \cite{DG16, Beo14, FDC12, KO13, KO14b, KO16, MEG12, NCH15, TD11, ZXF12, dSLF13}. Power \cite{ZLL18, CC10a, CH11b, EZBA16, SB11, SW12b, UW12, WWC16, WCT11}. Power-law \cite{WCT11}. PPA \cite{OK12, OK18}. ppohDEM \cite{NMS14}. Practical \cite{ABH19, Dan12, EPS15}. Prager \cite{GCH18}. PRAND \cite{BS14a}. pre\cite{DDJC19, RU13}. pre-determined \cite{RU13}. pre-esascale \cite{DDJC19}. Precipitation \cite{XHLM12}. Precise \cite{CKCS13, NKS15, ZY19b}. Precision \cite{AG12b, BDT15, CMMVR14, CMMVR16, CBB10, CH11b, GBFJ14, HS19, KB19, LGW13, LM16, MW19, MNO11, NO12, RC16, SLK19, SMGK14, TC12}. Preconditioned \cite{EFK19, HZKN17, LHJZ10, SAY18, SPP19, TKS19, VBS17}. Predict \cite{LOV10, Pra11}. Predicting \cite{JM11, WS11b, YS17, ZZH16}. Prediction \cite{AFZ17, AFZ18, ATCZ19, BK13a, DBD17, FLA16, Lit14, LZ11a, LZ11b, LOSZ13, MW19, MW14, SLY18, WLZM12}. Predictions \cite{BBH11a, DGPW11, KKK15, Pi10, RH11, SAE16}. predictor \cite{PAS11, PS14, SD10b, SA15b, TYH15, Yua19}. predictor-corrector
Gin10, HLM13, KMO19, KKK+15, Les16, OK12, OK18, WW13, YWW13].

**PROFESS** [CXH+15, HHS+10, KST14a]. profile

[ABB+19, Gio14a, VSG17]. profiles [AANA12J, MSNI11, Wai12]. profiling [CCY18].

**Program** [BS11, BS13a, BB13a, CGV13, DHR14, GBS16b, LSDD14, NS10, VPM16, AC13, AM10, AM11, Arb12, AMR19, Asi10, AZ17a, AZ17b, AKV18, BGM+14, BF16, BBPS14, BH14b, BFD+11, Bog16, CKLM10, CDTV10, CH11a, CATK11, CXH+15, Cip11, Cip13, CCGC13, CRNK12, CM14b, CO11, Dan11, Dat13, DEMM19, DDKM15, Dev12, DGK+14, EJG+19, FMRP16, Fer15, FCCTF18, Fis11, FEH11, Fri12, Gaol13a, GLS+13, GCCA14a, GCCA14b, GNT17, HSF+19, HLM13, HEF12, HHS+10, HL19c, JPSS10, Jia18, KKS+17, Kob13, Kol14, KS12, Kra11, LHC+12, LZL11, MC18, MUU18, MCA17, MPS13, MLW+10, ME18, MNV13, MGB18, MBGK11, MSNI11, NGG+13, NGM+10, ON14, OKM12, dlRJL14, PCR17, PS+17, Pit12, Pos18, RDP14, RFPM+17, SYZ+12, Sai10, Sar17b, SSG+10, SSS+18, SBB13, SDM+12, SDS+17]. program [STY15, STY18, SZM+14, SS10a, SLLP17, SY+16, YLL16, YTLS16, ZF16, ZBG+16, ZKW+15, ZYZ15, ZSW+17a, ZMCT12, ZZ17b, ZHL11, Zlo13, ZUT13, dB14]. programmable [Rap11]. programme [KB19, LTP+17]. programming [BY17, EGT+18, GRTZ10, JTW+17, LSYZ12, SV14, iSYS12, TSTT13, VvAV+11b, VvAV+11a, WMMK11, YHL11].

**Programs** [HL19b, ABB+14, Ano10o, AC16, Bjöll, CL15b, HD11, JCL10, JZZ+19, KO14b, Kom15c, KO16, KPST15, KYSV+15, KLM+19, LC10, LBB+16, LYSS+16, SS+16, VVB+12, YSVM+16, YSMA+17]. ProfO [BABC19].

**Project** [GTT+19, ABC+13b, DBK+14, GAC+17, LKPH19, LSJ13]. projected [BK12, Jan10, PR10, SKB10]. Projecting [BHS15, DHS14].

**Projection** [DAW+19, WX14, GHvdL11, Sal16]. Projective [CH19, LL12].

**Projector** [CKT17, DA16, Hol19, THJ+10, YLO13, JTH14, RCGT16].


**Proper** [HJH17, ST19].

**Properties** [AM14b, BKA+14, BIT12, CLC14, CHW+15, CSL+13, DSS+12, DES+11, EY11, Fri12, GWL+17, GM11, GRR+14, HCRD14, KAR+15, KMM+19, Kavl11, KZ14, LFKD18, LSDD14, LSG+12, MLW+10, MF17, MFS10b, MGB18, PVK+14a, PVK+14b, PMVG16, PGU19, RKGC+17, SPAW17, Ste17, TG11, Voy13, WXL13, WQ18, WYL11, ZZSW19, ZMJ13].

**Property** [FLW10, ZZ17a]. proportional [KB15a]. Proposal [BBC+13a, Yan16, Ano10o, DSS+19, KFS+13]. prostate [RMS+12].

**Protein** [Fri17, CB16b, LWL11, SZC+13, YK10, DPK+15]. Protein-like [Fri17]. protein-surface [CB16b]. proteins
CFFR15, HL19c, MLR10, iNSK+15, PNL13, WMI19]. **reactor**

[TGH+16, ZSW+17b]. **reader** [CGO17, Sta19]. **Real** [Ano19m, AAB+10b, BD10, CDL+12, LAS+17, MSH11, SP16, SBH+12, AAA+16, BW12b, BR14, BG11, CDMCN11, ECD+10, FZ16, JL19, KK16b, KHZ+18, KKL+18, KS16b, MC16, MBF+10, MSS+16, OOK+12, dJRL14, PVK+18, SCRS17, TL17]. **Real-space** [MSH11, SP16, SBH+12, BG11, FZ16, KKL+18, MBF+10, MSS+16, OOK+12, dJRL14]. **Real-time**

[Ano19m, BD10, CDL+12, LAS+17, AAA+16, BR14, JL19, PVK+18, TL17]. **Realistic** [Sol11]. **reality** [GHK19]. **realization** [BS11, GBS16b]. **realizations** [´ASTT16]. **realized** [NPAG11, RH11]. **rearrangement** [Bin13, UFKB19]. **Receiver** [SC14]. **receptors** [PDC14]. **reciprocity** [DG10a]. **recognition** [DAW+19, UIY11]. **recoil** [DIR+19]. **RECOLA2** [DLU18]. **recombination** [Fri12, SVG10]. **recommendation** [QHZ+14]. **reconfigurable** [RDN+17]. **reconfiguration** [KC14]. **reconnection** [PBE14, YJK11]. **reconnections** [CZ17]. **reconstructing** [PR10]. **Reconstruction** [MD11b, ALC18, CPCDdM18, FBHB17, GMH11, HZC19, LSK+13, LAS+17, SAS11, VL19, WFW14, YvOSM15]. **record** [BS14b]. **recording** [MP11]. **recoupling** [Wei99]. **rectangular** [JYPA18, Qia16, SK15]. **recurrence** [BBF+10, TO10a, WSO+12]. **Recursive** [PO14, Fen12b, KvdO11, ADH+17, DLU18]. **Red** [BGL+14, BTL+17]. **reduced** [CZ18b, KKCC19, Kom15b]. **reduced-order** [CZ18b]. **Reducing** [BH17, BHVMH15, CMSN18, GM17]. **REduction** [BK14, ASGLK10, BCS10, BKK13, BK15, BK16b, Che17, EPS15, GSB+14, MUU18, Me19, MZE13, MNC15, PZL+19, Per14, SH18, Stu10, ZWC+19, BKK13, BK15, BK16b, Sni15]. **Redundant** [QHZ+14]. **Reduce** [Stu10]. **reference** [DKG+14, DFM+15, Duf16, JP10, KKO19, SS11b, VS19a]. **reference-free** [DFM+15, Duf16]. **refined** [EZL+16]. **refinement** [ACMM19, AWK+16, FZX+14, GX15, JFC12, LH18, IWRQ16, MHV17, UBRT10, WQ18, YRR13, ZD15]. **reflection** [GCVA14a, Ram10, WS11a, Yan09]. **reflections** [NLSJ17]. **Reformulation** [LZP12]. **refractory** [SCN18]. **regarding** [MS15]. **Reg** [ASEA14]. **region** [CXL19, RetVH12, TKL+12, YWOD19, dSFdFF13, vMB14]. **Region** [OK10, HJGL18, HJGL19, SZM+14]. **Region-of-interest** [OK10]. **regional** [BB12]. **regions** [Smi14]. **regression** [AG12a]. **regular** [MKV11, NO12, Sch18, SSG+10, SSG+18]. **Regularization** [Pál12, dDYK+18, Fen12b, Kri12]. **regularizations** [DDH17]. **regularized** [DS11b, PDL+18]. **regulatory** [HH11b]. **reinitialization** [FHA17]. **rejection** [SOYHDD19]. **related** [KAS12, MHA+12, PAS11, PS14, SCW+11]. **relation** [WSO+12, sX14]. **relations** [SS13c]. **relative** [Bar11b, BSW14, FS17]. **Relativistic** [FGJB19, GLB13, Hsu11b, Mü14a, TM19, Aza13, Bab14, BHS18, BEKP19, CGM17, CEF16, EJG+19, Erm18, Fri12, GM11, GTS14, GBJ+10, GBJ+12, GBJ+13, GFJ+14, GBJ+15, GYW+10, HH11a, JGB+13, KB19, KHB14].
SARAH [DNPS13, Sta13, Sta14], Sassena [LS12b], SASSIE [CRNK12], satisfactory [DGST17], SATLAS [GdGB+18], saturated [JHJG14], saw [BBC+13a], SAWdoubler [SBB13], Saxon [DT18, MAM14], Sb [AM14b], ShNc [BKA+14], SC-NBL [KHN19], Scala [Pos19], Scalability [ZZG+16, APC+14, SCm13, VV18], Scalable [ASA18, AIG16, KMM+19, NSH+19, VFV19, BL19, BVC13, BY17, BHND16, BENK+17, DHJ13, DG10c, FWS+17, GGI+19, JPH+14, KC18, MTM13, VBG+10], scalar [AHK+12, BMS+16, CEZ16, LS19, LZZL10, PQTGS17, SAHP15, vH11], scale [BMC+11a, BC10, DdJC+19, Bis15, BHJ+15, BJH+18, BAF18, BY17, BC19, CB15a, CB17, CB18, DSW+15a, Deu16, DADS11, DO14b, DML+16, GS15, GHvdL11, GZL14, GHdF10, GBS+16a, GAO13b, HLS12, HLS+17, HKK11, JEPF14, JXtS16, JWcW17, JOK13, KHZ+18, LCQF18, LR13, LR16, MBS+10, MNCrC16, NLB+19, ORS+14, OP12, PLD+13, RLM13, Sch14a, Sha13a, SXW+18, SMUT19, SLZ16, SPSP18, Tau10, THD16, TIMM13, TIM+16, UBR10, VBG+10, WSI13, WDL11, WSH+12, WLZN17, YFAT17], scales [HCM19], Scaling [ZMJ13, AS11a, BH14b, BH16, CCWL11, FUSH14, FVH18, GNA+15, GYW+10, HHS+10, JWCW17, KBB+17, LD10b, MMO+17, OOK+12, RWKS15, YKK+19, dSVLP13, vMB14], scanning [Fer15, PSMS14, PSMS15, TCK+15, MAC12], Scans [Mau16], scar [TT811], SCATCI [ART17], scatter [LP15, MTO15], scatter-gather [MTO15], scattered [End11], Scattering [BD12, AV13, AKR15, AFIS12, Bab14, BH16, BH17, CKLM10, CAN11, CGrB14, CRNK12, EW14b, EW16, GLAC13, Gmc18, HCl6, HHT14, Hl19c, IB11, Jab17, KC14, KB15b, KL11, KvO11, LhJZ10, LN16, LS12b, LWES18, Lag+17, MLR10, OK14, PNL13, PR10, Pkr16, SMob19, Sng+11, Ser10, SKML11, SAs11, SDL+16, TACA15, TVGB15, WjCZ18, WFDK19, ZHSL13, ZYl+19, ELL+17a, XNK+16], SCbICG [GChL15], scene [CFCB12], scene-dependent [CFCB12], SCF [WPD+15], Scharfetter [PFFK19], Scheduler [ALS16], Scheifele [YZZ11], scheme [AAD13, AAD14, ACM11, ACTP15, BM13, BBC+13a, BE14, BMBC+17, BB12, CWS14, CzD15, CYN19, CWY+17, CEF16, DJ11, DM17, DOP17, DML+16, EW14a, EW14b, EGGW12, FOB+15, Fu19a, Fu19b, GN14, GRLS18, HP14, HZ11, Jiw15a, JSLM16, JPO10, KC14, KHK+11, KZC+10, KP14, LJE11, Les16, LS12a, LLXK16, LL19, LWES18, LB10b, MWI+19, MKU+12, MS14, MF17, McM17, MN18, MAA15, MBA+19, MS15, MD10b, ICD13, NO14, NQ16, INSk+15, OKM12, PZZL19, PA13, QSC14, RHw+12, RH11, SP16, SR12, SK15, SSH+13, SCLW16, SD10b, SA15b, SC15, SB11, Sok13, SW12b, SCm14, TKJ19, TD17, TYh+15, TCP13, UNK12, WZS+11, WG16b, Yua19, ZY19a, ZNT15, ZWC+19, dTOV18], scheme-independent [Les16], schemes [ACMM10, ACM12, BK16a, Cap13, CBAM12, CM14a, DBMR18, DJ14, FDZ17, GA10, GLW14, HWS16, HJ14, IKS19, JKS16, Kaw19, KPVvdH13, ILsSZ14, LYL+17, MIW+12, PFKK19, PTMDPK14, QA13b, SP18b, SYE+18]
self-consistent-field [Erm18, Pit12]. Self-energy
[BMC+11a, PB13]. self-force [AK15]. self-forces [ASGLK10].
[HPKF15]. self-organized [CGSB18]. self-polarization [Den10].
self-questioning [QHC+10]. selfadaptable [CFCB12]. Selfconsistent
[ELL+17a]. Semi [DS15, GHBL18, GHMB+19, KKC+10, MHHW19, BB12,
CZ15, DS10, Ein16a, FJK+17, GZZ19, GAB+16, IBP+15, JYPA18, Lan13,
LHH+12b, MCV18, MIW+12, MRVF13, QSC14, Ser10, SmDNF14, SHL+11,
UNK12, WG16b, Wei15, ZLL13]. semi-analytic [Ser10]. Semi-analytical
[DS15, FJK+17, MRVF13]. Semi-analytics [DS15].
semi-automatic [Wie15]. semi-axis [SMdONF14]. semi-classical
[MCV18]. semi-discretized [JYPA18]. Semi-explicit
[QSC14, Ser10]. Semi-Implicit [BB12, CZD15, GZZ19, IBP+15,
LHH+12b, MIW+12, SHL+11, WG16b]. semi-infinite [ZLL13].
semi-Lagrangian [Ein16a, GAB+16, Lan13, MIW+12, UNK12].
semi-magnetic [ACCB13, Bot12, CM15, CLL16, DJ12, GTC+11,
HHC16, MIH12, NAQ16]. semiconductors [BMZ+18, GC12, KOK17,
LHH+12b, PFFK19]. semidefinite [VvAV+11a]. semiempirical
[IIO16]. semismooth [CB15d]. semismooth-Krylov
[CB15d]. Semtex [BLAS19]. sensitivities [GA13].
sensitivity [CSC11, HS14a, KTA12, PPS10, SAA+10, SK10, TBZ12, WLH+12,
WLS13]. separation [MSRL10, SJW10]. separations [DS19]. sequence
[GCF+17, HLD13, OY13]. SequenceL [BBB+17a]. sequences
[DBB12, DB13, PdMML19]. sequential [AL17, NL14]. serial [CUL+17].
series [AddM16a, AdDM17, BDJS18, CZ17, CC10a, CO11, GMPFC+14,
HvWT17, LHC11, NO12, YZCS18]. SERS [CLY11]. SERS-active
[NS15, CK18, FM12, FHA17, Ki10, KN13, MBFB13, PVK+18, Pit12,
RCGT16, XHLM12, YS17, MFG+13]. sets
[Cor14, FBG10, GJLB12, JH15, SLC+13, VdLF14]. setting [CNS+14]. setup
[FJ19]. several [GCHL15]. sfermion [HEF12]. SFOLD [HEF12]. sGDML
[CSP+19]. SGO [CJJ+17]. SGS [ZSW+17]. Shafranov [HS14b, SVS19].
Shakhov [XZ+19]. shaking [RHHF12]. shallow [QM10, STA18]. Sham
[KKL+18, SC512, SCB17b, SPSP18, zYCG+18]. Shape
[DMG15, BNPPD19, NS11b, OK14]. shaped
[HSD17, KKO19, MSR+17, Nov17]. shapes
[AIG16, GTPWL12, GGGH14, HS19, XLX+15, YLYL17]. Shardlow
[LBMB+14]. Shardlow-like [LBMB+14]. SHARE [PLRT14]. Shared
[DKG+14, BKS15, CL15b, LRSS19, NFF15, TE18, WMRR17, WMRR19].
Shared-memory [DKG+14, NFF15, TE18]. sharing [TRM+12]. sharp
[CDL+12]. SHAPE [ME18]. shear [BF10, CMVRB+14, SPTP19].
shear-shear [CMVRB+14]. sheath [KMD12, KM17, KSY17].
GRZ10, GSB+14, GHMB+19, GB14, Gri11, GRTZ10, GTK+19b, HBE10, HBL+13, HL19a, HKJ+12, HTL, HvAS+13, HXW+13, HAN+16, Hsu11b, HB13, HHT14, HCSW10, JA17, JXTS16, JLM18, Ji12, JPM12, JAS17]. simulation [KOT+12, KDM17, KS19, KGFS18, KNS+17, KO12, KO13, KKO19, Kro16, KMJS16, KCSW10, JA17, JXTS16, JLM18, Ji12, JPM12, JAS17].

simulations [KOT+12, KDM17, KS19, KGFS18, KNS+17, KO12, KO13, KKO19, Kro16, KMJS16, KCSW10, JA17, JXTS16, JLM18, Ji12, JPM12, JAS17].
[AAT$^+_{20}$, AAT$^+_{14}$]. **SOFTSUSY3.0** [AB10]. **SOFTSUSY3.2** [AKH12]. **SOFTSUSY3.5** [AbdA15]. **SOFTSUSY3.7** [AMRdA17]. **SOFTSUSY4.0** [AC17]. **Software** [Jav17, MCY$^+$16, NFA$^+$16, SSP16, AKZ$^+$13, BMF$^+$19, BCG$^+$15, BRC$^+$16, CCPDdM18, CYOS19, Dan12, FBC$^+$12, GXF$^+$15, GJA$^+$16, HBF$^+$17, HM10, HM17, KMM$^+$19, KST$^+$14b, LPHG18, LSK$^+$14, MAW18, MNL19, MMY$^+$19, NBW16, ORI$^+$10, Ost10, PVH$^+$17, PMS$^+$15, RDP14, SD15, SCC$^+$12, Sh11, Sh12a, SLR16, SS18, Sou14, SJY18, SJY20, TL17, VPP$^+$12, WGG16, WGG$^+$19, WZS$^+$18, zYCG$^+$18, ZMvE$^+$13].

**Software** [OML11, PBF$^+$16]. **Software** [GTSL$^+$13]. **SOL** [FLSZ13]. **Soil** [OML11, PBF$^+$16]. **Software** [FLSZ13]. **SOL-core** [FLSZ13].

**Solar** [DJ12, FXZ$^+$14, GSKM15, HGCARM15, Kap16, WFZG19]. **SOLARPROP** [Kap16].

**Solid** [BCP$^+$16, Bot13, CCD$^+$16, HXW$^+$13, JPCG15, KS16a, Miu11, NGCI$^+$12, dlRAPL11, PLD15, QDZ$^+$13, UA17]. **Solid-fluid** [CCD$^+$16]. **Solid-solid** [QDZ$^+$13, UA17]. **Solid-state** [dlRAPL11].

**Solidification** [YK18].

**Solitary** [AS11b, DS11b, DN13]. **Soliton** [DT11a, Pål12, TD14, XLL15].

**Soliton-like** [XLL15].

**Solitons** [DG10b, GMHZ19, HWCH11, JPM12]. **SOLPS** [SCB$^+$17a, ZCC19]. **Solvation** [ZPH$^+$15]. **Solve** [AD14, ADdM12a, DG10a, JSLM16, ON14, RJLL16, SS13c]. **Solved** [ACMM10]. **Solvant** [CB14]. **Solvant-filled** [CB14]. **Solvents** [ZBG$^+$16].

**Solvant** [DSW15b, ALA$^+$19, BMC$^+$11a, BMCM$^+$11b, BKOZ16, BAR12b, BLAS19, Bot13, BC11, CVK$^+$17, CP15a, CPV13, CCL18, CZF18, CRLS18, CRA10, CFF19, CBB14, CDR$^+$15, DLBL16, DGG13, DM12, Ein16b, Exl17, FJK$^+$17, FSC13, FE11, FZY17, GS15, Gyal17, GBP13, GJ14, GJ13, GNP19, GG16, HWG$^+$13, HWM$^+$15, Hua17, HCHW11, KV19, KDM17, KMM$^+$17, KH12, LYP14, LW14a, LC15, LCM14, LXY$^+$17, LKPH19, LF12, LWJ18, LWP$^+$17, LCHM10, LCHM13, MC16, MTE17, MGL16, MR14, MCM$^+$12, ML14, MMF15, MVS15, MCL$^+$17, OILK17, ORS$^+$14, PZY16, PMS$^+$17, PBD$^+$15, Qia17, QSB19, RVDS16, RDVS18, RC13, RC16, SVGS18, SYS19, SKFP16, SSX14, SGW17, SLEF17, TL17, Ter17, UKKB19, VL19, VV16, VV18, WFZG19, WBS$^+$18, WC13, Wit14, sX14, YXT$^+$15, YWOD19,
Zag14, ZPH⁺15, ZPvR16, ZCG17, ZPS⁺18, HB13]. solvers
[AL17, BSK⁺18, BB13b, CB18, CGM17, CBB⁺10, CSV⁺18, DBMR18, DZ13,
FR15, GWF⁺11, HC17, Hoh18, JH cynical19, LV15, Qia16, VLPMM14, zYCG⁺18].
Solving [BAK⁺15, BAK⁺16, BAK⁺17, CD12, CBB⁺10, Dem13, DPB16,
DSP15, ENEO15, Fan19, Fil13, FGG11, HAK⁺14, HAH13, HS14b, IH11,
JC16, Jan10, LV10, RHH12, SMdONF14, VSO⁺13, BK11b, BMBC⁺17, CS10,
CKK⁺13, DT10, DM17, FGR14, GBSY18, GX15, HLLH16, HM12b, JPS10,
Jal10, Jiw15b, LLMW17, LBB⁺16, LYSS⁺16, LAG⁺17, MHHW19, MLS10,
MM12, IC13, NAQ16, PS11, QYM11, QA13b, QA13a, RL10, Ras09, Ras17,
SSB⁺16, SSH⁺13, SP18b, SCLW16, TY10, TKS19, UNK12, VVB⁺12, Wi19,
WFV14, XWF18, XZ12, YZWR14, YSVM⁺16, YSMA⁺17, ZHSL13].
SOM [KH19]. SOMA [SM19]. Some
[CEPI10, FG13, HWCdM19, MR13, MS15, ZHSL13, Er14, Ixa16, KD16].
soot [ZLFM11]. sooting [EZ16].
sorting [BDL⁺19, MEM⁺11, MM11].
[AZ17a, AZ17b, AFZ17, AFZ18, ATCZ19, BCP⁺16, CMC⁺15, CHC⁺11,
CYOS19, CFW17, CDR⁺15, DSK19, Dan11, DGHJ19, DBLP⁺18, DBLF16,
FLA⁺16, HSF⁺15, HKvH16, HW⁺15, Hua17, JWC18, JNN12, KDM17,
KPK⁺17, KSH14, LPC⁺15, LZ11a, LZ11b, LZ12, MK10, MZE13, MSN11,
MMY⁺19, MVS15, MGRF12, NMS14, NGCI⁺12, ORS⁺14, SC16a,
SPA17, SAHP15, SDL⁺16, TL17, TACA15, VBG⁺10, VB19, WFDK19,
WGG16, WGG⁺19, WFV14, WP14, WZ⁺18, XAPK14, Zag14, ZCG17].
Sources [EW14b, EW16, EEGW12, KM10, ML14]. Space [BBB17b, FDZ17,
JKG⁺18, BG11, BAK⁺15, BAK⁺16, BAK⁺17, BY17, CDBM16, CVK⁺17,
Chr18, CSV⁺18, EUT⁺15, Esv14, FZ16, FGLB12, GTS14, GBSY18, HLW16,
JBG⁺17, JLM18, Jia18, KKL⁺18, KS16b, KSW15, KS15, LOK⁺16, MDH18,
MC16, MBF⁺10, MJB⁺10, MGB18, MSS⁺16, MSM⁺11, MS11, NAQ16,
OB10, ÖKC11, OOK⁺12, dirJL14, PSB11, PSBT12, QYM11, QA13a,
Qia17, SP16, SCRS17, SA15a, SBH⁺12, UFK19, XG⁺19, ZD15].
space-charge [Qia17]. Space-dependent [BBB17b]. space-fractional
[MDHD18]. Space-time [FDZ17, CVK⁺17, Chr18, JLM18, Jia18].
spacecraft [MPS13]. spacecraft-plasma [MPS13]. spacegroups
[AZ17a, AZ17b]. Spaces [Asc10, Bog16]. spacetimes [Müll14a]. spacewise
[PR13]. spacewise-dependent [PR13]. SPARC [GS17b, GS17a]. Sparse
[YOM⁺19, CB16a, DN18, GBP13, GJ18a, Kra10, SPP19, TS19]. sparticle
[AC17]. Spatial [RLBC⁺14, ABCM14, BMF⁺19, BNA11, FCC15, KS16b,
LST15, LJB⁺16, MCM17, MLS10, MSRL10, MGR16, TZW12, VV16, FCC15].
spatially [MD10a]. spatio [KEH12]. spatio-temporal [KEH12]. Special
[MSI⁺10, iSSMI11, QA13a, RL10, ZD15]. Special-purpose [iSSMI11].
specialist [OTC14]. species [DGS⁺19, HAK⁺14, NNWS15, SM14, SCM14].
specific [AZ17a, AZ17b, Gor19, LPC⁺15, SGM18, XZF12]. specific-heat
[XZF12]. specific-purpose [LPC⁺15]. specified [MD10b]. specifying
[DZ15]. spectra
[Aza13, AKV18, BW16, BPMS16, Bru13, CM15, CCL15, CGV13, DA16,
ECSH16, GG16, HW11, MGRB11, MSPD12, MNPY14, MB16, PBMAD12, Pos18, Rfu13, SC16a, TPK12, TVGB15, WFDK19, YLTS16, Zlo13.


Speed [LGW13, MSR+17, CNS+18, Fu19b, JTP15, MTE17, VL19, WLM14, YvOS15]. Speed-up [MSR+17]. Speeding [GMC18, MED11, KC14]. Speeding-up [GMC18]. Speeds [SSX14].


stable [DSPJ10, GZW17, Ram14, SS13b, SPS10, WYH19, ZY19a, ZKS⁺18]. STAG [NCB18]. stage [CCW10, PZZL19]. Staggered [HP14, BCDI12, DJ11, GM18, Mar15, SCLW16, TH17]. Standard [AB10, AAB⁺10a, BM19, DET12, Deg15, ABB⁺14, ABDa15, AC17, AMRdA17, Ano10o, Cou13a, Cou13b, GLX⁺14, ABC⁺18, BCPS11, BCP13, HLM13, KP1⁺16]. standing [ACTP15, BMF⁺19]. star [SEW12, SEW14].

Stark [CFSK14, PMMW15]. Stark-effect [CFSK14]. STARlight [KNS⁺17]. stars [VPM12]. star [SDJ⁺12]. starting [RLS16]. State [BBRS19, RSBB14, ASE14, BP12, BKS15, Bis15, BK11b, BTC⁺17, CR13, DBK⁺14, DLW⁺18, Eba13, ELL⁺17a, FTI18, Faw10, FDWC12, GM14, HM12a, JWL13, JTT11, JMG⁺17, KO13, KSY17, MST⁺18, MEG12, NDSH18, OK12, OML11, dRARPL11, Pat12, RLS16, SAW18, SGSG19, TPC16, VS19b, WX14, XZF12, dSF18]. state-of-the-art [Pat12].

state-to-state [ASEA14, BTC⁺17, TPC16]. States [JWC18, ABDR17, ACTP15, AM17, BR13, BVC13, CLHL19, CW15, Dua12, FLE19, GH11, HL19b, JDG12, KHL11, LKM⁺16, LV13, Liu15a, LB10a, LB11, LB12, LB13, MH11, Mis12, Mis13, MNPY14, NJS17, RV10, TTS11, XJS16, ZAHA10, dSLF13, vH18, KBLJ18]. static [Fuk17, GB17, dRL11]. stationary [AD14, ABDR17, Fis12, GG16, MGL16, VDAH16, ZAHA10].

Statistical [Bin13, Mag18, SLC11, SM11, Ano11o, CSR13, ELL⁺17a, Fri17, HJE⁺19, KD16, LLHC11, MW12, PMMF15, Sin11, Sin12a, VLM11, ZF15]. statistics [Zlo14, dSVLP13]. steady [Bis15, HJGL18, HJGL19, JMG⁺17, KSY17, MST⁺18, NDSH18, SK15, YTTYA17, ZNT15, dSF18]. steady-state [JMG⁺17, MST⁺18, NDSH18, dSF18]. steam [CLW11]. steered [ZF15].


KH10, Pan15, SZ15, Zit11, KDP^+14, Mel19]. symbols [Nik12b, Wei11a]. Symmetric [CFMR10, CYSL12, ACC17, CDMCN11, CFSK14, CLW11, GBRB11, GHMB^+19, GCHL15, HC17, HM18, JOR^+12, KSW12, MCP10, NLSJ17, PAS11, PR14, RS12, REBS16, SW12a, SW13b, Sza13b, Sza13a, SJY18, SJY20, TC12, Yua19]. symmetric [SJY18, SJY20]. symmetrical [AAD14]. Symmetry [MW14, Alv12, BCDP18, CDTV10, CFSK14, FF11, GNT17, HJL^+14, LRC^+11, ZAHa10]. Symplectic [LQ18, MKS10, Bla15, CWJ19, CFMR10, CZS10, CYSL12, HDZ14, KMS14, KZC^+10, LS12a, LYL^+17, QSC14, RH^+12, SS^+13, SW12a, SW13b, WXL13, WWHW14, WWC^+16, XQ19, ZST11]. SYMLER [KDP^+14]. synchronous [BENK^+17, Fer15, SCM13]. synergetic [BP16, BSK^+18, ER19, GA13, MNL19, RCGT16]. systems [ASTT16, ASS18, AKR15, ABF19, ASPDL^+16, AGH^+16, AdDM^+12b, ACDdM14, BMC^+11b, DdJC^+19, BFPP12, BBS14, BKS15, Bis15, BVC13, BMW14, BC11, CR13, CLH^+17, CGM17, CZ18b, CLJ12, CYSL12, CSK^+19, CL15b, CB15d, CB16a, CR12, CBB^+10, CFFR15, Dan14, Dan16, Dan17, Dan19, DBJ11, DEW16, Er14, Ert15, FLW10, Fil14, FE11, FLW17, GLHR19, GJ18a, GS17a, GH11, GM16, GBJ^+10, GBJ^+12, GBJ^+13, GCHL15, HBL^+13, HL19a, HAN^+16, IUM13, JLA^+14, JWC18, JXTS16, JLW13, JNN12, JNN13, JGC^+11, KFS17, Kau13, KPA13, KHZ^+18, KI11, KO12, KS12, KPOR18, KGS10, LLQX19, LKM^+16, LCY^+11, Leol2, LRW^+15, LWYW11, LS16, LB10a, LB13, LKT^+16, LCHM10, LL12, LCHM13, LBP15, MPM14, MFMI15, Men11, MGS13, Miy15, NFD^+19, PFA^+15, PTMDPK14, PLCC12, QZU19, RF10, RAV11, RHC15, RCH16, RCH19]. systems [RLMG11, SW14b, SL17, SH18, SCJH19, SEG15, SGW17, SLR16, SS10a, SPP19, TM14, TDL^+14, UO15b, UO15a, Voy13, VBMP15, VB19, Vuk12, WXL13, WRB11, WAW14, WYSW10, WW10, YZW14, ZAHa10, dB14]. SYVA [GAN17].


Three-dimensional [CW16, dAfSVM12, LIJSW11, MNPF17, WWC16, BC11, DS13c, DO14b, FFT14, GTPWL12, HLWT19, HCSW10, KKP11, KP12b, KH12, KRB15, KKO19, LLXK16, LCQF18, Qia16, RWKS15, SFP11, SCLW16, XZF12]. three-level [WL11b]. three-nucleon [GDB10]. three-state [XZF12].

Three-step [Ume18]. Three-temperature [SC15, SC16b]. threshold [BH17, BKMP16, Has11, HST11, dSD12]. throttling [DSHS17]. throughput [EC10, ZZ17a, ZFZ19]. THz [WQ18]. Ti [Ell17b].

TIERRAS [TS10]. TIGER2 [BW15, MPB10]. tight [HSF19, HM17, Jac19, RJKC16, SHNM11, YLYL17, LSK14]. tight-binding [HSF19, HM17, Jac19, RJKC16, YLYL17]. TIM [LHC12, OTC14]. Time [DAW19, GTG11, HFK12, IBB18, LLQX19, LB10b, RJKC16, TD14, TC11b, TT11, AAD16, AddM16a, AddM17, Ano19m, ABD17, AH13, BS15a, BR14, BD10, BMBC17, BB12, BENK17, CZ18a, CMSN18, CVK17, CC10a, CH19, CKSM19, CCL12, CW16, CZZ19, CYOS19, Chr18, CHZ18, CO11, DS13a, DS10, DM17, DV11, DS15a, DKSG16, DHR14, DJ14, DM12, ECD10, FDZ17, FGLB12, FNPM10, Fri10, GS15, GMPFC14, GML15, GBR14, GM16, GVR19, GBSY18, GJHF14, GWF11, GMHZ19, HE13, HWG13, Has11, HC16, HLLH16, HC17, HL19a, HKe16, Hsu11b, HHC10, HW15, Hua17, HM18, IW15, JLM18, Jia18, JL19, JdBG14, JMG17, KK16b, KBSP19, KYS15, KSY17, LLHC11, LV14, LS15b, LLP15, LTP17, LAS17, LBB16, LYSS16, LR13, LR16, MW119, MC16, MGRB11, MGL16, MC10, MBFD12, ICD13].

time [MC17, NPM16, NAQ16, ON12, PS11, PSBT12, PM16, PVK18, PTMDPK14, PBS17, QYM11, QA13a, QWZW18, RE19, Ram14, RVDS16, RDVS18, SHT18, SSB16, SLY18, SKFP16, SVV19, SSH13, SGW17, THz [WQ18]. Ti [Ell17b].

Thick [SMUT19]. Thick-restart [SMUT19]. thickness [CDSG11]. thin [BL14]. Three [MAM14, NS15, VEB18]. Thomas [GLHR19, SLK19]. Thouless [RCM16]. threads [CUL17, sLqSqL13]. Three [BY13, CW16, dAfSVM12, HWS16, LIJSW11, LB13, MNPF17, SC15, WWC16, YWX11, ABB16, BC11, BKM14, BK16b, CS16, DS13c, DMC10, DO14b, EKO16, Exl17, FFT14, GTPWL12, GBD10, GSKM17, HL16, HLWT19, HCSW10, Ixa16, JWCW17, KKP11, KP12b, KH12, KRB15, KKO19, LA13, LLXK16, LCQF18, MAWK18, PBE14, Qia16, RWKS15, SFP11, SCLW16, SC16b, TSIM16, Ume18, WL11b, XZF12, ZFH14, ZZG16]. three- [GSKM17]. Three-body [BY13, LB13, EKO16, Ixa16].

Three-dimensional [CW16, dAfSVM12, LIJSW11, MNPF17, WWC16, BC11, DS13c, DO14b, FFT14, GTPWL12, HLWT19, HCSW10, KKP11, KP12b, KH12, KRB15, KKO19, LLXK16, LCQF18, Qia16, RWKS15, SFP11, SCLW16, XZF12]. three-level [WL11b]. three-nucleon [GDB10]. three-state [XZF12].

three-step [Ume18]. Three-temperature [SC15, SC16b]. threshold [BH17, BKMP16, Has11, HST11, dSD12]. throttling [DSHS17]. throughput [EC10, ZZ17a, ZFZ19]. THz [WQ18]. Ti [Ell17b].

TIERRAS [TS10]. TIGER2 [BW15, MPB10]. tight [HSF19, HM17, Jac19, RJKC16, SHNM11, YLYL17, LSK14]. tight-binding [HSF19, HM17, Jac19, RJKC16, YLYL17]. TIM [LHC12, OTC14]. Time [DAW19, GTG11, HFK12, IBB18, LLQX19, LB10b, RJKC16, TD14, TC11b, TT11, AAD16, AddM16a, AddM17, Ano19m, ABD17, AH13, BS15a, BR14, BD10, BMBC17, BB12, BENK17, CZ18a, CMSN18, CVK17, CC10a, CH19, CKSM19, CCL12, CW16, CZZ19, CYOS19, Chr18, CHZ18, CO11, DS13a, DS10, DM17, DV11, DS15a, DKSG16, DHR14, DJ14, DM12, ECD10, FDZ17, FGLB12, FNPM10, Fri10, GS15, GMPFC14, GML15, GBR14, GM16, GVR19, GBSY18, GJHF14, GWF11, GMHZ19, HE13, HWG13, Has11, HC16, HLLH16, HC17, HL19a, HKe16, Hsu11b, HHC10, HW15, Hua17, HM18, IW15, JLM18, Jia18, JL19, JdBG14, JMG17, KK16b, KBSP19, KYS15, KSY17, LLHC11, LV14, LS15b, LLP15, LTP17, LAS17, LBB16, LYSS16, LR13, LR16, MW119, MC16, MGRB11, MGL16, MC10, MBFD12, ICD13].

time [MC17, NPM16, NAQ16, ON12, PS11, PSBT12, PM16, PVK18, PTMDPK14, PBS17, QYM11, QA13a, QWZW18, RE19, Ram14, RVDS16, RDVS18, SHT18, SSB16, SLY18, SKFP16, SVV19, SSH13, SGW17,
traveling [JA17], TRAVIS [MTM14], treat [FCCTFR18].
treatment [BKC+17, FZR19, Fuh15, KPPC13, MCNR16, NMCR15, 
DG10b, DS11b, JEF14, JPM12, KS16a, KYKN15b, KO12, KO13, LLSK17, LST15, LHH+12b, LR13, LR16, MSZW11, QSB19, SLR16, SDJ+12, SJW10, TT14, XZ12, dTOV18. two-electron
AG12b, GH11, JH15, KK14a, LB10a, YÇÖ15. two-flavor [CDS+13b].
AG12b, GH11, JH15, KK14a, LB10a, YÇÖ15. two-fluid
ALA+19, KTE+12, LOL+18, ML17, SQA+15, ZFR18. Two-grid
AG12b, GH11, JH15, KK14a, LB10a, YÇÖ15. two-layer
[AG12b, GH11, JH15, KK14a, LB10a, YÇÖ15].
AG12b, GH11, JH15, KK14a, LB10a, YÇÖ15. two-layered
PP13. two-level
BKS15, LW14a, LY16, ZHC16. two-loop
AMRdA17, BH13, CB13b, CCGC13, Ert15, FG13, FPY+17, Gnu19, HF16, HBS+11, IUM13, KBSP12, MNOO11, NS15, PPy14, PKT15, PDRG10, RJW+19, SLZ16, TL17, WFV14, Wu10, WL11b, YYF19, SAS11, MWCY14. type-II
HBS+11, SAS11.

U [CHW+15]. uasiparticle
SK10. UCL [CYD11]. udkm1Dsim
SBH+14. udocker
GBC+18. UFO
DF+12, Sta13. ultra
HEPW13, KVV19, KNS+17, QYM11, TIM+16. ultra-high
HEPW13, KVV19. ultra-large-scale
TIM+16. ultra-peripheral
KNS+17. ultra-relativistic
QYM11. ultracold
BG11, SJHS19. ultrafast
FWS+17, NFI17, SBH+14. Ultrahigh
VV18. Ultrahigh-order
VV18. ultrashort
GC12. ultrashort-pulsed
GC12. ultrasonic
RLMG+11. umbrella
IIO16, IFO18. UnMTracker
SW+17a. unbounded
Exl17, GMHZ19. uncertain
ÅSS18, MCL+17. Uncertainty
CNS+14, CC16, HHM+15, KKK+15, KZ14, LCRL10, LXX14a.
Unconditionally
Ram14, ZY19a. under-ice
TS10. under-saturated
JHG14. underground
TS10. underwater
TS10. undirected
FLP10. UNEDF
BBC+13b. Unfolding
ZZD15, ZZ17b, ZZ17b. unification
ABdA15. Unified
DE13, Ram12, We99, CSC11, CSJ+17, KEH12, MRVF13, RHW+12, Sch14a, SK12, sX19, YK18, zYCG+18, MW19.
uniform
BDP16, CDMCN11, GBN17, KS15, LA13, LFG14, PdMML19, Ser10, Ser17, Wit14, YQM12, YQM14. uniformly
Gwi16, SKK11. union
TMS19. union-find
TMS19. Unique
WLG+13. UNIST
LLE+18. unit
Laz15, MEM+11, RC18, Tic10, MSML10, YLO13. Units
Boe18, APRG11, BK11a, BHS18, BJWC13, CDS13a, Col14, DBDP12, DS11a, DF13, FSH13, FUSH14, FCVH17, FVH18, Fil14, FZY13, HAN+16, LAS+17, MED11, NPAG11, PLD+13, SH12b, TD11, WDL11, WWFT11, Dem11. Universal
CCW11, DNP+12, BDDM18, DGW111, EGPS10, GGI+13, KRM+19, SJ11, DDF+12. Universality
Fri10, PM13. unknown
PR13.
unknowns [YBK+11]. unparticles [AAB+10b]. unsaturated [GTSL+13]. Unsteady [FJK+17, SL14, TY10, Tia11, TCP13, TPC16, Uty14]. unstuctured [ASGLK10, AK15, ALA+19, Cha19, GLHG12, HWCD19, LYP14, LJWK11, LWQ16, MTO15, OCM+19, PZZL19, PBD+15, SP18b, SC15, ZS13]. unstructured [ACAL10, AK15, ALA+19, Cha19, GLHG12, HWCdM19, LYP14, LJWK11, LWQ16, MTO15, OCM+19, PZZL19, PBD+15, SP18b, SC15, ZS13]. unstructured-grids [SC15]. unweighted [Gag12b, Gag12a, GH18, GHN19, WW12]. Update [ABB+14, CYD11, KT10, AMJ18, BCMS10, CK19, GMSK17, HJGL18, HJNL19, NM14, TJDB11, Tab16, Tom16]. Updated [GAC+17, Hol19, KKK+15, Cip11, LCE+13, LW16, MBGK11, MYP+14, MG10b, PVK+14b, SYZ+12, SYZ+13]. upgrades [LS15a]. upgrade [Dan11]. upgraded [AMR+18, CWW10, CWW15, OKP10, Shal6, ZYL+15]. upper [CPCDdM18]. Uquantchem [Sou14]. use [ERPDFLS15, KAR+15, Kom15a, LCJ10, MNV13, Sou14, ZDWM17]. Useful [Bar11b, HWCD19]. user [AKK+18, BBG+13, CFL13, GLR17, GBC+18, RFP+17]. user-friendly [CFS13, RFP+17]. uses [CEPI10]. Using [BS14a, CSR13, RMC16, AM14b, APRG11, ACD+14a, AGMS15, Ano20, ALC18, Asc10, AH13, APC+14, AAJA14, BSM13, BdVGS11, BH14b, BL18a, BD10, BKM11, BCM+16, BTC+17, BVSG19, BGHN19, BY17, BS12, BMDP19, CKLM10, CL15a, Capt13, CHNS18, CB13b, CAN11, CC16, CMSV14, CSP+19, CUS+13b, CKK+13, Cip11, CB+10, CB+18, CH11b, CB14, CB16b, CL13, CLB11, CRNK12, CMS17, DXY+19, DM17, Dem13, DRUE12, DKOS14, DM12, EDPZ19, Enl16b, EKDG15, FJK+17, FDWC12, FNPMB10, FWS+17, FZY13, GBP13, GMSK17, GA10, GSB+14, Gor19, GMH11, GSY+10, GM18, GRTZ10, HTJ+16, HCC14, HAN+16, HHC16, HZC19, HKK11, Ihn12, JK13, JU17, JSLM16, KK16a, KHI11, KTB17, KK14a, KD17, KKK11, KMM+19, KN13, Koh15, KS12, KKS18, KST+14b, KHRK14, KCS+15, LLHC11, LD10b, LA13]. using [LBM+14, LOK+16, LWZ14, LXY+17, LXR+18, LHH+12b, LS12b, LTP+17, LAS+17, LNSD15, LGK18, LW+17, LRSS19, MED11, MGRB11, MHV17, MP11, MSI+10, MRVF13, MAz19, MC12, MVI+16, Mis12, MM10, MSML10, MLK+17, MLK+19, MGR16, MSS+14, NGM+10, OBH10, OKM12, OYK+14, PSBT12, PPV+11, PDRG10, PVK+17, PDL+18, PSL+17, PR10, PR12, PCEH15, PMVG16, PA13, RE19, RDP14, RMS+12, RLGMG+11, SCB+17a, SAW18, SEW12, SEW14, SOON11, SW14c, SWL+15, SPMM11, SD10b, SA15b, SLR+11, SSF+14, Sie16, SC15, SN16, SPS10, SKH+10, SHL+11, SBH+12, SS10a, SOYHD19, SK+13, TOB+14, TVGB15, TW15, TCP13, UbR10, VSO+13, VDA+19, VvAV+11a, VJC12, WISA11, WW15, WLG+13, WAHL13, WMRI17, WRMR19, WTV14, WAW14, XHLUF+18, XLX+15, XYZX19, YZ16, YK10, Yi11, YBK+11, YBYN13, YEL14a, YB13, YXT+15, YG12, ZBG+16]. using [ZDWW10, ZKG+18, ZMV+13, dJBIM16, VFV19]. USPEX [LOSZ13]. utilitarian [BC19, CB15a, CB17]. utilization [sLqSqL+13, SMCB+15]. UV
UV-divergent

V [Maž19, DGPW11, LS11, RF10]. v.2 [JPSS10]. v.3 [MNL19]. v.0.7 [Hua17]. v.03 [GBJ+13]. v.04 [GES13]. v.05 [GFJ+14].

v05-Implementation [GFJ+14]. v.1.0 [GTK+19a, HM12a, LKPH19, Man16]. v.1.0.0 [BJ14]. v.1.01 [BS13b]. v.1.02 [CDTV10]. v.1.1 [AKK+18]. v.1.3 [LW16]. v.2 [CRC+13]. v.2.0 [Nat10, HAV+14, Nat09]. v.2.00d [SSK+13]. v.2.49t [SDM+12]. v.2.5 [Ros15].

v.2.73y [SDS+17]. v.3 [HCM19]. v.3.0 [AM11]. v.3.00 [PSL+17]. v.4 [AMR19].


Variation [KHK+11, MS14]. Variates [Rom15]. Variation [MKU+12].


Ver [BBRS19, RSSB14]. Verification [LLE+18, DGS+19, YG12].

Verlet [LYJY10]. Versatile [Sou14, ZSW+17a, ZPS+18]. Version [AAT+20, AFZ17, ATCZ19, BC19, CB17, FLZ+18, Hak19, HS18, ZDD+16, AC13, AFZ18, AC18, BPC13, BB13a, BH16, BLG14, Bon15, Bon16, BHW+12, BHH+15, CWW10, CWW15, Cip11, FLA+16, FGJB19, Gin10, GRR+14, GFH+10, GBJ+13, GCVAA14a, HAV+14, HD17, JCL10, Jia18, JGB+13, Kol14, KDM11, KUVV13, LCJ10, LZ11b, LRR+15, MFS10b, MAM14,
MYP+14, MG10b, Nat09, Nat10, NS11a, OKP10, Org15, dlRL11, dlRAPL11, PSL+17, PR12, Pit12, PVK+14b, RDVS18, RHHHI5a, RHHHI5b, SMO19, SSG+18, SRS+18, SDM+12, SDS+17, Sit16, SSK+13, TV10, WMI11, WW13, WRMR19, XW15, ZXL16, ZMPT13, DIR+19, FP14, Semi16, ZE16].

versions [Cip13, KRW13, dSdO12]. versus [FBN+13, RD10]. vertex [BDGG19, Eks11, Sus17b]. vertexing [Dim14]. vertex [KRW13, dSdO12]. versus [FBN+13, RD10].


wake [BEKP19]. wakefield [LV19, MFS⁺10a]. Walk [RNdB19, IW15, KMS19, UO15a]. walks [BBW11, FRW17, GMO19, PBS⁺17, SBB13]. wall [BDP16, BNO17, CdLLOL19, EKK14, JU17, MRVF13, MRL19, PHT⁺19, Uty14, ZPS⁺18].


Wang [San15, BR13, Boe18, CND11, KO12, KO13, KO14b, Kom15a, Kom15b, Kom15c, KO16, PEMSI9, SMJ17, Sin12b, WSTP15, YK10, YL12]. Wannier [AWK⁺16, BCC⁺18, ERP⁺12, KAW⁺10, MYP⁺14, NGM⁺10, PHT⁺19, PVMG16, SPMM11]. wannier90 [MYP⁺14].


watershed [ORS⁺14]. waterway [San11]. Wave [RCGT16, SS14, AV13, AM14b, AM19, ABH⁺19, Bad11, BF16, BMF⁺19, CKT17, CLJ12, CZL⁺11, DS11b, DN13, DZ13, DKS16, DHR14, DA16, EUT⁺15, FYK18, FM12, GB14, GBSY18, GCC⁺18, GCVA14a, Hol19, HK15, HZ11, HHC⁺10, JCW⁺13, JGAL⁺13, KH11, KM10, Kir10, KV19, LT15, LZZL10, sL10, LYL⁺17, MDHD18, MED11, MBF⁺10, MHWH19, MA11, MSH11, OWS⁺14, PG10, PYW⁺14, QLE16, Raw15, RFSF18, RKT⁺18, RE12, SFV19, Sar17a, Sar17b, SWS⁺12, SKH⁺10, TL17, TVT⁺16, TH17, THJ⁺10, VDA⁺19, WGG16, YLO13, JTH14]. wave-function [KV19].


References


Abedian:2013:HOW

Abedian:2014:HOS

Azooz:2014:LPR

Azooz:2012:PNT

Allanach:2014:NMS
Aslanyan:2017:ECD


Allanach:2020:CNM


Allanach:2010:IPV


Antoine:2013a:CMD


Alioli:2014:UBH

REFERENCES


**Ablinger:2016:CTL**


**Athron:2019:BFF**


**Aebischer:2018:WEF**

REFERENCES


[ABH*18] Peter Athron, Markus Bach, Dylan Harries, Thomas Kwasnitza, Jae hyeon Park, Dominik Stöckinger, Alexander Voigt, and Jolst Ziebell. FlexibleSUSY 2.0: Extensions to investigate the phenomenology of SUSY and non-SUSY models. *Computer Physics Communications*, 230(?):145–217,
Auzinger:2019:PSM


Awile:2012:FNL


Ablinger:2019:NIH


Angeli:2013:AEM

REFERENCES


REFERENCES


[Adams:2019:CMC]


[Arsoski:2015:EFD]


[Angelani:2011:NMB]


[Antoine:2014:GMT]


[Antoine:2015:GMT]

Xavier Antoine and Romain Duboscq. GPELab, a Matlab toolbox to solve Gross–Pitaevskii equations II: Dy-
REFERENCES


REFERENCES

Avellar:2015:IFD


Alves:2016:IGF


Alves:2016:NMI


Alves:2017:APC


Alwall:2015:CDR

Actis:2017:RCO


Arthuis:2019:AAG


Auer:2018:MIM


Akushevich:2012:MCG


Avery:2017:XNV


REFERENCES


Arthur:2013:MCI


Augustinsky:2013:IGF


Aldegunde:2015:ECS


Allanach:2012:CNM


Adler:2018:VIS

REFERENCES


V. I. Azarov, A. Kramida, and M. Ya. Vokhmentsev. IDEN2 — a program for visual identification of spectral lines and energy levels in optical spectra of atoms and simple molecules.
Ahmed:2013:BSS


Antoine:2017:CPS


Asensio:2019:GEI


Appel:2018:ERI


REFERENCES


Anonymous:2010:EBd


Anonymous:2010:EBe


Anonymous:2010:EBf


Anonymous:2010:EBg


Anonymous:2010:EBh


Anonymous:2010:EBi

Anonymous:2010:EBj


Anonymous:2010:EBk


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Anonymous:2014:EBd


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REFERENCES

Anonymous:2019:EBk


Anonymous:2019:RTD


Anonymous:2020:CBP


Aldecoa:2015:HGG


Ayala:2014:DHI

Alcaraz-Pelegrina:2011:SPP


Aichhorn:2016:TDT


Amaku:2010:DCD


Abrarov:2010:HAA


Aragon:2014:CIAa


Ahmed:2011:RSM


Alexandrescu:2011:ENM


Agarwal:2016:GCA


Afibuzzaman:2018:SND


Ascasibar:2010:EMP


REFERENCES


Afshar:2013:ESR


Andrienko:2013:SHM


Acs:2018:CAS


Acs:2016:CAP

Adachi:2019:SCM


Avery:2019:XNV


Avidor:2019:PP1


Adhikari:2013:CWP


Assmann:2016:WOC

An:2011:SCM


Avery:2017:CRO


Avery:2017:ROS


Azadegan:2013:MPC


REFERENCES


REFERENCES


[Barletta:2011:CCD]

[Barnard:2011:UEM]

[Barletta:2012:CCD]

[Bigaouette:2012:NGM]
Bourchtein:2010:ICN

Bourchtein:2012:SIT

Bazavov:2013:PPM

Brambilla:2013:EIB

Beerwerth:2015:KSM
Belanger:2011:ISD


Barducci:2015:XEQ


Basagaoglu:2017:CPS


Bazan:2017:SDP


Barducci:2018:CLN


**Bethune:2019:MSE**


**Baron:2011:CKD**


**Basso:2013:PGS**


**Bogner:2013:CNQ**

REFERENCES

171


REFERENCES


REFERENCES


REFERENCES


REFERENCES


Beliakov:2013:EIBb


Bolis:2016:APA


Bazzotti:2010:UGA


Belyaev:2013:CCP


Beale:2016:OSC

REFERENCES


Belanger:2011:SLI


Bertone:2014:APE


Bali:2010:ENR


Blanes:2017:HOC


Busato:2018:OOT

REFERENCES


REFERENCES


Beuria:2018:LCP


Bonciani:2019:NRC


Butykai:2017:PPF


Barrio:2018:OLA


Barasinski:2011:QEH

A. Barasiński, A. Drzewiński, and G. Kamieniarz. Quantum effects and Haldane gap in magnetic chains with al-

**Belov:2010:HXB**


**Beck:2019:ASO**


**Berger:2016:HWN**


**Bell:2015:ETC**

REFERENCES


Byun:2017:DSI


Berg:2014:DSS


Berg:2016:CLS


Berg:2016:LSF


Beu:2011:SFA

REFERENCES


REFERENCES


REFERENCES


REFERENCES


REFERENCES


REFERENCES


REFERENCES


Busa:2012:ACO


Brein:2013:VHS


Bingemann:2013:SIS


Biswas:2015:IAD


Brugnano:2012:TSF

REFERENCES


REFERENCES


REFERENCES


Bilal:2014:TPS


Barnes:2017:ITE


Bytev:2013:HHF


Blobel:2011:FAC

REFERENCE


[BKPT12] W. Michael Brown, Axel Kohlmeyer, Steven J. Plimpton, and Arnold N. Tharrington. Implementing molec-
REFERENCES


Biborski:2015:CSD
Bakx:2016:FSO
Batistakis:2014:SGT
Benedetti:2018:CM
REFERENCES


REFERENCES


REFERENCES


REFERENCES


REFERENCES


REFERENCES


REFERENCES


REFERENCES


Bhattacharya:2014:EPT


Brazzano:2016:BMA


Bernaschi:2011:BGC


Brock:2016:FBO


Bhat:2018:OES

Pushpalatha C. Bhat, Harrison B. Prosper, Sezen Sekmen, and Chip Stewart. Optimizing event selection with


Brewin:2010:BIC

Bruneval:2016:MMB

Bespamyatnov:2012:ANB

Brunetti:2013:FFG

Barash:2011:RPL
REFERENCES


REFERENCES


[Barker:2015:DDT]

[Begau:2015:ADL]

[Bernal:2013:AGM]

[Borgoo:2010:MED]

[Blinne:2018:SAN]
REFERENCES


[B Buckley:2012:FSP]


[Buckeridge:2014:APD]


[Basko:2017:HML]

REFERENCES


REFERENCES


[Block:2010:MGA] Benjamin Block, Peter Virnau, and Tobias Preis. Multi-GPU accelerated multi-spin Monte Carlo simulations of

**REFERENCES**


REFERENCES


Brown:2013:IMD


Buaria:2017:HSP


Comesana:2013:SSP


Cai:2011:CSB


Chaabane:2011:ATD

REFERENCES


Cheng:2015:JHN


Ciaramella:2015:SFS


Ciaramella:2016:LCS


Cooper:2016:PBM


Cardall:2017:GNB


Clay:2018:GAP


Carrettoni:2010:GNT


Cho:2010:WFM


Cho:2012:RWW


Chen:2014:ECC

REFERENCES


[CCEC+11] Luis Cabellos, Isabel Campos, Enol Fernández del Castillo, Michal Owsiak, Bartek Palak, and Marcin Plóciennik. Scientific workflow orchestration interoperating HTC and HPC


[C CCLL18] Yong Cai, Xiangyang Cui, Guangyao Li, and Wenyang Liu. A parallel finite element procedure for contact-impact problems...

**Charbonnier:2012:CCR**  

**Cowan:2017:RAF**  

**Chien:2010:TSC**  

**Chen:2011:USF**  

**Chen:2015:CPP**  
REFERENCES


Corno:2016:ISL


Chen:2012:RTI


Chiron:2019:FAS


Castro:2011:UOO


Crespo:2015:DOS


-Capuzzo-Dolcetta:2013:PCD-


-Chowdhury:2013:EAT-


-Carapelle:2011:HMC-


-Consiglio:2018:PR-

REFERENCES


REFERENCES

ISSN 0010-4655 (print), 1879-2944 (electronic). URL


[CFW17] M. A. Chilenski, I. C. Faust, and J. R. Walk. eqtools: Modular, extensible, open-source, cross-machine Python tools

**Contino:2014:EIH**


**Cullen:2011:GLO**


**Cimrak:2014:EIE**


**Castro:2017:JFA**

REFERENCES


REFERENCES


[CHW+15] Hai-Xia Cheng, Yao-Wen Hu, Xiao-Xu Wang, Guo-Hua Zhang, Zhi-Wei An, Zhen-Feng Zhang, Biao Zhang, Tao Zhou, Ping Qian, Ying Liu, and Nan-Xian Chen. The phase stability, magnetic and vibrational properties of


Catterall:2012:OOC


Chang:2011:ESQ


Chen:2017:SFE


Ciappina:2012:SSC


Cunningham:2018:CSG

REFERENCES

Czyz:2019:EUE


Cichy:2013:LHA


Chojnacki:2012:TTH


Cho:2011:CPB


Cullen:2011:SFL


REFERENCES


Chen:2016:PEC


Cha:2011:WDW


Chau:2011:MAS


Cheng:2011:IRE


Cai:2010:ACT


REFERENCES


REFERENCES


Cardenas-Montes:2014:PPH


Cardenas-Montes:2016:RSI


Cyrol:2017:FMT


Cardenas-Montes:2018:VTR


Chekanov:2014:PIO


Cunha:2014:UQT


Cerda:2018:HST


Czerwinski:2011:TVL


Campoli:2019:KKA


Colavecchia:2014:ASA

REFERENCES


Chernatynskiy:2015:PTS


Cercos-Pita:2018:NGF


Ciappina:2014:CCS


Cherfils:2012:JPS


Certik:2013:DRG

REFERENCES


REFERENCES


Croker:2016:NDG

K. A. S. Croker. 

ngrav: Distinct gravitational interactions in GADGET-2. 


Chun:2010:HPT

Changbum Chun and Rathinasamy Sakthivel. Homotopy perturbation technique for solving two-point boundary value problems — comparison with other methods. 


Chandrasekar:2016:EEC

K. Silpaja Chandrasekar and M. V. Sangaranarayanan. Exact enumeration of conformations for two and three dimensional lattice proteins. 


Chen:2017:RLO

Parry Y. Chen and Yonatan Sivan. Robust location of optical fiber modes via the argument principle method. 


Cardoso:2013:LGF

Nuno Cardoso, Paulo J. Silva, Pedro Bicudo, and Orlando Oliveira. Landau gauge fixing on GPUs. 

REFERENCES


Campolongo:2011:SQS

[CSC11] Francesca Campolongo, Andrea Saltelli, and Jessica Cari-
boni. From screening to quantitative sensitivity analy-
sis. A unified approach. *Computer Physics Communi-

Chen:2017:UHS

[CSJ+17] Yongpin P. Chen, Wei E. I. Sha, Lijun Jiang, Min Meng,
Yu Mao Wu, and Weng Cho Chew. A unified Hamilton-
ian solution to Maxwell–Schrödinger equations for mod-
eling electromagnetic field-particle interaction. *Computer Physics Communications*, 215(??):63–70, June 2017. CO-
DEN CPHCBZ. ISSN 0010-4655 (print), 1879-2944 (elec-

Choi:2019:CMP

[CSK+19] Sangkook Choi, Patrick Semon, Byungkyun Kang, An-
drey Kutepov, and Gabriel Kotliar. ComDMFT: a mas-
ively parallel computer package for the electronic struc-
ture of correlated-electron systems. *Computer Physics Communications*, 244(??):277–294, November 2019. CO-
DEN CPHCBZ. ISSN 0010-4655 (print), 1879-2944 (elec-

Cho:2013:EOP

[CSL+13] T. H. Cho, W. S. Su, T. C. Leung, Wei Ren, and
C. T. Chan. Electronic and optical properties of bun-
dled single-walled carbon nanotubes investigated by the
first-principles method. *Computer Physics Communica-
tions*, 184(4):1077–1085, April 2013. CODEN CPHCBZ.
REFERENCES


[Clark:2018:PMB] M. A. Clark, Alexei Strelchenko, Alejandro Vaquero, Mathias Wagner, and Evan Weinberg. Pushing memory bandwidth limitations through efficient implementations of block-
REFERENCES


[CXG+19] Zhenping Chen, Jinsen Xie, Qian Guo, Qin Xie, Zijing Liu, Wenjie Zeng, Chao Xie, Pengcheng Zhao, and Tao Yu. Physics-oriented optimization strategy for the energy lookup algorithm in continuous energy Monte Carlo

**Chen:2019:ELF**


**Chen:2019:ELF**


**Chane-Yook:2011:UUC**


**Cartalade:2019:MRT**


REFERENCES


Curtis:2014:STS


Chen:2010:MSS


Chen:2019:AEA


Dixit:2016:ICX


REFERENCES

Daniluk:2019:RIT

deAnda-Suarez:2019:POS

Dattani:2013:FMP

Dalitz:2019:ATR

DiNapoli:2013:BIE
[DB13] Edoardo Di Napoli and Mario Berljafa. Block iterative eigensolvers for sequences of correlated eigenvalue problems. *Com-


REFERENCES

Daly:2012:MPC


Davis:2011:SSO


Dolfi:2014:MPS


Ducrozet:2016:HOO


DAlessandro:2018:DOS

Valerio D’Alessandro, Lorenzo Binci, Sergio Montelpare, and Renato Ricci. On the development of OpenFOAM solvers based on explicit and implicit high-order Runge–Kutta schemes for incompressible flows with heat transfer.


REFERENCES


Denner:2017:CFB


Ben:2019:LSG


Drees:2015:CCY


Dercks:2017:CML


Doi:2013:UCA


Degrande:2015:AEU


Demchik:2011:PRN


Demeter:2013:SMB


DePalma:2019:PPI

REFERENCES


Deuar:2016:TPL


Deveikis:2012:CPT


Degiacomi:2016:ECP


Delzanno:2011:FDA


Duhr:2011:SMF


Duchemin:2010:SAA


Durand:2016:ECP


Dugan:2013:CGP


Dasgupta:2019:FSO


Dhote:2015:SMA

REFERENCES

Dominguez-Garcia:2018:JIA


Davidson:2011:MTV


Donnel:2019:MSC


Dunster:2017:CEM


deHaan:2011:IIW

REFERENCES


DeRaedt:2019:MPQ


Dieterich:2014:SMP


Djouadi:2019:HTY


Dolgov:2014:CEE

REFERENCES


REFERENCES


G. M. Doctors, M. D. Mazzeo, and P. V. Coveney. A computationally efficient method for simulating fluid flow in


REFERENCES


REFERENCES


Duy:2014:TDD


Deluzet:2017:DAS


Dobrowolski:2016:SEP


Napoli:2017:HPG


Delage:2015:PID


REFERENCES

DeVuyst:2013:GAN

Dlamini:2013:QDC

Dlotko:2013:PIA

Decyk:2014:PCA

Dybiec:2015:ESE
REFERENCES


REFERENCES

[daSilva:2013:PMI]

[Dixit:2011:APD]

[Dhaka:2011:EMD]

[Dunzlaff:2015:SPT]

[Dupuy:2010:FDS]
Deslippe:2012:BMP


Dunsch:2019:RIL


daSilva:2013:SNM


DelBen:2015:ESF


duToit:2018:PPS


Duarte:2010:CII


Duarte:2012:CEM


Duff:2016:MRF


Deinega:2011:LTB

Degroote:2011:FRP

Matthias Degroote, Dimitri Van Neck, and Carlo Barbieri. 
Faddeev Random Phase Approximation for molecules. 
CODEN CPHCBZ. ISSN 0010-4655 (print), 1879-2944 (electronic). 

Dai:2019:GSI

Gyrokinetic simulation of ITG turbulence with toroidal geometry including the magnetic axis by using field-aligned coordinates. 
*Computer Physics Communications*, 242(??):72–82, September 2019. 
CODEN CPHCBZ. ISSN 0010-4655 (print), 1879-2944 (electronic). 

Deng:2013:FNF

Dingwen Deng and Chengjian Zhang. 
A family of new fourth-order solvers for a nonlinear damped wave equation. 
CODEN CPHCBZ. ISSN 0010-4655 (print), 1879-2944 (electronic). 

Dai:2015:ASM

Fu-Zhi Dai and Wen-Zheng Zhang. 
An automatic and simple method for specifying dislocation features in atomistic simulations. 
*Computer Physics Communications*, 188(??):103–109, March 2015. 
CODEN CPHCBZ. ISSN 0010-4655 (print), 1879-2944 (electronic). 

Ebadi:2013:BSC

Hossein Ebadi. 
Bound state calculation of two-component Klein–Gordon equation with damped-relaxation technique. 
CODEN CPHCBZ. ISSN 0010-4655 (print), 1879-2944 (electronic). 
Eder:2014:AMA


Eder:2017:MAA


Eilert:2017:FNM


Edgar:2010:EHT


Eriksson:2016:CFN

[ECSH16] J. Eriksson, S. Conroy, E. Andersson Sundén, and C. Helleisen. Calculating fusion neutron energy spectra from arbi-


Markus Eisenbach, Jeff Larkin, Justin Lutjens, Steven Ren- 
nich, and James H. Rogers. GPU acceleration of the Lo- 
cally Selfconsistent Multiple Scattering code for first prin- 
ciples calculation of the ground state and statistical physics of 
materials. Computer Physics Communications, 211(??):2–7, 
February 2017. CODEN CPHCBZ. ISSN 0010-4655 (print), 
com/science/article/pii/S0010465516301953.

Joshua P. Ellis. Ti\textsc{k}Z-Feynman: Feynman diagrams with 
\textsc{Ti}\textsc{k}Z. Computer Physics Communications, 210(??):103–123, 
January 2017. CODEN CPHCBZ. ISSN 0010-4655 (print), 
com/science/article/pii/S0010465516302521.

D. Emeliyanov. A new algorithm for fitting tracks with 
energy losses due to Bremsstrahlung. Computer Physics 
Communications, 182(7):1491–1501, July 2011. CODEN 
CPHCBZ. ISSN 0010-4655 (print), 1879-2944 (electronic). URL 
http://www.sciencedirect.com/science/article/ 
pii/S0010465511001202.

Isabell Engeln, Margarete Mühlleitner, and Jonas Witt- 
tbrodt. N2HDECAY: Higgs boson decays in the dif- 
ferent phases of the N2HDM. Computer Physics Com- 
munications, 234(??):256–262, January 2019. CODEN 
CPHCBZ. ISSN 0010-4655 (print), 1879-2944 (electronic). 
URL http://www.sciencedirect.com/science/article/ 
pii/S0010465518302777.

Gergely Endrödi. Multidimensional spline integration of 
scattered data. Computer Physics Communications, 182 
(6):1307–1314, June 2011. CODEN CPHCBZ. ISSN 0010- 
sciencedirect.com/science/article/pii/S0010465511000877
REFERENCES


REFERENCES


REFERENCES

Eriksson:2010:THDb


Eriksson:2010:ETH


Erturk:2015:ETO


Engel:2011:TTM


Eberl:2016:GDS

REFERENCES


Eremin:2014:NSD


Eremin:2016:DSM


Exl:2017:GAE


Egami:2011:FPS


Eckert:2016:HAL


**Eaves:2016:CRV**


**Fang:2019:FSD**


**Fawzy:2010:CAF**


**Furuseth:2019:PHP**

REFERENCES


Carlos E. Fiore and Cláudio J. DaSilva. Equivalence between microcanonical ensembles for lattice models. Computer
REFERENCES


Ferrero:2012:SPM


Fambri:2017:STA


Fleischhaker:2011:MSS


Frisch:2011:HPP


Feng:2012:AGM

Feng Feng. $\textbackslash$apart: a generalized Mathematica $\textbackslash$apart function. Computer Physics Communications, 183(10):2158–
REFERENCES


REFERENCES


[FGGM11] Edward Farhi, Jeffrey Goldstone, David Gosset, and Harvey B. Meyer. A quantum Monte Carlo method at fixed en-
REFERENCES


Fillion-Gourdeau:2012:NST


Franco:2014:OET


REFERENCES


REFERENCES


REFERENCES


Fernandes:2010:BCM

Feng:2013:ICI

Fang:2010:ERM

Foerster:2017:CAC

Fan:2018:VCJ
Fiori:2012:NAA

Furuichi:2015:ISM

Favata:2016:ABM

Fang:2010:ERT

Furuichi:2017:ILB
Frances:2010:RID


Frances:2015:MGM


Fonseca:2012:CRG


Fowlie:2018:FCI


Francisco:2014:END


REFERENCES


REFERENCES


REFERENCES

Fan:2016:MPM


Faik:2018:ESP


Fu:2019:LDF


Fu:2019:VHO


Fuhrmann:2015:CNT

Fukushima:2017:NCE


Fan:2014:ELS


Fan:2018:GEL


Fernandes:2011:NRM


Frust:2017:RDP

REFERENCES


REFERENCES


REFERENCES


[Grandgirard:2016:GFG]

[Gaenko:2017:UCL]

[Gagunashvili:2012:CCT]

[Gagunashvili:2012:CCG]


Garnier:2019:DVC


Gramada:2011:CGE


Green:2014:IAP


Guo:2017:GIR


Gomes:2018:ERL

REFERENCES


Gebremariam:2010:SCH


Grossu:2014:HPF


Grossu:2010:CCC


Grossu:2012:CCC


Grossu:2013:CMB

REFERENCES


Grossu:2015:SMP


Grossu:2019:IQC


Gray:2012:MAP


Gabay:2017:OKM

Garnier:2013:EPB


Ge:2014:THF


Gonzalez-Ballestero:2011:NSE


Groen:2016:FFC


Guskova:2016:RPL

Green:2018:KJC


Gontchar:2010:CCD


Gontchar:2013:CCD


Gontchar:2016:DCC

[GC16] I. I. Gontchar and M. V. Chushnyakova. DFMSPH14: a C-code for the double folding interaction potential of


A. A. Gusev, O. Chuluunbaatar, S. I. Vinitsky, and A. G. Abrashkevich. POTHEA: a program for computing eigen-

Gonzalez:2014:FIP

Gebremariam:2010:SIP

Gins:2018:ACD

Geneste:2010:FEF
REFERENCES


REFERENCES


[GHvdL11] Ralf Gamillscheg, Gundolf Haase, and Wolfgang von der Linden. A numerical projection technique for large-


[Gio18] Toni Giorgino. How to differentiate collective variables in free energy codes: Computer-algebra code genera-


Gonze:2016:RDA


Gross:2011:MPR


Gronbech-Jensen:2014:AGJ

Gherardi:2012:HDS


Gawronski:2011:CDB


Germanas:2010:CFP


Garcia:2013:SEP


Gerhard:2013:RHG


Gao:2013:MPC


Guo:2014:CFE


Guan:2014:NAS


Georgoudis:2017:AAG


Ghodrat:2011:MDS

Grisins:2014:MHT


Gonoskov:2016:SSP


Gituliar:2017:FTR


Gupta:2018:ALQ


Garcia:2018:SCM

Gao:2017:PDF


Grise:2011:SRU


Guo:2019:EFD


Gao:2015:TSG


REFERENCES

Gebhardt:2019:BDA

Green:2018:ASP

Grichine:2010:GHE

Grigera:2011:GGL

Guo:2018:NMP
REFERENCES


**Ghosh:2017:SAEb**


**Ghosh:2017:SAEa**


**Golosio:2014:MCS**


**Guckenberger:2016:BAS**

REFERENCES


References

Gil:2017:ECL


Germaneau:2013:IMB


Green:2019:DDM


Gudmundsson:2011:TDM


Galler:2019:APV

Anna Galler, Patrik Thunström, Josef Kaufmann, Matthias Pickem, Jan M. Tomczaka, and Karsten Held. The AbinitioD Γ A Project v1.0: Non-local correlations beyond and


**Gomez:2014:SOT**


**Galindo-Torres:2013:LBM**


**Godfrey:2015:INC**


Tomasz M. Gwizdalla. The hybrid algorithm for the study of geometric configurations of 2D clusters of uniformly charged classical particles. *Computer Physics Communications*, 183(9):1899–1903, September 2012. CODEN


REFERENCES

Hahn:2012:HEP


Hopfer:2013:SGG


Hahn:2016:CC


Hirvijoki:2014:ASK


Hakel:2016:FFE

Hakel:2019:FFE


Hall:2017:SRD


Hamada:2011:GAI


Howard:2016:ENL


Hasegawa:2011:PRG


Halverson:2013:EMM


Hudspith:2015:FAC


Haskey:2014:CPM


Hansel:2015:AGH


Hung:2011:ETI


REFERENCES


References

Halder:2017:JSV

He:2019:FLA

Hynninen:2012:MDI

Hadade:2016:MMM

Hu:2014:MSM


REFERENCES


Honda:2016:DFT


Harvey:2015:PIL


Hischenhuber:2012:MCM


Hoefling:2013:SFS


Hernandez-Garcia:2015:CAS

REFERENCES


Hoschele:2014:MMP


Hynninen:2016:OOP


Hung:2010:IPP


Huang:2014:OTE

REFERENCES


REFERENCES


REFERENCES


Homann:2018:SGC


Hedin:2019:GPF


Hutson:2019:BNF


Hutson:2019:MPN


Hu:2013:PSG

[HLD13] HanPing Hu, LingFeng Liu, and NaiDa Ding. Pseudorandom sequence generator based on the Chen chaotic system.
Hao:2013:NIV


He:2016:OSA


Harlander:2013:SPC


Harlander:2017:SBB


Qing Hou, Min Li, Yulu Zhou, Jiechao Cui, Zhenguo Cui, and Jun Wang. Molecular dynamics simulations with many-body potentials on multiple GPUs-the implementa-


REFERENCES


REFERENCES


Honda:2010:STF


Honda:2018:AGA


Hsu:2011:FMC


Hammer:2014:SGL


Hahn:2017:IIM


Peter Hill, Brendan Shanahan, and Ben Dudson. Dirichlet boundary conditions for arbitrary-shaped boundaries


REFERENCES


REFERENCES


Hollis:2014:TRT


Huang:2017:LLC


Huang:2017:IQV


Haelterman:2015:ACT


Honkonen:2013:PGL

REFERENCES

Hulsmann:2010:ANO

Hawkes:2019:CMM

Hehn:2017:HTS

Huang:2011:NSL

Hutchinson:2012:VGA
Huang:2011:ESC


Hafermann:2013:EIC


Hu:2017:KOS


Huang:2015:IOS

Li Huang, Yilin Wang, Zi Yang Meng, Liang Du, Philipp Werner, and Xi Dai. iQIST: an open source continuous-
REFERENCES

Held:2016:TDG


Holmes:2010:EBA


Huang:2012:DCC


Hou:2013:EGA


REFERENCES

Hoshino:2011:PIS

Hu:2011:CFD

Huang:2019:CCN

Huang:2016:FGI

Ho:2019:MLP
Ilyushin:2011:APF


Ismailov:2018:TDP


Iniguez:2011:MOF


Innocenti:2015:ITS


Moxley:2013:GFD

REFERENCES


Ito:2016:IRE

Ikeno:2018:MLF

Iserles:2019:CSL

Incardona:2019:OSO

Nomura:2015:ELS
REFERENCES


REFERENCES


REFERENCES


Jarema:2016:BSG


Jarema:2017:BSG


Jamali:2015:GIA


Jefferson:2013:AAS


Jefferson:2014:FAS

Jaeken:2016:SCE


Jezequel:2010:NVC


Jiang:2018:ESS


Jia:2013:APW


Julia-Diaz:2012:SEA

REFERENCES


REFERENCES


REFERENCES

[Jiao:2015:CTE]

[Jamshidi:2019:SPF]

[Jiang:2014:NMM]

[Jolliet:2015:NAP]

[Jia:2018:NVF]


REFERENCES


[JKG+18] InSuk Joung, Jong Yun Kim, Steven P. Gross, Keehyoung Joo, and Jooyoung Lee. Conformational Space Annealing explained: a general optimization algorithm, with diverse applications. Computer Physics Communications, 223(??):28–33, February 2018. CODEN CPHCBZ.


REFERENCES


REFERENCES


REFERENCES


[Jakubczyk:2012:CIK]


[JZJ18] Tongsong Jiang, Zhaozhong Zhang, and Ziwu Jiang. Algebraic techniques for eigenvalues and eigenvectors of a split


Kant:2014:FLD


Kaneko:2018:CNF


Kaprzyk:2012:AFI


Kaprzyk:2012:AFS


Kappl:2016:SCS


Khan:2015:STP


**Kawamura:2019:FFS**


**Kabin:2015:MCP**


**Kittelmann:2015:PNS**


**Kahl:2019:APH**


**Kjaergaard:2017:MPL**

[KBB+17] Thomas Kjærgaard, Pablo Baudin, Dmytro Bykov, Janus Juul Erik sen, Patrick Ettenhuber, Kasper Kristensen, Jeff Larkin,


Khankhoje:2014:MRS


Khaziev:2018:HSE


Knuth:2015:AEF


Kim:2011:PPP


Kassar:2018:CCV

[Bruno B. M. Kassar, João N. E. Carneiro, and Angela O. Nieckele. Curvature computation in volume-of-fluid method...
REFERENCES


Kong:2011:IVG


Karimi:2017:PNO


Kuijpers:2014:OLD


Kauzlaric:2014:SSP


Kalantzis:2012:UST

REFERENCES

Kerby:2017:EDN


Kim:2016:CGS


Koehne:2013:PTP


Kachman:2017:NIM


Khayyer:2018:EIS

Korpilo:2016:GFT


Kunze:2010:LTM


Kroger:2010:ASC


Kar:2011:RSP


Kleiber:2012:PMF

Kleiber, R. Kleiber and R. Hatzky. A partly matrix-free solver for the gyrokinetic field equation in three-dimensional geometry.
REFERENCES


[KHKR14] Andreas Krämer, Marco Hülsmann, Thorsten Köddermann, and Dirk Reith. Automated parameterization of intermolec-


REFERENCES

Kirby:2010:CRP


Kamali:2013:IMF


Khoromskaia:2014:MPM


Khoromskaia:2014:GBL


Kafri:2016:BPN


P. Kant, O. M. Kind, T. Kintscher, T. Lohse, T. Martini, S. Mölbitz, P. Rieck, and P. Uwer. HatHor for single top-quark production: Updated predictions and uncertainty estimates for single top-quark production in hadronic collisions. *Computer Physics Communications*, 191(??):74–89,
REFERENCES


[KKS18] Roman Korol, Michael Kilgour, and Dvira Segal. ProbeZT: Simulation of transport coefficients of molecular elec-

**Kanemura:2018:HCP**


**Kleefeld:2011:NLM**


**Kuo:2014:TLO**


**Kim:2017:NCV**


**Kao:2011:DAB**

REFERENCES


REFERENCES


REFERENCES

Kaur:2013:HWA


Kim:2019:SGS


Kachelriess:2019:AIR


Kalogiratou:2014:FOM


Klimenkova:2019:VSL

Kohno:2013:NML

Klein:2017:SMC

Komura:2012:GBS

Komura:2013:MGB


REFERENCES


Kirsanskas:2017:QOS


Kramer:2018:QJJ


Kumar:2013:PGS


Kozlov:2015:CMP


Kniehl:2016:MCL

[KPV16] Bernd A. Kniehl, Andrey F. Pikelner, and Oleg L. Veretin. *mr*: a C++ library for the matching and running of

**Kuipers:2013:IMH**


**Kwon:2017:ITT**


**Kumar:2014:NAM**


**Kylanpaa:2016:EES**


**Krawczyk:2010:ADE**

REFERENCES


REFERENCES


REFERENCES


REFERENCES


REFERENCES


REFERENCES


YoungJin Kim, Min-Gu Yoo, S. H. Kim, and Yong-Su Na. Corrigendum to “Development of vector following mesh gen-

**Kim:2015:DVF**


**Kawamura:2017:QLM**


**Kumar:2015:FPT**


**Keren-Zur:2011:HIE**


Lozano:2017:ECA


Lanzafame:2013:IIS


Locans:2017:RTC


Law:2019:ICD


Lazic:2015:CCT


Jungpyo Lee and Antoine Cerfon. ECOM: a fast and accurate solver for toroidal axisymmetric MHD equilibria. *Computer...


Lu:2013:AAF


Lamotte:2010:CVC


Li:2014:SSB


Lin:2011:HBS

Li:2018:MDL


Lundberg:2010:LDC


Lee:2011:LEE


Lakestani:2010:CFD


Lakestani:2010:NSR


REFERENCES


Lambert:2012:TRT


Li:2013:SDE


Lopez:2019:VAV


Lopez:2018:VIS


REFERENCES


Liu:2015:PTA


Lv:2016:OSM


Liu:2019:ICF


Lee:2011:GWB


Lee:2011:TDS

REFERENCES


REFERENCES

467


REFERENCES


Li:2015:CLW


Lan:2019:TDG


Lee:2017:PFS


Liao:2014:NSF


Luo:2014:FCM

REFERENCES


REFERENCES

Lopez:2015:CSJ

Litsarev:2014:DCC

Lee:2016:IMD

Liu:2018:ASE


Luukko:2016:CIT


Larsen:2018:MMPa


Larsen:2018:MMPb


Li:2011:GTR


Luo:2013:IMM

Lopez:2015:DNV


Lopez:2017:TME


Lujan:2019:LTG


Levchenko:2015:HFL

Londero:2011:VPV


Li:2012:NMS


Lindner:2012:SXR


Luscher:2013:LQO


Leetmaa:2014:KGF

REFERENCES


Leidi:2012:CEP


Lopez:2013:ISP


Lin:2013:TDR


Lourderaj:2014:VNS


Lichtenstein:2017:HPF


[Liu:2012:AEP] Mingzhe Liu, Xianguo Tuo, Zhe Li, Jianbo Yang, and Yang Gao. Asymmetric exclusion process for model-
REFERENCES


REFERENCES


Loppi:2018:HOC


Li:2011:MCS


Li:2012:HDM


Los:2017:IAI


Luo:2016:GAC

Xisheng Luo, Luying Wang, Wei Ran, and Fenghua Qin. GPU accelerated cell-based adaptive mesh refinement on unstructured quadrilateral grid. *Computer Physics Communications*, 207(??):114–122, October 2016. CODEN
REFERENCES


Ling:2010:HTS

Sitao Ling, Minghui Wang, and Musheng Wei. Hermi-
tian tridiagonal solution with the least norm to quater-
nionic least squares problem. *Computer Physics Commu-

Li:2011:TSE

Jiyong Li, Bin Wang, Xiong You, and Xinyuan Wu. Two-
step extended RKN methods for oscillatory systems. *Com-
puter Physics Communications*, 182(12):2486–2507, Decem-
ber 2011. CODEN CPHCBZ. ISSN 0010-4655 (print), 1879-
science/article/pii/S0010465511002451.

Li:2014:LAB

Hongwei Li, Xiaonan Wu, and Jiwei Zhang. Local artifi-
cial boundary conditions for Schrödinger and heat equations
by using high-order azimuth derivatives on circular artificial
boundary. *Computer Physics Communications*, 185(6):1606–
1615, June 2014. CODEN CPHCBZ. ISSN 0010-4655 (print),
com/science/article/pii/S0010465514000794.

Lang:2012:QBS

Feng-Gong Lang and Xiao-Ping Xu. Quintic B-spline collo-
dication method for second order mixed boundary value prob-
com/science/article/pii/S001046551100405X.

Li:2014:SCC

Chao Li and Hailing Xiong. 3D simulation of the Cluster–
Cluster Aggregation model. *Computer Physics Commu-
Li:2018:CTD


Lorin:2016:FGA


Lyakh:2015:ETT


Lee:2019:SNE


Li:2010:CRN

Liu:2017:MSS


Lani:2014:GEF


Loncar:2016:OOM


Li:2017:CNC

[LYZ13] Xiangwen Lu, Jiabin Yuan, and Weiwei Zhang. Work- 
flow of the Grover algorithm simulation incorporating 
CUDA and GPGPU. *Computer Physics Communications*, 
184(9):2035–2041, September 2013. CODEN CPHCBZ. 
ISSN 0010-4655 (print), 1879-2944 (electronic). URL 

evolutionary algorithm for crystal structure prediction. *Com-
puter Physics Communications*, 182(2):372–387, February 
2011. CODEN CPHCBZ. ISSN 0010-4655 (print), 1879-
science/article/pii/S0010465510003140.

An open-source evolutionary algorithm for crystal struc-
ture prediction. *Computer Physics Communications*, 
182(10):2305–2306, October 2011. CODEN CPHCBZ. 
ISSN 0010-4655 (print), 1879-2944 (electronic). URL 

structures: XtalComp, an open-source solution. *Computer 
Physics Communications*, 183(3):690–697, March 2012. CO-
DEN CPHCBZ. ISSN 0010-4655 (print), 1879-2944 (elec-
article/pii/S0010465511003699.

[Li:2017:ESI] Xujing Li and Leonid E. Zakharov. Equilibrium Spline In-
terface (ESI) for magnetic confinement codes. *Computer 
Physics Communications*, 221(??):358–382, December 2017. 
CODEN CPHCBZ. ISSN 0010-4655 (print), 1879-2944 (elec-
article/pii/S0010465517302618.
Liu:2018:AAA


Li:2011:FPC


Levin:2012:FFF


Li:2010:SSW


Mohebbi:2011:ENA

Magoga:2012:NSF


Magniette:2018:SAP


Maitre:2012:EHC


Molero-Armenta:2014:OOI


Mohammed-Azizi:2014:SPC

Marti:2015:CCV


Marucho:2019:JAC


Maurer:2016:TVT


Madhikar:2018:CGA


Mazzeo:2013:FDG

REFERENCES


[MBF+10] Oliver Marquardt, Sixten Boeck, Christoph Freysoldt, Tilmann Hickel, and Jörg Neugebauer. Plane-wave im-

**Michalicek:2013:ELE**


**Moxley:2012:GFD**


**Mickevicius:2011:FPH**


**Motta:2015:ILM**

REFERENCES


Myneni:2017:CEE


Mani:2017:RPR


Miqueles:2014:ART


Mitnik:2011:CMG

<table>
<thead>
<tr>
<th>References</th>
<th>Authors</th>
<th>Title</th>
</tr>
</thead>
</table>


REFERENCES 501


Ma:2016:SPC


Martinec:2018:SPS


Maintz:2011:SPW


Mercado:2012:WAS


Meleshko:2019:CSC

REFERENCES


REFERENCES


**Muller:2013:PLA**


**Moran:2019:FIT**


**Mena:2015:GAS**


**Martins:2010:NSL**

McConnell:2010:DNV


Muller:2010:GTE


Muller:2010:UVM


Makkonen:2013:SDS


Meena:2018:PPP

Deep Raj Meena, Shridhar R. Gadre, and P. Balanarayan. PAREMD: a parallel program for the evaluation of momentum space properties of atoms and molecules. *Computer Physics Communications*, 224(?):299–310, March 2018. CODEN CPHCBZ. ISSN 0010-4655 (print), 1879-2944 (elec-
REFERENCES

Mostaco-Guidolin:2012:SOS


Mickeyvic:2013:RCF


Marojevic:2013:EEG


Marojevic:2016:APF


Masala:2013:IMC


REFERENCES


[MH18] Lijie Mei and Li Huang. Reliability of Lyapunov characteristic exponents computed by the two-particle method.
Mahmoudi:2012:FHA


Ma:2011:MCH


Mick:2013:GAG


Mick:2013:GAG


Maldonis:2017:FHS


REFERENCES


Moddel:2011:AFP


Munoz:2018:NHC


Mierzwiczak:2010:AMF


Morita:2019:CHO


Morozov:2011:MDS

I. V. Morozov, A. M. Kazennov, R. G. Bystryi, G. E. Norman, V. V. Pisarev, and V. V. Stegailov. Molecular dynamics simulations of the relaxation processes in

**Makwana:2017:TWC**


**Manka-Krasoń:2010:CRL**


**Merz:2012:MDG**


**Monovasilis:2010:SPR**


**Matsumoto:2012:ATV**

Masaharu Matsumoto, Yoshihiro Kajimura, Hideyuki Usui, Ikkoh Funaki, and Iku Shinohara. Application of a to-
REFERENCES


Mennemann:2019:OCS


Markosyan:2014:PTF


Mosyagin:2017:ICP


Mosyagin:2019:RCM


Manuali:2010:GGF


A. Mirza, P. Nizenkov, M. Pfeiffer, and S. Fasoulas. Three-dimensional implementation of the Low Diffusion method


Marques:2012:LLE


Mackay:2013:HFI


Mohammadi:2014:ESS


Mao:2011:ERM


Menz:2010:TIT

McClure:2014:NHA


Marchand:2013:LPC


Miqueles:2015:GIX


Mohankumar:2013:SCE


Mawson:2014:MTO


REFERENCES


Mondragon-Shem:2010:ECC


Murano:2014:FCC


Mi:2016:ARS


Matveev:2018:AAM

<table>
<thead>
<tr>
<th>Reference</th>
<th>Title</th>
</tr>
</thead>
</table>


C. M. Maynard and D. N. Walters. Mixed-precision arithmetic in the ENDGame dynamical core of the Unified Model, a numerical weather prediction and climate model code.
REFERENCES


REFERENCES

science/article/pii/S0010465509002069. See erratum [Nat10].


REFERENCES


[NFD+19] Saeid Nezamabadi, Xavier Frank, Jean-Yves Delenne, Julien Averseng, and Farhang Radjai. Parallel implicit contact


<table>
<thead>
<tr>
<th>Reference</th>
<th>Authors</th>
<th>Title</th>
<th>Journal</th>
<th>Volume/Issue/Range</th>
<th>Date</th>
<th>Digital Object Identifier</th>
</tr>
</thead>
</table>
References


REFERENCES


Nogueira:2017:FRCa


Nogueira:2017:FRCb


Nejad:2015:SPV


Novotny:2017:PMG


Nguyen:2019:APM


REFERENCES


Masashi Noda, Shunsuke A. Sato, Yuta Hirokawa, Mitsuharu Uemoto, Takashi Takeuchi, Shunsuke Yamada, Atsushi Yamada, Yasushi Shinohara, Maiku Yamaguchi,

Nguyen:2014:CLM


Nutma:2014:XFT


Nunez-Valdez:2018:ETC


Norris:2013:ALB


Olson:2010:PFL


Ou:2013:EME


Ortwein:2019:PLA


Odrzywolek:2011:GIR


Okuyan:2014:BTP


REFERENCES

OGREN:2011:SSF


[ÖKC11]

OK:2012:MOO


[OKM12]

OGOYSKI:2010:COU


[OKP10]

OGARKO:2012:FMA


[OL12]

OLG*16


[Ono:2015:TAE] Shota Ono, Yoshifumi Noguchi, Ryoji Sahara, Yoshiyuki Kawazoe, and Kaoru Ohno. TOMBO: All-electron mixed-

**Okuyan:2015:TPI**


**Okuyan:2015:BTC**


**Orts:2019:FSE**


**Ohba:2012:LSA**

Ovaysi:2012:MGA


Opletal:2011:HHR


Opletal:2014:HHR


Opletal:2013:HHR


Ossandon:2017:NNA

REFERENCES

Oredsson:2019:THD


Orgogozo:2015:RNV


Oskooi:2010:MFF


Orgogozo:2014:OSM


Osterman:2010:TOT


REFERENCES


REFERENCES


Patel:2017:PXM


Pavlyukh:2013:ERI


Puhr:2016:NMC


Pepe:2015:USF


Perona:2014:TEM


REFERENCES


Peraro:2014:NAI


Parcollet:2015:TTR


Patriarca:2019:HAQ


Peng:2010:AFC


Pfeiffer:2017:APC

REFERENCES


Pinto:2019:GTI


Pela:2017:LMI


Prandini:2019:SCO


Poya:2017:HPD


Paul:2011:SGE


Pittau:2010:TIN

Pitzer:2012:ASC

Pomerantsev:2016:FGB

Pandit:2015:NSS

Plante:2016:CST
Prusty:2012:SBC


Polyakov:2013:LSF


Peralta:2015:GEA


Papior:2017:INE


Petran:2014:SC


REFERENCES


Parand:2013:KMS


Pang:2014:GAO


Pradhan:2011:CWP


Prausa:2017:ETF


Preti:2018:WMP

M. Preti. WiLE: A Mathematica package for weak coupling expansion of Wilson loops in ABJ(M) theory. Computer Physics Communications, 227(??):126–147, June 2018. CODEN CPHCBZ. ISSN 0010-4655 (print), 1879-2944 (ele-
REFERENCES


Pletzer:2011:EMS


Porod:2012:SEI


Panopoulos:2014:NPF


Pandey:2011:AAS


Pandey:2012:ASS

[PSBT12] Ram K. Pandey, Om P. Singh, Vipul K. Baranwal, and Manoj P. Tripathi. An analytic solution for the space–time fractional advection-dispersion equation using the opti-


Pizzi:2014:UVB


Pekkila:2017:MCF


Pemmaraju:2018:VGR


Peng:2014:RCI


Park:2019:PEC

Jinsu Park, Peng Zhang, Hyunsuk Lee, Sooyoung Choi, Jiankai Yu, and Deokjung Lee. Performance evalu-


Qian:2013:VCN


Quackenbush:2013:PLF


Qiu:2010:CSG


Qiu:2014:RCE


Qiang:2010:HOF

REFERENCES


Qi:2018:ADG


Qamar:2011:STC


Qiao:2019:ETI


Qin:2019:QPP


Raffah:2013:ECW

REFERENCES


Ramadan:2010:AFA


Ramadan:2012:UME


Ramadan:2014:USS


Ramos:2019:ADE


Rosiek:2010:SCT


Rangel:2016:WBP


Ren:2016:MBD


Ren:2019:AVW


Rostrup:2010:PHP

Scott Rostrup and Hans De Sterck. Parallel hyperbolic PDE simulation on clusters: Cell versus GPU. *Computer Physics Communications*, 181(12):2164–2179, December 2010. CODEN CPHCBZ. ISSN 0010-4655 (print), 1879-2944 (ele-
REFERENCES


REFERENCES


**Raj:2019:PDU**


**Roitgrund:2016:IML**


**Reiter:2010:OCG**


**Reis:2011:MZD**


**Reis:2012:MOD**

REFERENCES


Rodrigues:2018:SEW


Rincon:2010:IPT


Ruokosenmaki:2017:NPI


Rohrer:2011:CSI


Rouzbahani:2017:TIS

REFERENCES


Ren:2012:HOU

Rourke:2012:NEH

Ryu:2016:TES

Ren:2016:IPS

Jiang:2011:PIC
[rJmYT11] Zhen ran Jiang, Wei ming Yu, and Ran Tao. Predicting important classes of chemokine family based on kernel method.
REFERENCES

Ren:2019:MMT


Reith:2011:MWF


Reuter:2019:CFP


Rutkai:2017:IMS

REFERENCES


REFERENCES


Juraci P. Reis, Artur F. Menezes, Edmilson M. Souza, Alessandro Facure, Jose A. C. C. Medeiros, and Ademir X. Silva. Dose optimization in $^{125}$I permanent prostate seed implants using the Monte Carlo method. 


Rohe:2016:HPF


Romano:2015:AGR


Rosiek:2015:SFV


Rosiek:2016:MMP


Roehm:2015:DDK


**Ryan:2010:NMM**


**Riikila:2015:DEM**


**Roidl:2018:SES**


**Ramis:2016:MIO**

REFERENCES


Reith:2011:MCS


Ramos:2014:TFM


Regnier:2016:FFE


Rubow:2011:FAC


Russell:2015:OTD

Rozanski:2019:ECC


Sundararaman:2014:ECD


Sharma:2015:OHS


Shokri:2015:HOC


Saltelli:2010:VBS

Sjostrand:2015:IP


Staub:2016:HMP


Suleimanov:2013:RBC


Solano-Altamirano:2015:DCO

Sainio:2010:CGA


SaiToh:2013:ZCL


Sala:2012:MPP


Salac:2016:GMP


Sano:2011:FIW


Sangwine:2015:CSP

Stone:2018:AFR


Sarkadi:2017:CME


Sarkadi:2017:FPC


Sokolovski:2011:EMP


Savvidy:2015:MRN

REFERENCES


Sijoy:2015:TTT


Sibaev:2016:PFO


Sijoy:2016:CNC


Samaddar:2017:TPE


Sprengel:2017:CCC

REFERENCES

Samaddar:2019:APA

Schmid:2012:AIP

Stupovski:2011:ACT

Schiller:2014:UOS

Schwenke:2014:CHO
REFERENCES


REFERENCES


[SD10a] Bernie D. Shizgal and Raouf Dridi. Maple code for the calculation of the matrix elements of the Boltzmann col-
REFERENCES


REFERENCES

Sturmberg:2016:EOS


Schunck:2012:SSH


Schouten:2015:AME


Schunck:2017:SSH


[SDL+16

[SDM+12

[SDS15

[SDS+17]


Schimeczek:2014:HOC


Stamatiadis:2010:ATA


Santos-Filho:2011:MCS


Salvat:2019:RFS


Schlipf:2015:OAG


Sanchez-Gil:2017:NNG


Starrett:2019:WRE


Shinaoka:2017:CTH


Salib:2012:CRD


Siro:2012:EDH


Shakirov:2018:CEF


Shizgal:2016:ENQ


Smith:2011:DSI


Soin:2011:ESC


Shtabovenko:2017:FCF

REFERENCES


REFERENCES


Sinha:2012:PWL


Satake:2010:BTD


Sitnik:2014:DFMa


Sitnik:2014:DFMb


Sitnik:2016:NVF

REFERENCES


Szidarovszky:2018:LCP


Szidarovszky:2020:ELC


Sobol:2010:NDB


Seebacher:2012:TUL


Singh:2014:ENT

REFERENCES


Sen:2015:SBS

Samana:2010:QNC

Seth:2016:TCC

Smith:2010:ROB


REFERENCES

[Sudheer:2013:DLB]

[Liu:2010:ACD]

[Sun:2014:CAM]

[Santos:2016:OOI]

[Schmidt:2017:WMP]
Shih:2011:SAM


Stahl:2017:NSR


Shemyakin:2019:THP


Stahl:2017:AAP


Lu:2013:EUL

Shumlak:2011:APC


Solanpaa:2016:BSP


Shi:2019:ETD


Shi:2019:ETP


Scheffel:2018:TSA


REFERENCES


[Si:2016:LSM]

[Silva:2011:STM]

[Sauter:2013:TCC]

[Sen:2014:MCP]

[Schneider:2019:MAM]
L. Schneider and M. Müller. Multi-architecture Monte-Carlo (MC) simulation of soft coarse-grained polymeric materials: SOft coarse grained Monte-Carlo acceleration (SOMA). Computer Physics Communications,


[SMO16a] Vladyslav Shtabovenko, Rolf Mertig, and Frederik Orel- 
Communications*, 207(??):432–444, October 2016. CODEN 
CPHCBZ. ISSN 0010-4655 (print), 1879-2944 (electronic). 
URL http://www.sciencedirect.com/science/article/
pii/S0010465516301709.

[SMO16b] Endre Somogyi, Andrew Abi Mansour, and Peter J. Ortol-
eva. ProtoMD: a prototyping toolkit for multiscale molecular 
dynamics. *Computer Physics Communications*, 202(??):337– 
350, May 2016. CODEN CPHCBZ. ISSN 0010-4655 (print), 
com/science/article/pii/S0010465516300030.

VOLSCAT2.0: the new version of the package for electron 
and positron scattering off molecular targets. *Computer 
CODEN CPHCBZ. ISSN 0010-4655 (print), 1879-2944 (elec-
article/pii/S0010465518303230.

[SMUT19] Noritaka Shimizu, Takahiro Mizusaki, Yutaka Utsuno, and 
Yusuke Tsunoda. Thick-restart block Lanczos method 
for large-scale shell-model calculations. *Computer 
Physics Communications*, 244(??):372–384, November 2019. 
CODEN CPHCBZ. ISSN 0010-4655 (print), 1879-2944 (elec-
article/pii/S0010465519301985.

and Robin boundary conditions for heat conduction mod-
eling using smoothed particle hydrodynamics. *Computer 
Physics Communications*, 198(??):1–11, January 2016. CO-
DEN CPHCBZ. ISSN 0010-4655 (print), 1879-2944 (elec-
article/pii/S0010465515002738.


REFERENCES


Solovyev:2011:RMC


Shimojo:2013:LNQ


Schulz:2011:SDS


Staub:2012:TBI


Sorensen:2019:AAS

REFERENCES

Souvatzis:2014:UVE


St-Onge:2019:ESS


Schreilechner:2016:RSF


Schwendt:2018:TBC


Shen:2018:PPC

REFERENCES


REFERENCES


Suryanarayana:2018:SSQ


Sanchez-Puga:2019:BDP


Singh:2011:AZT


Soulaine:2015:PLA


Su:2010:FPC

[SQL+10] Wei Su, Ping Qian, Ying Liu, Jiang Shen, and Nan-Xian Chen. First principle calculations of yttrium-doped palladium clusters. Computer Physics Communications,


S. Stavroyiannis and T. E. Simos. A nonlinear explicit two-step fourth algebraic order method of order infinity for...

**Shkarofsky:2011:NCC**


**Silin:2011:HFV**


**Smiatek:2011:MSE**


**Schmidt:2012:CCP**


**Sezgin:2013:FBP**


Bogdan Satarić, Vladimir Slavnić, Aleksandar Belić, Antun Balaz, Paulsamy Muruganandam, and Sadhan K. Adhikari. Hybrid OpenMP/MPI programs for solving the time-


REFERENCES


[SSM\textsuperscript{+}17] Marcin Sylwestrzak, Daniel Szlag, Paul J. Marchand, Ashwin S. Kumar, and Theo Lasser. Massively parallel data processing for quantitative total flow imaging with optical


Schmidt:2019:ESA


Staub:2010:SMF


Staub:2011:ACS


Staub:2013:SDG


Staub:2014:STO


Salinas:2018:WBO

[STA18] Álvaro Salinas, Claudio E. Torres, and Orlando Ayala. Well-balanced open boundary condition in a lattice Boltzmann

Staub:2019:XHA


Stein:2017:FPA


Sakurai:2010:ABK


Strater:2015:PDA


Sakamoto:2011:SME

REFERENCES


REFERENCES


REFERENCES

<table>
<thead>
<tr>
<th>Author(s)</th>
<th>Title</th>
<th>Journal</th>
<th>Volume</th>
<th>Issue</th>
<th>Pages</th>
<th>Year</th>
<th>URL</th>
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</thead>
</table>
REFERENCES


Schimeczek:2014:MES


Shao:2014:NSN


Su:2011:FPS


Shao:2015:SOP


Shimobaba:2012:CWO

REFERENCES

Xie:2014:PGD

Xie:2019:BUT

Shao:2018:LSI

Shi:2017:DTP

Stalter:2018:MDS
REFERENCES


Scott:2015:EHS


Szalmas:2013:ADVb


Szalmas:2013:ADVa


Szalmas:2016:FID


Sarti:2013:BTE


[SA:2012:PUP]


[SA:2013:PUI]


[Thierry:2015:IDO]

[TACA15] Bertrand Thierry, Xavier Antoine, Chokri Chniti, and Hasan Alzubaidi. μ-diff: an open-source Matlab toolbox for com-


Tran:2018:CSS


Tracey:2015:FMV


Tuttafesta:2013:CUC


Tapia:2011:PCP


Taleei:2014:TSP


REFERENCES

Tchuen:2014:HNM

Tung:2011:ISM

Tramm:2016:TBP

Tripolt:2019:NAC
Titarenko:2017:HMV


TenBarge:2014:OLA


Teijeiro:2016:EPA


Torrent:2010:ESP


Tian:2011:RHO

Tickner:2010:MCS


Tickner:2014:APM


Tsukahara:2016:ILC


Tordella:2013:LES


Tabakin:2011:QM


REFERENCES


Teodoro:2011:MMS


Toyoda:2010:FSB


Toyoda:2010:LLN


Tapiador:2014:FBH


Tomasik:2016:DHG

REFERENCES


Mitsuyoshi Tomiya, Hiroyoshi Tsuyuki, and Shoichi Sakamoto. Quantum fidelity and dynamical scar states on chaotic billiard system. *Computer Physics Communications*, 182(1):
REFERENCES


[TVGB15] Iurii Timrov, Nathalie Vast, Ralph Gebauer, and Stefano Baroni. turboEELS — a code for the simulation of the electron energy loss and inelastic X-ray scattering spectra using the Liouville–Lanczos approach to time-dependent density-functional perturbation theory. Computer Physics Communications...

Thierry:2016:GOF


Tiana:2015:MIM


Tsai:2011:EML


Tretiakov:2015:QAE


REFERENCES

Ulybyshev:2019:SCS


Umeda:2018:TSB


Umeda:2019:MSB


Umeda:2012:NOC


Urano:2015:DWR


Utyuzhnikov:2014:TDU


Umansky:2012:NAM


Vanni:2015:AMF


Varley:2016:EPP


Vogel:2011:APN

REFERENCES


REFERENCES


Varin:2018:EFS


Voitcu:2012:CSF


Verheyen:2016:RCP


dePut:2019:SAS


Vranic:2015:PMA

REFERENCES

vonHippel:2010:TMA


vanHameren:2011:OEO


vanHameren:2018:KPL


Voglis:2015:PMP


Vitolo:2019:CHO


Vu:2012:FHS

K. T. Vu, G. F. Jefferson, and J. Carminati. Finding higher symmetries of differential equations using the


[VKS16] A. V. Vlasenko, A. Köhl, and D. Stammer. The efficiency of geophysical adjoint codes generated by auto-

[Vanaverbeke:2014:GPM]

[Vlasenko:2016:EGA]

**Vandenhoeck:2019:IHO**


**Varet:2012:EDN**


**Vincenti:2017:EPS**


**Villalobos:2011:SMF**

REFERENCES


Voyiatzis:2013:MPE


Vigano:2012:NCH


Vergara-Perez:2016:MMP


Vazquez-Poletti:2017:SEA


Voglis:2012:MGO


Varier:2017:TNJ

K. Muraleedhara Varier, V. Sankar, and M. P. Gangu- 
dathan. TrackEtching — a Java based code for etched 
track profile calculations in SSNTDs. *Computer Physics 
Communications*, 218(??):43–47, September 2017. CODEN 
CPHCBZ. ISSN 0010-4655 (print), 1879-2944 (electronic). 
URL http://www.sciencedirect.com/science/article/ 
pii/S0010465517301273.

Vela:2018:AAC

Luis Vela Vela, Raul Sanchez, and Joachim Geiger. 
ALARIC: an algorithm for constructing arbitrarily com- 
plex initial density distributions with low particle noise 
for SPH/SPMHD applications. *Computer Physics Com- 
munications*, 224(??):186–197, March 2018. CODEN 
CPHCBZ. ISSN 0010-4655 (print), 1879-2944 (elec- 
article/pii/S0010465517303570.

vanSetten:2018:PTG

M. J. van Setten, M. Giantomassi, E. Bousquet, M. J. Ver- 
The PseudoDojo: Training and grading a 85 element opti- 
mized norm-conserving pseudopotential table. *Computer 
Physics Communications*, 226(??):39–54, May 2018. CO- 
DEN CPHCBZ. ISSN 0010-4655 (print), 1879-2944 (elec- 
article/pii/S0010465518300250.

VanLiedekerke:2013:SMF

P. Van Liedekerke, B. Smeets, T. Odenthal, E. Tijskens, 
and H. Ramon. Solving microscopic flow problems using 
Stokes equations in SPH. *Computer Physics Communi- 
cations*, 184(7):1686–1696, July 2013. CODEN CPHCBZ. 
ISSN 0010-4655 (print), 1879-2944 (electronic). URL 
S0010465513000702.

Vukics:2012:CMA

András Vukics. C++QEDv2: The multi-array concept 
and compile-time algorithms in the definition of com- 
posite quantum systems. *Computer Physics Communi- 
REFERENCES


[Dusan Vudragović, Ivana Vidanović, Antun Balaz, Paulsamy Muruganandam, and Sadhan K. Adhikari. C programs...]

[Vudragovic:2012:CPS]


Wang:2014:YPC


Wu:2011:SMM


Wendt:2011:TLS


Winczewski:2016:HET


Wiesenberger:2019:RAP

REFERENCES


REFERENCES


Walczak:2016:BBA


Wang:2016:SIG


Warren:2016:GOS


Warren:2019:CBG


Wang:2017:HPC

Jue Wang, Fei Gao, Jose Luis Vazquez-Poletti, and Jianjiang Li. High performance computing for advanced modeling and simulation of materials. *Computer Physics Communications*, 211(??):1, February 2017. CODEN CPHCBZ. ISSN 0010-4655 (print), 1879-2944 (electronic). URL
REFERENCES

Huang:2015:MGR


Wagner:2016:CAT


Wallerberger:2019:WLO


Hsu:2011:DCD


Wiebusch:2013:NCV


[Wie13]
Wiebusch:2015:HMP


Wiecha:2018:PPP


Wilson:2015:EIF


Wilson:2019:GFD


Wallerberger:2011:FCC


REFERENCES


Wei:2013:NVB


Wiklund:2011:BCC


Wang:2012:CMC


Wu:2017:HOS


Wang:2013:SPM


[Wei:2013:NVB]

[Wiklund:2011:BCC]

[Wang:2012:CMC]

[Wu:2017:HOS]

[WM13]


REFERENCES


Walsh:2015:OEG

Winkler:2019:GSM

Winkler:2018:NLS

Wosniack:2015:PAR

Wang:2011:EKS
Kangkang Wang and Arthur R. Smith. Efficient kinematical simulation of reflection high-energy electron diffraction


REFERENCES


REFERENCES


REFERENCES


REFERENCES


REFERENCES


Wu:2018:WOS

Xiong:2014:BOS

Xue:2013:CGF

Xu:2016:IWC

Xu:2019:MCO


REFERENCES

Xiong:2014:DSL


Xu:2015:NMM


Xiong:2013:GAA


Xu:2015:SHA


Xiao:2016:MPC

Shuyuan Xiao, Xueli Mu, Tingting Liu, and Hong Chen. A Mathematica program for the calculation of five-body


Xiao:2013:SAA


Xie:2012:FOC


Xu:2013:NID


Xu:2019:ELS


Xu:2012:ADI

Xiong:2012:PSH


Yamaguchi:2016:PCP


Yang:2009:FAM


Yang:2011:EIB


Yu:2013:DST

REFERENCES


REFERENCES

Youssef:2014:CNK


Youssef:2014:NFP


Yu:2017:CTA


Yuan:2012:DAV


Yang:2015:OPS


REFERENCES


REFERENCES

Yin:2012:MPW


Yang:2010:PFA


Yoo:2017:DIP


Yu:2019:MBN


Yan:2013:GPU

Yang:2017:HPA


Yurchenko:2016:DGP


Yen:2017:SVS


Yoshimi:2019:SSM

REFERENCES


[YSLY19] Haijian Yang, Shuyu Sun, Yiteng Li, and Chao Yang. Parallel reservoir simulators for fully implicit complementarity formulation of multicomponent compressible flows. *Computer Physics Communications*, 244(?):2–12, Novem-


REFERENCES


Yu:2011:TDD


Yang:2009:ERT


Yu:2015:ENC


Yu:2015:MNC


Yan:2016:NEP

Jinliang Yan and Zhiyue Zhang. New energy-preserving schemes using Hamiltonian Boundary Value and Fourier
pseudospectral methods for the numerical solution of the
“good” Boussinesq equation. Computer Physics Com-
munications, 201(??):33–42, April 2016. CODEN CPHCBZ.
ISSN 0010-4655 (print), 1879-2944 (electronic). URL
S0010465515004518.

Yang:2019:ELS

[XZ19] Xiaofeng Yang and Jia Zhao. Efficient linear schemes for the
nonlocal Cahn–Hilliard equation of phase field models. Com-
puter Physics Communications, 235(??):234–245, February
2019. CODEN CPHCBZ. ISSN 0010-4655 (print), 1879-
science/article/pii/S0010465518303084.

Yang:2018:ARP

[YZCS18] Yu-Liang Yan, Dai-Mei Zhou, Xu Cai, and Ben-Hao
Sa. Announcement for the replacement of the PA-
CIAE 2.1 and PACIAE 2.2 series. Computer Physics
Communications, 224(??):417–418, March 2018. CO-
DEN CPHCBZ. ISSN 0010-4655 (print), 1879-2944 (elec-
article/pii/S0010465517303466.

Yang:2014:SNT

[YZWR14] Hongli Yang, Xianyang Zeng, Xinyuan Wu, and Zhengliang
Ru. A simplified Nyström-tree theory for extended Runge–
Kutta–Nyström integrators solving multi-frequency oscil-
latory systems. Computer Physics Communications, 185
ISSN 0010-4655 (print), 1879-2944 (electronic). URL
S0010465514002434.

Yu:2010:CSC

[YZY10] R. Yu, J. Zhu, and H. Q. Ye. Calculations of single-
crystal elastic constants made simple. Computer Physics
CPHCBZ. ISSN 0010-4655 (print), 1879-2944 (electronic).
URL http://www.sciencedirect.com/science/article/
pii/S0010465509003932.


Zeng:2016:MPP


Zakynthinaki:2011:SOD


Zolfaghari:2019:HOA


Zhen:2012:DFH

REFERENCES

Zhao:2019:IAC


Zhu:2017:DOS


Zanotti:2015:HOS


Zinchenko:2013:NGF


Zhang:2017:UEB

Zhang:2010:NSN


Zacate:2011:SHI


Zacate:2016:SHI


Zerbetto:2015:MIT


Zatsarinny:2016:DBS

Zilibotti:2011:ICA


Zhai:2014:NST


Zhu:2018:GGT


Zhang:2019:AAD


Zhao:2016:PTL

Zapata-Herrera:2018:ICP


Zheleznyakova:2015:MDB


Zhong:2011:PBN


Zhang:2010:RFY


Zhong:2013:SNS


REFERENCES


Xiaoming Zhang, Xin Liu, Xin Li, and Dongyu Pan. MMKG: an approach to generate metallic materials knowledge graph
REFERENCES


Zhao:2012:MMC


Zlokazov:2013:VGD


Zlokazov:2014:CIO


Zhang:2019:PAP


Zheng:2012:MPC

[ZMCT12] Jingjing Zheng, Steven L. Mielke, Kenneth L. Clarkson, and Donald G. Truhlar. MSTor: a program for cal-

Zierenberg:2013:SPP


Zheng:2013:MVN


Zwart:2013:MPS


Zhou:2015:EHO

REFERENCES


REFERENCES

Zheng:2016:EOF


Zhang:2012:SSS


Zheleznyakova:2013:MDB


Zhu:2011:MSW


Zhang:2017:UVM

Zhang:2017:NIL


Zhong:2013:MCD


Zhong:2014:CSC


Zlokazov:2013:VPA

REFERENCES


Zhang:2019:DBM


Zhang:2019:ESO


Zhang:2019:NAN


Yu:2018:EUS


Zhou:2015:UIP

[ZYL+15] Dai-Mei Zhou, Yu-Liang Yan, Xing-Long Li, Xiao-Mei Li, Bao-Guo Dong, Xu Cai, and Ben-Hao Sa. An upgraded is-

**Zheng:2019:GDO**


**Zhang:2015:DFD**


**Zhang:2015:SSL**


**Zhang:2017:AAE**

REFERENCES


