Title word cross-reference

(1 + 1) [SP18a]. (2 + 1)D [HP14]. (MC)3 [KSW15]. 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, AGMS15, BAR12b, CP15a, CPCDdM18, CdLOL19, DGG13, FLZ+18,
FRFH10, GS15, Gai17, GMF+17, Gnu19, 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, WNYP17, ZXL16, ZZD+16, ZSW+17a, ZFR18]. 3 + 1
[LM16]. 125f [RMS+12]. 2
[BG13b, BG14a, BLG14, Bon15, Bon16, GBD10, HFSK12, RPB+15, 3
[CDT10]. 3Σ [Faw10]. (R) [LNSD15]. Tσ [RJKC16]. 3σ [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]. aMC@NLO [ADF+15], pf Fp, F1, F2, F3, F4
[HFSK12]. α3 [GGGH14]. δApart [Fen12a], Be [CWW15, YWW13], Be
[WW12]. BR(β^3_{p, d} → ℓℓ) [DNPS13]. C [Nik12b], C3v [Nik12b]. N = 4 [SD15]
O(α^2) [HP17], COCOS [SM13]. D [CZ17, Kap12b, KT17]. D = 4 [Fis12]
Δ(S^2) [MC17]. df [DF14], e^+e^− [YW13]. e^+e^− → e^+e^− π^+π^− [CI11]
GGA [WH11]. H [HWM+15]. j [Wei11a], jj [Erm18], k
[AWK+16, Ell17b, MDGC+12, OBH10]. kT [vH18]. k · p [Bot12, MBF+10]. L
[SS13b]. Lα [TK14b]. A [WL11a]. λ^4 [Chr18]. LDA + U [HWW12]. O(N)
[PSP16]. μ [TACA15]. N [BBL+13, CDS13a, MAM13, MBFD12, PII11
SGNL1, WSH+12, dHV12, GJ14, RF10]. N = 8 [Fis12]. N_f = 2 + 1 + 1
P3^JM [KK17]. p^m_{1/2+ir}(x) [GST12]. φ^4 [KVW11]. π [KS12]. q
[FDWC12, KO13]. q = 3 [dSLF13]. Q^2 [HK12]. R
[AB10, AK12, Bot12, Des16, NPM16]. R_2 [D15]. S
[ACDm19, DmMN16, LB10a, LB11, LB12, LB13, SAS11]. S^4 [LF12]
SO(2N) [CECG16]. SO(8) [Fis12]. * [Tos10]. SU(2) [Alv12], SU(3) [BW12a]
SU(N_c) [CBB13a]. T [HCRD14, TU14]. T_1 − T_2 [GWF+16], T_{3} [GCF+17], T_{4}
[CM+11]. T_d [Nik12b]. τ [CPWZ18]. Θ [B11], U(1) [BB13a]. V [ABB+16
W] [QGLP13, Veb12], ðbb [CWW10], ðbb [CWW10], ðcc [CWW10], XY
[KO14b]. Z [GLPQ11]. Z_2 [FWZ+12].

-body [CDS13a, MAM13, MBFD12, PIH11, WSH+12]. -conjugated [KS12].
coupled [QSC14]. -Coupling-based [Erm18]. -D
[FK12, Gio14a, GX15, LHJZ10, LHC+13, RKL14]. -dependent [vH18]
diff [TACA15]. -dim [GMF+17]. -dimensional [Kap12b, dHV12]
-electron [PM16]. -function [ACDm19, DmMN16]. -gauged [Fis12]
-helices [HFSK12]. -Inclusive [DLM18]. -matrix
[DEMM19]. -parity [AB10, AK12]. -point [MDGC+12]. -polymers
[B11]. -product [Tos10]. -qubit [RF10]. -ray
[BH16, CCM12, HCM19, LL15, MM11]. -Reverse [SGNL1]. -scattering

/Python [SV14].


2 [AMR+18, CKFB12, DLU18, DDK+17, DES+11, Fen16, FP14, HD17, HM12c, JNN13, LS17b, dR11, dR14, dR17, PR12, RSBB14, TBB+14, ZE16, Cro16]. 2.0 [AFIS12, ACD+14b, ABH+18, BCH13, BHS15, DDKM15, GLPQ11, GBR+14, HEPW13, HHS+10, Liu15a, LRR+15, LR16, MSH14, Pat17, PBL+18, RVDS18, SZY+12, SZY+13, Sha16]. 2.0-Hybrid [GBR+14]. 2.0.0 [BBH+11a]. 2.0.2 [VRV18]. 2.1 [BH13, CNMC10a, PSMS15, QGLP13, SZY+13, YZCS18]. 2.2 [YZCS18, ZYL+15]. 2.8 [OK12]. 2.9 [OK18]. 2014 [MAM14]. 213 [AZ17a]. 220 [Maz19, MLK+19]. 230 [Wei11a]. 2d [WWVB11]. 2d-Ising [WWVB11]. 2F [ML17]. 2HDMC [ERS10c, ERS10a, ERS10b]. 2nd [FMRP16]. 2ODEs [ADdM14].


4 [EJG+19, Gri10, Sta14]. 4.0 [KUVV13, OO15b]. 4.1 [KRW13]. 4.5 [CBYG18]. 4OEC [SK15].

5 [CFS13].

6 [Nik12b]. 6.4 [KRW13]. 6.5 [KRW13]. 64-bit [TC11a].

70th [Pat12]. 77 [GH18].

8.2 [SAC+15].

9 [Nik12b]. 9.0 [SMO16a]. 90 [GST12, KS12, SSG+10, SSG+18, SS10a]. 95 [vH10].
= [LQZ+13].

Adiabatic

Adiabatic-rolling-windows [NDSH18].

adjacent [NDSH18].

adjacent-rolling-windows [NDSH18].

adjoined [GCVA14b].

adjoint [GHR16, VKS16].

admission [VPVMH17].

ADS [LWP17].

adsorbed [SSH16].

Adsorption [MJB11, VB11, EY11].

advanced [LBR18, SLR11, Ano11a, BKM11, CXH15, PVH17, Tan19, WGVPL17].

Advances [SMC17].

Adhesions [RFSF18].

ADVANTG [BL18b].

advection [CYN19, JL10, MMA15, PSB11, PSBT12, WFV14, dTOV18].

advection-diffusion [WFV14, dTOV18].

advection-dispersion [JL10, PSB11, PSBT12].

AELAS [ZZ17a].

aerodynamic [ZS13].

aerosol [SSP16].

AESS [JP11].

affine [Naz12].

Affine.m [Naz12].

AFiD [ZPS18].

AFiD-GPU [ZPS18].

Afivo [TE18].

AFMPB [LCHM10, LCHM13, ZPH15].

Africa [Che11].

Afterlive [KSS18].

aggregate [MS11].

aggregates [HCRD14, RU13, Van15].

aggregation [MST18, WXW14, XLCW14, BR11, KdMvO14, LX14].

aggregation-fragmentation [MST18].

aerodynamic [ZS13].

aerosol [SSP16].

AESS [JP11].

affine [Naz12].

Affine.m [Naz12].

AFiD [ZPS18].

AFiD-GPU [ZPS18].

Afivo [TE18].

AFMPB [LCHM10, LCHM13, ZPH15].

Africa [Che11].

Afterlive [KSS18].

aggregate [MS11].

aggregates [HCRD14, RU13, Van15].

aggregation [Bis15, MST18, WXW14, XLCW14, BR11, KdMvO14, LX14].

aggregation-fragmentation [MST18].

aided [FLW17, Zhe15].

Air [MSML10, BTC17, BG14b, KRB15].

Airy [JL12].

Aitken [HV15].

Al [TMA15].

alanine [PSMS14, PSMS15].

ALARIC [VSG18].

ALCBEAM [BRL12].

Alfvén [BF10, HSK12, TJH17].

AlGaN [YSN14].

AlGaX [AM14].

alanine [PSMS14, PSMS15].

ALARIC [VSG18].

ALCBEAM [BRL12].

Alfvén [BF10, HSK12, TJH17].

AlGaN [YSN14].

AlGaX [AM14].

algorithm [MGS13, MEM11, MC10, MTO15, NBN14, Nem16, OL12, OOK12, OCM19, PH13, PSB11, PDRG10, PP13, PYW14, PR10, PG17, QwWL15, Ray10, RU13, Rom15, RW11, SG11a, SG11b, SCB17a, SCB19, SG15, SWL15, SPS10, Sin12b, SKK11, SQA15, SOJ14, Ste17, TTT16, TIM16, UW12, Urb18, US16, VSG18, VvAV11b, VLL17, VGM15, WP11, WRFS15, WWHW14, Wei12, WRV15, XWhZ13, YZ17, YvOSM15, YLYL17, ZKG18, ZZHG18, ZCC19, Zhe15, ZMJ13, Zou18, vRWS14, Cho11, KS16a, SK11].

Algorithm
[HB12, Mey18, GHR+16]. Algorithms

analyzing [BPML12, SAHP15, WJCZ18]. and/or [XHLM12]. Anderson [BHT19, FFT+14, MST+18, SJ17, SPP19]. angle [HJ14, SLLP17]. angular [LN16, PR12, Pos18, We99, WT12]. *angustifolia* [VLM11]. anharmonic [Liu15a, LLZ+17]. *anharmonicity* [FCCTFR18, ZMCT12, ZMPT13]. anisotropic [HWS16, JG16, KYSV+15, LBB+16, MLW+10, McM17, MLS10, MN18, NO14, Ots11, SSB+16, SKML11, Tau10, VVB+12, YSVM+16]. anisotropically [CAN11]. *anisotropy* [BDK11, KGNS10, MS11, NO14]. annealing [BSM13, BWB+17, CM10a, CD12, IZRT15, LM12, ON11, Yam16, JKG+18]. annihilation [BUJ15, GGGH14, Gre18, HLM13, Kol15]. *annotate* [BVC13]. Announcement [YZCS18, AC18, SSG+18, WRMR19]. anomalous [CPWZ18, LRK13, PPV+11]. ANOVA [CC16]. *anQCD* [AC15, AC16, AC18]. Ansys [LNSD15]. antenna [THDH14]. ANTICOOL [Gre18]. antiferromagnetism [BG11]. antiflux [HD17]. antipeakon [HDZ14]. antivortex [BUJ15]. *any* [Fer15]. APart [Fen16, Fen12a]. APCAD [SLLP17]. application [HKF+12]. *APFEL* [BCHR14]. *APFELgrid* [BCH17]. API [NMCR15, Zag14]. *APINetworks* [MCNRC16, NMCR15]. *appearing* [LM16]. Application [BHH+10, BBH+15, CZD15, CGM17, CSSB15, DG10a, Evs14, GZ14, GHJF14, Hon18, HW12, IUM13, KPA13, Kom15a, Kra10, KOK17, Lan13, LHJZ10, MKU+12, MS14, MK10, PGO17, QA13b, STK10, SGM11a, SGM11b, SCB+19, SCG11, TKS10, WWR+16, YK10, AAA+16, AS16, APS+16, BJBC+14, BALV16, BMW14, BMNS14, Bru13, BGDM+17, CZ17, CGSB18, CTL15, CBYG18, CCN17, Dua12, FBHB17, FK15, Fer15, GKB+12, HCRD14, HTJ+16, HBP14, HJL+15, KPPC13, LOK+16, LWJY18, NDH18, OILK17, PEM19, PS11, PB16, RWKS15, SV14, Sva12, TFBW14, TC12, WZS+11, WX14, vWS14, HD17, MFM15]. application-driven [BJB+14]. *application-programming* [SV14]. Applications [CM10a, HH11a, sL10, RBB15, VDF15, Asc10, BDPM15, BKA+14, CMSV14, CCY18, Dim14, DBK+14, FUSH14, FOB+15, GMH11, GCHL15, HM18, JTW+17, JKG+18, KV10a, KMJS16, LM12, MCAF14, MFC+13, NPM16, Pan15, PBL+18, Ram10, RDC+18, Sai13, SHW18, SSKS13, TK14a, Veb12, VSG18, WJCZ18, ZS13, MD11b]. applied [AHK+12, ASS13, BUJ15, BARR12b, DKG16, FBN+13, GBSY18, HJL+14, KBB+17, KL11, LAG+17, MCP+11, NBC18, SD14, TH17, VFIK14, WSTP15, Yam16]. Applying [HKZN17, KSH11, BS14a]. approach [ASS18, AV13, AGVP10, AKKK16, Add14, Aza13, BD12, BOGL17, BSk+18, BTC+17, Bot12, CSC11, CNM10b, Cho11, CKCS13, Dan12, DF11a, DCU+19, EKO16, ERP+12, FM12, FLW17, GLAC13, GMC18, Gen10, GS14, GLX+14, GCVA14a, HO13, HFSK12, HCC14, Ixa16, Jiw12, JHL+15, JSL16, KK16a, KY14, Kan14, KLKR11, KP16, KKL+18, KV10a, Kra18b, KSY13, Lan13, LHJ+15, MGB11, MLR10, Ma19, MBS+10, MC10, MLK+17, MLK+19, MCP10, MCNRC16, NS10, ON14, ONS+15, ORCR17, OK14, PC11, PLD15, QJF16, RS12, RM10a, RHC15, RJLL16, RCH16, SGAA18, SLY18, Sch14a, SK11, SCM+16, SMC+17, SSBS15,
[BCMS10, BB12, CHH+11, KHBS19, LHH+12a, MFH+13, RDN+17, WW15].

atmospheric-pressure [CHH+12, LHH+12a]. Atom

[Jav17, BH17, CYD11, DFM+15, Duf16, FZY17, KCA+15, LRW+15, LH11, RGKR17, SGSG19, TT11, XLX+15].

atom-centered [KCA+15, LRW+15].

Atomic [Pit12, Ruf13, AAT17, BMF+19, CPV13, CJJ+17, CKS10, Col14, Cor14, DBJ11, EPP12, Erm18, Ert15, Fri12, Gjo14a, Gre18, Hei12, Hin11, Hir15, JWL13, JTH14, JGL+13, KRL+17, Kra17, Kra18a, LB10a, NPVR14, OT11, PM16, PVK+18, PLD15, SEW12, SEW14, WR16, YZZ+17, ZKW+15].

atomic [Jav17, BH17, CYD11, DFM+15, Duf16, FZY17, KCA+15, LRW+15, LH11, RGKR17, SGSG19, TT11, XLX+15].

atom-centered [KCA+15, LRW+15].

Atomic [Pit12, Ruf13, AAT17, BMF+19, CPV13, CJJ+17, CKS10, Col14, Cor14, DBJ11, EPP12, Erm18, Ert15, Fri12, Gjo14a, Gre18, Hei12, Hin11, Hir15, JWL13, JTH14, JGL+13, KRL+17, Kra17, Kra18a, LB10a, NPVR14, OT11, PM16, PVK+18, PLD15, SEW12, SEW14, WR16, YZZ+17, ZKW+15].

atomic-molecular [JWL13].

atomistic [AZ17a, AZ17b, BSC+13, CHDCJA17, CL13, DZ15, EBCB+14, EVB14, EBCBG17, GC12, HHP16, KK13, KP16, LFKD18, LZ18, RK11, RPL+14, THDS16, Voy13, WBY11].

atomic-continuum [CL13, GC12, KK13].

atoms [AKV18, BH14a, BH14b, BRH+16, GJ18a, Kob13, Lit13, MCA17, MGB18, SLK19, SPAW17, WL11b, ZZ15].

Atomsk [Hir15].

ATOR [CKFB12].

ATSP2K [BSGG10].

ATSP2K-package [BSGG10].

attached [SCNJ18].

attempt [GM18].

ATUS [MGL16].

Augmented [RCGT16, AM14b, CKT17, CSPAD10, DKSG16, DA16, JGAL+13, KAW+10, PBMA12, THJ+10, YLO13, JTH14].

Augmented-Wave [RCGT16, JTH14].

auto_deriv [SF10].

autocorrelations [CDS+13b].

AutoDipole [HM10].

automata [FBG10, PC11].

Automated [AC13, BS WC14, HBP+15, HMU10, JC13, JC14, KHKR14, KH10, Per14, SPMM11, YFAT17, HR11, HKVR10, UW12, ZSW+17a].

Automatic [CF16, DAW+19, Deg15, GAGW16, LV13, LHWL16, MV11, MO14, RC11, Sta11, ZZ17a, dALM+12, CL15a, CD15, Cha16, DZ15, Gjo18, Kol14, Kol15, LLQX19, Liu15b, OK10, Ros16, Sem16, Sha13b, SF10, VKS16, Wei15, XWhZ13, YB13, ZPH+15, Zio13, ZUT13, vH10].

automation [GBS+16a, GHvSF14].

automatized [Str15].

Automatizing [TdAdSS11].

autostructure [Bad11].

auxiliary [GA15, JBKM15].

auxiliary-field [GA15].

available [Cip13].

avert [LB11b, LLQX19].

average [SGSG19].

averaged [KQYH17].

averages [LP15, Wan16].

averaging [MMO+17, WHB16].

avoiding [SBB13].

AVX [GBS16b, AWESoMe [MSHLS15, MSHL17]].

axes [BDK11, CNMC10a, CNMC10b].

axial [RS12, Sza13b, Sza13a].

axial-symmetric [Sza13b, Sza13a].

Axially [PLS+17, SSK+13, MCP10].

axially-symmetric [MCP10].

axis [CLW11, JTP15, SMdONF14].

axisymmetric [CLW11].

azimuth [LWZ14].

Azurite [GLZ17].

balls [BH110, BB115]. bamboo [VLM11]. band [CGB14, GBP13, HC16, LOK16, LHL14, MD10a, MCV18, QDZ13, RJ12, SW13a, SCG11, Zlo13]. band-gap [MD10a, SW13a]. ballistic [KLKR11].


BASDet [WG16a]. based [AGB15, BLPP13, BD12, BCJW13, BDKS10, BH17, BALV16, BLS17, BK12, BRL12, BPMM14, BHT19, BDBV12, BAR12b, BMW14, Boe14, BO12, BPS16, BCG15, BC11, BS12, BKK13, BK15, BK16b, CM10b, CCL14, Cap13, CMVRB14, CCS16, CGSB18, CMJ11, CDL12, CKhN11, CAGL13, CDR15, DBMR18, DIP11, DSHS17, DG10b, DM17, DDH17, DRR15, DBL16, DSP10, ELD14, EBDM17, Ern18, ESM17, FRG12, FGC11, FDWC12, FWS17, FZY17, FHA17, Fu19, GLZ17, GJ18a, GLX14, GJ18b, GNT17, HLL13, HFOF15, HPK15, HWT10, HS16, HLD13, HKVR10, HM17, IH11, IKS19, ICPD16, JPCG15, JEC12, rJmYT11, JGAL13, JTP15, KK13, KCN18, KK14b, KK14a, KHZ18, KO14a, KSH14, KM17, KO12, KO13, Kom15a, Kom15b, KLV15, KPST15, Khe18b, KMA12, LCC13, LJE11, LFG14].

based [LN16, LYX17, LO14, Liu13, LH18, LY16, LWRQ16, LNP17, MGL16, MB12, MKR12, MW14, MNW17, NPAD11, ND18, NA16, ON14, OLG16, Oul13, OT11, OAKS11, OY13, PP13, PFFK19, PG17, PKRS16, RCGT16, RC13, RC16, RB18, RH17, SVGS18, SAA10, SC14, Sh18, Sh13a, SCRS17, SSX14, Sit18, SM14, SH11, SK10, SGSG19, TGH16, TMD11, TB14, TDL14, U12, V14, VSG17, VDJ11, V14, WP10a, WLS13, WH19, WS14, WBS18, Wit14, XLL15, ZAG15, ZAFFAM16, ZLLP17, ZSW17, ZHS16, ZS13, Zhe15, Zlo13, Cho11].

Basic [GFB10]. Basics [CB15a, CB17]. basis [Cor14, DM17, FM12, GWY10, HJ15, JDG12, KAK12, LRW15, MCWJ15, Mey18, MBFB13, MK10, MCR11, MAM14, ONS15, PZY16, PKV18, PSL17, Pit12, PKV14a, PVK14b, Pre17, RCGT16, Ray10, RHC15, RCH16, RLM13, SDM12, SD10b, SSK13, ZDHW10, ZDWM17].

basis-set [MBFB13]. bath [Fri10]. baths [DS13b]. bathymetry [STA18].

Bayesian [AMR15, BPS16, CRB17, KZ14, WG16a, ZHL11]. BBN [Ar12]. BCC [HH17]. BCS [RHBH15a, RHBH15b]. BCVEGPY [WW12]. BCVEGPY2.2 [CWW15]. Be [MSN11]. beam [BRL12, BKN17, KPA19, KK17, OKP10, PR14, PBL18, QL10, TSK16, ZPvR16].

Ano17c, Ano17d, Ano17e, Ano17f, Ano17g, Ano17h, Ano17i, Ano17j, Ano17k].

Breaking [GTPWL12, EW14b, LRC⁺11]. Breit [Bad11]. BREMS [Pos18].
bremstrahlung [Pos18, Eme11]. Brenner [FMRP16]. bridges [BALV16].
Bridging [RK11, RV10]. brief [Bre10]. Brillouin [GJ18b, Kap12a, WQ18].
Brillouin-zone [GJ18b]. brings [CDSG11]. broad [BNV18, Ber14].
Browndye [HM10]. Brownian [BALV16, BMG⁺15, CHNS18, CSSB15, HM10, SKM15, TSTT13].
bubbles [SPS18]. builders [Sta14]. Building [BCJ⁺11, MW14, TOB⁺14].
bulk [KSL⁺11]. bundled [CSL⁺13]. Burgers’ [BK16a, Jiw12, Jiw15a, KP14].
Buttiker’s [KKS18].
Caveats [CH11b, SYE+18]. cavities
[AG14, BBH+10, BBH+15, CBB14, CdFDS16, VBMP15]. cavity [LLSK17].
CBFM [GM18]. CCA [FLZ+18, ZXL16, ZZD+16]. CCD [SL14].
CCOMP [Zou18]. Cd [DSM+11]. CE
[NAQ16, QYM11, QA13a, SP18b, WZS+11, CHW+15]. CE/SE
[NAQ16, QYM11, QA13a, SP18b, WZS+11]. Celeris [TL17]. Celestial
[LSJ13]. Cell
[BOP17, DS11a, HZW+16, AM14a, BPB+17, BCP+16, CC14, CC15,
DBP+18, DG16, JvOK17, KK+15, HH+11, LJE11, LYJY10, LWRQ16,
MKL17, MKU+12, MEM+11, MTO15, NCB18, OBPL19, PG17, QDZ+13,
QL10, RKL14, SSS+11, SC15, SC16b, SKK17, Sok13, VS19, VFMFS16,
WWC+16, WN10, WG11, ZLFM11, CDBM16, CHZ18, DS14, IBP+15, KC18,
LKA+16, PMMF15, RD10, SGB16, VLM11, VLL+17].

Chambers [DAW+19]. Chandrasekhar
[Jab12, Jab13, Jab15, Jab19, MR13]. change [HYM11]. changes
[BL17, LSD18, ZBM11]. Channel
[KSW15, CCL18, Des16, GCVA14a, LLQX19, ZLFM11].

Charge-conserving [CC14, CC15, MTO15, Sok13]. Charge
[CC14, CC15, MTO15, Sok13]. Charge-sign [Kap16].

charge-conserving [CC14, CC15, MTO15, Sok13]. Charge-sign [Kap16].

charge/current [VLL+17]. charged
[BBH+11a, BG13b, BG14a, BLG14, Bon15, Bon16, BAK+17, CLC14, Gwi12,
KB15a, KRK16, KFS+13, MF17, NJ18, PCGM14, SKK11, Ume18]. **charges** [SGDS16]. **CHARM** [PLRT14]. **Chebyshev** [DT11a, LD10b, SW14c, Wan10a]. **check** [HWW12]. **checkerboard** [BW12a]. **checking** [ÇÖSU11, Yan16]. **CheckMATE** [DDK+17, DDK+15, KSTR15]. **chemical** [BBF+10, BO12, BSWC14, DBDP12, GAGW16, LCC13, LSK+14, LL12, MLGVE14, MEG12, NCS17, dRJL14, PBD+15, Pla16, PB16, RH11, SAN18, SAG13, TM14, TPC16]. **chemically** [MTE17]. **chemistries** [YFAT17]. **chemistry** [CHH+11, IIO16, KEH12, Sou14, WPAV14]. **chemokine** [rJmYT11]. **CheMPS2** [WPAV14, WPD+15]. **Chen** [HLD13, ÖY13]. **Cherenkov** [GV15]. **chi** [GST15]. **chi-square** [GST15]. **CHICOM** [Gag12a]. **CHIEF** [MJKB18]. **chiral** [GBD10]. **CHIWEI** [Gag12b, GH18]. **choice** [DDM14]. **Cholesky** [LHJZ10]. **choosing** [GLR17]. **Christoffel** [JC16]. **CI** [DKG+14, KPST15]. **CIF2Cell** [Bjö11]. **CIJET** [Gao13a]. **circuit** [LW11, LW13]. **circular** [DA16, KGG+16, LWZ14, OILK17]. **citation** [wHwH11]. **CL** [BHW+12, BBH+15]. **clarifying** [vMB14]. **class** [BPC12, BPC13, GCHL15, Kra17, Kra18a, LLP15, MP11, MST+18, MNOØ11, SS13b, SCM14]. **classes** [rJmYT11]. **Classical** [CPHL14, VMFS16, BDJS18, BTM+17, CEF16, DT11b, DS13b, GH15, Gwi12, KO12, MCV18, SKK11, SLR16, SA14, WJCZ18]. **classically** [Wil15]. **classification** [CFSK14]. **classifications** [sL10]. **ClassSTRONG** [CPHL14]. **cleaning** [LLQX19]. **Clebsch** [HR11]. **CleGo** [HR11]. **climate** [DBD+17]. **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]. **cloud** [CNS+14, JTW+17, JVR12, KCN18, VPMVH+17]. **clouds** [APC+14, JH11]. **CLUMPY** [BHN+16, HCM19, CCM12]. **Cluster** [LX14, PEMS19, Smi14, BTC+17, CSPAD10, GGSB18, FLW17, GTH11, HLW16, JSLM16, KP12b, KSL+11, KO12, K103, KO14b, Kom15a, Kom15b, Kon15c, KO16, KZ14, LKM+16, MCA17, MTM13, TKR13, XLCW14, ZSW+17b, LX14]. **cluster-application** [GGSB18]. **cluster-cluster** [XLCW14]. **Cluster-Expansion** [PEMS19]. **cluster-labeling** [Kom15a]. **Cluster-parallelizable** [Smi14]. **Clustering** [HB14, MKMK10, DAW+19, LLHC11]. **clusters** [BBF+13, BG13b, BG14a, BLG14, Bon15, Bon16, BRH+16, DRR16, DCVB+13, GS17b, Gwi12, KSL+11, LLHC11, LSYZ12, LS17a, RRSCSJ10, 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]. **coalescence** [GCC+18]. **Coarse** [GB11, AGVP10, AMJ18, ESM17, FPY+17, PA13, SM19]. **coarse-grained** [AMJ18, ESM17, FPY+17, PA13, SM19]. **Coarse-graining** [GB11]. **coated** [CKLM10]. **coating** [CDSG11]. **Code** [KUV15, ZCC19, Bab14, BSM13, BNV18, Bar11a, Bar12a, BU11, BDPM15,
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confinement

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density-based [SSX14]. density-functional [GBR+14, MGRB11, MC17, SCRS17, SA14, TVGB15]. 

DensToolKit [SAHP15]. dependence [Ma´z19, MLK+17, MLK+19]. dependencies [Kan14]. Dependent [LB10b, BB17b, BMBC+17, CFCB12, CVK+17, DS13a, DHR14, DM12, FGLB12, GWL+17, GS15, GBR+14, GTG+11, HST+11, HML18, IB18, Ixa12, Kap16, Ker17, KTA12, KYSV+15, LV14, LBB+16, LYSS+16, MC16, MGRB11, MGL16, MC17, NPM16, ÖN12, PR13, PM16, RVDS16, RDVS18, SSB+16, SHZ13, SSH+13, SLC11, SBH+12, SCB17b, Ste17, TC11b, TVGB15, TT11, UW12, VBS+17, VVB+12, WL11b, XJS16, YSM+16, YSMA+17, ZHCR18, ZY15, ZKS13, dSF18, vH18].
determinations [BCH17]. determine [BMF+19, BSWC14]. determined
Determining [ACDdM14, VdLF14, MC10]. Deterministic [OU15b, ALC18, Asiu10, BL18b, GJLB12, TZG12, ZTG13, ZTG14].

deterministic/stochastic [GJLB12]. detonations [MTE17]. detuning [CdFDS16]. Development [Dan10a, Dan10b, GdGB18, HF16, HCHW11, KYKN15a, KYKN15b, LH+12b, OILK17, QLN14, SCLW16, SYD17, Sit14a, Sit14b, SHL+11, YLK17, YS17, ZKG+18, DBMR18, Gio14b, HvAS+13, HVMR10, HKVR10, RK11, Sch18, Uty14]. developments [GJA+16, LOSZ13, SAW18, SMO16a].


difference-collocation [LD10a]. difference-FFT [YXT+15]. differences [PVK+17, SCG11, UA17]. differencing [PTMDPK14]. different [CDS13a, DN13, EMW19, GVR19, MJB11, TRM+12, XLX+15]. Differential [BKK13, BKM14, BK15, BK16b, DSW15b, PTS12, APV10, ADr12, ADr14, ACDm15, ADr15, ACDdM19, CJJ+17, DJH13, DdMN16, DGST17, DSP15, FSJ+16, FBHB17, FF11, GJ14, GM17, GCA14b, HJ14, IH11, Jan10, JK10, JC13, JC14, JPM12, Jiw15b, KD17, KSIP12, Kra10, Lev19, LLI+12, LLI+13, sL10, MJ+10, MZE13, NO12, Ras09, Ras17, RBB15, VBC+12, VJC12, WYS10, WT15]. differentiate [Gio18]. differentiation [CL15a, CD15, Cha16, Gio18, GHR+16, HAV+14, SF10, VKS16, YB13, vH10]. differentiator [LZZL10]. difficult [ACDdM19]. diffraction [FNPMB10, GTL+17, MSPD12, WGI16a, WS11a]. diffactive [FNPMB10]. diffuse [Gri10, XD13, XHD15]. diffusion [BMW14, BO12, CYN19, CATK11, CB15b, CMdB11, CM14a, DMP18, DJ12,
EZL$^{+16}$, GA10, GN14, HJ14, HZ11, MBRV$^{+13}$, MFM15, MS11, Pla16, SGAA18, SCM14, SL14, Tau10, Tia11, WXW14, WFV14, XWF18, YQM12, YM14, ZSW$^{+17b}$, dSF18, dTOV18, BR11, KdMvO14, MNPF17].

diffusion-controlled [Pla16]. diffusion-convection [GA10].

digitized [KME$^{+11}$]. dilute [WZS$^{+11}$]. diluted [SFP11].
dim [GMF$^{+17}$].
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dimensional [dTOV18, vRWS14].
dimensionality [BH17]. dimensions [BDDM18, Chr18, DMC10, DKOS14, Exl17, KAvdL11, LA13, MÅWK18, TSIM16, dSdO12].
dimer [Ots11]. diminishing [MKU$^{+12}$]. diodes [YSN$^{+14}$]. dipo[lar [KYSV$^{+15}$, LBB$^{+16}$, LYSS$^{+16}$, TZM$^{+17}$].
dipole [HMU10, HRC11, RE12, SGD16, Tan19, TU14, vWB10]. dipole-dipole [Tan19].
Dirac [MN16, MFS10b, AL17, BB15, BW12b, BBF$^{+10}$, CPV13, FGLB12, HP14, KCT15, PB16, STK10, SP16, Sta13, TKS10, ZF16, dHV10].
Direct [LLZ$^{+17}$, SKH$^{+10}$, Wei11a, BCM$^{+16}$, CDS13a, GJ13, LOK$^{+16}$, LSK$^{+13}$, ML16, OP12, WBS$^{+18}$, WAW14]. Direct-MPI [WAW14].
direct-sum [GJ13]. directed [FLP10, QHC$^{+10}$, dSLF13]. direction [LST15, LSK$^{+13}$, MRL18, NO14, TT14, XYK12, XZ12]. directions [Hal17].
directive [BCG$^{+15}$]. directive-based [BCG$^{+15}$]. directly [Kon11, Sco13].
DMRHB [NPVR14]. Dirichlet [RC16, HSD17, Jiw15b, RC13, RHH12].
disaggregation [Bi15]. disc [Lan13]. discharge
[CHC$^{+11}$, LHH$^{+12a}$, UBERT10]. discharges
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disciplinary [WSH$^{+12}$]. disconnected [ACD$^{+14a}$, BCS10]. discontinuities [DR12].
Discontinuous [SVS19, EW14a, Ein16a, HLLH16, HWS16, LLP15, LLMW17, Maz13, QWZW18, WP10b, YWX11]. discovery [LCRL10].
discrepancy [VLD$^{+12}$].
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e-infrastructures [GBS+16a]. e-Science [LSJ13, CKhN11]. E6Tensors
early [SCW+11]. Earth [MPS13]. Easy [DEW16, Sou14].
EasyFeynDiag [XW15]. EBT2 [ACdS13]. EC [MTM14]. ECE [MTM14].
ECsim [GHBL18]. eddy [TIMM13]. edge [BMU11, CCLL18, FRFH10,
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eigensolvers [DB13, LT15, VBS+17].
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eight-step [PAS11, PS14]. eight [PAS11, PS14].

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Eisenbud [RA13]. EKHA [CI11, CK19]. EIAM [MLW+10].
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electrical [CKT17]. electrically [HC16, Ram12].
electro [PGO17, Wie18]. electro-dynamical [Wie18].
electro-mechanical [SWL11].
electromagnetic [AHK+12, CC14, CC15, CSJ+17, CZF18, Fuk17, GLAC13, GCM18, GH15, GCHL15, JLM18, KOT12, KC14, KTE+12, LRPR17, LHJZ10, LHC+13, LF12, MIW+13, MUK+12, MCM+12, ORI+10, Oti13, OVI15, PP13, PY14, Ram10, Ram14, SKK17, SDL+16, VV18, WGG16, WN10, ZHSL13].
electromagnetically [WL11b]. electromagnetics [QWZW18].
electrodynamic [MAIVA14].

Elastodynamic [MAIVA14].

Electron-phonon [PMVG16, CGB14, KA17, NGM+10].
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electron-electron [DCC+10]. electron-loss [Lit13]. electron-molecule [ART17].
electron-phonon [PMVG16, CGB14, KA17, NGM+10].
electron-positron [GGGH14, Kol15]. electron-repulsion [TO10b].
electron-surface [CL11]. electron-transfer [NB1+15]. electron/hole [Dua12].

Electronic [BDPM15, CJH11, CSL+13, GZL14, THJ+10, WWL11, BC10, Bjo11, CLC14, Cor14, DO14b, FZ16, GWL+17, GCP+15, HKSW10, HCC14, JWCD17, KKS18, LCY+11, LCP12, LSK+14, MED11, MNPY14, MC17, PKV+14a, PVK+14b, PSI16, Rut18, RJKC16, SS10a, TMA+15, TC12, TG11, YFAT17, zYCG+18, YG12, ZZ15, XNK+16].
Enhanced [BHNS17, CHDCJA17, Rap11, JTP15, KGFS18, PLD15].
Enhancement [VCMS+13, CLY11, EEEW12]. enhancements [LOK+18].
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entanglement [RLL12]. enthalpies [ZZH+16, ZMCT12]. entire [Wei11a].
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FGLB12, FGG11, GS15, GVS+15, GA10, GG16, BSY18, GTG+11,
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MM12, MJKB18, ON12, OILK17, ORS+14, OAKS11, OK14, PS11,
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UNK12, Ume18, VDAH16, VB+12, Wil19, XHLUF+18, XZ12, YZ16, YZ19,
YK18, YSV+16, YSMA+17, ZFH14, ZSW+17b, ZDW17, ZST11, ZCG17,
dB14, dHV12]. equations [AAD13, ACCB13, APV10, ABB13, AD14, AD15,
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BSM13, Bar11b, BKO16, BCT17, BK11b, BB10, BB13b, BAK+15, BAK+16,
BAK+17, BHW+12, CZD15, CR13, CDT10, CB13b, CSJ+17, CKK+13,
CBB+10, CM14a, CEF16, DT10, DT11a, DN13, DM17, DJ12, Dem13,
DH13, DJ14, DSP15, ENE015, EW14a, FDZ17, FBHB17, FF11, FSC13,
Fon12, GML15, GJ14, GJLB12, GM17, GX15, HLLH16, HK12, HHC+10,
HB12, HM12b, HCHW11, HII11, JPSS10, JK10, JC13, JC14, JYPA18,
JCL+18, Jiw15b, JSLM16, Kan14, KMM13, KD17, KO14a, KZC+10, Kra10,
LK12, Lev19, LW14, LLP15, LST15, LSSZ14, LL12, LL13, sL10,
LLSW14, MDHD18, MBJ+10, MWCY14, MZE13, Moh14, ICD13, MNOO11,
NO14, NO12, PKT15, PDRG10, PES12, PSL+17, PE15, QYM11]. equations
[QA13a, Ras09, Ras17, RBB15, SAW18, SDM+12, SDS+17, SK15, SW14c,
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Exchange [NHD16, ABC+ 18, AAB+ 10b, BKC+ 17, Boe18, DG10c, GXF+ 15,
GJB11, HW12, IIO16, IFOI18, JJ15, LK15, LKT+ 16, MOB12, 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
[BHW+ 12, CHNS18]. exclusion [BBH+ 10, BBH+ 11a, LTL+ 12]. exemplar
[JTP15]. exhaustive [TC11a]. ExoData [Var16]. exoplanet [Var16].
expanding [HM12c, LP15]. Expansion [JDG12, PEMS19, 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]. experiments
[CHC+ 11, GSB+ 14, KD16, DMH16, VLD+ 12, WJCZ18]. explained
[JKG+ 18]. Explicit
[Bla15, VEB+ 18, AH13, Ber16a, Ber16b, CW16, DBMR18, DM17, DJ14,
FG13, FGR14, KZC+ 10, KAS12, LCE+ 13, QSC14, RL10, SCLW16, SS10b].
explicitly [LV14, PZY16]. Exploiting
[ASPW13, BBV+ 16, RDN+ 17, RFSF18, YRR13]. Exploring
[CDS+ 13b, GTS14, Yan11, MG10a, Mül11a]. explosions [BNAB11].
exponent [XZF12]. Exponential [Ert15, PTMDPK14, ZNT15, AQJ10,
BCT17, CEP18, GDB10, GH11, Ike18, Moh14, PZY16, Pat12, PH11, Ram12].
Exponential-time [PTMDPK14]. exponentially
[Bla15, CFMR10, FG13, Miy15]. exponentially-fitted [Miy15]. exponents
[MH18, dSFdFF13]. expressions [Dua12, MBGK11, Zit11]. Extended
[FLW10, FMW10, GS17a, KSL+ 11, KR16, LS15a, PPY14, WC15, Wu10,
YWYF09, BSM13, Bla15, BDGM+ 17, DDH17, DGST17, LWYW11, LW13,
Mül11b, Mül14b, iNSK+ 15, PBL+ 18, RLM13, XW15, YZWR14].
extended-Lagrangian [iNSK+ 15]. extendible [SCM14]. Extending
[KK16b, FHA17]. extensible [CFW17, RBG+ 19]. Extension
[AM11, GHvSF14, KAH18, Maı̂12, NBW16, GYW+ 10]. Extensions
[ABH+ 18, BCPS11, PS12]. extensive [BG14b]. exterior [BH14b, BH16].
eXtra [BBB+ 15, BDDM18, CD12, EGPS10, PR13]. extra-high-order
[CD12]. Extracting [SAS11, CTT17]. extraction
[CKCS13, MSPD12, OG14, OO15b, OO15a, RJ12]. extragalactic [KOT12].
extrapolation [MC12, dDYK+ 18]. extrasolar [HTT13, HTT14]. extreme
[BY17, DKOS14, NOR15, VV18, WSH+ 12]. extreme-scale
[BY17, WSH+ 12]. extrinsic [DMC+ 15]. extruded [NCB18].
F [NDSH18]. F-t-Pj-RG [NDSH18]. FabSim [GBS+ 16a]. Facilitating
[GBS+ 16a]. factor
[GDB10, MSZW11, TZG12, XHLUF+ 18, dlHV10, XHLUF+ 18].
Factorization [BvH15, JOK13, Gar19, KK14a, LHJZ10, RW11]. factors
[AHK+ 12, Pál12, YFAT17]. Faddeev [DVB11]. Faddeeva [Cha16]. failure


[Pra11]. Falkner [RL10]. family
[ACDdM15, AAdM15, DZ13, rJmYT11, NCHN15, WCT11]. FAPT [BK13b].

far [CFZ18]. far-field [CFZ18]. FAST [Ruf13, ABRs12, BG13a, BKM11, Bot11, BGL+14, BSU12, CZ17, CdLOL19, CC10b, CC12, DHJ13, GRZ10, HC16, HS16, KAK12, KME+11, KHN19, Lut15, Maz13, MSS+14, PKR16, TO10a, VLPPM14, WISA11, WSO+12, AGB+15, BT17b, BMBC+17, Bru13, CJ+17, CRLS18, CB15d, CCN17, Dat13, Fow18, GMF+17, GJHF14, GCH+18, Ham11, HDF+19, HP11, JLR13, KL17, LC15, LCQF18, LL15, LCHM10, LCHM13, LLX14a, MRZ10, OL12, OYK+14, Qia10, Qia17, RMU13, Ser17, Ste17, Sza16, iT11, TSH16, WX15, XAPK14, YBK+11, YBNY13, ZHSV10, ZIC12, ZrvR16, vWB10, EBD17, FCC15, JLR13].

Fast-NPS [EBDM17]. Faster [Nie18]. favourite [DDK+15]. FCNC [CRC+13, RCD+10, Ros15].

FD [DM17]. FDTD [Ram10, BAFR12b, CKK+13, Fan19, FBN+13, FOB+15, Jia18, KKP11, KP12b, KO14a, LJD+19, ORI+10, PYW+14, Ram10, Ram12, RHW+12, SSH+13, VEB+18, WWWH14, Yan09]. FDTD-based [BAR12b]. Fe [LQZ+13, BTM+17, LS17a, TG11]. Fe-3 [LS17a]. FEAST [LZP12].

features [TBB+14]. featuring [EBCB+14]. FeCo [PEMS19]. Fedosov [Tos10].

Femto [LQZ+13, BTM+17, LS17a, TG11]. Femto-second [LJSW11]. Femto-second [IB11, REtVH12]. FEOS [FT18].


FeynArts [FHH+14, Sta10, SV12]. FeynCalc [SMO16a, Sht17]. FeynDyn [Dat13]. FeynHelpers [Sht17]. FeynHiggs [HP17]. Feynman

[Bar14, Dat13, Ell17b, Fri14b, GM17, Kan18, MUU18, Nog17a, Nog17b, Pan15, Sem16, Smi15, Smi16, Stu10, XW1Z13, WX15, dALM+12].


FibrilJ [SBB+17]. fidelity [HZW+16, MMO+17, TTS11]. Field

[NDH16, RLGM+11, BW16, BG11, BMS+16, CZD15, CHDCJA17, CSJ+17, CZF18, CCHL11, CPXL14, Cri18, CHZ18, DF13, DPB16, EPB+16, EEW12, Erm18, ESM17, Fk17, GA15, GZW17, GLW14, GX15, HO13,
HEF$^{+11}$, JTT$^{+11}$, KB15a, KH12, LPRPR17, LDR$^{+17}$, LLSK17, LFG14, LXR$^{+18}$, ME18, McM17, MEG12, NPVR14, NVW$^{+13}$, Nut14, PC11, PCCM14, Pit12, QL10, QJF16, RS12, RK11, SEW12, SEW14, SZM$^{+14}$, SCM$^{+16}$, SW11, TSK$^{+17}$, TKP15, WHG$^{+19}$, WHY19, Wie18, XHLM12, XLX$^{+15}$, YLK10, YZ19, ZKG$^{+18}$, ZKS$^{+18}$, dB14, vdSM16, Asc10.$^{36}$

field-aligned [HO13, LDR17]. field-particle [CSJ$^{+17}$]. field-theory [DF13, Nut14]. fields [Asc10, BMW14, CFSK14, DOP17, Dua12, GH15, GBSY18, HSD17, JPK$^{+12}$, KOT12, Ki10, LSJ13, LR13, LR16, ´ON14, PQTGS17, PM13, SW14a, SAHP15, Tau10, TC11b, Wai12, ZYZ15].

FIESTA [SST11, Smi14]. FIESTA4 [Smi16]. FiEstAS [Asc10]. fifth [DSW$^{+15a}$, NS15]. file [iSYS12, SMCB15, SV12, dBCH14]. file/Mif [CF16]. files [CF16, Hir15, Sta10]. filled [CBB14]. films [BL14, BKN17].


financial [CLKK11]. find [ADdM14, ACDdM19, MLGVE14, Pra17, ZAHA10]. Finding [ACDdM15, DdMN16, Kan14, SS13a, VJC12, BUJ15, GLZ17, Ike18, MST$^{+18}$, MWCY14, RC18]. Fine [MEM$^{+11}$, Bru13, CYD11, Faw10]. fine-grained [Bru13]. Fine-sorting [MEM$^{+11}$]. fine-structure [CYD11]. FinFET [LCH11]. Finite [DJ12, DSPJ10, FHTO17, HZW$^{+16}$, KST14a, MAIVAH14, OBH10, SBvD13, TMA$^{+15}$, Wil19, Zag14, AAD13, AS11a, ACTP15, BKOZ16, BM16, BMNS14, CCLL18, CAN11, CTL15, CW16, CCHL11, CRA10, Cor14, DT10, DM17, Den10, EKDG15, EVs14, FNPMB10, Fu19, GML15, GBP13, GS17b, GS17a, GB14, GLW14, HE13, Has11, Hsu11b, HZ11, IP14, JLM18, KCT15, Kob13, KMD12, Koh15, KM17, KVW11, LOL$^{+18}$, LD10a, LA13, LW14a, LV15, LHJZ10, LLXK16, LUX$^{+17}$, LHH$^{+12b}$, LOK$^{+18}$, LNP$^{+17}$, Ma19, MB12, MSS$^{+16}$, MMB15, MBJ11, MLK$^{+17}$, MLK$^{+19}$, MBFD12, ICD13, Naz12, ´ON14, OWS$^{+15}$, Ot13, OVS15, OT11, PVK$^{+17}$, PB16, QLN14, Ram14, RS12, RVD16, RVS18, RC13, RC16, SW14a, SP16, SLK19, SC15, SHL$^{+11}$, SBH$^{+12}$, SAN18, SCG11, TT14, Ter17, TYH$^{+15}$, TXZL15, VLPPM14, VDB14, VDA16, VV16, WZ13]. finite [WP10a, Wit14, YRR13, YXT$^{+15}$, YQM12, YQM14, dDYK$^{+18}$, Hak16, HKF$^{+12}$, LYP14, MCM$^{+12}$]. Finite-Difference [Wil19, DSPJ10, TMA$^{+15}$, ACTP15, CW16, FNPMB10, GS17b, GS17a, GB14, HE13, MSS$^{+16}$, MBFD12, ICD13, RC13, TT14, VDB14, VV16, Wit14, MCM$^{+12}$]. finite-dimensional [Naz12]. finite-element [VDA16, Hak16].

finite-range [Cor14]. finite-rate [SAN18]. Finite-size [OBH10, EVs14]. Finite-temperature [KST14a, BM16, KCT15, SLK19]. finite-time [Has11]. finite-volume [Fu19, LHH$^{+12b}$, SHL$^{+11}$]. finite-volume-particle [LOK$^{+18}$]. finite/infinite [SBH$^{+12}$]. Finsler [YE14b]. FIRE [Sht17]. FIRE4 [SS13c]. FIRE5 [Smi15]. First [BK16, EY11, FWZ$^{+12}$, PBMAD12, SQL$^{+10}$, ADdM12a, ACDdM14, ACDdM15, BP12, Boy15, CSL$^{+13}$, DdMN16, ELL$^{+17a}$, GPS$^{+13}$, GM18, GCVA14b, JLA$^{+14}$,
fractal [ADdM+12b, EBCBG17, GTL11, GFB+10, GGF+13, RU13, GGF+13, GES13].

fraction [BMS+16, ZTG13, ZTG14]. fractional [CYN19, Dev12, DS15, HZ11, JC14, JL10, LLL13, MDHD18, PSB11, PSBT12, SW12b, YQM12, YQM14, BK13b]. fracture [RT˚AT15, VLM11, VKLM11, VLM11].

fragmentation [BG14a, DG16, HK12, MST+18]. frames [MFS+10a, SS11b]. framework [AKH+18, Ano11o, CMC+15, CEZ16, CPWZ18, CFS13, CFFR15, DMC+15, ESM17, DRI+16, GVR19, GBFJ14, HMR14, HU12b, JEC+12, JNN12, JNN13, KEH12, KSTR15, KSH14, KPOR18, LFDK18, LSSD14, LS14, LS15a, LRW+15, LPZ12, MLR10, MGFRG12, NBM+15, NPG14, PGO17, RBBG+19, RM14, SV14, SSSX14, SJ18, SJS11, SPS18, Sva12, TOB+14, TE18, TVT+16, VEB+18, WVG14, ZHZ+16, ZHL11, CF16, FCC15].


Fuchsia [GM17]. fuel [AZM14, BCP+16, NGCI+12, VS19]. Full [DNPS13, AM14b, BMU11, CL15a, CGRB14, CFF19, Dan11, DGS+19, FYK18, FHE11, GAB+16, HEF12, JBG+17, KGG+16, Liu15a, LWES18, PBADM12, PGM14, Wie18, YTYA17, ZYY15, RSSH+10]. full-[GAB+16, DGS+19]. full-field [Wie18]. Full-Metadata [RSSH+10].

full-orbit [CFF19, PGM14]. full-potential [LWES18, PBADM12]. full-torus [KGG+16]. full-wave [FYK18]. fullerences [RM14]. Fully [LOL+18, LWES18, FVH18, HHS+10, KRB15, PN15, Pik18, SSB+16, VVB+12]. Fully-implicit [LOL+18]. Fully-relativistic [LWES18]. FUMILI [Sit14a, Sit14b]. FUMILIM [Sit16]. function
[AQJ10, AKR15, AK13b, ACDm19, BH11, BSGG10, BK16b, Cha16, CDL+12, DCC+10, DN18, DM17, DdMN16, Fen12a, Fen16, FM12, GST12, Jab12, Jab13, Jab15, Jab19, JLM18, KDM11, LSF14, LKL11, Lee18, LHS114, MR13, OKP10, PLF+17, Pla16, PM13, Raw15, RMC16, SS11a, SGSG19, TTT16, Ve12, XD13, XHD15, YTYA17, ZF15, ZDWM17].

function-velocity-magnetic [YTYA17]. function/orbital [SGSG19].

Functional
[BC10, DBB12, GS17b, GS17a, LT15, VCMS+13, ASA18, AKZ+13, BBH11b, CDTV10, CXH+15, FSC13, GWL+17, GBR+14, GSZ13, HB12, HHS+10, JCW+13, KT12, KCT15, KKL+18, LS11, MGRB11, MOB12, MSS+16, MC17, OOK+12, OT11, RHC15, RCH16, Roh16, RWKS15, SCRS17, SBH+12, SA14, TVGB15, VBS+17, WX14, WLGY18, YLYL17, YRR13].

functionality [CB15a, CB17]. Functionally [WT15]. Functionally-fitted [WT15]. functionals [GBR+14, LRW+15, MOB12, NPAD11]. Functions [CGO17, ARAB+17, AWK+16, BCC+18, BDBV12, BMW14, BKK13, BKM14, BK15, BK16b, CM10a, Cai11, CMSN18, CD15, CCWL11, CLJ12, CSRV13, CEPI10, Cui13a, Cui13b, DRRI17, EUT+15, Ert15, ERP+12, Fow18, FP14, GDB10, GST15, GTS14, GS14, GYW+10, GCVA14a, HK12, HCH16, HL13, HM12c, JL12, KK16a, Kap12a, KH11, KCL11, Kir10, KAW+10, LD10b, LM12, Liu11, Liu13, MK10, MYP+14, NGM+10, OWS+14, PPY14, PDRG10, PG10, PVK+14a, PVK+14b, PMVG16, PB16, RA13, RE12, Sar17a, Sar17b, SSG+10, SSG+18, SPMM11, SD10b, WWS10, WAHL13, WPD+15, ZDY10, ZMCT12, vH11].

fundamental [LZP12, MK10]. Fusion [RtV16, AGB+15, DDKM15, ECSH16, FK12, FR15, HLM13, Hon18, HJL+14, KRK16, LLQX19, LHJ+15, Maz13, MN18, PBL+18, Shi16]. fuzzy [GES13].


GASPRNG [GP13]. gate [MNW+17]. gate-based [MNW+17]. gateway [VK16]. gather [MTO15]. gauge [BB13a, BW12a, CB13a, CSBO13, Fri14a].
**Gillespie** [CF17]. GiMMiK [WWR +16]. Ginzburg [SA15b, Wan10a, WZ13]. GISAXS [BNK +17].

**glacial** [RT˚AT15]. Glass [LC +11, BL14, BPP +11, LB15, Yama16]. glasses [BW11, IZRT15].

**Glasstone** [TZG12]. Glassy [CH11b, Has11].

**GLauber** [RSBB14].

**GLISSANDO** [RSBB14].

Global [MTS +16, PPS10, WMM +14, Addm16a, Addm16b, BY17, CDm14, CJJ +17, DGS +19, FLK +13, GAB +16, KTE +12, KHR14, KTA12, KSY +13, LLQX19, LYP +14, SK10, TBZ12, VPP +12, VHP +15, WLH +12, WLS13, ZFR18].

**globally** [RC18]. globular [RV10].

**glsim** [Gri11]. gluino [AMRdA17].

**gluodynamics** [Fri10]. gluon [BBU11, BvH15, HLM +13, HAH13].

**Gmat** [CNMC10a].

**GMES** [CKK +13].

**GMXPBSA** [PSMS14, PSMS15].

**GNU** [YSMA +17].

**GO** [BD12].

**Godunov** [KPPC13].

**gold** [YLYL17, ZDD +13].

**Golem95C** [CGH +11, GHvSF14].

**good** [MA11, TC11a, YZ16].

**goodness** [Gag12b, GH18].

**Gordan** [HR11].

**Gordon** [DN13, KZC +10, AH13, DG10a, DG10b, Eba13, JPM12, LD10a, MD10a, PIL12, PTA12, RM +10a, SW1 +14c, dHL12].

**GPELab** [AD14, AD15].

**GPGPU** [LYZ13, ÔN14, PQTG17].

**GPGPU-accelerated** [PQTG17].

**gprMax** [WGG16].

**GPU** [AKS17, BS14a, BWB +17, BKOZ16, BPP +11, BFP +12, BBS14, BLS17, BD10, BPV10, BTL +17, Boe14, BTC +17, CCL +18, Cap13, CMVRB +14, CMRVR16, CHNS18, CCL +18, CSSB15, CRLS18, CBYG18, CRB +17, CLB11, DRR16, DS13a, DCV +13, DCGG13, DG13, ELD14, ELL +17a, Exl17, FFT +14, FGC +11, FDWC12, Fil13, FBN +13, FOB +15, Gai17, GP13, GJ13, GLHG12, GHR +16, GB17, GCC +18, GJ18b, Ham11, HWX +13, HPN18, HW12, Ihn12, JK14, JPCG15, JXTS16, JCW +13, JWCC17, KKP11, KP12b, KPA +19, KO12, KO13, KO14b, Kom15a, Kom15b, KO16, KMA +12, LYP14, LCC13, LGW13, LSYZ12, LB15, LWRQ16, Lut15, Lya15, MDW16, MÅWK18, MP +11, MFM15, MHR +13, MTM13, NDU16, Ng17, OP12, PR14, PLD15, PBS +17, PKR +16, RD10, Sai10, SGN17, iSYS12, Sie16, Sm16, SKM15, T17, TS19, TCCV18, TDL +14].

**GPU** [TPC16, WXW14, Wei11b, WS14 +14, Will9, WC13, WAW14, XL13, YHL +13, ZSW +17b, ZPS +18, ARYT17].

**GPU-accelerated** [ELD14, GHR +16, TL17, WXW14, BTL +17, Cap13, CRB +17, DS13a, GJ13, Ham11, HWX +13, MHR +13, Ng17, PBS +17, XLX13].

**GPU-based** [Boe14, CMVRB +14, FDWC12, JPCG15, KO12, Kom15a, KMA +12, LCC13, PKR16].

**GPU-centric** [Sie16].

**GPU-code** [EZBA16].

**GPU-enabled** [LYP14].

**GPUQT** [FVH18].

**GPUs** [BL18a, Boe18, ACD +14a, AAT17, AEKO18, BS14a, BCDI12, CMVRV +14, CB13a, CSBO13, CWY +17, CBB +10, CSV +18, Ch11b, CBB14, Dat13, Dem13, DSP15, ECD +10, FGG11, GNA +15, GB17, GM18, HTJ +16, HA +13, HLYZ +13, LQ18, sLqSqL +13, MR14, Maz13, MRSD15, MKB +11, ÔN12, PVK +17, SV13, SOON11, SAN18, TK14a, TCP13, WXW13, WAHL13, WRR18, WWM14, YL12, YBK +11, YBN13, dJBIM16].

**GPUs-The** [HLZ +13].

**gpuSPHASE** [WMRR17, WRMR19].

**GR** [OK12, OK18].

Grad
\[\text{gradient} \text{ [AG12a, CR12, EFK} +19, \text{HbotRC15, HKVR10, JHL} +15, \text{KN13, SEGPG15, WX14].} \]
\[\text{gradient-based} \text{ [HKVR10].} \]
\[\text{grading} \text{ [vSGB} +18]. \]
\[\text{GRADSPMHD} \text{ [VKP14].} \]
\[\text{grained} \text{ [AGVP10, AMJ18, BRU13, ESM17, FPY} +17, \text{PA13, SM19].} \]
\[\text{graining} \text{ [GB11].} \]
\[\text{Grand} \text{ [AS16, PLCC12, Sit18].} \]
\[\text{Grand-Canonical} \text{ [AS16].} \]
\[\text{grand-canonical-like} \text{ [PLCC12].} \]
\[\text{granular} \text{ [AGVP10, AMJ18, Bru13, ESM17, FPY} +17, \text{PA13, SM19].} \]
\[\text{graining} \text{ [GB11].} \]
\[\text{graphics} \text{ [CCL15, WWL11].} \]
\[\text{graphics-processing} \text{ [CCL15, WWL11].} \]
\[\text{GravitinoPack} \text{ [ES16].} \]
\[\text{gravitational} \text{ [Cro16, GCC} +18, \text{KM10, PMS} +15]. \]
\[\text{Gravitation} \text{ [MM10].} \]
\[\text{Greedy} \text{ [SJ17].} \]
\[\text{Greenwood} \text{ [CKT17].} \]
\[\text{green} \text{ [AK13h, JLM18, KK16a, KDM11, Lin13, PLF} +17, \text{PLa16, SGS19, WAHL13, XD13, XHID15].} \]
\[\text{GridMD} \text{ [MV11].} \]
\[\text{grids} \text{ [BHS15, DJ11, DHS14, FRFH10, GN14, GSKM14, HWS16, JBG} +17, \text{JBG} +18, \text{LYP} +14, \text{LHGF} +18, \text{MTO} +15, \text{Sch} +18, \text{SC15, SHL} +11, \text{YJK} +11, \text{ZNT} +15].} \]
\[\text{GriFF} \text{ [MLR10].} \]
\[\text{GRLW} \text{ [MM10].} \]
\[\text{GROMACS} \text{ [PSMS14, PSMS15].} \]
\[\text{GROMOS} \text{ [SCC} +12]. \]
\[\text{ground} \text{ [ABB13, AD14, AD15, ABD17, CR13, JCL} +18, \text{KYSV} +15, \text{LBB} +16, \text{LYSS} +16, \text{MGL13, MGL16, SSB} +16, \text{VDAH16, VVB} +12, \text{YSVM} +16, \text{YSMA} +17].} \]
\[\text{group} \text{ [CR13, ELL} +17, \text{JWI13, MH11, WX14, WGG16].} \]
\[\text{group} \text{ [CLKK11, FSC13, Fon12, HB12, JC16, KK16b, LSSW14, MSHLS15, MSHL17, NBN} +14, \text{PO14, RH10, Roh16, Sta11, Trö11, Ver16, WPAV14, ZAH10, LSR} +17].} \]
\[\text{group-correlations} \text{ [CLKK11], group-theory} \text{ [ZAHA10], groups} \text{ [Nik12b, SK10].} \]
\[\text{Grover} \text{ [LYZ13].} \]
\[\text{GROW} \text{ [HKVR10].} \]
\[\text{grown} \text{ [RDF14].} \]
\[\text{growth} \text{ [FBG10, JEF14, LLSK17, MÄWK18, MS11, RH11, SÖN11, ZKG} +18].} \]
\[\text{GSGPEs} \text{ [CR13].} \]
\[\text{GTROTA} \text{ [BSM13].} \]
\[\text{Guadua} \text{ [VLM11].} \]
\[\text{GUI} \text{ [VLM11].} \]

H [BL18a, KKSY18, PCEH15]. H-COUP [KKSY18]. H1 [GRZ10]. H2SOLV [ZY16]. H5MD [dBCH14]. Haar [Jiw12, KMM13]. Haas [RJ12]. Hadron [BSW12, ACD+14a, BDC+14, BHZ13, CCN17, CM14b, DDKM15, Gao13a, GLS+13, Gri10, OK12, OK18, SZY+12, SYZ+13, ZYL+15, Tom16]. hadronic [CWW10, CWW15, CPWZ18, GLPQ11, KKK+15, WW13, ALL+11].


high-precision [BDT15, LM16, SLK19]. high-pressure [SHW18].
High-resolution [PHA18, BMG+15]. high-speed [CSN+18].
High-temperature [HvWT17, Liu15a]. high-throughput [ZZ17a].
high-velocity [JH11]. Higher [ABdA15, CD18, KO14a, WP10b, ACDdM15, 
Cha16, CLJ12, DKOS14, MO14, SR12, SC16b, SB11, VJC12]. Higher-order 
[CD15, KO14a, Cha16, SC16b, SB11]. Highly 
[CH11b, LBP15, MTM13, MGR16, PFK19, dSF18, BY17, GRLS18, 
HBP+15, MSL10, SEW12, SEW14, WQ18, WDR16, YBNY13].
highly-efficient [WDR16]. Hiking [Br´a15]. Hilbert [ERPFLS15, SA15a]. 
Hilliard [LLXK16, YZ19]. Hirshfeld [EPP12]. histocompatibility 
[HFSK12]. Histogram [FLE19, CMRVVR+14, CMRVVR16, Sha18, VK14]. 
Histogram-free [FLE19]. histograms [AMR15, Gag12b, Gag12a, GH18]. 
HMC [CD15, KP12a]. HNLS [SB11]. HOC [TY10]. hole 
[Dua12, Gin10, LZL11]. Holm [ZST11]. hologram 
[BGL+14, JTP15, MSS+14, WSO+12]. holograms [BD10]. holographic 
[FBN+13]. holography [MSI+10, ZSW+17a]. HoMnO [KAR+15]. 
homogeneous 
[Asi10, BK11b, MSLS15, MSHL17, PN15, SCNJ18, SLEF17, vMB14]. homology 
[DS13c]. Homotopy [CS10, PSBT12]. honeycomb [MHH11]. 
Hooke [RGKR17]. Hopf [Bo14]. horizontal [ME18]. Horn 
[BKM14, BK15]. Horn-type [BKM14, BK15]. Horner [KPvH13]. 
HOS [DBLF16]. HOS-ocean [DBLF16]. Hoshen [FKH15]. hosphe 
[CDTV10]. HOTB [GSMK17, SMGK14]. Howes [ABB+14, BBC+13a, MHA+12]. 
Householder [NLSJ17]. hp [BCM+16, LWL11, Roh16]. hp-RG [Roh16]. 
HPAM [ERPFL12]. HPC [DDJC+19, Cdc+11, GBK+12, HL18, OLG+16]. 
HRMC_2.0 [OPSR13]. HRMC_2.1 [OPR14]. HTC [Cdc+11]. Hubbard 
[MHH11, SA15a, SH12b, US16, WDL11]. Huge 
[WSI13, BMC+11b]. Huge-scale 
[WSI13]. Hut [WHS+12]. Huygens [VLZ17]. Hybrid 
[BCTP18, GJLB18, KSS18, LRW+15, ML17, OPR14, SSB+16, SS11b, TH17, 
VCMS+13, WDL11, WLZN17, YHL11, dIRM18, AAD14, BCD+11a, BD12, 
BT17a, BWPT11, BKPT12, BY13, BMDP19, CW16, CL13, DUC+19, ES11, 
FGR14, GWL+17, GC12, Gni19, Gwi12, HLW16, JTN+11, Jiw15a, KK13, 
KKL+18, KCS+15, LCY+11, LHC+13, LHH+12a, LSYZ12, MIW+12, MM17, 
MKU+12, MSM+11, MKKB18, PZZL19, RTT+18, SZ15, SP18b, SS13b, 
SPS10, SYE+18, SGS919, TFBW14, WLGY18, WC13, WAW14, YvOSM15, 
YLO+17, YXT+15, ZC12, GBR+14, HKZN17, OPO+11, OPSR13, Urb18]. 
Hybrid-optimization [WLZN17]. hybrid-stabilized [JTN+11]. 
hybrid-symbolic [SZ15]. hybridisation [SKF16]. Hybridizable 
[SVS19, HLLH16, LLP15, LLMW17]. hybridization 
[AK13b, HWG13, SGW17, VPP+12]. hybridizations [SGW17]. hybridizes 
[YLY17]. hydraulie [WNYP17]. Hydrodynamic 
[BSL13, BOGL17, GZW17, KHB14, LCH11, LKW11, WSH+14, ZD15]. hydrodynamical 
[NAQ16, QA13b]. hydrodynamically [APC+14].
Hydrodynamics [CDR 15, FHTO17, GRLS18, KS16a, DCVB 13, DCGG13, EKK14, GLB13, GCH 18, HLS 17, HPN18, JXTS16, KPPC13, MRS15, NFS15, RH17, RTA10, SC15, SC16b, SN16, WRR18, dIRM18].

Hydrogen [WBY11, BP12, BH14a, BH14b, BH16, BKS15, JTT11, LH11, MFS10b, SW14a].

hydrogen-like [BP12, MFS10b].

hydrogenic [PG10, Sar17a, Sar17b].

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 [BKM14, BKK13, BK15, BK16b].

hyperfine [ZE11, ZE16].

HYPERgeometric [BK15, BKK13, BKM14, BK16b].

hyperlogarithms [Pan15].

hypersonic [BTC 17, PBD 15, TIMM13].

hyperspherical [AV13].

HypExp [HM12c].

Hypotheses [Zlo14].

i-PI [CMM14].

I.V.P.s [RL10].

I/O [DRUE12, GGI 13].

IAST [SSH16].

IBAR [Cas12].

IBM [CRA10].

ICC* [KSH11].

ICCG [PYW 14].

ice [HYM11, IUM13, RTAT15, TS10].

ICSM [BBL 13].

Ideal [SSH16, LOL 18, PE15, TDL 14].

IDEN2 [AKV18].

identification [PLD15, VBMP15].

Identifying [LZ12, Kra10].

IDSOLVER [GJ14].

iEBE [SQS 16].

IFE [RtV16, RtV16].

IGA [LWP 17].

iHixs [DLM18].

II [RHHB15a, Ano11a, AD15, ABH 19, BJBC 14, BH14b, BMW14, BAK 16, Dan10b, HBS 11, Nog17b, dRAPL11, RHHB15b, SH18, SAS11, SSK 13].

III [PSL 17].

illustrating [ZW15].

illustration [CLB11].

Image [DGPOR18, iSSMI11, GES13, JTP15, LAS 17, TW15, XD13, XHD15].

ImageJ [SBB 17].

images [AKKK16, CRB 17, GBF 10, PVH 17, WGI 16].

Imaginary [LR13, LR16, ABDR17].

imaging [CFCB12, Fer15, GB 14, SSM 17].

imbalance [WRB11].

imbibition [GTSL 13].

imbibition-drainage [GTSL 13].

Imeall [LFKD18].

IMEX [DMP18].

IMEX-trigonometrically [DMP 18].

imbibed [CCHL11, CGJ14, JvOK17, NCB18, Ser10, YS17].

impact [CCLL18].

impedance [ deadlock ].

Impingement [LNS15].

impinging [HHT14].

implants [RS 12].

implement [MRL18].

Implementation [AS16, Alv12, BKOZ16, BDPM15, Boe18, BF10, DPK 15, GSZ13, GES13, GFJ 14, HP17, IIO16, IFO18, LLG17, MHI 19, MPB10, MFG 13, MBGV15, NBN 14, RV10, REBS16, SSX14, TIM 16, VDB14, WP10a, Ara14a, Ara14b, AKS17, ADyM12a, APC 14, Bad11, BCW13, BCW13, BH16, BVS19, BW15, BG14b, BEN 17, CTK17, CFCB12, CL15b, CGJ14, CGG 14, DEMM19, DA16, DCVB 13, DM12, FGC 11, Fow18, Fri14b, FHH 14, GS17b, GS17a, GVS 15, GBH18, GB17, HWG13, HPOP15, HLM 13, HDM 12, JWL12, JK14, JWCW17, JJ15, JKS16, JP10, KFS17, Kap12a, KKG 15, LKM 16, LBM 14, LH11, LK15, MFB 10, MSS 16,
infrared [Gar19, SC16a]. infrastructures [GBS+16a, VPMVH+17]. InGaN [YSN+14]. InGaN/AlGaN [YSN+14]. Ingólfsson [BL18a].


SAY+18, TJH17, Yan11, ZZ15. **Interactions**

[KC18, BBL+13, BCH11, CCGC13, CB16b, Cro16, ERP+12, Fil13, FZY17, FN17, Gao13a, GM16, HCSW10, KGFS18, KMD12, KM17, Kra17, Kra18a, LSDD14, LH18, dRJL14, Ots11, PH13, Tan19, TMA+15, TRN16, TT11, YLQ+17, ZE11, ZE16, ZHPS10]. **Interactive**

[KY14, Gio14b, MMC10, TL17, KST+14b]. **interatomic** [GD14].

[OK10]. **interesting** [MN10].

**Interface** [LZ17, ABB+10, Ano10o, BPML12, BB13b, CMM14, CSPAD10, CF16, CCHL11, DNP+12, DPW16, EW14b, FLSZ13, GWM13, GLR17, HHP+16, KDP+14, MZ14, Nov17, PHA18, TM14, UTy14, WMK11, XNK+16, XD13, XHD15, zYCG+18, ZMvE+13]. **interfaces** [KRW13, KMSJ16, NPM16, PR10, RH11, ZFBR11]. **Interfacial** [HLS+17]. **Interfacing** [MHA+12]. **interference** [FNPMB10]. **interior** [HLW16]. **interlaced** [CMdB11]. **intermediate** [vMB14]. **intermetallic** [DMC+15].

**intemolecular** [KHKR14]. **internal** [BHH+10, BBH+15]. **International** [BCJ+11]. **Internet** [VDJ+11]. **Internet-based** [VDJ+11].

**interoperability** [GVPJ18]. **interoperating** [CCdC+11]. **interparticle** [QLN14]. **interpolated** [FZY13]. **interpolating** [MCV18]. **Interpolation** [JKJ+12, DG10b, GGG16, Jiw15b, PCGM14, RWKS15, Sok13, USN12, XNK+16]. **interpolation** [HLL13]. **Interpreted** [¨US18]. **intersection** [PC11].

**interval** [Zlo14].

**intramolecular** [VB19]. **intranuclear** [TB14].

**intrinsic** [Dev12, DMC+15]. **intrinsically** [CRNK12].

**Introducing** [BHS15, CXH+15, HHS+10, LM16, MDGC+12, MCAF14, dHGS11]. **Introduction** [IBP+15, Brie10, SAC+15, TKR13]. **Intrusive** [HHM+15].

**invariant** [MDHD18, QwWL+15]. **invariants** [ADdM14, DdMN16, FWZ+12, Ver16]. **inverse** [Boy15, CLI5b, KL11, MW12, MK10, MD10b, WHB16]. **inversely** [KB15a].

**inversion** [CLI5a, GWF+16, GCF+17, GST15]. **invert** [FZ16, RLM13].

**inverter** [CL16]. **investigate** [ABH+18, KFF+16, RDP14]. **investigated** [CSL+13].

**Investigating** [ARAB+17, BG14a].

**Investigation** [AM14b, CLY11, KK13, MDPTK15, MRVF13, vdS13, EGGW12, MISH11, NS11b].

**inviscid** [LSK+13, TFBW14]. **involving** [Cip13, GC13, Sar17a, Sar17b]. **ion** [BT17b, BB13b, BKN+17, CCL18, Gai17, GAB+16, JuLAM16, JGGC+11, KB14, KMD12, PCR17, PR14, SK12, SQS+16, SVG10, TXZL15]. **ion-ion** [BG14a]. **ionosphere** [Gai17]. **IONIS** [Hei12].

**Ionization** [JTT11, BPC12, BH17, Fri12]. **ionospheric** [KST+14b]. **ions** [BP12, HH11a, JTT11, KNS+17, Lit13, LB11, LB12, MICA17, MS10b, NNWS15].

**IPEC** [HB13].

**iQIST** [Hua17]. **IR** [War16]. **IR-improved** [War16].

**iron** [ALC18, BPMM14]. **irradiation** [MBRV+13, PC17]. **irregular** [BS15b, RHH12, SSS+10, SSS+18, VHP+15, vdS13].

**ISDEP** [VBC+12].

**ISICS** [Cip11, Cip13]. **ISICS2011** [Cip11].

**ISICSoo** [BPC12, BPC13].

**Ising** [LWL11, BVP10, CB15d, IZRT15, KO14b, KO16, LBP15, MH11, NHD16, SMJ17, SLZ16, SW11, SSBS15, WWVB11].

**Ising-type** [SLZ16].

**islanded** [CLH+17]. **isobaric** [VK14].

**isochronous** [CWC+17].

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Knudsen [DS13a]. Kohn [KKL+18, SCS12, SCB17b, SPSP18, zYCG+18].
Krasilnikov [Ma´z19]. Kriging [RPB+15]. Krylov
[HCSW10, BB15, BBF+10, BH11, BVSG19, CB15d, CSV+18, LHZJ10,
STK0, SPP19, YJK11, vWB10]. Kubo [CKT17]. Kutta
[FG13, KMS14, KAS12, BM13, CFMR10, DBMR18,
DIP11, DM17, Ix12, KZC+10, MIW+12, MKS10, NS15, WXL13].

L [ADH+17, Cip11]. L- [Cip11]. lab [RGG+19, NSXZ14, RGG+19]. labeling
[Kom15a]. laboratory [DMM16]. LabVIEW [CO11, Fer15]. ladder
[ABB+16]. laden [SYD17]. lag [MKS10, NS15]. Lagrange [Jiw15b].
Lagrangian [CGG+14, Ein16a, FRFH10, GAB+16, KV10b, Lan13, MIW+12,
MFH+13, iNSK+15, Sem16, UNK12]. Lagrangians [Deg15]. Laguerre
[GST17, Ter17]. Lamb [STY15, STY18]. Lamb-shift [STY15, STY18].
Lambda [Eks11]. Lambert [Yeb12]. laminar [EZL+16]. LAMMPS
[CL13, FMRP16, FPY+17, LK15, MMSF+15, MOD13, NKS15, RU12, Sva12].
Landau [AKS17, BHT19, MGRB11, MC10, RLM13, TVG15, JK13].
Landau-Transition-Matrix [BR13]. Landweber [KL11]. Lane
[CB13b, KMM13, PDRG10]. LANFOS [PCEH15]. LANFOS-H [PCEH15].
Langevin [Tan19, THDH14]. Langmuir [AAJA14]. Language
[US18, GMM18, KST14b]. LanHEP [Sen16]. Laplacian [NHS14]. LAPW
[FWZ+12]. Large
[BMC+11a, DdJC+19, DSW+15a, HKK11, JEFP14, JXTS16, KHZ+18,
PLD+13, SXW+18, SOM+13, SLZ16, TIMM13, BC10, BS15, BH11, CB15a,
CB17, CB18, Cas12, CF17, CO11, Deu16, DO14b, DML+16, ECD+10, GS15,
GHvdL11, GZL14, GMC18, GJLB12, GHdf10, GS8+16a, GAO13b, HLS12,
HC16, HLW16, JWCC17, JLD13, JOK13, KLM+16, LRW+15, LCQF18,
LSY12, LR13, LR16, LOV10, MBS+10, MAM14, MSR+17, MCNRC16,
PB16, Raw15, RLM13, SI11, SZC+13, Sh13a, SPSP18, SPP19, Tov10,
THDS16, TIM+16, VBG+10, Var16, WDL11, WLZN17, BSW12].
Large-eddy [TIMM13]. Large-scale
[BMC+11a, DdJC+19, HKK11, JEFP14, KHZ+18, PLD+13, SXW+18,
SLZ16, CB15a, CB17, CB18, Deu16, DO14b, DML+16, GS15, GHvdL11,
GHdf10, GS8+16a, GAO13b, HLS12, JOK13, LCQF18, LR13, LR16,
MBS+10, MCNRC16, RLM13, SPSP18, Tov10, THDS16, WDL11, WLZN17].
laser [BT17a, EZBA16, FZY17, GC12, GH15, HJL+14, IB11, IKS19, JTT11,
LJSW11, LHZJ15, MH12, MFS+10a, ON14, REtVH12, SZM+14, SBE+16,
SY18, TC11b, TT11, ZY15, ZZ15, ZLM12]. laser-atom [FZY17, TT11].
laser-driven [HJL+14]. laser-induced [SY18, ZLM12]. laser-plasma
[REtVH12]. lasers [FYK18]. latency [GCC+18]. laterally [EBCB17].
BGM + 14, BBH + 18, BH13, BCH13, BHJ + 15, CEZ16, CGH + 11, DDH17, DNPS13, Fen12b, FEH11, GLZ17, HEF12, KKS18, LS17b, MCW15, Mey18, Pat15, Pat17, Per14, Pik18, Sta11, YdDH + 12, dDYK + 18, vH11.

loop-corrected [BGM + 14]. Loopedia [BBH + 18]. Loophole [DMH16].

Loop-hole-free [DMH16]. Loopedia [BBH + 18]. Loophole [DMH16].


Lossy [WWHW14]. Low [BK12, KGNS10, LCY + 11, AGH + 16, BDBV12, BT17b, Fu19, GCC + 18, HYM11, Kol15, LO14, MSPD12, MCP + 11, NRSVW12, PTMPPK14, RF16, RHC15, TSIM16, TM + 16, VSG18, Wei12, Zio14, VRWS14, BH14b, MPS13, MNPF17]. Low-amplitude [BT17b].

Low-density [HYM11]. Low-dimensional [vRWS14]. Low-dissipation [Fu19]. Low-energy [LCY + 11, MSPD12, NRSVW12, BH14b].


Lower-hybrid-wave-driven [RTT + 18]. Lowest [Kol14]. LS [NCF18].

LS-STAG [NCF18]. LSQR [Wan10b]. LU [San15, WM13, ZSW + 17b].

Lugovskoy [Maz19]. Magnetic [MHHL11, VCMS + 13, BDK11, BUJ15, BMW14, CHW + 15, CFW17, CZL + 11, CHZ18, DOP17, DA16, Dua12, HSD17, HEF + 11, KB15a, KOT12, Kii10, LLQX19, LFG14, LZ17, LR13, LR16, MDW16, MJB + 10, MEG12, PBE14, PGM14, RS12, SEW12, SW14a, SEW14, SW14b, SZM + 14, SHNM11, Tau10, TG11, VPM12, YTYA17, YJK11]. magnetically [Ram12, SCM + 16]. magnetisation [ALC18]. magnetized [BOPL17, CFF19, LJ + 19, LDF + 16, MF17, MCM + 12, MAMA15, Ram10, sX14, Yan09].


Magnetohydrodynamic [MKL17, SNB11, TYH + 15, WWFT11, WAW14, WWM14, YTYA17, ZD15].


Magnet [AEKO18, BCT17, IKS19]. MAGPACK [RRCSC11, major [HFSK12].


MATHEMATICA [BKM14, AC13, AC15, AC18, Aza13, BK13b, BKK13, BK15, BK16b, CGO17, CMS17, Dep17, Eks11, FRW17, FMRP16, FK15, Feni12a, Fen16, GLMG12, HHP+14, LR18a, LR18b, MZ14, Mis12, Mis13, Naz12, Nov17, Nut14, Pat15, Pat17, Pre18, Ros16, SBQ14, TJ11, Tab16, TM14, Tos10, WL11a, Wiet15, XML16, Zit11]. Mathematica-based [BKK13, BK15, BK16b]. Mathematical [TN11, CD15]. Mathematica(R)
mediated [HLS12],

medium [IB11, PP13, SM14], Meep [OR1+10], MEKS [GLS+13], melting [YK18], membrane [CZN14, FPY+17], membranes [PDC14], memetic [VHP+15].

Memory
[MR14, BKS15, CL15b, CSV+18, DGMZ15, DKG+14, IW15, LP15, LL15, MD11a, NS11b, NFS15, OLG+16, TE18, WMRR17, WRMR19], memory-mapped [LL15], MEMPSODE [VPP+12, VHP+15], Mercedes [HDM+12, SBPN15], merge [PMMF15], merging [LTP16, VGM+15, XLX13].

Mesh
[HS14a, AWK+16, BCH11, BKPT12, EG+18, FXZ+14, GX15, HCC14, JG16, JFC12, JCL+18, KC14, KYKN15a, KYKN15b, LJWK11, LH18, LWRQ16, McM17, PZZL19, RHBH15a, RHBH15b, UBRT10, VLM11, ZD15, CZF18]. mesh-free [JCL+18, McM17], meshes [ASGLK10, AK15, FXZ+14, LA13, OCM+19, SP18b, YWX11], meshing [ZPH+15], meshless [DG10b, MM12, QLN19, SW14c, SD10b, XLL15], meson [BBC+11, CWW15, YWW13], mesoscale [HPN18, WSH+14].

Mesoscopic [SS11c, WJHW14], message [TSTT13], message-passing [TSTT13], meta [GSZ13], meta-GGA [GSZ13], Metadata [RSSH+10], Metadyn [HS16], metadynamics [BPML12, HS16], METAGUI [BPML12, GLR17], metaheuristic [CNMC10b], metal [FSJ+16, HBB+17], metallic [HKF+12, HLM16, LLHC11, ZHCR18, ZLLP17], metals [BT17a, KOK17, PSP16], metamagnetic [dSFdFF13], metamaterials [RHW+12], Metamodelling [ZKS13], metaphor [DMH16], metastability [FDWC12, JHG14], metastable [BVC13, ES16], METATOY [LHC+12], METHES [RF16].

Method
[BUJ15, EW16, GHBL18, Hes16, TGH+16, ZLL18, AM14a, AM14b, ARYT17, AS11b, ADdM16b, ASS13, ABDR17, AG12a, ACdM19, AAAAA14, BOPL17, BBL+13, BM13, BF16, BBR+17a, BK11a, BHI4b, BHI6, BW12b, BR14, BT19, BTB17b, BL18b, BS15, BH11, BM14, BCM+16, BMNS14, BPMS16, BTT12, BHND16, BENK+17, Cz18a, CL15a, CB13b, CAN11, CSP10, CZS10, CL10, CLJ12, CW13, CTL15, CW16, CS17, CSL+13, CKK+13, CB15d, CvW12a, CvW12b, Cor14, Cou13a, Cou13b, CNS+14, DZ15, DEM19, DT10, DG10b, DT11a, DM17, Den10, DKSG16, DUC+19, DA16, DMC10, DCGG13, DLF16, DFM+15, Duf16, DO14a, DO14b, EBCB+14, ELDS14, EK14, EFK+19, FGG11, FS17, Fen12b, FK12, FPMB10, FB+13, FPY+17, Fu19, FJ19, FN17, GC12, GZL14, GML15, GBP13, GA15, GA10, GCH+18, GYW+10, GB17, HE13, HV15], method [Ham11, HCH16, HLH16, HSD17, HKvH16, HDZ14, HJGL18, HHC+10, HWW12, HLW16, HM18, HI11, Ixa10, Ixa12, Jal10, Jan10, JKH14, JWCC17, JLM18, rJmYT11, JOR+12, JGAI+13, JLIW13, JCL+18, JPM12, JK13, JU17, KMS14, KK13, KU10, Kap12a, Kap12b, KC118, KKG+15, KGFS18, Ki10, KLI7, KO14a, KL11, KN13, Koh15, KDM11, KA17, KAS12, KPS15, Kra10, KZ14, KMS16, KR14, KSW12, KOK17, KSY+17, LOL+18, LLHC11, LLQX19,
method [Nis11, NMS14, OYK14, OPO11, OPSR13, OPR14, ORI10, OT11, PHA18, PSBT12, PAS11, PS14, PDRG10, PR13, PBMAD12, NDSH18, NPM16, NHSY15, NZQL14, NCB18, NS15, NAQ16].

ZLM12, ZYL+15, ZCG17, ZKS+18, ZFR18, dSD012, dSFdFF13, dSLF13, dSVLP13, dSF18, vMB14, ABC+18, AB10, BCPS11, BCP13, DET12, DG16, HLM13, KPV16. **Model-Driven** [Dan10a, Dan10b]. **Modeling** [CLW11, wH15, TJH17, AD11, BOPL17, Bar11b, BMNS14, BMZ+18, CSJ+17, CL11, CFFR15, Dan12, EZL+16, EDPZ19, EKK14, FZY17, Gai17, GGI+13, HV15, Hak16, HDF+19, HCHW11, IP14, Jab19, JGC+11, KEH12, KPA13, KM10, KRB15, KMJS16, KGNS10, Lan13, LZZL10, LHH+12b, LTL+12, MPS13, MN18, NGCI+12, OBPL19, OP12, PBF+16, PE17, Ram10, Ram12, RAV11, RTA10, SGNL17, SN16, SHL+11, Sol11, Sva12, TKP12, Uty14, VBMS17, VCD16, WGVPL17, XHLM12, ZE11, ZE16]. modelings [Hon18]. Modelling [AGB+15, CC16, HDM16, IBKK11, Ano10n, AMR+18, CdLOL19, DBD+17, HKF+12, Kra18b, MDPTK15, MRSD15, MSML10, OBH10, ORS+14, Org15, RF15, RLMGM+11, TN14, Van15]. Models [Rei11, Rei12, AS11a, AC17, AABC+13, AG12a, AH13, AliPSV15, ABH+18, AC15, AC16, AC18, BW16, BBC+13a, BR13, BHT19, BKM11, CECGS16, CZ18b, Che17, DCM+12, DNPS13, EDS14, FW11, Fil13, FD13, Fuh15, HLL13, HvWT17, HCH16, HVMR10, HKVR10, ID18, KÖG17, KO14b, KO16, KST+14b, KTA12, LLMW17, MLGVE14, MST+18, Mur14, NEW+18, NHS14, NAQ16, PS12, QA13b, RK11, RDK+17, SLZ16, SH16, SOPS12, Sus17b, TSTT13, TVZ+15, WG12, Wan16, Wei11b, XLY+15, YZ19, dRAPL11]. Modern [HdM16, BS14a, CDSG11, EDB16, BNL+13, RK11]. modes [ALS14, CS17, HSK+12]. modifications [RL10]. Modified [LYL+17, NIK+12a, ZLL18, BKN+17, DF+15, Duf16, FZY13, GZ13, Jiw15b, KMS14, LCQF18, MS15, Ras09, Ras17, SMJ17, SBvD13, XHLUF+18]. Modular [CFW17, Gpiu19, Sin11, Sin12a, DLGP10, FWS+17, KP16, KSH14, Kro16, TCK+15, Zag14]. modulated [TTG11]. modulation [Kap16, OCL+13]. module [DF11b, DGST17, GST12, LRK13, SK12]. modules [AAB+10a], moduli [Bog16]. MOLDY [ADD+11]. Molecular [AS16, DLGP10, Fil14, FFIH11, GM11, HLZ+13, LS17a, MTS11, MKB+11, Ngu17, SBPN15, SYE+18, TD17, ZS13, Zhe15, ADD+11, Bar11a, Bar12a, BBH11b, BPM12, BKS15, Bin13, BG13a, BG14a, BWPT11, BKPT12, BY13, BCG+15, BBV+16, BMDP19, CTT17, CMM14, CXH+15, Col14, DEW16, DES+11, DRR15, ESM17, FSH13, FCVH17, FRG12, FP14, Gar19, Gio14b, GLR17, GNA+15, GRR+14, GHF14, HST+11, HMY11, HXW+13, HAN+16, HBH+17, HWL+17, HVMR10, HKVR10, HM17, HDM+12, JWL13, JPH+14, JTT11, KJIS16, KST14a, KPA13, KDM11, Kon11, KKS18, KS15, KHN19, LGW13, LS12b, LHZ11, LK15, LLZ+17, LBR+18, LRR+17, MDW16, MGRB11, MM17, Min11, MSH11, NBW16, NFA+16, NB17, NPAG11, iNSK+15, OKMI12, OYK+14, PLCC12, Rap11, Rei11, Rei12, RKGC+17, SMOB19, SGM18, Sco13, SOM+13, SC16a]. molecular [SMO16b, SCM14, SCM13, SAG13, SA14, TS11, VBG+10, VK14, WJCZ18, WZHE18, WSI13, YK12, ZBG+16, ZPH+15, ZZHG18, dBC14]. molecular-continuum [NFA+16, NB17]. molecular-dynamics
[CRC+13, DNPS13, FEH11, FHH+14, HP17, HLM13, HEF12, KZ11,
LCE+13, PS12, RCD+10, Ros15, SV12]. MsSpec [SNG+11]. MsSpec-1.0
[SNG+11]. MSTor [ZMCT12, ZMPT13]. MT [HHP+14]. muffin [LZP12].
muffin-tin [LZP12].
Multi
[BFPP12, BBS14, BVP10, BMW14, CZS10, ELDS14, FBN+13, HDZ14,
IBP+15, KO13, Kom15b, KSW15, Liu14, MRK+12, MRSD15, OP12, PP13,
SW14b, SM19, SCM+18, TPC16, UBR10, ZST11, ZMvE+13, ASS13,
AZM14, BBU11, BBUY13, BBP+17a, BT17a, BT17b, BAR12b, BCH13,
BHJ+15, BJH+18, BVH15, CJW19, Cap13, CC15, CL15b, DBP+18, DKG+14,
DE13, DCVB+13, DGS+19, DO14a, Er14, FSJ+16, FHA17, DRI+16,
GBC+18, HLS+17, HZW+19, HWT10, Ike18, JK14, JXTS16, KPA13, KO12,
KO14b, Kom15a, Kom15c, KO16, LLQX19, LS12a, LH11, LQ18, LY16,
LPB15, LRK13, Mey18, MMA15, NWS15, NH16, NB17, NAQ16, Pal12,
PR14, PC11, QSC14, QwWL+15, Sch14a, SV13, SGW17, SLR+11, SC16b,
TRM+12, TD14, TDL+14, Vuk12, WSH+12, WAW14, sX14, YZWR14, Yi11,
ZAFAM16, ZMPT13, dDYK+18, ReTVH12, RiV16, FOB+15, IBP+15].
[Vuk12]. multi-baryon [DE13]. multi-center [BAR12b]. Multi-Channel
[KSW15, LLQX19]. multi-cluster
[KO12, KO13, KO14b, Kom15a, Kom15b, Kom15c, KO16].
multi-component [HLS+17]. Multi-core
[BFN+13, HWT10, LH11, TRM+12, TDL+14]. Multi-core-CPU
Multi-dimensional
[MKR+12, ASS13, BT17a, Cap13, CC15, DO14a, NAQ16, TD14].
multi-disciplinary [WSH+12]. Multi-Domain [IBP+15]. Multi-electron
[BMW14, SW14b]. multi-exponential [lR18]. multi-flexible-body
Multi-frequency [PP13, LY16, YZWR14]. MULTI-fs [ReTVH12].
multi-gluon [BBU11, BVH15]. Multi-GPU [BFPP12, BVP10, OP12,
TPC16, DCVB+13, JK14, JXTS16, LBP15, NH16, WAW14, FOB+15].
Multi-GPU-based [KO13, Kom15b]. multi-GPUs [SV13]. multi-instance
multi-layered [CL15b]. multi-level [HZW+19, IBP+15]. multi-loop
[BCH13, Mey18, dDYK+18]. multi-material [SC16b]. multi-mode
[LRK13]. multi-moment [MMA15]. multi-objective [AM14].
multi-orbital [QwWL+15, SGW17]. multi-particle
[BBB+17a, LQ18, PR14]. Multi-phase
[MRSD15, BT17b, FHA17, ZAFAM16]. Multi-physics [ZMvE+13, DRI+16].
Multi-scale
[UBR10, BJH+15, BJH+18, Sch14a]. multi-socket [TRM+12].
Multi-symplectic [CZS10, HDZ14, ZST11, CWJ19, LS12a, QSC14].
multi-user [GBC+18]. multi-zone [Yi11]. multiband [Bot12, HHC16].
multiblock [HdM16]. multibubble [WSI13]. Multicanonical
[KI11, BB13a, FLE19, GZWJ18, SI11, ZMJ13]. multichannel [GMRHRCME13, HBP14, NFI17]. Multiconfiguration
[BSGG10]. multicellular [HFOPF15]. multichannel [GMRHRCME13, HBP14, NFI17].
Multidimensional [CHA11, End11, LW14b, WW14, ZF15, ZLM12, AM17, KBSP12].
multidomain [DT11a]. multifluid [RC15]. multiframe [SGDS16].
multigrid [BOT13, FN17, TE18]. multilayered [MCWJ15, OL12, ZZHG18]. multilevel [MCWJ15, OL12, ZZHG18].
multilevel-skin [ZZHG18]. multiloop [SST11, Smi14]. multimode [Br’a15].
multiparticle [HPN18, WSH+14]. multiphase [ZLFM11, HSF+15, LOK+18, N2H4, M2H15]. multiphoton
[TC11b]. multiphysics [ZLFM11]. Multiple
[ELL+17a, Jab17, XNK+16, AKR15, BAF18, EBCB+14, GLAC13, GM18, HLZ+13, JA17, JPH+14, Kap12b, Kra18b, LWES18, STK10, SNG+11, SCMi14, TSMS10, TACAI5, VK14, Wai12, WMK11, WXW13, WJW14, WWM14, YL12, BBV10, CYN19]. multiple-histogram [VK14].
Multiple-Relaxation-Time [CYN19]. multiple-trapping [Ja17].
multiplication [GJ18a, WWR+16]. multiplicities [Wei12]. multiplicity
[Bar16]. multiplier [AQJ10, TC11a]. multiply
[BG13b, BG14a, BLG14, Bon15, Bon16, WLG+13]. multiply-charged
[BG13b, BLG14]. Multipole
[CC10b, CC12, GB11, GCH+18, Ham11, LCQF18, LCHM10, LCHM13, OMY+14, TSM16, YBK+11, YBY13, ZHPS10]. multipoles [EP112].
multiprecission [Sai13]. multirate [SEGP15]. Multiresolution
[LB10b, RHH12]. multiscale [AKH+18, C8b, HBL+13, KFS17, KK13, RLC+14, SMO16b, ZOZ13, ZGZ+16, CHZ18].
multispin [FFT+14].
multisymplectic [CWS14]. multithreaded [TV10]. multivariate
[CSR13, KPVvdH13, LR18a, LR18b, vH10]. MultivariateResidues
[LR18a, LR18b]. multivolume [SML16]. muon [NBCL18].
mouns [BCMS10]. MUPAGE [BCMS10]. Muse [Liu14]. mVMC [MMY+19].
mVMC-Open-source [MMY+19]. mxpfit [Ike18]. myFitter [Wie13].
N [CKFB12, CDT10, GBD10]. N2HDECA[Y] [EMW19]. N2HDM
[EMW19]. Nabarro [PE17]. NAMD [JPH+14, BW15, JJ15, MPB10].
nanostructures [SS11c]. nanoclusters [FSJ+16]. nanodevices [CLL16].
nanometric [ZHCR18]. nanoparticle [Bar11b, YHCS11]. nanoparticles
[CKLM10, HT12, Nov17, SWL+15]. Nanoporous [ZDD+13]. nanoribbon
[LCY+11, SWL11]. nanoribbons [GZL14, Ihn12]. nanoscale
[Dan14, Dan16, Dan17, LCH11]. Nanoscience [NSH+19]. nanoscopic
[EVB14]. nanostructured [NPM16]. nanostructures [BMC+11a, BW16,
DSS+12, DGMZ15, GTG+11, GAO13b, HHC16, MCP10, Wie18].
nanosystems [GS15]. nanotube [LCY+11, Yan11]. nanotube-nanoribbon
[LCY+11]. nanotubes [Beu11, CSL+13, HCC14, LHSL14, RM14, ZRS12].
nanowire [DJ12]. nanowires [CM15, TG11, VB11]. NASAL [PBFS+16].
NASAL-Geom [CPCDdM18]. Natural
[BHT19, OP12]. NAVier
[BKOZ16, EW14a, FZDJ17, LWJV18, MVS15, Sa116, SK15, SP18b, ZPS+18].
NBL [KHN19]. Nd [LQZ+13]. NDL [HAV+14]. NDL-v2.0 [HAV+14].
ndom [SKB10]. Ndynamics [ADdM+12b]. Near
[BKMP16, AGVP10, CZF18, DT11b, EGGW12, Faw10, Ju117, LPRPR17,
MZE13, TKL+12, Uty14, XD13, XHD15]. near-barrier [DT11b].
near-continuum [TKL+12]. near-field [CZF18, LPRPR17]. near-rigid
[Faw10]. Near-threshold [BKMP16]. near-wall [Ju117, Uty14]. nearly
[LYL+17]. nearly-adiabatic [LYL+17]. necessary [BSWC14]. neighbor
[ABRS12, HAN+16, KHN19, LYJY+10, ZZHG18]. Neighbour
[MRZ10, WR18]. Nektor [CMC+15]. neoclassical
[BSM13, HSK+12, MS14, SISW10]. Nernst [Fuh15]. Nested
[BBV+16, BH11, SEGP15]. Network
[VKLM11, VLM11, DLW+18, HH11b, ORCR17, dSLF13, ZHL11]. networks
[BHVMH15, CHDF10, CB15c, CMdB11, CF17, CLF18, HLS12, IBKK11,
Kra10, MCNRC16, NMC15, PHA18, QIC+10]. Neumann
[RC16, Jiw15b, RC13, RTA10, SP16, SN16]. Neural [ORCR17, ZHL11].
Neutral [BRL+12, AGB+15, BBH+11a, Lit13, PE15, Tic14]. neutral-particle
[Tic14]. Neutrino [BFM10, AKH12, BPMM14, BNAB11, KBHS19].
nutrino-driving [BNAB11]. neutrinos [WW15]. NEutron
[Car16, BN18, CXX+19, ECH16, KB15b, LS12b, RLS16, SEW12, SEW14,
[CWW15]. Newton [BK12, CB115d, HCSW10, YJK11, sWB10].
Newton/Yukawa [BK12]. Newtonian [BHNS17, NCB18, RJL116]. Next
[AAT+14, AC17, AMRD17, GLPQ11, PLF+17, DET12]. next-generation
[PLF+17]. Next-to-minimal [AAT+14, AC17, AMRD17, DET12].
next-to-next-to-leading [GLPQ11]. Nexus [Kro16]. NF [YE14a].
NF-package [YE14a]. NGluon [BBU11]. ngravity [CRO16]. Ni
Ninja [Per14]. NiTi [NS11b]. nitride [Yan11]. nitrogen
[CHC+11, LJSW11]. Nix [Rom15]. NLO
[BEC+14, BCG+13, BS13b, GHvSF14, Pit10]. NLS [ILsZ14]. NLSemagic
[Cap13]. NMSDECAY [DE12]. NMSSM [AM11, BGM+14, SAE+16].
NMSSMCALC [BGM+14]. NNLO [HLM17, BHZ13]. nlo-Higgs
GG16, GFJ\textsuperscript{+}14, GBJ\textsuperscript{+}15, PDL\textsuperscript{+}18, SZY\textsuperscript{+}12, SHZ13, SAY\textsuperscript{+}18, Shi16, SUS\textsuperscript{+}17a, Tom16, ZSW\textsuperscript{+}17b).

**nuclearity** [DRR16, RCCSCJ10].

**nucleation** [JJB11, RDP14].

**nuclei** [Bab14, DT11b, DML\textsuperscript{+}16, GC10, GC13, GC16, LMAB16, NPVR14, PUO14, WSI13].

**nucleon** [AHK\textsuperscript{+}12, GBD10].

**nucleus** [GC18, WR16].

**nuCraft** [WW15].

**nudged** [QDZ\textsuperscript{+}13].

**NUFFT** [Giu19].

**null** [HLW16].

**null-space** [HLW16].

**nullity** [YE14a].

**number** [ASPW13, BS11a, BS14a, BJCW13, CBGY17, CBYG18, Dem11, FP14, GP13, GBS16b, Kan18, LS15a, LNP\textsuperscript{+}17, Mis13, Sav15, SS13a, Sib17, SCM\textsuperscript{+}18, TC11a].

**numbering** [BBC\textsuperscript{+}13a].

**numbers** [BS13a, BCJW13, Nog17a, Nog17b, UO15b, YB13, ZOZ13, ZNT15].

**Numeric** [GBRB11, KCA\textsuperscript{+}15, LRW\textsuperscript{+}15].

**Numerical** [ASEA14, ACCB13, ALSW14, AD11, ACM12, AH13, ADdM\textsuperscript{+}12b, BBUY13, BCH13, BHJ\textsuperscript{+}15, BMNS14, BS12, BVH15, CMJ\textsuperscript{+}11, DG10b, DGS\textsuperscript{+}19, DR12, FGLB12, Fis12, Fuku17, GG16, GLX\textsuperscript{+}14, HKSW10, HK12, HML11, HW11, HB13, HL13, Ixa16, JL12, JML18, JPM12, JK13, JHL\textsuperscript{+}15, KFS17, KM10, Kri12, LMRC15, LD10b, LSF14, LLSZ14, MT13, MIW\textsuperscript{+}13, MFV\textsuperscript{+}10a, MC12, MM10, PBT15, PFB\textsuperscript{+}16, QwWL\textsuperscript{+}15, RC15, RAV11, RJ12, RGKR17, SW12b, VBMS17, Wie13, XJS16, XYM\textsuperscript{+}13, Ydh\textsuperscript{+}12, ZFH14, ZDWY10, ZW15, dHV12, AS11b, AB10, AGH\textsuperscript{+}16, ACM10, ACML11, AAT17, BK16a, BSK\textsuperscript{+}18, BCM\textsuperscript{+}16, BHZ\textsuperscript{+}18, CL10, CLL16, CvW12a, CvW12b, CFFR15, DMP18, DCC\textsuperscript{+}10, DCM\textsuperscript{+}12, Dat13, DS13a, DBD\textsuperscript{+}17, DN13, DM17, Den10, EZL\textsuperscript{+}16, EVB14, FSC13, Fuh15, GHvdL11, GV15, GA10, GN14, Gni11, GSKM15].

**numerical** [GM14, HAV\textsuperscript{+}14, HVMR10, HCSW10, Ixa10, JK10, JTN\textsuperscript{+}11, JWL13, Ji12, Jiw15a, Ker17, KZ11, KL17, KKL\textsuperscript{+}18, KAS12, KST\textsuperscript{+}14b, KP14, LV14, LK12, LNY\textsuperscript{+}17, LHH\textsuperscript{+}12a, MD11a, Mar15, MN16, MA11, ML16, NGCI\textsuperscript{+}12, PAS11, PMMW15, PVK\textsuperscript{+}18, PQTGS17, PO14, Pt10, PE15, PJD10, PB16, RM10a, RM10b, RLS16, Sal12, SKB10, SLY18, SL17, SH18, SW14e, SS11a, SD10b, SS13b, SK14, SST11, Smi14, SAI11, SPS18, SCG11, TCR13, TGM17, TFW14, TO10b, VLD\textsuperscript{+}12, WX11, Wu10, WW11b, XLL15, YZ16, YYWF09, YX\textsuperscript{+}15, YXT\textsuperscript{+}15, Zhi14, dB14, dDYK\textsuperscript{+}18, vMB14].

**numerically** [BMBC\textsuperscript{+}17, DGST17].

**numerics** [TK14a].

**NumExp** [HL13].

**NuSoI** [GG16].

**NVidia** [Lya15, MR14].

**NVM** [MN13].

**NWChem** [LSK\textsuperscript{+}14, VBG\textsuperscript{+}10].

**nX** [BFD\textsuperscript{+}11].

**NXSG4** [KB15b].

**Nyström** [FG13, KMS14, KAS12, WW10, YZWR14].

**Nyström-tree** [YZWR14].

**O** [ADH\textsuperscript{+}17, CjJH11, LS11, Mazi19, CKFB12, DRUE12, GGI\textsuperscript{+}13].

**Oasis** [MV15].

**Object** [CB15a, CB17, CB18, Asl14, BFD\textsuperscript{+}11, CDMCN11, CJ12, CFFR15, DM12, HHP\textsuperscript{+}16, OKM12, SL16, WP10a, Zag14, CF16, FCC15, MBRV\textsuperscript{+}13].

**Object-oriented** [CB15a, CB17, CB18, Asl14, BFD\textsuperscript{+}11, CDMCN11, CFFR15, DM12, OKM12, SL16, WP10a, Zag14].

**objective** [AZM14].

**objects** [AKKK16, CGJ14, GGF\textsuperscript{+}13, GSC\textsuperscript{+}16, JvOK17, KCS\textsuperscript{+}15, OL12, Ser10].

**oblique** [ÇOSÜ11, VDB14].

**Obrechkoff** [SS13b].

**observables**
observations [BVC13]. observations [UIY11]. obstacle [OK14]. obstacles [KL11]. obtain [CLB11, EBDM17]. obtaining [LP15, Liu13, MNPY14, MYP14]. ocean [DBLF16, DBLF16]. OCTBEC [Hoh14a]. Octree [FGC11, TE18]. Octree-based [FGC11]. ODE [HKSW10]. ODEs [KV10a, NO12]. off [HFOPF15, JCL10, JTP15, JHL15, KdMvO14, MRZ10, RV10, SMOB19, Zag14]. off-axis [JTP15]. off-lattice [HFOPF15, KdMvO14, MRZ10, RV10]. offload [BCG15]. offs [NBN14]. ohmic [KGG16, YLKN17]. oil [ZAFAM16]. OK1 [OKP10]. OK2 [OKP10]. old [TBB14]. on-axis [JTP15]. on-lattice [XLCW14]. on-the-fly [GGG16]. ONCV [SG15]. One [ADH17, CHC11, DLU15, CZD15, CR12, CvW12a, CvW12b, DDH17, Dua10, Fen12b, Fil13, FEH11, HHS12, HFC10, KKS18, KS12, Liu12, Liu13, LKT15, MCA17, MCG16, NMS14, ORS14, PLA12, QIA16, QIA17, STA18, SDL16, TL17, TACA15, TVT15, VBG15, VS19, VB19, WFW14, WPA14, WZS18, XAPK14, ZCG17, Zag14]. one-dimensional [CHC11, AG14, BDP16, CZD15, CR12, CvW12a, CvW12b, Dua10, Fil13, HHC10, KS12, MEM+11, QA13a, RtV16, Rei12, RCH16]. One-Loop [ADH17, DLU18, EGPS10, ABB14, AG14, Ano10o, BBU11, Ber16a, Ber16b, BDP16, BDV11, BHJ15, CZE16, CJE11, CR12, CvW12a, CvW12b, CGH11, DDH17, Dua10, Fen12b, Fil13, FEH11, HLS12, HEF12, HHC10, JWC18, KKS18, KS12, Liu11, Liu13, LKT15, MCA17, MP11, MEM+11, OALES11, Pat15, Pat17, Per14, QA13a, RtV16, RSA14, Rei12, RCH16, RGKR17, TD15, Ter17, WHG19, vH11]. oneparticle [TD14, WHG19]. one-way [OALES11, Ter17]. OneLOop [vH11]. onetep [BDPM15]. Onia [Sha13b, Sha16]. online [HDF19, Mis13, FR14, TDAdSS11]. only [Sta14]. Open [BCP+16, CDR+15, DBLF16, JWC18, MM+19, SH18, WGG16, AZ17a, AZ17b, AFZ17, AFZ18, CMC+15, CLJ12, CFW17, CCHL11, Dan11, Dat13, DBP+18, FAW10, FJK17, FLW17, HSF15, HKvH16, HWM15, Hu17, JNN12, JNN13, JMCG17, KDM17, KPP17, KSH14, KPOR18, LPC15, LIZ1a, LIZ1b, LZ12, LSN13, MZE13, MVS15, MGFRG12, NMS14, NGCF12, ORS14, PLCC12, QIA16, QIA17, STA18, SV14, SC16a, SPA17, SAHP15, SDL16, TL17, TACA15, TVT16, VBG10, VS19, VB19, WFW14, WPA14, WZS18, XAPK14, ZCG17, Zag14]. open-shell [FAW10]. Open-source [BCP+16, CDR+15, DBLF16, AZ17a, AZ17b, AFZ17, AFZ18, CMC+15, CFW17, Dan11, DBP+18, FAw10, FJK17, FLW17, HSF15, HKvH16, HWM15, Hu17, JNN12, JNN13, JMCG17, KDM17, KPP17, KSH14, LPC15, LIZ1a, LIZ1b, LZ12, MZE13, MGFRG12, NGCF12, SC16a, SPA17, SAHP15, TACA15, VBG10, VB19, WPA14, WZS18, XAPK14]. OpenACC [GM18, HTJ16, Kom15c]. OpenCL [BLPP13, BWH12, BBH12, CP15a, HD11, KM10, MAI1H14, ON12, RBB15, TKP15]. OpenFOAM [CL13, DBMR18, LBR18, LNSD15, MTE17, SSX14, WBS18, ZCG17]. Opening [JWC18]. OpenMP [BCFR15]. OPENMP [OKM12, CBYG18, GSMK17, KT10, LYSS16, SSB16, YHL11, YSVM16, YSMA17]. OpenMP/MPI [LYSS16, SSB16]. OpenPhase [TSK17]. openPSTD


parabolic
[AAD13, BB10, GN14, HC16, HC17, NO14, OAKS11, PR13, RS12, TKZ18].

Paradeisos [JWM+18]. paradigm [CKhN11]. Parallel
[APC+14, Bab14, BC11, CLH+17, CL15b, CRA10, EDPZ19, EKDDG15, FFT+14, GGI+13, GFM+17, GSKM17, GCH+18, HvA+13, HCSW10, JKIS16, KPPC13, LBM+14, LKL11, LT15, Mau16, NCHN15, NZL14, PIH11, QLE16, RRCSCl0, RD10, SD15, TSK+17, TSTT13, US16, VHP+15, WC10, WYH19, YRR13, ZPH+15, ZHC16, ART17, AL17, BHC+11b, BS13a, BS14a, BBP+17, BHS18, BJCW13, Boe14, BCM+16, BVSG19, BHND16, BENK+17, CCLL18, CHNS18, CPR12, CUL+17, CDR+15, DBDP12, DN18, DSS+12, DRUE12, Fun19, FZ16, FZY17, GS15, Gai17, GP13, GWF+16, GS17b, GS17a, GD14, GB14, GZWJ18, GX15, GRLS18, HAV+14, HFOPF15, HZW+19, HPN18, HHB+17, HCHW11, JEFP14, JHL+15, KHBS19, KÖG17, KHZ+18, KD17, KBB+17, LAA+10, LSG+12, LHH+12b, LHH+12a, LS12b, LH11, LWC14, LW16, MDW16, MIW+13, MM17, MCA17, MSI+10, MGB18, MGR16, NÖR15]. parallel
[NFA+16, NPAG11, Ngu17, NM14, NFS15, OC5F10, ORS+14, PDC14, PGO17, QL10, Qia17, RJLL16, RFSF18, RBB15, SL16, SSF+17, Sch18, SDF15, Sh13a, SOM+13, SC16b, SOJ14, Ste17, SMGK14, Str15, SPSP18, Sus17b, SSM+17, TTT16, VKP14, WML11, WAHL13, WSH+12, WC15, WRV11L15, YHL11, YLQ+17, YL12, YBY13, Z14, ZAFAM16, ZSW+17b, ZMJ13]. parallel-adaptive [GX15]. Parallelisation [MFH+13, Roh16, SCC+12]. Parallelised [FKH15]. parallelism [BS14a, BKIS15, MDGC+12, TGH+16]. parallelizable [SM14]. Parallelization
[HBE10, MHI2, ASPW13, BW12a, CWT+17, DKG+14, DO14a, GLC13, GIu19, JFC12, KEH12, KSY17, LKM+16, LW14a, ML17, OLG+16, PMS+15, RGH10, SCB+17a, SS18, THDS16, TE18]. Parallelizable [STI11]. parallelized [GBJ11, HHS+10, OKM12, TKL+12]. Parallelizing [TD11].

Parameter
[DM18, MAN16, Ber16a, Ber16b, BHVM15, BMF10, Che17, GCVA14b, JW13, LAS+17, LHL11, MKR+12, MD10b, PM13, PIH11, YAM16].

parameter-free [PIH11]. parameterization [AAN12, BKHR14].

parameterized [KL14]. parameters [ÇÖSÜ11, HM12e, KPV16, MDP+17, MPS13, OO15b, PG10, RKL14, SZM+14, WDR16].

[DS15, LKW11]. PARPLE [Str15]. Parr [KIS12, SS10a]. Parrinello
[VCMS+13]. Parsek2D [IBP+15]. Parsek2D-MLMD [IBP+15]. Part
[ALS16, Dan10a, Dan10b]. PArTHENoPE [CdSM+18]. partial
[DHJ13, FBBH17, GCVA14b, HK15, Jiw15b, JK13, MJB+10, SGDS16].
partially [McM17]. participating [CAN11]. Particle
[KDP+14, BOPL17, BJM15, BKPT12, CBAM12, CDR+15, DS11a, FHTO17, GLKG12, GRLS18, HPKF15, HZW+16, JBKM15, KS16a, KKK+17, LBM+14, MDPTK15, NSHY15, QL10, US18, VGM+15, AM14a, ASPW13, AGMS15, ABCM14, AGB+15, ABRS12, BCH11, BBP+17, BBH+17, BHNS17, BS15b, BE14, BTL+17, BCDP18, BY17, CATK11, CPW17, CC14, CC15, CSJ+17, CL11, CSSB15, CFF19, DCM+12, DET12, DGPW11, DF14, DBP+18, Dev12, DCVB+13, DCGG13, ENEO15, EKO16, EKK14, EW14b, Evs14, FLW17, FJ19, FN17, GWF+16, GKM10, GNS17, GAHP15, GD14, GH15, HBE10, HKJ+12, HAK+14, HCSW10, JXTS16, KB15a, KRK16, KG+15, KPA+19, KKH+11, KvdO11, KK17, KPPC13, LJE11, Liu11, Liu13, LOC+18, LQ18, LTP16, Mag18, MDPTTC17, MKL14, MKU+12, MF17, MTO15, Mem11, MEM+11, MBGK11, MGK13, MAM14, MTO15]. particle
[MNC15, Mül14c, NFS15, OBPL19, OCM+19, PR14, PMMF15, PG17, PBS+17, QLN14, RKVL14, RAV11, RH17, RTA10, SSS+11, Sch14a, SS14, SWL+15, Sie16, SN16, SM11, SSP16, SKK17, Sok13, SYE+18, SMCB+15, SMGK14, SBL16, TK14a, Tau10, Tic14, TdAdS11, Uw12, VGP18, VB19, VMFS16, WHG+19, WRSF15, WKS+11, WX13, WX14, WWC+16, WLQ+17, WN10, Wei12, WSH+14, WRR18, XLX13, YZZ+17, YLQ+17, YLKN17, ZSW+17a, ZLFM11, CDBM16, CHZ18, DS14, FJ19, IBP+15, KC18, LKA+16, PE17, PMMF15, iSSMI11, SVG10, SBE+16, VLL+17]. Particle-based [HPKF15, WSH+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, CC14, CC15, DP+18, KKG+15, KKH+11, LJE11, MKL17, MKU+12, MEM+11, MTO15, OBPL19, QL10, RKVL14, SSS+11, SKK17, Sok13, VMFS16, WWC+16, WN10, IBP+15, LKA+16, VLL+17, CDBM16, CHZ18, DS14, KC18, PMMF15, SVG10, SBE+16]. particle-mesh [BCH11]. ParticleRecognition [Nov17]. particles [AFIS12, CHNS18, ES16, EBCB+14, EGGW12, GBJ+15, Gw12, HL18, MDPTK15, MMT+11, PCGM14, RC18, SKK11, TJH17, TD17, Ume18, VC10, ZHCR18]. particulate [ZLFM11]. partition
[HCH16, LKL11, Lec18, RMC16, ZMCT12]. partitioned
[BY17, EPP12, FZ16, KZC+10, MKS10, WXL3]. partitioning [HJH17]. partly [KH12]. Part [ABH+19]. Parton
[CGO17, BCH17, CUL+17, SZY+12, SYZ+13, War16, ZYL+15, vH18]. parton-interaction [CUL+17]. parton-level [vH18]. parts
[CGSB18, FBG10, OGU14, OOG15a]. patterns [LSYZ12, MSTD12, WS11a]. Pauli [Bad11]. PAW [RGCT16, SHW18, THJ+10]. PBSA
phenomenological [BNV18]. phenomenology
[ACD+14b, ABH+18, BDDM18, BSW12, CFS13, LCE+13]. PHI
[BF6+11, RJKC16, CGSB18, Lya15, MSS+14, SBE+16]. phone [Sal12].
Phonon [CP15b, Kon11, Sco13, BW16, CTT17, CCXC15, CGB14, KA17,
Liu15a, NGM+10, PMVG16, ZZ17b, ZZ17b]. phonons
[CVK+17, LCKM14, WCL14]. PhonTS [CP15b]. photoelastic [Wit14].
Photoelectron [MB16, Jab19]. photoionization [Hei12, HH11a, LH11].
photons [CMJ+11, DKT14, HEPW13, LLE+18, OK18, SMCB+15, Tic10,
VDJ+11, ZLM12]. photonic-crystal [HWCH11]. photos [LN16]. photorefractive [Zi64]. PHOTOS
[DPW16]. photovoltaic [CLH+17, RF15]. Phys
[AZ17a, Ber16a, ERS10c, K15a, Kra18a, LR16, Nat10, Ras17, RC16,
RHH15a, SGM11a, Sco13, SIMG14, YQM14, ZTG14]. Physalis [Sie16].
physical [AABC+13, Che17, LCH11, MD11a, MDPTTC17, RRVL14, Si18,
Sm14, ZF15]. Physicist [Hah12]. Physics [AAA+16, Ano10a, Ano11b,
Ano12a, Ano13a, Ano15a, Ano16a, CXG+19, DS13c, Ma219, MLK+19,
Ram10, US18, Wu10, ADF+15, Ano10n, AM10, AM11, BBB+18, BDKS10,
BCP13, CB15a, CB17, CB18, CPW17, Che11, CKhN11, GNPW11, DNP+12,
DPW16, Des16, DDK+15, ELL+17a, DRI+16, Hon18, JPCG15, JEC+12,
KV10a, LPBH11, MUI+14, ONS+15, PBL+18, QGLP13, Sh13b, Sha16,
SLR+11, Veh12, Wie15, YLKN17, ZWLG17, ZMe+13]. Physics-oriented
[CXG+19]. PI [CMC14]. PIC [FK12, GV15, HTJ+16, KS16b, LEX+17,
LTP16, SBI16, VV18, VGM+15, YXM+13, YXD+15]. PIC/MC/Valos
piecewise-linearized [HI11]. PIMC [ZBG+16]. pinning [HBS+11, JW13].
pipes [Qia16]. pipeline [ECD+10, GCC+18]. pipelines [FWS+17, MS1+10].
pipes [DMC10]. PISO [SQA+15]. PISO-like [SQA+15]. Pitaevskii
[ABB13, AD14, AD15, ABDR17, CR13, JCL+18, KYSV+15, LBB+16,
LYS+16, MGL13, MGL16, SSB+16, VDAH16, VVB+12, YSV+16,
[NDSH18]. placement [NZQL14]. planar
[Aza13, BP12, BH13, MTE17, XD13]. Planck
[BMBC+17, Fuh15, JSLM16, KBSP12, PG17, SLEF17]. Plane
[MBF+10, AM14b, ACDD14, DKSG16, GMF+17, HK15, JCW+13,
JGL+13, KAW+10, LT15, MED11, MS11, PDC14]. Plane-wave
[MBF+10, LT15, MED11]. planet [HTT13, HTT14]. planewave
[CSPAD10, BPMAD12]. planning [CLH+17]. Plasma
[KC18, ZCC19, AAA14, BMU11, BRL12, BT17b, CLW11, CGSB18, CHH+11,
DBP+18, Evi14, FRFH10, GBSY18, HKF+12, HO13, HBP14, Hons10, Hon18,
Hsu11b, KYKN15a, KYKN15b, KTE+12, KMD12, KM17, KRB15, KSY+13,
LOL+18, LDR+17, LHH+12b, LHH+12a, LJ+19, LDF+16, MPS13,
MLGVE14, MKU+12, MCM+12, ML14, MN18, MMA15, MSM+11, NNWS15,
OBPL19, PYW\textsuperscript{+14}, PBD\textsuperscript{+15}, PDJ10, Ram10, REtVH12, SCB\textsuperscript{+17a}, SCB\textsuperscript{+19}, SLR\textsuperscript{+11}, SLEF17, SBE\textsuperscript{+16}, THDH14, sX14, XYM\textsuperscript{+13}, Yan09, ZFR18.

**Plasma-Material** [KC18]. plasmas

[BSM13, BT17a, BDBV12, BB13b, CHH\textsuperscript{+11}, CFF19, DS11b, DOP17, FR15, GB14, HKJ\textsuperscript{+12}, HAK\textsuperscript{+14}, KGG\textsuperscript{+16}, LXR\textsuperscript{+18}, LH11, LRK13, MF17, OILK17, PMS\textsuperscript{+17}, PBL\textsuperscript{+18}, RF16, RTT\textsuperscript{+18}, SS14, SCM\textsuperscript{+16}, VCC\textsuperscript{+12}, VV18].

plasmonic [HT12, SVGS18]. Plasmonics [WTH15].

plate [TKL\textsuperscript{+12}].

platelet [ZZG\textsuperscript{+16}]. platform [AABC\textsuperscript{+13}, AMR\textsuperscript{+18}, CPW17, HTJ\textsuperscript{+16}, LWJV18, RDP14, Sal12, SJY18, ZZH\textsuperscript{+16}]. platforms [LHZ11, PNL13, TKP15]. PLATYPUS [DT11b].

Plesset [KK14a, KBB\textsuperscript{+17}]. plot [BGH\textsuperscript{+18}, Liu15b]. plugin [SBB\textsuperscript{+17}]. PLUMED [Gio14b, TBB\textsuperscript{+14}]. PLUMED-GUI [Gio14b]. plus [SCM\textsuperscript{+18}]. PML [DV11].

Poincaré [MZE13]. point [BMU11, BH13, BMZ\textsuperscript{+18}, CS10, CH11b, DG10b, DMC\textsuperscript{+15}, KK16a, KCN18, MDGC\textsuperscript{+12}, NFI17, Nik12b, PPY14, PDL\textsuperscript{+18}, Pna11, SGMM11a, SGMM11b, TTG11, dSFdFF13].

point-cloud [KCN18]. point-transition [NFI17]. point-wise [PDL\textsuperscript{+18}]. points [Fis12, GVR19, NO12]. Poisson [CM14a, RC16, BCDP18, Bot13, BC11, CDBM16, CCL18, CRLS18, CB16b, CHZ18, Dua10, DGG13, Exl17, GBN17, GJ13, HCSW10, JLW13, LCHM10, LCHM13, LCR1L0, Miy15, Qia16, Qia17, RC13, VLPPM14, ZPvR16]. polar [CZL\textsuperscript{+11}, WCL14]. polarimetry [FBHB17]. polariton [VBMS17].

Polaritonic [KAvdL11]. polarization [AKZ\textsuperscript{+13}, CAGL13, Den10, MCP10]. polarized [AFIS12]. pole [ASEA14, AMRdA17, PDL\textsuperscript{+18}]. poles [SAS11].

political [Cho11]. pollution [MSML10]. POLYANA [DRR15].

Polycrystalline [KB15b, EBCBG17]. polydisperse [OL12].


polymers [AMJ18, BJ11, GJB11, HP11, MJBI11, RV10, VB11]. Polynomial [IU13, KP12a, CB13b, GDB10, GLX\textsuperscript{+14}, HKZN17, Jal10, sL10, MCL\textsuperscript{+17}, OCM\textsuperscript{+19}, Pos19, UNK12]. polynomials [ACDdM15, BDJS18, GST17, SPS10, WISA11]. polystyrene [RV11].

polyurethane [KDM17]. pool [BKS15]. Pople [KS12, SS10a]. population [BBW\textsuperscript{+17}, VPP\textsuperscript{+12}, WRB11, YH15]. population-based [VPP\textsuperscript{+12}]. populations [FSJ\textsuperscript{+16}, HOFP15]. Pore [DADS11, OP12]. pore-scale [OP12]. porous [CTL15, HZW\textsuperscript{+19}, HSF\textsuperscript{+15}, MPM14, OP12, SM14, vMB14]. portable [CDGS11, HTJ\textsuperscript{+16}, RDC\textsuperscript{+18}, RBG\textsuperscript{+19}, SGM18, SS13a, VLL\textsuperscript{+17}, dBC14].

porting [HD11]. posed [LLP15]. Positive [Has11, XZF12, SmdONF14]. Positivity [SP18b, dTOV18]. Positivity-preserving [SP18b, dTOV18]. positron [GGGH14, Gec18, Kol15, SMOB19]. POSMat [MCY\textsuperscript{+16}]. possible [ASTT16]. post [LAA\textsuperscript{+10}]. post-processing [LAA\textsuperscript{+10}]. posteriori [CLL16]. Potential [MCY\textsuperscript{+16}, AM14b, BBF\textsuperscript{+10}, BNAB11, DBDP12, DR12, FMRP16, FZY13, FPY\textsuperscript{+17}, GC10, GC13, GC16, GC18].
GB11, HSF+19, JH15, LCQF18, LWES18, LRR+17, MC16, MEG12, MAM14, ORCR17, PBMD12, PH11, PB16, RS12, RFPM+17, SGDS16, TM14, WZHE18, Wit14, XNK+16, XD13, XHD15, ZHCR18, ZMPT13, ZFBR11. potentials [BNV18, BL14, BY13, BSWC14, DT18, DHR14, Erm18, FCVH17, GH11, GD14, HLZ+13, KK14b, KHH14, KHN19, Ngu17, OPO+11, OPSR13, ORCR17, PBMAD12, PH11, PB16, RS12, RFPM+17, SGDS16, TM14, WZHE18, Wit14, XNK+16, XD13, XHD15, ZHCR18, ZMPT13, ZFBR11].


POTHEA [GCVA14b]. POTLIB2Math [TM14]. Potts [DG16, Boe14, FDWC12, KO13, KO14b, KO16, MEG12, NCHN15, TD11, XZF12, dSLF13]. Power [ZLL18, CC10a, CHC+11, EZBA16, SB11, SW12b, UW12, WWC+16, WCT11].

POTHEA [GCVA14b]. POTLIB2Math [TM14]. Potts [DG16, Boe14, FDWC12, KO13, KO14b, KO16, MEG12, NCHN15, TD11, XZF12, dSLF13]. Power [ZLL18, CC10a, CHC+11, EZBA16, SB11, SW12b, UW12, WWC+16, WCT11].

POTHEA [GCVA14b]. POTLIB2Math [TM14]. Potts [DG16, Boe14, FDWC12, KO13, KO14b, KO16, MEG12, NCHN15, TD11, XZF12, dSLF13]. Power [ZLL18, CC10a, CHC+11, EZBA16, SB11, SW12b, UW12, WWC+16, WCT11].
[AABC+13, AG12a, BCDP18, CCLL18, CAN11, CCHL11, CS10, DMP18, Des16, DCU+19, DB13, DS15, FGR14, GHvdL11, GMC18, GN14, GCHL15, HKSW10, Ixa16, Jan10, JWM+18, JOR+12, KV10a, KBSP12, KAS12, KL14, LMRC15, LV0, LHHZ10, LWL12, LHC+13, LCFQ18, LW14b, LG+17, LR13, LR16, MCWJ15, ÖY13, PS14, PS11, SKFP16, SS13b, SK14, SMCB+15, SS10b, TFWB14, TACA15, TVT+16, VSO+13, WFD14, ZHSL13, ZWLZ17, ZX10, ZLL13, ZNT15, vRWS14, vWB10]. procedure

[AKS17, BW16, BSWC14, CCLL18, KMD12, KM17, KSW12, RC18, TIMM13]. procedures

[Dua10, FG13]. Process

[HDZ14]. Process

[BS11, BS13a, BB13a, CGV13, DHR14, GBS16b, LSDD14, NS10, VPM16, AC13, AM10, AM11, Arb2, Asi10, AZ17a, AZ17b, AKV18, BGM+14, BF16, BBPS14, BH14b, BF+11, Bog16, CKLM10, CDTV10, CH11a, CATK11, CXH+15, Cip11, Cip13, CC13, CRNK12, CM14b, CO11, Dan11, Dat13, DEMM19, DDKM15, Dev12, DKG+14, FMRP16, Fer15, FCCFR18, Fis11, FEH11, Fri12, Gao13a, GLS+13, GCV14a, GCV14b, GNT17, HSF+19, HLM13, HEF12, HS+10, JPSS10, Jia18, KKS18, KNS+17, KQ13, Kol14, Kra11, LHC+12, LZZ11, MCV18, MUC18, MCA17, MPS13, MWL+10, ME18, MVN13, MGB18, MBGK11, MSN11, NGG+13, NGM+10, ON14, OKM12, dRJL14, PCR17, PSL+17, P12, Pos18, RDP14, RFP+17, SYZ+12, Sui10, Sar17b, SS+10, SSG+18, SBB13, SDM+12, SDS+17, STY15, STY18]. program

[STM+14, SS10a, SLQP17, SSS+13, TVZ+15, TS11, UW12, Ver16, XMLC16, YLTS16, ZF16, ZBG+16, ZK+15, ZY15, ZSW+17a, ZMCT12, ZZD15, ZZ17b, ZHL11, Zio13, ZUT13, dB14]. programmable [Rap11]. programme

[LTP+17]. programming

[BY17, EGT+18, GRTZ10, JT+17, LSYZ12, SV14, iSYS12, TSTT13, VvVA+11b, VvVA+11a, WMK11, YHL11]. programs

[ABB+14, Ano10o, AC16, Bjö11, CL15b, HD11, JCL10, KO14b, Kom15c, KO16, KPST15, KYSV+15, LCJ10, LBB+16, LYS+16, SSB+16, VVB+12, YSVM+16, YSM+17]. project
Q [SKB10, Wan10b]. Q2DTor [FCCTFR18]. QBH [Gin10]. QCD
[AC15, AC16, AC18, BLPP13, BBUY13, BK13b, BCS10, BBC1+11, BCDI12,
BS1+3b, Bot11, CB13a, CDS1+13b, CBB1+10, FKL13, GM18, HKK11, JPSS10,
KP12a, Kan18, LCL1+11, LS13, MWL1+10, NIK1+12a, NS10, STK10, SV13,
TSK10, WL11a, War16]. QCDLoop [CEZ16]. QCDMAPT [NS10, NS11a].
QCDMAPT_F [NS11a]. QCDNUM [Bot11]. Qcompiler [CW13].
QDENSITY [Tab16]. QDENSITY/QCWAVE [Tab16]. QE [BCR14]. QEDMOD
[STY15, STY18]. QEDv2 [SV14, Vuk12]. QIST [HWM1+15]. QLM [Kri12].
QM [MMSF1+15]. QME [KPK17]. QMM [MMSF1+15]. QMEQ [KPK17]. QMMMW
[MMSF1+15]. Qprop [MB16]. QQbar [BKMP16]. QRAP [SKB10].
QSATS [Hin11]. QSWalk [FRW17]. QSWalk.jl [GMO19].
Quadrature [SPSP18, AG12b, AAT17, BK12, JPM12, Ji15b, MSR10,
MN10, PFFK19, PTS12, Sch14b, Shi16, PSP16]. Quadrature-based
[BK12, PFFK19]. quadratures [PPY14]. quadric
[ASPDL1+16, DSPJ10, GSB1+14]. quadrilateral [LWRQ16]. quadrupole
[TUY15]. quadtree [TE18]. quadtree/octree [TE18]. quality [SZC1+13].
quantiﬁcation [CNS1+14, KZ14, OO15b, OO15a]. quantitative
[BHH1+10, BBH1+15, CSC11, LN16, SSM1+17]. quantities
[KFT1+17, LCH11, WHG1+19]. quantity [CLH1+17]. quantization [Zit11].
Quantum [BDK11, BG11, CW13, DSW15b, DS13b, FGGM11, GRTZ10,
KYM1+17, LCH11, LW13, ON11, PNL13, TTS11, ZZD15, ACTP15, AK13b,
Aza13, BBW11, BMW14, BBC1+13b, BMNS14, BAF18, BVSG19, BS12, CZ17,
CZ18a, CL10, CK12, CB16a, Dat13, Den10, DHR14, DMM14, EY11, FRW17,
FUSH14, FVH18, FE11, FLW17, Fri14b, GWL1+17, GZL14, GMO19, GM16,
GH15, GWG1+11, HWG13, Hin11, HRC11, Hoh14a, HWM1+15, Hua17, Hin12,
ID18, IO16, IW15, JWCl8, JNN12, JNN13, JMG1+17, JDG12, KSL1+11,
KPP1+17, KPOR18, Kro16, LKM1+16, LV13, LW11, LW11, LHC14, IW16, Lut15,
LJB1+16, Men11, MNW1+17, Mis12, Mis13, MKV11, MBFD12, NEW1+18,
Nog17a, Nog17b, NVW1+13, OBH10, ORCR17, dIRJL14, PFA1+15, PBS1+17,
PKR16, R10, RK11, RPL1+14, RC11, Sai13, SV14, Sam15, SGAA18, SL17].
quantum [SH18, SZ15, SKF16, SPMM11, SOM1+13, SGW17, SH16,
SZM1+14, Sou14, SCG11, SKSK13, S118, TJD11, Tab16, TTS11, Vuk12,
WF14, Wan10b, WC10, WM13, WPAV14, YCO15, ZHC16, vWB10,
BKC1+17, GSZ13, KST14a, MMSF1+15, RF10, YKS11].
QuantumOptics.jl [KPOR18]. Quark [BBB1+15, ARAB1+17, ACD1+14a,
BG14b, CCN17, Gaol3a, HLM13, KKK1+15, SS12]. quarkonium
[Sha13b, Shal6, WW14]. quarks [ALL1+11, BKP16, KP12a]. quartic
[KVW11]. Quasi [JLA1+14, BCT17, CJIH11, CHC1+11, GZ17, HDZ14,
KFS17, LKA1+16, LB13, NJS17, dIRL11, PE15, VB19]. quasi-bound [LB13].
quasi-cylindrical [LKA1+16]. quasi-Degasperis [HDZ14]. quasi-harmonic
[dIRL11]. quasi-incompressible [GZ17]. quasi-Magnus [BCT17].
Quasi-Monte [JLA1+14]. quasi-neutral [PE15]. quasi-one-dimensional
GYW  

Erm18, Fri12, GM11, GTS14, GBJ+10, GBJ+12, GBJ+13, GFJ+14, GBJ+15, GYW+10, HH11a, JGB+13, KHB14, KKG+15, KNS+17, KPS15, KMA+12, LWES18, MDHD18, MCA17, MF17, NGG+13, NPVR14, QYM11, QA13a, SZY+12, Sar17a, SQS+16, SS11a, SLEF17, XYM+13, ZD15, dRM18.

relativity [MG15a, Mü11a, Bre10, GLMG12]. Relaxation [CVN19, BSM13, BPP11, BPMS16, Eba13, FN17, KS15, MKB+11, SW12b, XHLUF18].


Removal [BCH11, DF14]. renormalisation [Fon12, Roh16].

Renormalization [LSSW14, FSC13, HB12, KK16b, NBN+14, PO14, RGH10, Sta11, Trö11, Ver16, WPAV14, LSR+17]. renormalized [FHN+14, GZL14]. reorthogonalization [JK13]. repeated [OK14].

replacement [YZCS18]. replica [Boe18, GXF+15, GJB11, HIO16, IFOI18, JJ15, LRC+11, LK15, UO15b, UO15a]. replica-exchange [Boe18, GJB11, HIO16, IFOI18, UO15b, UO15a]. Reply [MLK+19].


requiring [Fer15]. rescaling [Odr11]. research [GBS+16a, LHC+12, LYJ10, PFA+15, PYW+14]. reservoir [ZAF16].


resonators [WX11]. resources [CCdC+11]. respect [GCVA14b].


reweighting [BMH17, LS13, Sin11, Sin12a]. Reynolds [SCM+18].

re zoning [LJWK11, LJZ+18]. RF [DFM+15, Duf16, AAJA14]. RF-MEAM [DFM+15, Duf16]. RG [NDSH18]. RGEs [LS17b]. RGsearch [Ver16].

RHEED [Dan10a, Dan10b, Dan11, Dan14, Dan16, Dan17].

rhoCentralRffoam [MTE17]. rhombohedral [WWL11]. ribbed [JU17].

ribosome [MTS11]. Riccati [HI11, LD10b]. Richards [BALV16, ORS+14].
RichardsFoam [Org15], RichardsFoam2 [Org15], Richardson [SPP19], Riemann [FJK+17], Riesz [MDHD18], right [REBS16, STK10, TKS10],
right-hand [STK10, TKS10], Rigid [NPAG11, Faw10, MNV13, SA14, Van15], rigid-molecular [SA14],
Rigorous [FNPMB10, BDT15, CZL+11, NM14], ring [SAG13, WJHW14],
rings [Pos19, Pos19], ris [NGG+13, EJG+19], Rivet [BBG+13], RKN [Wu10, Bla15, FLW10, FMW10, LWYW11, YWYF09], RKN-type [Wu10, FMW10, YWYF09], RIW [MC12], RMHD [Mar15],
RNGAVXLIB [GBS16b], RNGSSELIB [BS11, BS13a], Robin [RTA10, SN16], Robust [CS17, GN14, ACdS13, CPV13, Den10, TZM17, dRL11], Roe [TCP13], role [BNAB11, GAHP15, Has11, HH11b, PDJ10], rolled [NJS17], rolled-up [NJS17], rolling [NDSH18], roof [RLL12], roofline [KKP11], ROOT [Ano11o, Car10a, Car10b, SS18, ZHL11],
Roothaan [BMW14, SEW14, SEW14, SW13], rootless [GBC+18], roots [Zou18], Rosenberg [GB17], rotating [JWC13, LCCCI1, TZM17], rotation [BM13, VDAH16], Rotational [AS11a, KSW12, CATK11], rotationally [HC17, QwWL+15], rotations [OML11, PUO14], Round [GCH+18], rotors [ZBG+16], rough [EBCB+14, KC14, SKML11], roughened [LY11],
roughness [NEW+18], round [JCL10], round-off [JCL10], roundabout [wH15], route [CMR17, SDL+16, mZXL15], routine [RM10b, WPD+15],
rovibrational [CNMC10a, CNMC10b], RPA [CCGC13, DSW+15a], RPIM [DG10b], RPMDrate [SAG13], RPYFMM [GCH+18], Rubik [CD12],
rules [Nog17a, Nog17b, Sem16, WL11a], run [GHdF10], runaway [LSF14], RunDec [HS18], rung [DSW+15a], Runge [BM13, CFMR10, DBMR18, DIP11, DM17, FG13, Ixa12, KMS14, KZC+10, Kas12, MIW+12, KMS10, NS15, WXL13, WW10, YZWR14],
running [CDS13a, KPV16, SS12], Runtime [US18], RWG [ZDWY10], Rydberg [SPA17], Rys [AG12b, Sch14b],
S [BL18a, Ma19, BFD+11], S/PHI/nX [BFD+11], SaaS [VPVMVH+17],
SADE [FF11], SAFT [ESEM17], SAFT- [ESEM17], Sailfish [JK14],
SALMON [NSH+19], Salpeter [GGG16, GVS+15, SAW18], sample [MP11], sampled [ME18], samples [MPSV15], Sampling
[BBV+16, Hal17, KBT+14, RPB+15, BMF10, Boe18, CND11, FLE19, GM14, IIO16, IFO18, KCN18, KB17, KI11, KS16b, KSW15, KS15, LWL12, PPS10, RLBC+14, SSBS15, TBZ12, WHL+12, Wil15, XLL15, YK10, YL12, ZF15],
SANC [AAB+10a], sandpile [AS11a], Sar [TU14], SARAH [DNS13, Sta13, Sta14], Sassenca [LS12b], SASSIE [CRNK12],
satisfactory [DGST17], SATLAS [GdGB+18], saturated [JHJG14], saw
[BBC+13a], SAWdoubler [SBB13], Saxon [DT18, MAM14], Sb [AM14b],
SbNCa [BKA+14], SC-NBL [KHN19], Scala [Pos19], Scalability
[ZZG+16, APC+14, SCM13, VV18], Scalable
[ASA18, AIG16, NSH+19, BVC13, BY17, BHND16, BENK+17, DHJ13,
DG10c, FWS+17, GGI+13, GP13, JPH+14, KC18, MTM13, VBG+10.

**scalar** [AHK+12, BMS+16, CEZ16, LZZL10, PQTGS17, SAHP15, vH11].

**scale** [BMC+11a, BC10, DdJC+19, Bis15, BHJ+15, BHJ+18, BAF18, BY17, CB15a, CB17, CB18, DSW+15a, Deu16, DADS11, DO14b, DML+16, GSI5, GHvdL11, GZL14, GhDf10, GBS+16a, GA013b, HLS12, HZL+17, HKK11, JEPF14, JXTS16, JWC17, JOK13, KhZ+18, LCQ18, LR13, LR16, MBS+10, MCNRC16, ORS+14, OP12, PpL+13, RLM13, Sch14a, Sha13a, SXW+18, SLZ16, SPSP18, Tau10, THDS16, TIMM13, TIM+16, UBR10, VBG+10, WSI13, WLZN17, YFAT17]. *scales* [HCM19].

**Scaling** [ZMJ13, AS11a, BH14b, BH16, CCWL11, FUSH14, FVH18, GNA+15, GYW+10, HHS+10, JWC17, KBB+17, LD10b, MMO+17, OOK+12, RWKS15, dSVLP13, vMB14].

**scan** [Fer15, PSMS14, PSMS15, TCK+15, MAC12]. *Scans* [Mau16].

**scattering** [CFCB12].

**scene** [CFCB12].

**SCATCI** [ART17].

**scatter** [LP15, MTO15].

**scatter-gather** [MTO15].

**scene-dependent** [CFCB12].

**SCBiCG** [GCHL15].

**Scharfetter** [PFFK19].

**Scheduler** [ALS16].

**Scheifele** [YZZ11].

**scheme** [ACMM10, ACM12, ACML11, ACTP15, BM13, BBC+13a, BE14, BMBC+17, BB12, CWS14, CZD15, CY19, CWY+17, CEF16, DJ11, DM17, DOP17, DML+16, EWI4a, EW14b, EE12, FOB+15, Fu19, Gd14, GRLS18, HP14, HZ11, Jiw15a, JS16, JP10, KC14, KH+11, KZC+17, KP14, LJE11, Le16, LS12a, LLX16, LWS18, LH+17, MLR10, OK14, PLN13, PR10, PK18, SMOB19, SN+11, Ser10, SKML11, SAS11, SDL+16, TACA15, TVGB15, WJCZ18, ZHL13, ELL+17b, XNK+16].

**scheme-independent** [Les16].

**Schmidt** [CBGY17, CBG18].

**Schneke** [Sch18].

**Schramm** [SW11].

**Schroedinger** [ABB13, AB+19, BAR12b, CWS14, Cap13, CP13, CZS10, CSJ+17, DT10, DT11a, DM17, Dua10, DM12, FE11, GS15, GM16, IKS19, Ixa10, JYP18, KZC+10, LV14, LW14, LST15, Lin13, LB10b, LY16, MC16, Moh14, ICD13, MNO+11, ON12, PAS11, PM16, QSC14, SSH+13, SB11, TD14, TT14, TY10, Wan10a, Wil19, XZ12, ZST11].

**Schrödinger/Gross** [ABB13].

**Schroedinger** [SmD14].

**Schwarz** [HLLH16, HCSW10, TVT+16].

**Schwarzschild** [JLM18, Jia18].

**Schwinger**
[CKCS13, HB12, HM12b, SAW18]. Science
[LSJ13, SNG+11, TN11, CKhN11]. sciences [GMH11]. Scientific
[NAQ16, QYM11, QA13a, SP18b, WZS+11]. search
[BBB+11, BPSS18, BG13a, DR12, GCC+18, JTP15, KPVvdH13, MTS+16, PP13, PMS+15, TC11a, WP11, WRFS15]. searches
[GTL+17, VPP+12, WRVdL15]. SearchFill [DBJ11]. Searching
[KBLJ18, Ano11a, LOK+16]. SecDec [BH13, BCH13, BJH+15, CH11a]. SecDec-3.0 [BHJ+15]. Second [BB13a, HD17, ADdM15, CH11a, CKV16, GPS+13, KTB17, Kir10, KBB+17, LX12, LJSW11, LW14b, NS15, NO12, PTK15, Pla16, RL10, VEB+18, WC13, WYSW10, WT15, Zit11]. second-order
[ALL+11, BS13a, BHS15, CYD11, CM14b, DHS14, OILK17, SGA18, Shi16, vdS13]. sections [ASEA14, BPC12, Cip11, Cip13, DLM18, Gao13a, GLS+13, Kol14, Lit13, PDL+18, VC10]. sector
[BBH+11a, CH11a, KU10]. sectors [BBH+10, KKS18, KZ11]. Security [ÖY13]. sediment [SYD17]. see [BBC+13a]. see-saw [BBC+13a]. seed
[ABH+19, BPSS18, CLH+17, HJH17]. selective [JK13, TIMM13]. Self
selfadaptable [CFCB12]. Selfconsistent [ELL+17a]. Semi
[KZC+10, QSC14]. **Semi-Implicit**

[GHBL18, BB12, CZD15, IBP+15, LHH+12b, MIW+12, SHL+11, WG16b].

**semi-infinite** [ZL13]. **semi-Lagrangian**

[Ein16a, GAB+16, Lan13, MIW+12, UNK12]. **semiconductor**

[ASGLK10, AK15, ACCB13, Bot12, CM15, CL10, CLL16, DJ12, GTG+11, HHC16, MiH12, NAQ16]. **semiconductors**

[BMZ+18, GC12, KOK17, LZL11, PFFK19]. **semidefinite**

[VvAV+11b, VvAV+11a]. **semiempirical** [IIO16].

**semismooth** [CB15d]. **semismooth-Krylov** [CB15d].

**sensitivities** [GA13].

**sensitivity** [CSC11, HS14a, KTA12, PPS10, SAA+10, SK10, TBZ12, WLH+12, WLS13]. **separation** [MSRL10, SJW10].

**sequence** [GCF+17, HLD13, ¨OY13].

**SequenceL** [BBB+17a]. **sequences** [DBB12, DB13].

**sequential** [AL17, NM14].

**serial** [CUL+17].

**series** [ADdM16a, ADdM17, BDJS18, CZ17, CC10a, CO11, GMPFC+14, HvWT17, LLHC11, NO12, YZCS18].

**SERS** [CLY11]. **SERS-active** [CLY11]. **servers** [WMK11].

**Service** [MLR10, HDF+19, VDJ+11]. **Set**

[NHSY15, CK18, FM12, FHA17, Ki10, KN13, MBFB13, PVK+18, Pit12, RCGT16, XHL12, XLX+15, YS17, MFG+13].

**sets** [Cor14, FBG10, GJLB12, JH15, SZC+13, VdLF14]. **setting** [CNS+14].

**setup** [FJ19]. **several** [GCHL15].

**sequences** [DBB12, DB13].

**sequential** [AL17, NM14].

**serial** [CUL+17].

**series** [ADdM16a, ADdM17, BDJS18, CZ17, CC10a, CO11, GMPFC+14, HvWT17, LLHC11, NO12, YZCS18].

**shape** [DGMZ15, NS11b, OK14]. **shaped** [HSD17, MSR+17, Nov17].

**shapes** [AIG16, GTPWL12, GGKH14, XLX+15, YLYL17]. **Shardlow** [LBM+14].

**Shardlow-like** [LBM+14]. **SHARE** [PLRT14]. **Shared**

[KKK+18, BKS15, CL15b, NFS15, TE18, WMRR17, WMR19].

**Shared-memory** [DKG+14, NFS15, TE18]. **sharing** [TRM+12].

**sharp** [CDL+12]. **SAVEL** [ME18]. **shear** [BF10, CMVRB+14]. **shear-shear** [CMVRB+14].

**sheath** [KMD12, KM17, KSY17]. **sheath-plasma** [KMD12, KM17]. **shedding** [TKL+12].

**shell** [ACTP15, BM16, Cip11, DT18, Faw10, MCA17, Trö11].

**shell-model** [BM16].

**ShengBTE** [LCKM14]. **Shepard** [FZY13]. **shields** [OVSI15]. **Shift**

[KHN19, Ber14, EJG+19, FZ16, NGG+13, Ram10, RLM13, STY15, STY18].

**shift-invert** [RLM13]. **shift-operator** [Ram10]. **shift-without-invert** [FZ16].

**Shift/collapse** [KHN19]. **shifts** [NLSJ17].

**shock** [Fu19, KR14, PBD+15, QLE16]. **shock-capturing** [Fu19]. **shock-fitting** [PBD+15]. **Short** [BBF+10, ADD+11, BTM+17, BWPT11, Fri10, FN17, HWL+17, Ram10, TKR13].

**short-range** [ADD+11, BTM+17, FN17, HWL+17]. **Short-recurrence** [BBF+10].

**short-time** [Fri10]. **shorter** [BL18a, dJBIM16]. **shot** [HLS12]. **showers** [BG14b, GRZ10, TS10, War16].

**shuffled** [AZM14]. **Si**

[CHW+15, Dan16, MTS+16]. **SiC** [Dan17]. **sides** [STK10, TKS10].

**sign** [BH11, Kap16]. **signal** [JHJG14, LCR10]. **signals**
[ASA18, MRSU14, SRS+18]. **Skyrme**
(RHBH15a, CCGC13, PSL+17, RHBH15b, SDM+12, SDS+17, SSK+S13].
**Skyrme-HF** [RHBH15a, RHBH15b]. **Skyrme-type** [CCGC13].
**skyrme_rpa** [CCGC13]. **skyrmion** [BUJ15]. **slabs** [LN16]. **SLAM** [MZ14].
**Slater** [USOA13]. **slave** [QwWL+15]. **slave-boson** [QwWL+15]. **SLDMOL**
[CZN14]. **sleep** [SLC11]. **SLHA** [Mur14]. **SLHAplus** [BCPS11]. slicing
[SCS12]. slightly [BAF18]. **SLIMP** [ZZ15]. **Slow** [SDJ+12, WL11b].
**Slow-to-start** [SDJ+12]. **Slurm** [OBPL19]. **small** [Ber14, BBV+16, FLP10, JLW13, PP13, QHC+10, TIMM13, dSLF13].
**small-world** [FLP10, QHC+10, dSLF13]. **smallest** [DS15]. **Smilei**
[DBP+18]. **SMMP** [YK10]. **SModelS** [AKK+S18]. **smooth** [CCLL18, Cou13a, Cou13b, Qia10, WG16b, WvSL13].
**smoothed** [HHC16]. **SNEG** [Zit11]. **snowdrift** [QHC+10]. **SO-FDTD**
[LJD+19]. **SoAx** [HL18]. **soccer** [dSVLP13]. **social** [CHDF10, IBKK11].
**socket** [TRM+12]. **soft** [GSC+16, HBL+13, KL11, SM19, SM19, WS11b].
**SOFTSUSY** [AAT+14]. **SOFTSUSY3.0** [AB10]. **SOFTSUSY3.2**
[AKH12]. **SOFTSUSY3.3** [AbdA15]. **SOFTSUSY3.7** [AMRdA17].
**SOFTSUSY4.0** [AC17]. **Software** [Jav17, MCV+16, NFA+16, SP16, AKZ+S+13, BFM+S+13, BCG+S+15, BRH+S+16, CPCdM18, Dan12, FBC+S+12, GXF+S+15, GJA+S+16, HRI+S+17, HM10, HM17, KST+S+14b, LPC+S+15, LHGF18, LSK+S+14, MÅWK18, MZY+S+19, NBW16, ORI+S+10, Ost10, PVH+S+17, PMS+S+15, RDP14, SD15, SCC+S+12, Sin11, Sin12a, SLR16, SS18, Sou14, SJY18, TL17, VPP+S+12, WGG16, WZS+S+18, zYCG+S+18, ZMe+S+13]. **soil** [OML11, PBF+S+16].
**soils** [GTSL+S+13]. **SOL** [FLSZ13]. **SOL-core** [FLSZ13]. **solar**
[DJ12, FXZ+S+14, GSKM15, HGCA+S+S+15, Kap16]. **SOLARPROP** [Kap16].
**solid** [BCP+S+16, Bot13, CCD+S+16, HXW+S+13, JPcG15, KS+S+16a, Min11, NGC+S+12, dlRAPL11, PLD15, QDZ+S+13, UA17]. **solid-fluid** [CCD+S+16].
**solid-solid** [QDZ+S+13, UA17]. **solid-state** [dlRAPL11]. **solidification**
[YK18]. **solids** [AKZ+S+13, Hin11, Jab19, MSHLS15, MSHL17, dlRJ14].
**solitary** [AS11b, DS11b, DN13]. **soliton** [DT11a, Pål12, TD14, XLL15].
**soliton-like** [XLL15]. **solitons** [DG10b, HWCH11, JPM12]. **SOLPS**
[SCB+S+17a, ZCC19]. **soluble** [vdSM16]. **solute** [DMC+S+15, JJJ+S, XHM12].
**Solution** [APV10, CDTV10, DS10, LHC+S+13, PH11, RRBH+S+15a, RRBH+S+15b, SDM+S+12, SDS+S+17, AGH+S+16, AH13, BSM13, BH16, BK15, Bis15, CDMC+S+11, CSJ+S+17, DMP18, DT11a, DS11b, DN13, DSW+S+15a, FGLB12, FFH11, FM15, HKS10, HK12, JK10, JL10, Jiw15a, KAS12, LD10a, LD10b, LV14, LZIP12, LLP15, Lin13, LWL10, LZ12, MBJ+S+10, Moh14, MA11, MM10, MNC15, NF17, ÖN12, OK14, PSBT12, PAS11, PDRG10, PR13, PTS12, PSL+S+17, RDP14, RWA+S+14, RM10a, RM10b, RLM13, RGKR17, SW14c, SD10b, SS13b, SSH16, SK14, SSK+S+13, VBG+S+10, YZ16, ZDWM17].
**Solutions** [Lev19, AD14, ADdM+S+12a, Bem11, CZ18a, CB13b, DGST+S+17, Er14, JLW13, KMM+S+13, LLL+S+13, sL10, MC+S+12, MSZW11, MK10, MNO+S+11].
NO12, PAS11, PS14, SR12, TD14]. solvated [WFM14]. solvation [ZPH+15]. solve [AD14, AD15, ADdM12a, DG10a, JSLM16, ÖN14, RJLL16, SS13c]. solved [ACMM10]. solvent [CBB14]. solvent-filled [CBB14]. solvents [ZBG+16]. Solver [DSW15b, BMC+11a, BMC+11b, BKOZ16, BAR12b, Bot13, BC11, CVK+17, CP15a, CPV13, CCL18, CZF18, CRLS18, CRA10, CFF19, CBB14, CDR+15, DLBL16, DGG13, DM12, Eiu16b, Eiu17, FJK+17, FSC13, FE11, FZY17, GS15, Gai17, GBP13, GJ14, GJ13, GG16, HWG13, HZW+19, HWM+15, Hua17, HCHW11, KDM17, KYM+17, KH12, LYP14, LW14a, LC15, LCKM14, LLY+17, LF12, LWJV18, LWP+17, LCHM10, LCHM13, MC16, MTE17, MGL16, MR14, MMC+12, ML14, MFM15, MVS15, MCL+17, OILK17, ORS+14, PZY16, PMS+17, PBD+15, Qia17, RSV16, RVS18, RC13, RC16, SGS16, SSX14, SGW17, SLEF17, TL17, Ter17, VV16, VV18, WBS+18, WC13, Wit14, sX14, YXT+15, Zag14, ZPH+15, ZPvR16, ZCG17, ZPS+18, HB13]. solvers [AL17, BSK+18, BB13b, CB18, CGM17, CBB+10, CV18, DBMR18, DZ13, FR15, GWF+11, HC17, Hoh18, LV15, Qia16, VLPPM14, zYCG+18]. Solving [BAK+15, BAK+16, BAK+17, CD12, CBB+10, Dem13, DBP16, DSP15, ENE015, Fan19, Fil13, FGG11, HAK+14, HAH13, HS14b, HI11, JC16, Jan10, LV10, RHH12, SMdONF14, zYCG+18]. Some [CEPI10, FG13, HWCdM19, MR13, MS15, ZHS13, Er14, Ixa16, KD16]. soot [ZLFM11]. sooting [EZL+16]. sorting [MEM+11, MM11]. SSSpin [CECGS16]. sound [KL11]. sound-soft [KL11]. source [AZ17a, AZ17b, AFZ17, AFZ18, BCP+16, CMC+15, CHC+11, CFW17, CDR+15, Dan11, DBP+18, DLBL16, FLA+16, HSF+15, HKvH16, HWM+15, Hua17, JWC18, JNN12, KDM17, KPF+17, KSH14, LPC+15, LZ11a, LZ11b, LZ12, MK10, MZE13, MSN11, MMY+19, MVS15, MGFRG12, NMS14, NGCI+12, ORS+14, SC16a, SPAW17, SAHP15, SDL+16, TL17, TACA15, VBG+10, VB19, WGG16, WVF14, WPAV14, WZS+18, XAPK14, Zag14, ZCG17]. Sources [EW14b, EW16, EGGW12, KM10, ML14]. Space [BBB17b, FDZ17, JKG+18, BG11, BAK+15, BAK+16, BAK+17, BY17, CDBM16, CVK+17, Chr18, CSV+18, EUT+15, Evs14, FZ16, FGLB12, GTS14, GBSY18, HLL16, JBG+17, JLM18, Jia18, KKL+18, KS16b, KSW15, KS15, LOK+16, MHD18, MC16, MBF+10, MJB+10, MGB18, MSF+16, MSM+11, MSH11, NAQ16, OBH10, ÖKC11, OOK+12, dRJL14, PSB11, PSBT12, QYM11, QA13a, Qia17, SP16, SCR17, SA15a, SBH+12, 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 [Mül14a]. spacewise
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[JC13, JC14, VJC12]. **Symmetry** [MW14, Alv12, BCDP18, CDTV10, CFSK14, FF11, GNT17, HJL+14, LRC+11, ZAHAI0]. **Symplectic** [LQ18, MKS10, Bla15, CWJ19, CFMR10, CZS12, CYSL12, HDZ14, KMS14, KZC+10, LS12a, LYL+17, QSC14, RHW+12, SSH+13, SW12a, SW13b, WXL13, WWHW14, WWC+16, ZST11]. **SYMPLE** [KDP+14]. synchronous [BENK+17, Fer15, SCM13]. synchrotron [LSF14]. synthesis [LHWL16]. **Synthetic** [MGA+13, BL18b, KFF+16, PN15]. **System** [KBT+14, Ana11a, BM+11a, BJBC+14, BCP18, BBH+10, BBH+15, CDBM16, CFCSB12, Cas12, Dat13, FBHB17, GZL14, GBP13, HAH13, HZ11, HLD13, JMG+17, Kro16, LDR+17, MD10a, MSI+10, MCA1F14, MSH11, OK10, OY13, PMMW15, SXW+18, TTG11, TTS11, TD17, WNY17, mZXL15], **SYSTEM** [KDP+14]. systematic [BW16, BSK+18, GA13, RCGT16]. systems [ASTT16, ASIS18, ARI15, ASPDL+16, AGH+16, ADaM+12b, ACaM14, BMD+11b, D4JC+19, BFPP12, BBS14, BK15, BVC13, BM14, BC11, CR13, CLH+17, CGM17, CZ18b, CLJ12, CYSL12, CL15b, CB15d, CB16a, CR12, CBB+10, CFFR15, Dan14, Dan16, Dan17, DBJ11, DEW16, Ert14, Ert15, FIW10, Fil14, FE11, FLW17, GLHR19, GJ18a, GS17a, GH11, GM16, GBJ+10, GBJ+12, GBJ+13, GCHL15, HBL+13, HAN+16, IUM13, JLA+14, JWC18, XTS16, JLL13, JNN12, JNN13, JGC+11, KFS17, Kau13, KPA13, KHZ+18, KI11, KO12, KS12, KPOP18, KGNS10, LLQ19, LMK+16, LCV+11, LCo12, LRW+15, LWYW11, LS16, LB10a, LB13, LKT+16, LCM10, LL12, LCHM13, LBP15, MPM14, MFM15, Men11, MGS13, Miy15, PFA+15, PTMDPK14, PLCC12, RF10, RAV11, RHC15, RCH16, RLMGM+11, SW14b, SL17, SH18, SEGP15, SGW17]. systems [SL16, SS10a, SPP19, TM14, TDL+14, UO15b, UO15a, Voy13, VBMP15, VB19, Viuk12, WXL13, WRB11, WAW14, WWS10, WW10, YZWR14, ZAHAI0, dB14]. **SYVA** [GNT17].

T [HD17, PC11, NDSH18, MB16], **T-matrix** [HD17], t-**SURFF** [MB16]. **3PS** [Mau16], **table** [JTH14, LYJY10, Wei11a, vSGB+18], tackle [CKS10], **tadpoles** [Pik18], tag [DKT14, HLS12], tag-mediated [HLS12], **tailed** [VvAV+11b], **tangents** [PR10, PR12]. **Target** [DAW+19, GC13, HHT14, RT16], **targets** [BAK+17, HC+16, LHJ+15, MSR+17, MOB19], **Tartarus** [SGG19], **task** [TGH+16], task-based [TGH+16], **tasks** [HWT0]. tau [SW14c, Wan10a, HTT13, HTT14], **TAUOLA** [CPWZ18, DNP+12], Taylor [WG12], **Taylor** [vH10], **TD** [HM17], **TD-DFT** [HM17], **TDDFT** [PVK+18, POU14], **TDDS** [GLHR19], **TDF** [SGDS16], **TDHF** [MRS14, SRS+18], **TDSE** [FZY17, ON14], **TE** [LS17b, LSS14], tearing [HSE+12]. Technical [DNP+12, DPW16, LS15a], **technique** [BALV16, BCP18, CS10, DGI10a, DGI10b, DM17, Eba13, EKDG15, GHydL11, GGG16, GTS14, Hon10, JAS17, KN13, Koh15, KR16, LLX14b, NPAD11, NSH18, NVAFO18, Ram10, SK14, TH17, VDB14, WLS13, WDR16, MAIVA14]. **techniques**

Temperature [HST+11, HEF+11, BM16, CM10a, GB14, HyWT17, Hin11, KST14a, KCT15, KA17, KNGS10, Liu13, LK15, Liu15a, LJD+19, Mil16, RF16, SLK19, SLC11, SC15, SC16b, SPSP18, VdLF14].


temperatures [Wai12].

tempering [Boe14, FFT+14, JJ15, VdLF14, VDF15]. Template [LHL11, BJ14].

TemplateTagger [BJ14]. Temporal

[MDF11, SCB+17a, YHCS11, IBP+15, KEH12]. TENO [Fu19].

tensile [SCM+18]. Tension [RM10a]. Tensor

[SPS18, BK12, Bre10, DKSOS14, DLW+18, GCH+18, HR11, KAK12, KK14b, KK14a, KCA+15, Lya15, NKS15, Nie18, PGO17]. Tensors

[Dep17, Ara14a, Ara14b]. term [Pla16]. terms

[ACM10, ACM11, ACM12, Deg15, HMU10, LNP+17, MSR10]. ternary [Sza16].

terrain [OAKS11]. TERS [Nat10, Nat09]. Tersoff [Ngu17]. Tesla

[Lya15, AAA+16]. Tessellation [CMSN18]. tessellations [SOJ14]. Test

[LNSD15, PBE14, SIS10, TdAdSS11, VEM12, ZZG+16]. test-kinetic [VEM12]. TESTER [DGPW11]. Testing

[ES11, FMRP16, Pit10, Liu11, MGFRG12, TVT+16, Zlo14]. Tests

[SM17, Gag12b, Gag12a, GH18]. tetrahedral [JG16]. tetrahedron

[GJ18b, Kap12a]. tetrahedron-based [GJ18b]. Tevatron


their [BDJS18, GSK17, GCVA14b, KAR+15]. theoretic [SSBS15].

Theoretical [HCC14, LQT+13, NS11b, NV+13, Sit18]. theories

[ADF+15, CJ12, Cip11, Fri14a, LSSW14, SA14]. Theory

[GS17a, VCMS+13, ZZH+16, ASA18, BPC12, BB13a, BW12a, BG11, BO12, BRH+16, CXH+15, CKhN11, Chr18, Cri18, DF13, FK15, GRL+17, GB+14, HAH13, Hsu11b, HHS+10, JCR+13, KBB+17, KVW11, KVST15, Kra17, Kra18a, LA13, LSD14, LWS18, LSK+14, MGRB11, MBF+10, MOB12, MSS+16, MG01a, Mii11a, MC17, Naz12, NRS12, Nut14, OOK+12, OT+11, Pre18, QJF16, RWKS15, San15, SD15, SCR17, SSS16, SB+12, SU18, TVGB15, VBS+17, WHG+19, Wan10b, WM13, YZWR14, YLYL17, ZAH10, BK13b, BC10, DKB12, GS17b, LT15]. thermal [CCXC15, DS13b, FSH13, Fow18, FM15, GM14, TKP12, Wan16, YK18, CKFB12]. thermally [CZN14].

THERMINATOR [CKFB12]. thermo [DMGZ15]. thermo-mechanical [DGMZ15].

thermochemistry [YFAT17]. thermodynamic [BSWC14, Cou13a, Cou13b, DES+11, GRR+14, MJ11, RKGC+17, TDL+14, ZZH+16]. thermodynamics [AGVP10, Fri17, KH10, MWL+10, dlRAPL11].

Thermoelectric [BKA+14, KAR+15, NVAFO18, PVK+14a, PVK+14b].

thermostat [GJHF14, JBM15]. Thermostatistical [GM11].

thermostatistics [AMR15]. thickness [CDSG11]. thin [BL14]. Third
Three-body [BY13, LB13, EKO16, Ixa16]. Three-dimensional [CW16, dAFdSVM12, LJSW11, MNPF17, WWC+16, BC11, DS13a, DHR14, FGLB12, GS15, GBR+14, GM16, HM18, KYSV+15, KSY17, LLHC11, LV14, LS15b, LLP15, LTP+17, LAS+17, LB+16, LYS+16, LR13, LR16, MWI+19, MC16, MGRB11, MGL16, MC10, MBFD12, ICD13, MC17, NPM16, NAQ16, ÔN12, PSB11, PSBT12, PM16, PVK+18].

Three-temperature [SC15, SC16b]. throughput [EC10, ZZ17a]. Ti [Ell17b]. TIERRAS [TS10]. TIGER2 [BW15, MPB10]. tight [HSF+19, HM17, RJKC16, SHNM11, YLYL17, LSK+14]. tight-binding [HSF+19, HM17, RJKC16, YLYL17]. TIM [LHC+12, OTC14]. Time [DAW+19, GTG+11, HFK+12, IBB18, LLQX19, LB10b, RJKC16, TD14, TC11b, TT11, AAA+16, AdM16a, AdM17, ADBR17, AH13, BS15a, BR14, BD10, BMBC+17, BB12, BENV+17, C17+16, CMSN18, CVK+17, CC10a, CDL+12, CW16, Chr18, CHZ18, CO11, DS13a, DS10, DM17, DV11, DSW+15a, DKSG16, DHR14, DJ14, DM12, ECD+10, FDZ17, FGLB12, FNPMB10, Fr10, GS15, GMPPC+14, GML15, GBR+14, GM16, GVR19, GBSY18, GJHF14, GWF+11, HE13, HWG13, Has11, HCL16, HLLH16, HC17, HKvH16, Hsu11b, HHC+10, HWM+15, Hua17, HM18, IW15, JLM18, Jia18, JHJG14, JMG+17, KK16b, KYSV+15, KSY17, LLHC11, LV14, LS15b, LLP15, LTP+17, LAS+17, LB+16, LYS+16, LR13, LR16, MWI+19, MC16, MGRB11, MGL16, MC10, MBFD12, ICD13, MC17, NPM16, NAQ16, ÔN12, PS11, PSBT12, PM16, PVK+18]. time [PTMDPK14, PBS+17, QYM11, QA13a, QWZW18, Ram14, RVDS16, RDVS18, SHT18, SSB+16, SLV18, SKF16, SVV19, SSH+13, SGW17, SBH+12, SCB17b, SW12b, TTG11, TL17, TT14, TVT+16, TVGB15, UW12, US16, VDB14, VBS+17, VVB+12, Vuk12, WL11b, YSVM+16, YSMA+17, ZD15, ZYZ15, dSF18, dHGCS11, CYN19, Wil19].

time-delay [DS10, LTP+17]. time-delayed [JHJG14]. Time-Dependent [LB10b, GTG+11, IBB18, TC11b, TT11, BMBC+17, DS13a, DHR14, DM12, FGLB12, GS15, GBR+14, HM18, KYSV+15, LV14, LBB+16, LYSS+16, MC16, MGRB11, MGL16, MC17, NPM16, ÔN12, PM16, SSB+16, SSH+13, SCB17b, TVGB15, UW12, VBS+17, VVB+12, WL11b, YSVM+16, YSMA+17, ZYZ15, dSF18]. Time-domain [LLQX19, CW16, FNPMB10, HE13, HC16, HC17, HKvH16, MBFD12, ICD13, SVV19, SW12b, TT14, VDB14, Wil19]. Time-efficient [RJKC16].
trajectory [DAW+19, TS11, Wil15]. Transfer [Hak16, Lee16, TRN16, ZLL18, ASS13, BBB17b, CLJ12, CZF18, DBMR18, ELDS14, Gai17, GZL14, HTT13, HTT14, IBB18, MR14, NBM+15, NCHN15, NFI17, NGCI+12, STT11, SR12, XHLUF+18]. transferable [HBP+15]. transferred [CLW11]. transform [CLW11]. transformed [CLW11]. transformations [Che17, MWCY14]. transient [NB17, CAN11, CCXC15, CB15b, GTSL+13, MK10, QWZW18, RJLL16, WNYP17]. transienta [PLF+17]. Transition [BP12, BR13, KBLJ18, LA13, BL14, CK12, DSHS17, Fri12, HW11, KA17, LRC+11, MTS+16, NFI17, RMC16, RE12, SLZ16, SV12, Wai12, WJHW14].

Transition-path [LA13], transitions [BUJ15, CMR17, JJB11, KPA13, Ots11, QDZ+13, RAV11, VDF15]. translation [TSIM16]. translational [CATK11]. translocation [KSH11, dHGCs11]. transmission [GCVA14a, HTT13, HTT14, MD10a, PYW+14, SVGS18, WHB16]. transmutation [CLF18]. transparency [WL11b]. Transparent [NPM16, SP18a]. Transport [CP15b, VC10, ASPL+16, BDPM15, BTL+17, CVK+17, CCXC15, CXG+19, CAGL13, DSP15, EY11, FUSH14, FVH18, FZ16, FLSZ13, FRFH10, FR15, FM15, GZL14, GLHG12, HBE10, HCC14, HF16, Htn12, Jab19, JA17, KLKR11, KYKN15a, KYKN15b, KPK+17, KKS18, LLE+18, LCKM14, LRK13, MD11a, MCIV18, Mar15, MS14, NPM16, NBL18, OBH10, PPV+11, PLF+17, PMS+17, PBF+16, PFFK19, PVK+14a, PVK+14b, PMVG16, RF16, RDC+18, RB18, SL16, SISW10, SK12, SD14, SCW+11, SSF+14, SC15, SC16b, Tic10, Tic14, WRFS15, XJS16, YSN+14, ZFR18]. transpose [Lya15]. transverse [MSH11, Qia17]. trap [BDP16, KYSV+15, LBB+16, SSB+16, VVB+12, YSVM+16]. trapping [JA17]. traveling [sL10]. TRAVIS [MTM14]. treat [FCCTFR18].

CB16b, CL13, CLB11, CRN12, CMS17, DM17, Dem13, DRUE12, DKOS14, DM12, EDPZ19, Ein16b, EKDDG15, FJK+17, FDWC12, FNPMB10, FWS+17, FZY13, GBP13, GSKM17, GA10, GSB+14, GMH11, GYW+10, GM18, GRTZ10, HTJ+16, HCC14, HAN+16, HHC16, HKK11, Ihn12, JK13, JU17, JSLM16, KK16a, KH11, KTB17, KK14a, KD17, KKP11, KN13, Koh15, KS12, KKS18, KST+14b, KHKR14, KCS+15, LLHC11, LD10b, LA13, LBM+14, LOK+16, LWZ14, LLY+17, LXR+18, LHH+12b, LS12b, LTP+17.

using [LAS+17, LNSD15, LHGF18, LWP+17, MED11, MGRB11, MHV17, MP11, MHS+10, MRFV13, Mazz19, MC12, MVL+16, Mis12, MM10, MSML10, MLK+17, MLK+19, MGR16, MSS+14, NGH10, OBH10, OKM12, OYK+14, PST12, PPV+11, PDRG10, PVK+17, PDL+18, PSL+17, PR10, PR12, PCEH15, PMV16, PA13, RDP14, RMS+12, RLMGM+11, SCB+17a, Saw18, SEW12, SEW14, SÖÖN11, SW14c, SWL+15, SPM11, SD10b, SA15b, SLR+11, SSF+14, Sie16, SC15, SN16, SPS10, SKH+10, SHL+11, SBH+12, SS10a, SSK+13, TOB+14, TVGB15, TW15, TCP13, UBRT10, VSO+13, VvA+11a, VJC12, WISA11, WW15, WLG+13, WAHL13, WMRR17, WMR19, WVF14, WAW14, XHLUF+18, XLX+15, YZ16, YK10, Yi11, YBK11, YBNY13, YE14a, YB13, YXT+15, YG12, ZBG+16, ZDY10, ZKG+18, ZMvE+13, dJB16v16]. USPEX [LSOZ13]. utilitarian [CB15a, CB17]. utilization [sLsqL+13, SMCB+15]. UV [Deg15, Fen12b, dDYK+18]. UV-divergent [Fen12b, dDYK+18].

vascular [GVR19]. **VASP** [DA16, HW12, MDGC+12]. **vdW** [LAA+10]. **vector** [BW11, DDKM15, FBHB17, GJ18a, GNT17, KYKN15a, KYKN15b, KL17, LK12, LHJZ10, ME18, PDL+18, QM10, SAHP15, SBQ14]. **vector-boson** [DDKM15]. **vector-valued** [KL17, LK12]. **vectorisation** [TH17]. **vectorization** [SAN18]. **Vectorized** [RMW13, TGH+16].

**velocimetry** [BW11, DDKM15, DDKM15], **velocities** [JC16, MSHLS15, MSHL17]. **Velocity** [PVK+18, CDBM16, HST+11, JBG+17, JH11, Sza13b, Sza13a, Sza16, YW17, YTYA17]. **velocity-dependent** [HST+11]. **Velocity-gauge** [PVK+18, YW17]. **VENUS** [LSK+14, PCGM14]. **VENUS/NWChem** [LSK+14]. **versatile** [Sou14, ZSW+17a, ZPS+18]. **Version** [AFZ17, CB17, FLZ+18, HS18, AC18, BPC13, BB13a, BH16, BLG14, Bon15, BHW+12, BBH+15, CWW10, CWW15, Cip11, FLA+16, Gin10, GRR+14, GFB+10, GCV14a, HAY+14, HD17, JCL10, Jia18, JGB+13, Kol14, KDM11, KUV13, LCJ10, LZ11b, LRR+15, MFS10b, MAM14, MYP+14, MG10b, Nat09, Nat10, NS11a, OKP10, Org15, dRL11, dRL11, PSL+17, PR12, Pit12, PVK+14b, RDS18, RHRH15a, RHRH15b, SMOB19, SSG+18, SRS+18, SDM+12, SDS+17, Sin16, SSK+13, TV10, WMK11, WW13, WRMR19, XW15, ZXL16, ZMPT13, FP14, Sem16, ZE16].

**versions** [Cip13, KRW13, dSD12]. **versus** [FBN+13, RD10]. **vertex** [Eks11, Sus17b]. **vertexing** [Dim14]. **vertical** [TKL+12]. **Very** [BC10, MNO011, GMC18, LOV10, MN16]. **Very-high-precision** [MNO011]. **VEST** [SBQ14], **vh** [BHZ13]. **via** [AC13, AG14, ADdM14, BK11a, Boe14, BHW+12, BMG+15, CS17, DG10b, DS10, DN13, GB11, GH15, GTG+11, JTT11, LBH11, LN16, LWJV18, Maz13, Per14, SGDS16, SDL+16, TO10a, UA17, XLL15, YJK11, ZZ17a, dSF18, dH12]. **viability** [BL18b]. **vibration** [Gar19]. **vibrational** [CHW+15, HW11, YFAT17]. **vibrations** [AYDY11, LQZ+13]. **vibroacoustic** [FOB+15]. **video** [DGPOR18]. **video-microscopy** [DGPOR18]. **View** [HS16]. **viewer** [HS16], **viewing** [KY14]. **VII** [SDM+12]. **VIII** [SDS+17]. **violating** [AKH12, CGV13, CRC+13, Mur14, RCD+10, Ros15]. **violations** [AB10, LCE+13, Urb18]. **violent** [MRSD15]. **Viratio** [LDF+16]. **virtual** [AAB+10b, BBU13, BCM+16, GHdF10, NOR15, TCK+15]. **viscoelastic** [MAIVAH14, RT˚AT15, XD16]. **viscosities** [GZW17]. **Viscosity** [BJM15]. **viscous** [dCLOL19, GZW17, KHB14, XD16]. **VISHNU** [SQS+16]. **visited** [BVC13]. **Visual** [Dan12, AKV18, GGF+13, GFB+10]. **Visualisation** [BBW11, Rut18]. **Visualization** [AKH+18, GCP+15, SC14, AZS+11, Aon11o, dAFdSVM12, JEC+12, KY14, MSI+10, NBM+15, OK10, TL17, WLG+13]. **Visualizing** [ERPDFS15].

**Vlasov** [BCDP18, CDBM16, CC14, CC15, CEF16, CHZ18, FL13, FK12, GBSY18, KSS18, MIW+12, MIW+13, MMA15, PDJ10, SS11b, UN12, dB14]. **Vlasov-Hybrid** [KSS18]. **VLBI** [TRM+12]. **VLBI-resolution** [TRM+12].
Wealth [CLLK11], weather [DBD+17, SLY18], web [HS16, MLR10].

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