# A Complete Bibliography of Publications in *Computer Physics Communications*: 2020–2029

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10 June 2024
Version 1.37

## Title word cross-reference

(1 + 1) [SP20, SLZ+24]. (3 + 1) [DH20]. $(zI - H)x = b$ [HKY+21]. 1 [BGW+22, JDD+21, LEE+21a, MPH+24, Sch21, TCSA21, WJB21, WKBW21, YYZ+22, ZGW20]. 1/1 [ZJM+21]. 2 [ALB22, BRAC23, BKRG22, CAC+22, GUW+22, LEE+21a, LS22, NT24, RMCC22, RBFB20, SLDF+21, SCL22, WWB22, WKBW21, YNV22]. 2/1 [ZJM+21]. 3 [ATC+23, BKP22, CZS+21, CCW20, DFG+23, DRZ+21, DBH+22, GTE21, GPM+21, GSL+23, GOS+22, IGL+24, JLW24, KWZ24, KNJ+23, LG21b, LLZ+23, LLH+21b, MMP20, NUK+22, NSY+23, PMS+20a, PGYF21, SBB+24, WZC21, WT22, XFH+22, XLG+23, YNV22, YHY+21, YKY+22, ZL20]. 3 + 1 [Tor20]. 3*j* [XWYQ21]. $^1\Sigma$ [BGHC23]. $^2$ [YLH+20]. $^3$ [UYS22]. $_3$ [DSW+23]. $_n$ [FLW+23]. $B_0$ [BGW+22]. *C* [FFTV23, NBCMH20]. $\delta f$ [SNP+20, YC20]. *e* [Dry21]. $e^+e^-$ [ABWZ23, SY20]. *f* [BKRG22, CJD+20, Ken24, MSU+21, SBB+24]. $f = 1$ [BKRG22]. $F_2$ [ABF+23a]. $\gamma$ [BKS24b, Kut24]. $H\Phi$ [IKM+24]. *i* [MEH21]. *jj* [GF21]. *K* [Bzo21, Ken24]. $\kappa$ [SLIC24]. $k \cdot p$ [ZYL+23]. $K\omega$ [HKY+21]. *L* [FFTV23]. $L^2$

[Yan24a]. $M_2$ [Par21]. $M_{n+1}$ [FLW+23]. $\mu$ [Bie21]. $N$ [ABB+24, GSBN22]. $\nu$ [Bie21, GLW+23]. $O(a)$ [FFLR20]. $O(N)$ [Kut20, LYX22]. $O^2$ [KvH21]. $p_T$ [AFJ+23]. $\partial$ [MFS+22]. $q$ [MMP+24]. $R$ [BAB+20, FMCB+20, MBG+20, PFG22, WBvdH20, BBV+22, BL21]. $S$ [BDdM20, CKT21]. $S_N$ [LEE+21a, WLL22]. $SO(3)$ [ST23a]. SU(3) [DLD+21]. $T$ [BFCR24]. $\tau \to 3\pi_\tau$ [CV24]. ΘΦ [PTD20]. U(1) [SKM+21]. $X$ [ZWP+22, ST23b]. $Z'$ [AES21].

**-Adaptive** [BBV+22, BL21]. **-component** [ABB+24]. **-coupling** [GF21]. **-D** [YYZ+22, WZC21, XFH+22, ZGW20]. **-dimensional** [DH20, SLZ+24]. **-explorer** [AES21]. **-from-** [Bie21]. **-function** [BDdM20]. **-improved** [FFLR20]. **-matrix** [Kut24, WBvdH20, BAB+20, FMCB+20, MBG+20]. **-matrix-based** [BFCR24]. **-model** [CKT21]. **-point** [LG21b]. **-space** [ZWP+22]. **-symbols** [XWYQ21].

**.Net** [Gro22, GOS+22].

**/MOC** [WLL22].

**0D** [DTC20]. **0D-2P** [DTC20].

**1** [Dau23, RDR+20]. **1-D** [Dau23]. **1-D/3-D** [Dau23]. **1.0** [DCRF23, DMS+22, OEI+22, WBM+24]. **1.2** [DP21]. **1.3** [Di 22]. **102** [IKM+23]. **11-species** [YKYK23]. **147** [MSHP20]. **147/3** [MSHP20]. **185** [AAT+20]. **198** [Ano20c]. **1D** [RDR+20, YZHL22].

**2** [KKM+20, PSK+24]. **2.0** [BMS+23, BFMA+24, CTPS22, CK23, FKS20, JZW+22, KLMU21, Lat23, MSG+21, NAZ+22, RZY+24, TRB+20a, YKK+23a]. **2.01** [KOT23]. **2.1** [ABB+22]. **2.14** [BHH+20]. **2.2** [SZY+22]. **2.2.1** [SZY+22]. **2/3D** [PSK+24]. **2020** [Ano20a, Ano20b, Ano20q, Ano20r, Ano20t, Ano20u, Ano20v, Ano20x, Ano20y]. **2021** [Ano21b, Ano21c, Ano21s, Ano21r, Ano21v, Ano21w, Ano21x]. **2022** [Ano22b, Ano22c, Ano22p, Ano22q, Ano22s, Ano22r, Ano22t, Ano22u, Ano22v, Ano22w, Ano22x]. **2023** [Ano23a, Ano23b, Ano23c, Ano23p, Ano23q, Ano23s, Ano23r, Ano23t, Ano23u, Ano23w, Ano23v, Ano23x, CZB+23, LZP+24, MPZB+24, SZT24, SVJ+24, ZXT23]. **2024** [Ano24a, Ano24b, Ano24l, Ano24m, Ano24o, Ano24n, Ano24p, Ano24q, Ano24r, MBJB24]. **228** [SJY20]. **264** [MKPW22]. **269** [ZYX22]. **271** [YNV23]. **287** [Och23a]. **2D** [YNV23, CAC+22, JLL+24, YZHL22]. **2D/1D** [YZHL22]. **2D/3D** [JLL+24]. **2DMAT** [MYM+22]. **2HDECAY** [KMS20b]. **2P** [DTC20]. **2V** [TCSA21].

**3** [AKK+24, DSSW22, DKM+24, Hal21, KLM+22, PMA+21, SS21a, SLL+24]. **3-D** [Dau23]. **3.0** [HCP20, RSPJ21]. **3.01** [BKO20]. **3.1** [CGV+22]. **30** [Pos22]. **3D** [YNV23, JLL+24, KAG24, PSK+24, Yan23]. **3DO** [GTE21].

**3DO-SKMF** [GTE21]. **3IDEA** [YKYK23]. **3V** [DFG+23].

**4** [EMM+23]. **40** [DPR+20]. **40-Feynman** [DPR+20]. **403.0** [DDM20].

**5** [LOT+20, LHG+20]. **50th** [SHB+20]. **5D** [Sit23].

**6** [Gro22]. **6.0** [ABB+24]. **6.5** [SZ24b]. **6D** [CE22].

**86** [LWC+21].

**9.3** [SMO20b]. **95** [LGBJ20]. **99-line** [YJ24].

**a-TDEP** [BBB20]. **AADIS** [YZ20a]. **AAfrag** [KOT23]. **Ab-Initio** [vRCM21, BDP+21, FN23, SLIC24, PP23]. **ABINIT** [LACL24, BCTS22, GAA+20, BBB20]. **absorbers** [KJL+23]. **Accelerated** [BRAC23, CDT22, MSY+21, BMSP21, BMS+23, CFLR24, Cos22, CESD+23, DAC+23, DRZ+21, ECS23, FKK+21, JMOC21, JLL+24, KL23b, KMR22, KT23, KNJ+23, LG23, MRH+23, NT24, Nie20, Nie22a, RLW+24, RZH22, RCW+20, SXYD24, SCL22, VSM+22, WWM+22, WWJ+22, WVK21, XBL+20, XLG+23, YLLW24, YLK21, YGSW21, ZPZH20, ZHI23]. **Accelerating** [CCM20, CCC20, CNS22, HSMR+24, MKHT20, MPN+21, SJ20]. **Acceleration** [GLB+21, AUEO24, HLzY+20, JS24, LAD+21, LJQ+22, RBWD+24, SDL+21, WZK+24, zYMK+21]. **accelerator** [ABK+22, FA21, NBS+20, TAY+24, ZYG21]. **accelerator-driven** [ZYG21]. **accelerators** [HXS20]. **acceptor** [BMR+24a]. **accessible** [AMK24, BBV23, MES+24]. **accuracy** [AIZ23, GB22, Jab20, LMQ+23, LWC+21, Tan24, YM21]. **Accurate** [LVMGF+23, ZRH21, BV21, CZWE23, DLD+21, ENK24, Koz23, LN23, MT23, NRG24, PG23, TCY23, TLC+21, VGGP+21, XZLX20, Yan21b, ZCWY20]. **Accurately** [FN21, FO20, FO21, PPKK21]. **ACFlow** [Hua23]. **acid** [OSLC21]. **acoustoelasticity** [LLY+22]. **Acquisition** [AAA+20]. **across** [CCM20]. **actin** [HMM22]. **acting** [KT23]. **actinides** [TIG+24]. **actions** [GNP20]. **activation** [DARJ23, PGS+24]. **active** [Kür23, YYH21, ZLV23]. **active-set** [YYH21]. **actuators** [MOA24]. **Adams** [TSL21]. **AdaPT** [DHK+21]. **adaptability** [WLL22]. **Adaptable** [DHK+21]. **adaptation** [ZWG+24]. **adapted** [GF21, GLSH21, MLD+22]. **Adaptive** [MDZ24, NVCS23, SVSC20, SS22, TSL21, YWM23, ASC+24, FAL20, FAL21, GP22, HMR22, KPR+24, KSF+22, MDR+20, PD23, PG23, RCB+20, SJP+21b, Tan24, WJB21, WDMZ24, BBV+22, BL21]. **ADAQ** [DIAA21]. **ADBSat** [SCMP+22, SCR+22b]. **added** [IKM+24]. **adding** [KL22]. **addition** [GBH20, TCcN23]. **additional** [CCK23, GDB10, LG21b]. **additive** [SYFT23]. **Additivity** [WV22]. **addressing** [YCCW23]. **ADG** [ATRD21]. **adhesive** [QCZ23]. **ADI** [HPY21]. **ADI-based** [HPY21]. **adiabatic**

[CGV+22, SZT24, Xav22]. **Adsorption** [BRAC23, DvHSdS22, GAJK23, PRR23]. **Advanced** [KLM+22, DFP+20, FA20a, RMR+22, WLL22, XLL+22, LS21b]. **advancements** [OXOG23]. **advection** [PLF20]. **aeroacoustics** [FZD+24, LIG+24, MVAXP22]. **aerodynamic** [SCMP+22, SCR+22b]. **aerosol** [WNS+21, WSK+22, YFL22]. **aerosols** [MK22]. **aerospace** [BDR+20]. **aerothermodynamics** [DFU20]. **against** [AES21]. **agglomeration** [FXQS21]. **aggregate** [Hal21]. **Aggregates** [FLK+20]. **aggregation** [DRSZ23, YD20, ZJS+20]. **Agnostic** [BHK+21, Gon22]. **AhKin** [GRCT20]. **AI** [TAY+24, ZHZ+23]. **AI-aided** [ZHZ+23]. **AICON** [FO20]. **AICON2** [FO21]. **aided** [MG22, ZHZ+23]. **AIHFLTF** [HY23]. **AIMSim** [BBV23]. **air** [SLL22, YKYK23]. **Algebra** [HW22, CB20, SCT21]. **algebraic** [ATC+23, GF23, LWhK+20, UZB22, UJ21, VÁFG+22]. **Algebras** [FKS20]. **Algorithm** [HA23, RCS21, AAB+21, AG21, AYWKL24, BKP22, Bar22a, Bel24, CL20, CZX+21, DRSZ23, DC22, DWD+24, GSBN22, IUJ21, Jab20, JLL+24, KIK20, KRE22, Kut20, LBRW22, LMX+21, LAD+21, LLZ+23, LJQ+22, LM22, LFZ20, LNB23, MWJL23, MD20b, MDP22, MM22, NTO24, Pag24, PAZ+22, PMS+20a, PGS+24, RSC+22, Roh22, SN23, SDP24, SRE+24, SJ20, SXW+20, SKC21, SS21b, SWB+23, TKS22, TKC+21, TCY23, VPPQ21, WWJ+22, WHSG24, YCC22, YYH21, Yan24a, YK21b, YNMR24, ZWP+22, ZWG+24, ZZC20, Zho23, dVAR+24, MMC+21]. **algorithmic** [CLEPF22, EML22, RBWD+24, PCS+23]. **Algorithms** [FFLR20, LWhK+20, NR21, BBV+22, AKL+21, Bak23, BC21, BL21, CLY22, CFPS23, GHK20, KSDH23, LNP+24, MGG+20, SJP+21b, TV24, TAY+24, WZK+24, XQ21]. **ALICE** [KvH21, NRG22, NRG24]. **aligned** [GBS+20, SBZ23]. **Aligning** [Kür23]. **alignment** [KMN21, SJY18, SJY20]. **all-atom** [HQF+20]. **all-electron** [GBR23, HLzY+20, LKP24, SLZY21, SDL+21]. **all-in-one** [GAJK23]. **all-Mach** [MA24]. **Allen** [CZY20, TCY23]. **allowing** [PTD20, RBV+22]. **alloys** [CGZ+20, CWG+21, FDPT23, GFH23, MMCC+22]. **AllScale** [OIA+20]. **almaBTE** [RMCC22]. **along** [HMM22, MM23, Ryd20]. **Alouette** [Nie23]. **ALPACA** [HWAA22]. **alpha** [PCL24]. **alteration** [NLS24]. **AlterBBN** [AAHJ20]. **alternative** [AAHJ20, LF20]. **aluminum** [BCTS22]. **Amazon** [RMM21]. **ambipolar** [VGGP+21]. **AMD** [OLNG21]. **ameliorated** [AGJ+23]. **AMFlow** [LM23]. **Amino** [OSLC21]. **AMMCR** [MMC+21]. **amorphous** [AMP+21, KKB+24]. **AMP** [YLH+20]. **amphiphiles** [YD20]. **Amplitude** [fWL24b, BN20, BN23, KRL+24]. **Amplitudes** [KMS20a, ADC+21, GHL23, HJK+24, PAM24]. **amplituhedron** [LM21b]. **AMR** [MOV21, PCS+20, WA21]. **AMR-based** [PCS+20]. **ana_cont** [KH23]. **analog** [MKHT20]. **analyse** [HHMH+22]. **Analyser** [ANU21]. **analyses** [GFD+24, PP21]. **Analysis** [BHK+21, CPL21, Dry21, GSM+22, KAB+21, KFC+20, SBZ23, AMP+21, AS22, ACD+22, BDP+21, BYL+21, CdBMdAS+21, COJ+22, CGG21, CL21, DFP+20, Eku24, EBBB22, FPSZ21, FA21, Gal22, GSL+23, GvdBdGN24, GVV22, GHKW22, Gro22, HS22, HT24,

HL21, Hor23b, HSO+22, IUJ21, Jab22a, JKKN23, KJL+23, KKB+24, KDHL23, KLM+22, LKP21, LLH21a, MMC+22, MGG+20, MZD+20, MYM+22, MRG22, NG21, NL23b, Nis22, PLT+23, PPK22, RDH+20, RZWW23, SKDH24, SMC+22, SRML20, SKS24, SFC20, SLDF+21, SCF20, SCMP+22, SCR+22b, Sva24, TPS+24, WXL+21, WLL22, WAYL23, WS23, Yev21, YLK+20, ZXW+22, ZDLS21, GOS+22, GG24]. **Analytic** [WMM+24, DML23, Hua23, KH23, KM22, MD22, PLT+23]. **Analytical** [CLEP24, Flo24, Jab22a, Rod22, CLEPF23, Mau20, MZV23]. **analyze** [AMP+21]. **analyzer** [YZ20a]. **Analyzing** [MMFdL21, DIKSN24, MKPW21, MKPW22, MRG22, YNV22, YNV23]. **Anderson** [NVCS23]. **angle** [LGK+22, SMC+22]. **angled** [AE23]. **angles** [MBCC23]. **Angular** [GF21, BFMA+24, CCW20, CWJ21, JDS20, Pos22, ST23a]. **angular-momentum** [ST23a]. **anharmonic** [MPSK21]. **anharmonicity** [BBB20, CZB+23]. **Animating** [GPD+22]. **Anisotropic** [MD20a, MBH21, BCHE21, BVV22, BDR+20, DRM20, FLK+20, GBS+20, LLH+21b, MM23, PGYF21, YNV22, YNV23]. **anisotropy** [GHL+22, RZWW23]. **annealer** [WWDM20]. **annealing** [RCS21, WWJ+22]. **Anniversary** [SHB+20]. **Announcement** [AAT+20, ASPDL+21, Pos22, SJP21a, Dio23, GST21, Jab22b, MBJB24, MPZB+24, ZXT23]. **annular** [SDXY23]. **ansatz** [SZ23, JWK+21]. **ANT** [SZT24]. **anti** [KTF22]. **anti-neutrino** [KTF22]. **antineutrino** [AG23]. **antinuclei** [KOT23]. **antisymmetric** [DEV20]. **any** [AKK+24, KKSV24]. **app** [HCAH+24]. **Appell** [ABF+23a]. **Application** [BCTS22, DSW+23, LBM+23, WWB22, XSL+22, XPF+24, BB24a, BBA+20, DS22, FKS20, GLB+21, GG24, HQF+20, LKP24, LLY+22, LMMP23, MMC+22, MYM+22, MCB+20, SPTPR21, SKS24, TCD20, YHH+20, CMS22]. **Applications** [Jab24, AFB+24a, BDR+20, FRN+23, Kan24, MMP20, OIA+20, RDC+20, TV24, Yan21a]. **applied** [AWV22, BDdM20, IUJ21, KFHR24, LJS21, TPCT22, YXX+21]. **applying** [AMP+21, Jia20]. **approach** [Ano20c, BOSM24, BB21, CPL21, CS22a, Che23, CB20, CLEPF22, Dau23, DR21, DVC+22, DBR24, EST23, GBS+20, GBD+22, GQ22, GP22, HHT22, KK16, KFHR24, LOT+20, LLH21a, MMM20, MSU+21, MOA24, MSM24, NAZ+21, PP23, PC21, RTRB21, TSAK21, WH23, WBvdH20, WYT23, Xav22, Xie23, YI22, YW21, YK21a, YD20, PBK21, SMO+20a]. **Approaches** [TRN+24, CGV+22, GSLS20, LF20]. **approximants** [PPK22]. **approximate** [WWJ+22]. **approximation** [AYI+24, AKL+21, BND22, CL22a, Dan23, JRS+21, OYC24]. **April** [Ano20a, Ano21a, Ano22a, Ano23a, Ano24a]. **Arbitrarily** [CWJ21, GZW20, BAB+20, GGCW24]. **Arbitrary** [OS24, ABD+23, COW24, CT23, GF23, LH22, LH24, MSM24, SDP24, SHS22, Sij23, WGG20, Xie23]. **arc** [ZGW20, RSPJ21]. **Architecture** [YK21b, AGH21, FAL20, FAL21, Nor23, RCS21, RL21, ZWZ+22].

**Architecture-based** [YK21b]. **Architectures** [LPSK20, DFG+23, DRB22, EPM23, LJS21, OGL+21, PNL+24, PSK+24, ZAW+21]. **arctangents** [BTW20]. **area** [ZDG+21]. **ARGES** [LS21b]. **argon** [BCF+24]. **arithmetic** [SC20]. **ARM** [OLNG21]. **arrangement** [MRG22, RAJ+24]. **arrival** [Hor23b]. **arrival-time** [Hor23b]. **ARSENY** [GSV23]. **art** [KMM21, KM20, KMS20b, SKM+21]. **ARTEMIS** [JYL+23, TDR+20]. **ARtificial** [UMA21, LPSK20, SWZ23, YKYK23, KHKL24, PMSHG23, ZHI23]. **artificial-neural-network** [KHKL24]. **ARUZ** [KHR+23]. **aspects** [JWK+21]. **assemblies** [SDP24]. **Assessing** [DTGE21]. **Assessment** [HA21]. **assignment** [FN21]. **assimilation** [MMYU22]. **assisted** [HPRS23]. **ASTI** [MMYU22]. **astroparticle** [LFZ20]. **astrophysical** [RDC+20]. **asymmetric** [SJY18, SJY20]. **asymmetry** [BMM21]. **atmospheric** [GSL+23, HA21, RAJ+24]. **Atom** [LCL+23, CLZ+21, FN23, HQF+20, HLzY+20, LHTP+24, PBK21, Pos22, SCT21, YNMR24]. **atom-atom** [PBK21]. **Atom-centered** [LCL+23, HLzY+20]. **atom-laser** [FN23]. **atomic** [ČPF+24, FMCB+20, Gai20, GK21, GTE21, GLSH21, GOCSS+23, GVV22, GSV23, Hor24, KRL+24, LWS+23, LU21, MMV+24, RSPJ21, RPG+20, TAB+22, UZB22, YT23, YKY+22, ZRH21]. **Atomistic** [Che23, ART+20, CGZ+20, CZTF23, IGL+24, MKPW21, MKPW22, SKC21, WLF+24, WBK+24, YZ20a]. **AtomREM** [NA20]. **atoms** [BAB+20, HY23, LWC+21, RZY+24, RZ23, SJP21a, SLLA22, TNL+22, WLF+24, ZLMH23]. **A}Tools** [YNV22, YNV23]. **attenuation** [GRCT20]. **attice** [FFTV23]. **Attosecond** [GM24, Koz23]. **augmented** [HM24, PLL24, WT22]. **August** [Ano20b, Ano21b, Ano22b, Ano23b, Ano24b]. **auto** [BS23, TAGC22a]. **auto-correlated** [BS23]. **AutoEFT** [HS24]. **autoencoder** [YLL+22]. **Automag** [GO23]. **automata** [SYFT23]. **Automated** [AUO+22, ATRD21, DSW+23, GSBN22, HS24, HLM22, LJS21, VZ20, ZLV23, ABH+23, GAJK23, HBM+24, HGS20, LBM+23, LEL+22, MOA24, YLH+20]. **Automatic** [DIAA21, DR21, MMM20, CGZ+20, CZB+23, GO23, XLG+23]. **automatically** [KKSV24, WYZZ23]. **automating** [UMA21]. **automation** [GAS+23]. **automatized** [WGGC22]. **AutoPas** [GSBN22]. **autoregressive** [BKS22]. **autotuning** [KMM21]. **Auxiliary** [MVK+24, Bag22, GJA21, LM23, WYT23, YK21a]. **auxiliary-field** [GJA21]. **averaged** [MOMO24]. **averaging** [MPSK21]. **avoiding** [WGS+22]. **Aware** [DS22]. **AX** [FLW+23]. **Axial** [RSM21]. **Axially** [MSN+22]. **Axially-deformed** [MSN+22]. **axisymmetric** [BJS+23, CEC+24, HSB+24]. **azimuthal** [LAD+21].

**B** [CCK23, AGH21, WGG20]. **B-spline** [WGG20]. **background** [BKO20, MGC+23]. **backscattering** [LGK+22]. **backward** [MM22]. **Baer** [Dau23]. **Baer-Nunziato** [Dau23]. **balanced** [MA24]. **balancing** [MLT+21, TPK+21, ZHZG23]. **Band** [RMFB23, WXZH24, BFD22, BMI23, CL20, DSQ23, GLN23, IMB+22, MFB23, SLZG20, SLL+24, WZZS21].

**bandstructure** [LKP24]. **Bang** [AAHJ20]. **Bardeen** [PTD20]. **Barna** [RMCC22]. **barycentric** [WVK21]. **baryon** [BMM21, DH20]. **Base** [TL20]. **based** [AZH+24, AAG+20, ABGD+20, ACD+22, AMA+20, ASC+24, BCHE21, Bar22a, BFCR24, BCGT24, BTW20, CDD22, CLS22b, CZWE23, CTPS22, Dau23, DFU20, DP21, DSQ23, ENK24, FN21, FJ22, FYW23, FLW+23, FMBD22, Gal22, GDK21, GAGO21, HPY21, HL21, HTL+22, HT20, HWL+23, HFP21, HWZ24, HWAA22, Hor24, HBM+24, HLCD20, HHT+24, IJVJ21, JLW24, JKSY22, KKLZ23a, KKLZ23b, KTF22, KRJ23, KPR+24, KMN21, KSF+22, KHR+23, KR23, KL23b, KKB+24, KM23, KRE22, KG21, LEE+24, LGDF20, LAD+21, LLC+23, LWS+23, LY24b, MHÅ21, MMCC+22, MEDT+23, MSU+21, MMV+24, MBCC23, MSM24, MRD23, NSY+23, NJSY22, OIA+20, OBGA24, OSK+21, OLNG21, ONH+20, PMS+20a, PAL+20, PM21, PCS+20, QCZ23, RMCC22, RZY+24, Di 22, SKEZ24a, SRC21, SDP24, SLB+23, SBG23, SWTC23, TCY+21, TPS+24, TAB+22, TLC+21, UD24, VB22a, VV21, eSdSBST21, WAET22]. **based** [WPMK21, WVK21, WKJB23, XFH+22, YFL22, YCCW23, YKK+23a, YSX+20, YZHL22, YKSH20, YMCF23, YK21b, YKK23b, YZZ+23, ZWC+20, Zha20, ZRZ+21, ZWZ+22, ZLY24, ZRH21, Zho23, ZHZG23, ZCS+24, SKEZ24b]. **bases** [HY23, ZRH21]. **Bashforth** [TSL21]. **Basic** [Gro22, HW22]. **Basics** [BC22]. **basis** [DEV20, FASD20, HLzY+20, JZW+22, LM22, MSN+22, MLD+22, MSHP02, MSHP20, VCHH23, VTB+21, WGG20, YJLW21]. **Batched** [HW22]. **Bateman** [CLEPF22]. **bath** [CLY22]. **Bayesian** [CV21, KKP22, HGS20, MTY+22, NG21, TV24]. **BaZrO** [DSW+23]. **BCS** [RSM21, Jia20]. **BDDC** [SFS22]. **BDK** [KMS20a]. **BDSIM** [NBS+20]. **beam** [MGC+23, PK24, TLC+21, TCcN23]. **beam-target** [TLC+21]. **beams** [HTL+22, PMSHG23, SKEZ24a]. **BEC2HPC** [GTA21]. **BECs** [SCL22]. **BEEC2.0** [YZW22]. **behavior** [JLL+24]. **behaviour** [LP24, MES+24]. **Behler** [vdHKB+23]. **Belle** [BBB+21]. **belt** [DRM20]. **belts** [NS20]. **Benchmark** [KFPV21, SNP+20]. **Benchmarking** [ASA+22, MGC+23]. **benchmarks** [KPL+21, WKR23, ZJM+21, ZRH21]. **BerkeleyGW** [LACL24]. **Berry** [RCP+24]. **BESLE** [GPM+21]. **Bessel** [CCK23, GDB10]. **beta** [AG23]. **Betaboltz** [RCB21]. **Bethe** [JWK+21, LG21a, SA23, ZAW+21]. **BetheSF** [LG21a, LG21b]. **between** [BMREC21, BLN+21, CXCZ23, Efr20, Efr21a, MRT+22, Tan23, UZB22, YLL+22, ZJM+21]. **beyond** [AFJ+23, COJ+22, DDM20, KKSV24, MSG+21, UMA21]. **Bézier** [ET24]. **BGK** [LSW+20]. **BGSDC** [TBAR21]. **Bhatnagar** [FJ22]. **bi** [BA24, LLH+21b]. **bi-anisotropic** [LLH+21b]. **bi-directional** [BA24]. **bi-Lebedev** [LLH+21b]. **biasing** [PYT+24]. **BiconeDrag** [SPTPR21]. **bifold** [Kar23a, Kar23a]. **Big** [AAHJ20]. **Big-Bang** [AAHJ20]. **billion** [CLZ+21]. **BIMBAMBUM** [SSPF24]. **bimetric** [Tor20]. **bimEX** [Tor20]. **binary** [LLT+23, LLQ+23, LB24, NDFL24, VHBK21, ZLLM23, ZCWY20]. **Binding** [DSQ23, JPJ+23, KVSC21, LZK+23, NKP20, WPMK21, ZYLY22, NKP20].

**BinPo** [MFB23]. **bio** [COJ+22]. **bio-shield** [COJ+22]. **biofilm** [OCE+23]. **Biofilm.jl** [OCE+23]. **biomedical** [MVF20]. **biomolecular** [DCZ23]. **biophysical** [PNL+24]. **Biot** [SSH+23]. **bipartite** [CL22a]. **Bipolar** [WSK+22]. **Bit** [Fis24]. **Bit-twiddling** [Fis24]. **Black** [BLN+21]. **Black-box** [BLN+21]. **blackout** [GSL+23]. **blade** [KKY24]. **BLAS** [HW22]. **blende** [HLCD20]. **blends** [BMR+24a]. **Bloch** [GLB+21, MONW21, RCP+24, RJ21]. **block** [Cos22, RAJ+24, UJ21, ZJ23]. **block-pressure-velocity** [UJ21]. **blocking** [AWV22]. **blood** [ZMC23, ZHZ+23]. **blowup** [HWZ24]. **Bluues2** [SOH+23]. **BNP** [CCG21]. **board** [AAG+24, Ano20e, Ano20f, Ano20g, Ano20h, Ano20i, Ano20j, Ano20k, Ano20l, Ano20m, Ano20n, Ano20o, Ano20p, Ano21o, Ano21d, Ano21e, Ano21f, Ano21g, Ano21h, Ano21i, Ano21j, Ano21k, Ano21l, Ano21m, Ano21n, Ano22d, Ano22e, Ano22f, Ano22g, Ano22h, Ano22i, Ano22j, Ano22k, Ano22l, Ano22m, Ano22n, Ano22o, Ano23d, Ano23e, Ano23f, Ano23g, Ano23h, Ano23i, Ano23j, Ano23k, Ano23l, Ano23m, Ano23n, Ano23o, Ano24c, Ano24d, Ano24e, Ano24f, Ano24g, Ano24h, Ano24i, Ano24j, Ano24k]. **bob** [SPTPR21]. **Body** [GBJ+21, ATRD21, DC22, JDS20, KWK+21, MAJ20, NTO24, OS24, PPKK21, RMM21, Xav22, XBL+20]. **body-of-revolution** [NTO24]. **Bogner** [CCK23]. **Bogoliubov** [ATRD21, CLS+22a, MSN+22, SKDH24]. **Boltzmann** [ASC+21, AHP21, AS24b, BBA+20, CK20b, CKT21, DACA+22, DCZ23, JMOC21, KFPV21, KBSH20, KAS24, LFL+24, LSS24, MWJL23, MD21, NL23a, PPR+21, PLSB22, QCZ23, STA20, WJB21, WWB22, WHB21, WA21, WKR23, YCCW23, YSI+24, YM21, YD20, ZPZH20, ZPL+24]. **bond** [HLCD20]. **bond-orbital** [HLCD20]. **bonded** [VXT+23]. **boom** [EOR21]. **boosting** [CFL+22]. **Bootstrapped** [ZJ23]. **BORAY** [sXBkB+22]. **Boris** [DML23, ZK20]. **Born** [SOH+23, XZLX20]. **Bose** [BKRG22, KRG21, MBA21, RVM+21, SKDH24]. **boson** [BHH+20, DDM20, KKM+20, SZ23, GKIB21]. **bosons** [AKK+24, ABB+22]. **BoSS** [GKIB21]. **both** [RVRT22]. **bounce** [GNP20]. **bound** [GTMB21, MZ22]. **Boundaries** [LM21b, FBMD20, GPN20, NR21, TS23, XSM22]. **Boundary** [GPM+21, ATC+23, ELSV24, FYW23, FMHH24, GVV22, HPAW21, KD23, MD20a, MVF20, NL23a, PLL24, PCL24, RZH22, STA20, SP20, SXYD24, TCD20, TTM22, WXY20, WXZH24, Yan21a, YSI+24, YSX+20, YXX+21, YJ24, ZPZH20, Zha20, ZPL+24]. **boundary-cascaded** [ZPZH20]. **bounded** [DAC+23, HPAW21]. **Boussinesq** [TL20, TSL21]. **Boussinesq-type** [TL20]. **BOUT** [DKM+24, SDXY23, WXW+21, ZSqXY21]. **box** [BLN+21]. **brackets** [CLVV22, Efr21b, Efr23, SMGK21]. **Braginskii** [BJL+24]. **Bratu** [Ano20c, KK16]. **Brazilian** [CCG21]. **breakdown** [CHA21]. **breast** [BSG+21]. **Breit** [HA23, WBvdH20]. **BREMS** [Pos22]. **bremsstrahlung** [EMM+23, Pos22]. **bridge** [WHSG24]. **bridge-inspired** [WHSG24]. **bridging** [Yan23]. **Brillouin** [Dür23]. **BROADCAST** [PCS+23]. **broadening** [Bul21]. **Brownian** [DG20]. **Brute** [JRG21, XSM22]. **brute-force** [XSM22]. **Brute-forcing** [JRG21]. **BSHF** [WGG20]. **BSM**

[BBH+23, PAM24]. **BSMArt** [GJ24]. **BSMPT** [BMM21]. **BTE** [RMCC22]. **BTE-Barna** [RMCC22]. **bubble** [SSPF24]. **bubbly** [LMHL20]. **build** [IGL+24]. **building** [MPH+24]. **bulk** [DAA+24, SLDF+21, WGS+22, MMC+22]. **buried** [CML+24]. **Burn** [ZYG21]. **Burn-up** [ZYG21]. **Burnup2.0** [ZYG21].

**C** [ADC+21, Dan23, DH22, DLD+21, FXZT21, FTG23, GCK21, Kar23b, KMU+23, Koz23, MVF20, SW23, UMA21]. **C#** [Gro22]. **C-code** [GCK21]. **C1** [ZJM+21]. **Cache** [AWV22]. **caching** [PWC24]. **CAD** [OBGA24]. **CAD-based** [OBGA24]. **Cadabra** [CFPS23]. **CAGE** [RHW+21]. **Cahn** [CZY20, KSF+22, LM21a, LHC20, TCY23, Yan21b]. **Cahn-type** [TCY23]. **CALANIE** [MD20a]. **Calc** [BMR+23, BMR+24b]. **calculate** [DZZ21, Efr20, GTE21, LL23, PB23]. **Calculating** [BGH22, GBH20, AAHJ20, BGHC23, CL20, CSW24, FO20, FO21, GO23, GBR23, HTL+22, HHT+24, Jab20, KSG22, LKP24, LLS+21, LLZ+22, MKPW21, MKPW22, RPG+20, SLZG20, SP23, YKSH20]. **Calculation** [BRHT21, Efr21a, Efr21b, SLLA22, SMGK21, UZB22, WKBW21, ZYG21, AUEO24, BRAC23, BMR+24b, BND22, CL21, DCRF23, DS20, ENK24, FASD20, GTMB21, JKST22, KvdW20, KKLZ23a, KKLZ23b, Kar23a, KT23, KM20, KMS20b, LYC20, LEL+22, LHG+20, MMC+21, MMP+24, Mar22, MPZB+24, NAZ+21, NAZ+22, Och23a, Och23b, OYC24, Ols23, Pos22, SJP21a, TMC22, TB20, UO20, WGGC22, XOTI22, BMR+23]. **calculations** [ADW+23, AAMY23, AJW+21, AM21a, BHH+20, BR20a, BLN+21, CLY22, CFBRE24, CMS22, Cas24, ČPF+24, Dan24, DvHSdS22, Fon21, GM20, HY23, Hor24, IJVJ21, Jab22a, JPJ+23, KCS22, LVB22, LWS+23, LLS+21, LG23, MBJB24, MBC+24, MAJ20, MSHP02, MSHP20, MDR+20, NVCS23, DARJ23, Pot24, RDV+20, RCP+24, RG21, RSPJ21, RTRB21, SY20, SMB20, SLL+24, SXW+20, SDL+21, SC22, SOH+23, UMA21, VCF22, VvBTH20, WZZ+23, WXZH24, YT23, YHY+21, YLH+20, ZRH21, ZHM21]. **calculator** [ABH+23, FCTFR20, Kut24, MBTB21, SKEZ24a, UAS22]. **calculus** [BSK+22, CLEPF22, KMR22]. **calorimeters** [ABF+23b]. **Camassa** [ZYXC24]. **can** [SWZ23]. **capabilities** [KGT22]. **capability** [FA20a, MCB+20]. **capacitively** [JĎD+21]. **capacity** [LHWX24]. **capsules** [TKC+21]. **capture** [TAE+21]. **capturing** [LF24]. **Caravel** [ADC+21]. **carbon** [PK24, PWC24]. **cardiovascular** [AFB+24a]. **Carlo** [ABGD+20, ASPDL+21, ACD+22, AJW+21, BRAC23, BB21, BCF+24, BKO20, BKS24b, BIK+21, BKBL22, BKG+23, CCM20, DRSZ23, DDM20, DdCAG23, ELSV24, FXQS21, GJA21, GAGO21, GHK20, HT24, HLMB24, HQF+20, Hua23, HSMR+24, Ilt21, JWW+23, JKKN23, JĎD+21, KOT23, Kal20, Koł22, Koł23, LEE+24, LMWW24b, LAC21, LTMK21, LLL24, LC24, LHWX24, MMM23, MT23, NL23b, Nie22a, OBL+21, PAZ+22, PLT+23, PYT+24, PPR+21, PC21, RSC+22, RCB21, Roh22, SNP+20, SJP+21b, SHS22, SNG20, SLIC24, TAY+24, WAN+22, WSRO24, WZPW20, YLK+20, ZHS+20, ZDLS21]. **Carlo-effective** [PC21]. **carlomat_4.0** [Koł22]. **carrier** [TQGE23].

**Cartesian** [HG22, LEE+21a, RVRT22]. **cascade** [CLZ+21, SZY+22]. **Cascaded** [AHP21, ZPZH20]. **cascades** [BKO20, EES24]. **case** [ABFP24, Jia20, TPS+24]. **catalysts** [RSC+22]. **Catalytic** [KBSH20]. **Causal** [Bel24, CDT22]. **cavitation** [SSPF24]. **cavities** [BBA+20, DKRSR22, WYHW24]. **CBM** [GBJ+21, SCF20]. **CCA** [TCY+21]. **CCS** [KWK+21]. **CDFTPY** [VCF22]. **CDPDS** [KR23]. **CDT** [BLG24]. **cdugksFOAM** [WLZ+24]. **Celebrating** [SHB+20]. **Celeris** [TL20]. **Cell** [FAL21, YYC+23, ASC+24, BCHE21, BC21, BTK24, CTZW23, DBH+22, FN21, FYM+22, LMX+21, LAD+21, LM20, MFS+22, Mar22, MRH+23, MLT+21, NTO24, OCR+22, PSMRS+23, PGYF21, RC23, SXYD24, SWB+23, TWR21, Ume22, XSM22, XHY+24, YC20, YWX+23, ZK20, ZDSS23, ZLS+22, DFG+23, DWD+24, FAL20, FA21, KG21, OGL+21, SAC+21]. **cell-centered** [PGYF21]. **Cell/Monte** [JDˇD+21]. **CellListMap.jl** [Mar22]. **cells** [BMP+24, LLR23, ZHM+24]. **cellular** [SYFT23]. **Center** [SMO+20a, BKP22, BJS+23, GDS+21, LM22, MHP23, SSB+23, XQ21]. **center-evolving** [LM22]. **centered** [HLzY+20, LCL+23, PGYF21]. **centering** [ZLS+22]. **central** [AAG+24, For22, GST21, WGG20]. **centrality** [YZL+23]. **CepGen** [For22]. **cepstral** [EBBB22]. **cerebral** [dMMLOS20]. **Cerman** [MHÅ21]. **CFD** [ADF+22, PCS+23, SJWL22, AFB+24a]. **CGMF** [TSJ+21]. **Chain** [HSMR+24, HQF+20, LWhK+20, LTMK21, MMM23, VFS23, WGS+22, EGKH24]. **chains** [EGKH24, LF20]. **chalcogenides** [SKS24]. **chambers** [TAGC22a]. **Chandrasekhar** [Jab20]. **change** [RSD20, SRT+20]. **channel** [CGV+22, GOS+22]. **channeling** [Nie20]. **channels** [ABWZ23]. **Chaos** [GBJ+21]. **chaotic** [SRML20]. **character** [YZ20a]. **characterisation** [ANU21]. **characteristic** [XDF20]. **characteristics** [CL21, CTPS22]. **characteristics/diamond** [CL21]. **characteristics/diamond-difference** [CL21]. **characterization** [HMM22, SLBR22, vTDGCR21]. **charge** [BTK24, DBM+24, FN21, KKLZ23a, KKLZ23b, OCR+22, RC23, SWB+23, ZPL+21]. **charge-conserving** [FN21]. **Charged** [KKSV24, TGGC23, AAD+24, BFL+22, SLP+22, SLLA22, SA23]. **charges** [FH22]. **charging** [WSK+22, YFL22]. **Chebyshev** [BND22, LS22]. **chemi** [Nis23]. **chemi-topology** [Nis23]. **chemical** [AHM+23, FCTFR20, FBC+21, MPZB+24, RCX24, RHW+21, SVJ+24, ŻTR+22, CV21]. **chemically** [CZWE23, Gal22]. **chemicals** [BBV23]. **cheminformatics** [BBV23]. **Chemistry** [GM24, BLN+21, CNS22, Koz23, OCE+23, PM21, RAJ+24, XFGS24]. **Chern** [GBR23]. **chi** [GST21]. **chi-square** [GST21]. **chip** [DHK+21]. **CHIPR** [RV20, RV21, Xav22]. **chiral** [LU21, YLL+22]. **Chirally** [HHT22]. **choice** [SRK+24]. **Chromodynamics** [KK20]. **Chrono** [ZTV+24]. **cij** [LDW+21]. **CIMBA** [Ilt21]. **circuit** [OV23, YWX+23]. **circuits** [WHSG24, dBBVA20]. **circular** [NG21]. **CITDSE** [FN23]. **CKBIT** [CV21]. **CLAS12** [TAGC22a, TAGC22b, TGGC23, TGIM23]. **class** [FYW23, GGCW24, YZW21]. **Classical**

[TNL+22, GSV23, KF23, PSK+24, SLLA22, VCF22, XQ21]. **Classification** [SLL+21, BBA+20, DR21, Nis23]. **classifiers** [KHKL24, VEHCM21]. **Clifford** [KF23]. **Clinamen2** [WBK+24]. **clinical** [BSG+21]. **CLIP** [UO20]. **cloak** [YWM23]. **closure** [BJL+24, LMMP23]. **clots** [ZHZ+23]. **cloud** [RMM21]. **CLT** [ZJM+21]. **clumps** [OAP+24]. **Cluster** [Nis23, ZZC20, CHY+24, DRSZ23, HAM+20a, PPKK21, YX24, ZWG+24]. **cluster-cluster** [DRSZ23]. **Clustering** [DR21]. **cm** [FYM+22]. **CMInject** [WAK22]. **CMS** [TPS+24]. **CNOK** [SW23]. **CNUCTRAN** [BOSM24]. **coagulation** [WNS+21]. **coarse** [MBCC23, NA20, OCK+24, ZKZ+24, Zho23]. **coarse-grained** [MBCC23, OCK+24, ZKZ+24]. **Coarsest** [EVFRHR23]. **Coarsest-level** [EVFRHR23]. **coaxial** [YMCF23]. **Code** [OGL+21, RSM21, VXT+23, YX24, ZYG21, ASS+24, AAG+20, ABGD+20, ARLDG24, AMA+20, AAHJ20, ASC+24, BJL+24, BFD22, BFCR24, BCTS22, BDA+20, BCSS24, CR20, CFBRE24, CZA+23, CAC+22, CAWK22, CZS+21, COJ+22, CTZW23, CZB+23, CKC+21, CESD+23, Dan23, DMS+22, DIK+23, DFU20, DSQ23, DBH+22, DHE+24, Dry21, DBdFdSR21, EBBB22, EES24, FMCB+20, FFTV23, FAL20, FAL21, GRCT20, GCK21, GBD+22, GLN23, Hua24, JKST22, Jia20, Kal20, Kar23a, KAB+21, KWZ24, KJL+23, KBH+24, KMU+23, KDK23, KT23, KSIL22, Koz23, KAG24, Kul20, LEE+24, LOT+20, LG23, LVMGF+23, LDW+21, LJS21, MG22, MGX24, MFB23, MPS+24, MBC+24, MRH+23, MSU+21, MHP23, MAMK21, MXH+24, MDR+20, NUK+22, NSY+23, NBS+20, NL23b, NDFL24, Nis22, Nor23, Och23a, Och23b, OAP+24, OLNG21, PP23, PLSB22, PWC24, RMR+22, RCP+24, RV20]. **code** [RV21, RMFB23, SLK23, SMA24, SP23, SHW+21, SPF21, SZNW23, SBB+24, SW23, TSJ+21, TMC22, TCSD24, UÁEPGBP24, WKBW21, WXL+21, WXX24, XSM22, sXBkB+22, XHY+24, YHH+20, YGSW21, YLK+20, YJ24, ZMC23, ZJM+21, ZDSS23, ZXW+22, NUK+22]. **code-generation** [LJS21]. **codes** [BMREC21, BPMMP24, DRM20, LSF23, MLT+21, MT23, PSMRS+23, SRT+20, SAC+21, TWR21]. **coefficient** [LN23]. **coefficients** [DLD+21, Efr20, Efr21a, EBBB22, GF21, MBTB21, NRKA22, ÖAÖ24, PDD24, TAE+21]. **COGENT** [KDK23]. **coherent** [Jia20, KMBP24, MR22, MS24, Roh22]. **coherent-pair** [Jia20]. **cold** [BGW+22]. **ColESo** [Bak23]. **collaborative** [DBBP23, WLL22]. **Collection** [Bak23, Pot24]. **collective** [ASA+22, GLW+23]. **collider** [GPD+22, YZW22]. **colliders** [JWW+23]. **collinear** [GOCSS+23]. **collision** [BDK+23, BKS24b, CKT21, CLZ+21, KSJ+22, KDK23, SNP+20, WJB21, WWB22]. **collisionality** [BJL+24]. **collisionality-extended** [BJL+24]. **collisionless** [NBB+21]. **collisions** [Ada22, BCT20, BKBL22, CJD+20, For22, GBJ+21, GSV23, JĎD+21, MBH21, MEH21, NRG24, SLLA22, WLF+23, YZL+23]. **collocated** [KFC+20]. **collocation** [FYW23, YNMR24]. **colloidal** [BMT+20, BLM+22, DG20]. **color** [GG24]. **combination** [ADH+20, BRAC23, HT24]. **combinatorial** [JWK+21]. **combined** [ACD+22, HK24, LF24, LZP+24]. **combining** [LACL24, SHW+21, ZYML24].

**combustion** [Di 22]. **COMET** [YLK21]. **Comm** [AAT+20, Ano20c, MSHP20, SJY20]. **command** [Kut24]. **command-line** [Kut24]. **commensurate** [NNMJ22]. **Comment** [CCK23]. **Commics** [PRS+20]. **common** [DAA+24]. **Commun** [FAL21, MKPW22, Och23a, YNV23, ZYX22]. **communication** [GSL+23, KMM21]. **communications** [BGR23]. **community** [YCC22]. **compact** [PLL24]. **Comparative** [SKM+21]. **Comparing** [DAA+24]. **Comparison** [HWZ24, NCF+23, SLZ+24, TV24, TM24, EVMP20, GSLS20]. **Compatibility** [GOCSS+23]. **Compatible** [Sij23, BCD+21, OBC+24]. **compiler** [VB22a]. **Complete** [CS22b, YK21b]. **complete-search** [YK21b]. **complex** [ASPDL+21, ABD+23, CZS+21, CL22a, DIKSN24, GFH23, HMR22, KHKL24, KDIN+23, LLT+23, LLQ+23, LLH+21b, MD20b, NR21, SN23, SXYD24, SFC20, SBP20, WZZS21, WHSK24, WZK+24, YMCF23]. **complex-valued** [CL22a]. **complexity** [GJA21]. **component** [ABB+24, BSC+21, DKM+24, HWL+23, YWTK23, Yev21, ZYXC24]. **component-based** [HWL+23]. **composed** [KAG24]. **composites** [BDR+20, FLK+20, SRK+24]. **compound** [NRK+21]. **compounds** [AMP+21]. **comprehensive** [GWA+23, MPS+24]. **compressible** [Bak23, BMSP21, BBA23, BSC+21, Dau23, DAC+23, GSL24, GB22, HMR22, HWL+23, HJGL22, LF24, LJH+23, LIG+24, LJS21, MA24, PCS+23, RLW+24, RCW+20, SPLD20, Tan24]. **compression** [LMHUR23, TW21b, VPS23, WXZH24]. **compressional** [YYC+23]. **compressive** [LLH21a]. **Comput** [AAT+20, Ano20c, FAL21, MKPW22, MSHP20, Och23a, SJY20, YNV23, ZYX22]. **Computation** [CT23, LY22, ADC+21, BV21, Bag22, DLD+21, GTA21, GST21, KF23, KGT22, KYH24, KD23, LG21a, LM23, LY24b, LLR23, MG22, MBTB21, PBK21, RZ23, UÁEPGBP24, WZZS21, YYZ+22]. **Computational** [AMA+20, OSLC21, PRS+20, VHBK21, AFB+24a, BMREC21, BB24a, BMR+24a, BBA23, DBBP23, EL24, FZD+24, FLW+23, HPAW21, HPP23, LWS+23, LSF23, LP24, MOA24, MSM24, NAZ+21, RGS+21, SHB+20, Tan23, TW21b, TRB20b, WMM+24, WNS+21, WSK+22, XFGS24, YNMR24, ZHM+24, Gal22, OLNG21]. **computationally** [AGJ+23, BKS24a, RDZ+20]. **computations** [CLVV22, CDD22, CGR21, DNG+20, MMM20, RDR+20, RHLTG+22, Tor20]. **compute** [Ham20b, KKSV24, KMM21, LBM+23, MSH22, MFB23, MONW21, PAM24, RVRT22, SFBG20]. **computed** [WKJB23]. **Computer** [AGK+23, Jia20, PBK21, SCT21, CZB+23, Dry21, EOR21, MPZB+24, NAZ+22, OYC24]. **computers** [EVFRHR23]. **Computing** [DEV20, TGBM22, TAE+21, BOSM24, CR20, CZS+21, CCC20, CGV+22, EBNS22, GAS+23, GSV23, HYL+22, HTL+22, HXS20, HHVB21, HA23, Hid21, Hua24, KIK20, KPL+21, LGBJ20, LJS21, SMO+20a, SLB+23, SCF20, TBAR21, Ume22, WXY20, WXL+21, WICA22, Xie23, YS22, YJLW21, dMMLOS20]. **concentrated** [PLSB22]. **concentrations** [BOSM24, TQGE23]. **concurrent** [AS24a, ZWC+20]. **condensate** [BKRG22, Jia20, KRG21, RVM+21].

**condensates** [MBA21, RPG+20, SKDH24]. **condensed** [Jab22b, Jab24, Sch21, Tan23]. **condition** [CdBMdAS+21, MMP20, NL23a, RZH22]. **conditions** [CMS22, FMHH24, GVV22, HMM22, MD20a, MVF20, PLL24, PCL24, STA20, SP20, WXY20, XZLX20, Yan21a]. **conduction** [Bel24, MM22]. **conductivity** [AS24a, FO20, HYL+22, KMG+20, LDGN24, MMC+21, MPN+21, WLCF21]. **confidence** [CTPS22]. **configuration** [AAMY23, GF21, LWS+23, PRR23]. **configurational** [BRAC23]. **configurationally** [GFH23]. **configurationally-complex** [GFH23]. **configurations** [CW22, IUJ21, LDGN24, MMM23, sXBkB+22]. **confined** [WGS+22]. **confinement** [CW22, LLH21a, TKC+21, XSL+22, ZLL+24]. **conformal** [Bzo21, HHT22, OKBM23]. **conical** [SPTPR21]. **conjugate** [AUEO24]. **connecting** [SZ24a]. **Conservation** [MM23, Yev21, HWAA22, LY24a, OCR+22, RC23]. **Conservative** [FMHH24, CCW20, DTC20, Gon22, TCSA21, TCY23, WKR23, YZ20b]. **conserved** [CZY20, Nog21b, PYT+24, ZWP+22]. **conserving** [BC21, BTK24, FN21, PMK+23, Sij23, SWB+23, TIG+24]. **considerations** [CHA21]. **Consistent** [vRCM21, BN20, BN23, FH22, KM22, Kut20]. **consistently** [YWTK23]. **constant** [FCTFR20, Pag24]. **constants** [CT23, LLS+21, LLZ+22, LEL+22, NL23b, PB23]. **constitutive** [LLY+22, MEC+24]. **Constrained** [GHK20, KWK+21, LVMGF+23, DR21]. **constraining** [TRN+24]. **Constraint** [SE24]. **constraints** [AAHJ20, KM22]. **constructing** [RBWD+24, Xav22, ZYL+23]. **Construction** [HTS+21, Kor23, NNMJ22, SKS24, HS24, Kan24, Ols23]. **Contact** [MBCC23, ZTV+24]. **Contact-based** [MBCC23]. **Contacts** [Gul20, MBCC23]. **content** [May21]. **context** [EVMP20]. **continental** [Org22]. **continuation** [FBMD20, FMBD22, Hua23, KH23, KM22]. **continuity** [AIZ23, FN21]. **continuous** [HK24, LS22, MKHT20, SNG20]. **continuous-time** [MKHT20, SNG20]. **Continuum** [SSB+23, GDS+21, STRF+20, TAB+22, TCSD24, VV21, ZWZ+22]. **Contraction** [Dju20, YK21b]. **Control** [AAA+20, BB21, Cas24, COW24, JM24, MOV21, RHW+21, RBWD+24, RRM+23]. **controlled** [OS24]. **Controlling** [BKB+21]. **CONUNDrum** [GM20]. **convection** [HA21, RSD20, SRT+20, XDF20]. **convective** [KKPC23]. **convergence** [ABFP24, DTGE21]. **convergent** [WLF+23]. **conversion** [ACKB23, PPK22, ŻTR+22]. **Converter** [ACKB23]. **convex** [LHG+20, Yan24a]. **convolutional** [TAGC22a]. **CoolFOAM** [FCSP20]. **cooling** [EBNS22]. **CoolProp** [FCSP20]. **Cooper** [PTD20]. **coordinate** [BR20a, CLS+22a, MSU+21, WH23, WXX24, YJ24]. **coordinate-scaled** [BR20a]. **coordinate-space** [CLS+22a]. **coordinates** [ALB22, BJS+23, CZB+23, SSB+23]. **copolymer** [CZY20, LM21a]. **copolymer/homopolymer** [LM21a]. **core** [CXCZ23, CL21, KMM21, OGL+21, SDL+21]. **corepresentations** [LZYY23].

**cores** [WWM+22]. **corona** [DBR24]. **coronaChargingFoam** [YFL22]. **corrected** [AKK+24, KKM+20, SA23]. **correction** [CS22a, MD20a]. **corrections** [BKG+23, KM20, KMS20b, WLCF21]. **correlated** [AMK24, BS23, HAM+20a, SP23]. **correlation** [Bzo21, PSK+24]. **CorrelationFunctions.jl** [PSK+24]. **corresponding** [CGV+22]. **Corrigendum** [AAT+20, Ano20c, MKPW22, MSHP20, Och23a, ZYX22]. **cortex** [dMMLOS20]. **COSE** [GLW+23]. **cosmic** [Mau20, MNS+24, SBG23, VPPQ21]. **cosmic-ray** [Mau20]. **cosmological** [Bar22a, VPPQ21]. **cosmologies** [AAHJ20, Kar23b]. **cosmology** [CFPS23]. **Cost** [RL21]. **Cost-efficient** [RL21]. **Coulomb** [AB21, CXCZ23, RZ23, SSB+23, TRN+24, TNL+22]. **counting** [GvdBdGN24, ZWG+24]. **COUP** [AKK+24, KKM+20]. **Coupled** [KR23, ASU+21, BKRG22, BGW+22, CZY20, CGV+22, GTMB21, JLL+24, JĎD+21, KRG21, KMBP24, KSF+22, Koz23, KFPV21, KBSH20, LM21a, MEC+24, MPH+24, MVAXP22, MBA21, OCC23, PTH24, PBC+24, PPKK21, RVM+21, STRF+20, TWR21, VGGP+21, Xav22, XPF+24, ZCWY20, Zho23]. **coupled-channel** [CGV+22]. **coupled-cluster** [PPKK21]. **Coupling** [MEDT+23, RSC+22, YLK+20, AG21, BRHT21, CCC20, Dau23, Gai20, GF21, GOCSS+23, HTL+22, JMOC21, LLC+23, LACL24, PDD24, SHRK22, TLC+21, WXZH24, XLL+22, YD20, Gai20]. **couplings** [HLM22]. **covariation** [HL21]. **CP** [LEE+21a]. **CP3d** [GWA+23]. **CPC** [SHB+20]. **CPL** [STRF+20]. **CPU** [DMS+22, Dür23, GB22, HG22, PSK+24, RCX24, SBG23]. **CPUs** [CZTF23]. **Crank** [LNB23]. **creation** [WAN+22]. **criterion** [MHÅ21]. **critical** [GO23, ZYG21]. **criticality** [PAZ+22]. **Cross** [SJY18, SJY20, AS22, AYB24, BFMA+24, DS20, Hor24, Jab24, OSK+21, PYT+24, SY20, SLLA22, ST23b, WLL22]. **Cross-platform** [SJY18, SJY20, OSK+21]. **cross-section** [WLL22]. **cross-sections** [AYB24]. **crossings** [GSV23]. **crosslinking** [ZBS+23]. **Crystal** [GK21, LS23, Dan24, EGLK20, FPSZ21, Kor23, PRR23, RZ23, TCY23, YML+24, ZHS+20, dSOZ22, CZA+23]. **crystalline** [GBR23, MPSK21, WLF+24, YLH+20, vTDGCR21]. **CRYSTALpytools** [CZA+23]. **crystals** [MSH22, SLL+24, SPF21, TRB+20a, WZZS21, WXZH24, ZYL+23]. **CSEM** [Yan23]. **CSL** [XSM22]. **CSPlib** [DIKSN24]. **cubic** [Ilt21]. **CUDA** [BKP22, BLM+22, DS22, JRG21, JS24, NS20, STA20, SKEZ24a, SKEZ24b, WKJB23, XHY+24, YW21]. **CUDA-Aware** [DS22]. **CUDA-based** [SKEZ24b, SKEZ24a]. **cuFFT** [HT24]. **cumulative** [GST21]. **CUR** [LMHUR23]. **current** [EBBB22, FN21, SWB+23, VTB+21]. **currents** [VPS23]. **Curvature** [KWK+21]. **curve** [ET24, ZLV23]. **curved** [PMS20b, YXX+21]. **curves** [DZZ21]. **curvilinear** [ALB22, MSM24, PD23]. **custom** [Kan23, Kan24]. **customizable** [Mar22, ZTV+24]. **cutoff** [Mar22]. **CVODE** [PTH24]. **cycle** [VTB+21]. **cyclic** [LF20]. **Cyclically** [CGR21]. **cyclotron** [DFP+20, FYM+22, WXX24]. **cylindrical**

[Flo24, LEE+21a, WXX24].

**D** [YYZ+22, ALB22, ATC+23, BKP22, BRAC23, BGW+22, CAC+22, CZS+21, CCW20, Dau23, DFG+23, DRZ+21, DBH+22, GTE21, GPM+21, GUW+22, GSL+23, GOS+22, IGL+24, JLW24, JĎD+21, KWZ24, KNJ+23, LEE+21a, LLZ+23, LS22, LLH+21b, MMP20, MPH+24, NUK+22, NSY+23, NT24, PMS+20a, PGYF21, RMCC22, RBFB20, Sch21, SP20, SLDF+21, SCL22, SBB+24, TCSA21, WJB21, WWB22, WKBW21, WZC21, WT22, WWDM20, XFH+22, XLG+23, YNV22, YHY+21, YKY+22, ZGW20, ZL20]. **D-2V** [TCSA21]. **D-3V** [DFG+23]. **D-VIRTUS** [MMP20]. **D-Wave** [WWDM20]. **D/3** [Dau23]. **damping** [CFW+23]. **DAMQT** [KLM+22]. **Darcy** [Yan21b]. **Dark** [BHK+21, ABB+24, EMM+23, LSZ23, May21, PAM24, BCD+21, GUAD22, OBC+24]. **DarkNews** [AZH+24]. **DarkPACK** [PAM24]. **Data** [AAA+20, CFW+23, HCAH+24, HSO+22, KvH21, MMYU22, MYM+22, SMC+22, ACD+22, AES21, ANU21, BYL+21, BS23, CGG21, DR21, DFP+20, Dry21, GvdBdGN24, Hua23, JKKN23, KvdW20, KIK20, KFHR24, LM22, LSF23, OSE+20, PNL+24, PP21, RDH+20, RdSH+24, SPTPR21, SJ20, SRML20, SLIC24, SCF20, SHRK22, TRN+24, TC24, WBF+24, WKJB23, WYZZ23, XLG+23]. **Data-analysis** [MYM+22, CGG21]. **Data-driven** [CFW+23, HCAH+24, HSO+22, SMC+22, LSF23, WYZZ23]. **data-structures** [SJ20]. **datasets** [BBV23]. **day** [BR20a]. **DCA** [HAM+20a]. **De-noising** [TAGC22a]. **Debugging** [SAN24]. **Debye** [DRZ+21, XFH+22]. **Debye-type** [XFH+22]. **decay** [AG23, ABWZ23, ABH+23, Hor23b, LWhK+20, LF20, Sat21, TSJ+21, VFS23]. **decays** [AKK+24, CV24, DDM20, KKM+20, KKSV24, KM20, KMS20b]. **December** [Ano20d, Ano21c, Ano22c, Ano23c]. **decomposition** [GHL23, KFHR24, LGDF20, LAD+21, LY24b, MRD23, OCR+22, TGS+20, VPPQ21, YYY22, ZLY24]. **decompositions** [CKT21, RYS+24]. **decoupled** [LM21a, Yan21b]. **decoupling** [ZWZ+22]. **Deep** [GUAD22, MM22, TSAK21, TGIM23, YYZ+22, ZGW20, BKG+23, KKY24, MLZ+23, ZWC+20, LWC+21]. **DeepBHCP** [MM22]. **DeepFlame}** [MLZ+23]. **DeePKS** [CZWE23]. **DeePKS-kit** [CZWE23]. **defect** [Ham20b, Pot24, TQGE23]. **defects** [AM21a, DIAA21, TR22, vTDGCR21]. **defined** [KKSV24]. **definition** [YZL+23]. **deflation** [Kub24]. **deformation** [AE23, SN23]. **deformed** [MSN+22, VvBTH20]. **degeneracy** [TRN+24]. **degree** [LMWW24a, WJB21]. **DeHNSSo** [WHSK24]. **Delft** [WHSK24]. **delta** [Bul21, CJD+20, MM23]. **delta-** [CJD+20]. **DEM-Engine** [ZTV+24]. **Deneb** [YKK23b]. **denoising** [HGS20]. **dense** [BCTS22, BRHT21, KHR+23, KKL21, MHK24, zYMK+21]. **densities** [WKBW21]. **Density** [MVK+24, QJ21, BGW+22, BW23, CPL21, CZWE23, DMS+22, DH20, FASD20, FWL+24a, GM20, GBR23, GBD+22, HFP21, IJVJ21, IUJ21, JRS+21, Kar23a, KLM+22, LYC20, LR22, MHK24, MDP22, MDR+20, Pag24,

SLE+22, SXW+20, SLZY21, SHW+21, TMC22, VCF22, YT23, ZLLM23]. **density-functional** [GBD+22, SXW+20, SLZY21, TMC22]. **density-in** [Kar23a]. **density-in/dependent** [Kar23a]. **DensityTool** [LR22]. **dependence** [BAB+20, YZL+23]. **dependencies** [AS24a]. **Dependent** [BBB20, MVK+24, BAB+20, Dio23, GSLS20, GBD+22, HSB+24, Hor23a, JRS+21, KPST21, Kar23a, KKPC23, KM23, LY22, LY24b, NLS24, SGS23, Scr22a, WJB21, WWB22, WHB21, WBvdH20, XSL+22, YSMBA23]. **depletion** [BKB+21]. **Deploying** [LSF23]. **deposition** [HTL+22, KPR+24, SWB+23, TLC+21]. **derivation** [NYN+21, PSW23, PSW23]. **derivatives** [GOST23, Rod22]. **derived** [CMJC21, RG21]. **DescMAP** [ZLV23]. **described** [MBCC23]. **description** [GSV23]. **descriptor** [ZLV23]. **descriptors** [HJM+20]. **design** [AGMFGE23, AS24a, CZX+21, HSB+24, KL23b, MMCC+22, MOA24, RdSH+24, VB22a, XLG+23, YWM23]. **designs** [HK24]. **detailed** [RCX24, SPF21]. **detect** [KIK20]. **detection** [EGKH24, JKST22, KRJ23, LMQ+23, PNL+24]. **detector** [CGG21, Kan24, NRG22, NRG24, TAGC22b]. **detectors** [ABGD+20, KTF22]. **determinants** [AJDS+21]. **determination** [HSO+22, LN23, NBC+24, PWC24, ZLV23]. **determine** [DEdM24, HHMH+22, MDP22]. **deterministic** [CHA21]. **detonation** [PD23, SWTC23]. **detonationFoam** [SWTC23]. **detrended** [GHKW22]. **develop** [WAET22]. **developed** [JMOC21, LHWX24, MG22]. **Developing** [WRM+24, CZWE23]. **Development** [BKP22, COJ+22, CKC+21, CLEPF22, DBV+24, JKSY22, KMN21, LBM+23, LIG+24, MGX24, OBC+24, DARJ23, VLS22, ZMC23, ZDSS23, ZYG21, DBBP23, DSW+23, HWL+23, OIA+20]. **developments** [GAA+20]. **devices** [BMI23, BM22, HSB+24, KK20, KNJ+23, RMCC22, RdSH+24, ZHM+24]. **dfemtoolz** [MVF20]. **DFMSPH22** [GCK21]. **DFT** [DMS+22, GOCSS+23, LG23, MSG+21, MDR+20, RCP+24, VMRFC23]. **DFT-FE** [DMS+22, MDR+20]. **DG** [PMK+23, YKK23b]. **diagnostic** [PSMRS+23]. **diagnostics** [JSS+24]. **diagonalization** [ACS+22, KF23, LQ21, LQGL21]. **diagonally** [KBSL22]. **diagram** [BMI23]. **diagrammatic** [MSY+21]. **diagrams** [ATRD21, Gro23, MSH22, MRD23, PCL24, RUV20, WSRO24]. **diamond-difference** [CL21]. **DIAPHANE** [RDC+20]. **Diatomic** [RV21, YZ20b, BGHC23]. **Diatomic-py** [BGHC23]. **diblock** [CZY20]. **dichotomy** [TCY+21, YX24]. **dichroism** [NG21]. **Dicke** [VCHH23]. **dielectric** [MHÅ21]. **difference** [CL21, Cos22, CESD+23, GMZ+20, KBSH20, SP20, WDMZ24, Zho23, dSOZ22]. **difference/spectral** [GMZ+20]. **difference/spectral-Galerkin** [GMZ+20]. **differences** [BGH22, GBH20]. **different** [HWZ24, KFC+20, PLL24, SLZ+24]. **differentiable** [AS24b, BBA23, FSMM24, MFS+22, XLG+23]. **Differential** [ASW20, AS22, ASU+21, DEdM24, Jab24, LWhK+20, Lee21b, ZLY24]. **differentiation** [MMM20, RCP+24, PCS+23]. **DiffExp** [Hid21]. **diffraction**

[HMYH22, HSO+22, KYH24]. **diffractive** [ST23b]. **diffuse** [LY24a, YWTK23]. **diffuse-interface** [YWTK23]. **diffusion** [BB24b, DRM20, GBS+20, GHL+22, GMZ+20, HSMR+24, KBB21, KHR+23, LN23, PTH24, PGYF21, SRML20, SS21b, TWW22, WSK+22, XDF20, YFL22, ZYX21, ZYX22]. **diffusive** [MP21]. **dihedral** [MBCC23]. **dilepton** [BKBL22]. **dimension** [GSLS20, GG24, ZJ23, dMMLOS20]. **Dimensional** [RBV+22, AHP21, BV21, BM22, BKO20, BR20b, BSK+22, CLS+22a, CL21, Dan24, DS20, DH20, DKRSR22, GMZ+20, HT24, Hid21, KLD+21, KM23, KMD+21, LW24, LMQ+23, LHTP+24, MD20b, MSH22, MFB23, MOMO24, MYM+22, MCP23, NA20, OCE+23, PMK+23, PD23, SRT+20, SLZ+24, SMC+22, SXYD24, TTM22, UÁEPGBP24, WXZH24, WZPW20, ZDG+21, Zho23]. **dimensionless** [RDZ+20]. **dimensions** [EPM23, JRS+21, SRE+24]. **dimuonium** [UAS22]. **dimuonium-matter** [UAS22]. **dipolar** [YSMBA23]. **dipole** [Arn20, KR23]. **Dirac** [FKK+21, GOST23, Kut24, LY22, MN21, SJP21a]. **Direct** [IJVJ21, RV21, ZYXC24, BOSM24, BMSP21, GUAD22, GWA+23, JKST22, NUK+22, WWZ+23, YFL22, YCCW23, ZPZH20]. **direct-addressing** [YCCW23]. **direct-drive** [NUK+22]. **Direct-Fit** [RV21]. **Direct/split** [ZYXC24]. **direction** [ALB22]. **directional** [BA24]. **DIRQFAM** [BN20, BN23]. **discharges** [DBR24, MMP20]. **disconnected** [KDHL23, LMWW24a, WSRO24]. **discontinuity** [CAC+22]. **Discontinuous** [CJ21, DGM20, SVSC20, SDBS24, FRN+23, FMHH24, HWL+23, HWZ24, IPSW24, JKSY22, KSJ+22, KMD+21, MGX24, MPQ+22, QWZ+21, SMA24, SS21b, YXX+21, ZJS+20]. **Discovering** [TC24]. **Discrete** [LSW+20, MYMK+21, ZTV+24, BSK+22, CFBRE24, GLB+21, HK24, HTL+22, JGJ20, KCS22, KMR22, LHC20, LHG24, ONH+20, QCZ23, SRC21, YW21, Zha20, ZWP+22, ZZ21a, KWZ24]. **discrete-event** [SRC21]. **discrete-time** [JGJ20]. **discretisation** [SBZ23, WJB21]. **discretization** [DMS+22, EOR21, GBS+20, LC24, PMK+23, SVSC20, SFS22, TKS22]. **disjoining** [NLS24]. **disk** [RDR+20]. **Disks** [DG20]. **dislocation** [YZ20a]. **disordered** [MBCC23, TRB20b, YLLW24]. **dispatch** [SAC+21]. **dispersion** [KR23, LLL24, MSH22, Pöt20, PPK22, RVRT22]. **dispersive** [DNG+20, DRZ+21, XFH+22]. **displacement** [GLSH21, XSM22]. **disruption** [HEF21]. **dissipation** [KFC+20, Kul20]. **Dissipative** [DVC+22, DHE+24, JCM20, CGSO20, DC22, DH20, UD24, XBL+20, BKB+21]. **distance** [Zha20]. **distances** [TGBM22]. **distinguishability** [OV23]. **distorted** [OYC24, PGYF21]. **distorted-wave** [OYC24]. **Distributed** [NRG22, GMZ+20, KvH21, KFHR24, RSC+22, TPS+24, zYMK+21]. **distributed-order** [GMZ+20]. **Distribution** [BJS+23, BCSS24, CCMR21, GST21, KKB+24, KAG24, NBC+24, PK24, SXW+20, YZ20a]. **distributions** [BKS24a, BFL+22, BFMA+24, KPST21, Pos22, SJ21, SMC+22, Xie23]. **Disturbance** [LJH+23, HJGL22]. **Divergence** [LGDF20, MOV21, YZW21]. **Divergence-free** [LGDF20, YZW21]. **divertor** [YHH+20]. **divided** [BGH22, GBH20]. **DIZET** [AGK+23]. **DLBFoam** [TPK+21]. **DMFT**

[MSY+21]. **DMFTwDFT** [SHW+21]. **dmscatter** [GJJN23]. **DNMOGA** [WYHW24]. **DNS** [LBS+23]. **DoFun** [HCP20]. **Domain** [SDBS24, AS24a, DGM20, DRZ+21, ET24, HPAW21, KD23, LY24b, MRD23, PNL+24, PPK22, RRC+24, TTM22, YZW21, YYY22, Yan23, ZLY24, ZWG+24]. **Domain-specific** [SDBS24]. **domains** [CZS+21, NR21]. **DoNOF** [PM21]. **donor** [BMR+24a]. **donor/acceptor** [BMR+24a]. **Doppler** [GRCT20]. **dot** [GLB+21]. **dots** [PC21]. **Double** [VB22b, ABF+23a, GCK21, Kar23a, TNL+22]. **double-folded** [Kar23a]. **Doublet** [KM20, KMS20b]. **down** [Gon22]. **down-sampling** [Gon22]. **DP** [ZWC+20]. **DP-GEN** [ZWC+20]. **DPD** [LBM+23]. **Dragon** [MHK24]. **DRalgo** [EST23]. **Drawing** [Gro23]. **DREAM** [HEF21]. **Drell** [AFJ+23]. **Drift** [ZSqXY21, TAGC22a]. **drive** [NUK+22]. **driven** [AE23, BM20, BGW+22, CFW+23, HCAH+24, HSO+22, LKK23, LLH21a, LSF23, PMSHG23, PLT+23, SMC+22, SBP20, WYZZ23, ZYG21]. **Driver** [BMREC21]. **driving** [FDPT23]. **DRM** [YKK23b]. **DRM-DG** [YKK23b]. **droplet** [AE23]. **Droplets** [PLSB22]. **Drude** [LW24]. **DSc** [Dry21]. **DScribe** [HJM+20]. **DSMC** [ZWZ+22]. **DSQSS** [MYMK+21]. **dual** [CJZ21, NTO24, WXZH24, WVK21, ZTV+24]. **dual-GPU** [ZTV+24]. **duct** [OSE+20]. **Duffing** [BDdM20]. **DUGKS** [KWZ24]. **DUGKS-GPU** [KWZ24]. **Duguet** [CCK23]. **dump** [Ham20b]. **dune** [BDR+20]. **during** [Dan24, MRG22, ZDG+21]. **dust** [LLT+23]. **dye** [NI22]. **Dynamic** [MLT+21, MRD23, BBB20, DRM20, KGT22, MRH+23, PCS+20, SXW+20, TPK+21, YD20, ZHZG23]. **dynamical** [CE22, DWD+24, GLSH21, HTL+22, JGJ20, MBH21, MEH21, TC24, SHW+21]. **dynamically** [RCB+20]. **Dynamics** [AMA+20, DVC+22, DHE+24, JCM20, MKPW21, MKPW22, YD20, vRCM21, AFB+24a, BB24a, BMR+24a, BBA23, BCTS22, CLY22, CGSO20, CLS22b, CZTF23, CHY+24, CDT22, CL22b, DTGE21, DC22, Dio23, DH20, FFTV23, GVV22, Ham20b, HyLF23, HWZ24, KF23, KCJX24, KMM21, LLT+23, LLQ+23, LN23, LF24, LSF23, LVMGF+23, LJS21, MHP23, MHK24, MBCC23, MRG22, NRKA22, NS20, NI22, OEI+22, OAP+24, PCS+20, Sch21, SKC21, SC22, SSPF24, SSD+22, SJY18, SJY20, TM24, UD24, VXT+23, VRI24, VCHH23, WNS+21, WSK+22, Wor20, WS23, XBL+20, XQ21, XLKX21, ZHI23, ZJS+20, ZPL+21, BKB+21, LWC+21, OLNG21]. **dynamos** [TPCT22]. **DynDen** [DTGE21]. **dyons** [MCP23].

**EAST** [BYWW23]. **easy** [MD20b, WKBW21]. **easy-to-implement** [MD20b]. **easy-to-use** [WKBW21]. **EasyScan_HEP** [SZ24a]. **ECCPA** [SLLA22]. **ECOGEN** [SPLD20]. **ecology** [OCE+23]. **ECPSSR** [Hor24]. **ECRad** [DFP+20]. **Eddy** [CJ21, VPS23, VTB+21, YCC22]. **eddy-current** [VTB+21]. **edge** [GUW+22, RSHS24, SDXY23, SBZ23, WPMK21, WRM+24, YWM23]. **EDIpack** [ACS+22]. **Editorial** [Sco21, Ano20e, Ano20f, Ano20g, Ano20h, Ano20i, Ano20j, Ano20k, Ano20l,

Ano20m, Ano20n, Ano20o, Ano20p, Ano21o, Ano21d, Ano21e, Ano21f, Ano21g, Ano21h, Ano21i, Ano21j, Ano21k, Ano21l, Ano21m, Ano21n, Ano22d, Ano22e, Ano22f, Ano22g, Ano22h, Ano22i, Ano22j, Ano22k, Ano22l, Ano22m, Ano22n, Ano22o, Ano23d, Ano23e, Ano23f, Ano23g, Ano23h, Ano23i, Ano23j, Ano23k, Ano23l, Ano23m, Ano23n, Ano23o, Ano24c, Ano24d, Ano24e, Ano24f, Ano24g, Ano24h, Ano24i, Ano24j, Ano24k]. **education** [DBBP23]. **effect** [MD20a, YYC+23]. **Effective** [BBB20, DPR+20, DRR+24, HLCD20, DZZ21, EST23, GTE21, HS24, NYN+21, PC21, RTRB21, TM24]. **Effects** [LLT+23, LLQ+23, ASA+22, BC21, CW22, DBM+24, GVV22, JGJ20, VGGP+21]. **Efficacious** [GLSH21]. **Efficacy** [MLD+22]. **Efficiency** [KBSL22, TPCT22, HTL+22, KRJ23, PP21, SKEZ24a, Tan24, XHY+24]. **Efficient** [AJDS+21, BP21, BW23, CE22, CZY20, DFG+23, EPM23, EL24, GHKW22, HG22, JĎD+21, KPST21, KCS22, KBB21, LG21a, LM21a, MK22, Mar22, PPK22, SRC21, SLZY21, SNG20, SFC20, TAY+24, UÁEPGBP24, WGS+22, YWTK23, Zeb22, ZCWY20, ZX23, AG21, AGJ+23, BND22, CDD22, DEdM24, DBdFdSR21, EGLK20, GRCT20, GHL+22, GP22, JZW+22, JPJ+23, KWZ24, KYH24, LBRW22, LLH21a, LAD+21, LXY+21, LLZ+23, LLL24, LLZ+22, LVMGF+23, LSS24, MD21, MVF20, MRN20, PSMRS+23, PPKK21, PWD22, RZH22, RZ23, RL21, STA20, SFKC22, SS21b, SWB+23, WYT23, WS23, YSX+20, ZPL+24, ZHM21, dVAR+24]. **efficiently** [YZW21]. **EFIT** [BYWW23]. **EFT** [CFL+22]. **eigenfunctions** [BV21]. **Eigenmode** [DNG+20]. **eigenmodes** [FBA+20]. **eigenproblems** [zYMK+21]. **eigensolver** [FKK+21, zYMK+21]. **eigensolvers** [AAMY23, FWL+24a]. **eigenspectrum** [LG21a]. **eigenvalue** [DNG+20, LLH+21b, MG22, WHSG24, ZJ23]. **eigenvalues** [BV21, IMB+22]. **Eilmer** [GDJG23]. **Einstein** [BKRG22, KRG21, LB24, MBA21, RVM+21, SKDH24]. **ElasT** [LVB22]. **ELAStic** [FLK+20, KC21, BFD22, BDA+20, CT23, EL24, Jab22b, Jab24, LLS+21, LLZ+22, LEL+22, LLY+22, MD20a, NAZ+22, ONH+20, PB23, RZWW23, SJP21a, SLLA22, SLDF+21, YNV22, YNV23, ZZZ+20, NAZ+21]. **Elastic3rd** [LLS+21]. **elasticity** [GPM+21, WGGC22, XZLX20]. **ElasTool** [EL24, LEL+22]. **elastoplastic** [BR20b]. **ElecTra** [GLN23]. **electric** [AE23, WLCF21, YI22]. **Electrical** [HMM22]. **electrified** [Di 22]. **electro** [YC20]. **electro-magnetic** [YC20]. **electrochemical** [ZHM+24]. **electrode** [PK24]. **electrodynamics** [FH22, GPN20]. **electrolyzers** [ZHM+24]. **electromagnetic** [BVV22, BKO20, DRZ+21, EES24, LOT+20, LKP21, NTO24, OGL+21, SWB+23, WAYL23, YR21, ZLS+22]. **electromagnetics** [WMM+24]. **electroMicroTransport** [GDK21]. **electromigrative** [GDK21]. **Electron** [ABGD+20, LACL24, Ada22, ASA+22, AJDS+21, BCF+24, COW24, CW22, DRM20, DFP+20, DVC+22, FMCB+20, FYM+22, GBR23, GSV23, HAM+20a, HMYH22, HM24, HA23, HEF21, Hor24, HBM+24, HLzY+20, Jab24, KKB+24, LKP24, LSS24, MMP+24, MFB23, MGC+23, MAMK21, MPH+24, MZD+20, Nie22a, Pos22, SFBG20, SLE+22, SLL22, SLZY21,

SDL+21, SP23, ST23b, TCcN23, TGIM23, WLF+23, YZW22, ZPL+21]. **electron-atom** [Pos22]. **electron-impact** [FMCB+20]. **electron-ion** [ST23b]. **electron-phonon** [MMP+24, ZPL+21]. **electron-positron** [HA23]. **electron/positron** [HBM+24]. **Electronic** [BLN+21, BSS+23, BGR23, DSQ23, DKRSR22, FASD20, GWPW21, GLN23, HY23, HTH+20, HLzY+20, JPJ+23, MBG+20, NVCS23, PAL+20, PPKK21, PTD20, RL21, TCSD24, YHY+21, zYCD+20, ZHM21]. **electronically** [CMJC21]. **electronically-derived** [CMJC21]. **electrons** [CXCZ23, DTC20, Dan24, Jab22b, Jab24, MBG+20, SJP21a, SLK23, ZYX21, ZYX22]. **electrophoretic** [KPR+24]. **electrophysiology** [VSM+22]. **electrostatic** [ATC+23, CGR21, KG21, LSW+20, YWX+23, ZYX21, ZYX22]. **electrostatics** [FAL20, FAL21, LYX22, SOH+23]. **Electroweak** [KM20, AJW+21, BMM21, KMS20b]. **Element** [Sha21, ZTV+24, ALB22, BM20, BCHE21, ČPF+24, DMS+22, EPM23, Flo24, GPM+21, IGL+24, JMOC21, KSDH23, KBB21, KM23, KD23, LLC+23, LHC20, MPS+24, MVF20, MDR+20, MCB+20, OCR+22, ONH+20, OKBM23, QCZ23, RSD20, SRT+20, SKDH24, SLC+22, SBB+24, TCD20, TTM22, WZZS21, WWZ+23, WXZH24, XDF20, XLG+23, YT23, YWM23, YJ24, ZZ21a, VB22a]. **element-based** [LLC+23]. **element/multipole** [YT23]. **Elementary** [PDD24]. **Elements** [GSL24, AIZ23, BGH22, DBV+24, LZ21, RZ23, TIG+24, TWW22]. **ellipses** [CTPS22]. **elliptic** [BSK+22, BDR+20, WW21]. **ELMAG** [BKO20]. **ELPA2** [zYMK+21]. **elsepa** [SJP21a]. **ELSI** [zYCD+20]. **Embedded** [AAG+24, TW21a]. **embedding** [AMK24, QJ21]. **EMcLAW** [MOV21]. **emerging** [DRB22]. **emission** [CML+24]. **Empathes** [BFD22]. **empirical** [CWG+21, KVSC21, MMCC+22, NA20, Pot24]. **employing** [VMRFC23]. **empowered** [MLZ+23]. **emulsions** [GUAD22, PLSB22]. **enable** [XQ21]. **enabled** [GSL24]. **Enabling** [OBGA24, TDR+20]. **encapsulated** [Nie23]. **encoded** [ZPL+24]. **encoders** [TAGC22a]. **Encoding** [GPN20]. **end** [MFS+22]. **end-to-end** [MFS+22]. **ended** [YMCF23]. **endpoint** [LP24]. **energetic** [JSS+24, LJQ+22]. **energetic-particle** [JSS+24]. **energetics** [TQGE23]. **Energies** [AJW+21, GTMB21, GBJ+21, Pos22]. **Energies-Updates** [AJW+21]. **energization** [WXX24]. **Energy** [BMR+23, BTK24, PMK+23, AGJ+23, ABB+22, BRAC23, BC21, BCCM+24, CZWE23, CGV+22, Dan24, EES24, FXZT21, FTG23, Gar21, GZW20, GGCW24, GFD+24, HMYH22, HTL+22, HSO+22, IJVJ21, IUJ21, JS22, KSF+22, Kut20, LM21a, LW24, MD20a, Man24, MBTB21, MSHP02, MSHP20, NRK+21, NA20, NYN+21, NBB+21, PRR23, Pöt20, RG21, RC23, RV20, RV21, SRC21, SE24, SLL22, SMC+22, SVJ+24, Sij23, TV24, TLC+21, UO20, VZ20, VvBTH20, WZZ+23, Xav22, XZLX20, YWTK23, Yan24a, ZWC+20, ZCWY20, ZDLS21]. **energy-angle** [SMC+22]. **Energy-conserving** [PMK+23, BC21]. **energy-momentum** [Pöt20]. **energy-preserving** [GGCW24, LW24]. **energy-stable** [KSF+22, YWTK23, Yan24a]. **energy-strain** [XZLX20]. **Engine**

[GBJ+21, GLW+23, RCB+20, ZTV+24]. **Engineering** [ANU21, FYW23]. **enhance** [MPS+24]. **enhanced** [BBC+24, CWG+21, MLT+21, RdPS24, SBB+24, XLKX21]. **enhancement** [TTM22]. **Enhancing** [KHKL24, MCB+20, SLL22]. **ensemble** [SHRK22, TNL+22]. **ensembles** [GLB+21, VCHH23, WGS+22]. **Ensign** [CE22]. **entangled** [CL22a, ECS23]. **Entanglement** [HPP23]. **entanglements** [KDHL23]. **entropy** [MMCC+22]. **entry** [GSL+23]. **environment** [GAA+20, OIA+20, OSE+20, Scr22a]. **environments** [ART+20]. **ePDFpy** [KKB+24]. **EPI** [MMP+24]. **epidemic** [CF21]. **EPW** [LACL24]. **eQE** [MSG+21]. **EQMO** [ZHM21]. **equal** [Efr23]. **Equation** [GMPG+21, LS21b, LY22, OSE+20, RS20, ZHM21, AIZ23, ATC+23, BB24b, BAB+20, Bul21, BBA+20, CS22a, CKT21, CCW20, CWJ21, DSSW22, ENK24, FN21, GSLS20, GLPG+23, GMZ+20, HXS20, HWZ24, KMR22, KPL+21, KFPV21, LZ21, LHC20, LFL+24, LY24b, LSS24, OEI+22, OKBM23, PPR+21, SVSC20, SGS23, SP20, SLZ+24, SCL22, TTM22, TS23, WHB21, WXY20, WZC21, WKR23, XSL+22, YSMBA23, YNMR24, YJ24, ZAW+21, dVAR+24, ZXT22, ZXT23]. **equations** [ASU+21, AGH21, BV21, BKRG22, BCGT24, CR20, CLEPF23, CLEP24, DGM20, DH22, DEdM24, GTA21, GHL+22, GGCW24, HPY21, HWL+23, HCP20, JM24, JZW+22, JRS+21, KRG21, KBB21, KSF+22, KMD+21, Koz23, KRE22, LWhK+20, LGDF20, LW24, MSN+22, MOV21, PMK+23, PLL24, PSW23, PG23, Pöt20, QWZ+21, RJ21, TSL21, VFS23, WGG20, WYZZ23, XDF20, XPF+24, YZW21, YXX+21, YKY+22, ZCP+22, ZLY24, ZX23, ZZZ+20]. **equilibria** [BJS+23]. **Equilibrium** [MMP20, BYWW23, Dau23, DVC+22, HPAW21, LBM+23, LZ21, MES+24, MEC+24, SYFT23, WJB21, WWB22, WHB21, YKYK23, ZCS+24, SGM+20]. **ERCS08** [Hor24]. **ERCS24** [Hor24]. **ERNIE** [AG23]. **erosion** [YGSW21]. **Erratum** [FAL21, SJY20, YNV23]. **error** [JKKN23, MZ22, MNS+24, SSH+23, THH21]. **errors** [RVRT22]. **ERSN** [LEE+24]. **ERSN-OpenMC-Py** [LEE+24]. **ERYA** [MMC+22]. **ERYA-Bulk** [MMC+22]. **ERYA-Profiling** [MMC+22]. **escape** [NA20]. **ESPRESSO** [HHT+24, MONW21]. **Essentially** [MGX24]. **estimate** [EBBB22]. **estimating** [GO23, GBJ+21, GG24, SKC21, WV22, YMCF23]. **Estimation** [VEHCM21, AM21b, LMWW24b, LWV20, MPN+21, NG21]. **Euler** [GWA+23, HWL+23, YXX+21]. **Eulerian** [LMHL20, MSM24, ODR+22, Sij23, TKC+21, THH21, WWM+22]. **EUTERPE** [KBH+24]. **evaluate** [FLW+23]. **Evaluating** [MYKC23, NVC20, BA24, BTW20, Bzo21]. **Evaluation** [ABD+23, GOST23, PSK+24, ABF+23a, Arn20, ATRD21, BC20, HAA+20, NSU20, PBC+24, SRML20, SSV22, TR22, WW21, XZLX20]. **evaporation** [AYB24, HyLF23, OSE+20]. **event** [AAA+21, AZH+24, ACD+22, AG23, BIK+21, BKG+23, For22, GPD+22, HQF+20, JWW+23, LTMK21, PNL+24, SRC21, SJP+21b, Sjö20, SBP20, VEHCM21, YLK21, ZDLS21]. **event-chain** [HQF+20, LTMK21]. **event-driven** [SBP20]. **event-time-frame** [GPD+22].

**events** [DRSZ23, Hor23b, SKC21]. **EvGen** [BKG+23]. **Evolution** [OSLC21, ZDG+21, BCGT24, GF23, HFP21, MZ22, VGGP+21, ZZ21b]. **Evolutionary** [DR21, KMG+20, HTS+21, WBK+24]. **evolving** [LM22, OS24]. **EW** [SY20]. **ewN2HDECAY** [KM20]. **Exact** [GF23, ACS+22, Bak23, BR20a, BBA+20, GQ22, KW23, LG21a, LQ21, LQGL21, LHTP+24, Pag24, RC23, Tor20]. **Exactly** [Man24]. **exactness** [FFLR20]. **ExaHyPE** [RCB+20]. **example** [YYZ+22, ZGW20]. **examples** [CLVV22, SOH+23]. **exascale** [DRB22, DFU20, ZDSS23]. **exascale-oriented** [DFU20]. **exchange** [BR20a, CSW24, XLKX21]. **excitations** [LL23, UÁEPGBP24]. **excited** [NRK+21, QJ21, RHW+21, RBWD+24]. **excitonic** [DSQ23]. **excitons** [PC21]. **exclusive** [For22, ST23b]. **expanded** [RSPJ21]. **Expanding** [LTT+24, Ber24, FFTV23]. **Expansion** [HJJ+22, LHZ20, SNG20, YT23, Zho23]. **expansions** [ABD+23, FMBD22, Hid21]. **experiment** [SCF20, YLK21]. **experimental** [BC20, MYM+22]. **experimentally** [MES+24]. **Experiments** [KMN21, AGJ+23, BDP+21, BCD+21, DG20, OBC+24, ZDLS21]. **Explicit** [QWZ+21, Bel24, CJ21, DS22, PMK+23, YZW21]. **Exploiting** [RZ23]. **Exploration** [HPRS23, MMCC+22]. **explorer** [AES21, LSZ23]. **Exploring** [AS24a, DG20]. **explosion** [TRN+24]. **exponential** [CCK23, EOR21, GDB10, GBH20, IJVJ21, QWZ+21, YNMR24]. **express** [ZGZW23]. **expression** [ENK24]. **extendable** [KVSC21]. **Extended** [BCTS22, BJL+24, BMM21, IJVJ21, KKSV24, TSL21]. **Extending** [KL23a]. **Extensible** [ZGZW23, GAGO21]. **extension** [DSSW22, HYL+22, KMS20a, LHG+20, LLR23, MCMS24, RMCC22, SVSC20, SDXY23]. **extensions** [CK23, MSY+21]. **extensive** [CNB+23]. **exterior** [BSK+22, KMR22]. **external** [LG21b, YWX+23]. **Extraction** [PK24, LS21a]. **extragalactic** [BKO20]. **extrapolation** [KW23, YLL+22]. **extreme** [CGSO20, GH21, HXS20, LYZL24]. **extreme-scale** [HXS20]. **EZ** [SWB+23].

**FabSim3** [GAS+23]. **facilitate** [LSF23]. **Facilitating** [FDPT23, WXL+21]. **FACt** [RPG+20]. **factor** [CCK23, GDB10, SZNW23]. **factorised** [HHT22]. **factorization** [CCC20]. **factors** [MKPW21, MKPW22]. **false** [Sat21]. **far** [DVC+22, WJB21, WHB21]. **far-from-equilibrium** [WHB21]. **far-off-equilibrium** [DVC+22]. **far-out-of-equilibrium** [WJB21]. **FaSE** [TW21a]. **FaSE-GLoBES** [TW21a]. **Fast** [CLY22, DCZ23, HAA+20, Ilt21, IUJ21, KF23, Pag24, WZC21, WOP+20, BV21, BDGS21, CGR21, CB20, ENK24, FBA+20, GJ24, GJJN23, GB20, KKLZ23a, KIK20, KT23, KYH24, MSH22, OCE+23, STA20, SSD+22, TCD20, TTM22, TPK+21, TLC+21, TBAR21, WVK21, WXX24, Xie23, XOTI22, YLLW24]. **Fast-QSGS** [YLLW24]. **fast-update** [XOTI22]. **faster** [TB20]. **FaVAD** [vTDGCR21]. **FCC** [TCY23]. **FDTD** [KGN+21, LKP21, LW24, XPF+24]. **FE** [DMS+22, MDR+20, UO20]. **FE-CLIP** [UO20]. **FeAmGen.jl** [fWL24b]. **feature** [ABK+22]. **feature-rich** [ABK+22]. **features**

[LTT+24, SLK23, SMO20b, WHSK24]. **February** [Ano20q, Ano21p, Ano22p, Ano23p, Ano24l]. **FEL** [ASA+22]. **FELINE** [SLC+22]. **FEM** [EVMP20, XLG+23]. **FEMPAR** [BM20]. **FEMS** [Sha21]. **femto** [Koz23]. **femto-** [Koz23]. **Fermi** [GOST23, MN21, YNMR24]. **fermion** [DDM20]. **fermionic** [XOTI22]. **fermions** [Dür23]. **ferroelectric** [KNJ+23, ZWC22]. **ferromagnetic** [LL23]. **ferromagnetic/non** [LL23]. **ferromagnetic/non-magnetic** [LL23]. **FerroX** [KNJ+23]. **few** [WLL22]. **few-group** [WLL22]. **FeynCalc** [SMO20b]. **FeynGame** [HKL20]. **FeynGKZ** [ABBD23]. **FeynGrav** [Lat23]. **FeynHiggs** [BHH+20]. **Feynman** [ABBD23, ABD+23, BMT23, CS22b, DPR+20, DRR+24, FR20, Gro23, Hid21, LM23, Nog21a, Nog21b, NVC20, SC20, SSV22, SZ24b, WW21, fWL24b, WBM+24]. **FeynMaster** [FR20]. **FeynMG** [MCMS24]. **FeynRules** [MCMS24]. **FFT** [Cos22]. **FFT-accelerated** [Cos22]. **FFTW** [DSSW22]. **fibre** [AAB+21]. **fibrogenesis** [ZKZ+24]. **fictious** [Yan23]. **fidelity** [BMSP21, CKC+21, KSC+23, MCB+20, RdPS24, XLL+22]. **Field** [DPR+20, DRR+24, SHW+21, AIZ23, AE23, BN20, BN23, Che23, CZY20, CCL+22, DH22, DKRSR22, EGLK20, EST23, FDPT23, FFTV23, Flo24, FFLR20, GK21, GJA21, GBS+20, GNP20, HS24, KKLZ23a, KKLZ23b, KLD+21, KLMU21, KNJ+23, KW23, LGBJ20, LMX+21, LCL+23, LHTP+24, MM23, MT23, NRG22, NRG24, TCY23, WMA+22, WYT23, XPF+24, Yan21a, YK21a, YYY22, YML+24, ZCWY20, Zha20, ZDG+21]. **field-aligned** [GBS+20]. **field-split** [YYY22]. **fields** [BKO20, CMS22, GH21, MYKC23, MPQ+22, RHW+21, RBWD+24, YI22, YYZ+22, ZKZ+24]. **FIESTA5** [SSV22]. **filaments** [HMM22]. **file** [LG21a]. **film** [BMP+24, RMR+22]. **filter** [BDGS21, CJ21, NDFL24, WHSG24]. **filtering** [LYC20, PP21, XPF+24]. **final** [ABWZ23, BOSM24, DDM20, SAS20]. **find** [MRT+22, NKP20]. **FindBounce** [GNP20]. **finder** [EGKH24]. **finding** [Bar22a, BBB+21, ZWG+24]. **Fine** [WWZ+23]. **Fine-grained** [WWZ+23]. **Fingerprinting** [SLL+21]. **Finite** [BC21, GSL24, KSDH23, Sha21, SLC+22, AIZ23, ALB22, ADF+22, BM20, BCHE21, BN20, BN23, ČPF+24, Che23, Cos22, CESD+23, DMS+22, Dau23, DS22, DVC+22, EPM23, FZD+24, GJA21, GCWZ20, GMZ+20, IGL+24, IJVJ21, JMOC21, KBB21, KLMU21, KM23, KFC+20, KBSH20, LLC+23, MVF20, MSM24, MDR+20, OCR+22, OKBM23, PGYF21, RSD20, SRT+20, SKDH24, SP20, SKC21, SBB+24, VGGP+21, WZZS21, WWZ+23, WDMZ24, WH23, XDF20, XZLX20, XLKX21, XLG+23, YT23, YI22, YWM23, Zho23, ZLS+22, dSOZ22, PLSB22, VB22a]. **finite-difference** [Cos22, SP20]. **finite-element** [DMS+22, IGL+24, MDR+20, RSD20, SRT+20]. **finite-order** [ZLS+22]. **FINite-size** [PLSB22]. **finite-sized** [Che23]. **finite-temperature** [GJA21]. **finite-time** [SKC21, XLKX21]. **finite-volume** [ADF+22, Dau23, FZD+24, VGGP+21]. **FiniteFieldSolve** [Man24]. **FIPI** [GB20]. **FIRE** [PGS+24, SZ24b]. **FIRE6** [SC20]. **FireFly** [KL20, KKL21]. **First** [Dan24, Och23a, Och23b, YI22, AM21a, BCTS22, DEdM24, KvdW20, KD23,

LLS+21, LLZ+22, MBTB21, MPN+21, PB23, SDL+21, TAE+21, YJLW21]. **first-** [KD23]. **First-principles** [Dan24, Och23a, Och23b, YI22, AM21a, BCTS22, KvdW20, LLS+21, LLZ+22, MPN+21, PB23, SDL+21, YJLW21]. **Fission** [TSJ+21, NRKA22]. **Fit** [RV21]. **FITEVT** [Hor23b]. **fits** [BS23]. **fitting** [ADdM20, BDGS21, CAC+22, KHKL24, RV20, RV21]. **five** [SMGK21]. **five-particle** [SMGK21]. **fix** [DACA+22]. **Fixed** [MBCC23, Ano20c, BCD+21, KK16, OBC+24, VB22b]. **fixed-point** [Ano20c, KK16]. **FLAME** [ART+20]. **flames** [CEC+24]. **flat** [SJ21]. **flavor** [KKSV24]. **Flavour** [TW21a]. **FLEKS** [CTZW23]. **flexible** [ABK+22, CTZW23, MSM24, MDP22, SXYD24, TAB+22, WKBW21, WOP+20, WS23, YTC+20, YMCF23]. **flexible-structure** [MSM24]. **FlexibleDecay** [ABH+23]. **FlexibleSUSY** [KKSV24]. **flight** [WBF+24]. **floating** [SSH+23]. **flow** [AGH21, BSC+21, CJZ21, CL22a, CNS22, FRN+23, GDJG23, GZW20, KWZ24, KBSL22, KT23, KRE22, KBSH20, LIG+24, LM23, MA24, MLZ+23, NJSY22, OSK+21, QCZ23, RLW+24, SSPF24, SFS22, Tan24, TPK+21, TGS+20, WA21, XBL+20, YCC22, Yan21b, YYY22, YCCW23, YKK23b, YZ20b, ZMC23, ZHZG23]. **flows** [AHP21, BBV+22, Bak23, BL21, BMSP21, BBA23, BKS24a, CAWK22, CS22a, Cos22, CESD+23, Dau23, DAC+23, DS22, DBV+24, FA20b, FJ22, FTZ+23, FMBD22, GWA+23, GB22, GP22, HRG+22, HJGL22, KFHR24, Kul20, LMHL20, LJH+23, LMQ+23, LHG24, MEC+24, MD21, OCC23, RCX24, RCW+20, SPLD20, SXYD24, SFC20, TO21, VPPQ21, WT22, WICA22, YWTK23, ZYML24]. **fluctuation** [CT23, GHKW22]. **fluctuations** [RPG+20]. **Fluid** [AMA+20, OLNG21, AHP21, AFB+24a, AGH21, BB24a, BBA23, CJZ21, CFW+23, DIK+23, DACA+22, DH20, EPM23, FA20a, FA20b, GB20, HEF21, JYL+23, JMOC21, KKPC23, KP23, KM23, LBS+23, LY24a, LSF23, LHG+20, LH22, LH24, LJS21, MBH21, MEH21, MPH+24, MSM24, NJSY22, DARJ23, PG23, SFC20, eSdSBST21, VSM+22, WICA22, WXZH24, WNS+21, WSK+22, WYT23, YSX+20, ZSqXY21]. **fluid-kinetic** [HEF21]. **fluid-structure** [LBS+23, YSX+20]. **fluid-structure-electrophysiology** [VSM+22]. **fluid-structure-interaction** [JMOC21]. **fluid-surfactant** [WYT23]. **fluids** [FBMD20, KSDH23, LBM+23, MES+24, BBA23]. **FLUNED** [DARJ23]. **fluorescence** [NI22]. **FluTAS** [CESD+23]. **Flux** [DBV+24, AWV22, CS22a, MBTB21, MSU+21, RCW+20, SKS24, TWW22, VÁFG+22, VLS22, WH23, BBV+22]. **flux-coordinate** [MSU+21]. **fly** [BMREC21]. **fmas** [MD22]. **foaming** [ASC+21]. **foci** [CMS22]. **Fock** [CLS+22a, MSN+22, RSM21, AYI+24, WGG20, Zeb22]. **focused** [CMS22, SKEZ24a]. **Fokker** [TCSA21, TKC+21, ZLL+24, DTC20, KSJ+22]. **folded** [Kar23a]. **folding** [GCK21, ZJS+20]. **following** [WA21]. **force** [BGW+22, BB21, EGKH24, HGS20, LCL+23, LM20, MYKC23, XSM22, YKSH20, ZKZ+24, EGKH24]. **Force-chain** [EGKH24]. **force-chains** [EGKH24]. **forced** [BDdM20]. **forcefields** [KMG+20]. **Forcer** [RUV20]. **forces**

[CMJC21, DACA+22, FDPT23, KT23, NVC20, WT22, YI22, ZTV+24]. **forcing** [JRG21, ZPZH20, Zha20]. **Forecasting** [CLS22b]. **form** [HKY+21, KSJ+22, LHC20, RUV20]. **formalism** [BJL+24, CT23, Jab22a, SP23, ZCS+24]. **Formalization** [CHA21]. **format** [GPD+22]. **formation** [AMP+21, JLW24, KLD+21, RDZ+20]. **formed** [MRG22]. **formula** [SA23, WLCF21]. **formulation** [ALB22, AGH21, TWR21]. **formulations** [PBC+24, VTB+21]. **Förster** [BMR+23]. **Fortnet** [vdHKB+23]. **FORTRAN** [BKRG22, Hor23b, KRG21, RPG+20, NSU20, XHY+24, YSMBA23]. **FORTRESS** [BKRG22, KRG21]. **forward** [BCT20, MD22, SL22]. **four** [DDM20, HYL+22, RUV20]. **four-fermion** [DDM20]. **four-loop** [RUV20]. **four-phonon** [HYL+22]. **Fourier** [ALB22, CCW20, FBMD20, FMBD22, KPST21, KL23b, LAD+21, SBB+24, YW21, ZYXC24]. **Fourier-enhanced** [SBB+24]. **FourPhonon** [HYL+22]. **Fourth** [PG23, KBB21, PB23]. **Fourth-order** [PG23, KBB21, PB23]. **FPGA** [KMN21, KHR+23, KK20]. **FPGA-based** [KHR+23]. **FPGAs** [WZK+24]. **Fractal** [GSM+22, Gro22, GG24, dMMLOS20, GOS+22, GG24]. **fraction** [CCL+22, GHL23]. **fractional** [CZS+21, CLEPF22, CLEP24, GMZ+20, HPY21, JLL+24, MD20b]. **fractional-step** [HPY21]. **fractionation** [LWhK+20]. **fractioning** [BBH+24]. **fractions** [HvM22, TGBM22]. **fracture** [ZL20]. **fragment** [PWC24, TSJ+21]. **fragmentation** [KL22, Roh22]. **frame** [GPD+22, PP21]. **framework** [ADC+21, ASU+21, ACD+22, ABF+23b, BMREC21, BC20, BN20, BN23, CE22, CGG21, CK23, Dau23, FZD+24, FSMM24, GAGO21, GOCSS+23, GKT+24, HAM+20a, HWL+23, HEF21, JYL+23, JSS+24, JKKN23, KWK+21, KTF22, KSF+22, KVSC21, KSC+23, KGT22, KNJ+23, LBS+23, LYZL24, MEC+24, MPS+24, MW21, MPH+24, MVF20, MYM+22, NL23a, NT24, RSC+22, RGS+21, STRF+20, UMA21, WXW+21, WICA22, WAK22, WAET22, XFH+22, YHY+21, ZSqXY21, ZHZG23, OBK+20]. **frameworks** [DAA+24, VÁFG+22]. **FRAPCON** [YLK+20]. **Free** [VvBTH20, AMP+21, BRAC23, BMR+23, BW23, ELSV24, GM20, HPAW21, LGDF20, LMQ+23, LMMP23, MS24, MM23, MHK24, NBC+24, OKBM23, RG21, SE24, UO20, WZZ+23, WA21, YZW21, ZYML24, Zho23, ZHZG23]. **free-boundary** [HPAW21]. **free-surface** [LMQ+23, WA21, ZYML24]. **frequency** [DNG+20, KM23, KD23, MMP20]. **frequency-dispersive** [DNG+20]. **FRET** [BMR+23]. **FRET-Calc** [BMR+23]. **freud** [RDH+20]. **friendly** [AMP+21, BMR+24b, HGS20, MMCC+22, WXL+21]. **fringe** [MRG22]. **frontal** [KMG+20]. **frontier** [LNP+24]. **FSEI** [VSM+22]. **FSEI-GPU** [VSM+22]. **fuel** [KJL+23, NUK+22, YLK+20, ZHM+24]. **fuels** [LLL24]. **Fugaku** [IKM+23]. **Full** [GLN23, PMS+20a, DRZ+21, EGLK20, FBA+20, FYM+22, Ken24, LKP24, MG22, MSU+21, SDXY23, SBB+24, Tan23, WMA+22, YHH+20, YCC22, YML+24]. **full-** [Ken24, MSU+21, SBB+24]. **Full-band** [GLN23]. **full-field** [EGLK20, WMA+22, YML+24]. **full-orbit** [FBA+20, YHH+20].

**full-potential** [Tan23]. **full-scale** [YCC22]. **Fully** [BCD+21, MAMK21, MSM24, BBA23, DTC20, KSF+22, LHC20, OBC+24, Yan21b, YLH+20]. **fully-coupled** [KSF+22]. **fully-decoupled** [Yan21b]. **fully-differentiable** [BBA23]. **FUMILIM** [SAS20, SAN24]. **function** [AUEO24, AJDS+21, ABF+23a, Ano20c, BND22, BDdM20, Bul21, CZ21, CDT22, CLEP24, GCWZ20, GBH20, HY23, HFP21, Jab20, KKB+24, LWS+23, LM22, PPKK21, SWZ23, ZCS+24]. **Functional** [HCP20, MVK+24, WBK+24, BW23, CZWE23, DMS+22, FASD20, FWL+24a, GM20, GBR23, GBD+22, IPSW24, IJVJ21, LYC20, MHK24, MDR+20, PSW23, PM21, SXW+20, SLZY21, SHW+21, TMC22, VCF22, YT23]. **Functional-style** [WBK+24]. **functionalities** [WMA+22]. **functionality** [BBC+24, BC22]. **functionalization** [AUO+22]. **functionals** [MSG+21]. **functions** [ABFP24, Bag22, BA24, BGH22, Ber24, Bzo21, CCMR21, CCK23, CGV+22, GDB10, GST21, HLzY+20, HG22, IKM+24, KK16, KHKL24, KL20, KKL21, Kor23, LP24, MSHP02, MSHP20, PSK+24, Pot24, RBV+22, SLE+22, SLZG20, UZB22, Xav22]. **fundamentally** [SWZ23]. **fusion** [AYB24, DFP+20, GBS+20, HSB+24, LLH21a, NUK+22, NSY+23, RdSH+24, SMA24, TKC+21, TBAR21, TWW22, Xie23, YGSW21, ZDSS23, ZLL+24]. **fusion-evaporation** [AYB24]. **future** [Sjö20]. **fuzzy** [GG24].

**G0W0** [RDV+20]. **gains** [TPCT22]. **galactic** [Mau20]. **Galerkin** [CJ21, DGM20, FRN+23, FMHH24, GMZ+20, HWL+23, HWZ24, IPSW24, JKSY22, KSJ+22, KMD+21, LS22, MGX24, QWZ+21, SVSC20, SMA24, SS21b, SDBS24, YXX+21]. **gamma** [Fis24, GST21]. **GammaCHI** [GST21]. **Gamow** [MAJ20]. **Garfield** [DBM+24]. **Gas** [KWZ24, FJ22, FTZ+23, LF24, LSW+20, LHG24, MEC+24, MGC+23, RCB21, WZZ+23, YZ20b, ZLLM23, ZWP+22]. **gaseous** [ABGD+20, SWTC23]. **gases** [ZWZ+22]. **gauge** [FFTV23, GHK20]. **gauge-Higgs** [GHK20]. **Gaunt** [ÖAÖ24]. **Gauss'** [OCR+22]. **Gaussian** [RBV+22, BTG22, HG22, PPK22, SKEZ24a]. **GDML** [ACKB23]. **Geant** [EMM+23]. **GEANT4** [LGK+22, MK22, BCD+21, KTF22, Kan23, Kan24, OBC+24]. **Gebremariam** [CCK23]. **Geliosphere** [SBG23]. **GEM** [AFB+24b]. **GEN** [ZWC+20]. **Genarris** [TRB+20a]. **GenASiS** [BC22, CB23]. **gene** [ENK24, CJD+20, MSU+21]. **GENE-X** [MSU+21]. **GenEOS** [ENK24]. **General** [VFS23, XZLX20, ASPDL+21, ABF+23b, BFD22, BAB+20, CFPS23, DCRF23, DC22, GK21, HT20, Koł22, LQ21, PWD22, RBV+22, RV20, RV21, RVRT22, RMFB23, Wor20, XDF20, ZWC22, CLEPF22, DBdFdSR21]. **general-purpose** [ASPDL+21, ABF+23b, DCRF23, HT20, ZWC22]. **Generalisation** [BCGT24]. **generalised** [LP24, NSU20, TGS+20]. **Generalization** [LQGL21, BDdM20]. **Generalized** [GCWZ20, HvM22, KAG24, MCP23, RZH22, TCY23, GOST23, YWX+23, SOH+23]. **generate** [KWK+21, MMM23]. **Generating** [May21, TIG+24, CB20, WBM+24].

**Generation** [AYB24, fWL24b, ATRD21, CKGW22, FPSZ21, GKT+24, Ilt21, KKY24, LJS21, NL23b, Nog21a, PMSHG23, SKEZ24a, WBF+24, WLL22, WGS+22, YLLW24, ZWC+20, ZLV23]. **generator** [AAA+21, AZH+24, Ada22, AG23, BCT20, BKG+23, DPR+20, DRR+24, For22, GUW+22, JWW+23, Koł23, KMS20a, LHZ20, Sjö20, TRB+20a]. **generators** [BIK+21, LAC21, LWS+23]. **generic** [For22, HyLF23, ZDLS21]. **genetic** [CZX+21, LFZ20, YNMR24, ZZ21b]. **GenEvaPa** [HyLF23]. **GENIE** [AAG+20]. **GENIE-based** [AAG+20]. **Gennes** [SKDH24]. **geofluids** [ENK24]. **Geometric** [TS23, KAG24, LH22, LH24, PBC+24, WHSK24, XQ21]. **geometrical** [PMS+20a]. **geometries** [COW24, CW22, HMR22, LHG+20, OBGA24, SN23, SFKC22, SBP20, WAN+22, WGS+22]. **geometry** [ASPDL+21, CZS+21, JKSY22, KRC+20, KBH+24, LEE+21a, LOT+20, MG22, MSH22, SDBS24, TRN+24, WZZS21]. **geophysical** [SGY24]. **GeoTaichi** [SGY24]. **get** [SLZY21]. **GETaLM** [Ada22]. **GetDP** [DNG+20]. **GFCCLib** [PPKK21]. **GGA** [MSG+21]. **ghost** [JGJ20, SXYD24]. **Ginzburg** [Hor23a]. **GITR** [YGSW21]. **given** [GO23]. **gKdV** [HWZ24]. **GKZ** [ABBD23]. **glass** [JRG21]. **glasses** [BPMMP24, VvBTH20]. **Glauber** [SW23]. **GLE** [Gro23]. **Global** [FA21, LW24, PLT+23, ADdM20, KBH+24, LOT+20, LSS24, OGL+21, RV20, RV21, YGSW21]. **Globally** [KP23]. **GLoBES** [TW21a, TW21a]. **Godunov** [MOV21]. **goodness** [ADdM20]. **Gordon** [GGCW24, GMZ+20]. **Gordon-type** [GMZ+20]. **governed** [JM24]. **governing** [WYZZ23]. **GPEs** [JLL+24]. **gpGPU** [PNL+24]. **GPGPUs** [CGSO20]. **GPI-Space** [BBH+24]. **GPIC** [XHY+24]. **GPR** [RBV+22]. **GPSD** [KAG24]. **GPSD-3D** [KAG24]. **GPU** [AGH21, AUEO24, CCMR21, CCC20, CFLR24, CESD+23, DMS+22, DAC+23, DS22, DFG+23, DRZ+21, DFU20, DHE+24, EGLK20, EPM23, ECS23, GSL24, GB22, HPY21, HL21, HTL+22, HLzY+20, HG22, JS24, JMOC21, JḎD+21, KKLZ23a, KWZ24, KL23b, KMR22, KT23, KNJ+23, LG23, LJQ+22, LHG24, LMHUR23, MWJL23, MVK+24, MBC+24, MHK24, NT24, Nie20, Nie22a, NRG24, OCK+24, PSK+24, RLW+24, RCX24, RZH22, RBWD+24, RCW+20, RAJ+24, SYFT23, SXYD24, SCL22, SBG23, TLC+21, TMH+23, VSM+22, WWM+22, WWJ+22, WVK21, XBL+20, XHY+24, XLG+23, YCCW23, Yan23, YKK+23a, YLLW24, YLK21, zYMK+21, ZMC23, ZPZH20, ZCP+22, ZHI23, ZTV+24, ZPL+24]. **GPU-accelerated** [CFLR24, CESD+23, ECS23, JMOC21, KL23b, KMR22, KT23, KNJ+23, NT24, RLW+24, RZH22, RCW+20, SCL22, WWM+22, WWJ+22, WVK21, XBL+20, XLG+23, YLK21, ZHI23]. **GPU-acceleration** [JS24, zYMK+21]. **GPU-enabled** [GSL24]. **GPU-offload** [SYFT23]. **GPU-parallelized** [KKLZ23a]. **GPUs** [CZ21, Ein20, HL21, MKHT20, NS20, ODR+22, RBFB20, WA21, WS20, WZPW20, ZW20, ZDSS23]. **Grad** [AIZ23, ELSV24, HSB+24, LZ21, SVSC20]. **Grad-Shafranov** [HSB+24, LZ21]. **Gradient** [RdPS24, AUEO24, CL22a, GZW20, KL23b, WHSG24]. **gradient-based**

[KL23b]. **Gradient-enhanced** [RdPS24]. **grading** [TIG+24]. **grain** [XSM22]. **grained** [AHM+23, MBCC23, OCK+24, WWZ+23, ZKZ+24]. **graining** [NA20]. **granular** [EGKH24, RMR+22, TLC+21, YLLW24, ZZ21a]. **graph** [GF23, MMV+24, Nog21a, RSC+22, ZYML24]. **graph-based** [MMV+24]. **graph-theoretical** [RSC+22]. **graphene** [CSBF23, SRK+24]. **GraphIAST** [DvHSdS22]. **graphic** [DC22, AGH21]. **graphical** [DvHSdS22, YR21]. **GRASP2018** [SLE+22]. **Gravitational** [CFPS23]. **gravity** [BLG24, MCMS24]. **gray** [FXQS21, JLW24]. **Green** [Ano20c, AUEO24, CDT22, GCWZ20, KK16, PPKK21, ZCS+24]. **Greenwood** [Bul21]. **grid** [BC21, BW23, DFG+23, Flo24, GUW+22, MSM24, MSHP02, MSHP20, NDFL24, TCSA21]. **grid-based** [MSM24]. **Gridap** [VB22a]. **grids** [CAC+22, DGM20, LH22, LH24, LJS21, PLF20, SRML20, SS21b, TS23, VB22b, YXX+21]. **GROMACS** [RG21]. **Gross** [FJ22, BKRG22, CR20, CCW20, CWJ21, GTA21, KRG21, KMR22, KPL+21, YSMBA23]. **ground** [CR20, GO23, KW23]. **ground-state** [KW23]. **Group** [LS21b, NL23b, WV22, CFBRE24, CPL21, DH22, Fon21, IPSW24, LCZ+21, Sij23, WLL22, YS22]. **GroupMath** [Fon21]. **groups** [LZYY23]. **growth** [Dan24, WNS+21]. **gSeaGen** [AAG+20]. **GSGPEs** [CR20]. **GSGPEs-v1.1** [CR20]. **GSvit** [KGN+21]. **GUI** [KKB+24, Soz21]. **GUI4dft** [Soz21]. **guide** [JDS20, KSIL22, WAYL23]. **guided** [ZHS+20]. **guiding** [BKP22, BJS+23, MHP23, XQ21]. **Gutzwiller** [PWD22]. **gVOF** [LH22]. **GW** [HM24, Kut20, SLZG20, LACL24]. **Gyrofluid** [Ken24]. **Gyrokinetic** [OGL+21, YYC+23, CJD+20, JKSY22, KSJ+22, KBH+24, LOT+20, MSU+21, SBB+24, YC20, ZDSS23, ZYX21, ZYX22].

**H** [AKK+24, AYI+24, KKM+20]. **H-COUP** [AKK+24, KKM+20]. **H-wave** [AYI+24]. **hacks** [Fis24]. **HADOKEN** [CW22]. **Hadron** [BDK+23, For22, SZY+22]. **hadronic** [KOT23]. **half** [LH24, TMH+23]. **half-spaces** [LH24]. **Hall** [TWR21, VGGP+21]. **Hall-MHD** [TWR21]. **Halo** [BHK+21, FBA+20]. **Hamiltonian** [GQ22, KF23, LHZ20, NKP20]. **Hamiltonians** [LQ21]. **handle** [KL23a]. **Handling** [WYHW24]. **handyG** [NSU20]. **hard** [SWZ23]. **Hardware** [WZK+24, CCM20, EOR21, MRH+23, TAY+24, WWM+22]. **hardware-accelerated** [MRH+23]. **Harmonic** [WHSK24, LSS24, MSN+22, PMSHG23, RZY+24, SKEZ24a, SMGK21, dMMLOS20]. **harmonic-oscillator** [SMGK21]. **harmonically** [MPSK21]. **harmonics** [DEV20, Efr20, Efr21a]. **Hartree** [MSN+22, RSM21, AYI+24, CLS+22a, WGG20]. **HDMR** [RBV+22]. **HEAPS** [MMCC+22]. **heart** [VSM+22]. **heat** [AS24a, Bel24, CJZ21, KKPC23, LFL+24, MBTB21, MMYU22, MM22, SKS24, XLL+22]. **heat-transport** [MBTB21]. **heaters** [SS22]. **heavy** [AZH+24, BKBL22, MBH21, MEH21, NUK+22, OEI+22, TIG+24, YZL+23, YZW22]. **heavy-ion** [MBH21, MEH21, YZL+23]. **heavy-quarkonium** [OEI+22]. **HEJ** [ABB+22]. **Hele** [Yan21b]. **heliosphere** [MNS+24, SBG23]. **helium**

[FN23, LHTP+24, VB22b]. **helium-like** [FN23, LHTP+24]. **Hellmann** [NVC20]. **Helmholtz** [LGDF20, OCR+22, OKBM23, VPPQ21]. **help** [SWZ23]. **HemeLB** [ZMC23]. **HEP** [KMN21, PP21, WZK+24]. **HEP-Frame** [PP21]. **HepLib** [FXZT21, FTG23]. **HEPLike** [BC20]. **HepMC3** [BIK+21]. **Hermes** [DKM+24]. **Hermes-3** [DKM+24]. **Hermite** [KMD+21, PMK+23]. **Hermite-discontinuous** [KMD+21]. **Hermitian** [FKK+21, zYMK+21, YT22]. **Heterogeneous** [GB22, MDDI21, RCX24, Ryd20, BB24b, Hal21, LLZ+23, LDGN24, LJS21, RSC+22, SCF20, WWZ+23]. **heterostructures** [Che23]. **hfbtho** [MSN+22]. **Hfszeeman** [LGBJ20]. **Hibridon** [ADW+23]. **hidden** [GSV23, SCT21, WYZZ23]. **Hierarchical** [BKS22, LDGN24]. **Higgs** [KM20, KMS20b, AKK+24, BHH+20, BMM21, DDM20, GHK20, KKM+20, KKSV24, KMU+23, KM20, KMS20b]. **Higgs-boson** [BHH+20, DDM20]. **HiggsBounds** [BBH+23]. **HiggsSignals** [BBH+23]. **HiggsTools** [BBH+23]. **High** [AALK20, ABB+22, BPMMP24, BDR+20, ČPF+24, HSA22, KPL+21, LMWW24a, LMQ+23, NT24, PLL24, RBV+22, RBFB20, XLL+22, AGJ+23, AFJ+23, BBV+22, ADF+22, BCCM+24, BL21, BTK24, BMSP21, BBA23, BCTS22, BLM+22, BSC+21, CZTF23, CKC+21, CKGW22, CWJ21, Dan24, DBV+24, DFU20, DS20, EGLK20, EVMP20, EPM23, EES24, FJ22, FXZT21, FTG23, FRN+23, GBS+20, GZW20, GB22, GHL+22, GKT+24, GAS+23, GGCW24, GFD+24, HMYH22, HA23, HWL+23, HSO+22, IUJ21, Jab20, KAB+21, KMN21, KSC+23, KGT22, LF24, LLZ+22, Man24, MMCC+22, MT23, MCB+20, NJSY22, Nie22a, NAZ+21, OCC23, OSK+21, PMSHG23, PCS+23, PFG22, QWZ+21, RDH+20, RZY+24, RdPS24, RCW+20, SRC21, SMC+22, SGY24, SSV22, SDBS24, TCY23, Tan24, TV24, VLS22, WXY20, WXL+21, WGGC22, XPF+24, XHY+24, YJLW21, YK21b, YKK23b, ZGZW23, ZDLS21, Zho23]. **high-** [AFJ+23]. **High-accuracy** [LMQ+23, GB22]. **High-degree** [LMWW24a]. **high-dimensional** [DS20, SMC+22]. **high-efficiency** [Tan24, XHY+24]. **high-efficient** [LLZ+22]. **High-energy** [ABB+22, BCCM+24, Dan24, HMYH22, HSO+22, Man24]. **high-entropy** [MMCC+22]. **High-fidelity** [XLL+22, BMSP21, CKC+21, KSC+23, MCB+20, RdPS24]. **high-intensity** [HA23, Nie22a]. **high-level** [ZGZW23]. **High-order** [ČPF+24, BBV+22, ADF+22, BBA23, BSC+21, CWJ21, DBV+24, DFU20, EVMP20, EPM23, FJ22, FRN+23, GBS+20, GZW20, GHL+22, GKT+24, GGCW24, HWL+23, LF24, PMSHG23, PCS+23, QWZ+21, RZY+24, RCW+20, SDBS24, TCY23, VLS22, WXY20, YK21b, YKK23b, Zho23]. **High-performance** [AALK20, BPMMP24, BDR+20, HSA22, KPL+21, BLM+22, CZTF23, MT23, OSK+21, SGY24, SSV22, YKK23b]. **high-precision** [DS20, KAB+21, KGT22]. **high-pressure** [BTK24]. **high-resolution** [EGLK20]. **high-speed** [BL21, CKGW22, DBV+24, OCC23]. **high-throughput** [NAZ+21, PFG22, WXL+21, WGGC22]. **Higher**

[LLY+22, BA24, HTL+22, LLZ+22, SLL22, SP20, YS22]. **higher-energy** [SLL22]. **Higher-order** [LLY+22, LLZ+22, SP20]. **highly** [DRM20, LAD+21, LDGN24, OLNG21, PCS+20, TWR21, WYT23, YSX+20, ZPL+24]. **highly-coupled** [TWR21]. **highly-efficient** [ZPL+24]. **highly-scalable** [OLNG21]. **HighPT** [AFJ+23]. **Hilbert** [SKM+21]. **Hilliard** [Yan21b, KSF+22, LM21a, LHC20]. **HiPACE** [DBH+22]. **histogram** [Sit23]. **HL** [TPS+24]. **HL-LHC** [TPS+24]. **HLS** [WZK+24]. **HODG** [HWL+23]. **Hodge** [VPPQ21]. **Holm** [ZYXC24]. **HoloGen** [CKGW22]. **hologram** [CKGW22, MZD+20]. **homogeneous** [LHTP+24, YZHL22]. **homopolymer** [LM21a]. **HONPAS** [SXW+20]. **HORSE3D** [FRN+23]. **Householder** [dBBVA20]. **hp** [MCB+20, TMC22]. **HPC** [ARLDG24, GTA21, OLNG21]. **hPIC** [SMC+22]. **hPIC2** [MRH+23]. **HSMA** [LYX22]. **HTR** [DFU20, DP21, Di 22]. **HTR-1.2** [DP21]. **HTR-1.3** [Di 22]. **Hubbard** [TMC22]. **Hubble** [TSAK21]. **human** [ZMC23]. **human-scale** [ZMC23]. **hundred** [CLZ+21]. **hundred-billion-metal-atom** [CLZ+21]. **hunting** [JDS20]. **Hybrid** [AAB+21, AAMY23, CJ21, LJQ+22, OBL+21, YT23, ASC+24, DMS+22, GB22, GHK20, GP22, HPAW21, LL23, MRH+23, RCS21, SKYQ21, SXW+20, TWR21, WXX24, YW21, YD20, ZYML24, ZLS+22]. **Hybridizable** [SVSC20]. **hydraulic** [ZL20]. **hydrocarbons** [MRG22]. **hydrodynamic** [CSBF23, DACA+22, KD23, SLC+22, WDMZ24]. **hydrodynamically** [CZY20]. **hydrodynamically-coupled** [CZY20]. **Hydrodynamics** [AMA+20, AYWKL24, FRN21, KP23, LMQ+23, LYZL24, MXH+24, ODR+22, RZH22, Sij23, ZCWY20, ZRZ+21, ZHZG23]. **hydrogen** [SCT21]. **hydrogenic** [FN23]. **hydrogeology** [Org22]. **hydrophilicity** [SD24]. **Hyper** [GSM+22, BA24, Gro22, GOS+22, GG24]. **Hyper-Fractal** [GSM+22, Gro22, GOS+22, GG24]. **hyper-radial** [BA24]. **Hyperbolic** [TWW22, JKSY22, MD20b, PMS+20a]. **hyperfine** [BGHC23, LGBJ20]. **hyperfine-induced** [LGBJ20]. **hypergeometric** [ABF+23a, ABBD23, ABFP24, Ber24]. **hyperparameter** [TV24]. **hyperplanes** [LH24]. **HyperRAF** [BA24]. **hypersonic** [DFU20, GDJG23, Di 22, DP21]. **hyperspectral** [GG24]. **hyperspherical** [DEV20, Efr20, Efr21a]. **hyperthermal** [JS22]. **HYPIC** [WXX24].

**IAST** [DvHSdS22]. **ICSFoam** [OCC23]. **Ideal** [DvHSdS22]. **identical** [XSM22]. **Identification** [KSDH23, WLF+24, WPMK21, CZB+23, Ham20b, LNP+24, MRG22, TAGC22b]. **identifying** [PRR23, WYZZ23]. **II** [ARLDG24, ATRD21, BBB+21, BN23, CFPS23, NCF+23]. **III** [HLCD20, Nog21b]. **III-nitride** [HLCD20]. **IIM** [WT22]. **ill** [SWZ23]. **ill-posedness** [SWZ23]. **Illustration** [NDFL24]. **Image** [OBK+20, CEC+24, KLD+21, MCP23, OSK+21]. **image-based** [OSK+21]. **images** [GOS+22, GG24, PSK+24]. **imaginary** [KCS22]. **imaging** [ANU21, Yan24b]. **IMEX** [YWTK23]. **immersed** [BCHE21, TGBM22, YSX+20, ZPZH20, Zha20]. **immersed-boundary** [YSX+20]. **immersed-finite-element** [BCHE21]. **immersive** [TL20].

**Impact** [GAA+20, FMCB+20]. **IMPC** [ZYG21]. **IMPC-Burnup2.0** [ZYG21]. **IMPGYRO** [YHH+20]. **imple** [VMRFC23]. **implement** [MD20b]. **Implementation** [BN20, BN23, CJD+20, EML22, KDK23, KGT22, KM22, KAS24, LEE+21a, NG21, NBB+21, OV23, YCCW23, YD20, ZRH21, CZTF23, DS22, Dür23, EGLK20, FWL+24a, GBR23, JDD+21, KRE22, LYC20, LHG24, LNB23, MWJL23, MR22, Mar22, MVK+24, MZL+21, MHP23, MDP22, PWD22, PM21, PGS+24, RG21, RMFB23, RAJ+24, RCS21, SYFT23, SRE+24, SNG20, SDBS24, VÁFG+22, WZK+24, XOTI22, Yan23, YML+24, ZZZ+20]. **Implementations** [YLIO22, HG22, MMFdL21, RBFB20]. **implemented** [DACA+22, LYX22, SN23]. **Implementing** [DRB22]. **Implicit** [TWR21, BCHE21, BTK24, CL22b, CCW20, DTC20, DBV+24, DBR24, EVMP20, KBB21, KBSL22, MAMK21, OCC23, PMK+23, RDR+20, RC23, SN23, SXYD24, TKS22, VLS22, YZ20b]. **implosion** [NUK+22, TKC+21]. **imposition** [MVF20]. **improper** [MBCC23]. **Improved** [BBC+24, DACA+22, HK24, Jab20, CML+24, FFLR20, LY24a, MZ22, SXYD24]. **Improvements** [AAD+24, CK23, EVFRHR23, KKL21, RBWD+24, SMO20b, WMA+22]. **Improving** [BGR23, KRJ23, PP21]. **impulse** [HMM22, OYC24]. **impurities** [YHH+20]. **impurity** [ACS+22, MSY+21, NSY+23, YHH+20]. **in/dependent** [Kar23a]. **including** [BBB20, KOT23, KM20, KMS20b, MOV21]. **inclusive** [BKG+23, ZDLS21]. **incompressible** [CS22a, CJZ21, Cos22, FBMD20, FRN21, HPY21, KBSL22, KRE22, LJH+23, ODR+22, TGS+20, WT22, YWTK23]. **incremental** [KFHR24]. **independent** [ADW+23, BV21, FMCB+20, MSU+21, WH23]. **index** [BMR+24b, MWJL23]. **induced** [LGBJ20, OYC24, Roh22, SJY18, SJY20]. **Industrialization** [BCCM+24]. **inelastic** [BKG+23, GSV23, MBJB24, SMB20]. **inequality** [YYH21]. **inertia** [OS24]. **inertial** [LLH21a, NUK+22, TKC+21, ZLL+24]. **inexact** [SLC+22]. **Inference** [CV21, LM22, BB24a, HL21, KKP22]. **infinite** [RRC+24]. **influence** [AS24a]. **Informed** [LY22, RRC+24, SE24, WBF+24]. **infrastructure** [CZA+23, zYCD+20]. **INGRID** [GUW+22]. **initial** [AS24a, FYW23, SRML20]. **initialization** [NR21]. **initialize** [CCL+22]. **Initio** [vRCM21, BDP+21, JPJ+23, MMC+21, FN23, KSG22, MLD+22, SLBR22, SLIC24, ZGZW23, IMB+22, KMM21, LWC+21, NYN+21, PP23, RTRB21, YLH+20, ZPL+21, TDR+20, YHY+21]. **injection** [WAK22]. **Inline** [TW21b]. **inorganic** [ZHS+20]. **input** [GHL23]. **inputs** [GBH20]. **insight** [RBV+22]. **insights** [BMI23]. **inspired** [NDFL24, WHSG24]. **instabilities** [MD20b, YYC+23]. **instability** [LY24a]. **installed** [XOTI22]. **instruction** [PNL+24]. **insulator** [MCP23]. **insulators** [YI22]. **Integral** [KLMU21, SC20, CKT21, FN21, GOST23, MN21, SSV22, SZ24b, VPS23, VTB+21, XFH+22, YSI+24, YZHL22]. **Integrals** [HY23, ABBD23, ABD+23, Arn20, BA24, Bzo21, DS20, DEdM24, Flo24, Hid21, HG22, Lee21b, LM23, PBC+24, UZB22, WW21, WBM+24].

**integrated** [Yan24b]. **Integrating** [KMM21]. **integration** [Bar22b, BMT23, CL20, CCK23, CNS22, DBR24, EML22, GDB10, HPY21, HW22, KBSL22, KMR22, Koł23, LC24, MPQ+22, PMK+23, STA20, SLZ+24, TSL21, TPCT22, WZPW20, WBM+24, dVAR+24]. **integration-by-parts** [WBM+24]. **Integrations** [ZW20, CZ21]. **Integrative** [FYM+22]. **integrator** [CL22b, EOR21, QWZ+21, TBAR21]. **integrator/WENO** [EOR21]. **integrators** [TM24, ZK20]. **Integro** [ASW20]. **Integro-Differential** [ASW20]. **Intel** [OLNG21]. **intelligence** [PMSHG23]. **intense** [BAB+20, Tan23]. **intensity** [Dan23, HA23, Nie22a]. **intensive** [BKS24a]. **interacting** [LJQ+22, MBG+20]. **interaction** [AAMY23, FBA+20, GCK21, HHVB21, HLCD20, JMOC21, LBS+23, MMP+24, MSM24, Nie22a, RZY+24, SNG20, UAS22, VSM+22]. **interaction-expansion** [SNG20]. **interactions** [ASA+22, AB21, BFI+21, CGR21, CSW24, DG20, FN23, Gar21, HA23, KOT23, Kar23a, LMX+21, MLD+22, MRH+23, NBS+20, NBB+21, PWD22, PFG22, Tan23, YKSH20, YGSW21, ZPL+21]. **interactive** [GUW+22, KKB+24, TL20]. **Interatomic** [SRK+24, DRB22, DBdFdSR21, HTS+21, KMG+20, MPN+21, SKS24, WAET22]. **Interface** [AACE+21, BMREC21, KMY+23, AKW21, BLN+21, DvHSdS22, HWAA22, LY24a, PFG22, TDR+20, VMRFC23, WXL+21, YWTK23, YHY+21, ZDG+21]. **interfaces** [DTGE21, GB20, MCP23, WT22, XSM22, YR21]. **interfacial** [SPTPR21, UO20]. **intermediate** [LGBJ20, MLD+22]. **intermediate-mass** [MLD+22]. **Intermediates** [RG21]. **intermetallic** [AMP+21]. **internal** [BBA+20, CZB+23]. **interoperability** [BMREC21]. **InterPhon** [YHY+21]. **Interpolation** [KKL21, YLL+22, DS20, FMHH24, Ilt21, KOT23, KKLZ23a, KKLZ23b, KFC+20, WVK21]. **interpolation-based** [KKLZ23a, KKLZ23b]. **interpretable** [TC24]. **interpretation** [BSS+23, RMFB23, TRB20b]. **interpreting** [Hua24]. **intersection** [LH24]. **interstitial** [WLF+24]. **intrinsic** [JGJ20]. **Introducing** [PSK+24]. **introduction** [BM20, WOP+20]. **intuitive** [YR21]. **invariance** [CLS22b]. **invariant** [ZYXC24]. **invariant-preserving** [ZYXC24]. **invariants** [GBR23, LS23]. **Inverse** [Sva24, AG23, HL21, TCD20, XLG+23]. **inversion** [DRZ+21, GST21, MN21]. **inverted** [CJZ21]. **Investigating** [ATC+23]. **Investigation** [SCF20, MVK+24, MZD+20, WBvdH20]. **InvFD** [MN21]. **involving** [BA24]. **ion** [Ada22, BFT20, FYM+22, GSV23, JS22, KLD+21, LS21a, MBH21, MEH21, NUK+22, PK24, PFG22, SNP+20, SMC+22, ST23b, TWR21, TBAR21, WXX24, Xie23, YZL+23, KOF21]. **ion-ion** [GSV23]. **ion-material** [PFG22]. **ionization** [SZNW23, TNL+22]. **ions** [BKBL22, SJP21a]. **IR** [KSG22]. **IRAND** [KRJ23]. **irradiated** [CHY+24]. **irradiations** [MVK+24]. **irreducible** [GWPW21, IMB+22, LCZ+21, MONW21]. **irregular** [TS23]. **IrRep** [IMB+22]. **Irvsp** [GWPW21]. **Ising** [BPMMP24, HL21, OBL+21, RBFB20, WZC+24, YM21]. **isoconversional** [RHLTG+22]. **isomeric** [WGS+22]. **isotherm** [BRAC23]. **isothermal** [FA20b, LHG24, RHLTG+22]. **isotopes** [KAB+21]. **ISPH**

[FRN21, MRN20, ZYML24]. **Issue** [GM24, SZY+22]. **Issues** [LS21a]. **ITER** [COJ+22]. **iterated** [WW21]. **iteration** [HPAW21]. **iterations** [Ano20c, KK16]. **iterative** [DCZ23, FWL+24a, GQ22, KKY24, MRN20, SGS23, WLCF21]. **ITVOLT** [SGS23]. **IV** [MSN+22].

**Jacobian** [LMMP23, Zho23]. **Jacobian-free** [LMMP23, Zho23]. **January** [Ano20r, Ano21q, Ano22q, Ano23q, Ano24m]. **Jas4pp** [CGG21]. **JaSTA** [Hal21]. **JaSTA-3** [Hal21]. **JAX** [BBA23, XLG+23]. **JAX-FEM** [XLG+23]. **JAX-Fluids** [BBA23]. **JefiGPU** [ZCP+22]. **Jefimenko** [ZCP+22]. **JeLLyFysh** [HQF+20]. **jet** [BP21, LNP+24, LIG+24, Roh22]. **jet-fragmentation** [Roh22]. **jet-tagging** [LNP+24]. **JFNK** [HA21]. **Jiezi** [ZCS+24]. **JIT** [VB22a]. **joint** [HFP21]. **Jones** [SHRK22]. **Josephson** [Gul20]. **JRAF** [Bag22]. **Julia** [Bag22, BA24, FASD20, VB22a, fWL24b]. **July** [Ano20s, Ano21r, Ano22r, Ano23r, Ano24n]. **junction** [BMI23]. **June** [Ano20t, Ano21s, Ano22s, Ano23s, Ano24o]. **just** [May21]. **Jx** [YKSH20].

**Kalman** [AGJ+23, BDGS21]. **KANTBP** [CGV+22]. **Kawasaki** [CZY20]. **Kernel** [STA20, BND22, LGDF20, TWW22]. **kernels** [EPM23]. **KGMf** [KFPV21]. **KinBot** [VZ20]. **kinematical** [Dan23]. **Kinetic** [KWZ24, BB21, CLEP24, DIKSN24, FBC+21, HEF21, KDIN+23, LSW+20, LHG24, LWV20, MAMK21, RSC+22, SKC21, ZWP+22, ZYX21, ZYX22]. **Kinetics** [CV21, CLEPF23, FCTFR20, MPH+24, RHLTG+22, RCX24, DdCAG23]. **kink** [ZJM+21]. **Kira** [KLMU21]. **kit** [WGGC22, MAMK21, CZWE23]. **KKMC** [AJW+21]. **KKMCee** [JWW+23]. **Klein** [GGCW24]. **KLIFF** [WAET22]. **KM3NeT** [AAA+20, AAG+20, AAG+24]. **kMap.py** [BYL+21]. **knockout** [OYC24, SW23]. **Kohn** [JZW+22, LG23, YT23]. **Kokkos** [EVMP20]. **Krook** [FJ22]. **Krylov** [HKY+21, WPMK21, Zho23]. **KSSOLV** [JZW+22]. **Kubo** [Bul21, SP23, WLCF21]. **Kutta** [KBSL22, KFC+20].

**lab** [DHK+21, DG20]. **LaBCof** [NL23a]. **Lac** [BB24b]. **laden** [GWA+23, GB20]. **Lagrange** [GWA+23, SFBG20, WVK21]. **Lagrange-mesh** [SFBG20]. **Lagrangian** [CS22b, Ein20, MSM24, SRE+24, Sij23, THH21, TC24, WWM+22]. **lagrangians** [May21, May21]. **Laguerre** [HY23, PCL24]. **lamellar** [FLK+20]. **Laminar** [VLS22]. **Laminar-Turbulent** [VLS22]. **LAMMPS** [CT23, CL22b, DCRF23, DACA+22, Ham20b, JCM20, KAS24, LYX22, TAB+22, YLIO22]. **Lanczos** [GBD+22, ZJ23]. **Landau** [AM21b, CFW+23, Hor23a, MDP22, SJ21, ZSqXY21]. **landscape** [LSZ23]. **landscapes** [NA20]. **Langevin** [JGJ20, LLT+23, TM24]. **Langtry** [VLS22]. **Laplace** [ATC+23, CLEPF23, WZC21]. **Laplacian** [CZS+21]. **lapse** [DG20]. **Large** [CJ21, WA21, YCC22, YJLW21, ARLDG24, BC22, BDR+20, CB23, CMJC21,

EVFRHR23, FWL+24a, GOST23, HSA22, KSG22, KKPC23, KFHR24, KLM+22, LBRW22, LKP21, LZK+23, LG23, LGK+22, Man24, MDR+20, OCK+24, PLT+23, PBC+24, RL21, SKM+21, VTB+21, ZJ23, ZW20]. **large-dimension** [ZJ23]. **Large-scale** [WA21, YJLW21, BC22, BDR+20, CB23, EVFRHR23, FWL+24a, HSA22, KKPC23, KFHR24, LBRW22, LKP21, LZK+23, LG23, MDR+20, PLT+23, RL21]. **laser** [BAB+20, EBNS22, FN23, HA23, LLH21a, LMX+21, MXH+24, Nie22a, PMSHG23, RZY+24, SJY18, SJY20, Tan23]. **laser-electron** [Nie22a]. **laser-induced** [SJY18, SJY20]. **laser-plasma** [HA23]. **laser-produced** [MXH+24]. **lasers** [ZLMH23]. **latex** [RDZ+20]. **Lattice** [BBB20, DBdFdSR21, KBSH20, MD21, NL23a, PLSB22, YD20, vRCM21, AHP21, AS24b, CL22b, DACA+22, Dür23, EVFRHR23, FFTV23, FFLR20, FKK+21, GLSH21, IKM+23, JMOC21, Kub24, KAS24, LMWW24b, LLL24, MWJL23, MBC+24, MOY+22, QCZ23, RZ23, STA20, SKM+21, WA21, WSRO24, YCCW23, ZPZH20, ZPL+24, ASC+21, KK20]. **lattice-Boltzmann** [DACA+22]. **lattices** [BRAC23]. **LAVA** [DCRF23]. **laws** [HWAA22, OCR+22, Yev21]. **layer** [CML+24, MPH+24, OKBM23, MAMK21]. **layered** [WZC21]. **layers** [NTO24, Pöt20]. **lb** [DACA+22]. **lb/fluid** [DACA+22]. **LBcuda** [BLM+22]. **LBfoam** [ASC+21]. **LBsoft** [BMT+20, BLM+22]. **LCLS** [NCF+23]. **LCLS-II** [NCF+23]. **LCPAO** [YI22]. **leading** [ABB+22, PBC+24]. **leapfrog** [TKS22]. **learned** [MYKC23, RBV+22]. **Learning** [GUAD22, TGGC23, VEHCM21, ZKZ+24, AYB24, AUO+22, CFL+22, CWG+21, CZWE23, HPRS23, HJM+20, KRJ23, KKY24, LAC21, LCL+23, LDGN24, MLZ+23, MGG+20, MPN+21, SE24, SKS24, ST23b, TV24, TAGC22b, TSAK21, TGIM23, UD24, WAET22, YYZ+22, ZWC+20, ZGW20]. **learning-based** [CZWE23, UD24]. **Lebedev** [LLH+21b]. **Leffler** [CLEP24]. **left** [VSM+22]. **Legolas** [CK23]. **Lehmann** [KCS22]. **Lennard** [SHRK22]. **Lennard-Jones** [SHRK22]. **LEP** [AJW+21]. **LEP/SLC** [AJW+21]. **LeptogeneSiS** [GMPG+21, GLPG+23]. **Lepton** [AJW+21, AZH+24, AAD+24, JWW+23, KKSV24, LNP+24]. **LeptonInjector** [AAA+21]. **leptons** [SLP+22]. **LeptonWeighter** [AAA+21]. **leptoquarks** [CS22b]. **LES/DNS** [LBS+23]. **less** [AMA+20, BR20a, Pos22]. **Level** [YZZ+23, AHM+23, EVFRHR23, GSBN22, HWAA22, Hua24, KSG22, NT24, TGIM23, ZGZW23]. **level-3** [TGIM23]. **Level-set** [YZZ+23, HWAA22]. **levels** [CGV+22]. **LEVIS** [MPQ+22]. **LHC** [AES21, TPS+24]. **LHCb** [AAB+21, BDGS21]. **LIBAMI** [EML22]. **libdlr** [KCS22]. **libEMM** [Yan23]. **libFastMesh** [FZD+24]. **Libra** [Lee21b]. **Library** [HJM+20, ART+20, ABK+22, AS24b, BM20, BB24a, BFI+21, BIK+21, CK20a, CCL+22, DH22, DLD+21, FXZT21, FTG23, FPSZ21, GSBN22, HTH+20, HKY+21, KRC+20, KKPC21, MEDT+23, MRT+22, MT23, NJSY22, NBCMH20, Nie22b, OCC23, Par21, PPKK21, RDC+20, SVJ+24, SLDF+21, SZ24b, STRF+20, SJWL22, WAN+22, Yan23, YKK+23a, YMCF23, ZRZ+21].

**Lie** [FKS20]. **LieART** [FKS20]. **lifetime** [LU21]. **lifetimes** [GTMB21]. **lifex** [AFB+24a]. **lifex-cfd** [AFB+24a]. **ligand** [Ryd20]. **Light** [Hal21, LSNRD20, BKO20, KOT23, MR22, MS24, MLD+22, YYZ+22]. **light-** [MLD+22]. **lightweight** [RGS+21]. **like** [FN23, LHTP+24, Scr22a]. **likelihood** [BC20]. **likelihoods** [AKW21]. **LIMAO** [SJY20, SJY18]. **limiters** [VÁFG+22]. **Lindblad** [OEI+22]. **line** [Kut24, YJ24]. **Linear** [HW22, KCJX24, ZJM+21, AGMFGE23, AIZ23, BB21, DNG+20, FLW+23, GPM+21, HA23, HMSV23, LBS+23, MG22, Man24, NBC+24, PAL+20, PBC+24, RVRT22, RAJ+24, SLB+23, SLZY21, SJY18, SJY20, Yan21b, Yan24a, Zeb22]. **linear-** [SJY18, SJY20]. **Linear-scale** [KCJX24]. **linearization** [FYW23]. **linearization-based** [FYW23]. **linearized** [GMZ+20, HM24, KDK23, PPR+21]. **linearly** [CCW20]. **linearly-implicit** [CCW20]. **lines** [MM23]. **LIon** [BFT20]. **Liouville** [GBD+22]. **Liouville-Lanczos** [GBD+22]. **Liouvillian** [DEdM24]. **liquid** [BCF+24, BMI23, RSD20, SRT+20, UO20, XZLX20, dSOZ22]. **liquids** [MHÅ21, VCF22]. **LisbOn** [DdCAG23]. **LISE** [JRS+21]. **list** [Mar22]. **lithium** [WXW+21]. **lived** [ADH+20]. **load** [LWS+23, MLT+21, TPK+21, ZWZ+22, ZHZG23]. **load-decoupling** [ZWZ+22]. **loads** [KD23]. **Local** [IPSW24, LY24a, DCZ23, JLL+24, JRS+21, LTMK21, LW24, NVC20, PWD22, SKM+21]. **localised** [MSHP20]. **locality** [VHBK21]. **localized** [CF21, HLzY+20, Kor23, MSHP02]. **locally** [OKBM23, SBZ23, ZPL+24]. **locally-aligned** [SBZ23]. **locally-conformal** [OKBM23]. **logarithms** [ABB+22]. **logderivatives** [BTW20]. **logic** [AAG+24, KMN21]. **Long** [ADH+20, HG22, MP21]. **Long-lived** [ADH+20]. **long-range** [HG22]. **long-term** [MP21]. **loop** [ADC+21, AKK+24, FQRR22, HQRR20, KKM+20, KM20, KMS20b, RUV20]. **loops** [LMWW24a]. **Lorentz** [FH22]. **Lorenzetti** [ABF+23b]. **Low** [Kub24, VPS23, CE22, CL22a, CJ21, Gar21, JS22, JDD+21, Kul20, LHG24, MD21, NYN+21, VV21, ZLLM23]. **low-density** [ZLLM23]. **low-dissipation** [Kul20]. **low-energy** [Gar21, NYN+21]. **Low-mode** [Kub24]. **low-order** [CJ21]. **low-pressure** [JDD+21]. **Low-rank** [VPS23, CE22]. **low-speed** [LHG24]. **low-temperature** [VV21]. **lower** [RBV+22]. **lower-dimensional** [RBV+22]. **lowest** [BKG+23]. **lowest-order** [BKG+23]. **lp** [FLW+23]. **lubrication** [NLS24, SLC+22]. **luminescence** [TR22]. **luminosity** [Ada22]. **LWR** [NL23b].

**M** [Xav22, LM22]. **M-CHIPR** [Xav22]. **m-NLP** [LM22]. **M1** [LMMP23]. **M3D** [ZJM+21]. **M3D-C1** [ZJM+21]. **MAAT** [AMP+21]. **Mach** [MA24]. **Machine** [CWG+21, TGGC23, VEHCM21, AYB24, AUO+22, CK20b, CZWE23, HPRS23, HJM+20, KRJ23, KHR+23, LAC21, LCL+23, MGG+20, MYKC23, MPN+21, RBV+22, SE24, SKS24, ST23b, TV24, TAGC22b, UD24, WAET22, YM21]. **machine-learned** [MYKC23, RBV+22]. **machine-learning** [LCL+23, MGG+20, MPN+21, SKS24]. **machines** [WWDM20]. **macromolecular** [KDHL23]. **macroscopic** [PMSHG23]. **made**

[AMK24, GFH23]. **MADHAT** [BHK+21]. **MAELAS** [NAZ+22, NAZ+21]. **MAFIA** [MRG22]. **MAFIA-MD** [MRG22]. **MagGene** [ZZ21b]. **magnet** [HK24]. **magnetic** [AIZ23, BTK24, BM22, BKO20, CNB+23, DKRSR22, GO23, GBS+20, HHVB21, LL23, LGBJ20, LZYY23, LU21, LHTP+24, MZD+20, NRG22, NRG24, PTD20, RMR+22, Yan21a, YYC+23, YC20, YKSH20, YLL+22, ZYLY22, ZYL+23, ZZ21b]. **magnetic-field-** [LGBJ20]. **MagneticKP** [ZYL+23]. **MagneticTB** [ZYLY22]. **magnetism** [GOCSS+23]. **magnetized** [KOF21, MMP20, sXBkB+22, ZSqXY21]. **Magneto** [VGGP+21, DIAA21, NAZ+22, WDMZ24, NAZ+21]. **magneto-elastic** [NAZ+22, NAZ+21]. **magneto-hydrodynamic** [WDMZ24]. **magneto-optical** [DIAA21]. **Magneto-thermal** [VGGP+21]. **magnetohydrodynamic** [MGX24]. **magnetohydrodynamics** [LJQ+22, LMMP23, SMA24]. **magnetostatics** [ALB22]. **maintainability** [LTT+24]. **MAISE** [HTS+21]. **major** [WMA+22]. **Majorana** [WPMK21]. **Mammography** [BSG+21]. **MAN** [WAYL23]. **management** [CCC20, LYZL24]. **manifold** [LJQ+22]. **manifolds** [CB23, XQ21]. **manipulation** [Ols23]. **manufacturing** [SYFT23]. **Many** [GBJ+21, SDL+21, AJDS+21, ATRD21, DC22, MAJ20, NA20, OGL+21, PPKK21, RMM21, WS20, Xav22, XBL+20]. **many-** [OGL+21]. **Many-Body** [GBJ+21, ATRD21, DC22, MAJ20, PPKK21, RMM21, XBL+20]. **Many-core** [SDL+21]. **many-dimensional** [NA20]. **many-electron** [AJDS+21]. **manybody** [CT23]. **manycore** [RL21]. **map** [SRML20]. **Maple** [JWK+21, PMS20b]. **mapped** [MPSK21]. **mapping** [SFC20, Zeb22]. **March** [Ano20u, Ano21t, Ano22t, Ano23t, Ano24p]. **Markov** [HSMR+24, MMM23]. **MARLEY** [Gar21]. **Marlics** [dSOZ22]. **MARTY** [UMA21]. **MASAP** [KRL+24]. **mass** [KAB+21, Kub24, LM23, MP21, MLD+22, MDDI21, PC21, RTRB21]. **masses** [ABD+23, Efr23, HLM22]. **Massive** [SRML20, KKPC21, LYZL24, YKK+23a]. **Massively** [FWL+24a, KHR+23, AS24b, BBH+24, CHY+24, Cos22, DMS+22, KMM21, KSC+23, MDR+20, RYS+24, ZAW+21]. **Massively-parallel** [KHR+23]. **massless** [RUV20]. **Master** [FFLR20, ZXT22, ZXT23, BB24b]. **Master-field** [FFLR20]. **matched** [NTO24, OKBM23, Pöt20]. **matching** [HLM22]. **material** [ASPDL+21, DCRF23, MRH+23, MVF20, MYKC23, MYM+22, NYN+21, PP23, PFG22, Sij23, TRB20b, YGSW21]. **Materials** [AMP+21, SLL+21, AMK24, CL20, CHY+24, EGKH24, EL24, Eku24, GLN23, HTL+22, HJM+20, KKB+24, LDGN24, ONH+20, PB23, RMCC22, SA23, SLDF+21, TAB+22, TLC+21, TQGE23, UÁEPGBP24, VMRFC23, WWB22, WLF+24, YNV22, YNV23, YTC+20, YLH+20, ZYLY22, ZGZW23, ZWC22]. **Mathematica** [ABBD23, ABFP24, Ber24, Bzo21, FKS20, Fon21, Hid21, HCP20, LM23, PSW23, Tor20, Xav22]. **mathematical** [TRB20b]. **Mathematics** [CB23]. **MATLAB** [CR20, JZW+22, YJ24, dMMLOS20, KMBP24]. **matrices** [CGV+22, Fis24, HT24, MMM23, MRT+22]. **Matrix**

[WBvdH20, BGH22, BFCR24, BAB+20, CPL21, CCC20, FMCB+20, KIK20, Kut24, MBG+20, QJ21, RZ23, RMFB23, SLZY21, SKM+21, XFGS24]. **matrix-product-state** [SKM+21]. **Matsubara** [EML22]. **matter** [ABB+24, BRHT21, Jab22b, Jab24, LSZ23, May21, MHK24, NBS+20, Pag24, PAM24, Sch21, UAS22, BCD+21, GUAD22, OBC+24]. **MAX** [FLW+23]. **MAXIM** [YR21]. **maximally** [Kor23]. **maximally-localized** [Kor23]. **maximization** [AS24a]. **maximize** [MRT+22]. **Maxwell** [DGM20, GLB+21, KMD+21, LW24, LLH+21b, MOV21, PMK+23, QWZ+21, RJ21, YZW21, YKY+22, ZLL+24]. **May** [Ano20v, Ano21u, Ano22u, Ano23u, Ano24q]. **maze** [Ryd20]. **mbsolve** [RJ21]. **MCBTE** [PPR+21]. **MCC** [WXX24]. **MCGPU** [HLMB24]. **MCGPU-PET** [HLMB24]. **MCMC** [HL21]. **MCMC-based** [HL21]. **MCNNTUNES** [LAC21]. **MCNOX** [Hua24]. **mcrtFOAM** [FXQS21]. **MCS** [NL23b, YLK+20]. **MD** [CLZ+21, MRG22]. **MD2D** [LN23]. **mdapy** [WS23]. **Mead}** [PP23]. **Mean** [SHW+21, BN20, BN23]. **mean-field** [BN20, BN23]. **means** [Kul20, SJ20, UZB22]. **measure** [DRSZ23]. **measurement** [HTN21, MPSK21, WBF+24]. **measurements** [KAB+21, MYM+22]. **measuring** [HPP23]. **mechanical** [EL24, LZP+24, Ols23, SLDF+21]. **mechanically** [KvdW20]. **Mechanics** [Sha21, LYZL24]. **Mechanics-oriented** [Sha21]. **mechanism** [Kar22, LLY+22]. **mechanisms** [DIKSN24, FBC+21, KDIN+23, RAJ+24]. **mechanistic** [XLG+23]. **MechElastic** [SLDF+21]. **media** [BVV22, Hoh24, LLH+21b, MS24, OSK+21, SFS22, WZC21, XFH+22, YCCW23, YLLW24, ŻTR+22]. **Medical** [GSM+22, GOS+22]. **medium** [DRZ+21, Roh22, Tan23]. **Meek** [MHÅ21]. **MELASA** [FLK+20]. **melt** [CZY20]. **membrane** [ZBS+23]. **Memory** [MD21, EVMP20, LYZL24, MLT+21, ZWZ+22]. **Memory-efficient** [MD21]. **Menter** [VLS22]. **MercuryDPM** [WOP+20, OAP+24]. **merging** [BP21, DWD+24, LXY+21]. **Merlin** [ABK+22]. **mesh** [AMA+20, ASC+24, BBA+20, FXQS21, FAL20, FAL21, GKT+24, KKY24, LW24, MM23, NSY+23, PG23, SN23, SFBG20, SJP+21b, WDMZ24, ZDSS23, Zho23]. **mesh-adaptive** [SJP+21b]. **mesh-agglomeration** [FXQS21]. **mesh-free** [MM23]. **mesh-less** [AMA+20]. **mesh-refined** [LW24]. **meshes** [CS22a, KSF+22, PGYF21, PD23, RVRT22, TGBM22]. **meshing** [RSHS24]. **meshless** [JLL+24]. **meso** [TAB+22]. **meson** [KL23a]. **mesoscale** [AALK20]. **metal** [CXCZ23, CLZ+21, SRK+24]. **metals** [CWG+21, HM24, MOV21]. **metamaterials** [LW24]. **metastructures** [HSA22]. **metasurface** [KL23b, YWM23]. **Metasurfaces** [YR21]. **Metasurfaces-oriented** [YR21]. **Method** [MD21, PLT+23, RLW+24, STA20, ZTV+24, AUEO24, AMA+20, ATC+23, BA24, BCHE21, BN20, BND22, BN23, BDdM20, ČPF+24, CHA21, CJZ21, CHY+24, CL21, CB20, CF21, CLEPF23, CCW20, DZZ21, DCZ23, FJ22, FLW+23, FBMD20, FYM+22, GTE21, GLSH21, GRCT20, GB20, GGCW24, HPY21, HPAW21, HTL+22, HFP21, HKY+21, HA21, HJGL22, HGS20,

JKSY22, JĎD+21, KKLZ23a, KBB21, KSJ+22, KR23, KL23b, KFC+20, KMD+21, KYH24, Kut20, LEE+21a, LBM+23, LKP21, LKK23, LXY+21, LKP24, LF24, LLL24, LLZ+22, LJH+23, LS22, LDGN24, LMHUR23, LVMGF+23, LY24b, LNB23, MWJL23, MSH22, MBG+20, MZL+21, MSM24, MVAXP22, MOV21, MCP23, MRD23, MNS+24, NG21, Och23a, Och23b, ONH+20, OKBM23, PB23, PWD22, QCZ23, RBV+22, RC23, RV20, RV21, RCW+20, RVRT22, RCS21, SFBG20, SJP+21b, SLZY21, SXYD24, SNG20, SLC+22, SCMP+22, SCR+22b, SAC+21]. **method** [SS21b, TCD20, TTM22, TS23, TLC+21, TPCT22, eSdSBST21, WZZS21, WZC21, WWM+22, WA21, WLCF21, WLL22, WXZH24, WPMK21, WS20, WVK21, WNS+21, WYZZ23, XDF20, XSL+22, XFH+22, XPF+24, XLKX21, YT23, YS22, YWM23, YSX+20, YC20, YXX+21, YZHL22, YKK23b, YJ24, ZPZH20, Zha20, ZPL+24, ZYML24, ZZ21a, ZYX21, ZYX22, Zho23, ZHM21, ZLS+22, ASC+21, GSL24, LMHUR23]. **method-based** [KR23]. **Methodology** [SCMP+22, WBF+24, WZK+24, CML+24, SFKC22]. **Methods** [LSNRD20, AYB24, BBV+22, BCGT24, CL20, CJ21, DGM20, ELSV24, FYW23, GCWZ20, HAM+20a, HWL+23, HWZ24, IKM+24, JMOC21, KAB+21, KSF+22, KLMU21, KFC+20, KvH21, LHG+20, LH22, LH24, MGX24, MCB+20, NCF+23, PMK+23, PLL24, PAL+20, PM21, SL22, SLZ+24, SKM+21, SDBS24, UZB22, VPS23, YLIO22, YZW21, YWTK23, YK21b, YZZ+23, ZYXC24]. **Metric** [BTW20]. **metrology** [CDD22, HTN21]. **Metropolis** [SJ20]. **MeV** [Pos22]. **MFC** [BSC+21]. **MFDFA** [GHKW22]. **MGOS** [KRC+20]. **MHD** [CK23, FMBD22, MG22, SDXY23, TKS22, TWR21]. **MHFEM** [SFS22]. **Mi3** [HL21]. **Mi3-GPU** [HL21]. **Micro** [LLY+22]. **microfluidics** [AALK20]. **micromagnetic** [RMR+22, SE24]. **micromagnetics** [PRS+20]. **micrOMEGAs** [ABB+24]. **micron** [LU21]. **microparticles** [DHK+21, KT23]. **microrheology** [DG20]. **microscale** [KM23, MEC+24]. **microscope** [KLD+21]. **Microscopic** [Gul20, YYC+23]. **microscopy** [AUO+22, DG20, HGS20]. **microstructures** [EGLK20]. **Migration** [Gro22]. **million** [LWC+21, RZ23]. **MiMeS** [Kar22]. **Minimal** [AAT+20, AKK+24, AAT+14, KKM+20, LXY+21, May21, SSH+23, STRF+20, KM20]. **minimal-lagrangians** [May21]. **minimisation** [PGS+24]. **minimization** [IJVJ21, IUJ21, SE24, SAS20, SAN24]. **minimum** [NA20]. **Minkowski** [BMT23]. **Minnesota** [ZXT22, ZXT23]. **minor** [EGKH24]. **Mirheo** [AALK20]. **Misalignment** [Kar22]. **missions** [GSL+23]. **MISTER** [COW24]. **MISTER-T** [COW24]. **mitigate** [MD20a]. **MiTMoJCo** [Gul20]. **MITNS** [KOF21]. **Mittag** [CLEP24]. **Mittag-Leffler** [CLEP24]. **mixed** [LHC20]. **mixing** [Nog21a, NVCS23]. **mixtures** [LM21a, LB24, SLK23, ZLLM23]. **ML** [LNP+24]. **MLAnalysis** [GFD+24]. **MLQD** [UD24]. **mobile** [LLC+23]. **mobility** [MMC+21]. **MOC** [LLZ+23, WLL22]. **MOCOKI** [BB21]. **Modal** [WAYL23, KL23b]. **mode** [BDK+23, Kub24, ZJM+21]. **Model** [BHK+21, DPR+20, DRR+24, Gul20, RBV+22, ASU+21, AFJ+23, AHM+23,

BCHE21, BGW+22, BB21, BTK24, BCTS22, CFLR24, CL20, CZY20, CKT21, Dau23, DRB22, ET24, FJ22, FBA+20, HLCD20, JLW24, JPJ+23, KKSV24, KLD+21, KDK23, KM23, KW23, KAS24, LL23, LLH21a, LY24a, LGK+22, MMC+21, May21, MBCC23, NYN+21, NLS24, NRG24, OBL+21, RZY+24, RBFB20, SYFT23, SKYQ21, SZY+22, SZ23, SOH+23, SJWL22, SW23, TKS22, TCY+21, TCY23, TPK+21, TPCT22, TNL+22, VLS22, VEHCM21, WZZ+23, WYT23, WZC+24, YZL+23, YYH21, YK21a, YX24, YML+24, YWX+23, ZYLY22, ZGW20, ZSqXY21, Bie21, DDM20, HQRR20, KM20, KMS20b, MAJ20, UMA21]. **Model-Agnostic** [BHK+21]. **ModelFLOWs** [HCAH+24]. **ModelFLOWs-app** [HCAH+24]. **Modeling** [BB24b, RSHS24, Sha21, YD20, AHP21, AG21, ART+20, BFL+22, CFW+23, CML+24, EGLK20, FA20a, FLK+20, GUW+22, HSB+24, HyLF23, HRG+22, JYL+23, KRE22, KNJ+23, LMX+21, LZP+24, LSF23, LFL+24, MK22, MHK24, MMV+24, MYKC23, MT23, MOMO24, NRKA22, NI22, NLS24, PMA+21, PG23, RCX24, RRC+24, SFKC22, SMC+22, TAB+22, VB22b, WLZ+24, Yev21, YMCF23, ZGZW23, ZKZ+24, ZHZ+23]. **modelling** [BVV22, DRM20, HCAH+24, LS21a, MBG+20, MVAXP22, Org22, OXOG23, TDR+20, TRB20b, WNS+21, WSK+22, Yan23, Yan24b]. **Models** [GFH23, RMR+22, AKK+24, AES21, BRAC23, CZWE23, CSBF23, EVMP20, FSMM24, FA21, GZW20, GHK20, HTS+21, HSMR+24, Jab24, KPR+24, KC21, KVSC21, LLC+23, LSS24, Mau20, MD22, MPH+24, MDDI21, NRK+21, OSE+20, PCL24, PBC+24, RDZ+20, SZ24a, SBG23, SKM+21, YWTK23, YM21, YKYK23, ZWC+20, ZYL+23, Zho23]. **moderate** [GOST23]. **moderate/large** [GOST23]. **modern** [EOR21, FFTV23, HAM+20a, UMA21]. **modernization** [VXT+23]. **modes** [HRU22, JGJ20, WPMK21]. **modification** [BGW+22]. **Modified** [FA20a, BCGT24, HLCD20, YK21a]. **modular** [GRCT20, MOMO24, PAM24, SC20, WKJB23]. **modulation** [MNS+24, SBG23]. **module** [BGHC23, GK21, GBJ+21, GSM+22, GOS+22, HYL+22, LN23, MKPW21, MKPW22, MEH21, WHSG24]. **modules** [BDR+20]. **Moiré** [NNMJ22]. **Molecular** [LWC+21, MKPW21, MKPW22, MRG22, SOH+23, AHM+23, Bag22, BMREC21, BCTS22, CMJC21, CGR21, CDT22, DTGE21, FGCN+21, GDS+21, Ham20b, HyLF23, KHR+23, KRC+20, KMM21, KLM+22, LN23, LZP+24, LVMGF+23, MES+24, MHK24, MBCC23, NBC+24, Ols23, PCS+20, RZY+24, SMO+20a, SKC21, SC22, SSD+22, SZNW23, TCSD24, TRB+20a, VCF22, VXT+23, VvBTH20, Wor20, WS23, ZHI23, ZJS+20, YD20]. **molecule** [PRR23, PNL+24, SHRK22, Xav22]. **molecules** [BGHC23, BFMA+24, BAB+20, Hua24, KSG22, MBJB24, MBG+20, NI22, RZY+24, RV20, RV21, SJP21a, SMB20, TRN+24, ZLMH23]. **MolSSI** [BMREC21]. **MolTwister** [Ols23]. **Moment** [SJP+21b, CFW+23, HFP21, PLF20]. **Moment-preserving** [SJP+21b]. **moments** [Ume22, LMHUR23]. **momentum** [CCW20, CWJ21, JDS20, KPST21, Pöt20, ST23a, WJB21]. **monitor**

[Ada22]. **monodisperse** [KAG24]. **monokinetic** [LMHL20]. **Monte** [Kal20, ABGD+20, ASPDL+21, ACD+22, AJW+21, BRAC23, BB21, BCF+24, BKO20, BKS24b, BIK+21, BKBL22, BKG+23, CCM20, DRSZ23, DDM20, DdCAG23, ELSV24, FXQS21, GJA21, GAGO21, GHK20, HT24, HLMB24, HQF+20, Hua23, HSMR+24, Ilt21, JWW+23, JKKN23, KOT23, Koł22, Koł23, LEE+24, LMWW24b, LAC21, LTMK21, LLL24, LC24, LHWX24, MMM23, MT23, NL23b, Nie22a, OBL+21, PAZ+22, PLT+23, PYT+24, PPR+21, PC21, RSC+22, RCB21, Roh22, SNP+20, SJP+21b, SHS22, SNG20, SLIC24, TAY+24, WAN+22, WSRO24, WZPW20, YLK+20, ZHS+20, ZDLS21]. **Monte-Carlo** [BKS24b, BKG+23, GAGO21, JDD+21, RCB21, SJP+21b, ZDLS21]. **morphology** [ANU21, RDZ+20]. **mosaic** [SPF21]. **Moshinsky** [Efr21b]. **most** [PRR23]. **motion** [GSV23, ZHM21, dVAR+24]. **movements** [GTE21]. **moving** [FH22, HMR22, MDZ24, TCSA21, WDMZ24]. **moving-grid** [TCSA21]. **MP** [FN23]. **MP-CITDSE** [FN23]. **MPI** [LYZL24, YW21, ZHZG23]. **MPI-based** [ZHZG23]. **MPI-CUDA** [YW21]. **MPS** [eSdSBST21, XFGS24]. **MPS-VQE** [XFGS24]. **MQCT** [MBJB24, SMB20]. **mqdtfit** [Pot24]. **MRADSIM** [ACKB23]. **MRADSIM-Converter** [ACKB23]. **ms2** [FGCN+21]. **MSGCorep** [LZYY23]. **MSSM** [BHH+20, KMU+23]. **MSTor** [CZB+23]. **MTASpec** [KSG22]. **MTP** [MPN+21]. **MTP/ShengBTE** [MPN+21]. **muffin** [PAL+20]. **muffin-tin** [PAL+20]. **MuFinder** [HHMH+22]. **Multem** [SLL+24]. **Multi** [CZX+21, CJD+20, DS22, DKM+24, JWW+23, LLC+23, MDDI21, OCK+24, ADC+21, AG21, BP21, BSC+21, BW23, CZ21, CTZW23, COW24, CFW+23, Cos22, DRZ+21, DFU20, EGLK20, FJ22, FRN+23, GDS+21, GDJG23, GNP20, HPY21, HSA22, KMM21, KDK23, KMD+21, KMG+20, LSS24, MVK+24, MBC+24, MHK24, MPH+24, Nor23, OGL+21, PMK+23, PWD22, PG23, RMR+22, RZ23, SNP+20, SPMS23, Sij23, TPCT22, WZPW20, Xav22, XLL+22, XPF+24, Yan21a, YFL22, YKK+23a, YKK23b, ZPZH20, ZW20, ZRZ+21, FLK+20]. **multi-architecture** [Nor23]. **multi-block** [Cos22]. **multi-center** [GDS+21]. **Multi-component** [DKM+24, BSC+21]. **multi-core** [KMM21, OGL+21]. **multi-dimensional** [KMD+21, PMK+23, WZPW20]. **multi-direct-forcing** [ZPZH20]. **multi-electron** [COW24]. **multi-field** [GNP20]. **multi-fluid** [MPH+24, PG23]. **multi-function** [CZ21]. **Multi-GPU** [DS22, OCK+24, DRZ+21, DFU20, EGLK20, HPY21, MVK+24, MBC+24, MHK24]. **multi-GPU-based** [YKK+23a]. **multi-GPUs** [WZPW20, ZW20]. **multi-grid** [BW23]. **multi-group** [Sij23]. **multi-harmonic** [LSS24]. **multi-ion-species** [SNP+20]. **multi-jet** [BP21]. **multi-loop** [ADC+21]. **multi-material** [Sij23]. **multi-million** [RZ23]. **multi-moment** [CFW+23]. **Multi-objective** [CZX+21, KMG+20, SPMS23]. **multi-orbital** [PWD22]. **multi-phase** [BSC+21, FLK+20]. **Multi-photon** [JWW+23]. **multi-physical** [YFL22, YKK23b]. **Multi-physics** [LLC+23, AG21, FRN+23, GDJG23, XLL+22, XPF+24, ZRZ+21].

**Multi-Rate** [MDDI21]. **multi-region** [Yan21a]. **multi-resolution** [ZRZ+21]. **multi-scale** [BSC+21, CTZW23, FJ22, TPCT22]. **Multi-species** [CJD+20, KDK23]. **multi-stable** [HSA22]. **multi-state** [Xav22]. **multi-term** [LSS24]. **multi-threaded** [AG21]. **multi-timescale** [RMR+22]. **multicenter** [HG22]. **multichannel** [Koł23, Pot24]. **Multicolor** [Ume22]. **multiconfiguration** [LWS+23]. **multiconfigurational** [Hua24]. **multicoordinate** [LKK23]. **multidimensional** [Bar22b, KMBP24, RBV+22, Yan24b]. **Multidisciplinary** [WKR23]. **multielectron** [BAB+20]. **multifractal** [GHKW22]. **multigrid** [EVFRHR23, FKK+21, TS23, UJ21]. **multigroup** [MXH+24]. **MultiHypExp** [Ber24]. **multilayered** [BVV22]. **multilayers** [LL23]. **Multilevel** [ELSV24, YYY22, WSRO24]. **multiloop** [Lee21b]. **multiobjective** [NCF+23]. **multiphase** [CESD+23, FA20b, RLW+24, SPLD20, TO21, YCCW23]. **Multiphysics** [ARLDG24, MEDT+23, SPLD20, Zho23]. **Multiple** [Jab22b, ZK20, Ber24, CCM20, CGSO20, DC22, JM24, KDHL23, ODR+22, PNL+24, SZ23, WA21, KOF21]. **Multiple-Ion** [KOF21]. **multiple-thread** [PNL+24]. **multiply** [KMM21]. **multipole** [CB20, KKLZ23a, TCD20, WZC21, WVK21, YT23]. **Multipolynomial** [LMWW24b]. **multiresolution** [GP22, HWAA22]. **Multiscale** [LWV20, SD24, AS24a, FTZ+23, LFL+24, SGY24, Tan23, ZHZ+23]. **multistable** [MOA24]. **multistructural** [CZB+23]. **Multithreaded** [LTMK21, LLR23]. **multiUQ** [TO21]. **multivariable** [ABFP24]. **multivariate** [AKL+21, BBH+24, Ber24, EBBB22]. **MultivariateApart** [HvM22]. **multizone** [LLZ+23]. **MuMuPy** [UAS22]. **MUNHECA** [EES24]. **munuSSM** [Bie21]. **muon** [BFI+21, EES24, HHMH+22]. **muon-nuclear** [BFI+21]. **muon-rich** [EES24]. **muphy** [ARLDG24]. **MUSES** [SMA24]. **mVMC** [XOTI22]. **MXAN** [BDP+21]. **MXE** [MP21]. **MyElas** [WGGC22].

**N** [Haz23, NUK+22, VMRFC23, LNB23, SGM+20]. **N-on-Equilibrium** [SGM+20]. **N-shaped** [LNB23]. **Nano** [SLIC24, WMA+22]. **Nano-** [SLIC24]. **nano-optics** [WMA+22]. **nanobem** [Hoh24, HRU22]. **nanodrop** [SD24]. **nanoheteroepitaxial** [DZZ21]. **NanoNET** [KVSC21]. **nanoparticle** [WAK22]. **nanoparticles** [HT24]. **Nanophotonic** [HRU22, Hoh24]. **nanophotonics** [BFCR24]. **nanoporous** [XBL+20]. **nanoscale** [KGN+21, MMM20, MP21, TRB20b]. **nanostructures** [PWC24, RZ23, SHS22]. **nanosystems** [MVK+24]. **nanowire** [CW22]. **nanowires** [CSW24]. **natural** [PM21, RSD20, SRT+20, SLE+22]. **natural-orbital-functional-based** [PM21]. **Nauticle** [HT20]. **Navier** [WHSK24, BMS+23, DAC+23, HPY21, HWL+23, JM24, KSF+22, MOMO24, ZX23]. **nccrFOAM** [MEC+24]. **NCrystal** [CK20a, KC21]. **near** [UYS22, ZWZ+22]. **near-continuum** [ZWZ+22]. **nearest** [WZC+24]. **nearshore** [TL20]. **NeatIBP** [WBM+24]. **neBEM** [DBM+24]. **needed** [Jab22a]. **neighbor** [WZC+24]. **Nek5000** [MPS+24]. **NekMesh** [GKT+24].

**Nektar** [LBS+23, LIG+24, MCB+20]. **Nelder** [PP23]. **NEMOH** [KD23]. **neoclassical** [SNP+20]. **Nernst** [ZX23]. **NESSi** [SGM+20]. **net** [DH20, ZLY24]. **Network** [LPSK20, BRAC23, BB24a, CDD22, CGZ+20, DRB22, ET24, HTS+21, KHKL24, LY24b, MM22, MOY+22, WZC+24, YKYK23, ZHI23, ZYML24]. **network-based** [LY24b]. **Networks** [LY22, SWZ23, AM21b, BKS22, KKP22, LSF23, RRC+24, Rod22, ZLY24, vdHKB+23]. **Neural** [LY22, LPSK20, SWZ23, BRAC23, BB24a, BKS22, CGZ+20, DRB22, ET24, HTS+21, KHKL24, KKP22, LSF23, LY24b, MM22, RRC+24, Rod22, WZC+24, YKYK23, ZHI23, ZYML24, ZLY24, vdHKB+23]. **neural-network** [WZC+24]. **neutral** [AZH+24, SLP+22, TKS22]. **neutrino** [AAA+21, AZH+24, AAG+20, ASW22, Gar21, KTF22, Pag24]. **neutrino-nucleus** [AZH+24]. **Neutrinos** [EES24, GLW+23]. **neutron** [CK20a, CKC+21, CL21, CLEPF23, CLEP24, KJL+23, KC21, MKPW21, MKPW22, VGGP+21, WBF+24, WLL22, XSL+22]. **neutrons** [BCT20]. **Newly** [IKM+24, LHWX24]. **Newton** [AG21, LVMGF+23, SLC+22, Zho23]. **Newtonian** [AHP21]. **Next** [AAT+14, AAT+20, ABB+22, WZC+24, KM20]. **next-nearest** [WZC+24]. **next-to-leading** [ABB+22]. **Next-to-Minimal** [AAT+20, AAT+14, KM20]. **NIC** [RHW+21]. **NIC-CAGE** [RHW+21]. **Nicolson** [LNB23]. **nitride** [HLCD20]. **NLO** [SY20]. **NLOX** [FQRR22, HQRR20]. **NLP** [LM22]. **NNPred** [LSF23]. **noble** [TNL+22]. **Nodal** [WNS+21, SS21b, XSL+22, YZHL22, Zho23, ZLS+22]. **nodal-staggered** [ZLS+22]. **node** [GSBN22]. **node-level** [GSBN22]. **nodes** [PP23, YZHL22, PP23]. **noise** [LMWW24a, TCcN23]. **noising** [TAGC22a]. **noisy** [KIK20]. **nominal** [SFBG20]. **Non** [DNG+20, JLL+24, Kar23b, KKY24, MGX24, NA20, AHP21, AKK+24, ADW+23, Dau23, DFP+20, DH20, Efr23, FMBD22, GBS+20, GOCSS+23, JDS20, KKM+20, LBS+23, LHG+20, MES+24, MEC+24, NVC20, PCS+20, QCZ23, RHLTG+22, RG21, RVRT22, SYFT23, SJ21, SLB+23, SBZ23, VXT+23, VB22b, WLCF21, XSM22, ZYLY22, ZYL+23, ZZ21a, ZCS+24]. **non-aligned** [SBZ23]. **non-bonded** [VXT+23]. **non-collinear** [GOCSS+23]. **non-convex** [LHG+20]. **Non-empirical** [NA20]. **non-equilibrium** [MES+24, MEC+24, SYFT23, ZCS+24]. **non-flat** [SJ21]. **non-identical** [XSM22]. **non-isothermal** [RHLTG+22]. **Non-iterative** [KKY24, WLCF21]. **Non-linear** [DNG+20, LBS+23, RVRT22, SLB+23]. **Non-local** [JLL+24, NVC20]. **non-magnetic** [LL23, ZYLY22, ZYL+23]. **non-minimal** [AKK+24, KKM+20]. **non-Newtonian** [AHP21]. **Non-Oscillatory** [MGX24]. **non-pairwise** [RG21]. **non-periodic** [FMBD22]. **non-reactive** [ADW+23]. **non-spherical** [QCZ23, ZZ21a]. **Non-standard** [Kar23b]. **non-thermal** [DFP+20]. **non-uniform** [PCS+20, VB22b]. **non-vanishing** [JDS20]. **non-zero** [DH20]. **nonadiabatic** [SZT24]. **noncentral** [GST21]. **nonequilibrium** [FTZ+23]. **nonequispaced** [YW21]. **Nonintrusive** [TGS+20]. **Nonlinear** [KSJ+22, MEC+24, BJL+24, BCGT24, CLS22b, DTC20, FBA+20, GTA21, GGCW24, GMZ+20, Hua24, JLL+24, KBB21,

LDGN24, NS20, SMA24, SCL22, WXY20, WHSK24, WKR23, ZJM+21]. **nonlocal** [AB21, BDA+20, CLVV22, CSW24, MZV23]. **Nonrad** [TAE+21]. **nonradiative** [TAE+21]. **nonsequential** [TNL+22]. **nontrivial** [Pöt20]. **nOOn** [BCT20]. **NORA** [Sit23]. **norm** [TIG+24]. **norm-conserving** [TIG+24]. **normalizing** [BKS24a]. **nouveau** [PGS+24]. **novel** [Ano20c, JLL+24, KK16, LC24, LNB23, PMS+20a, SFKC22, SCMP+22, SCR+22b, TCY+21, WLL22, YZW21, Yan21b, ZHZG23]. **novelties** [ADH+20]. **November** [Ano20w, Ano21v, Ano22v, Ano23v]. **NSC** [Kar23b]. **NTMpy** [ASU+21]. **nuclear** [AAMY23, BFI+21, COJ+22, CCG21, DR21, GUAD22, GSV23, Hor23b, KJL+23, LLC+23, LLL24, MAJ20, TBAR21, Zho23]. **nuclear-decay** [Hor23b]. **nucleation** [Bar22a, WNS+21]. **nuclei** [GCK21, MLD+22]. **Nucleon** [BDA+20, Kar23a, MLD+22, OYC24, SW23]. **nucleosynthesis** [AAHJ20]. **nucleus** [AZH+24, BDA+20, GJJN23, MLD+22, NRK+21]. **nuclide** [BOSM24, LWhK+20]. **nudged** [BFD22]. **number** [ATRD21, CdBMdAS+21, HFP21, LLT+23, MD21]. **numbers** [CXCZ23, Nog21b]. **numeric** [HLzY+20]. **Numerical** [AS22, Arn20, Bar22b, CKT21, GMZ+20, HJK+24, KOF21, KRE22, MPQ+22, NS20, SZ23, SSV22, WJB21, WWB22, WHB21, WW21, ADC+21, Bak23, BMSP21, BTG22, CFBRE24, CZY20, FA21, GSLS20, GOCSS+23, GWA+23, GHL+22, GB20, KSF+22, KPL+21, KFC+20, Kul20, LM21a, LS21a, MPS+24, MN21, NSU20, PG23, SGY24, THH21, VB22b, WAK22, Yan21b, YWM23, ZCWY20, ZRH21]. **Numerically** [LHTP+24]. **Nunziato** [Dau23]. **NuSD** [KTF22]. **nuSQuIDS** [ASW22].

**O** [NUK+22]. **O-SUKI-N** [NUK+22]. **Object** [BC22, CB23, JKST22]. **Object-oriented** [BC22, CB23, JKST22]. **objective** [CZX+21, KMG+20, SPMS23]. **objects** [GTE21]. **observable** [YZL+23]. **observables** [CNB+23, KKSV24, PAM24]. **observatories** [AAA+21]. **obtain** [GWPW21, VMRFC23]. **obtaining** [AUEO24, DBdFdSR21]. **ocean** [GG24]. **OCTAVE** [MN21]. **October** [Ano20x, Ano21w, Ano22w, Ano23w]. **octree** [KSF+22, TS23]. **OECP** [YMCF23]. **off** [AB21, DVC+22, MPH+24, MAMK21]. **offload** [SYFT23]. **Ohmic** [SZ23, VGGP+21]. **Ohta** [CZY20]. **Oldroyd** [AGH21]. **Oldroyd-B** [AGH21]. **Olsson.wl** [ABFP24]. **on-site** [CXCZ23]. **on-the-fly** [BMREC21]. **one** [AKK+24, BV21, FQRR22, GAJK23, GSLS20, GSV23, Hid21, HQRR20, KKM+20, KM20, KMS20b, LC24, MWJL23, OCE+23, SFBG20, TMH+23]. **one-dimensional** [BV21, Hid21, OCE+23]. **one-electron** [GSV23, SFBG20]. **one-loop** [AKK+24, FQRR22, HQRR20, KKM+20, KM20, KMS20b]. **one-point** [LC24]. **one-step** [MWJL23]. **OPAL** [ASA+22]. **OPAL-FEL** [ASA+22]. **Open** [GDK21, HMYH22, HKY+21, KD23, WNS+21, WSK+22, AFB+24a, ASU+21, ADF+22, ASC+21, BC20, BM22, BLN+21, BMT+20, BFI+21, BSC+21, CAWK22, CZS+21, CPL21, COW24, CSW24, CW22, CKGW22, DIK+23, DNG+20, DFU20, DAA+24, DBBP23, FTZ+23, FH22,

GDJG23, GKT+24, GFD+24, HSB+24, HXS20, HWL+23, HLMB24, HRG+22, Hua23, HHT+24, KGN+21, KGT22, LEE+24, LMHL20, LH22, MLZ+23, MBTB21, MMP+24, MFB23, MONW21, MAJ20, MVF20, MVAXP22, MRN20, NBC+24, Nor23, DARJ23, PM21, PWC24, RZWW23, RHW+21, RJ21, SPLD20, SHB+20, SHW+21, SWTC23, TPK+21, XOTI22, YKSH20, YMCF23, YKK23b, zYCD+20, ZRZ+21, ZJS+20, ZCS+24]. **open-ended** [YMCF23]. **Open-source** [GDK21, HMYH22, HKY+21, KD23, WNS+21, WSK+22, AFB+24a, ADF+22, ASC+21, BM22, BLN+21, BMT+20, BFI+21, BSC+21, CZS+21, COW24, CSW24, CW22, CKGW22, DIK+23, DFU20, DAA+24, FTZ+23, FH22, GDJG23, GKT+24, GFD+24, HSB+24, HXS20, HWL+23, HLMB24, HRG+22, HHT+24, KGT22, LEE+24, LMHL20, LH22, MLZ+23, MBTB21, MMP+24, MFB23, MONW21, MVF20, MVAXP22, NBC+24, Nor23, DARJ23, PM21, PWC24, RZWW23, RHW+21, RJ21, SPLD20, SHB+20, SHW+21, SWTC23, TPK+21, XOTI22, YKSH20, YMCF23, YKK23b, ZRZ+21, ZCS+24]. **OpenACC** [HT24, EVMP20]. **OpenDust** [KT23]. **OpenFOAM** [CS22a, FCSP20, FA20a, FA20b, KRE22, KG21, MEC+24, NJSY22, OCC23, SN23, SWTC23, TPK+21, TGS+20, UJ21, VV21, Yan21a, YFL22, Zha20, ŻTR+22]. **OpenFOAM-based** [NJSY22]. **OpenFOAM(R)** [KFC+20, MDDI21, OXOG23]. **OpenFSI** [YSX+20]. **openFuelCell2** [ZHM+24]. **OpenMC** [LEE+24, LEE+24]. **OpenMP** [HJGL22, MBA21, SYFT23, YSMBA23, EVMP20]. **OpenMPI** [DS22, PTH24]. **OpenNTP** [LEE+21a]. **OpenSANS** [MZV23]. **OpenSBLI** [LJS21]. **Operating** [CTPS22, KRC+20]. **operation** [HBM+24]. **operations** [BBV23, CB23]. **operator** [FKK+21, HS24, KSJ+22, KDK23, SNP+20, WJB21, WWB22]. **operators** [CB20, GBS+20, HG22, RVRT22, YT22]. **Operon** [BB24b]. **OPSimTool** [Kan23]. **optical** [AGMFGE23, AB21, BMP+24, BRHT21, CMS22, DIAA21, HMSV23, Kan23, MD22, OV23, SKEZ24b, SLB+23, UÁEPGBP24]. **optics** [KGN+21, WMA+22]. **Optimal** [SRK+24, BB21, Cas24, COW24, Gai20, JM24, KKY24, LY24b, RHW+21, RBWD+24, RRM+23, RDZ+20, Tan24]. **Optimisation** [TWW22, Bar22a, TV24]. **optimised** [TIG+24]. **optimistic** [NBCMH20]. **optimization** [AS24a, CdBMdAS+21, CZX+21, FLW+23, FBC+21, HTS+21, KL23b, KMG+20, KM22, LDGN24, MTY+22, NCF+23, RdPS24, SPMS23, VHBK21, WYHW24, WBK+24, WWJ+22, YK21b, YNMR24, ZZC20]. **optimizations** [HK24]. **Optimized** [RAJ+24, VTB+21, XOTI22, YSI+24, CL20, CCL+22, FZD+24, LYZL24, RdSH+24, TMH+23]. **Optimizing** [HTL+22, SHRK22, WSRO24, CB20, Gon22]. **OptiSMOKE** [FBC+21]. **optoelectronic** [DSQ23, VMRFC23]. **Orb** [LOT+20]. **ORB5** [NBB+21, OGL+21]. **orbit** [BKRG22, BJS+23, BRHT21, FBA+20, GOCSS+23, KRG21, MBA21, RVM+21, YHH+20]. **orbital** [BW23, GM20, HLCD20, MHK24, PAL+20, PWD22, PM21, RZY+24, ZRH21]. **orbital-free** [BW23, GM20, MHK24]. **orbitals**

[GOCSS+23, SLE+22, ZXW+22]. **orbits** [JDS20, JSS+24, MPQ+22]. **order** [AIZ23, BBV+22, ADF+22, BBA23, BSC+21, BKG+23, ČPF+24, CJ21, CWJ21, DBV+24, DFU20, DEdM24, EVMP20, EPM23, FJ22, FRN+23, GBS+20, GZW20, GHL+22, GKT+24, GGCW24, GMZ+20, HWL+23, HCAH+24, KBB21, KSF+22, KD23, LM21a, LF24, LLS+21, LLZ+22, LLY+22, MDP22, PMSHG23, PLL24, PB23, PLF20, PG23, PCS+23, QWZ+21, RZY+24, RCW+20, SP20, SDBS24, TCY23, Tan24, TSL21, VLS22, WXY20, XPF+24, YS22, Yan21b, YK21b, YKK23b, ZCWY20, Zho23, ZZZ+20, ZLS+22]. **ordering** [TCY23]. **ordinary** [DEdM24, MCP23]. **organic** [BMR+24a]. **orientation** [AE23, OS24, SJY18, SJY20]. **oriented** [ACD+22, BC22, CB23, DFU20, JKST22, Sha21, Soz21, YR21, YK21b]. **orthogonal** [RYS+24]. **orthogonality** [ÖAÖ24]. **orthonormal** [DEV20]. **oscillating** [SPTPR21]. **oscillation** [GLW+23, Pag24]. **oscillations** [Dan23]. **Oscillator** [Efr23, BDdM20, Efr21b, MSN+22, SKEZ24b, SMGK21]. **oscillators** [FH22]. **Oscillatory** [MGX24]. **Oslo** [MZL+21]. **osmo** [FFTV23]. **OSSCAR** [DBBP23]. **otebook** [VMRFC23]. **other** [ADH+20, KKL21, MS24, ZHM+24]. **OTSLM** [LSNRD20]. **out-of-equilibrium** [WWB22]. **overhead** [BGR23, VHBK21]. **overlaps** [AJDS+21]. **overrelaxation** [BJL+24]. **overset** [CS22a].

**P** [VMRFC23, SHS22, VMRFC23]. **P-TRANS** [SHS22]. **PACIAE** [SZY+22, YZL+23]. **Package** [GNP20, PMS20b, AGMFGE23, ASU+21, ASPDL+21, ACS+22, ABBD23, AYI+24, AGK+23, ASC+21, Bag22, BA24, BYWW23, BBH+24, BFT20, Ber24, BWW20, Bie21, BM22, BCD+21, Bzo21, CMS22, CDD22, CZWE23, COW24, CSW24, CW22, DKRSR22, EBNS22, EST23, FASD20, FH22, Fon21, GAJK23, GK21, Gal22, GST21, GvdBdGN24, GBR23, HyLF23, HHVB21, HPP23, Hid21, HGS20, JWK+21, JCM20, JRS+21, JPJ+23, KH23, KRL+24, KDHL23, Kür23, Lee21b, LKK23, LCL+23, LZK+23, LYX22, LCZ+21, LM23, LZYY23, LH22, MD22, MP21, MHK24, MOMO24, MTY+22, NG21, NKP20, OBC+24, PAL+20, PSW23, PTD20, RHLTG+22, RHW+21, RZY+24, RYS+24, Sat21, SGM+20, SXW+20, SAS20, Sit23, SAN24, TR22, Tor20, TMH+23, TO21, UD24, VCF22, VB22a, WZZ+23, Wor20, WZPW20, WBM+24, XBL+20, YSX+20, ZYLY22, ZYL+23, ZPL+21, dSOZ22, vdHKB+23]. **packages** [ABFP24, SHW+21]. **packet** [Dio23]. **Padé** [PPK22]. **Pair** [AJW+21, BKBL22, JWW+23, Jia20, KKB+24]. **PairDiag** [LQ21]. **PairDiagSph** [LQGL21]. **pairing** [GQ22, LQ21, LQGL21]. **pairs** [ABWZ23]. **pairwise** [HAA+20, Mar22, RG21]. **PAMCARS** [ZHS+20]. **panel** [SCMP+22, SCR+22b]. **PANNA** [LPSK20]. **paper** [GDK21]. **paper-based** [GDK21]. **Parabolic** [OSE+20, ASU+21, BCGT24]. **paradigm** [MMV+24]. **Parallel** [AHM+23, ASC+24, BR20b, DS20, HMR22, Ham20b, HW22, JM24, SRT+20, ACS+22, AS24b, BM20, BKP22, BGW+22, BBH+24, BB24b, BMT+20, CZS+21, CCC20, CJZ21, CHY+24, Cos22, DMS+22, DIKSN24, EVMP20, FWL+24a, GTMB21, GAGO21, HJGL22,

KWZ24, KF23, KHR+23, KKPC21, KDIN+23, KMM21, KSC+23, KFHR24, LBRW22, LLZ+23, LYZL24, LMHUR23, LNB23, MD20b, MW21, MAMK21, MDR+20, Nor23, OIA+20, RCB+20, RS20, RYS+24, SXW+20, SLZY21, SBG23, WWZ+23, WLZ+24, XLKX21, YS22, YCC22, Yan23, YML+24, YKY+22, ZAW+21, ZWZ+22, ZLMH23, ZHZG23, AACE+21, BBH+24].
**Parallel-in-time** [JM24]. **paralleling** [DRZ+21]. **Parallelisation** [UJ21].
**parallelism** [MLT+21]. **Parallelization**
[DBM+24, TCD20, DFG+23, GB22, RCX24, YSI+24, ZWP+22].
**Parallelized** [BSK+22, CGR21, KKLZ23a, LKP21]. **parameter**
[GJ24, HPRS23, LWV20, SMC+22, SZ24a, TSAK21, ZW20].
**parameterizations** [Koł23]. **parameters**
[CL20, CFL+22, DBdFdSR21, FA21, GOST23, HHVB21, HLCD20, Jab22a, MMCC+22, NKP20, SKC21, SHRK22, TMC22, TNL+22]. **parametric**
[RUV20, SKEZ24b]. **parametrised** [TGS+20]. **Parametrization**
[OKBM23]. **Parametrization-free** [OKBM23]. **parametrized**
[AFB+24b, BDGS21]. **ParamGULP** [DBdFdSR21]. **PARCE** [OSLC21].
**PaReDiSo** [PTH24]. **Pareto** [KMG+20]. **Pareto-frontal** [KMG+20].
**PARIS** [AACE+21]. **Parrinello** [vdHKB+23]. **PARSEC** [LYC20].
**PARSIFAL** [AFB+24b]. **parsimonious** [SJ20]. **Part** [PLT+23].
**PArthENoPE** [GdSPC22]. **Partial**
[Pos22, BBH+24, GHL23, HvM22, OV23, SJP21a, ZLY24]. **Partial-wave**
[Pos22, SJP21a]. **partially** [MR22, MS24, MM23]. **Particle** [AMA+20, ANU21, DHK+21, FAL21, JCM20, KPR+24, YYC+23, ABK+22, AYWKL24, ASC+24, BCHE21, BKB+21, BC21, BTK24, BFL+22, CGSO20, CTZW23, DC22, DBH+22, DWD+24, Efr20, Efr21a, Efr23, FN21, FJ22, FTZ+23, FRN21, FA21, FYM+22, GWA+23, GH21, GSBN22, GB20, HT20, HFP21, JSS+24, KP23, KMU+23, KSC+23, LBRW22, LG21a, LMX+21, LAD+21, LLT+23, LM20, LMQ+23, LYZL24, MK22, Mar22, May21, MRH+23, MHP23, MLT+21, MMYU22, MPQ+22, MBE+21, NTO24, NSY+23, NR21, NBS+20, NBB+21, NRG24, ODR+22, OCR+22, OBGA24, OAP+24, PAM24, PYT+24, PSMRS+23, PK24, PCS+20, RDH+20, RZH22, RC23, SRC21, SFKC22, SDP24, SLL22, STRF+20, SWB+23, SMGK21, SBP20, TV24, THH21, TWR21, TAGC22b, TGGC23, TAB+22, TAY+24, Ume22, VEHCM21, VRI24, WWM+22, WOP+20, WS20, XBL+20, XQ21, XHY+24, YC20, YGSW21].
**particle** [YWX+23, YZZ+23, ZK20, ZRZ+21, ZDSS23, ZZC20, ZZ24, ZHZG23, ZLS+22, ATRD21, DFG+23, DWD+24, FAL20, FA21, JĎD+21, KG21, OGL+21, SAC+21]. **Particle-based** [KPR+24, HT20, TAB+22].
**Particle-In-Cell** [FAL21, YYC+23, ASC+24, BCHE21, BC21, BTK24, CTZW23, DBH+22, FN21, FYM+22, LMX+21, LAD+21, MRH+23, MLT+21, NTO24, OCR+22, PSMRS+23, RC23, SWB+23, TWR21, Ume22, XHY+24, YC20, YWX+23, ZK20, ZDSS23, ZLS+22, DFG+23, DWD+24, FAL20, FA21, OGL+21, SAC+21, JĎD+21, KG21]. **Particle-in-Cell/Monte-Carlo**
[JĎD+21]. **particle-laden** [GWA+23, GB20]. **particle-laser** [LMX+21].
**particle-matter** [NBS+20]. **Particle-number** [ATRD21]. **particle-swarm**

[ZZC20]. **particles** [AGJ+23, ADH+20, FBA+20, Kür23, LJQ+22, LHWX24, Nie20, PCL24, RDZ+20, SLLA22, SA23, SAC+21, TCcN23, YFL22, ZZ21a]. **Particlization** [MEH21]. **particulate** [QCZ23]. **partition** [LNB23]. **partitioning** [Xav22]. **pARTn** [PGS+24]. **Parton** [CCMR21, SZY+22]. **parts** [WBM+24]. **PaScaL_TCS** [KKPC23]. **PaScaL_TDMA** [KKPC21, YKK+23a]. **passage** [KKY24]. **Past** [Sjö20]. **patch** [ASC+24]. **patch-based** [ASC+24]. **Path** [PBC+24, KDHL23, Sva24]. **pathological** [HMM22]. **paths** [NA20]. **pattern** [HT24, Kan24]. **patterns** [JLW24]. **Pauli** [WBvdH20, XQ21]. **Pauling** [ZHS+20]. **Paulo** [CCG21]. **PBCAVE** [BBA+20]. **PDE** [OIA+20]. **PDFFlow** [CCMR21]. **PDMC** [PLT+23]. **Peak** [ZWG+24]. **peakon** [ZYXC24]. **PENELOPE** [GAGO21]. **penetration** [BKB+21]. **Peng** [ZLLM23]. **PenRed** [GAGO21, OBGA24]. **pentaquark** [GBJ+21]. **Perfectly** [Pöt20, NTO24, OKBM23]. **Performance** [LKP21, TBAR21, WLZ+24, AALK20, BPMMP24, BBC+24, BLM+22, BDR+20, CZTF23, DRB22, DIKSN24, FAL20, FAL21, GAS+23, HSA22, KDIN+23, KMM21, KPL+21, MT23, OSK+21, OLNG21, RBFB20, SRE+24, SGY24, SSV22, WRM+24, YJLW21, YML+24, YKK23b, YLK+20, ZMC23]. **performant** [BB24a, RLW+24]. **performing** [SC22, VCF22]. **Peridynamic** [LFL+24]. **peridynamics** [LC24]. **Periodic** [GVV22, HPP23, FMBD22, JDS20, KAG24, LXY+21, MD20a]. **peripheral** [BCT20, BKBL22]. **Perl** [HBM+24]. **Perl-based** [HBM+24]. **permaFoam** [OXOG23]. **Permafrost** [OXOG23]. **permanent** [HK24]. **permittivity** [YMCF23]. **permutation** [YLIO22, Zeb22]. **perspective** [LC24]. **Perturbation** [RTRB21, ATRD21, GBD+22, LACL24, SLZY21, SDL+21, TMC22, Gal22]. **perturbations** [YYC+23]. **Perturbo** [ZPL+21]. **PET** [HLMB24]. **PETOOL** [OSE+20]. **Pfaffians** [XOTI22]. **pfd** [BBH+24]. **pfd-parallel** [BBH+24]. **PFLOPS** [IKM+23, LWC+21]. **pgm** [WZZ+23]. **pGrAdd** [WV22]. **PHARE** [ASC+24]. **phase** [AYI+24, Bar22a, BMM21, BBA23, BND22, BSC+21, CAWK22, CFLR24, CZY20, Dau23, EST23, ENK24, FDPT23, KMN21, KBSL22, Koł23, KNJ+23, MMFdL21, MA24, NBB+21, PBK21, RSD20, SRT+20, SZ23, SFS22, TCSA21, TCY23, TQGE23, VB22b, WT22, WYT23, Yan21b, YK21a, ZCWY20, ZDG+21, YLK21, FLK+20]. **phase-change** [RSD20, SRT+20]. **phase-field** [CZY20, FDPT23, KNJ+23, TCY23, WYT23, YK21a, ZCWY20, ZDG+21]. **Phase-I** [YLK21]. **phase-space** [NBB+21, TCSA21]. **phases** [AMP+21, FLW+23, KvdW20]. **PhasicFlow** [Nor23]. **phenomena** [MP21]. **phenomenology** [BBH+23]. **phonon** [HYL+22, LACL24, LFL+24, MMP+24, SHS22, SLIC24, WZZ+23, YHY+21, ZPL+21]. **phononic** [WXZH24]. **phonons** [PPR+21]. **photo** [RHW+21, RBWD+24]. **photo-excited** [RHW+21, RBWD+24]. **photoelectric** [WSK+22]. **photoelectrochemical** [BMI23]. **photoelectron** [BFMA+24, Jab22a, TB20]. **photoemission** [BYL+21, RMFB23]. **photoinjector** [NCF+23]. **Photoionization**

[BFMA+24, HBM+24, TCSD24]. **photoluminescence** [BMR+24a]. **Photon** [Kal20, AAD+24, JWW+23, Kan23, KMS20a, LHWX24, OV23]. **photonic** [DNG+20, KR23, MSH22, SLL+24, WZZS21]. **photons** [MBG+20]. **Phys** [AAT+20, Ano20c, FAL21, MKPW22, MSHP20, Och23a, SJY20, YNV23, ZYX22]. **Physalis** [WS20]. **PHYSBO** [MTY+22]. **physical** [AM21b, JYL+23, KKSV24, WAN+22, YFL22, YKK23b]. **phYsicist** [UMA21]. **Physics** [ACD+22, LY22, RRC+24, AG21, AGJ+23, ABK+22, BLN+21, BC22, CB23, CGG21, DR21, EBNS22, FXZT21, FTG23, FRN+23, GDJG23, GFD+24, Kal20, KPR+24, Koz23, LLC+23, LP24, LFZ20, PAM24, PBC+24, RGS+21, RSPJ21, SRC21, SDP24, SE24, SHB+20, SZ24a, SSD+22, SCT21, TV24, TW21b, VEHCM21, WBF+24, WLL22, WAET22, XLL+22, XPF+24, XHY+24, ZRZ+21, ZDLS21]. **physics-based** [SDP24, WAET22]. **Physics-Informed** [LY22, RRC+24, SE24, WBF+24]. **physiologically** [ZHZ+23]. **physiologically-significant** [ZHZ+23]. **PIC** [Gon22, LOT+20, MT23, MBE+21, NDFL24, WXX24, YC20]. **PIC-MCC** [WXX24]. **picFoam** [KG21]. **PICLS** [SBB+24]. **pICNIK** [RHLTG+22]. **PIGE** [MMC+22]. **pikoe** [OYC24]. **Pilgrim** [FCTFR20]. **pilot** [OIA+20]. **pin** [Zho23]. **pin-by-pin** [Zho23]. **Pineline** [BCCM+24]. **pipe** [XLL+22]. **pipelined** [PP21]. **pipelines** [WAK22, WKJB23]. **Pitaevskii** [BKRG22, CR20, CCW20, CWJ21, GTA21, KRG21, KMR22, KPL+21, YSMBA23]. **PittPack** [HXS20]. **PIV** [NT24]. **pKa** [SOH+23]. **pkgPENGEOM** [ASPDL+21]. **planar** [ZL20]. **Planck** [ZLL+24, ZX23, DTC20, KSJ+22, TCSA21, TKC+21]. **plane** [BR20a, FASD20, FWL+24a, HM24, JZW+22, MSHP02, MSHP20, YJLW21]. **plane-wave** [FWL+24a, JZW+22, MSHP02, MSHP20]. **plasma** [ARLDG24, BYWW23, BGW+22, Bel24, BL21, CTZW23, DIK+23, DML23, DKM+24, GUW+22, HA23, KT23, LAD+21, LLT+23, LLQ+23, LSW+20, MMP20, MRH+23, PG23, RSHS24, RdSH+24, SMC+22, SKYQ21, SSD+22, TKS22, Ume22, WRM+24, sXBkB+22, YGSW21, ZDSS23, ZGW20, ZSqXY21]. **plasma-based** [LAD+21]. **plasma-material** [MRH+23, YGSW21]. **plasma-neutral** [TKS22]. **plasmas** [BJL+24, BTK24, DFP+20, JDD+21, KOF21, MXH+24, MMYU22, SMA24, VV21, WLF+23, YC20, YKY+22, ZLL+24]. **plasmonic** [MZV23]. **plasticity** [EGLK20, YML+24]. **Plateau** [LY24a]. **platform** [BBV23, BLN+21, DBBP23, MLZ+23, OSK+21, PMA+21, SJY18, SJY20, ZWC+20]. **platforms** [BB24b, CCM20, SCF20, YJLW21]. **plethora** [FR20]. **PLQ** [BMR+24a]. **PLQ-sim** [BMR+24a]. **plugin** [PGS+24]. **PLUTO** [MHP23]. **PML** [XFH+22, ZZZ+20]. **pMuTT** [LWV20]. **Poincaré** [SRML20]. **point** [Ano20c, AM21a, CFBRE24, CLEPF23, CLEP24, DIAA21, FH22, Ham20b, KK16, LG21b, LC24, SSH+23, VZ20]. **point-group** [CFBRE24]. **PointGroupNRG** [CFBRE24]. **Pointing** [PLT+23]. **points** [BBA+20]. **Poisson** [BBA+20, CLVV22, DCZ23, HXS20, LSW+20, SLZ+24, SBB+24, TS23, YSI+24, YKY+22, YJ24, ZX23]. **Pol** [BDdM20]. **POLALMM** [SFBG20]. **polarimeter** [CV24]. **polarizabilities** [SFBG20]. **polarizability**

[Kut20]. **polarization** [MOV21]. **polarizations** [NTO24]. **Polarized** [SY20, BKS24b, BAB+20]. **polaron** [SZ23]. **Pole** [KHKL24, AS22]. **Pole-fitting** [KHKL24]. **polyamide** [ZBS+23]. **polyatomic** [LHZ20]. **polyatomics** [MPZB+24]. **polygonal** [SVSC20]. **polyhedron** [Nis22]. **PolyHoop** [VRI24]. **polylogarithms** [Ber24, NSU20]. **polymer** [HT24, SJ20, VvBTH20, ZBS+23]. **Polymers** [HPP23, ECS23, LVMGF+23, NBC+24]. **polynomial** [BND22, CCK23, GDB10, LMWW24a, LYC20, LP24]. **polynomials** [PWC24]. **Polyrate** [MPZB+24]. **polytope** [LH24]. **PolyWeight** [NBC+24]. **ponderomotive** [BGW+22]. **pools** [KJL+23]. **POP** [ZWC22]. **population** [HFP21, RCS21]. **pore** [KAG24, OSK+21]. **poromechanical** [CCC20]. **porous** [OSK+21, SFS22, YCCW23, ŻTR+22]. **porousMultiphaseFoam** [HRG+22]. **port** [BLM+22]. **portability** [DRB22]. **Portable** [Dür23, BB24a, DIKSN24, DBH+22, KDIN+23, MDP22, RDC+20, SRE+24, WRM+24, YSX+20, YML+24]. **Portobello** [AMK24]. **posed** [ZZ24]. **posedness** [SWZ23]. **position** [PMS+20a]. **positive** [LS21a, SJP21a]. **positivity** [PGYF21, XDF20]. **positivity-preserving** [PGYF21]. **positron** [Dry21, HMYH22, HA23, HSO+22, HBM+24, YZW22]. **positrons** [MBG+20, SJP21a]. **possible** [BBA+20]. **Post** [AM21a, CEC+24, Ham20b, HCAH+24, LR22, MPSK21, WGGC22]. **Post-processing** [AM21a, CEC+24, Ham20b, HTH+20, HCAH+24, LR22, WGGC22]. **post-processor** [MPSK21]. **Potential** [BBB20, LWC+21, NRK+21, BDA+20, CCG21, DSW+23, DBdFdSR21, FMBD22, GCK21, LKP24, NA20, PBK21, RV20, RV21, SKS24, SVJ+24, SSPF24, Tan23, TNL+22, VZ20, Xav22, ZWC+20, ZHI23]. **potential-based** [FMBD22]. **potentials** [AB21, BCGT24, CWG+21, CT23, Dio23, HAA+20, KWK+21, Kar23a, LG21b, MPN+21, SRK+24, WGG20, WAET22]. **PotLib** [SVJ+24]. **Potts** [KW23]. **power** [SKS24, ZZ21a]. **powered** [SGY24]. **powers** [SA23]. **PPR** [RdSH+24]. **Practical** [AKL+21, LACL24, KSIL22]. **pre** [HTH+20, YZZ+23]. **pre-processing** [YZZ+23]. **pre/post** [HTH+20]. **pre/post-processing** [HTH+20]. **precise** [MPSK21]. **Precision** [BHH+20, DS20, KAB+21, KGT22]. **preconditioners** [YYY22]. **preconditioning** [LJH+23]. **predict** [KLD+21]. **Predicting** [Di 22, ST23b, CW22, LDGN24, RHW+21, ZHS+20]. **prediction** [ZZ21b, ZZC20]. **predictions** [BCCM+24, ECS23]. **predictive** [ZZ21a]. **preliminary** [WZK+24]. **preparation** [GAJK23]. **presence** [AB21, THH21]. **present** [Sjö20]. **preserving** [CWJ21, GGCW24, HA21, LW24, PGYF21, SJP+21b, XDF20, XQ21, ZYXC24]. **pressure** [BTK24, CS22a, JĎD+21, NJSY22, NLS24, UJ21, XZLX20]. **pretrained** [ZLY24]. **primitive** [Sva24]. **principal** [EGKH24, LS23, Yev21]. **principle** [Jia20]. **Principles** [NI22, AM21a, BCTS22, Dan24, KvdW20, LLS+21, LLZ+22, MBTB21, MPN+21, Och23a, Och23b, PB23, SDL+21, TAE+21, YI22, YJLW21].

**printing** [JLW24]. **probabilities** [DRSZ23]. **Probability** [PYT+24, BKS24a, PLT+23]. **Probability-conserved** [PYT+24]. **probe** [AUO+22, AES21, YMCF23]. **problem** [Ano20c, CdBMdAS+21, ELSV24, KK16, LLH+21b, SSB+23]. **problems** [AG21, ACS+22, ATC+23, BKP22, BSK+22, BDR+20, CJZ21, DNG+20, FYW23, HAM+20a, JRG21, JM24, KKPC23, LYZL24, LF20, MM22, PGYF21, PPKK21, RCB+20, Scr22a, SGY24, SLC+22, TGS+20, VPS23, VHBK21, VTB+21, WWZ+23, WHSK24, YYY22, ZJ23]. **procedure** [CEC+24, KM23]. **Process** [RBV+22, GAJK23, HA23]. **processes** [CF21, DAA+24, For22, GPD+22, HMSV23, HQRR20, KKSV24, KMS20a, MBG+20, MT23, RCB21, SC22, WBvdH20, ZHM+24]. **Processing** [AGH21, AM21a, CEC+24, DC22, Ham20b, HTH+20, HCAH+24, KvH21, LR22, RdSH+24, SPTPR21, WGGC22, WICA22, WKJB23, YZZ+23]. **processor** [MPSK21, OLNG21]. **processor-based** [OLNG21]. **Procrustes** [MRT+22]. **produced** [MXH+24]. **product** [CCK23, GDB10, SKM+21, TWW22, XFGS24, YT22]. **Production** [AJW+21, AZH+24, BKBL22, GBJ+21, JWW+23, KOT23, YZW22]. **Professor** [Haz23]. **profiling** [Dry21, MMC+22]. **Program** [AJW+21, BBA+20, Dio23, Efr20, AKK+24, ADW+23, BOSM24, BDP+21, BN20, BN23, BYL+21, BKBL22, Cas24, CGZ+20, CGV+22, DDM20, FO20, FO21, Gai20, GTMB21, GM20, GJJN23, GFD+24, GSV23, Hor23b, Hor24, HHMH+22, HHT+24, KKM+20, Koł22, KM20, KMS20b, LGBJ20, LZP+24, LQ21, LQGL21, MBJB24, MSN+22, MONW21, MPZB+24, MZ22, NBC+24, NAZ+22, OYC24, PBK21, Roh22, RUV20, SLP+22, SMO+20a, SFBG20, SLZG20, SMB20, SLL+24, SZT24, WGG20, WLZ+24, WAYL23, fWL24b, Xav22, XWYQ21, YLLW24, YLH+20, ZLLM23, ZXT22, ZBS+23, ZXT23, ZJS+20, ZZ21b, DBdFdSR21]. **programmed** [SKC21, SC22]. **programming** [EVMP20, ENK24, FSMM24, FLW+23, Par21]. **programs** [BKRG22, FN23, KSDH23, KRG21, SZ24a, YSMBA23]. **project** [GAA+20, BMREC21]. **projected** [ATRD21]. **projection** [ST23a]. **prolate** [SSB+23]. **Prompt** [PYT+24]. **propagate** [SLP+22]. **propagation** [AAD+24, ASW22, Koz23, MHÅ21, MR22, MS24, Mau20, MD22, MZL+21, NRG24]. **propagator** [LG21a, LG21b, Nog21a, PBC+24, RUV20]. **proper** [RYS+24, TGS+20]. **Properties** [LY22, LPSK20, BSS+23, BBB20, BTW20, BRHT21, DCRF23, DIAA21, DSQ23, EL24, ENK24, FO21, FGCN+21, FLK+20, GLN23, KKPC23, KLM+22, LBM+23, MMP+24, Mar22, MPSK21, NAZ+21, NAZ+22, SMO+20a, SLK23, SP23, SLDF+21, TR22, VMRFC23, WGGC22, WV22, YNV22, YNV23, YKYK23, ZLLM23]. **property** [AUEO24, MM23, MMM20, MYKC23, SJWL22]. **Prophecy4f** [DDM20]. **PROPOSAL** [AAD+24]. **protein** [BBA+20, HL21, OCK+24, Ryd20, ZJS+20]. **Proteins** [HPP23, MBCC23]. **Protocol** [OSLC21, KMN21]. **proton** [Ada22, GBJ+21, OYC24]. **proton-proton** [GBJ+21]. **Prototyping** [TPS+24]. **provider** [FQRR22, HQRR20]. **providing** [AIZ23]. **pseudo**

[CHA21, CCW20, FRN21, LBRW22, MBCC23, ZYXC24, ZLS+22]. **pseudo-deterministic** [CHA21]. **pseudo-improper-dihedral** [MBCC23]. **pseudo-spectral** [CCW20, FRN21, LBRW22, ZYXC24, ZLS+22]. **PseudoDojo** [TIG+24]. **pseudopotentials** [BTW20, NVC20, SPMS23, TIG+24]. **pseudospectral** [RC23]. **PSGen** [Koł23]. **PSTD** [LKP21]. **PSTD-FDTD** [LKP21]. **PSTGF** [FMCB+20]. **public** [AAHJ20, SLP+22]. **pulse** [CML+24, MD22, WMM+24]. **pulsed** [Nie22a]. **PULSEE** [CNB+23]. **pulses** [BAB+20, Tan23]. **PUMAS** [Nie22b]. **pure** [SSD+22]. **pure-Python** [SSD+22]. **purpose** [ASPDL+21, ABF+23b, DCRF23, DC22, HT20, Koł22, LVMGF+23, Wor20, ZWC22]. **pusher** [DML23, GH21, ZZ24]. **PV** [MFS+22]. **PWDFT.jl** [FASD20]. **PXLink** [ZBS+23]. **py** [BFT20, Kür23, PP23, BYWW23, LEE+24, BGHC23, MD22]. **Py-EFIT** [BYWW23]. **py-fmas** [MD22]. **PY-Nodes** [PP23]. **pyAPEP** [GAJK23]. **PYATB** [JPJ+23]. **PyBEST** [BLN+21, BBC+24]. **PyCharge** [FH22]. **PyCSP** [Gal22]. **pyDSM** [ECS23]. **pyerrors** [JKKN23]. **PyFitit** [MGG+20]. **PyFocus** [CMS22]. **PyFrac** [ZL20]. **Pyg4ometry** [WAN+22]. **pyGDM** [WMA+22]. **pyhf** [AKW21]. **pyHMA** [MPSK21]. **PyHoLo** [MZD+20]. **PyLCP** [EBNS22]. **PyLlama** [BVV22]. **pyMCD** [LKK23]. **PyMikor** [Bar22b]. **PyOECP** [YMCF23]. **PyOpenCL** [MR22]. **PyPhotonics** [TR22]. **PyProcar** [HTH+20, LTT+24]. **PyR** [SS21a]. **Pyrough** [IGL+24]. **pySecDec** [HJJ+22, HJK+24]. **PySPOD** [RYS+24]. **PyStructureFactor** [SZNW23]. **pyTDGL** [Hor23a]. **PYTHIA** [KL22, Sjö20]. **Python** [AZH+24, AGMFGE23, ABGD+20, AYI+24, AM21a, AS24b, BYWW23, BVV22, Bie21, BGHC23, BLN+21, BYL+21, CZA+23, CMS22, CFPS23, DCRF23, DBdFdSR21, EBNS22, ECS23, FH22, FPSZ21, Gal22, GHKW22, HS22, HHVB21, HTH+20, HQF+20, Hor23a, JKST22, JPJ+23, JKKN23, Kar23a, KH23, KKB+24, KVSC21, LEE+24, LKK23, LN23, LDW+21, LWV20, MD22, MRT+22, NT24, PP23, Pot24, RHLTG+22, RGS+21, RSPJ21, SLP+22, Sch21, SLB+23, SP23, SSD+22, SLDF+21, SZNW23, TR22, TQGE23, TMH+23, VCF22, WAN+22, WZZ+23, WBK+24, WAK22, WMA+22, WV22, ZCS+24]. **Python-based** [AZH+24, ABGD+20, KKB+24, LEE+24, SLB+23]. **Pythonic** [BLN+21]. **PyTorch** [JS24]. **pywidgets** [VMRFC23]. **PyWolf** [MR22, MS24]. **PyXtal** [FPSZ21].

**Q** [ZWC22]. **Q-POP-Thermo** [ZWC22]. **QBMM** [LMHL20]. **QCD** [Dür23, EVFRHR23, FFLR20, FKK+21, HLM22, IKM+23, KM20, KMS20b, Kub24, LMWW24b, MBC+24, WSRO24]. **QCT** [Dju20]. **QDD** [DVC+22]. **QDT** [KMBP24]. **QED** [BKG+23, MT23]. **QEHeat** [MBTB21]. **qeirreps** [MONW21]. **QERaman** [HHT+24]. **QISG** [BPMMP24]. **QMeS** [PSW23]. **QMeS-Derivation** [PSW23]. **QMMM** [LZP+24]. **qocttools** [Cas24]. **QOptCraft** [AGMFGE23]. **QPAD** [LAD+21]. **QPC** [ZLMH23]. **QPC-TDSE** [ZLMH23]. **Qprop** [TB20]. **QS** [UYS22]. **QSGS** [YLLW24]. **QSW_MPI** [MW21]. **QTRAJ** [OEI+22]. **quadratic** [Par21]. **Quadrature**

[LP24, GDS+21, GCWZ20, HFP21, LC24, MM23]. **quadrature-based** [HFP21]. **quadratures** [ST23a]. **Quantics** [Wor20]. **quantification** [KMG+20, TO21]. **quantitative** [BDP+21, Jab22a, MMC+22, MGG+20]. **quantities** [KKSV24]. **Quantum** [AMK24, ASW20, AYWKL24, DHE+24, HTN21, KPL+21, KK20, MONW21, MYMK+21, UYS22, dBBVA20, vRCM21, AGMFGE23, ADW+23, ACS+22, BPMMP24, BTG22, BLG24, CLY22, CNB+23, CPL21, Cas24, CDD22, COW24, DH22, Dio23, GJA21, GF23, GLB+21, HAM+20a, Hua23, KSDH23, KMBP24, LZP+24, MW21, MAJ20, MOY+22, Nog21b, OV23, PM21, PC21, Pot24, RMM21, RBWD+24, RRM+23, SLLA22, SDL+21, SZ23, SNG20, TMH+23, UD24, VCHH23, WWDM20, WWJ+22, Wor20, WZC+24, WHSG24, XFGS24, YJLW21, ZCS+24, DVC+22, HTN21, HHT+24]. **quantumfdtd** [DSSW22]. **Quark** [AJW+21, IKM+23, JWW+23, Dju20]. **quarkonium** [OEI+22, YZW22]. **Quasi** [KW23, LY24b, OCR+22, BR20b, DBH+22, LAD+21, MCP23, YZHL22]. **Quasi-exact** [KW23]. **Quasi-Helmholtz** [OCR+22]. **Quasi-optimal** [LY24b]. **quasi-static** [BR20b, DBH+22, LAD+21]. **quasi-transport** [YZHL22]. **quasi-two** [MCP23]. **quasicrystals** [Yan24a]. **quasiharmonic** [LDW+21]. **quasiparticle** [BN20, BND22, BN23, SLZG20]. **quasistationary** [CF21]. **QuDPy** [SLB+23]. **quench** [KCJX24]. **quenching** [BMR+24a]. **Questaal** [PAL+20]. **QuGIT** [BTG22]. **quick** [SCR+22b]. **quickly** [FO20, FO21, ZYL+23]. **QuOCS** [RRM+23]. **qvasp** [YTC+20].

**Rabi** [MBA21, RVM+21]. **Rabi-coupled** [MBA21, RVM+21]. **Racah** [DLD+21]. **radial** [BA24, LGDF20, LM22, NTO24, SLE+22]. **radiation** [ASPDL+21, Arn20, COJ+22, CZX+21, DRM20, DFP+20, GAGO21, LLH21a, LMMP23, MXH+24, NS20, Nie20, OBGA24, PLT+23, PSMRS+23, RDC+20, Sij23, WAN+22]. **radiations** [Roh22]. **radiative** [BKG+23, FXQS21, KSIL22, SJWL22]. **radio** [KM23, MMP20, PSMRS+23]. **radio-frequency** [KM23, MMP20]. **radioactive** [PMS+20a]. **RadLib** [SJWL22]. **Raman** [HHT+24, KSG22]. **random** [AYI+24, BND22, KW23, TRB+20a, RBV+22]. **random-field** [KW23]. **randomized** [LMHUR23]. **randomly** [LDGN24, YYZ+22]. **range** [GSBN22, HG22, VXT+23]. **rank** [CE22, CL22a, VPS23]. **RANS** [VLS22]. **RANSBox** [MOMO24]. **Raphson** [AG21]. **Rapid** [NSU20, BMI23, MOA24]. **rapidly** [TPCT22]. **rare** [DRSZ23, SJP+21b, SKC21]. **rare-event** [SJP+21b]. **rarefied** [CAWK22, MEC+24]. **rarefiedMultiphaseFoam** [CAWK22]. **Rate** [MDDI21, FCTFR20, KFC+20, SC22]. **rates** [HYL+22, LGBJ20, MES+24, MPZB+24, SZNW23]. **rational** [AKL+21, DEdM24, KL20, KKL21]. **rationalization** [BWW20]. **RationalizeRoots** [BWW20]. **ray** [CML+24, FXQS21, GSL+23, Hua24, Jab22a, MKPW21, MKPW22, Mau20, SHS22, SPF21, SBG23, WWM+22, WKJB23, sXBkB+22]. **ray-tracing** [FXQS21, SHS22]. **Rayleigh** [LY24a]. **rays** [MNS+24]. **RC** [BKG+23].

**RDM** [PFG22]. **Re** [YC20, OS24]. **re-orientation** [OS24]. **Re-splitting** [YC20]. **reacting** [Gal22, MLZ+23, NJSY22, RCX24, TPK+21]. **reaction** [AYB24, BB24b, FLW+23, GMZ+20, MPZB+24, PTH24, XDF20]. **reaction-diffusion** [BB24b]. **reaction-diffusion-wave** [GMZ+20]. **reactions** [AHM+23, OYC24, SW23]. **reactive** [AS22, ADW+23, CNS22, GP22, MPH+24, MRG22]. **reactive-flow** [CNS22]. **reactivities** [Xie23]. **reactor** [AG23, LLC+23, SBZ23, WLL22, XLL+22, Zho23]. **reactor-scale** [SBZ23]. **reactors** [TBAR21]. **ready** [SMB20]. **Real** [MVK+24, NJSY22, WKJB23, BW23, DVC+22, DHE+24, HLMB24, LKP24, MSHP02, MSHP20, OSE+20, SLZY21, SCF20]. **Real-fluid** [NJSY22]. **real-space** [BW23, DVC+22, LKP24, SLZY21]. **Real-Time** [MVK+24, WKJB23, DVC+22, DHE+24, HLMB24, SCF20]. **realistic** [CMS22, KGN+21, YCC22]. **realizable** [PLF20]. **Receiver** [CTPS22]. **reciprocity** [WXZH24]. **Reconnoitering** [LSZ23]. **Reconstructing** [KL20, YYZ+22]. **Reconstruction** [DBV+24, OBK+20, AAB+21, AWV22, ADdM20, ABF+23b, BYWW23, BCSS24, GOS+22, LNP+24, PMS+20a, RCW+20, SWZ23, SS21b, TGGC23, TRN+24, TWW22, VLS22, YLK21, BBV+22]. **record** [BIK+21]. **recording** [RMR+22]. **recreation** [CEC+24]. **rectangular** [MSH22]. **recurrences** [SRML20]. **recursive** [EGKH24, XFH+22]. **redistribution** [RCS21, YGSW21]. **reduced** [BGR23, HCAH+24, PPR+21, YYH21, ZSqXY21]. **reduced-space** [YYH21]. **Reducing** [GJA21, LWS+23]. **reduction** [CHA21, KLMU21, PLT+23, RUV20, SZ24b, VHBK21, SC20]. **reductions** [GHL23]. **redundant** [CZB+23]. **refined** [LW24]. **Refinement** [OSLC21, ASC+24, FAL20, FAL21, PG23]. **reflection** [Arn20, CGV+22, Dan24, HMYH22, HSO+22]. **reflective** [KYH24]. **reformulated** [LSW+20]. **reformulations** [HWZ24]. **refractive** [BMR+24b]. **Regge** [AS22]. **regime** [BMT23]. **regimes** [LSW+20, MMFdL21, YZ20b]. **region** [HJGL22, LJH+23, Yan21a]. **regions** [ADH+20, ABFP24, HJJ+22]. **Regression** [RBV+22, LM22]. **regressors** [KHKL24]. **regularization** [SKS24]. **regularized** [KRE22]. **reinforced** [SRK+24]. **reinforcement** [KKY24]. **related** [KLM+22, MMP+24, WW21, WGGC22]. **relation** [LLY+22, LB24, MEC+24]. **relations** [WBM+24]. **relationships** [ÖAÖ24]. **Relativistic** [KKLZ23b, SLE+22, Bag22, BN20, BN23, BAB+20, DTC20, DSSW22, DH20, GK21, KKLZ23a, Kul20, LMX+21, LMMP23, MGC+23, MHP23, Nie20, UZB22, YZL+23, YNMR24, YKY+22, ZZ24]. **relativity** [CFPS23, Tor20]. **Relaxation** [PGS+24, NNMJ22]. **relaxed** [ZPZH20]. **release** [FGCN+21]. **relevant** [YGSW21]. **reliability** [AM21b, LTT+24]. **reliable** [LBM+23, ZWC+20]. **ReMKiT1D** [MPH+24]. **removal** [GBH20, Hor24]. **ReneSANCe** [BDK+23, SY20]. **ReneSANCe-v1.0.0** [SY20]. **ReneSANCe-v1.3.0** [BDK+23]. **Renormalisation**

[LS21b, DH22, IPSW24]. **renormalization** [CFBRE24, CPL21, JS24, YS22]. **reordering** [Ume22]. **replica** [RCS21, XLKX21, YLIO22]. **replica-permutation** [YLIO22]. **Representation** [BFL+22, FKS20, RBV+22, CLS+22a, Jab24, KCS22, SXYD24]. **representations** [ABFP24, GWPW21, Gon22, IMB+22, LCZ+21, MONW21]. **representing** [MM23, RBV+22]. **Reproducibility** [RDV+20]. **repulsion** [CXCZ23]. **resampling** [MBE+21]. **research** [AMA+20, Di 22, DP21]. **resistive** [ZJM+21]. **resolution** [EGLK20, LU21, SLL22, ZRZ+21]. **Resolved** [WS20, CHY+24, LR22]. **resolving** [GSL24, GB22]. **Resonance** [BMR+23, AS22, CNB+23, FYM+22, HRU22, HHT+24, WXX24]. **resonances** [GTMB21]. **resonators** [Hoh24, JYL+23, WAYL23]. **RESPACK** [KMY+23, NYN+21]. **response** [ACD+22, BM22, BND22, SLZY21]. **responses** [SLB+23]. **REST** [ACD+22]. **REST-for-Physics** [ACD+22]. **restricted** [YM21]. **restructuring** [TDR+20]. **results** [KOT23]. **resummation** [ABB+22]. **Rethinking** [SWZ23]. **reticulated** [SFKC22]. **retQSS** [SFKC22]. **reuse** [CCC20]. **reverse** [BRAC23, HT24]. **reversible** [KP23]. **revertible** [Nie23]. **revised** [SLL+24, ZZC20]. **Revisiting** [YZL+23]. **revolution** [NTO24]. **revolutions** [GdSPC22]. **REvolver** [HLM22]. **reweighting** [Kub24, SJP+21b]. **Reynolds** [MD21, MOMO24]. **Reynolds-averaged** [MOMO24]. **RF** [BGW+22, SS22]. **RF-transpond** [BGW+22]. **RGB** [GOS+22]. **RGE** [DH22]. **RHDLPP** [MXH+24]. **RHEED** [DZZ21, Dan23, HMYH22]. **rheology** [ECS23]. **rheometer** [SPTPR21]. **RHMC** [Kub24]. **RI** [BMR+24b]. **RI-Calc** [BMR+24b]. **rich** [ABK+22, EES24]. **RichardsFoam** [Org22]. **RichardsFoam3** [Org22]. **Riemann** [CK20b, LMMP23]. **Riemann-Theta** [CK20b]. **Rigid** [OAP+24, SXYD24]. **Rigidity** [HS22]. **rigidPy** [HS22]. **rigorous** [MZL+21]. **RMC** [LHWX24]. **RMT** [BAB+20]. **Robust** [AACE+21, SBP20, IUJ21]. **ROC2.wl** [ABFP24]. **rocking** [DZZ21]. **rocks** [XBL+20]. **Rode** [MMC+21]. **rogue** [WXY20]. **ROOT** [ACD+22, TPS+24]. **ROOT-based** [ACD+22, TPS+24]. **roots** [BWW20]. **Rosenbluth** [KSJ+22]. **RoseNNa** [BB24a]. **rotating** [BJL+24, GTA21, MBA21, TPCT22]. **rotation** [CCW20, CWJ21, LZ21, ZYXC24]. **rotation-two-component** [ZYXC24]. **rotational** [BGHC23, GTMB21, WGS+22, dVAR+24]. **rotational-vibrational** [GTMB21]. **rough** [IGL+24, YYZ+22]. **routine** [MN21]. **routines** [HW22, KOT23, SSH+23]. **RPCs** [DBM+24]. **RS** [RBV+22]. **RS-HDMR-GPR** [RBV+22]. **RTGW2020** [PWD22]. **rules** [CS22b, DPR+20, DRR+24, Nog21b, ZHS+20]. **runaway** [DTC20, HEF21]. **Runge** [KBSL22, KFC+20]. **running** [HLM22, WLZ+24]. **Rutherford** [LGK+22]. **Rydberg** [MMV+24]. **RydIQule** [MMV+24].

**S** [CCK23, VMRFC23, LW24, MZV23, YK21a]. **S-FDTD** [LW24]. **S-SAV** [YK21a]. **S3D** [MEH21]. **SAFARI** [JS22]. **safety** [KJL+23]. **Salpeter**

[ZAW+21]. **samples** [IGL+24, ZDLS21]. **Sampling** [CK20b, KvH21, RBV+22, AM21b, Gon22, HSMR+24, SJP+21b, TCcN23, XLKX21]. **SANCphot** [BKS24b]. **SANTA** [KJL+23]. **São** [CCG21]. **Sar** [ST23b]. **Sarkas** [SSD+22]. **SAT** [MKHT20]. **satellite** [GG24]. **satellites** [SCMP+22, SCR+22b]. **SATLAS2** [GvdBdGN24]. **saturated** [HRG+22]. **saturated/unsaturated** [HRG+22]. **saturation** [UYS22]. **SAV** [GZW20, WYT23, YK21a]. **Savart** [SSH+23]. **SBETHE** [SA23]. **scalability** [BGR23]. **Scalable** [LYC20, PPKK21, DTC20, DC22, HAA+20, KKPC21, MAJ20, OCK+24, OLNG21, RLW+24, YCC22]. **scalar** [ABH+23, BBH+23, CS22b, FFTV23, MCMS24, WYT23, YK21a]. **scalar-tensor** [MCMS24]. **scale** [BSC+21, BC22, BDR+20, CB23, CGSO20, CTZW23, EVFRHR23, FJ22, FWL+24a, GSL24, GB22, HXS20, HRG+22, HSA22, KCJX24, KKPC23, KFHR24, LBRW22, LKP21, LZK+23, LG23, LU21, MDR+20, OSK+21, PLT+23, RL21, SBZ23, TPCT22, VTB+21, WA21, YCC22, YJLW21, YGSW21, ZMC23]. **scale-resolving** [GSL24, GB22]. **scale-separated** [TPCT22]. **scaled** [BR20a, YJ24]. **scales** [TAB+22]. **scaling** [BR20a, CXCZ23, RDZ+20, SLZY21, Zeb22]. **scan** [SZ24a]. **scanning** [AUO+22, ZW20]. **scans** [GJ24]. **scatterer** [WZZS21]. **Scattering** [AB21, AZH+24, ADW+23, BFCR24, BDA+20, BTW20, BKG+23, GTMB21, GJJN23, Hal21, HYL+22, HJK+24, HBM+24, Jab22b, Jab24, JS22, KC21, KRL+24, MBJB24, PBK21, RCB21, Roh22, SJP21a, SMB20, YYZ+22]. **SCELib4.0** [SMO+20a]. **SCELT** [MG22]. **scheme** [ADdM20, CZY20, FN21, Gai20, GDS+21, GMZ+20, Kul20, KBSH20, LF24, LSW+20, LHC20, LHG24, LLH+21b, MM23, MA24, MRN20, PLF20, PGYF21, Sij23, Tan23, Tan24, THH21, WJB21, WDMZ24, XZLX20, Yan21b, YZ20b, ZCWY20, ZWP+22, ZPL+24, KWZ24]. **schemes** [CWJ21, GZW20, KBSL22, LM21a, LW24, SP20, SBZ23, ZX23]. **Schrieffer** [PTD20]. **Schrödinger** [BV21, BCGT24, BAB+20, DSSW22, GTA21, GSLS20, GGCW24, Koz23, LY24b, Pöt20, RS20, SGS23, SP20, SLZ+24, Scr22a, SCL22, WXY20]. **Schrödinger-like** [Scr22a]. **Schrödinger-type** [Pöt20]. **science** [DBBP23, HJM+20, XLG+23]. **sciences** [BMREC21]. **scientific** [PMA+21, PP21, WICA22]. **scintillating** [AAB+21]. **Scott** [Haz23, JLW24]. **scrape** [MPH+24, MAMK21]. **scrape-off** [MPH+24, MAMK21]. **scripts** [HBM+24]. **SCTBEM** [YJ24]. **SDE** [MNS+24]. **sdfibm** [Zha20]. **sDMD** [ZJS+20]. **Seamless** [ANU21]. **search** [BFD22, GUAD22, LS23, VZ20, YK21b, ZHS+20]. **searches** [WBK+24]. **searching** [Gai20, LKK23, PP23, XSM22]. **Second** [KSF+22, AIZ23, DEdM24, KBB21, KD23, LM21a, PLF20, SKEZ24a, WJB21, Yan21b, ZCWY20, ZZZ+20]. **second-degree** [WJB21]. **second-harmonic** [SKEZ24a]. **Second-order** [KSF+22, KBB21, KD23, LM21a, PLF20, Yan21b, ZZZ+20]. **secondary** [KOT23, NG21]. **section** [Jab24, PYT+24, SY20, ST23b, WLL22]. **sections** [AS22, AYB24, BFMA+24, Hor24, SLLA22]. **sector** [BHH+20, BP21].

**sectors** [KKM+20, BMM21]. **seeding** [AAB+21]. **seeker** [NA20]. **segmented** [KTF22]. **seismic** [RRC+24, Yan24b]. **SeismicNet** [RRC+24]. **selection** [GSBN22, WSRO24, ZLV23]. **selective** [UJ21]. **Self** [Kut20, LDGN24, LM20, vRCM21, BN20, BN23, FH22, WLF+24, WGS+22]. **self-avoiding** [WGS+22]. **Self-Consistent** [vRCM21, Kut20, BN20, BN23, FH22]. **Self-force** [LM20]. **self-interstitial** [WLF+24]. **Self-optimization** [LDGN24]. **Semi** [Ein20, Mau20, BTK24, BAB+20, BKG+23, HPAW21, KBB21, KVSC21, MMCC+22, PLT+23, RRC+24, SN23, SRE+24, TKS22, MZV23]. **semi-analytic** [PLT+23]. **Semi-analytical** [Mau20, MZV23]. **semi-bounded** [HPAW21]. **semi-empirical** [KVSC21, MMCC+22]. **semi-implicit** [BTK24, KBB21, SN23, TKS22]. **semi-inclusive** [BKG+23]. **semi-infinite** [RRC+24]. **Semi-Lagrangian** [Ein20, SRE+24]. **semi-relativistic** [BAB+20]. **semiclassical** [GLB+21]. **semiconductor** [BMI23]. **semiconductor-liquid** [BMI23]. **semiconductors** [AM21a, DIAA21, HM24]. **semiflexible** [WGS+22]. **semimetals** [SLBR22]. **semitransparent** [FXQS21]. **sensitivity** [FA21, HSO+22, PCS+23, SMC+22]. **sensors** [MMV+24]. **separated** [TPCT22]. **separations** [GDK21]. **September** [Ano20y, Ano21x, Ano22x, Ano23x, Ano24r]. **Seq** [WYZZ23]. **Seq-SVF** [WYZZ23]. **sequential** [Par21, Yan23]. **serial** [KFHR24]. **Series** [Jab24, ABFP24, ABD+23, EBBB22, Hid21]. **Serpent** [Kal20]. **server** [BMR+23, BMR+24b]. **SESCA** [NG21]. **set** [CNB+23, CS22b, FA20b, FN23, HWAA22, JZW+22, XHY+24, YYH21, YJLW21, YZZ+23]. **SFQEDtoolkit** [MT23]. **Shafranov** [AIZ23, ELSV24, HSB+24, LZ21, SVSC20]. **shallow** [DS22, STA20]. **Sham** [JZW+22, LG23, YT23]. **SHAPE** [ANU21, PCL24, WYHW24, ZTV+24, ANU21]. **shaped** [LNB23]. **shared** [EVMP20, MLT+21, ZWZ+22]. **shared-memory** [EVMP20, MLT+21]. **sharp** [HWAA22]. **sharp-interface** [HWAA22]. **Shaw** [Yan21b]. **shear** [MES+24, SPTPR21]. **Sheared** [FMHH24]. **sheaths** [KM23]. **Shell** [MAJ20]. **ShengBTE** [HYL+22, MPN+21]. **shield** [COJ+22]. **shielding** [CZX+21]. **shift** [GRCT20, PBK21, WSRO24]. **shifted** [HKY+21]. **shifts** [SOH+23]. **shock** [LF24, MDZ24]. **shock-capturing** [LF24]. **shooting** [JM24]. **short** [CML+24, GSBN22, VXT+23]. **short-range** [GSBN22, VXT+23]. **shortcut** [ZHS+20]. **Shortest** [KDHL23]. **SHORYUKEN** [CSW24]. **shot** [TCcN23]. **shot-noise** [TCcN23]. **Shower** [LAC21, BP21, Roh22]. **Showers** [ABF+23b]. **SIDES** [BDA+20]. **SIDIS** [BKG+23]. **SIDIS-RC** [BKG+23]. **SIESTA** [Soz21]. **signal** [ADH+20, ABF+23b, MD22]. **signals** [ET24, JKST22]. **signed** [TGBM22, Zha20]. **significance** [CTPS22]. **significant** [ZHZ+23]. **silver** [SKS24]. **Sim** [BMP+24, BMR+24a, HMYH22]. **sim-trhepd-rheed** [HMYH22]. **Simflowny** [PMA+21]. **similarity** [BBV23, MRT+22]. **Simple** [CF21, GJ24, LXY+21, WXY20, AES21, GFH23, LBM+23, MWJL23, MBC+24, PC21, Sat21, WT22, Xie23, ZZZ+20, ASW20]. **SimpleBounce** [Sat21]. **simplex** [DBV+24, PP23]. **simplification** [ANU21, Gal22, SZ24b].

**simplified** [CLEPF23]. **Simplifier** [LS21b]. **simplifying** [XWYQ21]. **simulate** [BFI+21, DBM+24, GSBN22, LGK+22, MD20b, SHS22, ZWZ+22]. **simulated** [MMFdL21, TRN+24]. **SIMULATeQCD** [MBC+24]. **Simulating** [BLG24, DG20, Gar21, PMSHG23, BMR+24a, BFT20, BM22, MHÅ21, MR22, MP21, PD23, Sch21, SCL22, SJY18, SJY20, TLC+21, TMH+23, XFH+22, ZYML24, ZCS+24]. **Simulation** [CMJC21, CJ21, EMM+23, KHR+23, RMM21, RdSH+24, WXW+21, ABGD+20, ARLDG24, ASPDL+21, AFB+24b, ASC+21, Bak23, BOSM24, BCF+24, BMP+24, BMSP21, BB24b, BKO20, BMT+20, BLM+22, BKS24b, BCD+21, BYL+21, BKBL22, CNB+23, CCM20, CE22, CLZ+21, CSBF23, DML23, DBR24, Ein20, EOR21, FTZ+23, FGCN+21, FN23, FYM+22, GLW+23, GWA+23, GBD+22, GB20, GP22, HT20, HMSV23, HSA22, JS22, JĎD+21, KTF22, Kan23, KF23, KMBP24, KGT22, Kul20, KNJ+23, LBS+23, LKP21, LLT+23, LLC+23, LZK+23, LY24a, LF24, LLL24, LJQ+22, LWC+21, MES+24, MW21, MHK24, MAMK21, MRG22, MDZ24, NS20, NSY+23, Nie20, Nie22a, NRG22, OBC+24, OV23, PMA+21, PK24, PFG22, QCZ23, RLW+24, RSD20, RDH+20, RMCC22, RCB21, RS20, SRT+20, SD24, SRC21, SFKC22, SNP+20, SJ20, SKYQ21, SS22, SLIC24, SPF21]. **simulation** [STRF+20, SWTC23, Tan24, TL20, TAB+22, TCcN23, eSdSBST21, VCHH23, WICA22, WLF+24, WAK22, WLF+23, XBL+20, XHY+24, YCC22, YYC+23, YSX+20, YC20, YR21, ZMC23, ZK20, ZHI23, ZBS+23, ZZ21a, ZYX21, ZYX22, ZJS+20, ZGW20, dSOZ22, SGM+20]. **simulations** [AHP21, AALK20, BL21, BTK24, BCTS22, BR20b, BC22, BGR23, CLY22, CB23, CGSO20, CTZW23, CZTF23, CHY+24, CF21, Cos22, CJD+20, CNS22, Dan23, DTGE21, DWD+24, DAA+24, DKM+24, FN21, FDPT23, FRN+23, FFTV23, FH22, FFLR20, GAJK23, GSL24, Gon22, GB22, GAS+23, GMZ+20, Hal21, Ham20b, HTL+22, HyLF23, HEF21, IGL+24, JGJ20, KPR+24, KWZ24, KCJX24, KBSL22, KSJ+22, KP23, KGN+21, KPL+21, KMG+20, KYH24, LBRW22, LBM+23, LAD+21, LZP+24, LM20, MMM23, MKPW21, MKPW22, MLZ+23, MPS+24, MBH21, MEH21, MVF20, MBE+21, NJSY22, Nor23, OCK+24, OGL+21, OCC23, OBGA24, OSK+21, PCS+20, RSC+22, RCB+20, RSHS24, RdPS24, RL21, SLL22, SJ21, SDXY23, Sij23, SBZ23, SWB+23, TKC+21, TSJ+21, TPK+21, TNL+22, Ume22, VPPQ21, VXT+23, VV21, VGGP+21, VSM+22, VvBTH20, WWM+22, WDMZ24, WA21]. **simulations** [WOP+20, WMA+22, WS20, WWJ+22, Wor20, WRM+24, WS23, YFL22, YJLW21, YTC+20, YWX+23, ZDSS23, ZLL+24, ZSqXY21]. **Simulator** [AACE+21, BSG+21, FCTFR20, HMYH22, HLMB24, MFS+22, SKEZ24b, SGY24, XFGS24, ZTV+24, ZL20]. **simultaneous** [KF23]. **simultaneously** [TQGE23]. **Single** [DFG+23, PAZ+22, BW23, CFLR24, CL20, LG21a, PNL+24, SSPF24, SHRK22, SW23, TWR21, SMO+20a]. **single-file** [LG21a]. **single-grid** [BW23]. **single-instruction** [PNL+24]. **single-ion** [TWR21]. **single-molecule** [PNL+24]. **single-nucleon** [SW23]. **single-phase** [CFLR24]. **Single-step** [PAZ+22]. **Singular** [Gal22, KFHR24, LP24, WT22, BBH+24]. **Singular/GPI** [BBH+24].

**Singular/GPI-Space** [BBH+24]. **SIRF** [OBK+20]. **site** [CXCZ23, ZLV23]. **sites** [HHMH+22]. **six** [SRE+24]. **size** [HFP21, KAG24, PLSB22, WBM+24]. **size-velocity** [HFP21]. **sized** [Che23]. **skew** [LF24]. **skew-symmetric-splitting** [LF24]. **SKMF** [GTE21]. **Sky3D** [ASS+24]. **SkyAx** [RSM21]. **Skyrme** [CLS+22a, MSN+22]. **skyrmion** [IUJ21]. **slabs** [MCP23]. **SLC** [AJW+21]. **slender** [LBS+23]. **SLEPc** [DNG+20]. **SLIMP** [RZY+24]. **slip** [SN23]. **SLJCompact** [BMI23]. **slope** [NLS24]. **slope-dependent** [NLS24]. **Slow** [XQ21, LJQ+22]. **small** [LLC+23, ST23b, WBM+24, ZLMH23]. **small-size** [WBM+24]. **SMATool** [Eku24]. **SmeftFR** [DPR+20, DRR+24]. **Smirnov** [Efr21b]. **SMIwiz** [Yan24b]. **SModelS** [AKW21, ADH+20]. **Smoothed** [AMA+20, JCM20, AYWKL24, FRN21, KP23, LMQ+23, LYZL24, ODR+22, RZH22, ZRZ+21, ZHZG23]. **smoother** [AGJ+23]. **smoothing** [SL22]. **SOD2D** [GSL24]. **Soft** [SPMS23, TNL+22, VRI24, MOA24]. **SOFTSUSY** [AAT+20, AAT+14]. **Software** [BWW20, CTPS22, GBR23, KvdW20, MHÅ21, Nis22, Sha21, AMP+21, AAG+24, AAD+24, ACKB23, ASC+21, BMR+23, BMR+24b, BMT+20, CNB+23, COW24, CSW24, CW22, DvHSdS22, DIKSN24, DKRSR22, EGKH24, FLK+20, GAJK23, GO23, GPM+21, HAM+20a, HGS20, KWK+21, KSG22, KDIN+23, LEE+24, MMP+24, MGG+20, MZL+21, MZD+20, MOMO24, MYM+22, NKP20, PAM24, PRR23, RDH+20, RHW+21, SHB+20, SHS22, SJY18, SJY20, TL20, TO21, VB22a, WV22, WS23, YKSH20, YR21, YMCF23, ZPL+21, ZCS+24, ZLV23, vdHKB+23, vTDGCR21]. **SOL** [MAMK21, YHH+20]. **SOL/divertor** [YHH+20]. **solar** [BMP+24, MFS+22]. **solar-cell** [MFS+22]. **Solid** [PTD20, AMP+21, ONH+20, PB23, RSD20, SRT+20, UO20, WXZH24, XZLX20]. **solid-fluid** [WXZH24]. **solid-liquid** [RSD20, SRT+20]. **solidification** [SYFT23, ZDG+21]. **solids** [BR20b, BFI+21, DSQ23, FXQS21, GBR23, KRL+24, Och23a, Och23b, RDV+20, WGGC22]. **Soliton** [HWZ24]. **solitons** [GMZ+20, ZYXC24]. **solute** [HRG+22]. **Solution** [AIZ23, DvHSdS22, AE23, BBA+20, CKT21, CLEPF23, CLEP24, Flo24, GSLS20, GQ22, LF20, LSS24, MSN+22, MPN+21, MNS+24, OKBM23, PPR+21, QWZ+21, YNMR24, CLEPF22]. **solutions** [AMP+21, Bak23, GF23, LWhK+20, LHTP+24, NI22, SSB+23, SCL22, VFS23, YZ20b]. **solvation** [DCZ23]. **solve** [BKRG22, CLEPF23, DH22, HAM+20a, WGG20]. **Solver** [ASW20, GKIB21, MYMK+21, TCSA21, AFB+24a, ADF+22, BMSP21, BMS+23, BMI23, BBA23, BSC+21, CLS+22a, Cos22, DTC20, DAC+23, DS22, DFP+20, DBV+24, DP21, DdCAG23, EGLK20, FXQS21, FTZ+23, FRN+23, FMBD22, FA21, GTA21, GSL+23, GDJG23, GWA+23, GLPG+23, GHL+22, HPAW21, HXS20, HWAA22, IKM+23, JMOC21, JKSY22, Kar22, KR23, KKPC23, KGN+21, KFPV21, KG21, KD23, LMHL20, LMX+21, LIG+24, MMP20, MEC+24, MEDT+23, MSY+21, MKHT20, MOY+22, MBA21, MZV23, OEI+22, OXOG23, OCE+23, PTH24, PD23, RVM+21, Di 22, RJ21, RCW+20, RAJ+24, STA20, SGS23, SSPF24, SLC+22, SBB+24,

SWTC23, UYS22, VLS22, VV21, WWB22, WHB21, WWZ+23, WKR23, WHSG24, XOTI22, XLG+23, Yan21a, YFL22, YCCW23, YKK23b, ZLMH23, ZWC22, ŻTR+22, GMPG+21, KOF21, WHSK24, DFU20]. **Solvers** [JRS+21, BW23, CB23, EVMP20, EPM23, FA20a, FA20b, KKPC21, LMMP23, OIA+20, YSI+24, zYCD+20, YKY+22]. **Solving** [BAB+20, LZ21, ZAW+21, ZGW20, ASU+21, ABBD23, ATC+23, BJL+24, BKP22, BDR+20, HWL+23, JZW+22, KRG21, KSF+22, LQ21, Man24, MM22, Scr22a, TS23, XDF20, XSL+22, YZW21, YKK+23a, YSMBA23, YJ24, ZLY24]. **SOM** [KM22]. **SOMAFOAM** [VV21]. **Sommerfeld** [Arn20]. **Sommerfeld-type** [Arn20]. **sonic** [EOR21]. **sonic-boom** [EOR21]. **SootImage** [CEC+24]. **sooting** [CEC+24]. **source** [AFB+24a, ASU+21, ADF+22, ASC+21, BC20, BM22, BLN+21, BMT+20, BFI+21, BSC+21, CAWK22, CZS+21, COW24, CSW24, CW22, CKGW22, DIK+23, DFU20, DAA+24, FTZ+23, FH22, FYM+22, GDK21, GDJG23, GKT+24, GFD+24, HMYH22, HSB+24, HXS20, HWL+23, HLMB24, HRG+22, HKY+21, Hua23, HHT+24, KGN+21, KGT22, Koz23, KD23, LEE+24, LMHL20, LH22, MLZ+23, MBTB21, MMP+24, MFB23, MONW21, MVF20, MVAXP22, MRN20, NBC+24, Nor23, PMS+20a, DARJ23, PM21, PWC24, RZWW23, RHW+21, RJ21, SPLD20, SHB+20, SHW+21, SWTC23, THH21, TPK+21, WNS+21, WSK+22, XBL+20, XOTI22, YKSH20, YMCF23, YKK23b, ZRZ+21, ZJS+20, ZCS+24]. **sources** [COJ+22]. **Space** [MYMK+21, BW23, CLS+22a, DBM+24, DVC+22, GJ24, GMZ+20, HHT22, JLL+24, KKLZ23a, KKLZ23b, Koł23, LKP24, LCZ+21, LZYY23, LR22, MS24, MMP20, MSHP02, MSHP20, NBB+21, SLZY21, SZ24a, TCSA21, XHY+24, YYH21, ZW20, ZWP+22, YKY+22, BBH+24]. **space-** [LR22]. **space-charge** [DBM+24, KKLZ23a, KKLZ23b]. **space-fractional** [JLL+24]. **SpaceGroupIrep** [LCZ+21]. **spaces** [HPRS23, LH24, SKM+21, Zeb22]. **sparse** [DGM20, DFG+23, KKL21, NDFL24]. **SPARTACUS** [FTZ+23]. **Spatial** [HJGL22, BC21, MM23, XPF+24]. **spatial-grid** [BC21]. **spatially** [CHY+24, KFHR24]. **spatiotemporal** [GPN20, PSMRS+23]. **SPEC** [MPQ+22]. **Special** [GH21, GM24, LVMGF+23]. **species** [CJD+20, KDK23, SNP+20, WV22, YKYK23]. **specific** [SDBS24, ZDG+21]. **spectra** [CML+24, GBD+22, Hua24, HHT+24, KSG22, LGK+22, MGG+20, Pos22, RZY+24, RMFB23, TB20]. **Spectral** [CdBMdAS+21, CZS+21, CCW20, FRN21, GTA21, LBRW22, LZ21, LS22, MPS+24, MCB+20, NI22, RYS+24, SL22, SLZG20, SLL22, SWZ23, WLL22, WKR23, ZYXC24, ZLS+22, GSL24]. **spectral-element** [MPS+24]. **spectral-Galerkin** [GMZ+20]. **spectral/hp** [MCB+20]. **spectrometer** [SPF21]. **spectroscopic** [CK23]. **spectroscopy** [Jab22a, KMBP24]. **spectrum** [KMU+23, NS20, SKS24]. **SpectrumSDT** [GTMB21]. **specular** [Dan24]. **speed** [BL21, CKGW22, DBV+24, KMN21, LHG24, OCC23]. **Speedup** [BR20a]. **spent** [KJL+23]. **SPH** [CFLR24, HMR22, MEDT+23, MDZ24, OSK+21]. **SPH-based** [MEDT+23]. **SPHERA** [AMA+20]. **sphere** [YYH21]. **spheres** [KAG24]. **spherical**

[CCK23, DHK+21, GDB10, GCK21, LEE+21a, LQGL21, PCL24, QCZ23, SDBS24, TKC+21, ZZ21a, dMMLOS20]. **spheroidal** [SSB+23]. **spheropolyhedral** [QCZ23]. **spheropolyhedral-based** [QCZ23]. **SPHinXsys** [ZRZ+21]. **Spin** [RVM+21, BKRG22, BPMMP24, BRHT21, BCSS24, CZTF23, CL22b, FSMM24, GF23, GOCSS+23, GBD+22, IUJ21, JRG21, KRG21, KL22, KL23a, LL23, LR22, MBA21, QJ21, SZ23, TMH+23, UYS22, VCHH23, Yev21, VMRFC23]. **spin-** [BKRG22]. **Spin-1** [RVM+21, KRG21, MBA21]. **spin-boson** [SZ23]. **spin-glass** [JRG21]. **spin-half** [TMH+23]. **spin-one** [TMH+23]. **spin-orbit** [BKRG22, BRHT21, GOCSS+23, KRG21]. **spin-orbit-** [MBA21, RVM+21]. **spin-resolved** [LR22]. **spin-wave** [GBD+22]. **Spinney** [AM21a]. **spinning** [OS24]. **spinor** [SCL22]. **Spinsim** [TMH+23]. **SPIRAL** [dVAR+24]. **SPIRED** [BCSS24]. **spline** [WGG20]. **Splines** [KWK+21]. **split** [SAC+21, YYY22, ZYXC24]. **splitting** [BCGT24, DWD+24, LF24, Yan24a, YC20]. **SporTran** [EBBB22]. **SPP2** [CCG21]. **square** [BRAC23, BWW20, GST21]. **squared** [PAM24]. **SQuIDS** [ASW20]. **SRC** [COJ+22]. **SRC-UNED** [COJ+22]. **stability** [FFLR20, PCS+23, SKDH24, SFC20, TQGE23, WHSK24]. **Stabilized** [AGH21, YK21a]. **stabilized-scalar** [YK21a]. **stable** [BVV22, GZW20, HSA22, KSF+22, LWhK+20, LM21a, PRR23, TM24, YWTK23, Yan24a, ZCWY20, ZZ24]. **staggered** [ZLS+22]. **Stan** [Haz23]. **standalone** [AAB+21, RL21]. **Standard** [Bie21, AFJ+23, KHKL24, Kar23b, KKSV24, DPR+20, DRR+24, DDM20, HQRR20, UMA21]. **standardized** [BMREC21]. **stars** [VGGP+21]. **state** [AS22, ABWZ23, CR20, ENK24, GO23, KMM21, KM20, KMS20b, KW23, LWS+23, PTD20, SKM+21, Xav22, YZ20b]. **state-of-the-art** [KM20, KMS20b, SKM+21]. **state-to-state** [AS22]. **states** [BFD22, BTG22, CF21, DDM20, GTA21, GF21, GWPW21, GTMB21, LKK23, LU21, LR22, MDP22, PTD20, QJ21, SLZG20, TCSD24, WZC+24, XFGS24, YLL+22]. **static** [BR20b, DBH+22, JRS+21, LAD+21]. **Stationary** [GTA21, MDZ24, VZ20]. **statistical** [BKS22, Gon22, MZL+21, MNS+24, Ols23]. **steady** [HJGL22, LJH+23, YYY22, YZ20b]. **stellarator** [HK24, KBH+24]. **step** [AYB24, HPY21, MWJL23, PAZ+22, SL22, ACKB23]. **stepping** [CJZ21, NBCMH20, WJB21, ZX23]. **steric** [DCZ23]. **SternheimerGW** [SLZG20]. **stiffness** [XSL+22]. **stochastic** [CHY+24, FJ22, FTZ+23, KM22, MW21, RdPS24, WLF+23]. **stochasticity** [GTE21]. **Stokes** [WHSK24, ZX23, BMS+23, DAC+23, HPY21, HWL+23, JM24, KSF+22, LGDF20, LB24, MOMO24, PLL24, WT22]. **Stopping** [SA23, HHMH+22]. **strain** [Che23, LLZ+22, XZLX20]. **strain-stress** [LLZ+22]. **Strategies** [MBE+21, AWV22, CZX+21, KMM21, VXT+23]. **strategy** [TCSA21, WLZ+24, ZWZ+22]. **stratified** [Hoh24]. **STREAM** [CKC+21, CL21]. **streamer** [MHÅ21]. **STREAmS** [BMSP21, BMS+23]. **STREAmS-2.0** [BMS+23]. **Strength** [Eku24]. **stress**

[CT23, EGKH24, LLZ+22, ZRH21]. **stress-fluctuation** [CT23]. **stretched** [RVRT22]. **string** [KL22]. **StringSpinner** [KL22, KL23a]. **Strong** [HMSV23, AG21, BGR23, GHL+22, MT23, RZY+24, ZLMH23]. **strong-field** [MT23]. **strongly** [BDR+20, GBS+20]. **structural** [BDP+21, NNMJ22]. **Structure** [BLN+21, BGHC23, BGR23, ČPF+24, CWJ21, DSQ23, FASD20, FPSZ21, GK21, GO23, HTS+21, HY23, HTH+20, HSO+22, HLzY+20, JMOC21, JPJ+23, LBS+23, LS23, LLT+23, MKPW21, MKPW22, MFB23, MSM24, NG21, NVCS23, PAL+20, PPKK21, SZNW23, TCY23, TRB+20a, VSM+22, WZZS21, WBK+24, WXZH24, XQ21, YLLW24, YSX+20, YHY+21, zYCD+20, ZZ21b, ZZC20, ZHM21]. **structure-preserving** [CWJ21, XQ21]. **Structured** [LSNRD20, LJS21, MBCC23, PMSHG23]. **structures** [AS22, ASPDL+21, DNG+20, HLCD20, IMB+22, LBS+23, LXY+21, LLQ+23, MYM+22, MRG22, RL21, SLZG20, SJ20, TDR+20, ZHS+20, vTDGCR21]. **studies** [CGG21, GLSH21, LSF23, LFZ20, SZ23]. **Studio** [NKP20]. **Study** [RDZ+20, THH21, AGMFGE23, NS20, NBB+21, SKM+21, XLL+22, ZDG+21, ZBS+23]. **studying** [BPMMP24, May21, SC22]. **style** [Ham20b, WBK+24]. **SU3lib** [DLD+21]. **sub** [SZ23, YLIO22, ZYG21]. **sub-critical** [ZYG21]. **sub-Ohmic** [SZ23]. **sub-permutation** [YLIO22]. **subatomic** [AGJ+23]. **subdomains** [SVSC20]. **Subprograms** [HW22]. **Subsidiary** [GKIB21]. **subspace** [HKY+21]. **Subsystem** [MSG+21]. **subtraction** [LMWW24a, LM20]. **successful** [YHH+20]. **successive** [BJL+24]. **SudoDEM** [ZZ21a]. **suite** [ADW+23, BPMMP24, HBM+24, KLM+22, MEC+24, MBG+20, RDH+20, RRM+23, SSD+22]. **SUKI** [NUK+22]. **summation** [XWYQ21]. **Sunway** [CLZ+21]. **super** [TIG+24]. **super-heavy** [TIG+24]. **supercomputer** [RCS21]. **supercomputers** [GB22, KMM21, Kul20]. **superconducting** [BM22, JYL+23, WYHW24]. **superfluid** [JRS+21, VB22b]. **superlattices** [NNMJ22]. **supermultiplet** [PDD24]. **SuperScreen** [BM22]. **Supersonic** [BMS+23, BBV+22, RCX24]. **superstructure** [PTD20]. **supersymmetric** [KMU+23, Bie21]. **Supervised** [WZC+24]. **Support** [CZ21, WWDM20, ZW20, SPF21]. **supporting** [ABF+23b]. **Surf** [PMS20b]. **surface** [CFLR24, HSO+22, LGDF20, LMQ+23, PRR23, PCL24, SXYD24, SVJ+24, WA21, WNS+21, ZYML24, ZHZG23]. **surfaces** [CGR21, IGL+24, Org22, PMS20b, RV20, RV21, SD24, SDP24, TGBM22, VZ20, WGS+22, XDF20, YYZ+22]. **surfactant** [WYT23, YK21a, ZCWY20]. **Surfing** [PMS20b]. **surrogate** [SMC+22]. **survey** [WRM+24]. **SuSpect3** [KMU+23]. **Susskind** [Dür23]. **SVF** [WYZZ23]. **SWANLOP** [AB21]. **swarm** [TV24, ZZC20]. **swift** [SA23]. **swifter** [ZGZW23]. **switchable** [MBCC23]. **Symbolic** [GDB10, CLS22b, CB20, MG22, PSW23, CCK23]. **symbols** [XWYQ21]. **symmetric** [DEV20, LF24, SJY18, SJY20, zYMK+21, Zeb22]. **symmetric-** [SJY18, SJY20]. **symmetries** [CFBRE24]. **Symmetrization** [YT22]. **Symmetry** [IMB+22, TW21a, ALB22, FPSZ21, GF21, GLSH21, HA21, Kor23, MLD+22, PDD24, SKM+21, SCT21, ZXW+22]. **symmetry-adapted** [GF21, GLSH21, MLD+22]. **symmetry-preserving** [HA21]. **Synergistic**

[OBK+20]. **synthesis** [dBBVA20]. **synthesizing** [FLW+23]. **synthetic** [JSS+24, WBF+24]. **System** [AAA+20, CLY22, HBM+24, KRC+20, KvH21, LM21a, LLT+23, LSW+20, MMYU22, PYT+24, PK24, UJ21, eSdSBST21, WXX24, Yan21b, Yev21, ZCWY20, ZYXC24, ZYG21]. **system-bath** [CLY22]. **Systems** [MYMK+21, SGM+20, AGMFGE23, ARLDG24, ABBD23, BKS22, BMT+20, BLM+22, CR20, CPL21, CMJC21, COW24, DZZ21, DHK+21, DVC+22, FA21, Gal22, GTMB21, GF23, GLB+21, GSBN22, HPP23, IJVJ21, IUJ21, KMBP24, KHR+23, KKPC21, KSC+23, KDHL23, KAG24, KLM+22, LHZ20, LG21a, Lee21b, LLZ+23, LQGL21, MD20b, Man24, MFB23, MP21, MAJ20, MOY+22, OCK+24, Ols23, OLNG21, QJ21, RSD20, RMR+22, RHW+21, RMM21, RdSH+24, RBWD+24, SRT+20, SFKC22, SFBG20, SVJ+24, SP23, TC24, TMH+23, TRB20b, WPMK21, XZLX20, YKK+23a, YM21].

**T** [CCK23, COW24]. **tackling** [PPKK21]. **tagged** [LG21a]. **tagged-particle** [LG21a]. **tagger** [Ada22]. **tagging** [LNP+24]. **Taichi** [SGY24]. **Taichi-powered** [SGY24]. **Taihulight** [CLZ+21]. **tails** [AFJ+23]. **takes** [PGS+24]. **Talmi** [Efr21b]. **tapir** [GHL23]. **target** [BKS24a, BCD+21, NUK+22, OBC+24, SHRK22, TLC+21, YK21b]. **target-oriented** [YK21b]. **Task** [DP21, CCC20, DFU20, Di 22]. **Task-based** [DP21, DFU20, Di 22]. **Tau** [LNP+24]. **TAUOLA** [ABWZ23, Nie23]. **TauRunner** [SLP+22]. **TB2J** [HHVB21]. **TBPLaS** [LZK+23]. **TC** [Och23a, Och23b]. **TChem** [KDIN+23]. **TDDFT** [DHE+24]. **TDEP** [BBB20]. **TDHF** [ASS+24]. **TDSE** [ZLMH23]. **TE** [SS21a]. **tearing** [ZJM+21]. **technical** [KFHR24, NKP20]. **technique** [MG22, MDZ24, NDFL24, NBB+21, PAL+20, WMM+24, XFH+22, YMCF23, PGS+24]. **techniques** [DG20, GLB+21, KHKL24, RdSH+24, SFC20, VPS23, YZZ+23]. **telescopes** [AAG+20]. **Temperature** [BBB20, ASU+21, Bar22a, BCTS22, GO23, GJA21, GCWZ20, IUJ21, KKPC23, LLQ+23, SKC21, SC22, VV21, XZLX20]. **temperature-dependent** [KKPC23]. **tempering** [MMFdL21]. **Temporal** [SL22, ZLY24]. **temporally** [KFHR24]. **TeNeS** [MOY+22]. **TENO** [LF24, Tan24]. **tension** [CFLR24]. **Tensor** [CDD22, MOY+22, CKT21, JS24, LG23, MCMS24, OS24, TWW22, WICA22, YS22, YK21b]. **Tensor-network** [CDD22]. **tensor-product** [TWW22]. **TensorAlloy** [CGZ+20]. **TensorBNN** [KKP22]. **TensorFlow** [KKP22, WICA22]. **TEPPP** [HPP23]. **term** [LSS24, MP21, XZLX20]. **terms** [Ber24, Hid21, IUJ21, MD22, RBV+22]. **ternary** [KAS24]. **tessellation** [Nis22, SDP24]. **TETHYS** [CSBF23]. **tetragonal** [LHZ20]. **tetrahedral** [YXX+21]. **tetratomic** [RV21]. **TFmix** [SLK23]. **their** [ABFP24]. **Theoretical** [UMA21, CLEPF22, Jab24, RSC+22]. **theories** [DCZ23, HS24, MCMS24]. **Theory** [DvHSdS22, FKS20, MVK+24, ATRD21, BCCM+24, BW23, DMS+22, DH22, EST23, FASD20, FWL+24a, Fon21, Gai20, GF23, GM20, GBD+22, Hor24, HLzY+20, KKSV24, LACL24, LYC20,

Man24, MHK24, MDR+20, QJ21, SLZY21, SHW+21, TMC22, VCF22, YT23, YKSH20, DPR+20, DRR+24, SHW+21]. **thermal** [CK20a, CT23, DFP+20, EST23, FO20, FCTFR20, HYL+22, HTL+22, KMG+20, LDGN24, MMM20, MPN+21, RMCC22, VGGP+21, ZGW20, ŻTR+22, PLSB22]. **Thermo** [FLW+23, ZWC22]. **Thermo-lp** [FLW+23]. **Thermo4PFM** [FDPT23]. **thermochemical** [LWV20, WV22, YKYK23]. **Thermochemistry** [LWV20]. **Thermodynamic** [SLK23, AMP+21, FDPT23, FGCN+21, KvdW20]. **thermodynamics** [FLW+23, ZWC22]. **thermoelastic** [LVB22]. **thermoelasticity** [LDW+21]. **thermoelectric** [CL20]. **thermophysicalModels** [NJSY22]. **thermosolutal** [ZDG+21]. **Theta** [CK20b]. **thin** [BMP+24, RMR+22]. **thin-film** [BMP+24]. **third** [LLS+21, TSL21]. **third-order** [LLS+21]. **Thomas** [YNMR24]. **those** [MBCC23]. **thread** [PNL+24, RAJ+24]. **thread-block** [RAJ+24]. **threaded** [AG21]. **Three** [CLS+22a, CL21, AHP21, ASU+21, BKO20, BR20b, BSK+22, Efr20, Efr21a, GOS+22, GMZ+20, JDS20, JRS+21, KLD+21, LMQ+23, MD20b, MSH22, PK24, PD23, SRT+20, SXYD24, TTM22, WXZH24, YWTK23, ZDG+21, Zho23]. **three-body** [JDS20]. **three-channel** [GOS+22]. **three-component** [YWTK23]. **Three-dimensional** [CLS+22a, CL21, AHP21, BKO20, BR20b, BSK+22, GMZ+20, KLD+21, LMQ+23, MD20b, MSH22, PD23, SRT+20, SXYD24, TTM22, WXZH24, ZDG+21, Zho23]. **three-electrode** [PK24]. **three-particle** [Efr20, Efr21a]. **three-temperature** [ASU+21]. **throughput** [NAZ+21, PFG22, RDH+20, WXL+21, WGGC22]. **TIFF** [Ken24]. **Tight** [DSQ23, JPJ+23, KVSC21, LZK+23, NKP20, WPMK21, ZYLY22, NKP20]. **tight-binding** [JPJ+23, KVSC21, LZK+23, NKP20, WPMK21, ZYLY22, NKP20]. **Time** [DRZ+21, FMCB+20, Hor23a, LY22, MVK+24, PNL+24, RS20, TKS22, ZYX21, ZYX22, ADW+23, BV21, BAB+20, CJZ21, DGM20, DS22, DVC+22, DHE+24, Dio23, DG20, DBR24, EBBB22, ET24, GPD+22, GSLS20, GF23, GBD+22, GMZ+20, HSB+24, HW22, HLMB24, Hor23b, JM24, JGJ20, JRS+21, KCS22, KBSL22, KP23, KMR22, KM23, Koz23, LS22, LY24b, MZ22, MKHT20, PMK+23, PPK22, QWZ+21, RSC+22, SL22, SGS23, Scr22a, SNG20, SKC21, SCF20, TTM22, TSL21, WJB21, WWB22, WHB21, WBF+24, WKJB23, WBvdH20, XSL+22, XLKX21, YZW21, YSMBA23, ZX23]. **time-dependence** [BAB+20]. **Time-Dependent** [MVK+24, Hor23a, LY22, BAB+20, Dio23, GSLS20, GBD+22, HSB+24, JRS+21, KM23, LY24b, SGS23, Scr22a, WJB21, WHB21, WBvdH20, XSL+22, YSMBA23]. **Time-discretization** [TKS22]. **Time-domain** [DRZ+21, PNL+24, ET24, TTM22, YZW21]. **time-evolution** [GF23]. **time-explicit** [DS22]. **Time-independent** [FMCB+20, ADW+23, BV21]. **time-lapse** [DG20]. **time-of-flight** [WBF+24]. **Time-parallel** [RS20]. **time-reversible** [KP23]. **time-space** [GMZ+20]. **time-spectral** [LS22, SL22]. **time-stepping** [ZX23]. **time-warp** [RSC+22]. **TimeEvolver** [MZ22]. **times** [LTMK21]. **timescale** [RMR+22]. **tin** [PAL+20]. **tinie**

[DKRSR22]. **tip** [AUO+22]. **Tiresia** [TCSD24]. **tissue** [VRI24]. **TLBfind** [PLSB22]. **TMDICE** [Roh22]. **TMM** [BMP+24]. **TMM-Sim** [BMP+24]. **TNQMetro** [CDD22]. **Tokamak** [YYC+23, BYWW23, BJS+23, HEF21, JKSY22, LZ21, MGX24, MAMK21, MPH+24, RSHS24, SKYQ21, SDXY23, SBZ23, WDMZ24, YC20]. **TokaMaker** [HSB+24]. **tokamaks** [BFL+22, JSS+24, MG22, NSY+23]. **tomography** [BYL+21, HTN21, RZY+24, WKJB23]. **tomosynthesis** [BSG+21]. **Tool** [BHK+21, BLN+21, AMP+21, AFJ+23, AES21, BMM21, BMR+24a, BMP+24, BKS24b, CSBF23, EGKH24, FLW+23, FGCN+21, FLK+20, GHL23, HSB+24, HT20, HRG+22, IGL+24, Kan23, KKB+24, KMY+23, LLS+21, LR22, MMCC+22, MZD+20, MRG22, NYN+21, Ols23, DARJ23, RCB21, RJ21, SLBR22, SPLD20, SLB+23, SZ24a, SRML20, SCMP+22, TDR+20, TAB+22, UO20, WGGC22, YNV22, YNV23, ZHM+24, ZDLS21, dMMLOS20, Dju20]. **tool-kit** [WGGC22]. **Toolbox** [CV21, LWV20, OSE+20, ASW22, BTG22, CKGW22, FBC+21, GDK21, HTN21, HRU22, Hoh24, JZW+22, KMBP24, LSNRD20, PCS+23, RSD20, RZWW23, RSPJ21, RPG+20, SKDH24, Sch21, VCHH23, Yan24b]. **toolchain** [OIA+20]. **toolkit** [AFB+24b, BVV22, DCRF23, DIKSN24, EL24, Eku24, GAS+23, Hua23, KDIN+23, LVB22, LEL+22, MES+24, OSK+21, SC22, TQGE23, WMA+22, YTC+20]. **Tools** [CLVV22, DBBP23, FR20, HCAH+24, KvdW20, LHG+20]. **TopoAna** [ZDLS21]. **topography** [NBCMH20]. **topological** [ATC+23, GBR23, LU21, MCP23, VRI24, HPP23]. **topologies** [GHL23]. **topology** [AS24a, Nis23]. **tops** [SJY18, SJY20]. **TORCWA** [KL23b]. **toroidal** [CMS22, LOT+20, LZ21, MG22, MMYU22]. **toroidally** [BJL+24]. **toroidally-rotating** [BJL+24]. **torsional** [CZB+23]. **Total** [MSHP02, MSHP20, HMYH22, HSO+22, MD20a]. **Total-energy** [MSHP02, MSHP20]. **total-reflection** [HMYH22, HSO+22]. **Townsend** [MHÅ21]. **TPMD** [SC22]. **tqix** [HTN21]. **tqix.pis** [VCHH23]. **trace** [LMWW24b]. **tracing** [FXQS21, GSL+23, SHS22, WWM+22, sXBkB+22]. **Track** [BBB+21, AAB+21, BDGS21, TAGC22b, SP23]. **tracker** [AAB+21]. **Tracking** [DHK+21, AGJ+23, ABK+22, KSC+23, LBRW22, NSY+23, NBS+20, PCL24, SRC21, SBP20, WWM+22, YGSW21]. **tractable** [RDZ+20]. **traction** [HGS20]. **traditional** [TCY+21]. **Training** [BKS24a, WZC+24, vdHKB+23]. **trajectories** [BFT20, SKC21, SC22, SZT24, TBAR21]. **TRANS** [SHS22, ZLY24]. **Trans-Net** [ZLY24]. **transcendental** [BA24]. **transcorrelated** [Och23a, Och23b]. **Transfer** [BMR+23, CJZ21, FXQS21, KKPC23, KSIL22, MDDI21, NBB+21]. **transferability** [MYKC23]. **transferable** [SPMS23, ZLY24]. **transfers** [HRG+22]. **transform** [CLEPF23, KIK20]. **transformation** [IJVJ21, KF23, Lee21b, PP21, RMFB23, SMGK21, YW21, YJ24]. **transformations** [ABFP24, Efr20, Efr21a, MRT+22, YKY+22, dBBVA20].

**transformed** [MSN+22]. **transforms** [BJS+23, KPST21]. **transient** [AE23, ET24, Ryd20]. **Transition** [VLS22, BMM21, BFD22, CXCZ23, LKK23, LGBJ20, MMM23, MMFdL21, VB22b]. **transitions** [Bar22a, EST23, GSV23, SZ23, VRI24]. **TRANSLATE** [BCF+24]. **transmission** [Arn20, CGV+22, SLL+24]. **transmutation** [LF20]. **Transparent** [SP20]. **transpond** [BGW+22]. **Transport** [KOF21, NRKA22, AUEO24, ABGD+20, ASPDL+21, BGW+22, BCF+24, BSS+23, CK20a, CPL21, CHA21, CL20, CKC+21, CL21, DFP+20, DKRSR22, EBBB22, FO21, GAGO21, GLN23, Jab24, Kal20, LBM+23, LLL24, LFL+24, LHWX24, MK22, MBTB21, MMM20, MGC+23, MP21, MAMK21, MMYU22, NSY+23, OBGA24, PLT+23, PYT+24, PPR+21, RDC+20, SHS22, SP23, SLIC24, TAY+24, WAN+22, WXW+21, XDF20, XSL+22, YHH+20, YYH21, YJLW21, YZHL22, ZLLM23, ZPL+21, ZCS+24]. **transport-property** [AUEO24]. **TransROTA** [BJL+24]. **transverse** [KPST21]. **trapped** [BFT20]. **traps** [BTK24]. **traversal** [WVK21]. **TRAVOLTA** [RBWD+24]. **t}re** [ST23b]. **treams** [BFCR24]. **treatment** [RZH22, YXX+21]. **tRecX** [Scr22a]. **Tree** [CFL+22, SJ20, WVK21]. **treecode** [CGR21, KKLZ23b]. **trends** [KIK20]. **trhepd** [HMYH22, HMYH22, HSO+22]. **trial** [MMM23]. **trials** [BSG+21]. **triangular** [AIZ23, BRAC23, SS21b, YXX+21]. **triangulated** [TGBM22]. **Triatomic** [RV20, GTMB21, Xav22]. **trichalcogenides** [CXCZ23]. **tridiagonal** [KKPC21, YKK+23a]. **trigger** [TGIM23]. **triggering** [ABF+23b]. **trigonal** [LHZ20]. **TRIM** [PFG22]. **trions** [PC21]. **triple** [AFB+24b, Bzo21]. **triple-** [Bzo21]. **triple-GEM** [AFB+24b]. **TripleK** [Bzo21]. **triply** [LXY+21]. **TRIQS** [KM22]. **TRIQS/SOM** [KM22]. **triSurfaceImmersion** [TGBM22]. **Tropical** [BMT23]. **truncated** [HHT22]. **Tsinghua** [ZXT22, ZXT23]. **TTCF4LAMMPS** [MES+24]. **TTDFT** [LG23]. **Tucker** [LG23]. **TUMME** [ZXT22, ZXT23]. **tuneable** [GTE21]. **tungsten** [YHH+20]. **Tuning** [BSS+23, LAC21]. **Tunneling** [Gul20, SZNW23]. **tunnels** [Ryd20]. **turboMagnon** [GBD+22]. **TurboPy** [RGS+21]. **turbulence** [FA20a, Ken24, KPL+21, LBRW22, LF24, MSU+21, SKYQ21, SDXY23, SBZ23, ZYX21, ZYX22, ZSqXY21]. **turbulent** [BMSP21, BMS+23, FA20b, GB22, KWZ24, KKPC23, NS20, VLS22]. **TURTLE** [NBCMH20]. **tutorial** [BM20, SOH+23]. **tutorial-driven** [BM20]. **twiddling** [Fis24]. **twisted** [Kub24]. **twisted-mass** [Kub24]. **Twister** [NNMJ22]. **Two** [HT24, JYL+23, KM20, LF20, LHTP+24, AYB24, ABFP24, BBA23, BM22, CAWK22, CCK23, Dan24, Dau23, DKRSR22, EPM23, ENK24, GDB10, GCK21, KWK+21, KBSL22, KM23, KMS20a, LW24, MA24, MBJB24, MFB23, MYM+22, MCP23, SRT+20, SLZ+24, SMB20, SSB+23, SFS22, UÁEPGBP24, WT22, Yan21b, ZYXC24, KMS20b]. **two-body** [KWK+21]. **two-center** [SSB+23]. **Two-dimensional** [HT24, LHTP+24, BM22, Dan24, DKRSR22, KM23, MFB23, MYM+22, SRT+20, UÁEPGBP24]. **Two-fluid** [JYL+23]. **Two-Higgs-Doublet** [KM20, KMS20b]. **two-phase**

[BBA23, CAWK22, Dau23, ENK24, KBSL22, MA24, SFS22, WT22, Yan21b]. **two-photon** [KMS20a]. **two-step** [AYB24]. **twoWayGPBEFoam** [LMHL20]. **type** [Arn20, BCGT24, CZY20, GMZ+20, Pöt20, TCY23, TL20, XFH+22, ZDLS21].

**U** [GOCSS+23]. **UCNS3D** [ADF+22]. **udkm1Dsim** [Sch21]. **UKRmol** [HBM+24, MBG+20]. **UKRmol-scripts** [HBM+24]. **ultra** [BCT20, BKBL22, EES24]. **ultra-peripheral** [BCT20, BKBL22]. **ultrafast** [Hua24, Sch21, SLB+23, Tan23, WKJB23, WBvdH20, ZPL+21]. **ultrashort** [BAB+20, MD22]. **ULYSSES** [GMPG+21, GLPG+23]. **unbinding** [Ryd20]. **uncertainty** [KMG+20, MZL+21, SMC+22, TRN+24, TO21, VEHCM21]. **Unconditionally** [Yan24a, GZW20, LM21a, ZCWY20, ZZ24]. **unconditionally-stable** [ZZ24]. **underlying** [RZ23]. **UNDI** [BFI+21]. **UnDiFi** [CAC+22]. **UnDiFi-2D** [CAC+22]. **UNED** [COJ+22]. **unfolding** [RMFB23]. **Unified** [KWZ24, ZWP+22, FJ22, FTZ+23, LSW+20, LHG24, STA20, XFH+22]. **Uniform** [JLW24, PCL24, NR21, PCS+20, VB22b]. **unipolar** [WSK+22, YFL22]. **uniqueness** [MNS+24]. **Unit** [AAA+20, AGH21]. **unitarity** [ADC+21]. **unitary** [GH21]. **units** [DC22, WICA22]. **Universal** [CXCZ23, GLPG+23, GMPG+21]. **universe** [BMM21, FFTV23]. **University** [ZXT22, ZXT23]. **Unleashing** [ZZ21a]. **Unlocking** [RYS+24]. **unoccupied** [SLZG20]. **Unravelling** [VPPQ21]. **UNRES** [OCK+24]. **unsaturated** [HRG+22]. **unscented** [AGJ+23]. **unsplit** [LH22, LH24, MOV21]. **unstable** [KvdW20, KAB+21, LWhK+20]. **unsteady** [CJZ21, SFS22, YYY22]. **unstructured** [ADF+22, CAC+22, EPM23, KFC+20, NTO24, NSY+23, PLF20, TGBM22, ZDSS23]. **unsupervised** [WYZZ23]. **Up-sampling** [TCcN23]. **Upcgen** [BKBL22]. **Update** [IKM+24, AJDS+21, ABWZ23, GvdBdGN24, HJGL22, LJH+23, XOTI22]. **Updated** [CTPS22, Hor24, SPTPR21, SLL+24, SZY+22]. **Updates** [AJW+21, FQRR22]. **Upgraded** [NUK+22, PMA+21, YZW22]. **URANOS** [DAC+23]. **urban** [YCC22]. **usage** [CHA21]. **use** [LSS24, MG22, TPS+24, WKBW21]. **used** [KIK20]. **User** [SMB20, WAYL23, BMR+24b, DvHSdS22, HGS20, KKSV24, MMCC+22, WXL+21, YR21]. **user-defined** [KKSV24]. **user-friendly** [HGS20, MMCC+22, WXL+21]. **User-ready** [SMB20]. **users** [YTC+20]. **usine** [Mau20]. **Using** [MMM23, TAGC22b, ABBD23, Ano20c, ASC+21, BOSM24, BRAC23, BGH22, BKB+21, BB24b, CE22, CGSO20, CFLR24, CL20, CZB+23, CKT21, CT23, CJ21, CLEPF22, CLEPF23, CLEP24, CNS22, DMS+22, Dau23, DS22, DC22, Dry21, FASD20, FMBD22, GF23, GBD+22, GAS+23, HT24, HW22, HSO+22, HLzY+20, HG22, Ilt21, JSS+24, JS24, JPJ+23, KWK+21, KK16, KWZ24, KF23, KCS22, KSJ+22, KKY24, KPL+21, Kor23, KKP22, LOT+20, LMX+21, LZ21, LJQ+22, LM22, LVMGF+23, MMC+21, MSN+22, MGG+20, MBG+20, MAJ20, MKHT20, MPSK21, MPQ+22, Nis22, OIA+20, Och23a, Och23b, PMSHG23, PBK21, PP23, Par21, PNL+24, PCS+23, PFG22, Di 22,

RCW+20, SFBG20, SKC21, SC22, SFC20, SP23, SLC+22, SS21b, TAGC22a, TGGC23, TMC22, WGG20, WXW+21, WXL+21, WWM+22, WA21, WXZH24, WS20, WKJB23, Xav22, XHY+24, YJLW21, YLL+22]. **using** [ZLV23, dBBVA20]. **utilitarian** [BC22]. **Utility** [DBdFdSR21]. **utilizing** [WHSG24].

**v** [AGK+23]. **v.9.0.0** [AMA+20]. **v1.0.0** [BM20, SY20]. **v1.1** [CR20, GKIB21]. **v1.2** [ADH+20]. **v1.3.0** [BDK+23]. **V2** [LG21b, AAHJ20, BMM21]. **v2.0** [OSE+20]. **v2.0.0** [BN23]. **v2107** [GDK21, HRG+22]. **v3** [DRR+24]. **v3.0** [EL24]. **v4.0** [MSN+22]. **v5** [ZW20]. **v5.1** [CZ21]. **vacancies** [WLF+24]. **vacuum** [Sat21]. **valence** [CXCZ23]. **validating** [MMFdL21]. **validation** [CEC+24, DIK+23, DARJ23, SCR+22b, ZYG21]. **value** [ATC+23, FYW23, KFHR24]. **valued** [CL22a]. **values** [GOST23, Jab20]. **Vanderbilt** [TIG+24]. **vanishing** [JDS20]. **variable** [WYT23, YK21a, PBK21]. **variables** [ABFP24, Par21]. **variance** [CHA21, PLT+23, PPR+21]. **variance-reduced** [PPR+21]. **variant** [WYT23, YK21a]. **variants** [Hor24]. **Variational** [WHSG24, YYH21, AGH21, Jia20, PC21, SZ23, XSL+22, XOTI22, XFGS24, YZHL22]. **Variationally** [RG21]. **variations** [MM23]. **various** [CW22, HWZ24, SHW+21, sXBkB+22]. **varRhoTurbVOF** [FA20a, FA20b]. **varying** [SD24]. **VASP** [DCRF23, GWPW21, LR22, MPSK21, WXL+21, YTC+20]. **VASPKIT** [WXL+21]. **Vector** [FMBD22, ONH+20, ABB+22, CV24, KL23a, TW21b, WWDM20]. **Vector-based** [ONH+20]. **vector-meson** [KL23a]. **vectorial** [CMS22]. **vectorised** [EPM23]. **vectorized** [CNS22]. **VegasFlow** [CCM20]. **VELAS** [RZWW23]. **velocity** [HFP21, KFC+20, UJ21, VPPQ21, Xie23]. **VENUS** [MPQ+22]. **VENUS-LEVIS** [MPQ+22]. **Verification** [DIK+23, MGC+23, SCR+22b, SBB+24, Bak23, CJD+20, KDK23]. **verified** [GAS+23, LHWX24]. **versatile** [BVV22, BMP+24, KKPC23, WLL22]. **Version** [AKK+24, AAT+20, ASPDL+21, BC22, GLPG+23, HQF+20, KKM+20, Pos22, SJP21a, ASS+24, BMS+23, CB23, CCG21, CZB+23, DS22, DACA+22, DP21, Dio23, FTG23, GST21, GOS+22, GG24, Hor24, Jab22b, Koł22, MS24, MBJB24, MSN+22, MPZB+24, NAZ+22, Org22, RZY+24, SMO+20a, SLL+24, SVJ+24, SAS20, YZW22, ZXT23]. **versions** [BBH+23, IKM+24]. **vertex** [WLCF21]. **Very** [Koz23, KAB+21, OCK+24]. **VHEGEN** [LHZ20]. **via** [AUO+22, ABD+23, DR21, EGKH24, GSV23, LG21a, LKK23, LM23, NAZ+21, RV20, RV21, Roh22, VGGP+21, YK21b, ZZC20]. **vibrational** [GTMB21, KSG22, MEC+24]. **vibronic** [LHZ20]. **viewSq** [MKPW21, MKPW22]. **Vincia** [BP21]. **violation** [KKSV24]. **Virtual** [LLL24, BSG+21, LHC20]. **VIRTUS** [MMP20]. **viscous** [RCW+20]. **VISROC** [CTPS22]. **Visual** [MKPW22, Gro22, MKPW21]. **visualisation**

[NRG24]. **Visualization** [CTPS22, EL24, NRG22, RZWW23, WGGC22]. **visualizing** [MKPW21, MKPW22, TQGE23, vTDGCR21]. **Vlasov** [LSW+20, CE22, Ein20, KMD+21, PMK+23, TCSA21, TKC+21, YKY+22, ZLL+24]. **VMD** [MKPW21, MKPW22, WKBW21]. **Vofi** [CCL+22]. **VOFTools** [LHG+20]. **volcano** [ZLV23]. **volume** [ADF+22, CCL+22, Dau23, DS22, FZD+24, FA20a, FA20b, KFC+20, LXY+21, LY24a, LHG+20, LH22, LH24, MSM24, PGYF21, TGBM22, VGGP+21, VTB+21, WH23]. **volume-conservation-improved** [LY24a]. **Voro** [LLR23]. **Voronoi** [LLR23, MRD23, Nis22, PCL24]. **Vorotis** [Nis22]. **vortices** [KSDH23]. **VPA** [PBK21]. **VQE** [XFGS24]. **VTAnDeM** [TQGE23].

**walks** [MW21]. **wall** [BKB+21, DAC+23, RZH22, YGSW21]. **wall-bounded** [DAC+23]. **wan2respack** [KMY+23]. **Wang** [AM21b, MDP22, SJ21]. **Wannier** [DSQ23, Kor23, ZXW+22]. **Wannier90** [KMY+23]. **WannSymm** [ZXW+22]. **WanTiBEXOS** [DSQ23]. **warm** [BCTS22, BRHT21, MHK24]. **warp** [RSC+22]. **water** [DS22, HRG+22, DARJ23, STA20]. **watershed** [HRG+22]. **wave** [AJDS+21, BGW+22, CGV+22, Dio23, FASD20, FWL+24a, GBD+22, GMZ+20, JZW+22, LL23, MSHP02, MSHP20, NS20, NBB+21, OYC24, Pos22, RCB+20, RRC+24, SJP21a, TTM22, TL20, Yan23, YJLW21, YR21, ZZZ+20, WWDM20, AYI+24]. **wave-packet** [Dio23]. **waveform** [DRZ+21]. **waveforms** [GF23]. **wavefunctions** [MONW21, RCP+24]. **wavelet** [LDGN24, WXZH24]. **wavelet-learning** [LDGN24]. **waves** [AB21, BR20a, CFPS23, HM24, MDZ24, WXY20]. **way** [DEdM24]. **ways** [GSBN22]. **weak** [LGBJ20]. **Weakly** [CLVV22, WLF+23, HMR22]. **weakly-compressible** [HMR22]. **web** [BMR+23, BMR+24b]. **week** [BR20a]. **weight** [NBC+24]. **Weighted** [MGX24, MRD23]. **weighter** [AAA+21]. **well** [MA24, ZZ24]. **well-balanced** [MA24]. **well-posed** [ZZ24]. **WENO** [EOR21]. **wettability** [NLS24]. **Weyl** [SLBR22]. **Wheeler** [HA23]. **whistler** [NS20]. **whole** [CL21]. **whole-core** [CL21]. **widths** [ABH+23]. **WIEN2k** [GBR23]. **wiggler** [ASA+22]. **Wigner** [DLD+21, PDD24, XWYQ21]. **Wilson** [Dür23, FKK+21]. **WIMP** [GJJN23, JKST22]. **WIMP-nucleus** [GJJN23]. **WimPyDD** [JKST22]. **wind** [YCC22]. **window** [MDZ24]. **within** [BN20, BN23, Dan23, GOCSS+23, Mar22, NVC20, TWW22, WZZ+23, XSL+22, YHY+21]. **without** [Ham20b, NA20, SLZG20, SKM+21]. **WloopPHI** [SLBR22]. **workflow** [DSW+23, GO23, LACL24, SS22, TPS+24, vTDGCR21]. **workflows** [DIAA21, ZGZW23]. **WPF** [GOS+22]. **wrapper** [FCSP20]. **writing** [KSIL22]. **wurtzite** [HLCD20].

**X** [MKPW22, CML+24, HTN21, Hua24, Jab22a, MKPW21, MSU+21, SPF21, WKJB23]. **X-ray** [MKPW22, CML+24, Hua24, Jab22a, MKPW21, SPF21, WKJB23]. **x86** [CZTF23]. **XANES** [BDP+21, MGG+20]. **Xatu** [UÁEPGBP24]. **XCHEM** [BFMA+24]. **XCHEM-2.0** [BFMA+24]. **XLB** [AS24b]. **Xsorb** [PRR23].

**XTOR** [NDFL24]. **XTOR-K** [NDFL24].

**YADE** [KGT22, CCC20]. **YAM2** [Par21]. **Yan** [AFJ+23]. **years** [SHB+20]. **yield** [HA23]. **ython** [VMRFC23].

**Z'** [LSZ23]. **Z'-explorer** [LSZ23]. **Z1** [KDHL23]. **Z2** [GBR23]. **Zapdos** [DIK+23]. **ZEFR** [RCW+20]. **zero** [DH20, MOMO24]. **zero-dimensional** [MOMO24]. **Zhang** [PWC24]. **zinc** [HLCD20]. **zinc-blende** [HLCD20]. **ZMCintegral** [CZ21, WZPW20, ZW20]. **ZMCintegral-v5** [ZW20]. **ZMCintegral-v5.1** [CZ21]. **ZZPolyCalc** [PWC24].

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**Aiola:2021:HSS**

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**Aiello:2020:GKG**

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[AAHJ20] A. Arbey, J. Auffinger, K. P. Hickerson, and E. S. Jenssen. `AlterBBN v2`: a public code for calculating Big-Bang nucleosynthesis constraints in alternative cosmologies. *Computer Physics Communications*, 248(??):??, March 2020. CODEN CPHCBZ. ISSN 0010-4655 (print), 1879-2944 (electronic). URL `http://www.sciencedirect.com/science/article/pii/S0010465519303236`.

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[AALK20] Dmitry Alexeev, Lucas Amoudruz, Sergey Litvinov, and Petros Koumoutsakos. `Mirheo`: High-performance mesoscale simulations for microfluidics. *Computer Physics Communications*, 254(??):??, September 2020. CODEN CPHCBZ. ISSN 0010-4655 (print), 1879-2944 (electronic). URL `http://www.sciencedirect.com/science/article/pii/S001046552030093X`.

**Alperen:2023:HEN**

[AAMY23] Abdullah Alperen, Hasan Metin Aktulga, Pieter Maris, and Chao Yang. Hybrid eigensolvers for nuclear configuration interaction calculations. *Computer Physics Communications*, 292(??):??, November 2023. CODEN CPHCBZ. ISSN 0010-4655 (print), 1879-2944 (electronic). URL `http://www.sciencedirect.com/science/article/pii/S0010465523002333`.

**Allanach:2014:NMS**

[AAT+14] B. C. Allanach, P. Athron, Lewis C. Tunstall, A. Voigt, and A. G. Williams. Next-to-minimal `SOFTSUSY`. *Com-*

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**Allanach:2020:CNM**

[AAT+20] B. C. Allanach, P. Athron, Lewis C. Tunstall, A. Voigt, and A. G. Williams. Corrigendum to "Next-to-Minimal SOFTSUSY" [Comput. Phys. Comm. **185** (2014) 2322–2339] (New Version Announcement). *Computer Physics Communications*, 250(??):??, May 2020. CODEN CPHCBZ. ISSN 0010-4655 (print), 1879-2944 (electronic). URL `http://www.sciencedirect.com/science/article/pii/S0010465519303753`. See [AAT+14].

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**Andersen:2022:HHE**

[ABB+22] Jeppe R. Andersen, James Black, Helen Brooks, Bertrand Ducloué, Marian Heil, Andreas Maier, and Jennifer M. Smillie. `HEJ 2.1`: High-energy resummation with vector bosons and next-to-leading logarithms. *Computer Physics Communications*, 278(??):??, September 2022. CODEN CPHCBZ. ISSN 0010-4655 (print), 1879-2944 (electronic). URL `http://www.sciencedirect.com/science/article/pii/S0010465522001230`.

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[ABB+24] G. Alguero, G. Bélanger, F. Boudjema, S. Chakraborti, A. Goudelis, S. Kraml, A. Mjallal, and A. Pukhov. `micrOMEGAs 6.0`: $N$-component dark matter. *Computer Physics Communications*, 299(??):??, June 2024. CODEN CPHCBZ. ISSN 0010-4655 (print), 1879-2944 (electronic). URL `http://www.sciencedirect.com/science/article/pii/S0010465524000560`.

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[ABBD23] B. Ananthanarayan, Sumit Banik, Souvik Bera, and Sudeepan Datta. `FeynGKZ`: a `Mathematica` package for solving Feynman integrals using GKZ hypergeometric systems. *Computer Physics Communications*, 287(??):??, June 2023. CODEN CPHCBZ. ISSN 0010-4655 (print), 1879-2944 (electronic). URL `http://www.sciencedirect.com/science/article/pii/S0010465523000449`.

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[ABD+23] Tommaso Armadillo, Roberto Bonciani, Simone Devoto, Narayan Rana, and Alessandro Vicini. Evaluation of Feynman integrals with arbitrary complex masses via series expansions. *Computer Physics Communications*, 282(??):??, January 2023. CODEN CPHCBZ. ISSN 0010-4655 (print), 1879-2944 (electronic). URL `http://www.sciencedirect.com/science/article/pii/S0010465522002648`.

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[ABF+23b] M. V. Araújo, M. Begalli, W. S. Freund, G. I. Gonçalves, M. Khandoga, B. Laforge, A. Leopold, J. L. Marin, B. S-M. Peralva, J. V. F. Pinto, M. S. Santos, J. M. Seixas, E. F. Simas Filho, and E. E. P. Souza. Lorenzetti Showers — a general-purpose framework for supporting signal reconstruction and triggering with calorimeters. *Computer Physics Communications*, 286(??):??, May 2023. CODEN CPHCBZ. ISSN 0010-4655 (print), 1879-2944 (electronic). URL `http://www.sciencedirect.com/science/article/pii/S0010465523000164`.

**Ananthanarayan:2024:OWR**

[ABFP24] B. Ananthanarayan, Souvik Bera, S. Friot, and Tanay Pathak. `Olsson.wl` and `ROC2.wl`: Mathematica packages for transformations of multivariable hypergeometric functions and regions of convergence for their series representations in the two

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[ABGD+20] B. Al Atoum, S. F. Biagi, D. González-Díaz, B. J. P. Jones, and A. D. McDonald. Electron transport in gaseous detectors with a Python-based Monte Carlo simulation code. *Computer Physics Communications*, 254(??):??, September 2020. CODEN CPHCBZ. ISSN 0010-4655 (print), 1879-2944 (electronic). URL `http://www.sciencedirect.com/science/article/pii/S0010465520301533`.

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[ABH+23] Peter Athron, Adam Büchner, Dylan Harries, Wojciech Kotlarski, Dominik Stöckinger, and Alexander Voigt. `FlexibleDecay`: an automated calculator of scalar decay widths. *Computer Physics Communications*, 283(??):??, February 2023. CODEN CPHCBZ. ISSN 0010-4655 (print), 1879-2944 (electronic). URL `http://www.sciencedirect.com/science/article/pii/S0010465522003034`.

**Appleby:2022:MFF**

[ABK+22] Robert B. Appleby, Roger J. Barlow, Dirk Krücker, James Molson, Scott Rowan, Sam Tygier, Haroon Rafique, Nicholas Walker, and Andrzej Wolski. `Merlin++`, a flexible and feature-rich accelerator physics and particle tracking library. *Computer Physics Communications*, 271(??):??, February 2022. CODEN CPHCBZ. ISSN 0010-4655 (print), 1879-2944 (electronic). URL `http://www.sciencedirect.com/science/article/pii/S0010465521003167`.

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[ABWZ23] S. Antropov, Sw. Banerjee, Z. Was, and J. Zaremba. `TAUOLA` update for decay channels with $e^+e^-$ pairs in the final state. *Computer Physics Communications*, 283(??):??, February 2023. CODEN CPHCBZ. ISSN 0010-4655 (print), 1879-2944 (electronic). URL `http://www.sciencedirect.com/science/article/pii/S0010465522003113`.

**Altenmuller:2022:RPR**

[ACD+22] Konrad Altenmüller, Susana Cebrián, Theopisti Dafni, David Díez-Ibáñez, Javier Galán, Javier Galindo, Juan Antonio García, Igor G. Irastorza, Gloria Luzón, Cristina Margalejo, Hector Mirallas, Luis Obis, Oscar Pérez, Ke Han, Kaixiang Ni, Yann Bedfer, Barbara Biasuzzi, Esther Ferrer-Ribas, Damien Neyret, Thomas Papaevangelou, Cristian Cogollos, and Eduardo Picatoste. REST-for-physics, a ROOT-based framework for event oriented data analysis and combined Monte Carlo response. *Computer Physics Communications*, 273(??): ??, April 2022. CODEN CPHCBZ. ISSN 0010-4655 (print), 1879-2944 (electronic). URL `http://www.sciencedirect.com/science/article/pii/S0010465521003933`.

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[ACKB23] Ali Behcet Alpat, Abdullah Coban, Hakan Kaya, and Giovanni Bartolini. `MRADSIM-Converter`: a new software for STEP to GDML conversion. *Computer Physics Communications*, 286 (??):??, May 2023. CODEN CPHCBZ. ISSN 0010-4655 (print), 1879-2944 (electronic). URL `http://www.sciencedirect.com/science/article/pii/S0010465523000334`.

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[ACS+22] A. Amaricci, L. Crippa, A. Scazzola, F. Petocchi, G. Mazza, L. de Medici, and M. Capone. `EDIpack`: a parallel exact diagonalization package for quantum impurity problems. *Computer Physics Communications*, 273(??):??, April 2022. CODEN CPHCBZ. ISSN 0010-4655 (print), 1879-2944 (electronic). URL `http://www.sciencedirect.com/science/article/pii/S0010465521003738`.

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[Ada22] Jaroslav Adam. `GETaLM`: a generator for electron tagger and luminosity monitor for electron–proton and ion collisions. *Computer Physics Communications*, 272(??):??, March 2022. CODEN CPHCBZ. ISSN 0010-4655 (print), 1879-2944 (electronic). URL `http://www.sciencedirect.com/science/article/pii/S0010465521003635`.

**Abreu:2021:CCF**

[ADC+21] S. Abreu, J. Dormans, F. Febres Cordero, H. Ita, M. Kraus, B. Page, E. Pascual, M. S. Ruf, and V. Sotnikov. `Caravel`:

a C++ framework for the computation of multi-loop amplitudes with numerical unitarity. *Computer Physics Communications*, 267(??):??, October 2021. CODEN CPHCBZ. ISSN 0010-4655 (print), 1879-2944 (electronic). URL `http://www.sciencedirect.com/science/article/pii/S0010465521001818`.

**Alves:2020:GGF**

[ADdM20] P. R. L. Alves, L. G. S. Duarte, and L. A. C. P. da Mota. The goodness of global fitting in the reconstruction scheme. *Computer Physics Communications*, 248(??):??, March 2020. CODEN CPHCBZ. ISSN 0010-4655 (print), 1879-2944 (electronic). URL `http://www.sciencedirect.com/science/article/pii/S0010465519303765`.

**Antoniadis:2022:UOS**

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