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FMBD22, Gal22, GDK21, GAGO21, HPY21, HL21, HTL+22, HT20, HWL+23, HFP21, HWAA22, HBM+24, HLCD20, HHT+24, IJVJ21, JLW24, JKSY22, KKLZ23a, KKLZ23b, KTF22, KRJ23, KPR+24, KMN21, KSF+22, KHR+23, KR23, KL23b, KM23, KRE22, KG21, LGDF20, LAD+21, LLC+23, LWS+23, 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, Di 22, SRC21, SLB+23, SBG23, SWTC23, TCY+21, TPS+24, TAB+22, TLC+21, UD24, VB22a, VV21, eSdSBST21, WAET22, WPMK21, WVK21, WKJB23, XFH+22, YFL22, YCCW23, YKK+23a, YSX+20]. **based** [YZHL22, YKSH20, YMCF23, YK21b, YKK23b, YZZ+23, ZWC+20, Zha20, ZRZ+21, ZWZ+22, ZRH21, Zho23, ZHZG23, SKEZ24]. **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]. **BEC2HPC** [GTA21]. **BECs** [SCL22]. **BEEC2.0** [YZW22]. **behavior** [JLL+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, MSG+21, UMA21]. **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]. **bimetric** [Tor20]. **bimEX** [Tor20]. **binary** [LLT+23, LLQ+23, 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]. **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, UJ21, ZJ23]. **block-pressure-velocity** [UJ21]. **blocking** [AWV22]. **blood** [ZMC23, ZHZ+23]. **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, Ano24b, Ano24c, Ano24d, Ano24e, Ano24f]. **bob** [SPTPR21]. **Body** [GBJ+21, ATRD21, DC22, JDS20, KWK+21, MAJ20, PPKK21, RMM21, Xav22, XBL+20]. **Bogner** [CCK23]. **Bogoliubov** [ATRD21, CLS+22a, MSN+22, SKDH24]. **Boltzmann** [ASC+21, AHP21, BBA+20, CK20b, CKT21, DACA+22, DCZ23, JMOC21, KFPV21, KBSH20, KAS24, MWJL23, MD21, NL23a, PPR+21, PLSB22, QCZ23, STA20, WJB21, WWB22, WHB21, WA21, WKR23, YCCW23, 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** [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, RZH22, STA20, SP20, SXYD24, TCD20, TTM22, WXY20, Yan21a, YSX+20, YXX+21, 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]. **bubbly** [LMHL20]. **build** [IGL+24]. **bulk** [DAA+24, SLDF+21, WGS+22, MMC+22]. **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]. **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, 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, IJVJ21, Jab22a, JPJ+23, KCS22, LVB22, LWS+23, LLS+21, LG23, MBJB24, MAJ20, MSHP02, MSHP20, MDR+20, NVCS23, DARJ23, RDV+20, RCP+24, RG21, RSPJ21, RTRB21, SY20, SMB20, SXW+20, SDL+21, SC22, SOH+23, UMA21, VCF22, VvBTH20, WZZ+23, YT23, YHY+21, YLH+20, ZRH21, ZHM21]. **calculator** [ABH+23, FCTFR20, Kut24, MBTB21, UAS22]. **calculus** [BSK+22, CLEPF22, KMR22]. **calorimeters** [ABF+23b]. **can** [SWZ23]. **capabilities** [KGT22]. **capability** [FA20a, MCB+20]. **capacitively** [JĎD+21]. **capacity** [LHWX24]. **capsules** [TKC+21]. **capture** [TAE+21]. **Caravel** [ADC+21]. **carbon** [PK24]. **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, 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]. **case** [Jia20, TPS+24]. **catalysts** [RSC+22]. **Catalytic** [KBSH20]. **Causal** [Bel24, CDT22]. **cavities** [BBA+20, DKRSR22]. **CBM** [GBJ+21, SCF20]. **CCA** [TCY+21]. **CCS** [KWK+21]. **CDFTPY** [VCF22]. **CDPDS** [KR23]. **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, 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** [JĎD+21]. **CellListMap.jl** [Mar22]. **cells** [LLR23, ZHM+24]. **cellular** [SYFT23]. **Center** [SMO+20a, BKP22, BJS+23, GDS+21, LM22, MHP23, SSB+23, XQ21].

Kal20, Kar23a, KAB+21, KJL+23, KBH+24, KMU+23, KDK23, KT23, KSIL22, Koz23, Kul20, LOT+20, LG23, LVMGF+23, LDW+21, LJS21, MG22, MFB23, MRH+23, MSU+21, MHP23, MAMK21, MDR+20, NUK+22, NSY+23, NBS+20, NL23b, Nis22, Nor23, Och23a, Och23b, OAP+24, OLNG21, PP23, PLSB22, RMR+22, RCP+24, RV20, RV21, RMFB23, SLK23, SMA24, SP23, SHW+21, SPF21, SZNW23, SW23, TSJ+21, TMC22, TCSD24, UÁEPGBP24]. **code** [WKBW21, WXL+21, XSM22, sXBkB+22, XHY+24, YHH+20, YGSW21, YLK+20, 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]. **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]. **combination** [ADH+20, BRAC23, HT24]. **combinatorial** [JWK+21]. **combined** [ACD+22, LZP+24]. **combining** [LACL24, SHW+21]. **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]. **Comparative** [SKM+21]. **Comparing** [DAA+24]. **Comparison** [NCF+23, TV24, EVMP20, GSLS20]. **Compatibility** [GOCSS+23]. **Compatible** [Sij23, BCD+21]. **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, WZK+24, YMCF23]. **complex-valued** [CL22a]. **complexity** [GJA21]. **component** [BSC+21, DKM+24, HWL+23, YWTK23, Yev21]. **component-based** [HWL+23]. **composites** [BDR+20, FLK+20]. **compound** [NRK+21]. **compounds** [AMP+21]. **comprehensive** [GWA+23]. **compressible** [Bak23, BMSP21, BBA23, BSC+21, Dau23, DAC+23, GSL24, GB22, HMR22, HWL+23, HJGL22, LJH+23, LJS21, PCS+23, RCW+20, SPLD20]. **compression** [LMHUR23, TW21b, VPS23]. **compressional** [YYC+23]. **compressive** [LLH21a]. **Comput** [AAT+20, Ano20c, FAL21, MKPW22,

[ABBD23, ABD+23, BMT23, CS22b, DPR+20, DRR+24, FR20, Gro23, Hid21, LM23, Nog21a, Nog21b, NVC20, SC20, SSV22, WW21, 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, KKLZ23a, KKLZ23b, KLD+21, KLMU21, KNJ+23, KW23, LGBJ20, LMX+21, LCL+23, LHTP+24, MM23, MT23, NRG22, NRG24, TCY23, WMA+22, WYT23, Yan21a, YK21a, YYY22, 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** [RMR+22]. **filter** [BDGS21, CJ21, WHSG24]. **filtering** [LYC20, PP21]. **final** [ABWZ23, DDM20, SAS20]. **find** [MRT+22, NKP20]. **FindBounce** [GNP20]. **finder** [EGKH24]. **finding** [Bar22a, BBB+21]. **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, 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]. **FIPI** [GB20]. **FIRE** [PGS+24]. **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, VB22b]. **fixed-point** [Ano20c, KK16]. **FLAME** [ART+20]. **flat** [SJ21]. **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]. **flight** [WBF+24]. **floating** [SSH+23].

CHY+24, CL21, CB20, CF21, CLEPF23, CCW20, DZZ21, DCZ23, FJ22, FLW+23, FBMD20, FYM+22, GTE21, GLSH21, GRCT20, GB20, 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, LLL24, LLZ+22, LJH+23, LS22, LDGN24, LMHUR23, LVMGF+23, 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, SS21b, TCD20, TTM22, TS23, TLC+21]. **method** [TPCT22, eSdSBST21, WZZS21, WZC21, WWM+22, WA21, WLCF21, WLL22, WPMK21, WS20, WVK21, WNS+21, WYZZ23, XDF20, XSL+22, XFH+22, XLKX21, YT23, YS22, YWM23, YSX+20, YC20, YXX+21, YZHL22, YKK23b, ZPZH20, Zha20, ZPL+24, ZZ21a, ZYX21, ZYX22, Zho23, ZHM21, ZLS+22, ASC+21, GSL24, LMHUR23]. **method-based** [KR23]. **Methodology** [SCMP+22, WBF+24, WZK+24, SFKC22]. **Methods** [LSNRD20, AYB24, BBV+22, BCGT24, CL20, CJ21, DGM20, ELSV24, FYW23, GCWZ20, HAM+20a, HWL+23, IKM+24, JMOC21, KAB+21, KSF+22, KLMU21, KFC+20, KvH21, LHG+20, LH22, MCB+20, NCF+23, PMK+23, PAL+20, PM21, SL22, SKM+21, SDBS24, UZB22, VPS23, YLIO22, YZW21, YWTK23, YK21b, YZZ+23]. **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]. **micromagnetics** [PRS+20]. **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, AAT+14, KKM+20, LXY+21, May21, SSH+23, STRF+20, KM20]. **minimal-lagrangians** [May21]. **minimisation** [PGS+24]. **minimization** [IJVJ21, IUJ21, SAS20, SAN24]. **minimum** [NA20]. **Minkowski** [BMT23]. **Minnesota** [ZXT22, ZXT23]. **minor** [EGKH24]. **Mirheo** [AALK20]. **Misalignment** [Kar22]. **missions** [GSL+23]. **mitigate** [MD20a]. **MiTMoJCo** [Gul20]. **MITNS** [KOF21]. **Mittag** [CLEP24]. **Mittag-Leffler** [CLEP24]. **mixed** [LHC20]. **mixing** [Nog21a, NVCS23]. **mixtures** [LM21a, 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, 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, FJ22, FBA+20, HLCD20, JLW24, JPJ+23,

KLD+21, KDK23, KM23, KW23, KAS24, LL23, LLH21a, LY24, LGK+22, MMC+21, May21, MBCC23, NYN+21, NLS24, NRG24, OBL+21, RBFB20, SYFT23, SKYQ21, SZY+22, SZ23, SOH+23, SJWL22, SW23, TKS22, TCY+21, TCY23, TPK+21, TPCT22, TNL+22, VLS22, VEHCM21, WZZ+23, WYT23, YZL+23, YYH21, YK21a, YX24, YWX+23, ZYLY22, ZGW20, ZSqXY21, Bie21, DDM20, HQRR20, KM20, KMS20b, MAJ20, UMA21]. **Model-Agnostic** [BHK+21]. **Modeling** [BB24b, RSHS24, Sha21, YD20, AHP21, AG21, ART+20, BFL+22, CFW+23, EGLK20, FA20a, FLK+20, GUW+22, HSB+24, HyLF23, HRG+22, JYL+23, KRE22, KNJ+23, LMX+21, LZP+24, LSF23, MK22, MHK24, MMV+24, MYKC23, MT23, MOMO24, NRKA22, NI22, NLS24, PMA+21, PG23, RRC+24, SFKC22, SMC+22, TAB+22, VB22b, Yev21, YMCF23, ZGZW23, ZKZ+24, ZHZ+23]. **modelling** [BVV22, DRM20, LS21a, MBG+20, MVAXP22, Org22, OXOG23, TDR+20, TRB20b, WNS+21, WSK+22, Yan23, Yan24b]. **Models** [GFH23, RMR+22, AES21, BRAC23, CZWE23, CSBF23, EVMP20, FA21, GZW20, GHK20, HTS+21, HSMR+24, Jab24, KPR+24, KC21, KVSC21, LLC+23, Mau20, MD22, MDDI21, NRK+21, OSE+20, PBC+24, RDZ+20, SZ24, 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, MHK24, MBCC23, Ols23, PCS+20, SMO+20a, SKC21, SC22, SSD+22, SZNW23, TCSD24, TRB+20a, VCF22, VXT+23, VvBTH20, Wor20, WS23, ZHI23, ZJS+20, YD20]. **molecule** [PRR23, SHRK22, Xav22]. **molecules** [BGHC23, BFMA+24, BAB+20, Hua24, KSG22, MBJB24, MBG+20, NI22, 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]. **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, LAC21, LTMK21, LLL24, LC24, LHWX24, MMM23, MT23,

FDPT23, KMN21, KBSL22, Koł23, KNJ+23, MMFdL21, 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, MMP+24, SHS22, SLIC24, WZZ+23, YHY+21, ZPL+21]. **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, JWW+23, Kan23, KMS20a, LHWX24, OV23]. **photonic** [DNG+20, KR23, MSH22, WZZS21]. **photons** [MBG+20]. **Phys** [AAT+20, Ano20c, FAL21, MKPW22, MSHP20, Och23a, SJY20, YNV23, ZYX22]. **Physalis** [WS20]. **PHYSBO** [MTY+22]. **physical** [AM21b, JYL+23, 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, LFZ20, PAM24, PBC+24, RGS+21, RSPJ21, SRC21, SHB+20, SZ24, SSD+22, SCT21, TV24, TW21b, VEHCM21, WBF+24, WLL22, WAET22, XLL+22, XHY+24, ZRZ+21, ZDLS21]. **physics-based** [WAET22]. **Physics-Informed** [LY22, RRC+24, WBF+24]. **physiologically** [ZHZ+23]. **physiologically-significant** [ZHZ+23]. **PIC** [Gon22, LOT+20, MT23, MBE+21, YC20]. **picFoam** [KG21]. **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, HM24, JZW+22, MSHP02, MSHP20, YJLW21]. **plane-wave** [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, MMYU22, SMA24, VV21, WLF+23, YC20, YKY+22, ZLL+24].

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Q [ZWC22]. **Q-POP-Thermo** [ZWC22]. **QBMM** [LMHL20]. **QCD** [Dür23, EVFRHR23, FFLR20, FKK+21, HLM22, IKM+23, KM20, KMS20b, 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]. **QSW_MPI** [MW21]. **QTRAJ** [OEI+22].

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[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]. **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]. **underlying** [RZ23]. **UNDI** [BFI+21]. **UnDiFi** [CAC+22]. **UnDiFi-2D** [CAC+22]. **UNED** [COJ+22]. **unfolding** [RMFB23]. **Unified** [ZWP+22, FJ22, FTZ+23, LSW+20, LHG24, STA20, XFH+22]. **Uniform** [JLW24, 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]. **unoccupied** [SLZG20]. **Unravelling** [VPPQ21]. **UNRES** [OCK+24]. **unsaturated** [HRG+22]. **unscented** [AGJ+23]. **unsplit** [LH22, MOV21]. **unstable** [KvdW20, KAB+21, LWhK+20]. **unsteady** [CJZ21, SFS22, YYY22]. **unstructured** [ADF+22, CAC+22, EPM23, KFC+20, 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, SPTPR21, SZY+22]. **Updates** [AJW+21, FQRR22]. **Upgraded** [NUK+22, PMA+21, YZW22]. **URANOS** [DAC+23]. **urban** [YCC22]. **usage** [CHA21]. **use** [MG22, TPS+24, WKBW21]. **used** [KIK20]. **User** [SMB20, WAYL23, BMR+24b, DvHSdS22, HGS20, MMCC+22, WXL+21, YR21]. **user-friendly** [HGS20, MMCC+22, WXL+21]. **User-ready** [SMB20]. **users** [YTC+20]. **usine** [Mau20]. **Using** [MMM23, TAGC22b, ABBD23, Ano20c, ASC+21, 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, 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, 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, WS20, WKJB23, Xav22, XHY+24, YJLW21, YLL+22, ZLV23, dBBVA20]. **utilitarian** [BC22]. **Utility** [DBdFdSR21]. **utilizing** [WHSG24].

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Aiola:2021:HSS

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Aniszewski:2021:PRI

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Aiello:2020:GKG

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Aiello:2024:ESK

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Alexeev:2020:MHP

[AALK20] Dmitry Alexeev, Lucas Amoudruz, Sergey Litvinov, and Petros Koumoutsakos. `Mirheo`: High-performance mesoscale simulations for microfluidics. *Computer Physics Communications*, 254(??):Article 107298, 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(??):Article 108888, 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`. *Computer Physics Communications*, 185(9):2322–2339, September 2014. CODEN CPHCBZ. ISSN 0010-4655 (print), 1879-2944 (electronic). URL `http://www.sciencedirect.com/science/article/pii/S0010465514001386`. See corrigendum [AAT+20].

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(??):Article 107044, May 2020. CODEN CPHCBZ. ISSN 0010-4655 (print), 1879-2944 (electronic). URL `http://www.sciencedirect.com/science/article/pii/S0010465519303753`. See [AAT+14].

Arellano:2021:SSW

[AB21] H. F. Arellano and G. Blanchon. `SWANLOP`: Scattering waves off nonlocal optical potentials in the presence

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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(??):Article 108404, September 2022. CODEN CPHCBZ. ISSN 0010-4655 (print), 1879-2944 (electronic). URL `http://www.sciencedirect.com/science/article/pii/S0010465522001230`.

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Armadillo:2023:EFI

[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(??):Article 108545, January 2023. CODEN CPHCBZ. ISSN 0010-4655 (print), 1879-2944 (electronic). URL `http://www.sciencedirect.com/science/article/pii/S0010465522002648`.

Ananthanarayan:2023:EAD

[ABF+23a] B. Ananthanarayan, Souvik Bera, S. Friot, O. Marichev, and Tanay Pathak. On the evaluation of the Appell F_2 double hypergeometric function. *Computer Physics Communications*, 284(??):Article 108589, March 2023. CODEN CPHCBZ. ISSN 0010-4655 (print), 1879-2944 (electronic). URL `http://www.sciencedirect.com/science/article/pii/S0010465522003083`.

Araujo:2023:LSG

[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(??):Article 108671, May 2023. CODEN CPHCBZ. ISSN 0010-4655 (print), 1879-2944 (electronic). URL `http://www.sciencedirect.com/science/article/pii/S0010465523000164`.

AlAtoum:2020:ETG

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Athron:2023:FAC

[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(??):Article 108584, February 2023. CODEN CPHCBZ. ISSN 0010-4655 (print), 1879-2944 (electronic). URL `http://www.sciencedirect.com/science/article/pii/S0010465522003034`.

Appleby:2022:MFF

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