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## Title word cross-reference

$1/f$  [PGFA14].  $2$  [SZ19].  $2 + 1$  [BTB+10].  $511$  [PBB+11].  $^{12}$  [dGW+17].  $^{16}$  [dGW+17].  $^3$  [GNSW17].  $^2$  [MO11, UBS+16].  $^3$  [KKS+12].  $s$  [RP12].  $^0_s$  [ABL16].  $\alpha$  [THSR17].  $\alpha, \gamma$  [dGW+17].  $B$  [BMV15].  $B_s^0$  [ABL19].  $\bar{t}\bar{t}$  [DG12].  $\beta$  [HSB+18, VWT15].  $\mathcal{PT}$  [KYZ16].  $e^+e^-$  [DESS11].  $\eta$  [BM19, BM19].  $f(R)$  [SF10a].  $N_c$  [MS15].  $p$  [Ama15].  $pp$  [A+11].  $s$  [KGBA11].  $sp^2$  [MSBD16].

**-based** [MSBD16]. **-particle** [THSR17]. **-symmetric** [KYZ16]. **-type** [Ama15].

**125** [BH14].

**65** [Mer17].

**81** [EHM14, Nam10]. **82** [KC19, Pow10b, TS10b]. **83**

[CHT11b, HW11a, KMT11a, SH11b, UHS<sup>+</sup>17]. **84** [AgCMK12b]. **86**  
[BCP<sup>+</sup>14b, TSNK14b, ZJB14b]. **88** [ABL19]. **89** [Giu19].

**90** [GHM<sup>+</sup>22].

**Abrikosov** [VGG18]. **Accelerating** [Sch12, Rie12]. **acceleration** [Per12].  
**accelerators** [CPL<sup>+</sup>13, DZD<sup>+</sup>18, HSXZ14, NBD<sup>+</sup>14]. **Achievement**  
[Wit18]. **acoustics** [FY11]. **acoustofluidics** [FY11]. **across**  
[BRBC<sup>+</sup>12, FZ12]. **active** [MJR<sup>+</sup>13]. **adaptive** [SF10b]. **adherent** [SS13].  
**Adiabatic** [AL18, VRSB17]. **adiabaticity** [GORK<sup>+</sup>19]. **advection**  
[ABB<sup>+</sup>17]. **against** [SÁ16]. **Alfvén** [CZ16]. **algebraic** [CvD10, DG17].  
**algorithms** [CvD10]. **allowed** [HSB<sup>+</sup>18]. **Alternatives** [CGT16].  
**amorphous** [BB11, ERT19, NFMB18]. **ampere** [PSM<sup>+</sup>13]. **amplification**  
[CDG<sup>+</sup>10]. **Amplifying** [NJB12]. **Analogies** [SRHM10]. **analogs**  
[LRW<sup>+</sup>12]. **analysis** [ES10, EFS15]. **analytical** [HSB<sup>+</sup>18]. **Anderson**  
[Var15]. **angle** [MHP<sup>+</sup>19]. **angular** [LBTY17]. **anisotropies** [KAAB<sup>+</sup>18].  
**anisotropy** [DC17]. **annihilation** [GYS10, PBB<sup>+</sup>11, TM13]. **Anniversaries**  
[ST18]. **Announcement** [Ano18]. **Annual** [FLS13]. **Anomalous**  
[KKS19, NSO<sup>+</sup>10, BM19]. **anomaly** [BH13]. **ansatz** [GBL13].  
**Antiferroelectric** [TGC10]. **Antiferromagnetic** [BMT<sup>+</sup>18, Dai15].  
**apertures** [GVMMEK10]. **Application** [KVN12, Mou19]. **applications**  
[ATE<sup>+</sup>14, CHT11a, CHT11b, CBTW17, DC17, DMM<sup>+</sup>14, GORK<sup>+</sup>19,  
KKS<sup>+</sup>12, KSLUS18, MMY<sup>+</sup>12, PRV19, SGOMF13]. **approach** [MSH<sup>+</sup>12].  
**APS** [Mey17, Wit18]. **Area** [ECP10]. **article** [Wit18]. **Artificial**  
[DGJÖ11, NMS13]. **aspects** [GT10, Hin12]. **assembled** [SW10].  
**Astromaterial** [CH17]. **astronomy** [A<sup>+</sup>13]. **astrophysical** [HL11].  
**astrophysics** [AD10, KZ11, LFR19]. **astrophysics-relevant** [LFR19].  
**Asymmetries** [ASAJPV15]. **atmospheric** [Kaj16]. **atom**  
[CGI<sup>+</sup>19, ES10, SW10, TJG<sup>+</sup>19]. **Atomic**  
[CLW<sup>+</sup>19, AHV13, BLHE12, CB17, CJC10, DD11, FSRD13, HSP10, HW11a,  
HW11b, LBY<sup>+</sup>15, PSO<sup>+</sup>18, SSdRG11]. **atomically** [WCG<sup>+</sup>18]. **atomistic**  
[CCSM19]. **atoms** [CDGT<sup>+</sup>18, CFRMS19, CDS19, DGJÖ11, HNS13,  
LMD<sup>+</sup>13, Met17, RR15, RDBE13, SWM10, SBD<sup>+</sup>18, TBC<sup>+</sup>16]. **attachment**  
[GYS10]. **Attosecond** [PNB15]. **autoionization** [ACM10]. **axion** [BZ19].  
**Axions** [KC10, KC19].

**B** [ABL16]. **Background** [Nak15, KAAB<sup>+</sup>18]. **bands** [CDS19]. **bang**  
[CFOY16]. **barrier** [BBS12]. **Baryon** [KR10, MS15]. **baryons** [OSZ18].  
**based** [Dai15, DDGS15, DZD<sup>+</sup>18, MSBD16, RR15, SSdRG11]. **Basics**  
[DMM<sup>+</sup>14]. **basis** [DC11]. **Bayesian** [FS13, vT11]. **Beam** [HSXZ14, Ama15].  
**Beams** [LBTY17, GIF<sup>+</sup>19]. **BEH** [Eng14]. **behavior** [MD18]. **Bell**  
[Mer16, Mer17, BCP<sup>+</sup>14a, BCP<sup>+</sup>14b, Mer93]. **benefits** [SESE10]. **bent**  
[JLS18]. **bent-shaped** [JLS18]. **Bernal** [TS10b, TS10a]. **Berry** [XCN10].  
**Beta** [AHV13]. **Beta-delayed** [AHV13]. **Bethe** [GBL13]. **between**

[HSP10, SRHM10]. **Beyond** [ISG12, ASG<sup>+</sup>16, DeG16, GMN<sup>+</sup>19, LRW<sup>+</sup>12, OANR<sup>+</sup>19, RHT<sup>+</sup>18, TS10a, TS10b, VRSB17]. **Big** [CFOY16]. **billiards** [JS17]. **binaries** [CBKvM10]. **binding** [DZ10]. **biology** [BMS19, FKLW19, KT15]. **Biophysical** [Gol14]. **birth** [ACM10, Lal14]. **bits** [SPM<sup>+</sup>10]. **Black** [CBKvM10, Bam17, GEG10, Har16, KZ11]. **Black-hole** [CBKvM10]. **blue** [Aka15, Nak15]. **body** [AABS19, GGPR17, HNS13]. **bones** [BK10]. **bootstrap** [PRV19]. **Born** [TBC<sup>+</sup>16]. **Bose** [DHY10, SKU13, ZJB14a, ZJB14b]. **boson** [BH14, Eng14, SRHM10]. **bosons** [CCG<sup>+</sup>11]. **bound** [GYS10]. **boundary** [Har13, MBC<sup>+</sup>12]. **bounds** [dRDTZ17]. **box** [Har13]. **brain** [TB18]. **breaking** [Nam09, Nam10, SH13]. **buffer** [Ama15]. **built** [CDGT<sup>+</sup>18]. **bunched** [GIF<sup>+</sup>19]. **bundles** [PHC10]. **burning** [CZ16, dGW<sup>+</sup>17]. **bursts** [MM12].

**C** [dGW<sup>+</sup>17]. **calculations** [FGH<sup>+</sup>14]. **calculus** [Wes14]. **caliber** [PGLD13]. **calorimetry** [LLW18, SWK<sup>+</sup>16]. **candidates** [Bam17]. **carbon** [LKS<sup>+</sup>15, MPG13, MSBD16]. **Carlo** [CGP<sup>+</sup>15, GML<sup>+</sup>11]. **Carrier** [UHS<sup>+</sup>11, UHS<sup>+</sup>17]. **case** [MO11, Nam09, Nam10]. **Casimir** [MD18, WDT<sup>+</sup>16]. **cat** [Win13]. **Cavity** [AKM14, RR15, RDBE13]. **Cavity-based** [RR15]. **cavity-generated** [RDBE13]. **CCD** [Boy10, Smi10]. **cells** [Bet15, SS13]. **Center** [GEG10]. **centuries** [Kao10]. **chain** [A<sup>+</sup>11]. **chains** [CLW<sup>+</sup>19]. **change** [McD16]. **channels** [CGLM14]. **chaos** [CW15, MRW10]. **chaotic** [ABB<sup>+</sup>17]. **characterization** [MBSR<sup>+</sup>18]. **Charge** [LPT10, Phi10]. **charged** [KSLUS18]. **chemical** [AAL<sup>+</sup>10]. **chemistry** [BMS19, VRSB17]. **Chief** [Mey17]. **chiral** [BH13]. **choice** [sMKZ16]. **chronoscopy** [PNB15]. **circuits** [NJBN12, XAYN13]. **classical** [Car14, DS12, Har13, MBC<sup>+</sup>12, SF10b]. **classical-quantum** [MBC<sup>+</sup>12]. **Classification** [CTSR16]. **clathrates** [TSNK14a, TSNK14b]. **clocks** [DK11, KSLUS18, LBY<sup>+</sup>15]. **closed** [PSSV11]. **Cluster** [EDM13, FMBT<sup>+</sup>10, FW13, GEG10, GGPR17]. **clustering** [FHKE<sup>+</sup>18]. **clusters** [HGH<sup>+</sup>12, VGG18]. **CNO** [A<sup>+</sup>11]. **coarse** [CCSM19]. **CODATA** [MTN12]. **coexistence** [HW11a, HW11b]. **coherence** [FS13, SAP17]. **Coherent** [BBF<sup>+</sup>16, FSRD13]. **Cold** [RDBE13, TJG<sup>+</sup>19, VCTL<sup>+</sup>12, HNS13]. **collapse** [BLS<sup>+</sup>13, Bur13]. **Collective** [MD18, SE11]. **Collider** [KNS<sup>+</sup>19]. **colliders** [ASAJPV15, FGN10]. **collisions** [DESS11, Shu17]. **colloidal** [ZMB17]. **colloids** [MD18]. **Colloquium** [AABS19, AgCMK12a, AgCMK12b, APV12, AWBF<sup>+</sup>16, ACM10, BFL<sup>+</sup>14, BSVH18, BMV15, BP12, BZ19, BLPV16, BK10, BR19, Bur13, BLW14, CHT11a, CH17, CFM<sup>+</sup>14, CDGT<sup>+</sup>18, CLW<sup>+</sup>19, DGJÖ11, DG17, DS12, DK11, DZ10, DMM<sup>+</sup>14, DM10, DD11, ERT19, ECP10, EF15, FKT15, GMN<sup>+</sup>19, Gol14, GK18, Gra15, GWY<sup>+</sup>18, HNS13, HL11, HK10, Hoh10, HGH<sup>+</sup>12, KKS19, KT15, KVNf12, KKY18, LLP19, LSK14, LRW<sup>+</sup>12, LL19, MJT15, Met17, Muñ18, MO11, NJBN12, OANR<sup>+</sup>19, OBN16, Per10, Phi10, PSSV11, RWF17, Rur10, SZ19, SH13, Sch17, SH11a, SE11, SPM<sup>+</sup>10, SG10, SW10, SKKG10, SAP17, SÁ16, TB18, THSR17, UBS<sup>+</sup>16, VMU<sup>+</sup>13,

WCG<sup>+18</sup>, WAC<sup>+16</sup>, Wen17, Wes14, WG11, ZMB17, ZC13, vHZ10, A<sup>+13</sup>, AHV13, CHT11b, EDM13, FSRD13, FLS13, LMD<sup>+13</sup>, NMS13, SH11b). **color** [ACC<sup>+14</sup>]. **columns** [Gra15]. **common** [Sca12]. **communication** [BCMdW10]. **Comparison** [HL11]. **Compass** [NvdB15]. **Complex** [SGOMF13, LB16, PSCVV15, RG17]. **complexes** [JM18]. **Complexity** [ST11, BCMdW10, TGC10, Wes14]. **Compound** [EBD<sup>+12</sup>]. **Compound-nuclear** [EBD<sup>+12</sup>]. **compounds** [Ste11]. **computation** [AL18]. **Concepts** [GORK<sup>+19</sup>, JWN<sup>+14</sup>, KT15]. **condensate** [THSR17]. **condensation** [DHY10, ZJB14a, ZJB14b]. **condensed** [BDB<sup>+17</sup>, CCG<sup>+11</sup>, CCSM19]. **conditions** [MMPC12]. **conduction** [MPG13]. **confinement** [OBC<sup>+14</sup>]. **conformal** [HHSV17, PRV19]. **connection** [BM19]. **considerations** [Var15]. **consistent** [Hoh10]. **constants** [MTN12]. **constraints** [LL19]. **Continuous** [GML<sup>+11</sup>]. **Continuous-time** [GML<sup>+11</sup>]. **continuum** [RWF17]. **Control** [LB16, TB18, RG17, Sun14]. **Controlling** [Har13]. **controversial** [AWBF<sup>+16</sup>]. **Core** [KA12, Bur13]. **core-collapse** [Bur13]. **correction** [Ter15]. **Corrections** [Ano18, SF13]. **correlated** [BAvdM<sup>+11</sup>, MSH<sup>+12</sup>, SKKG10]. **correlation** [BLHE12]. **correlations** [CFM<sup>+14</sup>, HMPW17, MBC<sup>+12</sup>, RHT<sup>+18</sup>]. **cosmic** [KAAB<sup>+18</sup>, LSS11, Per12]. **cosmological** [CG10]. **cosmology** [DS11]. **Coulomb** [NL16]. **counting** [EHM09, EHM14]. **coupled** [Shu17, SGOMF13]. **Coupling** [SPMS17, FDLR<sup>+19</sup>]. **CP** [KC19, ABL16, ABL19, BFJ12, KC10]. **CPT** [KR11]. **critical** [MD18]. **Criticality** [Muñ18]. **cross** [A<sup>+11</sup>, EBD<sup>+12</sup>, FZ12, Nam09, Nam10, TBC<sup>+16</sup>]. **Crystal** [MPLS10, MTA<sup>+17</sup>, TSNK14a, TSNK14b]. **Crystalline** [ACC<sup>+14</sup>]. **crystals** [AgCMK12a, AgCMK12b, CB17, JLS18, TGC10]. **cuprates** [AFG10]. **Current** [KUP<sup>+12</sup>, Kam19, PSM<sup>+13</sup>]. **curved** [TVN10]. **cycles** [A<sup>+11</sup>].

**D** [RP12, SZ19]. **dark** [Bar10, BH18, FLS13]. **Data** [KR11]. **decay** [VWT15]. **decays** [CEN<sup>+12</sup>, PKGR12, RP12, ZC13]. **Defect** [TM13]. **defects** [AgCMK12a, AgCMK12b, FGH<sup>+14</sup>, Kos17]. **definition** [PSM<sup>+13</sup>]. **Deformation** [NFMB18]. **degenerate** [SE11]. **delay** [SGOMF13]. **delay-coupled** [SGOMF13]. **Delayed** [sMKZ16, AHV13]. **Delayed-choice** [sMKZ16]. **Delocalized** [JM18]. **demixing** [KAHN10]. **Densities** [EDM13]. **Density** [Jon15]. **dependent** [JWN<sup>+14</sup>]. **deposited** [Ama15]. **description** [HSB<sup>+18</sup>]. **design** [HSXZ14]. **Designing** [NMS13]. **detection** [Adh14]. **detectors** [AD10]. **developments** [BEJR14]. **device** [JWN<sup>+14</sup>]. **devices** [Dor10]. **Diagnostics** [DZD<sup>+18</sup>]. **diagram** [ANT16]. **Diagrammatic** [RHT<sup>+18</sup>]. **dichalcogenides** [WCG<sup>+18</sup>]. **Dielectric** [CW15, NBD<sup>+14</sup>]. **diffusion** [FSRD13]. **Dilute** [DO14, SBK<sup>+10</sup>]. **dimension** [GBL13]. **dimensional** [AMV18, CCG<sup>+11</sup>, GWY<sup>+18</sup>, ISG12, MSBD16, RWF17, SAHR11, SKKG10]. **diodes** [Nak15, RTLL13]. **dipole** [CFRMS19, HvNCR10]. **Dirac** [AMV18]. **directed** [EFS15]. **Disclination** [AgCMK12a, AgCMK12b]. **Discord**

[MBC<sup>+</sup>12]. **Discovery** [Kaj16, BH14, Wei18]. **Discrete** [AF10]. **disk** [Sel14]. **distant** [Sch12]. **distribution** [HR10]. **distributions** [EDM13]. **DNA** [Dor10]. **Domain** [CSRS12]. **Domains** [JS17]. **doped** [AFG10, DSF<sup>+</sup>15, Phi10]. **doping** [Ama15]. **dots** [LMS15, UMA<sup>+</sup>13]. **drag** [NL16]. **drifting** [UBS<sup>+</sup>16]. **driven** [BLHE12, FMBT<sup>+</sup>10, FY11, SH13]. **droplets** [SRHM10]. **drum** [ST11]. **drums** [GT10]. **Dual** [LLW18, RCR12]. **Dual-readout** [LLW18]. **due** [MD18]. **Dynamic** [Sag11]. **dynamical** [ATE<sup>+</sup>14, Muñ18, RDBE13, RHT<sup>+</sup>18, RCR12, SPMS17]. **Dynamics** [Pow10a, SGOMF13, dVA17, BLPV16, Car14, CG10, Dai15, DeG16, FMBT<sup>+</sup>10, KVNF12, PSSV11, SKU13, Sun14, TB18, UHS<sup>+</sup>11, UHS<sup>+</sup>17, Pow10b].

**early** [Smi10]. **Earth** [BK10]. **earthquakes** [KHK<sup>+</sup>12]. **ecological** [ASG<sup>+</sup>16]. **Editor** [Mey17]. **Editorial** [KAB<sup>+</sup>19, Kam19, Mey17, ST18, Spr14]. **Edwards** [BMHM18]. **EeV** [FZ12]. **effect** [NSO<sup>+</sup>10]. **effects** [BSVH18, CGLM14, SVW<sup>+</sup>15, XCN10]. **efficient** [Nak15]. **Einstein** [ZJB14b, DHY10, ZJB14a]. **elastic** [PHC10]. **elastoplastic** [NFMB18]. **Electric** [CFRMS19, BKRB15]. **electric-field** [BKRB15]. **Electrodynamics** [BAvdM<sup>+</sup>11]. **electromagnetic** [Bam17, GS15]. **electromagnetism** [LLP19]. **Electron** [Giu17, KUP<sup>+</sup>12, LBTY17, Ama15, AFG10, BAvdM<sup>+</sup>11, DZD<sup>+</sup>18, GIF<sup>+</sup>19, PSM<sup>+</sup>13, PMR16, SE11, SKKG10, TSNK14a, TSNK14b, UBS<sup>+</sup>16, dA10, Giu19]. **electron-crystal** [TSNK14a, TSNK14b]. **electron-doped** [AFG10]. **Electron-Electron** [KUP<sup>+</sup>12]. **Electronic** [CCSM19, Goe11, SAHR11, SW10, LRW<sup>+</sup>12, RS10, Rur10, XCN10]. **electronics** [ZDM<sup>+</sup>13]. **electrons** [BBB<sup>+</sup>12, HSXZ14]. **electrophoresis** [Dor10]. **electroweak** [HNW12, SF13]. **elegantly** [Kam19]. **Elementary** [HvNCR10, AvVD<sup>+</sup>11, CGT16]. **elements** [GMN<sup>+</sup>19, GMKOP12]. **Emergent** [CFM<sup>+</sup>14, OANR<sup>+</sup>19]. **emission** [GIF<sup>+</sup>19, PBB<sup>+</sup>11]. **emitting** [Nak15, RTLL13]. **energetic** [CZ16]. **energy** [Ama15, A<sup>+</sup>13, FGN10, FZ12, HNW12, LLP19, LSS11]. **engineering** [KVNF12]. **enhanced** [BAB<sup>+</sup>18]. **ensembles** [HSP10, PSO<sup>+</sup>18, SSdRG11]. **entangled** [BMV15]. **Entanglement** [Nis18, AABS19, BAB<sup>+</sup>18, ECP10, PCL<sup>+</sup>12, Win13, Wit18]. **Entropic** [CBTW17]. **entropy** [ECP10, Nis18, PGLD13]. **environmental** [SÁ16]. **Epidemic** [PSCVV15]. **epigenetics** [CBC<sup>+</sup>16]. **equation** [WAC<sup>+</sup>16]. **equilibrium** [MPLS10, SH13]. **era** [CGI<sup>+</sup>19]. **Erratum** [BM16, CHT11b, EHM14, Giu19, GHM<sup>+</sup>22, KC19, KKR16, Mer16, Mer17, UHS<sup>+</sup>17, ZJB14b]. **error** [BLW14, Ter15]. **Essential** [SPM<sup>+</sup>10]. **Ettore** [ACM10]. **eV** [FZ12]. **Evading** [Hig14]. **events** [DG12]. **evidence** [OSZ18]. **evolution** [KAHN10, LL19, NS11, Sel14]. **evolving** [ERT19]. **Exceptional** [Wit18]. **excitations** [AvVD<sup>+</sup>11, FW13, HMPW17, HvNCR10, RS10, dA10]. **Exciton** [DHY10]. **Exciton-polariton** [DHY10]. **Excitons** [WCG<sup>+</sup>18, JM18]. **exoplanets** [LL19]. **expansion** [CG10, Per12, Sch12]. **Experiment** [TM13].

**Experimental** [Nag17, OSZ18, SWK<sup>+</sup>16, BLS<sup>+</sup>13]. **Experiments** [Sag11, TSNK14a, TSNK14b, CGI<sup>+</sup>19, GBL13, sMKZ16]. **explored** [JWN<sup>+</sup>14]. **Exploring** [LFR19, Har13]. **extension** [Boy10]. **Extreme** [Mou19, MMPC12]. **Extremely** [DMHK12].

**facilities** [LFR19]. **Failed** [KKS19]. **Failure** [BK10, PHC10]. **Fano** [MFK10]. **far** [SH13]. **Fascinated** [Aka15]. **fast** [Kao10]. **Femtosecond** [CPL<sup>+</sup>13]. **Fermi** [GBL13]. **Fermion** [Wit16, MSH<sup>+</sup>12, SRHM10]. **fermions** [Bee15, EF15]. **ferromagnetic** [DO14]. **ferromagnets** [BBGK16a, BBGK16b]. **fertilization** [Nam09, Nam10]. **Feshbach** [CGJT10]. **few** [GGPR17]. **few-body** [GGPR17]. **fiber** [MTA<sup>+</sup>17, PHC10]. **field** [ANT16, ATE<sup>+</sup>14, BSVH18, BKRB15, Goe11, HHSV17, KKY18, PZ10, RHT<sup>+</sup>18, RL10, Wit18]. **fields** [RG17]. **fifty** [BR19]. **filaments** [Gra15, Pow10a, Pow10b]. **films** [KKS<sup>+</sup>12]. **final** [NW14]. **First** [FGH<sup>+</sup>14, SBK<sup>+</sup>10, BBF<sup>+</sup>16, Giu17, Giu19, KT15, MM12]. **First-principles** [FGH<sup>+</sup>14, SBK<sup>+</sup>10]. **fission** [AHV13]. **five** [BBF<sup>+</sup>16]. **Flatland** [Nov11]. **flavor** [AF10, McD16]. **flavors** [BTB<sup>+</sup>10]. **flight** [Sun14]. **flow** [DD11, JBSB<sup>+</sup>16, LRW<sup>+</sup>12, NFMB18, SWK<sup>+</sup>16, Var15]. **flows** [ST11]. **Fluctuation** [VGG18, BDG<sup>+</sup>15, CHT11a, CHT11b, EHM09, EHM14]. **fluctuations** [EHM09, EHM14]. **fluid** [Pow10a, Pow10b]. **fluids** [CC13, SE11, SKKG10]. **followed** [Ama15]. **forces** [HNS13, Met17]. **formation** [GGPR17, KPZ<sup>+</sup>19, ST11]. **Forward** [KAB<sup>+</sup>19]. **Foundations** [CHT11a, CHT11b, Moe15]. **Fractional** [LLP19, Wes14]. **fracture** [KHK<sup>+</sup>12]. **fragility** [FSD<sup>+</sup>18]. **free** [PMR16]. **free-electron** [PMR16]. **freely** [Hel15]. **frequency** [HL11, LB19]. **friction** [KHK<sup>+</sup>12, VMU<sup>+</sup>13]. **frontier** [HNW12]. **Frontiers** [ABB<sup>+</sup>17]. **frustration** [NMS13, OANR<sup>+</sup>19]. **function** [BLS<sup>+</sup>13]. **Functional** [MSH<sup>+</sup>12, Jon15]. **functions** [HR10, MMY<sup>+</sup>12, SPMS17]. **fundamental** [DMHK12, KSLUS18, MTN12]. **fusion** [A<sup>+</sup>11, BEJR14]. **future** [Jon15, Kao10, MJT15].

**Ga** [JWN<sup>+</sup>14]. **Galactic** [GEG10]. **galaxies** [Sel14]. **Galaxy** [CCdJ<sup>+</sup>14, PBB<sup>+</sup>11]. **gamma** [MM12]. **GaN** [Ama15]. **gases** [CCG<sup>+</sup>11, CGJT10, GBL13, MCD<sup>+</sup>18, SKU13, VCTL<sup>+</sup>12]. **gauge** [DGJÖ11]. **Gaussian** [WPGP<sup>+</sup>12]. **gedanken** [sMKZ16]. **generated** [OBN16, RDBE13]. **Generating** [Str19]. **generators** [HCGE17]. **Genetic** [KAHN10]. **genetics** [NS11]. **Geometry** [Gra15]. **GeV** [BH14]. **Ginzburg** [RL10]. **glass** [AWBF<sup>+</sup>16, BB11, TSNK14a, TSNK14b]. **glasses** [PZ10]. **global** [CG10, ES10]. **glue** [BM19]. **gluon** [Shu17]. **Goldstone** [Hig14]. **Google** [EFS15]. **graining** [CCSM19]. **granular** [BMHM18, Goll14]. **Graphene** [BFL<sup>+</sup>14, KUP<sup>+</sup>12, Nov11, Gei11, Goe11, Per10, SAHR11]. **Gravitational** [Adh14, A<sup>+</sup>13, Bar18, CBKvM10, Tho18, Wei18]. **Graviton** [dRDTZ17, GN10]. **gravity** [BBS12, Hin12, SF10a]. **Gripped** [DZ10]. **group** [MSH<sup>+</sup>12, Nis18]. **groups** [RCR12]. **Growth** [Ama15, EDM13].

**H** [UBS<sup>+</sup>16]. **Hadron** [DESS11, HH10, KNS<sup>+</sup>19, ASAJPV15, FH12]. **Hadronic** [GHM<sup>+</sup>18, RP12, NW14, GHM<sup>+</sup>22]. **Hadronization** [Alb10]. **Hadrons** [APV12]. **Hall** [HHSV17, NSO<sup>+</sup>10, SVW<sup>+</sup>15]. **hard** [PZ10, TS10a, TS10b]. **hard-particle** [TS10a, TS10b]. **harvesting** [JM18]. **Hearing** [GT10]. **Heat** [DD11, LRW<sup>+</sup>12]. **Heavy** [SESE10, BEJR14, CNRS18, OSZ18, Shu17]. **Heavy-ion** [SESE10, BEJR14]. **helium** [MMPC12, Var15, dGW<sup>+</sup>17]. **HERA** [NW14]. **Hermitian** [CW15]. **heteronanotubes** [AAL<sup>+</sup>10]. **Hidden** [Car14, Mer93, MO11, Mer16, Mer17]. **Hierarchies** [HHSV17]. **Higgs** [BH14, CGT16]. **High** [GK18, HSB<sup>+</sup>18, A<sup>+</sup>13, DMHK12, DMPZ12, FGN10, FKT15, LLP19, MCD<sup>+</sup>18, RS10, Str19]. **high-energy** [A<sup>+</sup>13, FGN10, LLP19]. **high-intensity** [DMHK12, Str19]. **higher** [BBS12]. **higher-spin** [BBS12]. **Highly** [KSLUS18]. **historical** [SF13]. **History** [BH18, Smi10]. **hole** [Bam17, CBKvM10, GEG10]. **holes** [Har16, KZ11]. **Holography** [Nis18]. **Homochirality** [SH13]. **Hoyle** [THSR17]. **Hybrid** [MTA<sup>+</sup>17, XAYN13, TJG<sup>+</sup>19]. **Hydrodynamics** [MJR<sup>+</sup>13]. **hydrogen** [ES10, MMPC12]. **hypothesis** [SH11a, SH11b].

**Ice** [BRBC<sup>+</sup>12, OANR<sup>+</sup>19, NMS13]. **icefields** [BRBC<sup>+</sup>12]. **identification** [TM13]. **Identifying** [Phi10]. **II** [A<sup>+</sup>11, Bar18, RL10]. **III** [Tho18]. **Imaging** [BBB<sup>+</sup>12, Moe15, NMS13]. **implementations** [FSD<sup>+</sup>18]. **Implications** [PGFA14, dGW<sup>+</sup>17]. **improved** [BTB<sup>+</sup>10]. **impurity** [GML<sup>+</sup>11]. **induced** [HTB<sup>+</sup>17]. **Inelastic** [RS10, AvVD<sup>+</sup>11]. **inference** [vT11]. **Influence** [CG10]. **information** [Har16, PGFA14, SWM10, SÁ16, WPGP<sup>+</sup>12]. **infrared** [KAAB<sup>+</sup>18]. **InGaN** [Nak15]. **initial** [DESS11]. **Insect** [Sun14]. **Insights** [NFMB18, SPMS17]. **instabilities** [GMKOP12, SW10]. **insulators** [HK10, Phi10, QZ11]. **integrals** [Wit16]. **intense** [OBN16]. **intensity** [DMHK12, Str19]. **interacting** [PSSV11, RWF17, XAYN13]. **interaction** [FDLR<sup>+</sup>19, Sca12, SPMS17]. **Interactions** [KUP<sup>+</sup>12, DG17, DMHK12, FPP<sup>+</sup>10, GS15, Giu17, Giu19, GMP17, GYS10, MD18, SE11, WDT<sup>+</sup>16]. **Interface** [HTB<sup>+</sup>17, BMS19, HSP10, Sch13]. **Interface-induced** [HTB<sup>+</sup>17]. **interfaces** [CFM<sup>+</sup>14, DC17, Sag11]. **Interfacing** [LMS15]. **interference** [HGH<sup>+</sup>12]. **interferometry** [Adh14, PCL<sup>+</sup>12]. **Intermittent** [BLMV11]. **Interplay** [TGC10]. **intertwined** [FKT15]. **intracellular** [BN13]. **Introduction** [CDG<sup>+</sup>10, Hoh10, Per10]. **invention** [Nak15, Smi10]. **investigation** [UMA<sup>+</sup>13]. **Invited** [Wit18]. **Ion** [BKR15, BEJR14, CNRS18, SESE10, Shu17, TJG<sup>+</sup>19]. **Ion-trap** [BKR15]. **Ionic** [SZ19]. **ionization** [BLHE12]. **ions** [DM10, KSLUS18, SPM<sup>+</sup>10]. **iron** [Dai15, Ste11]. **iron-based** [Dai15]. **irradiation** [Ama15]. **isospentrality** [GT10]. **itself** [BK10].

**Jammed** [TS10a, BMHM18, TS10b]. **jamming** [PZ10]. **Jeans** [VGG18]. **Jerusalem** [Har16]. **Jet** [CNRS18, KNS<sup>+</sup>19]. **John** [Mer16, Mer17, Mer93]. **journal** [Lal14]. **journeys** [Aka15]. **junctions** [DD11].

**Kaon** [CEN<sup>+</sup>12]. **kaonic** [CGI<sup>+</sup>19]. **Kepler** [TS10b, TS10a]. **keV** [PBB<sup>+</sup>11]. **kinematics** [CG10].

**laboratory** [LFR19]. **Landau** [DMPZ12, RL10]. **large** [MS15, KNS<sup>+</sup>19]. **Laser** [FMBT<sup>+</sup>10, HSXZ14, LMD<sup>+</sup>13, Adh14, BLHE12, CPL<sup>+</sup>13, DMHK12, NBD<sup>+</sup>14]. **Laser-driven** [FMBT<sup>+</sup>10, BLHE12]. **laser-plasma** [CPL<sup>+</sup>13]. **lasers** [PMR16, SGOMF13]. **Lattice** [DeG16, GMKOP12, BDY18, DK11, FH12]. **lattices** [CDGT<sup>+</sup>18, KMT11a, KMT11b]. **laws** [ECP10]. **layer** [Ama15]. **learning** [CCC<sup>+</sup>19]. **Lecture** [Aka15, Ama15, Bar18, Bet15, Eng14, Hal17, Hel15, Hig14, Kos17, Moe15, Nak15, Nam10, Tho18, Wei18, Boy10, Gei11, Har13, Kaj16, Kao10, McD16, Mou19, Nam09, Nov11, Per12, Rie12, Sch12, Smi10, Str19, Win13]. **lectures** [Har16]. **Leptonic** [BFJ12]. **level** [LPT10]. **levels** [DMPZ12]. **Lévy** [ZDK15]. **LHC** [GS18, GMP17]. **Life** [Sch13, LL19]. **lifetime** [BH13, WG11]. **Light** [BBF<sup>+</sup>16, FH12, GVMMEK10, RG17, Aka15, CC13, CGI<sup>+</sup>19, DZ10, FDLR<sup>+</sup>19, FHKE<sup>+</sup>18, HSP10, Hel15, JM18, LMD<sup>+</sup>13, Met17, Mou19, Nak15, RTLL13]. **light-emitting** [RTLL13]. **light-harvesting** [JM18]. **light-matter** [FDLR<sup>+</sup>19]. **LIGO** [Bar18, Tho18, Wei18]. **limits** [GN10, PKGR12]. **Linac** [BBF<sup>+</sup>16]. **linear** [KAHN10, SSdRG11]. **lines** [JS17]. **Liquid** [AD10, AgCMK12a, AgCMK12b, ISG12, JLS18, TGC10, ZKN17]. **liquids** [ISG12, MCD<sup>+</sup>18]. **lived** [HMPW17]. **living** [Muñ18, ZMB17]. **local** [BBB<sup>+</sup>12, CG10]. **localization** [AABS19]. **localized** [DG17, MMY<sup>+</sup>12]. **Long** [FPP<sup>+</sup>10]. **Looking** [KAB<sup>+</sup>19, KAAB<sup>+</sup>18, SG10]. **loops** [AgCMK12a, AgCMK12b]. **Lorentz** [KR11]. **low** [Ama15, MSBD16]. **low-dimensional** [MSBD16]. **low-energy** [Ama15]. **low-temperature** [Ama15]. **Luttinger** [ISG12].

**Machine** [CCC<sup>+</sup>19]. **Macroscopic** [BDG<sup>+</sup>15, FSD<sup>+</sup>18]. **Magnetic** [FW13, GGG10, HvNCR10, MHP<sup>+</sup>19, YKJ10, ANT16, DC17, Goe11, KKR10, KKR16, NMS13, RL10, SBK<sup>+</sup>10]. **magnetism** [MO11, SKU13, HTB<sup>+</sup>17]. **magnetohydrodynamics** [LFR19]. **magnets** [ZJB14a, ZJB14b]. **magnon** [ZC13]. **Majorana** [ACM10, Bee15, EF15]. **man** [Boy10]. **Manipulating** [LRW<sup>+</sup>12]. **manipulation** [HSXZ14, KKR10, KKR16]. **Many** [AABS19]. **Many-body** [AABS19]. **Markovian** [BLPV16, dVA17]. **mass** [GN10, MJT15, UBS<sup>+</sup>16, dRDTZ17]. **masses** [CCdJ<sup>+</sup>14, FH12]. **massive** [GEG10, Hin12, MM12]. **Materials** [MBSR<sup>+</sup>18, Nov11, WDT<sup>+</sup>16, BAvm<sup>+</sup>11, BB11, BDB<sup>+</sup>17, GWY<sup>+</sup>18, MPG13, SZ19]. **Mathematical** [GT10]. **matrices** [MRW10]. **matrix** [Bee15, EFS15]. **matter** [BMHM18, BH18, BDB<sup>+</sup>17, CCG<sup>+</sup>11, CDGT<sup>+</sup>18, CTSR16, CCSM19, ERT19, FDLR<sup>+</sup>19, FLS13, Hal17, KPZ<sup>+</sup>19, LLP19, MJR<sup>+</sup>13, Nag17, Sag11, Wen17, ZMB17]. **Maximally** [MMY<sup>+</sup>12]. **maximum** [PGLD13]. **Mean** [PZ10, ATE<sup>+</sup>14, BLW14, RHT<sup>+</sup>18].

**Mean-field** [PZ10, ATE<sup>+</sup>14]. **measurement** [BLW14, CDG<sup>+</sup>10]. **measurements** [BH13, BAB<sup>+</sup>18, BKRB15, CNRS18, EBD<sup>+</sup>12]. **Measures** [FSD<sup>+</sup>18, MBC<sup>+</sup>12]. **Measuring** [Per12, WAC<sup>+</sup>16]. **mechanics** [ASG<sup>+</sup>16, BMHM18, EWKK14]. **mechanism** [Eng14]. **mechanisms** [SPMS17]. **Medal** [Wit18]. **media** [FSRD13, Gol14, RG17]. **medium** [HH10]. **meets** [RG17]. **membranes** [Pow10a, Pow10b]. **memories** [Ter15]. **Memory** [KPZ<sup>+</sup>19, CGLM14]. **meson** [RP12]. **mesons** [BM19, BMV15, OSZ18]. **mesoscale** [VMU<sup>+</sup>13]. **Mesoscopic** [BMS19, RG17]. **metal** [DC17, WCG<sup>+</sup>18]. **metal/oxide** [DC17]. **Metallic** [BBGK16a, GMKOP12, BBGK16b]. **metals** [DSF<sup>+</sup>15, KKS19]. **metamaterials** [LSK14]. **metastable** [VCTL<sup>+</sup>12]. **methods** [CGP<sup>+</sup>15, GORK<sup>+</sup>19, GML<sup>+</sup>11, SF10b]. **metrology** [PSO<sup>+</sup>18]. **Mg** [Ama15]. **microcavities** [CW15]. **microfabricated** [Dor10]. **Microfluidics** [FY11]. **microprobes** [MBSR<sup>+</sup>18]. **Microscale** [FY11]. **Microscopic** [FHKE<sup>+</sup>18]. **microscopy** [Moe15, OBC<sup>+</sup>14, dA10, vHZ10]. **mixing** [AF10]. **Mn** [JWN<sup>+</sup>14]. **Mod** [AgCMK12b, ABL19, BBGK16b, BM16, BCP<sup>+</sup>14b, CHT11b, EHM14, Giu19, GHM<sup>+</sup>22, HW11a, KMT11a, KC19, KKR16, Mer17, Mer17, Nam10, Pow10b, SH11b, TSNK14b, TS10b, UHS<sup>+</sup>17, ZJB14b]. **Model** [CW15, BH14, DG17, DeG16, HNW12, CEN<sup>+</sup>12]. **Modeling** [BM14, KVNf12, VMU<sup>+</sup>13, CCSM19, BM16]. **Models** [BLS<sup>+</sup>13, AF10, BN13, GML<sup>+</sup>11, KGBA11, KAHN10, NFMB18, NvdB15]. **Modern** [Lal14, CGI<sup>+</sup>19, HSXZ14, MPLS10]. **modes** [HvNCR10, KZ11, Phi10]. **modulation** [FLS13]. **molecular** [CB17, DD11, Tiel3]. **molecule** [GYS10, Moe15]. **molecules** [Bet15, BK10, CFRMS19, GHM<sup>+</sup>18, GHM<sup>+</sup>22, HGH<sup>+</sup>12, JLS18, SBD<sup>+</sup>18, TBC<sup>+</sup>16]. **moments** [CFRMS19]. **momentum** [LBTY17]. **Monte** [CGP<sup>+</sup>15, GML<sup>+</sup>11]. **morphologies** [EDM13]. **motion** [HvNCR10]. **motivations** [NvdB15]. **Mott** [Phi10]. **Multiboson** [GMP17]. **multicellular** [KVNf12]. **multifrequency** [Met17]. **Multimessenger** [A<sup>+</sup>13]. **Multiparticle** [DS12]. **Multiphoton** [PCL<sup>+</sup>12]. **multiple** [BLHE12]. **My** [Rie12].

**nanobubbles** [LZ15]. **nanodecomposition** [DSF<sup>+</sup>15]. **nanodroplets** [LZ15]. **nanoelectronics** [CSRS12]. **Nanoplasmas** [OBN16]. **nanoprobes** [MBSR<sup>+</sup>18]. **nanoscale** [FPP<sup>+</sup>10, MFK10, SZ19, VMU<sup>+</sup>13]. **nanoscopic** [CDGT<sup>+</sup>18]. **Nanoscopy** [Hel15]. **nanostuctured** [MPG13]. **nanostuctures** [LMS15, MSBD16, OBC<sup>+</sup>14, Sch17]. **nanotubes** [LKS<sup>+</sup>15, MPG13]. **nanowires** [Rur10]. **natural** [JM18]. **near** [BKRB15, KAAB<sup>+</sup>18]. **near-infrared** [KAAB<sup>+</sup>18]. **nematic** [AgCMK12a, AgCMK12b]. **networks** [BM14, BM16, DM10, EFS15, PSCVV15, RR15, TB18]. **Neutral** [ASG<sup>+</sup>16, BH13, DGJÖ11]. **Neutrino** [FZ12, GS15, McD16, AF10, Kaj16]. **neutrinos** [A<sup>+</sup>13, McD16]. **neutron** [DS11, LMD<sup>+</sup>13, MHP<sup>+</sup>19, VWT15, WAC<sup>+</sup>16, WG11]. **neutron-rich** [LMD<sup>+</sup>13]. **Nobel**

[Aka15, Ama15, Bar18, Bet15, Boy10, Eng14, Gei11, Hal17, Har13, Hel15, Hig14, Kaj16, Kao10, Kos17, McD16, Moe15, Mou19, Nak15, Nam09, Nam10, Nov11, Per12, Rie12, Sch12, Smi10, Str19, Tho18, Wei18, Win13]. **noble** [VCTL<sup>+</sup>12]. **Nodal** [JS17]. **noise** [BKRB15, CDG<sup>+</sup>10, PGFA14, SÁ16]. **Non** [BLPV16, CW15, dVA17]. **non-Hermitian** [CW15]. **Non-Markovian** [BLPV16, dVA17]. **nonclassical** [PSO<sup>+</sup>18]. **Nonequilibrium** [ATE<sup>+</sup>14, BSVH18, DMPZ12, EHM09, FKLW19, PSSV11, EHM14]. **Nonlinear** [KYZ16, LSK14, SE11, FMBT<sup>+</sup>10, KMT11a, KMT11b]. **nonlocal** [RHT<sup>+</sup>18]. **Nonlocality** [BCMdW10, BCP<sup>+</sup>14a, BCP<sup>+</sup>14b]. **Nonperturbative** [BTB<sup>+</sup>10]. **Nonstandard** [OSZ18]. **Normalization** [ES10]. **Note** [AgCMK12b, ABL19, BBGK16b, BCP<sup>+</sup>14b, HW11a, KMT11a, Nam10, Pow10b, SH11b, TSNK14b, TS10b]. **Nuclear** [KGBA11, UMA<sup>+</sup>13, CH17, CGP<sup>+</sup>15, EF15, EBD<sup>+</sup>12, GHM16, GEG10, HH10, MRW10, PKGR12, VWT15]. **nuclei** [AHV13, CJC10, CFRMS19, FHKE<sup>+</sup>18, HNS13, HvNCR10, HW11a, HW11b, LMD<sup>+</sup>13]. **Nucleon** [HMPW17, HR10, ABHM13]. **nucleonic** [HvNCR10]. **nucleosynthesis** [CFOY16]. **number** [HCGE17]. **numerical** [CBKvM10, PRV19, SPM<sup>+</sup>10].

**O** [dGW<sup>+</sup>17]. **Observation** [McD16]. **observations** [KGBA11, Sch12]. **Observatory** [McD16]. **Odd** [LB19]. **Odd-frequency** [LB19]. **offshoots** [Var15]. **Oganesson** [GMN<sup>+</sup>19]. **One** [CCG<sup>+</sup>11, ISG12, GBL13, RWF17]. **One-dimensional** [ISG12, RWF17]. **open** [BLPV16, dVA17]. **Optical** [DZ10, KSLUS18, LBY<sup>+</sup>15, dA10, DK11, KKR10, KKR16, Met17, RR15, RDBE13, SG10, Str19, UMA<sup>+</sup>13]. **Optically** [GNSW17]. **optics** [Bet15, SSdRG11]. **optimal** [Gra15]. **optomechanics** [AKM14]. **orbital** [LBTY17]. **order** [Dai15, KKR10, KKR16, KT15, MO11]. **orders** [FKT15]. **organic** [RTLL13]. **origins** [Jon15]. **oscillations** [Kaj16]. **other** [XAYN13]. **oxide** [CFM<sup>+</sup>14, DC17]. **oxides** [GGG10].

**packing** [Gra15]. **packings** [TS10a, TS10b]. **pair** [ASAJPV15]. **pairing** [RCR12, Sca12]. **paradigm** [ISG12]. **particle** [AD10, DS11, EF15, Nam09, Nam10, OANR<sup>+</sup>19, Sch13, SWK<sup>+</sup>16, THSR17, TS10a, TS10b]. **particles** [CZ16, CFRMS19, ZMB17]. **partonic** [LPT10]. **partons** [Alb10]. **passage** [VRSB17]. **passing** [GVMMEK10]. **past** [Kao10]. **pasta** [CH17]. **path** [Rie12, Wit16]. **pattern** [ST11]. **patterns** [BRBC<sup>+</sup>12]. **periodic** [KKY18]. **Perpendicular** [DC17]. **Persistent** [Sch17]. **perspective** [BB11, RTLL13, SF13, WDT<sup>+</sup>16]. **Perspectives** [Bur13, KUP<sup>+</sup>12, MJT15, AFG10]. **perturbations** [ES10]. **Phase** [ANT16, CJC10, Kos17, XCN10]. **phases** [Wen17, Wit16]. **phenomena** [BBB<sup>+</sup>12, DMPZ12, JWN<sup>+</sup>14, KKY18, MPG13, SZ19, HTB<sup>+</sup>17]. **Phonon** [TSNK14a, Giu17, Giu19, TSNK14b]. **Phonon-glass** [TSNK14a, TSNK14b]. **Phononic** [GWY<sup>+</sup>18]. **Phononics** [LRW<sup>+</sup>12]. **photocontrol** [Moe15]. **photoelectron** [BLHE12]. **photoemission** [PNB15]. **Photon** [GN10]. **photonic** [LMS15, MTA<sup>+</sup>17]. **photonic-crystal** [MTA<sup>+</sup>17]. **photonics**

[OPA<sup>+</sup>19, SGOMF13]. **photons**  
 [BBB<sup>+</sup>12, CDGT<sup>+</sup>18, Har13, LMS15, RR15, RWF17]. **Phys**  
 [AgCMK12b, ABL19, BBGK16b, BM16, BCP<sup>+</sup>14b, CHT11b, EHM14, Giu19, GHM<sup>+</sup>22, HW11a, KMT11a, KC19, KKR16, Mer16, Nam10, Pow10b, SH11b, TSNK14b, TS10b, UHS<sup>+</sup>17, ZJB14b]. **Phys.** [Mer17]. **Physical**  
 [DC11, LL19, MSBD16, SESE10, AAL<sup>+</sup>10, BBB<sup>+</sup>12, CCC<sup>+</sup>19, GT10, KKS<sup>+</sup>12, MTN12, NvdB15, Ano18, ST18]. **Physics**  
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- [SWM10] M. Saffman, T. G. Walker, and K. Mølmer. Quantum information with Rydberg atoms. *Reviews of Modern Physics*, 82(3):2313–2363, July 2010. CODEN RMPHAT. ISSN 0034-6861 (print), 1538-4527 (electronic), 1539-0756. URL <http://link.aps.org/doi/10.1103/RevModPhys.82.2313>; [http://rmp.aps.org/abstract/RMP/v82/i3/p2313\\_1](http://rmp.aps.org/abstract/RMP/v82/i3/p2313_1).

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