

# A Selected Bibliography of Publications by, and about, Richard Phillips Feynman

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## Title word cross-reference

**\$14.95** [Oni15]. **\$15** [Ano54b]. **\$18.00** [Dys98]. **\$19.99** [Oni15].  $2 + 1$   
[Fey81, Fey82c]. **\$22.00** [Dys98]. **\$22.95** [Oni15]. **\$24.95** [Dys11a, RS12].  
**\$26.00** [Bro06, Ryc17, Dys05]. **\$29.99** [Oni15, Roe12, Dys11a]. **\$30.00**  
[Kra08, Lep07, Wüt07]. **\$35** [Ano03b]. **\$50.00** [DeV00, Ano99]. **\$500**  
[Ano39]. **\$55.00** [Noe11]. **\$80.00hb/\$30.00pb** [Cao06]. **\$9.95** [Oni15].  $\alpha$   
[GN87, Sla72].  $e$  [BC18].  $E = mc^2$  [KN19].  $F(t) \cdot r$  [BS96].  $\lambda$  [Fey53c, Fey53a].  
 $SU(3)$  [Fey65a].  $U(6) \otimes U(6)$  [FGMZ64].  $\pi$  [BC18].  $r$  [EFK<sup>+</sup>62].

**-Transition** [Fey53a].

**0-19-853948-7** [Tay97]. **0-226-42266-6** [Wüt07]. **0-226-42267-4** [Kra08].  
**0-691-03327-7** [Bro96c]. **0-691-03685-3** [Bro96c].

**1** [Rel22]. **1965** [Fey64e]. **1988** [Meh02].

**2** [Rel23]. **2.0** [BCKT09]. **2002** [FRRZ04]. **2007** [JP08]. **2010** [KLR13].  
**20th** [Anoxx, Bre97, Gin01, Kai02]. **235** [FdHS56].

**3** [Ish19, Ryc17]. **3.0** [Sem09]. **3.2** [Sem16].

**40th** [MKR87]. **469pp** [Cao06].

**8** [Roe12].

**9** [BFB82]. **978** [Ish19, Roe12, Ryc17]. **978-0-06135-132-7** [Oni15].  
**978-0-300-20998-3** [Ryc17]. **978-0-8090-9355-7** [Oni15].  
**978-1-58834-352-9** [Oni15]. **978-1-59643-259-8** [Roe12].  
**978-1-59643-827-9** [Oni15]. **978-1-59691-452-0** [Oni15].  
**978-3-319-96835-3** [Jac20, Ish19]. **9th** [JP08].

**Abenteuer** [FL14]. **Abner** [CHS97]. **Absolute** [Fey53b]. **Absorber**  
[FW41, Pri94, WF45]. **Absorbing** [FW46]. **Absorption** [Ber47]. **Acquired**  
[TF70, TF71]. **Across** [Bus10, II08]. **Action** [Fey42, WF49]. **Actors** [FW20].  
**Addison** [Dys98]. **Addison-Wesley** [Dys98]. **Advanced** [Sca91].  
**adventure** [MB11a]. **Adventures**  
[BFB82, Dre89, FL06, FL14, Sac85, Tei86, FL88, FLH85b, FLH85a]. **advice**  
[FGL<sup>+</sup>12]. **Again** [Lee95]. **Against** [Wüt13a]. **Age** [Dys98]. **Alamos**  
[MKR87, BHB80, BFB82, Bet91b, Bet93, Fey74c, Fey80b, Fey82a, Wil75].  
**Albert** [Hor00]. **Albuquerque** [Dys79b]. **algorithm** [XWhZ13]. **ALOHA**  
[dALM<sup>+</sup>12]. **Altas** [Fey72a]. **America** [Fey63c]. **American** [Lit89]. **among**  
[FFF77]. **Amplifier** [BF46, dDD<sup>+</sup>19]. **amplitude** [Fie06, Wan93].  
**amplitudes** [Wes93, dALM<sup>+</sup>12]. **analysis** [CH70, FRRZ04]. **analyzer**  
[TF00]. **Ancestor** [DE88]. **and/or** [Mil12]. **Anecdotes** [BFB82].  
**ANESTOC** [FRRZ04]. **Anniversary** [MKR87]. **anthology** [War12].  
**Anthony** [Ano99, Ano03a, DeV00]. **Anthropic** [Spe91]. **anthropology**  
[Fey15]. **Antiparticles** [Fey89b, Fai89]. **Anton** [Fis10, Fis12, Fis10, Fis12].  
**Any** [Sta97, Kan95]. **Apart** [Cao06, Fre06, Kai05b, Kra08, Lep07, Wüt07].  
**Apostolos** [Oni15]. **Appendix** [Fey86d]. **Application**  
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[Fey88a]. **Approach** [Bro05, Cal72, Fey48c, Fey49a, FBD05, ST09, BKSS10,  
BKSS12, Cra93, FFF78, Rel23]. **approximated** [BC18]. **Archibald** [Kla72].  
**Art** [Roe12, Ano96, Dys11a, FF95]. **articles** [Ano89]. **Artist** [Fey89a].  
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[FF91]. **Atomic**  
[Edw85, Fey53d, Fey53b, Fey53e, Fey53c, Fey54a, Oni15, Bet91b]. **Atoms**  
[Fey91a, Bro98]. **atual** [Fey51b]. **Audio** [Rat06]. **auroras** [Fey15].  
**Autobiography** [For20, Dys18]. **automated** [BFK98]. **Automatic**  
[Nog93, Sas76, Wan93, dALM<sup>+</sup>12, Sem98, Sem09, Sem16, XWhZ13].

**available** [Jac20]. **Averages** [Pop98]. **Award** [Ano54a, Ano54b]. **Awarded** [Ano35, Dys65].

**B** [Ano03b, Haf65, Lin66, Tre64]. **Back** [Ano11a, Wüt11a]. **bacteriophage** [EFK<sup>+</sup>62]. **Bang** [Spe91, Spe91]. **Barrow** [Spe91]. **Baryonic** [FPT70]. **Based** [FMT47, FMT49b, FMT49a]. **Basic** [Ano05, Bro06, Dys05]. **basis** [Mar06, RLER07]. **Be** [Fey47, Fey66e, Mor95]. **Beat** [Cus96, SGT<sup>+</sup>95, Tay97, Meh94]. **Beaten** [Bro06, Dys05, Fey05a, Sch06]. **Beaulieu** [SGT<sup>+</sup>95]. **beauty** [Mlo03a]. **Been** [TSxx, Bro11]. **beginners** [DT16]. **behavior** [Fey69b, Fey81, Fey07a]. **belieben** [FL14]. **Belief** [Dys98]. **Bell** [Mer17, Whi16]. **Below** [Fey82a, Fey74c, Fey80b]. **Berlin** [KLR13]. **Best** [FR99, FR05, Pic17d, Fey00c, Fey06a]. **Bethe** [Goo99, Kai05a]. **between** [Cos50, Stö18]. **bibl** [Jac20]. **Big** [Spe91]. **Biographies** [FW20, Jac20, Wei88, Nob72]. **Biography** [Fey64e, Fey98a, For20, Oni15]. **Birth** [BH83a, BH83b, BH82]. **birthday** [Kla72]. **bis** [Fis10, Fis12]. **Black** [Lig19, Ove08, Spe91]. **Black-Hole** [Lig19]. **Blackboard** [Lig19]. **Blackboards** [Paz89]. **Blocks** [Noe11, Coo10, Coo15]. **Bloomsbury** [Oni15]. **Blunder** [BFB82]. **Body** [Bus10, Kai05a, II08, Mat67, Mat76, Mat92]. **Bohm** [For07, Jac10, Tür10, For07]. **Bomb** [Ral06, Oni15]. **bombs** [Hen10]. **bongos** [Hen10]. **Book** [And88, Ano99, Ano03a, Ano03b, Bro96b, Bro96c, Bro06, Cao06, Cus96, DeV00, Dre89, Dys91, Dys92, Dys98, Dys11a, Fey86b, For19, Fre06, Gro14, Haf65, Hug86, Hut68, Ish19, Jac20, Kai01, KYT<sup>+</sup>92, Kra08, Lan11, Leb73, Lep07, Lin66, Mic67, Mul74, Noe11, Oni15, RS11, RS12, Roe12, Ryc17, Sac85, Sax94, Sch06, Spe91, Tay97, Tei86, Tre64, Tür10, Way95, Wei66, Wüt07, Dan00]. **Books** [Ano99, Bro06, DeV00, Dys05, Oni15, Roe12, Sta98]. **Bottom** [Fey59a, Fey59b, Fey61c, Fey92, Fey11e, JR06]. **Boulder** [Ano03b]. **Boys** [Ano35]. **Breaking** [TSxx]. **Brian** [Ano03b]. **Brief** [Spe91]. **brilliant** [FLS95, Fey11c]. **British** [DE88]. **Brogie** [Cos50, Fie06, Vis51]. **Brooklyn** [Ano35, Ano39]. **Brown** [Wei88]. **Built** [Ral06]. **Bulletin** [FR98]. **Bust** [Dys91, Lei00, Par03]. **Byrne** [Oni15].

**C** [Smi15, Stu10]. **Cage** [CHT15, Tre16]. **Calculation** [Cal72, PJ95, BFK98, FT92, Wan93]. **calculations** [Gro07]. **cálculo** [Fey51d]. **Calculus** [Fey33, Fey51c, Jef04, MW66, BKSS12, Fey51d, JL86]. **Caltech** [Ano65a]. **Cambridge** [Ano03a]. **Can** [Ano96, Fey72b]. **Care** [Dre89, Spe91, FL88]. **Cargo** [Fey74b]. **Carolina** [DMR57]. **CD** [KYT<sup>+</sup>92]. **CD-ROM** [KYT<sup>+</sup>92]. **celle** [Cos50]. **centre** [Goo01, UMF16]. **Century** [Anoxx, Bre97, Gin01, Kai02]. **CERN** [Acz10]. **Challenger** [DE88, Fey88c]. **Cham** [Ish19, Jac20]. **champ** [Cos50, Vis51]. **Channel** [Fey56b]. **Chapel** [DMR57]. **Character** [FLH85b, FLH85a, Fey94b, FL06, Hut68, Mic67, FC55, Fey65e, Fey70c, FL88, FF95, Fey12, Dre89, Sac85, Tei86]. **Charles** [Hor00]. **chasing** [Ano96]. **Chemistry** [Hel37]. **Chicago** [Cao06, Kra08, Lep07, Wüt07]. **Chief** [RS11]. **Childs** [Ano35]. **Chile**

[FRRZ04]. **Christian** [Jac10, Tür10]. **Christos** [Oni15]. **chromodynamic** [FFF78]. **chromodynamics** [Fey82c]. **Cipher** [Rel22, Rel23]. **ciphers** [Rel23]. **Circuit** [BBdTF25]. **Citizen** [Dys98, Fey98d]. **City** [Ano39]. **Classic** [FL06]. **Classical** [Fey48b, WF49, FK86]. **Climbing** [Kai05a]. **Closed** [Fey71a]. **cloth** [Bro06, Jac20, Noe11, Roe12]. **CO** [Ano03b]. **Coined** [Ove08]. **Cold** [CF57, For07]. **Collected** [Fey05a]. **collection** [Bus10, Kla72, Rat06]. **College** [Ano39]. **Collider** [Acz10]. **Collins** [Oni15]. **Collisions** [Fey69d, Fey69b, Fey77a]. **Coloring** [Roe12, Dys11a]. **Colors** [Ano96]. **Combinatorial** [Cra93]. **Commentaries** [Ano96]. **commentary** [Bro00c, Dys01]. **Comments** [FPT70]. **Commission** [Fey86d]. **Common** [Spe91]. **Company** [Lan11]. **Competition** [Ano39]. **Complete** [Rat06]. **Components** [FGMZ64]. **Compton** [BF52]. **Computation** [DP04, DeV00, Hey99a, Ano99, Ano03a, FHA96, HA96, Hey99b, HF02, Sei00, TF04]. **computational** [HM24]. **computations** [dALM<sup>+</sup>12]. **Computer** [San87, Ano02, Bro00b, CH70]. **Computers** [Fey84, Fey86a, Hey99a, Ano02, Fey82d, Fey85b, Fey86c, Fey87b, HF02, Sei00, DeV00, Ano99, Ano03a]. **computing** [Fey85a, MD02]. **Concatenation** [BBdTF25]. **Concept** [Noe11, Coo10, Coo15, Fey51a]. **Condensed** [Pin89, Jis13, Jis14]. **Conditions** [MF56]. **Conference** [Fey48a, Fey74a, JP08, KLR13, DMR57]. **conhecimentos** [Fey51b]. **Connection** [Cos50, Hil89]. **Connexion** [Cos50]. **Consequences** [Fey65a]. **conserved** [Nog17a, Nog17b]. **Conspiracy** [Bro00a]. **constant** [BC18]. **constants** [Kan95]. **Constructing** [Ral06]. **containing** [Ano89]. **Contest** [Ano35, Ano39]. **Conventional** [Usd09]. **Conversation** [Goo99]. **conversations** [Bri95a]. **Cooper** [Ano39]. **Coopersmith** [Noe11]. **Cornell** [Bet93, Dys89, Dys93]. **Correction** [BBF53]. **Corrections** [Ano87, BF52]. **Correlations** [FFF77, Fey77a]. **Cosmic** [VF39]. **Cosmological** [Spe91]. **Cosmology** [Spe91]. **cosmos** [Dan00]. **Could** [Mer04]. **Counting** [Kan18]. **coupling** [Kan95]. **Course** [Fey78, DT16]. **Creation** [Acz10]. **Creativity** [Fey80a]. **creators** [Str11]. **cryptanalysis** [Rel23]. **Crystal** [Fey55a, FHIP62, TF70, TF71]. **Cult** [Fey74b]. **Culture** [Dyl20b, Fey66e]. **Curie** [Oni15, Hor00]. **Curious** [Dre89, FLH85b, FLH85a, FL06, Sac85, Tei86, FL88, FF95, FL14]. **Current** [Fey51b, FGMZ64, FKR71]. **Cut** [Fey48b, Fey48d]. **Cut-Off** [Fey48b, Fey48d].

**D** [Spe91]. **Dabney** [Ano65b]. **Damping** [FW41]. **Darwin** [Hor00, Oni15, SNA<sup>+</sup>06]. **data** [Fey92]. **David** [Cao06, For07, Jac10, Tür10, Wüt07, For07, Fre06, Kra08, Lep07]. **Day** [Lig19, HHW99]. **DC** [Oni15]. **Dead** [Gle88, Ove08]. **decomposiTiOn** [ST09]. **Definition** [Her13, Cos50, Cos50]. **Definitive** [Fey70a]. **degree** [RLER07]. **Derivation** [Eps55]. **description** [Fie06]. **Design** [Fri14, KYT<sup>+</sup>92]. **Determination** [Ber47]. **Deuteron** [LF52, LF54]. **Development** [Fey66c, Wüt11b, Fey66a, Fey66b, Fey98b, HM24, Wüt13b]. **Deviations** [Bro06, Dys05, Fey05a, Sch06]. **diagonal** [FC82]. **Diagram**

[PJ95, BFK98, Jis13, Jis14, Lai98, TF00, XWhZ13, XW15, dALM<sup>+</sup>12].  
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 Mey18, Stö17, Stö18, Vel94, Wüt07, Wüt11g, Wüt11h, Wüt11i, Wüt12,  
 ABD<sup>+</sup>18, Bil74, BT04, BCKT09, CH70, Cao06, DT16, Dar19, Fey71a, FT92,  
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**Divergence-Free** [Wüt13a]. **Diversions** [Mer16]. **Do**  
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**E-book** [Jac20]. **Early** [SGT<sup>+</sup>95, Gro12, Wüt13b]. **Earth** [UMF16]. **easy**  
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**Electricity/Zell** [SGT<sup>+</sup>95]. **Electrodynamics**  
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**elementary-particle** [BH82]. **Elements** [FMT47, FMT49b, FKR71, FMT49a]. **elliptic** [ABD<sup>+</sup>18]. **Emission** [FdHS55, FdHS56]. **Emulation** [BBdTF25]. **Energias** [Fey72a]. **energies** [Fey69b]. **Energy** [Coo10, Coo15, FHRK51, FC56, Fey69d, Noe11]. **Entanglement** [CHS97, Sta97, MD02]. **entdecken** [FRL01]. **entre** [Cos50]. **Entretiens** [Fey00b]. **Enumeration** [Hur52]. **Enz** [SGT<sup>+</sup>95]. **Epic** [Oni15]. **Epistemology** [Mey18]. **Equation** [FVH57, Wüt11c]. **Equations** [FMT47, FMT49a, FMT49b, Dys90]. **Erforschung** [Fis10, Fis12]. **errors** [Sty11]. **Espionage** [Usd09]. **essays** [Kla72]. **essentials** [FLS95, Fey11c]. **Estado** [Fey51b, Fey63b, Fey89c]. **Eugene** [Oni15]. **EUR** [Jac20]. **evaluate** [BS96, vO91]. **Evaluation** [ST09]. **Evander** [Ano35]. **Events** [Ber47]. **Everything** [DB88b]. **Excitations** [FC56, Fey58]. **Excursion** [Her13]. **Exercises** [Fey64a, FLV69, FLS14]. **Exigencies** [Wüt18]. **experiments** [EFK<sup>+</sup>62]. **explained** [FLS95, Fey11c]. **explainer** [KYT<sup>+</sup>92, LeV10]. **Explores** [Dyl20b]. **Exploring** [Ano99, Ano03a, DeV00, Hey99a, HF02, Sei00]. **expressing** [Wes93]. **Extended** [Fey70a, XW15]. **Extension** [Pop98]. **Extraordinary** [Jac20, Muk11, Res18, Ish19]. **extreme** [Fey69b].

**F** [Fey86d]. **failings** [Cre14]. **Fallout** [Oni15]. **Fantasy** [Fey80a, Fey00a]. **Far** [Ano35]. **Faraday** [CHT15, Tre16]. **fast** [XW15]. **Father** [FD93]. **FBI** [BLM19]. **February** [Meh02]. **Feinmanovskie** [FLS76a, FLS76b, FLS77b, FLS77a, FL77, FLS78]. **Fejnman** [Dai67]. **Fenómenos** [Fey63b, Fey89c]. **Fermi** [FMT47, FMT49a, FMT49b, FGM58, FG92]. **Fernando** [Ano03b]. **Ferris** [Dys05]. **Ferromagnetic** [MF56]. **Fetter** [Oni15]. **Fetter-Vorm** [Oni15]. **FeynEdit** [HL08]. **Feynman** [And88, Ano03b, Bet88, Bro96b, Bro96c, Bro06, Bus10, Cao06, Dai67, Dre89, Dys91, Dys98, Dys05, Dys11a, Edw85, For19, Fre06, Haf65, Hor00, Hug86, Hut68, Kai01, Kra08, Lan11, Leb73, Lep07, Lin66, Meh02, Mil12, Mul74, Noe11, Rat06, RS12, Sac85, Sax94, Sch06, SGT<sup>+</sup>95, Spe91, Tei86, Tre64, Way95, Wei66, Wüt07, ABD<sup>+</sup>18, AHK76, AHKM08, AEMS10, Ano35, Ano54a, Ano54b, Ano65b, Ano87, Ano88, Ano89, Ano96, Ano02, Ano05, Anoxx, Aro97, BS96, BMGW88, Bee80, Ber47, Bet91a, Bet93, Bil74, BT04, BCKT09, Bjo89, BKSS10, BKSS12, BBdTF25, Bri95b, Bro98, BR93, Bro00a, Bro00c, Bro05, Bro06, Bro11, Bro18a, BFK98, Bry09, Cal72, CH70, Cao06, Cec11, Cha89, CD09, Coo10, Coo15, Cos50, Cra93, Cre14, CP14, CK74, DT16]. **Feynman** [Dar19, DB88a, Dav79, DeV00, DR18, DT08, Dur00, DR93, Dyl20a, Dys49, Dys58, Dys65, Dys89, Dys90, Dys93, Dys01, Dys03, Dys11a, Dys11b, Eps55, EFV03, Fer52, FC82, FLS65b, FLS64, FLS65a, FLS66, Fey70a, Fey72d, Fey80a, Fey86b, FL87b, FLS89, Fey89a, FD93, Fey94a, FF95, FMWH95, FHA96, Fey98a, FR99, Fey00c, Fey00b, FHM03, FBD05, FR05, Fey05a, FL06, FLS06, FGL<sup>+</sup>06, Fey06a, Fey10b, Fey10a, FGL<sup>+</sup>12, FL14, FLS14, Fie06,

FT92, For22, For24, For07, For20, Fri11, Fri14, Gal98, GN87, GM89, Gle88, Gle92, Goo89, GFG97, GG00, Goo01, GG97, Gro12, Gro07, HL08, Hal17, HM24, Hei62, Hen10, Her13, HA96, Hey96, Hey99a, Hey99b, HF02, Hil89, Hur52, I108, Jac20, Jef04, Jis13, Jis14, JL86, Kai02, KIH04, Kai05a]. **Feynman** [Kai05b, Kai05c, Kan95, Kan18, KYT<sup>+</sup>92, Kra11a, Kra11b, Kre00, Lai98, LeV10, Lee94, Lee95, Lei00, Lev90, Lig19, Lit89, Lub89, Mar06, Mar10, Mat67, Mat76, Mat92, Maz09, Meh94, Mer04, Mer17, Mey08, Mey18, Mic67, MD02, MW66, Mlo03a, Mlo03b, MB11b, Mor04, Muk11, NC89, Nog93, Nog17a, Nog17b, Ohl95, Oni15, Ott11, OM13, PJ95, Par03, Paz89, Pic17a, Pic17b, Pic17c, Pic17d, Pin89, Pop98, Pri94, Pup02, Res18, RLER07, Sas76, Sau08, Sca91, SNA<sup>+</sup>06, Sch86, Sch94b, Sch94a, Sch94c, Sei00, Sem98, Sem09, Sem16, She05, Sim80, Sla72, ST09, Smi15, Sta98, Sta97, Stö17, Stö18, Stö22, Str08, Stu10, Sty11, Syk94, Tay97, TVOT98, Tel89, TF00, TF04, Vel94, Vis51, Wan93, Wei88, Wes93, Whe89, Whi16, Wüt11c, Wüt11d]. **Feynman** [Wüt11g, Wüt11h, Wüt11i, Wüt12, Wüt13a, Wüt13b, Wüt18, XWhZ13, XW15, Zeh11, dDD<sup>+</sup>19, dALM<sup>+</sup>12, vO91, Cus96, Dys92, Dys05, Jac10, Sch06, Tür10, Ano03b, Ben11, FGL<sup>+</sup>06, Gro14, Ish19, Ano99, Ano03a]. **Feynman-Diagram** [PJ95]. **Feynman-graph** [Kan95]. **Feynman**. [Roe12]. **Feynman/Miller** [SGT<sup>+</sup>95]. **FeynmanParameter** [Wes93]. **Feynman's** [Ano89]. **FeynRules** [CD09]. **FF** [vO91]. **Field** [Fey67a, TF70, TF71, Wüt11d, Cos50, Dar19, Fey71c, Fey88a, Sem09, Vis51]. **field-less** [Dar19]. **FIESTA** [ST09]. **Fifty** [CP14]. **figs** [Jac20]. **Files** [BLM19]. **Film** [Hut68]. **Finding** [FR99, FR05, Fey00c, FRL01]. **Findings** [Ano65a]. **fine** [BC18]. **Fingerübungen** [Fey11b]. **Finite** [Fey46, TF70, TF71]. **FIRE5** [Smi15]. **First** [Ano35, Ano39, Dys11a, Oni15, Roe12]. **Fisica** [Fey72a, Fey53f, Fey05b]. **Fission** [FdHS55, FdHS56]. **Fissionable** [FW46]. **Five** [Cec11]. **Fizika** [FLS70, FLS77b]. **fizike** [Dai67, FLS76a, FLS76b, FLS77b, FLS77a, FL77, FLS78]. **flavour** [Fie06]. **flow** [Fey55c]. **Fluid** [Fey54a]. **fonction** [Vis51]. **Forces** [Fey39a, Fey39b]. **foreword** [Dys05]. **form** [BS96, Wan93, FT92]. **Formulae** [Mor04]. **formulas** [FC82]. **Formulation** [Aro97, Fey50]. **Forstner** [Jac10, Tür10]. **Fortgeschrittene** [Fey11b]. **found** [Ano96]. **Foundation** [Aro97]. **Fragments** [Fey86b]. **Frank** [Spe91]. **Free** [Wüt11e, Wüt13a]. **Freeman** [Spe91, Sta98]. **French** [Cos50, Hei62, Vis51]. **Fritsch** [RS11, Mil12]. **Front** [Ano11b, SGT<sup>+</sup>95, Wüt11f]. **Frontiers** [H<sup>+</sup>58]. **frosh** [Ano65b]. **fulfillment** [RLER07]. **Full** [San87]. **function** [Vis51]. **functions** [FK86, Str08]. **Fundamental** [Fey47, Fey59c, Fey54b, Fey61b, Fey62b, Fey95]. **Further** [Dre89, FL88]. **Future** [Ber47, Fey85a, Fey91b].

**G** [Ano99, Ano03a, Ano03b, DeV00]. **Galaxy** [VF39]. **Galileo** [Hor00, Cro01, RS11, SNA<sup>+</sup>06]. **Gate** [BBdTF25]. **Gate-Circuit** [BBdTF25]. **Gauge** [Fey77b]. **Genealogical** [Mor04]. **general** [FV63, FV00, Mil12]. **Generalized** [FMT47, FMT49b, GN87, JL86, FMT49a, Str08]. **Generated**

[FGMZ64]. **Generation**  
 [Nog93, RLER07, Wan93, Sas76, Sem98, Sem09, Sem16, XWhZ13]. **generator**  
 [Kan95, XW15]. **Genesis** [Wüt11g, Wüt18]. **genidentity** [Stö22]. **Genius**  
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**Geometric** [Sim80]. **Geometrical** [FVH57]. **geometry** [Mar06]. **George**  
 [Wei88]. **German** [FH69, Fey86e, FRL01, FL14, Fis10, Fis12, For07, Hel37].  
**Germany** [JP08]. **Gesetze** [Fey10c]. **Getting** [Ano39]. **Gleick** [Dys92].  
**Goals** [Wüt11b]. **God** [Dys98, Dys98, MB11a]. **Goes** [FL87b]. **Gold**  
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 [Lev90]. **Graphs** [Hur52, Kan18, Sas76]. **Gravitation**  
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**gravitational** [Fey71c]. **Great** [Cro01, Hal09, Wüt11c, Bre97, LeV10].  
**Gribbin** [Kai01, Kai01]. **Group** [FGMZ64]. **Groveling** [Ano65b]. **Guide**  
 [EFV03, Fey67a, Mat67, Mat76, Mat92]. **guided** [HG07]. **Gurr** [Oni15]. **Guy**  
 [GM89].

**H** [Oni15, Wei88]. **Hadron** [Acz10, Fey69b, Fey72c, Fey77a]. **Hadrons**  
 [Fey69d]. **Hall** [Cha89, GM89]. **Halpern** [For19]. **Hamiltonian** [Wüt11j].  
**Hancock** [SGT<sup>+</sup>95]. **Hancock-Beaulieu** [SGT<sup>+</sup>95]. **Hans** [Goo99, Stö22].  
**Harald** [Mil12, RS11]. **hardback** [Ish19, Tay97]. **Hardbound** [DeV00].  
**hardcover** [Oni15]. **Harper** [Oni15]. **Hatfield** [Ano03b]. **Having** [Fey51c].  
**Hawking** [Spe91, Cro01, Dan00]. **Heisenberg** [Mil12, Bre97, Fri11]. **Heitler**  
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**Here** [Ano39, Bre97]. **Heuristics** [Wüt13a]. **Hey** [Ano99, Ano03a, DeV00].  
**Hibbs** [Wei66, Sty11]. **High**  
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**high-transverse-momentum** [FF77]. **Highest** [Ano35]. **Hilary**  
 [Dys11a, Roe12]. **Hill** [DMR57, Oni15]. **Hintertreppe** [Fis10, Fis12].  
**historic** [Fey57b]. **Historical** [Dys11b]. **Histories** [Oni15]. **History**  
 [Dyl20b, FW20, GG00, Oni15, Spe91, KLR13]. **Hole** [Lig19, Ove08]. **Holes**  
 [Spe91]. **honor** [Kla72]. **Honors** [Ano35]. **House** [Ral06]. **HQ** [KLR13].  
**HQ-3** [KLR13]. **Human** [Bus10, II08]. **humbly** [Ano65b]. **hypergeometric**  
 [ABD<sup>+</sup>18]. **Hypotheses** [SF56].

**Idea** [Wol16, JR06]. **ideas** [Bre97, Wol16]. **II** [Fey55c, Nog17b]. **III** [FLS66].  
**illus** [Oni15]. **Illustrated** [Syk94]. **im** [For07, Jac10, Tür10]. **images** [FF95].  
**imagining** [Dan00]. **implementation** [Fri14, Smi15]. **Impossible** [Wüt13a].  
**including** [Nob72]. **Independent** [Eps55]. **Individual** [Ano35]. **Industrial**  
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**Infinitesimal** [Fey93]. **Infinity** [Bro96a]. **Influential** [Rog10]. **information**  
 [Fri14]. **Inquiry** [Fey88c]. **insights** [FGL<sup>+</sup>12]. **inspiration** [Ano65b].



**inspired** [Par03]. **Institutions** [FW20]. **Integral** [ST09, Smi15, BS96, BKSS12, DT08, JL86, Sim80, Stu10]. **Integrals** [AHK76, AHKM08, Her13, ABD<sup>+</sup>18, BKSS10, FH65, FH68, FH93, FHS10, JP08, Maz09, Str08, Wes93, Wei66]. **integrally** [FH68]. **integration** [Cra93, Sau08]. **Integrity** [Dyl20a, Fey90]. **Interacting** [Mor04, FV63, FV00]. **Interaction** [Fey50, FGM58, FG92, WF45, BS96, Vis51]. **interactions** [Fey65a, Fey65d, Fey67a, Fey69c, Fey72c]. **interest** [Mil12]. **interface** [BT04, BCKT09]. **Interfaces** [SGT<sup>+</sup>95]. **Interfaces/Meadows** [SGT<sup>+</sup>95]. **International** [DMR57, JP08, KLR13]. **Interparticle** [WF49]. **Interpretation** [Wüt11h, Zeh11]. **Interpreting** [Wüt12]. **Interprets** [Fey80a]. **Interview** [Ano05, Dav79]. **intriguing** [dDD<sup>+</sup>19]. **Introduction** [AHKM08, Bil74, Bro18b, Lar19, Wüt11h, Dys05, Hel37]. **Introductory** [FLV69]. **Intuitive** [Lar19]. **invariance** [HZ01]. **Invention** [CA15]. **Invisible** [Fri91]. **IP** [KYT<sup>+</sup>92]. **ISBN** [Bro96c, Ish19, Jac20, Kra08, Oni15, Roe12, Ryc17, Tay97, Wüt07]. **Issue** [Lub89, Ano89]. **Iterated** [ABD<sup>+</sup>18]. **Ivancevic** [Bus10, Bus10]. **Izluchenie** [FLS76b].

**J** [Ano99, Ano03a, DeV00, Gro14, Spe91]. **J.** [PC06]. **Jagdish** [Cus96, Tay97]. **James** [Ryc17, Dys92]. **January** [DMR57, FRRZ04]. **Japan** [KIH04]. **JaxoDraw** [BT04, BCKT09]. **Jennifer** [Noe11]. **jets** [FFF77, Fey77c, FFF78, FF78]. **Jim** [Dys11a, Oni15, Roe12]. **John** [Dys98, For19, Kai01, Spe91, Hal17, Kla72, Ove08]. **Joking** [FLH85b, FLH85a, Fey86b, FL14, Sac85, Tei86]. **Jonathan** [Oni15]. **Jörg** [Ish19, Jac20]. **Joseph** [Spe91]. **Journey** [Lei00, Dys91]. **Journeys** [Dyl20b]. **July** [KLR13]. **June** [FRRZ04, KLR13].

**Kac** [Mor04]. **Kaiser** [Cao06, Fre06, Kra08, Lep07, Wüt07]. **Kalten** [For07, Jac10, Tür10]. **kernel** [Cos50]. **Kinetika** [FLS76b]. **kleinsten** [Fis10, Fis12]. **Knots** [Kre00]. **knowledge** [Fey51b]. **Known** [Ano54b]. **Krauss** [Dys11a, Lan11, RS12, Kra11a]. **Krieg** [For07, Jac10, Tür10]. **kurs** [Fey78]. **Kvantovaia** [FH68]. **Kvantovaya** [FLS78]. **Kvanty** [FLS76b].

**L** [Ano39, Gro14]. **L.** [Cos50]. **Lab** [Dys98]. **Labyrinth** [For19, Hal17]. **Ladder** [Kai05a]. **Lagrangian** [Dir33, Sem98, Sem16]. **Lamb** [BBF53]. **LanHEP** [Sem98, Sem09, Sem16]. **large** [FFF77, FFF78, Acz10]. **large-transverse-momentum** [FFF78]. **Last** [Dys91, Lei00, Paz89]. **lasting** [Dur00]. **Latin** [Fey63c]. **Latter** [Ano39]. **Lattice** [FW46]. **Laureates** [Nob72]. **laureaty** [Dai67]. **Lauren** [Oni15]. **Law** [Fey94b, Fey65e, Fey70c, Fey12, Hut68, Mic67]. **Lawrence** [Dys11a, Lan11, Kra11a, RS12]. **Laws** [And88, Fey66d, Ano02, FW87, Fey87b]. **Leading** [Gle88, Cro01]. **Leap** [Bus10, Fis10, Fis12, II08]. **learned** [Cec11]. **Least** [Fey42]. **Lecture**

[FH69, Fey78, Fey62a, Fey62b, FHH<sup>+</sup>62, Fey95, GFG97]. **Lectures**  
 [CP14, Edw85, Fey59c, Fey62c, Fey64a, FLS66, Fey70a, Fey71b, FHM03,  
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 Fey10a, FLS14, Gro12, HA96, Nob72, Fey06a, And88, Leb73, Mul74]. **Leeds**  
 [Pri94]. **legacy** [Dur00, FRRZ04]. **Leibniz** [Noe11, Coo10, Coo15]. **Leighton**  
 [Dys91, Haf65, Lin66, Tre64, Fey00b, Par03]. **lektsii**  
 [FLS76a, FLS76b, FLS77b, FLS77a, FL77, FLS78]. **lektsii** [Fey78]. **Leland**  
 [Dys11a, Roe12]. **less** [Dar19]. **Letter** [Fer52, Fey67b]. **Letters**  
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 [Ben11, Bus10, Mil12]. **Levels** [Wüt18]. **Leyland** [Oni15]. **libraries**  
 [dALM<sup>+</sup>12]. **Lies** [KYT<sup>+</sup>92]. **Life**  
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**Lifetime** [Gin01]. **Light** [Fey13, MB11b, Pic17a, Fey88d, Fey06b, Fey10b].  
**Limits** [DeV00, Hey99a, Ano99, Ano03a, HF02, Sei00]. **linear** [FV63, FV00].  
**Liquid**  
 [CF57, Fey53b, Fey53a, Fey54a, FC56, Fey53d, Fey53e, Fey55b, FC55, Fey58].  
**Lisbon** [FRRZ04]. **literature** [HG07]. **lives** [Bre97, Wol16]. **Logic** [Bro00a].  
**Logicomix** [Oni15]. **London** [Kra08, Lan11]. **loop**  
 [Fey71a, FT92, Gro07, Wan93, vO91]. **loop-diagrams** [Wan93]. **Lorentz**  
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**luminaries** [Bri95a].

**M** [Dys11a, Lan11]. **M.I.T.** [Ano39]. **MA** [Ano99, Ano03a]. **Machine**  
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 [Bro96b, Bro96c, Sax94, Way95, CD09, Haw11, Sch94a, SGT<sup>+</sup>95]. **Magic**  
 [Kla72, Dar19]. **Magnetic** [NC89]. **magnetizm** [FLS77a]. **magnitudes**  
 [Cos50]. **Mai** [FLS70]. **Mainly** [FLS64]. **Maker** [Dys18]. **Makers**  
 [AG02, Wol16]. **Making** [For20, Bro96c]. **Man**  
 [Dys05, Dys11a, Fey33, Lan11, Res18, RS12, Kra11b, Jac20, Ish19].  
**Manhattan** [HHW99]. **manipulation** [BS96]. **Many**  
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 [Kai05a, Mat67, Mat76, Mat92]. **Mapping** [EFK<sup>+</sup>62]. **Marcolli** [Ben11].  
**Marie** [Hor00, Oni15]. **Markvart** [SGT<sup>+</sup>95]. **Mary** [Kai01]. **Maser**  
 [FVH57]. **masers** [Fey10b]. **Mass** [FS54]. **massless** [Fey71c]. **Materials**  
 [FW46, SGT<sup>+</sup>95]. **Materials/Mönch** [SGT<sup>+</sup>95]. **Math** [Ano39, Pic17d].  
**Mathematical** [AHK76, AHKM08, Fey50, Her13, Maz09, FRRZ04].  
**Mathematics** [Ano35, CHT15, Stö18, FF91, Fey65b, Fey65c, Fey69a, War12].  
**Mathematische** [SGT<sup>+</sup>95]. **Matilde** [Ben11]. **Matrix** [FKR71]. **Matter**  
 [Ano11a, Ano11b, Fey13, MB11b, Pin89, Wüt11a, Wüt11f, FLS64, Fey88d,  
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 [Fis10, Fis12, Fis10, Fis12]. **Maxwell** [Dys90]. **May** [Meh02]. **Meadows**  
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**Mechanical** [CHS97, Fey84, Fey86a, Ano02, Fey65f, Fey85b, Fey86c, Fey87b].

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[Aro97, DP04, Fey42, Fey48c, Fey78, FRRZ04, Leb73, Mul74, Pic17a, Pic17c, Wei66, Wüt11j, Dir33, DR93, Fey51a, Fey55b, FLS65a, FH65, FLS66, FH68, Fey72d, FH93, Fey98c, Fey10b, FHS10, Fie06, For07, Fri11, Lin66, Mill12].

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**Medalist** [Lit89]. **Meets** [BBdTF25]. **Mehra** [SGT<sup>+</sup>95, Tay97, Cus96].

**mekhanika** [FLS78, FH68, Fey78]. **mekhaniki** [FLS76a]. **Memorial**

[And88, Ano89, FW87]. **Memories** [BR93, Hey96]. **Men**

[Bro96b, Bro96c, Sax94, SGT<sup>+</sup>95, Way95, Eds67, Sch94a]. **Merely** [Ber01].

**Meson** [FHRK51, LF52, LF54]. **mesons** [Fey51b, FF77, Fey51b]. **Method**

[Sla72, GN87]. **methods** [HM24]. **Meÿenn** [SGT<sup>+</sup>95]. **Michelle**

[Dys05, Ano05, Bro06]. **Milestones** [Wüt11b]. **millennium** [Fey10a]. **Miller**

[SGT<sup>+</sup>95]. **Mills** [Fey71c, Fey81]. **mind** [II08, Bus10]. **Minds** [Bro00b].

**misspelling** [Ano87]. **Mobility** [FHIP62]. **Model** [Fey54a, FKR71].

**Modeling** [Stö18]. **Modelling** [Gal98, Wüt18]. **Models** [Stö17, Wüt12].

**modern** [Fey66e]. **Modest** [Ano65a]. **Molecules** [Fey39a, Fey39b]. **moment**

[Fey57b]. **momenta** [FFF77]. **momentum** [Fey77a, FFF78, FF77]. **Mönch**

[SGT<sup>+</sup>95]. **monograph** [Ben11, Bus10]. **Monsieur** [Fey00b]. **Moringo**

[Ano03b]. **Most** [BR93, Rog10, FLS95, Fey11c, Haw11]. **Motion**

[Fey65f, Fey91a, GFG97]. **motives** [Mar10, Ben11]. **Mr**

[FLH85b, FLH85a, FL14, Mill12, RS11, Sac85, Tei86]. **Mr.**

[FL87b, FL14, Fri11]. **multi** [Gro07]. **multi-loop** [Gro07]. **multiverse**

[Bro00b]. **mutants** [EFK<sup>+</sup>62]. **My** [Lig19]. **Myrick**

[Dys11a, Oni15, Roe12, Gro14]. **Mystery** [Sta97, FR98, dDD<sup>+</sup>19]. **myths**

[Bro96c]. **myths-in-the-making** [Bro96c].

**N.Y.U.** [Ano35]. **Nachdruck** [FH69]. **name** [Ano87]. **Nation** [Ano39].

**Nation-Wide** [Ano39]. **Nature** [DR18, Gal98, Fey65f]. **Naturwissenschaft**

[Fey86e]. **nauka** [FLS76a]. **Near** [Fey53b, Pup02]. **Negative** [Fey87a]. **Net**

[Ano96]. **Netze** [SGT<sup>+</sup>95]. **Netze/Enz** [SGT<sup>+</sup>95]. **neugierigen** [FL14].

**Neuronaler** [SGT<sup>+</sup>95]. **neutrino** [Fie06]. **neutrinos** [Fey72b]. **Neutron**

[FW46, FS54, FdHS55, FdHS56]. **Neutrons** [CF57]. **Newton**

[Mil12, Fri11, SNA<sup>+</sup>06]. **No** [Ano93, Syk94, Fey63b, Fey89c]. **Nobel**

[Dai67, Fey64e, Ano65a, Ano65c, Bri95a, Dys65, SS98, SAY<sup>+</sup>82].

**nobelevskoj** [Dai67]. **Non** [Fey48c, Ano89]. **Non-Relativistic** [Fey48c].

**non-technical** [Ano89]. **North** [DMR57]. **Norton** [Dys11a, Lan11, RS12].

**Not-so-easy** [Fey97, Fey11d]. **notable** [Wol16]. **notacao** [Fey51d]. **notation**

[Fey51d]. **Note** [Dys11b, Fey62a, Fey62b, FHH<sup>+</sup>62, Fey95]. **Notes**

[RS11, RS12, BCKT09, FH69]. **Nothing** [Mor95, Wea16, Ryc17]. **nova**

[Fey51d]. **noyaux** [Cos50]. **Nuclear** [Fey53f, Fey05b, Usd09, Bet91b].

**number** [Kan18]. **numbers** [Nog17a, Nog17b, War12].

**o** [FLS76a, Fey51d]. **obeying** [Ano02, Fey87b]. **Obituary** [Bet88]. **Objects**

[FW20]. **Observations** [Ber01, Fey86d]. **Oersted** [Lit89]. **Off** [Fey48b, Fey48d, FC82]. **off-diagonal** [FC82]. **Office** [GM89, Paz89]. **Olum** [Rel22, Rel23]. **on-shell** [FT92]. **One** [Fey88b, Kra11a, Gro07, vO91]. **one-loop** [vO91]. **Open** [Fey56b, FRRZ04, Str08]. **operacional** [Fey51d]. **Operational** [Jef04, Fey51d, JL86]. **Operator** [Fey51c, MW66, Wüt11j]. **Oppenheimer** [Anoxx, Kai02, MS15, PC06]. **optics** [Fie06]. **Oracle** [Ano65b]. **order** [Kan95]. **Ordinary** [Ano93, Syk94]. **Origin** [Wüt11h, Sau08]. **original** [FH69]. **Originalarbeiten** [FH69]. **oscillations** [Fie06]. **Other** [Dre89, Fey64d, Mer16, Spe91, Bri95a, FL88]. **Ottaviani** [Dys11a, Gro14, Oni15, Roe12]. **our** [Wil75]. **Outsider** [Fey88c]. **Owen** [Ryc17]. **Oxford** [Noe11, Tay97].

**P** [And88, Ano35, Ano54a, Ano88, Ano03b, Bet91a, Bro06, Dre89, Dys98, Dys05, Fey64e, Fey72d, FF95, Fey98a, FR99, Fey00c, FRRZ04, FR05, Fey05a, For20, Goo89, Haf65, Hut68, Leb73, Lin66, Lit89, Mul74, Sac85, Sch06, Spe91, Tei86, Tre64, Vis51, Wei66, Wei88, Ryc17]. **package** [FT92, Sem98, Sem09, Sem16, vO91]. **Page** [SGT+95]. **pages** [Ano99, Ano03a, Ano03b, Bro06, DeV00, Lep07, Noe11]. **Panel** [TFJ+72]. **Papadimitriou** [Oni15]. **paper** [Lep07, Oni15]. **Paperback** [Wüt07, Bro96c, Kra08]. **Papers** [EFV03, Sch58, Sch03, Bro00c, Haw11]. **para** [Fey51d]. **Parallel** [TF04]. **parameterization** [FF78]. **parameters** [Wes93]. **parametric** [CK74]. **Part** [Pic17a, Pic17b, Pic17c, Pic17d]. **Particle** [BH83a, BH83b, Lar19, Mor04, BH82, DT16, Zic65]. **Particles** [And88, Fey47, FFF77, FFF78, FW87, Fis10, Fis12]. **partition** [FK86]. **Partons** [Bjo89, Fey70b, Fey74d, Fey82b, Fey72b]. **Passion** [CA15, CHS97]. **Passion-at-a-Distance** [CHS97]. **past** [Ber47, Fey91b]. **Pasta** [TSxx]. **Path** [AHK76, AHKM08, Her13, JP08, Sch89, Vel94, Wei66, BS96, Cra93, FH65, FH68, FH93, FHS10, Fie06, Maz09, Sau08, Str08]. **Paths** [Sta97, TVOT98]. **patterns** [Dys18]. **Paul** [For19]. **Pauli** [SGT+95]. **pedagogy** [Gro12]. **People** [Dre89, Spe91, FL88, Wol16]. **Perfectly** [Fey05a, Sch06, Bro06, Dys05]. **Perseus** [Ano99, DeV00]. **Personal** [Ber01, Fey86d, Bet91b, Wol16]. **Personalities** [Dyl20b, Gin01]. **perspective** [Bet91b]. **perspectives** [JP08, KN19, Wol16]. **Phenomena** [FHRK51, For24, Fey63b, Fey89c]. **Phillips** [Bet88, EFV03, Meh02, Muk11]. **Philosophy** [SGT+95]. **Philosophy/Mehra** [SGT+95]. **Photographic** [KYT+92]. **Photon** [Fey72c]. **Photon-hadron** [Fey72c]. **Physical** [Fey66d, Fey94b, Hal09, Hut68, MF56, Mic67, Fey65e, Fey70c, Fey12, Fie06, Mar06]. **Physicist** [Dyl20b, Gle88, Kra11a, Muk11, Ove08, FL14, KYT+92]. **Physicists** [Pic17d, Bre97, Cro01]. **Physics** [And88, Anoxx, BH83a, BH83b, Fey62c, Fey64e, Fey64d, FLS66, FLV69, Fey86b, Fey05b, FW20, Gin01, Haf65, Her13, Jac20, Kai02, Kai05b, Kra08, Lar19, Lin66, Lit89, MKR87, Pin89, Rat06, Res18, Ryc17, SS98, Sax94, SGT+95, Stö18, Ano65b, Ano65c, Ano89, Ano02, BH82, DT16, DMR57, FF91, Fey53f, Fey54b, Fey57b, FLS65b, Fey63c, FLS64, Fey64a, FLS65a, Fey82d, FW87, FLS89, FLS95, FRRZ04, FLS06,

FGL<sup>+</sup>06, Fey10b, Fey10a, Fey11c, FGL<sup>+</sup>12, FLS14, Haw11, Ish19, Jis13, Jis14, KLR13, Mlo03a, Stö22, Str11, Wea16, WH07, Zic65, Dai67, Dys65, Fey70a, Lep07, Cao06, Fre06, Tre64, Wüt07, Edw85, FGL<sup>+</sup>06].

**Physics/Markvart** [SGT<sup>+</sup>95]. **Physik** [SGT<sup>+</sup>95]. **Physik/Sutton** [SGT<sup>+</sup>95]. **physikalische** [Fey11b]. **physikalischer** [Fey10c]. **Physikers** [FL14]. **piano** [Bry09]. **Picture** [Dys11a, Wüt13a, Fey65f]. **Pictures** [Gro12]. **Picturing** [Mey18]. **Pieces** [Fey97, FLS95, Fey11c, Fey11d]. **Pierre** [Oni15]. **Pioneer** [Sta87]. **pioneers** [DR93]. **Places** [Ano39]. **Planck** [Fis10, Fis12, Fis10, Fis12]. **planets** [GFG97]. **play** [MB11a, Par03].

**Pleasure** [FR99, FR05, Fey00c, FRL01]. **Plenty** [Fey59a, Fey59b, Fey61c, Fey92, Fey11e, JR06]. **Pocono** [Fey48a]. **Poincaré** [HZ01]. **point** [FH74]. **Polar** [Fey55a, FHIP62, TF70, TF71]. **Polkinghorne** [Dys98, Sta98]. **popular** [War12]. **Pork** [Mer16]. **Portugal** [FRRZ04].

**Portuguese** [Fey51b, Fey51d, Fey53f, Fey63b, Fey89c, Fey05b]. **Positrons** [Fey49c, Fey49b]. **Postscript** [Sch94b]. **Postwar** [Cao06, Fre06, Kai05b, Kra08, Lep07, Wüt07]. **Potentiality** [CHS97]. **power** [Bet91b]. **Pp** [Kra08, Tay97, Bro96c, Dys98, Dys05, Dys11a, Ish19, Jac20, Oni15, Roe12, Wüt07]. **pp.** [Lan11]. **Practical** [Fey33, Gro07]. **practice** [FGL<sup>+</sup>12]. **premiu** [Dai67]. **Present** [Acz10, Fey65d, Fey69c, Fey54b, Fey61d]. **presentation** [Nob72]. **Press** [Ano3a, Ano3b, Bro96c, Cao06, Dys98, Kra08, Lep07, Noe11, Ryc17, Tay97, Wüt07]. **Price** [Roe12, Lee94, Lee95].

**Princeton** [Bro96c]. **Principle** [Fey42, Fey88a, She05, Spe91]. **priode** [FLS76a]. **Prize** [Ano39, Dai67, Dys65, Fey64e, Ano65c]. **Prizes** [Ano35]. **probabilistic** [Stö22]. **Probability** [Fey65f, Fey51a, Fey87a]. **Probably** [TSxx, Bre97]. **Problem** [Kai05a, Wüt18, Fey63c, FGL<sup>+</sup>06, Mat67, Mat76, Mat92]. **problem-solving** [FGL<sup>+</sup>06]. **Problems** [FVH57, Fey71c, Gin01, Str08]. **proceedings** [FRRZ04, JP08]. **Processes** [Fey59c, Sch94c, Fey61b, Fey62b, Fey95, Sch86]. **processing** [Fri14]. **processor** [MD02]. **produced** [FFF77]. **production** [FFF78]. **professional** [Bus10]. **Professor** [Ano54b, FL84]. **Profound** [Bet91b]. **programs** [Wes93]. **Project** [HHW99]. **pronunciation** [Mer17]. **proof** [Dys90]. **Propagation** [Wüt11e]. **properties** [FF78]. **Prostranstvo** [FLS76a]. **Proton** [FS54, Fey74e]. **Proton-Neutron** [FS54]. **Pseudoscalar** [LF52, LF54]. **Psychology** [SAY<sup>+</sup>82]. **Pure** [DMR57]. **Putnam** [Ano39].

**QCD** [Gro07, Kan18]. **QED** [SGT<sup>+</sup>95, Bro96c, Dar19, Fey88d, Fey06b, Fey13, Gro07, Par03, Sas76, Sch94a, Hug86, Bro96b, Sax94, Way95]. **qualitative** [Fey81, Fey82c]. **Quantenchemie** [Hel37]. **Quantenelektrodynamik**. [FH69]. **Quantenmechanik** [For07, Jac10, Tür10]. **Quantensprung** [Fis10, Fis12]. **quantizing** [Fey71c]. **Quantum** [Aro97, BBdTF25, Bro00a, Bro05, CHS97, DP04, Fey42, Fey48d, Fey48c, Fey49a, Fey50, Fey51c, Fey61a, Fey62a, FH65, Fey66c, FLS66, FHH<sup>+</sup>62, FFF78, Fey84, Fey85b, Fey86c, Fey86a, FH93, FRRZ04, FBD05, Fey07a, FHS10, Fie06, For19, Hal17, Hel37, HW86, II08, Kra11b, Lin66,

Mil12, Pic17c, Pop98, Sch58, Sch89, Sch03, SGT<sup>+</sup>95, Sta97, Wei66, Wüt11i, Wüt11j, Wüt13a, Wüt18, Ano02, Bro00b, Dir33, DR93, Fey51a, Fey55b, Fey61d, Fey63a, FV63, Fey64b, Fey64c, Fey65f, Fey66a, Fey66b, Fey82c, Fey87b, Fey88a, Fey98b, FV00, Fey10b, Fis10, Fis12, For22, Fri11, Fri14, Haw11, KLR13, MD02, MB11a, Nog17a, Nog17b, Sca91, Stö22, Str11, TVOT98, Zeh11, FLS65a, FH68, FH69, For07, RS12, Bus10, Dys11a, Lan11]. **Quantum-chromodynamic** [FFF78]. **Quantum-Mechanical** [Fey84]. **Quark** [FKR71, Fey77c, FF77, Mer16, Eds67, FF78, Fie06, Mer17]. **Quarks** [Fey67b, Fey73, Hen10]. **Quest** [FL87a, Bro00b]. **quotable** [Hor00].

**R** [Ano54a, FRRZ04, Wei66]. **R.** [Ano35, Fey72d, Mul74, Vis51, Wei66]. **Radiation** [Ber47, Dys01, Lig19, WF45, Dys49, Dys58, Dys03]. **Radiative** [BF52, FW41]. **Radically** [Her13]. **Radioactive** [Oni15]. **rainbow** [Mlo03a]. **Ralph** [Par03, Dys91, Fey00b]. **Ramanujan** [AEMS10]. **rappports** [Hei62]. **Rays** [VF39]. **Reaction** [FW41]. **Reader** [Spe91]. **readers** [Mil12]. **Reading** [Ano99, DeV00]. **readings** [WH07]. **real** [FR98]. **Reality** [Hal17, For19]. **Reason** [Fey89b, Fai89]. **Reasonable** [Bro06, Dys05, Fey05a, Sch06]. **Receive** [Ano54b]. **Receives** [Ano35]. **Recruit** [Wil75]. **Redniss** [Oni15]. **REDUCE** [Cal72]. **reduction** [Stu10, Smi15]. **Reduce** [Stu10]. **reef** [Ano96]. **reference** [dDD<sup>+</sup>19]. **Reflections** [Gin01, FGL<sup>+</sup>12]. **Reflects** [Kra11a]. **Reichenbach** [Stö22]. **Reinterpreting** [Pri94]. **Relation** [Fey64d, Fey56a]. **Relativistic** [BBF53, Fey48b, Fey48d, Fey48c, FKR71]. **Relativitätstheorie** [SGT<sup>+</sup>95]. **Relativitätstheorie/Wong** [SGT<sup>+</sup>95]. **Relativity** [Pic17a, DT16, Fey11d, Fey64f, Fey97, HZ01]. **release** [BCKT09]. **Reliability** [Fey86d]. **Religion** [SF56, Fey56a]. **Remarks** [Sau08]. **Remembering** [BMGW88]. **Reminiscences** [BHB80, BFB82]. **renormalization** [Gro07]. **Reply** [Lee95, Pri94]. **Report** [Fey86d]. **Reports** [Hei62]. **Represent** [Mey08]. **Representation** [DR18, FVH57, Wüt11b, BC18, For24, Wüt13b]. **reprint** [Fey62a, FHH<sup>+</sup>62]. **reproduction** [FH69]. **Resag** [Ish19, Jac20]. **research** [Bus10]. **researcher** [Ben11]. **Reshaping** [Sax94]. **Resonance** [MF56]. **Response** [Sta98, BF46, dDD<sup>+</sup>19]. **returns** [Goo01]. **Revealed** [Usd09]. **Review** [And88, Ano99, Ano03a, Ano03b, Bro96b, Bro96c, Bro06, Cao06, Cus96, DeV00, Dre89, Dys91, Dys92, Dys98, For19, Fre06, Gro14, Haf65, Hug86, Ish19, Jac20, Kai01, Kra08, Lan11, Leb73, Lep07, Lin66, Mic67, Mul74, Noe11, Rat06, Roe12, Ryc17, Sac85, Sax94, Sch06, Spe91, Tei86, Tre64, Tür10, Way95, Wei66, Wüt07, Sta98, Tay97]. **Reviews** [Dys11a, Hut68, Jac10, KYT<sup>+</sup>92, Oni15, Ano96]. **revolution** [MD02]. **Revolutionized** [For19, Hal17]. **Rhymes** [Mer16]. **Richard** [Ano03b, Bro06, Cus96, Dys91, Dys92, Dys98, Dys05, Dys11a, For07, For19, Hor00, Jac10, Lan11, Lit89, Mic67, RS12, Sch06, SGT<sup>+</sup>95, Spe91, Tay97, Tür10, And88, Ano87, Ano88, Ano02, BMGW88, Bet88, Bet91a, Bri95b, BR93, Bro00c, Bro11, Bry09, Cec11, DB88a, Dav79, Dre89, Dur00, Dys11a, Dys11b, EFV03, Fey64e, Fey80a, Fey89a, Fey94a, FF95, Fey98a, FR99, Fey00c,

FR05, Fey05a, For07, For20, Gle88, Gle92, Goo89, GG00, GG97, Haf65, Hal17, Hen10, Hey96, Hey99b, Hil89, Hug86, Hut68, KYT<sup>+</sup>92, Kra11a, Kra11b, LeV10, Leb73, Lei00, Lin66, Lub89, Meh94, Meh02, MB11b, Muk11, Par03, Pin89, Sac85, Sch94c, Sch06, Syk94, Tei86, Tre64, Wei88, Whi16, Kai01]. **ride** [Dys79b]. **Ring** [Usd09]. **rire** [Fey00b]. **road** [Bet91b]. **Robert** [Haf65, Lin66, Tre64]. **Rockaway** [Ano35]. **Rogers** [Fey86d]. **role** [DMR57, Fey57c, Fey66e, Gro12]. **ROM** [KYT<sup>+</sup>92]. **Room** [Fey59a, Fey59b, Fey61c, Fey92, Fey11e, JR06]. **Rosenberg** [Usd09]. **rotational** [Fey55c]. **roton** [FC55]. **routine** [Lev90]. **Rules** [Eps55, CD09, CK74, Nog17a, Nog17b, Sem98, Sem09, Sem16]. **Russian** [Dai67, FH68, Fey78].

**S** [Bro96b, Bro96c, Way95]. **S43** [Ano03a]. **Said** [Mer04]. **SAMP** [FRRZ04]. **SAMP/ANESTOC** [FRRZ04]. **Sands** [Haf65, Lin66, Tre64]. **Santiago** [FRRZ04]. **Scale** [Usd09]. **Scattering** [BF52, CF57, VF39, Wüt11e, FF77]. **scherzen** [FL14]. **scholar** [Fey00a]. **School** [Ano35]. **Schrödinger** [FVH57]. **Schur** [AEMS10]. **Schweber** [Bro96c, SGT<sup>+</sup>95, Bro96b, Way95]. **Schwinger** [Bro96b, Bro96c, Dai67, Sax94, SGT<sup>+</sup>95, Way95, Dys49, Dys58, Dys65, Dys01, Dys03, Sch94b, Sch94a]. **Science** [AG02, Ber01, CA15, Cus96, Dyl20b, Dys92, Fey56b, Fey69e, Fey74b, Gle92, Jac20, Res18, SGT<sup>+</sup>95, SF56, Sta98, Tay97, Bet91b, Cec11, Fey55d, Fey56a, Fey57c, Fey86e, Fey07b, Fey11a, FR98, GG97, H<sup>+</sup>58, Ish19, Kra11b, Meh94, SNA<sup>+</sup>06, Dys98, RS12, Dys11a, Kai01, Lan11]. **Sciences** [Fey64d, Hal09, RS11]. **Scientific** [Dyl20a, Dyl20b, Fey90, Mer16, Fey66e, HG07, Haw11]. **Scientist** [Fey98d, Hor00, Dys98]. **Scientists** [Ber01, BLM19, Rog10, Bri95a, Hal09, Str11]. **Scope** [Ben11, Bus10, Mil12]. **Scorer** [Ano35]. **Search** [Oni15, Wüt13a, Eds67, KYT<sup>+</sup>92, Mlo03a]. **Searching** [dDD<sup>+</sup>19]. **Sechs** [Fey11b]. **Second** [Ano35, Ano39, Dys11a, Oni15, Roe12]. **Sector** [ST09]. **seeks** [Ano65b]. **Selected** [Bro00c, Sch58, Sch03]. **Semiconductor** [SGT<sup>+</sup>95]. **September** [JP08]. **Series** [Fey59c, BC18, JL86]. **Set** [Leb73, Mul74, Fey72d, Fey98c]. **sets** [RLER07]. **seven** [Bro98]. **shell** [FT92]. **SHELL2** [FT92]. **Shift** [BBF53]. **Shimony** [CHS97]. **shook** [Haw11]. **Short** [FR99, FR05, Fey00c]. **should** [Fey66e]. **Shuttle** [Fey86d]. **Shvinger** [Dai67]. **Silk** [Spe91]. **Silvan** [Bro96b, Way95, Bro96c]. **Simon** [Oni15]. **Simple** [Fey88b, FRL01, XWhZ13, XW15]. **Simplified** [Pic17a, Pic17b, Pic17c, Pic17d, Wan93]. **Simulating** [Fey82d]. **Simulation** [SGT<sup>+</sup>95, Ano02]. **situation** [Fey54b]. **Six** [FLS95, Fey97, Fey11c, Fey11d]. **sixtieth** [Kla72]. **Skeptic** [She05]. **slept** [Bre97]. **Slow** [Fey55a, FHIP62]. **small** [Bro98]. **smallest** [Fis10, Fis12]. **Smithsonian** [Oni15]. **sobre** [Fey51b]. **society** [Fey66e, Ano35]. **Solar** [SGT<sup>+</sup>95]. **Solid** [Fey63b, Fey89c]. **Sólido** [Fey63b, Fey89c]. **Solving** [FVH57, Rel22, Rel23, FGL<sup>+</sup>06]. **Some** [Bro96c, FPT70, Mlo03b, Wol16]. **Sommerfeld** [BC18]. **source** [FF77]. **Sourcebook** [SGT<sup>+</sup>95]. **Sourcebook/Schweber** [SGT<sup>+</sup>95]. **soustractif**

[Vis51]. **Soviet** [KIH04]. **Sovremennaya** [FLS76a]. **Space** [FW46, Fey48c, Fey49a, Fey66c, Fey97, Sch94c, CK74, Fey66a, Fey66b, Fey98b, Fey11d, Fie06, For22, Sch86, Str08]. **space-time** [Fie06, Sch86]. **Special** [Ano89, Lub89, Pic17a, DT16, Fey64f]. **Spectrum** [FC56]. **speeches** [Nob72]. **Split** [Kai05c]. **sploshnykh** [FLS77b]. **sponsorship** [DMR57]. **Spreading** [KIH04]. **Springer** [Ish19, Jac20]. **sred** [FLS77b]. **stage** [Goo01]. **staircase** [Fis10, Fis12]. **Stars** [VF39]. **State** [FMT47, FMT49b, Fey63b, Fey89c, FMT49a, Fey51b, FC55]. **States** [FPT70]. **Statistical** [Fey72d, Fey98c, FRRZ04, Leb73, Mul74, Pop98, Fey78]. **Statisticheskaja** [Fey78]. **status** [Fey61d, Fey65d, Fey69c]. **stay** [Feyxx, Sha17]. **Stephen** [Spe91]. **Steven** [And88]. **Stiff** [Bry09]. **Stiff-string** [Bry09]. **Stink** [Wüt18]. **Stochastic** [FRRZ04]. **storage** [Fey92]. **Stories** [CA15]. **storm** [Ano96]. **Story** [Acz10, Cao06, LeV10]. **Strange** [Fey13, MB11b, Ryc17, Fey88d, Fey06b, Wea16]. **stresses** [Fey39b]. **string** [Bry09]. **strong** [Fey65d, Fey67a, Fey69c]. **Structure** [Fey74e, SGT<sup>+</sup>95, BC18]. **Struggle** [Wüt11c, Wüt13b]. **student** [Bro11, Bus10]. **Studies** [CHS97]. **study** [Fis10, Fis12]. **Stuff** [BR93, Haw11]. **Subtle** [Noe11, Co010, Co015]. **subtractive** [Vis51]. **Successive** [Wüt11e]. **sum** [TVOT98]. **sum-over-paths** [TVOT98]. **Summary** [Fey74a]. **summation** [BKSS10, BKSS12]. **sun** [GFG97, HHW99]. **Superconductivity** [Fey57a, GG00]. **Superfluidity** [Fey57a]. **Superstrings** [DB88b]. **supplement** [FGL<sup>+</sup>06]. **Surely** [FLH85b, FLH85a, Fey86b, Sac85, Tei86, FL14]. **Surfaces** [SGT<sup>+</sup>95]. **surprise** [Wüt13b]. **Surprises** [San87, Tre16]. **Surveillance** [BLM19]. **survey** [H<sup>+</sup>58]. **Sutton** [SGT<sup>+</sup>95]. **Switzerland** [Jac20]. **Sycamore** [Dys11a, Roe12]. **Symbolic** [CH70, PJ95, BS96, BKSS10, BKSS12]. **Symmetries** [Zic65]. **Symmetry** [Fey66d, Fey97, Fey65a, Fey11d]. **system** [FV63, FV00]. **Systematization** [Wüt11d]. **Systems** [FRRZ04, Mor04, RS11].

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 Fey13, KIH04, Lee94, LF52, LF54, MB11b, Pri94, Wüt11d, Bry09, FMT49a,  
 Fey53d, Fey53e, Fey61b, Fey62b, Fey63a, FV63, Fey64b, Fey64c, Fey67a,  
 Fey81, Fey88d, Fey95, FV00, Fey06b, Sca91, Sem09, TVOT98, Vis51, Zeh11].  
**There** [Fey61c, Fey92, Fey11e, JR06, Sta97]. **Thesis** [Bro05, FBD05].  
**Think** [FR99, FR05, Cec11, Fey00c, FRL01, Str08]. **Think**  
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 [Ano39]. **Time** [Eps55, FF05, For19, Hal17, Rog10, Spe91, TSxx, Wil75,  
 Fey48c, Fey49a, Fey66a, Fey66b, Fey66c, Fey97, Fey98b, Fey11d, Fie06, For22,  
 Mlo03b, Sch86, Sch94c, Stö22]. **Time-Independent** [Eps55]. **times**  
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 SGT<sup>+</sup>95, Bro96b, Way95, Sax94]. **Tomorrow** [SAY<sup>+</sup>82]. **too** [Mor95]. **tool**  
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**Traditions** [KLR13]. **traektoriám** [FH68]. **trains** [Feyxx, Sha17].  
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**Vergnügen** [FRL01]. **version** [XW15, BCKT09, Sem09, Sem16]. **Very**  
 [Fey69d, Bro98, Fey06a]. **View**  
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