

# 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].  $\lambda$  [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].

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

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

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

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

**8** [Roe12].

**9** [BFB82]. **978** [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]. **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]. **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]. **among** [FFF77]. **Amplifier** [BF46]. **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** [Fey46, Fey55b, Fey69a, Wüt13b]. **Applications** [Fey51c, Mor04, Mar06, Maz09, Sca91]. **Applied** [DMR57]. **applying** [Fey88a]. **Approach** [Bro05, Cal72, Fey48c, Fey49a, FBD05, ST09, BKSS10, BKSS12, Cra93, FFF78]. **approximated** [BC18]. **Archibald** [Kla72]. **Art** [Roe12, Ano96, Dys11a, FF95]. **articles** [Ano89]. **Artist** [Fey89a]. **aspects** [Sim80]. **astounding** [Haw11]. **astronomy** [FF91]. **Atomic** [Edw85, Fey53d, Fey53b, Fey53e, Fey53c, Fey54a, Oni15, Bet91b]. **Atoms** [Fey91a, Bro98]. **atual** [Fey51b]. **Audio** [Rat06]. **auroras** [Fey15]. **autobiography** [Dys18]. **automated** [BFK98]. **Automatic** [Nog93, Sas76, Wan93, dALM<sup>+</sup>12, Sem98, Sem09, Sem16, XWhZ13]. **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** [Pic17d, FR99, Fey00c, Fey06a]. **Bethe** [Goo99, Kai05a]. **between** [Cos50, Stö18]. **Big** [Spe91]. **Biographies** [Wei88, Nob72]. **Biography** [Fey64e, Fey98a, Oni15]. **Birth** [BH83a, BH83b, BH82]. **birthday** [Kla72]. **bis** [Fis10, Fis12]. **Black** [Ove08, Spe91]. **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, Fre06, Gro14, Haf65, Hug86, Hut68, 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, 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, Kai02]. **CERN** [Acz10]. **Challenger** [DE88, Fey88c]. **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]. **Citizen** [Dys98, Fey98d]. **City** [Ano39]. **Classic** [FL06]. **Classical** [Fey48b, WF49, FK86]. **Climbing** [Kai05a]. **Closed** [Fey71a]. **cloth** [Bro06, 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, HF<sup>+</sup>96, Hey99b, HF02, Sei00, TF04]. **computations** [dALM<sup>+</sup>12].  
**Computer** [San87, Ano02, Bro00b, CH70]. **Computers**  
 [Fey84, Fey86a, Hey99a, Ano02, Fey82d, Fey85b, Fey86c, Fey87c, HF02, Sei00,  
 DeV00, Ano99, Ano03a]. **computing** [Fey85a, MD02]. **Concept**  
 [Noe11, Co010, Co015, 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, Fey87a]. **Correlations** [BF52]. **Corrections** [FFF77, Fey77a].  
**Cosmic** [VF39]. **Cosmological** [Spe91]. **Cosmology** [Spe91]. **cosmos**  
 [Dan00]. **Counting** [Kan18]. **coupling** [Kan95]. **Course** [Fey78, DT16].  
**Creation** [Acz10]. **Creativity** [Fey80a]. **creators** [Str11]. **Crystal**  
 [Fey55a, FHIP62, TF70, TF71]. **Cult** [Fey74b]. **culture** [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**  
 [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, Wüt13b]. **Deviations**  
 [Bro06, Dys05, Fey05a, Sch06]. **diagonal** [FC82]. **diagram**  
 [BFK98, Jis13, Jis14, Lai98, TF00, XWhZ13, XW15, dALM<sup>+</sup>12].  
**Diagrammatica** [Vel94]. **Diagrams** [Bro18a, Cal72, DR18, Fre06, KIH04,  
 Kai05a, Kai05b, Kra08, Lep07, Mey08, Mey18, Stöl17, Stöl18, Vel94, Wüt07,  
 Wüt11g, Wüt11h, Wüt11i, Wüt12, ABD<sup>+</sup>18, Bil74, BT04, BCKT09, CH70,  
 Cao06, DT16, Fey71a, FT92, Gro12, Gro07, HL08, JL86, Kre00, Lev90,  
 Mar06, Mat67, Mat76, Mat92, Ohl95, Sca91, TF04, Wan93, vO91]. **DIANA**  
 [TF00, TF04]. **dice** [MB11a]. **Dick** [GM89, Ral06]. **Difference** [FS54].  
**Different** [Cus96, Tay97, Wüt18, Meh94, SGT<sup>+</sup>95]. **differential** [Mar06].

**Difficulties** [Fey88a]. **Diffusion** [FW46]. **Digital** [Ano96]. **dignified** [FL84].  
**dimensions** [Fey81, Fey82c]. **Dinge** [FRL01]. **Dining** [Cha89].  
**d'interaction** [Vis51]. **d'Inverno** [SGT<sup>+</sup>95]. **Dirac**  
 [And88, Bus10, DR93, FW87, II08, Wüt11c]. **Direct** [WF49]. **Directions**  
 [MKR87, Spe91]. **discourse** [Edw85]. **Discovery**  
 [CA15, Noe11, Co010, Co015]. **discrete** [DT08]. **Discussing** [Mil12, Fri11].  
**Discussion** [Ber47, Hei62, TFJ<sup>+</sup>72, Fey82c, Hei62]. **Dispersion**  
 [Cao06, FdHS55, FdHS56, Fre06, Kai05b, Kra08, Lep07, Wüt07].  
**Dispositions** [Aro97]. **dissipative** [FV63, FV00]. **Distance** [CHS97].  
**Distinction** [Fey91b]. **Disturbing** [Dys79a]. **Divergence** [Wüt13a].  
**Divergence-Free** [Wüt13a]. **Diversions** [Mer16]. **Do**  
 [Ano39, Bro18a, Dre89, Spe91, FL88]. **does** [MB11a]. **done** [Str08]. **Don't**  
 [FF05]. **Down** [GM89]. **Doxiadis** [Oni15]. **Dr** [Ano54a]. **Dramatic**  
 [Dys11a]. **Drawing** [Kai05b, Kra08, Ohl95, BT04, BCKT09, HL08, Lev90,  
 Fre06, Lep07, Cao06, Wüt07]. **dreams** [Haw11]. **Dresden** [JP08]. **Drum**  
 [Cus96, SGT<sup>+</sup>95, Tay97, Meh94]. **Dvizhenie** [FLS76a]. **Dynamics** [Cha89].  
**Dyson** [Bro96b, Bro96c, Sax94, SGT<sup>+</sup>95, Spe91, Way95, CK74, Eps55,  
 Hur52, JL86, Kai05c, Sch94b, Sch94a, Sta98, Wüt13b].  
  
**Early** [SGT<sup>+</sup>95, Gro12, Wüt13b]. **Earth** [UMF16]. **easy**  
 [CD09, FLS95, Fey97, Fey11c, Fey11d]. **EasyFeynDiag** [XW15]. **ed**  
 [Bro06, DeV00]. **Edited** [Ano99, Ano03a, Ano03b, Dys05]. **Edition**  
 [Fey70a, Fey10a]. **Editor** [FD93, Lai98, Fey67b]. **education** [Cec11].  
**Effective** [FK86]. **einfach** [FRL01]. **Einführung** [SGT<sup>+</sup>95, Hel37].  
**Einstein** [Hor00, Mil12, RS11, Ano54a, Ano54b, Anoxx, Co010, Co015, Fey97,  
 Fri11, Kai02, Noe11, Sau08, SNA<sup>+</sup>06]. **Einstein's** [Fey11d]. **elastic** [FF77].  
**Electric** [TF70, TF71]. **Electricity** [SGT<sup>+</sup>95]. **Electricity/Zell** [SGT<sup>+</sup>95].  
**Electrodynamics** [Ano54b, Fey48b, Fey48d, Fey49a, Fey51c, Fey66c, Sch58,  
 Sch89, Sch03, SGT<sup>+</sup>95, WF49, Wüt11i, Wüt13a, Wüt18, Fey61d, Fey61a,  
 Fey62a, Fey66a, Fey66b, FH69, FHH<sup>+</sup>62, Fey98b]. **Electromagnetic**  
 [Fey50, Fey65d, Fey69c]. **Electromagnetism** [Pic17b, FLS64, Fey10b].  
**Electron** [TF70, TF71]. **Electronic** [SGT<sup>+</sup>95]. **Electrons** [Fey55a, FHIP62].  
**Elektrichestvo** [FLS77a]. **Elektrodinamika** [FL77]. **Elementary**  
 [And88, BH83a, Fey62c, FW87, Her13, Lar19, BH82, Zic65].  
**elementary-particle** [BH82]. **Elements**  
 [FMT47, FMT49b, FKR71, FMT49a]. **elliptic** [ABD<sup>+</sup>18]. **Emission**  
 [FdHS55, FdHS56]. **Energias** [Fey72a]. **energies** [Fey69b]. **Energy**  
 [Co010, Co015, 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]. **evaluate** [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]. **Exploring** [Ano99, Ano03a, DeV00, Hey99a, HF02, Sei00]. **expressing** [Wes93]. **Extended** [Fey70a, XW15]. **Extension** [Pop98]. **Extraordinary** [Muk11]. **extreme** [Fey69b].

**F** [Fey86d]. **failings** [Cre14]. **Fallout** [Oni15]. **Fantasy** [Fey80a, Fey00a]. **Far** [Ano35]. **Faraday** [CHT15, Tre16]. **fast** [XW15]. **Father** [FD93]. **February** [Meh02]. **Feinmanovskie** [FLS76a, FLS76b, FLS77b, FLS77a, FL77, FLS78]. **Fejnman** [Dai67]. **Fenômenos** [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, Fre06, Haf65, Hor00, Hug86, Hut68, Kai01, Kan95, 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, Ano88, Ano89, Ano96, Ano02, Ano05, Anoxx, Aro97, BMGW88, Bee80, Ber47, Bet91a, Bet93, Bil74, BT04, BCKT09, Bjo89, BKSS10, BKSS12, Bri95b, Bro98, BR93, Bro00a, Bro00c, Bro05, Bro11, Bro18a, BFK98, Bry09, Cal72, CH70, Cao06, Cec11, Cha89, CD09, Co010, Co015, Cos50, Cra93, Cre14, CP14, CK74, DT16, DB88a, Dav79, DeV00].

**Feynman** [DR18, DT08, Dur00, DR93, 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, Fey05a, FL06, FLS06, FGL<sup>+</sup>06, Fey06a, Fey10b, Fey10a, FGL<sup>+</sup>12, FL14, FLS14, Fie06, FT92, For07, Fri11, Fri14, Gal98, GN87, GM89, Gle88, Gle92, Goo89, GFG97, GG00, Goo01, GG97, Gro12, Gro07, HL08, Hal17, Hei62, Hen10, Her13, HF<sup>+</sup>96, Hey96, Hey99a, Hey99b, HF02, Hil89, Hur52, II08, Jef04, Jis13, Jis14, JL86, Kai02, KIH04, Kai05a, Kai05b, Kai05c, Kan18, KYT<sup>+</sup>92, Kra11, Kre00, Lai98, LeV10, Lee94, Lee95, Lei00].

**Feynman** [Lev90, Lub89, Mar06, Mar10, Mat67, Mat76, Mat92, Maz09, Meh94, Mer17, Mey08, Mey18, Mic67, MD02, MW66, Mlo03a, Mlo03b, MB11b, Mor04, Muk11, NC89, Nog93, Nog17a, Nog17b, Ohl95, Oni15, Ott11, OM13, Par03, Paz89, Pic17a, Pic17b, Pic17c, Pic17d, Pin89, Pop98, Pri94, Pup02, 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, Str08, Stu10, Sty11, Syk94, Tay97, Tel89, TF00, TF04, Vel94, Vis51, Wan93,

Wei88, Wes93, Whe89, Whi16, Wüt11c, Wüt11d, Wüt11g, Wüt11h, Wüt11i, Wüt12, Wüt13a, Wüt13b, Wüt18, XWhZ13, XW15, Zeh11, dALM<sup>+</sup>12, vO91, Cus96, Dys92, Dys05, Jac10, Sch06, Tür10, Ano03b]. **Feynman** [Ben11, FGL<sup>+</sup>06, Gro14, Ano99, Ano03a]. **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, Fey71c, Fey88a, Sem09, Vis51]. **FIESTA** [ST09]. **Fifty** [CP14]. **Film** [Hut68]. **finding** [FR99, 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** [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]. **Fritzsich** [RS11, Mil12]. **Front** [Ano11b, SGT<sup>+</sup>95, Wüt11f]. **Frontiers** [H<sup>+</sup>58]. **frosch** [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]. **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]. **Genius** [Ano93, Bri95a, Fey80a, Gle92, SNA<sup>+</sup>06, Syk94, Fey00a, Dys92]. **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** [Ano35]. **Good** [BR93]. **graduate** [Bus10]. **grandeurs** [Cos50]. **Graph** [Nog93, Kan95]. **Graphic** [Oni15]. **graphical** [BT04, BCKT09]. **graphics** [Lev90]. **Graphs** [Hur52, Kan18, Sas76]. **Gravitation** [Fey71b, FHM03, DMR57, Fey63a, Fey64b, Fey64c, FMWH95, Ano03b]. **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]. **Hamiltonian** [Wüt11j]. **Hancock** [SGT+95]. **Hancock-Beaulieu** [SGT+95]. **Hans** [Goo99]. **Harald** [Mil12, RS11]. **hardback** [Tay97]. **Hardbound** [DeV00]. **hardcover** [Oni15]. **Harper** [Oni15]. **Hatfield** [Ano03b]. **Having** [Fey51c]. **Hawking** [Spe91, Cro01, Dan00]. **Heisenberg** [Mil12, Bre97, Fri11]. **Heitler** [Hei62]. **helicity** [dALM+12]. **Helium** [CF57, Fey53b, Fey53c, Fey53a, Fey54a, Fey55c, FC56, Fey53d, Fey53e, Fey55b, FC55, Fey58]. **Hellmann** [Bee80, FC82, GN87, Pop98, Pup02, RLER07, Sla72]. **Heraclitus** [Dan00]. **Here** [Ano39, Bre97]. **Heuristics** [Wüt13a]. **Hey** [Ano99, Ano03a, DeV00]. **Hibbs** [Wei66, Sty11]. **High** [Ano35, FHRK51, Fey69d, Fey77a, FF77, RLER07]. **High-Energy** [Fey69d]. **high-transverse-momentum** [FF77]. **Highest** [Ano35]. **Hilary** [Dys11a, Roe12]. **Hill** [DMR57, Oni15]. **Hintertreppe** [Fis10, Fis12]. **historic** [Fey57b]. **Historical** [Dys11b]. **Histories** [Oni15]. **History** [GG00, Oni15, Spe91, KLR13]. **Hole** [Ove08]. **Holes** [Spe91]. **honor** [Kla72]. **Honors** [Ano35]. **House** [Ral06]. **HQ** [KLR13]. **HQ-3** [KLR13]. **Human** [Bus10, II08]. **humbly** [Ano65b]. **hypergeometric** [ABD+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** [Usd09]. **Industrial-Scale** [Usd09]. **Inelastic** [CF57]. **Infinite** [Spe91]. **Infinitesimal** [Fey93]. **Infinity** [Bro96a]. **influential** [Rog10]. **information** [Fri14]. **Inquiry** [Fey88c]. **insights** [FGL+12]. **inspiration** [Ano65b]. **inspired** [Par03]. **Integral** [ST09, Smi15, BKSS12, DT08, JL86, Sim80, Stu10]. **Integrals** [AHK76, AHKM08, Her13, ABD+18, BKSS10, FH65, FH68, FH93, FHS10, JP08, Maz09, Str08, Wes93, Wei66]. **integrally** [FH68]. **integration** [Cra93, Sau08]. **Integrity** [Fey90]. **Interacting** [Mor04, FV63, FV00]. **Interaction** [Fey50, FGM58, FG92, WF45, Vis51]. **interactions** [Fey65a, Fey65d, Fey67a, Fey69c, Fey72c]. **interest** [Mil12]. **interface** [BT04, BCKT09]. **Interfaces** [SGT+95]. **Interfaces/Meadows** [SGT+95]. **International** [DMR57, JP08, KLR13]. **Interparticle** [WF49]. **Interpretation** [Wüt11h, Zeh11]. **Interpreting** [Wüt12]. **Interprets** [Fey80a]. **Interview** [Ano05, Dav79]. **Introduction** [AHKM08, Bil74, Bro18b, Lar19, Wüt11h, Dys05, Hel37]. **Introductory** [FLV69]. **Intuitive** [Lar19]. **invariance** [HZ01]. **Invention** [CA15]. **IP** [KYT+92]. **ISBN** [Bro96c, Kra08, Oni15, Roe12, Ryc17, Tay97, Wüt07]. **Issue** [Lub89, Ano89]. **Iterated** [ABD+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, Kai01, Spe91, Hal17, Kla72, Ove08]. **Joking** [FLH85b, FLH85a, Fey86b, FL14, Sac85, Tei86]. **Jonathan** [Oni15]. **Joseph** [Spe91]. **Journey** [Lei00, Dys91]. **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]. **Krieg** [For07, Jac10, Tür10]. **kurs** [Fey78]. **Kvantovaia** [FH68]. **Kvantovaya** [FLS78]. **Kvanty** [FLS76b].

**L** [Ano39, Gro14]. **L.** [Cos50]. **Lab** [Dys98]. **Labyrinth** [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, RS12]. **Laws** [And88, Fey66d, Ano02, FW87, Fey87c]. **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, FGL<sup>+</sup>06, Gro07, Haf65, Lin66, Rat06, SS98, Tre64, Ano03b, FLS65b, FLS64, FLS65a, Fey72d, FW87, FLS89, FMWH95, FHA96, Fey98c, FLS06, Fey10b, Fey10a, FLS14, Gro12, HF<sup>+</sup>96, 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]. **Letter** [Fer52, Fey67b]. **Letters** [Bro06, Dys05, FD93, Fey05a, Sch06, SF56, Dys18]. **Level** [Ben11, Bus10, Mil12]. **Levels** [Wüt18]. **Leyland** [Oni15]. **libraries** [dALM<sup>+</sup>12]. **Lies** [KYT<sup>+</sup>92]. **Life** [Cus96, Dys92, Dys11a, Gle92, Kai01, Lan11, RS12, SGT<sup>+</sup>95, Tay97, Ano89, Cro01, GG97, Kra11, Meh94, Mlo03a, PC06]. **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** [HZ01]. **lost** [GFG97]. **Louis** [Vis51]. **Love** [Oni15]. **Lowbrow** [Tel89]. **luminaries** [Bri95a].

**M** [Dys11a, Lan11]. **M.I.T.** [Ano39]. **MA** [Ano99, Ano03a]. **Machine** [Hil89]. **machinery** [Fey93]. **machines** [Bro00b, Fey85a]. **Made** [Bro96b, Bro96c, Sax94, Way95, CD09, Haw11, Sch94a, SGT+95]. **Magic** [Kla72]. **Magnetic** [NC89]. **magnetizm** [FLS77a]. **magnitudes** [Cos50]. **Mai** [FLS70]. **Mainly** [FLS64]. **Maker** [Dys18]. **Makers** [AG02, Wol16]. **making** [Bro96c]. **Man** [Dys05, Dys11a, Fey33, Lan11, RS12, Kra11]. **Manhattan** [HHW99]. **Many** [Kai05a, Mat67, Mat76, Mat92]. **Many-Body** [Kai05a, Mat67, Mat76, Mat92]. **Mapping** [EFK+62]. **Marcolli** [Ben11]. **Marie** [Hor00, Oni15]. **Markvart** [SGT+95]. **Mary** [Kai01]. **Maser** [FVH57]. **masers** [Fey10b]. **Mass** [FS54]. **massless** [Fey71c]. **Materials** [FW46, SGT+95]. **Materials/Mönch** [SGT+95]. **Math** [Ano39, Pic17d]. **Mathematical** [AHK76, AHKM08, Fey50, Her13, Maz09, FRRZ04]. **Mathematics** [Ano35, CHT15, Stö18, FF91, Fey65b, Fey65c, Fey69a, War12]. **Mathematische** [SGT+95]. **Matilde** [Ben11]. **Matrix** [FKR71]. **Matter** [Ano11a, Ano11b, Fey13, MB11b, Pin89, Wüt11a, Wüt11f, FLS64, Fey88d, Fey06b, Fie06, Jis13, Jis14, WH07]. **Matthew** [Haf65, Lin66, Tre64]. **Max** [Fis10, Fis12, Fis10, Fis12]. **Maxwell** [Dys90]. **May** [Meh02]. **Meadows** [SGT+95]. **Meaning** [Dys98, Fey98d]. **Means** [Wüt11b, Wüt13b]. **Mechanical** [CHS97, Fey84, Fey86a, Ano02, Fey65f, Fey85b, Fey86c, Fey87c]. **Mechanics** [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, Mil12]. **Mechanism** [FW41, WF45]. **Mechanistic** [Wüt18]. **Medal** [Ano35]. **Mehra** [SGT+95, Tay97, Cus96]. **mekhanika** [FLS78, FH68, Fey78]. **mekhaniki** [FLS76a]. **Memorial** [And88, Ano89, FW87]. **Memories** [BR93, Hey96]. **Men** [Bro96b, Bro96c, Sax94, SGT+95, Way95, Eds67, Sch94a]. **Merely** [Ber01]. **Meson** [FHRK51, LF52, LF54]. **mesons** [Fey51b, FF77, Fey51b]. **Method** [Sla72, GN87]. **Meÿenn** [SGT+95]. **Michelle** [Dys05, Ano05, Bro06]. **Milestones** [Wüt11b]. **millennium** [Fey10a]. **Miller** [SGT+95]. **Mills** [Fey71c, Fey81]. **mind** [II08, Bus10]. **Minds** [Bro00b]. **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+95]. **monograph** [Ben11, Bus10]. **Monsieur** [Fey00b]. **Moringo** [Ano03b]. **Most** [BR93, FLS95, Fey11c, Haw11, Rog10]. **Motion** [Fey65f, Fey91a, GFG97]. **motives** [Mar10, Ben11]. **Mr** [FLH85b, FLH85a, FL14, Mil12, RS11, Sac85, Tei86]. **Mr.**

[FL87b, FL14, Fri11]. **multi** [Gro07]. **multi-loop** [Gro07]. **multiverse** [Bro00b]. **mutants** [EFK<sup>+</sup>62]. **Myrick** [Dys11a, Oni15, Roe12, Gro14]. **Mystery** [Sta97, FR98]. **myths** [Bro96c]. **myths-in-the-making** [Bro96c].

**N.Y.U.** [Ano35]. **Nachdruck** [FH69]. **Nation** [Ano39]. **Nation-Wide** [Ano39]. **Nature** [DR18, Gal98, Fey65f]. **Naturwissenschaft** [Fey86e]. **nauka** [FLS76a]. **Near** [Fey53b, Pup02]. **Negative** [Fey87b]. **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, Fey87c]. **Obituary** [Bet88]. **Observations** [Ber01, Fey86d]. **Off** [Fey48b, Fey48d, FC82]. **off-diagonal** [FC82]. **Office** [GM89, Paz89]. **on-shell** [FT92]. **One** [Fey88b, Gro07, vO91]. **one-** [Gro07]. **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, Fey05a, Goo89, Haf65, Hut68, Leb73, Lin66, Mul74, Sac85, Sch06, Spe91, Tei86, Tre64, Vis51, Wei66, Wei88, Ryc17]. **package** [FT92, Sem98, Sem09, Sem16, vO91]. **Page** [SGT<sup>+</sup>95]. **pages** [Ano99, Ano03a, Ano03b, Bro06, DeV00, Lep07, Noe11]. **Panel** [TFJ<sup>+</sup>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, Cra93, FH65, FH68, FH93, FHS10, Fie06, Maz09, Sau08, Str08]. **Paths** [Sta97]. **patterns** [Dys18]. **Pauli** [SGT<sup>+</sup>95]. **pedagogy** [Gro12]. **People** [Dre89, Spe91, FL88, Wol16]. **Perfectly** [Fey05a, Sch06, Bro06, Dys05]. **Perseus** [Ano99, DeV00]. **Personal** [Ber01, Fey86d, Bet91b, Wol16]. **perspective** [Bet91b]. **perspectives** [JP08, Wol16]. **Phenomena** [FHRK51, Fey63b, Fey89c]. **Phillips** [Bet88, EFV03, Meh02, Muk11]. **Philosophy** [SGT<sup>+</sup>95]. **Philosophy/Mehra** [SGT<sup>+</sup>95]. **Photographic** [KYT<sup>+</sup>92]. **Photon** [Fey72c]. **Photon-hadron** [Fey72c]. **Physical** [Fey66d, Fey94b, Hal09, Hut68, MF56, Mic67, Fey65e, Fey70c, Fey12, Fie06, Mar06]. **Physicist** [Gle88, Muk11, Ove08, FL14, KYT<sup>+</sup>92]. **Physicists** [Pic17d, Bre97, Cro01]. **Physics** [And88, Anox, BH83a, BH83b, Fey62c, Fey64e, Fey64d, FLS66, FLV69, Fey86b, Fey05b, Haf65, Her13, Kai02, Kai05b, Kra08, Lar19, Lin66, MKR87, Pin89, Rat06, Ryc17, SS98, Sax94, SGT<sup>+</sup>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, Jis13, Jis14, KLR13, Mlo03a, Str11, Wea16, WH07, Zic65, Dai67, Dys65, Fey70a, Lep07, Cao06, Fre06, Tre64, Wüt07, Edw85, FGL<sup>+</sup>06]. **Physics/Markwart** [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, 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** [Fey49b]. **Postscript** [Sch94b]. **Postwar** [Cao06, Fre06, Kai05b, Kra08, Lep07, Wüt07]. **Potentiality** [CHS97]. **power** [Bet91b]. **Pp** [Kra08, Tay97, Bro96c, Dys98, Dys05, Dys11a, Oni15, Roe12, Wüt07]. **pp** [Lan11]. **Practical** [Fey33, Gro07]. **practice** [FGL<sup>+</sup>12]. **premi** [Dai67]. **Present** [Acz10, Fey65d, Fey69c, Fey54b, Fey61d]. **presentation** [Nob72]. **Press** [Ano03a, Ano03b, 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]. **Probability** [Fey65f, Fey51a, Fey87b]. **Probably** [TSxx, Bre97]. **Problem** [Kai05a, Wüt18, Fey63c, FGL<sup>+</sup>06, Mat67, Mat76, Mat92]. **problem-solving** [FGL<sup>+</sup>06]. **Problems** [FVH57, Fey71c, 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, 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, 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, Hal17, Hel37, II08, Kra11, 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, Fey87c, Fey88a, Fey98b, FV00, Fey10b, Fis10, Fis12, Fri11, Fri14, Haw11, KLR13, MD02, MB11a, Nog17a, Nog17b, Sca91, Str11, 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, WF45, Dys49, Dys58, Dys03]. **Radiative** [BF52, FW41]. **Radically** [Her13]. **Radioactive** [Oni15]. **rainbow** [Mlo03a]. **Ralph** [Par03, Dys91, Fey00b]. **Ramanujan** [AEMS10]. **rapports** [Hei62]. **Rays** [VF39]. **Reaction** [FW41]. **Reader** [Spe91]. **readers** [Mil12]. **Reading** [Ano99, DeV00]. **readings** [WH07]. **real** [FR98]. **Reality** [Hal17]. **Reason** [Fey89b, Fai89]. **Reasonable** [Bro06, Dys05, Fey05a, Sch06]. **Receive** [Ano54b]. **Receives** [Ano35]. **Recruit** [Wil75]. **Redniss** [Oni15]. **REDUCE** [Cal72]. **reduction** [Stu10, Smi15]. **Reduze** [Stu10]. **reef** [Ano96]. **reflections** [FGL<sup>+</sup>12]. **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, Wüt13b]. **reprint** [Fey62a, FHH<sup>+</sup>62].

**reproduction** [FH69]. **research** [Bus10]. **researcher** [Ben11]. **Reshaping** [Sax94]. **Resonance** [MF56]. **Response** [Sta98, BF46]. **returns** [Goo01].  
**Revealed** [Usd09]. **Review** [And88, Ano99, Ano03a, Ano03b, Bro96b, Bro96c, Bro06, Cao06, Cus96, DeV00, Dre89, Dys91, Dys92, Dys98, Fre06, Gro14, Haf65, Hug86, 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** [Hal17]. **Rhymes** [Mer16]. **Richard** [Ano03b, Bro06, Cus96, Dys91, Dys92, Dys98, Dys05, Dys11a, For07, Hor00, Jac10, Lan11, Mic67, RS12, Sch06, SGT<sup>+</sup>95, Spe91, Tay97, Tür10, And88, 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, Fey05a, For07, Gle88, Gle92, Goo89, GG00, GG97, Haf65, Hal17, Hen10, Hey96, Hey99b, Hil89, Hug86, Hut68, KYT<sup>+</sup>92, Kra11, 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]. **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, Dys92, Fey56b, Fey69e, Fey74b, Gle92, SGT<sup>+</sup>95, SF56, Sta98, Tay97, Bet91b, Cec11, Fey55d, Fey56a, Fey57c, Fey86e, Fey07b, Fey11a, FR98, GG97, H<sup>+</sup>58, Kra11, Meh94, SNA<sup>+</sup>06, Dys98, RS12, Dys11a, Kai01, Lan11]. **Sciences** [Fey64d, Hal09, RS11]. **Scientific** [Fey90, Mer16, Fey66e, HG07, Haw11]. **Scientist** [Fey98d, Hor00, Dys98]. **Scientists** [Ber01, Bri95a, Hal09, Rog10, Str11]. **Scope** [Ben11, Bus10, Mil12]. **Scorer** [Ano35]. **Search** [Oni15, Wüt13a, Eds67, KYT<sup>+</sup>92, Mlo03a]. **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, 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, 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, Sch86, Str08]. **space-time** [Fie06, Sch86]. **Special** [Ano89, Lub89, Pic17a, DT16, Fey64f]. **Spectrum** [FC56]. **speeches** [Nob72]. **Split** [Kai05c]. **sploshnykh** [FLS77b]. **sponsorship** [DMR57]. **Spreading** [KIH04]. **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]. **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]. **survey** [H<sup>+</sup>58]. **Sutton** [SGT<sup>+</sup>95]. **Sycamore** [Dys11a, Roe12]. **Symbolic** [CH70, BKSS10, BKSS12]. **Symmetries** [Zic65]. **Symmetry** [Fey66d, Fey97, Fey65a, Fey11d]. **system** [FV63, FV00]. **Systematization** [Wüt11d]. **Systems** [FRRZ04, Mor04, RS11].

**T** [Bus10]. **T4d** [EFK<sup>+</sup>62]. **Take** [FH74]. **Tale** [Oni15]. **talk** [Bri95a]. **Talking** [Fey80a]. **Tampers** [Fey46]. **Tannu** [FL87a]. **Tapes** [NC89]. **TCP** [KYT<sup>+</sup>92]. **TCP/IP** [KYT<sup>+</sup>92]. **Teacher** [Goo89, Muk11, FLS95, Fey11c]. **Teaching** [Fey86b, Fey63c]. **Team** [Ano39, Ral06]. **technical** [Ano89]. **Technique** [Hur52]. **techniques** [Jis13, Jis14]. **Teilchen** [Fis10, Fis12]. **tell**

[Fey72b]. **Téorica** [Fey53f, Fey05b]. **Teplota** [FLS76b]. **Term** [Ove08]. **Terms** [WF49]. **textbooks** [Fey65b, Fey65c]. **theater** [FR98]. **Their** [HHW99, Maz09]. **theology** [Sta98]. **Theorem** [Bee80, Fey46, GN87, Pup02, RLER07, Mer17, Whi16]. **Theorems** [Pop98, Sla72]. **Theoretical** [Gle88, Wüt11d, Wüt18, DT16, Fey54b, Fey53f, Fey05b]. **théorie** [Vis51]. **Theories** [Cao06, Dys01, FHRK51, Fre06, Kai05b, Kra08, Lep07, Wüt07, Dys49, Dys58, Dys03, Fey77b, Fey88a]. **Theory** [AHK76, AHKM08, Ber47, Bro05, CF57, DB88b, Eps55, FMT47, FMT49b, Fey49b, Fey50, Fey53b, Fey53c, Fey54a, FGM58, Fey59c, Fey64f, FG92, FBD05, 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, Vis51, Zeh11]. **There** [Fey61c, Fey92, Fey11e, JR06, Sta97]. **Thesis** [Bro05, FBD05]. **things** [Cec11, FR99, Fey00c, FRL01, Str08]. **Think** [Dre89, FF05, Spe91, FL88]. **Third** [KLR13]. **Thomas** [FMT47, FMT49a, FMT49b]. **Those** [NC89]. **Thought** [Sta87]. **Thoughts** [Dys98, Fey98d]. **Three** [Fey88b]. **threshold** [Pup02]. **thrive** [Ano96]. **Tie** [Ano39]. **Time** [Eps55, FF05, Hal17, Spe91, TSxx, Wil75, Fey48c, Fey49a, Fey66a, Fey66b, Fey66c, Fey97, Fey98b, Fey11d, Fie06, Mlo03b, Rog10, Sch86, Sch94c]. **Time-Independent** [Eps55]. **times** [Bre97, Cro01, KYT<sup>+</sup>92]. **Timothy** [Dys05]. **Tiny** [Fey87c, Ano02]. **Tipler** [Spe91]. **tips** [FGL<sup>+</sup>06, FGL<sup>+</sup>12, KYT<sup>+</sup>92]. **today** [Fey57c]. **Tomonaga** [Bro96c, Dai67, Dys49, Dys58, Dys65, Dys01, Dys03, Sch94b, Sch94a, SGT<sup>+</sup>95, Bro96b, Way95, Sax94]. **Tomorrow** [SAY<sup>+</sup>82]. **too** [Mor95]. **tool** [HL08]. **Tools** [KIH04, Fri14]. **tour** [HG07]. **trace** [Wes93]. **Track** [Bro06, Dys05, Fey05a, Sch06, Feyxx]. **tracks** [Sha17]. **Traditions** [KLR13]. **traektoriam** [FH68]. **trains** [Feyxx, Sha17]. **transformations** [KLR13]. **Transition** [Fey53c, Fey53a]. **transverse** [FFF77, Fey77a, FFF78, FF77]. **treasury** [FF91]. **tree** [Fey71a]. **trends** [JP08]. **Trinity** [Oni15]. **Trivial** [FC82]. **true** [Mor95]. **Truth** [FD93, KYT<sup>+</sup>92, Oni15]. **Tufte** [She05]. **tuning** [Bry09]. **Turn** [Bro00a, Fey47]. **Tuva** [Dys91, FL87a, Lei00, Par03]. **Two** [CHS97, Eds67, Fey54a, Fey88b, FT92, RS11]. **Two-Fluid** [Fey54a]. **two-loop** [FT92].

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