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## Title word cross-reference

3 [FV14]. + [BP11]. - [BP11].  $E = mc^2$  [Bou13].  $H$  [Bad11, vN10].  $\Lambda$  [Nov18].  $p$  [DJ13].  $q$  [DJ13].  $\Upsilon$  [SM11].  $W$  [Tan16].

**-theorem** [Bad11, vN10].

**1911** [Str11]. **1920s** [PP16]. **1953** [Cro11]. **1957** [Fre10]. **1966** [Ell14]. **19th** [Sch14b].

**20th** [DFP18].

**51** [CB15].

**60** [Kik18]. **60s** [Sch10].

**70s** [Sch10]. **76** [FBB14].

**abandoned** [OMNM14]. **abstract** [Bor13]. **abundances** [Tri10].  
**accelerators** [Sch12]. **achieve** [Kik18]. **achievements** [Haa10b]. **across**  
 [Nar18]. **action** [Ish17, PB17]. **Adams** [Ell14]. **after** [Des18, ZLK11]. **age**  
 [Tip13]. **air** [Dah15, KW12]. **Alder** [BC18]. **algebra** [Pie11]. **algebras**  
 [Fre10, Haa10b]. **almost** [FV14]. **American** [RBM14]. **Analysis**  
 [PB17, BH17, OM14]. **angle** [DLL16]. **Anglo** [RBM14]. **Annotation**  
 [FBB14]. **anode** [Dit16]. **anti** [Dit15b]. **anti-Dirac** [Dit15b]. **antiproton**  
 [Rub12]. **antiquity** [Lev16]. **application** [CM12]. **approach** [BR13].  
**approximation** [Ste16]. **Arrhenius** [Kra13a]. **Aspects** [Gal13].  
**assumption** [Fic13]. **assumptions** [Kre15]. **astrometry** [Per12].  
**Astronomer** [RBM14]. **astronomy** [LW12, Spi12b]. **astrophysics**  
 [Bon17, KKS12, MC18]. **asymptotic** [Haa10a]. **atom** [Eck14]. **Atomic**  
 [Cro11, Bai13, Kra11]. **attempt** [Sch19]. **Attempts** [JN14]. **axiom** [Haa10a].

**b** [CB15]. **back** [Haa10b]. **Bagnères** [Cro11]. **Balmer** [Som14b]. **Bang**  
 [Pee14]. **based** [Dua12]. **be** [Sch19]. **beam** [CM12]. **beams** [Per16]. **became**  
 [Sch19]. **before** [Bon17, Tri10]. **beginning** [MC18]. **beginnings** [DB14].  
**behavior** [GLTZ10]. **Berni** [BC18]. **Bethe** [FBB14]. **between**  
 [DD13, Rad13, Sch19]. **beyond** [LJ15]. **Big** [Pee14]. **Bigorre** [Cro11].  
**binary** [Ken17]. **Birkeland** [Kra13a]. **Birth** [Cro11, Piz16, Eck10, Fre10].  
**bodies** [SKL14]. **Bohr** [Eck14, Kra11, PP16]. **Boltzmann** [Bad11]. **Bonn**  
 [Paul13]. **boson** [Bor15]. **Bothe** [Fic13]. **bounds** [MP13]. **Braking**  
 [Bet14, FBB14]. **branches** [Kre11]. **Bremsformel** [Bet32]. **bridge** [Sch19].  
**bridge-building** [Sch19]. **brief** [Des18, JN14]. **Bruno** [BP11]. **Bryce**  
 [BH17]. **bubble** [Per16]. **building** [Sch19].

**ca** [Kra16]. **campaign** [Sch14b]. **canonical** [RB15]. **Cartan** [Sch19]. **case**  
 [CD11]. **Cauchy** [FV14]. **caused** [HS16]. **centennial** [OONM17]. **Century**  
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 [Hüb12, Per16, Pla12, Ric12, Sch12]. **chamber** [Per16]. **Chandra** [RBM14].  
**chaos** [Esc18]. **charged** [SKL14]. **Charm** [MB17a, Dor12]. **chemical** [Tri10].  
**Clarifying** [DD13]. **Classical** [SKL14, Kre15, LJ15]. **cofounder** [Dit15a].  
**collider** [BP11, Tan18]. **colliders** [Ric12, Rub12]. **commitment** [Haa10c].  
**compact** [Bon17]. **composite** [Haa10a]. **Computational** [Mar18, LH19].  
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**constrained** [SS17]. **Constructive** [Shl12]. **contemporary** [FGV17].  
**continued** [Pla12]. **Contour** [DPP<sup>+</sup>12]. **contributed** [Tan18].  
**contributions** [Sch10]. **controversy** [Ken17]. **conundrum** [Hic12, Sch13].

**conversion** [Nus14]. **cooling** [CM12]. **Copenhagen** [BH17]. **cornerstone** [Kre15]. **correction** [IN16]. **correspondences** [PP16]. **Cosmic** [Cro11, Spi12a, CD11, KW12, Mül12, OM14, WW12]. **cosmical** [Kra13a]. **cosmogonies** [Kra13a]. **cosmological** [OONM18]. **cosmology** [Nar18, OONM15]. **cosmos** [OMNM14, OONM15]. **Cosserats** [Sch19]. **CP** [Cro12]. **credible** [Ste16]. **criteria** [Shl12]. **critical** [Ble12, SM11]. **cultural** [Ben10]. **Curie** [Rad13]. **current** [Pie11]. **curvature** [Sch19].

**D** [FV14]. **dark** [OONM18]. **dawn** [Fic13]. **day** [Lev16]. **days** [Pic12]. **decades** [Nar18]. **decelerated** [HS16]. **Definitions** [MPP<sup>+</sup>12]. **deflection** [Sch14a]. **Department** [Dor13]. **detectors** [Piz16]. **determination** [JN14]. **determine** [Sch14b]. **detonation** [Kre11]. **development** [Ina15, Pla12, Tan18, ZLK11]. **developments** [Piz16]. **DeWitt** [BH17]. **Dicke** [Pee17]. **different** [CM12]. **Dirac** [Dit15b]. **Direct** [Mül12]. **discipline** [Goe17]. **discovered** [Smi13]. **Discovery** [Pee14, AK11, CD11, CB15, Cro12, Eck12, Pen13, Per14, Söd10, Ste16, SM11]. **Discussion** [Haa10a, Rad13]. **dispersion** [LL14]. **do** [Kra11]. **dozen** [Iof13]. **Dynamical** [GS12]. **dynamics** [FGV17, SS17]. **Dyson** [Ble12].

**E.** [Rad13, Sch19]. **Early** [Bai13, LJ15, Mar18, Per16, WW12, Bad11, Bor15, Haa10b, Kra13b, PP16, Per13, Pie11]. **Editorial** [Bei10, BG14, BGLR17, DFP18]. **effect** [Eck12, Smi13]. **Ehrenfest** [PP16]. **Einstein** [BGLR17, Nus14, OM14, OMNM14, OONM15, OONM17, Sch19, Sch13]. **Elections** [Bet32]. **electromagnetic** [SKL14]. **Electron** [Ric12, Pel12]. **Electrons** [FBB14, Bet14, Kra11]. **Elektronen** [Bet32]. **elements** [AM12, Kra13b, Tri10]. **emergence** [Kre11]. **energy** [KW12, Kra16, LW12, Mas14, OONM18, Spi12b]. **engineering** [Kre11]. **enhancement** [CM13]. **ensemble** [Ina15]. **entanglement** [Dua12]. **entropies** [DD13]. **episode** [Pen13]. **equation** [FV14]. **equations** [Dar10]. **Equilibrium** [Gal16, LJ15]. **era** [MC18]. **ergodic** [vN10]. **Ergodicity** [Gal16]. **Erratum** [Zag13]. **erroneous** [Ste16]. **Essay** [Ell14]. **estimation** [Bis15]. **ether** [Dar10]. **Euler** [Bis15, FV14]. **European** [Reb18]. **everything** [Sin12]. **evolution** [Nar18]. **exemplifies** [Mou13]. **existence** [MPP<sup>+</sup>12]. **Exoplanets** [MC18]. **expanding** [Nus14]. **experience** [CB15]. **experiment** [KKS12, Per13, SBSL<sup>+</sup>16]. **experimental** [AM12, Pau13, Pee17]. **experiments** [Dor13, Dua12, Per16, Piz16, Sch12, Tan18]. **exploration** [LJ15]. **Exploratory** [DeW17]. **extended** [Eck14, LJ15, SKL14]. **Extensive** [KW12].

**facets** [DM11, Mou13]. **fast** [HS16]. **father** [BP11]. **Fermi** [Zag11, Zag13]. **few** [Pic12]. **Feynman** [Zeh11]. **field** [DeW17, Dit15a, DM11, Fic13, Haa10a, Sch10, Sch11]. **fields**

[MPP<sup>+</sup>12, Ros17]. **fifth** [Fis15]. **fight** [Kik18]. **fin** [Kra13a]. **fin-de-siècle** [Kra13a]. **fine** [JN14, Som14a]. **fine-structure** [JN14]. **first** [Des18, Iof13, JN14, Sch14a, Ste16, Str11]. **fission** [Kra14, Ste16]. **flow** [FV14]. **fluid** [Cra12, FGV17]. **fluids** [Bis15, VR17]. **force** [Fis15, SKL14]. **forgotten** [FV14, OM14]. **Formula** [FBB14, Bet14, Ken17]. **formulation** [FV14]. **formulations** [SKL14]. **Förster** [Mas14]. **foundational** [Sch13]. **foundations** [DJ13]. **fountain** [Bis15]. **four** [Mou13]. **Fractals** [IN16]. **France** [LH19]. **free** [Kra11, Pel12]. **free-electron** [Pel12]. **French** [LPA18]. **frequency** [Lev16]. **FRET** [Mas14]. **friction** [Bis15]. **Fritz** [Bou13]. **full** [Kar14]. **fusion** [Esc18, Kik18].

**G** [RBM14]. **galactic** [Mül12]. **gamma** [LW12, Spi12a]. **gamma-ray** [LW12]. **General** [Goe17, SS17, VR17]. **genesis** [Blu14, RB15]. **geography** [Des18]. **geometry** [Ben10, Haw14]. **Geon** [Ric18]. **Gerlach** [SBSL<sup>+</sup>16]. **German** [Bet32]. **Germany** [Goe17]. **Geschwindigkeit** [Bet32]. **GeV** [SM11]. **Gibbs** [MPP<sup>+</sup>12]. **gluon** [AK11, Söd10, SM11]. **Gravitation** [BGLR17, Goe17]. **gravitational** [DeW17, Piz16]. **Gravity** [PR18, BH17, Pee17]. **group** [Ble12]. **growth** [Goe17].

**Hacking** [Sch15]. **hadron** [Tan18]. **Hahn** [Ste16]. **half** [Haa10c]. **Hamiltonian** [Esc18, SS17]. **Hankel** [FGV17, VR17]. **Hans** [FBB14]. **happened** [Pee14]. **hard** [Tan18]. **hard-scattering** [Tan18]. **Hasenöhr** [Bou13]. **Hawking** [Ell14]. **Heidelberg** [Wei15]. **heights** [Bis15]. **Hermann** [FGV17, VR17]. **heuristic** [Fic13]. **hierarchical** [Ble12, Ble12]. **Higgs** [Bor15, SZ12]. **high** [KW12, LW12, Spi12b]. **high-energy** [KW12, Spi12b]. **historical** [AK11, Dor12, Gal16, JN14, KW12, LPA18]. **History** [CM12, Eck12, RD11, Bad11, Des18, Fis15, IN16, Iof13, Kik18, LJ15, Lev16, MAE<sup>+</sup>19, Pel12, Per14, Per12, Pie11, Wag18, WW12, Bill13]. **honor** [DS10]. **hot** [LPA18, Pee14]. **Hughes** [Eck12]. **Hugoniot** [Kre15]. **hundred** [OONM18]. **hydrodynamic** [Eck10]. **Hydrogen** [Som14a]. **Hydrogen-like** [Som14a]. **hypothesis** [Kra16, Tri10].

**ideal** [Kre15]. **impact** [AK11]. **implanted** [Kar14]. **important** [Kre15]. **improved** [Wag18]. **incompressible** [FV14]. **Inconsistency** [Zag11, Zag13]. **Inertia** [Lan14, Pfi14]. **infinitely** [GS12]. **initial** [Piz16]. **insomnia** [Bad11]. **institutional** [Ben10]. **integration** [Sch12]. **interactions** [Dor12, DLL16, LPA18, Per16]. **international** [Sch12, Sch14b]. **internationalism** [CD11]. **interpretation** [RD11, Zeh11]. **Intersecting** [Hüb12]. **interview** [SD18]. **introduction** [BGLR17, DFP18]. **Ireland** [Ben10]. **irradiation** [HS16]. **irreversible** [LJ15, MW12]. **Ishiwara** [PB17]. **isotopes** [HS16]. **ISR** [Hüb12]. **issue** [BGLR17, DFP18]. **ITEP** [Iof13].

**Jack** [Tse12]. **James** [DS10, Dar10, Spe10]. **Japanese** [Kik18]. **JET** [Reb18, Bis15]. **jets** [AK11, AK11]. **Joint** [Reb18]. **Jordan**

[Dit15a, DJ13, Sch11, Sch13]. **Jorge** [Sch10]. **journey** [ZLK11]. **JT** [Kik18]. **JT-60** [Kik18]. **jump** [Kre15]. **Jun** [PB17].

**Kamiokande** [KKS12]. **Kelvin** [Cra12, Tip13]. **known** [Sch19]. **Korcak** [IN16]. **Korcak-law** [IN16].

**Laboratories** [Eck12]. **Laboratory** [Iof13]. **Lagrange** [Gal13]. **Lagrangian** [FV14, FGV17]. **Lange** [Pfi14]. **large** [Kik18]. **laser** [ZLK11]. **lasers** [Pel12]. **late** [Bor13]. **lattice** [MPP<sup>+</sup>12]. **law** [IN16, Lan14, Pfi14]. **legacy** [Gal13, Sch11]. **Léon** [SS17]. **LEP** [Mye12, Pic12, SZ12, Tse12]. **LHC** [MB17b, SZ12]. **life** [LB17]. **Light** [RBM14]. **like** [Som14a]. **Lille** [Fre10]. **limit** [Kra13b]. **lines** [Som14a]. **link** [DD13]. **liquid** [Tan18]. **Local** [Haa10b, Fre10, Haa10a, LJ15, Sch13]. **Long** [GLTZ10, ZLK11]. **Long-time** [GLTZ10]. **longitude** [Sch14a]. **look** [FGV17, Haa10b]. **Lord** [Cra12]. **lower** [MP13]. **Ludwig** [Pfi14].

**MacCullagh** [Ben10, DS10, Dar10, Spe10]. **macroscopic** [GLTZ10]. **Made** [Com29]. **magnetocaloric** [Smi13]. **magnetrons** [Dit16]. **many** [CM12, GS12]. **mass** [Bor15]. **mathematical** [Haa10c, Ble12, DPP<sup>+</sup>12, GS12, MPP<sup>+</sup>12, Shl12, Sin12]. **mathematics** [LL14]. **matter** [DB14]. **Maxwell** [Dar10]. **meaning** [Ish17, PB17]. **Measurement** [DLL16, BR13, Fra13, Sch14a]. **measurements** [Dua12, RD11]. **mechanical** [Bai13]. **Mechanics** [Mar18, BR13, Cra12, LB17, LH19, vN10, Gal13]. **Mechanistic** [Bad11]. **meeting** [BH17]. **Memories** [Tse12, Pic12]. **metals** [Kar14]. **meteoric** [Kra16]. **microscopy** [CM13]. **Millikan** [Fra13]. **Mind** [DJ13]. **missed** [Haa10b, Per13]. **mission** [Kik18]. **model** [Ble12, Eck14, OM14, OMNM14, OONM15, OONM17]. **models** [Bai13, Ble12]. **modern** [Kre15, Nar18]. **molecular** [BC18]. **Moscow** [Ble12, DPP<sup>+</sup>12, GS12, MPP<sup>+</sup>12, Shl12, Sin12]. **motion** [VR17]. **muon** [Kar14].

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overview [JN14].

**P.** [Rad13]. **paper** [Dit15b, FBB14]. **paradigm** [AM12]. **parallax** [Sch14b]. **particle** [Bil13, BP11, Bor15, LPA18, Pau13, WW12]. **particles** [Dor12, GS12, Haa10a]. **Pasadena** [Tri10]. **Pascual** [Dit15a, Sch11]. **past** [MW12]. **Paths** [Mas14]. **Paul** [RB15]. **Pauli** [Dit15b]. **pedestrian** [BR13]. **Peering** [Fri12]. **Pegasi** [CB15]. **pendulums** [Dah15]. **pentaquark** [Hic12]. **people** [Haa10c]. **perfect** [Tan18]. **periodic** [Kra13b]. **Perry** [Tip13]. **personal** [DB14, Fis15, MB17b, Nar18, Pau13, Wei15]. **perspective** [Gal16, OONM15]. **phenomena** [Ble12]. **photon** [Kra14]. **physicist** [BP11, Ric18]. **Physics** [Ble12, Cro11, DPP<sup>+</sup>12, Dor12, GS12, Iof13, MB17a, MPP<sup>+</sup>12, Shl12, Sin12, Ben10, Bor15, DB14, DFP18, Haa10c, Kra13a, Kra14, Kre11, Kre15, Mou13, Pau13, Pee17, SD18, Sch13, WW12, Wei15, Dor13]. **Physik** [FBB14]. **pioneering** [BC18, FGV17]. **Planck** [Fra13]. **plasma** [HM18, Kra14, SD18, DFP18]. **plasmas** [LPA18]. **players** [DFP18]. **plus** [CB15]. **PLUTO** [SM11]. **point** [LPA18]. **polarisability** [MP13]. **polarization** [Dua12]. **positive** [Kar14]. **possible** [Blu14]. **prehistory** [PR18]. **present** [Lev16, MW12, Sch10]. **principles** [JN14]. **Prize** [Ell14]. **probability** [Zag11, Zag13]. **problem** [BR13, Eck10]. **problems** [Haa10c]. **processes** [MW12]. **produced** [Dor12]. **production** [HS16]. **projects** [CM12]. **Proof** [vN10]. **properties** [Haa10a]. **Proton** [Rub12, Fri12, Pla12]. **Proton-antiproton** [Rub12]. **Prout** [Tri10]. **PS** [Tse12]. **pulsar** [Ken17]. **pulsars** [Pen13].

**QCD** [AK11, Tan18]. **quadrupole** [Ken17]. **quantization** [DeW17, RB15, Ros17]. **Quantum** [PR18, Bai13, BH17, BR13, Dit15a, DM11, Dua12, DJ13, Fic13, GLTZ10, Ish17, PB17, Sch10, Sch11, Sch13, Sch15, Zag11, Zag13, Zeh11, vN10]. **quark** [AK11, Per13]. **quarks** [Per16].

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**route** [Dar10]. **Routes** [Bor13]. **Russia** [SD18]. **Rutherford** [Rad13].

**'s** [DJ13, BH17]. **Sagdeev** [SD18]. **Sapienza** [Dor13]. **scattering** [Tan18, Bet32]. **science** [CD11, Kre11]. **Searching** [SZ12, Piz16]. **seen** [Nar18]. **self** [HM18, SKL14]. **self-force** [SKL14]. **self-organization** [HM18]. **seminar** [Ble12, DPP<sup>+</sup>12, GS12, MPP<sup>+</sup>12, Shl12, Sin12]. **series** [Som14b]. **session** [DeW17]. **SETI** [Pen13]. **Shock** [Kre11, Kre15]. **showers** [KW12]. **siècle** [Kra13a]. **simulation** [BC18]. **Singularities** [Haw14]. **Sitter** [OONM15]. **six** [Nar18]. **slumber** [Bad11]. **solar** [Kra16, RD11, RD12, Sch14b]. **Solvay** [Str11]. **Some** [Haa10c, Haa10b]. **Sommerfeld** [Eck10, Eck14]. **source** [Kra16]. **space** [Ben10]. **spacetime** [Haw14, Ric18]. **special** [BGLR17, DFP18]. **speculations** [Kra13b, Kra16]. **Speed** [FBB14, Bet14]. **spin** [Blu14]. **split** [Dit16]. **split-anode** [Dit16]. **stability** [Eck10]. **started** [Sin12]. **State** [Ble12, DPP<sup>+</sup>12, GS12, MPP<sup>+</sup>12, Shl12, Sin12, OMNM14]. **states** [Zag11, Zag13]. **static** [Nus14, OONM17]. **Statistical** [Ble12, DPP<sup>+</sup>12, GS12, Mar18, MPP<sup>+</sup>12, Shl12, Sin12, Bad11, LB17, LH19]. **statistics** [Blu14]. **steady** [OMNM14]. **steady-state** [OMNM14]. **Steinberger** [Tse12]. **Stellar** [Bon17]. **Stephen** [Ell14]. **steps** [Per16]. **Stern** [SBSL<sup>+</sup>16]. **stimulated** [Eck12]. **stimulus** [Kre11]. **stochastic** [CM12]. **Storage** [Hüb12]. **story** [Bor15, Kar14, SD18]. **Strassmann** [Ste16]. **Strong** [HM18]. **structure** [Bon17, JN14, Som14a]. **stunt** [OONM18]. **Sub** [Cro11, Goe17]. **sub-discipline** [Goe17]. **substructure** [Per13]. **sun** [Tip13]. **superfluous** [OONM18]. **Supergravity** [Des18]. **Superheavy** [Kra13b, AM12]. **surprises** [Kar14]. **survey** [Spi12a]. **Swieca** [Sch10]. **symmetry** [Mou13]. **synchrotron** [Pla12]. **systems** [GLTZ10, GS12].

**table** [Kra13b]. **Tales** [PR18]. **technics** [DPP<sup>+</sup>12]. **techniques** [CM13]. **telecommunication** [MAE<sup>+</sup>19]. **temporal** [RD12]. **their** [Gal13, Per16, Sch10]. **theorem** [Bad11, Blu14, vN10]. **Theoretical** [Iof13, MB17a, DB14]. **Theory** [BGLR17, Bis15, Dit15a, Dit16, DM11, DJ13, Eck10, Fic13, Haa10a, Ina15, Kra11, LJ15, Mas14, OMNM14, SS17, Sch10, Sch11, Som14b, VR17, Zeh11]. **thermodynamic** [DD13]. **Thermodynamics** [MW12, Bor13, LJ15]. **thermonuclear** [Esc18]. **Things** [Com29]. **thinking** [Mou13]. **time** [GLTZ10, Lev16]. **timeline** [MB17b]. **times** [BC18]. **tokamak** [Kik18]. **told** [DFP18]. **Tomonaga** [Dit16]. **torsion** [Sch19]. **Torus** [Reb18]. **Touschek** [BP11]. **transfer** [Mas14]. **transformations** [PP16]. **translation** [OM14]. **translational** [Sch19]. **transport** [LJ15]. **traveling** [MAE<sup>+</sup>19]. **traveling-wave** [MAE<sup>+</sup>19]. **troublesome** [Eck10]. **tube** [MAE<sup>+</sup>19]. **turbulence** [Eck10, HM18].

**ultra** [KW12]. **underlying** [LL14]. **unique** [Bil13]. **uniqueness** [MPP<sup>+</sup>12]. **universal** [Ish17, PB17]. **universe** [Nus14, OM14, OONM17]. **University**

[Ble12, DPP<sup>+</sup>12, Dor13, GS12, MPP<sup>+</sup>12, Shl12, Sin12]. **upper** [Kra13b]. **uranium** [HS16]. **using** [Per16].

**variability** [RD12]. **Velocity** [Bet32]. **versus** [DJ13]. **vertical** [Sch14a]. **Very** [LW12]. **Very-high** [LW12]. **view** [LPA18]. **violation** [Cro12]. **vs** [Bad11, Kre15].

**Waiting** [Tan16]. **walk** [Nar18]. **Wave** [LPA18, Kre11, Kre15, MAE<sup>+</sup>19, Ros17]. **waves** [Piz16]. **Weber** [Tri17]. **weeks** [Des18]. **Weinberg** [DLL16]. **Weiss** [RB15]. **Weisskopf** [Dit15b]. **Wheeler** [Ric18]. **Who** [Smi13]. **will** [Kra11]. **Wired** [Tri17]. **work** [FGV17]. **world** [AM12]. **wrongs** [RD12].

**X** [Pel12]. **X-ray** [Pel12].

**Years** [Pau13, Haa10b, Iof13, Mar18, OONM18, Pla12, Spi12a, Wei15]. **Youth** [CB15].

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