

Scientific References for Nobel Physics Prizes

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1901 - Wilhelm Conrad Roentgen

"in recognition of the extraordinary services he has rendered by the discovery of the remarkable rays subsequently named after him."

Roentgen X-ray

Roentgen, W.C. *Ann. Physik* **1898**, 64, 1

Stanton, A. *Science* **1896**, 3, 227; 726 (translation)

1902 - Hendrik Antoon Lorentz and Pieter Zeeman

"in recognition of the extraordinary service they rendered by their researches into the influence of magnetism upon radiation phenomena."

Zeeman effect

Zeeman, P., *Verhandlungen der Physikalischen Gesellschaft zu Berlin* **1896**, 7, 128

Zeeman, P., *Nature* **1897**, 55, 347 (translation by A. Stanton)

1903 - Antoine Henri Becquerel

"in recognition of the extraordinary service he has rendered by his discovery of spontaneous radioactivity."

Becquerel, A.H. *Compt. Rend.* **1896**, 122, 420; 501; 559; 689; 1086

Becquerel, A.H. *Compt. Rend.* **1896**, 123, 855

Becquerel, A.H. *Compt. Rend.* **1897**, 124, 444; 800

Becquerel, A.H. *Compt. Rend.* **1899**, 129, 996; 1205

Becquerel, A.H. *Compt. Rend.* **1900**, 130, 327; 809; 1583

Becquerel, A.H. *Compt. Rend.* **1900**, 131, 137

Becquerel, A.H. *Compt. Rend.* **1901**, 133, 977

1903 - Pierre Curie and Marie Curie, nee Sklodowska

"in recognition of the extraordinary services they have rendered by their joint researches on the radiation phenomena discovered by Professor Henri Becquerel."

Curie unit of radiation

Curie, P; Desains, P., *Compt. Rend.* **1880**, 90, 1506

Curie, M. *Compt. Rend.* **1898**, 126, 1101

Curie, M.S., Curie, P., *Compt. Rend.* **1898**, 127, 175

Curie, M.S.; Curie, P.; Bémont, G., *Compt. Rend.* **1898**, 127, 1215

1904 - Lord Rayleigh (John William Strutt)

"for his investigations of the densities of the most important gases and for his discovery of argon in connection with these studies."

Discovery of argon

Rayleigh, Lord; Ramsay, W. *Proc. Roy. Soc. London* **1894 - 1895**, 57, 265

1905 - Philipp Eduard Anton Lenard

"for his work on cathode rays."

Lenard, P. *Ann. Physik* **1910**, 31, 641

Lenard, P. *Über Kathodenstrahlen*, W. de Gruyter & Co.: Berlin, 1921

Lenard, P.; Becker, A. *Handbuch der Experimentalphysik Band XIV. Kathodenstrahlen*, Akademische Verlagsgesellschaft mbH: Leipzig, 1929

1906 - Joseph John Thomson

"in recognition of the great merits of his theoretical and experimental investigations on the conduction of electricity by gases."

Discovery of electron

Thomson, J.J. *Phil. Mag.* **1897**, 44, 293

1907 - Albert Abraham Michelson

"for his optical precision instruments and the spectroscopic and metrological investigations carried out with their aid."

Michelson-Morley experiment

Michelson, A.A. *Am. J. Sci.* **1881**, 22, 20

Michelson, A.A.; Morley, E.W. *Am. J. Sci.* **1887**, 34, 333

Michelson, A.A.; Morley, E.W. *Phil. Mag.* **1887**, 24, 449

1908 - Gabriel Lippmann

"for his method of reproducing colours photographically based on the phenomenon of interference."

1909 - Guglielmo Marconi and Carl Ferdinand Braun

"in recognition of their contributions to the development of wireless telegraphy."

1910 - Johannes Diderik van der Waals

"for his work on the equation of state for gases and liquids."

van der Waals equation of state

van der Waals, J.D., *Ann. Physik Chem. Beiblatter* **1877**, 1, 10

van der Waals, J.D., *Proc. Akad. Wetenschappen* **1912**, 13, 107

van der Waals, J.D., *Chem. Weekblad* **1914**, 10, 628

van der Waals, J.D., *Verslag Akad. Wetenschappen* **1914**, 21, 800

1911 - Wilhelm Wien

"for his discoveries regarding the laws governing the radiation of heat."

Wien displacement law

Wien, W. *Ann. Physik* **1896**, 58, 662

1912 - Nils Gustaf Dalen

"for his invention of automatic regulators for use in conjunction with gas accumulators for illuminating lighthouses and buoys."

1913 - Heike Kamerlingh-Onnes

"for his investigations on the properties of matter at low temperatures which led, inter alia, to the production of liquid helium."

Absolute zero measurements

Onnes, H.K.; Crommelin, C.A. *Communic. Phys. Lab. Leiden* **1906**, 95a, 1

Onnes, H.K.; Braak, C.; Clay, J. *Proc. Acad. Amsterdam* **1909**, 10, 422; 429

Onnes, H.K.; Braak, C. K. *Acad. Wetenschappen Amsterdam* **1910**, 11, 333; 344

Onnes, H.K.; Holst, G. *Verlag. Akad. Wetenschappen* **1914**, 23, 175

Superconductivity at low temperatures

Onnes, H.K. *Electrician* **1911**, 67, 657

Onnes, H.K. *Electrician* **1913**, 71, 855

Onnes, H.K. *Verlag. Akad. Wetenschappen* **1913**, 20, 1284; 1388

Onnes, H.K. *Proc. K. Akad. Wetenschappen* **1914**, 16, 673; 987

Onnes, H.K. *J. Chem. Soc.* **1914**, 106, 163

Onnes, H.K. *Proc. K. Akad. Wetenschappen* **1914**, 22, 1027

Onnes, H.K. *Verlag. Akad. Wetenschappen* **1914**, 22, 1413

Onnes, H.K. *Verlag. Akad. Wetenschappen* **1914**, 23, 167

Onnes, H.K. *Compt. Rend.* **1914**, 159, 34

Onnes, H.K.; Beckman, B. *Verlag. Akad. Wetenschappen* **1914**, 21, 263; 478; 881; 888

Onnes, H.K.; Hof, K. *Verlag. Akad. Wetenschappen* **1914**, 23, 493

Onnes, H.K.; Holst, G. *Verlag. Akad. Wetenschappen* **1914**, 23, 506

1914 - Max von Laue

"for his discovery of the diffraction of X-rays by crystals."

Discovery of diffraction of X-rays by crystals

Friedrich, W.; Knipping, P.; Laue, M. *Sitzungsber. Bayer. Akad. Wiss. (Math. Phys. Klasse)* **1912**, 303

Friedrich, W.; Knipping, P.; Laue, M. *Ann. Physik* **1913**, 41, 971

1915 - William Henry Bragg and William Lawrence Bragg

"for their services in the analysis of crystal structure by means of X-rays."

Bragg equation, Bragg angle of diffraction, Bragg planes, Bragg reflection indices

Bragg, W.L., *Proc. Cambridge Phil. Soc.* **1912**, 17, 43

Bragg, W.H.; Bragg, W.L. *X-Rays and Crystal Structure*, London, 1915

1916 - No prize awarded due to WWI.

1917 - No prize awarded due to WWI.

1918 - Charles Glover Barkla (prize for 1917)

"for his discovery of the characteristic Roentgen radiation of the elements."

- Barkla, G. *Nature* **1908**, 76, 661
 Barkla, G. *Nature* **1908**, 77, 319
 Barkla, G. *Nature* **1908**, 78, 7
 Barkla, G.; Sadler, C.A. *Nature* **1908**, 77, 343
 Barkla, G.; Sadler, C.A. *Phil. Mag.* **1909**, 16, 550
 Barkla, G. *Phil. Mag.* **1911**, 20, 370
 Barkla, G. *Phil. Mag.* **1911**, 21, 648
 Barkla, G.; Collier, V. *Phil. Mag.* **1912**, 23, 986
 Barkla, G.; Martyn, G.H. *Nature* **1913**, 90, 435; 647
 Barkla, G.; Martyn, G.H. *Phil. Mag.* **1913**, 25, 296
 Barkla, G.; Philpot, A.J. *Phil. Mag.* **1913**, 25, 832
 Barkla, G. *Physik. Z.* **1914**, 15, 160
 Barkla, G.; Dunlop, J.G. *Phil. Mag.* **1916**, 31, 222
 Barkla, G. *Proc. Roy. Soc. London* **1916**, 92A, 501
 Barkla, G. *Nature* **1915**, 95, 7

1919 - Max Karl Ernst Ludwig Planck (prize for 1918)

"in recognition of the services he rendered to the advancement of physics by his discovery of energy quanta."

Blackbody radiation

Planck, M. *Ann. Physik* **1901**, 4, 553

Quantum concept

Planck, M. *Ann. Physik* **1900**, 1, 69

1919 - Johannes Stark (prize for 1919)

"for his discovery of the Doppler effect in canal rays and the splitting of spectral lines in electric fields."

Stark effect

- Stark, J. *Physik. Z.* **1905**, 6, 892
 Stark, J. *Ann. Physik* **1906**, 21, 401
 Stark, J. *Physik. Z.* **1907**, 8, 913
 Stark, J. *Ann. Physik* **1914**, 43, 965
 Stark, J. *Ann. Physik* **1915**, 48, 193

1920 - Charles Edouard Guillaume

"in recognition of the service he has rendered to precision instruments in physics by his discovery of anomalies in nickel steel alloys."

- Guillaume, C.E. *Compt. Rend.* **1911**, 152, 189; 1450
 Guillaume, C.E. *Compt. Rend.* **1911**, 153, 156
 Guillaume, C.E. *Compt. Rend.* **1912**, 154, 748

Guillaume, C.E. *Compt. Rend.* **1917**, 164, 904
 Guillaume, C.E. *Compt. Rend.* **1920**, 170, 1433; 1554
 Guillaume, C.E. *Compt. Rend.* **1920**, 171, 1039
 Guillaume, C.E. *Proc. Phys. Soc. London* **1920**, 32, 374
 Guillaume, C.E. *Arch. Sci. Phys. Nat.* **1927**, 9[5], 5
 Guillaume, C.E. *Rev. Metal* **1928**, 25, 35
 Guillaume, C.E. *Recherches Metrologiques sur les Aciers au Nickel*, Dunod: Paris, 1928

1921 - No prize awarded.

1922 - Albert Einstein (prize for 1921)

"for his service to theoretical physics, and especially for his discovery of the law of the photoelectric effect."

Photoelectric effect

Einstein, A. *Ann. Physik* **1905**, 17, 132

1922 - Niels Bohr (prize for 1922)

"for his services in the investigation of the structure of atoms and of the radiation emanating from them."

Bohr theory, model of atom

Bohr, N., *Phil. Mag.* **1913**, 26, 1; 476

Bohr, N., *Phil. Mag.* **1913**, 26, 857

Bohr's laws of line spectra of gases

Bohr, N. *Phil. Mag.* **1913**, 26, 1; 476; 857

Electron configuration of atoms (*Aufbau* principle)

Bohr, N. *Z. Physik* **1922**, 2, 1

1923 - Robert Andrews Millikan

"for his work on the elementary charge of electricity and on the photoelectric effect."

Millikan oil drop experiment

Millikan, R.A. *Phil. Mag.* **1910**, 19, 209

Millikan, R.A., *Phys. Rev.* **1913**, 2, 109

Millikan, R.A., *Phys. Rev.* **1913**, 2, 122

Fletcher, H. *Phys. Rev.* **1911**, 33, 81

Millikan, R.A. *The Electron* University of Chicago, 1917

Photoelectric effect

Millikan, R.A. *Phys. Rev.* **1916**, 7, 362

1924 - No prize awarded.

1925 - Karl Manne Georg Siegbahn (prize for 1924)

"for his discoveries and research in the field of X-ray spectroscopy."

Siegbahn, M. *Physik. Z.* **1914**, 15, 753
 Siegbahn, M.; Friman, E. *Physik. Z.* **1916**, 17, 176
 Siegbahn, M.; Friman, E. *Phil. Mag.* **1916**, 32, 494
 Siegbahn, M.; Stenstrom, W. *Compt. Rend.* **1917**, 165, 428
 Siegbahn, M. *Phil. Mag.* **1919**, 38, 601; 639; 647
 Siegbahn, M.; Jonsson, E. *Physik. Z.* **1919**, 20, 251
 Siegbahn, M.; Lindl, A.E.; Stensson, N. *Z.Physik.* **1921**, 4, 61
 Siegbahn, M. *Z.Physik.* **1922**, 9, 68
 Siegbahn, M. *Compt. Rend.* **1921**, 173, 1350
 Siegbahn, M.; Dolejssek, V. *Z.Physik.* **1922**, 10, 159
 Backlin, E.; Siegbahn, M.; Thoraeus, R. *Phil. Mag.* **1925**, 49, 513
 Siegbahn, M.; Thoraeus, R. *Arkiv. Mat. Astron. Fysik* **1924**, 18, 1
 Hjalmar, E.; Siegbahn, M. *Nature* **1925**, 115, 85
 Siegbahn, M. *J. de Physique et le Radium* **1925**, 6, 228
 Siegbahn, M.; Hjalmar, E. *Arkiv. Mat. Astron. Fysik* **1925**, 19A, 12pp.

1926 - James Franck and Gustav Hertz (prize for 1925)

"for their discovery of the laws governing the impact of an electron upon an atom."

Franck-Condon transition, Franck-Condon factor,
 Franck-Condon principle

Franck, J., *Trans. Faraday Soc.* **1925**, 21, 536

Hertz, G. *Ber. Physik. Ges.* **1917**, 19, 268
 Hertz, G. *J. Am. Chem. Soc., Abstracts* **1918**, 114(2), 105
 Franck, J.; Hertz, G. *Physik. Z.* **1919**, 20, 132
 Hertz, G. *Proc. Acad. Sci. Amsterdam* **1922**, 25, 90
 Franck, J.; Hertz, G. *Ber. Physik. Ges.* **1913**, 15, 373
 Franck, J.; Hertz, G. *Verb. Deut. Physik. Ges.* **1914**, 15, 929
 Hertz, G. *Physik. Z.* **1920**, 21, 630
 Hertz, G. *Physica (The Hague)* **1922**, 2, 15; 61
 Hertz, G.; de Visser, J.C.S. *Z. Physik* **1925**, 31, 470
 Hertz, G.; Abbink, J.H. *Naturwiss.* **1926**, 14, 648

1926 - Jean Baptiste Perrin

"for his work on the discontinuous structure of matter, and especially for this discovery of sedimentation equilibrium."

Discovery of sedimentation equilibrium

Perrin, J. *Compt. Rend.* **1908**, 146, 967
 Perrin, J. *Compt. Rend.* **1909**, 147, 475; 530
 Perrin, J. *Ann. Chim. Phys.* **1910**, 18, 5
 Perrin, J. *J. Physique* **1910**, 2, 5
 Perrin, J. *Ion* **1911**, 2, 257
 Perrin, J.; Bjerrum, N. *Compt. Rend.* **1911**, 152, 1569
 Perrin, J. *Compt. Rend.* **1911**, 152, 1165
 Perrin, J. *Compt. Rend.* **1911**, 152, 1380
 Perrin, J. *Chem. News* **1913**, 106, 189; 203; 215

1927 - Arthur Holly Compton

"for his discovery of the effect named after him."

Compton effect, Compton wavelength

Compton, A.H., *Phys. Rev.* **1923**, 21, 409

Compton, A.H., *Phys. Rev.* **1923**, 21, 483

1927 - Charles Thomson Rees Wilson

"for his method of making the paths of electrically charged particles visible by condensation vapour."

Wilson cloud chamber

Wilson, C.T.R. *Phil. Trans.* **1899**, 192, 403

Wilson, C.T.R. *Proc. Roy. Soc. London A* **1911**, 85, 285

Wilson, C.T.R. *Proc. Roy. Soc. London A* **1912**, 87, 277

Wilson, C.T.R. *Proc. Roy. Soc. London A* **1923**, 104, 1

1928 - No prize awarded.

1929 - Owen Willans Richardson (prize for 1928)

"for his work on the thermionic phenomenon and especially for the discovery of the law named after him."

Richardson, O.W.; Cooke, H.L. *Phil. Mag.* **1911**, 20, 173

Richardson, O.W. *Phil. Mag.* **1911**, 20, 981; 999

Richardson, O.W.; Cooke, H.L. *Phil. Mag.* **1911**, 21, 404

Richardson, O.W. *Phil. Mag.* **1912**, 22, 669

Richardson, O.W. *Phil. Mag.* **1913**, 24, 737

Richardson, O.W. *Phil. Mag.* **1916**, 31, 149

Richardson, O.W.; Sheard, C. *Phil. Mag.* **1916**, 31, 497

Richardson, O.W.; Robertson, F.S. *Phil. Mag.* **1922**, 43, 557

Richardson, O.W. *Proc. Roy. Soc. London* **1924**, 105A, 387

Richardson, O.W. *Phys. Rev.* **1924**, 23, 153

Richardson, O.W. *Proc. Phys. Soc. London* **1924**, 36, 383

Richardson, O.W.; Tanaka, T. *Proc. Roy. Soc. London* **1924**, 106A, 640

Richardson, O.W.; Young, A.F.A. *Proc. Roy. Soc. London* **1925**, 107A, 377

Richardson, O.W.; Robertson, F.S. *Proc. Roy. Soc. London* **1927**, 115A, 280

1929 - Prince Louis-Victor de Broglie (prize for 1929)

"for his discovery of the wave nature of the electron."

de Broglie's law, de Broglie wavelength

de Broglie, L., *Ann. Physik* **1925**, 3, 22

de Broglie, L., *Nature* **1923**, 112, 540

de Broglie, L., *Ann. Phys.* **1925**, 3, 22

de Broglie, L., *Compt. Rend.* **1923**, 177, 517; 548; 630

1930 - Chandrasekhara Venkata Raman

"for his work on the scattering of light and for the discovery of the effect named after him."

Raman spectroscopy

Raman, C.V. *Nature* **1922**, 109, 42
 Raman, C.V. *Nature* **1923**, 112, 281
 Raman, C.V. *J. Opt. Soc. Am.* **1927**, 15, 185
 Raman, C.V.; Krishnan, K.S. *Nature* **1928**, 121, 501; 619
 Raman, C.V., *Indian J. Phys.* **1928**, 2, 387

1931 - No prize awarded.

1932 - No prize awarded.

1933 - Werner Heisenberg (prize for 1932)

"for the creation of quantum mechanics, the application of which has, inter alia, led to the discovery of the allotropic forms of hydrogen."

Heisenberg uncertainty principle

Heisenberg, W., *Z. Physik* **1927**, 43, 172

1933 - Erwin Schrödinger and Paul Adrien Maurice Dirac (prize for 1933)

"for the discovery of new productive forms of atomic theory."

Schrödinger equation

Schrödinger, E., *Ann. Physik* **1926**, 79, 361
 Schrödinger, E., *Ann. Physik* **1926**, 79, 489
 Schrödinger, E., *Ann. Physik* **1926**, 80, 437
 Schrödinger, E., *Ann. Physik* **1926**, 81, 109

Quantum theory of electron

Dirac, P.A.M. *Proc. Roy. Soc.* **1927**, 117A, 610
 Dirac, P.A.M. *Proc. Roy. Soc.* **1928**, 118A, 351
 Dirac, P.A.M., *The Principles of Quantum Mechanics*, Clarendon Press: Oxford, 1958

1934 - No prize awarded.

1935 - James Chadwick

"for the discovery of the neutron."

Discovery of neutron

Chadwick, J. *Nature* **1932**, 129, 312
 Chadwick, J. *Proc. Roy. Soc. London A* **1932**, 136, 692
 Chadwick, J. *Z. Elektrochem.* **1932**, 38, 546
 Chadwick, J. *Brit. J. Radiol.* **1933**, 6, 24
 Chadwick, J. *Proc. Roy. Soc. London A* **1933**, 142, 1

1936 - Victor Franz Hess

"for his discovery of cosmic radiation."

Hess, V.F. *Physik. Z.* **1926**, 27, 159
 Hess, V.F.; Mathias, O. *Sitzber. Akad. Wiss. Wien* **1928**, 137(Abt. 2a), 327

1936 - Carl David Anderson

"for his discovery of the positron."

Discovery of positron

- Anderson, C.D. *Phys. Rev.* **1933**, 43, 491
 Anderson, C.D.; Neddermeyer, S.H. *Phys. Rev.* **1933**, 43, 1034
 Neddermeyer, S.H.; Anderson, C.D. *Phys. Rev.* **1934**, 45, 498
 Anderson, C.D.; Neddermeyer, S.H. *Phys. Rev.* **1934**, 45, 653
 Anderson, C.D. *Naturwiss.* **1934**, 22, 293

1937 - Clinton Joseph Davisson and George Paget Thomson

"for their experimental discovery of the diffraction of electrons by crystals."

Electron diffraction by crystals

- Davisson, C.J.; Germer, L.H. *Phys. Rev.* **1920**, 15, 330
 Davisson, C.J.; Pidgeon, H.A. *Phys. Rev.* **1920**, 15, 553
 Davisson, C.J.; Kunsman, C.H. *Science* **1921**, 54, 522
 Davisson, C.J.; Kunsman, C.H. *Phys. Rev.* **1922**, 19, 534
 Davisson, C.J.; Kunsman, C.H. *Phys. Rev.* **1922**, 20, 110
 Davisson, C.J.; Kunsman, C.H. *Phys. Rev.* **1923**, 22, 242
 Davisson, C.J. *Phys. Rev.* **1923**, 21, 637
 Davisson, C.J.; Germer, L.H. *Nature* **1927**, 119, 558
 Davisson, C.J.; Germer, L.H. *Phys. Rev.* **1927**, 30, 705
 Davisson, C.J.; Germer, L.H. *Proc. Natl. Acad. Sci. USA* **1928**, 14, 317; 619
 Davisson, C.J. *J. Franklin Inst.* **1928**, 205, 597
 Davisson, C.J.; Germer, L.H. *Phys. Rev.* **1928**, 31, 155
 Thomson, G.P. *Proc. Roy. Inst. Gt. Brit.* **1928**, 122, 470
 Thomson, G.P. *Phil. Mag.* **1928**, 6[7], 939
 Thomson, G.P. *Nature* **1929**, 123, 912
 Thomson, G.P. *Proc. Roy. Soc. London* **1929**, A125, 352
 Thomson, G.P. *Proc. Roy. Soc. London* **1930**, A128, 649
 Thomson, G.P. *Nature* **1930**, 126, 55
 Thomson, G.P. *Proc. Roy. Soc. London* **1931**, A133, 1
 Davisson, C.J.; Germer, L.H. *Phys. Rev.* **1931**, 38, 124
 Thomson, G.P. *Nature* **1935**, 135, 492

1938 - Enrico Fermi

"for his demonstration of the existence of new radioactive elements produced by neutron irradiation, and for his related discovery of nuclear reactions brought about by slow neutrons."

Synthesis of new radioactive elements using slow neutrons

- Fermi, E. *Nature* **1934**, 133, 757; 898
 Fermi, E.; Pontecorvo, B.; Rasetti, F. *Ricerca Sci.* **1934**, 5(II), 380
 Amaldi, E.; Fermi, E. *Ricerca Sci.* **1935**, 6, 344; 443
 Fermi, E.; Amaldi, E. *Phys. Rev.* **1936**, 50, 899
 Amaldi, E.; Fermi, E. *Ricerca Sci.* **1936**, 7(I), 310; 393
 Amaldi, E.; Fermi, E.; Rasetti, F. *Ricerca Sci.* **1937**, 8(II), 40
 Fermi, E.; Amaldi, E.; Wick, G.C. *Phys. Rev.* **1938**, 53, 493
 Fermi, E.; Amaldi, E. *Phys. Rev.* **1938**, 53, 493
 Anderson, H.L.; Fermi, E.; Hanstein, H.B. *Phys. Rev.* **1939**, 55, 797
 Anderson, H.L.; Fermi, E.; Szilard, L. *Phys. Rev.* **1939**, 56, 284

Fermi, E. *Science* **1940**, 92, 269

Fermi, E. *Nature* **1940**, 146, 640

Chain reacting atomic pile

Fermi, E.; Segre, E. *Phys. Rev.* **1941**, 59, 680

Fermi, E. *Proc. Am. Phil. Soc.* **1946**, 90, 20

1939 - Ernest Orlando Lawrence

"for his invention and development of the cyclotron and for results obtained with it, especially with regard to artificial radioactive elements."

Development of the cyclotron

Lawrence, E.O.; Livingston, M.S. *Science* **1930**, 72, 376

Lawrence, E.O.; Livingston, M.S. *Phys. Rev.* **1931**, 38, 834

Lawrence, E.O.; Livingston, M.S. *Phys. Rev.* **1932**, 40, 19

Lawrence, E.O.; Livingston, M.S. *Phys. Rev.* **1934**, 45, 608

Lawrence, E.O.; Cooksey, D. *Phys. Rev.* **1936**, 50, 1131

Lawrence, E.O. *Prix Nobel* **1951**, 127

1940 - No prize awarded due to WWII.

1941 - No prize awarded due to WWII.

1942 - No prize awarded due to WWII.

1943 - No prize awarded due to WWII.

1944 - Otto Stern (prize for 1943)

"for his contribution to the development of the molecular ray method and his discovery of the magnetic moment of the proton."

Molecular ray method

Stern, O. *Z. Physik* **1926**, 39, 751

Knauer, ; Stern, O. *Z. Physik* **1926**, 39, 764

Knauer, ; Stern, O. *Z. Physik* **1929**, 53, 766

Estermann, I.; Stern, O. *Z. Physik* **1933**, 85, 135

Stern, O. *Phys. Rev.* **1937**, 51, 1028

Magnetic moment of proton

Frisch, R.; Stern, O. *Z. Physik* **1933**, 85, 4

Estermann, I.; Stern, O. *Z. Physik* **1933**, 85, 17

Estermann, I.; Frisch, R.; Stern, O. *Nature* **1933**, 132, 169

Estermann, I.; Simpson, O.C.; Stern, O. *Phys. Rev.* **1937**, 52, 535

1944 - Isidor Isaac Rabi (prize for 1944)

"for his resonance method for recording the magnetic properties of atomic nuclei."

Rabi, I. I. Univ. of Hamburg, *Nature* (London, United Kingdom) (1929), 123 163-4.

Rabi, I. I. *Zeitschrift fuer Physik* (1929), 54 190-7

Rabi, I. I.; Cohen, V. W. *Physical Review* (1933), 43 582-3.

Millman, Sidney; Fox, Marvin; Rabi, I. I. *Physical Review* (1934), 46 320

- Rabi, I. I.; Kellogg, J. M. B.; Zacharias, J. R. *Physical Review* (1934), 46 157-63.
 Rabi, I. I.; Kellogg, J. M. B.; Zacharias, J. R. *Physical Review* (1934), 46 163-5
 Rabi, I. I.; Cohen, V. W. *Physical Review* (1934), 46 707-12.
 Rabi, I. I. *Physical Review* (1936), 49 324-8
 Rabi, I. I. *Physical Review* (1935), 337 338.
 Rabi, I. I. *Physical Review* (1937), 51 652-4.
 Millman, S.; Rabi, I. I.; Zacharias, J. R. *Physical Review* (1938), 53 384-91
 Rabi, I. I.; Millman, S.; Kusch, P.; Zacharias, J. R. *Physical Review* (1939), 55 526-35.
 Kusch, P.; Millman, S.; Rabi, I. I. *Physical Review* (1939), 55 1176-81.
 Kusch, P.; Millman, S.; Rabi, I. I. *Physical Review* (1940), 57 765-80.
 Bloch, F.; Rabi, I. I. Stanford Univ., CA, *Reviews of Modern Physics* (1945), 17 237-44.
 Nafe, J. E.; Nelson, E. B.; Rabi, I. I. Columbia Univ., *Physical Review* (1947), 71 914-15.
 Rabi, I. I. Columbia Univ., *Physical Review* (1952), 87 379.
 Buck, P.; Rabi, I. I. Columbia Univ., *Physical Review* (1957), 107 1291-4.

1945 - Wolfgang Pauli

"for the discovery of the exclusion principle, also called the Pauli principle."

Pauli exclusion principle

Pauli, W., *Naturwiss.* **1924**, 12, 741

Pauli principle

Pauli, W., *Phys. Rev.* **1940**, 58, 716

1946 - Percy Williams Bridgman

"for the invention of an apparatus to produce extremely high pressures, and for the discoveries he made therewith in the field of high pressure physics."

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