

# 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.; Thoraues, R. *Phil. Mag.* **1925**, 49, 513  
 Siegbahn, M.; Thoraues, 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.  
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 Rabi, I. I. *Physical Review* (1936), 49 324-8  
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 Rabi, I. I. *Physical Review* (1937), 51 652-4.  
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### 1991 - Pierre-Gilles de Gennes

*"for discovering that methods developed for studying order phenomena in simple systems can be generalized to more complex forms of matter, in particular to liquid crystals and polymers."*

### Scaling laws

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### 1992 - Georges Charpak

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### 1993 - Russell A. Hulse and Joseph H. Taylor, Jr.

*"for the discovery of a new type of pulsar, a discovery that has opened up new possibilities for the study of gravitation."*

### 1994 - Bertram N. Brockhouse

*"for the development of neutron spectroscopy."*

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*"for pioneering contributions to astrophysics, in particular for the detection of cosmic neutrinos."*

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## 2002 - Riccardo Giacconi

*"for pioneering contributions to astrophysics, which have led to the discovery of cosmic X-ray sources."*

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Three scientists have been awarded the 2020 Nobel Prize in Physics for work to understand black holes. Sir Roger Penrose, Reinhard Genzel and Andrea Ghez were announced as this year's winners at a news conference in Stockholm. The winners will share the prize money of 10 million krona (Å£864,200). UK-born mathematical physicist Sir Roger, from the University of Oxford, demonstrated that black holes were an inevitable consequence of Albert's Einstein's general theory of relativity. Reacting to the win, he told the BBC: "It was an extreme honour and great pleasure to hear the news this morning, in a slightly unusual way - I had to get out of my shower to hear it." Among scientific awards, he said, this is "the prime one". Partner Relations Manager at Nobel Prize Outreach, Stockholm.

Awarded the first Nobel Prize in Physics, Wilhelm Röntgen discovered X-radiation. This X-ray tube became a frequently used instrument in medicine after this discovery. © Nobel Media. Photo: Alexander Mahmoud. About the prize. "The said interest shall be divided into five equal parts, which shall be apportioned as follows: - one part to the person who shall have made the most important discovery or invention within the field of physics" (Excerpt from the will of Alfred Nobel). Physics was the prize area which Alfred Nobel mentioned first in his will from 1895. The Nobel Prize in Physics was awarded to three astrophysicists Tuesday for work that was literally out of the world, and indeed the universe. They are Roger Penrose, an Englishman, Reinhard Genzel, a German, and Andrea Ghez, an American. As they hailed the news, some astronomers and physicists lamented the absence of Stephen Hawking, the Cambridge University cosmologist who was arguably the world's leading black hole theorist until he died in 2018, making him ineligible for the Nobel. Shortly after Dr. Penrose made his breakthrough calculations, Dr. Hawking and Dr. Penrose collaborated using the same methods to prove that if general relativity was right, the universe must also have had a beginning a fairly big discovery. The Noble prize is given to those physicists who conferred the most outstanding contributions for mankind (in physics). Wilhelm Röntgen, a German/Dutch physicist, was the first person who had received the first Nobel Prize in 1901. Wilhelm Röntgen had received the Nobel Prize for discovery of the remarkable x-rays). In the field of physics (by the time), only two women have won the Nobel Prize, namely Marie Curie (in 1903) and Maria Goeppert Mayer (in 1963). The following table illustrates some of the significant physicists who have received the Nobel Prize along with their remarkable works. Name. Year: Country. The Nobel Prize for Physics has been awarded to Dr. Georg Bednorz and Professor Dr. Alex Müller by the Royal Swedish Academy of Sciences for their important breakthrough in the discovery of superconductivity in ceramic materials. This discovery is quite recent "less than two years old" but it has already stimulated research and development throughout the world to an unprecedented extent. Sometimes the heat is desirable as in a hot plate or a toaster, occasionally it is undesirable as when electric power is produced and distributed and when it is used in electromagnets, in computers and in many other devices. The Dutch scientist Heike Kamerlingh-Onnes was awarded the Nobel Prize for Physics in 1913.