

Nobel Prizes in Physics

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NOBEL PRIZE PHYSICS			
YEAR	NAME OF SCIENTISTS	NATIONALITY	TYPE OF PHYSICS
1901	Wilhelm Conrad Roentgen	German	radiation
1902	Henrik Antoon Lorentz	Dutch	magnetism, radiation
1902	Pieter Zeeman	Dutch	magnetism, radiation
1903	Pierre Curie	French	radiation
1903	Marie Curie	French	radiation
1903	Antoine Henri Becquerel	French	radiation
1904	Lord John William Strutt Rayleigh	British	gases
1905	Philipp Eduard Anton Lenard	Hungarian-German	cathode rays
1906	Sir Joseph John Thomson	British	gases
1907	Albert Abraham Michelson	German-American	spectroscopy
1908	Gabriel Lippmann	French	optics
1909	Guglielmo Marconi	Italian	telegraphy
1909	Carl Ferdinand Braun	German	telegraphy
1910	Johannes Diderik van der Waals	Dutch	gases
1911	Wilhelm Wien	German	radiation
1912	Nils Gustaf Dalen	Swedish	gases
1913	Heike Kamerlingh-Onnes	Dutch	cryogenics
1914	Max von Laue	German	crystallography
1915	Sir William Henry Bragg	British	crystallography

1915	Sir William Lawrence Bragg	British	crystallography
1916	no prize awarded		
1917	Charles Glover Barkla	British	radiation
1918	Max Planck	German	quantum theory, radiation
1919	Johannes Stark	German	spectroscopy
1920	Charles Edouard Guillaume	Swiss	material science
1921	Albert Einstein	Swiss-German-American	theoretical physics
1922	Neils Bohr	Danish	atomic structure
1923	Robert Andrews Millikan	American	electricity
1924	Karl Manne Georg Siegbahn	Swedish	spectroscopy
1925	James Franck	German-American	atomic structure
1925	Gustav Hertz	German	atomic structure
1926	Jean Baptiste Perrin	French	atomic structure
1927	Arthur Holly Compton	American	atomic structure
1927	Charles Thomson Rees Wilson	British	atomic structure
1928	Sir Owen Willans Richardson	British-American	thermoionic phenomena
1929	Prince Louis Victor de Broglie	French	atomic structure
1930	Sir Chandrasekhara V. Raman	Indian	spectroscopy
1931	no prize awarded		
1932	Werner Heisenberg	German	quantum theory
1933	Erwin Schrodinger	Austrian	quantum theory
1933	Paul Adrien Maurice Dirac	British	quantum theory
1934	no prize awarded		
1935	Sir James Chadwick	British	atomic structure
1936	Victor Franz Hess	Austrian-American	radiation
1936	Carl David Anderson	American	atomic structure
1937	Clinton Joseph Davison	American	crystallography
1937	Sir George Paget Thomson	British	crystallography
1938	Enrico Fermi	Italian	nuclear physics
1939	Ernest Orlando Lawrence	American	nuclear physics
1940	no prize awarded		
1941	no prize awarded		

1942	no prize awarded		
1943	Otto Stern	German	atomic structure
1944	Isidor Isaac Rabi	Austrian-American	nuclear physics
1945	Wolfgang Pauli	Austrian-American	quantum theory
1946	Percy Williams Bridgman	American	high energy physics
1947	Sir Edward Victor Appleton	British	atmospheric physics
1948	Lord Patrick Maynard Stuart Blackett	British	nuclear physics, radiation
1949	Hideki Yukawa	Japanese	theoretical physics
1950	Cecil Frank Powell	British	nuclear physics
1951	Sir John Douglas Cockcroft	British	nuclear physics
1951	Ernest Thomas Sinton Walton	Irish	nuclear physics
1952	Felix Bloch	Swiss-American	nuclear magnetic resonance
1952	Edward Mills Purcell	American	nuclear magnetic resonance
1953	Frederik Zernike	Dutch	microscopy
1954	Max Born	German	quantum theory
1954	Walther Bothe	German	quantum theory
1955	Willis Eugene Lamb	American	spectroscopy
1955	Polykarp Kusch	German-American	atomic theory
1956	William Shockley	British-American	semiconductors
1956	John Bardeen	American	semiconductors
1956	Walter Houser Brattain	American(b. Amoy, China)	semiconductors
1957	Chen Ning Yang	Chinese-American	particle physics
1957	Tsung-Dao Lee	Chinese-American	particle physics
1958	Pavel Alekseyevich Cherenkov	Russian	radiation
1958	Ilya Mikhailovich Frank	Russian	radiation
1958	Igor Yevgenyevich Tamm	Russian	radiation
1959	Emilio Gino Segre	Italian	particle physics
1959	Owen Chamberlain	American	particle physics
1960	Donald A. Glaser	American	bubble chamber
1961	Robert Hofstadter	American	particle physics
1961	Rudolf Ludwig Mossbauer	German	radiation
1962	Lev Davidovich Landau	Russian	cryogenics

1963	Eugene P. Wigner	Hungarian-American	atomic structure, quantum theory
1963	Maria Goeppert-Mayer	Polish-American	atomic structure
1963	J. Hans D. Jensen	German	atomic structure
1964	Charles H. Townes	American	quantum theory
1964	Nicolay Gennadiyevich Basov	Russian	quantum theory
1964	Aleksandr Mikhailovich Prokhorov	Russian (b. Australia)	quantum theory
1965	Sin-Itiro Tomonaga	Japanese	quantum theory
1965	Julian Schwinger	American	quantum theory
1965	Richard P. Feynman	American	quantum theory
1966	Alfred Kastler	French	optics
1967	Hans Albrecht Bethe	German-American	nuclear physics
1968	Luis W. Alvarez	American	particle physics
1969	Murray Gell-Mann	American	particle physics
1970	Hannes Alfvén	Swedish	plasma physics
1970	Louis Néel	French	solid state physics
1971	Dennis Gabor	Hungarian-British	optics
1972	John Bardeen	American	superconductivity
1972	Leon N. Cooper	American	superconductivity
1972	J. Robert Schrieffer	American	superconductivity
1973	Leo Esaki	Japanese	semi and superconductivity
1973	Ivar Giaever	Norwegian-American	semi and superconductivity
1973	Brian D. Josephson	British	electricity
1974	Sir Martin Ryle	British	astrophysics
1974	Antony Hewish	British	astrophysics
1975	Aage Bohr	Danish	atomic structure
1975	Ben Mottelson	American-Danish	atomic structure
1975	James Rainwater	American	atomic structure
1976	Burton Richter	American	particle physics
1976	Samuel C.C. Ting	American	particle physics
1977	Philip W. Anderson	American	electromagnetism
1977	Sir Nevill F. Mott	British	electromagnetism
1977	John H. van Vleck	American	electromagnetism

1978	Pyotr Leonidovich Kapitsa	Russian	cryogenics
1978	Arno A. Penzias	German-American	radiation
1978	Robert W. Wilson	American	radiation
1979	Sheldon L. Glashow	American	particle physics
1979	Abdus Salam	Pakistani-British	particle physics
1979	Steven Weinberg	American	particle physics
1980	James W. Cronin	American	particle physics
1980	Val L. Fitch	American	particle physics
1981	Nicolas Bloembergen	Dutch-American	spectroscopy
1981	Arthur L. Schawlow	American	spectroscopy
1981	Kai M. Siegbahn	Swedish	spectroscopy
1982	Kenneth G. Wilson	American	condensed phases
1983	Subramanyan Chandrasekhar	Indian-American	astrophysics
1983	William A. Fowler	American	astrophysics
1984	Carlo Rubbia	Italian-American	particle physics
1984	Simon van der Meer	Dutch	particle physics
1985	Klaus von Klitzing	Polish-German	quantum theory
1986	Ernst Ruska	German	microscopy
1986	Gerd Binnig	German	microscopy
1986	Heinrich Rohrer	Swiss	microscopy
1987	J. Georg Bednorz	Swiss	superconductivity
1987	K. Alexander Muller	Swiss	superconductivity
1988	Leon M. Lederman	American	particle physics
1988	Melvin Schwartz	American	particle physics
1988	Jack Steinberger	German-American	particle physics
1989	Norman F. Ramsey	American	atomic physics
1989	Hans G. Dehmelt	German	ion trapping
1989	Wolfgang Paul	German	ion trapping
1990	Jerome I. Friedman	American	particle physics
1990	Henry W. Kendall	American	particle physics
1990	Richard E. Taylor	Canadian-American	particle physics
1991	Pierre Gilles de Gennes	French	material science

1992	Georges Charpak	Polish-French	particle physics
1993	Russell A. Hulse	American	astrophysics
1993	Joseph H. Taylor, Jr.	American	astrophysics
1994	Bertram N. Brockhouse	Canadian-American	spectroscopy
1994	Clifford G. Shull	American	particle physics
1995	Martin L. Perl	American	particle physics
1995	Frederick Reines	American	particle physics
1996	David M. Lee	American	cryogenics
1996	Douglas D. Osheroff	American	cryogenics
1996	Robert C. Richardson	American	cryogenics
1997	Steven Chu	American	laser physics
1997	Claude Cohen-Tannoudji	French	laser physics
1997	William D. Phillips	American	laser physics
1998	Robert B. Laughlin	American	quantum theory
1998	Horst L. Stormer	German-American	quantum theory
1998	Daniel C. Tsui	Chinese-American	quantum theory
1999	Gerardus 'T Hooft	Dutch	quantum theory
1999	Martinius J.G. Veltman	Dutch	quantum theory
2000	Zhores I. Alferov	Russian	microelectronics
2000	Herbert Kroemer	German	microelectronics
2000	Jack St. Clair Kilby	American	microelectronics
2001	Eric A. Cornell	American	laser physics
2001	Carl E. Wieman	American	laser physics
2001	Wolfgang Ketterle	Germany	laser physics
2002	Raymond Davis, Jr.	American	particle physics
2002	Masatoshi Koshiro	Japanese	particle physics
2002	Riccardo Giacconi	Italian-American	x-ray astronomy
2003	Alexei A. Abrikosov	Russian-American	superconductivity-superfluidity
2003	Vitaly L. Ginzburg	Russian	superconductivity-superfluidity
2003	Anthony J. Leggett	British-American	superconductivity-superfluidity
2004	David J. Gross	American	theoretical physics
2004	H. David Politzer	American	theoretical physics

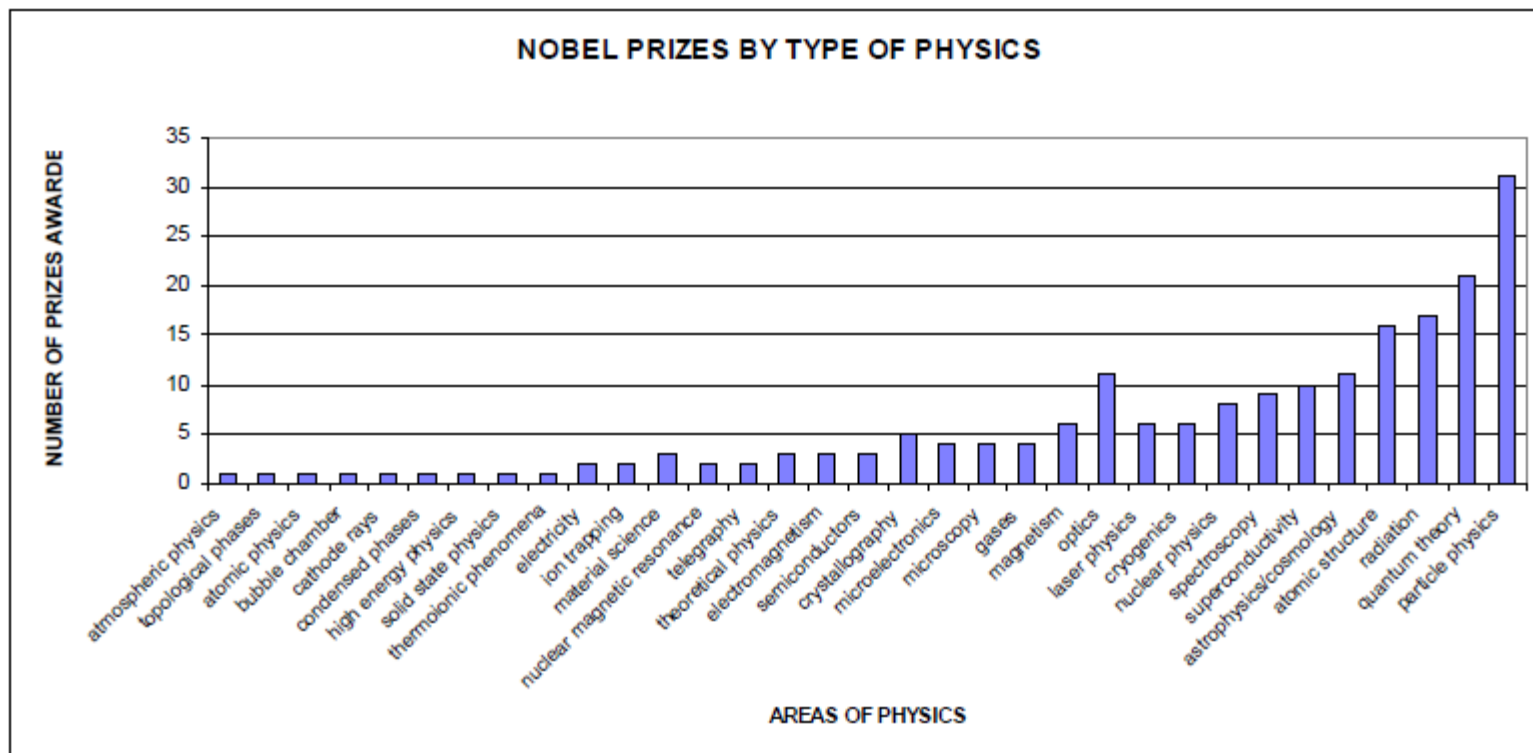
2004	Frank Wilczek	American	theoretical physics
2005	Roy J. Glauber	American	optics
2005	John Lewis Hall	American	optics
2005	Theodor W. Haensch	German	optics
2006	John C. Mather	American	cosmic microwave background radiation
2006	George F. Smoot	American	cosmic microwave background radiation
2007	Albert Fert	French	discovery of giant magnetoresistance
2007	Peter Gruenberg	German	discovery of giant magnetoresistance
2008	Yoichiro Nambu	Japanese-American	broken symmetry in subatomic physics
2008	Makato Kobayashi	Japanese	broken symmetry in subatomic physics
2008	Toshihide Maskawa	Japanese	broken symmetry in subatomic physics
2009	Charles Kuen Kao	Chinese	fiber optics
2009	Willard Sterling Boyle	Canadian-American	charge coupled device
2009	George Elwood Smith	American	charge coupled device
2010	Andre Geim	Russian-Dutch	discovery of graphene
2010	Konstantin Novoselov	Russian-British	discovery of graphene
2011	Saul Perlmutter	American	accelerating expansion of universe
2011	Brian Paul Schmidt	American-Australian	accelerating expansion of universe
2011	Adam Guy Riess	American	accelerating expansion of universe
2012	David J. Wineland	American	measuring and manipulation of individual quantum systems
2012	Serge Haroche	French	measuring and manipulation of individual quantum systems
2013	Francois Englert	Belgian	understanding of the origin of mass of subatomic particles
2013	Peter W. Higgs	British	understanding of the origin of mass of subatomic particles
2014	Isamu Akasaki	Japanese	for the invention of efficient blue light-emitting diodes
2014	Shuji Nakamura	Japanese	for the invention of efficient blue light-emitting diodes
2014	Hiroshi Amano	Japanese	for the invention of efficient blue light-emitting diodes
2015	Takaaki Kajita	Japanese	for the discovery of neutron oscillations
2015	Arthur B. McDonald	Canadian	for the discovery of neutron oscillations
2016	David J. Thouless	Scottish-American	Topological phase transitions and phases of matter
2016	F. Duncan M. Haldane	British	Topological phase transitions and phases of matter

2016	John Michael Kosterlitz	British-American	Topological phase transitions and phases of matter
2017	Rainer Weiss	German-American	LIGO detector and the observation of gravitational waves
2017	Barry C. Barish	American	LIGO detector and the observation of gravitational waves
2017	Kip S. Thorne	American	LIGO detector and the observation of gravitational waves
2018	Arthur Ashkin	American	for the optical tweezers and their application to biological systems
2018	Donna T. Strickland	Canadian	for their method of generating high-intensity, ultra-short optical pulses
2018	Gerard Mourou	French-American	for their method of generating high-intensity, ultra-short optical pulses
2019	Phillip James Peebles	Canadian-American	for theoretical discoveries in physical cosmology
2019	Didier Queloz	Swiss	for the discovery of an exoplanet orbiting a solar-type star
2019	Michel Mayor	Swiss	for the discovery of an exoplanet orbiting a solar-type star
2020	Roger Penrose	British	for the discovery that black hole formation is a robust prediction of the general theory of relativity
2020	Reinhard Genzel	German	for the discovery of a supermassive compact object at the centre of our galaxy
2020	Andrea Ghez	American	for the discovery of a supermassive compact object at the centre of our galaxy
2021	Syukuro Manabe	Japanese	for the physical modelling of Earth's climate, quantifying variability and reliably predicting global warming
2021	Klaus Hasselmann	German	for the physical modelling of Earth's climate, quantifying variability and reliably predicting global warming
2021	Giorgio Parisi	Italian	for the discovery of the interplay of disorder and fluctuations in physical systems from atomic to planetary scales
2022	Aspect, Alain	French	for experiments with entangled photons, establishing the violation of Bell inequalities and pioneering quantum information science
2022	Clauser, John	American	for experiments with entangled photons, establishing the violation of Bell inequalities and pioneering quantum information science
2022	Zeilinger, Anton	Austrian	for experiments with entangled photons, establishing the violation of Bell inequalities and pioneering quantum information science

NUMBER OF PRIZES AWARDED BY TYPE OF PHYSICS	
AREA OF PHYSICS	NUMBER OF NOBEL PRIZES
astrophysics/cosmology	12
atmospheric physics	2
atomic physics	1
atomic structure	17
bubble chamber	1
cathode rays	1
condensed phases	1

cryogenics	6
crystallography	5
electricity	2
electromagnetism	3
gases	4
high energy physics	1
ion trapping	2
laser physics	6
magnetism	6
material science	3
microelectronics	4

microscopy	4
nuclear magnetic resonance	2
nuclear physics	8
optics	11
particle physics	31
quantum theory	22
radiation	17
semiconductors	3
solid state physics	1
spectroscopy	9
superconductivity	10
telegraphy	2
theoretical physics	3
thermoionic phenomena	1
topological phases of matter	1



PRIZE YEAR	NOBEL PHYSICISTS	SUPERVISOR	Ph.D.	UNIVERSITY	DATES	Age at Prize
2003	Abrikosov, Alexei A.	Lev D. Landau	1951	Inst. Physical Problems (Moscow)	1928 -	75
2014	Akasaki, Isamu		1964	Nagoya	1929 -	85
1970	Alfven, Hannes Olof Gosta	Siegbahn, Karl Manne Georg	1934	Uppsala	1908 - 1995	62
2000	Alferov, Zhores I.	V.M. Tuchkevich	1970	A.F.Ioffe Phys.-Tech. Inst., Leningrad	1930 -	70
1968	Alvarez, Luis Walter	Arthur Compton	1936	Chicago	1911 - 1988	57
2014	Amano, Hiroshi		1989	Nagoya	1960 -	54
1936	Anderson, Carl David	Robert A. Millikan	1930	Cal Tech	1905 - 1991	31
1977	Anderson, Philip Warren	John van Vleck	1949	Harvard	1923 -	54
1947	Appleton, Sir Edward Victor	William H. Bragg	1913	Cambridge	1892 - 1965	55
2018	Ashkin, Arthur	William M. Woodward	1952	Cornell	1922 -	96
2022	Aspect, Alain	Serge Lowenthal	1983	Orsay	1947	75
1956	Bardeen, John	Eugene P. Wigner	1936	Princeton	1908 - 1991	48
1972	Bardeen, John	Eugene P. Wigner	1936	Princeton	1908 - 1991	64
2017	Barish, Barry C.	Carl Helmholz	1962	UC Berkeley	1936 -	81
1917	Barkla, Charles Glover	Sir J.J. Thomson	1899	Cambridge (M.Sc.)	1877 - 1944	40
1964	Basov, Nicolay Gennadiyevich	MA Leontovich, AM Prochorov	1956	P.N. Lebedev Institute, Moscow	1922 -	42
1903	Becquerel, Antoine Henri		1877	Ecole de Ponts et Chaussees, Paris (eng.)	1852 - 1908	51
1987	Bednorz, J. Georg	Heini Granicher, K. Alex Muller	1982	Swiss Fed. Inst. Tech., Zurich	1950 -	37
1967	Bethe, Hans Albrecht	Arnold Sommerfeld	1928	Munich	1906 - 2005	61
1986	Binnig, Gerd	E. Hoenig	1978	Johann Wolfgang Goethe U, Frankfurt	1947 -	39
1948	Blackett, Lord Patrick M. S.	Lord Ernest Rutherford	1921	Cambridge (MA)	1897 - 1974	51
1952	Bloch, Felix	Werner Heisenberg	1928	Leipzig	1905 - 1983	47
1981	Bloembergen, Nicolas	Edward M. Purcell	1948	Leiden	1920 -	61
1975	Bohr, Aage	Benjamin Mottelson	1954	Copenhagen	1922 -	53
1922	Bohr, Neils	Christian Christiansen	1911	Copenhagen	1885 - 1962	37
1954	Born, Max	Christian Felix Klein	1907	Goettingen	1882 - 1970	72
1954	Bothe, Walther	Max Planck	1914	Berlin	1891 - 1957	63
2009	Boyle, Willard Sterling	John Stuart Foster	1950	McGill	1924 -	85
1915	Bragg, Sir William Henry	Sir J.J. Thomson	1885	Cambridge (MA)	1862 - 1942	53
1915	Bragg, Sir William Lawrence	Sir J.J. Thomson, Sir W.H. Bragg	1912	Cambridge (MA)	1890 - 1971	25
1956	Brattain, Walter Houser	John Torrence Tate	1929	Minnesota	1902 - 1987	54
1909	Braun, Carl Ferdinand	Georg Quincke	1872	Berlin	1850 - 1918	59
1946	Bridgman, Percy Williams	Wallace Clement Sabine	1908	Harvard	1882 - 1961	64
	Brockhouse, Bertram					

1994	Neville	Hugh Grayson-Smith,	1950	Toronto	1918 - 2003	76
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1994	Brockhouse, Bertram Neville	James Reekie, Sir Edward Bullard	1950	Toronto	1918 - 2003	76
1929	Brogie, Prince Louis Victor de	Maurice de Broglie	1924	Sorbonne	1892 - 1987	37
1935	Chadwick, Sir James	Ernest Rutherford	1921	Cambridge	1891 - 1974	44
1959	Chamberlain, Owen	Enrico Fermi	1948	Chicago	1920 -	39
1983	Chandrasekhar, Subramanyan	Ralph H. Fowler	1933	Cambridge	1910 - 1995	73
1992	Charpak, Georges	Frederic Joliot-Curie	1954	College de France	1924 -	68
1958	Cherenkov, Pavel Aleksyevich	Sergei I. Vavilov	1930s	Leningrad	1904 - 1990	54
1997	Chu, Steven	Eugene Commins	1976	UC Berkeley	1948 -	49
2022	Clauser, John F.	Patrick Thaddeus	1969	Columbia	1942	80
1951	Cockcroft, Sir John Douglas	Pyotr Kapitsa	1928	Cambridge	1897 - 1967	54
1997	Cohen-Tannoudji, Claude	Alfred Kastler	1962	Paris	1933 -	64
1927	Compton, Arthur Holly	Owen W. Richardson, H.L. Cooke	1916	Princeton U.	1892 - 1962	35
1972	Cooper, Leon N.	Robert Serber	1954	Columbia	1930 -	42
2001	Cornell, Eric A.	David E. Pritchard	1990	MIT	1961 -	40
1980	Cronin, James Watson	Samuel K. Allison	1955	Chicago	1931 -	49
1903	Curie, Marie	Antoine H. Becquerel	1902	Sorbonne	1867 - 1934	36
1903	Curie, Pierre	Gabriel Lippmann	1895	Sorbonne	1859 - 1906	44
1912	Dalen, Nils Gustaf	Stodola (ETH-Zurich)	1896	Charmers Inst. Tech., Goteburg	1869 - 1937	43
2002	Davis, Raymond Jr.	Herbert S. Harned	1942	Yale	1914 -	88
1937	Davison, Clinton Joseph	Owen W. Richardson	1911	Princeton	1881 - 1958	56
1989	Dehmelt, Hans Georg	Hubert Krueger	1950	Goettingen	1922 -	67
1933	Dirac, Paul Adrien Maurice	Ralph H. Fowler	1926	Cambridge	1902 - 1984	31
1921	Einstein, Albert	Alfred Kleiner; Heinrich Burkhardt	1905	Zurich	1879 - 1955	42
2013	Englert, Francois	Robert Brout (post-doc advisor at Cornell)	1959	U. Libre de Bruxelles	1932 -	81
1973	Esaki, Leo		1959	Tokyo	1925 -	48
1938	Fermi, Enrico	Luigi Puccianti	1922	Pisa	1901 - 1954	37

2007	Fert, Albert	Ian A. Campbell	1970	Paris-Sud, Orsay	1938 -	69
1965	Feynman, Richard P.	John Archibald Wheeler	1942	Princeton	1918 - 1988	47
1980	Fitch, Val Logsdon	Leo James Rainwater	1954	Columbia	1923 -	57
1983	Fowler, William A.	Charles C. Lauritsen	1936	Cal Tech	1911 - 1995	72
1925	Franck, James	Emil Gabriel Warburg	1906	Berlin	1882 - 1964	43
1958	Frank, Ilja Mikhailovich	Sergei I. Vavilov	1930	Moscow State U	1908 - 1990	50
1990	Friedman, Jerome I.	Enrico Fermi	1956	Chicago	1930 -	60
1971	Gabor, Dennis	Ernst Max Orlich	1927	TH Berlin (Dr.Ing.)	1900 - 1979	71
2010	Geim, Andre	Victor Petrashov	1987	Inst. Solid State Phys., Russ. Acad. Sci.	1958 -	52
1969	Gell-Mann, Murray	Victor Weisskopf	1951	MIT	1929 -	40
1991	Genes, Pierre Gilles de	Jacques Friedel, A.Herpin, A.Abragam	1957	Centre d'Etudes Nucleaires de Saclay	1932 -	59
2020	Genzel, Reinhard	Peter G. Mezger	1978	Bonn	1952 -	68
2020	Ghez, Andrea	Gerry Neugebauer	1992	Cal Tech	1965 -	55
2002	Giacconi, Riccardo	Bruno B. Rossi (MIT)	1954	Milan	1931 -	71
1973	Giaever, Ivar	Hillard B. Huntington	1964	Rensselaer Poly. Inst., Troy	1929 -	44
2003	Ginzburg, Vitaly L.	Igor Y. Tamm	1938	Moscow	1916 -	87
1960	Glaser, Donald Arthur	Carl David Anderson	1950	Cal Tech	1926 -	34
1979	Glashow, Sheldon Lee	Julian Schwinger	1958	Harvard	1932 -	47
2005	Glauber, Roy J.	Verner Shomaker	1949	Harvard	1925 -	80
1963	Goeppert-Mayer, Maria	Max Born	1930	Goettingen	1906 - 1972	57
2004	Gross, David J.	Geoffrey F. Chew	1966	UC Berkeley	1941 -	63
2007	Gruenberg, Peter	Stefan Hufner	1969	Darmstadt	1939 -	68
1920	Guillaume, Charles Edouard	Heinrich Friedrich Weber	1882	Zurich Polytech.	1861 - 1938	59
2005	Haensch, Theodor W.	C. Schmelzer; A.L. Schawlow (Stanford)	1969	Heidelberg	1941 -	64
2016	Haldane, F. Duncan M.	Philip W. Anderson	1978	Cambridge	1951 -	65
2005	Hall, John Lewis	Robert T. Schumacher	1962	Carnegie Mellon	1934 -	71
2012	Haroche, Serge	Claude Cohen-Tannoudji	1971	U Pierre e Marie Curie	1944 -	68
2021	Hasselmann, Klaus	Walter Tollmien	1957	Goettingen	1931 -	90
1932	Heisenberg, Werner	Arnold Sommerfeld	1923	Munich	1901 - 1976	31
1925	Hertz, Gustav Ludwig	James Franck	1911	Berlin	1887 - 1975	38
1936	Hess, Victor Franz	Egon Ritter von Schweidler	1910	Graz	1883 - 1964	53
1974	Hewish, Antony	Sir Martin Ryle	1952	Cambridge	1924 -	50

2013	Higgs, Peter W.	Charles Coulson	1954	U London	1929 -	84
1961	Hofstadter, Robert	Edward U. Condon	1938	Princeton	1915 - 1990	46
1999	Hoof, Gerardus 'T	Martinus J.G. Veltman	1972	Utrecht	1946 -	53
1993	Hulse, Russell Alan	Joseph H. Taylor, Jr.	1975	U Massachusetts, Amherst	1950 -	43
1963	Jensen, Johannes Hans Daniel	Wilhelm Lenz	1936	Hamburg	1907 - 1973	56
1973	Josephson, Brian D.	Sir Alfred Brian Pippard	1964	Cambridge	1940 -	33
2015	Kajita, Takaaki	Masatoshi Koshihba	1986	Tokyo	1959 -	56
2009	Kao, Charles Kuen	George Hockhem (?)	1965	Imperial College London	1933 -	76
1913	Kamerlingh-Onnes, Heike	Robert Bunsen, Gustav Kirchhoff	1879	Groningen	1853 - 1926	60
1978	Kapitsa, Pyotr Leonidovich	Ernest Rutherford	1923	Cambridge	1894 - 1984	84
1966	Kastler, Alfred	Pierre Daure	1936	Bordeaux	1902 - 1984	64
1990	Kendall, Henry Way	Martin Deutsch	1954	MIT	1926 -	64
2001	Ketterle, Wolfgang	H. Walther	1986	Munich	1957 -	44
2000	Kilby, Jack St. Clair	No supervisor	1950	Wisconsin (M.Sc. Eng.)	1923 -	77
1985	Klitzing, Klaus von	Gottfried Landwehr	1972	Wuerzburg	1943 -	42
2008	Kobayashi, Makato	Shoichi Sakata	1972	Nagoya	1944 -	64
2002	Koshihba, Masatoshi	Morton F. Kaplon	1955	Rochester	1926 -	76
2016	Kosterlitz, John Michael	John Clayton Taylor	1969	Oxford	1942 -	74
2000	Kroemer, Herbert	Fritz Sauter	1952	Goettingen	1928 -	72
1955	Kusch, Polykarp	Francis Wheeler Loomis	1936	Illinois	1911 - 1993	44
1955	Lamb, Willis Eugene, Jr.	J. Robert Oppenheimer	1938	UC Berkeley	1913 -	42
1962	Landau, Lev Davidovich	Niels Bohr (Copenhagen)	1934	Leningrad State	1908 - 1968	54
1914	Laue, Max von	Max Planck	1903	Berlin	1879 - 1960	35
1998	Laughlin, Robert B.	John Joannopoulos	1979	MIT	1950 -	48
1939	Lawrence, Ernest Orlando	William Francis Gray Swann	1925	Yale	1901 - 1958	38
1988	Lederman, Leon Max	John Tinlot	1951	Columbia	1922 -	66
1996	Lee, David M.	Henry A. Fairbank	1959	Yale	1931 -	65
1957	Lee, Tsung-Dao	Enrico Fermi	1950	Chicago	1926 -	31
2003	Leggett, Anthony J.	John Bardeen (Illinois)	1964	Oxford	1938 -	65
1905	Lenard, Philipp Eduard	R. Bunsen; H. Helmholtz; Leo	1886	Heidelberg	1862 - 1947	43

	Anton	Koenigsberger; Georg Quincke				
1908	Lippmann, Gabriel	Gustav Kirchhoff (Heidelberg)	1875	Sorbonne	1845 - 1921	63
1902	Lorentz, Hendrik Antoon	Pieter Leonard Rijke	1875	Leiden	1853 - 1928	49
2021	Manabe, Syukuro		1957	U Tokyo	1931 -	90
1909	Marconi, Guglielmo Marchese	Vincenzo Rosa	1890s	Technical Institute of Livorno	1874 - 1937	35
2008	Maskawa, Toshihide	Shoichi Sakata	1967	Nagoya	1940 -	68
2006	Mather, John Cromwell	Paul L. Richards	1974	UC Berkeley	1946 -	60
2019	Mayor, Michel		1971	Geneva	1942 -	77
2015	McDonald, Arthur B.	Charles A. Barnes	1969	Cal Tech	1943 -	72
1984	Meer, Simon van der	Arnold van Rossem	1952	Technical U Delft	1925 -	59
1907	Michelson, Albert Abraham		1873	U.S. Naval Academy (no Ph.D.)	1852 - 1931	55
1923	Millikan, Robert Andrews	Michael Pupin	1895	Columbia	1868 - 1953	55
1961	Mossbauer, Rudolf Ludwig	Heinz Maier-Leibnitz	1958	TU Heidelberg	1929 -	32
1977	Mott, Sir Nevill Francis	Lord Ernest Rutherford	1930	Cambridge (MA)	1905 - 1996	72
1975	Mottelson, Benjamin Roy	Julian Schwinger	1950	Harvard	1926 -	49
2018	Mourou, Gerard		1973	U Pierre et Marie Curie	1944 -	74
1987	Muller, Karl Alexander	Heine Granicher	1958	Swiss Fed. Inst. Tech., Zurich	1927 -	60
2014	Nakamura, Shuji		1994	Tokushima	1954 -	60
2008	Nambu, Yoichiro		1952	Tokyo	1921 -	87
1970	Neel, Louis	Pierre Ernest Weiss	1932	Strasbourg	1904 -	66
2010	Novoselov, Konstantin	Andre Geim	2004	Radboud U (Netherlands)	1974 -	36
1996	Osheroff, Douglas D.	David M. Lee	1973	Cornell	1945 -	51
2021	Parisi, Giorgio	Nicola Cabbibo	1970	Rome	1948 -	73
1989	Paul, Wolfgang	Hans Kopfermann	1939	Berlin	1913 - 1993	76
1945	Pauli, Wolfgang	Arnold Sommerfeld	1922	Munich	1900 - 1958	45
2019	Peebles, Phillip James	Robert H. Dicke	1962	Princeton	1935 -	84
2020	Penrose, Roger	John A. Todd	1957	Cambridge	1931 -	89
1978	Penzias, Arno Allan	Charles H. Townes	1961	Columbia	1933 -	45
1995	Perl, Martin Lewis	Isidor I. Rabi	1955	Columbia	1927 -	68
2011	Perlmutter, Saul	Richard A. Muller	1986	UC Berkeley	1959 -	52
1926	Perrin, Jean Baptiste	Louis Marcel Brillouin	1897	Sorbonne	1870 - 1942	56
1997	Phillips, William Daniel	Dan Kleppner	1976	MIT	1948 -	49
1918	Planck, Max	G. Kirchhoff, H. Helmholtz	1879	Munich	1858 - 1947	60

		(Berlin)				
2004	Politzer, H. David	Sheldon L. Glashow	1974	Harvard		
1950	Powell, Cecil Frank	Charles T.R. Wilson	1927	Cambridge	1903 - 1969	47
1964	Prokhorov, Aleksandr Mikhailovich	S.M. Rytov	1951	P.N. Lebedev Institute, Moscow	1916 -	48
1952	Purcell, Edward Mills	Kenneth Tompkins Bainbridge	1938	Harvard	1912 - 1997	40
2019	Queloz, Didier	Michel Mayor	1995	Geneva	1966 -	53
1944	Rabi, Isidor Isaac	Albert P. Wills; A. Sommerfeld (Munich)	1927	Columbia	1898 - 1988	46
1975	Rainwater, Leo James	Enrico Fermi, Edward Teller	1946	Columbia	1917 - 1986	58
1930	Raman, Sir Chandrasekhara V.		1907	Presidency College Madras (MA)	1888 - 1970	42
1989	Ramsey, Norman Foster	Isidor I. Rabi	1940	Columbia	1915 -	74
1904	Rayleigh, Lord	Sir J.J. Thomson	1865	Cambridge (no Ph.D.)	1842 - 1919	62
1995	Reines, Frederick	Serge Alexander Korff	1944	NYU	1918 - 1998	77
1996	Richardson, Robert C.	Francis Bitter	1966	Duke U	1937 -	59
1928	Richardson, Sir Owen Willans	Sir J.J. Thomson	1904	London	1879 - 1959	49
1976	Richter, Burton	Bernard T. Feld	1956	MIT	1931 -	45
2011	Riess, Adam Guy	Robert P. Kirshner	1996	Harvard	1969 -	42
1901	Roentgen, Wilhelm Roentgen	August Kundt	1869	Polytech. Zurich	1845 - 1923	56
1986	Rohrer, Heinrich	Jorgen Lykke Olsen	1960	Swiss Fed. Inst. Tech., Zurich	1933 -	53
1984	Rubbia, Carlo	Marcello Conversi	1958	Pisa	1934 -	50
1986	Ruska, Ernst	Max Knoll	1933	TU Berlin	1906 - 1988	80
1974	Ryle, Sir Martin	John Ashworth Ratcliffe	1939	Oxford (BSc.)	1918 - 1984	56
1979	Salam, Abdus	Nicholas Kemmer	1951	Cambridge	1926 - 1996	53
1981	Schawlow, Arthur Leonard	Charles Townes	1951	Columbia	1921 - 1999	60
2011	Schmidt, Brian Paul	Robert P. Kirshner	1993	Harvard	1967 -	44
1972	Schrieffer, John Robert	John Bardeen, Leon Cooper	1957	Illinois	1931 -	41
1933	Schrodinger, Erwin	Friedrich Hasenohrl	1910	Vienna	1887 - 1961	46
1988	Schwartz, Melvin	Jack Steinberger	1959	Columbia	1932 -	56

1965	Schwinger, Julian	I.I. Rabi; J. Robert Oppenheimer (post-doc)	1939	Columbia	1918 - 1994	47
1959	Segre, Emilio Gino	Enrico Fermi	1928	Rome	1905 - 1989	54
1956	Shockley, William Bradford	John C. Slater	1936	MIT	1910 - 1989	46
1994	Shull, Clifford Glenwood	Frank Myers, Richard Cox	1941	NYU	1915 -	79
1981	Siegbahn, Kai Manne	Karl Manne Georg Siegbahn	1944	Stockholm	1918 - 2007	63
1924	Siegbahn, Karl Manne Georg	Johannes Rydberg	1911	Lund	1886 - 1978	38
2009	Smith, George Elwood	Andrew Werner Lawson	1959	Chicago	1930 -	79
2006	Smoot, George Fitzgerald	David H. Frisch	1971	MIT	1945 -	61
1919	Stark, Johannes	Eugen von Lommel	1897	Munich	1874 - 1957	45
1988	Steinberger, Jack	Enrico Fermi	1948	Chicago	1921 -	67
1943	Stern, Otto	Otto Sackur	1916	Breslau	1888 - 1969	55
1998	Stormer, Horst Ludwig	Hans Joachim Queisser	1977	Stuttgart	1949 -	49
2018	Strickland, Donna T.	Gerard Mourou	1989	Rochester	1959 -	59
1958	Tamm, Igor Yevgenyevich	L. Mandelstam	1933	Moscow	1895 - 1971	63
1993	Taylor, Joseph H. Jr.	Alan Maxwell	1968	Harvard	1941 -	52
1990	Taylor, Richard E.	Robert F. Mozley	1962	Stanford	1929 -	61
1937	Thomson, Sir George Paget	Sir J.J. Thomson	1913	Cambridge	1892 - 1975	45
1906	Thomson, Sir Joseph John	Edward J. Routh	1880	Cambridge	1856 - 1940	50
2017	Thorne, Kip S.	John A. Wheeler	1965	Princeton	1940 -	77
2016	Thouless, David J.	Hans Bethe	1958	Cornell	1934 -	82
1976	Ting, Samuel Chao Chung	Lawrence W. Jones; Martin L. Perl	1962	Michigan	1936 -	40
1965	Tomonaga, Sin-Itiro	Heisenberg, Werner (Leipzig)	1939	Kyoto	1906 - 1979	59
1964	Townes, Charles Hard	Edgar Bright Wilson, Jr. ?	1939	Cal Tech	1915 - 2015	49
1998	Tsui, Daniel Chee	Royal Stark	1967	Chicago	1938 -	60
1999	Veltman, Martinus J.G.	Leon van Hove	1963	Utrecht	1931 -	68
1977	Vleck, John Hasbrouck van	Edwin Crawford Kemble	1922	Harvard	1899 - 1980	78
1910	Waals, Johannes Diderik van der	Pieter Leonard Rijke	1873	Leiden	1837 - 1923	73
1951	Walton, Ernest Thomas	Lord Ernest Rutherford	1931	Cambridge	1903 - 1995	48

	Sinton					
2001	Wieman, Carl E.	Hansch, Ted; Kleppner, Daniel (MIT, undergrad)	1977	Stanford	1951 -	50
1979	Weinberg, Steven	Samuel Treiman	1957	Princeton	1933 -	46
2017	Weiss, Rainer	Jerrold Zacharias	1962	MIT	1932 -	85
1911	Wien, Wilhelm	Hermann von Helmholtz	1886	Berlin	1864 - 1928	47
1963	Wigner, Eugene P.	Michael Polanyi	1925	TH Berlin	1902 - 1995	61
2004	Wilczek, Frank	David J. Gross	1974	Princeton	1951 -	53
1927	Wilson, Charles Thomson Rees	Sir J.J. Thomson	1892	Cambridge	1869 - 1959	58
1982	Wilson, Kenneth Geddes	Murray Gell-Mann	1961	Cal Tech	1936 -	46
1978	Wilson, Robert Woodrow	John Bolton	1962	Cal Tech	1936 -	42
2012	Wineland, David J.	Norman F. Ramsey, Jr.	1971	Harvard	1944 -	68
1957	Yang, Chen Ning	Enrico Fermi	1948	Chicago	1922 -	35
1949	Yukawa, Hideki	Shoichi Sakata	1938	Osaka	1907 - 1981	42
1902	Zeeman, Pieter	Heike Kamerlingh-Onnes	1893	Leiden	1865 - 1943	37
2022	Zeilinger, Anton	Helmut Rauch	1971	Vienna	1945	77
1953	Zernike, Frederik	A. Bruining	1915	Amsterdam	1888 - 1966	65

Note: Bolded names are those that are still alive at the time of this writing.

TOP 5 UNIVERSITY RANKING		
21	Cambridge	U.K.
13	Columbia	U.S.
10	Chicago	U.S.
14	Harvard	U.S.
10	Princeton	U.S.
8	MIT	U.S.
7	Berlin	Germany
7	Cal Tech	U.S.

NATIONALITY DEMOGRAPHICS	NUMBER OF NOBEL LAUREATES

American	111
American born	73
German	34
German born	31
British	28
British born	25
French	15
French born	13
Russian	12
Japanese	11
Russian born	9
Dutch	6
Swiss	10
Austrian	5
Swedish	4
Chinese	5
Italian	5
Danish	3
Danish born	2
Hungarian	3
Polish	3
Indian	2
Canadian	6
Irish	1
Norwegian	1
Pakistani	1
Belgian	1
Australian	1
TOTAL	418

CANADIAN BORN PHYSICS NOBEL LAUREATES		
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PRIZE YEAR	NAME	PLACE OF BIRTH	EDUCATION	
1990	RICHARD E. TAYLOR	b. Medicine Hat, AB	Ph.D. 1962, Stanford	went to Stanford
1994	BERTRAM NEVILLE BROCKHOUSE	b. Lethbridge, AB	Ph.D. 1950, U Toronto	went to AEC (Chalk River), McMaster
2009	BOYLE, WILLARD STERLING	b. Amherst, NS	Ph.D. 1950, McGill U	went to Bell Labs (Murray Hill, NJ)
2015	MCDONALD, ARTHUR B.	b. Sydney, NS	Ph.D. 1969, Cal Tech	went to Queen's U
2018	STRICKLAND, DONNA T.	b. Guelph, ON	Ph.D. 1989, Rochester	went to U Waterloo
2019	PEEBLES, PHILLIP JAMES	b. Winnipeg, MN	Ph.D. 1962, Princeton	went to Princeton U

