

The Nobel Prizes in Physics



In this article we want to collect all those people who have won a Nobel Prize in Physics. A list that continues to grow and thanks to them have made great progress in the world of physics.

2015--- **McDonald, Arthur B.**

By the discovery of neutrino oscillations, which show that these particles have mass

2015--- **Kajita, Takaaki**

By the discovery of neutrino oscillations, which show that these particles have mass

2014--- **Nakamura, Shuji**

By the invention of efficient blue light emitting diodes, which has allowed the creation of bright sources of white light of low energy consumption.

2012--- **Haroche, Serge**

For the development of experimental methods for the measurement and manipulation of individual quantum systems.

2012--- **Wineland, David J.**

For the development of experimental methods for the measurement and manipulation of individual quantum systems.

2011--- **Riess, Adam G.**

By the discovery of the accelerated expansion of the universe through observations of distant supernovae.

2010--- **Geim, André K.**

For his pioneering experiments on graphene, two-dimensional material.

2009--- **Boyle, W. S.**

For the invention of a semiconductor circuit forming image, the CCD sensor.

2008--- **Nambu, Yoichiro**

For the discovery of the mechanism of spontaneous rupture of symmetry in the subatomic particles.

2005--- **Hänsch, Theodor W.**

For his contributions to the development of laser-based precision spectroscopy, including the technique of optical frequency combs.

2005--- **Hall, John**

P For his contributions to the development of laser-based precision spectroscopy, including the technique of optical frequency combs.

- 2004--- **Wilczek, Frank**
For the discovery of asymptotic freedom in the theory of strong interaction.
- 2002--- **Giacconi, Riccardo**
For their pioneering contributions to astrophysics, they have led to the discovery of cosmic X-ray sources.
- 2001--- **Wieman, Carl E.**
For having achieved condensation of Bose-Einstein in dilute gases of alkaline atoms and for some of the first fundamental studies on the properties of condensates.
- 2001--- **Cornell, Eric A.**
For having achieved condensation of Bose-Einstein in dilute gases of alkaline atoms and for some of the first fundamental studies on the properties of condensates.
- 1999--- **Veltman, M. J. G.**
To elucidate the quantum structure of electroweak interactions in physics.
- 1999--- **'t Hooft, Gerard**
To elucidate the quantum structure of electroweak interactions in physics.
- 1997--- **Phillips, William D.**
For the development of methods to cool and trap atoms by laser light.
- 1997--- **Chu, Steven**
For the development of methods to cool and trap atoms by laser light.
- 1996--- **Lee, David M.**
For the discovery of superfluidity in helium 3.
- 1995--- **Perl, Martin L.**
For the discovery of the lepton tau and its pioneering experimental contributions to lepton physics.
- 1993--- **Taylor, Joseph H.**
For the discovery of a new type of pulsar, a finding that has opened new avenues for the study of gravitation.
- 1991--- **De Gennes, Pierre-G.**
From the discovery that methods developed for the study of order phenomena in simple systems can be generalized to more complex forms of matter, in particular liquid crystals and polymers.
- 1990--- **Kendall, Henry W.**
For the pioneering investigations on the inelastic deep dispersion of electrons in protons and bound neutrons, which have been of great importance for the development of the quark model in particle physics.
- 1989--- **Ramsey, Norman F.**

For the invention of the method of separate oscillating fields and their use in the maser of hydrogen and other atomic clocks.

1988--- **Steinberger, Jack**

For the method of the neutrino beam and the demonstration of the doublet structure of the leptons through the discovery of the muonic neutrino.

1988--- **Lederman, Leon M.**

For the method of the neutrino beam and the demonstration of the doublet structure of the leptons through the discovery of the muonic neutrino.

1986--- **Rohrer, Heinrich**

By the design of the scanning tunnelling microscope

1986--- **Binnig, Gerd**

By the design of the scanning tunnelling microscope.

1985--- **Von Klitzing, Klaus**

For the discovery of the quantum Hall effect.

1984--- **Rubbia, Carlo**

For his decisive contribution to the great project that led to the discovery of the field particles W and Z, communicating the weak interaction.

1984--- **Van der Meer, Simon**

For his decisive contribution to the great project that led to the discovery of the field particles W and Z, communicating the weak interaction.

1982--- **Wilson, Kenneth G.**

For his theory of critical phenomena in connection with phase transitions.

1981--- **Schawlow, Arthur L.**

For its contribution to the development of laser spectroscopy.

1981--- **Bloembergen, N.**

For its contribution to the development of laser spectroscopy.

1980--- **Cronin, James W.**

For the discovery of violation of fundamental principles of symmetry in the disintegration of neutral K mesons.

1979--- **Weinberg, Steven**

For his contributions to the unified theory of weak and electromagnetic interactions between elementary particles, including, among others, the prediction of weak neutral current.

1967--- **Bethe, Hans A.**

For his contributions to the theory of nuclear reactions, especially his discoveries about the production of energy in the stars.

1964--- **Townes, Charles H.**

For his fundamental work in quantum electronics, which has led to the construction of oscillators and amplifiers based on the principle maser-lasers.

1921--- **Einstein, Albert**

For his services to theoretical physics and, especially, for the discovery of the photoelectric effect.