

Elementary Particle Physics

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Lecture 1 | New Revolutions in Particle Physics: Basic ConceptsElementary Particle Physics

The search for exotic 'Majorana' particles that could solve a big antimatter mystery is ramping up around the world.

The vanishing neutrinos that could upend fundamental physics

This modern introduction to particle physics equips students with the skills needed to develop a deep and intuitive understanding of the physical theory underpinning contemporary experimental results.

Elementary Particle Physics

Particle or Wave is the first popular-level book to explain the origins and development of modern physical concepts about matter and the controversies surrounding them. The dichotomy between particle ...

Particle or Wave: The Evolution of the Concept of Matter in Modern Physics

Argonne-driven technology is part of a broad initiative to answer fundamental questions about the birth of matter in the universe and the building blocks that hold it all together. Imagine the first ...

Quest to Reveal Fundamental Secrets of the Universe Driven by Curiosity and Technology

A measurement of a fundamental principle of the standard model of particle physics—lepton flavour universality—captured by the ATLAS detector at the Large Hadron Collider, is reported in a ...

Scientists discover support for disputed universal truth of particle physics

The Standard Model is the most successful scientific theory of all time. In this explainer, Cambridge physicist David Tong creates the model, piece by piece, to provide some intuition for how all ...

The Standard Model: The Most Successful Scientific Theory Ever

A measurement of a fundamental principle of the standard model of particle physics — lepton flavour universality — captured by the ATLAS detector at the Large Hadron Collider is reported in a paper ...

Physics: ATLAS experiment measurements support universal truth of particle physics

Jesse Thaler, an associate professor of physics at the Massachusetts Institute of Technology (MIT), investigates the potential of artificial intelligence (AI) in particle physics. In 2020, Thaler also ...

Using AI to Drill Down in Physics

Physicist Sinéad Ryan discusses her work in theoretical physics, what the future holds and the value of a CERN membership for Ireland.

How physics explores the world ' s unanswered questions

Virtual reality now enables everybody to explore the physical inner workings of the international large-scale KATRIN experiment at Karlsruhe ...

Tracking Down Neutrinos with Virtual Reality

In Greenland's ice sheet, a set-up unlike any other in the world will in future be listening for extremely elusive particles from space. The Radio Neutrino Observatory Greenland (RNO-G) is a ...

Chasing cosmic particles with radio antennas in Greenland's ice

Scientists detected unbelievably powerful gamma rays coming from the Crab Nebula, suggesting it's the universe's most powerful known electron accelerator.

The Crab Nebula ' s electron launcher is so powerful, it almost shouldn ' t exist

Pursuing a degree in physics can be the first step towards a variety of career opportunities. Here are four universities producing inventive thinkers through Physics.

In Europe, physics programmes with impact

This machine uses the 27 km tunnel, located underground between 50 m and 175 m depth, that was built between 1984 and 1989 for the Large Electron-Positron (LEP) collider ...

UAE University is member of ATLAS Collaboration at European Organization for Nuclear and Particle Physics Research in Switzerland

The proposed underground India-based Neutrino Observatory (INO), a prestigious particle physics science project, has been clouded by uncertainty since its very inception. The project was conceived in ...

Why the India-based Neutrino Observatory mission remains stalled

Italian physicist Ettore Majorana notoriously disappeared in 1938 without leaving a trace. His favourite elementary particles, neutrinos, might be capable of a similar vanishing act. Several new or up ...

Vanishing Neutrinos Could Upend Particle Physics

Argonne-driven technology is part of a broad initiative to answer fundamental questions about the birth of matter in the universe and the building blocks that hold it all together.

Curiosity, technology drive quest for fundamental secrets of the universe

A measurement of a fundamental principle of the standard model of particle physics - lepton flavour universality - captured by the ATLAS detector at ...

Scientists part of team to discover support for disputed universal truth of particle physics

The United Arab Emirates University (UAEU) has become a member of the ATLAS Collaboration at CERN-Large Hadron Collider (LHC) in. The LHC is a proton-proton (and heavy-ions) collider machine based at ...