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Lecture 1 | New Revolutions in Particle Physics: Basic Concepts
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The search for exotic 'Majorana' particles that could solve a big antimatter mystery is ramping up around the world.

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intelligence (AI) in particle physics. In 2020, Thaler also ...

Using AI to Drill Down in Physics

Physicist Sin é ad 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

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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.

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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

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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

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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

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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 ...

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