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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 ... is formulated in the standard model of particle physics. In the theory, electrons, muons and τ leptons represent three varieties (or flavours) of ...

Scientists discover support for disputed universal truth of particle physics

Now, measurements of a rare particle-physics decay at the Large Hadron Collider ... doubt that the standard model can be the true theory of everything. For some time now, physicists have ...

Particle Physics Discovery Raises Hope For A Theory Of Everything

A measurement of a fundamental principle of the standard model of particle physics τ lepton flavour universality τ 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

The Standard Model of Particle Physics is scientists' current best theory to describe the most basic building ... have contributed to Nobel Prize-winning discoveries and measurements that refined the ...

DOE Explains...the Standard Model of Particle Physics

Although errors in data or theory may have caused ... can do is seek τ as many anomalous measurements as possible, whether at colliders, smaller particle physics experiments, dark matter searches ...

Measurements From CERN Suggest the Possibility of a New Physics

Division of Physics: Investigator-Initiated Research Projects. The Elementary Particle Theory program encompasses different theoretical tools for understanding the interaction of elementary particles ...

Elementary Particle Physics - Theory

This book is written for students and scientists wanting to learn about the Standard Model of particle physics. Only an introductory course knowledge about quantum theory is needed. The text provides ...

Modern Elementary Particle Physics

τ Particle Fever: Particles of the Standard Model of Physics ... certain aspects and measurements of the universe imaginary themselves. That's where superstring theory comes in.

The Physics of Everything: Understanding Superstring Theory

Uniting the usually distinct areas of particle physics and quantum field theory, gravity and general relativity, this expansive and comprehensive textbook of fundamental and theoretical physics ...

Advanced Concepts in Particle and Field Theory

The Standard Model of particle physics ... the door to an era of precision measurements that have the potential to uncover yet unknown phenomena and perhaps physics beyond the Standard Model.

CERN: How we're probing the universe's origins using record precision measurements

In a few years, a new generation of quantum simulators could provide insights that would not be possible using simulations on conventional supercomputers. Quantum simulators are capable of processing ...

Quantum Simulation: Measurement of Entanglement Made Much Easier

If the known virtual particles can't sufficiently explain that gap - assuming the measurements are accurate - researchers deduce that some other, unidentified particle ... hints of new physics, Fodor ...

Could Misbehaving Muons Upend the Known Laws of Physics?

This article is the first part of a series about quantum field theory published by Quanta ... itself - abstracting them from the world of particle physics and turning them into mathematical ...

The Mystery at the Heart of Physics - That Only Math Can Solve

This measurement differed just slightly ... continue to poke holes in particle physics - most important theory. But she and other early career scientists have already left an impact for the ...

Young Physicists Are Shaping the Next Generation of Discoveries

The Standard Model of particle ... of these measurements further. Meanwhile, theoretical physicists are working on new calculations to interpret this result. The LHCb physics program will also ...

CERN's LHCb breakthrough will reveal a lot about the universe's origins

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 Standard Model of particle ... know from theory that these oscillations follow the path of a familiar type of wave (sinusoidal). Measuring the start of the wave very precisely, we can infer its ...

CERN: How We're Probing the Universe's Origins Using Record Precision Measurements

The results, published in April by the Muon g-2 collaboration (pronounced "g minus two"), run counter to the predictions of the top available particle physics theory. That leaves three ...

Could misbehaving muons upend the known laws of physics?

The Standard Model of particle ... of these measurements further. Meanwhile, theoretical physicists are working on new calculations to interpret this result. The LHCb physics programme will ...

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