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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 ...

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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 — lepton flavour
universality — captured by the
ATLAS detector at the Large
Hadron Collider is reported in a

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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 "as many anomalous measurements as possible, whether at colliders, smaller

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Theory particle physics experiments,
dark matter searches ...

Measurements From CERN

Suggest the Possibility of a New
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Initiated Research Projects. The
Elementary Particle Theory
program encompasses different
theoretical tools for
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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

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Introductory course knowledge about quantum theory is needed. The text provides ...

Modern Elementary Particle Physics

“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

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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

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Theory 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

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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.

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Familiar type of wave (sinusoidal).
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