

Quantum Field Theory

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Quantum Field Theory

Quantum field theory marries the ideas of other quantum theories to depict all particles as " excitations " that arise in underlying fields. The British physicist Paul Dirac started the ball ...

What is quantum field theory?

Quantum field theory, a framework for explaining how subatomic particles behave, among other things, is one of the most successful areas of physics, but it's still incomplete — it's poorly described ...

Mathematician Seeks to Bring Quantum Field Theory into Mainstream Math

An introduction to how the mathematical tools from quantum field theory can be applied to economics and finance, providing a wide range of quantum mathematical techniques for designing financial ...

Quantum Field Theory for Economies and Finance

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

This article is the first part of a series about quantum field theory published by Quanta Magazine. Other stories in the series can be found here. Over the past century, quantum field theory has ...

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

Presumably, this didn ' t go back in an infinite chain, but rather there was a " first cause " that led to the very existence of the Universe itself. For a long time, this picture was supported by the ...

Did The Universe Have A Beginning?

It had become obvious to the physicists of the day that a quantum version of Maxwell ' s electromagnetic field theory was needed to explain the phenomenon. This would eventually give rise to QED ...

The Birth Of Quantum Electrodynamics

Even in an incomplete state, quantum field theory is the most successful physical theory ever discovered. Nathan Seiberg, one of its leading architects, talks about the gaps in QFT and how ...

Math Meets QFT

Twenty years ago, physicists set out to investigate a mysterious asymmetry in the proton ' s interior. Their results, published today, show how antimatter helps stabilize every atom ' s core.

quantum physics

" My background has been quantum field theory. " Sen said of the physics that explains the tiny forces and interactions at subatomic scales. " I apply my work to nuclear physics, condensed matter physics ...

Iowa State physicist wins early career grant to study nuclear physics quantum phenomena

are described by quantum mechanics and quantum field theory. Quantum gravity is the field of physics that aims to develop a framework where gravity is defined using the principles of the quantum world ...

Research Experiences for Undergraduates

Beneath our everyday experience, the laws of physics describing the smallest things in the Universe host a " Quantum World " beyond our imagination! In this session, we will explore some of the deepest ...

Mysteries of the Quantum World: How physicists imagine the unimaginable

This modern text combines fundamental principles with advanced topics and recent techniques in a rigorous and self-contained treatment of quantum field theory Beginning with a review of basic ...

Quantum Field Theory

Efficient method that delivers new insights Insights from quantum field theory allow quantum state tomography to be much more efficient, i.e., to be performed with significantly fewer measurements.

Quantum simulation: Measurement of entanglement made easier

Stephen Wolfram, inventor of the Wolfram computational language and the Mathematica software, announced that he may have found a path to the holy grail of physics: A fundamental theory of everything.

quantum field theory

Insights from quantum field theory allow quantum state tomography to be much more efficient, i.e., to be performed with significantly fewer measurements. "The fascinating thing is that it was not ...

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