

Quantum Field Theory Of Point Particles And Strings Frontiers In Physics

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Quantum Field Theory Of Point

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?

It is nice to see the modern point of view on the predictive power of non-renormalizable theories discussed. Once in a generation particle physicists elevate a quantum field theory text to the rank of ...

Quantum Field Theory and the Standard Model

This Perspective addresses the properties of strongly correlated materials, with a particular focus on computational, synthetic and spectroscopic approaches.

Designing and controlling the properties of transition metal oxide quantum materials

Alexander Balandin’s Vannevar Bush Faculty Fellowship will help advance quantum materials for electronics and energy conversion ...

\$3 million award to create a new field of research in one-dimensional quantum materials

Quantum information science has the potential to transform national security, cybersecurity, and communications and network infrastructure.

Why the U.S. needs to urgently prioritize quantum investments

Vibrating aluminium membranes provide the first direct evidence of quantum entanglement in macroscopic objects.

Minuscule drums push the limits of quantum weirdness

As the digital revolution has now become mainstream, quantum computing and quantum communication are rising in the consciousness of the field. The enhanced measurement technologies enabled by quantum ...

Complex shapes of photons to boost future quantum technologies

New electron spin resonance spectroscopy experiments find a spin gap in this exotic material, casting doubt on its status ...

Promising quantum spin liquid candidate may fall short

At this point in time quantum theory was not able ... Early attempts at a Quantum Field theory ran into major hurdles. The equations were based on a perturbation expansion. This is a complex ...

The Birth Of Quantum Electrodynamics

The idea of quantum field theory is simple. Yes ... size of the lattice doesn't go beyond a certain range. There comes a point where our lattice gets large enough and the spacing gets small ...

The Big Theoretical Physics Problem At The Center Of The 'Muon g-2' Puzzle

From the most recent financial crisis of 2008, to the fifteen-minute flash crash of 2010, to the most recent short-squeeze of video-game company Game Stop; the financial markets have proven that they ...

What financial crises and quantum mechanisms have in common

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Quantum Field Theory: An Integrated Approach

Electron holes could be the solution to operational speed/coherence trade-off. A new study indicates holes the solution to operational speed/coherence trade-off, potential scaling up of qubits to a ...

Faster, Larger Quantum Computers, Tricked-Out With Qubits Comprised of Holes

This is a theory Albert Einstein ... which experts call quantum foam. The Muon g-2 experimenters examine the precession of muons that are subjected to a magnetic field. The main goal is ...

Are we close to finding a theory of everything? Leading physicist claims recent changes spotted in the standard model of physics point to a 'God Equation'

To explain this point further ... the energy barrier. Quantum tunnelling defies conventional logical causality. If we adopt the idea that space-time consists of tiny building blocks (Quanta), in line ...

The concept of occasionalism — from Imam Ghazali to the theory of Quantum mechanics

New quantum materials that promise to propel the communications of the future, an AI-driven search to uncover the fundamental laws of physics, and a project to build biomolecular motors have been ...

Quantum science, astrophysics and nanoscale motors awarded support from Eric and Wendy Schmidt Transformative Tech Fund

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

Scientists demonstrate that two-photon interference can be controlled in a near-perfect way using the spatial shape of the photon ...

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