

Quantum Field Theory And The Standard Model

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Quantum Field Theory And The

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 rolling in ...

What is quantum field theory?

Quantum field theory for the chiral clock transition in one spatial dimension, Physical Review B, [online], (Accessed May 4, 2021) ...

Quantum field theory for the chiral clock transition in one spatial dimension

The best description we have of the nature of the particles that make up matter is described by quantum mechanics.

Why Quantum Mechanics is Important

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

Herein we present a Ligand Field Density Functional Theory (LFDFT) based methodology for the analysis of the 4f_n → 4f_n-15d1 transitions in rare earth compounds and apply it for the characterization of ...

Ligand Field Density Functional Theory calculation of the 4f2 [rightward arrow]4f15d1 transitions in the quantum cutter Cs2KYF6:Pr3+

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

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

Recently, someone suggested, in text and in video while following the lead of arguably the most disingenuous contrarian in the field, that the situation surrounding dark matter has changed, and that ...

The 5 Truths About Dark Matter That Everyone Should Know

Furthermore, it has become clear that these elementary particles are a mysterious existence that repeats birth and death□=□□ syometsu, generation and destruction□ and has wave properties when it is ...

Tao and the Cosmic Principle

The first quantum hypothesis reluctantly proposed by Max Planck, in an effort to describe black-body radiation in 1900, revolutionized the world of physics. The subsequent interpretation of the ...

Quantum optics with swift electrons

Is there any scientific evidence for the existence of soul? This article aims to look at the concept of soul from a scientific perspective.

Ways to Say Goodbye: Science and Soul, A Mystery of Divine Power

Humans have long gazed at the starry sky, wondering how it works, what it means. We've probably pondered such matters since at least the evolution of the genus Homo, with its enlarged frontal cortex, ...

ART HOBSON: Pondering the universe

This white paper provides a brief overview of quantum computing, sketches the current state of research, and outlines test and measurement tools that offer meaningful advantages to those performing ...

Accelerating Research into Quantum Computing

Theories of scalars and gravity ... equivalence of different representations of the action under Weyl transformations, both classically and quantum mechanically. To avoid such "hidden contact terms" ...

Gravitational Contact Interactions and the Physical Equivalence of Weyl Transformations in Effective Field Theory

Theoretical physicist Clifford Johnson answers Symmetry writer Brianna Barbu’s questions about his work in science and outreach, including advising on movies like Avengers: Endgame.

On the marvels of physics

In order to define the Higgs field, it was necessary to find the associated particle, also known popularly as the Holy Grail of the quantum world, the secret melody or the particle of God ...

'Higgs Boson Blues': between science and pop culture

The National Academy of Sciences has elected 120 new members and 30 international associates, including five professors from MIT — Dan Freedman, Robert Griffin, Larry Guth, Stephen Morris, and Gigliol ...

Five from MIT elected to the National Academy of Sciences for 2021

There are two ways to unify gravitational field and gauge field. One is to represent gravitational field as principal bundle connection, and the other is to represent gauge field as affine connection.

Affine connection representation of gauge fields

Scientists from the University's Quantum Engineering Technology Labs (QETLabs) have developed an algorithm that provides valuable insights into the physics underlying quantum systems - paving the way ...

Machine learning algorithm helps unravel the physics underlying quantum systems

In this book, the reader will find a comprehensive review of QD design and applications written by 69 specialists in the field. Half of the book deals with fabrication methods, while the remaining ...