

Methods Of Theoretical Physics Part 1

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Methods Of Theoretical Physics Part

Quantum physicist Mario Krenn remembers sitting in a caf e in Vienna in early 2016, poring over computer printouts, trying to make sense of what MELVIN had found. MELVIN was a machine-learning ...

AI designs quantum physics experiments beyond what any human has conceived

String theory has played a highly influential role in theoretical ... physics. He argues that string theory is just the most conspicuous example of a number of theories in high-energy physics where ...

String Theory and the Scientific Method

Physicist Sin  ad Ryan discusses her work in theoretical physics, what the future holds and the value of a CERN membership for Ireland.

How physics explores the world 's unanswered questions

This book will be of great interest to graduate students wishing to learn about semi-classical methods in nuclear physics and to theoretical and experimental nuclear physicists, especially those ...

Semi-Classical Methods for Nucleus-Nucleus Scattering

Researchers at ETH Zurich have succeeded in observing a crystal that consists only of electrons. Such Wigner crystals were already predicted almost ninety years ago but could only now be observed ...

A crystal made of electrons

Using a novel device made from carbon atoms and a laser, researchers captured real-time electrical signals from muscle tissue.

A Graphene 'Camera' Images the Activity of Living Heart Cells

Jesse Thaler, an associate professor of physics at the Massachusetts Institute of Technology (MIT), investigates the potential of artificial intelligence (AI) in particle physics. In 2020, Thaler also ...

Using AI to Drill Down in Physics

Looking back at some of the key figures in Argonne's history offers a chance to reflect on some accomplishments that have transformed American science through discoveries in energy, climate, health, ...

People of Argonne's history: A look at leaders who made Argonne what it is today

Pure quantum systems can undergo phase transitions analogous to the classical phase transition between the liquid and gaseous states of water. At the quantum level, however, the particle spins in ...

Quantum phase transition discovered in a quasi-2D system consisting purely of spins

For more than 50 years, mathematicians have been searching for a rigorous way to prove that an unusually strong symmetry is universal across physical systems at the mysterious juncture where they ' re ...

Mathematicians Prove Symmetry of Phase Transitions

This superficial approach – in which people reduced their understanding of string theory and its amazing properties to some mundane, constantly repetitive ideas about AdS/CFT, especially those that ...

Deterioration of the World 's Thinking About the Deepest Stringy Ideas

International team led by University of Warwick makes rare sighting of a binary star system heading towards supernova Star system 's fate was identified from its unusual light variations, a sign that o ...

Impending Supernova Doom: Astronomers Rare Sighting of a Teardrop-Shaped Star

Researchers at ETH Zurich have succeeded in observing a crystal that consists only of electrons. Such Wigner crystals were already predicted almost ninety years ago but could only now be observed ...

A Crystal Made Exclusively of Electrons – 'Holy Grail' Wigner Crystals Observed for First Time

Springy ice crystals that bend without breaking are offering scientists new insights into ice 's fundamental properties. Ice is known as a hard, brittle material.

Elastic ice stretch the limits of frozen physics

A single ice crystal formed into a thin strand can bend almost into a circle and then snap back into its original shape, making it the most elastic form of water ice ever made ...

New kind of ice is so bendy it can curl and uncurl without breaking

Present address: Faculty of Physics, Warsaw University of Technology ... Our findings reveal that long-range motions play a decisive part in the electronic decoupling of the electronically correlated ...

Nuclear dynamics of singlet exciton fission in pentacene single crystals

The list includes four faculty members from MIT: Riccardo Comin of the Department of Physics; Netta Engelhardt of the Department of Physics and Center for Theoretical Physics ... of lensless X-ray ...

Four MIT faculty members receive 2021 US Department of Energy early career awards

In doing so, they have confirmed a theoretical prediction that was made almost ninety years ago and which has since been regarded as a kind of holy grail of condensed matter physics. Their results ...