

## Physics Research Papers

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### Physics Research Papers

The established theory of particle physics is called the standard model, and has passed a vast number of experimental tests with flying colours. But one such test — the determination of the magnetic ...

#### Prediction for magnetic moment of the muon informs a test of the standard model of particle physics

Recent research seems to challenge the fundamentals of the field. The U.S. should support the quest for answers.

#### Why Congress Should Care About the Laws of Physics

The seabirds save a great deal of energy by using updrafts generated by breaking ocean waves to stay aloft without flapping their wings, researchers say.

#### How do pelicans glide gracefully above waves? Paper uncovers physics behind maneuvers.

Although robotic devices are used in everything from assembly lines to medicine, engineers have a hard time accounting for the friction that occurs when those robots grip objects - particularly in wet ...

#### New law of physics helps humans and robots grasp the friction of touch

In a lab at USC, Mercedeh Khajavikhan engineers new structures that change the shape of light as it is transported. She creates groundbreaking structures in a field of science called photonics. Her ...

#### Photonics research harnesses the power of light

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

#### Machine learning algorithm helps unravel the physics underlying quantum systems

PhD studies at ITMO University is an opportunity to build a career and become a specialist with a high level of expertise in their field, with published papers in journals with a high impact factor, a ...

#### ITMO: PhD Studies at ITMO University's Faculty of Physics and Engineering

The university has played a critical role in developing Nobel Prize-winning science at SNOLAB, located in Creighton Mine In 1985, as chair of the Department of Physics at Laurentian University, I met ...

#### Sudbury column: Laurentian must continue particle astrophysics research

Protocol to reverse engineer Hamiltonian models advances automation of quantum devices. Scientists from the University of Bristol's Quantum Engineering Technology Labs (QETLabs) have developed an algo ...

#### Artificial Intelligence Algorithm Helps Unravel the Physics Underlying Quantum Systems

James Green went on to PhD studies in the Plasma group. Abigail Kennedy , Nathaniel Kajumba and James Meakins Three MSci students (Abigail Kennedy, Nathaniel Kajumba and James Meakins) carried out ...

#### Plasma Physics

Researchers at North Carolina State University are said to have discovered a new law of physics that could enable improved friction and grip in robotics.

#### New law of physics could improve grip in robotics

Tso-Ping Ma, the Raymond J. Wean Professor of Electrical Engineering and Applied Physics, died on April 6, 2021, at the age of 75. According to the School of Engineering and Applied Science's website, ...

#### Tso-Ping Ma, Raymond J. Wean Professor of Electrical Engineering and Applied Physics, dies at 75

Yet on top of all that, he managed to cofound the first undergraduate research journal at Rutgers to publish student papers from any academic discipline. The first two issues of the journal were ...

#### Rutgers Senior Helps Launch New Undergraduate Research Journal

DCU appoints two leading academics in the areas of plasma physics and computer science under the Senior Academic Leadership Initiative ...

#### DCU appoints two leading academics in the areas of plasma physics and computer science under the Senior Academic Leadership Initiative

The station is uniquely positioned—literally—to provide invaluable insight into atmospheric composition and climate variables. “In a nutshell, at Mace Head, we can sample the cleanest—and the most ...

#### “Cleanest Air in Europe” Contributes to Climate Change Research

The one who holds this position should engage in high-quality teaching and fulfill the teaching requirements of the relevant school or department.

#### Senior Lecturer/Associate Professor/Professor in Physics

Onkar Nath Srivastava, BHU died of Covid at BHU hospital. Noted physicist Prof. Onkar Nath Srivastava, Emeritus Professor, Banaras Hindu University (BHU), who was awarded the Padma Shri in 2016 for ...

#### Padma Shri BHU Physics Professor succumbs to COVID 19

The most extraordinary event of the year — and perhaps the 21st century — made few national headlines. But it may just alter the future of the human race, and ...

#### Commentary: Why Congress should care about the laws of physics

Although robotic devices are used in everything from assembly lines to medicine, engineers have a hard time accounting for the friction that occurs when those robots grip objects — particularly in wet ...

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