

Foundations Of Astrophysics

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Greater insight into the pinning effects of skyrmions
Levitated nanoparticles are promising tools for sensing ultra-weak forces of biological, chemical or mechanical origin and even for testing the foundations of quantum physics. However, such ...

Position measurement of a levitated nanoparticle via interference with its mirror image
In June 2023, 25 young astronomers from around the world will gather at the Vatican Observatory in Castel Gandolfo for an intensive four-week astrophysics ...

Astrophysics: In June 2023 Intensive School of the Vatican Observatory
Theoretical physicist James Vary has been waiting for nuclear physics experiments to confirm the reality of a "tetra-neutron" that he and his colleagues theorized, predicted, and first announced during ...

Experimental Discovery of a Tetra-neutron " An Exotic State of Matter
Armed with new data, the team used modeling to determine that this little pterosaur had the capacity to launch itself from the water. Their findings are published in Scientific Reports. Pterosaursian ...

Physics meets paleontology: The hotly debated mechanics of pterosaur flight
Precise Insights into the Supermassive Black Hole in the Milky Way's Heart Astronomers use Gemini Observatory and an international telescope collaboration to shed light on Sagittarius A* Obtained with ...

Is Something Else Hidden at the Center of the Milky Way?
Three Princeton professors were honored today as recipients of some of the world's most prestigious awards for work in mathematics. A Harvard professor also was honored with another coveted ...

Three Princeton Faculty Claim Some Of World's Most Prestigious Awards For Mathematics
Bitcoin has a deep connection to complexity theory and thermodynamic theory. "Continuous growth and the consequent ever-increasing acceleration of the pace of life have profound consequences for the ...

Bitcoin And The Thermodynamics Of Computation
Although hurricanes are mostly known as a result of global meteorological events, they have begun to occur more regularly in Europe as well.

Harnessing the Power of Skyrmions to Create Data Processing or Storage Equipment
Researchers have created a model that describes the spread and speed of tornado-like vortex tubes in superfluids. This work expands on a previous study that reported experimental results obtained in ...

Researchers expand understanding of vortex spread in superfluids
Groucho Marx, the famous comedian and leader of the Marx Brothers, once said, "I intend to live forever or die trying." For many of us, whose immediate concerns are focused on work, paying bills, or ...

What is the meaning of death and immortality?
Three teams of high-school students from the El sewedy Technical Academy (STA) (Cairo, Egypt), the École du Sacré-Coeur (Reims, France) and the Club ...

Three teams of high-school students from Egypt, France and Spain win the CERN Beamline for Schools competition
How do Jesuit teachers talk about God in the classroom? A group of teachers from St. Louis University High School reflect.

Finding God in math class (and physics and English, too)
The life and accomplishments of Sally Ride, the first American woman in space, are waiting to be discovered by student scientists and those who dream of outer space travel.

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