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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

Skagit Valley potato grower Tim Wallace asked his sons to fix a problem. David and Connor did and started a company to fix the same problem for other farmers.

Western Innovators: Brothers' invention solves dad's irrigation irritation

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Despite the massive use of robotic devices right from assembly lines to medicine, engineers have a tough time accounting for the friction arising when those robots hold on to objects—especially in wet ...

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Engineering is guided by three basic concerns: wear, friction and lubrication of machines - this category includes robots, used both to ...

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The intrinsic scale limit of current quantum material hinders possible development of technology, thus the discovery of a new generation of quantum materials holds the key to technological revolutions ...

Physicists develop a new algorithm solving a long standing problem in constrained quantum material models

This unusual electronic energy structure could be harnessed for technologies of interest in quantum information science and electronics. Electrons in a solid occupy distinct energy bands separated by ...

Time-Reversal Symmetry Breaking in a Superconductor

1 Institute of Semiconductor and Solid State Physics, Johannes

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Kepler University Linz ... photons generated by multiple SPDC sources provides a possible solution to this problem (18), methods to ...

Quantum cryptography with highly entangled photons from semiconductor quantum dots

Readers, interested in graphene and carbon nanotube based devices, have the possibility to train themselves on the hottest topics and challenges which will pave the future of nanotechnology.” - Simon ...

Carbon Nanotube and Graphene Device Physics

“People have tried to make a solid state battery, and they could only do it with very thin films and not much capacity,” he said. “It’s a very tricky problem ... to the University of Chicago to study ...

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At 95, John Goodenough Is Still Searching for Next Big Battery Breakthrough

Air travel will change forever, right? According to [Real Engineering], ion-propelled (full-sized) aircraft run into problems with the laws of physics. You can see the video explaining that ...

solid state airplane

The difficulty in constructing such theories is why many important questions in solid-state physics ... practical problems lies a huge quantum mystery. At a basic level, quantum physics predicts ...

Quantum physics

Below you will find Data-Centric Engineering projects offered by supervisors within the School of Physics & Astronomy. This is not an exhaustive list. If you have your own research ...

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Physics & Astronomy

Students may choose to train in semiconductor technology, solid-state physics, computer visualization ... UTSA science and engineering students with a solid background in physics and problem-solving ...

About the Department

In the classical picture, matter inherently becomes solid ... problem, quantum mechanics suggests the solution that the orientation and bond of two spins are not rigid, but the spins fluctuate ...

Experiments cast doubts on the existence of quantum spin liquids

All of the fields listed above as hot topics as well as solid state physics ... or many other seemingly unrelated areas because of their problem solving skills. Advising information for Physics ...

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