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During the past two years, a new way to image ultracold quantum gases in situ and with highest optical resolution has been established which holds the promise to revolutionize the field of quantum...

Quantum simulations with ultracold quantum gases | Nature ...

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The Senior BEC Award 2017 was given to Jean Dalibard for his "deep and continued contributions, both theoretical and experimental, to the field of Bose-Einstein condensation, in particular on the phase of interfering BEC's, the physics of rotating gases, two-dimensional Bose gases, BKT physics, and artificial gauge fields".

UQUAM - ULTRACOLD QUANTUM MATTER : UQUAM (Ultracold ...

Fermi1 uses a mixture of ultracold bosonic sodium and fermionic potassium atoms to form quantum degenerate NaK molecules. In their ground state, these molecules are chemically stable and possess a large electric dipole moment.

Research - Ultracold Quantum Gases Group

Experiments on an ultracold gas show strange quantum behavior. The observations point to applications in quantum computing. The find may also advance chaos theory and explain the butterfly effect....

Ultracold gas exhibits bizarre quantum behavior - Big Think

Engineered quantum systems made of ultracold atoms in optical lattices emerged as versatile platforms to study the properties of

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exotic quantum phases of matter.

Quantum physics: Simulating fundamental interactions with ...

AMO systems allow us to apply quantum control and measurements with great precision, offering a clean designer platform to explore fundamental issues in quantum mechanics, field theory, and statistical physics.

Purdue Physics: Hung Lab: Ultracold quantum gas and ...

Our research focus lies at the intersection of theoretical solid state and atomic physics. We are particularly interested in systems that feature a strong interplay of few- and many-body physics and aim to gain a deeper understanding of its significance for the dynamics, spectroscopic and transport properties of quantum matter realized in ultracold atomic gases and semiconducting materials.

Quantum Matter Theory - Schmidt Group

Abstract and Figures This article gives an introduction to the realization of effective quantum magnetism with ultracold molecules in an optical lattice, reviews experimental and theoretical...

(PDF) Quantum Magnetism with Ultracold Molecules

Over recent years, exciting developments in the field of ultracold atoms confined in optical lattices have led to numerous theoretical proposals devoted to the quantum simulation of problems e.g. known from condensed matter physics. Many of those ideas demand experimental environments with non-cubic lattice geometries.

Ultracold quantum gases in triangular optical lattices ...

Ultracold atoms and molecules comprise novel forms of matter that exist at temperatures below a few millionths of a degree above absolute zero, where the laws of quantum mechanics dominate.

Atomic & Molecular Physics | JILA - Exploring the ...

Examining and manipulating matter at the scale of the atom and

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molecule. Attosecond to femtosecond processes, quantum properties of atoms and photons, testing fundamental physics. Research in atomic, molecular, laser and X-ray physics at Stanford takes place in the Physics and Applied Physics Departments and in the Photon Science Department at SLAC National Accelerator

Atomic, Molecular and Optical Physics | Physics Department

Research Summary: Thomas Killian's research group studies ultracold neutral plasmas and quantum degenerate atomic atomic gases. Both experiments start with laser-cooled and trapped neutral strontium. Laser-cooling is a powerful technique for producing and trapping atoms at temperatures as low as one millionth of a degree above absolute zero.

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