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Bose Einstein Condensation Atomic Gases

Since an atomic Bose-Einstein condensate, predicted by Einstein in 1925, was first produced in the laboratory in 1995, the study of ultracold Bose and Fermi gases has become one of the most active ...

Bose–Einstein Condensation in Dilute Gases

Physicists have taken a step towards realizing the smallest-ever solid-state laser by generating an exotic quantum state known as a (BEC) in quasiparticles consisting of both matter and light.

Exotic quantum state could make smallest-ever laser

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In the first chapter we have seen what Bose-Einstein condensation is and how it is realized in atomic gases. In the second chapter I have introduced the concept of wave particle duality and ...

3. Magnon Bose Einstein Condensation

In atomic condensates this can be confirmed by measuring the velocity distribution of the atoms in the gas. The above figure shows the result of such a measurement. In the left plot, no Bose Einstein ...

i. What are the properties of a Bose Einstein Condensate?

Ketterle's achievement came out of his pursuit of an entirely new form of matter called a Bose-Einstein condensate (BEC). The condensates are not standard gases, liquids or even solids.

The Coldest Place in the Universe

Physicists from the University of São Paulo (USP) believe they have produced a Bose-Einstein Condensation ... present in the diluted gas. Following this measurement, they infer the temperature. When ...

Fifth state of matter

The atomic Bose-Einstein condensates produced macroscopic quantum states of an atomic gas. As a result of those achievements, ultra-cold atoms are now one of the most promising candidates of elements ...

Development of Quantum Computation System with Neutral Atoms

The instruments inside the box — an electromagnetic “knife,” lasers, and a vacuum chamber — will slow down gas particles ... Prize for creating Bose-Einstein condensates in a lab setting ...

NASA is Going to Create The Coldest Spot in the Known Universe

The Atomic, Molecular, and Optical Experimental Physics ... the

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collective behavior of atoms in weakly interacting gases (Bose-Einstein condensates and dilute Fermi degenerate systems),
precision ...

Atomic, Molecular and Optical Physics - Experiment

All-optical trapping of a degenerate Fermi gas has been demonstrated ... An all-optical trap has previously been used to confine a Bose-Einstein condensate (see *Physics Today*, July 2001, page 20 and ...

Physics Update

The fully automated rig will create Bose-Einstein condensates (BECs ... The orbiting lab will be a collaborative space for atomic physicists all over the world, who will work with instruments ...

New NASA Research Will Probe Inner Workings of Quantum Mechanics in Space

In 2017, however, research groups at MIT and ETH Zürich observed some properties of supersolids for the first time in a Bose-Einstein condensate (BEC) – a dilute gas of ultracold atoms deep in the ...

High-resolution imaging sheds light on supersolid formation

At nanoKelvin temperatures, billionths of a degree above absolute zero, Bose-Einstein condensates are the ... effects of quantum symmetry on atomic interactions above and below degeneracy, and will ...

Jeffrey McGuirk

Topics include dark matter, laser and quantum optics, quantum information science, ultrafast and strong field physics, cold atoms, degenerate gases ... attempted Bose-Einstein condensates from ...

Scientists to present new findings on atoms, molecules, and optics

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For more information about ColdQuanta's Cold Atom Quantum Technology, please watch The Atomic Approach to ... in 1924 with the discovery of the Bose Einstein Condensate (BEC) - also known as ...

ColdQuanta Joins The IBM Quantum Network, Bringing Cold Atom Quantum Technology to Growing Ecosystem
Pethick and Smith provide a unified introduction to the physics of ultracold atomic Bose and Fermi gases for ... Keith Burnett, Nature Review of the first edition: 'Bose-Einstein Condensation in ...

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