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### ~~Bose Einstein Condensation Atomic Gases~~

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 ...

### ~~Bose Einstein Condensation in Dilute Gases~~

The phenomenon is closely linked to Bose-Einstein condensation in other systems such as liquid helium and laser-cooled atomic gases. Covering theoretical aspects as well as recent experimental work, ...

### ~~Bose Einstein Condensation of Excitons and Biexcitons~~

In the first chapter we have seen what Bose-Einstein

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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~~

Is it possible to drive nanoparticles to orbit below the light diffraction limit using a Gaussian beam? A recent joint research project reported in Nature Communications says yes.

## ~~Scientists achieve ultra fast optical orbiting of nanoparticles at subdiffraction scale~~

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?~~

Many of us spend a lot of our younger years at school learning how the world works. From maths, history and science we take in so much knowledge during our times at school we hope it will be somehow ...

## ~~40 things we were taught in school which are completely false~~

Slow-light effects in ultracold atom clouds known as Bose-Einstein condensates offer rich opportunities ... and slow light in Bose-Einstein condensed atomic gases provides this unique ability.

## ~~Optical information processing in Bose-Einstein condensates~~

Landau-level wave-function. The system is expected to be a testbed for studying the behavior of strongly interacting

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many-body states. Science, aba7202, this issue p. 1318 The equivalence between ...

## ~~Geometric squeezing into the lowest Landau level~~

Physicists have taken a step towards realizing the smallest-ever solid-state laser by generating an exotic quantum state known as a Bose-Einstein condensate (BEC ... of MoSe<sub>2</sub> that were just a single ...

## ~~Exotic quantum state could make smallest ever laser~~

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~~

As this atomic 'Flatland' is cooled to the temperature range at which in three dimensions Bose-Einstein condensation takes place, we see in two dimensions, at first, a 'normal gas' with plenty ...

## ~~Cold gases venture into Flatland~~

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 ...

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

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~~

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~~

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~~

Cornell, “ Experimental studies of equilibrium vortex properties in a Bose-condensed gas, ” Phys. Rev. A 70 ...

“ Using anisotropic compression to melt a vortex lattice in a Bose-Einstein condensate, ” ...

~~Paul Haljan Publications~~

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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His research focuses on ultracold atomic physics and Bose-Einstein condensation. His newest paper has been published in Physical Review A (with undergraduate co-authors Eddie Moan ' 14, Saad Ansari ' 14 ...

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