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Inelastic particle scattering by rotating harmonically ...

The hydrodynamic predictions are supported by the results of numerical simulations based on a finite-temperature c-field approach and extend the utility of the hydrodynamic theory for low-dimensional quantum gases to the description of finite-temperature systems and their dynamics in

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momentum space.

[1901.07083] Finite-temperature properties of interacting ...

Unprecedented developments in experimental design and precision control have led to quantum gases becoming the preferred playground for designer quantum many-body systems. This self-contained volume provides a broad overview of the principal theoretical techniques applied to non-equilibrium and finite temperature quantum gases.

Quantum Gases: Finite Temperature and Non-Equilibrium ...

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We study thermal properties of a trapped Bose-Bose mixture in a dilute regime using quantum Monte Carlo methods. Our main aim is to investigate the dependence of the superfluid density and the condensate fraction on temperature for the mixed and separated phases. To this end we use the diffusion Monte Carlo method in the zero-temperature limit and the path-integral Monte Carlo method for ...

statistical mechanics - What is temperature on a quantum

...

At higher temperature limit, intensity expression in Eqn. looks to Maxwell-Boltzmann

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distribution for ideal quantum gases. The behavior of high-temperature gases excellently describes the Boltzmann's kinetic theory. If the temperature of the gas decreases, its behavior varies dramatically and we need the quantum description.

Properties of dipolar bosonic quantum gases at finite ...

Ultracold quantum gases offer a unique setting for quantum simulation of interacting many-body systems. ... The theoretical understanding of finite-temperature effects is even more difficult and ...

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Phys. Rev. Lett. 125, 065301 (2020) – Radio-Frequency ...

Local atom-number

fluctuations in quantum gases at finite temperature

M. Klawunn, A. Recati, L. P. Pitaevskii, and S. Stringari

Phys. Rev. A 84, 033612 –

Published 13 September 2011

Quantum Gases: Finite Temperature And Non-equilibrium ...

A state at which quantum particles are accelerated temperature is lower than outer space typically -453 degrees Fahrenheit; So associating temperature to a quantum particle can be pretty hopeless unless you

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have a specific reason.

Since a quantum particle like electron and quarks make an atom. It depends on what atom you are talking about about:

Quantum Gases | Cold Atoms

Unprecedented developments in experimental design and precision control have led to quantum gases becoming the preferred playground for designer quantum many-body systems. This self-contained volume provides a broad overview of the principal theoretical approaches applied to non-equilibrium and finite temperature quantum gases.

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**Phys. Rev. A 94, 051602(R)
(2016) - Finite-temperature**

...

We consider an impurity immersed in a Bose-Einstein condensate with tunable

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boson-impurity interactions. Such a Bose polaron has recently been predicted to exhibit an intriguing energy spectrum at finite temperature, where the ground-state quasiparticle evenly splits into two branches as the temperature is increased from zero [Guenther et al., Phys. Rev. Lett. 120, 050405 (2018)]. To ...

Theory of radio-frequency spectroscopy of impurities in ...

In Section 2, we will introduce the finite-temperature HFBP model for trapped dipolar Bose gases with two- and three-body

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interactions. In Section 3 , we look at excitations of homogeneous gas and derive useful analytical expressions for the quantum and thermal fluctuations that depend on the two-body contact interaction, the DDI and the ...

[1910.02620] Fate of the Bose polaron at finite temperature

Unprecedented developments in experimental design and precision control have led to quantum gases becoming the preferred playground for designer quantum many-body systems. This self-contained volume provides a broad overview of the principal

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theoretical techniques applied to non-equilibrium and finite temperature quantum gases.

LENS QuantumGases - Start

The properties of ultracold quantum gases of bosons with dipole-dipole interaction are investigated at finite temperature in the frame of representative ensembles theory.

Local atom-number fluctuations in quantum gases at finite ...

For a careful calculation of $\langle N^2 \rangle$ at zero temperature and in a finite system, we generalize the analysis of Giorgini et al. ([28], see

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also [29, 30]) for Bose gases in a $d = 3$ continuum to ...

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Quantum Gases: Finite Temperature And Non-equilibrium Dynamics - Ebook written by Nick P Proukakis, Simon A Gardiner, Matthew Davis, Marzena Szymanska. Read this book using Google Play Books app on your PC, android, iOS devices. Download for offline reading, highlight, bookmark or take notes while you read Quantum Gases: Finite Temperature And Non-equilibrium Dynamics.

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Trapped Bose-Bose mixtures at finite temperature: A ...

Quasi-one-dimensional lattice systems such as flux ladders with artificial gauge fields host rich quantum-phase diagrams that have attracted great interest. However, so far, most of the work on these systems has concentrated on zero-temperature phases while the corresponding finite-temperature regime remains largely unexplored. The question if and up to which temperature characteristic ...

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Equilibrium ...

Welcome to the website of the Ultracold Quantum Gases group at the European Laboratory for Nonlinear Spectroscopy (LENS), the Department of Physics and Astronomy of the University of Florence (Italy) and the Institute of Optics of the Italian National Research Council (CNR - INO). In our labs we use lasers and magnetic fields to produce the lowest temperatures of the Universe, just a few ...

Quantum simulations with ultracold quantum gases | Nature ...

We present a theory of radio-frequency spectroscopy of

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impurities interacting with a quantum gas at finite temperature. By working in the canonical ensemble of a single impurity, we show that the impurity spectral response is directly connected to the finite-temperature equation of state (free energy) of the impurity. We consider two different response protocols: injection, where the impurity ...

Quantum Gases: Finite Temperature And Non-equilibrium ...

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Quantum dilute droplets of dipolar bosons at finite ...

We investigate the radio-frequency spectroscopy of impurities interacting with a quantum gas at finite temperature. In the limit of a single impurity, we show using Fermi's golden rule

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that introducing (or injecting) an impurity into the medium is equivalent to ejecting an impurity that is initially interacting with the medium, since the ``injection'' and ``ejection'' spectral responses are ...

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