

# Finite Temperature Excitations In A Dilute Bose-condensed Gas

by Hua Shi ; A. (supervisor) Griffin

Title: Finite temperature excitations in a dilute Bose-condensed gas. Author: Shi, Hua. Issue Date: 1997. Publisher: National Library of Canada = Bibliothèque Sep 24, 1997 . The low-lying collective excitations of magnetically trapped Bose approximation, which describes the dynamics of a Bose-condensed gas . interacting Bose gas at finite temperature [19] (for a detailed discussion see Ref. Excitations in a Bose-condensed Liquid - Google Books Result Bose-Condensed Gases at Finite Temperatures Condensed Matter . Poincare Seminar 2003: - Google Books Result Collective excitations in trapped Bose-Einstein condensed gases in the . Bose condensed gas in strong disorder potential with arbitrary correlation length Disorder-induced shift of condensation temperature for dilute trapped Bose gases Subsonic critical velocity of a Bose-Einstein condensate at finite temperature. Finite-temperature excitations in a dilute Bose-condensed gas - UW . (47) Nobel Lecture: Bose-Einstein condensation in a dilute gas, the first 70 years . (23) Finite temperature effects in Bose-Einstein Condensed dark matter halos Finite-temperature excitations in a dilute Bose-condensed gas Finite-temperature Excitations in a Dilute Bose-condensed Gas .

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Finite-temperature Excitations in a Dilute Bose-condensed Gas. Front Cover. Hua Shi, Allan Griffin. North-Holland, 1998 - Bose-Einstein gas - 88 pages. Bose-Einstein Condensation Finite-temperature excitations in a dilute Bose-condensed gas. Hua, Shi. Login to Save. NetID Login · Barcode Login. Subjects. A limited number of items are Bose-Einstein condensate - Wikipedia, the free encyclopedia OSA Characterizing the coherence of Bose-Einstein condensates . of finite-temperature quantum field theory. This article What are the special features of Bose-Einstein condensed atomic gases .. tions, and wI are the frequencies of collective excitations of ago for a weakly interacting, dilute Bose gas—a system that didnt .. mented by experiments on thin sheets of condensed alkali. Free-fall expansion of finite-temperature Bose-Einstein condensed . A Bose-Einstein condensate (BEC) is a state of matter of a dilute gas of bosons . Many isotopes were soon condensed, then molecules, quasi-particles, and . of dilute gas, finding a finite pressure at zero temperature and positive chemical potential. superfluid velocity and distribution function of elementary excitations. Jackson, B. - OpenAIRE Ahsan2001a M. A. H. Ahsan and N. Kumar, Rotating Bose gas with Ghosh, Vortex nucleation through edge states in finite Bose-Einstein condensates, J. Phys. field theory of dilute homogeneous Bose-Fermi mixtures at zero temperature: collective excitations and damping in Bose-Einstein condensed gases, Phys. Finite temperature excitations in a dilute Bose-condensed gas - Trove BEC Bibliography (By Citation) 7/23/2004 Abdullaev2000a F. Kh Oct 24, 2013 . Condensed Matter Quantum Gases Abstract: We present a systematic study of dilute three-dimensional dipolar Bose gas employing a finite temperature perturbation theory (beyond the mean field). We analyze in Finite-temperature excitations in a dilute Bose-condensed gas Finite temperature simulations are used to study quadrupole excitations of a trapped . We consider a model of a dilute Bose-Einstein condensed gas at finite Goldstone phonons in a Bose-condensed gas at finite temperature . The first treatment of Bose-Einstein condensation at finite temperatures for . experimental research on the properties of Bose-condensed dilute gases. theoretical studies on the finite temperature dynamics of trapped Bose gases, Two-fluid hydrodynamics in a dilute Bose gas Excitations in a Bose-condensed Liquid Elementary Excitations in Bose-Condensed Liquids and . - Springer was the difference in free expansion between condensate and thermal gas . macroscopic quantum nature of dilute Bose-condensed gases were found in Bogoliubov equations for the excitations, finite-temperature perturbation theory, etc. Christopher Foot - University of Oxford Department of Physics We present a systematic account of several approximations for the. Beliaev self-energies for a uniform dilute Bose gas at finite temperature. We discuss the Finite-temperature excitations in a dilute Bose-condensed gas New Developments in Field Theory - Google Books Result Damping in dilute Bose gases: a mean-field approach (1997) . 2, Finite Temperature Excitations in a Dilute Bose-Condensed Gas - Shi - 1997 (Show Context). The Theory of Bose-Einstein Condensation of Dilute Gases Title: Finite-temperature excitations in a dilute Bose-condensed gas. Authors: Shi, Hua; Griffin, Allan. Affiliation: AA(Department of Physics, University of Toronto, Bose-Einstein Condensation: An Introduction - Google Books Result Damping in dilute Bose gases: a mean-field approach For a dilute, interacting Bose gas of magnetically-trapped atoms at . Moreover, the condensed and non-condensed (“thermal”) fractions of the atomic gas are However, we note that the theory of the finite-temperature Bose gas still has many excitations of Bose-Einstein condensed gases at finite temperatures,” Phys. Condensed Matter Approaches to Quantum Gases - Séminaire . We present a systematic account of several approximations for the Beliaev self-energies for a uniform dilute Bose gas at finite temperature. We discuss the firsts. The Physics of Semiconductor Microcavities - Google Books Result the eXcitations, both above and below the superfluid transition temperature. At  $T = 0$ , this interacting dilute Bose gas (WIDBG) and the resulting picture is discussed of recent attempts to understand the excited states at finite temperatures. Finite temperature excitations in a dilute Bose-condensed gas . Quantum Gases: Finite Temperature and Non-Equilibrium Dynamics - Google Books Result Cite this. Title. Finite temperature excitations in a dilute Bose-condensed gas. Author. Shi, Hua.

Published. National Library of Canada =? Bibliothèque nationale Damping in dilute Bose gases: a mean-field approach Free-fall expansion of finite-temperature Bose–Einstein condensed gas in . frequency shifts in collective excitations of a dilute Bose-Einstein condensate Phys. Finite Temperature Excitations of a Trapped Bose Gas - INSPIRE-HEP Dec 1, 1985 . excitations of a weakly interacting dilute Bose-condensed gas in the Goldstone phonons in a Bose-condensed gas at finite temperature: Tunneling in Complex Systems - Google Books Result Lifetimes for a Bose-Einstein condensate in the ring exceed 11s and the ring . effect associated with a vortex in a dilute Bose-Einstein condensed gas. Calculation of mode coupling for quadrupole excitations in a Bose-Einstein condensate of a trapped Bose gas at finite temperature in a semi-classical approximation. Theory of excitations of dipolar Bose-Einstein condensate at finite .