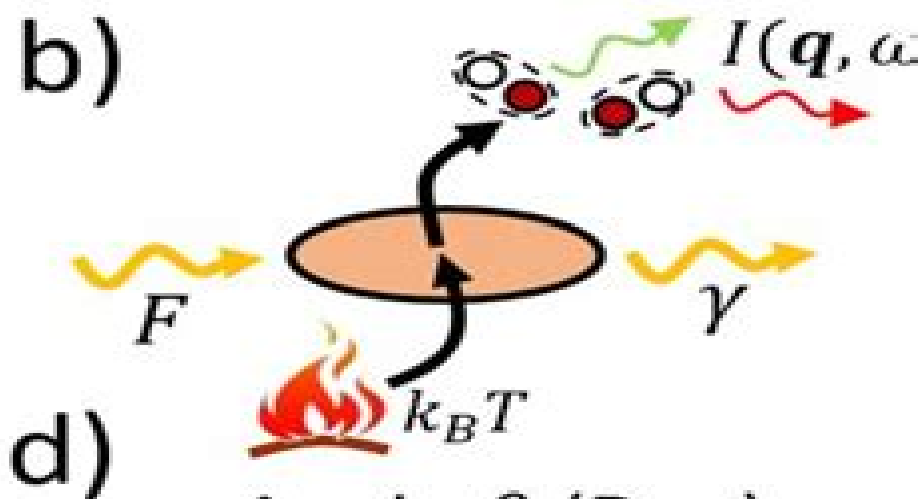
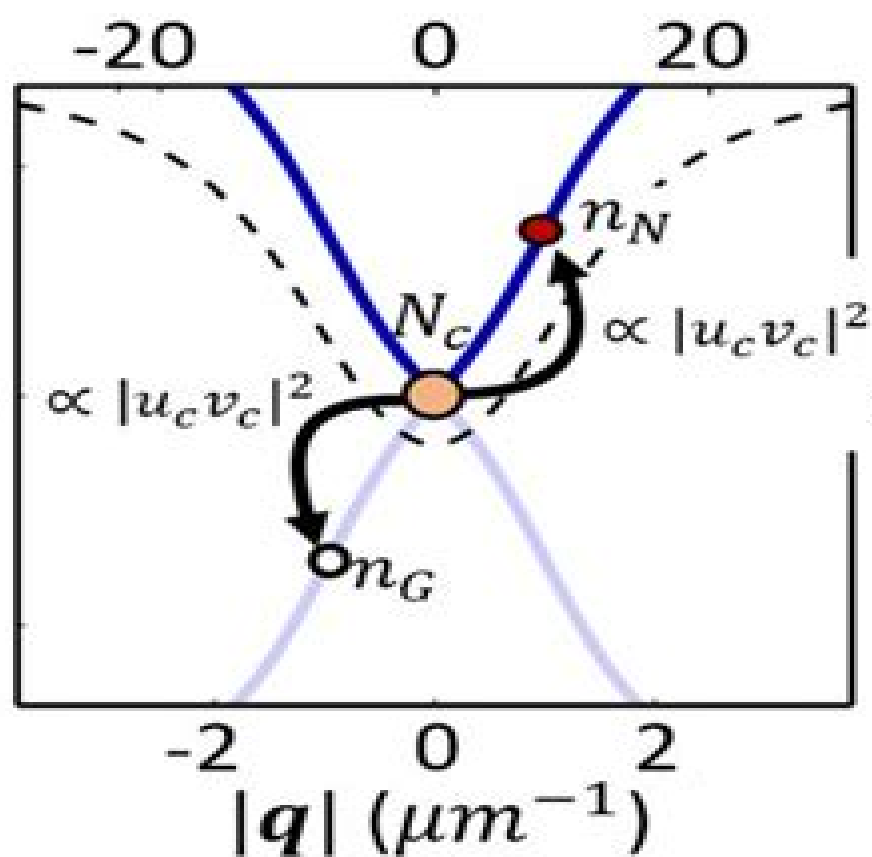
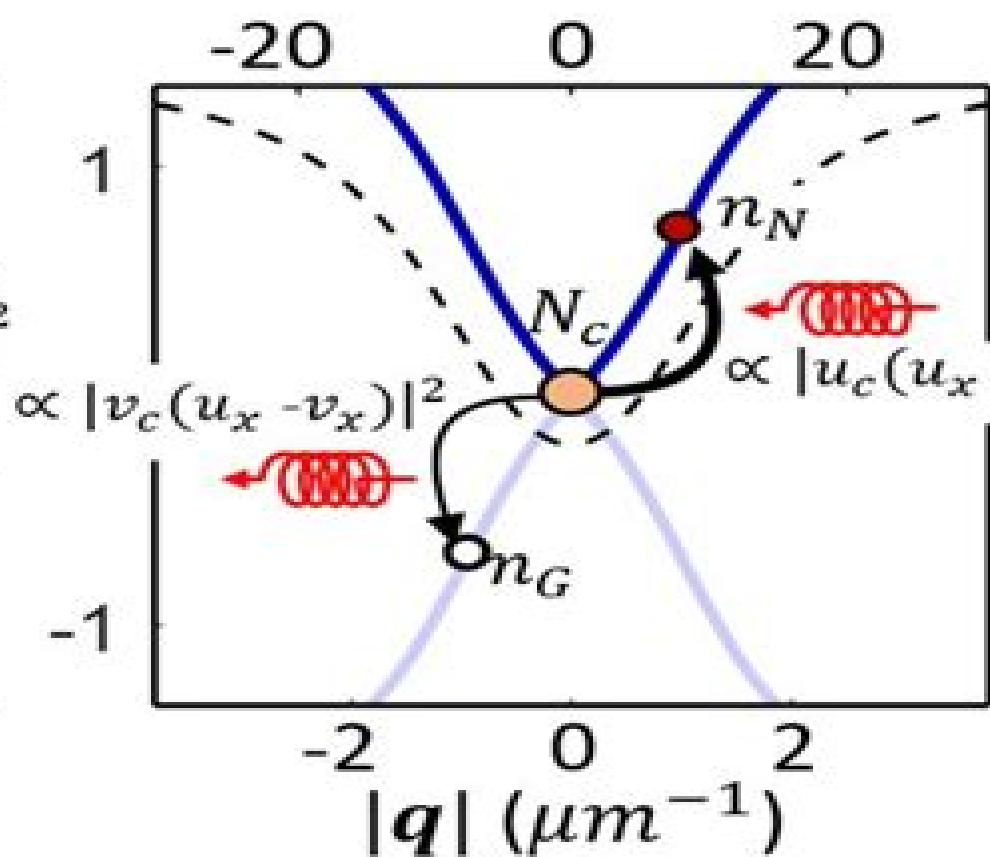


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Elementary Excitations In Quantum Fluids

Brendan G. Carr



Elementary Excitations In Quantum Fluids:

Elementary Excitations in Quantum Fluids Kohji Ohbayashi, Mitsuo Watabe, 1989-04-27 *Elementary Excitations in Quantum Fluids* Kohji Ohbayashi, Mitsuo Watabe, 1989-01-01 This book reviews recent developments in the study of elementary excitations in quantum fluids such as superfluid helium 4. New findings and considerable advances have been achieved in recent years in this area. The book covers such subjects as the theoretical derivation of the dispersion relation of the elementary excitations, neutron inelastic scattering and Raman scattering studies of the dispersion and interactions of the elementary excitations in helium films, ripplon excitations, vortex excitations, quantum evaporation and interactions of ultracold neutrons with elementary excitations. *Excitations in Two-Dimensional and Three-Dimensional Quantum Fluids* A.F.G. Wyatt, H.J. Lauter, 2012-12-06 The study of quantum fluids in three dimensions has been an important area for many years as it embraces Bose-Einstein condensation, superfluidity and macroscopic quantisation. These are fundamental aspects of physics which can be studied in liquid ^4He . In contrast, quantum fluids in two dimensions is more recent and less developed. Nevertheless, it has shown many interesting phenomena including a rich variety of phases and the Kosterlitz-Thouless transition. Intermediate between these dimensions are the restricted geometries of micro-porous materials into which He may be introduced. The main quantum materials considered are ^4He , ^3He , D_2 , H_2 , H and electrons on the surface of ^4He . The superfluid phases of ^3He were excluded except for superfluid film flow as ^3He involves a separate set of problems. These proceedings arise from a lively Advanced Research Workshop on Excitations in Two-Dimensional and Three-Dimensional Quantum Fluids held in Exeter 10-15 August 1990. Fifty scientists took part and each provided a written contribution. Perhaps it is a testimony to the discussions that several papers were revised by the authors after the meeting. The order of the chapters is the same as the presentations at the workshop. This arrangement starts with ^4He in three dimensions which establishes a base from which the two-dimensional properties can be viewed. At the end of each section there is a report on the discussion session. These are interesting and useful chapters as they clarify points made in the papers and define the boundary of current understanding. *Microscopic Approaches to Quantum Liquids in Confined Geometries* Eckhard Krotscheck, Jesús Navarro, 2002 This volume assembles review articles that present the status of frontline research in this field in a manner that makes the material accessible to the educated but non-specialist reader. The articles focus on the many-body aspects of the theory of quantum liquids in confined geometry. Research is in the very satisfactory situation where several accurate approaches are available that allow one to describe these systems in a quantitative manner without modelling uncertainty and uncontrolled assumptions. For example, dynamic situations of direct experimental relevance can be modelled with high accuracy. *An Introduction to Quantum Fluids* Phuong Mai Dinh, Jesús Navarro, Eric Suraud, 2024-12-11 What do atomic nuclei, neutron stars, a domestic power supply and the stunning colors of stained glass in cathedrals all have in common? The answer lies in the unifying concept of quantum fluids which allows us to understand the behavior and

properties of these different systems in simple terms This book reveals how quantum mechanics usually considered as restricted to the invisible microscopic world in fact plays a crucial role at all scales of the universe The purpose of the book is to introduce the reader to the fascinating and multifaceted world of quantum fluids which covers different systems at different scales in the physical world The first part of the book discusses the notion of phases solid liquid gas presents basic aspects of the structure of matter and quantum mechanics and includes some elements of statistical mechanics The second part provides a description of the major quantum liquids starting with the paramount case of electron fluids and their many applications in everyday life followed by liquid helium and atomic nuclei The authors go on to explore matter at very high densities covering nuclear matter and compact stars and the behavior of matter at extremely low temperatures with the fascinating superphases of superconductivity and superfluidity The topic of quantum fluids has multidisciplinary applications and this book will appeal to students and researchers in physics chemistry astrophysics engineering and materials science

Probing Two-Dimensional Quantum Fluids with Cavity Optomechanics Yauhen Sachkou, 2020-07-17 Superfluid helium is a quantum liquid that exhibits a range of counter intuitive phenomena such as frictionless flow Quantized vortices are a particularly important feature of superfluid helium and all superfluids characterized by a circulation that can only take prescribed integer values However the strong interactions between atoms in superfluid helium prohibit quantitative theory of vortex behaviour Experiments have similarly not been able to observe coherent vortex dynamics This thesis resolves this challenge bringing microphotonic techniques to bear on two dimensional superfluid helium observing coherent vortex dynamics for the first time and achieving this on a silicon chip This represents a major scientific contribution as it opens the door not only to providing a better understanding of this esoteric quantum state of matter but also to building new quantum technologies based upon it and to understanding the dynamics of astrophysical superfluids such as those thought to exist in the core of neutron stars

Theory Of Quantum Liquids Philippe Nozieres, 2018-03-05 This volume is devoted to the theory of superfluid quantum liquids describing the Landau theory of a neutral Fermi liquid in order to illustrate in comparatively elementary fashion the way both quantum statistics and particle interaction determine system behavior

Introduction to Modern Methods of Quantum Many-body Theory and Their Applications A. Fabrocini, Stefano Fantoni, Eckhard Krotscheck, 2002 The book contains pedagogical articles on the dominant non stochastic methods of microscopic many body theories Density functional theory coupled cluster theory and correlated basis functions methods in their widest sense Further articles introduce students to applications of these methods in front line research such as Bose Einstein condensates the nuclear many body problem and the dynamics of quantum liquids These keynote articles are supplemented by experimental reviews on intimately connected topics of current relevance The book addresses the striking lack of pedagogical reference literature in the field that allows researchers to acquire the requisite physical insight and technical skills The volume should therefore not only researchers to acquire the requisite physical insight and technical skills The

volume should therefore not only serve as a collection of information relevant to those who attended the school but it provides be useful reference material to a broad range of theoretical physicists in condensed matter and nuclear theory

Superconductivity and Quantum Fluids Zygmunt M. Galasiewicz, 2013-10-22 Superconductivity and Quantum Fluids Volume 29 presents the microscopic theory of superconductivity and superfluidity This book discusses the characteristics of niobium which is a type II superconductor Organized into two parts encompassing eight chapters this volume begins with an overview of the special Bogoliubov transformation that connects fermions with opposite spins and momenta This text then describes the collective oscillations of the system in the cases of charged and uncharged particles Other chapters consider the dynamical system of Fermi particles in a weak external field This book discusses as well the theoretical explanation of superfluidity which is as a second very interesting phenomenon observed at low temperatures The final chapter illustrates the linearized hydrodynamic equations and explains the mean value expressed in terms of the Fourier components of the retarded Green functions This book is a valuable resource for physicists Students and researchers who are interested in the fields of superconductivity and superfluidity will also find this book useful **Physics of Quantum Fluids** Ryōgo

Kubo, Fumihiko Takano, 1971 **The Theory Of Quantum Liquids (volume Ii)** David Pines, Philippe Nozières, 1990-01-21 Originally published as two separate volumes The Theory of Quantum Liquids is a classic text that attempts to describe the qualitative and unifying aspects of an extremely broad and diversified field Theory of Quantum Fluids Eugene Feenberg, 2012-12-02 Theory of Quantum Fluids is a concise report on the microscopic description of liquid ^4He and liquid ^3He in the physical density range using simple forms of the potential function between pairs of neutral atoms and the properties of the ground states and limited ranges of low excited states The monograph covers the properties of the radial distribution function and the three particle distribution particle the classical sound field and the correspondence principle paired phonon states in the free phonon approximation the uniform limit and the charged boson system and the microscopic theory of a single ^3He atom in the ^4He liquid Theoretical and experimental physicists will find the book very interesting

Quantum Liquids J. Ruvalds, 2012-12-02 Quantum Liquids contains lectures presented at the International School of Low Temperature Physics in Erice Italy on June 11 25 1977 The book reviews developments in the study of superfluid phases of the ^3He system and in the understanding of quasiparticles and their interactions in the Bose ^4He system along with recent work on the ^3He ^4He mixtures Comprised of 10 chapters this volume begins with an overview of the renormalization group theory critical phenomena and phase transition in superfluid helium It then discusses the superfluid density and the nature of critical singularities the theory and practice of neutron scattering and scattering from weakly interacting quantum liquids The reader is also introduced to the superfluidity of liquid helium films light scattering from superfluid helium and the theory of superfluid ^3He Other chapters focus on superfluid flow in helium 4 compared to that in helium 3 the physical properties of small droplets of helium as analogs of heavy nuclei and experimental properties of superfluid ^3He ^4He

mixtures bound excitations in liquid He4 and temperature dependence of the single roton energy and lifetime are also discussed Physicists and students of physics will find this book extremely useful *ERDA Energy Research Abstracts* ,1983

Topics In Theoretical Physics - Proceedings Of The Second Pacific Winter For Theoretical Physics Yongmin Cho,1997-04-01 Recently exciting new notions have been emerging in theoretical physics The quantum nature of gravitation revealed in the physics of black holes exotic excitations obeying fractional statistics and integrable structure such as Yangian symmetry in low dimensional models are some of the subjects presented in this volume The spectrum of the talks at the School reflected in the proceedings is a wide one ranging from the phenomenology of particle physics to that of condensed matter physics to topics of a mathematical nature This is an indication that there is a robust interplay of ideas from diverse disciplines of theoretical physics in the Asia Pacific region

Equilibrium and Non-equilibrium Statistical Mechanics Carolyn M. Van Vliet,2008 This book encompasses our current understanding of the ensemble approach to many body physics phase transitions and other thermal phenomena as well as the quantum foundations of linear response theory kinetic equations and stochastic processes It is destined to be a standard text for graduate students but it will also serve the specialist researcher in this fascinating field some more elementary topics have been included in order to make the book self contained The historical methods of J Willard Gibbs and Ludwig Boltzmann applied to the quantum description rather than phase space are featured The tools for computations in the microcanonical canonical and grand canonical ensembles are carefully developed and then applied to a variety of classical and standard quantum situations After the language of second quantization has been introduced strongly interacting systems such as quantum liquids superfluids and superconductivity are treated in detail For the connoisseur there is a section on diagrammatic methods and applications In the second part dealing with non equilibrium processes the emphasis is on the quantum foundations of Markovian behaviour and irreversibility via the Pauli Van Hove master equation Justifiable linear response expressions and the quantum Boltzmann approach are discussed and applied to various condensed matter problems From this basis the Onsager Casimir relations are derived together with the mesoscopic master equation the Langevin equation and the Fokker Planck truncation procedure Brownian motion and modern stochastic problems such as fluctuations in optical signals and radiation fields briefly make the round

Perspectives in Theoretical Physics J. B. Sykes,D. ter Haar,2012-12-02 Evgenii Mikhailovich Lifshitz is perhaps best known for his long association with his mentor Lev D Landau with whom he co wrote the classic Course of Theoretical Physics but he was a noted and respected Soviet physicist in his own right Born in the Ukraine to a scientific family his long and distinguished career will be remembered for three things his collaboration with Landau on the internationally acclaimed Course of Theoretical Physics his work as editor of the Journal of Experimental and Theoretical Physics and his scientific papers As well as his work with Landau E M Lifshitz collaborated with many noted Soviet scientists such as I M Khalatnikov I E Dyzaloshinskii V V Sudakov V A Belinskii and the editor of this book L P Pitaevskii Many of the papers presented in this

book include their contribution Collected together they give a comprehensive and penetrating insight into the man and his work clearly showing Lifshitz's contribution to physics and the influences on his work **Energy Research Abstracts**
,1987 *LT 21: Quantum fluids and solids* ,1996 *Statistical Physics* Michael V. Sadovskii,2012-08-31 This book is essentially based on the lecture course on Statistical Physics which was taught by the author at the physical faculty of the Ural State University in Ekaterinburg since 1992 This course was intended for all physics students not especially for those specializing in theoretical physics In this sense the material presented here contains the necessary minimum of knowledge of statistical physics also often called statistical mechanics which is in author's opinion necessary for every person wishing to obtain a general education in the field of physics This posed the rather difficult problem of the choice of material and compact enough presentation At the same time it necessarily should contain all the basic principles of statistical physics as well as its main applications to different physical problems mainly from the field of the theory of condensed matter Extended version of these lectures were published in Russian in 2003 For the present English edition some of the material was rewritten and several new sections and paragraphs were added bringing contents more up to date and adding more discussion on some more difficult cases

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