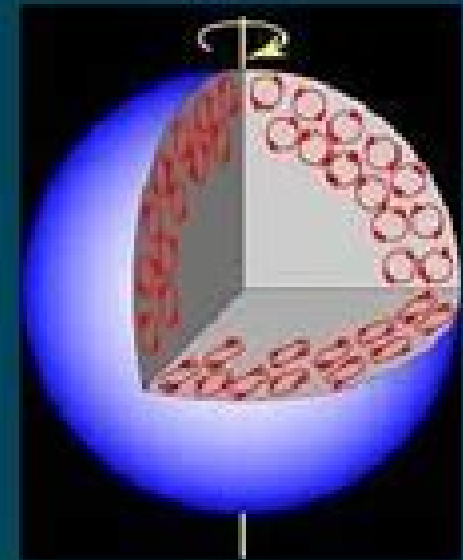


Superfluid hydrodynamics

Assume that:

- Electrons/muons in the core are coupled to the protons on very short timescales.
- Vortices and fluxtubes are sufficiently dense that a smooth-averaging can be performed.

The system is reduced to a **two-fluid model**.



One fluid is the superfluid neutrons in the inner crust and core, and the other fluid is a conglomerate of all charged constituents.

The equations of motion can be derived from a variational principle, and are analogous to the Landau model for superfluid Helium.

Superfluid Hydrodynamics

**Daniele Faccio, Francesco
Belgiorno, Sergio Cacciatori, Vittorio
Gorini, Stefano Liberati, Ugo Moschella**

Superfluid Hydrodynamics:

Superfluid Hydrodynamics Seth J. Putterman, 1974 **Modern trends in Superconductivity and Superfluidity** M. Yu. Kagan, 2013-12-11 This book concisely presents the latest trends in the physics of superconductivity and superfluidity and magnetism in novel systems as well as the problem of BCS BEC crossover in ultracold quantum gases and high T_c superconductors It further illuminates the intensive exchange of ideas between these closely related fields of condensed matter physics over the last 30 years of their dynamic development The content is based on the author's original findings obtained at the Kapitza Institute as well as advanced lecture courses he held at the Moscow Engineering Physical Institute Amsterdam University Loughborough University and LPTMS Orsay between 1994 and 2011 In addition to the findings of his group the author discusses the most recent concepts in these fields obtained both in Russia and in the West The book consists of 16 chapters which are divided into four parts The first part describes recent developments in superfluid hydrodynamics of quantum fluids and solids including the fashionable subject of possible supersolidity in quantum crystals of ^4He while the second describes BCS BEC crossover in quantum Fermi Bose gases and mixtures as well as in the underdoped states of cuprates The third part is devoted to non phonon mechanisms of superconductivity in unconventional anomalous superconductors including some important aspects of the theory of high T_c superconductivity The last part considers the anomalous normal state of novel superconductive materials and materials with colossal magnetoresistance CMR The book offers a valuable guide for senior level undergraduate students and graduate students postdoctoral and other researchers specializing in solid state and low temperature physics **An Introduction To The Theory Of Superfluidity** Isaac M. Khalatnikov, 2018-03-05 This book covers main properties of the excitation spectrum in superfluid ^4He and the thermodynamics determined by the spectrum It deals with hydrodynamics and describes that quantitative results should be insignificantly modified with processes of phonon decay taken into account **Superfluid States of Matter** Boris V. Svistunov, Egor S. Babaev, Nikolay V. Prokof'ev, 2015-04-15 Covers the State of the Art in Superfluidity and Superconductivity Superfluid States of Matter addresses the phenomenon of superfluidity superconductivity through an emergent topologically protected constant of motion and covers topics developed over the past 20 years The approach is based on the idea of separating universal classical field superfluid *Non-equilibrium Thermodynamics of Superfluid Helium and Quantum Turbulence* Maria Stella Mongiovì, David Jou, Michele Sciacca, 2025-07-23 This book puts together non equilibrium thermodynamics heat transport properties of superfluid He II and thermodynamic and dynamic aspects of quantum turbulence A one fluid extended model of superfluid helium with heat flux as an additional independent variable is presented and compared with the two fluid model to explore how both models complement each other Important features arise in rotating situations and in superfluid turbulence characterized by quantized vortices leading to strong nonlinearities between heat flux and temperature gradient The dynamics of vortex lines and their interaction with heat dynamics a central

topic in superfluid turbulence is dealt with by introducing the vortex line density as an independent variable and writing its dynamical equations considering the transitions from laminar to turbulent flows and from diffusive to ballistic regimes. Classical and quantum turbulence are compared from a mesoscopic view and from their energy spectra. The work also explores some parallelisms of quantum vortex thermodynamics with cosmic string thermodynamics and black hole thermodynamics exhibiting duality connections amongst them. It emphasizes didactical views over specialistic details and may be used as an introduction to nonequilibrium thermodynamics of superfluid helium and its heat transport properties, second sound, nonlocal transport, nonlinear connections with quantum turbulence. The book is useful to researchers in superfluid helium in heat transport and in thermodynamics of cosmic strings and black holes. The diversity and complexity of its several physical equations will be inspiring for researchers in mathematical physics. SUPERFLUID HYDRODYNAMICS (Volume 3). S.J. PUTTERMAN, 1974

Novel Superfluids K. H. Bennemann, John B. Ketterson, 2013-02-28 This book reports on the latest developments in the field of Superfluidity, one of the most fundamental, interesting and important problems in physics with applications ranging from metals, helium, liquids, photons in cavities, excitons in semiconductors to the interior of neutron stars and the present state of the Universe as a whole.

Physics of Neutron Star Interiors D. Blaschke, N.K. Glendenning, A. Sedrakian, 2008-01-11 Neutron stars are the densest observable bodies in our universe. Born during the gravitational collapse of luminous stars, a birth heralded by spectacular supernova explosions, they open a window on a world where the state of the matter and the strengths of the fields are anything but ordinary. This book is a collection of pedagogical lectures on the theory of neutron stars and especially their interiors at the forefront of current research. It addresses graduate students and researchers alike and should be particularly suitable as a text bridging the gap between standard textbook material and the research literature. Nuclear Science Abstracts, 1975

The Vortex State N. Bontemps, Yvan Bruynseraede, Guy Deutscher, Aharon Kapitulnik, 2012-12-06 One of the most spectacular consequences of the description of the superfluid condensate in superfluid He or in superconductors as a single macroscopic quantum state is the quantization of circulation, resulting in quantized vortex lines. This book draws no distinction between superfluid He-3 and He-4 and superconductors. The reader will find the essential introductory chapters and the most recent theoretical and experimental progress in our understanding of the vortex state in both superconductors and superfluids from lectures given by leading experts in the field, both experimentalists and theoreticians who gathered in Cargèse for a NATO ASI. The peculiar features related to short coherence lengths, 2D geometry, high temperatures, disorder and pinning are thoroughly discussed.

Vortices in Unconventional Superconductors and Superfluids R.P. Huebener, N. Schopohl, G.E. Volovik, 2013-03-09 The physics of vortices in classical fluids has been a highly important subject for many years, both in fundamental science and in engineering applications. About 50 years ago, vortices started to become prominent as quantum mechanical objects constructed from a macroscopic wavefunction. Here the key developments are associated with the names R. Feynman, L.

Onsager L D Landau F London V L Ginzburg and A A Abrikosov Recently the physics of vortices has undergone a further important step of diversification namely in unconventional superconductors and superfluids which are characterized by an anisotropic and or spatially complex order parameter It is this latest evolutionary step of vortex physics that is addressed in this book The individual chapters are concerned with the microscopic structure and dynamics of vortices in diverse systems ranging from superfluids and superconductors to neutron stars Each of the 20 chapters is written by one or more experts on the particular subject Each chapter provides an introduction and overview emphasizing theoretical as well as experimental work and includes references to both recent and pioneering earlier developments In this way non expert readers will also benefit from these lecture notes Hence the book will be useful for all researchers and graduate students interested in the physics of vortices in unconventional superconductors and superfluids It may also serve as supplementary material for a graduate course on low temperature solid state physics Quantum and Classical Statistical Mechanics N. N.

Bogolubov, 1995-09-22 **Proceedings Of The Conference In Honour Of The 90th Birthday Of Freeman Dyson** Kok Khoo Phua, Phil Aik Hui Chan, Ngee-pong Chang, Leong-chuan Kwek, 2014-04-22 Professor Freeman Dyson a great physicist thinker and futurist has been very active in scientific literary and public policy activities throughout his career As a tribute to him on the occasion of his 90th birthday and to celebrate his lifelong contributions in physics mathematics astronomy nuclear engineering and global warming a conference covering a wide range of topics was held in Singapore from 26 to 29 August 2013 Distinguished scientists from around the world including Nobel Laureate Professor David Gross joined Professor Dyson in the celebration with a festival of lectures This memorable volume collects an interesting lecture by Professor Dyson Is a Graviton Detectable contributions by speakers at the conference as well as guest contributions by colleagues who celebrated Dyson's birthday at Rutgers University and Institute for Advanced Study in Princeton About Freeman Dyson Freeman John Dyson FRS born December 15 1923 is an eminent English born American physicist mathematician and futurist He is famous for his work in quantum electrodynamics solid state physics mathematics astronomy and nuclear engineering as well as a renowned and best selling author He has spent most of his life as a professor of physics at the Institute for Advanced Study in Princeton taking time off to advise the US government and write books for the public He has won numerous notable awards including the Enrico Fermi Award Templeton Prize Wolf Prize Pomeranchuk Prize and Henri Poincaré Prize **Analogue**

Gravity Phenomenology Daniele Faccio, Francesco Belgiorno, Sergio Cacciatori, Vittorio Gorini, Stefano Liberati, Ugo Moschella, 2013-08-13 Analogue Gravity Phenomenology is a collection of contributions that cover a vast range of areas in physics ranging from surface wave propagation in fluids to nonlinear optics The underlying common aspect of all these topics and hence the main focus and perspective from which they are explained here is the attempt to develop analogue models for gravitational systems The original and main motivation of the field is the verification and study of Hawking radiation from a horizon the enabling feature is the possibility to generate horizons in the laboratory with a wide range of physical systems

that involve a flow of one kind or another The years around 2010 and onwards witnessed a sudden surge of experimental activity in this expanding field of research However building an expertise in analogue gravity requires the researcher to be equipped with a rather broad range of knowledge and interests The aim of this book is to bring the reader up to date with the latest developments and provide the basic background required in order to appreciate the goals difficulties and success stories in the field of analogue gravity Each chapter of the book treats a different topic explained in detail by the major experts for each specific discipline The first chapters give an overview of black hole spacetimes and Hawking radiation before moving on to describe the large variety of analogue spacetimes that have been proposed and are currently under investigation This introductory part is then followed by an in depth description of what are currently the three most promising analogue spacetime settings namely surface waves in flowing fluids acoustic oscillations in Bose Einstein condensates and electromagnetic waves in nonlinear optics Both theory and experimental endeavours are explained in detail The final chapters refer to other aspects of analogue gravity beyond the study of Hawking radiation such as Lorentz invariance violations and Brownian motion in curved spacetimes before concluding with a return to the origins of the field and a description of the available observational evidence for horizons in astrophysical black holes

[Black Holes in Higher Dimensions](#) Gary T. Horowitz, 2012-04-19 The first book devoted to black holes in more than four dimensions for graduate students and researchers

[Current Topics In Physics - Proceedings Of The Inauguration Conference Of The Asia-Pacific Center For Theoretical Physics \(In 2 Volumes\)](#) Yongmin Cho, Chen Ning Yang, J B Hong, 1998-04-04 This volume is a collection of lectures on the current topics in various areas of physics which were presented at the Inauguration Conference of Asia Pacific Center for Theoretical Physics

Superfluidity and Superconductivity D.R. Tilley, J Tilley, 1990-01-01 Superfluidity and Superconductivity Third Edition introduces the low temperature phenomena of superfluidity and superconductivity from a unified viewpoint The book stresses the existence of a macroscopic wave function as a central principle presents an extensive discussion of macroscopic theories and includes full descriptions of relevant experimental results throughout This edition also features an additional chapter on high temperature superconductors With problems at the end of most chapters as well as the careful elaboration of basic principles this comprehensive survey of experiment and theory provides an accessible and invaluable foundation for graduate students studying low temperature physics as well as senior undergraduates taking specialized courses

Superdense QCD Matter and Compact Stars David Blaschke, David Sedrakian, 2006-01-14

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Understanding Bose-Einstein Condensation, Superfluidity, and High-Temperature Superconductivity Phil Attard, 2025-01-02 Bose Einstein condensation superfluidity and superconductivity are quantum mechanics made visible They mark the boundary between the classical and the quantum worlds and they show the macroscopic role of quantum mechanics in condensed matter This book presents these phenomena in terms of particles their positions and their momenta giving a concrete visualisation and description that is not possible with traditional wave functions A single approach that bridges the classical quantum divide provides new insight into the role of particle interactions in condensation the nature of collisions in superfluid flow and the physical form of Cooper pairs in high temperature superconductors High temperature superconductivity is explored with quantum statistical mechanics which links it to Bose Einstein condensation Identifying a new mechanism for Cooper pairing this explains the differences between the low and high temperature superconducting regimes and the role of the molecular structure of the conductor The new perspective offered by this book on Bose Einstein condensation superfluidity and high temperature superconductivity gives particle based explanations as well as mathematical and computational methods for these macroscopic quantum phenomena so that readers understand the role of particle interactions and structure in the physics of these phenomena This book will appeal to undergraduate and graduate students lecturers academics and scientific researchers in the fields of Bose Einstein condensation and condensates superfluidity and superconductivity It will also be of interest to those working with thermodynamics statistical mechanics statistical physics quantum mechanics molecular dynamics materials science condensed matter physics and theoretical chemistry

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