

Nuclear Superfluidity

Pairing in Finite Systems

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CAMBRIDGE MONOGRAPHS
ON PARTICLE PHYSICS, NUCLEAR PHYSICS
AND COSMOLOGY

Nuclear Superfluidity Pairing In Finite Systems

G. Pisent



Nuclear Superfluidity Pairing In Finite Systems:

Nuclear Superfluidity David M. Brink, Ricardo A. Broglia, 2023-07-27 An advanced text devoted exclusively to pair correlations in nuclei Fifty Years Of Nuclear Bcs: Pairing In Finite Systems Ricardo Americo Broglia, Vladimir Zelevinsky, 2013-01-18 This unique volume reviews more than fifty years of theoretical and experimental developments of the concept that properties of atomic nuclei up to a great extent are defined by the pair correlations of nuclear constituents protons and neutrons Such correlations in condensed matter are responsible for quantum phenomena on a macroscopic level superfluidity and superconductivity After introducing Bardeen Cooper Schrieffer BCS theory of superconductivity of metals it became clear that atomic nuclei have properties of superfluid drops and practically all features of nuclei strongly depend on the pair correlations Presenting a comprehensive overview of the progress of nuclear science the contributions from leading physicists around the world cover the whole spectrum of studies in nuclear physics and physics of other small systems With the most updated information written in an accessible way the volume will serve as an irreplaceable source of references covering many years of development and insight into several new problems at the frontiers of science It will be useful not only for physicists working in nuclear and condensed matter physics astrophysicists chemists and historians of science but will also help students understand the current status and perspectives for the future Handbook of Nuclear Physics Isao Tanihata, Hiroshi Toki, Toshitaka Kajino, 2023-09-04 This handbook is a comprehensive systematic source of modern nuclear physics It aims to summarize experimental and theoretical discoveries and an understanding of unstable nuclei and their exotic structures which were opened up by the development of radioactive ion RI beam in the late 1980s The handbook comprises three major parts In the first part the experiments and measured facts are well organized and reviewed The second part summarizes recognized theories to explain the experimental facts introduced in the first part Reflecting recent synergistic progress involving both experiment and theory the chapters both parts are mutually related The last part focuses on cosmo nuclear physics one of the mainstream subjects in modern nuclear physics Those comprehensive topics are presented concisely Supported by introductory reviews all chapters are designed to present their topics in a manner accessible to readers at the graduate level The book therefore serves as a valuable source for beginners as well helping them to learn modern nuclear physics Solid State Physics of Finite Systems R.A. Broglia, G. Coló, G. Onida, H.E. Roman, 2013-03-09 Quantum mechanics is the set of laws of physics which to the best of our knowledge provides a complete account of the microworld One of its chapters quantum electrodynamics QED is able to account for the quantal phenomena of relevance to daily life electricity light liquids and solids etc with great accuracy The language of QED field theory has proved to be universal providing the theoretical basis to describe the behaviour of many body systems In particular finite many body systems FMBS like atomic nuclei metal clusters fullerenes atomic wires etc That is systems made out of a small number of components The properties of FMBS are expected to be quite different from those of bulk matter being strongly

conditioned by quantal size effects and by the dynamical properties of the surface of these systems The study of the electronic and of the collective behaviour plasmons and phonons of FMBS and of their interweaving making use of well established first principle quantum field theoretical techniques is the main subject of the present monograph The interest for the study of FMBS was clearly stated by Feynman in his address to the American Physical Society with the title There is plenty of room at the bottom On this occasion he said among other things When we get to the very very small world say circuits of seven atoms we have a lot of new things that would happen that represent completely new opportunities for design

1 Fundamentals of Nuclear Models David J. Rowe, John L. Wood, 2010 This book reviews the basic models and theories of nuclear structure and gives an in depth analysis of their experimental and mathematical foundations It shows the relationships between the models and exhibits the value of following the strategy of looking for patterns in all the data available developing phenomenological models to explain them and finally giving the models a foundation in a fundamental microscopic theory of interacting neutrons and protons This unique book takes a newcomer from an introduction to nuclear structure physics to the frontiers of the subject along a painless path It provides both the experimental and mathematical foundations of the essential models in a way that is accessible to a broad range of experimental and theoretical physicists Thus the book provides a unique resource and an exposition of the essential principles mathematical structures assumptions and observational data on which the models and theories are based It avoids discussion of many non essential variations and technical details of the models

Novel Superfluids Karl-Heinz Bennemann, John B. Ketterson, 2014-11-27 Volume 2 of Novel Superfluids continues the presentation of recent results on superfluids including novel metallic systems superfluid liquids and atomic molecular gases of bosons and fermions particularly when trapped in optical lattices Since the discovery of superconductivity Leyden 1911 superfluid 4He Moscow and Cambridge 1937 superfluid 3He Cornell 1972 and observation of Bose Einstein Condensation BEC of a gas Colorado and MIT 1995 the phenomenon of superfluidity has remained one of the most important topics in physics Again and again novel superfluids yield surprising and interesting behaviors The many classes of metallic superconductors including the high temperature perovskite based oxides MgB₂ organic systems and Fe based pnictides continue to offer challenges The technical applications grow steadily What the temperature and field limits are remains illusive Atomic nuclei neutron stars and the Universe itself all involve various aspects of superfluidity and the lessons learned have had a broad impact on physics as a whole

Fundamentals of Nuclear Physics Noboru Takigawa, Kouhei Washiyama, 2017-01-12 This book introduces the current understanding of the fundamentals of nuclear physics by referring to key experimental data and by providing a theoretical understanding of principal nuclear properties It primarily covers the structure of nuclei at low excitation in detail It also examines nuclear forces and decay properties In addition to fundamentals the book treats several new research areas such as non relativistic as well as relativistic Hartree Fock calculations the synthesis of super heavy elements the quantum chromodynamics phase diagram and nucleosynthesis in

stars to convey to readers the flavor of current research frontiers in nuclear physics The authors explain semi classical arguments and derivation of its formulae In these ways an intuitive understanding of complex nuclear phenomena is provided The book is aimed at graduate school students as well as junior and senior undergraduate students and postdoctoral fellows It is also useful for researchers to update their knowledge of diverse fields of nuclear structure The book explains how basic physics such as quantum mechanics and statistical physics as well as basic physical mathematics is used to describe nuclear phenomena A number of questions are given from place to place as supplements to the text

Collective Motion and Phase Transitions in Nuclear Systems A. A. Raduta, 2007 This volume contains the invited contributions that were presented at the Predeal International Summer School in Nuclear Physics 2006 It covers the recent achievements in the fields of nuclear structure double beta decay nuclear multifragmentation kaon and dilepton production in heavy ion collisions and the quarkOgluon plasma The treatment is both theoretical and experimental with emphasis on the collective aspects and related phase transitions The papers are authored by many leading researchers in the field

An Introduction to Nuclear Fission Walid Younes, Walter D. Loveland, 2021-11-15 This hands on textbook introduces physics and nuclear engineering students to the experimental and theoretical aspects of fission physics for research and applications through worked examples and problem sets The study of nuclear fission is currently undergoing a renaissance Recent advances in the field create the opportunity to develop more reliable models of fission predictability and to supply measurements and data to critical applications including nuclear energy national security and counter proliferation and medical isotope production An Introduction to Nuclear Fission provides foundational knowledge for the next generation of researchers to contribute to nuclear fission physics

The Physics and Astrophysics of Neutron Stars Luciano Rezzolla, Pierre Pizzochero, David Ian Jones, Nanda Rea, Isaac Vidaña, 2019-01-09 This book summarizes the recent progress in the physics and astrophysics of neutron stars and most importantly it identifies and develops effective strategies to explore both theoretically and observationally the many remaining open questions in the field Because of its significance in the solution of many fundamental questions in nuclear physics astrophysics and gravitational physics the study of neutron stars has seen enormous progress over the last years and has been very successful in improving our understanding in these fascinating compact objects The book addresses a wide spectrum of readers from students to senior researchers Thirteen chapters written by internationally renowned experts offer a thorough overview of the various facets of this interdisciplinary science from neutron star formation in supernovae pulsars equations of state super dense matter gravitational wave emission to alternative theories of gravity The book was initiated by the European Cooperation in Science and Technology COST Action MP1304 Exploring fundamental physics with compact stars NewCompStar

Theoretical Nuclear Physics in Italy G. Pisent, 2001 The Cortona Conference is a biennial meeting of all Italian groups from about 20 universities who are active in theoretical nuclear physics This volume presents the main achievements and perspectives of Italian theoretical nuclear

physics with particular reference to the last two years The first part contains the invited talks on 1 Nuclear structure 2 Light nuclei physics 3 Hadronic degrees of freedom 4 Nuclear physics with electroweak probes 5 Nuclear dynamics and nuclear matter and 6 First results about the AICE experiment Furthermore it includes two longer communications on 7 Nuclear physics with exotic beams and 8 Solution of the folding problem in protein models The second part contains contributed papers

Theoretical Nuclear Physics In Italy, Procs Of The 8th Conf On Problems In Theoretical Nuclear Physics Sigfrido Boffi, L Canton, Aldo Covello, Adelchi Fabrocini, Gualtiero Pisent, Sergio Rosati, 2001-06-15 The Cortona Conference is a biennial meeting of all Italian groups from about 20 universities who are active in theoretical nuclear physics This volume presents the main achievements and perspectives of Italian theoretical nuclear physics with particular reference to the last two years The first part contains the invited talks on 1 Nuclear structure 2 Light nuclei physics 3 Hadronic degrees of freedom 4 Nuclear physics with electroweak probes 5 Nuclear dynamics and nuclear matter and 6 First results about the AICE experiment Furthermore it includes two longer communications on 7 Nuclear physics with exotic beams and 8 Solution of the folding problem in protein models The second part contains contributed papers

La Rivista del Nuovo cimento Società italiana di fisica, 2005 *Nuclear Methods and the Nuclear Equation of State* Marcello Baldo, 1999 The theoretical study of the nuclear equation of state EOS is a field of research which deals with most of the fundamental problems of nuclear physics This book gives an overview of the present status of the microscopic theory of the nuclear EOS Its aim is essentially twofold first to serve as a textbook for students entering the field by covering the different subjects as exhaustively and didactically as possible second to be a reference book for all researchers active in the theory of nuclear matter by providing a report on the latest developments Special emphasis is given to the numerous open problems existing at present and the prospects for their possible solutions The general framework of the different approaches presented in the book is the meson theory of nuclear forces where no free parameter is introduced and the many body treatment of nucleon nucleon correlations The ultimate hope of this world wide effort is the understanding of the structure of nuclear matter both in the ground state and at finite temperature The main audience addressed is the community of theoretical nuclear physicists but nuclear experimentalists and astrophysicists will also find in the book an extensive amount of material of direct interest for their everyday work particularly for those studying heavy ion collisions where the nuclear EOS is of special relevance Finally theoretical physicists working on elementary particle theory could find in the book some stimulating ideas and problems directly related to their field

Nuclear Physics with Stable and Radioactive Ion Beams F. Gramegna, P. Van Duppen, A. Vitturi, 2019-05-13 The field of radioactive ion beam research has evolved over the last three decades and several sizeable facilities are currently undergoing a major upgrade or are under construction In Europe these include ISOLDE CERN Switzerland SPIRAL2 GANIL France FAIR GSI Germany and SPES Italy while RIBF RIKEN Japan TRIUMF Canada and FRIB MSU USA are the major undertakings elsewhere These will create unprecedented opportunities to extend our

knowledge in as yet unexplored regions of the nuclear chart and address key questions in nuclear physics fundamental interactions and astrophysics as well as linking to other fields of science including life science This book presents material from the 201st International School of Physics Enrico Fermi entitled Nuclear Physics with Stable and Radioactive Ion Beams and held in Varenna Italy from 14-19 July 2017 The lectures and seminars of this school focused on structural and dynamic aspects from both a theoretical and experimental point of view and among the recent advances discussed in the 14 full length contributions included here are advanced shell model density functional applications and symmetry based methods as well as cluster and reaction models A dedicated session was organized to mark the 90th birthday of Professor R A Ricci and focused on his pioneering work in nuclear structure He was in particular one of the founders of heavy ion induced reaction studies devoted to deepening knowledge of nuclear structure and dynamics The International School of Physics Enrico Fermi has a worldwide reputation and the book will be of interest to all those working in the field

Emergent Phenomena In Atomic Nuclei From Large-scale Modeling: A Symmetry-guided Perspective Kristina D Launey, 2017-07-05 This book is a unique collection of reviews that share a common topic emergent phenomena in atomic nuclei while revealing the multifaceted nature of the subject from quarks to heavy nuclei It tells an amazing story of a decades long journey of trials and successes up to present days with the aim to understand the vast array of experimental data and the fundamentals of strongly interacting fermions The emphasis is on discovering emergent orderly patterns amidst the overarching complexity of many particle quantum mechanical systems Recent findings are discussed within an interesting framework a combination of nuclear theory and experiment of group theory and computational science and of pivotal models of astonishing simplicity and state of the art models empowered by supercomputers A special theme resonates throughout the book the important role of symmetries exact and approximate in exposing emergent features and guiding large scale nuclear modeling World renowned experts offer their unique perspective on symmetries in the world of quarks and gluons and that of protons and neutrons from chiral symmetry through spin isospin and quasi spin symmetries to symplectic symmetry as well as on the emergent nature of nuclear collectivity clustering and pairing viewed from spectroscopy microscopic considerations and first principles The book provides an excellent foundation that allows researchers and graduate students in physics and applied mathematics to review the current status of the subject and to further explore the research literature through exhaustive sets of references that also point to studies underpinned by similar techniques in condensed matter and atomic physics along with quantum information

Pairing in Fermionic Systems Armen Sedrakian, John Walter Clark, Mark Gower Alford, 2006 Cooper pairing of fermions is a profound phenomenon that has become very important in many different areas of physics in the recent past This book brings together for the first time experts from various fields involving Cooper pairing at the level of BCS theory and beyond including the study of novel states of matter such as ultracold atomic gases nuclear systems at the extreme and quark matter with application to neutron stars Cross disciplinary in nature the book will be of interest to

physicists in many different specialties including condensed matter nuclear high energy and astrophysics The emphasis is on novel issues beyond ordinary BCS theory such as pairing in asymmetric systems the polarization effect and higher spin pairing These topics are rarely treated at the textbook level and all of them are the subjects of intensive ongoing research The book also considers various new techniques widely used in current research that differ significantly from the conventional condensed matter approaches described in the standard literature

Physics of Unstable Nuclei Dao Tien Khoa, 2008 This volume features contributions by the leading authorities on the physics of unstable nuclei It provides an important updated source in the nuclear physics literature for the researchers and post graduates studying nuclear physics with unstable beams around the world The focus is on the new experimental facilities for the production of unstable beams and on the latest developments in microscopic theories of nuclear structure and reactions

Sample Chapter s Chapter 1 STUDIES at the RIKEN RI BEAM FACTORY 625 KB Contents Studies at the RIKEN RI Beam Factory T Motobayashi Dilute Nuclear States M Freer The ICHOR Project and Spin Isospin Physics with Unstable Beams H Sakai Nuclear Reactions with Weakly Bound Systems The Treatment of the Continuum C H Dasso Dynamic Evolution of Three Body Decaying Resonances A S Jensen et al Angular Dispersion Behavior in Heavy Ion Elastic Scattering A Wang et al Microscopic Optical Potential in Relativistic Approach Z Yu Ma et al Thermal Pairing in Nuclei N D Dang Low Momentum Interactions for Nuclei A Schwenk Invariant Mass Spectroscopy of Halo Nuclei T Nakamura et al Knockout Reaction Spectroscopy of Exotic Nuclei J A Tostevin Pairing Correlations in Halo Nuclei H Sagawa Study of Giant Dipole Resonance in Continuum Relativistic Random Phase Approximation D Yang et al A Study of Pairing Interaction in a Separable Form Y Tian et al Microscopic Calculations Based on a Skyrme Functional Plus the Pairing Contribution J Li et al The Effect of the Tensor Force on Single Particle States and on the Isotope Shift W Zou et al and other papers Readership Researchers advanced graduates and post graduates in nuclear physics

Progress of Theoretical Physics , 2008 **Fundamentals of Superconductivity** Vladimir Z. Kresin, Stuart A. Wolf, 2013-06-29 The recent discovery of high temperature superconductivity has resulted in a remarkable growth in the amount of research and the number of researchers working in this exciting field Superconductivity is not a new phenomenon in 1991 it will be 80 years old Even though it was the newer discoveries which motivated us to write this book the book itself is mainly a description of the fundamentals of the phenomenon The book is written for a very broad audience including students engineers teachers scientists and others who are interested in learning about this exciting frontier of science We have focused on the qualitative aspects so that the reader can develop a basic understanding of the fundamental physics without getting bogged down in the details Because of this approach our list of references is not comprehensive and it is supplemented with a summary of additional reading consisting of monographs and selected review articles The articles we have referenced were either not reflected in the review articles on monographs or were milestones in the development of the field In addition some of the sections which can be skipped during the first reading have been marked with asterisks Until

recently superconductivity was considered to belong to the field of low temperature physics This field was born simultaneously with quantum physics at the beginning of this century Initially these two contemporaneous fields developed independently but they soon became strongly coupled

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