

# **Pair Correlations in Many-Fermion Systems**

**Edited by  
Vladimir Z. Kresin**

# Pair Correlations In Many Fermion Systems

**Willem H Dickhoff, Dimitri Van Neck**



## **Pair Correlations In Many Fermion Systems:**

**Pair Correlations in Many-Fermion Systems** Vladimir Z. Kresin, 2013-06-29 At first glance the articles in this book may appear to have nothing in common They cover such seemingly disparate subjects as the properties of small metallic clusters and the behavior of superfluid He3 nuclear physics and organic materials copper oxides and magnetic resonance Why have they been brought together particularly in our time of narrow specialization In fact the properties and effects described in this book touch upon one and the same fundamental phenomenon pair correlation Introduced in the theory of superconductivity by J Bardeen L Cooper and J Schrieffer BCS this effect plays a key role in various Fermi systems The book consists of several sections The first chapter is concerned with conventional and high Tc superconductors The second chapter describes two relatively young families of superconductors organics and fullerenes Chapter III addresses the superfluidity of  $^3\text{He}$  The discovery of this phenomenon in 1971 was a big event in physics and last year was acknowledged by a Nobel prize This book contains the text of the Nobel lecture Chapters IV and V are devoted to correlations in finite Fermi systems such as small metallic clusters C 60 anions and atomic nuclei The book thus covers a broad range of problems illuminating the close ties between various areas of physics

**Simple Models of Many-Fermion Systems** Joachim Alexander Maruhn, Paul-Gerhard Reinhard, Eric Suraud, 2010-05-17 The term finite Fermi systems usually refers to systems where the fermionic nature of the constituents is of dominating importance but the finite spatial extent also cannot be ignored Historically the prominent examples were atoms molecules and nuclei These should be seen in contrast to solid state systems where an infinite extent is usually a good approximation Recently new and different types of finite Fermi systems have become important most noticeably metallic clusters quantum dots fermion traps and compact stars The theoretical description of finite Fermi systems has a long tradition and developed over decades from most simple models to highly elaborate methods of many-body theory In fact finite Fermi systems are the most demanding ground for theory as one often does not have any symmetry to simplify classification and as a possibly large but always finite particle number requires to take into account all particles In spite of the practical complexity most methods rely on simple and basic schemes which can be well understood in simple test cases We therefore felt it a timely undertaking to offer a comprehensive view of the underlying theoretical ideas and techniques used for the description of such systems across physical disciplines The book demonstrates how theoretical can be successively refined from the Fermi gas via external potential and mean field models to various techniques for dealing with residual interactions while following the universality of such concepts like shells and magic numbers across the application fields

**Many-body Theory Of Correlated Fermion Systems - Proceedings Of The Vii Hispalensis International Summer School** Jose M Arias, M Isabel Gallardo, Manuel Lozano, 1998-05-30 The structure of matter is intimately related to the fundamental role played by many fermion systems The development in the last few decades of the microscopic many body theory of correlated fermion systems has been a fertile ground not only for spectacular achievements in basic science in

various areas of research but also for technological applications Among the numerous phenomena discovered and studied in systems of many fermions one can cite the superconductivity in metals the superfluidity in  $^3\text{He}$  nuclear matter and nuclei the quantum Hall effect the giant resonances in nuclei the Anderson localization and the metal insulator transition hole and electron diffusion in doped semiconductors etc All these phenomena can be understood only in terms of correlations occurring in many fermion systems and the formulation of the correct microscopic theory of each phenomenon has marked a milestone in pure science as well as the starting point for the exploitation of its potential technological applications It is likely that in the future further developments will take place in this field of basic science The Hispalensis International School is a summer school aimed mainly at young physicists both theoreticians and experimentalists engaged in research work at the predoctoral or recent postdoctoral level The objective of the School provide an opportunity for participants to come into contact with experienced researchers and hear their clear account of the state of the art of many body theories in nuclear physics as well as in related fields and the main future lines of development

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

*Moment of Inertia of Superfluid Many-fermion Systems* Ronald M. Rockmore,1959 Nuclear Science Abstracts ,1973 **Nuclear Theory Index** ,1964 **Physics Of Unstable Nuclei - Proceedings Of The International Symposium On The Ispun07** Dao Tien Khao,Peter Egelhof,Sydney Gales,Nguyen Van Giai,Tohru Motobayashi,2008-04-28 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

**Many-Body Theory Exposed!** Willem H Dickhoff,Dimitri Van Neck,2005-04-20 Standard textbooks on the many body problem do not include a wealth of valuable

experimental data in particular recent results from direct knockout reactions which are directly related to the single particle propagator in many body theory In this indispensable book the comparison with experimental data is incorporated from the start making the abstract concept of propagators vivid and comprehensible The discussion of numerical calculations using propagators or Green s functions also absent from current textbooks is presented in this book Much of the material has been tested in the classroom and the introductory chapters allow a seamless connection with a one year graduate course in quantum mechanics While the majority of books on many body theory deal with the subject from the viewpoint of condensed matter physics this book also emphasizes finite systems and should be of considerable interest to researchers in nuclear atomic and molecular physics A unified treatment of many different many body systems is presented using the approach of self consistent Green s functions Several topics not available in other books in particular the description of atomic Bose Einstein condensates have been included The coverage proceeds in a systematic way from elementary concepts such as second quantization and mean field properties to a more advanced but self contained presentation of the physics of atoms molecules nuclei nuclear and neutron matter electron gas quantum liquids atomic Bose Einstein and fermion condensates and pairing correlations in finite and infinite systems      Many-body Theory Exposed! Willem Hendrik Dickhoff,Dimitri Van Neck,2008 This comprehensive textbook on the quantum mechanics of identical particles includes a wealth of valuable experimental data in particular recent results from direct knockout reactions directly related to the single particle propagator in many body theory The comparison with data is incorporated from the start making the abstract concept of propagators vivid and accessible Results of numerical calculations using propagators or Green s functions are also presented The material has been thoroughly tested in the classroom and the introductory chapters provide a seamless connection with a one year graduate course in quantum mechanics While the majority of books on many body theory deal with the subject from the viewpoint of condensed matter physics this book emphasizes finite systems as well and should be of considerable interest to researchers in nuclear atomic and molecular physics A unified treatment of many different many body systems is presented using the approach of self consistent Green s functions The second edition contains an extensive presentation of finite temperature propagators and covers the technique to extract the self energy from experimental data as developed in the dispersive optical model The coverage proceeds systematically from elementary concepts such as second quantization and mean field properties to a more advanced but self contained presentation of the physics of atoms molecules nuclei nuclear and neutron matter electron gas quantum liquids atomic Bose Einstein and fermion condensates and pairing correlations in finite and infinite systems including finite temperature      **U.S. Government Research & Development Reports** ,1966-05-10      **Technical Report - Jet Propulsion Laboratory, California Institute of Technology** Jet Propulsion Laboratory (U.S.),1962      **Advances in the Theory of Quantum Systems in Chemistry and Physics** Philip E. Hoggan,Erkki J. Brändas,Jean Maruani,Piotr Piecuch,Gerardo Delgado-Barrio,2011-11-16 Advances in the Theory of Quantum

Systems in Chemistry and Physics is a collection of 32 selected papers from the scientific contributions presented at the 15th International Workshop on Quantum Systems in Chemistry and Physics QSCP XV held at Magdalene College Cambridge UK from August 31st to September 5th 2010 This volume discusses the state of the art new trends and the future of methods in molecular quantum mechanics and their applications to a wide range of problems in chemistry physics and biology The breadth and depth of the scientific topics discussed during QSCP XV are gathered in seven sections I Fundamental Theory II Model Atoms III Atoms and Molecules with Exponential Type Orbitals IV Density Oriented Methods V Dynamics and Quantum Monte Carlo Methodology VI Structure and Reactivity VII Complex Systems Solids Biophysics Advances in the Theory of Quantum Systems in Chemistry and Physics is written for research students and professionals in Quantum systems of chemistry and physics It also constitutes an invaluable guide for those wishing to familiarize themselves with research perspectives in the domain of quantum systems for thematic conversion or simply to gain insight into the methodological developments and applications to physics chemistry and biology that have actually become feasible by the end of 2010

**The Nuclear Many-Body Problem 2001** Witold Nazarewicz, Dario Vretenar, 2012-12-06 An expert and illuminating review of the leading models of nuclear structure effective field theories based on quantum chromodynamics ab initio models based on Monte Carlo methods employing effective nucleon nucleon interactions diagonalization and the Monte Carlo shell model non relativistic and relativistic mean field theory and its extensions and symmetry dictated approaches Theoretical advances in major areas of nuclear structure are discussed nuclei far from stability and radioactive ion beams gamma ray spectroscopy nuclear astrophysics and electroweak interactions in nuclei electron scattering nuclear superconductivity superheavy elements The interdisciplinary aspects of the many body problem are also discussed Recent experimental data are examined in light of state of the art calculations Recent advances in several broad areas of theoretical structure are covered making the book ideal as a supplementary textbook **American Book Publishing Record Cumulative 1998** R R Bowker Publishing, 1999-03 Heisenberg's Quantum Mechanics Mohsen Razavy, 2011 This book is focusing on presenting the matrix mechanics as it was discovered by Heisenberg Jordan Born and Pauli and bringing it up to date with contributions by a number of prominent physicists from the intervening years partly cited from the preface of the book

Non-equilibrium Dynamics of One-Dimensional Bose Gases Tim Langen, 2015-05-22 This work presents a series of experiments with ultracold one dimensional Bose gases which establish said gases as an ideal model system for exploring a wide range of non equilibrium phenomena With the help of newly developed tools like full distributions functions and phase correlation functions the book reveals the emergence of thermal like transient states the light cone like emergence of thermal correlations and the observation of generalized thermodynamic ensembles This points to a natural emergence of classical statistical properties from the microscopic unitary quantum evolution and lays the groundwork for a universal framework of non equilibrium physics The thesis investigates a central question that is highly contested in quantum physics

how and to which extent does an isolated quantum many body system relax This question arises in many diverse areas of physics and many of the open problems appear at vastly different energy time and length scales ranging from high energy physics and cosmology to condensed matter and quantum information A key challenge in attempting to answer this question is the scarcity of quantum many body systems that are both well isolated from the environment and accessible for experimental study

Recent Progress in Many-body Theories Raymond F. Bishop, 2002 Quantum many body theory as a discipline in its own right dates largely from the 1950 s It has developed since then to its current position as one of the cornerstones of modern theoretical physics The field remains vibrant and active vigorous and exciting Its most powerful techniques are truly universal They are constantly expanding to find new fields of application while advances continue to be made in the more traditional areas To commemorate the impending 80th birthdays of its two co inventors Firtz Coester and Hermann Kummel one such technique namely the coupled cluster method was especially highlighted at this meeting the eleventh in the series of International Conferences on Recent Progress in Many Body Theories The history of the coupled cluster method as told here mirrors in many ways both the development of the entire discipline of microscopic quantum many body theory and the history of the series of conferences The series itself is universally recognised as being the premier series of meetings in this subject area Its proceedings have always summarised the current state of the art through the lectures of its leading practitioners The present volume is no exception No serious researcher in quantum many body theory or in any field which uses it can afford to be without this volume

**Index of Conference Proceedings** British Library. Document Supply Centre, 1998

**Recent Progress In Many-body Theories - Proceedings Of The 11th International Conference** Raymond F Bishop, Tobias Brandes, Klaus A Gernoth, Niels R Walet, Yang Xian, 2002-12-16 Quantum many body theory as a discipline in its own right dates largely from the 1950 s It has developed since then to its current position as one of the cornerstones of modern theoretical physics The field remains vibrant and active vigorous and exciting Its most powerful techniques are truly universal They are constantly expanding to find new fields of application while advances continue to be made in the more traditional areas To commemorate the impending 80th birthdays of its two co inventors Firtz Coester and Hermann Kummel one such technique namely the coupled cluster method was especially highlighted at this meeting the eleventh in the series of International Conferences on Recent Progress in Many Body Theories The history of the coupled cluster method as told here mirrors in many ways both the development of the entire discipline of microscopic quantum many body theory and the history of the series of conferences The series itself is universally recognised as being the premier series of meetings in this subject area Its proceedings have always summarised the current state of the art through the lectures of its leading practitioners The present volume is no exception No serious researcher in quantum many body theory or in any field which uses it can afford to be without this volume

## The Enigmatic Realm of **Pair Correlations In Many Fermion Systems**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing in short supply of extraordinary. Within the captivating pages of **Pair Correlations In Many Fermion Systems** a literary masterpiece penned by a renowned author, readers attempt a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of those who partake in its reading experience.

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