



The Nuclear Many-Body Problem 2001

Edited by

Witold Nazarewicz and Dario Vretenar

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Nuclear Manybody Problem 2001

**Gerald E. Brown, Jeremy William
Holt, Thomas Tzu Szu Kuo**



Nuclear Manybody Problem 2001:

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

The Nucleon-nucleon Interaction and the Nuclear Many-body Problem Gerald E. Brown, Jeremy William Holt, Thomas Tzu Szu Kuo, 2010 This book provides a comprehensive overview of some key developments in the understanding of the nucleon nucleon interaction and nuclear many body theory The main problems at the level of meson exchange physics have been solved and we have an effective field theory using a phenomenological interaction pioneered by Achim Schwenk and Scott Bogner which is nearly universally accepted as a unique low momentum interaction that includes all experimental data to date This understanding is based on a multi step development in which different scientific insights and a wide range of physical and mathematical methodologies fed into each other It is best appreciated by looking at the different steps along the way starting with the pioneering work of Brueckner and his collaborators that was just as necessary and important as the insightful masterly improvements to Brueckner's theory by Hans Bethe and his students Moving on from there the off shell effects that bedeviled Bethe's work which had resulted in the 1963 Reference Spectrum Method were treated relatively accurately by introducing an energy gap between initial bound states and an intermediate state With their influential 1967 paper Brown and Kuo prepared the effective field theory Later the introduction of Brown Rho scaling deepened understanding of saturation in the many body system and fed directly into recent work on carbon 14 dating

Nucleon-nucleon Interaction And The Nuclear Many-body Problem, The: Selected Papers Of Gerald E Brown And T T S Kuo Gerald E Brown, Thomas T S Kuo, Sabine Lee, Jeremy William Holt, 2010-07-05 This book provides a comprehensive overview of some key developments in the understanding of the nucleon nucleon interaction and nuclear many body theory The main problems at the level of meson exchange physics have largely been solved and we now have an effective nucleon nucleon interaction pioneered in a renormalization group formalism by several of us at Stony Brook and our colleagues at Naples which is nearly universally accepted as the unique low momentum interaction that includes all experimental information to date Our present understanding of these issues is based on a multi step development in which different scientific insights and a wide range of physical and mathematical

methodologies fed into each other It is best appreciated by looking at the steps along the way starting with the pioneering work of Brueckner and his collaborators that was just as necessary and important as the insightful improvements to Brueckner's theory by Hans Bethe and his students Moving on from these microscopic methods for nuclear structure calculations using the Brueckner G matrix and later low momentum nucleon interactions were developed and applied With their influential 1967 paper Brown and Kuo prepared the effective theory that allowed the description of nuclear properties directly from the underlying nucleon nucleon interaction Later the addition of Brown Rho scaling to the one boson exchange model deepened the understanding of nuclear matter saturation carbon 14 dating and the structure of neutron stars

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

Innovative Computational Methods In Nuclear Many-body Problems - Towards A New Generation Of Physics In Finite Quantum Systems Hisashi Horiuchi, Hiroshi Toki, Yoshikazu Fujiwara, M Kamimura, Masayuki Matsuo, Y Sakuragi, 1998-09-02 The recent rapid innovations in supercomputer technology are changing the concepts of numerical calculations employed in solving a wide variety of nuclear many body problems The purpose of the XVII RCNP International Symposium on Innovative Computational Methods in Nuclear Many Body Problems INNOCOM97 was to discuss the frontiers of various computational methods and to exchange ideas in wide fields of nuclear physics The subjects discussed at the symposium covered almost all the areas of nuclear physics

The Nuclear Many-body Problem Francesco Calogero, C. Ciofi Degli Atti, 1973

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 Fritz 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

Introduction To Modern Methods Of Quantum Many-body Theory And Their Applications Adelchi Fabrocini, Stefano Fantoni, Eckhard Krotscheck, 2002-08-19 This invaluable book contains pedagogical articles on the dominant nonstochastic methods of microscopic many body theories the methods of density functional theory coupled cluster theory and correlated basis functions in their widest sense Other 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 that are 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 It should therefore provide useful reference material for a broad range of theoretical physicists in condensed matter and nuclear theory

The Nuclear Many-Body Problem Peter Ring, Peter Schuck, 2004-03-25 Study Edition

Recent Progress in Many-body Theories, Manchester, UK, 9-13 July, 2001 Raymond F. Bishop, 2003

Nuclei at Extremes of Isospin and Mass A. Ansari, R. K. Choudhury, 2005 Contributed articles presented in a workshop organised by Institute of Physics Bhubaneswar held during Mar 10 22 2003

Recent Developments in the Nuclear Many-body Problem: Strong interactions and nuclear structure Ludwig Münchow, 1985

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 Fritz 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

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Quantum Theory of Anharmonic Effects in Molecules Konstantin V. Kazakov, 2012-07-09 Presented in a clear and straightforward analysis this book explores quantum mechanics and the application of quantum mechanics to interpret spectral phenomena Specifically the book discusses the relation between spectral features in mid or rear infrared regions or in Raman scattering spectrum and interactions between molecules or molecular species such as molecular ions and their respective motions in gaseous or crystalline conditions Beginning with an overview of conventional methods and problems which arise in molecular spectroscopy the second half of the book suggests original techniques to investigate the area The treatment is based on rigorous quantum mechanical theories and procedures that are readily implemented in either manual methods or with symbolic computational software Offers a novel approach in its application to physical phenomena Concise and clear discussions of quantum mechanical theories and spectrum analysis Provides both theories and applications

Methods in Computational Chemistry Stephen Wilson, 2013-11-11 When forty years ago as a student of Charles Coulson in Oxford I began work in theoretical chemistry I was provided with a Brunsviga calculator a small mechanical device with a handle for propulsion metal levers for setting the numbers and a bell that rang to indicate overflow What has since come to be known as computational chemistry was just beginning There followed a long period in which the fundamental theory of the golden age 1925-1935 was extended and refined and in which the dreams of the early practitioners were gradually turned into hard arithmetic reality As a still computing survivor from the early postwar days now enjoying the benefits of unbelievably improved hardware I am glad to contribute a foreword to this series and to have the opportunity of providing a little historical perspective After the Brunsviga came the electromechanical machines of the late 1940s and early 1950s and a great reduction in the burden of calculating molecular wavefunctions We were now happy At least for systems containing a few electrons it was possible to make fully ab initio calculations even though semiempirical models remained indispensable for most molecules of everyday interest The 1950 papers of Hall and of Roothaan represented an important milestone along the road to larger scale non empirical calculations extending the prewar work of Hartree and Fock from many electron atoms to many electron molecules and thus into real chemistry

At the Frontier of Particle Physics Mikhail A. Shifman, 2001 Introduction M Shifman Introducing Boris Ioffe B V Geshkenbein Boris Lazarevich Ioffe is 75 I B Khriplovich ch 1 Pages of the past A top secret assignment B L Ioffe Editor's comments Snapshots from the 1950s Yu F Orlov ch 2 The making of QCD Quantizing the Yang Mills field L D Faddeev The discovery of asymptotic freedom and the emergence of QCD D J Gross Editor's note Recollections on dimensional regularization and related topics C G Bollini Historical curiosity how asymptotic freedom of the Yang Mills theory could have been discovered three times before Gross

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Neutrino Physics: Its Impact On Particle Physics, Astrophysics And Cosmology - Proceedings Of The Carolina Symposium On Neutrino Physics John N
 Bahcall, Wick C Haxton, Kuniharu Kubodera, Charles P Poole, 2001-05-14 Neutrinos play a key role in many areas of particle
 physics nuclear physics and astrophysics The recent discovery of neutrino oscillation has given the first hint of new physics
 beyond the standard model Clearly it is extremely important to study further the oscillation and other fundamental properties
 of neutrinos It is also important to improve our knowledge of neutrino nucleus reactions which are crucial for understanding
 a large class of astrophysical phenomena These and many other interesting questions can be investigated at stopped pion
 neutrino facilities like the one planned for the Spallation Neutron Source at the Oak Ridge National Laboratory The purpose
 of the Carolina Symposium was twofold 1 to explore and exchange ideas on the latest developments in general frontiers of
 neutrino physics and related fields 2 to address specific issues pertaining to the above mentioned stopped pion neutrino
 facility Among the topics covered in the proceedings are cosmology and neutrino standard model tests with neutrinos
 neutrino oscillation experiments and theories dark matter search double beta decay rare events detection techniques the
 solar neutrino problem supernova explosion nucleosynthesis and the ORLaND project

The Euroschool on Exotic

Beams, Vol. VI Silvia M. Lenzi,Dolores Cortina-Gil,2022-08-25 This book is based on the lectures given at the Euroschool on Exotic Beams and collects contributions which address topics from the traditional core of the field of exotic nuclei like nuclear structure far from stability discussing recent theoretical developments and state of the art experimental methods It provides also new perspectives in nuclear astrophysics and in applied areas such as gamma ray emission imaging The contributions are written with a pedagogical approach and carefully edited in order to provide the readership with a clear and fluent reading The book is intended for PhD students and young researchers who are approaching the new research lines in nuclear physics with exotic nuclei Only basics concepts on quantum mechanics and nuclear physics are requested to follow and master the covered arguments

Proceedings of the International Symposium on Frontiers of Collective Motions (CM2002) Hiroyuki Sagawa,Hironori Iwasaki,2003 The physics of nuclear collective motion was pioneered by A Bohr and B R Mottelson 50 years ago Since then experimental and theoretical development in this field has been remarkable under the leadership of the Copenhagen group In the 21st century a new era has opened up due to the recent developments of experimental facilities especially radioactive ion beams and large ray arrays Interest in collective motions is now shared in the research of other quantum many body systems for example microclusters and Bose Einstein condensation It is therefore timely and important to review the current understanding of collective motions and discuss new directions of future study The main topics of the symposium include recent theoretical and experimental progress in the understanding of vibrational and rotational motions in nuclei Collective motions of Bose Einstein condensation and microclusters are also addressed The symposium invited several keynote speakers to review and discuss our present understanding and to identify future challenges Oral presentations are also selected from submitted contributions This symposium is an opportunity not just to present progress and future prospects but to exchange new ideas and to provoke controversies through intellectual debates The proceedings have been selected for coverage in Index to Scientific Technical Proceedings ISTP CDROM version ISI Proceedings

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