

# **NUCLEAR STRUCTURE**

**Volume I: Single-Particle Motion**



**Aage Bohr**  
**Ben R. Mottelson**

World Scientific

# Nuclear Structure Singleparticle Motion Nuclear Deformations

**P.F. Bortigan,A. Bracco,R.A. Brogila**



## **Nuclear Structure Singleparticle Motion Nuclear Deformations:**

**Nuclear Structure** Aage Bohr, Ben R. Mottelson, 1997-09 The field has expanded in so many directions in connection with the increase in accessible energy angular momentum and nuclear species and the new phenomena which have been revealed have stimulated conceptual developments concerning the significant degrees of freedom and their interplay in nuclear dynamics it would be impossible for us to provide an assessment of this vastly expanded subject with anything like the degree of comprehensiveness aimed at in the original text At the same time this text continues to describe the basis for the understanding of nuclear structures as we see it today foreword from the new preface After many years this classic two volume treatise is now available again in an unabridged reprint These volumes present the basic features of nuclear structure in terms of an integration of collective and independent particle aspects and remain a foundation for current efforts in the field Central to the book's value is an approach that recognizes the many connections between concepts of nuclear physics and those of other many body systems and that deals boldly with the interplay between theory and experiment Aside from the main text which provides a systematic exposition of the subject there are sections labeled Illustrative Examples which present detailed analyses of experimental results and the manner in which they illuminate the concepts developed in the text Many useful appendices on general theoretical tools are also included covering topics such as angular momentum algebra symmetry problems statistical description of level densities and theory of nuclear reactions and decays

**Nuclear Structure** Aage Bohr, Ben R. Mottelson, 1969      **Nuclear Science Abstracts**, 1976      **Interacting Boson Model from Energy Density Functionals** Kosuke Nomura, 2013-02-11 This thesis describes a novel and robust way of deriving a Hamiltonian of the interacting boson model based on microscopic nuclear energy density functional theory Based on the fact that the multi nucleon induced surface deformation of finite nucleus can be simulated by effective boson degrees of freedom observables in the intrinsic frame obtained from self consistent mean field method with a microscopic energy density functional are mapped onto the boson analog Thereby the excitation spectra and the transition rates for the relevant collective states having good symmetry quantum numbers are calculated by the subsequent diagonalization of the mapped boson Hamiltonian Because the density functional approach gives an accurate global description of nuclear bulk properties the interacting boson model is derived for various situations of nuclear shape phenomena including those of the exotic nuclei investigated at rare isotope beam facilities around the world This work provides for the first time crucial pieces of information about how the interacting boson model is justified and derived from nucleon degrees of freedom in a comprehensive manner

**Intermediate-Energy Nuclear Physics** A.S. Iljinov, 2018-01-18 Intermediate Energy Nuclear Physics is devoted to discussing the interaction between hadrons with nuclei which leads to the emission of particles during an intranuclear cascade and subsequent decay of a highly excited residual nucleus Experimental data and the methods and results of the calculation of probabilities of various processes initiated by intermediate energy hadrons in nuclei are set forth

and discussed The potential for obtaining information on the structure and properties of nuclei by comparing experimental data with theoretical results is analyzed New issues such as analytic methods for the solution of kinetic equations describing the cascade nuclear absorption of hadrons from bound states of hadronic atoms interaction of antinucleons with nuclei multifragmentation of highly excited residual nuclei and polarization phenomena are discussed in detail The book also demonstrates hadron nucleus interactions that bridge the gap between low energy and heavy ions physics It is an interesting reference for nuclear physicists and other researchers interested in the analysis of problems associated with the evolution of the early hot universe neutron stars and supernovas after burning of radioactive waste in nuclear energy installations and electronuclear energy breeding

Nuclear Structure: Single-particle motion.-v.2. Nuclear deformations Aage Bohr,Ben R. Mottelson,1969

Theoretical Nuclear and Subnuclear Physics John Dirk Walecka,2004 This book is a revised and updated version of the most comprehensive text on nuclear physics first published in 1995 It maintains the original goal of providing a clear logical in depth and unifying treatment of modern nuclear theory ranging from the nonrelativistic many body problem to the standard model of the strong electromagnetic and weak interactions In addition new chapters on the theoretical and experimental advances made in nuclear physics in the past decade have been incorporated This book is designed to provide graduate students with a basic understanding of modern nuclear and hadronic physics needed to explore the frontiers of the field Researchers will benefit from the updates on developments and the bibliography Jacket

*Binding Energy of Strongly Deformed Radionuclides* Vladimir Manea,2015-08-07 This thesis reports results of precision mass spectrometry of exotic nuclides as a means of elucidating their structure The work was performed with the ISOLTRAP spectrometer at CERN s ISOLDE facility The author furthermore offers an overview of existing techniques used in Penning trap mass spectrometry and also reports on recent promising developments regarding ISOLTRAP This eloquently written treatment covers both theory and experiment and includes a general phenomenological introduction to the nuclear structure intuition contained in the trends of nuclear binding energies

*Symmetries in Atomic Nuclei* Alejandro Frank,Jan Jolie,Pieter van Isacker,2008-12-18 Symmetries in Atomic Nuclei aims to present an overview of recent applications of symmetry to the description of atomic nuclei Special care is given to a pedagogical introduction of symmetry concepts using simple examples After a historical overview of the applications of symmetry in nuclear physics progress in the field during the last decade is reviewed Special emphasis is put on the introduction of neutron proton and boson fermion degrees of freedom Their combination leads to a supersymmetric description of pairs and quartets of nuclei Both theoretical aspects and experimental signatures of dynamical super symmetries are carefully discussed Case studies show how these symmetries are displayed by real atomic nuclei which have been studied experimentally using state of the art spectroscopy This book focuses on nuclear structure physics and has been written by active investigators in the field but its scope is wider and is intended for final year or post graduate students and researchers interested in understanding the power and beauty of symmetry methods in

physics     **Introduction To Modern Physics: Theoretical Foundations** John Dirk Walecka, 2008-07-10 Our understanding of the physical world was revolutionized in the twentieth century the era of modern physics This book aimed at the very best students presents the foundations and frontiers of today's physics It focuses on the following topics quantum mechanics applications in atomic nuclear particle and condensed matter physics special relativity relativistic quantum mechanics including the Dirac equation and Feynman diagrams quantum fields and general relativity The aim is to cover these topics in sufficient depth such that things make sense to students and they can achieve an elementary working knowledge of them Many problems are included a great number of which take dedicated readers just as far as they want to go in modern physics Although the book is designed so that one can in principle read and follow the text without doing any of the problems the reader is urged to attempt as many of them as possible Several appendices help bring the reader up to speed on any additional required mathematics With very few exceptions the reader should then find the text together with the appendices and problems to be self contained     **Quantum Chaos Y2k, Proceedings Of Nobel Symposium 116** Sven Aberg, Karl-fredrik Berggren, 2001-10-09 Quantum chaos is becoming a very wide field that ranges from experiments to theoretical physics and purely mathematical issues In view of this grand span Nobel Symposium 116 focused on experiments and theory and attempted to encourage interplay between them There was emphasis on the interdisciplinary character of the subject involving a broad range of subjects in physics including condensed matter physics nuclear physics atomic physics and elementary particle physics The physics involved in quantum chaos has much in common with acoustics microwaves optics etc and therefore the symposium also covered aspects of wave chaos in this broader sense The program was structured according to the following areas manifestations of classical chaos in quantum systems transport phenomena quantal spectra in terms of periodic orbits semiclassical and random matrix approaches quantum chaos in interacting systems chaos and tunneling wave dynamic chaos This important book constitutes the proceedings of the symposium     *Physics Essays*, 1997

100 Years of Subatomic Physics Ernest M. Henley, Stephen D. Ellis, 2013 This book reviews the important achievements in subatomic physics in the past century The chapters are divided into two parts nuclear physics and particle physics This book provides academics and researchers an essential overview of the present state of knowledge in nuclear and particle physics

*Theory and Applications of the Poincaré Group* Sibel Başkal, Young Suh Kim, Marilyn E. Noz, 2024-11-14 This book is intended mainly as a teaching tool directed toward those who desire a deeper understanding of group theory in terms of examples applicable to the physical world and or of the physical world in terms of the symmetry properties which can best be formulated in terms of group theory Both advanced students and scholars interested in the relationship between group theory and physics will find it instructive In particular those engaged in high energy physics and foundations of quantum mechanics will find this book rich in illustrative examples of relativistic quantum mechanics This new edition contains four new chapters two of which are consistent with Dirac's aim to combine the important developments in physics in the twentieth

century namely quantum mechanics and special relativity Moreover these new chapters also discuss various aspects of classical and quantum optics that are now understood to be interrelated Most of the original chapters have been updated either with new material added or in some instances reinterpretation of the original The order of the chapters has been rearranged to create a more cohesive presentation The original purpose of the first edition namely to present examples to which physics students and researchers can relate has not been altered

Perspectives In Physical Acoustics - Proceedings Of The Bolef Symposium Y Fu,R K Sundfors,P Priesmeyer Suntharothok,1992-10-09 This Symposium was held in honor of the 70th birthday of Dan Bolef Professor Emeritus at Washington University who joined the physics department in 1963 The articles in this volume are by internationally known and active leaders in the area of physical acoustics who were selected on the basis of their pedagogical skills as well as their stature within the field This book provides a broad coverage of acoustics science and is sufficiently clear and pedagogical

**Energy Research Abstracts** ,1993

Classical Orthogonal Polynomials of a Discrete Variable Arnold F. Nikiforov,Sergei K. Suslov,Vasilii B. Uvarov,2012-12-06 While classical orthogonal polynomials appear as solutions to hypergeometric differential equations those of a discrete variable emerge as solutions of difference equations of hypergeometric type on lattices The authors present a concise introduction to this theory presenting at the same time methods of solving a large class of difference equations They apply the theory to various problems in scientific computing probability queuing theory coding and information compression The book is an expanded and revised version of the first edition published in Russian Nauka 1985 Students and scientists will find a useful textbook in numerical analysis

*Giant Resonances* P.F. Bortigan,A. Bracco,R.A. Brogila,2023-05-31 The series of volumes Contemporary Concepts in Physics is addressed to the professional physicist and to the serious graduate student of physics The subject of many body systems constitutes a central chapter in the study of quantum mechanics with applications ranging from elementary particle and condensed matter physics to the behaviour of compact stellar objects Quantal size effects is one of the most fascinating facets of many body physics this is testified to by the developments taking place in the study of metallic clusters fullerenes nanophase materials and atomic nuclei This book is divided into two main parts the study of giant resonances based on the atomic nucleus ground state zero temperature and the study of the  $\gamma$  decay of giant resonances from compound finite temperature nuclei

**Information Sources in Physics** Dennis F. Shaw,1994 This third edition includes two new chapters on quantum optics and physics of materials and eight of the other chapters have been completely rewritten by new authors All chapters have been revised and updated Patent coverage now includes European and international patents Theoretical materials a

**Isotope Shifts in Atomic Spectra** W.H. King,2013-11-11 Atomic and nuclear physics are two flourishing but distinct branches of physics the subject of isotope shifts in atomic spectra is one of the few that links these two branches It is a subject that has been studied for well over fifty years but interest in the subject far from flagging has been stimulated in recent years Fast computers have enabled theoreticians to evaluate the properties of many electron

atoms and laser spectroscopy has made it possible to measure isotope shifts in the previously unmeasurable areas of very rare isotopes short lived radioactive isotopes weak transitions and transitions involving high lying atomic levels Isotope shifts can now be measured with greater accuracy than before in both optical transitions and x ray transitions of muonic atoms this improved accuracy is revealing new facets of the subject I am very grateful to Dr H G Kuhn F R S for having introduced me to the subject in the 1950s and for supervising my efforts to measure isotope shifts in the spectrum of ruthenium I thus approach the subject as an experimental atomic spectroscopist This bias is obviously apparent in my use of the spectroscopist s notation of lower upper for a transition rather than the nuclear physicist s upper lower My reasons are given in Section 1 3 and I hope that nuclear physicists will forgive me for using this notation even for muonic x ray transitions

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