

# **NUCLEAR STRUCTURE**

**Volume I: Single-Particle Motion**



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

World Scientific

# Nuclear Structure Singleparticle Motion Nuclear Deformations

**Y Pai**

A decorative graphic element consisting of a light blue horizontal bar with a rounded right end, and a red circular gradient shape partially visible behind it.

## **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

**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      **Intermediate-Energy Nuclear Physics** A.S.

Ijtinov,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      *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

**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

**Computer Algebra in Scientific Computing**  
 François Boulrier, Matthew England, Ilias Kotsireas, Timur M. Sadykov, Evgenii V. Vorozhtsov, 2023-08-23 This book constitutes the refereed proceedings of the 25th International Workshop on Computer Algebra in Scientific Computing CASC 2023 which took place in Havana Cuba during August 28 September 1 2023 The 22 full papers included in this book were carefully reviewed and selected from 29 submissions They focus on the theory of symbolic computation and its implementation in computer algebra systems as well as all other areas of scientific computing with regard to their benefit from or use of computer algebra methods and software

**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

**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

**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

**Physics Essays**, 1997      Physics 1971-1980 Stig Lundqvist, 1992 These volumes are collections of the Nobel Lectures delivered by the prizewinners together with their biographies portraits and the presentation speeches for the period 1971-1990 Each Nobel Lecture is based on the work that won the laureate his prize New biographical data of the laureates since they were awarded the Nobel Prize are also included These volumes of inspiring lectures by outstanding physicists should be on the bookshelf of every keen student teacher and professor of physics as well as those in related fields Below is a list of the prizewinners during the period 1971-1980 with a description of the works which won them their prizes

1971 D GABOR for his invention and development of the holographic method 1972 J BARDEEN L N COOPER 1973 L ESAKI B D JOSEPHSON for his theoretical predictions of the properties of a supercurrent through a tunnel barrier in particular those phenomena which are generally known as the Josephson effects 1974 M RYLE 1975 A BOHR B MOTTELSON 1976 B RICHTER 1977 P W ANDERSON N F MOTT 1978 P L KAPITSA for his basic inventions and discoveries in the area of low temperature physics A A PENZIAS 1979 S L GLASHOW A SALAM 1980 J W CRONIN V L FITCH for the discovery of violations of fundamental symmetry principles in the decay of neutral K mesons

**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

**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

**Meson 2002 - Proceedings Of The 7th International Workshop On Production, Properties And Interaction Of Mesons**

Carlo Guaraldo, Lucjan Jarczyk, Hartmut Machner, Andrzej Magiera, 2003-01-15 This volume deals with both the experimental and theoretical aspects of meson physics in particular it presents new results The main topics are hadronic and electromagnetic meson production in various reactions meson interaction with mesons nucleons and nuclei the structure of hadrons mesons and fundamental symmetries exotic systems The book provides an overview of the current status of these areas as well as of new developments besides giving a preview of the forthcoming investigations

*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

**Physics, 1963-1970**, 1998 <http://www.worldscientific.com/worldscibooks/10/1142/3729>

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## **Table of Contents Nuclear Structure Singleparticle Motion Nuclear Deformations**

1. Understanding the eBook Nuclear Structure Singleparticle Motion Nuclear Deformations
  - The Rise of Digital Reading Nuclear Structure Singleparticle Motion Nuclear Deformations
  - Advantages of eBooks Over Traditional Books
2. Identifying Nuclear Structure Singleparticle Motion Nuclear Deformations
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Nuclear Structure Singleparticle Motion Nuclear Deformations
  - User-Friendly Interface
4. Exploring eBook Recommendations from Nuclear Structure Singleparticle Motion Nuclear Deformations
  - Personalized Recommendations
  - Nuclear Structure Singleparticle Motion Nuclear Deformations User Reviews and Ratings
  - Nuclear Structure Singleparticle Motion Nuclear Deformations and Bestseller Lists
5. Accessing Nuclear Structure Singleparticle Motion Nuclear Deformations Free and Paid eBooks
  - Nuclear Structure Singleparticle Motion Nuclear Deformations Public Domain eBooks
  - Nuclear Structure Singleparticle Motion Nuclear Deformations eBook Subscription Services
  - Nuclear Structure Singleparticle Motion Nuclear Deformations Budget-Friendly Options



6. Navigating Nuclear Structure Singleparticle Motion Nuclear Deformations eBook Formats
  - ePub, PDF, MOBI, and More
  - Nuclear Structure Singleparticle Motion Nuclear Deformations Compatibility with Devices
  - Nuclear Structure Singleparticle Motion Nuclear Deformations Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Nuclear Structure Singleparticle Motion Nuclear Deformations
  - Highlighting and Note-Taking Nuclear Structure Singleparticle Motion Nuclear Deformations
  - Interactive Elements Nuclear Structure Singleparticle Motion Nuclear Deformations
8. Staying Engaged with Nuclear Structure Singleparticle Motion Nuclear Deformations
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Nuclear Structure Singleparticle Motion Nuclear Deformations
9. Balancing eBooks and Physical Books Nuclear Structure Singleparticle Motion Nuclear Deformations
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Nuclear Structure Singleparticle Motion Nuclear Deformations
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Nuclear Structure Singleparticle Motion Nuclear Deformations
  - Setting Reading Goals Nuclear Structure Singleparticle Motion Nuclear Deformations
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Nuclear Structure Singleparticle Motion Nuclear Deformations
  - Fact-Checking eBook Content of Nuclear Structure Singleparticle Motion Nuclear Deformations
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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