

SHAPES AND SHELLS IN NUCLEAR STRUCTURE



SVEN GÖSTA NILSSON
AND INGEMAR RAGNARSSON

Shapes And Shells In Nuclear Structure

Hellmut Haberland



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Shapes and Shells in Nuclear Structure Sven Gvsta Nilsson, Ingemar Ragnarsson, 1995-06-22 A detailed review of the key models of nuclear structure and dynamics

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Nuclear Shells-50 Years Yu. Ts Oganessian, R. Kalpakchieva, 2000 It is known that nuclear shells play a particularly important role in the collective motion of nuclear matter and as a consequence determine the structure of nuclei nuclear dynamics nuclear decay models etc In 1999 the nuclear shell model turned fifty and the 49th meeting on Nuclear Spectroscopy and Nuclear Structure was devoted to nuclear shells in their various manifestations The talks presented at the conference covered a wide range of experimental and theoretical studies

Fission And Properties Of Neutron-rich Nuclei - Proceedings Of The Fifth International Conference On Icf5 Joseph H Hamilton, Akunuri V Ramayya, 2013-09-16 These proceedings are the fifth in the series of International Conferences covering fission and properties of neutron rich nuclei which are at the forefront of nuclear research The time interval of 5 years between each conference allows for significant new results to be achieved Recently world leaders in theory and experiments in research and the development of new facilities for research presented their latest results in areas such as synthesis of superheavy elements new facilities for and recent results with radioactive ion beams structure of neutron rich nuclei nuclear fission process fission yields and nuclear astrophysics This book is a major source of the latest research in these areas and plans for the future The conference brought together a unique group of over

100 speakers including leaders from the major nuclear laboratories in Canada China France Finland Germany Italy Japan Russia Switzerzland and the US along with leading research scientists from around the world **MUS - Mathematimus - Hyperelliptical Geometry** Stenio Musich,2024-03-25 M U S Mathematical Uniform Space is a new number of pi representing the reality of the Universe in which we live With this number we created a new geometry Hyperelliptical Geometry which will provide the unification of physics thus uniting the Theory of Relativity and Quantum Theory A new geometry for a new Mathematics and a new Physics ISBN 978 65 00 98107 0 Clusters of Atoms and Molecules Hellmut Haberland,2013-11-11 Clusters of Atoms and Molecules I is devoted to theoretical concepts and experimental techniques important in the rapidly expanding field of cluster science Cluster properties are dicussed for clusters composed of alkali metals semiconductors transition metals carbon oxides and halides of alkali metals rare gases and neutral molecules The book contains several well integrated treatments all prepared by experts Each contribution starts out as simple as possible and ends with the latest results so that the book can serve as a text for a course an introduction into the field or as a reference book for the expert Shell Structure at High Spin and the Influence on Nuclear Shapes ,1982 Nuclear structure at high spin is influenced by a combination of liquid drop and shell structure effects For N 86 both contribute towards the occurrence along the yrast line of high spin oblate aligned particle configurations Shell effects are mainly responsible for the prolate deformation of nuclei with N 90 The competition between oblate and prolate driving effects leads to a prolate to oblate shape transition in 154Dy The role of rotation aligned configurations in the shape change is discussed *Frontiers of Nuclear Structure* Paul Fallon,Roderick Clark,2003-03-05 The conference was devoted to the latest research and developments in nuclear structure physics in particular the investigation of the way that the structure and fundamental excitations of nuclei change with angular momentum isospin excitation energy and mass This volume provides a broad overview of contemporary topics in this active field of research **Workshop on Microscopic Models in Nuclear Structure Physics, 3-6 October 1988, Oak Ridge, Tennessee** M. W. Guidry,1989 **Treatise on Heavy-Ion Science** D.A. Bromley,2012-12-06 Modern Nuclear Physics Alexandre Obertelli,Hiroyuki Sagawa,2021-09-25 This textbook is a unique and ambitious primer of nuclear physics which introduces recent theoretical and experimental progresses starting from basics in fundamental quantum mechanics The highlight is to offer an overview of nuclear structure phenomena relevant to recent key findings such as unstable halo nuclei superheavy elements neutron stars nucleosynthesis the standard model lattice quantum chromodynamics LQCD and chiral effective theory An additional attraction is that general properties of nuclei are comprehensively explained from both the theoretical and experimental viewpoints The book begins with the conceptual and mathematical basics of quantum mechanics and goes into the main point of nuclear physics nuclear structure radioactive ion beam physics and nuclear reactions The last chapters devote interdisciplinary topics in association with astrophysics and particle physics A number of illustrations and exercises with complete solutions are given Each chapter is

comprehensively written starting from fundamentals to gradually reach modern aspects of nuclear physics with the objective to provide an effective description of the cutting edge in the field Symmetry and Structural Properties of Condensed Matter Tadeusz Lulek, Barbara Lulek, A. Wal, 2001 This volume continues the series of proceedings of summer schools on theoretical physics related to various aspects of the structure of condensed matter and to appropriate mathematical methods for an adequate description Three main topics are covered i symmetric and unitary groups versus electron correlations in multicentre systems ii conformal symmetries the Bethe ansatz and quantum groups iii paradoxes of statistics space time and time quantum mechanics Problems considered in previous schools are merged with some new developments like statistics with continuous Young diagrams the existence and structure of energy bands in solids with fullerenes membranes and some coverings of graphite sheets or vortex condensates with quantum counterparts of Maxwell lows **International**

Symposium on Exotic Nuclei Yu. E. Penionzhkevich, E. A. Cherepanov, 2002 This book is a collection of talks presented at the International Symposium on Exotic Nuclei held at Lake Baikal Russia on 24-28 July 2001 The talks were given by the leading scientists in the physics of exotic nuclei Among the topics of the Symposium were the following production and study of properties of nuclei in extreme states strongly deformed nuclei highly excited nuclei and nuclei far from the line of stability as well as nuclei having large angular momenta New results of investigations are presented in the book in particular the data on new nuclei with proton or neutron haloes on the changes in the shell structure of nuclei near the drip lines and on the structure of exotic nuclei including information on the island of inversion The latest results on the synthesis of new superheavy elements are also provided and existing detecting devices and accelerators of exotic nuclei as well as future projects for the creation of similar set ups are presented **Symmetry And Structural Properties Of Condensed**

Matter, Proceedings Of The Sixth's International School Of Theoretical Physics Tadeusz Lulek, Barbara Lulek, Andrzej Wal, 2001-05-31 This volume continues the series of proceedings of summer schools on theoretical physics related to various aspects of the structure of condensed matter and to appropriate mathematical methods for an adequate description Three main topics are covered i symmetric and unitary groups versus electron correlations in multicentre systems ii conformal symmetries the Bethe ansatz and quantum groups iii paradoxes of statistics space time and time quantum mechanics Problems considered in previous schools are merged with some new developments like statistics with continuous Young diagrams the existence and structure of energy bands in solids with fullerenes membranes and some coverings of graphite sheets or vortex condensates with quantum counterparts of Maxwell lows **Scientific and Technical Aerospace**

Reports , 1992 **Exotic Nuclei - Exon-2001, Proceedings Of The International Symposium** Evgeni A Cherepanov, Yuri Erastovich Penionzhkevich, 2002-05-15 This book is a collection of talks presented at the International Symposium on Exotic Nuclei held at Lake Baikal Russia on 24-28 July 2001 The talks were given by the leading scientists in the physics of exotic nuclei Among the topics of the Symposium were the following production and study of properties of

nuclei in extreme states strongly deformed nuclei highly excited nuclei and nuclei far from the line of stability as well as nuclei having large angular momenta New results of investigations are presented in the book in particular the data on new nuclei with proton or neutron haloes on the changes in the shell structure of nuclei near the drip lines and on the structure of exotic nuclei including information on the island of inversion The latest results on the synthesis of new superheavy elements are also provided and existing detecting devices and accelerators of exotic nuclei as well as future projects for the creation of similar set ups are presented International Conference on Exotic Nuclei and Atomic Masses Michel Saint Simon, Olivier Sorlin, 1995 The Elements Beyond Uranium Glenn T. Seaborg, Walter D. Loveland, 1991-01-16 Written by Glenn T Seaborg Nobel Laureate and pre eminent figure in the field with the assistance of Walter D Loveland it covers all aspects of transuranium elements including their discovery chemical properties nuclear properties nuclear synthesis reactions experimental techniques natural occurrence superheavy elements and predictions for the future Published on the fiftieth anniversary of the discovery of transuranium elements it conveys the essence of the ideas and distinctive blend of theory and experiment that has marked their study **Clustering Aspects Of Nuclear Structure And Dynamics: Cluster '99 - Proceedings Of The 7th International Conference** Roman Caplar, 2000-03-02 In the past three decades our understanding of the clustering behavior of nucleons in both nuclear structure and nuclear dynamics has evolved considerably Moreover the notion of the cluster has made its way into a number of scientific disciplines This book provides an overview of the current understanding of clustering phenomena in nuclear structure and nuclear dynamics The topics covered include fundamental aspects of nuclear clustering models of nucleon clusterization clustering aspects of nuclear structure selected topics on clustering aspects in medium and high energy nucleus nucleus collisions

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