

# Frontier Topics in Nuclear Physics

Edited by

Werner Scheid and Aurel Sandulescu

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# **Frontier Topics In Nuclear Physics**

**Werner Scheid, Aurel Sandulescu** 

#### **Frontier Topics In Nuclear Physics:**

Frontier Topics in Nuclear Physics Werner Scheid, Aurel Sandulescu, 2012-12-06 This volume contains the lectures and contributions presented at the NATO Advanced Study Institute ASI on Frontier Topics in Nuclear Physics held at Predeal in Romania from 24 August to 4 September 1993 The ASI stands in a row of 23 Predeal Summer Schools organized by the Institute of Atomic Physics Bucharest in Predeal or Poiana Brasov during the last 25 years The main topics of the ASI were cluster radioactivity fission and fusion the production of very heavy elements nuclear structure described with microscopic and collective models weak interaction and double beta decay nuclear astrophysics and heavy ion reactions from low to ultrarelativistic energies The content of this book is ordered according to these topics The ASI started with a lecture by Professor Greiner on the Present and future of nuclear physics showing the most important new directions of research and the interdisciplinary relations of nuclear physics with other fields of physics This lecture is printed in the first chapter of the Frontier 96: Nuclear Physics Frontiers With Electroweak Probes - Proceedings Of Xv Rcnp Osaka International book Symposium Hiroshi Toki, Mamoru Fujiwara, Tadafumi Kishimoto, 1996-10-25 Frontiers In Nuclear Physics - Proceedings Of The 11th Physics Summer School Serdar Kuyucak, 1999-09-30 This proceedings volume presents current developments in nuclear physics which are driven by new experimental facilities e g radioactive ion beams CEBAF RHIC as well as by cross fertilization with astrophysics and particle physics It starts at an introductory level and builds up to a stage where the reader can appreciate the challenges of current research fields It is suitable for both theorists and experimentalists Fundamental Physics and Physics Education Research Burra G. Sidharth, Marisa Michelini, Lorenzo Santi, 2014-03-20 In a knowledge based society research into fundamental physics plays a vital role not only in the enhancement of human knowledge but also in the development of new technology that affects everyday life The international symposium series Frontiers of Fundamental Physics FFP regularly brings together eminent scholars and researchers working in various areas in physics to exchange expertise ideas results and new research perspectives The twelfth such symposium FFP12 took place at the University of Udine Italy and covered diverse fields of research astrophysics high energy physics and particle physics theoretical physics gravitation and cosmology condensed matter physics statistical physics computational physics and mathematical physics Importantly it also devoted a great deal of attention to physics education research teacher training in modern physics and popularization of physics The high scientific level of FFP12 was guaranteed by the careful selection made by scientific coordinators from among 250 submissions from 28 countries across the world During the three days of the conference nine general talks were delivered in plenary sessions 29 invited talks were given in specific topic areas and 59 oral presentations were made This book presents a selection of the best contributions at FFP12 with the aim of acquainting readers with the most important recent advances in fundamental physics and in physics education and teacher development International Nuclear Physics Conference 1995: Nuclear Physics - At The Frontiers Of Knowledge Jincheng Xu, Zuxun

Sun, 1996-05-11 The International Nuclear Physics Conference held every three years is the most pretigeous meeting of nuclear physics Its programme covers the whole range of nuclear physics and some application such as relativistic nuclear collisions mesons and baryons in nuclei hadron structure and quarks in nuclei formation and properties of hot nuclei nuclear reactions at low and intermediate energy nuclear structure radioactive nuclear beams nuclear astrophysics fundamental interaction and symmetries experimental technique and new facilities and applied nuclear physics. The proceedings is a collection of all invited talks on the plenary and parallel sessions Presented by the leading scientists in their fields these talks summarized the most recent progress and future prospects in all the aspects of nuclear physics **Heavy Elements And** Related New Phenomena (In 2 Volumes) Walter Greiner, Raj Kumar Gupta, 1999-06-17 This book reviews recent developments in the field of superheavy elements and the related phenomena of fission cluster radioactivity and drip line physics Both the experimental and theoretical aspects are dealt with in detail For the production of new elements in the laboratory the process of cold compound nucleus formation is found to be most favorable both theoretically and experimentally However experimentally hot fusion of nuclei has also been used Both the physical and chemical methods of synthesizing new elements are discussed The theoretical approaches considered here are those of the quantum mechanical fragmentation theory the self consistent Hartree Fock theory and the relativistic mean field theory Fission a process inverse to the fusion of two nuclei is also observed to be most favourably a cold phenomenon Other important results are bi modal fission and high n multiplicity fission which leads to the hyperdeformed scission mode Cluster radioactivity is discussed both as a heavy cluster emission process and as super asymmetric fission. The theory as well as the present experimental status are reviewed Physics at drip lines is interesting not only for their structural properties but also for their use in the fusion of two nuclei both aspects are discussed Collective Motion And Nuclear Dynamics Apolodor A Raduta, D S Delion, Ioan I Ursu, 1996-02-29 These proceedings contain selected topics covering various fields of collective motion and nuclear dynamics ranging from low to high energies from nuclear structure to reaction mechanisms from regular stable to chaotic systems and from fragmentation to fusion Several ways of investigating the nuclear systems are presented electron scattering radioactive beams fragmenting projectiles beta and double beta decays and cluster emission Their behaviour under some extreme situations such as superdeformation high spin states high temperature and relativisitic energy is described within various theoretical formalisms Handbook of Radioactivity Analysis Michael F. L'Annunziata, 2012-09-01 The updated and much expanded 3e of the Handbook of Radioactivity Analysis is an authoritative reference providing the principles practical techniques and procedures for the accurate measurement of radioactivity from the very low levels encountered in the environment to higher levels measured in radioisotope research clinical laboratories biological sciences radionuclide standardization nuclear medicine nuclear power and fuel cycle facilities and in the implementation of nuclear forensic analysis and nuclear safeguards. The book describes the basic principles of radiation detection and measurement and the

preparation of samples from a wide variety of matrices assists the investigator or technician in the selection and use of appropriate radiation detectors and presents state of the art methods of analysis Fundamentals of radiation properties radionuclide decay the calculations involved and methods of detection provide the basis for a thorough understanding of the analytical procedures The Handbook of Radioactivity Analysis 3e is suitable as a teaching text for university and professional training courses The only comprehensive reference that describes the principles of detection and practical applications of every type of radioactivity detector currently used The new 3e is broader in scope with revised and expanded chapters new authors and seven new chapters on Alpha Spectrometry Radionuclide Standardization Radioactive Aerosol Measurements Environmental Radioactivity Monitoring Marine Radioactivity Analysis Nuclear Forensic Analysis and Analytical Techniques in Nuclear Safeguards Discusses in detail the principles theory and practice applied to all types of radiation detection and measurement making it useful for both teaching and research The Long-Lasting Quest for Nuclear Interactions: The Past, the Present and the Future Laura Elisa Marcucci, 2021-01-05 **Emerging Frontiers in Nonlinear Science** Panayotis G. Kevrekidis, Jesús Cuevas-Maraver, Avadh Saxena, 2020-05-29 This book explores the impact of nonlinearity on a broad range of areas including time honored fields such as biology geometry and topology but also modern ones such as quantum mechanics networks metamaterials and artificial intelligence The concept of nonlinearity is a universal feature in mathematics physics chemistry and biology and is used to characterize systems whose behavior does not amount to a superposition of simple building blocks but rather features complex and often chaotic patterns and phenomena Each chapter of the book features a synopsis that not only recaps the recent progress in each field but also charts the challenges that lie ahead This interdisciplinary book presents contributions from a diverse group of experts from various fields to provide an overview of each field's past present and future It will appeal to both beginners and seasoned researchers in nonlinear science numerous areas of physics optics quantum physics biophysics and applied mathematics ODEs PDEs dynamical systems machine learning as well as engineering 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 **Quantum** Field Theory and String Theory L. Baulieu, Vladimir Dotsenko, Vladimir Kazakov, Paul Windey, 2012-12-06 The Cargese Workshop Quantum Field Theory and String Theory was held from May 10 to May 21 1993 The broad spectrum of the work presented at the Workshop was the reflection of a time of intensive search for new ways of solving some of the most fun damental problems in string theory quantum gravity and non perturbative field theory A number of talks indicated the emergence of new promising domains of investigation It is this very diversity of topics which in our opinion represents one of the most attractive features of the present volume which we hope will provide a good orientation in the abundant flow of ideas and publications in modern quantum field theory Many contributions to the present proceedings are concerned with two di mensional quantum field theory. The continuous advances in the domain of two dimensional integrable theories on the lattice as well as in the continuum including conformal field theories Liouville field theory and matrix models of two dimensional quantum gravity are very well represented Other papers address physically realistic and therefore very complicated problems like de veloped turbulence the Hofstadter problem higher dimensional gravity and phenomenological strings A new elegant class of topological field theories is presented New ideas in the string representation of multicolor quantum chromo dynamics were widely discussed at the Workshop more particularly the example of the exactly solvable two dimensional case Frontiers Topics in Nuclear Structure ,1993 **Density Functional Theory** Eberhard K.U. Gross, Reiner M. Dreizler, 2013-06-29 The first Nato Advanced Studies Institute entirely devoted to density functional theory was held in Portugal in September 1983 The proceedings of this School publis hed in early 1985 is still used as a standard reference covering the basic development of the theory and applications in atomic molecular solid state and nuclear physics Ho wever astonishing progress has been achieved in the intervening years. The foundations of the theory have been extended to cover excited states and time dependent problems more fully density functional theory of classical liquids and superconducting systems has been addressed and extensions to relativistic that is field theoretical systems as well as a more thorough discussion of magnetic field problems have been presented In addition new functionals have been devised for instance under the heading of ge neralised gradient expansions and the number of applications in the traditional fields has steadily increased in particular in chemistry Applications in new fields as for instance the structure of atomic clusters and the marriage of density functional theory with molecular dynamics and simulated annealing have provided additional impetus to the field of density functional theory From Newton to Chaos Archie E. Roy, B.A. Steves, 2013-06-29 The reader will find in this volume the Proceedings of the NATO Advanced Study Institute held in Cortina d Ampezzo Italy between July 25 and August 6 1993 under the title From Newton to Chaos Modem Techniques for Understanding and Coping With Chaos in N Body Dynamical Systems This institute was the latest in a series of meetings held every three years from 1972 to 1990 in dynamical astronomy theoretical mechanics and celestial mechanics The proceedings from these institutes have been well

received in the international community of research workers in these disciplines. The present institute was well attended with 15 series of lectures being given by invited speakers in addition some 40 presentations were made by the other participants The majority of these contributions are included in these proceedings. The all pervading influence of chaos in dynamical systems of even a few variables has now been universally recognised by researchers a recognition forced on us by our ability using powerful computer hardware and software to tackle dynamical problems that until twenty five years ago were intractable Doubtless it was felt by many that these new techniques provided a break through in celestial mechanics and its related disciplines And so they were Frontier Topics in Nuclear and Astrophysics - Graduate Lectures, Ziemowid Sujkowski, Grażyna Szeflińska, 1992-04-23 This graduate research level volume covers a range of the issues in nuclear and astrophysics Aimed at graduates entering the field this will also be a valuable reference for established researchers A volume that libraries covering nuclear physics and astrophysics should not be without Literature 1992, Part 1 Astronomisches Recheninstitut, 2013-11-11 Astronomy and Astrophysics Abstracts appearing twice a year has become one of the fundamental publications in the fields of astronomy astrophysics and neighbouring sciences It is the most important English language abstracting journal in the mentioned branches The abstracts are classified under more than a hundred subject categories thus permitting a guick survey of the whole extended material The AAA is a valuable and important publication for all students and scientists working in the fields of astronomy and related sciences As such it represents a necessary ingredient of any astronomical library all over the world The 4th International Conference on Exotic Nuclei and Atomic Masses Carl J. Gross, Witold Nazarewicz, Krzysztof P. Rykaczewski, 2007-12-10 The International Conference on Exotic Nuclei and Atomic Masses ENAM has gained the status of the premier meeting for the physics of nuclei far from stability The selected and refereed papers presenting the main results constitute valuable proceedings that offer everyone working in this field an authoritative and comprehensive source of reference Hamiltonian Mechanics John Seimenis, 2013-11-11 This volume contains invited papers and contributions delivered at the International Conference on Hamiltonian Mechanics Integrability and Chaotic Behaviour held in Tornn Poland during the summer of 1993 The conference was supported by the NATO Scientific and Environmental Affairs Division as an Advanced Research Workshop In fact it was the first scientific conference in all Eastern Europe supported by NATO The meeting was expected to establish contacts between East and West experts as well as to study the current state of the art in the area of Hamiltonian Mechanics and its applications I am sure that the informal atmosphere of the city of Torun the birthplace of Nicolaus Copernicus stimulated many valuable scientific exchanges The first idea for this enference was carried out by Prof Andrzej J Maciejewski and myself more than two years ago during his visit in Greece It was planned for about forty well known scientists from East and West At that time participation of a scientist from Eastern Europe in an Organising Committee of a NATO Conference was not allowed But always there is the first time Our plans for such a small conference as a first attempt in the new European situation the

Europe without borders quickly passed away The names of our invited speakers authorities in their field were a magnet for many colleagues from all over the world *Novel ideas for accelerators, particle detection and data challenges at future colliders* Alessandro Tricoli, Patrizia Azzi, Petra Merkel, Vladimir Shiltsev, 2023-07-21

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