

ADVANCES IN NUCLEAR PHYSICS

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**Edited by
Michel Baranger
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VOLUME 8

Advances In Nuclear Physics Vol

Michel Baranger, Erich Vogt



Advances In Nuclear Physics Vol :

Advances in Nuclear Physics J.W. Negele, Erich W. Vogt, 2012-12-06 Nuclear many body theory provides the foundation for understanding and exploiting the new generation of experimental probes of nuclear structure that are now becoming available. The twentieth volume of *Advances in Nuclear Physics* is thus devoted to two major theoretical chapters addressing two fundamental issues: understanding single particle properties in nuclei and the consistent formulation of a relativistic theory appropriate for hadronic physics. The long standing problem of understanding single particle behavior in a strongly interacting nuclear system takes on new urgency and significance in the face of detailed measurements of the nuclear spectral function in $e e p$ experiments. In the first chapter Mahaux and Sartor confront head on the ambiguities in defining single particle properties and the limitations in calculating them microscopically. This thoughtful chapter provides a thorough pedagogical review of the relevant aspects of many body theory and of previous treatments in the nuclear physics literature. It also presents the author's own vision of how to properly formulate and understand single particle behavior based on the self energy or mass operator. Their approach provides a powerful unified description of the nuclear mean field that covers negative as well as positive energies and consistently fills in that information that cannot yet be calculated reliably microscopically by a theoretically motivated phenomenology. Particular emphasis is placed upon experiment both in the exhaustive comparisons with experimental data and in the detailed discussion of the relations of each of the theoretical quantities defined in the chapter to physical observables.

Advances in Nuclear Physics Michel Baranger, Erich Vogt, 2012-12-06 The aim of *Advances in Nuclear Physics* is to provide review papers which chart the field of nuclear physics with some regularity and completeness. We define the field of nuclear physics as that which deals with the structure and behavior of atomic nuclei. Although many good books and reviews on nuclear physics are available none attempts to provide a coverage which is at the same time continuing and reasonably complete. Many people have felt the need for a new series to fill this gap and this is the ambition of *Advances in Nuclear Physics*. The articles will be aimed at a wide audience from research students to active research workers. The selection of topics and their treatment will be varied but the basic viewpoint will be pedagogical. In the past two decades the field of nuclear physics has achieved its own identity occupying a central position between elementary particle physics on one side and atomic and solid state physics on the other. Nuclear physics is remarkable both by its unity which it derives from its concise boundaries and by its amazing diversity which stems from the multiplicity of experimental approaches and from the complexity of the nucleon-nucleon force. Physicists specializing in one aspect of this strongly unified yet very complex field find it imperative to stay well informed of the other aspects. This provides a strong motivation for a comprehensive series of reviews.

Advances in Nuclear Physics John Negele, 2013-12-19 Analytic Insights into Intermediate Energy Hadron-Nucleus Scattering by R D Amado presents a review of optical diffraction leading into discussions of elastic scattering, single and multistep inelastic scattering, spin observables and

directions indicated for further research Recent Developments in Quasi Free Nucleon Nucleon Scattering by P Kitching W J McDonald Th A J Maris and C A Z Vascon cellos opens with a comprehensive review of the theory going on to detail frontier research advances in spin dependence in p 2p scattering isospin dependence and other quasi free reactions The final chapter Energetic Particle Emission in Nuclear Reactions by D H Baal explores new findings regarding direct interactions in the nucleus thermalization and multiple scattering in nucleon emission light fragment formation and production of intermediate mass fragments A valuable and instructive trio of papers Volume 15 of Advances in Nuclear Physics will be of interest to nonspecialists as well as specialists in the fields of nuclear physics high energy physics and theoretical physics J W NEGELE E VoGT ix CONTENTS Chapter 1 ANALYTIC INSIGHTS INTO INTERMEDIATE ENERGY HADRON NUCLEUS SCATTERING R D Amado I Introduction Advances in Nuclear Physics Michel Baranger, Erich Vogt, 2013-09-10 *Advances in Nuclear Physics* J.W. Negele, Erich W. Vogt, 2012-12-06 The two comprehensive reviews in this volume address two fundamental problems that have been of long standing interest and are the focus of current effort in contemporary nuclear physics exploring experimentally the density distributions of constituents within the nucleus and understanding nuclear structure and interactions in terms of hadronic degrees of freedom One of the major goals of experimental probes of atomic nuclei has been to discover the spatial distribution of the constituents within the nucleus As the energy and specificity of probes have increased over the years the degree of spatial resolution and ability to select specific charge current spin and isospin densities have correspondingly increased In the first chapter Batty Friedman Gils and Rebel provide a thorough review of what has been learned about nuclear density distributions using electrons muons nucleons antinucleons pions alpha particles and kaons as probes This current understanding and the limitations thereof are crucial in framing the questions that motivate the next generation of experimental facilities to study atomic nuclei with electromagnetic and hadronic probes The second chapter by Machleidt reviews our current understanding of nuclear forces and structure in terms of hadronic degrees of freedom that is in terms of mesons and nucleons Such an understanding in terms of hadronic variables is crucial for two reasons First since effective hadronic theories are quite successful in describing a broad range of phenomena in low energy nuclear physics and there are clear experimental signatures of meson exchange currents in nuclei we must understand their foundations *Advances in Nuclear Physics* Michel Baranger, Erich Vogt, 2013-12-19 With the appearance of Volume 3 of our series the review articles themselves can speak for the nature of the series Our initial aim of charting the field of nuclear physics with some regularity and completeness is hopefully beginning to be established We are greatly indebted to the willing cooperation of many authors which has kept the series on schedule By means of the stream technique on which our series is based in which articles emerge from a flow of future articles at the convenience of the authors the articles appear in this volume without any special coordination of topics The topics range from the interaction of pions with nuclei to direct reactions in deformed nuclei There is a great number of additional topics which the series hopes to include Some of these are

indicated by our list of future articles Some have so far not appeared on our list because the topics have been reviewed recently in other channels Much of our series has originated from the suggestions of our colleagues We continue to welcome such aid and we continue to need particularly more suggestions about experimentalists who might write articles on experimental topics *Advances in Nuclear Physics* John Negele, 2012-07-02 **Advances in Nuclear Physics** Michel Baranger, Erich Vogt, 1978-01-07 The present volume reaffirms nuclear physics as an experimental science since the authors are primarily experimentalists and since the treatment of the topics might be said to be experimental This is no reflection on the theoretical competence of any of the authors The subject of high spin phenomena in heavy nuclei has grown much beyond the idea of backbending which gave such an impetus to its study five years ago It is a rich new field to which Lieder and Ryde have contributed greatly The article Valence and Doorway Mechanisms in Resonance Neutron Capture is in contradistinction an article pertaining to one of the oldest branches of nuclear physics and it brings back one of our previous authors The Doppler shift method reviewed by Alexander and Forster is one of the important new experimental techniques that emerged in the previous decade This review is intended deliberately to describe thoroughly a classic technique whose elegance epitomizes much of the fascination which nuclear physics techniques have held for a generation of scientists This volume concludes the work on the *Advances in Nuclear Physics* series of one of the editors M Baranger whose judgment and style characterize that which is best in the first ten volumes Many of our readers and most of our authors will be grateful for the high standards which marked his contributions and which often elicited extra labor from the many authors of the series

Advances in Nuclear Physics Michel Baranger, 2013-11-21 The three articles of the present volume clearly exhibit a wide scope of articles which is the aim of this series The article by Kahana and Baltz lies in the main flow of the large stream of work currently in progress with heavy ion accelerators A related article by Terry Fortune on Multinuclear Transfer Reactions with Heavy Ions is scheduled to appear in the next volume The article by Whitehead Watt Cole and Morrison pertains to the nuclear shell model for which a number of articles have appeared in our series Our very first volume had an article on how SU 3 techniques can with great elegance enable one to cope with the sizable number of states within a configuration But the actual nuclear force is not exactly that yielded by the elegant techniques and so interest continued in dealing with the large number of states by brute force Then the Glasgow school of Whitehead et al discovered that mathematical techniques existed for coping more simply with the lowest eigenvalues of large matrices The present article aims generally to make accessible to nuclear physicists the methods developed at Glasgow The final article by Baer Crowe and Truol on radiative pion capture describes a new field of importance because of the advent of the meson factories More and more pions and muons will become standard tools in nuclear physics *Advances in Nuclear Physics* Michel Baranger, Erich Vogt, 2012-12-06 In both the present volume of *Advances in Nuclear Physics* and in the next volume which will follow in a few months time we have stretched our normal pattern of reviews by including articles of more major proportions than any we have published before

As a result we have only three review articles in Volume 5. From the beginning of this series it has been our aim as editors to achieve variation in the scope, style and length of individual articles sufficient to match the needs of the individual topic rather than to restrain authors within rigid limits. It has not been our experience that this flexibility has led to unnecessary exuberance on the part of the authors. We feel that the major articles now entering the series are entirely justified. The article by Professor Delves on Variational Techniques in the Nuclear Three Body Problem is an authoritative definitive article on a subject which forms a cornerstone of nuclear physics. If we start with two body interactions then the three nucleon system is perhaps the only many nucleon system whose exact description may lie within the scope of human ingenuity. In recent years some new techniques of scattering theory originating mostly in particle physics have led to a great deal of new interest in the nuclear three body problem. In this series we have had two articles by Mitra and by Duck on the new approaches.

Advances in Nuclear Physics J.W. Negele, Erich W. Vogt, 2006-04-18. This volume of *Advances in Nuclear Physics* addresses two very different frontiers of contemporary nuclear physics: one highly theoretical and the other solidly phenomenological. The first article by Matthias Burkardt provides a pedagogical overview of the timely topic of light front quantization. Although introduced decades ago by Dirac, light front quantization has been a central focus in theoretical and particle physics in recent years for two major reasons. The first, as discussed in detail by Burkardt, is that light cone coordinates are the natural coordinates for describing high energy scattering. The wealth of data in recent years on nucleon and nucleus structure functions from high energy lepton and hadron scattering thus provides a strong impetus for understanding QCD on the light cone. Second, as theorists have explored light front quantization, a host of deep and intriguing theoretical questions have arisen associated with the triviality of the vacuum, the role of zero modes, rotational invariance and renormalization. These issues are so compelling that they are now intensively investigated on their own merit independent of the particular application to high energy scattering. This article provides an excellent introduction and overview of the motivation from high energy scattering, an accessible description of the basic ideas, an insightful discussion of the open problems and a helpful guide to the specialized literature. It is an ideal opportunity for those with a spectator's acquaintance to develop a deeper understanding of this important field.

Advances in Nuclear Physics J.W. Negele, Erich W. Vogt, 2005-12-27. This volume contains two major articles: one providing a historical retrospective of one of the great triumphs of nuclear physics in the twentieth century and the other providing a didactic introduction to one of the quantitative tools for understanding strong interactions in the twenty-first century. The article by Igal Talmi on Fifty Years of the Shell Model: the Quest for the Effective Interaction pertains to a model that has dominated nuclear physics since its infancy and that developed with astonishing results over the next five decades. Talmi is uniquely positioned to trace the history of the Shell Model. He was active in developing the ideas at the shell model's inception; he has been central in most of the subsequent initiatives which expanded, clarified and applied the shell model and he has remained active in the field to the present time.

Wisely he has chosen to restrict his review to the dominating issue the choice of the effective interactions among valence nucleons that determine the properties of low lying nuclear energy levels The treatment of the subject is both bold and novel for our series The ideas pertaining to the effective interaction for the shell model are elucidated in a historical sequence

Advances in Nuclear Physics Michel Baranger, Erich Vogt, 2013-03-09 The present volume reaffirms nuclear physics as an experimental science since the authors are primarily experimentalists and since the treatment of the topics might be said to be experimental This is no reflection on the theoretical competence of any of the authors The subject of high spin phenomena in heavy nuclei has grown much beyond the idea of backbending which gave such an impetus to its study five years ago It is a rich new field to which Lieder and Ryde have contributed greatly The article Valence and Doorway Mechanisms in Resonance Neutron Capture is in contradistinction an article pertaining to one of the oldest branches of nuclear physics and it brings back one of our previous authors The Doppler shift method reviewed by Alexander and Forster is one of the important new experimental techniques that emerged in the previous decade This review is intended deliberately to describe thoroughly a classic technique whose elegance epitomizes much of the fascination which nuclear physics techniques have held for a generation of scientists This volume concludes the work on the *Advances in Nuclear Physics* series of one of the editors M Baranger whose judgment and style characterize that which is best in the first ten volumes Many of our readers and most of our authors will be grateful for the high standards which marked his contributions and which often elicited extra labor from the many authors of the series

Advances in Nuclear Physics J.W. Negele, Erich W. Vogt, 2012-12-06 The quest for many body techniques and approximations to describe the essential physics of strongly interacting systems with many degrees of freedom is one of the central themes of contemporary nuclear physics The three articles in this volume describe advances in this quest in three different areas of nuclear many body physics multi quark degrees of freedom in nucleon nucleon interactions and light nuclei multinucleon clusters in many nucleon wave functions and reactions and the nuclear shell model In each case the common issues arise of identifying the relevant degrees of freedom truncating those that are inessential formulating tractable approximations and judiciously invoking phenomenology when it is not possible to proceed from first principles Indeed the parallels between the different applications are often striking as in the case of the similarities in the treatment of clusters of quarks in nucleon nucleon interactions and clusters of nucleons in nuclear reactions and the central role of the resonating group approximation in treating both Despite two decades of effort since the experimental discovery of quarks in nucleons we are still far from a derivation of nucleon structure and nucleon nucleon interactions directly from quantum chromodynamics

Advances in Nuclear Physics J.W. Negele, Erich Vogt, 1996-02-29 This volume presents five pedagogical articles spanning frontier developments in contemporary nuclear physics ranging from the physics of a single nucleon to nucleosynthesis in the Big Bang Although the objectives of *Advances in Nuclear Physics* have been and will continue to be quite distinct from those of conventional conference proceedings the articles in this volume are carefully

edited and expanded manuscripts based on an outstanding series of lectures delivered at the VI J A Swieca Summer School in Brazil Starting at the smallest scale the first article by Dan Olof Riska addresses realistic chiral symmetric models of the nucleon Since the analytic tools are not yet developed to solve nonperturbative QCD directly significant effort has been devoted in recent years to the development of models which incorporate and are constrained by the approximate chiral symmetry manifested in QCD This article provides a clear introduction to chiral symmetry and the Skyrme model and discusses the Skyrme model's relation to the chiral bag model its extensions and its application to nucleons and hyperons

Advances in Nuclear Physics J. L. Friar, A. Gal, J. W. Negele, Donald W. L. Sprung, M. K. Srivastava, 2013-11-21 Review articles on three topics of considerable current interest make up the present volume The first on A hypernuclei was solicited by the editors in order to provide nuclear physicists with a general description of the most recent developments in a field which this audience has largely neglected or perhaps viewed as a novelty in which a bizarre nuclear system gave some information about the lambda nuclear interaction That view was never valid The very recent developments reviewed here particularly those pertaining to hypernuclear excitations and the strangeness exchange reactions emphasize that this field provides important information about the models and central ideas of nuclear physics The off shell behavior of the nucleon nucleon interaction is a topic which was at first received with some embarrassment abuse and neglect but it has recently gained proper attention in many nuclear problems Interest was first focused on it in nuclear many body theory but it threatened nuclear physicists comfortable feeling about nonrelativistic potential theory and many no doubt hoped that it would remain merely an esoteric diversion within the many body cult In the editors opinion this subject is now eminently respectable and a review of it indeed timely The third topic nuclear charge distributions is one which almost every nuclear physicist believed had been well in hand for some years

Advances in Nuclear Physics J.W. Negele, Erich W. Vogt, 2012-12-06 Recent advances in three areas of nuclear physics are addressed in this volume The theory of the ground state of matter is fundamental to many areas of physics and in particular is crucial to a microscopic understanding of nuclear physics All conclusions concerning the relevance of mesonic nuclear isobar and quark degrees of freedom to nuclear structure are necessarily subject to limitations in one's ability to accurately solve the nuclear many body problem with static two body interactions Thus it is particularly significant that in recent years great advances have been made in the variational theory of the ground state of zero temperature infinite matter The first article presents a pedagogical treatment of these advances and surveys computational results for a variety of model and physical systems The second article reviews recent progress in determining nuclear transition densities from inelastic electron scattering In the past detailed knowledge of the charge distributions in nuclear ground states obtained from inverting elastic electron scattering data has proven extremely valuable

Advances in Nuclear Physics J.W. Negele, Erich W. Vogt, 2006-04-18 The four articles of the present volume address very different topics in nuclear physics and indeed encompass experiments at very different kinds of experimental

facilities The range of interest of the articles extends from the nature of the substructure of the nucleon and the deuteron to the general properties of the nucleus including its phase transitions and its rich and unexpected quantal properties The first article by Fillipone and Ji reviews the present experimental and theoretical situation pertaining to our knowledge of the origin of the spin of the nucleon Until about 20 years ago the half integral spin of the neutron and proton was regarded as their intrinsic property as Dirac particles which were the basic building blocks of atomic nuclei Then with the advent of the Standard Model and of quarks as the basic building blocks the substructure of the nucleon became the subject of intense interest Initial nonrelativistic quark models assigned the origin of nucleon spin to the fundamental half integral spin of its three constituent quarks leaving no room for contributions to the spin from the gluons associated with the interacting quarks or from the orbital angular momentum of either gluons or quarks That naive understanding was shaken about fifteen years ago by experiments involving deep inelastic scattering of electrons or muons from nucleons

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Michel Baranger, Erich Vogt, 2012-10-20 The aim of *Advances in Nuclear Physics* is to provide review papers which chart the field of nuclear physics with some regularity and completeness We define the field of nuclear physics as that which deals with the structure and behavior of atomic nuclei Although many good books and reviews on nuclear physics are available none attempts to provide a coverage which is at the same time continuing and reasonably complete Many people have felt the need for a new series to fill this gap and this is the ambition of *Advances in Nuclear Physics* The articles will be aimed at a wide audience from research students to active research workers The selection of topics and their treatment will be varied but the basic viewpoint will be pedagogical In the past two decades the field of nuclear physics has achieved its own identity occupying a central position between elementary particle physics on one side and atomic and solid state physics on the other Nuclear physics is remarkable both by its unity which it derives from its concise boundaries and by its amazing diversity which stems from the multiplicity of experimental approaches and from the complexity of the nucleon-nucleon force Physicists specializing in one aspect of this strongly unified yet very complex field find it imperative to stay well informed of the other aspects This provides a strong motivation for a comprehensive series of reviews

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