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# **Nucleon Correlations in Nuclei**



**Springer-Verlag**

# Nucleon Correlations In Nuclei

**Академия наук СССР**



## **Nucleon Correlations In Nuclei:**

Nucleon Correlations in Nuclei Anton N. Antonov, Peter E. Hodgson, Ivan Z. Petkov, 2012-12-06 In recent years there has been growing interest in the nucleon nucleon correlations inside nuclei. In many respects the motions of the nucleons can be very well described by an overall mean field so that the motion of each nucleon is governed by the mean field due to all the other nucleons. This concept underlies the Fermi gas, Hartree-Fock and shell models and has enabled a range of nuclear properties to be calculated often to surprising accuracy. It gradually became clear however that these mean field models are limited by the effects due to the very strong interactions between the nucleons that occur at short distances: these are the short range correlations. They are responsible for instance for the high momentum components in the nucleon momentum distribution and prevent the simultaneous description of the nuclear density and momentum distributions by the same mean field. It thus becomes necessary to develop methods for including the effects of nucleon correlations in nuclei and these are the main subject of this book. Some related problems of nuclear structure were discussed in an earlier book by the same authors: *Nucleon Momentum and Density Distributions in Nuclei* Clarendon Press Oxford 1988. The main aim of that book was to study the effects of nucleon nucleon correlations both short range and tensor on the nucleon momentum distribution which is particularly sensitive to these correlations and on the nucleon density distribution. **Nucleon Correlations in**

**Nuclei** Anton N. Antonov, Peter E. Hodgson, Ivan Z. Petkov, 1993-06-25 *Hard Probes of Short-range Nucleon-nucleon Correlations*, 2012 The strong interaction of nucleons at short distances leads to a high momentum component in the nuclear wave function associated with short range correlations between nucleons. These short range high momentum structures in nuclei are one of the least well understood aspects of nuclear matter relating to strength outside of the typical mean field approaches to calculating the structure of nuclei. While it is difficult to study these short range components, significant progress has been made over the last decade in determining how to cleanly isolate short range correlations in nuclei. We have moved from asking if such structures exist to mapping out their strength in nuclei and studying their microscopic structure. A combination of several different measurements made possible by high luminosity and high energy accelerators coupled with an improved understanding of the reaction mechanism issues involved in studying these structures has led to significant progress and provided significant new information on the nature of these small, highly excited structures in nuclei. We review the general issues related to short range correlations, survey recent experiments aimed at probing these short range structures and lay out future possibilities to further these studies. **Low-energy Pion Double Charge Exchange and**

**Nucleon-nucleon Correlations in Nuclei**, 1988 Recent measurements of pion double charge exchange (DCX) at energies 20 to 70 MeV are providing a new means for studying nucleon nucleon correlations in nuclei. At these energies the nucleus is relatively transparent, allowing simpler theoretical models to be used in interpreting the data and leading to a clearer picture. Also, the contribution to DCX of sequential charge exchange scattering through the intermediate analog state is suppressed.

near 50 MeV and transitions through non analog intermediate states become very important Recent theoretical studies by several groups have shown that while transitions through the analog route involve relatively long nucleon nucleon distances those through non analog intermediate states obtain nearly half their strength from nucleon pairs with less than 1 fermi separation Thus DCX near 50 MeV is an excellent way to study short range nucleon nucleon correlations Data has been obtained for double isobaric analog state DIAS transitions on  $^{14}\text{C}$   $^{18}\text{O}$   $^{26}\text{Mg}$  and a number of nuclei in the  $f7/2$  shell including sup 42 44 48 Ca primarily at 35 and 50 MeV Additional data for non analog ground state transitions has also been obtained for  $^{12}\text{C}$  These data are consistent with the two amplitude theoretical models where the two amplitudes represent scattering through analog and through non analog intermediate states Calculations based on shell model correlations explain the general trends of the data Preliminary new data on the forward angle energy dependence of the DIAS and g s transitions for sup 42 44 48 Ca from 25 to 70 MeV is presented here and the current theoretical picture based upon this data is reviewed 26 refs 31 figs 4 tabs

**Modern Advances in Direct Reactions for Nuclear Structure** Alan Wuosmaa, Benjamin Kay, Sean J. Freeman, 2025-08-11 The study of nuclei far away from stability with large imbalances between the number of protons and neutrons is a central topic in modern nuclear physics New experimental facilities provide access to nuclei that were previously inaccessible revealing new and unexpected behaviors Older models of nuclear structure fail to explain the properties of such nuclei spurring major new theoretical developments Key to testing these new theories are new data Direct reactions have for decades supplied the underpinnings of nuclear structure models The necessity to use radioactive beams from the new facilities introduces several technical difficulties including experiment count rates and complicated kinematics that adversely affect experimental resolutions Researchers have leveraged new developments in detector and spectrometer technology to confront these challenges that will drive studies in the field into the next decade and beyond Nuclear Science Abstracts ,1974 **Physics Division Annual Report** Argonne National Laboratory. Physics Division, 2001

Scientific and Technical Aerospace Reports ,1969 *Energy Research Abstracts* ,1989 **Perspectives In Hadronic Physics - Proceedings Of The Conference** Sigfrido Boffi, Mauro Giannini, Claudio Ciofi Degli Atti, 1997-12-16 *Handbook of Nuclear Physics* Isao Tanihata, Hiroshi Toki, Toshitaka Kajino, 2023-09-04 This handbook is a comprehensive systematic source of modern nuclear physics It aims to summarize experimental and theoretical discoveries and an understanding of unstable nuclei and their exotic structures which were opened up by the development of radioactive ion RI beam in the late 1980s The handbook comprises three major parts In the first part the experiments and measured facts are well organized and reviewed The second part summarizes recognized theories to explain the experimental facts introduced in the first part Reflecting recent synergistic progress involving both experiment and theory the chapters both parts are mutually related The last part focuses on cosmo nuclear physics one of the mainstream subjects in modern nuclear physics Those comprehensive topics are presented concisely Supported by introductory reviews all chapters are designed to present their topics in a

manner accessible to readers at the graduate level The book therefore serves as a valuable source for beginners as well helping them to learn modern nuclear physics Nuclear Methods and the Nuclear Equation of State Marcello Baldo,1999 The theoretical study of the nuclear equation of state EOS is a field of research which deals with most of the fundamental problems of nuclear physics This book gives an overview of the present status of the microscopic theory of the nuclear EOS Its aim is essentially twofold first to serve as a textbook for students entering the field by covering the different subjects as exhaustively and didactically as possible second to be a reference book for all researchers active in the theory of nuclear matter by providing a report on the latest developments Special emphasis is given to the numerous open problems existing at present and the prospects for their possible solutions The general framework of the different approaches presented in the book is the meson theory of nuclear forces where no free parameter is introduced and the many body treatment of nucleon nucleon correlations The ultimate hope of this world wide effort is the understanding of the structure of nuclear matter both in the ground state and at finite temperature The main audience addressed is the community of theoretical nuclear physicists but nuclear experimentalists and astrophysicists will also find in the book an extensive amount of material of direct interest for their everyday work particularly for those studying heavy ion collisions where the nuclear EOS is of special relevance Finally theoretical physicists working on elementary particle theory could find in the book some stimulating ideas and problems directly related to their field Bulletin of the Academy of Sciences of the USSR. Академия наук СССР,1990

Pion-nucleus Double Charge Exchange - 2nd Lampf Workshop William R Gibbs,Michael J Leitch,1990-09-24 What do you associate with chemistry Explosions innovative materials plastics pollution The public s confused and contradictory conception of chemistry as basic science industrial producer and polluter contributes to what we present in this book as chemistry s image as an impure science Historically chemistry has always been viewed as impure both in terms of its academic status and its role in transforming modern society While exploring the history of this science we argue for a characteristic philosophical approach that distinguishes chemistry from physics This reflection leads us to a philosophical stance that we characterise as operational realism In this new expanded edition we delve deeper into the questions of properties and potentials that are so important for this philosophy that is based on the manipulation of matter rather than the construction of theories a Electron and Photon Impact Ionisation and Related Topics 2002 L.U Ancarani,2003-05-01 Electron and Photon Impact Ionisation and Related Topics 2002 provides an overview of recent international research in the field of ionization by electron and photon impact Emphasizing multi particle coincidence studies such as  $e^+e^-e^+e^-$  ionization excitation and double photo ionization the book contains 18 contributions of recent experimental theoretical and computational achievements in the realization interpretation and modeling of correlated processes that involve a wide range of targets including atoms molecules and surfaces It also covers nuclear reactions and interaction of electrons photons and ions with biological matter This book is an essential reference for researchers working in atomic and molecular physics

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