

World Scientific Lecture Notes in Physics, Vol. 2

RELATIVISTIC NUCLEAR PHYSICS

THEORIES OF STRUCTURE AND SCATTERING

L S Celenza
C M Shakin



World Scientific



Relativistic Nuclear Physics Theories Of Structure And Scattering

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Relativistic Nuclear Physics Theories Of Structure And Scattering:

Relativistic Nuclear Physics, **Relativistic Nuclear Physics** L. S. Celenza, C. M. Shakin, 1986 The last decade has seen a revolution in how we think about nuclear structure It has become clear that the nucleus is a relativistic system and that the motion of nucleons is best described by the Dirac equation The book describes some of the successes achieved in the relativistic approach with an emphasis on parameter free models *Rotation And Accretion Powered Pulsars* Pranab Ghosh, 2007-04-17 This book is an introduction to pulsars a key area in high energy astrophysics with continuing potential for fundamental discoveries Throughout the book runs the unifying thread of the evolutionary link between rotation powered pulsars and accretion powered pulsars a milestone of modern astrophysics Early textbooks on pulsars dealt almost entirely with rotation powered ones while accounts of pulsars in volumes on X ray binaries focused almost exclusively on accretion powered ones This is the first textbook to treat these two kinds of pulsars simultaneously with equal importance stressing the fact that both are rotating magnetic neutron stars operating under different conditions during different parts of their lives It describes the observational properties of both kinds of pulsars summarizes our physical understanding of these properties and pays detailed attention to the physics of superdense matter which neutron stars are composed of as well as to the superfluidity which is expected to occur in neutron stars Evolution from rotation power to accretion power and vice versa are carefully described The effects of the strong magnetic fields of neutron stars on themselves their emission properties and their environments are discussed as are the origin and evolution of such magnetic fields Also treated is the superbly accurate verification of Einstein's theory of general relativity through timing studies of binary pulsars which led to the award of the Nobel Prize to Hulse and Taylor in 1993 On each topic the book starts with simple basic physical concepts and builds up the exposition to the point where the latest and most exciting developments become accessible to the reader **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 published 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 However 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 generalised 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 Relativistic Dynamics and

Quark-nuclear Physics Mikkel B. Johnson, Alan Picklesimer, 1986 This book treats and contrasts two competing orientations toward nuclear structure and scattering the traditional relativistic meson theory and the more modern quark gluon theory It includes recent developments and focuses on fundamental theory featuring discussion of research projects currently under study Also considered are such topics as the application of meson theory in nuclear physics the theoretical approach in electron scattering application of quantum chromatic dynamics to the scattering of electrons from nuclei lattice gauge theory and much more The book will be useful to graduate students of all levels **High Energy Physics Index** ,1990 ERDA Energy Research Abstracts United States. Energy Research and Development Administration,1977 Air Force Research Resumés , *Scientific and Technical Aerospace Reports* ,1994 Energy Research Abstracts ,1995

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