

# Nucleons and Pions or Quarks and Gluons?

- From a field theoretic perspective, nuclei are a separate solution of **QCD Lagrangian**
  - Not a simple convolution of free nucleon structure with Fermi motion
- 'Point nucleons moving non-relativistically in a mean field' describes lowest energy states of light nuclei very well
  - But description *must fail* at small distances
- In nuclear deep-inelastic scattering, we look directly at the **quark structure of nuclei**

**This is new science, and largely unexplored territory**

*New experimental capabilities to attack long-standing physics issues*

# Models Of The Nucleon From Quark To Solution

**L Towne**



## **Models Of The Nucleon From Quark To Solution:**

*Quarks, Symmetries And Strings - A Symposium In Honor Of Bunji Sakita's 60th Birthday* Michio Kaku, Antal Jevicki, Keiji Kikkawa, 1991-04-30 Quarks Symmetries and Strings is a book that reflects the rich diversity of current research in physics it describes quantum chromodynamics quark phenomenology superstring theory supersymmetry matrix models statistical methods superconductivity and neural networks The book also reflects the diversity of Dr Bunji Sakita's scientific work Dr Sakita has made seminal contributions in many of these areas The book celebrates the many path breaking ideas he pioneered which still cross fertilize many of the most active areas of current research *Nuclear Science Abstracts*, 1976-05

*Scientific and Technical Aerospace Reports*, 1971 *Energy Research Abstracts*, 1992 **Soviet Journal of Nuclear Physics**, 1989 **ERDA Energy Research Abstracts**, 1989 **Physics Briefs**, 1993 *The IVth International Conference on Quarks and Nuclear Physics* Antonio Dobado, Felipe J. Llanes-Estrada, V. Vento, 2008-11-07 The QNP series of international conferences on Quarks and Nuclear Physics is by now a well established and highly respected forum where the most recent developments in the field are discussed and communicated QNP 2006 is the fourth edition of this biennial meeting Selected and refereed original contributions of QNP 2006 have been published in The European Physical Journal A Hadrons and Nuclei EPJ A while the present proceedings book in addition to reprinting the articles published in EPJ A further includes all other contributions selected and accepted by the organizing committee for publication and archiving **Neutrosophic Physics: More Problems, More Solutions (Collected Papers)** Florentin Smarandache, 2010 In this concern neutrosophic logics and neutrosophy in general established by Prof Smarandache is one of the promising research instruments which could be successfully applied by a theoretical physicist Naturally neutrosophic logics being a part of modern logics states that neutralities may be between any physical states or states of space time In particular this leads sometimes to paradoxical situations when two opposite states are known in physics while the neutral state between them seems absolutely impossible from a physical viewpoint Meanwhile when considering the theoretically possible neutralities in detail we see that these neutral states indicate new phenomena which were just discovered by the experimentalists in the last decade or shows a new field for further experimental studies as for example unmatter which is a state between matter and antimatter Research papers presented in this collection manifest only a few of many possible applications of neutrosophic logics to theoretical physics D Rabounski The multi space with its multi structure is a Theory of Everything It can be used for example in the Unified Field Theory that tries to unite the gravitational electromagnetic weak and strong interactions in physics F Smarandache **ERDA Energy Research Abstracts** United States. Energy Research and Development Administration, 1977 *High Energy Physics Index*, 1992 *INIS Atomindex*, 1986 **Quarks, Baryons and Chiral Symmetry** Atsushi Hosaka, H. Toki, 2001 Ch 1 Ingredients of the standard model 1 1 Strong interaction QCD 1 2 Electroweak theory 1 3 CKM mass matrix ch 2 Symmetries and wave functions 2 1 Why is symmetry important 2 2 Symmetry current 2 3

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