

Deep inelastic scattering

- Deep inelastic scattering is a process used to probe the internal structure of protons and neutrons
- It involves firing high-energy electrons at nucleons, causing them to break apart
- This method has revealed that nucleons are composed of smaller particles called quarks and gluons
- The study of these interactions has been pivotal in developing the quantum chromodynamics theory, which explains the strong force in particle physics

Practical example: Particle accelerators

- Deep inelastic scattering (DIS) is a key process studied in particle accelerators
- It occurs when high-energy particles (like electrons or protons) collide with a target nucleus, breaking it apart
- This process helps scientists understand the fundamental structure of matter by analyzing how the particles inside the nucleus, such as quarks and gluons, distribute and interact
- Particle accelerators provide the high energy necessary for DIS experiments, enabling discoveries about the building blocks of the universe

Deep Inelastic Scattering

**Carlos Alberto Garcia Canal, M. B. Gay
Ducati, J. A. Martins Simoes**

Deep Inelastic Scattering:

Deep Inelastic Scattering Robin Devenish, Amanda Cooper-Sarkar, 2011-04-28 This book provides an up to date self contained account of deep inelastic scattering in high energy physics intended for graduate students and physicists new to the subject It covers the classic results which led to the quark parton model of hadrons and the establishment of quantum chromodynamics as the theory of the strong nuclear force in addition to new vistas in the subject opened up by the electron proton collider HERA The extraction of parton momentum distribution functions a key input for physics at hadron colliders such as the Tevatron at Fermi Lab and the Large Hadron Collider at CERN is described in detail The challenges of the HERA data at low x are described and possible explanations in terms of gluon dynamics and other models outlined Other chapters cover jet production at large momentum transfer and the determination of the strong coupling constant electroweak interactions at very high momentum transfers the extension of deep inelastic techniques to include hadronic probes a summary of fully polarised inelastic scattering and the spin structure of the nucleon and finally a brief account of methods in searching for signals beyond the standard model

Deep Inelastic Positron-Proton Scattering in the High-Momentum-Transfer Regime of HERA Ulrich F. Katz, 2003-07-01 About three decades after the first experiments on deep inelastic lepton hadron scattering began to investigate the structure of hadrons the history of this fruitful field of particle physics continues in the broad spectrum of research performed at the electron and positron proton collider HERA at DESY where the multipurpose detectors ZEUS and H1 access ep scattering at a center of mass energy of 300 GeV and explore as yet uncharted kinematic realms of deep inelastic scattering After the first years of data taking at HERA each of the experiments has collected a total of roughly 40 pb¹ of e p data yielding sensitivity to deep inelastic e p interactions at high four momentum transfers Q^2 where typical cross sections drop into the subpicobarn regime This kinematic domain is characterized by electroweak unification manifesting itself most markedly in the neutral and charged current cross sections which approach an equal order of magnitude as Q^2 rises above the square of the W and Z masses Consequently HERA allows for the first time studies of both types of processes simultaneously with the same initial state conditions and in the same detector and thus we can investigate the interplay of electroweak and strong forces governing the respective cross sections

The Structure of the Proton R. G. Roberts, 1993-11-26 This graduate research level book describes our present knowledge of protons and neutrons the particles which make up the nucleus of the atom Experiments using high energy electrons muons and neutrinos reveal the proton as being made up of point like constituents quarks The strong forces which bind the quarks together are described in terms of the modern theory of quantum chromodynamics QCD the glue binding the quarks being mediated by new constituents called gluons Larger and new particle accelerators probe the interactions between quarks and gluons at shorter distances The understanding of this detailed substructure and of the fundamental forces responsible is one of the keys to unravelling the physics of the structure of matter This book will be of interest to all theoretical and

experimental particle physicists **Deep Inelastic Scattering** J. Blümlein, T. Riemann, 2016-06-03 Deep Inelastic Scattering

Deep Inelastic Scattering: Dis 2006 - Proceedings Of The 14th International Workshop Masahiro Kuze, Kunihiro Nagano, Katsuo Tokushuku, 2007-01-23 These proceedings present the most up to date status of deep inelastic scattering DIS physics Topics such as structure function measurements and phenomenology quantum chromodynamics QCD studies in DIS and photoproduction spin physics and diffractive interactions are reviewed in detail with emphasis on those studies that push the test of QCD and the Standard Model to the limits of their present range of validity towards both the very high and the very low four momentum transfers in lepton proton scattering **The 9th International Workshop on Deep Inelastic Scattering, DIS 2001** G. Bruni, 2002 The proceedings of DIS 2001 present the most updated status of deep inelastic scattering DIS physics Topics like structure function measurements and phenomenology QCD studies in DIS and photoproduction spin physics and diffractive interactions are reviewed in detail with emphasis on those studies that push the test of QCD and the Standard Model to the limits of their present range of validity towards both the very high and the very low four momentum transfers in the lepton proton scattering Moreover this workshop coincided with the transition between the first period of experimentation at the HERA ep collider at DESY and the start of the updated HERA II operation allowing a review of what has been learned up to now and a discussion on the main future directions of research in this field **Deep Inelastic Scattering And Related Phenomena** Giulio D'agostini, Andrea Nigro, 1997-03-15 This workshop is the fourth of a series initiated in Durham March 93 followed by Eilat February 94 and Paris April 95 The large interest and the great inflow of experimental data coming mainly from HERA are some of the reasons behind the decision to have this annual meeting presently the most important one for this area of research During the workshop experimental results and theoretical aspects have been reported on subjects which have been organised by working groups on 1 hadron structure functions 2 photoproduction and photon structure 3 diffractive interactions 4 hadronic final states 5 spin effects in lepton nucleon scattering 6 special session on theoretical advances While the contributions to the working groups offer hot material for specialists the reports by the conveners as well as other contributions to the plenary sessions offer to nonspecialists a complete overview of this research field **Deep Inelastic Scattering** Masahiro Kuze, Kunihiro Nagano, Katsuo Tokushuku, 2007 These proceedings present the most up to date status of deep inelastic scattering DIS physics Topics such as structure function measurements and phenomenology quantum chromodynamics QCD studies in DIS and photoproduction spin physics and diffractive interactions are reviewed in detail with emphasis on those studies that push the test of QCD and the Standard Model to the limits of their present range of validity towards both the very high and the very low four momentum transfers in lepton proton scattering Deep Inelastic Scattering Johannes Blümlein, Tord Riemann, T. Riemann, 1992 Deep Inelastic Scattering from A, 2003 We present a comprehensive analysis of deep inelastic scattering from ^3He and ^3H focusing in particular on the extraction of the free neutron structure function F_2^{neutron} Nuclear

corrections are shown to cancel to within 1 2% for the isospin weighted ratio of ^3He to ^3H structure functions which leads to more than an order of magnitude improvement in the current uncertainty on the neutron to proton ratio $F_2^{\text{He}}/F_2^{\text{H}}$ at large x . Theoretical uncertainties originating from the nuclear wave function including possible non nucleonic components are evaluated. Measurement of the ^3He and ^3H structure functions will in addition determine the magnitude of the EMC effect in all A ≤ 3 nuclei.

Deep Inelastic Scattering - Proceedings Of The 8th International Workshop John A Gracey, Tim J Greenshaw, 2001-02-22 This volume focusses on four main topics structure functions tests of quantum chromodynamics physics at the highest Q^2 and p_T and high energy scattering and diffraction Comprehensive review articles on hadronic and photon structure lepton parton and parton parton physics as well as future experimental opportunities are presented together with a special lecture on HERA's legacy after the first decade of operation.

Notes on Deep Inelastic Scattering Carlos Alberto Garcia Canal, M. B. Gay Ducati, J. A. Martins Simoes, 1979.

DIS 2000 John A. Gracey, Tim Greenshaw, 2001 This volume focusses on four main topics structure functions tests of quantum chromodynamics physics at the highest Q^2 and p_T and high energy scattering and diffraction Comprehensive review articles on hadronic and photon structure lepton parton and parton parton physics as well as future experimental opportunities are presented together with a special lecture on HERA's legacy after the first decade of operation. Publisher's website.

QCD at HERA Michael Kuhlen, 1999 The book provides a review of the hadronic final state measurements at HERA in deep inelastic scattering. It covers general event properties particle spectra heavy flavours jets event shape measurements QCD instantons and small x physics. The emphasis is on experimental results providing quick access to the data complete up to fall 1997 for reference. The results are discussed in the context of QCD.

Deep Inelastic Scattering from Light Nuclei, 2002 We review recent developments in the study of deep inelastic scattering from light nuclei focusing in particular on deuterium helium and lithium nuclei. Understanding the nuclear effects in these systems is essential for the extraction of information on the neutron structure function.

Topics in Deep Inelastic Scattering Stephen Michael Wandzura, 1977.

International Workshop on Deep Inelastic Scattering and Related Subjects, Eilat, Israel, 6-11 February 1994 Aharon Levy, 1994.

Many Body Theory of Deep Inelastic Scattering, 2004 We employ a simple exactly solved model of confined Dirac particles to understand spin structure in hadrons. Specifically we study the Bjorken x or Nachtmann ξ dependence of the virtual photon spin asymmetry in deep inelastic scattering of longitudinally polarized electrons from longitudinally polarized protons and neutrons. We use a relativistic potential model of the hadron treating the constituents as independent massless Dirac particles confined to an infinitely massive force center. The importance of the p wave components of the Dirac wave function is demonstrated. Comparisons are made to the observed data on protons and neutrons by taking into account the observed flavor dependence of the valence quark distributions.

Deep Inelastic Scattering Franz Eisele, 1995.

Charm Production in Deep Inelastic Scattering Sebastian Klein, 2011-10-09 The production of heavy quarks in high energy experiments offers a rich

field to study both experimentally and theoretically. Due to the additional quark mass, the description of these processes in the framework of perturbative QCD is much more demanding than it is for those involving only massless partons. In the last two decades, a large amount of precision data has been collected by the deep inelastic HERA experiment. In order to make full use of these data, a more precise theoretical description of charm quark production in deep inelastic scattering is needed. This work deals with the first calculation of fixed moments of the NNLO heavy flavor corrections to the proton structure function F_2 in the limit of a small charm quark mass. The correct treatment of these terms will allow not only a more precise analysis of the HERA data but, starting from there, also a more precise determination of the parton distribution functions and the strong coupling constant, which is an essential input for LHC physics. The complexity of this calculation requires the application and development of technical and mathematical methods, which are also explained here in detail.

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