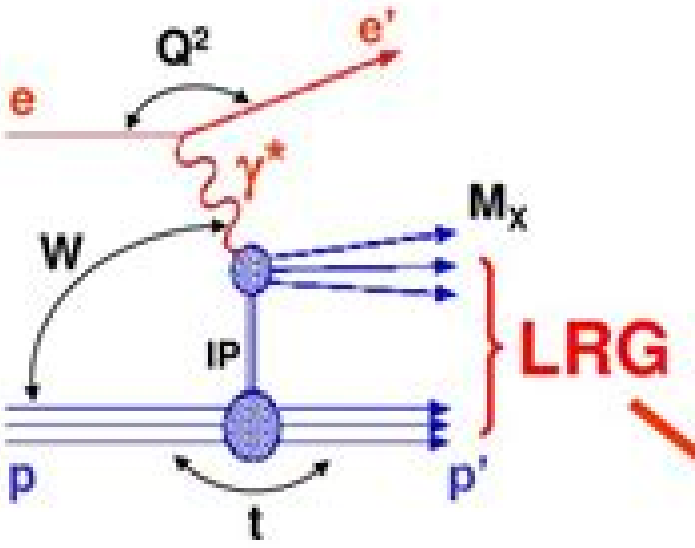
Diffractive Deep Inelastic Scattering

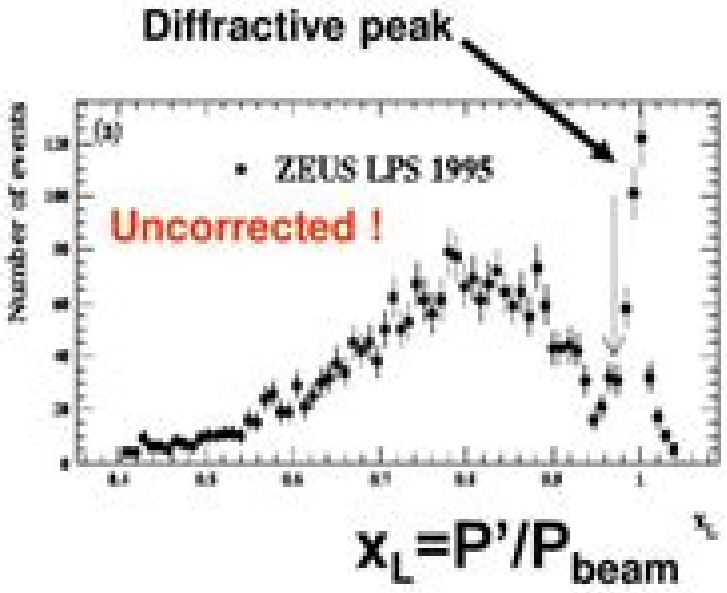


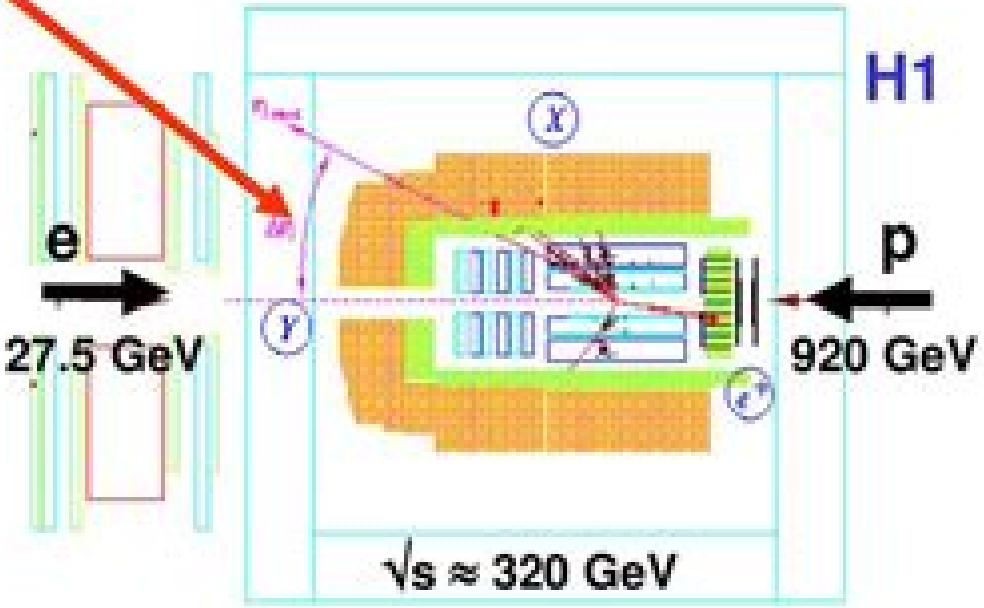
Q^2 = virtuality of photon =
= (4-momentum exchanged at e vertex)^2

t = (4-momentum exchanged at p vertex)^2
typically: $|t|<1$ GeV^2

W = invariant mass of photon-proton system

M_X= invariant mass of photon-Pomeron system





Structure Of The Proton Deep Inelastic Scattering

Emlyn Willard Hughes,Francesco Iachello

Structure Of The Proton Deep Inelastic Scattering:

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 *Studies of Various Aspects of the Proton Structure in Deep Inelastic Scattering at HERA and Identification of Quark and Gluon Jets* Morten Nyberg-Werther,1994 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 **The Spin Structure of the Proton** Steven D. Bass,2008 One of the main challenges in nuclear and particle physics in the last 20 years has been to understand how the proton s spin is built up from its quark and gluon constituents Quark models generally predict that about 60% of the proton s spin should be carried by the spin of the quarks inside whereas high energy scattering experiments have shown that the quark spin contribution is small only about 30% This result has been the underlying motivation for about 1000 theoretical papers and a global program of dedicated spin experiments at BNL CERN DESY and Jefferson Laboratory to map the individual quark and gluon angular momentum contributions to the proton s spin which are now yielding exciting results This book gives an overview of the present status of the field what is new in the data and what can be expected in the next few years The emphasis is on the main physical ideas and the interpretation of spin data The interface between QCD spin physics and the famous axial U 1 problem of QCD eta and etaprime meson physics is also highlighted Book jacket *Progress in High Energy Physics and*

Nuclear Safety Viktor Begun,László L. Jenkovszky,Aleksander Polanski,2009-04-14 On September 27 October 3 2008 the NATO Advanced Research Workshop ARW on progress in high energy physics and nuclear safety was held in Yalta Crimea see http crimea bitp kiev ua and http arw bitp kiev ua Nearly 50 leading experts in high energy and nuclear physics from Eastern and Western Europe as well as from North America participated at the Workshop The topics of the ARW covered recent results of theoretical and experimental studies in high energy physics accelerator detection and nuclear technologies as well as problems of nuclear safety in high energy experimentation and in nuclear dustry The forthcoming experiments at the Large Hadron Collider LHC at CERN and cosmic ray experiments were among the topics of the ARW An important aspect of the Workshop was the scienti c collaboration between nuclear physicists from East and West especially in the eld of nuclear safety The present book contains a selection of invited talks presented at the ARW The papers are grouped in two parts *Nuclear Science Abstracts* ,1976-04 *Deep Inelastic Electron-proton Scattering and the Structure of Nucleons* Wee Kor Koo,1974 **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 pb 1 of e p data yielding sensitivity to deep inelastic e p interactions at high four momentum transfers Q2 where typi cal 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 Q2 rises above the square of the W and Z masses Consequently HERA allows for the first time studies of both types of pro cesses 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 **Proceedings of the International Europhysics Conference on High Energy Physics** International Europhysics Conference on High Energy Physics 1995, Brussels, Belgium,1996 *In Memory of Vernon Willard Hughes* Emlyn Willard Hughes,Francesco Iachello,2004 On March 25 2003 Professor Vernon Hughes of Yale University passed away in New Haven Connecticut His career in physics extended over more than 50 years and his highly influential research work contributed invaluably to numerous fundamental questions in physics This book comprises a compilation of articles covering talks given at the Vernon Willard Hughes Memorial Symposium which took place at Yale University in November 2003 The fascinating contributions from many leading experimental and theoretical physicists cover topics in atomic nuclear and particle physics as well as include remarks made by Professor Alan Bromley at the symposium dinner The book also features the Biographical Memoirs of Professor Hughes

written by Professor Robert Adair for the US National Academy of Sciences and a complete list of Professor HughesOCOs publications The proceedings have been selected for coverage in OCo Index to Scientific Technical Proceedings ISTP ISI Proceedings OCo Index to Scientific Technical Proceedings ISTP CDROM version ISI Proceedings OCo CC Proceedings OCo Engineering Physical Sciences **Handbook of Particle Physics** M.K. Sundaresan,2017-12-19 Literally thousands of elementary particles have been discovered over the last 50 years their properties measured relationships systematized and existence and behavior explained in a myriad of cleverly constructed theories As the field has grown so impressively so has its jargon Until now scientists in other fields have had no single resource from which they can quickly reference an idea acronym or term and find an accessible definition and explanation The Handbook of Particle Physics fills that void This unique work contains in encyclopedic form terms of interest in particle physics including its peculiar jargon It covers the experimental and theoretical techniques of particle physics along with terms from the closely related fields of astrophysics and cosmology Designed primarily for non specialists with a basic knowledge of quantum mechanics and relativity the entries preserve a degree of rigor by providing the relevant technical and mathematical details Clear and engaging prose numerous figures and historical overviews complement the handbook s convenience both as a reference and as an invitation into the fascinating world of particle physics *Photon '95: Gamma-gamma Collisions And Related Processes - Incorporating The Xth International Workshop* David J Miller,Valery A Khoze,Susan L Cartwright,1995-12-22 The proceedings report results on all aspects of high energy photon interactions on photon proton and Pomeron targets There are significant contributions from the LEP experiments from ZEUS and H1 from CLEO II and from the TRISTAN experiments in Japan accompanied by extensive theoretical discussion and predictions for future gamma gamma colliders *Proceedings Of The 28th International Conference On High Energy Physics (In 2 Volumes)* Zygmunt Ajduk,Andrzej Kajetan Wroblewski,1997-04-11 The 28th conference from the Rochester series was the major high energy physics conference in 1996 Volume one contains short reports on new theoretical and experimental results Volume two consists of the review talks presented in the plenary sessions *Polarization Dynamics In Nuclear And Particle Physics - Proceedings Of The 2nd Adriatico Research Conference* Asim Orhan Barut,Nello Paver,Aldo Penzo,Ryszard Raczka,1993-12-22 In the four years since the first Trieste Meeting on Spin and Polarization Dynamics in Nuclear and Particle Physics considerable progress has been made both in the theoretical and experimental aspects of this field The polarization phenomena have given rise to many more detailed and crucial tests which enhance our understanding of particle physics New information can also be uncovered in the process of conducting the various tests For this reason considerable efforts have been put into the present and future accelerators to extend the experimental data to measure polarization asymmetries for both polarized targets and polarized scattered and produced particles The 2nd Adriatico Research Conference held in January 1992 brought together both theorists and experimentalists who presented many new findings These findings have been compiled into this compact volume to give a complete picture of

the wide range of theoretical and experimental problems difficulties results prospects and hopes which are at the core of particle physics studies today It will be a useful guide for the present status of polarization phenomena and their fundamental implications High Energy Physics Index ,1990 Modern Particle Physics Mark Thomson,2013-09-05 Comprehensive up to date textbook integrating recent experimental results including discovery of the Higgs boson to convey the excitement of the field to undergraduate and graduate students Physical theory is made accessible with coverage of underlying principles full mathematical derivations worked examples of experimental applications and end of chapter problems **Physics Briefs** ,1994 *Masses of Fundamental Particles* Maurice Lévy,Jean Liopoulos,Raymond Gastmans,Jean-Marc Gérard,2013-06-29 Proceedings of a NATO ASI held in Carg se France August 5 17 1996 **60 Years Of Cern Experiments And Discoveries** Herwig Schopper,Luigi Di Lella,2015-07-13 The book is a compilation of the most important experimental results achieved during the past 60 years at CERN from the mid 1950s to the latest discovery of the Higgs particle Covering the results from the early accelerators at CERN to those most recent at the LHC the contents provide an excellent review of the achievements of this outstanding laboratory Not only presented is the impressive scientific progress achieved during the past six decades but also demonstrated is the special way in which successful international collaboration exists at CERN **Weak And Electromagnetic Interactions In Nuclei - Proceedings Of 3rd International Symposium (Wein-9)** T S D Vylov,1993-03-30 This volume presents the experimental and theoretical methods of studying soft interaction physics in high energy collisions The topics include dynamical and Bose Einstein correlations multiplicity fluctuation soft photons disoriented chiral condensate self similarity and self affine behaviors wavelet analysis intermittency chaos and phase transition

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