Abstract ID: 799

Measurement of Charged Current Deep Inelastic Scattering Cross Sections with a Longitudinally Polarised Electron Beam at HERA

Content:

Measurements of the cross sections for charged current deep inelastic scattering in e-p collisions with longitudinally polarised electron beams are presented. The measurements are based on a data sample with an integrated luminosity of 175pb-1 collected with the ZEUS detector at HERA at a centre-of-mass energy of 318 GeV. The total cross section is given for positively and negatively polarised electron beams. The differential cross-sections dsigma/dQ2, dsigma/dx and dsigma/dy are presented for Q2 > 200 GeV2. The double-differential cross-section d^2sigma/dxdQ2 is presented in the kinematic range 280 < Q2 < 30000 GeV2 and 0.015 < x < 0.65. The measured cross sections are compared with the predictions of the Standard Model.

Primary authors: Dr. HAAS, Tobias (DESY)

Co-authors : Dr. REISERT, Burkard (Max-Planck Institut für Physik München) ; Dr. GEISER, Achim

(DESY); Prof. TASSI, Enrico (Universita della Calabria)

Presenter: Dr. HAAS, Tobias (DESY)

Track classification: 02 - The Standard Model and Electroweak Symmetry Breaking; 04 - Hadronic

Structure, Parton Distributions, soft QCD, Spectroscopy

Contribution type: Parallel Session Talk

Submitted by : Mr. HAAS, Tobias Submitted on Friday 14 May 2010

Last modified on: Wednesday 19 May 2010

Comments:

These results are presented on behalf of the ZEUS Collaboration

Thursday 20 May 2010 Page 43