

Abstract ID : 811

Measurement of the longitudinal proton structure function at HERA

Content :

The reduced cross sections for ep deep inelastic scattering have been measured with the ZEUS detector at HERA at three different centre-of-mass energies, 318, 251 and 225 GeV. From the cross sections, measured double differentially in Bjorken x and the virtuality, Q^2 , the proton structure functions F_L and F_2 have been extracted in the region $0.0005 < x < 0.007$ and $20 < Q^2 < 130 \text{ GeV}^2$.

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Track classification : 03 - Perturbative QCD, Jets and Diffractive Physics ; 04 - Hadronic Structure, Parton Distributions, soft QCD, Spectroscopy

Contribution type : Parallel Session Talk

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Submitted on Friday 14 May 2010

Last modified on : Friday 14 May 2010

Comments :

These results are presented on behalf of the ZEUS Collaboration