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Plenary sessions: 6

Measurement of the Inclusive Deep Inelastic ep Scattering Cross Section at Low Q^2 at HERA

H1 Collaboration, DESY

A measurement of the proton structure function $F_2(x, Q^2)$ is reported for momentum transfer squared $2 < Q^2 < 120$ GeV^2 and for Bjorken-x values above 10^{-5} using data collected with the H1 experiment. A QCD analysis of these data is presented. The cross section data extends to large values of the inelasticity parameter y and thus leads to information on the longitudinal structure function F_L at very low x and Q^2 near to 10-30 GeV^2.