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Low Q^2 – Intermediate x Structure Function Measurement at HERA

H1 Collaboration, DESY

The result of a measurement of the proton structure function $F_2(x, Q^2)$ is reported in an extended kinematic domain at low Q^2 ($Q^2 > 0.1$ GeV^2) and intermediate Bjorken-x ($x < 10^{-3}$) using deep inelastic events with a photon radiation collinear to the incident electron, collected in 1996 by the HERA experiment H1. The rise of F_2 with decreasing x is found to be less steep towards low Q^2 values. The longitudinal structure function F_L is beeing investigated using the same sample of events.