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A Measurement of the Proton Structure Function $F_2(x, Q^2)$ at low x and low Q^2 at HERA

H1 Collaboration

Abstract

A new measurement of the proton structure function $F_2(x, Q^2)$ is reported for 4-momentum transfers squared Q^2 between 0.35 GeV^2 and 50 GeV^2 and for Bjorken-x between 6×10^{-6} and 0.01 using data collected by the HERA experiment H1 in 1995. A substantial extension of the kinematic range towards low Q^2 and x is achieved by an upgrade of the H1 apparatus in the backward region where the scattered electron is measured.

Plenary Sessions:
2. Soft Interactions and Diffraction Phenomena - S. Levonian
4. QCD and Low x Physics - H. Abramowicz, R. Brock
Parallel Session: I Strong Interaction Physics
2. Soft Interactions
3. Structure Functions and Low x Physics
4. Hard Processes and Perturbative QCD