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Measurement of Inclusive Cross Sections for Neutral and Charged Current Interactions at High-Q^2

H1 Collaboration, DESY

The inclusive single and double differential cross sections for neutral and charged current processes for Q^2 between 200 and 30000 GeV^2 are measured with the H1 experiment at HERA with the data taken in 1994-1997. Predictions of the electroweak theory are confronted with the data and standard model parameters are extracted. The QCD evolution is tested to the highest available Q^2 at large parton momenta, up to x-Bjorken=0.65. New information on the parton distributions of the proton is extracted.