Measurement of the Inclusive DIS Cross Section at Low Q^2 with the H1 Detector

Alexey Petrukhin, DESY Zeuthen

A precision measurement of the inclusive deep inelastic scattering *ep* cross section at low Q^2 about $1.5 - 12\ GeV^2$ is presented, using data of a minimum bias trigger run from the year 1999 taken with the H1 detector at HERA. The data are compared with high statistics of simulated events which leads to small analysis errors . The analysis is performed by using the upgraded backward silicon tracker (BST2).