

## Results from Deep Inelastic $ep$ Scattering at HERA

Since 1992 the experiments H1 and ZEUS are studying  $e^\pm p$  interactions at the HERA collider. HERA is an ideal machine to investigate deep inelastic  $ep$  scattering and scattering of quasi real photons off protons. In this presentation selected results from deep inelastic scattering will be shown.

The measurement of the structure function  $F_2(x, Q^2)$  will be discussed. The HERA data spans over a large range of momentum transfers  $Q^2$  and Bjorken  $x$ , thereby extending the range measured by the fixed target experiments BCDMS and NMC to larger  $Q^2$  and lower  $x$  values. The present understanding of events which show a large rapidity gap between the directions of flight of the incoming proton and the hadron observed closest in rapidity to the proton will be reviewed. The presentation of the results of the analysis of the hadronic final state will concentrate on the determination of the gluon density in the proton and the measurement of the strong coupling constant  $\alpha_s$  as a function of  $Q^2$ .