May 25th 1996
Abstract pa02-075 submitted to the 28th International Conference on High Energy Physics ICHEP'96, Warsaw, Poland, July 1996

Charged Particle Multiplicities in Deep-Inelastic Scattering at HERA

H1 Collaboration

Abstract

Using the H1 detector at HERA, charged particle multiplicity distributions in deep-inelastic scattering have been studied over a large kinematical region. The evolution with W and Q^2 of the multiplicity distribution in pseudorapidity domains of varying size is studied in the current fragmentation region of the hadronic centre-of-mass frame. The results are compared to fixed target lepton-nucleon, e^+e^- annihilation and hadron-hadron results. Fits to the Negative Binomial and Lognormal distribution are presented.

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