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Comparison of Charged Particle Pseudorapidity Distributions in Photoproduction and Deeply Inelastic Scattering at HERA

H1 Collaboration

Abstract

Using data taken at the HERA ep collider, measurements are presented of the dependence on pseudo-rapidity in the photon-proton CMS of inclusive charged particle production for real (γp, $Q^2 = 0\,\mathrm{GeV}^2$) and virtual ($\gamma^* p$, $8 < Q^2 < 30\,\mathrm{GeV}^2$) photon-proton interactions. A comparison is made for an interval of collision energy W between 160 GeV and 210 GeV ($0.3 < y < 0.5$). The results are discussed in terms of a Regge model with screening corrections.

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