May 25th 1996
Abstract pa02-084 submitted to the 28th International Conference on High Energy Physics ICHEP'96, Warsaw, Poland, July 1996

Jet Production in Real and Virtual γp Interactions at HERA

H1 Collaboration

Abstract

The transition between photoproduction and point-like deep-inelastic scattering processes is investigated in ep collisions at HERA, using data containing high E_t jets collected by the H1 experiment in 1994 and 1995. Measurements of the single inclusive ep jet cross section $\mathrm{d}\sigma/\mathrm{d}E_t$ are presented as a function of Q^2, the virtuality of the photon. The dependence of the di-jet production cross section on Q^2 and on x_γ, which may be taken as the fractional momentum of the struck parton in the photon, is presented. The interpretation of the results in terms of the structure of the virtual photon is discussed.

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