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Measurement of Charged Particle Transverse Momentum Spectra in Deep-Inelastic Scattering at HERA

H1 Collaboration

Abstract

Transverse momentum spectra (p_T) of charged particles produced in deep-inelastic ep interactions are measured as a function of the kinematic variables Bjorken-x and Q^2 using the H1 detector at the HERA collider. The data are compared with models which assume that parton emission is either strongly ordered or not in transverse momentum k_T. At small Bjorken-x the data show significantly harder p_T spectra than predicted by the k_T ordered scenario, but they are in accord with the unordered one.

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