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Forward Jet and Particle Production at HERA

H1 Collaboration, DESY

Production of high transverse momentum charged particles, π^0s and jets is studied in deep-inelastic scattering data taken with the H1 detector at the ep collider HERA. The rate of the particles and jets observed at small angles with respect to the proton axis is strongly correlated to the underlying parton dynamics. Results are presented as a function of Bjorken-x and x_i, the fraction of the incident proton's energy carried by the particle or jet, at low Bjorken-x and large x_i. Comparisons are made with a BFKL inspired calculation and with Monte-Carlo predictions based on DGLAP evolution, on the CCFM equation and on the colour dipole model.