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Photoproduction of K^0 and Λ at HERA and a Comparison with Deep–Inelastic Scattering

H1 Collaboration

Inclusive K^0 and Λ photoproduction has been investigated at HERA with the H1 detector at an average photon-proton center-of-mass energy of 200 GeV in the transverse momentum range $0.5 < p_t < 5$ GeV/c. The production rates as a function of center-of-mass transverse-momentum and rapidity are compared to those obtained by H1 in deep–inelastic scattering at $\langle Q^2 \rangle = 23$ GeV^2. A similar comparison is made of the rapidity spectra of charged particles. The rate of strangeness photoproduction is compared with $p\bar{p}$ measurements. The observations are also compared with next–to–leading order QCD calculations and the predictions of the PYTHIA model.