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Strangeness Photoproduction at HERA

H1 Collaboration

Abstract

Inclusive photoproduction of K^0, Λ and $\overline{\Lambda}$ have been studied at HERA with the H1 detector at a photon-proton centre of mass energy of 200 GeV and for the kinematic ranges in transverse momentum of $0.5 < p_t < 5\,\mathrm{GeV/c}$ and in pseudorapidity of $|\eta_{lab}| < 1.3$. The cross sections are presented as a function of centre of mass rapidity and p_t and are compared with measurements in deeply inelastic scattering ($Q^2 > 10\,\mathrm{GeV}^2$). The W dependence of K^0 production is compared with that for single inclusive charged particle production at the same p_t.

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