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Strangeness Production in Deep-Inelastic ep Scattering at HERA

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The production of neutral strange hadrons is investigated using deep-inelastic scattering events measured with the H1 detector at HERA. The measurements are made in the phase space defined by the negative four-momentum transfer squared of the photon $7 < Q^2 < 100 \text{ GeV}^2$ and the inelasticity $0.1 < y < 0.6$. The K_s and Λ production cross sections and their ratios are determined. K_s production is compared to the production of charged particles in the same region of phase space. Predictions of leading order Monte Carlo programs are compared to the data.

The production of Λ baryons is studied at high Q^2 , using DIS events recorded with the H1 Detector. Using the full HERA-II statistics, differential Λ production cross sections, the Λ production rate per event and the Λ - $\bar{\Lambda}$ asymmetry is presented as a function of several kinematic variables. The H1 data are compared to theoretical predictions, based on leading order Monte Carlo programs with matched parton showers.

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