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Scaled momentum spectra of identified particles in the Breit frame at HERA

Content :
Scaled momentum distributions of identified particles, K0S and Lambda, have been measured in deep inelastic ep scattering with the ZEUS detector at HERA using an integrated luminosity of 290 pb^-1. The evolution of these distributions with the photon virtuality, Q^2, are studied in the kinematic region 10 < Q^2 < 40000 GeV^2. The distributions have been measured in the current fragmentation region of the Breit frame. Next-to-leading-order QCD calculations including hadron-mass effects are compared to the data. The calculations reproduce the trends of the measured distributions as functions of Q^2 and the scaled momentum variable reasonably well .

Primary authors : Dr. HAAS, Tobias (DESY)

Co-authors : Dr. REISERT, Burkard (Max-Planck Institut für Physik München) ; Dr. GEISER, Achim (DESY) ; Prof. TASSI, Enrico (DESY)

Presenter : Dr. HAAS, Tobias (DESY)

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Submitted by : Mr. HAAS, Tobias

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Comments :

These results will be presented on behalf of the ZEUS Collaboration