

First Observation of Hadronic Final State Charge Asymmetry in High Q^2 Deep-Inelastic Scattering at HERA

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A first measurement of the charge asymmetry in the scattered hadronic final state in high Q^2 deep-inelastic ep neutral current scattering at HERA has been made. The difference between the normalised distribution of the scaled momentum, x_p , for positive and negative particles, measured in the current region of the Breit frame, has been studied together with its evolution as a function of Q^2 . The results are compared to Monte Carlo models at the hadron and parton level.

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