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Transverse Energy Production in Deep–Inelastic Scattering

H1 Collaboration

Measurements of observables based on transverse energy are presented for deep–inelastic scattering events produced in positron-proton collisions at HERA. The kinematic range covers momentum transfers Q^2 from 2.5 GeV^2 up to 600 GeV^2 and a Bjorken–x down to $3 \cdot 10^{-5}$. The measurements of transverse energy flow cover rapidities between $-3 < \eta^* < 6$ in the hadronic centre–of-mass, and thereby extend the kinematic region in which models can be tested to domains in which there is greater sensitivity to novel QCD effects.