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Hadronisation of hard partons in Neutral and Charged Current Reactions at HERA

H1 Collaboration

The hadronic final state in neutral current (NC) and charged current (CC) reactions are studied for transverse momenta of the outgoing lepton $p_t > 25$ GeV using the H1 detector and data collected in 1994, 1995 and 1996. Using a cone algorithm, jet rates are determined and compared with the expectation of hard QCD radiation. Jet profiles are studied in detail. The angular and transverse energy distributions characterising energy flow in the final state are also presented and compared with simulations which include soft QCD radiation and hadronisation. NC and CC reactions are mediated by different hard partonic processes and thus allow the flavour dependence of the hadronisation of partonic systems to be studied.