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Low Q^2 Jet Production and Virtual Photon Structure at HERA

H1 Collaboration

The transition between photoproduction and point–like deep-inelastic scattering is investigated in ep collisions at HERA, using data collected by the H1 experiment. Measurements of the differential inclusive jet cross sections $\frac{\mathrm{d}\sigma}{\mathrm{d}E_T}$ and $\frac{\mathrm{d}\sigma}{\mathrm{d}\eta}$ in the virtual photon-proton centre of mass frame are presented for $0 < Q^2 < 50$ GeV^2 and $0.3 < y < 0.6$. The variation of the jet-cross section with Q^2 is interpreted in terms of the structure of the virtual photon, and comparisons are made with Monte Carlo models.