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Measurement of Isolated Photons with High Transverse Energy in Photoproduction at HERA

H1 Collaboration

A measurement is presented of the production of high E_T photons in quasi real photon-proton collisions at HERA using the H1 detector. The isolated photon is accompanied by a jet which balances kinematically the photon transverse momentum. The expectations of QCD for the distributions of E_T and η are shown. The distribution of the fraction x_γ of the photon energy participating in the collision is measured. It shows that the prompt photon process at HERA is dominated by the direct contribution as expected in QCD.