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Scale Dependence of the Di-Jet Cross Section in Photoproduction at HERA

H1 Collaboration

The double differential di-jet cross section in photoproduction processes is measured as a function of the parton fractional energy x_γ^{jets} and of the transverse energy scale E_T of the jets. The effective leading order parton distribution of the photon is determined in the range $0.1 < x_\gamma < 0.7$ for scales between $100\,\mathrm{GeV}^2 < p_T^2 < 1000\,\mathrm{GeV}^2$. The scale dependence reflects the anomalous component of the photon.