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Dijet Cross Sections in Photoproduction and Determination of the Gluon Density in the Photon

H1 Collaboration, DESY

Using 1996 data from the H1 detector at the HERA collider the differential di-jet cross section $d\sigma/dx_{\gamma}^{jets}$ is measured in photoproduction processes, extending the previously accessible range of the parton fractional energy down to $x_{\gamma}^{jets} = 0.04$. The measurement is compared with predictions based on leading order matrix elements complemented by parton shower mechanism and with NLO QCD calculations. The leading order gluon density of the quasi real photon is extracted.