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Dijet cross sections in photoproduction at HERA

Content :
Single- and double-differential inclusive dijet cross sections in photoproduction have been measured with the ZEUS detector using a data sample corresponding to an integrated luminosity of 300 pb-1. The measurement was performed for photon virtuality $Q^2 < 1$ GeV2; the jets were reconstructed with the kT cluster algorithm in the laboratory frame. Next-to-leading-order QCD calculations give a good description of the measurements. The double-differential cross sections have the potential to constrain the gluon density in the proton when included as input to fits to extract the proton parton distribution functions.

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Comments :

These results will be presented on behalf of the ZEUS Collaboration