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Study of the Q^2 Dependence of Di-Jet Angular Distributions at HERA

H1 Collaboration, DESY

The dijet cross section $d\sigma/d\bar{\eta}^*$, where $\bar{\eta}^*$ is the average pseudorapidity of the jets, has been measured in the kinematic range $1.6 < Q^2 < 100\ GeV^2$ and $0 < x_\gamma < 1.0$, where x_γ is the fraction of the photons momentum participating in the hard subprocess.
The interpretation of the results in terms of the structure of the virtual photon is discussed and comparisons are made with various leading and next to leading order QCD calculations incorporating photon structure at non zero Q^2.
The $\cos\theta^*$ distribution, which is sensitive to the effect of the propogator of the interaction, is also presented as a function of Q^2 and x_γ.