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Production of exclusive dijets in diffractive deep inelastic scattering at HERA

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The exclusive dijet production in diffractive deep inelastic $e^\pm p$ scattering has been measured with the ZEUS detector at HERA using an integrated luminosity of 372 pb^{-1} . The measurement was performed for $\gamma^* - p$ centre-of-mass energies in the range $90 < W < 250 \text{ GeV}$ and photon virtualities in the range $Q^2 > 25 \text{ GeV}^2$. Energy and transverse-energy flows around the jet axis are presented. The cross section is presented as a function of β , the Bjorken variable defined with respect to the diffractive exchange and, in bins of β , as a function of ϕ , the angle between the γ^* -dijet plane and the $\gamma^* - e^\pm$ plane in the rest frame of the dijet final state. The results are compared to predictions from models which are based on different assumptions about the nature of the diffractive exchange.

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