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Diffractive Dijet Production with Leading Proton in ep Collisions at HERA

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The cross section of diffractive process $ep \rightarrow eXp$ is presented where the system X contains at least two jets and the leading final state proton is tagged in the H1 Very Forward Proton Spectrometer (VFPS). The measurement is performed for untagged photoproduction with $Q^2 < 2 \text{ GeV}^2$ in photon virtuality and for deep-inelastic-scattering with $4 \text{ GeV}^2 < Q^2 < 80 \text{ GeV}^2$. The results are compared to next-to-leading order QCD calculations based on diffractive parton distribution functions extracted from measurements of inclusive cross sections in diffractive deep-inelastic-scattering. Results are discussed with focus on the validity of the factorisation theorem for these processes.

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