Abstract

The diffractive production of two jets in deep inelastic $e^{\pm}p$ scattering is measured in the kinematic region of photon virtuality $4 < Q^2 < 80$ GeV^2, inelasticity $0.1 < y < 0.7$, momentum fraction $x_{I\!P} < 0.03$, proton vertex momentum transfer $|t| < 1$ and mass of a dissociative baryonic system $M_Y < 1.6$ GeV. Diffractive events are identified with the large rapidity gap technique. Integrated and single differential cross sections are measured for jets of transverse momenta $p^*_{T1} > 5.5$ GeV and $p^*_{T2} > 4.0$ GeV and pseudorapidities $-3 < \eta^*_{1,2} < 0$. The data were collected by the H1 experiment at the HERA collider in years 2005-2007, corresponding to an integrated luminosity of 283.7 pb^{-1}. The measurements are compared with NLO predictions based on the DGLAP parton evolution.