Registration for the Spring-Meeting of the
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Dijets in Diffractive Photoproduction at HERA — •Sebastian Schätzel, Olaf Behnke, Franz Eisele and Frank-Peter Schilling — Physikalisches Institut, Universität Heidelberg

An open task in particle physics is to obtain a consistent understanding of diffractive hadronic scattering observed at different colliders. Pomeron parton densities extracted from diffractive deep-inelastic scattering (DIS) at HERA fail in the description of hard $p\bar{p}$ diffractive scattering at the Tevatron. Photoproduction provides a transition between DIS and $p\bar{p}$ collisions and can reveal the underlying mechanism of factorization breaking. New results, obtained with the H1 experiment at HERA, are presented for the production of high p_T jet pairs as components of the dissociating photon system X in the diffractive photoproduction process $ep \to eXY$, where Y is dominantly a proton. The dijet cross sections are well described by a resolved pomeron model with diffractive DIS pomeron parton densities if a suppression factor $S(z_{I\!P})$ is applied which depends on the fractional pomeron momentum entering in the hard subprocess. The data are compared to models which are able to describe $p\bar{p}$ diffractive scattering.

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