

Hard Diffraction at HERA

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Diffractive parton densities are derived from inclusive measurements of diffraction at HERA. Their application, interfaced to next-to-leading-order QCD predictions, to other final states and processes allows the factorisation theorem to be tested in diffractive scattering. The H1 and ZEUS collaborations have made many measurements of different final states, with the most recent H1 results on dijet production presented. Results are presented for different methods of reconstructing a diffractive event and for deep inelastic scattering and photoproduction. The H1 data indicate that factorisation is not held in photoproduction processes. ZEUS has recently measured prompt photon production in diffractive photoproduction for the first time. These data should provide another handle on understanding whether factorisation is held in diffraction.

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