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Hard QCD and the hadronic final state at HERA

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The production of inclusive jets, dijets and trijets was investigated with the high statistics HERA II DIS data. The H1 experiment have determined the corresponding cross sections with improved experimental precision and sophisticated method of unfolding, compared to previous measurements. The results were compared with NLO QCD calculations.

Signals of QCD instanton-induced processes were searched for in neutral current deep-inelastic scattering with high momentum transfer Q^2 by H1 collaboration. Compared to earlier publications, the limits were improved by an order of magnitude and for the first time were challenging predictions.

Measurements with the ZEUS data in DIS of isolated photons were reported, including studies of kinematic variables sensitive to the event dynamics. The measurements were compared to MC models and to theoretical calculations of Baranov-Lipatov –Zotov based on kt factorisation QCD approach.

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