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Jet production and α_s measurements at CMS

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We present CMS results related to jet production cross sections, which pose a central test to perturbative QCD predictions. Results include recent jet, dijet, multijet differential cross section and hadronic event shape measurements performed with 2011 data taken at center-of-mass energy of 7 TeV and 2012 data taken at 8 TeV. Recent α_s extraction results are presented. We also present searches for BFKL effects in the azimuthal correlations of forward-backward and forward-central jets at 7 TeV, and studies of the transition from the perturbative to the non-perturbative regime using minijets at 8 TeV.

Summary

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