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Jet production measurement with the ATLAS detector (15' + 5')

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Jet production is the hard QCD process with the widest kinematic reach and largest cross section at the LHC. Jets at large rapidity intervals, and jets which are not back-to-back, can also probe novel QCD evolution and radiation patterns. Comprehensive measurements of inclusive and dijet production are presented, as well as the production cross sections for jets containing beauty and charmed hadrons. The measurements are compared to state-of-the-art NLO QCD calculations, and the sensitivity to the parton distributions in the proton is also investigated.

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