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Measurement of the jet production properties with the ATLAS detector

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The measurements of the production cross sections of inclusive, di- and tri-jet events probe the dynamics of QCD and can constrain the parton proton structure. Double-differential cross sections are measured and compared to expectations based on next-to-leading order QCD calculations as well as to next-to-leading order Monte Carlo simulations. The study of di-jet systems with a veto on additional jets probe QCD radiation effects. These measurements constitute precision tests of QCD in a new energy regime.

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