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Inclusive and dijet jet production measured with the ATLAS detector

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Inclusive jet and dijet double-differential cross sections have been measured in proton-proton collisions using the ATLAS detector. The cross sections were measured using jets clustered with the anti- k_T algorithm. The data are compared to expectations based on next-to-leading order QCD calculations corrected for non-perturbative effects, as well as to next-to-leading order Monte Carlo predictions. Ratios of cross sections measured at different centre-of-mass

energies allow for reduced experimental and/or theoretical uncertainties. An NLO QCD analysis of the data indicates constraining power for the gluon density.

Primary author: KLEIN, Uta (University of Liverpool (GB))

Presenter: KOGAN, Lucy Anne (University of Oxford (GB))

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