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## Precision measurements of jet production at the ATLAS experiment

Monday, 26 July 2021 14:15 (15 minutes)

Measurements of jet production are sensitive to the strong coupling constant, high order perturbative calculations and parton distribution functions. In this talk we present the most recent ATLAS measurements in this area at a centre-of-mass energy of sqrt(s) = 13 TeV. We present measurements of variables probing the properties of the multijet energy flow and of the Lund Plane using charged particles. We will also present new measurements sensitive to the strong coupling constant. All of the measurements are corrected for detector effects and are compared to the predictions of state-of-the-art Monte Carlo event generators.

## **Collaboration / Activity**

ATLAS

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