

# XXVIII International Workshop on Deep-Inelastic Scattering and Related Subjects



Contribution ID: 410

Type: **Contributed Talk**

## Constraining QCD with inclusive jet measurement with 13 TeV data in CMS

Measurements of jet production in proton-proton collisions at the LHC are crucial for precise tests of QCD, improving the understanding of the proton structure and are important tool for searches for physics beyond the standard model. We present recent measurements of double-differential cross section of jet production at centre-of-mass energy of 13 TeV with 2016 data and compare them to various predictions. We also report studies on the impact of these measurements on the determination of QCD parameters, like the strong coupling and parton density functions of the proton, as well as constraints on 4-quark contact interactions.

**Primary authors:** CMS COLLABORATION; CONNOR, Patrick (DESY)

**Presenter:** CONNOR, Patrick (DESY)

**Session Classification:** Structure function and parton densities

**Track Classification:** Structure Functions and Parton Densities