

14th International Workshop on Boosted Object Phenomenology,  
Reconstruction, Measurements and Searches in HEP

Contribution ID: 66

Type: **Presentation**

## Measurement of multijet events with ATLAS

*Thursday 18 August 2022 09:20 (15 minutes)*

The production of jets at hadron provides stringent tests of perturbative QCD. We present the latest measurements using proton-proton collision data collected by the ATLAS experiment at  $\sqrt{s}=13$  TeV. We will discuss the measurement of new event-shape jet observables defined in terms of reference geometries with cylindrical and circular symmetries using the energy flow's distance. The results are unfolded for detector effects and compared to the state-of-the-art next-to-leading order parton shower generators. If ready, the measurement of strong coupling constant will be presented using the ratio of 3-jet to 2-jet events.

**Author:** ATLAS COLLABORATION

**Presenter:** ALVAREZ ESTEVEZ, Manuel (Universidad Autonoma de Madrid (ES))

**Session Classification:** Heavy Ions