



Contribution ID: 414

Type: **Oral Presentation**

Novel probes of QCD: precision measurements of jet substructure at the LHC

Tuesday 30 July 2019 14:40 (25 minutes)

Theoretical calculations for jet substructure observables with accuracy beyond leading-logarithm have recently become available. Such well-understood observables provide novel probes of QCD in a new, collinear regime at the LHC. In this talk, measurements by the ATLAS, CMS, ALICE and LHCb collaborations of such jet substructure observables are presented. These measurements may be performed in a variety of topologies, and may be unfolded to particle-level to make comparisons with Monte Carlo simulations and analytical calculations.

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Session Classification: QCD & Heavy Ions

Track Classification: QCD & Heavy Ions