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ATLAS Jet Reconstruction, Energy Scale Calibration, and Tagging of Lorentz-boosted Objects

Wednesday 23 August 2017 16:30 (30 minutes)

The reconstruction and calibration of jets in ATLAS is a critical component in producing precise analyses, whether precision measurements or searches for new physics. This talk describes the steps involved in deriving the jet energy scale (JES) and presents the results. Calibrations and their uncertainties are shown using the full 2015 + 2016 datasets. The study of jet substructure has also become increasingly more prevalent throughout a wide array of searches and measurements. We also report on the latest results from ATLAS for the reconstruction and tagging of large-R jets as well as the calibration and determination of the uncertainties associated with these techniques.

Topic:

Topic: High Energy Particle Physics

Summary

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