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## **The ATLAS JetEtmiss Energy Scale Calibration and Uncertainties**

*Monday, August 8, 2016 6:30 PM (2 hours)*

The measurement of the jet energy scale using data from  $\sqrt{s} = 13$  TeV collisions is presented. A sequence of MonteCarlo based calibrations restore jets to the particle scale and use jet properties to significantly improve the jet resolution. A combination of measurements using Z+jet, gamma+jet, and multijet events is used to calibrate jets in data and to measure systematic uncertainties. A 5% data/MC difference is observed, and corrected for, at low  $p_T$ . Uncertainties are as low as 1% at  $p_T^{\text{jet}}$  of 200 GeV, and for the first time insitu measurements are extended to 2 TeV. More data from the 2016 run is expected to further reduce uncertainties and improve the results.

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