Contribution ID : **611** Type : **Oral presentation**

ATLAS jet and missing ET reconstruction, calibration, and performance

Thursday, 3 July 2014 12:20 (20)

ATLAS has achieved a very high precision on jet and missing transverse energy performance by the use of advanced calorimeter-based topological clustering and local cluster calibration, event-by-event pile-up subtraction methods, and in situ techniques to correct for the residual jet energy response difference between data and simulation. Tracking information is being combined with calorimeter to further improve the jet and missing ET performance. ATLAS has also commissioned several new powerful tools for for the analysis and interpretation of hadronic final states at the LHC such as jet substructure, jet mass, quark-gluon discrimination, and jet tagging tools for the identification of boosted heavy particles. An overview of the reconstruction, calibration and performance of jets, missing ET, and jet substructure and tagging at ATLAS is presented.

Summary

Primary author(s) : ATLAS, Collaboration (CERN)

Presenter(s) : BERTA, Peter

Session Classification : Detector RD and Performance

Track Classification : Detector RD and Performance