



Contribution ID: 1121

Type: Parallel Session Talk

Performance of Jet, Missing Transverse Energy and Tau Reconstruction with ATLAS in pp Collisions at $\sqrt{s} = 7$ TeV

Thursday, 22 July 2010 16:35 (15 minutes)

This talk presents the first results on jet, missing transverse energy (MET) and tau reconstruction performance, as obtained with the ATLAS detector in 7 TeV proton-proton collisions at the LHC. Jets are reconstructed with the anti-kt jet algorithm using calorimeter clusters, or as so called 'track jets' using the Inner Detector only. The performance of the jet reconstruction will be compared to the Monte Carlo expectation. Methods to determine the jet energy scale and resolution will also be discussed. The MET performance has been studied in randomly-triggered events, soft proton proton collisions and collisions with jets at high transverse momentum where MET is expected to be zero. First MET measurements are also presented for events where a W-boson is produced. Finally, a status of tau reconstruction, identification and triggering in ATLAS will be given.

Primary author: ATLAS COLLABORATION**Presenter:** SCHWARTZMAN, Ariel (SLAC National Accelerator Laboratory)**Session Classification:** 01 - Early Experience and Results from LHC**Track Classification:** 01 - Early Experience and Results from LHC