

Contribution ID: 448

**Type: Poster Presentation** 

## Muon identification and performance in the ATLAS experiment

Muon reconstruction and identification play a fundamental r ole in many analyses of central importance in the LHC run-2 Physics programme. The reconstruction algorithms and identification criteria used in ATLAS in the analyses of pp collision data at = 13 TeV are presented. Their performances are measured in data based on the decays o f Z and Jψ to pair of muons, that provide a large statistics calibration sample. Reconstruction and identification efficiencies are evaluated, as well as momentum scale s and resolutions, and the results are used to derive precise MC simulation correction

## **Experimental Collaboration**

ATLAS

Presenter: BARONE, Gaetano (Brandeis University (US))

Session Classification: Poster session

Track Classification: Top and Electroweak Physics