

Muon reconstruction performance in ATLAS at Run-II

The ATLAS muon reconstruction has been improved for the Run-II of the LHC.

In this presentation, we will discuss the new reconstruction algorithm and its performance as measured during the early run of the LHC in 2015 at $\sqrt{s}=13$ TeV using samples of $J/\psi \rightarrow \mu\mu$ and $Z \rightarrow \mu\mu$ decays.

Reconstruction efficiency, transverse momentum resolution and momentum scales are measured in the various regions of the detector and for muon momenta between 6 and hundreds of GeV.

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