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Definition and performance of muon physics object at CMS

The performance of muon reconstruction and identification in CMS has been studied on data collected in pp collisions at $\sqrt{s}$ = 7 TeV and 8 TeV at the LHC. We present measurements of muon reconstruction and trigger efficiencies, fake rates, and momentum scale and resolution, and discuss methods developed to differentiate prompt isolated muons from non-prompt, cosmic, and beam-halo muons.

Primary author: JEITLER, Manfred (Austrian Academy of Sciences (AT))

Presenter: TROCINO, Daniele (Northeastern University (US))

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