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Performance of CMS muon reconstruction in pp collisions at $\sqrt{s} = 7$ TeV

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The performance of muon reconstruction in CMS has been studied on a sample of muons collected in pp collisions at $\sqrt{s} = 7$ TeV at the LHC. Measured distributions of basic muon-track quantities are well reproduced by the Monte Carlo simulation. Efficiencies of various high-level trigger, identification, and reconstruction algorithms have been measured and compared with the expectations from Monte Carlo simulation. Results for the relative muon momentum resolution and the muon momentum scale will be reported.

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