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High-pt muon performance at 13 TeV

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The reconstruction of high-momentum muons presents peculiar aspects due to the increasing probability of showering in the detector material, and is critically dependent on the relative alignment of the muon chambers with the inner tracker and among themselves. On the other hand, high-momentum muons constitute a clean signature for the decay of new hypothesised high-mass Z' or W' bosons, or boosted particles. Dedicated reconstruction algorithms have been developed in CMS. The performance of reconstruction and identification has been studied in the widest accessible momentum range: efficiencies, momentum resolution and absolute momentum scale, on both data and MC simulations at 13 TeV.

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