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CMS RPC efficiency using tag-and-probe method in LHC Run 3

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The CMS experiment is collecting proton-proton collisions at the center-of-mass energy of 13.6TeV in LHC Run 3. RPC detector is one of the sub-detectors of the CMS muon system which is capable of triggering and reconstruction of muons. In this poster, efficiency of the CMS RPC detector during the Run 3 data taking period is presented. The Tag-and-Probe method with the decay of the Z boson to two muons was used in measuring the efficiency of the operating RPC detector. Efficiency is derived from the matching of RPC hits with probe muons extrapolated up to the RPC.

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