

CMS RPC efficiency measurement using the Tag and Probe method

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We measured the efficiency of CMS RPC detectors in pp collisions at 13TeV using the tag and probe method. A muon from Z boson decay is selected as a probe of efficiency measurement, reconstructed using the CMS inner tracker and the rest of CMS muon systems. The overall efficiency of CMS RPC chambers during the 2016-2017 collision runs are measured to be 96% for a group of high-efficiency chambers.

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