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The CMS RPC detector performance during Run-2 data taking

The CMS experiment, located at the CERN Large Hadron Collider, has a redundant muon system composed by three different detector technologies: Cathode Strip Chambers (in the forward regions), Drift Tubes (in the central region), and Resistive Plate Chambers (both in the central and forward regions). The RPCs are designed mainly as a trigger detector but they contribute also to the muon reconstruction. Thus the monitoring and the analysis of the system performance are necessary and essential for the final data quality. The main detector characteristics and the hit efficiency and cluster size will be presented in the poster. The stability of the system in the conditions of high instantaneous luminosity and high number of PU events will be presented in a view of history monitoring and stable trend.

Experimental Collaboration

CMS

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