Contribution ID: **65** Type: **not specified**

L1 Trigger effciency estimation of RPC detector in CMS experiment

Wednesday, 10 February 2010 17:00 (2 hours)

Here we present the methods for the estimation of L1 trigger effciency of RPC detector placed in the muon chamber of CMS experiment. Two independent methods, Tag&Probe and DTvsRPC, have been tested for RPC trigger eficiency measurement using cosmic muon data and Monte-Carlo cosmic muon sample. The cosmic muon data is collected during Cosmic Run At Full Tesla (CRAFT08) during the year 2008 using CMS experiment. Two methods maninly dier in geometrical acceptence regions (cracks/gaps). RPC trigger eficiency estimated using Tag&Probe and DTvsRPC methods is in good agreement (differ by 2-3%) in the central regions of the RPC detector. RPC trigger eficiency comes out to be almost 90% in the central region of the detector using both the methods.

Primary author: Ms JINDAL, Monika (Panjab University Chandigarh)

Presenter: Ms JINDAL, Monika (Panjab University Chandigarh)

Session Classification: Poster session