RPC2012 - XI Workshop on Resistive Plate Chambers and Related Detectors



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RPC monitoring tools in the CMS experiment

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The Resistive Plate Chambers are used in the CMS experiment as a dedicated muon detector system which covers the whole geometric acceptance up to a pseudorapidity of 1.6 with a total of 480 chambers in the barrel and 432 in the endcaps. In order to guarantee the quality of the data collected and to monitor on-line the detector performance, a set of tools have been developed in CMS and heavily used in the RPC system: the web based monitoring (WBM) tools and the data quality monitor (DQM) tools. The former ones is a set of java servlets which allows the user to check the performance of the hardware during data taking providing distributions and history plots of all the parameters. The latter is composed by a set of algorithms which can work both during data taking, and off line, running on stored data, to check the quality of reconstructed physical variables. Both these monitoring systems will be described here with a particular emphasys on their structure, functionalities and performance.

Summary

abstract for a POSTER

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