

CMS improved Resistive Plate Chambers (iRPC) upgrade: Web-based automation for Quality Control

Thursday 18 July 2024 20:40 (20 minutes)

In the context of the CMS improved Resistive Plate Chambers (iRPC) upgrade, a strategy has developed that leverages cosmic muon triggers along with web-based automation for Quality Control (QC) steps. A key aspect of this approach was finding a way to bridge slow and fast control parameters, a crucial step towards achieving full automation. This integration not only enhances the efficiency and accuracy of the QC process for the iRPC system but also streamlines the workflow and significantly reduces the likelihood of human errors. This development is a valuable improvement in the CMS experiment's upgrade efforts, contributing to more reliable and efficient operations in high-energy physics research.

Alternate track

1. Computing, AI and Data Handling

I read the instructions above

Yes

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Session Classification: Poster Session 1

Track Classification: 12. Operation, Performance and Upgrade (incl. HL-LHC) of Present Detectors