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Performance of the LHCb RICH detectors during the LHC Run II

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The LHCb RICH system, with the ability to provide hadron identification over a wide momentum range (2-100 GeV/c), is one of the big strengths of the LHCb experiment in the search for New Physics in decays of hadrons containing the charm and bottom quarks. Extensive maintenance took place during the Long Shutdown 1 of the LHC. A significant number of photon detectors (HPDs) were refurbished using new vacuum technologies, and the aerogel radiator was removed. The RICH information is also available for all lines in the High Level Trigger for the first time. The start of Run II of the LHC saw the beam energy increase to 6.5 TeV per beam and a new trigger strategy for LHCb with full online detector calibration. The challenges of the new conditions and the performance of the RICH detectors inferred from data collected in 2015 and 2016 will be presented.

Registered

Yes

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