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Aging studies for the CMS Improved Resistive Plate Chambers

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The CMS Phase 2 upgrade is an important project towards the High-Luminosity LHC (HL-LHC) phase. One of the main projects is the development of the new iRPC detectors that will be installed in the forward region of CMS. To validate the performance of the new gaps with HL-LHC radiation levels, experimental tests have been conducted at the CERN Gamma Irradiation Facility (GIF++) facility. One chamber equipped with electronics has been irradiated and its parameters are monitored in function of the accumulated charge. In this work we discuss the chamber performance and the future perspectives.

Presenter: BARROSO FERREIRA FILHO, Mapse (Universidade do Estado do Rio de Janeiro (BR))

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