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Eco gas studies for the CMS iRPC for the High Luminosity LHC

We will present a summary of the performance of the improved RPC (iRPC) using several RPC gas mixtures with a low Global Warming Potential (GWP). We have replaced the Freon (R134a) from the official CMS gas mixture with HFO and CO₂. The results show promising mixtures for the iRPC for the High Luminosity LHC

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