RPC 2018 - THE XIV WORKSHOP ON RESISTIVE PLATE CHAMBERS AND RELATED DETECTORS

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The CMS RPC system calibration

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The RPC detector system consists of a total of 1056 double-gap chambers, installed both in the barrel and endcap regions. Thus covering the pseudo-rapidity region up to $|\eta| \le 1.9$, the system contributes to all muon track finders. Establishing the correct HV working points is of primary importance in order to ensure a stable performance reaching optimal efficiency and in the same time to keep the average cluster size of 2 further to the trigger requirements. During 2016 and 2017 data taking, three HV scans have been performed, exploring proton-proton collision data at \sqrt(s) = 13 TeV, different instantaneous luminosity and also with different concentration of Isobitane in the working gas mixture. The latest results from the HV scan in 2017 will be reported. The stability of the detector and comparison with previous scans during Run1 and Run2 will be presented as well.

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