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A study of gas mixtures and HV feedback in a RPC single-gap monitoring system

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Environmental variables such as temperature, atmospheric pressure and humidity affect dramatically the response of RPC detectors, as well as of all gas-based detectors. A redundant single-gap system composed of 15 RPC detectors is in operation in a cosmic ray telescope at Frascati, with ADC charge readout and detailed environmental sensor system. Results on new algorithms for online compensation of the effect of environmental variables changes will be presented, as well as on fine-grained gas mixture scan studies.

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