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Development of large GRPC with a very fine segmentation readout electronics

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Glass Resistive Plate Chambers (GRPC) are excellent candidates to study volcanoes structure. They provide high efficiency and excellent homogeneity to detect the muons crossing the volcanoes.

Few chambers of 1m2 equipped with an embedded readout electronics of 1 cm2 segmentation that were developed to be the active medium of a sampling hadronic calorimeter proposed for the future International Linear Collider experiments were used to perform a preliminary study of the Puy De Dôme structure.

The output of this study confirms the capability of these detectors and allows one to envisage using them for future studies of the volcanoes structure.

Auteur principal: M. LAKTINEH, imad (in2p3-ucbl)

Orateur: M. LAKTINEH, imad (in2p3-ucbl)

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