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Glass Resistive Plate Chambers in the OPERA experiment

OPERA is an underground neutrino oscillation experiment to search the $\nu\tau$ appearance from a pure $\nu\mu$ beam produced in the CNGS. A large VETO system, consisting of two 10.0×9.2 m² planes made of electronic detectors, is foreseen to flag the events due to the neutrino interactions with the rock surrounding the OPERA detector. The VETO is realized using Glass Resistive Plate Chamber (GRPC) developed at LNGS. In this poster we describe the detectors, its construction and the test performed in the dedicated OPERA test facility to validate the chambers before the installation in the Hall C of the underground laboratories.

Author: DI GIOVANNI, Adriano (Gran Sasso)

Presenter: DI GIOVANNI, Adriano (Gran Sasso)