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Development of 1 mm low resistivity Bakelite plate for thin-gap RPC detector

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As part of the R&D efforts for ATLAS Forward Muon detector upgrade, we are developing low resistivity Bakelite plate with about 1mm thickness for thin-gap RPC as the added level-1 trigger system arming to provide high rate capability and small cluster size to achieve fine granularity required for the upgrade in super-LHC running environment.

The resistivity, uniformity of the Bakelite plate thickness and surface quality, as well as the long term stability with respected to temperature and humidity variance are studied at USTC laboratory. Measurements on new Bakelite plate properties, along with results of a TGRPC prototype cosmic ray test will be reported.

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