

Characterisation of the first prototype of large Micromegas chamber “LM2 Module-0” for the upgrade of the ATLAS Muon System

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Overview of the construction and characterisation of the first prototype of large Micromegas chamber “LM2 Module-0” for the upgrade of the ATLAS Muon System is presented. Performance studies of the detectors with cosmic rays and X-ray source are shown and discussed. Preliminary results of operating the detector under high rate irradiation at the CERN GIF++ irradiation facility and the future plans are also presented in the report.

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