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Assembly and cosmic bench test of large area Micromegas Detectors for the ATLAS Muon Spectrometer Upgrade

The steadily increasing luminosity of LHC requires an upgrade to high rate and high-resolution capable detector technology for the inner end cap of the muon spectrometer of the ATLAS experiment. For precision tracking, large area Micromegas quadruplets are produced, in order to provide 8 consecutive active layers with 100 micron spatial resolution per individual plane. As for validation of the detectors, cosmic muons are an extremely powerful tool to scan over their full surface in terms of gain, homogeneity and efficiency. We report on the assembly and overall performance of one of these Micromegas quadruplets.

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