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Development of large-area resistive-strip micromegas chambers for the ATLAS muon system upgrade

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Resistive-strip micromegas are bulk micromegas chambers incorporating an efficient spark protection scheme. They are particularly suited for high-rate applications in a harsh radiation environment. They were developed for the upgrade of the ATLAS muon system upgrade (Small Wheel) for the high luminosity LHC. The characteristics of the resistive micromegas chambers, highlights of the development, and the status and the prospects of the work on large-area chambers with two-coordinate readout are presented. In a more general approach, the technology's strong points and its limitations are discussed.

for the collaboration

Muon ATLAS MicroMegas Activity (MAMMA) Collaboration

Primary authors: Dr WOTSCHACK, Joerg (CERN); Dr BYSZEWSKI, Marcin (CERN)

Presenter: Dr BYSZEWSKI, Marcin (CERN)

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