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Development of a Read Out Driver for Micromegas at ATLAS

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Microstructured gaseous detectors are a possible replacement technology for the inner part of the forward-muon spectrometer of the ATLAS detecor, when the luminosity of the LHC will be increased beyond its design Value.
During the winter 2012 shutdown, several small Micromegas detectors have been installed in ATLAS between the inner tracker and the calorimeter, as well as on the small wheel section. To read out these detectors along with the other ATLAS systems, a Readout driver has to be developed, that integrates this subsystem in the ATLAS data acquisition infrastructure, including the trigger handling, slow control, event building and data formatting.
I report on the firmware development and the current status of this project, that is based on the SRS scalable readout system with Virtex6 FPGAs.

for the collaboration

On behalf of the Muon ATLAS MicroMegas Activity (MAMMA) Collaboration

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