MPGD 2015 & RD51 Collaboration meeting



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Status of the electronics & DAQ for the Triple-GEM project for the upgrade of the CMS forward muon spectrometer

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The CMS Collaboration is planning to use triple GEM detectors as part of its muon system upgrade in order to enhance the muon tracking and triggering capabilities in the region of 1.5 < | eta | < 2.2. Triple-GEM detectors have been identified as a suitable technology to sustain the specific high radiation environment in that region. In CMS the triple-GEM detectors will be equipped with the VFAT3 chip currently under design. All the tests and the development of the electronics and DAQ system are performed up to now with the existing TOTEM VFAT2 chip which is read-out by a new microTCA-based electronics system. In this contribution we will report on the status of the development of the CMS GEMVFAT microTCA-based readout system. We will report on first tests performed with a full size CMS triple GEM detectors in the laboratory as well as in a test beam.

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