

Commissioning and integration testing of the DAQ system for the CMS GEM upgrade

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The CMS muon system will undergo a series of upgrades in the coming years to preserve and extend its muon detection capabilities during the High Luminosity LHC. The first of these will be the installation of triple-foil GEM detectors in the CMS forward region with the goal of maintaining trigger rates and preserving good muon reconstruction, even in the expected harsh environment. In 2017 the CMS GEM project is looking to achieve a major milestone in the project with the installation of 5 super-chambers in CMS; this exercise will allow for the study of services installation and commissioning, and integration with the rest of the subsystems for the first time. An overview of the DAQ system will be given with emphasis on the usage during chamber quality control testing, commissioning in CMS, and integration with the central CMS system.

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