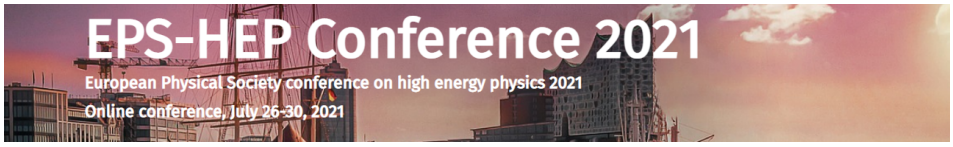

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Performance studies for the CMS GE2/1 muon upgrade

The Large Hadron Collider (LHC) will soon be upgraded to prepare for the high-luminosity phase. To cope with the increase in background rates and trigger requirements, an upgrade is planned to the CMS muon system by installing additional sets of muon detectors based on Gas Electron Multiplier (GEM) technology. The GE2/1 station will consist of 72 GEM chambers, comprised of 288 modules, covering the pseudorapidity range between 1.62 and 2.43. Performance studies for the prototype GE2/1 modules and fully integrated chambers will be presented, together with the plan for a GE2/1 demonstrator chamber to be installed in the cavern before the start of LHC Run-3.

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