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R&D for the upgrade of the CMS muon system

The CMS muon system is based on three types of gaseous detectors, RPC, CSC and DT. While operating very well in the present conditions, upgrades are foreseen for each of the subsystems, necessary to guarantee its delicate role of muon triggering and tracking also in the High Luminosity phase of LHC, foreseen to start after Long Shutdown 3 in 2024 and to last for about 10 years.

Studies devoted to assess the system performance stability for the future will be presented, and the plans about the new DT and CSC electronics will be outlined. In addition, the strategy - which is being developed - to complement the existing system with new detectors, based on GEM or improved RPC technologies, will be shown.

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