

## Phase-2 Upgrades of the CMS Detector

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After the ongoing Run 3 of the CERN LHC, the CMS detector will undergo a set of upgrades in order to meet the challenges of the upcoming High Luminosity era of the LHC. Among the more ambitious aspects of the Phase-2 upgrades of CMS are the replacement of the entire silicon tracking system, a new high-granularity combined electromagnetic calorimeter system for the endcap region of the detector, the addition of timing layers for pile-up rejection and particle ID, and the extension of the muon system with a new RPC and GEM chambers. The level-1 trigger and data acquisition will also be upgraded to handle the larger interaction rate. This talk will summarize the upgrades of CMS and their impact on physics performance with an eye towards synergies with the EIC program.

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