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Status of the Phase-2 Tracker Upgrade of the CMS experiment at the HL-LHC

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The Phase-2 Upgrade of the CMS experiment is designed to prepare its detectors for operation at the High Luminosity Large Hadron Collider (HL-LHC). The upgraded collider will begin operation in 2027, featuring new challenging conditions in terms of data throughput, pile-up and radiation, reasons for which the tracker detector will be entirely replaced by a new design. We present the current development activities ongoing in CMS aimed at the design, test and validation of the components of the tracker detector, and its read-out, calibration, control, and data processing chains.

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