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Overall Status of the CMS High Granularity Calorimeter

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The endcap calorimeters of CMS will be replaced, during LHC long shutdown 3 (~2024-2025), with the High Granularity Calorimeter (HGCAL). Hexagonal silicon sensors will be used in the high radiation regions, complemented by scintillator tiles with on-tile SiPMs in the less harsh regions. Through an extensive R&D campaign in the past two years, the design of the HGCAL has converged, with many choices on structure and technology having been made, leading to the submission of the HGCAL TDR in November 2017. An overall status of the HGCAL is presented, summarising the main design choices that have been made, the expected performance and the work still to be done.

Secondary topics

Applications

Design concepts for future calorimeter at the energy frontier

Primary topic

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