

Scintillator Tiles for the High Granularity Calorimeter of the CMS Detector at the HL-LHC

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The CMS Phase II upgrade, High Granularity Calorimeter (HGCAL) will have fine transverse and longitudinal segmentation to allow for superior particle identification and pileup rejection in the high radiation and large event pileup environment of the endcap region. A significant portion of the hadronic portion of the HGCAL will be instrumented with scintillator tiles directly coupled to Silicon Photomultipliers. We report on the proposed design and R&D associated with tile fabrication, characterization and assembly for this detector.

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