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Latest results from beam tests of CMS HGICAL silicon and scintillator/SiPM prototypes

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CMS is building a High Granularity sampling Calorimeter (HGICAL), which will replace the existing endcap calorimeters (electromagnetic and hadronic) as part of the CMS phase-II upgrade to prepare for the High-Luminosity phase of the LHC (HL-LHC), due to start around 2027. The HGICAL includes two compartments: the CE-E and CE-H for measurements of electromagnetic and hadronic showers respectively. The CE-E uses lead, copper and copper-tungsten as absorbers, with silicon sensors as active elements. The CE-H uses stainless steel as absorber and a mixture of silicon and scintillator as active elements, with silicon in the high-radiation regions and scintillator in the lower radiation regions. We present results of 2018 CERN beam tests of a 28-layer CE-E, including energy and position resolution, as well as first beam tests at DESY of scintillator tileboards, equipped with irradiated SiPMs

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