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Phase 1 Upgrade of the CMS Hadron Barrel Calorimeter

The Phase 1 upgrade of the CMS Hadron Calorimeter detector (HCAL) involved installing silicon photomultipliers (SiPM) to measure the scintillator light output with better signal/noise and upgrading the read-out electronics, allowing for increased longitudinal segmentation and better performance. This talk will summarize the design, testing, installation, and commissioning of the HCAL Barrel Phase 1 upgrade. Performance results for the HCAL endcap and forward detectors using Run 2 data will be presented, together with prospects for Run 3.

Primary experiment

Primary author: ISIK, Candan (Cukurova University (TR))

Presenter: ISIK, Candan (Cukurova University (TR))

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