

The timing performance of the TOFHIR2 ASIC

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We present an overview of the TOFHIR2 ASIC design and experimental results on the timing performance. TOFHIR2 will be used in the front-end readout of the barrel section of the new MIP Timing Detector (BTL) developed for the HL-LHC upgrade of the CMS experiment. The BTL sensors are based on LYSO:Ce scintillation crystals coupled to SiPMs.

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