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Precision Timing with the CMS Endcap Timing Layer for Phase 2

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The MIP Timing Detector (MTD) of the Compact Muon Solenoid (CMS) is designed to provide precision timing information (with resolution of ~ 40 ps) for charged particles (MIPs), with hermetic coverage up to a pseudo-rapidity of $|\eta|=3$. The endcap region of MTD, called the Endcap Timing Layer (ETL), covers the high radiation pseudo-rapidity region between $|\eta|=1.6$ and 3.0 . We present an overview of the MTD ETL design and report on status of the R&D for the MTD ETL.

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