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BTL Cooling Plate Studies for CMS and MTD Upgrade

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The Barrel Timing Layer (BTL) is a central component of the MIP Timing Detector (MTD) of the Compact Muon Solenoid (CMS). Precision timing information from this detector is necessary for the challenges of High-Luminosity LHC operations. These upgrades require an increase in the cryogenic capacity provided to the BTL system. Prototype cooling plates have been in development and have been tested in liquid CO₂ at Fermilab under heating and cooling cycles. Results will be used for further development of the cooling system for the BTL detector.

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