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Development of large-area UFSD sensors for the CMS MIP Timing Detector

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The CMS MIP Timing Detector, proposed for the HL-LHC upgrade, will be instrumented with O(10) square meters of ultra-fast Silicon detectors (UFSD) in the forward region. These UFSDs are aimed at measuring the time of passage of each track with a precision of about 30 ps. In this presentation, the progress towards the development of this large area detector is reviewed, pointing out the current status and the R&D path toward the final sensor design.

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