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Characterization of Low Gain Avalanche Detectors for the CMS MIP Timing Detector

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The endcap portion of the CMS MIP Timing Detector (MTD), denoted the Endcap Timing Layer (ETL), will be instrumented with silicon-based low gain avalanche detectors (LGADs). We present the status of recent R&D efforts for LGADs, with a focus on sensor characterization from bench tests and dedicated test beams, and including studies of time resolution, geometry, doping, and uniformity, along with a discussion of future plans.

Primary author: ABREU NAZARIO, Andres (The University of Kansas (US))

Presenter: ABREU NAZARIO, Andres (The University of Kansas (US))

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