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Characterization of Low Gain Avalanche Detectors for LHC experiments JOSEF SORENSON, University of New Mexico — Characteristics of Low Gain Avalanche Detectors (LGADs) before and after exposure to radiation are presented. Experiments at the upcoming High-Luminosity Large Hadron Collider (HL-LHC) will operate under high pile-up conditions and in a high radiation environment. LGADs are a promising technology for achieving precise time resolution in a hadron collider. Research is underway to optimize the LGAD design, in particular the radiation hardness and precise timing.

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