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Type: Talk (invited speaker only)

[D06] Low Gain Avalanche Detectors for 4-dimensional tracking applications in severe radiation environments

Thursday 8 October 2020 22:30 (30 minutes)

For the High Luminosity upgrade of the CERN Large Hadron Collider (HL-LHC), the collider will reach a peak instantaneous luminosity of $5 \times 10^{34} \text{ cm}^{-2}\text{s}^{-1}$, with a total integrated luminosity of 3000 fb^{-1} after around 12 years of expected life time. The pile-up during the p+p+ collisions is expected to reach values of ~ 200 and the experiments are expected to be exposed to a radiation levels up to $1.6 \times 10^{16} \text{ neq/cm}^2$ at the innermost layers of the detectors.

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Session Classification: Timing Detector II