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Ghosts as self-sustained avalanches in Ti-LGADs with different self-quenching times: Linking experimental data, hypotheses and simulations

jeudi 21 novembre 2024 14:33 (3 minutes)

In this presentation we will show results from our comprehensive study on inter-pixel region in trench-isolated Low Gain Avalanche Detectors. The focus will be on recently observed atypical self-induced signals with extremely large amplitude that are also very extended in time. We will be comparing the results from study on Trenched LGADs with results from study on Trenched PINs. We will be also showing the results obtained on irradiated samples. We will offer some hypotheses that will be tested using simulation tools.

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