

Performance of thin LGADs after long term annealing

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Thin LGAD detectors from CNM were irradiated with neutrons to 6×10^{14} and 3×10^{15} cm⁻² and annealed in steps up to 10000 min at 60C. After each annealing step charge collection and leakage currents were measured to determine gain, break-down performance and evolution of leakage currents. It was found that apart from leakage current which decreases with annealing in accordance with expectations the annealing has little effect on sensor performance.

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