

Annealing effects on LGAD performance

Tuesday, 19 November 2019 10:00 (20 minutes)

Several sets of LGADs produced by HPK and CNM within the framework of ATLAS high granularity timing detectors were irradiated with reactor neutrons up to fluences of $6 \times 10^{15} \text{ cm}^{-2}$. After the irradiation they underwent controlled annealing at 60C. At each annealing step the sensors were measured with Sr90 electrons at -30C in timing setup. The evolution of signal and time resolution at different annealing times will be presented.

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Session Classification: Precision Timing Detectors - LGADs