



Contribution ID: 9

Type: **not specified**

High temperature annealing of irradiated LGADs

Thursday, 23 June 2022 11:10 (20 minutes)

LGADs irradiated up to 6×10^{15} n/cm² with reactor neutrons were annealed at high temperatures between 300C and 450C. Annealing was for 30 minutes in steps of 50C. CV measurements were made after each annealing step and a significant increase of gain layer depletion voltage was observed. Charge collection and timing resolution were measured with electrons from Sr-90 showing beneficial effect of short term high temperature annealing of irradiated LGADs.

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Session Classification: Low Gain Avalanche Detectors