

Radiation hardness of 6" SoI CNM LGADs

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The new 6" CNM SoI LGADs are studied under neutron irradiation on fluences up to 5×10^{15} neq/cm². Gain reduction, dark rate, leakage current and breakdown voltage is estimated for two different doping concentrations of the gain layer. Through charged particle measurements, the time resolution and gain is estimated for selected fluences in three different temperatures (-10C, -20C and -30C).

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