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The effect of temperature and irradiation on the LGAD gain mechanism

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In this contribution, I will present the data currently available on the effects of temperature and irradiation on the gain mechanisms of LGAD. The data currently available regard both the multiplication mechanism in the bulk and in the gain layer. From these measurements, a model of the behavior of future LGAD productions vs temperature and fluence can be established.

Primary authors: CARTIGLIA, Nicolo (INFN Torino (IT)); SADROZINSKI, Hartmut (SCIPP, UC Santa Cruz); SEIDEN, Abraham (University of California, Santa Cruz (US))

Presenter: CARTIGLIA, Nicolo (INFN Torino (IT))

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