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Studies of effective inter-pad distance of different HPK and FBK LGADs

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Effective interpad distance of non-irradiated and irradiated LGAD prototypes from HPK and FBK was measured and compared to simulations. The effective interpad distance is substantially larger than nominal before irradiations and becomes nominal after irradiations. The measurements were compared with simulations which showed that the field lines from a sizeable region at the edge of the pad end on JTE, hence the carriers generated there don't undergo multiplication.

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