

Status of the RD50 funding request for ”detectors with enhanced multiplication”

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This project aims to fabricate p-type pixel detectors with a small gain, already shown in their pre-irradiated responses. It can be hoped that the gain implemented in the non-irradiated devices could retain some effect also after irradiation, with a higher multiplication factor with respect to standard structures. In addition, a moderate multiplication value will allow the fabrication of thinner devices with the same output signal. The signal gain should be limited to avoid crosstalk, and to prevent the signal from exceeding the dynamic range of readout electronics.

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