The 38th RD50 Workshop (online Workshop)

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3D n-on-n detectors

Wednesday 23 June 2021 09:40 (20 minutes)

In my talk I will present the results of the first fabrication of n-on-n 3D detectors. The sensors have been irradiated with neutrons at fluences up to 1E17n/cm 1 M-ev/equivalent. Using the TCT set up available at CNM we have been able to do the measurements before irradiation both of the charge collection efficiency and the timing performance using a 50x50 pixel array with a pitch of 50um. Using a CFD of 50% we can get a timing resolution of 83ps before irradiation at room temperature. Reuslts on the irradiated detectors will also be presented.

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