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Characterisation of Neutron-Irradiated Deep Diffused APDs

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In view of the future HL-LHC upgrade, a variety of technologies are being considered for particle tracking. One of these technologies is Deep Diffused APDs (DD-APDs). Several DD-APDs were characterised through CV/IV and TCT measurements before and after neutron irradiation. The irradiation took place at the Jožef Stefan Institute (Ljubljana, Slovenia). The fluences to which the devices were exposed are 3E13, 6E13, 3E14 and 1E15 n/cm^2. The results obtained from these studies will be shown in this presentation.

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