

41st RD50 Workshop on Radiation Hard Semiconductor Devices for Very High Luminosity Colliders (Sevilla, Spain)



Contribution ID: 42

Type: **not specified**

TID study of IHEP-IME LGAD with shallow carbon

Thursday, 1 December 2022 13:50 (20 minutes)

The IHEP-IME version 2 and 3 sensors with shallow carbon were irradiated up to 2 MGy by Co60 gamma ray. The performance of the IHEP-IME v2 W7 with carbon worked well after irradiation which satisfied the requirements of the HGTD. The effect of different gaps on radiation hardness were also studied. The leakage current, inter-pad resistance and capacitance were tested before and after irradiation.

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Session Classification: Low Gain Avalanche Detectors