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Recents advancements in UFSD performances

This presentation focuses on 2 aspects of UFSD performances: the improved temporal resolution obtained with thinner sensors and the higher radiation resistance of sensors with deep gain implants.

Using sensors produced by FBK, the temporal resolution of sensors with an active thickness of 25, 35, 45, and 55 microns will be shown and the radiation hardness of gain implants position at 0.5 - 1.5 micron will be presented.

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