

42nd RD50 Workshop on Radiation Hard Semiconductor Devices for Very High Luminosity Colliders (Montenegro)

Wednesday, 21 June 2023

LGAD - Conference Hall (11:40 - 16:20)

-Conveners: Valentina Sola; Roberta Arcidiacono

| time | [id] title | presenter |
|-------|---|---|
| 11:40 | [5] Preparations for LGAD characterization with 30 MeV protons | KRIZEK, Filip |
| 12:00 | [1] Gain degradation study after neutron and proton irradiations in Low Gain Avalanche Diodes | ZAREEF, Fasih |
| 12:20 | Lunch break | |
| 13:50 | [37] First measurements of irradiated CNM LGADs with carbon enriched gain layer | HOWARD, Alissa Shirley-Ann HITI, Bojan KRAMBERGER, Gregor |
| 14:10 | [8] Correlation between leakage current and charge gain in irradiated LGADs | KRAMBERGER, Gregor |
| 14:30 | [61] Fast QA tests for LGADs | KRAMBERGER, Gregor |
| 14:50 | [6] Measurements of the RSD performance at a test beam (DESY) | CARTIGLIA, Nicolo |
| 15:10 | [27] Characterisation of the EXFLU1 batch from FBK | SOLA, Valentina |
| 15:30 | [10] Deep-Junction LGAD and adaptive gain layer RD50 proposal | Dr MAZZA, Simone Michele |
| 15:50 | [57] Discussion: LGAD 1 | Dr PELLEGRINI, Giulio KRAMBERGER, Gregor |

Thursday, 22 June 2023**LGAD - Conference Hall (09:00 - 12:40)****-Conveners: Nicolo Cartiglia; Gianluigi Casse**

| time | [id] title | presenter |
|-------|--|--|
| 09:00 | [15] Investigating the effect of processing and isolation layout design parameters of IP region with 2 p-stops and bias ring on charge collection and hole amplification in IP region: Case studies on Type 10 from Ti-LGAD batch (W11) and UFSD 4.0 (W18) | LASTOVICKA MEDIN, Gordana BOZOVIC, Ivona DOKNIC, Jovana |
| 09:20 | [34] Characterization of W7 Type 10 and W7 Type 4 and comparison to W11 Type 10 LGAD prototypes | Prof. LASTOVICKA-MEDIN, Gordana DOKNIC, Jovana BACKOVIC, Vanja |
| 09:40 | [14] Radiation-Induced Bulk Defects and their Impact on the Charge Multiplication in Inter-Pad region in TI-LGADs: A Comparative Study between Irradiated and Non-Irradiated LGAD Samples with Two Trenches i | LASTOVICKA MEDIN, Gordana BOZOVIC, Ivona DOKNIC, Jovana BACKOVIC, Vanja |
| 10:00 | [23] Electrical characterization and attenuation factor determination of AC-LGAD run at CNM | MANOJLOVIC, Milos |
| 10:20 | [9] Simulation of Landau fluctuations on timing performance of LGADs | DEBEVC, Jernej |
| 10:40 | Coffee Break | |
| 11:10 | [30] RD50 Project proposal: Partial Activation of Boron to enhance the radiation tolerance of the gain implant – PAB | SOLA, Valentina |
| 11:30 | [46] Discussion: LGAD 2 | Dr PELLEGRINI, Giulio KRAMBERGER, Gregor CARTIGLIA, Nicolo |