

Session Program

21-24 Jun 2022



The 40th RD50 Workshop (CERN)

Low Gain Avalanche Detectors

CERN, 6/2-024 - BE Auditorium Meyrin

Thursday 23 June

09:00

Low Gain Avalanche Detectors

Session | Location: CERN, 6/2-024 - BE Auditorium Meyrin

09:00–09:20

High-Precision Tracking with Large Pixels using Thin Resistive Silicon Detectors

Speaker

Nicolo Cartiglia

09:20–09:40

TCAD simulation of impact ionization in non-irradiated LGADs

Speaker

Michael Moll

09:40–10:00

New impact ionization parameters

Speaker

Esteban Curras Rivera

10:00–10:20

Effect of Carbon co-implantation on radiation hardness of IHEP_IMEv2 LGAD

Speaker

Yuan Feng

10:20–10:50

Coffee break

10:50–11:10

Measurements on last IMB-CNM LGADs production

Speaker

Mr Jairo Antonio Villegas Dominguez

11:10–11:30

High temperature annealing of irradiated LGADs

Speaker

Gregor Kramberger

11:30–11:50

Recent results of the carbonated USTC-IME LGADs and fabrication of the AC-LGADs at USTC NRFC

Speaker

Xiao Yang

11:50–12:10

Before and after irradiation performance of IHEP-IME LGAD sensors

Speaker

Xuwei Jia

12:10

13:40

Low Gain Avalanche Detectors

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13:40-14:00

Review of our understanding on the limits of LGAD as studied by the low energy ions, low energy protons and femtosecond laser beams: Past, present and future experiments

Speaker

Gordana Lastovicka Medin

14:00-14:20

The interpad distance study in Trench Isolated LGAD (TI-LGAD) using Femtosecond laser based SPA and TPA

Speaker

Gordana Lastovicka Medin

14:20-14:40

The gain reduction mechanism in Low Gain Avalanche Detectors investigated with the TPA-TCT

Speaker

Sebastian Pape

14:40-15:00

Observation and characterisation of the charge screening effect in LGAD

Speaker

Valentina Sola

15:00-15:20

Guard-ring design optimization in thin UFSD

Speaker

Marco Ferrero

15:20-15:50

Coffee break

15:50-16:10

Geometry optimization of AC-coupled LGADs for high precision 4D tracking

Speaker

Dr Simone Michele Mazza

16:10-16:30

Timing Resolution Comparison between LGADs and 3D Sensors

Speaker

Montague King

16:30-17:00

Discussion: LGADs

Speakers

Gregor Kramberger, Nicolo Cartiglia, Dr Salvador Hidalgo

17:00