

Session Program

29 November 2022 to 2 December 2022



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

Low Gain Avalanche Detectors

ETSI Seville, Salón de Grados, 2nd Floor
Escuela Técnica Superior de Ingenieros Camino de los Descubrimientos s/n 41092 Isla de la Cartuja,
Sevilla Spain

Thursday 1 December

09:00

Low Gain Avalanche Detectors

Session |

Location: ETSI Seville, Salón de Grados, 2nd Floor, Escuela Técnica Superior de Ingenieros Camino de los Descubrimientos s/n 41092 Isla de la Cartuja, Sevilla Spain

09:00–09:20

Spatio-temporal dynamics of charge transport in LGAD probed with focused ion beams

Speaker

Andreo Crnjac

09:20–09:40

Study of 2 P-stop layout of standard segmented LGAD with decreased gain to gain distance using TCT-Single Photon Absorption with microscopic resolution enabled by femtosecond laser from ELI Beamlines: Case study of LGAD Type 10

Speaker

Gordana Lastovicka Medin

09:40–10:00

TI-LGAD: beta, test beam and TCT characterization

Speaker

Matias Senger

10:00–10:20

A two-prong approach to the simulation of DC-RSD: TCAD and Spice

Speaker

Tommaso Croci

10:20–10:22

Announcement: Sensors special issue on Radiation Sensors and Detectors"

Speakers

Michael Moll, Xin Shi

10:25

10:50

Low Gain Avalanche Detectors: Low Gain Avalanche Detectors

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10:50–11:10

Update of AC-LGAD at CNM

Speaker

Neil Moffat

11:10–11:30

Characterization of neutron- and proton-irradiated LGADs from Teledyne e2v

Speaker

Martin Gazi

11:30–11:50

Measurements on NLGAD detectors

Speaker

JAIRO ANTONIO VILLEGAS DOMINGUEZ Not Supplied

11:50-12:10 Radiation Tolerance Study of CNM-IMB Run #15246**Speaker**

Efren Navarrete Ramos

12:10-12:30 Study of impact ionization coefficients in Low Gain Avalanche Diodes**Speaker**

Esteban Curras Rivera

12:30-12:50**Determination of impact ionization parameters for low gain avalanche detectors produced by HPK****Speaker**

Alissa Shirley-Ann Howard

12:50

13:50

Low Gain Avalanche Detectors**Session** |**Location:** ETSI Seville, Salón de Grados, 2nd Floor, Escuela Técnica Superior de Ingenieros Camino de los Descubrimientos s/n 41092 Isla de la Cartuja, Sevilla Spain**13:50-14:10 TID study of IHEP-IME LGAD with shallow carbon****Speaker**

Prof. Yunyun Fan

14:10-14:30 Deep Junction LGAD: a new approach to high granularity LGAD**Speaker**

Simone Michele Mazza

14:30-14:50 Edge-TCT simulation of LGADs in RASER**Speaker**

Chenxi Fu

14:50-15:10 AC-LGADs for 4D reconstruction: from ATLAS to EIC**Speaker**

Gabriele D'Amen

15:10

15:40

Low Gain Avalanche Detectors**Session** |**Location:** ETSI Seville, Salón de Grados, 2nd Floor, Escuela Técnica Superior de Ingenieros Camino de los Descubrimientos s/n 41092 Isla de la Cartuja, Sevilla Spain**15:40-16:00****Two Photon Absorption Technique of Transient Current vs Femtosecond Laser based TCT -Single Photon Absorption in the context of the study of LGAD's processing parameters: Case study of segmented LGADs****Speaker**

Jovana Doknic

16:00-16:20**Research on LGAD with TCT and laser beam from ELI: Observing the changes in charge transport and in signal formation in Pad and Interpad regions as function of varied initially generated charge density****Speaker**

Vanja Backovic

16:20-16:40

Interpad distance study on TI-LGAD Wafer 11, using Two-Photon Absorption-TCT technique

Speaker

Prof. Gordana Lastovicka-Medin

16:40-17:00

Hadron damage investigation of FBK and HPK Low Gain Avalanche Detectors

Speaker

Jiahe Si

17:00-17:40

Discussion

Speakers

Nicolo Cartiglia, Roberta Arcidiacono

17:40-17:50

Workshop Dinner Instructions

18:10