

Session Program

16-21 Nov 2025



The 14th international "Hiroshima" Symposium on the Development and Application of Semiconductor Tracking Detectors (HSTD 14)

2. Avalanche-based Sensors

Academia Sinica, 2F, Activities Center
128 Section 2, Academia Road, Nankang, Taipei 115201, Taiwan

Wednesday 19 November

09:00

2. Avalanche-based Sensors: Wed-1

Session |

Location: Academia Sinica, 2F, Activities Center , 128 Section 2, Academia Road, Nankang, Taipei 115201, Taiwan |

Convener: XIONGBO YAN

09:00–09:20

Towards a 20 ps timing detector with hybrid and CMOS monolithic LGADs for the future ALICE 3 experiment at LHC

Speaker

Sofia Strazzi

09:20–09:40

Radiation effects in 4H-SiC PN diodes, LGAD sensors, and MOSFET transistors

Speaker

Jiri Kroll

09:40–10:00

4D-Tracking with DC-coupled Resistive Silicon Detectors (DC-RSDs)

Speaker

FEDERICO SIVIERO

10:00–10:20

Evaluation of dopant removal to design innovative LGADs: measurements and simulations

Speaker

Dr Francesco Moscatelli

10:20

11:00

2. Avalanche-based Sensors: Wed-2

Session |

Location: Academia Sinica, 2F, Activities Center , 128 Section 2, Academia Road, Nankang, Taipei 115201, Taiwan |

Convener: Maurizio Boscardin

11:00–11:20

Why LGADs work?

Speaker

Nicolo Cartiglia

11:20–11:40

Investigating the Proton Energy Dependence of Radiation Induced Gain Layer Degradation in Low Gain Avalanche Detectors

Speaker

Veronika Kraus

11:40–12:00

Next generation TI-LGADs on Timepix4

Speaker

Uwe Kraemer

12:00–12:20

Development of Pixelated Capacitive-Coupled LGAD (ACLGADpix) Detectors

12:20

Speaker
Koji Nakamura

14:10

2. Avalanche-based Sensors: Wed-3

Session |
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Convener: Shigeki Hirose

14:10-14:30 **LGAD characterization for CMS ETL**

Speakers
CMS Collaboration,

14:30-14:50
Research of Low Gain Avalanche Detectors for High-Precision 4D Tracking in Future Collider Experiments

Speaker
Mei Zhao

14:50-15:10 **N-type LGADs for Particle and Photon Detection**

Speaker
Giovanni Paternoster

15:10