

Session Program

6-10 Jul 2025

IWORLD 2025

Detector Systems

Bratislava, Slovakia

Monday 7 July

09:00

Detector Systems: Opening, Session 1

Session |

Location: Bratislava, Slovakia, Slovenská technická univerzita v Bratislave Fakulta informatiky a informačných technológií Ilkovičova 6276/2 842 16 Bratislava 4 |

Convener: Christer Froejd

09:00–09:20

IWORD 2025 opening

Speakers

Andrea Sagatova, Christer Froejd

09:20–09:50

Detector Developments for the for the Swiss Light Source Upgrade

Speaker

Anna Bergamaschi

09:50–10:10

Characterization and Performance Evaluation of ITk Pixel Production Modules for the ATLAS Upgrade

Speaker

Md Arif Abdulla Samy

10:10–10:30

ITS3 - A truly cylindrical tracker for ALICE

Speaker

Anna Villani

10:30

11:00

Detector Systems: Session 2

Session |

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Convener: Ralf Hendrik Menk

11:00–11:20

ATLAS Inner Tracker Upgrade Pixel Detector

Speaker

Umberto Molinatti

11:20–11:40

Performance, calibration and optics robustness of the ATLAS Tile Calorimeter

Speaker

Tibor Zenis

11:40–12:00

Performance of the Timepix3 Detector Network in ATLAS for Relative Luminosity Measurement in Run-3

Speaker

Catalina Lesmes Ramirez

12:00–12:20

Deploying Timepix3 in Low-Radioactivity Natural Settings: Integrated Workflow for Charged Particle Detection and Imaging

Speaker

Dr Raju Kumar

12:20–12:40

New results from fast timing iLGAD sensors on Timepix4**Speaker**

Daan Jasper Oppenhuis

12:40

14:00

Detector Systems: Session 3**Session** |**Location:** Bratislava, Slovakia, Slovenská technická univerzita v Bratislave Fakulta informatiky a informačných technológií Ilkovičova 6276/2 842 16 Bratislava 4 |**Convener:** Heinz Graafsma

14:00–14:20

Large-Area CdTe Detector for X-ray Imaging and Overcoming Crystal Imperfections in CdTe Sensors**Speaker**

Dr Zuzana Melníková

14:20–14:40

First characterization of a GaAs-based Timepix4 detector assembly for X-ray imaging applications**Speaker**

Simone Velardita

14:40–15:00

The influence of temperature changes on the spectrometric behavior of Timepix3 detectors with different sensors**Speaker**

Nikola Kurucová

15:00–15:20

A 1M charge integrating hybrid pixel detector for electron diffraction**Speaker**

Khalil Daniel Ferjaoui

15:20

Tuesday 8 July

14:00

Detector Systems: Session 6

Session |

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Convener: Cinzia Da Via

14:00–14:30

An overview of HEXITEC and HEXITEC MHz and its applications

Speaker

Dr Diana D Caprotti

14:30–14:50

C100: A 4-Megapixel, 2000 FPS Wafer Scale Direct Electron Detection Sensor for 100keV Electron Cyro-Microscopy

Speaker

Daniel Brown

14:50–15:10

Second-Generation Percival Sensor and System for upgraded soft X-ray imaging at FELs and Synchrotrons

Speaker

Cornelia Wunderer

15:10–15:30

The prototype DynamiX camera system, a high-frame rate, high-dynamic range hard X-ray integrating detector for 4th generation synchrotrons

Speaker

Simon Knowles

15:30

16:00

Detector Systems: Session 7

Session |

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Convener: Valeria Rosso

16:00–16:20

Optimization of a 3D Micro-Structured Neutron Imaging Sensor Through Combined Simulation Approaches

Speaker

Matteo Polo

16:20–16:40

The SABRE South Experiment at the Stawell Underground Physics Laboratory

Speaker

Zuzana Slavkovská

16:40–17:00

CYGNUS: Directional recoil detection for dark matter, particle physics and nuclear applications

Speaker

Prof. Gregory Lane

17:00–17:20

Development of Accurate Dosimetry SiPM-based Detectors for FLASH RT

Speaker

Georgios Mystridis

17:20–17:40

Development of Real-Time FPGA computing for Hyperspectral Imaging with CITIUS

Speaker

Mr Kyosuke Ozaki

17:40