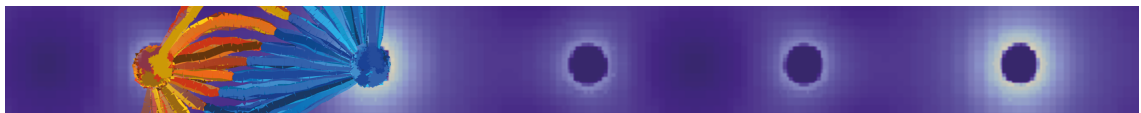**Session Program**

7–9 May 2025

6th Allpix Squared User Workshop

Applications and studies

Nikhef
Science Park 105 Amsterdam The Netherlands

Wednesday 7 May

15:35

Applications and studies

Session | **Location:** Nikhef, Science Park 105 Amsterdam The Netherlands

15:35–16:00

Exploring the capability of different 3D-trench electrode sensors for 4D tracking

Speaker
Jixing Ye

16:00–16:25   Simulation of 3D Pixel Sensors in a Test Beam Setup Using Allpix²

Speaker
Pal Kristian Ofstad

16:25–16:50

Optimization of a 3D neutron imaging sensor through combined simulation approaches

Speaker
Matteo Polo

16:50–17:15

Implementation of Charge Carrier Mobility and Radiation Damage Models for Diamond Sensors in Allpix Squared

Speaker
Mr Faiz Ishaqzai

17:20

Thursday 8 May

09:00

Applications and studies
Session | **Location:** Nikhef, Science Park 105 Amsterdam The Netherlands

09:00–09:25

Detector Response Simulation of a Hardpix Detector for Neutron Measurements on the Moon

Speaker
Stefan Gohl

09:25–09:50 **Placeholder**

09:50–10:15 **Validation of Results of 2S Modules in Test Beam**

Speaker
Andrew Mastronikolis

10:15–10:40 **Simulation of CMOS Strip Sensors**

Speaker
Naomi Davis

10:40

11:20

Applications and studies
Session | **Location:** Nikhef, Science Park 105 Amsterdam The Netherlands

11:20–11:45

Si3: Simulation-Driven Design of a Next-Generation Semiconductor Detector for PET and SPECT Imaging

Speaker
Mr Luca Terenzi

11:45–12:10 **electronCT Simulations with Allpix Squared**

Speaker
Mr Malinda De Silva

12:10–12:35

The 100μPET project: Simulation of the next generation PET scanner with monolithic silicon pixel sensors

Speaker
Jihad Saidi

12:35–13:00

Simulation of Enhanced Lateral Drift Sensors for Future Lepton Colliders

Speaker
Gianpiero Vignola

13:00

14:00

Applications and studies
Session | **Location:** Nikhef, Science Park 105 Amsterdam The Netherlands

14:00–14:25 **Charge collection studies of 65 nm CMOS MAPS for ALICE ITS3**

Speaker

Stefania Perciballi

14:25–14:50 **Simulation of MAPS in a 65 nm CMOS Imaging Technology**

Speaker

Larissa Mendes

14:50–15:15

3

Simulations of the Monolithic Active Pixel Sensors for the Octopus Project

Speaker

Anastasiia Velyka

15:15–15:40 **SImulations of LGAD test structures**

Speaker

Petja Skomina

15:40

14:25–14:50 **Simulation of MAPS in a 65 nm CMOS Imaging Technology**

Friday 9 May

09:00

Applications and studies

Session | **Location:** Nikhef, Science Park 105 Amsterdam The Netherlands

09:00–09:25

Monte Carlo Simulation of Low-Gain Avalanche Detectors Using Allpix²

Speaker

Fatima Zahra Rimchi

09:25–09:50

Investigating the Timing Performance of Silicon Carbide Particle Detectors using Simulations

Speaker

Sebastian Onder

09:50