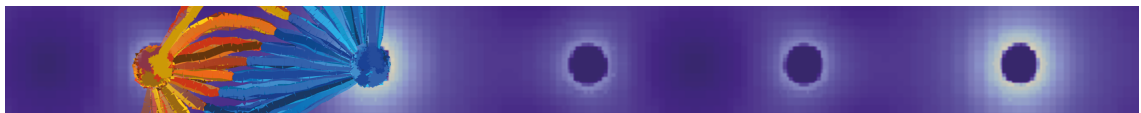**Session Program**

7-9 May 2025

6th Allpix Squared User Workshop

New features and developments

Nikhef
Science Park 105 Amsterdam The Netherlands

Wednesday 7 May

14:15

New features and developments
Session | **Location:** Nikhef, Science Park 105 Amsterdam The Netherlands

14:15–14:40

Integrating Microelectronics Simulation into the Allpix Squared Framework

Speaker
Elio Sacchetti

14:40–15:05

PixESL: a Virtual Prototyping Framework for Pixel Detector Electronics in High Energy Physics.

Speaker
Mahdi Zahedi

15:05

Thursday 8 May

16:10

New features and developments
Session | **Location:** Nikhef, Science Park 105 Amsterdam The Netherlands

16:10–16:35

Fast Lookup Tables for Parametrizing Charge Digitization in HL-LHC ATLAS ITk detectors

Speaker
Jeff Dandoy

16:35–17:00 **Charge Carrier Propagation based on pre-calculated Lookup-Tables**

Speaker
Corentin Lemoine

17:00–17:25 **Optimizing Charge Transport Simulation for Hybrid Pixel Detectors**

Speaker
Dr Xiangyu Xie

17:25–17:50

A Repulsive Effect: Modelling Coulomb Interactions in a 1 Micron X-ray CT Sensor

Speakers
Garrett Kunkler, Rickard Brunskog

17:50

Friday 9 May

09:50

New features and developments
Session | **Location:** Nikhef, Science Park 105 Amsterdam The Netherlands

09:50–10:20 **Ongoing Developments**

10:20