

Session Program

31 August 2026 to 4 September 2026

PSD14: International Conference on Position Sensitive Detectors

Posters

Queen Mary University of London, London, UK, Mile End Campus: Graduate Centre Foyer and Peston Lecture Theatre

Wednesday 2 September

13:00

Posters: Posters and Exhibitions

Session | **Location:** Graduate Centre Foyer / Engineering Foyer | **Convener:** Seth Zenz

13:00-13:01

Process development to assemble MAPS into detector-modules for the R3B Target Recoil Si-Tracker

Speaker

Konrad Sutowski

13:01-13:02

The Multitube detector for the CSPEC cold shopper spectrometer: construction, validation and performance measurements

Speaker

William Saenz

13:02-13:03

Inner Tracking System 2 (ITS2) - Data Quality Control and Calibration

Speaker

Svetlana Kushpil

13:03-13:04

Early Performance Results of the CMS Phase-2 Tracker Cosmic Test Stand

Speaker

Andrew Mastronikolis

13:04-13:05

Installation and performance of Jungfrau detectors at Diamond Light Source

Speaker

Dr John Matheson

13:05-13:06

Prototype Design and Characterization of HouYi, a Burst-mode Charge-Integration Readout Chip for High-Z Pixel Detector

Speaker

Wei Wei

13:06-13:07

Verifying the 3D energy deposition profile of an MeV proton bunch using a liquid scintillator in an ion-acoustic experiment.

Speakers

Calvin Dyson, Calvin Dyson, Calvin Dyson

13:07-13:08

Investigation of a Novel Segmented Point-Contact BEGe Detector.

Speaker

Emily Richardson

13:08-13:09

A 20-Gbps PAM4 pre-amplifier for optical receivers in high-energy physics experiments using 55-nm CMOS

Speakers

Xiongbo Yan, hangqi chen

13:09-13:10

First evaluation of ColorPix-3 ASIC**Speakers**

Jan Broulim, Karolina Lavickova

13:10-13:11

A 6-ps Event-Driven Circular-Interpolation Time-to-Digital Converter in 55-nm CMOS**Speakers**

Xiaoting Li, 蒋辉 jianghui

13:11-13:12

A novel sub-10ps event-driven TDC utilizing pulse-interleaved architecture**Speaker**

黄文豪 huangwenhao

13:12-13:13

Novel Readout Architectures for RPC Detectors with Reduced Channel Count: The TOMAR and CREW Approaches**Speaker**

Lidia Lappo

13:13-13:14

Optimization of X-ray Radiography Instrument and CT Reconstruction for Electric Wheelchair Lithium-Ion Battery Module**Speaker**

Ms Donghee Kim

13:14-13:15

Upgrade of the Belle II vertex detector with depleted monolithic CMOS active pixel sensors**Speaker**

Adrian Bevan

13:15-13:16

Neutron spectroscopy with nitrogen-filled spherical proportional counters**Speaker**

Isabella Oceano

13:16-13:17

Real-Time FPGA Tracking and Vertex Reconstruction for the MUonE Silicon Tracking System**Speaker**

Benjamin Lawrence-Sanderson

13:17-13:18

The ATLAS High-Granularity Timing Detector for the HL-LHC: project status and results**Speaker**

Theodoros Manoussos

13:18-13:19

Quality Control of Hybrid Pixel Modules for the CMS Inner Tracker Upgrade at the HL-LHC**Speaker**

Christina Giallombardo

13:19-13:20

Beam-Test Validation of a Real-Scale SiPM-Based Photodetector Prototype for the ePIC dRICH**Speaker**

Roberto Preghenella

13:20-13:21

Assessment of Low Gain Avalanche Detector Response for High-Dose-Rate Proton Beam Monitoring in LhARA**Speaker**

FATIMA ZAHRA RIMCHI

13:21-13:22

Track Reconstruction in Spherical Proportional Counters**Speaker**

Robert James Ward

13:22-13:23

Design and construction of the segmented plastic scintillator SiPM-readout anti-coincidence detector for ADAPT**Speaker**

Nicola Mazziotta

13:23-13:24

Low-pressure position resolution studies in planar and cylindrical geometries with the novel μ -RWELL MPGD**Speaker**

Lara Malpas

13:24-13:25

Identification and reconstruction of multi-pixel events for improved spectroscopic imaging with HEXITEC**Speaker**

Andrew Farnworth

13:25-13:26

Phase-2 upgrade of the CMS Outer Tracker: challenges and lessons from silicon strip module production**Speaker**

Inna Makarenko

13:26-13:27

Thermal Modelling Studies of the ATLAS ITk Strip Barrel Staves Using ANSYS**Speaker**

Ali Awais

13:27-13:28

Comparative 3D TCAD Analysis of Active-Edge Planar Pixel Sensors for HL-LHC Applications**Speaker**

Djemouai DJAMAI

13:28-13:29

Characterization and Application of the First Prototype of HEROC: An Analog Readout ASIC for Position-Sensitive Helium-3 Tube Neutron Detectors**Speaker**

Jiayi REN

13:29-13:30

High Precision 3D Time Projection Chamber R&D for Future Circular e+e- Collider**Speaker**

Huirong Qi

13:30-13:31

The NA62 Gigatracker and 4D track reconstruction**Speaker**

Elizabeth Sarah Long

13:31-13:32

Characterisation of Fully Depleted CMOS Monolithic Active Pixel Sensors for X-ray Imaging Applications**Speaker**

Mr Sami Ullah Khan

13:32-13:33

Development of a Multiplexed Readout Method for Scintillator Detectors at CSNS**Speaker**

Li Yu

13:33-13:34

Embedding thermal management in hybrid pixel detectors that operate HPGe sensors with room-T ASICs.**Speaker**

Konrad Sutowski

13:34-13:35

Radiation damage effects on the intra-pixel timing performance in planar silicon sensors**Speaker**

Ceyhan Sam

13:35-13:36

Results from Investigating the Tolerance of LGADs to High-Dose X-Ray Radiation**Speaker**

Mr Samuel Wood

13:36-13:37

Future Detector Materials for X-ray Photon Science Applications**Speaker**

Dr Matthew Veale

13:37-13:38

WLS Fiber Localization via DBSCAN Clustering of Dark Count Rate Spatial Excess in a CMOS SPAD Array**Speaker**

Fernanda Zapata Bascuñán

13:38-13:39

Testing of Analogue Pixel Test Structures for the ALICE 3 Inner Tracker**Speaker**

Alessandro Sturniolo

13:39-13:40

A dual-mode clocking circuit for serial data links in particle physics experiments**Speaker**

Xiaoting Li

13:40-13:41

Backside-Processed MAPS for Low-Energy Spectroscopy**Speaker**

Gaël Chevrier

13:41-13:42

Dose-efficient edge-illumination X-ray phase-contrast imaging with EIGER photon-counting detection**Speaker**

Alexander Duncalf

13:42-13:43

Solid State and Diamond Detectors for Medium to Low Energy (< 5 keV) Electrons**Speaker**

Gregory Lusk

13:43-13:44

Prototyping the ALICE 3 bRICH: a compact SiPM-based PID system with tracking and timing capabilities**Speaker**

Nicola Nicassio

13:44-13:45

A Single-Ended Multiplexed DOI-Capable PET Detector with 4-to-1 Crystal-to-Pixel Coupling and Edge-Effect Mitigation: An Optical Simulation Study**Speaker**

Ms Gabriela Jazvac

13:45-13:46

Design and Test Results of the SIPAC: A Prototype SiPM Readout ASIC for CEPC Calorimeters**Speaker**

邓云起 dengyq

13:46-13:47

Development of an Organic Semiconductor based Fast Neutron Camera**Speaker**

Divij Gupta

13:47-13:48

Fast luminosity detector based on the radiation hardness LGAD technology for SuperKEKB**Speaker**

Yunyun Fan

13:48-13:49

In silico comparison of scintillator based photon counting detectors with the semiconductor gold standard.**Speaker**

Oliver Pickford Scienti

13:49-13:50

Development of a Monolithically Integrated SPAD Detector and TIA Readout Circuit in a 55-nm CMOS Process**Speaker**

黄文豪 huangwenhao

13:50-13:51

Study of p-type magnetic Czochralski silicon diodes with SPA- and TPA-TCT**Speaker**

Henry Hiltunen

13:51-13:52

Flexible Organic Semiconductor Alpha Particle Sensors for Pipeline Inspection in the Nuclear Industry**Speaker**

Albanik Gashi

13:52-13:53

Extreme phase sensitivity at high X-ray energies**Speaker**

Ecem Erin Erin

14:00