

## **Session Program**

**12-17 Sept 2021**

# **PSD12: The 12th International Conference on Position Sensitive Detectors**

***Poster Session 2 (X-ray and Gamma Ray  
Detectors; Applications in Nuclear Physics  
and Nuclear Industry; Detectors for FELS,  
Synchrotrons and Other Advanced Light  
Sources; Detectors for Neutron Facilities;  
Novel Ionising Radiation Detection Systems)***

University of Birmingham, Teaching and Learning Building  
Edgbaston Campus University of Birmingham B15 2TT UK

## Wednesday 15 September

12:50

### Poster Session 2 (X-ray and Gamma Ray Detectors; Applications in Nuclear Physics and Nuclear Industry; Detectors for FELS, Synchrotrons and Other Advanced Light Sources; Detectors for Neutron Facilities; Novel Ionising Radiation Detection Systems)

Session |

**Location:** University of Birmingham, Teaching and Learning Building, Edgbaston Campus University of Birmingham B15 2TT UK |

**Conveners:** Martin Freer, Tony Price

12:50–12:51 **“RIPTIDE” - An innovative recoil-proton track imaging detector**

**Speaker**

Prof. Agatino Musumarra

12:51–12:52

**Simulations of charge collection of a gallium-nitride-based pin thin-film neutron detector**

**Speaker**

Zhongming Zhang

12:52–12:53

**AGIPD systems for the European XFEL, development and upgrades.**

**Speaker**

Alexander Klyuev

12:53–12:54

**Tristan10M detector: Characterization of a large area detector for time resolved experiments based on Timepix3 chip**

**Speaker**

Mr Zongde CHEN

12:54–12:55

**A programmable readout system for  $^3\text{He}/\text{BF}_3$  neutron detectors**

**Speaker**

Mr Yuri Venturini

12:55–12:56

**A hybrid pixel detector with 4D information for dynamic synchrotron radiation applications**

**Speaker**

Wei Wei

12:56–12:57

**HEPS-BPIX4: A Prototype Pixel Readout Chip Working in Single Photon Counting Mode with a Novel Charge Sharing Suppression Scheme**

**Speaker**

Shanshan Cui

12:57–12:58

**Online control of the gain drift with temperature of SiPM arrays used for the readout of  $\text{LaBr}_3:\text{Ce}$  crystals**

**Speaker**

Maurizio Bonesini

12:58-12:59

**Evaluation of the performance of the CCD236 Swept Charge Devices in lunar orbit using in-flight data.****Speaker**

Lawrence Jones

12:59-13:00

**Measurement of angular correlations in positronium decay using GaGG scintillator matrices with single-side readout by silicon photo-multipliers****Speaker**

Siddharth Parashari

13:00-13:01

**Flexible X-Ray Imaging Detectors Using Scintillating Fibers****Speaker**

Scott Wilbur

13:01-13:02

**The Hyperbolic drift chamber for ALERT****Speaker**

Gabriel Charles

13:02-13:03

**Automatic detection of scintillation light splashes using conventional and deep learning methods****Speaker**

Ms Yangfan Jiang

13:03-13:04

**Evaluation of Tomographic Image Reconstruction Techniques for Accurate Spent Fuel Assembly Verification****Speaker**

Hyemi Kim

13:04-13:05

**Characterisation of the spectroscopic properties of p-type Si sensors for X-ray spectroscopy****Speaker**

Ben Cline

13:05-13:06

**An experimental study on frequency-dependent noise-resolution trade-off of an indirect x-ray detector****Speaker**

Mr Hunwoo Lee

13:06-13:07

**A Monte Carlo study for system development in low dose Molecular Breast Imaging (MBI)****Speaker**

Hannah Brown

13:07-13:08

**Organic Electronic-based Neutron Detectors**

**Speaker**  
Adrian Bevan

13:08-13:09

**Generation and validation of a theoretical signal database for the Segmented Inverted-coaxial Germanium (SIGMA) Detector**

**Speaker**  
AHMED ALHARBI

14:00