

## **Session Program**

Sep 12 - 17, 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

## Wed, September 15

12:50 PM

### 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

**Organisers:** Martin Freer, Tony Price

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

**Speaker**

Prof. Agatino Musumarra

12:51 - 12:52 PM

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

**Speaker**

Zhongming Zhang

12:52 - 12:53 PM

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

**Speaker**

Alexander Klyuev

12:53 - 12:54 PM

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

**Speaker**

Mr Zongde CHEN

12:54 - 12:55 PM

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

**Speaker**

Mr Yuri Venturini

12:55 - 12:56 PM

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

**Speaker**

Wei Wei

12:56 - 12:57 PM

**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 PM

**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 PM

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

Lawrence Jones

12:59 - 1:00 PM

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

Siddharth Parashari

1:00 - 1:01 PM

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

Scott Wilbur

1:01 - 1:02 PM

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

Gabriel Charles

1:02 - 1:03 PM

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

Ms Yangfan Jiang

1:03 - 1:04 PM

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

Hyemi Kim

1:04 - 1:05 PM

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

Ben Cline

1:05 - 1:06 PM

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

Mr Hunwoo Lee

1:06 - 1:07 PM

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

Hannah Brown

1:07 - 1:08 PM

**Organic Electronic-based Neutron Detectors**

**Speaker**  
Adrian Bevan

1:08 - 1:09 PM

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

**Speaker**  
AHMED ALHARBI

2:00 PM