Session Program

12-17 Sept 2021

PSD12: The 12th International Conference on Position Sensitive Detectors

Poster Session 5 (Gas-based Detectors; Medical Applications of Position Sensitive Detectors)

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

Thursday 16 September

10:30

Poster Session 5 (Gas-based Detectors; Medical Applications of Position Sensitive Detectors)

Session |
Location: University of Birmingham, Teaching and Learning Building, Edgbaston Campus University of Birmingham B15 2TT UK |
Conveners: Tony Price, Konstantinos Nikolopoulos

10:30–10:31

Upgrade of the ATLAS Muon Spectrometer with high-resolution Drift Tube Chambers (sMDT) for LHC Run-3

Speaker
Elena Voevodina

10:31–10:32 **Precision tracking micro-pattern gaseous detectors at Budker INP**

Speaker
Timofei Maltsev

10:32–10:33 **Novel Thin-Scintillator Ion Beam Imagers**

Speaker
Dr Peter Friedman

10:33–10:34 **Proton-range verification in proton radiation therapy using PET**

Speaker
Mr Kyle Klein

10:34–10:35

Random and scatter noise reduction in PET imaging using entangled annihilation gamma photons with Compton PET pixel detectors

Speaker
Donghwan Kim

10:35–10:36

Detection module based on position-sensitive large-area Silicon photomultipliers

Speaker
Dr Fabio Acerbi

10:36–10:37

The development and evaluation of Compton camera (Gri+) for medical imaging applications

Speaker
Hamed Alshammari

10:37–10:38

Small-Strip Thin Gap Chambers for the Muon Spectrometer Upgrade of the ATLAS Experiment

Speaker
Xinfei Huang

10:38–10:39

CMS Improved Resistive Plate Chamber Studies in Preparation for the High Luminosity Phase of the LHC

Speaker

Cecilia Uribe Estrada

10:39–10:40   **First results of an oncological brachytherary fiber dosimeter**

Speaker

Agnese Giaz

10:40–10:41   **Bergen proton-CT project**

Speaker

Viljar Nilsen Eikeland

10:41–10:42

Position reconstruction studies with GEM detectors and the charge-sensitive VMM3a ASIC

Speaker

Lucian Scharenberg

10:42–10:43

A slice-test demonstrator for the upgrade of the CMS Drift Tubes at High-Luminosity LHC

Speaker

Carlo Battilana

10:43–10:44   **Panel TOF-PET imager**

Speaker

Rok Pestotnik

10:44–10:45   **Recent advances in MicroScint beam profiler technology**

Speakers

Michele Caldara, Veronica Leccese

10:45–10:46   **Longevity Study on the CMS Resistive Plate Chambers for HL-LHC**

Speaker

Reham Aly

10:46–10:47

Towards 2D Dosimetry using Monolithic Active Pixel Sensors and a Copper Grating

Speaker

Lana Beck

10:47–10:48

Pixelated silicon detectors for the measurement of small radiation fields in proton therapy

Speaker

Jens Weingarten

10:48–10:49

A hybrid deep-learning framework based on the Wasserstein-GAN with non-subsampled contourlet transform for noise reduction in low-dose CT

Speaker

Woosung Kim

10:49–10:50

ACHINOS: A multi-anode read-out for position reconstruction and tracking with spherical proportional counters

Speaker

Dr Patrick Ryan Knights

10:50–10:51

Improvement of three-material decomposition in spectral mammography using non-local means denoising

Speaker

Minjae Lee

10:51–10:52

Novel zigzag and diamond pattern for Micromegas and Gas-based detector

Speaker

Maxence Revolle

10:52–10:53 **Gas electron tracking detector for beta decay experiments**

Speaker

Dagmara Rozpedzik

11:30