

Session Program

5 March 2025



NuSec Technical Workshop 2025

Lunch and Posters

Institute of Physics, London
37 Caledonian Road London N1 9BU, UK

Wednesday 5 March

13:15

Lunch and Posters

Poster Session | **Location:** Institute of Physics, London, 37 Caledonian Road London N1 9BU, UK

PRETSL: Proton Recoil Tracking for Source Location

Speaker

Kristian Haverson

Neutron Capture in a Plasma Environment

Speaker

Dr Brian Appelbe

Enhancing 'Big-Data' Visualisation and Presentation in Data-Rich Nuclear Security Scenarios

Speaker

Dr Peter Martin

Development of a novel neutron detector using trapped ^3He

Speaker

Charles Barton

Stereo-scintillator detector arrangement for radioactive source localisation and characterisation within confined pipe networks

Speaker

Andrew Parker

Hyperspectral Imaging Inspection of Nuclear Assets through Lead Glass Windows

Speaker

Jaime Zabalza

From the Higgs boson to Detector Development for Nuclear Security

Speaker

Adrian Bevan

Advancing Neural Network Training Datasets for Mobile Radioisotope Detection

Speaker

James Biggs

Graph Acceleration and Contextual Analysis in Radioactive Source Localisation

Speaker

Fraser Holloway

WbLS in neutrino detectors for non-proliferation

Speaker

Deb Sankar Bhattacharya

Long range imaging system for alpha emitters

Speaker

Lingteng Kong

Muon Tracking in an Opaque Scintillator Detector**Speaker**

Jess Lock

AM-OTech: Antineutrino-Based Reactor Monitoring with LiquidO Opaque Scintillator Technology**Speaker**

Nicolo Tuccori

Active Interrogation System for Special Nuclear Materials: Principles and Initial Results**Speaker**

Mahmoud Bakr

A Fast Variable Intensity LED Flasher for the Calibration of Cherenkov Experiments**Speaker**

Amrit Nayak

Development of CsPbBr₃-Polymer Composite Materials for Direct Detection of Radiation**Speaker**

Stephen J Kearney

Machine learning enhanced analysis for compromised LiF:Mg,Ti. thermoluminescent glow-curves using an augmented seed dataset.**Speaker**

Lukasz Tomaszewski

Boron-loaded opaque scintillator as a low-cost directional neutron detector**Speaker**

Rob Foster

Optical characteristics and scintillation processes in 2D perovskite radiation detectors**Speaker**

Amy Dickinson

Quantum Dot-Based Scintillators for Neutron Detection**Speaker**

Dr Teppei Katori

Characterisation and performance of vapour-deposited lead halide perovskite films for radiation detection applications**Speaker**

Muzzamer Mohammad Zahid

14:00