

## **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 $^3\text{He}$**

**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 Leaded 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 CsPbBr<sub>3</sub>-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