

Poster Programme

- P1 Electrons for Neutrinos
Jhanzeb Ahmed, University of York
- P2 Beta-delayed gamma-ray Spectroscopy of ^{225}Fr to ^{225}Ra
Abdulrahman Alshammari, University of Ha'il, University of Surrey
- P3 Development of an isotopic inventory model for cross section measurements made at the National Ignition Facility
Dr James Benstead, AWE Nuclear Security Technologies
- P4 Measurement of Λ_b production in pp collisions with ALICE
Chris Carr, University of Birmingham
- P5 Hyperon Nucleon Interactions at CLAS
Joshua Bryce, University of York
- P6 Lifetime Measurement of the 2^+ Excited State in ^{78}Y
Cameron Cassells, University of the West of Scotland
- P7 Prompt and delayed spectroscopy of ^{196}At – installation of the novel detector SIGMA in the focal plane
Dr Sneha Das, University of Liverpool
- P8 Alpha-particle condensation in diluted neutron-rich oxygen nuclei
Miriam Davies, University of Surrey
- P9 LiquidO opaque scintillator radiation detectors for particle tracking
Max de Carlos Generowicz, University of Sussex
- P10 The KLong Experiment in Hall D at Jefferson Lab
Dr Stuart Fegan, University of York
- P11 Exploring and Developing an Analysis Framework for the Application of the Trojan Horse Method to Radiative Neutron Capture Reactions for Fusion
Patrick Galvin, University of Birmingham
- P12 Coulomb Excitation of $^{50-54}\text{Ca}$: E2 strength beyond $N = 28$
Dr Ting Gao, University of York
- P13 Interpolation of Lutetium Neutron Optical Model Potential Parameters using Bayesian Monte-Carlo Analysis
Adam Giambrone, University of Surrey
- P14 Investigating the Low Lying Nuclear Structure of ^{40}Ar using Coulomb Excitation
Adam Giambrone, University of Surrey
- P15 Investigation of Octupole Collectively in Light Actinides via Multinucleon Transfer Reactions with AGATA-PRISMA
Henry Hilton, University of Liverpool

- P16 Identification of excited states in ^{114}Ba using recoil-decay tagging
Ben Hogg, University of the West of Scotland
- P17 Lifetime measurements in ^{53}V
Dr Calum Jones, University of Surrey
- P18 In-situ spectral analysis for strontium-90/caesium-137 discrimination in contaminated land
Kate Williams, University of Lancaster
- P19 Determination of absolute gamma ray emission intensities and the half-life of $^{166\text{m}}\text{Ho}$
Dr Arshjot Kaur, National Physical Laboratory, UK
- P20 The effect of non-locality on the (p,t) transfer reaction applied to surrogate reaction modelling
Javier Kenyon-Reyero, University of Surrey
- P21 Probing shape coexistence in the neutron-deficient mercury isotopes with the Coulomb-excitation technique
Hannah Kleis, University of Liverpool
- P22 Fault-Tolerant Quantum Algorithms for Complex Nuclear Systems
Lloyd La Ronde, University of Surrey
- P23 Generalising the Formalism of Electroproduction with Polarised Targets by Implementing Moments Analysis
Dillon Leahy, University of Glasgow
- P24 MuDirac 1.2.5: A Sustainable Software Tool for Calculating Ground State Nuclear Properties Using Muonic X-Ray Measurements
Dr Leandro Liborio, Scientific Computing Department, STFC
- P25 Dosimetric Characterisation of a Reproducible Helium Ion Beam at the MC40 Cyclotron
Isobel Lock, University of Birmingham
- P26 The performance of the μ -RWELL MPGD at low pressures using the TACTIC test chamber
Lara Rose Malpas, University of York
- P27 The optimisation of neutron production from the d-Li reaction
John Murphy, University of Birmingham
- P28 Precision Measurements of MeV scale Quantum Entanglement and decoherence at TRIUMF
Nicholas Michaelides, University of York
- P29 A Unified Quantum-Geometric Framework for Generalized Artificial Neural Networks
Muhammad Nawaf Nafi, Bangladesh Air Force Shaheen College Dhaka

- P30 Constraining the Neutron Skin of ^{120}Sn via Dipole Polarizability and Charge Exchange Reactions
Amritpal Singh Nafria, Lamrin Tech Skills University
- P31 Isomers, Masses, and Half-lives in Neutron Rich Nuclei at the GSI Experimental Storage Ring
Zachary Nunns, University of Surrey
- P32 Modelling In-Plasma Nuclear Reactions with FISPACT
Dr Daniel Pitman-Weymouth, AWE
- P33 Preliminary Studies of Charged Pion Electroproduction on Deuterium
Kathleen Ramage, University of Glasgow
- P34 Hybrid Classical-Quantum Non-Perturbative Simulation of Nucleon-Nucleon Scattering
Saba Rani, University of Trento
- P35 Investigation of a Novel Segmented Point-Contact BEGe Detector
Emily Richardson, University of Liverpool
- P36 BUTON at Boulby - a testbed for monitoring the anti-neutrino flux from nuclear reactors
Dr Bjoern Seitz, University of Glasgow
- P37 In-Beam Gamma-Ray Spectroscopy of Neutron Rich Calcium isotopes
Joshua Sharpe, University of York
- P38 Exploring the Use of the Trojan Horse Method for Radiative Neutron Capture Reactions
Dominik Stajkowski, University of Birmingham
- P39 Producing covariances for fast neutron incident reactions on deformed isotopes using the TALYS code
Dr Aaron Stott, AWE
- P40 Bayesian calibration of optical potentials and propagation of uncertainties to compound nucleus reactions
Samuel Sullivan, University of Surrey
- P41 CeBr_3 scintillator development for HYPATIA: a next-generation hybrid gamma-ray detector array at the RIBF
Dr Luke Tetley, University of York
- P42 Machine Learning Enhanced Analysis of Silica Glass Jewellery Beads for Thermoluminescence Dosimetry Health Monitoring
Lukasz Tomaszewski, NTR-Net, University of Surrey
- P43 Moments of Angular Distribution of K^+K^- with CLAS12
Charlie Velasquez, University of York
- P44 Benchmarking SRO Performance of CAEN Digitizers
Yuri Venturini, Caen Spa

- P45 Coulomb Excitation of $^{200,202}\text{Hg}$
Greg Willmott, University of Surrey
- P46 Pulse Shape Discrimination Plastic Scintillators for the Detection of Radioactive Materials
Toby Wolverson, University of Surrey
- P47 "Engineering Spin-Dependent Potential Barriers for Enhanced Neutron Flux Filtration in the neV Energy Regime"
Pranjal Bhardwaj, Fergusson College, Pune