

2026 IOP Conference

Monday, 13 April 2026

Parallel session: A - Huxley 300 (15:45 - 17:00)

time	[id] title	presenter
15:45	[37] Production of Terbium-161 at HF-ADNeF	CONROY, Max
16:00	[39] Nuclear Reaction Studies at NIF: Establishing the Method and Recent Results	Dr PITMAN-WEYMOUTH, Daniel
16:15	[38] Nuclear and radiation backgrounds for the BUTTON anti-neutrino detector testbed at Boulby	HOPKINS, William
16:30	[41] Detecting water in spent nuclear fuel using the prompt neutron capture reaction on hydrogen	GREEN, Brendan
16:45	[40] Probing Short Range Correlations via (p,pd) Quasi-Free Scattering reactions	WHITEHEAD, Matthew

Parallel session: B - Huxley 406 (15:45 - 17:00)

time	[id] title	presenter
15:45	[42] A Compact Multimode Detector for the Decommissioning of Irradiated Graphite	HUNTER, Nia
16:00	[43] Transforming Inorganic Scintillators Into Neutron Spectrometers	Dr O'NEILL, Joseph
16:15	[44] The Structure of Neutron-Rich $N \approx 126$ Nuclei	Dr BARTRAM, Gee
16:30	[45] Competing decay modes from the $25/2^-$ spin-gap isomer in ^{155}Lu	Dr BRISCOE, Andy
16:45	[46] Investigations of the unbound states in ^{20}C	Dr CHEN, Sidong

Parallel session: C - Huxley 407 (15:45 - 17:00)

time	[id] title	presenter
15:45	[47] Exploring intense photon/muon beams as Dark Matter detectors	Dr BASHKANOV, Mikhail
16:00	[48] GEn-RP: Neutron Electric Form Factor Measurement using Recoil Polarimetry at Jefferson Lab	CHEYNE, Andrew
16:15	[49] Quantum Machine Learning Meets Predicting Nuclear Binding Energy	Prof. AKKOYUN, Serkan
16:30	[50] Investigating the boundaries of enhanced octupole collectivity in the rare-earth region	Dr SPAGNOLETTI, Pietro
16:45	[51] Direct Measurements of Low-Lying Monopole Transitions in ^{28}Si	TOWERS, Jacob

Tuesday, 14 April 2026

Parallel session: D - Huxley 300 (11:00 - 12:15)

time	[id] title	presenter
11:00	[53] Constraining the density-dependence of the symmetry energy by cross section measurements at R3B	Dr PONNATH, Lukas
11:15	[56] Uncertainty quantification of spin-parity assignments in ^{19}Ne with ML methods	WOOD, Benjamin
11:30	[52] Evidence of the $9\text{B}(1/2^+)$ state in the $^{12}\text{C}(p,\alpha)^9\text{B}$ reaction	BROOKS, Alex
11:45	[54] Lifetime measurements in neutron-rich barium and cerium isotopes using the fast-timing technique	ROWNTREE, Faye
12:00	[55] B(E2) measurements of heavy $N = Z$ nuclei at FRIB	Prof. BENTLEY, Michael

Parallel session: E - Huxley 406 (11:00 - 12:15)

time	[id] title	presenter
11:00	[58] Particle identification with Bragg spectroscopy at ISOLDE Solenoidal Spectrometer	WŁODARCZYK, Michał
11:15	[59] A Novel Method for PET Radioisotope Photoproduction	STONE, Josephine
11:30	[60] Differential cross section measurements for (n,α) reactions with a Time Projection Chamber	Dr BISHOP, Jack
11:45	[61] Deep Learning for Enhanced Muon Tomography Imaging	O'DONNELL, William
12:00	[57] Position resolution estimation of Adaptive Grid search algorithm for multi-site interactions position determination in 'SIGMA' detector.	ALTASAN, Nawaf

Parallel session: F - Huxley 407 (11:00 - 12:15)

time	[id] title	presenter
11:00	[62] The dynamical evolution of the parity splitting energy in nuclei with octupole deformation	Dr BUDACA, Radu
11:15	[63] Recent developments for microscopic optical potentials for nucleon-nucleus elastic scattering	PITT, Ashley
11:30	[65] Lifetime measurements of the 2^+ state in ^{128}Nd and ^{132}Sm	Dr HEERY, Jacob
11:45	[66] Laser spectroscopy measurements of $^{151-175}\text{Tm}$. On behalf of the COLLAPS collaboration	HUGHES, Jack
12:00	[64] Radiative decay and electromagnetic moments in ^{229}Th determined within nuclear DFT	RESTREPO-GIRALDO, Alejandro

Wednesday, 15 April 2026

Parallel session: G - Huxley 300 (11:00 - 12:15)

time	[id] title	presenter
11:00	[67] Pixel-based Target Recoil Tracker (TRT) for R3B at FAIR	AMORIM, Beatriz
11:15	[68] Development of novel LaBr ₃ (Ce) Detector Modules for Nuclear Astrophysics Applications	DUTTA, Sulagna
11:30	[69] Elucidating Strangeness with Electromagnetic Probes	ACAR, Asli
11:45	[70] Preliminary 2P _{i0} channel analysis at GlueX	BERGER, Alexandra
12:00	[71] Jet measurements with the ALICE experiment at the LHC	Dr NORMAN, Jaime

Parallel session: H - Huxley 406 (11:00 - 12:15)

time	[id] title	presenter
11:00	[74] First Cross-Section Measurements of the $^{93}\text{Sr}(\alpha, xn)^{95-96}\text{Zr}$ Reactions: Implications for the Weak r-Process	JAMESON, Claire
11:15	[75] Beta-decay spectroscopy of proton-rich N=82 isotones	ALWADIE, Norah
11:30	[72] A direct measurement of the $^{27}\text{Al}(\alpha, p)^3\text{Si}$ cross section with TACTIC	CYSTER, Annabelle
11:45	[76] A Novel Approach to Observing Nuclear Excitation by Electron Capture	FULLER, John
12:00	[73] Probing the $10\text{B} + \alpha$ pathway for primordial stars at LUNA: Experimental techniques and preliminary results	BONNELL, Rhys

Parallel session: I - Huxley 407 (11:00 - 12:15)

time	[id] title	presenter
11:00	[77] Decay Spectroscopy of Medical Imaging Isotope Terbium-152	O'SULLIVAN, Edward
11:15	[78] Water neutron moderation of AmBe: a computational approach with Geant4	FALEZZA, Filippo
11:30	[79] Shell evolution and neutron halo formation in heavy sodium isotopes	Dr SINGH, Jagjit
11:45	[80] Unveiling proton-neutron pairing in homogeneous and isotropic nuclear matter	BACKES, Betania
12:00	[81] Thermal effects on neutron capture cross sections using a quantum dynamical approach	LIGHTFOOT, Nicholas