Monday 8 April

12:00	Coffee and Registration Location: Level 12 (Atrium) and 13 (Axis)
	Plenary Sesson: Monday I **Location: Conference Rooms 1 and 2, Level 13**
13:00	Welcome by Professor Tim Jones, Vice-Chancellor, University of Liverpool
13:15	SM + Higgs results at the LHC Jonathon Mark Langford (Imperial College London)
13:45	BSM Physics at the LHC and HL-LHC upgrades Sara Alderweireldt (The University of Edinburgh)
14:15	Anatomy of Hadron Collisions - And Challenges for the Future Peter Skands (Monash University (AU) & University of Oxford)
14:35	Sustainability in the subatomic sciences Veronique Boisvert (Royal Holloway, University of London)
15:00	Tea and Coffee and Poster Session 1 Location: Level 12 (Atrium) and Level 13 (Axis)
	Plenary Sesson: Monday II **Location: Conference Rooms 1 and 2, Level 13**
15:45	Particle Physics Strategy, the P5 Report Christos Touramanis (University of Liverpool)
16:05	ALICE and the Heavy Ion Programme at CERN Marco Van Leeuwen (Nikhef National Institute for Subatomic Physics)
16:35	Flavour Physics at the LHC and elsewhere Lucia Grillo (University of Glasgow)
17:05	Hidden Sector Experiments Carl Gwilliam (University of Liverpool)
17:25	The Proton EDM Alex Keshavarzi (University of Manchester)

18:00	Exhibitors and Poster Reception I Location: Level 12 (Rooms 8 & 9) and Atrium
20:00	End of Day one

Tuesday 9 April

	Plenary Sesson: Tuesday I Location: Conference Rooms 1 and 2, Level 13
09:00	Nuclear Structure with AGATA Rosa Perez (LNL, INFN)
09:30	Recent advances in hadron structure at Jlab David Hamilton (University of Glasgow)
09:50	Quantum Algorithms applied to nuclear structure Paul Stevenson (University of Surrey)
10:20	Novel Probes of Primordial Hot Quark Soup Krishna Rajagopal (Massachusetts Inst. of Technology, USA)
10:50	Refreshment Break Location: Level 12 (Atrium) and Level 13 (Axis)
	Plenary Sesson: Tuesday II **Location: Conference Rooms 1 and 2, Level 13**
11:20	The APPEC Programme and Report (TBC)
11:40	Dark Matter: Direct Search experiments and other approaches Amy Cottle (University of Oxford)
12:10	Gravitational Wave Astronomy Giles Hammond (University of Glasgow)
12:30	Cosmic rays and cosmic neutrinos Ryan Nichol (University College London)

12:50	Lunch Location: Level 12 (Atrium) and Level 13 (Axis)
	Plenary Sesson: Tuesday III Location: Conference Rooms 1 and 2, Level 13
14:05	Laser spectroscopy of the heaviest actinides Premaditya Chhetri (KU Leuven)
14:35	In-Source Laser Spectroscopy @ ISOLDE James Cubiss (University of York)
14:55	Combined gamma-ray and electron spectroscopy for studies of shape coexistence Janne Pakarinen (University of Jyvaskyla, Finland)
15:25	Neutrinoless double beta decay and absolute neutrino mass Ruben Saakyan (University of London)
15:45	Refreshment Break Location: Level 12 (Atrium) and Level 13 (Axis)
	Plenary Sesson: Tuesday IV Location: Conference Rooms 1 and 2, Level 13
16:30	Neutrino Oscillation Experiments Luke Pickering (Royal Holloway, University of London)
17:00	The Muon Physics Programme: g-2 puzzle, cLFV and EDM Saskia Charity (University of Liverpool)
17:30	Quantum Technologies for Fundamental Physics Ian Shipsey (University of Oxford)
18:00	Poster Session 2 and Exhibition Location: Rooms 8 & 9 and the Atrium
20:00	End of Day 2

Wednesday 10 April

Parallel Sessions I								
Location	Session A Space One	Session B Space Two	Session C Space Four	Session D Space Five	Session E Space Seven	Session F Space Eigth	Session G Space Six	Session H Space Nine
09:00	Search for long lived ALPs that decay into diphoton in Run 3 Rebecca Katie Irwin (University of Liverpool)	A search for lepton flavour violating τ →3μ decays with the ATLAS experiment Conor McPartland (University of Liverpool)	Beyond the standard model particle searches in MicroBooNE Luciano Arellano (The University of Manchester)	Stopping Effects and Sensitivity of Sub-GeV Dark Matter in QUEST-DMC Neda Darvishi (Royal Holloway University of London)	BUTTON Simulations for the Development of WbLS Adam Tarrant (University of Liverpool)	Status of the Fermilab Muon g-2 Experiment Ce Zhang (University of Liverpool)	Silicon detector upgrades in ALICE: ITS3 and ALICE 3 Jian Liu (University of Liverpool)	Dense room temperature spin polarized nuclear targets from SABRE chemical hyperpolarization methods – R&D status Benjamin Collins (University of York)
09:15	Searches for the Inert Doublet Model Edward Curtis (Imperial College London)	Search for light long-lived neutral particles from Higgs boson decays via vector-boson-fusion production from proton-proton collisions at sqrt(s)=13 TeV with the ATLAS detector Richards González	Sensitivity to HNLs with the ANUBIS detector Anna Jane Mullin (University of Cambridge)	Cryogenic qualification of SiPM array detectors for the DarkSide-20k experiment Alice Hamer (University of Edinburgh)	ARIADNE+: Large Scale Demonstration of Fast Optical Readout for Dual Phase LArTPCs at the CERN Neutrino Platform Adam Lowe (University of Liverpool)	Measurement of the anomalous spin precession frequency ω_a in the Muon g-2 experiment at Fermilab Lorenzo Cotrozzi (University of Liverpool)	Low transverse momentum jet measurements in heavy-ion collisions with ALICE Jaime Norman (University of Liverpool)	Nuclear Density Functional Theory Calculations of Nuclear Schiff Moment of Ac-227 Herlik Wibowo (University of York)

09:30	Search for dark showers in the b-parking dataset Kai Hong Law (Imperial College London)	Searching for direct stau production in the lepton-hadron final state at ATLAS using machine learning Sebastian Rutherford Colmenares (University of Cambridge)	Developing the Reconstruction of a Magnetised Gaseous Argon TPC for the DUNE Near Detector Francisco Martinez Lopez (Queen Mary University of London)	Boosted Dark Matter Sensitivity in the DarkSide-20k Detector Zoe Balmforth	Q-Pix: pixel-based charge readout for kton scale LArTPC Shion Kubota (University of Manchester)	Search for an explanation to the muon anomalous magnetic moment through the non-resonant production of two additional Higgs bosons Klitos Savva (Imperial College London)	Exploring Neutron stars EoS with coherent $\pi^0\pi^0$ photoproduction at A2@MAMI Mihai Mocanu (University of York)	Shell-model study of 58Ni using quantum computing algorithm Bharti Bhoy (University of Surrey)
09:45	Re-thinking the CMS Level 1 Trigger with Machine Learning Maciej Mikolaj Glowacki (University of Bristol)	Searching for Supersymmetry with the ATLAS Detector Alessandro Ruggiero (University of Oxford)	A Data-Driven Extrapolation Technique for the DUNE-PRISM Oscillation Analysis Alexander J Wilkinson	The APEX Experiment: a dark matter search at Jefferson Lab Hall A Oliver Jevons (University of Glasgow)	The University of Sheffield LArTPC Test Stand for Development of Next Generation Charge Readout Technologies Harry Scott (University of Sheffield)	Status of the MUonE experiment Riccardo Pilato (University of Liverpool)	Probing the strange meson spectrum through the analysis of photoproduction reaction yp->K+K-ɣɣp at the GlueX experiment Darius Darulis (University of Glasgow)	Binding Blocks UK: A National, Inclusive Programme for Nuclear Physics Education Joel Richardson (University of York)

10:00	The ATLAS Run III L1 calorimeter trigger Panagiotis Bellos (University of Birmingham	A search for tri-Higgs production at the ATLAS detector Maggie Chen (University of Oxford)	Measuring Reactor Antineutrino Oscillation at SNO+ James Page (University of Sussex)	Status of the LUX-ZEPLIN (LZ) Dark Matter Experiment Ewan Frser (University of Liverpool)	Understanding the off-Axis Flux of Neutrinos from Neutral Kaons Holly Parkinson (University of Edinburgh)	Measurement of the muon electric dipole moment at the Fermilab Muon g-2 experiment Lucy Bailey (University College London)	Studying gluon GPDs at the Electron Ion Collider via DVMP Stuart Fegan (University of York)	(Many!) Proton Knockout With CLAS@JLAB Rhidian Williams (University of York)
10:15		ML and BSM reinterpretation - challenges and opportunities Tomasz Procter (University of Glasgow)		LZ Outer Detector: Calibration, Monitoring and Performance in Contribution to First Science Result Sam Woodford (University of Liverpool)		Nuanced Beta Spectral Shapes and Their Role in Exploring Physics Beyond the Standard Model Marlom Ramalho (University of Jyväskylä)	Measurement of the Electric Form Factor of the Neutron Gary Penman (University of Glasgow)	Cross Sections of Proton-Induced Reactions on natZn and natNi: Exploring the 67Cu/64Cu Theranostic Pair Production Mamad Eslami (School of Physics, Engineering and Technology, University of York)
10:30	Tea and Coffee Location: Level 12 (Atrium) and Level 13 (Axis)							

Parallel Sessions II								
Location	Session A Space One	Session B Space Two	Session C Space Four	Session D Space Five	Session E Space Seven	Session F Space Eigth	Session G Space Six	Session H Space Nine
11:00	A Top Friendship: Measurement of ttH production in the H(bb) decay channel at ATLAS with Transformer Networks Levi Evans (Royal Holloway, University of London)	A Search for Dark Matter in the Light of Dark-Higgs Strahlung Tim Lukas Brueckler (Oxford University)	Sensitivity Studies for a Gaseous Argon Near Detector for DUNE Naseem Khan (Imperial College London)	Characterising Electric Fields in LZ Sparshita Dey (University of Oxford)	Measuring muon antineutrino charged-current interactions without mesons in the final state, in the NOvA Near Detector Kevin Vockerodt (Queen Mary University of London)	Characterization of irradiated Silicon Photomultipliers for LHCb Upgrade II Constantinos Vrahas (The University of Edinburgh)	Comparing Post Processing Nucleosynthesis (PPN) codes: An investigation into the impact that different reaction rate libraries and PPN codes can have on a variety of different astrophysical environments Alexander Hall-smith (The University of York)	Tracing two-neutron halos in N=28 isotones: A three-body adventure Jagjit Singh (University of Manchester)
11:15	Search for Decays of the Higgs Boson into a Z Boson and a Light Hadronically Decaying Resonance Chonghao Wu (University of Birmingham)	A search for high-mass resonances decaying to τν in pp-collisions at center-of-mass energy = 13 TeV with the Run-2 data of the ATLAS detector Christos Vergis (University of London)	Analysing the fast oscillations of atmospheric neutrinos at Super-Kamiokande George Burton (Kings College London)	Multiple Scatter Neutron Background Measurements in LZ Jo Orpwood (University of Sheffield)	TPC Calibration in the Short Baseline Near Detector (SBND) Robert Darby (University of Sussex)	Amplitude Analysis of B 0 → D 0 D ¯ 0 K + π − decays with the LHCb experiment Jake Amey (University of Bristol)	Constraining the NiCu cycle in X-ray bursts: Spectroscopy of 60Zn Connor Thomas O'Shea (University of Surrey)	Two-centre harmonic oscillator basis for Skyrme Hartree Fock: alpha clustering in 8Be and 24Mg ->12C+12C as a proof of principles calculations Adrian Sanchez Fernandez (University of York)

11:30	Transformer Neural Networks for Large Radius Jet Classification and Regression for Boosted Higgs Bosons at the ATLAS Detector Andrius Vaitkus (University College London)	Searching for missing mass in proton-tagged dilepton events with the AFP and ATLAS detectors Josh Lomas (University of Birmingham)	Sterile Neutrino Oscillation Searches using the VALOR Fitting Framework at SBN Beth Slater (University of Liverpool)	Studies of radioactive background from environment for a potential LXe dark matter experiment at Boulby Jemima Tranter (University of Sheffield)	Modelling Cosmic Ray Muon Spallation for a Hyper-Kamiokande DSNB Analysis Jack Fannon (University of Sheffield)	Search for rare Bd -> phi phi decays in the full Run 1 + Run 2 dataset from the LHCb experiment Mary Richardson-Slipper (The University of Edinburgh)	A new Measurement of 16O(p, α)13N reaction rate using MUSIC detector at the energies relevant to SNIa May Alruwaili (University of York)	Finding Excitation Spectra Using a Quantum Computer Isaac Hobday (University of Surrey)
11:45	Constraining Anomalous Quartic Gauge Couplings in Production of Three Massive Vector Bosons with the ATLAS detector Patrick Dougan (University of Manchester)	The Search for Axion-Like Particles with the FASER Experiment at the LHC Charlotte Cavanagh (University of Liverpool)	Improving Neutrino Energy Reconstruction with Machine Learning Margot MacMahon (University College London)	Searching for Low Mass Dark Matter in Silicon using the Silicon Photomultipliers in Darkside-20k. Seraphim Koulosousas	Constraints on the Cosmic Neutrino Background from NGC1068 Jack Franklin	Angular analysis of rare Bs decays involving electrons at the LHCb Experiment Lorenzo Paolucci (University of Warwick)	Neutron irradiations at the University of Birmingham High Flux Accelerator Driven Neutron Facility (HF-ADNeF) Jack Bishop (University of Birmingham)	Shape coexistence in neutron-deficient 190-Pb Adrian Montes Plaza (University of Jyväskylä & University of Liverpool)
12:00	The first measurement of the ttZ->nunu cross section Michael Antony Postill (University of Sheffield)	Baler: Machine-Learning-Based Compression of Scientific Data in Real Time James Smith (University of Manchester)	Joint analysis between Super-Kamiokande atmospheric and T2K accelerator neutrinos Zhenxiong Xie	Benchmarking the DarkSide-20k UAr Cryogenic System Olly Macfadyen (Royal Holloway)	The SNO+ Neutrinoless Double Beta Decay Programme Dr Benjamin Tam (University of Oxford)	Test of lepton flavour universality using B+ -> K+l+l– processes at high dilepton invariant mass James Herd (Imperial College London)	Spectroscopy of 23F Following a One-Neutron Removal Reaction Luke Tetley (University of York)	Investigation of quadrupole and octupole states in Zr chain using TDHF and QRPA Abhishek Abhishek (University of Surrey)

12:15	Top quark mass measurement in the boosted lepton+jets channel in pp collisions at $\sqrt{s}$=13 TeV using the ATLAS detector at the LHC Elliot Watton (University of Glasgow)	Upgrading the magnetic spectrometer for electron bunch emittance and energy measurements at AWAKE Fern Pannell (University College London)	Supernova triggering at DUNE from machine-learning based clustering Dennis Lindebaum (University of Bristol)	Muon & Antimuon Separation Using Machine Learning at MicroBooNE Charlie Batchelor (University of Edinburgh)	Cold Atoms, Cool Physics: Progress in the AION Project Elizabeth Pasatembou (Imperial College London)	Search for Right-Handed Weak Decays with the LHCb Detector James Brown (University of Liverpool)	Coulomb Excitation in 80Sr Reuben Russell (University of Surrey)	Suppressed electric quadrupole collectivity in 32Si Jacob Heery (University of Surrey)
12:30	Lunch Location: Level 12 (Atrium) and Level 13 (Axis)							
	Parallel Sessions III							
Location	Session A Space One	Session B Space Two	Session C Space Four	Session D Space Five	Session E Space Seven	Session F Space Eigth	Session G Space Six	Session H Space Nine
13:30	UKRI-MPW1: Simulations and preliminary Evaluations of an HV-CMOS sensor optimised for high radiation tolerance Benjamin Wade (University of Liverpool)	Fiducial differential measurement of the production of the Higgs boson through Vector Boson Fusion in the $\tau^+\tau^-$ channel with the ATLAS Detector Eva Guilloton (University of Warwick)	SoLAr: A novel technology for solar neutrino detection Guilherme Ruiz Ferreira	Production and performance of first DarkSide-20k Photo Detector Units Andrea Marasciulli (LNGS (INFN))	Development of the MAGIS-100 atom interferometer primary imaging system Daniel Wood (University of Oxford)	Search for the very rare $B^+ \to \eta^+ e^+ e^-$ electroweak penguin decay at LHCb Richard Morgan Williams (University of Cambridge)	The New MARA-LEB Facility and Experimental Prospects Jorge Romero (University of Liverpool)	In-source Laser Spectroscopy Studies of Neutron-rich Thallium at IDS/ RILIS-ISOLDE Zixuan Yue (University of York)

13:45	Pre-clinical Investigations of Spatially Fractionated Radiotherapy Josie Mcgarrigle (Imperial College London)	Differential Cross-Section Measurement of Inclusive W^± (→l^± ν)γ Process in proton-proton collision at √s=13 TeV with the ATLAS Detector Zuchen Huang (University of Manchester)	Towards a NCπ0 cross section measurement in the Short-Baseline Near Detector Henry Lay (Lancaster University)	The QUantum Enhanced Space-Time (QUEST) experiment Abhinav Patra (Cardiff University)	Superfluid Helium-3 Calorimetry with Quantum Sensor Readout in the QUEST-DMC experiment Robert Smith (Royal Holloway, University of London)	Search for the Lepton Flavour Violating Decay Λb → Λ(1520)μe at the LHCb Detector Daniel Thompson (University of Birmingham)	Lifetime measurements in 53Ca Sidong Chen (University of York)	Shape studies in neutron-rich cerium isotopes Maria-Magdalini Satrazani (University of Liverpool)
14:00	Characterization of Secondary Neutrons in Carbon Ion Beam Therapy Using TOPAS Monte Carlo Simulations Fajer Alqahtani (University of Liverpool)	Studies on Z-gamma scattering at 13 TeV with ATLAS Detector Gitanjali Poddar (University of London)	First results from a relativistic mean field theory implemented in the NEUT neutrino interaction event generator. Mr Jake McKean (Imperial College)	Overview of the Technology of MAGIS and AION Atom Interferometry Experiments Towards Ultra-light Dark Matter Searches Gedminas Elertas (University of Liverpool)	Molecular sieve vacuum swing adsorption purification and radon reduction system for gaseous dark matter and rare-event detectors Robert Renz Marcelo Gregorio (Queen Mary University London)	Novel sources and uses of quantum-correlated charm systems Paras Naik (University of Liverpool)	High-Spin Gamma-Ray Spectroscopy at the Proton Drip Line: The Study of 131Eu Conor Sullivan (University of Liverpool)	Decay spectroscopy of isomerically pure 178Aug,m at the ISOLDE Decay Station, CERN Christopher Page (University of York)

14:15	Design of an Ion-Acoustics Proof-of-Principle Experiment for LhARA Maria Maxouti (Imperial College London)	Uncertain systematics in combinations Enzo Canonero (University of London)	First look at the background of the LEGEND-200 experiment Speaker: George Marshall	Low energy electron recoil searches within LZ and using FlameNEST for future work Riyat Harkirat (Univesrtiy of Edinburgh)	Direct search for scalar field dark matter with LIGO Alexandre Göttel (Cardiff University | Gravity Exploration Institute)	Measurement of the Z Mass at LHCb with 2016 pp collision data Emir Muhammad (University of Warwick)	Octupole correlations in neutron deficient plutonium isotopes Hamid Ayatollahzadeh (University of the West of Scotland)	Onset of deformation in the neutron-rich krypton isotopes with the ISOLDE Solenoidal Spectrometer Annie Dolan (University of Liverpool)
14:30	A feasibility study using an array of LaBr3(Ce) scintillation detectors as a Compton camera for prompt gamma imaging during BNCT Kiran Nutter (University of Birmingham)	First measurement of high-mass ttll and LFU-inspired EFT interpretations with the ATLAS detector Gianna Loeschcke Centeno (University of Sussex)	LEGEND-1000 Matteo Agostini (University College London)	Optimisation of fast likelihood functions for dark matter and rare event searches Joshua Green (University of Oxford)	IWAVE a novel adaptive filtering method and its application to short and long duration gravitational wave searches Ian Hollows (University of Sheffield)	CMS Run 3 RK measurement and di-electron triggers Jay Odedra (Imperial College London)	Electromagnetic moments of ground and excited states calculated in nearly spherical and well-deformed odd nuclei Jacek Dobaczewski	Decays of K isomers in the extremely deformed neutron-deficient A = 130 region Andy Briscoe (University of Liverpool)

14:45		Measurement of Higgs boson properties via the H-π decay channel Roxani Lazaridou (University of Warwick)	Sub-GeV particle identification and tagged photon beam for the Water Cherenkov Test Experiment Alie Adeline Laure Craplet (Imperial College London)					Investigating nucleon-nucleon correlations through QFS reactions Ryo Taniuchi (University of York)
15:00	Tea Break Location: Level 12 (Atrium) and Level 13 (Axis)							
	Town Meeting Location: Conference Space One and Two, Level 13							
15:45	Update from DSIT							
15:55	Executive Chair Report – Mark Thomson (overview of STFC)¶							
16:55	Science Board (PPAN) Update - Keith Grainge							
17:10	Report Particle Astrophysics Advisory Panel (PAAP)¶ Sergey Burdin (University of Liverpool (GB))							
17:25	Report Particle Physics Advisory Panel (PPAP)¶ Ruben Saakyan (University of London)							
17:40	Report Nuclear Physics Advisory Panel (NPAP)¶ Jacek Dobaczewski							
17:55	End of Day 3							
19:00	Coaches Depart for the Conference Dinner at the Crowne Plaza Sponsored by Mirion Technologies							

Thursday 11 April

	Plenary Session: Thursday I
09:00	The 2024 NuPECC Long Range Plan Eberhard Widmann (Austrian Academy of Sciences (AT))
09:20	2023 IoP APP Early Career Prize winner's talk¶ Patrick Knights (University of Birmingham)
09:40	The future programme at Fermilab Bonnie Fleming (Fermi National Laboratory)
10:10	CERN: The future programme Mike Lamont (CERN)
10:40	Coffee Break Location: Level 12 (Atrium) and Level 13 (Axis)
	Plenary Session: Thursday II
11:10	The future programme at JPARC Speaker: Takashi Kobayashi (High Energy Accelerator Research Organization (JP))
11:40	The future programme at BNL Joanne Hewett (BNL)
12:10	The ECFA DRD Programme Chris Parkes (University of Manchester)
12:40	Closing Remarks
12:50	Coffee and Depart Location: Level 12 (Atrium) and Level 13 (Axis)

Posters

Poster Session I: 18:00 - 20:00, Monday 8 April Location: Rooms Eight and Nine								
P1.1. A Study on Dose Monitoring in Carbon Therapy Using Secondary Protons Shaikah Moslat M Alsubayae	P1.2. A Time-Dependent Wave-Packet Approach to the 12C + 12C Reaction Using DC-TDHF Potentials. Grant Close (University of Surrey)	P1.3. An overview of the Miniball spectrometer at ISOLDE Frank Browne (University of Manchester)	P1.4. Analysis of particle/nuclei cross sections within neutrino generator final state interaction models Tom Peacock (University of Sheffield)	P1.5. Assembly and QA/QC of the readout electronics for the DarkSide-20k veto photodetector modules Giovanni Rogers (University of Birmingham)	P1.6. Beam Studies using a Cherenkov Diffraction based Beam Position Monitor in the AWAKE common beamline Bethany Spear (University of Oxford)	P1.7. Calculation of Neutron Production in (alpha, n) Reactions with SOURCES4 and ONYSC Piotr Krawczun (University of Sheffield)	P1.8. Commissioning the Isolde Solenoidal Spectrometer with a measurement of the (d,p)23Ne reaction Ben Jones (University of Liverpool)	P1.9. Elucidating Strangeness with electromagnetic probes Asli Acar (University of York)
P1.10. Examining the north-west limit of octupole correlations in the light-actinide region using alpha decay spectroscopy Ben Hogg	P1.11. Experimental Investigation of High-K Isomer Decays in Neutron-Rich 183,184Hf isotopes Using the KISS Facility Siddharth Doshi (University of Brighton)	P1.12. Exploring Proton Structure: Gluon TMDs at ATLAS Alina Hagan (Lancaster University)	P1.13. Exploring unphysical quadrupole triaxiality in 200,202Hg using Coulomb Excitation Gregory Willmott (University of Surrey)	P1.14. First operation of an ACHINOS equipped Spherical Proportional Counter with individual anode read-out Lex Millins (University of Birmingham)	P1.15. Investigating Charge Sharing Effect in HVCMOS Silicon Detectors during Carbon Ion Beam Therapy Fajer Alqahtani	P1.16. Light simulation optimisation for the DarkSide-20k detector Andrzej Gawdzik	P1.17. Measurement of Nuclear Schiff Moment in 199Hg Dylan White (University of West of Scotland)	P1.18. Measurement of the production cross section for the single top quark in association with a Z boson at the ATLAS detector Alberto Plebani (University of Cambridge (GB))

P1.19. Measurement of the |Vcb| element of the CKM matrix in ttbar decays with the ATLAS detector Mo Ghani (University of Warwick)	P1.20. Neutron Beams at Birmingham: HF-ADNeF Alex Brooks (University of Birmingham)	P1.21. OpenMC simulations of the UoB HF-ADNeF for Medical Isotope Production Maxwell Conroy (University of Birmingham)	P1.22. Optimising Phenomenological Optical Model Parameters to Reproduce Reaction Cross Sections using Particle Swarm Optimisation and a Feed-Forward Neural Network Samuel Sullivan (University of Surrey)	P1.23 Progress on designing a beta-gamma detection system for criticality monitoring of spent nuclear fuel rods and operational nuclear reactors Sifa Elizabeth Poulton	P1.24. The 2023 MUonE Test Run Clément Devanne (University of Liverpool)	P1.25. The current status of Jet measurements from Run 3 at ALICE Daniel Matthew Jones (University of Liverpool)	P1.26. The VELO Monitoring during the Run-III Lanxing Li (University of Manchester)	P1.27. Using U-nets for the Application of Machine Learning to Improve Acquisition Times for Muography William O'Donnell (University of Glasgow)
P1.28. Isomeric and Beta Decays in the Neutron-Rich N=126 Region Gee Bartram (University of Surrey)								

Poster Sesson II: 18:00 - 20:00, Tuesday 9 April Location: Rooms Eight and Nine								
P2.1. Search for μ+ → e+e+e− at the Mu3e experiment and the Commissioning of the Pixel Tracker Charles Kinsman (University of Liverpool)	P2.2. Iluminating the 12C(a,g)16O cross section with gamma beams Kristian Haverson (Sheffield Hallam University)	P2.3. A microscopic study of 12C+12C fusion interactions Khlood Alharthi (University of Surrey)	P2.4. Progress towards Strontium Atom Interferometry at RAL Space Kamran Husssain (University of Liverpool)	P2.5. ATLAS Run 3 Search for New Physics in the Dielectron Channel Tom Elliot (Royal Holloway, University of London)	P2.6. Calibrating the Short-Baseline Near Detector with Cosmic-Ray Muons Anna Beever (University of Sheffield)	P2.7. Cocktail Beam Coulomb-Excitation of 50Cr and 50Ti Christopher Cousins (University of Surrey)	P2.8. Commissioning of the MIGDAL detector with fast neutrons at ISIS/NILE Lex Millins (University of Birmingham)	P2.9. Construction, Installation, and Commissioning of the SFGD Detector Jake McKean (Imperial College)
P2.10. Decay Spectroscopy of 152Tb as a Theragnostic Radionuclide Edward O'Sullivan (University of Surrey)	P2.11. Designing Calorimeters for the Luminosity Monitoring System at the Electron-Ion Collider Alex Smith (University of York)	P2.12. Exploring nuclear shapes and sizes of Thulium using laser spectroscopy (On behalf of the COLLAPS collaboration) Jack Hughes	P2.13. Exploring Tau Identification in dilepton final state with ATLAS 2022 Data Sudev Pradhan (University of Sheffield)	P2.14. Gaussian Processes: Machine Learning for Observable Interpolation and Data Analysis Ryan Ferguson (University of Glasgow)	P2.15. Improving the Performance and Reliability of High Purity Germanium (HPGe) Detectors through the monitoring of trace signals Thomas Wonderley (University of Liverpool)	P2.16. Kaon Cross Section Measurement with NuMI Beam at MicroBooNE Natsumi Taniuchi (University of Cambridge)	P2.17. Measurement of the electric dipole moment of the muon at the Fermilab g-2 experiment. Katherine Ferraby (University of Liverpool)	P2.18 Measuring the lifetimes of low-lying 146Ba energy levels using fast-timing techniques Faye Rowntree (University of Liverpool)

P2.19. Novel Techniques for α/β Pulse Shape Discrimination Using Silicon Strip Detectors Olivia Tindle (Sheffield Hallam University)	P2.20. Studying displacement damage in silicon detectors with the University of Birmingham MC40 Cyclotron Eric Liu (University of Birmingham)	P2.21 The 2x2 DUNE Near Detector Demonstrator Akeem Hart (Queen Mary University of London)	P2.22 The effect of kinematic-specific calibrations on the timing resolution of the the BigBite Timing Hodoscope for the GMn experiment at Jefferson Lab. Andrew Cheyne (University of Glasgow)	P2.23 The MUonE experiment: a novel way to measure the hadronic contribution to the muon g-2 Giorgia Cacciola (University of Liverpool)	P2.24 The QUantum Enhanced Space-Time experiment poster Abhinav Patra (Cardiff University)	P2.25 Unfolding Jet Observables with Machine Learning Nicodemos Andreou (University of Derby and ALICE Collaboration)	P2.26 Wave length Shifting Plates to Improve the Photon Detection Efficiency for the Southern Wide-Field Gamma-Ray Observatory Jazmin Stewart (University of Leicester)