

08:00 - 18:00

Registration

Location: Halls 1 and 2

08:45 - 09:00

Opening Ceremony

Location: Clyde Auditorium

Plenary Session 1

Location: Clyde Auditorium

09:00

Nuclear Forces from Lattice QCD

Tetsuo Hatsuda - RIKEN iTHEMS, Japan

09:30

Physics opportunities with reactions induced by relativistic rare beam: Unveiling neutron-star secrets

Lola Cortina - Universidad de Santiago de Compostela, Spain

10:00

Rare isotopes as laboratories for fundamental-interactions studies

Oscar Naviliat-Cuncic - Michigan State University, USA

10:30

Refreshment Break

Location: Halls 1 and 2

Plenary Session 2

Location: Clyde Auditorium

11:00

The nucleus as a femtometer laboratory: Hadronization, 3D tomography and more

Kawtar Hafidi - Argonne National Lab, USA

11:30

Short-range correlations in nuclei

Arnau Rios Huguet - University of Surrey, UK

12:00

Application of radionuclides in theranostics

Ulli Köster - Institut Laue-Langevin, France

12:30

Lunch, Exhibition and Posters

Location: Halls 1 and 2

Nuclear Astrophysics

Location: Forth Room

Chair: Massimo Barbagallo

Nuclear Reactions ALocation: Lomond Auditorium
Chair: Alinka Lepine-Szilv**Nuclear Structure A**Location: Alsh Room 1
Chair: Philippe Chomaz**Nuclear Structure B**Location: Alsh Room 2
Chair: Steve Yates**Nuclear Structure C**Location: Boisdale Room 1
Chair: Rodi Herzberg**New Facilities and Instrumentation A**Location: Boisdale Room 2
Chair: Silvia Lenzi**Societal Impact and Applications of Nuclear Science**Location: Carron Room 1
Chair: Simon Mullins**Fundamental Symmetries and Interactions in Nuclei**Location: Carron Room 2
Chair: Carlo Barbieri**QCD: Hadron Structure and Spectroscopy**Location: Dochart Room 1
Chair: Achim Denig**Hot and Dense Nuclear Matter**Location: Dochart Room 2
Chair: Dieter Roerich**Neutrinos and Nuclei**Location: M4 Room
Chair: Karlheinz Langanke13:30 (Invited) Nuclear reactions of astrophysical interest: ab-initio studies within chiral effective field theory
Laura Elisa Marcucci, University of Pisa, Italy13:30 (Invited) Reaction theory and advanced CDCC
Antonio Moro, Nuclear, Facultad CC Físicas, Universidad de Sevilla, Spain13:30 (Invited) Ab initio description of open-shell nuclei
Vittorio Somà, CEA Saclay, France13:30 (Invited) Structure at the extremes: In-beam gamma-ray spectroscopy at the RIBF
Kathrin Wimmer, IEM - CSIC, Spain13:30 (Invited) Superheavy element studies using BGS+FIONA
Jacklyn Gates - Lawrence Berkeley National Laboratory, United States13:30 (Invited) Overview of FAIR facility
Philip Woods, The University of Edinburgh, UK13:30 (Invited) Treaty verification with resonance phenomena
Areg Danagoulian, Massachusetts Institute of Technology, USA13:30 (Invited) From light-nuclei to neutron matter within chiral dynamics
Maria Piarulli, Washington University, USA13:30 (Invited) Hyperon and antihyperon physics
Andrzej Kupsc, Uppsala University, Sweden13:30 (Invited) Heavy flavour theory
Andrea Beraudo, INFN, Italy13:30 (Invited) Neutrino oscillations and the nucleus: energy reconstruction and cross-sections
Federico Sanchez, University of Geneva, Switzerland13:55 Resonances in stellar carbon burning
Alexis Diaz-Torres - University of Surrey, UK13:55 Nuclear structure and dynamics from ab initio theory
Petr Navratil - TRIUMF, Canada13:55 Self-organization in atomic nuclei and nuclear collectivity
Takaharu Otsuka, University of Tokyo, Japan13:55 Spectroscopic studies of the structure of neutron-rich ¹²⁹Sn and ¹³³Sn
Fatima H. Garcia, Simon Fraser University, Canada13:55 Study of the evolution of octupole collectivity in ²¹⁷Ra
James Keatings, University of the West of Scotland, UK13:55 JUROGAM 3 at MARA – unparalleled equipment to study proton-rich nuclei employing in-beam spectroscopy
Janne Pakarinen, University of Jyväskylä, Finland13:55 Spallation reaction study for long-lived fission products in nuclear waste
He Wang, RIKEN Nishina Center/Tokyo Institute of Technology, Japan13:55 Searching for hints of CP violation in the radioactivity of polarized ions: the MORA project
Pierre Delahaye, GANIL, France13:55 (Invited) Progress on unresolved problems in hypernuclei
Avraham Gal, Racah Institute of Physics, Hebrew University of Jerusalem, Israel13:55 The surprising heavy hadrons production in pp, pA and AA collisions: hadronization within coalescence and fragmentation
Vincenzo Minissale, INFN-LNS, Italy13:55 Nuclear models for neutrino-nucleus interactions
Maria Benedetta Barbaro, University of Turin, Italy

14:10 Nuclear structure of proton drip-line nuclei below Z=50 as an input to nuclear astrophysics Lidia S. Ferreira, CeFEMA/IST, Univ of Lisbon, Portugal	14:10 Modelling nuclei far from stability with a multichannel approach Paul Fraser, UNSW Canberra, Australia	14:10 Searching for Shape Coexistence in ^{70}Se James Smallcombe, University of Liverpool, UK	14:10 Beta decay of ^{132}Cd : Exploring the puzzle of decay half-lives Southeast of ^{132}Sn Miguel Madurga, University of Tennessee, USA	14:10 Measurement of nuclear magnetic dipole moments of $^{196-198}\text{Ir}$ with laser spectroscopy at KISS Momo Mukai, University of Tsukuba, Japan	14:10 CERN MEDICIS: A facility for novel radioisotope production for medical application Simon Stegemann, KU Leuven, Belgium	14:10 Muon tomography for nuclear industry applications Guangliang Yang, University of Glasgow, UK	14:10 Final results for the n3He parity violating asymmetry measurement Mark McCrea, University of Kentucky, USA	14:20 Has the neutral double hypernucleus $\Lambda\Lambda^4\text{n}$ been observed? Falk Schupp, Helmholtz Institute Mainz, Germany	14:10 Survival of heavy flavored hadrons in a dense medium Boris Kopeliovich, UTFSM Valparaiso, Chile	14:10 Impact of most recent Total Absorption Gamma-ray Spectroscopy data of fission fragments on reactor antineutrino spectra and comparison with the Daya Bay results Magali Estienne, SUBATECH (Univ. Nantes, CNRS, EMN), France
14:25 Impact of Uncertainties in Astrophysical Reaction Rates on Nucleosynthesis Beyond Fe Thomas Rauscher, University of Basel, Switzerland	14:25 The role of tensor force in heavy-ion fusion dynamics Lu Guo, University of Chinese Academy of Sciences, China	14:25 On the meaning of nuclear shape Alfredo Poves - UAM, Spain	14:25 Direct lifetime measurements of excited states in ^{136}Te and ^{138}Te Victoria Vedia, Grupo de Física Nuclear, Universidad Complutense, Spain	14:25 Coulomb Excitation of Semi-Magic ^{206}Hg Lisa Morrison - University of Surrey, UK	14:25 Prompt gamma-ray imaging for real-time in vivo range/dose verification in proton and carbon ion therapy Mei Xiao, University of York, UK	14:25 Flexible silicon-based alpha particle detector David Jenkins, University of York, UK	14:25 Recent progress in the construction of covariant chiral nuclear forces Lisheng Geng, Beihang University, China	14:35 Study of E-nucleus and E-atom based on the EN interaction from QCD on lattice Takashi Inoue, Nihon Univesity, College of Bioresource Sciences, Japan	14:25 Transport properties of Heavy Quarks: anisotropic flows v_n and their correlations to the bulk dynamics and initial Electromagnetic field Salvatore Plumari, University of Catania, INFN-LNS, Italy	14:25 Search for eV sterile neutrinos: Status of the STEREO experiment Ilham El Atmani, FSAC-Hassan II University; CEA Saclay, Morocco
14:40 Realistic shell-model calculations for astrophysically relevant Gamow-Teller distributions Nunzio Itaco, Università della Campania "Luigi Vanvitelli", Italy	14:40 The Surrogate Reactions Method for Indirectly Constraining (n, γ) Cross Sections Andrew Ratkiewicz - Lawrence Livermore National Lab, USA	14:40 Shape evolution in selenium; triaxiality and coexistence Jack Henderson, Lawrence Livermore National Laboratory, USA	14:40 Observation of the beta-decay of ^{135}In Jaime Benito, Grupo de Física Nuclear, Universidad Complutense, Spain	14:40 Weak coupling of 1p1h states to platonic shapes in ^{208}Pb Andreas Heusler - Heidelberg, Germany	14:40 Applying Nuclear Science and Immersive Technologies together to plan Interventions in Radioactive Areas Alice Cryer, University of Sheffield, UK	14:40 New experimental limits on exotic spin- and velocity-dependent interactions with a spin-exchange relaxation-free atomic magnetometer Young Jin Kim, Los Alamos National Laboratory, USA	14:50 Study of ΣN interaction from the ΣN scattering experiment at J-PARC Koji Miwa, Faculty of Science, Tohoku university, Japan	14:40 Measuring space-time properties of baryon resonances around 1 GeV using Bose-Einstein Correlations Qinghua He - Nanjing University of Aeronautics and Astronautics, China	14:40 Perspectives of lowering CUORE thresholds with Optimum Trigger Valentina Dompè, Gran Sasso Science Institute (GSSI), Italy	
14:55 Application of error analysis in theoretical nuclear models to the outer crust of a neutron star Alessandro Pastore - University of York, UK	14:55 Role of dissipative transfer reactions in suppressing heavy-ion fusion Edward Simpson, Australian National University, Australia	14:55 Describing quadrupole collective excitations of nuclei within self-consistent methods David Muir, University of York, UK	14:55 Parameter optimization in the latest quark-meson coupling model Anthony Thomas, University of Adelaide, Australia	14:55 New Energy Density Functionals for ground and excited states Gianluca Colò - Università degli Studi di Milano and INFN, Italy	14:55 Construction of nuclear effective interactions of new generation Dany Davesne, Institut de Physique Nucléaire, France	14:55 Final results of the CUPID-0 Phase I experiment Lorenzo Pagnanini, INFN Sezione di Milano Bicocca, Italy				

15:10

Refreshment Break
Location: Halls 1 and 2

Nuclear Astrophysics Location: Forth Room Chair: Laura Marcucci	Nuclear Reactions A Location: Lomond Auditorium Chair: Nigel Orr	Nuclear Structure A Location: Alsh Room 1 Chair: Eiji Ideguchi	Nuclear Structure B Location: Alsh Room 2 Chair: Don Geesaman	Nuclear Structure C Location: Boisdale Room 1 Chair: Fanny Farget	New Facilities and Instrumentation A Location: Boisdale Room 2 Chair: John Simpson	Societal Impact and Applications of Nuclear Science Location: Carron Room 1 Chair: Alberto Boso	Hot and Dense Nuclear Matter Location: Carron Room 2 Chair: Joern Putschke	QCD: Hadron Structure and Spectroscopy Location: Dochart Room 1 Chair: Jan Rykebusche	QCD: Partonic Phenomena Location: Dochart Room 2 Chair: Simona Malace
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15:40 (Invited) Overview on the Trojan Horse Method and its relevance for nuclear astrophysics Livio Lamia, University of Catania, Italy	15:40 (Invited) Tensor Blocking and Nuclear Shell Structure=Understanding Magic Numbers in Neutron-Rich Nuclei by Tensor Blocking Mechanism= Isao Tanihata, Beihang University and Osaka University, Japan	15:40 (Invited) Nuclear physics by multi-reflection time-of-flight mass spectrograph at WNSC Peter Schury, KEK Wako Nuclear Science Center, Japan	15:40 The radiative width of the Hoyle state from pair conversion and proton-gamma-gamma coincidence measurements Tibor Kibedi, The Australian National University, Australia	15:40 Half-life measurements in ^{164}Dy and ^{166}Dy using the NuBALL Spectrometer Rhiann Canavan - University of Surrey, United Kingdom	15:40 (Invited) Preparing for the next decade @ GANIL Navin Alahari, GANIL, France	15:40 (Invited) Nuclear data evaluation and applications Elizabeth McCutchan, Brookhaven National Laboratory, USA	15:40 (Invited) Recent open heavy flavor results from RHIC and LHC Sooraj Radhakrishnan, Lawrence Berkeley National Laboratory, USA	15:40 (Invited) Light baryon spectroscopy Annika Thiel, University of Glasgow, UK	15:40 (Invited) Polarized electron-deuteron deep-inelastic scattering with spectator nucleon tagging Wim Cosyn, Ghent University, Belgium
16:05 New investigations on the $^{32}\text{S}(^3\text{He,d})^{33}\text{Cl}$ reaction at 9.6 MeV bombarding energy Tommaso Marchi, Istituto Nazionale di Fisica Nucleare	16:05 Study of low-lying E1 excited states of ^{208}Pb via coincidence measurement of inelastic scattering of 80-MeV protons and γ decay Nobuyuki Kobayashi, RCNP, Osaka University, Japan	16:05 The Atomic Mass Evaluation: a journey from the lightest to the heaviest nuclei Wenjia Huang, Max-Planck-Institut für Kernphysik, Germany	15:55 The gamma decay probability of the Hoyle and higher excitation energy states of ^{12}C Nunzia Simona Martorana, LNS-INFN and CSFNSM, Catania, Italy	15:55 Phase transition between the isovector to isoscalar pairing correlations in deformed N=Z nuclei Eunja Ha, Soongsil University	16:05 (Invited) New perspectives in nuclear physics with extreme photon beams at ELI-NP Calin Alexandru Ur, ELI-NP, Romania	16:05 (Invited) Polarized beams for applications in chemistry and biology, and soon medicine Magdalena Kowalska, UNIGE, CERN, Switzerland	16:05 (Invited) Recent quarkonia results from RHIC and LHC Dieter Roehrich, University of Bergen, Norway	16:05 Measurement of the proton scalar polarizabilities at MAMI Edoardo Mornacchi, Johannes Gutenberg University Mainz, Germany	16:05 Probing Meson Structure via Tagged Deep Inelastic Scattering at Jefferson Lab Rachel Montgomery, University of Glasgow, UK
16:20 Observation of the Hoyle state rotational excitation via beta-triple-alpha angular correlations Ruchi Garg, The University of Edinburgh, UK	16:20 Emergence of new features around the drip-lines at N = 8 and 20 with reaction spectroscopy Rituparna Kanungo, Saint Mary's University, TRIUMF, Canada	16:20 High-precision mass measurements of the heaviest elements with SHIPTRAP Francesca Giacoppo, GSI Helmholtzzentrum für Schwerionenforschung GmbH, Germany	16:10 Evidence for Z=6 subshell closure in neutron-rich carbon isotopes Hooi Jin Ong, RCNP, Osaka University, Japan	16:10 Disentangling decaying isomers and searching signatures of collective excitations in beta decay Victor Guadilla, Université de Nantes, France	16:30 A Facility for Ultra-cold Caesium Isotopes and Isomers Luca Marmugi, University College London, UK	16:30 Hadrontherapy and radioprotection in space with the FOOT experiment Giacomo Traini, INFN, Italy	16:30 Measurement of Λ_c baryon in pp, p-Pb and Pb-Pb collisions with ALICE at the LHC Christopher Hills, University of Liverpool, UK	16:20 Bootstrap-based fit of proton scalar polarizabilities to real Compton scattering data, using fixed-t subtracted dispersion relations Stefano Sconfiatti, Università degli Studi di Pavia & INFN, Pavia section, Italy	16:20 Pion and kaon SIDIS multiplicities off a pure H target, and ratios of K^-/K^+ and $p\text{-bar}/p$ multiplicities off a deuteron target, from COMPASS Eva-Maria Kabuss, Johannes Gutenberg-Universität Mainz, Germany
16:35 First experimental constraint of the spectroscopic amplitudes for the alpha-cluster in the ^{11}B ground state Bing Guo, China Institute of Atomic Energy, China	16:35 Alpha-particle production in the $^6\text{He}+^{120}\text{Sn}$ collision Rubens Lichtenthäler, USP, Brazil	16:35 Binding energy studies at the extreme of the nuclear landscape with ISOLTRAP Maxime Mougeot, Max Planck Institut for Nuclear Physics, Germany	16:25 Towards a more precise measurement of the $Q(2^+)$ of ^{12}C: testing state-of-the-art ab initio theories Juan Saiz Lomas, The University of York, UK	16:25 Evolution of deformation in Ba isotopic chain Giovanna Benzoni, INFN - Milano, Italy	16:45 Studying the use of Thallium Bromide as a Gamma Ray Sensor Olivia Voyce, The University of Liverpool, UK	16:45 Future plans for neutron metrology at NPL Michael Bunce, National Physical Laboratory, UK	16:45 Exploring the hot and dense QCD matter with HADES Georgy Kornakov, Warsaw University of Technology, Poland	16:35 Measuring baryon radiative decays in time-like region with HADES Piotr Salabura, Jagiellonian University, Poland	16:35 Measurement of Longitudinal Single-Spin Asymmetry for W Boson Production in Polarized Proton-Proton Collisions at STAR Qinghua Xu - Shandong University, China
16:50 A possible nuclear solution to the ^{18}F deficiency in novae Marco La Cognata, INFN-LNS, Italy	16:50 Reaction dynamics induced by the Radioactive Ion Beams ^7Be and ^8B on a ^{208}Pb target at energies around the Coulomb barrier Marco Mazzocco, Università di Padova, Italy	16:50 New precision measurements of long-living alpha-decays Heinrich Wilsenach, TU Dresden, Germany	16:40 Investigation of deuteron scattering from ^{13}C at low energy Azamat Aimagambetov - Eurasian National University, Astana, Kazakhstan	16:40 Dipole polarizability of ^{68}Ni Johannes Simonis, Johannes Gutenberg-Universität Mainz, Germany	17:00 - 17:15 BEARTrap: A New Dedicated Setup for Beta-delayed Neutron Studies Gemma Wilson - Louisiana State University, USA	17:00-17:15 Production of the ^{229}Th nuclear clock isomer with brilliant X-ray Akihiro Yoshimi, Okayama University, Japan	17:00 Effect of Fock terms on nuclear symmetry energy based on Lorentz-covariant decomposition of nucleon self-energies Tsuyoshi Miyatsu - Tokyo University of Science, Japan	16:50 Analysis of K0 Sigma+ photoproduction off the proton using CLAS at Jefferson Laboratory Louise Clark, University of Glasgow, UK	16:50 Measurement of Longitudinal Single-Spin Asymmetry for W Boson Production in Polarized Proton-Proton Collisions at STAR Qinghua Xu, Shandong University, China

17:05 **Benchmarking the (d,p) reaction for obtaining (p, γ) rates for N=Z nuclei**

Steven Pain, Oak Ridge National Laboratory, USA

17:05 **Observation of excited states of ^{31}Ne using nuclear breakup reaction**

Takato Tomai, Tokyo Institute of Technology, Japan

17:05 **MUSE Beamline Studies**

Ethan Cline, Rutgers University, United States

16:55 - 17:10 **Odd-mass nuclei in the Cluster**

Shell Model
Roelof Bijker - ICN-UNAM, Mexico

16:55 **Strong one-neutron emission from two-neutron unbound states in decays of neutron-rich Ga isotopes**

Rin Yokoyama, University of Tennessee, USA

17:05 **Photoproduction of the $\Lambda(1520)$ hyperon with a 9 GeV photon beam at GlueX**

Peter Pauli, University of Glasgow, UK

17:05 **Gluon polarization measurements from longitudinally polarized proton-proton collisions at STAR**

Zilong Chang, Brookhaven National Laboratory, USA

17:20 - 18:30

Poster Session A

Location: Halls 1 and 2

19:00

Civic Reception

Location: Glasgow Science Centre, 50 Pacific Quay, Glasgow G51 1EA

20:00

Close

Location: Clyde Auditorium

Plenary Session 3

08:30-18:00 **Registration**

Location: Halls 1 and 2

09:00 **High-Resolution Laser Spectroscopy for the Study of Exotic Nuclear Properties**

Xiaofei Yang - Peking University, China, China

09:30 **Exploring Hot-QCD Matter Properties with Jets**

Joern Putschke - Wayne State University, USA

10:00 **Progress towards a nuclear clock: Properties of the 229-Thorium isomer**

Peter Thirolf - Ludwig-Maximilians-Universität München, Germany

10:30 **Refreshment Break**

Location: Halls 1 and 2

Location: Clyde Auditorium

Plenary Session 4

11:00 **Revealing the Origin of Mass**

Craig Roberts - Argonne National Laboratory, United States

From Nuclei to the Cosmos: Tracing Heavy-Element Production with the Oldest Stars

11:30 Anna Frebel - Massachusetts Institute of Technology, USA

12:00 **The future of neutrino physics and neutrino oscillations**

Mark Thomson - STFC, UK

12:30 **Lunch, Exhibition and Posters**

Nuclear Astrophysics

Location: Forth Room

Chair: Marialuisa Aliotta

Nuclear Reactions A

Location: Lomond

Auditorium

Chair: J.Al-Khalili

Nuclear Structure A

Location: Alsh Room 1

Chair: Gerda Neyens

Nuclear Structure B

Location: Alsh Room 2

Chair: Sean Freeman

Nuclear Structure C

Location: Boisdale Room 1

Chair: Iris Dillman

New Facilities and Instrumentation A

Location: Boisdale Room 2

Chair: Navin Alahari

Societal Impact and Applications of Nuclear Science

Location: Carron Room 1

Chair: Filip Kondev

Fundamental Symmetries and Interactions in Nuclei

Location: Carron Room 2

Chair: Mike Birse

QCD: Hadron Structure and Spectroscopy

Location: Dochart Room 1

Chair: Piotr Salabura

Nuclear Reactions B

Location: Dochart Room 2

Chair: Antonio Moro

Outreach and Engagement

Location: M4Room

Chair: Ed Simpson

13:30 **Neutron capture measurements at n_TOF**

Massimo Barbagallo,

National Institute for

Nuclear Physics, Italy

13:10 **High-energy direct reaction studies of light nuclei beyond the neutron dripline**

Nigel Orr, LPC-Caen,

France

13:30 **Theoretical description of fission in superheavy nuclei**

Michal Warda,

Uniwersytet Marii Curie-Skłodowskiej, Poland

13:30 **Simple structures in atomic nuclei**

Ronald Fernando Garcia Ruiz, CERN, Switzerland /

The University of Manchester, UK

13:30 **Novel Ab Initio Methods for Deformed and Weakly-Bound Nuclei**

Heiko Hergert, Michigan

State University, USA

13:30 **Major Accelerator Facilities for Nuclear Physics in Asia Pacific**

Kazuhiro Tanaka, KEK:

High Energy Accelerator Research Organization, Japan

13:30 **Tb-IRMA-V: Terbium ISOL Radioisotopes for Medical Applications in Flanders**

Thomas Coccolios, KU

Leuven, Belgium

13:30 **(Invited) Hunting for dark matter with neutron stars**

Sanjay Reddy -

University of Washington

13:30 **(Invited) The Proton Charge Radius (PRad) Experiment at JLab**

Haiyan Gao - Duke

University, United States

13:30 **Theories combining nuclear reactions and structure**

Willem Dickhoff,

Washington University in St. Louis, USA

13:30 **(Invited) How physics benefits when school students and their teachers contribute at the cutting edge**

Becky Parker, Institute

for Research in Schools, UK

13:55 **Direct cross section measurement of C-13(a,n) in the s-process Gamow peak**

Javier Balibrea-Correa,

University of Naples,

Italy

13:55 **Exploring continuum structures in reactions with three-body nuclei**

Jesús Casal, University of

Padova and INFN, Italy

13:55 **The study of the properties of spontaneously fissioning transactinoid nuclei synthesized in the complete fusion reactions with heavy ions**

Alexandr Svirikhin, Joint

Institute for Nuclear

Research, Russia

13:55 **52,53K β -delayed neutron emission to study 52,53Ca**

Andrea Gottardo, INFN-

Laboratori Nazionali di Legnaro, Italy

13:55 **19B isotope as a 17B-n-n three-body system in the unitary limit**

Jaume Carbonell, Institut

de Physique Nucleaire, France

13:55 **Experimental facilities at iThemba LABS**

Mathis Wiedeking,

iThemba LABS, South Africa

13:55 **Accelerator Centre for Exotic Isotopes (ACE Isotopes) pillar of the South African Isotope Facility (SAIF)**

Robert Bark, iThemba

LABS, South Africa

13:55 **Exploiting electron parity violation: from Standard Model tests to dark matter detection predictions**

Oscar Moreno -

Universidad Complutense de Madrid, Spain

13:55 **Beam Asymmetries from Light Scalar Meson Photoproduction on the Proton at GlueX**

Stuart Fegan - The

George Washington University, United States

13:55 **Isotopic fission yields : a new tool for the study of fission dynamics and nuclear structure**

Laurent Audouin, Paris-

Saclay University, France

14:00 **Citizen science experience with the Safecast collaboration. Rebels trusted with a cause?**

Iain G. Darby, University

of Glasgow, UK

14:10 Measurement of $^{20}\text{Ne}(\text{d},\text{p})^{21}\text{Ne}$ for studies of s-process and neutron poisoning Joseph Frost-Schenk, University of York, UK	14:10 A clear signature of the breakup modes for ^9Be on a proton target at 5.6MeV/nucleon Onoufriou Sgouros, INFN-LNS-Catania, Italy	14:10 Nuclear spectroscopy of the heaviest nuclei Daniel Cox, Lund University, Sweden	14:10 Closed-shell nature in neutrons of ^{54}Ca Shin'ichiro Michimasa, The University of Tokyo, Japan	14:10 Spectroscopy of unbound nuclei towards the possible doubly magic nucleus 280 Yosuke Kondo, Tokyo Institute of Technology, Japan	14:10 Towards laser spectroscopy in a supersonic gas jet at the S3 spectrometer (S3-LEB) Serge Franchoo, CNRS/IN2P3/IPN, France	14:20 Progress towards the primary standardisation and measurement of the gamma emission intensities and half-lives of the theragnostic ^{152}Tb and ^{155}Tb radioisotopes Sean Collins, National Physical Laboratory, UK	14:10 APEX (A'EXperiment): A search for Dark Matter at Jefferson Lab John Williamson - University of Glasgow, United Kingdom	14:10 (Invited) New insights into the anomalous magnetic moment of the muon Marina Marinkovic - Trinity College Dublin	14:10 Studying the Pygmy Dipole Resonances with isoscalar and isovector probes Edoardo G. Lanza, I.N.F.N. - Sezione di Catania, Italy	14:30 Simulating radiation detectors and cancer therapy with high-school students Marc Labiche, STFC Daresbury Laboratory, UK
14:25 The Study of the $^{22}\text{Ne}(\alpha,\gamma)^{26}\text{Mg}$ Reaction at LUNA Denise Piatti, INFN of Padua, Italy	14:25 Study of ^{10}Be excited states using single-neutron pickup reactions on ^{11}Be Fred Sarazin, Colorado School of Mines, USA	14:25 ^{243}Es , ^{249}Md : from production cross-sections measurement to prompt and delayed spectroscopy Marine Vandebrouck, CEA Saclay IRFU/DPhN, France	14:25 Coulomb excitation of the non-axial super-deformed structure in ^{42}Ca Katarzyna Hadynska-Klek, University of Warsaw, Poland	14:25 ^{11}Be exotic decay modes measured with the pAT-TPC Bruno Olaizola, TRIUMF, Canada	14:25 Implementation of the ELIGANT neutron and gamma detector arrays at ELI-NP Luigi Capponi - Extreme Light Infrastructure - Nuclear Physics, Romania	14:35 Theragnostics - The Production of Terbium Rebeckah Trinder, University of Birmingham, UK	14:25 On a new light-particle candidate observed in high-energy nuclear transitions Attila Krasznahorkay - Institute for Nuclear Research, Hungarian Academy of Sciences (MTA Atomki), Hungary	14:35 Process-independent effective charge: From QCD Green's functions to hadron phenomenology José Rodríguez-Quintero - University of Huelva, Spain	14:25 Sensitivity of one-neutron knockout of halo nuclei to the their nuclear structure Chloé Hebborn, Université libre de Bruxelles, Belgium	14:50 Virtual Binding Blocks Matthew Shelley, University of York, UK
14:40 First inverse kinematics study of the $^{22}\text{Ne}(\text{p},\gamma)^{23}\text{Na}$ reaction Matthew Williams, TRIUMF, Canada	14:40 Time-dependent Hartree-Fock Theory for multinucleon transfer reactions Kazuyuki Sekizawa, Niigata University, Japan	14:40 The absence of the Z=92 subshell closure and shape transition in short-lived actinides around N=130 Zhong Liu, Chinese Academy of Sciences, China	14:40 Electric monopole superdeformed band in ^{40}Ca Eiji Ideguchi, RCNP, Osaka University, Japan	14:40 Halo-like structure in ^7He nucleus Alla Demyanova, NRC Kurchatov Institute, Russia	14:40 Design, construction and performance of magnetised mini-ICAL detector module Pethuraj Sankaranarayanan, Tata Institute of Fundamental Research, India	14:50 - 15:05 Targeted cancer therapy with the alpha emitter actinium-225 Alban Kellerbauer, European Commission, Germany	14:40 Machine Learning for Antihydrogen Detection within ASACUSA Bernadette Kolbinger - Stefan Meyer Institute, Austria	14:40 Isobaric charge-exchange reactions: a tool to study the excitation of baryonic resonances in exotic nuclear matter Jose Luis Rodriguez Sanchez, GSI Helmholtzzentrum für Schwerionenforschung GmbH & University of Santiago de Compostela, Germany		
14:55 The $^3\text{He}(\alpha,\gamma)^7\text{Be}$ reaction and the underground laboratory Dresden Felsenkeller Konrad Schmidt, TU Dresden, Germany	14:55 Nucleon-deuteron scattering with new generation of chiral forces Roman Skibinski, Jagiellonian University, Poland	14:55 Investigation of the nuclear structure of the lowest states in ^{229}Th Pierre Becker, University of York, UK	14:55 Fine structure of the IsoScalar Giant Monopole Resonance (ISGMR) in $^{40,42,44,48}\text{Ca}$ using alpha inelastic scattering at zero degrees Sunday Olorunfunimi, University of the Witwatersrand, South Africa	14:55 Lifetime measurements of excited states in neutron-rich C and O isotopes as a test of the three-body forces Michał Ciemała, IFJ PAN Krakow, Poland	14:55 Development of a Radiation Detector with Particle Discrimination for Nuclear Security Applications Francis Thomson, University of Glasgow, UK	14:55 Precision half-life measurements of mirror transitions at the University of Notre Dame Maxime Brodeur - University of Notre Dame, United States	14:55 The MUGAST-AGATA-VAMOS campaign at GANIL Marlène Assié, IPN, France			
15:10 Refreshment Break Nuclear Astrophysics Location: Forth Room Chair: Alison Laird	Nuclear Reactions A Location: Lomond Auditorium Chair: W Catford	Nuclear Structure A Location: Alsh Room 1 Chair: Jacek Dobaczewski	Nuclear Structure B Location: Alsh Room 2 Chair: Tibor Kibedi	Nuclear Structure C Location: Boisdale Room 1 Chair: Bertram Blank	New Facilities and Instrumentation A Location: Boisdale Room 2 Chair: Andrew Boston	Societal Impact and Applications of Nuclear Science Location: Carron Room 1 Chair: Gerda Neyens	Neutrinos and Nuclei Location: Carron Room 2 Chair: Alfredo Galindo-Uribarri	New Facilities and Instrumentation B Location: Dochart Room 1 Chair: Zsolt Podolyak	QCD: Parton Phenomena Location: Dochart Room 2 Chair: Barbara Pasquini	Outreach and Engagement Location: M4Room Chair: Christian Diget

15:40 RIB studies for explosive scenarios and future opportunities at FRIB Chris Wrede, Michigan State University, USA	15:40 Study of fusion hindrance in the system $^{12}\text{C} + ^{24}\text{Mg}$ Giovanna Montagnoli, University and INFN Padova, Italy	15:40 Thouless-Valatin moment of inertia from linear response theory Markus Kortelainen, University of Jyväskylä, Finland	15:40 New Constraints on the Symmetry Energy of Neutron-rich Matter from the Systematics of the Electric Dipole Response in Stable Tin Isotopes Sergej Bassauer, IKP, TU Darmstadt, Germany	15:40 Neutron Skin Effects in Mirror Energy Differences: The Case of ^{23}Mg-^{23}Na Alberto Boso, National Physical Laboratory, UK	15:40 (Invited) The project of the South African Isotope Facility (SAIF): the pillar of iThemba-LABS Long Range Plan Faical Azaiez, iThemba LABS, South Africa	15:40 (Invited) The commercial application of ultra-sensitive laser spectroscopy techniques for radioisotope dating Kieran Flanagan, University of Manchester, UK	Neutrinoless double-beta decay: novel insights on nuclear matrix elements Javier Menendez, The University of Tokyo, Japan	15:40 The SPES facility at Legnaro National Laboratories Tommaso Marchi, INFN - LNL, Italy	15:40 Prospects on nucleon tomography Hervé Moutarde, IRFU, CEA, France	15:40 Engaging a positive view of nuclear science and nuclear research via nuclear medicine Thomas Cocolios, KU Leuven, Belgium
16:05 Discovery of exceptionally strong electron-capture transition sheds new light on the fate of intermediate-mass stars Karsten Riisager - Aarhus University	15:55 Study of spin-isospin responses of ^{11}Li and ^{14}Be neutron drip line nuclei with PANDORA László Stuhl, University of Tokyo (CNS), Japan	15:55 Attempts to derive nuclear energy density functional directly from renormalization group approaches Haozhao Liang, RIKEN / University of Tokyo, Japan	15:55 Systematic investigation of neutron and proton removal from medium-mass neutron-rich nuclei Jose Benlliure, University of Santiago de Compostela, Spain	15:55 Electron Capture of ^{8}B into highly excited states of ^{8}Be Maria Jose Garcia Borge - CSIC, Spain	16:05 (Invited) High Resolution γ-Ray Spectroscopy of Exotic Nuclei: AGATA Magda Zielinska - IRFU, CEA, Universite Paris-Saclay	16:05 Application of plasma mass spectrometry for half-life measurement of medium and long-lived radionuclides Ben Russell, National Physical Laboratory, UK	16:05 Searching for neutrinoless double beta decay Stefan Schönert, TU München, Germany	16:05 Towards high-resolution in-beam gamma-ray spectroscopy at the RIBF Pieter Doornenbal, RIKEN Nishina Center, Japan	16:05 Energy, angular momentum and pressure force distributions inside nucleons Cedric Lorce, Ecole Polytechnique, France	16:10 Outreach and Engagement in Australia and the Indo-Pacific Region Aj Mitchell, Australian National University, Australia
16:20 Using a novel method to determine resonance strengths within $^{26}\text{Mg}(p,\gamma)^{27}\text{Si}$ using GRETINA and 5800 Spectrometer Samuel Hallam, University of Surrey, UK	16:10 Reaction mechanisms of $^{17}\text{F} + ^{58}\text{Ni}$ at energies around the Coulomb barrier Lei Yang, China Institute of Atomic Energy, China	16:10 Proton-neutron pairing description using symmetry-restored mean-field methods Antonio Marquez Romero, University of York, UK	16:10 Study of exotic decay near proton drip-line Ushasi Datta, Saha Institute Of Nuclear Physics, India	16:10 The structure of ^{25}Na measured using (d,p) transfer: relevance to the $^{24}\text{Al}(p,g)^{25}\text{Si}$ reaction rate in astrophysical environments Wilton Catford, University of Surrey, UK	16:30 New separators for heavy-element research and in-flight radioactive beams at ATLAS Birger Back, Argonne National Laboratory, USA	16:30 Elucidating climate change in sub-Saharan Africa with accelerator mass spectrometry Simon Mullins, iThemba LABS, South Africa	16:30 Latest results from the first background free search for neutrinoless double beta decay – GERDA Phase II Konstantin Gusev, Joint Institute for Nuclear Research, Russia	16:30 Status of the super separator spectrometer S3 for the spiral2 facility Antoine Drouart, CEA, France	16:20 Lensing function relation in hadrons Simone Rodini, University of Pavia & INFN, Italy	16:40 Changing the wider perception of nuclear: approaches through public engagement Abby Powell, University of Glasgow, UK
16:35 Gamma-spectroscopic study of the exotic, neutron-deficient ^{34}Ar nucleus for explosive nuclear astrophysics Adam Kennington, University of Surrey, UK	16:25 Inclusive breakup measurements of the $^{7}\text{Li} + ^{119}\text{Sn}$ reaction Juan Pablo Fernández-García, University of Seville, Spain	16:25 How to Improve Functionals in Density Functional Theory? Tomoya Naito, The University of Tokyo and RIKEN Nishina Center, Japan	16:25 Neutron emission property after nuclear muon capture Takeshi Saito, the University of Tokyo, Japan	16:25 Spectroscopy of neutron-drip-line nuclei using SAMURAI at RIBF Takashi Nakamura, Tokyo Institute of Technology, Japan	16:45 Status of the new generation facility HIAF Guoqing Xiao, Institute of Modern Physics, Chinese Academy of Sciences, China	16:55 Development of a beta-gamma coincidence detection system for CTBT Verification Matthew Goodwin, University of Surrey, UK	16:45 Recent Results from the MAJORANA DEMONSTRATOR Neutrinoless Double-Beta Decay Experiment Christopher Haufe, University of North Carolina at Chapel Hill, USA	16:45 Inaugural experiments with the 10 PW High Power Laser System at ELI-NP Klaus Spohr, Extreme Light Infrastructure, Romania	16:35 Extraction of $\text{ALU}_{\text{in}}(\Phi)$ moments from the hard exclusive $n\pi^+$ channel off the unpolarized hydrogen target in a wide range of kinematics with CLAS at 5.5 GeV Stefan Diehl, Justus Liebig University Giessen and University of Connecticut, Germany	17:00 The 3D nuclide chart Edward Simpson, Australian National University, Australia
16:50 NEW CALCULATED REACTION RATES FOR THE ASTROPHYSICAL MIRROR RP REACTIONS $^{34}\text{S}(p,\text{gamma})^{35}\text{Cl}$ and $^{34}\text{g,m Cl}(p,\text{gamma})^{35}\text{Ar}$ Chris Wrede - Michigan State University	16:40 - 16:55 Proton-induced reactions on ^{107}Pd at around 30 MeV/nucleon: First result using slowed-down RI beams at OEDO Masanori Dozono, The University of Tokyo, Japan	16:40 Regularized pseudopotential for mean-field calculations Karim Bennaceur, Université Claude Bernard Lyon I, France	16:40 Nuclear structure studies of low-lying collective quadrupole excitations of ^{126}Xe via β^+/EC decay spectroscopy Farnaz Ghazi Moradi, University of Guelph, Canada	16:40 Beta-delayed proton and two-proton decays from sd-shell nuclei Chengjian Lin, China Insitute of Atomic Energy, China	17:00 - 17:15 Isolde V : a major upgrade to the CERN-Isolde facility Tim Giles, CERN, Switzerland	17:10 - 17:25 Safecast radiation dose-rate measurements: A citizen science driven, global open source big data set Iain Darby, Safecast, Japan	17:00 - 17:15 Double and single charge exchange and multi-nucleon transfer reactions for the system $^{20}\text{Ne} + ^{116}\text{Cd}$ at 15 AMeV Salvatore Calabrese, University of Catania, LNS-INFN, Italy	17:00 - 17:15 Fission Fragment Tracking Experiments with the NIFFTE fission TPC Uwe Greife, Colorado School of Mines, United States	16:50 What can we learn about twist-2 GPDs through quasi-distributions? Shohini Bhattacharya, Temple University, USA	

17:05 **Mass measurements of neutron-deficient Y, Zr, and Nb isotopes and their impact on rp and vp nucleosynthesis processes**
Meng Wang, Institute of Modern Physics, CAS, China

16:55 - 17:10 **Excitation modes and collective mass from Skyrme energy density functional**
Kouhei Washiyama, Kyushu University, Japan

16:55 - 17:10 **DWIA analysis of coherent pion photoproduction for the study of the evolution of the neutron skin thickness in the tin isotopic chain**
Frederic Colomer Martinez, Université libre de Bruxelles (ULB), Belgium

17:20 **Poster Session B and Exhibition**
Public Lecture:

19:15 **Nuclear Physics and the Making of the Modern Periodic Table**
Professor Jim Al-Khalili

20:15 Close

Plenary Session 5

Location: Clyde Auditorium

09:00 **Gravitational waves as Probes for Nuclear Physics**

Jo Van Den Brand - Nikhef and VU University of Amsterdam, Netherlands

09:30 **Electron scattering for short-lived nuclei**

Toshimi Suda - Research Center for Electro-Photon Science, Tohoku University, Japan

10:00 **Explosive scenarios in astrophysics: Observations, models and nuclear inputs**

Ani Aprahamian - University of Notre Dame, USA

10:30 **Refreshment Break**

Location: Halls 1 and 2

Plenary Session 6

Location: Clyde Auditorium

11:00 **Probing the NN interaction up to 1 GeV/c using measurements of Short- Range Correlations in nuclei**

Or Hen - MIT, USA

11:30 **Relativistic heavy-ion collisions for the investigation of strongly-coupled quark-gluon plasmas**

Chun Shen - Wayne State University, USA

12:00 **The decay of silver-129**

Robert Shearman - National Physical Laboratory, UK

12:30 **Lunch, Exhibition and Posters**

Location: Halls 1 and 2

14:00 **IUPAP Committee meeting (closed)**

Location: Carron Room

08:30-18:00 Registration
Location: Halls 1 and 2

Plenary Session 7
Location: Clyde Auditorium

09:00 Challenges in Laser Spectroscopy of the Heaviest Elements
Michael Block - GSI / HIM / JGU, Germany

09:30 Nuclear gear shapes studies with radioactive ion beams
Liam Gaffney - University of Liverpool, UK

10:00 Searching for the quark-gluon plasma from proton-proton to heavy-ion collisions
Alice Ohlson - Lund University, Sweden

10:30 Refreshment Break
Location: Halls 1 and 2

Plenary Session 8
Location: Clyde Auditorium

11:00 Nuclear astrophysics in underground laboratories
Francesca Carraway - National Institute for Nuclear Physics

11:30 Exotic Meson Spectroscopy
Justin Stevens - William & Mary, USA

12:00 Towards quantum computations of atomic nuclei
Gaute Hagen - Oak Ridge National Laboratory, USA

12:30 Lunch, Exhibition and Posters

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Location: Lomonosov
Auditorium
Chair: Anika Lennarz

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Location: Ash Room 1
Chair: Margus Scheeck

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Location: Ash Room 2
Chair: Kieran Flanagan

Nuclear Structure C
Location: Bouldale
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Location: Carron Room 2
Chair: Angela Badala

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Nuclear Reactions C
Location: Ash Room 2
Chair: Birger Back

Nuclear Structure A
Location: Ash Room 1
Chair: Margus Scheeck

Nuclear Structure B
Location: Ash Room 2
Chair: Kieran Flanagan

Nuclear Structure C
Location: Bouldale
Room 1
Chair: Judith McGovern

New Facilities and Instrumentation A
Location: Bouldale
Room 2
Chair: Helen Boston

Societal Impact and Applications of Nuclear Science
Location: Carron Room 1
Chair: Patrick Regan

Hot and Dense Nuclear Matter
Location: Carron Room 2
Chair: Angela Badala

QCD: Hadron Structure and Spectroscopy
Location: Dochart Room 1
Chair: Anika Thiel

QCD: Partonic Phenomena
Location: Dochart Room 2
Chair: Daria Sokhan

Neutrinos and Nuclei
Location: M4Room
Chair: Paul Soler

13:30 Low-energy studies for nuclear astrophysics
Carlo Bruno, University of Edinburgh, UK

13:30 Clear evidence of α clusters in the ground state of heavy nuclei
Junji Tanaka, TU Darmstadt / GSI, Germany

13:30 Fission studies using multi-nucleon transfer reactions
Katsuhisa Nishio, Japan Atomic Energy Agency, Japan

13:30 Characterization of the shape-staggering effect in neutron-deficient mercury nuclei
Simon Selz, CERN, Switzerland

13:30 Atomic nucleus: The open quantum system perspective
Marek P

08:30-18:00	Registration Location: Halls 1 and 2 Plenary Session 9 Location: Clyde Auditorium Recent advances in the description of reactions involving exotic nuclei Pierre Capel - Institut für Kernphysik, Germany Anti-atom physics Michael Doser - CERN Refreshment Break Location: Halls 1 and 2											
09:30												
10:00												
10:30												
11:00	Nuclear Astrophysics Location: Forth Room Chair: Christian Dögtl	Nuclear Reactions A Location: Lombard Auditorium Chair: W.Gelley	Nuclear Structure A Location: A10h Room 1 Chair: Alfredo Poves	Nuclear Structure B Location: A10h Room 2 Chair: Mathis Wiedeking	Nuclear Structure C Location: Boidale Room 1 Chair: Roelof Bijker	New Facilities and Instrumentation A Location: Boidale Room 2 Chair: Daria Sokhan	Societal Impact and Applications of Nuclear Science Location: Carron Room 1 Chair: Helen Boston	Hot and Dense Nuclear Matter Location: Carron 2 Chair: Alice Ohyan	QCD: Hadron Structure and Spectroscopy Location: Dochart Room 1 Chair: Douglas MacGregor	Fundamental Symmetries and Interactions in Nuclei Location: M4 Room Chair: Carlo Barbieri	QCD: Partonic Phenomena Location: Dochart Room 2 Chair: Kawata Hifumi	
11:00 (Invited)	Experiments on astrophysical reactions with low-energy unstable beams at CRIB Hidetoshi Yamaguchi, The University of Tokyo, Japan	Recent results on heavy-ion induced reactions of interest for neutron-rich double beta decay at INFN-LNS Francesco Cappuzzello, University of Catania and INFN-LNS, Italy	Supraallowed α decay to doubly magic 100Sn Dariusz Seweryniak, Argonne National Laboratory, USA	Highlights in nuclear structure from ISAC-TRIUMF Anna A Kwiatkowski, TRIUMF, Canada	From alpha clustering to homogeneous matter Alexandros Gerelis, University of Guelph, Canada	Early science results from Jlab at 12 GeV and the road to nuclear femtomography with EIC Patricia Rossi, Jefferson Lab, USA	Linking the past to the future: applying environmental radiometrics and luminescence methods to understand dynamic environments David Sanderson, SUERC, UK	Higher order symmetric cumulants contributions to muon anomalies: $g-2$ and muonic hydrogen Cindy Mordasini, Technische Universität München, Germany Vladimir Pascalutsa, University of Mainz, Germany	Hadronic contributions to neutron EDM experiments Jeffrey Martin, The University of Winnipeg, Canada	Current status of neutron EDM experiments Jeffrey Martin, The University of Winnipeg, Canada	Beam-normal single spin asymmetries in electron-proton scattering Paul King, Ohio University, USA	
11:25	Nuclear symmetry energies at supra-saturation densities extracted from observations of neutron stars and gravitational waves Bao-Asi Li, Texas A&M University-Commerce, USA	Study of the scattering of ^{15}C at energies around the Coulomb barrier Israel Marti, University of Liverpool, UK	Detailed level structure of the doubly magic ^{54}Ca from knockout reactions Frank Browne, RIKEN Nishina Center, Japan	Structure of ^{30}Mg studied by in-beam gamma-ray spectroscopy via neutron knockout reactions Noritaka Kitamura, University of Tokyo, Japan	Determination of the positive parity band for the $^{13}\text{C} + \pi$ molecular rotation in BBO Tianlu Ye, Peking University, China	Future physics opportunities with the ALICE apparatus Stefania Beoli, University of Turin, Italy	The role of nuclear data within the IAEA Parislike Demetriou, National Centre for Scientific Research, Greece	Assessing the degree of thermalization in high-multiplicity pp events at the LHC Nachiketa Sarkar, Variable Energy Cyclotron Centre, India	Meson transition form factor measurements from MAMI A2 Lena Heijlenskjöld, Johannes Gutenberg University Mainz, Germany	Search for the electric dipole moment of the neutron at PSI Vera Bondar, ETH Zurich, Switzerland	Exploring nucleon structure and hadronization with ϕ-hadrons and hadrons in jets at STAR Jin Drachenberg, Jüliche Christian University, USA	
11:40	Heavy element production in supernovae and neutron-star mergers: roles of neutron interactions and nuclear fission modes Taka Kajino, The University of Tokyo, Japan	Mechanisms for suppression of complete fusion in reactions of ^{7}Li Kaitlin Cook, Australian National University, Australia	Structure of ^{208}Po populated through r/β-α decay Matthew Brunet, University of Surrey, UK	Toward the limits of the N=40 island inversion: the ^{130}Ba isotopes Francesco Recchia, University of Padova, Italy	Bogoliubov Many-Body Perturbation Theory Pierre Arhuths - University of Surrey, United Kingdom	New experimental capabilities at the GELINA Facility Carlos Parada-Dobarrán, EC-JRC, Belgium	Medical applications based on laser-plasma acceleration technologies at LPA2 Jose Benlilue, University of Santiago de Compostela, Spain	Medical applications based on laser-plasma acceleration technologies at LPA2 Carlos Parada-Dobarrán, EC-JRC, Belgium	Energy and system size dependence of neutral meson and direct photon production at the LHC, measured with ALICE Ana Marin, GSI Helmholtzzentrum für Schwerionenforschung GmbH, Germany	Precision spectroscopy of pionic atoms at RIBF Kenta Itahashi, RIKEN, Japan	Time reversal violating NN interactions Vladimir Gus'kov, University of South Carolina, USA	The proton structure via double parton scattering Matteo Rinaldi, Università degli studi di Perugia, Italy
11:55	The pasta structure of neutron star matter Jorge Lopez, niversity of Texas, USA	Projectile fragmentation reactions of radioactive beams Andreas Heinz, Chalmers University of Technology, Sweden	Exploring shape coexistence between doubly magic ^{40}Ca and ^{56}Ni through pair-conversion spectroscopy Jackson Dowie, Australian National University, Australia	Single-particle structure approaching the N=20 "island of inversion" - a measurement of the $^{20}\text{Ne}(\alpha, p)^{23}\text{Mg}$ reaction David Sharp, University of Manchester, UK	Sensitivity of core-n potential on configuration mixing in ground state of neutron-rich exotic nuclei Jagjit Singh, Research Center for Nuclear Physics, Japan	HISPANOS facility and the new neutron beam line for TOF measurements at the Spanish Nations Accelerator Lab (CNA) Begona Fernández, University of Seville, Spain	Improving hadron radiation therapy using nuclear reactions Christina Burbridge, University of Guelph, Canada	Energy and multiplicity dependence of hadronic resonance production with ALICE at the LHC Angela Badalá, INFN - Sezione di Catania, Italy	Search for η-mesic nuclei using (p, d) reaction with FRS/Super-FRS at GSI/FAIR Yoshiki Tanaka, GSI GmbH, Germany	Neutron lifetime puzzle - contributions from Europe Peter Geltenbort, Institut Loree Langevin, France	Probing partonic phenomena at the future U.S.-based electron-ion collider Salvatore Fazio, Brookhaven National Laboratory, USA	
12:10	Magnetized rotational neutron stars and the MR relations Chinatsu Watanabe, Saitama University, Japan	Nuclear "diffuseness probed by proton-nucleus diffraction" Wataru Horiuchi, Hokkaido University, Japan	In-beam gamma-ray spectroscopy of ^{78}Ni reveals its doubly magic character Kyo Taniuchi, University of York, UK	Nuclear Shell Evolution in the Island of Inversion Studied via the $^{28}\text{Mg}(\alpha, n)^{31}\text{Al}$ reaction Tammy Zidar - University of Guelph	Solving the many-body nuclear problem with neural networks James Keeble, University of Surrey, UK	Positron beam and physics at the Jefferson Laboratory Eric Voutier, Institut de Physique Nucléaire, IN2P3, CNRS, France	12:20-12:35 Positron beam and physics at the Jefferson Laboratory Eric Voutier, Institut de Physique Nucléaire, IN2P3, CNRS, France	The impact of nuclear physics in nuclear medicine Ana Denis-Bacelar, National Physical Laboratory, UK	Constraining the equation of state of neutron stars using GW170817 Rana Nandi, Tata Institute of Fundamental Research, India	Probing low-energy QCD with kaonic atoms at DAΦNE Johann Zmeskal, Stefan-Meyer Institute for Subatomic Physics, Shinji Okada, RIKEN, Japan	Kaonic atom α ray spectroscopy with superconducting detector Shinji Okada, RIKEN, Japan	
12:25-12:40	Nuclear Physics a tool to understand magnetars and gravitational waves Debora Peres Menezes, UFSC, Brazil	12:25-12:40 Solving the apparent inconsistency between the GSI and RIKEN estimates of the E1 strength in ^{11}Be Laura Mochini, Université libre de Bruxelles, Belgium	12:25-12:40 Nuclear structure from beta-decay lifetimes: $N=50$ magic number and shell structure around ^{78}Ni Kenichi Yoshida, Kyoto University, Japan	12:25-12:40 In-beam γ-ray spectroscopy of ^{50}K and ^{55}Ca via nuclear knockout reactions Taluma Koiwai - The University of Tokyo, Japan	Momentum distributions and short-range correlations in few-nucleon systems using realistic interactions Michele Viviani, INFN - Pisa, Italy	12:20-12:35 Positron beam and physics at the Jefferson Laboratory Eric Voutier, Institut de Physique Nucléaire, IN2P3, CNRS, France	12:20-12:35 The impact of nuclear physics in nuclear medicine Ana Denis-Bacelar, National Physical Laboratory, UK	12:00-12:15 Constraining the equation of state of neutron stars using GW170817 Rana Nandi, Tata Institute of Fundamental Research, India	12:25-12:40 Newly completed Jlab experiment (E12-17-003): determine the unknown A_1 interaction by investigating the possible Δ resonance Ligiang Tang, Hampton University (and JLab), USA	12:25-12:40 Nuclear Schiff moment of ^{19}F isotopes in the nuclear shell model Naotaka Yoshinaga, Saitama University, Japan	12:25-12:40 Nuclear Schiff moment of ^{19}F isotopes in the nuclear shell model Naotaka Yoshinaga, Saitama University, Japan	
12:40	Lunch Location: Halls 1 and 2 Plenary Session 10 Location: Clyde Auditorium											
13:30	Evolution of nuclear structure in exotic nuclei Alexandra Gade - Michigan State University, United States											
14:00	Quo vadis Neutrinos? Juan Jose Gomez-Cadenas - DIPC, Spain											
14:30	IAEA activities in support of nuclear physics research and applications Danas Ridikas - The International Atomic Energy Agency, Austria											
15:00	Closing ceremony											
15:15	Close											