

# Parallel sessions

## Monday 6<sup>th</sup> April 13:00 – 15:00

### Session 1

13:00 – 13:15	Alan Howard	Neutron vacancies outside N=82 isotones
13:15 – 13:30	Mike Taylor	Investigation into the low energy structure of Ru isotopes via g-factor measurements
13:30 – 13:45	James Ollier	The Observation of new ultrahigh-spin in rotational structures in $^{159,160}\text{Er}$
13:45 – 14:00	Nicola Lumley	Search for Multiphonon Vibrations in $^{180}\text{Os}$
14:00 – 14:15	Lee Angus	Two quasiparticle bands in $^{120}\text{Ba}$
14:15 – 14:30	Paul Wady	Gamma-ray spectroscopy of $^{112,113}\text{Cs}$
14:30 – 14:45	Riccardo Orlandi	Asymmetries in B(E1) transition rates of analogue states in $^{67}\text{As}$ and $^{67}\text{Se}$ . A coherent enhancement?
14:45 – 15:00	Philippa Marley	Heavy ion radiative capture of $^{12}\text{C} + ^{12}\text{C}$

### Session 2

13:00 – 13:15	Christian Diget	The $^{18}\text{N}(\alpha, p)^{21}\text{Na}$ Hot-CNO cycle breakout reaction
13:15 – 13:30	Abderrahmane Yakhelef	$^{18}\text{C}$ three body calculation and resonant $^{17}\text{C}(n, \gamma)^{18}\text{C}$ reaction rates
13:30 – 13:45	Natasha Timofeyuk	Are spectroscopic factors in mirror states the same?
13:45 – 14:00	BS Nara Singh	Cross section measurements on $^3\text{He}(\alpha, \gamma)^7\text{Be}$ direct capture reaction around $E_{\text{cm}} = 2$ MeV
14:00 – 14:15	Elizabeth Cunningham	Effect of spin-spin interactions on polarisation observables from nucleon-nucleus scattering
14:15 – 14:30	Emma Suckling	The role of the tensor force within the Skyrme Hartree-Fock model for deformed systems
14:30 – 14:45	Tom Munoz	The search for the $2^+$ excitation of the Hoyle state using the $^{12}\text{C}(^{12}\text{C}, 3\alpha)^{12}\text{C}$ reaction
14:45 – 15:00	John Taylor	Quasifree Scattering Reaction Studies at GSI

## **Tuesday 7<sup>th</sup> April 13:00 – 15:00**

### **Session 1**

13:00 – 13:15	Diego Torres	Evolution of shell structure in the neutron-rich $_{37}\text{Rb}$ isotopes
13:15 – 13:30	Baharak Hadinia	Search for discrete states in the third minimum of $^{234}\text{U}$
13:30 – 13:45	David O'Donnell	Spectroscopy approaching the limits of existence: studies of extremely neutron-deficient Pt and Hg nuclei
13:45 – 14:00	Richard Powis	Systematics of nuclear charge radii and deformation in the $Z\approx 40$ , $N\approx 60$ region
14:00 – 14:15	Ernesto Mané	Nuclear spins and moments of n-rich Ga by bunched-beam collinear laser spectroscopy
14:15 – 14:30	Andrew Petts	Coulomb Excitation of Light Hg Isotopes
14:30 – 14:45	Andrew Robinson	Evolution of nuclear shape in the light radon isotopes
14:45 – 15:00	Oliver Roberts	Geant4 Simulations and Neutron Response of LaBr <sub>3</sub> Ce Crystal Scintillator for PARIS

### **Session 2**

13:00 – 13:15	Nawras Al-Dahan	Structure of $N \geq 126$ nuclei produced in fragmentation of $^{238}\text{U}$
13:15 – 13:30	Ana Denis Bacelar	Angular momentum population in fragmentation reactions
13:30 – 13:45	Tim Brock	Isomer Studies of Neutron-deficient Palladium Isotopes
13:45 – 14:00	Nasser Alkhomashi	Beta delayed spectroscopy of $^{188,190,192}\text{Ta} \rightarrow \text{W}$
14:00 – 14:15	Heidi Watkins	Plunger measurements of shape coexistence in neutron deficient Au and Pt nuclei
14:15 – 14:30	Edward Parr	The Structure and Decay of the K-isomer in $^{252}\text{No}$
14:30 – 14:45	Yury Tsyganov	Results of $^{226}\text{Ra}+^{48}\text{Ca}$ Experiment
14:45 – 14:55	Paul Sapple	In-beam spectroscopy of the $N = 85$ isotone $^{159}\text{W}$
14:55 – 15:05	Masood Akmali	High Spin Studies of $^{130}\text{Ce}$

## **Wednesday 8<sup>th</sup> April 11:00 – 12:30**

### **Session 1**

11:00 – 11:15	Euan Cowie	A Disc DIRC for PID for the PANDA experiment at FAIR
11:15 – 11:30	Sparsh Navin	First Physics in ALICE
11:30 – 11:45	Tom Jude	Strange Meson Photoproduction At Threshold Energies
11:45 – 12:00	Zoe Matthews	High Multiplicity Proton-Proton Physics at ALICE
12:00 – 12:15	Peter Wu	The Nuclear Symmetry Energy and The Equation of State
12:15 – 12:30	Mark Sikora	Polarimetry in Meson Photoproduction Reactions at MAMI

### **Session 2**

11:00 – 11:15	Martin Jones	The optimisation of a Compton Camera for high energy Gamma rays
11:15 – 11:30	Laura Harkness	Experimental limitations of an optimised Compton camera for medical imaging
11:30 – 11:45	David Oxley	The Generation of an experimental Pulse Shape Basis for Nuclear Medical Imaging Applications
11:45 – 12:00	Ryan Kempley	AGATA detector source test
12:00 – 12:15	Carl Unsworth	Characterisation of an asymmetric AGATA detector
12:15 – 12:30	Simeon Spencer	Improving CZT pixilated detectors for tracking and event identification purposes