

## **Monday 12 April**

13:30

## Parallel Stream 7: Nuclear Structure above Sn Session | Location: Edinburgh, Remote | Convener: Liam Gaffney 13:30-13:45 $\beta$ -delayed neutron emission from r-process nuclei along the N=82 shell closure Oscar Hall 13:45-14:00 Excited States in the Rare-Earth Nucleus 129Pr Speaker Lorna Waring 14:00-14:15 Structure of neutron rich nuclei in the 132Sn region Speaker Tom Parry 14:15-14:30 Identification of sub-µs isomeric states in the odd-odd nucleus 178Au. Speaker Stephen Gillespie 14:30-14:45 Calculated octupole spectra near Pb-208 with a time-depdendent method Speaker Paul Stevenson 14:45-15:00 Developing a charge plunger method for lifetime measurements in the heavy elements Speaker Jacob Heery 15:00

## **Tuesday 13 April**

14:45

# Parallel Stream 7: Nuclear Astrophysics 1 Session | Location: Edinburgh, Remote | Convener: Carlo Bruno 14:45-15:00 Nucleosynthesis inside common envelope accretion Alexander Hall-Smith 15:00-15:15 The $22Ne(\alpha,n)25Mg$ reaction rate and its key role in low metallicity AGB stellar nucleosynthesis Speaker Umberto Battino 15:15-15:30 Investigating The Astrophysical s-Process with DRAGON: Direct Measurement of the $22Ne(\alpha,\gamma)26Mg$ Reaction Speaker Shaheen Jazrawi 15:30-15:45 **21Ne and the Lighter Heavy Elements** Speaker Cameron Angus 15:45-16:00 New measurement of oxygen-15 alpha capture for neutron stars in binary systems through radioactive ion beam alpha transfer Speaker Jennifer Sanchez Rojo 16:00-16:15 How good a poison is **160?** Speaker Philip Adsley

16:15

## **Thursday 15 April**

11:30

#### Parallel Stream 7: Nuclear Astrophysics 2

Session | Location: Edinburgh, Remote | Convener: Dr James Smallcombe

11:30-11:45

Mass measurement and energy level analysis of 190-Re using the Q3D magnetic spectrograph

Speaker

Mark Griffiths

11:45-12:00 The 12C+12C fusion cross-section at sub-coulomb barrier energies

Speaker

Jose Gustavo Vega Romero

12:00-12:15

Developing an Active-Target detector for studying nuclear reactions of astrophysical significance

Speaker

Soham Chakraborty

12:15-12:30

The Impact of Nuclear Physics Uncertainties on Nucleosynthesis in the First Stars

Speaker

Samuel Lloyd

12:30