

Stars, Supernovae and Nucleosynthesis, 4-5 September 2017, Edinburgh

MONDAY, 4th September, Higgs Centre Seminar Room, JCMB

Chair: Claudia Lederer-Woods

- 09:00-09:05 Welcome - Alex & Claudia
09:05-09:15 Introduction to BRIDGCE - Raphael Hirschi (Keele University)
09:15-10:05 **OVERVIEW:** Galactic Chemical Evolution - Fiorenzo Vincenzo (University of Hertfordshire)
10:05-10:30 The Chemical Evolution of the Milky Way - Brad Gibson (University of Hull)
10:30-11:00 Coffee Break

Chair: Alex Murphy

- 11:00-11:50 **OVERVIEW:** Chemical abundances in Globular Clusters: BridGCE'ing the Galactic Components - Andreas Koch (Lancaster University)
11:50-12:15 Neutron capture elements in the Galactic bulge - Gabriele Cescutti (INAF, Trieste Observatory)
12:15-13:15 Lunch

Chair: Umberto Battino

- 13:15-13:40 Simulated stellar haloes of Milky Way-type galaxies - Andreea Font (Liverpool John Moores University)
13:40-14:05 Stellar properties of O-type giants and supergiants in 30 Doradus - Oscar Hernan Ramírez-Agudelo (UK Astronomy Technology Centre)
14:05-14:30 Massive stars beyond the Local Group: future prospects - Chris Evans (UK Astronomy Technology Centre)
14:30-14:55 Heavy elements in very metal-poor stars in the Sagittarius dwarf galaxy: An ongoing slow strip tease - Camilla Hansen (Dark Cosmology/MPIA Heidelberg)
14:55-15:25 Coffee Break

Chair: Chris Evans

- 15:25-16:15 **OVERVIEW:** Direct measurements of key astrophysical reactions - Marialuisa Aliotta (University of Edinburgh)
16:15-16:40 Direct measurement of the 64.5 keV resonance strength in the $^{17}\text{O}(\text{p},\text{a})$ reaction at LUNA –Carlo Bruno (University of Edinburgh)
16:40-17:05 Neutron induced reaction measurements for nuclear astrophysics - Claudia Lederer-Woods (University of Edinburgh)
19:00 Conference Dinner, Dine Edinburgh, 10 Cambridge St, Edinburgh EH1 2ED

TUESDAY, 5th September, Higgs Centre Seminar Room, JCMB

Chair: Camilla Hansen

- 09:00-09:50 **OVERVIEW:** Stellar Evolution – Raphael Hirschi (Keele University)
09:50-10:15 Meridional Circulation and Mixing in Massive Stars - Adam Jermyn (University of Cambridge)
10:15-10:40 Evolution and Nucleosynthesis of AGB stars and accreting White Dwarfs – Umberto Battino (Keele University)

10:40-11:10 Coffee Break

Chair: Gabriele Cescutti

- 11:10-11:35 Convective boundary mixing and rotation in low mass AGB stars - Jaqueline den Hartogh (Keele University)
11:35-12:00 The development of new convective boundary mixing prescriptions in stellar evolution-Laura Scott (Keele University)
12:00-12:25 Post-processing of Multidimensional SNIa Models - James Keegans (University of Hull)

12:25-13:25 Lunch

Chair: Alison Laird

- 13:25-14:05 **INVITED:** Sensitivity Studies using Monte Carlo variations- Thomas Rauscher (University of Basel / University of Hertfordshire)
14:05-14:30 Microscopic description of nuclear fission for r-process nucleosynthesis – Matthew Shelley (University of York)
14:30-14:55 pyann: A GUI and Python interface to nuclear reaction networks - Philipp Edelmann (Newcastle University)

14:55-15:30 Coffee Break

Chair: Raphael Hirschi

- 15:30-16:10 **INVITED:** Meteorites and Stellar Dust: Perspectives for Nuclear Astrophysics- Waheed Akram (University of Oxford)
16:10-17:00 Discussions (all)