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 Vincenco (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 Ramirez-Aguilera (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 $^{17}\text{O}(p,a)$ 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** pynn: 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)