



JINA-CEE Frontiers in Nuclear Astrophysics 2016 (Mar 28-31)

| Tue, Mar 29, 16 | | Wed, Mar 30, 16 | | Thu, Mar 31, 16 | |
|-----------------|--|-----------------|--|-----------------|--|
| 8:00-9:00 | Registration & Coffee | 8:00-9:00 | Coffee | 8:00-9:00 | Coffee |
| | Session 1: Chair Chris Wrede | | Session 4: Chair Jason Clark | | Session 7: Chair Remco Zegers |
| 9:00 | Opening Remarks | 9:00 | Brian Grefenstette: Nuclear astrophysics with NuSTAR: Bringing the high energy sky into focus | 9:00 | Hye Young Lee: Neutron-induced reaction studies at Los Alamos Neutron Science center for improving nuclear data in astrophysics |
| 9:15 | Andrew Davis: Nuclear Astrophysics with presolar grains | 9:30 | Xilu Wang: Fermi and Swift as supernova alarms: Alert, localization, and diagnosis of future galactic Type-Ia explosions | 9:30 | Yong-Zhong Qian: Neutrinos and Nucleosynthesis |
| 9:45 | Michael Bennett: ^{31}Cl β -decay and the $^{30}\text{P}(p,\gamma)^{31}\text{S}$ reaction rate in nova nucleosynthesis | 9:45 | Karen Ostdiek: First half-life measurement of ^{60}Fe using the direct decay of $^{60\text{m}}\text{Co}$ and accelerator mass spectrometry | 9:45 | Maxime Brodeur: High precision mass measurements for nuclear astrophysics |
| 10:00 | Ian Roederer: New observational constraints from ancient stars on the origins of heavy elements | 10:00 | Olga Liliana Caballero: Neutrino emission from neutron star mergers with microscopical equations of state | 10:00 | Robert Andrassy: 3D hydrodynamic simulations of O-shell convection |
| 10:15 | Iris Dillmann: The nuclear astrophysics program at TRIUMF | 10:15 | Daniel Robertson: The CASPAR facility for underground nuclear astrophysics | 10:15 | Michael Deaton: The matter neutrino resonance around black hole accretion disks |
| 10:30-11:00 | Coffee Break | 10:30-11:00 | Coffee Break | 10:30-11:00 | Coffee Break |
| | Session 2: Chair Brian Fields | | Session 5: Chair Carla Fröhlich | | Session 8 : |
| 11:00 | Terese Hansen: Recent observational results for metal poor stars | 11:00 | Almudena Arcones: Nucleosynthesis in supernovae and neutron star mergers | 11:00 | 5min summaries from approx. 10 unconference breakout groups |
| 11:30 | Rana Ezzeddine: Iron abundance analysis of ultra-metal poor stars using non-LTE | 11:30 | Jorge Pereira: Theoretical uncertainty of (α,n) reaction rates relevant for the nucleosynthesis of heavy elements in neutrino-drive winds | 11:50 | Closing remarks |
| 11:45 | Falk Herwig: Observations, simulations, and nuclear physics of the i-process | 11:45 | Anna Frebel: A single prolific r-process event preserved in an ultra-faint dwarf galaxy | | End of Conference |
| 12:00 | Paul Woodward: 3D simulation of hydrogen ingestion in a very low metallicity AGB star, a potential site for i-process nucleosynthesis | 12:00 | Grant Matthews: In search of the site for r-process nucleosynthesis | | |
| 12:15 | Brian O'Shea: Modelling galactic chemical evolution in a cosmological context | 12:15 | Farheen Naqvi: First total-absorption spectroscopy measurement on the neutron-rich Cu isotopes | | |
| 12:30-14:00 | Lunch buffet | 12:30-14:00 | Lunch buffet | | |
| | Session 3: Chair Ed Brown | | Session 6: Chair Pavel Denisenkov | | |
| 14:00 | Sebastian George: Nuclear astrophysics with rings and traps | 14:00 | Alexander Heger: Recent advances in X-ray burst modelling | | |
| 14:30 | Alex Deibel: New Urca cooling pairs in the neutron star ocean and their effect on superbursts | 14:30 | Yang Sun: Shell-model study of isospin-symmetry breaking and the impact in the rp-process | | |
| 14:45 | Alessandro Roggero: Thermal conductivity in the neutron star crust | 14:45 | Melina Avila: Measuring key α -induced reaction rates with the MUSIC detector | | |
| 15:00 | Chris Sullivan: The sensitivity of core-collapse supernovae to nuclear electron capture | 15:00-18:00 | Unconference (coffee) | | |
| 15:15 | Caroline Robin: Nuclear Response theory for spin-isospin excitations in a relativistic framework | | | | |
| 15:30 | Evan Scannapieco: Modelling the pollution of pristine gas in the early universe | | | | |
| 15:45 | Tsung-Han Yeh: Primordial deuterium predictions cry out for an updated $d(p,\gamma)^3\text{He}$ rate | | | | |
| 16:00-16:30 | Coffee Break | | | | |
| 16:30-18:00 | Poster Session (beer/wine & hors d'oeuvre) | | | | |
| 18:00 | End of Day 1 | 18:00-20:00 | Conference banquet (beer/wine) | | |