



2017 JINA-CEE Frontiers in Nuclear Astrophysics: Main Conference Session

| | Tuesday Feb 7 | | Wednesday February 8 | | Thursday February 9 |
|----------|--|----------|---|----------|--|
| 8:00 AM | Registration | 8:00 AM | Registration | 8:00 AM | Registration |
| | Session 1 (Chair: Luke Roberts) | | Session 5 (Chair: Dany Page) | | Session 9 (Chair: Ani Aprahamian) |
| 9:00 AM | Opening remarks | 9:00 AM | Ingo Tews: "Equation of state constraints from chiral effective field theory interactions" | 9:00 AM | Kim Venn: "Metal-poor stars in the CFHT Pristine Survey" |
| 9:15 AM | Laura Nuttall: "Observing Gravitational Waves with Advanced LIGO and Hunting for Counterparts" | 9:30 AM | William Newton: "Quantum simulations of nuclear pasta" | 9:30 AM | Mohammadtaher Safarzadeh: "Constraining the energy and statistics of neutron star mergers by simulating R-process element production in ultra faint dwarf galaxies" |
| 9:45 AM | Jonas Lippuner: "r-Process nucleosynthesis in neutron star merger disk outflows" | 9:45 AM | Hesham Mansour: "A study of the three-body force effect on the EOS properties of asymmetric nuclear matter" | 9:45 AM | Samuel Giuliani: "Impact of fission in the r-process nucleosynthesis: an energy density functional study" |
| 10:00 AM | Oleg Korobkin: "Electromagnetic transients from neutron star mergers: detailed calculation of gamma-ray source" | 10:00 AM | Andre da Silva Schneider: "A New Open-Source Nuclear Equation of State Framework based on the Liquid-Drop Model with Skyrme Interactions" | 10:00 AM | Anna Simon: "HECTOR: High Efficiency TOtal absorption spectrometer" |
| 10:15 AM | Yonglin Zhu: "Matter-neutrino resonance transitions above a neutron star merger remnant" | 10:15 AM | Giordano Cerizza: "Constraining the symmetry energy at high density with the first SpiRIT experiments" | 10:15 AM | Ian Roederer: "An update on the r-process one year after the discovery of Reticulum II" |
| 10:30 AM | Coffee Break | 10:30 AM | Coffee Break | 10:30 AM | Coffee Break |
| | Session 2 (Chair: Adam Jacobs) | | Session 6 (Chair: Dan Bardayan) | | Session 10 (Chair: Sean Couch) |
| 11:00 AM | Simin Mahmoodifar: "X-ray Burst Oscillations and NICER" | 11:00 AM | Michael Wiescher: "Astrophysics with Underground Accelerators" | 11:00 AM | Jinmi Yoon: "Best and Furthest: Searching for Extremely- and Ultra Metal Poor Stars in the Outermost Halo" |
| 11:30 AM | Chris Wrede: "Thermonuclear runaways investigated using beta decay experiments" | 11:30 AM | Terri Poxon-Pearson: "Study of the $^{30}\text{P}(d,n)^{31}\text{S}$ Reaction to Probe Astrophysical Resonance Strengths" | 11:15 AM | Tuguldur Sukhbold: "Survey of CCSNe based on progenitor dependent explosions" |
| 11:45 AM | Zac Johnston: "The first simulations of X-ray bursts during a time-variable accretion event" | 11:45 AM | James Deboer: "The $^{12}\text{C}(\alpha,\gamma)^{16}\text{O}$ reaction" | 11:30 AM | Unconference reports |
| 12:00 PM | Lunch Break | 12:00 PM | Lunch Break | 12:00 PM | Closing remarks |
| | Session 3 (Chair: Ed Brown) | | Session 7 (Chair: Brian O'Shea) | | |
| 1:30 PM | Jeffrey Blackmon: "Measurements with In-Flight Radioactive Ion Beams and the Ignition of Type I X-ray Bursts" | 1:30 PM | John Wise: "Chemical Enrichment from the First Stars and Galaxies" | | |
| 2:00 PM | Duncan Galloway: "Reconciling observations and models of thermonuclear bursts with nuclear experiments" | 2:00 PM | Ondrea Clarkson: "A Novel Pre-supernova Pop III Stellar Evolution and Nucleosynthesis Scenario for the most Fe-deficient star (Keller star)" | | |
| 2:15 PM | Matt Caplan: "Simulating the Phase Separated rp-ash" | 2:15 PM | Pavel Denisenkov: "The physics and GCE yields of i-process nucleosynthesis in He-shell flashes on white dwarfs" | | |
| 2:30 PM | Christian Ritter: "Convective-reactive nucleosynthesis in convective O-C shell mergers" | 2:30 PM | Artemis Spyrou: "Neutron-gamma competition and possible impact on the r-process" | | |
| 2:45 PM | Amber Lauer: "Study of ^{36}Ca resonances in the $^{34}\text{Ar}(\alpha,p)^{37}\text{K}$ reaction via proton scattering in ^{37}K " | 2:45 PM | Benoit Cote: "Probing the Astrophysical Sites of Light and Heavy Elements" | | |
| 3:00 PM | Coffee Break | 3:00 PM | Coffee Break | | |
| | Session 4 (Chair: Micha Kilburn) | | Session 8 (Chair: Jason Clark) | | |
| 3:30 PM | Shirley Li: "Observing supernova neutrinos to late times" | 3:30 PM | Agatino Masumarra: "PANDORA a Facility for In-Plasma Nuclear Astrophysics" | | |
| 3:45 PM | Devin Silvia: "Moving toward more inclusive science" | 3:45 PM | Rodney Orford: "Phase-imaging mass measurements with the Canadian Penning trap mass spectrometer" | | |
| 4:15 PM | Poster advertisements | 4:00 PM | Athanasios Psaltis: "Studying the $^7\text{Be}(\alpha,\gamma)^{11}\text{C}$ reaction rate with DRAGON and the nuclear physics uncertainties of the vp-process" | | |
| 4:30 PM | Welcome Reception & Poster session | 4:15 PM | Xiadong Tang: "The beta-decay rate of ^{59}Fe in shell burning environment" | | |
| | | 4:30 PM | Alfredo Estrade: "R-process experiments at the Radioactive Ion Beam Factory" | | |
| 4:30 PM | | 4:45 PM | Unconference | | |
| 6:00 PM | Dinner Break | | | | |
| 8:30 PM | Micha Kilburn: Art2Science Outreach Workshop | | | | |