

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

Student & Post-Doc Day: Mon, Mar 28, 16	
9:00	Opening remarks
	Session 1: Experimental Equipment and Techniques
9:15	<b>Rashi Talwar</b> : Bubble Chamber : A new approach towards understanding the $^{12}$ C $(\alpha,\gamma)^{16}$ O reaction
9:30	James deBoer: Characterizing neutron background reactions for CASPAR
9:45	Alex Dombos: Total absorption spectroscopy of neutron-rich nuclei around the A=100 mass region
10:00	<b>Tony Ahn</b> : Development of a neutron long-counter system for astrophysical $(\alpha,n)$ reaction studies
10:15	Justin Browne: Commissioning of the JENSA Gas Jet Target with <sup>4</sup> He(p,p) <sup>4</sup> He
10:30	Brad Schultz: Construction of a multi-reflection time-of-flight mass spectrometer at the University of Notre Dame
10:45-11:00	Break
	Session 2: Compact Objects 1
11:00	Oleg Korobkin: Evolution of the gamma- and X-ray radioactive source in macronovae/kilonovae from compact mergers
11:15	Ermal Rrapaj: Microscopically constrained mean field models from chiral nuclear thermodynamics
11:30	Max Katz: Mergers and Collisions of White Dwarfs on Adaptive Meshes
11:45-13:00	Lunch
	Session 3: Compact Objects 2
13:00	Farrooh Fattoyev: Exploring the Role of Nuclear Symmetry Energy in Large Scale Quantum Simulations of Nuclear Pasta
13:15	Matthew Caplan: Phase Diagrams, Thermal Conductivities, and Electrical Conductivities of Nuclear Pasta
13:30	Mackenzie Barton-Rowledge: An Exotic Battery: Neutron Star Heating from New Physics Annihilations
13:45	Stephan Stetina: Superfluid Hydrodynamics from Field Theory
14:00-14:30	Break
	Session 4: Nuclear Reactions & Structure
14:30	Stephanie Lyons: Low-Energy <sup>20</sup> Ne(p,γ) <sup>21</sup> Na Cross-section Study with the 5U-4 St. Ana Accelerator
14:45	<b>Cathleen Fry</b> : Constraining resonance strengths for $^{30}P(p,\gamma)^{31}S$ with lifetime measurements
15:00	Stylianos Nikas: Impact of Parametrization on (n, γ) calculations using the statistical model of Hauser-Feshbach
15:15	Bryce Frentz: Alpha Cluster States in <sup>16</sup> O
15:30	<b>Gwenaelle Gilardy</b> : <sup>7</sup> Li : a cosmological problem from a nuclear physics perspective
	Nishanth Sasankan: BBN and CMB Constraints on Dark Radiation Revisited
15:45	
15:45 16:00-16:30	Break
	Break Carreer Panel