

SUNDAY, MARCH 22 — RECEPTION, HENRY CENTER FOUR SEASONS LOUNGE, 6-9PM

MONDAY, MARCH 23 — PLENARY SESSION, HENRY CENTER B106/107 — INVITED TALKS: 25 + 5 MIN, CONTRIBUTED TALKS: 12 + 3 MIN

8:00 - 9:00	Registration Open, B106/107		
Morning Session — Chair: Dan Bardayan (Notre Dame)			
9:00 - 9:15	Hendrik Schatz	NSCL, Michigan State University	Opening Remarks
9:15 - 9:45	<b>Kate Jones</b>	<b>University of Tennessee, Knoxville</b>	<b>Direct Reactions as Indirect Nuclear Astrophysics Measurements</b>
9:45 - 10:00	Zach Meisel	Michigan State University	Results from the NSCL TOF Mass Measurement of Neutron-rich Isotopes of Argon through Iron
10:00 - 10:15	Timothy Beers	University of Notre Dame	Searches for Carbon-Enhanced Metal-Poor Stars
10:15 - 10:30	Peter Moller	Los Alamos National Laboratory	Results and Future Plans on Fission Barrier and Fission-Fragment Yield Modeling
10:30 - 11:00	Coffee Break		
11:00 - 11:15	Greg Christian	TRIUMF	Determining the Endpoint of Nova Nucleosynthesis: Direct Measurement of $38\text{K}(p,\gamma)39\text{Ca}$ at DRAGON
11:15 - 11:30	Jianping Lai	Louisiana State University	Studying $20\text{Ne}(\alpha,p)23\text{Na}$ directly with HELIOS
11:30 - 11:45	Laura Chomiuk	Michigan State University	Nova Theory vs. Nova Observation: How are we doing?
11:45 - 12:00	Rashi Talwar	University of Notre Dame	Stellar Neutron Sources for the s-Process in Massive Stars
12:00 - 13:30	Lunch, Henry Center Atrium		
Afternoon Session — Chair: Ed Cackett (Wayne State University)			
13:30 - 14:00	<b>Sebastian Guillot</b>	<b>Pontificia Universidad Católica de Chile</b>	<b>Observations of Neutron Stars: Linking Astrophysics to Nuclear Physics</b>
14:00 - 14:15	Dany Page	Universidad Nacional Autónoma de México	Probing Neutron Star Crust and Core in Accreting Binaries
14:15 - 14:30	Farrooh Fattoyev	CEEM, Indiana University	Heat Capacity of Neutron Star Matter
14:30 - 15:00	Coffee Break		
15:00 - 15:15	Duncan Galloway	Monash Centre for Astrophysics	Model-observation comparisons for thermonuclear bursts
15:15 - 15:30	Brian Muccioli	Ohio University	Thermal Properties of Hot and Dense Matter
15:30 - 15:45	Richard Cyburt	NSCL, Michigan State University	Reaction Sensitivities of X-ray Bursts
15:45 - 16:00	Charles Horowitz	Indiana University	Large scale simulations of nuclear pasta
16:00 - 16:15	Irina Sagert	CEEM, Indiana University	Quantum Density-Functional calculations of Nuclear Pasta with MADNESS
16:15 - 16:30	Matthew Caplan	Indiana University	Simulations and Properties of Nuclear Pasta
16:30 - 18:00	Poster Session, Henry Center Atrium		
18:00 - 20:00	Dinner, Henry Center Atrium		
20:00 - 21:00	Professional Development for Students and Postdocs, A138 <i>Micha Kilburn, JINA-CEE Director of Outreach and Education</i>	JINA Executive Committee Meeting, Room B113-121	

Breakout Space Available  
Rooms: A138-141, B113-121, B122-124

TUESDAY, MARCH 24 — PLENARY SESSION, HENRY CENTER B106/107 — INVITED TALKS: 25 + 5 MIN, CONTRIBUTED TALKS: 12 + 3 MIN

8:00 - 9:00	Registration Open, B106/107			Breakout Space Available Rooms: A138-141, B113-121, B122-124
Morning Session — Chair: Brian O'Shea (Michigan State University)				
9:00 - 9:30	<b>Rebecca Surman</b>	<b>University of Notre Dame</b>	<b>Open questions in heavy element synthesis</b>	
9:30 - 9:45	Graeme Morgan	University of Manitoba	Mass Measurements of Nuclides Approaching the R-Process Path with the Canadian Penning Trap Mass Spectrometer at the CARIBU Facility	
9:45 - 10:00	Benoit Cote	University of Victoria	Uncertainties in Chemical Enrichment Models	
10:00 - 10:15	Michael Florian	University of Chicago	Modeling Chemical Evolution in Low Mass Galaxies: Implications for Nuclear Astrophysics Research	
10:15 - 10:30	Daniel Van Rossum	University of Chicago	Determining the Explosion Mechanism in Type Ia Supernovae Using Nucleosynthetic Yields and Galactic Chemical Evolution	
10:30 - 11:00	Coffee Break			
11:00 - 11:15	Zhen Yuan	University of Minnesota	Chemical Evolution Model of Fornax Spheroidal Dwarf Galaxy	
11:15 - 11:30	Paul Woodward	University of Minnesota, LCSE	Simulations of convective boundary mixing and sites for the i-process in AGB and massive stars	
11:30 - 11:45	Christian Ritter	University of Victoria	The impact of convective boundary mixing in AGB stars on nucleosynthesis and on simple stellar populations	
11:45 - 12:00	Pavel Denisenkov	University of Victoria	On a possibility of i-process on rapidly accreting white dwarfs	
12:00 - 13:30	Lunch, Henry Center Atrium			
Afternoon Session — Chair: Frank Timmes (Arizona State University)				Breakout Space Available Rooms: A138-141, B113-121, B122-124
13:30 - 14:00	<b>Ian Roederer</b>	<b>University of Michigan</b>	<b>New Constraints on the r-process Provided by New Observations of Rare Elements in Metal-Poor Stars</b>	
14:00 - 14:15	Mallory Smith	University of Notre Dame	Lifetime Measurements and Excited States in $^{109}\text{Ru}$ populated via $\beta$ -decay	
14:15 - 14:30	Jonas Lippuner	California Institute of Technology	Parameter study of r-process lanthanide production and heating rates in kilonovae	
16:30 - 18:00	Coffee Break			
15:00 - 17:30	Unconference			
18:00 - 20:00	Conference Banquet, Henry Center Atrium Keynote - <i>Ensuring High-Performance Research with a Formal Mentoring Plan</i> - <b>Judi Brown Clarke PhD</b>			

WEDNESDAY, MARCH 25 — PLENARY SESSION, HENRY CENTER B106/107 — INVITED TALKS: 25 + 5 MIN, CONTRIBUTED TALKS: 12 + 3 MIN

Morning Session — Chair: Jason Clark (Argonne National Laboratory)				Breakout Space Available
9:00 - 9:30	<b>Roland Diehl</b>	<b>MPE, Garching</b>	<b>Insights from Cosmic <math>\gamma</math>-Ray Line Observations</b>	Rooms: A138-141, B113-121, B122-124
9:30 - 9:45	Dominik Elsaesser	Universitaet Wuerzburg, NAVI	Nuclear de-excitation lines as potential tracers of cosmic ray acceleration	
9:45 - 10:00	Xilu Wang	University of Illinois, Urbana-Champaign	GBM Alert for A Galactic Type Ia Supernova	
10:00 - 10:15	MacKenzie Warren	University of Notre Dame	Dark matter and core-collapse supernovae: a case for sterile neutrinos	
10:15 - 10:30	Sherwood Richers	California Institute of Technology	Monte Carlo Neutrino Transport in Post-Merger Disks	
10:30 - 11:00	Coffee Break			
11:00 - 11:15	Gabriel Martinez-Pinedo	TU Darmstadt	Neutrino Nucleosynthesis of radioactive nuclei in supernovae	
11:15 - 11:55	Unconference summaries			
11:55 - 12:00	Hendrik Schatz	NSCL, Michigan State University	Closing Remarks	

## POSTER SESSION, MONDAY, MARCH 23, 4:30PM - 6:00PM

- *Origin of Short-lived Isotopes in the Early Solar System*, **Projjwal Banerjee**, University of Minnesota
- *Classical Nova Nucleosynthesis: Beta Decay Studies of  $^{30}\text{P}(p,\gamma)^{31}\text{S}$* , **Michael Bennett**, Michigan State University / NSCL
- *The effect of the  $^{23}\text{Na}(\alpha,p)^{26}\text{Mg}$  reaction in the synthesis of  $^{26}\text{Al}$  in massive stars*, **Ondrea Clarkson**, University of Illinois at Chicago
- *Enhanced Non-resonant Triple-alpha in Helium Novae*, **Ryan Connolly**, Student at Michigan State University
- *AZURE2: A general purpose JINA R-matrix code*, **James deBoer**, University of Notre Dame
- *Experimental investigation of  $^{16}\text{O} + ^{12}\text{C}$  below the Coulomb barrier*, **Xiao Fang**, University of Notre Dame
- *Carbon Burning in SAGB Stars*, **Carl Fields**, Arizona State University
- *Experiments in preparation for  $\nu p$ -process reaction studies*, **Panagiotis Gastis**, Central Michigan University
- *Studying the breakout of the CNO hydrogen-burning cycles via the  $^{15}\text{O}(\alpha,\gamma)^{19}\text{Ne}(p,\gamma)^{20}\text{Na}$  channel*, **Brent Glassman**, Michigan State University / NSCL
- *$\beta$ -decay studies of  $r$ -process nuclei using the Advanced Implantation Detector Array (AIDA)*, **Chris Griffin**, University of Edinburgh
- *$i$ -process and CEMP- $s+r$  stars*, **Falk Herwig**, University of Victoria
- *Constraining EOS using flow observables*, **Jun Hong**, Michigan State University
- *A Look Inside a Star: The Evolved Main-Sequence Channel and Hydrogen Depleted Ultracompact Binaries*, **Mark Kennedy**, University of Notre Dame
- *The Exploration on Nucleosynthesis of Low Mass Supernovae*, **Zhu Li**, University of Minnesota
- *$^{20}\text{Ne}(p,\gamma)^{21}\text{Na}$  and  $^{22}\text{Ne}(p,\gamma)^{23}\text{Na}$  Reaction Study with 5U-4 St. Ana Accelerator*, **Stephanie Lyons**, University of Notre Dame
- *Future Prospects of TwinSol*, **Patrick OMalley**, University of Notre Dame
- *Constraining the  $^{55}\text{Ni}(p,\gamma)^{56}\text{Cu}$   $rp$ -process rate with GRETINA*, **Wei Jia Ong**, Michigan State University / NSCL
- *Status of the Canadian Penning trap mass spectrometer at CARIBU*, **Rodney Orford**, McGill University
- *Methods for analyzing and post-processing 3D stellar hydrodynamics*, **Stou Sandalski**, University of Minnesota / LCSE
- *Simulating the evolution of the pristine gas via turbulent mixing*, **Rick Sarmiento**, Arizona State University
- *$\beta$ -Delayed Neutron Emission Study of Very Neutron-Rich Palladium and Silver Isotopes*, **Karl Smith**, University of Tennessee - Knoxville
- *Searching for Ultra Faint Dwarf Galaxies using CEMP-no Stars*, **Jinmi Yoon**, University of Notre Dame