



Sunday, October 7th, 2012		
8.00am-9.00am		Registration
9.00am-10.00am		Chair: Richard Cyburt
<i>Laurens Keek</i>	<i>Michigan State University</i>	<i>Superburst ignition on neutron stars</i>
Jeremy Stevens	Michigan State University	Sensitivity of Carbon Synthesis in Accreting Neutron Stars to Reaction Rate and Network Parameter Variations
Andrew Steiner	INT/U. Washington	The Accreted Neutron Star Crust and the Nuclear Symmetry Energy
10.00am-10.30am		Coffee break
10.30am-11.30am		Chair: Richard Cyburt
Daniel Coupland	MSU/NSCL	Density dependence of the symmetry energy with emitted neutrons and protons
Simin Mahmoodifar	University of Maryland	Impact of r-mode oscillations on the cooling of neutron stars
Alex Deibel	Michigan State University	Magnetar Oscillations: Observing the Physics of the Magnetized Neutron Star Crust
Ernazar Abdikamalov	California Institute of Technology	Correlated gravitational wave and neutrino signals from general-relativistic rapidly rotating iron core collapse
11.30am-1.00am		Lunch (Snyder/Phillips Dining Hall)
1.00pm-2.00pm		Chair: Xiao-Dong Tang
Athira Menon	University of Victoria	RCB stars - the aftermath of long term post-merger nucleosynthesis of a coalesced double-degenerate (He+CO) system
Marco Pignatari	University of Basel	The slow neutron capture process in intermediate mass stars: warnings and perspectives
Thomas Rauscher	University of Basel	A solution to the gamma-process alpha-potential mystery
Grant Mathews	University of Notre Dame	Frontiers in Big Bang Cosmology and Nucleosynthesis
2.00pm-2.30pm		Coffee break
2.30pm-4.45pm		Chair: Remco Zegers
<i>Manoel Couder</i>	<i>University of Notre Dame</i>	<i>Studying radiative capture with recoil separators</i>
Sunil Devi	Indiana University South Bend	Detection system for the St. George recoil mass separator.
Wenting Lu	University of Notre Dame	Zr-Nb isobar separation for the 93Zr AMS measurement
Andreas Best	University of Notre Dame/LBNL	Neutron background characterization of deep underground laboratories
Zbigniew Chajeccki	NSCL/MSU	Fission barriers for heavy exotic nuclei
Karen Ostdiek	University of Notre Dame	Complications in the measurement of the half life of Iron-60
Fang Xiao	University of Notre Dame	Experimental investigations of stellar 12C+12C fusion toward extremely low energies by direct and indirect methods
Yunju Li	University of Notre Dame	How to measure the fusion cross sections for 12C + 12C reaction at astrophysical energies?
5.00pm-7.00pm		Poster Session

Monday, October 8th, 2012

9.00am-10.00am

Chair: Thomas Rauscher

Anne Sallaska

UNC/TUNL

STARLIB: A Next-Generation Reaction-Rate Library for Nuclear Astrophysics

Pavel Denisenkov

University of Victoria

MESA/NuGrid Models of Nova Outbursts and Nucleosynthesis

Carolyn Peruta

Michigan State University

Limitations in Modeling Galactic Chemical Evolution Due to Uncertainties in Stellar Evolution Calculations

10.00am-10.30am

Coffee break

10.30am-11.30am

Chair: Thomas Rauscher

Richard deBoer

University of Notre Dame

Comprehensive Analysis of 16O Compound Nucleus Reactions

Matt Bowers

University of Notre Dame

Implications of the $^{33}\text{S}(\alpha,p)^{36}\text{Cl}$ reaction on Early Solar system production

Yoav Kashiv

University of Notre Dame

A Shorter Measured ^{146}Sm Half-Life and Implications for ^{146}Sm - ^{142}Nd Chronology in the Solar System

Ethan Uberseder

University of Notre Dame

First Experimental Constraint on the $^{59}\text{Fe}(n,\gamma)^{60}\text{Fe}$ Reaction via Coulomb Dissociation

11.30am-1.00am

Lunch (Akers Hall)

1.00pm-3.00pm

Chair: Georgios Perdikakis

Catherine Deibel

Louisiana State University

When Stars Go BOOM: Explosive Nucleosynthesis

Chris Wrede

MSU/NSCL

Nova nucleosynthesis via beta delayed gamma decay at NSCL

Sergio Almaraz-Calderon

Argonne National Laboratory

The level structure of ^{30}S and its astrophysical implications

Christoph Langer

NSCL

Experimental investigations of important bottleneck reactions in the rp process

Alexander Long

University of Notre Dame

Measurements of Resonance States in ^{30}S and ^{38}Ca Nuclei using the (p,t) Reaction, and Reaction Rates in the αp -Process

Justyna Marganiec

EMMI/GSI

Coulomb breakup of ^{17}Ne and the $^{15}\text{O}(2p,\gamma)^{17}\text{Ne}$ cross section.

Qian Li

University of Notre Dame

The Cross Section of $^{14}\text{N}(p,\gamma)^{15}\text{O}$

3.00pm-3.30pm

Coffee break

3.30pm-5.00pm

Chair: Chris Wrede

Stephen Quinn

Michigan State University

Cross section measurements of (p,γ) reactions using the SuN detector

Matthew Mumpower

University of Notre Dame

The Rare Earth Peak: An Overlooked r-Process Diagnostic

Jorge Pereira

NSCL

Inferring nuclear structure trends of r-process nuclei from beta-decay measurements

David Chamulak

Nucleosynthesis from Asymmetrical Explosions in Type Ia Supernovae

Yeunjin Kim

University of Chicago

Detonations in Helium Layers of White Dwarf

Rashi Talwar

University of Notre Dame

Stellar neutron sources and s-Process in Massive Stars