

PROGRAM

3rd International Symposium on Nuclear Symmetry Energy

Lecture Hall, NSCL/FRIB, East Lansing, Michigan
July 22-26, 2013

The allocated time in parenthesis includes 5 minutes for discussion.

Sat, 20-Jul

— *Canoe Excursion (9:30-)* —
Meeting at the NSCL main entrance

Mon, 22-Jul

— *Registration by Rms. 1221 A&B (8:00-)* —

Chair: Bao-An Li

8:50 **Betty Tsang** (05 min)

Welcome

8:55 **Chuck Horowitz & Alex Brown** (15 min)

Short introduction to ICNT program

9:10 **Zach Kohley** (35 min)

RIB induced reactions at the NSCL and FRIB

9:45 **Hermann Wolter** (35 min)

Light Fragment Production in Heavy Ion Collisions and the Symmetry Energy

— *Coffee Break (10:20-)* —

10:50 **Yvonne Leifels** (35 min)

Relativistic heavy ion collisions at SIS energies - Constraining the symmetry energy at supra-normal densities

11:25 **Massimo Papa** (35 min)

Asymmetric nuclear matter calculations and many-body correlations in Semiclassical Molecular Dynamics

— *Lunch Break (12:00-)* —

Chair: Joe Natowitz

14:00 **Takashi Nakamura** (35 min)

Symmetry-energy Studies Using the SAMURAI facility at RIBF

14:35 **Ivano Lombardo** (35 min)

Isospin effects in medium mass nuclear systems at 25 MeV/nucleon

- 15:10 **Akira Ohnishi** (25 min)
Explicit three-body couplings in RMF and its effects on symmetry energy
— *Coffee Break (15:35-)* —
- 16:05 **Jerzy Lukasik** (35 min)
Current experimental status on density dependence of Symmetry energy at high energy
- 16:40 **Jirina Stone** (30 min)
Quark-Meson-Coupling model and nuclear matter constraints
- 17:05 **Dan Cozma** (25 min)
Towards a model-independent constraint of the high-density dependence of the symmetry energy
— *Reception (18:30-)* —
Kellogg Center, Rooms Red Cedar A & B

Tue, 23-Jul

Chair: Bob Rutledge

- 8:50 **Jim Lattimer** (35 min)
Symmetry Energy and Neutron Star Structure
- 9:25 **William Newton** (30 min)
Constraining the High-Density Behavior of Nuclear Symmetry Energy with the Tidal Polarizability of Neutron Stars
— *Coffee Break (9:55-)* —
- 10:25 **Andrew Steiner** (35 min)
Recent Neutron Star Observations and the Nature of Matter Near and Above Saturation
- 11:00 **Hajime Sotani** (30 min)
Possible constraints on density dependence of symmetry energy from oscillations in Magnetar Giant Flares
- 11:30 **Stefano Gandolfi** (35 min)
Advances in the nuclear equation of state
— *Symposium photo (12:05-)* —
Garden space adjacent to NSCL
— *Lunch Break/Poster Session (12:20-)* —

Chair: Malgorzata Pfabe

- 14:30 **Joe Natowitz** (35 min)
Clusterization and the Symmetry Energy in Low Density Nuclear Matter

- 15:05 **Akira Ono** (25 min)
Handling of clusters in transport models
- 15:30 **Luke Roberts** (30 min)
Charged Current Interactions in Proto-Neutron Star Atmospheres and the Symmetry Energy
- *Coffee Break (16:00-)* —
- 16:30 **Zbigniew Chajecki** (30 min)
Using heavy ion collisions to determine asymmetry dependence of nuclear energy and of effective mass
- 17:00 **Justin Mabiata** (30 min)
Critical behavior of nuclear systems from quantum fluctuations
- 17:30 **Udo Schroeder** (30 min)
Symmetry energy: Mixed messages from nuclear fragmentation

Wed, 24-Jul

Chair: Vladimir Zelevinsky

- 8:50 **Umesh Garg** (35 min)
The Asymmetry Term in Nuclear Incompressibility from the Giant Monopole Resonances
- 9:25 **Atsushi Tamii** (35 min)
Electric Dipole Response of 208Pb and Constraints on the Symmetry Energy
- *Coffee Break (10:00-)* —
- 10:30 **Hiroyuki Sagawa** (35 min)
Giant Resonances, Mass Model and EoS
- 11:05 **Angela Bracco** (30 min)
On the nature of the Pygmy dipole resonance via inelastic scattering of 17O
- 11:35 **Xavier Roca-Maza** (30 min)
The Nuclear Symmetry Energy: Constraints from Giant Resonances
- *Free time* —
Sign-up sheets for suggested activities will be posted

Thu, 25-Jul

Chair: Alex Brown

- 8:50 **Alexander Gezerlis** (35 min)
Quantum Monte Carlo with Chiral Effective Field Theory Interactions
- 9:25 **Isaac Vidana** (30 min)
Effects of the tensor force and the rearrangement term on the nuclear symmetry energy

— *Coffee Break (9:55-)* —

10:25 **Krishna Kumar** (35 min)

Measurements of Parity-Violating Electron Scattering Asymmetries off Neutron-Rich Nuclei at Jefferson Laboratory

11:00 **Farrukh Fattoyev** (30 min)

Correlating the density dependence of the symmetry energy to neutron skins and neutron-star properties

11:30 **Francesca Sammarruca** (30 min)

Recent theoretical advances: comparing different microscopic approaches to neutron-rich matter

— *Lunch Break/Poster Session (12:00-)* —

Chair: Sherry Yennello

14:20 **Mannque Rho** (35 min)

The origin of the proton mass and its implication on the EoS of dense matter

14:55 **Zhigang Xiao** (30 min)

Experimental effort to study Symmetry Energy with Lanzhou's Cooler Storage Ring

— *Coffee Break (15:25-)* —

15:55 **Lie-Wen Chen** (35 min)

Determination of the symmetry energy around $\rho = 0.11 \text{ fm}^{-3}$

16:30 **Pawel Danielewicz** (25 min)

IAS and skin constraints on density dependence of symmetry energy

16:55 **Ian Bentley** (25 min)

A Simple Pairing Approach on the Linear Symmetry Energy Near $N=Z$

— *Banquet (18:00-)* —

Bus departs from the front of NSCL. Companions need to be there too.

Fri, 26-Jul

Chair: Yvonne Leifels

8:50 **Tetsuya Murakami** (35 min)

Pilot Experiments for SAMURAI-TPC project and Current Status of TPC Construction

9:25 **Rebecca Shane** (25 min)

Construction of Time Projection Chambers to probe the symmetry energy at high density

— *Coffee Break (9:50-)* —

10:20 **Alan McIntosh** (35 min)

Asymmetry Dependence of the Nuclear Caloric Curve

10:55 **Byungsik Hong** (30 min)

Plan for the nuclear symmetry energy measurements at RAON, LAMPS facility

11:25 **Feng-Shou Zhang** (35 min)

Probing nuclear symmetry energy with heavy-ion collisions: overview of different transport models in China

— *Lunch Break (12:00-)* —

Chair: Ed Brown

14:00 **Winner of poster competition** (15 min)

14:15 **Bob Rutledge** (35 min)

Measuring radii of neutron stars in globular clusters

14:50 **Irina Sagert** (25 min)

Soft nuclear equation-of-state from heavy-ion data and implications for compact stars

15:15 **Yeunhwan Lim** (25 min)

Nuclear symmetry energy and Neutron star cooling

— *Coffee Break (15:40-)* —

16:10 **Romualdo deSouza** (35 min)

N/A equilibration in binary nuclear systems

16:45 **Brett Carlson** (25 min)

A theoretical study of the statistical properties of very hot nuclei

17:10 **Bao-An Li** (35 min)

Summary Talk

Sat, 27-Jul

— *Greenfield Village & Ford Museum (9:00-)* —

Meeting at the NSCL main entrance

Poster Presentations

1. **Sebastien Guillot** (Tue&Thu)
Neutron star radii
2. **Kota Masuda** (Tue&Thu)
Quark-hadron crossover and massive hybrid stars
3. **Simon Gannon** (Tue&Thu)
The ASY-EOS experiment at GSI: investigating symmetry energy at supra-saturation densities
- 4.1. **Noritsugu Nakatsuka** (Tue)
Constraining the Symmetry energy at supra saturation density region
- 5.1. **Suwat Tangwancharoen** (Tue)
A Time project chamber to explore the Equation of State of asymmetric matter at high densities
- 6.1. **Heidi Schuldes** (Tue)
Rare Kaon Signals in Au+Au-Collisions measured with HADES
- 4.2. **Rachel Hodges** (Thu)
Measuring Isospin Diffusion with the ZeroDegree Spectrometer
- 5.2. **Jack Winkelbauer** (Thu)
Pairing and Odd-Even Staggering effects in projectile fragmentation
- 6.2. **Jon Barney** (Thu)
Experiments to explore the Symmetry Energy around twice nuclear density
7. **Andre Da Silva Schneider** (Tue&Thu)
Nuclear pasta formation
8. **Juzo Zehihiro** (Tue&Thu)
Proton elastic scattering with RI beams
9. **Jun Hong** (Tue&Thu)
Bulk nuclear properties from pion yields and other data
10. **Will Powell** (Tue&Thu)
The SAMURAI TPC: Constraining The EOS For Isospin Asymmetric Nuclear Matter at Supra-Saturation Densities
11. **Krysten Stiefel** (Tue&Thu)
Modeling Timescale of Equilibration in Dinuclear Systems
12. **Mike Youngs** (Tue&Thu)
Attempts to Constrain the Symmetry Energy Using Light Clusters
13. **Rensheng Wang** (Tue&Thu)
Testing Time Projection Chambers with ^{90}Sr source and cosmic rays

Updated on Mon Jul 22 23:10:14 2013.