

**Program of the ASY-EOS 2012**  
**International Workshop on Nuclear Symmetry Energy and Reaction Mechanisms**  
**(Venue: Provincia Regionale di Siracusa, Via Roma 31, Siracusa)**

**Tuesday 4th September, 2012**

8:30-9:30 **Registration**

09:30-9:45 **Welcome**

**Morning session (9:45-13:05)**

09:45-10:15 Z. Chajecki (NSCL/MSU, East Lansing USA): **Probing the symmetry energy and in-medium cross section via heavy ion collisions** (25'+5')

10:15-10:35 E. De Filippo (INFN-Catania, Italy) : **Probing the symmetry energy at low density using observables from neck fragmentation mechanism** (17'+3')

10:35-10:55 P.C. Wigg (Department of Physics, University of Liverpool, UK) : **Nuclear Symmetry Energy in Ca+Ca Collisions** (17'+3')

10:55-11:15 P. Marini (GANIL, Caen, France) : **Extracting information on the symmetry energy by coupling the VAMOS spectrometer and the 4pi INDRA detector to reconstruct primary fragments** (17'+3')

11:15-11:45 **Coffee break**

11:45-12:05 A.M. Sanchez-Benitez (Department of Applied Physics, University of Huelva, Spain) : **Scattering of  $^8\text{He}$  on  $^{208}\text{Pb}$  at energies around the Coulomb barrier** (17'+3')

12:05-12:25 V. Scuderi (INFN-LNS, Catania, Italy) : **Elastic scattering and reaction mechanisms induced by light halo nuclei at the barrier** (17'+3')

12:25-12:45 P. Diaz Fernandez (Univ. Santiago de Compostela, Spain) : **An investigation into quasifree scattering of neutron-rich carbon and nitrogen nuclei around N=14** (17'+3')

12:45-13:05 M. Young (NSCL/MSU, East Lansing, USA) : **Measurement of emitted tritons and  $^3\text{He}$  from  $^{112,124}\text{Sn} + ^{112,124}\text{Sn}$  collisions at Ebeam=50 and 120 MeV/nucleon** (17'+3')

**Evening session (15:00–18:00)**

15:00-15:30 M.B. Tsang (Michigan State University, East Lansing, USA): **Reaction programs beyond NSCL** (25'+5')

15:30-15:50 S. Hudan (Indiana University, USA) : **Tracking saddle-to-scission dynamics using N/Z in projectile breakup reactions** (17'+3')

15:50-16:10 Z. Basrak (R. Boskovic Institute, Croatia) : **Energy deposition in heavy-ion reactions at intermediate energies** (17'+3')

16:10-16:30 J. Winkelbauer (Michigan State University National Superconducting Cyclotron Laboratory, Lansing, USA) : **Precision Measurement of Isospin Diffusion in Sn+Sn Collisions** (17'+3')

16:30-17:00 **Coffee break**

17:00-17:20 Z. Kohley (National Superconducting Cyclotron Laboratory, East Lansing, USA) : **Sensitivity of collective flow to the density dependence of the symmetry energy** (17'+3')

17:20-17:40 S. Yennello (Texas A&M University College Station, TX, USA) : **Asymmetry Dependence of the Nuclear Caloric Curve** (17'+3')

17:40-18:00 M. Veselsky (Institute of Physics, Slovak Academy of Sciences, Bratislava, Slovakia) : **Symmetry energy and nucleon-nucleon cross sections** (17'+3')

18:00-19.30 **Welcome cocktail**

**Wednesday 05<sup>th</sup> September, 2012**

**Morning session (9:00-12:50)**

09:00-09:30 L. Fabbietti (Excellence Cluster Universe, TUM Munich) : **Kaon properties in cold or dense nuclear matter** (25'+5')

09:30-09:50 P. Pawloski (IFJ-PAN, Krakow, Poland) : **Nuclear cluster formation in the participant zone of heavy-ion relativistic reactions** (17'+3')

09:50-10:10 K. Gill (Goethe-Universitate, Frankfurt, Germany) : **Rare kaon signals from Au+Au collisions at HADES** (17'+3')

10:10-10:30 R. Bhattacharya (University of Calcutta, Kolkata, India) : **Tensor Interaction and its effect on Spin-orbit Splitting of Shell Model States** (17'+3')

10:30-11:00 **Coffee break**

11:00-12:00 J. Aichelin (Subatech, Nantes, France) and H.H. Wolter (University of Munich, Garching, Germany) : **Tandem session on Status of transport models in the search for the symmetry energy (at sub- and supra-saturation densities)** (50'+10')

12:00-12:30 D. Cozma (IFIN-HH, Bucharest, Romania) : **Constraints on the density dependence of the symmetry energy from elliptic flow data** (25'+5')

12:30-12:50 A. Le Fevre (GSI Helmholtzzentrum Darmstadt) : **A new approach to detect hypernuclei and isotopes in the QMD phase space distribution at relativistic energies** (17'+3')

**Evening session (15:00–18:00)**

15:00-15:30 W. Reisdorf (GSI, Darmstadt, Germany) : **Heavy ion collisions (HIC) in the 1A GeV regime: how well can we join up to astrophysics?** (25'+5')

15:30-15.50 I. Vidana (University of Coimbra, Coimbra, Portugal) : **Nuclear symmetry energy and the r-mode instability of neutron stars** (17'+3')

15:50-16:20 T. Nakamura (Tokyo Institute of Technology, Tokyo, Japan) : **Breakup Reactions of Exotic Nuclei at the large acceptance spectrometer SAMURAI at RIBF** (25'+5')

16:20-16:50 **Coffee break**

16:50-17:35 T. Isobe (Riken, Saitama, Japan) and A. McIntosh (Texas A&M University, College Station, USA): **Tandem session on SAMURAI TPC: A Time Projection Chamber to Study the Nuclear Symmetry Energy at RIKEN-RIBF with Rare Isotope Beams (40'+5')**

17:35-18:00 **Open discussion (round table)**

18:00 -20:00 **Visit to Siracusa**

21:00 **Social dinner**

**Thursday 06<sup>th</sup> September, 2012**

**Morning session (9.00-12.30)**

9:00-9:30 A.M. Sanchez-Benitez (Department of Applied Physics, University of Huelva, Spain) : **GASPHYDE particle detectors and the new superconducting linac facility LRF-Huelva (25'+5')**

9:30-9:50 H. Alvarez Pol (Univ. Santiago de Compostela, Spain) : **The CALIFA calorimeter in the versatile R3B setup (17'+3')**

9:50-10:10 J. Lukasik (IFJ-PAN, Krakow, Poland) : **Pulse shape analysis for KRATTA modules (17'+3')**

10:10-10:30 I. Gasparic (TU Darmstadt/IRB Zagreb) : **The NeuLAND detector of the R3B collaboration (17'+3')**

10:30-11:00 **Coffee break**

11:00-11:30 B. Hong (Korea University, Seoul, Republic of Korea) : **New opportunity for nuclear symmetry energy using LAMPS in Korea rare isotope accelerator (25'+5')**

11:30-12:00 N. Herrmann (University of Heidelberg, Germany) : **Compressed baryonic matter: the CBM experiment at SIS100 (25'+5')**

12:00-12:30: G. Batignani (INFN Sezione di Pisa, Italy) : **The SuperB Project (25'+5')**

13:00 -14:30 **Organised Lunch**

14.30-16:00 Visit to [Museo Archeologico Regionale “Paolo Orsi” di Siracusa](#)

16:00-19.00 Auditorium del Museo Archeologico Regionale “Paolo Orsi” di Siracusa: **Eureka! Creatività, genio e mistero in Archimede. Alle radici della scienza moderna**

**Friday 07<sup>th</sup> September, 2012 (Provincia Regionale di Siracusa, Via Roma 31, Siracusa)**

**9:30-13:00 Asy-Eos Collaboration meeting**