

[RIBF-ULIC-miniWS-027] Nuclear symmetry-energy and nucleus-nucleus collision simulation

Tuesday, 2 July 2013 - Thursday, 4 July 2013

Scientific Programme

[DAY1] 2 July 2013 (Tue)

12:00 - 13:00 Registration

Opening Talk

13:00 - 13:45 Tetsuya Murakami, Kyoto Univ. (35min + 10min)

Session 1: Modern Calculations for HIC

Chair: Koji Niita (RIST)

13:45 - 14:30 Toshiki Maruyama, JAEA (35min + 10min)

"TBA on QMD"

14:30 - 14:50 Coffee Break

14:50 - 15:35 Akira Ohnishi, YITP, Kyoto Univ. (35min + 10min)

"Particle production and flow in hadron-string transport model"

15:35 - 16:10 Tomoyuki Maruyama, Nihon Univ. (25min + 10min)

"Density-Dependence of the Symmetry Energy and Iso-Vector Transverse Flow in Heavy-Ion Collisions"

16:10 - 16:20 Coffee Break

Discussion1: Difficulties in Simulations of HIC

Chair: Tsunenori Inakura (Chiba Univ.) 16:20 - 18:00

[DAY2] 3 July 2013 (Wed)

09:00 - 10:00 Registration

10:00 - 10:10 Chikako Ishizuka (Tokyo Univ. of Sci.)

Review of Discussion 1

Session 2: Theoretical Approaches to the Symmetry Energy

Chair: Hitoshi Nakada (Chiba Univ.)

10:10 - 10:45 Hiroyuki Sagawa, Univ. of Aizu/RIKEN (25min + 10min)

"EoS, Giant resonances and Symmetry Energy"

10:45 - 11:20 Yoritaka Iwata, CNS, Univ. of Tokyo (25min + 10min)

"TBA (TDHF)"

11:20 - 11:40 Coffee Break

11:40 - 12:15 Shuichiro Ebata, VBL, Hokkaido Univ. (25min + 10min)

"TBA (TDHF and BCS)"

12:15 - 12:50 Hideyuki Suzuki, Tokyo Univ. of Sci. (25min + 10min)

"TBA on NS and the Symmetry Energy"

12:50 - 14:20 Lunch Break

Session 3: Experimental Approaches to the Symmetry Energy

Chair: Toshiki Maruyama (JAEA)

14:20 - 15:20 Jirina R. Stone, Oxford/Tennessee-Knoxville (45min + 15min)

"High density matter and nuclear models."

15:20 - 15:35 Coffee Break

15:35 - 16:10 Atsushi Tamii, RCNP, Osaka Univ. (25min + 10min)

"Measurement of the Dipole Polarizability of ^{208}Pb and Constraints on the Neutron Skin and Symmetry Energy"

16:10 - 16:45 Tadaaki Isobe, RIKEN (25min + 10min)

"TBA"

16:45 - 17:00 Coffee Break

Discussion 2: How to Constrain the Effective Interactions at high densities?

Chair: Tetsuya Murakami (Kyoto Univ.)

17:00 - 18:00 Conference Dinner 18:00 - 20:00

[DAY3]

09:00 - 10:00 Registration

10:00 - 10:10 Chikako Ishizuka (Tokyo Univ. of Sci.)

Review of Discussion 2

Session 4: Future Computations

Chair: Akira Ohnishi (YITP)

10:10 - 10:55 Akira Ono, Tohoku Univ. (35min + 10min)

"AMD approach to explore nuclear matter properties in heavy-ion collisions"

10:55 - 11:10 Coffee Break

11:10 - 11:55 Hiroshi Toki, RCNP, Osaka Univ. (35min + 10min)

"Strongly tensor correlated Hartree-Fock theory for nuclear matter"

11:55 - 12:10 Tetsuya Katayama, Tokyo Univ. of Sci. (10min + 5min)

"Nuclear matter properties in Dirac-Brueckner-Hartree-Fock approach"

12:10 - 12:45 Kohsuke Tsubakihara, Osaka Electro-Comm Univ. (25min + 10min)

"Symmetry energy in an RMF model with $n=3$ coupling"

12:45 - 14:00 Lunch Break

Discussion 3: Future of the Simulation models: Improve or Create?

Chair: Atsushi Tamii (RCNP) 14:00 - 15:00