Tentative program for
"Recent advances in nuclear structure physics 2018 (RANSP2018)"

Panasonic hall, Yukawa Institute for Theoretical Physics, Kyoto University
29 November – 3 December, 2018

29-Nov

Chair: Itagaki (YITP)

9:50   N. Itagaki (YITP)
Opening

10:00  D. Vretenar (Zagreb)
Nuclear Shapes and Fission Dynamics

11:00  M. Matsuo (Niigata)
Coexistence of Anderson-Bogoliubov Phonon and Cluster Quadrupole Vibration
in Neutron Star Inner Crust

11:30  J. Singh (Hokkaido)
Two-neutron correlations in the neutron-rich nuclei

12:00  M. Yamagami (Aizu)
Large quadrupole collectivity induced by pairing fluctuation in deformed Mg
isotopes close to the neutron drip line

12:30 – 14:00 lunch

Chair: N. Hinohara (Tsukuba)

14:00  A. Afanasjev (Mississippi/YITP)
Clusters, nuclear molecules and toroidal shapes in covariant density functional
theory

14:45  Y. Oganessian (Dubna)
TBA

15:45 - 16:15 (break)

16:15  Y. Suzuki (Niigata)
Challenges in adiabatic hyperspherical approach
16:45 S. Aoyama (Niigata)
Application of the CSM+SVM for the ab-initio calculation
17:15 T. Abe (CNS)
Recent advances in the no-core Monte Carlo shell model for the alpha-clustering nature in light nuclei
17:45 S. Yoshida (Tokyo)
Uncertainty quantification in nuclear shell model
18:15 Reception

30-Nov

Chair: T. Abe (CNS)

10:00 C. Qi (KTH)
Effective neutron-proton interactions in N=Z nuclei
10:45 H. Sagawa (Aizu)
Recent topics of spin-isospin excitations
11:15 Y. Fujita (RCNP)
Gamow-Teller Strengths Concentrated in the High- and Low-energy Regions
11:45 K. Yoshida (Kyoto)
Beta-decay around 78Ni: N=50 magic number and shell structure

12:15 – 13:30 lunch

Chair: K. Yoshida (Kyoto)

13:30 M. La Cognata (INFN-LNS)
Nuclear astrophysics with the Trojan Horse Method
14:15 Y. Chiba (Osaka city)
\(^{12}\text{C}+^{12}\text{C}\) cluster states in sub-barrier region studied with antisymmetrized molecular dynamics
14:45 S. Ohkubo (Kochi)
Collective motion in Bose-Einstein condensates of alpha clusters

15:15 – 15:45 break
15:45 C. Simenel (ANU)  
Quantum equilibration dynamics from deep-inelastic collisions to fusion-fission
16:30 K. Sekizawa (Niigata)  
Recent progress of nuclear dynamics studies with TDDFT
17:00 K. Sato (Osaka city)  
Adiabatic approach to large-amplitude collective motion with the higher-order collective-coordinate operator
17:30 close

1-Dec

Chair: N. Itagaki (YITP)

10:00 A. Bulgac (U. Washington)  
How complicated is the nuclear density functional?
10:45 T. Yokota (Kyoto)  
Ab-initio functional-renormalization-group analysis of one-dimensional nuclear matter inspired by the Hohenberg-Khon theorem
11:15 D. Ohashi (Tokyo)  
How to Improve Functionals in Density Functional Theory?
11:45 T. Naito (Tokyo)  
Coulomb Energy Density Functionals for Nuclear Systems
12:15 free discussion

2-Dec

Chair: T. Abe (CNS)

10:45 Y. Kanada-En'yo (Kyoto)  
Tensor and short-range correlations in $^4$He and $^8$Be
11:15 M. Kohno (RCNP)  
Pauli effects on microscopic optical model potential: rearrangement potential and 3NF contribution
11:45 free discussion
3-Dec

Chair: W. Horiuchi (Hokkaido)

10:00  A. Andreyev (York/JAEA)
       Shape coexistence in gold, mercury and bismuth isotopes studied by in-source
       laser spectroscopy at RILIS-ISOLDE
10:45  J. A. Maruhn (Frankfurt)
       Exotic nuclear configurations in mean-field theory
11:30  S. Mizutori (KUWS)
       Rotating rod-shaped states in N=Z even-even nuclei
12:00  S. Chamoli (Delhi)
       Exploring collectivity in $^{167}$Lu via lifetime measurements
12:30  Closing

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