

YIPQS International Molecule on  
**Coexistence of weak and strong binding in unstable nuclei and its dynamics**

Duration: March 4 – 22, 2013

Place: Yukawa Institute for Theoretical Physics (K102), Kyoto University

Organizes: K. Ogata (RCNP), Y. Kanada-En'yo (Kyoto), and N. Itagaki (YITP)

Program

Monday 4<sup>th</sup> March

10:00- A. M. Moro (Sevilla)

Core excitation effects in reactions induced by halo nuclei

11:00- K. Ogata (RCNP)

Dynamical studies of unbound nuclei/states based on the microscopic reaction theory

14:00- T. Furumoto (Ichinoseki)

Study of microscopic complex potentials for nuclear scattering reaction

Wednesday 6<sup>th</sup> March

10:00- N. Itagaki (YITP)

Exotic cluster structure in light nuclei

Thursday 7<sup>th</sup> March

10:00- T. Matsumoto (Kyushu)

Analyses of breakup, one- and two-neutron removal reactions for three-body projectile

11:00- K. Minomo (Kyushu)

Determination of the deformed and halo structure of neutron-rich Ne and Mg isotopes by a fully microscopic framework

Friday 8<sup>th</sup> March

10:00- T. Nakamura (Tokyo Tech)

Exotic structures probed by Coulomb and nuclear breakup of neutron-rich nuclei

Monday 11<sup>th</sup> March

10:00- K. Hagino (Tohoku)

Structure and reaction of a deformed halo nucleus

11:00- S. Watanabe (Kyushu)

Breakup effects on  ${}^6\text{Li}$  elastic scattering

Tuesday 12<sup>th</sup> March

10:00- F. Kobayashi (Kyoto)

[Dineutron condensate state in  \$^8\text{He}\$](#)

Friday 15<sup>th</sup> March

10:00- Y. Kanada-En'yo (Kyoto)

[Deformation in C isotopes](#)

Monday 18<sup>th</sup> March

10:00- J. Lee (RIKEN Nishina Center)

[Studies of nucleon correlations using direct reactions](#)

11:00- Y. Kikuchi (RCNP)

[Effects of the core excitation due to the tensor and pairing correlations in a Coulomb breakup reaction of  \$^{11}\text{Li}\$](#)

Tuesday 19<sup>th</sup> March

10:00- M. Kimura (Hokkaido)

[Coupling of deformed core and weakly bound neutron](#)

11:00- M. Yahiro (Kyushu)

[A microscopic approach to nuclear reactions](#)

Thursday 21<sup>st</sup> March

10:00- Y. Suzuki (Niigata)

[Structure and reactions in core plus few nucleons approximation](#)

11:00- K. Mizuyama (RCNP)

[Self-consistent description of nuclear scattering based on the continuum particle-vibration coupling](#)