International Molecule-type Workshop on
New correlations in exotic nuclei and advances of theoretical models (co-sponsored by RIKEN iTHES)

Yukawa Institute for Theoretical Physics, Kyoto University
2014 March 10 -23

Seminars: the first one is from 10:00 and the second one is from 11:15 at room K206
March 14 → One day workshop at Panasonic hall

March 10 (Mon)

10:00
Y. Fujita (RCNP)
“Low-energy Super Gamow-Teller State formed by IS residual interaction”

11:15
H. Sagawa (Aizu)
“Role of T=0 and T=1 pairing in spin-isospin excitation”

March 11 (Tue)

10:00
G. Bertsch (INT)
“HFB theory of neutron-proton pairing”

11:15
K. Yoshida (Niigata)
“Low-lying spin-isospin modes of excitation and isoscalar pairing”
March 12 (Wed)

10:00  
D. Lacroix (Orsay)  
“Dynamics with pairing”

11:15  
M. Matsuo (Niigata)  
“Spatial two-neutron correlation in the Hartree-Fock-Bogoliubov description of weakly bound nuclei”

March 13 (Thu)

10:00  
T. Otsuka (Tokyo)  
“Type II Shell Evolution due to the Tensor Force”

11:15  
G. Colo (Milano)  
“A microscopic many-body approach to nuclear structure”

March 14 (Fri) One day workshop day at Panasonic hall (each talk 30 minutes)

9:00  
T. Nakamura (TITEch)  
“Coulomb and nuclear breakup of halo nuclei”

D. Beaumel (RIKEN/Orsay)  
“Investigation of light very neutron rich nuclei using transfer reactions”
K. Mizuyama (RCNP)
“Self-consistent description of the nuclear scattering based on the continuum particle-vibration coupling method”

-------------------- 10:30 – 11:00  Coffee Break -----------------

11:00

Y. Kondo (TTTech)
“Experimental study of $^{26}$O”

T. Oishi (Tohoku)
“Effect of Diproton Correlation on Two-proton Emission”

F. Kobayashi (Kyoto)
“Competition between dineutron formation and breaking in light neutron-rich nuclei”

-------------------- 12:30 – 13:30  Lunch Time -----------------

13:30

Y. Tanimura (Tohoku)
“Covariant density functional calculations in the 3-dimensional coordinate space representation”

K. Sato (RIKEN)
“Mean-field calculation based on the proton-neutron mixed energy density functional”

M. Grasso (Orsay)
“Effective interactions for beyond-mean-field models”

H. Liang (RIKEN)
“Finite amplitude method in covariant density functional theory”

-------------------- 15:30 – 16:00  Coffee Break -----------------
16:00

E. Hiyama (RIKEN)
"4He trimer and tetramer systems using realistic 4He potential"

S. Ohkubo (Kochi)
"Quantum field theory of alpha-particle condensation"

N. Itagaki (YITP)
"Exotic states in light neutron-rich nuclei"

March 17 (Mon)

10:00
J. Terasaki (Tsukuba)
"Effect of QRPA correlations to nuclear matrix element of neutrinoless double-beta decay through overlap matrix"

11:15 at room K202
J. Yao (Tohoku)
"A relativistic energy density functional calculation of the nuclear matrix elements in neutrinoless double beta decay"

March 18 (Tue)

10:00
Y. Takahashi (Kyoto)
"Quantum simulator of strongly interacting quantum many-body systems using atoms"

11:15
Y. Tanimura (Tohoku) (30 min)
“Three-body model calculations for $N=Z$ odd-odd nuclei with $T=0$ and $T=1$ pairing correlation

11:45
K. Hagino (Tohoku) (30 min)
“Two-neutron decay of $^{26}$O”

March 19 (Wed)

10:00
J. Lee (RIKEN)
“Systematic Studies of Neutron-Proton Pairing using Transfer Reactions”

11:15
C. Bai (Sichuan)
“Supper-allowed GT states in $N\sim Z$ nuclei as a constraint for the $T=0$ pairing”

March 20 (Thu)

10:00
K. Yabana (Tsukuba)
“Imaginary-time theory for triple-alpha reaction rate”

11:15
I. Danshita (YITP)
“Binary Bose mixtures in optical lattices”