International Molecule
"Nuclear forces and neutron-rich matter"
March 1-31, 2012

Seminar Room K102,
Yukawa Institute for Theoretical Physics, Kyoto University
(During 13-15 March, at Y306)

Scientific Program

March 6

10:00  K. Sekizawa (Tsukuba)
“Time-Dependent Hartree-Fock Theory for Multi-Nucleon Transfer Reaction”

March 7

10:00  K. Iida (Kochi)
“Equation of state of asymmetric nuclear matter, unstable nuclei, and nuclear pasta”

11:00  B. Schütrumpf (Frankfurt)
“Pasta Structures at finite temperatura in TDHF”

14:00  P. Ring (TUM)
“Covariant density functional theory: on the way to a microscopic derivation”

15:00  M. Kimura (Hokkaido)
“Shape coexistence far from stability studied by antisymmetrized molecular dynamics”

March 8

10:00  K. Yoshida (Niigata)
“Skyrme energy-density functional approach to collective excitations in exotic nuclei”

11:00  M. Matsuo (Niigata)
“Pairing in neutron-rich nuclei in the HFB+QRPA approach”

March 12

10:00  K. Murano (RIKEN)
TBA

11:00  E. Hiyama (RIKEN)
“Few-body aspects of hypernuclear physics”

14:00 M. Ito (Kansai)
“Hybrid structure of clusters and valence neutrons in light neutron-rich nuclei”

15:00  Y. Fukuoka (Tsukuba)
“Excitation mode of light nuclei studied with multi-Slater determinants”

One day workshops on large scale calculations 13-15 March

March 13

10:00  T. Myo (Osaka Tech.)
“Role of tensor force in light nuclei with tensor optimized shell model”

11:00  Y. Funaki (RIKEN)
“Gas-like alpha-particle states in ¹⁶O”

14:00  S. Ohkubo (Kochi)
“Alpha clustering, linear chain structure and Bose-Einstein condensation”

15:00  T. Abe (CNS)
“No-core Monte Carlo Shell Model in p-shell Nuclei”
March 14

10:00  Y. Tsunoda (Tokyo)
“Study of medium-mass nuclei by large-scale shell model calculations”

11:00  K. Tsukiyama (Tokyo)
“In-medium similarity renormalization group for closed- and open-shell nuclei.”

14:00  K. Fukukawa (Kyoto)
Nucleon-Deuteron Scattering Described by a Quark-Model Baryon-Baryon Interaction

15:00  T. Suzuki (Nihon)
“Nuclear forces and spin-dependent modes in nuclei”

Break 16:00-16:30

16:30  F. Kobayashi (Kyoto)
“A new approach to investigate dineutron correlation and its application to $^{10}$Be”

March 15

10:00  T. Mizusaki (Senshu)
“New variational Monte Carlo method with energy variance extrapolation for large-scale shell-model calculations”

11:00  N. Shimizu (CNS)
“Recent developments toward large-scale shell-model calculations”

14:00  P. Ring (TUM)
“Density functionals with spectroscopic properties and the microscopic theory of quantum phase transitions in nuclei”

15:00  H. Nakada (Chiba)
“Direct and indirect effects of realistic tensor force on nuclear structure”
March 16

10:00  Y. Hashimoto (Tsukuba)
“Nonlinear vibration and relaxation in Gogny-TDHF calculation”

March 19

15:30  J. Randrup (LBL)  YITP seminar
“Fragment mass distributions from strongly damped shape evolution”

March 23

10:00  J. Terasaki (Tsukuba)
“Overlap of QRPA states based on ground states of different nuclei”

11:00  P. Ring (TUM)
“Relativistic theory of collective excitations in nuclei”

14:00  B. Balantekin (Wisconsin)
TBA

March 29

10:00  S. Ebata (CNS)
“Systematic investigation of the low-lying E1 strength with Canonical-basis TDHF”

11:00  T. Yoshida (CNS)
“Algebraic truncation method in $^{12}$C and $^{16}$O based on alpha cluster model”