

one-day workshop on
ab initio study of nuclear structure and reaction

Date: December 11, 2012

Place: Icho Kaikan meeting room C (3rd floor), Suita Campus, Osaka University

Organizes: N. Itagaki (YITP), T. Myo (OIT), and K. Ogata (RCNP)

Program

10:00-11:00 J. Carlson (LANL)

Tensor Correlations in Nuclei and Nucleonic Matter

11:00-11:30 T. Hatsuda (RIKEN Nishina Center)

Nuclear Force from Lattice QCD

11:30-12:00 H. Toki (RCNP)

Importance of pion and the tensor optimized shell model

12:00-12:30 A. Tamii (RCNP)

p-n Spin Correlation in the Ground State Studied by Measuring Spin-M1
Excitations in the sd-Shell Region

(Lunch)

13:30-14:00 K. Arai (Nagaoka)

Tensor force manifestations in ab initio study of the ${}^2\text{H}(d,\gamma){}^4\text{He}$, ${}^2\text{H}(d,p){}^3\text{H}$,
and ${}^2\text{H}(d,n){}^3\text{He}$ reactions

14:00-14:30 N. Shimizu (CNS)

New Generation of the Monte Carlo Shell Model for the K Computer Era

14:30-15:00 Y. Kikuchi (RCNP)

Description of three-body scattering states using complex scaling method
and its application to Coulomb breakup reactions of two-neutron halo nuclei

(Break)

15:30-16:00 W. Horiuchi (Hokkaido)

Electroweak strength functions and tensor correlations in ${}^4\text{He}$

16:00-16:30 Y. Fujiwara (Kyoto)

Few-Nucleon Systems Interacting via Non-Local Quark-Model
Baryon-Baryon Interaction

16:30-17:00 T. Kawabata (Kyoto)

Cluster structures probed by inelastic scattering

17:00-18:00 Discussion