

RIKEN RIBF international workshop

"Collective motions in unstable nuclei -experiments vs. theories-"

2005 May 24-26, Okochi Hall, RIEKN

May 24, Tuesday

Morning 1	Chairperson: K. Matsuyanagi (Kyoto)
9:00-9:10	T. Motobayashi (RIKEN) Opening address (10)
9:10-9:50	W. Nazarewicz (Tennessee) Self-consistent Studies of the Heavy and Superheavy Nuclei (35+5)
9:50-10:20	M. Matsuo (Niigata) Di-neutron dynamics in medium-mass neutron-rich nuclei (25+5)
10:20-10:40	T. Nakamura (Tokyo Tech) Coulomb breakup of the two neutron halo nucleus ^{11}Li (15+5)

Coffee break

Morning 2	Chairperson: Y. Abe (RCNP)
11:00-11:30	M. Ploszajczak (GANIL) Two-proton radioactivity : continuum shell-model approach (25+5)
11:30-11:50	J. Rotureau (Oak Ridge) Microscopic description of the two-proton radioactivity (15+5)
11:50-12:10	M. Kamimura (Kyushu) Dineutron model vs. three-body $^4\text{He}+n+n$ model of ^6He in $^6\text{He}+^{209}\text{Bi}$ scattering studied with four-body CDCC method (15+5)

Lunch

Afternoon 1	Chairperson: Nguyen Van Giai (Orsay)
13:30-14:00	S. Shimoura (Tokyo CNS) TBA (25+5)
14:00-14:20	Ong Hooi Jin (Tokyo) Quadrupole Collectivity in ^{16}C (15+5)
14:20-14:40	K. Yamada (RIKEN) Recent $B(E2)$ measurement of proton-rich nuclei at RIKEN (15+5)
14:40-15:10	M. Honma (Aizu) Shell-model description of neutron-rich pf-shell nuclei (25+5)

Coffee break

Afternoon 2	Chairperson: M. Ploszajczak (GANIL)
15:30-16:00	T. Ishii (JAERI) In-beam γ -ray spectroscopy of neutron-rich U nuclei produced by the multi-nucleon transfer reaction (25+5)
16:00-16:20	H. Iwasaki (Tokyo) Structure of neutron-rich isotopes at and around $N = 50$ from intermediate-energy Coulomb excitation (15+5)
16:20-16:40	Y. Utsuno (JAERI) Deformation and shape coexistence of neutron-rich Mg isotopes (15+5)
16:40-17:00	H. Ohta (Tsukuba) Skyrme GCM calculation with parity and angular momentum projection for Mg isotopes (15+5)

18:00-20:00 *Welcome party at Daiichi-shokudo*

May 25, Wednesday

Morning 1	Chairperson: W. Nazarewicz (Tennessee)
9:00-9:30	E. Ideguchi (Tokyo CNS) Study of high-spin states by using stable and unstable nuclear beams (25+5)
9:30-9:50	Y. R. Shimizu (Kyushu) Precession bands on high- K isomers by means of axially symmetric limit of the RPA wobbling formalism (15+5)
9:50-10:10	A. Odahara (Nishinippon Tech) Pairing Energies of the High-Spin Isomers in $N = 83$ Isotones (15+5)
10:10-10:30	M. Koizumi (JAERI) Multiple Coulomb excitaiton experiments for the study of shape transition in isotope chains at JAERI (15+5)

Coffee break

Session 2	Chairperson: Y. R. Shimizu (Kyushu)
10:50-11:10	U. Garg (Notre Dame) Triaxial Superdeformed Bands in ^{163}Tm (15+5)
11:10-11:30	T. Koike (Tohoku) Overview of present experimental investigations of chiral doublet bands (15+5)
11:30-11:50	T. Inakura (Niigata) Mixed Representation RPA Calculation for Negative-Parity Excitations built on Superdeformed Sates in Neutron-Rich Sulfur and Calcium Regions (15+5)
11:50-12:10	Dao Tien Khao (Hanoi) Probing the isovector deformation of the low-lying collective excitations in unstable nuclei (15+5)

Lunch

Afternoon 1	Chairperson: J. L. Egido (Madrid)
13:30-14:10	I. Hamamoto (Lund) One-particle resonant levels in deformed potential (35+5)
14:10-14:40	H. Sakurai (RIKEN) TBA (25+5)
14:40-15:00	T. Nakatsukasa (Tsukuba) TDHF studies of linear response in the continuum (15+5)

Coffee break

Afternoon 2	Chairperson: T. Papenbrock (Tennessee)
15:20-15:40	Y. Serizawa (Niigata) Di-Neutron Correlation in Low-Lying Octupole Excitation of Medium-Mass Neutron-Rich Nuclei (15+5)
15:40-16:00	M. Yamagami (RIKEN) TBA (15+5)
16:00-16:20	K. Yoshida (Kyoto) Dynamical Pairing Effects on Low-Frequency Modes of Excitation in Deformed Mg Isotopes close to the Neutron Drip Line (15+5)
16:20-16:40	J. Terasaki (North Carolina) Self-consistent description of multipole strength in exotic nuclei (15+5)
16:40-17:00	S. Yoshida (Hosei) Correlation among nuclear matter properties in mean field theories (15+5)

May 26, Thursday

Morning 1	Chairperson: I. Hamamoto (Lund)
9:00-9:30	J. Meng (Beijin) Recent advances in relativistic models of nuclear structure (25+5)
9:30-9:50	Nguyen Van Giai (Orsay) Unstable Nuclei in Relativistic Hartree-Fock Approach (15+5)
9:50-10:20	N. Tajima (Fukui) TBA (25+5)

Coffee break

Morning 2	Chairperson: M. Matsuo (Niigata)
10:40-11:00	A. Kohama (RIKEN) Looking at nuclei in the black sphere picture (15+5)
11:00-11:20	J. Skalski (Tennessee) Nuclear fusion barriers from static self-consistent calculations (15+5)
11:20-11:40	J. L. Egido (Madrid) Collectivity around the ^{132}Sn region (15+5)
11:40-12:00	N. Shimizu (Tokyo) Monte-Carlo Shell Model calculations of triaxially deformed states around ^{134}Ba (15+5)

Lunch

Afternoon 1	Chairperson: N. Tajima (Fukui)
13:30-14:00	D. Kameda (RIKEN) Magnetic moments for the ground states of ^{30}Al and ^{32}Al (25+5)
14:00-14:20	T. Suzuki (Nihon) Shell model study of spin modes in light nuclei (15+5)
14:20-14:40	M. Ito (Tsukuba) Description of the structural changes and the nuclear reaction in light neutron-rich nuclei (15+5)

Coffee break

Afternoon 2	Chairperson: H. Sakurai (RIKEN)
15:00-15:20	T. Papenbrock (Tennessee) TBA (15+5)
15:20-15:40	Nguyen Dinh Dang (RIKEN) Self-consistent RPA at zero and finite-temperature within picket-fence model (15+5)
15:40-16:00	D. J. Dean (Oak Ridge) Thermal Properties of $N = 40$ nuclei (15+5)
16:00-	H. Sagawa (Aizu) Concluding remarks
