Reimei Workshop "Intersection of Nuclear Structure and Direct Reaction"

Tokai Culture Center, February 28 - March 1, 2024

Program

Each talk includes 5-minutes discussions.

February 28

9:00-9:50	Registration
Chair: Y. Utsuno (JAEA)	
9:50-10:00	Y. Utsuno (JAEA)
	Opening
10:00-10:30	A. Obertelli (TU Darmstadt)
	Shadowing in one-nucleon knockout reactions
10:30-11:00	M. L. Cortes (RIKEN)
	From SEASTAR to HYPATIA: Probing nuclear structure via direct reactions at the
	RIBF with an upgraded gamma-ray spectrometer
	Break (11:00-11:30)
Chiar: K. Wimm	er (GSI)
11:30-12:00	T. Uesaka (RIKEN)
	TBA
12:00-12:30	K. Yoshida (JAEA)
	Studies on nucleon and alpha knockout reaction theory
Lunch (12:30-13:30)	
Chair: P. Garrett	t (Guelph)
13:30-14:00	M. Kimura (RIKEN)
	Shape of nuclei and knockout reactions
14:00-14:30	M. Enciu (TU Darmstadt)
	Extended p _{3/2} neutron orbital and the N=32 shell closure in ⁵² Ca
14:30-15:00	K. Washiyama (Tsukuba)
	Large-amplitude collective dynamics in low-lying states of transitional nuclei with
	collective Hamiltonian method
	Break (15:00-15:30)
Chair: F. Flavigny (LPC Caen)	
15:30-16:00	K. Wimmer (GSI)
	Probing isospin symmetry by direct reactions
16:00-16:30	A. Kumar (Tsukuba)
	Shell model studies in nuclear beta decay
16:30-17:00	S. Ogawa (Kyushu)

Theoretical study on the dineutron knockout reaction

February 29

Chair: T. Uesaka (RIKEN)

9:30-10:00 T. Nakatsukasa (Tsukuba)

Nuclear pairing and alpha particle formation

10:00-10:30 W. Horiuchi (Osaka Metropolitan)

Nuclear cluster structure studied with proton scattering

Break (10:30-11:00)

Chair: T. Nakatsukasa (Tsukuba)

11:00-11:30 T. Otsuka (RIKEN)

Prevailing triaxiality and its experimental investigations

11:30-12:00 N. Hinohara (Tsukuba)

Pairing rotation and pairing properties in ground states

12:00-12:30 J. Smallcombe (JAEA)

Experimental studies of nuclear shapes with electron and gamma-spectroscopy

Lunch (12:30-13:30)

Chair: T. Otsuka (RIKEN)

13:30-14:00 P. Garrett (Guelph)

Single- and multi-nucleon transfer studies of collective and shape-coexisting

structures

14:00-14:30 Y. Chazono (RIKEN)

Reaction model for correlated two-nucleon pairs knockout

14:30-15:00 Y. Tsunoda (CNS)

Nuclear structure studied by shell model calculations using two-nucleon

amplitudes

Pre-banquet excursion & Dinner at Mito

March 1

Chair: R. Orlandi (JAEA)

9:30-10:00 F. Flavigny (LPC Caen)

Search for intruder states in 83Ge by one-neutron knockout with HICARI@RIBF

10:00-10:30 T. Edagawa (RCNP)

Effective polarization and gamma-ray angular distribution in alpha knockout

reactions

Break (10:30-11:00)

Chair: M. L. Cortes (RIKEN)

11:00-11:30 T. Nakamura (Tokyo Tech)

Halo and deformation in ³¹Ne revealed by Coulomb and nuclear breakup reactions

11:30-12:00 T. Pohl (RIKEN)

Reaction mechanisms in one-nucleon removal direct reactions at intermediate

energies

12:00-12:30 A. Stefanescu (TU Darmstadt)

STRASSE: an advanced detection setup for nuclear structure studies

Lunch (12:30-13:30)

Chair: K. Yoshida (JAEA)

13:30-14:00 T. Kawabata (Osaka)

Search for alpha condensed states in ²⁰Ne and ²⁴Mg

14:00-14:30 T. Furumoto (YNU)

Construction of density-dependent alpha-nucleon interaction and its application to

alpha-nucleus elastic scattering

Break (14:30-15:00)

Chair: A. Obertelli (TU Darmstadt)

15:00-15:30 K. Nishio (JAEA)

Fission study of actinides using multinucleon transfer reactions

15:30-16:00 R. Orlandi (JAEA)

Multi-nucleon transfer reactions and nuclear structure studies in the heavy actinide

region

16:00-16:10 A. Obertelli (TU Darmstadt)

Closing