

2nd OMU workshop “Recent advances in nuclear cluster physics”

Supported by NITEP

Date: 2024.8.1-2

Place: E108, Faculty of Science, Sugimoto Campus, Osaka Metropolitan Univ.

Program (Each talk 30 min + 10 min discussion)

8/1		Presenter	Affiliation	Title
9:00	9:05			Opening
9:05	9:45	B. Zhou	Fudan U.	Search for the Hoyle-analog state in light nuclei
9:45	10:25	Y. Funaki	KGU	Structure study of ^{20}Ne by 5-alpha OCM
10:25	10:40	Break		
10:40	11:20	K. Nakagawa	Kyoto U.	The 3-body cluster structure and its breaking in ^8He and ^{12}C
11:20	12:00	Y. Yamaguchi	OMU	Cluster structure in the ground state of ^{20}Ne
12:00	13:30	Lunch break		
13:30	14:10	M. Kimura	RIKEN	Shape of Light Clustered Nuclei
14:10	14:50	R. Barman	RIKEN	Structure and reactions of exotic nuclei in the island of inversion
14:50	15:10	Break		
15:10	15:50	W. Horiuchi	OMU	Probes for exploring nuclear cluster structure
15:50	16:30	Y. Fujita	RCNP	Cluster Structures of Highly Excited States in Light Nuclei Deduced by the study of Super Gamow-Teller Transitions
8/2				
9:00	9:40	T. Yamada	KGU	Nucleon correlations and many-body term effects in nuclear matter
9:40	10:20	N. Hinohara	Tsukuba	Alpha-removal strength in the Hartree-Fock-Bogoliubov approach
10:20	10:40	Break		
10:40	11:20	S. Watanabe	Gifu Coll.	Investigation of the determination of nuclear deformation using high-energy heavy-ion scattering
11:20	12:00	T. Furumoto	YNU	Global Description of Light-Ion Elastic Scatterings from Microscopic Viewpoint
12:00	13:30	Lunch break		

13:30	14:10	Y. Taniguchi	Fukuyama	Nuclear fusion reactions in astrophysical explosional phenomena
14:10	14:50	S. Aoyama	KEK	Few-body cluster calculation using quantum machine learning
14:50	15:10	Break		
15:10	15:50	H. Masui	KIT	Looking back and seeing forward unstable nuclear physics
15:50	16:30	N. Itagaki	OMU	Novel cluster states consisting of jj-coupling shell-model states
16:30				Closing & Free discussion