

International Symposium on Clustering as a Window on the Hierarchical Structure of Quantum Systems (CLUSHIQ2022)

October 31- November 3, Sendai International Center

TIMETABLE

Oct. 31	Chair	Speaker	Affiliation	Title
10:00		Takashi Nakamura	Tokyo Institute of Technology	Welcome address
10:30	H. Tamura	Evgeny Epelbaum	Ruhr-Universität Bochum, Germany	Few nucleon systems in chiral EFT: Recent developments
11:10		Yosuke Kondo	Tokyo Institute of Technology	Exploring multi-neutron decay nuclei
11:40		Denny Sombillo	University of the Philippines Diliman	Analysis of amplitude line shapes using deep learning
12:00	Lunch			
14:00		Kenta Shigaki	Hiroshima University	From bridging quark and hadron hierarchies to even broader view of QCD world
14:30	K. Sekiguchi	Yorito Yamaguchi	Hiroshima University	Study of multi-strange dibaryons at the LHC energy
15:00		Tetsuo Hatsuda	RIKEN	Hyperon interactions from Lattice QCD and Ξ hypernuclei
15:30	Break			
16:00	K.Shigaki	Laura Fabbietti (online)	Technische Universität München, Germany	Studying two- and three-body hadron systems at the LHC
16:40		Marek Karliner (online)	Tel Aviv University, Israel	Recently observed strange pentaquarks
17:20	A.Hosaka	Poster Presentation		No.1-10 on the poster presentation list.

Nov. 1	Chair	Speaker	Affiliation	Title
9:00	T.Nakamura	Nir Barnea	The Hebrew University of Jerusalem, Israel	Baryonic EFT for Light Hypernuclei
9:40		Sonia Bacca	University of Mainz, Germany	Ab initio electroweak reactions with nuclei
10:20	Break			
10:50		Hiroaki Ohnishi	ELPH, Tohoku University	Elucidation of hierarchical structure between quark and hadron phases utilizing quark clusters
11:20	M. Oka	Hiroyuki Noumi	RCNP, Osaka University	Quark-cluster aspects in baryons and baryon spectroscopy at J-PARC
11:50		Hartmut Schmieden	Universität Bonn, Germany	Investigation of potentially exotic Baryons in the light-quark sector with the BGOOD Experiment at ELSA
12:30	Lunch			
14:30	T. Takahashi	Poster Presentation		No.11-38 on the poster presentation list.
16:00	Break			
16:20 - 18:00	Poster Session			

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Nov. 2	Chair	Speaker	Affiliation	Title
9:00	M. Horikoshi	Doerte Blume (online)	University of Oklahoma, US	Loosely bound van der Waals clusters
9:40		Niels Kjærgaard	University of Otago, New Zealand	Quantum scattering in a nano-eV atom collider
10:20		Break		
10:50		Yusuke Nishida	Tokyo Institute of Technology	Charged analogs of the Efimov effect
11:20		Yoshiro Takahashi	Kyoto University	Ultracold atom study of exotic phenomena bridging different hierarchies
11:50	H. Tajima	Munekazu Horikoshi	Osaka Metropolitan University	Toward complete of the phase diagram of the BCS-BEC crossover
12:10		Taira Kawamura	Keio University	Feasibility of the non-uniform FFLO superfluid Fermi atomic gas
12:30		Junichi Takahashi	Waseda University	Real-space quantum dynamics explored by collisions of wave packets: From inter-polaron interaction to acoustic Hawking radiation/gravitational wave generation
12:50		Lunch		
14:50		Hyeon-Deuk Kim (online)	Kyoto University	Real-Time Dynamics of Hydrogen and Its Isotopic Molecules Revealed by the Non-Empirical Quantum Molecular Dynamics Method
15:20	P. Naidon	Yasuhiro Yamaguchi	Nagoya University	Pcs pentaquarks as a mixture state of hadronic molecules and compact multiquarks
15:50		Takaharu Otsuka	University of Tokyo	Untold story of the Hoyle state - first ab initio calculation of ^{12}C -
16:10		Break		
16:30	Y. Takahashi	Jurgen Schukraft (online)	CERN, Switzerland	From small (pp) to LARGE (AA): What do small systems tell us about the QGP.
17:10		Dmitry S. Petrov (online)	Université Paris-Saclay, CNRS, LPTMS, France	Self-binding of one-dimensional fermionic mixtures with zero-range interspecies attraction

Nov. 3	Chair	Speaker	Affiliation	Title
9:00	H. Ohnishi	Ana P. Majtey (online)	National University of Cordoba, Argentina	Composite-boson approach to ultracold interacting Fermi gases
9:40		Craig Roberts (online)	Nanjing University, China	Dynamical diquark picture of baryons
10:20		Break		
10:50	H. Tamura	Koji Miwa	Tohoku University	Study of hyperon-nucleon interactions for understanding the hierarchical structure of matter with hyperons
11:20		Junya Yoshida	Tohoku University	Experimental studies of nuclear systems with double strangeness using nuclear emulsion
11:50		Lunch		
13:50		Atomu Watanabe	Tokyo Institute of Technology	Study of three nucleon force via proton- ^3He scattering
14:20	E. Hiyama	Meytal Duer (online)	Technische Universität Darmstadt, Germany	The quest for the tetra-neutron
15:00		Takashi Nakamura	Tokyo Institute of Technology	Closing