

CCS International Symposium 2021
**13th symposium on Discovery, Fusion, Creation of New Knowledge
by Multidisciplinary Computational Sciences**

October 8, 2021

<https://www.ccs.tsukuba.ac.jp/sympo20211008en/>

Parallel Session 3: Nuclear physics

Time: 16:15 – 17:32 (JST)

Place: <https://us02web.zoom.us/j/89989457487>

Convenor: HINOHARA Nobuo (CCS, University of Tsukuba)

Time (5 + 2 min. each)	Speaker (Affiliation)	Title
16:15 – 16:22	TSUJI Ryutaro (Tohoku Univ.)	Nucleon Structure from lattice QCD at the physical point
16:22 – 16:29	DOI Takumi (RIKEN)	First-principles Lattice QCD calculation of Hadron interactions
16:29 – 16:36	AOYAMA Shigeyoshi (Tokyo Univ. of Agriculture and Technology)	A fundamental research for the tritium contaminated water problem by nuclear ab-initio calculation
16:36 – 16:43	TANIGUCHI Yasutaka (NIT, Kagawa College)	$^{12}\text{C} + ^{12}\text{C}$ Fusion Astrophysical S factor from a Full-microscopic Nuclear Model
16:43 – 16:50	MAGIERSKI Piotr (Warsaw Univ. of Technology)	Superfluid dynamics of nuclear systems
16:50 – 16:57	NAKATSUKASA Takashi (Univ. of Tsukuba)	Cluster formation and dynamics in low-energy nuclear reaction
16:57 – 17:04	TSUNODA Yusuke (Univ. of Tokyo)	Nuclear shapes and collective motions in the region of Sm
17:04 – 17:11	SHIMIZU Noritaka (Univ. of Tokyo)	Microscopic description of the collective motions of medium-heavy nuclei based on shell-model calculations
17:11 – 17:18	ABE Kohei (Chiba Univ.)	Microscopic study on the origin of the rotational band of nuclei
17:18 – 17:25	TERASAKI Jun (Czech Tech. Univ. in Prague)	Estimation of nuclear matrix elements of double- β decay from shell model and

		quasiparticle random-phase approximation
17:25 – 17:32	HINOHARA Nobuo (Univ. of Tsukuba)	Systematic calculation of two-neutrino double-beta decay nuclear matrix element with the finite-amplitude method of nuclear density functional theory