

CCS International Symposium 2020
**12th symposium on Discovery, Fusion, Creation of New Knowledge
by Multidisciplinary Computational Sciences**

October 6, 2020

<https://www.ccs.tsukuba.ac.jp/sympo20201006en/>

Parallel Session 3: Nuclear physics

Time: 16:20 – 17:37 (JST)

Place: <https://zoom.us/j/97910927178>

Convenor: Nobuo Hinohara (CCS, University of Tsukuba)

Time (5 + 2 min. each)	Speaker (Affiliation)	Title
16:20-16:27	Takumi Doi (RIKEN)	First-principles Lattice QCD calculation of Hadron interactions
16:27-16:34	Eigo Shintani (Univ. of Tsukuba)	Non-perturbative renormalization of nucleon tensor and scalar couplings in lattice QCD
16:34-16:41	Ryutaro Tsuji (Tohoku Univ.)	Nucleon structure from 2+1 flavor lattice QCD at the physical point
16:41-16:48	Shigeyoshi Aoyama (Niigata Univ.)	Ab initio calculation of nuclear clusters
16:48-16:55	Yasutaka Taniguchi (NIT Kagawa College)	Deep sub-barrier $^{12}\text{C}+^{12}\text{C}$ molecular resonance states
16:55-17:02	Takashi Nakatsukasa (Univ. of Tsukuba)	Quantum dynamics in nuclei and neutron stars
17:02-17:09	Kazuyuki Sekizawa (Niigata Univ.)	Stochastic Mean-Field Approach for Low-Energy Nuclear Reactions
17:09-17:16	Noritaka Shimizu (Univ. of Tokyo)	Microscopic description of the collective motions of medium-heavy nuclei based on shell-model calculations
17:16-17:23	Yusuke Tsunoda (Univ. of Tokyo)	Nuclear shapes and collective motions in the region of Sm
17:23-17:30	Jun Terasaki (Czech Tech. Univ.)	Improvement of reliability of nuclear matrix element of neutrinoless double- β decay
17:30-17:37	Nobuo Hinohara (Univ. of Tsukuba)	Calculation of double-beta decay nuclear matrix elements using QRPA