

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 1: Particle Physics

Time: 16:20 – 17:58 (JST)

Place: <https://zoom.us/j/95966476713>

Convenor: Hiroshi Ohno (CCS, University of Tsukuba)

Time (5 + 2 min. each)	Speaker (Affiliation)	Title
16:20 – 16:27	Naoya Ukita (Univ. of Tsukuba)	2+1 Flavor Lattice QCD with the Physical Quark Masses
16:27 – 16:34	Naoya Ukita (Univ. of Tsukuba)	QCD hadron spectrum on very large volume lattice
16:34 – 16:41	Naruhito Ishizuka (Univ. of Tsukuba)	Calculation of K meson decay amplitudes
16:41 – 16:48	Takeshi Yamazaki (Univ. of Tsukuba)	Meson form factors in Nf=2+1 lattice QCD at the physical point
16:48 – 16:55	Eigo Shintani (Univ. of Tsukuba)	Determination of HVP muon g-2 in lattice QCD
16:55 – 17:02	Norikazu Yamada (KEK)	Is N=2 large?
17:02 – 17:09	Takashi Kaneko (KEK)	Test of new physics models through B meson semileptonic decays
17:09 – 17:16	Hideo Matsufuru (KEK)	Implementation of Lattice QCD common code to large scale parallel supercomputer with manycore and GPU architecture
17:16 – 17:23	Akihiro Shibata (KEK)	Study of confinement mechanism based on the dual superconductivity
17:23 – 17:30	Shinichiro Akiyama (Univ. of Tsukuba)	Particle Physics with Tensor Network Scheme
17:30 – 17:37	Hidenori Fukaya (Osaka Univ.)	Topological excitation in high temperature phase of Quantum Chromodynamics

17:37 – 17:44	Kazuyuki Kanaya (Univ. of Tsukuba)	Thermodynamic observables in (2+1)-flavor QCD applying the gradient-flow method
17:44 – 17:51	Yoshifumi Nakamura (RIKEN)	Study of QCD with finite temperature
17:51 – 17:58	Hiroshi Ohno (Univ. of Tsukuba)	Critical endpoint of 4-flavor QCD at finite temperature