

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 1: Particle physics

Time: 16:15 – 17:53 (JST)

Place: <https://us02web.zoom.us/j/86973134808>

Convenor: OHNO Hiroshi (CCS, University of Tsukuba)

Time (5 + 2 min. each)	Speaker (Affiliation)	Title
16:15 – 16:22	OHNO Hiroshi (Univ. of Tsukuba)	Critical endpoint of finite temperature phase transition for four-flavor QCD
16:22 – 16:29	NAKAMURA Yoshifumi (RIKEN)	Study of QCD with finite temperature
16:29 – 16:36	KANAYA Kazuyuki (Univ. of Tsukuba)	Thermodynamics of 2 + 1 flavor QCD with the gradient flow
16:36 – 16:43	FUKAYA Hidenori (Osaka Univ.)	Topological excitation of high temperature QCD near the physical point
16:43 – 16:50	AKIYAMA Shinichiro (Univ. of Tsukuba)	Particle Physics with Tensor Network Scheme
16:50 – 16:57	SHIBATA Akihiro (KEK)	Lattice study of confinement mechanism based on the dual superconductivity
16:57 – 17:04	NEMURA Hidekatsu (Osaka Univ.)	Implementation of Lattice QCD common code to large scale parallel supercomputer with manycore architecture
17:04 – 17:11	KANEKO Takashi (KEK)	B meson mixing from lattice QCD with relativistic heavy quarks
17:11 – 17:18	YAMADA Norikazu (KEK)	Peeking into the θ vacuum
17:18 – 17:25	UKITA Naoya (Univ. of Tsukuba)	Calculation of QCD hadron spectrum in master field formalism
17:25 – 17:32	ISHIZUKA Naruhito	Calculation of K meson decay amplitudes

	(Univ. of Tsukuba)	
17:32 – 17:39	YAMAZAKI Takeshi (Univ. of Tsukuba)	Calculation of pion and kaon electromagnetic form factors in $N_f = 2 + 1$ lattice QCD
17:39 – 17:46	SHINTANI Eigo (Univ. of Tsukuba)	Hadronic vacuum polarization contribution to muon $g - 2$ in lattice QCD
17:46 – 17:53	ISHIKAWA Ken-Ichi (Hiroshima Univ.)	Search for physics beyond the standard model from $2 + 1$ Flavor Lattice QCD with the Physical Quark Masses