

## Conference Room 304

Poster Number	Project ID		Presenter	Affiliation of Presenter	Title
	2019	2018			
1	19a1	18a1	Yukio Hashimoto	University of Tsukuba	Study of structure and reaction mechanism of superfluid nuclei based on the density functional theory
2	19a2	18a39	Yoshinobu KURAMASHI	University of Tsukuba	2+1 Flavor Lattice QCD with the Physical Quark Masses
3	19a48	18a15	Eigo Shintani	School of Engineering, Tokyo University	Determination of HVP muon $g-2$ in lattice QCD
4	19a5		Toshiaki Hayashi	NTT Basic Research Laboratories, NTT Corporation	Numerical study of voltage statistics of variable-range hopping
5	19a6	18a4	Ataru Tanikawa	The University of Tokyo	Three-dimensional simulations of type Ia supernovae
6	19a7		Ryuhei Harada	Center for Computational Sciences, University of Tsukuba	Time-localized Predictions of Conformational Transitions in Protein Dynamics
7	19a8	18a6	Jun Terasaki	Czech Technical University in Prague (Tokyo Institute of Technology)	Improvement of Reliability of Nuclear Matrix Element of Neutrinoless Double-Beta Decay
8	19a9	18a9	Daisuke Takahashi	Center for Computational Sciences, University of Tsukuba	Implementation of Parallel 3-D Real FFT with 2-D Decomposition on Intel Xeon Phi Clusters
9	19a10	18a11	Norikazu Yamada	KEK	Strong CP problem in QCD on the lattice
10	19a11,19a18	18a3	Masahiro Nakao	RIKEN R-CCS	Multi-accelerator extension in OpenMP based on PGAS model
11	19a12		Naoya Ukita	University of Tsukuba	QCD hadron spectrum on very large volume lattice
12	19a15	18a47	Xiao-Min Tong	Center for Computational Sciences, University of Tsukuba	Excitation and Ionization of atoms in an elliptical laser field
13	19a16		Norifumi Yamamoto	Chiba Institute of Technology	Theoretical insights into the mechanisms of aggregation-induced emission of a cyanostilbene derivative
14	19a17	18a34	Hiroaki Shiokawa	Center for Computational Sciences, University of Tsukuba	Distributed Parallel Structural Graph Clustering for Billion-edge Graphs
15	19a70	18a69	Nobuhiko Kobayashi	University of Tsukuba	Theory of organic devices by large-scale first-principles charge transport calculations
16	19a19	18a16	Takashi Kaneko	KEK	Test of new physics models through B meson semileptonic decays
17	19a20	18a33	Shigeyoshi Aoyama	Niigata University	Ab initio calculation of nuclear clusters
18	19a21		Taisuke Boku	Center for Computational Sciences, University of Tsukuba	Development of FPGA-GPU combined application and FPGA-FPGA communication system
19		18a66	Taisuke Boku	Center for Computational Sciences, University of Tsukuba	Performance Evaluation on Cluster and MPP Systems based on KNL Many-Core Architecture
20	19a24	18a28	Takuto SATO	University of Tsukuba	Development and application of Large Eddy Simulation model for urban Areas and Wind Farms
21	19a25		OSAWA Kiyoshi	Faculty of Health and Sport Sciences, University of Tsukuba	Evaluation of baseball players with big data
22	19a27	18a40	Shinichiro Akiyama	Graduate school of pure and applied sciences, University of Tsukuba	Particle Physics with Tensor Network Scheme
23	19a28	18a12	Takeshi Yamazaki	University of Tsukuba	Nucleon form factor from $N_f=2+1$ lattice QCD at physical point
24	19a29	18a37	Ryota Ishiyama Hiroshi L. Tanaka	University of Tsukuba University of Tsukuba	Analysis of the Arctic Cyclone Appeared in August 2016 using the Cloud-Resolving Global Model NICAM
25	19a30	18a29	Hiroaki KUMADA	Faculty of Medicine, University of Tsukuba	Development of a multi-modal treatment planning system with the high-speed and High-precision Monte Carlo dose calculation
26	19a32	18a42	Kenta Kiuchi	Yukawa Institute for Theoretical Physics, Max-Planck Institute for Gravitational Physics (Albert Einstein Institute)	High precision simulations of a binary neutron star merger
27	19a33	18a31	Naruhito Ishizuka	University of Tsukuba	Calculation of K meson decay amplitudes
28	19a34	18a41	Keisuke Saito	RCAST, Univ. of Tokyo	Protonation mechanism of the over-reduced catalytic site of photosynthetic oxygen-evolving enzyme
29	19a35	18a27	Junpei Kakazu	University of Tsukuba	calculation of $K_{[3]}$ form factor in $N_f=2+1$ lattice QCD at physical point
30	19a36		Miwako Tsuji	RIKEN	SCAMP: Scalable communication performance prediction using auto-generated pseudo MPI event trace and CPU-simulator
31		18a17	Miwako Tsuji	RIKEN	SSSP: A performance projection method using simple benchmarks for real applications
32	19a37	18a46	Takahiro Yano	University of Tsukuba	Development of eigenvalue solvers and dimensionality reduction methods using complex moment-based subspace
33	19a38	18a25	Mitsuo Shoji	CCS Univ. of Tsukuba	Theoretical elucidation on the reaction mechanisms of biomolecules based on the large-scale molecular simulations
34	19a39		Yuta Asahina	University of Tsukuba	General relativistic radiation MHD simulations of supercritical accretion flows
35	19a40		Shunsuke Yamada	University of Tsukuba, Center for Computational Science	First-principles study for dynamics of electrons and electromagnetic field in nanoscale thin films based on real-time time-dependent functional theory
36	19a41	18a55	Hiroshi Ohno	CCS, University of Tsukuba	Critical endpoint in 4-flavor QCD at finite temperature with $N_t = 10$
37	19a42	18a5	Shinji Takeda	Kanazawa University	Phase structure of finite temperature QCD with $N_f=2+1$ and $N_f=3$

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38	19a43	18a14	MATSUFURU, Hideo	High Energy Accelerator Research Organization (KEK)	Implementation of Lattice QCD code Bridge++ on large scale parallel supercomputers with many-core and GPU architectures
39	19a44	18a21	Kazuyuki Kanaya	Tomonaga Center for the History of the Universe University of Tsukuba	(2+1)-flavor QCD thermodynamics using the gradient flow
40	19a45	18a7	TANIGUCHI Yasutaka	National Institute of Technology (KOSEN), Kagawa College	12C + 16O molecular resonances at the deep sub-barrier energy
41	19a46		Yiyu Tan Toshiyuki Imamura	RIKEN CCS RIKEN CCS	Poster title: Initial survey on Reduced/extended/mixed-precision calculation by using an FPGA and a GPU
42	19a47		Hideobu Yajima	University of Tsukuba	Numerical simulations of near-infrared light propagation in tissue phantoms

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	2019	2018			
43	19a49	18a60	Nobuo Hinohara	CCS, University of Tsukuba	FAM-QRPA calculation for double-beta decay nuclear matrix elements
44	19a50		Tatsuhiko Ohto	Osaka University	Exploring performance of DFT-MD simulation for interfacial water
45	19a51		Naohito Nakasato	University of Aizu	Performance Evaluation of High Precision Floating-point Units on Cygnus
46	19a52		Hiroyasu Koizumi	University of Tsukuba	Novel spin-excitation from Rashba spin-interaction in cuprates
47	19a53	18a13	Yuji Inagaki	Center for Computational Sciences, University of Tsukuba	The phylogenetic position of Microheliella marins in a 335-gene phylogeny
48	19a54		Kentaro Sano	Center for Computational Science, Riken	High-Performance Custom Computing with FPGA Cluster as Off-loading Engine for Supercomputers
49	19a55		Natsuki Tsukamoto	Tohoku University	Non-perturbative renormalization of nucleon couplings in lattice QCD
50	19a56	18a32	Masao Mori	CCS, University of Tsukuba	Formation and evolution of local galaxies and dark matter halos
51	19a57		Megumi Oya	Department of Epidemiology and Environmental Health, Juntendo University	automatic planning of radiation therapy for breast cancer using deep learning
52	19a58	18a19	Kohji Yoshikawa	CCS, Tsukuba University	Dynamical Effect of Cosmological Relic Neutrinos
53	19a60	18a51	Kohji Yoshikawa	CCS, Tsukuba University	The impact of AGN feedback on the evolution of SMBHs
54	19a61		Satoshi Tanaka	University of Tsukuba	Radiation Hydrodynamic simulations with recombination photon of First stars.
55	19a62	18a43	Mitsuharu Uemoto	Center for Computational Sciences, University of Tsukuba	Ab-initio large-scale calculation of laser interactions with nanoscale materials
56	19a63	18a10	Yu-ichiro Matsushita	Tokyo Institute of Technology	Comprehensive study on carbon-related defects in SiC (0001)/SiO2 by hybrid functional calculations
57	19a64	18a36	Masashi Noda	University of Tsukuba	Photoexcited Electron Dynamics in Nanostructures
58	19a65	18a57	Kazuyuki Sekizawa	Niigata University	Heavy-Ion Multinucleon Transfer Reactions within Stochastic Mean-Field Approach
59	19a66	18a23	Christian Rohrhofer	Osaka Univ	Topology and symmetry of 2-flavor QCD at high temperature
60	19a67	18a65	Toyokazu Sekiguchi	KEK	Deviation from scaling behavior in dynamics of axion cosmic strings
61	19a68	18a68	Takuya Sekikawa	Graduate School of Science and Technology, Niigata University	Superconductivity in DNA and its sequence dependence based on first principles calculations and Tomonaga-Luttinger theory
62	19a68	18a68	Masaki Saito	Graduate School of Science and Technology, Niigata University	First-principles calculations for electronic states of Al-Zn-Mg quasicrystal and its approximant
63	19a68	18a68	Kentaro Kobayashi	Graduate School of Science and Technology, Niigata University	Ab initio molecular dynamics study of localized-to-extended-state transition of disordered materials
64	19a69		Tsutomu Ikegami	National Institute of Advanced Industrial Science and Technology	Heterogeneous computing using FPGA, CPU and GPU
65		18a71	Hiroko X. Kondo	Kitami Institute of Technology	Molecular mechanism of voltage-dependent inactivation on W366F mutant of Kv1.2
66	19a72		Hiroko Kondo	Kitami Institute of Technology	Effects of a mutation on the structure of CDR-H3 in an anti-HIV neutralizing antibody PG16
67	19a73		Hirimitsu Shimoyama	Kitasato University	Novel Method to Study PPI Processes by Multi-Scale MD and Rigid-Docking
68	19a75	18a20	Hirimitsu Shimoyama	School of Pharmacy, Kitasato University	Molecular dynamics simulation study on the allosteric effect of GPCR
69	19a74		Takumi Doi	RIKEN	First-principles Lattice QCD calculation of Hadron interactions
70	19a77	18a53	Tomoya Ono	Kobe University	Development of large-scale first-principles transport calculation code RSPACE and its applications
71	19a78	18a64	Akihiro Shibata	Computing Research Center, KEK	Study of confinement mechanism based on the dual superconductivity
72	19a79		Yusuke Tsunoda	Center for Nuclear Study, the University of Tokyo	Shapes of Sm isotopes studied by Monte Carlo shell model calculations
73	19a80		Yohei Miki	Information Technology Center, The University of Tokyo	Development of Computing Platform based on Transprecision and Inter-GPU Streaming Mechanism for HPC
74	19a81		Kazumasa Horie	Center for Computational Sciences, University of Tsukuba	Deep Learning Approach to Automated Sleep Stage Scoring
75		18a2	Yoshinari Kameda	CCS U-Tsukuba	A study of performance evaluation of CNN on COMA and a GPU computer
76		18a61	Makito Abe	Center for Computational Sciences, Univ. of Tsukuba	Structure Formation in the Early Universe using Radiation Hydrodynamic Simulations
77		18a62	Taku Itoh	Nihon University	Numerical Evaluation of Communication Avoiding CG and MrR
78		18a18	Yuya Takane	AIST	Urban climate change and energy
79		18a26	Kengo Tomida	Osaka University	Global Non-ideal Magnetohydrodynamic Simulations of Protoplanetary Disks
80		18a30	Daisuke Kadoh	National Center for theoretical Sciences, Taiwan	Lattice study of gauge/gravity duality
81		18a63	Chikako Ishizuka	LANE, IIR, Tokyo Tech	Systematic study of nuclear fission of actinides using multi-dimensional Langevin models
82		18a48	Ayako NAKATA	National Institute for Materials Science	Acceleration of large scale first principles calculation using Sakurai Sugiura method
83		18a54	Hideyuki Kawashima	Keio University	Study on Infrastructure for Data Driven Science

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84		18a56	Hiroaki Tokiwa	Department of Chemistry, Rikkyo University	In silico analysis on structure and function of lipid metabolism-related proteins based on the first-principles calculation
85		18a72	Lisa Matsukura	KINDAI University	Molecular dynamics simulation of the biomolecules that related to the future biomedicine
86		18a58	Yoshiki Sakurai	Nagoya University	Computational science of dust coagulation in compressible turbulence
87		18a59	TANIGUCHI Yusuke	University of Tsukuba	Numerical study of N=1 super Yang-Mills theory in 4 dimensions