

Poster Session

ID	Presenter	Poster Title
1	Takashi Nakatsukasa	Quantum dynamics in nuclei and neutron stars
2	Norio Yoshida	Statistical mechanics analysis for biomolecular functions
3	Ataru Tanikawa	Numerical study of compact-object binary stars in open clusters
4	Yuta Hori	Application of data-driven molecular dynamics simulation to astrobiology
5	Noritaka Shimizu	Microscopic description of the collective motion of medium-heavy nuclei based on shell-model calculations
6	Hiroaki Tahara	Development of machine learning codes for gravitational wave analysis
7	Naoya Ukita	Search for physics beyond the standard model from 2+1+1 Flavor Lattice QCD with the Physical Quark Masses
8	Ryutaro Tsuji	Nucleon structure from lattice QCD at the physical point
9	Takuto Sato	Development and Application of Large-Eddy Simulation Model for Urban Areas
10	Kyo Yoshida	Numerical search for states with constant enstrophy flux in wavenumber space over finite time interval in two-dimensional turbulence
11	Toshifumi Mori	Theoretical study of chemical reactions in solution and biomolecules
12	Yoshinobu Kuramashi	Particle Physics with Tensor Network Scheme
13	Hitoshi Nakada	E2 anomalies in O and Ca nuclei
14	Sirin Sittivanichai	Elucidating the Zn ²⁺ permeation pathway through the transient receptor potential 6 (TRPC6) ion channel: A molecular dynamic simulation
15	Kohei Sato	Meson Charge Radii from Large-Volume Lattice QCD
17	Atsushi Yamada	Molecular Simulation Analyses of Solution Structure of Amino Acids in Ionic Liquid Aqueous Solution
18	ryuhei harada	The Investigation of Protein Conformations in Culler Environment with Biomolecules Mimicking Model
19	Takato Takuno	Generating seeing-degraded images of the Sun using diffusion models
20	Keita Nishii	Establishing Methods for Modeling Neutral Gas Flows towards the Realization of a Numerical Vacuum Chamber
21	Genki Kudo	Molecular Dynamics Simulation for Rational Drug Discovery and Drug Design
22	Kowit Hengphasatporn	Computational Techniques for Drug Discovery and Design
23	Shunsuke Yamada	Real-time first-principles calculations for ultrafast spin injection in Graphene-TMD heterobilayer
25	Daisuke Takahashi	Parallel Implementation of Number-Theoretic Transform on GPU Clusters
26	Satoshi Togo	Code development for high-temperature plasma transport analyses in open and inhomogeneous magnetic field
27	TOMOHIRO OISHI	Spin correlation and entanglement in two-proton emission
28	Yoshitaka Arahori	Towards Parallel Detection of Persistent Memory Bugs
29	Takayuki Miyagi	Generating matrix elements of two-body currents
30	ENDALEW TAREKEGN	Modeling Regional Hydroclimate Extremes with Supercomputing: Statistical Downscaling over the Mekong Delta and WRF/WRF-Hydro Sensitivity Experiments in the Blue Nile Basin
31	Akifumi Nishi	Numerical simulations of clear air turbulence and rapid changes in wind speed and direction due to an isolated mountain using a high-resolution numerical weather prediction model
32	Xiao-Min Tong	Efficient way to produce H 3d excited state in strong laser fields
33	Hideo Matsufuru	Implementation of Lattice QCD common code to large scale parallel supercomputer with SIMD and GPU architecture
34	Megumi Oya	Frequency and impact of patterns of presence or absence of symptoms and characteristics
35	Kazumasa Horie	Development of deep learning models for automated sleep diagnosis and treatment
37	Shinichiro Akiyama	Grassmann tensor network approach to particle physics and its application to quantum computation
38	Keisuke Saito	Control Mechanisms of Absorption Wavelengths in Photosynthetic Light-Harvesting Complexes
39	Yuta Asahina	General Relativistic Radiation Magnetohydrodynamics Simulations of Accretion Flows and Outflows around Compact Object
40	Shizuka Akahori	Measurement of Medial Elbow Joint Space Using Landmark Detection
41	Hidenori Fukaya	Symmetry of QCD at high temperatures
42	Yasutaka TANIGUCHI	Oblate-prolate shape-mixing in ²⁸ Si
43	Kotaro Murakami	First-principles Lattice QCD calculation of Hadron interactions
44	Yoshiko Hanada	Development of Optimization Algorithm for Order/Degree and Order/Radix Problems
45	Takunori Yasuda	The Computational Study on the Helix Formation inside the Ribosome Tunnel

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46	Yohei Miki	Toward Optimizing File IO on GPU Clusters
47	Hajime Fukushima	Development of radiation hydrodynamics code for simulations of star cluster formation
49	Kei Wakabayashi	Elucidating Language Emergence Mechanism by Evolutionary Multi-Agent Reinforcement Learning
50	Sho Ozaki	Generative AI based planning system for radiotherapy
51	Naohito Nakasato	Evaluation of Matrix Multiplication in Various Arithmetic Formats
52	Kazuyuki Kanaya	Critical point of finite-temperature QCD with heavy quarks
53	Osamu Tatebe	Research of Parallel I/O and Storage System
54	Ryunosuke Maeda	Formation of massive star clusters by gas collisions in the low-metal environment of the early Universe
55	Mitsuharu Uemoto	First-principles calculation of electronic and atomic scale dynamics in nanoscale materials
57	Hidehobu Yajima	Construction of big data for radiative transfer simulations of traumatic brain hemorrhage
58	Naohito Nakasato	Implementation and Evaluation of Reduced-/Extended-Precision BLAS Routines on PUs/GPUs/FPGAs
59	Takashi Kaneko	B meson physics from lattice QCD for search of new physics
60	Kazutaka Kimura	Understanding Primordial Star Formation : Resolving Internal Structure of Protostars
61	Minoru Otani	First-principles calculations of metal electrode catalysts for achieving a sustainable society
62	Kazunori Shibata	Band structures of SiO ₂ calculated by using SALMON
63	Taisuke Boku	Multi-Accelerator System, Programming and Application for HPC
66	Nobuo Hinohara	Nuclear structure calculation using reduced order modeling
67	Shunsuke Sato	Microscopic analysis on light-induced nonequilibrium electron dynamics
68	Kohji Yoshikawa	Direct Integration of the Boltzmann Equation with Collision Term: Applications to Self-Interacting Dark Matter and Dilute Gases
69	Shunsuke Yamada	Multiscale Maxwell-TDDFT calculation at oblique incidence
70	Quang Van Doan	Regional climate modeling using numerical simulations and artificial intelligence
71	Rumi Kodama	N-body simulations of MW galaxy encountering with a dwarf galaxy
72	Masao Mori	Evolution of local galaxies
73	Hiromitsu Shimoyama	Molecular Simulation Study for An Enzyme Design
74	Mitsuo Shoji	Development of quantum chemistry tools to elucidate biological chemical reactions
75	Norikazu Yamada	theta-dependence of the critical temperature in 4d SU(2) GT
76	Yasutaka Wada	Asynchronous Precision Adjustment for Approximate Computing on HPC Systems
77	Pragyan Shrestha	Arbitrary Landmark Detection in X-Ray Images
78	Chun Xie	Novel View Synthesis for Medical X-Ray Images using Progressive Conditional Diffusion Models
79	Hiroto Tadano	Accuracy improvement of the hierarchical parallel solver for saddle point problems by iterative refinement
80	Norihisa Fujita	Development of Unified Programming Environment for Various Accelerators
81	Takanori Akamatsu	Acceleration of RSPACE by GPU and investigation of electronic structures of device interfaces
82	Akihiro Shibata	Lattice Study on quark confinement and mass gap based on the gauge-covariant decomposition
83	Yoshihiro Kanamori	Computer Graphics Research based on Large-Scale Learning of Elemental Decomposition
84	Nobuhiko Kobayashi	Theory of electronic devices by large-scale first-principles charge transport calculations
85	Takeo Hoshi	Novel measurement data analysis by massively parallel data-driven science
86	Kiyu Fukui	Numerical study on novel Kitaev materials for quantum spin liquid states with exotic fractional excitations
87	Yoshiki Yamaguchi	Exploring Acceleration Opportunities for Large-Scale Sparse Matrix Computations via Direct Ultra-Precision Arithmetic Execution
88	Naoki Uemura	First-principles study of interfaces and grain boundaries in alloys
89	Ikuma Uchida	Video Retrieval Based on Similarity of Movement Trajectories in Team Sports