[Program]

Large-scale lattice QCD simulation and application of machine learning

November 23

09:25-09:30	Takeshi Yamazaki	Welcome address
09:30-10:15	Masaaki Tomii	Recent status of $K \to \pi\pi$ calculation by RBC/UKQCD
		with periodic boundary conditions
10:15-10:45	Coffee break	
10:45-11:30	Jonna Koponen	Muon g-2 program in Mainz
11:30-13:30	Lunch break	
13:30-14:15	Marco Cè	Master-field simulations and observable strategies for
		very large lattices
14:15-14:40	Kohei Sato	How to directly calculate pion charge radius without
		fitting
14:40-15:10	Coffee break	
15:10-15:55	James Zanotti	Hadron structure via the Feynman-Hellmann theorem
15:55-16:20	Ryutaro Tsuji	Axial structure of the nucleon in large-volume lattice
		QCD at the physical point
18:00-20:00	Banquet	

November 24

10:00-10:45	Xiaoyong Jin	Neural network gauge field transformation and its ap-
		plication in HMC
10:45-11:15	Coffee break	
11:15-12:00	Yukari Yamauchi	Complex control variates
12:00-12:10	Group photo	
12:10-14:00	Lunch break	
14:00-14:45	Christian Schmidt	On the analytic structure of the QCD phase diagram
14:45–15:10	Ken-ichi Ishikawa	Wilson-Clover quark solver implementation on the su-
		percomputer Fugaku
15:10-15:40	Coffee break	
15:40-16:05	Shinji Ejiri	Phase structure of finite temperature and density lattice
		QCD in the heavy quark region
16:05–16:30	Jishnu Goswami	Characterizing Strongly Interacting Matter at Finite
		Temperature: (2+1)-Flavor QCD with Mobius Domain
		Wall Fermions
16:30–17:00	Coffee break	
17:00-17:25	Yuki Nagai	Self-learning Monte Carlo method with equivariant
		Transformer

November 25

10:00-10:45	Christoph Lehner	Gauge-equivariant multi-grid networks
10:45-11:15	Coffee break	
11:15-12:00	Julian Urban	Properties and uses of approximate trivializing maps in
		lattice QCD
12:00-14:00	Lunch break	
14:00-14:25	Takeshi Yamazaki	Calculations using PACS10 configuration
14:25–14:50	Yoshihiro Michishita	Application of Reinforcement Learning to the develop-
		ment of theoretical analysis methods
14:50-15:20	Coffee break	
15:20-15:45	Masakiyo Kitazawa	Machine learning topological sector of Yang-Mills theory
15:45-16:15	Coffee break	
16:15–18:00	Discussion	