

SQAI-NCTS Joint Workshop 2026

Hiyoshi Campus, Keio University, Yokohama, Japan



Time	08/24 (Mon)	08/25 (Tue)	08/26 (Wed)	08/27 (Thu)	08/28 (Fri)
09:50-10:00	Welcome remark				
Session I	Chair: Ian McCulloch	Chair: Rico Pohle	Chair: Naoki Kawashima	Chair: Yusuke Nomura	Chair: Tsuyoshi Okubo
10:00 – 11:00	Lecture Philippe Corboz	Seung-Sup Lee	Lecture Norbert Schuch	Giuseppe Carleo	Fernando Brandão
11:00 – 11:20	Coffee break				
Session II	Chair: Ian McCulloch	Chair: Fengfeng Song	Chair: Naoki Kawashima	Chair: Akira Matsumoto	Chair: Wojciech Roga
11:20 – 11:40	Lecture Philippe Corboz	Seishiro Ono	Lecture Norbert Schuch	Alessandro Sinibaldi	Shimpei Yamaguchi
11:40 – 12:00		Donghoon Kim		Wei-Lin Tu	Chia-Ho Ou
12:00 – 12:20		Zhiyu Jiang		Yoshitomo Kamiya	Shih-Han Huang
12:20 – 14:00	Lunch		Poster Session with Light Refreshments	Lunch	
Session III	Chair: Pochung Chen	Chair: Chia-Min Chung	Free discussion	Chair: Ying-Jer Kao	Chair: Wei-Lin Tu
14:00 – 15:00	Atsushi Ueda	Mingpu Qin		Juraj Hasik	Nobuyuki Yoshioka
15:00 – 15:20	Yuto Sugimoto	Kouichi Okunishi		Chia-Min Chung	Wojciech Roga
15:20 – 15:40	Kaito Wada	Fengfeng Song		Akira Matsumoto	Tomohiro Hattori
15:40 – 16:00	Coffee break			Coffee break	Closing
Session IV	Chair: Shunsuke Furukawa	Chair: Wei-Lin Tu		Chair: Satoshi Morita	
16:00 – 17:00	Hyun-Yong Lee	Dario Poletti		Shinichiro Akiyama	

Poster Session

August 26, 12:20 – 14:00, Multi-Purpose Room 3

1	Sing Hong Chan	Extracting Conformal Data from Critical 2D Classical Models using Tensor-Network-Based Finite-size Scaling
2	Kiyeon Kim	Telum.jl: A Julia-based non-Abelian tensor library with exact Clebsch–Gordan data
3	Ashish Joshi	Quantum algorithm for simulating metabolic networks
4	Ryuhei Furuta	Neural-network quantum states for solving few-body problems: application to Efimov physics
5	Yuya Seki	Continuous-variable adiabatic quantum computation for combinatorial optimization via polyhedral domain decomposition
6	Shoichiro Kado	Transfer-Matrix Calculations for Classical Spin Systems Using Clifford-Augmented Matrix Product States
7	Jing Zhou	Non-Hermitian Magnon Dynamics in Floquet-Driven Antiferromagnets
8	Haruyuki Kawabe	Matrix Product Evolution: A Method for Simulating Quantum Circuits Using Tensor Networks
9	Rentaro Kuromi	From coupled spin-1/2 chains to an anisotropic spin-1 chain: A numerical test of Schulz's framework
10	Sayan Mukherjee	Equivariant Tensor Renormalization on Finite-Cell Voltage-Graph Lifts
11	Mizuki Hamada	A conformal field theory approach to error bounds for localized virtual purification
12	Yuheng Sui	Information-Density Threshold for Configuration-Space Truncation in the Periodic XX Chain
13	QianCan Chen	Symmetry-resolved quantic tensor-train approach to the hydrogen molecule
14	Jean-Baptiste Touchais	Robust propagating in-gap modes due to spin-orbit domain walls in graphene and Chiral chains with two valleys and disorder of finite correlation length
15	Jeong-Hyeok Cha	Disentangled Quantics Tensor Cross Interpolation
16	Yuji Okochi	An Origin of Kac-Type Long-Range Interactions
17	Junya Yokokura	Parallelization of isometric tensor networks
18	Ryoma Watanabe	Characterization of the Loop $O(n)$ Model Phase Diagram Based on the Global Properties of Phases via the Tensor Network Method
19	Haruki Saito	Data-Driven Estimation of Conserved Quantities and Symmetry Structures in Quantum Many-Body Systems
20	Teruhiro Ikeuchi	Time-Uniform Error Bound for Temporal Coarse Graining in Markovian Open Quantum Systems
21	Yen Chou	Applying a QTT Space–Time Tensor-Network Solver to Gross–Pitaevskii Dynamics
22	Yusuke Kajiwara	Classical Dimer Spin Liquids in Square and Square-Kagome Lattices
23	Haruki Shimizu	Nonorientable surfaces for non-Hermitian systems