

Session Program

24-28 Aug 2026

SQAI-NCTS Joint Workshop 2026

Poster

Hiyoshi Campus, Keio University, Yokohama, Japan, Fujiwara Hiroshi Hall, Kyoseikan
4-1-1 Hiyoshi, Kohoku-Ku, Yokohama, Kanagawa 223-8526, JAPAN

Wednesday 26 August

12:20

Poster: Poster Session with Light Refreshments

Poster Session |

Location: Hiyoshi Campus, Keio University, Yokohama, Japan, Multipurpose Room 3, Kyoseikan, 4-1-1 Hiyoshi, Kohoku-Ku, Yokohama, Kanagawa 223-8526, JAPAN

Extracting Conformal Data from Critical 2D Classical Models using Tensor-Network-Based Finite-size Scaling

Speaker

Sing Hong Chan

Telum.jl: A Julia-based non-Abelian tensor library with exact Clebsch-Gordan data

Speaker

Kiyeon Kim

Quantum algorithm for simulating metabolic networks

Speaker

Ashish Joshi

Parallelization of isometric tensor networks

Speaker

Junya Yokokura

Nonorientable surfaces for non-Hermitian systems

Speaker

Haruki Shimizu

A conformal field theory approach to error bounds for localized virtual purification

Speaker

Mizuki Hamada

Information-Density Threshold for Configuration-Space Truncation in the Periodic XX Chain

Speaker

Yuheng Sui

Symmetry-resolved quantic tensor-train approach to the hydrogen molecule

Speaker

Mr QianCan Chen

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

Speaker

Jean-Baptiste Touchais

Disentangled Quantics Tensor Cross Interpolation

Speaker

Mr Jeong-Hyeok Cha

An Origin of Kac-Type Long-Range Interactions

Speaker
Yuji Okochi

Transfer-Matrix Calculations for Classical Spin Systems Using Clifford-Augmented Matrix Product States

Speaker
Shoichiro Kado

Characterization of the Loop $O(n)$ Model Phase Diagram Based on the Global Properties of Phases via the Tensor Network Method

Speaker
Ryoma Watanabe

From coupled spin-1/2 chains to an anisotropic spin-1 chain: A numerical test of Schulz's framework

Speaker
Rentaro Kuromi

Data-Driven Estimation of Conserved Quantities and Symmetry Structures in Quantum Many-Body Systems

Speaker
Haruki Saito

Time-Uniform Error Bound for Temporal Coarse Graining in Markovian Open Quantum Systems

Speaker
Teruhiro Ikeuchi

Equivariant Tensor Renormalization on Finite-Cell Voltage-Graph Lifts

Speaker
Dr Sayan Mukherjee

Neural-network quantum states for solving few-body problems: application to Efimov physics

Speaker
Ryuhei Furuta

Non-Hermitian Magnon Dynamics in Floquet-Driven Antiferromagnets

Speaker
Dr Jing Zhou

Continuous-variable adiabatic quantum computation for combinatorial optimization via polyhedral domain decomposition

Speaker
Yuya Seki

Matrix Product Evolution: A Method for Simulating Quantum Circuits Using Tensor Networks

Speaker
Haruyuki Kawabe

Applying a QTT Space-Time Tensor-Network Solver to Gross-Pitaevskii Dynamics

Speaker
Yen Chou

14:00

Classical Dimer Spin Liquids in Square and Square-Kagome Lattices

Speaker

Yusuke Kajiwara