

Session Program

25-26 May 2026

The First RIKEN Quantum International Workshop on Frontiers of Quantum Computing Applications and Quantum-HPC Integration

Session 6

2F Administrative Headquarters (C00), RIKEN, Wako, Large Conference Room

Tuesday 26 May

15:40

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Session | **Location:** 2F Administrative Headquarters (C00), RIKEN, Wako, Large Conference Room | **Convener:** Tetsuo Hatsuda

15:40–16:20 **Large Scale Quantum Simulation with Hybrid QC-HPC Systems**

Speaker
Artur Garcia-Saez

16:20–16:40
Scalable Simulation of Quantum Many-Body Dynamics with OR-Represented Quantum Algebra

Speaker
Lukas Broers

16:40–17:00 **Phase Transitions in Parametrized Quantum Circuits**

Speaker
Xiaoyang Wang

17:00–17:20 **State-Vector Simulation of Quantum Computer on Supercomputers**

Speaker
Naoki Yoshioka

17:20–17:40
Noise-Stabilized Discrete Time Crystals on Digital Quantum Processors

Speaker
Kazuya Shinjo

17:40