

Session Program

18-19 May 2026

ICEPP-QUP Quantum Workshop 2026

Poster Session

Koshiba Hall, The University of Tokyo
7-3-1 Hongo, Bunkyo-ku Tokyo

Monday 18 May

16:25

Poster Session

Session | **Location:** Koshiba Hall, The University of Tokyo, 7-3-1 Hongo, Bunkyo-ku Tokyo

16:25-16:30

Simulating the Physics of Topological Defects in the Early Universe: From Cosmological Phase Transitions to Baryon-Number-Violating Processes

Speaker

Fumika Suzuki

16:30-16:35

Search for Hidden Photon Dark Matter Using Direct Excitation of Superconducting Qubits

Speaker

KARIN WATANABE

16:35-16:40

A Conceptual Quantum Architecture for Enhancing Urgent Volcanic Hazard Forecasting

Speaker

Dr Beatriz Martinez Montesinos

16:40-16:45

Dynamics of entanglement asymmetry for space-inversion symmetry of free fermions on honeycomb lattices

Speaker

Ryogo Hara

16:45-16:50

Analytical solution of the Schrödinger equation with $1/r^3$ and attractive $1/r^2$ potentials: Universal three-body parameter of mixed-dimensional Efimov states

Speaker

Yuki Ohishi

16:50-16:55

Error-Mitigated Quantum Simulation of Lattice Gauge Theory

Speaker

Toshiaki Kaji

16:55-17:00

Effects of complex interaction between polarons and localization phenomena

Speaker

Kyoka Tsunoda

17:00-17:05

A Novel Photolithography-only Fabrication Method of Manhattan Josephson Junctions for Transmon Qubits

Speaker

Koki Aoyanagi

17:05-17:10

Recent progress in the development of a galvanically contacted cavity-qubit hybrid system for dark matter search**Speaker**

Kan Nakazono

17:10-17:15

Nuclear Laser Spectroscopy of Thorium-229 toward the Development of a Nuclear Clock**Speaker**

Sayuri Takatori

17:15-17:20

Coherent Channel Estimation with Qumulant Expansion**Speaker**

Shu Komada

17:20-17:25

Development of a Single Microwave Photon Detector Using a Superconducting Qubit for Axion Searches**Speaker**

Chikara Kawai

17:25-17:30

The status of preparation of the solar axion search using TES with ^{57}Fe target at QUP**Speaker**

Daisuke Kaneko

17:45