



**December 8**

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**09:20**

Opening

**09:30–10:15**

*Lorenzo Maccone* (Pavia)

Geometric Event-Based Relativistic Quantum Mechanics

**10:20–11:05**

*Julio Gea-Banacloche* (Arkansas)

Quantum Measurement and Irreversibility

**Coffee Break**

**11:20–12:05**

*Yuji Hasegawa* (Hokkaido / Wien)

Fundamental Phenomena in Quantum Mechanics Studied with Neutrons

**Lunch**

**13:30–14:15**

*Yui Kuramochi* (Kyushu)

Wigner–Araki–Yanase Theorem for Quantum Measurements with Unbounded Conserved Observables

**14:20–15:05**

*Haruki Emori* (Hokkaido / iTHEMS)

Falsifiable Quantum Simulation: Experimental Probes of Error–Disturbance Relation, OTOC, and Arai–Miyamoto Inequality Using Quantum Computers

**Coffee Break**

**15:20–16:05**

*Etsuko Ito* (Kyoto)

New Developments in Theoretical Particle Physics: Toward Quantum Computation

**16:10–16:55**

*Son Nguyen Thi Kim* (Hanoi)

Fuzzy-Fractional Semigroup Frameworks for Uncertainty Modeling in Schrödinger-Type Evolution



## December 9

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### 09:30–10:15

*Tatsuhiko Ikeda* (ZEN / RQC / Hokkaido)

From Floquet Hamiltonians to Quantum Simulation: Exploring the Time Structure of Driven Systems

### 10:20–11:05

*Fumio Hiroshima* (Kyushu)

Time Operators Associated with Quantum Harmonic Oscillators

### Coffee Break

### 11:20–12:05

*Keiji Nakatsugawa* (Tokyo)

Caldeira-Leggett Quantum Time Crystals

### Lunch

### 13:30–14:15

*Eric Galapon* (Philippine)

Temporal and Non-Temporal Observables: A Framework Emerging from Quantum Time of Arrival Operators

### 14:20–15:05

*Alessandro Coppo* (Rome)

Quantum and Classical Dynamics from Entanglement with a Glimpse near Black Holes

### Coffee Break

### 15:20–16:05

*Kazuhiro Yamamoto* (Kyushu)

Is Gravity Quantum? — From Thought Experiment to Optomechanical Test

### 16:10–16:55

*Daniel Braak* (Augsburg)

A Classification Scheme for Continuous Spectra

### 17:00–20:00

Social Dinner at Nishijin Plaza



**December 10**

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**09:30–10:15**

*Akito Suzuki* (Komatsu)

Weak Limit Theorem for 2D Quantum Walks: Seeking Genuine 2D Konno Distribution

**10:20–11:05**

*Saori Yoshino* (Yokohama)

Limit Theorem for an Interpolating Walk between Random Walks and Quantum Walks on the One-Dimensional Lattice

**Coffee Break**

**11:20–12:05**

*Serge Richard* (Nagoya)

Time Delay for One-Dimensional Anisotropic Quantum Walks

**Lunch**

**13:30–14:15**

*Itaru Sasaki* (Shinshu)

TBA

**14:20–15:05**

*Sahel Ashhab* (NICT)

Time-Optimal Control of Quantum Operations for Quantum Computing

**Coffee Break**

**15:30–16:15**

*Hiroyasu Tajima* (Kyushu)

Universal Tradeoff Relations between Resource Cost and Irreversibility of Channels: General-Resource Wigner-Araki-Yanase Theorem and Beyond



## December 11

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**09:30–10:15**

*Cid Reyes Bustos* (NTT)

Heat Kernel and Time Evolution for Quantum Rabi Models

**10:20–11:05**

*Satoshi Tanda* (Hokkaido)

TBA

**Coffee Break**

**11:20–12:05**

*Masanao Ozawa* (Nagoya)

Time in a Macroscopic Extension of the Quantum Harmonic Oscillator

**12:10**

Closing