

**Session Program**

**9-11 Dec 2025**

**Towards a Quantum Culture: The Different  
Interpretations of Quantum Mechanics**

***Quantum mechanics***

# Tuesday 9 December

14:30

## Quantum mechanics

**Session** | **Convener:** Leonardo Gariboldi

14:30–15:10

### The Transforming Force of Mathematics: From Quantum Jumps to Quantum Mechanics to Quantum Culture, with Werner Heisenberg

**Speaker**

Plotnitsky Arkady

15:10–15:50

### Heisenberg's 1925 Paper and the Need for a Reinterpretation of the Concept of Trajectory

**Speakers**

Marco Giliberti, Luisa Lovisetti

15:50

# Wednesday 10 December

09:00

## Quantum mechanics

Session | Convener: Enrico Giannetto

09:00–09:40

### Quantum Mechanics, the Universe, and the Multiverse

#### Speaker

Helge Kragh

09:40–10:20

### Interpreting Quantum Mechanics Relationally

#### Speaker

Carlo Rovelli

10:20

10:50

## Quantum mechanics

Session | Convener: Nadia Robotti

10:50–11:30

### Enigmas of the $sp^{\hbar}in^{\hbar}x$

#### Speaker

Jean-Marc Lévy-Leblond

11:30–12:10

### The Long Quantum Revolution

#### Speaker

Jürgen Renn

12:10

15:00

## Quantum mechanics

Session | Convener: Luisa Lovisetti

15:00–15:40

### Constructivism and the Foundations of Quantum Mechanics

#### Speaker

Paolo Perinotti

15:40–16:20

### Perspectives on Recent Developments of de Broglie's Realistic and Bohr's Complementary Interpretation of the Wave-Particle Duality

#### Speaker

Gino Tarozzi

16:20

16:50

## Quantum mechanics

Session | Convener: Salvatore Esposito

16:50–17:30

### Pauli's Interpretation of Quantum Physics

#### Speaker

Enrico Giannetto

17:30–18:10

### Quantum Theory and the Two Foundational Dichotomies

#### Speaker

Antonino Drago

18:10

## Thursday 11 December

09:00

09:40

### Quantum mechanics

**Session** | **Convener:** Enrico Giannetto

09:00–09:40

#### **Fermi, Majorana and the First Developments of the New Quantum Theory in Italy**

**Speaker**

Salvatore Esposito