

Chair: Markus Arndt

9:00–9:45

KEYNOTE LECTURE

Yakir Aharonov (*Tel Aviv University, IL, and Chapman University, Orange, USA*)

Finally making sense of the double-slit experiment

9:45–10:15

Jeff Tollaksen (*Chapman University, Orange, USA*)

A Completely Top-Down Hierarchical Structure in Quantum Mechanics

10:15–10:30

Coffee break

10:30–11:00

Nicolas Gisin (*University of Geneva, CH*)

Non-determinism in Newtonian mechanics and the classical “measurement” problem

11:00–11:20

Thomas Filk (*University of Freiburg, DE*)

A quantum ontology based on a relational notion of space

11:20–11:40

Ana María Cetto (*Universidad Nacional Autónoma de México, MX*)

Quantum interconnectedness and induced nonlocality

11:40–12:00

Tim Palmer (*University of Oxford, UK*)

Does Bohmian Theory Have to Be Nonlocal? New Directions for Analysing the Bell Theorem

12:00–13:30

Lunch break

Chair: Nicolas Gisin

13:30-14:15

KEYNOTE LECTURE

Max Tegmark (*Massachusetts Institute of Technology, Cambridge, USA*)

Why quantum observers find lower entropy after observation and in our early universe?

14:15–14:45

Bei-Lok Hu (*University of Maryland, College Park, USA*)

Equivalence Principles for Quantum Systems

14:45–15:05

Ward Struyve (*University of Munich, DE*)

Must space-time be singular?

15:05–15:20

Coffee Break

Chair: Jeff Tollaksen

15:20–15:50

Anthony Aguirre (*University of California, Santa Cruz, USA*)

Observer-dependent entropy and the Second Law

15:50–16:10

Hans-Thomas Elze (*University of Pisa, IT*)

On the question of ontological states in simple (pre-)quantum models

16:10–16:30

Maurice de Gosson (*University of Vienna, AT*)

What happens to quantum states if Planck’s constant changes?

16:30–16:45

Coffee Break

16:45–17:30

KEYNOTE LECTURE

Tim Maudlin (*New York University, USA*)

Ontological Clarity, Electromagnetism and the Aharonov-Bohm Effect

from 17:30

Open Evening