

## Program

Tuesday 18.10 2022 **The Many-Worlds Ontology**

Venue: [Porter Auditorium](#), 6 Klauzner St., Tel Aviv.

9:00 Coffee and registration

Chairman: Guy Hetzroni

9:30 **Yaron Oz, Lev Vaidman**

Welcome and setting the goals

10:10 **Valia Allori**

Many-Worlds and Scientific Realism

11:00 Coffee Break

11:30 **Francois-Igor Pris**

A Wittgensteinian demystification of an Everettian interpretation of quantum mechanics

12:00 **Marcus Arvan**

Reinterpreting the Many-Worlds Interpretation of Quantum Mechanics: Dead Reckoning and the P2P Simulation Hypothesis

12:30 **Nathan Argaman**

Future-Input Dependence as an Interpretation of Quantum Mechanics

13:10 Lunch

Chairman: Simon Saunders

14:30 **Nicolas Gisin**

Many-Worlds in Classical Mechanics

15:10 **Paul Tappenden**

Making sense of Everettian fission without self-location uncertainty

15:50 Coffee Break

16:20 **Eddy Keming Chen**

Strong Determinism

17:00 **Open Discussion** **Everyone is welcome\*** **Nathan Argaman,**

The MWI explains well the evolution of the world we experience but does not single it out from numerous parallel worlds. How important is this weakness?

\*For <5 minutes presentation on this or related question, [send an email](#) before the session

Wednesday 19.10 2022 **What is a “world” in the MWI?**

Venue: [Porter Auditorium](#), 6 Klauzner St., Tel Aviv.

9:00 Coffee and registration

Chairman: Ori Belkind

9:30 **Tim Maudlin**

Local Beables, Wave Function Monism, and Empirical Content

10:20 **Alyssa Ney**

Locality and the Metaphysics of Many Worlds

11:00 Coffee Break

11:30 **Mateus Araújo**

Bell's Theorem, Many-Worlds, and Quantum Key Distribution

12:00 **Per Arve**

The Ontology of the Many-Worlds Theory

12:30 **Panel Discussion: The MWI world in 3D**

Simon Saunders, Lev Vaidman, Tim Maudlin, Alyssa Ney

13:10 Lunch

Chairman: Tim Maudlin

14:30 **Renato Renner**

A Theorem about Many-Worlds Branches

15:20 **Mordecai Waegell**

Unambiguously Local Quantum Physics in Spacetime

15:50 Coffee Break

16:20 **Ovidiu Cristinel Stoica**

The Relation between Wavefunction and 3D Space

17:00 **Open Discussion** Everyone is welcome\*

Is "All macroscopic objects are well localized in 3D" a good definition of a world in the MWI? Can you think of an alternative characterization?

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Thursday 20.10 2022 **Probability in the MWI**

Venue: [Porter Auditorium](#), 6 Klauzner St., Tel Aviv.

9:00 Coffee and registration

Chairman: Stephan Hartmann

9:30 **Simon Saunders**  
Decoherence-Based Branch-Counting implies the Born Rule

10:20 **Dustin Lazarovici**  
Why Everett Solved the Probability Problem

11:00 Coffee Break

11:30 **Avshalom Elitzur**  
Do Parallel Worlds Leave Causal Traces in One Another?

12:10 **Jerome Romagosa**  
Unlucky Branches: (Dis)confirmation in Many Worlds

12:35 **Zhongao Lu**  
Personal Identity and Uncertainty in Everett's Multiverse

13:10 Lunch

Chairman: Guy Hetzroni

14:30 **David Papineau**  
How the MWI Matters: Relief, Regret and Distributive Justice

15:20 **Michael Cuffaro**  
Everett, the Informational Interpretation, and the Open Systems View

16:00 Coffee Break

16:30 **Open Discussion** **Everyone is welcome\***  
Probability in the MWI.

17:15 Group photo

17:30 The Steinhardt Museum of Natural History

18:30 Refreshments (\*UPDATE: [Melamed auditorium](#), Shenkar building)

19:00 **Panel discussion: free will, time, quantum, and many worlds**  
**Yakir Aharonov, Valia Allori, Nicolas Gisin, Renato Renner, David Wallace**  
Chairman: **Yaron Oz**

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Friday 21.10 2022 **MWI, cosmology and more**

Venue: [Porter Auditorium](#), 6 Klauzner St., Tel Aviv.

9:00 Coffee

Chairman: Lorenzo Maccone

9:30 **Don Page**

Possibilities for Probabilities

10:10 **Erik Curiel**

What Happens to EPR Correlations among the Many Worlds in Curved Spacetime?

10:40 Coffee Break

11:10 **Phil Pickering**

Nonseparability in the Many Worlds Interpretation

11:40 **Open Discussion** **Everyone is welcome\***

Can gravity and quantum peacefully coexist?

12:00 **Lunch, Beer and Posters**

**Per Arve** Locality, decoherence and why dBB is actually MWI

**Eyal Buks** Disentanglement and a nonlinear Schrödinger equation

**Kathrin Gerhard** Is there a consistent past in quantum theory?

**Zuchamo Nsungbemo Ezung** Quantum Probability and the Nature of Reality

**David Oaknin** A single world with many faces: geometric phases in gauge theories

**Vicent Picó-Pérez** Intrinsic Properties in Bohmian Mechanics and Many-Worlds Theories

**Mark Rubin** Preclusion as the Explanation of Everettian Probability

**Paul Tappenden** Everettian Fission with Particle Trajectories

**Carlotta Versmold, Florian Huber, Jan Dziewior, Elina Köster, Jasmin**

**Meinecke and Harald Weinfurter** Paths through the double slit

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Sunday 23.10 2022 **MWI, Decoherence and More**

Venue: [Jaglom Hall](#), Senate Building, Tel Aviv University

9:00 Coffee

Chairman: David Papinenau

9:30 **David Wallace**

The Sky is Blue, and Other Reasons Quantum Theory is Not Underdetermined

10:30 **Guy Hetzroni**

Consensus, theoretical virtues and interpretation: lessons from past debates

11:00 Coffee Break

11:30 **Jan Dzwior**

Variants of Locality and Causality in Many Worlds

12:00 **Tomasz Bigaj**

Consistent histories and many worlds

12:30 **From invited speakers who could not come**

Why the MWI is not in the consensus?

**Jeffrey Barret, Jean Bricmont**

13:10 Lunch

Chairwoman: Vishnya Maudlin

14:30 **Lorenzo Maccone**

Quantum Time, Quantum Spacetime and Time Measurements

15:10 **Open Discussion** **Everyone is welcome\***

Does decoherence with the environment play any role in the MWI?

16:20 **Jaffa tour**

19:00 **Banquet:** [Regina restaurant](#)

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Monday 24.10 2022 **Alternative Formalisms, Teleportation and more**

Venue: [Jaglom Hall](#), Senate Building, Tel Aviv University

9:00 Coffee

Chairman: Andrew Jordan

9:30 **Yakir Aharonov**  
Solving the Measurement Problem without Many Worlds

10:20 **Charles Bédard**  
Teleportation Revealed

11:00 Coffee Break

11:30 **Samuel Kuypers**  
Everettian Relative States in the Heisenberg Picture

12:00 **Mark Rubin**  
Locality and Deutsch-Hayden Quantum Field Theory

12:30 **Andrew Jordan**  
Quantum Erasing the Memory of Wigner's Friend

13:10 Lunch

Chairman: Erik Curiel

14:30 **Paolo Faglia**  
Non-Separability, Locality and Criteria of Reality in Everettian  
Quantum Mechanics

15:00 **From invited speakers who could not come**  
Why the MWI is not in the consensus?  
**Tony Leggett, Chris Fuchs, Jacques Pienaar, Phillip Grangier, Barry Loewer,  
Aurélien Drezet, Chip Sebens, Philip Pearle, Shan Gao, Sean Carroll, Alastair  
Wilson, Adrian Kent, David Deutsch.**

15:50 Coffee Break

16:20 **From invited speakers who could not come**  
Why the MWI is not in the consensus?

17:00 **Open concluding remarks Everyone is welcome\***  
Why the MWI is not in the consensus?