

# The Quantum Reconstruction Program and Beyond

What it Is, Why it Matters, Where Next?

August 1-3, 2023

University of Graz, Austria

Organizing Team: Philipp Berghofer & Philip Goyal

Venue: HS 05.12, Universitätsplatz 5

If you want to attend in person: All are welcome, no registration required.

If you want to attend online:

<https://albany.zoom.us/meeting/register/tJwuceCurzsuEtfXtRropaWT-vo1sJT05d0d>

**You must click the link and complete the online registration process before August 1.**

Note: Online participants will not have the opportunity to raise questions in the Q&As

## August 1

- 09.15            Opening Address (Philipp Berghofer & Philip Goyal)
- 10.00-11.00    **Markus Müller** (IQOQI): *Quantum Theory as a Principle Theory of Probability  
and its Relation to Spacetime*
- 11.00-11.30    Coffee Break
- 11.30-12.30    **Muhammad Hamza Waseem** (University of Oxford) & **Bob Coecke**  
(Quantinuum): *Picturing Interpretations of Quantum Physics*

- 12.30-13.30 **Johannes Fankhauser** (University of Oxford): *Quantum Uncertainty as a Fundamental Limit to Nature's Predictability*
- 13.30-15.00 Lunch
- 15.00-16.00 **Philipp Höhn** (OIST): *TBA*
- 16.00-16.30 Coffee Break
- 16.30-17.30 **David Ellerman** (University of Ljubljana): *A New Information-Theoretic Approach to Quantum Mechanics*
- 17.30-18.30 **Daniel Shanahan** (Independent Researcher): *Restructuring the de Broglie Wave*
- 19.00 Dinner

August 2

- 10.00-11.00 **Michael Cuffaro** (LMU): *Quantum Mechanics on an Informational (or Neo-Bohrian) Approach*
- 11.00-11.30 Coffee Break
- 11.30-12.30 **Jessica Oddan** (University of Waterloo): *Reconstructions of Quantum Theory: Genuine Explanation and Moderate Realism*
- 12.30-13.30 **Lucy Mason** (KCL): *Quantum versus Classical: Emergence in the Information Framework*
- 13.30-15.00 Lunch
- 15.00-16.00 **Iulian Toader** (University of Vienna): *The Meaning of Reconstructed Quantum Mechanics*
- 16.00-16.30 Coffee Break
- 16.30-17.30 **Stefan Weigert** (University of York): *A Quantum Theory with Non-collapsing Measurements*
- 17.30-18.30 **Yang Yu** (SUNY Albany): *The Structure of Quantum Questions*

19.00 Dinner

August 3

10.00-11.00 **Michel Bitbol** (École Normale Supérieure): *TBA*

11.00-11.30 Coffee Break

11.30-12.30 **Harald Wiltsche** (Linköping University): *Transcendental Approaches to QM. Lessons from Bohr (and Bitbol)*

12.30-13.30 **Michele Dall'Arno** (TUT): *On the Role of SIC Structures in the Quantum Inferential Process*

13.30-15.00 Lunch

15.00-16.00 **Ruediger Schack** (RHUL): *From the Quantum Formalism to QBism and back to the Quantum Formalism*

16.00-16.30 Coffee Break

16.30-17.30 **John DeBroda** (UNM): *Deconstructing Dynamics in QBism*

17.30-18.30 **Matt Weiss** (University of Massachusetts Boston): *How Quantum Is QBism?*

19.00: Dinner