

How Quantum Mechanics changed Philosophy

Bergische Universität Wuppertal, 16 and 17 January 2020

PROGRAM

Thursday, 16 January

9:00-9:05 Welcome

9:05-10:05 Yemima Ben-Menahem (Hebrew University of Jerusalem): Revisiting the realism/instrumentalism controversy in the light of quantum mechanics

10:05-10:35 Break

10:35-11:20 Matthias Egg (Universität Bern): Textbook quantum mechanics and the problem of ontological commitment

11:20-12:05 Daniel Kuby (University of Konstanz): Feyerabend's re-evaluation of scientific practice: Quantum mechanics, realism and Niels Bohr

12:05-12:50 Marij van Strien (Bergische Universität Wuppertal): How quantum mechanics changed philosophy of science: Feyerabend vs. Kuhn and Lakatos

12:50-14:15 Lunch

14:15-15:15 F. A. Muller (Erasmus University Rotterdam & Universiteit Utrecht): Quantum mechanics: The greatest underdetermination story ever told & the greatest onslaught on Kant's Kritik der Reinen Vernunft ever told!

15:15-15:35 Break

15:35-16:20 Hannes Van Engeland (KU Leuven): Quantum mechanics and French philosophy of science: The case of Gaston Bachelard

16:20-17:05 Oliver Passon (Bergische Universität Wuppertal): Kurt Gödel on the interpretation of quantum mechanics

17:05-17:15 Break

17:15-18:15 Michael Esfeld (University of Lausanne): The philosophical importance of Bell's theorem

Friday, 17 January

9:00-9:45 Richard Healey (University of Arizona): Quantum mechanics has not changed philosophy enough

9:45-10:30 Lev Vaidman (Tel Aviv University): The impact of quantum mechanics on philosophy, and what it should be

10:30-11:00 Break

11:00-11:45 Benedetta Spigola (University of Rome “Roma Tre”): Cassirer, quantum mechanics, and two concepts of causality.

11:45-12:30 Michael Cuffaro (University of Utrecht and LMU Munich): Quantum mechanics and Kantian philosophical method: an exploration of the views of Grete Hermann

12:30-13:45 Lunch

13:45-14:45 Jan Faye (University of Copenhagen): Quantum mechanics and human experience

14:45-15:05 Break

15:05-15:50 Lukas Mairhofer (Universität Wien): Ways of observing

15:50-16:35 Philipp Berghofer (University of Graz): Quantum mechanics, perspectivism, and the phenomenological tradition

16:35-17:00 Break

17:00-18:00 Juha Saatsi (University of Leeds): Quantum theory, progress and scientific realism