

SCHEDULE OF TALKS QTWO III

ALL LUNCHEES AND DINNERS WILL BE SERVED AT ZIF! FOR THE THURSDAY DINNER WE SHALL COLLECT 25 EUROS PER PERSON, WHICH WILL BE COLLECTED AT REGISTRATION ON MONDAY FROM 9.00-10.00 (MC-MEMBERS) AND 13.00-15.00(ALL PARTICIPANTS).

- **Monday: 10.00-12.00 nonpublic MC-meeting**

Lunch

- **Monday: Philosophy of Science**

14.45-15.00 Welcome address

15.00-16.30 What theories qualify as quantum theories without observers and why do we want such theories? (Albert/Maudlin)

Coffee Break

17.00-17.45 Does a physical theory need an interpretation? (Esfeld)

17.45-19.00 General Discussion of the talks and: What makes quantum theory special? (Chair: Duerr)

Reception and Dinner

- **Tuesday: QTWO and relativity (long day!)**

9.00-9.40 GRW-collapse models (Ghirardi)

9.40-10.20 Bohmian Mechanics (Teufel)

Coffee Break

11.00-11.40 Compatible Quantum Theory (Hohenberg)

11.40-12.20 The Path Integral Interpretation of Quantum Mechanics (Dowker)

Lunch

15.00-15.40 Growth of decoherence (Omnès)

Coffee Break

16.00-16.40 Bell and Nonlocality (The argument and the conclusion) (Bricmont)

16.40-17.20 Relativistic BM (Struyve)

17.20-18.00 Relativistic GRW (Tumulka)

Refreshments and sandwiches/snacks

18.40-19.20 Causal Set Theory (Sorkin)

19.20-20.20 General Discussion of the talks (Chair: Kiessling)

- **Wednesday: Experiments on Foundations of QM**

9.00-9.40 Probing macroscopic superpositions (Theory) (Bassi)

9.40-10.20 Weak Measurements (Theory) (Wiseman)

Coffee Break

11.00-11.40 Probing large entanglement (Gisin)

11.40-12.20 Bell's inequalities experiments (Weinfurter)

Lunch

15.00-15.40 weak measurements of trajectories (Rozema)

Coffee Break

16.20-17.00 experiments on macroscopic superpositions (Ulbricht)

17.10-17.40 Tests of subatomic QM (Hiesmayr)

17.40- 19.00 general discussion of experiments and QM (Chair: Catalina Curceanu)

Conference Dinner

- **Thursday: Meaning of the wave function**

9.00-9.40 The ontic character of the wave function (Pusey)

9.40-10.20 Different kinds of wave functions (Oriols)

Coffee Break

11.00-11.40 Do we finally understand Quantum Mechanics? (Fröhlich)

11.40-12.00 discussion to be continued in the afternoon

Lunch

15.00-16.30 Round Table on the role of the wf (speakers of the day, Ghirardi, Goldstein, Zanghi)

Coffee Break

17.00-19.00 young researcher session. 25-minutes talks + 5 minutes discussion

Yearsley: Decoherent Histories and Bohmian Mechanics

Colbeck: The free choice assumption

Vassallo: A Primitive Ontology Approach to Canonical Quantum Gravity

Hubert: Dispositions in Bohmian Mechanics

Dinner

- **Friday: Résumé**

9.00-10.00 Appraisal of Bell and his work on foundations of QM (Norsen)

Coffee Break

10.40-12.00 Retrospective and Perspective on QTWO (Goldstein)

12.00 Closing of the conference

Lunch