Conceptual Foundations of QFT

Workshop Schedule - IQOQI Vienna - 1-3 June 2026

Monday 01/06

Time	Session
9:00-9:30 AM	Reception / Coffee
9:30-11:00 AM	**Local Measurement and Relativistic Causality I** Christopher Fewster - "State updates in quantum field theory” Doreen Fraser - "No superluminal causal influence in QFT with a local measurement theory” Eduardo Martín-Martínez - "What happens when one measures a quantum system in a relativistic setting?"
11:00-11:30 AM	Coffee Break / Posters
11:30 AM-12:30 PM	Discussion
12:30-2:00 PM	Lunch Break
2:00-3:30 PM	**Gravity and interpretations of Relativistic Quantum Theory** Robert Wald - "Black Holes Decohere Quantum Superpositions” Lajos Diósi - "A healthier stochastic semiclassical gravity: world without Schrödinger cats” Guido Bacciagaluppi - "The Relativity of Branching"
3:30-4:00 PM	Coffee Break / Posters
4:00-5:00 PM	Discussion

Tuesday 02/06

Time	Session
9:15-11:00 AM	**Historical and contemporary perspectives on Foundations of Quantum Field Theory** Alexander Blum - "Origins of Axiomatic QFT” James Fraser - "How far can we go with divergent series?” Katarzyna Rejzner - "Thoughts on semilocal quantum physics"
11:00-11:30 AM	Coffee Break / Posters
11:30 AM-12:30 PM	Discussion
12:30-2:00 PM	Lunch Break
2:00-3:30 PM	**Local Measurement and Relativistic Causality II** Miklós Rédei - "Facets of relativistic locality” Noel Swanson - "Local Measurement and the Type III Property in Algebraic QFT” Rainer Verch - "Probing non-equilibrium of relativistic quantum dynamical systems"
3:30-4:00 PM	Coffee Break / Posters
4:00-5:00 PM	Discussion

Wednesday 03/06

Time	Session
9:30-11:00 AM	**The Measurement Problem in Relativistic Quantum Theory** Charis Anastopoulos - "What happens between in and out? Events do." Emily Adlam - "Do we have any viable solution to the measurement problem?" Adrian Kent - "Quantum Reality from Late Time Boundary Conditions: Problems and Possibilities"
11:00-11:30 AM	Coffee Break / Posters
11:30 AM-12:30 PM	Discussion
12:30-2:00 PM	Lunch Break
2:00-3:00 PM	**Realism about Effective Field Theories** David Wallace - "Quanta and Particles in Effective Field Theory" Jeremy Butterfield - "Renormalisation and Realism"
3:00-4:00 PM	Discussion & Concluding Remarks