Workshop Paradigms of Modern Physics

Program

Time	Saturday, March 22nd	Sunday, March 23nd	Monday, March 24th	Tuesday, March 25th	Wednesday, March	Thursday, March 27th	Friday, March 28th	Saturday, March 29th
8:00 - 9:00		Breakfast	Breakfast	Breakfast	Breakfast	Breakfast	Breakfast	Breakfast
9:00 - 10:00		What is not negotiable in model building and theory design? **Juliane Klatt**	A physical theory of mathematical objects - a tentative idea. **Leonhard Horstmeyer**	Black holes, information, and entropy **Jan-Hendrik Treude**	The importance of ontology in the formulation of a relativistic quantum theory **Matthias Lienert**	The Paradigm of Numerical Simulations **Adrian Oeftinger**	The Role of Axiomatization in Physics **Jens Salomon**	Closing Session
10:10 - 11:10		Causality: Implementation and Consequences **Lisa Glaser**	Ontic versus epistemic paradigms in the foundations of quantum theory **Ryszard Kostecki**	QT, QFT and GR united? Causal Fermion Systems: idea and paradigms behind **Johannes Kleiner**	Initial conditions, probability, and naturalness **Linda Linsefors**	Time - Can physics solve the problems in philosophy? **Robin Lorenz**	Optimal Transport as fundamental structure of nature **Bernadette Lessel**	Departure
11:30 - 12:30		Bare Quantum Theory, Emergence and the State Equivalence Principle **Andreas Oliver Tell**	Primitive Ontology and Spacetime Theories: The Importance of Being Clear from the Beginning **Antonio Vassallo**	The Variational Principle - mathematics and ontology behind **Franz Gmeineder**	Lunch (Brotzeit)	The Block Universe **Enno Fischer**	Caged by the quantum paradigm **Markus Penz**	
13:00		Lunch (Brotzeit)	Lunch (Brotzeit)	Lunch (Brotzeit)	Hike and Discussion afterwards	Lunch (Brotzeit)	Lunch (Brotzeit)	
14:00 - ...	Arrival	Discussion Sessions	Nonlocality, Walls of Fire, and Armageddon **Robert Schuhmann** Discussion Sessions	Discussion Sessions		Discussion Sessions	Discussion Sessions	
19:30	Dinner	Dinner	Dinner	Dinner	Workshop Dinner	Dinner	Dinner	
20:30	Evening gathering	Evening gathering	Evening gathering	Evening gathering	Evening gathering	Evening gathering	Evening gathering	

Further information is available at the workshop website: para-mod-phys.jkleiner.de.