## EmQM17 | Day 1: Thursday, October 26th 2017

	Chair: Jan Walleczek
8:45-9:00	Welcome Address
9:00-9:30	Jan Walleczek (Phenoscience Laboratories, Berlin, DE)
	Towards Ontology of Quantum Mechanics and the Conscious Agent
9:30–10:15	KEYNOTE LECTURE
	Basil Hiley (University of London, UK)
10:15–10:30	Bohm, Physicist Philosopher: The Battle to find a Satisfactory Quantum Ontology Coffee break
10:30–11:00	Howard Wiseman (Griffith University, Brisbane, AU)
10.50-11.00	Relativistic Causality and Bell's Theorems
11:00–11:30	Shan Gao (Shanxi University, CN)
	A Particle Ontological Interpretation of the Wave Function
11:30-12:00	Roderich Tumulka (University of Tübingen, DE)
	Bohmian Trajectories as the Foundation of Quantum Mechanics
	and Quantum Field Theory
12:00–13:30	Lunch break
	Olaria Harras IMPagasa
13:30–14:15	Chair: Howard Wiseman KEYNOTE LECTURE
13.30-14.13	Aephraim Steinberg (University of Toronto, CA)
	Experimental studies of quantum reality
14:15–14:35	Chuan-Feng Li (University of Science and Technology of China, Hefei, CN)
	Experiment on nonlocal steering of Bohmian trajectories
14:35-15:05	Lev Vaidman (Tel Aviv University, IL)
	Are expectation values and weak values properties of single quantum systems?
15:05–15:20	Coffee break
15:20–15:50	Herman Batelaan (University of Nebraska-Lincoln, USA)
	Quantum forces and non-dispersivity in the Aharonov-Bohm effect
15:50–16:10	Peter Barker (University College London, UK)
40-40-40-00	Weak Measurements of Atomic Momentum
16:10–16:30	Robert Flack (University College London, UK)
16:30–16:50	Observation of the weak value of spin using a metastable form of helium Markus Arndt (University of Vienna, AT)
10.30-10.30	What quantum-interference assisted molecule metrology can tell us about
	reality and non-locality
16:50–17:05	Coffee Break
	Chair: Robert Flack
17:05–17:50	KEYNOTE LECTURE
	Matthew Leifer (Chapman University, Orange, USA)
47.50.40.00	The Problem of Fine-Tuning in Quantum Theory
17:50–18:20	Basil Hiley (University of London, UK)
18:20–18:50	Aspects of Non-commutative Geometry: Deformation Quantum Mechanics
10.20-10.30	Gerhard Grössing (Austrian Institute for Nonlinear Studies, Vienna, AT) Vacuum Landscaping: Cause of Nonlocal Influences without Signalling
19:00–21:00	Poster Presentations, Dinner Buffet, Discussion
10.00 21.00	1 deter 1 recontations, Dirinor Duriet, Discussion