



The quantum state as the memory of a quantum system

a physical inquiry and a metaphysical appraisal

Date

01-03 May, 2014

Location

01 May: Anthropole 2064

02-03 May: Unithèque, Conference Room in the Library (BCU)

Keynote Speakers

Guido Bacciagaluppi (Aberdeen) Jeremy Butterfield (Cambridge, UK) Nicolas Gisin (Geneva) Nino Zanghì (Genova)

Thursday 01 May (ANTH 2064)

17:00	Esfeld/Savona/Vassallo	Welcome address		
17:15	Nicolas Gisin	Quantum nonlocality and realistic physics theories		
18:15	Jeremy Butterfield	Classifications of quantum states		
19:30		Dinner (Restaurant de Dorigny)		

Friday 02 May (Unithèque)

09:00	Mario Hubert (UNIL)	Are Classical States Lagrangian or Hamiltonian?
10:00	Pui Him Ip (London)	The ontology of Hamilton-Jacobi theory as an
		argument in favour of a dispositionalist view of the
		quantum state
11:00		Coffee Break
11:30	Michael Esfeld	Primitive ontology first
12:30		Lunch (on campus)
14:00	Nino Zanghì	The big wave function and the small wave function

Organizers

Michael Esfeld (UNIL) Vincenzo Savona (EPFL) Antonio Vassallo (UNIL) supported by CROSS and the Phyiscs Section of EPFL





15:00	Davide Romano (UNIL)	Decoherence and Bohmian Mechanics
16:00		Coffee Break
16:30	Vincent Lam (UNIL)	Primitive ontology and unitary inequivalence
17:30	Andrea Oldofredi	Bohmian-type QFT and Malament/Haag no-go
	(UNIL)	theorem
19:30		Dinner (Le Pinocchio)

Saturday 03 May (Unithèque)

09:00	Guido Bacciagaluppi	The misleading equivalence of decoherence and
		branching
10:00	Matthias Egg (UNIL)	The role of the quantum state in the GRW matter
		density theory
11:00		Coffee Break
11:30	Antonio Vassallo (UNIL)	What is a quantum-gravitational state?
12:30	Vincenzo Savona	Concluding Remarks
13:00		Lunch (Restaurant de Dorigny)

Vincenzo Savona (EPFL) Antonio Vassallo (UNIL)





Practical Information

How to reach the university campus:

- From the Lausanne railway station Lausanne-Gare:
 Take the metro M2 going to Croisettes, change at the station Lausanne-Flon.
 Then take the metro M1 going to Renens-Gare.
 Get off at UNIL-Mouline.
- From the Renens railway station Renens-Gare:
 Take the metro M1 going to Lausanne-Flon.
 Get off at UNIL-Mouline.

The conference room is in the Unithèque building (see map), within the university library (BCU) on the upper floor of the library (follow the signs).

On Friday, the dinner will take place at the restaurant *Le Pinocchio*, which is in the inner city; we will go there together.

Campus map:

