

## South American Workshop on the Foundations of Quantum Theory and Cosmology

### Programme:

Monday, November 3	
<b>8:00 – 9:00</b>	<b>REGISTRATION</b>
9:15 – 9:30	<b>OPENING</b>
9:30 – 11:00	A. Kent: <i>Quantum Reality, Generalizations of Quantum Theory and Cosmological Implications</i>
11:00 – 11:30	COFFEE BREAK
11:30 – 13:00	R. Tumulka: <i>Cosmological quantum fluctuations from the perspectives of Bohmian mechanics and collapse theories</i>
13:00 – 15:00	LUNCH
15:00 – 15:45	O. Lombardi: <i>About the concept of quantum information</i>
15:45 – 16:30	F. Holik: <i>Generalized probabilistic theories and the foundations of quantum mechanics</i>
16:30 – 17:15	COFFEE BREAK
17:15 – 19:00	Discussion: <i>Wave function of the Universe? Does it make sense?</i>
Tuesday – November 4	
<b>9:45 – 11:15</b>	D. Albert (by SKYPE): <i>On Primitive Ontology</i>
11:15 – 11:45	COFFEE BREAK
11:45 – 13:15	R. Gambini: <i>Quantum Gravity and the Montevideo Interpretation of Quantum Mechanics.</i>
13:15 – 15:15	LUNCH
15:15 – 16:00	M. Losada: <i>Quantum histories without contrary inferences</i>
16:00 – 16:45	Poster session
16:45 – 17:30	COFFEE BREAK
17:30 – 19:15	Discussion: <i>Many Worlds Interpretations; Decoherence and their interconnection</i>

Wednesday – November 5	
9:00 – 10:30	A. Valentini: <i>Primordial quantum non-equilibrium and large-scale cosmic anomalies</i>
10:30 – 11:00	COFFEE BREAK
11:00 – 12:30	E. Okon: <i>Consistency of Consistent Histories</i>
12:30 – 14:00	LUNCH
14:00 – 15:30	IFT COLLOQUIUM – G. Ellis: <i>Quantum mechanics, unitarity, and determinism: debatable issues and relations to cosmology</i>
15:30 – 16:00	COFFEE BREAK
16:00 -	<b>SIGHTSEEING</b>
Thursday, November 6	
9:45 – 11:15	D. Sudarsky: <i>Symmetry in Quantum theory in general and in the cosmological context in particular</i>
11:15 – 11:45	COFFEE BREAK
11:45 – 13:15	G. Ellis: <i>Quantum physics and the classical transition: back to fundamentals.</i>
13:15 – 15:15	LUNCH
15:15 – 16:00	M. Valenzuela: <i>Space-time quantization and modified causality at Planck scales</i>
16:00 – 16:45	Poster session
16:45 – 17:30	COFFEE BREAK
17:30 – 19:15	Discussion: <i>Collapse Theories, de Broglie-Bohm theory, Lorentz Invariance and all that</i>
20:00 -	CONFERENCE DINNER
Friday, November 7	
9:45 – 11:15	S. Landau: <i>Testing quantum collapse models with data from the Cosmic Microwave Background</i>
11:15 – 11:45	COFFEE BREAK
11:45 – 13:15	N. Pinto Neto: <i>Quantum cosmology from the de Broglie–Bohm perspective</i>
13:15 – 15:15	LUNCH
15:15 – 16:00	I. Peña: <i>Black Hole Information Loss and Collapse theories</i>
16:00 – 16:45	I. Gomez: <i>Fundamental graininess and statistical classical limit: compatibility of chaos with the Correspondence Principle (CP)</i>
16:45 – 17:30	COFFEE BREAK
17:30 – 19:15	Discussion: <i>Final analysis and conclusions</i>