Perspectives on Time and Atemporality in Cosmology and Natural Sciences

17-19 July 2023

Sala Napoleonica
Palazzo Greppi
Via Sant’Antonio 12
20122 Milan

Emily Adlam - Julian Barbour - Jeremy Butterfield - Salvatore Capozziello - Enrico Cinti - Richard Dawid - Sebastian de Haro - Nick Huggett - Vincent Lam - Daniele Oriti - Giulia Rubino - Marco Sanchioni - Francesca Vidotto

Program and Organizing Committee: Silvia De Bianchi, Laura Follesa, Marco Forgione, Laura Marongiu
PROTEUS Final Conference
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P R O G R A M

Monday 17 July 2023

9:45 – 10:00 Welcome
Chair: Álvaro Mozota
10:00 – 11:15 Jeremy Butterfield “En route to reduction: Lorentzian manifolds and causal sets”
11:30 – 12:45 Richard Dawid “Emergent time and exact dualities”
Lunch
Chair: Marco Forgione
14:00 – 15:15 Sebastian de Haro “On Time and Holes in de Sitter Spacetimes”
Coffee Break
15:45 – 17:00 Julian Barbour “Complexity and a Dynamical Arrow of Time”
17:00 – 19:00 Book Symposium
Enrico Cinti and Marco Sanchioni “I paradossi dei buchi neri. Una spiegazione elementare per comprendere l’universo” (Carocci 2022). The event is open to the public.

Tuesday 18 July 2023

Chair: Istvan Szapudi
9:30 – 10:45 Francesca Vidotto “Quantum Cosmology with no time from covariant Loop Quantum Gravity”
Coffee Break
11:15- 12:30 Presentation of results: PROTEUS Research Team
Lunch
Chair: Federico Viglione
14:30 - 15:45 Emily Adlam “The Temporal Asymmetry of Influence is Not Statistical”
Coffee Break
16:15 – 17:30 Giulia Rubino “Theory Independent Tests of Indefinite Causality”

Wednesday 19 July 2023

Chair: Nicola Bamonti
9:30 – 10:45 Vincent Lam “Universality and Effective Temporal Dynamics: An Epistemic Approach Agnostic to Ontology”
Coffee Break
11:15- 12:30 Nick Huggett “Semi-Classical Time in Quantum Cosmology”
Lunch
Chair: Silvia De Bianchi
14:30 - 15:45 Daniele Oriti “A Foundational Trefoil for Spacetime: Quantum Gravity, Hydrodynamics and Cosmology”
Coffee Break
16:15 – 17:30 Salvatore Capozziello “Noether Symmetries in Quantum Cosmology: A Selection Rule for Observable Universes”

Farewell

To register please email
silvia.debianchi@unimi.it by July 5, 2023