

Reductionism in Transitions

Program

October 10 (espace Agora)

8h15-8h45 - Introduction

8h45-10h - Keynote: **Jeremy Butterfield** (University of Cambridge)
Emergent ontology and structural realism: quantities as objects and objects as quantities

10h-10h45 - Contributed talk: **Vincent Ardourel** (CNRS, Université Paris 1 Panthéon-Sorbonne)
Singular limits, reduction, and turbulence in fluid mechanics

Coffee break

11h15-12h30 - **Eleanor Knox** (King's College London)
Emergence and (Constitutive) Functionalism

Lunch

14h-15h15 - **Patricia Palacios** (University of Salzburg)
Emergence, Reduction and Critical Phase Transitions

15h15-16h - Contributed talk: **Kohei Morita** (Kobe University)
Evaluating the relationships between models in critical phenomena and superconductivity

Coffee break

16h30-17h45 - **Andreas Hüttemann** (University of Cologne)
Phase transitions and the causal exclusion argument

Conference diner (20h) - Le Grill des tanneurs

October 11 (Quai 22)

8h45-9h30 - Contributed talk: **Johannes Martens** (CNRS, Sorbonne Université)
Darwinian indivisibility, egalitarian transitions and the 3-layered model

9h30-10h45 - Keynote: **Samir Okasha** (University of Bristol)
Reductionism and Evolutionary Transitions

Coffee break

11h15-12h30 - **Fridolin Gross** (University of Bordeaux)
Three regimes of biological complexity

Lunch

14h-15h15 - **Tarja Knuuttila** (University of Vienna)
Mechanistic reduction and unification: Uri Alon's network motifs

15h15-16h - Contributed talk: **Alexandre Guay** (University of Louvain)
Topological transitions in quantum fluids

Coffee break

16h30-17h45 - **Margarida Hermida** (King's College London)
Biophysical constraints and major evolutionary transitions