

LICPOS 2023 Lisbon, 12-15 July 2023

DAY 1 / 12 JULY

8:30-9:00	<b>Registration</b>				
9:00-9:30	<i>Welcome session</i>				
9:30-10:30	AMPHITHEATRE 6.1.36 -- Keynote address: <b>John Symons</b> " <i>Machine Learning and Scientific Inquiry</i> " (Chair: João L Cordovil)				
10:30-11:00	<b>Coffee-break</b>				
	ROOM 6.2.44	ROOM 6.2.45	ROOM 6.2.47	ROOM 6.2.48	ROOM 6.2.49
	<b>P1</b> Chair: Pietro Gori	<b>P2</b> Chair: Lorenzo Baravalle	<b>P3</b> Chair: Cristina Barés Gómez	<b>P4</b> Chair: Paulo Castro	<b>P5</b> Chair: Graça Corrêa
11:00-13:00	<p><b>Marco Gomboso &amp; Daniel Heredia</b> Determinism in current physics. Is it possible?</p> <p><b>Johannes Mierau</b> Bourbaki's Legacy in the Structuralism of Physics</p> <p><b>João L Cordovil</b> Towards an Emergentist Interpretation of Quantum Mechanics</p>	<p><b>João Pinheiro</b> Holocultural Moral Psychology Supports the Mind-Dependence of Moral Normativity</p> <p><b>Frederico Carvalho</b> Evolution, Cooperation and Moral Value</p> <p><b>Rush Stewart</b> Choice, Freedom, and Norms: Outline of a Theory of Coercive Menu Expansion</p>	<p><b>Nino Guallart</b> Dialogical games with modal logic with probability</p> <p><b>Elena Dragalina-Chernaya</b> Abstract logics as formal ontologies as classifications</p> <p><b>Alexander Belak</b> What Is Grasping?</p>	<p><b>Robert W Clowes</b> 4E Cognitive Science and Deep Learning: Challenges and Paths into the Future</p> <p><b>Klaus Gärtner</b> The Science of Consciousness in the Era of AI – Can we expect something new?</p> <p><b>Mattia Petrolo et al.</b> Two Dogmas of Trustworthy AI</p> <p><b>Giacomo Zanotti et al.</b> AI and risk: a philosophical analysis</p>	<p><b>Paride Del Grosso</b> Causal Issues in Policymaking</p> <p><b>Abhishek Kashyap</b> A dilemma concerning consensus in science</p> <p><b>Nadja Meisterhans</b> From Paranoia to Utopia? Psychoanalytical-philosophical reflections on performative-surrealist crisis-solving in times of multiple crises</p>
13:00-14:30	<b>Lunch</b>				
	ROOM 6.2.44	ROOM 6.2.45	ROOM 6.2.47	ROOM 6.2.48	ROOM 6.2.49
	<b>S1</b> Chair: Graça Corrêa	<b>S2</b> Chair: Cristina Villegas	<b>P6</b> Chair: Gil Santos	<b>P7</b> Chair: Daniel Heredia	<b>P8</b> Chair: Carla Feliciano
14:30-16:00	<p><b>Symposium: Philosophy and Science on Film</b> Graça Corrêa (Org.); Estela Jardim; Susana Viegas</p>	<p><b>Symposium: The units and levels of evolution: recent philosophical views</b> Cristina Villegas (Org.); David Cortés-García; Luis Alejandro Villanueva; Vanessa Triviño</p>	<p><b>Riccardo La Bella</b> An epistemological theory of new machines: how we think about models</p> <p><b>Philippe Gagnon &amp; Thierry Magnin</b> Are we heading toward an autonomization of machines?</p> <p><b>Benjamin Toth</b> The narrative structure of scientific writing</p>	<p><b>Samuel Fletcher</b> A Functional Classification of Physical Principles, Illustrated by the Theory of Relativity</p> <p><b>Tannaz Najafi</b> Super-Substantivalist Becoming in Physics</p> <p><b>Charlotte Erika Zito</b> Loop Quantum Gravity and primitivism about laws of nature</p>	<p><b>Alessandro Demichelis</b> How to avoid precision medicine hesitancy</p> <p><b>Cristina Barés Gómez &amp; Matthieu Fontaine</b> Methodological inference in anatomical research: the bloodletting</p>
	<b>S3</b> Chair: Alexander Gerner	<b>P9</b> Chair: Klaus Gärtner	<b>P10</b> Chair: Mattia Petrolo	<b>P11</b> Chair: João L Cordovil	
16:00-17:30	<p><b>Symposium: Towards a Philosophy of Technology of Proxies</b> Alexander Gerner (Org.); Jorge Louça; Luca Possati; Vinicius de Aguiar</p>	<p><b>Donal Khosrowi &amp; Finola Finn</b> Can AI produce synthetic evidence?</p> <p><b>Luis Lopez</b> Genuine Understanding or Mere Rationalizations? Approximations and Idealizations in Science and XAI</p>	<p><b>Oliver Todt et al.</b> Scientific Methodologies in Regulatory Science: is there an Optimum Choice?</p> <p><b>Lucie Boël</b> Developing an epistemological framework to study the role of ignorance in scientific research</p>	<p><b>Davide Romano</b> On the alleged extra-structures of quantum mechanics</p> <p><b>Vicent Picó-Pérez</b> Particle Mass as an Intrinsic Property in Bohmian Quantum Mechanics</p> <p><b>Paulo Castro</b> A Wave-memory interpretation for Quantum Mechanics - An attempt to unify pilot-wave theory with standard QM formalism</p>	
17:30-18:00	<b>Coffee-break</b>				
18:00-19:00	AMPHITHEATRE 6.1.36 -- Keynote address: <b>Patricia Palacios</b> " <i>Reduction and the Autonomy of the Special Sciences</i> " (Chair: Davide Vecchi)				

DAY 2 / 13 JULY

9:30-10:30 AMPHITHEATRE 6.1.36 -- Keynote address: **María Jimenez Buedo** "Experimental Validity in the Social Sciences: challenges, practices, and conceptual tools" (Chair: *María de Paz*)

10:30-11:00 **Coffee-break**

ROOM 6.2.44	ROOM 6.2.45	ROOM 6.2.47	ROOM 6.2.48	ROOM 6.2.49
<b>P12</b> Chair: <i>Vinicius de Aguiar</i>	<b>P13</b> Chair: <i>Graça Corrêa</i>	<b>P14</b> Chair: <i>Paulo Castro</i>	<b>P15</b> Chair: <i>João Pinheiro</i>	

11:00-13:00  
**Alberto Colombo et al.**  
 Exploring the multisensory modulation of the self in depersonalization  
**Liberty Severs et al.**  
 Embodied Joint Agency and Human-Robot Interactions  
**Janko Nešić**  
 Attuning the World: Ambient Smart Environments for Autistic Fields of Affordances

**Pedro Farinha Gomes**  
 Between philosophy of art, social and human sciences and the history and philosophy of science  
**Mariana RP Alves**  
 Becoming Oscillation: Contemporary dance and developmental biology meet through philosophy exchange  
**Sâmara Costa**  
 Sainte-Victoire, the many mountains of Cézanne

**José Ramalho Croca**  
 Complex Relational Physics, Nonlinear Quantum Physics and Eurhythmic Physics  
**Laurie Letertre**  
 Temporal nonlocality from indefinite causal orders  
**Michalis Christou**  
 Non-transitive identity in the quantum realm: Many worlds, one identity relation  
**Wigson Rafael Silva da Costa**  
 The Eternal Return: Scientific Possibilities and Epistemological Gains

**Alejandro Rosas**  
 Moral principles and moral disagreement  
**Sacha Ferrari**  
 How the structure of scientific communities and communication channels impact the public understanding of science  
**Adam Chin**  
 Philosophy of the Non-Basic Sciences: Thinking with the 85%

13:00-14:30 **Lunch**

ROOM 6.2.44	ROOM 6.2.45	ROOM 6.2.47	ROOM 6.2.48	ROOM 6.2.49
Chair: <i>Silvia Di Marco</i>	<b>S5</b> Chair: <i>Christopher Austin</i>	<b>P16</b> Chair: <i>Gil Santos</i>	<b>P17</b> Chair: <i>Marco Gomboso</i>	

14:30-16:00  
**S4 - Symposium: Feminist epistemology in Philosophy of Science, Part I: Theoretical Considerations**  
 Silvia Di Marco & María de Paz (Org.); Blanca Luque Linero; Elisa García Lara, Frontiers; Elena Popa

**Symposium: Biological Mistakes: Metaphysical Foundations and Experimental Promise**  
 David S Oderberg (Org.); Christopher Austin; Jonathan Hill

**Sarwar Ahmed**  
 An Inferential-Information Transmission Account of Observation  
**Juan Hermoso Durán**  
 How (not) to be a faux materialist. Sense and reference in scientific reduction  
**Omer Fatih Tekin**  
 Primitivism vs. Humean and Dispositional Realism

**Olivier Ouzilou**  
 Conspiracy Theory of Society and Structural Explanation  
**Nuno Miranda e Silva**  
 The absence of epistemic peerhood in Education Sciences: notes on methodological impacts

<b>S6</b> Chair: <i>María de Paz</i>	<b>P18</b> Chair: <i>Davide Vecchi</i>	<b>P19</b> Chair: <i>Cristina Villegas</i>	<b>P20</b> Chair: <i>Gonçalo Martins</i>	
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16:00-17:30  
**Symposium: Feminist Epistemology in Philosophy of Science: Part II: Gendered Norms in Scientific Practice**  
 Silvia Di Marco & María de Paz (Org.); Abhishek Kashyap; Priya Sharma; Emma Otterski; Alex Thinius; Rose Trappes

**José Antonio Pérez Escobar**  
 A normative role of mathematical models in measurement  
**Frank Zenker**  
 Cohen's convention and the body of knowledge in behavioral science

**Sepehr Ehsani**  
 Examining Transient Part-Part Interactions toward Improving the Quality of Mechanistic Explanations in Cell Biology  
**Aurore Franco**  
 The Endosymbiotic Theory and the Modern Synthesis

**Gil Santos**  
 Downward Causation in Social Neuroscience  
**Alexandros Constantinou**  
 Emergence and Downward Causation

17:30-18:00 **Coffee-break**

18:00-19:00 AMPHITHEATRE 6.1.36 -- Keynote address: **Samir Okasha** "Evolution and Natural Selection: the tautology problem re-visited" (Chair: *Lorenzo Baravalle*)

20:30 **CONFERENCE DINNER**

DAY 3 / 14 JULY

9:30-10:30 AMPHITHEATRE 6.1.36 **ONLINE** -- Keynote address: **Gabriele Gramelsberger** "Philosophy of Computational Sciences" (Chair: Alexander Gerner)

10:30-11:00 **Coffee**

ROOM 6.2.44

**P21** Chair: Davide Vecchi

**Margarida Hermida**  
Alien trees  
**Carla Feliciano**  
Underdetermination of theories by evidence. Deconstructing the problem in contemporary biomedical sciences  
**Francisco Carrapiço**  
Travelling Beyond Neodarwinism. Contribution to a Symbiogenic Theory of Evolution  
**Gonçalo Martins**  
Analysing Niche Construction in a termites' colony according to a processual perspective

ROOM 6.2.45

**P22** Chair: Silvia Di Marco

**Marilynn Johnson**  
A Journey to Lascaux: On the Role of Intention, Aesthetics, Emotion, and Ethics in Interpreting Prehistory  
**Martina Valković**  
Cultural evolutionary theories and their limitations  
**Hernán Bobadilla**  
Interpretation in Model Explanations: A Case Study in Explaining Seismic Phenomena  
**Louis-Étienne Villeneuve**  
Colligations in the historiography of science

ROOM 6.2.47

**P23** Chair: Tannaz Najafi

**Valeriano Iranzo**  
Is modelling a source of evidence?  
**Johan Soderberg & Evelina Johansson Wilén**  
(E)quality in research: Sex and gender perspectives as indicators of research quality  
**Guido Tana**  
Dogmatism, Knowledge, and Factivity  
**Rui Sampaio Silva**  
The underdetermination thesis and the role of judgement in science

ROOM 6.2.48

**P24** Chair: Alberto Colombo

**Andrei Mărășoiu**  
Representation and design in network models of category deficits  
**Bojana Grujicic**  
Representational similarity analysis underdetermines deep neural networks as mechanistic explanations of object recognition  
**Vanja Subotić**  
Local and Global Explanatory Dynamics of Deep Learning Models in Cognitive Neuroscience  
**Valeria Becattini**  
Learning to Attenuate Myself

ROOM 6.2.49

**P25** Chair: María de Paz

**Gal Yehezkel**  
Why the one-asymmetry approach cannot explain the arrow of time  
**José Alejandro Fernández Cuesta**  
The Logical Structure of Physics: implicit limits of the structuralist proposal and explicit challenges from quantum-logical developments  
**Pablo Caballero**  
Hybrid Logic for the Analysis of Conceptions of Physical Time  
**Dominic Ryder**  
Directed Temporal Asymmetry from Scale Invariant Dynamics: Is the Problem of Time's Arrow Solved?

11:00-13:00

13:00-14:30 **Lunch**

ROOM 6.2.44

**S7** Chair: Davide Vecchi

ROOM 6.2.45

**S8** Chair: Andrei Moldovan

ROOM 6.2.47

**P26** Chair: Blanca Luque

ROOM 6.2.48

**P27** Chair: Joan Bertran San-Millán

14:30-16:00

**Symposium: The evolutionary origin of sentience as a bio-philosophical problem - Part I**  
Davide Vecchi (Org.); Giorgio Airoidi; Gil Santos; Maurizio Esposito

**Symposium: Science, Expertise and Trust**  
Andrei Moldovan (Org.); Obdulia Torres; Ana Cuevas Badallo

**Daniel N. Camesella & María de Paz**  
Émilie du Châtelet and the absolute space  
**Pietro Gori**  
Remarks on Mary Hesse's hermeneutic account of scientific knowledge  
**Jer Steeger & Ray Pedersen**  
Complementarity as epistemic infringement

**Alejandro Gracia Di Rienzo**  
Noneist Mathematical Structuralism  
**Marta Esteves**  
A second-order Theory of structures for Group Theory: an argument for non-eliminative structuralism

**S9** Chair: Davide Vecchi

**P28** Chair: Liberty Severs

**P29** Chair: Marco Gomboso

**P30** Chair: Bruno Jacinto

16:00-17:30

**Symposium: The evolutionary origin of sentience as a bio-philosophical problem - Part II**  
Davide Vecchi (Org.); Lorenzo Baravalle; Jorge Marques da Silva

**Samir Roy**  
A Pragmatic Approach to Artificial Intelligence (AI) vis-à-vis Evolution of Machines from the Wheels to Superintelligence  
**Alessandra Cenci**  
The philosophy and epistemology of the "Citizen Data Science" stance  
**Steven S Gouveia**  
The Search for Explanation in AI Medicine

**Petar Nurkić**  
Water, Water Everywhere! A Skeptical Chemist's Quest for the Thales Principle  
**Joshua Ben Itamar**  
Berkeley's Criterion Of A Mechanist View and His Attack on The Mechanist View

**José Ferreirós**  
A conceptualist take on structuralism  
**Daniele Molinini**  
Mapping-based accounts of applicability and converse applications  
**Sebastian Horvat**  
An Alleged Tension between Quantum Logic and Applied Classical Mathematics

17:30-18:00 **Coffee-break**

18:00-19:00 AMPHITHEATRE 6.1.36 -- Keynote address: **James Tappenden** "The German Romantic Context for Frege's Early Writings" (Chair: Joan Bertran San-Millán)

19:00-19:15 **Closing remarks**

10:30-13:00 ROOM 6.2.44  
**Meeting – Iberian Network of Philosophy of Science (ReIFiCi)**

13:00-14:30 **Coffee-break**

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## PRACTICALITIES

### Where to have lunch

During the conference you can have lunch at the University restaurants/canteens on Campus (Buildings C6 and C7), at the Faculty of Letters and in the Reitoria building.

On Campo Grande, less than 10 minutes walking distance from the conference venue, you'll find a McDonald's and two nice restaurants:

Casa do Lago (tel. +351 217574241)

Tutti a Tavola (tel. +351 927390293).

For the restaurants it's recommended to make a reservation.

### Conference dinner

Thursady, July 13 at 20:30

**Restaurant RICE ME**

Rua Carlos Testa, 18A - Lisbon

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