

Philosophy of Cosmology — Conference Programme

Kostis Palamas Building · 48 Akadimias str. & Sina str., 105 62 Athens · 6–9 July 2025

Monday, 6 July

09:15 – 09:45	Registration
09:45 – 10:00	WELCOME ADDRESS Prof. Spyros Basilakos — Director, National Observatory of Athens
10:00 – 10:30	Quantum gravity and the Big Bang: singularities, bounces, and spacetime emergence <i>Alvaro Mozota Frauca</i>
10:30 – 11:00	Epistemology of spacetime topology <i>Marta Bielinska</i>
11:00 – 11:30	Coffee break
11:30 – 12:00	ESRO, space-based research, and fundamental physics <i>Alessio Rocci</i>
12:00 – 12:30	Predictions in an uncertain world <i>Antonios Papaioannou</i>
12:30 – 13:00	What differentiates astrophysical experiments? <i>Rami Jreige</i>
13:00 – 15:00	Lunch break
15:00 – 16:30	SYMPOSIUM Quantum information in cosmology <i>Charis Anastopoulos, Eirini Telali, Vasileios Letsios, Maria Eftychia Papageorgiou</i>
16:30 – 17:00	Coffee break
17:00 – 18:00	KEYNOTE Tensions in cosmology: are we approaching new physics? <i>Emmanuel Saridakis</i>

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Tuesday, 7 July

10:00 – 10:30	The epistemic productivity of erroneous reanalyses in black hole imaging <i>Paula Muhr</i>
10:30 – 11:00	Black holes or neutron stars? The implicit bets behind the first detection of gravitational waves <i>Jean-Philippe Martinez</i>
11:00 – 11:30	Coffee break
11:30 – 12:00	The secret lives of mass gap black holes <i>Jamee Elder</i>
12:00 – 12:30	Physicality behind black hole universality <i>Yichen Luo</i>
12:30 – 13:00	Why care about going beyond Kerr? <i>Juliusz Doboszewski</i>
13:00 – 15:00	Lunch break
15:00 – 16:30	SYMPOSIUM Signature change and Kretschmann invariance: atemporality and empirical constraints in black hole shadows <i>Emmanuele Battista, Salvatore Capozziello, Silvia De Bianchi</i>
16:30 – 17:00	Coffee break
17:00 – 17:30	Nature of contemporary astronomy and astrophysics: portrait of unique sciences <i>Charly Moberg</i>
17:30 – 18:00	From saving the phenomena to phenomenological modelling: a genealogy of cosmological phenomenology <i>Julien Bernard</i>

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Wednesday, 8 July

09:30 – 10:00	Dark matter and scientific realism: an extensional approach among realist frameworks <i>Evangelos Georgoudis</i>
10:00 – 10:30	Realism in the shadows: philosophical reflections on the universe's dark sector <i>Nikolaos Alexiou</i>
10:30 – 11:00	Is dark matter the ether of the 21st century? <i>Antonis Antoniou</i>
11:00 – 11:30	Coffee break
11:30 – 12:00	From causal boundary to epistemic interface: the conceptual transformation of horizons in modern cosmology <i>Susanna Piombo</i>
12:00 – 12:30	Four flatness problems in cosmology <i>Phillip Helbig</i>
12:30 – 13:00	Whence the desire to close the universe? <i>Jonathan Fay</i>
13:00 – 15:00	Lunch break
15:00 – 15:30	Are wormholes physically unreasonable? <i>Sanne Vergouwen</i>
15:30 – 16:00	Ontological aspects of gravity from the geometrical trinity <i>Charalampos Tzerefos, Fotios Anagnostopoulos</i>
16:00 – 16:30	Coffee break
16:30 – 17:30	KEYNOTE Cosmological methodology in the face of tensions <i>Helen Meskhidze</i>
20:00 – 22:00	Conference dinner — Athinaikon Restaurant, Mitropoleos str. 34

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Thursday, 9 July

10:00 – 10:30	Effective realism and the problem of Boltzmann brains <i>Marco Maggiani</i>
10:30 – 11:00	The antinomies of modern cosmology: AI, epistemic limits, and the Kantian horizon <i>Marius Augustin Draghici</i>
11:00 – 11:30	Coffee break
11:30 – 12:00	From cosmic dipoles to the cosmological principle <i>Kartik Tiwari</i>
12:00 – 12:30	Can we test the Copernican principle? <i>George Papadopoulos</i>
12:30 – 13:00	Toward a foundation for cosmo/astrostatistics: deidealization from structure formation to the cosmos <i>Tianzhe Cozette Shen</i>
13:00 – 15:00	Lunch break
15:00 – 15:30	Experiments, models, and unification, or why gravitational waves are not ripples of spacetime <i>Antonio Ferreira</i>
15:30 – 16:00	Can the constants vary? Some metaphysical and cosmological considerations <i>Mahmoud Jalloh</i>
16:00 – 16:30	The nomic status of the fundamental constants of nature: the case of the cosmological constant <i>Niels Martens</i>
16:30 – 17:00	Coffee break
17:00 – 18:00	KEYNOTE The fundamental constants at the heart of measurement and cosmology <i>Jean-Philippe Uzan</i>

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