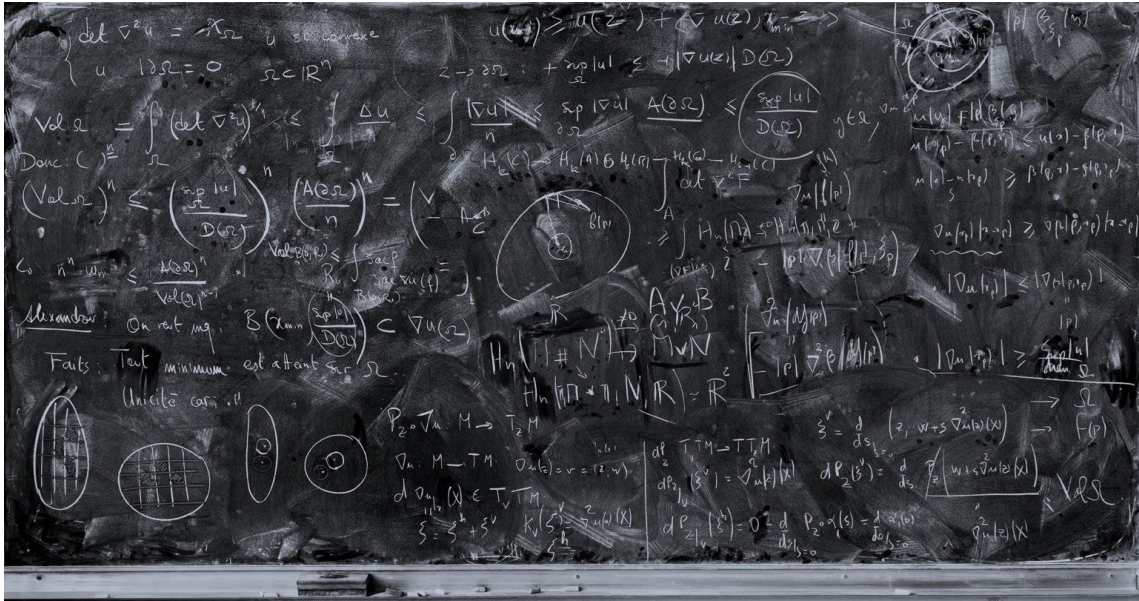


THE HEURISTIC VIEW

Logic, Mathematics, and Science

CONFERENCE



SAPIENZA
UNIVERSITÀ DI ROMA

DEPARTMENT OF PHILOSOPHY – SAPIENZA UNIVERSITY OF ROME

PH.D. COURSE IN PHILOSOPHY

20-22 FEBRUARY 2023

Villa Mirafiori, via Carlo Fea 2, room II

<https://uniroma1.zoom.us/j/97038950031>

The conference is hybrid, free, and open to the public (no registration required)

Organized by Emiliano Ippoliti and Fabio Sterpetti



Under the auspices of the *Italian Society for Logic and Philosophy of Sciences (SILFS)*

Info: emiliano.ippoliti@uniroma1.it; fabio.sterpetti@uniroma1.it

PROGRAMME

MONDAY, 20 FEBRUARY 2023

Chair TERESA NUMERICO (Roma Tre University)

09:00-10:00 ALEXANDER C. PASEAU (University of Oxford), *Deductive Science and Non-Deductive Knowledge*

10:00-11:00 SORIN BANGU (University of Bergen), *Wittgenstein on Benacerraf's Dilemma*

coffee break

11:20-12:20 EMILIANO IPPOLITI (Sapienza University of Rome), *The Efficient Market Hypothesis: A Heuristic Appraisal*

12:20-13:20 OTÁVIO BUENO (University of Miami), *Lakatos, Cellucci, and Heuristic Philosophy of Mathematics*

lunch break

Chair FABIO STERPETTI (Sapienza University of Rome)

15:00-16:00 JOHN CLEMENT (University of Mass.), *Multiple Levels of Heuristics used in Constructing Scientific Models*

16:00-17:00 LORENZO MAGNANI (University of Pavia), *Mathematics as Objective Knowledge: Discovering How to Make the World Intelligible*

coffee break

17:20-18:20 W. D'ALESSANDRO, A. MURPHY (LMU Munich), *Imaginative Resistance and Genre in Mathematics and Science*

TUESDAY, 21 FEBRUARY 2023

Chair EMILIANO IPPOLITI (Sapienza University of Rome)

09:00-10:00 MICHELE GINAMMI (Independent Researcher), *On the Heuristic Effectiveness of Physics in Mathematics*

10:00-11:00 DIANA QUARANTOTTO (Sapienza University of Rome), *From Physics to Metaphysics: Aristotle's Heuristic Path*

coffee break

11:20-12:20 DONALD GILLIES (University College London), *Lakatos and the Philosophy of Mathematics*

12:20-13:20 ANGELO PETRONI (Sapienza University of Rome), *Does Philosophy of Science still Matter?*

lunch break

Chair SORIN BANGU (University of Bergen)

15:00-16:00 ALAN BAKER (Swarthmore College), *Applied Mathematics as Problem-Driven Game*

16:00-17:00 DAVID CORFIELD (University of Kent), *Category Theory as a Heuristic Tool in Logic and Mathematics*

coffee break

17:20-18:20 CARLO CELLUCCI (Sapienza University of Rome), *The Two Paradigms of Logic*

WEDNESDAY, 22 FEBRUARY 2023

Chair DIANA QUARANTOTTO (Sapienza University of Rome)

09:00-10:00 CATARINA DUTILH NOVAES (VU Amsterdam), *A Dialogical Account of Proofs in Mathematical Practice*

10:00-11:00 FABIO STERPETTI (Sapienza University of Rome), *The Heuristic View and Anti-Exceptionalism about Logic*

coffee break

11:20-12:20 TERESA NUMERICO (Roma Tre University), *Abstraction and Classification in Machine Learning: Some Undesirable and Unpredictable Consequences*

12:20-13:20 R. CAMPANER, M.C. GALAVOTTI (University of Bologna), *Pluralism: An Antidote against the Chimera of Certainty*