

IS PHILOSOPHY USEFUL FOR SCIENCE, AND/OR VICE VERSA?

January 30 - February 2, 2024



CHAPMAN
UNIVERSITY

**Schmid College of
Science and Technology**

IS PHILOSOPHY USEFUL FOR SCIENCE, AND/OR VICE VERSA?

Tuesday, January 30, 2024

Beckman Hall 401

- 8 - 9:00 a.m. Coffee and Breakfast in Beckman Hall 4th Floor Lobby
- 9 - 9:45 a.m. **MICHAEL IBBA, MARCO PANZA, THOMAS PRADEU, AND DANIELE STRUPPA**
(Chapman University)
"Why to Wonder about the Utility of Philosophy for Science, and Why to Do it at Chapman"
- 10 - 11:15 a.m. **ROBERT BATTERMAN**
(University of Pittsburgh)
"Methodology, Models, and Mathematics"
- 11:15 - 11:45 a.m. Coffee Break in Beckman Hall 4th Floor Lobby
- 11:45 a.m. - 1:00 p.m. **EVAN PATTERSON**
(Topos Institute)
"Toward formalizing scientific theories and models using categorical logic"
- 1:00 - 2:00 p.m. Lunch in Beckman Hall 4th Floor Lobby and Patio
- 2:00 - 3:15 p.m. **JAMES OWEN WEATHERALL**
(University of California, Irvine)
"Why Physics Needs Philosophers (and Philosophy Departments)"

Tuesday, January 30, 2024

Beckman Hall 401

- 3:15 - 4:30 p.m. **JEAN-MICHEL SALANSKIS**
(University of Paris X Nanterre)
"Usefulness and Fruitfulness"
- 4:30 - 4:45 p.m. Coffee Break in Beckman Hall 4th Floor Lobby
- 4:45 - 6:00 p.m. **KELVIN MCQUEEN**
(Chapman University)
"Adversarial Collaborations with Scientists and Philosophers"
- 6 p.m. Dinner at Citrus City Grille
122 N Glassell Street Orange, CA 92866

Wednesday, January 31, 2024

Beckman Hall 401

- 8 - 8:30 a.m. Coffee and Breakfast in Beckman Hall 4th Floor Lobby
- 8:30 - 9:45 a.m. **KARINE CHEMLA**
(Centre national de la recherche scientifique)
"The entanglement of philosophical and mathematical reflections in Poncelet's introduction of ideal elements in mathematics (1815-1822)"
- 9:45 - 11:00 a.m. **HUGH WOODIN**
(Harvard University)
"Mathematical truth and the necessity of the Infinite"

- 11 - 11:15 a.m. Coffee Break in Beckman Hall 4th Floor Lobby
- 11:15 a.m. - 12:30 p.m. **DAMIAN RÖSSLER**
(University of Oxford)
"Is Philosophy Useful for Mathematics and/or Vice Versa?"
- 12:30 - 1:30 p.m. Lunch in Beckman Hall 4th Floor Lobby and Patio
- 1:30 - 2:45 p.m. **URI MAOZ**
(Chapman University)
"Interaction between neuroscience and philosophy in the scientific study of the problem of free will"
- 2:45 - 4 p.m. **MICHAEL SHULMAN**
(University of San Diego)
"From HoTT to H.O.T.T."
- 4 - 4:15 p.m. Coffee Break in Beckman Hall 4th Floor Lobby
- 4:15 - 5:30 p.m. **AARON SCHURGER**
(Chapman University)
"Philosophy and Neuroscience in the Study of Conscious Perception"
- 6 p.m. Conference Dinner and Special Announcement
hosted by President Daniele Struppa

Location: Fish Interfaith Center

- 8:30 - 9:45 a.m. Coffee and Breakfast in Beckman Hall 4th Floor Lobby
- 9:45 - 11 a.m. **MARGARET MCFALL-NGAI**
(California Institute of Technology)
"The consequences of living in a microbial world"
- 11 - 11:15 a.m. Coffee Break in Beckman Hall 4th Floor Lobby
- 11:15 a.m. - 12:30 p.m. **ROB KNIGHT**
(University of California, San Diego)
"The human microbiome and its implications for philosophy"
- 12:30 - 1:30 p.m. Lunch in Beckman Hall 4th Floor Lobby and Patio
- 1:30 - 2:45 p.m. **RALPH ADOLPHS**
(California Institute of Technology)
"The Essential Role of Philosophy in Cognitive Neuroscience and Psychology"
- 2:45 - 4:00 p.m. **DOUGLAS FUDGE**
(Chapman University)
"Critical and persuasive predictions in experimental biology"
- 4 - 4:15 p.m. Coffee Break in Beckman Hall 4th Floor Lobby

Thursday, February 1, 2024

Beckman Hall 401

4:15 - 5:30 p.m. **ALAN LOVE**
(University of Minnesota)
"The Biological Trait Concept and Character Identity Mechanisms"

6 p.m. Dinner at O SEA
109 S Glassell St, Orange, CA 92866

Friday, February 2, 2024

Beckman Hall 401

8 - 8:30 a.m. Coffee and Breakfast in Beckman Hall 4th Floor Lobby

8:30 - 9:45 a.m. **THOMAS RYCKMAN**
(Stanford University)
"Hermann Weyl and the transcendental phenomenological roots of gauge invariance"

9:45 - 11 a.m. **JOHN NORTON**
(University of Pittsburgh)
"Philosophy in Einstein's Discovery of Special Relativity"

11 - 11:15 a.m. Coffee Break in Beckman Hall 4th Floor Lobby

11:15 a.m. -
12:30 p.m. **MATTHEW LEIFER**
(Chapman University)
"On the Utility of Philosophy in Quantum Mechanics"

12:30 - 1:30 p.m. Lunch in Beckman Hall 4th Floor Lobby and Patio

- 1:30 - 2:45 p.m. **DEBORAH MAYO**
(Virginia Tech)
"The importance of philosophy of science for statistical science and vice versa"
- 2:45 - 4:00 p.m. **CATHERINE HERFELD**
(Leibniz Universität Hannover)
"Is Science Useful for Philosophy? The Case of Studying Model Transfer"
- 4 - 4:15 p.m. Coffee Break in Beckman Hall 4th Floor Lobby
- 4:15 - 5:30 p.m. **KINO ZHAO**
(Simon Fraser University)
"What are statistical modeling assumptions about? An answer from perspectival pluralism"
- 5:30 - 6:45 p.m. **ERIC SCHLIESSER**
(University of Amsterdam)
"Synthetic Philosophy: A Restatement"
- 7 p.m. Apéritif dînatoire with champagne
Beckman Hall 4th Floor Lobby and Patio