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

January 30 - February 2, 2024
**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

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

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
Thursday, February 1, 2024

Beckman Hall 401

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

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

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