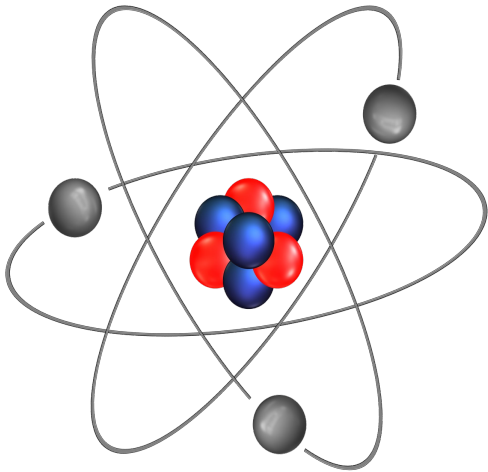


Models & Representations in Science

September 25 to 30, 2023



General Information

Venue

The conference takes place in Lecture room F2 of the **Fürstenberghaus** (first floor).



University of Münster
Domplatz 20-22
48143 Münster

The conference office is located directly opposite room F2 in room F 153.

Académie Internationale de Philosophie des Sciences

The object of the Académie Internationale de Philosophie des Sciences (AIPS, International Academy for the Philosophy of the Sciences) is to try to reach a synthesis on the fundamental questions of the philosophy of the sciences in an interdisciplinary manner. In 1949 a first, inaugural, colloquium took place in the Palais des Académies in Brussels. Over a long period some sixty colloquia have been organized (annually since 1961) in different university centres throughout the world, each time leading to a publication.

For more information about AIPS visit
<https://www.aips.be/en>



Tuesday 26th of September

9.00-9.30 Welcome of Participants

Chair: Hans-Peter Grosshans

Speakers: Prof. Michael Quante, Vice-Rector
of the University of Münster
Prof. Jure Zovko, President of AIPS

9.30-10.15 **Johan van Benthem**: The importance of representation in enabling logical reasoning

10.15-11.00 **Itala Loffredo d'Ottaviano**: Partial-structures and partial-truth in science

11.00-11.15 Coffee Break

11.15-12.00 **Chen Bo**: Does Logic Represent This World and Our Mind? Yes!

12.00-12.45 **Hannes Leitgeb**: On Non-Representational Parts of Models

13:00-15:30h Lunch Break

15.30-16.15 **Demetris Portides**: Idealization and Abstraction in Scientific Models

16.15-17.00 **Michel Ghins**: A defense of the structural view of scientific representation

17.00-17.45 **Jean-Guy Meunier**: Modeling computer assisted conceptual analysis from philosophical texts

17.45-18.00 Coffee Break

18.00-18.45 **Pablo Lorenzano**: Models and theory construction: structuralist and models in scientific practice programs

18.45-19.30 **Bernard Feltz**: Modelising and simulating in biology: a comparative approach

Wednesday 27th of September

9.00-9.45 **Hans Lenk**: Representation from technological modelism via perspectivistic pluralism towards

9.45-10.30 **Jure Zovko/Jörn Witt**: Diagnosis as an explanatory model of reality: Philosophical-medical approaches.

10.30-11.15 **Lorenzo Magnani**: Model-based scientific cognition as epistemic warfare

11.15-11.30 Coffee Break

11.30-12.15 **Hans-Jörg Rheinberger**: Modeling in Experimentation

12.15-13.00 **John Symons**: What is the scientific value of machine learning models?

13:00-15:30 Lunch Break

15.30-16.15 **Gerhard Schurz**: The Principle of Total Evidence: Justification and Political Significance

16.15-17.00 **Gino Tarozzi**: Non-standard realistic models of quantum phenomena and new forms of complementarity

17.00-17.15 Coffee Break

17.15-18.00 **Jesus Pedro Zamora Bonilla**: Models and representations in an inferential-deflationary view of scientific knowledge

18.00-18.45 **Marco Buzzoni**: Thought experiments and computer simulations: a comparison

18.45-19.30 **Atocha Llera Aliseda**: Models of change

Thursday 28th of September

9.00-9.45 **Alberto Cordero**: Models and representation in functional realism

9.45-10.30 **Anjan Chakravartty**: Models of science education and representations of science

10.30-11.15 **Martin Carrier**: Model-building in practice-driven research

11.15-11.30 Coffee Break

11.30-12.15 **Gregor Schiemann**: Scientific Worldviews and Models in Hermann von Helmholtz and Werner Heisenberg

12.15-13.00 **Jan Faye**: Models or theories: what is the real representation in Science?

13:00-15:00 Lunch Break

15.00-15.45 **Hans-Peter Grosshans**: What do models in theology represent?

15.45-16.30 **Elisabeth Gräß-Schmidt**: Model and Normativity: On the Relation of Nature – Technology – Ethics

Good to know!



Information on the history of Münster can be found in the "Town Hall Guide" included in the conference folders. With the "Sculptures Guide" you can explore the public artworks in Münster.

Friday 29th of September

9.00-9.45 **Harvey Brown**: Do symmetry principles explain conservation laws in physics? Lessons from the modern (first) Noether theorem

9.45-10.30 **Dennis Dieks**: Factivity of Representation in Science

10.30-11-15 **Otavio Bueno**: Empiricism and microscopy

11.15-11.30 Coffee Break

11.30-12.15 **James McAllister**: Are empirical data representations?

12.15-13.00 **Reinhard Kahle**: Hilbert on sciences

13:00-15:30 Lunch Break

15.30 City tour & visit to the museums in Münster

Saturday 30th of September

Personal city exploration / Departure