

CLMPS 2011
Program

Division of Logic, Methodology and Philosophy of Science of the
International Union of History and Philosophy of Science

Congress Secretariat
(Eds.)

Program

CLMPS 2011

Special Topic
Logic and Science Facing the New Technologies

14th International Congress of Logic, Methodology and
Philosophy of Science
July 19–26, 2011, Nancy (France)

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Welcome Address

Dear Colleagues,

On behalf of the Organizing and Program Committees we welcome you to the 14th International Congress of Logic, Methodology and Philosophy of Science, held in the historic capital of Lorraine, Nancy. We are very honored that the Président of the French Republic, Monsieur Nicolas Sarkozy, has generously agreed his patronage.

LMPS represents the current state of the art and offers new perspectives in its fields. All in all there are 900 registered participants from 56 different countries. They will fill 115 sessions of individual talks, 21 symposia and 13 affiliated meetings. Nearly 600 contributed papers have been accepted to complement a great number of invited lectures, symposia and associated events. These figures reflect the fact that LMPS is not only a place for scientific communication at the highest level, but also a forum for individual and collective research projects to reach a wide international audience.

For the first time in the LMPS history, the Nancy congress has a special topic: Logic and Science Facing the New Technologies. It illuminates issues of major significance today: the interaction between contemporary technologies and scientific method, including their integration in society. These are questions which are of great importance not only to LMPS participants, but also to our professional and sponsoring partners.

We are indebted to many persons and institutions for their integrated efforts to realize this meeting. First and foremost we would like to thank the members of our respective committees, the Local Organizing Committee, and the General Program Committee including its Senior Advisors and Advisors. They all have worked very hard during the past four years: Setting up an outstanding and attractive program and staging it in a comfortable surrounding that would make the congress a scientifically and socially enjoyable event. It has been a great pleasure to work with our colleagues and staff in these committees. The competence and professionalism of Pierre-Édouard Bour who supervised the organizational work deserves to be particularly acknowledged.

We also thank the Executive Committee of the DLMPS and its president Wilfrid Hodges for their constant support and encouragement. Claude Debru (Académie des Sciences, Paris) helped us, amongst many other things, with his knowledge of French institutions, for which are very grateful. Special thanks are also due to the University Nancy 2 and its Presidents, François Le Poutier and Martial

Delignon, as well as to the Deans of Nancy's Faculty of Law, Olivier Cachard and Éric Germain, who willingly let us occupy their splendid lecture halls and facilities. Without the generous financial support of the University of Lorraine, of local, national and international organizations, this meeting would not have been possible. To all these partners we express our warm gratitude.

Last but not least we would like to thank all our speakers. It is you who truly make the congress a success!

We wish you fruitful discussions and exchanges during the congress, and a pleasant stay in the beautiful city of Nancy.

Gerhard Heinzmann
Chair, Organizing Committee

Peter Schroeder-Heister
Chair, Program Committee

Committees

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- Interns:
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- Event organizers:
Sophie Gaulier & Anthony Humbertclaude (SG Organisation – Nancy).

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- Johann VAN BENTHEM
- Joseph VIDAL-ROSSET
- Marc VAN ATTEN

Official Program

Typographical Note

Titles of talks are reproduced in *italics*.

Last names of the authors are printed in SMALL CAPITALS.

Last and first names of invited speakers are printed in **boldface**.

Names and titles for plenary lectures and special symposia are printed in **boldface**.

Titles of symposia are printed in SMALL CAPS in the program by sections and in *italics* in the program by day (with the header “Symposium” in SMALL CAPS). In the program by day, only the general title of the symposium is given, while titles of the contributions are detailed in the program by sections.

Duration of the talks (including discussion)

Contributed lectures	1/2 hour
Invited lecture	1 hour
Plenary lecture	1 hour 1/2

In the program by day, the end of the sessions is indicated in this form:

(→ 00:00 am/pm)

for the invited and plenary lectures. The same holds for the symposia.

Examples

– Contributed lecture:

Oscar João ABDOUNUR, *Compounding ratios, theories of ratio and geometry in theoretical music in the 16th century* (section B3)

– Invited lecture:

Steve AWODEY, *Homotopy type theory* (section A3) [→3:45 pm]

– Plenary lecture:

Dag PRAWITZ, *Is there a general concept of proof?* [→10:00 am]

– Symposium (program by day):

SYMPOSIUM: *Epistemological perspectives on the Large Hadron Collider* (section C5) [→12:30 pm]

– Symposium (program by sections):

Symposium

EPISTEMOLOGICAL PERSPECTIVES ON THE LARGE HADRON COLLIDER

Michael STÖLTZNER

– Michael STÖLTZNER, *Higgs models and other stories about mass generation*

– Arianna BORRELLI, *The practice of model-building in contemporary high energy physics: the example of “technicolor”*

– Koray KARACA, *Selectivity and robustness in experimental research: Lessons from the Large Hadron Collider*

Overview

Slots	Tuesday 19	Wednesday 20	Thursday 21	Friday 22	Saturday 23	Sunday 24	Monday 25	Tuesday 26
8:30 AM - 10:00 AM	A2	B1 / B2 C3	Plenary lecture: Huw Price	Plenary lecture: Philippe Mongin	Plenary lecture: Marco de Baar		Plenary lecture: Jeremy Gray	Plenary lecture: Dag Prawitz
10:30 AM - 12:30 PM	A2 B1	B1 / B2 C3 / C5	A1 / A2 / A3 B1 / B2 / B3 C1 / C3 / C4 / C5 <i>IUHPS Joint Commission symp (10:15 - 1:30 & 3:00 - 7:00)</i>	A1 / A2 B1 / B3 C2 / C3 / C4 / C5 / C7 / C8 D <i>Inv Symp (Mathematics and the New Technologies) (10:30 - 1:00) IUHPS Joint Commission symp (10:15 - 2:15)</i>	A1 / A2 / A3 B1 / B3 C1 / C2 / C3 / C5 / C8 D		A2 / A3 B1 / B3 C1 / C2 / C5 / C6 / C8 D	A2 B1 / B3 C1 / C2 / C5
2:15 PM - 4:15 PM	Opening Ceremony Plenary lecture: Wilfrid HODGES	B1 / B2 C3 / C5	A1 / A2 / A3 B1 / B2 / B3 C1 / C3 / C6 <i>Inv symp (Quantum Information) IUHPS Joint Commission symp</i>	A1 / A2 B1 / B3 C1 / C2 / C3 / C5 / C7 / C8 D <i>Inv symp (Evolutionary Models) DLMPS General Assembly</i>	A1 / A2 / A3 B1 / B3 C1 / C2 / C5 / C8 D	Professional meetings	A2 B1 / B3 C1 / C2 / C5 / C6 / C8 D <i>Inv Symp (General Proof Theory)</i>	A2 B1 / B3 C2 / C5 Closing Ceremony
4:35 PM - 7:00 PM		<i>Inv Symp (Algorithm)</i>	A1 / A2 B1 / B3 C1 / C3 <i>Inv symp (Quantum Information) IUHPS Joint Commission symp</i>					
7:00 PM								
Affiliated program	The philosophy of artificial intelligence (Conférences Pierre Duhem)	Logic, knowledge and agency (Beth Fundalton Symposium) + Philosophy of mathematical practice	Climate science and climate change: Epistemological and methodological issues (Symposium Société de Philosophie des Sciences) + Rebuilding Logic and Rethinking Language in Interaction Terms + Logical Modelling: The interface between the formal and the empirical (LogCCC)	Analyzing programs: Logic at rescue (LORIA Symposium) + Logical and philosophical foundations of science and technology (International Institute of Foundational, Interdisciplinary and Historical Problems of Science Symposium) + Methodological problems of technoscience	The logic of opposition + Science and rationality (Symposium Académie Internationale de Philosophie des Sciences) + Ontology between philosophy and computer science		Intuitionistic modal logics	
Social program	Welcome banquet	Tours in Nancy	Tours in Nancy	Tours in Nancy	Tours in Nancy Concerts	Tours in Lorraine and/or Nancy	Tours in Nancy	Farewell banquet
Public program (in French)		Éthique & anthropologie : à propos des cellules souches	L'habitat du futur	Est-il vrai que la Terre tourne ?	Conservatisme et modernité: Frege à Léna et les années d'apprentissage de Carnap		Éthique, mathématiques et finance	

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C – Methodological and Philosophical Issues of Particular Sciences			
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C8	Economics and Social Sciences	A105	92
D – Methodological and Philosophical Issues in Technology		B111	94

Plenary Lectures and Special Sessions

TUESDAY 19

Congress Opening Ceremony *2:00 – 5:00 pm*

Opening Plenary Lecture

Wilfrid HODGES

DLMPs—Tarski’s vision and ours

Chair: Peter SCHROEDER-HEISTER

WEDNESDAY 20

Special Symposium *4:35 – 7:05 pm*

WHAT IS AN ALGORITHM?

Chair: Helmut SCHWICHTENBERG

- Nachum DERSHOWITZ, *What is an effective algorithm?*
- Yuri GUREVICH, *What’s an algorithm?*
- Yiannis MOSCHOVAKIS, *Panel discussion on “What is an algorithm?”*

THURSDAY 21

Plenary Lecture *8:30 – 10:00 am*

Huw PRICE

Retrocausality—what would it take?

Chair: Maria Carla GALAVOTTI

Special Symposium *2:15 – 7:05 pm*

QUANTUM INFORMATION—CONCEPTUAL ISSUES
AND NEW TECHNOLOGICAL DEVELOPMENTS

Chair: Dennis DIEKS

- Hans BRIEGEL, *Simulation, computation, and physics—What can we learn about the world?*
- Jeffrey BUB, *Einstein and Bohr meet Alice and Bob*
- Robert SPEKKENS, *The invasion of physics by information theory*

- Marek ZUKOWSKI, *Bell's Theorem and EPR correlations: the issue, the triumph of the scientific method, misinterpretations, and practical applications*

FRIDAY 22

8:30 – 10:00 am

**European Philosophy of Science Association
Plenary Lecture**

Philippe MONGIN

What the decision theorist could tell the Bayesian philosopher

Chair: Friedrich STADLER

10:30 am – 1:00 pm

Special Symposium

MATHEMATICS AND THE NEW TECHNOLOGIES

Chair: Benedikt LÖWE

- Jean Paul VAN BENDEGEM, *Mathematics in the cloud: the web of proofs*
- Peter KOEPKE, *Formal mathematics and mathematical practice*
- Martina MERZ, *The Internet: New technology in old bottles?*

4:35 – 7:05 pm

Special Symposium

EVOLUTIONARY MODELS IN EPISTEMOLOGY
AND PHILOSOPHY OF SCIENCE

Chair: Elliott SOBER

- Hannes LEITGEB, *Probabilities, conditionals, laws*
- Brian SKYRMS, *Evolution of Signaling*
- Peter VANDERSCHRAAF, *Changing your spots*

SATURDAY 23

8:30 – 10:00 am

Plenary Lecture

Marco DE BAAR

Engineering technical artefacts and scientific instruments

Chair: Anthonie MEIJERS

MONDAY 25**Henri Poincaré Plenary Lecture**

8:30 – 10:00 am

Jeremy GRAY

*“The soul of the fact”: Poincaré and proof***Chair:** Gerhard HEINZMANN**Special Symposium**

4:35 – 7:05 pm

GENERAL PROOF THEORY

Chair: Kosta DOŠEN

- Kosta DOŠEN, *Introductory address*
- William LAWVERE, *Proof theory and presentation of algebras*
- Philip SCOTT, *Remarks on recent categorical proof theory*

TUESDAY 26**Plenary Lecture**

8:30 – 10:00 am

Dag PRAWITZ

*Is there a general concept of proof?***Chair:** Kosta DOŠEN

/Peter SCHROEDER-HEISTER

Closing Ceremony

5:30 – 6:30 pm

**International Union of History and
Philosophy of Science
JOINT COMMISSION SYMPOSIUM**

Development of cognition in technology and technosciences

THURSDAY 21

1 – Understanding through making

On synthetic biology

– Joachim SCHUMMER *10:15 – 11:15 am*

*From synthetic chemistry to synthetic biology:
The revival of the verum factum principle*

– Bernadette BENSUADE-VINCENT *11:15 am – 12:15 pm*

Synthetic biology: The construction of a discipline with interdisciplinary contents

Break *12:15 – 12:30 pm*

General epistemological considerations

– Armin GRUNWALD *12:30 – 1:30 pm*

Nano: The end of the selfunderstanding of the classical natural sciences

Break *1:30 – 3:00 pm*

2 – Coevolution of technology and society

Roundtable: Responsible development of nanotech? *3:00 – 4:30 pm*

Facilitator: Imre HRONSZKY

Participants: Arie RIP, Armin GRUNWALD, Elena PARIOTTI

Break *4:30 – 4:45 pm*

– Appukkuttan Nair DAMODARAN *4:45 – 5:30 pm*

Grand narratives, local minds and natural disasters: Community responses to tsunami

Break *5:30 – 6:00 pm*

Evening Lecture

– Arie RIP *6:00 – 7:00 pm*

How to modulate coevolution of technology and society?

FRIDAY 22**Methodological problems**

- 10:15 – 11:00 am* – Astrid SCHWARZ
Realworld simulation: A conceptual tool for technoscientific field sciences
- 11:00 – 11:45 am* – Gerhard BANSE
Design between science and art. Historical remarks
- 11:45 – 12:00 am* **Break**
- 12:00 – 12:45 pm* – Marc PALLOT
Group cognition within living lab research and innovation, the cycle of experiential knowledge
- 12:45 – 1:30 pm* – Imre HRONSZKY
The use of the technological paradigms conception in history of technology and theoretical economics
- 1:30 – 2:15 pm* **Closing Discussion**

Program by Day

Tuesday 19

8:30 am

Chienkuo MI, *Truth as a semantic switch* (section A2) [room K10/11]

9:00 am

Gemma ROBLES, *The basic constructive logic for weak consistency in the ternary semantics with designated points* (section A2) [room K10/11]

9:30 am

Hartley SLATER, *Quine's other way out* (section A2) [room K10/11]

10:30 am

Alexandru-Viorel MUREȘAN, *The paradoxical context of logical information: The core of the paradoxical context of information and inference* (section A2) [room K10/11]

Mieke BOON, *Why do we need phenomena? What we can learn from the engineering sciences* (section B1) [room DR01]

11:00 am

Barteld KOOI, Allard TAMMINGA, *Lost in translation: The logic of paradox* (section A2) [room K10/11]

Erwan LAMY, *How to talk with a skeptic?* (section B1) [room DR01]

11:30 am

Karine FRADET, *Cooperation in the Prisoner's Dilemma* (section A2) [room K10/11]

12:00 pm

José M. MÉNDEZ, Gemma ROBLES, Francisco SALTO, *On the variable-sharing property and the axiom mingle* (section A2) [room K10/11]

2:00 – 5:00 pm

Congress Opening Ceremony [Grand Amphithéâtre]

Plenary Lecture: Wilfrid HODGES, *DLMPS—Tarski's vision and ours*

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9:00 am – 1:00 pm

SYMPOSIUM “CONFÉRENCES PIERRE DUHEM”: *The philosophy of artificial intelligence* (Affiliated) [room AR05]

Wednesday 20

10:30 am

- [room DR01] **Hans RADDER**, *Does the brain 'initiate' freely willed processes? A critique of Libet-type experiments and their interpretation* (section B1) [→11:30 am]
- [room ER01] **Heather DOUGLAS**, *Scientific integrity in a politicized world* (section B2) [→11:30 am]
- [room C115] **Tim LEWENS**, *Pheneticism reconsidered* (section C3) [→11:30 am]

11:30 am

- [room DR01] **Wolfgang SPOHN**, *A priori principles of reason* (section B1) [→12:30 pm]

12:30 pm

- [room DR01] Holger ANDREAS, *A structuralist theory of belief revision* (section B1)

2:15 pm

- [room DR01] F. A. MULLER, *On an inconsistency in Constructive Empiricism* (section B1)
- [room ER01] Nicolas LECHOPIER, *Epistemethics: Lessons from an ethnographic study of global health research ethics concerning the articulation between research and practice* (section B2)
- [room C115] Jean-Sébastien BOLDUC, *Adaptationism: Behind criticisms and typologies, the tool* (section C3)
- [room AR05] Mathias FRISCH, *Incantations of 'causation' and other philosophical sins, or: Rehabilitating Ritz* (section C5)

2:45 pm

- [room DR01] Inmaculada PERDOMO, *Scientific representation: Uses and interpretation of models* (section B1)
- [room ER01] Anna LEUSCHNER, *Scientific credibility in the public exemplifying climatology: Why it is important, How it is challenged* (section B2)
- [room C115] Walter RIOFRIO, *Cellular dynamics at the beginning of prebiotic world* (section C3)
- [room AR05] Thomas ANGELIDIS, *Special relativity prohibits spacelike causation and some implications* (section C5)

3:15 pm

- [room C115] Manuel de PINEDO GARCÍA, *Individuation for holists: (physical) dispositions and (biological) affordances* (section C3)
- [room AR05] Kent PEACOCK, *Would superluminal influences violate the Principle of Relativity?* (section C5)

3:45 pm

Paolo LATTANZIO, Raffaele MASCELLA, *On informational schemes in biology* (section C3) [room C115]

4:35 pm

SPECIAL SYMPOSIUM: *What is an algorithm?* [→7:05 pm] [Grand Amphithéâtre]

Richard DAWID, *A Bayesian model of no alternative arguments* (section B1) [room DR01]

Erez FIRT, *On emergence and causation* (section B1) [room DR02]

SYMPOSIUM: *Evolution of biological complexity* (section C3) [→7:05 pm] [room C115]

Carl HOEFER, *Mach's principle and the philosophy of space/time: What nature is trying to tell us* (section C5) [room AR05]

5:05 pm

Gerhard SCHURZ, *Bayesian confirmation of creationism? On the problem of genuine confirmation* (section B1) [room DR01]

Kai-Yuan CHENG, *Dispositions, conditionals, and ordinary conditions* (section B1) [room DR02]

Mike TAMIR, *Proving the principle: General relativity and geodesic universality* (section C5) [room AR05]

5:35 pm

Erik P. NYBERG, Kevin B. KORB, *Conditioning and unfaithfulness* (section B1) [room DR01]

Christian Johann FELDBACHER, *A problem for semantic definitions of analyticity* (section B1) [room DR02]

Marko URŠIČ, *Paradoxes of transfinite cosmology* (section C5) [room AR05]

6:05 pm

Wolfgang PIETSCH, *The limits of probabilism* (section B1) [room DR01]

Anna LEUSCHNER, *Pluralism and objectivity: On Longino's and Kitcher's approaches* (section B1) [room DR02]

6:35 pm

Thomas BENDA, *What objective probability could be* (section B1) [room DR01]

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1:30 – 6:00 pm

BETH FOUNDATION SYMPOSIUM: *Logic, knowledge, and agency* (Affiliated) [room K12]

9:00 am – 7:00 pm

ASSOCIATION FOR THE PHILOSOPHY OF MATHEMATICAL PRACTICE SYMPOSIUM: *Philosophy of mathematical practice* (Affiliated) [Amphithéâtre Gény]

Thursday 21

8:30 am – Plenary Lecture

[Grand Amphithéâtre]

Huw PRICE, *Retrocausality—what would it take?* [→10:00 am]

10:15 am – 1:30 pm & 3:00 pm – 7:00 pm

[Amphithéâtre Roblot]

IUHPS Joint Commission Symposium: Development of Cognition in Technology and Technosciences

10:30 am

[room K20]

Martin GROHE, *Logic, structure and complexity* (section A1) [→11:30 am]

[room K10/11]

Virginie FIUTEK, Sujata GHOSH, Sonja SMETS, *Higher-order belief change in a branching-time setting* (section A2)

[room K21]

Roy DYCKHOFF, *Cut-elimination, substitution and normalisation* (section A3)

[room DR01]

SYMPOSIUM: *Calibration in scientific practice* (section B1) [→1:00 pm]

[room DR02]

SYMPOSIUM: *Integrity and diversity of traditions and trends in today's philosophy of science* (section B1) [→1:00 pm]

[room ER01]

Hugh LACEY, *On the co-unfolding of scientific knowledge and viable values* (section B2) [→11:30 am]

[room AR06]

Yemima BEN-MENACHEM, *Verificationism and scepticism* (section B3) [→11:30 am]

[room K30]

SYMPOSIUM: *Philosophy of mathematical practice* (section C1) [→1:00 pm]

[room C115]

Michel MORANGE, *The rise of post-genomics and epigenetics: Continuities and discontinuities in the history of biological thought* (section C3) [→11:30 am]

[room K31]

Davis BAIRD, *Many ways of knowing* (section C4) [→11:30 am]

[room AR05]

Pandora HADZIDAKI, *Bohr's model of the atom: Methodology, consistency and fruitfulness* (section C5)

11:00 am

[room K10/11]

Barteld KOOI, *Information change and first-order dynamic logic* (section A2)

[room K21]

Michał KRYNICKI, Jerzy TOMASIK, Konrad ZDANOWSKI, *Logical properties of finite arithmetics* (section A3)

[room AR05]

Albert SOLÉ, *Bohmian mechanics without wave function ontology* (section C5)

11:30 am

[room K20]

Jaime GASPAS, *Copies of classical logic in intuitionistic logic* (section A1)

[room K10/11]

Lorenz DEMEY, *Neighborhood semantics for dynamic epistemic logics* (section A2)

[room K21]

Giuseppe PRIMIERO, *Modal types and their procedural semantics for contextual computing* (section A3)

[room ER01]

Masahiro MATSUO, *Where the opposition to value-free science should be revised* (section B2)

- Renata ZIEMINSKA, *Inconsistency of ancient skepticism* (section B3) [room AR06]
 Emmanuel D'HOMBRES, *The Darwinian muddle on the 'Division of physiological labor': An attempt of clarification* (section C3) [room C115]
Alfred NORDMANN, *Knowing and making in an impure science* (section C4) [room K31]
 [→12:30 pm]
 Iñaki SAN PEDRO, *Causal relevance of measurement operations in the EPR paradox* (section C5) [room AR05]

12:00 pm

- Valery KHAKHANIAN, *Properties of universes in realizability models for intuitionistic set theory and its corollaries* (section A1) [room K20]
 Nicolas CLERBOUT, *Modal dialogical logic, validity and universal satisfiability* (section A2) [room K10/11]
 Jeu-Jenq YUANN, *The futility of prescribing what scientists should do: Supplementing van Fraassen's empirical stance with scientific practices* (section B1) [room DR01]
 Charles WOLFE, *From substantial to functional vitalism and beyond in biomedical thought: Animas, organisms and attitudes* (section C3) [room C115]
 F. A. MULLER, *Circumveiled by obscuritads* (section C5) [room AR05]

12:30 pm

- Martín LABARCA, Olimpia LOMBARDI, *The ontological autonomy of the chemical world: Further arguments* (section C4) [room K31]
 Neil KENNEDY, *The ways of modality: On the notion of higher-order modality* (section A2) [room K10/11]
 Anna ESTANY, *The stabilizing role of material structure in scientific practice* (section B1) [room DR01]
 Lev VAIDMAN, *The past of a quantum particle* (section C5) [room AR05]

2:15 pm

- SPECIAL SYMPOSIUM: Quantum information—conceptual issues and new technological developments** [→7:05 pm] [Grand Amphithéâtre]
Justin MOORE, *The proper forcing axiom* (section A1) [→3:15 pm] [room K20]
 Frederik VAN DE PUTTE, *Adaptive belief contraction* (section A2) [room K10/11]
 Mateusz RADZKI, *Non-Fregean logic and Ludwig Wittgenstein's early insight into application of logic* (section A2) [room K01]
Étienne GRANDJEAN, *How tightly close descriptive and computational complexity are: a personal view* (section A3) [→3:15 pm] [room K21]
Carlo CELLUCCI, *Philosophy of mathematics: Making a fresh start* (section B1) [→3:15 pm] [room DR01]
 Katarzyna GAN-KRZYWOSZYŃSKA, Piotr LEŚNIEWSKI, *On rationality, irrationality and counterrationality in dynamics of knowledge* (section B2) [room ER01]
 SYMPOSIUM: *Thomas Kuhn's 'The Structure of Scientific Revolutions': Interpretations and developments* (section B3) [→4:15 pm] [room AR06]

- [room K30] Dale MILLER, *Synthetic connectives and their proof theory* (section C1) [→3:15 pm]
 [room C115] Íñigo ONGAY, *A materialist account of scientific reasoning in ethology* (section C3)
 [room K31] Renzong QIU, *Ontological and moral status of human-nonhuman animal mix organisms* (section C6)

2:45 pm

- [room K10/11] Joke MEHEUS, *Adaptive deontic logics for various types of normative conflicts* (section A2)
 [room K01] Ioan SCHEAU, *The errors of Bertrand Russell* (section A2)
 [room ER01] Witold STRAWINSKI, *Philosophy of science and ethical issues—from a Warsaw perspective* (section B2)
 [room C115] Lukasz LAMZA, *Computational biophysics as a case against intertheoretic reduction* (section C3)
 [room K31] Xiaomei ZHAI, *Philosophical and ethical issues in use or abuse of human body and its parts in biomedical technologies* (section C6)

3:15 pm

- [room K20] Riccardo BRUNI, Peter SCHUSTER, *Approximating Beppo Levi's principio di approssimazione* (section A1)
 [room K10/11] Christian STRASSER, *An adaptive approach to detachment in conditional logics of normality* (section A2)
 [room K21] Christof LÖDING, *Uniformization in automata theory* (section A3) [→4:15 pm]
 [room DR01] Petros STEFANEAS, Ioannis M. VANDOULAKIS, *Proofs as spatio-temporal processes* (section B1)
 [room ER01] Vladimir LOBOVIKOV, *Science, episteme and mathematical ethics (A law of contraposition of episteme in algebra of formal ethics)* (section B2)
 [room K30] Luis ESTRADA-GONZÁLEZ, *On the meaning of connectives (Apropos of a non-necessitarianist challenge)* (section C1)
 [room C115] Christian SACHSE, *Conservative reduction of biology* (section C3)

3:45 pm

- [room K20] Michael ARNDT, Laura TESCONI, *Constructing a proof-tree: An investigation on composition of derivations* (section A1)
 [room K10/11] Peter VERDEE, *Towards non-monotonic mathematics: Adaptive logic theories as a pragmatic foundation for mathematics* (section A2)
 [room DR01] Fabio STERPETTI, *Towards a non-adaptationist approach to mathematics* (section B1)
 [room ER01] Kelly KOIDE, *Scientific methods and strategies of research: A plurality of paths to the objectives of science* (section B2)
 [room AR06] Daniel KUBY, *A source of Feyerabend's decision-based epistemology: Hugo Dingler's voluntarism* (section B3)
 [room K30] Hervé BARREAU, *Lukasiewicz and Lorenzen as interpreters of Aristotle's assertoric syllogistic* (section C1)
 [room C115] Rong-Lin WANG, *On Rosenberg's Darwinian reductionism* (section C3)

4:35 pm

- Joseph S. MILLER**, *Beyond the Turing degrees: Non-diagonalizability and universal randomness* (section A1) [\rightarrow 5:35 pm] [room K20]
- SYMPOSIUM: *Hyperintension, intension, extension* (section A2) [\rightarrow 7:05 pm] [room K10/11]
- Elliott SOBER, Mike STEEL, *Screening-off (aka the Markov property) and causal incompleteness—a no-go theorem* (section B1) [room DR01]
- Helmut HEIT, *Reasons for relativism. Feyerabend on early Greek thought* (section B1) [room DR02]
- SYMPOSIUM: *A plurality of currents in today's historical epistemologies* (section B3) [\rightarrow 7:05 pm] [room AR06]
- Philippe ROUILHAN (DE), *Remarks on recursive definitions of truth* (section C1) [room K30]
- Maël LEMOINE, *Function as a causal role in a biological model* (section C3) [room C115]

5:05 pm

- Raphael SCHOLL, *Causal inference, mechanisms and the semmelweis case* (section B1) [room DR01]
- Yasuo NAKAYAMA, *Scientific progress as increase of expressibility, accuracy and coherence* (section B1) [room DR02]
- Marcos SILVA, *Muss Logik für sich selbst sorgen? On contrary propositions and material logical truth as problems to the neutrality of logic* (section C1) [room K30]

5:35 pm

- Paulo OLIVA**, *Gödel's functional interpretation of classical arithmetic and analysis* (section A1) [\rightarrow 6:35 pm] [room K20]
- Uwe SCHEFFLER, Max URCHS, *Both billiard ball and butterfly?* (section B1) [room DR01]
- Alberto CORDERO, *Accumulation of theory parts and meaning variance* (section B1) [room DR02]
- Libor BEHOUNEK, *Fuzzy logics as the logics of linearly decomposable resources* (section C1) [room K30]
- Tarja KNUUTTILA, Andrea LOETTIGERS, *Modeling/experimenting? The combinatorial strategy in synthetic biology* (section C3) [room C115]

6:05 pm

- Alexander GEBHARTER, *Determining causal relevancies at event-level* (section B1) [room DR01]
- Myhailo MARCHUK, *Externalism, internalism and the conception of the socio-cognitive potentialism* (section B1) [room DR02]
- Piotr WILKIN, *How formalized are informal proofs?* (section C1) [room K30]
- Laura NUÑO DE LA ROSA, *Modelling development and evolution in three dimensions* (section C3) [room C115]

6:35 pm

- [room DR01] Raffaella CAMPANER, *Mechanistic and neo-mechanistic accounts of causation: How Salmon Already got (much of) it right* (section B1)
- [room DR02] Kevin ZOLLMAN, Erich KUMMERFELD, *Conservatism in scientific research: A new problem* (section B1)
- [room K30] Peter GABROVSKY, *EXLOG: A non-standard logic programming language for experiment based research* (section C1)
- [room C115] Stefan PETKOV, *The fitness landscape metaphor: Dead but not gone* (section C3)

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10:30 am – 6:30 pm

- [Amphithéâtre Gény] LOCI SYMPOSIUM: *Rebuilding logic and rethinking language in interaction terms* (Affiliated)

11:00 am – 6:45 pm

- [room K12] AFFILIATED SYMPOSIUM OF THE EUROCoRES PROGRAMME LOGICCC: *Logical modelling: The interface between the formal and the empirical* (Affiliated)

10:10 am – 6:00 pm

- [room B112–B113] SOCIÉTÉ DE PHILOSOPHIE DES SCIENCES SYMPOSIUM: *Climate science and climate change: Epistemological and methodological issues* (Affiliated)

Friday 22

8:30 am – Plenary Lecture

Philippe MONGIN, *What the decision theorist could tell the Bayesian philosopher* [→10:00 am] [Grand Amphithéâtre]

10:15 am – 2:15 pm

IUHPS Joint Commission Symposium: Development of Cognition in Technology and Technosciences [Amphithéâtre Roblot]

10:30 am

SPECIAL SYMPOSIUM: Mathematics and the new technologies [→1:00 pm] [Grand Amphithéâtre]
Simon THOMAS, *Martin’s conjecture and countable Borel equivalence relations* [room K20]

Dag WESTERSTÅHL, *The importance of compositionality* (section A2) [→11:30 am] [room K10/11]

Arto MUTANEN, *Interrogative model of inquiry as a logic of experiment* (section B1) [room DR01]

Saray AYALA, *How can a purely cognitive philosophy of science deal with social biases? Embodied, situated and distributed cognition to the rescue!* (section B1) [room DR02]

SYMPOSIUM: Confronting French roots and current historical epistemologies (section B3) [→1:00 pm] [room AR06]

Marcin MILKOWSKI, *Computational mechanisms and models of computation* (section C2) [room B112/113]

Andreea EȘANU, *An argument against the evolutionary contingency thesis* (section C3) [room C115]

Rein VIHALEMM, *Philosophy of chemistry against standard scientific realism and anti-realism* (section C4) [room K31]

Roman FRIGG, *Explaining the approach to equilibrium in terms of epsilon-ergodicity* (section C5) [→11:30 am] [room AR05]

Kevin ELLIOTT, *The nature and significance of selective ignorance in environmental research* (section C7) [→11:30 am] [room ER01]

Don ROSS, *The evolution and strategic dynamics of individualistic norms* (section C8) [→11:30 am] [room A105]

Wendy PARKER, *The target of testing: Models, adequacy and scientific knowledge* (section D) [room B111]

11:00 am

Eduardo CASTRO, *Laws of nature and induction* (section B1) [room DR01]

Fred ADAMS, *Extended cognition meets epistemology* (section B1) [room DR02]

Patrice SOOM, *On levels of mechanisms* (section C2) [room B112/113]

Donato BERGANDI, *Ecology, evolution, ethics: In search of a meta-paradigm* (section C3) [room C115]

Jean-Pierre LLORED, *Relational philosophy as root for the epistemology of chemistry* (section C4) [room K31]

11:30 am

- [room K20] Newton M. PERON, *A generalization of Dugundji theorem* (section A1)
- [room K10/11] Iancu LUCICA, *Logic of paraconsistent concepts* (section A2)
- [room DR01] Joseph BRENNER, *A new logic for new technology* (section B1)
- [room DR02] Zenaida YANES-ABREU, *Veritistic social epistemology. A reliable proposal?* (section B1)
- [room B112/113] Dairon RODRIGUEZ, Jorge HERMOSILLO, Bruno LARA, *The Chinese room argument and the symbol grounding problem: A new perspective* (section C2)
- [room C115] Jean GAYON, *Economic natural selection: What concept of selection?* (section C3)
- [room AR05] Graziana CONTE, *Information measures induced by partial Boolean algebras* (section C5)
- [room ER01] Constantin STOENESCU, *A new way of thinking in environmental sciences* (section C7)
- [room A105] Chrysostomos MANTZAVINOS, *Which theory of explanation for the social sciences? Unificationist, mechanistic or manipulationist?* (section C8)
- [room B111] Marcello FRIXIONE, Antonio LIETO, *Formal ontologies and semantic technologies: A “dual process” proposal for concept representation* (section D)

12:00 pm

- [room K20] Taishi KURAHASHI, *On Kripke frames and arithmetical interpretations for QGL* (section A1)
- [room K10/11] Can BAŞKENT, *Homotopies in classical and paraconsistent modal logics* (section A2)
- [room DR01] Anjan CHAKRAVARTY, *Pluralistic ontologies for scientific realism* (section B1)
- [room DR02] Cyrille IMBERT, *Collective science: The loss of scientific understanding?* (section B1)
- [room B112/113] Samuli PÖYHÖNEN, *Should I split or should I lump? The epistemic-tool approach to scientific concept formation* (section C2)
- [room K31] Alexander PECHENKIN, *The paradigm changes in the study in the Belousov-Zhabotinsky reaction* (section C4)
- [room AR05] Louis VERVOORT, *Probability is composed. The frequency interpretation of probability revisited* (section C5)
- [room ER01] Michael POZNIC, Rafaela HILLERBRAND, *Climate science or climate fiction? The role of fictional elements in physics and in Earth sciences* (section C7)
- [room B111] Baptiste MÉLÈS, *Nominalism of things and nominalism of events, from Turing Machines to functional programming* (section D)

12:30 pm

- [room C115] Hisashi NAKAO, Edouard MACHERY, *The evolution of punishment* (section C3)
- [room B112/113] Delphine BLITMAN, *What linguistic nativism tells us about innateness* (section C2)

2:15 pm

- Patrick SPEISEGGER, *Solving equations by quadratures using Model Theory* (section A1) [\rightarrow 3:15 pm] [room K20]
- Wen-fang WANG, *Against classical dialetheism* (section A2) [room K10/11]
- Albert J. J. ANGLBERGER, *An axiomatization of Paul Weingartner's 6-valued deontic logic and a result concerning its possible extensions* (section A2) [room K01]
- Demetris PORTIDES, *Scientific representation, denotation, and explanatory power* (section B1) [room DR01]
- Sandrine DARSEL, *What do we learn from case studies?* (section B1) [room DR02]
- Başak ARAY, *Neurath on pictures, language and international communication* (section B3) [room AR06]
- SYMPOSIUM: *Are aesthetic approaches in Philosophy of mathematics topical?* (section C1) [\rightarrow 3:45 pm] [room K30]
- Jerry YANG, *In defense of a multiple content structure of self-representationalism* (section C2) [room B112/113]
- Hsien-I CHIU, Bo-Chi G. LAI, *A moderate solution to the debate over species concept* (section C3) [room C115]
- Emboussi NYANO, *Einstein's philosophy and post-critical philosophy of science* (section C5) [room AR05]
- Rodolfo HERNANDEZ, *Let the water flow to the City: A recent history of the water saving technologies for agriculture in China* (section C7) [room ER01]
- SYMPOSIUM: *Duality within human sciences* (section C8) [\rightarrow 3:45 pm] [room A105]
- Christopher EVANS, *Technoscience: Illuminating new blue skies* (section D) [room B111]

2:45 pm

- Vladimir POPOV, Vasilyi SHANGIN, *In the vicinity of Sette logic* (section A2) [room K10/11]
- Paul WEINGARTNER, *Decidable many-valued logic for the application in empirical sciences* (section A2) [room K01]
- Conor MAYO-WILSON, *Efficient experimentation* (section B1) [room DR01]
- Jeff KOCHAN, *Reason, emotion, and the context distinction* (section B1) [room DR02]
- Artur KOTERSKI, *The unimportance of Quine's 'Two Dogmas of Empiricism'* (section B3) [room AR06]
- Xiaoli LIU, *Representation and action: A theory of representation in the evolution-embodied cognition context* (section C2) [room B112/113]
- Jane MAIENSCHIN, *Are embryos what we thought they were, and how do we know?* (section C3) [room C115]
- Naoum DAHER, *From independent models to a unified theory of dynamics* (section C5) [room AR05]
- Joel KATZAV, *Hybrid models, climate models and inference to the best explanation* (section C7) [room ER01]
- Insok KO, *How to recycle Asimov's laws in roboethics: An intermediate suggestion* (section D) [room B111]

3:15 pm

- [room K20] Thomas STUDER, *Dynamic justification logic* (section A1)
- [room K10/11] Mathieu VIDAL, *For a Popperian theory of conditionals* (section A2)
- [room K01] José MARTÍNEZ FERNÁNDEZ, Rafael BENEYTO TORRES, *On some natural four-valued generalizations of Kleene logic* (section A2)
- [room DR01] Molly KAO, *From foundation to function: Rethinking the role of data in science* (section B1)
- [room DR02] Samir GORSKY, *The logic of surprise: Puzzle, quantum games and information* (section B1)
- [room AR06] Alexander FURSOV, *Theory underdetermination: The history of science perspective* (section B3)
- [room B112/113] Krystyna BIELECKA, *Are radical externalism and radical internalism the same?* (section C2)
- [room C115] Jon UMEREZ, *Epistemological reconstruction of the concept of level. Some preliminaries and a proposal* (section C3)
- [room AR05] Leba SLEIMAN, *Problems and promises of scientific method* (section C5)
- [room B111] Nicolas DELHOPITAL, *Science, technology and society. An attempt to think their link through Maurice Blondel's (1861-1949) Philosophy of Action* (section D)

3:45 pm

- [room K20] Valeria DE PAIVA, *Lorenzen games for full intuitionistic linear logic* (section A1)
- [room K10/11] Xunwei ZHOU, *Material implication v. mutually inverse implication* (section A2)
- [room K01] Fabien SCHANG, *Logic as consequence in opposition* (section A2)
- [room DR01] Frederick EBERHARDT, *Scientist vs. nature—Priors, strategies and discovery* (section B1)
- [room DR02] Simone CHELI, *Neither between nor within: Selfhood and otherness in epistemology* (section B1)
- [room AR06] Pascale ROURE, *History of sciences and language criticism : A cross-referenced reading of Ernst Mach and Fritz Mauthner* (section B3)
- [room K30] Francesca BOCCUNI, *Plural logicism* (section C1)
- [room B112/113] Manuel LIZ, Margarita VÁZQUEZ, *Two approaches to the notion of point of view* (section C2)
- [room C115] Jonathan BIRCH, *Is the concept of life response-dependent?* (section C3)
- [room AR05] Sandra MOLS, *Going round the lack of time: Enforced entrusting and silent inter-expertise trading in time-short nanomagnetism knowledge making* (section C5)

4:35 pm

- [room K10/11] SYMPOSIUM: *The meaning of axioms: From mathematics to logic* (section A2) [→7:05 pm]
- [Grand Amphithéâtre] INVITED SYMPOSIUM: *Evolutionary models in epistemology and philosophy of science* (section B1) [→7:05 pm]

- SYMPOSIUM: *Carnap's linguistic pluralism and scientific methodology* (section B3) [→6:35 pm] [room AR06]
- Andrea SERENI, Marco PANZA, *On the indispensable premises of indispensability arguments* (section C1) [room K30]
- Yannick CHIN-DRIAN, *A naive realist view of colour* (section C2) [room B112/113]
- Arnaud MAYRARGUE, *An illustration of the importance of the epistemological point of view and of the context in Sciences: the astronomical refraction case during the 18th century* (section C5) [room AR05]
- SYMPOSIUM: *Decision theory in economics: Between logic and psychology* (section C8) [→6:05 pm] [room A105]
- Manjari CHAKRABARTY, *An inquiry into the character of material artifacts* (section D) [room B111]
- 5:05 pm**
- Min TANG, *Ontology without abstract objects: A naturalistic defense of revolutionary fictionalism* (section C1) [room K30]
- Lieven DECOCK, *Reflectance physicalism and contrast colours* (section C2) [room B112/113]
- Vassilios KARAKOSTAS, *Correspondence truth and quantum mechanics* (section C5) [room AR05]
- Yamina BETTAHAR, Benoît ROUSSEL, *Production of intermediary objects in a collaborative network: Examples of impact on tools and methods in engineering innovation* (section D) [room B111]
- 5:35 pm**
- Gabriel TÂRZIU, *What can science tell us about mathematical objects?* (section C1) [room K30]
- Yanxia FENG, *Emergent, mental causation and downward causation* (section C2) [room B112/113]
- Johannes ROEHL, *Forces—relations or dispositions?* (section C5) [room AR05]
- Pawel GARBACZ, *Artefacts and family resemblance* (section D) [room B111]
- 6:05 pm**
- Matteo COLLODEL, *Carnap's vision or: How we can learn from the past and enlighten the future of the philosophy of science* (section B3) [room AR06]
- Simon FRIEDERICH, *Motivating Wittgenstein's perspective on mathematical sentences as norms* (section C1) [room K30]
- Raquel Anna SAPUNARU, *Leibniz symmetry and harmony* (section C5) [room AR05]
- Margarita VÁZQUEZManuelLiz, *Models, commentaries, and theories* (section D) [room B111]
- 6:35 pm**
- Kenneth AIZAWA, *The autonomy of psychology in the age of neuroscience* (section C2) [room B112/113]
- Steffen DUCHEYNE, *Testing universal gravitation in the laboratory, or the significance of research on the mean density of the Earth and Big G, 1798-1898* (section C5) [room AR05]

7:00 pm

*[Grands salons –
Hôtel de ville de Nancy]*

DLPMS General Assembly [→9:30 pm]

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10:15 am – 4:45 pm

[room K12]

LORIA SYMPOSIUM: *Analysing programs: Logic at rescue* (Affiliated)**Timetable to be announced**

[Amphithéâtre Gény]

INTERNATIONAL INSTITUTE OF FOUNDATIONAL, INTERDISCIPLINARY AND HISTORICAL PROBLEMS OF SCIENCE SYMPOSIUM: *Logical and philosophical foundations of science and technology—historical development, contemporary investigations, and perspectives* (Affiliated)**Timetable to be announced**

[room t.b.a.]

SYMPOSIUM: *Methodological problems of technoscience* (Affiliated)

Saturday 23

8:30 am – Plenary Lecture

Marco DE BAAR, *Engineering technical artefacts and scientific instrument* [Grand Amphithéâtre]
[→10:00 am]

10:30 am

Julia KNIGHT, *Comparing classes of structures* (section A1) [room K20]

SYMPOSIUM: *Proof theory, meaning and paradoxes* (section A2) [→12:30 pm] [room K10/11]

Christopher HITCHCOCK, *Cause and chance* (section B1) [→11:30 am] [room DR01]

Martin CARRIER, *On the question dynamics of research: Modes of finding and losing research topics in science* (section B3) [→11:30 am] [room AR06]

Jean-Pierre MARQUIS, *Mathematical abstraction, variation and identity* (section C1) [→11:30 am] [room K30]

Ulrike HAHN, *Measuring argument strength: A Bayesian approach* (section C2) [→11:30 am] [room B112/113]

Thomas REYDON, *Addressing a theory-practice gap: What can kind essentialism contribute to understanding classificatory practices in biology?* (section C3) [→11:30 am] [room C115]

Miklos REDEI, *Einstein meets von Neumann: operational separability and operational independence in algebraic quantum field theory* (section C5) [→11:30 am] [room AR05]

Uskali MÄKI, *Scientific realism and disciplinary diversity: Revisionist remarks* (section C8) [→11:30 am] [room A105]

Peter KROES, *Knowledge and the design and making of technical artefacts* (section D) [→11:30 am] [room B111]

11:00 am

Edit TALPSEPP, *Essentialism, Darwinism and theory theory* (section C3) [room C115]

11:30 am

Sheila VELOSO, Paulo VELOSO, Paula VELOSO, *On Piaget-like monoids: Monoids for logics* (section A1) [room K20]

Alessandra MELAS, *The contemporary notion of chance and Salmon's interactive Fork Model. An attempt to describe chance by means of some causal criterion* (section B1) [room DR01]

Susan VINEBERG, *Explanation and two kinds of investigation in the foundations of mathematics* (section C1) [room K30]

Mariusz URBAŃSKI, Joanna URBAŃSKA, *Abduction and rumormongering to the most coherent interpretation* (section C2) [room B112/113]

Pablo LORENZANO, *The status of the Hardy-Weinberg law* (section C3) [room C115]

Tomasz BIGAJ, *How to exchange quantum particles of the same type* (section C5) [room AR05]

Sven Ove HANSSON, *What is so special with technological science?* (section D) [room B111]

12:00 pm

- [room K20] Andrea CANTINI, Laura CROSILLA, *On constructive set theories with operations and related problems* (section A1)
- [room K10/11] Hsin-Mei LIN, *Is the sensitive principle or the safety principle enough?* (section A2)
- [room B112/113] Shushan CAI, Hongguang ZHANG, *The role of abduction in learning and cognition* (section C2)
- [room AR05] Elena CASTELLANI, *Fundamentality, elementariness and scales* (section C5)

1:45 pm

- [room DR01] Gary FULLER, *Narrative explanations* (section B1)

2:15 pm

- [room K20] Christian WALLMANN, *Semantics for Tarskian consequence operations* (section A1)
- [room K10/11] Thomas PIECHA, Wagner de Campos SANZ, *Constructive semantics and classical logic* (section A2)
- [room K01] Stephen READ, *Proof-theoretic validity* (section A2)
- [room K21] Steve AWODEY, *Homotopy type theory* (section A3) [→3:15 pm]
- [room DR01] Roman ROSHKULETS, *Metaphysical aspects of postpositivism* (section B1)
- [room DR02] Aidan LYON, *Why normal distributions are normal* (section B1)
- [room AR06] Silvia DE BIANCHI, *Symmetry and the enigma of space and time. Reflections on the origin of gauge theory* (section B3)
- [room K30] Amirouche MOKTEFI, *Representing the ‘universe of discourse’: historical origin and philosophical relevance of a graphical convention in mathematics and logic* (section C1)
- [room B112/113] Yan GONG, *Is rational-emotive behavior theory based on the methodology of critical rationalism?* (section C2)
- [room C115] Hsiao-Fan YEH, *Why the classical Mendelian genetics are necessary? — A comparison of Lindley Darden’s mechanism approach with C. Kenneth Waters’ genetic approach* (section C3)
- [room AR05] Robert DISALLE, *Explanation, explication, and interpretation of space-time theories* (section C5)
- [room A105] Wei WANG, *Are there laws in the social sciences?* (section C8)
- [room B111] SYMPOSIUM: *Artefact functions* (section D) [→15:45 pm]

2:45 pm

- [room K20] Karolina KUZICHEVA, Alexander KUZICHEV, *Two-level version of sequential logic: completeness and consistency aspects* (section A1)
- [room K10/11] Bartosz WIECKOWSKI, *Lorenzen dialogues and sequent calculus: Equivalence, correspondence, and cut* (section A2)
- [room K01] Diderik BATENS, *The consistency of Peano arithmetic: Why bother?* (section A2)
- [room DR01] Matteo MORGANTI, *Science-based metaphysics: On some recent anti-metaphysical claims* (section B1)

- Dragos BIGU, *A similarity based model of scientific concept formation* (section B1) [room DR02]
 Shinji IKEDA, *Gödel and Leibniz on concepts and relations* (section B3) [room AR06]
 Jean-Marie CHEVALIER, *Are mathematics and logic sciences of observation? A semi-otic approach to visual thinking* (section C1) [room K30]
 Simone DUCA, *The suppositional Ramsey test in decision making* (section C2) [room B112/113]
 Ellen CLARKE, *Biological individuality in plants and beyond—a reconciliation for the genet-ramet dispute* (section C3) [room C115]
 Mauro DORATO, *How to combine (and not to combine) metaphysics with physics* (section C5) [room AR05]
 Ana Maria TALAK, *Reconsidering values in assessing the progress of historiography of psychology* (section C8) [room A105]

3:15 pm

- Roberto CIUNI, Andreas PIETZ, *Which constructive negation for falsificationism?* (section A2) [room K10/11]
 Werner STELZNER, *Semantic foundations for the logic of assent* (section A2) [room K01]
 Tor SANDQVIST, *Computability theory in relation-algebraic form* (section A3) [room K21]
 Majid DAVOODY BENI, *On the ontology of linguistic frameworks: Toward a comprehensive version of empiricism* (section B1) [room DR01]
 Xavier DE DONATO RODRÍGUEZ, *Idealization, scientific modeling and simulations: A new analysis of idealization as a common framework for the study of models and simulations* (section B1) [room DR02]
 Ioannis M. VANDOULAKIS, *On A.A. Markov's attitude towards Brouwer's intuitionism* (section B3) [room AR06]
 Ralf KRÖMER, *The duality of space and function, and category-theoretic dualities* (section C1) [room K30]
 Nimrod BAR-AM, *Towards a rational theory of communication* (section C2) [room B112/113]
Michael FRIEDMAN, *Einstein and the A Priori* (section C5) [→4:15 pm] [room AR05]
 Michel BOURDEAU, *Two conflicting ideas upon the nature and the goals of man's action upon social phenomena* (section C8) [room A105]

3:45 pm

- Wagner de Campos SANZ, Thomas PIECHA, *The BHK interpretation and extensions of NJ* (section A2) [room K10/11]
 Michael ARNDT, *Localising logical rules in the sequent calculus* (section A2) [room K01]
 David MCELHOES, *Difference-making and ontological explanation* (section B1) [room DR01]
 Ashley Graham KENNEDY, *Idealization and inference: How false models explain* (section B1) [room DR02]
 Georg SCHIEMER, *Semantics in type theory* (section B3) [room AR06]
 Arne SEEHAUS, Martin ZIEGLER, *Raise and fall of scientific branches: On progress in mathematics* (section C1) [room K30]
 In-Rae CHO, *Reassessing the rationality war* (section C2) [room B112/113]

[room A105] Romulus BRANCOVEANU, *Weber's and Pareto's theories as methodological programs* (section C8)

[room B111] Luca DEL FRATE, *Technical malfunction in terms of states and events* (section D)

4:35 pm

[room K10/11] SYMPOSIUM: *New directions in dialogical logics* (section A2) [→7:05 pm]

[room K21] SYMPOSIUM: *Proof systems at the test of computer science: Foundational and applicational encounters* (section A3) [→7:05 pm]

[room DR01] José L. FALGUERA, *Identity of scientific concepts and theoretical dependence* (section B1)

[room DR02] SYMPOSIUM: *The interpretation and scope of models of complex systems* (section B1) [→7:05 pm]

[room AR06] Dagmar PROVIJN, *A study of analogical reasoning based on William Harvey's problems and analogies* (section B3)

[room K30] Elaine LANDRY, *The genetic versus the axiomatic method: Resolving Feferman '77* (section C1)

[room B112/113] Gonzalo MUNÉVAR, *Damasio, self and consciousness* (section C2)

[room AR05] Pierre UZAN, *Quantum theory beyond physics* (section C5)

[room A105] SYMPOSIUM: *Business ethics and analytic philosophy* (section C8) [→7:05 pm]

5:05 pm

[room DR01] Ruey-Lin CHEN, *A theoretical analogy: How is Darwin's theory of natural selection analogous to Malthus' theory of population* (section B1)

[room AR06] Zuraya MONROY-NASR, *Cartesian forces in a soulless physics* (section B3)

[room K30] Ahti-Veikko PIETARINEN, *A realist modal-structuralism* (section C1)

[room B112/113] Sascha Benjamin FINK, *How to falsify an NCC of specific conscious content* (section C2)

[room AR05] Morgan TAIT, *The case for quantum state realism* (section C5)

5:35 pm

[room DR01] Ioannis VOTSIS, *Simplicity as a guide to falsity?* (section B1)

[room K30] Jacobo ASSE, *Pluralism and mathematical objects* (section C1)

[room B112/113] Igor NEVVAZHAY, *Dual nature of consciousness* (section C2)

[room AR05] Wayne MYRVOLD, *Prospects for quantum state monism* (section C5)

6:05 pm

[room DR01] Maria CAAMANO, *Theory success: Some evaluative clues* (section B1)

[room AR06] Hassan TAHIRI, *Ibn al-Haytham's al-Shukuk or the art of controversy: How the eleventh century Arabic scientist's arguments changed astronomy forever* (section B3)

[room K30] Michèle FRIEND, *Presenting pluralism in mathematics* (section C1)

Hernan MIGUEL, *The causal closure of the physical and the variable realization* (section C2) [room B112/113]

Juan Sebastián ARDENGHI, Sebastian FORTIN, Olimpia LOMBARDI, *The conceptual meaning of reduced states: Decoherence and interpretation* (section C5) [room AR05]

6:35 pm

Anna IJJAS, *Theory vs. interpretation: From a methodological point of view* (section B1) [room DR01]

Oscar João ABDOUNUR, *Compounding ratios, theories of ratio and geometry in theoretical music in the 16th century* (section B3) [room AR06]

Błażej SKRZYPULEC, *The concept of "object" in the visual binding theories* (section C2) [room B112/113]

Paul NÄGER, *Why quantum non-locality implies parameter dependence* (section C5) [room AR05]

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9:00 am – 5:30 pm

N.O.T. SYMPOSIUM: *The logic of opposition* (Affiliated) [room K12]

3:00 – 6:00 pm

INTERNATIONAL ACADEMY FOR PHILOSOPHY OF SCIENCE SYMPOSIUM: *Science and rationality* (Affiliated) [Amphithéâtre Roblot]

Timetable to be announced

ONTOLOGY SYMPOSIUM: *Ontology between philosophy and computer science* (Affiliated) [Amphithéâtre Gény]

Monday 25

8:30 am – Plenary Lecture

[Grand Amphithéâtre] **Jeremy GRAY**, “*The soul of the fact*”: *Poincaré and proof* [→10:00 am]

10:30 am

- [room K10/11] Corina STRÖSSNER, *A quantitative logic of normality* (section A2)
- [room K01] Michel PAQUETTE, *Illocutionary logic and social interaction: Speech acts and the conversational record* (section A2)
- [room K21] **Ulrich BERGER**, *Coinduction and program extraction in computable analysis* (section A3) [→11:30 am]
- [room DR01] Milena IVANOVA, *Is the relativized a priori incompatible with scientific realism?* (section B1)
- [room DR02] Oded BALABAN, *Cartography revisited: A key to understanding scientific knowledge* (section B1)
- [room AR06] João PRINCIPLE, *Kantian aspects of Poincaré’s epistemological thoughts on XIXth century physics* (section B3)
- [room K30] Sorin COSTREIE, *Frege on contentful mathematics* (section C1)
- [room B112/113] **Cristiano CASTELFRANCHI**, *Grounding social theory on action and cognition* (section C2) [→11:30 am]
- [room AR05] **Craig CALLENDER**, *The flow of space?* (section C5) [→11:30 am]
- [room K31] **Miriam SOLOMON**, *Evidence-based medicine and mechanistic reasoning in the case of cystic fibrosis* (section C6) [→11:30 am]
- [room A105] **Donald MACKENZIE**, *The credit crisis as a problem in the sociology of knowledge* (section C8) [→11:30 am]
- [room B111] **Roger COOKE**, *Applications of philosophy: the bottom half* (section) [→11:30 am]

11:00 am

- [room K10/11] Joseph VIDAL-ROSSET, *Which core logic?* (section A2)
- [room K01] Patrick BLACKBURN, Maria MANZANO, Carlos ARECES, Antonia HUERTAS, *The bird of the hybrid type theory* (section A2)
- [room DR01] Juha SAATSI, *Scientific realism and inferentially veridical representations* (section B1)
- [room DR02] Jesús ZAMORA-BONILLA, Ana M. RODRIGUEZ, *Confirmation, verisimilitude, and acceptance* (section B1)
- [room AR06] Adam GROBLER, *Two traditions of conventionalism* (section B3)
- [room K30] Paula QUINON, *Computational structuralism and Frege’s constraint* (section C1)

11:30 am

- John T. KEARNS, *Why blame Aristotle? Rational coherence and the principle of contradiction* (section A2) [room K10/11]
- Aleksandra SAMONEK, *Translation invariance as a criterion of likeness. An analysis of hybrid versimilitude theories* (section A2) [room K01]
- Saeed SALEHI, *Gödel's incompleteness phenomenon from computational viewpoint* (section A3) [room K21]
- Anna CIAUNICA, *Higher- and lower-level phenomena: A nonhierarchical approach to fundamental properties* (section B1) [room DR01]
- Theo KUIPERS, *Refined truth approximation by refined belief base revision* (section B1) [room DR02]
- David STUMP, *Poincaré's two types of conventionalism* (section B3) [room AR06]
- Joachim HERTEL, *Frege on the iPad* (section C1) [room K30]
- Tomoyuki YAMADA, *Dynamic logics of speech acts as formal simulations of social interaction* (section C2) [room B112/113]
- Aristidis ARAGEORGIS, *Spacetime as a causal set: Universe as a growing block?* (section C5) [room AR05]
- Stéphanie VAN DROOGENBROECK, *Experimental philosophy and evidence-based medicine: Two criticized ways of doing science* (section C6) [room K31]
- Daniel ECKERT, *Guilbaud's reading of Arrow's theorem* (section C8) [room A105]
- Martin A. VEZÉR, *Comparing methodologies of classical, natural, field and computer experiments deployed in climate change studies* (section D) [room B111]

12:00 pm

- Sam SANDERS, *Computing the infinite* (section A3) [room K21]
- Emma RUTTKAMP, *Re-positioning realism* (section B1) [room DR01]
- Ilkka NIINILUOTO, *Rethinking belief revision by truthlikeness* (section B1) [room DR02]
- Scott WALTER, *Beyond Poincaré and Einstein: A. A. Robb's theory of space and time* (section B3) [room AR06]
- Juliusz DOBOSZEWSKI, *Specious present in branching space-times* (section C5) [room AR05]
- Jan DE WINTER, *How to make the research agenda in the health sciences less distorted* (section C6) [room K31]
- Carlo MARTINI, *Modeling expertise in economics* (section C8) [room A105]

1:30 pm

- SYMPOSIUM: *Theories of continua: Logical and philosophical reflections* (section C1) [room K30]
[→4:15 pm]

2:15 pm

- [room K10/11] Julio ARRIAGA ROMERO, *Skeptical doubt, the common doubt and the contextualism of Keith De Rose* (section A2)
- [room K01] Fabrice PATAUT, *Strong antirealism, logical rules and structural rules* (section A2)
- [room DR01] **Paul HUMPHREYS**, *The differences between data from simulations and experiments* (section B1) [→3:15 pm]
- [room AR06] Francesca BIAGIOLI, *Between Kantianism and empiricism: Otto Hölder's philosophy of geometry* (section B3)
- [room B112/113] **Philippe SCHLENKER**, *What is dynamic in meaning?* (section C2) [→3:15 pm]
- [room AR05] Michael CUFFARO, *Many worlds, the cluster-state quantum computer, and the problem of the preferred basis* (section C5)
- [room K31] **Anne CAMBON-THOMSEN**, *Data driven research and large scale studies in biomedical research: What consequences for data sharing and bioethics in human genetics?* (section C6) [→3:15 pm]
- [room A105] Paul WEIRICH, *Decisions without Sharp probabilities* (section C8)
- [room B111] Susan G. STERRETT, Adrian BEJAN, *Geometric configuration in nature and in design: Is there a connection?* (section D)

2:45 pm

- [room K10/11] Masashi KASAKI, Gillman PAYETTE, *The many dimensions of contextualism in epistemology* (section A2)
- [room K01] Sven Ove HANSSON, *Representing a finite mind* (section A2)
- [room AR06] Davide CRIPPA, *Mathematics and the purity of methods: Some historical considerations* (section B3)
- [room AR05] Arianne SHAHVISI, *The gravity of the past hypothesis: Lessons learnt from Earman and Wallace* (section C5)
- [room A105] Silvia HARING, Paul WEINGARTNER, *On the conceptual clarification of "human environment", "action space" and "quality ofLife"* (section C8)
- [room B111] SYMPOSIUM: *Design as a challenge for the philosophy of science* (section D) [→4:15 pm]

3:15 pm

- [room K10/11] Viacheslav LYASHOV, *Explication as specific method of philosophical research* (section A2)
- [room K01] Matthias UNTERHUBER, *The Ramsey test and Chellas-Seegerberg semantics* (section A2)
- [room DR01] Johannes LENHARD, *A turn in computational modeling. The case of quantum chemistry* (section B1)
- [room AR06] Jean-Pierre FERRIER, *Quality and practice in mathematics from Hilbert to Grothendieck* (section B3)
- [room B112/113] Manuel REBUSCHI, *De dicto versus de facto attitudes* (section C2)
- [room AR05] Graham NERLICH, *Bell's Lorentzian pedagogy: A bad education* (section C5)
- [room K31] Sébastien JANICKI, *Between variability of the body and determinism of the care: A "mediated" relation* (section C6)
- [room A105] Adrian MIROIU, *Two approaches to representative voting* (section C8)

3:45 pm

- Konstantin SKRIPNIK, *Logic as an art and logic as a science: Is it only precedents or tradition?* (section A2) [room K10/11]
- Wen-Yu TSAI, *The swamping problem* (section A2) [room K01]
- János TANÁCS, *Some semantic considerations for the conceptual transition from Euclidean to non-Euclidean geometry* (section B3) [room AR06]
- Esa DIAZ-LEON, *What is social construction?* (section C8) [room A105]

4:35 pm

- INVITED SYMPOSIUM: *General proof theory*** (section A2) [→7:05 pm] [Grand Amphithéâtre]
- Ivan GAZEAU, *Reasoning without language or logic* (section B1) [room DR01]
- Philipp W. BALSIGER, *What makes an object ‘epistemic’? Criteria of relevance for scientific collections and exhibitions* (section B1) [room DR02]
- SYMPOSIUM: *Poincaré, Philosopher of science: A historical and philosophical approach* (section B3) [→7:05 pm] [room AR06]
- Mark VAN ATTEN, *Kant and real numbers* (section C1) [room K30]
- Valentine REYNAUD, *Can innateness assumptions avoid the tautology problem?* (section C2) [room B112/113]
- Nazim BOUATTA, Jeremy BUTTERFIELD, *Emergence and reduction combined in infinite systems* (section C5) [room AR05]
- Chhanda CHAKRABORTI, *Vulnerability from infectious diseases and social determinants of health: In search for an ontology to guide health policy development* (section C6) [room K31]

5:05 pm

- Marianne RICHTER, *Visual representation in the light of methodological demands. A critical review of symbol theoretic attempts to operationalize scientific visualization* (section B1) [room DR01]
- Rafal URBANIAK, *Prioritize adaptive logics and the epistemology of thought experiments in physics* (section B1) [room DR02]
- Jari PALOMÄKI, *Kant, Cantor and the Burali Forti’s paradox* (section C1) [room K30]
- Lilia GUROVA, *The principle based explanations are not extinct in cognitive science: The case of the basic level effects* (section C2) [room B112/113]
- Matt FARR, *On the status of temporal unidirectionality in physics* (section C5) [room AR05]
- Noemí SANZ, *How and why to epistemologically study applied bioethics to nanomedicine* (section C6) [room K31]

5:35 pm

- Rosa María HERRERA, *Metaphors, the solar system and scientific research* (section B1) [room DR01]
- Meinard KUHLMANN, *One law, 23 derivations: On the plurality of explanations of Planck’s law* (section B1) [room DR02]

- [room K30] Jaakko HINTIKKA, *Axiomatizing set theory* (section C1)
- [room B112/113] Dingzhou FEI, *Blackboard system as model of problem solving in Sudoku puzzles* (section C2)
- [room AR05] Argyris NICOLAIDIS, *Relational logic and modern science* (section C5)
- [room K31] Marc KIRSCH, *When society speaks to science: Politics, social representations and industrial interests in the medical definition of the concept of addiction, in the case of tobacco and nicotine* (section C6)

6:05 pm

- [room DR01] Bertold SCHWEITZER, *From malfunction to mechanism* (section B1)
- [room DR02] Richard PETTIGREW, *Accuracy, chance and the principal principle* (section B1)
- [room K30] Jan WOLEŃSKI, *Constructivism and metamathematics* (section C1)

6:35 pm

- [room DR02] Joshua HADDOCK, *The principal principle, and theories of chance: An account of primitive conditional chance* (section B1)

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8:30 am – 4:15 pm

- [room K12] IMLA'11 SYMPOSIUM: *Intuitionistic modal logics and applications workshop (IMLA'11)* (Affiliated)

Tuesday 26

8:30 am – Plenary Lecture

Dag PRAWITZ, *Is there a general concept of proof?* [→10:00 am] [Grand Amphithéâtre]

10:30 am

Johannes CZERMAK, Kordula SWIETORZECKA, *Some calculus of change with S_4 -necessity* (section A2) [room K10/11]

Toby MEADOWS, *Truth, dependence & supervaluation* (section A2) [room K01]

Matthias EGG, *Expanding our grasp: Can causal knowledge save realism from Stanford's new induction?* (section B1) [room DR01]

Dunja ŠEŠELJA, *Disambiguating the notion of pursuit worthiness* (section B1) [room DR02]

Simcha KOJMAN-ROZEN, *Changes in the perception of time in Victorian scientific theories: Lyell, Darwin and Maxwell* (section B3) [room AR06]

Samuel FLETCHER, Jason HOELSCHER-OBERMAIER, *Physical computability, efficiency, and the Church-Turing thesis* (section C1) [room K30]

Fritz HAMM, *On anaphora resolution: Some methodological remarks* (section C2) [room B112/113]

SYMPOSIUM: *Epistemological perspectives on the Large Hadron Collider* (section C5) [room AR05]
[→12:30 pm]

11:00 am

Ionel NARIȚA, *Modal analysis of strict implication* (section A2) [room K10/11]

Tetsuji ISEDA, *A statistical model of vagueness based on supervaluationism* (section A2) [room K01]

Paul HOYNINGEN-HUENE, *The ultimate argument against convergent realism and structural realism: The impasse objection* (section B1) [room DR01]

Vladimir KUZNETSOV, Wolfgang BALZER, *From philosophy of science to theories of knowledge systems* (section B1) [room DR02]

Dana JALOBEANU, *Constructing natural historical facts: Baconian methodology in Newton's first paper on light and colors* (section B3) [room AR06]

Nicola ANGIUS, *Corroboration of hypotheses and experimental computer science in software testing* (section C1) [room K30]

11:30 am

Alberto Marió MURA, *A partial modal semantics for the Adams logic of indicative conditionals* (section A2) [room K10/11]

Viviane DURAND-GUERRIER, *An elementary model theoretic perspective in mathematics education* (section A2) [room K01]

Ludwig FAHRBACH, *How to defend Scientific Realism against the PMI* (section B1) [room DR01]

Peeter MÜRSEPP, *The aim of science—knowledge or wisdom* (section B1) [room DR02]

- [room AR06] Raffaele PISANO, *Historical epistemology. Notes on Archimedes, Torricelli and Sadi Carnot* (section B3)
- [room K30] Liesbeth DE MOL, *The computer (as a medium) in mathematics. Mathematician-computer interaction, internalization, time and space squeezing* (section C1)
- [room B112/113] Michele ABRUSCI, Christian RETORÉ, *Quantification in ordinary language: From a critique of set-theoretic approaches to a proof-theoretic proposal* (section C2)

12:00 pm

- [room K01] Jui-Lin LEE, *Classical model existence and pure implicational logic* (section A2)
- [room DR02] László ROPOLYI, *Seven fundamental versions of philosophy of science* (section B1)
- [room AR06] Gábor A. ZEMPLÉN, *Methodological remarks on knowledge-production and text-production: Newton's optical controversy and methodological shifts* (section B3)
- [room AR05] Alexandre GUAY, *Objectivity and physical symmetries* (section C5)

2:15 pm

- [room K10/11] Severi K. HÄMÄRI, Rafal URBANIAK, *Busting a myth about Leśniewski and definitions* (section A2)
- [room DR01] Angelo CEI, *The epistemic structural realist program. Some interference* (section B1)
- [room DR02] Kunihisa MORITA, *Pseudo-scientific explanation and scientific explanation* (section B1)
- [room AR06] Masaki HARADA, *Kant, Fichte and algebraic operations: Philosophy of algebra according to Jules Vuillemin* (section B3)
- [room B112/113] Joana HOIS, Oliver KUTZ, *Towards linguistically-grounded spatial logics* (section C2)
- [room AR05] Adán SUS, *Is inertia explained in general relativity?* (section C5)

2:45 pm

- [room K10/11] Hsing-Chien TSAI, *Undecidability of some mereotopological structures* (section A2)
- [room K01] Clayton PETERSON, *On what grounds should we build deontic logic?* (section A2)
- [room DR01] Yukinori ONISHI, *The scientific realism debate from the epistemological viewpoint* (section B1)
- [room DR02] Verusca MOSS SIMÕES DOS REIS, *The role of philosophy of science in the understanding of "post-academic" science* (section B1)
- [room AR06] Ivica MARTINOVIĆ, *With Bošković against Kant: Ivan Krstić on space and time* (section B3)
- [room B112/113] Erwin ENGELER, *Algebras of the mind and algebras of the brain* (section C2)
- [room AR05] Montgomery LINK, *Rotating universe* (section C5)

3:15 pm

- [room K10/11] Boris FYODOROV, *Representation of Bolzano's content inferences with singular terms in the language of predicate logic* (section A2)
- [room K01] Tjerk GAUDERIS, *Three complications in modelling abduction in science* (section A2)

- Tobias BREIDENMOSER, *Theories of axonal transport in the cell: Empirical evidence against scientific realism* (section B1) [room DR01]
- Saana JUKOLA, *The commercialization of research—A threat to the objectivity of science?* (section B1) [room DR02]
- Hennie LÖTTER, *Evolution as metaphor for scientific progress* (section B3) [room AR06]
- Oliver KUTZ, Joana HOIS, *Steering ontological blending* (section C2) [room B112/113]
- Hajime TANAKA, Koji NAKATOGAWA, Hiroyasu NAGATA, *A proposition called T0906 and Gödel's incompleteness theorems* (section C5) [room AR05]

3:45 pm

- Giuliano BACIGALUPO, *Meinong and Husserl on existence* (section A2) [room K10/11]
- Sreekumar JAYADEVAN, *Theory-talk, meta-theory-talk and metaphysical-talk: Intricacies and pertinence of three levels of discourse in the scientific realism-debate* (section B1) [room DR01]
- Anne-Sophie GODFROY, *How international comparisons transform social reality* (section B1) [room DR02]
- Paweł ŁUPKOWSKI, *Cooperative answering and inferential erotetic logic* (section C2) [room B112/113]
- Julien BERNARD, *From the hole argument (A. Einstein) to the ball of clay argument (H. Weyl)* (section C5) [room AR05]

4:35 pm

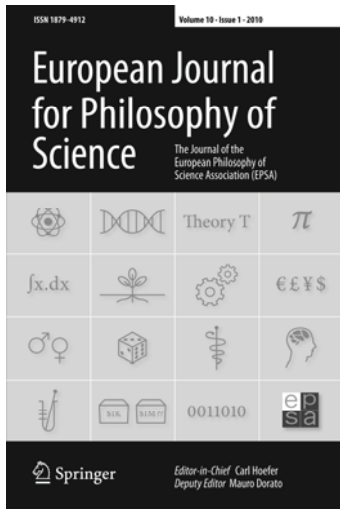
- Berna KILINC, *A generalization of the Condorcet jury theorem* (section B1) [room DR01]

5:05 pm

- François LEPAGE, Charles MORGAN, *Two impossibility results about revision of conditional probability* (section B1) [room DR01]

5:30 pm

- Closing Ceremony** [Grand Amphithéâtre]



**New 2011 Journal: European Journal for
Philosophy of Science**

Official journal of the: *European Philosophy of Science Association (EPSA)*

Editor-in-Chief: *Carl Hofer, Universitat Autònoma de Barcelona*

Deputy Editor: *Mauro Dorato, University of Rome 3*

Aims & Scope:

The European Journal of Philosophy of Science publishes groundbreaking works in Philosophy of Science that can deepen our understanding of the world as well as being of direct interest to scientists and to citizens and policymakers who make use of science. The journal is open for philosophy of science articles from all traditions and all backgrounds. Although founded in Europe, the journal welcomes articles from every part of the world.



New 2011 Journal: Philosophy & Technology

Editor-in-Chief: *Luciano Floridi, University of Hertfordshire and University of Oxford*

Aims & Scope:

The journal aims to publish the best research produced in all areas where philosophy and technology meet. It welcomes high-quality submissions, regardless of the tradition, school of thought or disciplinary background from which they derive. The editorial board reflects this approach in its composition and its world-wide membership.

Philosophy & Technology addresses such challenges, in order to improve our critical understanding of the conceptual nature and practical consequences of technologies, and hence provide the conceptual foundations for their fruitful and sustainable developments.

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**New 2012 Springer publication: Biological
Theory**

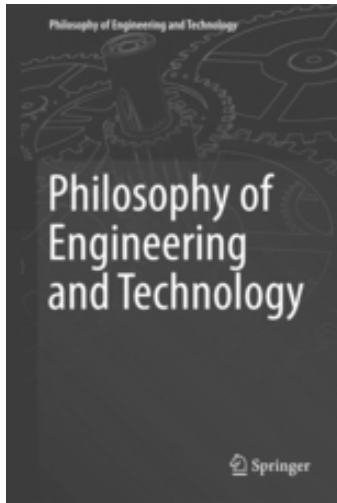
Supported by: *Konrad Lorenz Institute for Evolution and Cognition Research.*

Editor-in-Chief: *Werner Callebaut, Konrad Lorenz Institute for Evolution and Cognition Research*

Aims & Scope:

Biological Theory is devoted to theoretical advances in the fields of evolution and cognition with an emphasis on the conceptual integration afforded by evolutionary and developmental approaches. The journal appeals to a wide audience of scientists, social scientists, and scholars from the humanities, particularly philosophers and historians of biology.

***For more information, please visit the Springer booth or
e-mail editor: Ties.Nijssen@springer.com***



New 2011 Book Series: Philosophy of Engineering and Technology

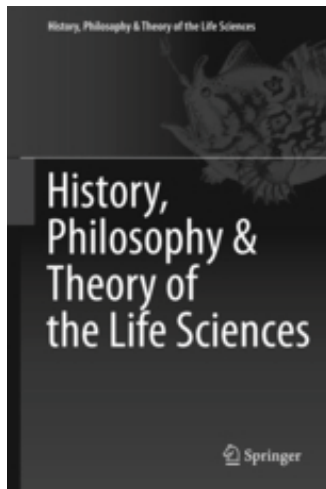
Editor-in-Chief: Pieter Vermaas, *Delft University of Technology*

Aims & Scope:

The Philosophy of Engineering and Technology book series provides the multifaceted and rapidly growing discipline of philosophy of technology with a central overarching and integrative platform. Specifically it publishes monographs in:

- the phenomenology, anthropology and socio-politics of technology and engineering
- the emergent fields of the ontology and epistemology of artifacts, design, knowledge bases, and instrumentation
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New 2011 Book Series: History, Philosophy & Theory of the Life Sciences

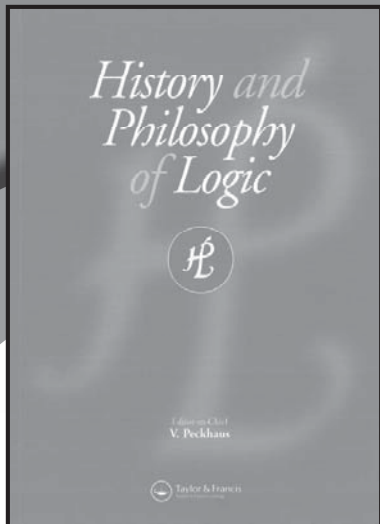
Editor-in-Chief: Charles T. Wolfe, *University of Sydney*
Philippe Huneman, *IHPST, Paris*
Thomas Reydon, *Leibniz Universität Hannover*

Aims & Scope:

History, Philosophy and Theory of the Life Sciences is a space for dialogue between Life Scientists and Philosophers or Historians – welcoming both essays about the principles and domains of cutting-edge research in the Life Sciences, novel ways of tackling philosophical issues raised by the Life Sciences, as well as original research about the history of methods, ideas and tools, which constitute the genealogy of our current ways of understanding living phenomena.

More information: www.springer.com/series/8916

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History and Philosophy of Logic

Editor-in-Chief:

Volker Peckhaus, Universität Paderborn, Germany

History and Philosophy of Logic contains articles, notes and book reviews dealing with the history and philosophy of logic. 'Logic' is understood to be any volume of knowledge which was regarded as logic at the time in question. 'History' refers back to ancient times and also to work in this century; however, the Editor will not accept articles, including review articles, on very recent work on a topic. 'Philosophy' refers to broad and general questions: specialist articles which are now classed as 'philosophical logic' will not be published.

The Editor will consider articles on the relationship between logic and other branches of knowledge, but the component of logic must be substantial. Topics with no temporal specification are to be interpreted both historically and philosophically. Each topic includes its own metalogic where appropriate.

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Editor: James W. McAllister, University of Leiden, The Netherlands

A scholarly journal dedicated to publishing original research in philosophy of science and in philosophically informed history and sociology of science. Its scope includes the foundations and methodology of the natural, social, and human sciences, philosophical implications of particular scientific theories, and broader philosophical reflection on science. The editor invites contributions not only from philosophers, historians, and sociologists of science, but also from researchers in the sciences.

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Kevin B. Korb & Ann E. Nicholson

The second edition of this bestseller provides a practical and accessible introduction to the main concepts, foundation, and applications of Bayesian networks. This edition contains a new chapter on Bayesian network classifiers and a new section on object-oriented Bayesian networks, along with new applications and case studies. It includes a new section that addresses foundational problems with causal discovery and Markov blanket discovery and a new section that covers methods of evaluating causal discovery programs. The book also offers more coverage on the uses of causal interventions to understand and reason with causal Bayesian networks. Supplemental materials are available on the book's website. December 2010 | HB: 978-1-4398-1591-5 | **£57.99**

Mathematical Aspects of Logic Programming Semantics

Pascal Hitzler & Anthony Seda

Covering the authors' own state-of-the-art research results, this book presents a rigorous, modern account of the mathematical methods and tools required for the semantic analysis of logic programs. It significantly extends the tools and methods from traditional order theory to include nonconventional methods from mathematical analysis that depend on topology, domain theory, generalized distance functions, and associated fixed-point theory. The authors closely examine the interrelationships between various semantics as well as the integration of logic programming and connectionist systems/neural networks. December 2010 | HB: 978-1-4398-2961-5 | **£57.99**

Introduction to Mathematical Logic, Fifth Edition

Elliott Mendelson

Retaining all the key features of its predecessors, this fifth edition of a long-established, bestselling text explores the principal topics of mathematical logic. It includes a new section covering basic ideas and results about nonstandard models of number theory, a second appendix that introduces modal propositional logic, an expanded bibliography, and additional exercises and selected answers. This edition continues to cover propositional logic, first-order logic, first-order number theory, axiomatic set theory, and the theory of computability. It also discusses the major results of Gödel, Church, Kleene, Rosser, and Turing. August 2009 | HB: 978-1-58488-876-5: **£39.99**



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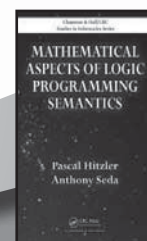
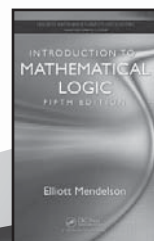


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Program by Sections (including Chairs)

A1. Mathematical Logic

THURSDAY 21

Chair: Joseph VIDAL-ROSSET

10:30 am – 12:30 pm

Martin GROHE, *Logic, structure and complexity*

Jaime GASPAR, *Copies of classical logic in intuitionistic logic*

Valery KHAKHANIAN, *Properties of universes in realizability models for intuitionistic Set theory and its corollaries*

Chair: Andreas BLASS

2:15 – 4:15 pm

Justin MOORE, *The proper forcing axiom*

Riccardo BRUNI, Peter SCHUSTER, *Approximating Beppo Levi's Principio di Approssimazione*

Michael ARNDT, Laura TESCONI, *Constructing a proof-tree: An investigation on composition of derivations*

Chair: Andreas BLASS

4:35 – 6:35 pm

Joseph S. MILLER, *Beyond the Turing degrees: Non-diagonalizability and universal randomness*

Paulo OLIVA, *Gödel's functional interpretation of classical arithmetic and analysis*

FRIDAY 22

Chair: Justin MOORE

10:30 am – 12:30 pm

Simon THOMAS, *Martin's Conjecture and countable Borel equivalence relations*

Newton M. PERON, *A generalization of Dugundji theorem*

Taishi KURAHASHI, *On Kripke frames and arithmetical interpretations for QGL*

2:15 – 4:15 pm

Chair: Paulo OLIVA

Patrick SPEISEGGER, *Solving equations by quadratures using Model Theory*

Thomas STUDER, *Dynamic justification logic*

Valeria DE PAIVA, *Lorenzen games for full intuitionistic linear logic*

SATURDAY 23

10:30 am – 12:30 pm

Chair: Dag WESTERSTÅHL

Julia KNIGHT, *Comparing classes of structures*

Sheila VELOSO, Paulo VELOSO, Paula VELOSO, *On Piaget-like monoids: Monoids for logics*

Andrea CANTINI, Laura CROSILLA, *On constructive set theories with operations and related problems*

2:15 – 3:15 pm

Chair: Simon THOMAS

Christian WALLMANN, *Semantics for Tarskian consequence operations*

Karolina KUZICHEVA, Alexander KUZICHEV, *Two-level version of sequential logic: completeness and consistency aspects*

A2. Philosophical Logic

TUESDAY 19

Chair: Albert J. J. ANGLBERGER

8:30 am – 10:00 pm

Chienkuo MI, *Truth as a semantic switch*

Gemma ROBLES, *The basic constructive logic for weak consistency in the ternary semantics with designated points*

Hartley SLATER, *Quine's other way out*

Chair: Albert J. J. ANGLBERGER

10:30 am – 12:30 pm

Alexandru-Viorel MUREȘAN, *The paradoxical context of logical information: The core of the paradoxical context of information and inference*

Barteld KOOI, Allard TAMMINGA, *Lost in translation: The logic of paradox*

Karine FRADET, *Cooperation in the prisoner's dilemma*

José M. MÉNDEZ, Gemma ROBLES, Francisco SALTO *On the variable-sharing property and the axiom mingle*

THURSDAY 21

Chair: Manuel REBUSCHI

10:30 am – 13:00 pm

Virginie FIUTEK, Sujata GHOSH, Sonja SMETS, *Higher-order belief change in a branching-time setting*

Barteld KOOI, *Information change and first-order dynamic logic*

Lorenz DEMEY, *Neighborhood semantics for dynamic epistemic logics*

Nicolas CLERBOUT, *Modal dialogical logic, validity and universal satisfiability*

Neil KENNEDY, *The ways of modality: On the notion of higher-order modality*

2:15 – 4:15 pm

Session A — Chair: NNFrederik VAN DE PUTTE, *Adaptive belief contraction*Joke MEHEUS, *Adaptive deontic logics for various types of normative conflicts*Christian STRASSER, *An adaptive approach to detachment in conditional logics of normality*Peter VERDEE, *Towards non-monotonic mathematics: Adaptive logic theories as a pragmatic foundation for mathematics*

2:15 – 3:45 pm

Session B — Chair: Fabrice PATAUTMateusz RADZKI, *Non-Fregean logic and Ludwig Wittgenstein's early insight into application of logic*Ioan SCHEAU, *The errors of Bertrand Russell*Paola CANTÙ, *Peano and Gödel*

4:35 – 7:05 pm

Symposium

HYPERINTENSION, INTENSION, EXTENSION

Organizers: Marie DUŽI, Bjørn JESPERSEN, Pavel MATERNA

- Roussanka LOUKANOVA, *Algorithmic intensionality and underspecification of verb-phrase ellipsis*
- Marie DUŽI, *Towards an extensional calculus of hyperintensions*
- Jens Christian BJERRING, *Non-ideal epistemic spaces*
- Bjørn JESPERSEN, *Proposition, procedure, predication*
- Sebastian SEQUOIAH-GRAYSON, *Logical hyperintensionality: From consequences to actions*

FRIDAY 22

10:30 am – 12:30 pm

Chair: John WOODS**Dag WESTERSTÅHL**, *The importance of compositionality*Iancu LUCICA, *Logic of paraconsistent concepts*Can BAŞKENT, *Homotopies in classical and paraconsistent modal logics*

Session A — Chair: John T. KEARNS

2:15 – 4:15 pm

- Wen-fang WANG, *Against classical dialetheism*
 Vladimir POPOV, Vasilyi SHANGIN, *In the vicinity of sette logic*
 Mathieu VIDAL, *For a Popperian theory of conditionals*
 Xunwei ZHOU, *Material implication v. mutually inverse implication*

Session B — Chair: Hervé BARREAU

2:15 – 4:15 pm

- Albert J. J. ANGLBERGER, *An axiomatization of Paul Weingartner's 6-valued deontic logic and a result concerning its possible extensions*
 Paul WEINGARTNER, *Decidable many-valued logic for the application in empirical sciences*
 José MARTÍNEZ FERNÁNDEZ, Rafael BENEYTO TORRES, *On some natural four-valued generalizations of Kleene logic*
 Fabien SCHANG, *Logic as consequence in opposition*

Symposium

4:35 – 7:05 pm

THE MEANING OF AXIOMS: FROM MATHEMATICS TO LOGIC

Organizers: Alberto NAIBO, Mattia PETROLO, Thomas SEILLER

- Denis BONNAY, *Extending theories: Why and how ontology matters*
- Gilles DOWEK, *The impact of Automated theorem proving on Proof theory*
- Alexandre MIQUEL, *Krivine's theory of classical realizability: A genuine alternative to the Brouwer-Heyting-Kolmogorov interpretation of proofs*
- Alberto NAIBO, Paolo MAFFEZIOLI, Sara NEGRI, *Fitch's paradox in the light of structural proof theory*
- Mattia PETROLO, Thomas SEILLER, *On the meaning of logical axioms*
- Samuel TRONÇON, *The social meaning of axioms*

SATURDAY 23**Symposium**

10:30 am – 12:30 pm

PROOF THEORY, MEANING AND PARADOXES

Organizer: Luca TRANCHINI

- Ole HJORTLAND, *Proof-theoretic semantics in the substructural era*
 - Julien MURZI, *Validity and the unprovability of consistency*
 - Luca TRANCHINI, *Proof-theoretic semantics, paradoxes and Dummett's fundamental assumption*
- Hsin-Mei LIN, *Is the sensitive principle or the safety principle enough?*

2:15 – 4:15 pm

Session A — Chair: NN

Thomas PIECHA, Wagner de Campos SANZ, *Constructive semantics and classical logic*

Bartosz WIECKOWSKI, *Lorenzen dialogues and sequent calculus: Equivalence, correspondence, and cut*

Roberto CIUNI, Andreas PIETZ, *Which constructive negation for falsificationism?*

Wagner de Campos SANZ, Thomas PIECHA, *The BHK interpretation and extensions of NJ*

2:15 – 4:15 pm

Session B — Chair: NN

Stephen READ, *Proof-theoretic validity*

Diderik BATENS, *The consistency of Peano arithmetic: Why bother?*

Werner STELZNER, *Semantic foundations for the logic of assent*

Michael ARNDT, *Localising logical rules in the sequent calculus*

4:35 – 7:05 pm

Symposium

NEW DIRECTIONS IN DIALOGICAL LOGICS

Organizers: Shahid RAHMAN, Pierre CARDASCIA

- Matthieu FONTAINE, *Weak impermeabilism for fictionality in a dialogical framework*
- Sebastien MAGNIER, Tiago DE LIMA, *Completeness on dialogues and dynamic epistemic logic*
- Mathieu MARION, *Game semantics and the manifestation thesis*
- Shahid RAHMAN, *Conditional right and public announcement, which kind of dynamic?*
- John WOODS, *Advice on the logic of argument*

MONDAY 25

10:30 am – 12:00 pm

Session A — Chair: NN

Corina STRÖSSNER, *A quantitative logic of normality*

Joseph VIDAL-ROSSET, *Which core logic?*

John T. KEARNS, *Why blame Aristotle? Rational coherence and the principle of contradiction*

Session B — Chair: Johannes LENHARD

10:30 am – 12:00 pm

Michel PAQUETTE, *Illocutionary logic and social interaction: Speech acts and the conversational record*

Patrick BLACKBURN, Maria MANZANO, Carlos ARECES, Antonia HUERTAS, *The bird of the hybrid type theory*

Aleksandra SAMONEK, *Translation invariance as a criterion of likeness. An analysis of hybrid versimilitude theories*

Session A — Chair: Hassan TAHIRI

2:15 – 4:15 pm

Julio ARRIAGA ROMERO, *Skeptical doubt, the common doubt and the contextualism of Keith De Rose*

Masashi KASAKI, Gillman PAYETTE, *The many dimensions of contextualism in epistemology*

Viacheslav LYASHOV, *Explication as specific method of philosophical research*

Konstantin SKRIPNIK, *Logic as an art and logic as a science: is it only precedents or tradition?*

Session B — Chair: Roger POUIVET

2:15 – 4:15 pm

Fabrice PATAUT, *Strong antirealism, logical rules and structural rules*

Sven Ove HANSSON, *Representing a finite mind*

Matthias UNTERHUBER, *The Ramsey test and Chellas-Segerberg semantics*

Wen-Yu TSAI, *The swamping problem*

Invited Symposium

4:35 – 7:05 pm

GENERAL PROOF THEORY

Chair: Kosta DOŠEN

- Kosta DOŠEN, *Introductory address*
- William LAWVERE, *Proof theory and presentation of algebras*
- Philip SCOTT, *Remarks on recent categorical proof theory*

TUESDAY 26

10:30 am – 12:00 pm

Session A — Chair: Fabien SCHANG

Johannes CZERMAK, Kordula SWIETORZECKA, *Some calculus of change with S_4 -necessity*

Ionel NARIȚA, *Modal analysis of strict implication*

Alberto Marió MURA, *A partial modal semantics for the Adams logic of indicative conditionals*

10:30 am – 12:30 pm

Session B — Chair: François LEPAGE

Toby MEADOWS, *Truth, dependence & supervaluation*

Tetsuji ISEDA, *A statistical model of vagueness based on supervaluationism*

Viviane DURAND-GUERRIER, *An elementary model theoretic perspective in mathematics education*

Jui-Lin LEE, *Classical model existence and pure implicational logic*

2:15 – 4:15 pm

Session A — Chair: Jan WOLEŃSKI

Severi K. HÄMÄRI, Rafal URBANIAK, *Busting a myth about Leśniewski and definitions*

Hsing-Chien TSAI, *Undecidability of some mereotopological structures*

Boris FYODOROV, *Representation of Bolzano's content inferences with singular terms in the language of predicate logic*

Giuliano BACIGALUPO, *Meinong and Husserl on existence*

2:15 – 3:15 pm

Session B — Chair: Paula QUINON

Clayton PETERSON, *On what grounds should we build deontic logic?*

Tjerk GAUDERIS, *Three complications in modelling abduction in science*

A3. Logic and Computation

THURSDAY 21

Chair: Joseph S. MILLER

10:30 am – 12:00 pm

Roy DYCKHOFF, *Cut-elimination, substitution and normalisation*

Michał KRYNICKI, Jerzy TOMASIK, Konrad ZDANOWSKI, *Logical properties of finite arithmetics*

Giuseppe PRIMIERO, *Modal types and their procedural semantics for contextual computing*

Chair: Bruno COURCELLE

2:15 – 4:15 pm

Étienne GRANDJEAN, *How tightly close descriptive and computational complexity are: A personal view*

Christof LÖDING, *Uniformization in automata theory*

SATURDAY 23

Chair: Jean-Pierre MARQUIS

2:15 – 3:45 pm

Steve AWODEY, *Homotopy type theory*

Tor SANDQVIST, *Computability theory in relation-algebraic form*

Symposium

4:35 – 7:05 pm

PROOF SYSTEMS AT THE TEST OF COMPUTER SCIENCE: FOUNDATIONAL
AND APPLICATIONAL ENCOUNTERS

Organizer: Francesca POGGIOLESI, Giuseppe PRIMIERO

- Agata CIABATTONI, *SAT in monadic Gödel logics: (un)decidability results and applications*
- Simon KRAMER, *An intuitionistic foundation for interactive computation*
- Frank PFENNING, *Epistemic logic and computer security*
- Lutz STRASSBURGER, *Towards a theory of proofs of classical logic*
- Heinrich WANSING, *Encoding derivations in constructive logics*

MONDAY 25*10:30 am – 12:30 pm***Chair:** Dominique LARCHEY-WENDLING

Ulrich BERGER, *Coinduction and program extraction in computable analysis*
Saeed SALEHI, *Gödel's incompleteness phenomenon from computational viewpoint*
Sam SANDERS, *Computing the infinite*

B1. Methodology and Scientific Reasoning

TUESDAY 19

Chair: NN

10:30 am – 11:30 pm

Mieke BOON, *Why do we need phenomena? What we can learn from the engineering sciences*

Erwan LAMY, *How to talk with a skeptic?*

WEDNESDAY 20

Chair: Alberto CORDERO

10:30 am – 1:00 pm

Hans RADDER, *Does the brain ‘initiate’ freely willed processes? A critique of Libet-type experiments and their interpretation*

Wolfgang SPOHN, *A priori principles of reason*

Holger ANDREAS, *A structuralist theory of belief revision*

Chair: NN

2:15 – 3:15 pm

F. A. MULLER, *On an inconsistency in Constructive Empiricism*

Inmaculada PERDOMO, *Scientific representation: Uses and interpretation of models*

Session A — Chair: Max URCHS

4:35 – 7:05 pm

Richard DAWID, *A Bayesian model of no alternative arguments*

Gerhard SCHURZ, *Bayesian confirmation of creationism? On the problem of genuine confirmation*

Erik P. NYBERG, Kevin B. KORB, *Conditioning and unfaithfulness*

Wolfgang PIETSCH, *The limits of probabilism*

Thomas BENDA, *What objective probability could be*

Session B — Chair: Raphael SCHOLL

4:35 – 6:35 pm

Erez FIRT, *On emergence and causation*

Kai-Yuan CHENG, *Dispositions, conditionals, and ordinary conditions*

Christian Johann FELDBACHER, *A problem for semantic definitions of analyticity*

Anna LEUSCHNER, *Pluralism and objectivity: On Longino’s and Kitcher’s approaches*

THURSDAY 21

10:30 am – 1:00 pm

Session A**Symposium**

CALIBRATION IN SCIENTIFIC PRACTICE

Organizer: Léna SOLER

- Léna SOLER, Catherine ALLAMEL-RAFFIN, Catherine DUFOUR, Jean-Luc GANGLOFF, Emiliano TRIZIO, Frédéric WIEBER, *Calibration in everyday scientific practice: A conceptual framework*
- Eran TAL, *Calibration, modeling and the International System of Units*
- Jonathan LIVENGOOD, *Tswett's control experiments and Mill's method of difference*
- Jeu-Jenq YUANN, *The futility of prescribing what scientists should do: Supplementing van Fraassen's empirical stance with scientific practices*
- Anna ESTANY, *The stabilizing role of material structure in scientific practice*

10:30 am – 1:00 pm

Session B**Symposium**INTEGRITY AND DIVERSITY OF TRADITIONS AND TRENDS IN TODAY'S
PHILOSOPHY OF SCIENCE**Organizer:** Andrei RODIN

- Hourya BENIS-SINACEUR, *Jean Cavailles and the philosophy of concept*
- Elena MAMCHUR, *Should the role of epistemology in the philosophy of science be reconsidered?*
- Jonathan REGIER, *Representing a relationship: The historical and the philosophical in the history and philosophy of science*
- Andrei RODIN, *Translation versus formalization*
- Jean-Jacques SZCZECINIARZ, *French school and the diversity of traditions of philosophy of science*

2:15 – 4:15 pm

Chair: Jean-Jacques SZCZECINIARZ

Carlo CELLUCCI, *Philosophy of mathematics: Making a fresh start*
Petros STEFANEAS, **Ioannis M. VANDOULAKIS**, *Proofs as spatio-temporal processes*
Fabio STERPETTI, *Towards a non-adaptationist approach to mathematics*

Session A — Chair: NN

4:35 – 7:05 pm

Elliott SOBER, Mike STEEL, *Screening-off (aka the Markov Property) and causal incompleteness—a no-go theorem*

Raphael SCHOLL, *Causal inference, mechanisms and the semmelweis case*

Uwe SCHEFFLER, Max URCHS, *Both billiard ball and butterfly?*

Alexander GEBHARTER, *Determining causal relevancies at event-level*

Raffaella CAMPANER, *Mechanistic and neo-mechanistic accounts of causation: How Salmon already got (much of) it right*

Session B — Chair: Léna SOLER

4:35 – 7:05 pm

Helmut HEIT, *Reasons for relativism. Feyerabend on early Greek thought*

Yasuo NAKAYAMA, *Scientific progress as increase of expressibility, accuracy and coherence*

Alberto CORDERO, *Accumulation of theory parts and meaning variance*

Myhailo MARCHUK, *Externalism, internalism and the conception of the socio-cognitive potentialism*

Kevin ZOLLMAN, Erich KUMMERFELD, *Conservatism in scientific research: A new problem*

FRIDAY 22**Session A — Chair:** Martin CARRIER

10:30 am – 12:30 pm

Arto MUTANEN, *Interrogative model of inquiry as a logic of experiment*

Eduardo CASTRO, *Laws of nature and induction*

Joseph BRENNER, *A new logic for new technology*

Anjan CHAKRAVARTTY, *Pluralistic ontologies for scientific realism*

Session B — Chair: Sandrine DARSEL

10:30 am – 12:30 pm

Saray AYALA, *How can a purely cognitive philosophy of science deal with social biases? Embodied, situated and distributed cognition to the rescue!*

Fred ADAMS, *Extended cognition meets epistemology*

Zenaida YANES-ABREU, *Veritistic social epistemology. A reliable proposal?*

Cyrille IMBERT, *Collective science: The loss of scientific understanding?*

Session A — Chair: Xavier DE DONATO RODRÍGUEZ

2:15 – 4:15 pm

Demetris PORTIDES, *Scientific representation, denotation, and explanatory power*

Conor MAYO-WILSON, *Efficient experimentation*

Molly KAO, *From foundation to function: Rethinking the role of data in science*

Frederick EBERHARDT, *Scientist vs. nature—Priors, strategies and discovery*

2:15 – 4:15 pm

Session B — Chair: Maria CAAMANO

Sandrine DARSEL, *What do we learn from case studies?*
 Jeff KOCHAN, *Reason, emotion, and the context distinction*
 Samir GORSKY, *The logic of surprise: Puzzle, quantum games and information*
 Simone CHELI, *Neither between nor within: Selfhood and otherness in epistemology*

4:35 – 7:05 pm

Invited Symposium

EVOLUTIONARY MODELS IN EPISTEMOLOGY
 AND PHILOSOPHY OF SCIENCE

Chair: Elliott SOBER

- Hannes LEITGEB, *Probabilities, conditionals, laws*
- Brian SKYRMS, *Evolution of signaling*
- Peter VANDERSCHRAAF, *Changing your spots*

SATURDAY 23

10:30 am – 12:00 pm

Chair: NN

Christopher HITCHCOCK, *Cause and chance*
 Alessandra MELAS, *The contemporary notion of chance and Salmon's interactive Fork model. An attempt to describe chance by means of some causal criterion*

2:15 – 4:15 pm

Session A — Chair: Anjan CHAKRAVARTTY

Roman ROSHKULETS, *Metaphysical aspects of postpositivism*
 Matteo MORGANTI, *Science-based metaphysics: On some recent anti-metaphysical claims*
 Majid DAVOODY BENI, *On the ontology of linguistic frameworks: Toward a comprehensive version of empiricism*
 David MCELHOES, *Difference-making and ontological explanation* Gary FULLER, *Narrative explanations*

2:15 – 4:15 pm

Session B — Chair: Eduardo CASTRO

Aidan LYON, *Why normal distributions are normal*
 Dragos BIGU, *A similarity based model of scientific concept formation*
 Xavier DE DONATO RODRÍGUEZ, *Idealization, scientific modeling and simulations: A new analysis of idealization as a common framework for the study of models and simulations*
 Ashley Graham KENNEDY, *Idealization and inference: How false models explain*

Session A — Chair: NN

4:35 – 7:05 pm

José L. FALGUERA, *Identity of scientific concepts and theoretical dependence*
 Ruey-Lin CHEN, *A theoretical analogy: How is Darwin's theory of natural selection analogous to Malthus' theory of population*
 Ioannis VOTSIS, *Simplicity as a guide to falsity?*
 Maria CAAMANO, *Theory success: Some evaluative clues*
 Anna IJJAS, *Theory vs. interpretation: From a methodological point of view*

Session B

4:35 – 6:05 pm

Symposium

THE INTERPRETATION AND SCOPE OF
 MODELS OF COMPLEX SYSTEMS

Organizer: Christopher PINCOCK

- André ARIEW, *Causation, idealization, and natural selection*
- Steven O. KIMBROUGH, *On modeling imperfect rationality in agent-based models*
- Christopher PINCOCK, *Mathematical models of biological patterns: The legacy of Hamilton's selfish-herd model of gregarious behavior*
- Randall WESTGREN, *Metaphor and models of entrepreneurial behavior*

MONDAY 25

Session A — Chair: NN

10:30 am – 12:30 pm

Milena IVANOVA, *Is the relativized a priori incompatible with scientific realism?*
 Juha SAATSI, *Scientific realism and inferentially veridical representations*
 Anna CIAUNICA, *Higher- and lower-level phenomena: A non-hierarchical approach to fundamental properties*
 Emma RUTTKAMP, *Re-positioning realism*

Session B — Chair: Richard PETTIGREW

10:30 am – 12:30 pm

Oded BALABAN, *Cartography revisited: A key to understanding scientific knowledge*
 Jesús ZAMORA-BONILLA, Ana M. RODRIGUEZ, *Confirmation, verisimilitude, and acceptance*
 Theo KUIPERS, *Refined truth approximation by refined belief base revision*
 Ilkka NIINILUOTO, *Rethinking belief revision by truthlikeness*

2:15 – 3:45 pm

Chair: Paul HOYNINGEN-HUENE**Paul HUMPHREYS**, *The differences between data from simulations and experiments*Johannes LENHARD, *A turn in computational modeling. The case of quantum chemistry*

4:35 – 6:35 pm

Session A — Chair: Paul HOYNINGEN-HUENEIvan GAZEAU, *Reasoning without language or logic*Marianne RICHTER, *Visual representation in the light of methodological demands. A critical review of symbol theoretic attempts to operationalize scientific visualization*Rosa María HERRERA, *Metaphors, the solar system and scientific research*Bertold SCHWEITZER, *From malfunction to mechanism*

4:35 – 7:05 pm

Session B — Chair: Jesús Zamora-BonillaPhilipp W. BALSIGER, *What makes an object ‘epistemic’? Criteria of relevance for scientific collections and exhibitions*Rafal URBANIAK, *Prioritize adaptive logics and the epistemology of thought experiments in physics*Meinard KUHLMANN, *One law, 23 derivations: On the plurality of explanations of Planck’s law*Richard PETTIGREW, *Accuracy, chance and the principal principle*Joshua HADDOCK, *The principal principle, and theories of chance: An account of primitive conditional chance***TUESDAY 26**

10:30 am – 12:00 pm

Session A — Chair: Emma RUTTKAMPMatthias EGG, *Expanding our grasp: Can causal knowledge save realism from Stanford’s new induction?*Paul HOYNINGEN-HUENE, *The ultimate argument against convergent realism and structural realism: The impasse objection*Ludwig FAHRBACH, *How to defend Scientific Realism against the PMI*

10:30 am – 12:30 pm

Session B — Chair: Majid DAVOODY BENIDunja ŠEŠELJA, *Disambiguating the notion of pursuit worthiness*Vladimir KUZNETSOV, Wolfgang BALZER, *From philosophy of science to theories of knowledge systems*Peeter MÜÜRSEPP, *The aim of science—Knowledge or wisdom*László ROPOLYI, *Seven fundamental versions of philosophy of science*

Session A — Chair: Inmaculada PERDOMO

2:15 – 4:15 pm

Angelo CEI, *The epistemic structural realist program. Some interference*

Yukinori ONISHI, *The scientific realism debate from the epistemological viewpoint*

Tobias BREIDENMOSER, *Theories of axonal transport in the cell: Empirical evidence against scientific realism*

Sreekumar JAYADEVAN, *Theory-talk, meta-theory-talk and metaphysical-talk: Intricacies and pertinence of three levels of discourse in the scientific realism-debate*

Session B — Chair: Philipp W. BALSIGER

2:15 – 4:15 pm

Kunihisa MORITA, *Pseudo-scientific explanation and scientific explanation*

Verusca MOSS SIMÕES DOS REIS, *The role of philosophy of science in the understanding of 'post-academic' science*

Saana JUKOLA, *The commercialization of research—A threat to the objectivity of science?*

Anne-Sophie GODFROY, *How international comparisons transform social reality*

Chair: Scott WALTER

4:35 – 5:35 pm

Berna KILINC, *A generalization of the Condorcet jury theorem*

François LEPAGE, Charles MORGAN, *Two impossibility results about revision of conditional probability*

B2. Ethical Issues in the Philosophy of Science

WEDNESDAY 20

10:30 am – 11:30 pm

Chair: Roger POUIVET

Heather DOUGLAS, *Scientific integrity in a politicized world*

2:15 – 3:15 pm

Chair: Hans RADDER

Nicolas LECHOPIER, *Epistemethics: Lessons from an ethnographic study of global health research ethics concerning the articulation between research and practice*

Anna LEUSCHNER, *Scientific credibility in the public exemplifying climatology: Why it is important, how it is challenged*

THURSDAY 21

10:30 am – 12:00 pm

Chair: Heather DOUGLAS

Hugh LACEY, *On the co-unfolding of scientific knowledge and viable values*

Masahiro MATSUO, *Where the opposition to value-free science should be revised*

2:15 – 4:15 pm

Chair: Hugh LACEY

Katarzyna GAN-KRZYWOSZYŃSKA, Piotr LEŚNIEWSKI, *On rationality, irrationality and counterrationality in dynamics of knowledge*

Witold STRAWINSKI, *Philosophy of science and ethical issues—from a Warsaw perspective*

Vladimir LOBOVIKOV, *Science, episteme and mathematical ethics (A law of contraposition of episteme in algebra of formal ethics)*

Kelly KOIDE, *Scientific methods and strategies of research: a plurality of paths to the objectives of science*

B3. Historical Aspects in the Philosophy of Science

THURSDAY 21

Chair: Olga POMBO

10:30 am – 12:00 pm

Yemima BEN-MENACHEM, *Verificationism and scepticism*

Renata ZIEMINSKA, *Inconsistency of ancient skepticism*

Symposium

2:15 – 4:15 pm

THOMAS KUHN'S "THE STRUCTURE OF SCIENTIFIC REVOLUTIONS":
INTERPRETATIONS AND DEVELOPMENTS

Organizer: Friedrich STADLER

- Hans-Joachim DAHMS, *Thomas Kuhn in England Part I: Before and after the London Colloquium 1965*
- Michael SCHORNER, *Thomas Kuhn in England Part II: The London Colloquium in the philosophy of science 1965*
- Christian DAMBOCK, *Thomas Kuhn and the structuralist view of scientific theories. The formal and the historical perspective of theory change* Christoph LIMBECK-LILIENAU, *Kuhn's naturalistic approach and the theory-ladenness of observation*

Daniel KUBY, *A source of Feyerabend's Decision-Based Epistemology: Hugo Dingler's voluntarism*

Symposium

4:35 – 7:05 pm

A PLURALITY OF CURRENTS IN
TODAY'S HISTORICAL EPISTEMOLOGIES

Organizers: Karine CHEMLA, Koen VERMEIR

- Koen VERMEIR, *Style concepts in historical epistemology*
- Nadine de COURTENAY, *Measurement and the social dimensions of scientific knowledge*
- Martin KUSCH, *'Ways of seeing' in Benjamin and historical epistemology*
- Emily GROSHOLZ, *Reference and analysis in the study of time: Classical mechanics, thermodynamics, modern cosmology*
- Thomas STURM, *How might epistemology be historicized? Seven lessons from the debate over naturalized epistemology*

FRIDAY 22

10:30 am – 1:00 pm

Symposium

CONFRONTING FRENCH ROOTS AND
CURRENT HISTORICAL EPISTEMOLOGIES

Organizer: David RABOUIN

- Cristina CHIMISSO, *Life, health and history: a re-assessment of Georges Canguilhem's concept of the normal state*
- Maarten VAN DYCK, *Alexandre Koyré, Hegelian*
- Katharina KINZEL, *Wartofsky's historical epistemology and the critique of philosophical problems*
- David RABOUIN, *Mathematical style in Gilles Gaston Granger and what can be done with it*
- Paolo SAVOIA, *Current historical epistemology and the history of the human sciences*

2:15 – 4:15 pm

Chair: Pierre WAGNER

Başak ARAY, *Neurath on pictures, language and international communication*
 Artur KOTERSKI, *The unimportance of Quine's 'Two Dogmas of Empiricism'*
 Alexander FURSOV, *Theory underdetermination: The history of science perspective*
 Pascale ROURE, *History of sciences and language criticism : A cross-referenced reading of Ernst Mach and Fritz Mauthner*

4:35 – 6:35 pm

Symposium

CARNAP'S LINGUISTIC PLURALISM AND SCIENTIFIC METHODOLOGY

Organizer: Richard ZACH

- André W. CARUS, *Carnap's principle of tolerance as a basis for reasoning about values*
- Richard CREATH, *Carnap's linguistic pluralism in observation and theory*
- Pierre WAGNER, *Rational choice, decision theory, and the principle of tolerance*
- Richard ZACH, *Carnap, Tolerance, and the foundational debate in mathematics*

Matteo COLLODEL, *Carnap's vision or: How we can learn from the past and enlighten the future of the philosophy of science*

SATURDAY 23**Chair:** Scott WALTER

10:30 am – 11:30 pm

Martin CARRIER, *On the question dynamics of research: Modes of finding and losing research topics in science*

Chair: NN

Silvia DE BIANCHI, *Symmetry and the enigma of space and time. Reflections on the origin of gauge theory* 2:15 – 4:15 pm

Shinji IKEDA, *Gödel and Leibniz on concepts and relations*

Ioannis M. VANDOULAKIS, *On A. A. Markov's attitude towards Brouwer's intuitionism*

Georg SCHIEMER, *Semantics in type theory*

Chair: Cristina CHIMISSO

4:35 – 6:35 pm

Dagmar PROVIJN, *A study of analogical reasoning based on William Harvey's problems and analogies*

Zuraya MONROY-NASR, *Cartesian forces in a soulless physics*

Hassan TAHIRI, *Ibn al-Haytham's al-Shukuk or the art of controversy: How the eleventh century arabic scientist's arguments changed astronomy forever*

Oscar João ABDOUNUR, *Compounding ratios, theories of ratio and geometry in theoretical music in the 16th century*

MONDAY 25**Chair:** Philippe NABONNAND

João PRINCIPE, *Kantian aspects of Poincaré's epistemological thoughts on XIXth century physics* 10:30 am – 12:30 pm

Adam GROBLER, *Two traditions of conventionalism*

David STUMP, *Poincaré's two types of conventionalism*

Scott WALTER, *Beyond Poincaré and Einstein: A. A. Robb's theory of space and time*

2:15 – 4:15 pm

Chair: Oliver SCHLAUDT

Francesca BIAGIOLI, *Between Kantianism and empiricism: Otto Hölder's philosophy of geometry*

Davide CRIPPA, *Mathematics and the purity of methods: Some historical considerations*

Jean-Pierre FERRIER, *Quality and practice in mathematics from Hilbert to Grothendieck*

János TANÁCS, *Some semantic considerations for the conceptual transition from Euclidean to non-Euclidean geometry*

4:35 – 7:05 pm

Symposium

POINCARÉ, PHILOSOPHER OF SCIENCE:
A HISTORICAL AND PHILOSOPHICAL APPROACH

Organizer: Augusto J. Franco de OLIVEIRA

- Rosário LAUREANO, *Poincaré as founder of Deterministic Chaos Theory*
- María DE PAZ, *The role of hypothesis in Poincaré's natural philosophy*
- Isabel SERRA, *Poincaré's thinking: From mathematics to physics*
- Olga POMBO, *Several concepts of intuition in Poincaré's philosophy of mathematics*
- Nuno JERÓNIMO, *Poincaré's anticipatory intuitionism*
- Augusto J. Franco de OLIVEIRA, *Poincaré and the infinitesimals*

TUESDAY 26

10:30 am – 12:30 pm

Chair: NN

Simcha KOJMAN-ROZEN, *Changes in the perception of time in Victorian scientific theories: Lyell, Darwin and Maxwell*

Dana JALOBEANU, *Constructing natural historical facts: Baconian methodology in Newton's first paper on light and colors*

Raffaele PISANO, *Historical epistemology. Notes on Archimedes, Torricelli and Sadi Carnot*

Gábor A. ZEMPLÉN, *Methodological remarks on knowledge-production and text-production: Newton's optical controversy and methodological shifts*

2:15 – 3:45 pm

Chair: NN

Masaki HARADA, *Kant, Fichte and algebraic operations: Philosophy of algebra according to Jules Vuillemin*

Ivica MARTINOVIĆ, *With Bošković against Kant: Ivan Krstitelj Horvath on space and time*

Hennie LÖTTER, *Evolution as metaphor for scientific progress*

C1. Logic, Mathematics and Computer Science

THURSDAY 21

Symposium

10:30 am – 1:00 pm

PHILOSOPHY OF MATHEMATICAL PRACTICE

Organizer: José FERREIRÓS, Paolo MANCOSU

- Tom ARCHIBALD, Introductory lecture: *Fundamental mathematical objects in the late nineteenth century: a new look*

Roundtable:

- Kenneth MANDERS, *Human agency and mathematical reasoning*
- Brendan LARVOR, *Propositional reasoning and sociological aspects*
- Valeria GIARDINO, *Nonpropositional reasoning and cognitive aspects*
- Dirk SCHLIMM, *Symbolic reasoning and historical aspects of math practice*

Chair: Werner STELZNER

2:15 – 4:15 pm

Dale MILLER, *Synthetic connectives and their proof theory*

Luis ESTRADA-GONZÁLEZ, *On the meaning of connectives (Apropos of a non-necessitarianist challenge)*

Hervé BARREAU, *Lukasiewicz and Lorenzen as interpreters of Aristotle’s assertoric syllogistic*

Chair: Werner STELZNER

4:35 – 7:05 pm

Philippe ROUILHAN (DE), *Remarks on recursive definitions of truth*

Marcos SILVA, *“Muss Logik für sich selbst sorgen?” On contrary propositions and material logical truth as problems to the neutrality of logic*

Libor BEHOUNEK, *Fuzzy logics as the logics of linearly decomposable resources*

Piotr WILKIN, *How formalized are informal proofs?*

Peter GABROVSKY, *EXLOG: A non-standard logic programming language for experiment based research*

FRIDAY 22

2:15 – 4:15 pm

Symposium

ARE AESTHETIC APPROACHES IN PHILOSOPHY OF MATHEMATICS TOPICAL?

Organizer: Caroline JULLIEN

- Roger POUIVET, *Is the expression “mathematical beauty” only a metaphor?*
- Maria Giulia DONDERO, *Necessity in works of art and in sciences*
- Caroline JULLIEN, *The role of mathematics in the history of aesthetics*

Francesca BOCCUNI, *Plural logicism*

4:35 – 6:35 pm

Chair: Tom ARCHIBALDAndrea SERENI, Marco PANZA, *On the indispensable premises of indispensability arguments*Min TANG, *Ontology without abstract objects: A naturalistic defense of revolutionary fictionalism*Gabriel TÂRZIU, *What can science tell us about mathematical objects?*Simon FRIEDERICH, *Motivating Wittgenstein’s perspective on mathematical sentences as norms***SATURDAY 23**

10:30 am – 12:00 pm

Chair: Geoffrey HELLMANJean-Pierre MARQUIS, *Mathematical abstraction, variation and identity*Susan VINEBERG, *Explanation and two kinds of investigation in the foundations of mathematics*

2:15 – 4:15 pm

Chair: NNAmirouche MOKTEFI, *Representing the ‘universe of discourse’: historical origin and philosophical relevance of a graphical convention in mathematics and logic*Jean-Marie CHEVALIER, *Are mathematics and logic sciences of observation? A semi-otic approach to visual thinking*Ralf KRÖMER, *The duality of space and function, and category-theoretic dualities*Arne SEEHAUS, Martin ZIEGLER, *Raise and fall of scientific branches: On progress in mathematics*

Chair: NN

4:35 – 6:35 pm

Elaine LANDRY, *The genetic versus the axiomatic method: Resolving Feferman '77*Ahti-Veikko PIETARINEN, *A realist modal-structuralism*Jacobo ASSE, *Pluralism and mathematical objects*Michèle FRIEND, *Presenting pluralism in mathematics***MONDAY 25****Chair:** André W. CARUS

10:30 am – 12:00 pm

Sorin COSTREIE, *Frege on contentful mathematics*Paula QUINON, *Computational structuralism and Frege's constraint*Joachim HERTEL, *Frege on the iPad***Symposium**

1:30 – 4:15 pm

THEORIES OF CONTINUA:
LOGICAL AND PHILOSOPHICAL REFLECTIONS**Organizer:** Philip EHRLICH

- José FERREIRÓS, *Shifts in the conception of the continuum*
- Maximo DICKMANN, *The first-order logic of the continuum*
- Philip EHRLICH, *The unification of all numbers great and small*
- Paolo GIORDANO, *Knowledge comes from the dialectic between two worlds: The case of Fermat reals*
- Erik PALMGREN, *Constructive and non-constructive aspects of nonstandard analysis*
- Geoffrey HELLMAN, *On the plurality of continua*

Chair: Mic DETLEFSEN

4:35 – 6:35 pm

Mark VAN ATTEN *Kant and real numbers*Jari PALOMÄKI, *Kant, Cantor and the Burali Forti's paradox*Jaakko HINTIKKA, *Axiomatizing set theory*Jan WOLEŃSKI, *Constructivism and metamathematics*

TUESDAY 26*10:30 am – 12:00 pm***Chair:** NN

Samuel FLETCHER, Jason HOELSCHER-OBERMAIER, *Physical computability, efficiency, and the Church-Turing Thesis*

Nicola ANGIUS, *Corroboration of hypotheses and experimental computer science in software testing*

Liesbeth DE MOL, *The computer (as a medium) in mathematics. Mathematician-computer interaction, internalization, time and space squeezing*

C2. Cognitive Science (including Linguistics and Psychology)

FRIDAY 22

Chair: NN

10:30 am – 1:00 pm

Marcin MIŁKOWSKI, *Computational mechanisms and models of computation*

Patrice SOOM, *On levels of mechanisms*

Dairon RODRIGUEZ, Jorge HERMOSILLO, Bruno LARA, *The Chinese room argument and the symbol grounding problem: A new perspective*

Samuli PÖYHÖNEN, *Should I split or should I lump? The epistemic-tool approach to scientific concept formation*

Delphine BLITMAN, *What linguistic nativism tells us about innateness*

Chair: Marcin MIŁKOWSKI

2:15 – 4:15 pm

Jerry YANG, *In defense of a multiple content structure of self-representationalism*

Xiaoli LIU, *Representation and action: A theory of representation in the evolution-embodied cognition context*

Krystyna BIELECKA, *Are radical externalism and radical internalism the same?*

Manuel LIZ, Margarita VÁZQUEZ, *Two approaches to the notion of point of view*

Chair: Frédéric NEF

4:35 – 6:35 pm

Yannick CHIN-DRIAN, *A naive realist view of colour*

Lieven DECOCK, *Reflectance physicalism and contrast colours*

Yanxia FENG, *Emergent, mental causation and downward causation*

Kenneth AIZAWA, *The autonomy of psychology in the age of neuroscience*

SATURDAY 23

Chair: NN

10:30 am – 12:30 pm

Ulrike HAHN, *Measuring argument strength: A Bayesian approach*

Mariusz URBAŃSKI, Joanna URBAŃSKA, *Abduction and rumormongering to the most coherent interpretation*

Shushan CAI, Hongguang ZHANG, *The role of abduction in learning and cognition*

2:15 – 4:15 pm

Chair: David PEARCE

Yan GONG, *Is rational-emotive behavior theory based on the methodology of critical rationalism?*

Simone DUCA, *The suppositional Ramsey Test in decision making*

Nimrod BAR-AM, *Towards a rational theory of communication*

In-Rae CHO, *Reassessing the rationality war*

4:35 – 7:05 pm

Chair: Cyrille IMBERT

Gonzalo MUNÉVAR, *Damasio, self and consciousness*

Sascha Benjamin FINK, *How to falsify an NCC of specific conscious content*

Igor NEVVAZHAY, *Dual nature of consciousness*

Hernan MIGUEL, *The causal closure of the physical and the variable realization*

Błażej SKRZYPULEC, *The concept of “object” in the visual binding theories*

MONDAY 25

10:30 am – 12:00 pm

Chair: Ulrike HAHN

Cristiano CASTELFRANCHI, *Grounding social theory on action and cognition*

Tomoyuki YAMADA, *Dynamic logics of speech acts as formal simulations of social interaction*

2:15 – 3:45 pm

Chair: Christian THIEL

Philippe SCHLENKER, *What is dynamic in meaning?*

Manuel REBUSCHI, *De dicto versus de facto attitudes*

4:35 – 6:05 pm

Chair: Christian THIEL

Valentine REYNAUD, *Can innateness assumptions avoid the tautology problem?*

Lilia GUROVA, *The principle based explanations are not extinct in cognitive science: the case of the basic level effects*

Dingzhou FEI, *Blackboard system as model of problem solving in Sudoku puzzles*

TUESDAY 26

Chair: NN

10:30 am – 12:00 pm

Fritz HAMM, *On anaphora resolution: Some methodological remarks*

Michele ABRUSCI, Christian RETORÉ, *Quantification in ordinary language: from a critique of set-theoretic approaches to a proof-theoretic proposal*

Chair: NN

2:15 – 4:15 pm

Joana HOIS, Oliver KUTZ, *Towards linguistically-grounded spatial logics*

Erwin ENGELER, *Algebras of the mind and algebras of the brain*

Oliver KUTZ, Joana HOIS, *Steering ontological blending*

Paweł ŁUPKOWSKI, *Cooperative answering and inferential erotetic logic*

C3. Biology

WEDNESDAY 20

10:30 am – 11:30 pm

Chair: Jean GAYON

Tim LEWENS, *Pheneticism reconsidered*

2:15 – 4:15 pm

Chair: Jean GAYON

Jean-Sébastien BOLDUC, *Adaptationism: Behind criticisms and typologies, the tool*

Walter RIOFRIO, *Cellular dynamics at the beginning of prebiotic world*

Manuel de PINEDO GARCÍA, *Individuation for holists: (physical) dispositions and (biological) affordances*

Paolo LATTANZIO, Raffaele MASCELLA, *On informational schemes in biology*

4:35 – 7:05 pm

Symposium

EVOLUTION OF BIOLOGICAL COMPLEXITY

Organizers: Matteo MOSSIO, Francesca MERLIN

- Matteo MOSSIO, *How does organized complexity evolve?*
- Francesca MERLIN, *Heterogeneity, evolution and complexity*
- Paul-Antoine MIQUEL, *Vicious and virtuous circles in molecular and cellular biology*
- Pierre-Alain BRAILLARD, *Adaptive vs. neutralist models of the evolution of complexity*
- Werner CALLEBAUT, *Beyond flat earth systems biology: Biocomplexity research as an exemplar of multilevel, multiscale modeling*
- Arantza ETXEBERRIA, *Towards an articulation of the generative and genealogical aspects of living organization*

THURSDAY 21

10:30 am – 12:30 pm

Chair: John DUPRÉ

Michel MORANGE, *The rise of post-genomics and epigenetics: Continuities and discontinuities in the history of biological thought*

Emmanuel D'HOMBRES, *The Darwinian muddle on the 'Division of physiological labor': An attempt of clarification*

Charles WOLFE, *From substantial to functional vitalism and beyond in biomedical thought: animas, organisms and attitudes*

Chair: Ellen CLARKE

2:15 – 4:15 pm

Íñigo ONGAY, *A materialist account of scientific reasoning in ethology*

Lukasz LAMZA, *Computational biophysics as a case against intertheoretic reduction*

Christian SACHSE, *Conservative reduction of biology*

Rong-Lin WANG, *On Rosenberg's Darwinian reductionism*

Chair: Jane MAIENSCHIN

4:35 – 6:35 pm

Maël LEMOINE, *Function as a causal role in a biological model*

Andrea LOETTIGERS, Tarja KNUUTTILA, *Modeling/experimenting? The combinatorial strategy in synthetic biology*

Laura NUÑO DE LA ROSA, *Modelling development and evolution in three dimensions*

Stefan PETKOV, *The fitness landscape metaphor: Dead but not gone*

FRIDAY 22

Chair: Rong-Lin WANG

10:30 am – 12:30 pm

Andreea EȘANU, *An argument against the evolutionary contingency thesis*

Donato BERGANDI, *Ecology, evolution, ethics: In search of a meta-paradigm*

Jean GAYON, *Economic natural selection: What concept of selection ?*

Hisashi NAKAO, Edouard MACHERY, *The evolution of punishment*

Chair: Michel MORANGE

2:15 – 4:15 pm

Hsien-I CHIU, Bo-Chi G. LAI, *A moderate solution to the debate over species concept*

Jane MAIENSCHIN, *Are embryos what we thought they were, and how do we know?*

Jon UMEREZ, *Epistemological reconstruction of the concept of level. Some preliminaries and a proposal*

Jonathan BIRCH, *Is the concept of life response-dependent?*

SATURDAY 23*10:30 am – 12:00 pm***Chair:** Charles WOLFE

Thomas REYDON, *Addressing a theory-practice gap: What can kind essentialism contribute to understanding classificatory practices in biology?*

Edit TALPSEPP, *Essentialism, Darwinism and theory theory*

Pablo LORENZANO, *The status of the Hardy-Weinberg law*

*2:15 – 3:15 pm***Chair:** Christian SACHSE

Hsiao-Fan YEH, *Why the classical mendelian genetics are necessary? — A comparison of Lindley Darden's mechanism approach with C. Kenneth Waters' genetic approach*

Ellen CLARKE, *Biological individuality in plants and beyond—A reconciliation for the genet-ramet dispute*

C4. Chemistry

THURSDAY 21

Chair: NN

10:30 am – 13:00 pm

Davis BAIRD, *Many ways of knowing*

Alfred NORDMANN, *Knowing and making in an impure science*

Martín LABARCA, Olimpia LOMBARDI, *The ontological autonomy of the chemical world: Further arguments*

FRIDAY 22

Chair: Alfred NORDMANN

10:30 am – 12:00 pm

Rein VIHALEMM, *Philosophy of chemistry against standard scientific realism and anti-realism*

Jean-Pierre LLORED, *Relational philosophy as root for the epistemology of chemistry*

Alexander PECHENKIN, *The paradigm changes in the study in the Belousov-Zhabotinsky reaction*

C5. Physics

WEDNESDAY 20

2:15 – 3:45 pm

Chair: NN

Mathias FRISCH, *Incantations of ‘causation’ and other philosophical sins, or: Rehabilitating Ritz*

Thomas ANGELIDIS, *Special relativity prohibits spacelike causation and some implications*

Kent PEACOCK, *Would superluminal influences violate the Principle of Relativity?*

4:35 – 6:05 pm

Chair: NN

Carl HOEFER, *Mach’s principle and the philosophy of space/time: What nature is trying to tell us*

Mike TAMIR, *Proving the principle: General relativity and geodesic universality*

Marko URŠIČ, *Paradoxes of transfinite cosmology*

THURSDAY 21

10:30 am – 1:00 pm

Chair: Marko URŠIČ

Pandora HADZIDAKI, *Bohr’s model of the atom: Methodology, consistency and fruitfulness*

Albert SOLÉ, *Bohmian mechanics without wave function ontology*

Iñaki SAN PEDRO, *Causal relevance of measurement operations in the EPR paradox*

F. A. MULLER, *Circumveiled by obscuritads*

Lev VAIDMAN, *The past of a quantum particle*

FRIDAY 22

10:30 am – 12:30 pm

Chair: Olimpia LOMBARDI

Roman FRIGG, *Explaining the approach to equilibrium in terms of epsilon-ergodicity*

Graziana CONTE, *Information measures induced by partial Boolean algebras*

Louis VERVOORT, *Probability is composed. The frequency interpretation of probability revisited*

Chair: Mathias FRISCH

2:15 – 4:15 pm

Emboussi NYANO, *Einstein's philosophy and post-critical philosophy of science*

Naoum DAHER, *From independent models to a unified theory of dynamics*

Leba SLEIMAN, *Problems and promises of scientific method*

Sandra MOLS, *Going round the lack of time: Enforced entrusting and silent inter-expertise trading in time-short nanomagnetism knowledge making*

Chair: NN

4:35 – 7:05 pm

Arnaud MAYRARGUE, *An illustration of the importance of the epistemological point of view and of the context in Sciences: The astronomical refraction case during the 18th century.*

Vassilios KARAKOSTAS, *Correspondence truth and quantum mechanics*

Johannes ROEHL, *Forces—relations or dispositions?*

Raquel Anna SAPUNARU, *Leibniz symmetry and harmony*

Steffen DUCHEYNE, *Testing universal gravitation in the laboratory, or the significance of research on the mean density of the earth and Big G, 1798-1898*

SATURDAY 23

Chair: NN

10:30 am – 12:30 pm

Miklos REDEI, *Einstein meets von Neumann: operational separability and operational independence in algebraic quantum field theory*

Tomasz BIGAJ, *How to exchange quantum particles of the same type*

Elena CASTELLANI, *Fundamentality, elementariness and scales*

Chair: Martin CARRIER

2:45 – 4:15 pm

Robert DiSALLE, *Explanation, explication, and interpretation of space-time theories*

Michael FRIEDMAN, *Einstein and the a priori*

4:35 – 7:05 pm

Chair: NNPierre UZAN, *Quantum theory beyond physics*Morgan TAIT, *The case for quantum state realism*Wayne MYRVOLD, *Prospects for quantum state monism*Juan Sebastián ARDENGHI, Sebastian FORTIN, Olimpia LOMBARDI, *The conceptual meaning of reduced states: Decoherence and interpretation*Paul NÄGER, *Why quantum non-locality implies parameter dependence***MONDAY 25**

10:30 am – 12:30 pm

Chair: Miklos REDEI**Craig CALLENDER**, *The flow of space?*Aristidis ARAGEORGIS, *Spacetime as a causal set: Universe as a growing block?*Juliusz DOBOSZEWSKI, *Specious present in branching space-times*

2:15 – 3:45 pm

Chair: Michael STÖLTZNERMichael CUFFARO, *Many worlds, the cluster-state quantum computer, and the problem of the preferred basis*Arianne SHAHVISI, *The gravity of the past hypothesis: Lessons learnt from Earman and Wallace*Graham NERLICH, *Bell's Lorentzian Pedagogy: A bad education*

4:35 – 6:05 pm

Chair: Vassilios KARAKOSTASNazim BOUATTA, Jeremy BUTTERFIELD, *Emergence and reduction combined in infinite systems*Matt FARR, *On the status of temporal unidirectionality in physics*Argyris NICOLAIDIS, *Relational logic and modern science*

TUESDAY 26**Symposium***10:30 am – 12:30 pm*EPISTEMOLOGICAL PERSPECTIVES
ON THE LARGE HADRON COLLIDER

Michael STÖLTZNER

- Michael STÖLTZNER, *Higgs models and other stories about mass generation*
- Arianna BORRELLI, *The practice of model-building in contemporary high energy physics: the example of “technicolor”*
- Koray KARACA, *Selectivity and robustness in experimental research: Lessons from the Large Hadron Collider*

Alexandre GUAY, *Objectivity and physical symmetries***Chair:** Graham NERLICH*2:15 – 4:15 pm*Adán SUS, *Is inertia explained in general relativity?*Montgomery LINK, *Rotating universe*Hajime TANAKA, Koji NAKATOGAWA, Hiroyasu NAGATA, *A proposition called T0906 and Gödel’s incompleteness theorem*Julien BERNARD, *From the hole argument (A. Einstein) to the ball of clay argument (H. Weyl)*

C6. Medicine

THURSDAY 21

2:15 – 3:15 pm

Chair: Chhanda CHAKRABORTI

Renzong QIU, *Ontological and moral status of human-nonhuman animal mix organisms*
Xiaomei ZHAI, *Philosophical and ethical issues in use or abuse of human body and its parts in biomedical technologies*

MONDAY 25

10:30 am – 12:30 pm

Chair: Claude DEBRU

Miriam SOLOMON, *Evidence-based medicine and mechanistic reasoning in the case of cystic fibrosis*
Stéphanie VAN DROOGENBROECK, *Experimental philosophy and evidence based medicine: Two criticized ways of doing science*
Jan DE WINTER, *How to make the research agenda in the health sciences less distorted*

2:15 – 3:45 pm

Chair: Anne FAGOT-LARGEAULT

Anne CAMBON-THOMSEN, *Data driven research and large scale studies in biomedical research: What consequences for data sharing and bioethics in human genetics?*
Sébastien JANICKI, *Between variability of the body and determinism of the care: a “mediated” relation*

4:35 – 6:05 pm

Chair: Miriam SOLOMON

Chhanda CHAKRABORTI, *Vulnerability from Infectious diseases and social determinants of health: In search for an ontology to guide health policy development*
Noemí SANZ, *How and why to epistemologically study applied bioethics to nanomedicine*
Marc KIRSCH, *When society speaks to science: Politics, social representations and industrial interests in the medical definition of the concept of addiction, in the case of tobacco and nicotine*

C7. Environmental Sciences

FRIDAY 22

Chair: Robert FRODEMAN

10:30 am – 12:30 pm

Kevin ELLIOTT, *The nature and significance of selective ignorance in environmental research*

Constantin STOENESCU, *A new way of thinking in environmental sciences*

Michael POZNIC, Rafaela HILLERBRAND, *Climate science or climate fiction? The role of fictional elements in physics and in Earth sciences*

Chair: Kevin ELLIOTT

2:15 – 3:15 pm

Rodolfo HERNANDEZ, *Let the water flow to the City: A recent history of the water saving technologies for agriculture in China*

Joel KATZAV, *Hybrid models, climate models and inference to the best explanation*

C8. Economics and Social Sciences

FRIDAY 22

10:30 am – 12:00 pm

Chair: Uskali MÄKI

Don Ross, *The evolution and strategic dynamics of individualistic norms*

Chrysostomos MANTZAVINOS, *Which theory of explanation for the social sciences? Unificationist, mechanistic or manipulationist?*

2:15 – 3:45 pm

Symposium

DUALITY WITHIN HUMAN SCIENCES

Organizer: Antonella CORRADINI, Nicolò GAJ, Giuseppe LO DICO

- Antonella CORRADINI, *The epistemological status of empathy in the human sciences*
- Giuseppe LO DICO, *The place of verbal reports in cognitive psychology*
- Nicolò GAJ, *The double soul of clinical psychology: a two-faced methodology between monism and dualism*

4:35 – 6:05 pm

Symposium

DECISION THEORY IN ECONOMICS:
BETWEEN LOGIC AND PSYCHOLOGY

Organizer: Samuel FEREY

- Jean-Sébastien LENFANT, *Between axiomatics and psychology: Probabilizing the consumer in the 1950's*
- Brian HILL, Michaël COZIC, *On representation theorems, what does ax add?*
- Samuel FEREY, *Normative stakes for behavioral economics*
- Nicola GIOCCOLI, *Savage vs. Wald on “complete ignorance”: was Bayesian decision theory the only available alternative for postwar economics?*

SATURDAY 23

10:30 am – 11:30 pm

Chair: Chrysostomos MANTZAVINOS

Uskali MÄKI, *Scientific realism and disciplinary diversity: Revisionist remarks*

Chair: Chrysostomos MANTZAVINOS

2:15 – 4:15 pm

Wei WANG, *Are there laws in the social sciences?*

Ana Maria TALAK, *Reconsidering values in assessing the progress of historiography of psychology*

Michel BOURDEAU, *Two conflicting ideas upon the nature and the goals of man's action upon social phenomena*

Romulus BRANCOVEANU, *Weber's and Pareto's theories as methodological programs*

Symposium

4:35 – 7:05 pm

BUSINESS ETHICS AND ANALYTIC PHILOSOPHY

Organizer: Christoph LÜTGE

- Christian LIST, *Collective responsibility and its ethical implications from an analytic perspective*
- Lisa HERZOG *Business ethics and virtue ethics—Great love or strange bedfellows?*
- Michael von GRUNDHERR, *Reasons and incentives in the health care system*
- César CANTON, *Exploring emotions' cognitive value through the analysis of moral language. Some implications for human resource management*
- Christoph LÜTGE, *Are good reasons and incentives compatible within a contractarian business ethics?*

MONDAY 25

Chair: NN

10:30 am – 12:30 pm

Donald MACKENZIE, *The credit crisis as a problem in the sociology of knowledge*

Daniel ECKERT, *Guilbaud's reading of Arrow's theorem*

Carlo MARTINI, *Modeling expertise in economics*

Chair: Wei WANG

2:15 – 4:15 pm

Paul WEIRICH, *Decisions without Sharp probabilities*

Silvia HARING, Paul WEINGARTNER, *On the conceptual clarification of "human environment", "action space" and "quality of life"*

Adrian MIROIU, *Two approaches to representative voting*

Esa DIAZ-LEON, *What is social construction?*

D. Methodological and Philosophical Issues in Technology

FRIDAY 22

10:30 am – 12:30 pm

Chair: NN

Wendy PARKER, *The target of testing: Models, adequacy and scientific knowledge*
Marcello FRIXIONE, **Antonio LIETO**, *Formal ontologies and semantic technologies: A “Dual Process” proposal for concept representation*
Baptiste MÉLÈS, *Nominalism of things and nominalism of events, from Turing Machines to functional programming*

2:15 – 3:45 pm

Chair: Michel BOURDEAU

Christopher EVANS, *Technoscience: Illuminating new blue skies*
Insok KO, *How to recycle Asimov’s laws in roboethics: An intermediate suggestion*
Nicolas DELHOPITAL, *Science, technology and society. An attempt to think their link through Maurice Blondel’s (1861-1949) philosophy of action*

4:35 – 6:35 pm

Chair: Sven Ove HANSSON

Manjari CHAKRABARTY, *An inquiry into the character of material artifacts*
Yamina BETTAHAR, **Benoît ROUSSEL**, *Production of intermediary objects in a collaborative network: Examples of impact on tools and methods in engineering innovation*
Pawel GARBACZ, *Artefacts and family resemblance*
Margarita VÁZQUEZ, **Manuel LIZ**, *Models, commentaries, and theories*

SATURDAY 23

10:30 am – 12:00 pm

Chair: Françoise LONGY

Peter KROES, *Knowledge and the design and making of technical artefacts*
Sven Ove HANSSON, *What is so special with technological science?*

Symposium

2:15 – 4:15 pm

ARTEFACT FUNCTIONS

Organizer: Wybo HOUKES

- Wybo HOUKES, *Technical functions and the dynamics of innovation*
- Françoise LONGY, *Theories of artefact function facing the challenge of wrong function attributions*
- Pieter VERMAAS, *Technical functions and engineering-design methodology*

Luca DEL FRATE, *Technical malfunction in terms of states and events*

MONDAY 25**Chair:** Wendy PARKER

10:30 am – 12:00 pm

Roger COOKE, *Applications of philosophy: The bottom half*

Martin A. VEZÉR, *Comparing methodologies of classical, natural, field and computer experiments deployed in climate change studies*

Susan G. STERRETT, Adrian BEJAN, *Geometric configuration in nature and in design: is there a connection?*

2:15 – 4:15 pm

Symposium

DESIGN AS A CHALLENGE FOR THE PHILOSOPHY OF SCIENCE

Organizers: Maarten FRANSEN, Sjoerd D. ZWART

- Richard BUCHANAN, *Tba*
- Maarten FRANSEN, Sjoerd D. ZWART, *Instrumental system as a sui generis kind of system central to engineering design*
- Riichiro MIZOGUCHI, *Functional ontology viewed from engineering point of view*
- Ibo VAN DE POEL, *Trade-offs and commensurability in engineering design*

Affiliated Symposia

TUESDAY 19**Symposium “Conférences Pierre Duhem”**

THE PHILOSOPHY OF ARTIFICIAL INTELLIGENCE

Chairs: Max KISTLER, Cyrille IMBERT**Speakers**

- Clark GLYMOUR, *How to discover what the brain does*
- Aaron SLOMAN, *Evolution of mind as a feat of computer systems engineering: Lessons from decades of development of self-monitoring virtual machinery*

Respondents

- Isabelle DROUET
- Jean-Paul HATTON
- Philippe DE GROOTE

WEDNESDAY 20**Beth Foundation Symposium**

LOGIC, KNOWLEDGE AND AGENCY

Chairs: Sonja SMETS

- Adam BRANDENBURGER, *t.b.a.*
- Olivier ROY, Eric PACUIT, *A dynamic analysis of interactive rationality*
- Cédric DÉGREMONT, *t.b.a.*
- Manuel REBUSCHI, Franck LIHOREAU, *When epistemic logic meets skepticism*
- Guillaume AUCHER, *Reasoning with incomplete information in DEL*
- Alexandru BALTAG, *t.b.a.*

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Association for the Philosophy of Mathematical Practice Symposium

PHILOSOPHY OF MATHEMATICAL PRACTICE

Chairs: Jessica CARTER, Marco PANZA

- Andrew ABERDEIN, *Explanation and argument in mathematical practice*
- Karine CHEMLA, *Describing mathematical practices and the interpretation of texts. Some views based on Chinese mathematical sources*
- Albrecht HEEFFER, *The Recreational and the mathematical practice of Récréations Mathématiques (1624)*
- Bart VAN KERKHOVE, *Argumentative networks: Integrating philosophical approaches to argumentation, AI models, and mathematical practice*
- Ladislav KVASZ, *Rooting (Maddian) realism in mathematical practice*
- Javier LEGRIS, *Symbolic knowledge in Peirce's existential graphs*
- Jemma LORENAT, *Kronecker's constructs*
- Benedikt LÖWE, *The interface between philosophy of mathematics and the empirical study of the mathematical profession*
- Danielle MACBETH, *Proof and understanding in mathematical practice*
- Madeline M. MUNTERSBJORN, *Real relations between possible objects*
- Jairo José DA SILVA, *The applicability of mathematics*

THURSDAY 21

LOCI Symposium

REBUILDING LOGIC AND RETHINKING LANGUAGE IN INTERACTION TERMS

Chair: Alain LECOMTE

- Lionel VAUX, *Tutorial on ludics*
- Christophe FOUQUERÉ, *Computational tools derived from Ludics and their use in web technologies*
- Alain LECOMTE, Myriam QUATRINI, *Towards theoretical pragmatics based on ludics*
- Christian RETORÉ, Michele ABRUSCI, *Interactional quantification (Quantification in ordinary language: from a critique of set-theoretic approaches to a proof-theoretic proposal)*
- Jean-Baptiste JOINET, *Proto-logical foundations of logic*

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Affiliated symposium of the EuroCoRes programme LogICCC

LOGICAL MODELLING: THE INTERFACE BETWEEN THE FORMAL AND THE
EMPIRICAL

Chairs: Eva HOOGLAND, Benedikt LÖWE

- Jesse ALAMA, *DiFoS 2: Fine-grained mathematical justifications*
- Denis BONNAY, *LINT: An empirical perspective on logical constants*
- Petr CINTULA, *LoMoReVi 2: Multiplicative quantifiers in first-order fuzzy logics*
- Carles NOGUERA, *A new approach to fuzzy logics with truth stressers and de-pressers*
- Niki PFEIFER, *Towards an experimental philosophy of uncertain reasoning*
- Gerhard SCHURZ, Paul THORN, *LcpR 1: A simulation based analysis of logico-probabilistic reasoning systems*
- Sara UCKELMAN, *Faithfulness in formal modelling*
- Robert VAN ROOIJ, *Be tolerant about vagueness, because it is unavoidable!*

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Société de Philosophie des Sciences Symposium

CLIMATE SCIENCE AND CLIMATE CHANGE: EPISTEMOLOGICAL AND
METHODOLOGICAL ISSUES (SOCIÉTÉ DE PHILOSOPHIE DES SCIENCES
SYMPOSIUM)

Chairs: Anouk BARBEROUSSE, Cyrille IMBERT, Stéphanie RUPHY

- Minh HA-DUONG, *Review of risk and uncertainty concepts for climate change assessments including human dimensions*
- Roman FRIGG, *Decision-making with climate models?*
- Wendy PARKER, *Conveying uncertainty: Ownership, justification and robustness*
- Franck LECOCQ, *At risk of the very long run: How economics can inform climate decision*
- Lenny SMITH, *Insight or numbers? Distinguishing climate science from climate modelling*

FRIDAY 22

LORIA Symposium

ANALYSING PROGRAMS: LOGIC AT RESCUE

Chair: Véronique CORTIER

- Gérard BERRY, *Logic and digital circuits: From theory to practice*
- Pierre LESCANNE, *Coinduction, equilibrium and rationality of escalation*
- Philippe SCHNOEBELEN, *What's the craze with model checking?!*
- Moshe VARDI, *From philosophical to industrial logics*
- Pierre WOLPER, *Logic without formulas: Automata as a computational notation*

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International Institute of Foundational, Interdisciplinary and Historical Problems of Science Symposium

LOGICAL AND PHILOSOPHICAL FOUNDATIONS OF SCIENCE AND
TECHNOLOGY—HISTORICAL DEVELOPMENT, CONTEMPORARY
INVESTIGATIONS, AND PERSPECTIVES

Chair: Boris CHENDOV

- Boris CHENDOV, *Interdisciplinary approach to logical and philosophical foundations of science*
- John SHOSKY, *Harre on modeling*
- Alexander KUZICHEV, *Sequential logic in foundations of science: History and current research*
- Michel PATY, *Quantum decoherence and the physical meaning of the superposition principle*
- Peeter MÜÜRSEPP, *The problems of knowledge as the core of scientific inquiry*
- Leo NÄPINEN, *On the limits of the exact science*
- Wei WANG, *The philosophical treatment of space and time in Chinese science and technology*
- Galina A. ZVERKINA, *On the revolution in the mathematics in the end of XIX—the beginnings of XXth century*
- Galina WEINSTEIN, *The “dialogue”, a rhetorical tool in social context: Galileo and Einstein*

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Symposium

METHODOLOGICAL PROBLEMS OF TECHNOSCIENCE

Chairs: Vitaly GOROKHOV, Armin GRUNWALD

- Armin GRUNWALD, *Emerging technosciences and changing relations between technology, science and nature: the case of synthetic biology*
- Vitaly GOROKHOV, *Nanotechnoscience as combination of the natural and engineering sciences (Methodological specialty of the theoretical investigation in the nanotechnology)*
- Fabrice PATAUT, *Postulated theoretical entities vs. technological real entities: Remarks on Hacking and Giere*
- Max URCHS, *On enlightened intuition*
- Maarten FRANSEN, *The problem of the justification of beliefs in science vs. actions in technoscience*

SATURDAY 23

N.O.T. Symposium

THE LOGIC OF OPPOSITION

Chair: Fabien SCHANG

- Saloua CHATTI, *Import, or not import? How to handle negation inside the square*
- Lorenz DEMEY, *Structures of oppositions in public announcement logic*
- Dany JASPERS, *Oppositions between quantifiers, colours, and numerals*
- John T. KEARNS, *Negative acts and negative characters: declining, preventing, refusing, and failing*
- Ingolf MAX, *Multi-dimensional opposition*
- Alessio MORETTI, *The oppositional geometry of set-theoretical inclusion*
- Fabien SCHANG, *An arithmetization of the logic of oppositions*
- Hans SMESSAERT, *On the hybrid nature of the Aristotelian Square and the Sesmat-Blanché hexagon*

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**International Academy for Philosophy of Science
Symposium**

SCIENCE AND RATIONALITY

Chair: Evandro AGAZZI

- Christian THIEL, *The mathematical paradigm of rationality*
- Anne FAGOT-LARGEAULT, *The analytic vs synthetic approach in the experimental sciences*
- Jesús ZAMORA-BONILLA, *Realism and rationality in the natural and in the social sciences*
- Evandro AGAZZI, *Non-scientific forms of rationality*

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Ontology Symposium

ONTOLOGY BETWEEN PHILOSOPHY AND COMPUTER SCIENCE

Chairs: Heinrich HERRE, Roberto POLI

- Thomas MORMANN, *Wholes in structural mereology*
- Claudio GNOLI, *Freely faceted classification for knowledge organization*
- Frédéric NEF, *Ontology and Terminology*
- Roberto POLI, *Ontological categories*

- Oliver KUTZ, *Logical pluralism in ontology design*
- Heinrich HERRE, *An ontological foundation for the reconstruction of theories*
- David HIRST, *Some assumptions of systems theory*

MONDAY 25

Symposium

INTUITIONISTIC MODAL LOGICS AND APPLICATIONS WORKSHOP (IMLA'11)

Chairs: Natasha ALECHINA, Valeria DE PAIVA

- Michael MENDLER, *A simply typed calculus for semantic knowledge bases: Curry-Howard for constructive modal logics*
- Brian LOGAN, *Keeping track of reasons for beliefs*
- Lutz STRASSBURGER, *Nested sequent systems for intuitionistic and modal logics*
- Luiz Carlos PEREIRA, *On the truth and meaning of constructive modalities*
- Giuseppe PRIMIERO, *A multi-modal type theory and its procedural semantics for safe distributed programming*
- Robert SIMMONS, Bernardo TONINHO, *Constructive Provability Logic*
- Newton M. PERON, Marcelo E. CONIGLIO, *A generalization of Dugundji's theorem*
- Gianluigi BELLIN, Kurt RANALTER, *Expectations: On pragmatic interpretations of classical logic in a bi-intuitionistic environment*

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