



conference-apmp : 3eme Conference de l'Association for Philosophy of Mathematical Practice
2-4 nov. 2015 Paris (France)

Navigation

[Accueil](#)

[Hébergement](#)

Espace connecté

Nom d'utilisateur

Mot de passe

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SUPPORT

[Documentation](#)

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3ème Congrès de la
Association for the
Philosophy of Mathematical
Practice (APMP) Paris,
Institut Henri Poincaré
Novembre 2-4, 2015

Lundi, Novembre 2, 2015

8:30 – 9:30: ENREGISTREMENT

9:30 – 10:00: OUVERTURE DES
TRAVAUX : Marco Panza, Jessica Carter, José
Ferreiros

10:00 – 11:30: Président : Marco Panza

Paolo Mancosu (UC,
Berkeley, USA), *Definitions*
by abstraction and the
nature of abstracta from
Grassmann to Weyl

11:30 – 11:45: PAUSE CAFÉ

11:45 – 13:15: COMMUNICATIONS

Amphi Hermite Salle 01 Salle 201

Président : Président : Président :
Giorgio Venturi Gisele Secco

11:45 – 12:30

Pauline van Wierst	Yacin Hamami	Moreno Andreatta
(Scuola Normale Superiore, Italy)	(Vrije Universiteit Brussel, Belgium)	(IRCAM- CNRS-UPMC, France)
<i>Grounding in Bolzano's Purely Analytic Proof</i>	<i>The granularity of proof: McKay's Proof of Cauchy's Group theorem as a case study</i>	<i>Exploring the « mathmusical » dynamics: some theoretical and philosophical aspects of a musically driven mathematical practice</i>

12:30 –13:15

Georg Schiemer Davide Crippa Karen Francois

(University of Vienna, Austria)	(Université Paris Diderot, France)	(Free University Brussels, Belgium)
<i>Duality and transfer principles: The rise of model- theoretic methods in projective geometry.</i>	<i>From irreducible to reducible impossibility theorems : A shift in mathematical practice</i>	<i>Brendan Larvor (University of Hertfordshire, UK) The concept of culture in the study of</i>

*mathematical
practice*

13:15 – 15:00: PAUSE DÉJEUNER

14:45 – 15:00: *Bourbaki à l'Amphi Hermite*, Jean-Jacques Szczeciniarz

15:00 – 16:30: Président : Jean-Jacques Szczeciniarz

Danielle Macbeth
(Haveford College, USA), *Logical Form, Mathematical Practice, and Frege's Begriffsschrift.*

16:30 – 17:00: PAUSE CAFÉ

17:00 – 18:30: COMMUNICATIONS

Amphi Hermite	Salle 01	Salle 201
Président :	Président :	Président :

17:00 – 17:45

Madeline Muntersbjorn (University of Toledo, USA)	Sorin Bangu (University of Bergen, Norway)	J. Brian Pitts (Cambridge University, UK)
<i>Geometric rectification & Algebraic Representation</i>	<i>Mathematical Knowledge from a Psychological point of view</i>	<i>Theory Testing, Theory Construction, and Ontology for Space-time: What Theory(s), Logic(s), and Geometry(s)</i>

Do We Need?

17:45 – 18:30

Javier Legris Markus Pantsar Méven Cadet

(IIEP-BAIRES, (University of (Universite
UBA-CONICET,Helsinki, Paris 1,
Argentina) Finland) France)

<i>Symbolic</i>	<i>Metaphors and The</i>
<i>knowledge and</i>	<i>Mathematical Logocentric</i>
<i>the constitution</i>	<i>concepts Predicament:</i>
<i>of objects in</i>	<i>What about a</i>
<i>Mathematical</i>	<i>Semantic</i>
<i>Practice.</i>	<i>Theory? A</i>
	<i>study of</i>
	<i>Frege's case</i>

Mardi, Novembre 3, 2015

9:30 – 11:00: Président :

Abel Lassalle Casanave (Univ.
Fed. De Bahia, Brésil), *Toward a*
rhetorical analysis of proofs

11:00 – 11:30: PAUSE CAFÉ

11:30 – 13:00: COMMUNICATIONS

Amphi Hermite Salle 01	Salle 201
	(deuxième
Président :	Président :
	étage)

Président :

11:30 – 12:15

James	Gisele Secco	Roy Wagner
Tappenden	(Universidade	(Tel Aviv

(University of Michigan, USA)	Federal do Rio Grande do Sul, Brasil)	University, Israel)
<i>Styles of Mathematical Explanation</i>	<i>On the Four-color theorem</i>	<i>A constraints based philosophy of mathematics</i>

12:15 –13:00

Giorgio Venturi	Luca San Mauro	Ansten Klev
(University of Campinas, Brasil)	(Scuola Normale Superiore, Italy)	(Czech Academy of Sciences, Czech Republic)
<i>Mathematical explanation and its practice</i>	<i>Taking Foundational Programs as practices themselves : Informal proofs in computability</i>	<i>The algebraic notion of function</i>

13:00 – 15:00 : PAUSE DÉJEUNER

15:00 – 16:30 : Présidente : Valeria Giardino

Jeremy Gray (Open University, Milton Keynes, UK), *Hermann Weyl: matter and epistemology*

16:30 – 17:00 : PAUSE CAFÉ

17:00 – 18:30 : COMMUNICATIONS

Amphi Hermite Salle 01 Section 201

Président : Président : Président :

17:00 – 17:45

Rochelle Gutierrez (University of Illinois at Urbana-Champaign, USA)	Walter Dean (University of Warwick, UK) <i>Degrees and difficulty</i>	Michele Ginammi (Scuola Normale Superiore, Italy) <i>Avoiding reification : The heuristic effectiveness of mathematics and the discovery of the omega-particle</i>
<i>What is Mathematics? Preservice Secondary mathemstics Teachers' Perceptions</i>		

17:45 – 18:30

Emily Grosholz (Penn State, USA) <i>Report on ICSU Workshop on Cultures of Mathematical and Research Training</i>	Yaroslav D. Sergeyev (Università della Calabria, Italy) <i>Methodological aspects of a new approach allowing one to work with infinities and infinitesimals numerically</i>	Karl-Heinz Schlote (University of Hildesheim, Germany) <i>Carl Neumann's view on mathematical physics</i>
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19:00 – 20:00: Assemblée Générale de l'APMP, IHPST,

13, rue du Four, 75006 Paris

Mercredi, Novembre 4, 2015

9:30 – 11:00: Président :

Silvia De Toffoli (Stanford Univ.), *'Chasing' the Diagram—The Use of Space in Algebraic Reasoning*

11:00 – 11:30: PAUSE CAFÉ

11:30 – 13:00: COMMUNICATIONS

Amphi Hermite	Salle 01	Salle 201
	Président :	Président :
Président :		

11:30 – 12:15

Joachim Frans and Bart Van Kerkhove (Vrije Universiteit Brussel, Belgium) <i>A contextual approach to the explanatory value of mathematical visualisations</i>	Luis Gastaldi (Paris Ouest Nanterre, France) <i>Boole's arithmetic of 0 Geometry, and 1 : The mathematical conditions of logic</i>	Eduardo Giovannini (CONICET, Argentina) <i>Hilbert on Continuity and Purity</i>
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12:15 – 13:00

Colin Jakob Rittberg (University of	Dirk Schlimm (McGill, Canada)	Elías Fuentes Guillén (USAL, Spain /
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Hertfordshire, UK)	<i>Towards a cognitive and pragmatic Mathematical Pull</i>	UAEMex, Mexico) "Bienvenue, Monsieur Brejnev". Weierstrass or the dilemma of revolutionaries
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13:00 – 15:00 : PAUSE DÉJEUNER

15:00 – 16:30 : COMMUNICATIONS

Amphi Hermite	Salle 01	Salle 201
Président :	Président :	Président :

15:00 – 15:45

José Ferreirós (University of Sevilla, Spain) <i>Practice and ideology behind Wigners</i>	Eric Vandendriessche (Universite Paris Diderot, France) <i>String figures as mathematics?</i>	Kevin Kuhl (University of Toronto, Canada) <i>Structuralism and (meta) mathematical disagreement</i>
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15:45 – 16:30

Davide Rizza (University of East Anglia, UK), <i>Mathematisation : An elementary analysis</i>	Pietro Milici (University of Palermo, Italy) <i>A finitist extension of Descarte's</i>	Fenner Tanswell (St Andrews, Scotland) <i>Rigor, proof and mathematical</i>
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*balance between virtues
machines,
algebra and
geometry*

16:30 – 17:00 : PAUSE CAFÉ

17:00 – 18:30 : Président :

Leo Corry (Tel-Aviv Univ.
Israel). *Geometry and arithmetic
in the mathematical practice of
the medieval and renaissance
traditions of Euclid's Elements*

Personnes connectées : **1**



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