IHΦST

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

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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 : Giorgio Venturi	Présidente : Gisele Secco	Président :

11:45 – 12:30

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

12:30 –13:15

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

*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)
Geometric rectification & Algebraic Representation	*Mathematical Knowledge from a Psychological point of view*	*Theory Testing, Theory Construction, and Ontology for Space-time: What Theory(s), Logic(s), and Geometry(s)*

Do We Need?

17:45 – 18:30

Javier Legris	Markus Pantsar	Méven Cadet
(IIEP-BAIRES, UBA-CONICET, Argentina)	(University of Helsinki, Finland)	(Universite Paris 1, France)
Symbolic knowledge and the constitution of objects in Mathematical Practice.	*Metaphors and Mathematical concepts*	*The Logocentric Predicament: What about a Semantic Theory? A study of Frege's case*

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 étage)
Président :	Président :	Président :

11:30 – 12:15

James Tappenden	Gisele Secco	Roy Wagner
	(Universidade	(Tel Aviv

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

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12:15 –13:00

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

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

17:45 – 18:30

Emily Grosholz	Yaroslav D. Sergeyev	Karl-Heinz Schlote
(Penn State, USA)	(Università della Calabria, Italy)	(University of Hildesheim, Germany)
Report on ICSU Workshop on Cultures of Mathematical Research Training	*Methodological and philosophical aspects of a new approach allowing one to work with infinities and infinitesimals numerically*	*Carl Neumann's view on mathematical physics*

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 Président :	Salle 01 Président :	Salle 201 Président :
	11:30 – 12:15	
Joachim Frans and Bart Van Kerkhove (Vrije Universiteit Brussel, Belgium) *A contextual approach to the explanatory value of mathematical visualisations*	Luis Gastaldi (Paris Ouest Nanterre, France) *Boole's arithmetic of 0 and 1 : The mathematical conditions of logic*	Eduardo Giovannini (CONICET, Argentina) *Hilbert on Geometry, Continuity and Purity*
	12:15 –13:00	
Colin Jakob Rittberg (University of	Dirk Schlimm (McGill, Canada)	Elías Fuentes Guillén (USAL, Spain /

Hertfordshire, UK)	*Towards a cognitive and pragmatic account of notations for propositional logic*	UAEMex, Mexico)
Mathematical Pull		*"Bienvenue, Monsieur Brejnev". Weierstrass or the dilemma of revolutionaries*

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	Eric Vandendriessche	Kevin Kuhl
(University of Sevilla, Spain)	(Universite Paris Diderot, France)	(University of Toronto, Canada)
Practice and ideology behind Wigners	*String figures as mathematics?*	*Structuralism and (meta) mathematical disagreement*

15:45 – 16:30

Davide Rizza	Pietro Milici	Fenner Tanswell
(University of East Anglia, UK),	(University of Palermo, Italy)	(St Andrews, Scotland)
Mathematisation : An elementary analysis	*A finitist differential extension of Descarte's*	*Rigor, proof and mathematical*

balance betweenvirtues
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**