

**Fourth International Meeting
of the Association for the Philosophy of Mathematical Practice**

APMP

Federal University of Bahia / Salvador da Bahia, Brazil

October Monday 23rd – 27th 2017

Programme of the Conference

Monday October 23rd

13:00 – 15:00

Meeting of the APMP Steering Committee

15:00 – 18:00

Registration

18:30 – 19:00

Opening Ceremony

Room 1

Dirk SCHLIMM
President of APMP

Marco PANZA
Chair of the Scientific Committee

Abel LASSALLE CASANAVE
Chair of the Organizing Committee

João Carlos SALLES
President of the Federal University of Bahia

19:00 – 20:30

Opening Lecture

Dag PRAWITZ

The concept of Proof

Chair: Dirk Schlimm

Tuesday October 24th

08: 00 – 11: 00

Workshops

Room 1

Chair: Luiz Márcio Farias

Speakers: Gert SCHUBRING / Jorge MOLINA / Tinne HOFF KJELDSEN
Discussers: Marcelo AMADEO / Marco Aurelio OLIVEIRA / Carlos TOMEI

The impact of teaching mathematics on the development of mathematical practices

Room 2

Chair: Samuel Gomes

Speakers: Walter CARNIELLI / Abilio RODRIGUES / Marco RUFFINO
Discussers: Emiliano BOCCARDI / Guilherme CARDOSO / Henrique ANTUNES

Beyond Truth and Consistency in Mathematical Practice

14:00 – 17:00

Talks

Room 1

Chair: José Ferreirós

14:00 – 14:40:

María DE PAZ

The double origin of Poincaré conventionalism: methodological structuralism and hypothetical-deductive method

14: 45 – 15: 25:

Michael OTTE / Johannes LENHARD

The Applicability of Mathematics as a Philosophical Problem. Mathematization as Exploration

15: 30 – 16: 10:

Mikkel Willum JOHANSEN / Morten MISFELD

Material and social conditions for the development of mathematics

16:15 – 17:00:

Arezoo ISLAMI

Not in the Same River Twice: On the Applicability of Mathematics in Physics

Room 2

Chair: Alberto Naibo

14:00 – 14:40:

Tamires DAL MAGRO

On Euclidian diagrams and mathematical rigor

14: 45 – 15: 25:

Brandon LARVOR

From Euclidean Geometry to knots and nets: does Manders' account of Euclidean plane geometry offer a model for the analysis of contemporary mathematical proofs?

15: 30 – 16: 10:

Peter EPSTEIN

A Priori Concepts in Euclidean Proof

16:15 – 17:00:

John MUMMA

Carroll's infinite regress, mathematical understanding, and the act of diagramming

17:00 – 18:00

Coffee Break

18: 00 – 19: 30

Lecture

Carmen MARTÍNEZ ADAME

From counterexamples to examples, or when pathologies become the norm

Chair: Marco Panza

Wednesday October 25th

09: 00 – 11: 00

Round Table

Room 1

Oswaldo CHATEAUBRIAND / Elaine LANDRY / Marco PANZA

Platonism in mathematical practice

Chair: Frank Sautter

11:00 – 12:30

APMP General Assembly

14:00 – 17:00

Talks

Room 1

Chair: María de Paz

14: 00 – 14: 40:

Roy WAGNER

Proofs without foundations

14: 45 – 15: 25:

Irina STARIKOVA

Visual aspects of scientific models: the case of turbulence

15: 30 – 16: 10:

David WASZEK

Diagrams and formulas: On the contents of representations in mathematics

16:15 – 17:00:

Dirk SCHLIMM

The role of notations in practices of 19th century logic

Room 2

Chair: Eduardo Giovannini

14: 00 – 14: 40:

Jamie TAPPENDEN

Carl Snell 'My Revered Teacher': Education, Euclid and System in Frege and his Environment

14: 45 – 15: 25:

Philp EHRLICH

Are Points (Necessarily) Unextended?

15:30 – 16:10:

Alberto NAIBO

Logic and Proofs in Euclid's Geometry

16:15 – 17:00:

John BALDWIN

Euclidean Geometry: Categoricity and the Choice of Logic

17: 00 – 18: 00

Coffee Break

18: 00 - 19: 30

Lecture

Room 1

José FERREIRÓS

Reducing the Real Numbers: Has the Continuum been tamed?

Chair: Abel LASSALLE CASANAVE

Thursday October 26th

09: 00 – 11: 00

Round Table

Room 1

Luiz Carlos PEREIRA / Jessica CARTER / Max DICKMANN

Formal and informal proofs

Chair: Wagner Sanz

14:00 – 17:00

Talks

Room 1

Chair: Davide Crippa

14: 00 – 14: 40:

João CORTESE

From the comparison of ratios to the comparison of differences

14: 45 – 15: 25:

Jonhatan ETTTEL

Constructing the Cycloid

15: 30 – 16: 10:

Elías FUENTES GUILLÉN

The Germanic route from negative quantities to natural numbers

16:15 – 17:00:

Emmylou HAFFNER

What Dedekind's mathematical drafts tell us about the genesis of his lattice theory

Room 2

Chair: Marco Aurélio Oliveira

14:00 – 14:40:

Matteo PLEBANI

Nominalistic content behind the communication problem

14: 45 – 15: 25:

Pedro CARNÉ

Learning Mathematical Fictions

15:30 – 16:10:

Bruno R. MENDONÇA

Semantic information and the ampliative character of formal knowledge

16:15 – 17:00:

Bernd BULDT

Functional and Structural Abstraction. A contribution to concept formation in modern and contemporary mathematics

17:00 – 18:00

Coffee Break

18: 00 - 19: 30

Lecture

Room 1

Valeria GIARDINO

Manipulative imagination: How to move things around in mathematics

Chair: Gisele Secco

20:00 – 22:00

Conference Dinner

Friday October 27th

08: 00 – 11: 00

Workshops

Room 1

Chair: Jessica Carter

Speakers: Silvia DE TOFFOLI / Danielle MACBETH / Javier LEGRIS
Discussers: Gisele SECCO / Sandra VISOKOLSKIS / Frank SAUTTER

Varieties of visualization in Mathematics

Room 2

Chair: Olival Freire Jr.

Speakers: Davide CRIPPA / Vincent JULLIEN / Eduardo GIOVANNINI
Discussers: Jesper LUTZEN / Luiz Felipe MIRANDA / André PORTO

The theories of proportion from Euclid to Hilbert

14: 00 - 15: 30

Closing Lecture

Room 1

Erich H. RECK

Logical and Historical Philosophies of Mathematics

Chair: Waldomiro Silva Filho

17:00 – 19: 00

Meeting of the APMP Directive Committee