

Conference
'Visual Reasoning and Intuition in Mathematics. From
Kant's Euclidicity to Digitalization'
Freie Universität Berlin, Institut für Philosophie
June 29-July 1, 2017

Thursday 29/6

18:00 Pirmin Stekeler-Weithofer (Universität Leipzig): Geometrical Diagrams and Ideal Forms. Logical Syntax in the Constitution of Pure Intuition
Chair: Sybille Krämer

Reception

Friday 30/6

9:00 – 9:15 Welcome and Introduction

9:15 – 10:45 **Session 1**
Chair: Özge Ekin

Vincenzo De Risi (Universität Leipzig): A Geometry of Space. Diagrams in the Early Modern Euclidean Tradition and Kant

Martin Beck (Freie Universität Berlin): Diagrammatic Readings of Kant and the Exceptionality of Euclidean Geometry

10:45 – 11:15 Break

11:15 – 12:45 **Session 2**
Chair: Jan Wöpping

Brendan Larvor (University of Hertfordshire): What Hume Got Right About Mathematics

Ofra Rechter (Tel Aviv University): Why is there a Problem About an Axiomatic Presentation of Arithmetic in Kant?

12:45 – 14:15 Lunch Break

14:15 – 15:45 **Session 3**
Chair: Sybille Krämer

Marcus Giaquinto (University College London): A priori and A posteriori Thinking in Mathematics

Kenneth Manders (University of Pittsburgh): The Geometrical form of intelligibility

15:45 – 16:15 Break

16:15 – 17:45 **Session 4**

Chair: Valeria Giardino

Silvia De Toffoli (Stanford University/IHPST Paris): Knots and Embeddings. New Tools for Understanding Incongruent Counterparts

Konrad Polthier (Freie Universität Berlin): New Forms, New Materials, New Processes

Conference Dinner

Saturday 1/7

9:30 – 10:00 Coffee

10:00 – 11:30 **Session 5**

Chair: Sibylle Schmidt

Sybille Krämer (Freie Universität Berlin): A Praxeological Philosophy of Mathematics?

Valeria Giardino (Henri Poincaré Archives, Nancy): Cognitive Tools and Representational Affordances

11:30 – 12:00 Break

12:00 – 13:30 **Session 6**

Chair: Silvia De Toffoli

Ladislav Kvasz (Charles University, Prague): Visual Reasoning and Instrumental Practice in Mathematics

Benedikt Löwe (ILLC Amsterdam/Universität Hamburg): Studying the Practices of Representing Infinity

13:30 – 14:15 Lunch Break

14:15 – 15:45 **Session 7**

Chair: Martin Beck

Jan Wöpking (Freie Universität Berlin): A Great Black Sea of Nothingness – Wittgenstein, Coetzee and LeWitt on Mathematical Intuition

Özge Ekin (Freie Universität Berlin): How Digitalization of Proofs and Visual Imagery Change the Mathematical Practice

15:45 – 16:00 Closing remarks

Venue: Institut für Philosophie, Freie Universität Berlin, Habelschwerdter Allee 30, Souterrain

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Organizers: Sybille Krämer, Özge Ekin, Martin Beck, Solvej Hartmann