



IUSS

Scuola Universitaria Superiore Pavia

HUMATH (Humanizing Mathematical Knowledge)

Workshop: Philosophy of Mathematical Practice Meets Mathematics Education

Linguistics & Philosophy IUSS Center

27 November 2025 – 10:00-13:00

Sala Riunioni, Palazzo del Broletto

10:00-10:10: Welcome and introduction by **Silvia De Toffoli**

10:10-10:30: **Lorenzo Gandolfi** (IUSS Pavia)

The Philosophy of Mathematical Practice: the Case of Reductio Proof

10:30-10:50: **Annachiara Barone** (Università di Bolzano)

But you can see it, I can't explain why! Exploring the role of Semiotics in Argumentation and Proof in Mathematics Education

11:00- 11:20: **Laura Branchetti** (Università di Milano)

Representations and Their Role in Argumentation and Proof in Infinitesimal Calculus: a Didactical Perspective

11:20- 11:40: **Sara Gagliani Caputo** (Università di Milano)

Mathematical Reasoning as a Social Practice: the Case of Argumentation and Proof at Secondary School

12:00-13:00: **Round Table** with Annachiara Barone, Laura Branchetti, Sara Gagliani Caputo, Silvia De Toffoli, Lorenzo Gandolfi, Tommaso Peripoli.

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Organizers: Silvia De Toffoli and Andrea Sereni.



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