

Scuola Normale Superiore
Piazza dei Cavalieri 7
Pisa

17th- 19th June 2013

Sala Stemmi

Palazzo della Carovana

9:00 AM



SCUOLA
NORMALE
SUPERIORE

GEOMETRY AND LOGIC

The Shape of Mathematical Proof from Antiquity to the Early Modern Age

For information please contact

Centro di Ricerca Matematica

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Organizing Committee

VINCENZO DE RISI

MPIWG-Max Planck Institute
for the History of Science

MASSIMO MUGNAI

Scuola Normale Superiore

15
7
31
246
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Centro
di Ricerca
Matematica
Ennio De Giorgi

Matematica
nelle Scienze Naturali
e Sociali



MAX-PLANCK-GESELLSCHAFT



Max Planck
Institute for
the History
of Science



MONDAY, JUNE 17TH

- 9:00 **Registration**
- 9:30 – 11:00 **KEN SAITO** (Osaka University)
The diagrams of Euclid's Elements.
Plane geometry, arithmetic, irrational magnitudes and solid geometry
COFFEE BREAK
- 11:15 – 12:45 **HEIKE SEFRIN-WEIS** (University of South Carolina)
Figuring it out: The role of diagrams in Greek geometrical proofs
LUNCH
- 14:15 – 15:45 **MONICA UGAGLIA** (Università di Udine)
Divide et inveni: the role of geometrical practice in Aristotle's explanation of knowing
COFFEE BREAK
- 16:00 – 17:30 **ORNA HARARI** (Tel-Aviv University)
Euclid's Elements and the Principles of Demonstration in Late-antique Philosophy

TUESDAY, JUNE 18TH

- 9:30 – 11:00 **ROSHDI RASHED** (Université Paris VII)
Problèmes impossibles et problèmes indéterminés en analyse diophantienne classique
COFFEE BREAK
- 11:15 – 12:45 **SABINE ROMMEVAUX** (CNRS Paris)
La réduction syllogistique des livres I à VI des Elements d'Euclide par Dasypodius. Méthode et enjeux
LUNCH
- 14:15 – 15:45 **PAOLO FREGUGLIA** (Università dell'Aquila)
Marinus Ghetaldi between Clavius and Viète: Mathematics and 'methodus'
COFFEE BREAK
- 16:00 – 17:30 **MASSIMO MUGNAI** (Scuola Normale Superiore)
Leibniz's logical diagrams

WEDNESDAY, JUNE 19TH

- 9:30 – 11:00 **ALISON LAYWINE** (McGill University)
Kant and Conic Sections
COFFEE BREAK
- 11:15 – 12:45 **ANDREW ARANA** (University of Illinois)
Non-euclidean geometry and geometrical content
LUNCH
- 14:15 – 15:45 **VICTOR PAMBUCCIAN** (Arizona State University)
The birth of algebra and its consequences on the relations between geometry and logic
COFFEE BREAK
- 16:00 – 17:30 **CLAUDIO BARTOCCI** (Università di Genova)
"Solving the universe": Clifford's geometric algebras