

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

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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