

MATHEMATICAL KNOWLEDGE AND ITS APPLICATIONS

The Twenty-Fifth Annual International Workshop on the History and Philosophy of Science
In Honor of Mark Steiner
Monday-Wednesday, December 12-14, 2011 Tel-Aviv and Jerusalem

MONDAY

DECEMBER 12

TEL AVIV UNIVERSITY

Morning Session
10:00-13:00

Ian Hacking, Collège de France and
University of Toronto

The Lure of Pythagoras

Roy Wagner, The Hebrew University of
Jerusalem

**Mathematical Metaphors: A Historically
and Philosophically Informed Approach**

11:45-12:00 Coffee Break

Stewart Shapiro, Ohio State University
The Classical Continuum Without Points

13:00-14:00

Visit to the Exhibition:

*Transcending Tradition: Jewish
Mathematicians in German-Speaking
Academic Culture*

Beit Hatfutsot Museum, Tel Aviv University

14:00-15:00 Lunch Break

Afternoon Session
15:00-17:30

Margaret Morrison, University of Toronto
**Beyond Calculation: Extracting Physical
Information from Mathematical Methods**

Orly Shenker, The Hebrew University of
Jerusalem

**The Mathematical Representation of the
Arrow of Time**

Michael Katz, Haifa University

Approximation Logic for Quantum Theory

TUESDAY

DECEMBER 13

THE VAN LEER JERUSALEM
INSTITUTE

Morning Session
9:30-13:00

Curtis Franks, Notre Dame University

Sacred Inference

Meir Buzaglo, The Hebrew University of
Jerusalem

Symmetry and the Unity of God

11:45-12:00 Coffee Break

Ruth Glasner, The Hebrew University of
Jerusalem

**Sefer Meyasher Akov by Alfonso: An
Unusual Medieval Hebrew Mathematical
Text**

Stela Segev, Lifshitz College of Education
Jerusalem

**Pre-inductive Methods in Mizrachi's Book
of the Number**

13:00-14:00 Lunch Break

Afternoon Session
14:00-18:00

Paolo Mancosu, University of California,
Berkeley

**Axiomatics and Purity of Methods: On the
Relationship Between Plane and
Solid Geometry**

Sorin Bangu, University of Illinois
**Wynn's Experiments and Later
Wittgenstein's Philosophy of Mathematics**

Yemima Ben-Menahem, The Hebrew
University of Jerusalem

Symmetry and Causation

16:00-16:15 Coffee Break

Saul Kripke, Graduate Center, CUNY

**Wittgenstein, Logicism, and "Buck-
Stopping" Identifications of Numbers**

WEDNESDAY

DECEMBER 14

THE VAN LEER JERUSALEM
INSTITUTE

Morning Session
10:00-13:00

Shlomo Sternberg, Harvard University

**Category Theory at the Interstices:
Between Classical and Quantum Physics**

Leo Corry, Tel Aviv University
**Category Theory and Bourbaki: A Story of
Incompatibility**

11:45-12:00 Coffee Break

Carl Posy, The Hebrew University of
Jerusalem

Three Dogmas of Constructivism

13:00-14:00 Lunch Break

Afternoon Session
14:00-16:00

Symposium: **Beauty and Aesthetic
Considerations in Mathematics**

Ehud Hrushovski, The Hebrew University of
Jerusalem

Menachem Magidor, The Hebrew University
of Jerusalem

Philip Rosenau, Tel-Aviv University

Aner Shalev, The Hebrew University of
Jerusalem

Moderator: **Leo Corry**, Tel Aviv University

Concluding Remarks
16:00-16:30

Mark Steiner, The Hebrew University of
Jerusalem

Venues:

Tel Aviv University: Gilman Building, Hall 496, Tel. 03-6409198

The Van Leer Jerusalem Institute: 43 Jabotinsky St., Jerusalem, Tel. 02-5605222 (Parking is not available at the VLJI)

Admission is free