History of Mathematics at Tel Aviv University
A Workshop on the Occasion of the Joint Meeting
AMS – IMU, June 2014

The Second Joint International Meeting of the Israeli Mathematical Union (IMU) and the American Mathematical Society (AMS) will be held on June 16-19, 2014, at Bar Ilan and Tel-Aviv Universities.

As part of this meeting we have organized two sessions on history of mathematics with invited speakers from various countries. The two sessions will take place at TAU, on June 18-19. In addition we have organized a workshop on Tuesday, June 17, also at TAU. This workshop will have a somewhat more informal character, allowing for plenty of time for discussions.

Details on the workshop and the sessions appear below. Additional information on the AMS-IMU meeting, as well as abstracts for the talks, can be found at: . http://imu.org.il/Meetings/IMUAMS2014/index.html.

We cordially invite you to attend. We will be happy to see you.

Victor Katz (UDC), Michael Fried (BGU), Leo Corry (TAU)

A Workshop on History of Mathematics
Tuesday, June 17, 2014
Gilman Building, Room 449, Tel-Aviv University

Morning Session, 9:30 - 13:00

Chair: Leo Corry

9:30 – 10:00   Jean Christianidis (University of Athens):
Solving problems by algebra: the case of Diophantus

10:15 – 10:45   Jeff Oaks (University of Indianapolis):
Al-Khayyām's scientific revision of algebra

11:00 – 11:30   Coffee Break

11:30 – 12:00   Victor Katz (University of D.C.):
Recreational problems in medieval mathematics

12:15 – 12:45   Stela Segev (The Hebrew University):
Arguments and proofs in Elijah Mizrahi's "Book of Number"
(*Sixteenth century, Constantinople*)

13:00 – 14:30   Lunch Break

Afternoon Session, 14:30 - 18:00

Chair: Victor Katz

14:30 – 15:00   Luis Puig (University of Valencia):
Proofs and systems of signs in pre-symbolic algebra

15:15 – 15:45   Veronica Gavagna (University of Salerno):
Cardano's algebra

16:00 – 16:30   Coffee Break

16:30 – 17:00   Leo Corry (Tel-Aviv University):
Algebraic reasoning in the Renaissance versions of Book II of Euclid's Elements

17:15 – 17:45   Raya Leviatahn (Tel-Aviv University):
The history of the Weizac

Second Joint International Meeting
of the IMU and AMS, Tel-Aviv University
Special Sessions on History of Mathematics
Dan David Building, Room 209, Tel-Aviv University

Wednesday, June 18, 10:50 - 13:05 - Chair: Michael Fried

10:50 – 11:20   Jean Christianidis (University of Athens):
The historiography of Diophantus, reconsidered

11:25 – 11:55   Jeff Oaks (University of Indianapolis):
Polynomials and equations in Arabic algebra

12:00 – 12:30   Luis Puig (University of Valencia):
Proofs and systems of signs in pre-symbolic algebra

12:35 – 13:05   Veronica Gavagna (University of Salerno):
Euclid in the Renaissance: the reworking of Francesco Maurolico from an arithmetical viewpoint

Wednesday, June 18, 16:00 - 18:15 - Chair: Victor Katz

16:00 – 16:30   Tony Levy (CNRS, Paris):
The Medieval Hebrew mathematics culture (XIIth-XVIth centuries): A general assessment

16:35 – 17:05   Tzvi Langermann (Bar-Ilan University):
Pythagoreanism in the Medieval Jewish Tradition

17:10 – 17:40   Roy Wagner (Hebrew University):
Citrabhanu's Twenty-One Algebraic Problems in Malayalam and Sanskrit

17:45 – 18:15   Karine Chemla (CNRS and University of Paris Diderot):
Practices of abstraction in ancient China

Thursday, June 19, 9:20 - 11:35 - Chair: Leo Corry

9:20 – 9:50   Ido Yavetz (Tel-Aviv University):
Trigonometry, straight-edge and compass, and the applied mathematics of the Almagest

9:55 – 10:25   Jesper Lützen (University of Copenhagen):
Impossibility of the classical problems: algebraization equals mathematization

10:30 – 11:00   Tinne Kjeldsen (Roskilde University):
Whose History? Minkowski's development of geometry of numbers and the concept of convex sets

11:05 – 11:35   Michael Fried (Ben-Gurion University):
Otto Toeplitz's "The problem of university infinitesimal calculus courses and their demarcation from infinitesimal calculus in high schools" (1927)