

# Workshop: Homological Mirror Symmetry

June 10 – 12, 2015 at Hebrew University, Israel



European Research Council  
Established by the European Commission



האוניברסיטה העברית בירושלים  
The Hebrew University of Jerusalem

## Schedule

### Wednesday, June 10th

Lectures will take place at Eilat Hall (Feldman Building).

- 09:30-09:55 Registration (Eilat Hall)
- 10:00-11:00 Cedric Membrez (FC1)  
Definition of Fukaya category as example of  $A_\infty$  category.
- 11:15-12:15 Nick Sheridan (MC1)  
Introduction: The relative Fukaya category.
- 12:15-13:30 *Lunch.*
- 13:30-14:30 Netanel Blaier (AC1)  
Abstract  $A_\infty$  categories.
- 14:45-16:15 Nick Sheridan (MC1)  
The pair of pants.
- 16:15-16:45 *Coffee break.*
- 16:45-17:45 Uri Brezner (CS1)  
Derived categories and Beilinson's exceptional collection.
- 18:00-19:00 Amitai Zernik (AC2)  
Homological perturbation lemma for  $A_\infty$  categories.

### Thursday, June 11th

Lectures will take place at the Israel Institute for Advanced Studies.

- 08:00-09:00 *Breakfast.*
- 09:00-10:00 Netanel Blaier (AC3)  
Hochschild cohomology.
- 10:15-11:15 Nick Sheridan (MC3)  
Deformation theory.
- 11:15-11:45 *Coffee break.*
- 11:45-12:45 Lena Gal (MF1)  
Matrix factorizations and Dyckerhoff's method.
- 12:45-14:00 *Lunch.*
- 14:00-15:30 Cedric Membrez (FC2)  
Abouzaid's split generation.
- 15:45-16:45 Nick Sheridan (MC4)  
The B-model.
- 16:45-17:15 *Coffee break.*
- 17:15-18:00 Uri Brezner (CS2)  
Split generation via the restriction of Beilinson's exceptional collection.
- 18:30-07:59 *Social dinner.*

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**Friday, June 12th**

**Lectures will take place at Eilat Hall (Feldman Building).**

- 08:00-09:00 *Breakfast.*
- 09:00-10:00 Nick Sheridan (MC5)  
Automatic split-generation of the Fukaya category.
- 10:00-10:30 *Coffee break.*
- 10:30-11:30 Adam Gal (MF2)  
Ideas in the proof of Orlov's theorem.
- 11:45-12:45 Nick Sheridan (MC6)  
The Fano case.
- 13:00-14:00 *Lunch.*
- 14:00 *Departure — Shabbat Shalom!*

*The organizers are grateful for the hospitality of the Federmann Center for the Study of Rationality and the Israel Institute for Advanced Studies.*

