





The 21st Midrasha in Mathematicae Lie Theory without Groups: Enumerative Geometry and Quantization of Symplectic Resolutions

January 7 - January 12, 2018

General Director: Peter Sarnak

Organizers:

Andrei Okounkov (Columbia University)

David Kazhdan (The Hebrew University)

Roman Bezrukavnikov (Massachusetts Institute of Technology)

Scientific Program and Social Events

Sunday, January 7

09:00- 09:30	Registration & coffee (IIAS Lobby)
09:30 - 10:30	Roman Bezrukavnikov Canonical Bases and Geometry
11:00 - 12:00	Ivan Loseu Quantizations of Nakajima Varieties
12:00 - 14:00	Lunch (Belgium House)
14:00 - 15:00	Davesh Maulik Representation Theory and Enumerative Geometry
15:00- 15:30	Coffee break
15:30 - 16:30	Alexander Braverman Super-symmetric quantum field theories in 3d, the affine
	Grassmannian and symplectic duality

17:00 -19:00 Opening Reception

Monday, January 8

09:00- 09:30	Coffee (IIAS Lobby)
09:30 - 10:30	Davesh Maulik Representation Theory and Enumerative Geometry
10:30- 11:00	Coffee break
11:00 - 12:00	Ivan Loseu Quantizations of Nakajima Varieties
12:00 - 14:00	Lunch (Ha'lvrit)
14:00 - 15:00	Jake Solomon -holomorphic Curves with I-holomorphic Lagrangian Boundary Conditions
15:00- 15:30	Coffee break
15:30 - 16:30	Alexander Braverman Super- symmetric quantum field theories in 3d, the affine
	Grassmannian and symplectic duality

Tuesday, January 9

09:00 - 09:30 Coffee (IIAS Lobby)
09:30 - 10:30 **Ivan Loseu** Quantizations of Nakajima Varieties
10:30- 11:00 Coffee break

11:00 - 12:00	Davesh Maulik Representation Theory and Enumerative Geometry
12:00 - 14:00	Lunch (Ha'lvrit)
14:00 - 15:00	Jake Solomon J-holomorphic Curves with I-holomorphic Lagrangian Boundary Conditions
15:30-16:30	Alexander Goncharov Cluster polylogarithms and Zagier's conjecture on \zeta(4)

Wednesday, January 10

08:30 - 09:00	Gathering & coffee (IIAS Lobby)
09:00 - 10:00	Dennis Gaitsgory Metaplectic Whittaker category and quantum groups
10:00 - 10:30	Coffee break
10:30 - 11:30	Andrei Okounkov Representation Theory and Enumerative Geometry
12:00 - 13:00	Alexander Goncharov Cluster polylogarithms and Zagier's conjecture on \zeta(4)
13:00 - 14:00	Lunch (Belgium House)
14:30 -18:30	Tour to the Old City of Jerusalem

Thursday, January 11

08:30 - 09:00	Gathering & coffee (IIAS Lobby)
09:00 - 10:00	Andrei Okounkov Representation Theory and Enumerative Geometry
10:15 - 11:15	Roman Bezrukavnikov Canonical Bases and Geometry
11:30- 12:30	Anton Kapustin Branes and quantizations
12:45 - 14:15	Lunch (Belgium House)
14:30 - 16:30	Andrei Okounkov Catching monodromy, Colloquium at the Math Department
	(Mathematics Building, Lecture Hall #2)

Friday, January 12

08:30 - 09:00 Gathering & coffee (IIAS Lobby)09:00 - 10:00 **Roman Bezrukavnikov** Canonical Bases and Geometry

10:00- 10:30 Coffee break

10:30 - 11:30 **Andrei Okounkov** Representation Theory and Enumerative Geometry

11:30- 12:00 Coffee break

12:00 - 13:00 **Anton Kapustin** Branes and quantizations

13:00- 14:00 Light lunch at IIAS