

The Geometry of Topological D-branes, Categories and Applications:**Workshop on “Matrix factorizations”****May 13 - 16, 2013****Organized by: Sergey Gukov, Anton Kapustin, Ludmil Katzarkov and Yan Soibelman****• Monday, May 13, 2013****09:30 – 10:00:** Opening and Registration [Organizers/ESI]**10:00 – 11:00:** David Favero*Homological Projective Duality via Matrix Factorizations***11:00 – 11:30:** coffee break**11:30 – 12:30:** Matthew Ballard*Kernels for equivariant factorizations***12:30 – 14:00:** lunch break**14:00 – 15:00:** Lutz Hille*Rational Surfaces, Spherical Twists and the Auslander Algebra of $k[T]/T^t$* **15:15 – 16:15:** Henning Krause*Thick subcategories and noncrossing partitions for categories of matrix factorizations of finite type***16:30 – 17:30:** Igor Dolgachev*Unitary representations of triangle groups and matrix factorizations***• Tuesday, May 14, 2013****10:00 – 11:00:** Valery Lunts*Categorical Lefschetz fixed point theorem***11:00 – 11:30:** coffee break**11:30 – 12:30:** Shinobu Hosono*BPS numbers and projective geometry of Reye congruences***12:30 – 14:00:** lunch break**14:00 – 15:00:** Hans-Christian von Bothmer*TBA***15:15 – 16:15:** Nils Carqueville*Orbifold completion***16:30 – 17:30:** Will Donovan*Mixed braid groups, deformations, and derived categories*

- **Wednesday, May 15, 2013**

10:00 – 11:00: Nicolas Addington

Categories of massless D-branes and del Pezzo surfaces

11:00 – 11:30: coffee break

11:30 – 12:30: Olaf Schnürer

Matrix factorizations, semi-orthogonal decompositions and motivic measures

12:30 – 14:00: lunch break

14:00 – 15:00: Wendy Lowen

Hochschild cohomology with support and the Grothendieck construction

15:15 – 16:15: Ed Segal

TBA

- **Thursday, May 16, 2013**

10:00 – 11:00: Hokuto Uehara

Frobenius morphisms and derived categories on two dimensional toric Deligne-Mumford stacks

11:00 – 11:30: coffee break

11:30 – 12:30: Pawel Sosna

On autoequivalences of some Calabi-Yau and hyperkähler varieties

12:30 – 14:00: lunch break

14:00 – 15:00: Helmut Lenzing

Categories of matrix factorizations for triangle singularities

15:15 – 16:15: Johanna Knapp

New Calabi-Yaus from non-abelian 2D theories

Abstracts can be found on <http://www.mat.univie.ac.at/favero/Workshops/MFprogram.html>

All lectures take place in the ESI Boltzmann Lecture Hall