

Programme on
“Advances in Birational Geometry”
April 3 – May 26, 2017

organized by

**Fedor Bogomolov (Courant Institute, NYU), Jean-Louis Colliot-Thélène (U Paris-Sud),
Ludmil Katzarkov (U Vienna), Alexander Kuznetsov (Steklov Inst. Moscow), Alena Pirutka
(Courant Institute, NYU), Yuri Tschinkel (Courant Institute, NYU)**

Workshop 2

“Categorical approach to rationality”
May 2 – 5, 2017

• **Tuesday, May 2, 2017**

09:00 – 09:30 **Opening & Registration**

09:30 – 10:30 **Alexander Kuznetsov**

TBA

10:30 – 11:00 *coffee / tea break*

11:00 – 12:00 **Christian Boehning**

Unramified Brauer groups of fourfold conic bundles, degenerations, and Gushel-Mukai fourfolds, I

12:00 – 14:00 *lunch break*

14:00 – 15:00 **Alexei Igorewitsch Bondal**

TBA

• **Wednesday, May 3, 2017**

09:30 – 10:30 **Alexander Kuznetsov**

Birational geometry and derived category of Gushel-Mukai fourfolds

10:30 – 11:00 *coffee / tea break*

11:00 – 12:00 **Christian Boehning**

Unramified Brauer groups of fourfold conic bundles, degenerations, and Gushel-Mukai fourfolds, II

12:00 – 14:00 *lunch break*

14:00 – 15:00 **George Dimitrov**

Stabilities and Norms

- **Thursday, May 4, 2017**

09:30 – 10:30 **David Favero**

TBA

10:30 – 11:00 *coffee / tea break*

11:00 – 12:00 **Ed Segal**

Homological Projective Dualities

12:00 – 14:00 *lunch break*

14:00 – 15:00 **Andrew Harder**

Perverse sheaves of categories and noncommutative deformations

15:00– 15:30 *break*

15:30 – 16:30 **Sergey Galkin**

TBA

- **Friday, May 5, 2017**

09:30 – 10:30 **Alexander Elagin**

On exceptional collections of line bundles on weak del Pezzo surfaces

10:30 – 11:00 *coffee / tea break*

11:00 – 12:00 **Tamás Hausel**

Perverse Hirzebruch χ -genus of Hitchin systems

12:00 – 14:00 *lunch break*

14:00 – 15:00 **Jihun Park**

TBA

All talks take place at the ESI, Boltzmann Lecture Hall!