Monday, 15 April

9:00 – 9:50
Jean-Louis Colliot-Thélène
Title: Rationality problems, mostly over nonclosed fields
Abstract:
I shall survey various techniques used to detect the lack of stable rationality. Special attention will be given to cubic hypersurfaces.

10:10 – 11:00
Stefan Schreieder
Title: The rationality problem of hypersurfaces
Abstract:
TBA

11:20 – 12:10
Francesco Russo
Title: Explicit rationality of some cubic fourfolds
Abstract:
TBA

16:30 – 17:20
Ekaterina Amerik
Title: Contraction loci on hyperkaehler manifolds in families
Abstract:
This is a joint work with Misha Verbitsky. Let $X$ be an irreducible holomorphic symplectic manifold and $z$ a Beauville-Bogomolov negative $(1,1)$-class. Using the ergodicity of the monodromy action and a recent result on contractibility by Bakker and Lehn, we prove some deformation-invariance statements for the locus covered by rational curves of class proportional to $z$ in $X$. An explicit description of contraction loci on low-dimensional manifolds of $K3$ type comes as an application.

17:30 – 18:20
Daniel Huybrechts
Title: TBA
Abstract:
TBA