

## Seminars Algebraic Geometry (SAG):

### Summer 2005

- 21.04.2005 Manfred Lehn (U Mainz): *Singular symplectic moduli spaces*  
28.04.2005 Eckart Viehweg (U Essen): *Arakelov inequalities and the uniformization of certain rigid Shimura varieties*  
12.05.2005 Tom Bridgeland (U Sheffield, UK): *Stability conditions on derived categories*  
02.06.2005 Mihai Paun (IRMA Strasbourg): *Vortrag faellt aus!*  
23.06.2005 Baohua Fu (U Nantes): *Symplectic singularities and resolutions*  
30.06.2005 Michel Van den Bergh (Limburg): *Non-commutative resolutions of determinantal varieties*  
07.07.2005 Julius Ross (Columbia University New York): *Stability of Polarised Varieties*  
08.07.2005 Jean-Benoit Bost (Paris-Sud, Orsay): *Some remarks concerning positive vector bundles and algebraization of formal and analytic varieties*  
14.07.2005 Jan Schroerer (University of Leeds): *Algebras of constructible functions on nilpotent varieties*  
21.07.2005 Jaroslaw Wisniewski (z.Z. MPIM Bonn): *On phylogenetic trees - from a toric point of view*

### Winter 2005/2006

- 27.10.2005 Bert van Geemen (Milano): *Conic bundles on K3 surfaces*  
03.11.2005 Dmitry Orlov (Steklov Math Institute, Moscow): *Triangulated categories of singularities, derived categories of coherent sheaves and D-branes in LG-models*  
10.11.2005 Ivan Smith (Cambridge): *Conifold transitions*  
17.11.2005 Matei Toma (Koeln): *Foliations with rationally connected leaves*  
24.11.2005 Stefan Kebekus (Koeln): *Deformations of surjective morphisms, and a refinement of Stein factorization*  
08.12.2005 Stefan Schroerer (Duesseldorf): *Kummer surfaces in characteristic two*  
15.12.2005 Igor Burban (Mainz): *Fourier-Mukai transforms on degenerations of elliptic curves and genus one fibrations*  
12.01.2006 Alastair King (Bath): *Moduli of sheaves from moduli of Kronecker modules*  
19.01.2006 Annette Werner (Stuttgart): *Vector bundles on p-adic curves and parallel transport*  
26.01.2006 Bernd Siebert (Freiburg): *Maximal degenerations, tropical manifolds and mirror symmetry*  
09.02.2006 Szilard Szabo (MPIM): *Laplace transform and spectral curves*

### Summer 2006

- 13.04.2006 Martin Moeller (Essen): *Billiards, Teichmüller curves and triangle groups*  
27.04.2006 Michael Rapoport (Bonn): *Some questions about  $\mathcal{G}$ -bundles on algebraic curves*  
04.05.2006 Prof. Klaus Hulek (U Hannover): *Geometry and arithmetic of cubic fourfolds*  
09.05.2006 Mihnea Popa (Chicago): *GV sheaves, Fourier-Mukai, and generic vanishing theorems*  
01.06.2006 Dmitry Kaledin (z.Z. MPIM): *Non-commutative Cartier operator and Hodge-to-de Rham degeneration*  
22.06.2006 Piotr Pragacz (MPIM): *Diagonal subschemes and vector bundles*  
29.06.2006 Eyal Markman (University of Massachusetts, z.Z. MPIM): *Extension classes of integral monodromy submodules in the cohomology of the Hilbert schemes of n points on a K3*  
06.07.2006 Ludmil Katzarkov (Irvine): *Homological mirror symmetry and birational geometry*  
*Homological mirror symmetry and birational geometry*

## Winter 2006/2007

- 26.10.2006 Gavril Farkas (U Texas): *Koszul divisors on moduli spaces of curves*  
02.11.2006 Luca Scala (U Paris VII): *Strange Duality and Cohomology of Hilbert schemes of points on a surface*  
09.11.2006 So Okada (MPIM): *On stability manifolds of Calabi-Yau surfaces*  
16.11.2006 Stefan Schroerer (Duesseldorf): *Rational double points in quasifibrations*  
23.11.2006 Michel Brion (Grenoble): *Log homogeneous varieties*  
30.11.2006 Alessio Corti (Imperial College London): *Quantum cohomology of toric stacks and the crepant resolution conjecture*  
21.12.2006 Hubert Flenner (Bochum): *Hochschild cohomology for global spaces*  
18.01.2007 Dimitri Markouchevitch (U Lille, MPIM): *New symplectic V-manifolds of dimension 4 from compactified Prymians*  
25.01.2007 Georg Hein (U Essen): *Raynaud bundles on algebraic curves*  
08.02.2007 Zhang De-Qi (MPIM Bonn): *Infinite automorphism groups of algebraic varieties, and its dynamics*

## Summer 2007

- 05.04.2007 Anand Pillay (Leeds): *Model theory and Kaehler geometry*  
12.04.2007 Christian Liedtke (U Düsseldorf): *Surfaces of General Type on the Noether Line in Positive Characteristic*  
19.04.2007 M. Nieper-Wisskirchen (Mainz, z.Z. MPIM): *Equivariant cohomology, symmetric functions and the Hilbert scheme of points*  
23.04.2007 Daniel Huybrechts (Bonn): *Stability conditions for beginners; A short introduction to the Mini-Workshop 'Stability conditions, derived categories, etc.'*  
26.04.2007 Tom Bridgeland (U Sheffield): *Stability conditions and Stokes phenomena I; Mini-Workshop 'Stability conditions, derived categories, etc.' organized by D. Huybrechts*  
28.04.2007 Tom Bridgeland (U Sheffield): *Stability conditions and Stokes phenomena II; Mini-Workshop 'Stability conditions, derived categories, etc.'*  
28.04.2007 Yukinobu Toda (U Tokyo, z.Z. MPIM): *Moduli stacks and invariants of semistable objects on K3 surfaces; Mini-Workshop 'Stability conditions, derived categories, etc.'*  
28.04.2007 Sven Meinhardt (U Bonn): *Stability conditions on generic tori; Mini-Workshop 'Stability conditions, derived categories, etc.'*  
28.04.2007 So Okada (MPI Bonn): *Stable spherical objects of 2-Calabi-Yau categories; Mini-Workshop 'Stability conditions, derived categories, etc.'*  
28.04.2007 Emanuele Macri (MPIM): *Autoequivalences of K3 surfaces; Mini-Workshop 'Stability conditions, derived categories, etc.'*  
03.05.2007 Alexander Samokhin (MPIM): *A vanishing theorem in positive characteristic and tilting equivalences*  
10.05.2007 Duco van Straten (U Mainz): *The role of zeta(3) in Mirror Symmetry*  
21.06.2007 James McKernan (University of California, Santa Barbara): *The Sarkisov program grows up*  
05.07.2007 Brendan Hassett (Rice University): *Flops and ample cones of holomorphic symplectic fourfolds (joint with Tschinkel)*  
05.07.2007 Sean Keel (U Austin): *Tropicalisation and compactification*  
12.07.2007 Adrian Langer (z.Z. MPIM): *D-affinity and Frobenius morphism on quadrics*

## No lectures in Winter 2007/2008

### Summer 2008

- 10.04.2008 Manfred Lehn (Mainz): *McKay equivalence for symplectic resolutions of quotient singularities (after Bezrukavnikov-Kaledin)* - faellt aus.
- 17.04.2008 Richard Thomas (Imperial College, London): *Counting curves, stable pairs and BPS invariants*
- 08.05.2008 Claire Voisin (IHES): *Rationally connected 3-folds and symplectic geometry*
- 15.05.2008 Marian Aprodu (Bukarest; z.Z. MPIM): *Koszul cohomology and geometry of complex curves*
- 29.05.2008 Tom Bridgeland (U Sheffield, UK; z.Z. MPIM): *Stability conditions and hall algebras*
- 05.06.2008 Catharina Stroppel (U Bonn): *Braid group actions, tilting complexes and Khovanov homology*
- 12.06.2008 Alexei Bondal (Moskau; Aberdeen): *Derived categories of complex-analytic manifolds*
- 19.06.2008 Tamas Hausel (Oxford, UK): *Arithmetic harmonic analysis on symplectic quotients*
- 26.06.2008 Ana-Maria Castravet (U of Arizona; z.Z. MPIM): *Hypergraphic divisors, curves, and morphisms*
- 03.07.2008 Markus Reineke (Universität Wuppertal): *Poisson automorphismus and quiver moduli*

### Winter 2008/2009

- 23.10.2008 Andrei Mustata (z.Z. MPIM Bonn): *Blow-ups of local embeddings and Chow quotients*
- 30.10.2008 Martin Gulbrandsen (z.Z. MPIM Bonn): *Fourier-Mukai transforms of line bundles on derived equivalent abelian varieties*
- 13.11.2008 Luca Migliorini (Bologna): *A conjectural characterization of the weight filtration of the character variety of a Riemann surface*
- 20.11.2008 Valery Lunts (Indiana): *Categorical resolution of singularities*
- 27.11.2008 Albrecht Klemm (Bonn): *Enumerative Geometry on K3 Fibrations and Modular Forms*
- 04.12.2008 Stefan Müller-Stach (Mainz): *Some applications of Higgs bundles*
- 11.12.2008 Olivier Schiffmann (Jussieu, Paris): *Equivariant K-theory, nested Hilbert schemes and virtual classes*
- 18.12.2008 Ben Moonen (U Amsterdam): *Cycles on the Jacobian and on the symmetric powers of a curve*
- 08.01.2009 Yukinobu Toda (Oxford): *Curve counting theories via stable objects in the derived category*
- 15.01.2009 Paola Frediani (Pavia): *Second Gaussian map and curvature of the moduli space of curves*
- 22.01.2009 Ekaterina Amerik (Orsay, z.Z. MPIM): *Potential density of rational points on the variety of lines of a cubic fourfold*
- 29.01.2009 Ed Segal (Imperial College London): *B-branes in Landau-Ginzburg models*
- 05.02.2009 Dmitri Orlov (Moskau, z.Z. MPIM): *Dimensions and dimension spectrums of triangulated categories*

## Summer 2009

- 16.04.2009 Ulrich Derenthal (MSRI): *Geometry and arithmetic of cubic surfaces*  
23.04.2009 Jacopo Stoppa (MPIM): *The topological DT/PT wall-crossing*  
30.04.2009 Kota Yoshioka (Kobe, z.Z. MPIM): *Perverse coherent sheaves on surfaces*  
07.05.2009 Gabriele Vezzosi (Pisa): *Some ideas in derived geometry*  
14.05.2009 Andre Chatzistamatiou (Essen): *First coniveau notch of the Dwork family and its mirror*  
28.05.2009 Tomasz Szemberg (Krakau, MPIM, SFB TR45): *Restrictions on Seshadri constants on surfaces*  
25.06.2009 Bert van Geemen (Mailand): *Calabi-Yau varieties parametrised by Shimura varieties*  
02.07.2009 Paolo Stellari (Mailand, z.Z. MI): *Fano varieties of lines of cubic fourfolds containing a plane*  
09.07.2009 Thomas Bauer (Marburg): *Seshadri constants and generation of jets*  
16.07.2009 Chad Schoen (Duke University, z.Z. MPIM): *Curves on threefolds*

## Winter 2009/2010

- 15.10.2009 Jaroslaw Wlodarczyk (Purdue U, z.Z. MPIM): *Resolution algorithm in characteristic zero and its possible extension in positive characteristic*  
22.10.2009 Vladimir Lazic (MPIM): *Canonical models of varieties*  
29.10.2009 Valery Lunts (Indiana, z.Z. MPIM): *Uniqueness of enhancement for triangulated categories*  
05.11.2009 Hiraku Nakajima (Kyoto): *Hilbert schemes of points on surfaces and conjectural link homology groups*  
12.11.2009 Guenter Harder (Bonn): *(Modular) constructions of mixed (Tate)-motives I*  
19.11.2009 Guenter Harder (Bonn): *(Modular) constructions of mixed (Tate)-motives II*  
26.11.2009 Andreas Rosenschon (Uni München): *The Griffiths group of the generic abelian 3-fold*  
03.12.2009 Thomas Peternell (Bayreuth): *Stability, generic semi-positivity and applications*  
17.12.2009 Samuel Boissiere (Nice): *Automorphisms of irreducible holomorphic symplectic varieties*  
21.01.2010 Richard Thomas (London): *GW/stable pairs on K3 surfaces*  
28.01.2010 Daniel Murfet (Bonn): *Duality in the triangulated category of singularities*  
04.02.2010 David Ploog (Hannover): *Categorifying some Milnor lattices*

## Summer 2010

- 15.04.2010 Viacheslav V. Nikulin (Liverpool, z.Z. MPIM): *Self-correspondences of K3 surfaces via moduli of sheaves*  
29.04.2010 Eyal Markman (U Massachusetts): *Prime exceptional divisors on holomorphic symplectic varieties and monodromy reflections*  
06.05.2010 Francois Charles (ENS Paris): *Remarks on the Lefschetz standard conjecture for hyperkahler varieties*  
10.06.2010 Prakash Belkale (U North Carolina): *A generalization of Fulton's Conjecture for arbitrary groups*  
22.06.2010 Valery Lunts (Indiana, z.Z. MPIM): *Categorical resolutions and Du Bois singularities*  
24.06.2010 Davesh Maulik (MIT): *Quantum cohomology of framed sheaves*  
01.07.2010 Mark de Cataldo (Stony Brook, z.Zt MPIM): *Topology of Hitchin systems and Hodge theory of character varieties*  
08.07.2010 Radu Laza (Stony Brook): *The arithmetic and geometry of degenerations of K3 surfaces*

## Winter 2010/2011

- 21.10.2010 Michel Van den Bergh (Hasselt): *Tilting bundles for resolutions of determinantal varieties*
- 28.10.2010 Marti Lahoz Vilalta (Bonn): *The bicanonical map of varieties of maximal Albanese dimension*
- 04.11.2010 Daniel Huybrechts: *Spherical objects and Chow groups of K3 surfaces*
- 11.11.2010 Manuel Blickle (Mainz): *Introduction to singularities in positive characteristic*
- 18.11.2010 Asher Auel (Emory University, MPIM): *Rank four vector bundles on four-folds*
- 25.11.2010 Michael Le Barbier Grünewald (HCM): *Moduli space and universal family for connected subgroups of a complex algebraic group*
- 02.12.2010 Nicolas Addington (Imperial College, London): *Complete Intersections of Quadrics*
- 09.12.2010 Marcello Bernardara (Essen): *Derived categories and rationality of conic bundles*
- 16.12.2010 Luc Pirio (Rennes): *On projective varieties 3-covered by curves of degree  $d$*
- 20.01.2011 Nicolas Perrin (Bonn): *Quantum K-theory of some homogeneous spaces*
- 27.01.2011 Clelia Pech (Grenoble): *Quantum cohomologie of the odd symplectic Grassmannian of lines*
- 03.02.2011 Claire Voisin (Paris): *Abel-Jacobi map, integral Hodge classes and decomposition of the diagonal*

## Summer 2011

- 07.04.2011 Andreas Hoering (Jussieu, Freiburg): *Algebraic varieties with quasi-projective universal cover*
- 14.04.2011 Matthias Schütt (Hannover): *Shimura varieties for abelian fourfolds with an automorphism of order five*
- 21.04.2011 Sasha Kuznetsov (Steklov, Moscow): *Derived categories of Enriques surfaces and quartic double solids*
- 28.04.2011 Ugo Bruzzo (SISSA, z.Z. MPIM): *Uhlenbeck-Donaldson compactification for framed sheaves*
- 05.05.2011 Yongbin Ruan (University of Michigan, Ann Arbor, zZt MPIM): *Gromov-Witten theory of elliptic orbifold  $P^1$  and quasi-modular form*
- 12.05.2011 Max Lieblich (Washington): *Derived equivalence of K3 surfaces in characteristic  $p$*
- 19.05.2011 Chris Brav (Leibniz U Hannover): *Ping-pong and exceptional vector bundles*
- 26.05.2011 Paolo Stellari (Mailand): *Fourier–Mukai functors in geometric contexts*
- 09.06.2011 Cristina Manolache (HU Berlin): *Moduli of stable maps and stable quotients*
- 16.06.2011 Aaron Bertram (Utah): *Birational models of  $\text{Hilb}_n(P^2)$  as moduli of Bridgeland-stable objects*
- 01.07.2011 Kieran O’Grady (U Rom): *Moduli and periods of double EPW-sextics*
- 07.07.2011 Arend Bayer (Connecticut): *PT/DT-correspondence for orbifolds*
- 14.07.2011 Marc Levine (Essen): *The Grothendieck-Witt group and Voevodsky’s slice filtration*

## Winter 2011/2012

- 13.10.2011 Moritz Kerz (Essen/Regensburg): *p-adic deformation of cycle classes*  
27.10.2011 Francois Charles (Rennes, z.Z. Bonn): *Specialization of Néron-Severi groups of K3 surfaces*  
03.11.2011 Sam Payne (Yale, z.Z. MPIM): *Nonarchimedean analytification, tropicalization, and metrics on curves*  
10.11.2011 Alexander Ritter (Cambridge): *Floer theory for negative line bundles via Gromov-Witten invariants* - Joint with HIM Trimester seminar  
17.11.2011 Stephane Druel (Grenoble): *On Fano foliations*  
01.12.2011 Christophe Mourougane (Rennes): *Sections of families of hypersurfaces of large degree*  
08.12.2011 Carlos Simpson (Nice, CNRS): *The Painlevé VI moduli spaces*  
15.12.2011 Ben Moonen (Amsterdam): *Motivic decompositions of abelian schemes*  
19.01.2012 Ben Davison (Oxford): *Motivic DT invariants of (0,-2) curves*  
26.01.2012 Nigel Hitchin (Oxford): *Holomorphic Poisson manifolds and their deformations*

## Summer 2012

- 05.04.2012 Balazs Szendroi (Oxford, z.Z. Berlin): *Nekrasov's formula and refined sheaf counting*  
12.04.2012 Jonathan P. Pridham (Cambridge): *Semiregularity via derived algebraic geometry*  
19.04.2012 Helge Ruddat (Mainz): *The mirror dual of the cubic threefold*  
26.04.2012 Yuri Tschinkel (NYU, z.Z. Berlin): *On the arithmetic of Del Pezzo and K3 surfaces*  
03.05.2012 Daniel Greb (U Freiburg, z.Z. MI Bonn): *Singular spaces with trivial canonical class*  
24.05.2012 Alina Marian (Northeastern U): *On theta dualities for abelian surfaces*  
14.06.2012 Christian Liedtke (Bonn): *On the Birational Nature of Lifting*  
21.06.2012 Vladimir Lazić (Bayreuth): *On the Morrison-Kawamata cone conjecture*  
28.06.2012 Philippe Eyssidieux (Grenoble): *Holomorphic convexity of linear coverings of compact Kähler manifolds*  
05.07.2012 Dragos Oprea (z.Z. MPIM): *Virtual invariants of Quot schemes over curves and surfaces*  
12.07.2012 Paolo Cascini (Imperial College): *Bounding singularities on minimal models*

## No lectures in Winter 2012/2013

## Summer 2013

- 11.04.2013 Christoph Sorger (U Nantes, z.Z. MPIM): *Twisted cubics on cubic fourfolds*  
18.04.2013 Pawel Sosna (Hamburg): *Determinantal Barlow surfaces and phantom categories*  
25.04.2013 Markus Perling (z.Z. MPIM): *Some aspects of exceptional collections on (rational) surfaces*  
02.05.2013 Qizheng Yin (Amsterdam): *Cycles on Jacobians*  
16.05.2013 Adrian Clingher (U Missouri), z.Z. MPI: *A Special Isogeny of K3 Surfaces*  
06.06.2013 Charles Vial (Cambridge): *The Fourier decomposition on the Chow ring of certain hyperkaehler fourfolds*  
04.07.2013 Andreas Knutsen (U Bergen, Norwegen): *k-gonal loci in Severi varieties of curves on K3 surfaces*  
11.07.2013 Ludmil Katzarkov (U Wien, z.Z. MPIM): *Categories and Dynamical systems*

## Winter 2013/2014

- 17.10.2013 Claude Sabbah (Ecole Polytechnique, Paris): *Aspects of the irregular Hodge filtration*  
24.10.2013 Lie Fu (ENS Paris): *Symplectic automorphisms of Fano varieties of cubic fourfolds and its action on algebraic cycles*  
07.11.2013 Olivier Benoist (Strasbourg): *On the birational geometry of parameter spaces for complete intersections*  
14.11.2013 Alex Küronya (Budapest): *Functions on Newton-Okounkov bodies*  
21.11.2013 Erwan Rousseau (Marseille): *Foliations and the Green-Griffiths-Lang conjecture*  
28.11.2013 Jochen Heinloth (Duisburg-Essen): *GIT-like stability criteria on algebraic stacks*  
10.12.2013 Tobias Dorsch (Bonn): *Global Deformation of Fano Threefolds of Picard Number 1*  
12.12.2013 Ivan Cheltsov (Edinburgh): *Title Cylinders in Fano varieties*

## Summer 2014

- 17.04.2014 Cinzia Casagrande (Torino, z.Z. MPIM): *Locally unsplit families of rational curves on Fano manifolds*  
24.04.2014 Shinnosuke Okawa (Osaka, z.Z. MPIM): *Compact moduli of noncommutative algebraic varieties via quivers*  
15.05.2014 Roman Fedorov (Kansas State University), z.Z. MPIM: *Partial Fourier-Mukai transform for algebraically integrable systems*  
22.05.2014 Jason Lo (Missouri, z.Z. MPIM): *Fourier-Mukai transforms on elliptic fibrations*  
27.05.2014 Ana-Maria Castravet (Ohio State U): *Birational geometry of moduli spaces of stable rational curves*  
05.06.2014 Jason Starr (Stony Brook): *Rational curves, rational points and fixed points*  
26.06.2014 Junyan Cao (Grenoble): *An analytic approach to the study of Itaka's  $C_{m,n}^+$  conjecture* Cancelled  
10.07.2014 Thomas Reichelt (MPIM): *Hodge theory of GKZ-systems and mirror symmetry*  
17.07.2014 Marian Aprodu (Bucharest, z.Z. MPIM): *Secant space and syzygies of special line bundles on curves*

## Winter 2014/2015

- 23.10.2014 Joergen Rennemo (Imperial College): *The homological projective dual of  $\text{Sym}^2(P^n)$*   
30.10.2014 Junyan Cao (Paris): *Positivity of direct image and Kodaira dimension*  
06.11.2014 John Christian Ottem (Cambridge): *Hypersurfaces in products of projective spaces*  
13.11.2014 Ulrike Riess (Bonn): *On Beauville's conjectural weak splitting property*  
20.11.2014 Enrica Floris (Imperial College): *Invariance of Plurigenera for foliations on surfaces*  
11.12.2014 Luca Tasin (MPIM): *Fano varieties in Mori fibre spaces*  
08.01.2015 Sebastien Boucksom (CNRS/Ecole Polytechnique Paris): *A non-Archimedean approach to  $K$ -stability*  
15.01.2015 Benjamin Bakker (HU Berlin): *Bounding torsion in geometric families of abelian varieties*  
22.01.2015 Stefan Schreieder (Bonn): *Is every K3 surface dominated by a product of curves?* Cancelled

## Summer 2015

- 09.04.2015 Giulio Codogni (Rome): *Non-reductive automorphism groups, the Loewy filtration and K-stability*
- 16.04.2015 Alice Garbagnati (Milan): *Mori Dream Spaces which are extremal contractions of K3 surfaces*
- 23.04.2015 Patrik Graf (Bayreuth): *The jumping coefficients of non- $\mathbb{Q}$ -Gorenstein multiplier ideals*
- 30.04.2015 Tahehiko Yasuda (Osaka, z.Z. MPIM): *The McKay correspondence over a local field: a new geometric proof of mass formulae by Serre, Bhargava and Kedlaya*
- 07.05.2015 Mikhail Zaidenberg (Institut Fourier Grenoble, z.Z. MPIM): *Conguration Spaces, Discriminant Varieties, and their Automorphism Groups*
- 11.06.2015 Gavril Farkas (HU Berlin): *The universal abelian variety of dimension five and the geometry of  $A_6$*
- 18.06.2015 Paolo Cascini (London): *tba cancelled*
- 25.06.2015 Ben Moonen (Nijmegen): *On the Tate and Mumford-Tate conjectures for varieties with  $h$  hoch  $2, \theta = 1$*

## Winter 2015/2016

- 29.10.2015 Maksym Fedorchuk (Boston): *GIT semistability of Hilbert points of Milnor algebras*
- 05.11.2015 Roland Abuaf (Imperial): *Compact Hyper-Kähler category ?*
- 12.11.2015 Behrouz Taji (Freiburg): *The Miyaoka-Yau inequality for minimal models of general type and the uniformization by the ball*
- 19.11.2015 Laurentiu Maxim (Madison, z.Z. MPI): *Equivariant invariants of external and symmetric products of quasi-projective varieties*
- 26.11.2015 Aleksey Zinger (Stony Brook, z.Z. MPI): *Enumerative geometry of curves: old and new*
- 14.01.2016 Enrico Arbarello (Rome): *Brill-Noether-Petri curves on K3 surfaces*
- 21.01.2016 Lenny Taelman (Amsterdam): *Complex multiplication and K3 surfaces over finite fields*
- 02.02.2016 Valentino Tosatti (Northwestern): *Nakamaye's theorem on complex manifolds*

## Summer 2016

- 28.04.2016 De-Qi Zhang (National University of Singapore, z.Z. MPI): *Effectivity of Iitaka fibrations and pluricanonical systems of polarized pairs*
- 12.05.2016 Ariyan Javanpeykar (Mainz): *Lang-Vojta conjecture and smooth hypersurfaces over number fields*
- 16.06.2016 Zhi Jiang (Paris): *Irregular varieties with geometric genus one*
- 23.06.2016 Burt Totaro (U of California, Los Angeles): *The integral cohomology of the Hilbert scheme of two points*
- 30.06.2016 Gregory Pearlstein (Texas AM University): *Singular metrics and the Hodge conjecture*
- 21.07.2016 Sandor Kovacs (Seattle): *On the boundedness of slc surfaces of general type*

## Winter 2016/2017

- 20.10.2016 David Holmes (Leiden): *A Néron model of the universal*
- 27.10.2016 Zsolt Patakfalvi (Lausanne): *Projectivity of the moduli space of KSBA stable pairs and applications*



17.11.2016 Tony Yue Yu (Paris 7): *Counting open curves via Berkovich geometry*  
 24.11.2016 Xuanyu Pan (z.Z. MPIM): *Fano Manifolds, Rational connectedness and cycles*  
 01.12.2016 Paolo Cascini (Imperial): *Singularities in characteristic two*  
 15.12.2016 Stephane Druel (Grenoble): *Singular spaces with trivial canonical class*  
 19.01.2017 Olivier Benoist (Strasbourg): *On the integral Hodge conjecture for real threefolds*  
 26.01.2017 Radu Laza (Stony Brook/Paris): *Some remarks on degenerations of Hyper-Kaehler Manifolds*  
 02.02.2017 Serge Cantat (Rennes): *Simple automorphisms of complex projective varieties*

## No Lectures in Summer 2017

## Winter 2017/2018

12.10.2017 Alexander Polishchuk (Oregon): *Associative Yang-Baxter equation and related 1-CY categories*  
 19.10.2017 Johannes Nicaise (Imperial College London): *Specialization of (stable) rationality in families with mild singularities*  
 02.11.2017 Arne Smeets (Nijmegen/MPI): *Some geometric properties of log smooth degenerations*  
 16.11.2017 Georg Oberdieck (MIT): *Hyper-Kaehler varieties and Jacobi forms*  
 23.11.2017 Vladimir Guletskii (Liverpool): *Motivic obstruction to rationality of a very general cubic hypersurface in  $P^5$*   
 30.11.2017 Shen Junliang (ETH Zürich):  *$K3$  categories, cubic 4-folds, and Beauville-Voisin conjecture*  
 07.12.2017 Gebhard Martin (TU München): *Numerically trivial automorphisms of Enriques surfaces in positive characteristic*  
 14.12.2017 Mark Gross (Cambridge): *Logarithmic and punctured Gromov-Witten invariants*  
 21.12.2017 Ben Moonen (Nijmegen): *The Tate conjecture and semisimplicity of Galois representation*  
 11.01.2018 Evgeny Shinder (Sheffield): *Variation of stable birational types*  
 18.01.2018 John Ottem (Oslo): *The birational Torelli problem for Calabi-Yau 3-folds*  
 25.01.2018 Frances Kirwan (Oxford): *Moduli spaces of unstable objects*  
 01.02.2018 Anthony Várilly-Alvarado (Rice U): *Vojta's conjecture and uniform boundedness of full-level structures on abelian varieties over number fields*

## Summer 2018

19.04.2018 Chenyang Xu (Peking/Paris/MIT): *Volume and stability of singularities*  
 17.05.2018 Sergey Gorchinskiy (Steklov Mathematical Institute of RAS, NRU HSE): *Categorical measures for varieties with finite group actions*  
 07.06.2018 Christian Pauly (Nice): *The Prym-Hitchin connection and strange Prym duality at level 1*  
 14.06.2018 Richard Thomas (Imperial London): *Refined Vafa-Witten invariants for projective surfaces*  
 21.06.2018 Pieter Belmans (MPI): *Derived categories of moduli of vector bundles on curves*  
 04.07.2018 Mihnea Popa (Northwestern U):  *$D$ -modules in birational geometry*  
 12.07.2018 Flippo Viviani (Rome): *On the cone of effective cycles on the symmetric products of curves*

## Winter 2018/2019

- 11.10.2018 Roberto Svaldi (Cambridge): *On the boundedness of Calabi-Yau varieties in low dimension*
- 18.10.2018 Emanuele Macri (Northeastern): *Strong Bogomolov inequalities for sheaves on threefolds*
- 08.11.2018 Robert Laterveer (Strasbourg): *Algebraic cycles and Verra fourfolds*
- 15.11.2018 Gavril Farkas (HU Berlin): *Topological invariants of groups via Koszul*
- 29.11.2018 Chunyi Li (Warwick): *Stronger Bogomolov-Gieseker type Inequality and stability condition*
- 06.12.2018 Martijn Kool (Utrecht): *Zero-dimensional Donaldson-Thomas invariants of Calabi-Yau fourfolds*
- 13.12.2018 Sjoerd Beentjes (Edinburgh): *The crepant resolution conjecture for Donaldson-Thomas invariants*
- 20.12.2018 Johannes Schmitt (Zürich): *Zero cycles on moduli spaces of curves*
- 17.01.2019 Victoria Hoskins (FU-Berlin): *A formula for the motive of the moduli stack of vector bundles on a curve*
- 24.01.2019 Daniel Halpern-Leistner (Cornell): *Beyond geometric invariant theory*
- 31.01.2019 Chiara Camere (Milano, zZt MPI): *Moduli spaces of cubic threefolds and of irreducible holomorphic symplectic manifolds*

## Summer 2019

- 02.04.2019 Shigeyuki Kondo (Nagoya): *Enriques surfaces and the Leech lattice (after Brandhorst and Shimada)*
- 11.04.2019 Hannah Markwig (Tübingen): *Tropical mirror symmetry for elliptic curves and beyond*
- 25.04.2019 Charles Vial (Bielefeld): *Distinguished cycles on hyperKähler varieties*
- 02.05.2019 Sheng Meng (MPI Bonn): *On surjective endomorphisms of Calabi-Yau varieties*
- 09.05.2019 Nikolaos Tziolas (zZt MPI): *Vector fields and moduli of canonically polarized surfaces in positive characteristic*
- 06.06.2019 Dhruv Ranganathan (Cambridge UK): *Gromov-Witten theory with expansions*
- 27.06.2019 Michel Brion (Grenoble): *The universal affine extension of an abelian variety*
- 04.07.2019 Andrei Negut (MIT): *The Beauville-Voisin conjecture for  $\text{Hilb}(K3)$  and the Virasoro algebra*

## Winter 2019/2020

- 17.10.2019 Martin Ulirsch (Frankfurt): *Tropical and logarithmic strata of abelian differentials*
- 24.10.2019 Zhiwei Zheng (MPI): *Automorphisms and Periods of Cubic Fourfolds*
- 07.11.2019 Frank Gounelas (TU München): *Curves on  $K3$  surfaces*
- 14.11.2019 Ádám Gyenge (University of Oxford): *Equivariant Hilbert scheme of points on  $K3$  surfaces and modular forms*
- 21.11.2019 Benjamin Schmidt (Hannover): *Derived Categories and the Genus of Curves*
- 05.12.2019 Mingmin Shen (Amsterdam U): *Some new counter-examples to the integral Hodge conjecture*
- 12.12.2019 Enrica Mazzon (MPIM Bonn): *Berkovich approach to degenerations of hyper-Kähler varieties*
- 19.12.2019 Dan Petersen (Stockholm U): *Factorization statistics and bug-eyed configuration spaces*
- 09.01.2020 Reinier Kramer (z.Z. MPI): *The tautological ring of the moduli space of smooth curves*

*via Pandharipande-Pixton-Zvonkine half-spin relations*

16.01.2020 Adrien Sauvaget (Utrecht): *Volumes of moduli spaces of flat surfaces*

### Summer 2020

09.04.2020 Mirko Mauri (MPI): *PI=WI conjecture for character varieties with symplectic resolution*

16.04.2020 Johannes Schmitt (Bonn): *The double ramification cycle on the universal Picard stack*

24.04.2020 Phil Engel (University of Georgia): *Compactification of K3 moduli*

07.05.2020 Roberto Svaldi (Lausanne): *Mori Theory and foliations*

14.05.2020 Tudor Padurariu (MIT): *K-theoretic Hall algebras for quivers with potential*

28.05.2020 Sjoerd Beentjes (Universität Bonn): *Purity and CY2 categories*

18.06.2020 Feng Hao (KU Leuven): *Minimal models of dimension  $n$  with trivial  $cn21c2$ .*

25.06.2020 Junliang Shen (MIT): *Higgs bundles, vanishing cycles, and endoscopic decompositions*

### Winter 2020/2021

04.11.2020 Chen Jiang (Shanghai Center for Mathematical Sciences (SCMS); Fudan University): *Positivity in hyperkähler manifolds via Rozansky–Witten theory*

03.12.2020 Emre Sertoz (z.Z. MPIM Bonn): *Separating periods of quartic surfaces*

21.01.2021 Genki Ouchi (Nagoya University; iTHEMS): *Derived categories of K3 surfaces, abelian surfaces and symplectic resolutions*

### Summer 2021

08.04.2021 Jieao Song (U Paris): *Divisors in the moduli space of Debarre–Voisin varieties*

### Winter 2021/2022

28.10.2021 Gebhard Martin (Bonn): *Quotient singularities in positive characteristic*

04.11.2021 Thorsten Beckmann (Bonn): *Atomic objects on hyper-Kähler manifolds*

11.11.2021 Evgeny Shinder: *Motivic invariants of birational maps*

18.11.2021 Kuan-Wen Lai (Bonn): *Bijective Cremona transformations of the plane*

25.11.2021 Christian Schnell (z.Z. MPI Bonn): *A new look at degenerating variations of Hodge structure*

02.12.2021 Denis Nesterov (Bonn): *Quasimaps to moduli spaces of sheaves*

20.01.2022 Nikolas Kuhn (MPI): *Blowup formulas for virtual sheaf-theoretic invariants of surfaces*

27.01.2022 Andres Rojas (Bonn): *Prym semicanonical pencils and some enumerative properties of cubic threefolds*

10.03.2022 Eyal Markman (UMass): *Rational Hodge isometries of hyper-Kähler varieties of K3[n]-type are algebraic*

### Summer 2022

05.05.2022 Siddharth Mathur (Paris-Saclay): *Searching for the impossible Azumaya algebra*

19.05.2022 Okke van Garderen (MPIM): *Vanishing and symmetries of BPS invariants for  $cDV$  singularities*

15.06.2022 Woonam Lim (ETH Zürich): *Virasoro constraints for moduli of sheaves*

23.06.2022 Fabio Bernasconi (EPFL): *Lifting globally  $F$ -split surfaces to characteristic 0*  
 23.06.2022 Tudor Padurariu (Columbia University): *Donaldson-Thomas theory of  $C^3$  via matrix factorizations*  
 30.06.2022 Charles Vial (Bielefeld): *On the algebraicity of de Rham-Betti classes for products of elliptic curves*  
 07.07.2022 Andreas Krug (Hannover): *Compactified Jacobians of non-integral curves and Lagrangian fibrations*  
 18.07.2022 Luigi Lombardi (Milano): *Derived invariants of varieties with non trivial Albanese variety*  
 20.10.2022 Francois Charles (ENS Paris): *Geometry of numbers and fundamental groups of arithmetic schemes*  
 27.10.2022 Ruijie Yang (MPIM): *Higher multiplier ideals*  
 10.11.2022 Giacomo Mezzedimi (Bonn): *On  $K3$  surfaces with infinite automorphism group*  
 17.11.2022 Andrea Ricolfi (Sissa Trieste): *Quot schemes and their  $d$ -critical structure(s)*  
 24.11.2022 Charles Vial (U Bielefeld): *On proper splinters in positive characteristic*  
 24.11.2022 Kilian Bönisch (Universität Bonn): *Calabi-Yau motives and differential equations -Part I-*  
 01.12.2022 Richard Thomas (Imperial College London): *Counting sheaves by counting curves*  
 01.12.2022 Kilian Bönisch (Universität Bonn): *Calabi-Yau motives and differential equations -Part II-*  
 08.12.2022 Johannes Nicaise (TU Munich/Imperial College London/Leuven): *Birational invariance of the motivic zeta function for  $K$ -trivial varieties*  
 15.12.2022 Shizhuo Zhang (MPI): *Categorical Torelli theorem for Fano varieties*  
 19.01.2023 Ziquan Yang (UW Madison): *The Tate Conjecture over Finite Fields for Varieties with  $h^{\{2,0\}} = 1$*   
 26.01.2023 Tobias Kreuz (MPI): *Motivic and arithmetic aspects of exceptional loci*  
 02.02.2023 Naoki Koseki (Liverpool): *A Thurston compactification of the space of Bridgeland stability conditions*

### Summer 2023

13.04.2023 Nicolas Addington (Oregon/MPI): *Hermitian-Einstein connections on universal bundles*  
 20.04.2023 Frank Gounelas (Göttingen): *The geometry of lines on a cubic fourfold*  
 27.04.2023 Raymond Cheng (Hannover):  *$q$ -bic Hypersurfaces*  
 04.05.2023 Justin Sawon (North Carolina/MPI): *Lagrangian fibrations in six dimensions*  
 11.05.2023 Nebojsa Pavic (Hannover): *Derived categories of singular varieties*  
 25.05.2023 Ignacio Barros (Antwerpen): *The Kodaira classification of the moduli of hyperelliptic curves*  
 29.06.2023 Pieter Belmans (Luxembourg): *Deformations and derived categories of quiver moduli*  
 06.07.2023 Davide Veniani (Stuttgart): *Symplectic rigidity of O'Grady's manifolds*  
 13.07.2023 Manfred Lehn (Mainz): *Examples of Lagrangian fibrations with many singular fibres*