

DMITRII PIROZHKOV

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PERSONAL INFORMATION

I am a postdoc in ERC Synergy Grant HyperK, working in Université de Paris. I am interested in algebraic geometry and homological algebra, and I mostly work with derived categories of coherent sheaves on algebraic varieties.

EDUCATION

DEGREE	PhD in Mathematics	
UNIVERSITY	Columbia University	
PERIOD	September 2015 — May 2020	
THESIS	Admissible subcategories of del Pezzo surfaces	
ADVISOR	Johan de Jong	
		New York, USA
DEGREE	Masters in Mathematics	
UNIVERSITY	National Research University «Higher School of Economics»	
AWARDED	June 2019	
DEGREE PAPER	Semiorthogonal decompositions on total spaces of tautological bundles	
ADVISOR	Alexander Kuznetsov	
		Moscow, Russia
DEGREE	Bachelor in Mathematics	
UNIVERSITY	National Research University «Higher School of Economics»	
AWARDED	June 2015	
DEGREE PAPER	Morphisms with Linear Fibers and Derived Categories	
ADVISOR	Alexander Kuznetsov	
		Moscow, Russia

RESEARCH

PREPRINT	Semiorthogonal decompositions on total spaces of tautological bundles	
DATE	4 Jul 2018	
ARXIV	https://arxiv.org/abs/1807.01802	
SUBMITTED	to IMRN	
PREPRINT	Rouquier dimension of some blow-ups	
DATE	22 Aug 2019	
ARXIV	https://arxiv.org/abs/1908.08283	

TEACHING

CLASS	College Algebra (UN1003) in Fall 2018	
UNIVERSITY	Columbia University	
CLASS	Calculus I (UN1101) in Spring 2019	
UNIVERSITY	Columbia University	

TALKS

- “Semiorthogonal decompositions of \mathbb{P}^2 and torsion objects”, MIT, Geometric Representation Theory seminar (October 16 2019)
- “Semiorthogonal decompositions for projective plane”, UGA, Algebraic Geometry Seminar (November 20 2019)
- “Semiorthogonal decompositions for projective plane”, UCLA, Algebra seminar (November 22 2019)
- “Semiorthogonal decompositions for projective plane”, UC Berkeley, Arithmetic Geometry seminar (November 25 2019)
- “Semiorthogonal decompositions for projective plane”, University of Washington, Algebraic Geometry seminar (November 26 2019)
- “Admissible subcategories in del Pezzo surfaces”, Steklov Institute, Shafarevich seminar (September 05 2020)
- “Admissible subcategories of \mathbb{P}^2 ”, in FRG Workshop on Moduli Spaces and Stability (December 08 2020)
- “Stably semiorthogonally indecomposable varieties”, IMJ-PRG, Séminaire de géométrie algébrique de Jussieu (February 04 2021)
- “Stably semiorthogonally indecomposable varieties”, online, Derived Seminar (May 25 2021)
- “Admissible subcategories of del Pezzo surfaces”, in Primorie Mathematical Fair (July 24 2021)
- “Stably semiorthogonally indecomposable varieties”, in Algebra and Geometry (July 30 2021)

GRANTS AND PROJECTS

GRANT	RSCF grant 14-21-00053 within AG Laboratory NRU-HSE in 2014 “Algebraic geometry of symplectic manifolds”
STATUS	Participant
PROJECT	Academic Fund Program grant 15-05-0033 at NRU-HSE in 2015 “Geometric structures on complex manifolds”
STATUS	Participant

SUMMER SCHOOLS AND CONFERENCES

Period	May 1 2014 — May 10 2014
School	XIII International School on Theoretical and Mathematical Physics
With a talk	Moduli space of stable 2-bundles on \mathbb{P}^2 Dubna, Russia
Period	May 12 2014 — May 23 2014
School	Classical and p -adic Hodge Theory

	Rennes, France
Period	January 5 2015 — January 15 2015
School	Hyperbolicity in algebraic geometry Ilhabela, Sao Paulo, Brazil
School	Advanced School and Workshop on Moduli Spaces, Mirror Symmetry and Enumerative Geometry
Period	1 Jul 2016 — 19 Jul 2016 ICTP, Trieste, Italy
School	Positivity in Arithmetic and Geometry
Period	29 May 2017 — 2 Jun 2017 Orsay, Paris, France
School	Arizona Winter School 2017: Perfectoid Spaces
Period	Mar 11 2017 — Mar 15 2017 Tucson, Arizona, United States

WORK EXPERIENCE

POSITION	Junior researcher in AG Laboratory NRU-HSE
PERIOD	2014