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DMITRII PIROZHKOV

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PERSONAL INFORMATION

I am a postdoc in Steklov International Mathematical Center, part of Steklov Institute in Moscow. I am interested in algebraic geometry and homological algebra, and I mostly work with derived categories of coherent sheaves on algebraic varieties.

EDUCATION

Degree University Period Thesis Advisor	PhD in Mathematics Columbia University September 2015 — May 2020 Admissible subcategories of del Pezzo surfaces Johan de Jong
DEGREE	Masters in Mathematics
UNIVERSITY	National Research University «Higher School of Economics»
	June 2010
	Somiarthagonal docompositions on total spaces of tautological hundles
DEGREE PAPER	Alexander Kuznetsou
ADVISOR	Alexanuel Kuzhelsov
_	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

- 1. Semiorthogonal decompositions on total spaces of tautological bundles, published in Int. Math. Res. Not. (IMRN), 3 (2022), pp. 2250–2273, ISSN: 1073-7928, DOI: 10.1093/imrn/rnaa134.
- 2. Rouquier dimension of some blow-ups (2019), arXiv preprint 1908.08283, https://arxiv. org/abs/1908.08283.
- 3. Admissible subcategories of del Pezzo surfaces (2020), arXiv preprint 2006.07643, https://arxiv.org/abs/2006.07643.
- 4. Stably semiorthogonally indecomposable varieties, published in Épijournal de Géométrie Algébrique, 7 (2023), article no. 11; https://arxiv.org/abs/2011.12743.
- 5. Categorical Torelli theorems for hypersurfaces (2022), arXiv preprint 2208.13604, https://arxiv.org/abs/2208.13604.

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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)
- "Refined derived Torelli theorem for hypersurfaces", *IMJ-PRG*, Séminaire de géométrie algébrique (June 02 2022)
- "Categorical Torelli theorem for hypersurfaces", in Complex geometry in Byurakan (June 09 2022)

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- "Admissible subcategories of del Pezzo surfaces", *HSE*, Seminar of Laboratory of Algebraic Geometry (September 16 2022)
- "Categorical Torelli theorem for hypersurfaces", *MIPT*, Geometry, topology, and representation theory (December 30 2022)
- "Towards homological projective duality for Gr(2, 2n)", *HSE*, Seminar of Laboratory of Algebraic Geometry (March 10 2023)
- "Towards homological projective duality for Gr(2, 2n)", in SIMC Youth Race (March 14 2023)

SUMMER SCHOOLS AND CONFERENCES

Period School With a talk	$\begin{array}{l} {\rm May \ 1 \ 2014-May \ 10 \ 2014}\\ {\rm XIII \ International \ School \ on \ Theoretical \ and \ Mathematical \ Physics}\\ {\rm Moduli \ space \ of \ stable \ 2-bundles \ on \ }\mathbb{P}^2\\ {\rm Dubna, \ Russia} \end{array}$
Period School	May 12 2014 — May 23 2014 Classical and <i>p</i> -adic Hodge Theory Rennes, France
Period School	January 5 2015 — January 15 2015 Hyperbolicity in algebraic geometry Ilhabela, Sao Paulo, Brazil
School	Advanced School and Workshop of Moduli Spaces, Mirror Symmetry and Enumerative Geomet 1 Jul 2016 — 19 Jul 20 ICTP, Trieste, Ita
Period	
School Period	Positivity in Arithmetic and Geometry 29 May 2017 — 2 Jun 2017 Orsay, Paris, France
School Period	Arizona Winter School 2017: Perfectoid Spaces Mar 11 2017 — Mar 15 2017 Tucson, Arizona, United States