

CURRICULUM VITÆ

Vasily Krylov

Personal data: Born in Moscow, Russia, October 17, 1995. Russian citizenship. Single.

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Education: • 2013— 2017 B.S. National Research University Higher School of Economics, Faculty of Mathematics

- 2014— present Independent University of Moscow
- 2017— present M.S. program "Mathematics" National Research University Higher School of Economics
- 2017— present M.S. program "Mathematical Physics" Skolkovo Institute of Science and Technology.

Employment: • 2016— present Research Intern at the Laboratory of Algebraic Geometry and its Applications at HSE.

Publications: • Preprint "Drinfeld-Gaitsgory Interpolation Grassmannian and Geometric Satake Equivalence", preprint arXiv: 1805.07721.

- Paper "Integrable crystals and restriction to Levi via generalized slices in the affine Grassmannian", *Funct. Anal. Its Appl.* (2018) 52: 113-133.
- Preprint "Explicit construction of the isomorphism between quiver varieties of type A and transversal slices in the affine Grassmannian" to be appear as an appendix to the new version of the paper "Quiver varieties and Beilinson-Drinfeld Grassmannians of type A" // <https://arxiv.org/abs/0712.4160>.

Prizes, awards, grants, scholarships: • First prize at the 20th All-Russian Möbius Contest in the section "Undergraduates"

- Student Research Paper Competition held by HSE (2016) second prize
- Golden HSE Award, nomination Silver Nestling (2016)
- Dobrushin stipend (spring semester 2017)
- RSF-DFG grant (2018)

Talks: • "Drinfeld-Gaitsgory interpolation Grassmannian and geometric Satake equivalence" at the Representation Theory Seminar (Kyoto, fall 2018)

- "Geometric, affine and GIT quotients in the algebraic geometry" at Seminar on Representations of Quivers (Moscow, spring 2018)
- "Convolution construction of $U(\mathfrak{n})$ " at Seminar on Representations of Quivers (Moscow, spring 2018)
- "Convolution and Hecke algebras" at Seminar on Representations of Quivers (Moscow, spring 2018)
- "On isomorphisms between quiver varieties of type A and slices in the affine Grassmannian" at Geometry, Physics, and Representation Theory Seminar (Boston, fall 2017)
- "On the Jacobson-Morozov theorem" at the seminar on algebra and model theory (Moscow, spring 2017)
- "Geometric Satake isomorphism" at the seminar on geometric structures on manifolds (Moscow, spring 2017)
- "Explicit construction of the isomorphism between quiver varieties of type A and transversal slices in the affine Grassmannian" at the Informal Representation Theory and Mathematical Physics Seminar (Kyoto, fall 2016)
- "Orbital integrals and Springer fibers" at the Arithmetic geometry seminar (Moscow, fall 2016)

Conferences: • "Summer school on algebra and geometry", July 25 - 31, 2018 in Yaroslavl

- "CIME School Geometric Representation Theory and Gauge Theory", June 25 - 29, 2018 in Cetraro, Italy
- "Lie Theory without Groups: Enumerative Geometry and Quantization of Symplectic Resolutions", January 7 - 12, 2018 in Jerusalem
- "Interactions between Representation Theory and Algebraic Geometry", August 21 - 25, 2017 in Chicago
- "Summer school on algebra and geometry", July 25 - 31, 2017 in Yaroslavl
- "Current topics in the theory of algebraic Groups", July 3 - 7, 2017 in Dijon

- “Geometric Representation Theory”, October 10 - 14, 2016 in Kyoto
- “Summer school on algebra and geometry”, July 25 - 31, 2016 in Yaroslavl
- “Summer school on algebra and geometry”, July 25 - 31, 2015 in Yaroslavl
- “The 25th Annual PCMI Summer Session, Geometry of moduli spaces and representation theory”, June 28 - July 18, 2015 in Utah

Research interests: algebraic geometry, representation theory.