

Sergei Iakovenko

Contact information

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Research interests

Algebraic number theory, arithmetic geometry.



Education

- 2017–present** Mathematical Institute of the University of Bonn, PhD studies
Advisor Peter Scholze.
2011–2017 Saint Petersburg State University, Saint Petersburg.
MS in mathematics under the supervision of Alexander Smirnov (2017).
Thesis: Vector bundles on some arithmetic schemes.

Publications

1. *S. Iakovenko*. Representations of the Kottwitz gerbes (2020), Preprint.
2. *S.S. Iakovenko*. Vector $P_{\mathbb{Z}}^1$ -bundles with generic fiber $\mathcal{O} \oplus \mathcal{O}(1)$ and simple jumps (2018), Journal Math Sciences 232, pp. 732–745.
3. *A. L. Smirnov, S. S. Yakovenko*. A construction of linear filtrations for bundles on $P_{\mathbb{Z}}^1$ (2017), Mat. Sbornik, 208:4, pp. 111–128.

Unpublished notes

1. *S. Iakovenko*. A survey on vector bundles over $P_{\mathbb{Z}}^1$ (2017).

Employment

- 2015–2017** Student researcher, Chebyshev Laboratory, St. Petersburg State University.

Academic Honours

- 2015** Rokhlin Grant.
2013 Gazprom Neft Stipend.
2011 Euler Foundation Stipend.

Teaching experience

As an organizer

- 2017** “Modular forms and Hecke operators”, seminar.
2016–2017 “The arithmetic of modular curves”, seminar.

As a teaching assistant

- 2014** “Algebra and number theory”, Department of Mathematics and Mechanics, SPbU.

Invited lectures

- 2016** “Vector bundles on the Arakelov compactification of $P_{\mathbb{Z}}^1$ ”, Arithmetic geometry seminar, IUM, Moscow.
2016 “Determinant bundles and the Quillen metric”, Chebyshev Lab Colloquium, St. Petersburg.

Selected seminar talks

- 2019** “Special cases of the AFL”, ARGOS, University of Bonn.
2018 “ δ -rings”, ARGOS, University of Bonn.
2017 “Segal spaces and $(\infty, 1)$ -categories”, Higher K-theory seminar, POMI, St. Petersburg.
2016 “Automorphic forms for O_n , neighbours, and Siegel theta series”, seminar on modular forms, Chebyshev Lab, St. Petersburg.
2015 “The Picard scheme of an abelian variety”, seminar on abelian varieties, Chebyshev Lab, St. Petersburg.

Attended conferences and summer schools

- 2019** “ \mathbb{F}_1 -Geometry and Motives”, Augsburg, November 8-9.
2019 “Geometry and arithmetic of algebraic varieties”, Bonn, June 11-14.
2018 “Conference on Arithmetic Algebraic Geometry”, Bonn, October 1 - 5.
2018 “Arithmetic and Algebraic Geometry”, a conference in honor of Ofer Gabber, IHES, Bures-sur-Yvette, France, June 11-15.
2018 “Conference on Arithmetic and Automorphic Forms”, on the occasion of Günter Harder’s 80th birthday, MPIM, Bonn, March 12 - 14.
2016 The 6th summer school “Algebra and geometry”, Yaroslavl, YSPU.
2015 “Algebraic Geometry and Applications to Physics and Dynamics” conference, May 25 - 29, 2015, The Euler International Mathematical Institute, St. Petersburg.
2014 Traditional winter session MIAN-POMI “Algebraic geometry, K-theory, and motives”, POMI, St. Petersburg.

Languages

Russian, English, Portuguese – fluent, Spanish – intermediate.