Borys Kadets

August 16, 2021
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Research interests

Number theory, algebraic geometry

Employment

- **University of Georgia** — USA
  Limited Term Assistant Professor — *Spring 2021 –*
- **Mathematical Sciences Research Institute** — USA
  Postdoctoral Fellow — *Fall 2020*

Education

- **Massachusetts Institute of Technology** — USA
  PhD, advisor Bjorn Poonen — *2015 - 2020*
- **Kharkiv, V.N. Karazin National University** — Ukraine
  BSc in Pure Mathematics — *2011 - 2015*

Publications

1. B. Kadets "Sectional monodromy groups of projective curves"– Jour. London Math. Soc., (2) 103 (2021) arXiv
2. S. Hashimoto and B. Kadets "38406501359372282063949 & all that: Monodromy of Fano Problems" – International Mathematics Research Notices, (2020), arXiv
3. B. Kadets "Estimates for the number of rational points on simple abelian varieties over finite fields" – Math. Zeitschrift (2020), arXiv
4. B. Kadets "Large arboreal Galois representations" – Journal of Number Theory, **210** (2020) 416-430, arXiv
5. B. Kadets, E. Karolinsky, A. Stolin, I. Pop "Classification of quantum groups and Belavin-Drinfeld cohomologies for orthogonal and symplectic Lie algebras" – J. Math. Phys, **57**, 051707 (2016), arXiv
6. B. Kadets, E. Karolinsky, A. Stolin, I. Pop "Classification of quantum groups and Belavin-Drinfeld cohomologies" – Communications in Mathematical Physics, **344**, 1, 2016, p. 1-24, arXiv
7. C. Eagle, I. Farah, B. Hart, B. Kadets, V. Kalashnyk, M. Lupini "Fraïssé limits of C*-algebras" – J. Symb. Logic, **81**(02), 2016, arXiv
8. B. Kadets, E. Karolinsky, A. Stolin, I. Pop "Quantum groups: from Kulish-Reshetikhin discovery to classification" – Zap. Nauchn. Sem. POMI, **433**, 2015, p.186-196, arXiv

Preprints

1. B. Kadets, D. Litt "Level structure, arithmetic representations, and noncommutative Siegel linearization", arXiv
2. P. Dittmann, B. Kadets "Odoni's conjecture on arboreal Galois representations is false", arXiv

Research Talks

- "Low degree points and linear configurations", Oberwolfach workshop "Explicit Methods in Number Theory", 2021
- "Improving Weil bounds for abelian varieties", CMS Summer Meeting, 2021
- "Improve your Weil bounds with this one weird trick", University of Georgia number theory seminar, 2021
- "Monodromy groups in algebraic geometry", MSRI Junior seminar, 2020
- "Improving Weil bounds for abelian varieties", MSRI Definability seminar, 2020
- "38406501359372282063949 & all that: Monodromy of Fano problems", Universtiy of Georgia algebraic geometry seminar, 2020
- "38406501359372282063949 & all that: Monodromy of Fano problems", Stanford algebraic geometry seminar, 2020
- "Number of points on abelian varieties over finite fields", University of Washington number theory seminar, 2020
- "Monodromy of hyperplane sections of projective curves", Joint Mathematics Meeting, Denver, CO, 2020
- "Monodromy of hyperplane sections of projective curves", AMS Western Sectional Meeting, Riverside, CA, 2019
- "Sectional monodromy groups of projective curves", Number Theory seminar, UW Madison, 2019
- "Sectional monodromy groups of projective curves", Algebra seminar, Georgia Tech., 2019

Other activities

- MSRI Summer School on "Sparsity of Algebraic points", Teaching Assistant 2021
- ZaZoom (Zannier on Zoom) co-organizer, UGA, Fall 2020
- STAGE (Seminar on Topics in Arithmetic, Geometry, Etc.) co-organizer, MIT, Fall 2019
- Math Research Community "Explicit Methods in Arithmetic Geometry in Characteristic p" assistant, 2019

- MIT Friends of the Arts co-organizer, 2018-2019
- STAGE (Seminar on Topics in Arithmetic, Geometry, Etc.) co-organizer, MIT, Fall 2018
- STAGE (Seminar on Topics in Arithmetic, Geometry, Etc.) co-organizer, MIT, Spring 2017
- SPUR (Summer Program in Undergraduate Research) mentor, MIT, 2016
- PRIMES (Program for Research in Mathematics, Engineering and Science for High School Students) mentor, MIT, 2015-2016
- Co-organizer of Kharkiv Undergraduate Math Seminar 2014-2015
- Mentor of a high school olympiad circle, Kharkiv 2011-2015