

Aknazar Kazhymurat

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Born: August 14, 2001—Almaty, Kazakhstan
Nationality: Kazakhstan

Education

2018-19 12th grade of high school in NIS PM Almaty, GPA 5.0/5.0.
Fall 2019 Expect to start freshman year at Harvard College

Awards and honours

2017 Golden medal, [International Physics Olympiad](#)
2017 Golden medal, [S.-T. Yau Science Competition \(Mathematics\)](#)
2017 Research presentation ranked 1st at 'Geometry and topology' section of [ISSC](#) (international scientific conference for undergraduate students)
2017 Ranked 3rd in [Saint-Petersburg Olympiad](#) in topology (international olympiad in topology for undergraduate students)

Research publications

• *On a lower bound for the energy functional on a family of Hamiltonian minimal Lagrangian tori in $\mathbb{C}P^2$* , Volume 59, Issue 4, Sib. Math. Journal

Other writing

• *Topological uniqueness results for Lefschetz fibrations over the disc*, preprint [arXiv:1808.06656](https://arxiv.org/abs/1808.06656)
• Two expository notes (on differential geometry and étale cohomology respectively), available at kazhymurat.ml

Research presentations

• 54th International scientific students conference, Novosibirsk State University, April 2016, "On the number of reducible elements in a general linear system"
• 7th European congress of Mathematicians, 'Complex and algebraic geometry' section, July 2016, "Noncommutative geometry: an introduction"
• 4th school students conference "Young Al-Farabi", Kazakh National University, February 2017, "Indices of commuting differential operators with meromorphic coefficients"
• 55th International scientific students conference, Novosibirsk State University, April 2017, "Lower energy estimates for Lagrangian tori in $\mathbb{C}P^2$ "

- Contemporary Problems of Pure and Applied Mathematics, Institute of mathematics and mathematical modelling (Almaty), August 2017, "Lower estimates for the energy functional on a family of Hamiltonian-minimal Lagrangian tori in $\mathbb{C}P^2$ "
- Geometry Days in Novosibirsk, Novosibirsk State University, September 2017, "Energy estimates for a family of Lagrangian tori in $\mathbb{C}P^2$ "
- Workshop 'Young Researchers in String Mathematics', MPIM Bonn, November 2017, "Lower energy estimates for Lagrangian tori in $\mathbb{C}P^2$ " (on organizers' financial aid)

Attended conferences

- Geometry Days in Novosibirsk, Novosibirsk State University, September 2016
- Dynamics in Siberia, Novosibirsk State University, February 2017 (on organizers' financial aid)
- Arbeitstagung on "Physical Mathematics", MPIM Bonn, June 2017
- The International Winter School 'Partition functions and Automorphic Forms, JINR Dubna, January 2018 (on organizers' financial aid)
- Dynamics in Siberia, Novosibirsk State University, February 2018 (on organizers' financial aid)
- Current developments in geometry, Novosibirsk State University, August 2018 (on organizers' financial aid)