CURRICULUM VITAE

Stepan A. Alexandrov

Department of Discrete Mathematics
Moscow Institute of Physics and Technology

Laboratory of Combinatorial and Geometric Structures
Moscow Institute of Physics and Technology

PERSONAL DATA

Last Name:	Alexandrov (also *Aleksandrov*)
First Name:	Stepan
Patronymic:	Andreevich
Date of Birth:	25 January 2000
Place of Birth:	Yaroslavl, Russia
Citizenship:	Russian Federation
Marital Status:	Single

LANGUAGES

Russian:	Native speaker
English:	Advanced
French:	Beginner

CONTACTS

Home:	Institutskiy per., 6a
	Dolgoprudny, Moscow Region
	141700, Russia
Mobile Phone:	+7 (995) 917-72-51
Telegram:	@cyanprism
E-mail:	cyanprism@gmail.com
	aleksandrov.sa@phystech.edu
Site:	cyanprism.github.io

Revised 02/07/2023

ACADEMIC DEGREES

Jul 2023   **Master diploma** in Informatics and Computer Engineering summa cum laude, Moscow Institute of Physics and Technology.

Thesis: Hyperbolic Coxeter polytopes.

Advisor: associate prof. Nikolay V. Bogachev.

Jul 2021   **Bachelor diploma** in Applied Mathematics and Informatics, Moscow Institute of Physics and Technology.

Thesis: Combinatorial properties of compact hyperbolic Coxeter polytopes.

Advisor: associate prof. Nikolay V. Bogachev.

Jun 2017   **Certificate of school education**, School 33, Yaroslavl, Russia.

UNIVERSITY EDUCATION

Sep 2021
Jun 2023   **Moscow Institute of Physics and Technology**, School of Applied Mathematics and Informatics, Department of Discrete Mathematics.

Sep 2017
Jun 2021   **Moscow Institute of Physics and Technology**, Faculty of Innovation and High Technology, Department of Discrete Mathematics.

PROFESSIONAL BACKGROUND

Sep 2022
present   **Research Intern** at Laboratory of Combinatorial and Geometric Structures, Moscow Institute of Physics and Technology.

Sep 2021
Jun 2023   **Teaching Assistant** at Department of Discrete Mathematics, Moscow Institute of Physics and Technology.

Lectures on differential geometry and topology, and algebraic topology.

Seminars on discrete analysis, foundations of probability and measure theory, differential geometry and topology, theory of rings and fields, computational complexity, mathematical logic and algorithm theory, and algebraic topology.

PUBLICATIONS

PREPRINTS

[Ale23]   **On ideal vertices of right-angled hyperbolic polyhedra**, S. Alexandrov, 2023, arXiv:2303.09533.

[Ale22]   **Lannér diagrams and combinatorial properties of compact hyperbolic Coxeter polytopes**, S. Alexandrov, 2022, arXiv:2203.07248 (accepted to Transactions of the AMS).

2023

[ABVE23]   **On volumes of hyperbolic right-angled polyhedra**, S. A. Alexandrov, N. V. Bogachev, A. Yu. Vesnin, and A. A. Egorov, *Matematicheskii Sbornik*, 214:2 (2023), 3–22, doi:10.4213/sm9740 (in Russian; English version: arXiv:2111.08789).

GRANTS AND SCHOLARSHIPS

Sep 2022 present	Increased State Academic Scholarship for noteworthy research achievements, Moscow Institute of Physics and Technology.
Jan 2022	The Kovalevskaya Grant for participation in International Congress of Mathematicians 2022, Russia — canceled due to the congress being held online.
Dec 2021 present	Grant "Leader (Math)" #20-7-1-33-4 of the Theoretical Physics and Mathematics Advancement Foundation "BASIS" (young participant-student; project *"Arithmetic, geometry, and topology of hyperbolic orbifolds"*; head of the group: Andrey Yu. Vesnin).

SCHOOLS AND CONFERENCES

SPEAKER

Jan 2023	Tenth School-Conference "Lie Algebras, Algebraic Groups, and Invariant Theory", Higher School of Economics, Moscow, Russia.
Oct 2022	International School "Toric Topology, Combinatorics, and Data Analysis", Euler International Mathematical Institute, Saint Petersburg, Russia.
Sep 2022	Conference "Geometry and Topology of 3-Manifolds", Sirius Mathematical Center, Sochi, Russia.

PARTICIPANT

Jan 2023	Winter Student School in Mathematics and Theoretical Informatics, International Laboratory of Cluster Geometry, Higher School of Economics, Moscow, Russia.
Dec 2022	Summer School "Boundaries of the Singularities", Higher School of Economics, Moscow, Russia.
Jul 2022	Summer Mathematical School and International Conference "Algebra and Geometry", Higher School of Economics & Independent University of Moscow, Suzdal, Russia.
Jul 2022	9th International Youth Summer School-Conference on Geometric Methods of Mathematical Physics, Steklov International Mathematical Center & Moscow State University, Krasnovidovo, Russia.

Apr 2022	Winter Mathematical School SPbSU — HSE, Saint Petersburg State University, Russia.
Aug 2021	School "Computational Complexity Theory", Sirius Mathematical Center, Sochi, Russia.
Jul 2021	Summer Research Program for Undergraduates, Laboratory of Combinatorial and Geometric Structures, Moscow Institute of Physics and Technology, Dolgoprudny, Russia.
Feb 2017	Winter Computer School, Moscow Institute of Physics and Technology, Dolgoprudny, Russia.
Feb 2016	Winter Computer School, Moscow Institute of Physics and Technology, Dolgoprudny, Russia.

OLYMPIADS AND COMPETITIONS

Dec 2022	26$^{\text{th}}$ All-Russian Möbius Contest, nomination "Undergraduates", Independent University of Moscow, Russia (*diploma of a finalist*).
Dec 2021	25$^{\text{th}}$ All-Russian Möbius Contest, nomination "Undergraduates", Independent University of Moscow, Russia (*diploma of a finalist)*.
Jul 2021	Review of Theses in Mathematics, Higher School of Economics, Nizhny Novgorod, Russia (*prize-winner)*.
Mar 2017	All-Russian School Olympiad in Informatics, Innopolis (*prize-winner)*.
Mar 2017	Olympiad in Programming "Technocup", Moscow (*prize-winner)*.
Apr 2016	All-Russian School Olympiad in Informatics, Kazan (*prize-winner)*.