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**EDUCATION****Moscow Institute of Physics and Technology (MIPT)***Department: Landau Phystech School of Physics and Research**Major: Applied Mathematics and Physics**GPA: 4.95/5.00**Expected Graduation: Jul 2024*

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**WORK EXPERIENCE****MSU Quantum Technology Centre & Russian Quantum Center***Sep 2022 - Present***QOTLabs - Neutral Atom Quantum Computing**

Optimised Raman excitation for single-qubit gates[1, 4]. Generated phase masks for SLM, stabilised lasers, worked with resonators. Currently modelling two-photon Rydberg excitation to improve two-qubit gates[2].

**Russian Quantum Center - Summer internship***Jun-Aug 2022***Laboratory of Ultracold Fermions**

Assembled optical scheme for atomic beam spectroscopy and saturated absorption spectroscopy.

Optimised setup parameters for creating atomic beam of  $^6\text{Li}$  to increase number of atoms in Zeeman slower[3].

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**CONFERENCES AND PUBLICATIONS**

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|---|------------------|
| 1. International Conference on Quantum Technologies 2023 - Poster<br>“ <a href="#">Randomised Benchmarking of Single-Qubit Gates on a Neutral Atom Quantum Processor</a> ”                              | <i>July 2023</i> |
| 2. Conference Physics of Ultracold Atoms 2023 - Thesis accepted<br>“Modelling of Two-Photon Rydberg Excitation of Single Atom in Optical Tweezers”  | <i>Upcoming</i>  |
| 3. Abstracts on Conference on the Fundamentals of Physics of Ultracold Atoms and Ions,<br>“ <a href="#">Measurement of <math>^6\text{Li}</math> Atomic Beam Properties via Spectroscopy</a> ”           | <i>May 2023</i>  |
| 4. Abstracts on the 65th Conference of Moscow Institute of Physics and Technology<br>“ <a href="#">Modelling of single-qubit gates error on neutral atoms due to oscillations in optical tweezers</a> ” | <i>Apr 2023</i>  |
| 5. Abstracts on the 65th Conference of Moscow Institute of Physics and Technology<br>“ <a href="#">Framework for DOSY NMR Data Analysis</a> ”   | <i>Apr 2023</i>  |
| 6. Abstracts on the Conference Lomonosov-2023<br>“ <a href="#">Saturated Absorption Spectroscopy of D2 Line of Rb Isotopes</a> ”  | <i>Apr 2023</i>  |

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**AWARDS AND SCHOLARSHIPS****Charitable Foundation for the Development of Innovation Education***Feb 2020 - Aug 2023*

- Scholarship for academic achievements

**Moscow Institute of Physics and Technology**

- Increased academic state scholarship for academic and scientific achievements

*Sep 2023 - Present*

- Winner of competition of student works by Department of General Physics

*Jan 2023*

- Winner of competition of student works by Department of General Physics

*Jun 2023*

- Scholarship for academic excellence

*Sep 2020 - Present*

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**WORKSHOPS AND TALKS**

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|--|-----------------|
| 1. Seminar of MIPT Theoretical Physics Department “ <a href="#">Green’s Functions and Nonlinear Systems</a> ”<br>Presented a talk on V-system interaction with classical electromagnetic fields. | <i>Jan 2023</i> |
| 2. MIPT Workshop “Computational Methods in Materials Science”<br>Lectures and seminars on computational methods in materials design  | <i>Sep 2023</i> |

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**PROJECTS****Domain structure of YiG thin films, Ising model and Magnetic memory***Jun 2023*

- Observed domain structure in YiG thin films, investigated Ising model with Monte-Carlo
- Project won competition of student works by MIPT Department of General Physics

**Hackathon - Naumen IT company***Apr 2021*

- Developed telegram bot to support Naumen interns, project scored 2nd place

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**MORE**

- Software: Python, Julia, Wolfram Mathematica, Latex, C++, SolidWorks, Git