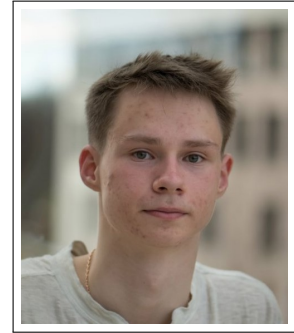


# Pavel Kislitsyn

25 y.o. researcher, Saint-Petersburg • [hh resume](#)  
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🐙 [Github](#) 📠 [Telegram](#)



## Education

### Ioffe Institute

*Ph.D. student*

Specialization in Theoretical Astrophysics

**Saint-Petersburg, Russia**

2023 – present

### HSE University

*Master of Science in Physics*

Specialization in Theoretical Physics

Thesis: "Determination of the primordial composition of baryonic matter in the Universe"

**Saint-Petersburg, Russia**

2021 – 2023

### Academic University

*Bachelor of Science in Applied Mathematics and Theoretical Physics*

Specialization in Theoretical Physics

Thesis: "Determination of the primordial helium abundance using the analyses of H II region spectra"

**Saint-Petersburg, Russia**

2017 – 2021

#### Main courses:

Algebra, Mathematical analysis, Probability theory, Topology, Group theory, Electrodynamics, Quantum mechanics, Quantum field theory, Condensed matter physics, Numerical methods, General relativity, Cosmology

### Academic lyceum "Physical-Technical High School"

*General Certificate of Secondary Education*

Specialization in physics and mathematics

**Saint-Petersburg, Russia**

2014 – 2017

## Work Experience

### Department of Theoretical Astrophysics, Ioffe Institute

*Junior research scientist*

**Saint Petersburg, Russia**

2023 – present

### CoPEA, Gazprom-neft NTC

*Specialist (mathematician-programmer)*

**Saint Petersburg, Russia**

2022 – 2023

### Department of Theoretical Astrophysics, Ioffe Institute

*Laboratory assistant*

**Saint Petersburg, Russia**

2021 – 2023

## Skills

**Languages:** Russian (native speaker), English (Upper intermediate), Deutsch (basic)

**Computer skills:** Julia (PyCall, PyPlot, DelimitedFiles), Python (numpy, scipy, matplotlib, os, emcee, chainconsumer, numba), git, slurm, Excel/VBA; some coding experience in Java, SQL, C, Javascript

**Researcher skills:** Statistics and probability theory, Monte Carlo methods, Excel, basics in machine learning technologies

**Soft skills:** Inspired worker with a strong sense of responsibility and a business-oriented approach

## Conferences

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- NCPHM "XVI international school on Neutrino physics and Astrophysics", Technopark Sarov, Russia. – **speaker**. (2024)
- ESO conference "Spectral Fidelity", Firenze, Italy – **speaker**. (2023)

## Fellowships & Awards

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- "BASIS" Foundation grant for participating in the summer school on quantum fields. (2023)
- Ioffe fellowship for students of 2-4 courses. (2020)
- Awardee diploma of the All-Russian Olympiad of schoolchildren on astronomy. (2015)

## Key publications

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- **Kislitsyn P.A.**, Balashev S.A., Murphy M.T., Ledoux C., Noterdaeme P., Ivanchik A.V.  
*A new precise determination of the primordial abundance of deuterium: measurement in the metal-poor sub-DLA system at  $z = 3.42$  towards quasar J 1332+0052.*  
Monthly Notices of the Royal Astronomical Society, Volume 528, Issue 3, pp.4068-4081, 2024.  
(**Q1, Impact Factor: 4.7**) <https://arxiv.org/abs/2401.1279>
- Kurichin O.A., **Kislitsyn P.A.**, Ivanchik A.V.  
*Determination of H II Region Metallicity in the Context of Estimating the Primordial Helium Abundance.*  
Astronomy Letters, Volume 47, Issue 10, p.674-685, 2021. (**Q3, Impact factor: 1.384**), 2021  
<https://arxiv.org/abs/2201.06431>
- Kurichin O.A., **Kislitsyn P.A.**, Klimenko V.V., Balashev S.A., Ivanchik A.V.  
*A new determination of the primordial helium abundance using the analyses of H II region spectra from SDSS.*  
Monthly Notices of the Royal Astronomical Society, Volume 502, Issue 2, pp.3045-3056, 2021.  
(**Q1, Impact Factor: 5.287**), 2021 <https://arxiv.org/abs/2101.09127>