

Valentin Nezabudkin

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EDUCATION

2024 — present	PhD Student in Astrophysics Moscow Institute of Physics and Technology (MIPT) <i>Advisor: Dr. Roman Krivonos. Research: composition of the diffuse X-ray emission of the central Milky Way.</i>
2022 — 2024	M.Sc. in Applied Physics and Mathematics Moscow Institute of Physics and Technology (MIPT) <i>Thesis: X-ray emission of the Nuclear Stellar Disk (SRG/ART-XC).</i>
2018 — 2022	B.Sc. in Applied Physics and Mathematics Moscow Institute of Physics and Technology (MIPT)

POSITIONS

2022 — present	Engineer, High Energy Astrophysics Department Space Research Institute of the Russian Academy of Sciences (IKI RAS)
2020 — 2022	Student Researcher NRC “Kurchatov Institute” <i>Monte Carlo neutron transport simulations (MCNP) for thorium fuel blankets.</i>

RESEARCH INTERESTS

Diffuse X-ray emission of the Milky Way, in particular its central region on the scale of the nuclear stellar disk; Galactic X-ray source populations (cataclysmic variables, active binaries) and their contribution to the observed diffuse emission; X-ray surveys with **SRG/ART-XC** and **Chandra**; galaxy formation, large-scale structure, and the evolution of the Universe from its earliest epochs.

PUBLICATIONS

Nezabudkin, V., et al. 2026, “X-ray emission of the Nuclear Stellar Disk as seen by SRG/ART-XC”, *Journal of High Energy Astrophysics*. doi:10.1016/j.jheap.2025.100473 · arXiv:2507.04319

Full list: [NASA ADS](#).

INTERNATIONAL CONFERENCE PRESENTATIONS

2026	HEACOSS — Yerevan, Armenia	<i>contributed talk</i>
2026	Young Scientists Conference (YSC) — Moscow, Russia	<i>contributed talk</i>
2025	RCM — Moscow, Russia	<i>contributed talk</i>
2024	HEA — Moscow, Russia	<i>poster</i>
2024	HEACOSS — Yerevan, Armenia	<i>flash talk</i>

GRANTS

Russian Science Foundation (RSF) grant No. 24-22-00212 (2024–2025) — investigator.

SKILLS

- **Programming:** Python (numpy, scipy, astropy); parallel computing (MPI)
- **X-ray data analysis:** Chandra (CIAO, Sherpa), SRG/ART-XC survey data; source detection, spectral and spatial analysis
- **Modeling:** Galactic stellar population and mass-distribution modeling
- **Systems:** Linux server administration and service deployment

LANGUAGES

Russian — native · English — B1+/B2