

Балашев Сергей Александрович
официальный оппонент по диссертации Петрашкевича И.В.

1. Deka, P. P., Gupta, N., Krogager, J.-K., Balashev, S. A., Chen, H.-W., Combes, F., Klöckner, H.-R., Noterdaeme, P. H I 21-cm absorption in low- and high-excitation radio-loud active galactic nuclei at $z < 0.5$ from the MeerKAT Absorption Line Survey // *Astronomy & Astrophysics*, 713, A319 (2026).
2. Noterdaeme, P., Krogager, J.-K., & Balashev, S. Molecular Gas Hidden in Plain Sight in the Early Universe // *Astron. Astrophys.*, 712, L14 (2026).
3. Kislitsyn, P. A., Balashev, S. A., & Ivanchik, A. V. New Candidates for Measuring the Primordial Deuterium Abundance: Systematic Analysis of the SQUAD and KODIAQ Spectra // *Astron. Lett.*, 52(1), 2–7 (2026).
4. Gupta, N., Kerp, J., Balashev, S. A., Morelli, A. P. M., Combes, F., Krogager, J.-K., Momjian, E., Borgaonkar, D., Deka, P. P., Emig, K. L., Jose, J., Józsa, G. I. G., Klöckner, H.-R., Moodley, K., Muller, S., Noterdaeme, P., Petitjean, P., & Wagnveld, J. D. The MeerKAT Absorption Line Survey (MALS) Data Release 3: Cold Atomic Gas Associated with the Milky Way // *Astron. Astrophys.*, 698, A120 (2025).
5. Balashev, S. A., Kosenko, D. N., & Noterdaeme, P. First Detections of CO Absorption in the Magellanic Clouds and Direct Measurement of the CO-to-H₂ Ratio // *Astron. Astrophys.*, 696, L16 (2025).
6. Morelli, A. P. M., Kerp, J., Gupta, N., Combes, F., Balashev, S. A., Noterdaeme, P., Chen, H., Emig, K. L., & Momjian, E. Origin of Gas in the Magellanic Bridge: MeerKAT Detection of H I 21 cm Absorption // *Astron. Astrophys.*, 702, L11 (2025).
7. Balashev, S., Noterdaeme, P., Gupta, N., Krogager, J.-K., Combes, F., López, S., Petitjean, P., Omont, A., Srianand, R., & Cuellar, R. Quasar radiation transforms the gas in a merging companion galaxy // *Nature*, 641, 1137-1141 (2025).
8. Wagnveld, J. D., Klöckner, H.-R., Gupta, N., Sekhar, S., Jagannathan, P., Deka, P. P., Jose, J., Balashev, S. A., Borgaonkar, D., Chatterjee, A., Combes, F., Emig, K. L., Gaunekar, A. N., Hilton, M., Józsa, G. I. G., Klutse, D. Y., Knowles, K., Krogager, J.-K., Momjian, E., Muller, S., & Sikhosana, S. P. The MeerKAT Absorption Line Survey Data Release 2: Wideband Continuum Catalogues and a Measurement of the Cosmic Radio Dipole // *Astron. Astrophys.*, 690, A163 (2024).
9. Klimenko, V. V., Balashev, S. A., Noterdaeme, P., Srianand, R., & Ivanchik, A. V. Excitation of CO Molecules in Diffuse Gas over Cosmic History // *Mon. Not. R. Astron. Soc.*, 533(2), 1367–1393 (2024).

10. Kosenko, D. N., Balashev, S. A., & Klimenko, V. V. Cold Diffuse Interstellar Medium of Magellanic Clouds: II. Physical Conditions from Excitation of C I and H₂ // Mon. Not. R. Astron. Soc., 528(3), 5065–5079 (2024).
11. Balashev, S. A., & Kosenko, D. N. Neutral carbon in diffuse interstellar medium: abundance matching with H₂ for damped Lyman alpha systems at high redshifts // Monthly Notices of the Royal Astronomical Society, 527, 12109-12119 (2024).
12. Balashev, S. A., Ledoux, C., Noterdaeme, P., Boissé, P., Krogager, J.-K., López, S., & Telikova, K. N. Low-ionization iron-rich broad absorption-line quasar SDSS J 1652+2650: physical conditions in the ejected gas from excited Fe II and metastable He I // Monthly Notices of the Royal Astronomical Society, 524, 5016-5041 (2023)
13. Balashev, S. A., & Noterdaeme, P. Molecular hydrogen in absorption at high redshifts // Experimental Astronomy, 55, 223-239 (2023).
14. Balashev, S. A., Telikova, K. N., & Noterdaeme, P. C II*/C II ratio in high-redshift DLAs: ISM phase separation drives the observed bimodality of [C II] cooling rates // Monthly Notices of the Royal Astronomical Society, 509, L26-L30 (2022).