

Dr. Oleg Egorov

Curriculum Vitae (November 2023)

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Birthday: Jan 30, 1986

Work experience

- 2020 – present **Post-Doc**, *Astronomisches Rechen-Institute, Zentrum für Astronomie, Heidelberg University*, Heidelberg, Germany.
- 2014 – 2020 **Senior Researcher**¹, *Sternberg Astronomical Institute of Lomonosov Moscow State University (SAI MSU)*, Moscow, Russia.
Adjunct since 2020
- 2017 – 2020 **Research Fellowship (part-time visitor)**, *Special Astrophysical Observatory of Russian Academy of Sciences (SAO RAS)*, Nizhniy Arkhyz, Karachai-Cherkessia, Russia.
- 2011 – 2014 **Researcher**², *SAI MSU*, Moscow, Russia.

Education

- 2008 – 2011 **PhD in Astrophysics**, *Lomonosov Moscow State University, Physical department*, Moscow, Russia.
- 2002 – 2008 **MSc in Astronomy (with honours)**, *Lomonosov Moscow State University, Physical department*, Moscow, Russia.

Research activities and skills

Scientific interests

- Star formation and stellar feedback
- Ionized ISM in our and nearby galaxies
- HII regions, bubbles, supernovae remnants
- Chemical and dynamical evolution of galaxies
- Nearby dwarf galaxies
- Optical integral-field spectroscopy techniques

Collaborations

- PHANGS: Physics at High Angular resolution in Nearby Galaxies
- SDSS-V LVM: Local Volume mapper

¹similar to the advanced Post-Doc / junior group leader position

²similar to the Post-Doc position

Data reduction and programming experience

Infrared: JWST (MIRI, NIRCam); Spitzer (IRAC, MIPS); Herschel (PACS, SPIRE)

- Optical:
- VLT/MUSE; SDSS-V/LVM; IFU from BTA/SCORPIO-2 and BTA/MPFS;
 - Fabry-Perot Interferometer from BTA/SCORPIO-2, WHT/GHaFaS;
 - Long-slit spectra from various telescopes/instruments (incl. BTA/SCORPIO, SALT/RSS, GTC, Subaru, TDS at 2.5-m SAI MSU);
 - Imaging from various ground-based telescopes/instruments

Software and **Python** and **IDL** (data analysis and code developing);

packages: Cloudy, pycldy, Starburst99, pyneb, 3DBarolo, ppxf, ULySS, astrodendro, HIIPhot, HII-Chi-Mistry, IZI, pymusepipe, jwst-pipeline, MOPEX, HIPE, etc.

- Main developed packages:
- lvmdatasimulator (python-based simulator of the SDSS-V/LVM data)
 - pjpipe: phangs-jwst pipeline (contributed to its development)
 - ifured (IDL pipeline for BTA/SCORPIO-2 IFU data reduction)
 - longred (python package for reduction of the long-slit data from BTA/SCORPIO and TDS at 2.5-m SAI MSU spectrographs)
 - kinescope (IDL package for viewing and fitting FPI data)

Services

Observer at the optical telescopes

- o **2.5-m telescope of Caucasian Mountain Observatory** (SAI MSU): observer with NBI optical CCD-camera, NIR-camera ASTRONIRCAM and narrow-band imager with tunable filter MaNGaL.
- o **6-m telescope BTA of SAO RAS**: assistant observer with SCORPIO and SCORPIO-2 focal reducers in long-slit spectroscopy, IFU, scanning Fabry-Perot interferometer (FPI) and imaging with narrow-band filters modes.
- o **SDSS-V/LVM telescopes**: regular remote observations (half a night per week) during the commissioning and early operation period

Organization of the science meetings

- o **EAS-2022, SS-16: “Connecting stellar sources and the ionised ISM”** (Valencia, Spain, 2022): co-chair, SOC member
- o **SDSS-V/LVM team meeting** (Heidelberg, Germany 2022): LOC member

Referee in peer-review journals

Astronomy & Astrophysics; Astrophysical Journal; Galaxies; Astrophysical Bulletin; Open Astronomy; Astronomy Reports (**9 papers** in total)

Successful telescope proposals

Principal Investigator (PI) or co-PI

8.2-m VLT: **PI:** “Constraining ISM mixing and weighing molecular gas by mapping dwarf MUSE galaxy abundances”, 8h, (P111, 2023)
(ESO, Chile) **PI:** “Quantifying feedback from young star clusters in low-mass galaxies”, 10h, (P110, 2022/23)

11-m SALT **co-PI:** “Origin of supersonic motions and chemical abundance in HII regions (South of the galaxy Sextans B”, RSS, 6h, PI: Kniazev (2019)
Africa)

6-m BTA **PI:** “Diffuse ionized gas in galaxies”, SCORPIO-2, multi-year program, 2-3 nights per period (2020–2023)
(SAO RAS, Russia) **co-PI:** “Supernovae and stellar winds in nearby galaxies”, SCORPIO-2, multi-year program, 2-4 nights/period, PI: Lozinskaya (2008–2023)
(co-I in 2008-2017)

2.5-m CMO **PI:** “Ionized gas in nearby galaxies”, NBI imaging camera, TDS, (2017-2020)
(SAI MSU, Russia) **co-PI:** “Galaxies in voids”, NBI imaging camera, PI: Egorova (2017-2020)

co-Investigator (co-I)

JWST ○ “A JWST Census of the Local Galaxy Population: Anchoring the Physics of the Matter Cycle”, MIRI+NIRCam, 155.38h, ID:3707, PI: Leroy (Cycle 2, 2023)
(NASA) ○ “Resolving HII Regions and ISM Structure Across the Milky Way Analog NGC 253”, MIRI+NIRCam, 22.06h; ID:2987, PI: Leroy (Cycle 2, 2023)

HST ○ “Benchmarking early-type Wolf-Rayet stars as sources of He II ionizing flux in stellar populations”, COS FUV/NUV, 26 Orbits, GO-17426, PI: Sander (Cycle 31, 2023)
(NASA) ○ “Resolving gas, star formation and feedback in nearby galaxies with an HST+JWST+ALMA Treasury”, ACS/WFC + WFC3/UVIS, 169 Orbits; GO-17502, PI: Thilker (Cycle 31, 2023)

8.2-m VLT: ○ “An enigmatic ‘beast’: the nearby edge-on giant LSB galaxy PGC 75143”, 18.7h, PI: Galaz (P111, 2023)
MUSE ○ “Mapping extended discs of two giant low-surface brightness galaxies”, 34.2h, PI: Saburova (P110, 2022/23)
(ESO, Chile) ○ “Unveiling the fountain: the MUSE view on the Sculptor”, 51.5h, PI: Congiu (P108, 2021/22)
○ “Constraining ISM mixing and weighing molecular gas by mapping dwarf galaxy abundances”, 17h, PI: Kreckel (P108, 2021/22)

- 8.2-m VLT:** ○ “Deep FORS2 spectroscopy of giant low-surface brightness galaxies”, 29.4h, other instr. PI: Saburova (P111, 2023)
- 10-m Keck:** ○ “Resolving Feedback from Massive Stars in M33 H II Regions”, 2 nights, **KCWI** U199, PI: Sandstrom (2023B)
(Hawaii, USA)
- VLA (USA)** ○ DDT Exploratory Time for “Revealing the true nature of the emission nebulae in the dwarf galaxy NGC 185”, 1h, PI: Ilic (2019)
- AstroSat:** ○ “Multiwavelength spectral variability in highly variable ultra-luminous X-ray **UVIT** source J081929.00+704219.3: testing the irradiated disk and the donor star”, (India) 26.7h, PI: Safonova (A07, 2019)
- 6-m BTA** ○ “Gas accretion in disk galaxies galaxies”, SCORPIO-2, multi-year program, (SAO RAS, 2-3 nights per period, PI: Egorova (2016-2021)
Russia) ○ “Star formation towards the Galactic OB association Cyg OB1”, SCORPIO, 5 nights total, PI: Sitnik (2014–2015, 2017)
○ “Study of the ionized gas beyond the central complex of star formation in IC1613 galaxy”, SCORPIO, 1 night, PI: Vučetić (2020)
- 3.58-m NTT** ○ “Redshift confirmation of giant low-surface brightness galaxies and their (ESO, Chile) compact elliptical satellites” EFOSC2, 5.4 nights, PI: Grishin (P110, 2022/23)
- 4.2-m WHT** ○ “Off-plane gas tracing infall which feeds cosmologically continuous star for- (IAC, Spain) mation in galaxies”, GHaFaS, 4 nights, PI: Beckman (16A, 2016)

Grants and awards

PI of research grants

- 2019 Russian Scientific Foundation (RSCF) grant for initiative projects of young researchers, 19-72-00149 (~ 50 kEUR for two students and myself, for 2 years)
- 2018 Russian Foundation for Basic Researches (RFBR) grant for junior leaders, 18-32-20120 (~ 85 kEUR for small group, for 3 years)
- 2018 RFBR grant for initiative scientific projects (general competition), 18-02-00976 (~ 30 kEUR for small group, for 3 year)
- 2012 RFBR grant for young researchers, 12-02-31356 (~ 10 kEUR, for 3 year)

Honors/Awards

- 2021 I.M. Kopylov award for the observational works on the Russian BTA telescope
- 2020 Second prize in the 42-th young researchers competition organized by Moscow State University, for the series of publications

2013, 2019 First prize in the competition of young researchers from Moscow State University organized by “Volnoe delo” foundation, for the series of publications

Teaching and supervising experience

Supervising

I was advisor/co-advisor of 4 BSc and 5 MSc theses. Currently I supervise/help supervise 2 Master’s students

2023 – co-advisor of MSc student **Mar Canal i Saguer** (Heidelberg University), main present advisor – K. Kreckel

2018 – Advisor of **Ivan Gerasimov** from Moscow State University (MSU). Since 2021 present – remotely. BSc thesis in 2022; now he works on MSc thesis

2017 – 2020 Advisor of **Konstantin Vasiliev** and **Anastasiya Yarovova** in MSU (BSc and MSc theses; currently they are PhD students at MSU)

2013 – 2017 Co-advisor of **Grigory Smirnov-Pinchukov** (BSc and MSc theses; obtained PhD at MPIA in 2022), main advisor – prof. T. Lozinskaya

Lectures/tutorials

September 2023 Hands-on tutorials at the IMPRS Summer School 2023 “Unraveling Galaxy Evolution with JWST”

July 2018 Lectures “Observations of ionised gas in nearby galaxies” for Bachelor students on summer practice at the CMO SAI MSU observatory (Kislovodsk, Russia)

Media coverage and public outreach

- 5 of my research papers were accompanied by press-releases by Heidelberg University; SAO RAS or in public media (2 articles in ‘N+1’, in Russian). The series of papers from PHANGS-JWST special issue of ApJL (I am author/co-author of most of them) received a wider coverage (incl. NASA).
- 1 public lecture on science festival at Moscow State University (2019)
- public lectures as a guide in Moscow planetarium (part-time work, 2011-2016)

Talks at the conferences and seminars

5 talks at scientific seminars/colloquia and 31 conference talks (including 2 invited) in 2008–2023.
Last 5 years:

Date	Place	Event	Talk
Jul 2023	Healesville, Australia	New views on feedback & the baryon cycle in galaxies	“The energy balance between the turbulent ionized gas and young stars in nearby galaxies”
Jul 2023	Perth, Australia	AMT seminar at ICRAR (University of Western Australia)	“Energy balance between the ionized gas and massive stars in nearby (PHANGS) galaxies”
Jun 2023	Bajina Basta, Serbia	14th Serbian Conference on Spectral Line Shapes in Astrophysics	“Kinematics of the ionized gas in nearby galaxies as diagnostics of the energy balance between ISM and massive stars” (invited)
May 2023	Paralia Katerini, Grece	The Olympian Symposium: Star formation in the era of JWST	“Destruction of the PAH molecules in HII regions probed by JWST and MUSE”
Feb 2023	Heidelberg, Germany	ARI Institute Colloquium	“Stellar feedback shaping the ionized ISM in the nearby galaxies”
Dec 2022	Heidelberg, Germany	Theory meets observations	“Interaction of the ionized gas and ISM at various metallicities”
Sep 2022	Prague, Czech Republic	Wheels of star formation	“The energy balance between stellar sources and the ionized ISM in nearby galaxies”
Jun 2022	Valencia, Spain	EAS-2022	“PHANGS-MUSE and PHANGS-HST: Quantifying the energy balance between stellar sources and ionized ISM”
Sep 2021	Online	Annual Meeting of the Astronomische Gesellschaft	“Ionized superbubbles and their driving stellar association in PHANGS”
Jun 2021	Online	ARI Institute Colloquium	“Superbubbles, stellar feedback and triggering of star formation in nearby galaxies”
Mar 2021	Online	Ringberg Virtual Seminar Series	“SIGMA-FPI: Ionized gas and stellar feedback in nearby dwarf galaxies”
Oct 2019	Nizhniy Arkhyz, Russia	Diversity of the Local Universe	“Feedback-driven superbubbles and triggered star formation in nearby dwarf galaxies”
Jun 2019	Lyon, France	EWASS-2019	“Observations of feedback-driven superbubbles and triggered star formation in the nearby dwarf galaxies” “Ionized gas inside and outside star-forming regions in the dwarf galaxies of the M81 group”
May 2019	Asiago, Italy	Multi-spin galaxies 2019	“Metallicity and ionization state in polar ring galaxies”
Mar 2019	Sao Jose dos Campos, Brazil	II workshop “Chemical abundances in gaseous nebulae”	“Oxygen abundance and its gradients in the interacting and multi-spin galaxies ”

List of publications

Total number of publications: 93; ADS h-index: 17

Accepted papers and preprints

1. Rickards Vaught, R. J., Sandstrom, K. M., Belfiore, F., Kreckel, K., Méndez-Delgado, J. E., Emsellem, E., Groves, B., Blanc, G. A., Dale, D. A., **Egorov, O. V.**, Glover, S. C. O., Grasha, K., Klessen, R. S., Neumann, J., and Williams, T. G. (2023).
Investigating the Drivers of Electron Temperature Variations in HII Regions with Keck-KCWI and VLT-MUSE.
ApJ, arXiv:2309.17440.
Online: <https://ui.adsabs.harvard.edu/abs/2023arXiv230917440R>.

Published refereed papers: as first or corresponding author

2. **Egorov, O. V.**, Kreckel, K., Glover, S. C. O., Groves, B., Belfiore, F., Emsellem, E., Klessen, R. S., Leroy, A. K., Meidt, S. E., Sarbadhicary, S. K., Schinnerer, E., Watkins, E. J., Whitmore, B. C., Barnes, A. T., Congiu, E., Dale, D. A., et al. (2023).
Quantifying the energy balance between the turbulent ionised gas and young stars.
A&A 678, A153, A153.
Online: <https://ui.adsabs.harvard.edu/abs/2023A&A...678A.153E>.
3. **Egorov, O. V.**, Kreckel, K., Sandstrom, K. M., Leroy, A. K., Glover, S. C. O., Groves, B., Kruijssen, J. M. D., Barnes, A. T., Belfiore, F., Bigiel, F., Blanc, G. A., Boquien, M., Cao, Y., Chastenet, J., Chevance, M., Congiu, E., et al. (2023).
PHANGS-JWST First Results: Destruction of the PAH Molecules in H II Regions Probed by JWST and MUSE.
ApJ Letters 944, L16, L16.
Online: <https://ui.adsabs.harvard.edu/abs/2023ApJ...944L..16E>.
4. Yarovova, A. D., **Egorov, O. V.**, Moiseev, A. V., and Maryeva, O. V. (2023).
Unveiling the nitrogen-rich massive star in the metal-poor galaxy NGC 4068.
MNRAS 518, 2256–2272.
Online: <https://ui.adsabs.harvard.edu/abs/2023MNRAS.518.2256Y>.
5. Gerasimov, I. S., **Egorov, O. V.**, Lozinskaya, T. A., Moiseev, A. V., and Oparin, D. V. (2022).
Stellar feedback impact on the ionized gas kinematics in the dwarf galaxy Sextans A.
MNRAS 517, 4968–4985.
Online: <https://ui.adsabs.harvard.edu/abs/2022MNRAS.517.4968G>.
6. **Egorov, O. V.**, Lozinskaya, T. A., Vasiliev, K. I., Yarovova, A. D., Gerasimov, I. S., Kreckel, K., and Moiseev, A. V. (2021).
Star formation in the nearby dwarf galaxy DDO 53: interplay between gas accretion and stellar feedback.
MNRAS 508, 2650–2667.
Online: <https://ui.adsabs.harvard.edu/abs/2021MNRAS.508.2650E>.
7. Egorova, E. S., **Egorov, O. V.**, Moiseev, A. V., Saburova, A. S., Grishin, K. A., and Chilingarian, I. V. (2021).
Search for gas accretion imprints in voids: II. The galaxy Ark 18 as a result of a dwarf-dwarf merger.
MNRAS 504, 6179–6197.
Online: <https://ui.adsabs.harvard.edu/abs/2021MNRAS.504.6179E>.

8. Smirnov-Pinchukov, G. V. and **Egorov, O. V.** (2021).
Measurements of the Expansion Velocities of Ionized-Gas Superbubbles in Nearby Galaxies Based on Integral Field Spectroscopy Data.
Astrophysical Bulletin 76, 367–380.
Online: <https://ui.adsabs.harvard.edu/abs/2021AstBu..76..367S>.
9. Oparin, D. V., **Egorov, O. V.**, and Moiseev, A. V. (2020).
Ionized Gas in the NGC 3077 Galaxy.
Astrophysical Bulletin 75, 361–375.
Online: <https://ui.adsabs.harvard.edu/abs/2020AstBu..75..361O>.
10. **Egorov, O. V.** and Moiseev, A. V. (2019).
Metallicity and ionization state of the gas in polar-ring galaxies.
MNRAS 486, 4186–4197.
Online: <https://ui.adsabs.harvard.edu/abs/2019MNRAS.486.4186E>.
11. **Egorov, O. V.**, Lozinskaya, T. A., Moiseev, A. V., and Smirnov-Pinchukov, G. V. (2018).
Star formation complexes in the ‘galaxy-sized’ supergiant shell of the galaxy Holmberg I.
MNRAS 478, 3386–3409.
Online: <https://ui.adsabs.harvard.edu/abs/2018MNRAS.478.3386E>.
12. **Egorov, O. V.**, Lozinskaya, T. A., and Moiseev, A. V. (2017).
The ultraluminous X-ray source Ho II X-1: kinematic evidence of its escape from a cluster.
MNRAS 467, L1–L5.
Online: <https://ui.adsabs.harvard.edu/abs/2017MNRAS.467L...1E>.
13. **Egorov, O. V.**, Lozinskaya, T. A., Moiseev, A. V., and Shchekinov, Y. A. (2017).
Complexes of triggered star formation in supergiant shell of Holmberg II.
MNRAS 464, 1833–1853.
Online: <https://ui.adsabs.harvard.edu/abs/2017MNRAS.464.1833E>.
14. **Egorov, O. V.**, Lozinskaya, T. A., Moiseev, A. V., and Smirnov-Pinchukov, G. V. (2014).
The supergiant shell with triggered star formation in the dwarf irregular galaxy IC 2574: neutral and ionized gas kinematics.
MNRAS 444, 376–391.
Online: <https://ui.adsabs.harvard.edu/abs/2014MNRAS.444..376E>.
15. **Egorov, O. V.**, Lozinskaya, T. A., and Moiseev, A. V. (2013).
Emission spectrum of ionized gas in the irregular galaxy Holmberg II.
MNRAS 429, 1450–1465.
Online: <https://ui.adsabs.harvard.edu/abs/2013MNRAS.429.1450E>.
16. **Egorov, O. V.** and Lozinskaya, T. A. (2011).
Gas and dust in the BCD galaxy VII Zw 403 (UGC 6456).
Astrophysical Bulletin 66, 293–303.
Online: <https://ui.adsabs.harvard.edu/abs/2011AstBu..66..293E>.
17. **Egorov, O. V.**, Lozinskaya, T. A., and Moiseev, A. V. (2010a).
A region of violent star formation in the Irr galaxy IC 10: Structure and kinematics of ionized and neutral gas.
Astronomy Reports 54, 277–294.
Online: <https://ui.adsabs.harvard.edu/abs/2010ARep...54..277E>.

Published refereed papers: other

18. Barnes, A. T., Watkins, E. J., Meidt, S. E., Kreckel, K., Sormani, M. C., Treß, R. G., Glover, S. C. O., Bigiel, F., Chandar, R., Emsellem, E., Lee, J. C., Leroy, A. K., Sandstrom, K. M., Schinnerer, E., Rosolowsky, E., Belfiore, F., et al. (2023).
PHANGS-JWST First Results: Multiwavelength View of Feedback-driven Bubbles (the Phantom Voids) across NGC 628.
ApJ Letters 944, L22, L22.
Online: <https://ui.adsabs.harvard.edu/abs/2023ApJ...944L..22B>.
19. Belfiore, F., Leroy, A. K., Williams, T. G., Barnes, A. T., Bigiel, F., Boquien, M., Cao, Y., Chastenet, J., Congiu, E., Dale, D. A., **Egorov, O. V.**, Eibensteiner, C., Emsellem, E., Glover, S. C. O., Groves, B., Hassani, H., et al. (2023).
Calibrating mid-infrared emission as a tracer of obscured star formation on H II-region scales in the era of JWST.
A&A 678, A129, A129.
Online: <https://ui.adsabs.harvard.edu/abs/2023A&A...678A.129B>.
20. Chastenet, J., Sutter, J., Sandstrom, K., Belfiore, F., **Egorov, O. V.**, Larson, K. L., Leroy, A. K., Liu, D., Rosolowsky, E., Thilker, D. A., Watkins, E. J., Williams, T. G., Barnes, A. T., Bigiel, F., Boquien, M., Chevance, M., et al. (2023a).
PHANGS-JWST First Results: Measuring Polycyclic Aromatic Hydrocarbon Properties across the Multiphase Interstellar Medium.
ApJ Letters 944, L12, L12.
Online: <https://ui.adsabs.harvard.edu/abs/2023ApJ...944L..12C>.
21. Chastenet, J., Sutter, J., Sandstrom, K., Belfiore, F., **Egorov, O. V.**, Larson, K. L., Leroy, A. K., Liu, D., Rosolowsky, E., Thilker, D. A., Watkins, E. J., Williams, T. G., Barnes, A. T., Bigiel, F., Boquien, M., Chevance, M., et al. (2023b).
PHANGS-JWST First Results: Variations in PAH Fraction as a Function of ISM Phase and Metallicity.
ApJ Letters 944, L11, L11.
Online: <https://ui.adsabs.harvard.edu/abs/2023ApJ...944L..11C>.
22. Chen, N. M., Tucker, M. A., Hoyer, N., Jha, S. W., Kwok, L. A., Leroy, A. K., Rosolowsky, E., Ashall, C., Anand, G., Bigiel, F., Boquien, M., Burns, C., Dale, D., DerKacy, J. M., **Egorov, O. V.**, Galbany, L., et al. (2023).
Serendipitous Nebular-phase JWST Imaging of SN Ia SN 2021aefx: Testing the Confinement of ^{56}Co Decay Energy.
ApJ Letters 944, L28, L28.
Online: <https://ui.adsabs.harvard.edu/abs/2023ApJ...944L..28C>.
23. Congiu, E., Blanc, G. A., Belfiore, F., Santoro, F., Scheuermann, F., Kreckel, K., Emsellem, E., Groves, B., Pan, H.-A., Bigiel, F., Dale, D. A., Glover, S. C. O., Grasha, K., **Egorov, O. V.**, Leroy, A., Schinnerer, E., Watkins, E. J., and Williams, T. G. (2023).
PHANGS-MUSE: Detection and Bayesian classification of 40 000 ionised nebulae in nearby spiral galaxies.
A&A 672, A148, A148.
Online: <https://ui.adsabs.harvard.edu/abs/2023A&A...672A.148C>.
24. Dale, D. A., Boquien, M., Barnes, A. T., Belfiore, F., Bigiel, F., Cao, Y., Chandar, R., Chastenet, J., Chevance, M., Deger, S., **Egorov, O. V.**, Grasha, K., Groves, B., Hassani, H.,

- Henny, K. F., Klessen, R. S., et al. (2023).
PHANGS-JWST First Results: The Influence of Stellar Clusters on Polycyclic Aromatic Hydrocarbons in Nearby Galaxies.
ApJ Letters 944, L23, L23.
Online: <https://ui.adsabs.harvard.edu/abs/2023ApJ...944L..23D>.
25. Groves, B., Kreckel, K., Santoro, F., Belfiore, F., Zavodnik, E., Congiu, E., **Egorov, O. V.**, Emsellem, E., Grasha, K., Leroy, A., Scheuermann, F., Schinnerer, E., Watkins, E. J., Barnes, A. T., Bigiel, F., Dale, D. A., Glover, S. C. O., Pessa, I., Sanchez-Blazquez, P., and Williams, T. G. (2023).
The PHANGS-MUSE nebular catalogue.
MNRAS 520, 4902–4952.
Online: <https://ui.adsabs.harvard.edu/abs/2023MNRAS.520.4902G>.
26. Gusev, A. S., Sakhibov, F., **Egorov, O. V.**, Kostiuk, V. S., and Shimanovskaya, E. V. (2023).
Physical parameters of stellar population in star formation regions of galaxies.
MNRAS 525, 742–760.
Online: <https://ui.adsabs.harvard.edu/abs/2023MNRAS.525..742G>.
27. Hassani, H., Rosolowsky, E., Leroy, A. K., Boquien, M., Lee, J. C., Barnes, A. T., Belfiore, F., Bigiel, F., Cao, Y., Chevance, M., Dale, D. A., **Egorov, O. V.**, Emsellem, E., Faesi, C. M., Grasha, K., Kim, J., et al. (2023).
PHANGS-JWST First Results: The 21 μm Compact Source Population.
ApJ Letters 944, L21, L21.
Online: <https://ui.adsabs.harvard.edu/abs/2023ApJ...944L..21H>.
28. Hoyer, N., Pinna, F., Kamlah, A. W. H., Nogueras-Lara, F., Feldmeier-Krause, A., Neumayer, N., Sormani, M. C., Boquien, M., Emsellem, E., Seth, A. C., Klessen, R. S., Williams, T. G., Schinnerer, E., Barnes, A. T., Leroy, A. K., Bonoli, S., et al. (2023).
PHANGS-JWST First Results: A Combined HST and JWST Analysis of the Nuclear Star Cluster in NGC 628.
ApJ Letters 944, L25, L25.
Online: <https://ui.adsabs.harvard.edu/abs/2023ApJ...944L..25H>.
29. Kim, J., Chevance, M., Kruijssen, J. M. D., Barnes, A. T., Bigiel, F., Blanc, G. A., Boquien, M., Cao, Y., Congiu, E., Dale, D. A., **Egorov, O. V.**, Faesi, C. M., Glover, S. C. O., Grasha, K., Groves, B., Hassani, H., et al. (2023).
PHANGS-JWST First Results: Duration of the Early Phase of Massive Star Formation in NGC 628.
ApJ Letters 944, L20, L20.
Online: <https://ui.adsabs.harvard.edu/abs/2023ApJ...944L..20K>.
30. Lee, J. C., Sandstrom, K. M., Leroy, A. K., Thilker, D. A., Schinnerer, E., Rosolowsky, E., Larson, K. L., **Egorov, O. V.**, Williams, T. G., Schmidt, J., Emsellem, E., Anand, G. S., Barnes, A. T., Belfiore, F., Bešlić, I., Bigiel, F., et al. (2023).
The PHANGS-JWST Treasury Survey: Star Formation, Feedback, and Dust Physics at High Angular Resolution in Nearby Galaxies.
ApJ Letters 944, L17, L17.
Online: <https://ui.adsabs.harvard.edu/abs/2023ApJ...944L..17L>.
31. Leroy, A. K., Sandstrom, K., Rosolowsky, E., Belfiore, F., Bolatto, A. D., Cao, Y., Koch, E. W., Schinnerer, E., Barnes, A. T., Bešlić, I., Bigiel, F., Blanc, G. A., Chastenet, J., Chen, N. M.,

- Chevance, M., Chown, R., et al. (2023).
PHANGS-JWST First Results: Mid-infrared Emission Traces Both Gas Column Density and Heating at 100 pc Scales.
ApJ Letters 944, L9, L9.
Online: <https://ui.adsabs.harvard.edu/abs/2023ApJ...944L...9L>.
32. Liu, D., Schinnerer, E., Cao, Y., Leroy, A., Usero, A., Rosolowsky, E., Kruijssen, J. M. D., Chevance, M., Glover, S. C. O., Sormani, M. C., Bolatto, A. D., Sun, J., Stuber, S. K., Teng, Y.-H., Bigiel, F., Bešlić, I., et al. (2023).
PHANGS-JWST First Results: Stellar-feedback-driven Excitation and Dissociation of Molecular Gas in the Starburst Ring of NGC 1365?
ApJ Letters 944, L19, L19.
Online: <https://ui.adsabs.harvard.edu/abs/2023ApJ...944L..19L>.
33. Meidt, S. E., Rosolowsky, E., Sun, J., Koch, E. W., Klessen, R. S., Leroy, A. K., Schinnerer, E., Barnes, A. T., Glover, S. C. O., Lee, J. C., van der Wel, A., Watkins, E. J., Williams, T. G., Bigiel, F., Boquien, M., Blanc, G. A., et al. (2023).
PHANGS-JWST First Results: Interstellar Medium Structure on the Turbulent Jeans Scale in Four Disk Galaxies Observed by JWST and the Atacama Large Millimeter/submillimeter Array.
ApJ Letters 944, L18, L18.
Online: <https://ui.adsabs.harvard.edu/abs/2023ApJ...944L..18M>.
34. Méndez-Delgado, J. E., Esteban, C., García-Rojas, J., Arellano-Córdova, K. Z., Kreckel, K., Gómez-Llanos, V., **Egorov, O. V.**, Peimbert, M., and Orte-García, M. (2023).
Density biases and temperature relations for DESIRED H II regions.
MNRAS 523, 2952–2973.
Online: <https://ui.adsabs.harvard.edu/abs/2023MNRAS.523.2952M>.
35. Rodríguez, M. J., Lee, J. C., Whitmore, B. C., Thilker, D. A., Maschmann, D., Chandar, R., Deger, S., Boquien, M., Dale, D. A., Larson, K. L., Williams, T. G., Kim, H., Schinnerer, E., Rosolowsky, E., Leroy, A. K., Emsellem, E., et al. (2023).
PHANGS-JWST First Results: Dust-embedded Star Clusters in NGC 7496 Selected via 3.3 μm PAH Emission.
ApJ Letters 944, L26, L26.
Online: <https://ui.adsabs.harvard.edu/abs/2023ApJ...944L..26R>.
36. Sandstrom, K. M., Chastenet, J., Sutter, J., Leroy, A. K., **Egorov, O. V.**, Williams, T. G., Bolatto, A. D., Boquien, M., Cao, Y., Dale, D. A., Lee, J. C., Rosolowsky, E., Schinnerer, E., Barnes, A. T., Belfiore, F., Bigiel, F., et al. (2023).
PHANGS-JWST First Results: Mapping the 3.3 μm Polycyclic Aromatic Hydrocarbon Vibrational Band in Nearby Galaxies with NIRCам Medium Bands.
ApJ Letters 944, L7, L7.
Online: <https://ui.adsabs.harvard.edu/abs/2023ApJ...944L...7S>.
37. Sandstrom, K. M., Koch, E. W., Leroy, A. K., Rosolowsky, E., Emsellem, E., Smith, R. J., **Egorov, O. V.**, Williams, T. G., Larson, K. L., Lee, J. C., Schinnerer, E., Thilker, D. A., Barnes, A. T., Belfiore, F., Bigiel, F., Blanc, G. A., et al. (2023).
PHANGS-JWST First Results: Tracing the Diffuse Interstellar Medium with JWST Imaging of Polycyclic Aromatic Hydrocarbon Emission in Nearby Galaxies.

- ApJ Letters 944, L8, L8.
Online: <https://ui.adsabs.harvard.edu/abs/2023ApJ...944L...8S>.
38. Scheuermann, F., Kreckel, K., Barnes, A. T., Belfiore, F., Groves, B., Hannon, S., Lee, J. C., Minsley, R., Rosolowsky, E., Bigiel, F., Blanc, G. A., Boquien, M., Dale, D. A., Deger, S., **Egorov, O. V.**, Emsellem, E., et al. (2023).
Stellar associations powering H II regions - I. Defining an evolutionary sequence.
MNRAS 522, 2369–2383.
Online: <https://ui.adsabs.harvard.edu/abs/2023MNRAS.522.2369S>.
39. Schinnerer, E., Emsellem, E., Henshaw, J. D., Liu, D., Meidt, S. E., Querejeta, M., Renaud, F., Sormani, M. C., Sun, J., **Egorov, O. V.**, Larson, K. L., Leroy, A. K., Rosolowsky, E., Sandstrom, K. M., Williams, T. G., Barnes, A. T., et al. (2023).
PHANGS-JWST First Results: Rapid Evolution of Star Formation in the Central Molecular Gas Ring of NGC 1365.
ApJ Letters 944, L15, L15.
Online: <https://ui.adsabs.harvard.edu/abs/2023ApJ...944L...15S>.
40. Thilker, D. A., Lee, J. C., Deger, S., Barnes, A. T., Bigiel, F., Boquien, M., Cao, Y., Chevance, M., Dale, D. A., **Egorov, O. V.**, Glover, S. C. O., Grasha, K., Henshaw, J. D., Klessen, R. S., Koch, E., Kruijssen, J. M. D., et al. (2023).
PHANGS-JWST First Results: The Dust Filament Network of NGC 628 and Its Relation to Star Formation Activity.
ApJ Letters 944, L13, L13.
Online: <https://ui.adsabs.harvard.edu/abs/2023ApJ...944L...13T>.
41. Watkins, E. J., Kreckel, K., Groves, B., Glover, S. C. O., Whitmore, B. C., Leroy, A. K., Schinnerer, E., Meidt, S. E., **Egorov, O. V.**, Barnes, A. T., Lee, J. C., Bigiel, F., Boquien, M., Chandar, R., Chevance, M., Dale, D. A., et al. (2023).
Quantifying the energetics of molecular superbubbles in PHANGS galaxies.
A&A 676, A67, A67.
Online: <https://ui.adsabs.harvard.edu/abs/2023A&A...676A...67W>.
42. Watkins, E. J., Barnes, A. T., Henny, K., Kim, H., Kreckel, K., Meidt, S. E., Klessen, R. S., Glover, S. C. O., Williams, T. G., Keller, B. W., Leroy, A. K., Rosolowsky, E., Lee, J. C., Anand, G. S., Belfiore, F., Bigiel, F., et al. (2023).
PHANGS-JWST First Results: A Statistical View on Bubble Evolution in NGC 628.
ApJ Letters 944, L24, L24.
Online: <https://ui.adsabs.harvard.edu/abs/2023ApJ...944L...24W>.
43. Barnes, A. T., Chandar, R., Kreckel, K., Glover, S. C. O., Scheuermann, F., Belfiore, F., Bigiel, F., Blanc, G. A., Boquien, M., den Brok, J., Congiu, E., Chevance, M., Dale, D. A., Deger, S., Kruijssen, J. M. D., **Egorov, O. V.**, et al. (2022).
Linking stellar populations to H II regions across nearby galaxies. I. Constraining pre-supernova feedback from young clusters in NGC 1672.
A&A 662, L6, L6.
Online: <https://ui.adsabs.harvard.edu/abs/2022A&A...662L...6B>.
44. Emsellem, E., Schinnerer, E., Santoro, F., Belfiore, F., Pessa, I., McElroy, R., Blanc, G. A., Congiu, E., Groves, B., Ho, I. T., Kreckel, K., Razza, A., Sanchez-Blazquez, P., **Egorov, O.**, Faesi, C., Klessen, R. S., et al. (2022).
The PHANGS-MUSE survey. Probing the chemo-dynamical evolution of disc galaxies.

- A&A 659, A191, A191.
Online: <https://ui.adsabs.harvard.edu/abs/2022A&A...659A.191E>.
45. Kreckel, K., **Egorov, O. V.**, Belfiore, F., Groves, B., Glover, S. C. O., Klessen, R. S., Sandstrom, K., Bigiel, F., Dale, D. A., Grasha, K., Scheuermann, F., Schinnerer, E., and Williams, T. G. (2022).
A physically motivated “charge-exchange method” for measuring electron temperatures within H II regions.
A&A 667, A16, A16.
Online: <https://ui.adsabs.harvard.edu/abs/2022A&A...667A..16K>.
46. Lee, J. C., Whitmore, B. C., Thilker, D. A., Deger, S., Larson, K. L., Ubeda, L., Anand, G. S., Boquien, M., Chandar, R., Dale, D. A., Emsellem, E., Leroy, A. K., Rosolowsky, E., Schinnerer, E., Schmidt, J., Lilly, J., et al. (2022).
The PHANGS-HST Survey: Physics at High Angular Resolution in Nearby Galaxies with the Hubble Space Telescope.
ApJS 258, 10, 10.
Online: <https://ui.adsabs.harvard.edu/abs/2022ApJS...258...10L>.
47. Vasiliev, E. O., Shchekinov, Y. A., Koval', V. V., and **Egorov, O. V.** (2022).
On Possibility of Star Formation Triggered by Multiple Supernovae in Dwarf Galaxies.
Astrophysical Bulletin 77, 132–143.
Online: <https://ui.adsabs.harvard.edu/abs/2022AstBu...77...132V>.
48. Williams, T. G., Sun, J., Barnes, A. T., Schinnerer, E., Henshaw, J. D., Meidt, S. E., Querejeta, M., Watkins, E. J., Bigiel, F., Blanc, G. A., Boquien, M., Cao, Y., Chevance, M., **Egorov, O. V.**, Emsellem, E., Glover, S. C. O., et al. (2022).
PHANGS-JWST First Results: Spurring on Star Formation: JWST Reveals Localized Star Formation in a Spiral Arm Spur of NGC 628.
ApJ Letters 941, L27, L27.
Online: <https://ui.adsabs.harvard.edu/abs/2022ApJ...941L..27W>.
49. Zasov, A. V., Saburova, A. S., **Egorov, O. V.**, Lander, V. Y., and Makarov, D. I. (2022).
Arp 58 and Arp 68: two M 51-type systems.
MNRAS 516, 656–667.
Online: <https://ui.adsabs.harvard.edu/abs/2022MNRAS.516..656Z>.
50. Barnes, A. T., Glover, S. C. O., Kreckel, K., Ostriker, E. C., Bigiel, F., Belfiore, F., Bešlić, I., Blanc, G. A., Chevance, M., Dale, D. A., **Egorov, O.**, Eibensteiner, C., Emsellem, E., Grasha, K., Groves, B. A., Klessen, R. S., et al. (2021).
Comparing the pre-SNe feedback and environmental pressures for 6000 H II regions across 19 nearby spiral galaxies.
MNRAS 508, 5362–5389.
Online: <https://ui.adsabs.harvard.edu/abs/2021MNRAS.508.5362B>.
51. Leroy, A. K., Schinnerer, E., Hughes, A., Rosolowsky, E., Pety, J., Schrubba, A., Usero, A., Blanc, G. A., Chevance, M., Emsellem, E., Faesi, C. M., Herrera, C. N., Liu, D., Meidt, S. E., Querejeta, M., Saito, T., et al. (2021).
PHANGS-ALMA: Arcsecond CO(2-1) Imaging of Nearby Star-forming Galaxies.
ApJS 257, 43, 43.
Online: <https://ui.adsabs.harvard.edu/abs/2021ApJS...257...43L>.

52. Ivanova, O., Skorov, Y., Luk'yanyk, I., Tomko, D., Husárik, M., Blum, J., **Egorov, O.**, and Voziakova, O. (2020).
Activity of (6478) Gault during 2019 January 13-March 28.
MNRAS 496, 2636–2647.
Online: <https://ui.adsabs.harvard.edu/abs/2020MNRAS.496.2636I>.
53. Maryeva, O. V., Koenigsberger, G., Karpov, S. V., Lozinskaya, T. A., **Egorov, O. V.**, Rossi, C., Calabresi, M., and Viotti, R. F. (2020).
Asymmetrical nebula of the M33 variable GR290 (WR/LBV).
A&A 635, A201, A201.
Online: <https://ui.adsabs.harvard.edu/abs/2020A&A...635A.201M>.
54. Sitnik, T. G., Rastorguev, A. S., Tatarnikova, A. A., Tatarnikov, A. M., **Egorov, O. V.**, and Tatarnikov, A. A. (2020).
A revision of the vdB 130 cluster stellar content based on Gaia DR2 data: interstellar extinction toward the Cyg OB1 supershell.
MNRAS 498, 5437–5449.
Online: <https://ui.adsabs.harvard.edu/abs/2020MNRAS.498.5437S>.
55. Zasov, A. V., Saburova, A. S., **Egorov, O. V.**, and Moiseev, A. V. (2020).
NGC 90: a hidden jellyfish galaxy?
MNRAS 498, 101–109.
Online: <https://ui.adsabs.harvard.edu/abs/2020MNRAS.498..101Z>.
56. Egorova, E. S., Moiseev, A. V., and **Egorov, O. V.** (2019).
Search for gas accretion imprints in voids - I. Sample selection and results for NGC 428.
MNRAS 482, 3403–3414.
Online: <https://ui.adsabs.harvard.edu/abs/2019MNRAS.482.3403E>.
57. Sil'chenko, O. K., Moiseev, A. V., and **Egorov, O. V.** (2019).
The Gas Kinematics, Excitation, and Chemistry, in Connection with Star Formation, in Lenticular Galaxies.
ApJS 244, 6, 6.
Online: <https://ui.adsabs.harvard.edu/abs/2019ApJS..244....6S>.
58. Sitnik, T. G., **Egorov, O. V.**, Lozinskaya, T. A., Moiseev, A. V., Tatarnikov, A. M., Vozyakova, O. V., and Wiebe, D. S. (2019).
Star-forming regions at the periphery of the supershell surrounding the Cyg OB1 association - II. ISM kinematics and YSOs in the star cluster vdB 130 region.
MNRAS 486, 2449–2461.
Online: <https://ui.adsabs.harvard.edu/abs/2019MNRAS.486.2449S>.
59. Vučetić, M. M., Ilić, D., **Egorov, O. V.**, Moiseev, A., Onić, D., Pannuti, T. G., Arbutina, B., Petrov, N., and Urošević, D. (2019).
Revealing the nature of central emission nebulae in the dwarf galaxy NGC 185.
A&A 628, A87, A87.
Online: <https://ui.adsabs.harvard.edu/abs/2019A&A...628A..87V>.
60. Zasov, A. V., Saburova, A. S., **Egorov, O. V.**, and Dodonov, S. N. (2019).
Spectral observations of the systems with the disturbed spiral arms: Arp 42, Arp 82, and Arp 58.
MNRAS 486, 2604–2617.
Online: <https://ui.adsabs.harvard.edu/abs/2019MNRAS.486.2604Z>.

61. Afanaisev, V. L., **Egorov, O. V.**, and Perepelitsyn, A. E. (2018).
IFU Unit in Scorpio-2 Focal Reducer for Integral-Field Spectroscopy on the 6-m Telescope of the Special Astrophysical Observatory of the Russian Academy of Sciences.
Astrophysical Bulletin 73, 373–386.
Online: <https://ui.adsabs.harvard.edu/abs/2018AstBu...73..373A>.
62. Maryeva, O., Koenigsberger, G., **Egorov, O.**, Rossi, C., Polcaro, V. F., Calabresi, M., and Viotti, R. F. (2018).
Wind and nebula of the M 33 variable GR 290 (WR/LBV).
A&A 617, A51, A51.
Online: <https://ui.adsabs.harvard.edu/abs/2018A&A...617A..51M>.
63. Saburova, A. S., Chilingarian, I. V., Katkov, I. Y., **Egorov, O. V.**, Kasparova, A. V., Khoperskov, S. A., Uklein, R. I., and Vozyakova, O. V. (2018).
A Malin 1 ‘cousin’ with counter-rotation: internal dynamics and stellar content of the giant low surface brightness galaxy UGC 1922.
MNRAS 481, 3534–3547.
Online: <https://ui.adsabs.harvard.edu/abs/2018MNRAS.481.3534S>.
64. Zasov, A. V., Saburova, A. S., **Egorov, O. V.**, and Afanasiev, V. L. (2018).
Young stellar clumps in the interacting system Arp 305.
MNRAS 477, 4908–4914.
Online: <https://ui.adsabs.harvard.edu/abs/2018MNRAS.477.4908Z>.
65. Reshetnikov, V. P., Savchenko, S. S., Moiseev, A. V., and **Egorov, O. V.** (2017).
SDSS J170745+302056: A low-surface-brightness galaxy in a group.
Astronomy Letters 43, 812–819.
Online: <https://ui.adsabs.harvard.edu/abs/2017AstL...43..812R>.
66. Zasov, A. V., Saburova, A. S., **Egorov, O. V.**, and Uklein, R. I. (2017).
Interacting galaxy NGC4656 and its unusual dwarf companion.
MNRAS 469, 4370–4377.
Online: <https://ui.adsabs.harvard.edu/abs/2017MNRAS.469.4370Z>.
67. Katkov, I. Y., Sil’chenko, O. K., Chilingarian, I. V., Uklein, R. I., and **Egorov, O. V.** (2016).
Stellar counter-rotation in lenticular galaxy NGC 448.
MNRAS 461, 2068–2076.
Online: <https://ui.adsabs.harvard.edu/abs/2016MNRAS.461.2068K>.
68. Tatarnikova, A. A., Tatarnikov, A. M., Sitnik, T. G., and **Egorov, O. V.** (2016).
Spectroscopic and photometric characteristics of stars in the field of the cluster vdB 130.
Astronomy Letters 42, 790–799.
Online: <https://ui.adsabs.harvard.edu/abs/2016AstL...42..790T>.
69. Zasov, A. V., Saburova, A. S., **Egorov, O. V.**, and Afanasiev, V. L. (2016).
Tidal bridge and tidal dwarf candidates in the interacting system Arp194.
MNRAS 462, 3419–3429.
Online: <https://ui.adsabs.harvard.edu/abs/2016MNRAS.462.3419Z>.
70. Sitnik, T. G., **Egorov, O. V.**, Lozinskaya, T. A., Moiseev, A. V., Rastorguev, A. S., Tatarnikov, A. M., Tatarnikova, A. A., Wiebe, D. S., and Zabolotskikh, M. V. (2015).
Star-forming regions at the periphery of the supershell surrounding the Cyg OB1 association - I. The star cluster vdB 130 and its ambient gas and dust medium.

- MNRAS 454, 2486–2501.
Online: <https://ui.adsabs.harvard.edu/abs/2015MNRAS.454.2486S>.
71. Zasov, A., Saburova, A., Katkov, I., **Egorov, O.**, and Afanasiev, V. (2015).
Outer regions of the merging system Arp 270.
MNRAS 449, 1605–1613.
Online: <https://ui.adsabs.harvard.edu/abs/2015MNRAS.449.1605Z>.
72. Gusev, A. S., **Egorov, O. V.**, and Sakhibov, F. (2014).
Parameters of the brightest star formation regions in the two principal spiral arms of NGC 628.
MNRAS 437, 1337–1351.
Online: <https://ui.adsabs.harvard.edu/abs/2014MNRAS.437.1337G>.
73. Khramtsova, M. S., Wiebe, D. S., Lozinskaya, T. A., and **Egorov, O. V.** (2014).
Optical and infrared emission of H II complexes as a clue to the PAH life cycle.
MNRAS 444, 757–775.
Online: <https://ui.adsabs.harvard.edu/abs/2014MNRAS.444..757K>.
74. Wiebe, D. S., Khramtsova, M. S., **Egorov, O. V.**, and Lozinskaya, T. A. (2014).
Dust evolution in the dwarf galaxy Holmberg II.
Astronomy Letters 40, 278–290.
Online: <https://ui.adsabs.harvard.edu/abs/2014AstL...40..278W>.
75. Arkhipova, V. P., **Egorov, O. V.**, Esipov, V. F., Ikonnikova, N. P., Lozinskaya, T. A., Rudnitskij, G. M., Sitnik, T. G., Tatarnikov, A. M., Tsvetkov, D. Y., and Zharova, A. V. (2013).
A family of cometary globules at the periphery of Cyg OB1: the star HBHA 3703-01 and the reflection nebula GM 2-39.
MNRAS 432, 2273–2283.
Online: <https://ui.adsabs.harvard.edu/abs/2013MNRAS.432.2273A>.
76. Arkhipova, V. P., **Egorov, O. V.**, Lozinskaya, T. A., and Moiseev, A. V. (2011).
Ionized gas in the Irr galaxy IC 10: The emission spectrum and ionization sources.
Astronomy Letters 37, 65–82.
Online: <https://ui.adsabs.harvard.edu/abs/2011AstL...37...65A>.
77. Efremov, Y. N., Afanasiev, V. L., and **Egorov, O. V.** (2011).
Ionized gas characteristics in the cavities of the gas and dust disc of the spiral galaxy NGC 6946.
Astrophysical Bulletin 66, 304–319.
Online: <https://ui.adsabs.harvard.edu/abs/2011AstBu...66..304E>.
78. Wiebe, D. S., **Egorov, O. V.**, and Lozinskaya, T. A. (2011).
Polycyclic aromatic hydrocarbons in the dwarf galaxy IC 10.
Astronomy Reports 55, 585–594.
Online: <https://ui.adsabs.harvard.edu/abs/2011ARep...55..585W>.
79. Lozinskaya, T. A., **Egorov, O. V.**, Moiseev, A. V., and Bizyaev, D. V. (2009).
Gas emission spectrum in the Irr galaxy IC 10.
Astronomy Letters 35, 730–747.
Online: <https://ui.adsabs.harvard.edu/abs/2009AstL...35..730L>.

80. Moiseev, A. V. and **Egorov, O. V.** (2008).
Reduction of CCD observations made with the Fabry-Perot scanning interferometer. II. Additional procedures.
 Astrophysical Bulletin 63, 181–192.
 Online: <https://ui.adsabs.harvard.edu/abs/2008AstBu...63..181M>.
81. Arkhipova, V. P., Lozinskaya, T. A., Moiseev, A. V., and **Egorov, O. V.** (2007).
The gas emission spectrum in a star-forming region in the BCD galaxy VII Zw 403 (UGC 6456).
 Astronomy Reports 51, 871–881.
 Online: <https://ui.adsabs.harvard.edu/abs/2007ARep...51..871A>.
82. Lozinskaya, T. A., Moiseev, A. V., Avdeev, V. Y., and **Egorov, O. V.** (2006).
Structure and kinematics of the interstellar medium in the star-forming region in the BCD galaxy VII Zw 403 (UGC 6456).
 Astronomy Letters 32, 361–375.
 Online: <https://ui.adsabs.harvard.edu/abs/2006AstL...32..361L>.

Non-refereed publications and conference proceedings

83. Congiu, E., Blanc, G., Belfiore, F., Santoro, F., Scheuermann, F., Kreckel, K., Emsellem, E., Groves, B., Dale, D. A., Glover, S. C. O., Grasha, K., **Egorov, O.**, Leroy, A., Schinnerer, E., Watkins, E. J., and Williams, T. G. (2023).
 Classification of ionized nebulae in the PHANGS-MUSE sample: a Bayesian approach. In: *Physics and Chemistry of Star Formation: The Dynamical ISM Across Time and Spatial Scales*, pp.75.
 Online: <https://ui.adsabs.harvard.edu/abs/2023pcsf.conf...75C>.
84. Zasov, A., Saburova, A., and **Egorov, O.** (2022).
 Sites of star formation in tidal structures. In: *Astronomy at the Epoch of Multimessenger Studies*, pp.419–421.
 Online: <https://ui.adsabs.harvard.edu/abs/2022aems.conf...419Z>.
85. Zasov, A., Saburova, A., and **Egorov, O.** (2020).
 Sites of Star Formation in Tidal Structures. In: *Ground-Based Astronomy in Russia. 21st Century*. Ed. by I. I. Romanyuk, I. A. Yakunin, A. F. Valeev, and D. O. Kudryavtsev, pp.64–72.
 Online: <https://ui.adsabs.harvard.edu/abs/2020gbar.conf...64Z>.
86. **Egorov, O.** and Moiseev, A. (2018).
 Gas metallicity of polar ring galaxies as a probe of their formation scenario. In: *Chemical Abundances in Gaseous Nebulae*. Ed. by G. Hägele, M. Cardaci, and E. Pérez-Montero, pp.161.
 Online: <https://ui.adsabs.harvard.edu/abs/2018cagn.conf...161E>.
87. Zasov, A. V., Saburova, A. S., and **Egorov, O. V.** (2018).
 Foci of Star Formation in Interacting Systems of Galaxies. In: *Modern Star Astronomy*. Vol. 1, pp.172–176.
 Online: <https://ui.adsabs.harvard.edu/abs/2018msa...conf...172Z>.
88. **Egorov, O. V.**, Lozinskaya, T. A., and Moiseev, A. V. (2015).
Triggered star formation in giant HI supershells: ionized gas.
 Astronomical and Astrophysical Transactions 29, 17–24.
 Online: <https://ui.adsabs.harvard.edu/abs/2015A&AT...29...17E>.

89. Moiseev, A., **Egorov, O.**, and Smirnova, K. (2014).
The Sloan Digital Sky Survey Polar Ring Galaxy Catalogue: New Confirmations. In: *Multi-Spin Galaxies*. Ed. by E. Iodice and E. M. Corsini. Vol. 486. Astronomical Society of the Pacific Conference Series, pp.71.
Online: <https://ui.adsabs.harvard.edu/abs/2014ASPC...486...71M>.
90. **Egorov, O. V.**, Lozinskaya, T. A., and Moiseev, A. V. (2012).
The spectrum of gas emission in selected regions of the Irr starburst galaxy IC 10.
Astronomical and Astrophysical Transactions 27, 447–454.
Online: <https://ui.adsabs.harvard.edu/abs/2012A&AT...27..447E>.
91. **Egorov, O. V.**, Arkhipova, V. P., Lozinskaya, T. A., and Moiseev, A. V. (2011).
Ionized Gas and Sources of its Ionization in the Irr Galaxy IC 10. In: *EAS Publications Series*.
Ed. by M. Koleva, P. Prugniel, and I. Vauglin. Vol. 48. EAS Publications Series, pp.147–148.
Online: <https://ui.adsabs.harvard.edu/abs/2011EAS....48..147E>.
92. **Egorov, O. V.**, Lozinskaya, T. A., and Moiseev, A. V. (2010b).
The region of a recent burst of star formation in the Irr Galaxy IC10: the emission spectra, structure, and kinematics of ionized and neutral gas. In: *American Institute of Physics Conference Series*. Ed. by S. K. Chakrabarti, A. I. Zhuk, and G. S. Bisnovatyi-Kogan. Vol. 1206. American Institute of Physics Conference Series, pp.375–381.
Online: <https://ui.adsabs.harvard.edu/abs/2010AIPC.1206..375E>.
93. Lozinskaya, T. A., Moiseev, A. V., Avdeev, V. Y., **Egorov, O. V.**, and Podorvanyuk, N. Y. (2006).
Structure and kinematics of the interstellar medium in star-forming regions in Irr and BCD Galaxies. In: *Star Formation in the Galaxy and Beyond*, pp.213.
Online: <https://ui.adsabs.harvard.edu/abs/2006sfgb.conf..213S>.