

СПИСОК

публикаций, в которых излагаются основные научные результаты диссертации
на соискание ученой степени *доктора физико-математических наук*
по научной специальности *(1.3.1. Физика космоса, астрономия) на тему: (Динамические процессы в нейтронных звёздах),*
опубликованных в рецензируемых изданиях

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№ п/п	Название публикации на языке оригинала (при иноязычном названии – перевод на англ./ русс. яз.)	Тип публикации	DOI	Наименование издания	ISSN издания	Выходные данные публикации (Номер тома, Номер журнала, Страницы размещения публикации в журнале, Год)	Интернет - адрес публикации в журнале	Библиографическая база данных (eLIBRARY, WoS, Scopus и др.), в которой индексируется публикация	№ публикации в списке литературы диссертации	№ страницы диссертации, на которой приводится ссылка на публикацию	Объем публикации (печ., л/авт. л., личн. вклад)*	Соавторы
1	Dissipative superfluid relativistic magnetohydrodynamics of a multicomponent fluid: The combined	Научная статья (Q1)	10.1103/PhysRevD.104.123008	Physical Review D	1550-7998	Volume 104, Issue 12, article id.123008, 2021	https://journals.aps.org/prd/abstract/10.1103/PhysRevD.104.123008	Web of Science, Scopus	25	2, 22, 23, 31, 44	25/12.5	Dommes V. A., Gusakov M. E.
									9	10	12	13

	effect of particle diffusion and vortices																	
2	Long-lasting accretion-powered chemical heating of millisecond pulsars	Научная статья (Q1)	10.1093/mnras/stab2922	Monthly Notices of the Royal Astronomical Society	0035-8711	Volume 508, Issue 4, pp.6118-6127, 2021	https://doi.org/10.1093/mnras/stab2922	Web of Science, Scopus	45	2, 32, 38, 42, 43	10/5	Kantor E. M., Gusakov M. E.						
3	Deep crustal heating for realistic compositions of thermonuclear flashes	Научная статья (Q1)	10.1093/mnras/stab2415	Monthly Notices of the Royal Astronomical Society	0035-8711	Volume 507, Issue 3, pp.3860-3870, 2021	https://doi.org/10.1093/mnras/stab2415	Web of Science, Scopus	43	2, 32, 45	11/3.6	Shechechilin N. N., Gusakov M. E., Chugunov A. I.						
4	Nonequilibrium thermodynamics of accreted neutron-star crust	Научная статья (Q1)	10.1103/PhysRevD.104.L081301	Physical Review D	1550-7998	Volume 104, Issue 8, article id.L081301, 2021	https://journals.aps.org/prd/abstract/10.1103/PhysRevD.104.L081301	Web of Science, Scopus	42	2, 32, 37, 45	6/2	Gusakov M. E., Kantor E. M., Chugunov A. I.						
5	Diffusion as a leading dissipative mechanism in superconducting neutron stars	Научная статья (Q1)	10.1093/mnras/slabe078	Monthly Notices of the Royal Astronomical Society	0035-8711	Volume 506, Issue 1, pp.L74-L78, 2021	https://doi.org/10.1093/mnras/slabe078	Web of Science, Scopus	14	2, 15, 21, 23, 44	5/1.6	Kraav K. Y., Gusakov M. E., Kantor E. M.						
6	Heat release	Научная	10.1103/	Physical	1550-	Volume 103,	https://journ	Web of	41	2, 32,	11/5.5	Gusakov M. E., Chugunov A. I.						

11	Accreted Neutron Star Crust	Научная статья (Q1)	10.1103/PhysRevD.101.103020	Physical Review D	1550-7998	Volume 101, Issue 10, article id.103020, 2020	https://journals.aps.org/prd/abstract/10.1103/PhysRevD.101.103020	Web of Science, Scopus	15	2, 15, 22, 23, 31, 44	20/6.6	Dommes V. A., Gusakov M. E., Shternin P. S.
12	Bulk viscosity in neutron stars with hyperon cores	Научная статья (Q1)	10.1103/PhysRevD.100.103017	Physical Review D	1550-7998	Volume 100, Issue 10, id.103017, 2019	https://journals.aps.org/prd/abstract/10.1103/PhysRevD.100.103017	Web of Science, Scopus	13	2, 7, 13, 24, 25, 26, 44	21/5.25	Ofengeim D. D., Gusakov M. E., Haensel P., Fantin, M.
13	Force on proton vortices in superfluid neutron stars	Научная статья (Q1)	10.1093/mnras/stz657	Monthly Notices of the Royal Astronomical Society	0035-8711	Volume 485, Issue 4, p.4936-4950, 2019	https://doi.org/10.1093/mnras/stz657	Web of Science, Scopus	38	2, 29, 31, 44	15/15	Gusakov M. E.
14	Temperature-dependent oscillation modes in rotating superfluid neutron stars	Научная статья (Q1)	10.1093/mnras/sty2841	Monthly Notices of the Royal Astronomical Society	0035-8711	Volume 482, Issue 2, p.2573-2587, 2019	https://doi.org/10.1093/mnras/sty2841	Web of Science, Scopus	32	2, 24, 27, 44	15/5	Dommes V. A., Kantor E. M., Gusakov M. E.

	in accreting neutron stars	статья (Q1)	PhysRev D.103.L 101301	Review D	7998	Issue 10, article id.L101301, 2021	als.aps.org/prd/abstract/10.1103/PhysRevD.103.L101301	Science, Scopus		34, 35, 36, 37, 38, 45		Kantor E. M., Gusakov M. E., Dommes V. A.
7	Resonance suppression of the r - mode instability in superfluid neutron stars: Accounting for muons and entrainment	Научная статья (Q1)	10.1103/PhysRev D.103.023013	Physical Review D	1550-7998	Volume 103, Issue 2, article id.023013, 2021	https://journals.aps.org/prd/abstract/10.1103/PhysRevD.103.023013	Web of Science, Scopus	34	2, 24, 27, 28, 44	18/6	Kantor E. M., Gusakov M. E., Dommes V. A.
8	Magnetic field evolution time-scales in superconducting neutron stars	Научная статья (Q1)	10.1093/mnras/staa3160	Monthly Notices of the Royal Astronomical Society	0035-8711	Volume 499, Issue 3, pp.4561-4569, 2020	https://doi.org/10.1093/mnras/staa3160	Web of Science, Scopus	39	2, 29, 30, 31, 45	9/3	Gusakov M. E., Kantor E. M., Ofengeim D. D.
9	Constraining Neutron Superfluidity with R - Mode Physics	Научная статья (Q1)	10.1103/PhysRev Lett.125.151101	Physical Review Letters	0031-9007	Volume 125, Issue 15, article id.151101, 2020	https://journals.aps.org/prl/abstract/10.1103/PhysRevLett.125.151101	Web of Science, Scopus	33	2, 24, 27, 28, 44	6/2	Kantor E. M., Gusakov M. E., Dommes V. A.
10	Thermodynamically Consistent Equation of State for an	Научная статья (Q1)	10.1103/PhysRev Lett.124.191101	Physical Review Letters	0031-9007	Volume 124, Issue 19, article id.191101, 2020	https://journals.aps.org/prl/abstract/10.1103/PhysRevLett.124.191101	Web of Science, Scopus	40	2, 32, 33, 35, 45	11/5.5	Gusakov M. E., Chugunov A. I.

15	Bulk viscosity in a neutron star mantle	Научная статья (Q1)	10.1093/mnras/sty2639	Monthly Notices of the Royal Astronomical Society	0035-8711	Volume 481, Issue 4, p.4924-4930, 2018	https://doi.org/10.1093/mnras/sty2639	Web of Science, Scopus	50	2, 38, 39	7/2.3	Yakovlev D. G., Gusakov M. E., Haensel P.
16	Fast magnetic field evolution in neutron stars: The key role of magnetically induced fluid motions in the core	Научная статья (Q1)	10.1103/PhysRevD.98.043007	Physical Review D	1550-7998	Volume 98, Issue 4, id.043007, 2018	https://journals.aps.org/prd/abstract/10.1103/PhysRevD.98.043007	Web of Science, Scopus	36	2, 29, 30, 45	20/10	Ofengeim D. D., Gusakov M. E.
17	A note on the ambipolar diffusion in superfluid neutron stars	Научная статья (Q1)	10.1093/mnras/stx2682	Monthly Notices of the Royal Astronomical Society	0035-8711	Volume 473, Issue 3, p.4272-4277, 2018	https://doi.org/10.1093/mnras/stx2682	Web of Science, Scopus	37	2, 29, 30, 45	6/3	Kantor E. M., Gusakov M. E.
18	Evolution of the magnetic field in neutron stars	Научная статья (Q1)	10.1103/PhysRevD.96.103012	Physical Review D	1550-7998	Volume 96, Issue 10, id.103012, 2017	https://journals.aps.org/prd/abstract/10.1103/PhysRevD.96.103012	Web of Science, Scopus	35	2, 29, 45	18/6	Gusakov M. E., Kantor E. M., Ofengeim D. D.
19	Temperature-dependent r modes in	Научная статья (Q1)	10.1093/mnras/stx1075	Monthly Notices of the	0035-8711	Volume 469, Issue 4, p.3928-3945,	https://doi.org/10.1093/mnras/stx1075	Web of Science, Scopus	30	2, 24, 27, 44	18/9	Kantor E. M., Gusakov M. E.

	superfluid neutron stars stratified by muons			Royal Astronomical Society		2017	75						Chugunov A. I., Gusakov M. E., Kantor E. M.
20	R modes and neutron star recycling scenario	Научная статья (Q1)	10.1093/mnras/stx391	Monthly Notices of the Royal Astronomical Society	0035-8711	Volume 468, Issue 1, p.291-304, 2017	https://doi.org/10.1093/mnras/stx391	Web of Science, Scopus	31	2, 24, 28	14/4.6		
21	Vortex buoyancy in superfluid and superconducting neutron stars	Научная статья (Q1)	10.1093/mnras/slxx011	Monthly Notices of the Royal Astronomical Society	0035-8711	Volume 467, Issue 1, p.L115-L119, 2017	https://doi.org/10.1093/mnras/slxx011	Web of Science, Scopus	49	2, 29, 38, 39, 44	5/2.5		Dommes V. A., Gusakov M. E.
22	Relativistic dynamics of superfluid-superconducting mixtures in the presence of topological defects and an electromagnetic field with application to neutron stars	Научная статья (Q1)	10.1103/PhysRevD.94.083006	Physical Review D	1550-7998	Volume 94, Issue 8, id.083006, 2016	https://journals.aps.org/prd/abstract/10.1103/PhysRevD.94.083006	Web of Science, Scopus	24	2, 22, 23, 31, 44	31/15.5		Gusakov M. E., Dommes V. A.
23	Relativistic formulation of the Hall-	Научная статья (Q1)	10.1103/PhysRevD.93.064	Physical Review D	1550-7998	Volume 93, Issue 6, id.064033,	https://journals.aps.org/prd/abstract	Web of Science, Scopus	5	2, 7, 9, 22, 23, 44	19/19		Gusakov M. E.

Vinen-Bekarevich-Khalatnikov superfluid hydrodynamics	033	Научная статья (Q1)	10.1093/mnras/stv2408	Monthly Notices of the Royal Astronomical Society	0035-8711	Volume 455, Issue 3, p.2852-2870, 2016	https://doi.org/10.1093/mnras/stv2408	Web of Science, Scopus	23	2, 15, 18, 21, 44	19/19	Dommes V. A., Gusakov M. E.
24 Oscillations of superfluid hyperon stars: decoupling scheme and g-modes	033	Научная статья (Q1)	10.1093/mnras/stv2352	Monthly Notices of the Royal Astronomical Society	0035-8711	Volume 455, Issue 1, p.739-753, 2016	https://doi.org/10.1093/mnras/stv2352	Web of Science, Scopus	29	2, 24, 28, 44	15/5	Kantor E. M., Gusakov M. E., Chugunov A. I.
25 Observational signatures of neutron stars in low-mass X-ray binaries climbing a stability peak	033	Научная статья (Q1)	10.1093/mnras/slv095	Monthly Notices of the Royal Astronomical Society	0035-8711	Volume 453, Issue 1, p.L36-L40, 2015	https://doi.org/10.1093/mnras/slv095	Web of Science, Scopus	44	2, 32, 38, 41, 43, 45	5/1.6	Gusakov M. E., Kantor E. M., Reisenegger A.
26 Rotation-induced deep crustal heating of millisecond pulsars	033	Научная статья (Q1)	10.1088/2041-8205/79/1/L4	The Astrophysical Journal Letters	2041-8205	Volume 797, Issue 1, article id. L4, 2014	https://iopscience.iop.org/article/10.1088/2041-8205/797/1/L4	Web of Science, Scopus	48	2, 38, 41	5/2.5	Kantor E. M., Gusakov M. E.
27 Anti-glitches within the Standard Scenario of Pulsar Glitches	033	Научная статья (Q1)	10.1088/2041-8205/79/1/L4	The Astrophysical Journal Letters	2041-8205	Volume 797, Issue 1, article id. L4, 2014	https://iopscience.iop.org/article/10.1088/2041-8205/797/1/L4	Web of Science, Scopus	48	2, 38, 41	5/2.5	Kantor E. M., Gusakov M. E.

28	New possible class of neutron stars: hot and fast non-accreting rotators	Научная статья (Q1)	10.1093/mnras/stu1772	Monthly Notices of the Royal Astronomical Society	0035-8711	Volume 445, Issue 1, p.385-391, 2014	https://doi.org/10.1093/mnras/stu1772	Web of Science, Scopus	28	2, 24, 28, 29	7/2.3	Chugunov A. I., Gusakov M. E., Kantor E. M.
29	Explaining observations of rapidly rotating neutron stars in low-mass X-ray binaries	Научная статья (Q1)	10.1103/PhysRevD.90.063001	Physical Review D	1550-7998	Volume 90, Issue 6, id.063001, 2014	https://journals.aps.org/prd/abstract/10.1103/PhysRevD.90.063001	Web of Science, Scopus	27	2, 24, 25, 26, 27, 28, 44	27/9	Gusakov M. E., Chugunov A. I., Kantor E. M.
30	Quasinnormal modes of superfluid neutron stars	Научная статья (Q1)	10.1103/PhysRevD.90.024010	Physical Review D	1550-7998	Volume 90, Issue 2, id.024010, 2014	https://journals.aps.org/prd/abstract/10.1103/PhysRevD.90.024010	Web of Science, Scopus	20	2, 15, 18, 44	16/4	Qualtieri L., Kantor E. M., Gusakov M. E., Chugunov A. I.
31	Composition temperature-dependent g modes in superfluid neutron stars	Научная статья (Q1)	10.1093/mnras/stu061	Monthly Notices of the Royal Astronomical Society	0035-8711	Volume 442, Issue 1, p. L90–L94, 2014	https://doi.org/10.1093/mnras/stu061	Web of Science, Scopus	22	2, 15, 17, 19, 20, 21, 44	5/2.5	Kantor E. M., Gusakov M. E.
32	Instability Windows and Evolution of Rapidly Rotating	Научная статья (Q1)	10.1103/PhysRevLett.112.151101	Physical Review Letters	0031-9007	Volume 112, Issue 15, id.151101, 2014	https://journals.aps.org/prl/abstract/10.1103/PhysRevLett.112.151101	Web of Science, Scopus	26	2, 24, 26, 27, 28, 44	6/2	Gusakov M. E., Chugunov A. I., Kantor E. M.

	Neutron Stars																		
33	Physics input for modelling superfluid neutron stars with hyperon cores	Научная статья (Q1)	10.1093/mnras/st2438	Monthly Notices of the Royal Astronomical Society	0035-8711	Volume 439, Issue 1, p.318-333, 2014	https://doi.org/10.1093/mnras/st2438	Web of Science, Scopus	12	2, 7, 13, 25, 44	16/5.3	Gusakov M. E., Haensel P., Kantor E. M.							
34	Thermal g-modes and unexpected convection in superfluid neutron stars	Научная статья (Q1)	10.1103/PhysRevD.88.101302	Physical Review D	1550-7998	Volume 88, Issue 10, id. 101302, 2013	https://journals.aps.org/prd/abstract/10.1103/PhysRevD.88.101302	Web of Science, Scopus	21	2, 15, 19, 20, 21, 44	5/2.5	Gusakov M. E., Kantor E. M.							
35	Velocity-dependent energy gaps and dynamics of superfluid neutron stars	Научная статья (Q1)	10.1093/mnras/sts007	Monthly Notices of the Royal Astronomical Society	0035-8711	Volume 428, Issue 1, p.L26-L30, 2013	https://doi.org/10.1093/mnras/sts007	Web of Science, Scopus	47	2, 38, 39, 40, 41, 45	5/2.5	Gusakov M. E., Kantor E. M.							
36	Dissipation in relativistic superfluid neutron stars	Научная статья (Q1)	10.1093/mnras/sts129	Monthly Notices of the Royal Astronomical Society	0035-8711	Volume 428, Issue 2, p.1518-1536, 2013	https://doi.org/10.1093/mnras/sts129	Web of Science, Scopus	19	2, 15, 16, 17, 18, 19, 26, 44	19/4.75	Gusakov M. E., Kantor E. M., Chugunov A. I., Gualtieri L.							

Подтверждаю, что все основные научные результаты моей диссертации «*Динамические процессы в нейтронных звездах*» опубликованы в вышеприведенных 36 публикациях, в том числе: в рецензируемых научных изданиях из перечня, утвержденного Минобрнауки РФ - «36» публикаций; в изданиях, индексируемых в наукометрических базах данных Web of Science и Scopus - «36» публикаций.

Вышеуказанные публикации прилагаются на электронном носителе.



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