

Список публикаций:

- 1) First Search for Bosonic Superweakly Interacting Massive Particles with Masses up to 1 MeV/c² with GERDA (2020) *Physical Review Letters*, 125 (1).
- 2) Modeling of GERDA Phase II data (2020) *Journal of High Energy Physics*, 2020.
- 3) Searching for neutrinoless double beta decay with GERDA (2020) *Journal of Physics: Conference Series*, 1342 (1).
- 4) Characterization of 30 ⁷⁶Ge enriched Broad Energy Ge detectors for GERDA Phase II (2019) *European Physical Journal C*, 79 (11).
- 5) Probing Majorana neutrinos with double-β decay (2019) *Science*, 365 (6460), pp. 1445-1448.
- 6) Industrial Reactor Power Monitoring Using Antineutrino Counts in the DANSS Detector (2019) *Physics of Atomic Nuclei*, 82 (5), pp. 415-424.
- 7) New Types of Germanium Detectors for the Search of Neutrinoless Double Beta Decay (2019) *Bulletin of the Russian Academy of Sciences: Physics*, 83 (4), pp. 513-517.
- 8) Search for sterile neutrinos at the DANSS experiment (2018) *Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics*, 787, pp. 56-63.
- 9) Upgrade for Phase II of the Gerda experiment (2018) *European Physical Journal C*, 78 (5).
- 10) GERDA results and the future perspectives for the neutrinoless double beta decay search using ⁷⁶Ge (2018) *International Journal of Modern Physics A*, 33 (9).
- 11) Improved Limit on Neutrinoless Double- β Decay of Ge-76 from GERDA Phase II (2018) *Physical Review Letters*, 120 (13).
- 12) Searches for sterile neutrinos at the DANSS experiment (2018) *Proceedings of Science*, 337.
- 13) Neutrino Physics at Kalinin Nuclear Power Plant: 2002 – 2017 (2017) *Journal of Physics: Conference Series*, 934 (1).
- 14) Ordinary muon capture (OMC) studies by means of γ –spectroscopy (2017) *AIP Conference Proceedings*, 1894.
- 15) The large enriched germanium experiment for neutrinoless double beta decay (LEGEND) (2017) *AIP Conference Proceedings*, 1894.
- 16) Search for neutrinoless double beta decay with GERDA phase II (2017) *AIP Conference Proceedings*, 1894.
- 17) First results from GERDA Phase II (2017) *Journal of Physics: Conference Series*, 888 (1).
- 18) Active background suppression with the liquid argon scintillation veto of GERDA Phase II (2017) *Journal of Physics: Conference Series*, 888 (1).

- 19) Study of the GERDA Phase II background spectrum (2017) Journal of Physics: Conference Series, 888 (1).
- 20) Limits on uranium and thorium bulk content in GERDA Phase I detectors (2017) Astroparticle Physics, 91, pp. 15-21.
- 21) 68 Международная научная конференция по ядерной спектроскопии и структуре атомного ядра «Ядро 2018». Фундаментальные проблемы ядерной физики, атомной энергетики и ядерной технологии», Воронежский государственный университет, физический факультет, Воронеж, Россия, Сборник тезисов докладов.
- 22) Румянцева Н.С., Гусев К.Н. // Эксперименты по поиску двойного безнейтринного бета-распада (2019) Вестник Международного университета природы, общества и человека «Дубна». Т. 1 (42). С. 32-40.
- 23) VII ежегодный всероссийский молодёжный научный форум OpenScience2019, сборник тезисов докладов.
- 24) BOOK OF ABSTRACTS Fundamental problems of nuclear physics, atomic power engineering and nuclear technologies(LXII meeting on nuclear spectroscopy and nuclear structure), Muon capture in ^{12}C , Rumyantseva N.S., 2012, p.136;
- 25) Сборник трудов, XVI научная конференция молодых учёных и специалистов ОИЯИ г. Дубна, 2012, Ядерный мю-захват в C-12 , Румянцева Н.С.,2012, с.148;
- 26) Сборник аннотаций докладов, XVII научная конференция молодых учёных и специалистов ОИЯИ г. Дубна, 2013, Дискриминация по форме импульса в эксперименте по поиску двойного бета-распада GERDA, Румянцева Н.С.,2013, с.34;
- 27) PRL-111-122503(2013), Results on neutrinoless double b-decay of Ge-76 from Phase I of the GERDA experiment, N.Rumyantseva, GERDA Collaboration.
- 28) Eur. Phys. J. C - 73:2583(2013), Pulse shape discrimination for Gerda Phase I data, N.Rumyantseva, GERDA Collaboration.
- 29) Письма в ЭЧАЯ, Том 11, №4(188), 2014, DANSSino: a pilot version of the DANSS neutrino detector, Rumyantseva N. et al., p. 735;
- 30) arXiv:1410.0853, Production, characterization and operation of Ge-76 enriched BEGe detectors in GERDA, N.Rumyantseva, GERDA Collaboration, 2014;
- 31) Сборник аннотаций докладов, XVIII научная конференция молодых учёных и специалистов ОИЯИ г. Дубна, 2014, Optimization of PSD method for BEGe detectors in GERDA experiment, Румянцева Н.С.,2014, с.57;
- 32) Eur.Phys.J. C 75 (2015) 2, 39, Production, characterization and operation of ^{76}Ge enriched BEGe detectors in GERDA, N.Rumyantseva, GERDA Collaboration;
- 33) arXiv:1501.02345, Results on $\beta\beta$ decay with emission of two neutrinos or Majorons in ^{76}Ge from GERDA Phase I, N.Rumyantseva, GERDA Collaboration, 2015.

- 34) The large enriched germanium experiment for neutrinoless double beta decay (LEGEND). N.Rumyantseva, GERDA Collaboration, 2017.
- 35) Upgrade of the GERDA experiment. N.Rumyantseva, GERDA Collaboration, 2014.
- 36) Limit on the radiative neutrinoless double electron capture of Ar36 from GERDA Phase I. European Physical Journal C 76, no. 12. N.Rumyantseva, GERDA Collaboration, 2016.
- 37) Search of neutrinoless double beta decay with the GERDA experiment. Nuclear and Particle Physics Proceedings 273-275, 1876-1882. N.Rumyantseva, GERDA Collaboration, 2016.
- 38) Gerda Collaboration, M. Agostini, M. Allardt, A. M. Bakalyarov, M. Balata, I. Barabanov, N. Barros, et al. 2015. $2\nu\beta\beta$ decay of Ge76 into excited states with GERDA phase i. Journal of Physics G: Nuclear and Particle Physics 42, no. 11.
- 39) GERDA Collaboration, M. Agostini, M. Allardt, A. M. Bakalyarov, M. Balata, I. Barabanov, N. Barros, et al. 2015. Improvement of the energy resolution via an optimized digital signal processing in GERDA Phase I. European Physical Journal C 75, no. 6.
- 40) GERDA Collaboration, M. Agostini, M. Allardt, A. M. Bakalyarov, M. Balata, I. Barabanov, N. Barros, et al. 2015. Results on $\beta\beta$ decay with emission of two neutrinos or majorons in Ge76 from GERDA Phase I: GERDA collaboration. European Physical Journal C75, no. 9.
- 41) Klimenko, A. A. and N. S. Rumyantseva. 2017. Limits of majorana neutrino mass from combined analysis of data from ^{76}Ge and ^{136}Xe neutrinoless double beta decay experiments. Physics of Particles and Nuclei 48, no. 1: 21-26.

