



 <p>Нурлан Канат <i>PhD доктор, ст. преподаватель кафедры ядерной физики, новых материалов и технологий ЕНУ им. Л.Н.Гумилева</i></p> <p>Контактные данные: nurlan.qanat@gmail.com</p>	<p>Ученая степень и звание, научная школа: 2011-2016 гг. – КазНУ им. аль-Фараби, г. Алматы 2018-2021 гг. – ЕНУ им. Л.Н. Гумилева, г. Астана</p> <p>Научные интересы: Физика элементарных частиц. Низкоэнергетическая физика адронов.</p> <p>Научные гранты: Руководитель проекта по теме «Описание распадов тау-лептона и процессов электрон-позитронной аннигиляции в рамках $U(3) \times U(3)$ киральной модели НИЛ» на 2022-2024гг.</p>
<p>Профессиональный опыт: С 2023 года – старший преподаватель международной кафедры ядерной физики, новых материалов и технологий физико-технического факультета Евразийского Национального Университета им. Л.Н. Гумилева, г. Астана</p>	<p>Читаемые курсы: Основы квантовой теории поля</p> <p>Публикации в рецензируемых журналах: 1. М.К. Volkov, K. Nurlan and A.A. Pivovarov, On the decay widths of radially excited scalar meson $K^*(1430)$ in view of new experimental data, Eur. Phys. J. A 59 (2023) no.4, 79 [IF 3.13] 2. М.К. Volkov and K. Nurlan, τ Lepton Decays with Production of Strange Scalar Mesons $K^*(700)$ and $K^*(1430)$ in the Extended Nambu-Jona-Lasinio Model, JETP Lett. 117 (2023) no.5, 321-327 [IF 1.34] 3. М.К. Volkov and K.Nurlan, $e^+e^- \rightarrow a_1\pi$, $e^+e^- \rightarrow K_1(1270)K$ and $e^+e^- \rightarrow K_1(1400)K$ Processes within the Chiral Quark Nambu-Jona-Lasinio Model, JETP Letters 116 (2022) no.4, 193-198. [IF 1.40] 4. М.К. Volkov, A.A. Pivovarov and K. Nurlan, The decays $\tau \rightarrow a_1\pi\nu_\tau$, $\tau \rightarrow K_1\pi\nu_\tau$ and $\tau \rightarrow K_1K\nu_\tau$ in the extended $U(3) \times U(3)$ chiral NJL model, Modern Physics Letters A 37 (2022) no.19, 2250118. [IF 1.59] 5. М.К. Volkov, A.A. Pivovarov and K. Nurlan, Low-Energy Interactions of Mesons with Participation of the First Radially Excited States in $U(3) \times U(3)$ NJL Model, Symmetry 14 (2022) no.2, 308. [IF 2.94] 6. М.К. Volkov, A.A. Pivovarov and K. Nurlan, The decays $\eta' \rightarrow \rho\pi$ and $\rho \rightarrow \eta\pi$ in the chiral NJL model, Modern Physics Letters A (2022), arXiv:2207.14058 [hep-ph]. [IF 1.59] 7. М.К. Volkov and K. Nurlan, Semileptonic decays of ρ, ω, ϕ, η and η' mesons in ground and first radially excited states in the $U(3) \times U(3)$ NJL model, International Journal of Theoretical Physics (2022) arXiv:2203.11311 [hep-ph] [IF 1.30] 8. М.К. Volkov, A.A. Osipov, A.A. Pivovarov and K. Nurlan, $1/N_C$ approximation and universality of vector mesons, Physical Review D 104 (2021) no.3, 034021. [IF 5.29] 9. М.К. Volkov and K. Nurlan, Semileptonic decays of vector mesons $\rho, \omega, \phi \rightarrow \pi[e^+e^-, \mu^+\mu^-]$ in a chiral NJL model, Phys. Part. Nucl. Lett. 18 (2021) no.2, 148-152. [IF 0.74] 10. М.К. Volkov, K. Nurlan and A.A. Pivovarov, The second-class current decays $\tau \rightarrow \pi\eta(\eta')\nu_\tau$ in the NJL model including the interaction of mesons in the final state, International Journal of Modern Physics A (2021) Vol. 36, No. 27, 2150209. [IF 1.38] 11. A. Issadykov, Zh. Tyulemissov, and K. Nurlan, Nonleptonic Decays of B_C Meson, AIP Conference Proceedings (2021) V. 2377. P. 090003. [IF 0.4]</p>
<p>Награды и премии: Государственная научная стипендия для талантливых молодых ученых на 2022-2023 г. Государственная молодежная премия «Дарын» в номинации «наука» в 2019 г. Премия ОИЯИ в области теоретической физики в 2018 г. Именная стипендия им. Д.И. Блохинцева ЛТФ, ОИЯИ за 2022 г.</p>	

	<p>12. M.K. Volkov, K. Nurlan, and A.A. Pivovarov, The ω-ϕ Mixing and Processes $\varphi \rightarrow \pi^0[\pi^+\pi^-, l^+l^-], e^+e^- \rightarrow \varphi\pi$, AIP Conference Proceedings (2021) V. 2377. P. 090008. [IF 0.4]</p> <p>13. Zh.Tyulemissov, A. Issadykov, and K. Nurlan, Weak Decays of Heavy Baryons, AIP Conference Proceedings (2021) V. 2377. P. 090007. [IF 0.4]</p> <p>14. M. K. Volkov, A. A. Pivovarov and K. Nurlan, The decay $\tau \rightarrow K^*(892)\eta\nu_\tau$ in the NJL model, Nuclear Physics A 1000 (2020) 121810. [IF 1.68]</p> <p>15. M. K. Volkov, A. A. Pivovarov and K. Nurlan, The decay $\tau \rightarrow K^*(892)K\nu_\tau$ in the extended NJL model, International Journal of Modern Physics A 35 (2020) no.06, 2050035. [IF 1.38]</p> <p>16. M. K. Volkov, A. A. Pivovarov and K. Nurlan, On the mixing angle of the vector mesons $\omega(782)$ and $\phi(1020)$, Modern Physics Letters A 35 (2020) no.24, 2050200. [IF 2.06]</p> <p>17. M. K. Volkov, A. B. Arbuzov, K. Nurlan and A. A. Pivovarov, $\tau \rightarrow K^*\pi\nu$ and $\tau \rightarrow [\varphi, \omega]K\nu$ Decays in the Extended Nambu–Jona-Lasinio Model, Phys. Part. Nucl. 51 (2020) no.4, 720 [Fiz. Elem. Chast. Atom. Yadra 51 (2020) no.4]. [IF 0.48]</p> <p>18. M. K. Volkov, A. A. Pivovarov and K. Nurlan, The decays $\tau \rightarrow [\omega(782), \phi(1020)]K\nu$ in the extended NJL model, European Physical Journal A 55, no. 9, 165 (2019). [IF 3.04]</p> <p>19. M. K. Volkov, K. Nurlan and A. A. Pivovarov, The decays $\tau \rightarrow (K, K(1460))\nu$ and the value of the weak decay constants FK and FK' in the extended NJL model, International Journal of Modern Physics A 34, no. 24, 1950137 (2019). [IF 1.38]</p> <p>20. A. Arbuzov, A. Pivovarov, K. Nurlan and M. Volkov, Meson production in e^+e^- annihilation and tau lepton decays within extended NJL model, EPJ Web Conf. 212, 03007 (2019).</p> <p>21. M. K. Volkov, K. Nurlan and A. A. Pivovarov, Low-energy process $e^+e^- \rightarrow K^+K^-$ in the extended Nambu–Jona-Lasinio model, Physical Review C 98, no. 1, 015206 (2018). [IF 3.29]</p> <p>22. M. K. Volkov, K. Nurlan and A. A. Pivovarov, Production $\rho(770)\eta$ meson pair in the decays $\rho(1450) \rightarrow \rho(770)\eta$ and $\tau \rightarrow \rho(770)\eta\nu$ and in the process $e^+e^- \rightarrow \rho(770)\eta$ in the extended Nambu–Jona-Lasinio model, Journal of Experimental and Theoretical Physics Letters 106, no. 12, 771 (2017). [IF 1.53]</p> <p>23. M. K. Volkov and K. Nurlan, The decays $\tau \rightarrow \nu (K^*(892), K^*(1410), K_1(1270), K_1(1650), a_1(1260), a_1(1640))$ in the extended Nambu-Jona-Lasinio model, Physics of Particles and Nuclei Letters 14, no. 5, 677 (2017). [IF 0.5]</p>
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	<p>15. M. K. Volkov, A. A. Pivovarov and K. Nurlan, The decay $\tau \rightarrow K^*(892)K\nu_\tau$ in the extended NJL model, International Journal of Modern Physics A 35 (2020) no.06, 2050035. [IF 1.38]</p> <p>16. M. K. Volkov, A. A. Pivovarov and K. Nurlan, On the mixing angle of the vector mesons $\omega(782)$ and $\phi(1020)$, Modern Physics Letters A 35 (2020) no.24, 2050200. [IF 2.06]</p> <p>17. M. K. Volkov, A. B. Arbuzov, K. Nurlan and A. A. Pivovarov, $\tau \rightarrow K^*\pi\nu$ and $\tau \rightarrow [\phi, \omega]K\nu$ Decays in the Extended Nambu–Jona-Lasinio Model, Phys. Part. Nucl. 51 (2020) no.4, 720 [Fiz. Elem. Chast. Atom. Yadra 51 (2020) no.4]. [IF 0.48]</p> <p>18. M. K. Volkov, A. A. Pivovarov and K. Nurlan, The decays $\tau \rightarrow [\omega(782), \phi(1020)]K\nu$ in the extended NJL model, European Physical Journal A 55, no. 9, 165 (2019). [IF 3.04]</p> <p>19. M. K. Volkov, K. Nurlan and A. A. Pivovarov, The decays $\tau \rightarrow (K, K(1460))\nu$ and the value of the weak decay constants FK and FK' in the extended NJL model, International Journal of Modern Physics A 34, no. 24, 1950137 (2019). [IF 1.38]</p> <p>20. A. Arbuzov, A. Pivovarov, K. Nurlan and M. Volkov, Meson production in e^+e^- annihilation and tau lepton decays within extended NJL model, EPJ Web Conf. 212, 03007 (2019).</p> <p>21. M. K. Volkov, K. Nurlan and A. A. Pivovarov, Low-energy process $e^+e^- \rightarrow K^+K^-$ in the extended Nambu–Jona-Lasinio model, Physical Review C 98, no. 1, 015206 (2018). [IF 3.29]</p> <p>22. M. K. Volkov, K. Nurlan and A. A. Pivovarov, Production $\rho(770)\eta$ meson pair in the decays $\rho(1450) \rightarrow \rho(770)\eta$ and $\tau \rightarrow \rho(770)\eta\nu$ and in the process $e^+e^- \rightarrow \rho(770)\eta$ in the extended Nambu–Jona-Lasinio model, Journal of Experimental and Theoretical Physics Letters 106, no. 12, 771 (2017). [IF 1.53]</p> <p>23. M. K. Volkov and K. Nurlan, The decays $\tau \rightarrow \nu (K^*(892), K^*(1410), K_1(1270), K_1(1650), a_1(1260), a_1(1640))$ in the extended Nambu-Jona-Lasinio model, Physics of Particles and Nuclei Letters 14, no. 5, 677 (2017). [IF 0.5]</p>
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 <p>Нурлан Қанат <i>Л.Н.Гумилев атындағы Еуразия ұлттық университетінің ядролық физика, жаңа материалдар және технологиялар халықаралық кафедрасының PhD доктор, аға оқытушы.</i> Байланыс мәліметі: nurlan.qanat@gmail.com</p>	<p>Ғылыми атағы және дәрежесі, ғылыми мектебі: 2011-2016 жж – әл-Фараби атындағы ҚазҰУ, Алматы қ. 2018-2021 жж. – Л.Н. Гумилев атындағы ЕҰУ, Астана қ.</p>
	<p>Ғылыми қызығушылығы: Элементар бөлшектер физикасы Төменгі энергиялы адрондар физикасы</p>
	<p>Ғылыми гранттар: 2022-2024 жылдарға арналған «U(3)xU(3) НИЛ киральды моделі шеңберіндегі тау-лептонды ыдырау мен электрон-позитронды аннигиляция процесстерін сипаттау» тақырыбындағы жоба жетекшісі.</p>

<p>Кәсіби тәжірибесі: 2023 жылдан бастап Л.Н.Гумилев атындағы Еуразия ұлттық университетінің ядролық физика, жаңа материалдар және технологиялар халықаралық кафедрасының аға оқытушысы, Астана қ.</p>	<p>Оқу курсы: Кванттық өрістер теориясының негіздері</p>
<p>Марапаттары мен жүлделері: 2019 ж. «Дарын» мемлекеттік жастар сыйлығы («ҒЫЛЫМ» номинациясы бойынша) Дарынды жас ғалымдарға арналған 2022-2023 жылдарға арналған мемлекеттік ғылыми стипендия 2018 жылы теориялық физика бойынша БЯЗИ (JINR) сыйлығы 2022 жылғы БЯЗИ (JINR) Д.И. Блохинцев атындағы стипендиясы</p>	<p>Рецензияланған журналдардағы жарияланымдар: 1. M.K. Volkov, K. Nurlan and A.A. Pivovarov, On the decay widths of radially excited scalar meson $K^*(1430)$ in view of new experimental data, Eur. Phys. J. A 59 (2023) no.4, 79 [IF 3.13] 2. M.K. Volkov and K. Nurlan, τ Lepton Decays with Production of Strange Scalar Mesons $K^*(700)$ and $K^*(1430)$ in the Extended Nambu-Jona-Lasinio Model, JETP Lett. 117 (2023) no.5, 321-327 [IF 1.34] 3. M.K. Volkov and K.Nurlan, $e^+e^- \rightarrow a_1\pi$, $e^+e^- \rightarrow K_1(1270)K$ and $e^+e^- \rightarrow K_1(1400)K$ Processes within the Chiral Quark Nambu-Jona-Lasinio Model, JETP Letters 116 (2022) no.4, 193-198. [IF 1.40] 4. M.K. Volkov, A.A. Pivovarov and K. Nurlan, The decays $\tau \rightarrow a_1\pi\nu_\tau$, $\tau \rightarrow K_1\pi\nu_\tau$ and $\tau \rightarrow K_1K\nu_\tau$ in the extended $U(3) \times U(3)$ chiral NJL model, Modern Physics Letters A 37 (2022) no.19, 2250118. [IF 1.59] 5. M.K. Volkov, A.A. Pivovarov and K. Nurlan, Low-Energy Interactions of Mesons with Participation of the First Radially Excited States in $U(3) \times U(3)$ NJL Model, Symmetry 14 (2022) no.2, 308. [IF 2.94] 6. M.K. Volkov, A.A. Pivovarov and K. Nurlan, The decays $\eta' \rightarrow \rho\pi$ and $\rho \rightarrow \eta\pi$ in the chiral NJL model, Modern Physics Letters A (2022), arXiv:2207.14058 [hep-ph]. [IF 1.59] 7. M.K. Volkov and K. Nurlan, Semileptonic decays of ρ, ω, ϕ, η and η' mesons in ground and first radially excited states in the $U(3) \times U(3)$ NJL model, International Journal of Theoretical Physics (2022) arXiv:2203.11311 [hep-ph] [IF 1.30] 8. M.K. Volkov, A.A. Osipov, A.A. Pivovarov and K. Nurlan, $1/N_C$ approximation and universality of vector mesons, Physical Review D 104 (2021) no.3, 034021. [IF 5.29] 9. M.K. Volkov and K. Nurlan, Semileptonic decays of vector mesons $\rho, \omega, \phi \rightarrow \pi[e^+e^-, \mu^+\mu^-]$ in a chiral NJL model, Phys. Part. Nucl. Lett. 18 (2021) no.2, 148-152. [IF 0.74] 10. M.K. Volkov, K. Nurlan and A.A. Pivovarov, The second-class current decays $\tau \rightarrow \pi\eta(\eta')\nu_\tau$ in the NJL model including the interaction of mesons in the final state, International Journal of Modern Physics A (2021) Vol. 36, No. 27, 2150209. [IF 1.38] 11. A. Issadykov, Zh. Tyulemissov, and K. Nurlan, Nonleptonic Decays of B_C Meson, AIP Conference Proceedings (2021) V. 2377. P. 090003. [IF 0.4] 12. M.K. Volkov, K. Nurlan, and A.A. Pivovarov, The ω-ϕ Mixing and Processes $\phi \rightarrow \pi^0[\pi^+\pi^-, l^+l^-]$, $e^+e^- \rightarrow \phi\pi$, AIP Conference Proceedings (2021) V. 2377. P. 090008. [IF 0.4] 13. Zh.Tyulemissov, A. Issadykov, and K. Nurlan, Weak Decays of Heavy Baryons, AIP Conference Proceedings (2021) V. 2377. P. 090007. [IF 0.4] 14. M. K. Volkov, A. A. Pivovarov and K. Nurlan, The decay $\tau \rightarrow K^*(892)\eta\nu_\tau$ in the NJL model, Nuclear Physics A 1000 (2020) 121810. [IF 1.68] 15. M. K. Volkov, A. A. Pivovarov and K. Nurlan, The decay $\tau \rightarrow K^*(892)K\nu_\tau$ in the extended NJL model, International Journal of Modern Physics A 35 (2020) no.06, 2050035. [IF 1.38] 16. M. K. Volkov, A. A. Pivovarov and K. Nurlan, On the mixing angle of the vector mesons $\omega(782)$ and $\phi(1020)$, Modern Physics Letters A 35 (2020) no.24, 2050200. [IF 2.06] 17. M. K. Volkov, A. B. Arbuzov, K. Nurlan and A. A. Pivovarov, $\tau \rightarrow K^*\pi\nu$ and $\tau \rightarrow [\phi, \omega]K\nu$ Decays in the Extended Nambu-Jona-Lasinio Model, Phys. Part. Nucl. 51 (2020) no.4, 720 [Fiz. Elem. Chast. Atom. Yadra 51 (2020) no.4]. [IF 0.48]</p>

18. M. K. Volkov, A. A. Pivovarov and K. Nurlan, The decays $\tau \rightarrow [\omega(782), \phi(1020)]K\nu$ in the extended NJL model, *European Physical Journal A* 55, no. 9, 165 (2019). [**IF 3.04**]
19. M. K. Volkov, K. Nurlan and A. A. Pivovarov, The decays $\tau \rightarrow (K, K(1460))\nu$ and the value of the weak decay constants F_K and $F_{K'}$ in the extended NJL model, *International Journal of Modern Physics A* 34, no. 24, 1950137 (2019). [**IF 1.38**]
20. A. Arbuzov, A. Pivovarov, K. Nurlan and M. Volkov, Meson production in e^+e^- annihilation and tau lepton decays within extended NJL model, *EPJ Web Conf.* 212, 03007 (2019).
21. M. K. Volkov, K. Nurlan and A. A. Pivovarov, Low-energy process $e^+e^- \rightarrow K^+K^-$ in the extended Nambu–Jona-Lasinio model, *Physical Review C* 98, no. 1, 015206 (2018). [**IF 3.29**]
22. M. K. Volkov, K. Nurlan and A. A. Pivovarov, Production $\rho(770)\eta$ meson pair in the decays $\rho(1450) \rightarrow \rho(770)\eta$ and $\tau \rightarrow \rho(770)\eta\nu$ and in the process $e^+e^- \rightarrow \rho(770)\eta$ in the extended Nambu–Jona-Lasinio model, *Journal of Experimental and Theoretical Physics Letters* 106, no. 12, 771 (2017). [**IF 1.53**]
23. M. K. Volkov and K. Nurlan, The decays $\tau \rightarrow \nu (K^*(892), K^*(1410), K_1(1270), K_1(1650), a_1(1260), a_1(1640))$ in the extended Nambu–Jona-Lasinio model, *Physics of Particles and Nuclei Letters* 14, no. 5, 677 (2017). [**IF 0.5**]