

CURRICULUM VITAE

Новиков Кирилл Владимирович

Дата рождения: 25 июля 1988, г. Ярцево, Смоленская обл., Россия
Национальность: РФ
Занимаемая должность: младший научный сотрудник
Адрес: ЛЯР ОИЯИ, 141980 г. Дубна, ул Жолио-Кюри, д. 6
Тел.: +7 (49621) 62167
e-mail: novikov.kirill88@mail.ru

<u>Образование и профессиональная деятельность:</u>	
сентябрь 2005 – июнь 2009	студент, Международный университет природы, общества и человека “Дубна”, кафедра ядерной физики, Диплом бакалавра: “Реакции глубокоэластичных передач как метод получения нейтроноизбыточных элементов”.
сентябрь 2009 – июнь 2011	студент, Международный университет природы, общества и человека “Дубна”, кафедра ядерной физики, Диплом магистра: “Получение нейтроноизбыточных ядер вблизи замкнутой нейтронной оболочки N=126”
октябрь 2011 – октябрь 2015	аспирант учебно-научного центра ОИЯИ, специальность: 01.04. 16 – физика атомного ядра и элементарных частиц.
с 2019	преподаватель физ. практикума «Электричество и магнетизм» Университета «Дубна» ФЕИН
март 2023	кандидат физ.-мат. наук. Тема диссертации: «Образование и распад ядерных систем с Z=114, 120 в реакциях с тяжелыми ионами»
август 2009 – апрель 2012	инженер сектора №5, ЛЯР ОИЯИ
апреля 2012-ноябрь 2023	младший научный сотрудник сектора №5, ЛЯР ОИЯИ
ноябрь 2023 – январь 2024	научный сотрудник сектора №5, ЛЯР ОИЯИ
с 2024	начальник группы №3 установка КОРСЕТ сектора №5 ЛЯР ОИЯИ
<u>Научные интересы:</u>	
Ядерная физика:	Слияние, деление, квазиделение атомных ядер. Реакции глубокоэластичных передач. Реакции с тяжелыми ионами. Реакции многонуклонных передач.
Научные премии:	Первая премия Объединенного Института Ядерных Исследований за работу «Исследование вероятности образования и распада сверхтяжелых систем в зависимости от кулоновского фактора реакции Z_1Z_2 при энергиях вблизи кулоновского барьера» в 2021 году.

Список публикаций

1. E.M.Kozulin, G.N.Knyazheva, S.N.Dmitriev, I.M.Itkis, M.G.Itkis, T.A.Loktev, K.V.Novikov, A.N.Baranov, W.H.Trzaska, E.Vardaci, S.Heinz, O.Beliuskina, S.V.Khlebnikov. Shell effects in damped collisions of ^{88}Sr with ^{176}Yb at the Coulomb barrier energy. PHYSICAL REVIEW C 89, 014614 (2014).
2. E.M. Kozulin, G.N.Knyazheva, I.M.Itkis, E.M.Gazeeva, N.I.Kozulina, T.A.Loktev, K.V.Novikov, I.Harca. Fusion-fission and quasi-fission of superheavy systems with $Z=110-116$ formed in the ^{48}Ca induced reactions. International Conference on Dark Matter, Hadron Physics and Fusion Physics. September 24-26, 2014, Messina (Italy), invited talk.
3. K. Novikov, E. M. Kozulin, I. M. Harca, S. Dmitriev, A. Flueras, P.Greenlees, F.Hanappe, S.V.Khlebnikov, T. Loktev, J. Maurer, A. Di Nitto, J. Pakarinen, P. Ruotsalainen, M. Sandzelius, J.Sorri, M. Sin, W. H. Trzaska, E. Vardaci, V. I. Zagrebaev. Investigation of osmium neutron-rich isotopes in the reaction $^{136}\text{Xe}+^{208}\text{Pb}$. International Symposium Entrance Channel Effect on the Reaction Mechanism in Heavy Ion Collisions, Messina (Italy) - November 6-8, 2013, ECHIC2013, Journal of Physics: Conference Series 515 (2014) 012016. (doi:10.1088/1742-6596/515/1/012010).
4. E.M.Kozulin, G.N.Knyazheva, I.M.Itkis, E.M.Gazeeva, N.I.Kozulina, T.A.Loktev, K.V.Novikov, I.Harca. Shell effects in fission, quasi-fission and in multi-nucleon transfer reactions. International Symposium Entrance Channel Effect on the Reaction Mechanism in Heavy Ion Collisions, Messina (Italy) - November 6-8, 2013. ECHIC2013. Journal of Physics: Conference Series 515 (2014) 012010 (doi:10.1088/1742-6596/515/1/012010).
5. I.M. Harca, E.M. Kozulin, A. Bogachev, S. Dmitriev, J. Itkis, G. Knyazheva, T. Loktev, K. Novikov E. Vardaci F. Azaiez, A. Gottardo, I. Matea, D. Verney, W.H. Trzaska, G. Chubarian, F. Hanappe, J. Piot and C. Schmitt. Investigation of Shell Effects in the Fusion-Fission process in the reaction $^{34}\text{S} + ^{186}\text{W}$ near the Interaction Barrier. Proceedings o the International Symposium on Exotic Nuclei (EXON2014), 8-13 September 2014, Kaliningrad, eds. Yu.E Penionzhkevich, Yu.G.Sobolev. World Scientific Publishing, p.699-706, 2015. ISBN 978-981-4699-45-7.
6. I.M.Harca, S.Dmitriev, I.Itkis, E.M.Kozulin, G.Knyazheva, T.Loktev, K.Novikov, F.Azaiez, A.Gottardo, I.Matea, D.Verney, G.Chubarian, F.Hanappe, J.Piot, C.Schmitt, W.H.Trzaska and E.Vardaci. The Fusion-Fission process in the reaction $^{34}\text{S} + ^{186}\text{W}$ near the interaction barrier. AIP Conference Proceedings. CARPATHIAN SUMMER SCHOOL OF PHYSICS 2014, Exotic Nuclei and Nuclear/Particle Astrophysics (V), eds.L.Trache et al. Sinaia, Romania, 13-26 July, 2014, AIP Conference Proceedings 1645, 344 (2015); doi: 10.1063/1.4909598.
7. E.M. Kozulin, I.M. Harca, I.M. Itkis, G.N. Knyazheva, K.V. Novikov, V.I. Zagrebaev, L. Corradi, E. Fioretto, F. Galtarossa, D. Montanari, A.M. Stefanini, G. Montagnoli, F. Scarlassara, E. Strano, T. Mijatović, S. Szilner, E. Vardaci, D. Quero, D. Ackermann, J. Piot,

G. Chubarian. Formation Cross Section of Neutron Rich Nuclei in the Region of the Closed Neutron Shell $N=126$. LNL Annual Report 2014, INFN-LNL Report 241 (2015), p.42-43, ISSN 1828-8561 (web version), Internet version available at URL: <http://www.lnl.infn.it/~annrep>.

8. E.M. Kozulin, G.N. Knyazheva, K.V. Novikov, I.M. Itkis, M.G. Itkis, S.N. Dmitriev, Yu.Ts. Oganessian, A.A. Bogachev, N.I. Kozulina, I. Harca, W.H. Trzaska, T.K. Ghosh. Fission and quasifission of composite systems with $Z=108-120$: transition from the reactions with S and Ca ions to Ti and Ni. PHYSICAL REVIEW C 94, 054613 (2016).
9. E.M. Kozulin, E. Vardaci, I.M. Harca, C. Schmitt, I. Itkis, G. Knyazheva, K. Novikov, A. Bogachev, S.Dmitriev, T. Loktev, F. Azaiez, I. Matea, D. Verney, A. Gottardo, O. Dorvaux, J. Piot, G. Chubarian, W.H. Trzaska, F. Hanappe, C. Borcea, S. Calinescu, and C. Petrone. Challenging fission dynamics around the barrier: The case of $^{34}\text{S} + ^{186}\text{W}$. European Physical Journal A (EPJ A) (2016) 52: 293 (p.1-8). (DOI 10.1140/epja/i2016-16293-8).
10. K.Novikov, I.M.Harca, E.M.Kozulin, S.Dmitriev, J.Itkis, G.Knyazheva, T.Loktev, L.Corradi, J.Valiente-Dobon, E.Fioretto, D.Montanari, A.M.Stefanini, E.Vardaci, D.Quero, G.Montagnoli, F.Scarlassara, E.Strano, G.Pollarolo, J.Piot, T.Mijatović, S.Szilner, D.Ackermann, G.Chubarian and W.H.Trzaska. The study of neutron-rich nuclei production in the region of the closed shell $N=126$ in the multi-nucleon transfer reaction $^{136}\text{Xe}+^{208}\text{Pb}$. 8th European Summer School on Experimental Nuclear Astrophysics (Santa Tecla School). IOP Publishing Journal of Physics: Conference Series 703 (2016) 012020 doi:10.1088/1742-6596/703/1/012020.
11. I.M. Harca, E. Kozulin, E.Vardaci, M. Ashaduzzaman, C. Borcea, A.Bracco, S. Brambilla, S. Calinescu, F. Camera, M.Ciemala, B. DeCanditiis, O. Dorvaux, I. Itkis, V.V. Kirakosyan, G. Knyazheva, N. Kozulina, I.V. Kolesov, G. La Rana, A. Maj, I. Matea, K. Novikov, C. Petrone, A. Pulcini, D. Quero, P. Rath, E. Saveleva, C. Schmitt, G. Sposito, O. Stezowski, W.H. Trzaska, J.Wilson. THE Reaction $^{32}\text{S} + ^{197}\text{Au}$ Near the Interaction Barrier. Proceedings of the International Symposium on Exotic Nuclei (EXON-2016) 4 - 10 September, 2016, Kazan, Russia. World Scientific Publishing, eds. Yu. E Penionzhkevich, Yu.G.Sobolev, p.236-242, 2017. ISBN 978-981-3226-53-1.
12. I.M. Itkis, E. M. Kozulin, G. N. Knyazheva, K.N.Novikov, M.G.Itkis, S.N.Dmitriev, A.V.Karpov, V.I.Zagrebaev, A.E.Bondarchenko, E.Vardaci. Inverse Quasifission in the Reactions $^{156,160}\text{Gd} + ^{186}\text{W}$ at the Coulomb Barrier Energy. Proceedings of the International Symposium on Exotic Nuclei (EXON-2016) 4 - 10 September, 2016, Kazan, Russia. World Scientific Publishing, eds. Yu. E Penionzhkevich, Yu.G.Sobolev, p.181-191, 2017. ISBN 978-981-3226-53-1.
13. E.O.Saveljeva, E.M.Kozulin, K.V.Novikov, I.V.Vorobyov, A.N. Baranov, I.N. Dyatlov, K.K. Limarev, S.I. Tiutiunnikov, A.I. Berlev, S.A. Gustov, I.P Yudin, V.Y Shchegolev, A.A. Solnyshkin, F. Hanappe. Development of a Technique for Measuring Neutrons Spectra During Irradiation of Thick Uranium Targets by Protons (660 MeV), Proceedings of the International Symposium on Exotic Nuclei (EXON-2016) 4 - 10 September, 2016, Kazan, Russia. World

Scientific Publishing, eds. Yu. E Penionzhkevich, Yu.G.Sobolev, p.342-348, 2017. ISBN 978-981-3226-53-1.

14. E. M. Kozulin, V. I. Zagrebaev, G. N. Knyazheva, I. M. Itkis, K. V. Novikov, M. G. Itkis, S. N. Dmitriev, I. M. Harca, A. E. Bondarchenko, A. V. Karpov, V. V. Saiko, E. Vardaci. Inverse quasifission in the reactions $^{156,160}\text{Gd} + ^{186}\text{W}$, PHYSICAL REVIEW C 96, 064621 (2017).
15. D. Quero, E. Vardaci, E. M. Kozulin, V. A. Zagrebaev, L. Corradi, A. Pulcini, G. La Rana, I. M. Itkis, G. N. Knyazheva, K. Novikov, I. Harca, E. Fioretto, A. M. Stefanini, D. Montanari, G. Montagnoli, F. Scarlassara, S. Szilner, T. Mijatovic and W. H. Trzaska. Production of n-rich Nuclei along the Closed Shell N=126 in the collision $^{136}\text{Xe} + ^{208}\text{Pb}$ @Elab=870 MeV. International Workshop "Nuclear Reactions on Nucleons and Nuclei", Messina 2017, IOP Conf. Series: Journal of Physics: Conf. Series 1014 (2018) 012015 doi:10.1088/1742-6596/1014/1/012015.
16. K. B. Gikal, E. M. Kozulin, I. M. Itkis, M. G. Itkis, G. N. Knyazheva, K. V. Novikov and A. N. Pan. Searching for the Supersymmetric Fission Mode of ^{248}Cf , ^{254}Fm , and ^{260}No in Reactions $^{22}\text{Ne} + ^{232}\text{Th}$, ^{238}U ; $^{16}\text{O} + ^{232}\text{Th}$, ^{238}U . ISSN 1062-8738, Bulletin of the Russian Academy of Sciences: Physics, 2018, Vol. 82, No. 6, pp. 716–720. © Allerton Press, Inc., 2018. Original Russian Text © K.B. Gikal, E.M. Kozulin, I.M. Itkis, M.G. Itkis, G.N. Knyazheva, K.V. Novikov, A.N. Pan, 2018, published in Izvestiya Rossiiskoi Akademii Nauk, Seriya Fizicheskaya, 2018, Vol. 82, No. 6, p.716-720.
17. Pan A.N., Kozulin E. M., Itkis I. M., Itkis M. G., Knyazheva G. N., Gikal K.B., Novikov K.V., Kvochkina T.N., Burtebayev N.T., Covalchuk K.V. Proton induced fission of ^{232}Th at low and intermediate energies. Nucleus-2017 12 - 15 September, 2017Almaty, Kazakhstan, Izvestiya Rossiiskoi Akademii Nauk, Seriya Fizicheskaya, 2018, Vol. 82, No. 6, p.1-4.
18. E. M. Kozulin, G. N. Knyazheva, T. K. Ghosh, A. Sen, I. M. Itkis, M. G. Itkis, K. V. Novikov, I. N. Diatlov, I. V. Pchelintsev, C. Bhattacharya, S. Bhattacharya, K. Banerjee, E. O. Saveleva, I. V. Vorobiev. Fission and quasifission of the composite system $Z = 114$ formed in heavy-ion reactions at energies near the Coulomb barrier. Phys. Rev. C 99, 014616 (2019).
19. D. Kumar, E.M. Kozulin, G.N. Knyazheva, I.M. Itkis, K.V. Novikov, I.N. Diatlov, M. Cheralu, N.I. Kozulina, I.V. Pchelintsev, I.V. Vorobiev, P.P. Singh. Study of competing Fission and Quasifission modes involved in $^{54}\text{Cr} + ^{248}\text{Cm}$ leading to formation of superheavy nucleus $^{A}Z=^{302}120$. International Conference on New Frontiers in Nuclear Physics (ICNFNP 2019).
20. A. Pulcini, E. Vardaci, E. M. Kozulin, M. Ashaduzzaman, C. Borcea, A. Bracco, S. Brambilla, S. Calinescu, F. Camera, M. Ciemala, F. Davide, B. de Canditiis, A. Di Nitto, S. Dmitriev, O. Dorvaux, I. M. Harca, I. M. Itkis, V. V. Kirakosyan, G. Knyazheva, N. Kozulina, I. V. Kolesov, G. La Rana, A. Maj, I. Matea, K. Novikov, C. Petrone, D. Quero, P. K. Rath, E. Saveleva, C. Schmitt, G. Sposito, O. Stezowski, W. H. Trzaska and J. Wilson. Fission and Quasi-Fission Dynamics Near the Coulomb Barrier: γ Rays as Probe for their

21. E. M. Kozulin, I. M. Harca, E. Vardaci, I. Matea, A. Maj, I. Itkis, G. Knyazheva, K. Novikov, O. Dorvaux, M. Ciemala, S. Brambilla, N. Kozulina, I. V. Kolesov, E. Saveleva, V. V. Kirakosyan, C. Schmitt, C. Borcea, S. Calinescu, C. Petrone, M. Ashaduzzaman, B. DeCanditiis, A. Pulcini, D. Quero, P. Rath, A. di Nitto, G. La Rana, A. Bracco, F. Camera, O. Stezowski, J. Wilson, D. Verney, W. H. Trzaska & SPS and the PARIS collaboration. Features of the Fission Fragments Formed in the Heavy Ion induced $^{32}\text{S}+^{197}\text{Au}$ reaction near the interaction barrier. *Eur. Phys. J. A* 56, 6 (2020). <https://doi.org/10.1140/epja/s10050-019-00019-5>.
22. K. V. Novikov, E. M. Kozulin, G. N. Knyazheva, I. M. Itkis, A. V. Karpov, M. G. Itkis, I. N. Diatlov, M. Cheralu, B. Gall, Z. Asfari, N. I. Kozulina, D. Kumar, I. V. Pchelintsev, V. N. Loginov, A. E. Bondarchenko, P. P. Singh, I. V. Vorobiev, S. Heinz, W. H. Trzaska, E. Vardaci, N. Tortorelli, C. Borcea & I. Harca Formation and Decay of the Composite System $Z = 120$ in Reactions with Heavy Ions at Energies Near the Coulomb Barrier. *Bull. Russ. Acad. Sci. Phys.* 84, 495–499 (2020). <https://doi.org/10.3103/S1062873820040206>.
23. E. Vardaci, A. Pulcini, E. M. Kozulin, I. Matea, D. Verney, A. Maj, C. Schmitt, I. M. Itkis, G. N. Knyazheva, K. Novikov, N. Kozulina, I. M. Harca, I. V. Kolesov, K. Saveleva, V. V. Kirakosyan, O. Dorvaux, M. Ciemala, S. Brambilla, M. Ashaduzzaman, B. De Canditiis, A. Di Nitto, D. Quero, C. Parascandolo, D. Pierrotsakou, P. K. Rath, G. Sposito, G. La Rana, A. Bracco, F. Camera, O. Stezowski, C. Borcea, S. Calinescu, C. Petrone, and J. Wilson. Using γ rays to disentangle fusion-fission and quasifission near the Coulomb barrier: A test of principle in the fusion-fission and quasielastic channels. *Phys. Rev. C* 101, 064612. (2020)
24. Yu. M. Itkis, A.V. Karpov, G. N. Knyazheva, E. M. Kozulin, N. I. Kozulina, K. V. Novikov, K. B. Gikal, I. N. Diatlov, I. V. Pchelintsev, I. V. Vorobiev, A. N. Pan & P. P. Singh. Fission and Quasi-Fission in Reactions with Deformed Nuclei. *Bull. Russ. Acad. Sci. Phys.* 84, 938–942 (2020). <https://doi.org/10.3103/S1062873820080158>.
25. D. Kumar, E. M. Kozulin, M. Cheralu, G. N. Knyazheva, I. M. Itkis, M. G. Itkis, K. V. Novikov, A. A. Bogachev, N. I. Kozulina, I. N. Diatlov, I. V. Pchelintsev, I. V. Vorobiev, T. Banerjee, Y. S. Mukhamejanov, A. N. Pan, V. V. Saiko, P. P. Singh, R. N. Sahoo, A. N. Andreyev, D. M. Filipescu, M. Maiti, R. Prajapat & R. Kumar. *Bull. Russ. Acad. Sci. Phys.* 84, 1001–1006 (2020). <https://doi.org/10.3103/S1062873820080213>.
26. Rudra N. Sahoo, Malika Kaushik, Arshiya Sood, Arzoo Sharma, Swati Thakur, Pawan Kumar, Md. Moin Shaikh, Rohan Biswas, Abhishek Yadav, Manoj K. Sharma, J. Gehlot, S. Nath, N. Madhavan, R. G. Pillay, E. M. Kozulin, G. N. Knyazheva, K. V. Novikov, and Pushpendra P. Singh. Role of neutron transfer in sub-barrier fusion. *Phys. Rev. C* 102, 024615. (2020)
27. K. V. Novikov, E. M. Kozulin, G. N. Knyazheva, I. M. Itkis, M. G. Itkis, A. A. Bogachev, I. N. Diatlov, M. Cheralu, D. Kumar, N. I. Kozulina, A. N. Pan, I. V. Pchelintsev, I. V. Vorobiev, W. H. Trzaska, S. Heinz, H. M. Devaraja, B. Lommel, E. Vardaci, S. Spinosa, A. Di Nitto, A.

- Pulcini, S. V. Khlebnikov, Pushendra P. Singh, Rudra N. Sahoo, B. Gall, Z. Asfari, C. Borcea, I. Harca, and D. M. Filipescu. Investigation of fusion probabilities in the reactions with $^{52,54}\text{Cr}$, ^{64}Ni , and ^{68}Zn ions leading to the formation of $Z = 120$ superheavy composite systems. *Phys. Rev. C* 102, 044605. (2020)
28. M. Cheralu, Y.S. Mukhamejanov, E.M. Kozulin, G.N. Knyazheva, I.M. Itkis, T. Banerjee, I.N. Diatlov, D. Kumar, N.I. Kozulina, K.V. Novikov, A.N. Pan, I.V. Pchelintsev, R.S. Tikhomirov, I.V. Vorobiev, M. Maiti, R. Prajapat, R. Kumar, G. Sarkar, W.H. Trzaska, P.P. Singh, R.N. Sahoo, E. Vardaci, A. Andreev, A. Mitu, I. Harca. Fission of $^{182,183}\text{Hg}$ Nuclei at Energies Around the Coloumb Barrier. *Acta Physica Polonica B Proceedings Supplement*, 14(4):741. (2021).
29. E.M.Kozulin, E.Vardaci, W.H.Trzaska, A.A.Bogachev, I.M.Itkis, A.V.Karpov, G.N.Knyazheva, K.V.Novikov. Evidence of quasifission in the ^{180}Hg composite system formed in the $^{68}\text{Zn} + ^{112}\text{Sn}$ reaction. *Phys. Let. B* 819: 136442. (2021).
30. A. A. Bogachev, E. M. Kozulin, G. N. Knyazheva, I. M. Itkis, M. G. Itkis, K. V. Novikov, D. Kumar, T. Banerjee, I. N. Diatlov, M. Cheralu, V. V. Kirakosyan, Y. S. Mukhamejanov, A. N. Pan, I. V. Pchelintsev, R. S. Tikhomirov, I. V. Vorobiev, M. Maiti, R. Prajapat, R. Kumar, G. Sarkar, W. H. Trzaska, A. N. Andreyev, I. M. Harca, and E. Vardaci. Asymmetric and symmetric fission of excited nuclei of $^{180,190}\text{Hg}$ and $^{184,192,202}\text{Pb}$ formed in the reactions with ^{36}Ar and $^{40,48}\text{Ca}$ ions. *Phys. Rev. C* 104, 024623. (2021).
31. E. I. Galkina, E. M. Kozulin, G. N. Knyazheva, I. M. Itkis, A. A. Bogachev, I. N. Diatlov, M. Cheralu, D. Kumar, N. I. Kozulina, K. V. Novikov, A. N. Pan, I. V. Pchelintsev, I. V. Vorobiev, W. H. Trzaska, S. Heinz, B. Lommel, E. Vardaci, S. Spinosa, A. Di Nitto, A. Pulcini, C. Borcea, and I. Harca. Investigating Mass–Energy Distributions of Fragments Produced in the $^{32}\text{S} + ^{232}\text{Th} \rightarrow ^{264}\text{Sg}$ Reaction at Energies Below and Near the Coulomb Barrier. *Bull. Russ. Acad. Sci. Phys.* 85, 10, 1085-1089. (2021).
32. A. A. Bogachev, E. M. Kozulin, G. N. Knyazheva, I. M. Itkis, K. V. Novikov, T. Banerjee, M. Cheralu, M. G. Itkis, E. Mukhamedzhanov, D. Kumar, A. Pan, I. V. Pchelintsev, I. V. Vorob'ev, W. H. Trzaska, E. Vardaci, A. di Nitto, S. V. Khlebnikov, I. Harka, and A. Andreyev. Study of Binary Processes in the Reactions of $^{36}\text{Ar} + ^{144,154}\text{Sm}$ and $^{68}\text{Zn} + ^{112}\text{Sn}$ Leading to the Formation of Neutron-Deficient Compound $^{180,190}\text{Hg}$ Nuclei. *Bull. Russ. Acad. Sci. Phys.* 85, 10, 1080-1084. (2021).
33. D. Kumar, E. M. Kozulin, G. N. Knyazheva, M. Maiti, I. M. Itkis, A. A. Bogachev, K. V. Novikov, M. Cheralu, T. Banerjee, I. N. Diatlov, N. I. Kozulina, I. V. Pchelintsev, I. V. Vorobiev, A. N. Pan, R. Prajapat, R. Kumar, E. Vardaci, W. H. Trzaska, A. Andreyev, and I. M. Harca. Investigation on Competing Fission Modes in $^{178}\text{Pt}^*$ Produced by $^{36}\text{Ar} + ^{142}\text{Nd}$ Reaction up to High Excitation Energies. *Bull. Russ. Acad. Sci. Phys.* 85, 12, 1479-1485. (2021).
34. E. M. Kozulin, G. N. Knyazheva, I. M. Itkis, M. G. Itkis, Y. S. Mukhamejanov, A. A. Bogachev, K. V. Novikov, V. V. Kirakosyan, D. Kumar, T. Banerjee, M. Cheralu, M. Maiti,

- R. Prajapat, R. Kumar, G. Sarkar, W. H. Trzaska, A. N. Andreyev, I. M. Harca, A. Mitu, and E. Vardaci. Fission of $^{180,182,183}\text{Hg}^*$ and $^{178}\text{Pt}^*$ nuclei at intermediate excitation energies. *Phys. Rev. C* 105, 014607. (2022)
35. A. Sen, T. K. Ghosh, E. M. Kozulin, I. M. Itkis, G. N. Knyazheva, K. V. Novikov, S. Bhattacharya, K. Banerjee, and C. Bhattacharya. Quasifission in $^{84,86}\text{Kr}$ -induced reactions populating superheavy elements. *Phys. Rev. C* 105, 014627. (2022).
36. E. M. Kozulin, G. N. Knyazheva, A. A. Bogachev, V. V. Saiko, A. V. Karpov, I. M. Itkis, K. V. Novikov, Y. S. Mukhamejanov, I. V. Pchelintsev, I. V. Vorobiev, T. Banerjee, M. Cheralu, and Pushpendra P. Singh. Experimental study of fast fission and quasifission in the $40\text{Ca}+208\text{Pb}$ reaction leading to the formation of the transfermium nucleus ^{248}No . *Phys. Rev. C* 105, 024617. (2022).
37. Tathagata Banerjee, E.M. Kozulin, K.B. Gikal, I.M. Itkis, G.N. Knyazheva, N.I. Kozulina, K.V. Novikov, I. N. Diatlov, I.V. Pchelintsev, A.N. Pan, I.V. Vorobiev. Super-asymmetric fission mode in ^{254}Fm nucleus populated by $^{16}\text{O}+^{238}\text{U}$ reaction. *Phys. Part. Nucl.* 53, 2, 135-148. (2022).
38. Tathagata Banerjee, E. M. Kozulin, N. T. Burtebayev, K. B. Gikal, G. N. Knyazheva, I. M. Itkis, K. V. Novikov, T. N. Kvochkina, Y. S. Mukhamejanov, A. N. Pan. Search for possible fission modes at high excitation energies in ^{254}Fm . *Phys. Rev. C* 105, 044614. (2022).
39. A.A. Bogachev, E.M. Kozulin, G.N. Knyazheva, I.M. Itkis, K.V. Novikov, T.Banerjee, M. Cheralu, M.G. Itkis, Y. Mukhamejanov, D. Kumar, A. Pan, I.V. Pchelintsev, I.V. Vorobiev, W.H. Trzaska, E. Vardaci, A. di Nitto, S.V. Khlebnikov, I. Harka, A. Andreyev. Erratum to: Study of Binary Processes in the Reactions of $^{36}\text{Ar} + ^{144,154}\text{Sm}$ and $^{68}\text{Zn} + ^{112}\text{Sn}$ Leading to the Formation of Neutron-Deficient Compound $^{180,190}\text{Hg}$ Nuclei. *Bull. Russ. Acad. Sci. Phys.* 86, 12, 1557 (2022).
40. A.A. Ostroukhov, E.M. Kozulin, N.T. Burtebayev, A.A. Bogachev, K.B. Gikal, I.M. Itkis, G.N. Knyazheva, T.N. Kvochkina, Y.S. Mukhamejanov, K.V. Novikov, A. N. Pan. Investigation of fission modes of ^{248}Cf and $^{254,256}\text{Fm}$ nuclei produced in heavy-ion reactions. *Physics of Atomic Nuclei*, 85, 6, 748-755 (2023).
41. K.A. Kulkov, E.M. Kozulin, A.A. Bogachev, G.N. Knyazheva, I.M. Itkis, K.V. Novikov, I.V. Vorobiev, I.V. Pchelintsev, N.S. Bublikova, M.G. Voronyuk. Experimental study of mass-energy distribution of fragments produced in the $^{90}\text{Zr}+^{90}\text{Zr}$ reaction leading to the formation of ^{180}Hg at energies near the Coulomb barrier. *Physics of Atomic Nuclei*, 85, 6, 756-762 (2023).
42. E.M. Kozulin, A.A. Bogachev, G.N. Knyazheva, V. Saiko, I.M. Itkis, K.V. Novikov, D. Kumar, P.P. Singh. Exclusive mass-energy distributions of the fast fission fragments in the $^{40}\text{Ca}+^{144}\text{Sm}$ reaction. *Physics of Atomic Nuclei*, 86, 2, 56-69 (2023).

43. E.M. Kozulin, G.N. Knyazheva, A.V. Karpov, V. Saiko, A.A. Bogachev, I.M. Itkis, K.V. Novikov, I.V. Vorobiev, I.V. Pchelintsev, E.O. Savelieva, R.S. Tikhomirov, M.G. Itkis, Yu.Ts. Oganessian. Detailed study of multinucleon transfer features in the $^{136}\text{Xe}+^{238}\text{U}$ reaction. *Phys. Rev. C* 109, 034616 (2024).

44. E. Vardaci, A. di Nitto, T. Banerjee, A. Pulcini, P.A. Setaro, G. Alifano, G. la Rana, N. Carjan, A. Cicchella, S. Spinosa, E.M. Kozulin, W.H. Trzaska, I.M. Itkis, G.N. Knyazheva, D. Kumar, K.V. Novikov, I.V. Vorobiev, S.V. Khlebnikov, M. Cheralu, N.I. Kozulina, I.V. Pchelintsev, C. Borcea, S. Calinescu, D. M. Filipescu, I.M. Harca, C. Petrone. The role of fission in the search of the super heavy land: fission modes in heavy and superheavy nuclei. Case study of Hg. *EPJ Web of Conference* 304, 01003 (2024).