**Научная биография н.с. ЛЯР ОИЯИ**

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обработка и анализ экспериментальных данных, посвященных исследованию динамики процесса слияния-деления, квазиделения, реакций глубоконеупругих передач тяжелых и сверхтяжелых составных систем, полученных в реакциях с тяжелыми ионами.

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1-я премия на конкурсе научно-методических работ ОИЯИ 2000 года

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* “Competition between fusion-fission and quasifission in the reactions with heavy ions leading to the formation of Hs”. The International Conference on Dynamical Aspects of Nuclear Fission (DANF 2011), Smolenice Castle, Slovak Republic, October 17-21, 2011.
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* “Bimodal fission of Hs\*”. The International Symposium on Entrance Channel Effect on the Reaction Mechanism in Heavy Ion Collisions, Messina, Italy, November 6-8, 2013.
* “Fusion probabilities in the reactions with actinide nuclei leading to the formation of SHE”. The International Symposium on Exotic Nuclei (EXON 2016), Kazan, Russia, September 4-10, 2016.
* “Inverse Quasifission in 156,160Gd+186W Reactions”. LXVII International Conference on Nuclear Spectroscopy and Atomic Nucleus Structure (Nucleus-2017), Almaty, Kazakhstan, September 12-15, 2017.
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**Публикации:** (список включает доклады, опубликованные в трудах конференций)

1. M.G. Itkis, L. Calabretta, F. Hanappe, Yu.M. Itkis, A.Kelic, N.A. Kondratiev, E.M.Kozulin, Yu.Ts.Oganessian, I.V.Pokrovski, E.V.Prokhorova, G.Rudolf, A.Ya.Rusanov, L.Stuttge, *Fission of heavy and Superheavy Nuclei at Low Excitation Energies*, Nucl. Phys. A 654 (1999) 870-877.
2. **A. Kelic, I.M. Itkis, I.V. Pokrovsky, E.V. Prokhorova, B. Benoit, G. Costa, L. Donadille, O. Dourvaux, E. de Goes Brennand, G. Guillaume, F. Hanappe, B. Heusch, A. Huck, M.G. Itkis, S. Jokic, N.A. Kondratiev, E.M. Kozulin, Yu.Ts. Oganessian, G. Rudolf, A.Ya. Rusanov, L. Stuttge, D. Vorkapic, K. Yuasa-Nakagawa.** *Pre-fission Neutron Multiplicities and the Fission Modes of 226Th*, Europhysics Letters, 47(5) (1999) 552-555.
3. L. Donadille, E. Liatard, B. Benoit, F. Hanappe, L. Stuttge, G. Rudolf, E.M. Kozulin, Yu.A. Lazarev, P. Desesquelles, B. Bilwes, R. Bougault, J.-F. Bruandet, G.J. Costa, O. Dorvaux, F. Farget, J. Fayot, G. Guillaume, A. Huck, I.M. Itkis, M.G. Itkis, S. Jokic, N.A. Kondratiev, F.-R. Lecolley, J.-F. Lecolley, L.A. Litnevsky, Yu.Ts. Oganessian, G. Perrin, D. Santos, F. Schussler, S. Tomaџsevic, J.-B. Viano, B. Vignon. *Fission Dynamics for Capture Reactions in 58,64Ni + 208Pb Systems: New results in Terms of Thermal Energy and Neutron Multiplicity Correlated Distributions*, Nucl. Phys. A656 (1999) 259-283.
4. I.V.Pokrovsky, M.G.Itkis, I.M.Itkis, N.A.Kondratiev, E.M.Kozulin, E.V.Prokhorova, V.S.Salamatin, V.V.Pashkevich, S.I.Mulgin, A.Ya.Rusanov, S.V.Zhdanov, G.G.Chubarian, B.J.Hurst, R.P.Schmitt, C.Agodi, G.Bellia, L.Calabretta, K.Lukashin, C.Maiolino, A. Kelic, G. Rudolf, L.Stuttge, F.Hanappe, *Fission modes in the reaction 208Pb(18O, f)*, Phys. Rev. C 62 (2000) 014615-25.
5. M. G. Itkis, Yu. Ts. Oganessian, E. M. Kozulin, B. Benoit, A. A. Bogatchev, I. M. Itkis, G. Giardina, M. Jandel, F. Hanappe, J. Kliman, G. N. Kniajeva, N. A. Kondratiev, I. V. Korzyukov, L. Krupa, T. Materna, K. J. Moody, I. V. Pokrovski, V. A. Ponomarenko, E. V. Prokhorova, N. Rowley, A. Ya. Rusanov, L. Stuttge, V. M. Voskresenski, *Fusion-Fission of Superheavy Nuclei at Low Excitation Energy,* Jinr Preprint E15-2000-295, Dubna (2000).
6. I.Itkis, A.A.Bogatchev, M.G.Itkis, J.Kliman, G.N.Knyazheva, N.A.Kondratiev, E.M.Kozulin, I.V.Korzyukov, L.Krupa, Yu.Ts.Oganessian, I.V.Pokrovski, E.V.Prokhorova, V.M.Voskressenski, N.Amar, J.Peter, G.Giardina, F.Hanappe, T.Materna, P.Desesquelles, O.Dorvaux, N.Rowley, Ch.Schmitt, L.Stuttge. *The Study Of The Characteristics Of Neutron Emission In The Reactions With 48Ca Ions*, In:Proc. of the International Conference on Nuclear Physics at Border Lines May 21-24, 2001 Lipari (Messina), Italy, World Scientific, Singapore (2002) 142.
7. A.Yu. Chizhov, M.G. Itkis, I.M. Itkis, G.N. Kniajeva, E.M. Kozulin, N.A. Kondratiev, I.V. Pokrovsky, R.N. Sagaidak, V.M. Voskressensky, A.V. Yeremin, L. Corradi, A. Gadea, L. Latina, A.M. Stefanini, S. Szilner, M. Trotta, A.M. Vinodkumar, S. Beghini, G. Montagnoli, F. Scarlassara, A.Ya. Rusanov, F. Hanappe, O. Dorvaux, N. Rowley, and L. Stuttge *Unexpected entrance channel effect in the fission of 216Ra\** Phys. Rev. C67 (2003) 011603.

### R. N. Sagaidak, G. N. Kniajeva, I. M. Itkis, M. G. Itkis, N. A. Kondratiev, E. M. Kozulin, I. V. Pokrovsky, A. I. Svirikhin, V. M. Voskressensky, A. V. Yeremin ,L. Corradi, A. Gadea, A. Latina, A. M. Stefanini, S. Szilner, M. Trotta, A. M. Vinodkumar,S. Beghini, G. Montagnoli, and F. Scarlassara, D. Ackermann, F. Hanappe, N. Rowley and L. Stuttgé *Fusion suppression in mass-asymmetric reactions leading to Ra compound nuclei,* Phys. Rev. C 68 (2003) 014603.

### M. G. Itkis, J. Äystö, S. Beghini, A. A. Bogatchev, L. Corradi, O. Dorvaux, A. Gadea, G. Giardina, F. Hanappe, I. M. Itkis, M. Jandel, J. Kliman, S.V.Khlebnikov, G. N. Kniajeva, N. A. Kondratiev, E. M. Kozulin, L. Krupa, L. Latina, T. Materna, G. Montagnoli, Yu. Ts. Oganessian, I. V. Pokrovsky, E. V. Prokhorova, N. Rowley, V. A. Rubchenya, A. Ya. Rusanov, R.N.Sagaidak, F. Scarlassara, A. M. Stefanini, L. Stuttge, S. Szilner, M. Trotta, W. H. Trzaska, D. N. Vakhtin, A. M. Vinodkumar, V. M. Voskresenski, V.I.Zagrebaev. *Shell Effects in Fission and Quasi-fission of heavy and Superheavy Nuclei*. In: Proc.VIII International Conference on Nucleus-Nucleus Collision, 17-21 June, 2003, Moscow, Russia, Eds. Yu.Ts.Oganessian & R.Kalpakchieva, Nucl.Phys.A734 (2004) 136.

### G.N.Kniajeva, L.Krupa, A.A.Bogachev, G.G.Chubarian, O.Dourvaux, I.M.Itkis, M.G.Itkis, J.Kliman, S.Khlebnikov, N.A.Kondratiev, E.M.Kozulin, V.Lyapin, T.Materna, I.V.Pokrovsky, V.A.Rubchenya, W.H.Trzaska, D.Vakhtin, V.M.Voskressenski. *Neutron and Gamma-ray Emission in the Proton Induced Fission of 238U and 242Pu*. In: Proc.VIII International Conference on Nucleus-Nucleus Collision, 17-21 June, 2003, Moscow, Russia, Eds. Yu.Ts.Oganessian & R.Kalpakchieva, Nucl.Phys.A734 (2004) E25-E28.

### M.G.Itkis, B.Benoit, A.A.Bogachev, D.M.Gorodisskiy, F.Hanappe, I.M.Itkis, M.Jandel, J.Kliman, N.A.Kondratiev, E.M.Kozulin, L.Krupa, T.Materna, Yu.Ts.Oganessian, I.V.Pokrovskiy, E.V.Prokhorova, A.Ya.Rusanov, L.Stuttge, V.M.Voskressenski. *Energy Balance in Fission and Quasifission of 256No .* In: Proc.VIII International Conference on Nucleus-Nucleus Collision, 17-21 June, 2003, Moscow, Russia, Eds. Yu.Ts.Oganessian & R.Kalpakchieva,, Nucl.Phys.A734 (2004) E29-E32.

### I. Itkis, A. A. Bogatchev, A. Yu. Chizhov, M. G. Itkis, J. Kliman, G. N. Knyazheva, N. A. Kondratiev, E. M. Kozulin, I. V. Korzyukov, L. Krupa, Yu. Ts. Oganessian, I. V. Pokrovski, E. V. Prokhorova, R. N. Sagaidak, V. M. Voskressenski, A. Ya. Rusanov, L.Corradi, A.M.Stefanini,M.Trotta, S.Beghini, G.Montagnoli, F.Scarlassara, G.G.Chubarian, F.Hanappe, T.Materna, O.Dourvaux, N.Rowley, L.Stuttge, G. Giardina. *Neutron Emission in Fission and Quasi-Fission.* In: Proc.of International Symposium on Exotic Nuclei, Peterhof, 5-12 July 2004, Eds.:Yu. E. Penionzhkevich, E.A. Cherepanov, World Scientific, Singapure (2005) 317.

### A.M.Stefanini, M.Trotta, B.R.Behera, L.Corradi, E.Fioretto, A.Gadea, A.Latina1, S.Szilner, Y.W.Wu, S.Beghini, G.Montagnoli, F.Scarlassara, A.Yu.Chizhov, I.M.Itkis, N.A.Kondratiev, I.V.Pokrovskiy, R.N.Sagaidak, G.N.Kniajeva, E.M.Kozulin, V.M.Voskressensky, S.Courtin, F.Haas, and N.Rowley. *Fusion-evaporation cross sections for 48Ca + 154Sm near the Coulomb barrie*r. Eur*.* Phys. J. A 23 (2005) 473.

1. I.M. Itkis, A.A. Bogachev, A.Yu. Chizhov, D.M. Gorodisskiy, M.G. Itkis, G.N. Kniazheva, N.A. Kondratierv, E.M. Kozulin, L. Krupa, S.I. Mulgin, I.V. Pokrovsky, E.V. Prokhorova, A.Ya. Rusanov, V.M. Voskressenski, S.V. Zhdanov. *What can one learn about lithium breakup from the fission reaction of 232Th(6Li, f) at energies around the Coulomb barrier?*  Phys. Let. B 640 (2006) 23–27.
2. M.G. Itkis, A.A. Bogachev, I.M. Itkis, J. Kliman, G.N. Knyazheva, N.A. Kondratiev, E.M. Kozulin, L. Krupa, Yu.Ts. Oganessian, I.V. Pokrovsky, E.V. Prokhorova, A.Ya. Rusanov. *The processes of fusion-fission and quasi-fission of superheavy nuclei.* Nucl. Phys. A 787 (2007) 150-159.
3. E.V. Prokhorova, A.A. Bogachev, M.G. Itkis, I.M. Itkis, G.N. Knyazheva, N.A. Kondratiev, E.M. Kozulin, L. Krupa, Yu.Ts. Oganessian, I.V. Pokrovsky, V.V. Pashkevich and A.Ya. Rusanov. *The fusion–fission and quasi-fission processes in the reaction 48Ca + 208Pb at energies near the Coulomb barrier.* Nucl. Phys. A 802 (2007) 45-66.
4. M.G.Itkis, A.A.Bogachev, I.M.Itkis, G.N.Knyazheva, N.A.Kondratiev, E.M.Kozulin, L.Krupa, Yu.Ts.Oganessian, I.V.Pokrovsky, E.V.Prokhorova, A.Ya.Rusanov, V.M.Voskresenski, V.A.Rubchenya. *The process of fusion-fission of superheavy nuclei.* Int. J. Mod. Phys. E16 (2007) 957-963.
5. Э.М.Козулин, А.А.Богачев, М.Г.Иткис, Ю.М.Иткис, Г.Н.Княжева, Н.А.Кондратьев, Л.Крупа, И.В.Покровский, Е.В.Прохорова. *Время-пролетный спектрометр CORSET для измерения бинарных продуктов ядерных реакций.* Приборы и Техника Эксперимента, 51, 1 (2008) 51-66.
6. E.M. Kozulin, G.N. Knyazheva, I.M. Itkis, M.G. Itkis, A.A. Bogachev, L. Krupa, T.A. Loktev, S.V. Smirnov, V.I. Zagrebaev, J. Aysto, W.H. Trzaska, V.A. Rubchenya , E. Vardaci, A.M. Stefanini, M. Cinausero, L. Corradi, E. Fioretto, P. Mason, G.F. Prete, R. Silvestri, S. Beghini, G. Montagnoli, F. Scarlassara, F. Hanappe, S.V. Khlebnikov, J. Kliman, A. Brondi, A. Di Nitto, R. Moro, N. Gelli, S. Szilner. *Investigation of the reaction 64Ni+238U being an option of synthesizing element 120*. Phys. Lett. B 686 (2010) 227.
7. M.G. Itkis, I.M. Itkis, G.N. Knyazheva and E.M. Kozulin. *Fusion-fission and quasifission of superheavy systems in heavy-ion induced reactions*. Nucl. Phys. A 834 (2010) 374c.
8. I.M. Itkis, M.G. Itkis, G.N. Knyazheva, E.M. Kozulin, L. Krupa, F. Hanappe, O. Dorvaux, L.Stuttgé. Neutron Emission in Fission and Quasi-fission of Hs, AIP Conf. Proc. 1224 (2010) 372.
9. G.N. Knyazheva, A.A. Bogachev, I.M. Itkis, M.G. Itkis and E.M. Kozulin. *Fusion Probability in the Reactions 58Fe+244Pu and 64Ni+238U*, AIP Conf. Proc. 1224 (2010) 377.
10. M.G. Itkis, A.A. Bogachev, E.V. Chernysheva, I.M. Itkis, G.N. Knyazheva and E.M. Kozulin *Fission and Quasifission in the “Warm” Fusion Reactions*, AIP Conf. Proc. 1238 (2010) 52.
11. E.M. Kozulin, G.N. Knyazheva, I.M. Itkis, N.I. Kozulina, T.A. Loktev, K.V. Novikov, I. Harca. *Shell effects in fission, quasifission and multinucleon transfer reaction*, Journal of Physics: Conf. Series 515 (2014) 012010.
12. G.N. Knyazheva, I.M. Itkis, E.M.Kozulin. *The time scale of quasifission process in reactions with heavy ions*, Journal of Physics: Conf. Series 515 (2014) 012009.
13. I.M. Itkis, E.M. Kozulin, M.G. Itkis, G.N. Knyazheva, A.A. Bogachev, E.V. Chernysheva, L. Krupa, Yu.Ts. Oganessian, V.I. Zagrebaev, A.Ya. Rusanov, F. Goennewein, O. Dorvaux, L. Stuttge, F. Hanappe, E. Vardaci, D. De Goes Brennand, *Fission and quasifission modes in heavy ions induced reactions leading to the formation of Hs\**, Phys. Rev. C 83 (2011) 064613.
14. M.G. Itkis, F. Goennewein, I.M. Itkis, G.N. Knyazheva, E.M. Kozulin, A.A. Bogachev, E. Vardaci. *Fusion-Fission of superheavy compound nuclei produced in the reactions with heavy ions beyond Ca*, Euro. Phys. Journal Web of Conf. 17 (2011) 12002.
15. I.M. Itkis, M.G. Itkis, G.N. Knyazheva, and E.M. Kozulin, *Fusion-fission and quasifission in the reactions with heavy ions leading to the formation of Hs*, AIP Conf. Proc. 1491 (2012) 350-352.
16. E.M. Kozulin, E. Vardaci, G.N. Knyazheva, A.A. Bogachev, S.N. Dmitriev, I.M. Itkis, M.G. Itkis, A.G. Knyazev, T.A. Loktev, K.V. Novikov, E.A. Razinkov, O.V. Rudakov, S.V. Smirnov, W. Trzaska, V.I. Zagrebaev. *Mass distributions of the system 136Xe + 208Pb at lab energies around the Coulomb barrier: a candidate reaction for production of neutron-rich nuclei at N=126*, Phys. Rev. C 86 (2012) 044611.
17. M.G. Itkis, I.M. Itkis, G.N. Knyazheva, E.M. Kozulin. *Nuclear Reaction Mechanisms Induced by Heavy Ions*, In: Exciting Interdisciplinary Physics, FIAS Interdisciplinary Science Series, Eds.: W. Greiner, Springer International Publishing, Switzerland 2013, pp.33-42.
18. 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 88Sr with 176Yb at the Coulomb barrier energy*, Phys. Rev. C 89 (2014) 014614.
19. E.M. Kozulin, G. N. Knyazheva, I. M. Itkis, M. G. Itkis, A. A. Bogachev, E. V. Chernysheva, L. Krupa, F. Hanappe, O. Dorvaux, L. Stuttge, W.H. Trzaska, C. Schmitt, G.G.Chubarian. *Fusion-fission and quasifission of superheavy systems with Z = 110 − 116 formed in the 48Ca- induced reactions*, Phys. Rev. C 90 (2014) 054608.
20. E.M. Kozulin, G.N. Knyazheva, I.M. Itkis, N.I. Kozulina, T.A. Loktev, K.V. Novikov, I. Harca. *Shell effects in fission, quasifission and multinucleon transfer reaction*, Journal of Physics: Conf. Series 515 (2014) 012010.
21. G.N. Knyazheva, I.M. Itkis, E.M.Kozulin. *The time scale of quasifission process in reactions with heavy ions*, Journal of Physics: Conf. Series 515 (2014) 012009.
22. M.G. Itkis, E. Vardaci, I.M. Itkis, G.N. Knyazheva, E.M. Kozulin. *Fusion and fission of heavy and superheavy nuclei*, Nucl.Phys. A 944 (2015) 204.
23. I.M. Harca, S. Dmitriev, J. 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 34S + 186W near the interaction barrier*, AIP Conf. Proc. 1645 (2015) 344.
24. 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 involving S and Ca to Ti and Ni ions*, Phys. Rev. C 94 (2016) 054613.
25. 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, C. Petrone. *Challenging fission dynamics around the barrier: The case of 34S+186W*. Eur. Phys. J. A 52 (2016) 293.
26. I.M. Itkis, M.G. Itkis, G.N. Knyazheva, E.M. Kozulin. *Fusion Probabilities in the Reactions with Actinide Nuclei Leading to the Formation of SHE*. In: Proc. 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.173-180, 2017.
27. I.M. Itkis, E.M. Kozulin**,** G.N. Knyazheva, K.V. Novikov, M.G. Itkis, S.N. Dmitriev, A.V. Karpov, V.I. Zagrebaev, A.E. Bondarchenko, E. Vardaci. *Inverse Quasifission in the Reactions 156,160Gd + 186W at the Coulomb Barrier Energy*. In: Proc. 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.
28. 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 156,160Gd+186W*, Phys. Rev. C 96 (2017) 064621.
29. M.G. Itkis, I.M. Itkis, G.N. Knyazheva, and E.M. Kozulin. *Impact of Quasifission on SHE Production*. In: Proc. of the Sixth International Conference on Fission and Properties of Neutron-Rich Nuclei (ICFN6), 6–12 November 2016, Florida, USA, World Scientific Publishing, eds. J.H. Hamilton, A.V. Ramayya, P. Talou, p. 112-120, 2017.
30. M.G. Itkis, I.M. Itkis, G.N. Knyazheva and E.M. Kozulin. *Fusion-fission of superheavy nuclei and clustering phenomena*. Journal of Physics: Conf. Ser. 863 (2017) 012043.
31. I.M. Itkis, G.N. Knyazheva, E.M. Kozulin. *Inverse Quasifission in 156,160Gd+186W Reactions*. [Bulletin of the Russian Academy of Sciences: Physics](https://link.springer.com/journal/11954), Volume 82, [No.6](https://link.springer.com/journal/11954/82/6/page/1) (2018) 643.
32. 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 Superasymmetric Fission Mode of 248Cf, 254Fm, and 260No in Reactions 22Ne+232Th,238U; 16O+232Th,238U*. Bull. Russ. Acad. Sci. Phys. 82 (2018) 716.
33. A.N. Pan, E.M. Kozulin, I.M. Itkis, M.G. Itkis, G.N. Knyazheva, K.B. Gikal, K.V. Novikov, T.N. Kvochkina, N.T. Burtebayev, K.V. Covalchuk, *Proton induced fission of 232Th at low and intermediate energies*. Bulletin of the Russian Academy of Sciences: Physics, Vol. 82, No. 6 (2018) 721.
34. 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 (2019) 014616.
35. E Vardaci, M G Itkis, I M Itkis, G Knyazheva and E M Kozulin, *Fission and quasifission toward the superheavy mass region*, J. Phys. G: Nucl. Part. Phys. 46 (2019) 103002.
36. 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, *Features of the Fission Fragments Formed in the Heavy Ion induced 32S+197Au reaction near the interaction barrier*,Eur. Phys. J. A 56 (2020) 6.
37. 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. Pierroutsakou, 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 (2020) 064612.
38. 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. Vorobiov, A.N. Pan, and P.P. Singh, *Fission and quasifission in the reactions with well-deformed nuclei*, Bull. Russ. Acad. Sci. Phys. 84 (2020) 938.
39. 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 (2020) 495.
40. 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, *Study of Mass-Asymmetric Fission of 180,190Hg Formed in the 36Ar + 144,154Sm Reactions.* Bull. Russ. Acad. Sci. Phys. 84 (2020) 1001.
41. 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, Pushpendra P. Singh, Rudra N. Sahoo, B. Gall, Z. Asfari, C. Borcea, I. Harca, D.M. Filipescu, *Investigation of fusion probabilities in the reactions with 52,54Cr, 64Ni and 68Zn ions leading to the formation of Z=120 superheavy composite systems.* Phys. Rev. C 102, 044605 (2020).
42. 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, A. Andreyev, *Study of Binary Processes in the Reactions of 36Ar+144,154Sm and 68Zn+112Sn Leading to the Formation of Neutron-Deficient Compound 180,190Hg Nuclei*. Bull. Russ. Acad. Sci. Phys. 85 (2021) 1080.
43. 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, I. Harca, *Investigating Mass-Energy Distributions of Fragments Produced in the 32S+232Th→264Sg Reaction at Energies Below and Near the Coulomb Barrier*. Bull. Russ. Acad. Sci. Phys. 85 (2021) 1085.
44. 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 178Pt\* Produced by 36Ar+142Nd Reaction up to High Excitation Energies*, Bull. Russ. Acad. Sci. Phys. 85 (2021) 1479.
45. 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, E. Vardaci, *Asymmetric and symmetric fission of excited nuclei of 180,190Hg and 184,192,202Pb, formed in the reactions with 36Ar and 40,48Ca ions,* Phys. Rev. C 104 (2021) 024623.
46. 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, E. Vardaci, *Fission of 180,182,183Hg\* and 178Pt\* nuclei at intermediate excitation energies*, Phys. Rev. C 105 (2022) 014607.
47. 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 40Ca+208Pb reaction leading to the formation of the transfermium nucleus 248No. Phys. Rev. C 105 (2022) 024617.
48. T. 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 and I. V. Vorobiev, *Super-Asymmetric Fission Mode in 254Fm Nucleus Populated by 16O+238U Reaction*, Phys. Part. Nucl. 53 (2022) 135.
49. T. 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 254Fm*, Phys. Rev. C 105 (2022) 044614.
50. T. Banerjee, E. M. Kozulin, G. N. Knyazheva, I. M. Itkis, *Search for the Fission Modes in 238Np Nucleus Populated by 6Li+232Th*. Phys. Atom. Nucl. 85 (2022) 770.
51. 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 84,86Kr-induced reactions populating superheavy elements,* Phys. Rev. C 105 (2022) 014627.
52. M.G. Itkis, G.N. Knyazheva, I.M. Itkis, E.M. Kozulin, *Experimental investigation of cross sections for the production of heavy and superheavy nuclei*. Eur. Phys. J. A 58 (2022)178.
53. E.M.Kozulin, A.A.Bogachev, G.N.Knyazheva, V.V. Saiko, I.M.Itkis, K.V.Novikov, D.Kumar, and Pushpendra P. Singh, *Exclusive Mass-Energy Distributions of the Fast Fission Fragments in the 40Ca+144Sm Reaction,* Phys. Atom. Nucl. 86 (2023) 56.

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