**Перечень опубликованных научных работ Заявителя за 5 лет**

1. *Название:* «Experimental Study of Mass–Energy Distribution of Fragments Produced in the 90Zr + 90Zr Reaction Leading to the Formation of 180Hg at Energies near the Coulomb Barrier».

*Журнал:* Physics of Atomic Nuclei, 2022, Vol. 85, No. 6, pp. 756–762.

*Дата публикации:* сентябрь 2022 г.

*Авторы:* 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, and M.G. Voronyuk

*DOI:* <https://doi.org/10.1134/S1063778823010325>

1. *Название:* «Investigation of Fission Modes of 248Cf and 254,256Fm Nuclei Produced in Heavy-Ion Reactions».

*Журнал:* Physics of Atomic Nuclei, 2022, Vol. 85, No. 6, pp. 748–755.

*Дата публикации:* сентябрь 2022 г.

*Авторы:* 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**, and A.N. Pan

*DOI:* <https://doi.org/10.1134/S1063778823010428>

1. *Название:* «Search for possible fission modes at high excitation energies in 254Fm».

*Журнал:* PHYSICAL REVIEW C 105, 044614 (2022).

*Дата публикации:* апрель 2022 г.

*Авторы:* 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, and A.N. Pan

*DOI:* <https://doi.org/10.1103/PhysRevC.105.044614>

1. *Название:* «Super-Asymmetric Fission Mode in 254Fm Nucleus Populated by 16O + 238U Reaction».

*Журнал:* Physics of Particles and Nuclei, 2022, Vol. 53, No. 2, pp. 135–148.

*Дата публикации:* апрель 2022 г.

*Авторы:* 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, and I. V. Vorobiev

*DOI:* <https://doi.org/10.1134/S1063779622020150>

1. *Название:* «Experimental study of fast fission and quasifission in the 40Ca+208Pb reaction leading to the formation of the transfermium nucleus 248No».

*Журнал:* PHYSICAL REVIEW C 105, 024617.

*Дата публикации:* Февраль 2022 г.

*Авторы:* 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.

*DOI:* <https://doi.org/10.1103/PhysRevC.105.024617>

1. *Название:* «Quasifission in 84 ,86Kr-induced reactions populating superheavy elements»

*Журнал:* PHYSICAL REVIEW C 105, 014627.

*Дата публикации:* Январь 2022 г.

*Авторы:* A. Sen, T. K. Ghosh, E. M. Kozulin, I. M. Itkis, G. N. Knyazheva, **K. V. Novikov**, S. Bhattacharya, K. Banerjee, and C. Bhattacharya

*DOI:* https://doi.org/[10.1103/PhysRevC.105.014627](http://dx.doi.org/10.1103/PhysRevC.105.014627)

1. *Название:* «Fission of 180*,*182*,*183Hg\* and 178Pt\* nuclei at intermediate excitation energies»

*Журнал:* PHYSICAL REVIEW C **105**, 014607.

*Дата публикации:* Январь 2022 г.

*Авторы:* 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

*DOI:*  https://doi.org/[10.1103/PhysRevC.105.014607](http://dx.doi.org/10.1103/PhysRevC.105.014607)

1. *Название:* «Investigation on Competing Fission Modes in 178Pt\* Produced by 36Ar + 142Nd Reaction up to High Excitation Energies»

*Журнал:* Bulletin of the Russian Academy of Sciences: Physics, Vol. 85, No. 12, pp. 1479–1485.

*Дата публикации:* Декабрь 2021 г.

*Авторы:* 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

*DOI:* https://doi.org/[10.3103/S1062873821120194](http://dx.doi.org/10.3103/S1062873821120194)

1. *Название:* «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»

*Журнал:* Bulletin of the Russian Academy of Sciences: Physics, Vol. 85, No. 10, pp. 1080–1084.

*Дата публикации:* Октябрь 2021 г.

Авторы: 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

*DOI:*  https://doi.org/[10.3103/S1062873821100105](http://dx.doi.org/10.3103/S1062873821100105)

1. *Название:* «Investigating Mass–Energy Distributions of Fragments Produced in the 32S + 232Th → 264Sg Reaction at Energies Below and Near the Coulomb Barrier»

*Журнал:* Bulletin of the Russian Academy of Sciences: Physics, Vol. 85, No. 10, pp. 1085–1089.

*Дата публикации:* Октябрь 2021 г.

*Авторы:* 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

*DOI:* https://doi.org/[10.3103/S1062873821100154](http://dx.doi.org/10.3103/S1062873821100154)

1. *Название:* «Asymmetric and symmetric fission of excited nuclei of 180,190Hg and 184,192,202Pb [formed in the reactions with 36Ar and 40,48Ca ions](https://www.researchgate.net/publication/354259473_Asymmetric_and_symmetric_fission_of_excited_nuclei_of_Hg_180_190_and_Pb_184_192_202_formed_in_the_reactions_with_Ar_36_and_Ca_40_48_ions?_sg%5B0%5D=KMUrQotqNKbPwmgoAeXP-7MtursQLHPhCu1H5l_6JbJD_cQlQ8zkcf4ABtAYXWb8Ff2xGkLYAmreP95SPrjrum6QGJPxoOuyrzR6oSar.AE6L1U1sS8DHWsx3LY6KsyLAhK_qoAuL_ltlQh_EwWowFeIaAxUZtVReF7Uw5jDaxvy95Zjbb4NyEpp5GKq0xA)»

*Журнал:* PHYSICAL REVIEW C 104, 024623.

*Дата публикации:* Август 2021 г.

*Авторы:* 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

*DOI:* https://doi.org/[10.1103/PhysRevC.104.024623](http://dx.doi.org/10.1103/PhysRevC.104.024623)

1. *Название:* «Evidence of quasifission in the 180Hg composite system formed in the 68Zn + 112Sn reaction»

*Журнал:* Physics Letters B 819:136442.

*Дата публикации:* Июнь 2021 г.

*Авторы:* E.M.Kozulin, E.Vardaci, W.H.Trzaska, A.A.Bogachev, I.M.Itkis, A.V.Karpov, G.N.Knyazheva, **K.V.Novikov**

*DOI:*  https://doi.org/[10.1016/j.physletb.2021.136442](http://dx.doi.org/10.1016/j.physletb.2021.136442)

1. *Название:* «Fission of 182,183Hg Nuclei at Energies Around the Coloumb Barrier»

*Журнал:* Acta Physica Polonica B Proceedings Supplement, 14(4):741.

*Дата публикации:* Январь 2021 г.

*Авторы:* 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

*DOI:*  https://doi.org/[10.5506/APhysPolBSupp.14.741](http://dx.doi.org/10.5506/APhysPolBSupp.14.741)

1. *Название:* «Investigation of fusion probabilities in the reactions with 52,54Cr, 64Ni, and 68Zn ions leading to the formation of Z = 120 superheavy composite systems»

*Журнал:* PHYSICAL REVIEW C 102, 044605.

*Дата публикации:* Октябрь 2020 г.

*Авторы:* **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, and D. M. Filipescu

*DOI:* https://doi.org/[10.1103/PhysRevC.102.044605](http://dx.doi.org/10.1103/PhysRevC.102.044605)

1. *Название:* «Role of neutron transfer in sub-barrier fusion»

*Журнал:* PHYSICAL REVIEW C 102, 024615.

*Дата публикации:* Август 2020 г.

*Авторы:* 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

*DOI:* https://doi.org/[10.1103/PhysRevC.102.024615](http://dx.doi.org/10.1103/PhysRevC.102.024615)

1. *Название:* «Study of Mass-Asymmetric Fission of 180,190Hg Formed in the 36Ar + 144,154Sm Reactions»

*Журнал:* Bulletin of the Russian Academy of Sciences: Physics, 2020, Vol. 84, No. 8, pp. 1001–1006.

*Дата публикации:* Август 2020 г.

*Авторы:* 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, and R. Kumar

*DOI:*  https://doi.org/[10.3103/S1062873820080213](http://dx.doi.org/10.3103/S1062873820080213%22%20%5Ct%20%22_blank)

1. *Название:* «Fission and Quasi-Fission in Reactions with Deformed Nuclei»

*Журнал:* Bulletin of the Russian Academy of Sciences: Physics, 2020, Vol. 84, No. 8, pp. 938–942.

*Дата публикации:* Август 2020 г.

*Авторы:* 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, and R. Kumar

*DOI:* https://doi.org/[10.3103/S1062873820080158](http://dx.doi.org/10.3103/S1062873820080158)

1. *Название:* «Using γ rays to disentangle fusion-fission and quasifission near the Coulomb barrier: A test of principle in the fusion-fission and quasielastic channels»

*Журнал:* PHYSICAL REVIEW C 101, 064612.

*Дата публикации:* Июнь 2020 г.

*Авторы:* 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

*DOI:* https://doi.org/[10.1103/PhysRevC.101.064612](http://dx.doi.org/10.1103/PhysRevC.101.064612)

1. *Название:* «Formation and Decay of the Composite System Z = 120 in Reactions with Heavy Ions at Energies Near the Coulomb Barrier»

*Журнал:* Bulletin of the Russian Academy of Sciences: Physics, 2020, Vol. 84, No. 4, pp. 495–499.

*Дата публикации:* Апрель 2020 г.

*Авторы:* **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, and I. Harca

*DOI:* https://doi.org/[10.3103/S1062873820040206](http://dx.doi.org/10.3103/S1062873820040206)

1. *Название:* «[Investigation of the influence of structural peculiarities of nuclei on the formation and decay of Hg and Pt isotopes](https://www.researchgate.net/project/Investigation-of-the-influence-of-structural-peculiarities-of-nuclei-on-the-formation-and-decay-of-Hg-and-Pt-isotopes)»

*Журнал:* Centenary Celebration Conference on Nuclear Structure and Nuclear Reactions.

*Дата публикации:* Март 2020 г.

*Авторы:* D. Kumar, E.M. Kozulin, M. Cheralu, G.N. Knyazheva, I.M. Itkis, M.G. Itkis, **K.V. Novikov**, N.I. Kozulina, I.N. Diatlov, I.V. Pchelintsev, I.V. Vorobiev, T. Banerjee, A.N. Pan, V.V. Saiko, P.P. Singh, R.N. Sahoo, D.M. Filipescu, M. Maiti, R.K. Prajapat, R. Kumar, A.N. Andreyev

*DOI:* https://www.researchgate.net/project/Investigation-of-the-influence-of-structural-peculiarities-of-nuclei-on-the-formation-and-decay-of-Hg-and-Pt-isotopes

1. *Название:* «Features of the Fission Fragments Formed in the Heavy Ion induced 32S+197Au reaction near the interaction barrier»

*Журнал:* [European Physical Journal A](https://www.researchgate.net/journal/European-Physical-Journal-A-1434-601X) 56:6(1).

*Дата публикации:* Январь 2020 г.

*Авторы:* 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

*DOI:* https://doi.org/[10.1140/epja/s10050-019-00019-5](http://dx.doi.org/10.1140/epja/s10050-019-00019-5)

1. *Название:* «Fission and Quasi-Fission Dynamics Near the Coulomb Barrier: γ Rays as Probe for their Timescale»

*Журнал:* International Symposium on Exotic Nuclei EXON-2018.

*Дата публикации:* Январь 2020 г.

*Авторы:* [A. Pulcini](https://www.worldscientific.com/doi/abs/10.1142/9789811209451_0045), [E. Vardaci](https://www.worldscientific.com/doi/abs/10.1142/9789811209451_0045), [E. M. Kozulin](https://www.worldscientific.com/doi/abs/10.1142/9789811209451_0045), [M. Ashaduzzaman](https://www.worldscientific.com/doi/abs/10.1142/9789811209451_0045), [C. Borcea](https://www.worldscientific.com/doi/abs/10.1142/9789811209451_0045), [A. Bracco](https://www.worldscientific.com/doi/abs/10.1142/9789811209451_0045), [S. Brambilla](https://www.worldscientific.com/doi/abs/10.1142/9789811209451_0045), [S. Calinescu](https://www.worldscientific.com/doi/abs/10.1142/9789811209451_0045), [F. Camera](https://www.worldscientific.com/doi/abs/10.1142/9789811209451_0045), [M. Ciemala](https://www.worldscientific.com/doi/abs/10.1142/9789811209451_0045), [F. Davide](https://www.worldscientific.com/doi/abs/10.1142/9789811209451_0045), [B. de Canditiis](https://www.worldscientific.com/doi/abs/10.1142/9789811209451_0045), [A. Di Nitto](https://www.worldscientific.com/doi/abs/10.1142/9789811209451_0045), [S. Dmitriev](https://www.worldscientific.com/doi/abs/10.1142/9789811209451_0045), [O. Dorvaux](https://www.worldscientific.com/doi/abs/10.1142/9789811209451_0045),  [I. M. Harca](https://www.worldscientific.com/doi/abs/10.1142/9789811209451_0045), [I. M. Itkis](https://www.worldscientific.com/doi/abs/10.1142/9789811209451_0045), [V. V. Kirakosyan](https://www.worldscientific.com/doi/abs/10.1142/9789811209451_0045), [G. Knyazheva](https://www.worldscientific.com/doi/abs/10.1142/9789811209451_0045), [N. Kozulina](https://www.worldscientific.com/doi/abs/10.1142/9789811209451_0045), [I. V. Kolesov](https://www.worldscientific.com/doi/abs/10.1142/9789811209451_0045), [G. La Rana](https://www.worldscientific.com/doi/abs/10.1142/9789811209451_0045), [A. Maj](https://www.worldscientific.com/doi/abs/10.1142/9789811209451_0045), [I. Matea](https://www.worldscientific.com/doi/abs/10.1142/9789811209451_0045), [**K. Novikov**](https://www.worldscientific.com/doi/abs/10.1142/9789811209451_0045), [C. Petrone](https://www.worldscientific.com/doi/abs/10.1142/9789811209451_0045), [D. Quero](https://www.worldscientific.com/doi/abs/10.1142/9789811209451_0045), [P. K. Rath](https://www.worldscientific.com/doi/abs/10.1142/9789811209451_0045), [E. Saveleva](https://www.worldscientific.com/doi/abs/10.1142/9789811209451_0045), [C. Schmitt](https://www.worldscientific.com/doi/abs/10.1142/9789811209451_0045), [G. Sposito](https://www.worldscientific.com/doi/abs/10.1142/9789811209451_0045), [O. Stezowski](https://www.worldscientific.com/doi/abs/10.1142/9789811209451_0045), [W. H. Trzaska](https://www.worldscientific.com/doi/abs/10.1142/9789811209451_0045) and [J. Wilson](https://www.worldscientific.com/doi/abs/10.1142/9789811209451_0045)

*DOI:*  https://doi.org/[10.1142/9789811209451\_0045](http://dx.doi.org/10.1142/9789811209451_0045)

1. *Название:* «Study of competing Fission and Quasifission modes involved in 54Cr+ 248Cm leading to formation of superheavy nucleus AZ= 302120»

*Журнал:* International Conference on New Frontiers in Nuclear Physics (ICNFNP 2019) At: BHU Varanasi.

*Дата публикации:* Октябрь 2019 г.

*Авторы:* 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

*DOI:*https://www.researchgate.net/publication/336681189\_Study\_of\_competing\_Fission\_and\_Quasifission\_modes\_involved\_in\_54\_Cr\_248\_Cm\_leading\_to\_formation\_of\_superheavy\_nucleus\_A\_Z\_302\_120

1. *Название:* «Fission and quasifission of the composite system Z = 114 formed in heavy-ion reactions at energies near the Coulomb barrier»

*Журнал:* PHYSICAL REVIEW C 99, 014616.

*Дата публикации:* Январь 2019 г.

*Авторы:* 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, and I. V. Vorobiev

*DOI:* https://doi.org/[10.1103/PhysRevC.99.014616](http://dx.doi.org/10.1103/PhysRevC.99.014616)

1. *Название:* «Searching for the Superasymmetric Fission Mode of 248Cf, 254Fm, and 260No in Reactions 22Ne + 232Th, 238U; 16O + 232Th, 238U»

*Журнал:* Bulletin of the Russian Academy of Sciences: Physics, 2018, Vol. 82, No. 6, pp. 716–720.

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