Список публикаций за 5 лет научного сотрудника ЛЯР Ю.С.Цыганова

1. **Синтез и изучение свойств сверхтяжелых ядер ^{294}Ts и ^{294}Og**

А.А. Воинов, В.К. Утенков, Ю.Ц. Оганесян, Ф.Ш. Абдуллин, А.Н. Поляков, Ю.С. Цыганов, И.В. Широковский, Р.Н.Сагайдак, В.Г. Субботин, С.Н. Дмитриев, М.Г. Иткис, М.В. Шумейко, Н.Д. Коврижных, А.В. Сабельников, Г.К. Востокин

Известия Российской Академии Наук, серия физическая, ISSN:0367-6765, eISSN:1062-8738 , т.84 №46 464-469 (2020)

2. **Гибкий алгоритм реального времени для работы с программным пакетом REDSTORM2**

Ю.С.Цыганов

Письма в ЭЧАЯ, т.16б №6(225)б 577-583(2019)

3. **Развитие метода активных корреляций**
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ЯДЕРНАЯ ФИЗИКА И ИНЖИНИРИНГ, №2, т.9. 181-187(2018)
4. **Alpha decay of the new isotoppe ^{204}Ac**
M.H.Huang, Z.G.Gan, Z.Y.Zhang, L.Ma, J.C.Wang, M.M.Zhang, H.B.Yang, X.Y.Huang, Z.Zhao, S.Y.Xu, L.H.Chen, X.J.Wen, Y.F.Niu, C.X.Yuan, Y.L.Tian, Y.S.Wang, J.Y.Wang, M.L.Liu, Y.H.Qiang, W.Q.Yang, H.B.Zhang, Z.W.Lu, S.Guo, W.H.Huang, Y.He, Z.Z.Ren, S.G.Zhou, X.S.Xu, V.K.Utyonkov, A.A.Voinov, Yu.S.Tsyganov, A.H.Поляков
Physics Letters B 834, №1(2022) , 137484
5. **Flexible algorithms for background suppression in heavy ion induced nuclear reactions**
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Eurasian Journal of Physics and Functional Materials б, т.6, №1,18-31 (2022)

6. **DGFRS-2—A gas-filled recoil separator for the Dubna Super Heavy Element Factory**
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Nuclear Instruments and Methods in Physics Research Section A: Accelerators, 1033, 166640(2022)
7. **New isotope ^{207}Th and odd-even staggering in alpha-decay energies for nuclei with Z > 82 and N < 126**
H.B.Yang, Z.G.Gan, Z.Y.Zhang, M.H.Huang, L.Ma, M.M.Zhang, C.H.Yuan, Y.F.Niu, C.L.Yang, Y.L.Tian, L.Guo, Y.S.Wang, H.B.Zhou, {.J.Wen, H.R.Yang, X.H.Zhou, Y.H.Zhang, W.H.Huang, Z.Liu, S.G.Zhou, Z.Z.Ren, H.S.Hu, V.K.Utyonkov, A.A.Voinov, Yu.S.Tsyganov, A.N.Polyakov, D.I.Solovyev
Physical Review C 105, L051302(2022)

8. **Investigation of ^{48}Ca-induced reactions with ^{242}Pu and ^{238}U targets at the JINR Superheavy Element Factory**
   Yu. Ts. Oganessian, V. K. Utyonkov, D. Ibadullayev, F. Sh. Abdullin, S. N. Dmitriev, M. G. Itkis, A. V. Karpov, N. D. Kovrizhnykh, D. A. Kuznetsov, O. V. Petrushkin, A. V. Podshibiakin, A. N. Polyakov, A. G. Popeko, R. N. Sagaidak, L. Schlattauer, V. D. Shubin, M. V. Shumeiko, D. I. Solovyev, Yu. S. Tsyganov, A. A. Voinov, V. G. Subbotin, A. Yu. Bodrov, A. V. Sabel'nikov, A. Lindner, K. P. Rykaczewski, T. T. King, J. B. Roberto, N. T. Brewer, R. K. Grzywacz, Z. G. Gan, Z. Y. Zhang, M. H. Huang, and H. B. Yang
   Physical Review C, 106, 2,024612-1-024612-13 (2022)
9. **First experiment at the Super Heavy Element Factory: High cross section of ^{288}Mc in the ^{243}Am + ^{48}Ca reaction and identification of the new isotope ^{264}Lr**
   Yu. Ts. Oganessian, V. K. Utyonkov, N. D. Kovrizhnykh, F. Sh. Abdullin, S. N. Dmitriev, D. Ibadullayev, M. G. Itkis, D. A. Kuznetsov, O. V. Petrushkin, A. V. Podshibiakin, A. N. Polyakov, A. G. Popeko, R. N. Sagaidak, L. Schlattauer, I. V. Shirokovski, V. D. Shubin, M. V. Shumeiko, D. I. Solovyev, Yu. S. Tsyganov, A. A. Voinov, V. G. Subbotin, A. Yu. Bodrov, A. V. Sabel'nikov, A. V. Khalkin, V. B. Zlokazov, K. P. Rykaczewski, T. T. King, J. B. Roberto, N. T. Brewer, R. K. Grzywacz, Z. G. Gan, Z. Y. Zhang, M. H. Huang and H. B. Yang
   Physical Review C, 106, L031301(2022)
10. **YDA C++ PROGRAM PACKAGE FOR OPERATING WITH A NEW ANALOG SPECTROMETER OF DGFRS-II SETUP**
    D. Ibadullayev, Yu.S. Tsyganov, D.I. Solovyov, M.V. Shumeiko
    Acta Phys. Polonica, 14, №4, 873-878 (2021)
11. **NEW ANALOG SPECTROMETER OF THE DGFRS2 SETUP FOR REAL-TIME SEARCHING OF ER-alpha AND alpha–alpha CORRELATED SEQUENCES IN HEAVY-ION INDUCED COMPLETE FUSION NUCLEAR REACTIONS**
    Yu.S. Tsyganov, D. Ibadullayev, A.N. Polyakov, A.A. Voinov, V.G. Subbotin, L. Schlattauer, D.A. Kuznetsov, V.D. Shubin
    Acta Physica Polonica B , 14 №4, 767-774 (2021)
12. **REDSTORM2 C++ Program Package for the New Gas-Filled Recoil Separator at the FLNR JINR**
    Yu.S.Tsyganov
    Physics of Particles and Nuclei Letters, 16, №4, 333-342(2019)
13. **Low-Background techniques in nuclear physics**
    Yu.S.Tsyganov, S.V.Barinova
    Physics of Particles and Nuclei Letters, 16, №5 , 544-553(2019)
14. **Effect of shell correction on the alpha-decay properties of $^{280-305}$Fl isotopes**
    Zhihuai Ge, Cheng Li, Gen Zhang, Bing Li, Xinxin Xu, Cheikh A.T. Sokhna, Xiaojun Bao, Hongfei Zhang, Yu.S.Tsyganov, Feng-Shou Zhang
    Physical Review C 98, 034312, 034312-03412-9 (2018)
15. **On the initial conditions for real-time technique to suppress background signals in complete fusion nuclear reactions**
    D. Ibadullayev, A.N. Polyakov, Yu.S. Tsyganov, A.N. Voinov
    IEEE TexRxiv.20108918.v1 (2022)
16. **Wide-range T_α-Q_α formula for real time application**
    D. Ibadullayev, Yu. S. Tsyganov
    arXiv:2205.11810 (2022)
17. **Flexible scenario for heavy element research**
    D.Ibadullayev, A.N.Polyakov, Yu.S.Tsyganov, A.A.Voinov
    Arxiv 2202.03064 (2022)
18. **Synthesizing and Studying Superheavy Nuclei ^{294}Ts and ^{294}Og**
    A.A.Voinov, V.K.Utyonkov, Yu.Ts.Oganessian, F.Sh.Abdullin, A.N.Polyakov, Yu.S.Tsyganov,I.V.Shirokovsky, R.N.Sagaidak, V.G.Subbotin, S.N.Dmitriev, M.G.Itkis, M.V.Shumeiko, N.D.Kovrizhnykh, A.V.Sabelnikov, G.K.Vostokin Bulletin of the Russian Academy of Sciences: Physics, (2020) 84, No.4, 351-355

19. **Theoretical predictions for α-decay properties of $^{283-339}$Og using a shell-effect induced generalized liquid-drop model**

Zhishuai Ge, Gen Zhang, Shihui Cheng, Yuling Li, Ning Su, Wuzheng Guo, Yu. S. Tsyganov, Feng-Shou Zhang.

Eur. Phys. J. A, 55, 166 (2019)

20. Study of Neutron-Deficient nuclei in the ^{239,240}Pu+^{48}Ca Reactions

M.V. Shumeiko, V.K. Utyonkov, N.T. Brewer, Yu.Ts. Oganessian, K.P. Rykaczewski, F.Sh. Abdullin, S.N. Dmitriev, R.K. Grzywacz, M.G. Itkis, K. Miernik, A.N. Polyakov, J.B. Roberto, R.N. Sagaidak, I.V. Shirokovsky, Yu.S. Tsyganov, A.A. Voinov, V.G. Subbotin, A.M. Sukhov, A.V. Karpov, A.G. Popeko, A.V. Sabel'nikov, A.I. Svirikhin, G.K. Vostokin, J.H. Hamilton, N.D. Kovrizhnykh, L. Schlattauer, M.A. Stoyer, Z. Gan, W.X. Huang, L. Ma

Proceedings of the International Symposium on Exotic Nuclei "EXON-2018", Petrozavodsk, Russia, 10-15 September 2018, p.250-255, Editors Yu.E. Penionzhkevich and Yu.G. Sobolev, World Scientific, Singapore, 2020.

21. **Experimental Study of the $^{249-251}$Cf+^{48}Ca Reactions: Toward the Magic Neutron Number N=184**

A.A. Voinov, N.T. Brewer, V.K. Utyonkov, K.P. Rykaczewski, Yu.Ts. Oganessian, F.Sh. Abdullin, R.A. Boll, D.J. Dean, S.N. Dmitriev, J.G. Ezold, L.K. Felker, R.K. Grzywacz, M.G. Itkis, N.D. Kovrizhnykh, D. C. McInturff, K. Miernik, G.D. Owen, A.N. Polyakov, A.G. Popeko, J.B. Roberto, A.V. Sabelnikov, R.N. Sagaidak, I.V. Shirokovsky, M.V. Shumeiko, N.J. Sims, E.H. Smith, V.G. Subbotin, A.M. Sukhov, A.I. Svirikhin, Yu.S. Tsyganov, S.M. Van Cleve, G.K. Vostokin, C.S. White, J.H. Hamilton, and M. A. Stoyer

Proceedings of the International Symposium on Exotic Nuclei "EXON-2018", Petrozavodsk, Russia, 10-15 September 2018, p.271-277, Editors Yu.E. Penionzhkevich and Yu.G. Sobolev, World Scientific, Singapore, 2020

22. **Flexible Scenario for Background Suppression in Heavy Element Research**

D.Ibadullayev, Yu.S.Tsyganov, A.N.Polyakov, A.A.Voinov, M.V.Shumeiko

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