

Перечень публикаций

[1] 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, M.V. Shumeiko, 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. **Neutron-deficient superheavy nuclei obtained in the $^{240}\text{Pu}+^{48}\text{Ca}$ reaction.** *Physical Review C* **97**, 014320-1-10 (2018).

[2] 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. Popeko¹, J.B. Roberto, A.V. Sabel'nikov, 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, A.A. Voinov, G.K. Vostokin, C.S. White, J.H. Hamilton, and M. A. Stoyer. **Search for the heaviest atomic nuclei among the products from reactions of mixed-Cf with a ^{48}Ca beam.** *Physical Review C* **98**, 024317 (2018).

[3] 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. **Study of Neutron-Deficient nuclei in the $^{239,240}\text{Pu}+^{48}\text{Ca}$ Reactions.** 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.

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

[5] Yu.Ts. Oganessian, V.K. Utyonkov, A.G. Popeko, D.I. Solovyev, F.Sh. Abdullin, S.N. Dmitriev, D. Ibadullayev, M.G. Itkis, N.D. Kovrizhnykh, D.A. Kuznetsov, O.V. Petrushkin, A.V. Podshibiakin, A.N. Polyakov, R.N. Sagaidak, L. Schlattauer, I.V. Shirokovsky, V.D. Shubin, M.V. Shumeiko, Yu.S. Tsyganov, A.A. Voinov, V.G. Subbotin, V.V. Bekhterev, N.A. Belykh, O.A. Chernyshev, K.B. Gikal, G.N. Ivanov, A.V. Khalkin, V.V. Konstantinov, N.F. Osipov, S.V. Paschenko, A.A. Protasov, V.A. Semin, V.V. Sorokoumov, K.P. Sychev, V.A. Verevchkin, B.I. Yakovlev, S. Antoine, W. Beeckman, P. Jehanno, M.I. Yavor, A.P. Shcherbakov, K.P. Rykaczewski, T.T. King, J.B. Roberto, N.T. Brewer, R.K. Grzywacz, Z.G. Gan, Z.Y. Zhang, M.H. Huang, H.B. Yang. **DGFRS-2 –A gas-filled recoil separator for the Dubna Super Heavy Element Factory.** *Nuclear Instruments and Methods in Physics Research, A* **1033** 166640 (2022).

[6] D.I. Solovyev and N.D. Kovrizhnykh.

Simulations of recoil trajectories in Dubna Gas-Filled Recoil Separator 2 by GEANT4 toolkit. Journal of Instrumentation **17**, P07033 (2022).

[7] 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. **Investigation of ^{48}Ca -induced reactions with ^{242}Pu and ^{238}U targets at the JINR Superheavy Element Factory.** Physical Review C **106**, 026412 (2022).

[8] 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. Petrushkin¹, 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. **First experiment at the Super Heavy Element Factory: High cross section of ^{288}Mc in the $^{243}\text{Am}+^{48}\text{Ca}$ reaction and identification of the new isotope ^{264}Lr .** Physical Review C **106**, L031301 (2022).

[9] Yu.Ts. Oganessian, V.K. Utyonkov, N.D. Kovrizhnykh, F.Sh. Abdullin, S.N. Dmitriev, A.A. Dzhioev, D. Ibadullayev, M.G. Itkis, A.V. Karpov, D.A. Kuznetsov, O.V. Petrushkin, A.V. Podshibiakin, A.N. Polyakov, A.G. Popeko, I.S. Rogov, 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.V. Khalkin, 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. **New isotope ^{286}Mc produced in the $^{243}\text{Am} + ^{48}\text{Ca}$ reaction.** Physical Review C **106**, 064306 (2022).

[10] Yu.Ts. Oganessian, V.K. Utyonkov, D.I. Solovyev, F.Sh. Abdullin, S.N. Dmitriev, D. Ibadullayev, M.G. Itkis, 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, Yu.S. Tsyganov, A.A. Voinov, V.G. Subbotin, A.Yu. Bodrov, A.V. Sabel'nikov, K.P. Rykaczewski, T.T. King, J.B. Roberto, N.T. Brewer, R.K. Grzywacz, Z.G. Gan, Z.Y. Zhang, M.H. Huang, H.B. Yang. **Average charge states of heavy ions in rarefied hydrogen.** Nuclear Instruments and Methods in Physics Research, A **1048** (2023) 167978.

[11] D.I. Solovyev, N.D. Kovrizhnykh, G.G. Gulbekyan, N.Y. Kazarinov, K.B. Gikal, V.I. Lisov, K.V. Papenkov. **Simulation of ion optics in a gas-filled solenoid GASSOL.** Nuclear Instruments and Methods in Physics Research, A **1052** (2023) 168263.

[12] D. I. Solovyev, N. D. Kovrizhnykh, V. K. Utyonkov, Yu.Ts. Oganessian, F.Sh. Abdullin, A.A. Voinov, 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, V.D. Shubin, M.V. Shumeiko, and Yu.S. Tsyganov. **Simulated and experimental characteristics of a gas-filled recoil separator DGFERS-2.** Bulletin of the Russian Academy of Sciences: Physics, Vol. 87, No 8, pp. 1253-1259, 2023.

[13] Yu.Ts. Oganessian, V.K. Utyonkov, M.V. Shumeiko, F.Sh. Abdullin, S.N. Dmitriev, D. Ibadullayev, M.G. Itkis, N.D. Kovrizhnykh, D.A. Kuznetsov, O.V. Petrushkin, A.V. Podshibiakin, A.N. Polyakov, A.G. Popeko, I.S. Rogov, R.N. Sagaidak, L. Schlattauer, V.D. Shubin, D.I. Solovyev, Yu.S. Tsyganov, A.A. Voinov, V.G. Subbotin, N.S. Bublikova, M.G.

Voronyuk, A.V. Sabelnikov, A.Yu. Bodrov, Z. G. Gan, Z. Y. Zhang, M. H. Huang, and H. B. Yang. **New isotope ^{276}Ds and its decay products ^{272}Hs and ^{268}Sg from the $^{232}\text{Th} + ^{48}\text{Ca}$ reaction.** *Physical Review C* **108**, 024611 (2023).

[14] N. D. Kovrizhnykh, Yu. Ts. Oganessian, V. K. Utyonkov, F. Sh. Abdullin, S. N. Dmitriev, A. A. Dzhioev, D. Ibadullayev, M. G. Itkis, A. V. Karpov, D. A. Kuznetsov, O. V. Petrushkin, A. V. Podshibiakin, A. N. Polyakov, A. G. Popeko, I. S. Rogov, 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, and A. V. Khalkin. **First Experiment at the Super Heavy Element Factory: New Data from the $^{243}\text{Am} + ^{48}\text{Ca}$ Reaction.** *Bulletin of the Russian Academy of Sciences: Physics*, 2023, Vol. 87, No. 8, pp. 1098–1104. КОВРИЖНЫХ Н.Д., ОГАНЕСЯН Ю.Ц., УТЕНКОВ В.К., АБДУЛЛИН Ф.Ш., ДМИТРИЕВ С.Н., ДЖИОЕВ А.А., ИБАДУЛЛАЕВ Д. ИТКИС М.Г., КАРПОВ А.В., КУЗНЕЦОВ Д.А., ПЕТРУШКИН О.В., ПОДШИБЯКИН А.В., ПОЛЯКОВ А.Н., ПОПЕКО А.Г., РОГОВ И.С., САГАЙДАК Р.Н., ШЛАТТАУЭР Л., ШУБИН В.Д., ШУМЕЙКО М.В., СОЛОВЬЕВ Д.И., ЦЫГАНОВ Ю.С., ВОИНОВ А.А., СУББОТИН В.Г., БОДРОВ А.Ю., САБЕЛЬНИКОВ А.В., ХАЛКИН А.В., ПЕРВЫЙ ЭКСПЕРИМЕНТ НА ФАБРИКЕ СВЕРХТЯЖЕЛЫХ ЭЛЕМЕНТОВ: НОВЫЕ ДАННЫЕ В РЕАКЦИИ $^{243}\text{AM} + ^{48}\text{CA}$, ИЗВЕСТИЯ РОССИЙСКОЙ АКАДЕМИИ НАУК. СЕРИЯ ФИЗИЧЕСКАЯ 87, 1077-1083 (2023).

[15] D. Ibadullayev, V. K. Utyonkov, Yu. Ts. Oganessian, 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, Sh. G. Giniyatova, and K. A. Kuterbekov. **Study of the $^{242}\text{Pu} + ^{48}\text{Ca}$ Reaction at Super Heavy Element Factory.** *Bulletin of the Russian Academy of Sciences: Physics*, 2023, Vol. 87, No. 8, pp. 1118–1122. ИБАДУЛЛАЕВ Д., УТЕНКОВ В.К., ОГАНЕСЯН Ю.Ц., АБДУЛЛИН Ф.Ш., ДМИТРИЕВ С.Н., ИТКИС М.Г., КАРПОВ А.В., КОВРИЖНЫХ Н.Д., КУЗНЕЦОВ Д.А., ПЕТРУШКИН О.В., ПОДШИБЯКИН А.В., ПОЛЯКОВ А.Н., ПОПЕКО А.Г., САГАЙДАК Р.Н., ШЛАТТАУЭР Л., ШУБИН В.Д., ШУМЕЙКО М.В., СОЛОВЬЕВ Д.И., ЦЫГАНОВ Ю.С., ВОИНОВ А.А., СУББОТИН В.Г., БОДРОВ А.Ю., САБЕЛЬНИКОВ А.В., ГИНИЯТОВА Ш.Г., КУТЕРБЕКОВ К.А., ИССЛЕДОВАНИЕ РЕАКЦИИ $^{242}\text{PU} + ^{48}\text{CA}$ НА ФАБРИКЕ СВЕРХТЯЖЕЛЫХ ЭЛЕМЕНТОВ, ИЗВЕСТИЯ РОССИЙСКОЙ АКАДЕМИИ НАУК. СЕРИЯ ФИЗИЧЕСКАЯ 87, 1099-1103 (2023).

[16] Dastan Ibadullayev, Vladimir K. Utyonkov, Yury Ts. Oganessian, Farid Sh. Abdullin, Sergey N. Dmitriev, Mikhail G. Itkis, Alexander V. Karpov, Nikita D. Kovrizhnykh, Dmitriy A. Kuznetsov, Oleg V. Petrushkin¹, Alexander V. Podshibiakin, Alexander N. Polyakov, Andrey G. Popeko, Roman N. Sagaidak, Leo Schlattauer, Vladimir D. Shubin, Maxim V. Shumeiko, Dmitriy I. Solovyev, Yury S. Tsyganov, Alexey A. Voinov, Vladimir G. Subbotin, Alexander Yu. Bodrov, Alexey V. Sabel'nikov, Antonin Lindner, Krzysztof P. Rykaczewski, Thomas T. King, James B. Roberto, Nathan T. Brewer, Robert K. Grzywacz, Zaiguo Gan, Zhiyuan Zhang, Minghui Huang, Huabin Yang. **Improved Data for Isotopes in the Decay Chain of Super Heavy Nucleus ^{283}Cn .** *The IV International Scientific Forum "Nuclear Science and Technologies"* AIP Conf. Proc. 3020, 020004-1–020004-6.

[17] Yu.Ts. Oganessian, V.K. Utyonkov, M.V. Shumeiko, F.Sh. Abdullin, G.G. Adamian, S.N. Dmitriev, D. Ibadullayev, M.G. Itkis, N.D. Kovrizhnykh, D.A. Kuznetsov¹, O.V. Petrushkin, A.V. Podshibiakin, A.N. Polyakov, A.G. Popeko, I.S. Rogov, R.N. Sagaidak, L. Schlattauer, V.D. Shubin, D.I. Solovyev, Yu.S. Tsyganov, A.A. Voinov, V.G. Subbotin, N.S. Bublikova, M.G. Voronyuk, A.V. Sabelnikov, A.Yu. Bodrov, N.V. Aksenov, A.V. Khalkin, Z.G. Gan, Z. Y. Zhang, M. H. Huang, and H. B. Yang. **Synthesis and decay properties of isotopes**

of element 110: ^{273}Ds and ^{275}Ds . *Physical Review C* **109**, 054307 (2024).

[18] R.N. Sagaidak, V.K. Utyonkov, F.Sh. Abdullin, S.N. Dmitriev, D. Ibadullayev, M.G. Itkis, N.D. Kovrizhnykh, D.A. Kuznetsov, O.V. Petrushkin, A.V. Podshibiakin, A.N. Polyakov, A.G. Popeko, V.D. Shubin, M.V. Shumeiko, D.I. Solovyev, Yu.S. Tsyganov, A.A. Voinov, N.S. Bublikova, M.G. Voronyuk, A.V. Sabelnikov, A.Yu. Bodrov, Z.G. Gan, Z.Y. Zhang, M.H. Huang, H.B. Yang, and X.Y. Huang. **Production of Th nuclei in the $^{48}\text{Ca} + ^{170}\text{Yb}$ and $^{54}\text{Cr} + ^{164}\text{Dy}$ reactions.** *Physical Review C* **110**, 044609 (2024).