

List of Publication in Journals with Impact Factor:

P. Kohout, A. Kohoutova, L. Schlattauer, A. Opíchal, L. Kouřil, J. Pechoušek. PXI-Compatible Preamplifier and Amplifier for Proportional Gas Counters for Mössbauer Spectroscopy. *Phys. Part. Nuclei Lett.* (2024) 21, 719–722.

<https://doi.org/10.1134/S1547477124701176>

A. Kohoutova, L. Krupa, A.M. Rodin, E.V. Chernysheva, A.V. Gulyaev, A.V. Gulyaeva, J. Kliman, P. Kohout, A.B. Komarov, N. Yu. Kurkova, A. Maheer, A.S. Novoselov, A. Opíchal, J. Pechousek, V.S. Salamatin, S.V. Stepantsov, A.V. Podshibyakin, V.Yu. Vedeneev, S.A. Yukhimchuk. Extraction Time Simulations of a Cryogenic Gas Stopping Cell Designed to Study the Properties of Superheavy Elements. *Phys. Part. Nuclei Lett.* (2024) 21, 701–704.

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V. Yu. Vedeneev, A. M. Rodin, L. Krupa, A. M. Abakumov, E. V. Chernysheva, A. V. Gulyaev, A. V. Gulyaeva, P. Kohout, A. Kohoutova, A. B. Komarov, N. Yu. Kurkova, A. S. Novoselov, A. Opíchal, A. V. Podshibyakin, V. S. Salamatin & S. A. Yukhimchuk. A Cryogenic Gas-Filled Ion Stopping Cell as an Instrument for Experimental Study of Heaviest Nuclei. *Phys. Part. Nuclei Lett.* (2024) 21, 611–614.

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D. Kamas, A. Opíchal, E. V. Chernysheva, S. N. Dmitriev, A. V. Gulyaev, A. V. Gulyaeva, M. Holik, J. Kliman, A. B. Komarov, L. Krupa, A. S. Novoselov, Y. T. Oganessian, A. V. Podshibyakin, A. M. Rodin, V. S. Salamatin, S. V. Stepantsov, V. Y. Vedeneev, and S. A. Yukhimchuk, “Evaporation- residue cross sections in complete fusion reactions leading to Hg and Rn isotopes,” *Phys. Rev. C*, vol. 105, p. 044612, Apr 2022.

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Pavel Kohout, Lukáš Kouřil, Antonín Opíchal, Alena Kohoutová and Jiří Pechoušek. Mössbauer spectrometer with advanced modulation of gamma ray energy utilizing real-time industrial computer. *IEEE Transactions on Nuclear Physics.*, (2021) 68(8)1869–1875,

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J. Broulim, E.V. Chernysheva, S.N. Gulyaev, A.V. Gulyaeva, M. Holik, D. Kamas, J. Kliman, A.B. Komarov, L. Krupa, Y. Mora, A.S. Novoselov, A. Opíchal, J. Pechousek, A.V. Podshibyakin, A.M. Rodin, V.S. Salamatin, S.V. Stepantsov, V.Yu. Vedeneev, S.A. Yukhimchuk, “Study of neutron-rich isotopes near N=152 shell closure using Timepix type detectors integrated into the mass separator MASHA,” *J. Instrum.*, vol. 15, no. 2, 2020,

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Meruyert Mamatova, Assylkan Seitkali, Eleonora Kudaibergenova, Aleksandr Rodin, Lubos Krupa, Elena Chernysheva, Vyacheslav Vedeneev, Aleksey Novoselov, Aleksandr Podshibyakin, Vladimir Salamatin, Sergey Stepantsov, Aleksandr Gulyaev, Sergey Yukhimchuk, Aleksandr Komarov, Dusan Kamas, Anton Opíchal, and Jan Kliman. Study of Production Stability of Radon and Mercury Isotopes in Complete Fusion Reactions at the Mass-Separator MASHA by “Solid Hot Catcher” Technique. *AIP Conference Proceedings* 2163, 070002 (2019), <https://doi.org/10.1063/1.5130114>

List of Publication in Journals without Impact Factor:

E.V. Chernysheva, A.M. Rodin, V.Yu. Vedeneev, A.V. Gulyaev, A.V. Gulyaeva, M. Holik, S.N. Dmitriev, D. Kamas, J. Kliman, A.B. Komarov, L. Krupa, P. Kohout, A. Kohoutova, A.S. Novoselov, Yu. Ts. Oganessian, A. Opichal, J. Pechousek, A.V. Podshibyakin, V.S. Salamatin, S.V. Stepantsov, S.A. Yuchimchuk. Cross Sections of the Production of Mercury and Radon Isotopes in Complete Fusion Reactions with  $^{36,40}\text{Ar}$  and  $^{40,48}\text{Ca}$  Projectiles. Bull. Russ. Acad. Sci. Phys. 86, 883–888 (2022).

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