

## The acceleration and the Unruh temperature in the heavy-ion collisions at the NICA complex energies

*Tuesday 28 October 2025 14:15 (15 minutes)*

In continuation of a series of works on the study of medium effects in the heavy-ion collisions at the NICA complex energies [1-4], current investigation is focused on the acceleration and the Unruh temperature of the hadron and parton phases [5]. The analysis is performed within the framework of the Parton-Hadron-String Dynamics (PHSD) model. An acceleration in heavy-ion collisions signifies a novel direction in the current research by the scientific community, especially due to its influence on phase transitions.

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- [5] G. Yu. Prokhorov, D. A. Shohonov, O. V. Teryaev, N. S. Tsegelnik, V. I. Zakharov. arXiv:2502.10146.

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