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Prospects of studying the production of hypernuclei in heavy-ion interactions at the NICA collider at JINR

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New acceleration complex NICA (Nuclotron-based Ion Collider fAcility) as well as MultiPurpose Detector (MPD) for the study of heavy ion collisions is underway at Joint Institute for Nuclear Research (Dubna, Russia). Strangeness and hypernuclei production is presently under active experimental and theoretical investigation and is of particular interest of the NICA/MPD program. We combine several dynamical transport models and the MST cluster finding procedure to calculate the production of light nuclei and hypernuclei in heavy-ion collisions at NICA energies. The emphasis will be put on the NICA prospects for the study of the production of hypernuclei and detector performance in the reconstruction of numerous hypernuclei species.

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