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Reconstruction of Hypernuclei at NICA/MPD: a Feasibility Study

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The study of strangeness production in nuclear collisions is one f the main tasks of the NICA/MPD physics program. Essential signatures of excited and compressed baryonic matter could be provide by heavy strange objects.
Study of hypernuclei is important for:Understanding the strangeness degrees of freedom in hadronic systems; Study of all populated regions in the three-dimensional chart of the nuclides; hyperon-nucleus and hyperon-hyperon interaction can be investigated through hypernuclei.
The Monte Carlo simulations results presented show that the start version of the MPD Detector will provide good opportunity for reconstruction of hypernuclei in Au+Au colisions at NICA.

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