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## Prospects for the dense baryonic matter research at NICA

*Tuesday, 29 September 2015 14:00 (20 minutes)*

The NICA (Nuclotron-based Ion Collider fAcility) project is under preparation at the Joint Institute for Nuclear Research (JINR, Dubna). The main goal of the project is a study of hot and dense strongly interacting matter in heavy ion collisions (up to gold) in the energy range up to  $\sqrt{s_{NN}} = 11$  GeV. Two modes of operation are foreseen, collider and extracted beams, with two detectors: MPD and BM@N. In the collider mode the designed average luminosity is  $10^{27} \text{ cm}^{-2} \text{ s}^{-1}$  for Au(79+). The proposed experimental program allows one to search for manifestations of the phase transitions and critical phenomena.

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