

Feasibility study of heavy-ion collision physics at NICA JINR

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The project NICA (Nuclotron-based Ion Collider fAcility) is aimed to study hot and baryon rich QCD matter in heavy ion collisions in the energy range $\sqrt{s_{NN}} = 4 - 11$ GeV. The heavy ion program includes the study of collective phenomena, dilepton, hyperon and hypernuclei production under extreme conditions of highest baryonic density. This program will be performed with the MPD (MultiPurpose Detector) at the NICA collider with the average luminosity of $L = 1 \cdot 10^{27} \text{ cm}^{-2} \cdot \text{s}^{-1}$ (for gold-gold collisions).

Preferred Track

Future Experimental Facilities, Upgrades, and Instrumentation

Collaboration

Other

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