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Heavy ion experiments at NICA JINR

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The main goal of physics program at the Nuclotron-based Ion Collider Facility (NICA) accelerator complex is a search for the possible mixed phase of quark matter and baryon rich hadronic matter as a consequence of the first order phase transition.

Fixed target experiment Baryonic Matter at Nuclotron (BM@N) and collider experiment Multi Purpose Detector (MPD) at the NICA facility will work at the energy range from a few AGeV up to $\sqrt{s_{NN}} = 11$ GeV and will study the most interesting area on the nuclear matter phase diagram.

The status of the NICA project and a feasibility study of the considered investigations which could be performed with this experiments are reported.

Summary

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Session Classification: Plenary

Track Classification: Future Perspectives, Upgrades, Instrumentation