

New Trends in High-Energy Physics



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Status of the NICA project at JINR.

The present status of the project of new accelerator complex Nuclotron-based Ion Collider fAcility (NICA), which is under construction at JINR (Dubna), is presented. The main goal of the project is to provide ion beams for experimental studies of hot and dense strongly interacting baryonic matter and spin physics. The collider will provide heavy ion collisions in the energy range of $\sqrt{s_{NN}}=4/11$ GeV for 197Au^{79+} nuclei and polarized proton collisions in energy range of $\sqrt{s_{NN}}=12/27$ GeV. The key issue of the accelerator complex is application of sophisticated beam accumulation schemes and both stochastic and electron cooling methods. The current status of all key elements of the NICA project: HILAC, Booster, Nuclotron and Collider rings should be presented as well.

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