38th INTERNATIONAL CONFERENCE
ON HIGH ENERGY PHYSICS
AUGUST 3 - 10, 2016
CHICAGO

Contribution ID: **364** Type: **Poster**

Feasibility study of heavy ion collision physics at NICA JINR

Monday, 8 August 2016 18:30 (2 hours)

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 up to √s_NN = 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 at the Nuclotron accelerator extracted beams with the BM@N (Baryonic Matter at Nuclotron) set-up and with the MPD (MultiPurpose Detector) at the NICA collider with the average luminosity of L = 1·10ˆ27 cm−2·s−1 (for gold-gold collisions at √s_NN exceeding 9 GeV).

Primary author: Prof. KEKELIDZE, Vladimir (Joint Inst. for Nuclear Research (RU))

Co-authors: Prof. SORIN, Alexander (Joint Inst. for Nuclear Research (RU)); Prof. TRUBNIKOV, Grigory (Joint Institute for Nuclear Research, Dubna); Prof. LEDNICKY, Richard (Joint Institute for Nuclear Research, Dubna, Russia); Prof. MATVEEV, Viktor (Joint Inst. for Nuclear Research (RU))

Presenter: Prof. KEKELIDZE, Vladimir (Joint Inst. for Nuclear Research (RU))

Session Classification: Poster Session

Track Classification: Heavy Ions