

2nd workshop on "Physics performance studies at FAIR and NICA" (FANI-2020 #2)

Tuesday 08 December 2020 - Thursday 10 December 2020

Virtual via ZOOM, Moscow time

Conference Scientific Programme

The International Workshop (December 08-10, 2020, **Moscow time**) aims to promote scientific exchange and development of novel ideas on tracking, reconstruction, and physics performance studies at FAIR and NICA in heavy-ion collisions at future CBM (FAIR) and MPD (NICA) experiments. The first day will be dedicated to the following lectures: **Introductory lecture related to HIC at FAIR-NICA energies**, Prof. Peter Senger (GSI, NRNU MEPhI) **Short-lived resonances as probes of the medium produced in heavy-ion collisions**, Prof. Victor Riabov (NRC Kurchatov Institute - PNPI) **Vorticity and polarization**, Dr. Takafumi Niida (University of Tsukuba) **Overview of direct photon production in heavy-ion collisions and estimations for NICA-FAIR energies**, Dr. Dmitri Peresunko (NRC Kurchatov Institute) **Dilepton measurements**, Prof. Tetyana Galatyuk (GSI) **Track reconstruction in heavy-ion collisions**, Dr. Sergey Gorbunov (GSI) **Spectra and Hypernuclei**, Dr. Zhangbu Xu (Brookhaven National Laboratory) The second and third days of the Workshop will include talks dedicated to the following main topics: Track, vertex and resonance reconstruction methods applied to collider and fixed-target experiments Performance studies for the future CBM and MPD experiments