

1st workshop on "Physics performance studies at FAIR and NICA" (FANI-2020 #1)

Monday 24 August 2020 - Friday 28 August 2020

Virtual via ZOOM

Conference Scientific Programme

The International Workshop aims to promote scientific exchange and development of novel ideas in the area of analysis techniques for event characterization (centrality and reaction plane determination) and flow measurements in heavy-ion collisions at future CBM (FAIR) and MPD (NICA) experiments.

Related experimental activities with relativistic heavy-ions at GSI (HADES), Nuclotron (BM@N), SPS (NA61/SHINE) and RHIC BES (STAR) will be discussed. The following topics will be covered: Techniques for centrality determination (MC-Glauber based parameterizations, Machine Learning application, using spectators and produced particles)

Techniques for anisotropic flow measurements (event plane and scalar product methods with multiple subevents, cumulants, azimuthal non-uniformity corrections)

Monte-Carlo studies for future CBM and MPD experiments

Recent experimental results from GSI (HADES), Nuclotron (BM@N), SPS (NA61/SHINE) and RHIC BES (STAR) experiments