

Resonance production in heavy-ion collisions

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The short-lived resonances are playing an important role in the physical programs of heavy-ion experiments. The resonances measured in the hadronic decay channels probe the strangeness production, the hadronization mechanisms at intermediate and high transverse momenta, rescattering and regeneration effects in the hadronic phase and the spin alignment of vector mesons in heavy-ion collisions. In this presentation, we review status of resonance measurements in heavy-ion collisions at SPS, RHIC and the LHC and discuss how measurements of resonances can contribute to the physical program of experiments at NICA. Results of feasibility studies for reconstruction of resonances in the MPD experimental setup will also be presented and discussed.

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