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Energy dependence of $N_t N_p / N_d^2$ in the vicinity of a first-order chiral phase transition

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Light (anti-)nuclei produced in relativistic heavy-ion collisions, due to their composite structures, naturally encode the many-nucleon correlations. The light nuclei production is thus sensitive to the density fluctuation/correlation developed during the non-smooth phase transition from QGP to hadronic matter in relativistic heavy-ion collisions, providing a unique tool to probe the conjectured QCD critical point in the Beam Energy Scan program. In this talk, we present the most recent results of energy dependence of $N_t N_p / N_d^2$ in the vicinity of a first-order chiral phase transition. The dynamics of chiral phase transition is modelled within a Lagrangian-based transport model approach.

Present via

Online

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