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HIC simulations with different EoS models

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We have developed and performed a Bayesian analysis for selecting the most probable equation of state under a set of constraints from compact star physics, which now include the tidal deformability from GW170817. The calculations for two-parameter family of hybrid equations of state, which produces a third family of hybrid stars in the mass-radius diagram, have been made. We are preparing to apply our Bayesian analysis method also for extension of hybrid equations of state for the symmetric matter case for the finite temperatures, which will be used for HIC simulations. The results of simulations for Rapidity Distribution and Curvature at Midrapidity as well as hadron Ratios at Midrapidity will be used in Bayesian analysis method to obtain the probabilities for the model parameters within their considered range.

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