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Effects of the first-order chiral phase transition

Searching for possible signals from the QCD critical point and the associated first-order phase transition is one of the most important goals of high-energy heavy-ion experiments. Occurrence of the first-order phase transition is likely accompanied by large spatial density fluctuations due to the spinodal instabilities. Trough a transport model approach, we study effects of the first-order chiral phase transition in relativistic heavy-ion collisions. In particular, we focus on the effect of spinodal enhancement on light nuclei yield ratio.

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