

QCD critical point, conserved and nonconserved charge fluctuations, and final state interactions

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We examine some of proposed experimental signals for the QCD critical point and QCD phase transition. We then argue that final interaction effects are very important in relating physical quantities around the critical point or in the quark-gluon plasma to experimental observables. Finally, we show that it is possible to reconstruct baryon number cumulants at chemical freezeout from observed proton number cumulants.

Keywords

QCD critical point, phase transition, conserved charge fluctuation, final state interaction

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