Radial, sideward and elliptic flow from AGS to RHIC energies

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Abstract

Radial flow is very important to understand the phase transition from hadronic matter to quark matter. We extend our calculation to see the radial flow versus beam energies from AGS to RHIC in the transport model. The key issue at RHIC energies is the re-raising of radial flows to make proton slope parameter as high as 500 MeV. We will focus this problem. Moreover, the nuclear equation of state at high density can be better understood from the sideward and elliptic flow at AGS to RHIC energies. In the presentation we will focus the importance of potential in transport model to describe these flows for such high energies.