

Quark Gluon plasma equation of state with the effect of chemical potential

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We work on the quark gluon plasma equation of state (EoS) using a simple phenomenological model. In this model, a quark mass depends on both temperature as well as quark chemical potential. We compute EoS such as pressure, energy density, entropy and speed of sound with the effect of quark chemical potential. The model results provide QGP EoS. Therefore new outcomes are in excellent agreement with other theoretical as well as experimental work.

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