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A Phenomenological Quark-Gluon Density of States and its Implications for QGP-Hadron Phase Properties

Content :

We propose a polynomial with three terms for the density of quark-gluon density of states in the spirit of Balian and Bloch model, but allowing the coefficients to be free parameters to be fitted phenomenologically. By comparing with lattice QCD results, we can make the best choice of parameters to compute the thermodynamic variables of the QGP-hadron phases in quasi-equilibrium. Though the predictive power of this approach is limited, some interesting results can be obtained.

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