

Contribution ID : 108

Meta-stable States in Quark-Gluon Plasma

Content :

We study the meta-stable states in high temperature phase of QCD characterized by nonzero expectation values for the imaginary part of the Polyakov loop by using Lattice QCD. We consider two and three light dynamical staggered quarks on a lattice of size $16^3 \times 4$, and carry out simulations at various values of the coupling β to observe these states. In particular, we find the value of the coupling, β_m , above which the meta-stable states appear, and the corresponding temperature, T_m .

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Session classification : --not yet classified--

Track classification : --not yet classified--

Type : --not specified--