## erence on Physics ark Gluon Plasma

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## Thermodynamic behaviour of \$Z(3)\$ meta-stable states

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## Content :

QCD at high temperature allows for meta-stable states in the quark-gluon plasma phase. These meta-stable phases are related to the \$Z(3)\$ symmetry of the pure \$SU(3)\$ gauge theory at high temperature. These states are expected to play important role in the context of early Universe as well as in the relativistic heavy-ion collision experiments. We study the thermodynamic behavior of these meta-stable states on lattice. In particular, we compute the pressure, entropy density of these meta-stable states for different number of flavors of quarks.

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