



Contribution ID: 113

Type: Talk

Thermodynamic Potential of the Polyakov Loop in SU(3) Quenched Lattice QCD

Friday, July 21, 2023 11:00 AM (25 minutes)

In SU(3) lattice QCD, we study the effective potential (thermodynamic potential) of thermal quenched QCD in term of the Polyakov loop in the field theoretical manner for the first time. We adopt SU(3) lattice with $\beta=5.893$ and $64^3 36$, just corresponding to the critical temperature of the deconfinement phase transition. The effective potential is numerically evaluated using the reweighting method for the lattice QCD data around each Z_3 broken vacuum.

Is this abstract from experiment?

No

Name of experiment and experimental site

N/A

Is the speaker for that presentation defined?

Yes

Details

Hideo Suganuma will have a talk via Internet (Zoom).

Internet talk

Yes

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Session Classification: High Energy Particle Physics

Track Classification: Main topics: High Energy Particle Physics