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Polyakov loop correlators and cyclic Wilson loop from lattice QCD

Friday, 17 July 2015 15:00 (20 minutes)

We calculate the correlation function of Polyakov loops and the cyclic Wilson loops in 2+1 flavor QCD at non-zero temperature.
We also study the correlation function of Wilson lines in Coulomb gauge.
In our investigations we use the highly improved staggered quark (HISQ) action and lattices with temporal extent Nt=4,6,8,10 and 12.
At high temperatures we compare our numerical results with perturbation theory.

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