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Update on $N_f=3$ finite temperature QCD phase structure with Wilson-Clover fermions

Tuesday, July 26, 2016 7:00 PM (1 hour)

We will present an update on analysis of the phase structure for finite temperature QCD with 3-flavor non-perturbatively $O(a)$ improved Wilson-Clover fermions and Iwasaki gauge action.

In our previous study, it was shown that the value of kurtosis of quark condensate at the critical point tends to deviate from that of 3D Z_2 universality class when increasing the temporal lattice sizes $N_T=8$ and 10, while the values at smaller $N_T=4$ and 6 are consistent with that of Z_2 .

We will discuss possible sources of this phenomenon and present results of new analysis.

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