



Contribution ID: 202

Type: Talk

Update on the critical endpoint of the finite temperature phase transition for three flavor QCD with clover type fermions

Tuesday, 24 June 2014 14:35 (20 minutes)

We present preliminary results on the critical endpoint of three flavor QCD at zero chemical potential.

We employ the renormalization-group improved Iwasaki gauge action and $O(a)$ -improved Wilson fermion action.

The critical endpoint is determined by using the intersection points of kurtosis for mixed observable as well as plaquette, gauge action density, Polyakov loop and "chiral condensate" at the temporal size $N_t=4, 6$ and 8 .

Primary author: Dr NAKAMURA, Yoshifumi (RIKEN Advanced Institute for Computational Science)

Co-authors: Dr UKAWA, Akira (RIKEN Advanced Institute for Computational Science); Dr TAKEDA, Shinji (Kanazawa University); Dr JIN, Xiao-yong (RIKEN Advanced Institute for Computational Science); Prof. KURAMASHI, Yoshinobu (Tsukuba University/CCS/RIKEN Advanced Institute for Computational Science)

Presenter: Dr NAKAMURA, Yoshifumi (RIKEN Advanced Institute for Computational Science)

Session Classification: Nonzero temperature and Density

Track Classification: Nonzero Temperature and Density