



Contribution ID: 244

Type: Oral Presentation

Lattice QCD thermodynamics in the presence of the charm quark

Thursday, 16 August 2012 15:00 (20 minutes)

We present our estimate for the charm quark's contribution to the equation of state and to the fluctuations of conserved charges. Our results are based on simulations with dynamical charm at physical quark masses. We also address the question, to what extent staggered simulations are reliable. We give comparisons with the Wilson formulation as well as with results using dynamical overlap fermions.

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Session Classification: Parallel 5B: QCD at Finite Temperature and Density (Chair F. Karsch)

Track Classification: QCD at finite temperature and density