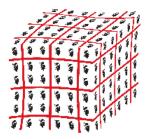
Lattice2010



Contribution ID: 306 Type: not specified

Continuum Thermodynamics of the SU(N) Gauge Theory

Thursday, 17 June 2010 17:40 (20 minutes)

The thermodynamics of the deconfined phase of the SU(N) gauge theory is studied. Careful study is made of the approach to the continuum limit. The latent heat of the deconfinement transition is studied, for the theories with 3, 4 and 6 colors. Continuum estimates of various thermodynamic quantities are studied, and the approach to conformality investigated. The bulk thermodynamic quantities at different N are compared, to investigate the validity of 'tHooft scaling at these values of N.

Please, insert your presentation type (talk, poster)

talk

Primary author: DATTA, Saumen (Tata Institute of Fundamental Research, Mumbai)

Co-author: Prof. GUPTA, Sourendu (Tata Institute of Fundamental Research, Mumbai)

Presenter: DATTA, Saumen (Tata Institute of Fundamental Research, Mumbai)Session Classification: Parallel 40: Nonzero temperature and density

Track Classification: Nonzero temperature and density