

Abstract Submitted  
for the DNP07 Meeting of  
The American Physical Society

**Thermodynamics of 2+1 flavor QCD at small quark masses** PETER PETRECKZY, BNL — I am going to present new results in 2+1 flavor lattice QCD simulations at finite temperature at small quark masses from RBC-Bielefeld Collaboration. The strange quark mass was fixed to its physical value, while light quark masses corresponding to pion mass of 200MeV was used. Calculations of the equation of state of strongly interacting matter, fluctuations of conserved charges and free energy of static quark anti-quark pair will be discussed.

Peter Petreczky  
BNL

Date submitted: 26 Jun 2007

Electronic form version 1.4