

Abstract Submitted
for the HAW14 Meeting of
The American Physical Society

Analysis of 2 color Lattice QCD results by using effective model

TAKAHIRO MAKIYAMA, HIROAKI KOUNO, Saga University — We analyze the results of 2 color Lattice QCD at finite temperature and finite density with effective model. We use Polyakov-loop extended Nambu-Jona-Lasinio (PNJL) model as effective model. First, we study the properties at the real and imaginary chemical potential (μ). Then, we study the phase transition line that depends on μ . Finally, we discuss what is important for our effective model to reproduce the lattice simulation results.

Takahiro Makiyama
Saga University

Date submitted: 01 Jul 2014

Electronic form version 1.4