

THEORETICAL PHYSICS SEMINAR

Title: Improving hadron resonance gas model

Speaker: Guruprasad Prakash Kadam, THEPH PRL

Date/Time/Venue: 23rd July (Thursday)/4:00 PM/ Room No. 469

ABSTRACT

Albeit the canonical non interacting hadron resonance gas (HRG) model is successful in describing (the thermodynamics of) hadronic phase of quantum chromodynamics, it ignores two important features of hadronic matter; that there exist short range repulsive interaction between hadrons and hadron masses are depends on temperature (and baryon density) which is rather upshot of the chiral symmetry. In this seminar I will discuss our current endeavour to improve the canonical non-interacting HRG model with an equation of state accounting for the repulsive interaction between hadrons as well as temperature (and density) dependent hadron masses.

All are welcome to attend