

THEORETICAL PHYSICS SEMINAR

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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

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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