

Department of Theoretical Physics

Free Meson Seminar

<i>Speaker</i>	:	Vinod Chandra Joshi
<i>Topic</i>	:	A quasi-particle description of (2+1)-flavor lattice QCD equation of state
<i>Day, Date & Time</i>	:	Thursday, October 7, 2010 at 2:30 p.m.
<i>Place</i>	:	AG 69

Abstract

A quasi-particle description has been proposed to interpret recent lattice data on (2+1)-flavour hot QCD equation of state (EOS). The description is based on mapping the non-ideal (interacting) part of the EOS in to effective fugacities for quasi-gluons and quasi-quarks. As implications of the model, we study, a Virial expansion for hot QCD which highlights the role of interactions, and temperature dependence of the bulk viscosity.

(Nilmani Mathur)