XIIth Quark Confinement and the Hadron Spectrum



Contribution ID: 153 Type: not specified

Recent progress in hard-thermal-loop QCD thermodynamics and collective excitations

Thursday, 1 September 2016 17:30 (30 minutes)

I review recent developments in QCD thermodynamics and collective excitations from the hard-thermal-loop effective theory. I begin by motivating the discussion with open questions from heavy-ion collisions. I then discuss a finite-temperature and density calculation of QCD thermodynamics at NNLO from the hard-thermal-loop perturbation theory. Finally, I discuss a recent exploration of generalizing the hard-thermal-loop framework to the (chromo)magnetic scale g^2T , from which a novel massless mode is uncovered.

Summary

Primary author: SU, Nan (Frankfurt Institute for Advanced Studies)

Presenter: SU, Nan (Frankfurt Institute for Advanced Studies)

Session Classification: Section D

Track Classification: Section D: Deconfinement