

Physics Seminar

Wednesday, November 19 at 2:00pm, SCGP room 313

Speaker: Minjae Choi

Title: Bootstrapping the physics at finite temperature

Abstract: Physical systems at finite temperature present a rich array of intriguing questions.

However, studying their physical observables is not always straightforward, as it a priori requires tracing over the entire state space. In this talk, we explore how the bootstrap approach of imposing consistency conditions provides a powerful framework for studying finite temperature observables in both classical and quantum mechanical systems. We focus on two prototypical examples to illustrate this idea: the statistical Ising model on the lattice and large N matrix quantum mechanics. For the latter, we discuss bootstrap results for both one-point and two-point correlators.