Remarks on the Maximum Entropy Method applied to finite temperature lattice QCD

Presenter: Takashi Umeda

Takashi Umeda and Hideo Matsufuru

Abstract: We make some remarks on the Maximum Entropy Method (MEM) for studies of the spectral function of hadronic correlators in finite temperature lattice QCD. We discuss the virtues and subtlety of MEM for the cases that one does not have enough number of data points such as at finite temperature. Taking these points into account, we suggest several tests which one should examine to keep the reliability for the results, and also apply them using mock and lattice QCD data.