

Joint seminar of the NPI of the CAS

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Lattice QCD as a Discovery Tool

There are two common misconceptions about lattice QCD. The first one is that it is only a model of "true QCD". The second one is that lattice QCD is only good to obtain estimates of certain non-perturbative quantities we are unable to get otherwise. While the fallacy of the first statement is obvious, the second one is losing its merit. Indeed, inferring new qualitative features of interacting quarks and gluons based on the behavior of lattice regularization is not a mere promise of distant future. I will illustrate this viewpoint by recent developments in understanding the phase structure of thermal QCD and that of conformal window.

The seminar will take place extraordinary on Friday, February 24, 2023 at 10:00 a.m. in the NPI meeting room (conference room).