

Lattice QCD gauge configuration generation at near physical point

Tuesday, 2 November 2021 16:00 (30 minutes)

The solve of Dirac equation for light quarks in lattice QCD suffered from the critical mass slowing down problem, which can be solved by the recently developed multigrid method. In this talk, I will discuss the techniques and algorithms in lattice QCD gauge configuration generation, and combine the HMC and multigrid algorithm to speed up the gauge configuration generation at near physical point.

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