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Lattice QCD with the Supercomputer Fugaku - progress and prospects

Friday 28 October 2022 10:00 (30 minutes)

The Japanese flagship supercomputer Fugaku started its operation in early 2021. After one and half years of production runs it is producing some initial results in Lattice QCD applications, such as thermodynamics, heavy and light quark flavor physics, and hadron structures and interactions. In this talk, we first touch on the basis of Fugaku and its software status. Discussion is given on the ongoing projects highlighting some initial results, mainly focusing on those using domain wall fermions, a practical chiral fermion formulation on the lattice.

Experiment context, if any

References

Significance

Presenter: AOKI, Yasumichi (RIKEN)

Session Classification: Plenary