

Martins: HiRep on GPUs

Tuesday, 11 June 2024 10:00 (30 minutes)

We have ported one of the available software libraries for lattice gauge theory simulations, HiRep, to GPUs. The code supports simulations of higher representations of Wilson Fermions, which are strongly limited by computational expense depending on the gauge group and dimension of the Fermion representation. We present details on the implementation, algorithmic checks, and benchmarks performed on various NVIDIA and AMD GPUs.

Session Classification: Session 1