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Tuning HMC parameters with gradients

Tuesday, 1 August 2023 13:50 (20 minutes)

We will investigate the effectiveness of tuning HMC parameters using information from the gradients of the HMC acceptance probability with respect to the parameters. In particular, the optimization of the trajectory length and parameters for higher order integrators will be studied in the context of pure gauge and dynamical fermion actions.

Topical area

Algorithms and Artificial Intelligence

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Session Classification: Algorithms and Artificial Intelligence