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Running HMC Simulations with Python via QUDA

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Lyncs-API is a Python API for lattice QCD. One of the goals of lyncs-API is to provide a common framework for lattice QCD calculation for different HPC architectures with and without accelerators by utilizing different software packages. As such, it contains interfaces to c-lime, DDalphaAMG, tmLQCD, and QUDA. In this talk, we focus on the interface to QUDA, named lyncs-QUDA, and present a small tutorial on how to use the Python interface to perform a Hybrid Monte Carlo simulations using computational kernels provided by QUDA.

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