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Hadrons: A lattice simulation workflow management system

Friday 15 September 2023 11:00 (45 minutes)

In this talk we give an overview of the open source C++ package Hadrons, which is a Grid-based workflow management system for lattice field theory simulations. Hadrons utilises the dataflow programming paradigm to break potentially large calculations into a series of composable elementary modules (e.g. Dirac operator inversions, contractions, IO, etc.). This gives the user the flexibility to design a computation as a graph of such modules, that is then serialised into a schedule and optimised for resource usage.

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