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Strategy for the Future of Lattice QCD

This submission highlights the sustained importance and requirements, over the coming decades, of the Lattice Quantum Chromodynamics community. We provide predictions for an increasing set of Standard Model observables and parameters with nonperturbative-physics contributions, such as matrix elements for hadron-transitions, hadron structure, the QCD phase diagram, and even properties of non-Standard-Model scenarios. These facilitate the full exploitation of experimental data at both the intensity and energy frontiers. In this document we argue that for sustained progress the community requires continued access to computing as well as storage resources at large Tier-0/1 high-performance-computing centres, as well as research staff and research-software-engineers.

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