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Optimizing Staggered Multigrid for Exascale performance

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Adaptive multigrid methods have proven very successful in dealing with critical slow down for the Wilson-Dirac solver in lattice gauge theory. New formulations for Multigrid methods with staggered fermions are currently being tested on pre-exascale GPU supercomputers such as Summit and Crusher. In this talk, I will discuss our implementation of staggered multigrid codes on the Summit Supercomputer and subsequent optimization efforts.

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