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Dynamical QCD+QED simulation with staggered quarks

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Electromagnetic effects play an important role in many
phenomena such as isospin symmetry breaking in the
hadron spectrum, hadronic contributions to g-2, etc.
We have generalized the MILC QCD code to include the
electromagnetic field. In this work, we focus on
simulations including charged sea quarks using the RHMC algorithm.
We explain the algorithm, code performance, and results for
some observables.

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