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Benchmark Continuum Limit Results for Spectroscopy with Stabilized Wilson Fermions

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The OpenLat initiative presents its results of lattice QCD simulations using Stabilized Wilson Fermions (SWF) using 2+1 quark flavors. Focusing on the $SU(3)$ flavor symmetric point $m_\pi = m_K = 412$ MeV, four different lattice spacings ($a = 0.064, 0.077, 0.094, 0.12$ fm) are used to perform the continuum limit to study the cutoff effects.

We present the results of basic gauge observables and of hadron masses, and their statistical properties like the autocorrelation. For the determination of the hadron masses we used a Bayesian analysis framework with constraints and model averaging to obtain the most unbiased results as possible.

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