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Diagrammatic Monte Carlo simulations of staggered fermions at finite coupling

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The diagrammatic Monte Carlo method has been a very fruitful tool for taming, and in some cases even solving, the sign problem in several lattice models. We have recently proposed a diagrammatic model for simulating lattice gauge theories with staggered fermions at arbitrary coupling, which extends earlier successful efforts to simulate lattice QCD at finite baryon density in the strong-coupling regime. Here we present the first numerical simulations of our model, using a worm algorithm.

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