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Worldline approach to lattice QCD at finite coupling

Friday, 21 February 2014 16:00 (30 minutes)

We explore the possibility of describing lattice QCD in the worldline approach beyond strong coupling. We construct MDP models of lattice gauge theories with staggered fermions for arbitrary values of the lattice coupling, by integrating out all the link variables exactly. We discuss the implications of our constructions to the sign problem at finite coupling and density.

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