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Hamiltonian Simulations of non-abelian lattice gauge theories promise new insights into multiple areas of QCD. To run numerical simulations, the operators contained in the Kogut Susskind Hamiltonian need to be discretised. While this is a mostly solved problem at strong couplings, simulations in the weak coupling limit remain tricky. In this talk, we report on our ongoing efforts to find a discretization scheme suitable for simulations at weak couplings.

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