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Renormalization group studies of the 8-flavor SU(3) system

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Lattice models with 2 sets of staggered fermions, corresponding to 8 Dirac flavors at the perturbative fixed point, are free of all 't Hooft anomalies. They can support symmetric mass generation phase (SMG) where mass generation occurs without symmetry breaking.

The SU(3) gauge model has an SMG phase in the strong coupling that appears to be separated from the weak coupling phase by a continuous phase transition.

We investigate the renormalization group β function in our quest to describe the infrared nature of the weak coupling phase.

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