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PERTURBATIVE IMPROVEMENT OF SU(2) GAUGE THEORY WITH TWO WILSON FERMIONS IN ADJOINT REPRESENTATION

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Recently there has been lot of interest in quantum field theories whose renormalization group evolution is governed by an infrared stable fixed point. This is motivated by phenomenological applications in unparticles and walking technicolor. As a continuation of an initial lattice studies of the two-color gauge theory with two adjoint Dirac flavors, we have carried out perturbative $O(a)$ improvement with Wilson fermions. I will discuss the phenomenological motivations for this study and some technical issues.

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