

On two-flavor QCD(adj)

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I use the traditional and more recently discovered 1-form discrete 't Hooft anomaly matching conditions and propose a novel realization of the symmetries of SU(2) Yang-Mills theory with two massless adjoint Weyl fermions in the strongly-coupled regime. The theory has a spectrum identical to the one obtained by compactifying it on a small circle. This offers a new perspective on the lattice studies of this theory, which is among a class of models proposed to realize the electroweak symmetry breaking. I also discuss that there is a bigger class of theories that undergo no phase transition between the small-size and infinite-size circle.

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