36th Annual International Symposium on Lattice Field Theory

Contribution ID: 240

Type: not specified

On two-flavor QCD(adj)

Wednesday, July 25, 2018 3:20 PM (20 minutes)

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.

Primary author: Dr ANBER, Mohamed (Lewis & amp; Clark College)Presenter: Dr ANBER, Mohamed (Lewis & amp; Clark College)Session Classification: Physics beyond the Standard Model

Track Classification: Physics Beyond the Standard Model