

Chiral symmetry for a gauge theory with one adjoint fermion on the lattice

Thursday, 31 March 2022 11:15 (30 minutes)

In this talk, I will focus on how to implement chiral symmetry on the lattice through the overlap operator. We apply this approach to one flavour adjoint QCD to study whether an infra-red conformal behavior is observed or not. Our simulation shows that, quite deep in the infra-red regime, a natural length appears in terms of the chiral condensate, a strong numerical hint that the theory is not conformal, in contradiction to some previous results.

Presenter: SOLER, Ivan