

Spontaneous chiral symmetry breaking in holographic QCD

Thursday 9 December 2021 09:30 (35 minutes)

We describe the emergence of spontaneous chiral symmetry breaking in holographic QCD via a non-linear extension of the soft wall model with non-minimal couplings. We investigate the behaviour of meson masses and decay constants as a function of the quark mass. In the chiral limit we show the emergence of Nambu-Goldstone bosons in the pseudo-scalar sector and reproduce the Gell-Mann-Oakes-Renner (GOR) relation.

Reference: 2107.10983 (accepted in Phys. Rev. D).

Author: BALLON BAYONA, Alfonso

Presenter: BALLON BAYONA, Alfonso