



Contribution ID: 73

Type: **not specified**

Dynamic Holographic QCD

Tuesday 4 February 2014 16:30 (30 minutes)

I present a simple AdS/QCD model in which the formation of the chiral condensate is dynamically determined. The gauge dynamics is input through the running of the quark bilinear's anomalous dimension, γ . The condensate provides a dynamically generated infra-red wall in the computation of mesonic bound state masses and decay constants. As an example, I use the model, with perturbative computations of the running of γ , to study SU(3) gauge theory with a continuous number of quark flavours, N_f . We follow the behaviour of the spectrum as we approach the conformal window through a walking gauge theory regime. The phase diagram of the theory is also computable in this model.

Primary author: EVANS, Nick (U)

Presenter: EVANS, Nick (U)