

Nucleons and Deuteron electric dipole moment from Holographic QCD (and few words on Isospin breaking)

Monday, October 21, 2019 3:05 PM (35 minutes)

In the framework of the Witten-Sakai-Sugimoto holographic model of QCD, we describe our progresses in the derivation of a quantitative prediction for the θ -induced electric dipole moment of the nucleons and their deuteron bound state, discussing current limitations and future directions. Then, introducing explicit isospin breaking in the form of different quark masses, we also qualitatively show how the model accounts for mass splittings of isospin multiplets.

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