

Abstract

It is well-known that the Standard Model predictions for the hadronic and leptonic electric dipole moments (EDMs) are well far from the present experimental resolutions, thus, the EDMs represent very clean probes of New Physics effects. Especially, within supersymmetric frameworks with flavor-violating soft terms large and potentially visible effects to the EDMs are expected. In this talk, we will evaluate the predictions for the EDMs at the beyond-leading-order (BLO) which is presented in recent paper 0812.4283. We then show that BLO contributions to the EDMs dominate over the leading-order (LO) effects in large regions of the supersymmetric parameter space.