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Electric dipole moment of the quark top within an effective theory

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Abstract content

Summary

We use two dimension-six operators, $\\tilde{\\cal{O}}{WB}=(\\Phi^{\\dag} W{\\mu \\nu} \\Phi)\\tilde{B}^{\\mu \\nu}and\\tilde{\\cal{O}}W = -\\frac{4 i}{3!}Tr\\left[W^{\\mu}\\hspace{0.01cm}{\\nu} W^{\\nu}\\hspace{0.01cm}{\\lambda} \\tilde{W}^{\\lambda}\\hspace{0.01cm}{\\mu} \\right], whichcarryCPviolation,$ at the one loop level, where V is a photon or a Z boson, and assuming that V is off-shell. The contributions that are originated in these invariants give rise to two electric dipole form factors, one per each operator. The latter task is carried on by using the effective Lagrangian technique. We give special emphasis to the gauge dependence or independence of the effective contributions. Our preliminary results suggest that the form factors, which are the principal objects of this study, are, in fact, gauge independents.

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