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Weak dipole moments of the top quark and flavor violation

Beyond the electromagnetic properties of the top quark, there is also great interest in its static weak properties, which are associated with their interaction with the Z boson. In the present work, the analytical calculation of weak dipole moments for the top quark is presented in the context of models with generalized current sectors, where the existence of a new neutral massive gauge boson, known as Z' , is predicted. Specifically, the impact of flavor changing neutral currents, mediated by this boson, on the weak dipole moments are calculated. The numerical evaluations are also carried out, and then compared with both the theoretical prediction in the standard model and the actual experimental setup.

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