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Higgs boson production constraints on anomalous fermion couplings

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Physics beyond the standard model (SM) can be parameterized with an effective Lagrangian that respects the symmetries of the standard model and contains many operators of dimension six. We consider the subset of these operators that is responsible for flavor diagonal anomalous color magnetic (CMDM) and electric (CEDM) dipole couplings between quarks and gluons. Invariance of these operators under the SM implies that they contribute to Higgs boson production at the LHC and we study the corresponding constraints that can be placed on them. In a similar manner we study the constraints that can be placed on lepton anomalous magnetic moments, electric dipole moments and weak dipole moments at the LHC.

Summary

Primary author(s) : Prof. VALENCIA, German (Iowa State University)

Presenter(s) : Prof. VALENCIA, German (Iowa State University)

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