

# Full two-loop fermionic contributions for $(g-2)$ in the Two-Higgs-Doublet Model

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The anomalous magnetic moment of the muon is, by today, one of the most appealing signs for Physics Beyond the Standard Model. In this work, we study the Two-Higgs-Doublet Model and compute, up to two-loop order, the complete set of fermionic contributions for the anomaly. We are able to fully reproduce some recent results found in the literature and we show that, for a large region of the parameter space, the discrepancy between the experimental value and theoretical prediction for the anomaly can be significantly reduced.

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