

Leptophilic pseudoscalar and muon $g-2$ in 2HDM

Friday 21 May 2021 16:20 (20 minutes)

The type-X 2HDM is known to explain the long-standing muon $g-2$ anomaly due to the presence of a light CP-odd Higgs boson which becomes leptophilic at large $\tan\beta$. The model can be extended with an even lighter singlet boson contributing to the muon $g-2$. We discuss the current experimental limits on the model and the discovery potential of the extra (Higgs) bosons at lepton and proton colliders.

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Session Classification: Theory