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Flavour and precision probes of a class of scotogenic models

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We address the phenomenological impact of a well-motivated class of scotogenic models regarding flavour and electroweak precision observables. In particular, and for the case of a “T1-2-A” variant, we carry out a full computation of the next-to-leading order corrections to leptonic Higgs and Z -boson decays. In view of the evolution in the tension between theory and observation regarding the anomalous magnetic moment of the muon, we revisit previously drawn conclusions on operator dominance and constraints on the parameter space.

Finally, we consider the role of $H \rightarrow \mu\mu$ decays (and other flavour conserving Higgs decays), as well as precision observables in probing this class of models at future colliders.

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