

Phenomenology 2019 Symposium



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EFT Effects in the Singlet Extended Standard Model

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Standard model is successful in explaining Higgs physics, however new physics beyond the standard model may yet be expected. We study how the inclusion of real singlet scalar and dimension 5 operators effect SM Higgs physics. We do this by studying the deviations of the total width and branching ratios of the Higgs from the SM predictions. We also study the limit on scalar mixing angle and Wilson coefficients by a fit to the ATLAS/CMS Higgs signal strength.

Summary

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