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Exploring Constraints on ν SMEFT Coefficients in the Presence of an Extra $U(1)'$

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Constraints on low-energy coefficients of the ν SMEFT generalization of the Standard Model effective theory in the simple case of a $U(1)'$ enlargement of the Standard Model gauge group are studied.

In particular, the constraints imposed by the requirement that the extended theory remains free of gauge anomalies are analyzed. Several explicit realisations, showing the obtained correlations among the coefficients of $d = 6$ operators are presented.

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