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Classification of anomaly free 2HDMs with a flavoured Z'

Content :

We present a complete classification of anomaly free 2HDMs with a flavoured $U(1)$ gauge symmetry, resulting in a total of eleven distinct textures. Five of these are relatively well-studied, while the rest either partially, or completely, lack previous treatment. We study these textures under a variety of experimental bounds, comparing our results with previous studies whenever these exist.

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