



UNIVERSIDAD TECNICA
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A Reduction of the 2HDM Parameter Space

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Abstract

The idea of reduction of couplings consists in searching for renormalization group invariant relations among seemingly independent couplings of a renormalizable theory. Here we review the existence of such 1-loop relations among the top Yukawa, the Higgs quartic and the gauge colour couplings of the Type-II Two Higgs Doublet Model at a high-energy boundary. Fitting the reduced theory to the experimental constraints suggests the value of $\tan\beta$ and the scale in which physics beyond the second scalar doublet may appear.

Miércoles 16 de Octubre de 2024 a las 14:30 horas de Chile.

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