

Scalars 2017



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Radiative alignment in 2HDM

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Content :

The possibility that alignment arises in 2HDM as a consequence of the high-scale behaviour of the theory is discussed here. Requiring the 2HDM to be bounded from below and perturbative up to scales as low as a few TeV forces the lightest CP-even scalar to have SM-like properties for model Type II. Analogous conclusions are found for model I, if the charged higgs mass is larger than about 400 GeV. We therefore argue that alignment may arise "naturally" in the 2HDM, as a consequence from radiative corrections to the model.

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