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neutrinos, dark matter & dark energy physics

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CP Violation in the Minimal Linear σ Model

The Minimal Linear σ Model is a useful theoretical laboratory. One can investigate in a perturbative renormalisable model the properties of the Higgs boson as a pseudo-Goldstone boson, the phenomenological effects of the radial mode of the field s which spontaneously breaks the global $SO(5)$ symmetry and the validity of conclusions based on the Effective Field Thery (EFT) approach with the field s in the spectrum, after the decoupling of heavy degrees of freedom. In this paper all those issues are discussed in the framework of the Minimal Linear σ Model with CP violating phases leading to pseudoscalar components in the effective Standard Model Yukawa couplings. Also the character of the electroweak phase transition in the presence of the field s is investigated.

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