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Scalar sector of CP4 3HDM

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CP4 3HDM is a three-Higgs-doublet model based on the CP symmetry of order 4 (CP4) without any accidental symmetries. When exploring the scalar sector phenomenon of this model, the usual scan procedure is computationally time-consuming and inefficient. A much better scanning procedure, which we call the inversion, is to identify a set of crucial physical observables, to use them as input parameters, and to reconstruct the coefficients in the potential. In this work, we construct inversion in the scalar sector of CP4 3HDM.

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