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Bounds on Neutral and Charged Higgs from the LHC

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After the recent discovery of a boson with mass around 125 GeV with Standard Model-like properties, the possibility of an enlarged scalar sector arises as a natural question. The discovery of an extra scalar would be the ultimate proof of this scenario. Keeping the generic Yukawa structure of the Aligned Two-Higgs Doublet Model framework, we study the implications of the LHC data on the allowed scalar spectrum.

Summary

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