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Status of the two-Higgs-doublet model of type II

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After the Higgs boson discovery at the LHC one of the main questions is whether the Standard Model Higgs sector is really minimal. A very popular extension of the Standard Model is the two-Higgs-doublet model of type II (2HDM). In a global analysis of this model large parts of the parameter space can be excluded by taking into account LHC Higgs search results, electroweak precision observables and certain flavour observables. We present the latest status of 2HDM fits with a special emphasis on the future measurement of triple Higgs couplings, which could be used to distinguish between the Standard Model and the 2HDM.

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