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CP nature of the top-Higgs interaction at the LHC

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The discovery of the Higgs boson has now opened a window of opportunity to investigate the possibility of Beyond the Standard Model Physics through scrutiny of the nature of its interactions with other SM particles. In this talk we will focus on the CP nature of the Higgs and top interaction. More specifically, we investigate methods to explore the CP nature of the $t\bar{t}h$ coupling at the LHC, in a model independent way, focusing on associated production of the Higgs with a pair of top quarks.

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