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Higgs characterisation at NLO in QCD: CP properties of the top-quark Yukawa interaction

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At the LHC the CP properties of the top-quark Yukawa interaction can be probed through Higgs production in gluon fusion or in $t\bar{t}H/tH$. We consider the possibility for both CP-even and CP-odd couplings to the top quark to be present, and study CP-sensitive observables at next-to-leading order (NLO) in QCD, including parton-shower effects.

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