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Determination of the CP quantum numbers of neutral Higgs bosons in the tau decay channels at the LHC

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At the LHC we consider, within the MSSM, the production of neutral Higgs bosons via gg-fusion and bb-annihilation and the subsequent decay of these bosons into $\tau^+ \tau^-$ pairs. We analyze observables which allow to discriminate between scalar and pseudoscalar Higgs bosons and states of undefined CP parity. NLO QCD corrections are taken into account.

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