

## Interference effects in MSSM Higgs searches

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The interpretation of LHC searches for additional Higgs bosons has so far been restricted to cases without interference between close-by states. Phenomenological consequences of such interference terms will be presented. In the MSSM, the two heavier neutral Higgs bosons have similar masses in a wide part of the parameter space. Therefore, especially in the presence of CP-violating complex phases, interference effects can have a significant impact on the exclusion limits from searches for additional Higgs bosons.

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