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Searching for the Higgs bosons of the NMSSM

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The search for signs of more scalars is a primary task of current and future experiments.

In particular, in the next-to-minimal supersymmetric Standard Model, the extra Higgs bosons could well be the lightest new particles around. I will outline a possible overall strategy to look for the extra CP-even scalars, comparing the impact of measurements of the SM Higgs couplings with the direct searches of the new states, at current and future facilities.

In doing so, I will rely on an analytical understanding of the Higgs system, to keep under control the complications due to the proliferation of model parameters.

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