

HiggsBounds: Using results from the Higgs searches at LEP and the Tevatron to constrain extensions to the Standard Model

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The limits from Higgs searches at LEP and the Tevatron play an important role in constraining extensions to the Standard Model, and will need to be taken into account in the interpretation of any new physics observed at the LHC. HiggsBounds is a Fortran code which facilitates this task. It uses the expected and observed topological cross section limits from the charged and neutral Higgs searches at LEP and the Tevatron to determine whether a parameter point has already been excluded at 95% CL. We show the results in a variety of MSSM scenarios.

Primary author: Dr WILLIAMS, Karina (University of Bonn)

Presenter: Dr WILLIAMS, Karina (University of Bonn)

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