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Recasting LHC searches: the case of the Inert Doublet Model and other examples

Content :

ATLAS and CMS have been searching for new physics in many different channels. While the experimental analyses are often optimised for specific signatures of specific models, the number of observed events in the various signal regions can also be used to constrain other models, which were not considered by the the experimental collaborations. As a concrete example I will discuss how the dilepton + missing energy searches performed in the context of Higgs and SUSY analyses at Run 1 currently constrain the Inert Doublet Model. I will also elaborate on the difficulties met in using the experimental results and explain why more information is needed from the experimental collaborations in order to establish reliable tools for interpretation studies.

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