

Scalars 2023

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Automatizing validation of Higgs sectors - the case study of 95 GeV resonance

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Content :

FlexibleSUSY is a tool allowing to study phenomenology of user defined (both supersymmetric or not) BSM models. In a recent update we have extended it by adding the possibility to compute scalar decays. Building on that work, in this talk I will present an interface between FlexibleSUSY and HiggsTools - a library allowing to confront predictions for Higgs sectors with experimental data. As an application, I will discuss how a 95 GeV scalar resonance seen in LEP, CMS and ATLAS data can be accommodate withing the NMSSM and the Minimal R-symmetric Supersymmetric Standard Model.

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