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Constraints on new phenomena through Higgs coupling measurements with the ATLAS detector

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The discovery of the Higgs boson opens many perspectives to explore physics beyond the Standard Model. This talk describes constraints of new physics in a number of models using the combined measurements of the coupling strength of the 125 GeV Higgs particle using the entire ATLAS run-I data. The various models presented include an additional real electroweak singlet, two Higgs doublet models, a simplified Minimal Supersymmetric Standard Model, and a Higgs portal to dark matter.

Summary

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