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Test of Effective Field Theory in the Higgs Boson $H \rightarrow ZZ^* \rightarrow 4l$ decay channel with ATLAS detector at LHC

The enhancement of the statistics in the Run 2 up to 140 fb^{-1} has allowed more precise measurements of the Higgs boson cross section in the $H \rightarrow ZZ^* \rightarrow 4l$ decay channel, to probe possible Beyond Standard Model effects. In this talk the analysis strategy is presented together with some results, which has been used to put constraints on anomalous Higgs boson interactions with the Standard Model particles using the Pseudo Observable framework.

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