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Probing the Higgs self coupling via single Higgs production at the LHC

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The measurement of the Higgs trilinear coupling through Higgs pair production is particularly challenging. We explore the possibility of probing the trilinear coupling indirectly, through the production and decay of a single Higgs. The method relies on the effects that electroweak

loops featuring an anomalous trilinear coupling would imprint on single Higgs production at the LHC. We find that the bounds on the self coupling are already competitive with those from Higgs pair production and will be further improved in the current and next LHC runs.

Summary

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