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Triple Higgs production proton proton colliders

In this talk, we will discuss the feasibility of measuring the Higgs self-couplings through triple Higgs production at future proton–proton colliders. In particular, our study will focus on the $6b$ final state. Moreover, we will explore the possibility of detecting extra scalars at the LHC as a result of an enhanced triple Higgs production cross section, with a particular emphasis on the Two Real Singlet Model.

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