

## Top-Higgs Couplings Measurements at the LHC and Beyond

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Since the discovery of a Higgs boson at the LHC, the focus has shifted towards precise measurements of its properties in order to determine whether it is indeed the standard model (SM) Higgs boson, or whether it has a completely different (e.g. composite) nature. Of particular importance is the top-Higgs Yukawa coupling which, owing to the large top quark mass, is close to unity, making the top quark the most strongly-coupled SM particle to the electroweak symmetry breaking (EWSB) sector. Therefore, precise measurements of top-Higgs interactions will be of critical importance to start probing the underlying dynamics of EWSB, to unravel possible beyond-SM contributions to the loop-induced couplings of the Higgs boson to photons and gluons, as well as to enable a model-independent measurement of the Higgs self-coupling. In this talk we will review the strategies and challenges associated with measurement of top-Higgs couplings at the LHC, and present the most recent results on the search for associated ttH production by the ATLAS and CMS collaborations using the Run 1 dataset. We will also discuss about the prospects for these measurements at the LHC in Run 2, as well as at future colliders.