

Highlights on Higgs and top associated production at the LHC

Wednesday, 1 February 2017 14:30 (1 hour)

Higgs and top associated production is the last of the main Higgs production channels which has still to be measured at the LHC. It is a channel of particular relevance because it gives an unique access to a model-independent measurement of the top quark Yukawa. In my talk I will review recent progresses in the theoretical predictions for the signal and for the background processes, and comment upon phenomenological applications that a measurement of $t\bar{t}H$ will make possible. Besides the dominant production mode in association with a top pair, I will also discuss recent progresses for the production of a Higgs boson and a single top, showing its relevance for the determination of the sign of the Yukawa coupling.

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