

ttbar backgrounds in charged Higgs searches

Top quark pair production is the main background for searches in most charged Higgs boson channels. The characteristics of this background are shown, as well as the contribution of the different ttbar decay modes: they can be separated into “irreducible” ttbar modes with the same final state as the signal, and “reducible” modes which contributes e.g. if an electron is misreconstructed as a tau. I will then present techniques to suppress and estimate the ttbar background contribution to the charged Higgs boson searches.

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