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Top pair production in association with a W boson at the LHC

This presentation provides a phenomenological analysis of the production of $t\bar{t}W$ and $t\bar{t}Wj$ in the context of the Standard Model at the LHC with a center-of-mass energy of $\sqrt{s}$ = 13 TeV. The analysis is focused on investigating various aspects of the computation, such as the impact of employing different theoretical modeling approaches, cross section ratio $\sigma_{t\bar{t}W^+}/\sigma_{t\bar{t}W^-}$, and the charge asymmetries.

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