

Measurements of the associated production of top quark pairs with bosons or other top quarks

A comprehensive set of measurements of top quark pair production in association with EWK bosons (W, Z or γ) is presented at different centre-of-mass energies. The results are compared to the theory predictions and re-interpreted as searches for new physics inducing deviations from the standard model predictions using an effective field theory approach. The status of the search for double- $t\bar{t}$ pair production combining different final states is also reported.

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