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Associated productions with top ($t+X$, $t\bar{t}+X$ with $X=W,Z,\gamma$, heavy-flavours, $t\bar{t}$) at the LHC

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Latest measurements of top quark pair production in association with EWK bosons (W , Z or γ) and heavy flavoured jets (cc,bb) using data collected by the ATLAS detector in LHCpp collisions at 13 TeV are presented. Inclusive and differential measurements are included. In addition, the most recent results of the very rare four-top-quark production are reported. Where available with full Run-2 data, measurements in single or dilepton final states are combined with the multilepton channel.

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