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Modeling of top-pair production in association with SM bosons or Heavy Quark pairs

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Production of top quark pairs in association with heavy Standard Model bosons or with heavy flavor quark-pairs is important both as a signal and a background in several ATLAS analyses. Strong constraints on such processes cannot at present be obtained from data, and therefore their modelling by Monte Carlo simulation as well as the associated uncertainties are important. This poster documents the Monte Carlo samples currently being used in ATLAS for the $t\bar{t}H$ and $t\bar{t}V$ ($V=W,Z$ vector bosons) and $t\bar{t}$ +bottom and charm quark pairs processes for $\sqrt{s}=13$ TeV proton-proton collisions.

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