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Measurements of $t\bar{t}$ +jets and $t\bar{t}$ +bb production and $t\bar{t}t\bar{t}$ production in CMS

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(Does not include EFT interpretation and any FCNC) A comprehensive set of measurements of top quark pair and single top quark production in association with light and b-jets is presented. The status of the search for four top quark production, to which the LHC experiments are starting to be sensitive, and that has important BSM re-interpretations, is also reported.

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