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## Top-pair and $tW$ production at approximate $N^3LO$

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I present approximate  $N^3LO$  theoretical results for top-antitop pair production and for single-top production in association with a W boson. The higher-order corrections are from soft-gluon radiation which is dominant near partonic threshold. I present results for total cross sections as well as transverse-momentum and rapidity distributions of the top quark and compare with data at LHC energies.

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