

Top-antitop + jet production with off-shell effects at NLO QCD

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We present results for the NLO QCD corrections to the process $pp \rightarrow t\bar{t}j \rightarrow W^+W^-b\bar{b}j \rightarrow e^+\nu_e\mu^-\bar{\nu}_\mu b\bar{b}j + X$, including complete off-shell effects for top quarks and W bosons: double-, single- and non-resonant contributions at the order $(\alpha_s)^4$. We discuss results of total and differential cross sections of interest for the LHC Run I and II.

Summary

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