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NLO matching for $t\bar{t}b\bar{b}$ production with massive b -quarks

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Theoretical uncertainties in the simulation of $t\bar{t}b\bar{b}$ production represent one of the main obstacles that still hamper the observation of Higgs-boson production in association with top-quark pairs in the $H \rightarrow b\bar{b}$. We present a next-to-leading order (NLO) simulation of $t\bar{t}b\bar{b}$ production with massive b -quarks matched to the Pythia within the POWHEG method with the hope of reconciling tension between previous calculations based on the MC@NLO method.

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