Type: Higgs physics and searches

## NLO matching for ttbb production with massive b-quarks

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Theoretical uncertainties in the simulation of ttbb 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->bb. We present a next-to-leading order (NLO) simulation ttbb production with massive b-quarks matched to Pythia within the POWHEG method with the hope of reconciling tension between previous calculations based on the MC@NLO method.

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