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NLO QCD corrections to pp -> t anti-t b anti-b

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The production of t anti-t b anti-b final states represents one of the most important beackground processes for Higgs production in association with top-quark pairs at the LHC. A good background control is indispensible for an analysis of the ttH(->bb) signal, requiring next-to-leading order (NLO) predictions for both signal and background. The talk describes a recently completed NLO QCD calculation for pp->ttbb at the LHC, a calculation that is at the calculational frontier of NLO predictions for so-called multi-leg processes. Moreover, results from a phenomenologically driven analysis are discussed.

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