

Electroweak and QCD corrections with MadGraph5_aMC@NLO: top quark pair production in association with heavy bosons (15+5min)

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I will first review the status of the perturbative computations with QCD and electroweak corrections in the MadGraph5_aMC@NLO framework. Then, I will focus on its first phenomenological application to top quark pair associated production with a Higgs/Z/W boson at next-to-leading order QCD and electroweak accuracy. As a by product, I also present some preliminary results for the top quark pair production at the complete one-loop level, i.e. including $\alpha_s^n \alpha^m$ ($n + m = 3$) corrections.

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