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Probing top-Higgs interactions at NLO accuracy

Monday, 9 May 2016 15:45 (15 minutes)

I will present some recent progresses and ongoing efforts in developing the SM EFT to next-to-leading order (NLO) accuracy, with a focus on operators involving the top-quark and the Higgs boson fields. Apart from total rate, NLO results matched to the parton shower simulation are also available, allowing for event generation to be directly employed in experimental analyses. Loop-induced processes can be incorporated in the same framework. I will also discuss some results on single-top and $t\bar{t}Z$ /photon processes.

Summary

I will present some recent progresses and ongoing efforts in developing the SM EFT to next-to-leading order (NLO) accuracy, with a focus on operators involving the top-quark and the Higgs boson fields. Apart from total rate, NLO results matched to the parton shower simulation are also available, allowing for event generation to be directly employed in experimental analyses. Loop-induced processes can be incorporated in the same framework. I will also discuss some results on single-top and $t\bar{t}Z$ /photon processes.

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