Phenomenology 2016 Symposium



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Type: parallel talk

On the analytic two-loop corrections to the double Higgs production in the SM'

Monday 9 May 2016 14:45 (15 minutes)

In this talk I will present the computation of the analytical NLO virtual corrections to the $gg \rightarrow HH$ cross section. The reducible contributions, given by the double-triangle diagrams, are evaluated exactly while the two-loop irreducible diagrams are evaluated by an asymptotic expansion in heavy top quark mass. I will briefly describe the techniques involved and their range of validity, and compare our computation with the known numerical results.

Summary

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