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VBF and Vector Boson Scattering at 13 TeV, the EFT approach

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Summary

For the analysis of LHC run-II results some subleading production channels, in particular vector boson fusion (VBF), will be of great importance in the search of new physics in terms of small deviations with respect to the Standard Model couplings and masses.

Here we address the strategy for such an analysis. On the one hand in terms of exact calculation of NLO-EW corrections and its implementation in the Monte Carlo generators, and on the other hand in terms of a bottom-up Effective Field theory. This is a very challenging analysis due to the introduction of many new parameters in the theory and needs of new strategies for a successful comparison between experiment and theory.

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