

## Phenomenology 2020 Symposium



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# On the Validity of SMEFT Studies: VH and VV Production

*Tuesday 5 May 2020 16:30 (15 minutes)*

WH, ZH,  $W+W^-$ , and  $W^\pm Z$  pair production probes the significance of non-Standard Model interactions of quarks, gauge bosons, and the Higgs boson. These new effects can be quantified in terms of effective field theory (EFT) coefficients. We examine the importance of including next-to-leading order QCD corrections in fits to the EFT coefficients. We explore different approaches to enforcing the validity of the EFT and the resulting implications on the fits.

## Summary

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