Type: not specified

Discussion about SMEFT and HEFT exemplified for Higgs boson pair production

We briefly motivate the linear (SMEFT) and non-linear (HEFT) bottom-up EFT extensions of the Standard Model and demonstrate the difference in organizing the theory for the example of Higgs boson pair production at NLO QCD. Comparing m_{hh} distributions for HEFT and SMEFT for different truncation options of dimension 6 operator contributions, we point out to the pitfalls of a naive translation between the two EFTs.

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