

Loop effects on Higgs and vector boson production in HEFT

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The absence of newly discovered states at high energies makes the use of Effective Field Theories (EFTs) the adequate tool to describe the electroweak sector. Within the available EFTs, the Higgs Effective Field Theory (HEFT) provides the most general parametrization of electroweak physics. In this context, effects of new physics can substantially modify the lowest-order couplings of HEFT and produce large effects on observables that can be directly tied to ultraviolet models. We will consider the effect of one-loop contributions to the production of vector bosons and the Higgs in HEFT and study the impact of possible new physics on these processes.

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