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The $e^+ e^- \rightarrow Z H$ process in the Standard Model Effective Field Theory beyond Leading Order

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We systematically study potential effects of BSM physics in the $e^+ e^- \rightarrow Z H$ process. To this end we include dimension-6 Standard Model Effective Field Theory operators and work to NLO accuracy in the electro-weak coupling. To capture the full breadth of potential signatures we include virtual and radiative corrections fully-differential, as well as consider polarized and unpolarized electron and positron beams. In this first study we take a closer look on the Higgs trilinear coupling and CP violating operators.

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