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The JHU generator framework: EFT applications in Higgs physics

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The JHUGenerator framework includes an event generator of all anomalous Higgs boson interactions in both production and decay and the MELA library for matrix element analyses. The framework also allows using dimension-six operators of an EFT in on-shell and off-shell production together with triple and quartic gauge boson interactions. One new feature is the JHUGenLexicon interface for relating the anomalous coupling formulation with popular EFT bases. Some of the new features are illustrated along with projections for experimental measurements with the full LHC and HL-LHC datasets.

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