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Diboson production in the SMEFT from gluon fusion

Tuesday 20 June 2023 11:30 (17 minutes)

We study the loop-level gluon-fusion diboson production in the SMEFT framework. We compute analytically the helicity amplitudes for all dimension-6 operators and identify those that generate growth with energy and hence can be better constrained. Additionally, we perform a phenomenological analysis of gluon-fusion Zh production at HL-LHC, combining it for the first time with quark-initiated Zh production. Corresponding paper to appear.

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