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NLO Higgs boson pair production in the ElectroWeak Chiral Lagrangian framework

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We will discuss Higgs Boson pair production at full NLO including deviations from the Standard Model arising in an Effective Field Theory framework, the Electro-weak chiral Lagrangian (EWChL). We will briefly review the calculation and then show results for some benchmark points in the BSM parameter space. Subsequently we will discuss how to write the cross section as a function of the 5 anomalous couplings arising in the Higgs sector. We will show iso-countours and 3-D plots based on this parametrization, which illustrate the behaviour of the total and differential cross sections in terms of the anomalous couplings.

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