

Recent progress on Bosonic HEFT: renormalization, matching and colliders

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Some selected aspects of Bosonic HEFT with implications for multiple Higgs production at colliders will be presented. These include: 1) Recent progress on renormalization of 1PI functions and practical applications for specific processes at colliders, 2) The approach of matching UV theories to HEFT by identifying their predictions for amplitudes: the 2HDM case and its non-decoupling effects, 3) The search for sensitivities to Bosonic HEFT coefficients at colliders and the relevance of specific observables to explore potential correlations among those coefficients: the (κ_V , κ_{2V}) case.

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