Contribution ID : **197** Type : **not specified**

Limits on Higgs Boson Couplings in Effective Field Theory

Tuesday, 6 October 2015 14:30 (30)

We review the Effective Field Theory (EFT) to make projections on physics beyond the Standard Model in the Higgs sector. We provide relations between the non-Standard Model couplings of the Strongly-Ineracting Light Higgs (SILH) effective Lagrangian implemented in the eHDecay package and the corresponding terms of the spin-0 Higgs Characterisation model's effective Lagrangian used with the aMC@NLO Monte Carlo generator. Constraints on BSM couplings are determined on the basis of existing experimental limits on Higgs boson width and branching ratios.

Presentation type

Poster

Primary author(s) : Mr. BELYAEV, Nikita (NRNU MEPhI); Mr. REID, Thomas (Manhattan College)

Presenter(s) : Mr. BELYAEV, Nikita (NRNU MEPhI)

Session Classification : Poster Session I

Track Classification : Nuclear physics and particle physics