Contribution ID: **1323** Type: **Parallel session talk**

Discerning effective theories through multi-Higgs production

Saturday 20 July 2024 09:38 (20 minutes)

In this talk we study the phenomenological implications of multiple Higgs boson production from longitudinal vector boson scattering in the context of effective field theories. We find compact representations for effective tree-level amplitudes with up to four final state Higgs bosons. Total cross sections are then computed for scenarios relevant at the LHC in which we find the general Higgs Effective Theory (HEFT) prediction avoids the heavy suppression observed in the Standard Model Effective Field Theory (SMEFT).

Alternate track

1. Beyond the Standard Model

I read the instructions above

Yes

Primary author: SANZ-CILLERO, Juan José (Universidad Complutense de Madrid & IPARCOS)

Presenter: SANZ-CILLERO, Juan José (Universidad Complutense de Madrid & IPARCOS)

Session Classification: Higgs Physics

Track Classification: 01. Higgs Physics