

# Trilinear Higgs Couplings in the THDMS and NTHDM at $e^+e^-$ colliders

*Friday 19 July 2024 20:40 (20 minutes)*

Trilinear Higgs Couplings are crucial quantities for determining precisely the electroweak breaking mechanism. In the talk both Type 2 and Type 4 THDMS are analyzed and compared with respect to embedding the different current excesses at the LHC. In the talk also vacuum stability is discussed in the THDMS compared with the NTHDM. Precision requirements for measuring the trilinear couplings at LHC as well as at lepton colliders w/wo polarized beams are included.

## Alternate track

### I read the instructions above

Yes

**Primary authors:** LI, Cheng; SCHIEBER, Daniel (University of Hamburg); HEINTZ, Dominik (University of Hamburg); HEINEMEYER, Sven (CSIC (Madrid, ES)); MOORTGAT-PICK, gudrid

**Presenter:** SCHIEBER, Daniel (University of Hamburg)

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**Track Classification:** 01. Higgs Physics