



Contribution ID: 73

Type: ORAL

The top quark EW couplings in the SMEFT

Wednesday 9 October 2024 14:35 (20 minutes)

In this contribution by the IFIT/C group we present a global SMEFT analysis of the top sector. We include measurements by ATLAS and CMS using the LHC run 2 data, as well as projections for the HL-LHC and the future electron-positron collider projects. We update the fits for the Snowmass study (arXiv:2206.08326) with new LHC results, new projections for t \bar{t} four-fermion operators and a new scenario for the muon collider.

This study is part of the focus topic “t \bar{t} threshold” of the ECFA Higgs/top7ew factory studies.

Primary authors: CORNET, Fernando (Case Western Reserve); VOS, Marcel (IFIC - centro mixto U. Valencia/CSIC, Valencia, Spain); MIRALLES, Marcos (Glasgow U.); MORENO LLACER, Maria (IFIC (UV/CSIC) Valencia); MIRALLES, Victor (Manchester U.)

Presenter: VOS, Marcel (IFIC - centro mixto U. Valencia/CSIC, Valencia, Spain)

Session Classification: Parallel - WG1-GLOB

Track Classification: WG1: WG1-GLOB - Physics Potential: Global interpretations