



Contribution ID: 350

Type: Oral presentation using Zoom

## SMEFT global fits of Higgs, EW and di-boson data & Snowmass 2022 efforts

*Friday, 29 October 2021 14:25 (35 minutes)*

With the completion of the Standard Model, there is no guarantee that new particles can be found at current or future colliders. Meanwhile, precision measurements of the Higgs and electroweak bosons at future lepton colliders offer a great opportunity for probing new physics beyond the Standard Model. The Standard Model Effective Field Theory (SMEFT) provides an ideal framework for a model-independent interpretation of these measurements. In this talk, I will try to provide an overview on the global SMEFT analyses at future lepton colliders, and highlight some of my own work. I will discuss some interesting aspects of the analyses, such as the indirect determination of the triple Higgs coupling via its loop contribution.

### 1st preferred time slot for your oral presentation

13:00-15:00 JST (6:00-8:00 CEST, 0:00-2:00 EDT, 21:00-23:00 PDT)

### 2nd preferred time slot for your oral presentation

15:30-17:30 JST (8:30-10:30 CEST, 2:30-4:30 EDT, 23:30-1:30 PDT)

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**Session Classification:** J: Global interpretations

**Track Classification:** Parallel sessions: Topical Groups: Session J: Global interpretations