



Contribution ID: 34

Type: **Parallel talk**

SMEFT at future lepton colliders

Wednesday, 5 July 2023 14:00 (25 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, highlight some of my own work, and briefly discuss how these analyses could benefit from machine learning techniques.

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Session Classification: Parallel talks 3: Electroweak Interactions