

# Electroweak precision beyond leading logarithms in the SMEFT

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Future electron–positron colliders will probe heavy new physics through precise electroweak measurements. I will present next-to-leading-logarithmic (NLL) predictions for electroweak precision observables in the Standard Model Effective Field Theory, combining one-loop electroweak matching with two-loop renormalization-group evolution. I will focus on interactions involving top quarks, whose effects on electroweak observables in some cases first appear at two loops. I will show how NLL contributions change the resulting constraints and introduce sensitivity to operators absent at leading-logarithmic order. Comparing current bounds with FCC-ee projections, I will also discuss the complementarity between electroweak precision measurements and top-quark production at the LHC.

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**Clasificación de la sesión :** Theory and analysis