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Constraining the top quark EFT using the top quark pair production in association with a jet at future lepton colliders

Wednesday 17 March 2021 22:00 (20 minutes)

In this talk, we present the results for constraining the effective field theory describing the top quark couplings through the $e^-e^+ \to t\bar{t}$+jet process.
The analysis is performed at two center-of-mass energies of
500 and 3000 GeV considering a realistic simulation of the detector response and the main sources of background.
The expected upper limits at 95\% CL are obtained on the new physics couplings
using the dileptonic $t\bar{t}$ final state.
We find that the 95\% CL bounds on dimensionless Wilson coefficients considered in this analysis could be probed down to 10^{-4}.

Time Zone

Europe/Africa/Middle East

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