

Anomalous Triple Gauge Couplings in Electroweak Dilepton Tails at the LHC and Interference Resurrection

Wednesday 17 May 2023 17:30 (25 minutes)

We will discuss about the electroweak dilepton production with two forward jets at the LHC, aiming to measure the anomalous triple gauge couplings in the Effective Field Theory (EFT) approach. This process provides a new example where the interference between Standard Model (SM) and beyond the SM is resurrected in the inclusive cross section of the full amplitude, including two forward jets. As a concrete illustration, we will show the detailed analytic and numerical study of the interference using a simpler toy process. Finally, we will talk about the sensitivity to anomalous triple gauge couplings at the LHC and the high luminosity LHC.

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