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New physics contributions to Wtb anomalous couplings and top-quark decay.

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In this work, we study the new physics effects arising due to the presence of anomalous Wtb vertex through the semileptonic decay modes of the top-quark at the Large Hadron Collider. An estimate of the sensitivities of the aforementioned interaction at 5 sigma CL in the context of top-quark decay-width measurements and cross-section measurements would also be discussed for the pre-existing 13 TeV LHC data and its projections for the proposed LHC runs at 14 TeV, 27 TeV and 100 TeV. We also incorporate the CP-violating effects to such interactions by constructing the CP-violating asymmetries.

In-person participation

No

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