



Contribution ID: 843

Type: Poster

CP-violating Wtb anomalous couplings and top-quark decay process.

We consider the top-pair production through pp annihilation, followed by the semileptonic decay of the top-quark. We study the new physics contributions to the Wtb vertex at the Large Hadron Collider. In particular, we estimate the limits on anomalous couplings for the pre-existing data of 13 TeV LHC energy with integrated luminosities of 36.1 fb^{-1} and 140 fb^{-1} . Prediction of limits on anomalous couplings for future hadron colliders, namely, HL-LHC, HE-LHC and FCC-hh is also discussed at the proposed luminosities. In addition, we construct CP-violating asymmetries to study the CP-violating effects arising due to Wtb vertex and give estimates on the sensitivity to CP-violating anomalous couplings.

First author

Email

Collaboration / Activity

Primary author: Ms TIWARI, Apurba (Aligarh Muslim University)

Co-author: Dr GUPTA, Sudhir (Aligarh Muslim University)

Presenter: Ms TIWARI, Apurba (Aligarh Muslim University)

Session Classification: T07: Top and Electroweak Physics

Track Classification: Top and Electroweak Physics