Contribution ID: 25

Type: not specified

Effective operators in Ø-channel single top production and decay

Thursday 17 January 2019 10:00 (30 minutes)

I discuss the production of a single top quark in the t-channel and its subsequent decay is studied at NLO accuracy in QCD, augmented with the relevant dimension-6 effective operators from the Standard Model Effective Theory. I show results for various kinematic and angular distributions for the LHC at 13 TeV, in order to assess the sensitivity to these operators, both with and without the top quark narrow width approximation. I show also the amount of sensitivity to a possible extra source of CP violation due to the weak dipole operator.

Presenter: LAENEN, Eric (Nikhef National institute for subatomic physics (NL))