

Results and prospects on an EFT interpretation of the tWZ process

Saturday 20 July 2024 17:03 (15 minutes)

The production of a single top quark t in association with a W and a Z boson receives large contributions from beyond-the-standard-model (BSM) theories, particularly through the electroweak interaction of the top quark. This talk presents a study on the sensitivity of the tWZ process to such effects in the form of effective field theory (EFT) operators. The study is based on the recently published results by the CMS experiment, which provided the first evidence for this process.

Additionally, new possible analysis strategies aimed at maximizing the sensitivity to EFT operators will be highlighted in order to exploit the full potential of the LHC.

Alternate track

I read the instructions above

Yes

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