

Contribution submission to the conference SMuK 2023

Search for single top production in association with a WZ pair at CMS and its interpretation in the SMEFT — ●ALBERTO BELVEDERE, ROMAN KOGLER, and KATERINA LIPKA — DESY, Hamburg, Germany

The preliminary results of the search for single top production in association with a WZ pair are presented in this contribution. The search is performed by using Run2 and Run3 data collected by CMS experiment at LHC at $\sqrt{s} = 13$ TeV and $\sqrt{s} = 13.6$ TeV respectively.

The tWZ process is particularly interesting in the context of the Standard Model Effective Field Theory (SMEFT) as it is sensitive to unitarity violation when modified Electroweak (EW) interactions are considered. A study of the sensitivity to different 6-dimensional operators is shown for the main kinematic variables of the tWZ process.

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