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Probing Dim-6 and Dim-8 EFT Operators via ZZ VBS: A Sensitivity Study

The vector boson scattering is very important to understand the electroweak sector in particle physics which allows us to test the prediction of the standard model(SM) to a high precision as well as investigate beyond-the-standard model(BSM)\\\
My poster will include a search for a VBS production of two jets in association with two Z bosons at $\sqrt{s} = 13$. The decay channel with two leptons (electrons or muons) and two neutrinos is considered. The search uses proton-proton collisions acquired from CMS experiments at LHC in 2016, 2017, and 2018. Corresponding to an integrated luminosity of 137.1 fb^{-1}, we also sought anomalous quartic gauge couplings (aQGC) with ZZ final state in this analysis.

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