

Contribution ID: 419

Type: Poster

Recent VBS scattering measurement with two vector bosons in the final state

The full Run II CMS dataset (137.1 fb^{-1}) of proton-proton collisions at a center-of-mass energy of 13 TeV is analyzed, to search for the electroweak VBS production of an opposite sing pair of W bosons plus two jets in the fully leptonic channel. Events are selected requiring two leptons (electrons or muons) and two jets with large pseudorapidity separation and high invariant mass; they are divided into three categories according to the flavor of the final state leptons. Machine learning techniques are employed to deal with the irreducible background from the QCD induced production of W bosons and the overwhelming background from the production of top quarks pair.

Collaboration / Activity

CMS

First author

Email

Primary author: CETORELLI, Flavia (Università & INFN Milano-Bicocca)
Presenter: CETORELLI, Flavia (Università & INFN Milano-Bicocca)
Session Classification: T07: Top and Electroweak Physics

Track Classification: Top and Electroweak Physics