LHCP 2013 - First Large Hadron Collider Physics Conference



Contribution ID: 218 Type: Experiment

The ZZ/WZ signal in ZH/WH (ll,vv)/lvb b search at CMS experiment.

The WZ/ZZ (VZ) associated production channel with Z decaying to bottom quarks, is one of the less reducible background for the standard model Higgs boson search in the same event topology (VH).

The study of the VZ signal proposed here should be accounted as a validation of the analysis strategy developed for the VH search in the boosted regime. It is also the first attempt to measure the VZ cross section in the Z->b b final state at CMS, which represents an important background for the analogue Higgs search.

The 8 TeV data sample comprising 19.5 fb-1 from the 2012 running period has been analyzed in the Z($\mu\mu$,ee, $\nu\nu$)Z and W($e\nu$, $\mu\nu$)Z channels.

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Track Classification: Poster