

RunII VBS Wgamma analysis

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We search for the EWK WGamma+2Jets process predicted in RunII. In our analysis, W produced with a photon and two Jets, W boson decays to a muon/electron and neutrino and neutrino turns into missing energy. We use MadGraph to model several backgrounds such as QCD WGamma+Jets, TTbar and so on, for fake lepton estimation and fake photon estimation, we use data-driven model.

Summary

In runI we have measured the Xsec precisely and got a significance about 3 sigma, now we have finished almost the work of runII and are working on the significance optimization, we are going to get a discovery of over 5 sigma.

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