



Contribution ID: 67

Type: **not specified**

## Search for Chargino and Neutralino using Two Jets in Vector-Boson-Fusion Topology at CMS

*Tuesday, August 4, 2015 4:30 PM (15 minutes)*

Vector Boson Fusion (VBF) tagging is an interesting and promising new avenue to probe difficult models such as the compressed electroweak and colored spectra scenarios in supersymmetry (SUSY). A search of SUSY using the VBF topology is presented using 19.7 fb<sup>-1</sup> of data from pp collisions at 8 TeV collected by the CMS detector. Focus is placed on SUSY models that have significant branching fractions to leptons, resulting in final states with at least two reconstructed leptons with like-sign or opposite-sign electric charge. The number of observed events are consistent with the standard model expectations. Limits on the chargino and neutralino masses at 95 % confidence level are set.

### Oral or Poster Presentation

Oral

**Primary author:** FLOREZ BUSTOS, Carlos Andres (Universidad de los Andes (CO))**Presenter:** FLOREZ BUSTOS, Carlos Andres (Universidad de los Andes (CO))**Session Classification:** BSM Physics**Track Classification:** BSM Collider