



Contribution ID: 315

Type: **not specified**

## Run-1 Single-top measurements at CMS

*Tuesday, August 4, 2015 4:00 PM (30 minutes)*

The Run-1 of the LHC was very successful for single top physics in CMS. The main single top production mode, t-channel, is well established. The t-channel cross-section was measured with unprecedented precision and t-channel events have been used for the first time to perform measurement of SM properties, such as:  $|V_{tb}|$ , top quark polarization, or W-helicity fractions. The associated production with a W boson, tW, has a large cross section at the LHC and has been observed by CMS for the first time. Finally, the s-channel also has been studied and limits set

### Oral or Poster Presentation

Oral

**Primary author:** GONZALEZ SUAREZ, Rebeca (University of Nebraska (US))**Presenter:** GONZALEZ SUAREZ, Rebeca (University of Nebraska (US))**Session Classification:** Top Physics**Track Classification:** Top Physics