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## Run-1 Single-top measurements at CMS

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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

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