



Contribution ID: 562

Type: not specified

## Precision determination of the $Wtb$ coupling in single top production

*Monday, 7 May 2018 15:15 (15 minutes)*

We present progress on our calculation of next-to-leading order QCD effects in single top production for a precision determination of the  $Wtb$  coupling. The calculation is performed analytically including an off-shell top quark and includes relevant operators from the Standard Model Effective Field Theory (SMEFT) that modify the  $Wtb$  coupling. We discuss the phenomenological importance and put our calculation into the context of current studies.

### Summary

**Primary author:** NEUMANN, Tobias (Fermi National Accelerator Laboratory)

**Co-author:** SULLIVAN, Zack (Illinois Institute of Technology)

**Presenter:** NEUMANN, Tobias (Fermi National Accelerator Laboratory)

**Session Classification:** Top