Weekly report
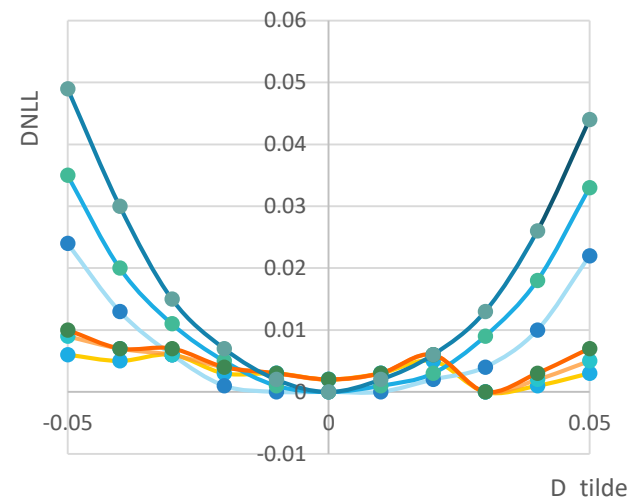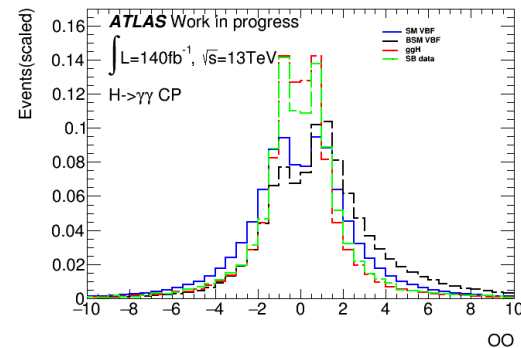
FANGYI GUO

Working status

VBF Higgs CP:

○ Cross check: Use different central and tail range to calculate NLL.

○ [-3, 3], [-6, 6], [-9, 9]

○ Tail part always has better performance.

○ Had a trick in previous simultaneous fit: NLL(simu)=$\Sigma NLL(cat_i)$, so simultaneous result is always better than any category.

Line 1: $OO \in [-3, 3]$ Line 2: $OO \in [-6, 6]$ Line 3: $OO \in [-9, 9]$
Line 4: $OO \notin [-3, 3]$ Line 5: $OO \notin [-6, 6]$ Line 6: $OO \notin [-9, 9]$
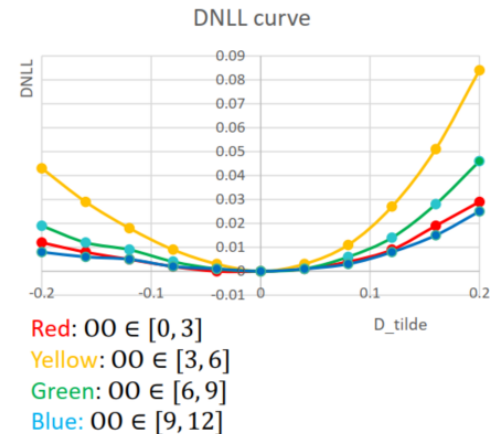
Working status

INT note: not finished yet
- Finished part: text of abstract, introduction, theory model, ATLAS detector.
- Doing: Data and MC, analysis strategy, some plots and tables.
- Maybe need 3~4 days more.

Might have some problem in previous plot
- I floated the total Nsig in fit.

Red: $OO \in [0, 3]$
Yellow: $OO \in [3, 6]$
Green: $OO \in [6, 9]$
Blue: $OO \in [9, 12]$

ADCoS shift: have been promoted to senior shifter.