

# Weekly meeting

Yaquan Fang, Xiaohu Sun, Qi Li

IHEP

1/26/2015

# Upper limit-wwyy

Mass point 260Gev -10000 toy

- expected limit (+2 sig)  
19.4401
- expected limit (+1 sig)  
13.8252
- expected limit (median)  
9.86774
- expected limit (-1 sig)  
7.87793
- expected limit (-2 sig)  
6.57464

Mass point 300Gev -10000 toy

- expected limit (+2 sig)  
16.1838
- expected limit (+1 sig)  
11.0312
- expected limit (median)  
8.20226
- expected limit (-1 sig)  
6.56688
- expected limit (-2 sig)  
5.71623

# Upper limit-wwyy

Mass point 350Gev -10000 toy

- expected limit (+2 sig)  
13.8713
- expected limit (+1 sig)  
9.75173
- expected limit (median)  
6.94674
- expected limit (-1 sig)  
5.32743
- expected limit (-2 sig)  
5.15748

Mass point 400Gev -10000 toy

- expected limit (+2 sig)  
11.7044
- expected limit (+1 sig)  
8.29174
- expected limit (median)  
6.11962
- expected limit (-1 sig)  
4.4177
- expected limit (-2 sig)  
3.94428

# Upper limit-wwyy

Mass point 500Gev -10000 toy

- expected limit (+2 sig)  
10.9789
- expected limit (+1 sig)  
7.62815
- expected limit (median)  
5.26861
- expected limit (-1 sig)  
3.92848
- expected limit (-2 sig)  
3.72424

Mass point 800Gev -10000 toy

- expected limit (+2 sig)  
11.4299
- expected limit (+1 sig)  
8.30603
- expected limit (median)  
6.00355
- expected limit (-1 sig)  
4.36058
- expected limit (-2 sig)  
4.00525

# Upper limit-wwyy

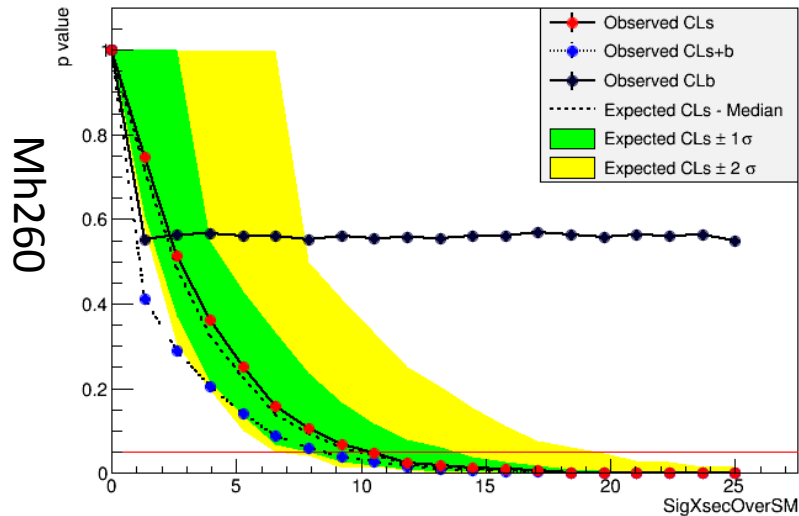
Mass point 1000Gev -10000 toy

- expected limit (+2 sig)  
19.408
- expected limit (+1 sig)  
12.5404
- expected limit (median)  
8.0784
- expected limit (-1 sig)  
6.34286
- expected limit (-2 sig)  
5.37193

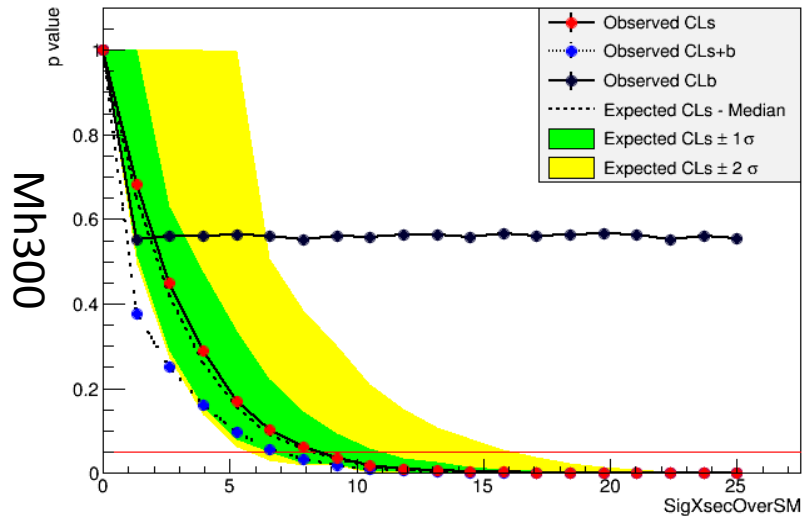
smhh-10000 toy

- expected limit (+2 sig)  
13.2446
- expected limit (+1 sig)  
9.41412
- expected limit (median)  
6.65397
- expected limit (-1 sig)  
5.32688
- expected limit (-2 sig)  
4.99596

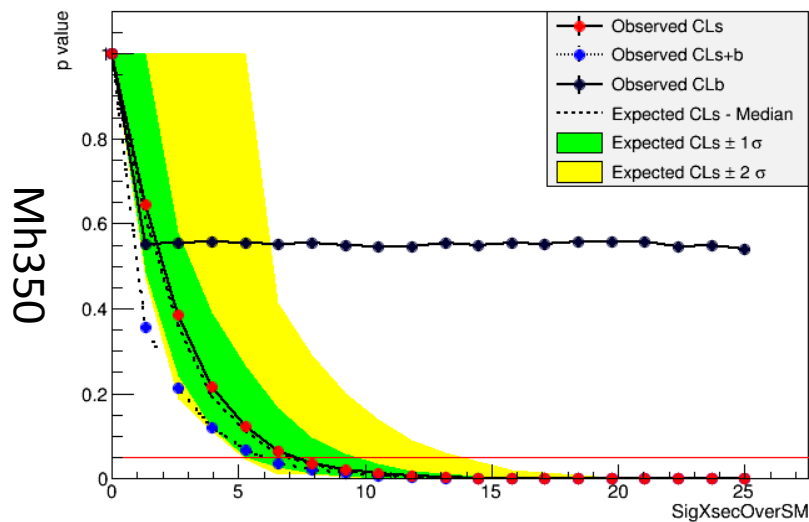
Frequentist CL Scan for workspace result\_SigXsecOverSM



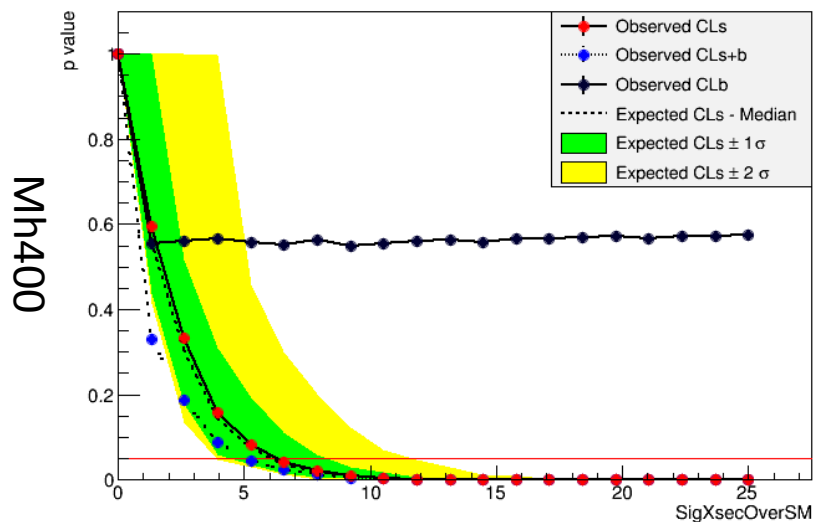
Frequentist CL Scan for workspace result\_SigXsecOverSM

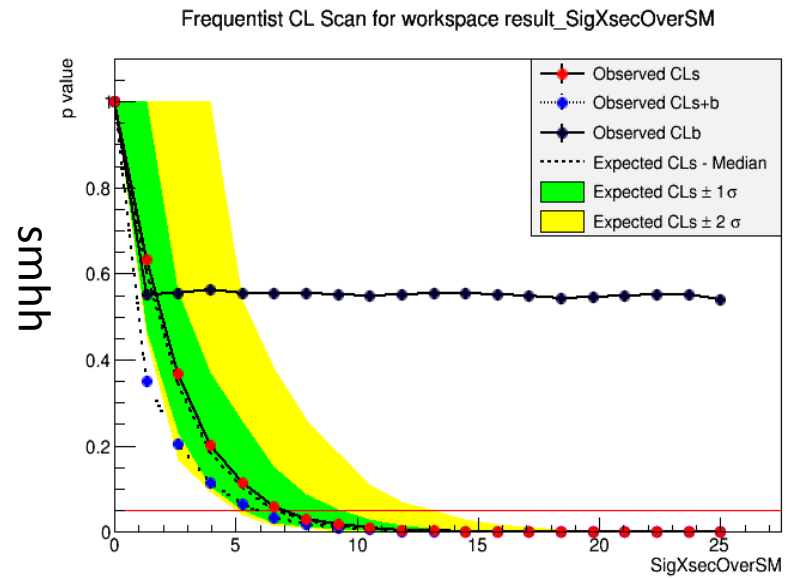
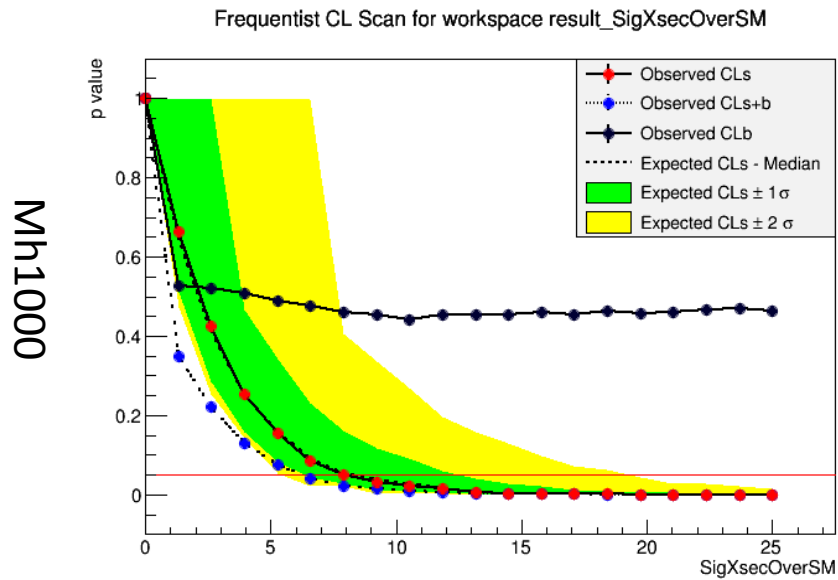
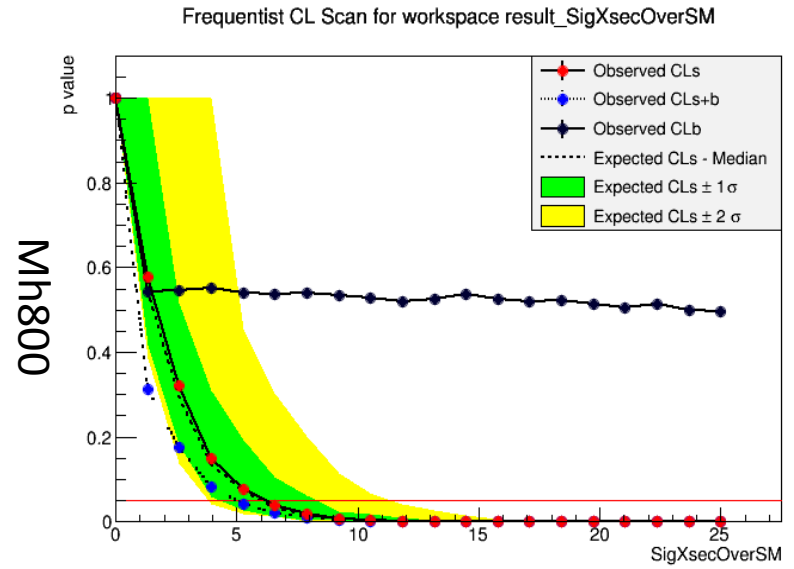
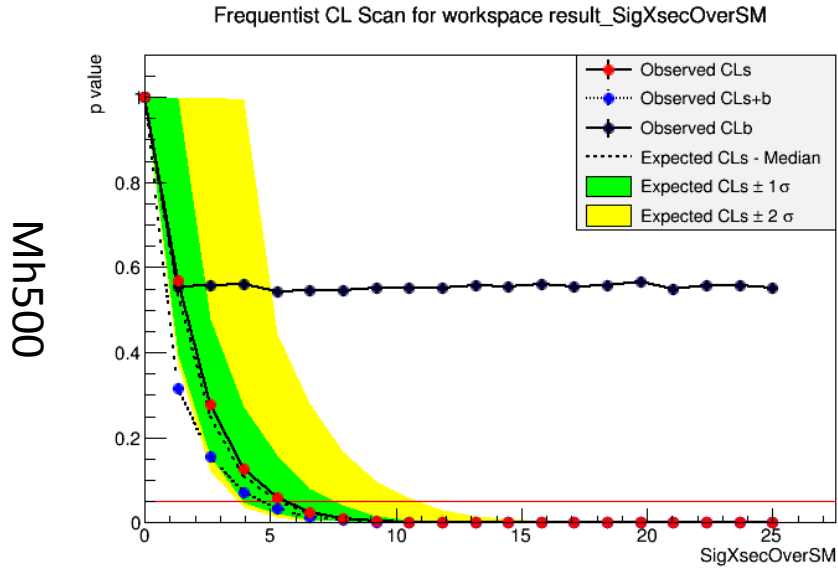


Frequentist CL Scan for workspace result\_SigXsecOverSM



Frequentist CL Scan for workspace result\_SigXsecOverSM





# Qualification task- develop a tool to smear the ID of track

- A problem that the tool can't smear all the events has been solved.
- In the root, it can't retrieve a variable(`InnermostLayer...`) from XAOD, while it is ok in the Athena. To solve it, we are waiting the new version of `AthAnalysisBase`(now is 2.2.1).