

$$***hh \rightarrow WW\gamma\gamma***$$

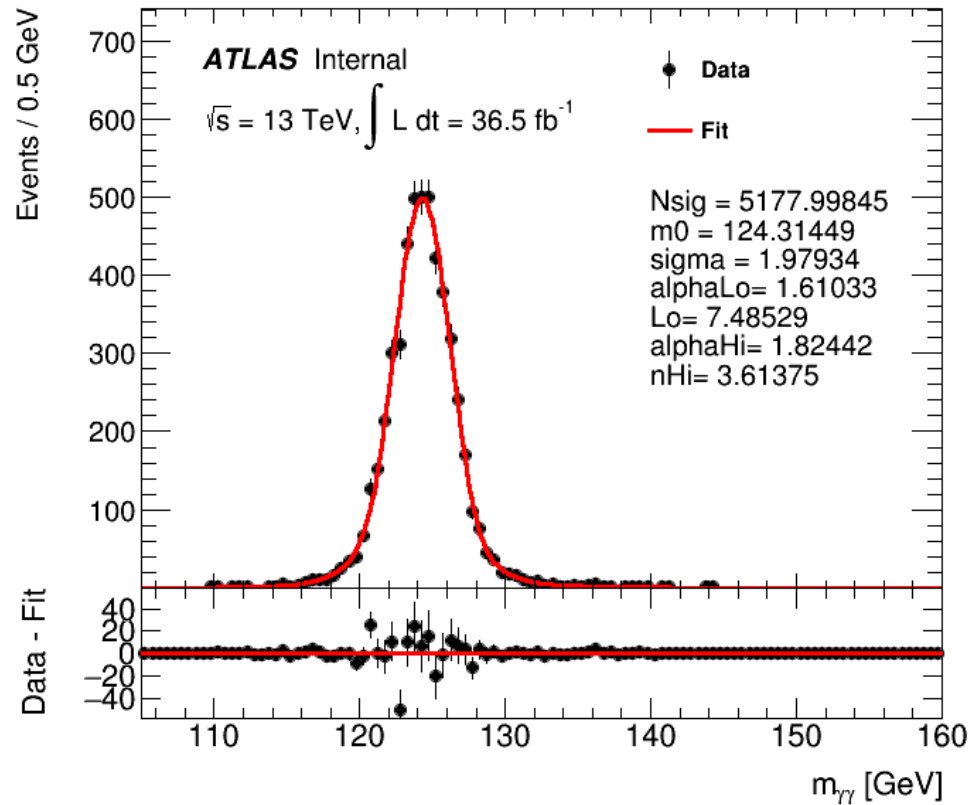
Qi Li

Monday, January 16, 2017

Sys

- All Systematics
- Didn't added into
 - trigger, Lumi, $h \rightarrow \gamma\gamma$, $h \rightarrow WW$ (All), PDF, alpha, SCALE, Stat(SM BKG, SM hh BKG), WHGenerator (wh), EFT (SM hh BKG), SpuS (signal)
- All the others sys are added

Fits to Signal



Expected limits

- mh260
- Shape fitting
- +2sigma: 30.3136
- +1sigma: 21.0225
- -1sigma: 10.4477
- -2sigma: 7.78227
- Median: 14.4995
- Observed: 14.5073

- mh260
- Number counting
- +2sigma: 27.9317
- +1sigma: 19.4905
- -1sigma: 9.74654
- -2sigma: 7.25999
- Median: 13.5264
- Observed: 13.5237

End