Weekly Report

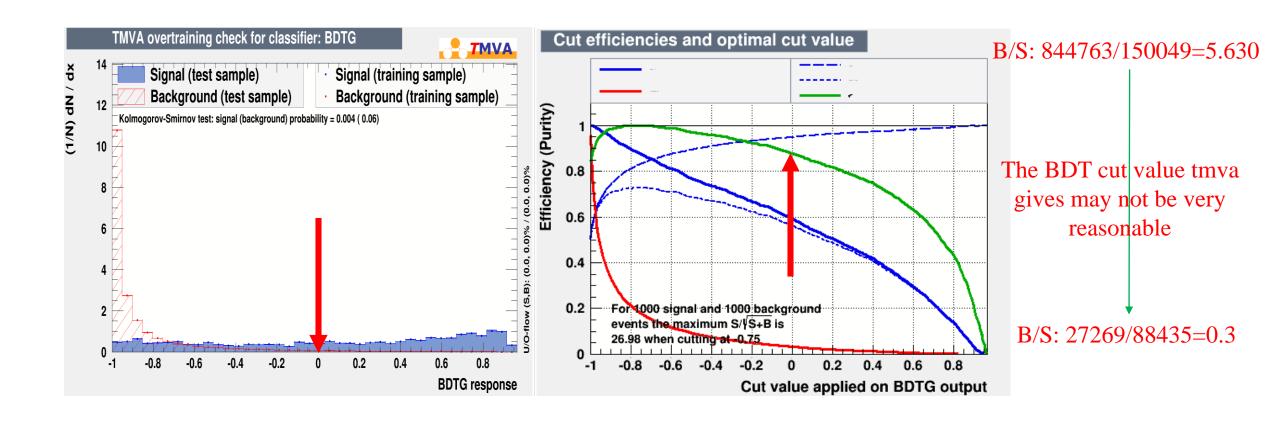
Maoqiang Jing

2018.07.20

Higgs → Invisible Analysis

☐ Run on 3 Tesla samples

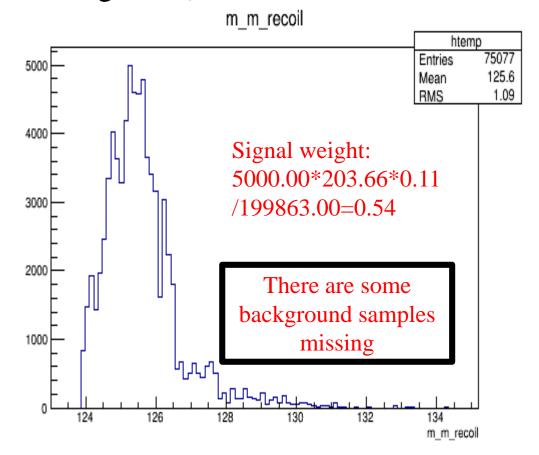
- ✓ Solve the conflict in pull request "Polish naming method" with the help of Xin and Ryuta
- ✓ Correct an error when applying BDT cut(mistaken signal tree and background tree)
- ✓ Reapply BDT cut and get a better result

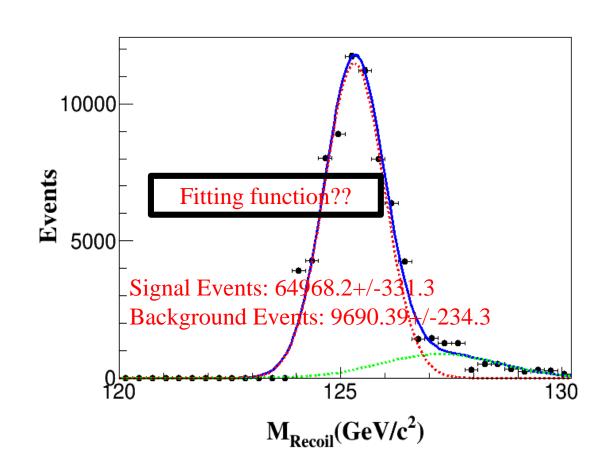


Higgs → Invisible Analysis

☐ Run on 3 Tesla samples

- ✓ Synthetize signal and background samples
- ✓ Fit The recoiling mass spectra using Double Gaussian(One for signal and one for background)



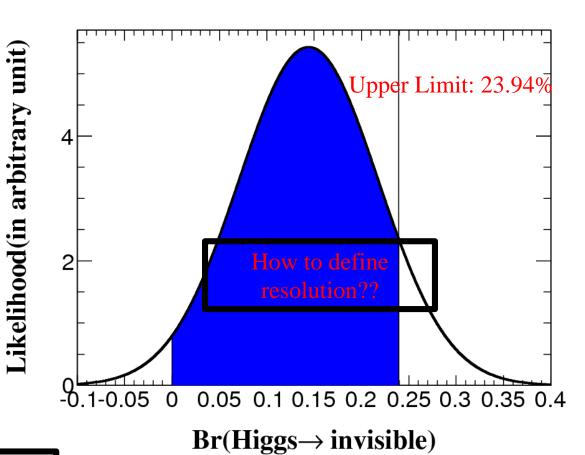


Higgs \rightarrow Invisible Analysis

- ☐ Run on 3 Tesla samples
 - ✓ Calculate upper limit of branch ratio

Kaili said he had finished 240GeV results, I don't know how he can do that with some samples missing(Maybe we misunderstand something?)

$$= \frac{N^{sig}/efficiency}{N^{tot}} = \frac{N^{sig}/efficiency}{N^{tot}} = \frac{N^{sig}/efficiency}{\int luminositydt * \sigma^{tot}} = \frac{64968.20}{88435.00} * 199863.00 = 14.42\%$$



Plan of next week??