# Weekly Meeting

HUIJUN

## Remaining questions from EB

5 questions left after last EB meeting

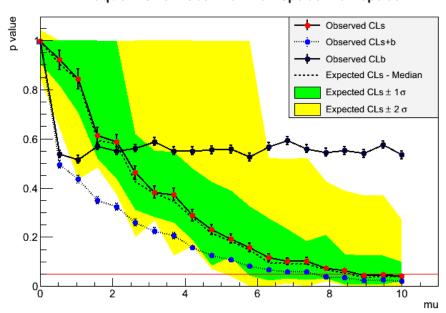
- 1. Use the anti-phi of sumEt of all the hard object as the direction of MET
- 2. Resolve the z part of MET to reconstruct H mass
- 3. Using fit instead of number counting to get the result
- 4. Madgraph multijet overlap removal between different background components
- 5. Change the algorism in tables of object selection

## Fit result

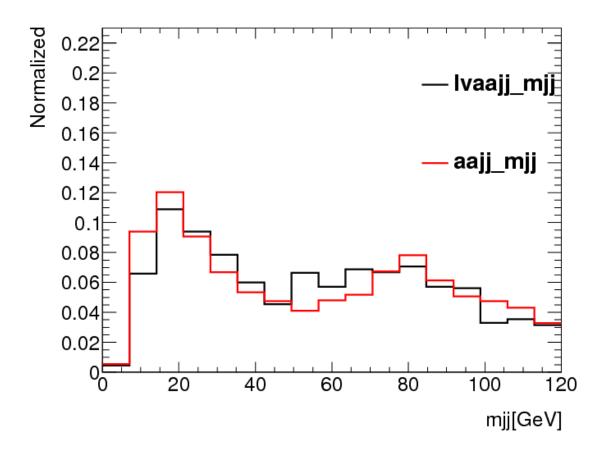
Using bkg only instead of bkg+signal assumption

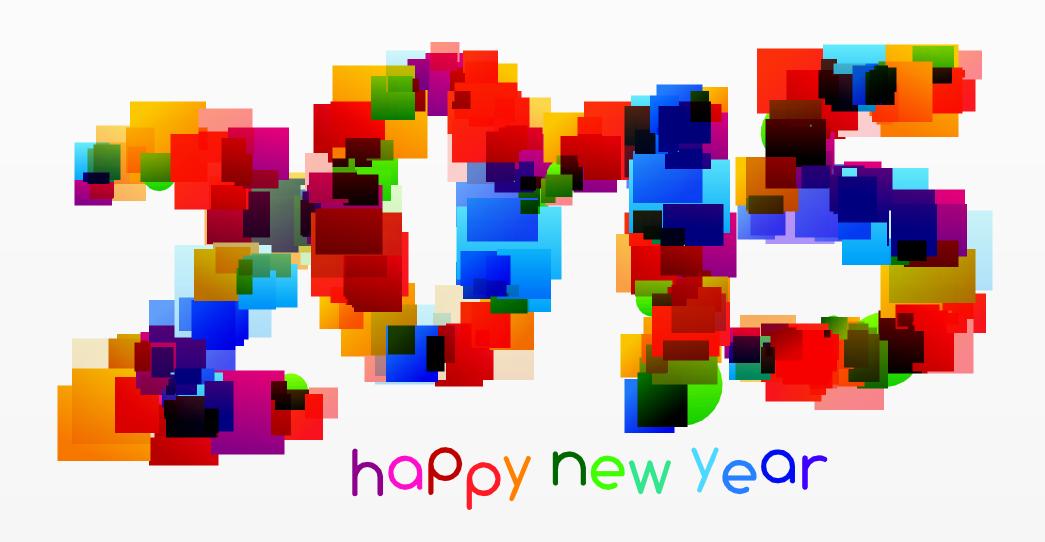
The result is still worse than number counting

#### Frequentist CL Scan for workspace workspace



## Dijet mass





## Backup

## Answering the questions from EB

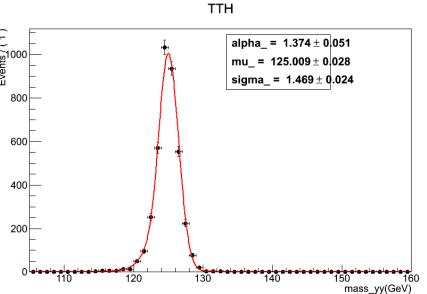
### 4 questions left:

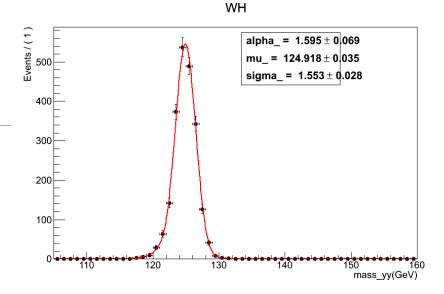
- 1. Use the anti-phi of sumEt of all the hard object as the direction of MET
- 2. Resolve the z part of MET to reconstruct H mass
- 3. Using fit instead of number counting to get the result
- 4. The overlap between different background components

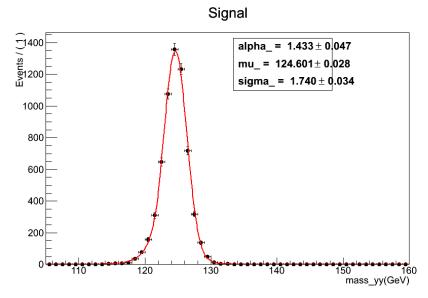
### Fit

The result of fit result is quite dependent on parameters
We have to fix each para to reduce freedom
We cannot use 1 pdf to describe signal wh zh tth..

mass yy(GeV







## Background components

Here we just consider p p > lvyyjj with different QCD vertex number to avoid the overlap caused

By parton shower

