Weekly Meeting

HUIJUN

Current status

Writing the dR match code within the dumper package
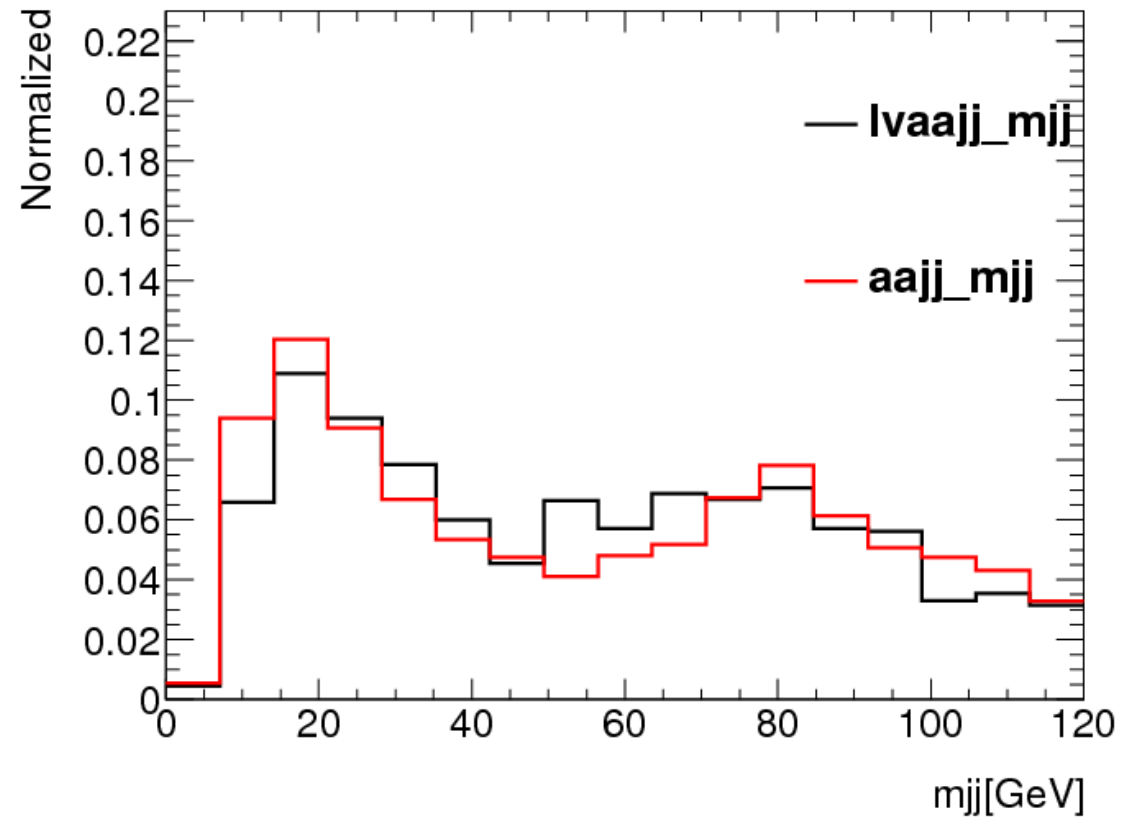
Debuging….

Discussed with Jin about the fit code

No result yet…

Doing home work & preparing the examination…

Dijet mass

MERRY CHRISTMAS

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
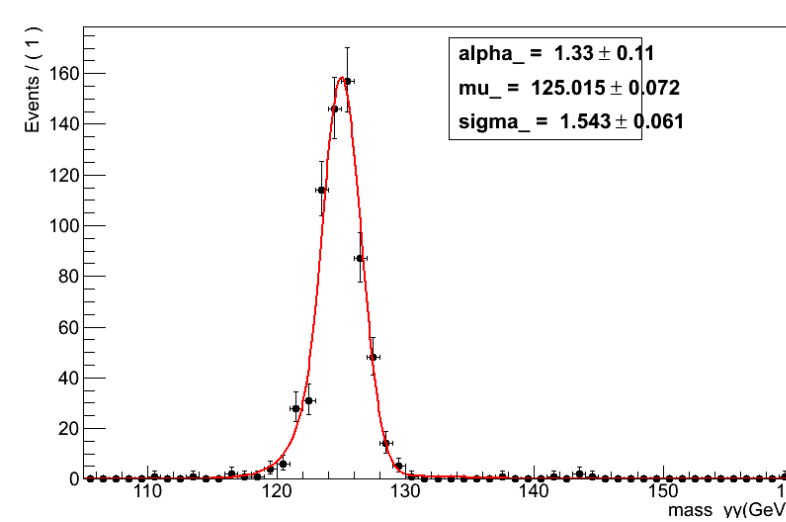
Fit

The result of fit result is quite dependent on parameters
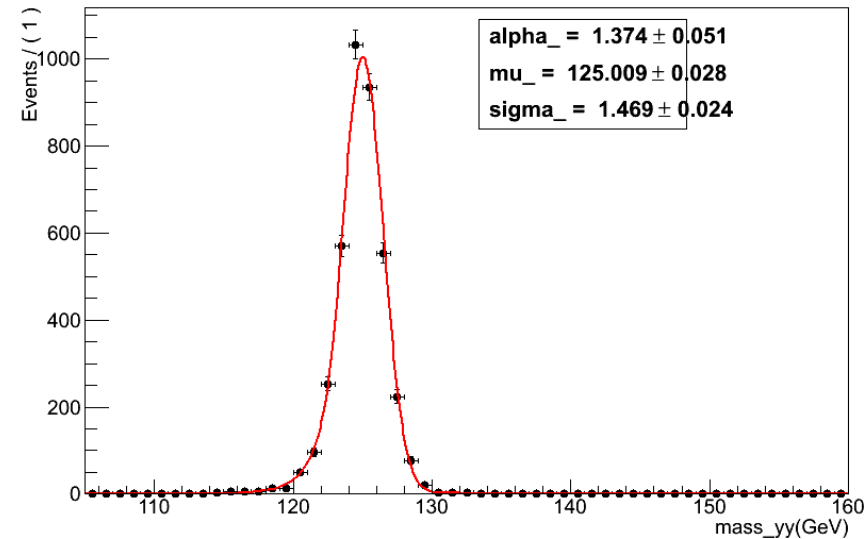
We have to fix each para to reduce freedom

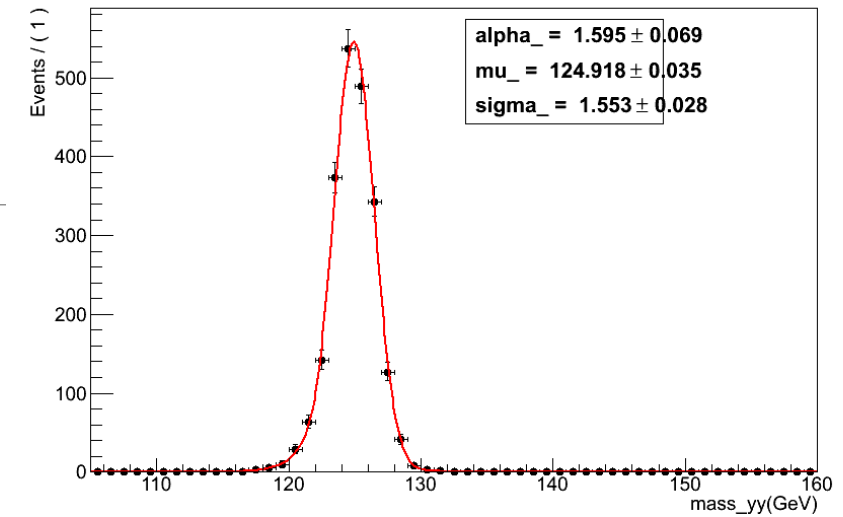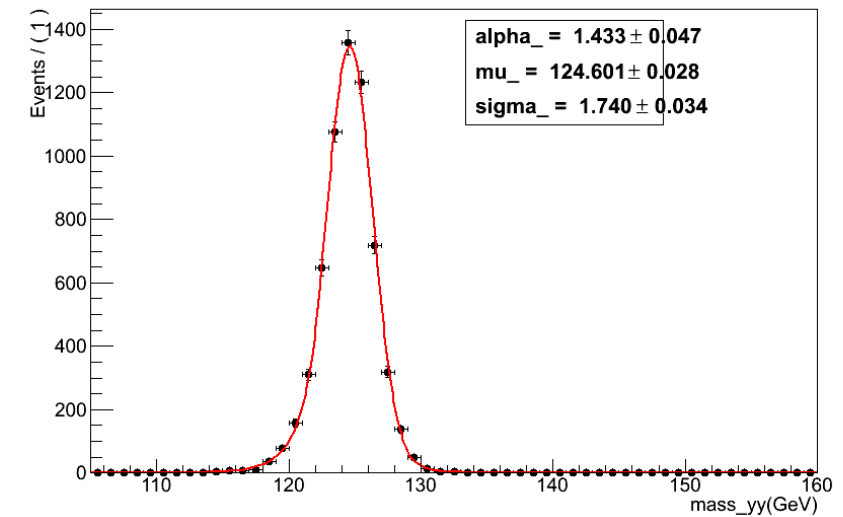We cannot use 1 pdf to describe signal wh zh tth..

I am struggling on that…

WH

alpha_ = 1.595 ± 0.069
mu_ = 124.918 ± 0.035
sigma_ = 1.553 ± 0.028

ZH

alpha_ = 1.33 ± 0.11
mu_ = 125.015 ± 0.072
sigma_ = 1.543 ± 0.061

TTH

alpha_ = 1.374 ± 0.051
mu_ = 125.009 ± 0.028
sigma_ = 1.469 ± 0.024

Signal

alpha_ = 1.433 ± 0.047
mu_ = 124.601 ± 0.028
sigma_ = 1.740 ± 0.034

Background components

Here we just consider p p > lvyyjj with different

QCD vertex number to avoid the overlap caused

By parton shower