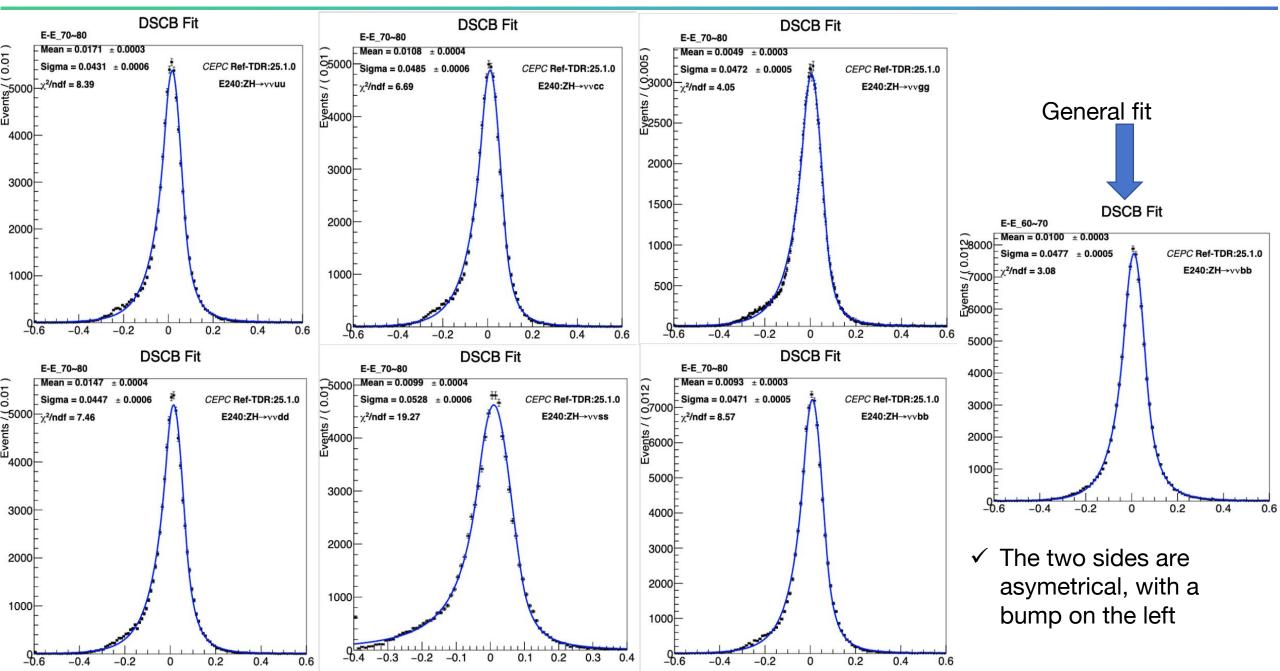
# JES/JER

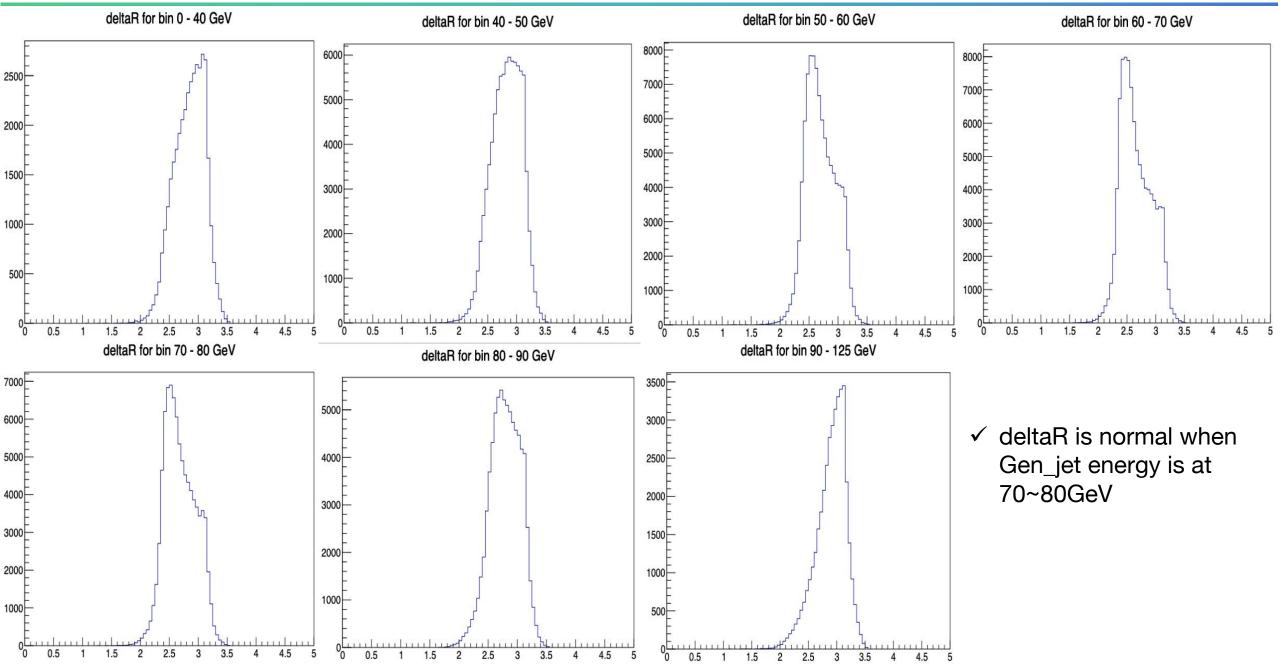
Hou Yingqi

2025/2/26

#### DeltaE of jet at 70~80GeV



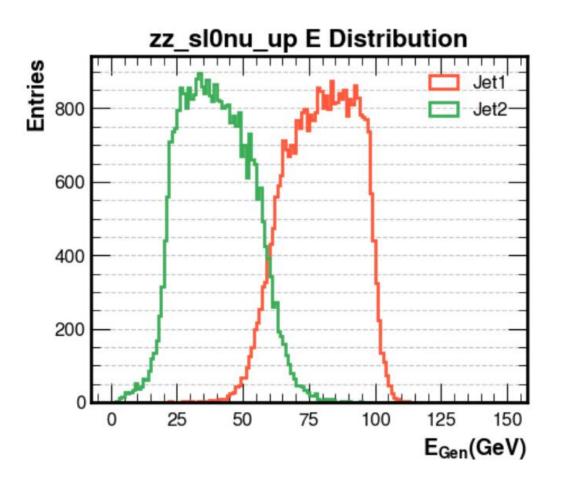
## DeltaR of two jets(GEN) in nnHbb

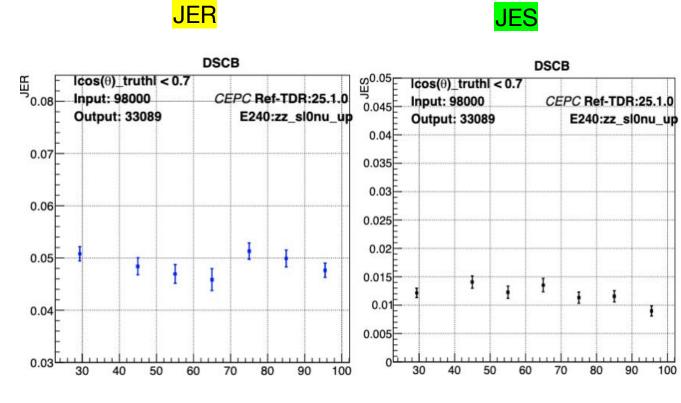


#### zz\_sl0nu\_up jet energy distribution

✓ costheta\_truth<0.7

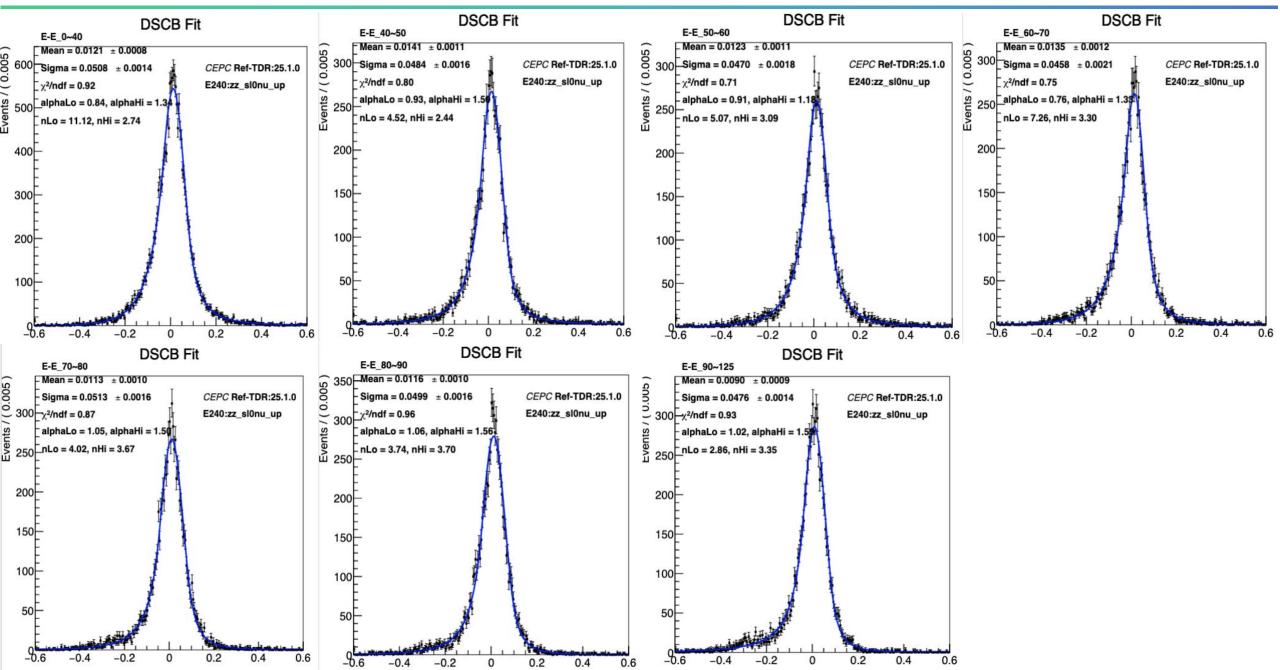
# DSCB





JER has a jump at 70~80 GeV

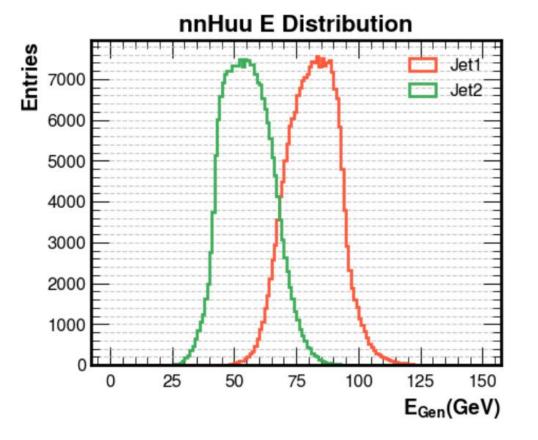
#### fit result

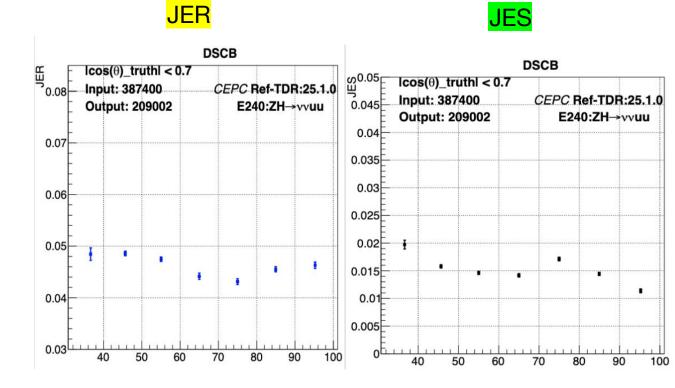


#### nnHuu jet energy distribution

✓ costheta\_truth<0.7

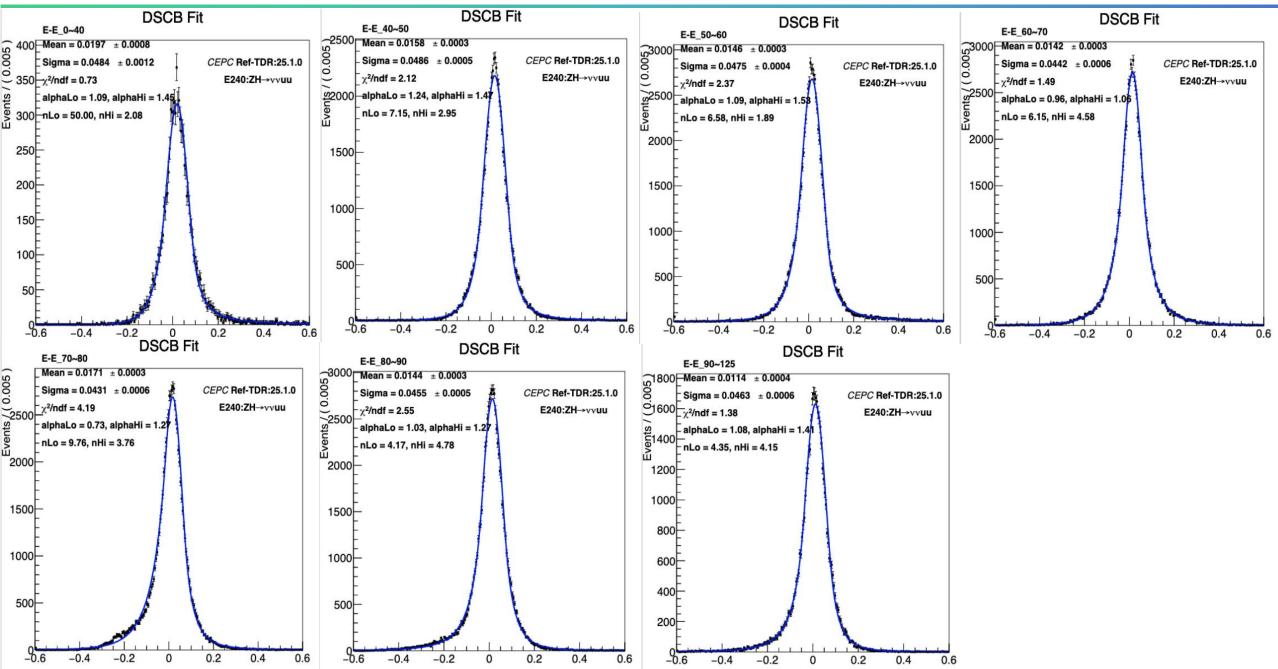
# DSCB



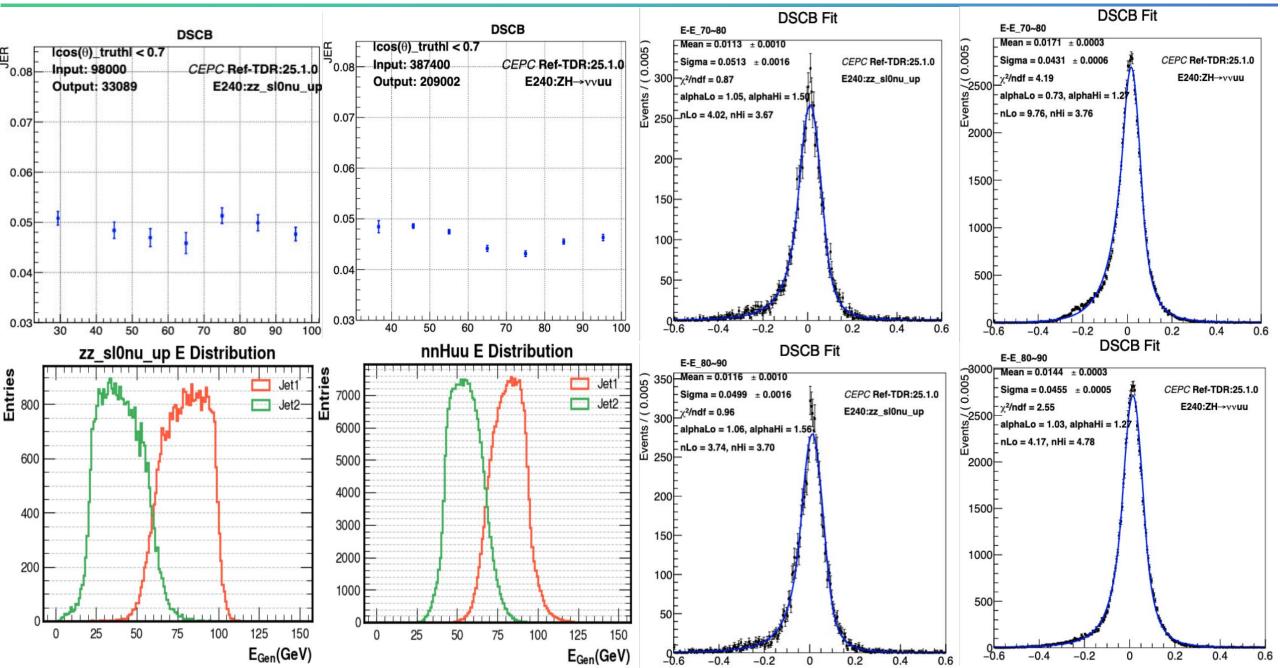


• JER has the smallest value between 70 to 80GeV.

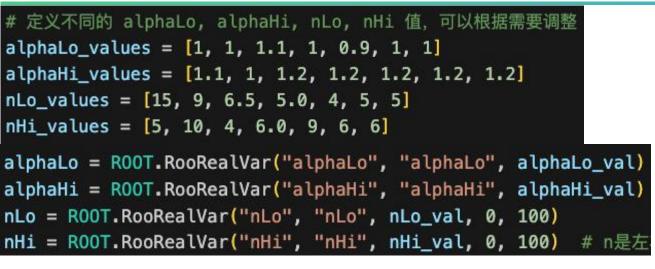
#### fit result

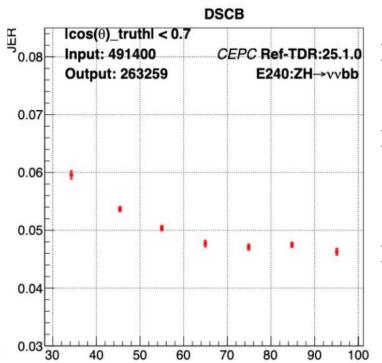


#### comparison of JER of u

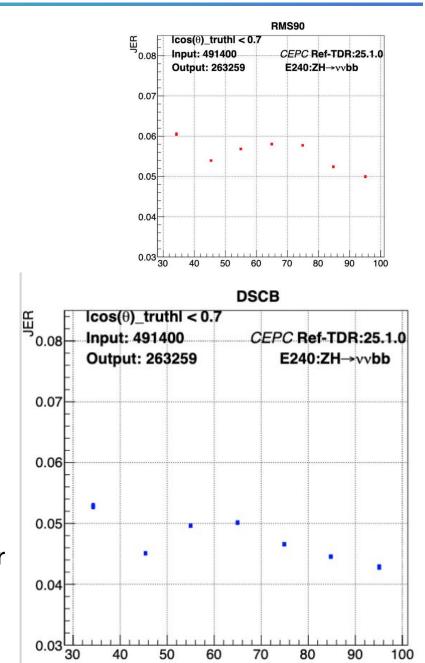


#### improvement of DSCB

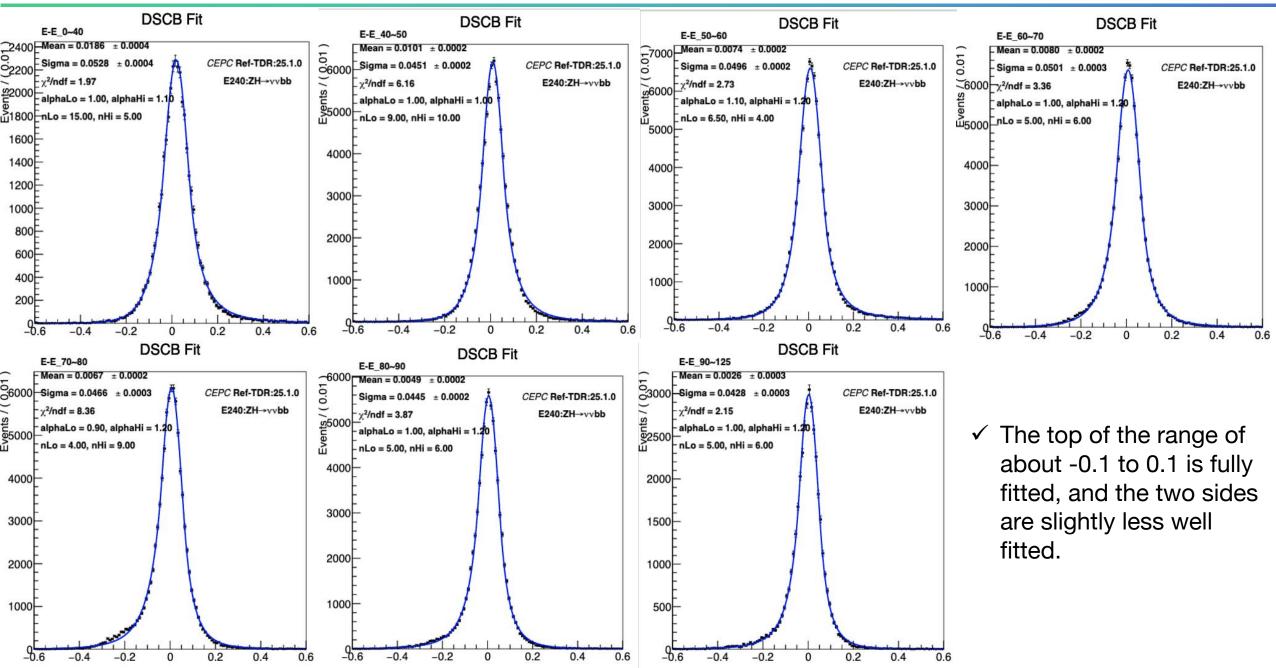




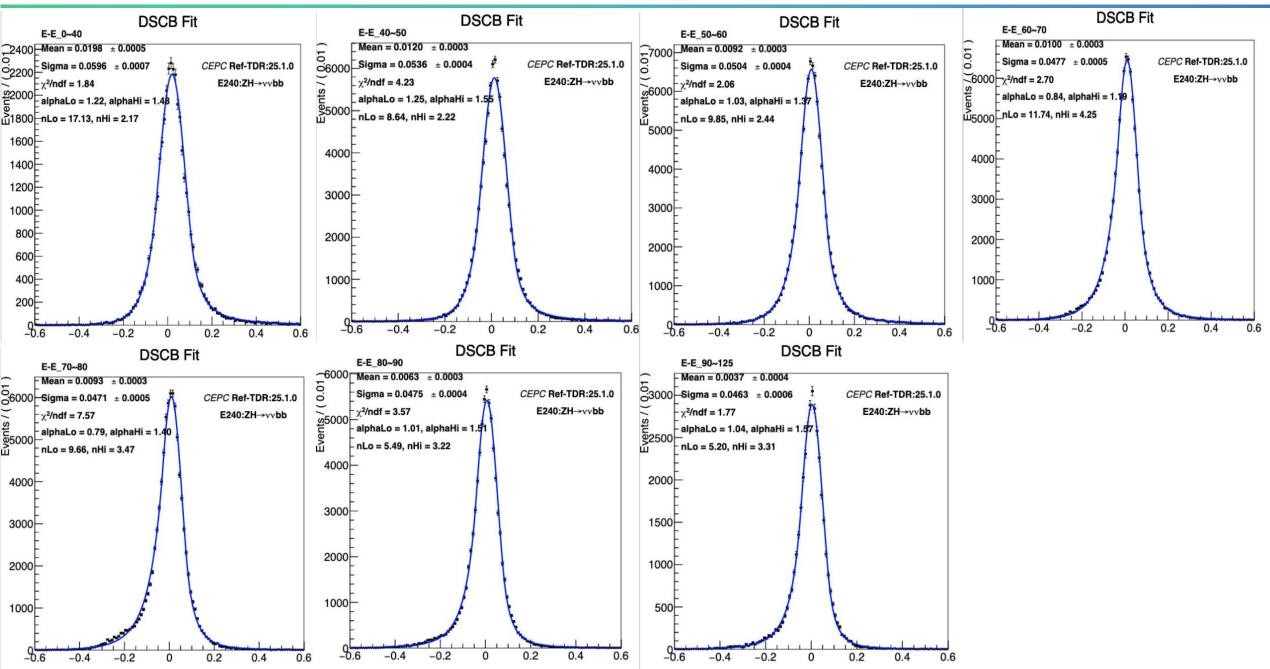
- Fix the corresponding four parameters so that the top data can be fitted.
- The JER of high energy region decreased significantly, but the overall trend was not obvious.
- The reliability of this methord needs futher discussion.

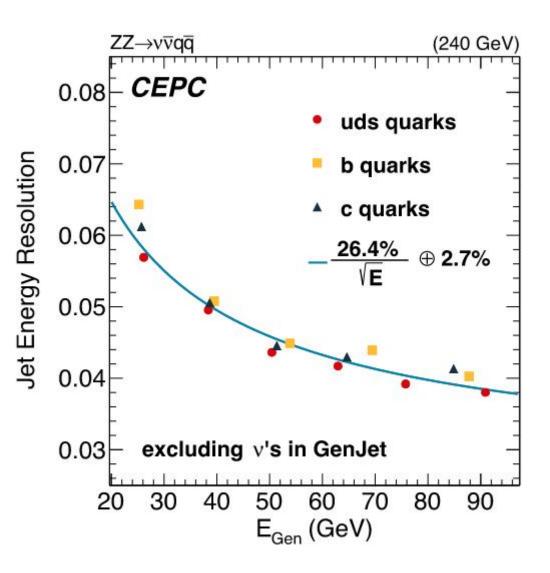


### fit result of DSCB improved

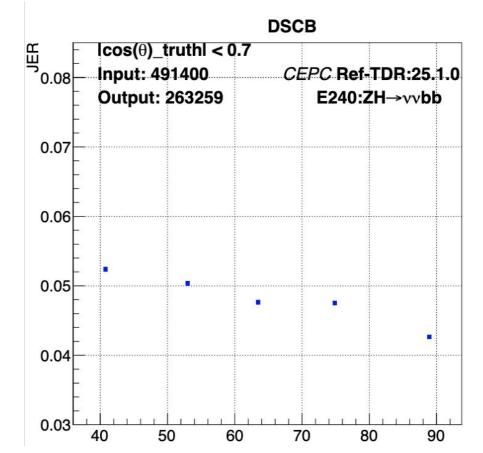


#### fir result of DSCB before

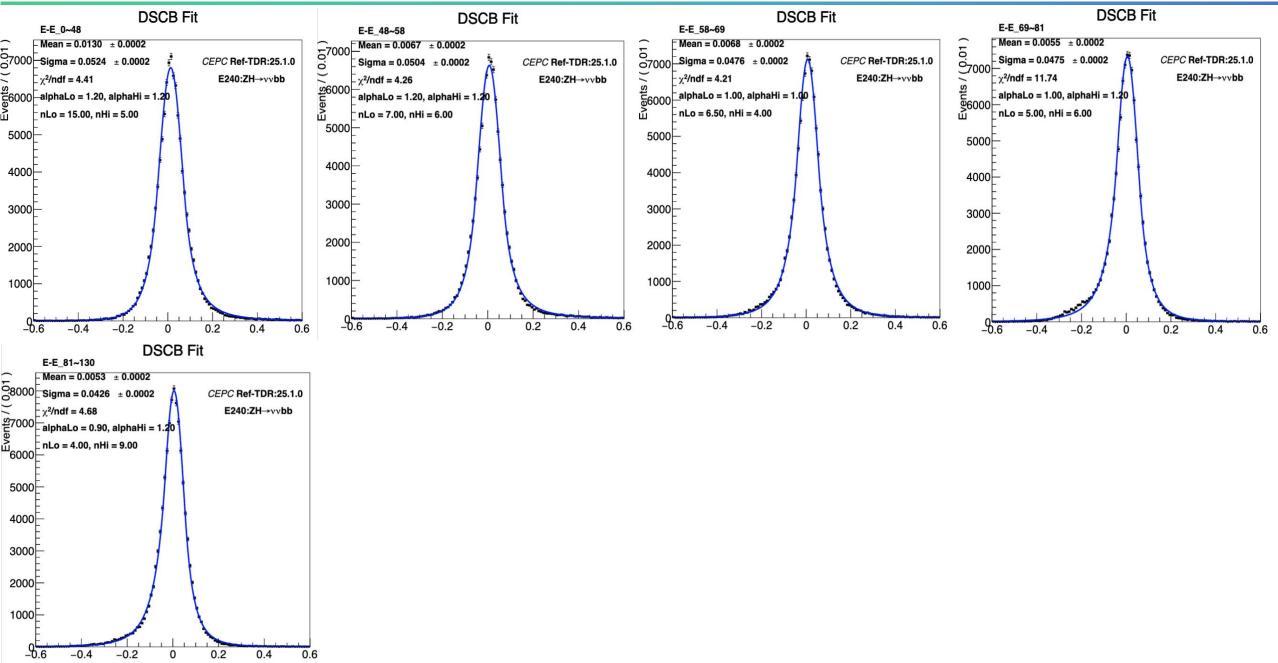




Each interval contains the same number of instances.



# fit result



# Thanks!