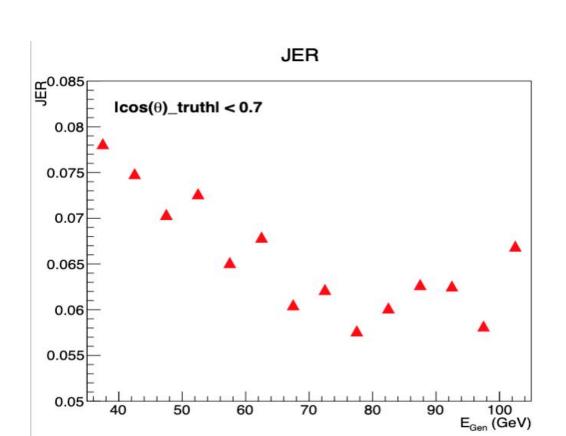
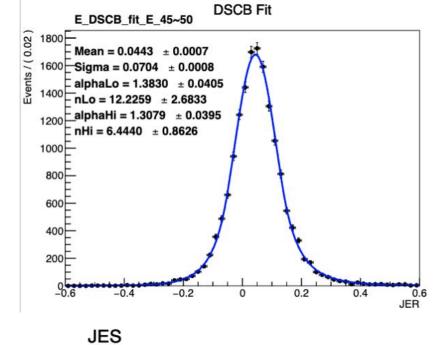
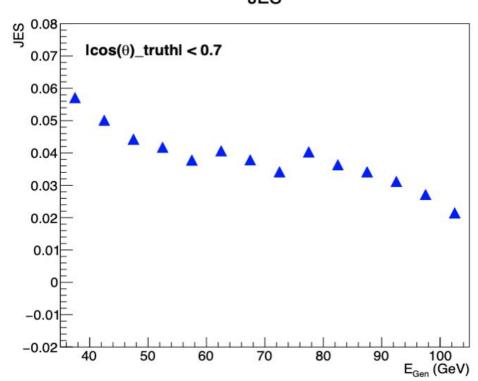
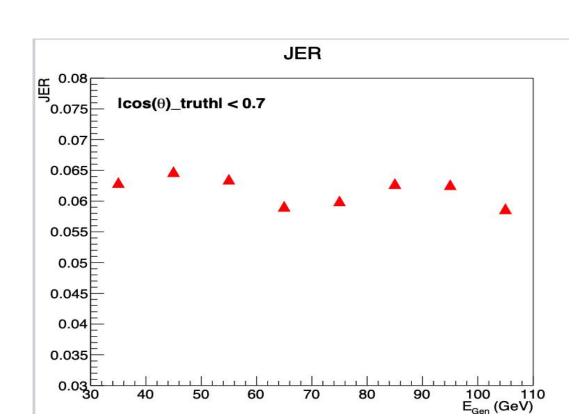
vvHgg

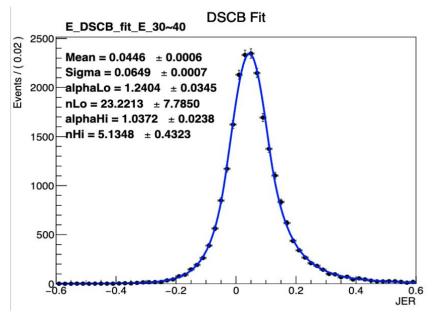




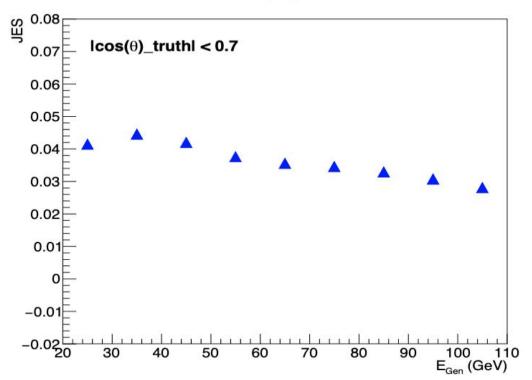


vvHbb

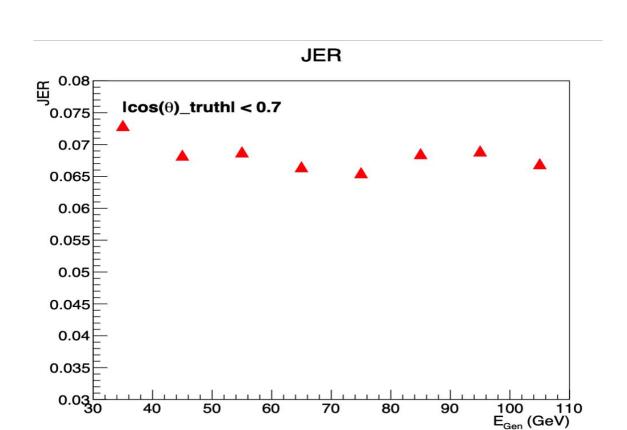


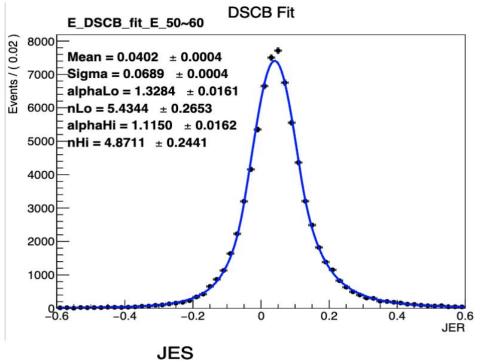


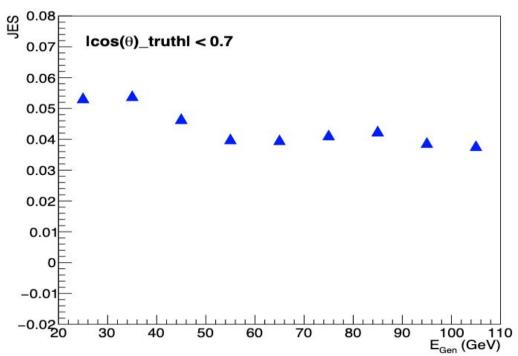
JES



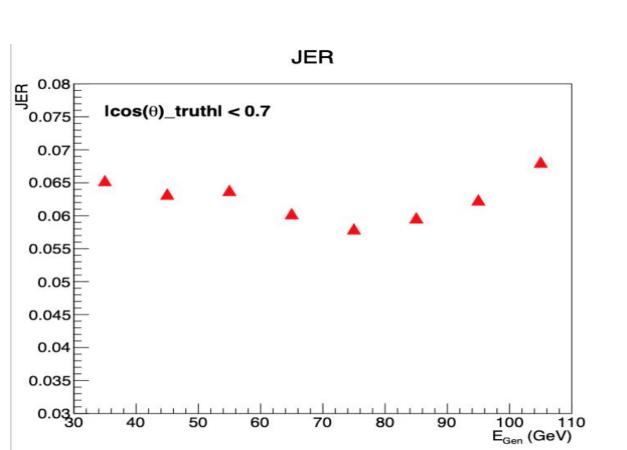
vvHcc

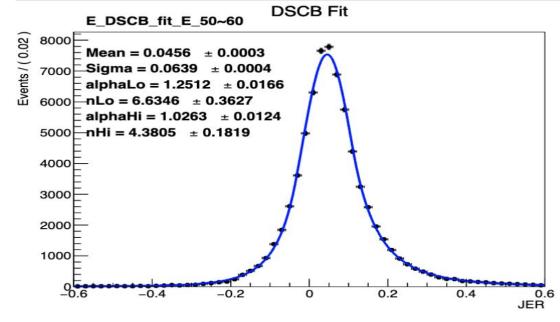


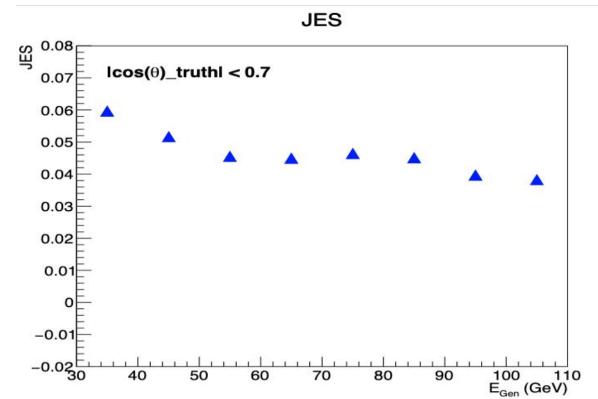




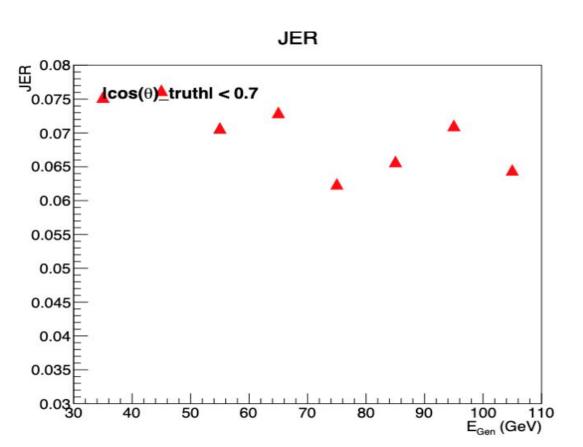
vvHdd

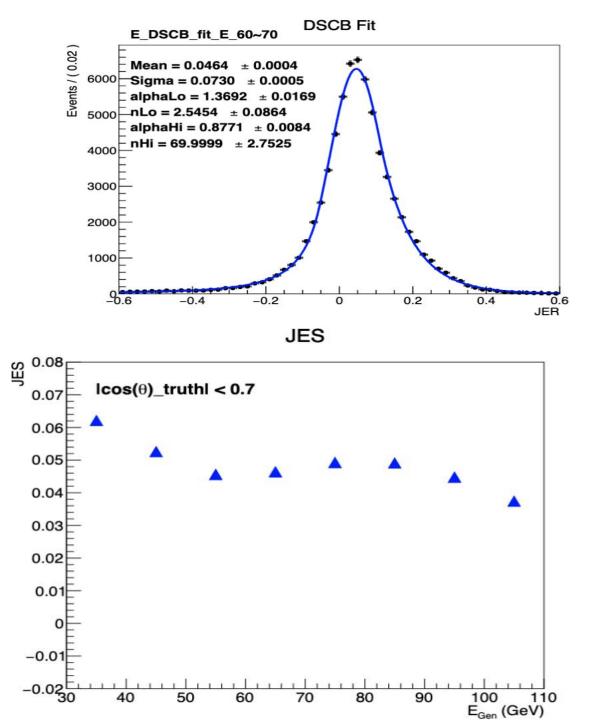




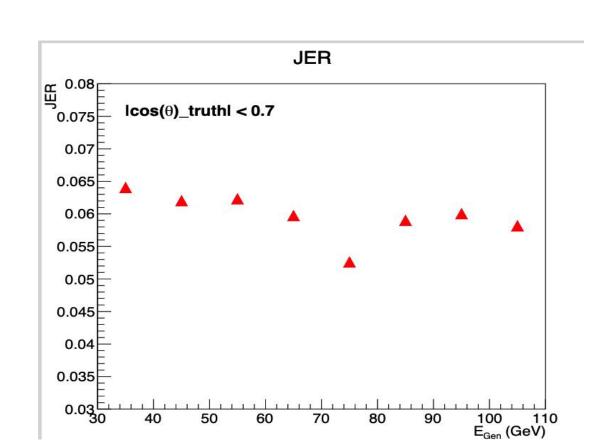


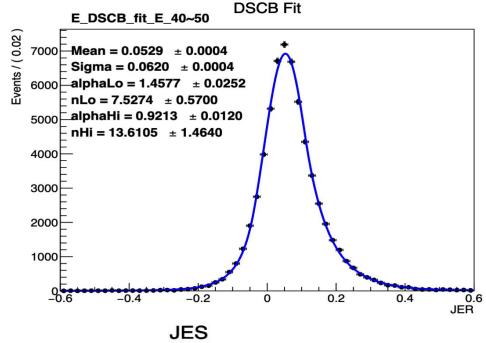
vvHss

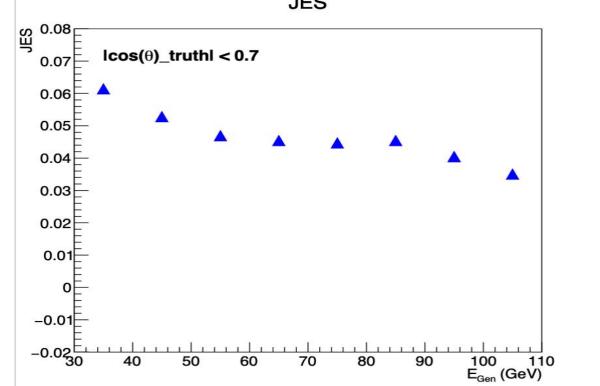




vvHuu





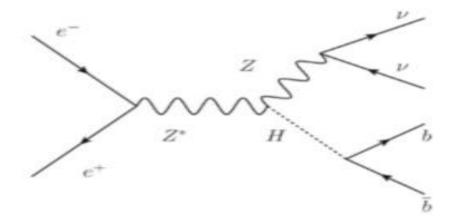


JER&JAR

Hou Yingqi

2024/11/13

Process



ZH->vvH,H->bb

data = getEntries("/cefs/higgs/houyingqi/jet_bbtotal.root", "jets", variables)

from Kaili.

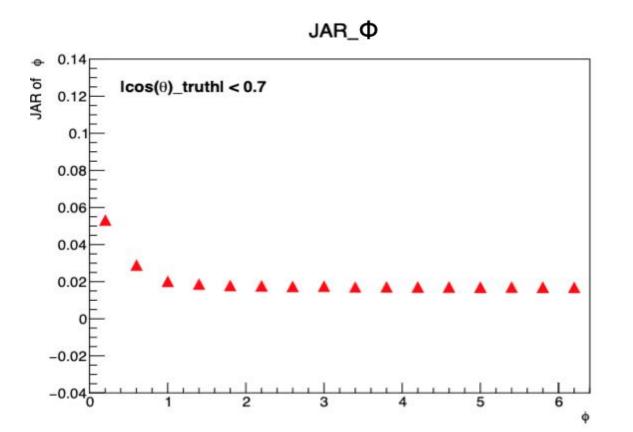
data_barrel = data[(abs(data["jet1_costheta"]) < 0.70) & (abs(data["jet2_costheta"]) < 0.70)]</pre>

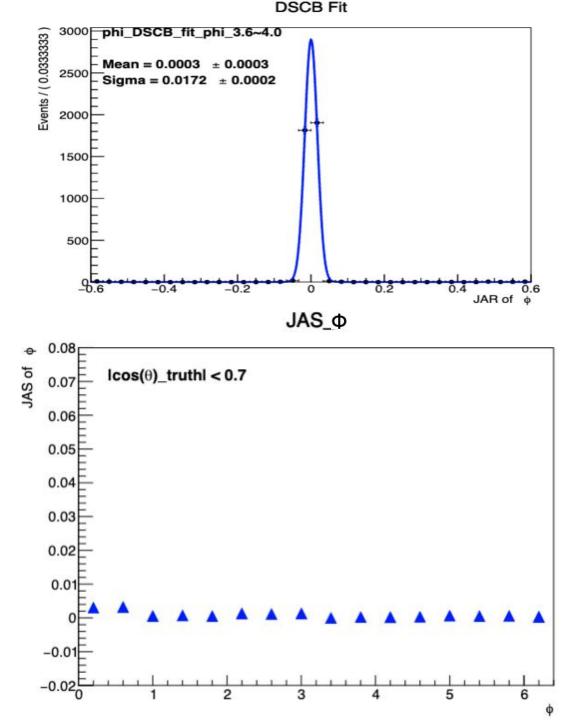
Total number of entries in dataAWK: 31486

Delta_jet = (Reco_jet-Gen_jet)/Gen_jet

Events above and below the scope limits are included.

- ✓ JAR of Φ reaches its maximum at Φ =0.
- ✓ JAS of Φ doesn't change significantly with Φ .

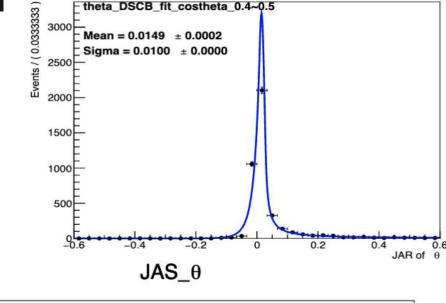




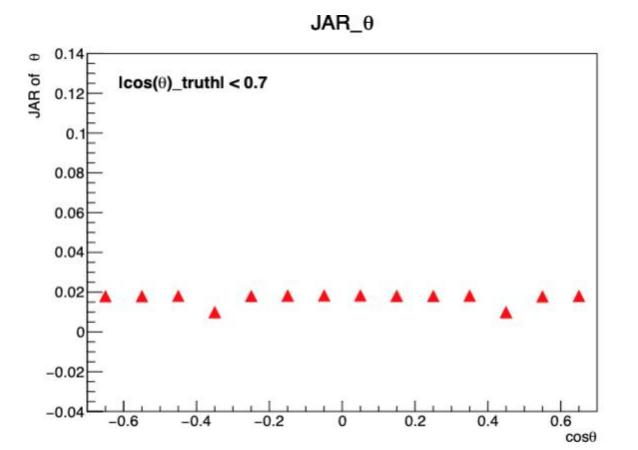
10

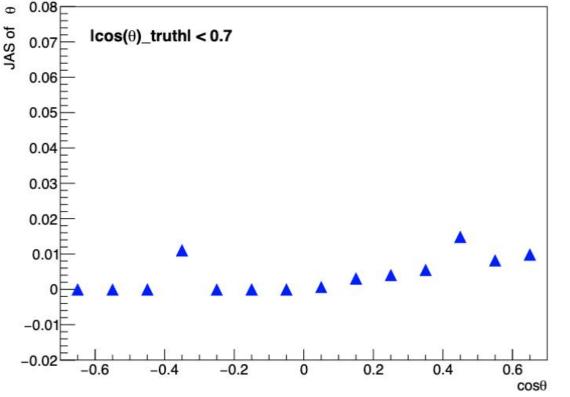
DSCB Fit

- ✓ JAR of θ doesn't change significantly with the increase of cos θ .
- ✓ JAS of θ gradually increases as $\cos\theta$ increases.

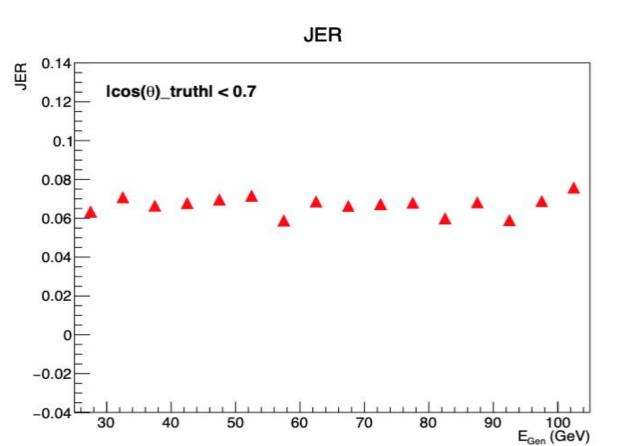


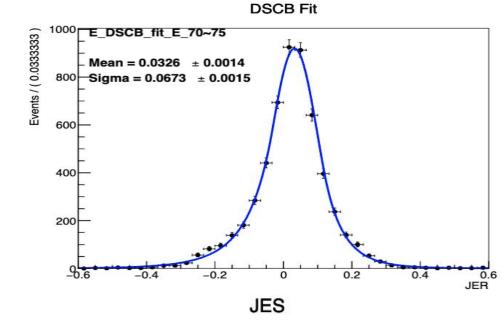
11

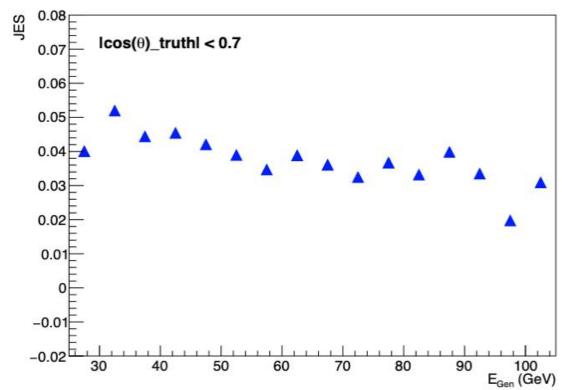




- > JER doesn't change significantly with the increase of energy.
- > JES gradually decreases as energy increases.

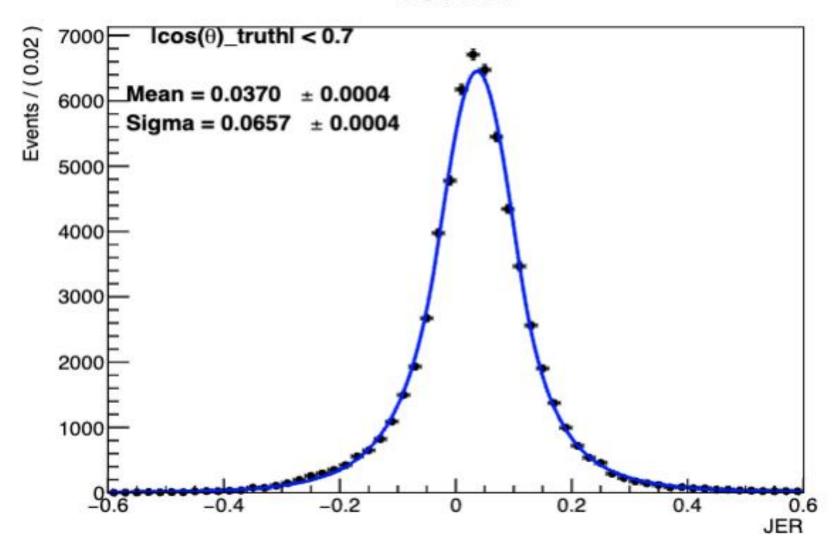




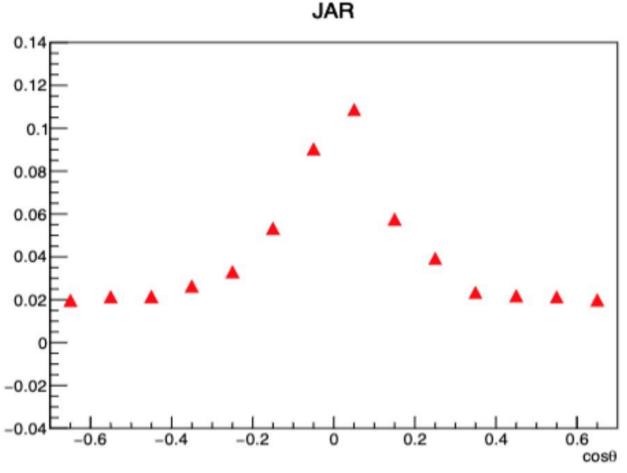


Jet(modification)

DSCB Fit



Addtionly Find



- Incorrectly treated $\cos\theta$ as the variable of JAR.
- It has a peak at $\cos\theta=0$. Why?

Back Up

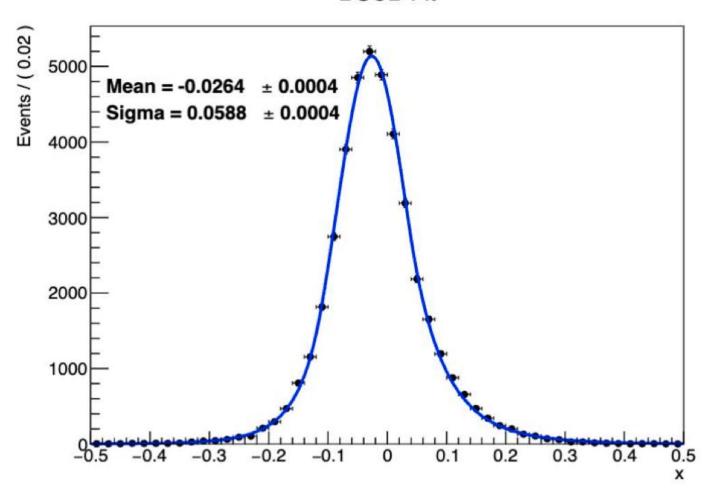
JER

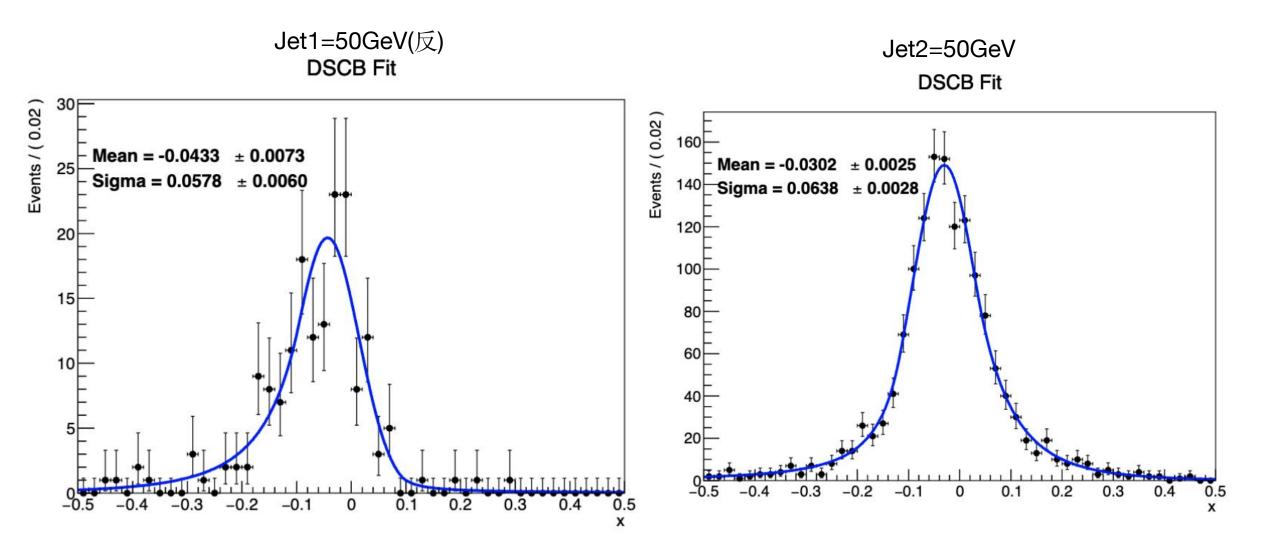
Hou Yingqi

2024/11/06

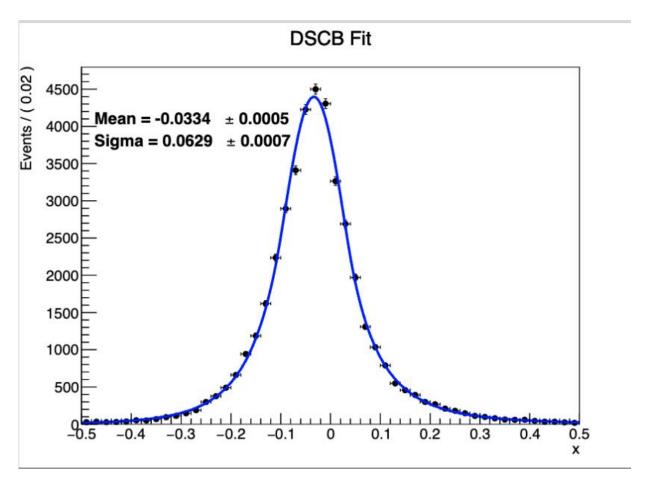
jet1 + jet2(是不区分jet1和jet2)

DSCB Fit



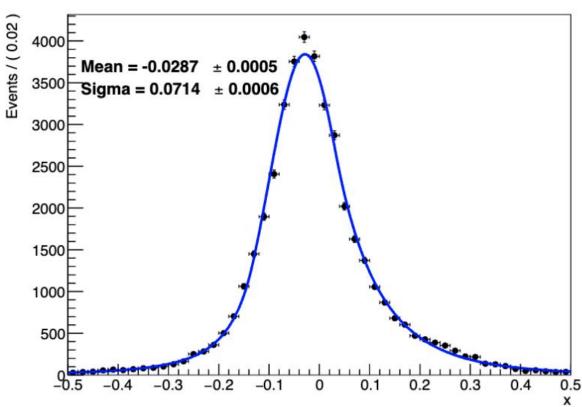


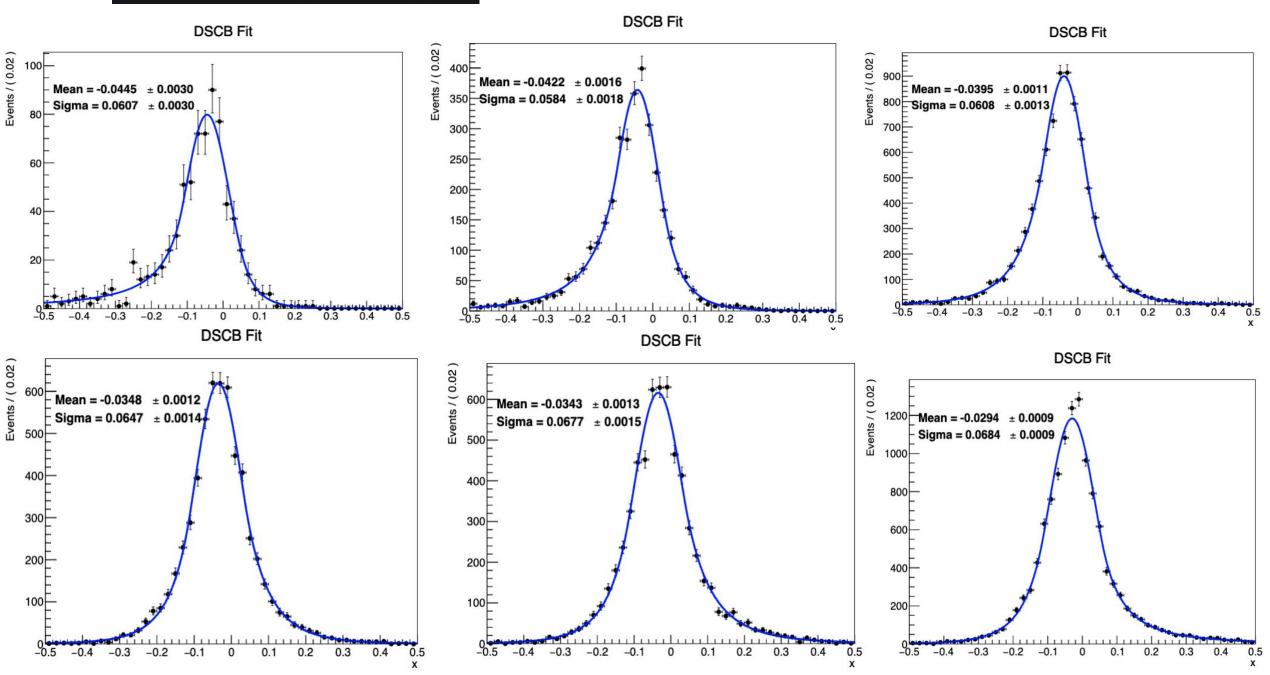
Jet1

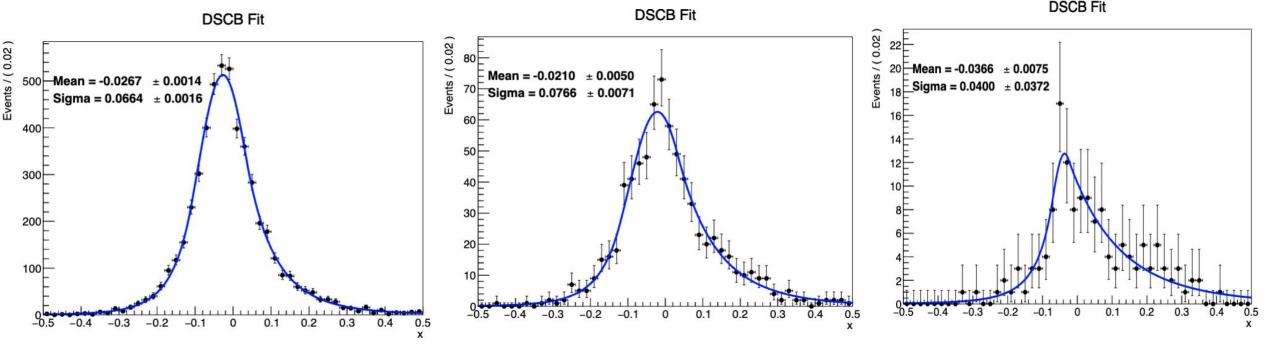


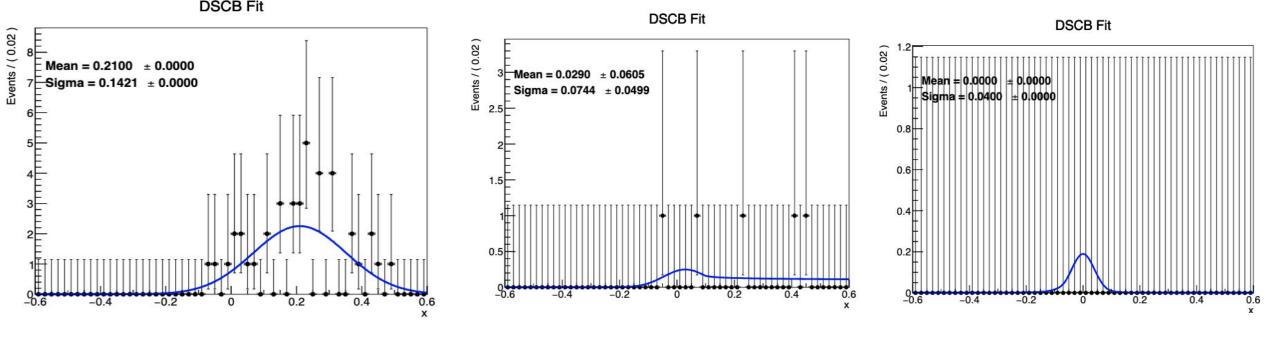
Jet2

DSCB Fit









Jet1 has better energy resolution than Jet2.