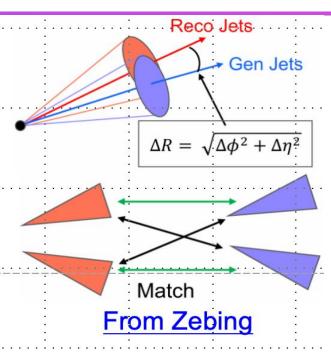
# JES/JER

Hou Yingqi

2025/3/19

#### Genmatch



before

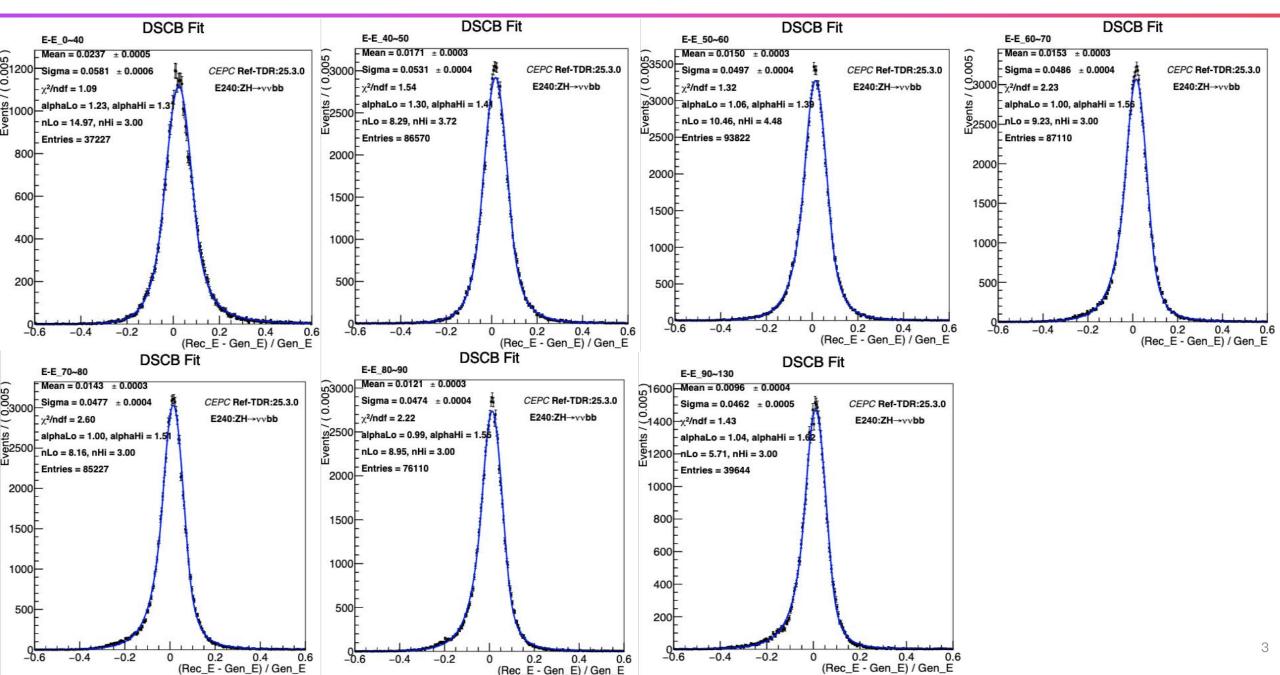
data\_barrel[ (data\_barrel["jet1\_GENMatch\_id"] != data\_barrel["jet2\_GENMatch\_id"]) ]

- ◆ only cases 1 and 2 are excluded, but case4 is also included.
- ① GEN1->1 GEN2->1
- ② GEN1->2 GEN2->2
- ③ GEN1->1 GEN2->2
- 4 GEN1->2 GEN2->1
- > now

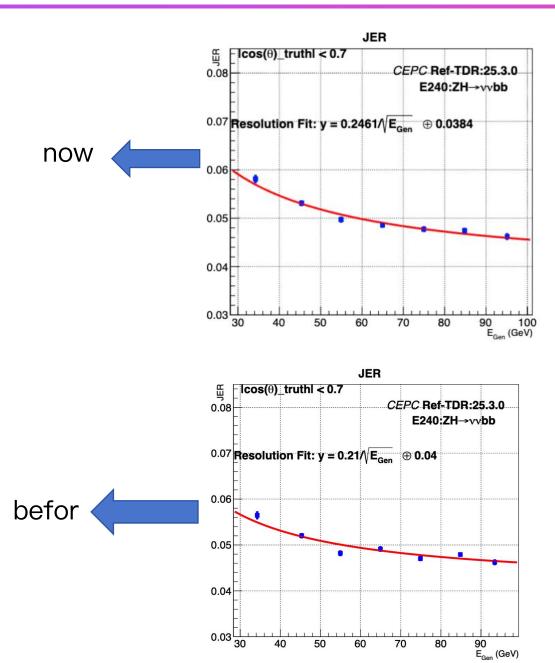
data1\_barrel[(data1\_barrel["jet1\_GENMatch\_id"] ==0) & (data1\_barrel["jet2\_GENMatch\_id"] ==1)]

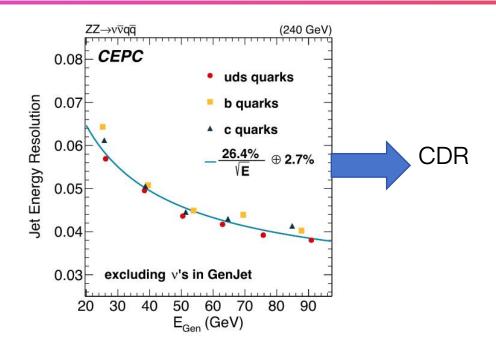
only cases 3 are included.

#### fit result

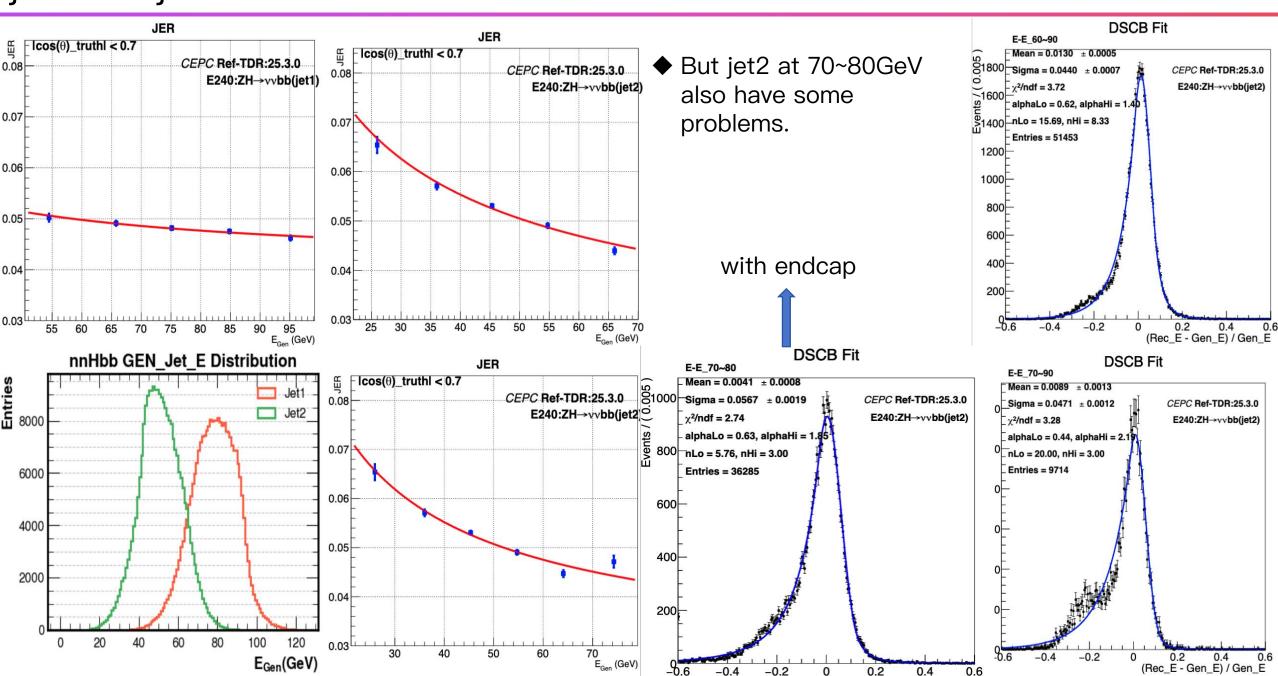


#### Compare

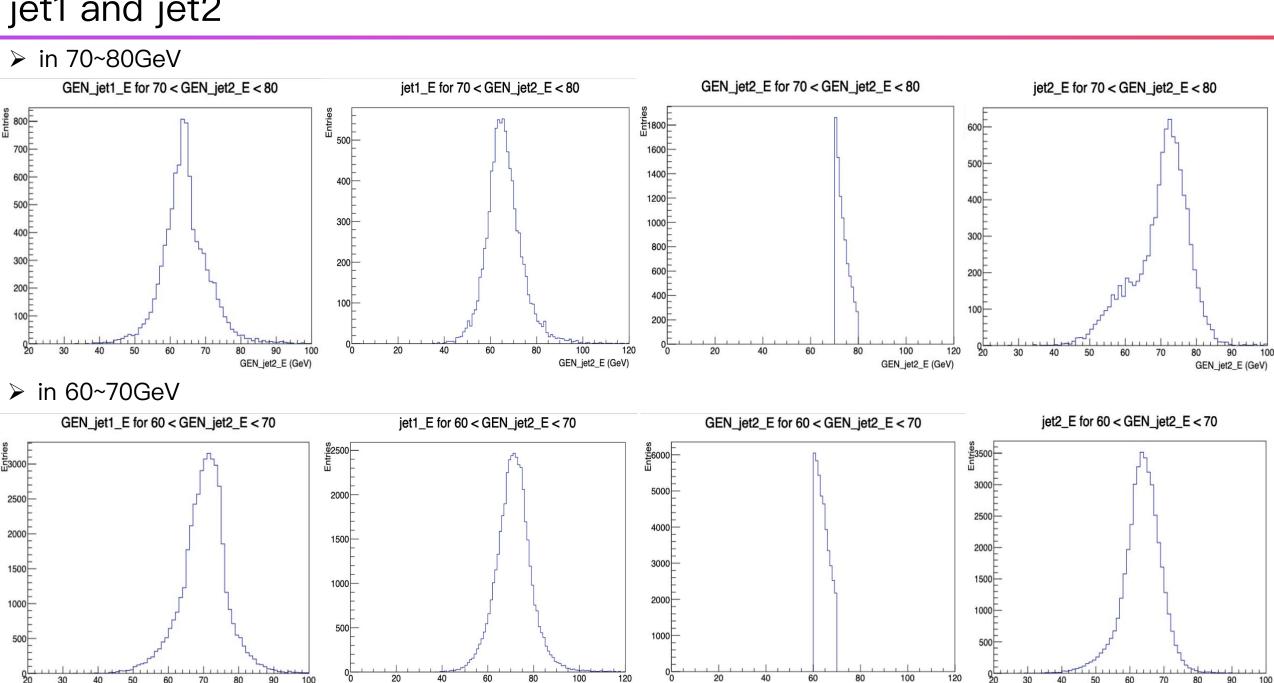




> The point hopping problem is solved.



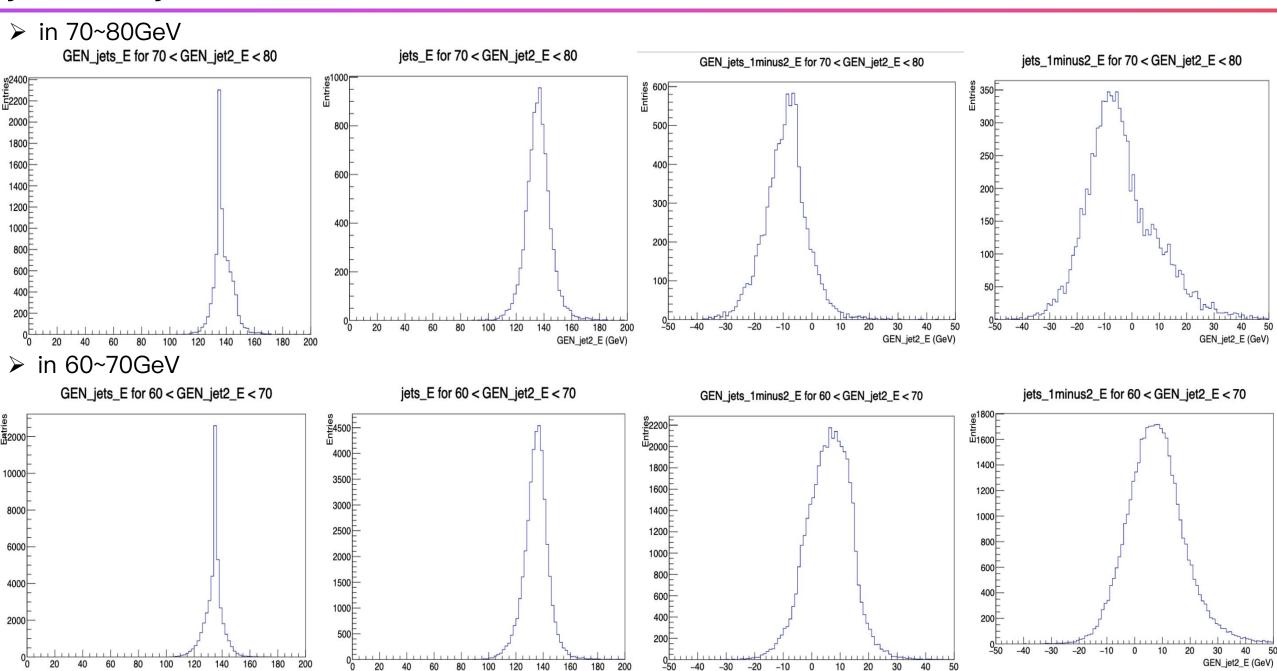
GEN\_jet2\_E (GeV)



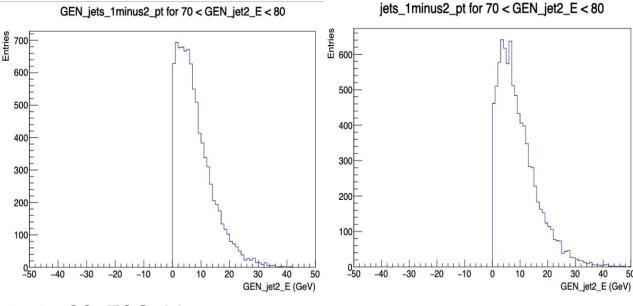
GEN\_jet2\_E (GeV)

GEN\_jet2\_E (GeV)

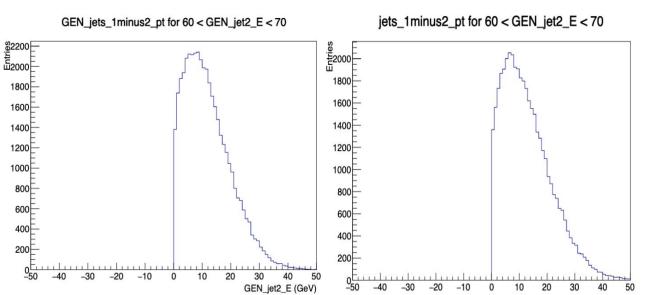
GEN\_jet2\_E (GeV)



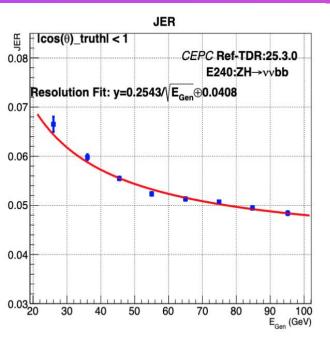
#### ➤ in 70~80GeV

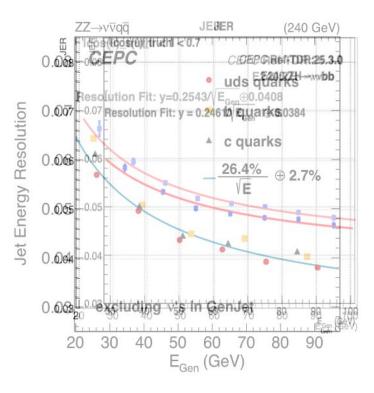


> in 60~70GeV

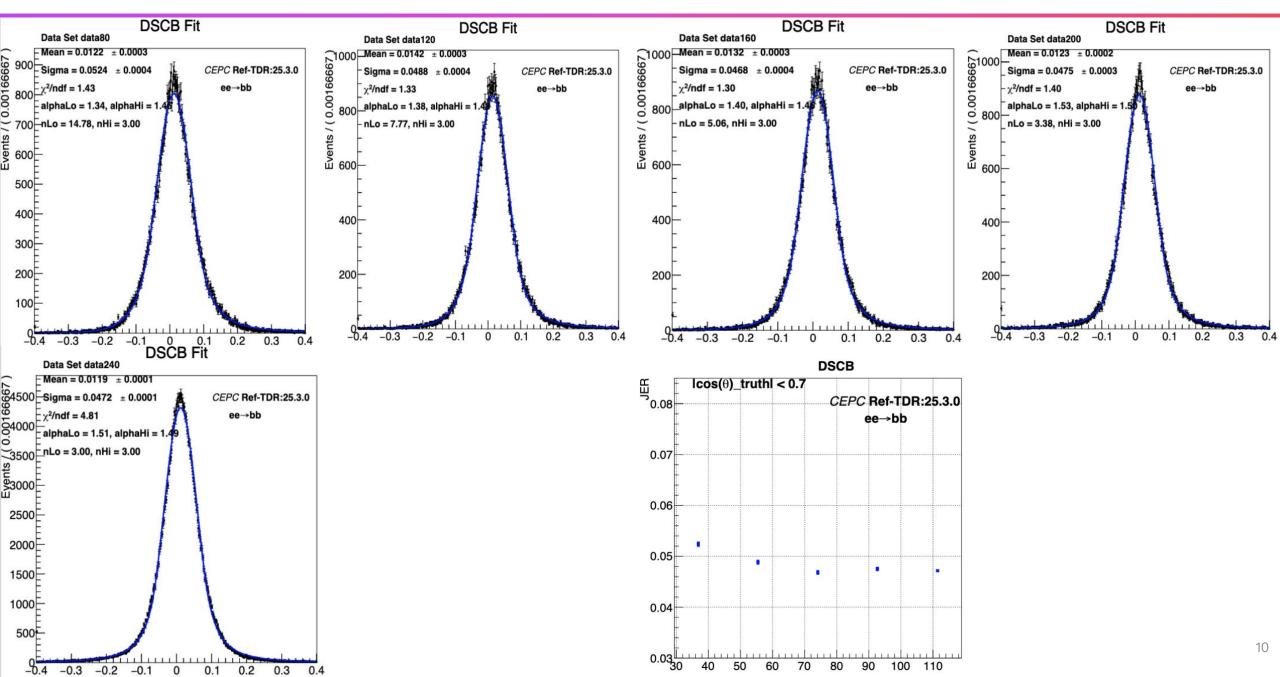


#### with endcap





#### eebb



# Back up!

