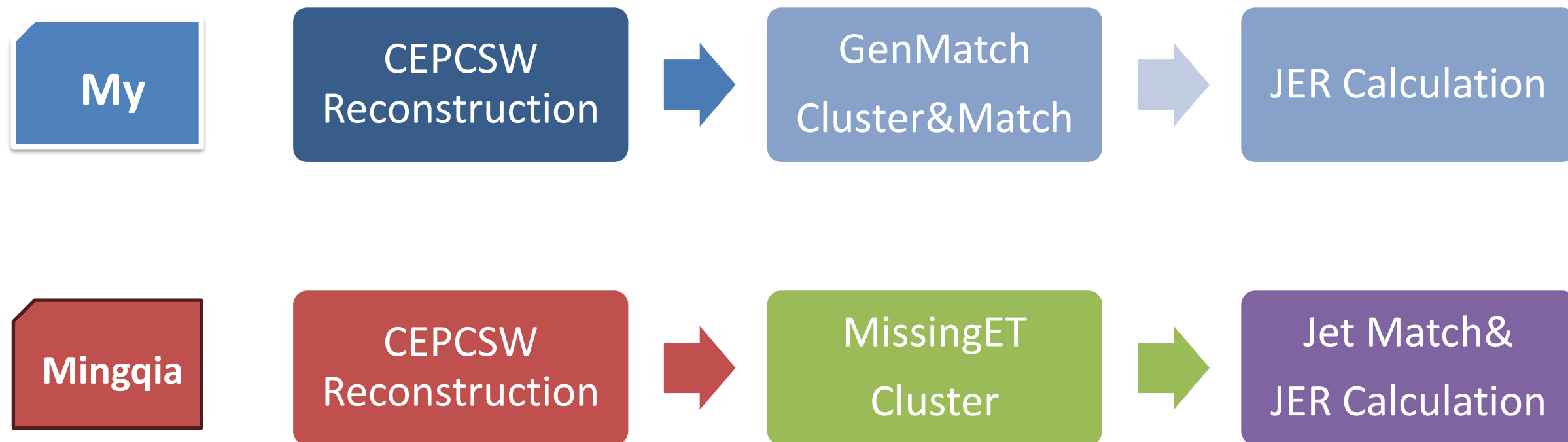


JER Cross Check

Hao Zhu / 24Jul2025

Workflow Compare

- I check the workflow between me and mingqia from stdhep level to the final JER result, here is the sketch for process of my JER work and mingqia's

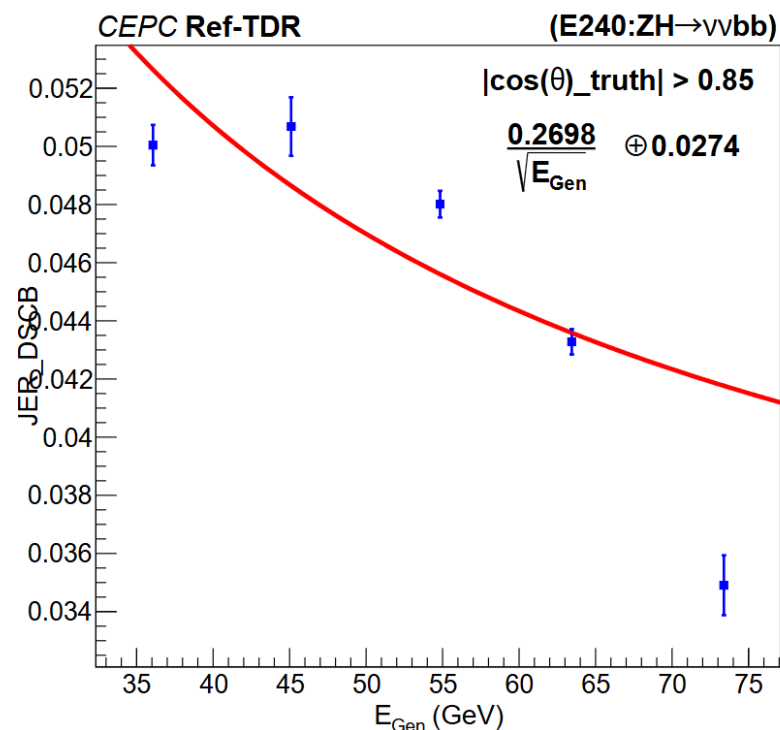


Reproduction of Result

- Result reproduced using Mingqia 's cluster level data

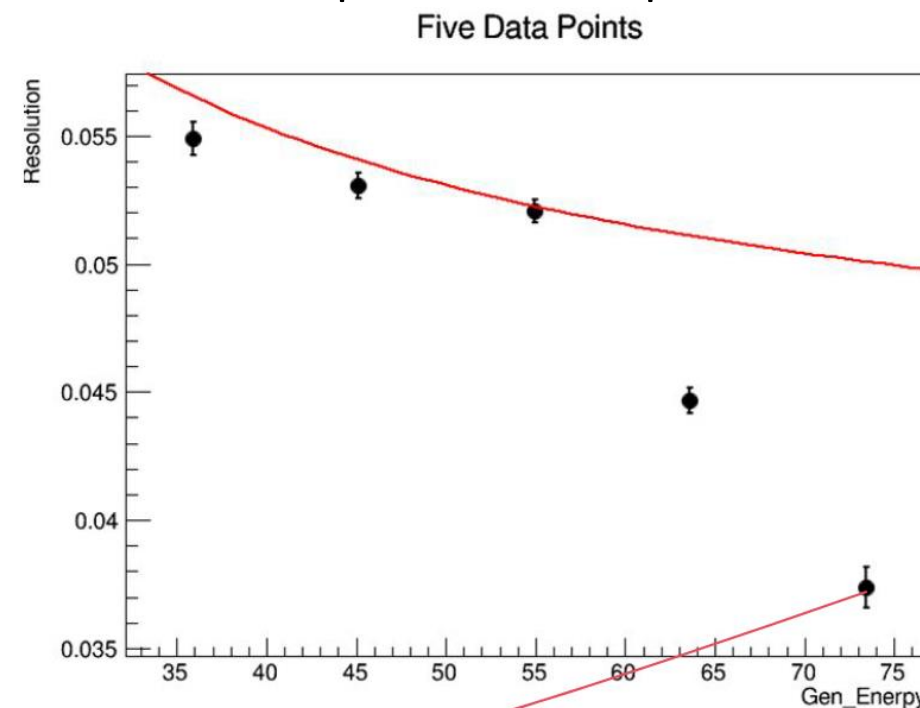
My process

- only match two jets with different jet ID



Mingqia's process

- use mcparticle information and match quark-antiquark



Reproduction of Result

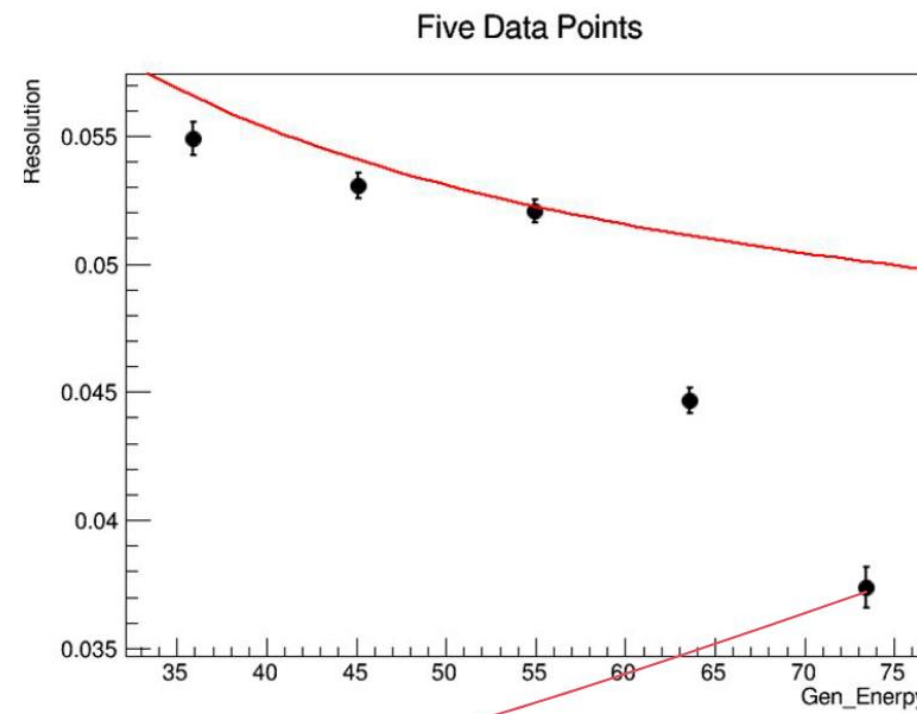
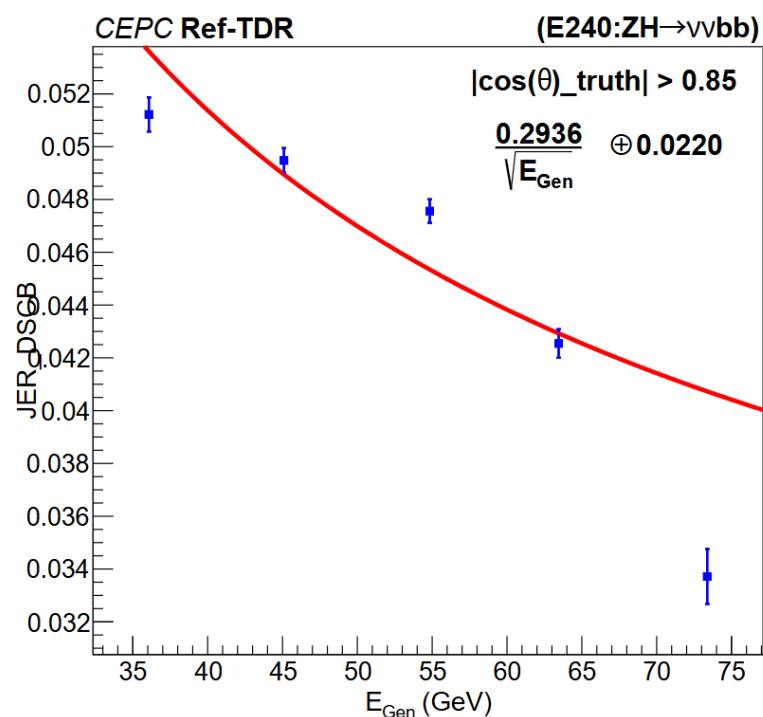
- Result reproduced using Mingqia 's reconstruct level data

My process

- use GenMatch from SW 25.3.7

Mingqia's process

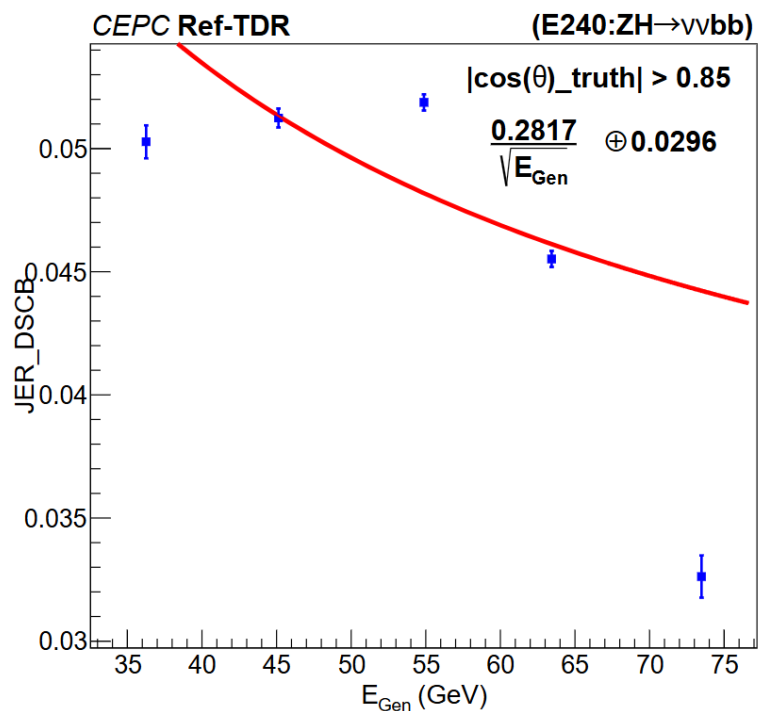
- use MissingET package



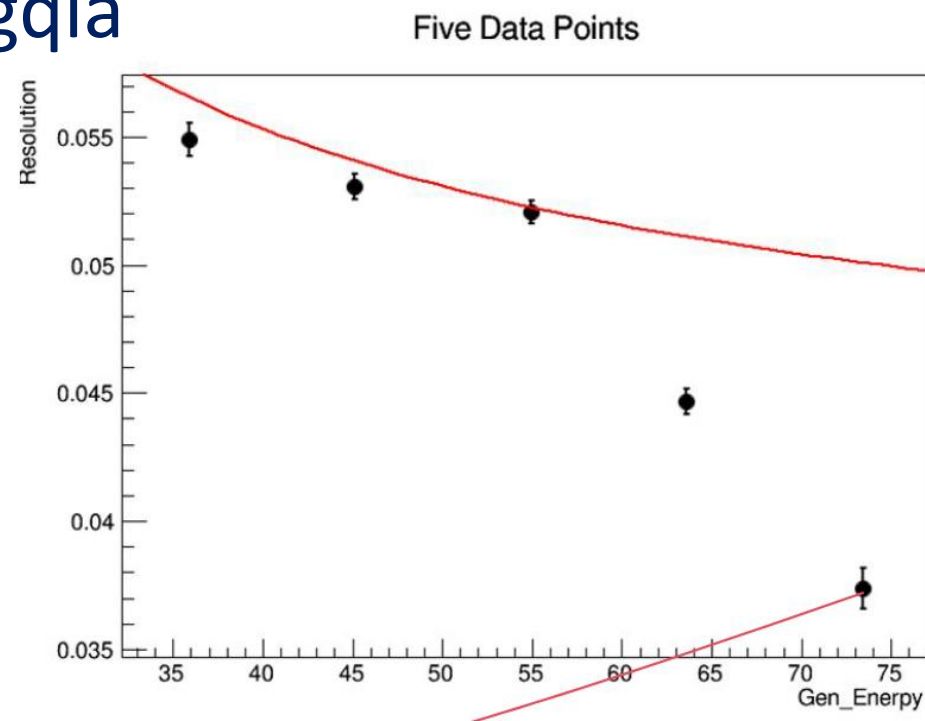
Reproduction of Result

- Result reproduced using Mingqia 's stdhep data

My

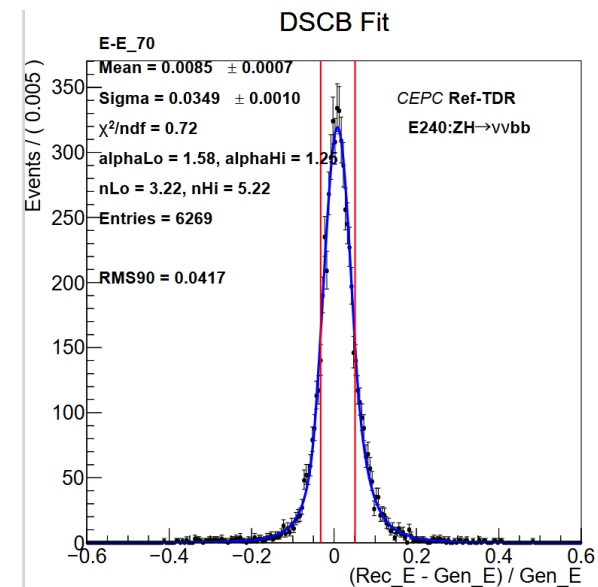
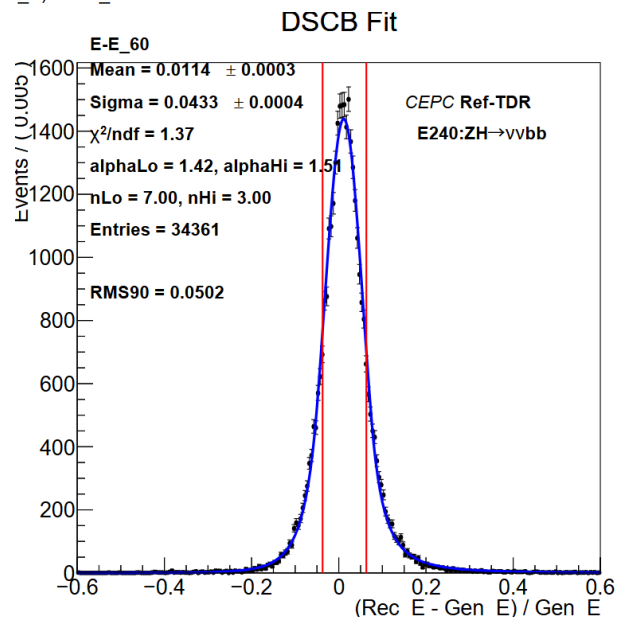
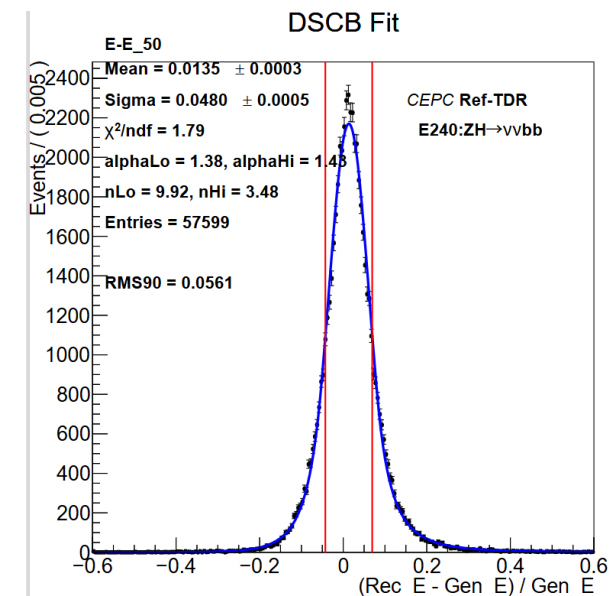
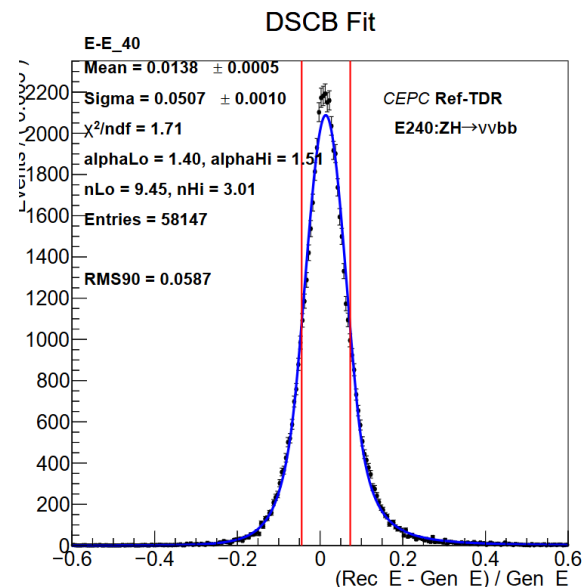
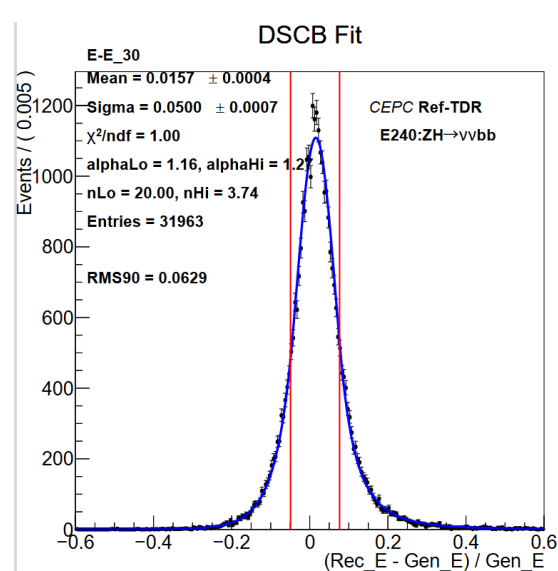


Mingqia

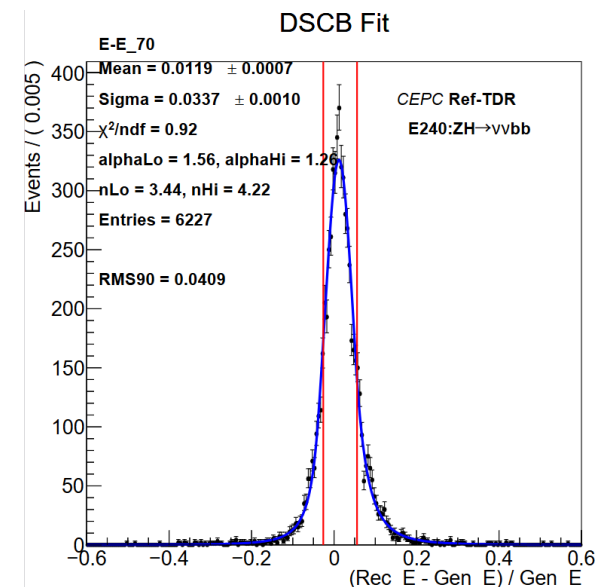
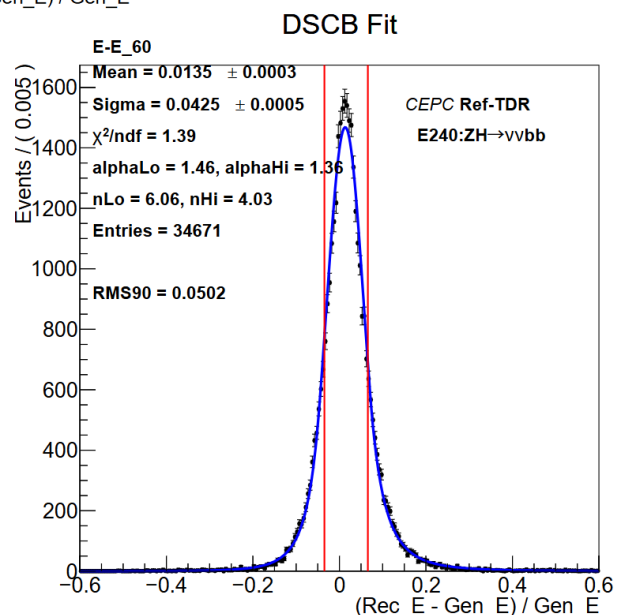
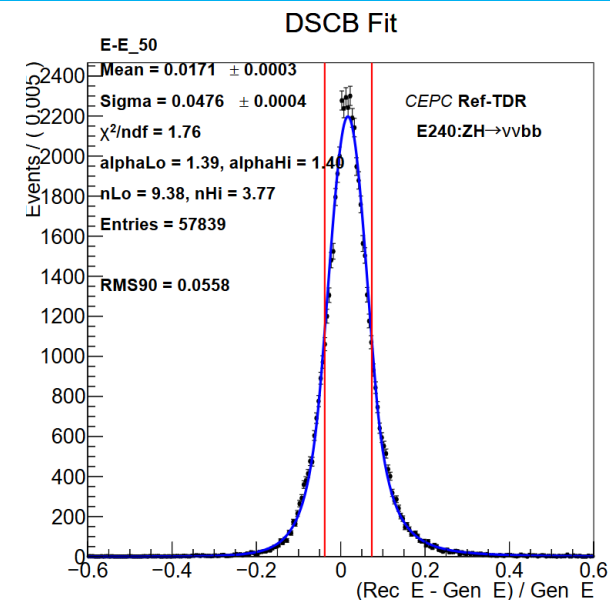
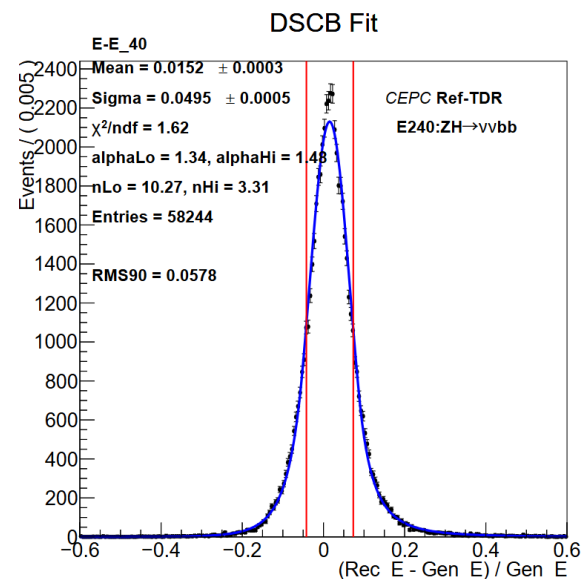
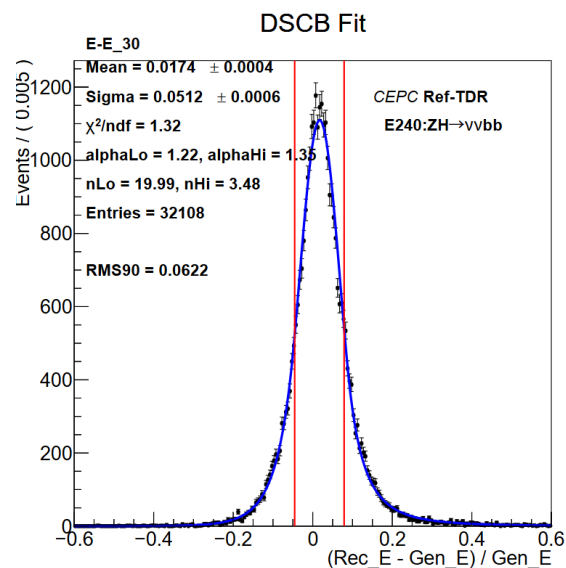


BackUp

Cluster Level Data Fit



Reconstruct Data Fit



Cluster Level Data Fit

