Jet Energy Resolution

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Jet Energy Resolution based on H->bb events

Use whizard1.95 to generate 200000 ee to bb events.
The collision energy is set to 125GeV.
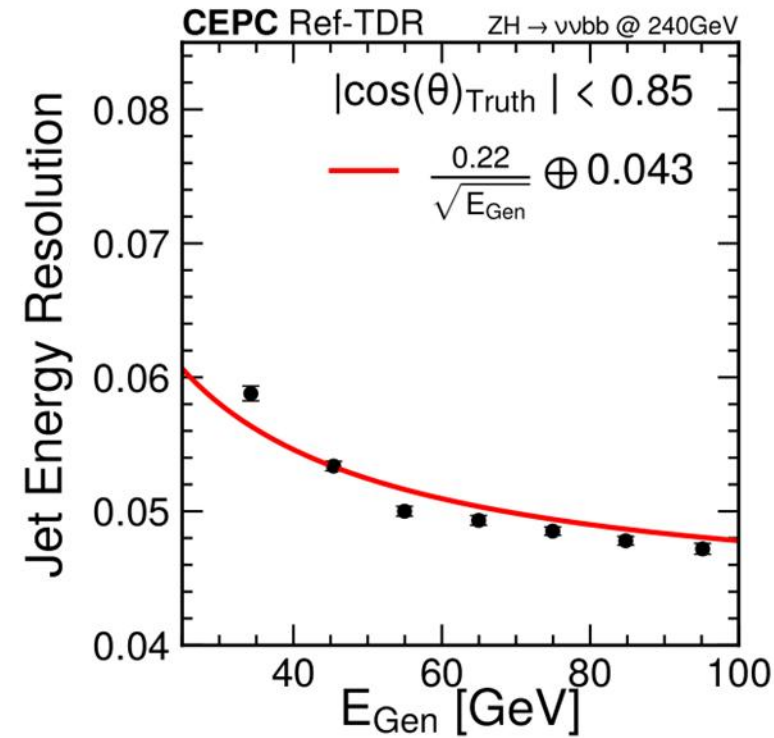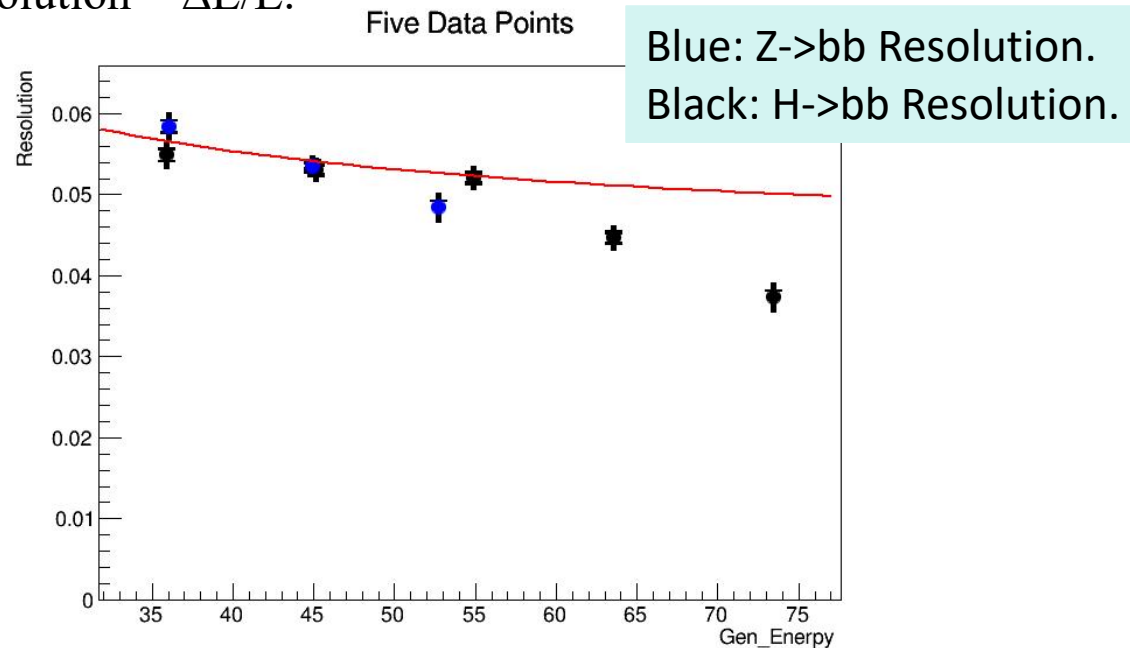Reconstruction by CEPCSW and eekt algorithm.
Jet truth match with ΔR.

Use TwoSidedCB to fit the ΔE.
Resolution is given by sigma.
ΔE= E(RecoJet) – E(GenJet).
Resolution = ΔE/E.

Blue: Z->bb Resolution.
Black: H->bb Resolution.
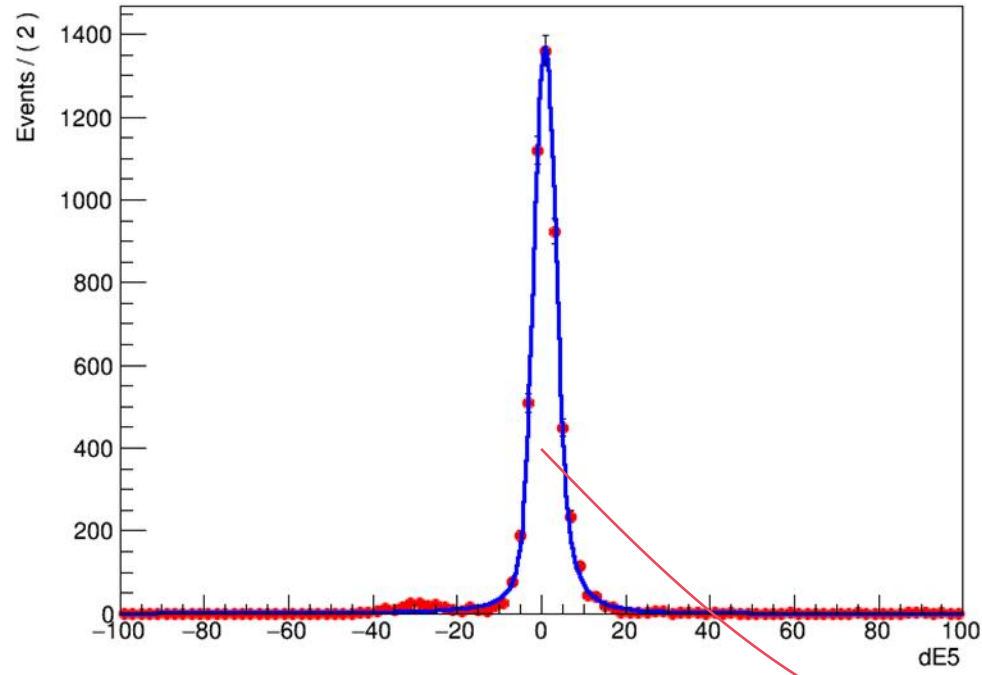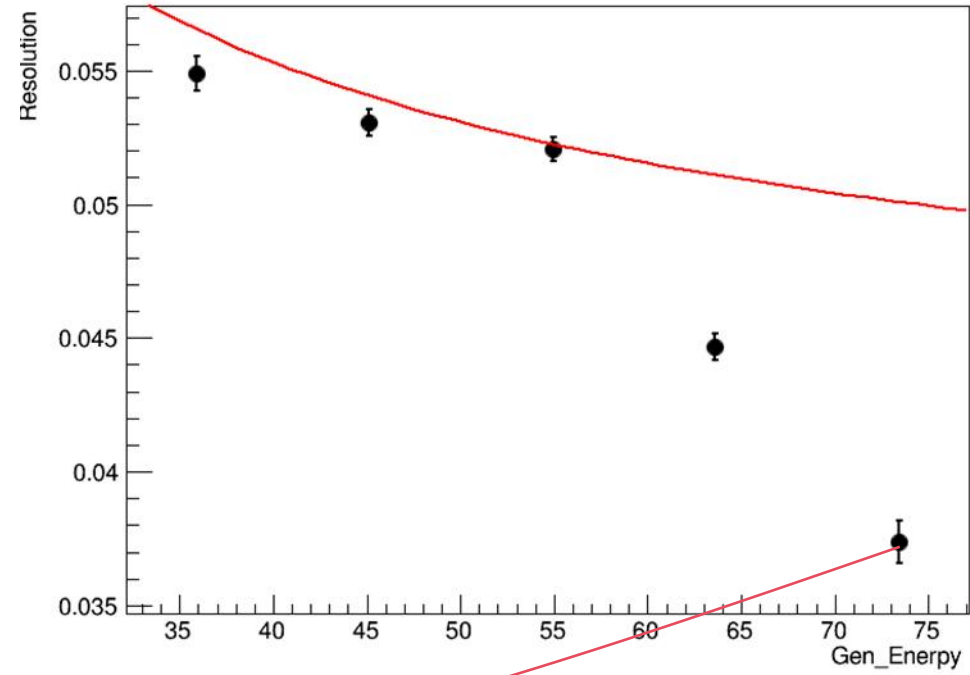
The generator energy 60 to 80GeV region deviate from the resolution given in TDR.

Back up

A RooPlot of "dE5"

Five Data Points

Check the fit result of the point in 70~80GeV region.
The fit shows no significant deviation.