

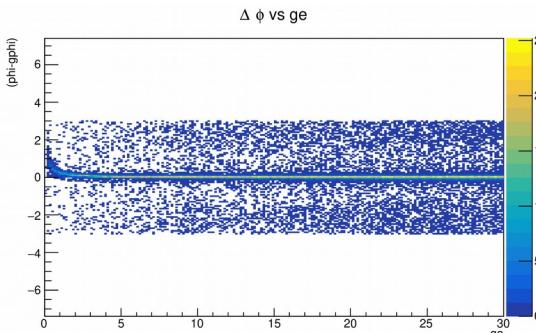
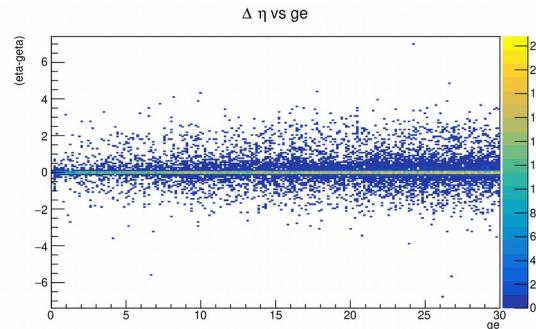
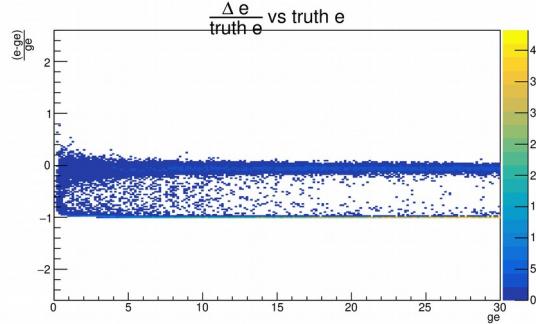
Resolution plots for calorimeters

Simran, Sandeep
Lokesh Kumar
PU, Chandigarh

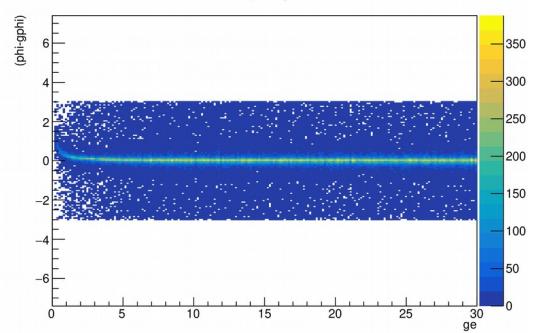
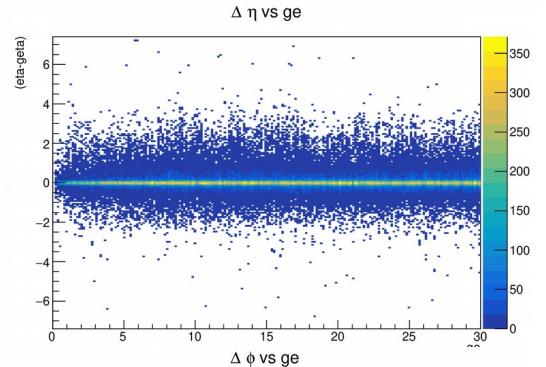
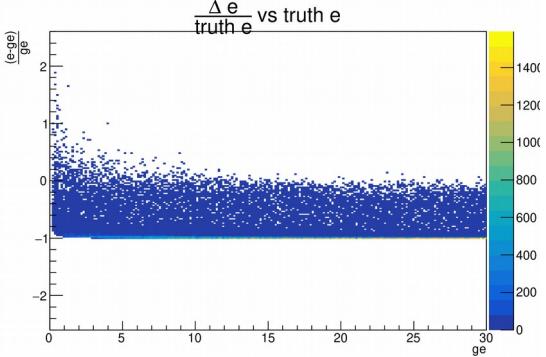
SPECIFICATIONS:

- Particles: e-, pi-, K-
- Momentum range: 0-30 GeV
- Eta range: -4 to 4
- Number of events: 100000

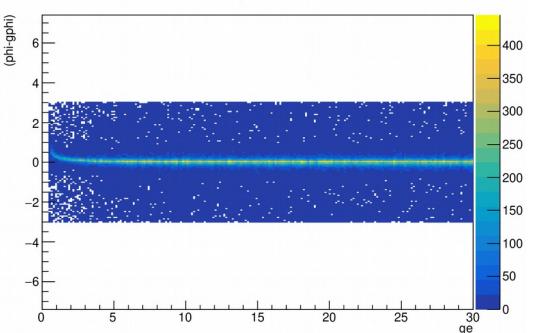
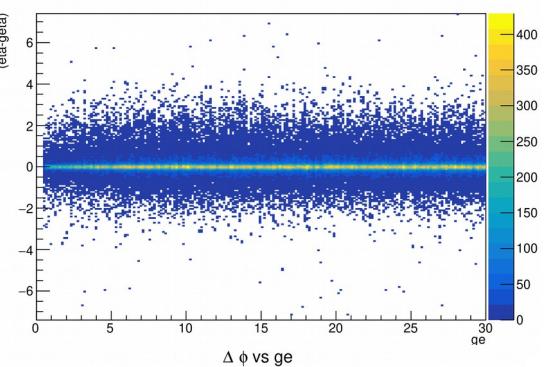
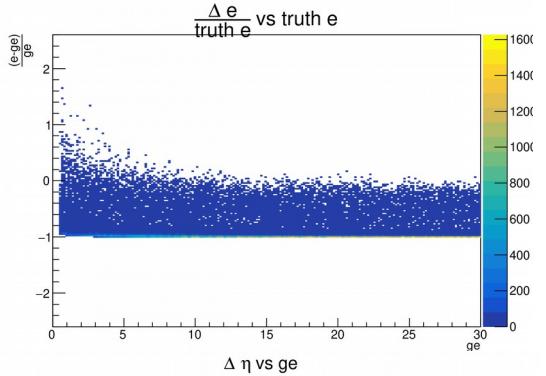
Electron



BARREL: CEMC Pion

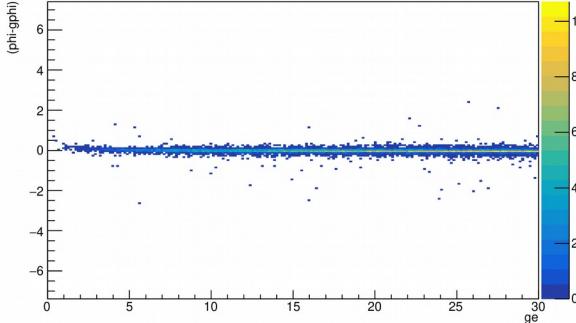
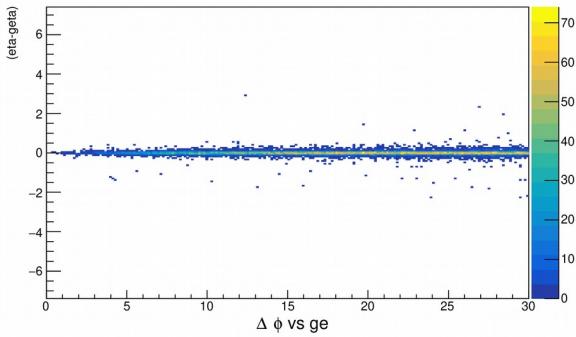
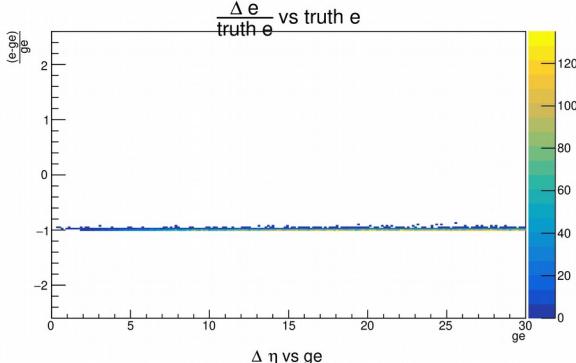


Kaon

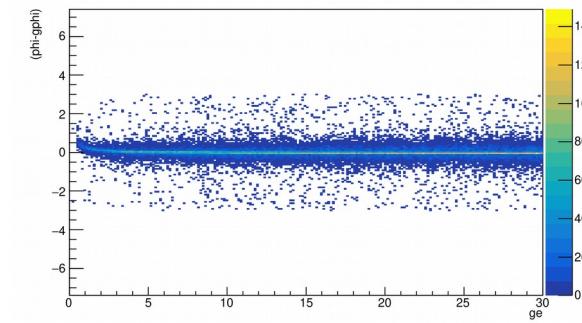
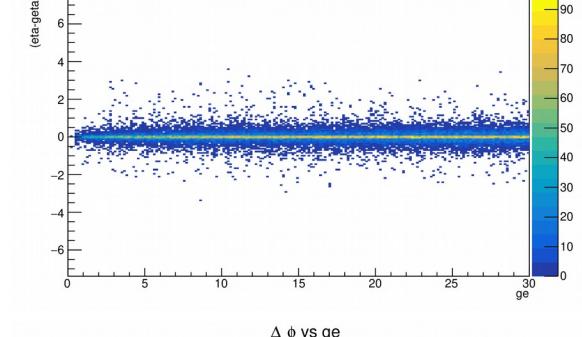
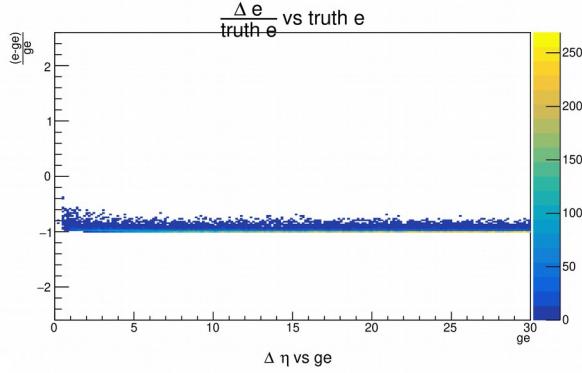


BARREL: HCALIN

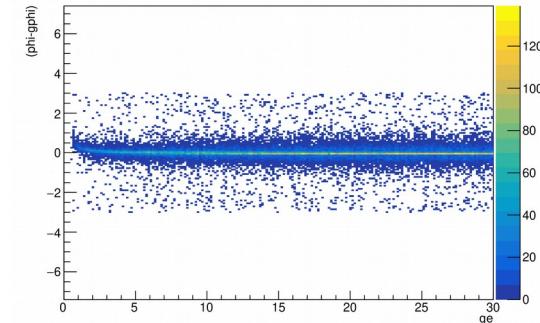
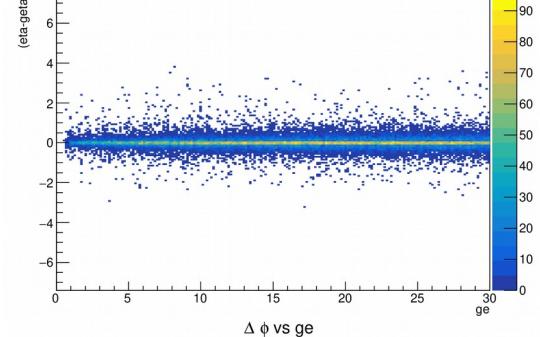
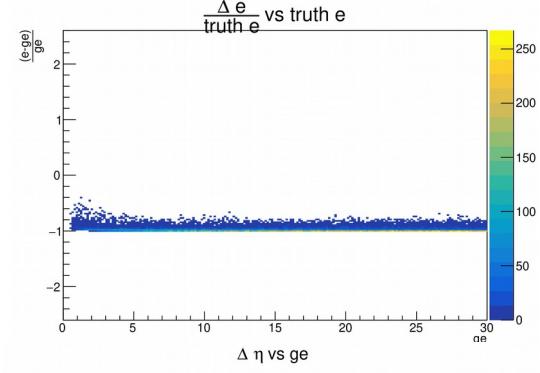
Electron



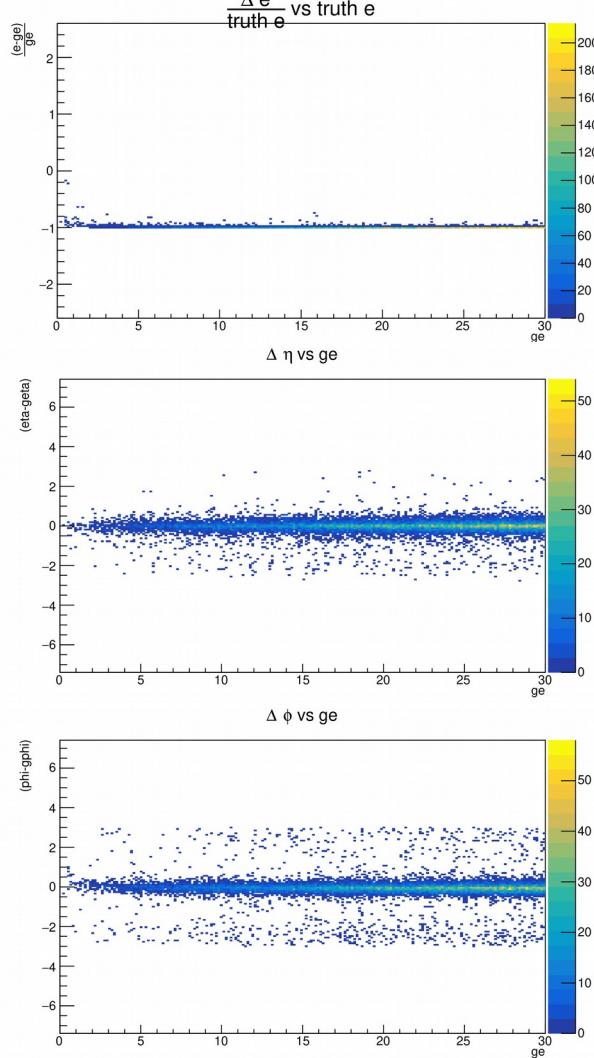
Pion



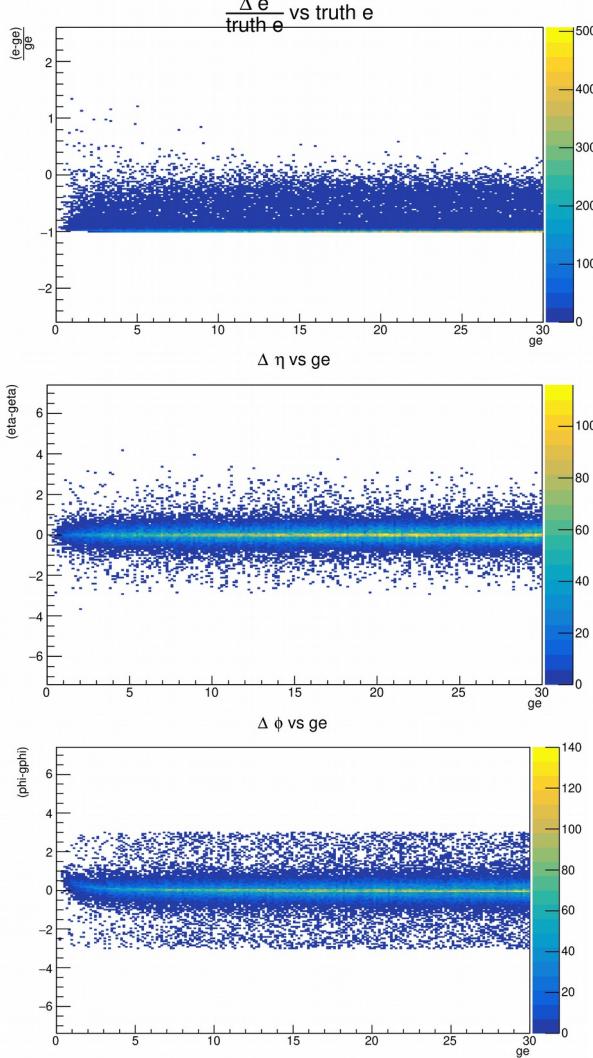
Kaon



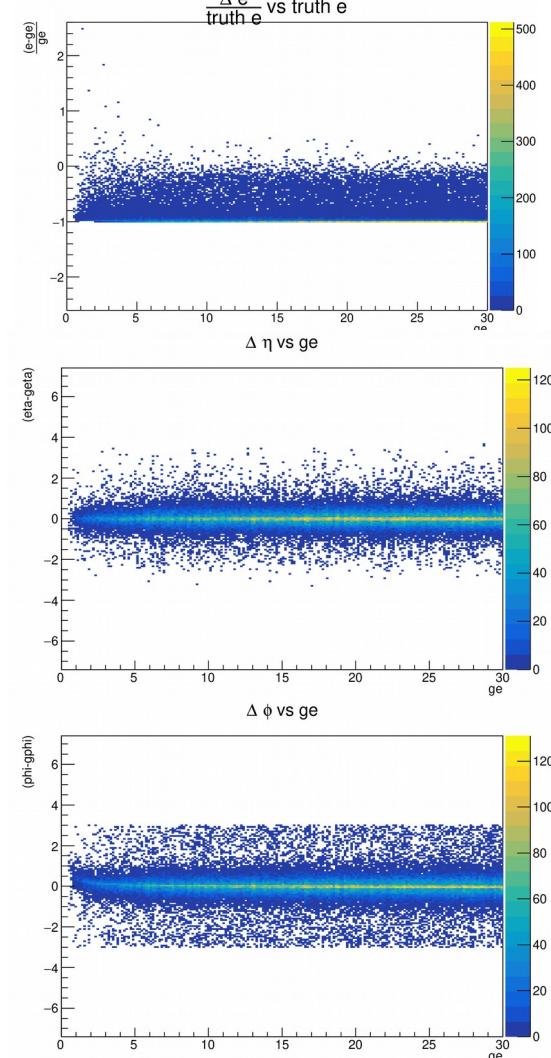
Electron



BARREL: HCALOUT Pion



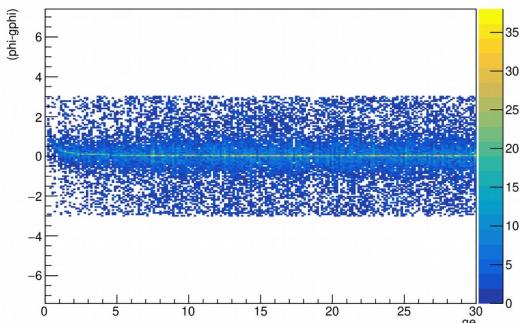
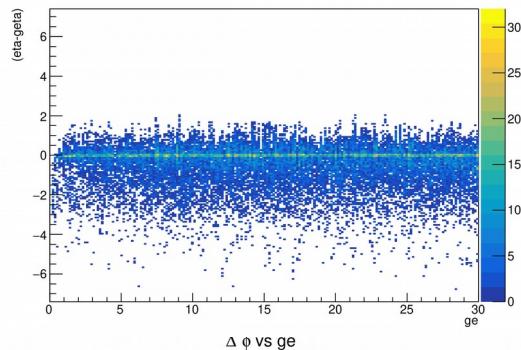
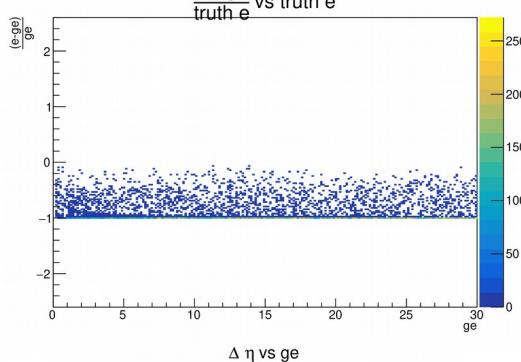
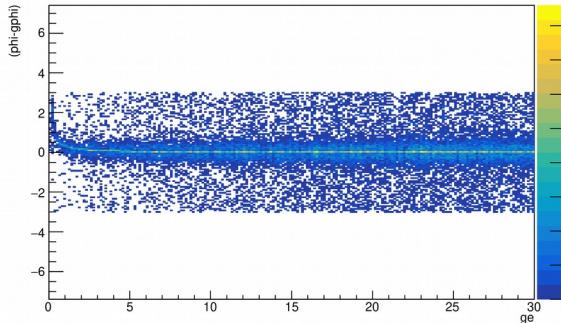
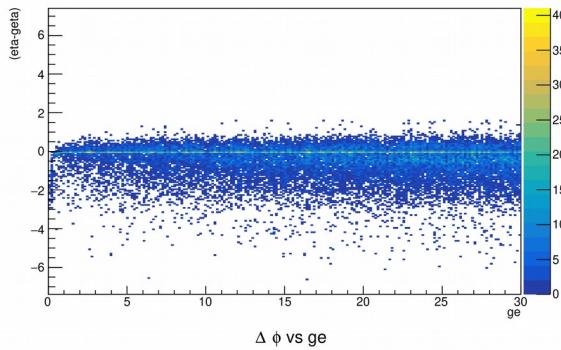
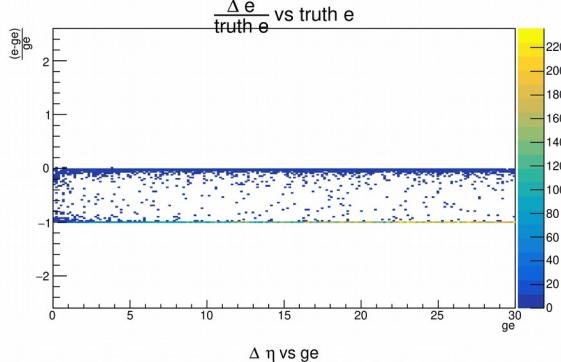
Kaon



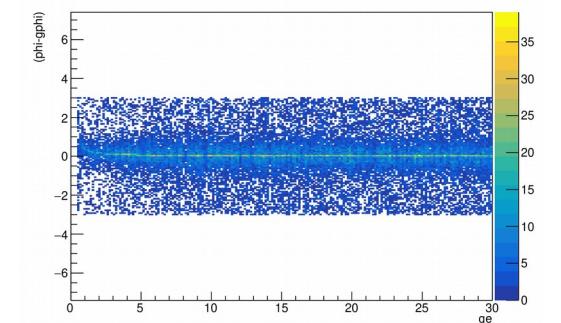
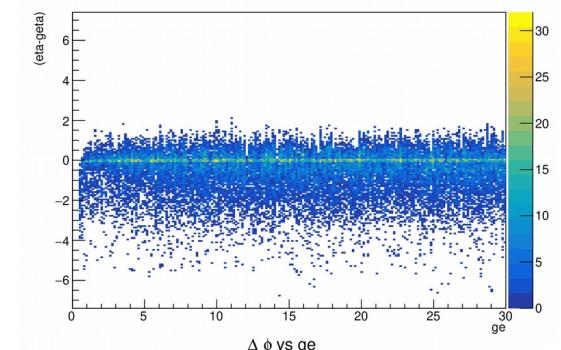
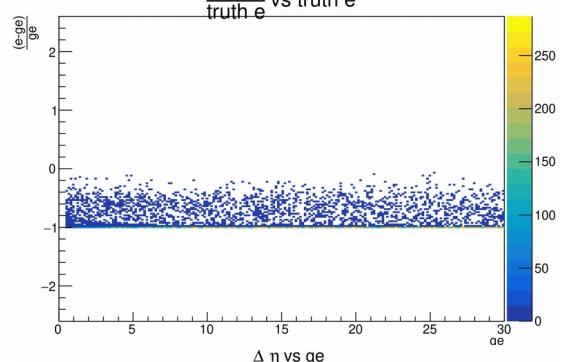
FORWARD: EEMC

Pion

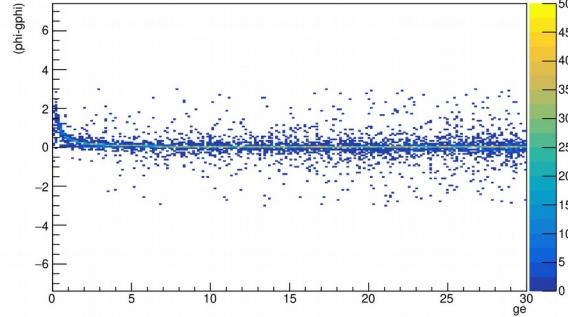
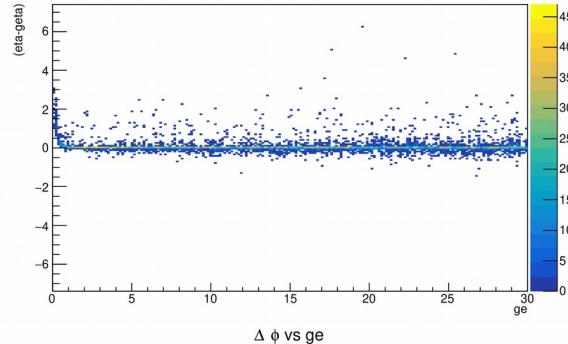
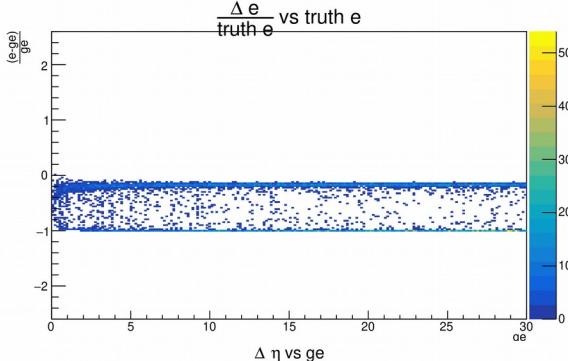
Electron



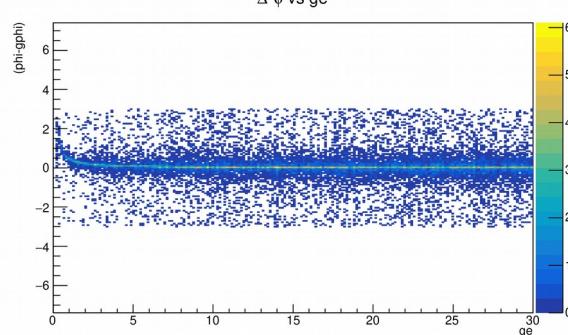
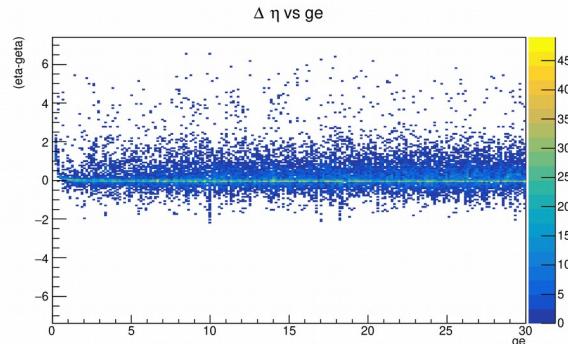
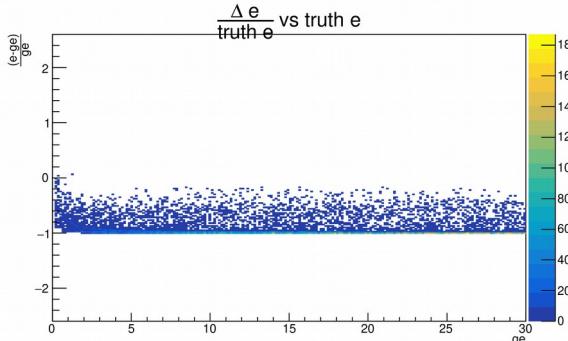
Kaon



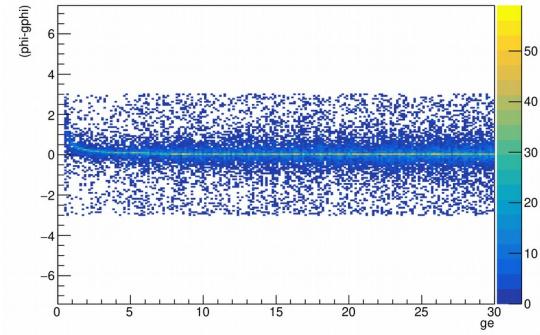
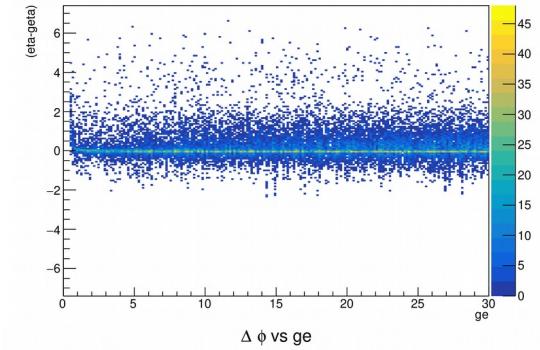
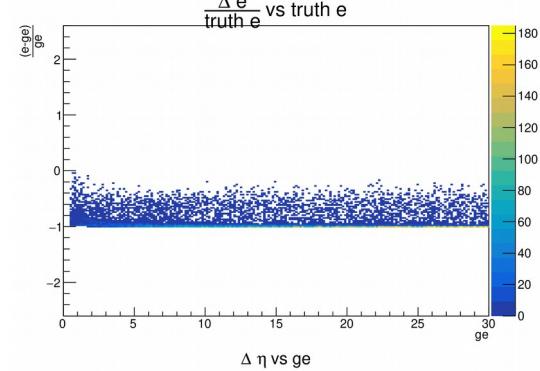
Electron



FORWARD: FEMC Pion



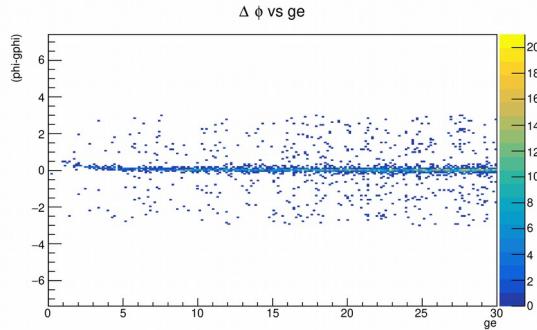
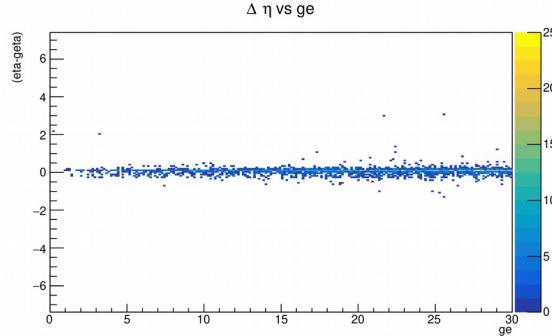
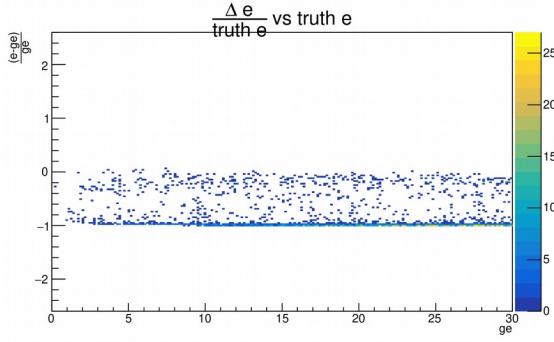
Kaon



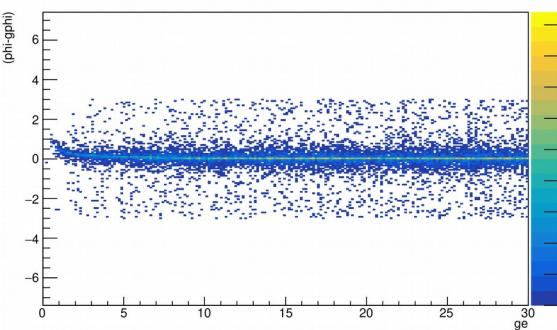
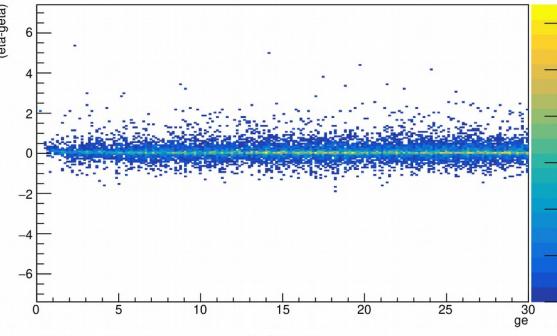
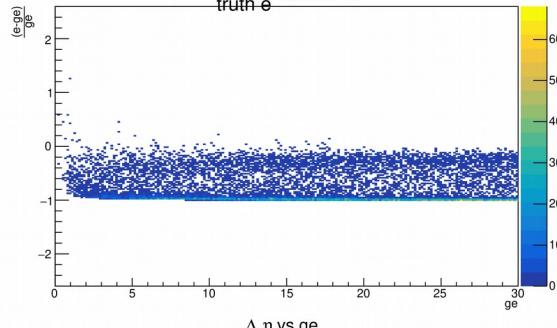
FORWARD: FHCAL

Pion

Electron

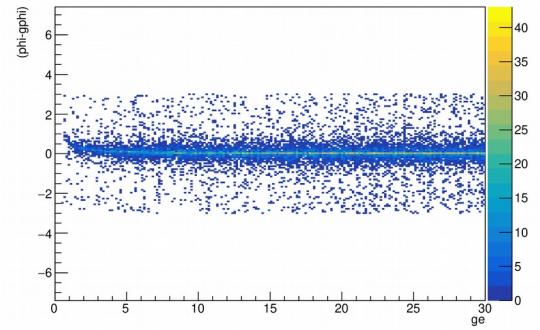
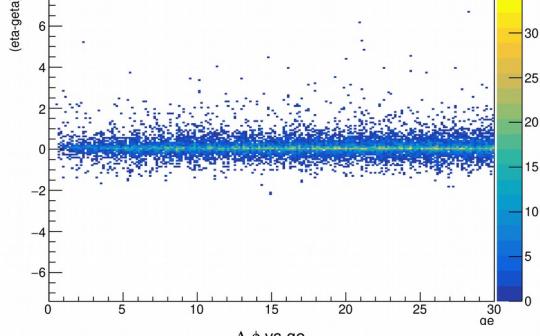
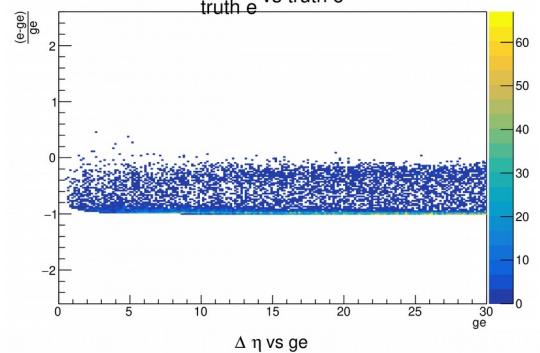


$\frac{\Delta e}{\text{truth } e}$ vs $\text{truth } e$



Kaon

$\frac{\Delta e}{\text{truth } e}$ vs $\text{truth } e$



Tree containing the various plots

- Following tree contains all the plots for calorimeters. They can be found at following locations:

*gpfs02/eic/simrankaur/Electron/
resolution_plots_ "calorimeter name".root
gpfs02/eic/simrankaur/Pion/
resolution_plots_ "calorimeter name".root
gpfs02/eic/simrankaur/Kaon/
resolution_plots_ "calorimeter name".root*

- The macro used to make these plots can also be found in the above directories by name of res.C.

