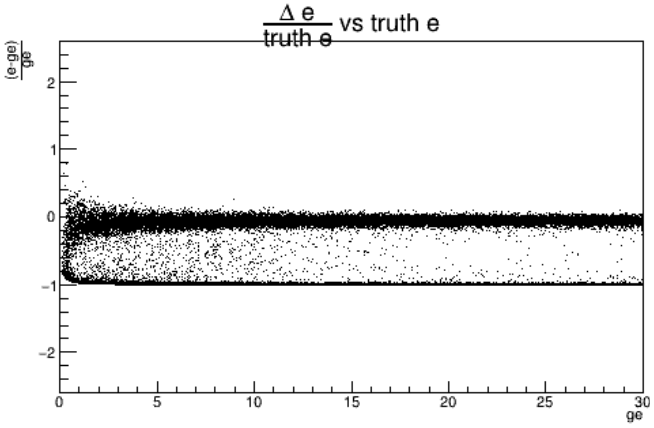
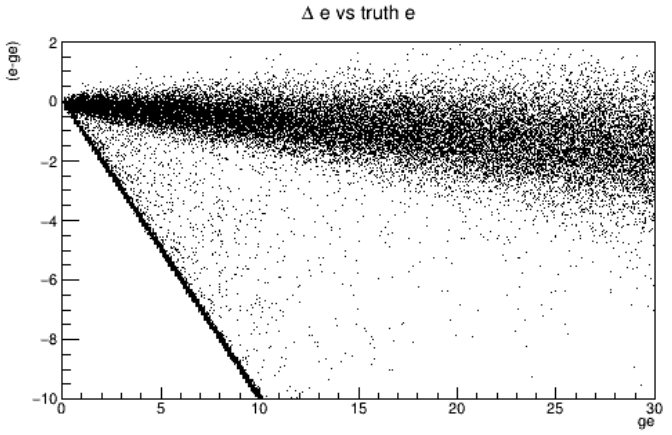
200MeV cut on reconstructed energy for electron (Before and after plots)

Simran, Sandeep
Lokesh Kumar
PU, Chandigarh

CEMC


Δ e / truth e vs truth e
(e-ge)/ge
ge


Δ e vs truth e
(e-ge)
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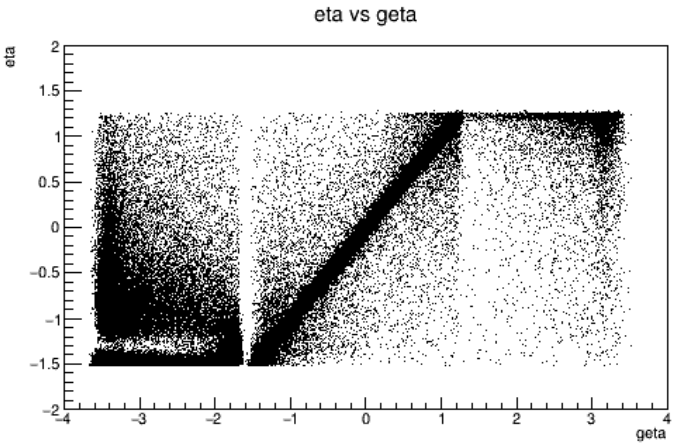
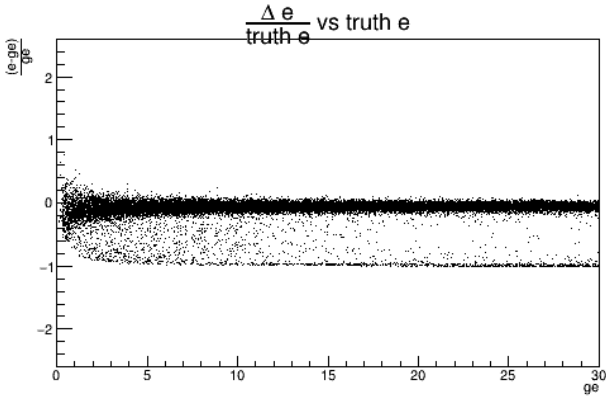

eta vs geta
eta
geta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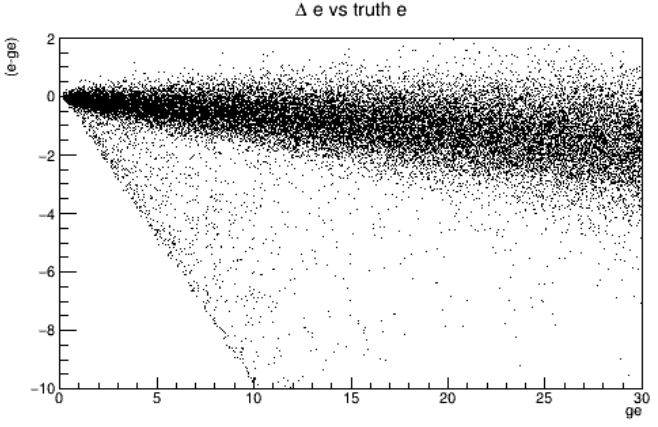
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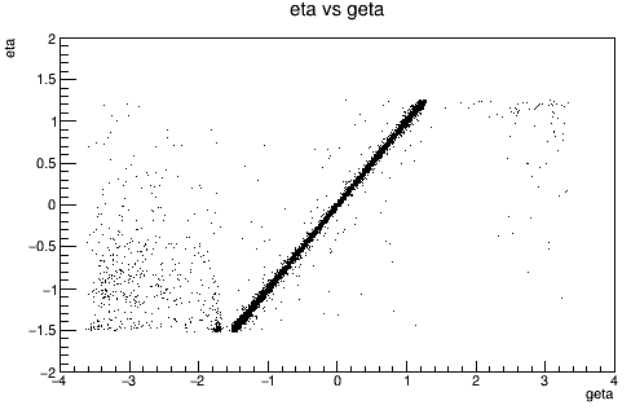
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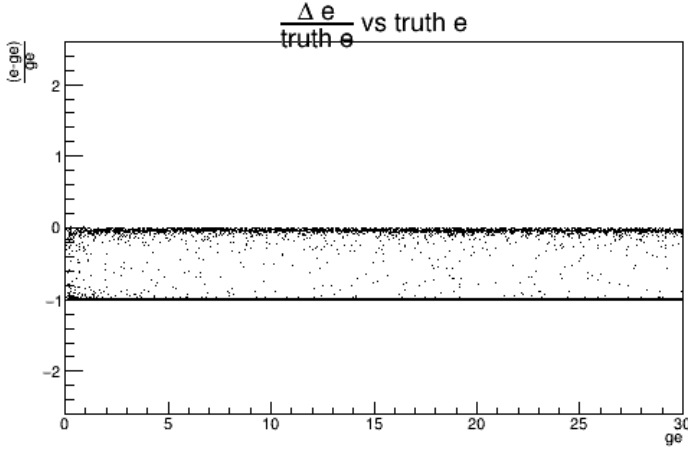
EEMC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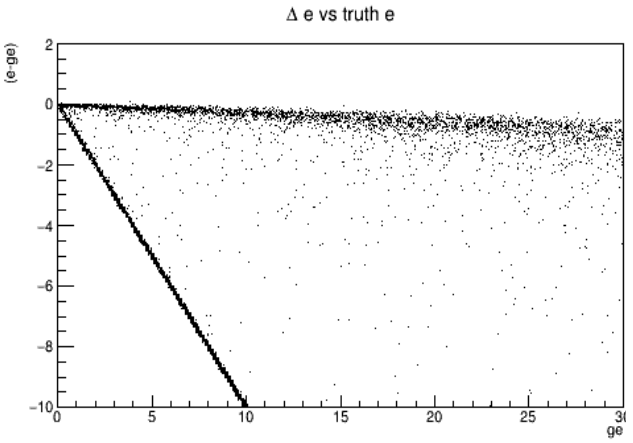
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(e-ge)
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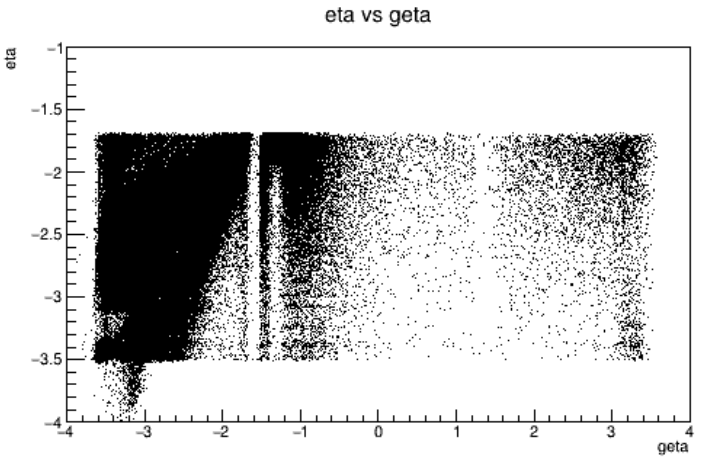
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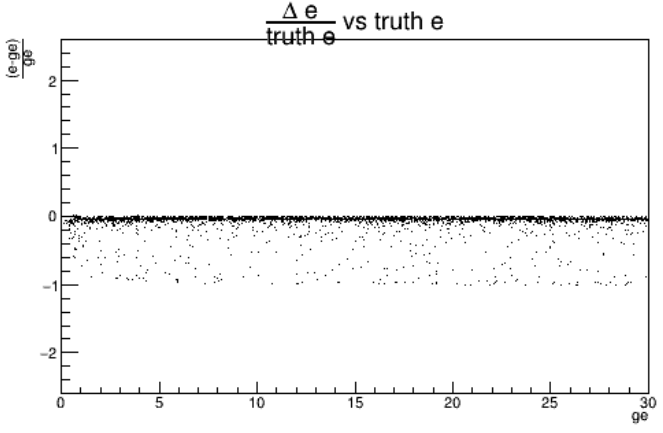
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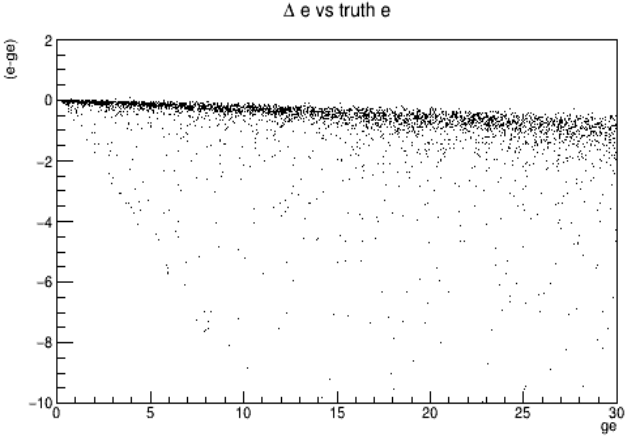
Δ e vs truth e
(e-ge)
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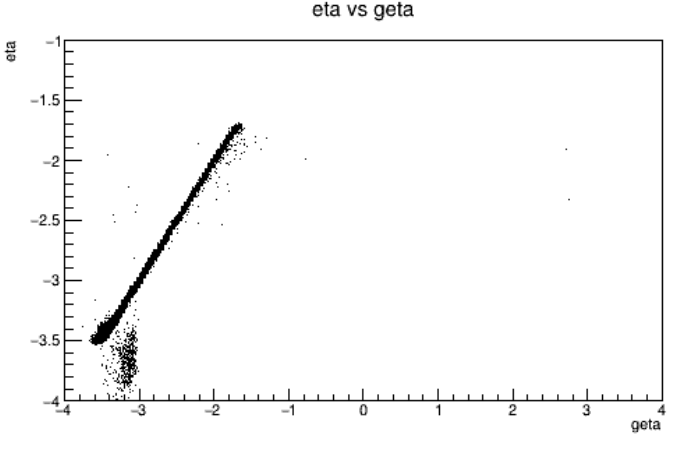
eta vs geta
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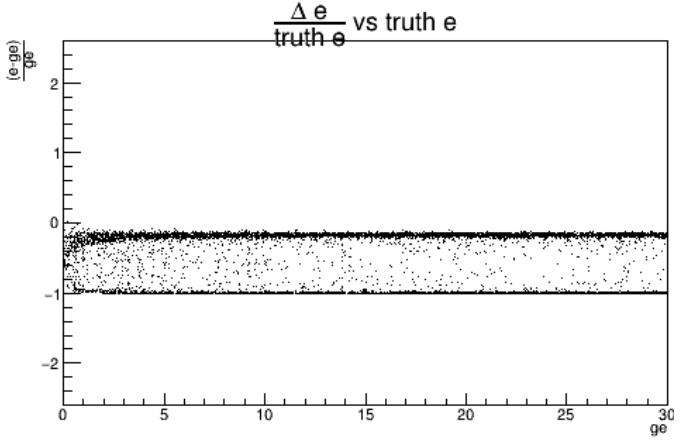
geta

FEMC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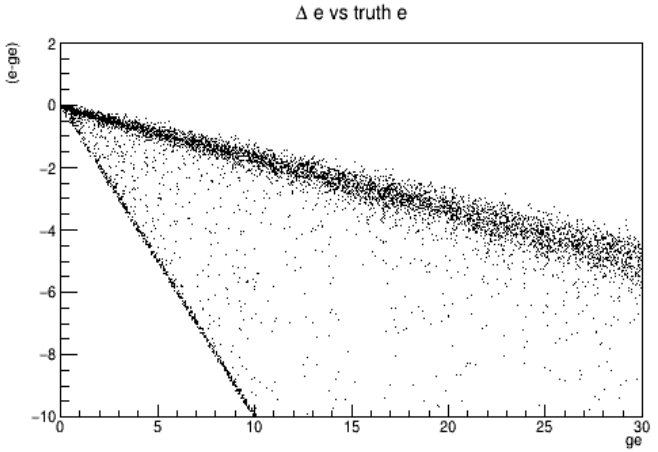
(e-ge)/ge
ge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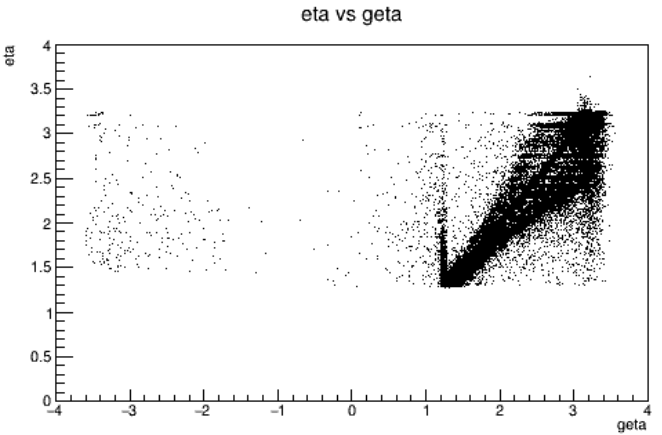
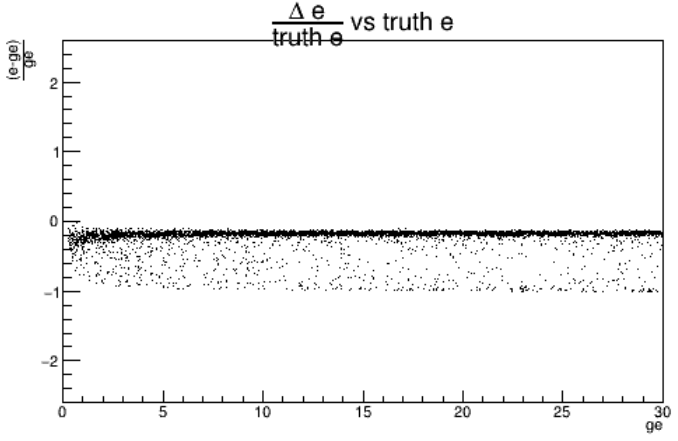

eta vs geta
eta
geta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(e-ge)/ge
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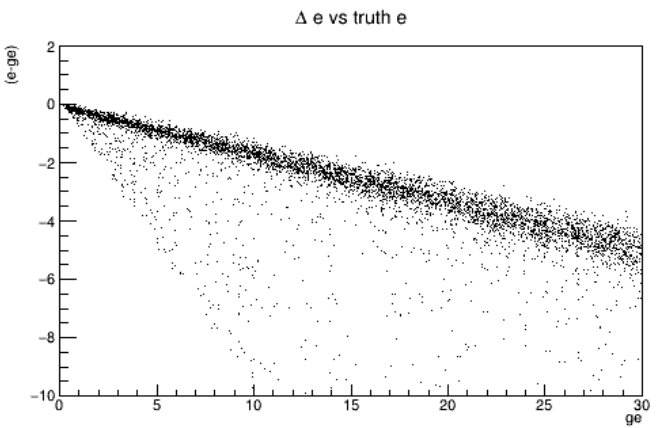
Δ e vs truth e
(e-ge)
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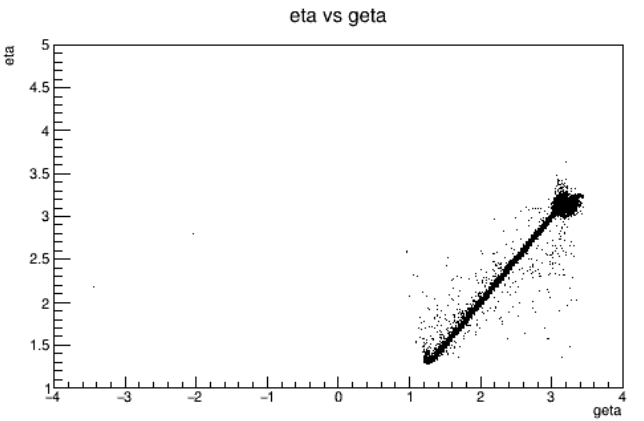
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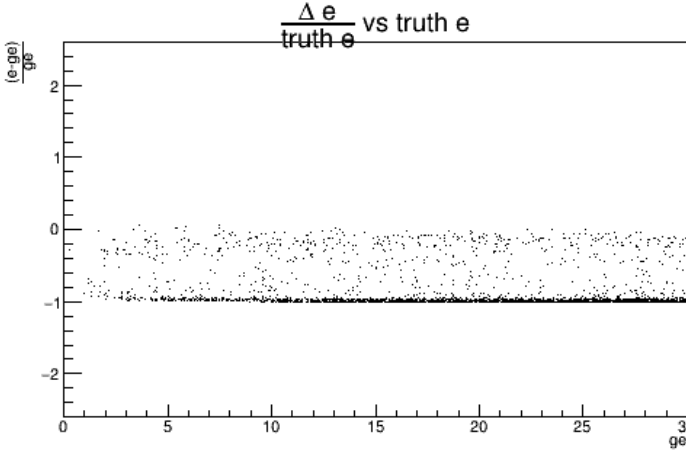
eta
geta

FHCAL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(e-ge)/ge
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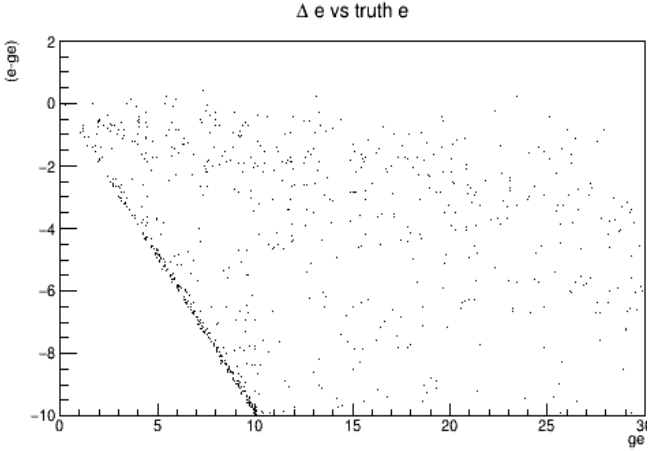
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(e-ge)
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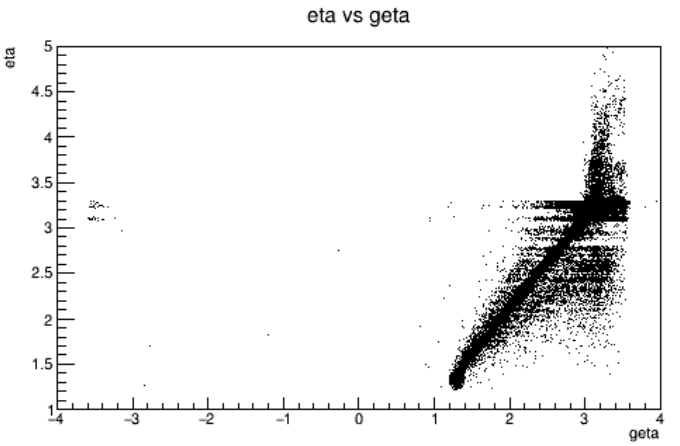
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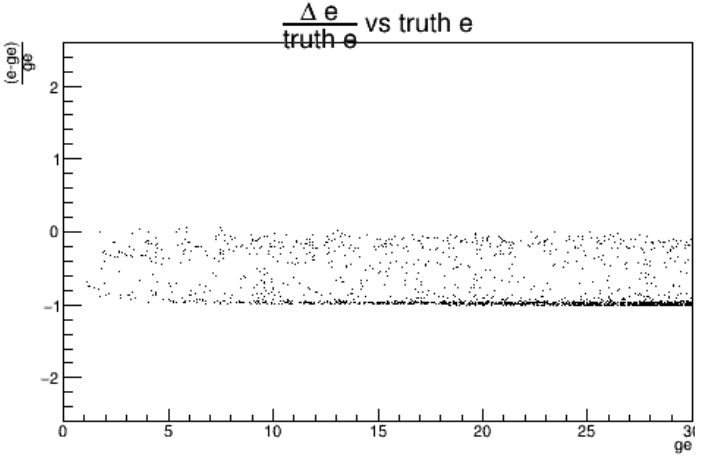
Δ e / truth e vs truth e
(e-ge)/ge
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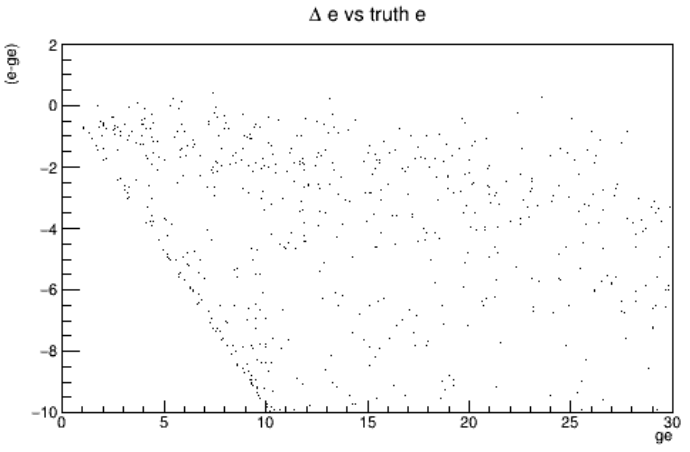
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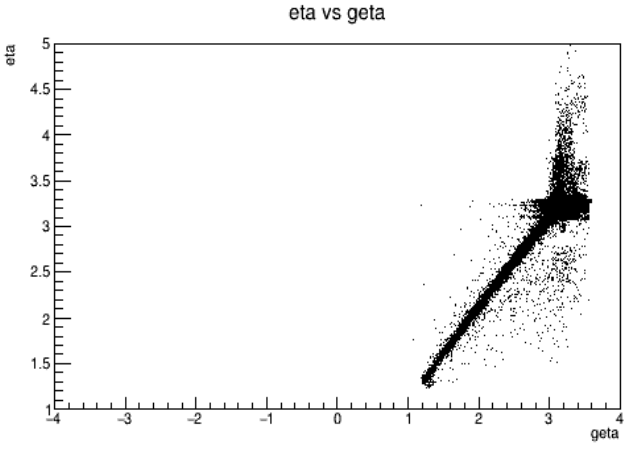
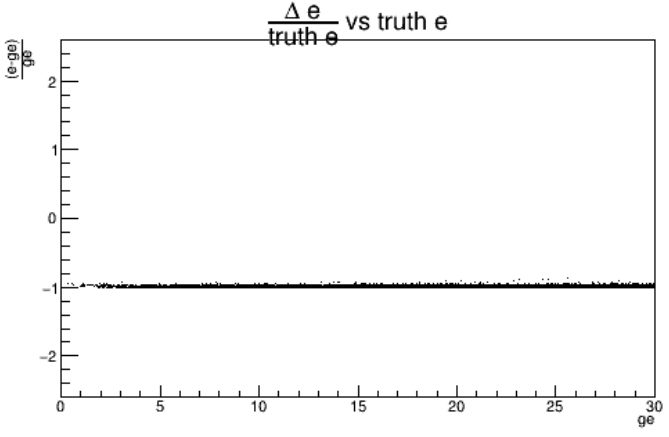

eta vs geta
eta
geta

HCALIN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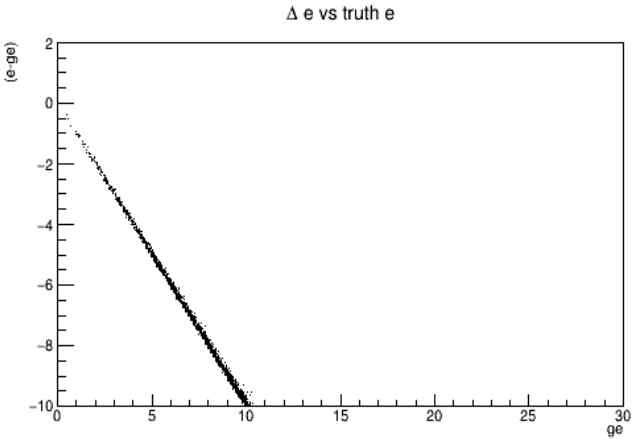
Δ e vs truth e
(e-ge)
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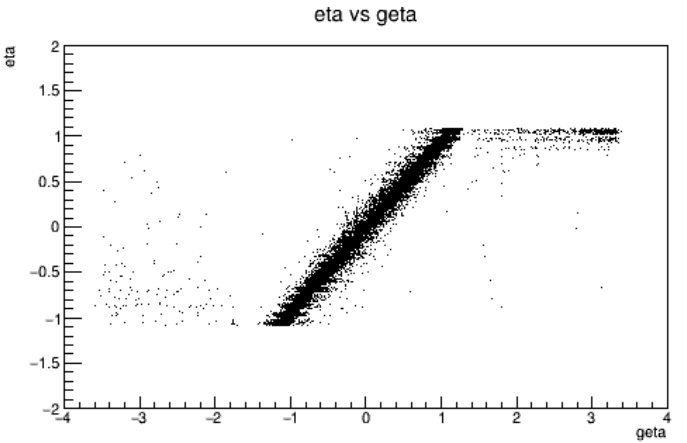
eta vs geta
eta
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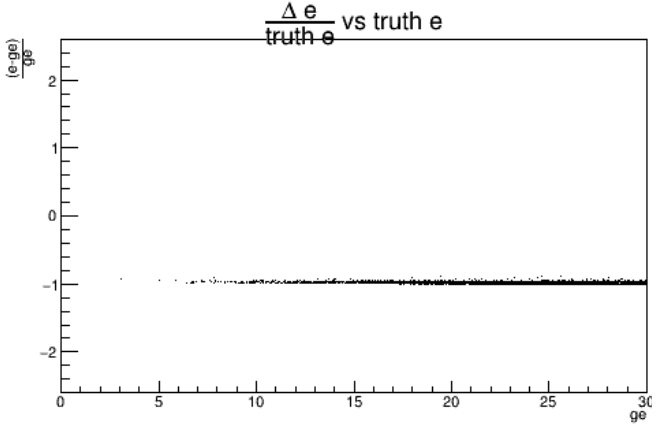
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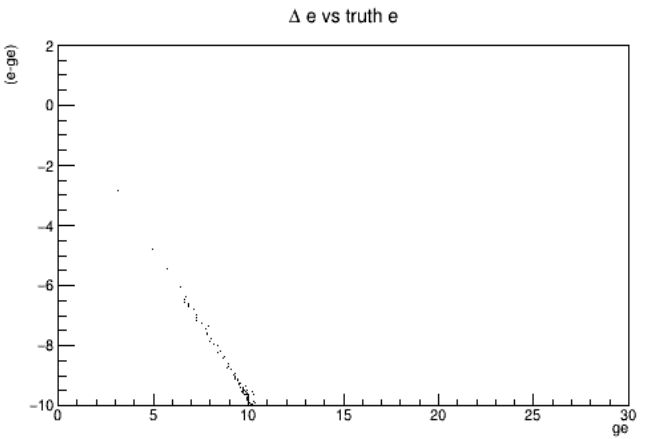
Δ e vs truth e
(e-ge)
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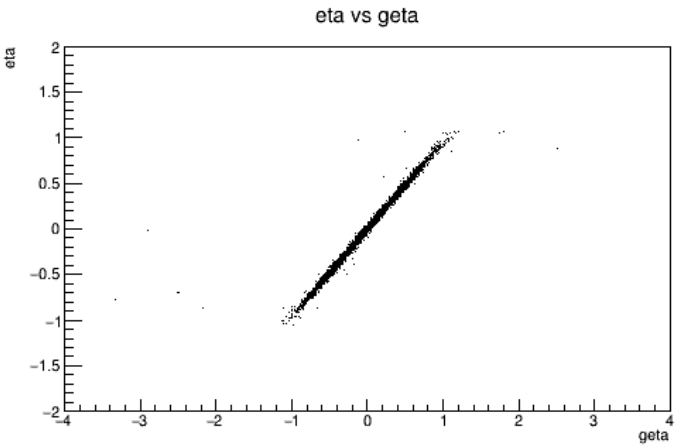
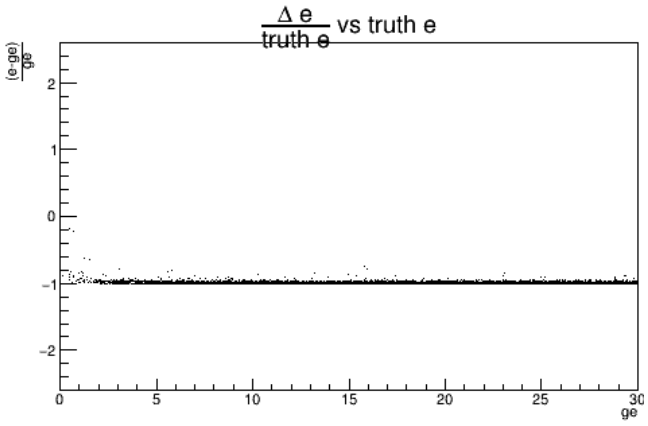

eta vs geta
eta
geta

HCALOUT


Δ e / truth e vs truth e
(e-ge)/ge
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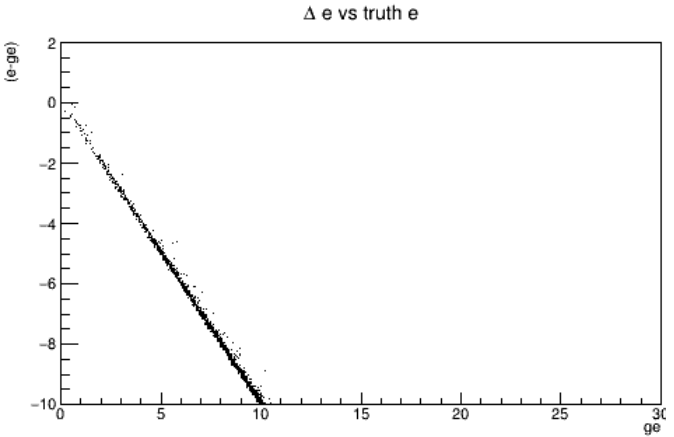
Δ e vs truth e
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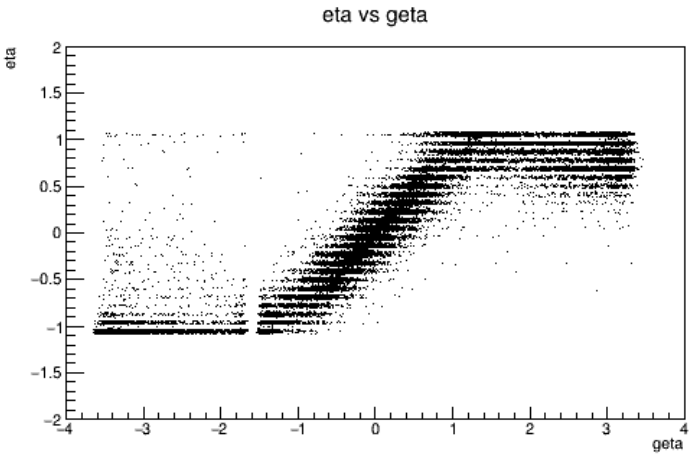
eta vs geta
eta
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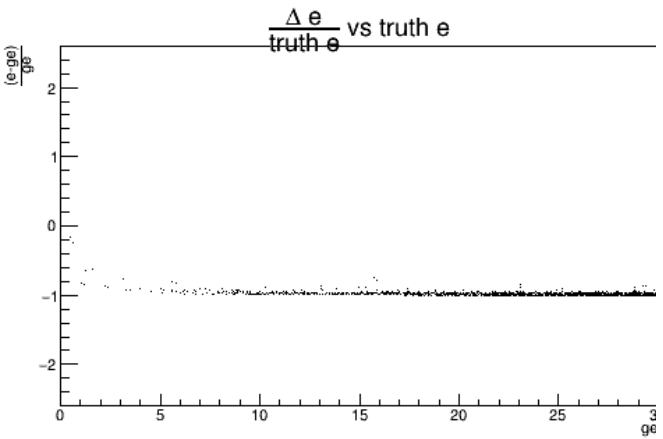
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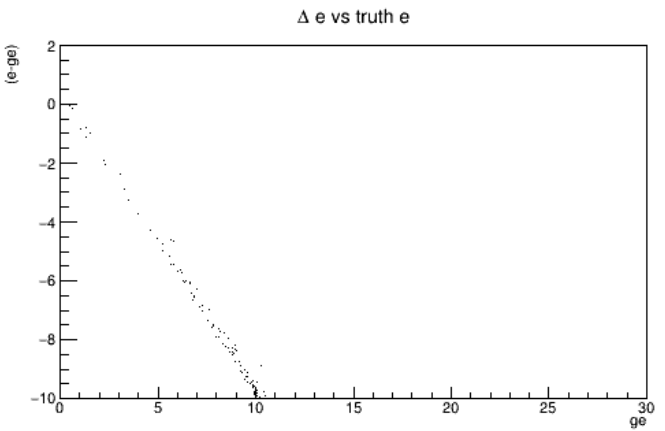
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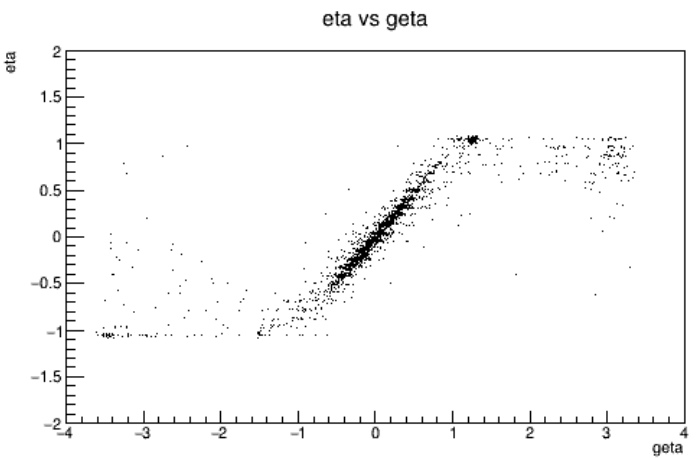
eta vs geta
eta
geta

Conclusions:

- 200MeV cut seems to remove majority of unwanted points, giving linear relation in the eta vs geta plots.
- The cut seems to work fine for EMCs but in case of HCALs, the cut removes points which might have been important for HCALs.