3 Layer PID study
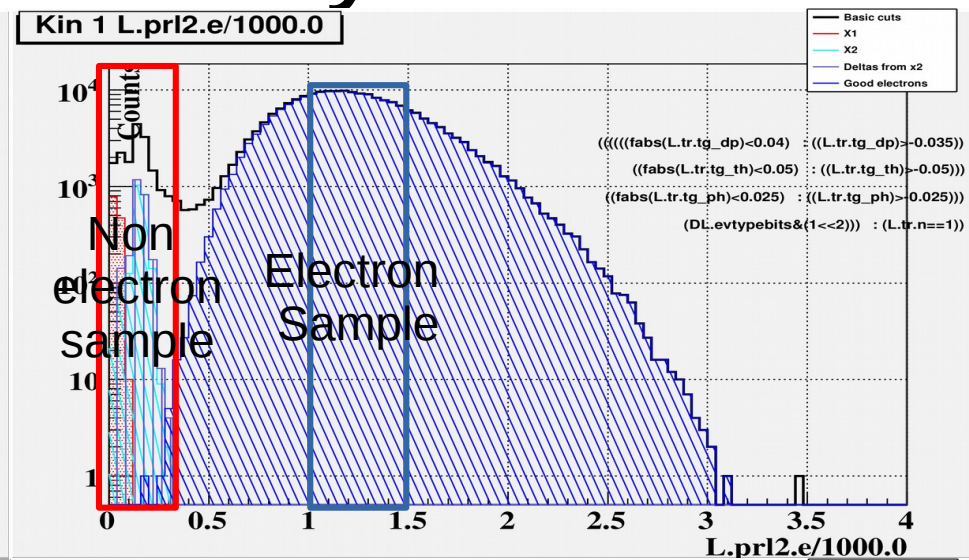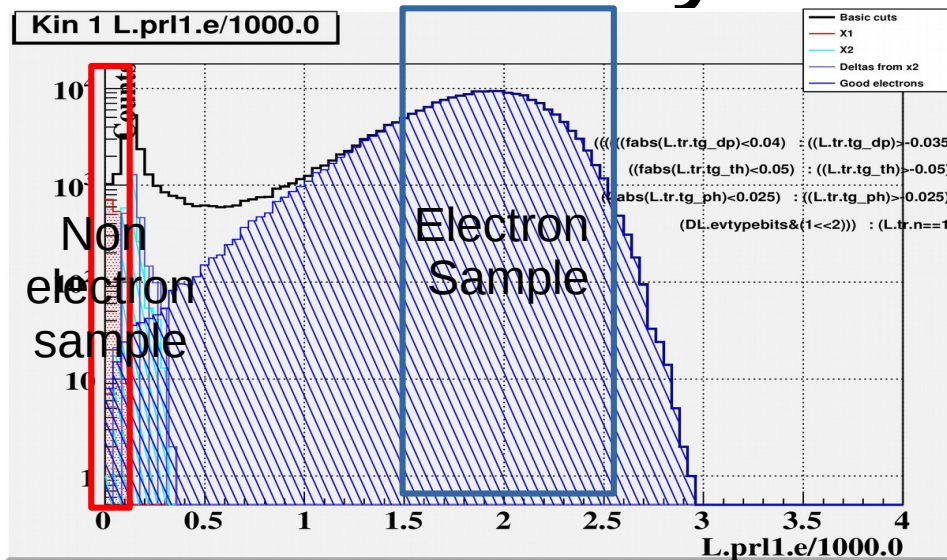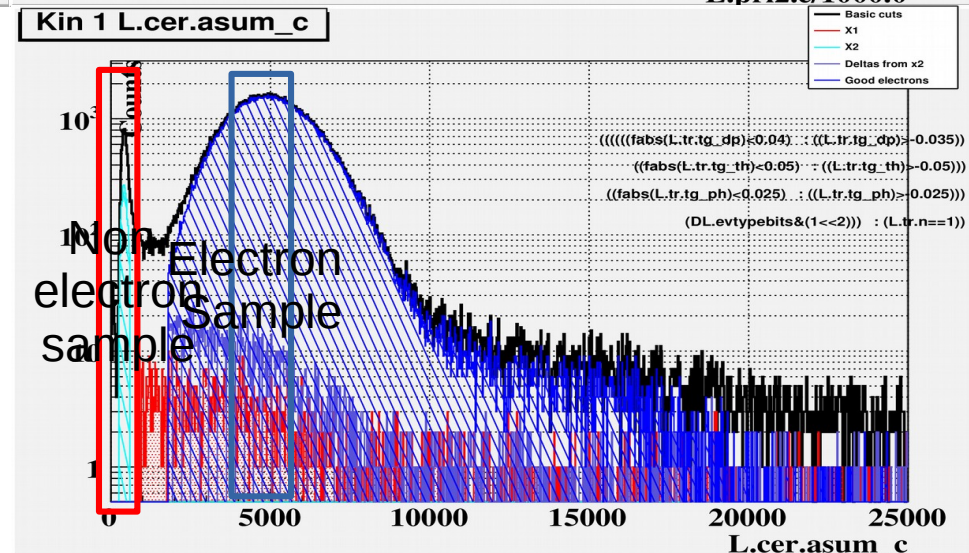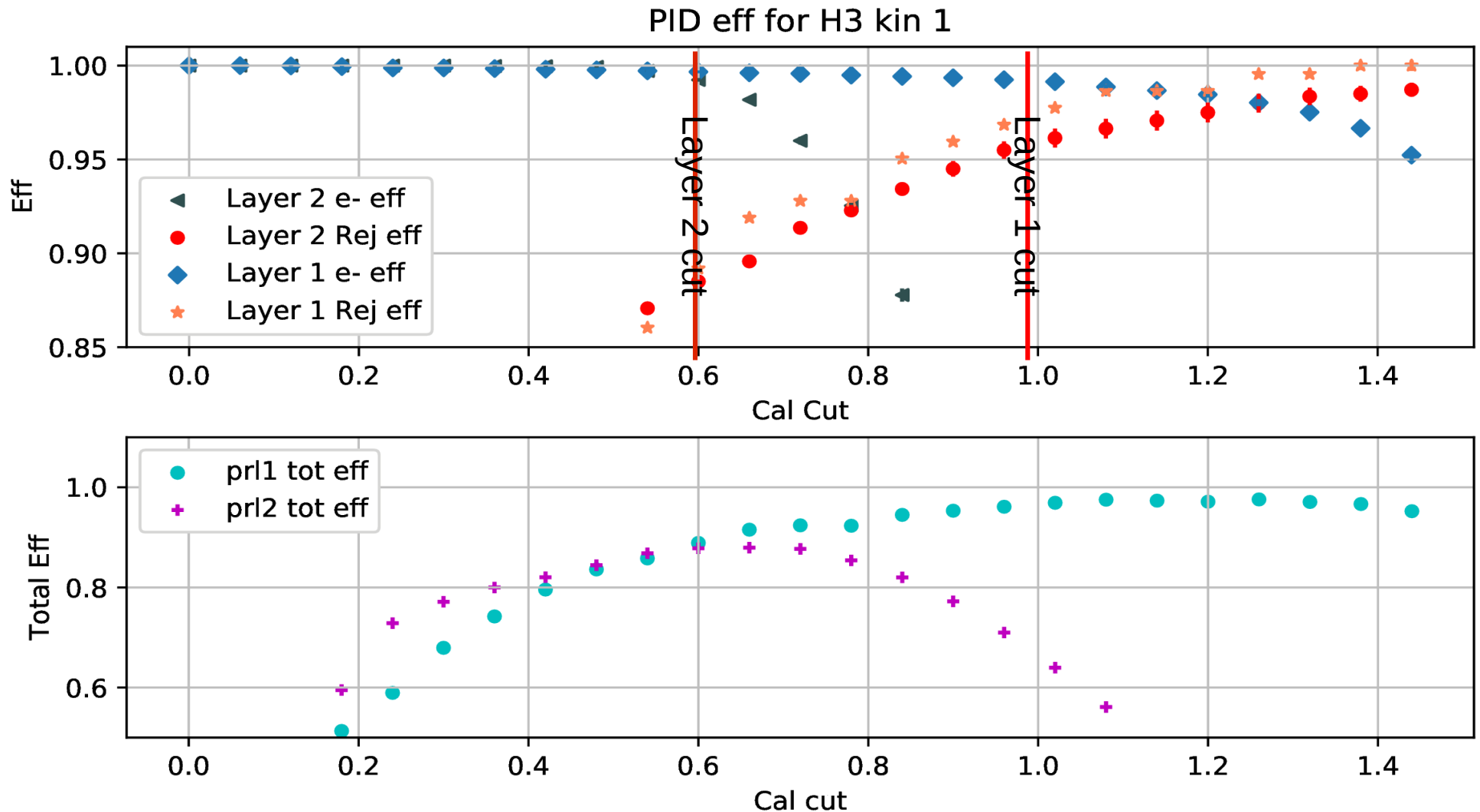

- Layer 1 e sample 1.5-2.5
  - Not e <0.1
- Layer 2 e sample 1-1.5
  - Not e <0.3
- Cer e sample 4500-5500
  - Not e < 800
- Cuts included: Acc: dp,th,ph
  - Beta cut & trigger cut

Where to put the new PID cuts, in the separate layers.

$$\frac{\text{electrons(pass layer cut and sample cut)}}{\text{electrons(pass sample cut)}}$$

PID eff for H3 kin 1

Layer 1 → 1.0 (99% ele eff , 96-97% non ele rejection eff)

Layer 2 → 0.6 (99% ele eff , 89% non ele rejection eff)

2

PID Eff!!