

Status of neutral reconstruction in test detector sidloi3

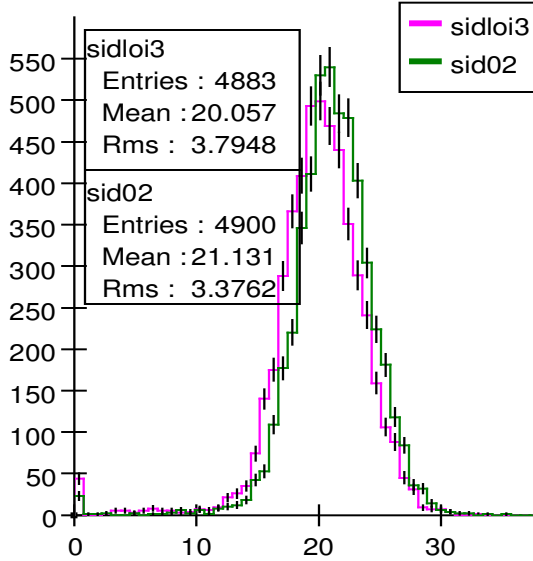
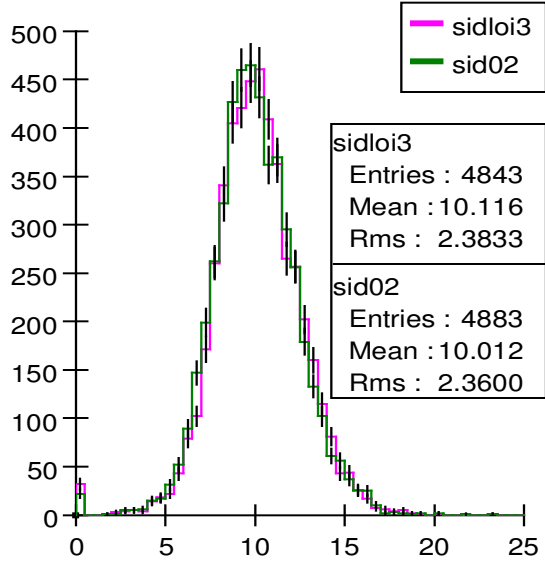
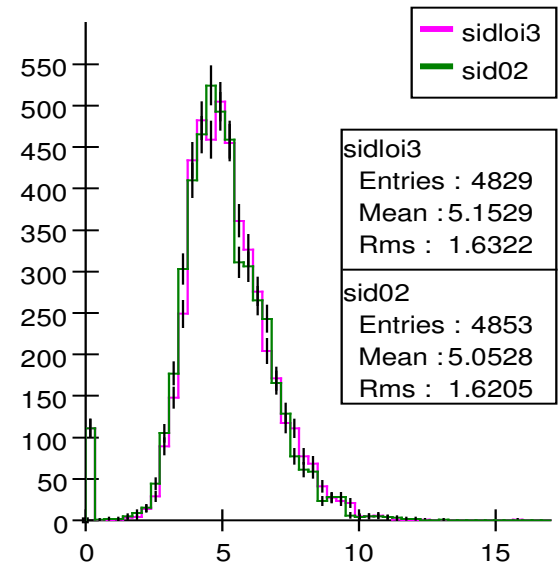
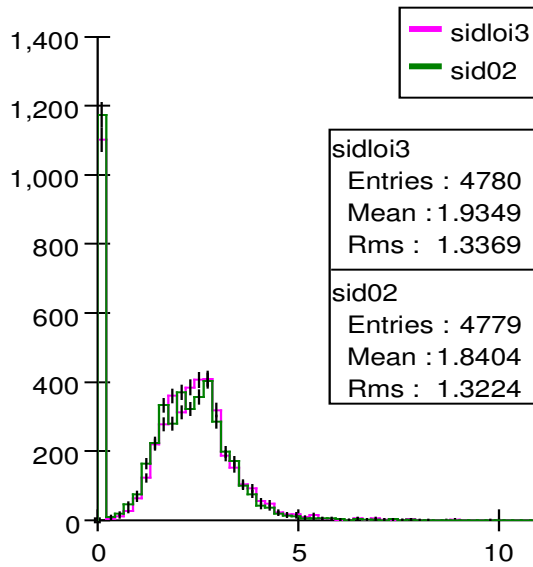
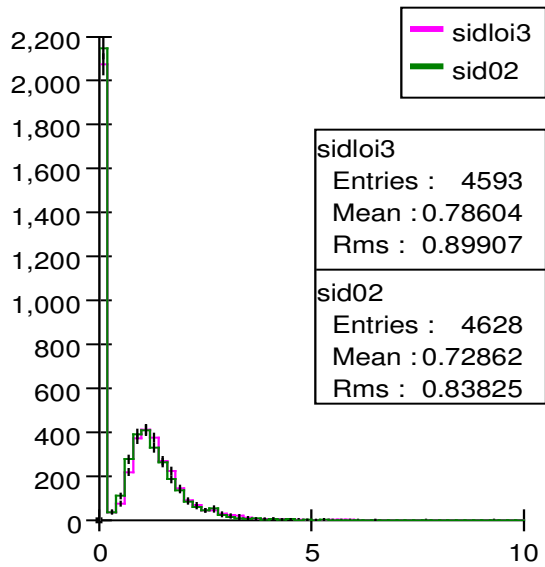
Ron Cassell

3/11/10

Code updates

- Tried to locate layer usage and change to Vlayer where appropriate.
- Especially tricky in mip finding.
- Have NOT: calibrated, changed photonID algorithm, updated scoring.

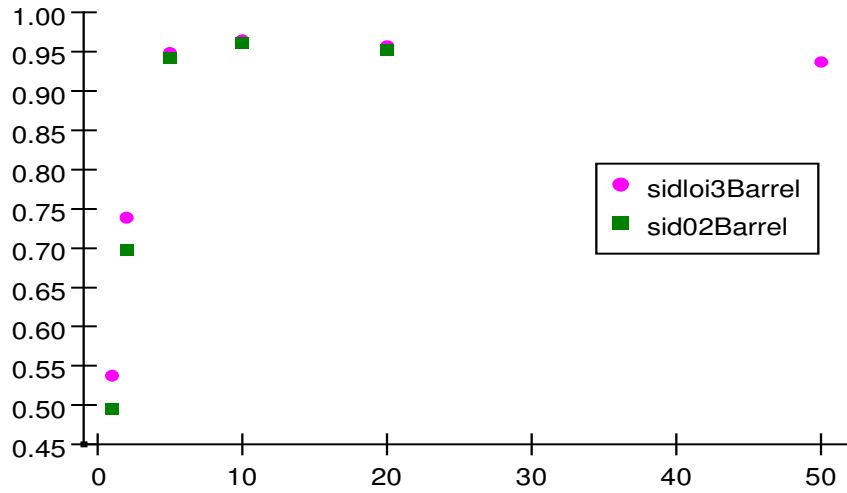
Total Reconstructed Energy: K0L



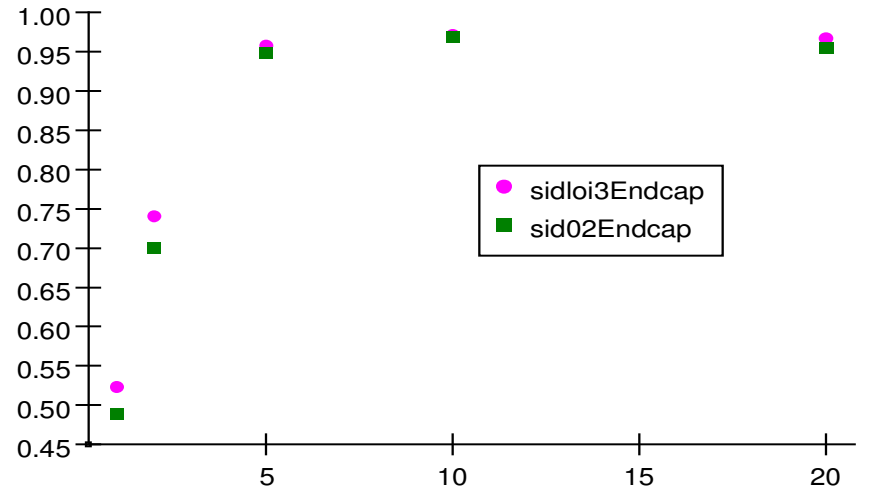
Efficiency definitions

- Eff0 = exactly 1 reconstructed particle, and correct type.
- Eff2 = correct type $E > \frac{1}{2} E_{gen}$

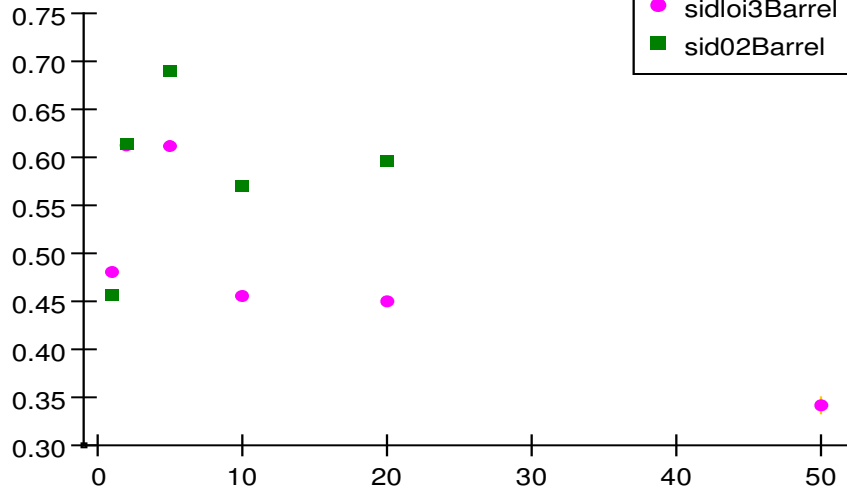
K0L:Beff2



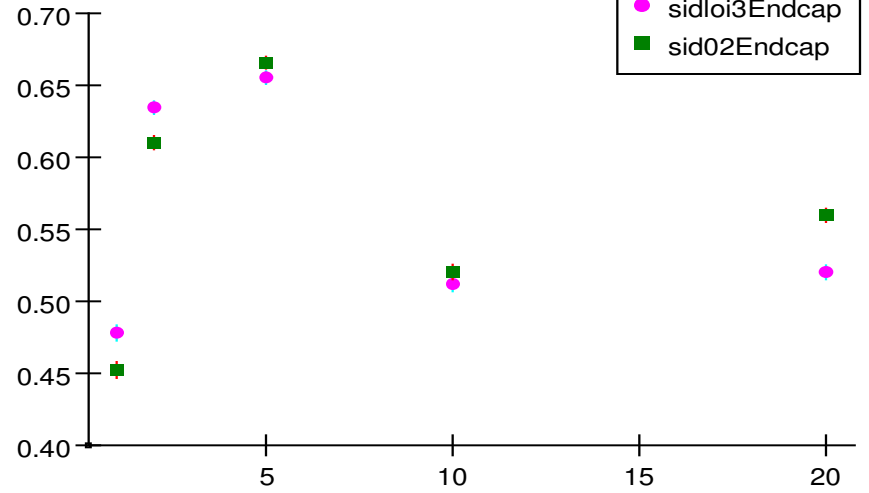
K0L:Eeff2

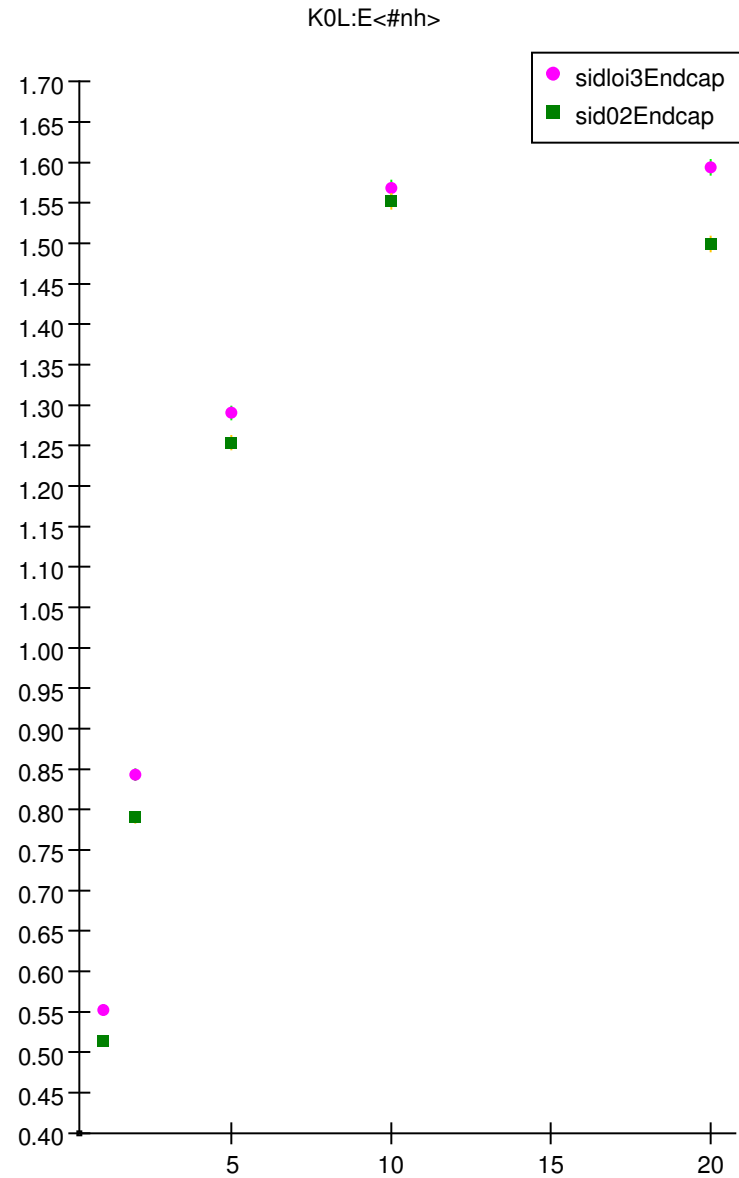
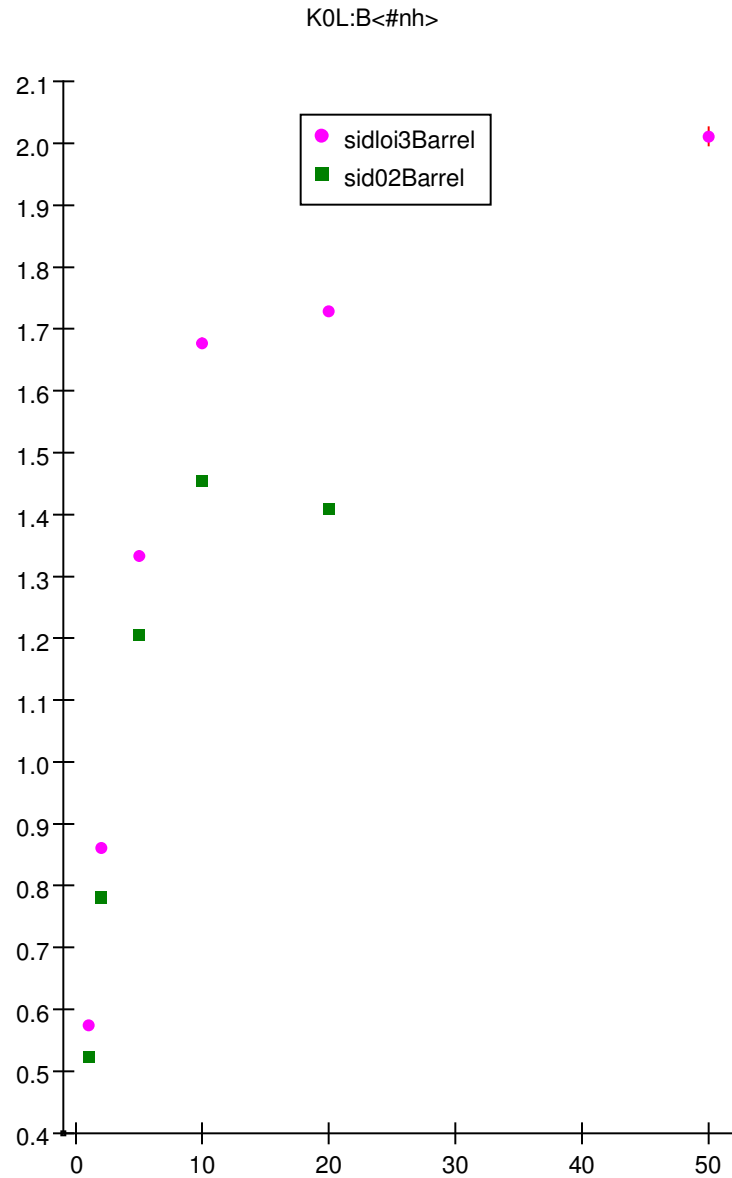


K0L:Beff0

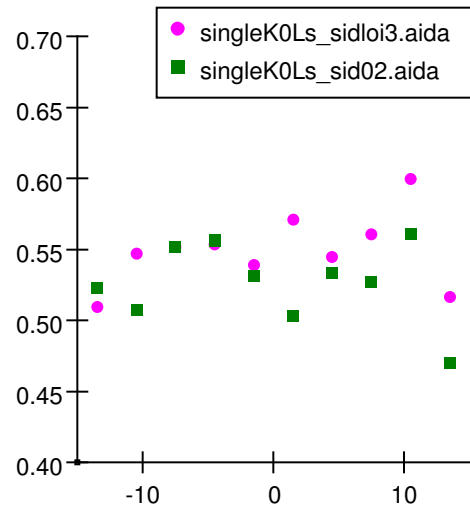


K0L:Eeff0

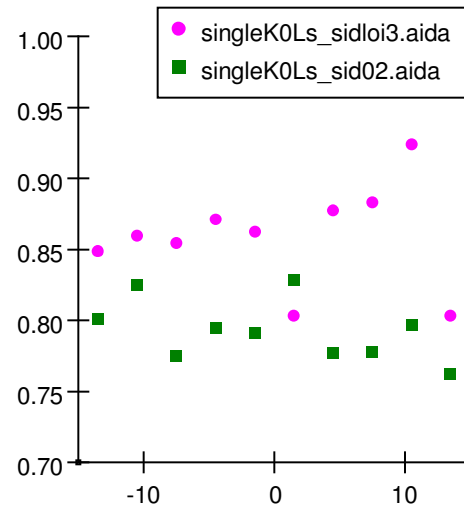




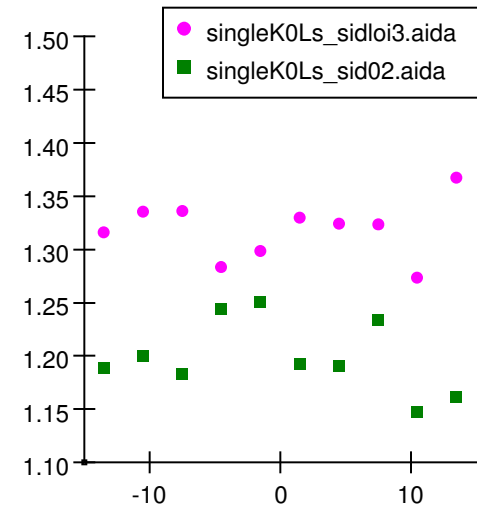
PDG130 - E=1 - ct=.17 - <# nhs> ...



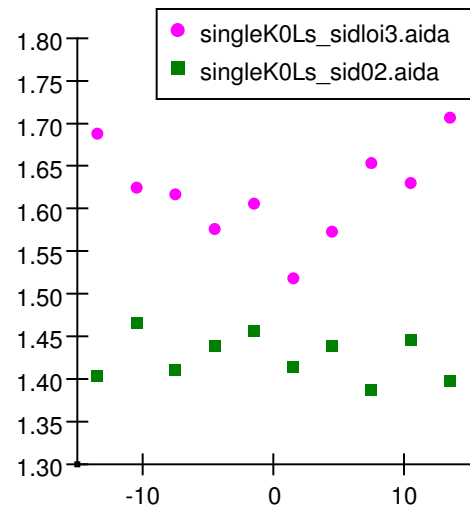
PDG130 - E=2 - ct=.17 - <# nhs> ...



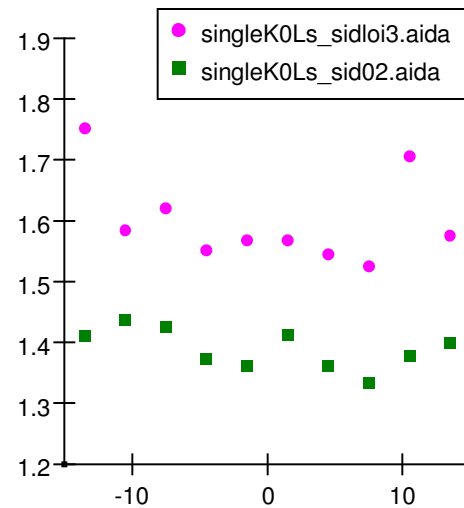
PDG130 - E=5 - ct=.17 - <# nhs> ...



PDG130 - E=10 - ct=.17 - <# nhs>...



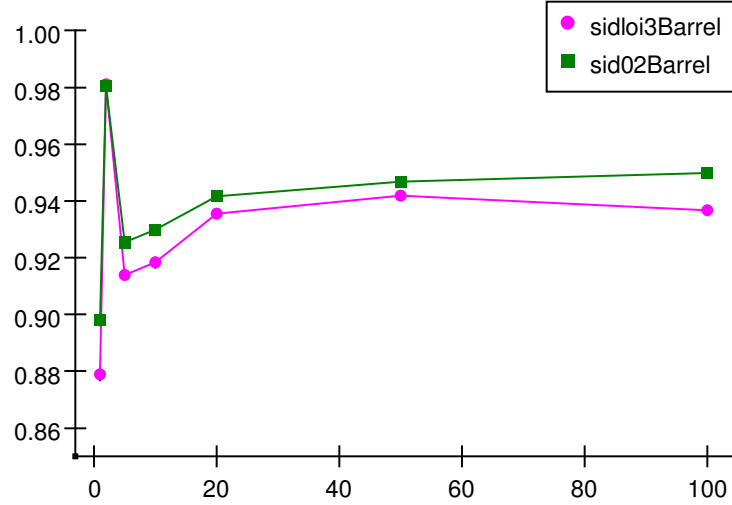
PDG130 - E=20 - ct=.17 - <# nhs>...



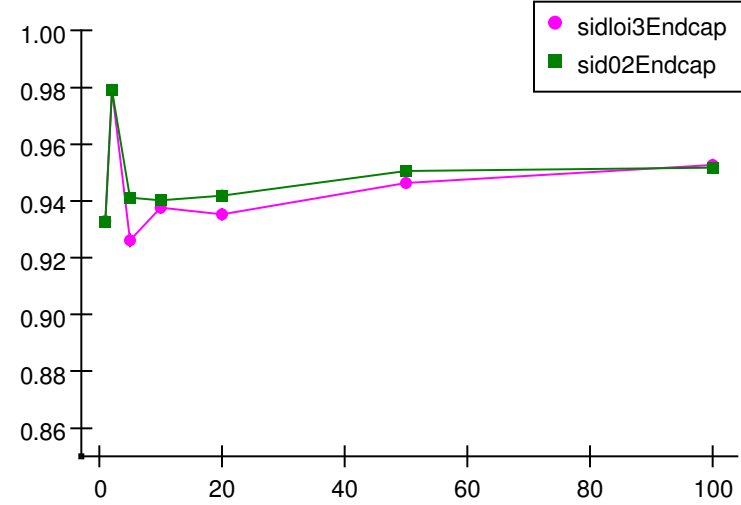
Photons

- Eff3 = maxE recon particle within 4sigma of Egen

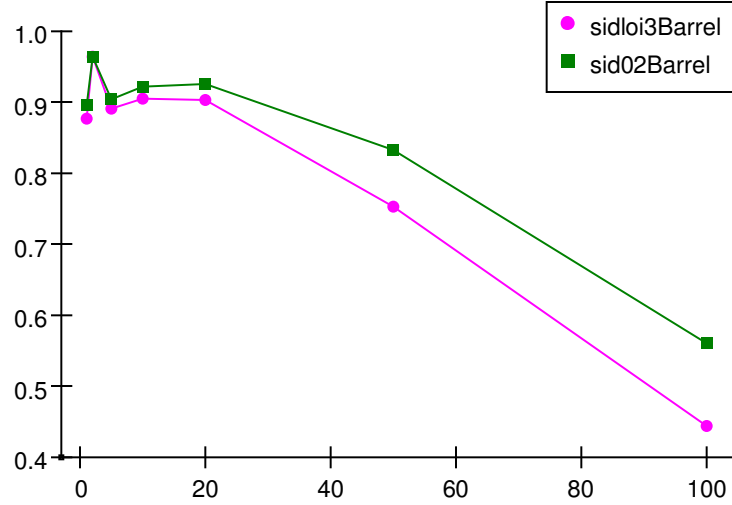
gamma:Beff3



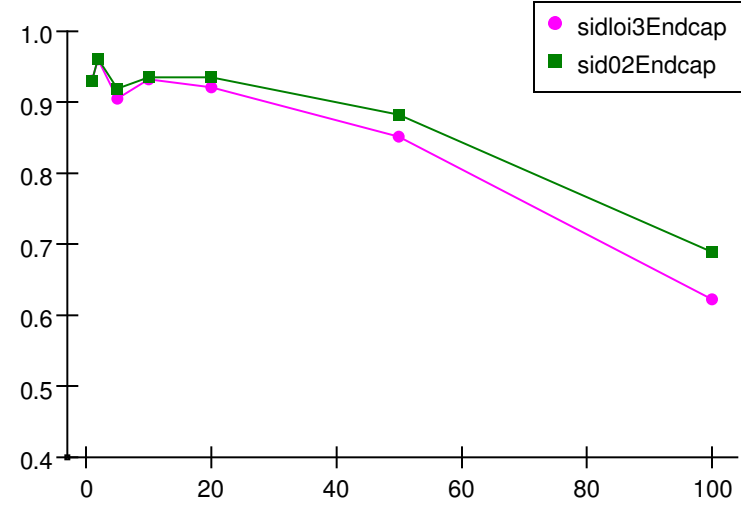
gamma:Eeff3

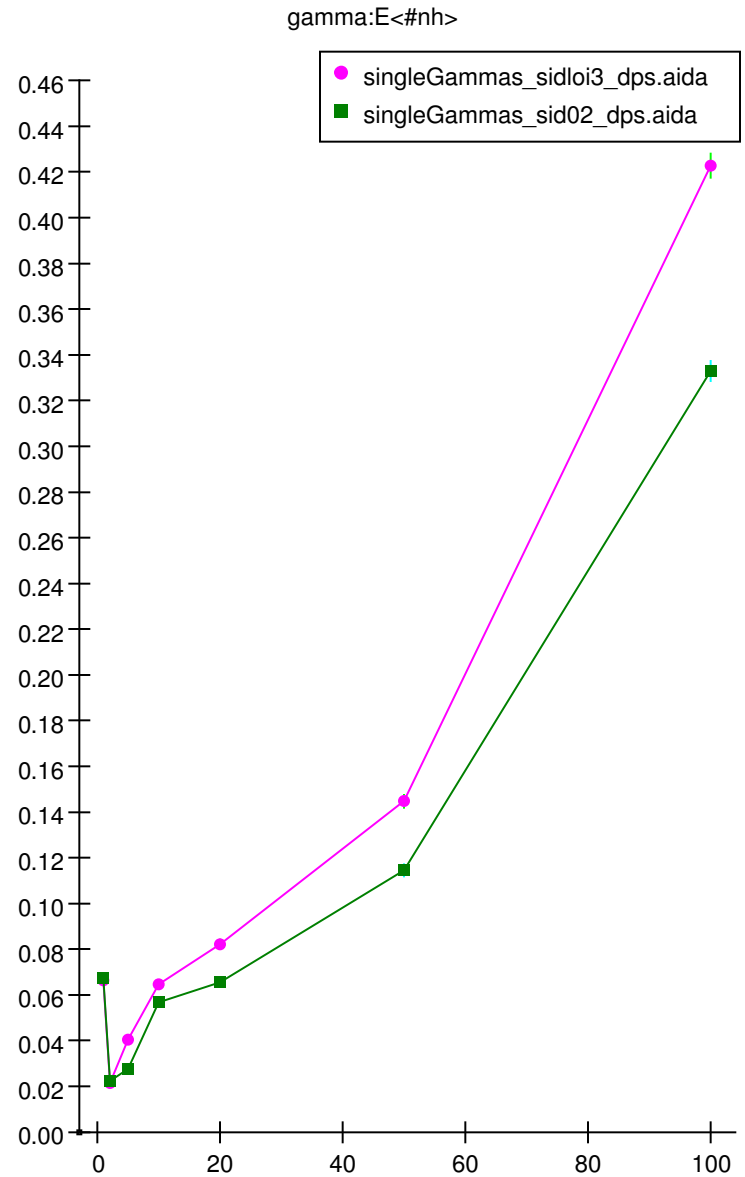
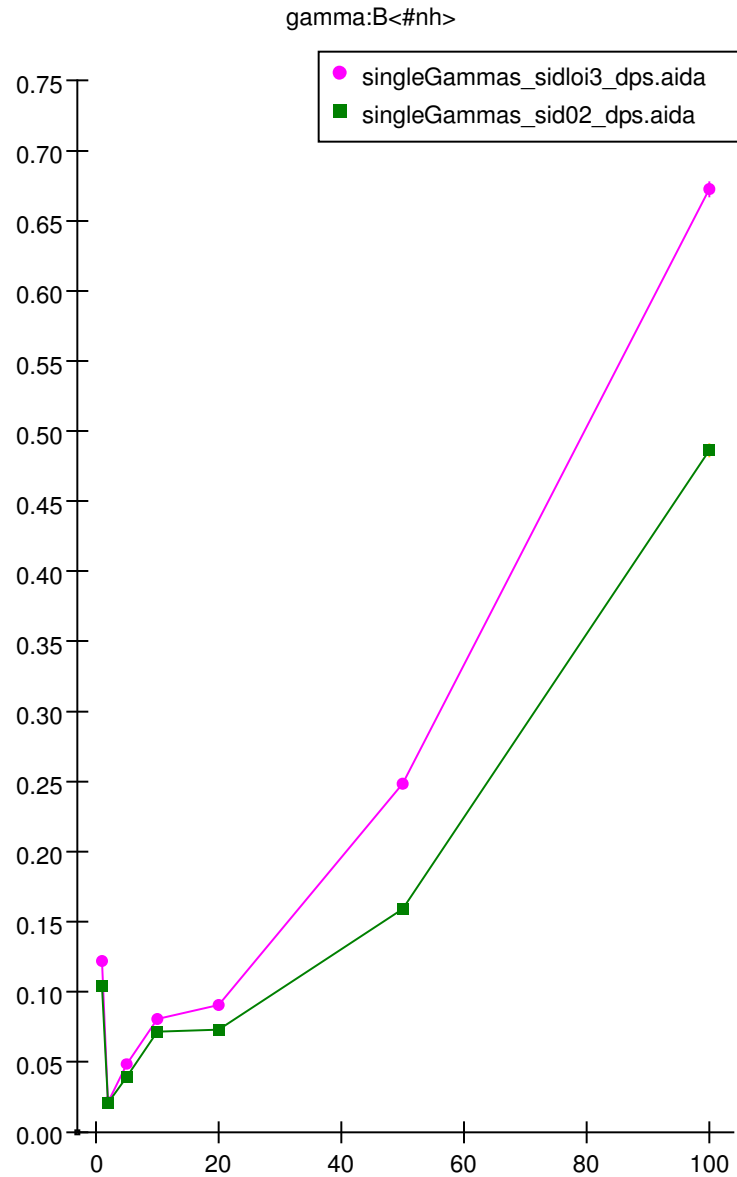


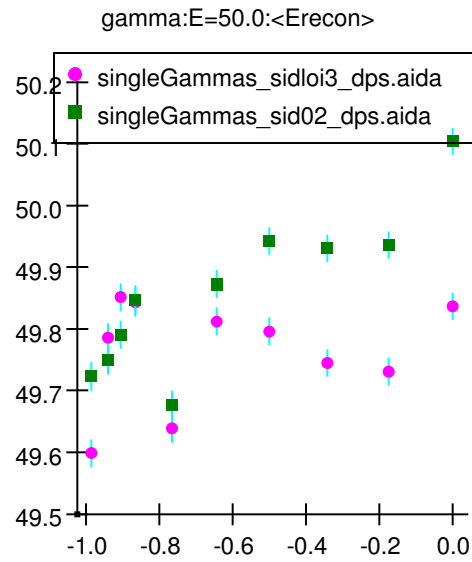
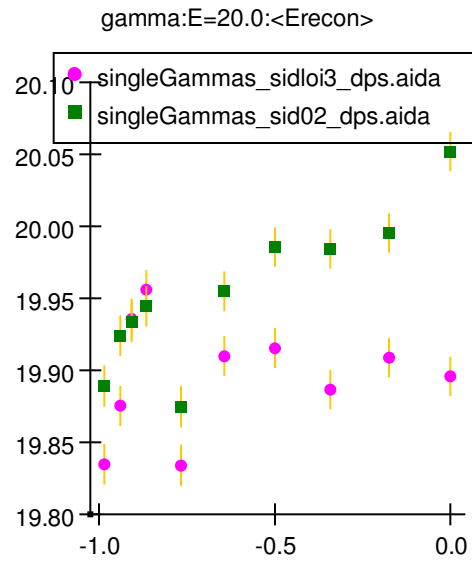
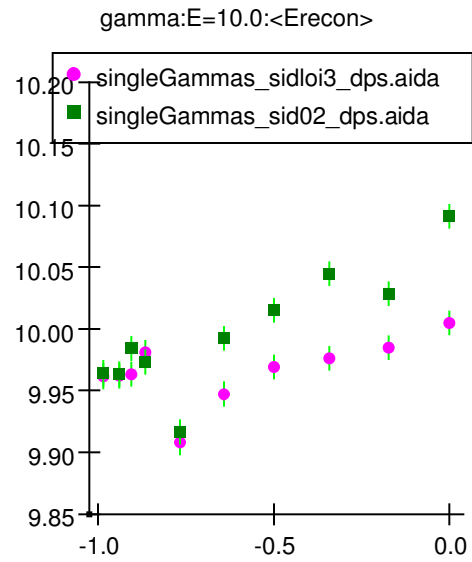
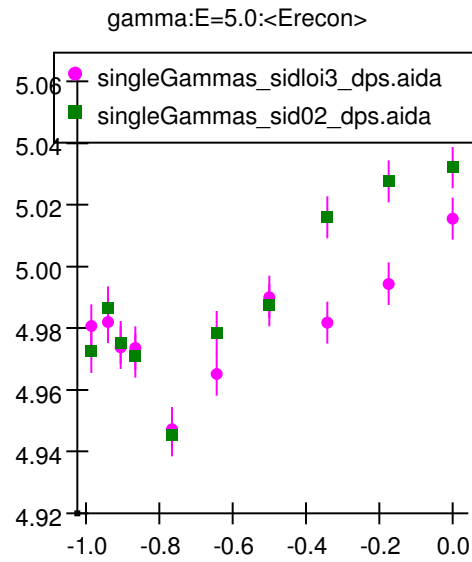
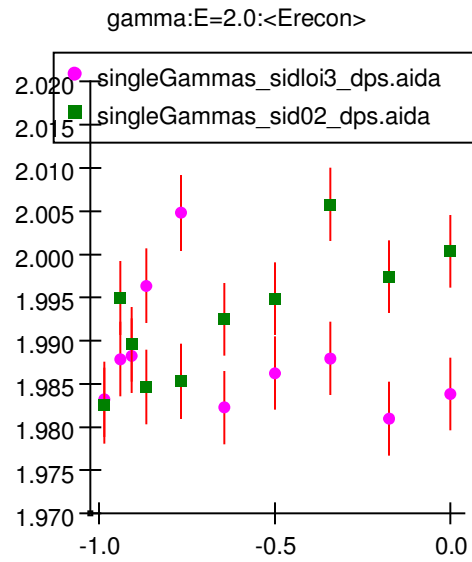
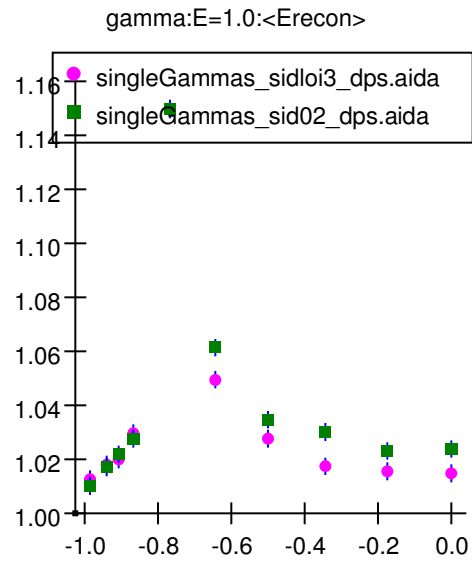
gamma:Beff0



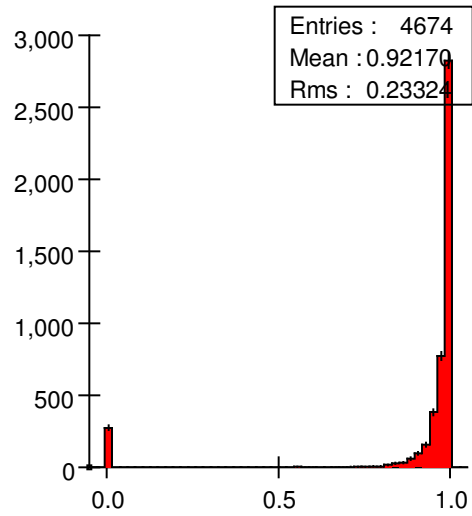
gamma:Eeff0



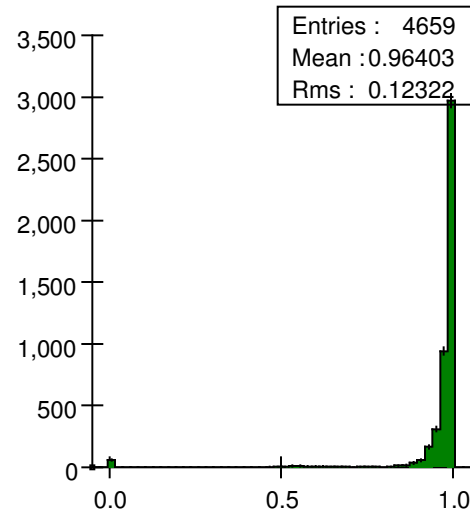




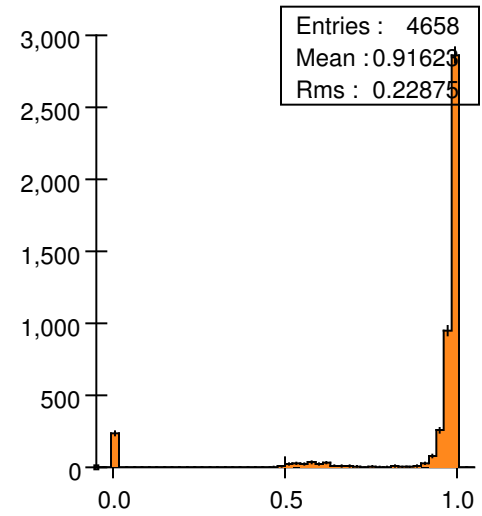
PDG22/E=1/ct=.17/fraction of CaE in ma...



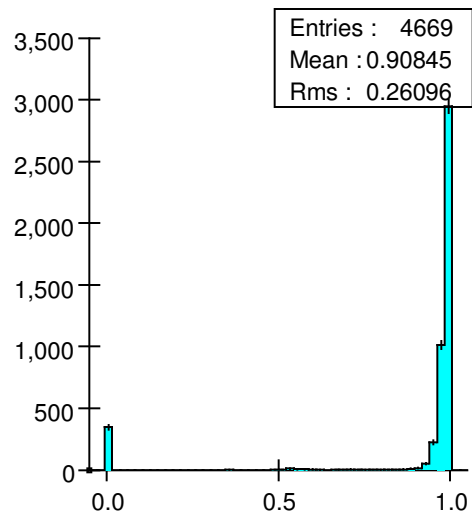
PDG22/E=2/ct=.17/fraction of CaE in ma...



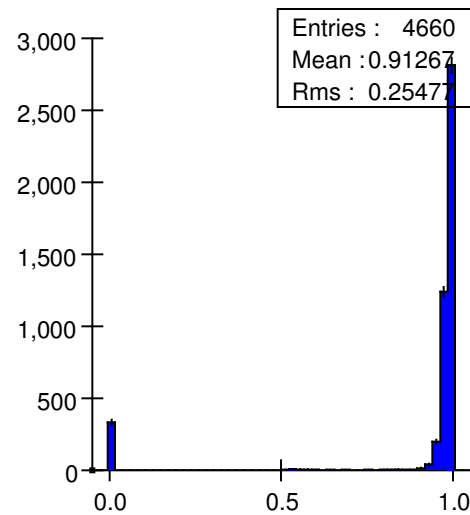
PDG22/E=5/ct=.17/fraction of CaE in ma...



PDG22/E=10/ct=.17/fraction of CaE in m...



PDG22/E=20/ct=.17/fraction of CaE in m...



PDG22/E=50/ct=.17/fraction of CaE in m...

