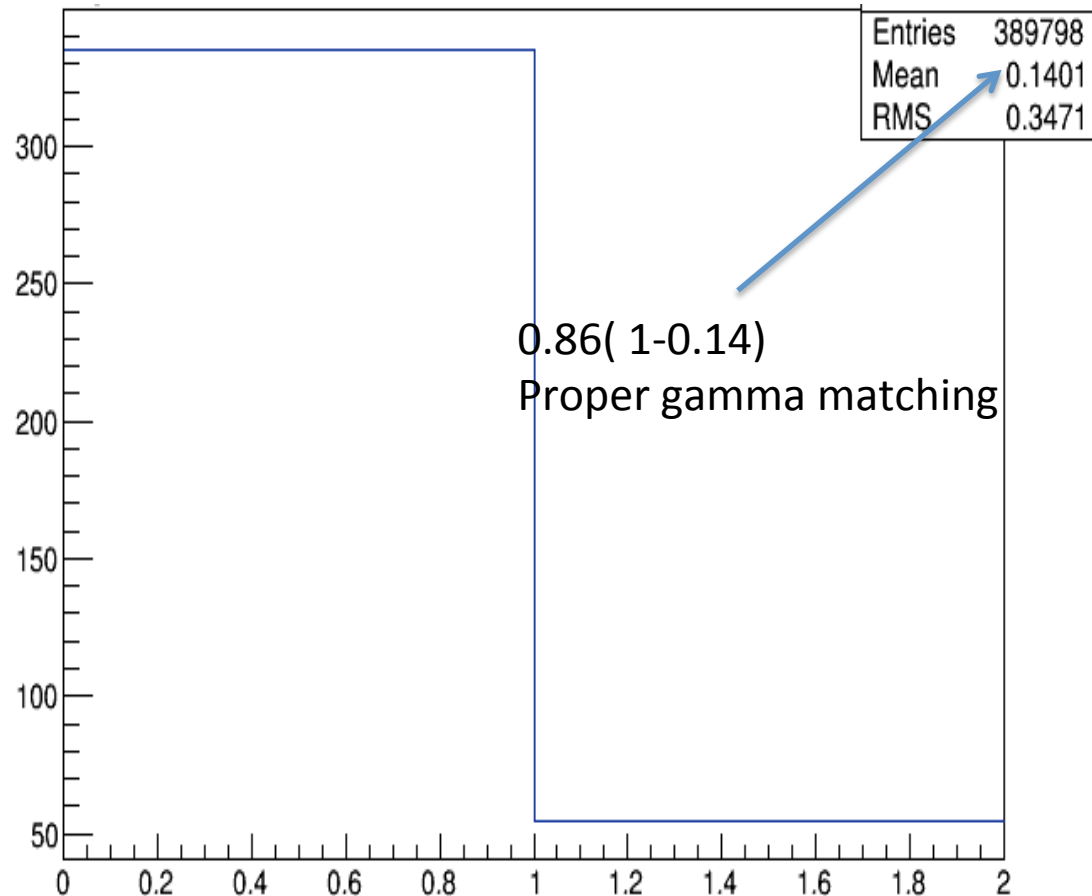
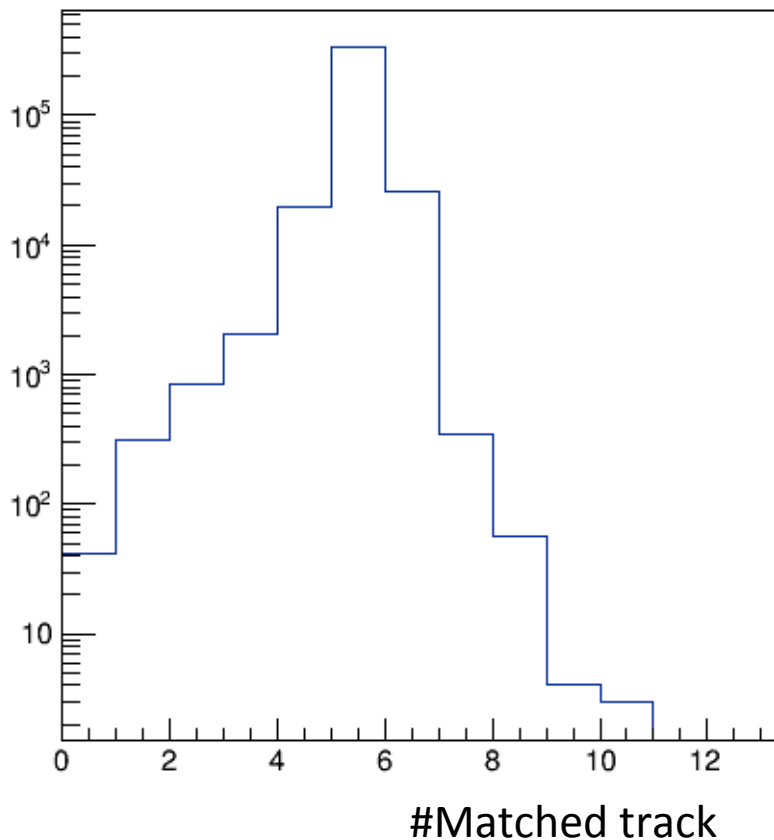


report

$e_{14g(5+1)}$

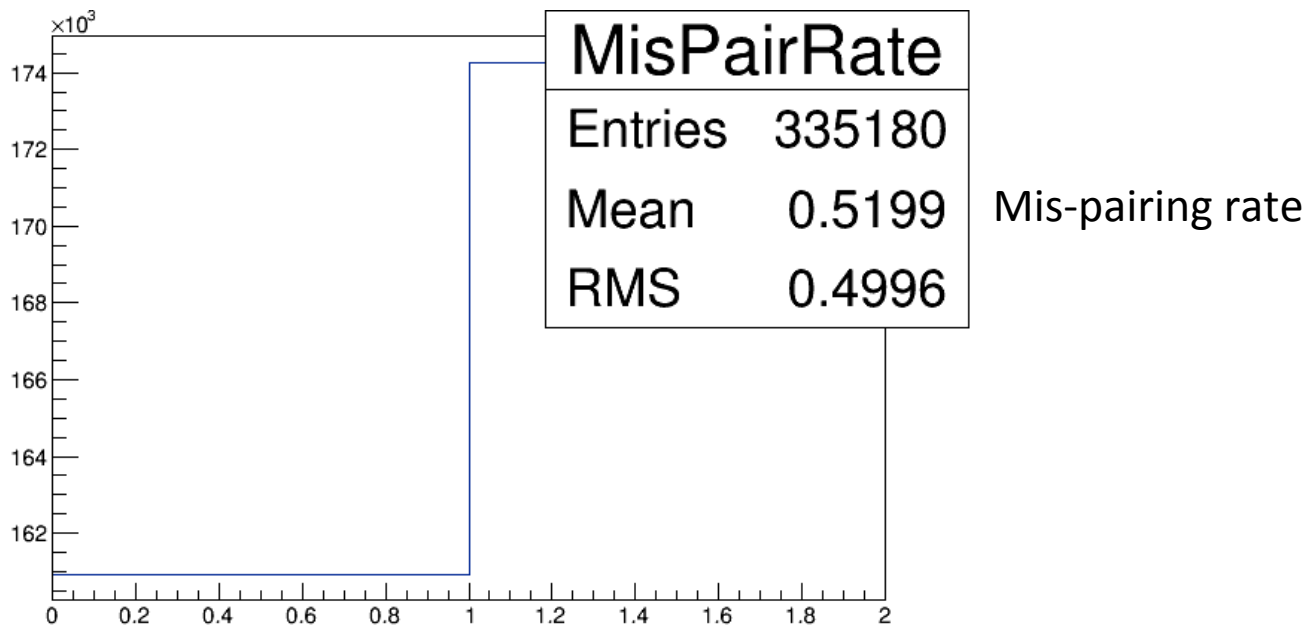
Gamma matching

- Distance_x < 70mm && Distance_y < 70mm
 - Between MC True and Reco(Reconstruction)
 - 5gamma on Csl



Pi0 pairing check

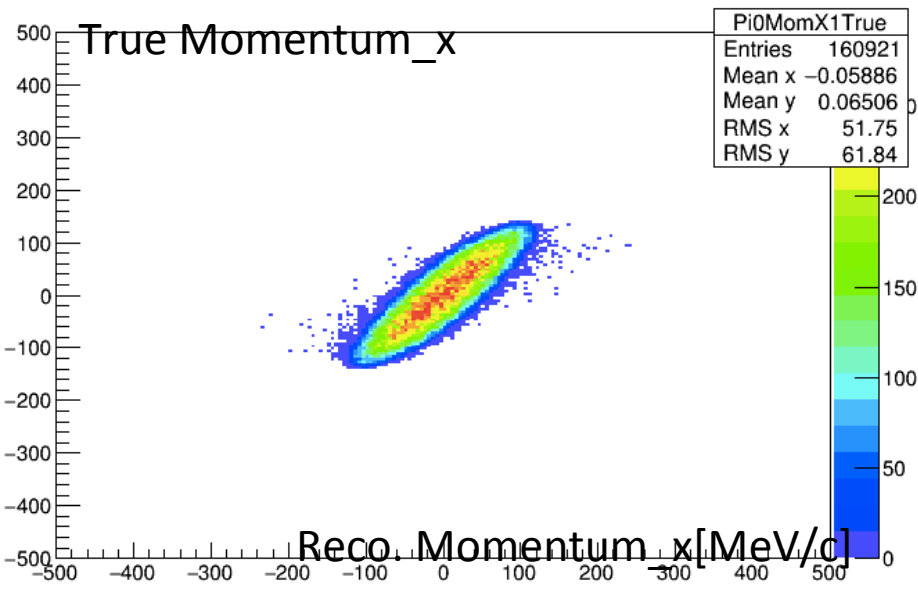
- We can know whether pi0s are matched properly or not.
 - Using MotherID of gammas
 - $\text{MotherID}(\text{pi0_1}, \text{g1}) == \text{MotherID}(\text{pi0_1}, \text{g2}) \ \&\&$
 - $\text{MotherID}(\text{pi0_2}, \text{g1}) == \text{MotherID}(\text{pi0_2}, \text{g2})$
 - Pi0, g are variables in Reco.



Pi0 momentum (properly paired pi0)

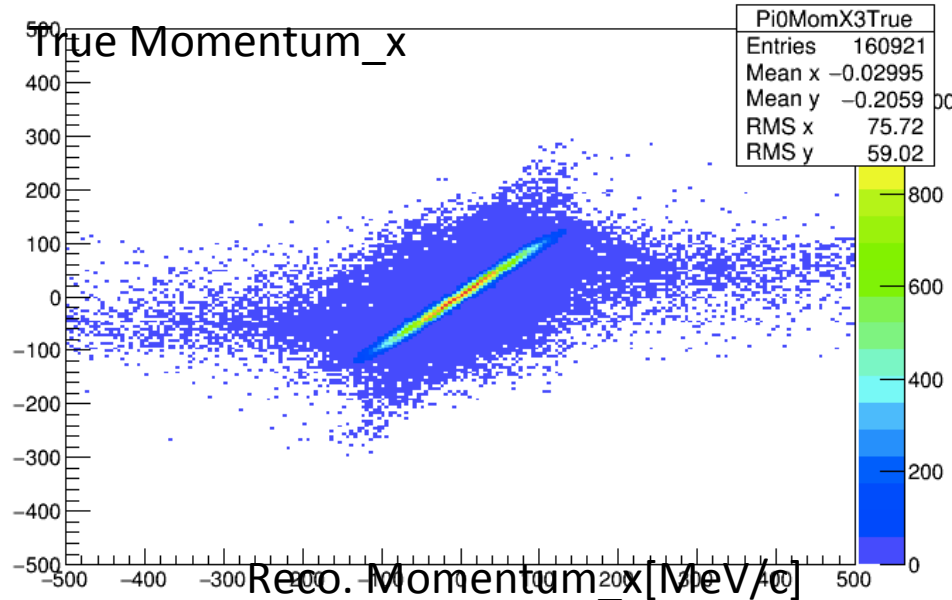
1st pi0 (Csl)

Pi0MomX



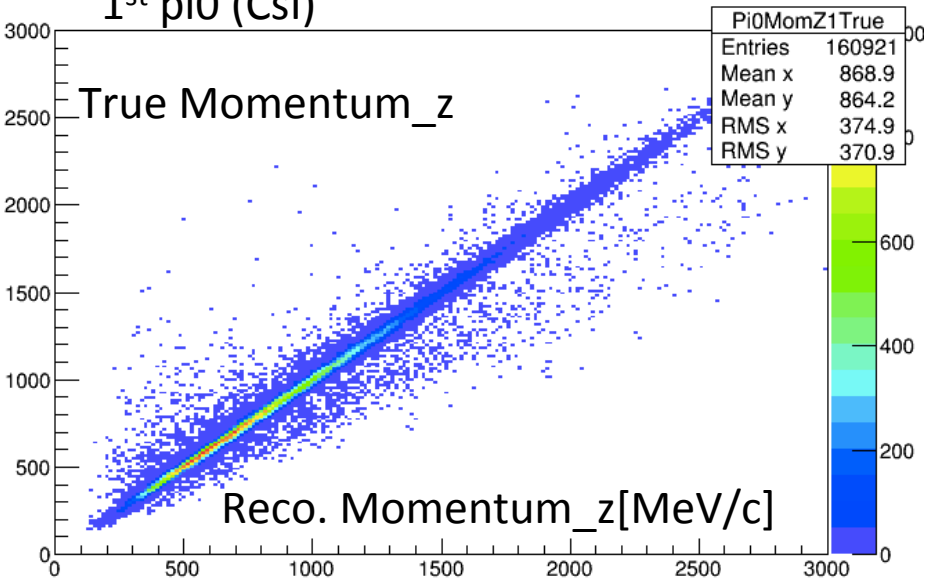
3rd pi0 (MB)

Pi0MomX



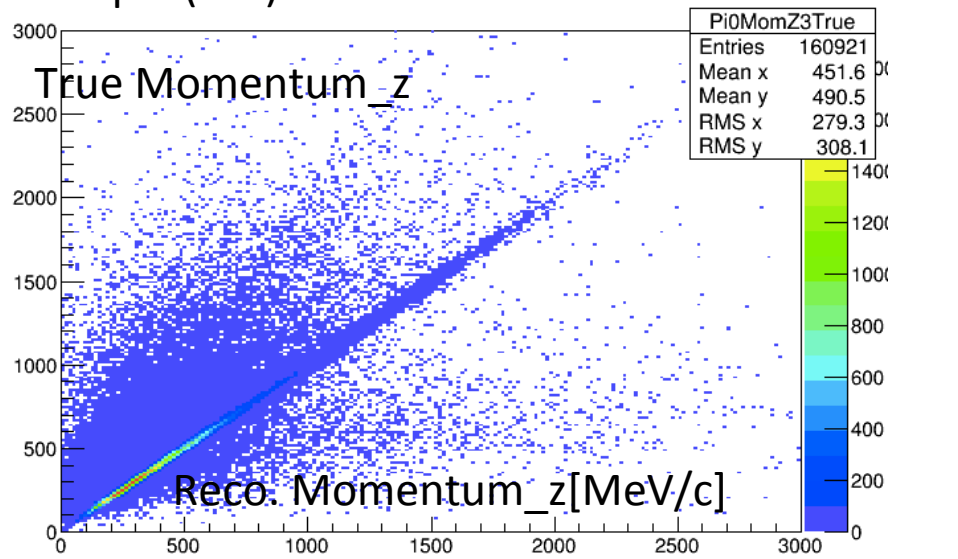
1st pi0 (Csl)

Pi0MomZ

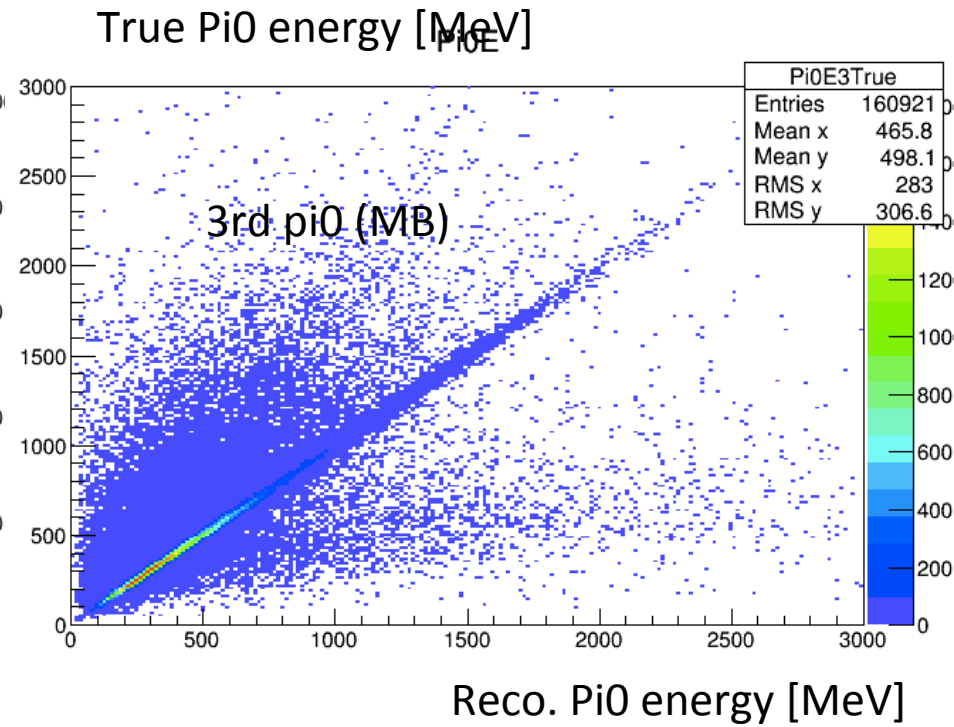
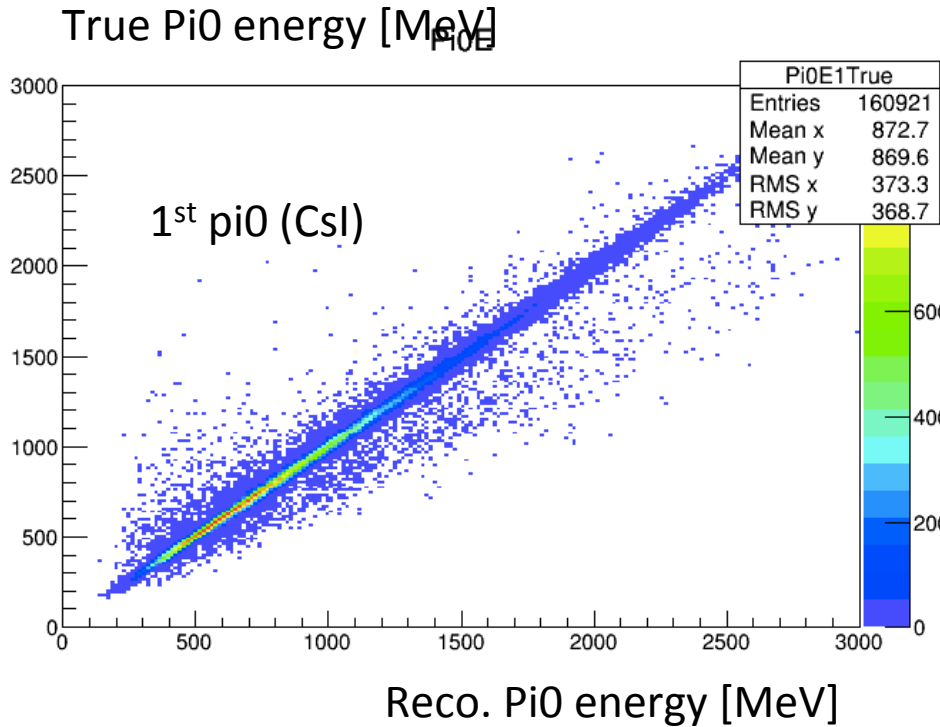


3rd pi0 (MB)

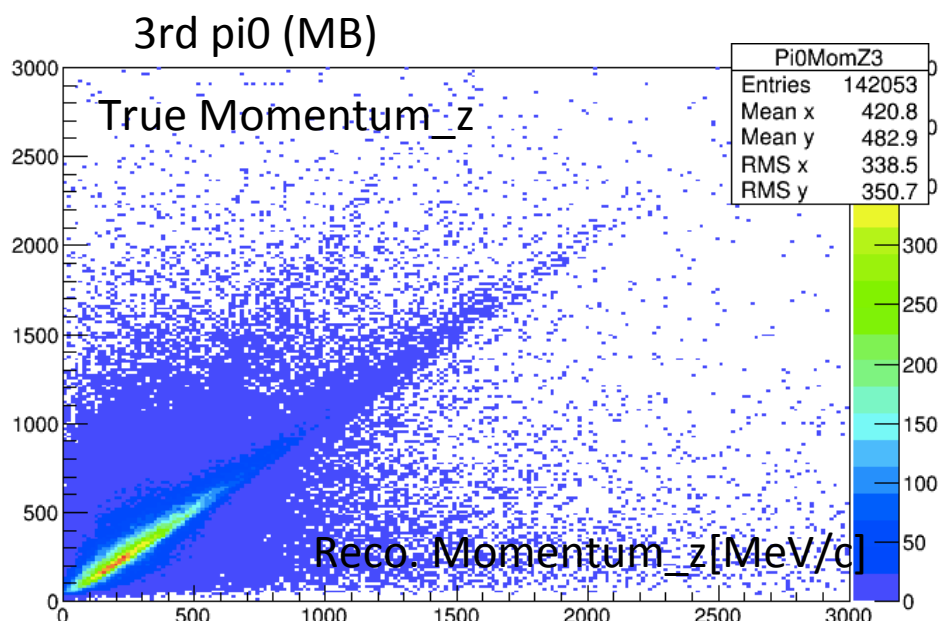
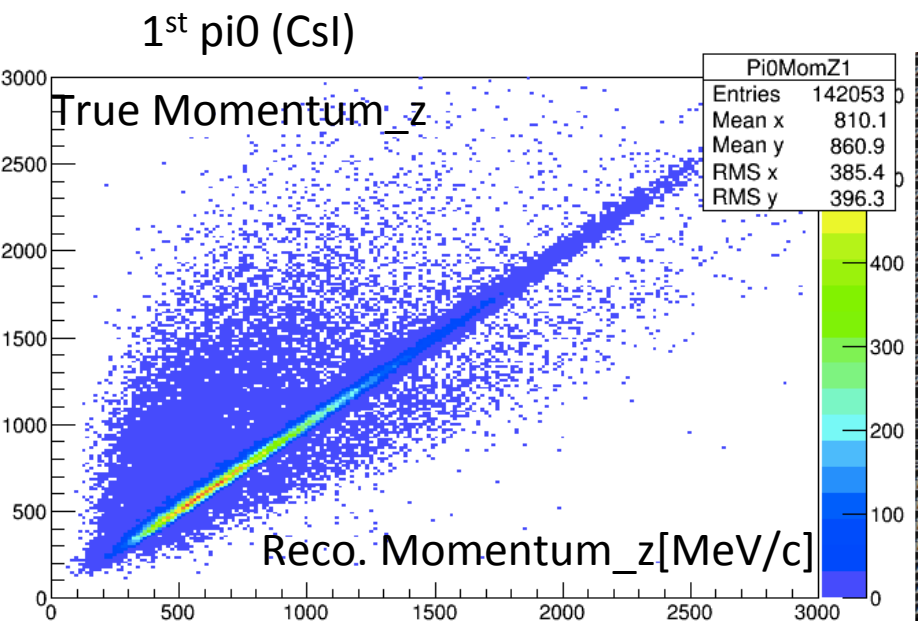
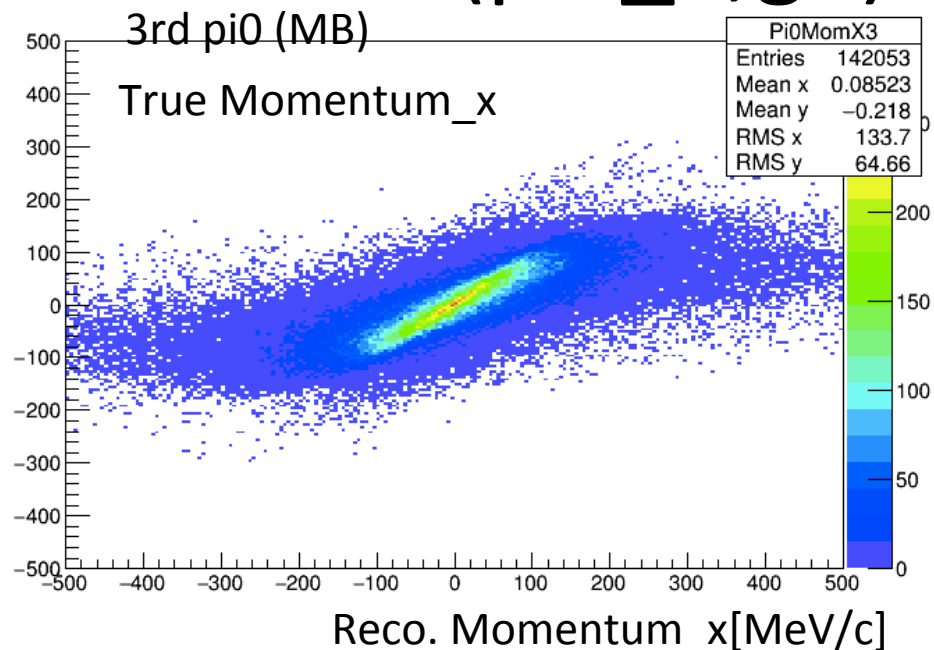
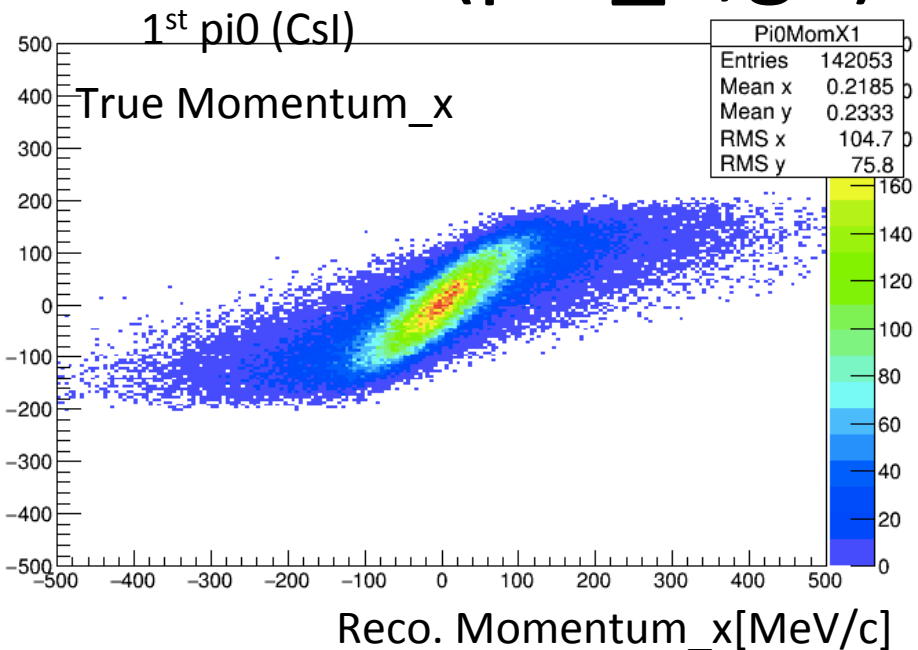
Pi0MomZ



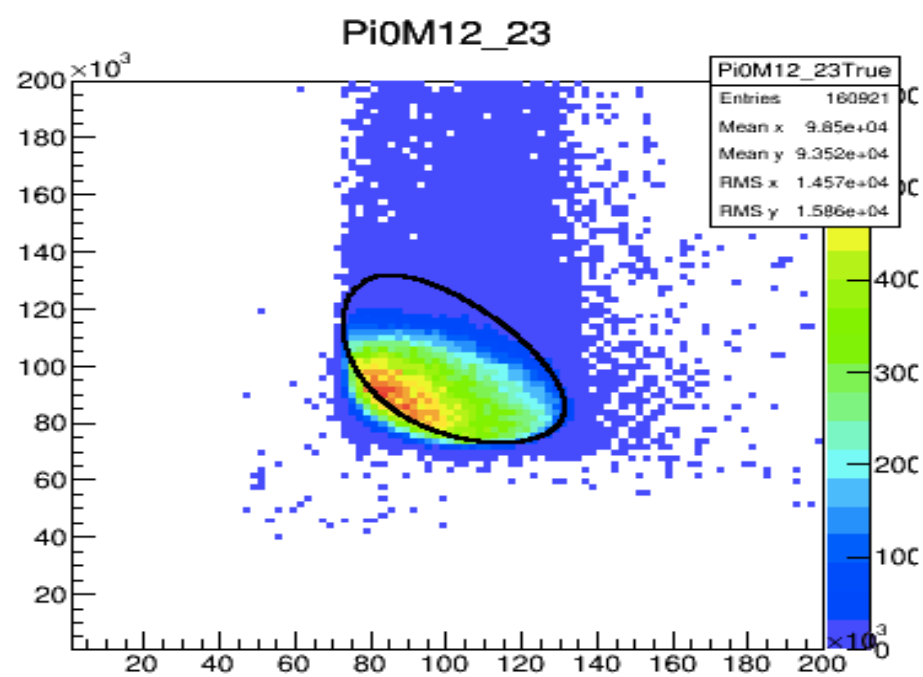
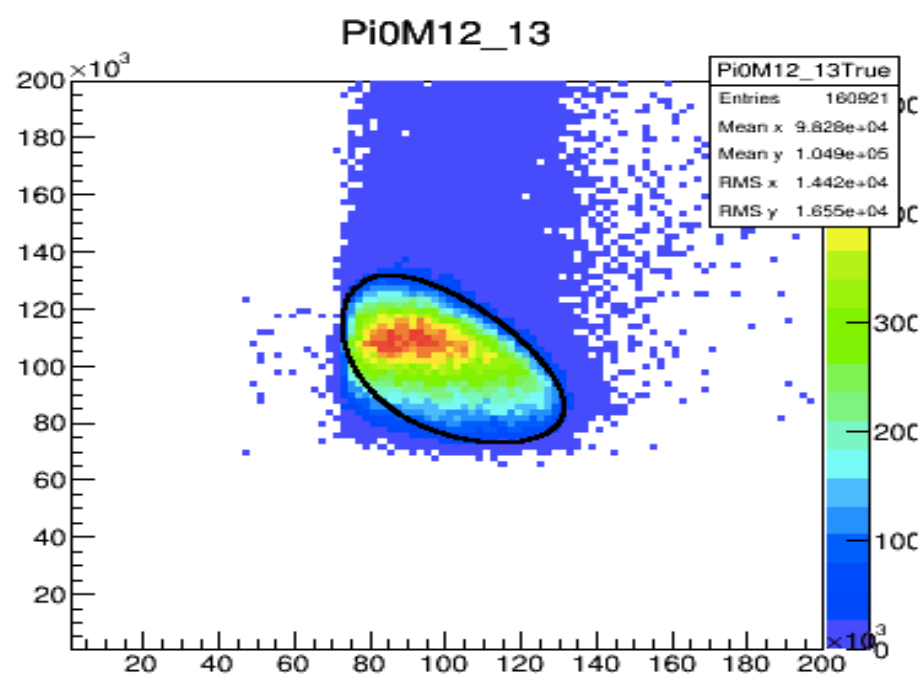
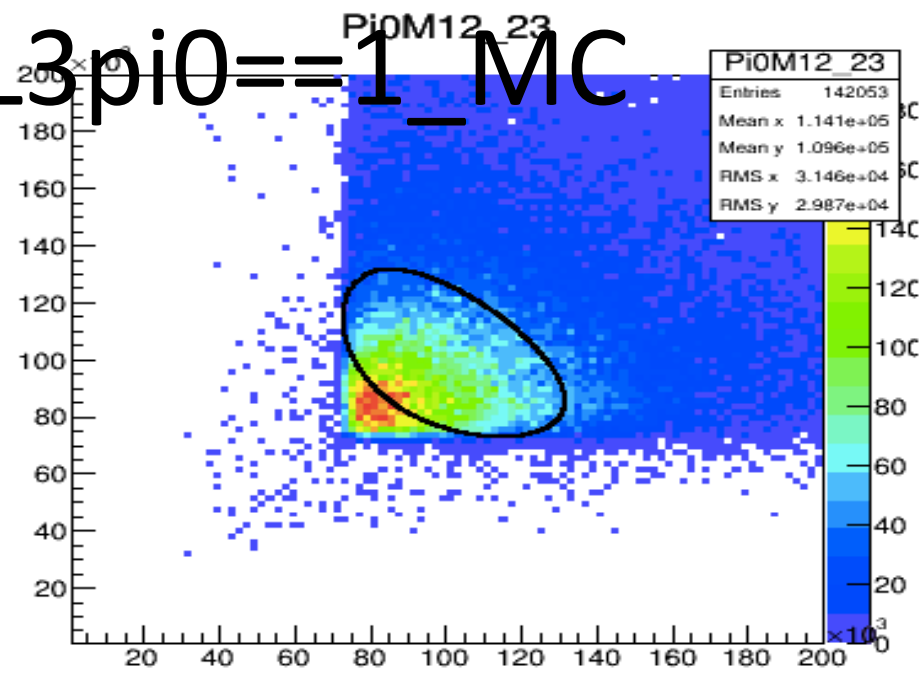
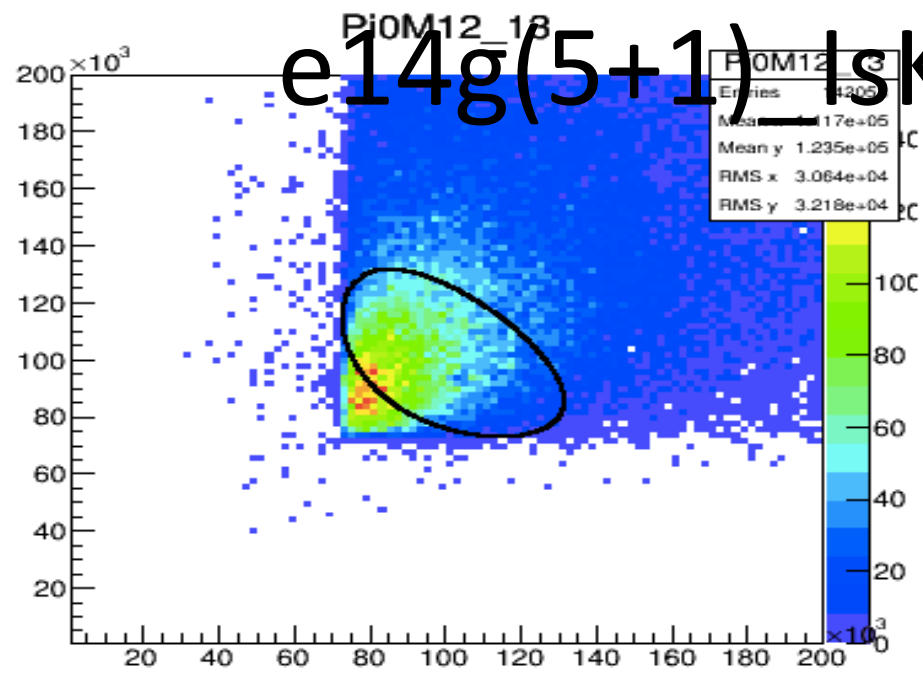
Pi0 energy (properly paired pi0)



MotherID(pi0_1,g1) != MotherID(pi0_1,g2)

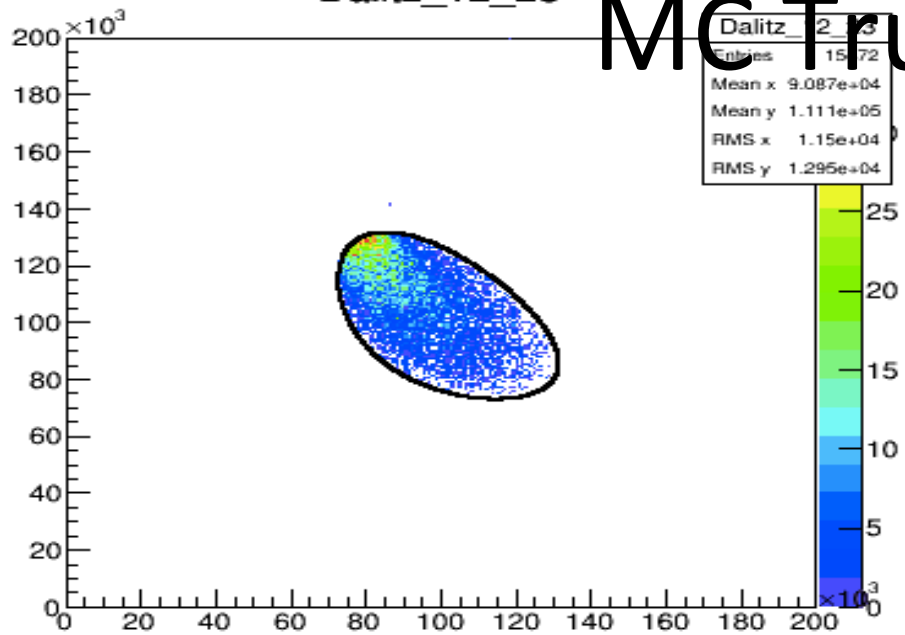


$e14g(5+1)_{-}IsKL3\pi0==1_MC$

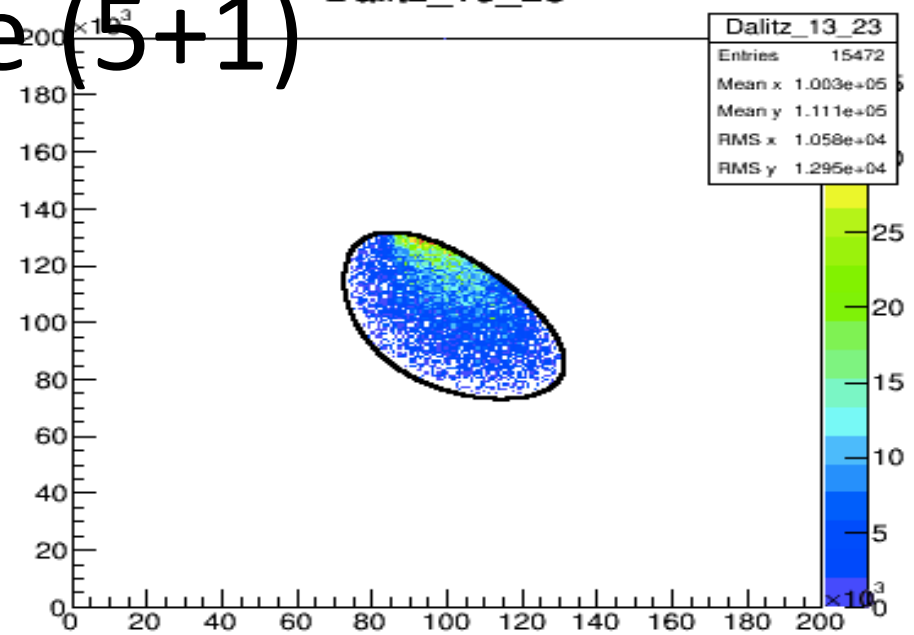


MC True (5+1)

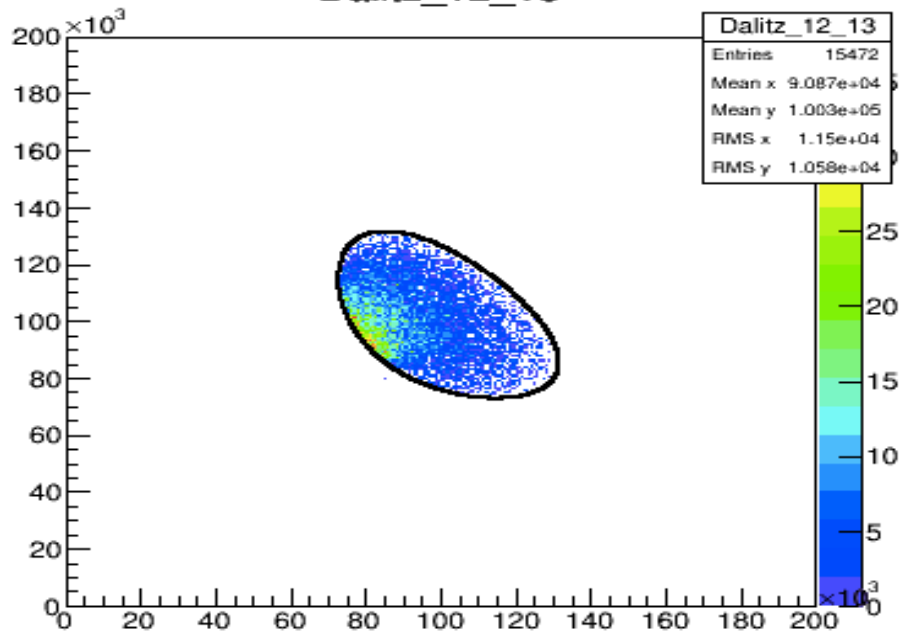
Dalitz_12_23



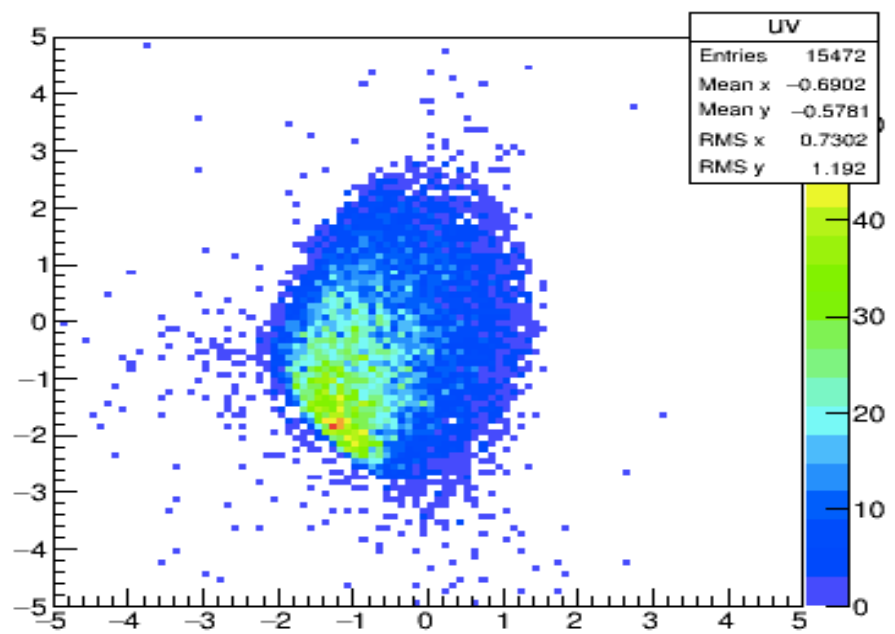
Dalitz_13_23



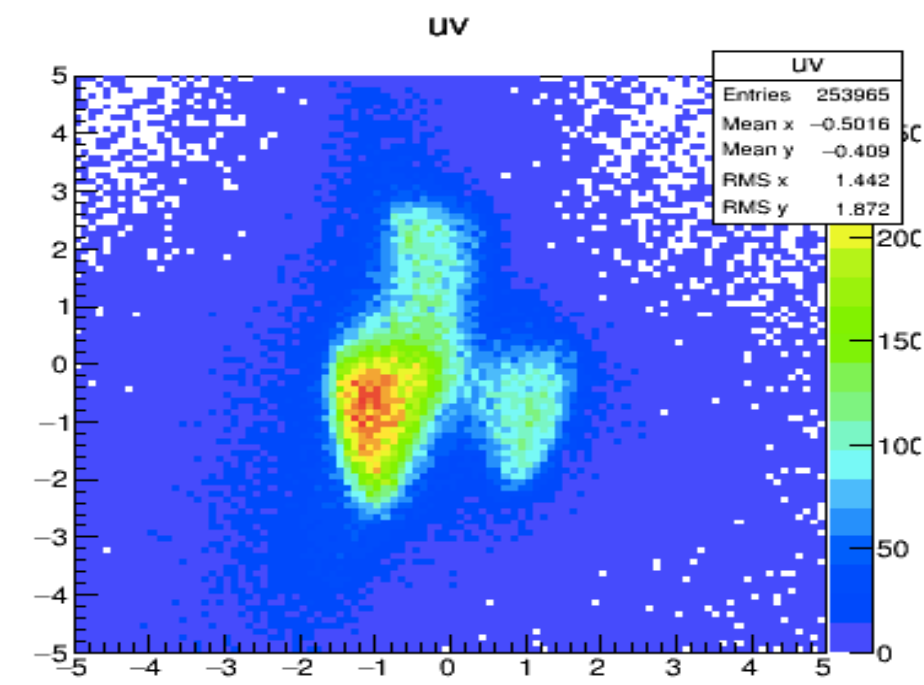
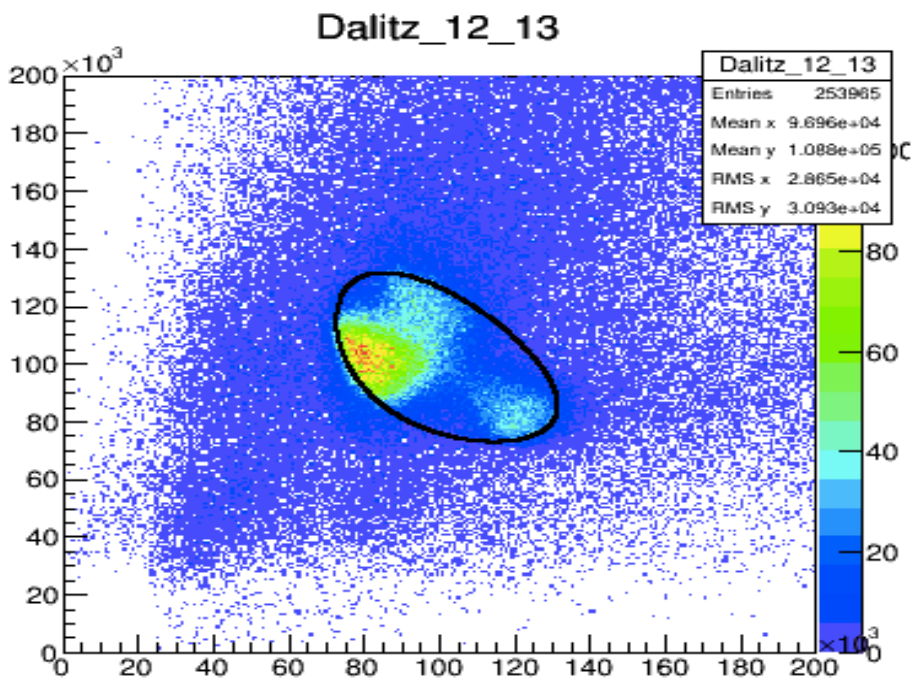
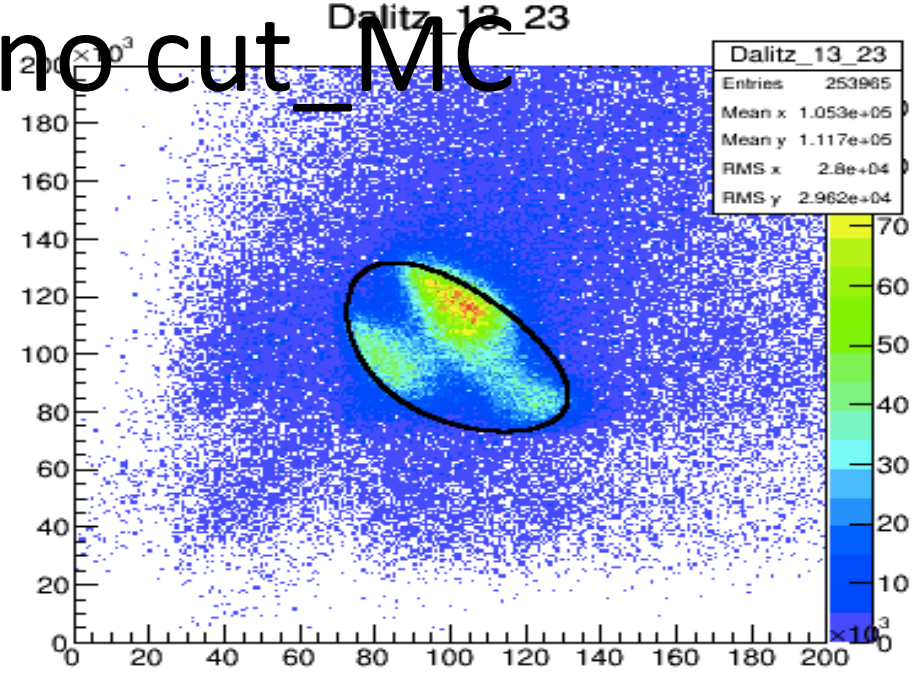
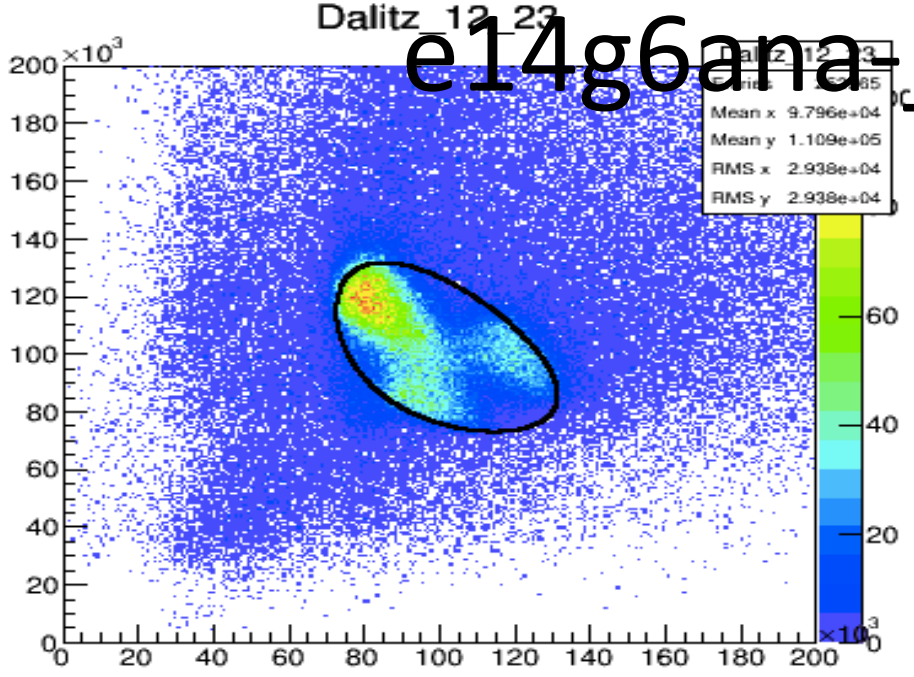
Dalitz_12_13



uv

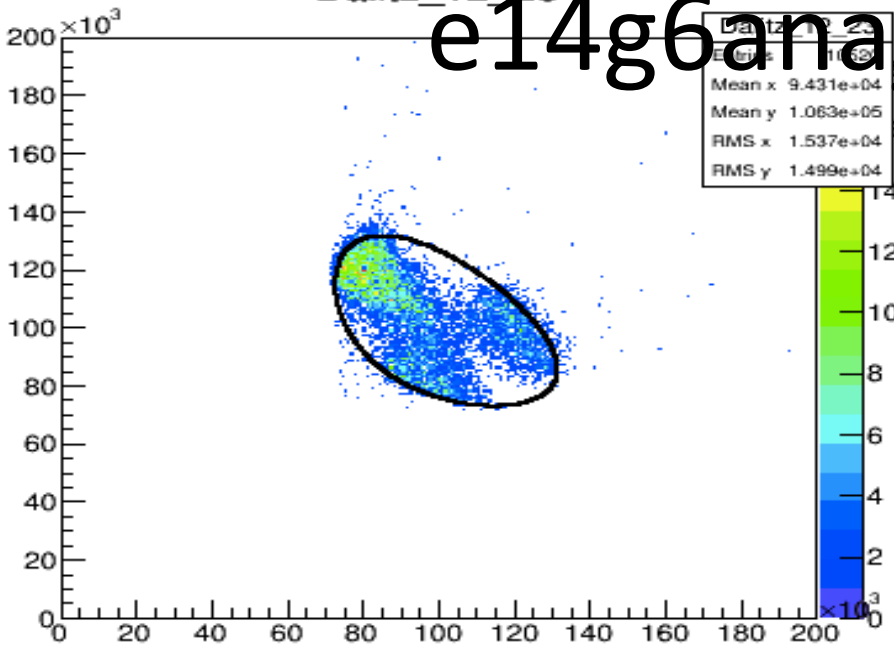


e14g6ana_no_cut_MC

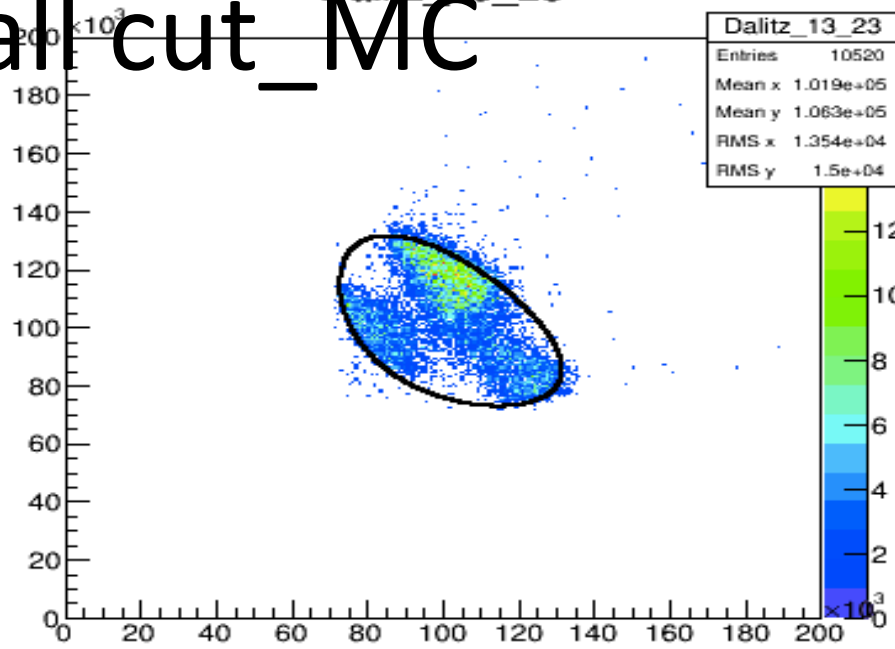


e14g6ana_all cut_MC

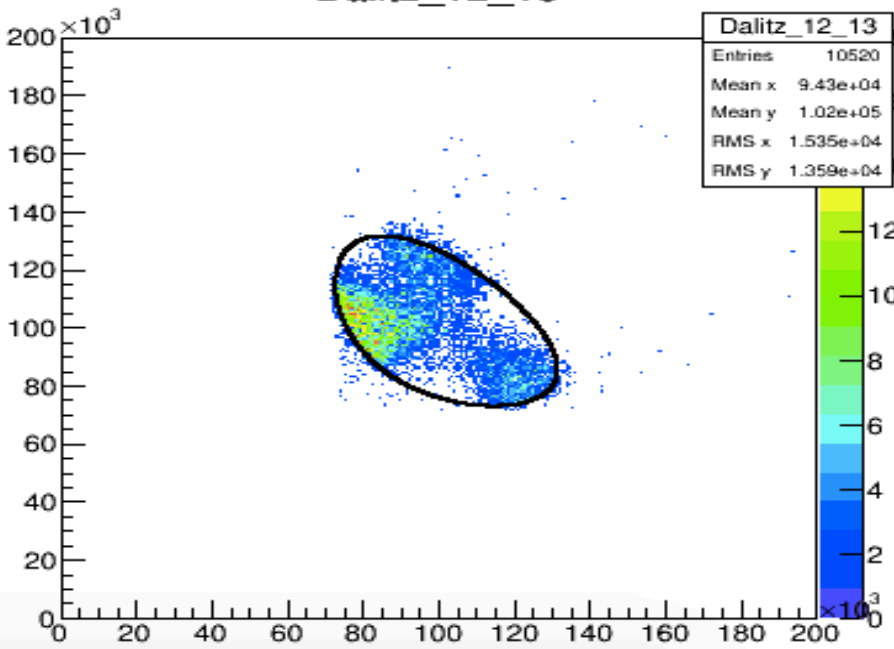
Dalitz_12_23



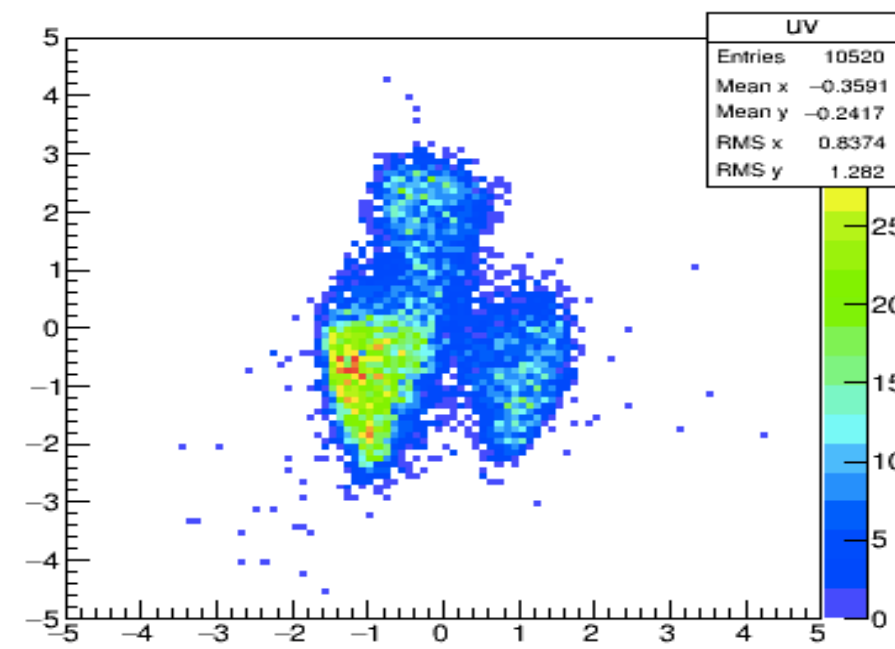
Dalitz_13_23



Dalitz_12_13



UV



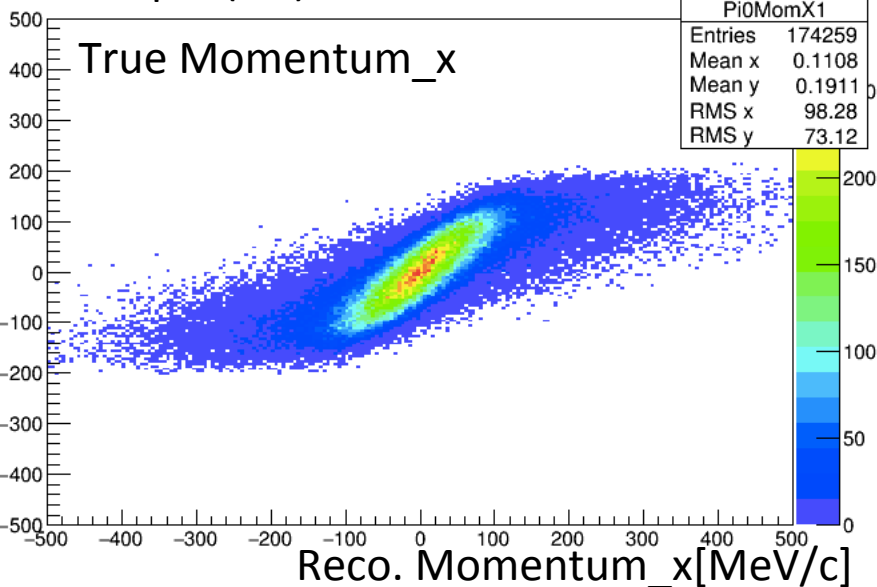
6g

- Chi2 cut 제대로 하고있나?

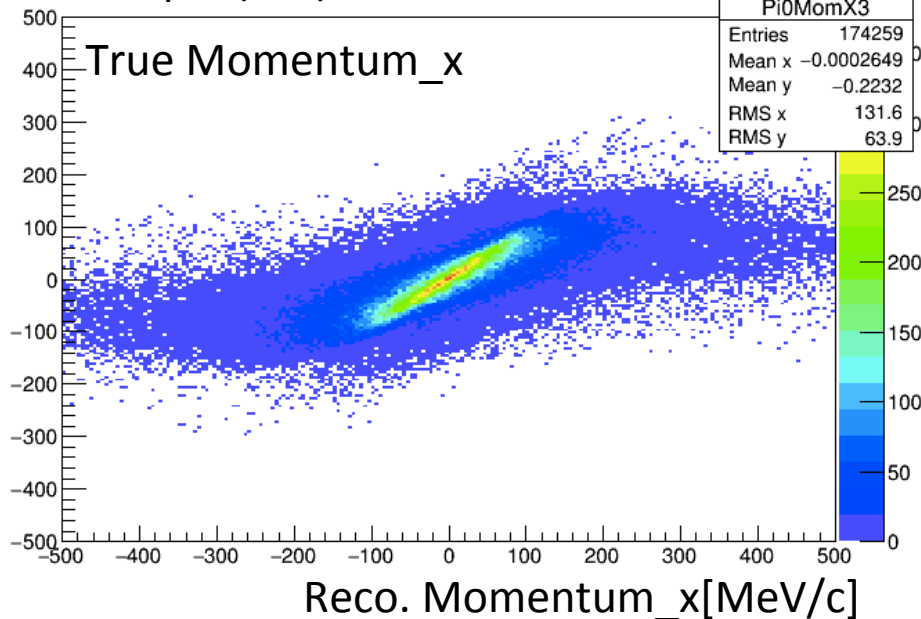
MotherID(pi0_1,g1) != MotherID(pi0_1,g2) ||
MotherID(pi0_2,g1) != MotherID(pi0_2,g2)

Pi0 momentum (mis-paired pi0)

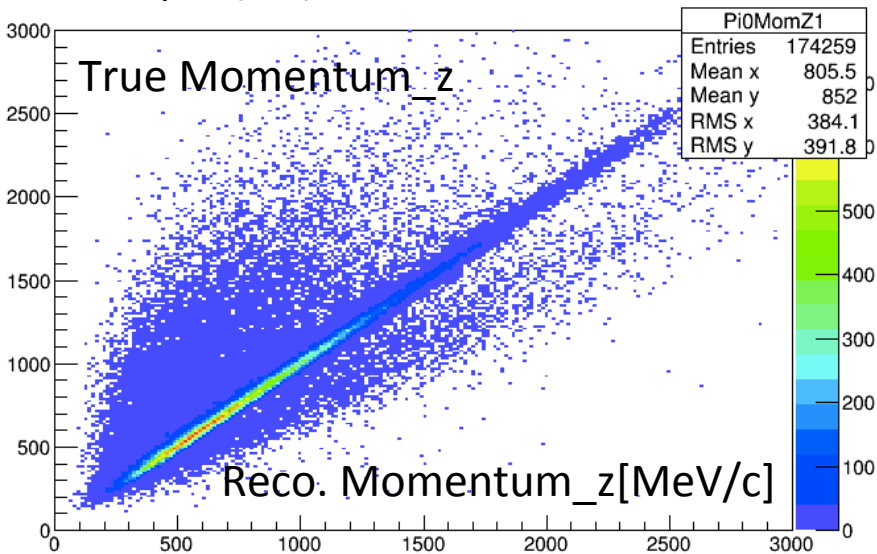
1st pi0 (Csl) Pi0MomX



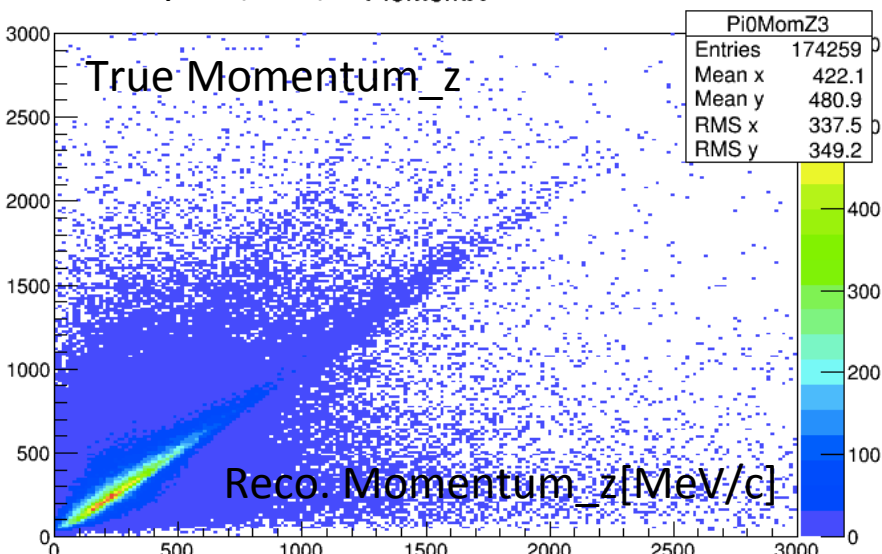
3rd pi0 (MB) Pi0MomX



1st pi0 (Csl) Pi0MomZ

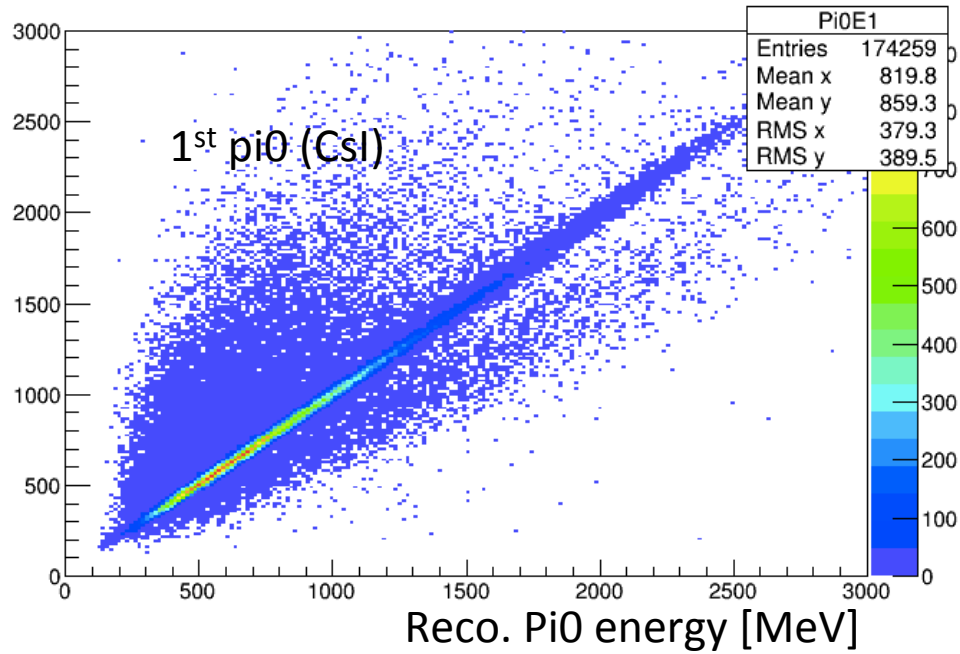


3rd pi0 (MB) Pi0MomZ

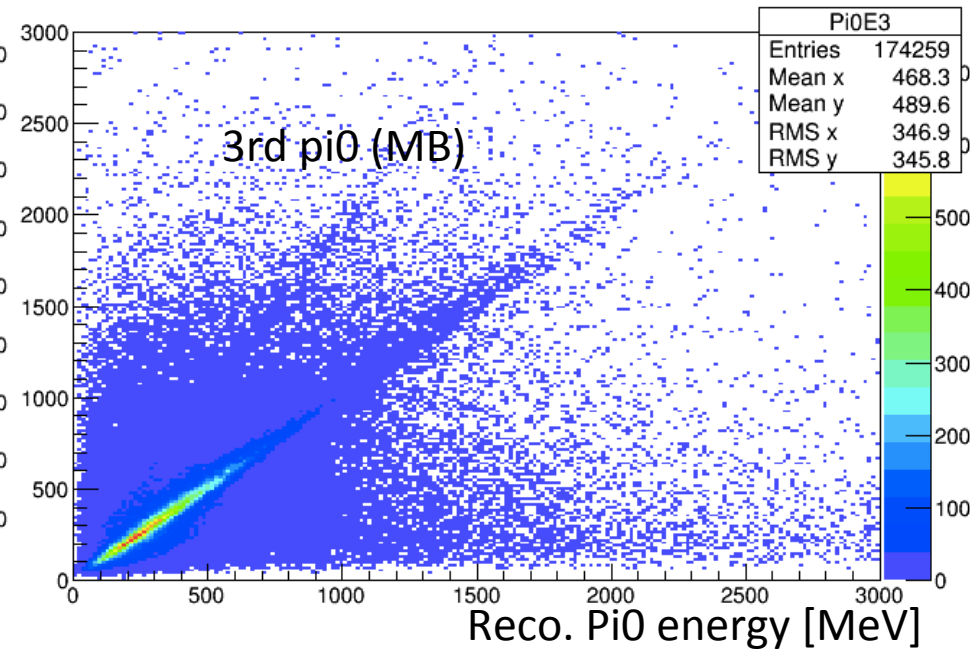


Pi0 energy

True Pi0 energy [MeV]
Pi0E



True Pi0 energy [MeV]
Pi0E



e14g(5+1)_IsKL3pi0==1_MC additional

