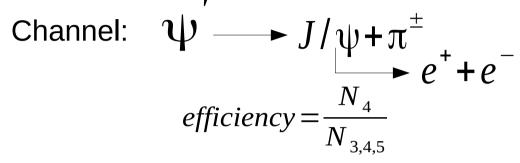
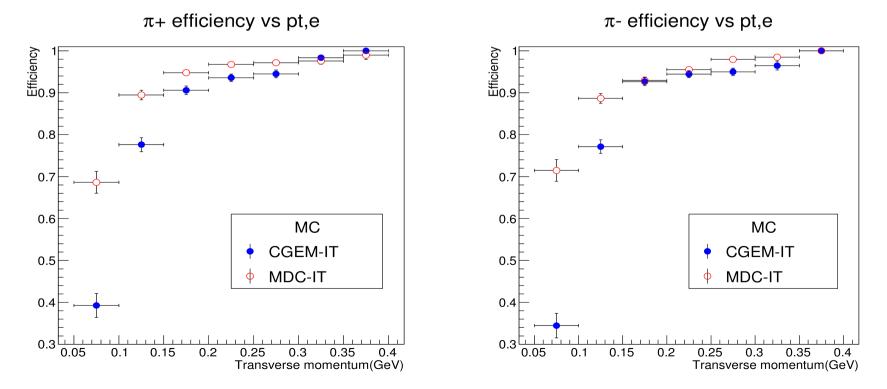
Analysis of pipijpsi Events with CGEM

Huang Zhen 2017.05.11

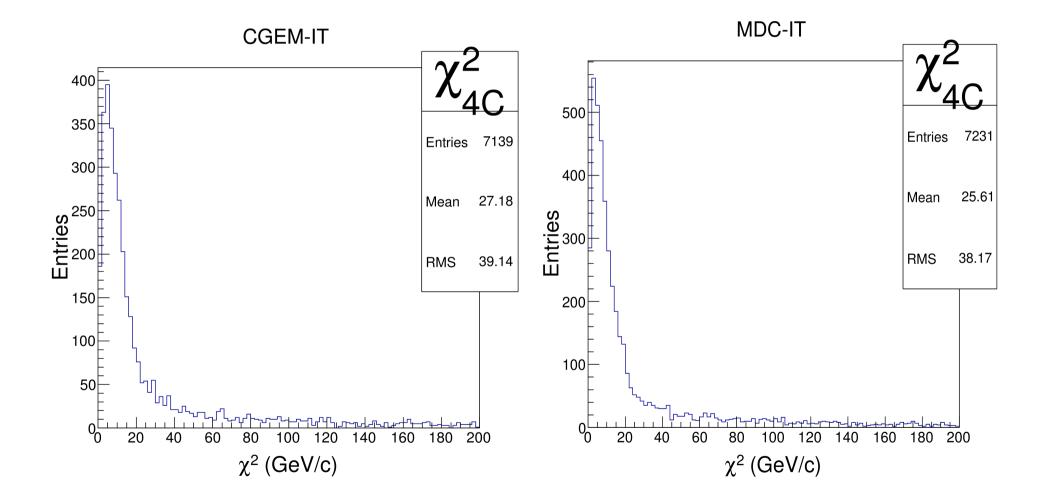
Efficiency of Pion reconstruction



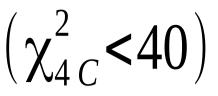
 N_4 :number of events that total 4 tracks are reconstructed correctly $N_{3,4,5}$:number of events that other 3 tracks are reconstructed correctly

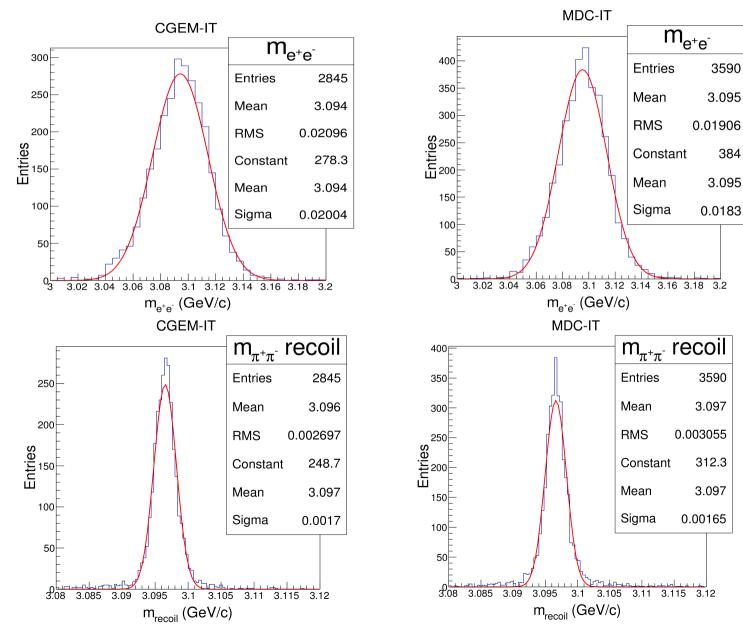


 χ^2 of 4C fitting

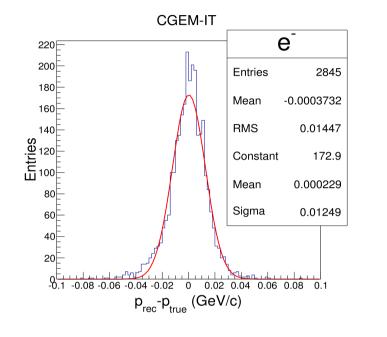


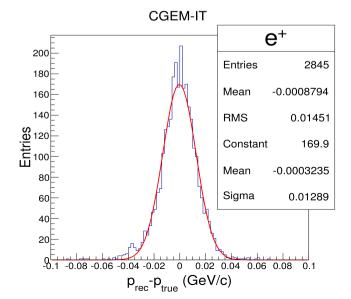
Mass Resolution $(\chi^2_{4C} < 40)$

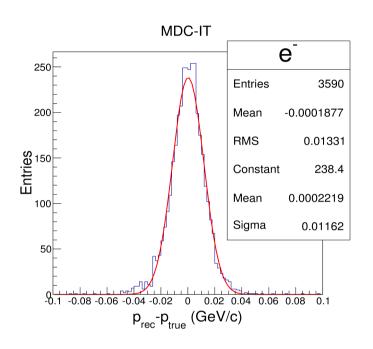


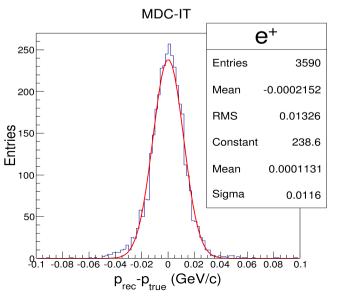


Momentum Resolution $(\chi^2_{4c} < 40)$

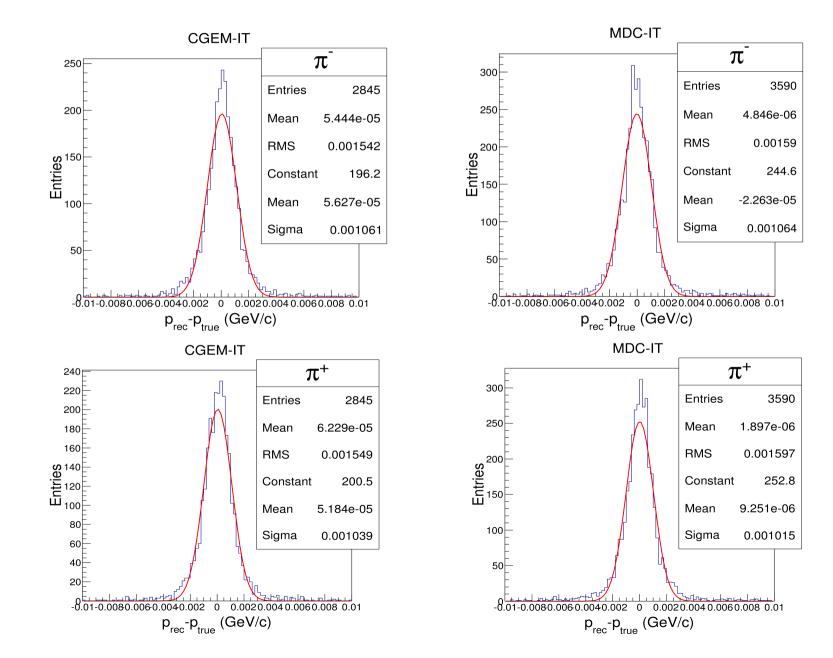








Momentum Resolution $(\chi^2_{4c} < 40)$



summary

- Reconstruction efficiency of CGEM-IT and MDC-IT is close at high momentum, but at low momentum CGEM-IT is much more lower.
- Mass resolution (J/psi) of CGEM-IT is a little worse than that of MDC-IT.
- Momentum resolution of CGEM-IT is alse a little bit worse than that of MDC-IT.