SiCalo Tracking meeting

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Update on the original code

- Separated container for EMCal, iHCal, OHCal in structure for more study in eID

- Found problem on the single gun simulation code(Did not load oHCal properly)
 -> Still need more investigation (might be problem on the ana build or something else)

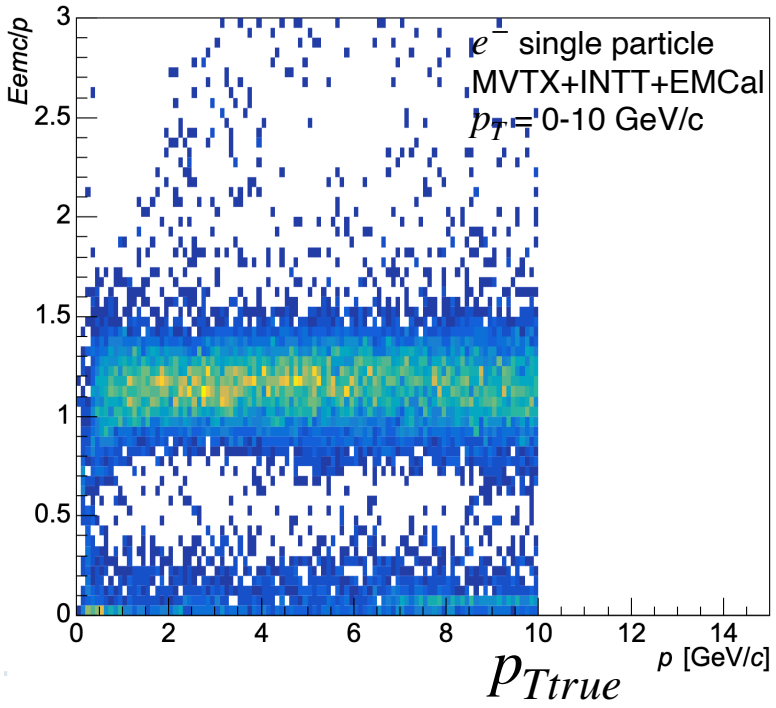
- Code is updated on GitHub already. Still more investigation/update is ongoing

- Following slides use pariclegun before bug fix

- Update
-> Trying to see more feasibility on eID with Calo analysis

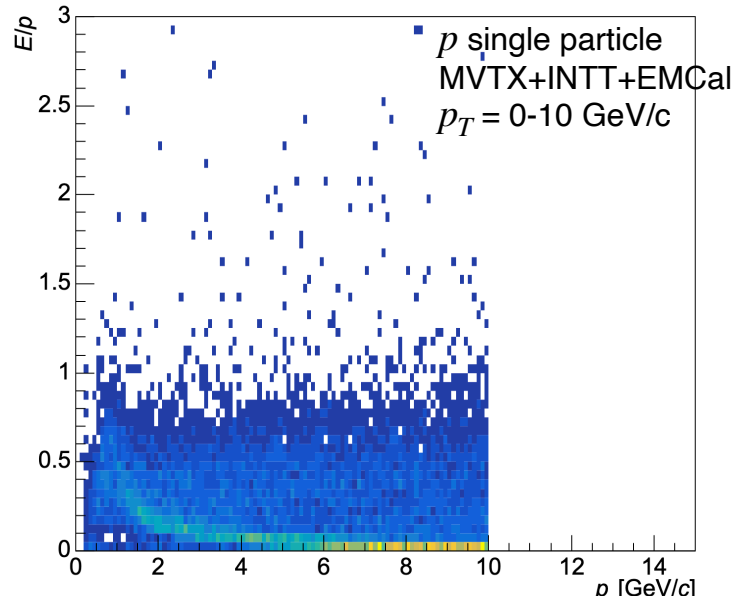
E/p difference on electron and hadrons

Eemc/p(reconstructed) vs p_{Ttrue}

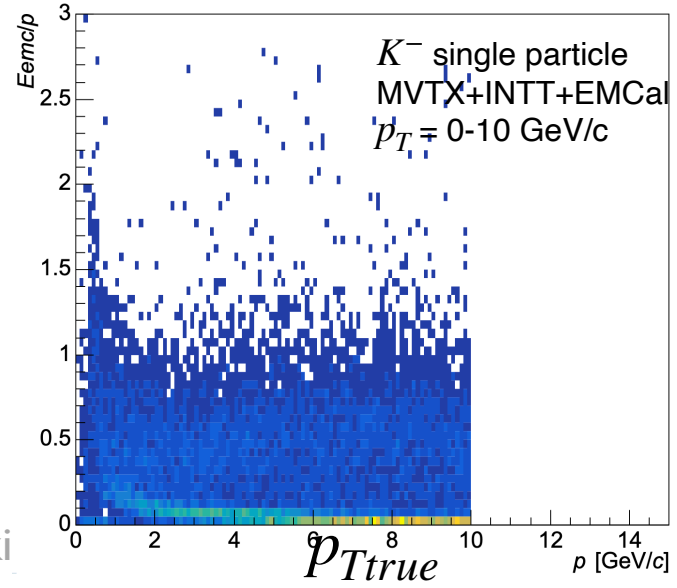


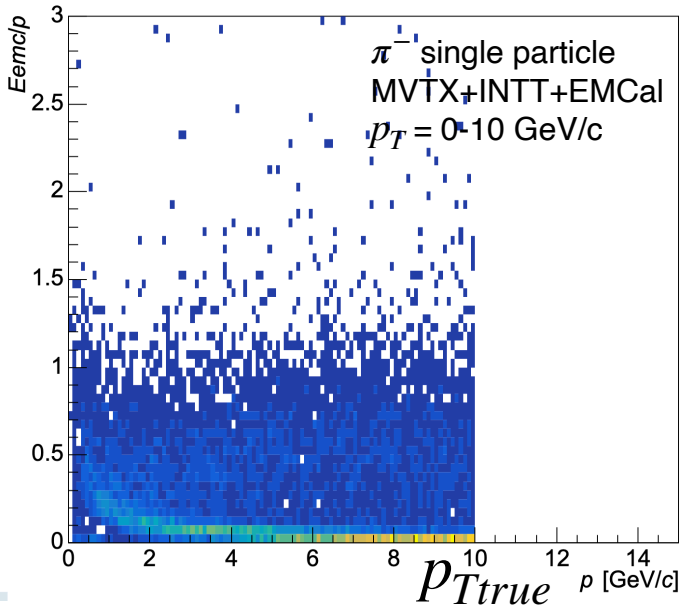
Eemc/p ~ 0.5 could be applied for eID
Trying to check other correlation for other variables

Condor is running



μ^- single particle
MVTX+INTT+EMCal
p_T = 0-10 GeV/c

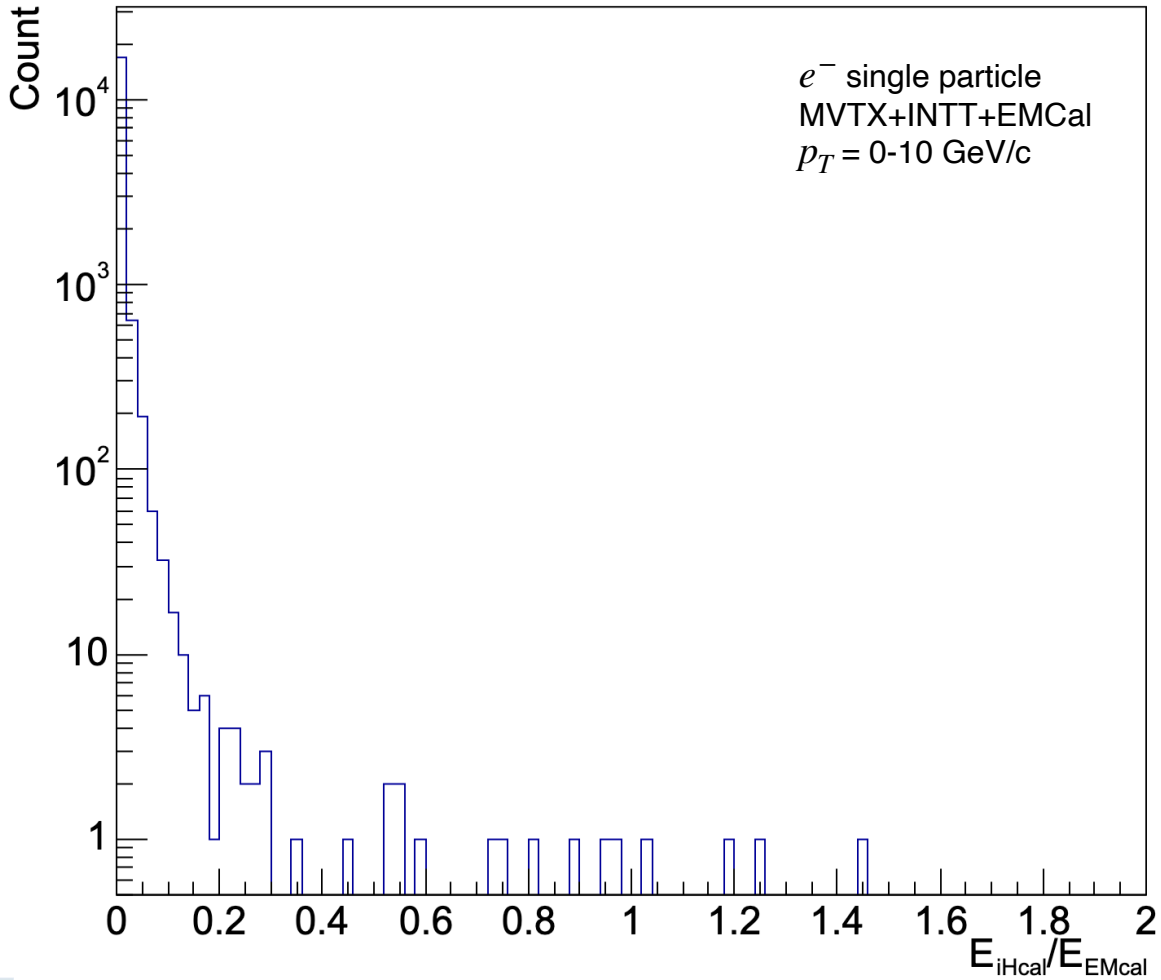


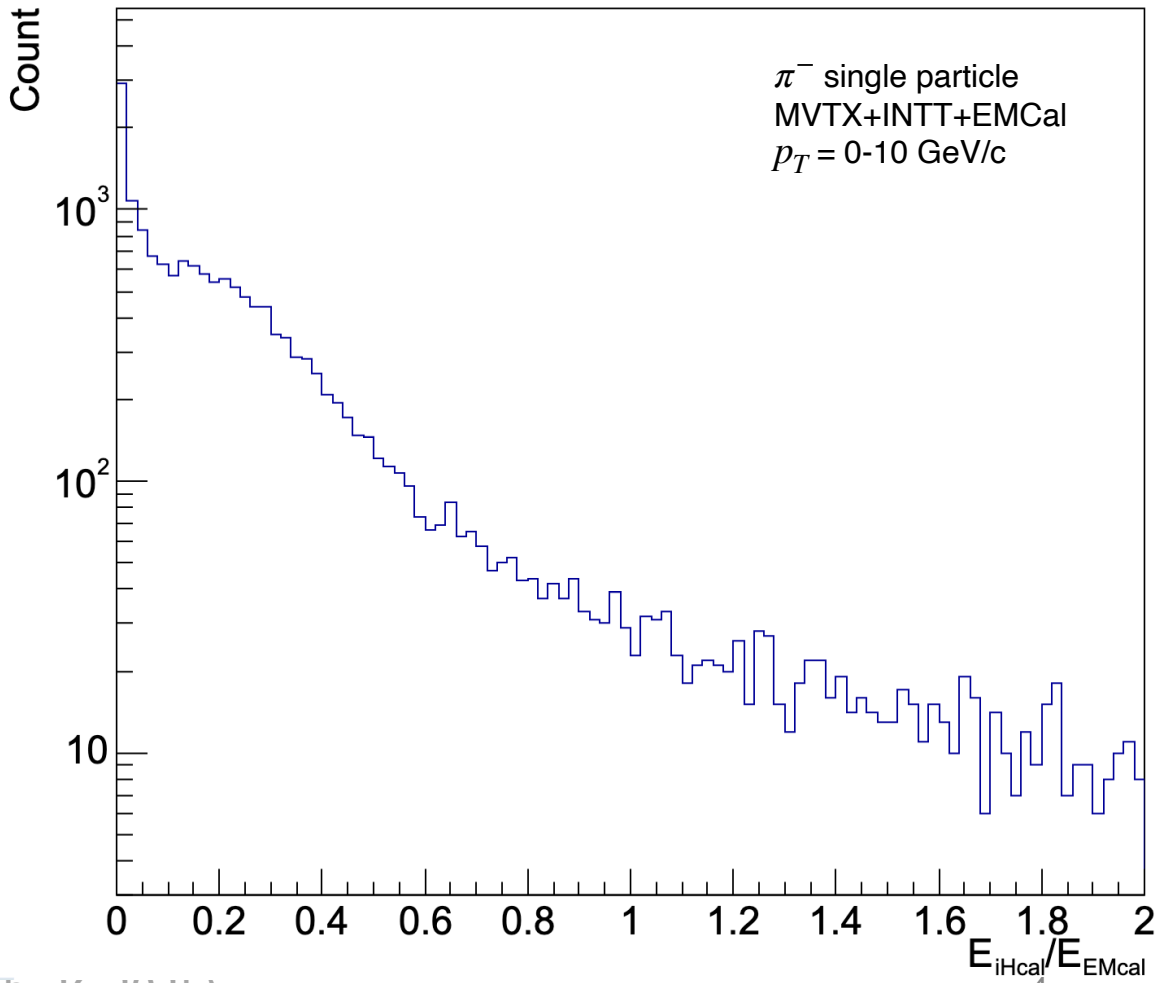


Tracki

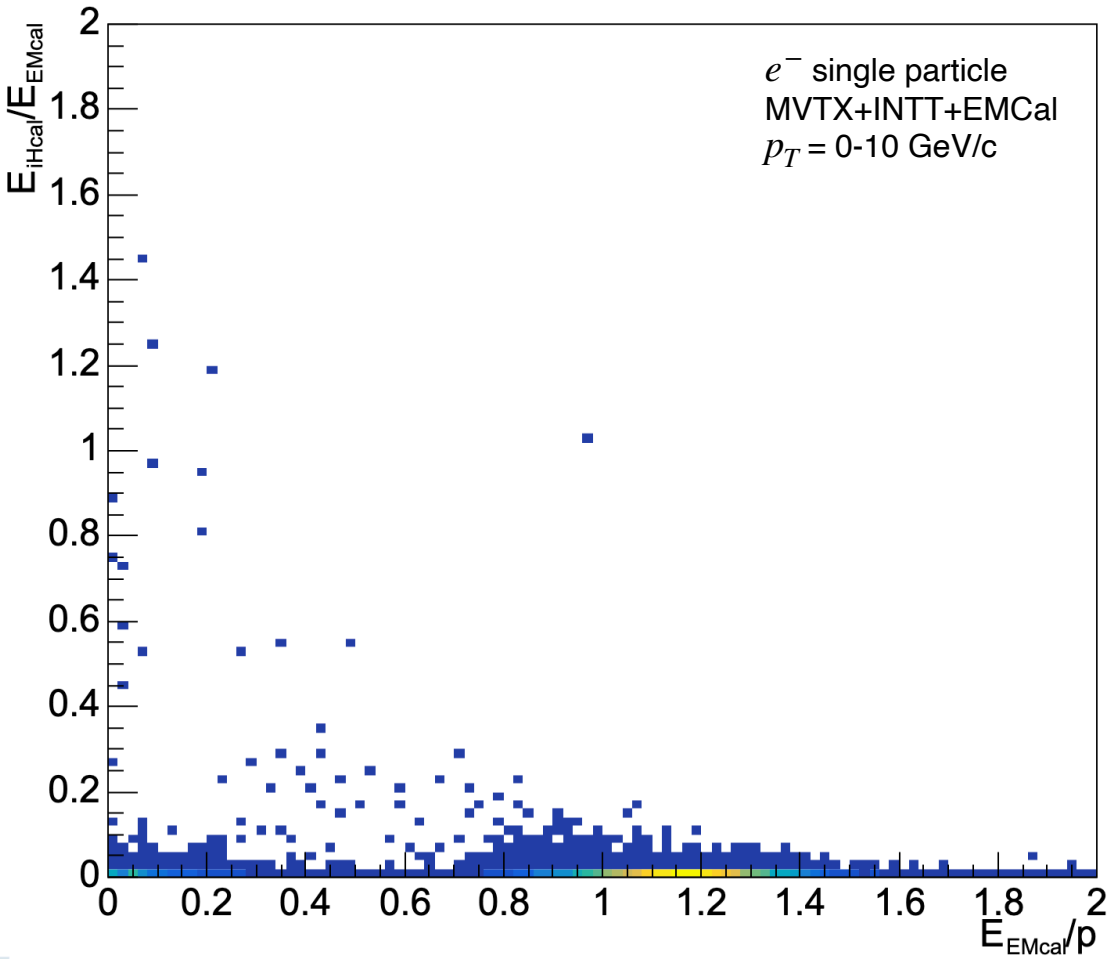
Eihcal/Eemc difference on electron and hadrons

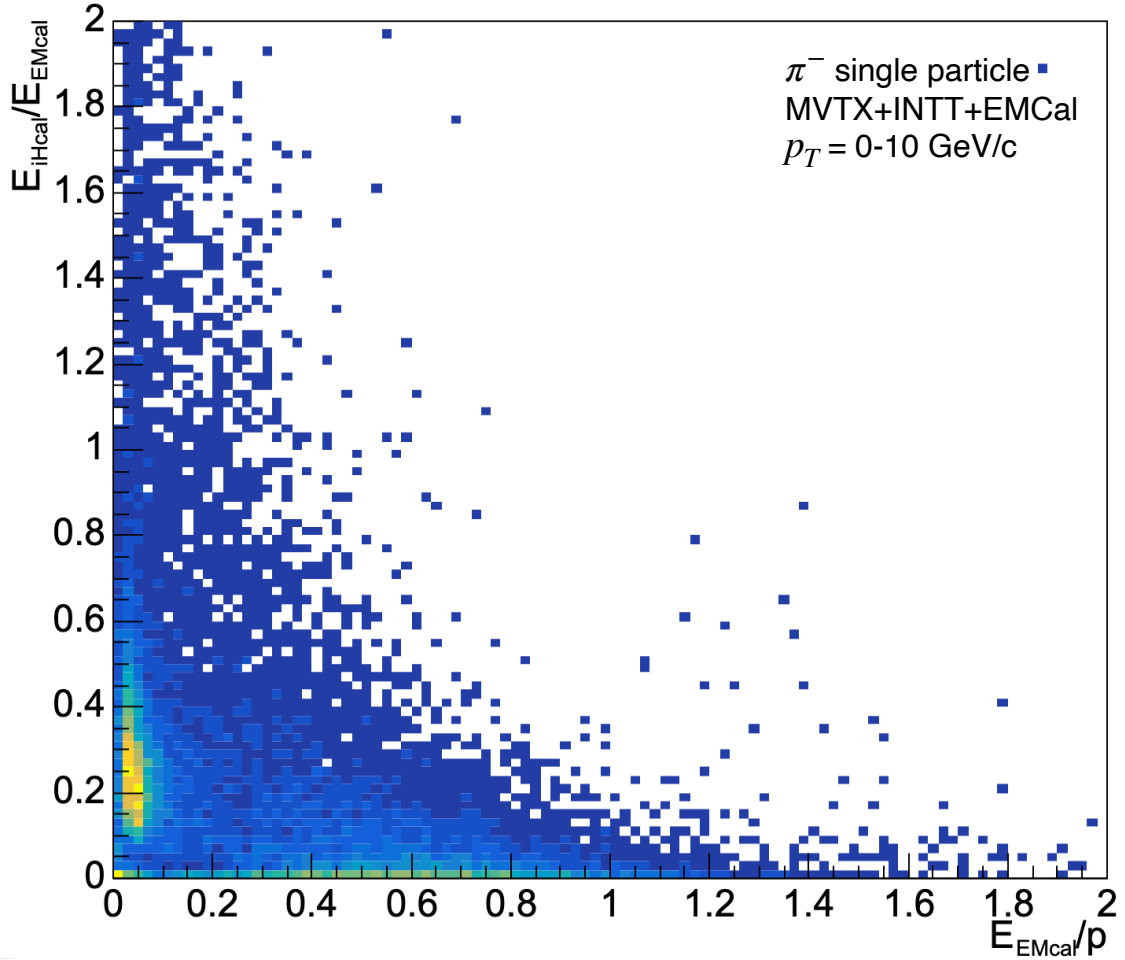
From Takuya's study, P_t - angle relation can be used for P_t correction to improved P_t resolution.





Eihcal/Eemc difference on electron and hadrons





Next step

In the EMCal,
MIP of the charged particle (pi-)
-> Energy distribution on EMCal
Fraction of pi- which punch through EMCal without energy deposited in EMCal