



Pion Electroproduction from the LD2-

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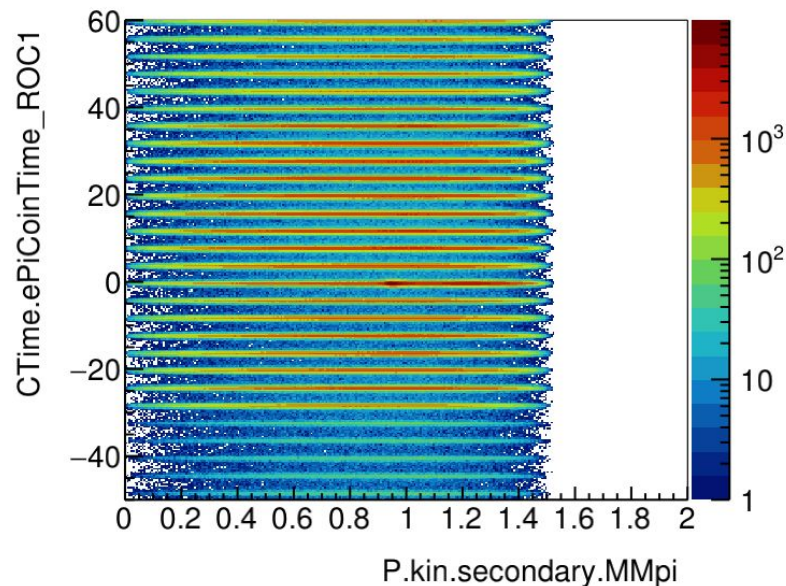
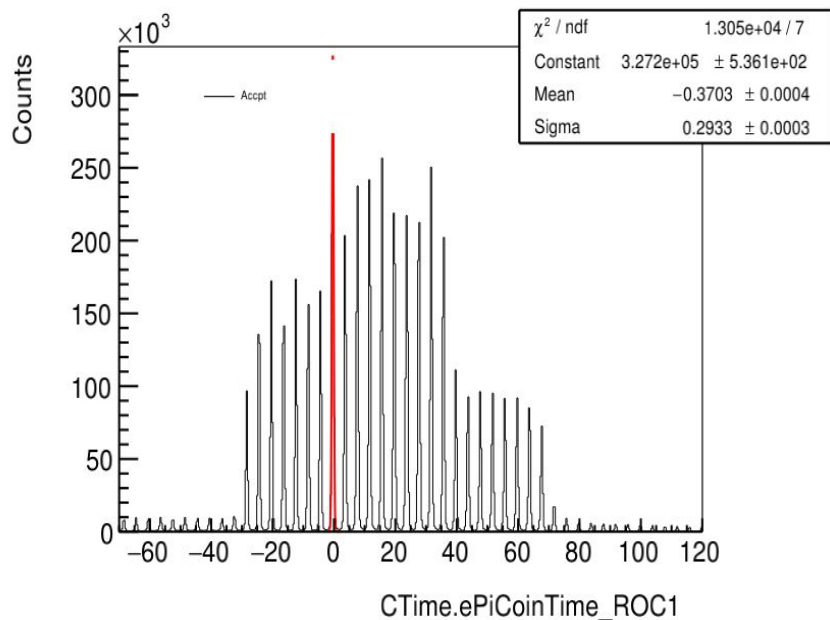
PID Study for



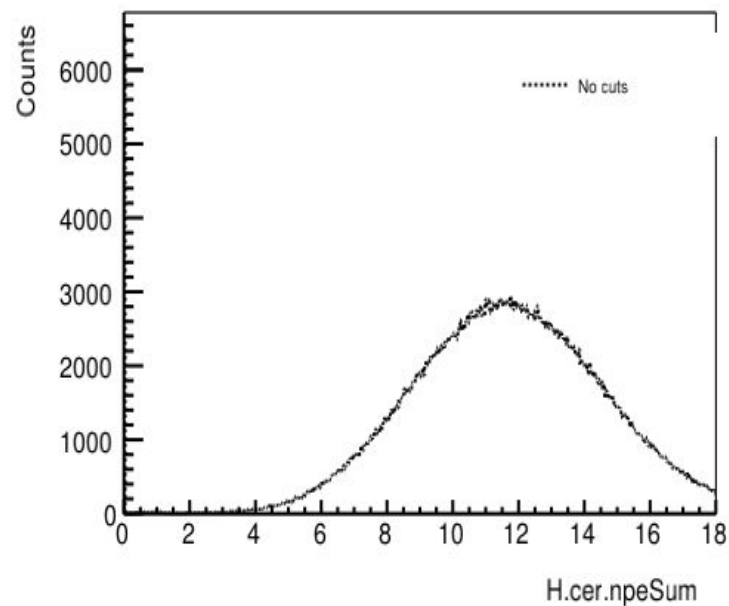
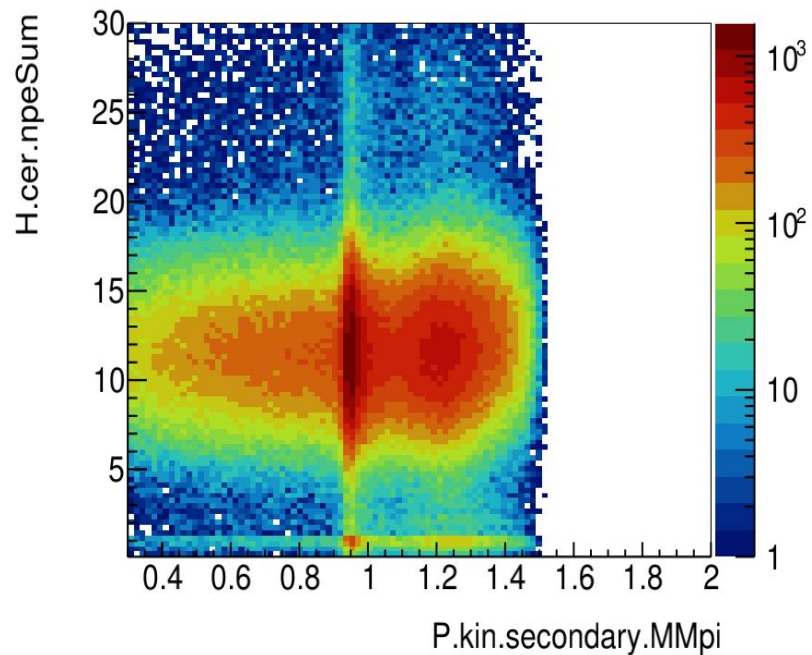
- Sitting: $Q^2=1.60$, $W=3.08$, SHMS LD2- Right angle(6.260 deg)
- Run list: {12022, 12026, 12027, 12028, 12029, 12030, 12032, 12034, 12035, 12037, 12038, 12039, 12040, 12041, 12042, 12043, 12044, 12045, 12046}

CoinTime (accept applied)

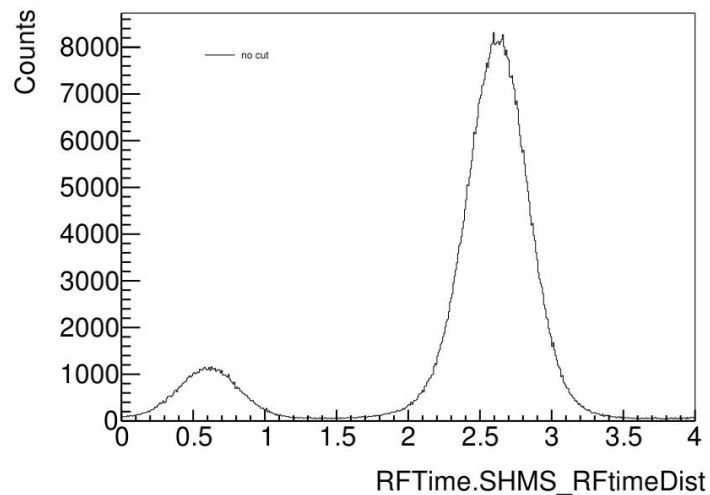
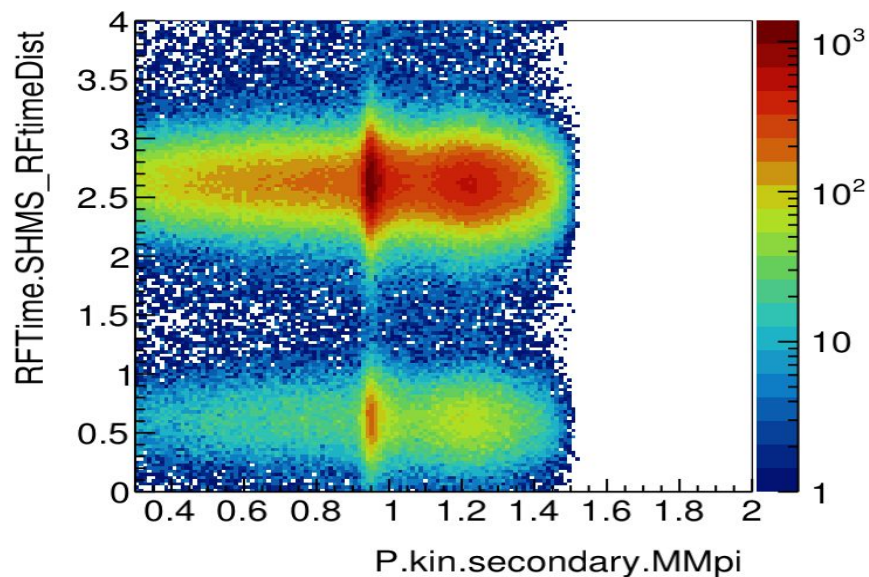
- Prompt peak within : $|\text{CoinTime}| < 2.0$



HMS: H Cer (Accep cuts + CoinTime cut)



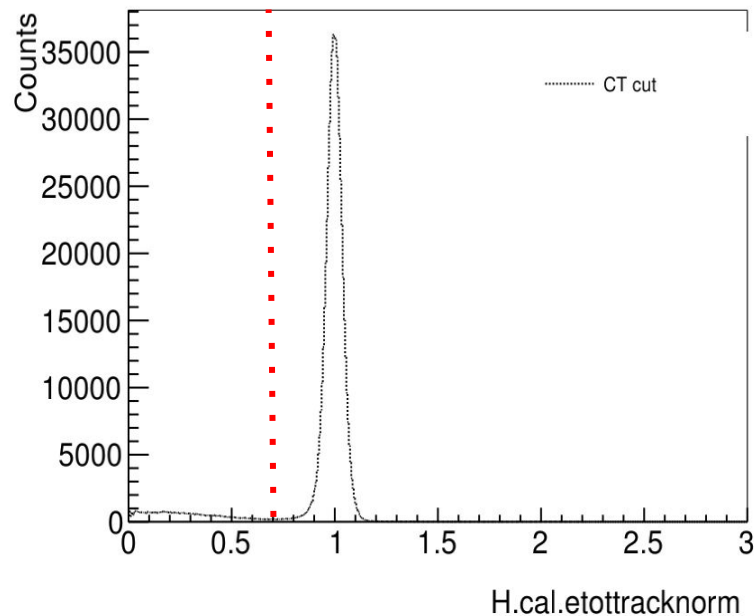
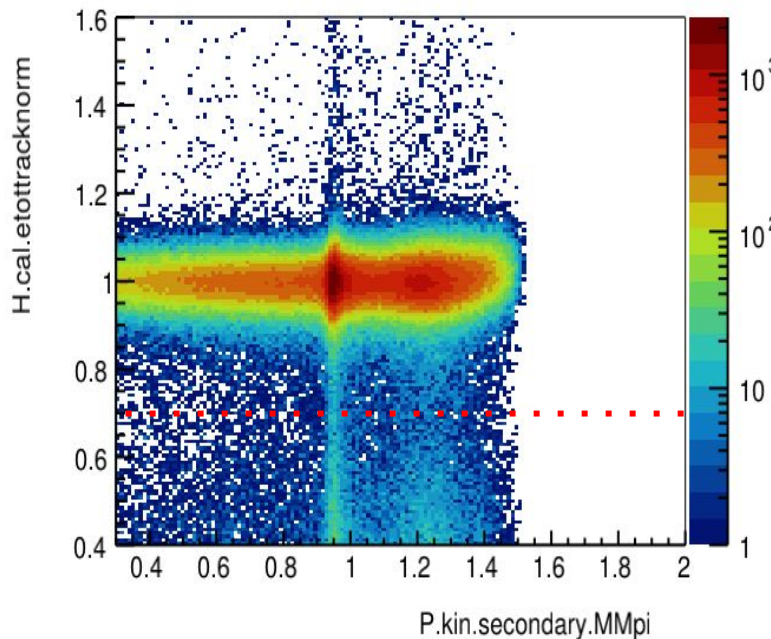
SHMS: RF Time (Accep cuts + CT cut)



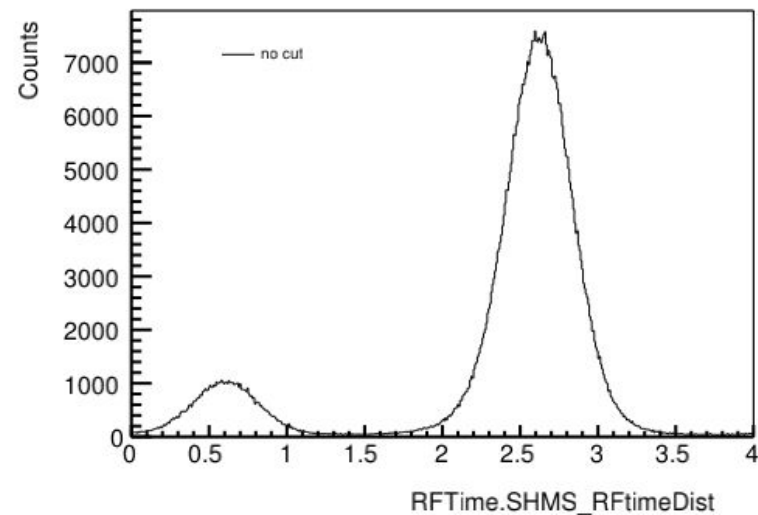
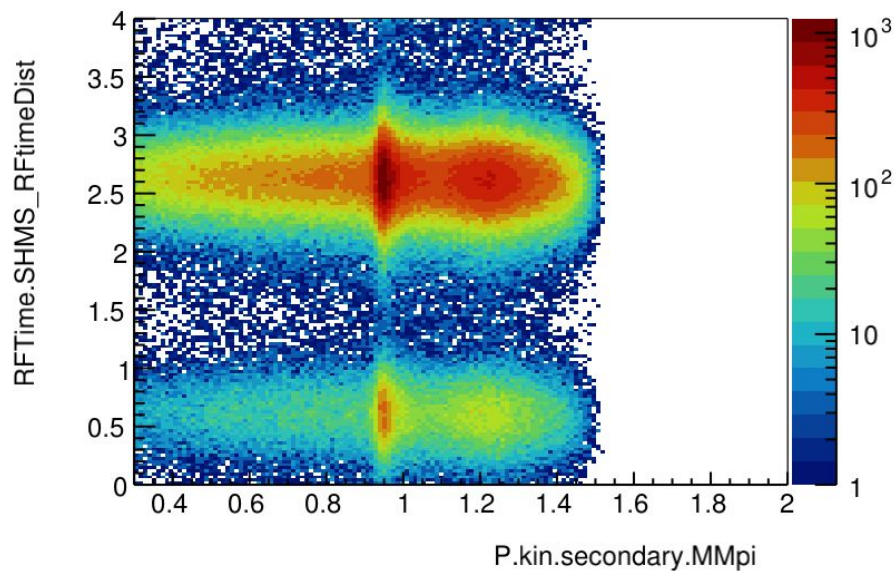
HMS: HCal (Accep cuts + CoinTime cut)



- HCal>0.7

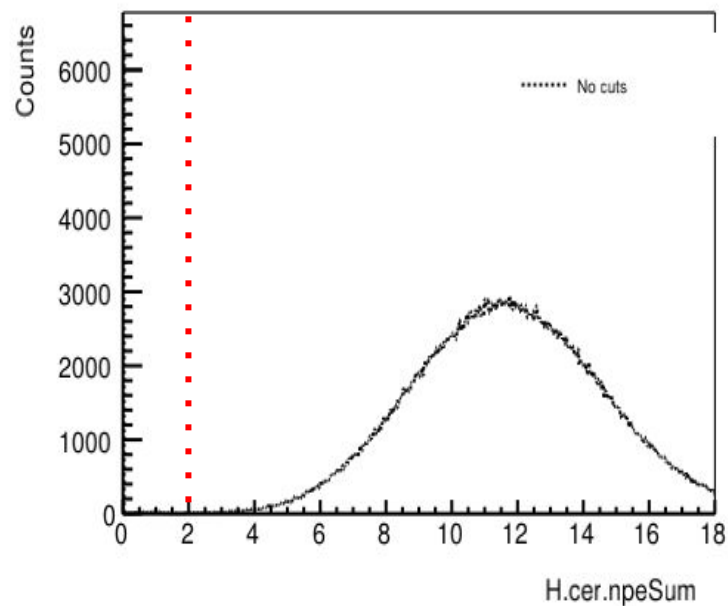
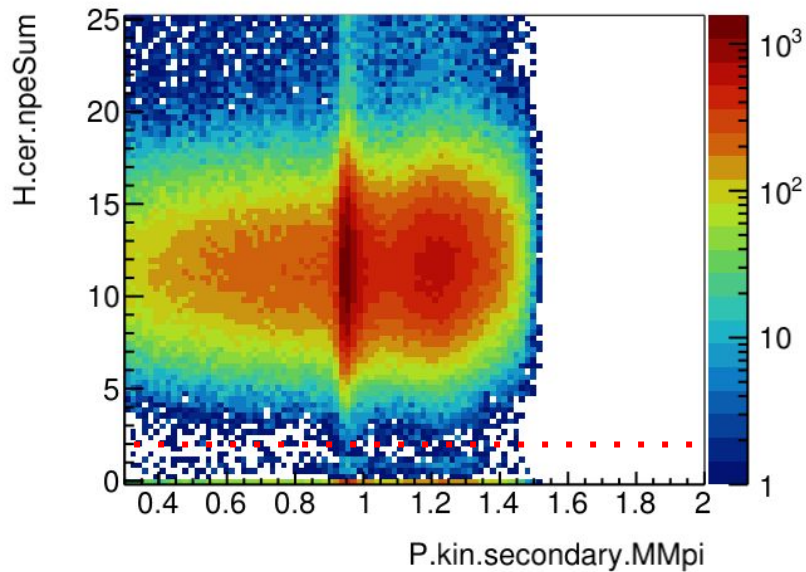


SHMS: RF Time (Accep cuts + CT + Hcal cuts)



HMS: HCer (Accep cuts + CT + Hcal cuts)

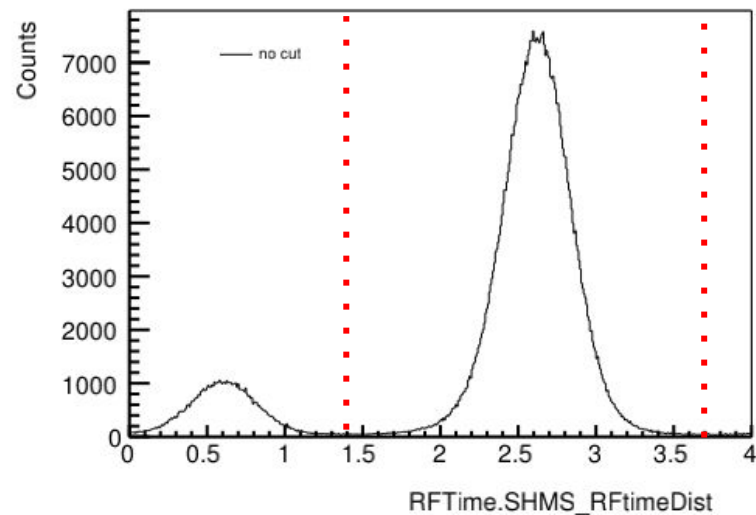
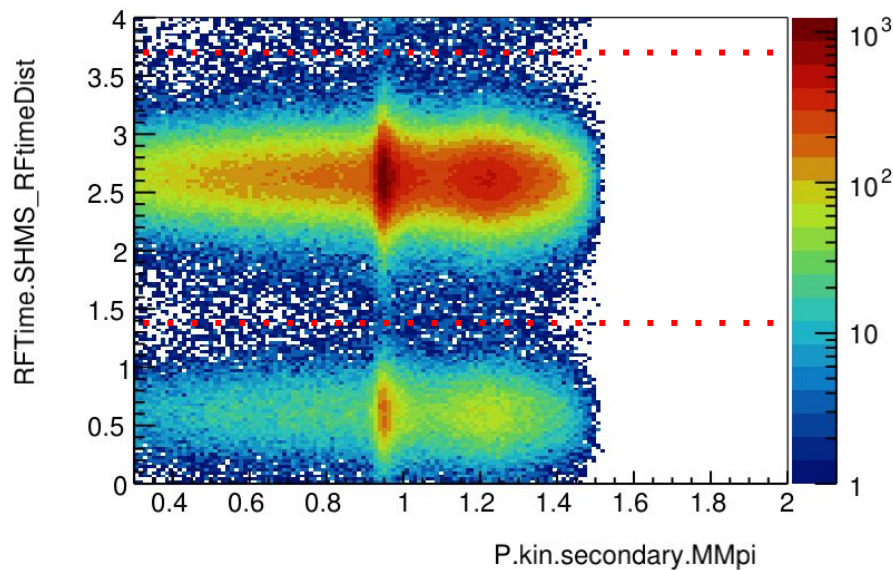
- Hcer>2.0



SHMS: RF Time (Accep + CT + Hcal+ Hcer cuts)



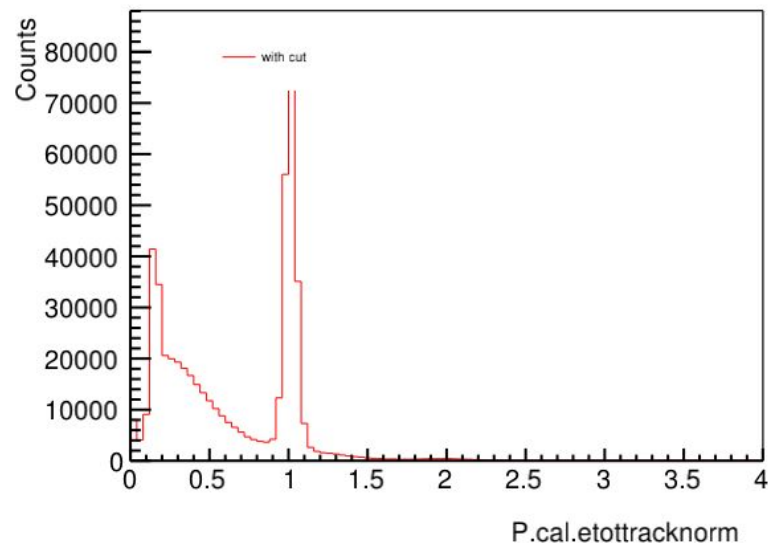
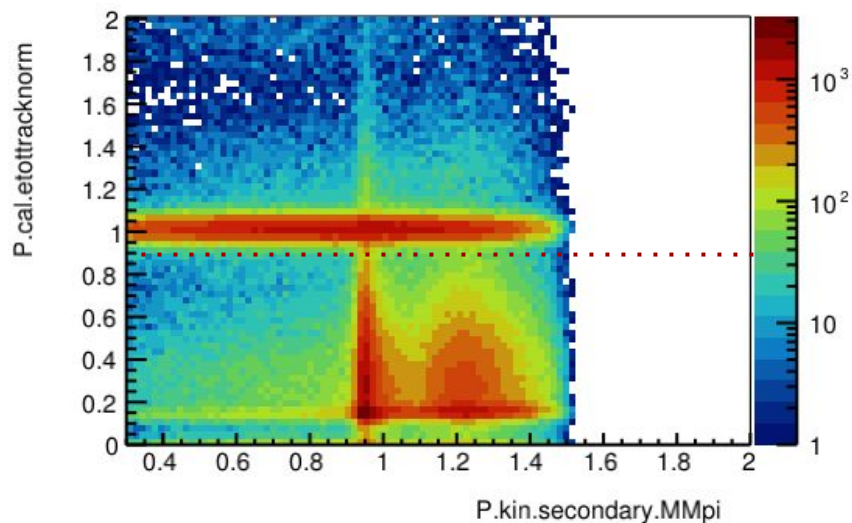
- $1.4 < \text{RF} < 3.7$



SHMS: P.Cal (Accep + CT + Hcal+ Hcer+ RF cuts)



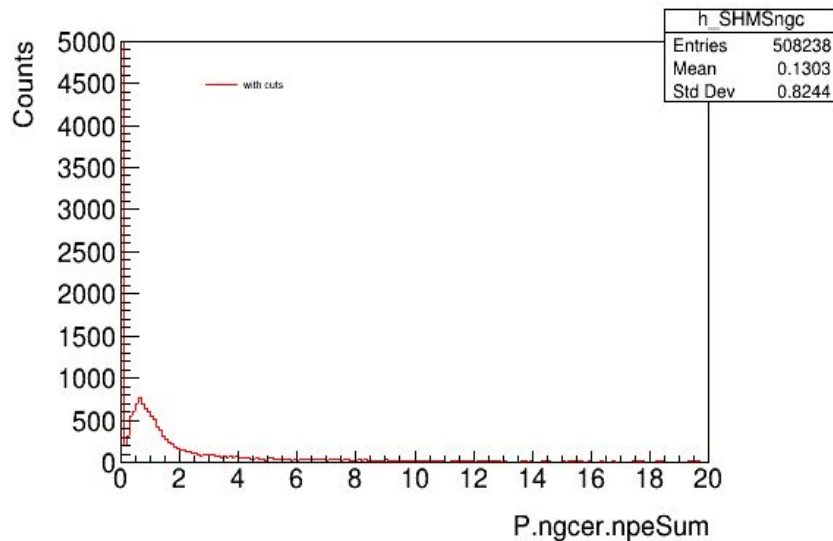
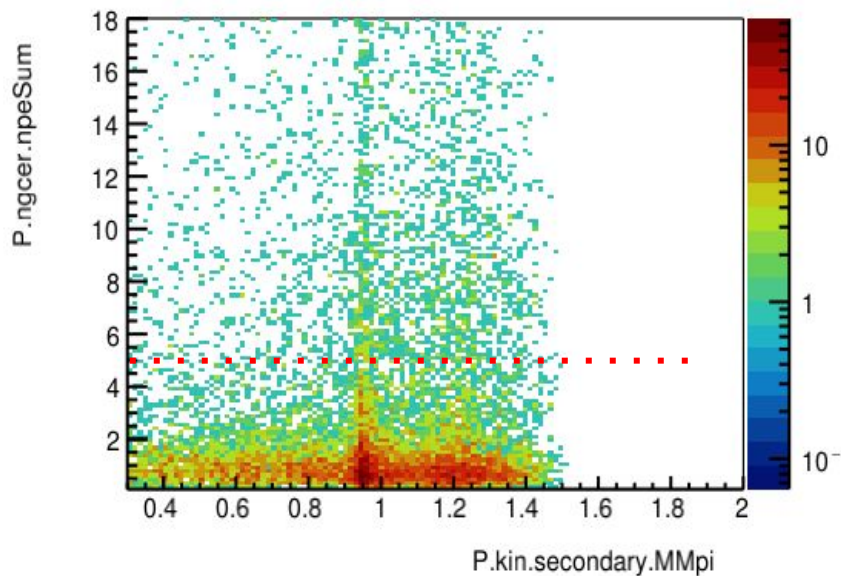
- P.Cal<0.85



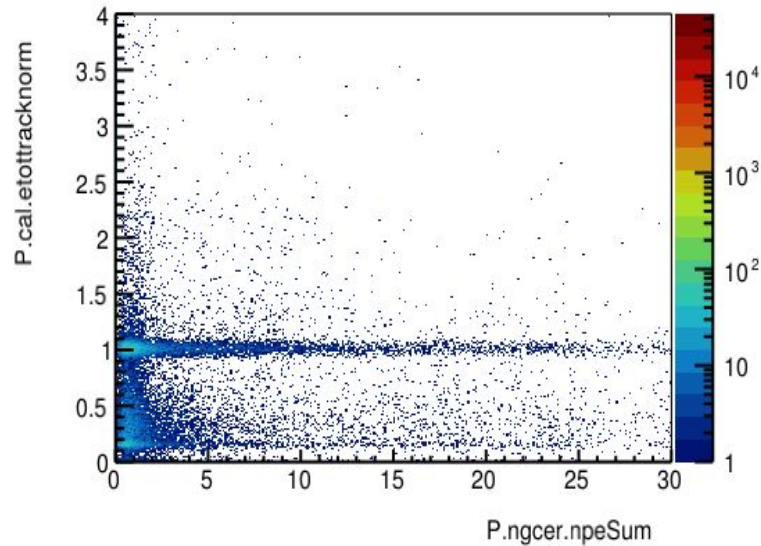
SHMS: NGC (Accep + CT + Hcal+ Hcer+ RF cuts)



- NGC<5

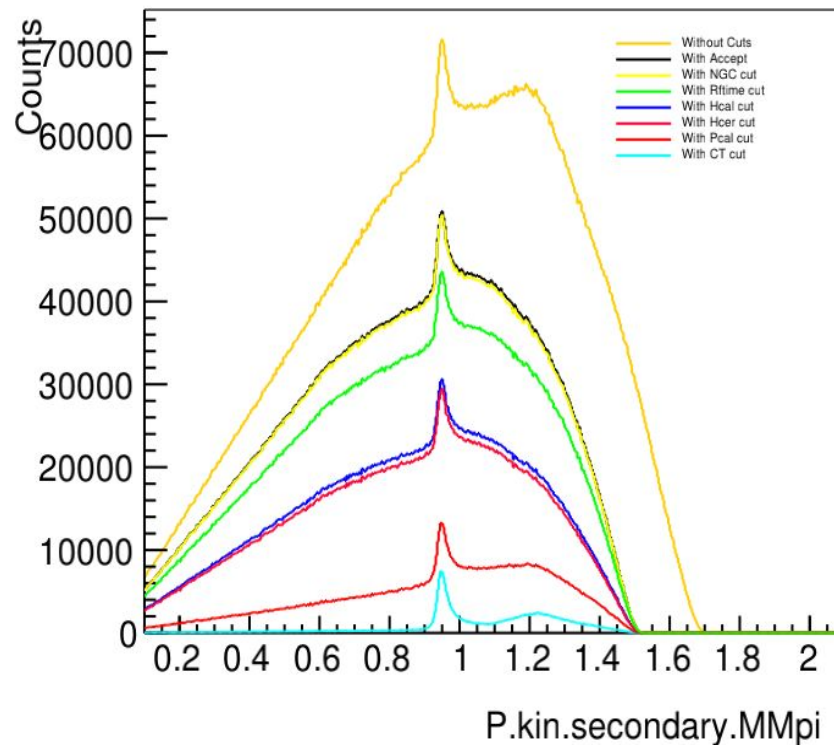


SHMS: NGC: P.Cal (Accep + CT + Hcal+ Hcer+ RF cuts)



Missing Mass with PID Cuts

- HMS: $H.cal > 0.7$, $H.cer > 2.0$
- SHMS: $P.ngcer < 5.0$, $P.cal < 0.85$
- Timing: $1.4 < RF < 3.7$, $|CoinTime| < 2.0$



Random coincidences Subtraction

