

Figure 1: Progress of  $P_{\text{Sum}}$  Max cut.

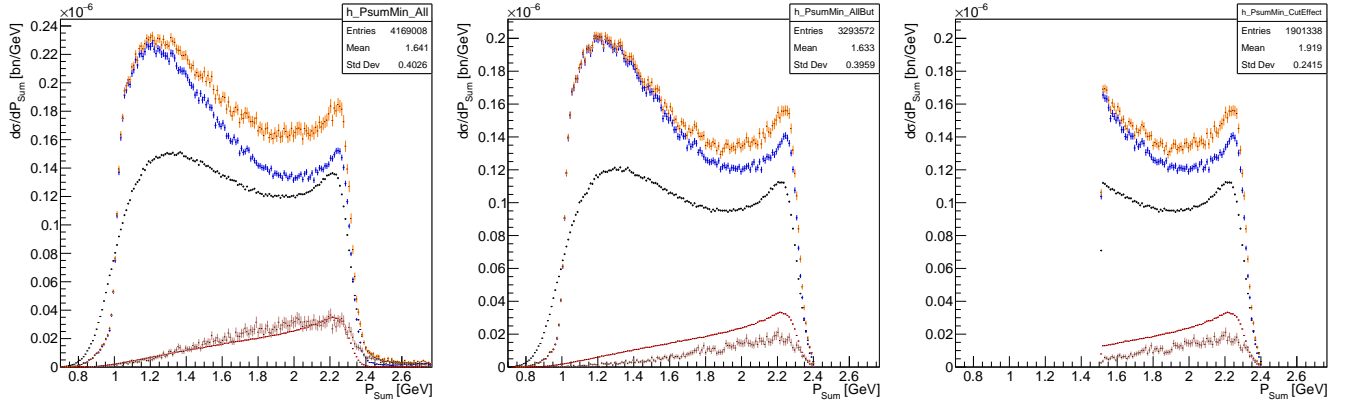


Figure 2: Progress of  $P_{\text{Sum}}$  Min cut.

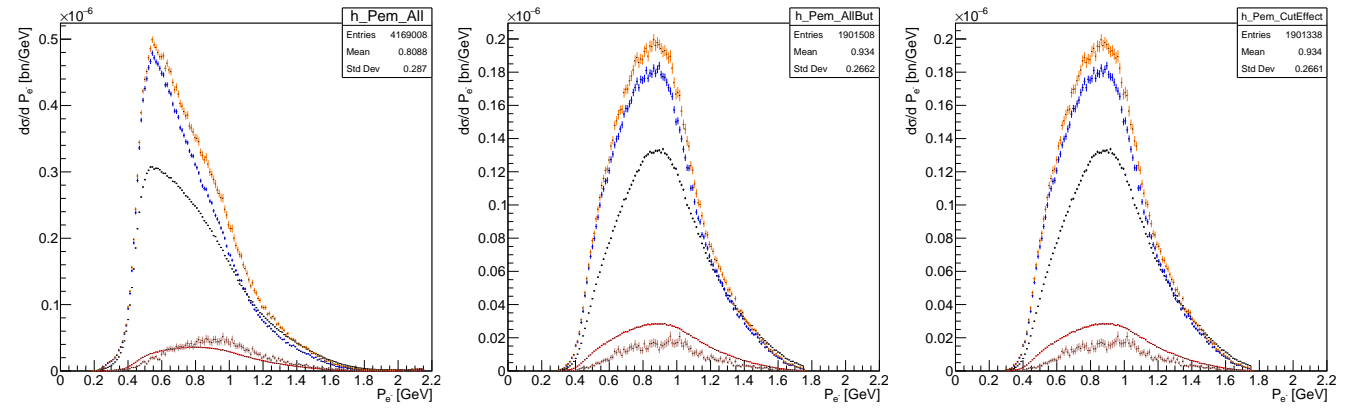


Figure 3: Progress of  $P_{e^-}$  cut.

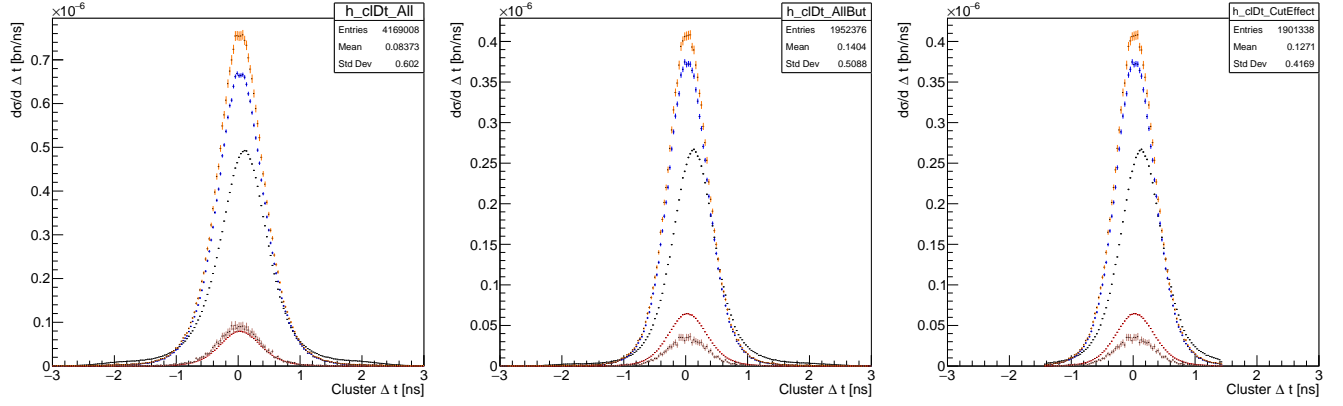


Figure 4: Progress of Cluster time difference cut.

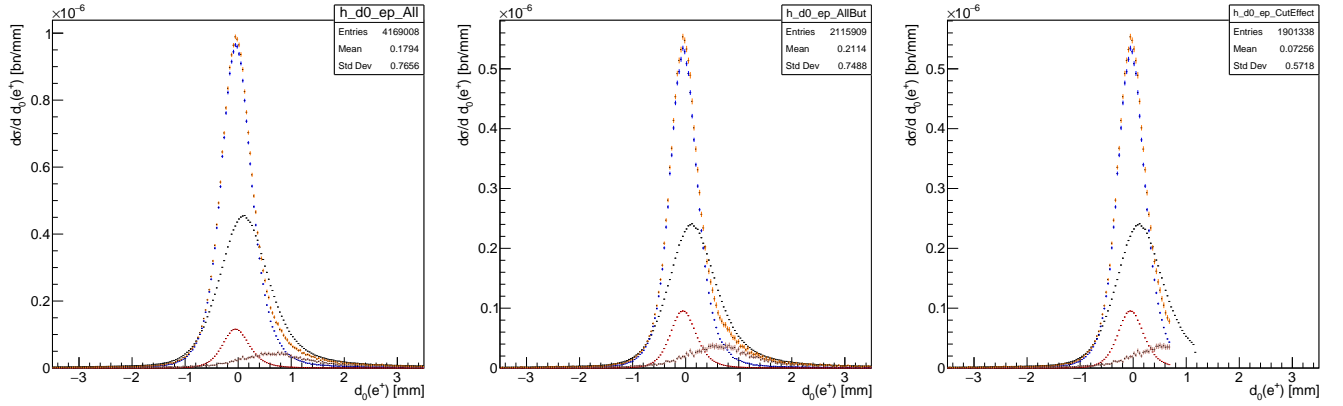


Figure 5: Progress of positron  $d_0$  cut.

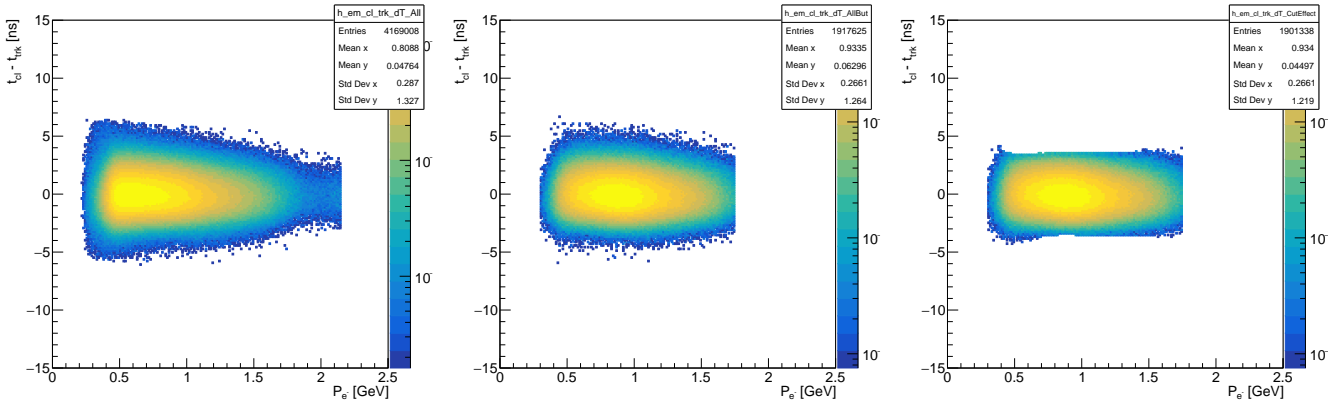


Figure 6: Electrons Data: Cluster track time difference as a function of Momentum.

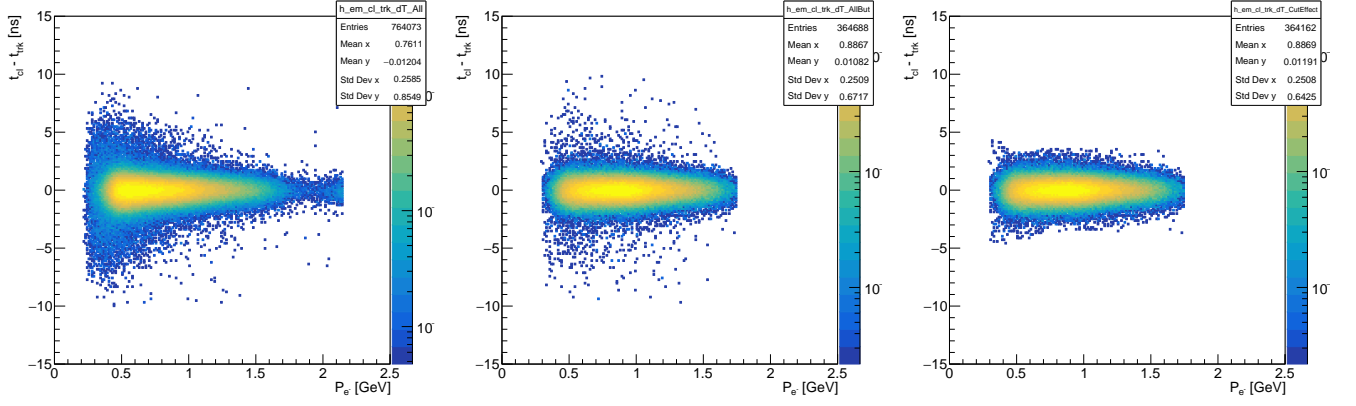


Figure 7: Electrons Tridents: Cluster track time difference as a function of Momentum.

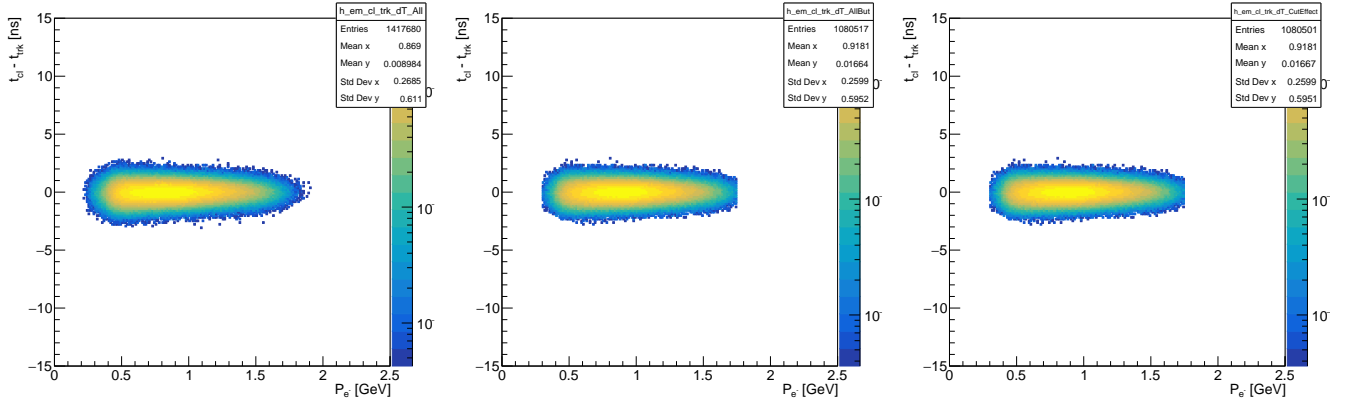


Figure 8: Electrons Rad Tridents: Cluster track time difference as a function of Momentum.

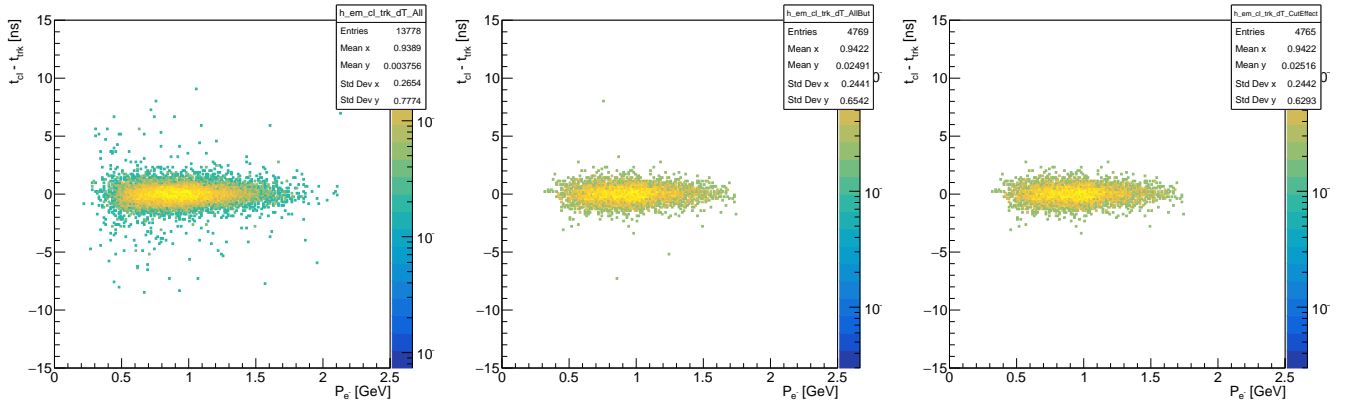


Figure 9: Electrons WABs: Cluster track time difference as a function of Momentum.

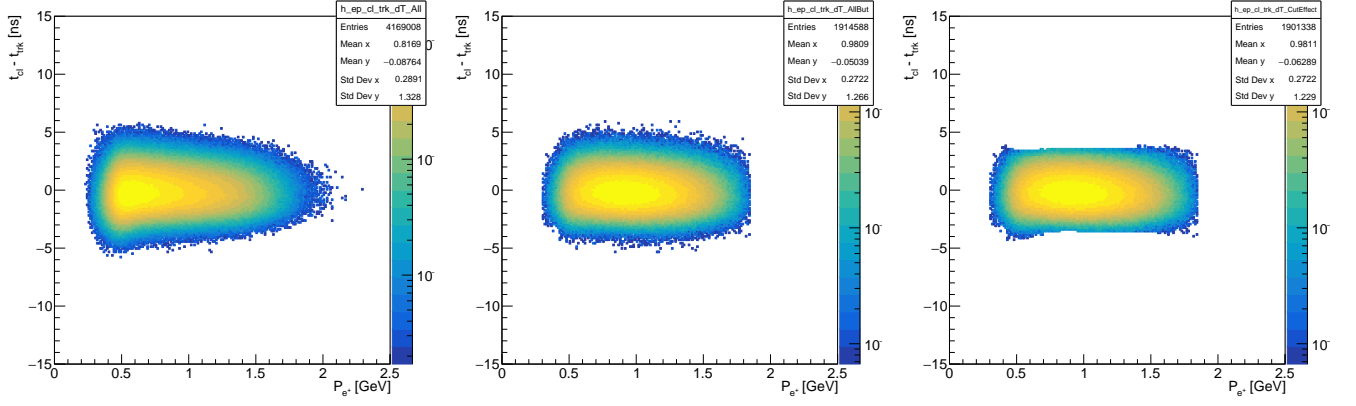


Figure 10: Positrons Data: Cluster track time difference as a function of Momentum.

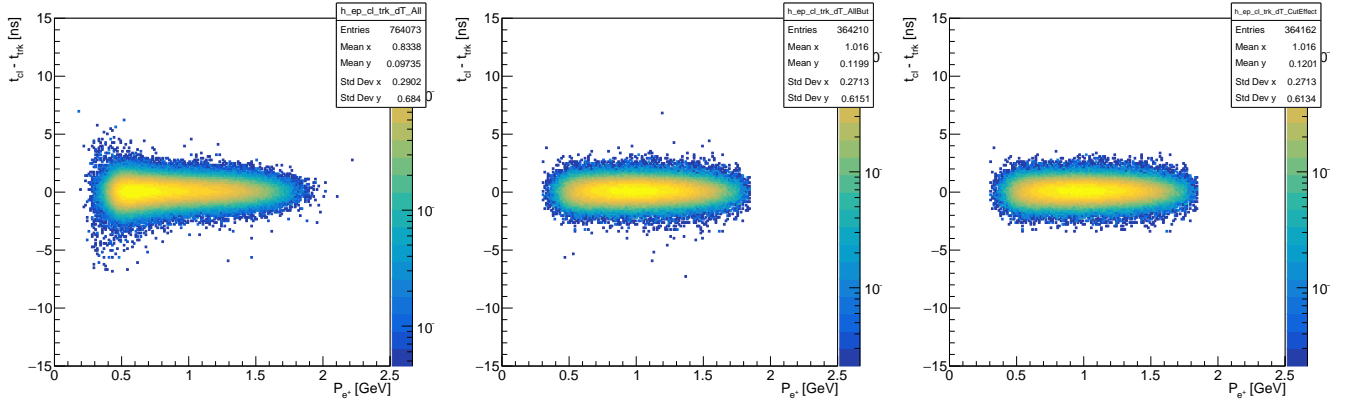


Figure 11: Positrons Tridents: Cluster track time difference as a function of Momentum.

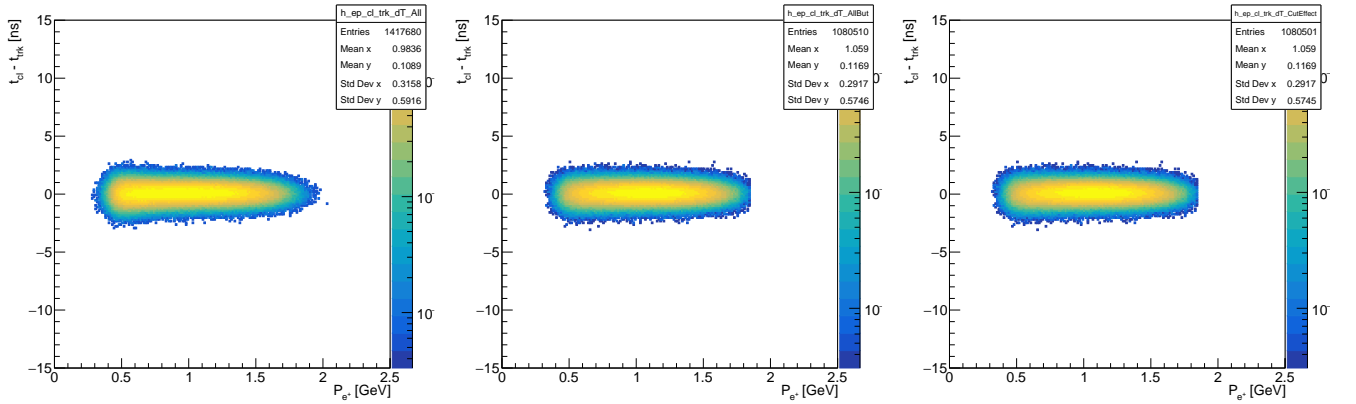


Figure 12: Positrons Rad Tridents: Cluster track time difference as a function of Momentum.

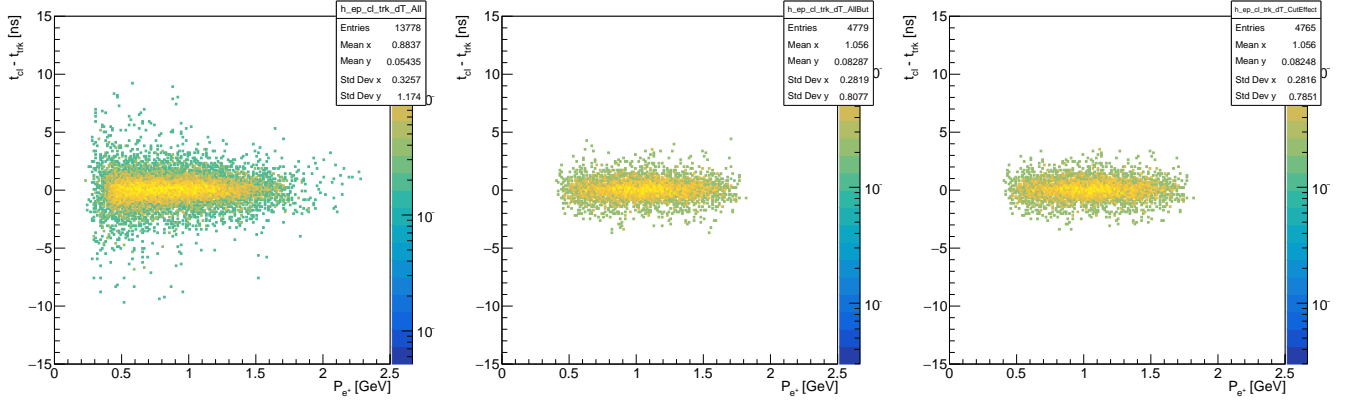


Figure 13: Positrons WABs: Cluster track time difference as a function of Momentum.

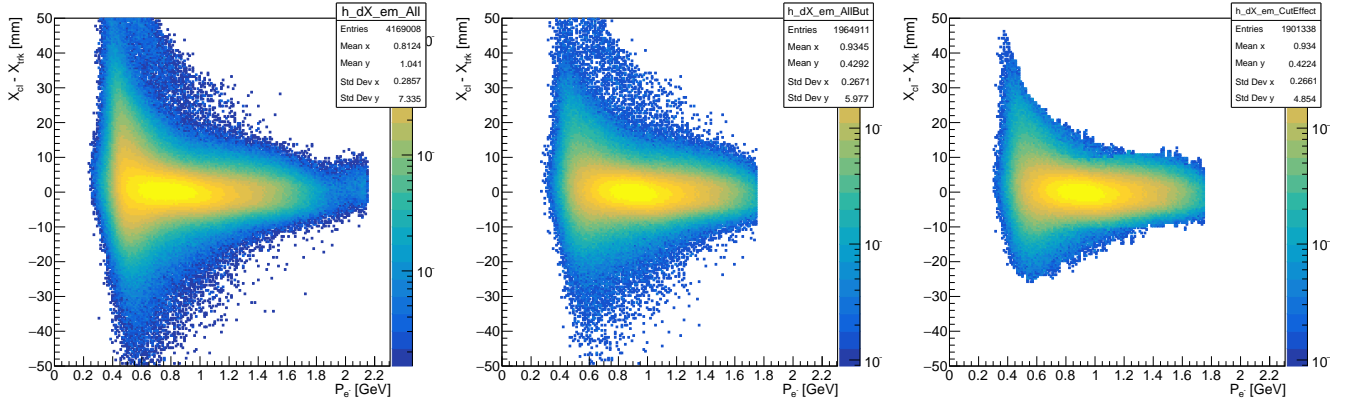


Figure 14: Electrons Data: Cluster track X coordinate difference as a function of momentum.

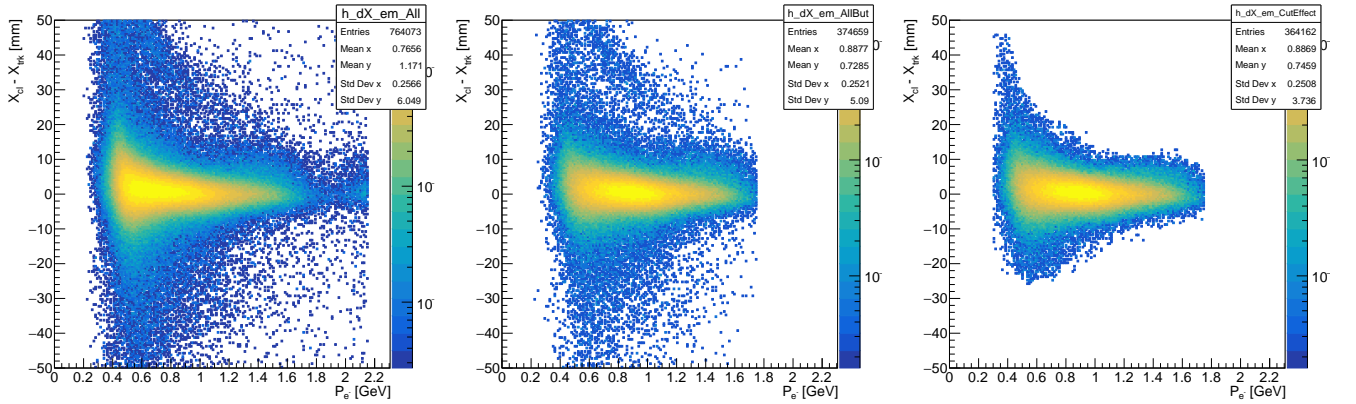


Figure 15: Electrons Tridents: Cluster track X coordinate difference as a function of momentum.

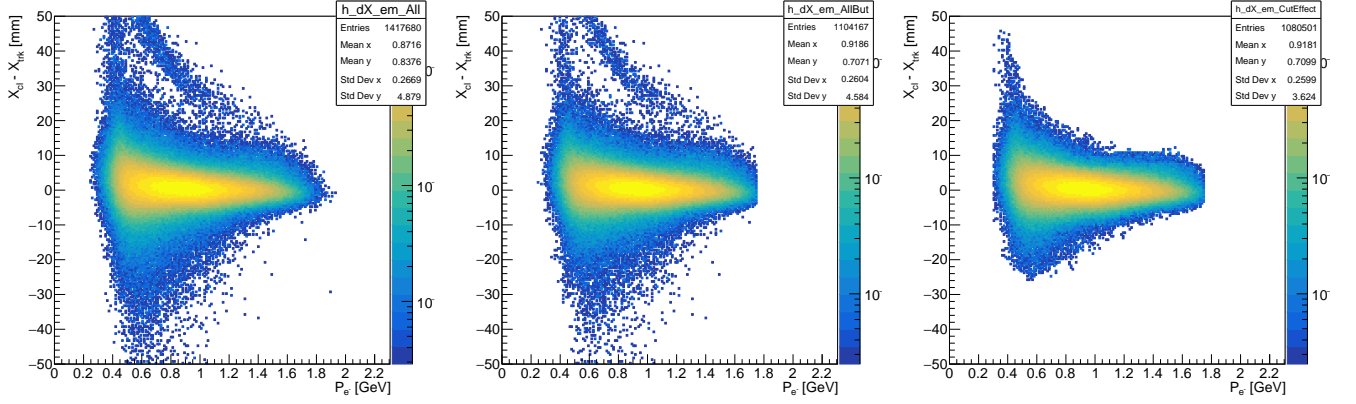


Figure 16: Electrons Rad Tridents: Cluster track X coordinate difference as a function of momentum.

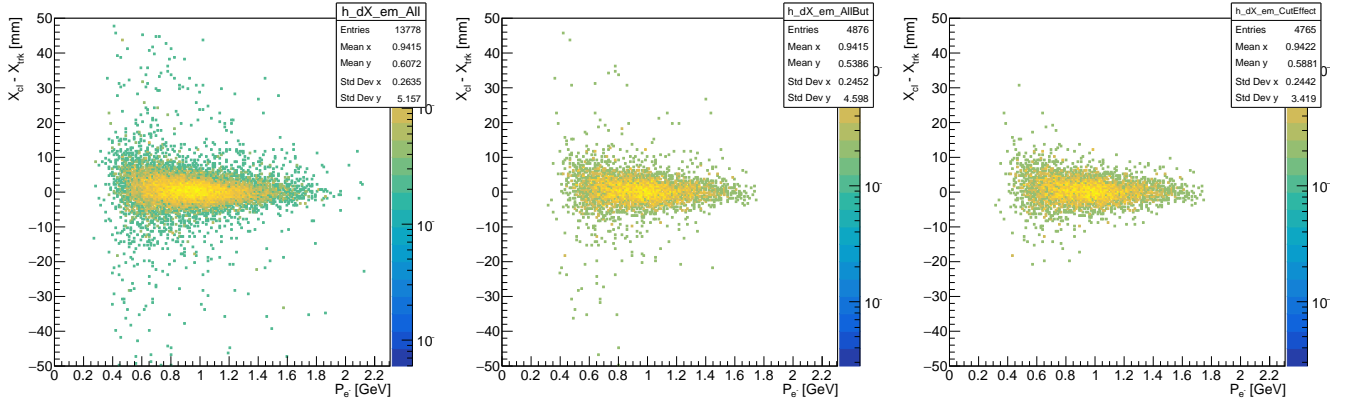


Figure 17: Positrons Rad Tridents: Cluster track X coordinate difference as a function of momentum.

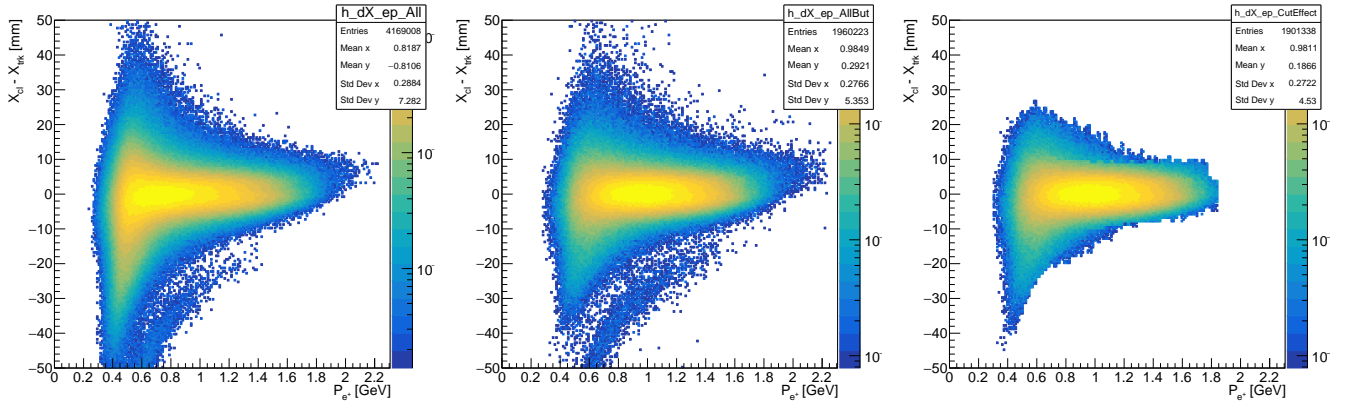


Figure 18: Positrons Data: Cluster track X coordinate difference as a function of momentum.

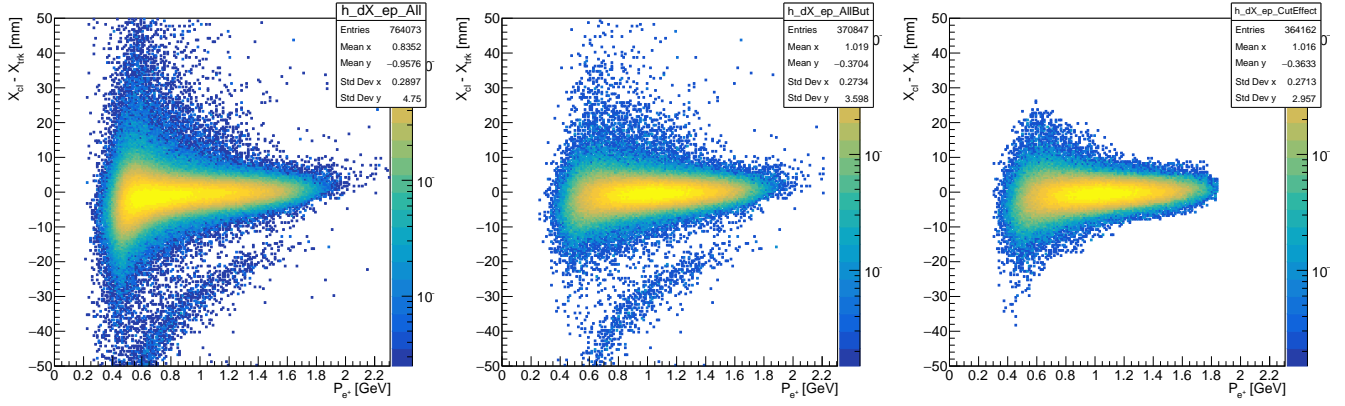


Figure 19: Positrons Tridents: Cluster track X coordinate difference as a function of momentum.

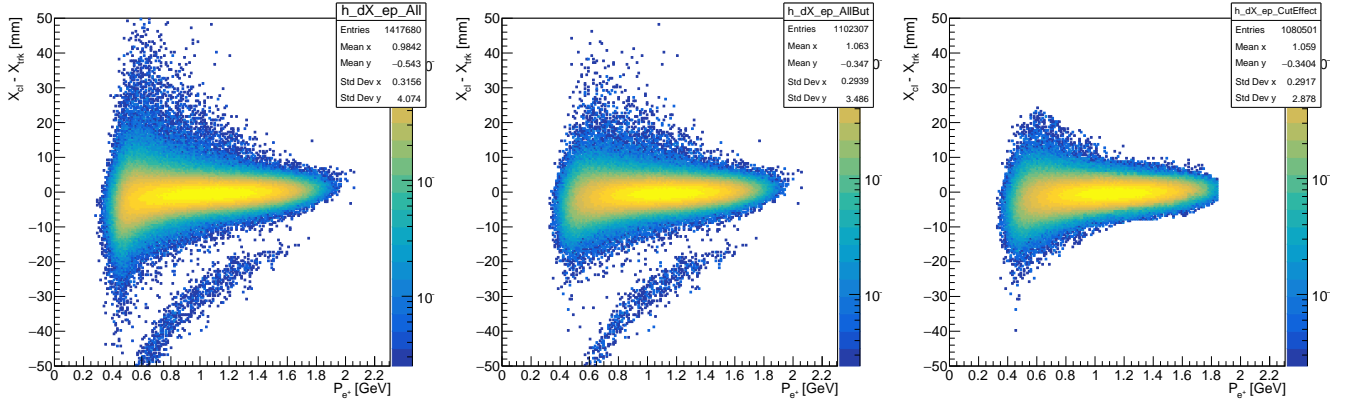


Figure 20: Positrons Rad Tridents: Cluster track X coordinate difference as a function of momentum.

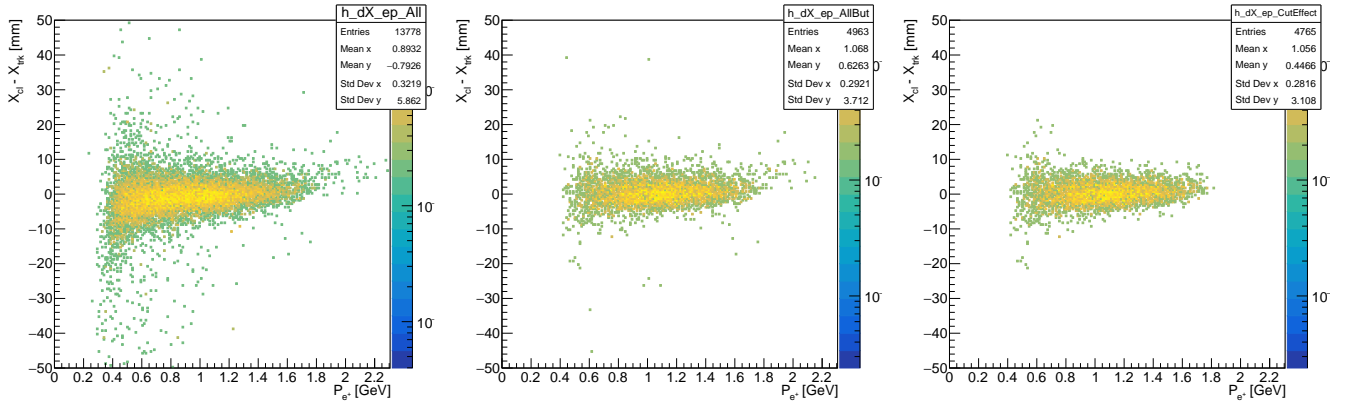


Figure 21: Positrons Rad Tridents: Cluster track X coordinate difference as a function of momentum.



# 1 PSum comparison for different mass bins

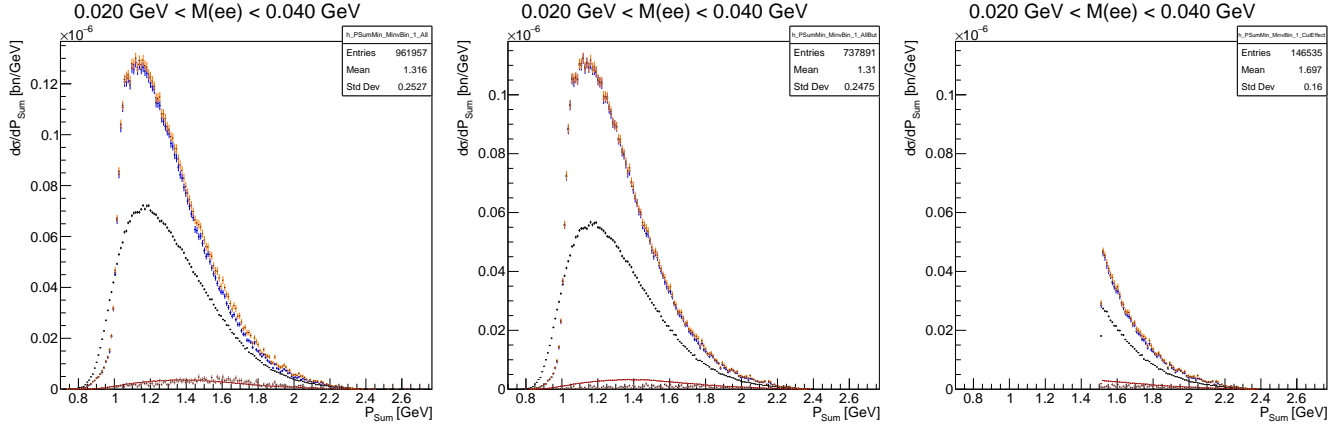


Figure 22: Progress of  $P_{\text{Sum}}$  Min cut, for the  $20 \text{ MeV} < M(ee) < 40 \text{ MeV}$

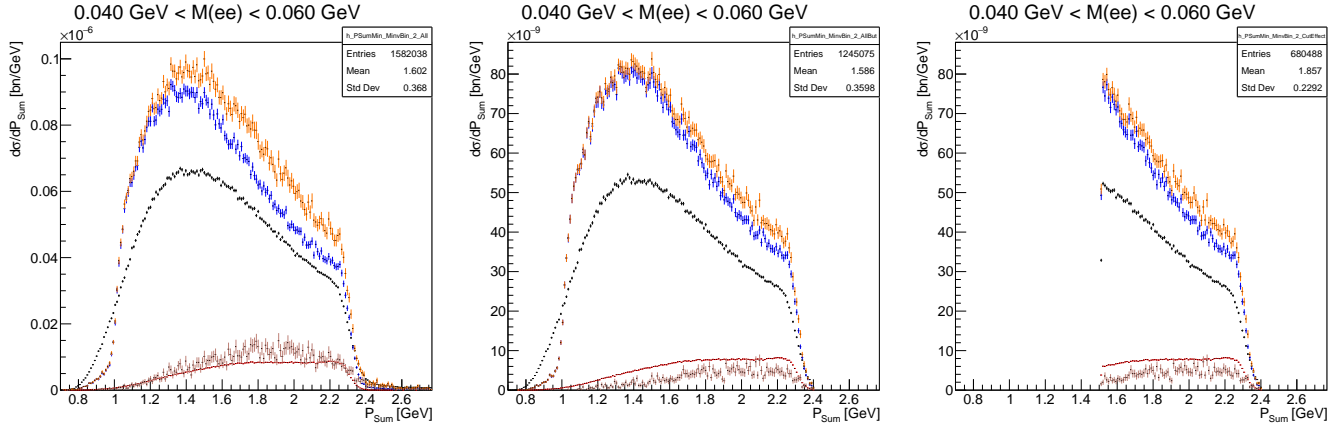


Figure 23: Progress of  $P_{\text{Sum}}$  Min cut, for the  $40 \text{ MeV} < M(ee) < 60 \text{ MeV}$



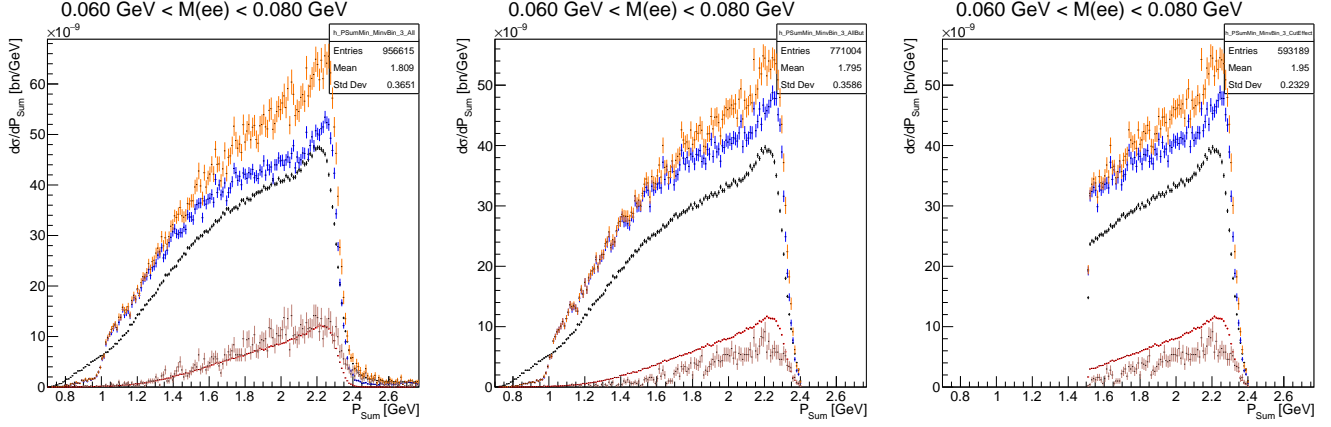


Figure 24: Progress of  $P_{\text{Sum}}$  Min cut, for the  $60 \text{ MeV} < M(ee) < 80 \text{ MeV}$

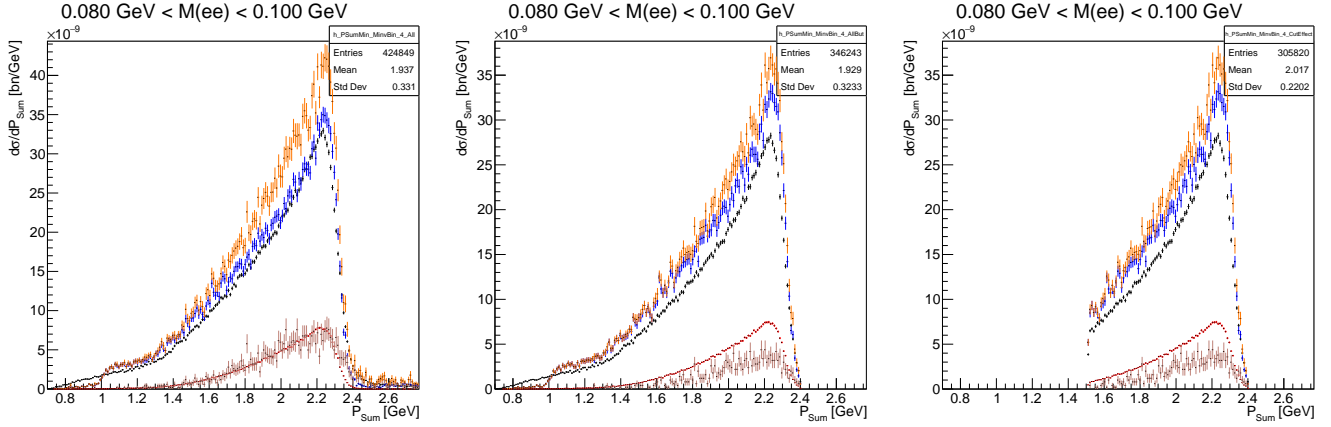


Figure 25: Progress of  $P_{\text{Sum}}$  Min cut, for the  $80 \text{ MeV} < M(ee) < 100 \text{ MeV}$

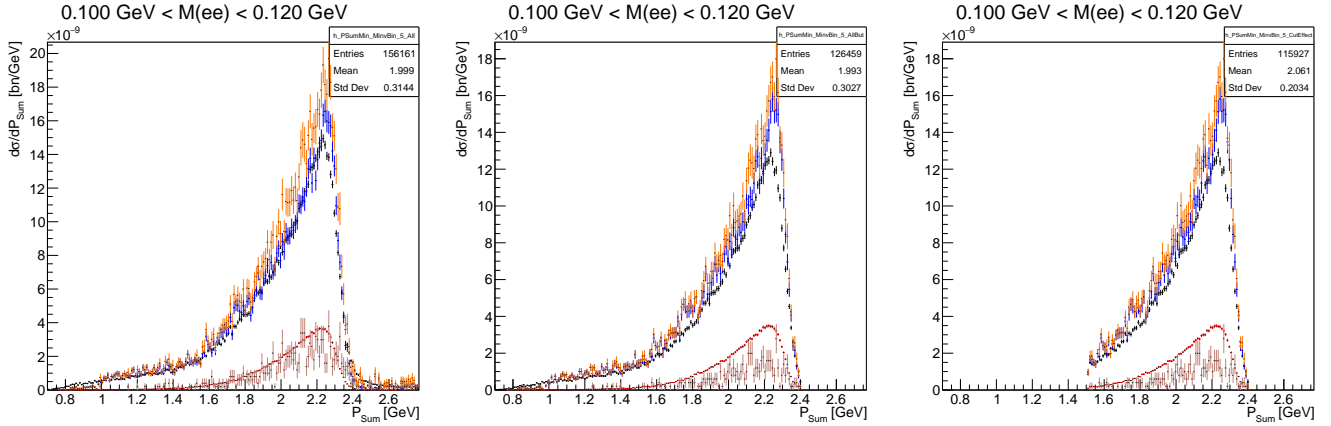


Figure 26: Progress of  $P_{\text{Sum}}$  Min cut, for the  $100 \text{ MeV} < M(ee) < 120 \text{ MeV}$

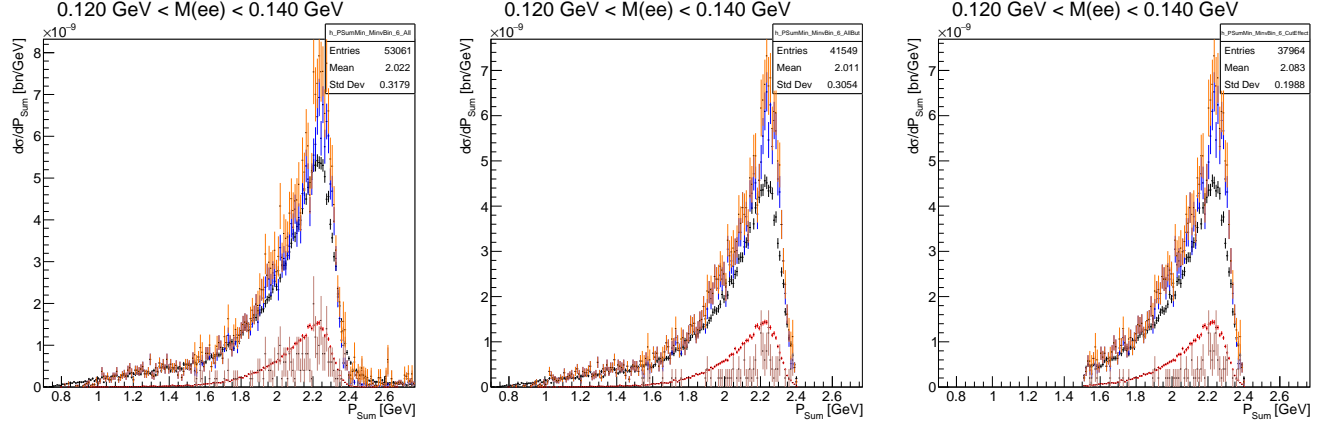


Figure 27: Progress of  $P_{\text{Sum}}$  Min cut, for the  $120 \text{ MeV} < M(ee) < 0.140 \text{ MeV}$

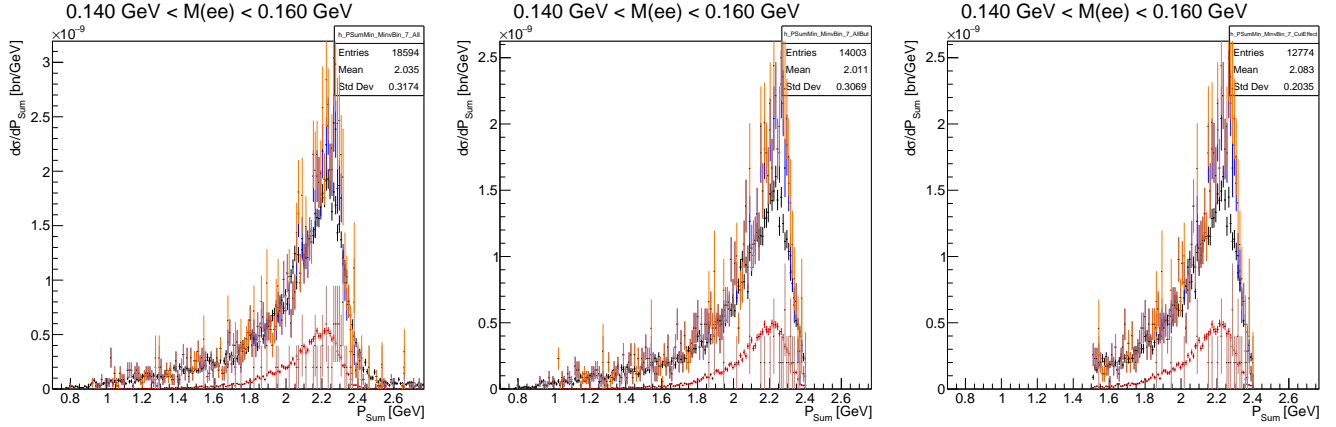


Figure 28: Progress of  $P_{\text{Sum}}$  Min cut, for the  $140 \text{ MeV} < M(ee) < 160 \text{ MeV}$

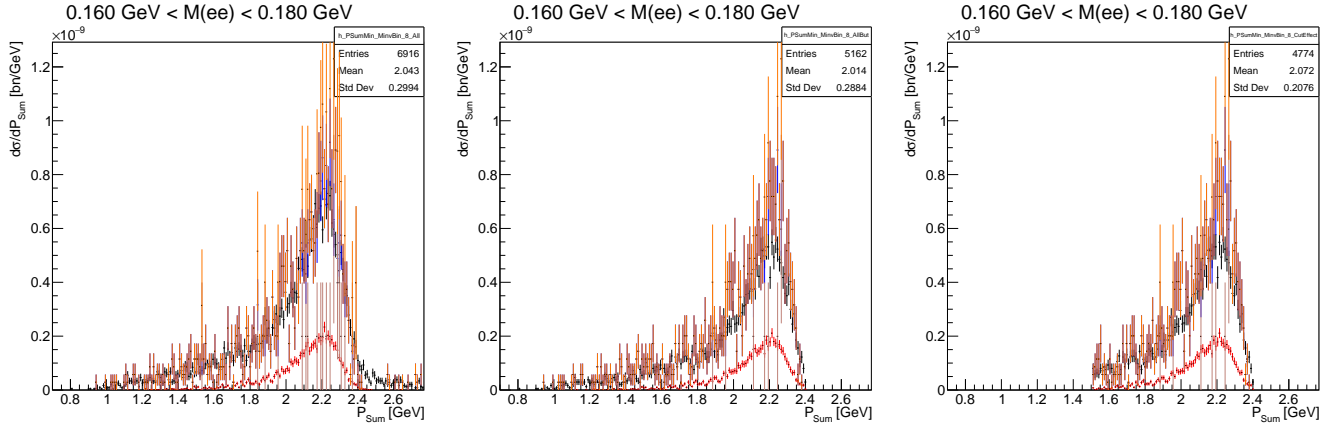


Figure 29: Progress of  $P_{\text{Sum}}$  Min cut, for the  $160 \text{ MeV} < M(ee) < 180 \text{ MeV}$

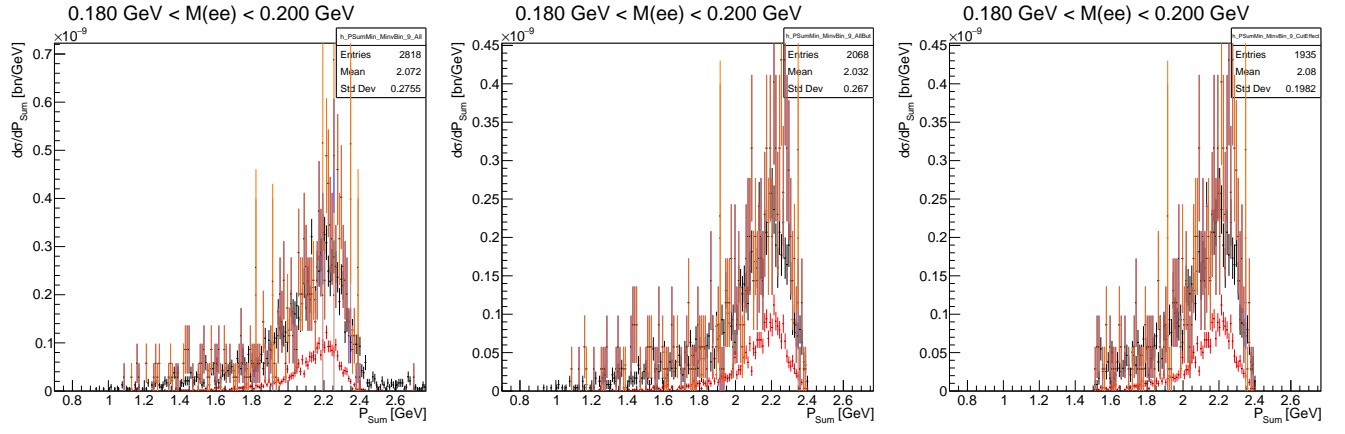


Figure 30: Progress of  $P_{\text{Sum}}$  Min cut, for the  $180 \text{ MeV} < M(ee) < 200 \text{ MeV}$