

MARATHON Offline Data Quality Check_Pass1

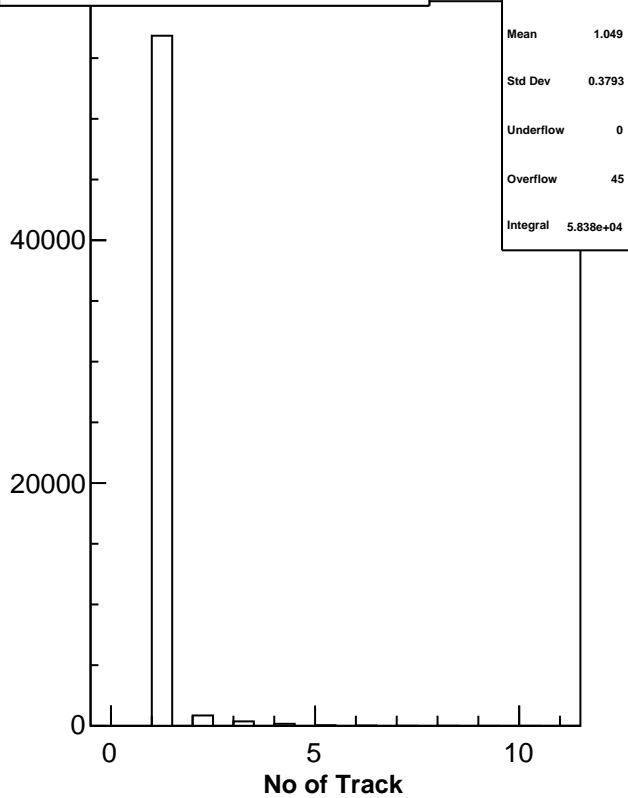
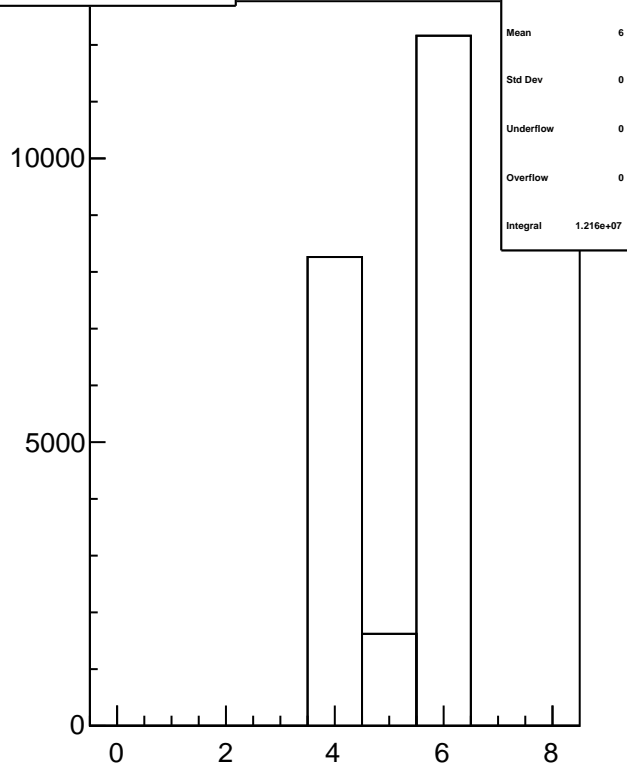
Target Type :H3

Kinematic Setting $x=0.82$

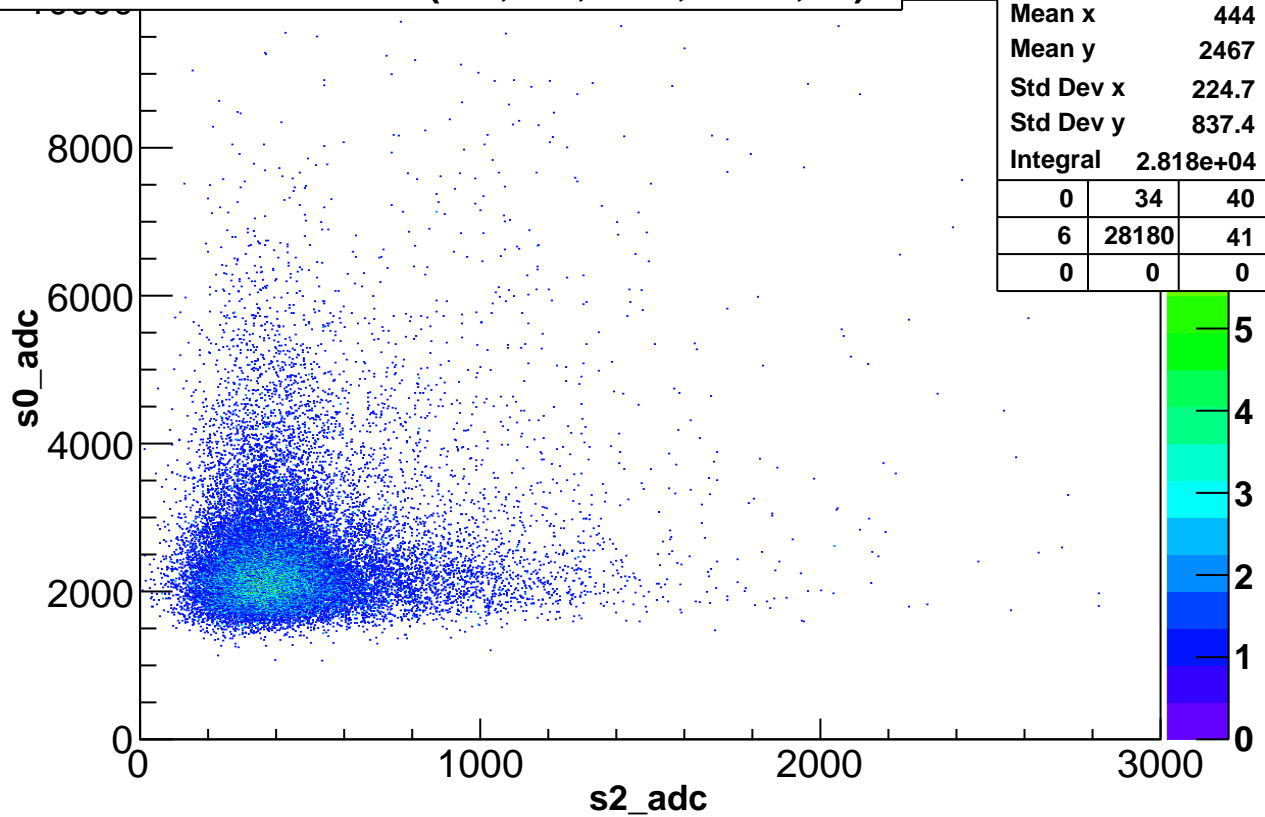
Kinematic Setting HRS angle=36.12

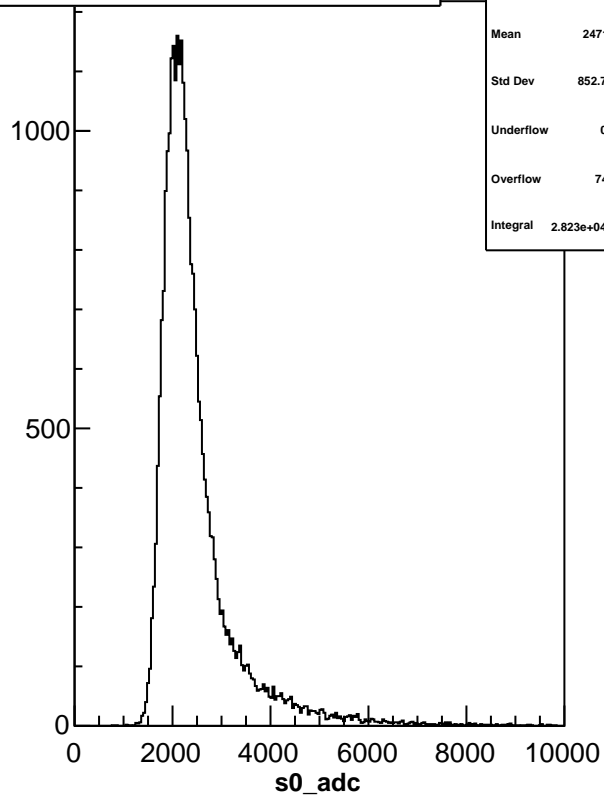
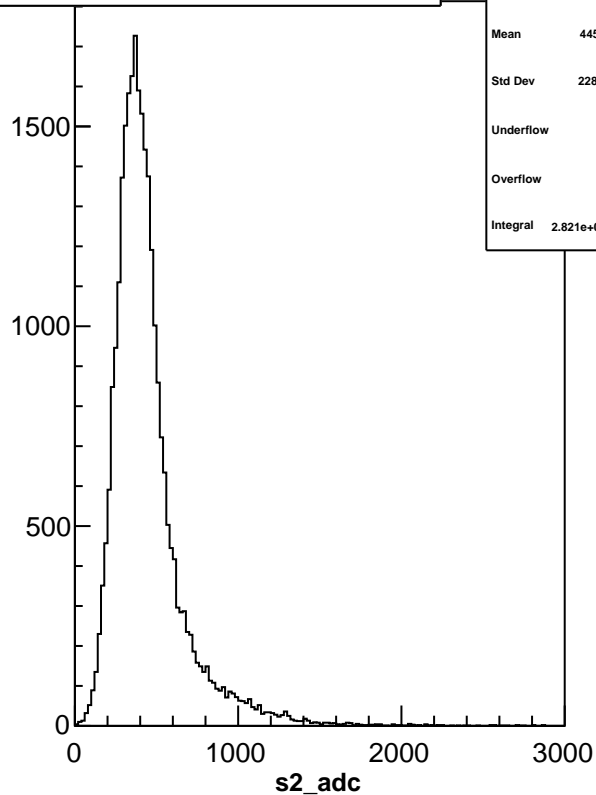
Run List Contain:

90884 90885 90886 90902 90903 90904 90907 90908 90909 90910 90922 90923
90924 90925 90926 90929 90950 90951 90952 90953 90968 90983 90984 90985
90986 91004 91005 91006 91007 91015 91017 91018 91019 91020 91021 91034
91035 91036 91037 91059 91060 91062 91074 91075 91076 91077 91078 91085
91086 91087 91088 91101 91103 91104 91105 91120 91121 91124 91127 91128
91129 91130 91131 91163 91164 91180 91181 91182 91183 91184 91185 91222
91223 91224 91225 91226 91235 91236 91237 91238 91248 91249 91250 91251
91266 91267 91268 91269 91270 91277 91278 91279 91290 91291 91292 91293
91304 91305 91306 91307 91319 91320 91321 91322 91323 91355 91356 91357
91358 91359 91367 91368 91369 91370 91381 91382 91383 91384 91385 91395
91396 91397 91399 91413 91414 91415 91416 91417 91418 91246 91427 91428
91429 91438 91439 91440 91441 91440 91451 91452 91476 91477 91478 91479
91488 91489 91490 91491 91492 91500 91501 91502 91503 91504 91515 91516
91517 91518 91527 91531 91532 91533 91534 91535 91550 91551 91552 91554
91555 91556 91562 91563 91564 91565 91571 91572 91573 91574 91575 91576
91577 91678 91679 91680 91681 91682 91691 91692 91693 91694 91734 91735
91736 91737 91739 91740 91741 91743 91742 91744 91745 91747 91748 91749
91750 91751 91789 91795 91805 91806 91816 91817 91818 91823 91824 91825
91834 91835 91848 91849 91850 91873 91874 91875 91876 91877 91878

Number of Track(CK,E/P,T5)**Trigger Counts**

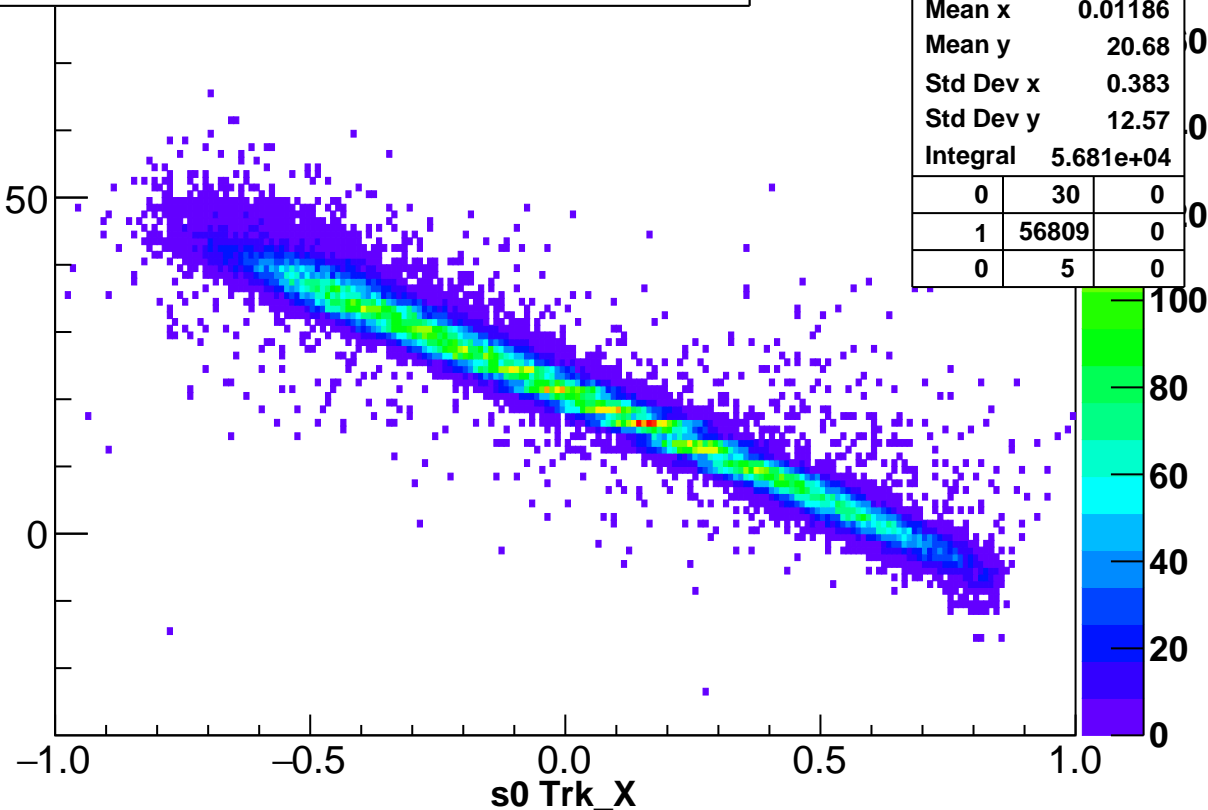
s0 ADC vs s2 ADC cut (CK,E/P,GAS,TRK1,T5)

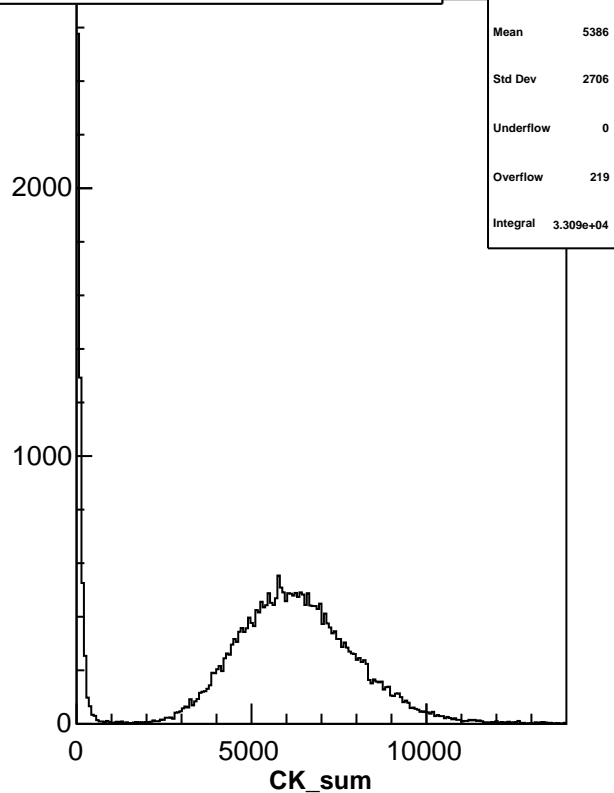
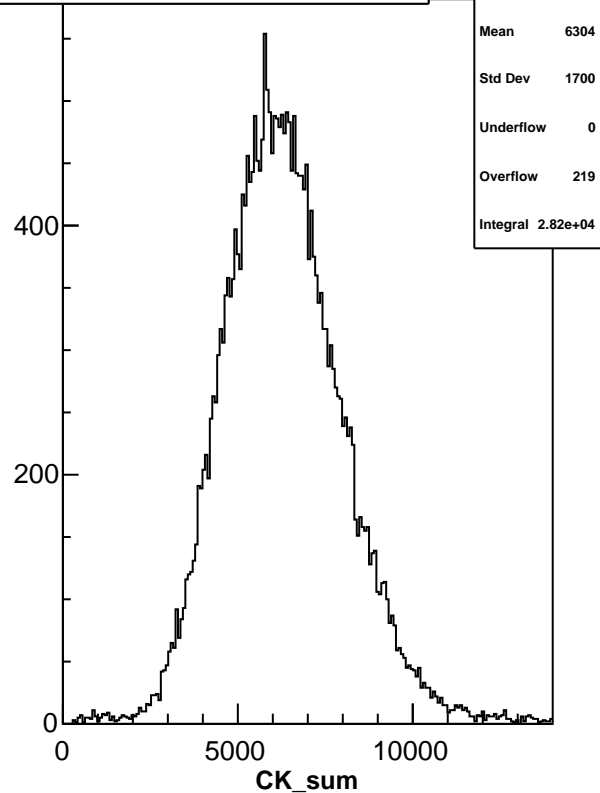


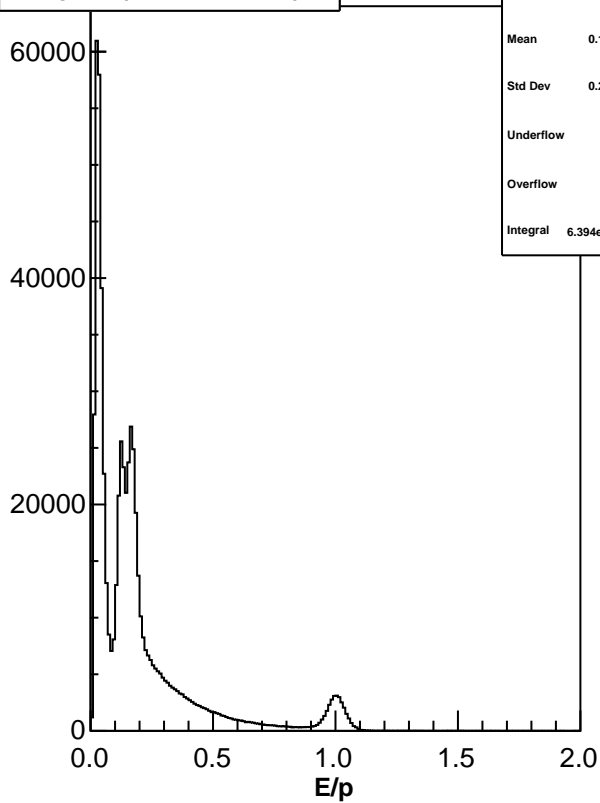
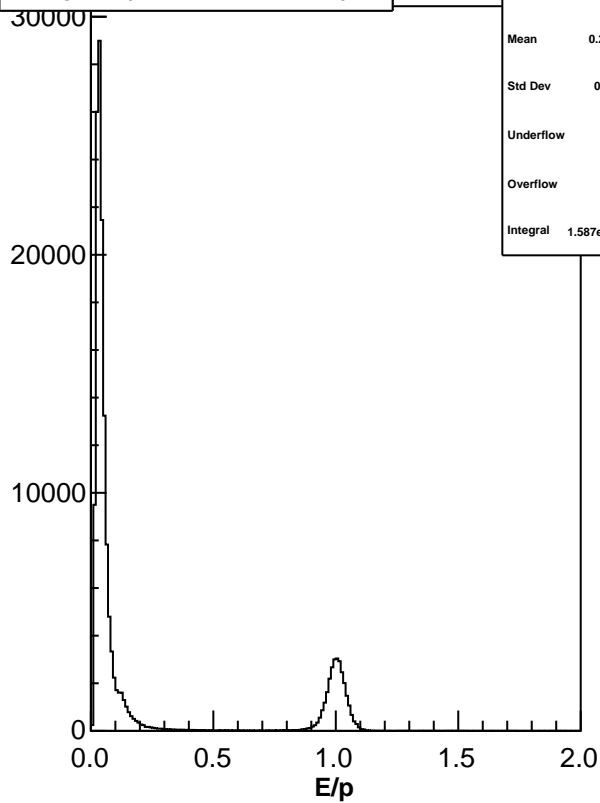
s0 ADC cut (CK,E/P,TRK1,GAS,T5)**s2 ADC cut (CK,E/P,TRK1,GAS,T5)**

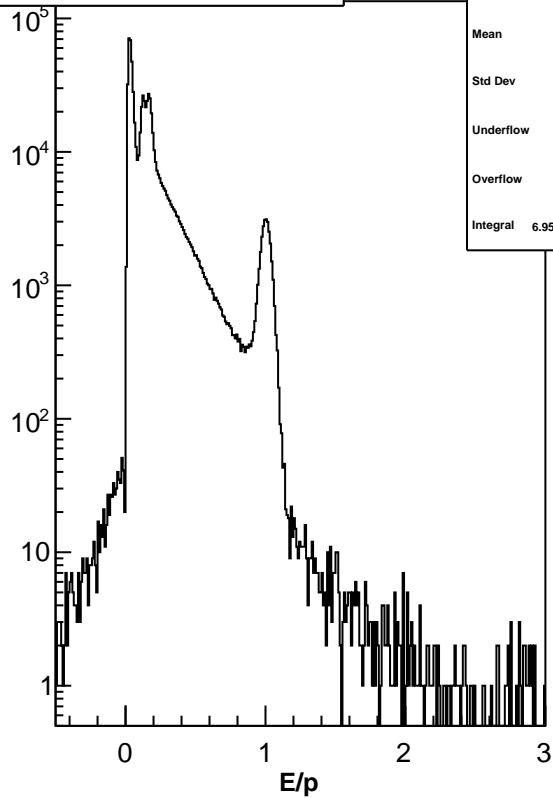
S0: TDC diff VS s0.trk_x (CK,TRK1,E/P,T5)

Left_TDC-Ritght_TDC

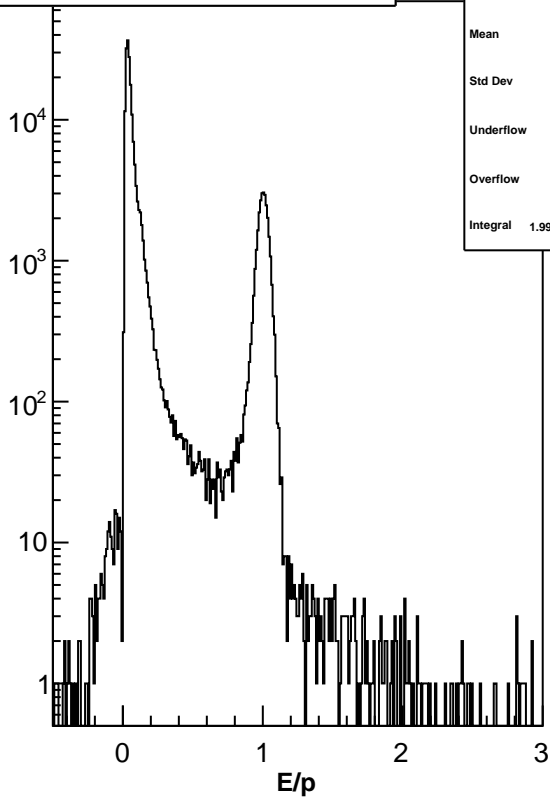


CK sum ADC cut(E/P,TRK1,GAS,T4)**CK sum ADC cut(E/P,TRK1,GAS,T5)**

E/p cut(TRK1,T4,GAS)**E/p cut(CK,TRK1,GAS,T5)**

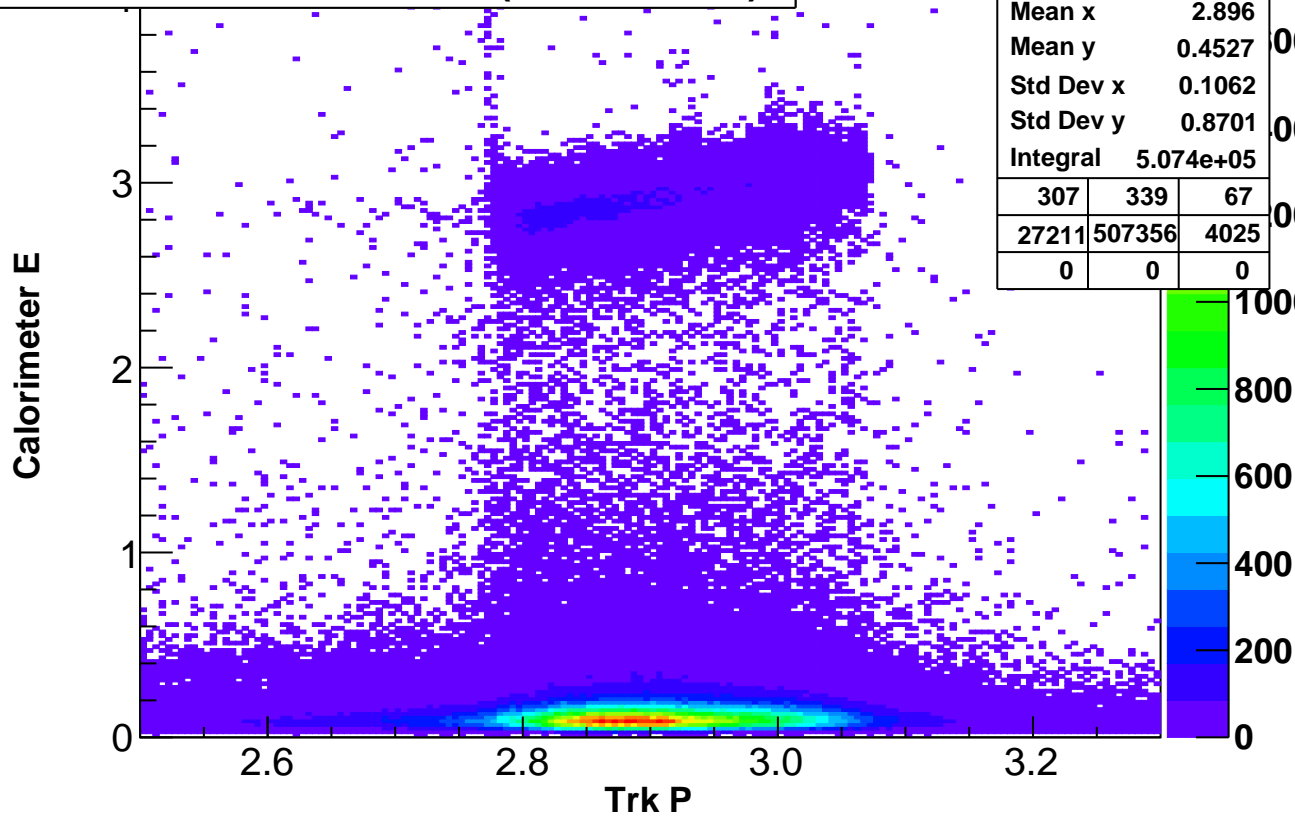
E/p cut(TRK1&2,T4,GAS)

Entries	696260
Mean	0.1896
Std Dev	0.2304
Underflow	198
Overflow	141
Integral	6.959e+05

E/p cut(CK,TRK1&2,T5,GAS)

Entries	199383
Mean	0.1943
Std Dev	0.3395
Underflow	50
Overflow	81
Integral	1.993e+05

Calorimeter E VS Trk P cut(CK,TRK1,T5)



EP VS Trk_x cut(CK,TRK1,T5)

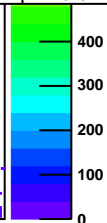
E/P

1.5
1.0
0.5
0.0

-1

PS_trx

Entries	539305	
Mean x	0.1123	
Mean y	0.154	
Std Dev x	0.4843	
Std Dev y	0.2967	
Integral	5.351e+05	
1	582	3
454	535107	119
207	2483	349



EP VS Trk_y cut(CK,TRK1,T5)

E/P

1.5
1.0
0.5
0.0

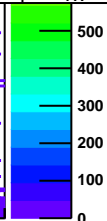
-0.2

PS_try

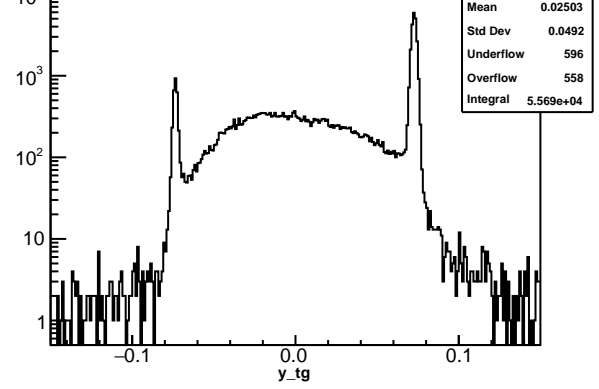
0.2

0.4

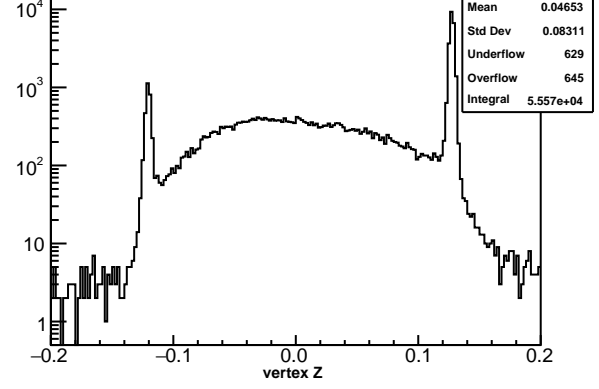
Entries	539305	
Mean x	-0.007579	
Mean y	0.1553	
Std Dev x	0.1318	
Std Dev y	0.2984	
Integral	5.255e+05	
82	450	54
5128	525544	5008
582	2040	417



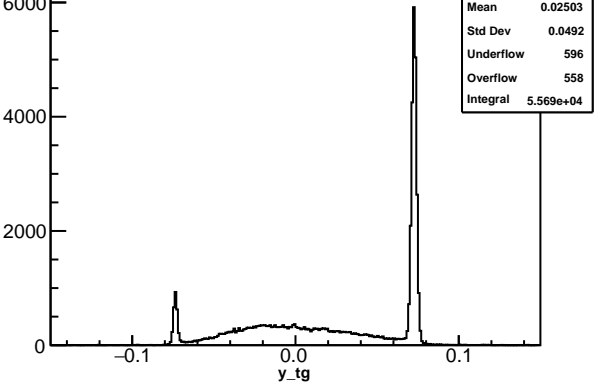
y target cut(CK,TRK1,E/P,T5)



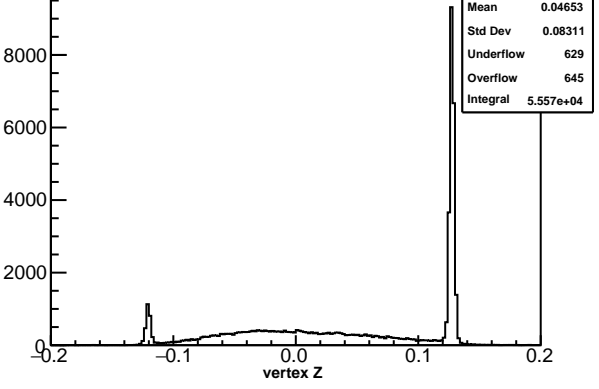
z target cut(CK,TRK1,E/P,T5)



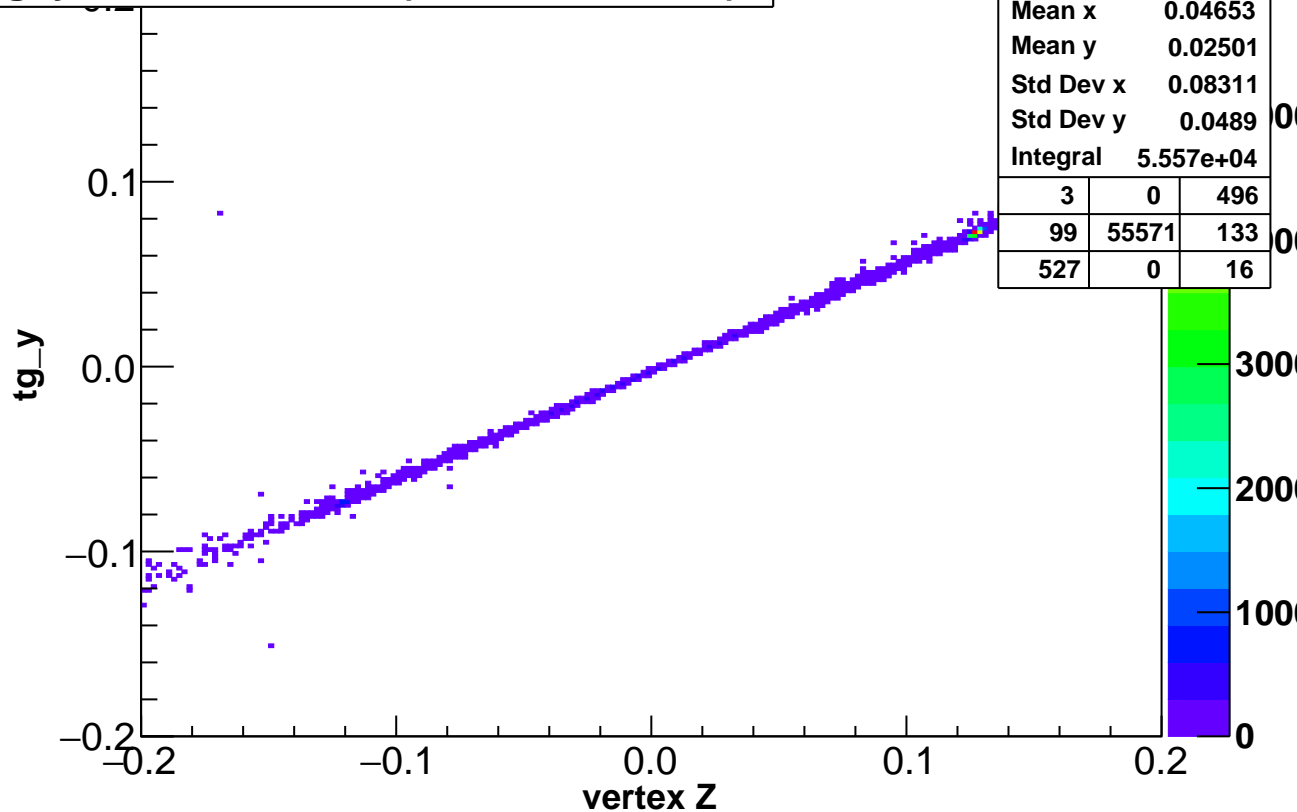
y target cut(CK,TRK1,E/P,T5)



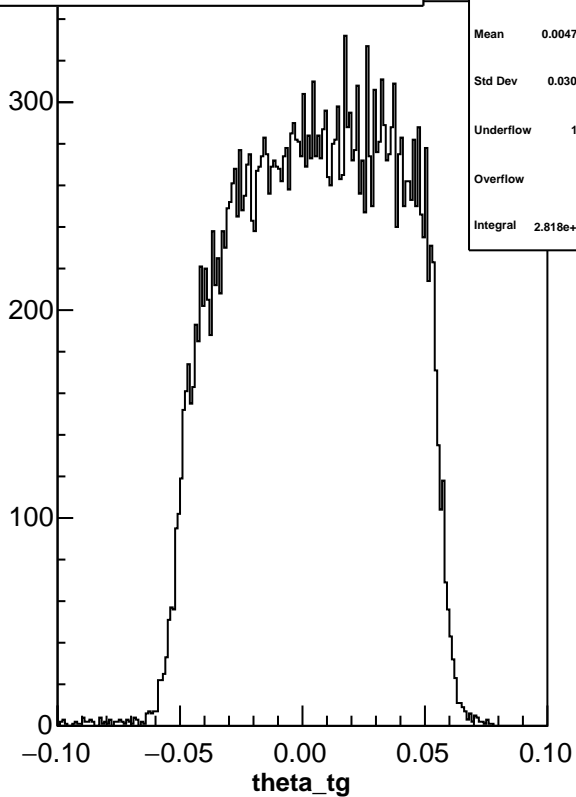
z target cut(CK,TRK1,E/P,T5)



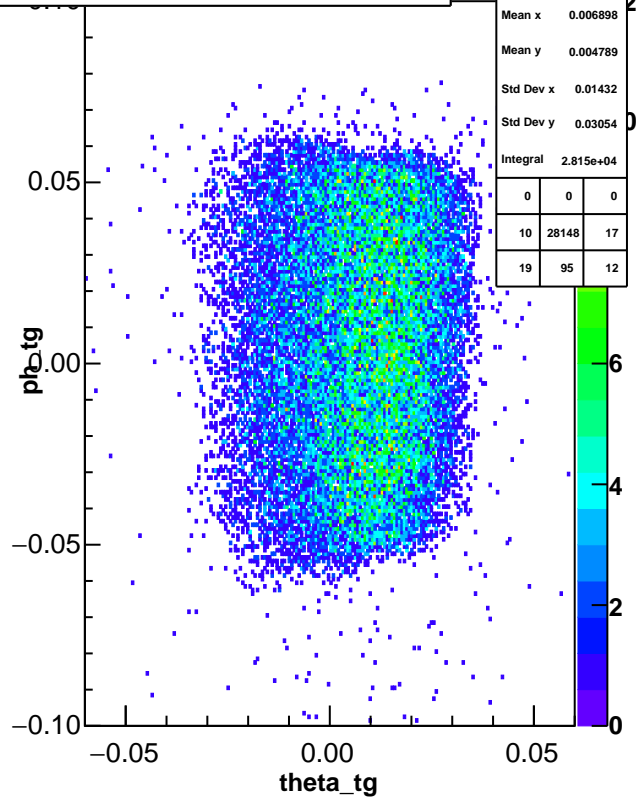
Tg_y VS Vertax_Z cut(CK,TRK1,E/P,T5)



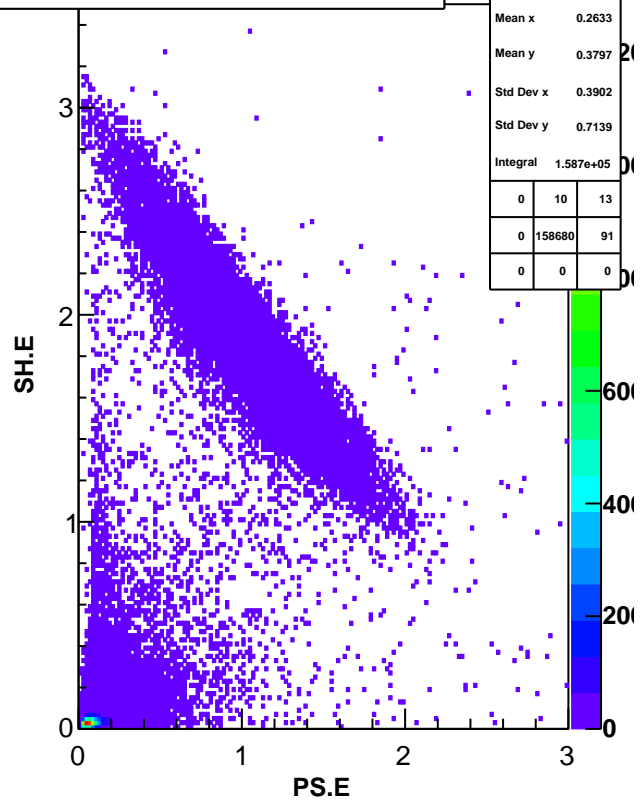
theta target cut(CK,TRK1,E/P,GAS,T5)



theta vs phi target cut(CK,TRK1,E/P,GAS,T5)

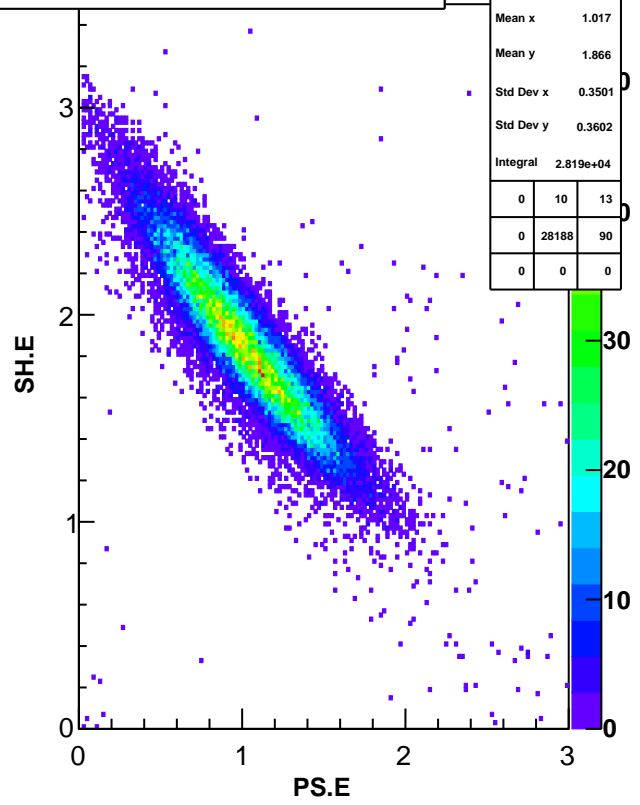


SH.E VS PS.E cut(CK,Trk1,GAS,T5)



Entries	158794	
Mean x	0.2633	
Mean y	0.3797	
Std Dev x	0.3902	
Std Dev y	0.7139	
Integral	1.587e+05	
0	10	13
0	158680	91
0	0	0

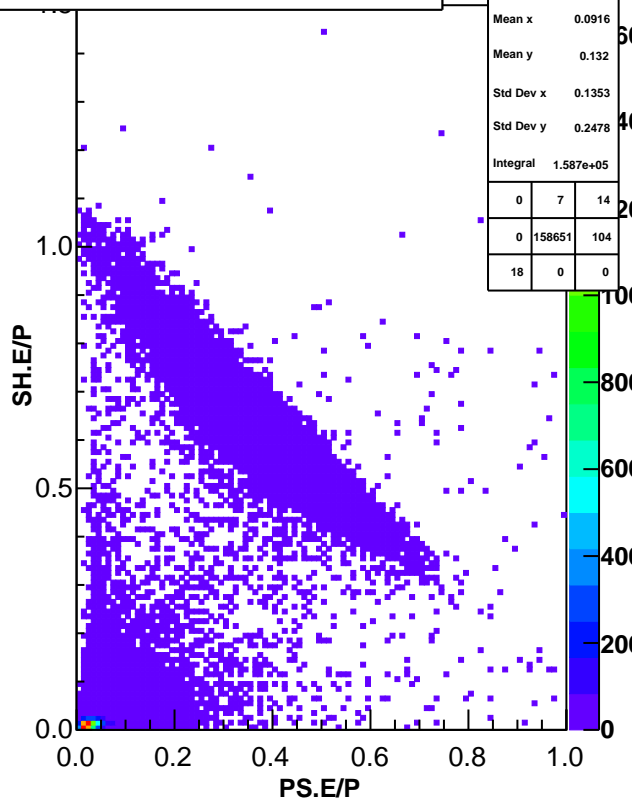
SH.E VS PS.E cut(CK,E/P,Trk1,GAS,T5)



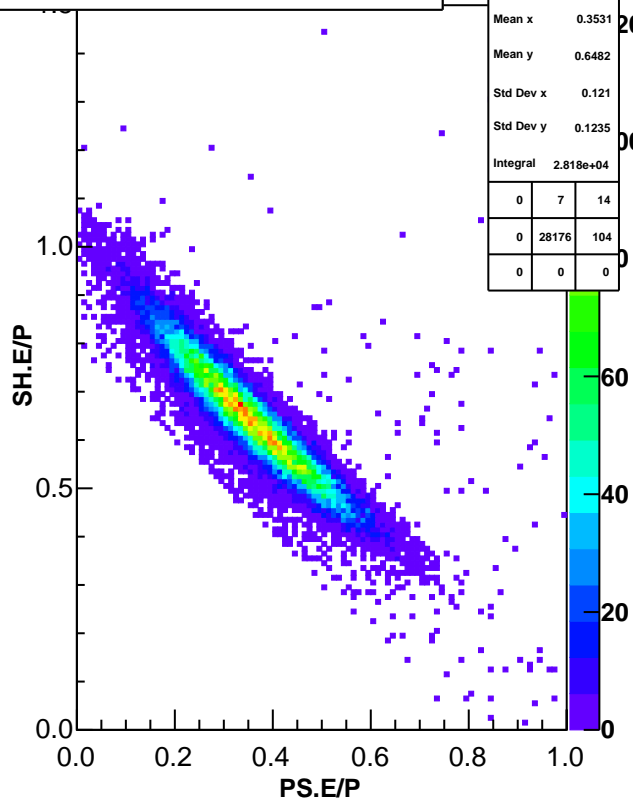
Entries	28301
Mean x	1.017
Mean y	1.866
Std Dev x	0.3501
Std Dev y	0.3602
Integral	2.819e+04

0	10	13
0	28188	90
0	0	0

SH.E/P VS PS.E/P cut(CK,Trk1,GAS,T5)

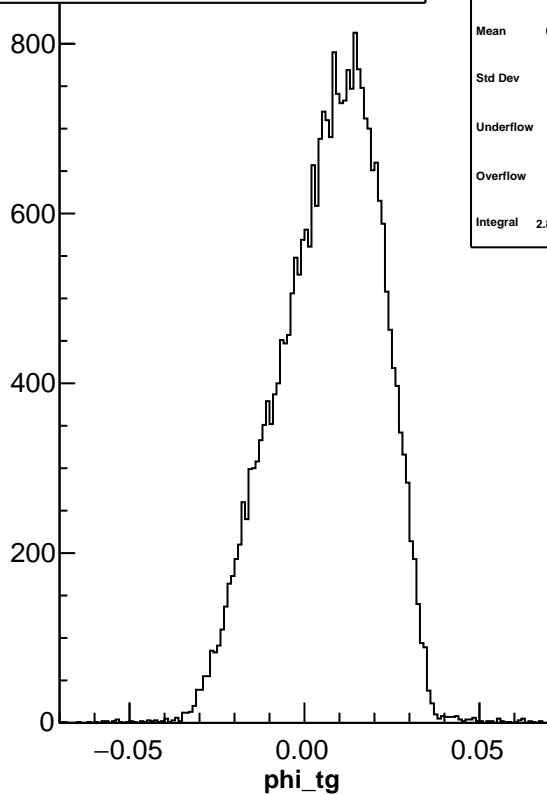


SH.E/P VS PS.E/P cut(CK,E/P,Trk1,GAS,T5)



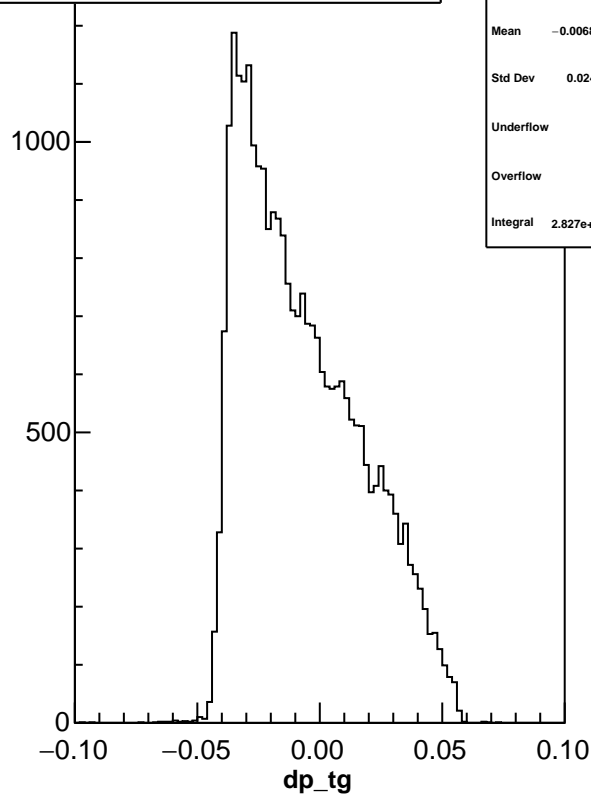
phi target cut(CK,TRK1,E/P,GAS,T5)

Entries	28301
Mean	0.006911
Std Dev	0.01447
Underflow	25
Overflow	15
Integral	2.826e+04

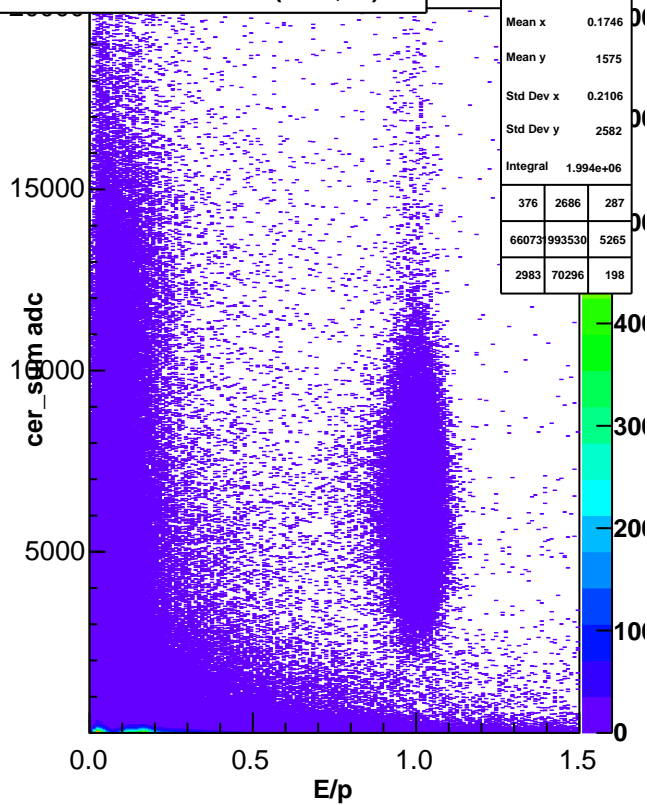


dp target cut(CK,TRK1,E/P,GAS,T5)

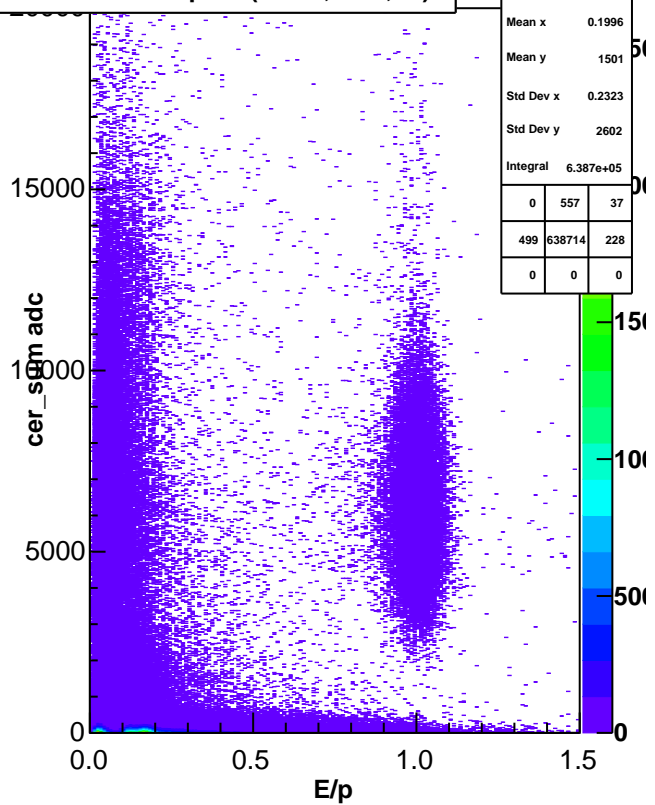
Entries	28301
Mean	-0.006863
Std Dev	0.02411
Underflow	27
Overflow	1
Integral	2.827e+04



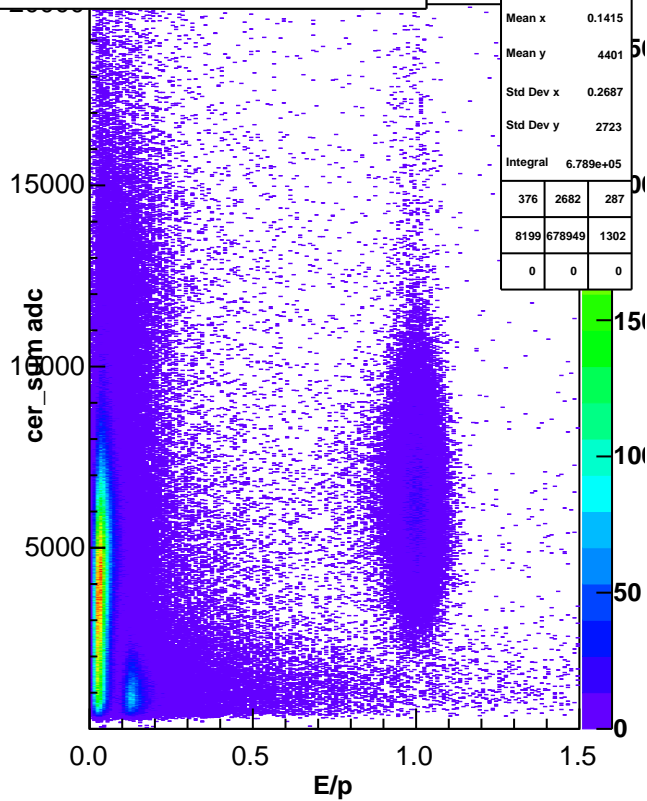
cer sum VS E/P cut(Trk1,T4)



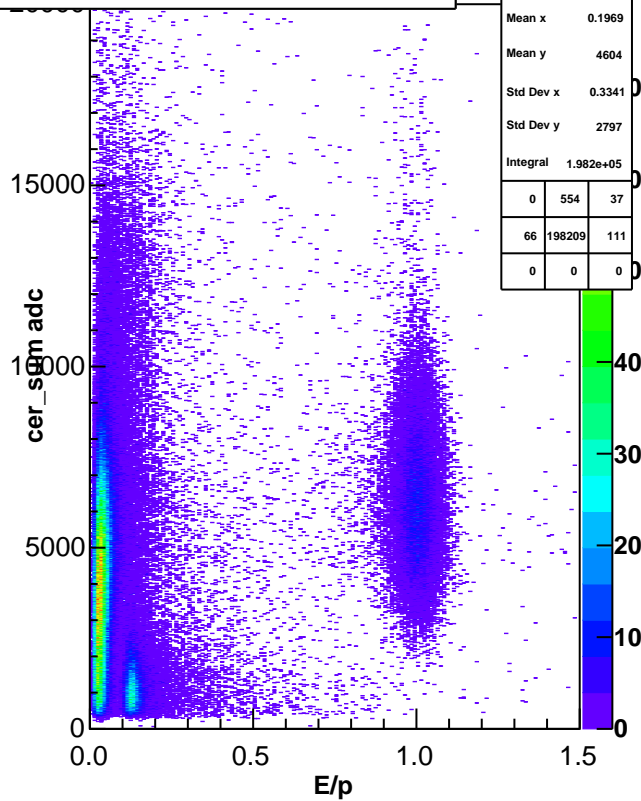
Cer sum vs E/p cut(TRK1,GAS,T4)

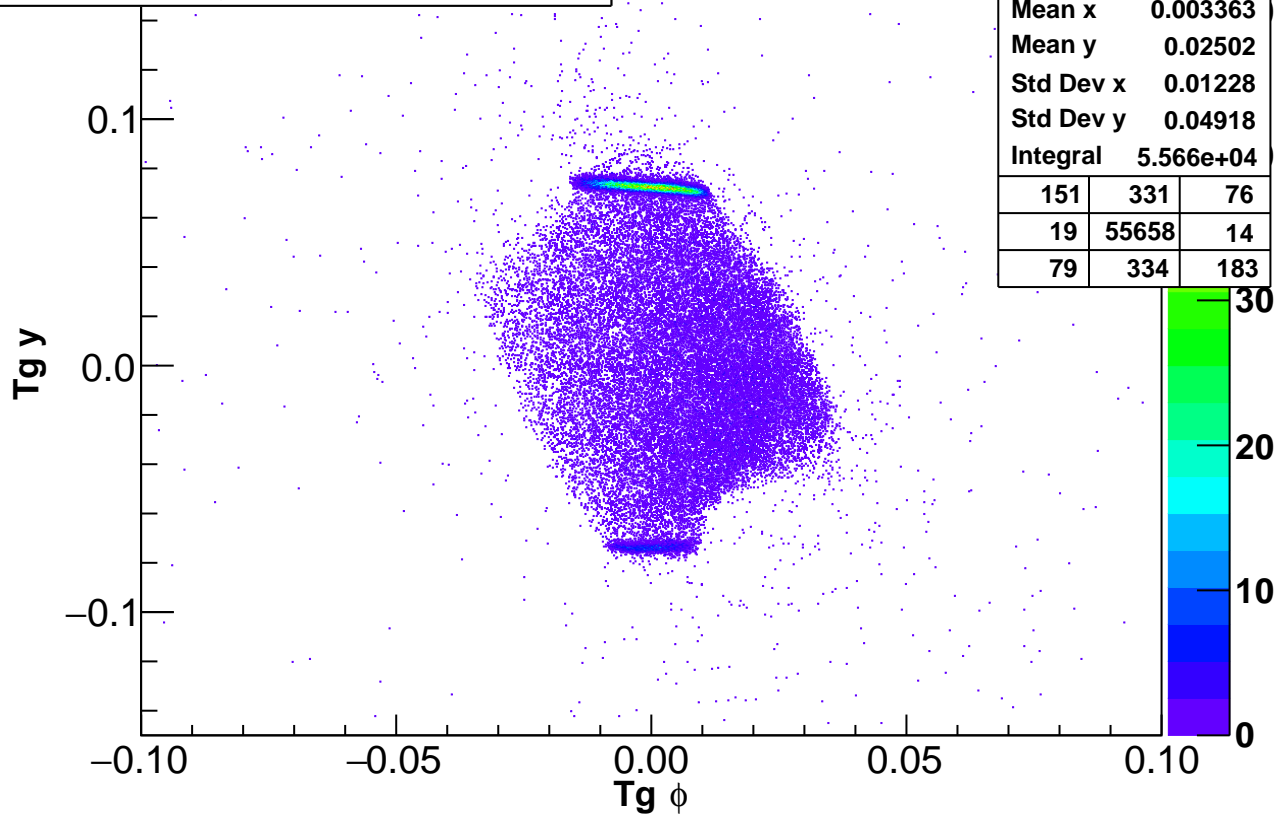


cer sum VS E/p cut(Trk1,T5)

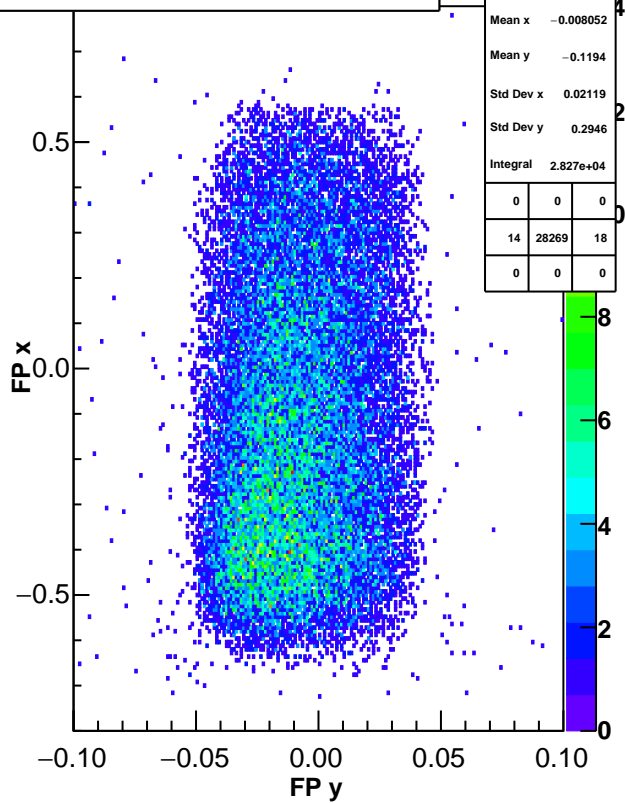


Cer sum vs E/p cut(TRK1,GAS,T5)

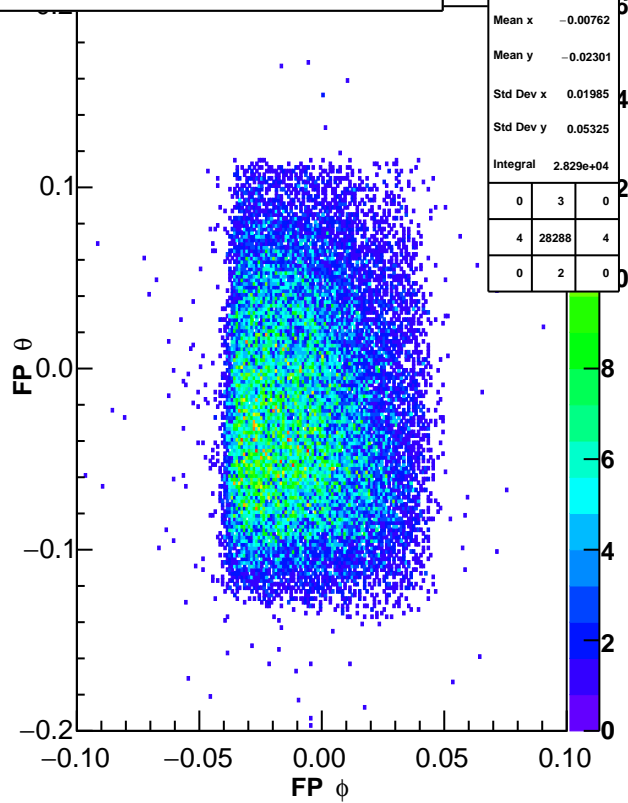


Tg Y VS Tg ϕ (CK,TRK1,E/P,T5)

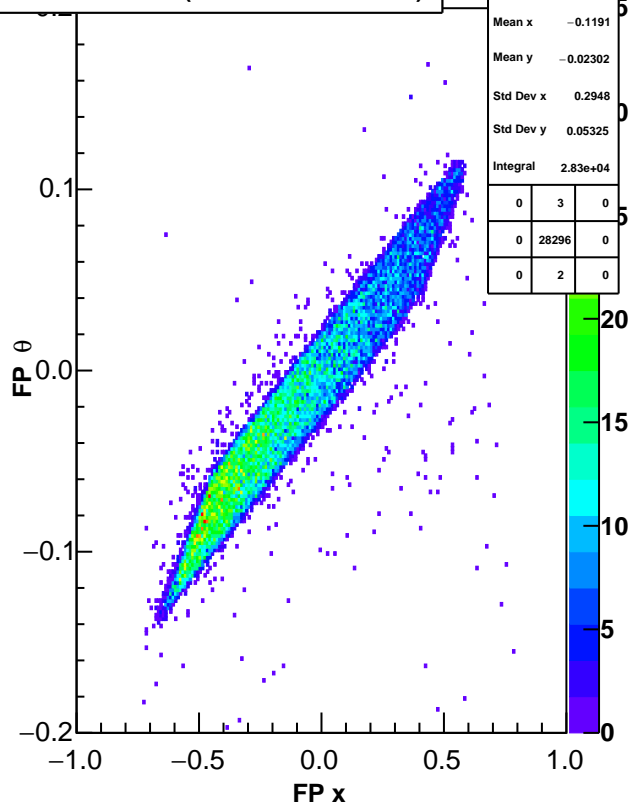
FP y VS x cut(CK GAS E/P and Trk1 T5)



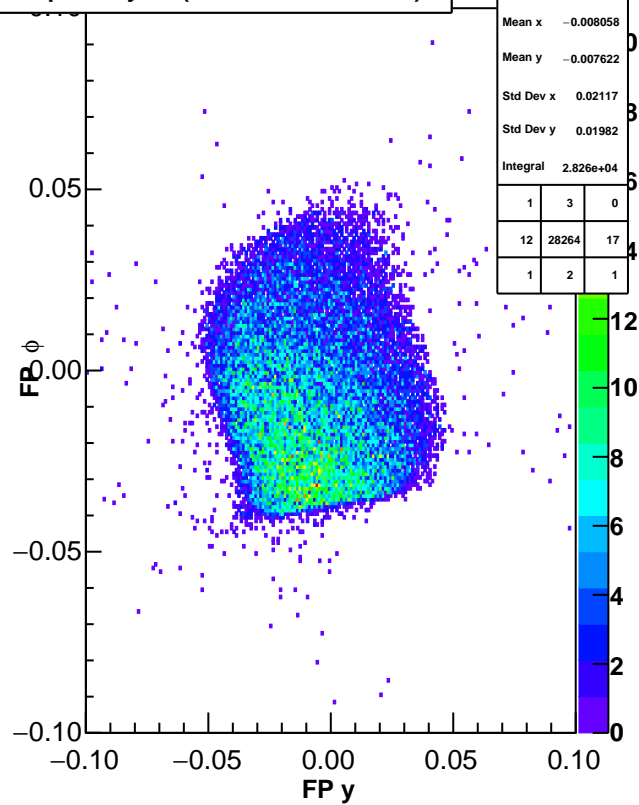
FP theta VS phi cut(CK GAS E/P and Trk1 T5)



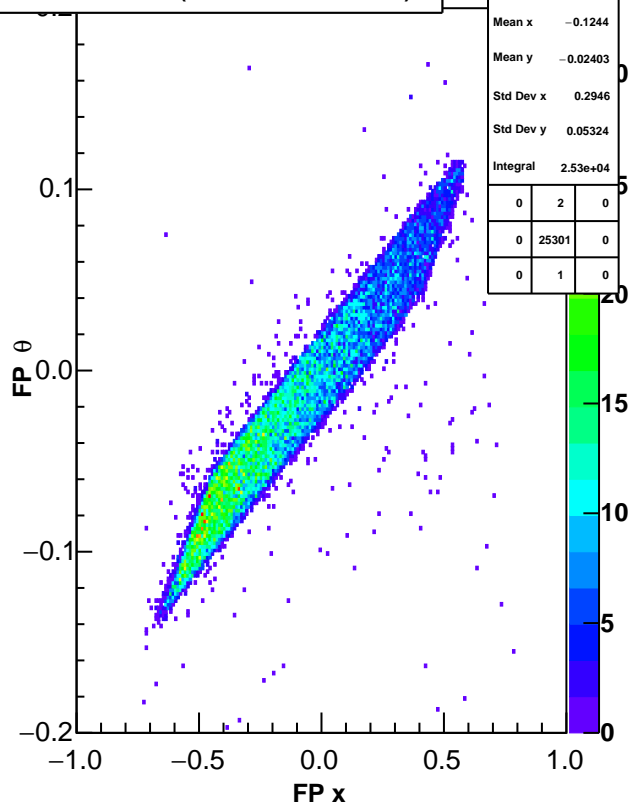
FP theta VS x cut(CK GAS E/P Trk1 T5)



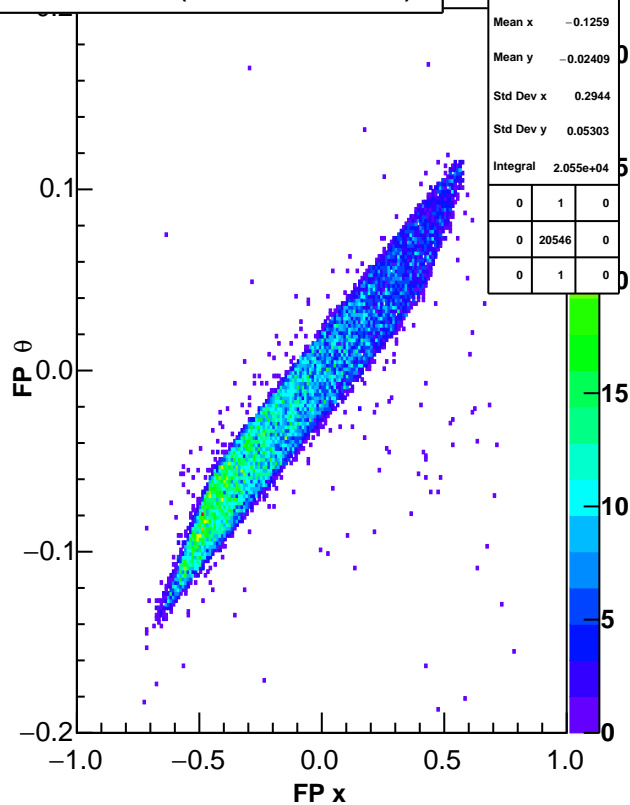
FP phi VS y cut(CK GAS E/P Trk1 T5)



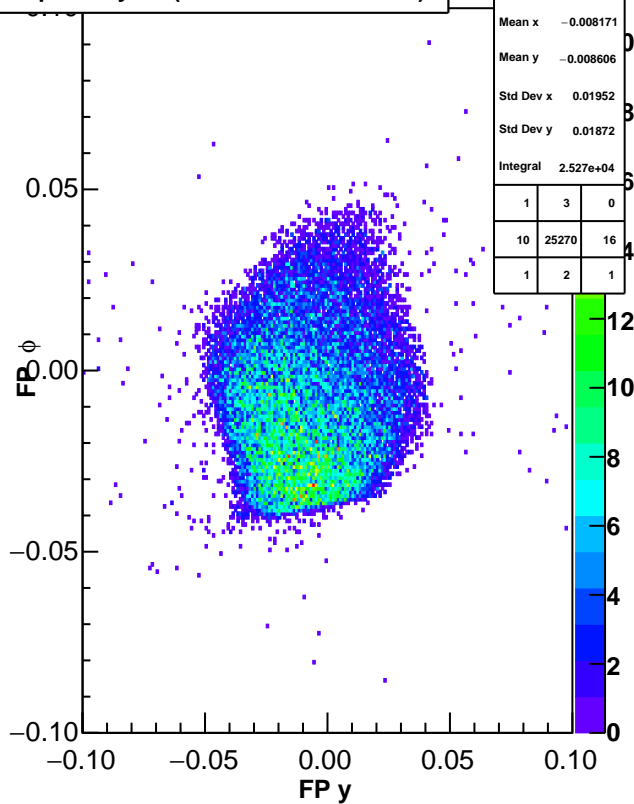
FP theta VS x cut(CK GAS1 E/P Trk1 T5)



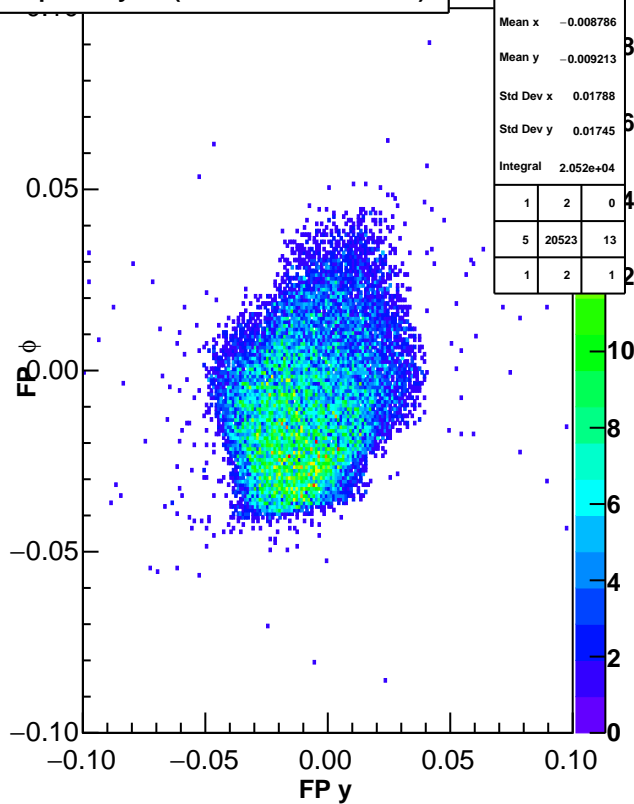
FP theta VS x cut(CK GAS2 E/P Trk1 T5)



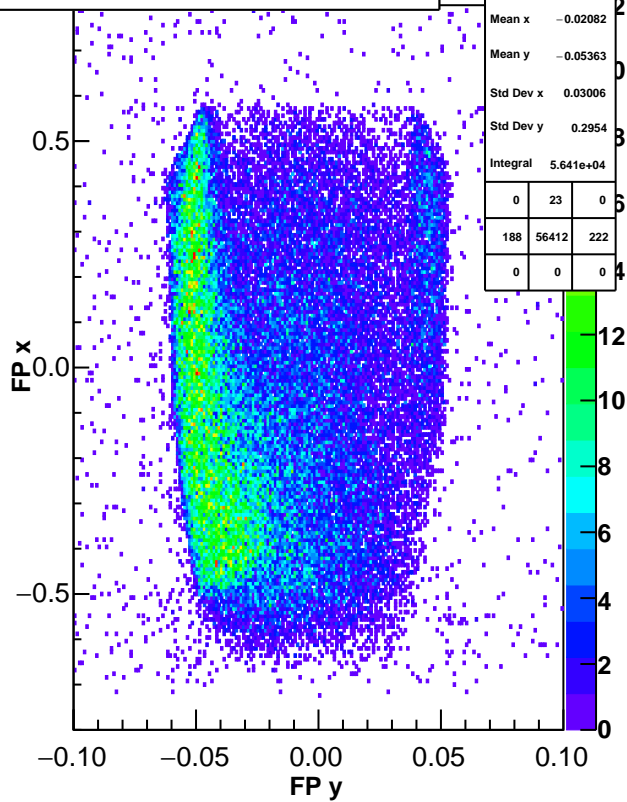
FP phi VS y cut(CK GAS1 E/P Trk1 T5)



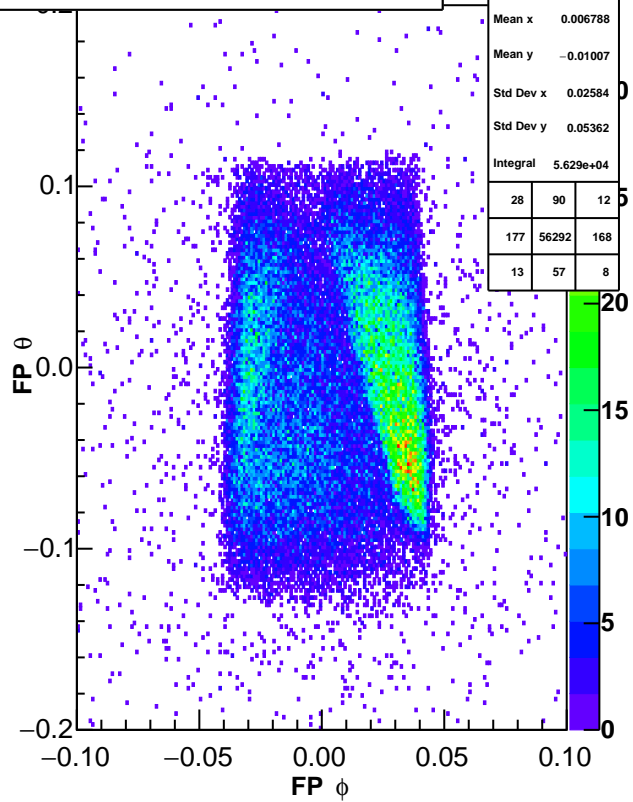
FP phi VS y cut(CK GAS2 E/P Trk1 T5)



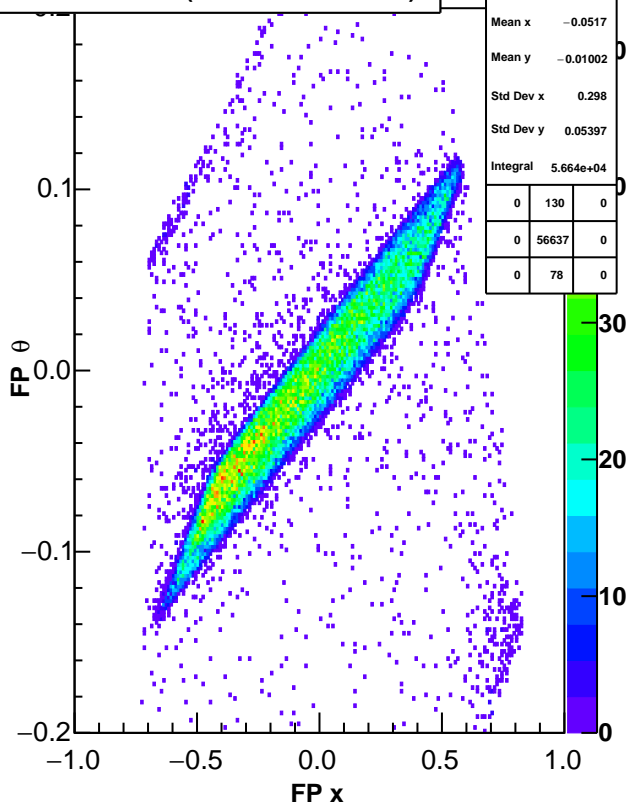
FP y VS x cut(CK E/P and Trk1 T5)



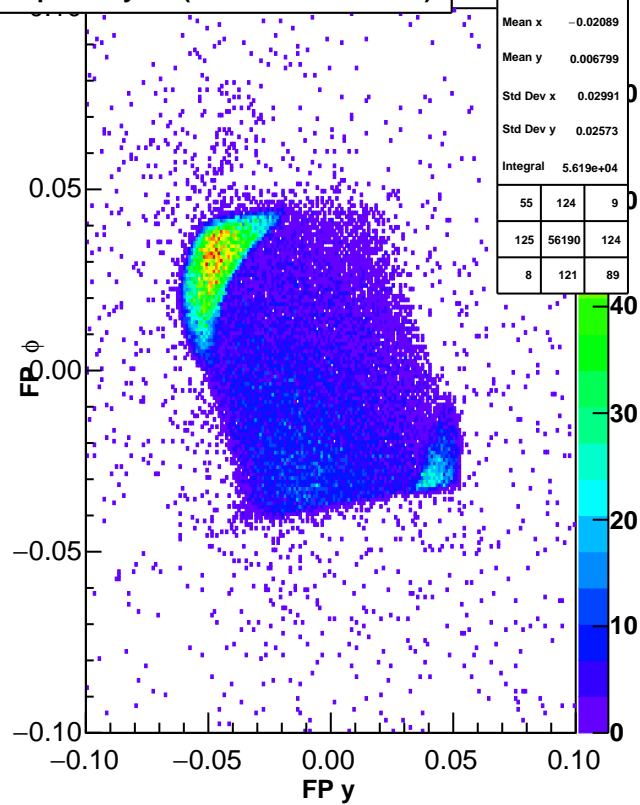
FP theta VS phi cut(CK E/P and Trk1 T5)



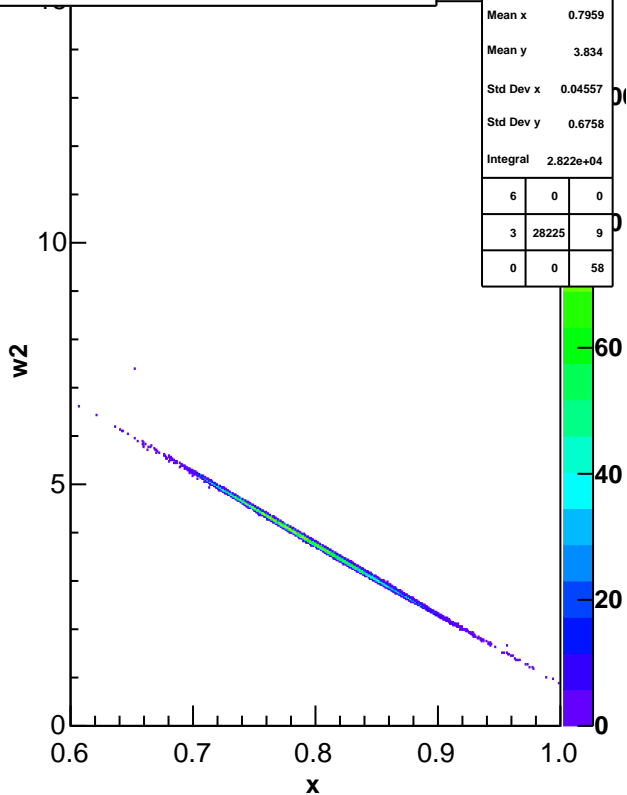
FP theta VS x cut(CK E/P and Trk1 T5)



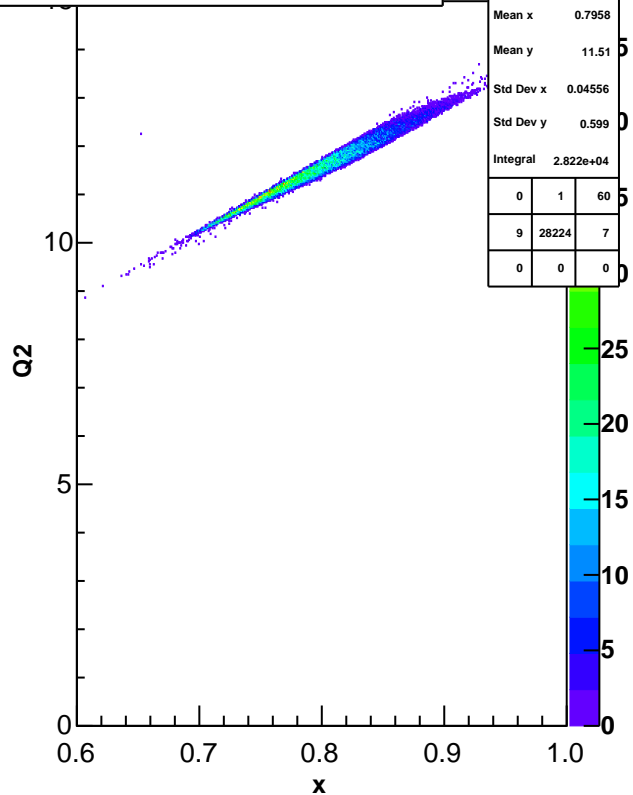
FP phi VS y cut(CK E/P and Trk1 T5)



x vs W2 cut(CK,TRK1,E/P,GAS,T5)

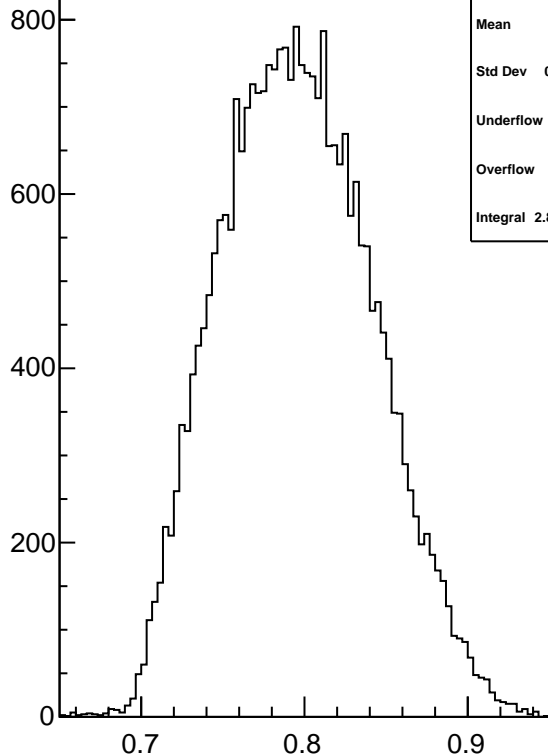


Q2 vs W2 cut(CK,TRK1,E/P,GAS,T5)



x counts cut(CK,Trk1,E/P,GAS,T5)

Entries	28301
Mean	0.7958
Std Dev	0.04529
Underflow	16
Overflow	87
Integral	2.82e+04



x counts cut(CK,Trk1,E/P,GAS,ACC,T5)

Entries	20179
Mean	0.8057
Std Dev	0.03722
Underflow	0
Overflow	0
Integral	2.018e+04

