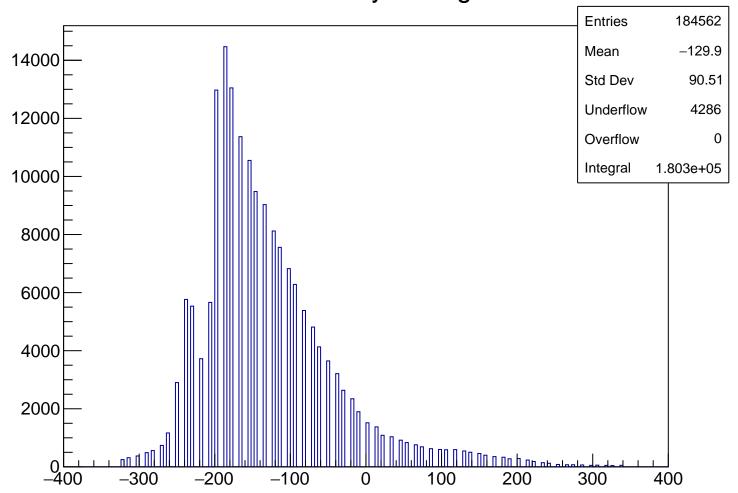
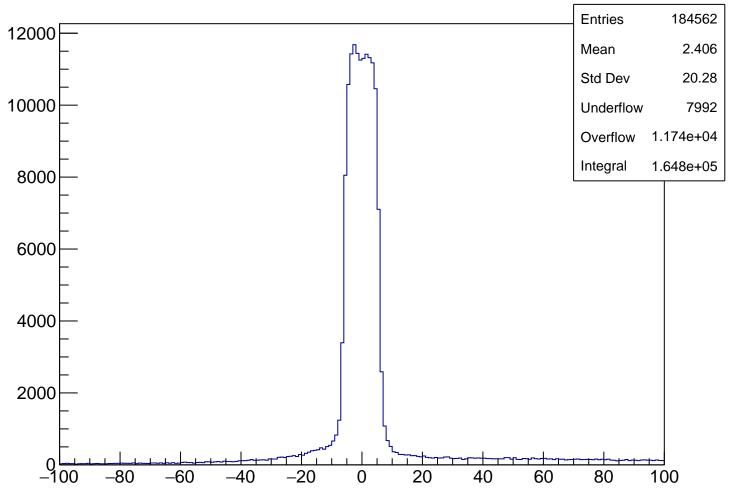
vpx[1] 184562 **Entries** -120.3Mean 7000 Std Dev 80.09 Underflow 4286 6000 Overflow 0 Integral 1.803e+05 5000 4000 3000 2000 1000 <del>-</del>400 -300 -200-100100 200 300 400

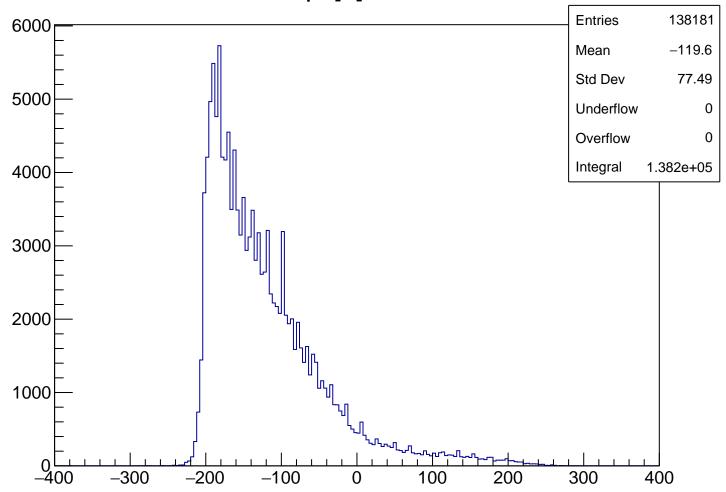
Sch Position by HitSegment



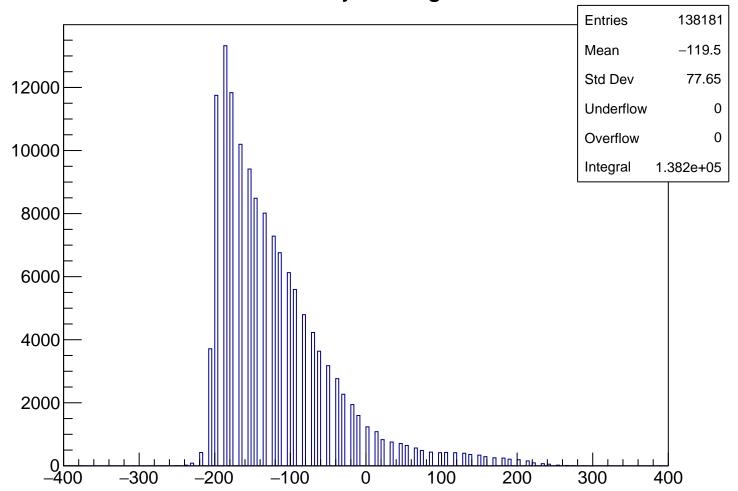
delta\_x



vpx[1] Cut1

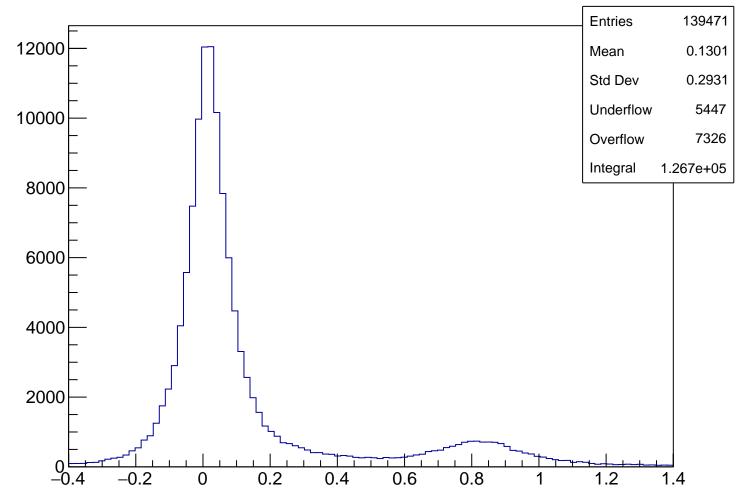


Sch Position by HitSegment Cut1

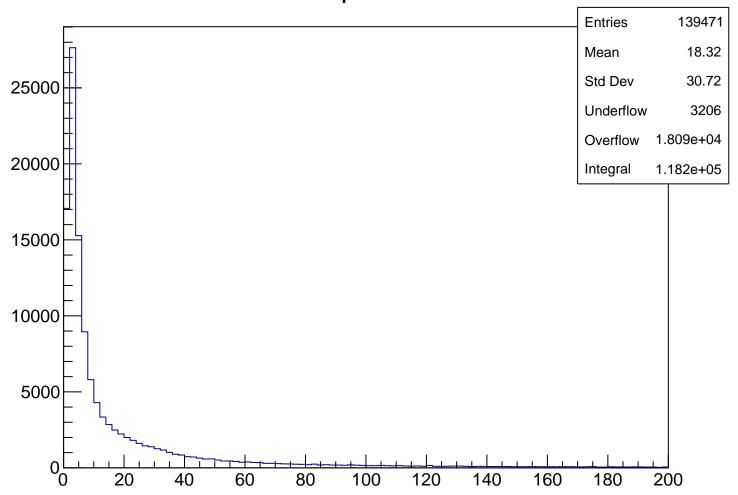


pKurama **Entries** 139471 1.039 Mean Std Dev 0.2739 5000 Underflow 3206 Overflow 6103 4000 Integral 1.302e+05 3000 2000 1000 0, 1.6 0.2 0.4 0.6 8.0 1.2 1.4 1.8

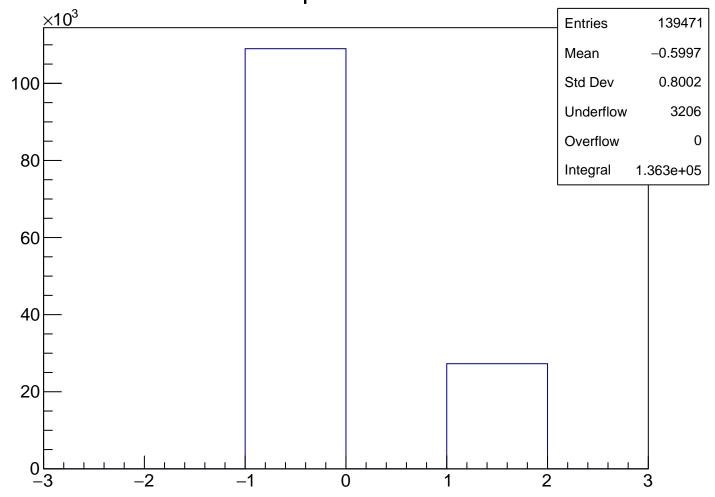




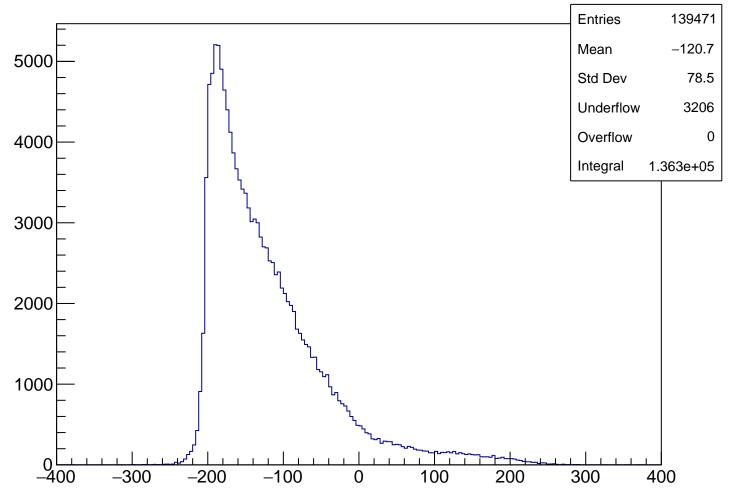
chisqrKurama

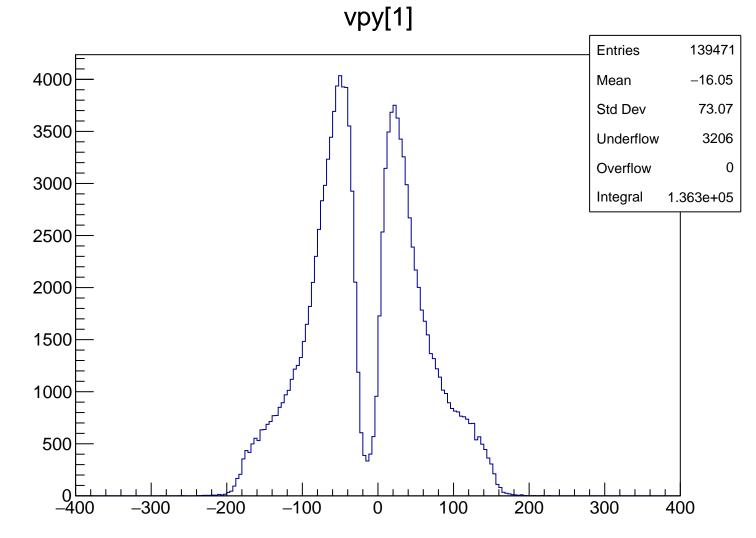


qKurama

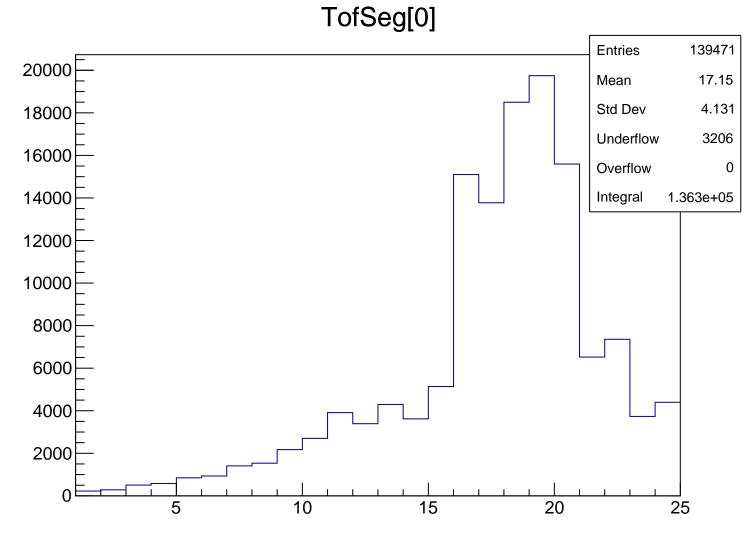


vpx[1] 2





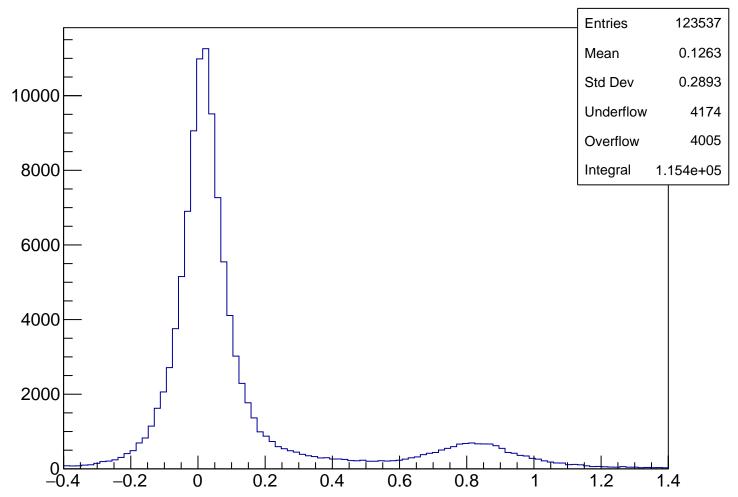
vpseg[1] **Entries** 19.29 Mean Std Dev 7.479 Underflow Overflow Integral 1.363e+05 



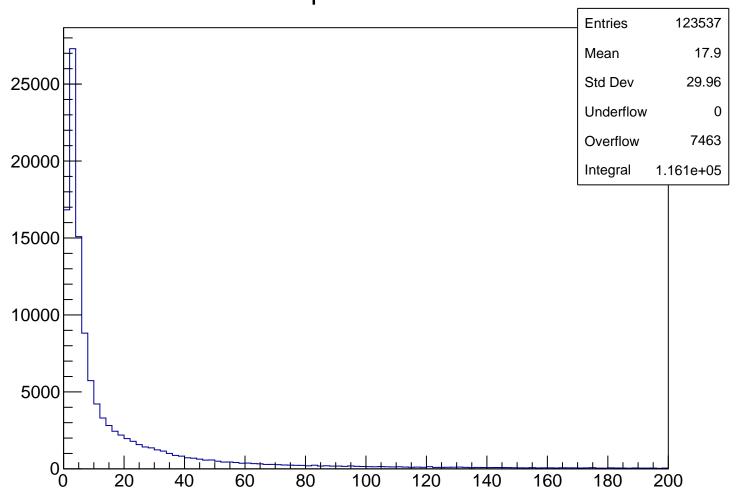
tofsegKurama[0] **Entries** 139471 25000 Mean 17.68 Std Dev 3.837 Underflow 3207 20000 Overflow 0 Integral 1.363e+05 15000 10000 5000 10 15 20 25

pKurama Cut1 **Entries** 123537 Mean 1.043 Std Dev 0.2596 5000 Underflow 0 Overflow 2174 4000 Integral 1.214e+05 3000 2000 1000 0, 0.2 0.4 0.6 8.0 1.2 1.4 1.6 1.8

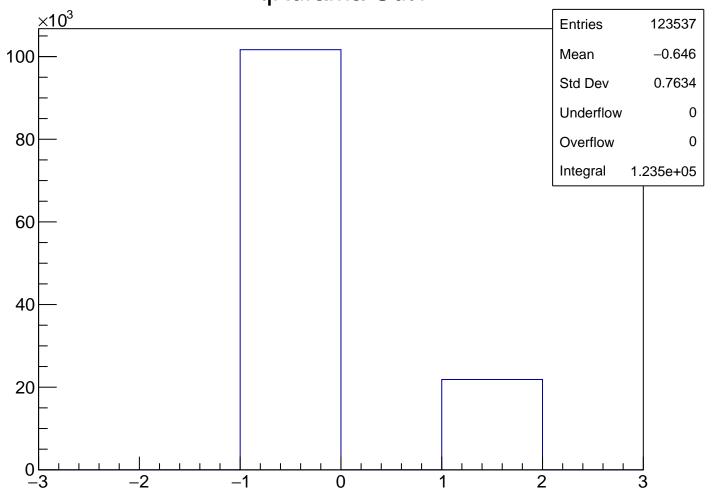
m2 Cut1



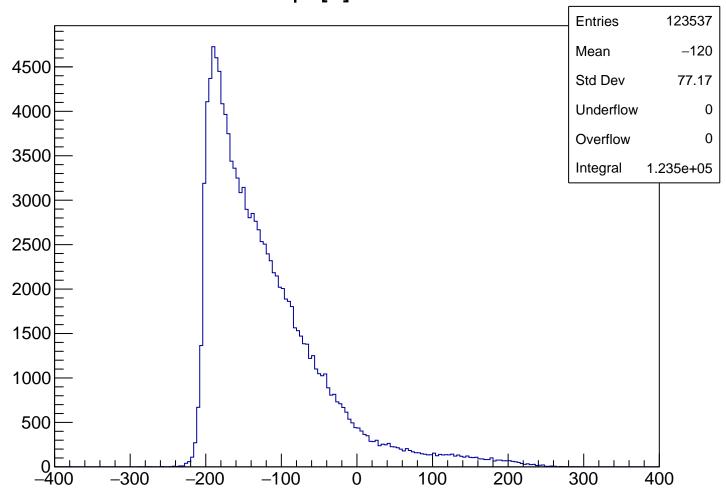
chisqrKurama Cut1



qKurama Cut1



vpx[1] Cut1 2



vpseg[1] Cut1 **Entries** Mean 19.36 Std Dev 7.354 Underflow Overflow Integral 1.235e+05 

TofSeg[0] Cut1 **Entries** Mean 17.36 Std Dev 3.985 Underflow Overflow Integral 1.235e+05 

tofsegKurama[0] Cut1 **Entries** Mean 17.83 Std Dev 3.714 Underflow Overflow Integral 1.235e+05 

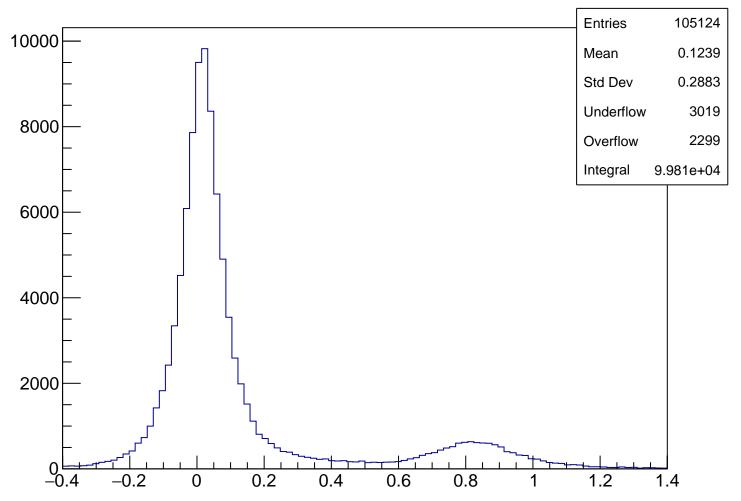
pKurama Cut2 105124 **Entries** Mean 1.045 5000 Std Dev 0.2462 Underflow 0 4000 Overflow 55 Integral 1.051e+05 3000 2000 1000 0, 0.2 0.6 8.0 1.2 1.6

1.4

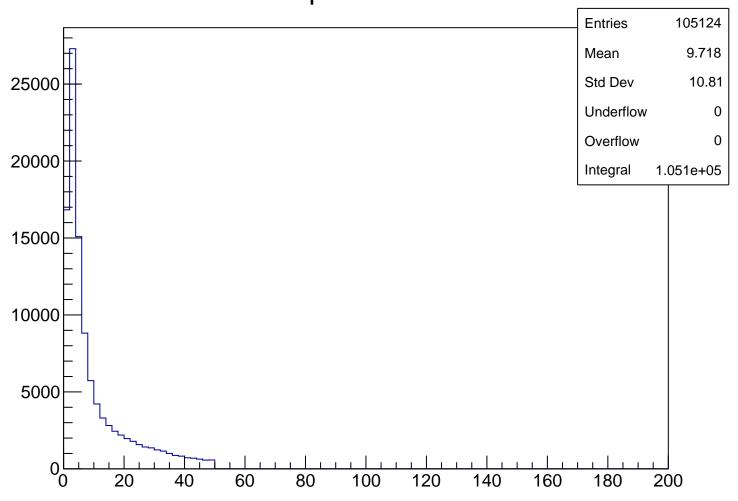
1.8

0.4

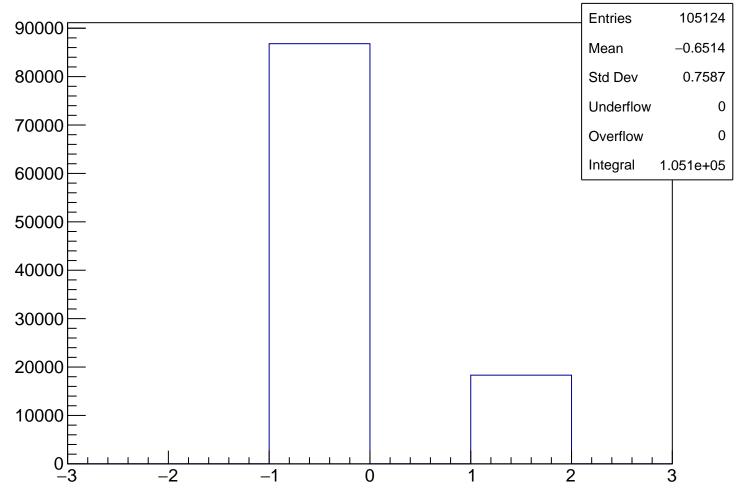
m2 Cut2



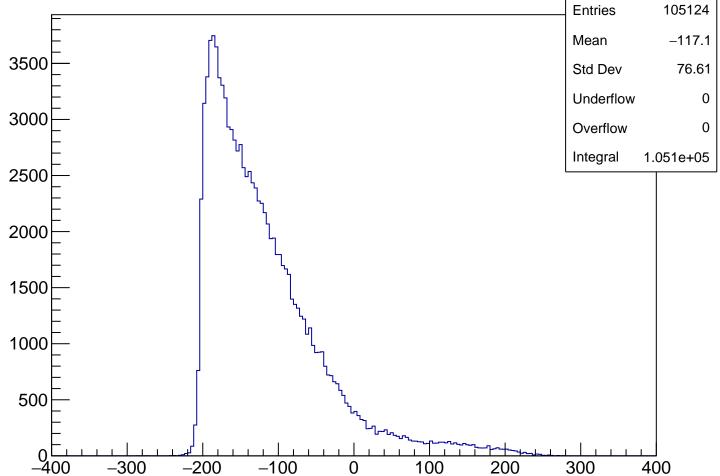
chisqrKurama Cut2



qKurama Cut2



vpx[1] Cut2

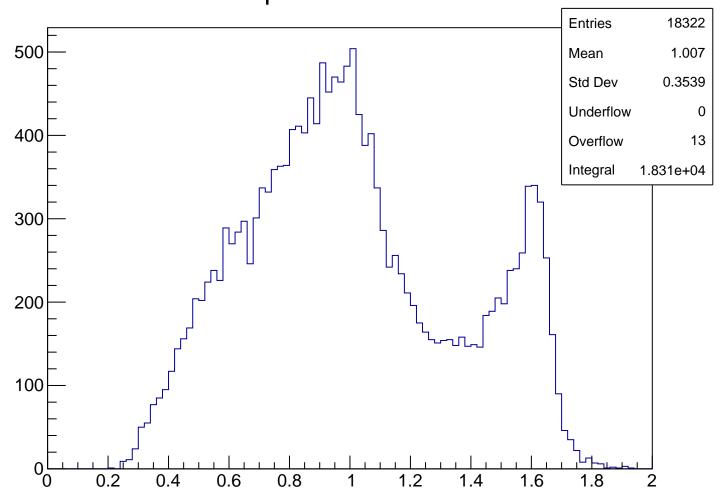


vpseg[1] Cut2 105124 **Entries** 10000 Mean 19.64 Std Dev 7.302 Underflow 0 8000 Overflow 0 Integral 1.051e+05 6000 4000 2000 0 10 20 30 40 50 60

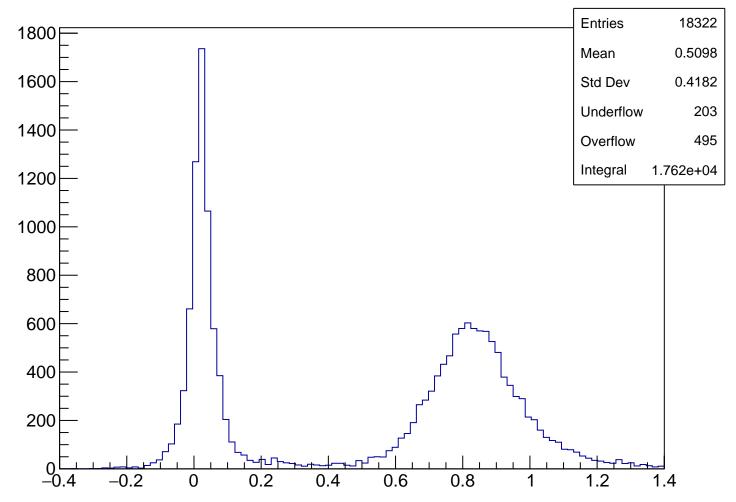
TofSeg[0] Cut2 **Entries** Mean 17.55 Std Dev 3.803 Underflow Overflow Integral 1.051e+05 

tofsegKurama[0] Cut2 **Entries** Mean 17.97 Std Dev 3.553 Underflow Overflow Integral 1.051e+05 

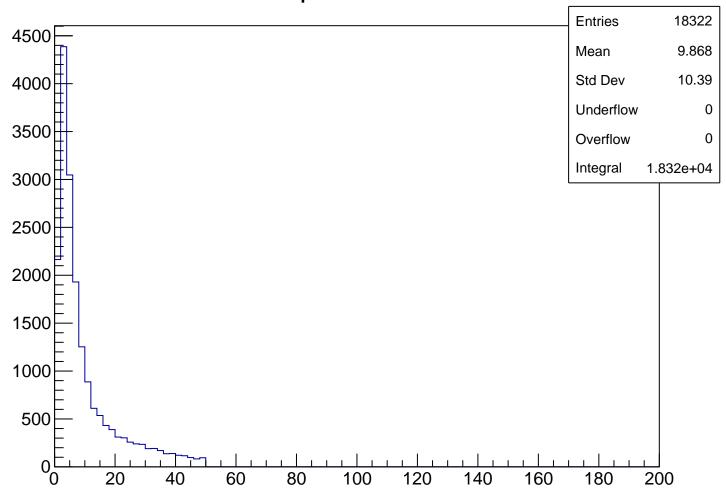
pKurama Cut3



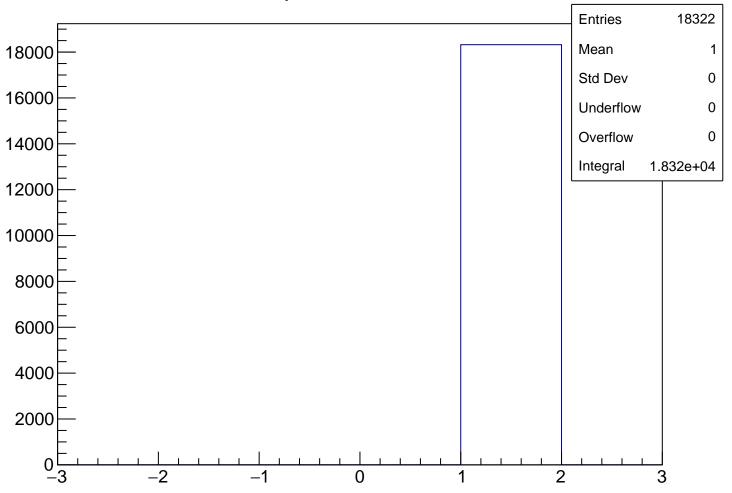
m2 Cut3



chisqrKurama Cut3



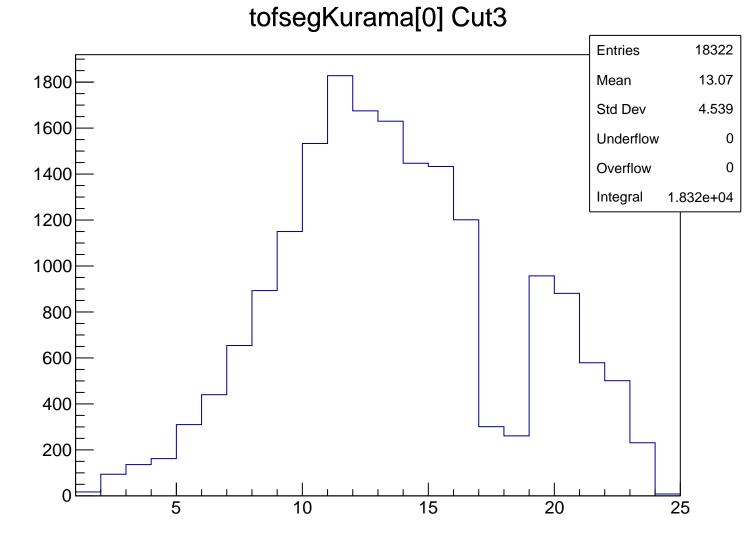
qKurama Cut3



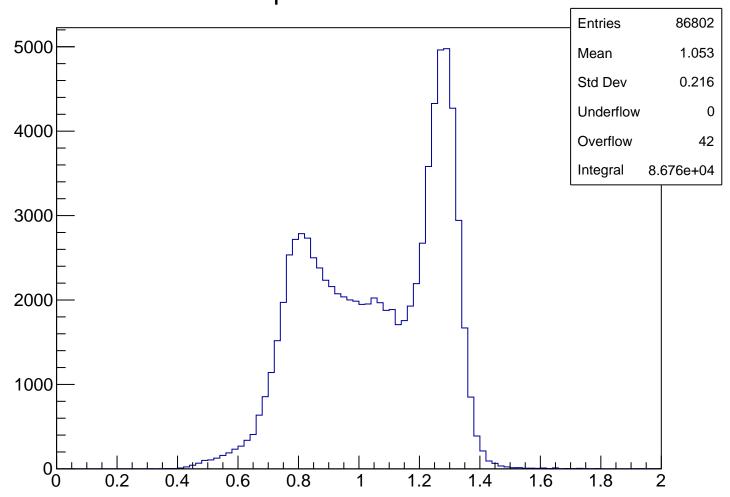
vpx[1] Cut3 18322 **Entries** 300 Mean -34.71Std Dev 109.6 Underflow 0 250 Overflow 0 Integral 1.832e+04 200 150 100 50 0 -400 -300 -200-100100 200 300 400

vpseg[1] Cut3 **Entries** 27.48 Mean Std Dev 10.45 Underflow Overflow Integral 1.832e+04 

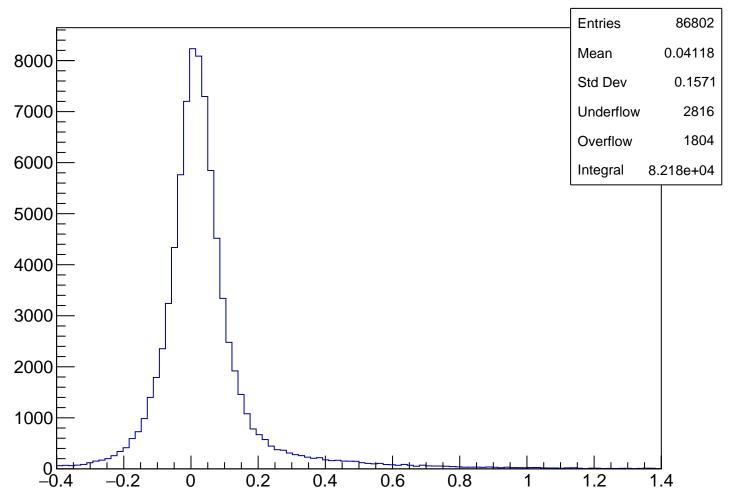
TofSeg[0] Cut3 **Entries** 12.84 Mean Std Dev 4.552 Underflow Overflow Integral 1.832e+04 



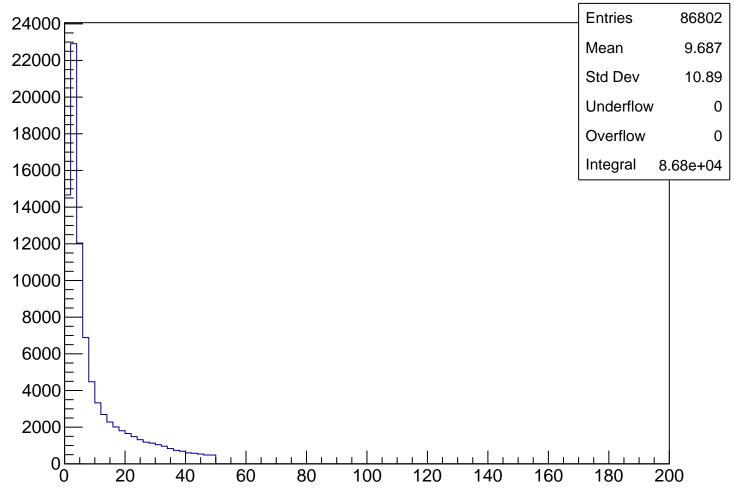
pKurama Cut4



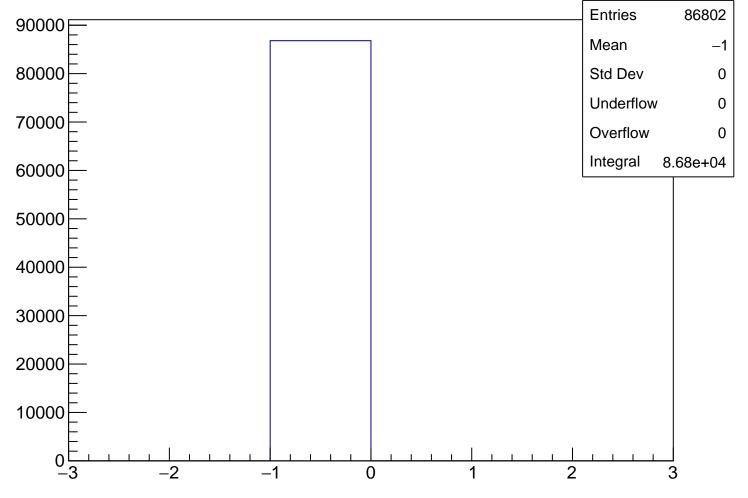
m2 Cut4



chisqrKurama Cut4



qKurama Cut4



vpx[1] Cut4 **Entries** 86802 Mean -134.53500 Std Dev 53.28 Underflow 0 3000 Overflow 0 Integral 8.68e+04 2500 2000 1500 1000 500

100

200

300

400

-300

<del>-</del>400

-200

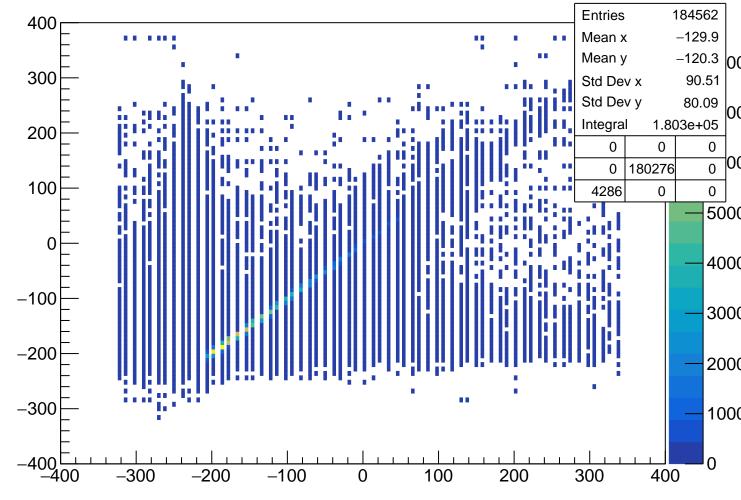
-100

vpseg[1] Cut4 **Entries** Mean 17.98 Std Dev 5.081 Underflow Overflow Integral 8.68e+04 

TofSeg[0] Cut4 **Entries** Mean 18.55 Std Dev 2.732 Underflow Overflow Integral 8.68e+04 

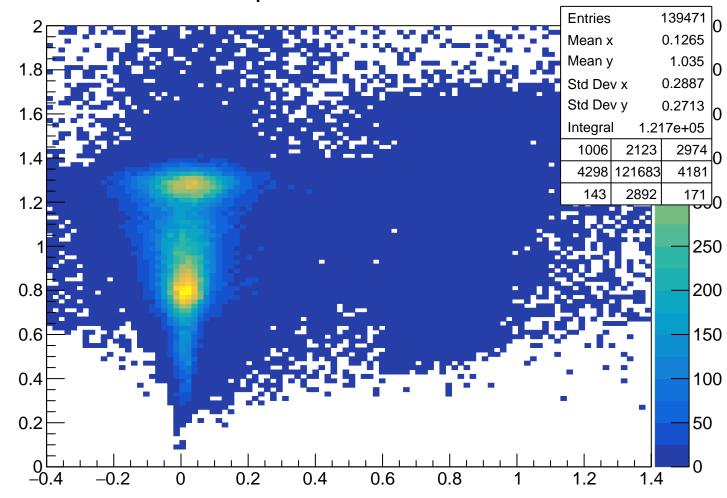
tofsegKurama[0] Cut4 **Entries** 19.01 Mean Std Dev 2.191 Underflow Overflow Integral 8.68e+04 

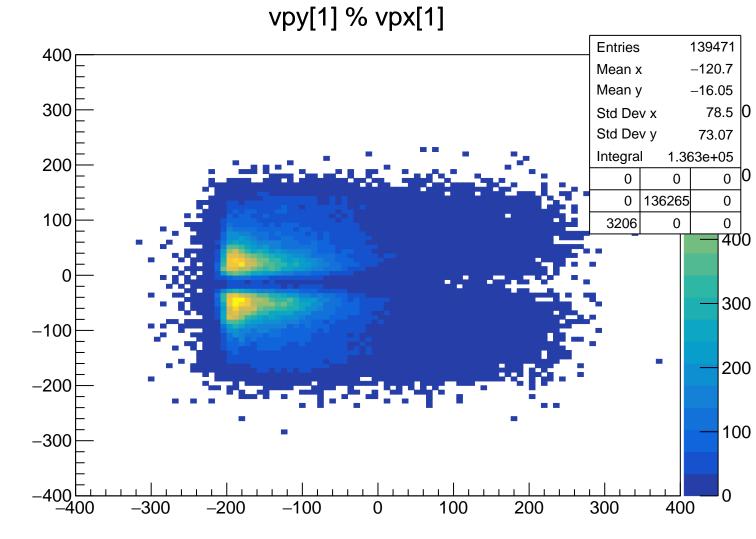
Sch Position by HitSegment % vpx[1]

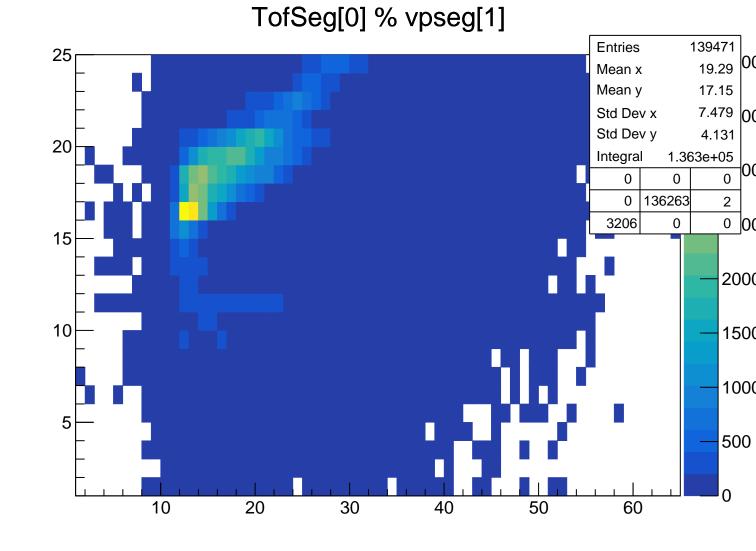


Sch Position by HitSegment % vpx[1] Cut1 **Entries** 138181 400 -119.5Mean x Mean y -119.6 300 77.65 Std Dev x Std Dev y 77.49 1.382e+05 Integral 200 0 0 0 100 138181 0 0 100 0 0 0 5000 0 4000 -1003000 -2002000 -3001000 -400 -400 -300-200-100100 200 300 400

pKurama % m2

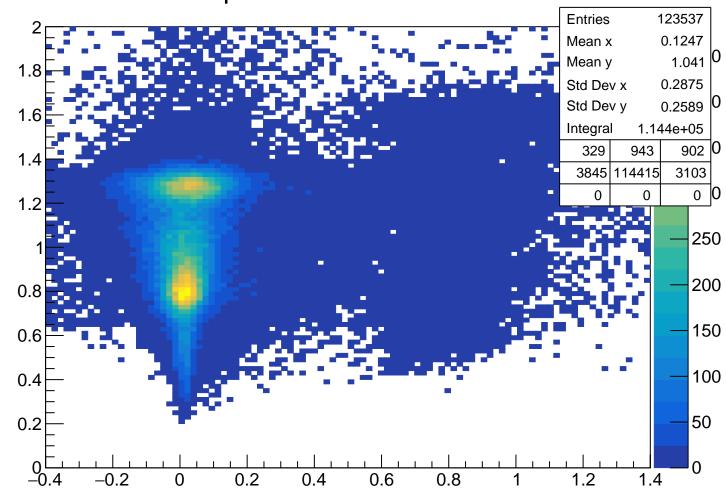


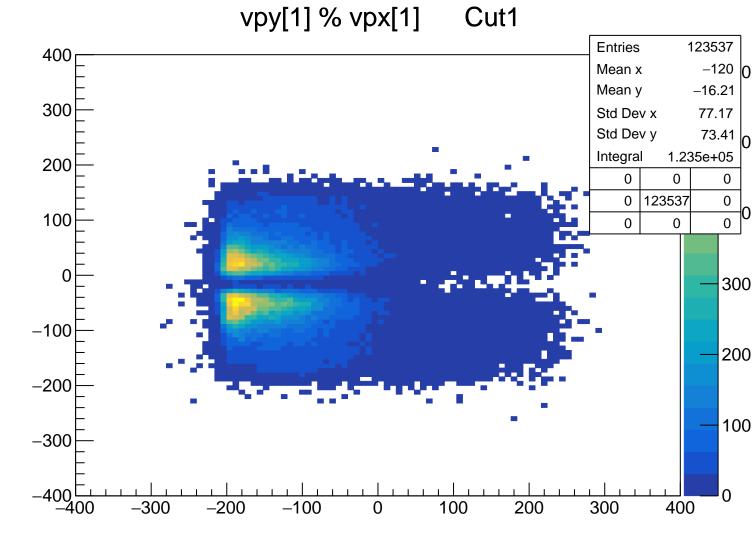




tofsegKurama[0] % vpseg[1] **Entries** 19.29 Mean x Mean y 17.68 Std Dev x 7.479 Std Dev y 3.837 Integral 1.363e+05 

pKurama % m2 Cut1

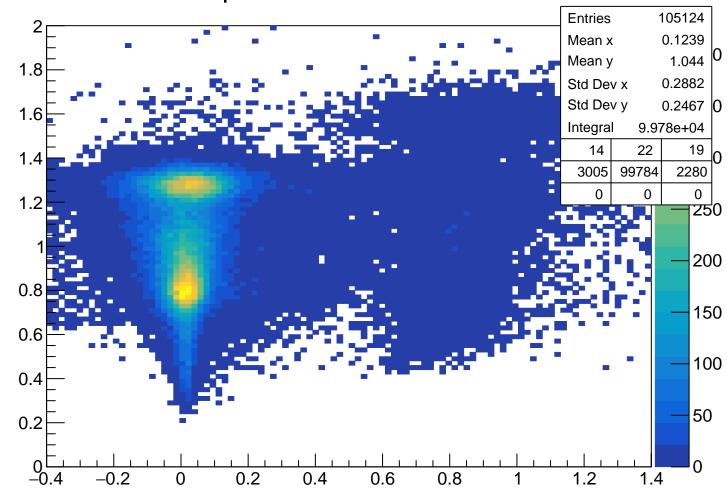


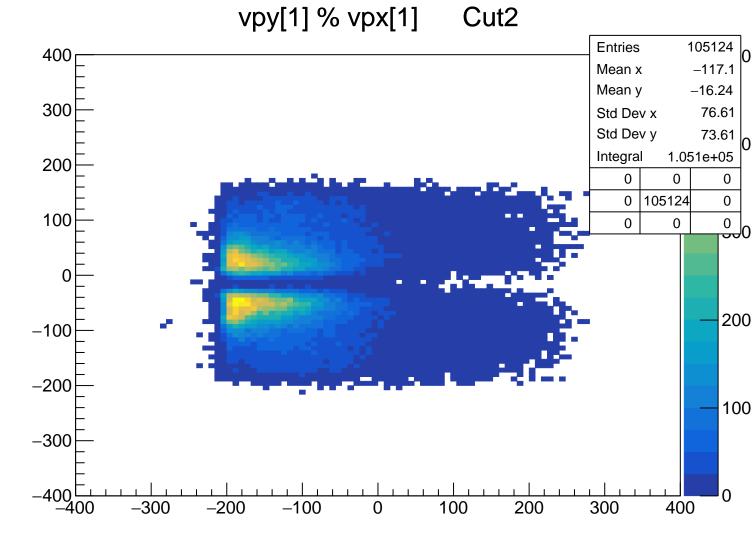


TofSeg[0] % vpseg[1] Cut1 **Entries** Mean x 19.36 Mean y 17.36 0( 7.354 Std Dev x Std Dev y 3.985 1.235e+05 Integral 

tofsegKurama[0] % vpseg[1] Cut1 **Entries** 19.36 Mean x Mean y 17.83 7.354 0( Std Dev x Std Dev y 3.714 Integral 1.235e+05 

pKurama % m2 Cut2

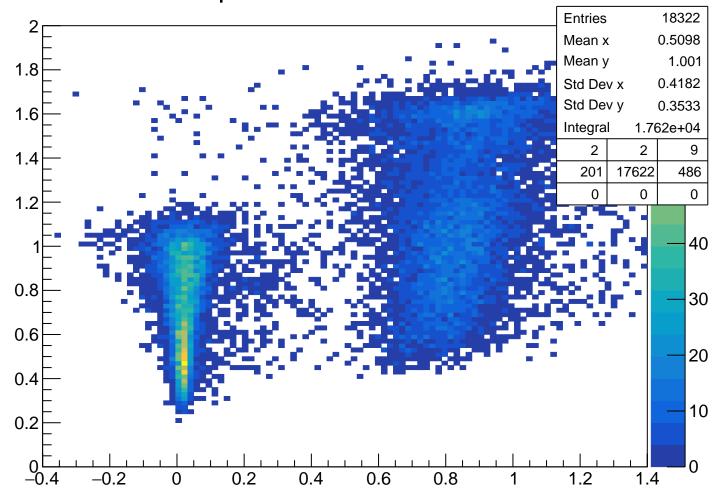


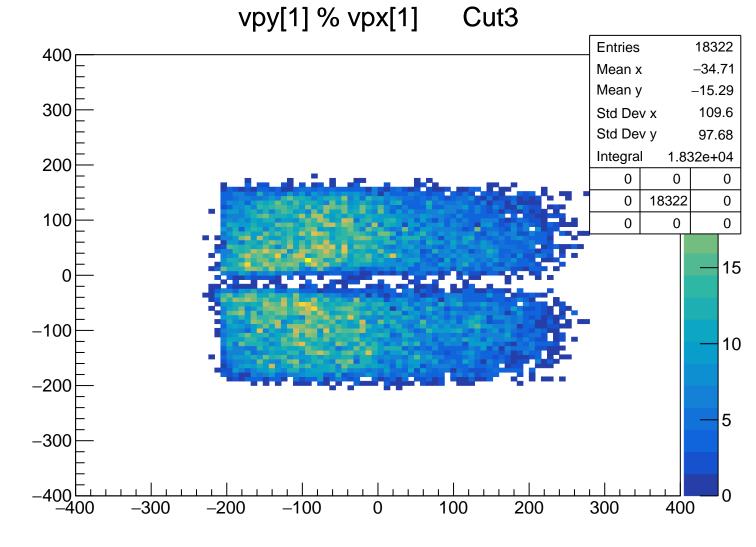


TofSeg[0] % vpseg[1] Cut2 **Entries** 19.64 Mean x Mean y 17.55 00 7.302 Std Dev x Std Dev y 3.803 Integral 1.051e+05 **0**( 0 00 

tofsegKurama[0] % vpseg[1] Cut2 **Entries** 19.64 Mean x Mean y 17.97 Std Dev x 7.302 Std Dev y 3.553 Integral 1.051e+05 

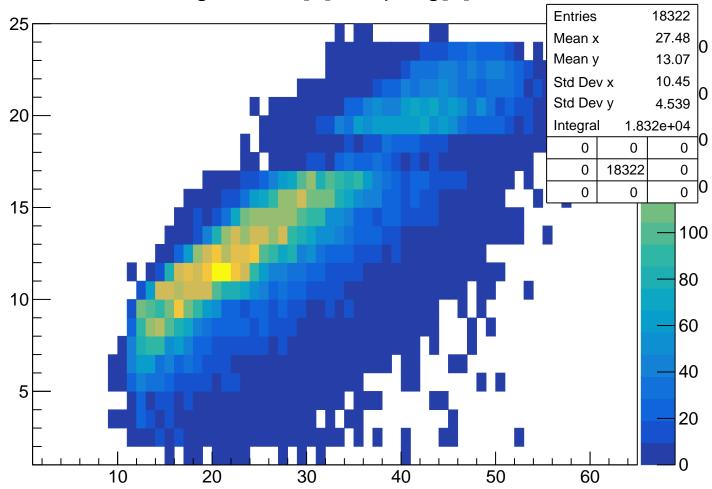
pKurama % m2 Cut3



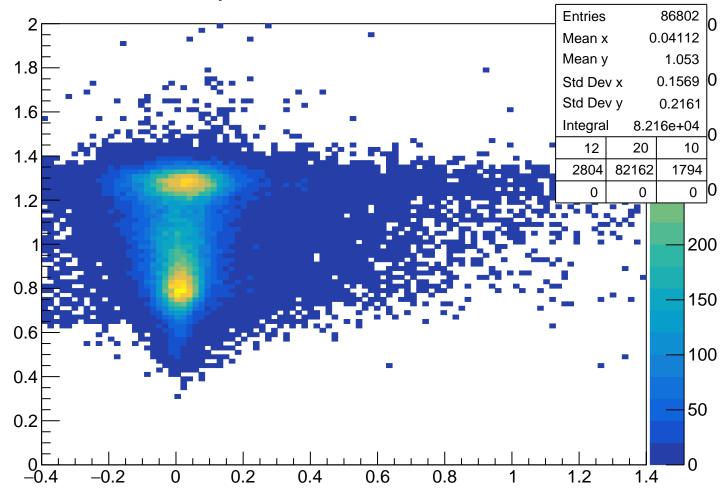


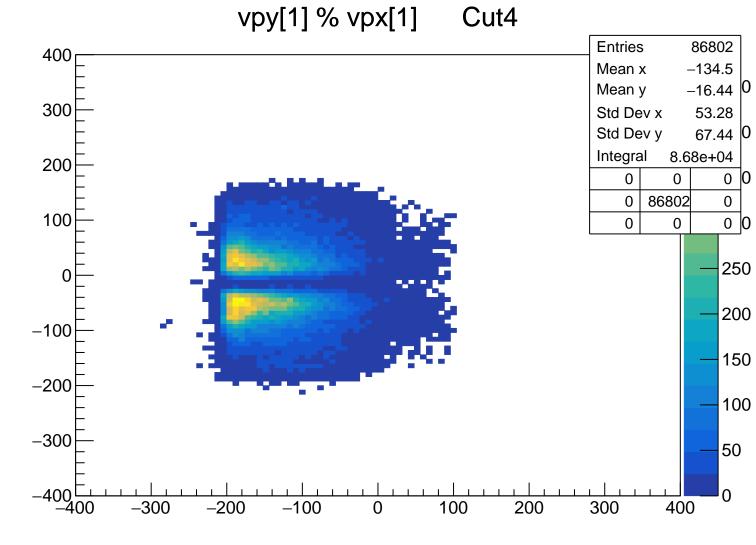
TofSeg[0] % vpseg[1] Cut3 **Entries** 27.48 Mean x 12.84 0 Mean y 10.45 Std Dev x Std Dev y 4.552 0 Integral 1.832e+04 0 0 

tofsegKurama[0] % vpseg[1] Cut3



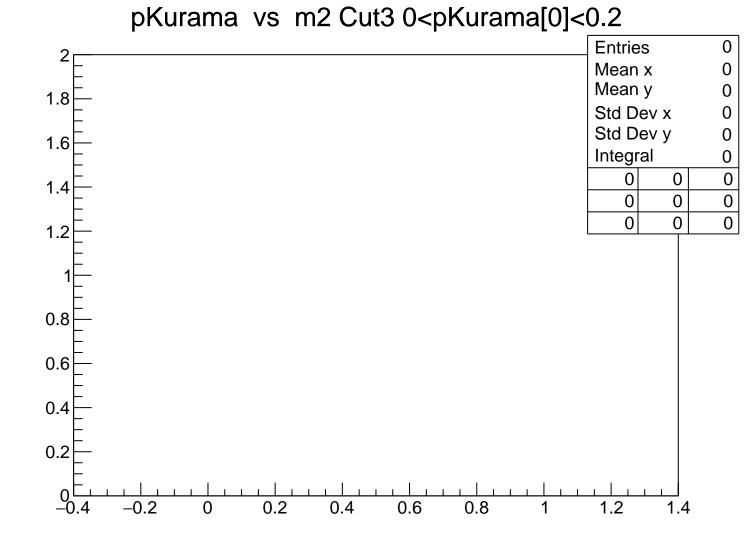
pKurama % m2 Cut4

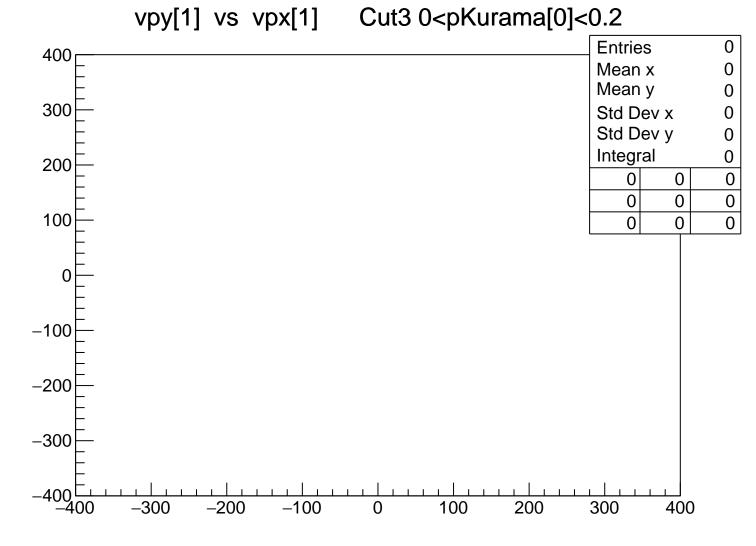




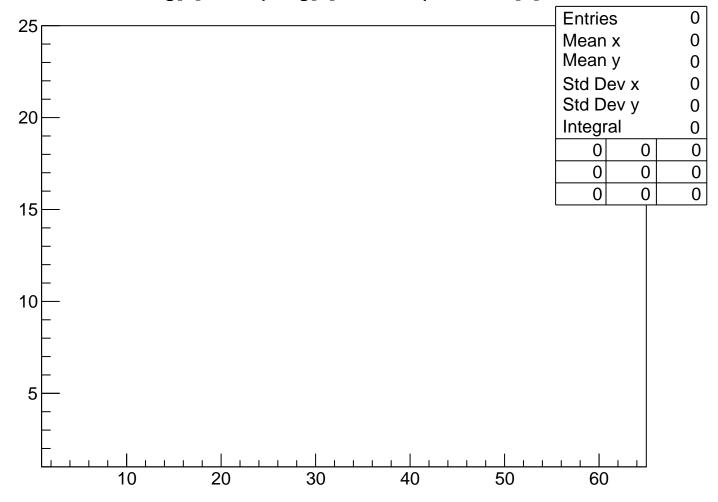
TofSeg[0] % vpseg[1] Cut4 **Entries** Mean x 17.98 Mean y 18.55 00 5.081 Std Dev x Std Dev y 2.732 Integral 8.68e+04 00 0 00 

tofsegKurama[0] % vpseg[1] Cut4 **Entries** Mean x 17.98 Mean y 19.01 Std Dev x 5.081 Std Dev y 2.191 Integral 8.68e+04 

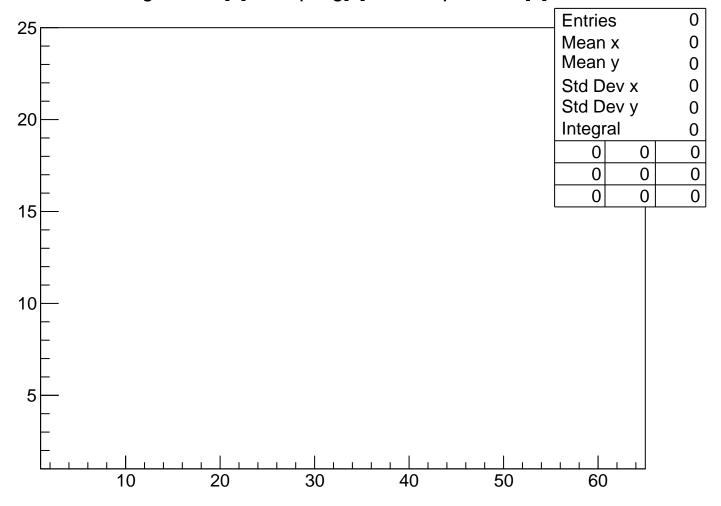




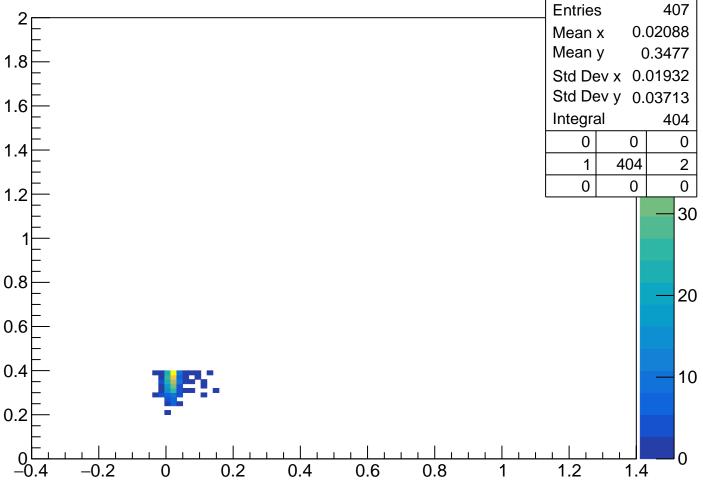
TofSeg[0] vs vpseg[1] Cut3 0<pKurama[0]<0.2



## tofsegKurama[0] vs vpseg[1] Cut3 0<pKurama[0]<0.2

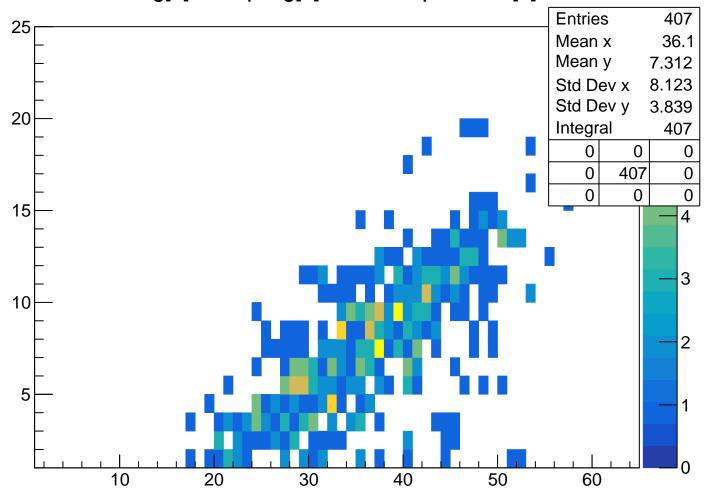


pKurama vs m2 Cut3 0.2<pKurama[0]<0.4

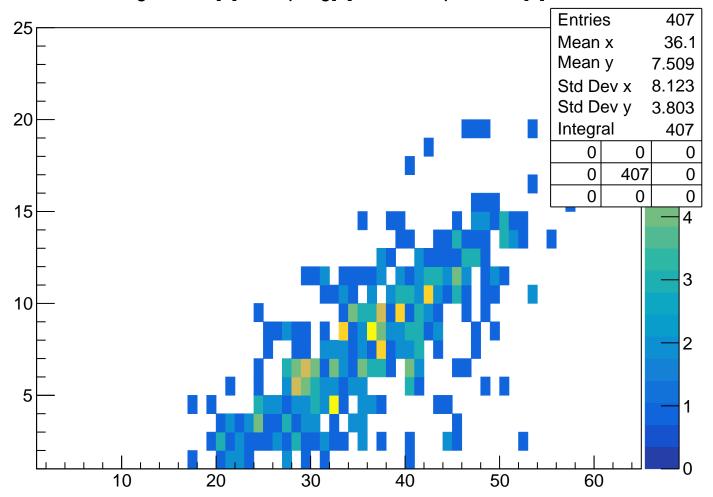


vpy[1] vs vpx[1] Cut3 0.2<pKurama[0]<0.4 **Entries** 407 400 Mean x 55.69 Mean y -16.6300 Std Dev x 85.18 Std Dev y 99.8 Integral 407 200 0 407 100 0 0 0 1.5 -100-2000.5 -300-400 -400 -300-200-100100 200 300 400

TofSeg[0] vs vpseg[1] Cut3 0.2<pKurama[0]<0.4



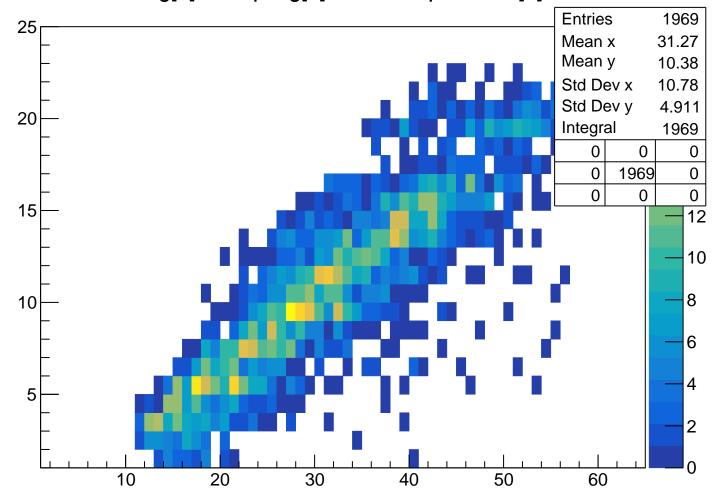
tofsegKurama[0] vs vpseg[1] Cut3 0.2<pKurama[0]<0.4



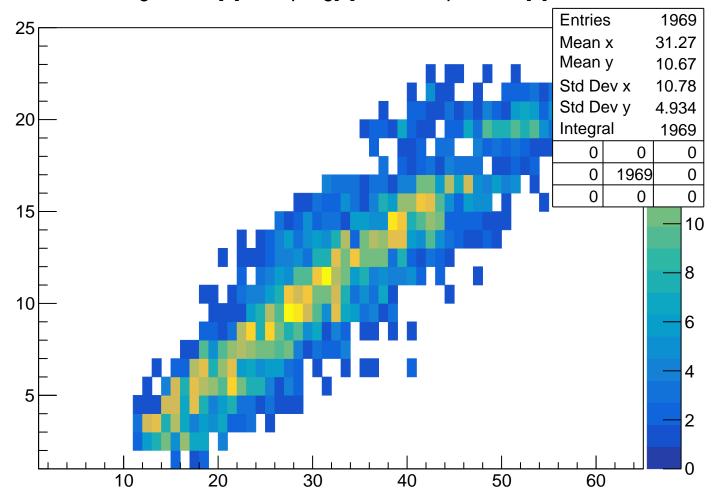
pKurama vs m2 Cut3 0.4<pKurama[0]<0.6 **Entries** 1969 2 0.1893 Mean x Mean y 0.5136 1.8 Std Dev x 0.3081 Std Dev y 0.05602 1.6 Integral 1940 0 0 0 1.4 1940 8 21 0 0 0 1.2 40 8.0 30 0.6 20 0.4 10 0.2 0 -0.4 -0.2 0.2 0.4 0.6 8.0 1.2 1.4 0

vpy[1] vs vpx[1] Cut3 0.4<pKurama[0]<0.6 **Entries** 1969 400 Mean x 4.902 Mean y -17.31300 Std Dev x 113.2 Std Dev y 97.76 Integral 1969 200 0 0 0 1969 100 0 0 3 -1002 -200-300-400 -400 -300-200-100100 200 300 400

TofSeg[0] vs vpseg[1] Cut3 0.4<pKurama[0]<0.6



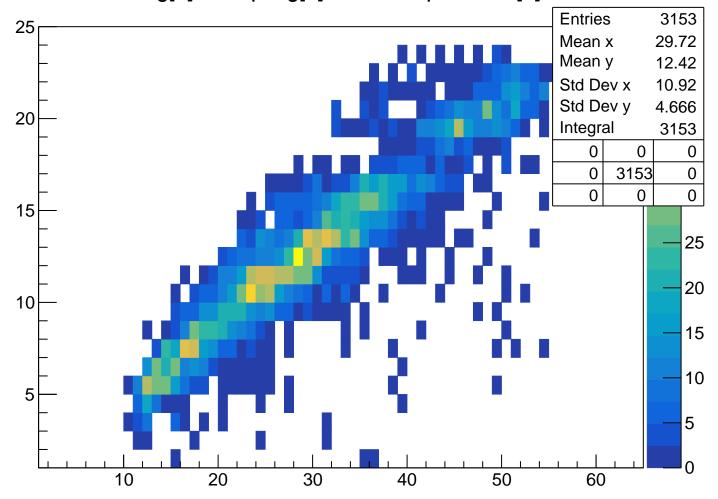
tofsegKurama[0] vs vpseg[1] Cut3 0.4<pKurama[0]<0.6



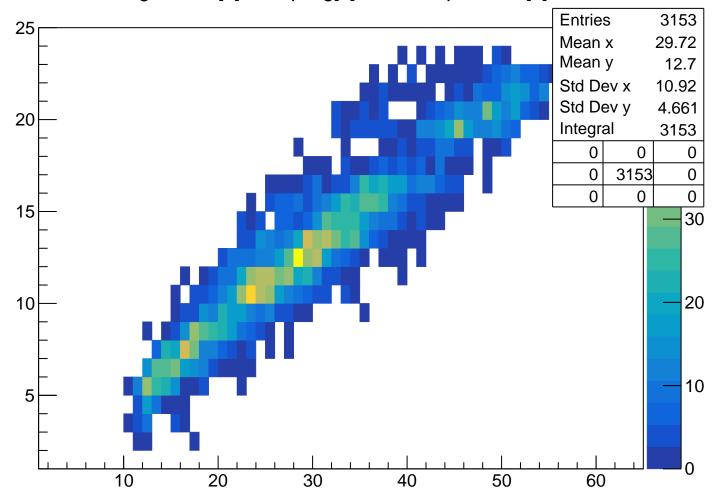
pKurama vs m2 Cut3 0.6<pKurama[0]<0.8 **Entries** 3153 2 0.3678 Mean x Mean y 0.706 1.8 Std Dev x 0.3954 Std Dev y 0.05765 1.6 Integral 3075 0 0 1.4 3075 36 42 0 0 0 1.2 30 8.0 20 0.6 0.4 10 0.2 0 -0.4 -0.2 0.2 0.4 0.6 8.0 1.2 1.4 0

vpy[1] vs vpx[1] Cut3 0.6<pKurama[0]<0.8 **Entries** 3153 400 Mean x -11.12 Mean y -14.43300 Std Dev x 114.7 Std Dev y 98.61 Integral 3153 200 0 0 3153 100 0 0 4 -1003 -200-300-400 -400 -300-200-100100 200 300 400

TofSeg[0] vs vpseg[1] Cut3 0.6<pKurama[0]<0.8



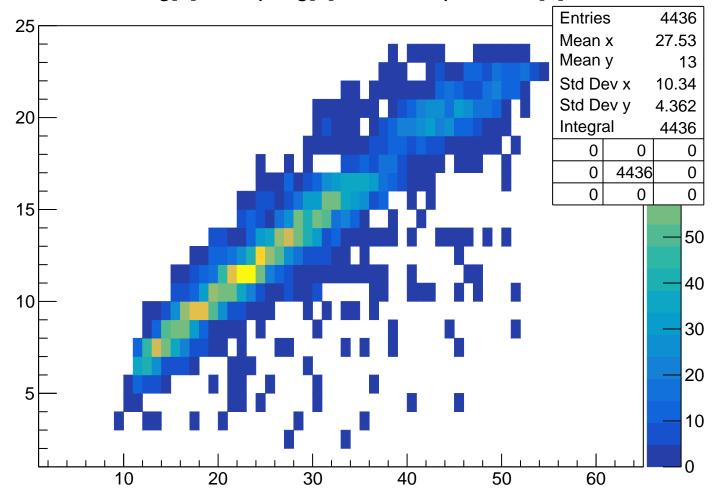
tofsegKurama[0] vs vpseg[1] Cut3 0.6<pKurama[0]<0.8



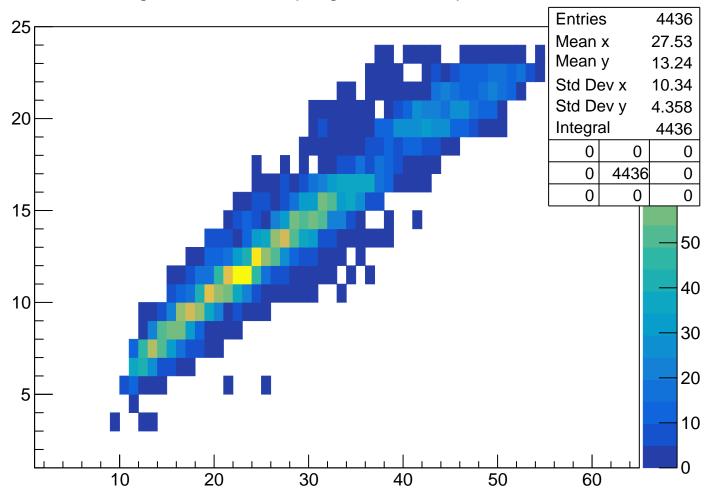
pKurama vs m2 Cut3 0.8<pKurama[0]<1 **Entries** 4436 2 0.37 Mean x Mean y 0.9034 1.8 Std Dev x 0.4028 Std Dev y 0.05754 1.6 Integral 4293 0 0 1.4 4293 61 82 0 0 0 1.2 25 20 8.0 15 0.6 10 0.4 5 0.2 0 -0.4 -0.2 0.2 0.4 0.6 8.0 1.2 1.4 0

Cut3 0.8<pKurama[0]<1 vpy[1] vs vpx[1] **Entries** 4436 400 Mean x -34.19Mean y -13.84300 Std Dev x 108.4 Std Dev y 97.62 Integral 4436 200 0 0 0 4436 100 0 0 0 0 5 4 -1003 -200-300-400 -400 -300-200-100100 200 300 400

TofSeg[0] vs vpseg[1] Cut3 0.8<pKurama[0]<1



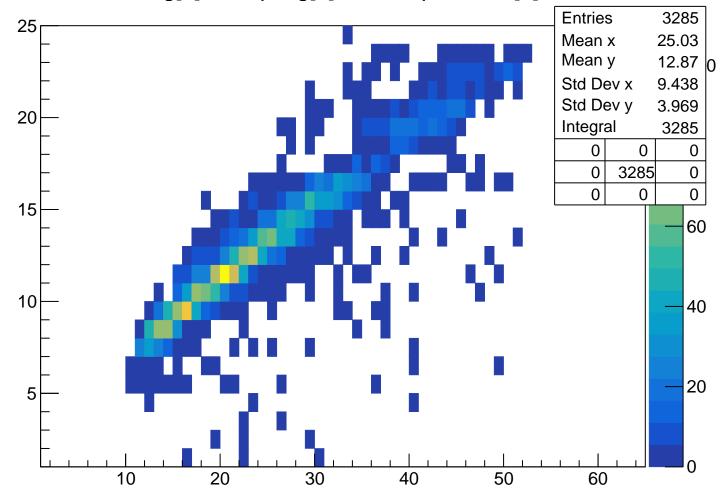
tofsegKurama[0] vs vpseg[1] Cut3 0.8<pKurama[0]<1



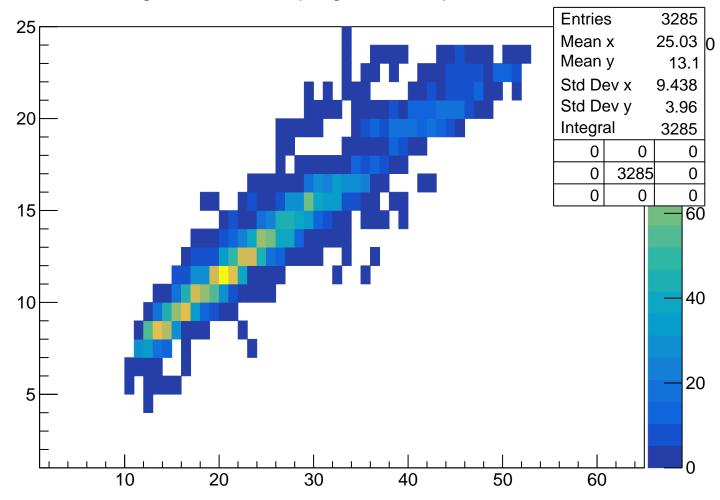
pKurama vs m2 Cut3 1<pKurama[0]<1.2 **Entries** 3285 2 0.5659 Mean x Mean y 1.084 1.8 Std Dev x 0.4042 Std Dev y 0.05647 1.6 Integral 3150 0 0 1.4 3150 46 89 0 1.2 25 20 8.0 15 0.6 10 0.4 5 0.2 0 -0.4 -0.2 0.2 0.4 0.6 8.0 1.2 1.4 0

Cut3 1<pKurama[0]<1.2 vpy[1] vs vpx[1] **Entries** 3285 400 Mean x -60.45Mean y -14.97300 Std Dev x 99.01 Std Dev y 95.57 Integral 3285 200 0 0 0 3285 100 0 0 0 0 5 4 -1003 -200-300-400 -400 -300-200-100100 200 300 400

TofSeg[0] vs vpseg[1] Cut3 1<pKurama[0]<1.2



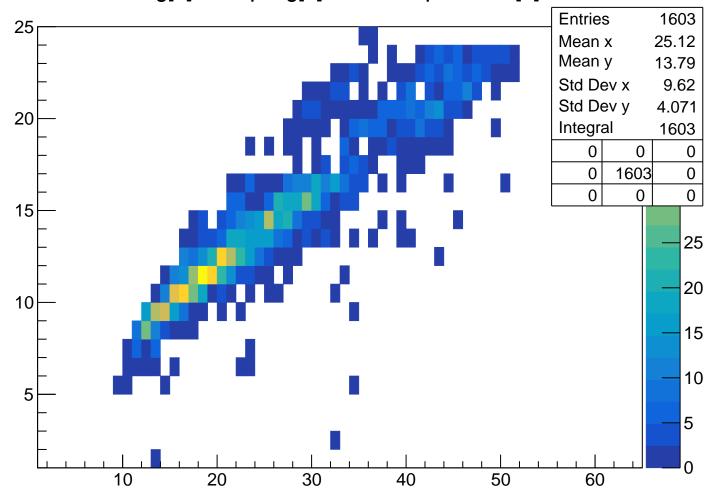
tofsegKurama[0] vs vpseg[1] Cut3 1<pKurama[0]<1.2



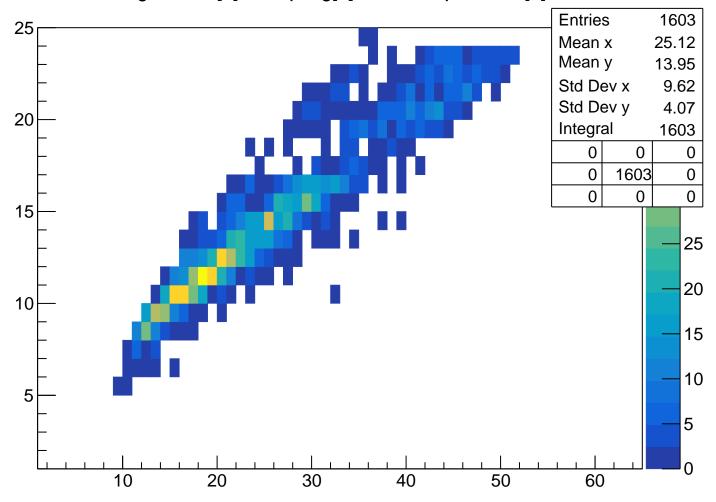
pKurama vs m2 Cut3 1.2<pKurama[0]<1.4 **Entries** 1603 2 0.8385 Mean x Mean y 1.295 1.8 Std Dev x 0.1691 Std Dev y 0.05874 1.6 Integral 1507 0 0 1.4 1507 14 82 0 0 1.2 8 6 8.0 0.6 4 0.4 2 0.2 0 -0.4 1.4 -0.2 0.2 0.4 0.6 8.0 1.2 0

vpy[1] vs vpx[1] Cut3 1.2<pKurama[0]<1.4 **Entries** 1603 400 Mean x -59.34Mean y -14.69300 Std Dev x 100.8 Std Dev y 98.23 Integral 1603 200 0 0 0 1603 100 0 0 3 -1002 -200-300-400 -400 400 -300-200-100100 200 300

TofSeg[0] vs vpseg[1] Cut3 1.2<pKurama[0]<1.4



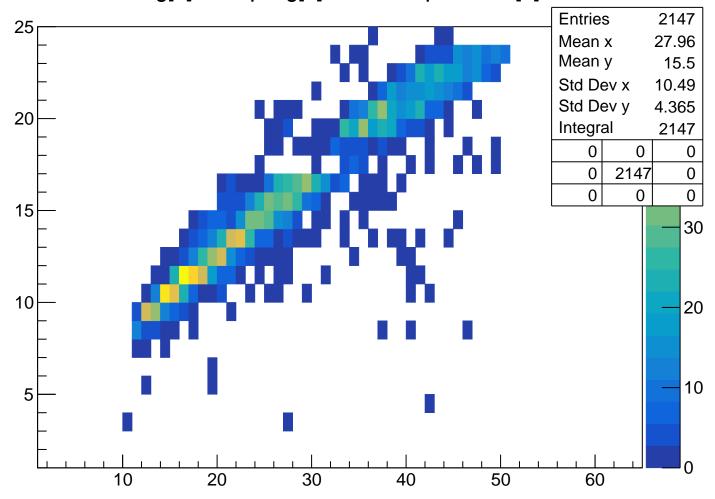
tofsegKurama[0] vs vpseg[1] Cut3 1.2<pKurama[0]<1.4



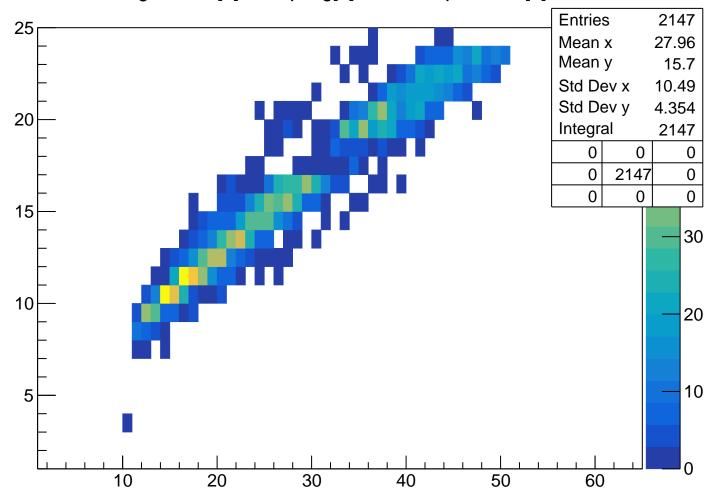
pKurama vs m2 Cut3 1.4<pKurama[0]<1.6 **Entries** 2147 2 0.8554 Mean x Mean y 1.514 1.8 Std Dev x 0.184 Std Dev y 0.05777 1.6 Integral 2018 0 0 1.4 2018 24 105 0 0 0 1.2 12 10 8.0 8 0.6 6 0.4 4 0.2 2 0 -0.4 1.4 -0.2 0.2 0.4 0.6 8.0 1.2 0

vpy[1] vs vpx[1] Cut3 1.4<pKurama[0]<1.6 **Entries** 2147 400 Mean x -29.66Mean y -22.49300 Std Dev x 110.1 Std Dev y 98.64 Integral 2147 200 0 0 0 2147 100 0 0 0 3 -1002 -200-300-400 -400 -300-200-100100 200 300 400

TofSeg[0] vs vpseg[1] Cut3 1.4<pKurama[0]<1.6



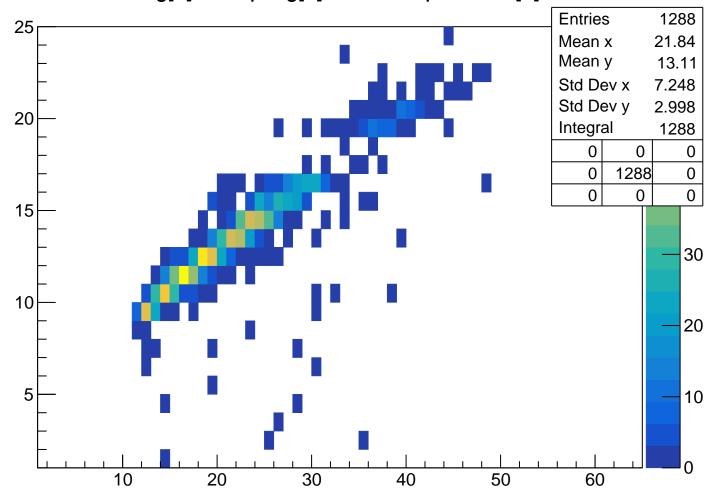
tofsegKurama[0] vs vpseg[1] Cut3 1.4<pKurama[0]<1.6



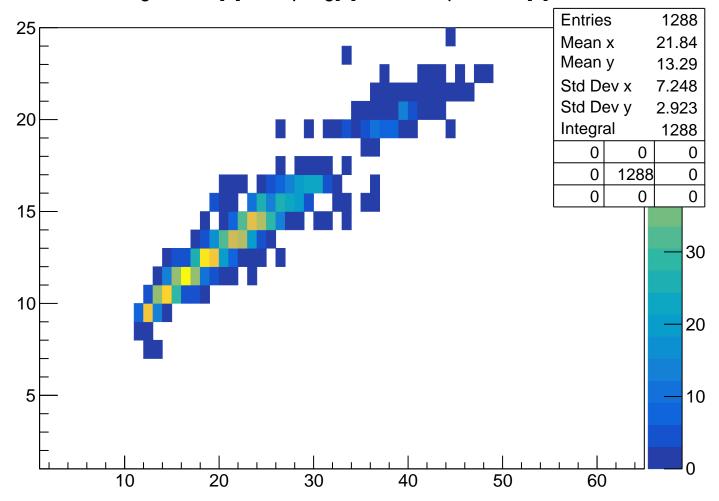
pKurama vs m2 Cut3 1.6<pKurama[0]<1.8 **Entries** 1288 2 Mean x 0.9027 Mean y 1.647 1.8 Std Dev x 0.1955 Std Dev y 0.03711 1.6 Integral 1217 0 0 1.4 1217 11 60 0 0 0 1.2 12 10 8.0 8 0.6 6 0.4 4 0.2 2 0 -0.4 1.4 -0.2 0 0.2 0.4 0.6 8.0 1.2

vpy[1] vs vpx[1] Cut3 1.6<pKurama[0]<1.8 **Entries** 1288 400 Mean x -94.03Mean y -8.536300 Std Dev x 76.09 Std Dev y 97.38 Integral 1288 200 0 0 0 1288 100 0 0 3 -1002 -200-300-400 -400 -300-200-100100 200 300 400

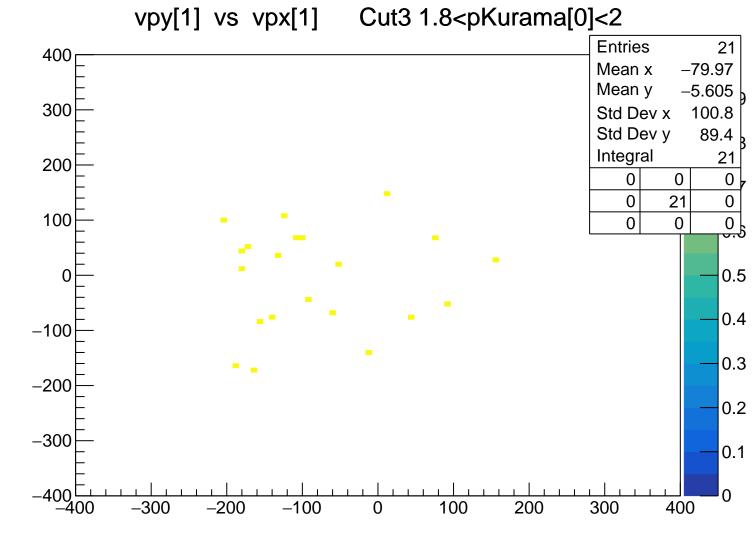
TofSeg[0] vs vpseg[1] Cut3 1.6<pKurama[0]<1.8



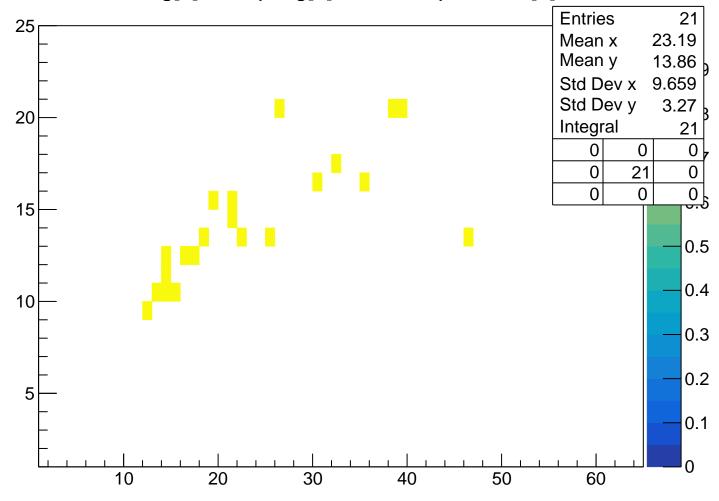
tofsegKurama[0] vs vpseg[1] Cut3 1.6<pKurama[0]<1.8



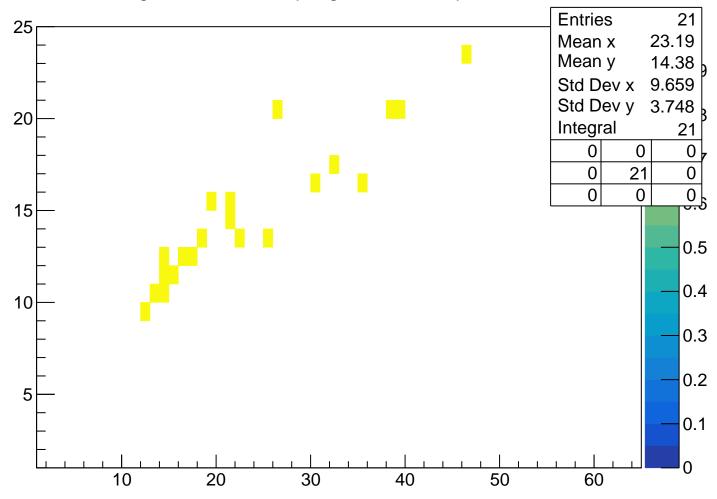
pKurama vs m2 Cut3 1.8<pKurama[0]<2 **Entries** 21 2 0.9506 Mean x Mean y 1.85 1.8 0.2435 Std Dev x Std Dev y 0.04008 1.6 Integral 18 0 0 0 1.4 3 0 18 0 0,5 0 1.2 0.5 8.0 0.4 0.6 0.3 0.4 0.2 0.1 0.2 0 -0.4 -0.2 0.2 0.4 0.6 8.0 1.2 1.4 0

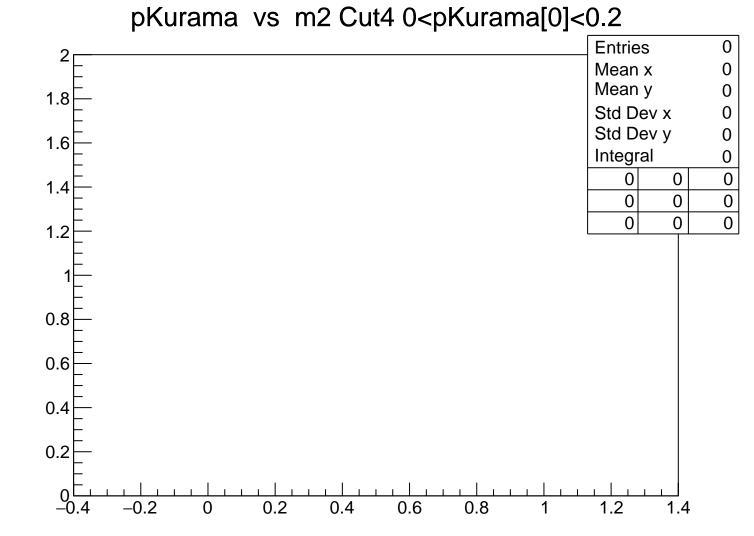


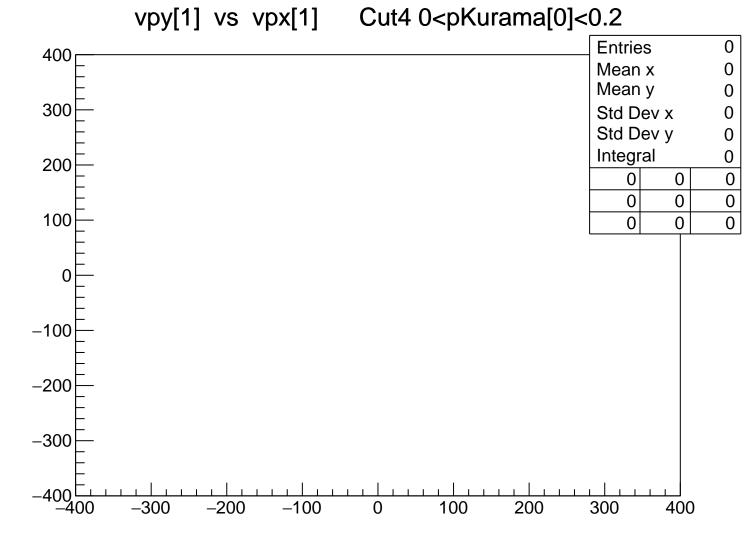
TofSeg[0] vs vpseg[1] Cut3 1.8<pKurama[0]<2



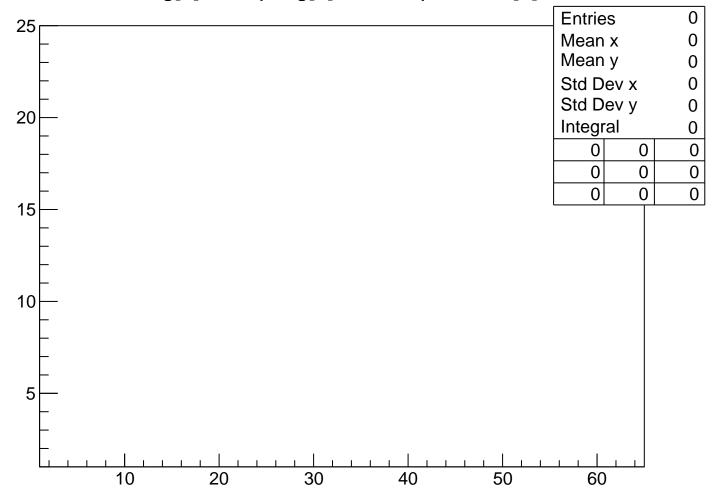
tofsegKurama[0] vs vpseg[1] Cut3 1.8<pKurama[0]<2



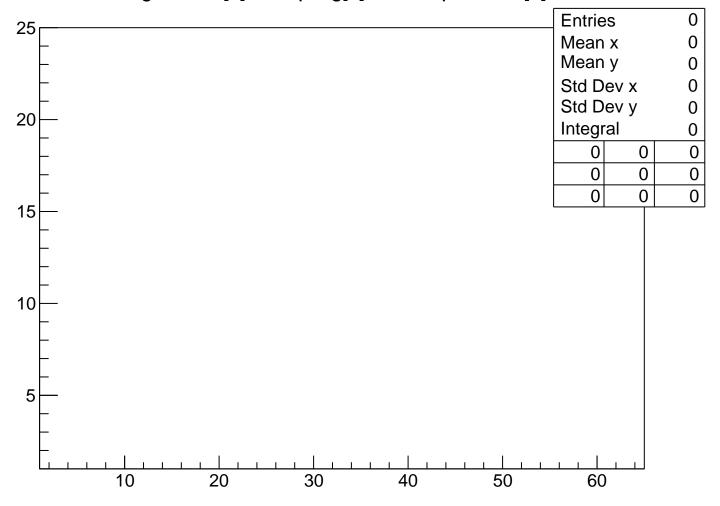




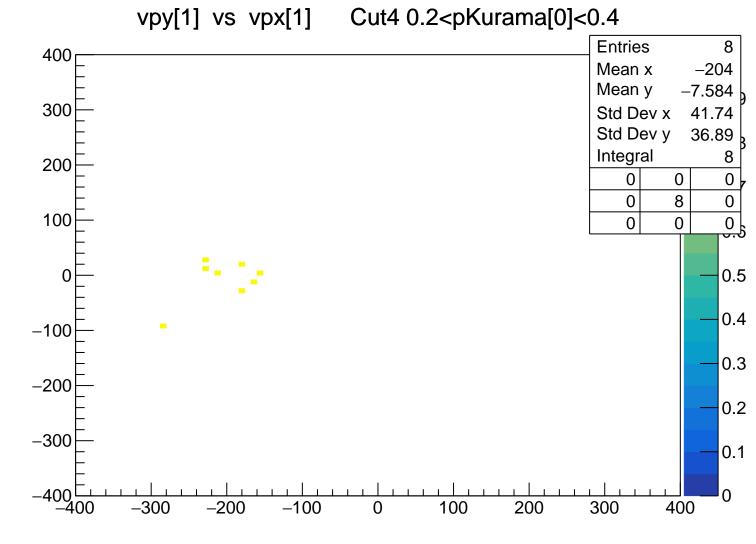
TofSeg[0] vs vpseg[1] Cut4 0<pKurama[0]<0.2



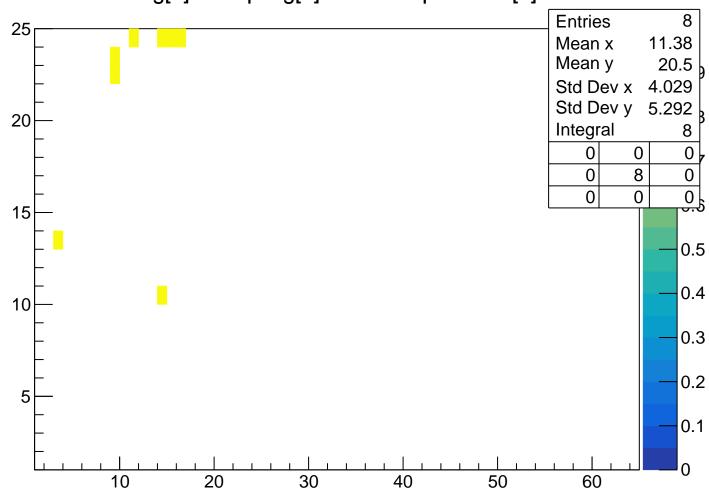
## tofsegKurama[0] vs vpseg[1] Cut4 0<pKurama[0]<0.2



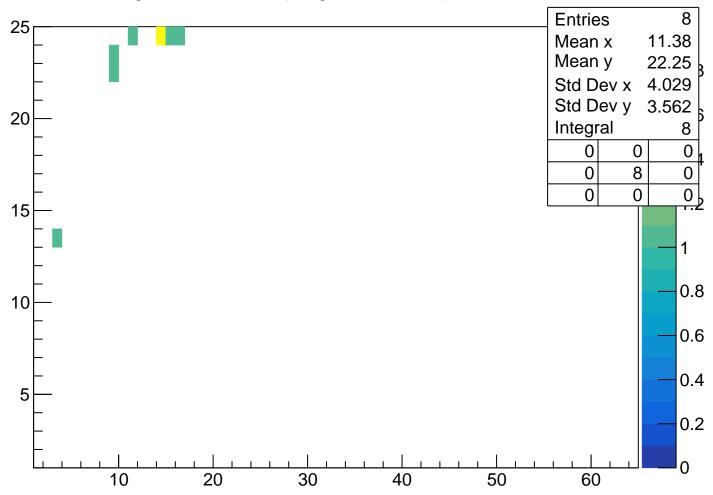
pKurama vs m2 Cut4 0.2<pKurama[0]<0.4 **Entries** 8 2 0.03148 Mean x Mean y 0.3678 1.8 Std Dev x 0.02007 Std Dev y 0.02897 1.6 Integral 0 0 0 1.4 0 0 0 1.2 1.5 8.0 0.6 0.4 0.5 0.2 0 -0.4 -0.20.2 0.4 0.6 8.0 1.2 1.4 0



TofSeg[0] vs vpseg[1] Cut4 0.2<pKurama[0]<0.4



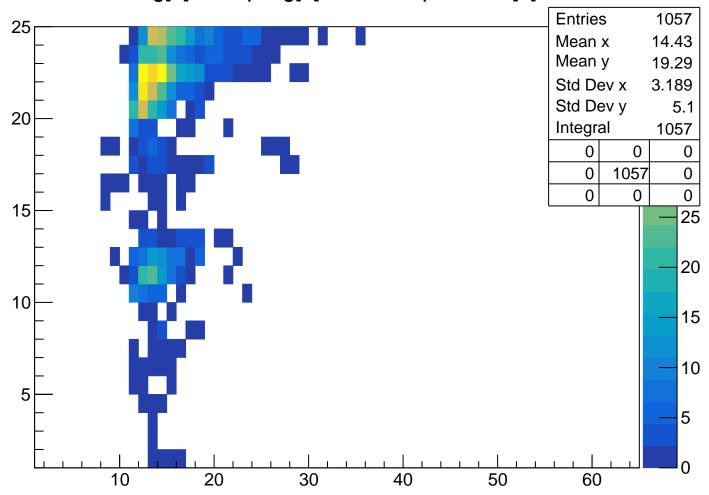
tofsegKurama[0] vs vpseg[1] Cut4 0.2<pKurama[0]<0.4



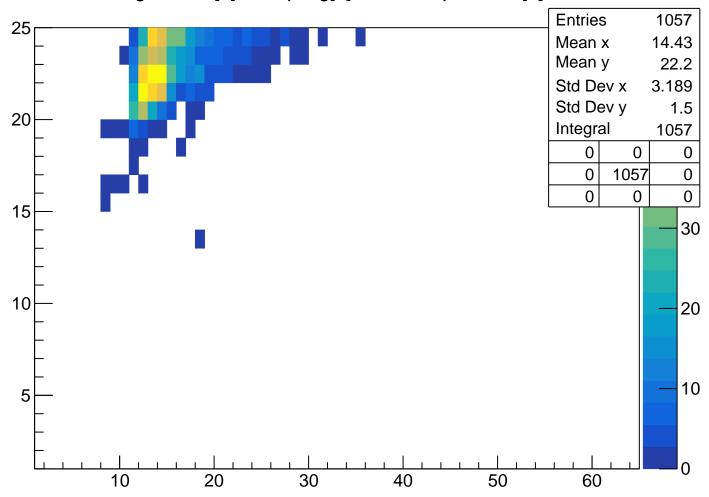
pKurama vs m2 Cut4 0.4<pKurama[0]<0.6 **Entries** 1057 2 0.0178 Mean x Mean y 0.5374 1.8 Std Dev x 0.08358 Std Dev y 0.04577 1.6 Integral 1002 0 0 0 1.4 1002 31 24 0 0 0 1.2 25 20 8.0 15 0.6 10 0.4 5 0.2 0 -0.4 -0.2 0 0.2 0.4 0.6 8.0 1.2 1.4

vpy[1] vs vpx[1] Cut4 0.4<pKurama[0]<0.6 **Entries** 1057 400 Mean x -171.8Mean y -14.76300 Std Dev x 33.48 Std Dev y 56.45 Integral 1057 200 0 0 0 1057 100 0 0 <u>15</u> 0 10 -100-2005 -300-400 -400 -300-200-100100 200 300 400

TofSeg[0] vs vpseg[1] Cut4 0.4<pKurama[0]<0.6



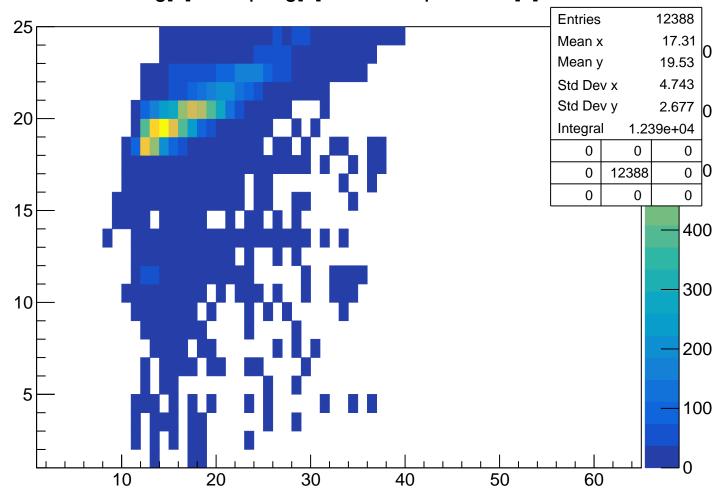
tofsegKurama[0] vs vpseg[1] Cut4 0.4<pKurama[0]<0.6



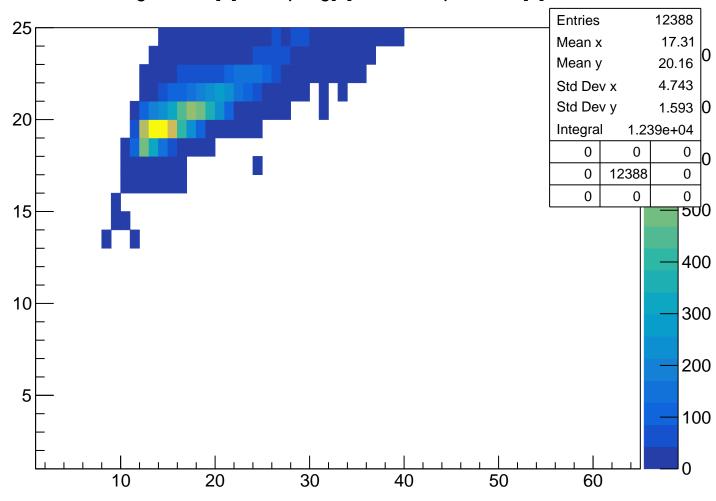
pKurama vs m2 Cut4 0.6<pKurama[0]<0.8 **Entries** 12388 2 0.02697 Mean x Mean y 0.7392 1.8 0.1025 0 Std Dev x Std Dev y 0.04752 1.6 Integral 1.178e+04 0 0 0 1.4 422 11776 190 0 0 0 0 1.2 200 8.0 150 0.6 100 0.4 50 0.2 0 -0.4 1.4 -0.2 0.2 0.4 0.6 8.0 1.2 0

Cut4 0.6<pKurama[0]<0.8 vpy[1] vs vpx[1] **Entries** 12388 400 Mean x -141.4Mean y -18.07300 49.72 Std Dev x Std Dev y 57.28 Integral 1.239e+04 200 0 0 0 12388 0 100 0 0 0 60 0 -10040 -20020 -300-400 -400 400 -300-200 -100100 200 300

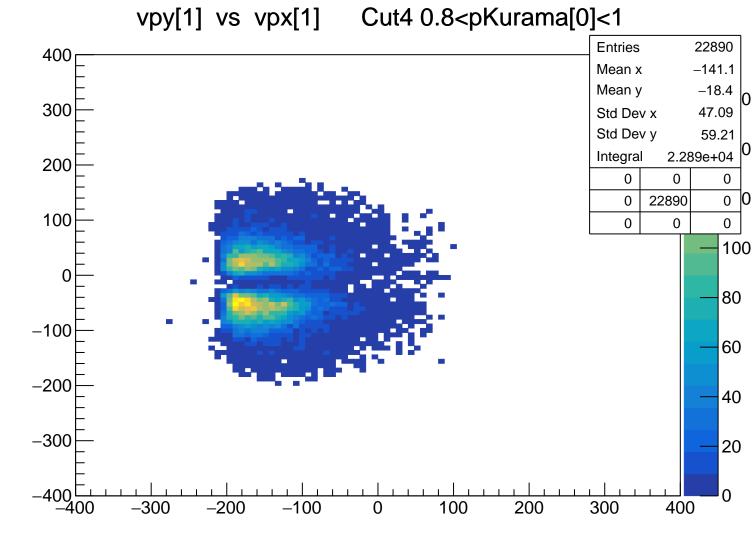
TofSeg[0] vs vpseg[1] Cut4 0.6<pKurama[0]<0.8



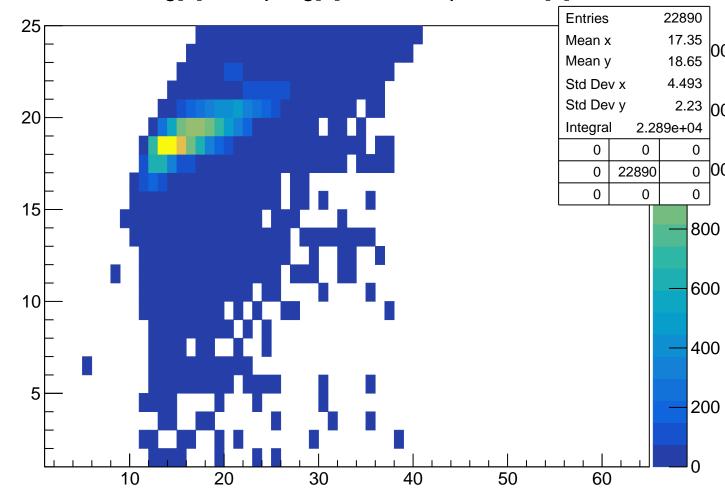
tofsegKurama[0] vs vpseg[1] Cut4 0.6<pKurama[0]<0.8



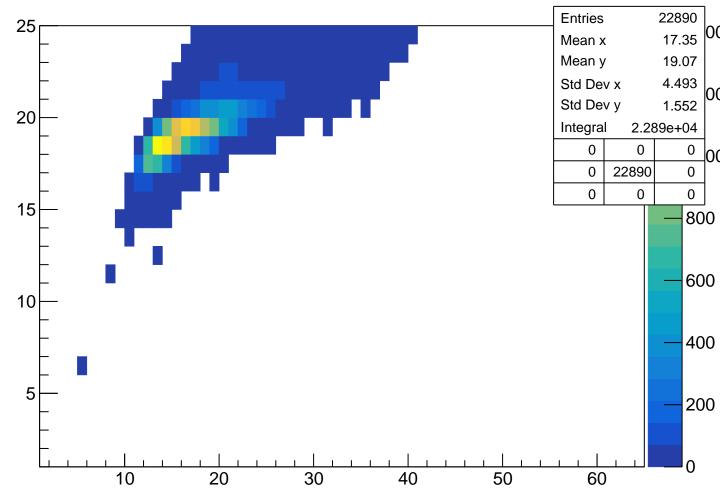
pKurama vs m2 Cut4 0.8<pKurama[0]<1 **Entries** 22890 2 0.03386 Mean x 0.893 Mean y 1.8 0.1233 Std Dev x Std Dev y 0.05818 1.6 Integral 2.171e+04 0 0 0 1.4 425 0 753 21712 0 0 0 1.2 200 8.0 150 0.6 100 0.4 50 0.2 0 -0.4 -0.2 0.2 0.4 0.6 8.0 1.2 1.4 0



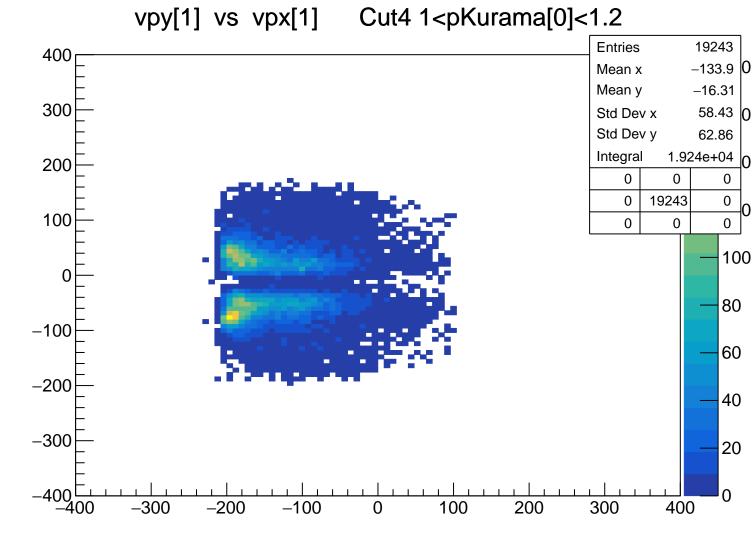
TofSeg[0] vs vpseg[1] Cut4 0.8<pKurama[0]<1



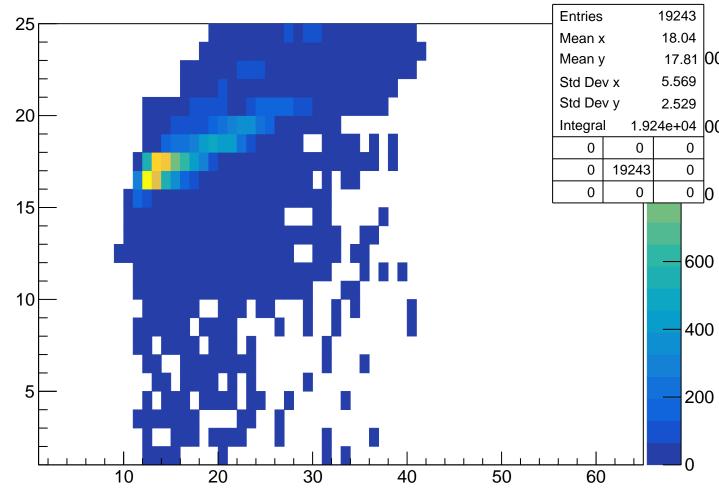
tofsegKurama[0] vs vpseg[1] Cut4 0.8<pKurama[0]<1



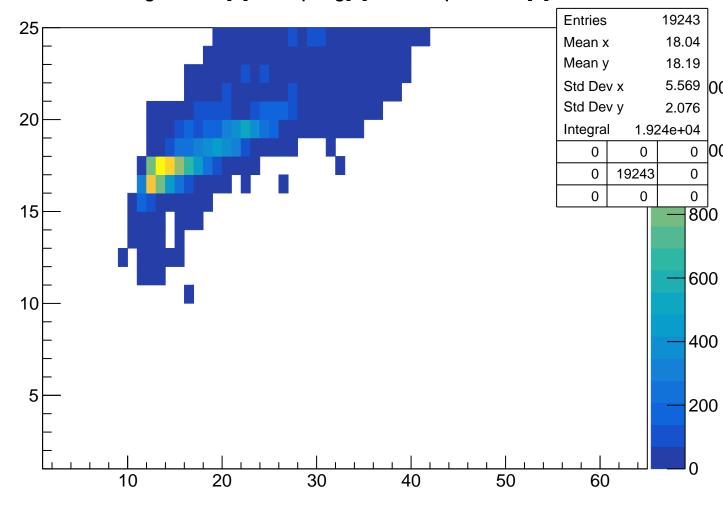
pKurama vs m2 Cut4 1<pKurama[0]<1.2 **Entries** 19243 2 0.03853 Mean x Mean y 1.1 1.8 0.1716 Std Dev x Std Dev y 0.05869 1.6 Integral 1.815e+04 0 0 0 1.4 714 18154 375 0 1.2 100 80 8.0 60 0.6 40 0.4 20 0.2 0 -0.4 -0.2 0.2 0.4 0.6 8.0 1.2 1.4 0



TofSeg[0] vs vpseg[1] Cut4 1<pKurama[0]<1.2



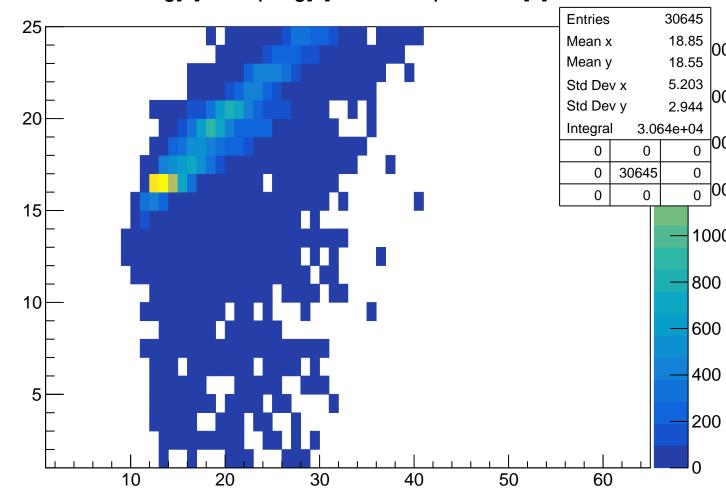
tofsegKurama[0] vs vpseg[1] Cut4 1<pKurama[0]<1.2



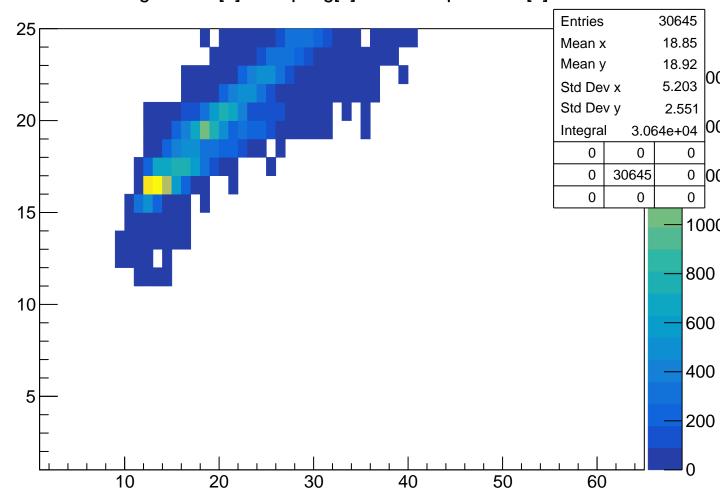
pKurama vs m2 Cut4 1.2<pKurama[0]<1.4 **Entries** 30645 2 0.054 Mean x Mean y 1.281 1.8 0.1853 Std Dev x 0.04338 Std Dev y 1.6 Integral 2.903e+04 0 0 0 1.4 857 29026 762 0 0 0 1.2 200 150 8.0 0.6 100 0.4 50 0.2 0 -0.4 1.4 -0.2 0.2 0.4 0.6 8.0 1.2 0

Cut4 1.2<pKurama[0]<1.4 vpy[1] vs vpx[1] **Entries** 30645 400 -125.3Mean x Mean y -14.41300 54.55 Std Dev x Std Dev y 79.12 Integral 3.064e+04 200 0 0 0 0 30645 0 100 0 0 0 80 0 60 -10040 -20020 -300-400 -400 -300-200-100100 200 300 400

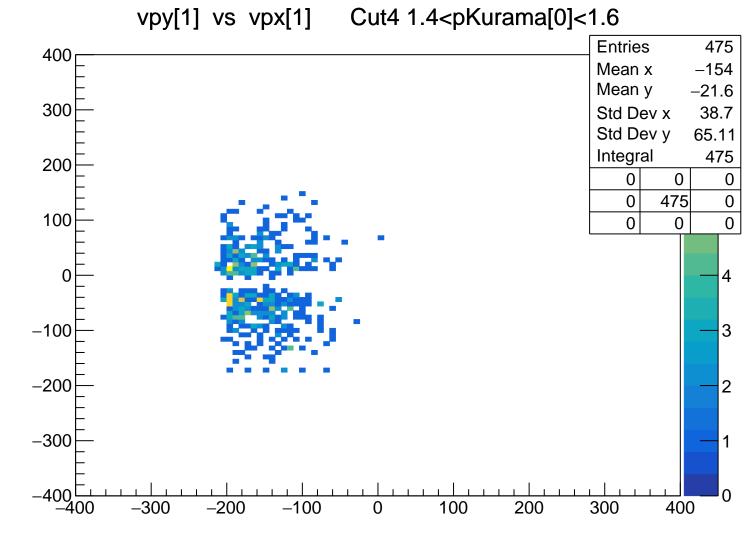
TofSeg[0] vs vpseg[1] Cut4 1.2<pKurama[0]<1.4



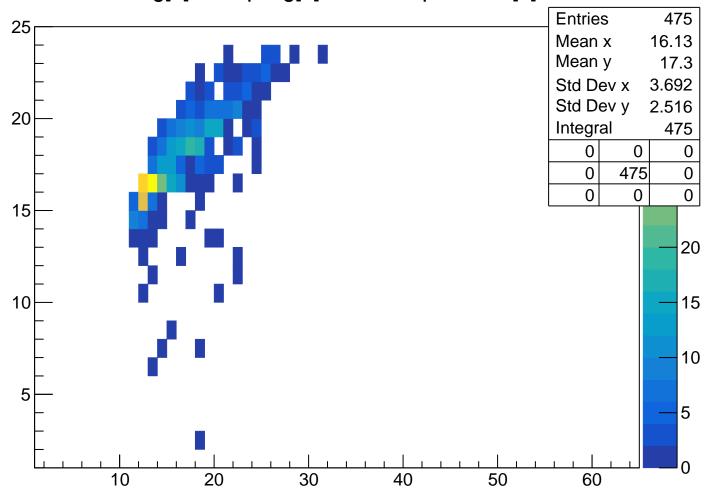
tofsegKurama[0] vs vpseg[1] Cut4 1.2<pKurama[0]<1.4



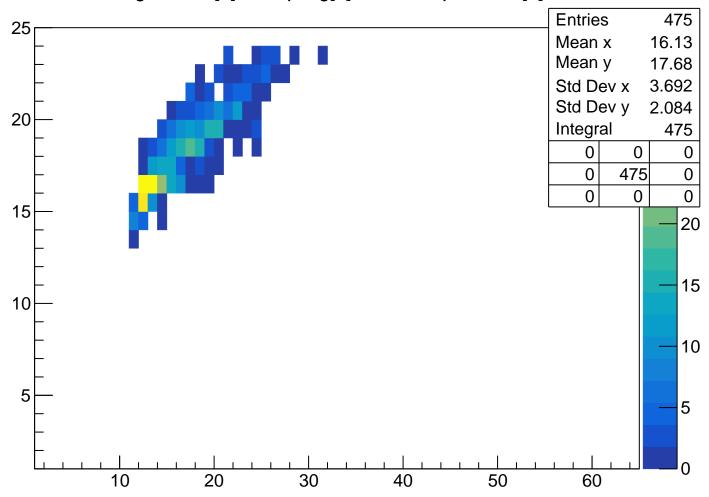
pKurama vs m2 Cut4 1.4<pKurama[0]<1.6 **Entries** 475 2 0.08004 Mean x Mean y 1.441 1.8 Std Dev x 0.1981 Std Dev y 0.04196 1.6 Integral 434 0 0 1.4 23 434 18 0 0 0 1.2 8 8.0 6 0.6 4 0.4 2 0.2 0 -0.4 1.4 -0.2 0 0.2 0.4 0.6 8.0 1.2



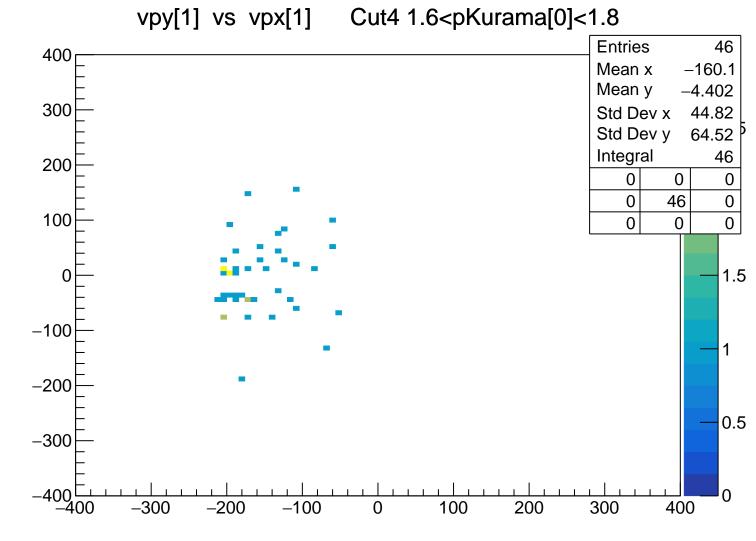
TofSeg[0] vs vpseg[1] Cut4 1.4<pKurama[0]<1.6



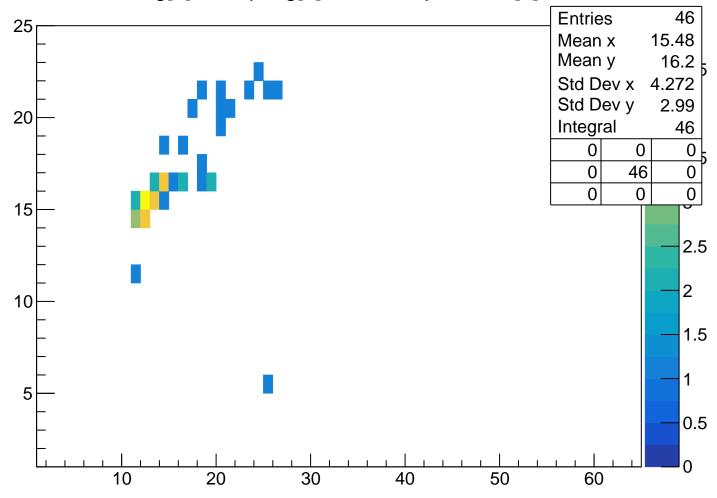
tofsegKurama[0] vs vpseg[1] Cut4 1.4<pKurama[0]<1.6



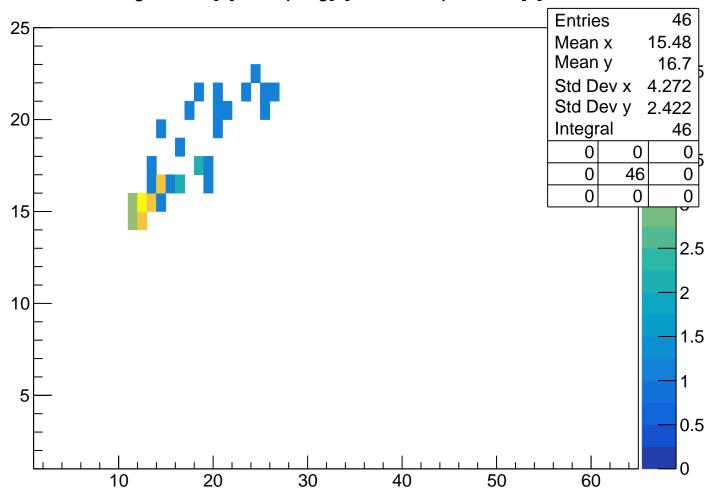
pKurama vs m2 Cut4 1.6<pKurama[0]<1.8 **Entries** 46 2 0.1135 Mean x Mean y 1.671 1.8 0.249 Std Dev x Std Dev y 0.05242 1.6 Integral 43 0 0 1.4 3 43 0 0 1.2 0.5 8.0 0.4 0.6 0.3 0.4 0.2 0.1 0.2 0 -0.4 -0.2 0.2 0.4 0.6 8.0 1.2 1.4 0



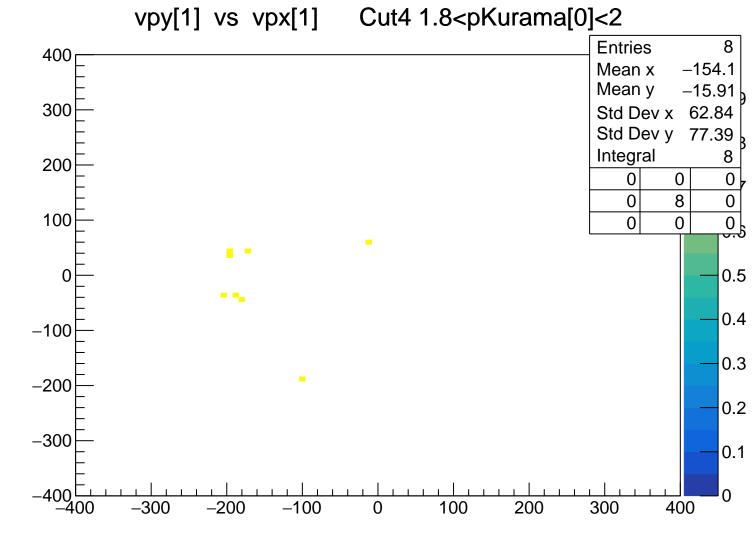
TofSeg[0] vs vpseg[1] Cut4 1.6<pKurama[0]<1.8



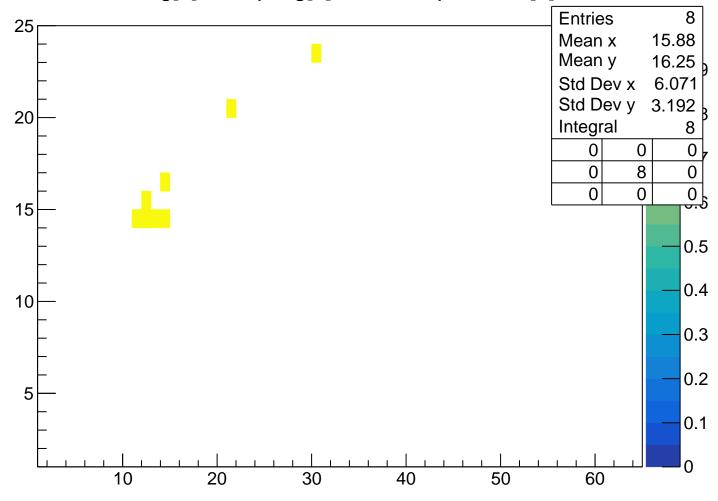
tofsegKurama[0] vs vpseg[1] Cut4 1.6<pKurama[0]<1.8



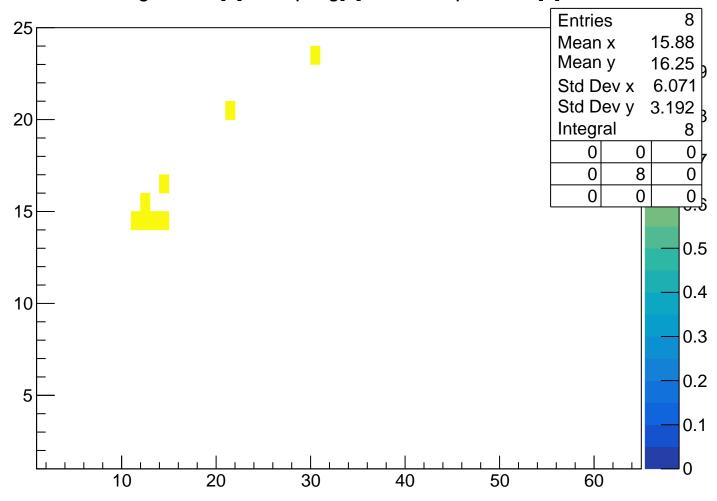
pKurama vs m2 Cut4 1.8<pKurama[0]<2 **Entries** 8 2 0.1661 Mean x Mean y 1.954 1.8 Std Dev x 0.211 Std Dev y 0.02948 1.6 Integral 0 0 1.4 0 0 1.2 0.5 0.4 8.0 0.6 0.3 0.4 0.2 0.2 0.1 0 -0.4 -0.2 0.2 0.4 0.6 8.0 1.2 1.4 0



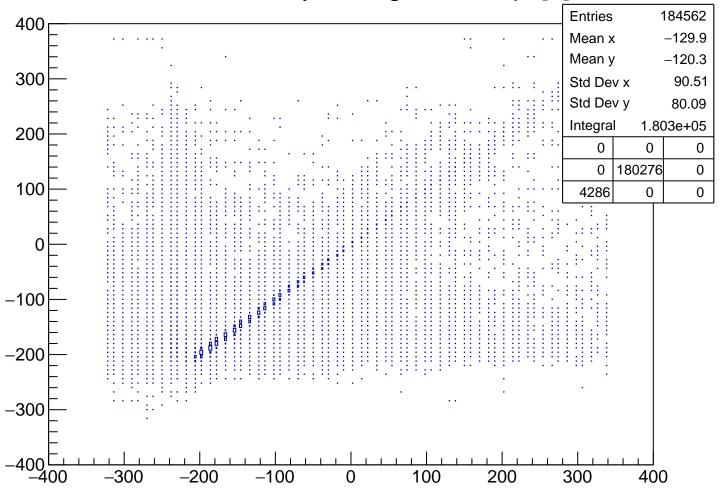
TofSeg[0] vs vpseg[1] Cut4 1.8<pKurama[0]<2



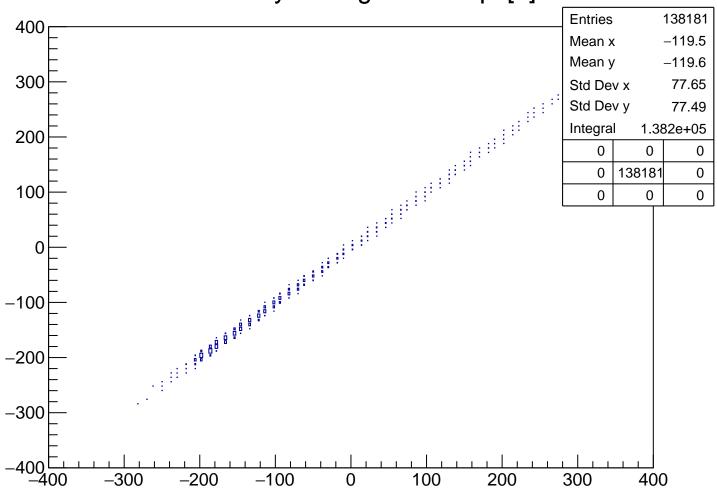
tofsegKurama[0] vs vpseg[1] Cut4 1.8<pKurama[0]<2



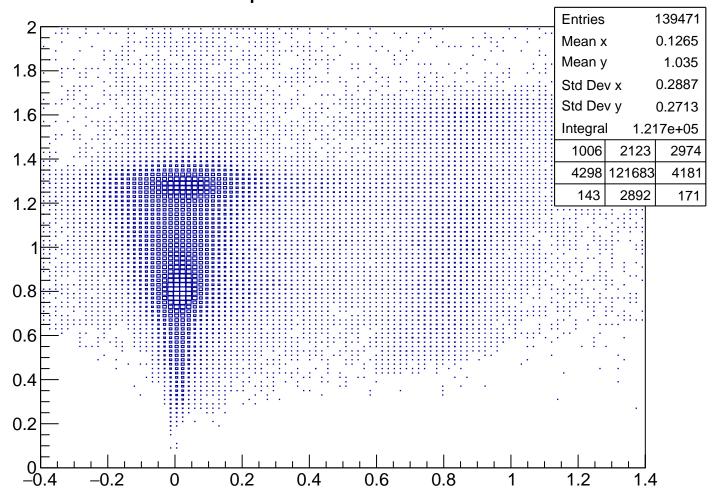
Sch Position by HitSegment % vpx[1]



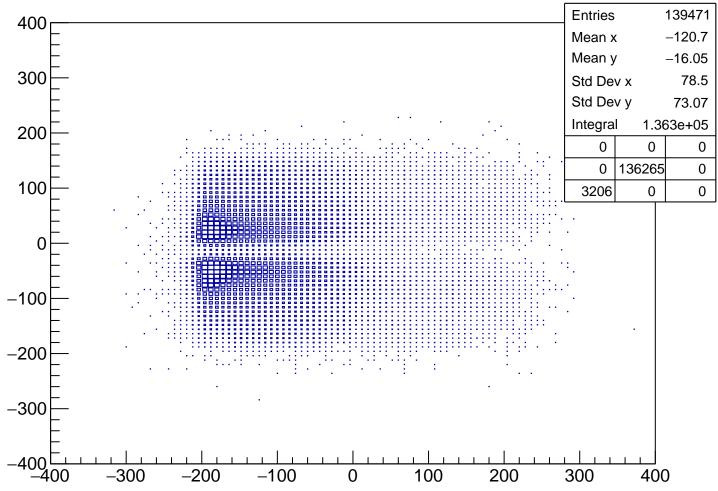
Sch Position by HitSegment % vpx[1] Cut1



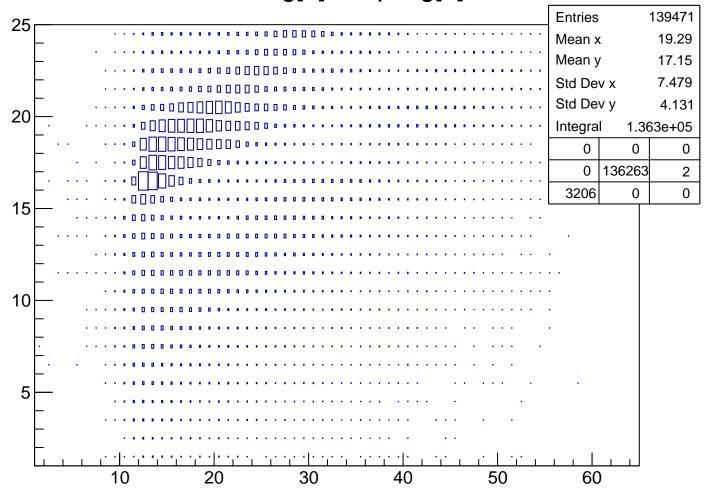
pKurama % m2



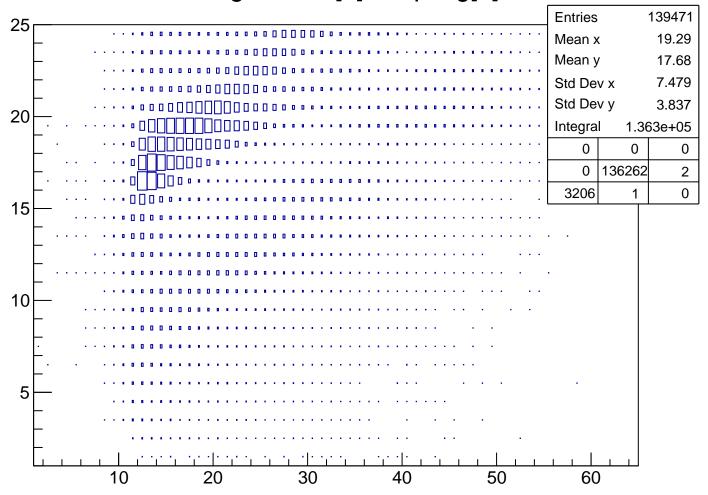
## vpy[1] % vpx[1]



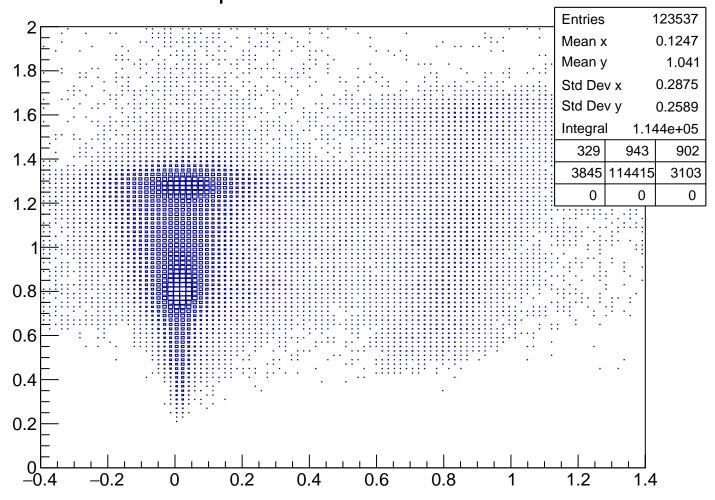
TofSeg[0] % vpseg[1]

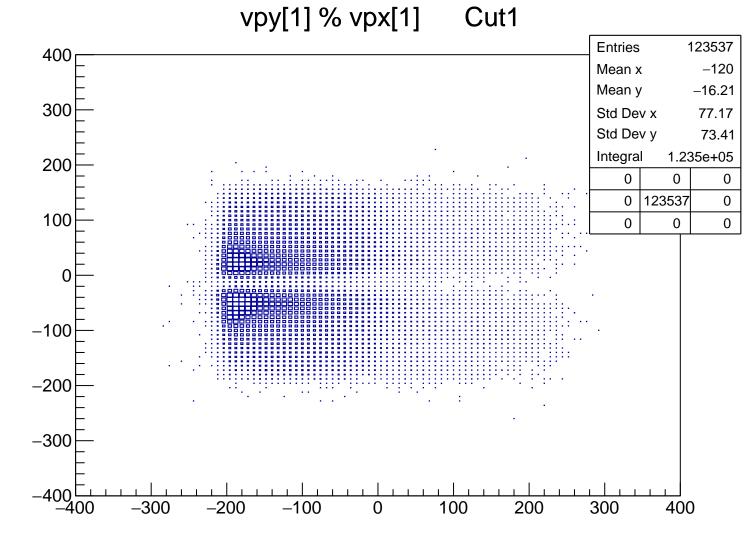


tofsegKurama[0] % vpseg[1]

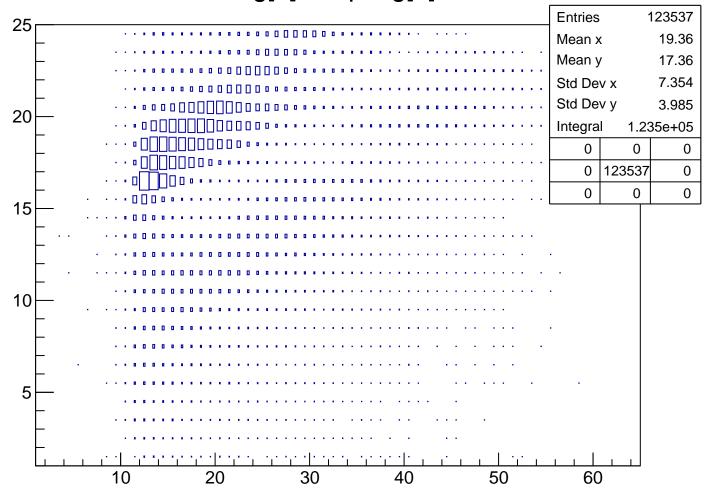


pKurama % m2 Cut1

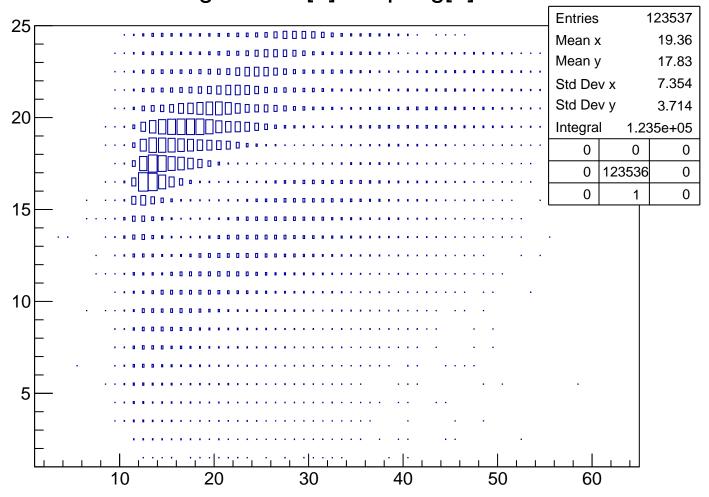




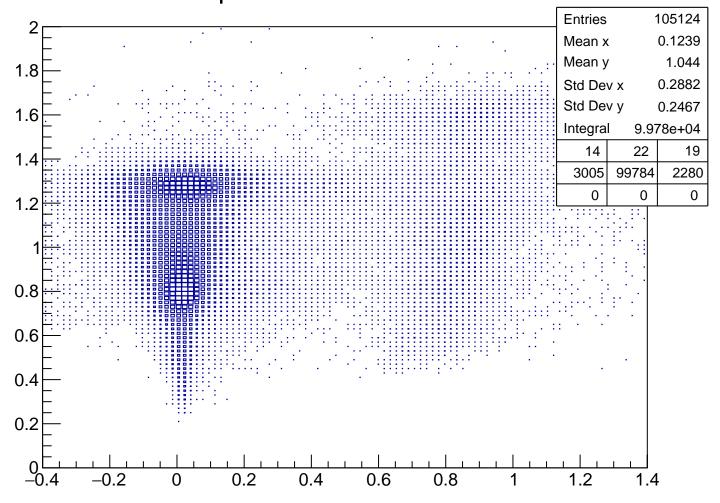
TofSeg[0] % vpseg[1] Cut1

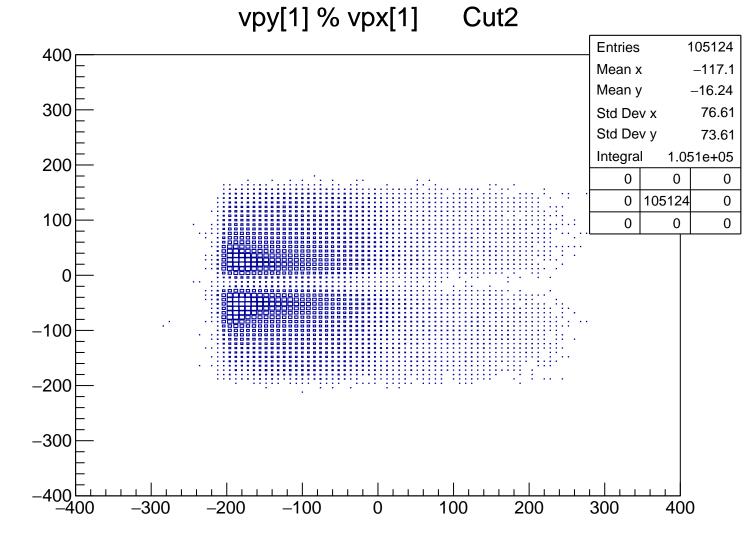


tofsegKurama[0] % vpseg[1] Cut1

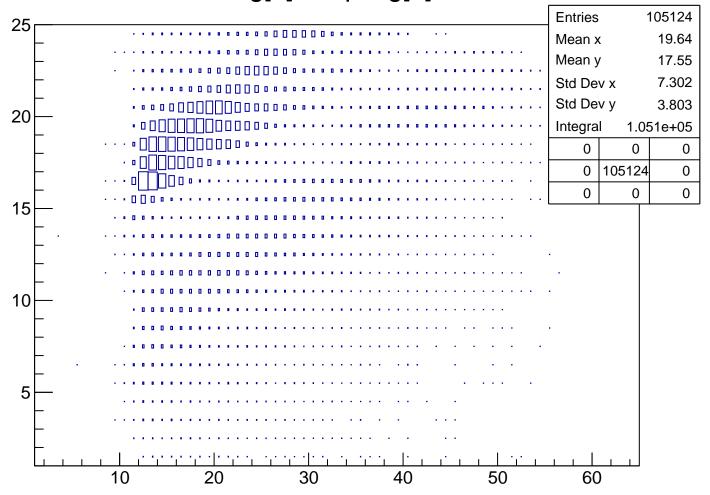


pKurama % m2 Cut2

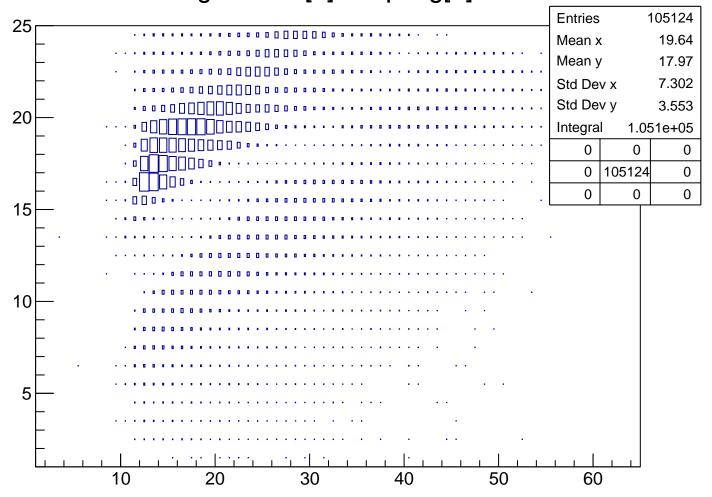




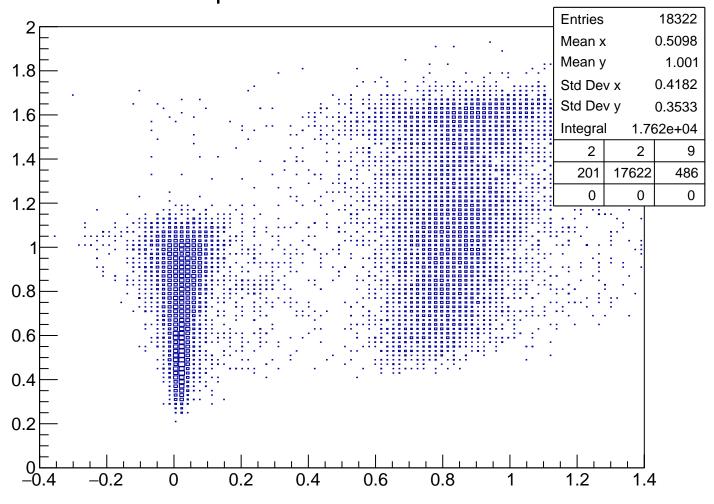
TofSeg[0] % vpseg[1] Cut2

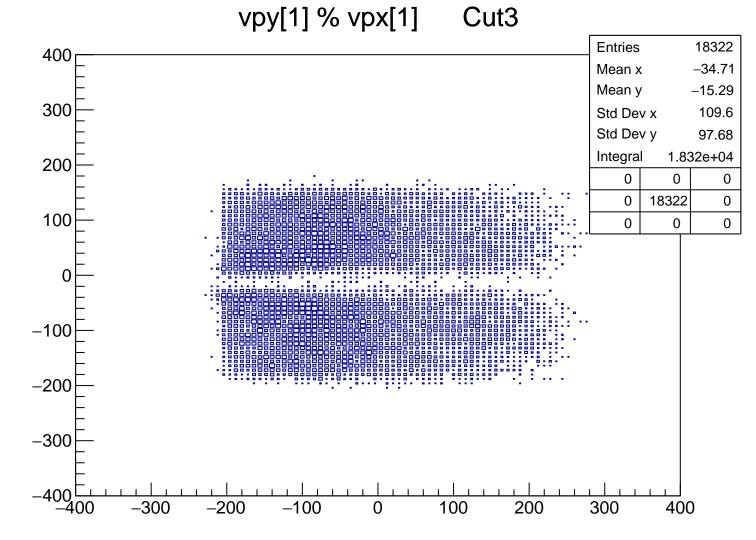


tofsegKurama[0] % vpseg[1] Cut2

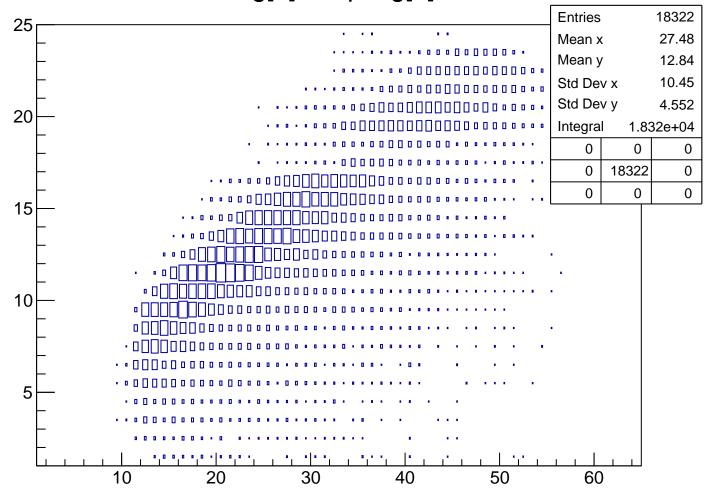


pKurama % m2 Cut3

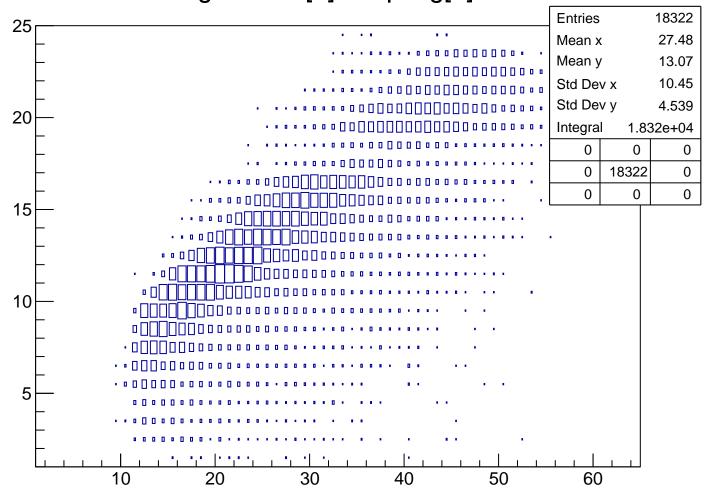




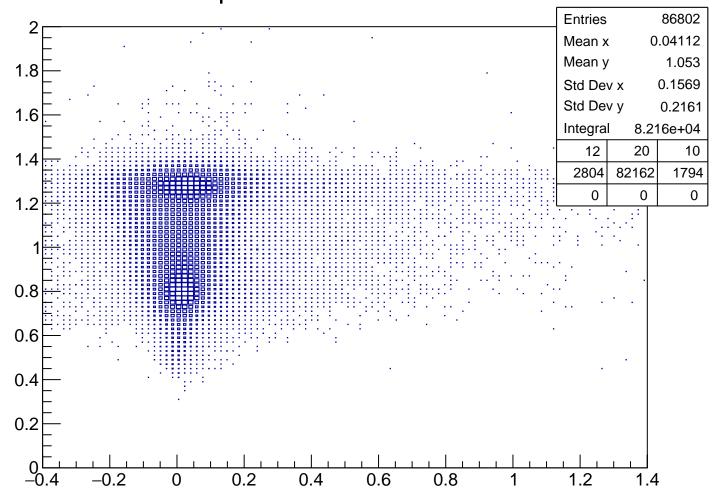
TofSeg[0] % vpseg[1] Cut3

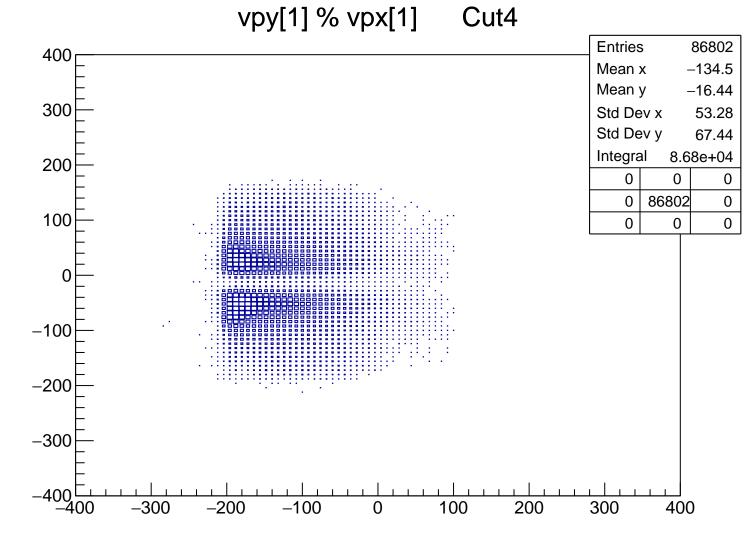


tofsegKurama[0] % vpseg[1] Cut3

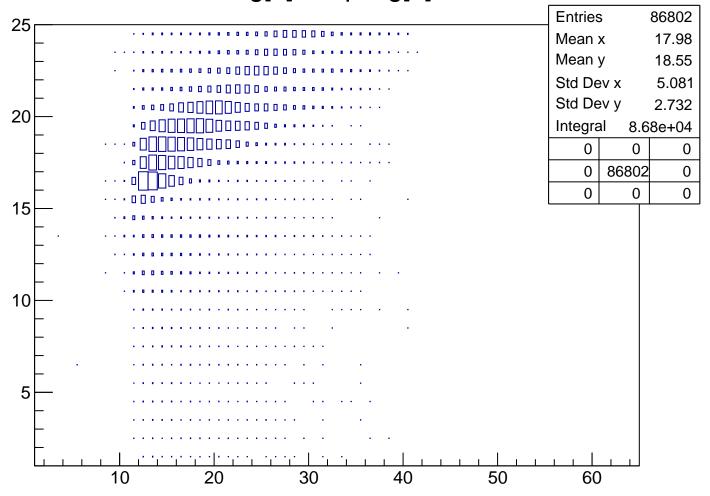


pKurama % m2 Cut4

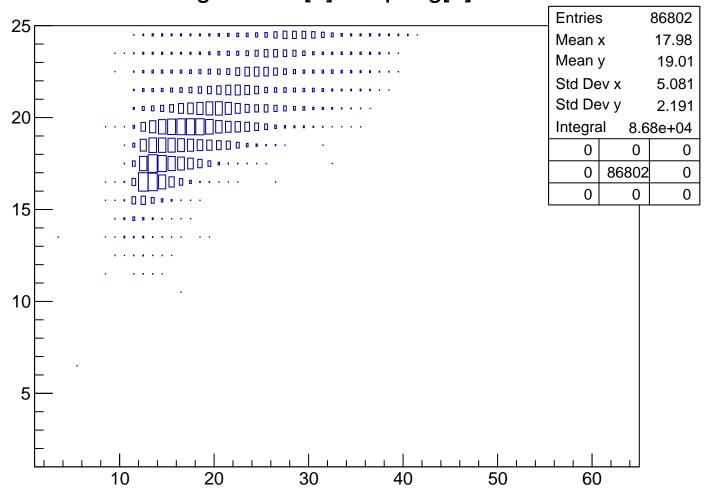


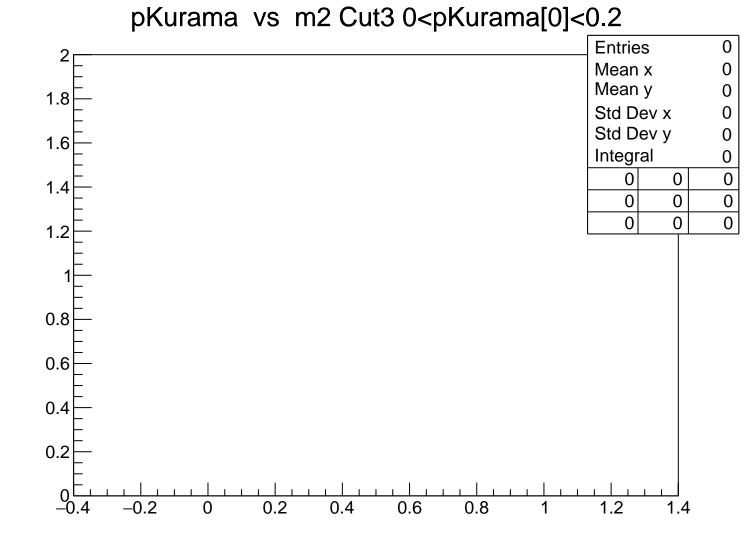


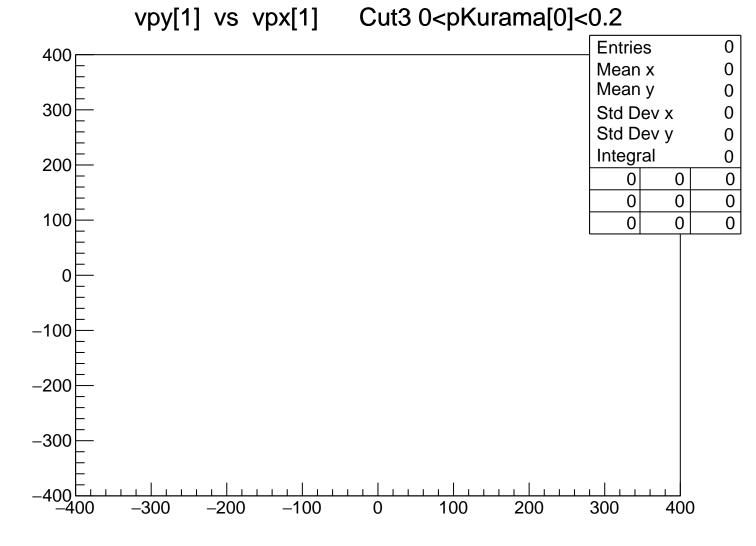
TofSeg[0] % vpseg[1] Cut4



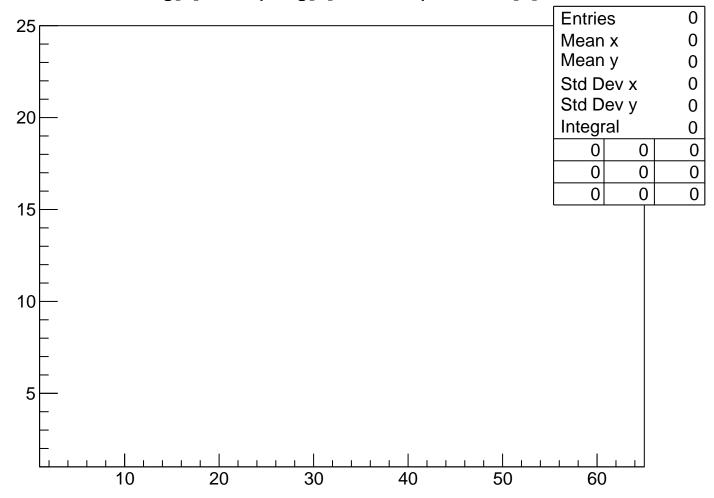
tofsegKurama[0] % vpseg[1] Cut4



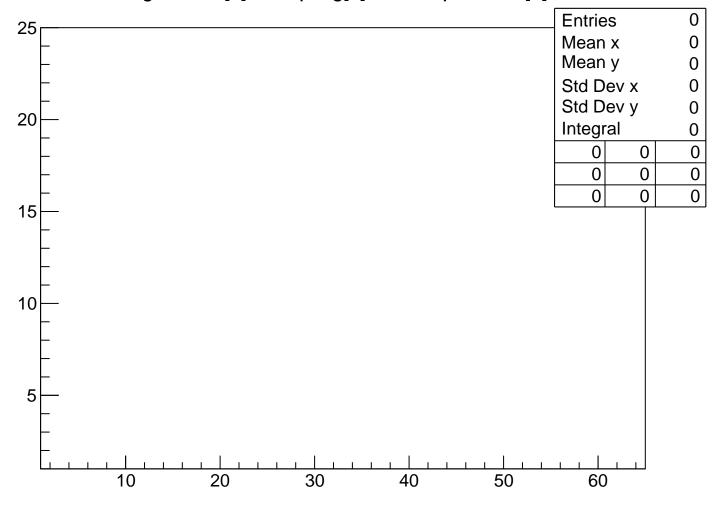




TofSeg[0] vs vpseg[1] Cut3 0<pKurama[0]<0.2



## tofsegKurama[0] vs vpseg[1] Cut3 0<pKurama[0]<0.2



pKurama vs m2 Cut3 0.2<pKurama[0]<0.4 **Entries** 407 0.02088 Mean x Mean y 0.3477 Std Dev x 0.01932 Std Dev y 0.03713 Integral 404 0 0 404 0 0 0 0 -0.4

0.6

8.0

1.2

1.4

2

1.8

1.6

1.4

1.2

8.0

0.6

0.4

0.2

-0.2

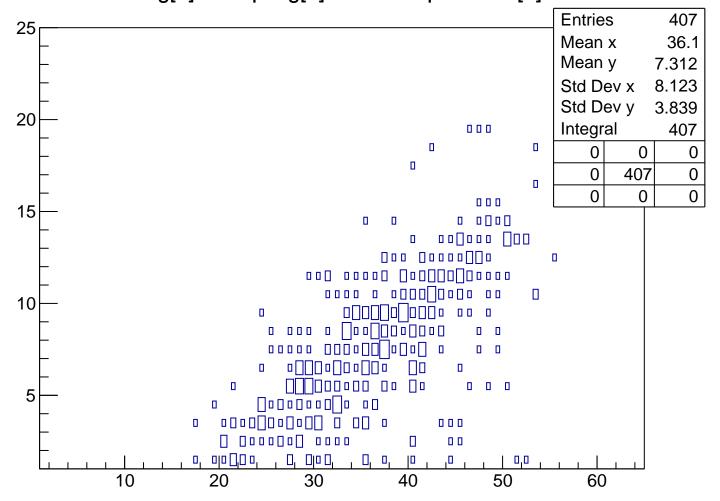
0

0.2

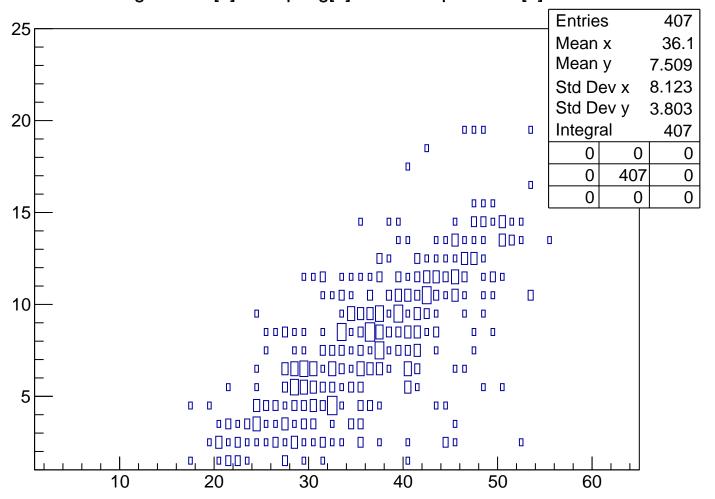
0.4

Cut3 0.2<pKurama[0]<0.4 vpy[1] vs vpx[1] **Entries** 407 400 Mean x 55.69 Mean y -16.6300 Std Dev x 85.18 Std Dev y 99.8 Integral 407 200 407 100 0 -100-200-300-400 -400 -300-200-100100 200 300 400

TofSeg[0] vs vpseg[1] Cut3 0.2<pKurama[0]<0.4



tofsegKurama[0] vs vpseg[1] Cut3 0.2<pKurama[0]<0.4



pKurama vs m2 Cut3 0.4<pKurama[0]<0.6 **Entries** 1969 0.1893 Mean x Mean y 0.5136 Std Dev x 0.3081 Std Dev y 0.05602 Integral 1940 0 0 1940 21 0 0 0

2

1.8

1.6

1.4

1.2

8.0

0.6

0.4

0.2

0 -0.4

-0.2

0

0.2

0.4

0.6

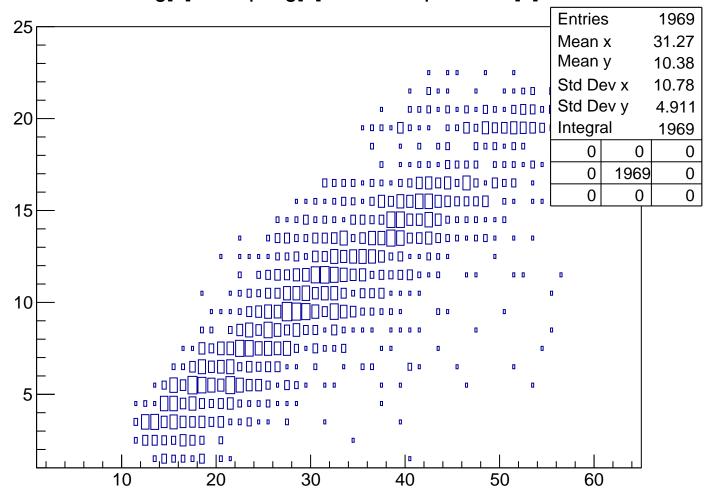
8.0

1.2

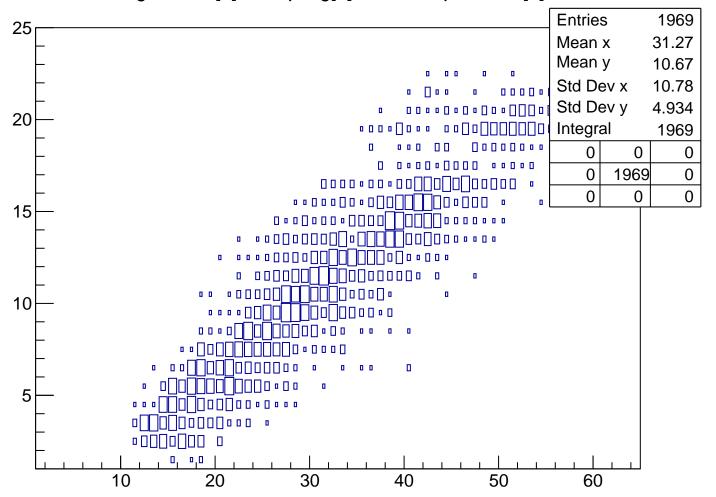
1.4

Cut3 0.4<pKurama[0]<0.6 vpy[1] vs vpx[1] **Entries** 1969 400 4.902 Mean x Mean y -17.31300 Std Dev x 113.2 Std Dev y 97.76 Integral 1969 200 1969 100 0 -100-200-300-400 -400 -300-200-100100 200 300 400

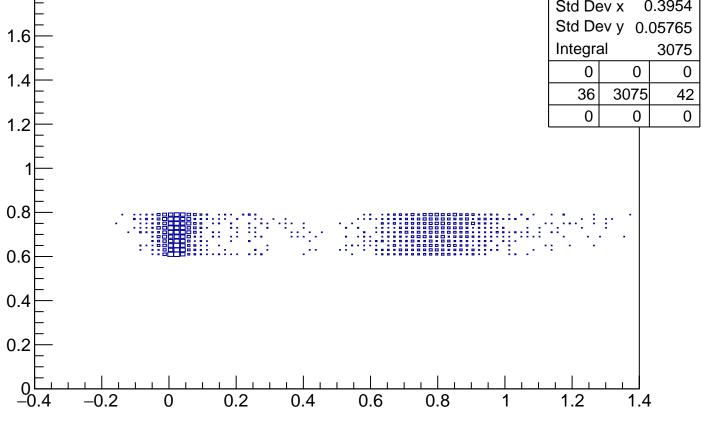
TofSeg[0] vs vpseg[1] Cut3 0.4<pKurama[0]<0.6



#### tofsegKurama[0] vs vpseg[1] Cut3 0.4<pKurama[0]<0.6



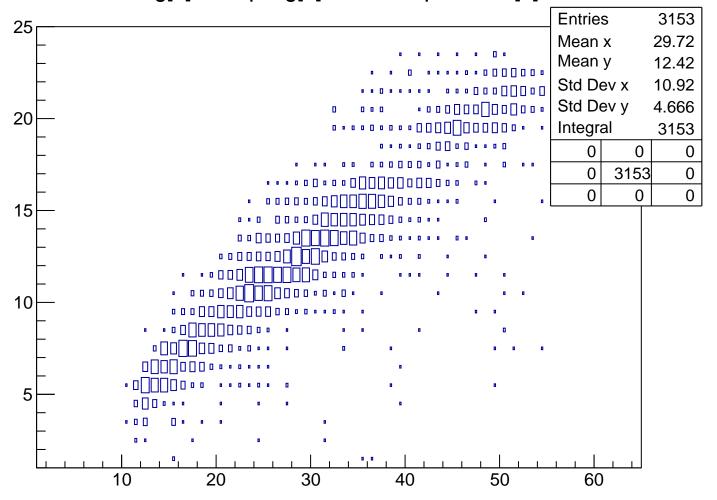
pKurama vs m2 Cut3 0.6<pKurama[0]<0.8 **Entries** 3153 0.3678 Mean x Mean y 0.706 Std Dev x 0.3954 Std Dev y 0.05765 Integral 3075 0 0 36 3075 42 0 0



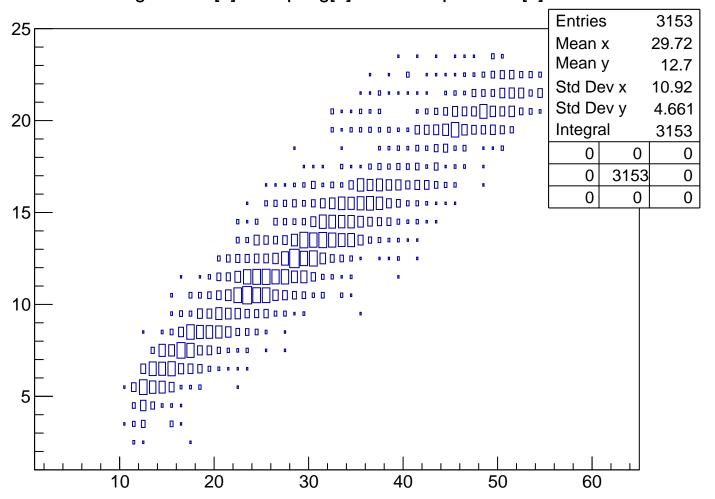
1.8

Cut3 0.6<pKurama[0]<0.8 vpy[1] vs vpx[1] **Entries** 3153 400 -11.12 Mean x Mean y -14.43300 Std Dev x 114.7 Std Dev y 98.61 Integral 3153 200 3153 100 0 -100-200-300-400 -400 -300-200-100100 200 300 400

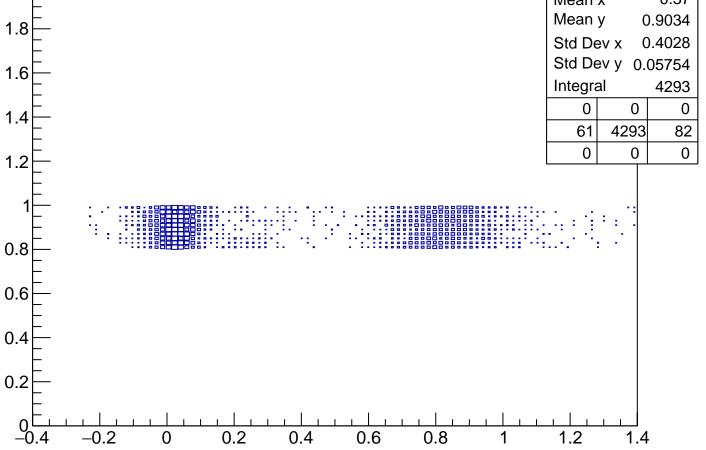
TofSeg[0] vs vpseg[1] Cut3 0.6<pKurama[0]<0.8



### tofsegKurama[0] vs vpseg[1] Cut3 0.6<pKurama[0]<0.8

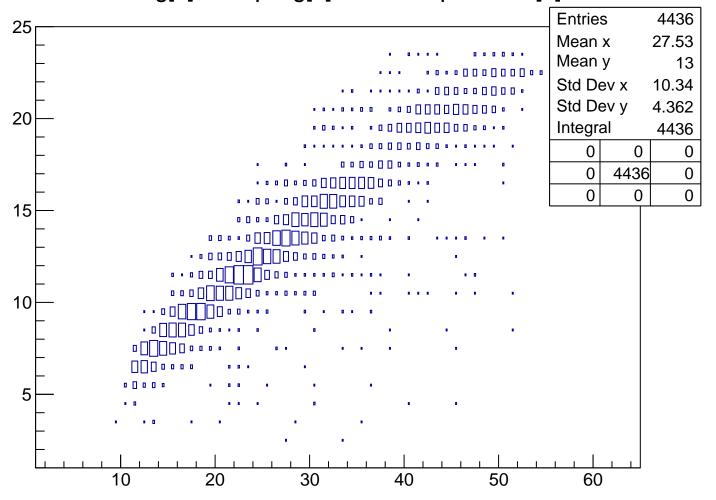


pKurama vs m2 Cut3 0.8<pKurama[0]<1 **Entries** 4436 0.37 Mean x Mean y 0.9034 Std Dev x 0.4028 Std Dev y 0.05754 Integral 4293 0 0 61 4293 82 0 0 0

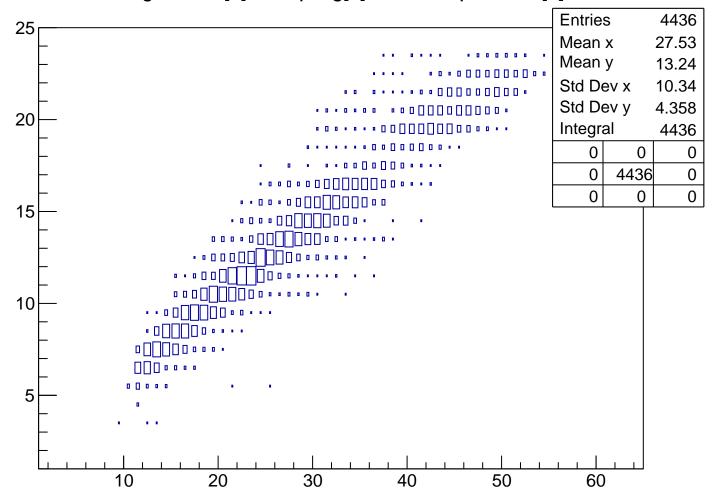


Cut3 0.8<pKurama[0]<1 vpy[1] vs vpx[1] **Entries** 4436 400 Mean x -34.19Mean y -13.84300 Std Dev x 108.4 Std Dev y 97.62 Integral 4436 200 4436 100 0 -100-200-300-400 -400 -300-200-100200 100 300 400

TofSeg[0] vs vpseg[1] Cut3 0.8<pKurama[0]<1



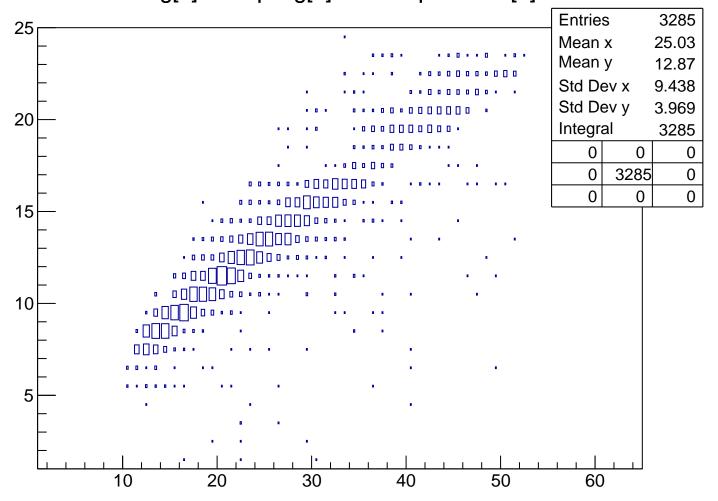
tofsegKurama[0] vs vpseg[1] Cut3 0.8<pKurama[0]<1



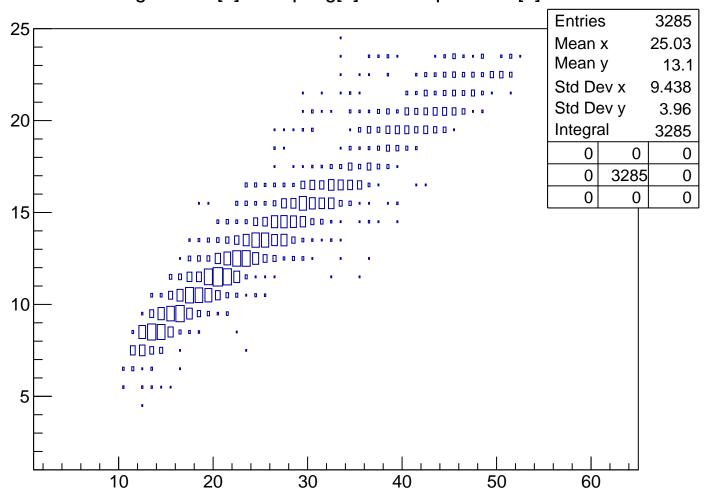
pKurama vs m2 Cut3 1<pKurama[0]<1.2 **Entries** 3285 0.5659 Mean x Mean y 1.084 1.8 Std Dev x 0.4042 Std Dev y 0.05647 1.6 Integral 3150 0 0 1.4 46 3150 89 1.2 8.0 0.6 0.4 0.2 0 -0.4 -0.20.2 0.4 0.6 8.0 1.2 1.4

vpy[1] vs vpx[1] Cut3 1<pKurama[0]<1.2 **Entries** 3285 400 Mean x -60.45Mean y -14.97300 Std Dev x 99.01 Std Dev y 95.57 Integral 3285 200 0 3285 100 0 -100-200-300-400 -400 -300-200-100100 200 300 400

TofSeg[0] vs vpseg[1] Cut3 1<pKurama[0]<1.2



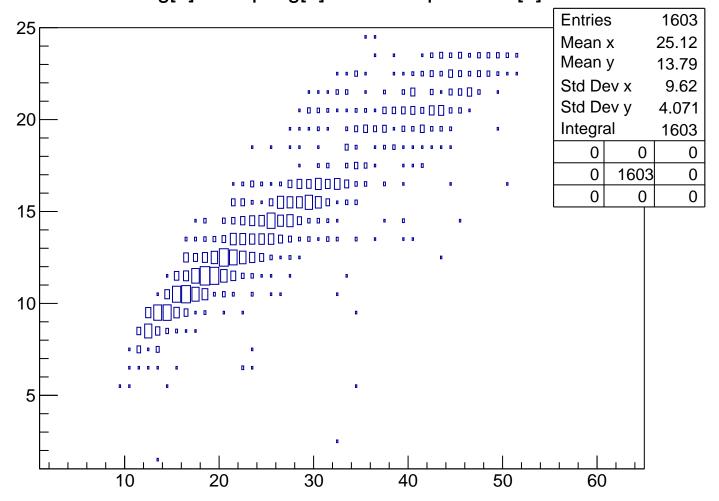
tofsegKurama[0] vs vpseg[1] Cut3 1<pKurama[0]<1.2



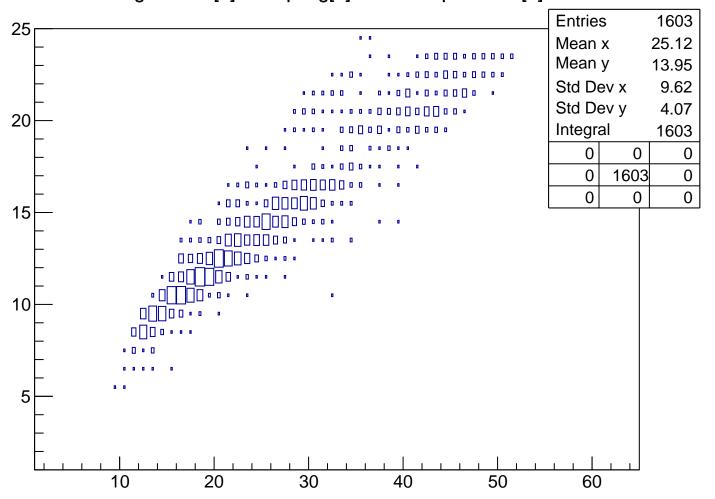
pKurama vs m2 Cut3 1.2<pKurama[0]<1.4 **Entries** 1603 0.8385 Mean x Mean y 1.295 1.8 0.1691 Std Dev x Std Dev y 0.05874 1.6 Integral 1507 0 0 1.4 14 1507 82 0 0 0 1.2 8.0 0.6 0.4 0.2 0 -0.4 -0.2 0.2 0.4 0.6 8.0 1.2 1.4

Cut3 1.2<pKurama[0]<1.4 vpy[1] vs vpx[1] **Entries** 1603 400 -59.34Mean x Mean y -14.69300 Std Dev x 100.8 Std Dev y 98.23 Integral 1603 200 1603 100 0 -100-200-300-400 -400 -300-200-100100 200 300 400

TofSeg[0] vs vpseg[1] Cut3 1.2<pKurama[0]<1.4



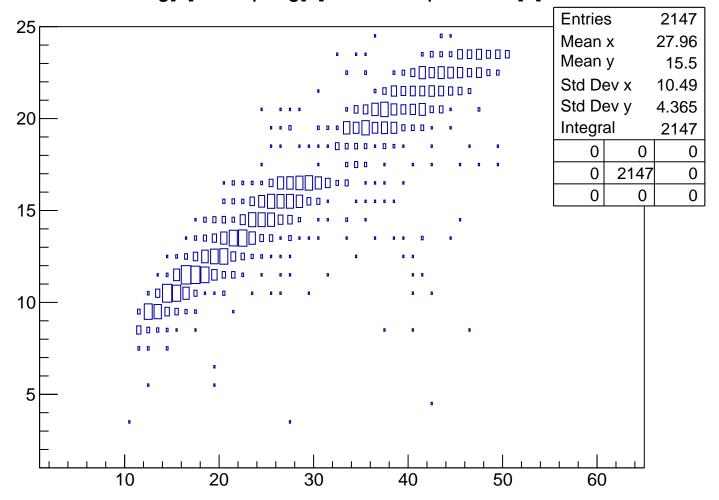
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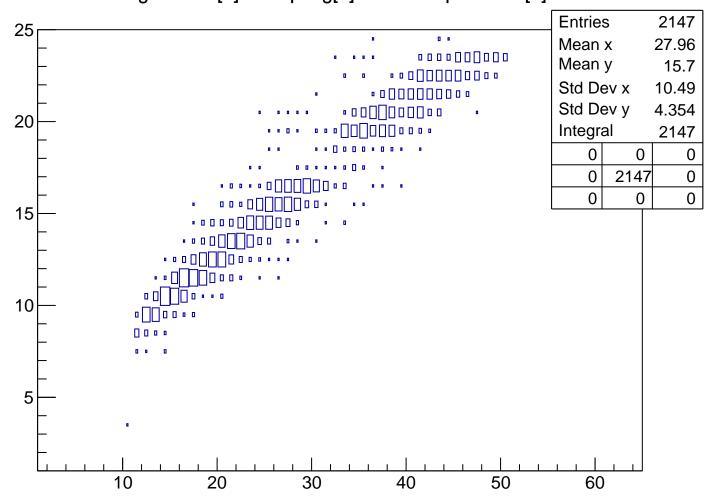
pKurama vs m2 Cut3 1.4<pKurama[0]<1.6 **Entries** 2147 0.8554 Mean x Mean y 1.514 1.8 Std Dev x 0.184 Std Dev y 0.05777 1.6 Integral 2018 0 0 1.4 24 2018 105 0 0 0 1.2 8.0 0.6 0.4 0.2 0 -0.4 -0.2 0.2 0.4 0.6 8.0 1.2 1.4

Cut3 1.4<pKurama[0]<1.6 vpy[1] vs vpx[1] **Entries** 2147 400 -29.66Mean x Mean y -22.49300 Std Dev x 110.1 Std Dev y 98.64 Integral 2147 200 0 2147 100 0 -100-200-300-400 -400 -300-200-100100 200 300 400

TofSeg[0] vs vpseg[1] Cut3 1.4<pKurama[0]<1.6



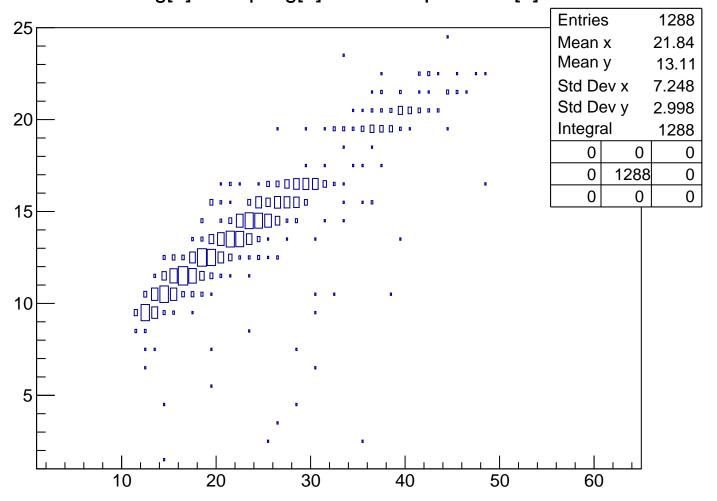
tofsegKurama[0] vs vpseg[1] Cut3 1.4<pKurama[0]<1.6



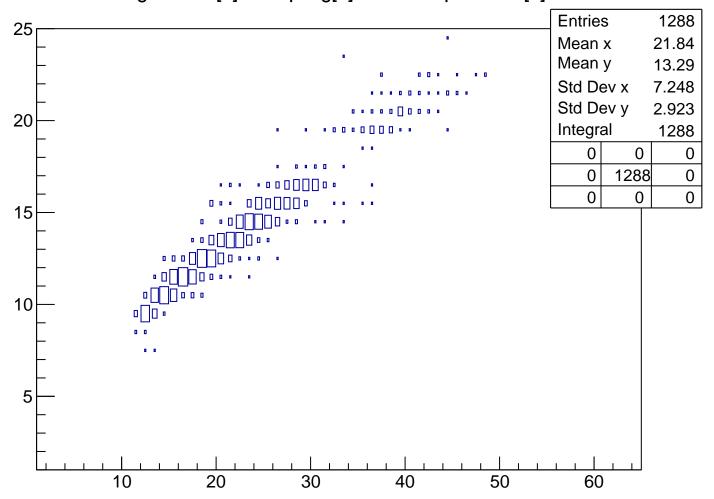
pKurama vs m2 Cut3 1.6<pKurama[0]<1.8 **Entries** 1288 2 Mean x 0.9027 Mean y 1.647 1.8 Std Dev x 0.1955 Std Dev y 0.03711 1.6 Integral 1217 0 0 1.4 1217 60 0 0 0 1.2 8.0 0.6 0.4 0.2 0 -0.4 -0.2 0.2 0.4 0.6 8.0 1.2 1.4

Cut3 1.6<pKurama[0]<1.8 vpy[1] vs vpx[1] **Entries** 1288 400 Mean x -94.03Mean y -8.536300 Std Dev x 76.09 Std Dev y 97.38 Integral 1288 200 0 1288 100 0 0 -100-200-300-400 -400 -300-200-100100 200 300 400

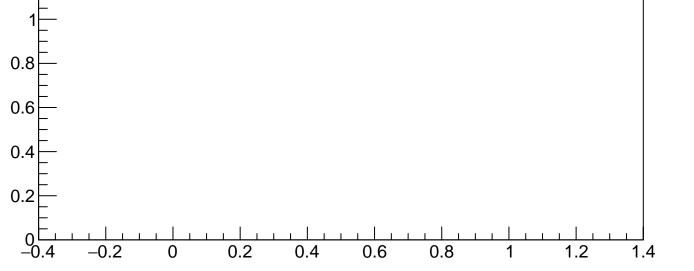
TofSeg[0] vs vpseg[1] Cut3 1.6<pKurama[0]<1.8



tofsegKurama[0] vs vpseg[1] Cut3 1.6<pKurama[0]<1.8



pKurama vs m2 Cut3 1.8<pKurama[0]<2 **Entries** 21 0.9506 Mean x --1.85 \_ \_ Std Dev x 0.2435 Std Dev y 0.04008 Integral 18 0 0 0 0 18 3 0 0 0



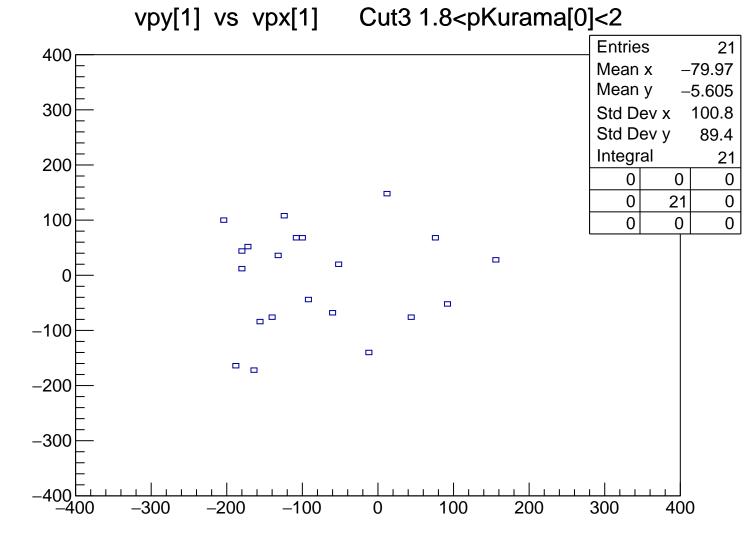
2

1.8

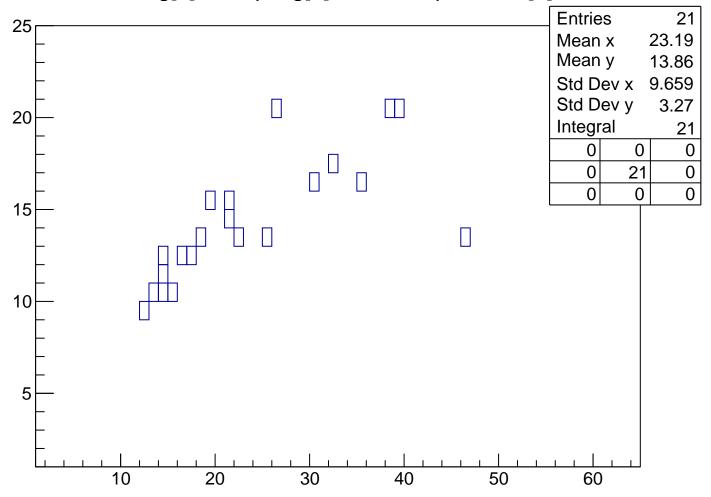
1.6

1.4

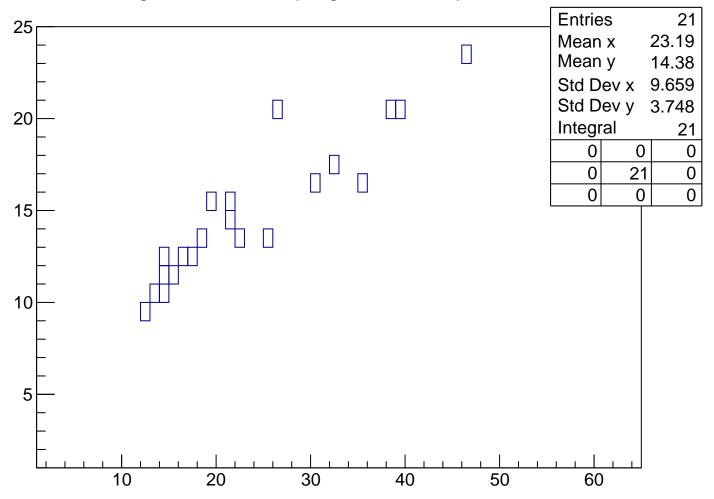
1.2

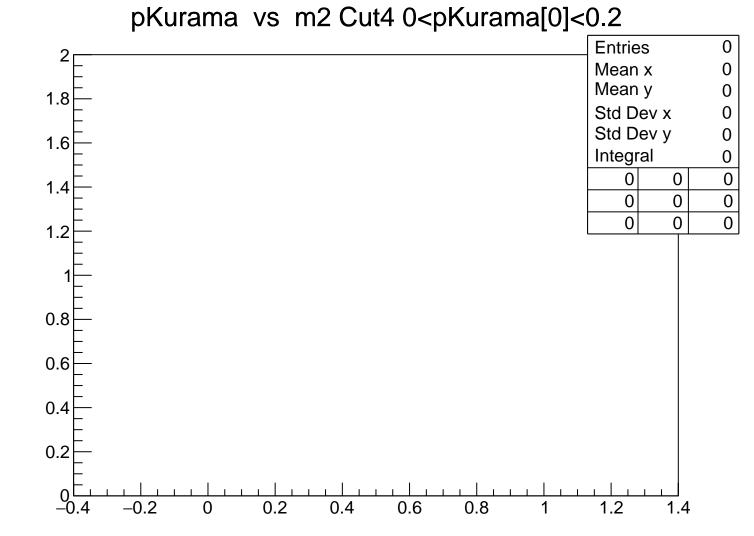


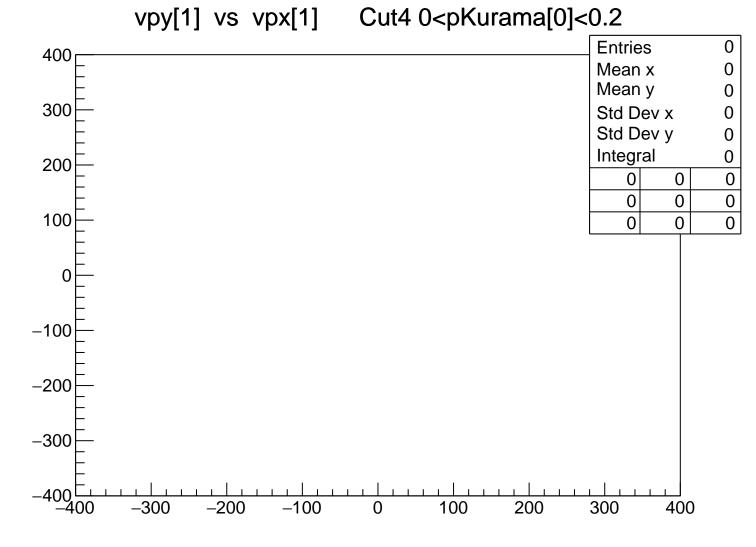
# TofSeg[0] vs vpseg[1] Cut3 1.8<pKurama[0]<2



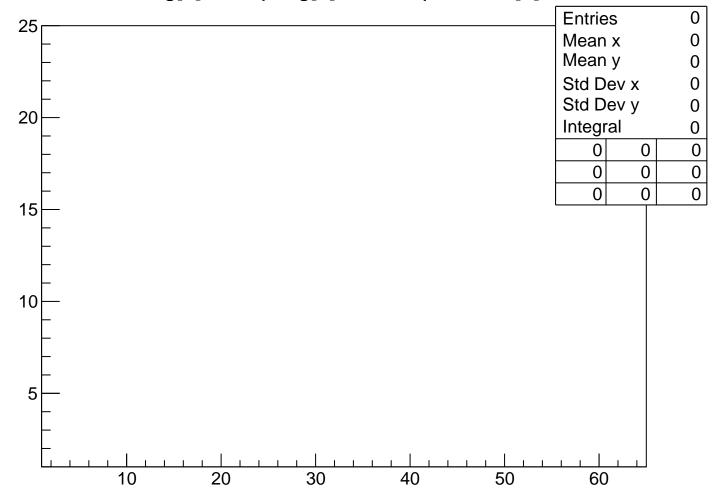
tofsegKurama[0] vs vpseg[1] Cut3 1.8<pKurama[0]<2



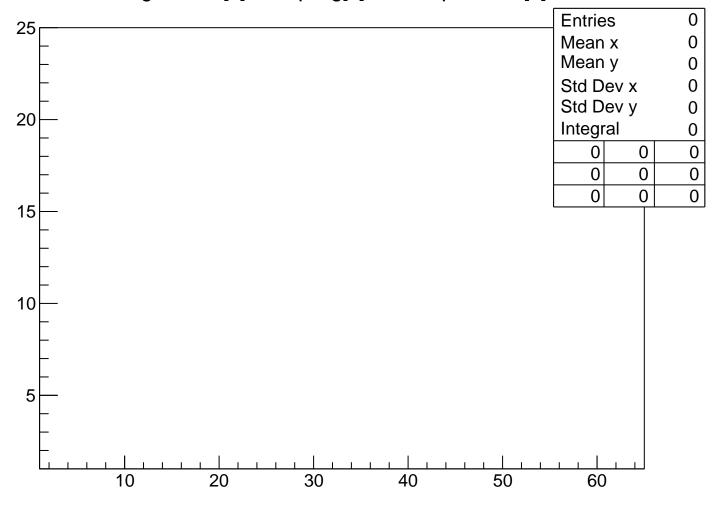




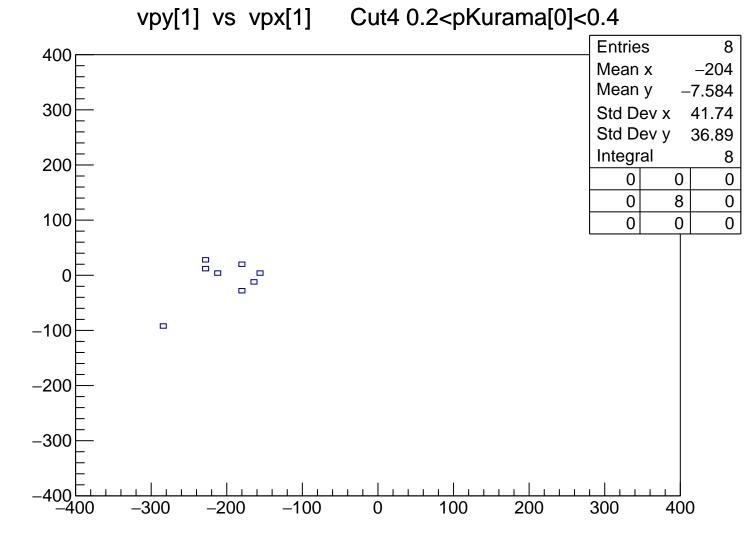
TofSeg[0] vs vpseg[1] Cut4 0<pKurama[0]<0.2



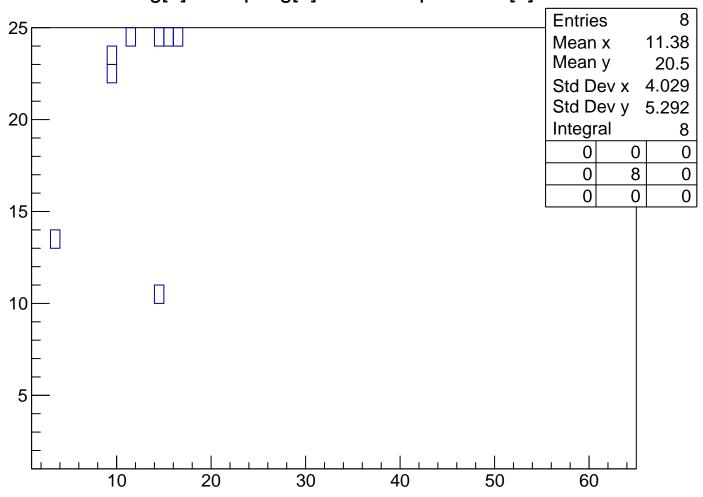
## tofsegKurama[0] vs vpseg[1] Cut4 0<pKurama[0]<0.2



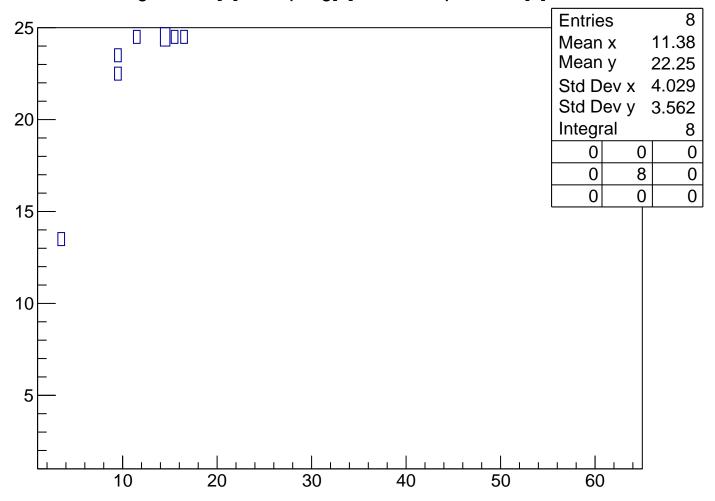
pKurama vs m2 Cut4 0.2<pKurama[0]<0.4 **Entries** 8 2 0.03148 Mean x Mean y 0.3678 1.8 Std Dev x 0.02007 Std Dev y 0.02897 1.6 Integral 0 0 0 1.4 0 0 0 0 1.2 8.0 0.6 0.4 **8**°° 0.2 0 -0.4 -0.20.2 0.4 0.6 8.0 1.2 1.4 0



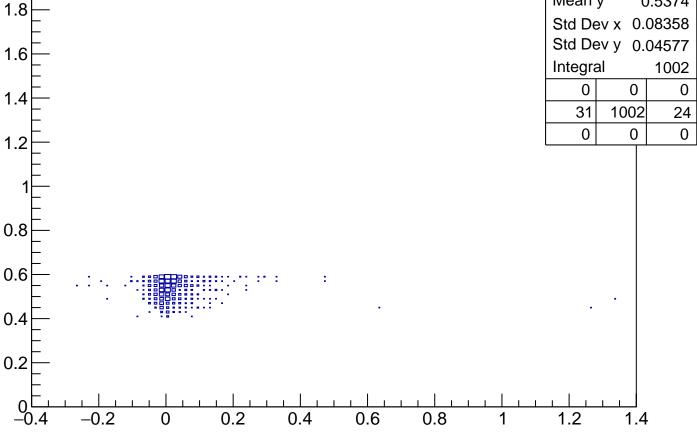
TofSeg[0] vs vpseg[1] Cut4 0.2<pKurama[0]<0.4



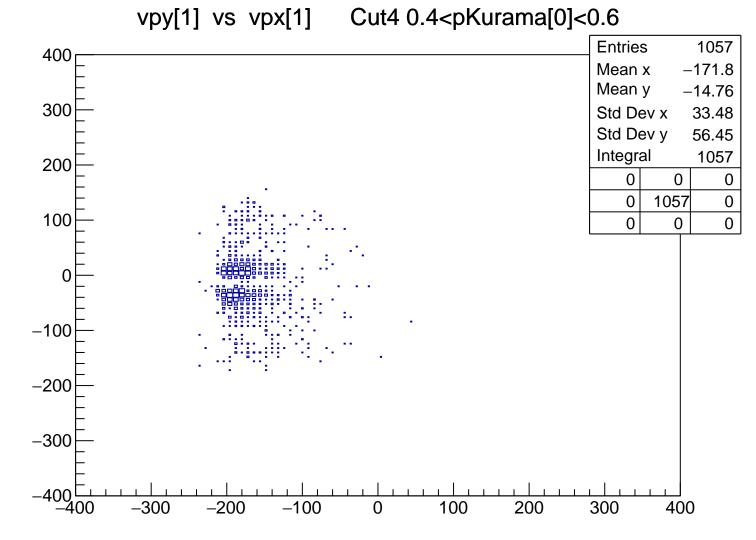
# tofsegKurama[0] vs vpseg[1] Cut4 0.2<pKurama[0]<0.4



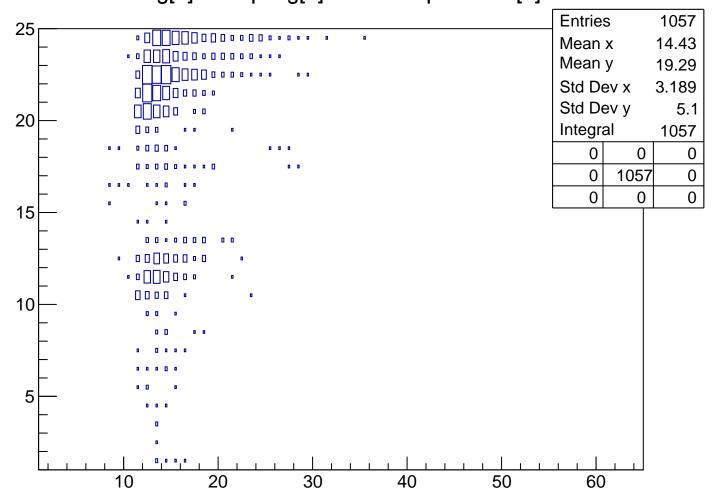
pKurama vs m2 Cut4 0.4<pKurama[0]<0.6 **Entries** 1057 0.0178 Mean x Mean y 0.5374 Std Dev x 0.08358 Std Dev y 0.04577 Integral 1002 0 0 31 1002 24 0 0 0



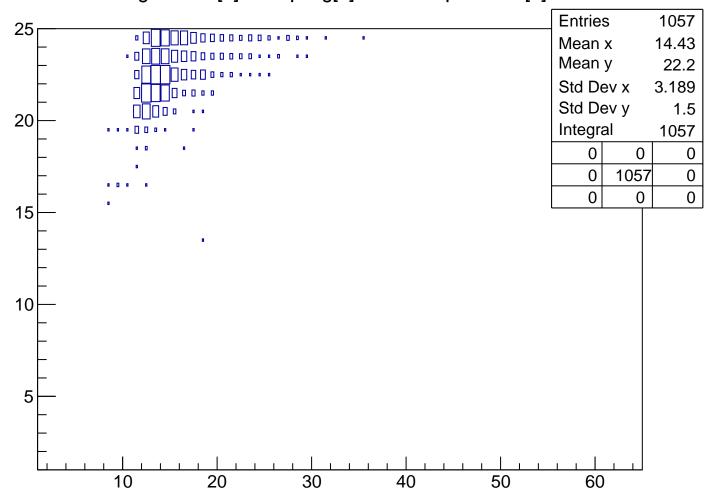
2



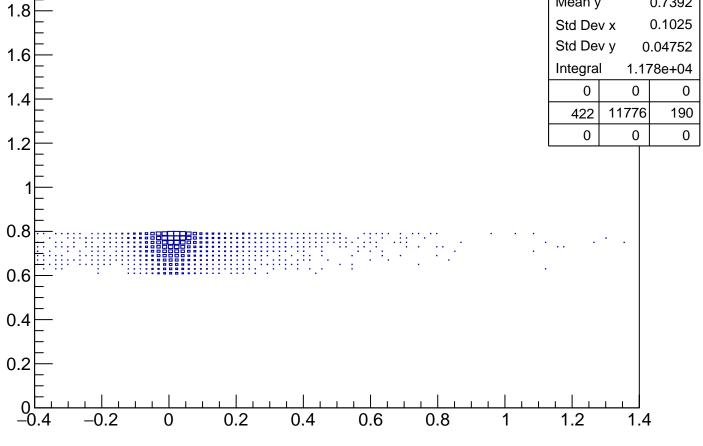
TofSeg[0] vs vpseg[1] Cut4 0.4<pKurama[0]<0.6

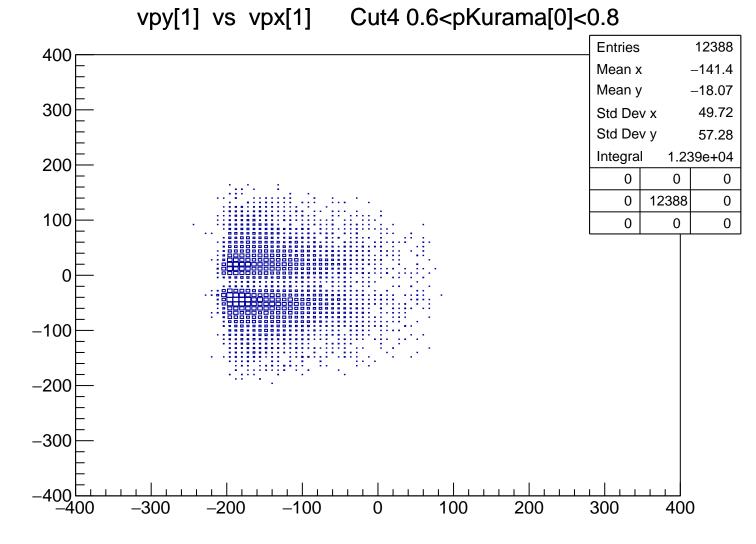


### tofsegKurama[0] vs vpseg[1] Cut4 0.4<pKurama[0]<0.6

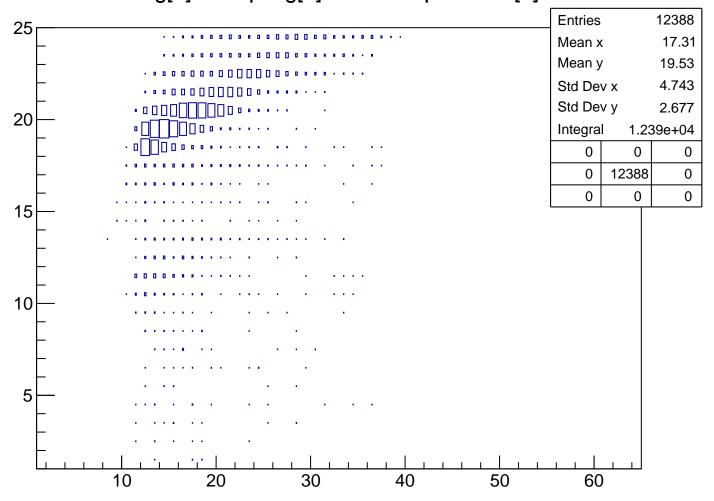


pKurama vs m2 Cut4 0.6<pKurama[0]<0.8 **Entries** 12388 0.02697 Mean x Mean y 0.7392 0.1025 Std Dev x Std Dev y 0.04752 Integral 1.178e+04 0 0 0 422 11776 190 0 0 0

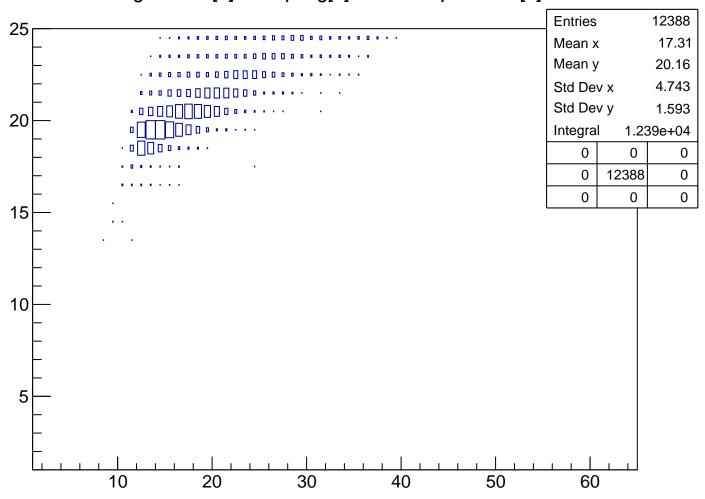




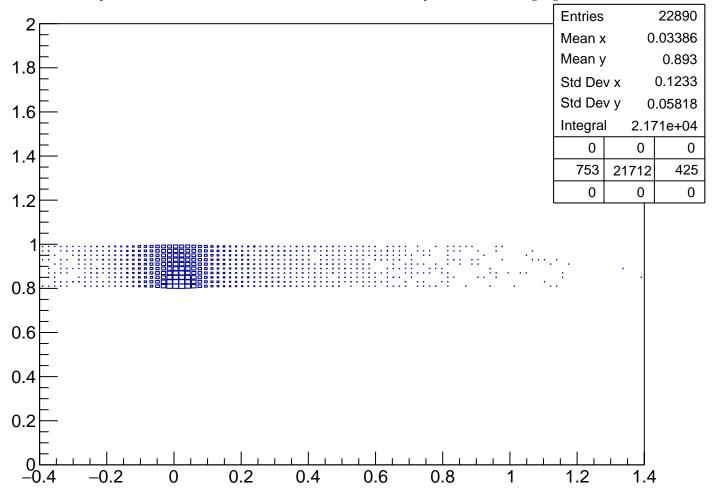
TofSeg[0] vs vpseg[1] Cut4 0.6<pKurama[0]<0.8

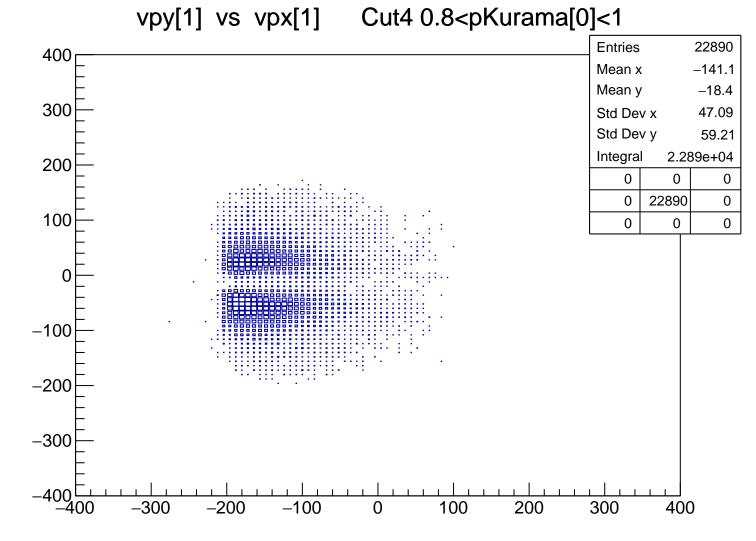


tofsegKurama[0] vs vpseg[1] Cut4 0.6<pKurama[0]<0.8

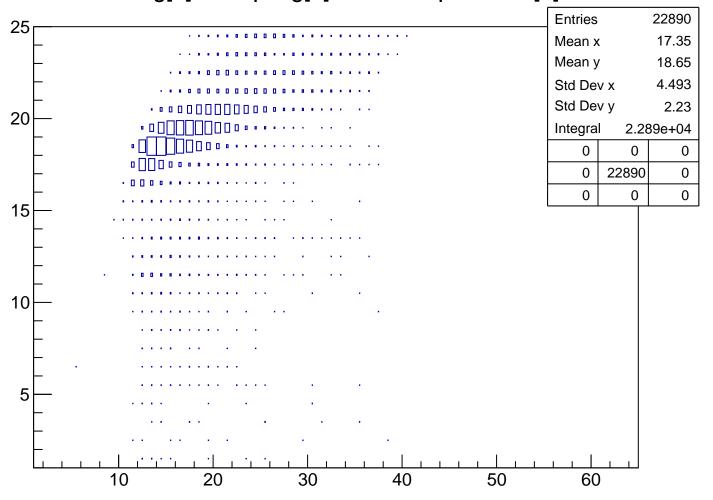


pKurama vs m2 Cut4 0.8<pKurama[0]<1

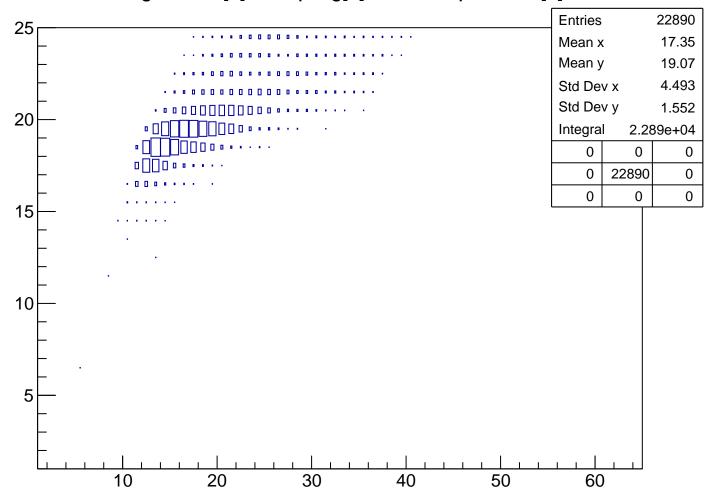




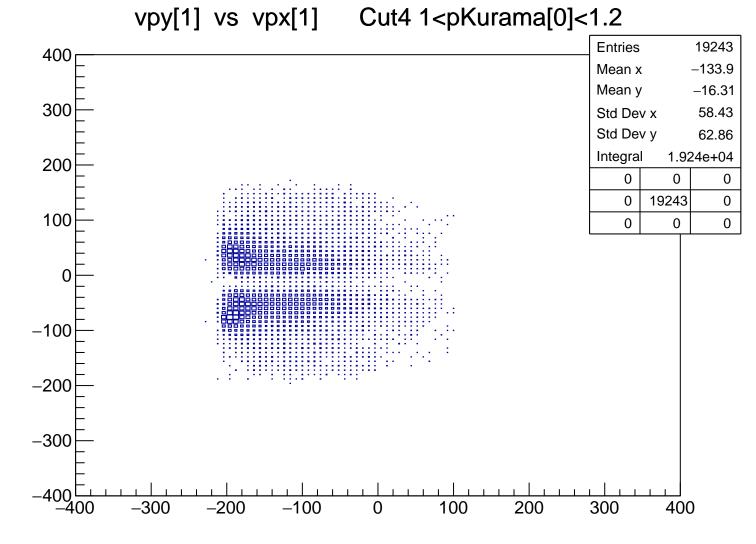
TofSeg[0] vs vpseg[1] Cut4 0.8<pKurama[0]<1



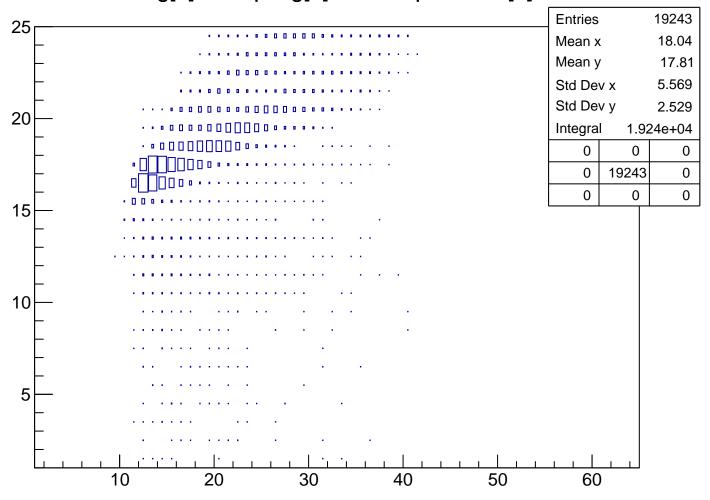
tofsegKurama[0] vs vpseg[1] Cut4 0.8<pKurama[0]<1



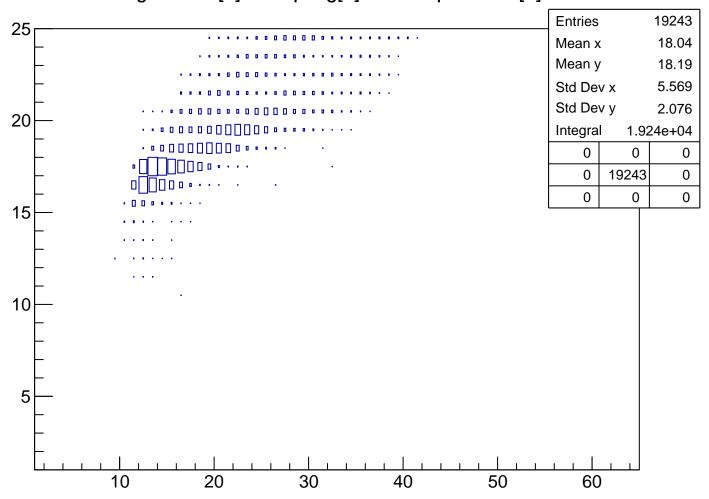
pKurama vs m2 Cut4 1<pKurama[0]<1.2 **Entries** 19243 Mean x 0.03853 Mean y 1.1 1.8 0.1716 Std Dev x Std Dev y 0.05869 1.6 Integral 1.815e+04 0 0 0 1.4 18154 375 714 0 0 1.2 8.0 0.6 0.4 0.2 -0.20.2 0.4 0.6 8.0 1.2



TofSeg[0] vs vpseg[1] Cut4 1<pKurama[0]<1.2



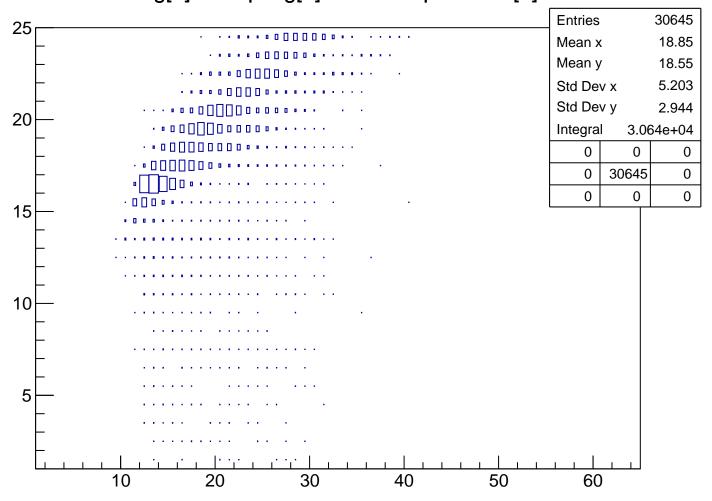
tofsegKurama[0] vs vpseg[1] Cut4 1<pKurama[0]<1.2



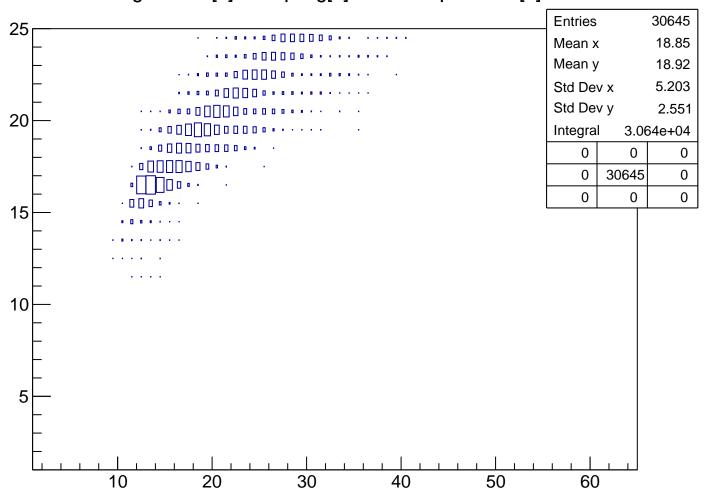
pKurama vs m2 Cut4 1.2<pKurama[0]<1.4 **Entries** 30645 0.054 Mean x Mean y 1.281 1.8 0.1853 Std Dev x Std Dev y 0.04338 1.6 Integral 2.903e+04 0 0 0 1.4 857 29026 762 0 0 0 1.2 8.0 0.6 0.4 0.2 0 -0.4 -0.2 0.2 0.4 0.6 8.0 1.2

Cut4 1.2<pKurama[0]<1.4 vpy[1] vs vpx[1] **Entries** 30645 400 -125.3Mean x Mean y -14.41300 54.55 Std Dev x Std Dev y 79.12 3.064e+04 Integral 200 0 0 0 30645 0 100 0 0 0 0 -100-200-300-400 -300-200-100100 200 300 400

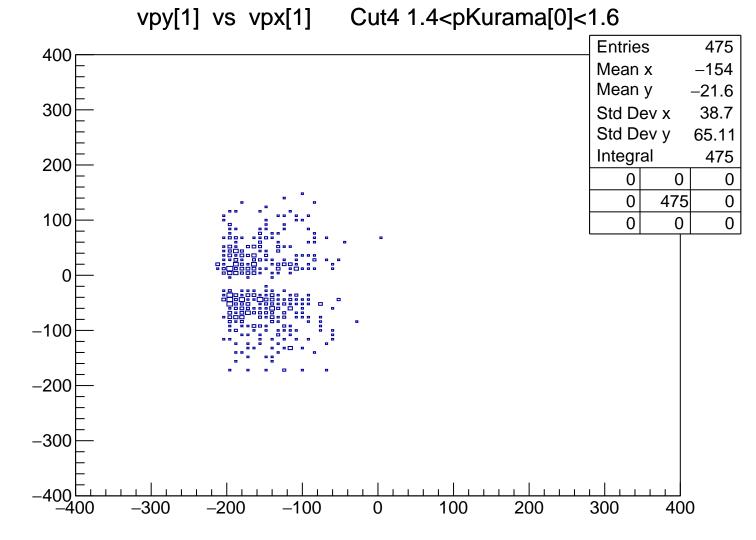
TofSeg[0] vs vpseg[1] Cut4 1.2<pKurama[0]<1.4



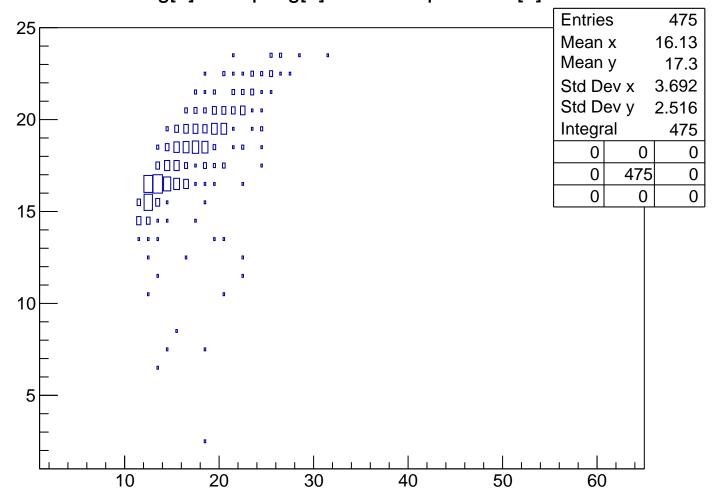
#### tofsegKurama[0] vs vpseg[1] Cut4 1.2<pKurama[0]<1.4



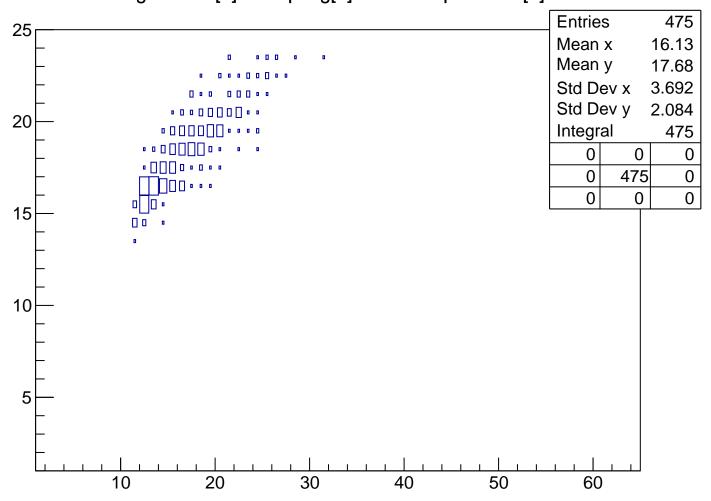
pKurama vs m2 Cut4 1.4<pKurama[0]<1.6 **Entries** 475 2 Mean x 0.08004 Mean y 1.441 1.8 Std Dev x 0.1981 Std Dev y 0.04196 1.6 Integral 434 0 1.4 23 434 18 0 0 0 1.2 8.0 0.6 0.4 0.2 0 -0.4 -0.2 0.2 0.4 0.6 8.0 1.2 1.4 0



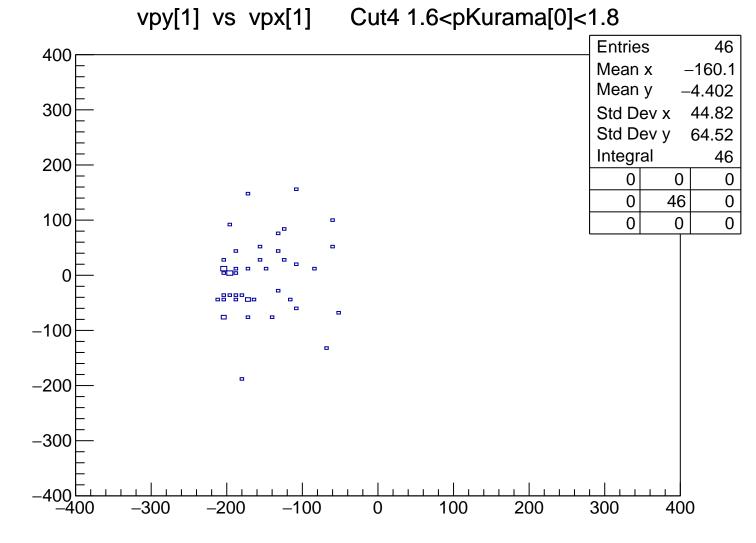
TofSeg[0] vs vpseg[1] Cut4 1.4<pKurama[0]<1.6



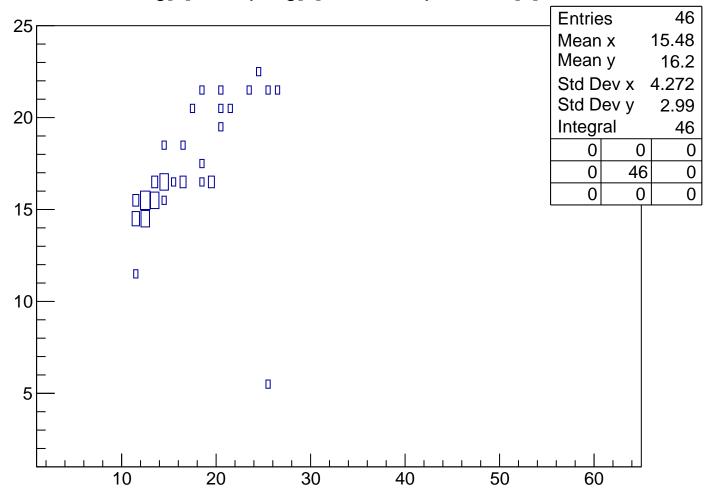
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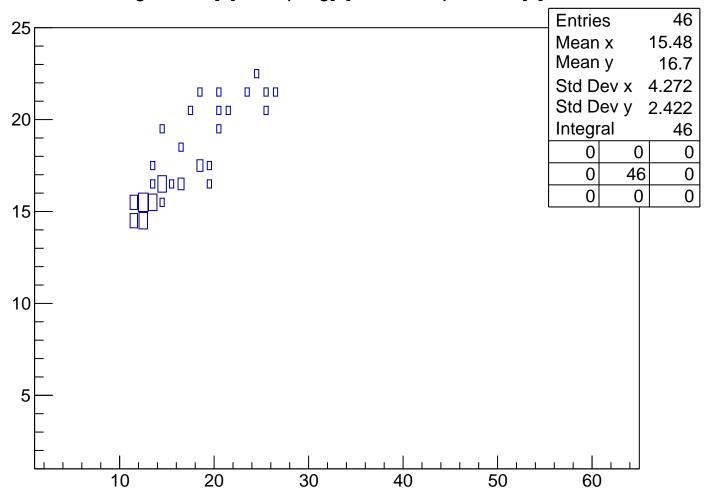
pKurama vs m2 Cut4 1.6<pKurama[0]<1.8 **Entries** 46 2 0.1135 Mean x Mean y 1.671 1.8 0 Std Dev x 0.249 Std Dev y 0.05242 1.6 Integral 43 0 0 0 1.4 3 43 0 0 0 1.2 8.0 0.6 0.4 0.2 -0.2 0.2 0.4 0.6 8.0 1.2 1.4 0



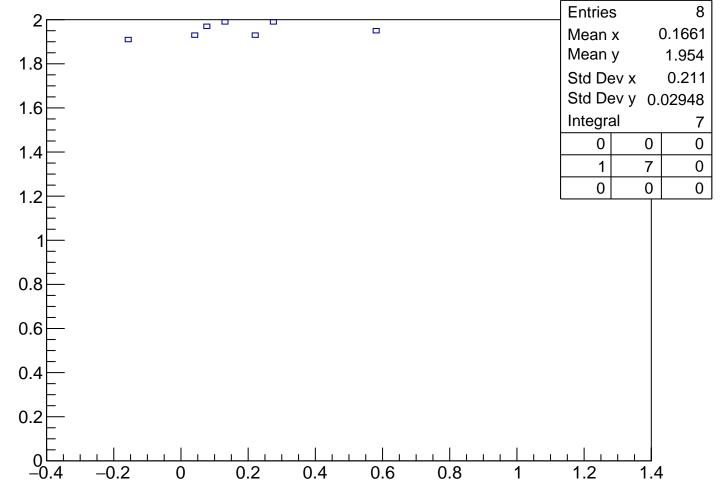
TofSeg[0] vs vpseg[1] Cut4 1.6<pKurama[0]<1.8

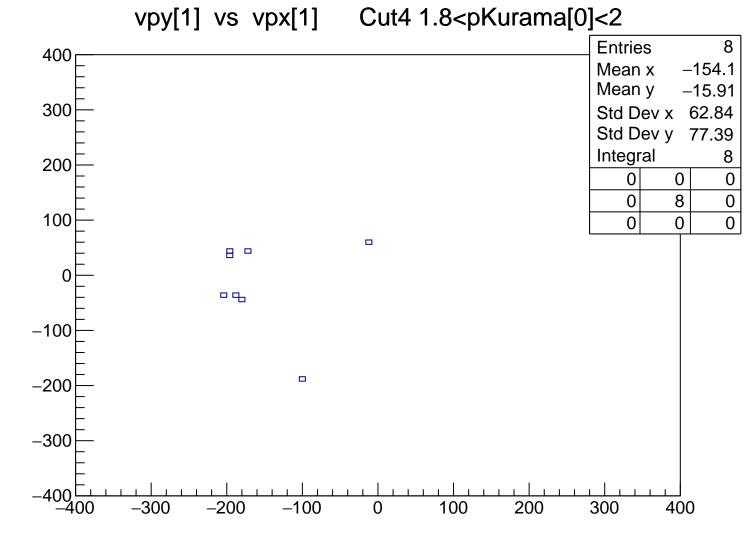


tofsegKurama[0] vs vpseg[1] Cut4 1.6<pKurama[0]<1.8

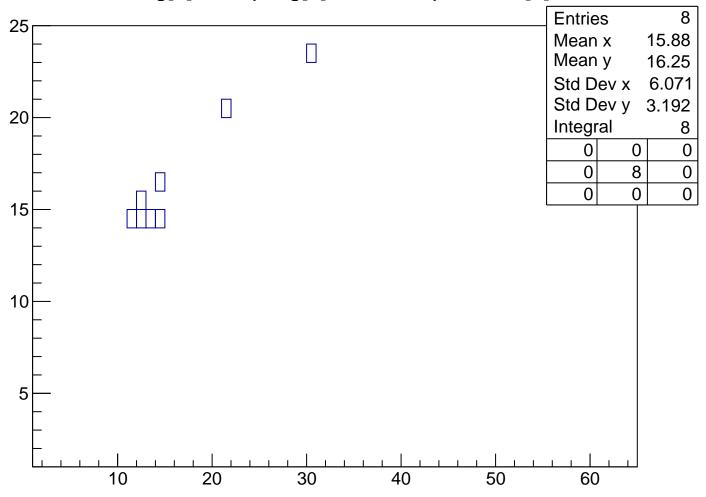


# pKurama vs m2 Cut4 1.8<pKurama[0]<2

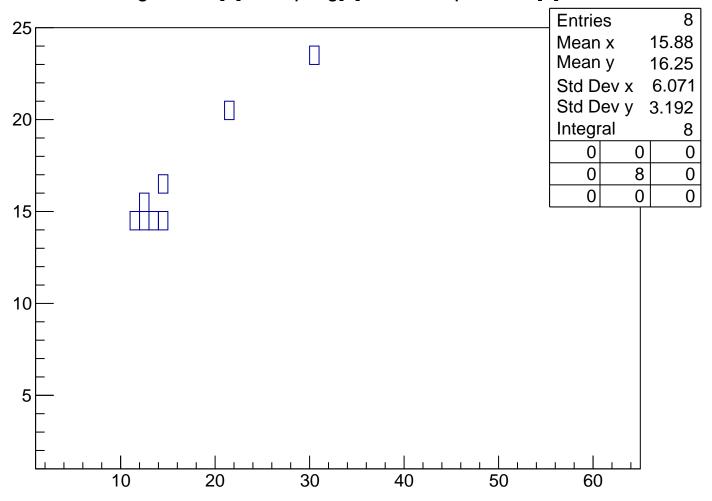




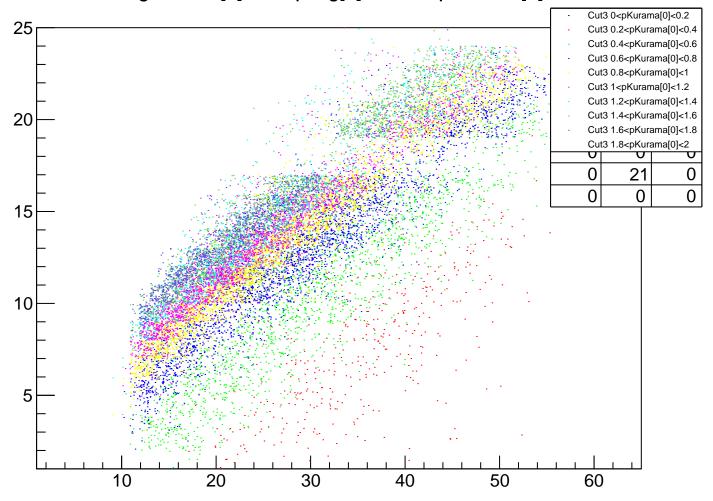
# TofSeg[0] vs vpseg[1] Cut4 1.8<pKurama[0]<2



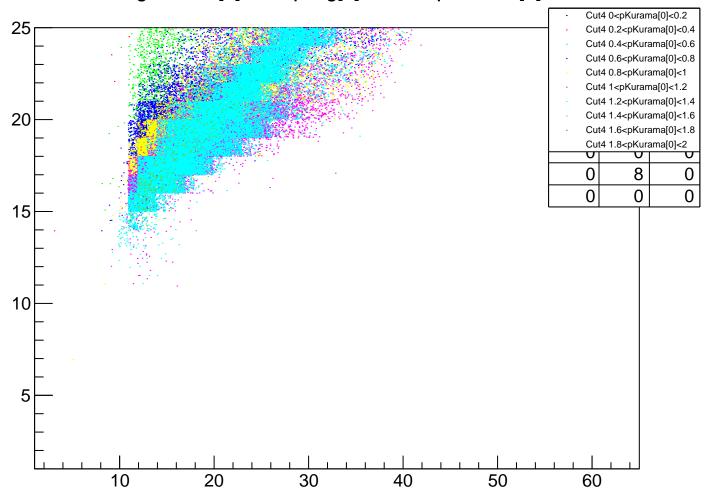
# tofsegKurama[0] vs vpseg[1] Cut4 1.8<pKurama[0]<2



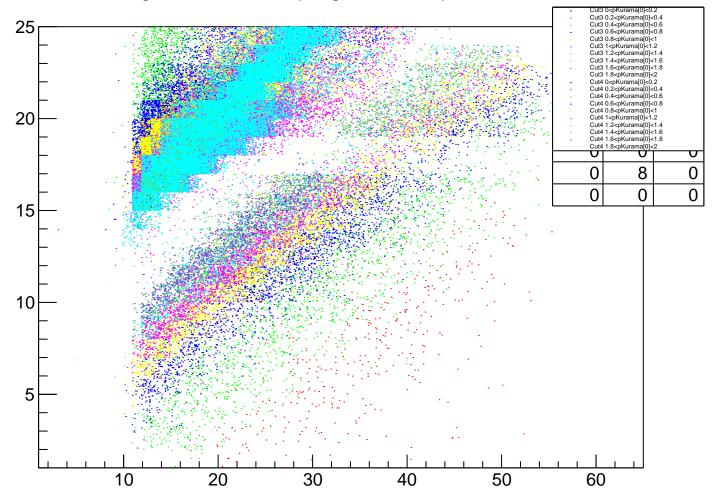
## tofsegKurama[0] vs vpseg[1] Cut3 0<pKurama[0]<0.2



tofsegKurama[0] vs vpseg[1] Cut4 0<pKurama[0]<0.2



tofsegKurama[0] vs vpseg[1] Cut3 0<pKurama[0]<0.2



## tofsegKurama[0] vs vpseg[1] Cut3 0.4<pKurama[0]<0.6

