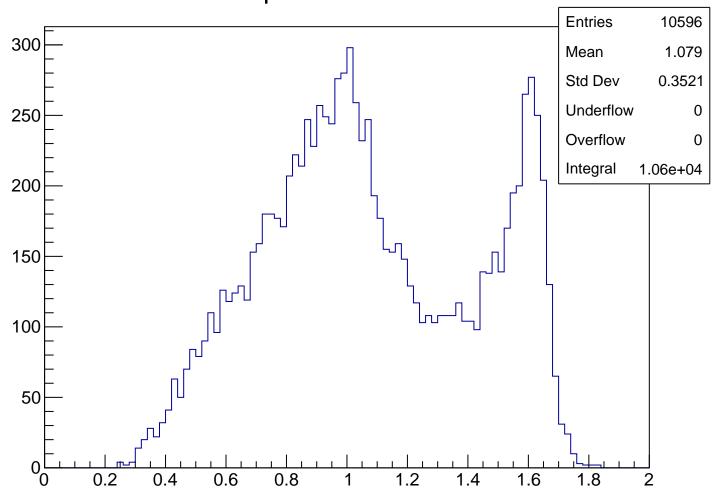
ThetaKurama



pKurama



pKurama Cut1







m2 Cut1 **Entries** 10596 0.5625 800 Mean Std Dev 0.4084 700 Underflow 462 Overflow 220 600 Integral 9914 500 400 300 200 100 0 -0.4 0.2 0.4 0.6 8.0 0

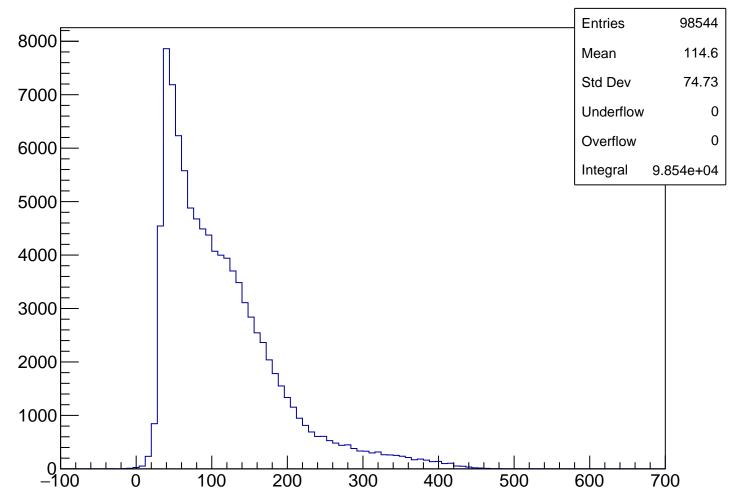
chisqrKurama



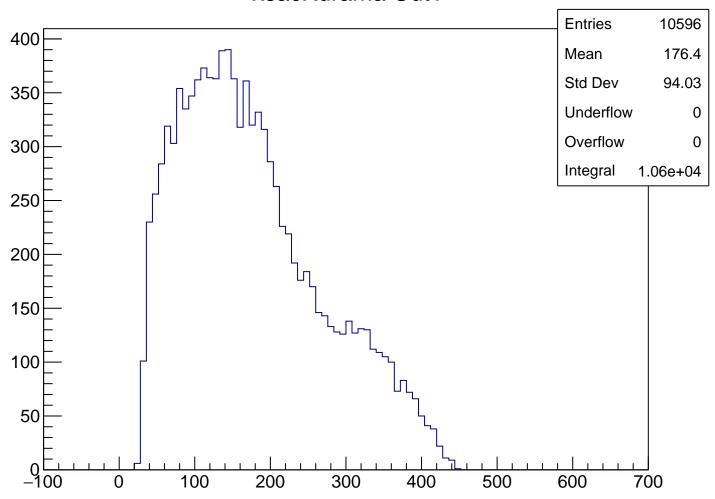
qKurama



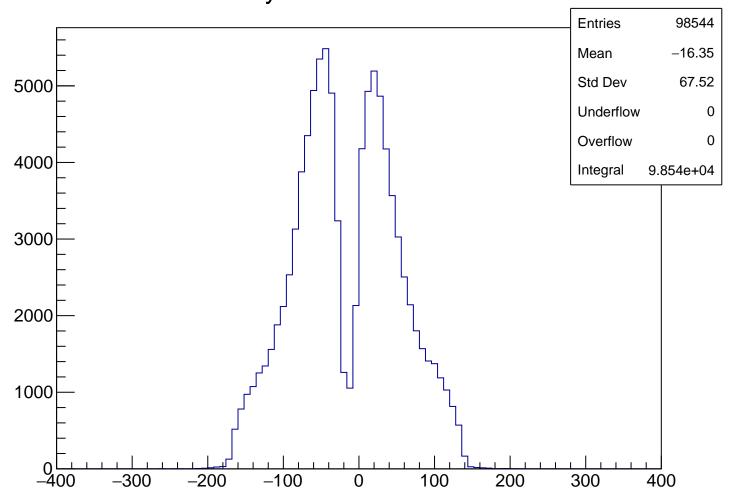
xsacKurama



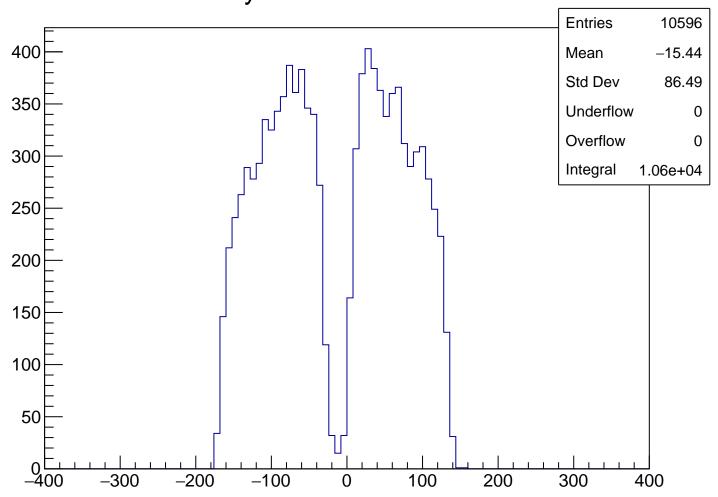
xsacKurama Cut1



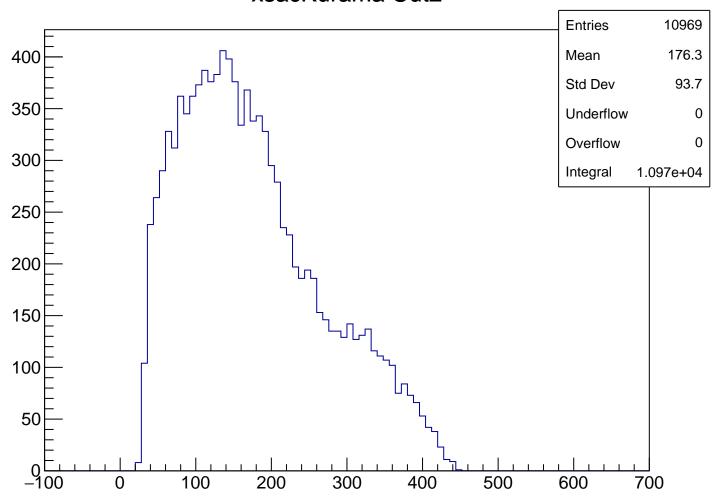
ysacKurama



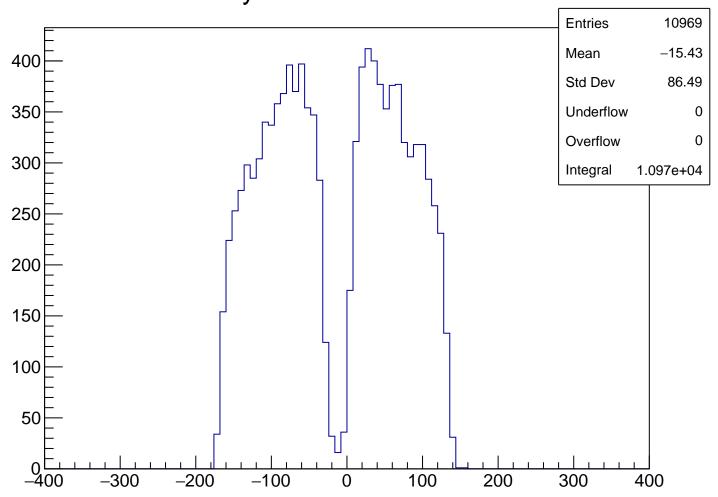
ysacKurama Cut1



xsacKurama Cut2



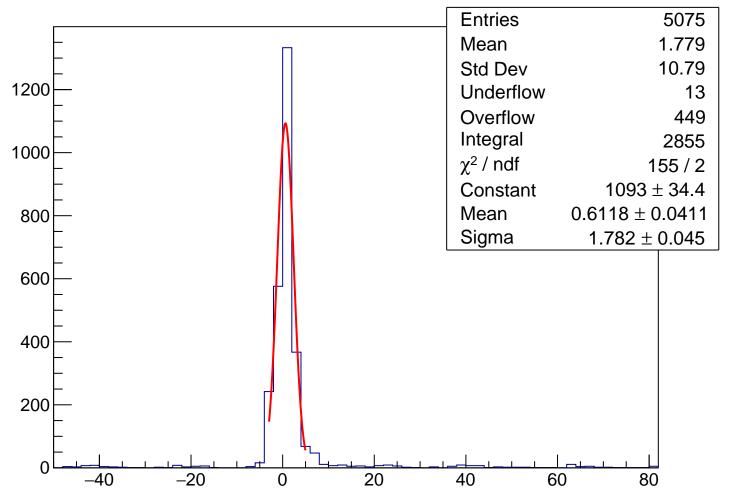
ysacKurama Cut2



tSac Or



tSac Or Cut2



Trigger Flag BeamTofPs



Trigger Flag BeamTofPs Cut2 **Entries** 10596 Mean 957.3 Std Dev 1.274 Underflow Overflow Integral 1.06e+04  $\chi^2$  / ndf 483.4 / 6  $3481 \pm 38.6$ Constant Mean  $957.4 \pm 0.0$ Sigma  $1.159 \pm 0.006$ 

980

1000

1020

10<sup>3</sup>

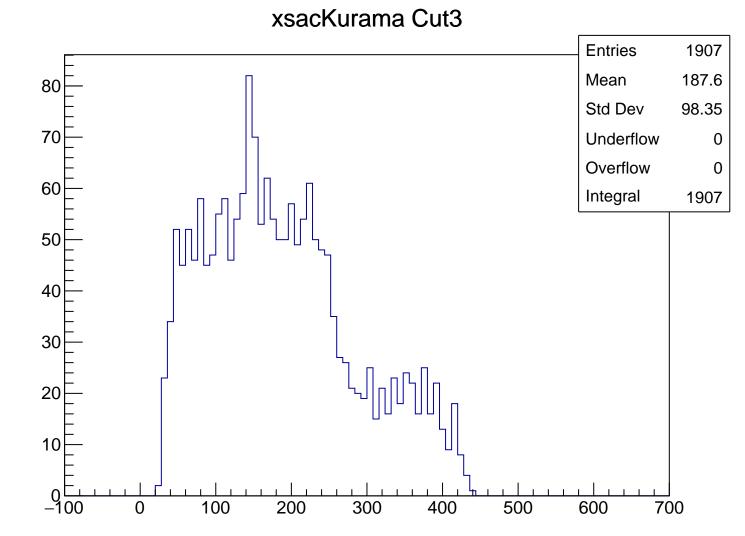
 $10^{2}$ 

10

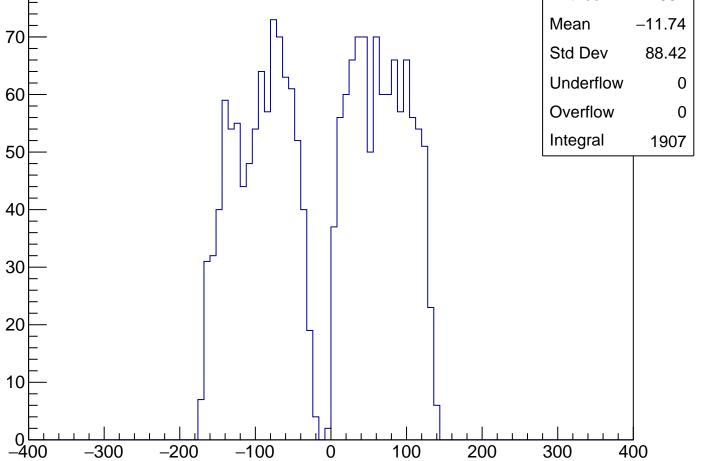
920

940

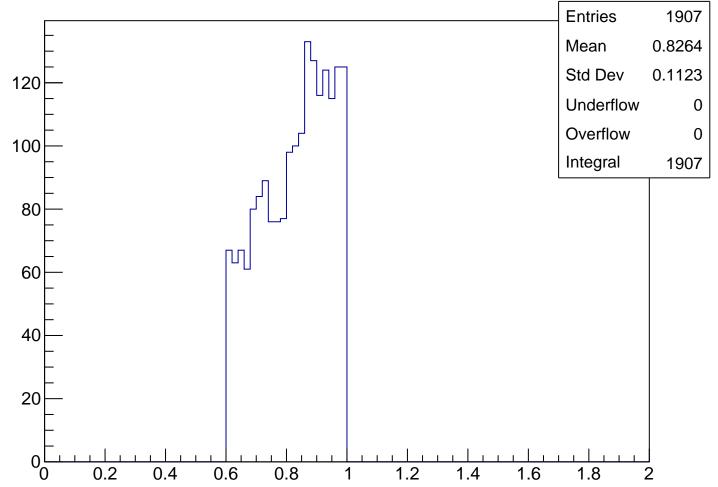
960



ysacKurama Cut3 **Entries** 1907 Mean -11.74Std Dev 88.42 Underflow 0 Overflow 0 Integral 1907



pKurama Cut3



m2 Cut3 **Entries** 1907 400 Mean 0.0209 Std Dev 0.03627 350 Underflow 0 Overflow 0 300 Integral 1907 250 200 150 100 50 0.2 -0.20 0.4 0.6 8.0 1.2 1.4

tSac Or Cut4 **Entries** 1753 Mean 0.7684 2.107 Std Dev 700 Underflow Overflow 600 Integral 1753  $\chi^2$  / ndf 2.498 / 2 500  $755.6 \pm 22.7$ Constant Mean  $0.6287 \pm 0.0451$ Sigma  $1.831 \pm 0.035$ 400 300 200 100 0

20

40

60

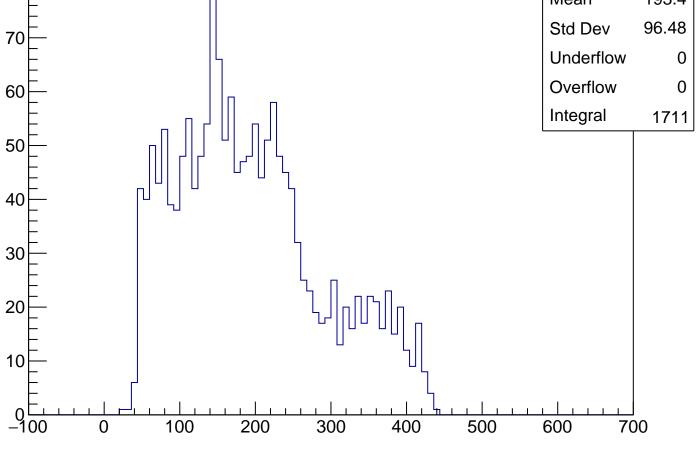
80

-40

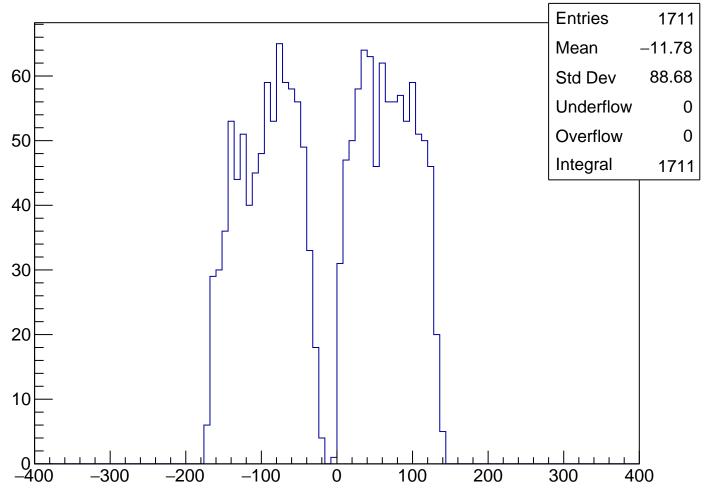
-20

0

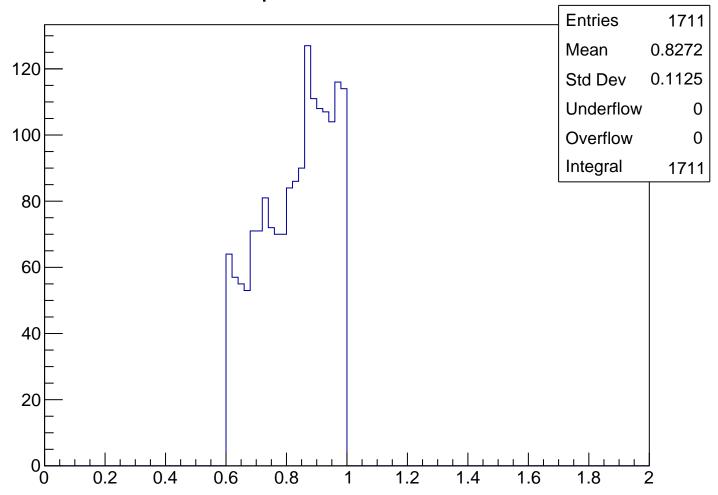
xsacKurama Cut4 **Entries** 1711 80 Mean 193.4 96.48 Std Dev 70 Underflow 0 Overflow 0 60 Integral 1711 50 40 30 20



ysacKurama Cut4



pKurama Cut4



m2 Cut4 **Entries** 1711 0.02101 Mean 350 0.03619 Std Dev Underflow 0 300 Overflow 0 Integral 1711 250 200 150 100 50 -0.2 0.2

0.4

0.6

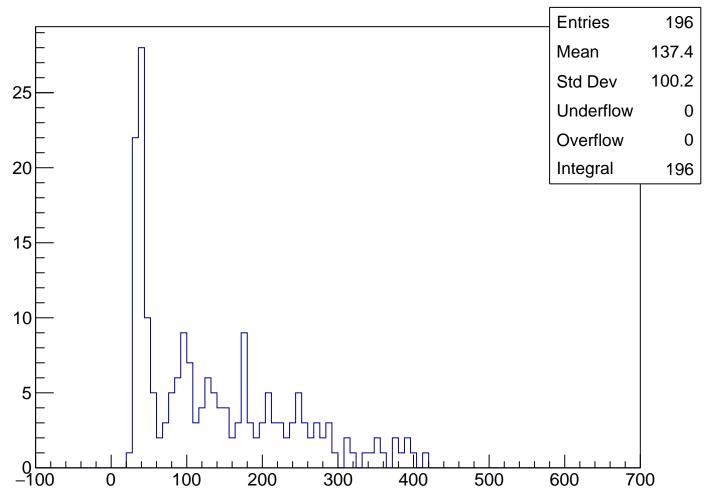
8.0

1.2

1.4

0

xsacKurama Cut Ver 4



ysacKurama Cut Ver 4 **Entries** 196 Mean -11.4286.12 Std Dev 10 Underflow 0 Overflow 0 8 Integral 196 6 4 2

100

200

300

400

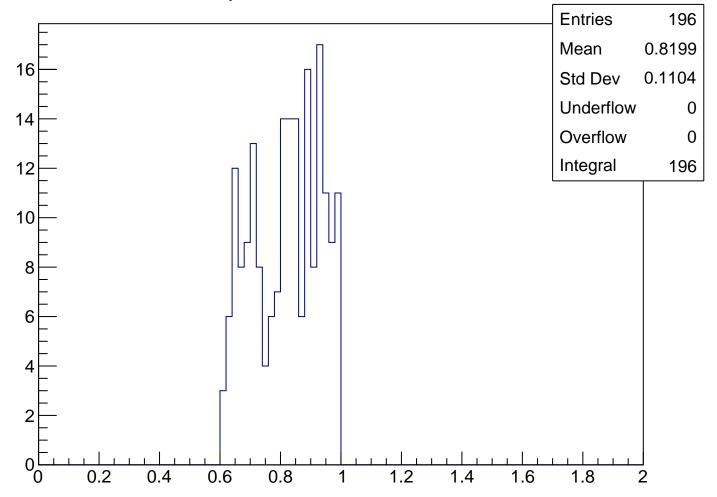
-300

<del>-4</del>00

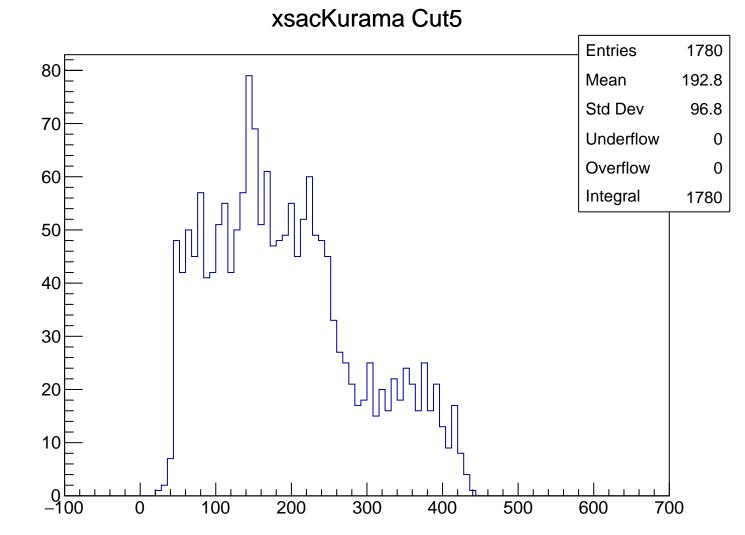
-200

-100

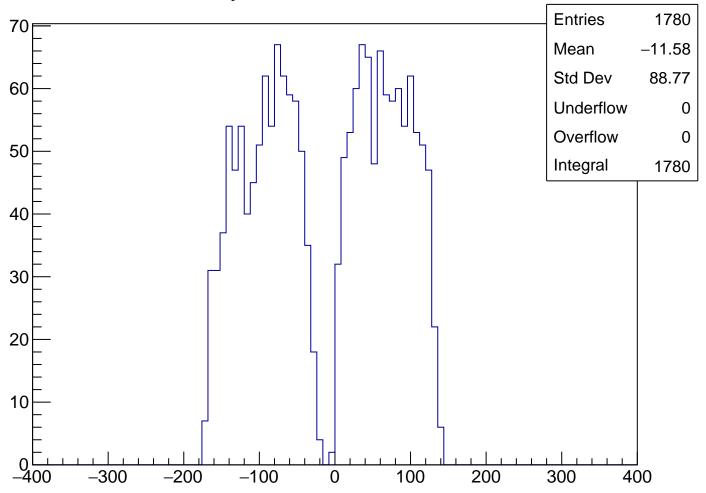
pKurama Cut Ver 4



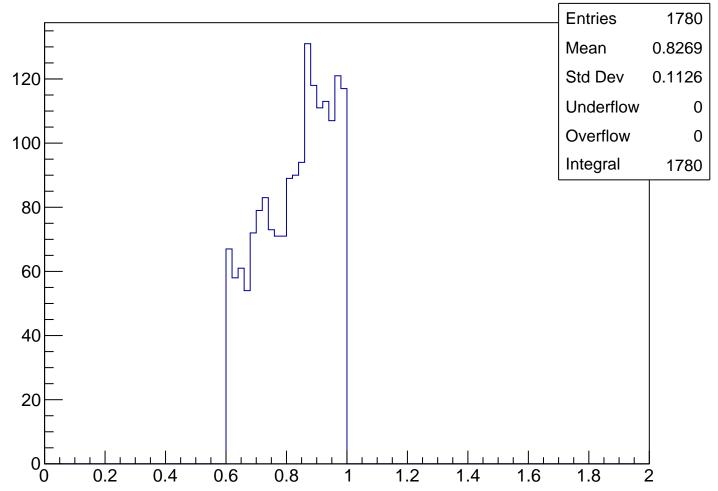
m2 Cut Ver 4 **Entries** 196 0.01991 Mean 35 Std Dev 0.03701 Underflow 0 30 Overflow 0 Integral 196 25 20 15 10 5 0.2 -0.20 0.4 0.6 8.0 1.2 1.4



ysacKurama Cut5

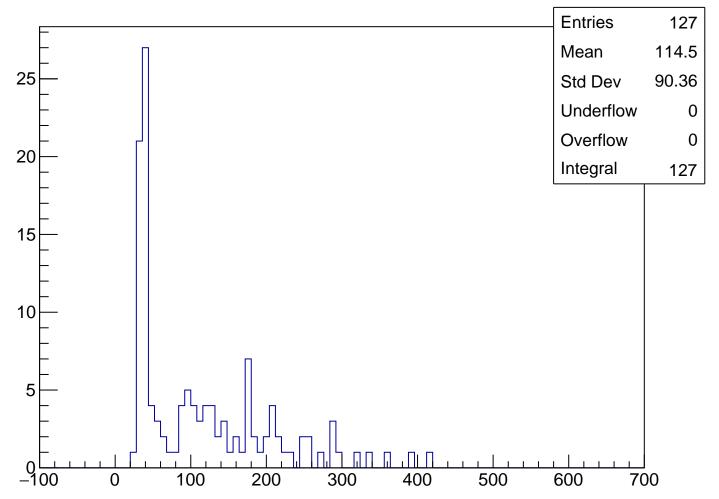


pKurama Cut5

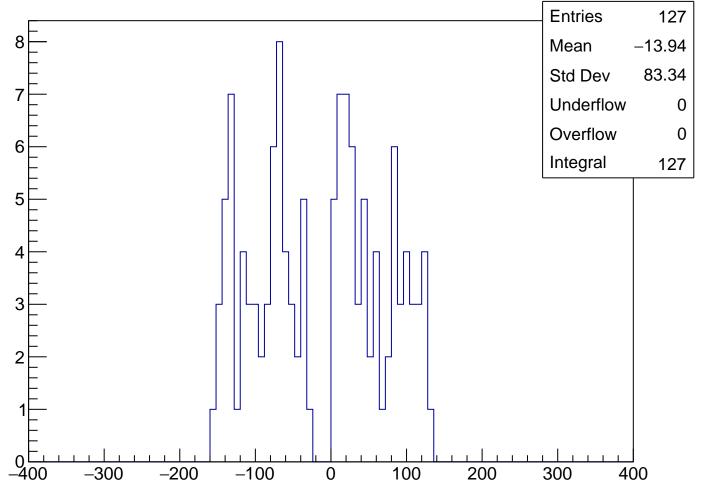


m2 Cut5 **Entries** 1780 0.021 Mean 350 Std Dev 0.03627 Underflow 0 300 Overflow 0 Integral 1780 250 200 150 100 50 0.2 -0.20 0.4 0.6 8.0 1.2 1.4

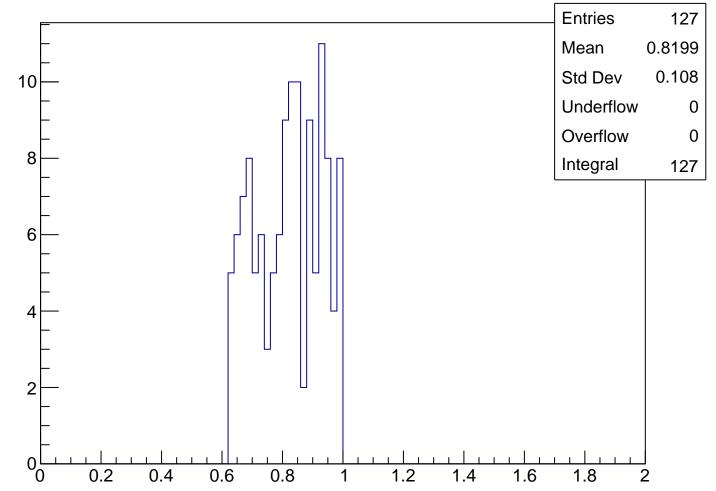
xsacKurama Cut Ver 5



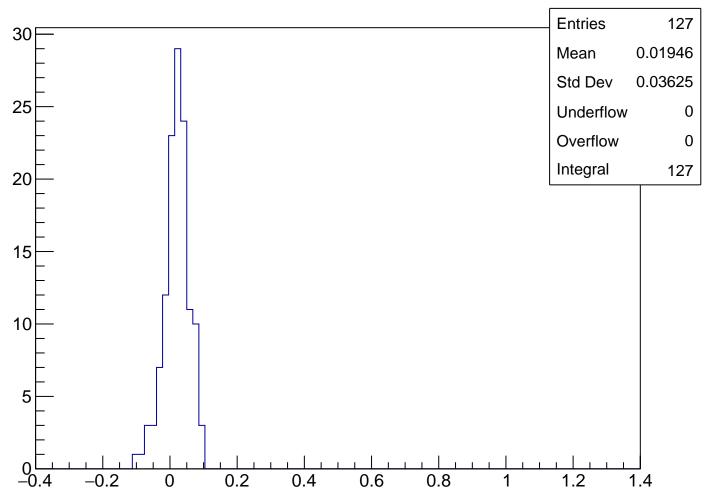
ysacKurama Cut Ver 5



pKurama Cut Ver 5

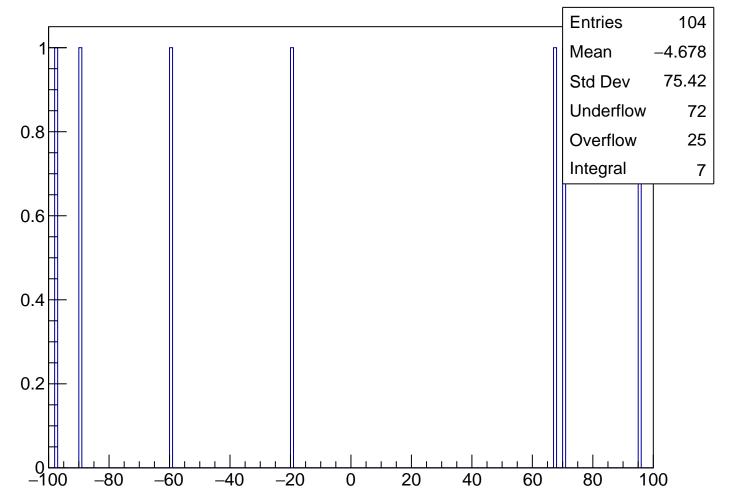


m2 Cut Ver 5



tSac Or Cut5 **Entries** 1951 10<sup>3</sup> Mean 0.723 1.958 Std Dev Underflow 0 Overflow Integral 1951  $10^{2}$  $\chi^2$  / ndf 91.11 / 6 Constant  $490.9 \pm 13.9$ Mean  $0.5717 \pm 0.0356$ Sigma  $1.477 \pm 0.024$ 10 -40 -20 20 40 60 80

## tSac Or Cut Ver 5

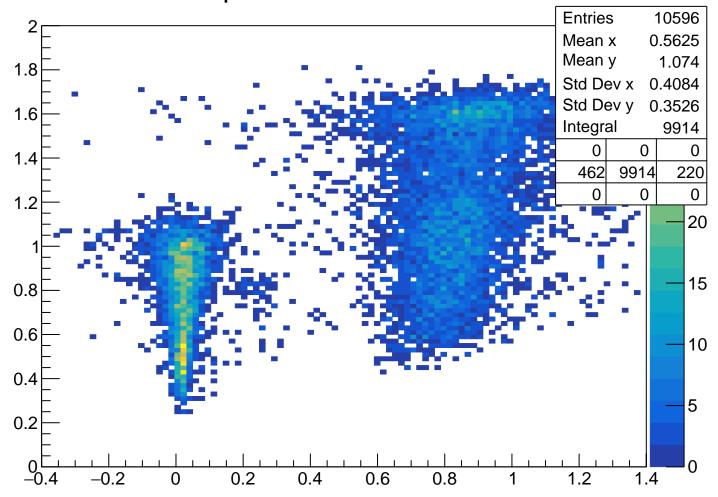


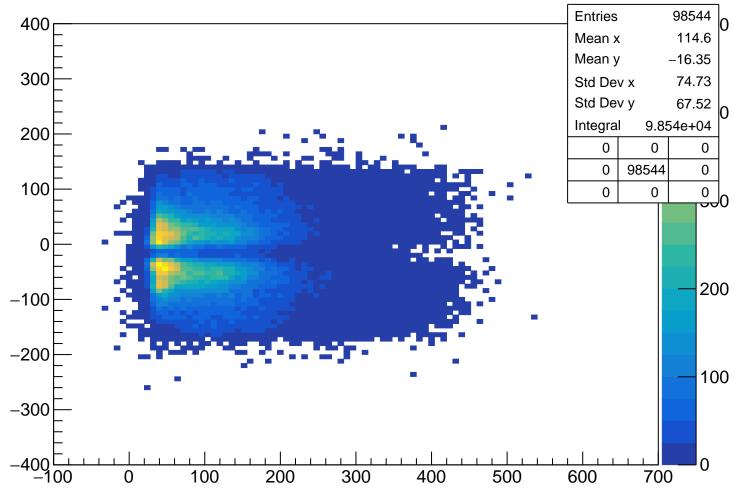
pKurama % ThetaKurama

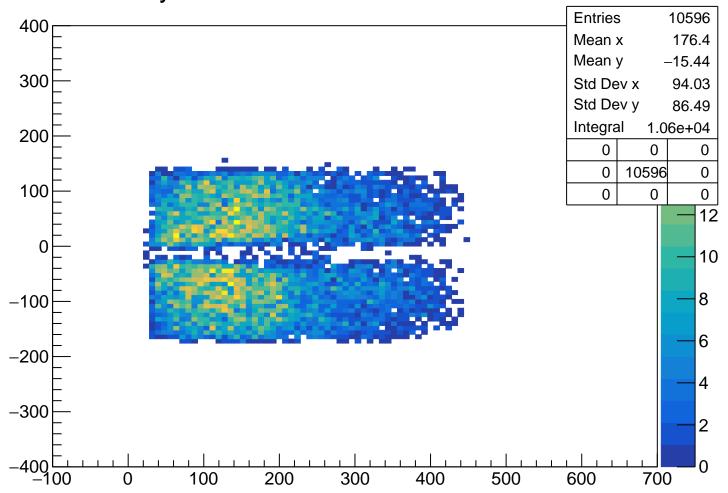


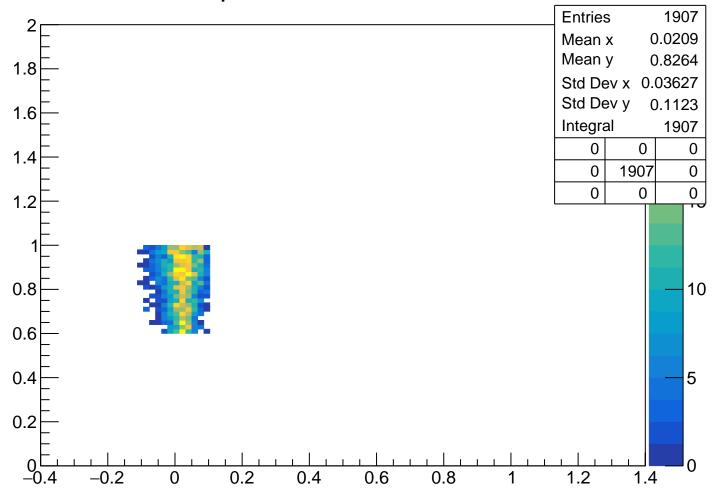
pKurama % m2

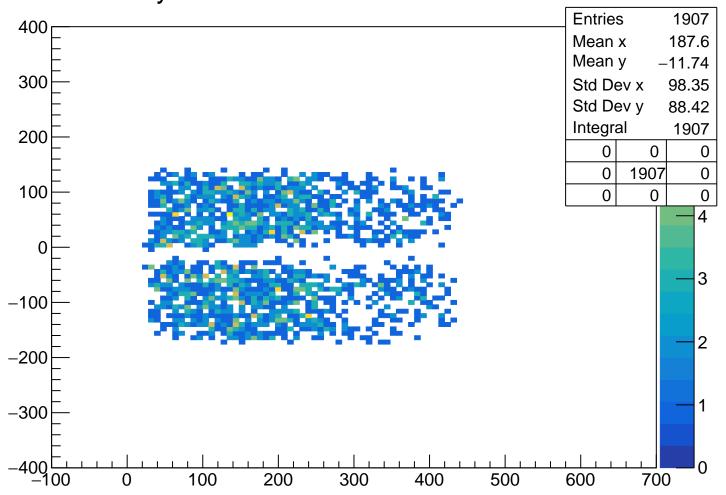


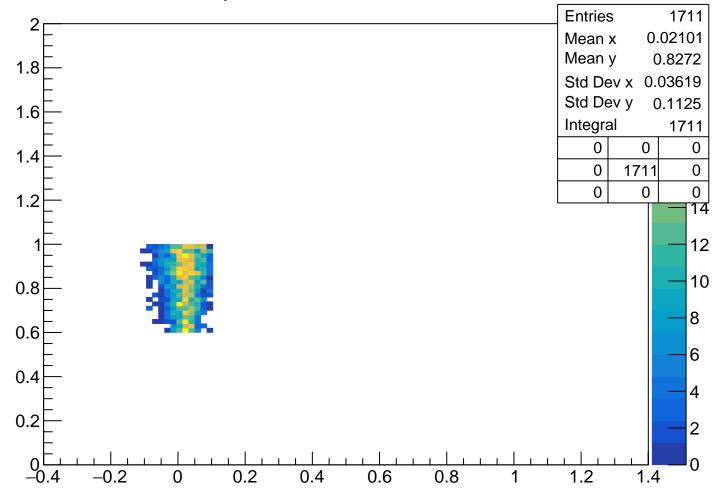


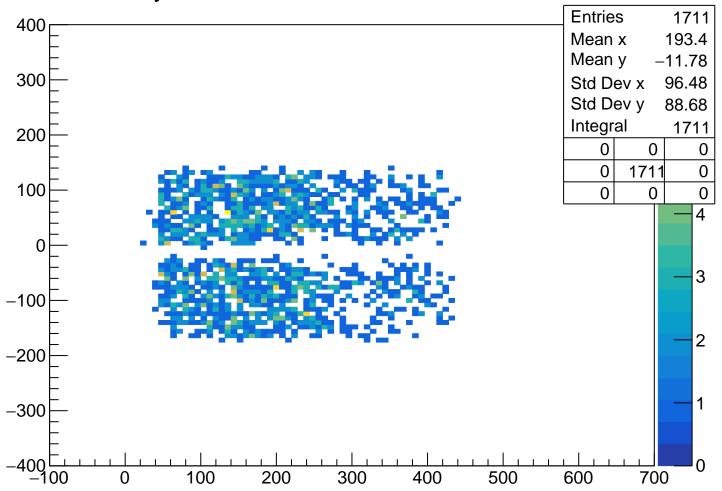




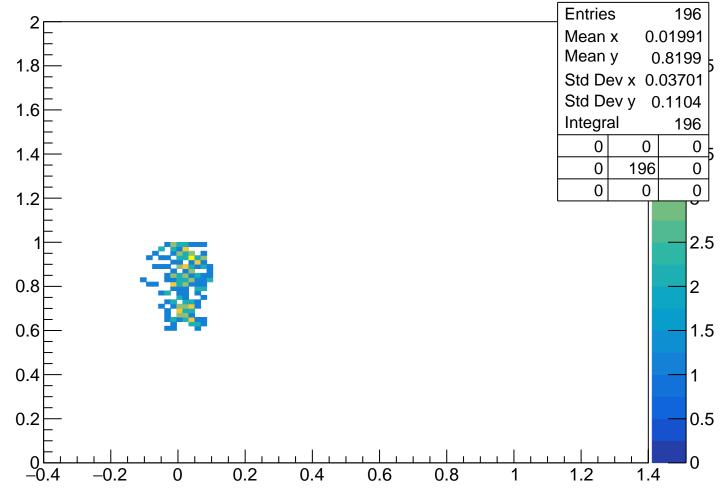


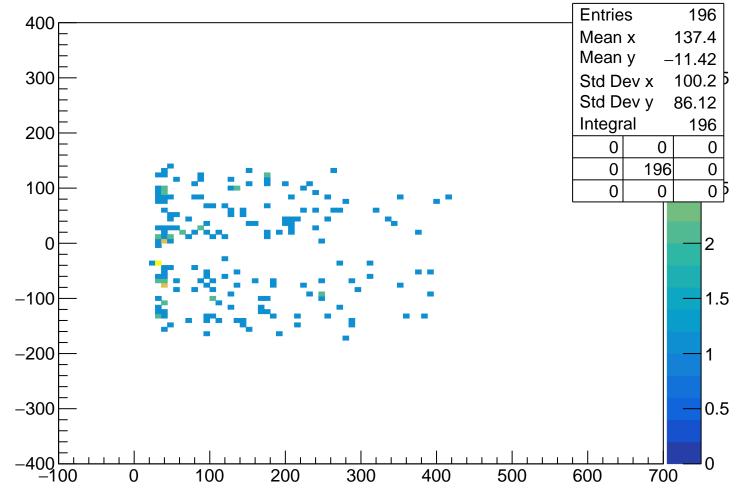


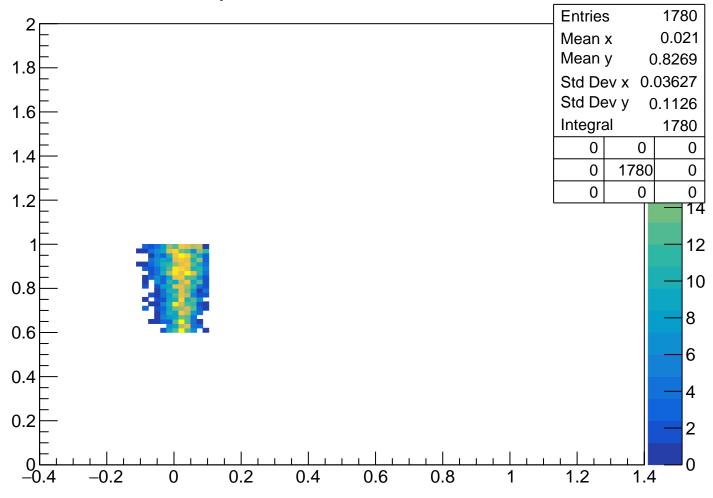


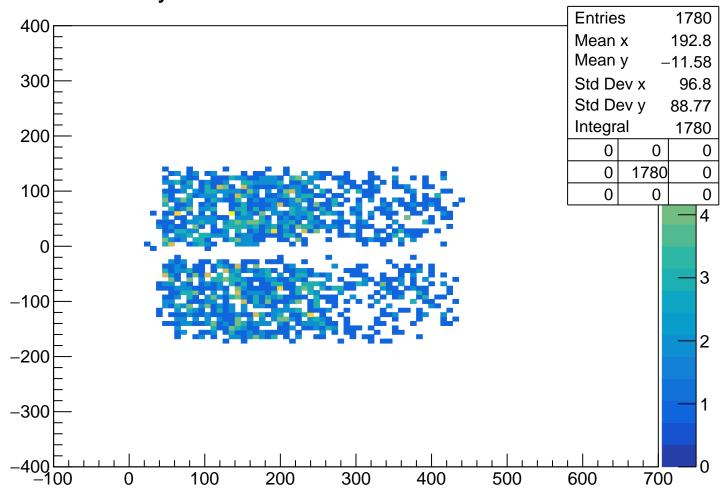


pKurama % m2 Cut Ver 4









pKurama % m2 Cut Ver 5

