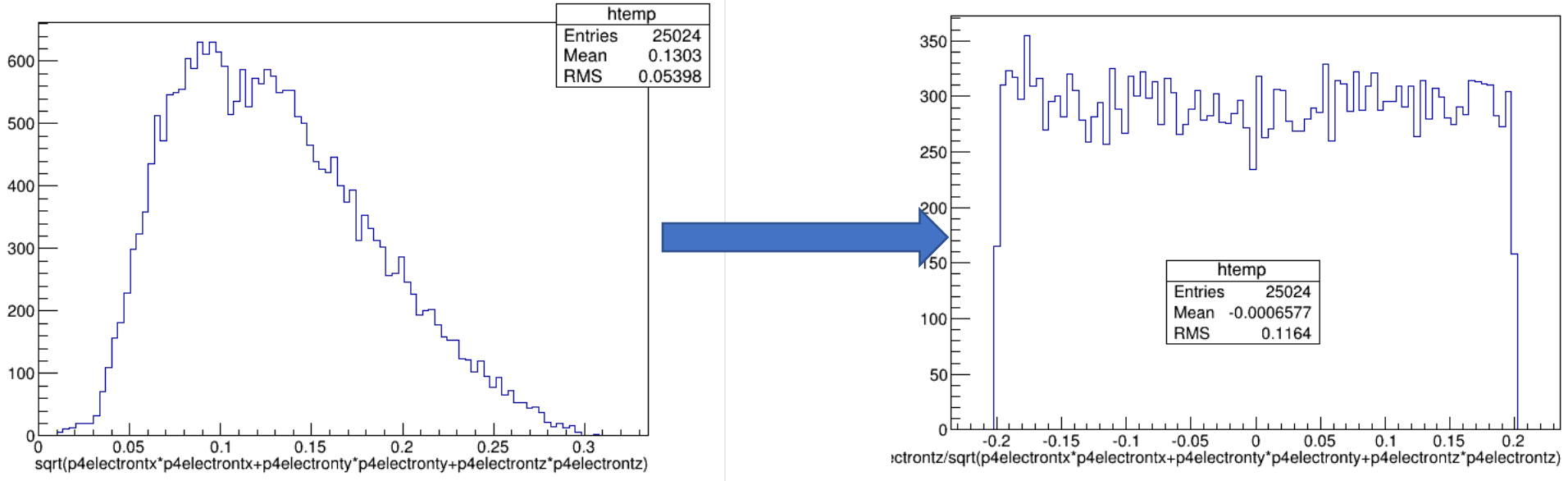
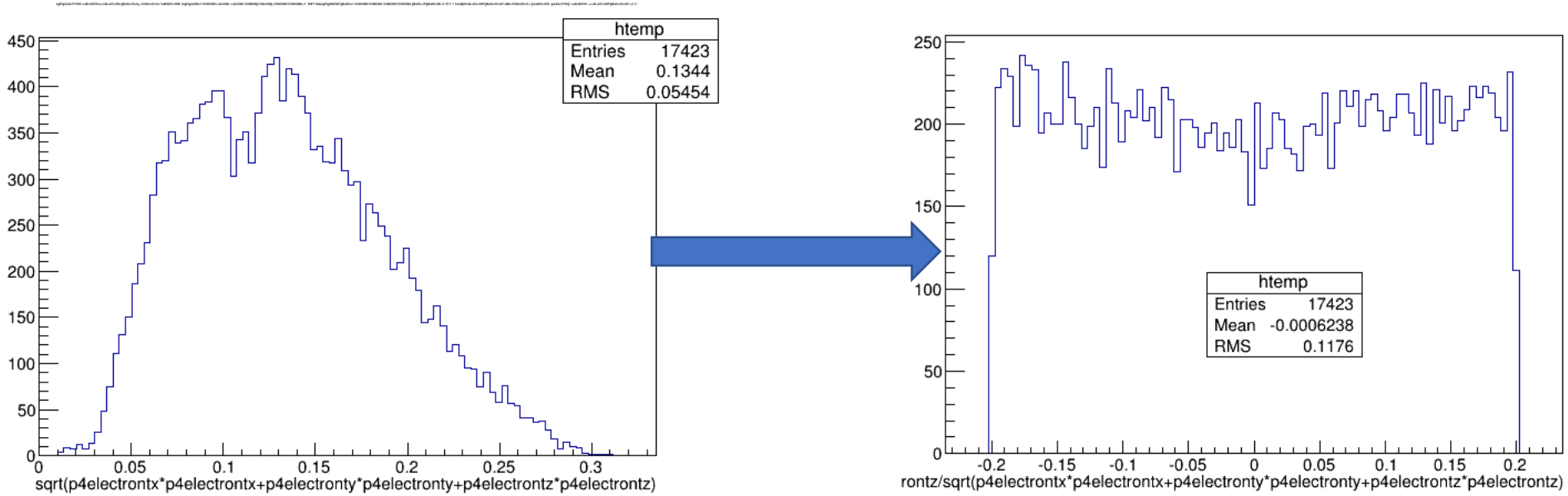
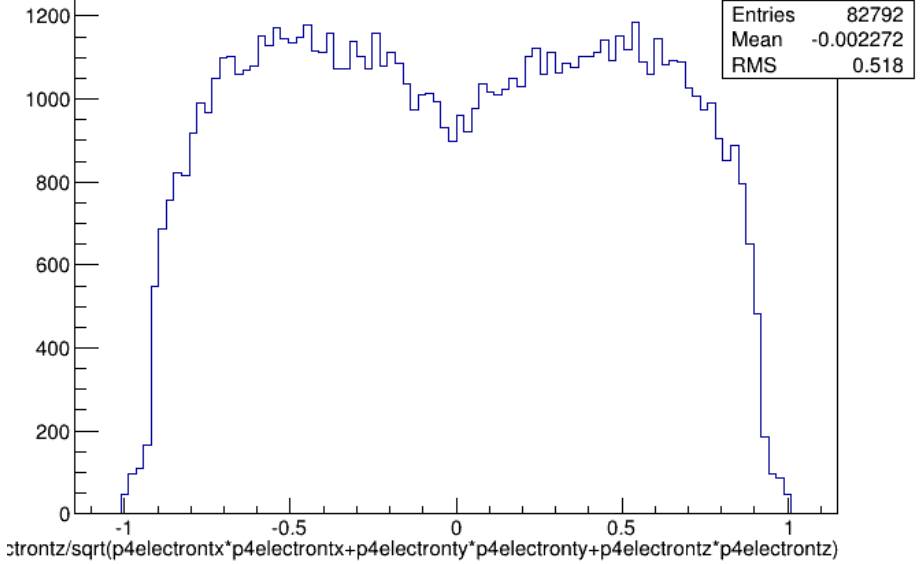
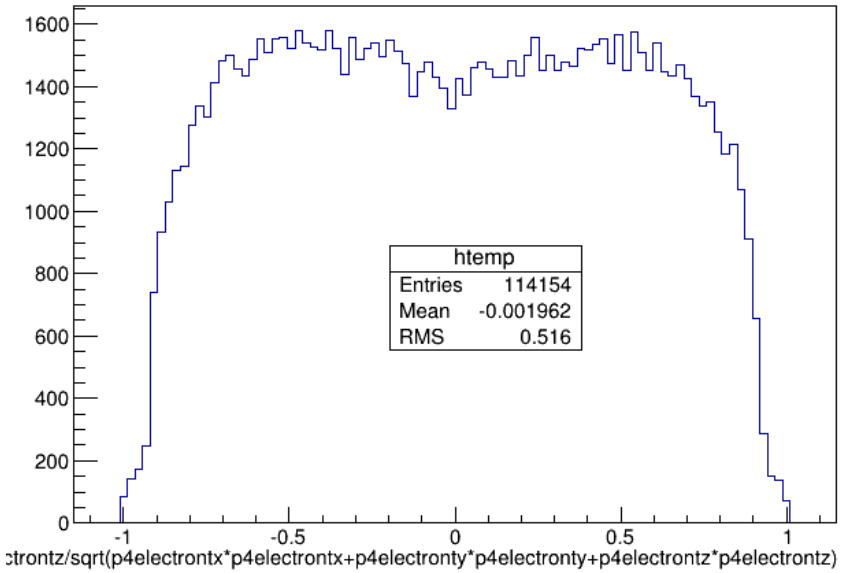
Problem:


htemp
Entries 25024
Mean 0.1303
RMS 0.05398
sqrt(p4electrontx*p4electrontx+p4electronty*p4electronty+p4electrontz*p4electrontz)
htemp
Entries 25024
Mean -0.0006577
RMS 0.1164
ctrontz/sqrt(p4electrontx*p4electrontx+p4electronty*p4electronty+p4electrontz*p4electrontz)

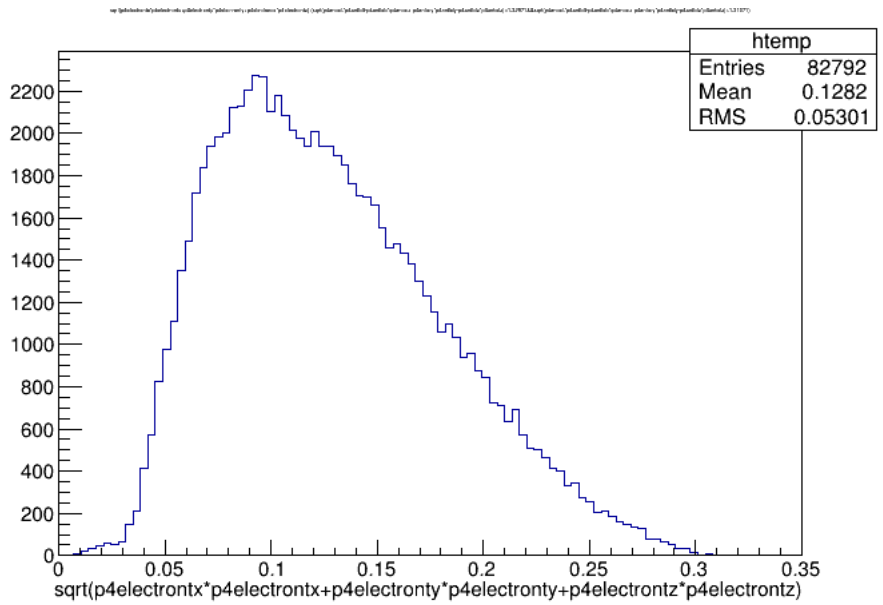

htemp
Entries 17423
Mean 0.1344
RMS 0.05454
sqrt(p4electrontx*p4electrontx+p4electronty*p4electronty+p4electrontz*p4electrontz)
htemp
Entries 17423
Mean -0.0006238
RMS 0.1176
rontz/sqrt(p4electrontx*p4electrontx+p4electronty*p4electronty+p4electrontz*p4electrontz)

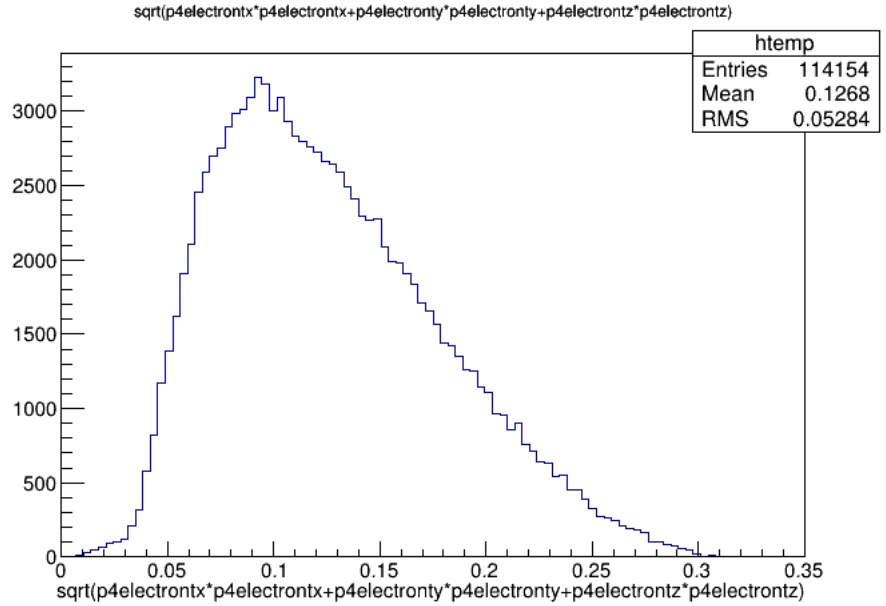


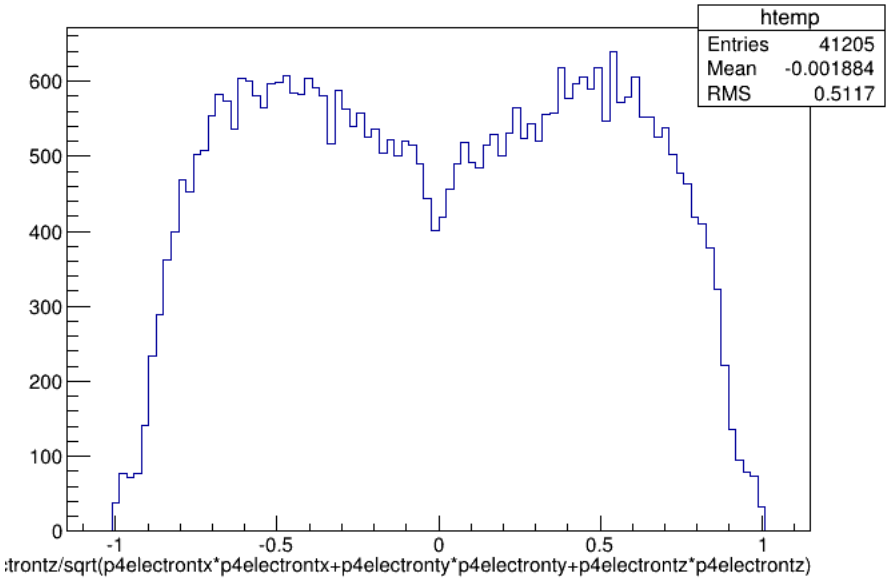


Xibar masswindow

No Xibar masswindow

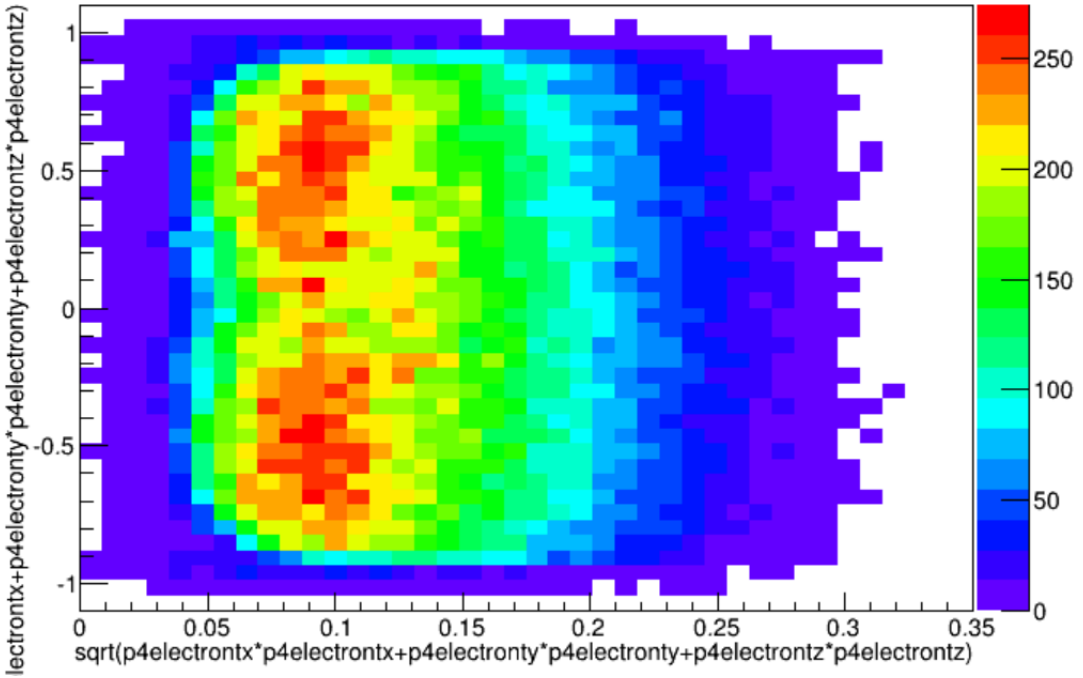


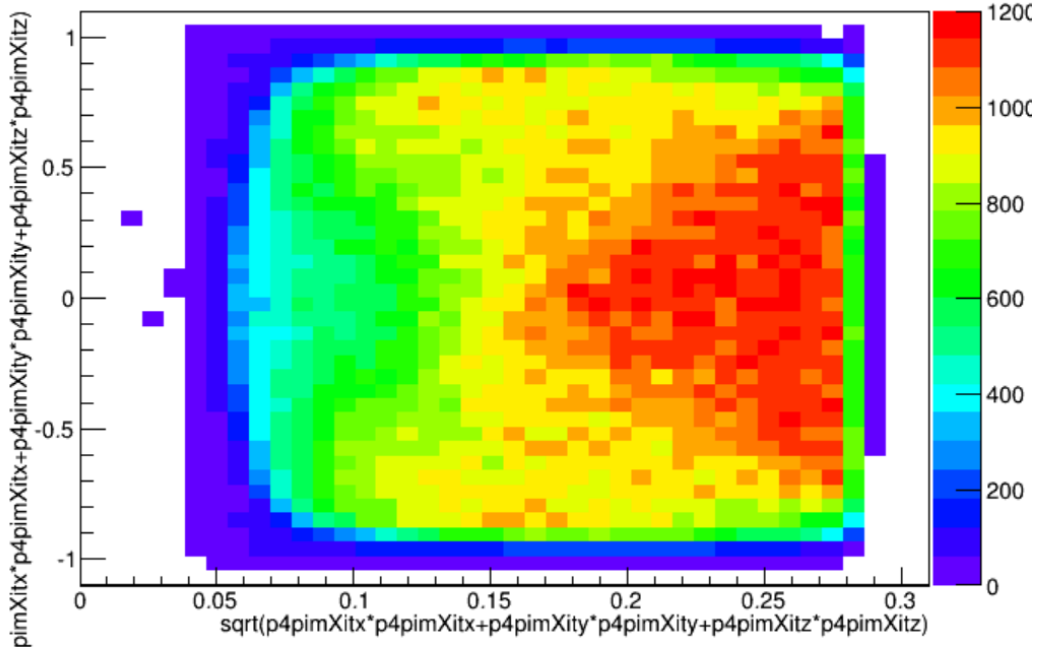




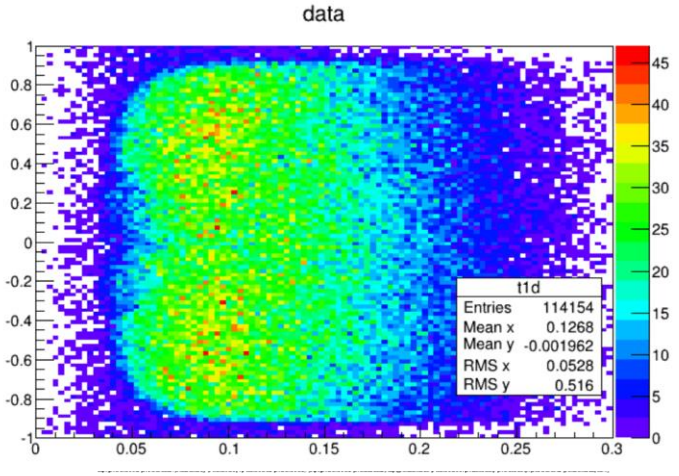
sqrt(p4electrontx*p4electrontx+p4electronty*p4electronty+
p4electrontz*p4electrontz)<0.1

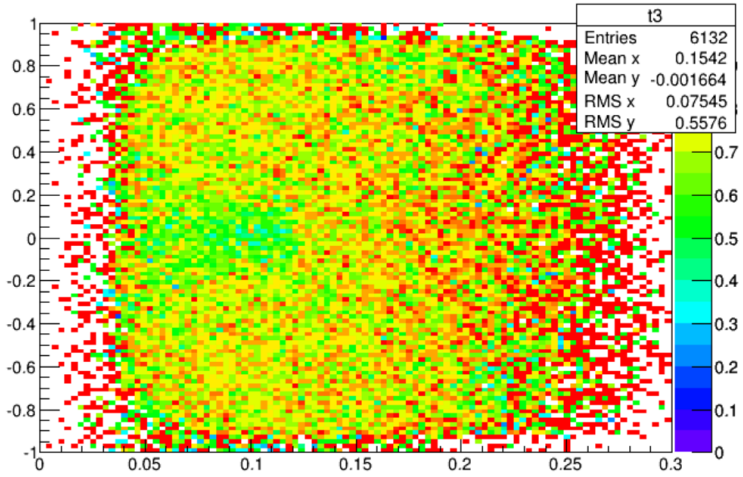
No Xibar masswindow

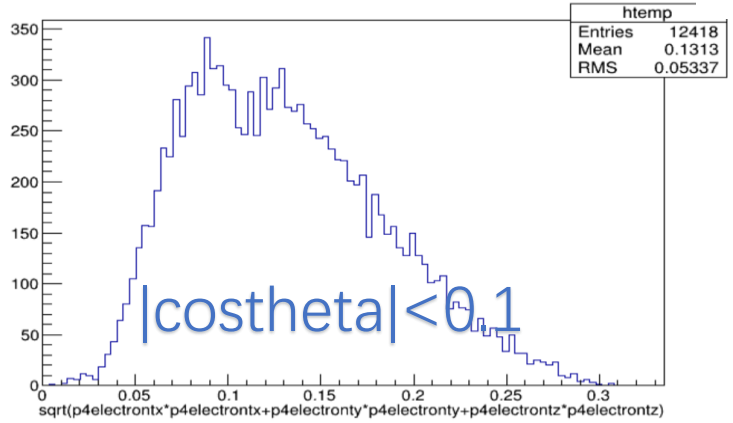

lectrontx+p4electronty*p4electronty+p4electrontz*p4electrontz)
sqrt(p4electrontx*p4electrontx+p4electronty*p4electronty+p4electrontz*p4electrontz)
1
0.5
0
-0.5
-1
0
0.05
0.1
0.15
0.2
0.25
0.3
0.35
250
200
150
100
50
0

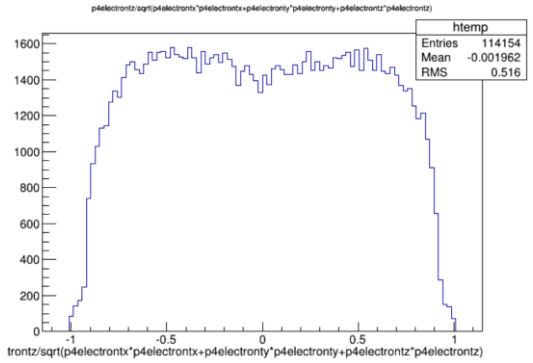

pimXitx*p4pimXitx+p4pimXity*p4pimXity+p4pimXitz*p4pimXitz)
sqrt(p4pimXitx*p4pimXitx+p4pimXity*p4pimXity+p4pimXitz*p4pimXitz)
1
0.5
0
-0.5
-1
0
0.05
0.1
0.15
0.2
0.25
0.3
1200
1000
800
600
400
200
0

Npim>2,Nprp>1

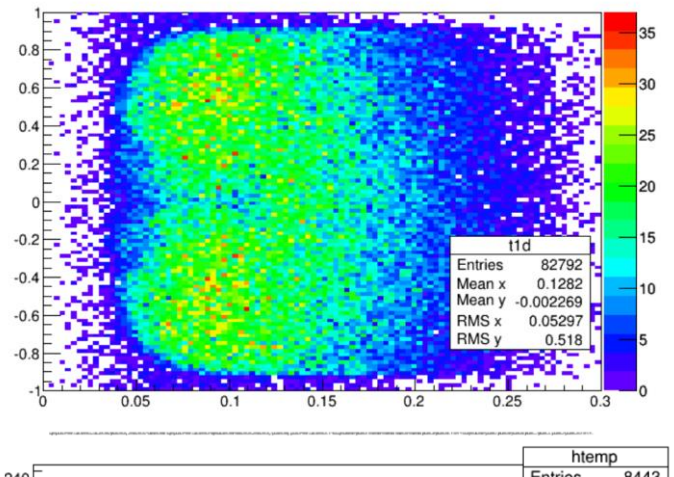


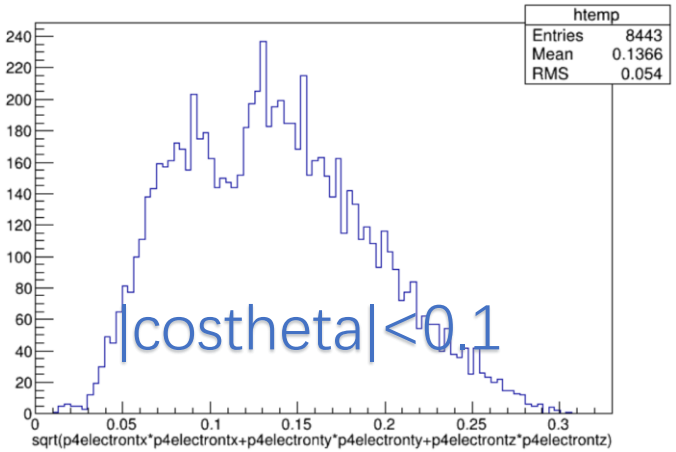


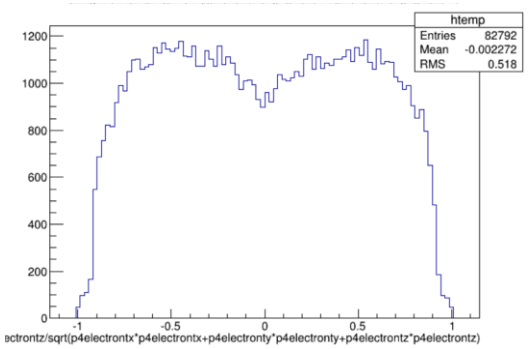




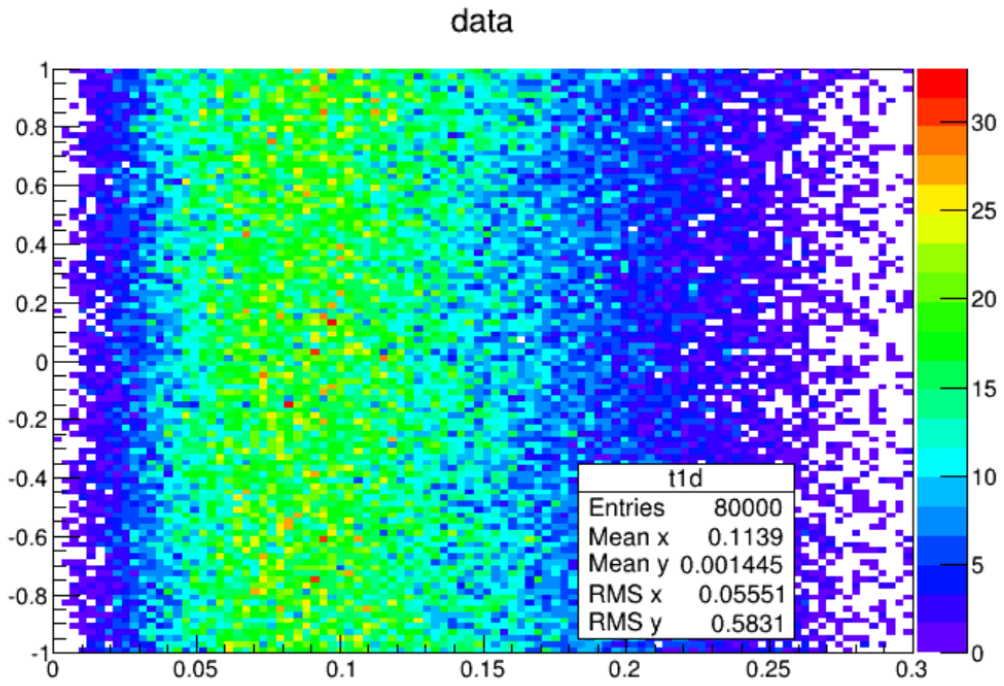
Npim>2, Nprp>1, Xibar mass window

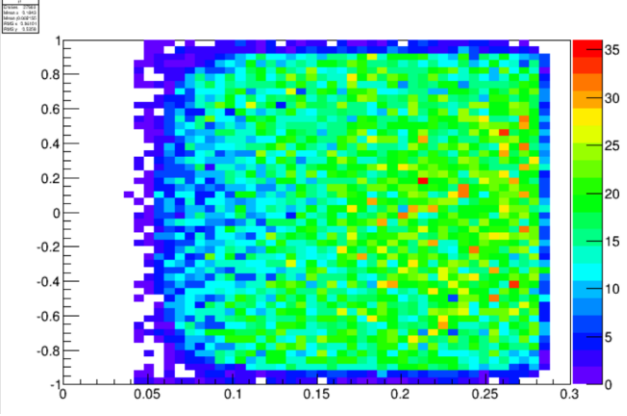


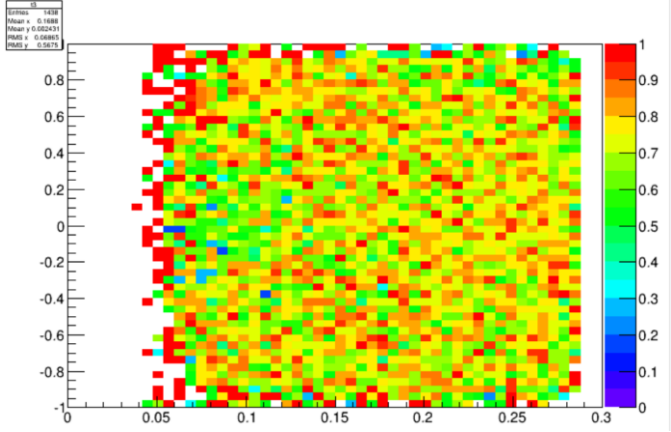


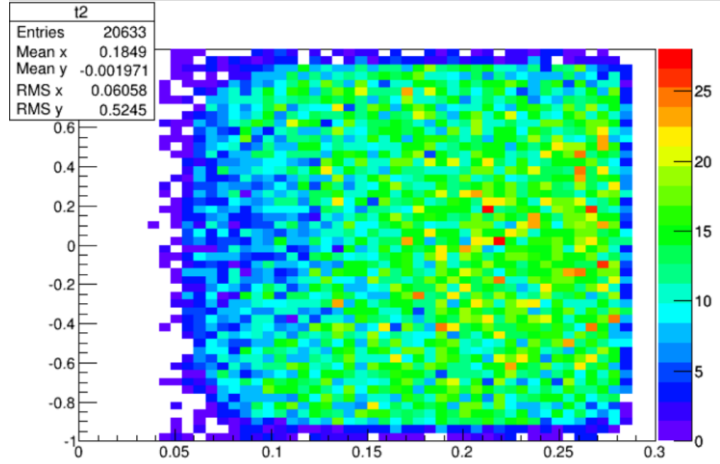


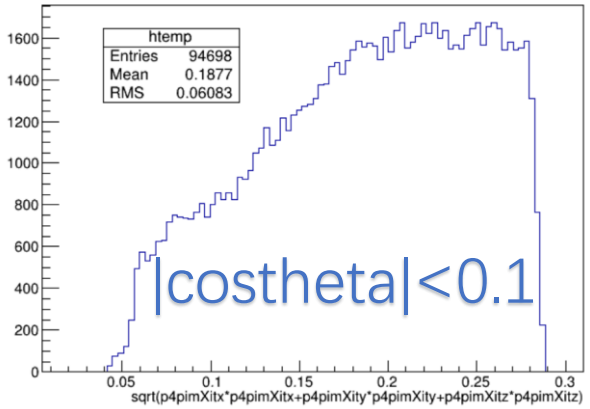
Pure truth

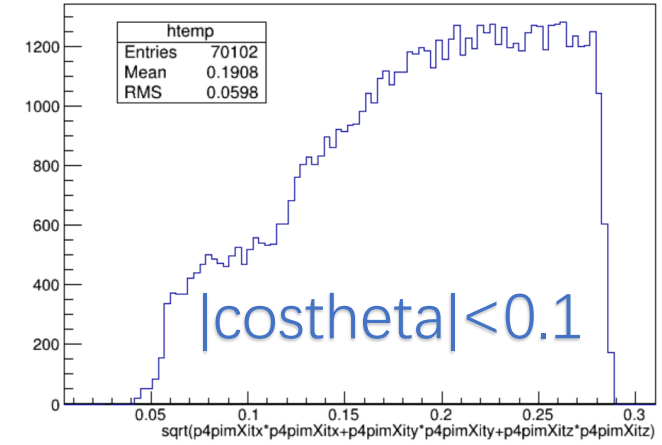

data
t1d
Entries 80000
Mean x 0.1139
Mean y 0.001445
RMS x 0.05551
RMS y 0.5831
1
0.8
0.6
0.4
0.2
0
-0.2
-0.4
-0.6
-0.8
-1
0
0.05
0.1
0.15
0.2
0.25
0.3
30
25
20
15
10
5
0

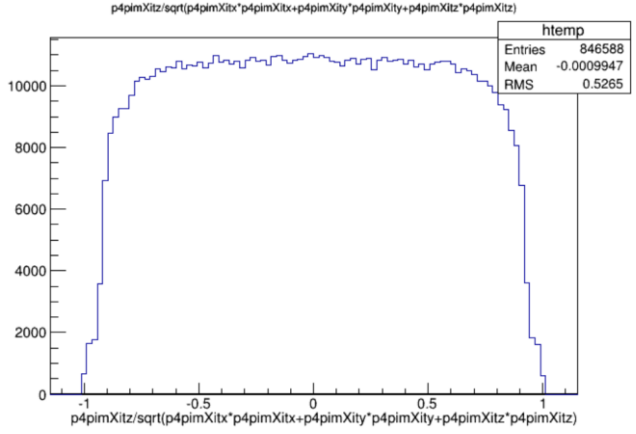


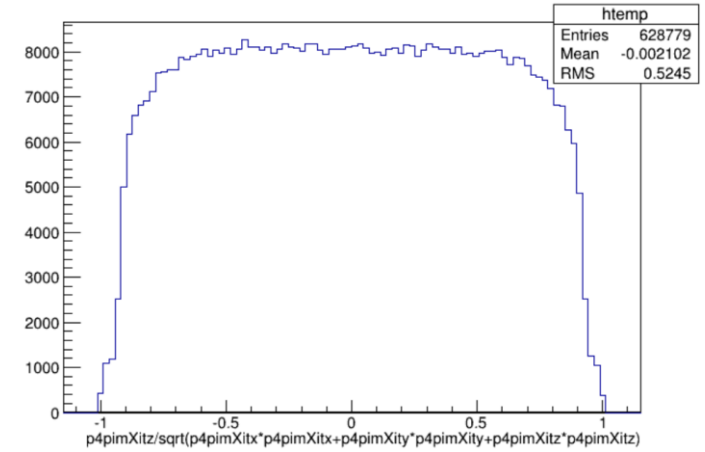



t2
Entries 20633
Mean x 0.1849
Mean y -0.001971
RMS x 0.06058
RMS y 0.5245


htemp
Entries 94698
Mean 0.1877
RMS 0.06083
|costheta|<0.1
sqrt(p4pimXitx*p4pimXitx+p4pimXity*p4pimXity+p4pimXitz*p4pimXitz)

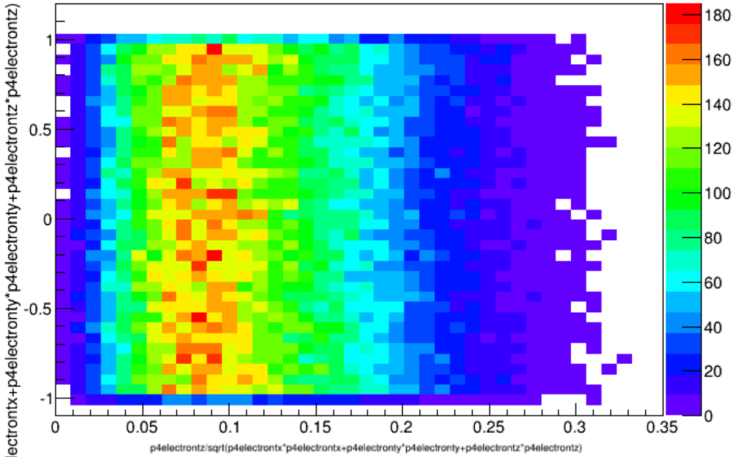

htemp
Entries 70102
Mean 0.1908
RMS 0.0598
|costheta|<0.1
sqrt(p4pimXitx*p4pimXitx+p4pimXity*p4pimXity+p4pimXitz*p4pimXitz)

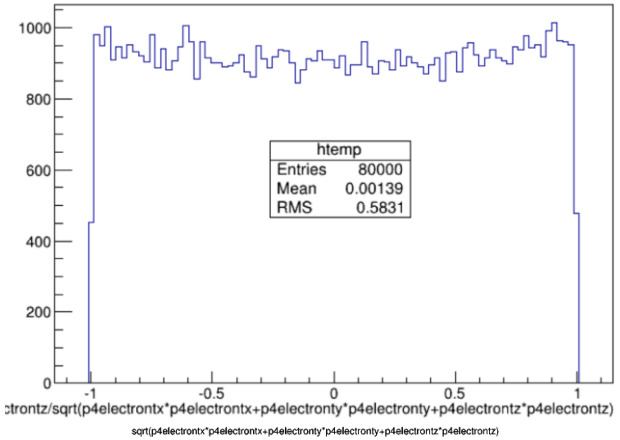

p4pimXitz/sqrt(p4pimXitx*p4pimXitx+p4pimXity*p4pimXity+p4pimXitz*p4pimXitz)
htemp
Entries 846588
Mean -0.0009947
RMS 0.5265
p4pimXitz/sqrt(p4pimXitx*p4pimXitx+p4pimXity*p4pimXity+p4pimXitz*p4pimXitz)

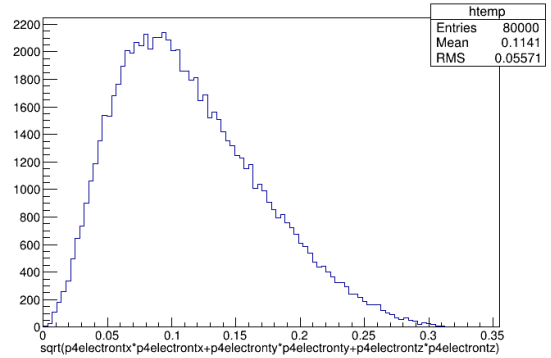

htemp
Entries 628779
Mean -0.002102
RMS 0.5245
p4pimXitz/sqrt(p4pimXitx*p4pimXitx+p4pimXity*p4pimXity+p4pimXitz*p4pimXitz)

formal

$\Xi^- \rightarrow \Lambda\, e^-\, \bar{\nu}_e$

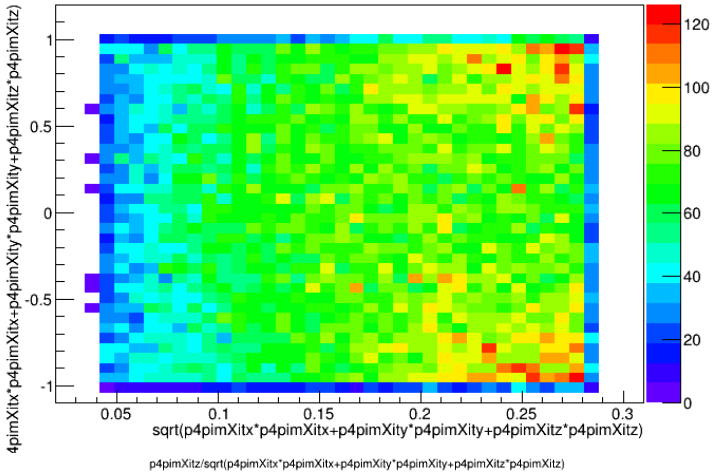


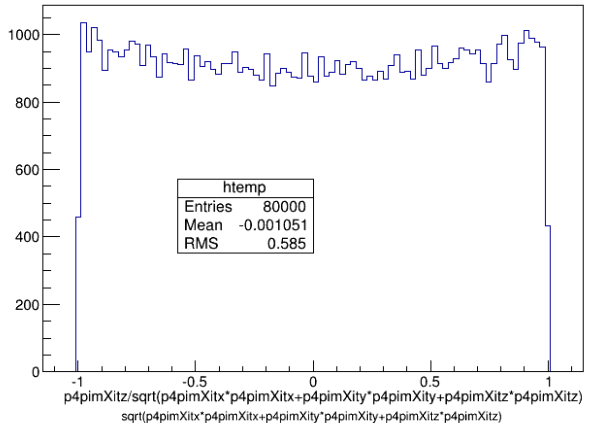


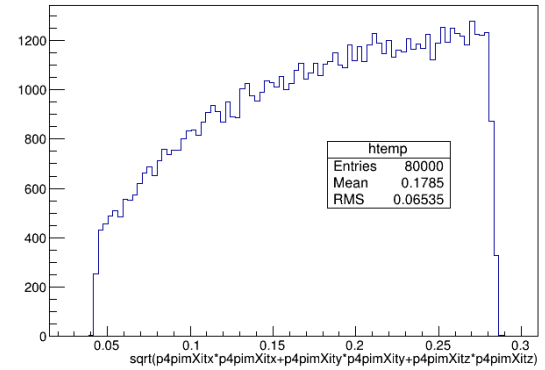


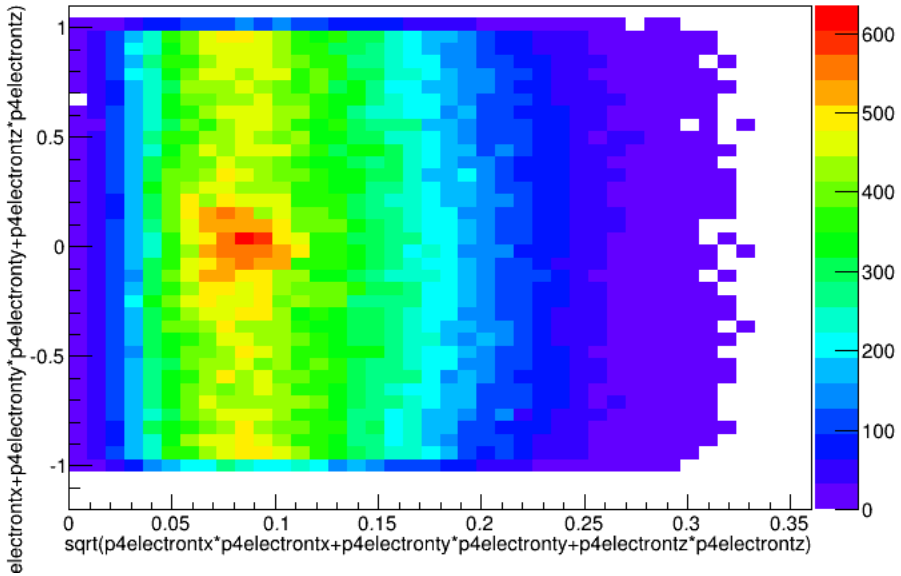
Pure truth

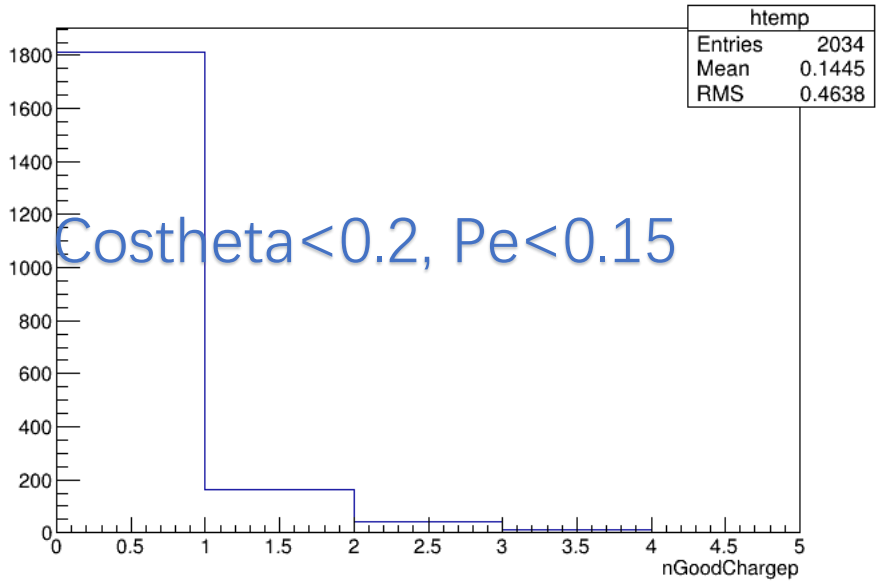
$\Xi^- \rightarrow \Lambda\, \pi^-$



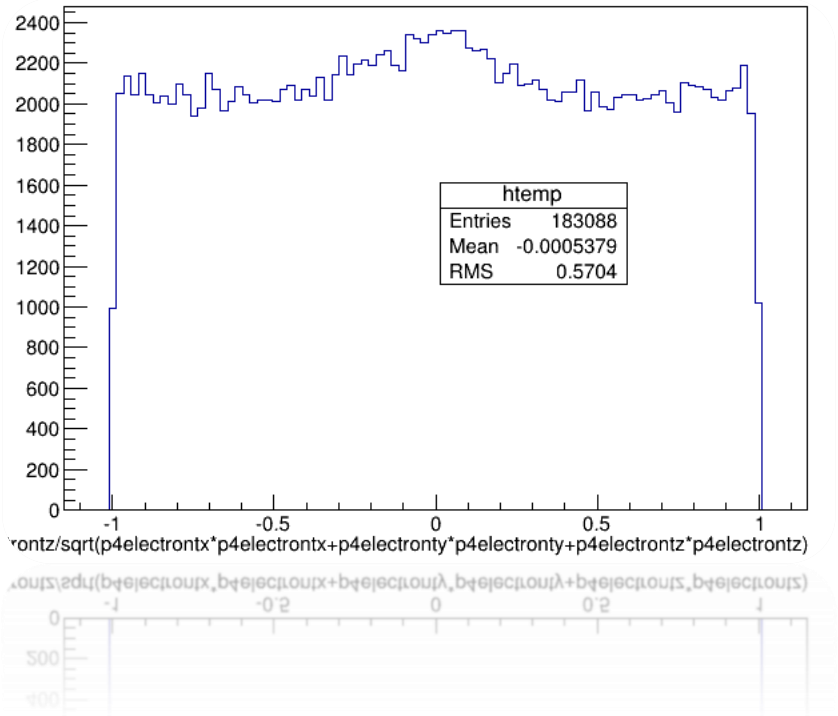


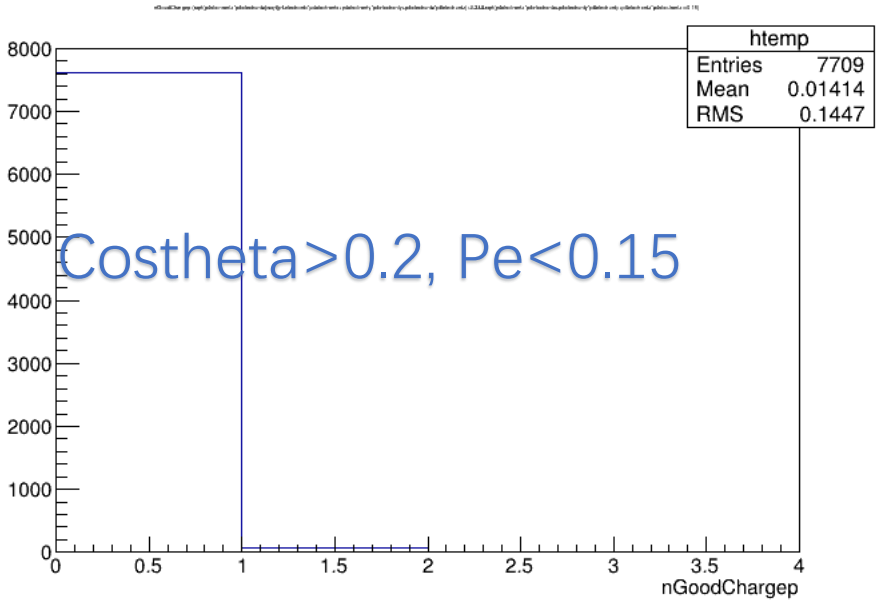






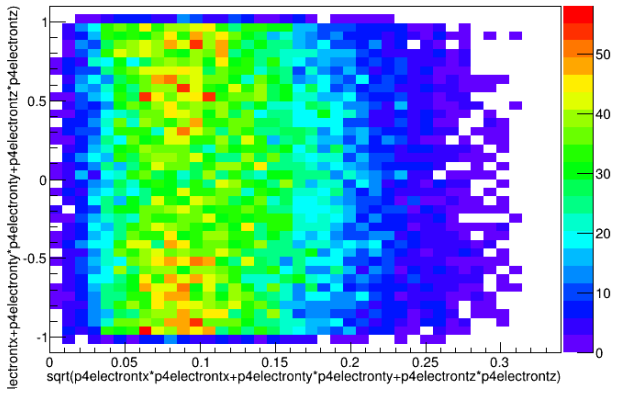
Costheta<0.2, Pe<0.15

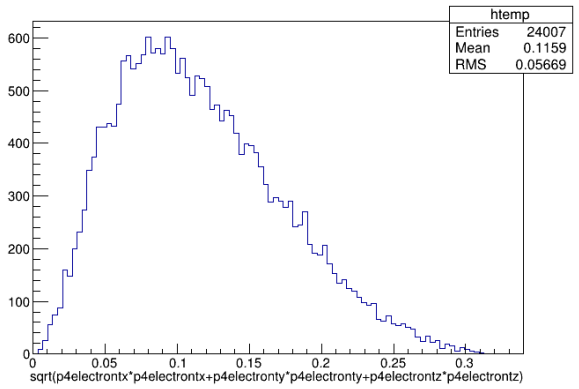




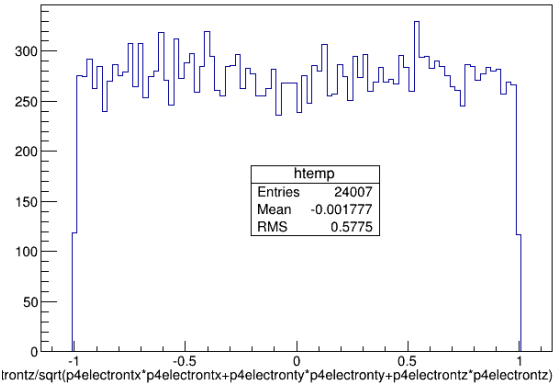
Costheta>0.2, Pe<0.15

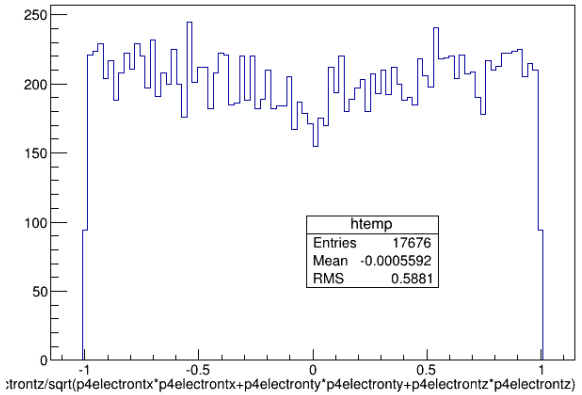
$\Xi^- \to \Lambda\, e^-\, \bar{\nu}_e$





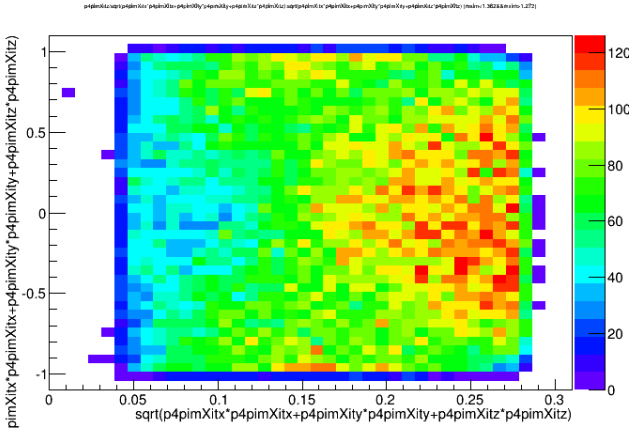
P<0.15

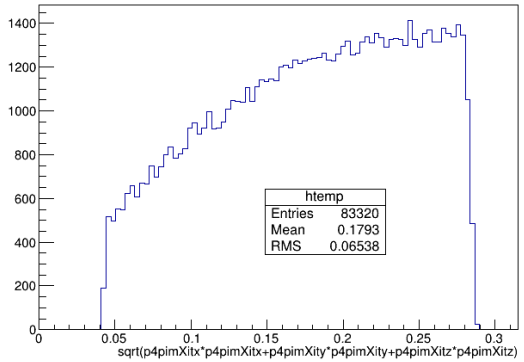


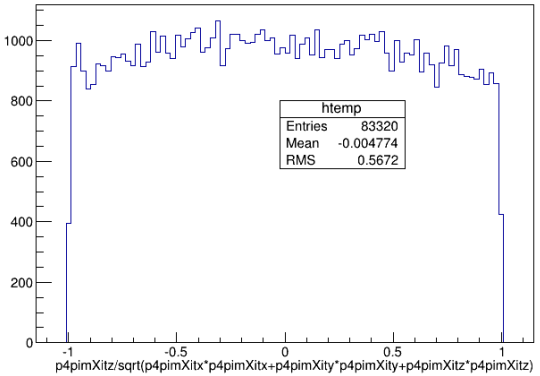


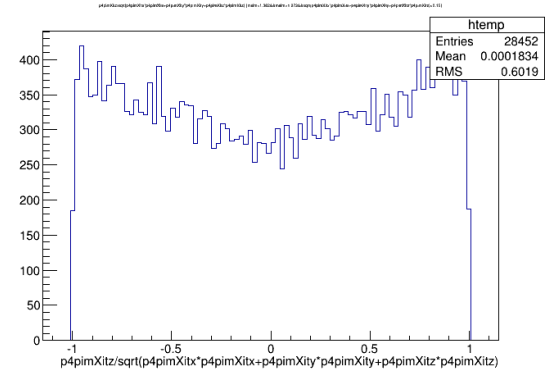
Single tag analysis

$\Xi^- \to \Lambda\, \pi^-$

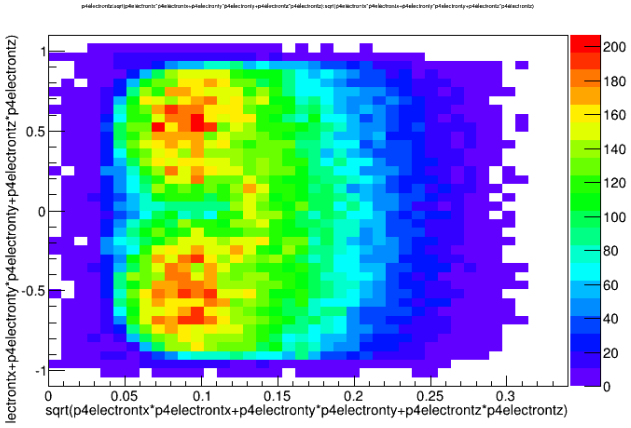




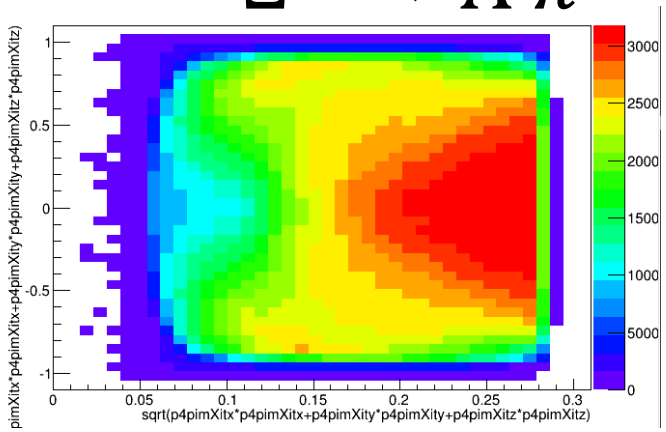


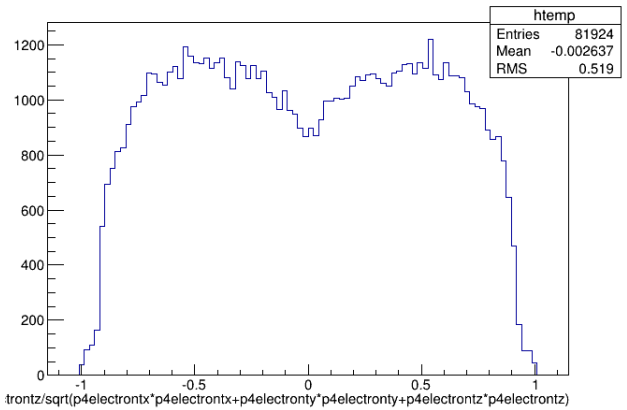


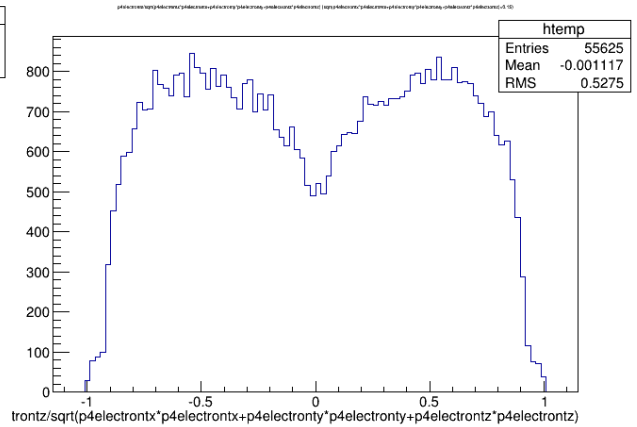
$\Xi^- \rightarrow \Lambda\, e^-\, \bar{\nu}_e$

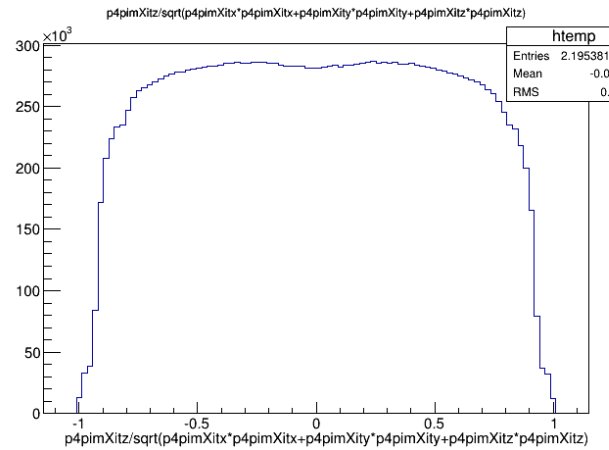


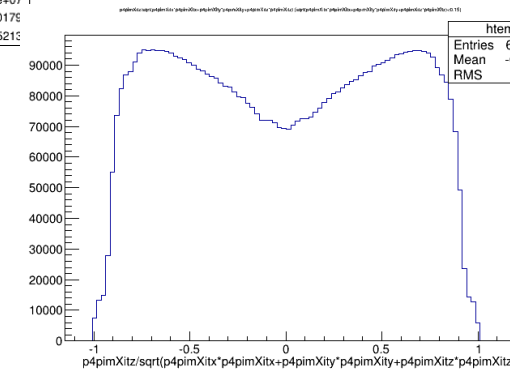
Pim>1, proton>0

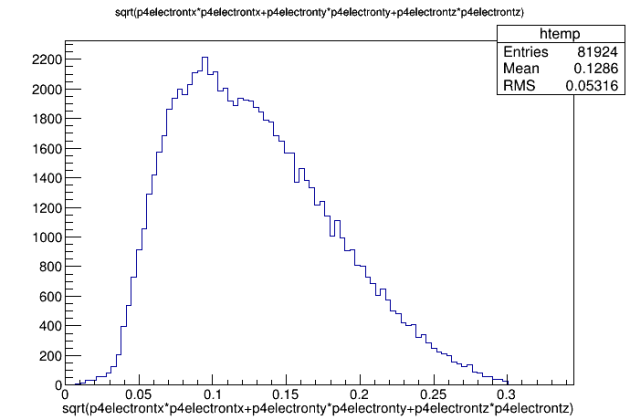


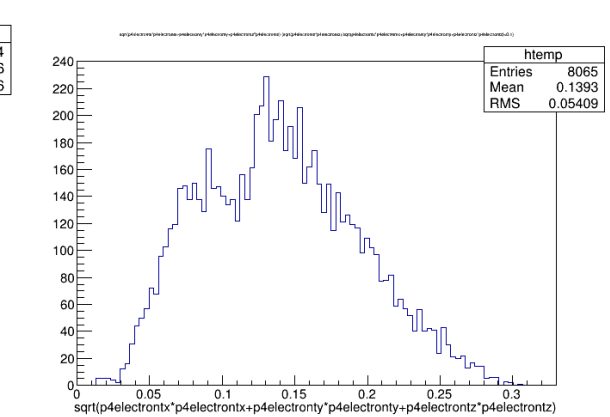


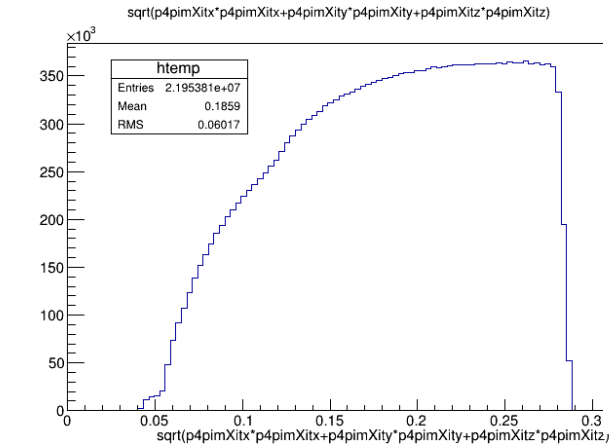


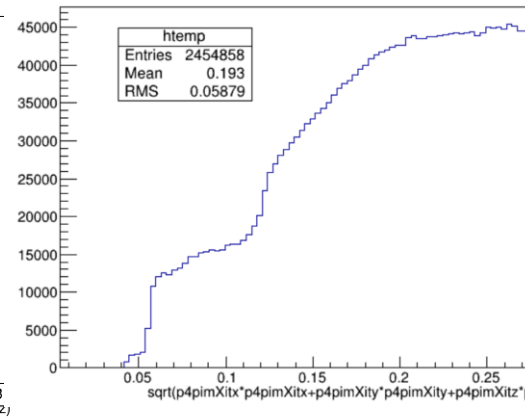


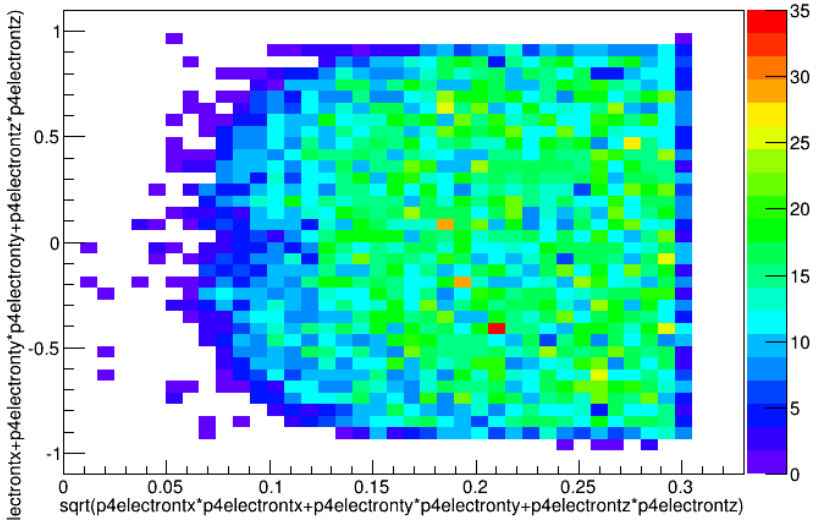












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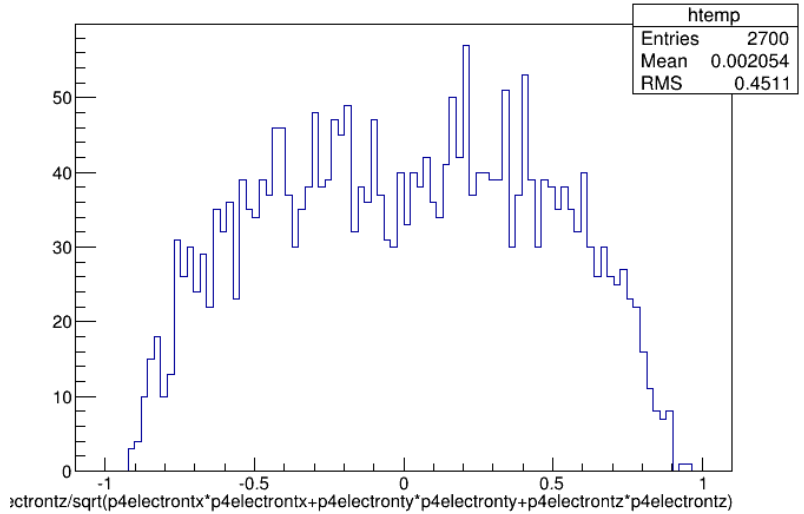

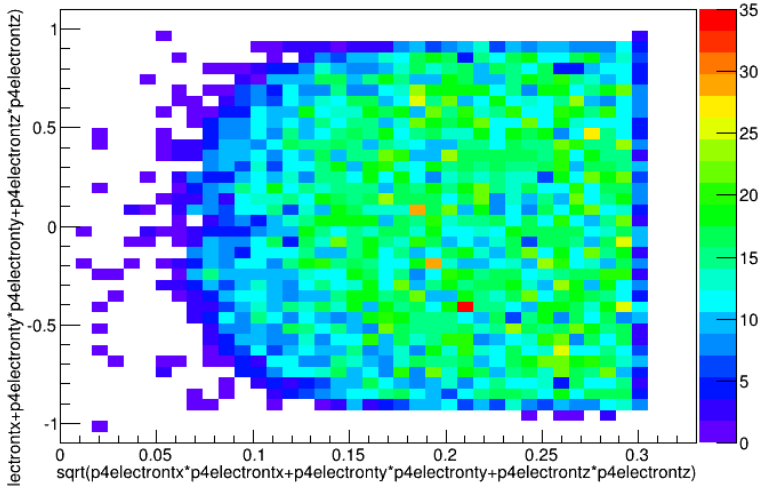
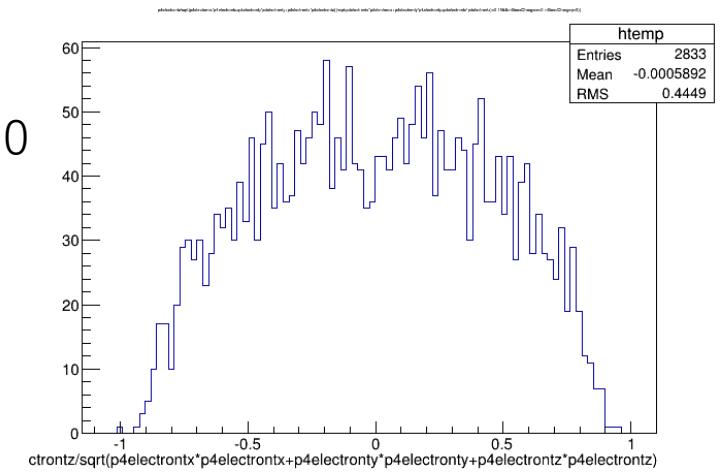
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