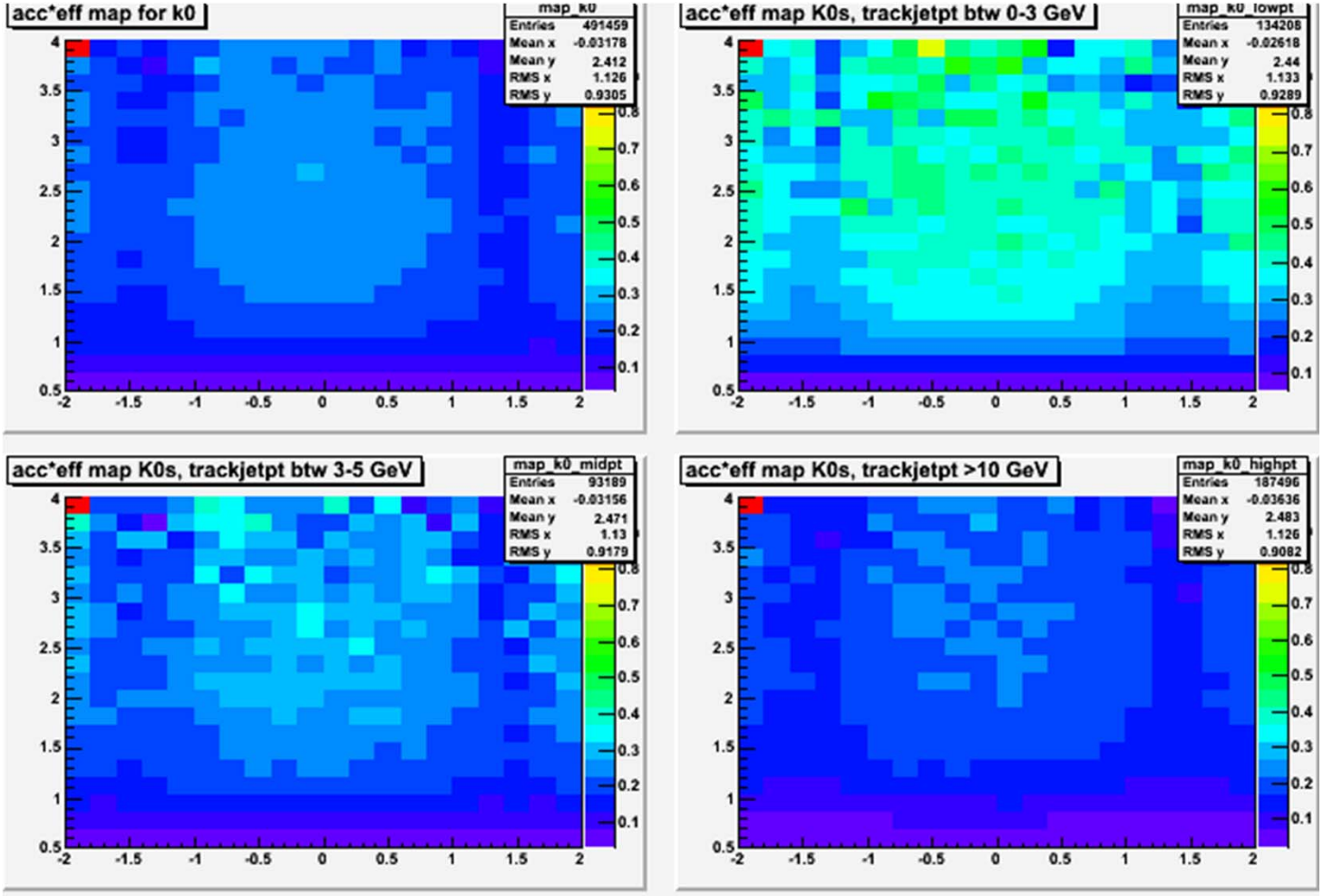
K0s

Acc*eff K0s vs trackjet Pt

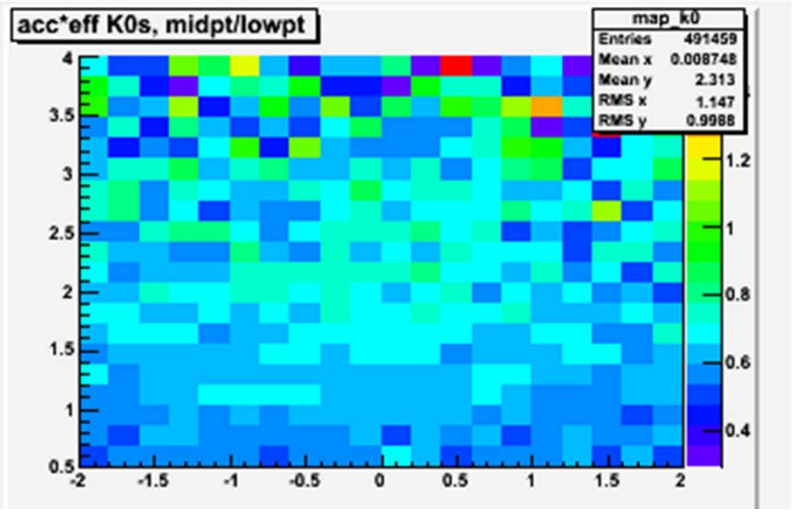
Only those V0s considered which are in the transverse region



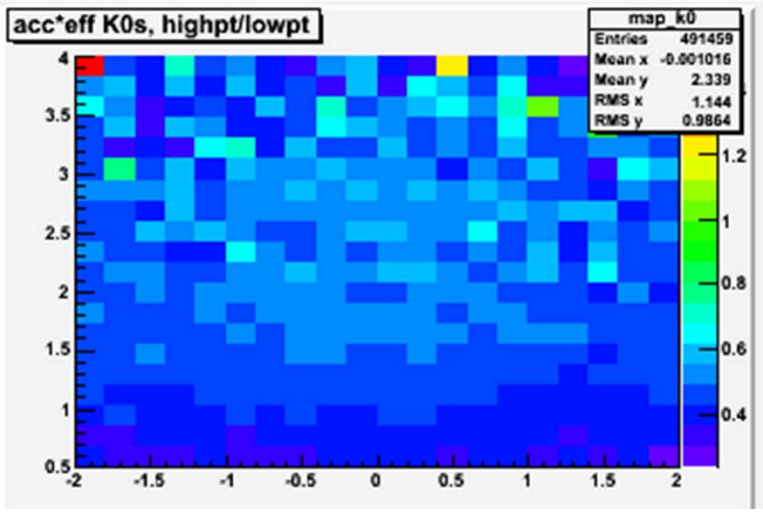
- Clear dependence on trackjet pt

Acc*eff K0s ratios

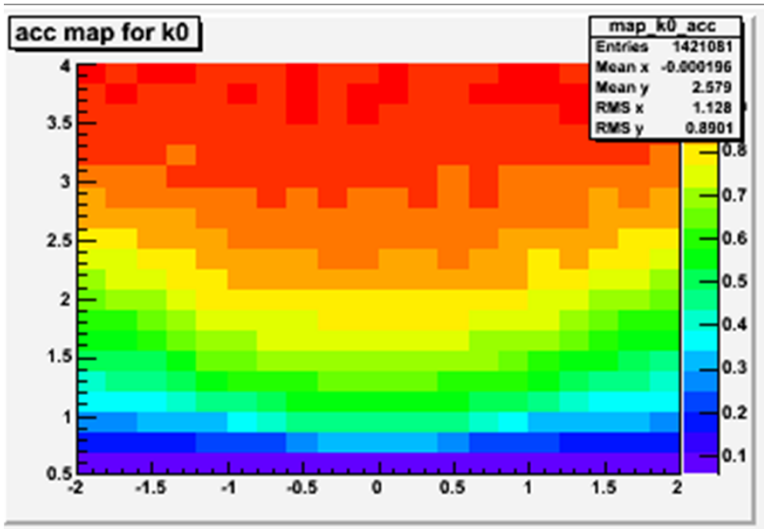
Ratio = ptjet(3,5) / ptjet(0,3)

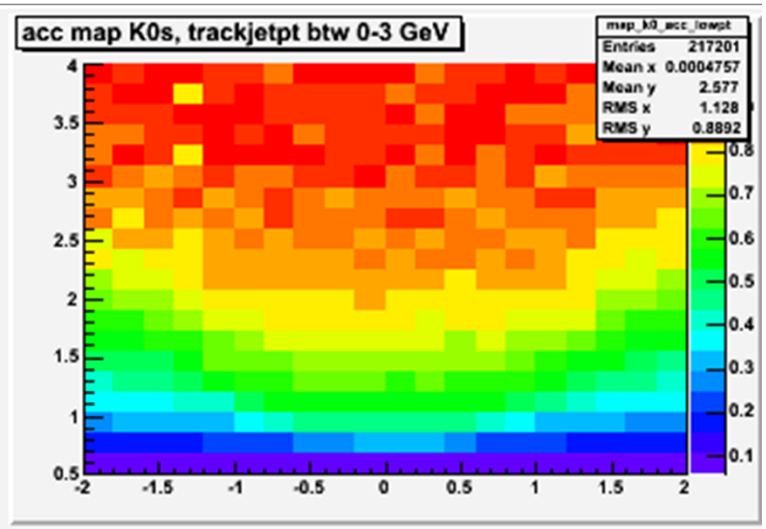


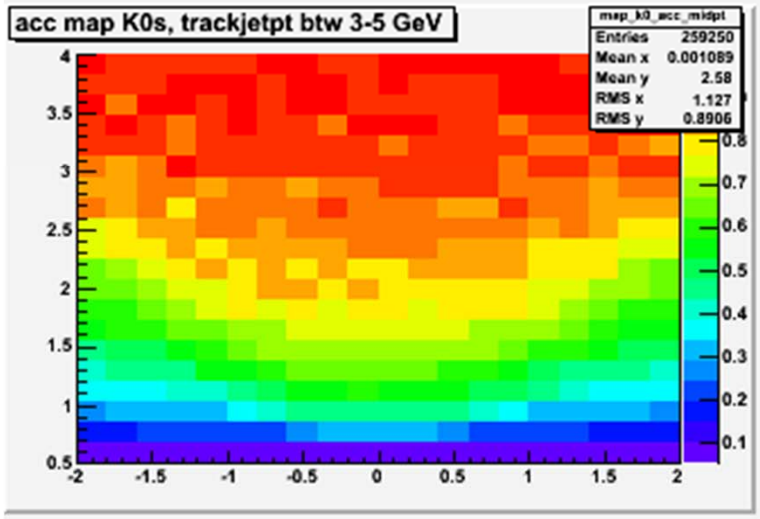
Ratio = ptjet(>5) / ptjet(0,3)

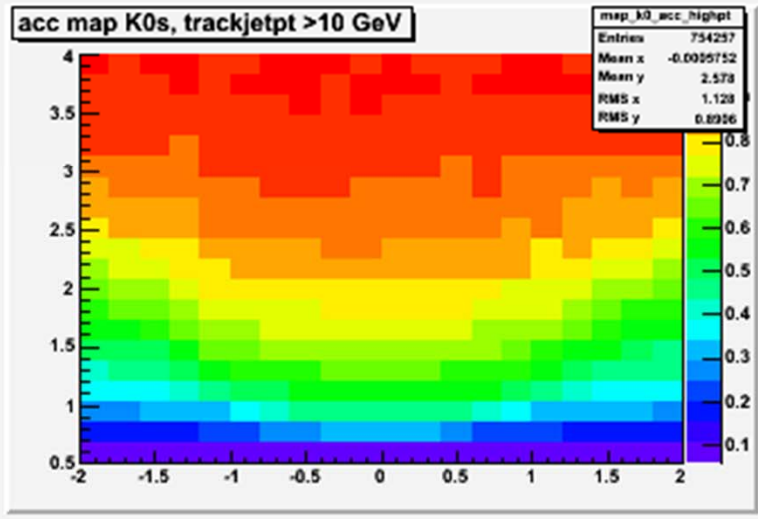


Acc K0s

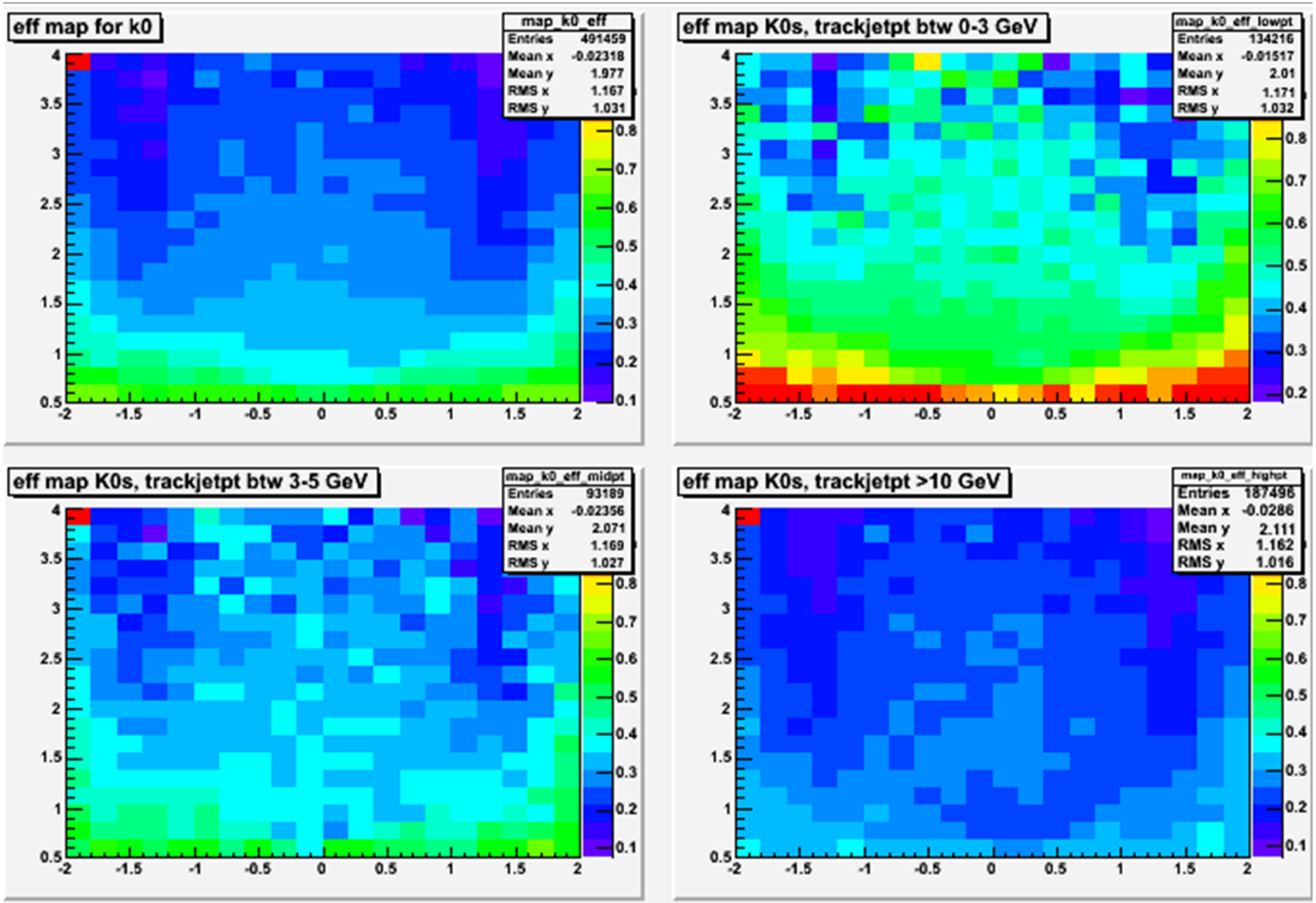

acc map for k0
map_k0_acc
Entries 1421081
Mean x -0.000196
Mean y 2.579
RMS x 1.128
RMS y 0.8901


acc map K0s, trackjetpt btw 0-3 GeV
map_k0_acc_lowpt
Entries 217201
Mean x 0.0004757
Mean y 2.577
RMS x 1.128
RMS y 0.8892


acc map K0s, trackjetpt btw 3-5 GeV
map_k0_acc_midpt
Entries 259250
Mean x 0.001089
Mean y 2.58
RMS x 1.127
RMS y 0.8906

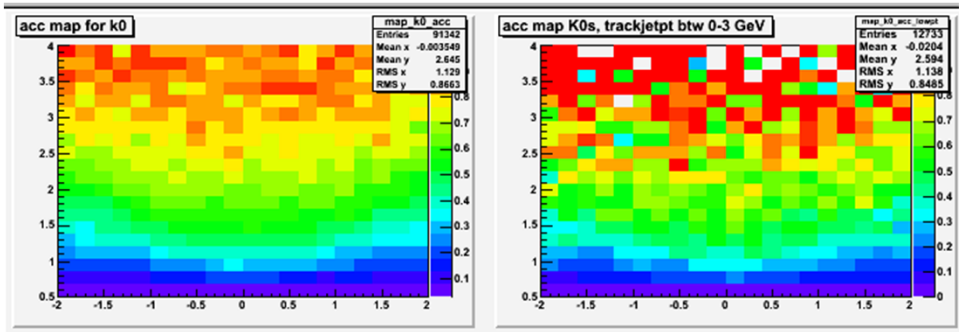

acc map K0s, trackjetpt >10 GeV
map_k0_acc_highpt
Entries 754257
Mean x -0.0005752
Mean y 2.578
RMS x 1.128
RMS y 0.8906

Eff K0s

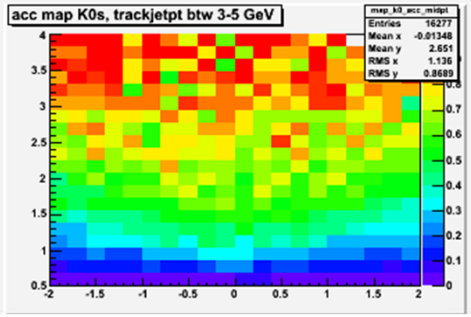

eff map for k0
map_k0_eff
Entries 491459
Mean x -0.02318
Mean y 1.977
RMS x 1.167
RMS y 1.031
eff map K0s, trackjetpt btw 0-3 GeV
map_k0_eff_lowpt
Entries 134216
Mean x -0.01517
Mean y 2.01
RMS x 1.171
RMS y 1.032
eff map K0s, trackjetpt btw 3-5 GeV
map_k0_eff_midpt
Entries 93189
Mean x -0.02356
Mean y 2.071
RMS x 1.169
RMS y 1.027
eff map K0s, trackjetpt >10 GeV
map_k0_eff_highpt
Entries 187496
Mean x -0.0286
Mean y 2.111
RMS x 1.162
RMS y 1.016

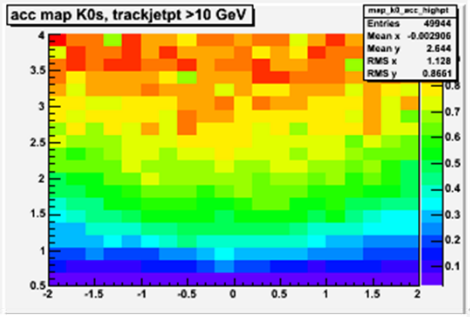
Acc and Eff K0s - test

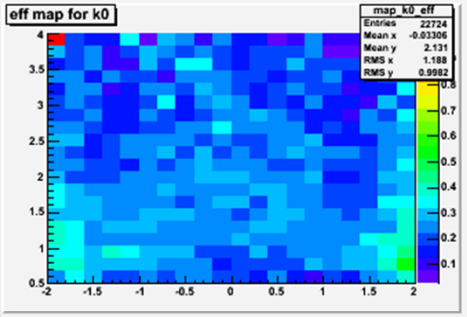
Condition: **mass fit**, chi2prob > 0.05, transverse distance > 3cm

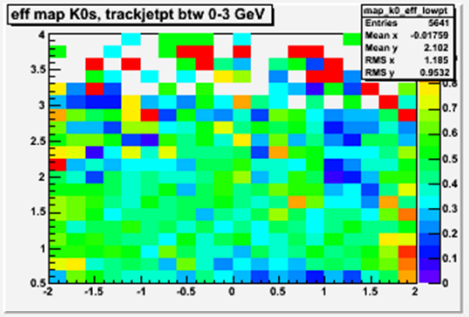


<- acceptance maps

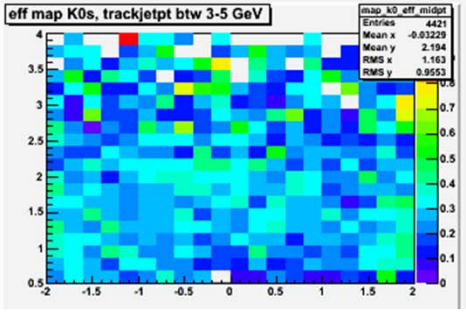


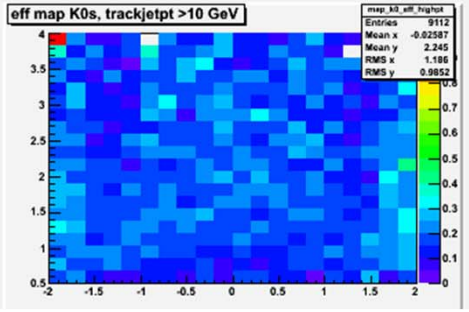






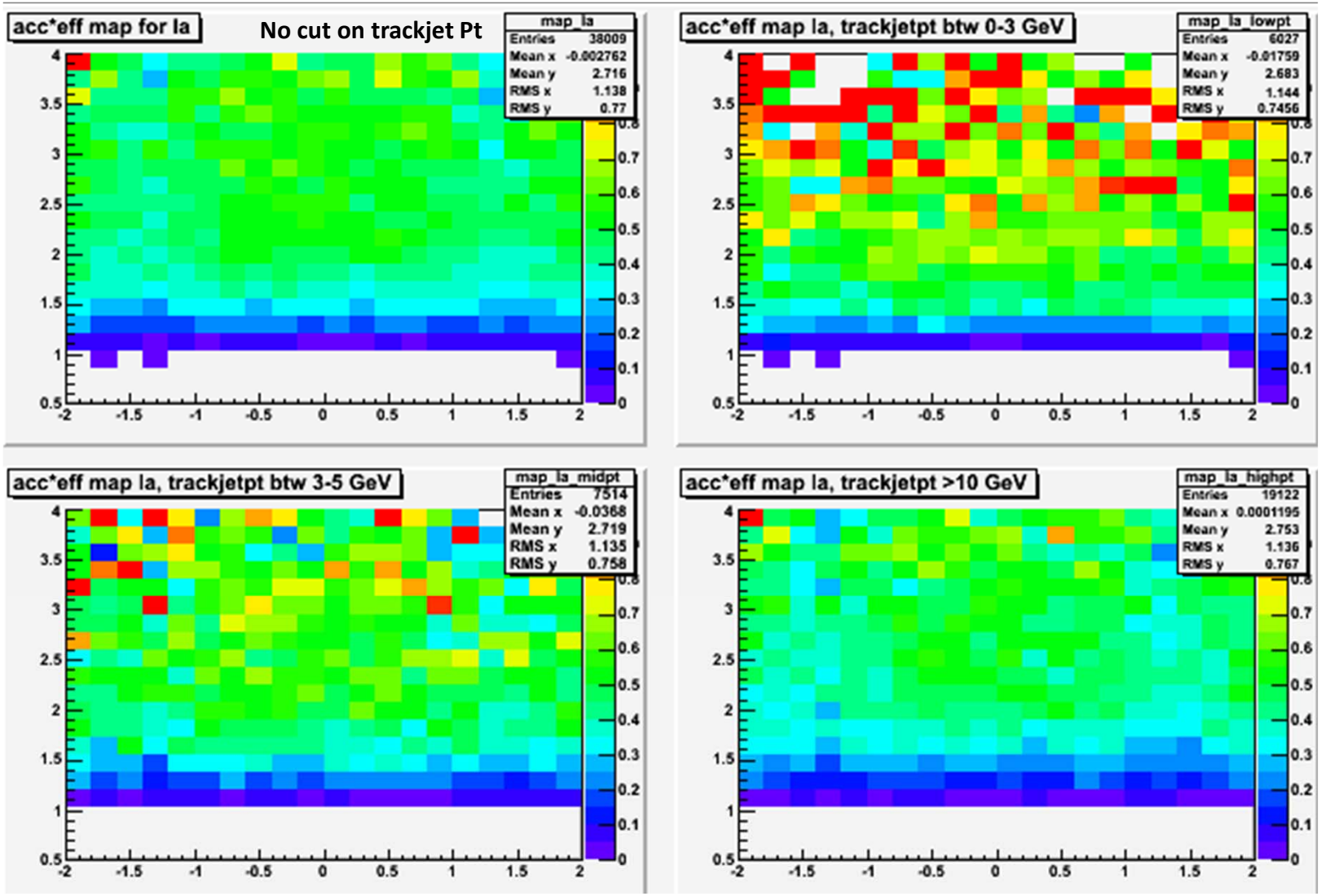
Efficiency maps ->





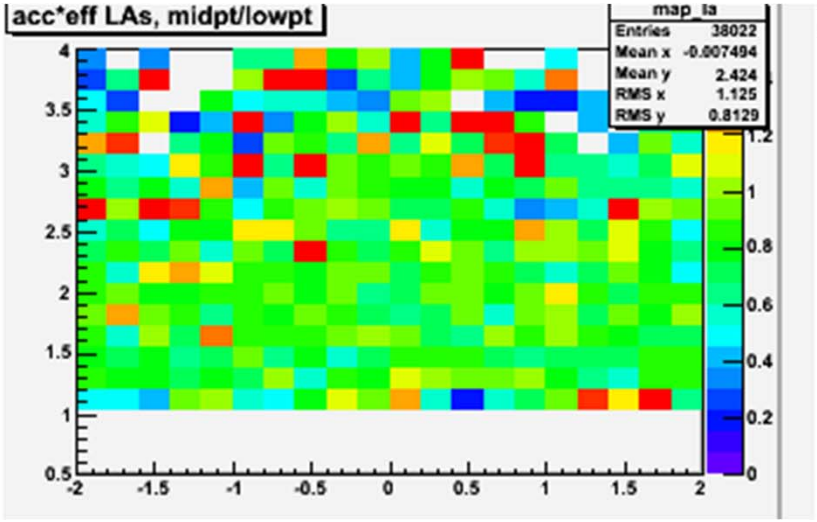
Lambdas

Acc*eff Lambda vs trackjet Pt

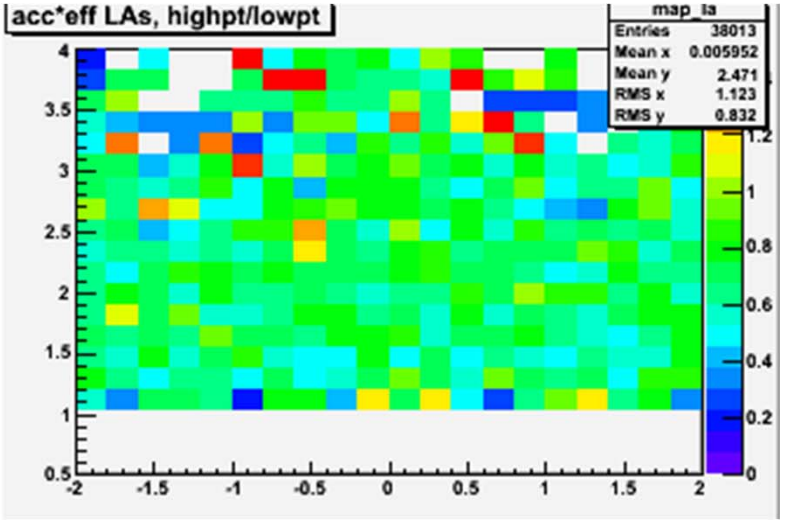


Acc*eff Lambda ratios

Ratio = ptjet(3,5) / ptjet(0,3)



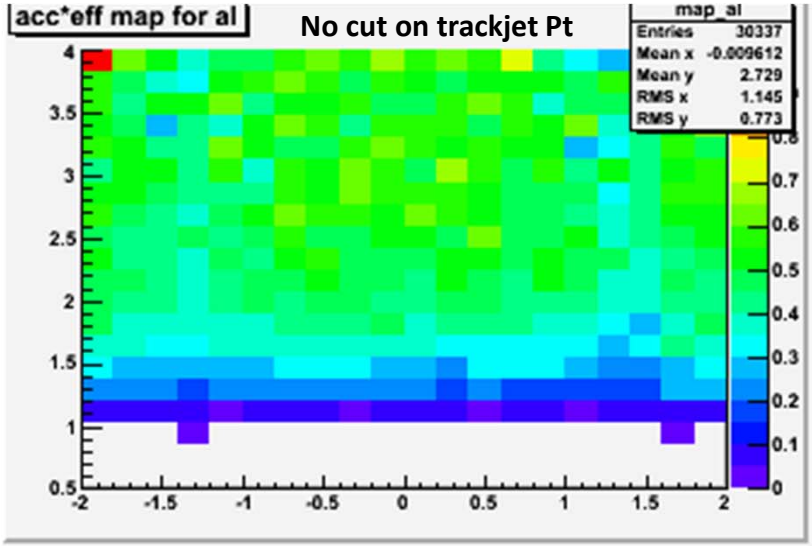
Ratio = ptjet(>5) / ptjet(0,3)

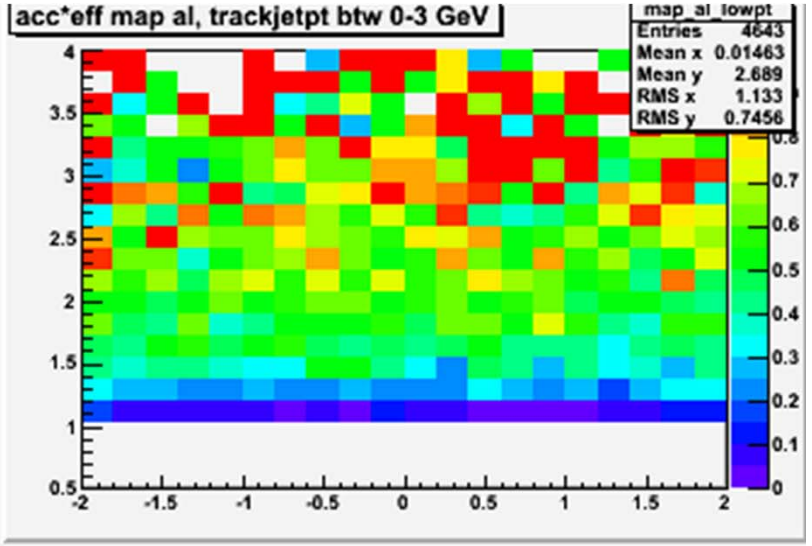


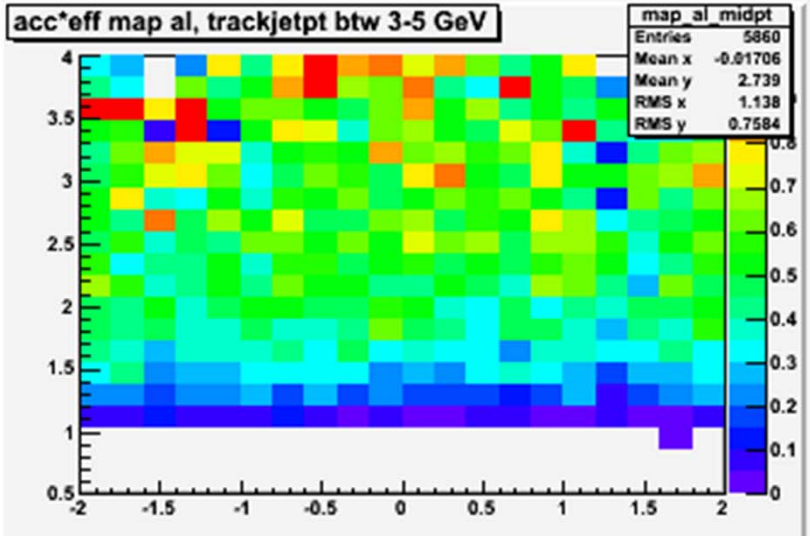
Probably a weak dependence, but very low stats even with full MC sample

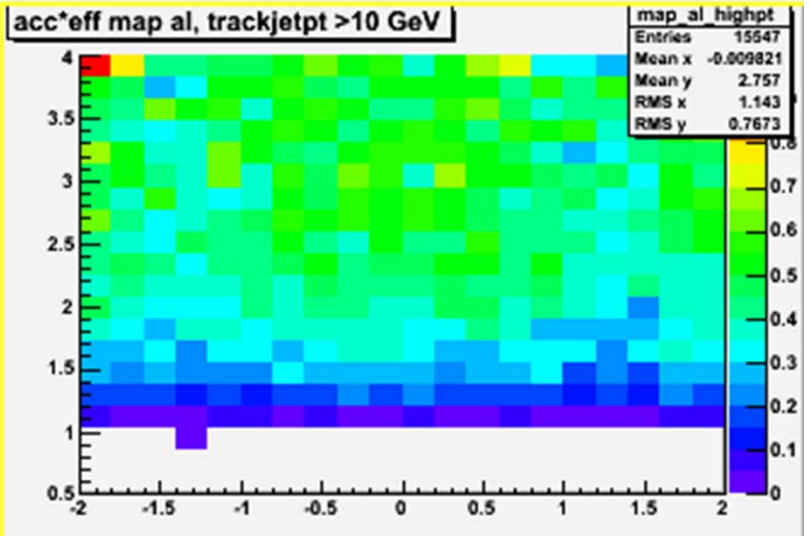
Antilambdas

Acc*eff Antilambda vs trackjet Pt





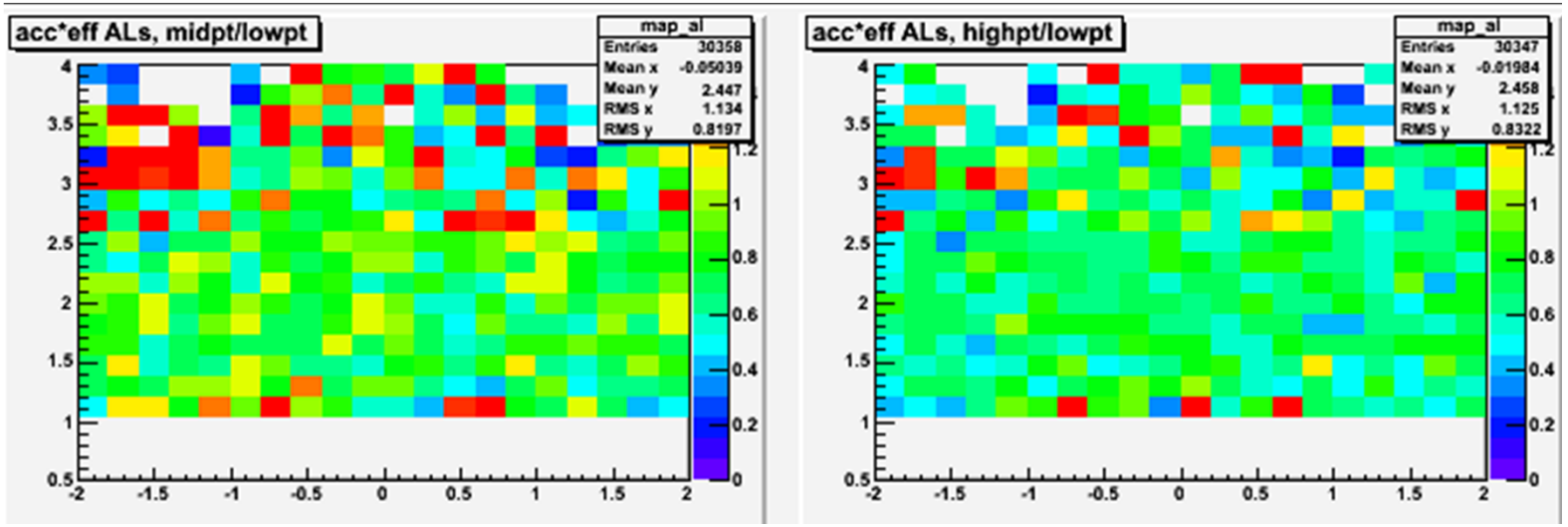




Acc*eff Antilambda ratios

Ratio = ptjet(3,5) / ptjet(0,3)

Ratio = ptjet(>5) / ptjet(0,3)



Again, too low stats to judge

Short Summary

- Significant trackjet pt dependence of efficiency for K0s

- None or small dependence of acc*eff for anti/lambdas, but too low stat to make a firm statement