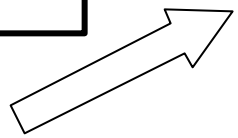
select a clean sample of COT tracks going through the four SVX layers and count how many are seen by SVT.

cuts

```
d_cot>-.6.and.d_cot<-.1
abs(ctg_cot)<1.
z0_cot>2.and.z0_cot<10.
phi_cot>2.5.and.phi_cot<3.4
abs(c_cot)<.001124
```



COT tracks: **389**

COT-SVT comb: **171**

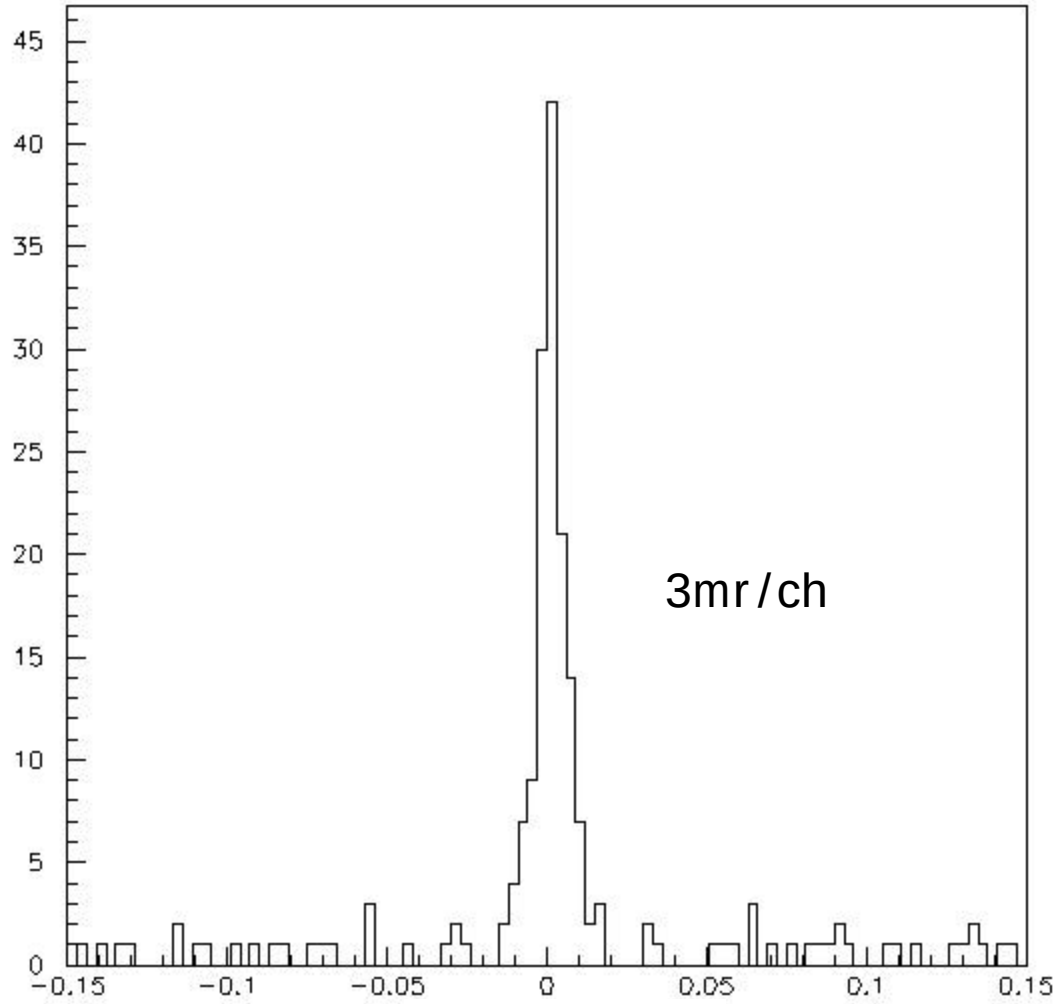
Chi^2 < 40: **100**

Delta-phi < 0.02: **52**

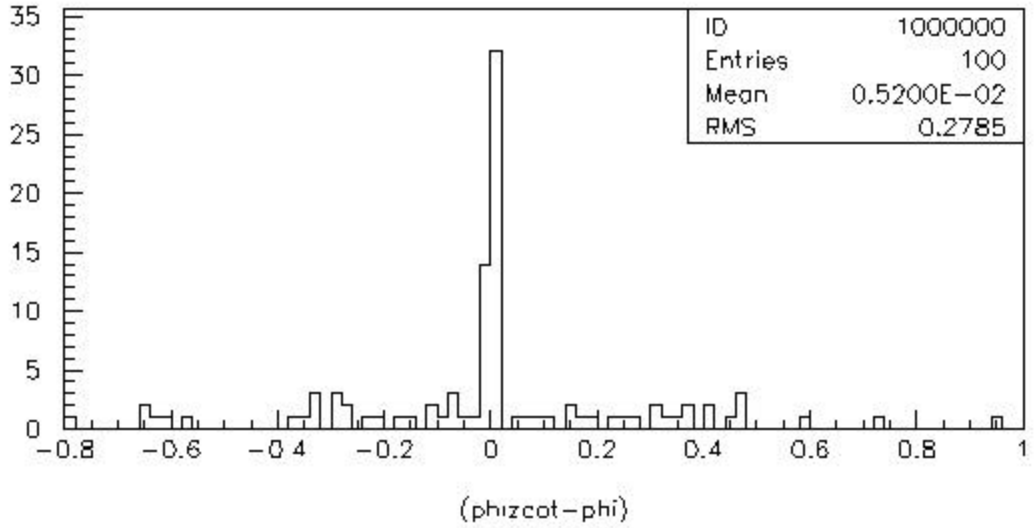
Delta-phi .AND. Chi^2: **46**

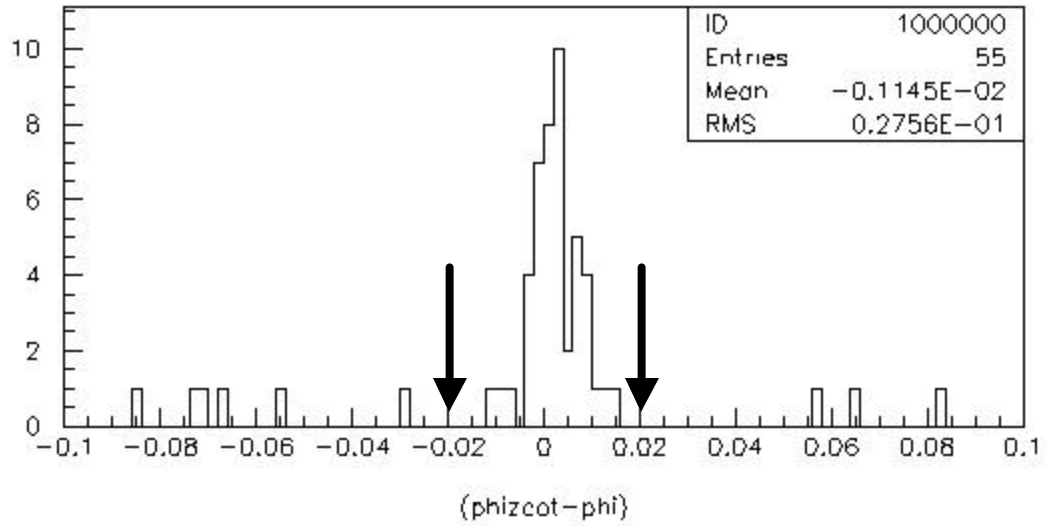
46/389 ~ 12%

COT_phi – SVT_phi

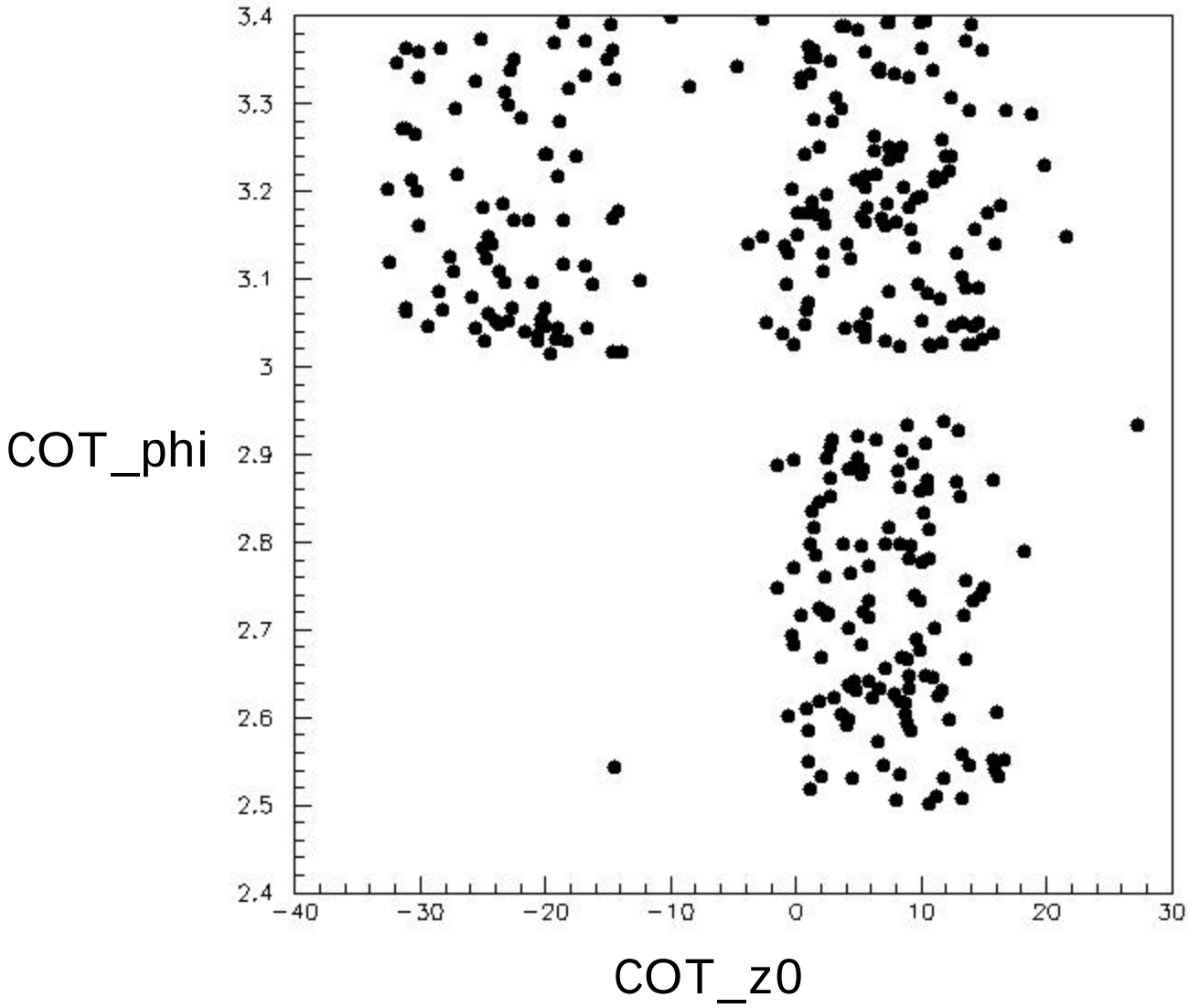


delta-phi cuts





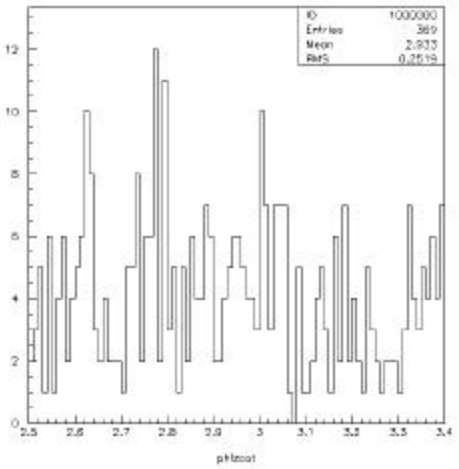
COT-SVT matching tracks

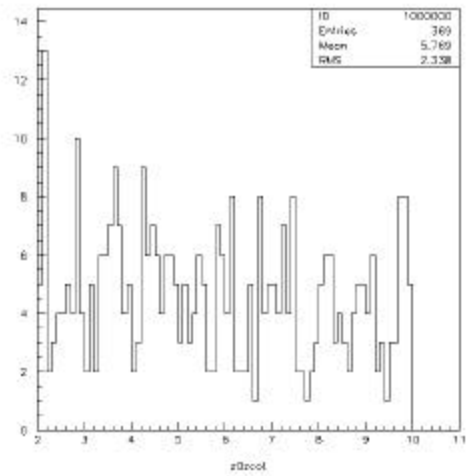


COT_phi

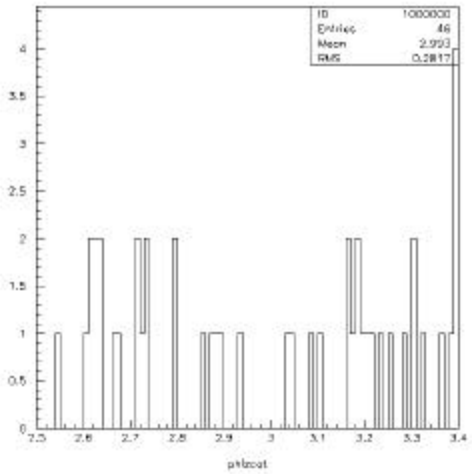
COT_z0

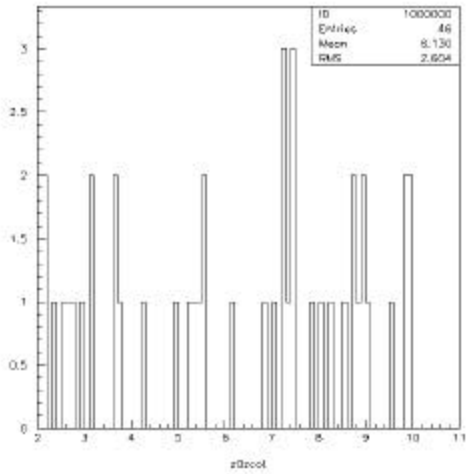
all tracks



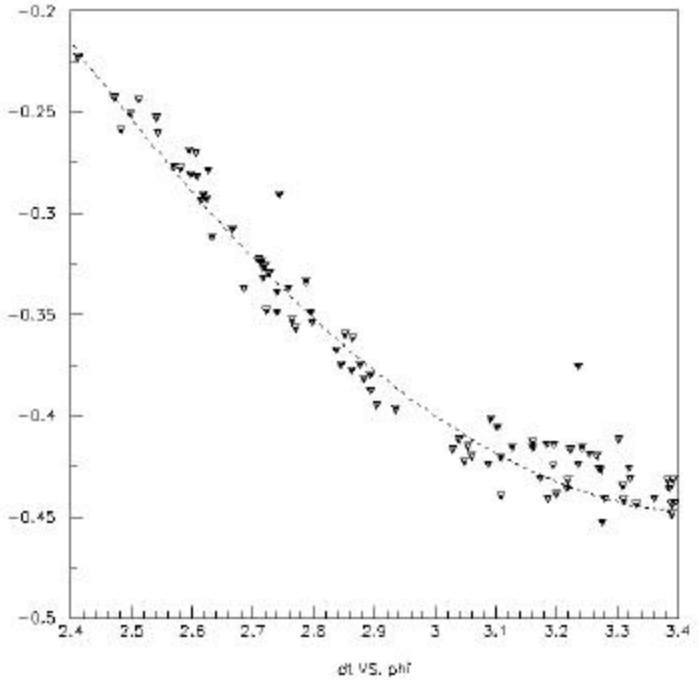


matching tracks

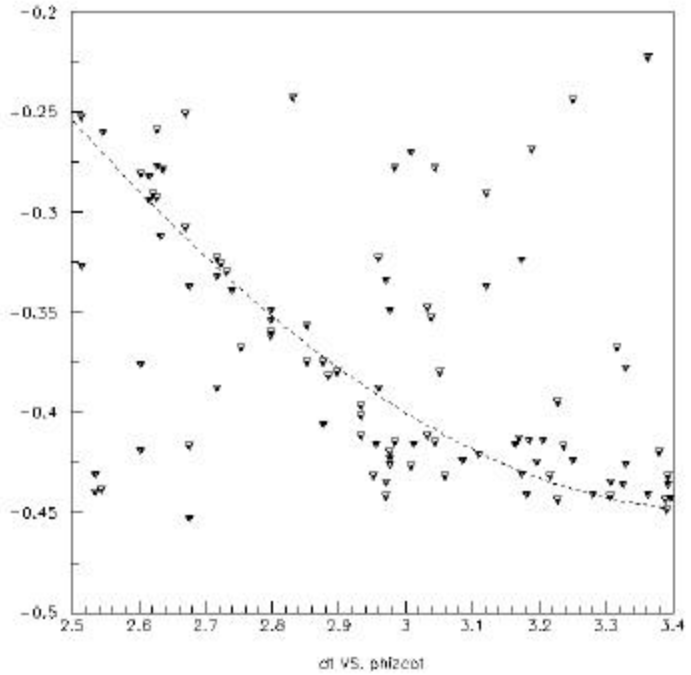


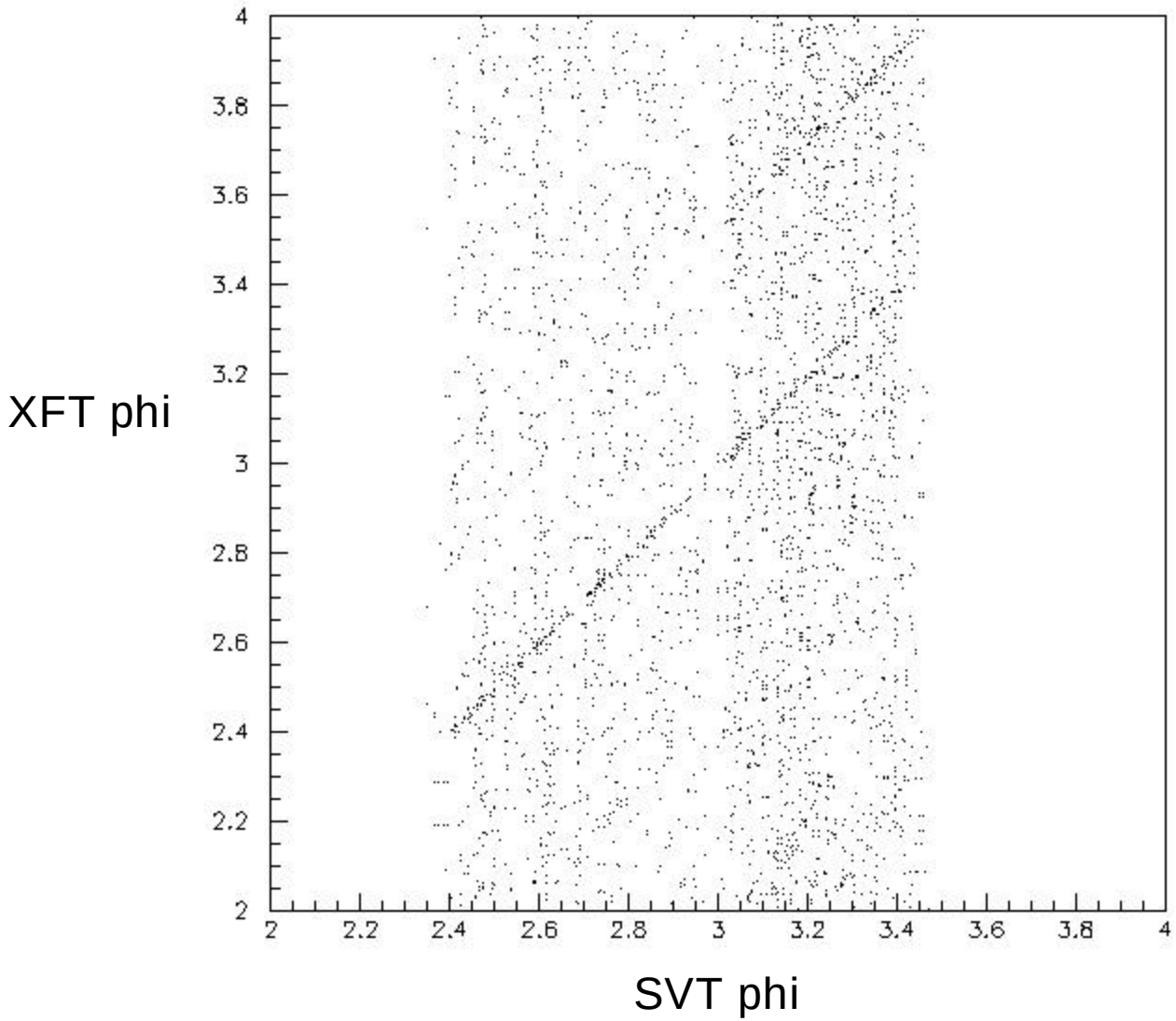


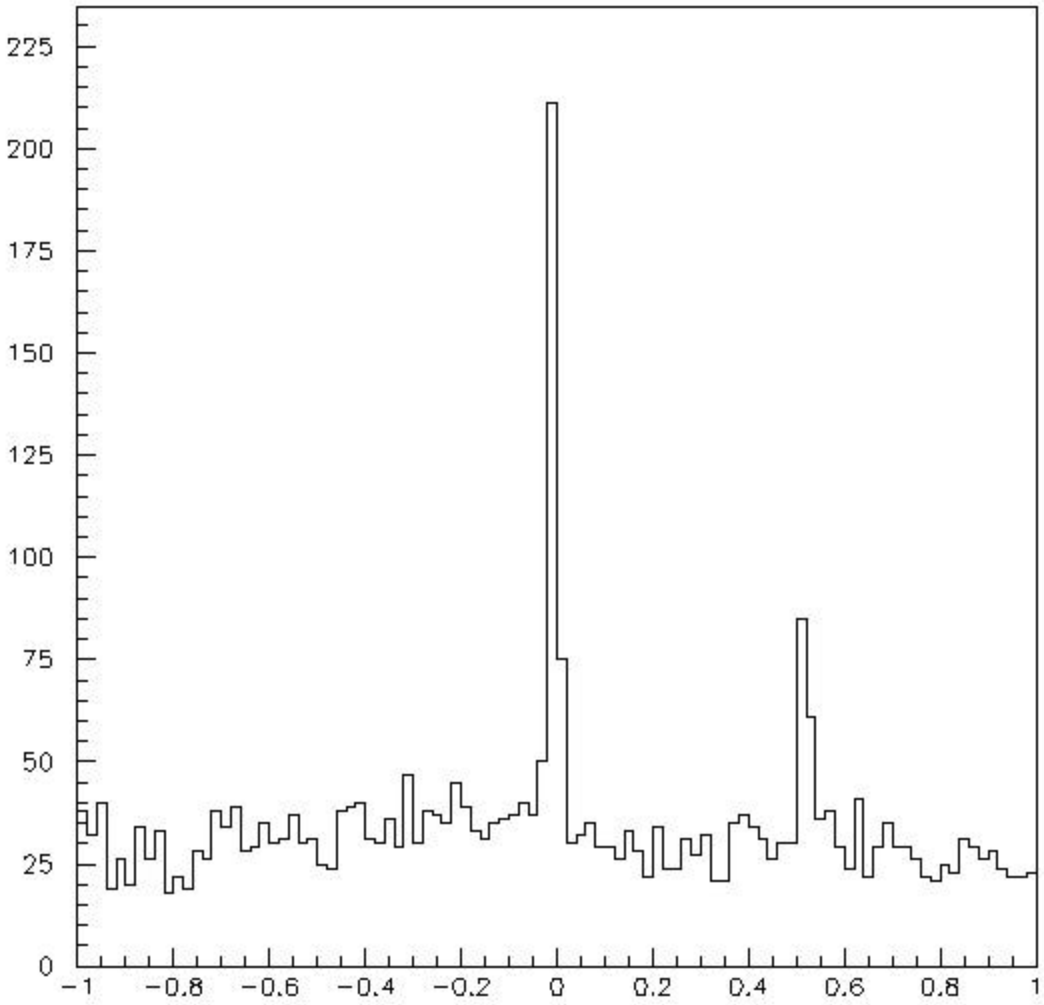
d_SVT- phi_SVT



d_SVT- phi_COT

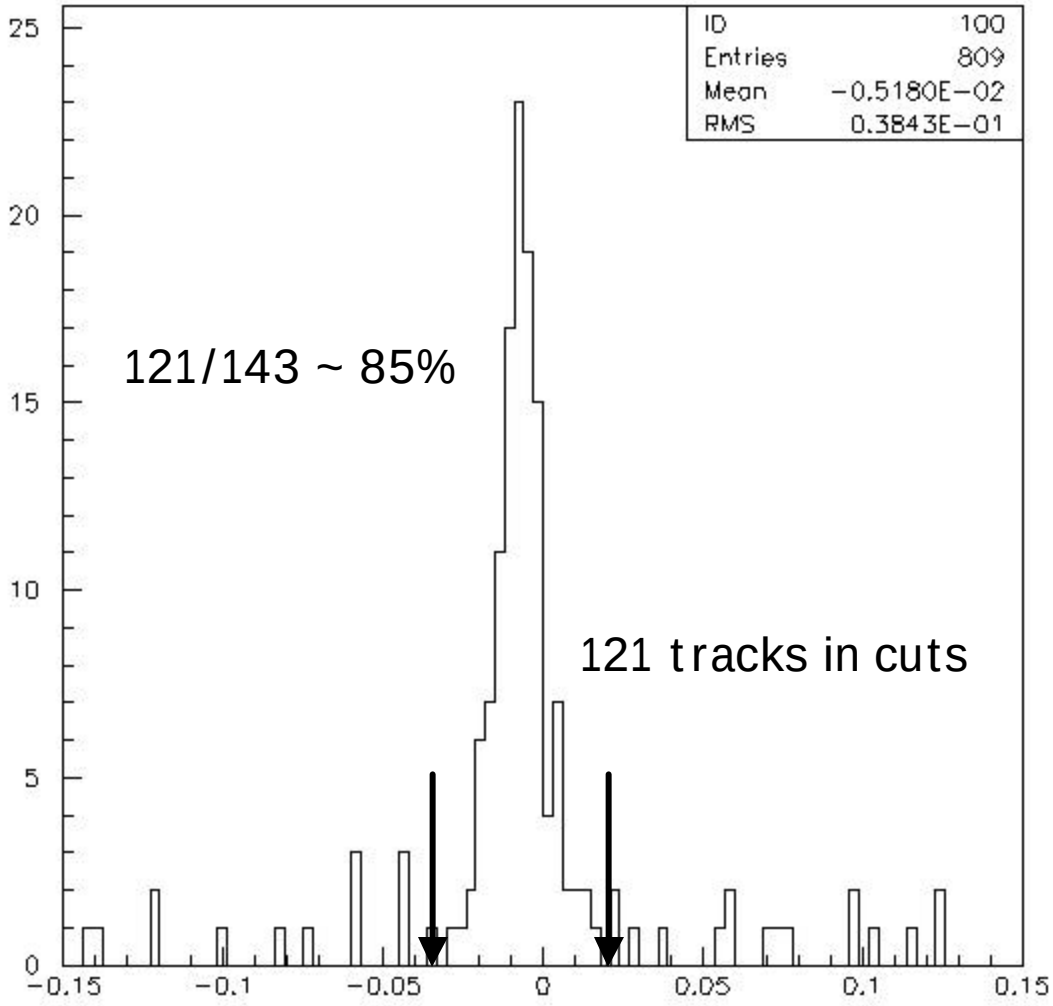



XFT phi
SVT phi
4
3.8
3.6
3.4
3.2
3
2.8
2.6
2.4
2.2
2
2
2.2
2.4
2.6
2.8
3
3.2
3.4
3.6
3.8
4



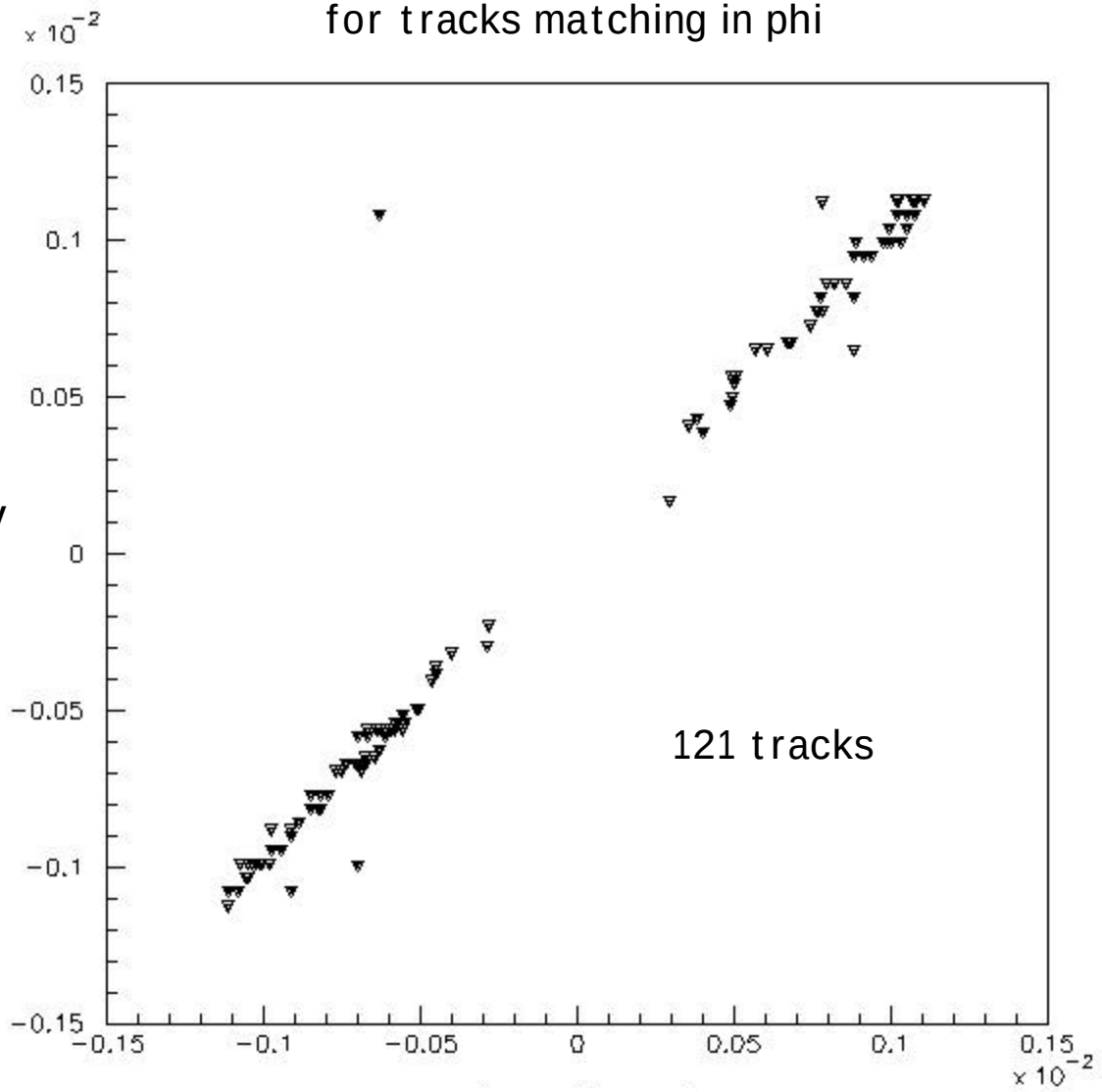
Delta phi

Golden SVT-COT tracks (143)



XTRP_phi – SVT_phi

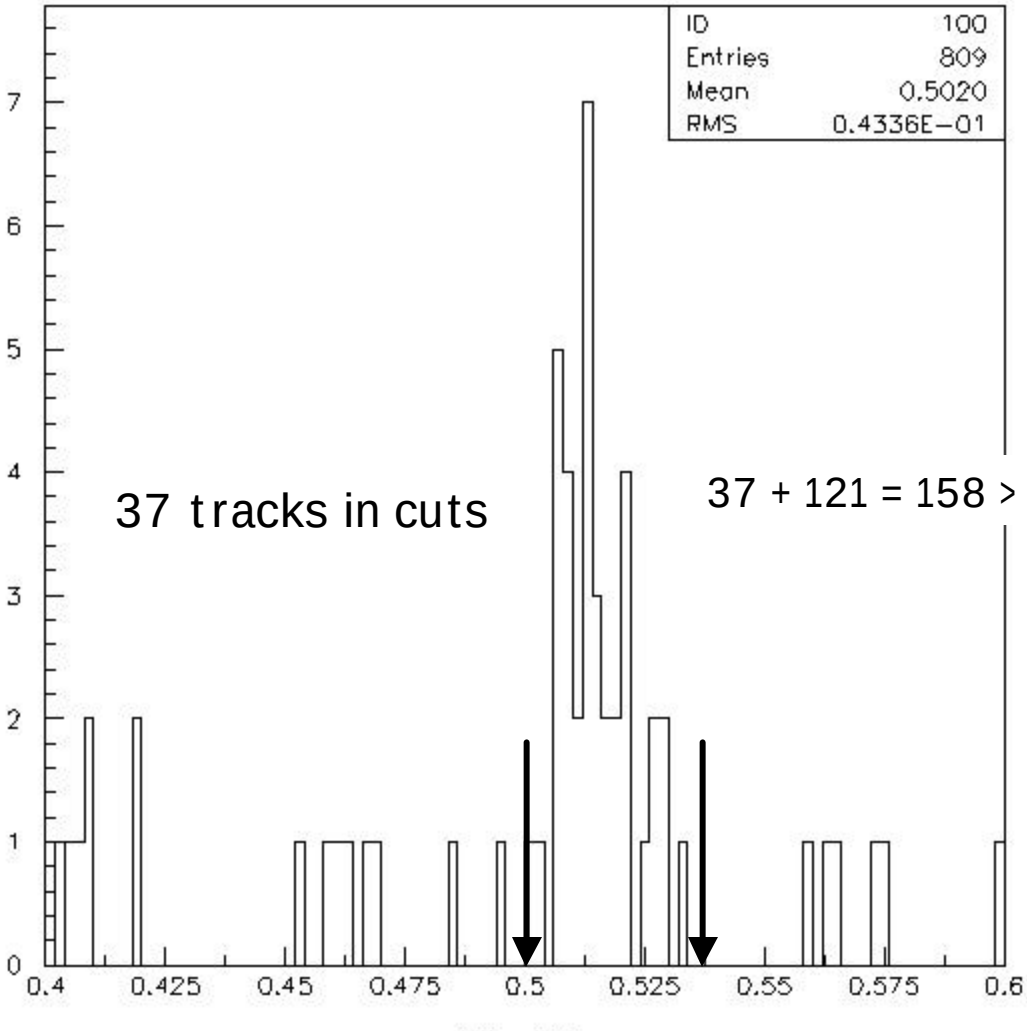
XTRP_curv vs. COT_curv
for tracks matching in phi



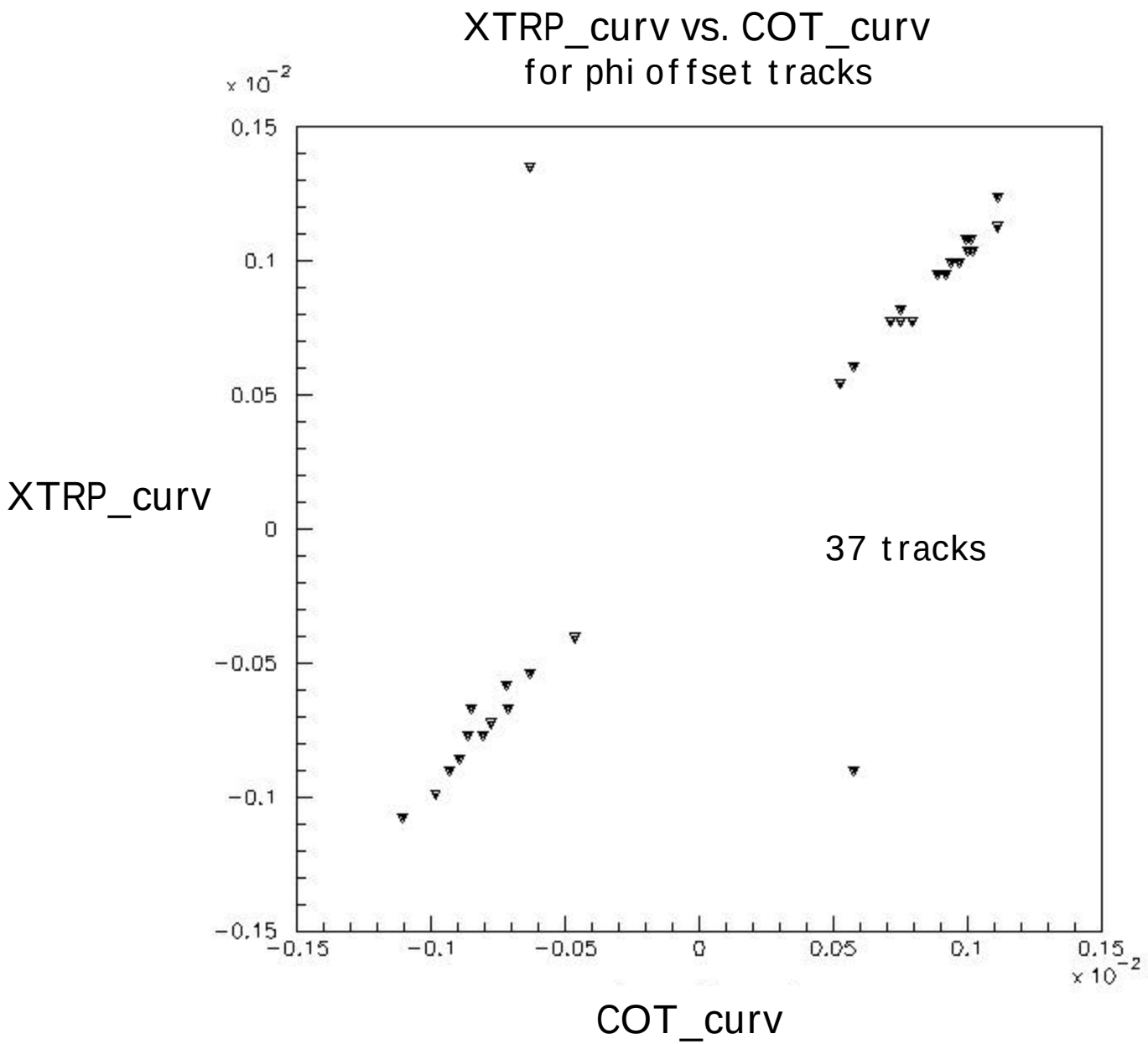
XTRP_curv

COT_curv

XTRP tracks with offset phi



XTRP_phi – SVT_phi


XTRP_curv vs. COT_curv
for phi offset tracks
x 10^-2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
XTRP_curv
37 tracks
−0.15
−0.1
−0.05
0
0.05
0.1
0.15
x 10^-2
COT_curv