More on SVXonly tracking

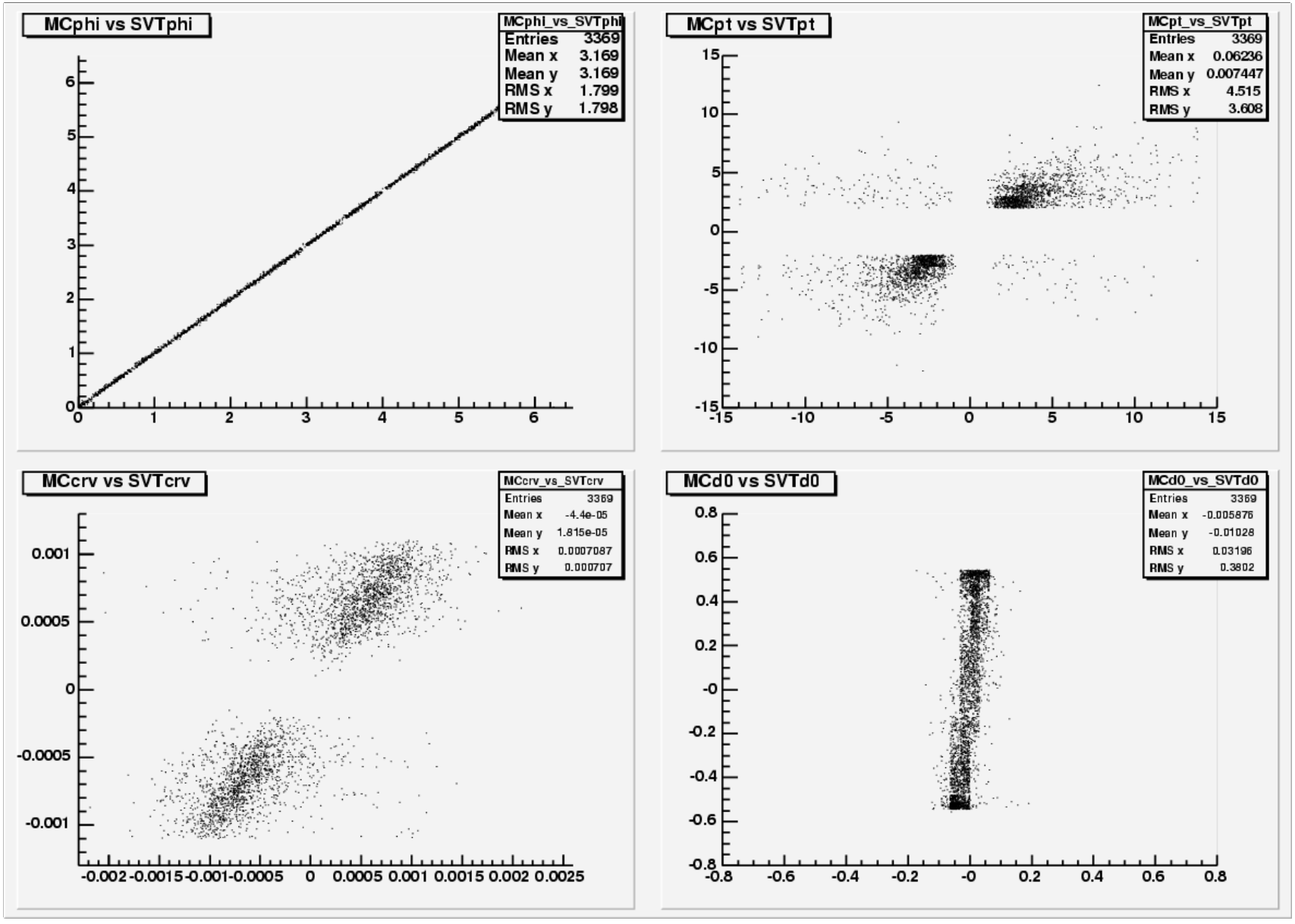
A. Annovi, P. Catastini, A. Cerri

Checking SVXonly performances

1. MC Jpsi events
   - Match MC tracks with SVT tracks
   - Study resolution & efficiency

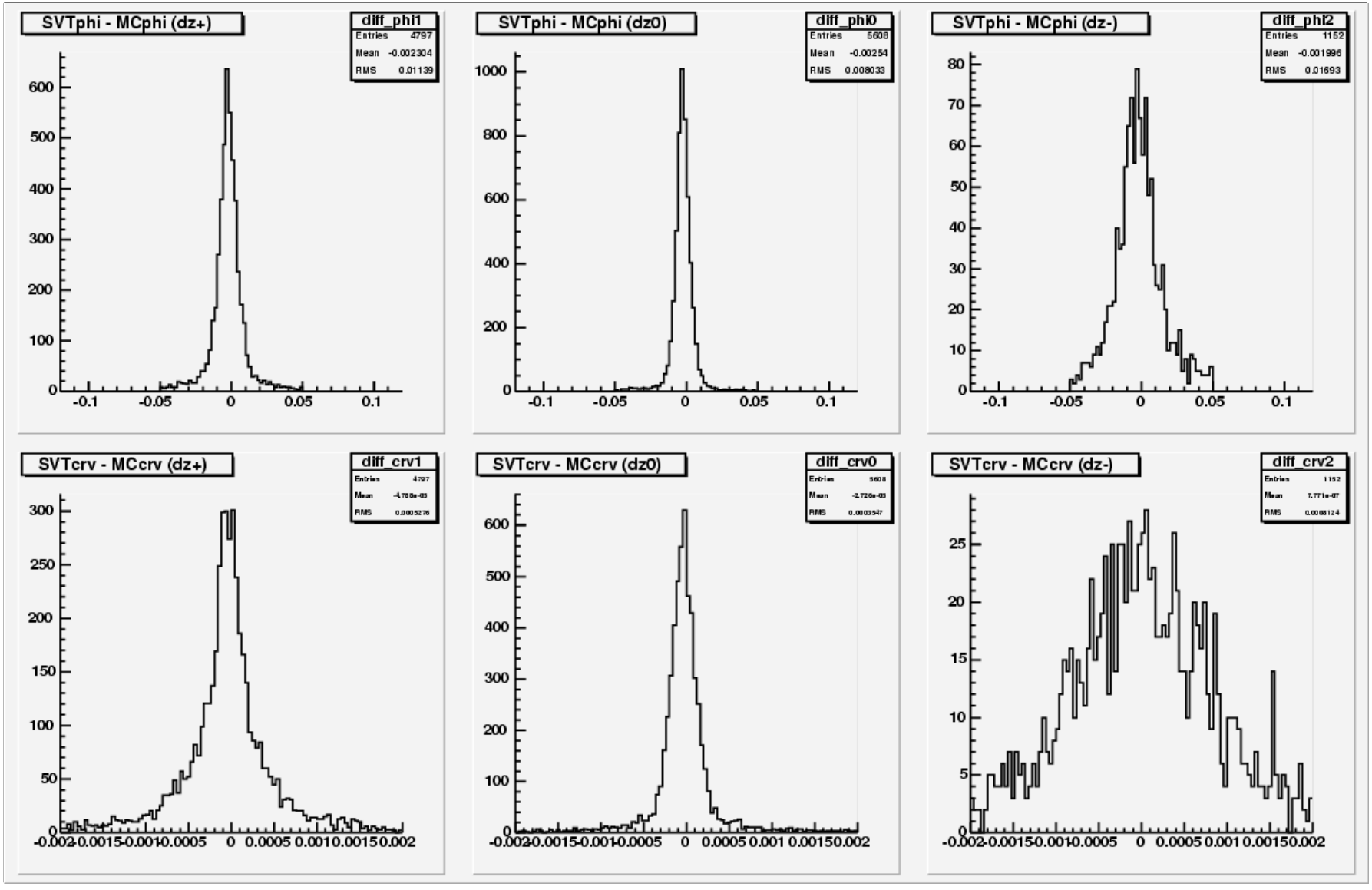
2. Check with Muon_Calib data
   - Match offline tracks with SVT tracks
   - Staduy Background, Efficiency & res.

MC vs SVT Dphi<0.05 & χ^2<10

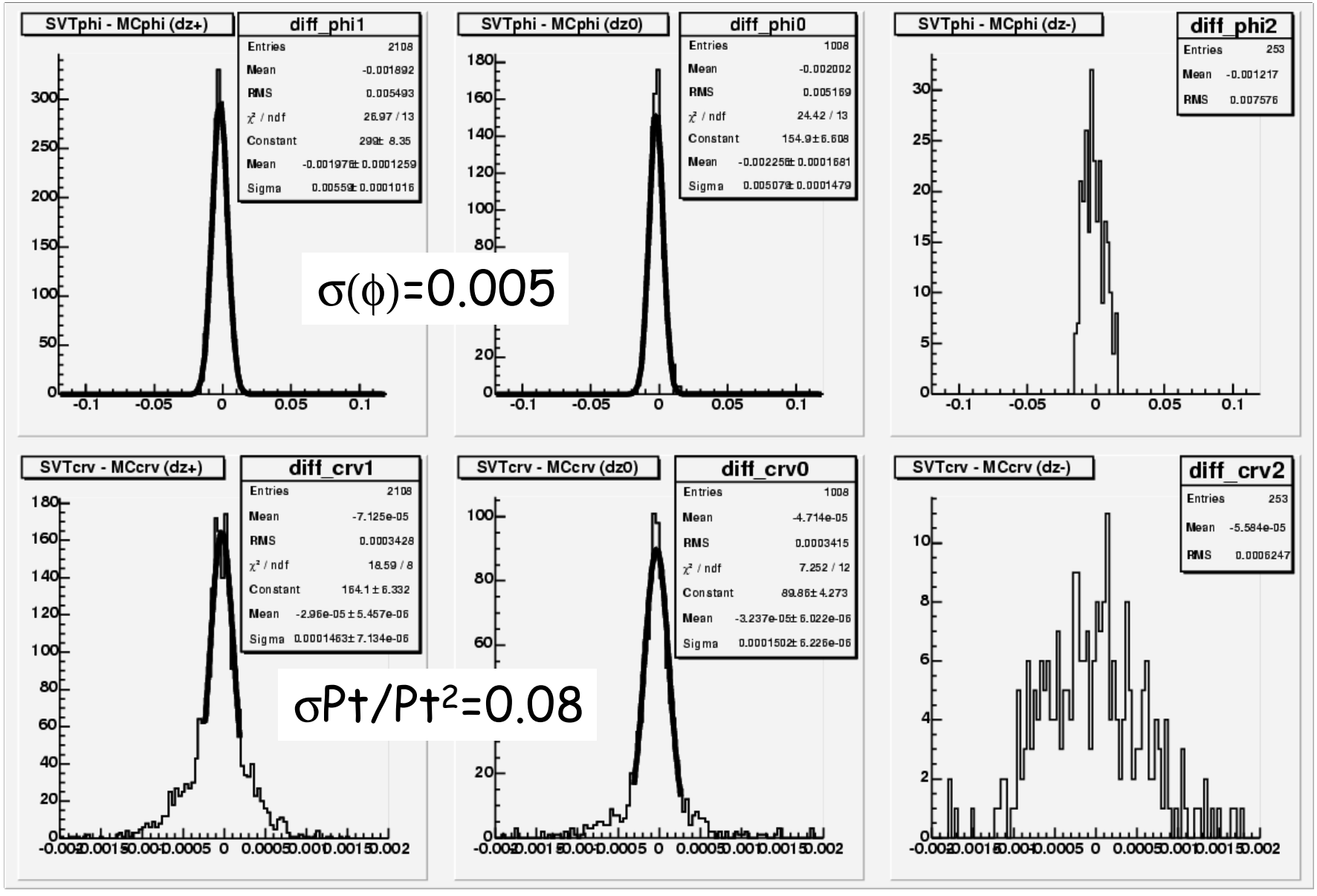


MC vs SVT Dphi<0.05 & χ^2<10

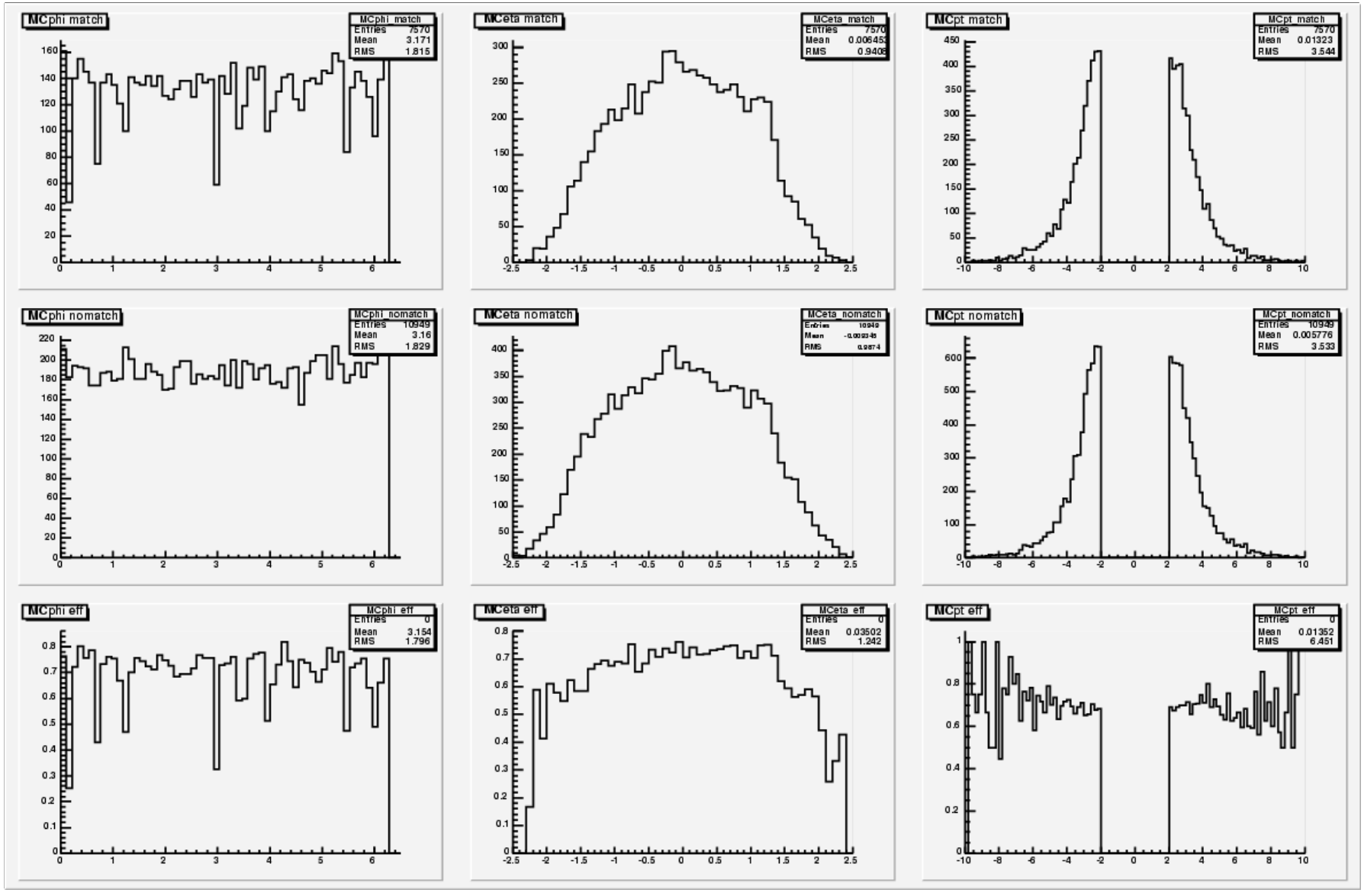
Correct Dz Dz = 0 Wrong Dz



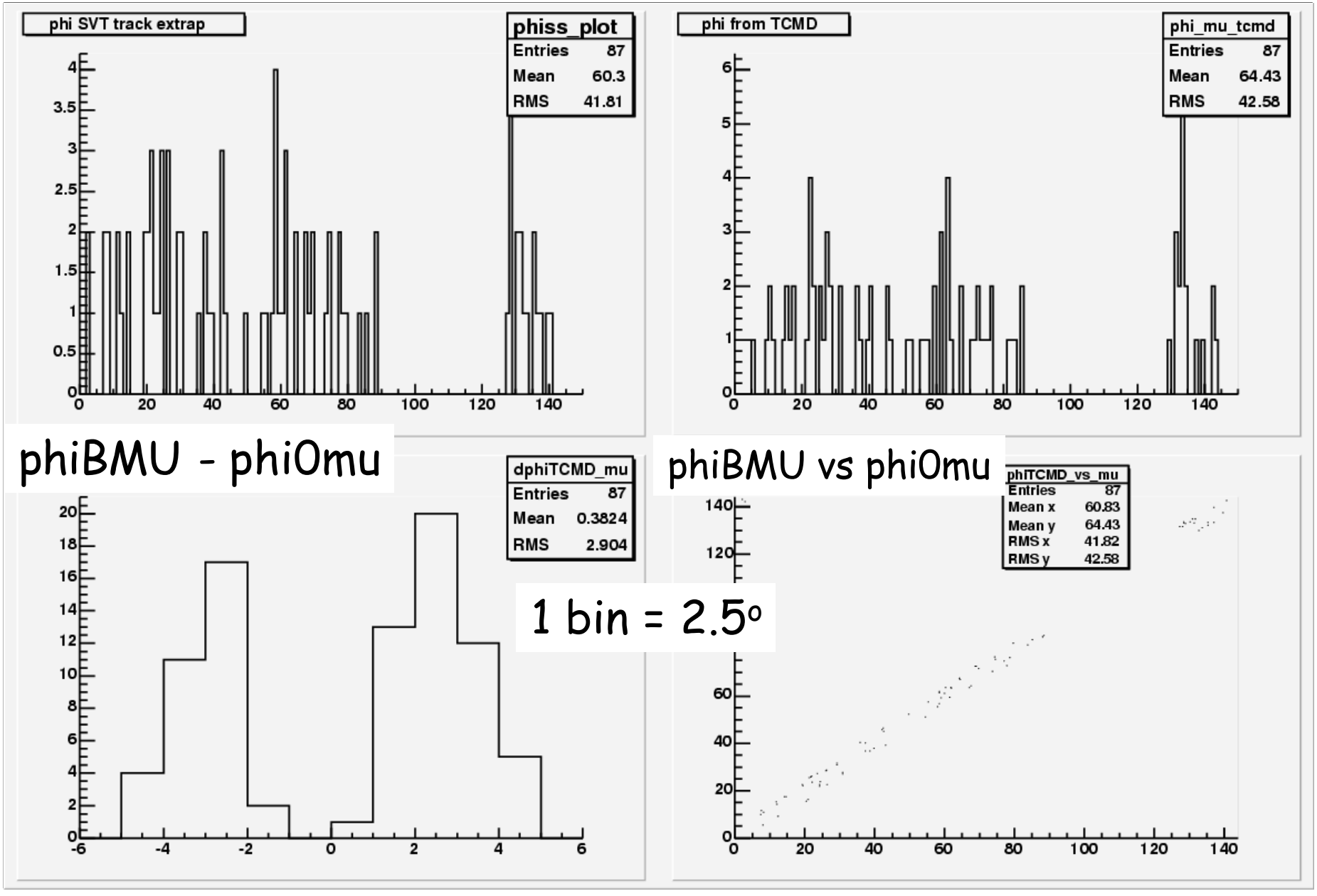
MC vs SVT Dphi<0.015 & χ^2<10



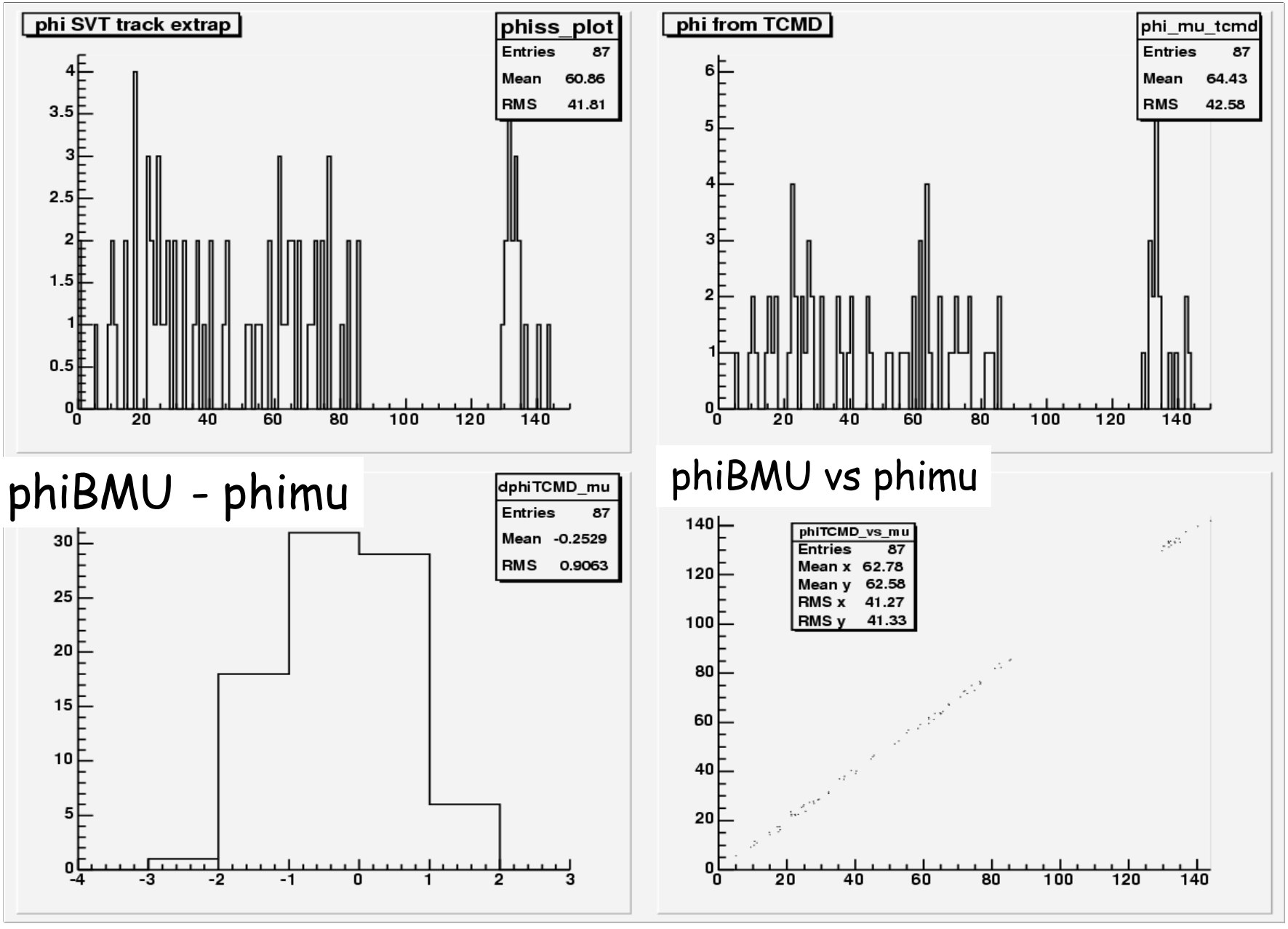
SVT efficiency (wrt MC) Dphi<0.015 & χ^2<10



Matching MC muon with BMU hits

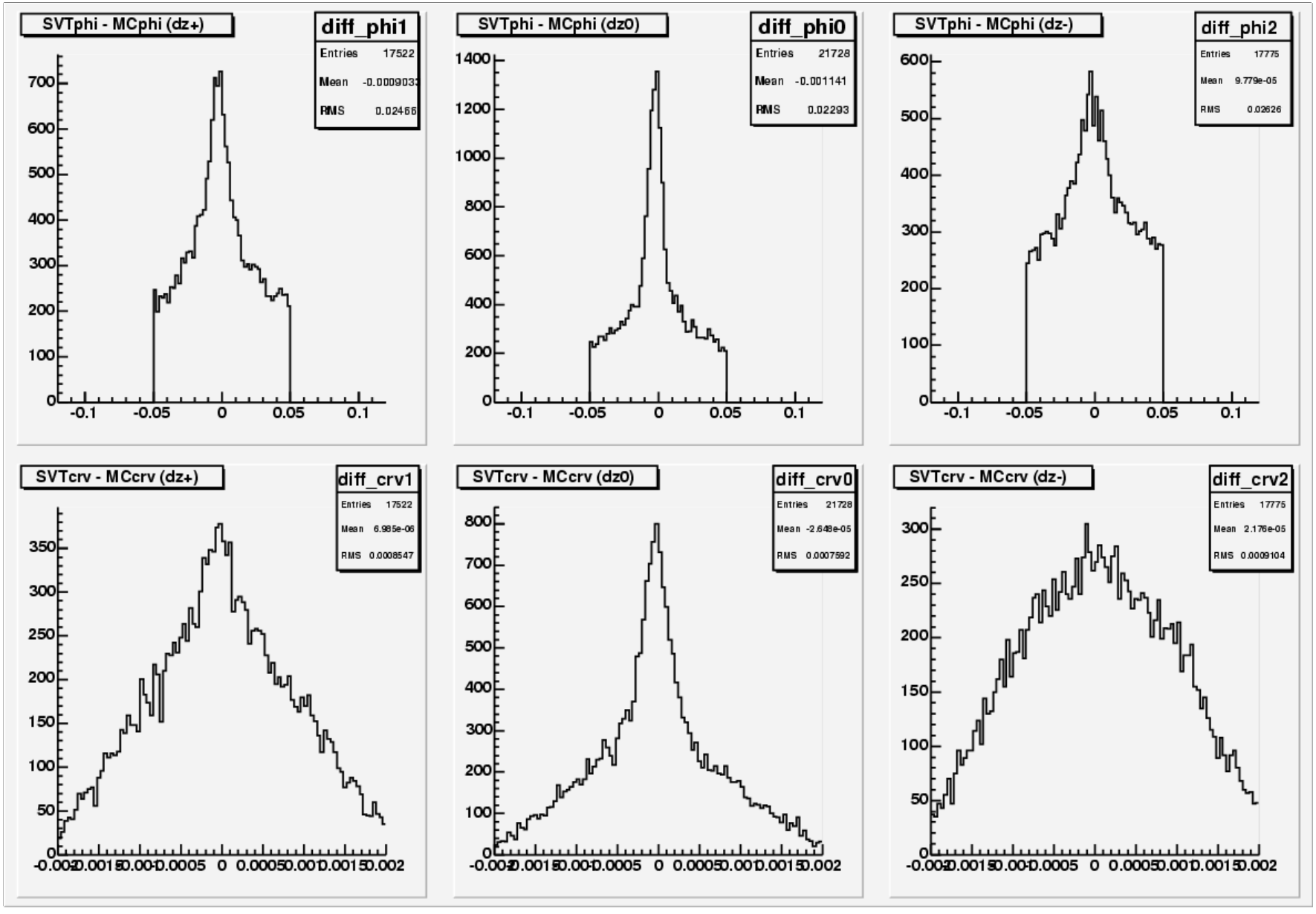


Simple extrapolation using true track parameters



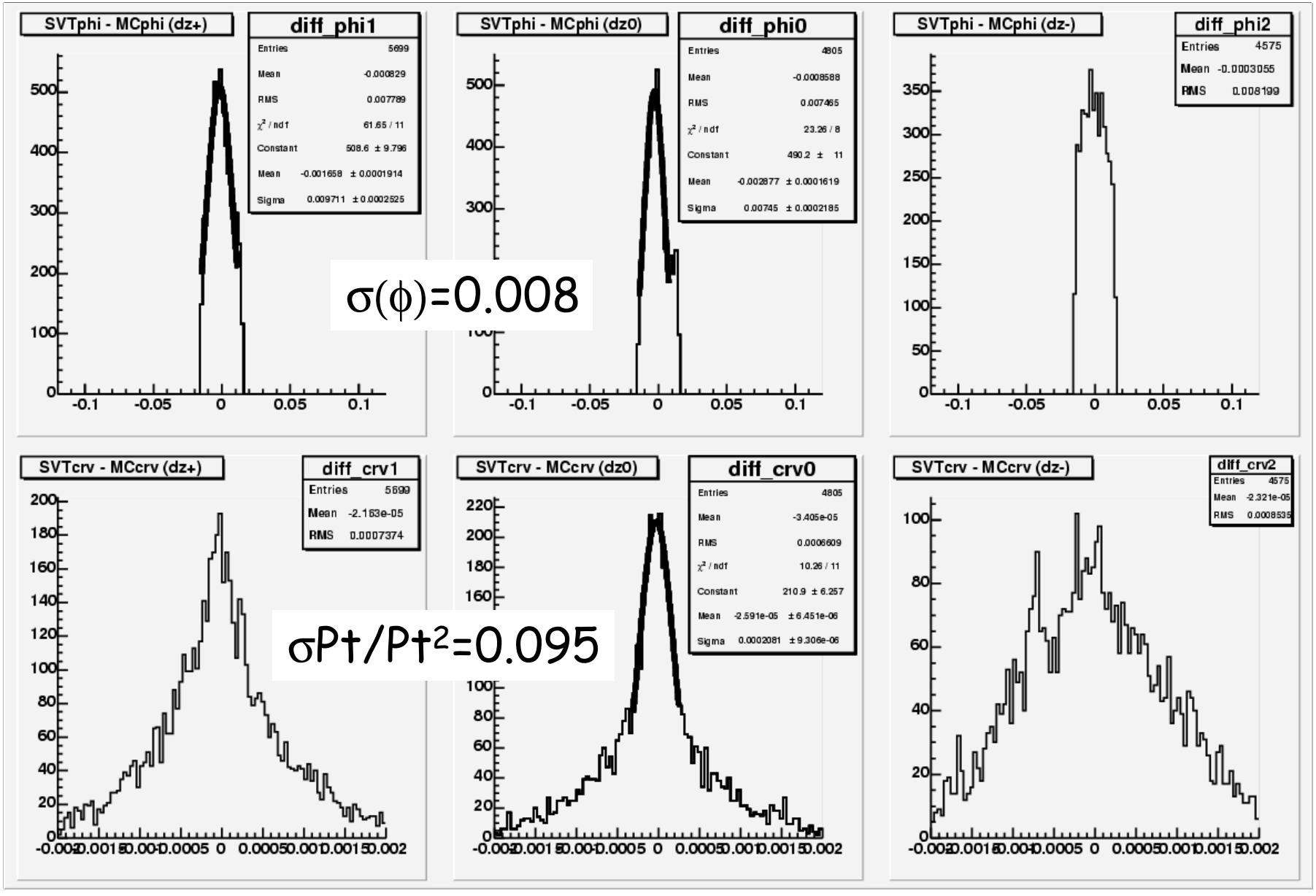
MuonCalib data vs SVT Dphi<0.05 & χ^2<10

Correct Dz Dz = 0 Wrong Dz

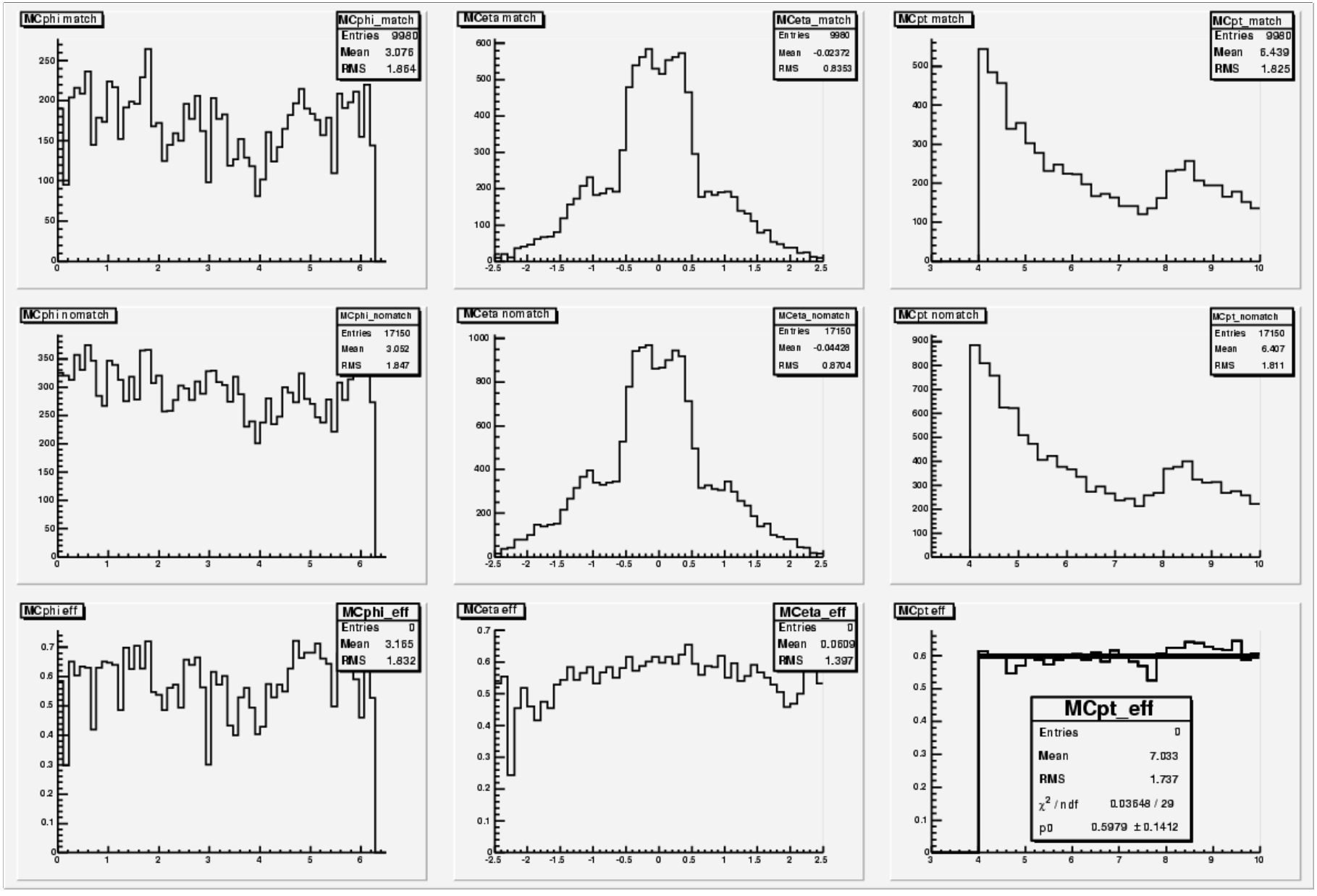


MuonCalib data vs SVT Dphi<0.015 & χ^2<10

Correct Dz Dz = 0 Wrong Dz



SVT efficiency (wrt MuonCalib data) Dphi<0.015 & χ^2<10



Conclusions

- SVXonly tracking resolutions:
  - $\sigma(Pt)/Pt^2 = 0.095$
  - $\sigma(\phi) = 0.008$

- BMU-trk matching window
  - 3-5 bins (should check it on data)