

200GeV pp Beam Shift Correction Status

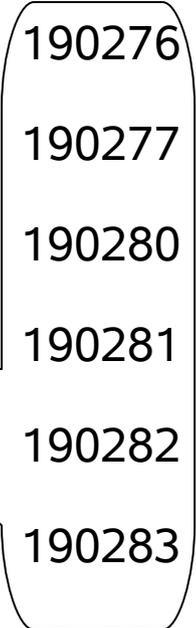
PHENIX Analysis meeting **June 27 2007**

Àstrid Morreale

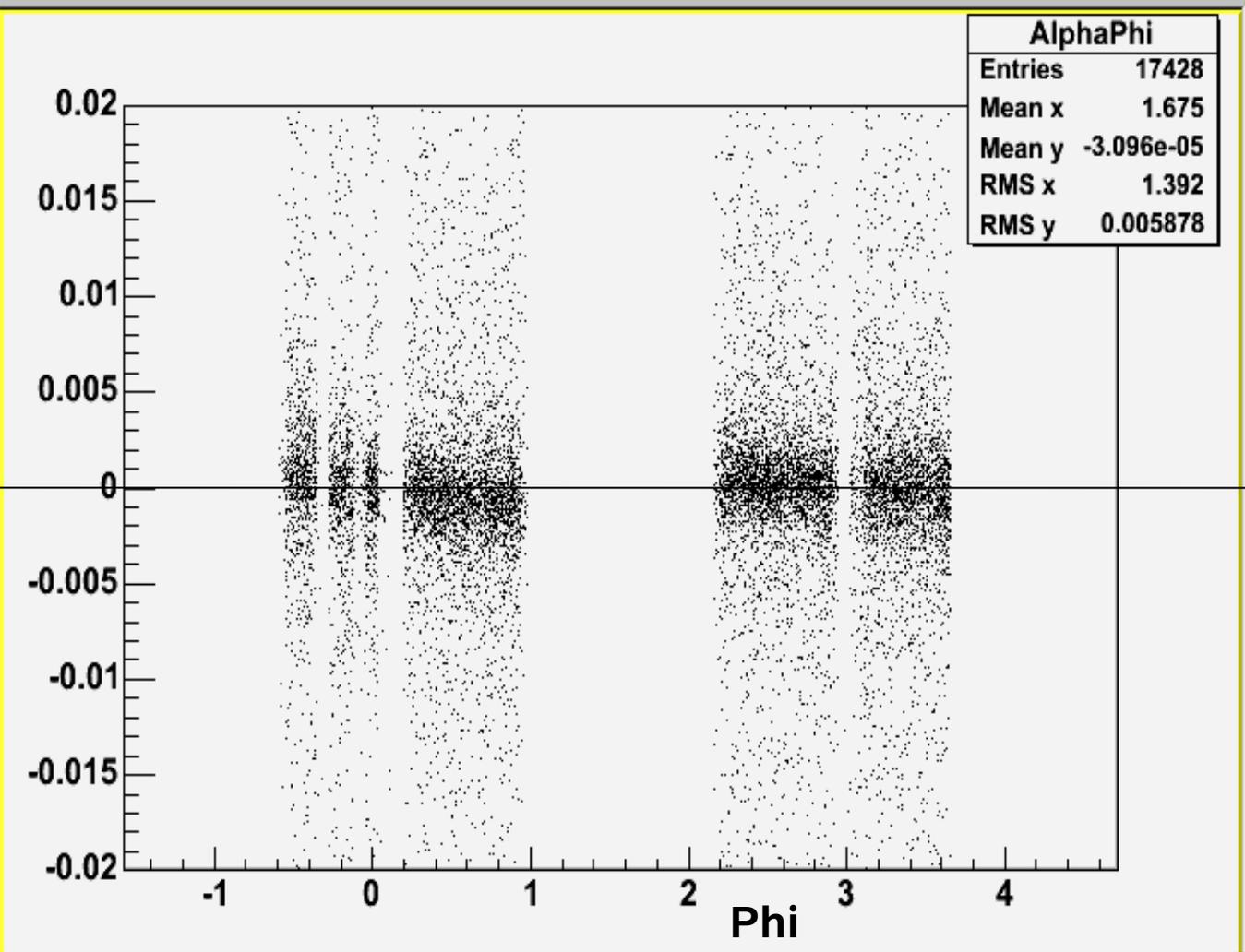
Zero Field Runs Run6pp-200 GeV

Run number	Events(M)	Duration(min)
190276	4.8	19
190277	3.1	11
190280	6.4	24
190281	1.0	4
190282		
190283	3.5	13
191229	7.2	48

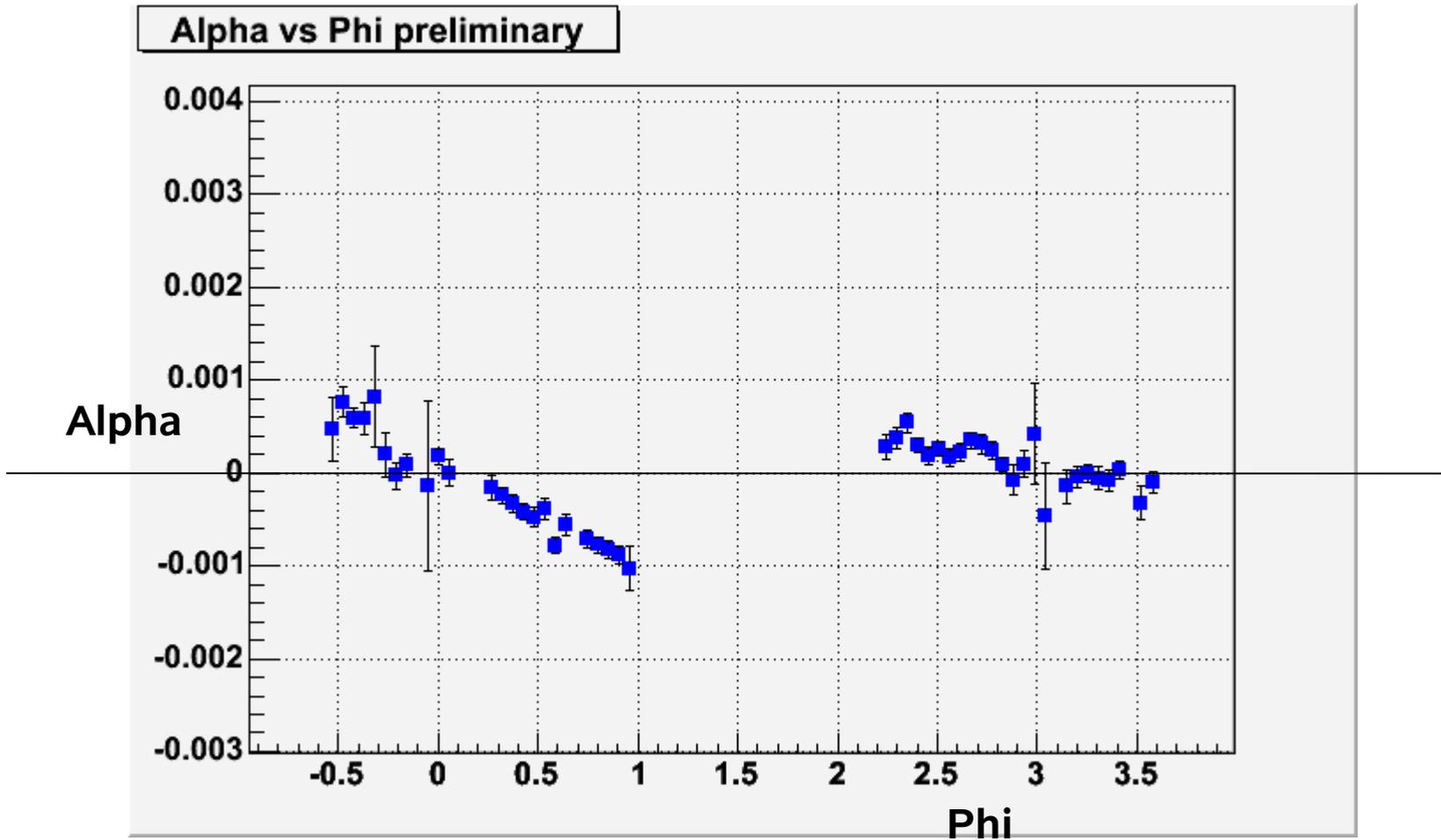
One fill



Raw Alpha vs Phi distributions from CNT First Fill Combined

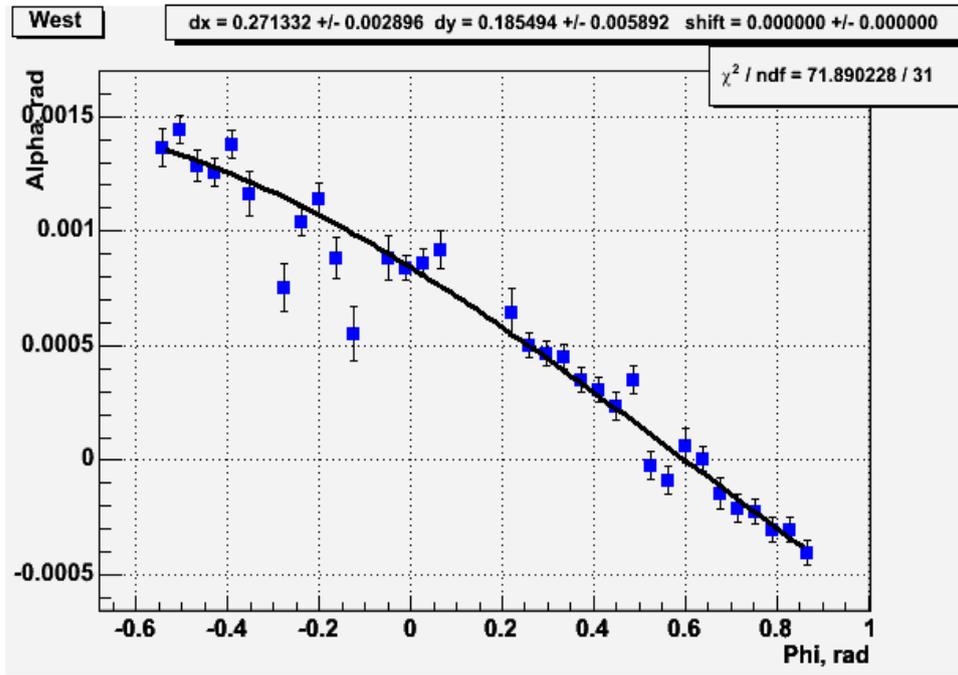


After slicing in Phi and taking the peak of the Gaussian fit
Note the scale

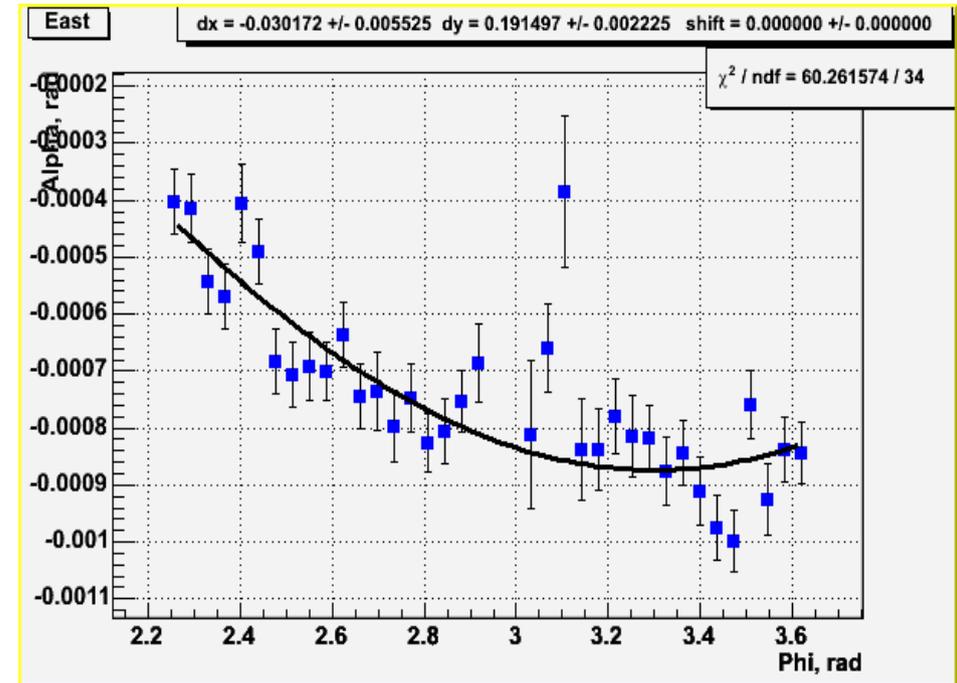


1st Fill combined-7621 as suggested in previous meeting

WEST

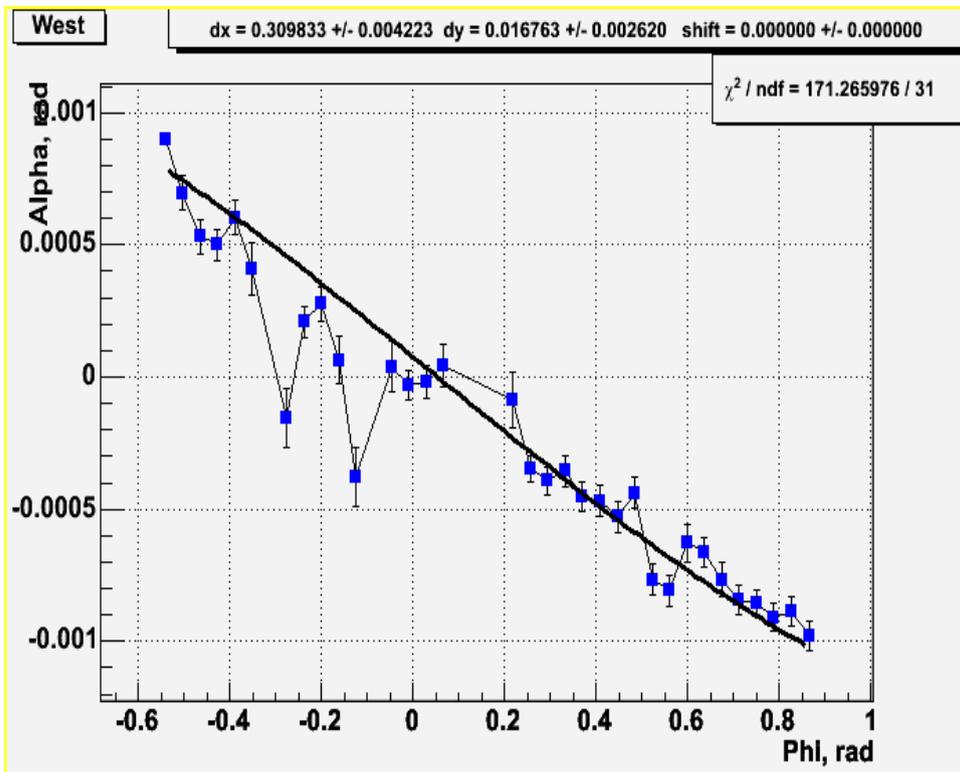


EAST



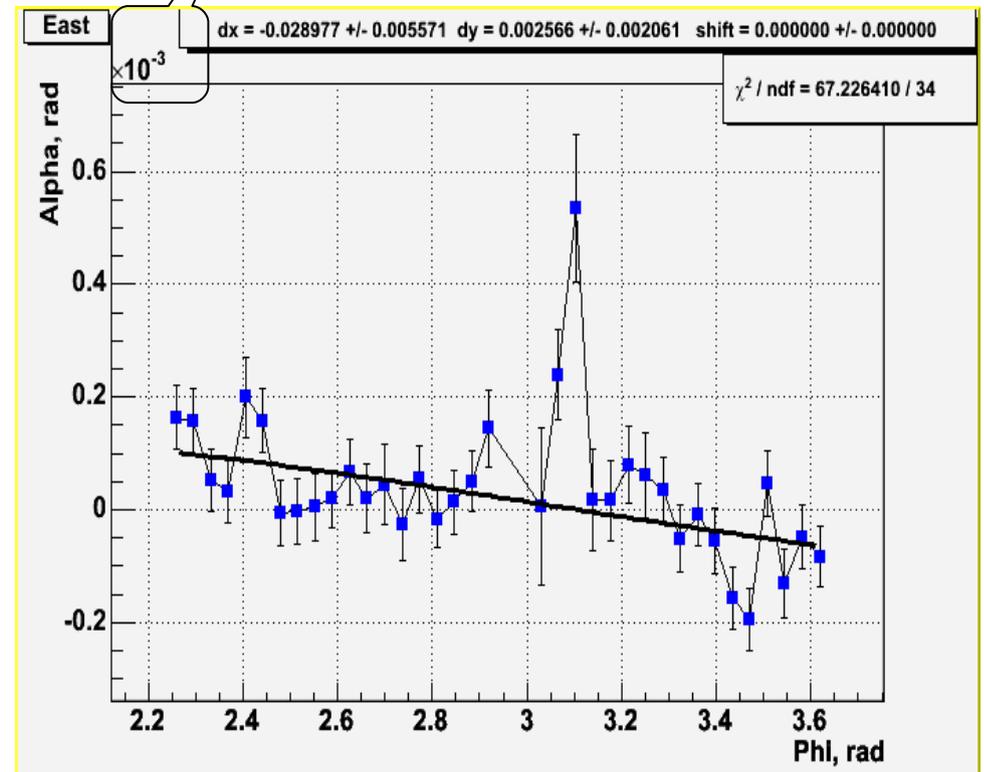
Fill 7621:
With **Y offset** value inserted in Database

WEST

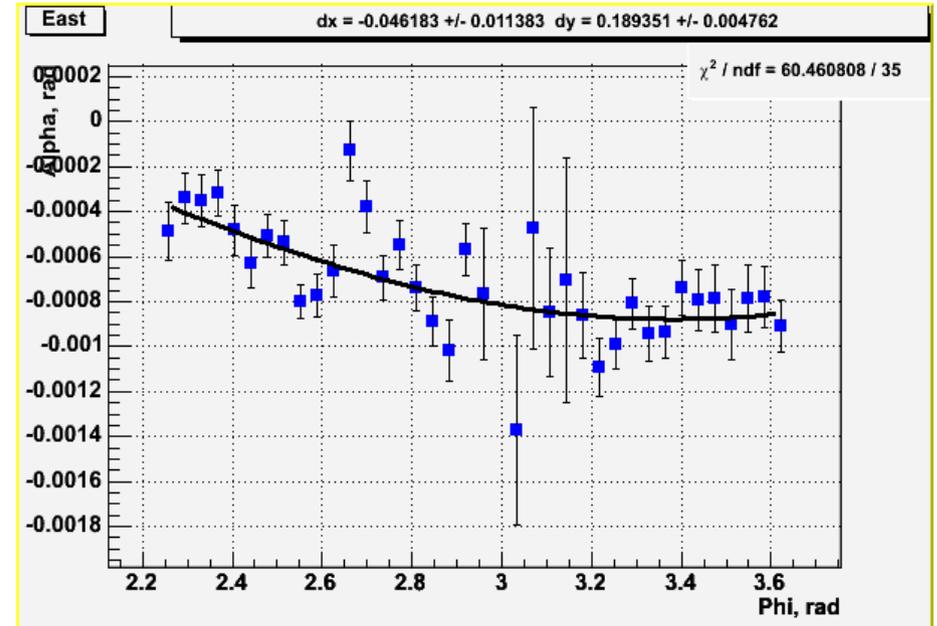
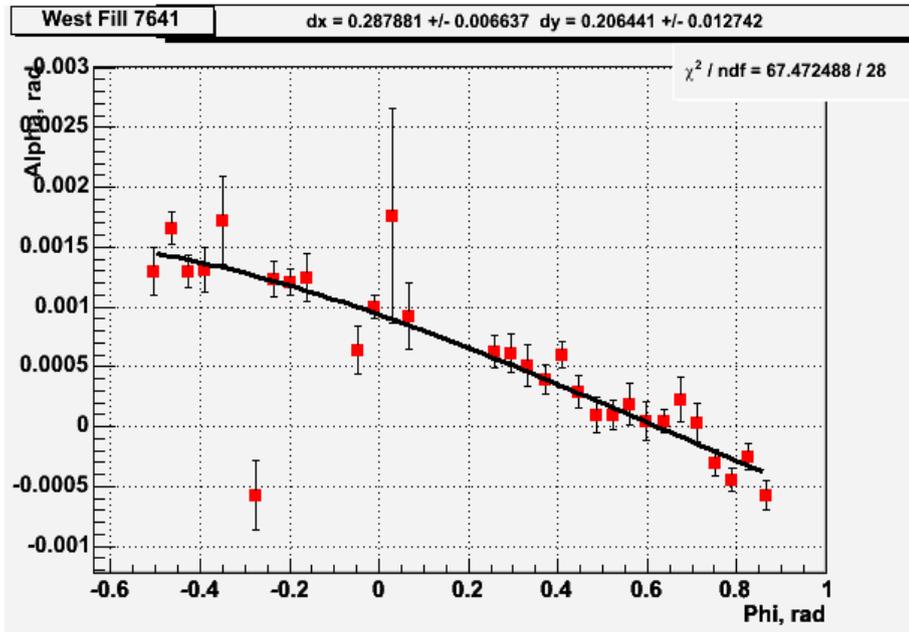


Note the scale

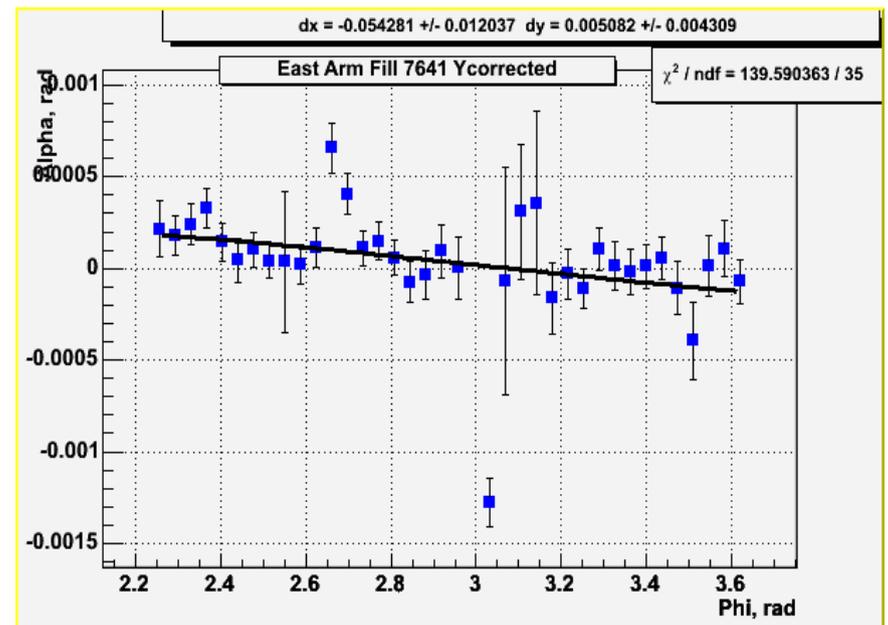
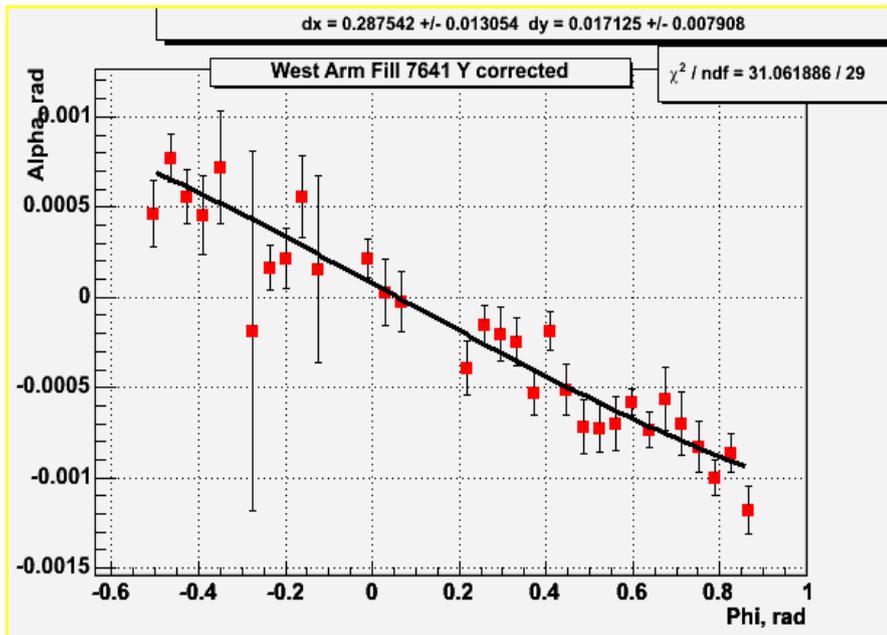
EAST



Fill 7641 combined



Fill 7641: With **Y offset** value inserted



Offsets found in my analysis

XOffset West fill 7621: -0.27

XOffset East fill 7621: -0.03

YOffset fill 7621: 0.19

valid: beginRun= **190001** endRun =**191228**

If there is no reconstruction of failed runs this should still be ok.

XOffset West fill 7641: -0.29 cm

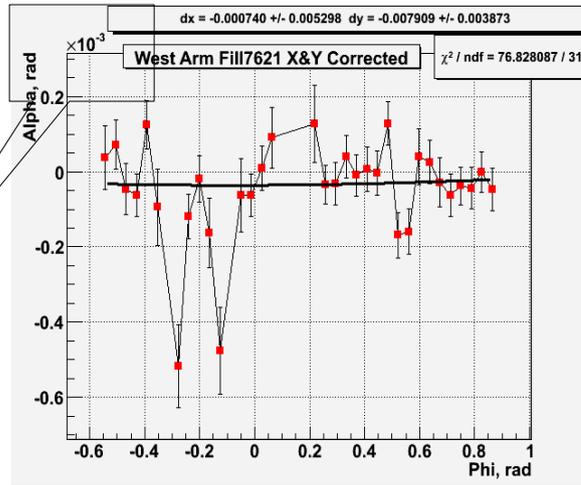
XOffset East fill 7621: -0.05 cm

YOffset fill 7621: 0.198 cm

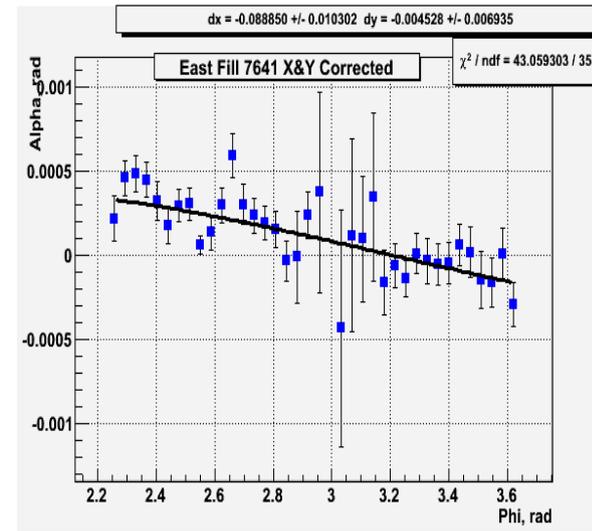
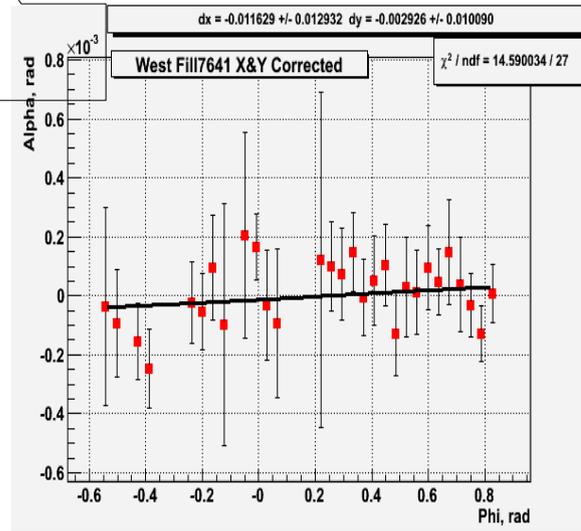
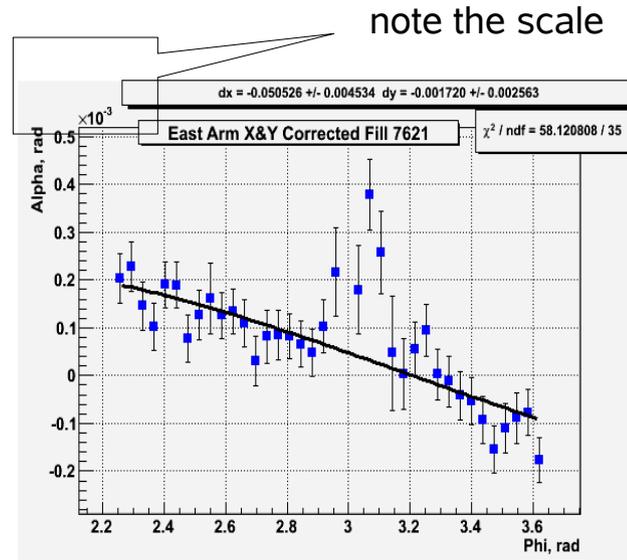
valid: beginRun= **191229** endRun=**206999**

There are still ~ 18 zero field runs that have not been produced

Inserting YOffset as well as both East and west X corrections



note the scale



I need this correction before I can move on to momentum corrections as well as matching.

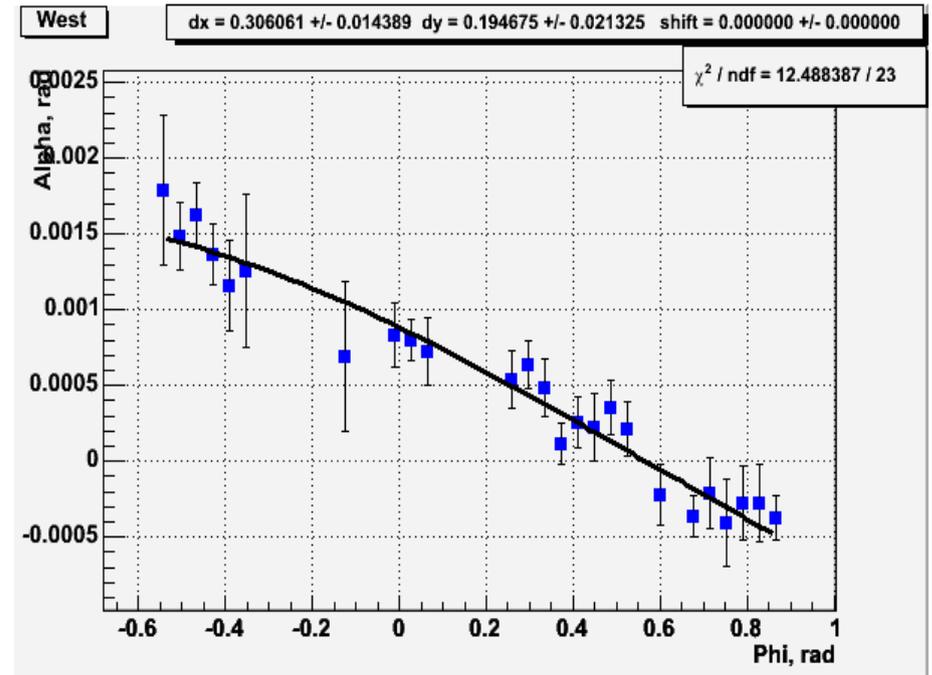
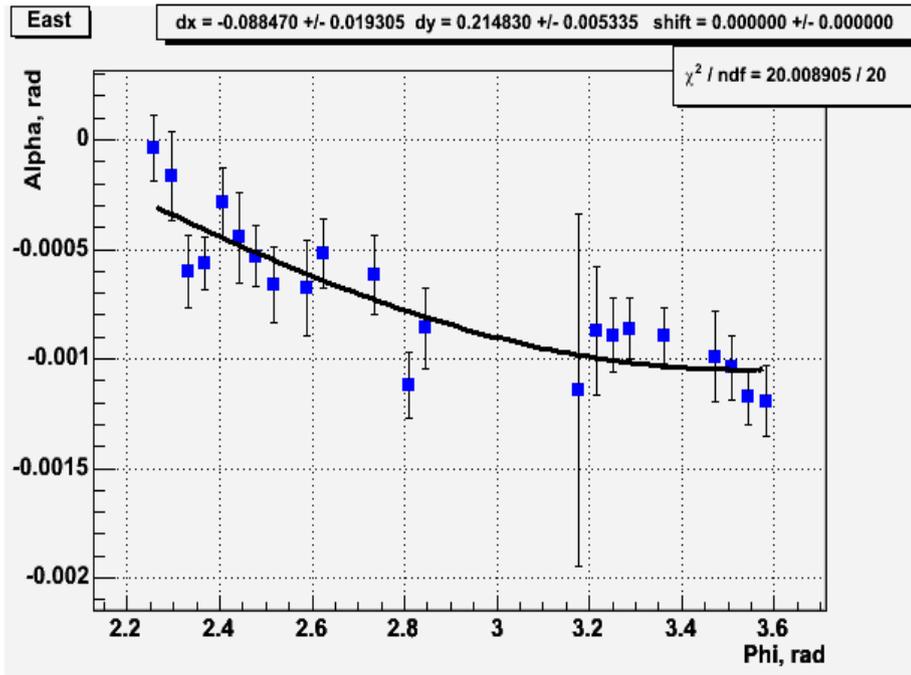
I have started some **wiki** documentation and tutorial that shows the general procedure I used, as well as some tips and tricks I found from people along the way:

https://www.phenix.bnl.gov/WWW/offline/wikioff/index.php?title=Run06pp:_Beam_Shift%2C_Momentum_and_General_Matching

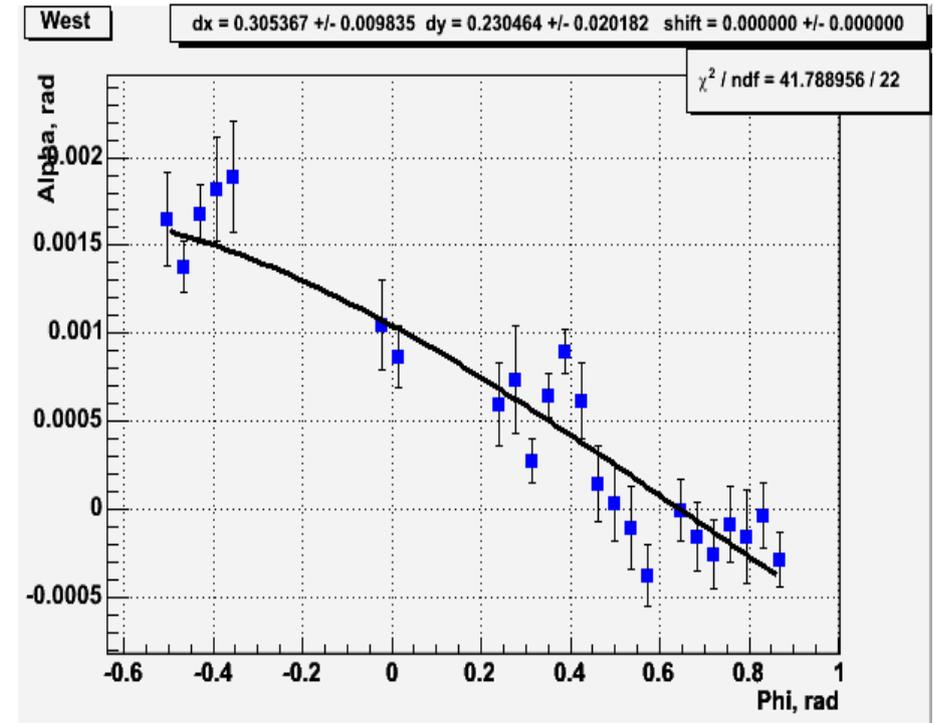
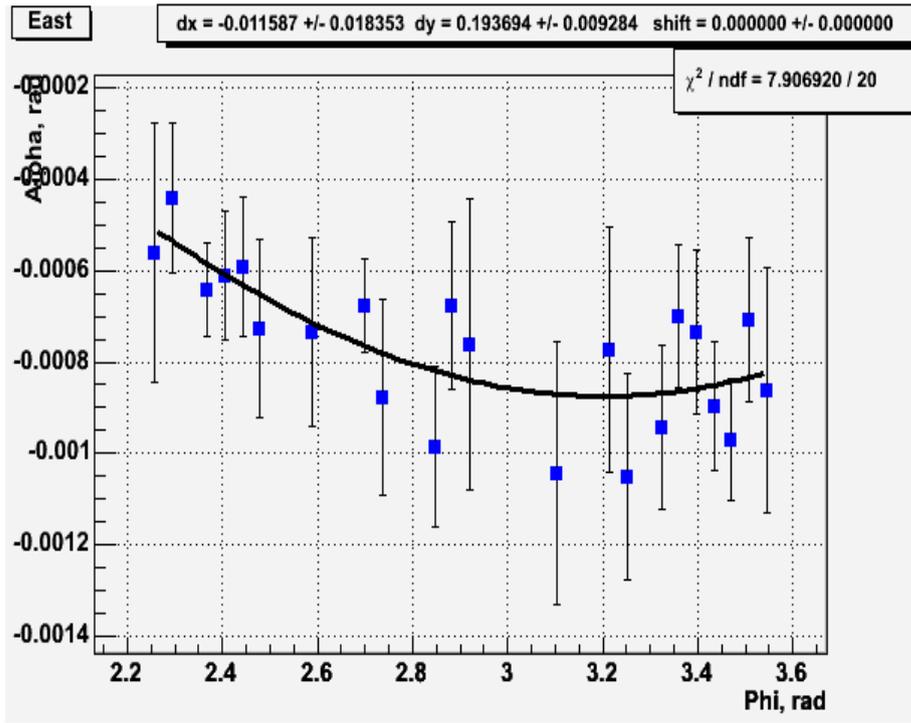
I would like to acknowledge all the help I got from Christine Aidala. **Thank You!**

EXTRA SLIDES

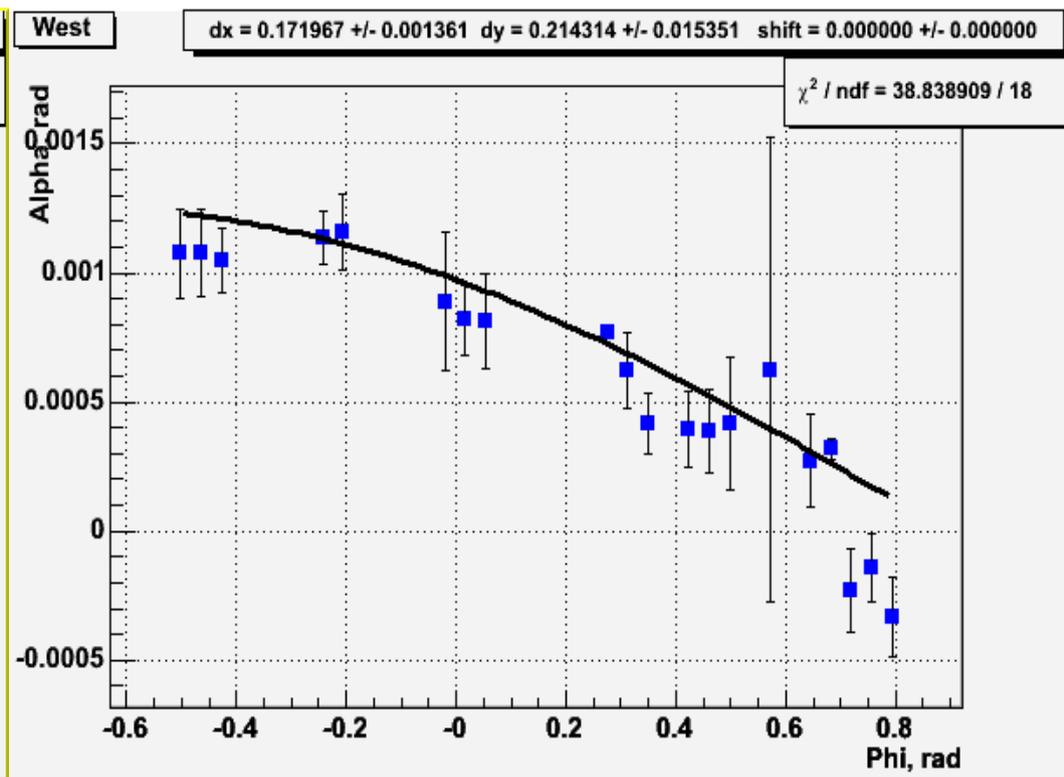
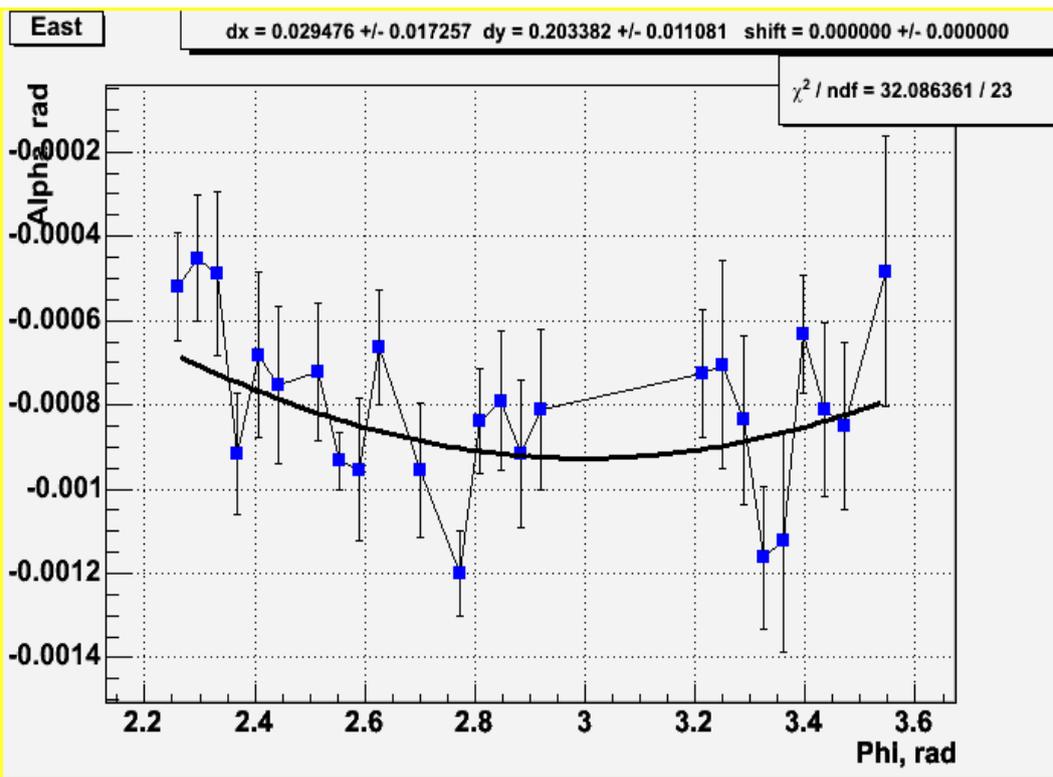
190276



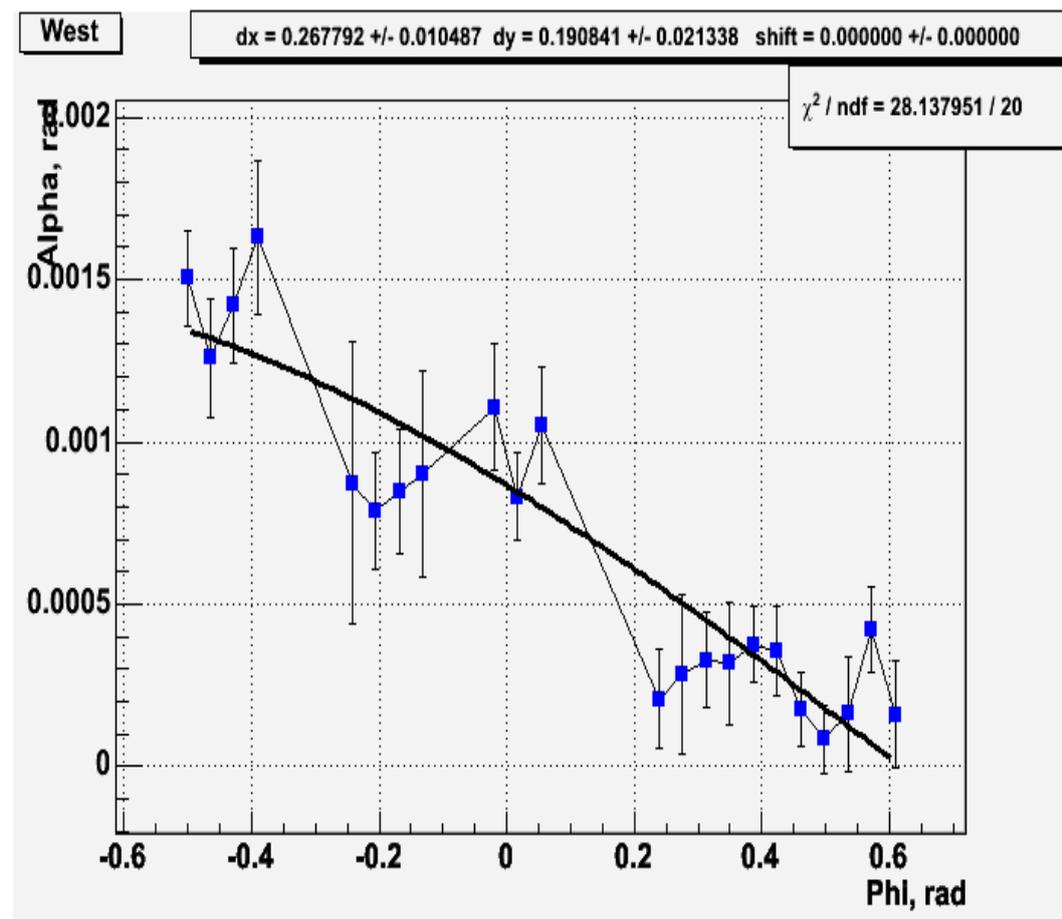
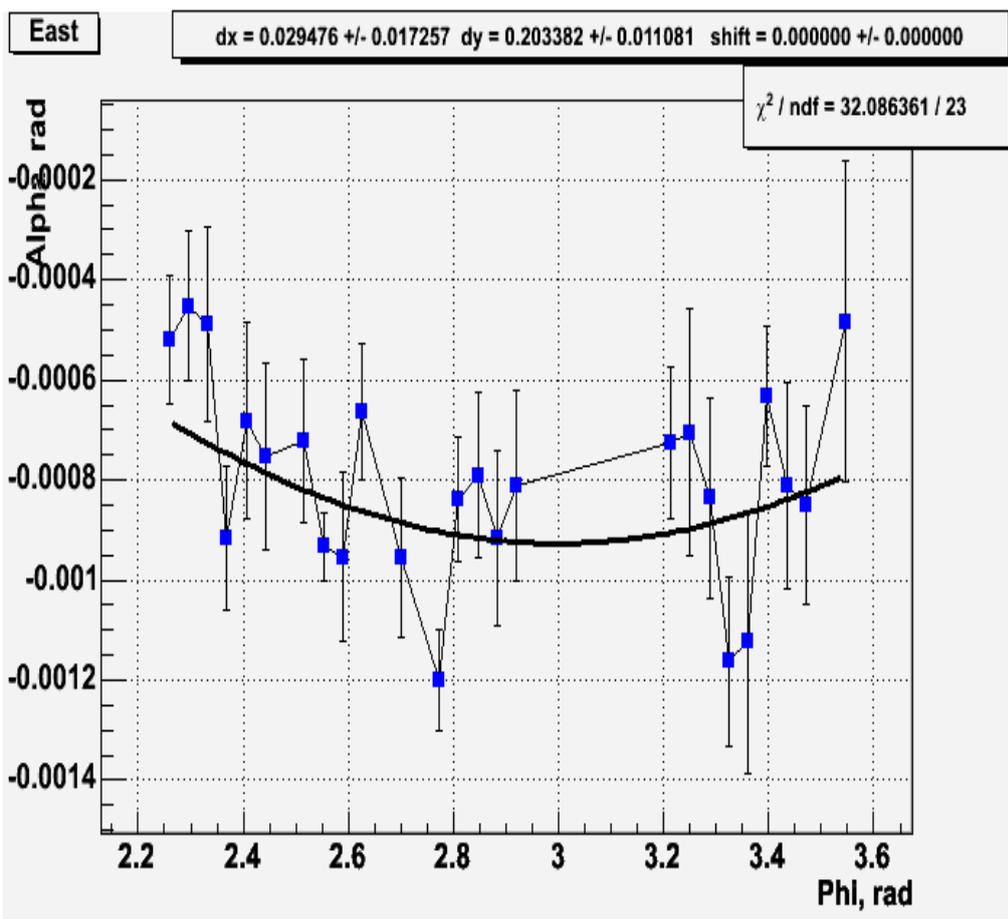
190277



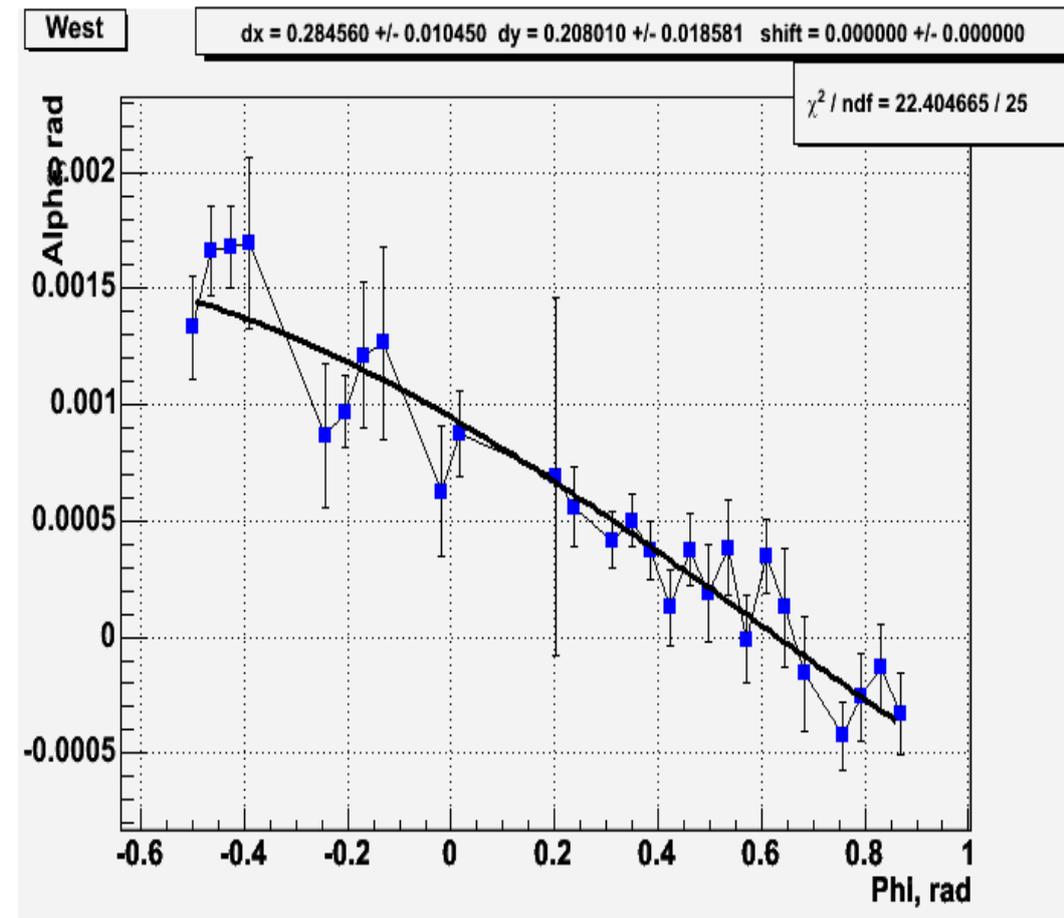
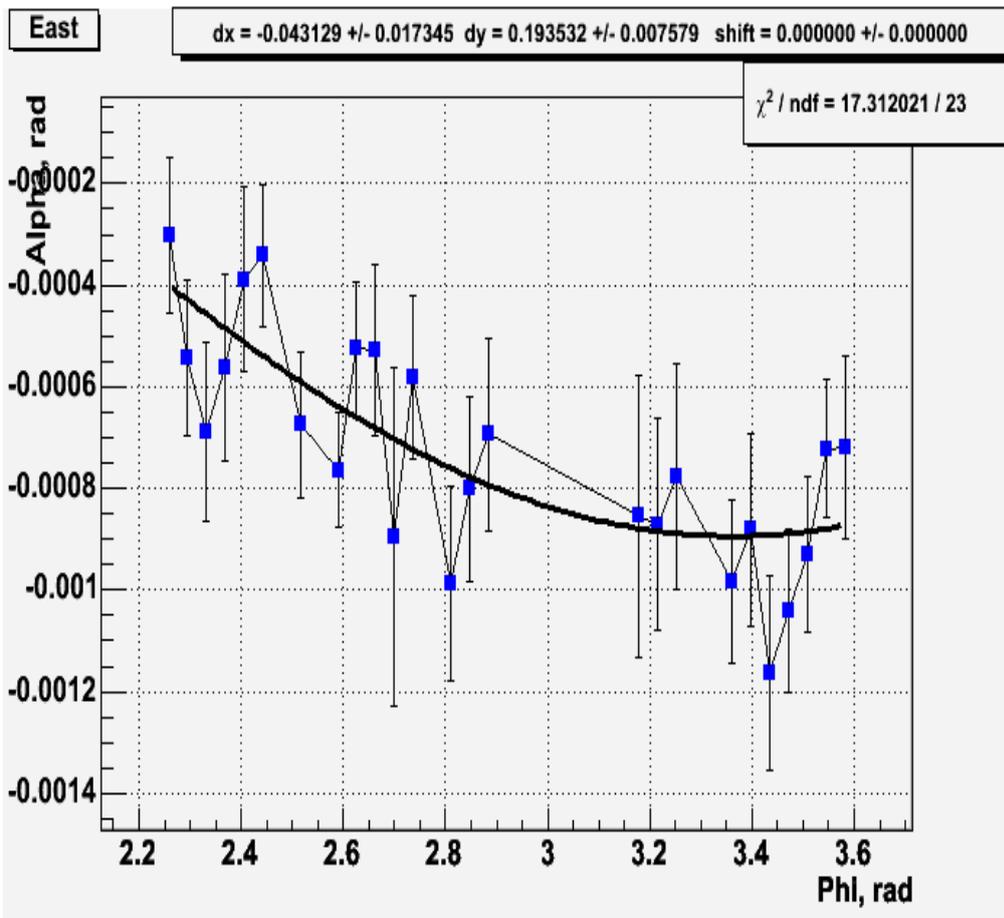
190280



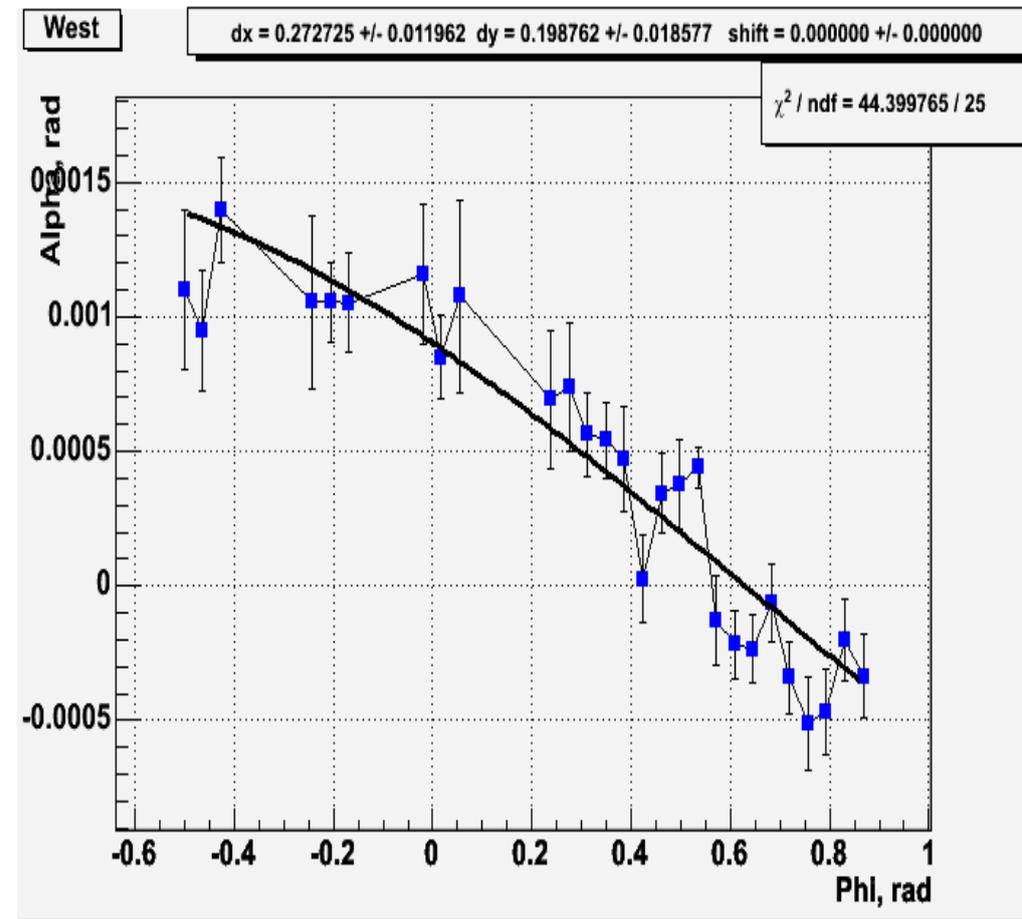
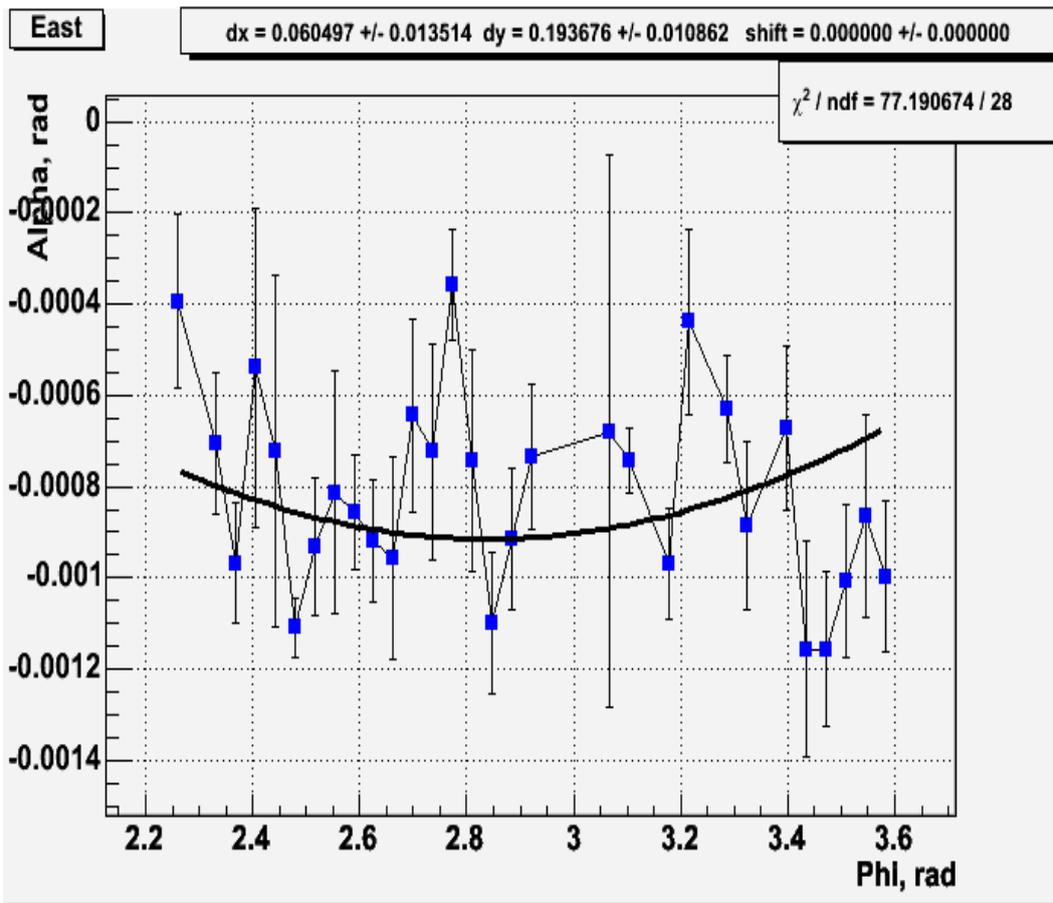
190281



190282



190283



191229

