

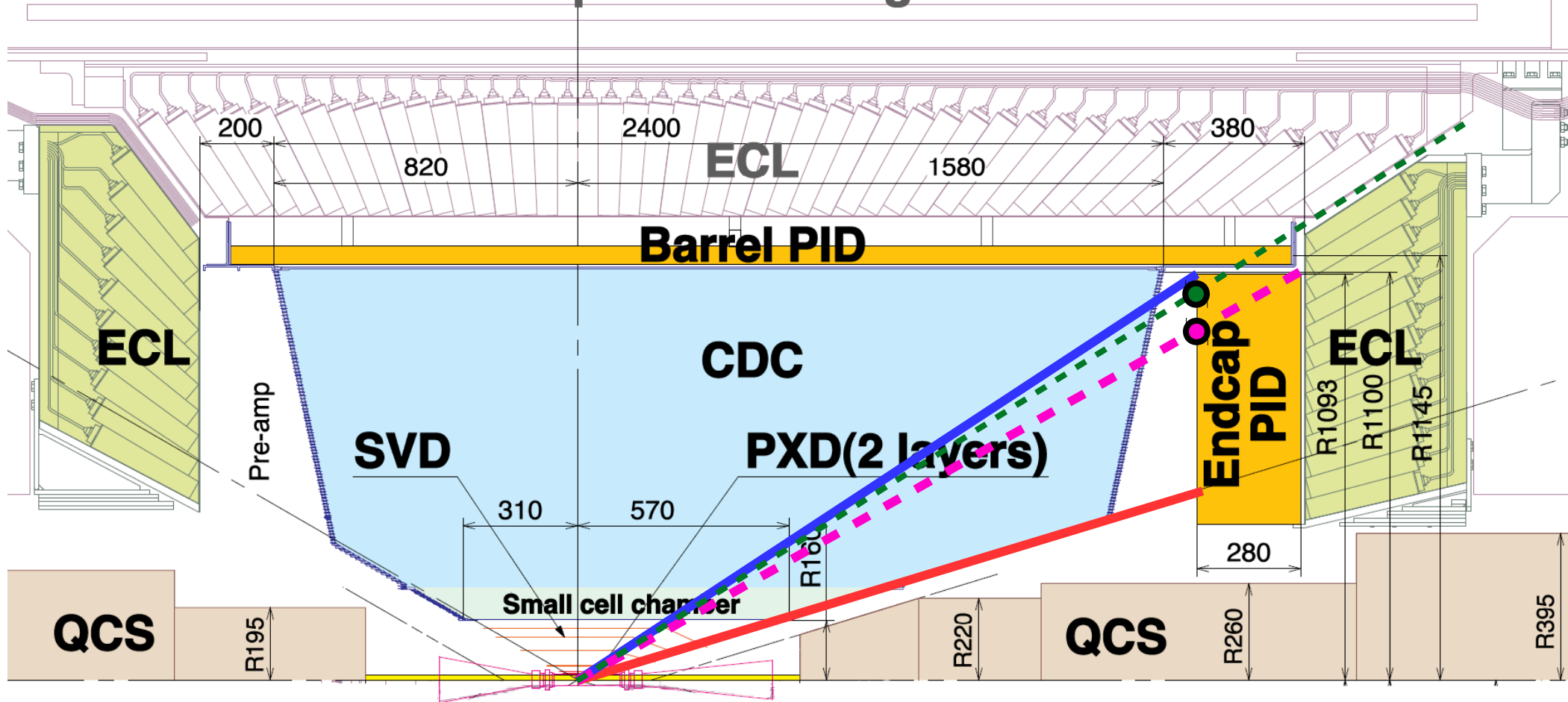
ARICH calibration

Leonid Burmistrov

- BhaBha and mu mu events → asymmetric ring
- Calibration (global alignment)
- Slow control ARICH PC's

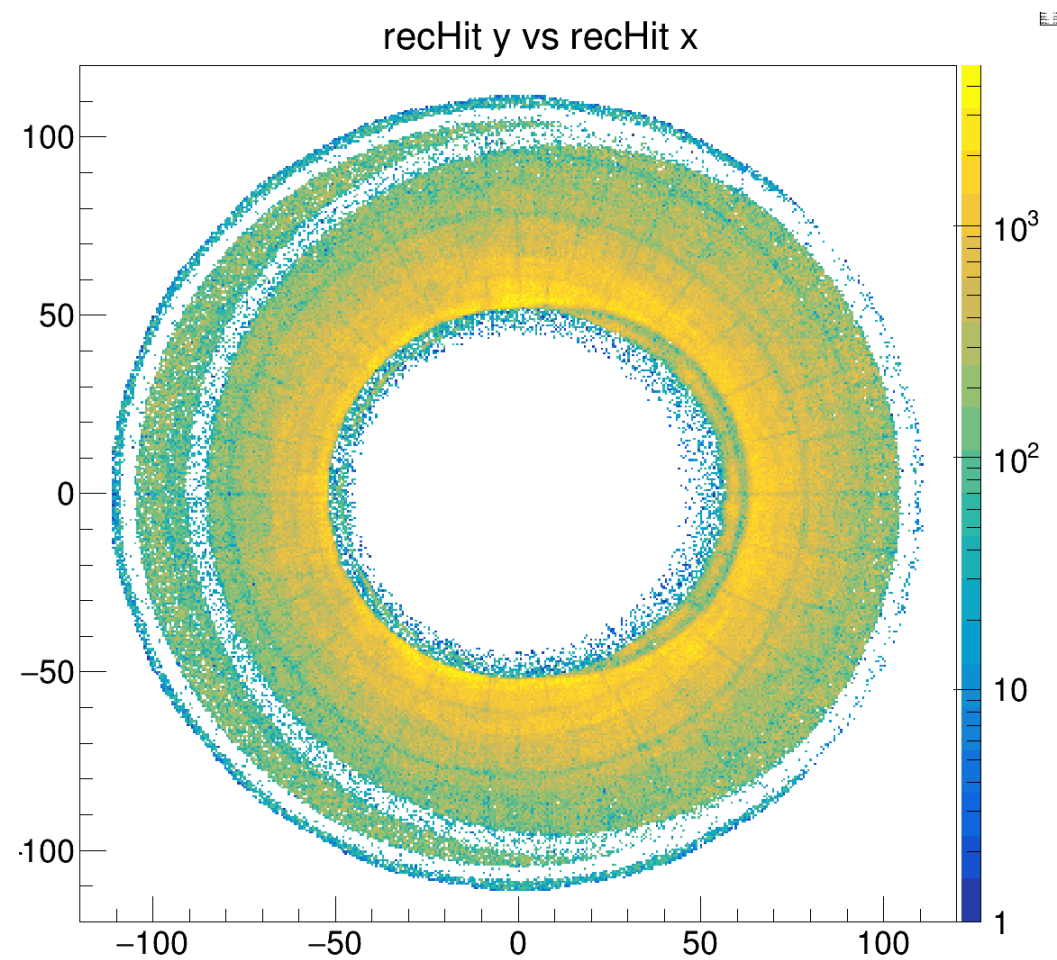


Super conducting coil

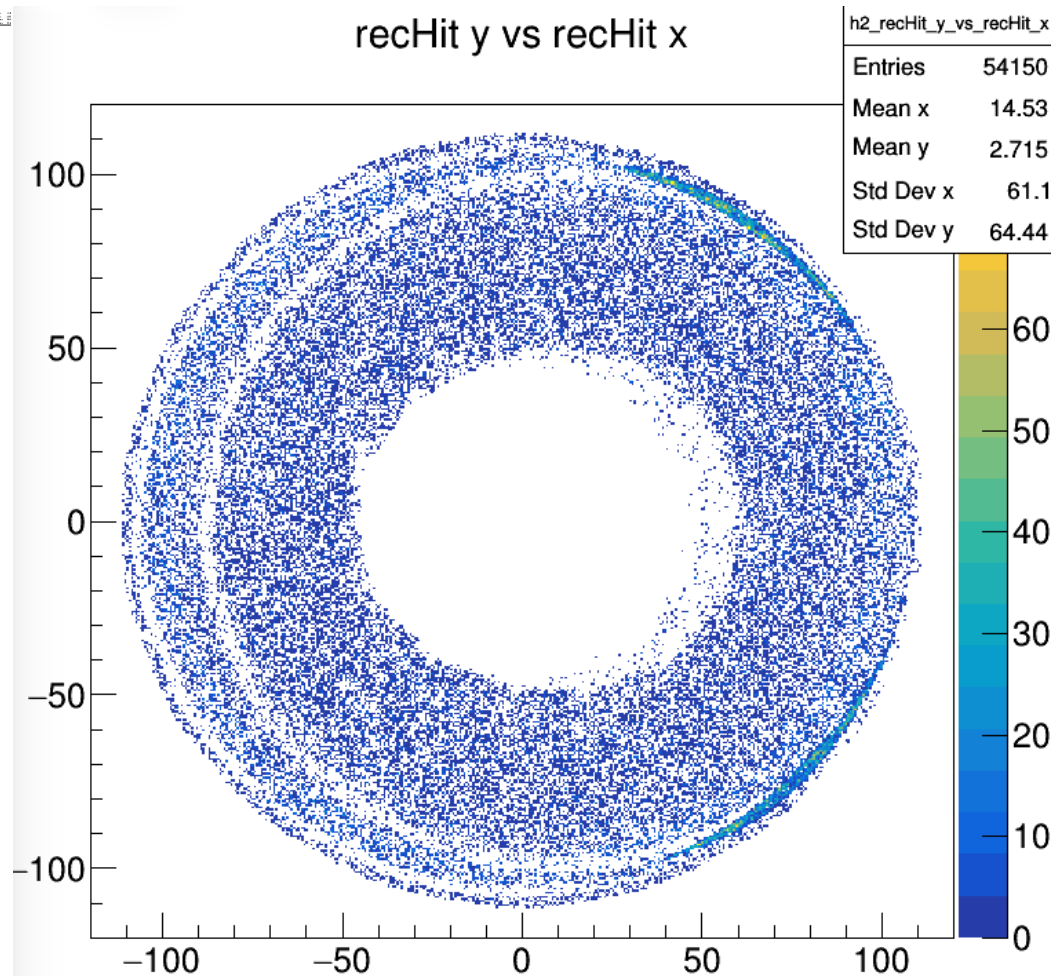


	R, cm	Theta, deg	z, cm	Theta, rad
—	51.4	17.0	168.0	0.297
—	109.3	33.0	168.0	0.577
- - -	109.3	29.1	196.0	0.509
●	93.8	29.1	168.0	0.509
●	104.1	31.8	168.0	0.555

Offline skim
(BhaBha)

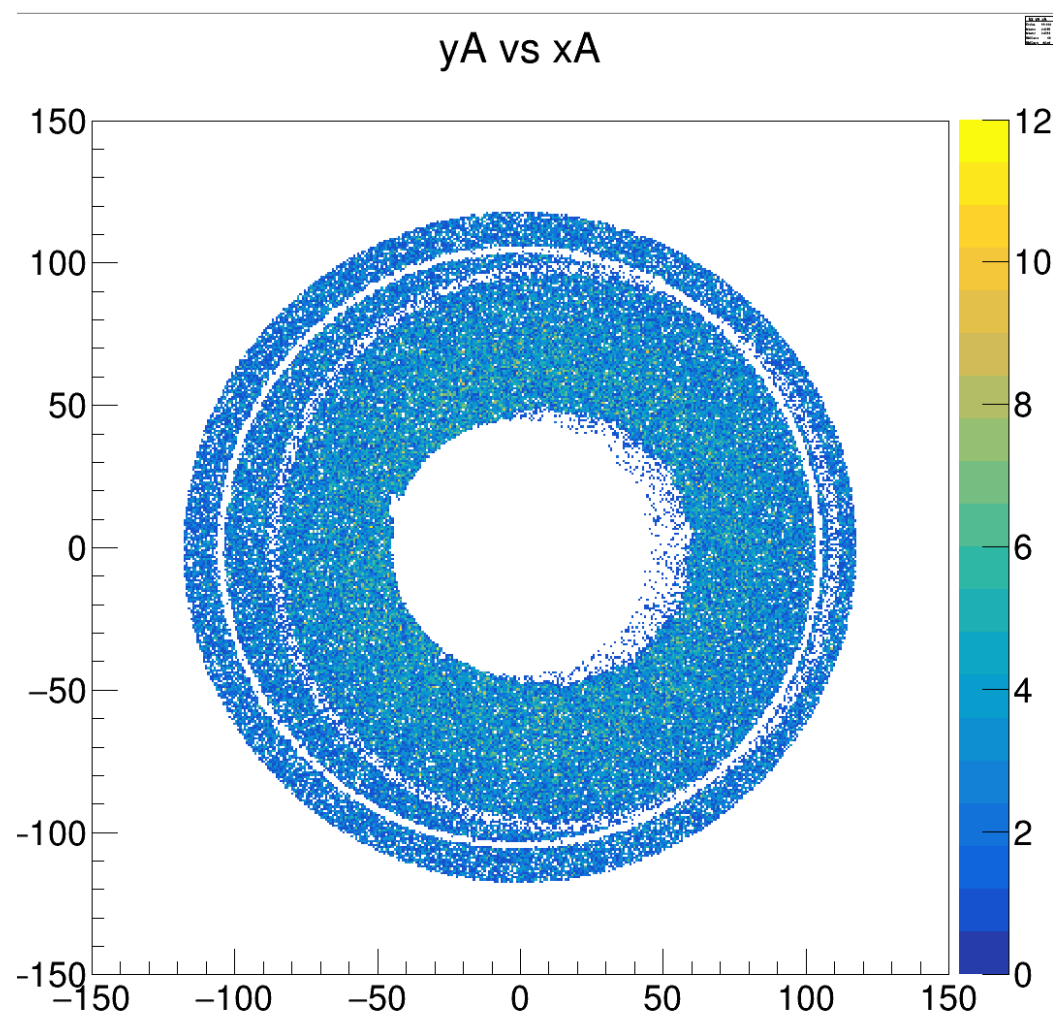
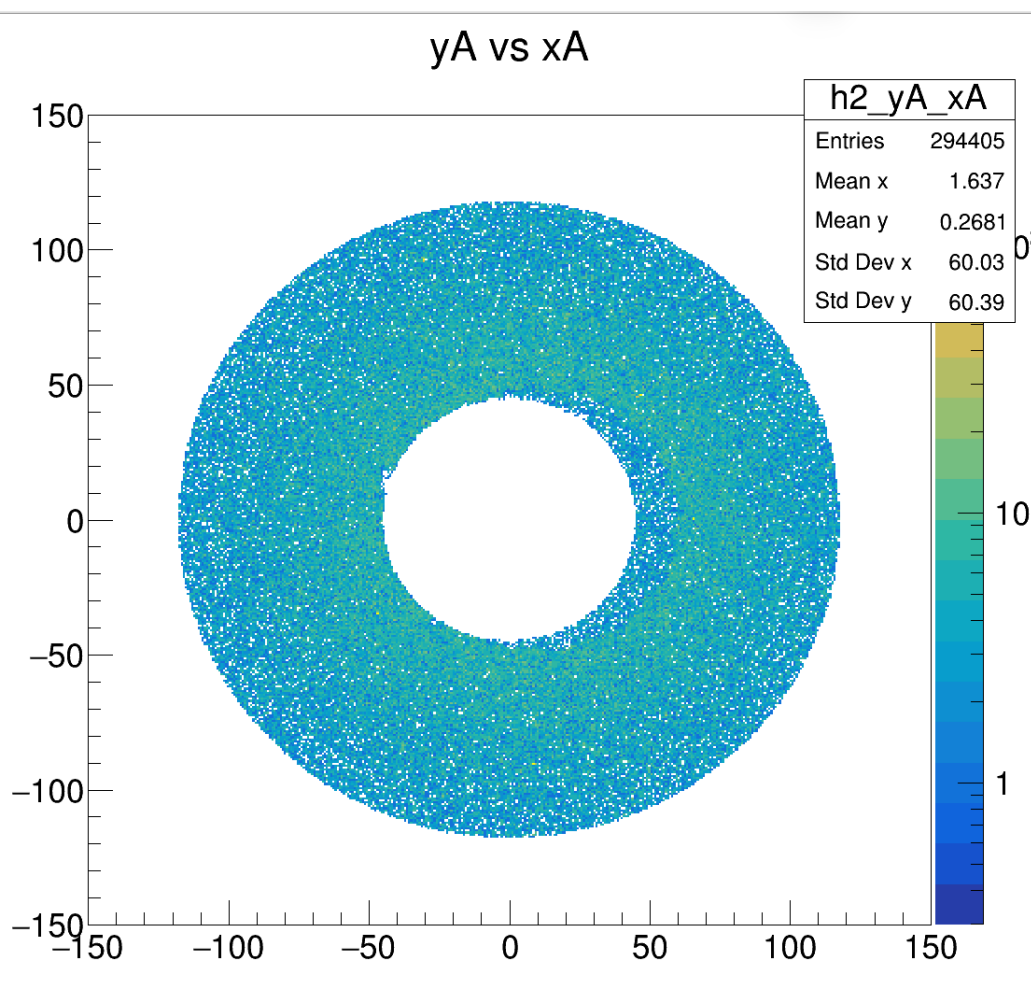


Offline skim
(mu mu)



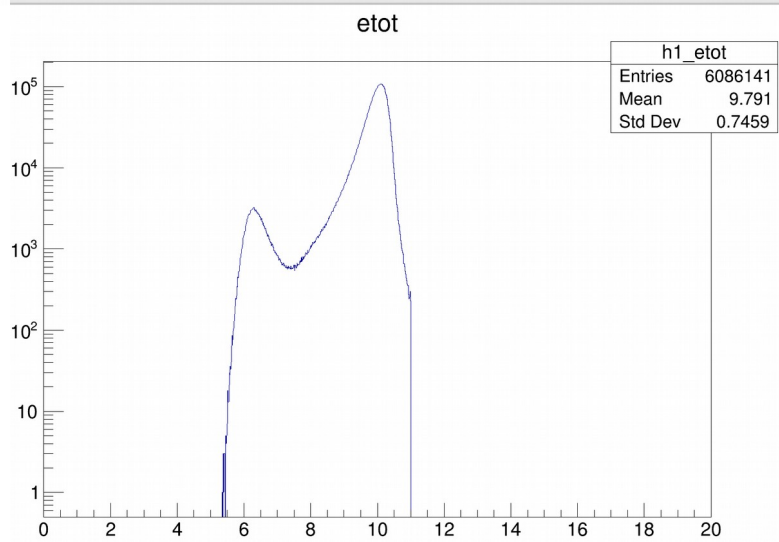
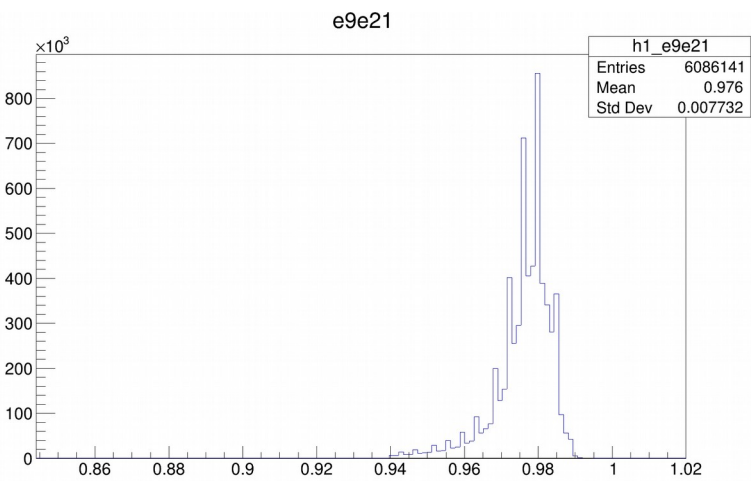
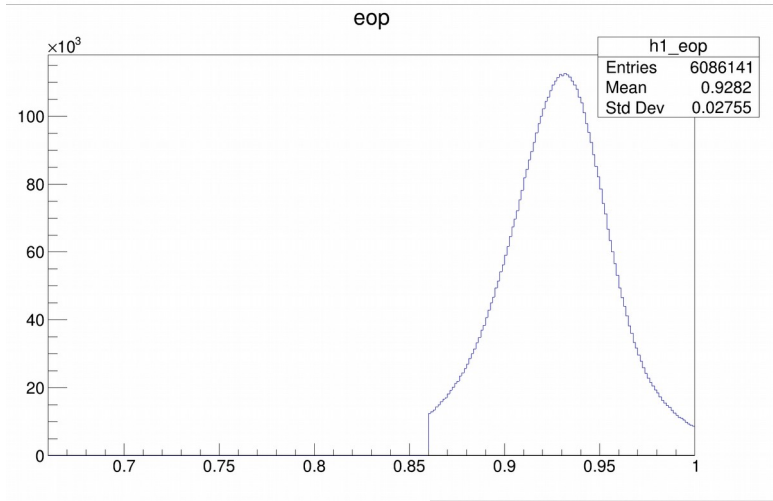
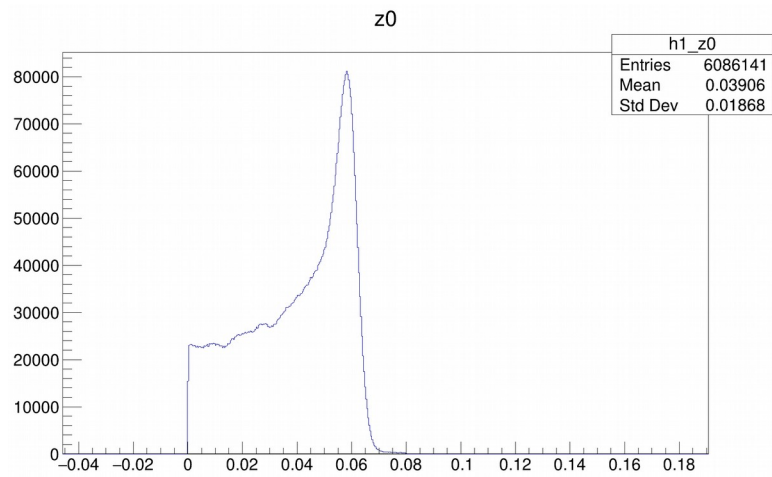
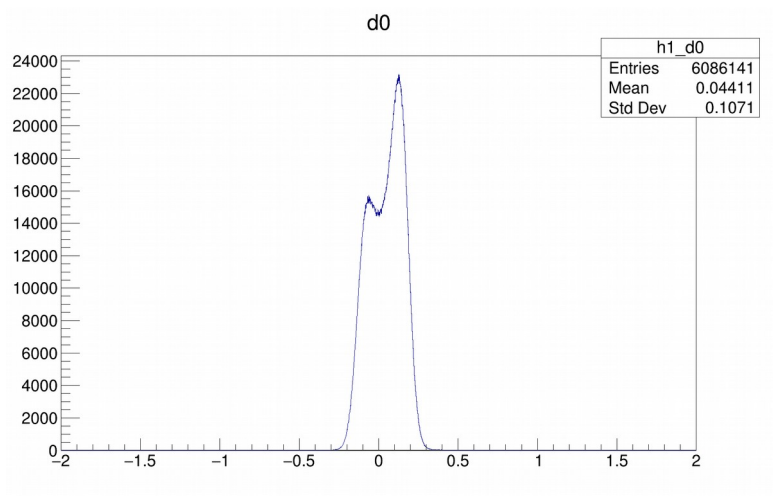
Mu mu signal MC

Applying same caut
as in off-line skim
for the signal

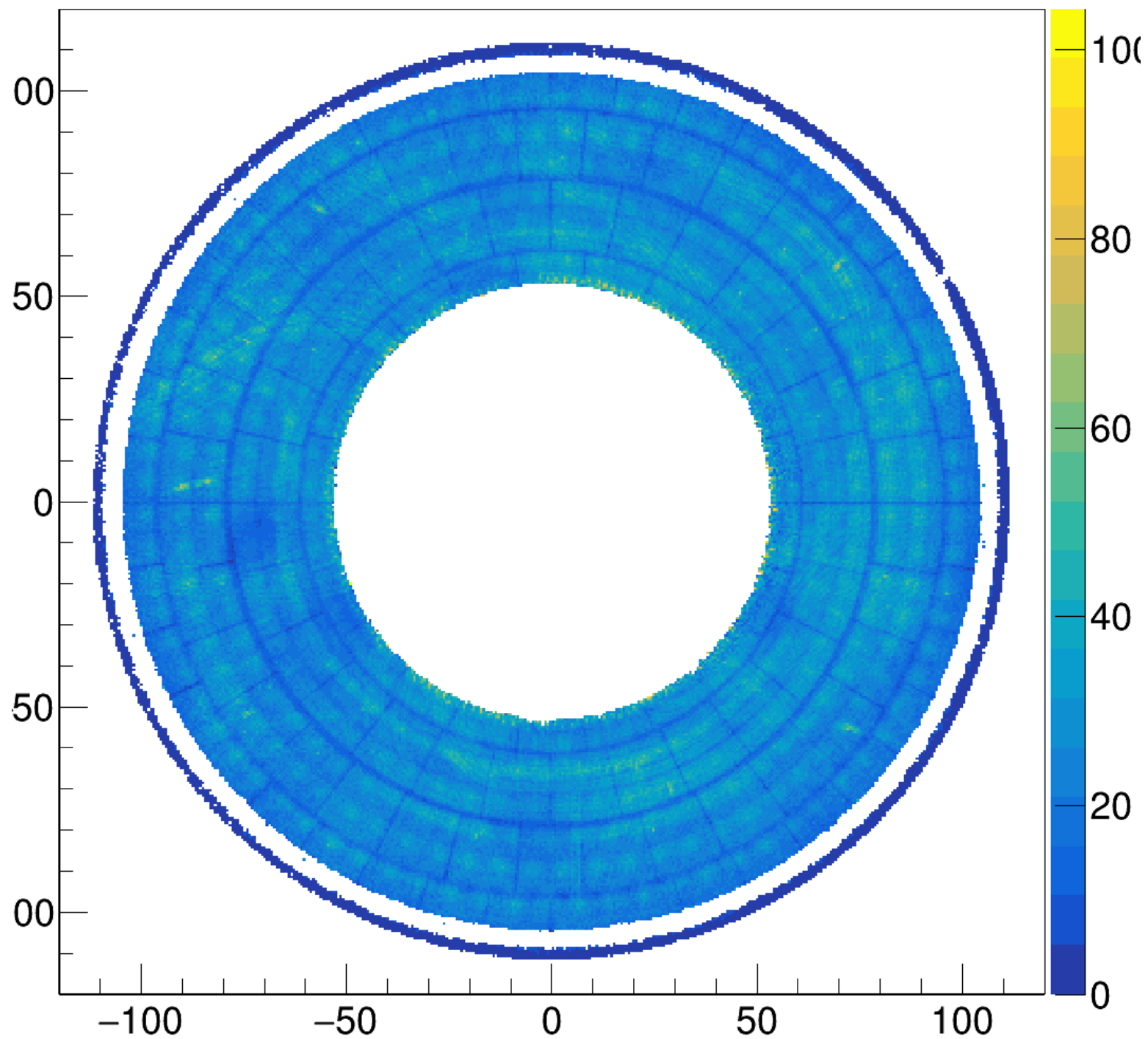


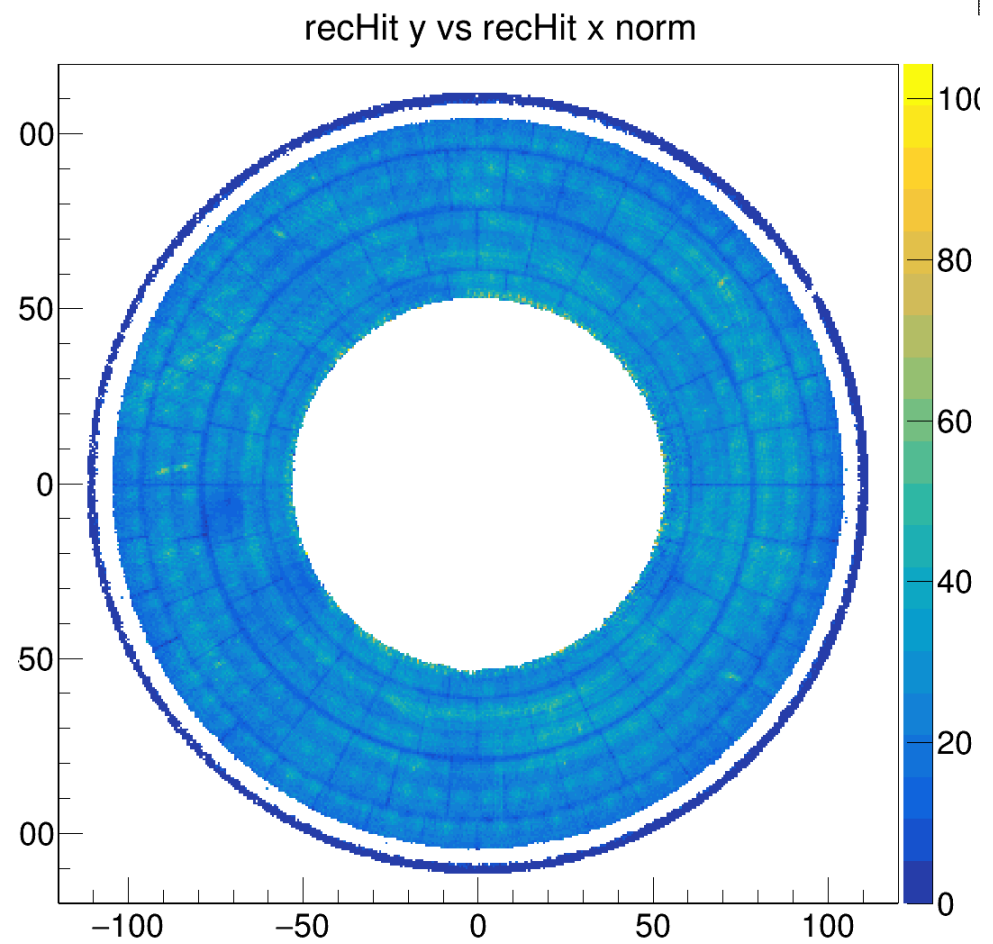
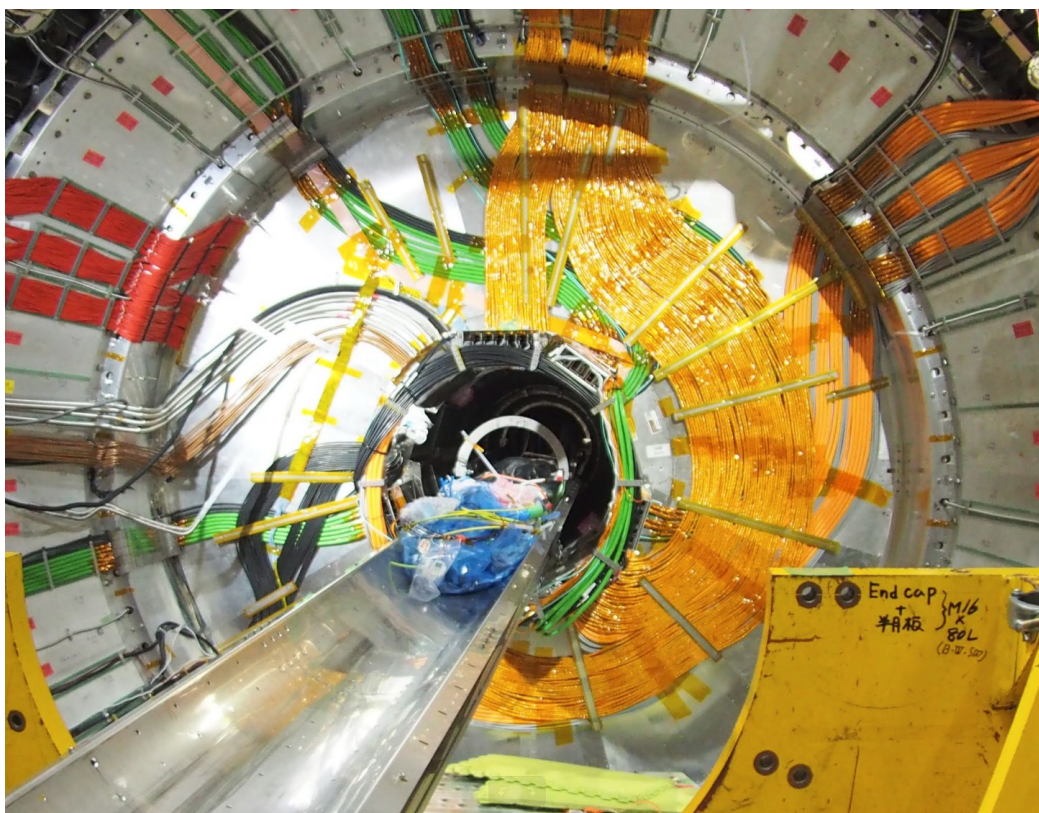
Reason : we identify both muon with eop information. When forward muon enters “dead” region backward muon enters the gap between barrel and backward calorimeter. The muon muon events are like this on skim level – can not fulfill the dead region.

Use the data from hlt bhabha ecl ...

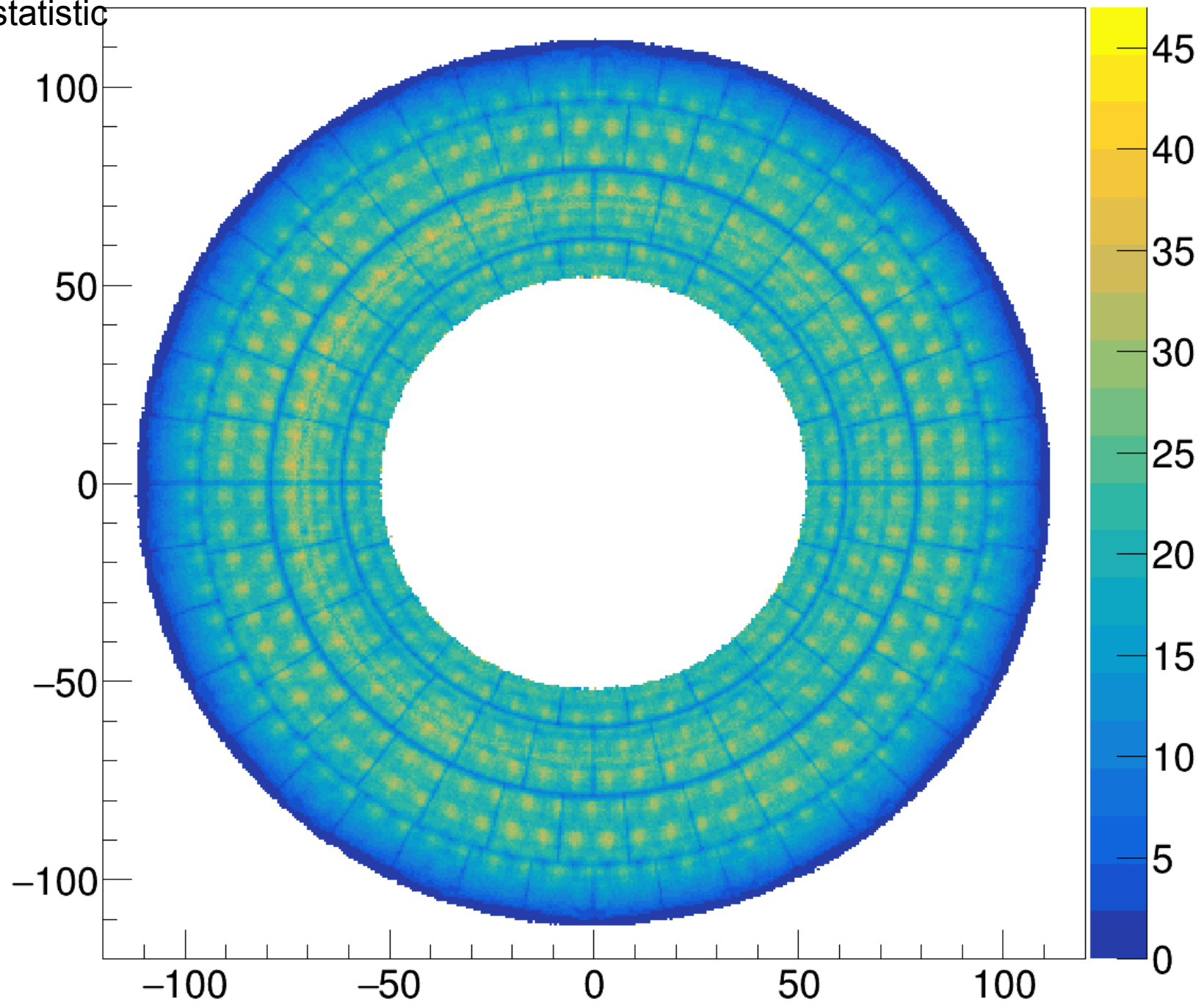


rechHit y vs rechHit x norm



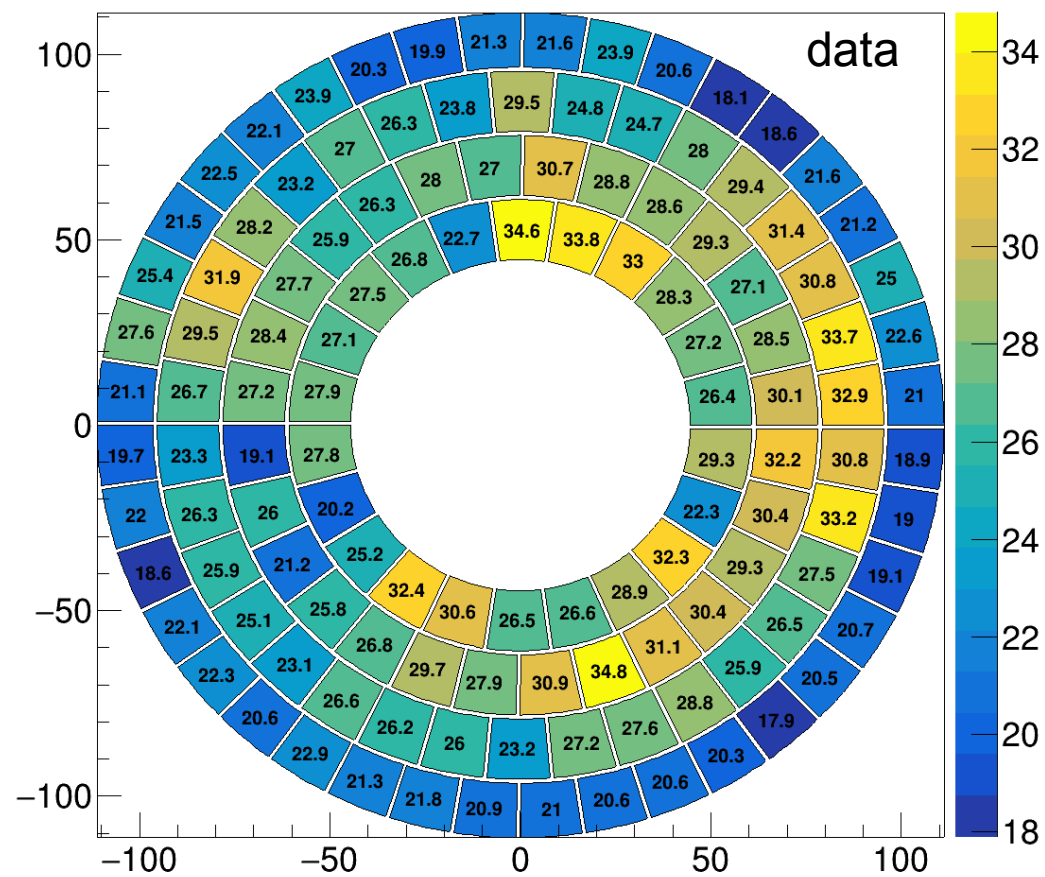


Simulation with
same statistic

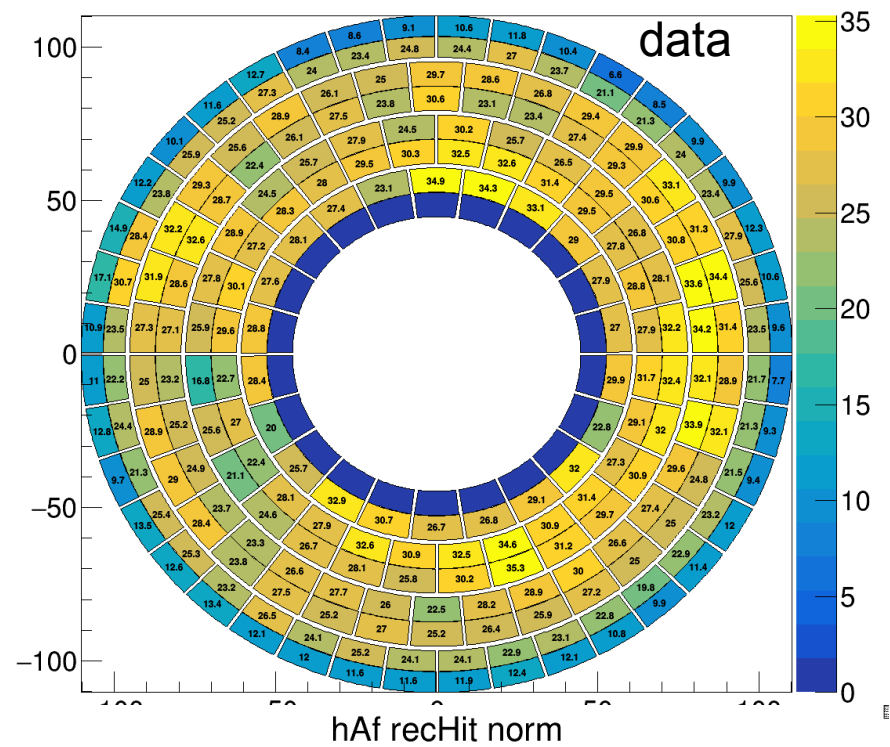


Global alignment

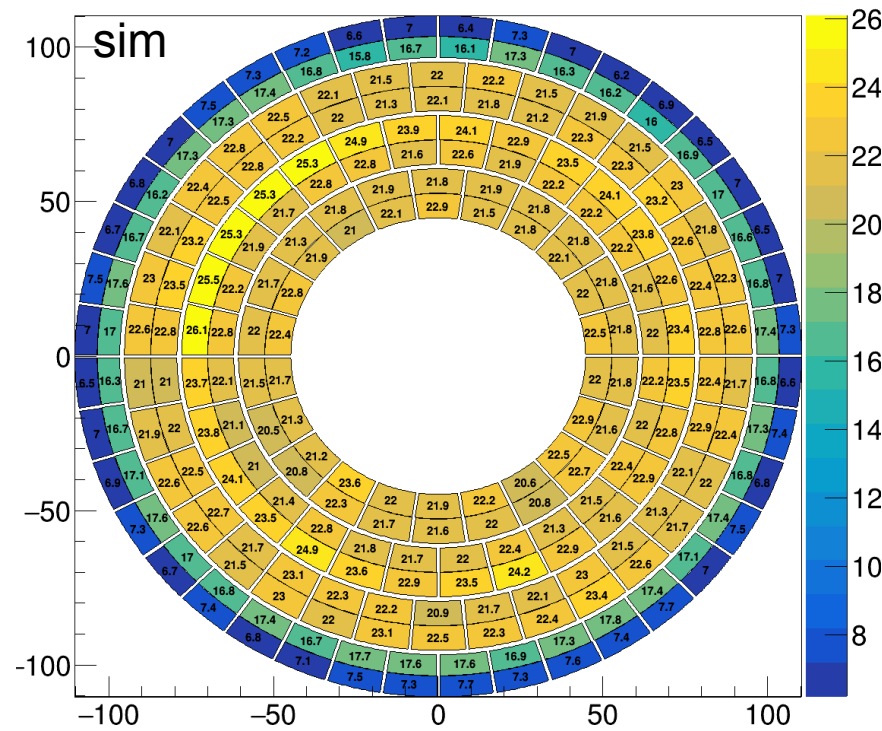
recHit_norm



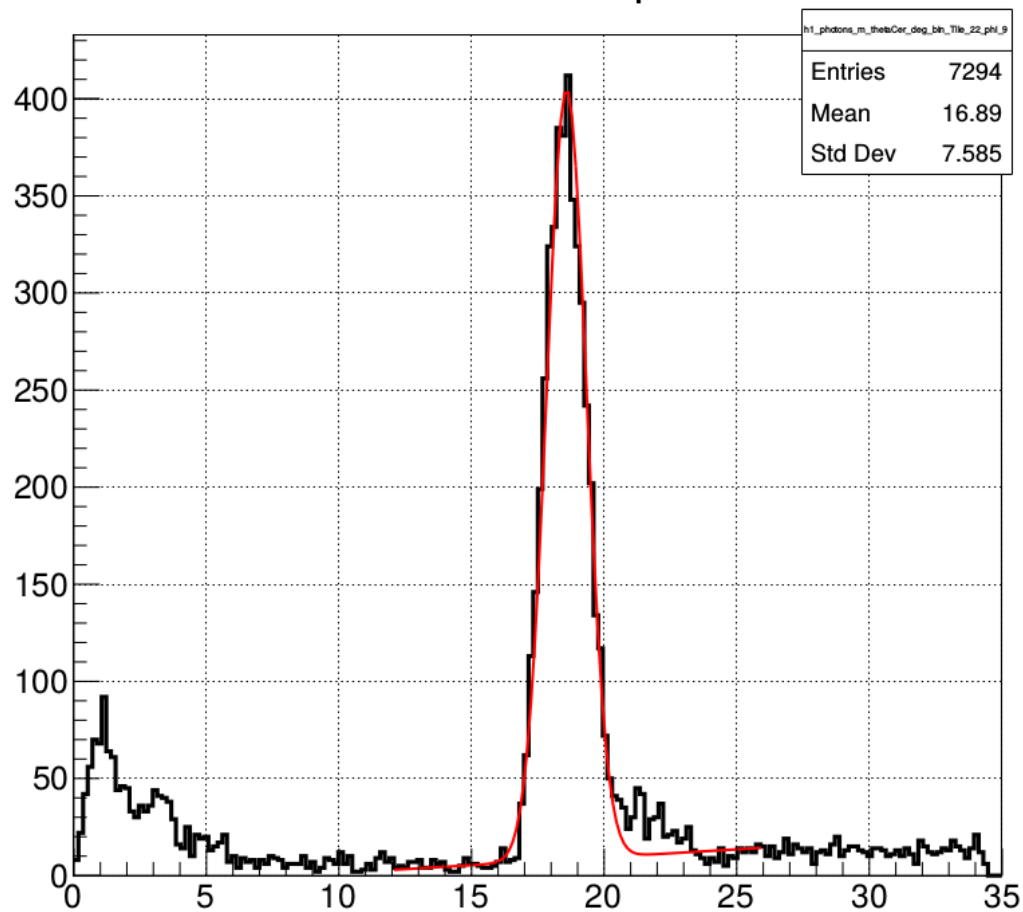
hAf recHit norm



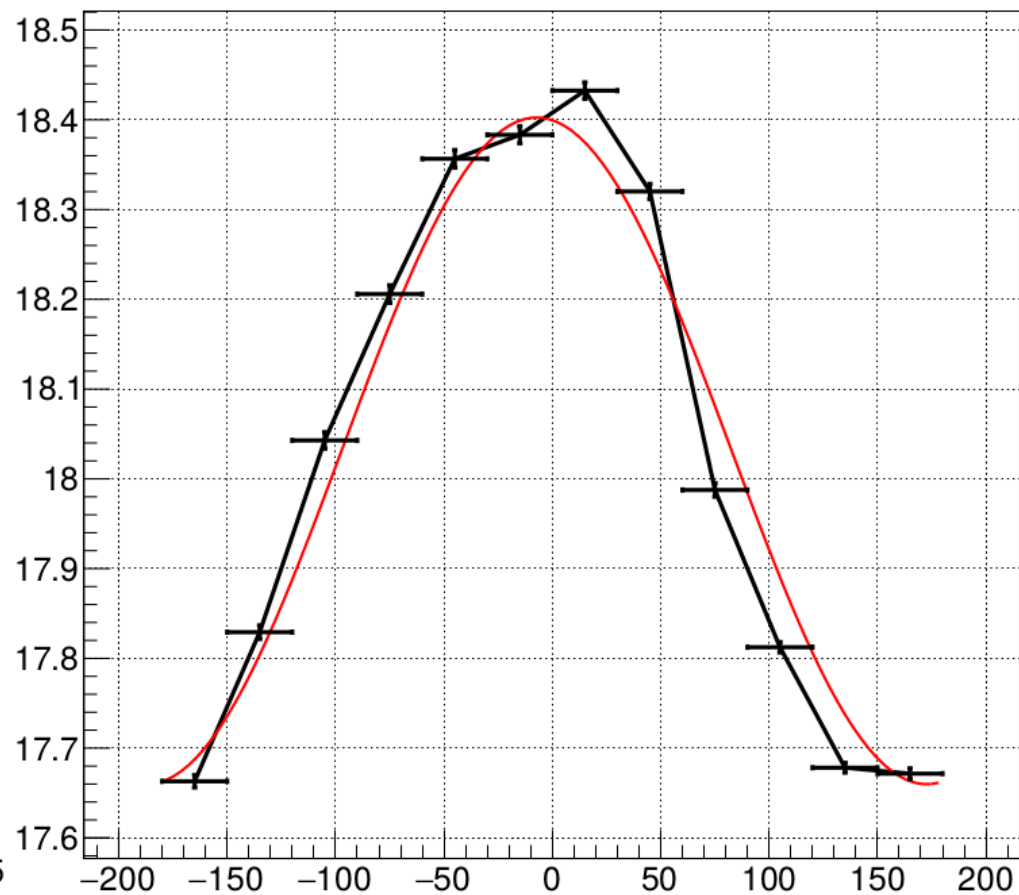
hAf recHit norm



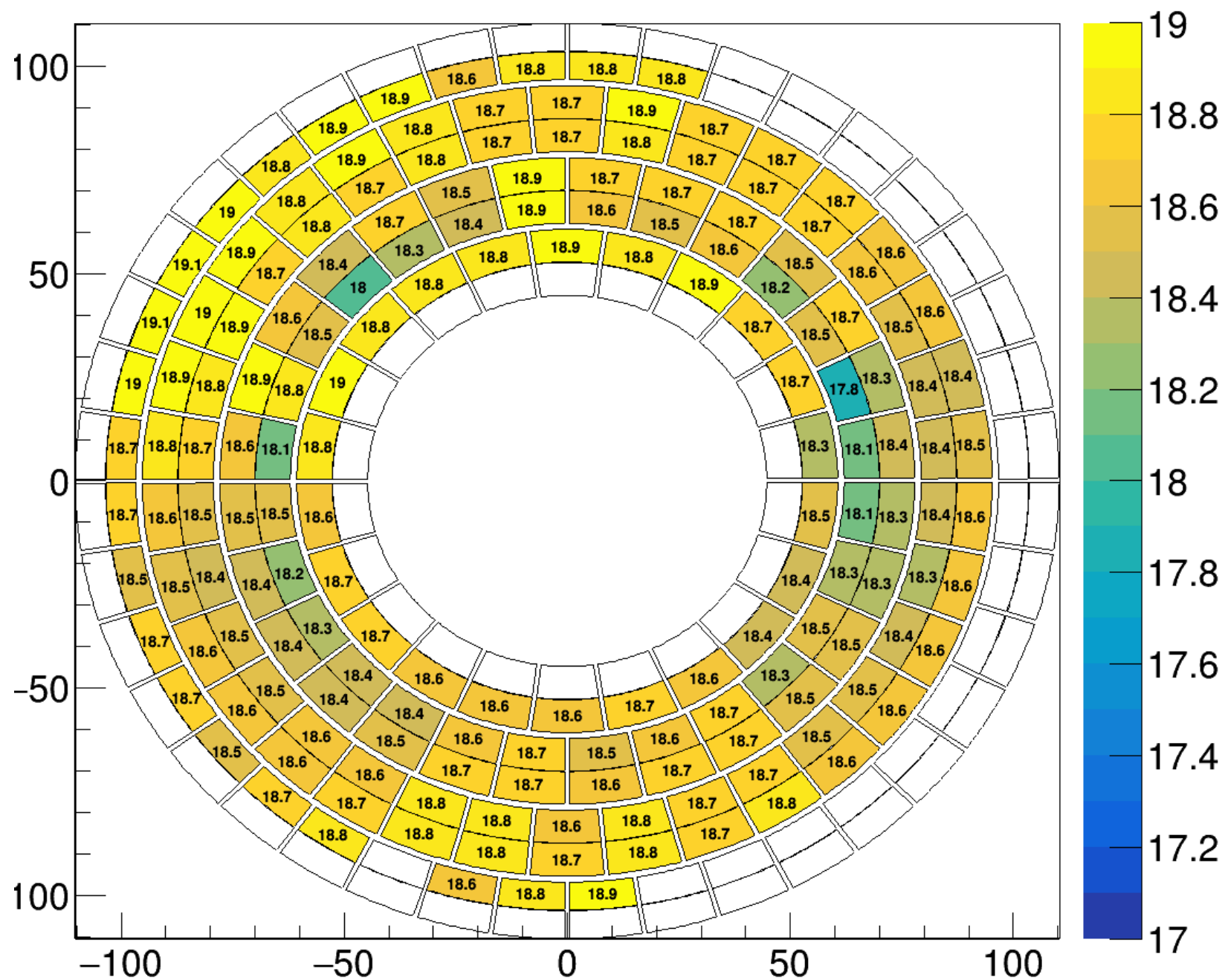
thetaCer Tile 22 phi 9



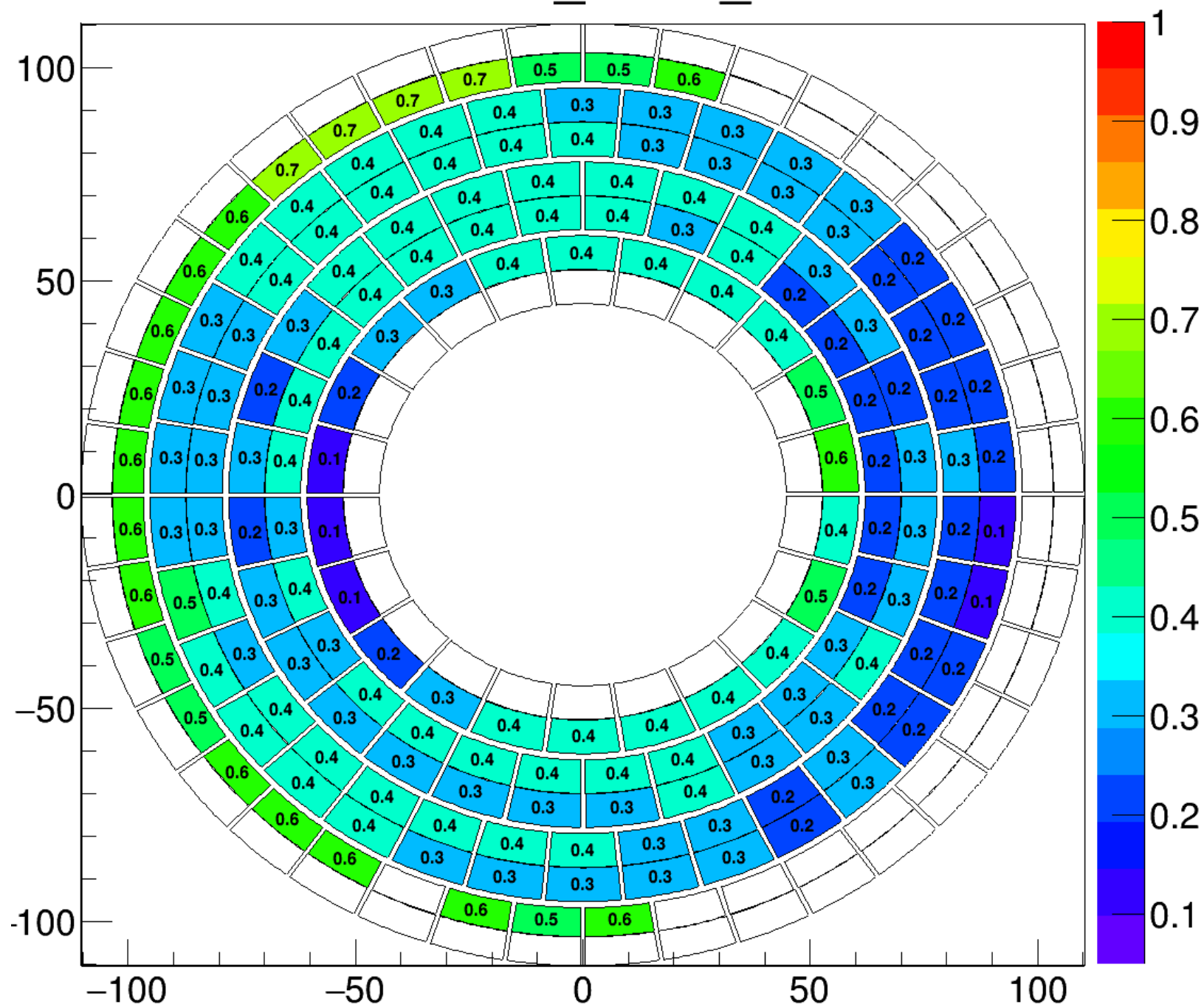
gr_thetaCer_deg_vs_phiCer_deg_Tile_54

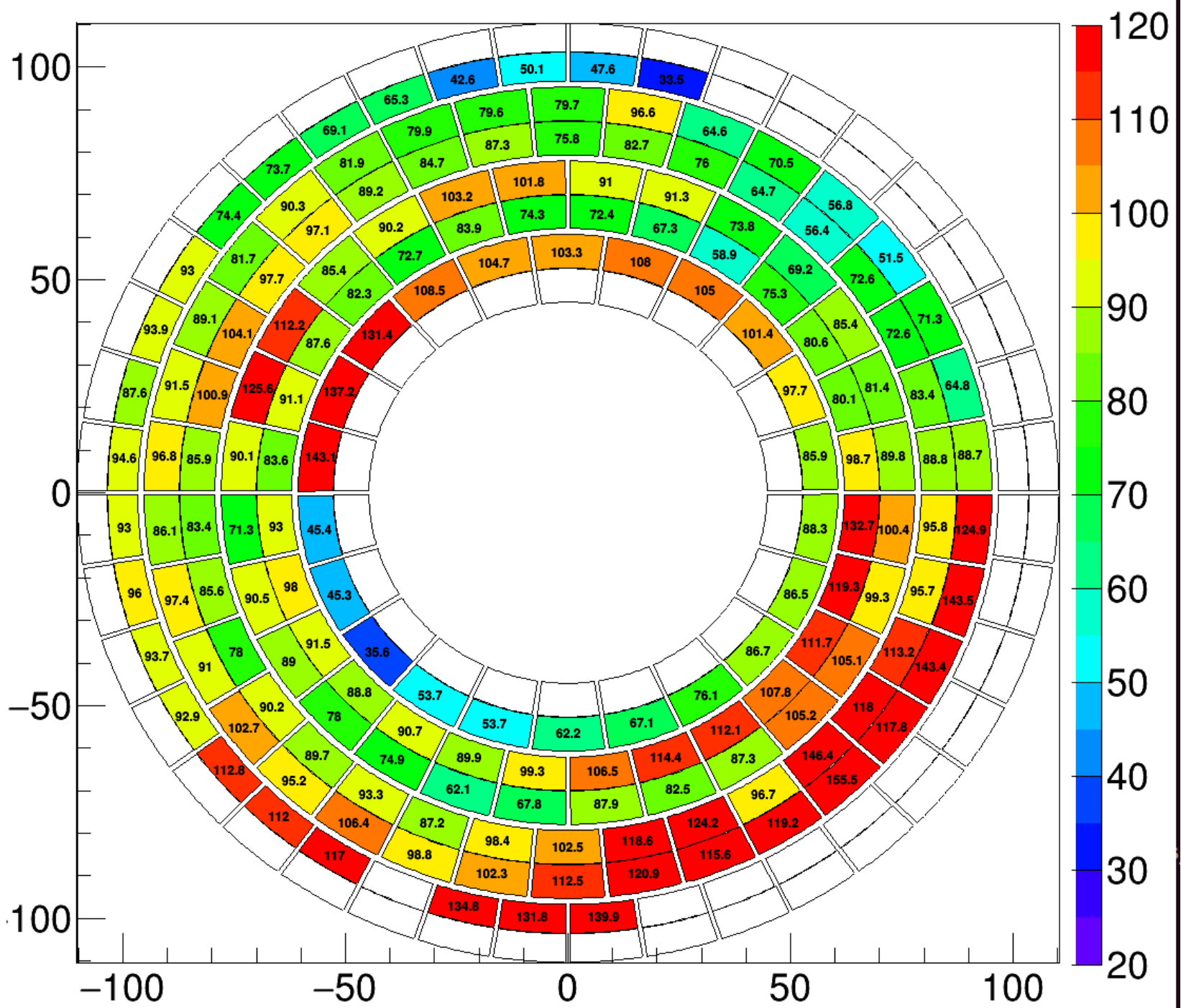


hAf_fitCos_th_ch



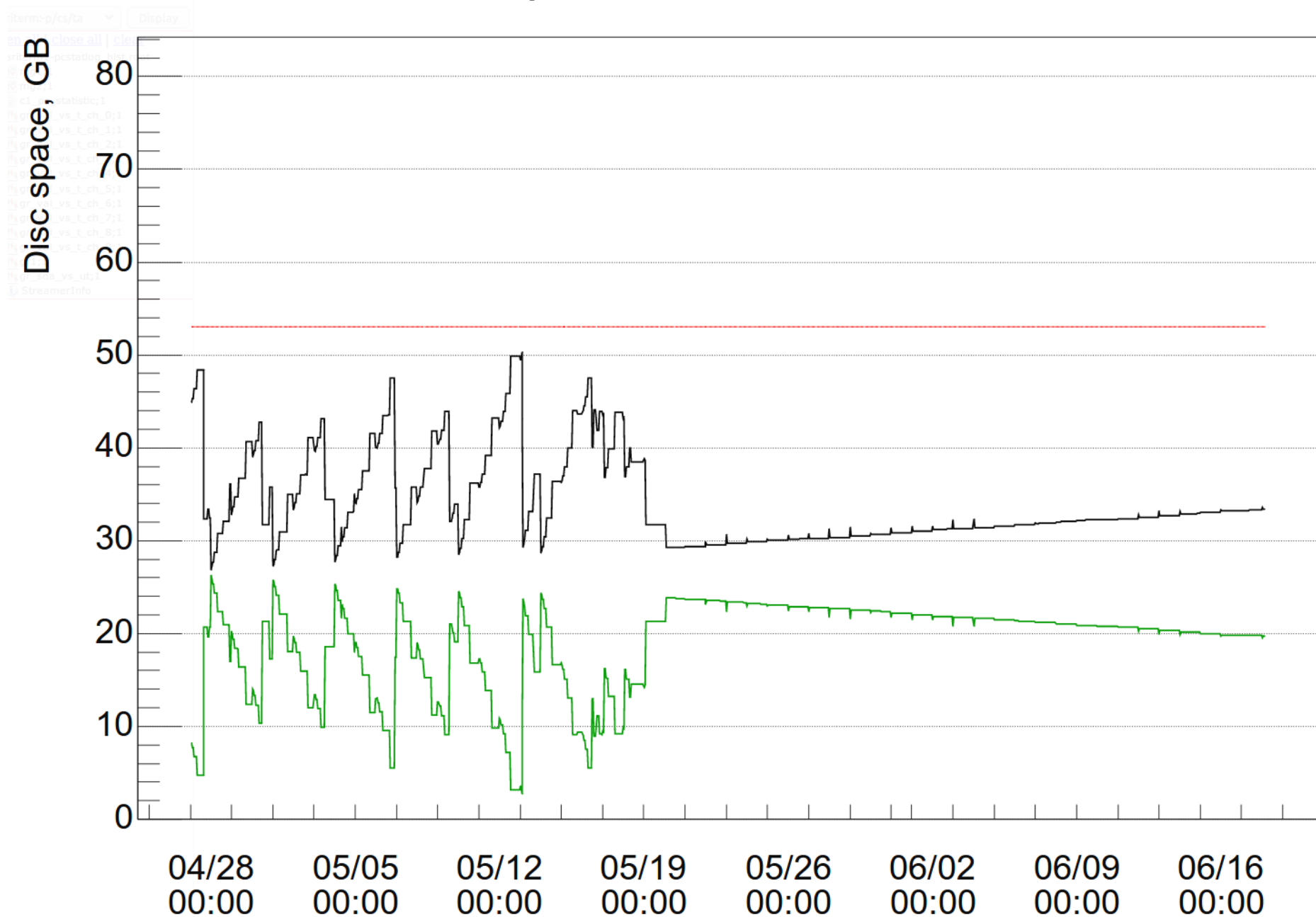
hAf_fitCos_A





Slow control ARICH PC's

Disc space : /home/hvala, GB



Used memory, MB

