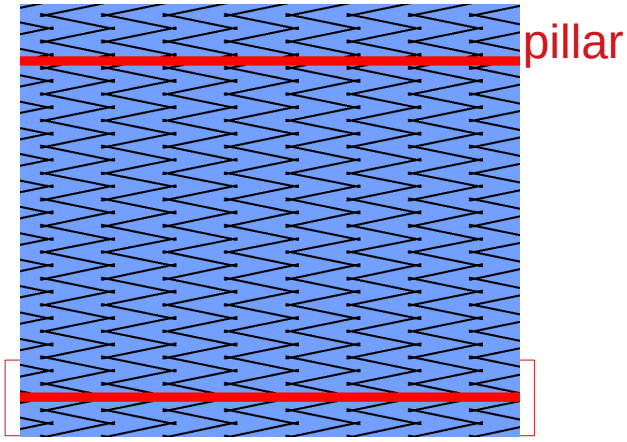
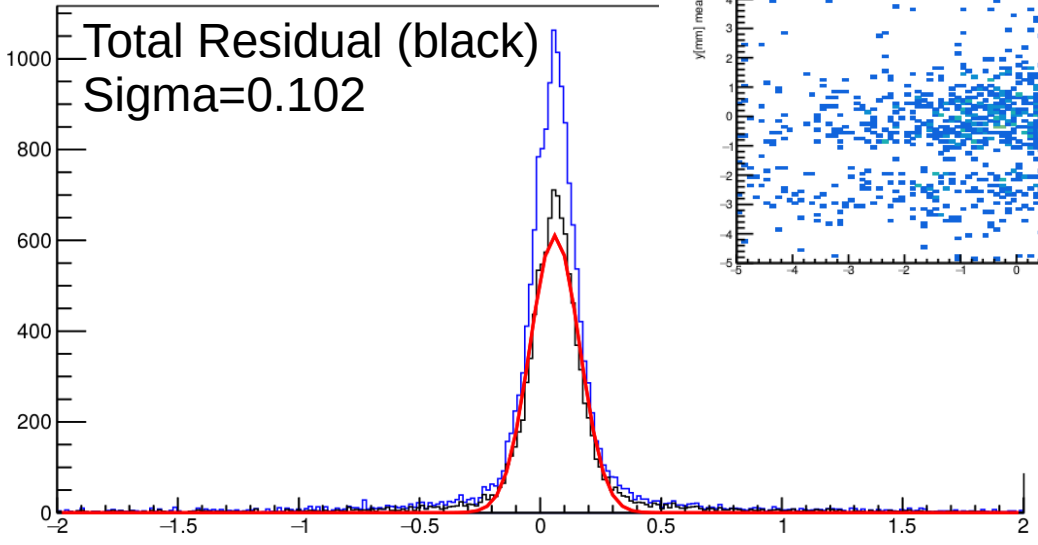
Residual as a function of the amplitude and pillar (y position) on a specific pattern

15 Nov. 2019

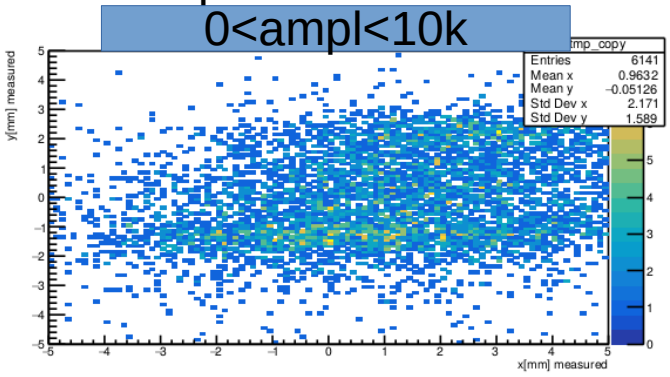
Maxence Revolle

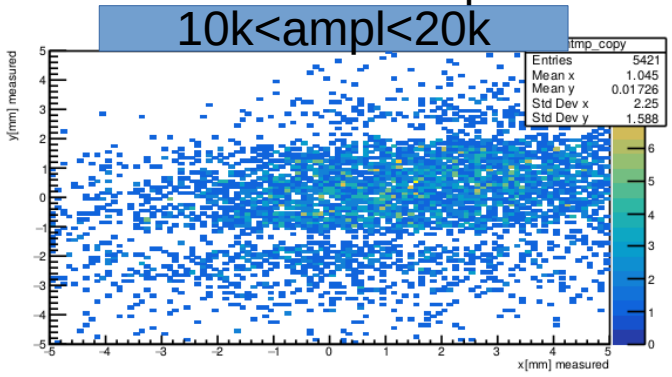
General overview of the area

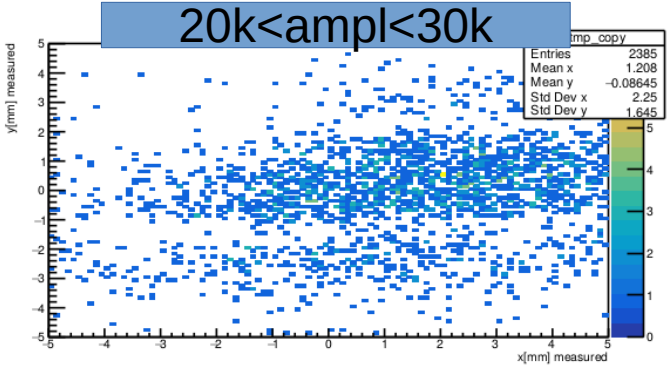


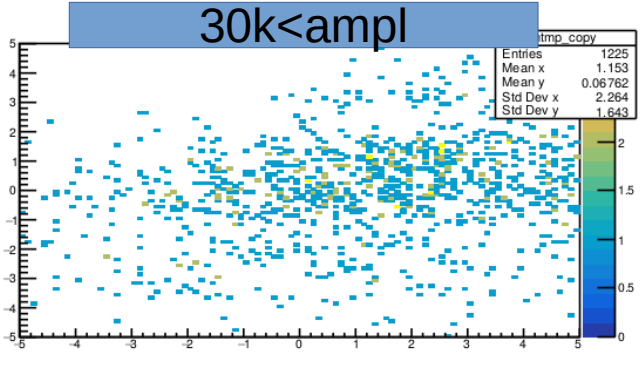


Beam profile Y-Si vs X-detector with fiducial cut in amplitude

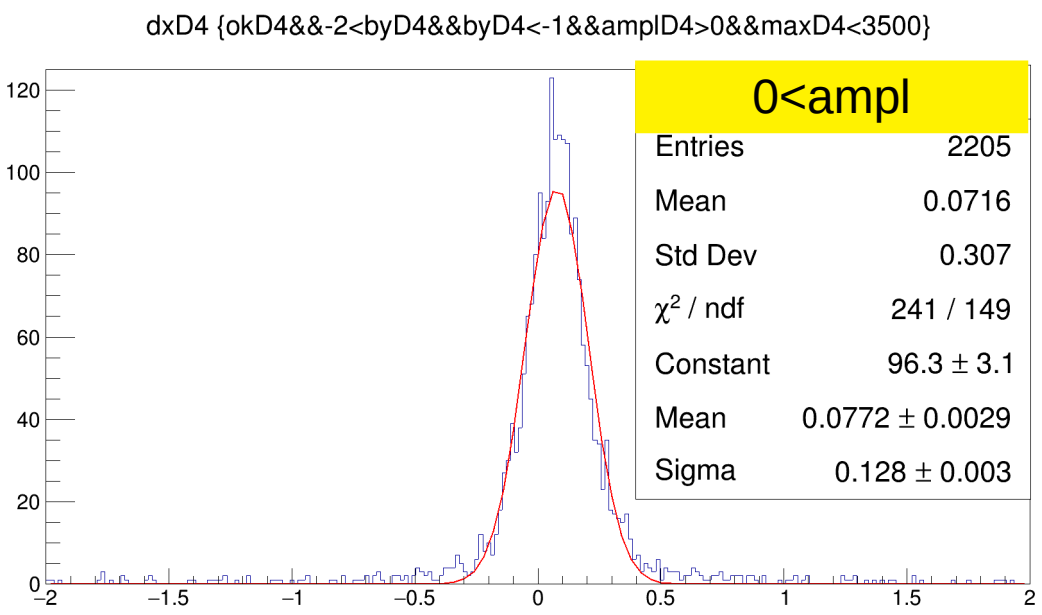


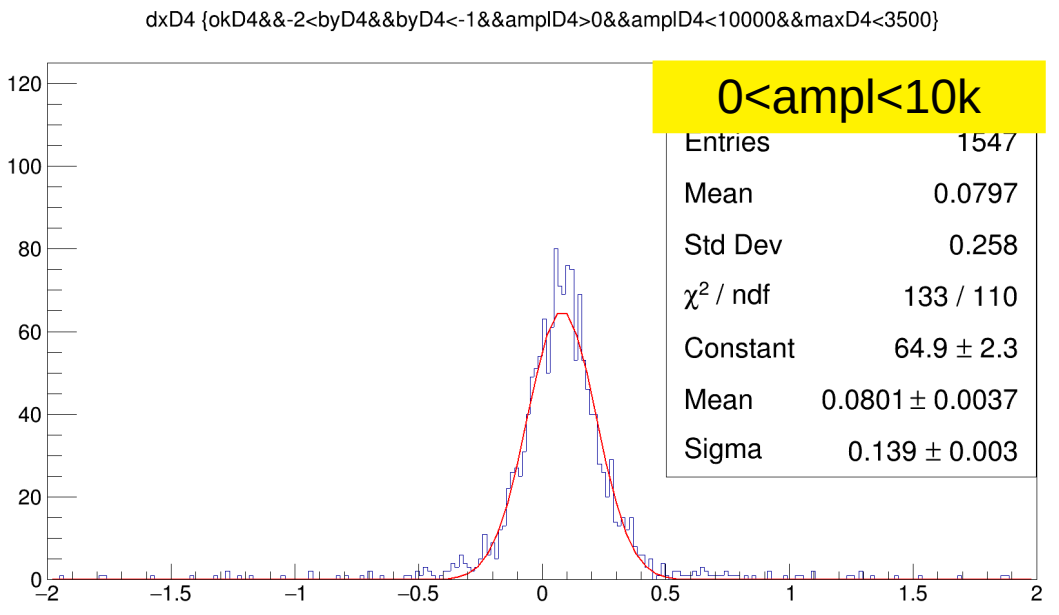


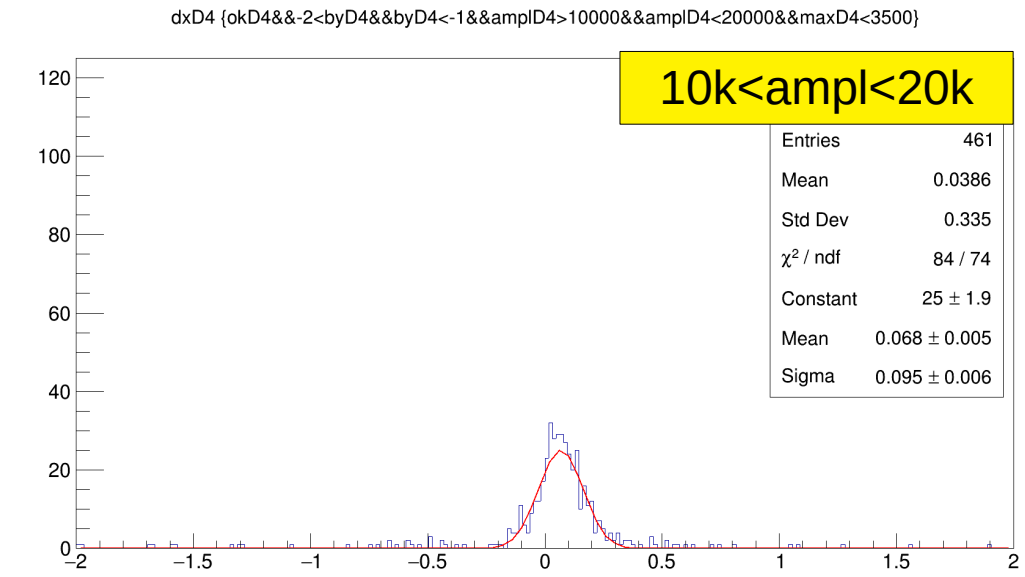




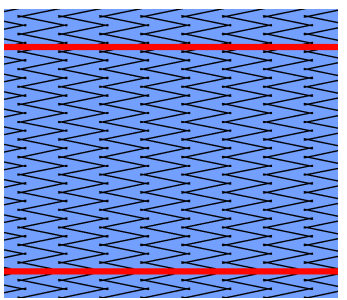
Run 1505
(Blue on final plot)

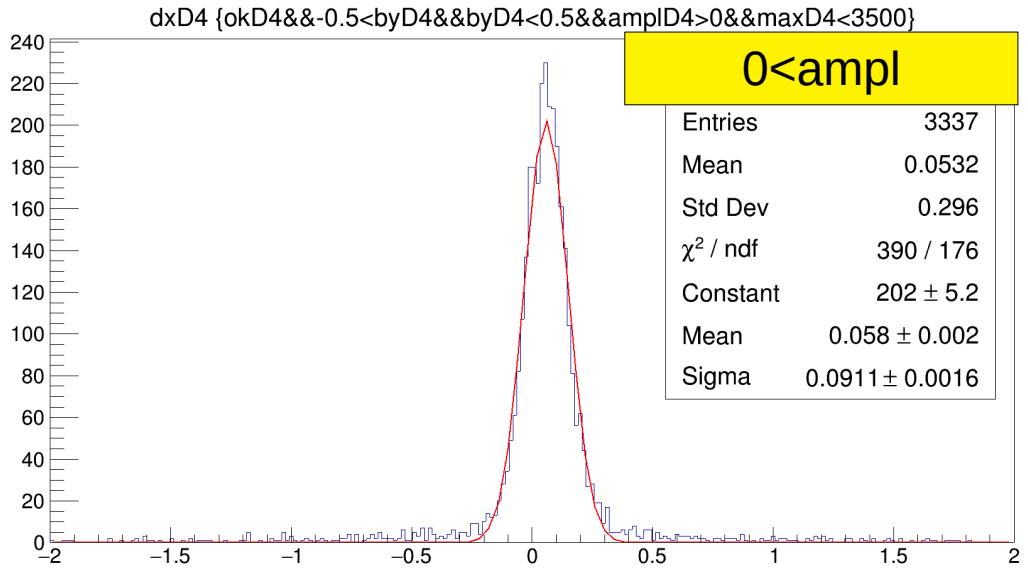


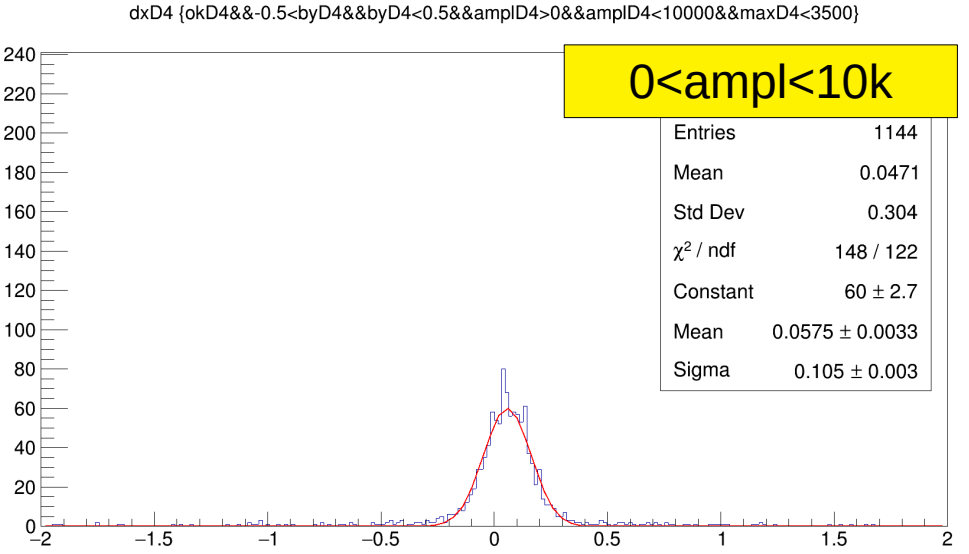


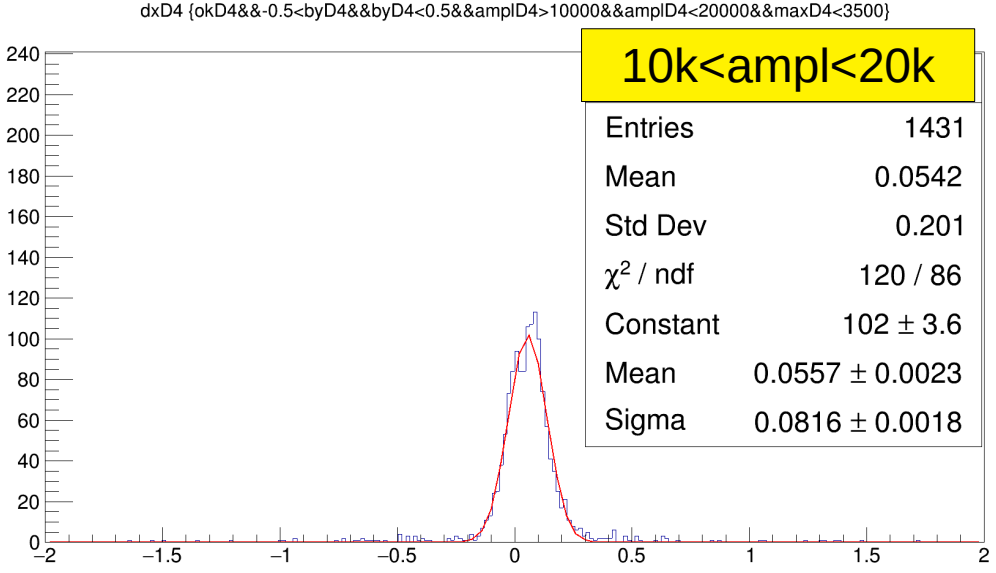


Residual on pillar
@1mm

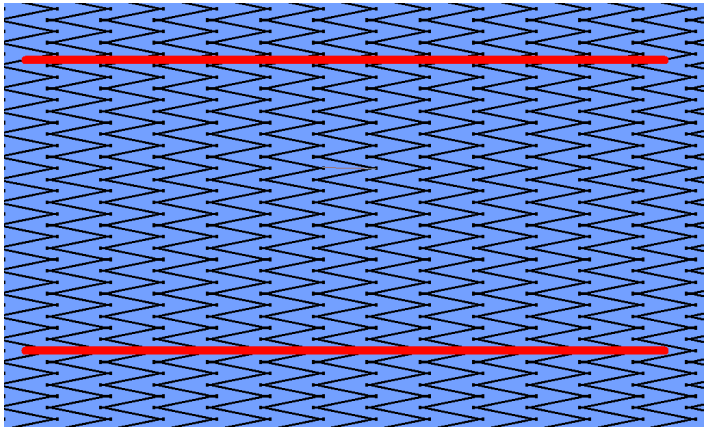




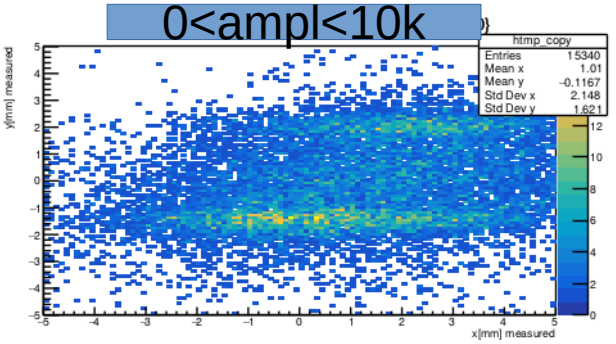


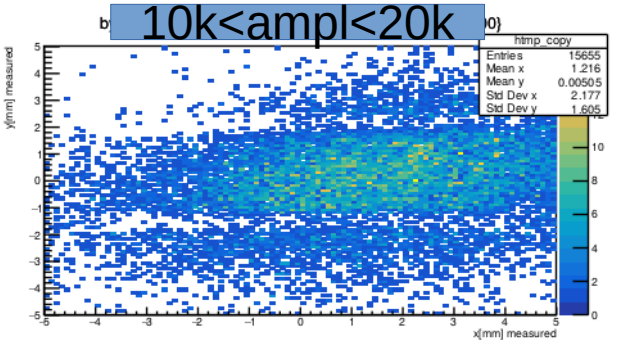


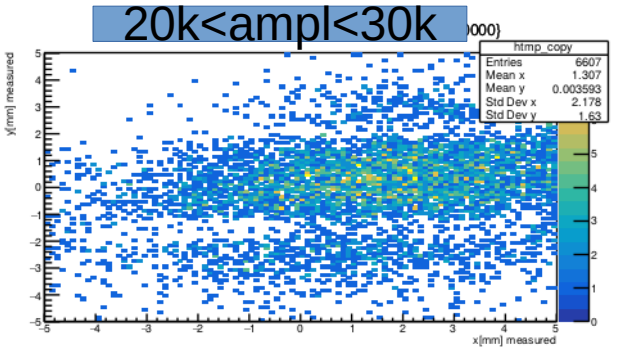
Residual between pillar
@1mm

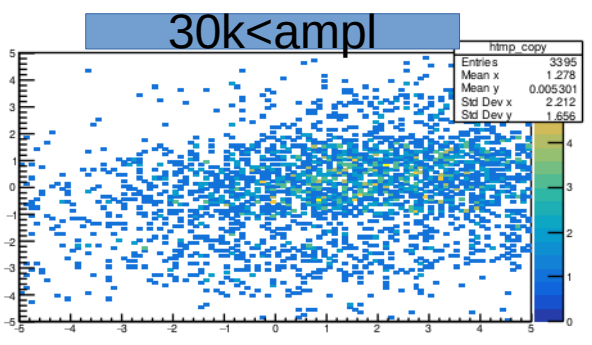


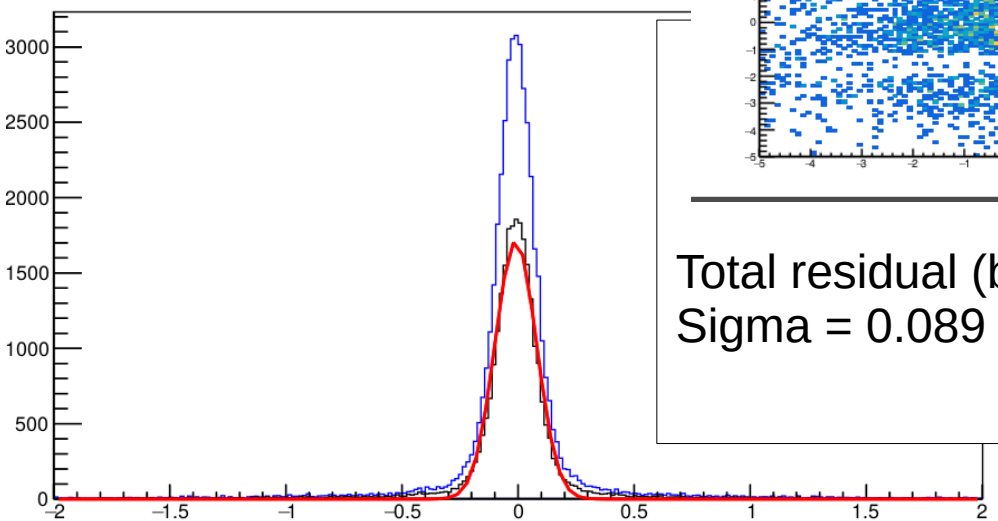
Beam profile Y-Si vs X-detector with fiducial cut in amplitude







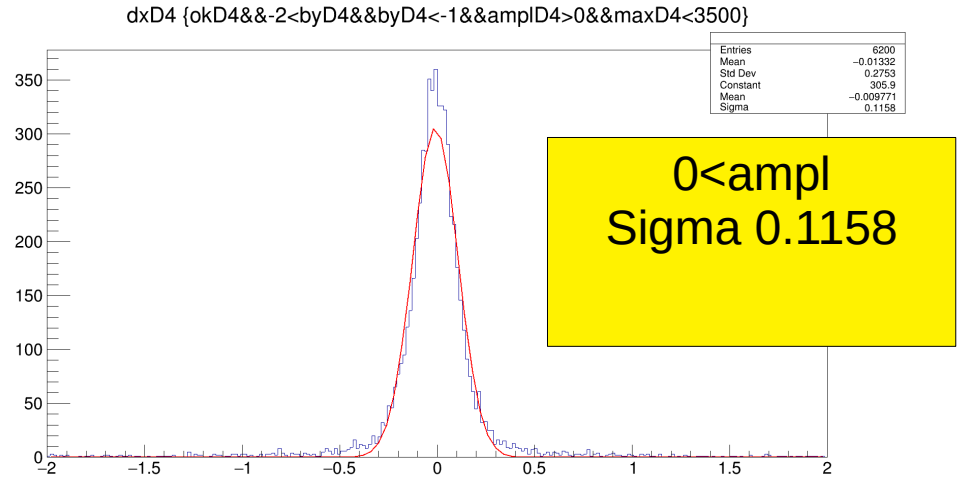


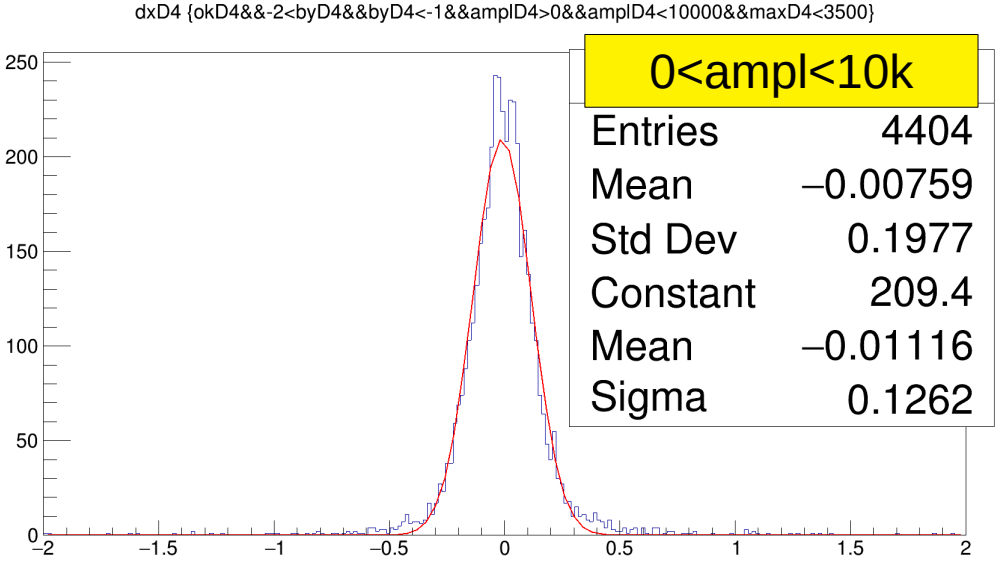


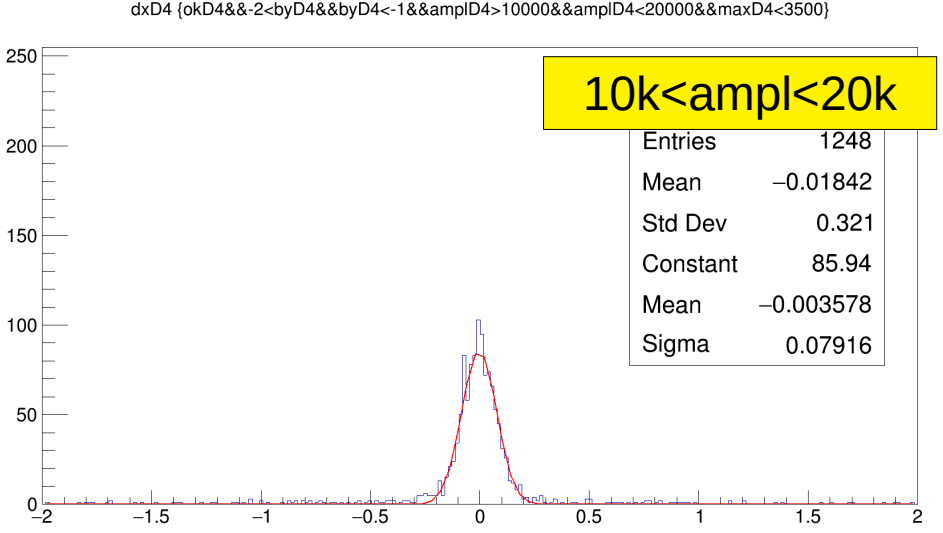
Total residual (black)
Sigma = 0.089

Run 1501 C2, pitch 0.6

(light blue on final plot)

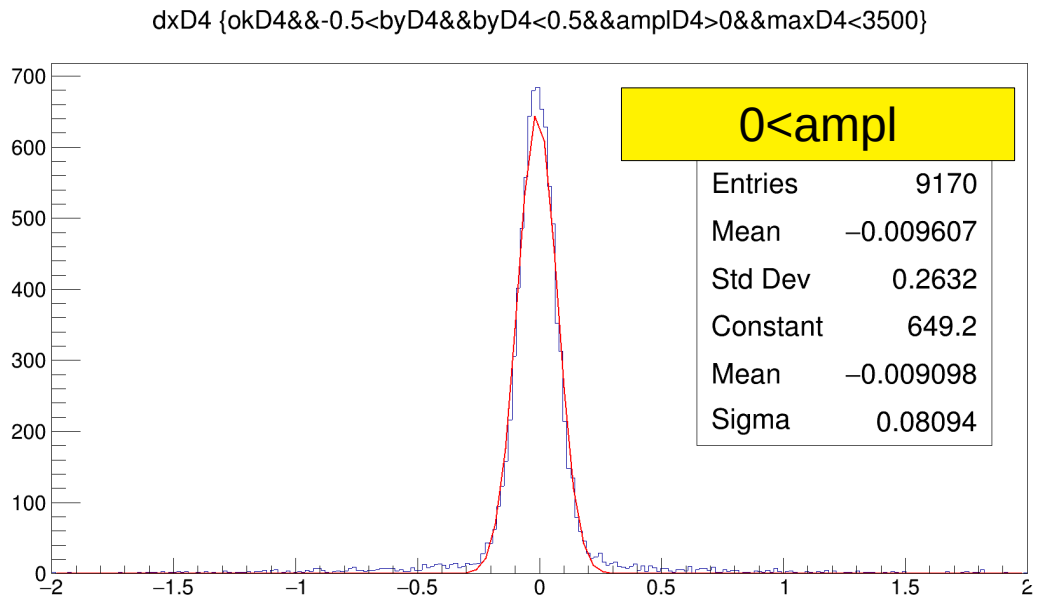


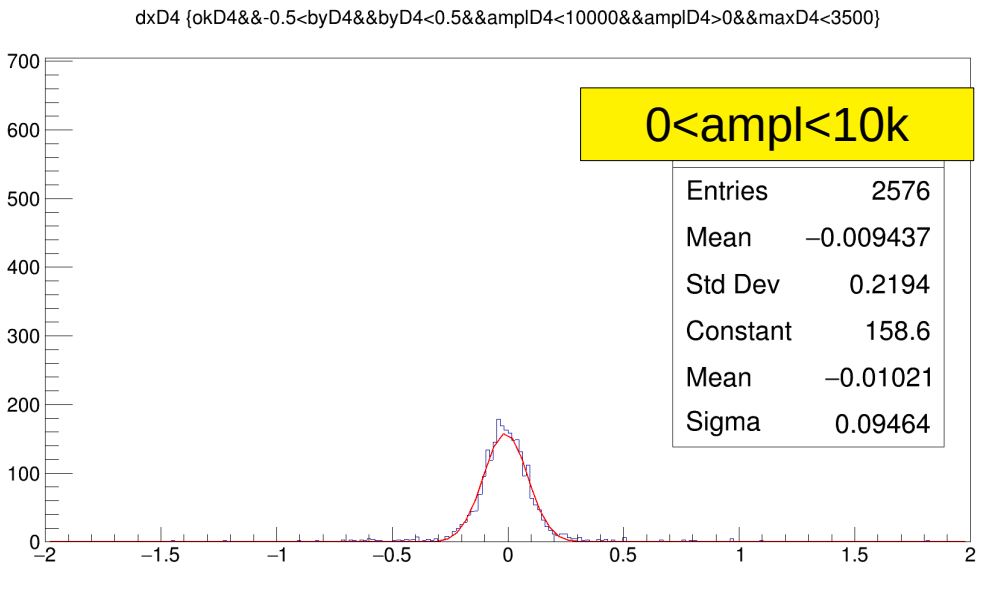


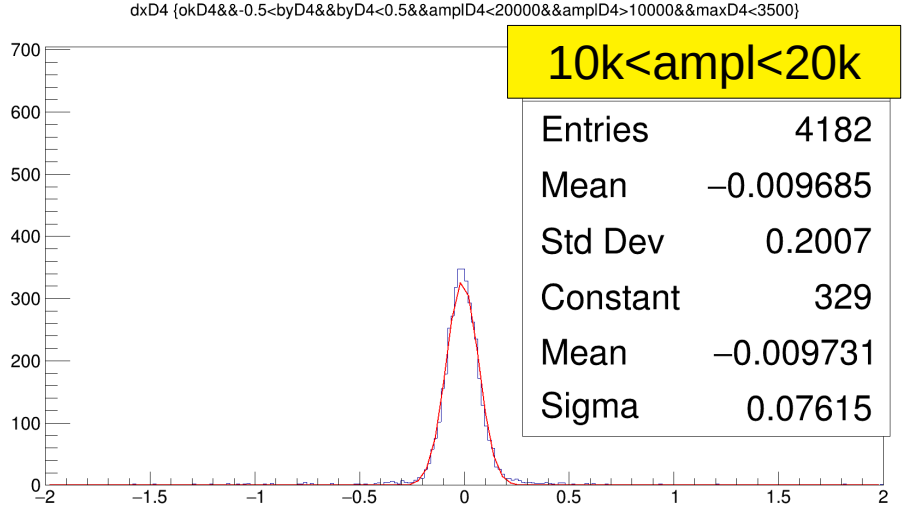


Run 1501 C2, pitch 0.6

On pillar



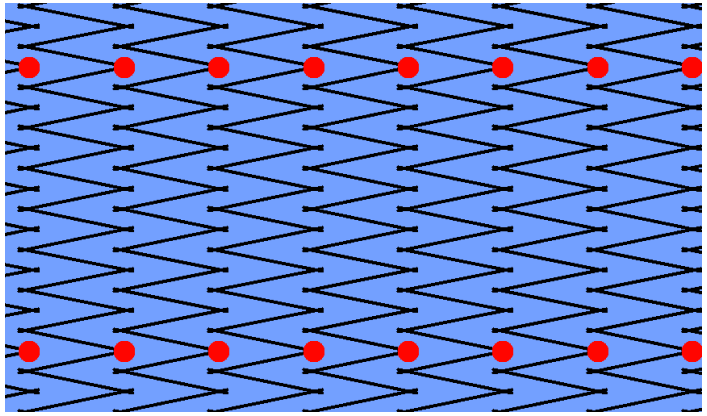


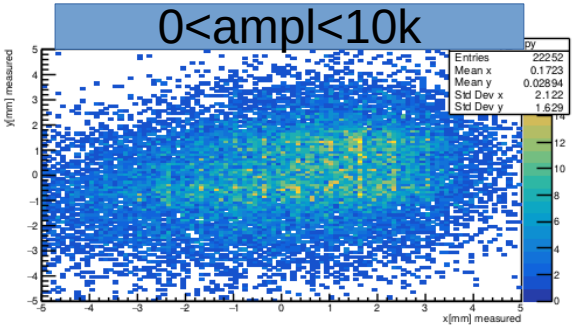


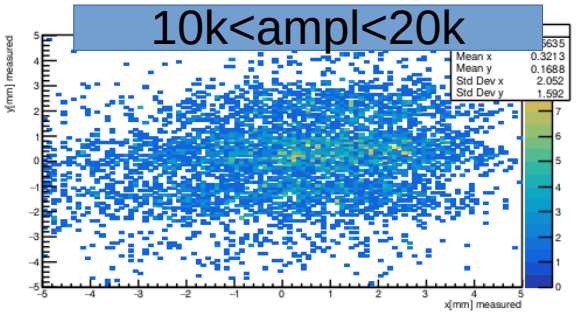
Run 1501 C2, pitch 0.6

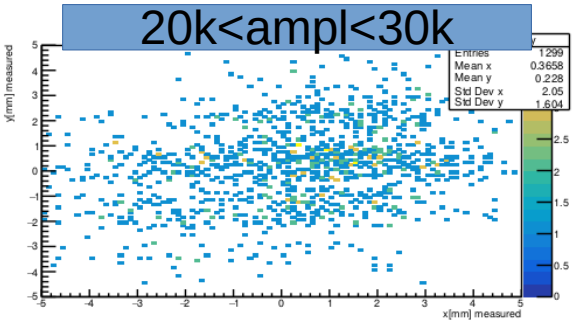
between pillar

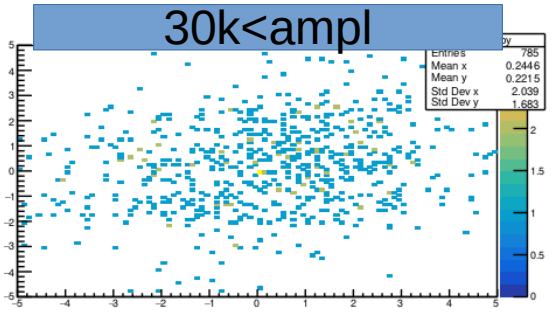
Beam profile Y-Si vs X-detector with fiducial cut in amplitude

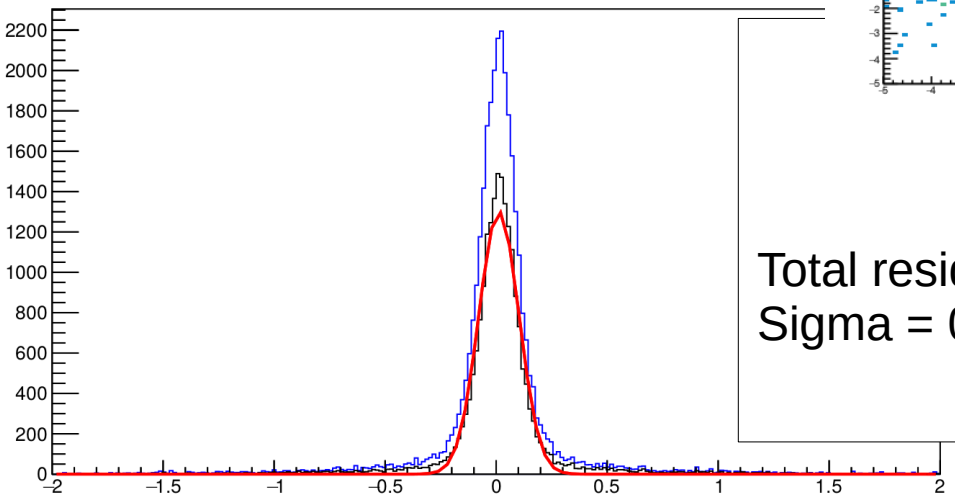








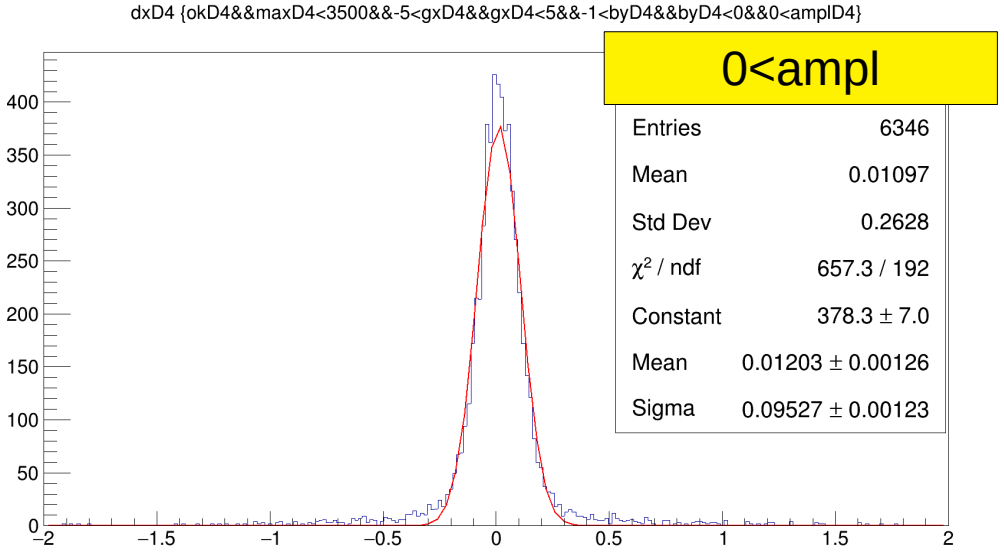


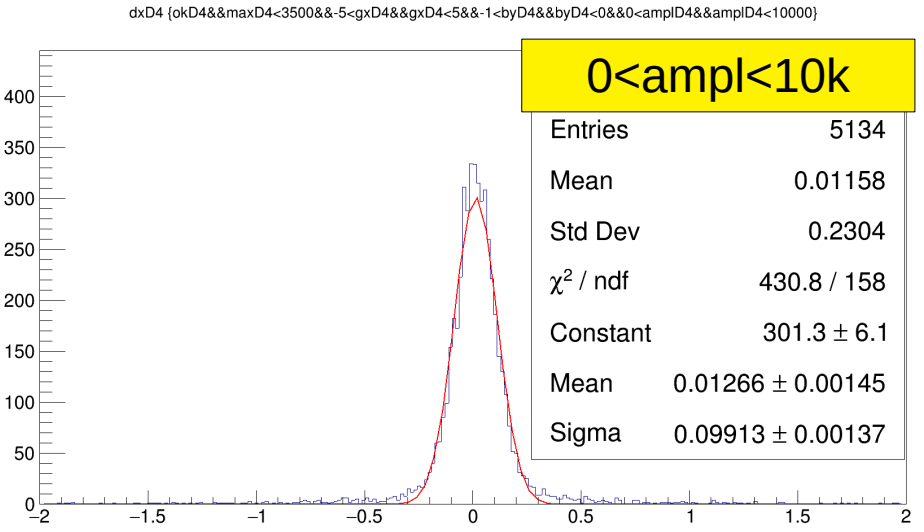


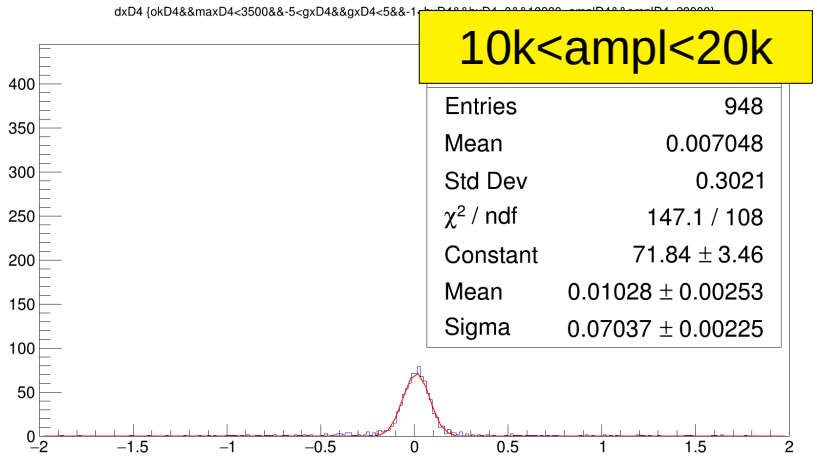
Total residual (black)
Sigma = 0.091

Run 1322, C1, .6mm pitch

(red on final plot)

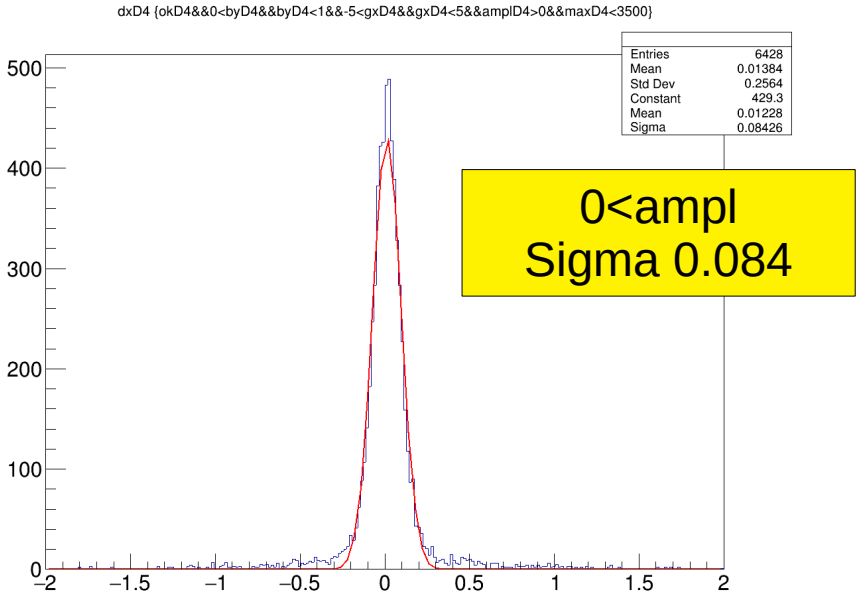


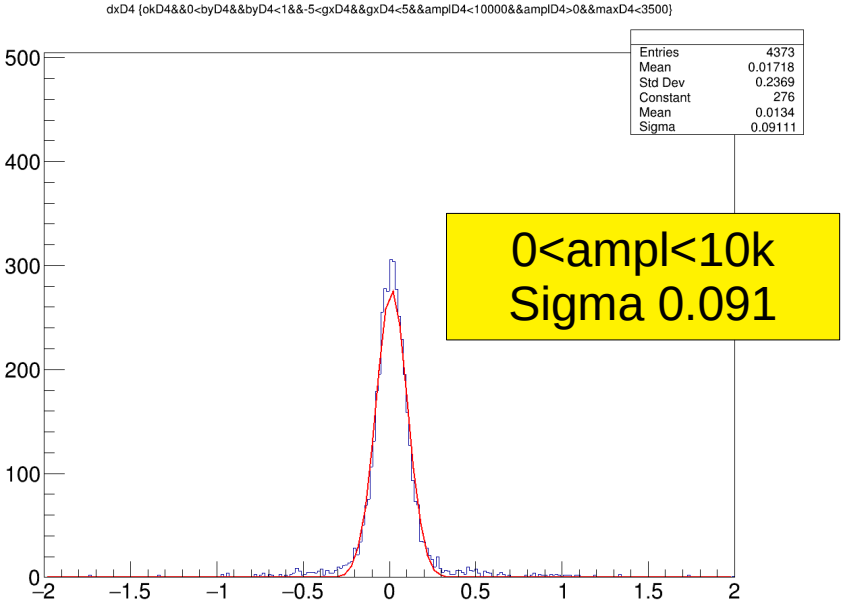


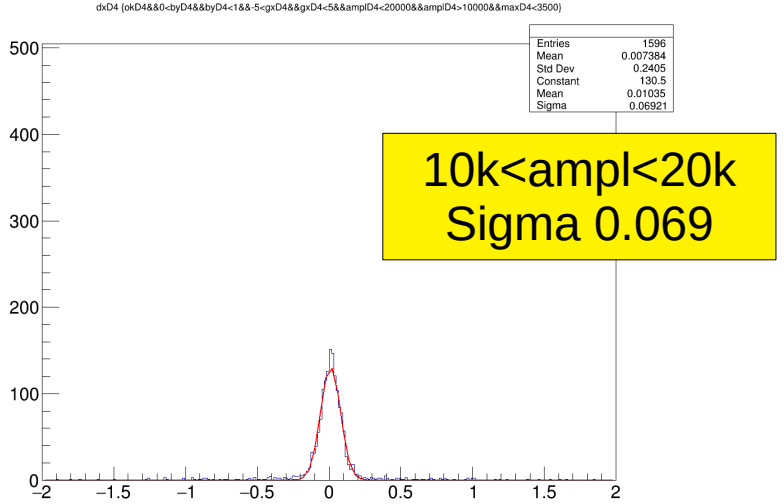


Run 1322, C1, .6mm pitch

On pillar



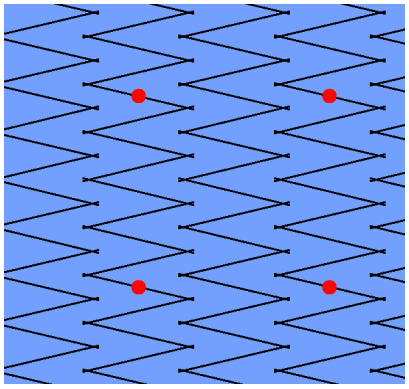




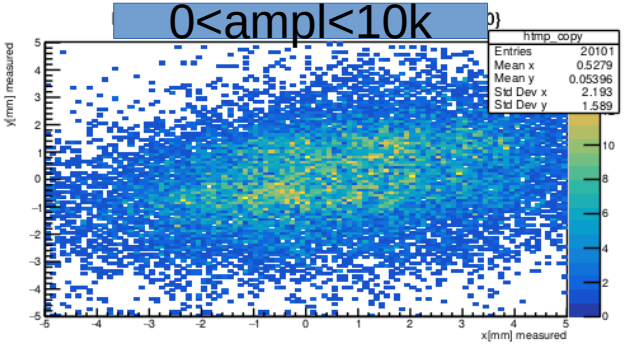
Run 1322, C1, .6mm pitch

between pillar

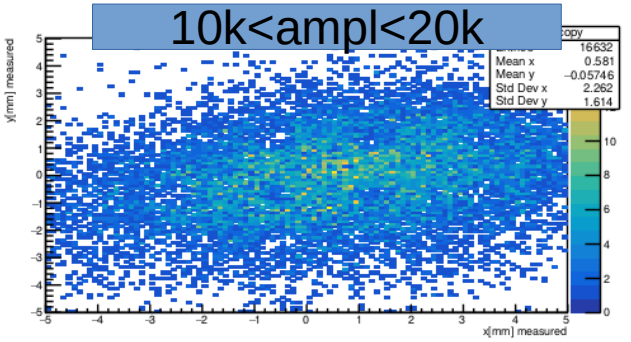
Beam profile Y-Si vs X-detector with fiducial cut in amplitude



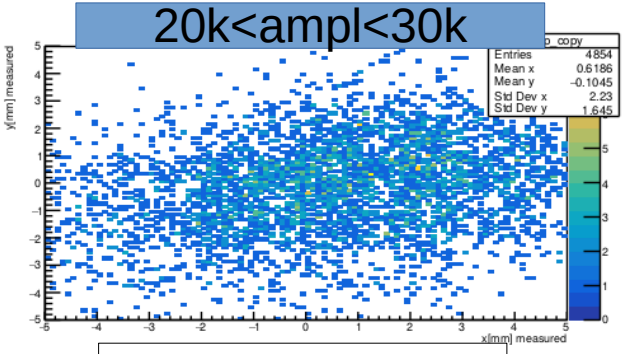
0<ampl<10k



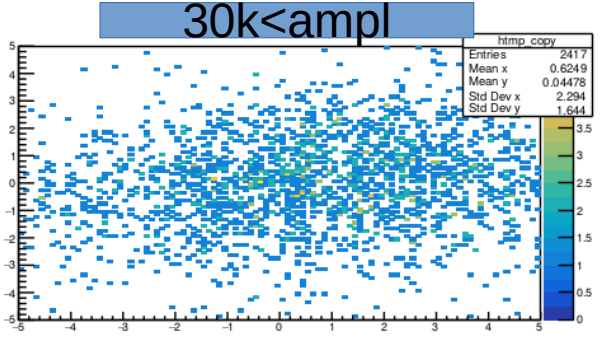
10k<ampl<20k

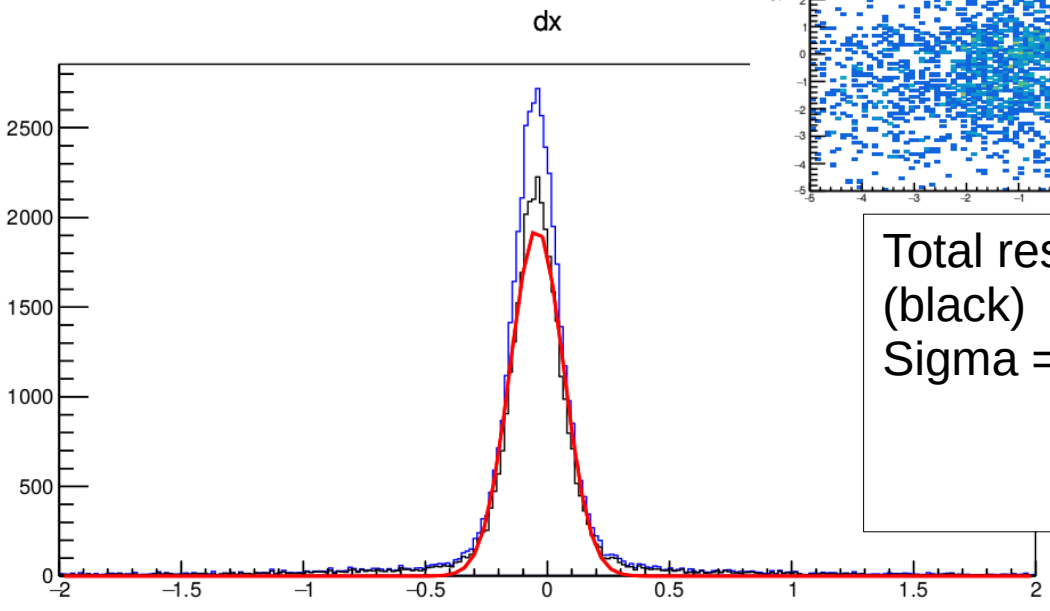


20k<ampl<30k



30k<ampl

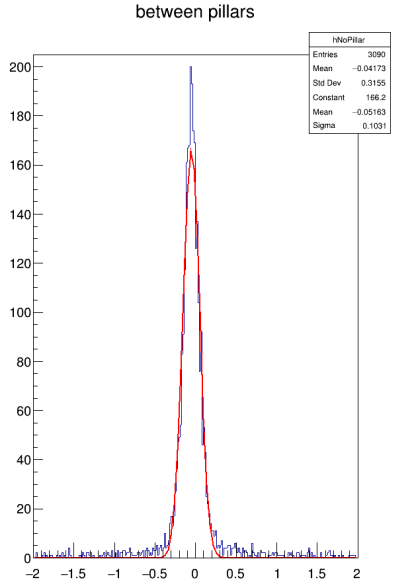


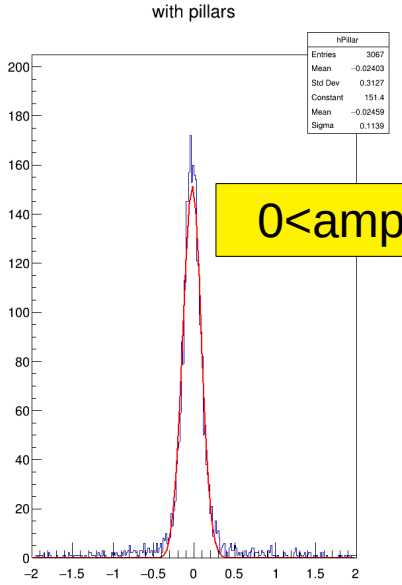


Total residual (black)
Sigma = 0.109

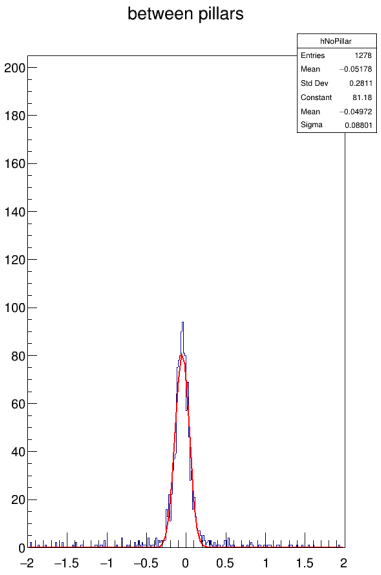
1434 E8 1mm pitch

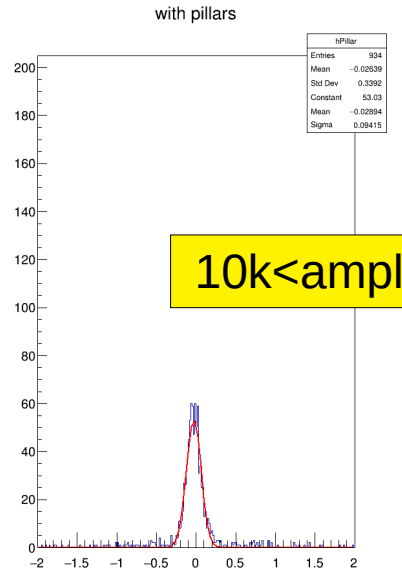
(yellow on final plot)



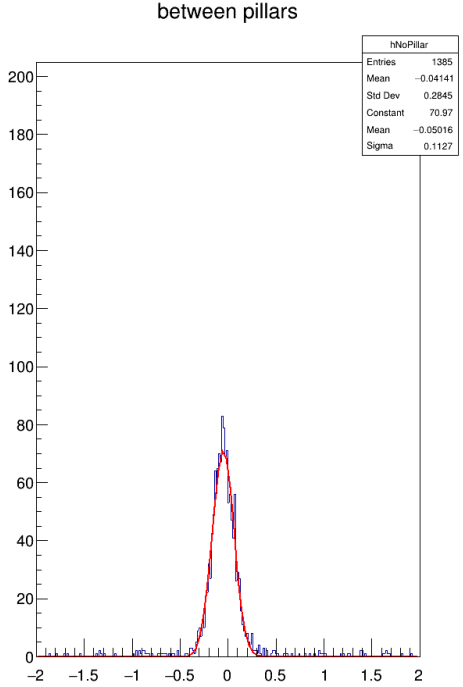


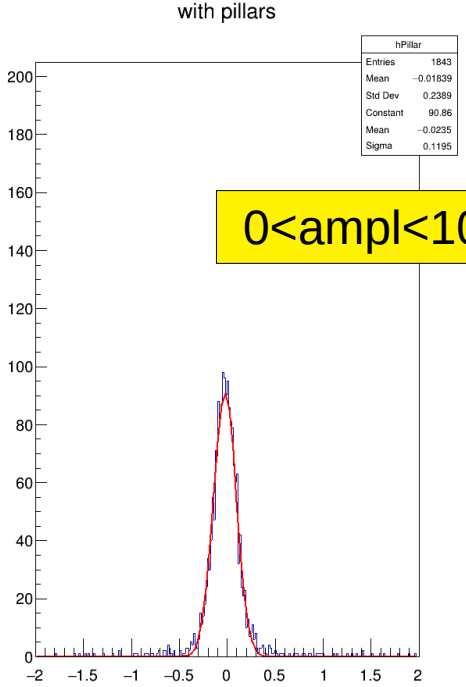
0<ampl





10k<ampl<20k

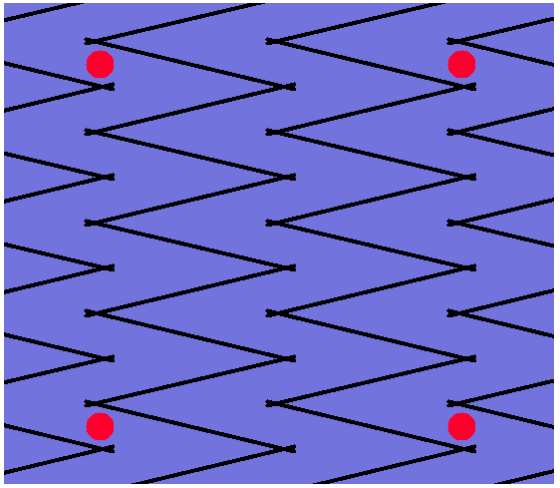




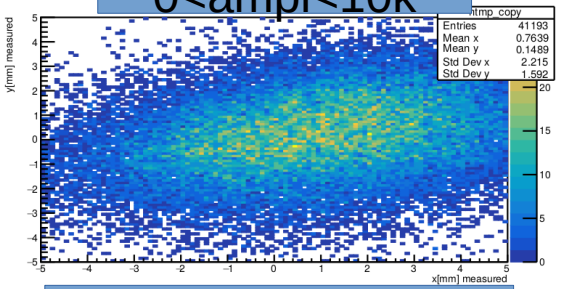
0<ampl<10k

1434 E8 1mm pitch

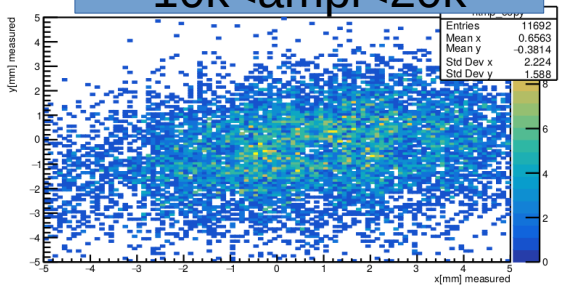
Beam profile Y-Si vs X-detector with fiducial cut in amplitude



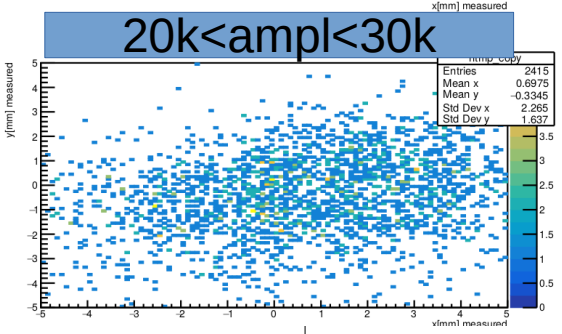
0<ampl<10k



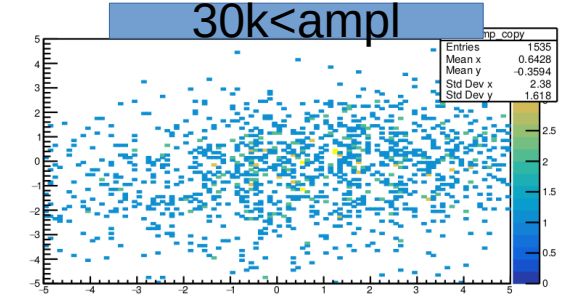
10k<ampl<20k



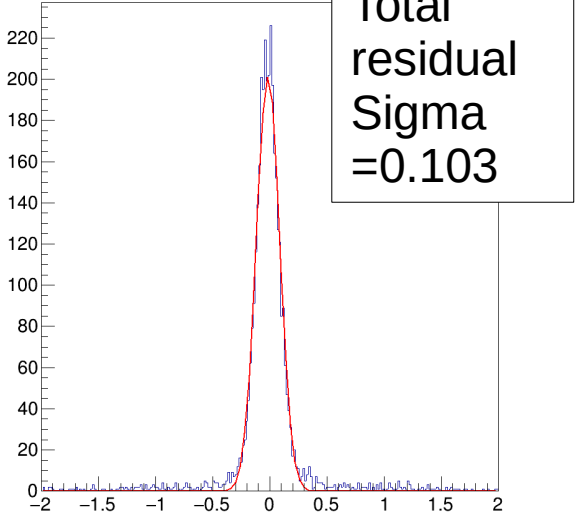
20k<ampl<30k



30k<ampl

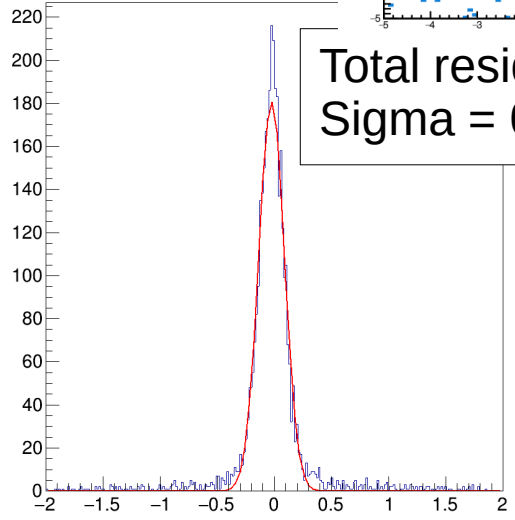


between pillars



Total residual Sigma =0.103

with pillars



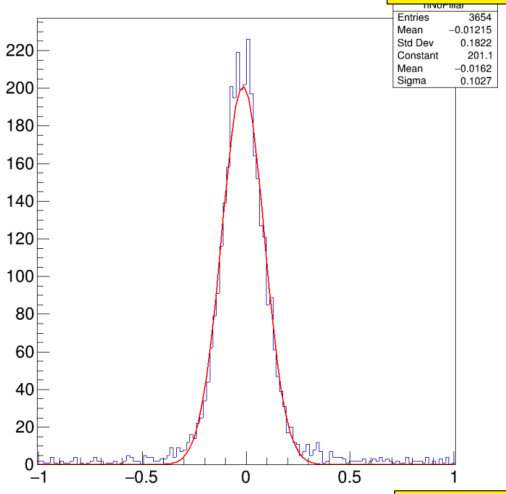
Total residual Sigma = 0.112

1433 F8 1mm pitch

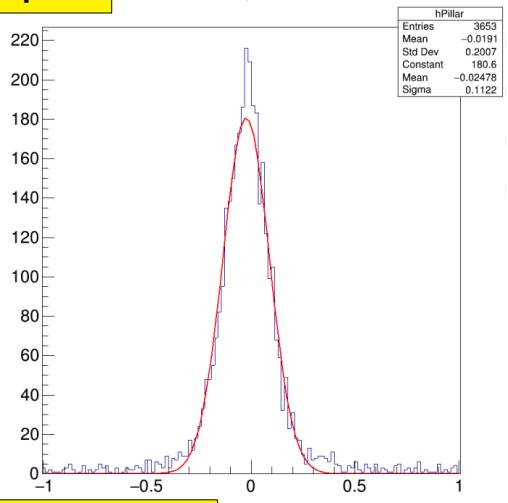
(yellow on final plot)

between pillars

0<ampl

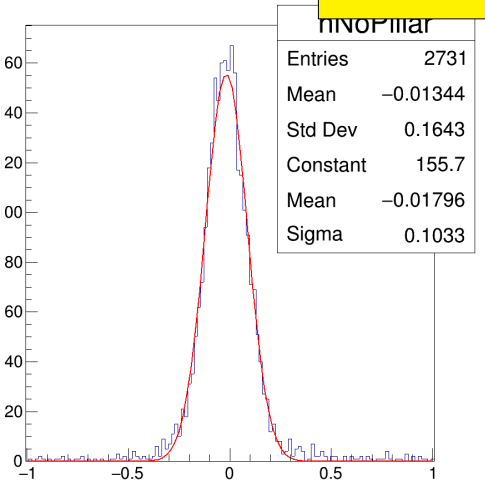


with pillars

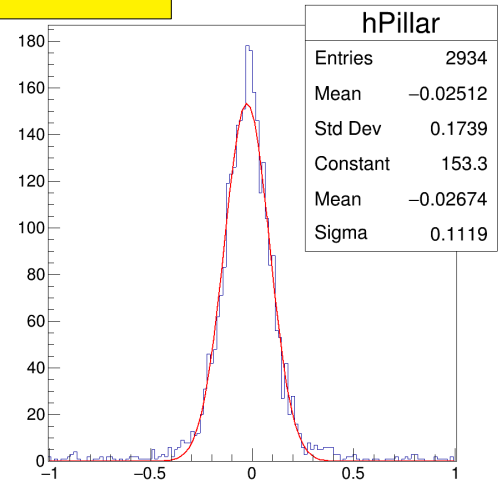


between pillars

0<ampl<10k

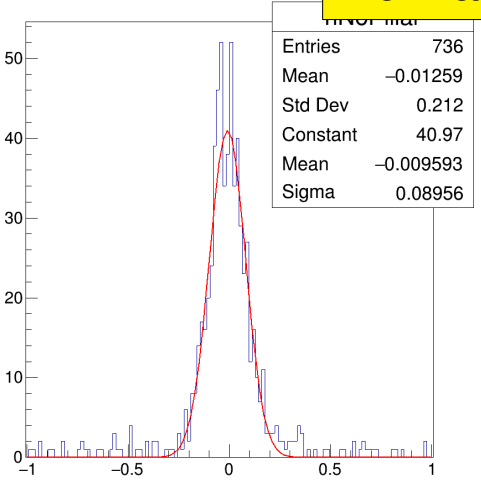


with pillars

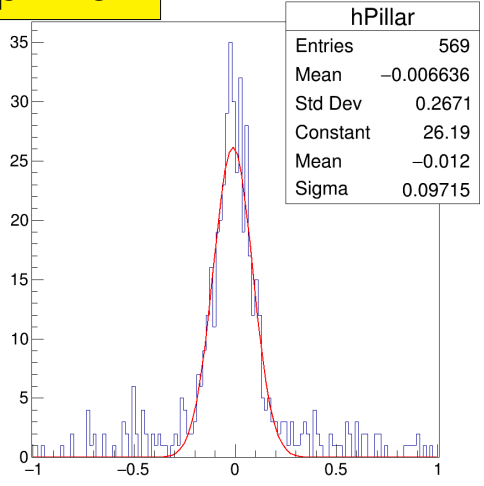


between pillars

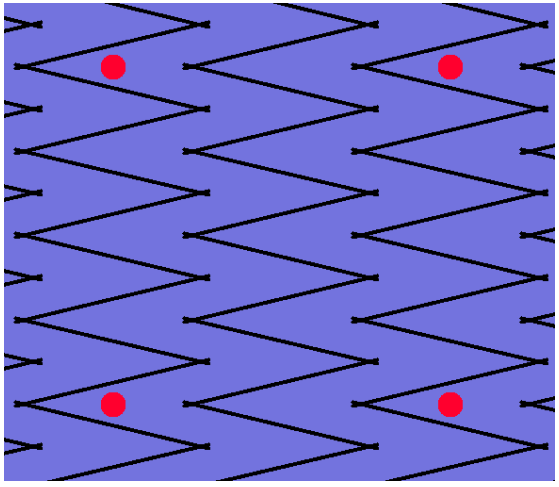
10k<ampl<20k

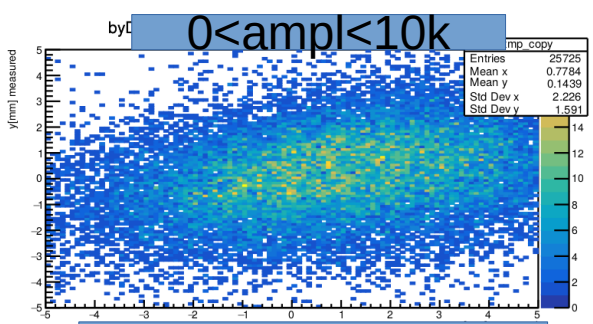


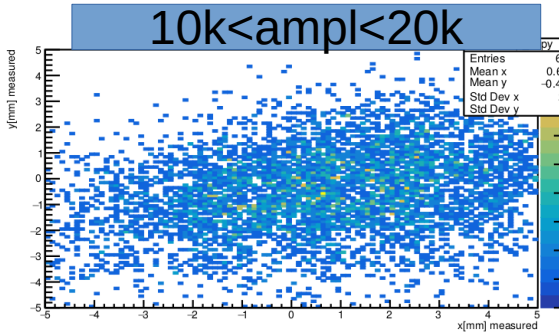
with pillars

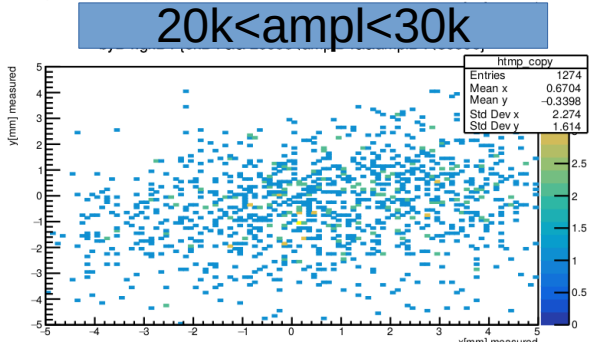


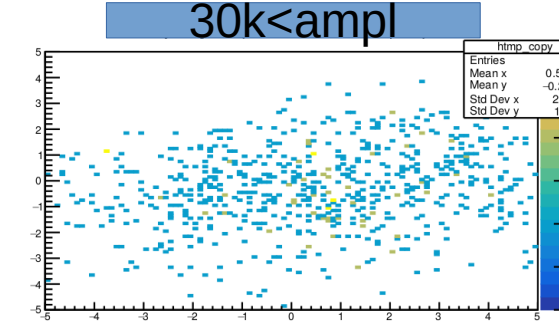
1433 F8 1mm pitch





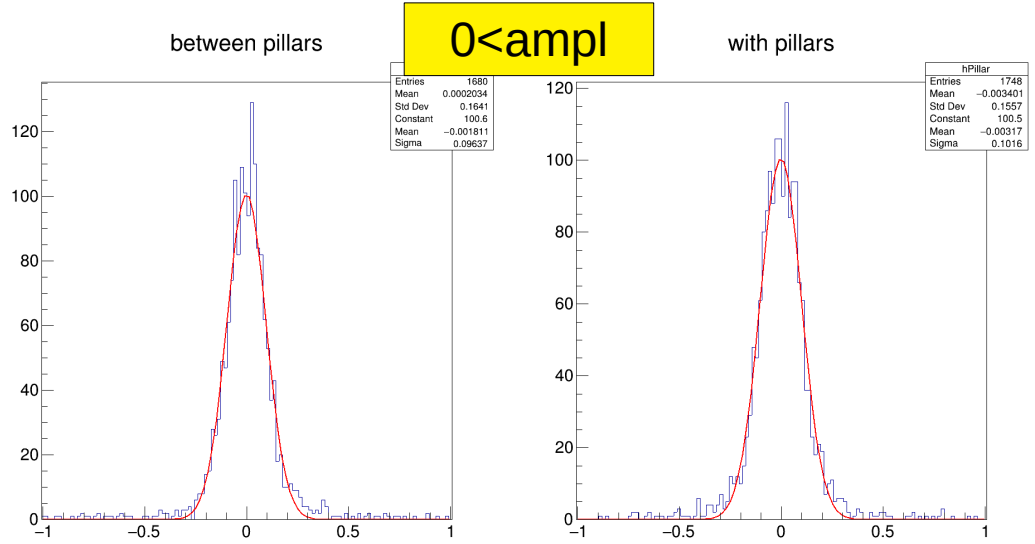


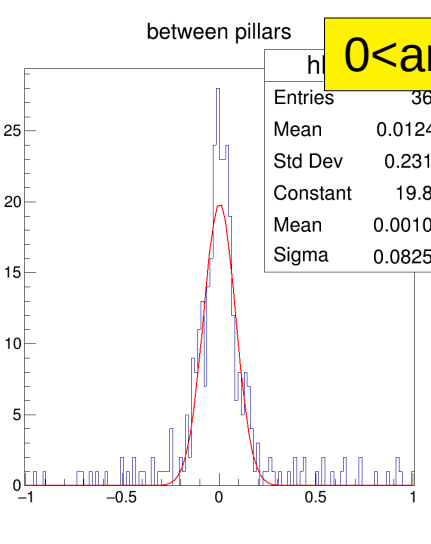


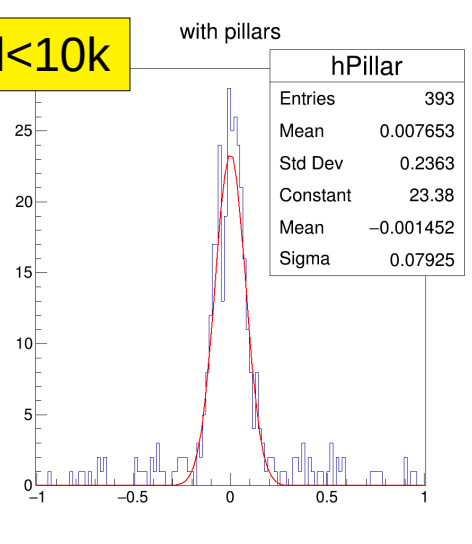


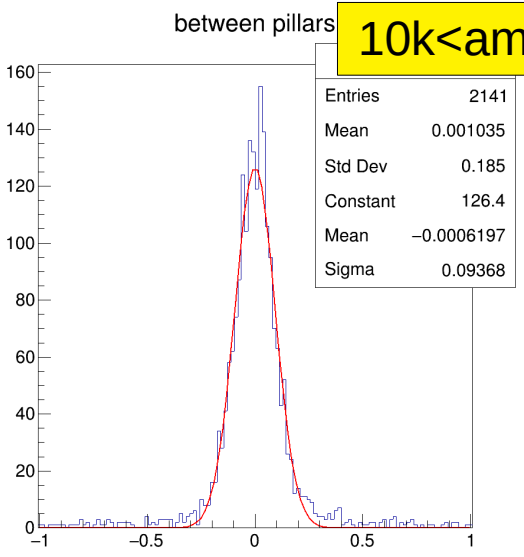
1433 F8 1mm pitch

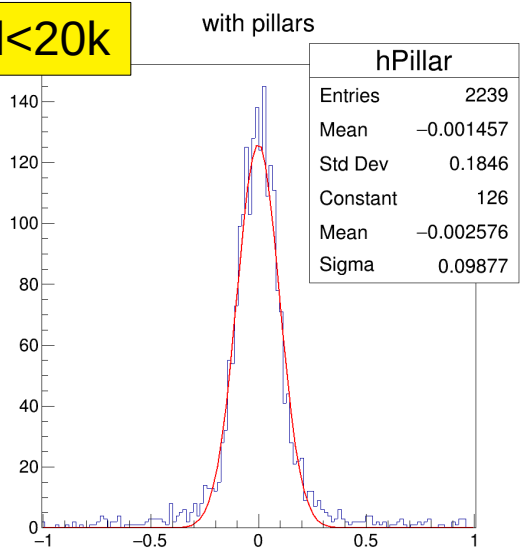
(yellow on final plot)











1444 F8 1mm pitch

(yellow on final plot)

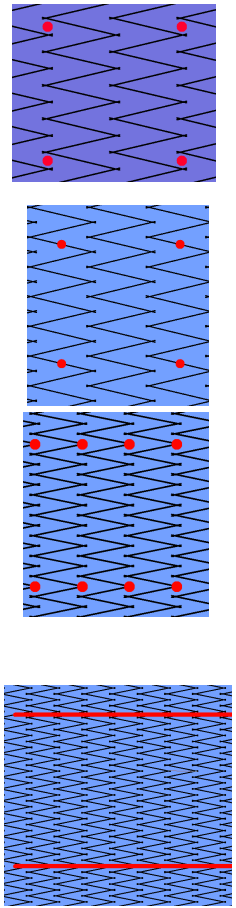
Residual dx (mm)

0.141
0.131
0.121
0.111
0.101
0.091
0.081
0.071
0.061

0,all
0,10k
10k,20k

Cut in amplitude

- on dot pillar @1mm pitch
- between dot pillar @1mm pitch
- on dot pillar @1mm pitch
- between dot pillar @1mm pitch
- on dot-long pillar @.6mm pitch
- between dot-long pillar @.6mm pitch
- on long pillar @0.6 pitch
- between long pillar @0.6mm pitch
- on long pillar @1mm pitch
- between long pillar @1mm pitch



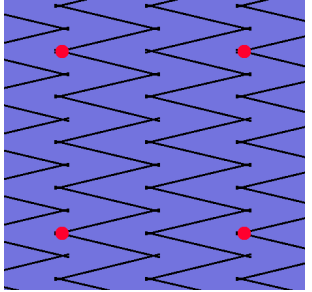
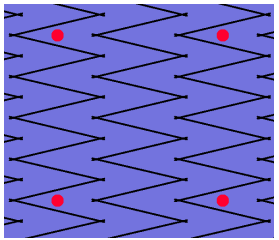
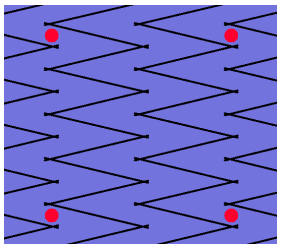
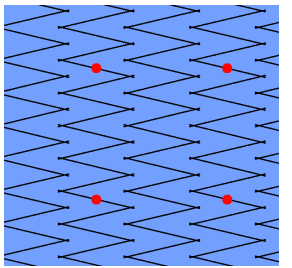
Residual dx (mm)

0.121
0.116
0.111
0.106
0.101
0.096
0.091
0.086
0.081
0.076
0.071

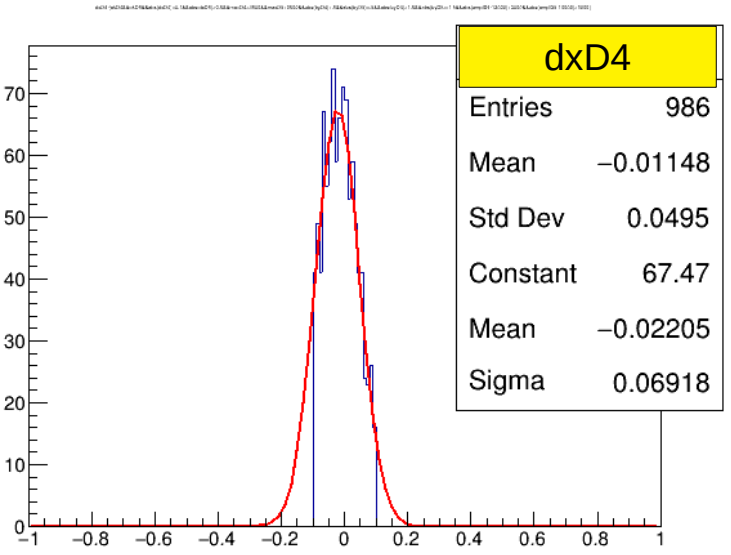
0,all
0,10k
10k,20k

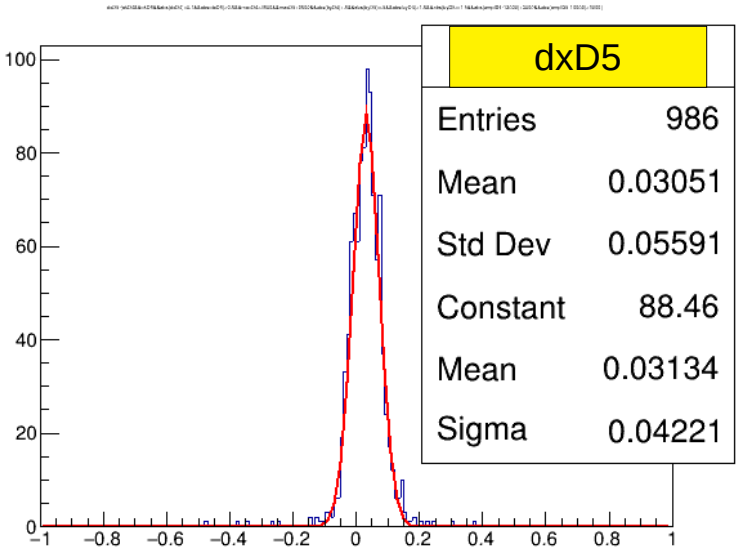
Cut in amplitude

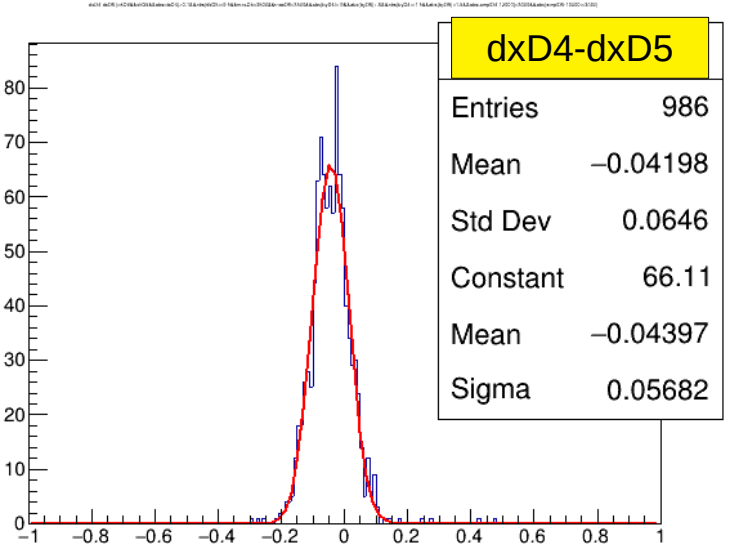
between
on pillars
on pillar
between pil-lars
on dot pillar @1mm pitch
between dot pillar @1mm pitch
on dot pillar @1mm pitch
between dot pillar @1mm pitch

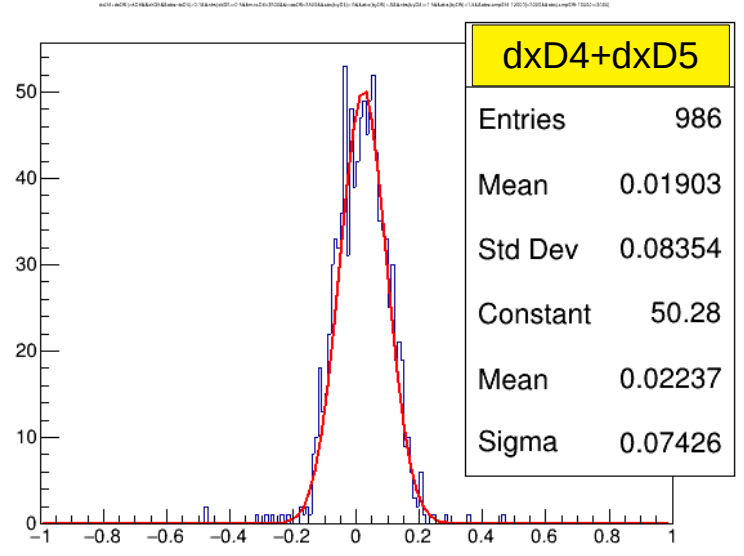





Run 1363


dxD4
Entries 986
Mean −0.01148
Std Dev 0.0495
Constant 67.47
Mean −0.02205
Sigma 0.06918


dxD5
Entries 986
Mean 0.03051
Std Dev 0.05591
Constant 88.46
Mean 0.03134
Sigma 0.04221


dxD4-dxD5
Entries 986
Mean −0.04198
Std Dev 0.0646
Constant 66.11
Mean −0.04397
Sigma 0.05682


dxD4+dxD5
Entries 986
Mean 0.01903
Std Dev 0.08354
Constant 50.28
Mean 0.02237
Sigma 0.07426