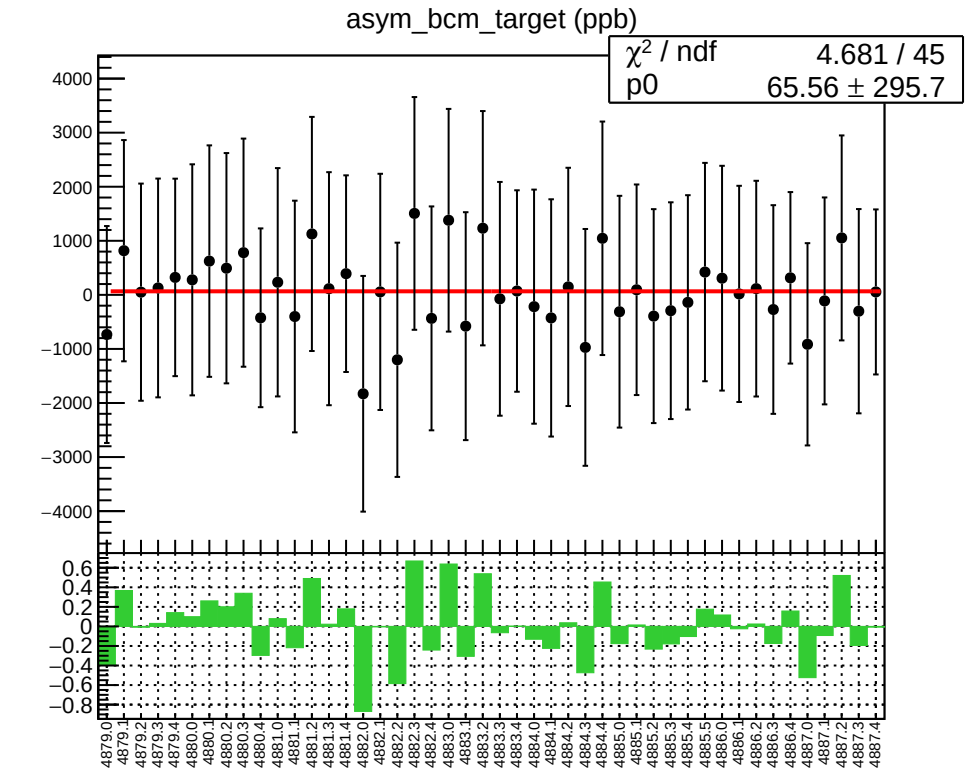
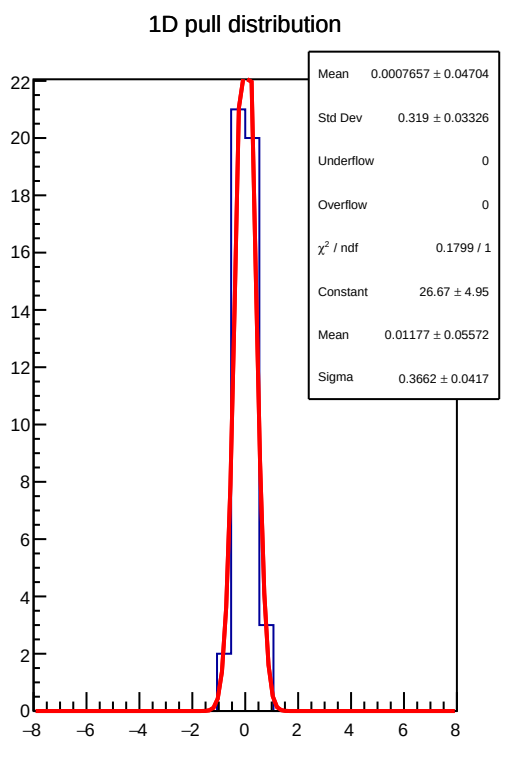
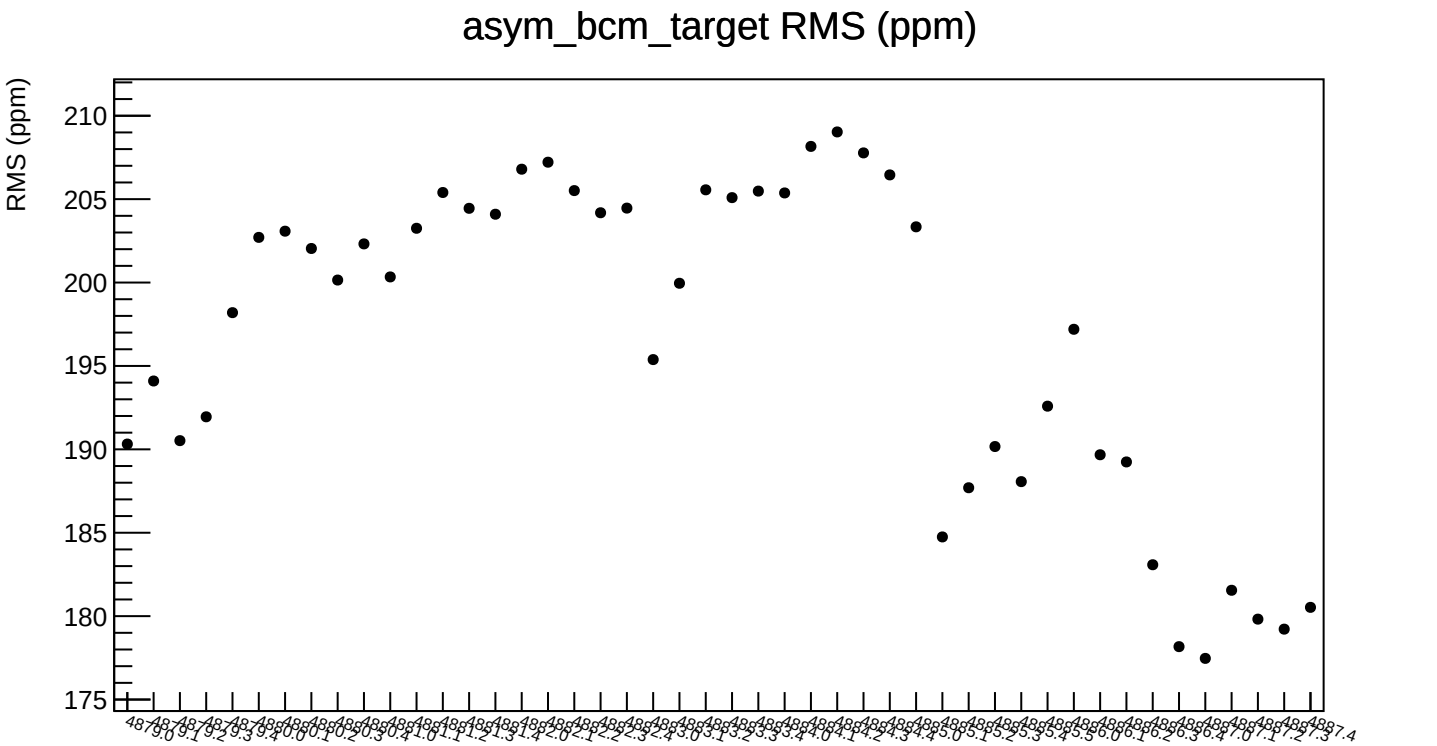
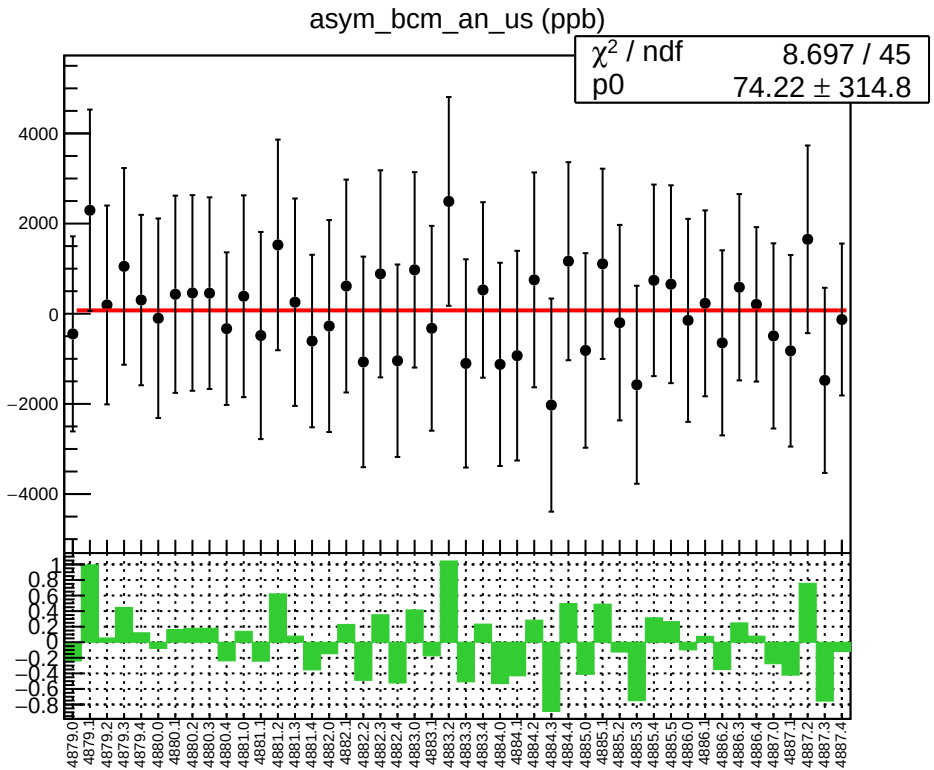
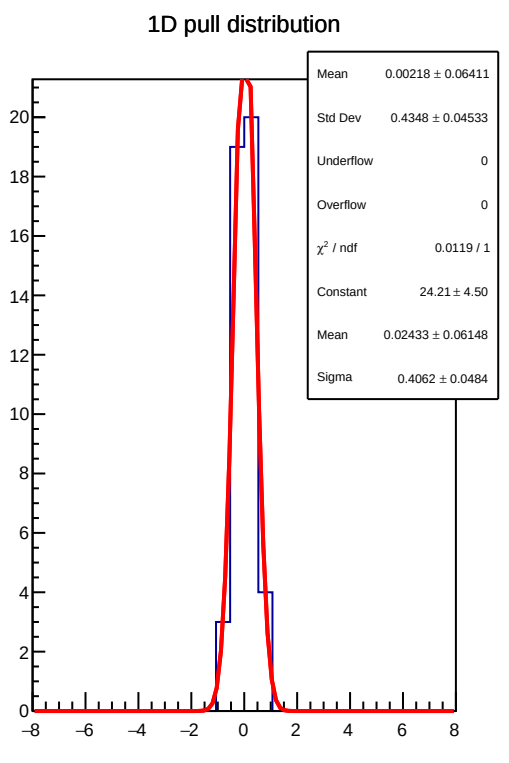
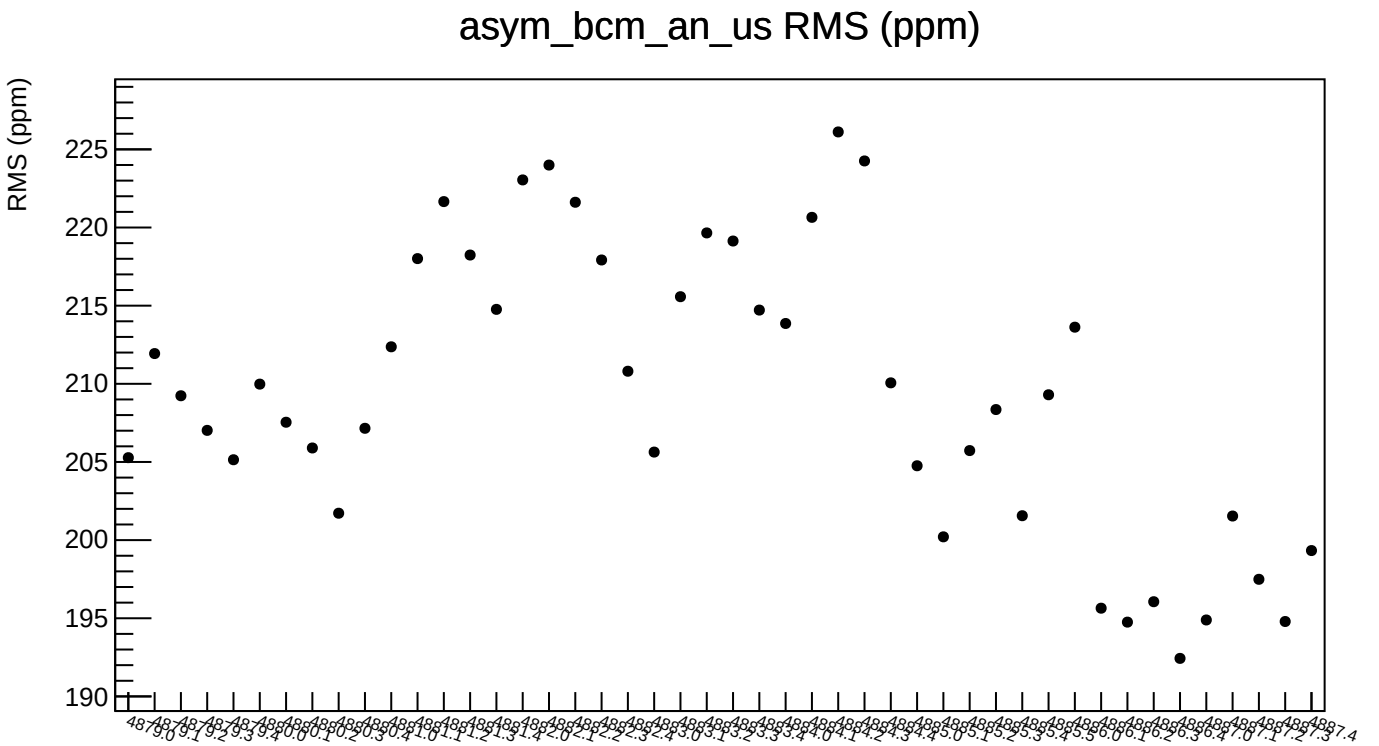

asym_bcm_target (ppb)
χ² / ndf 4.681 / 45
p0 65.56 ± 295.7
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
4879.0
4879.1
4879.2
4879.3
4879.4
4880.0
4880.1
4880.2
4880.3
4880.4
4881.0
4881.1
4881.2
4881.3
4881.4
4882.0
4882.1
4882.2
4882.3
4882.4
4883.0
4883.1
4883.2
4883.3
4883.4
4884.0
4884.1
4884.2
4884.3
4884.4
4885.0
4885.1
4885.2
4885.3
4885.4
4885.5
4886.0
4886.1
4886.2
4886.3
4886.4
4887.0
4887.1
4887.2
4887.3
4887.4

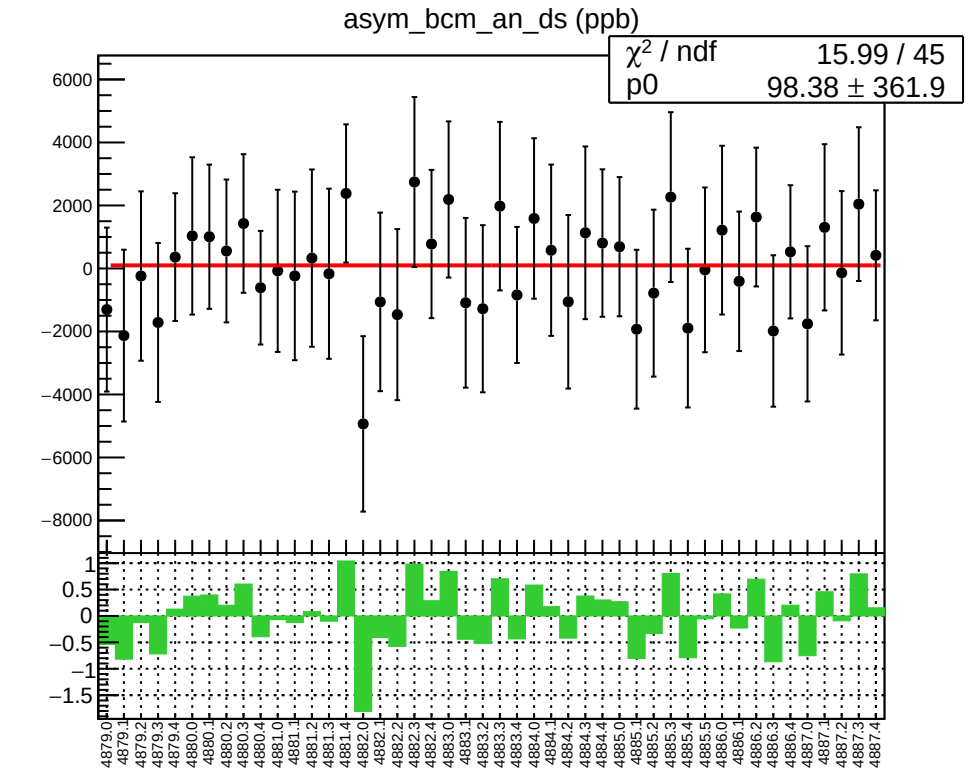

1D pull distribution
Mean 0.0007657 ± 0.04704
Std Dev 0.319 ± 0.03326
Underflow 0
Overflow 0
χ² / ndf 0.1799 / 1
Constant 26.67 ± 4.95
Mean 0.01177 ± 0.05572
Sigma 0.3662 ± 0.0417
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

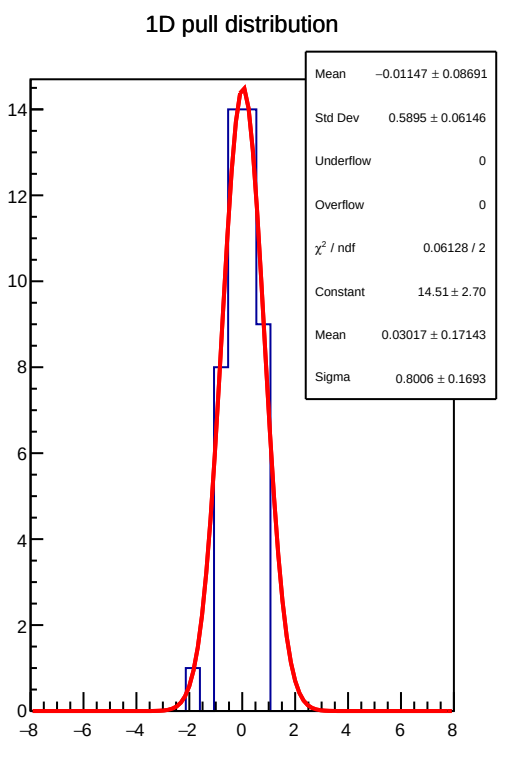

asym_bcm_target RMS (ppm)
RMS (ppm)
210
205
200
195
190
185
180
175

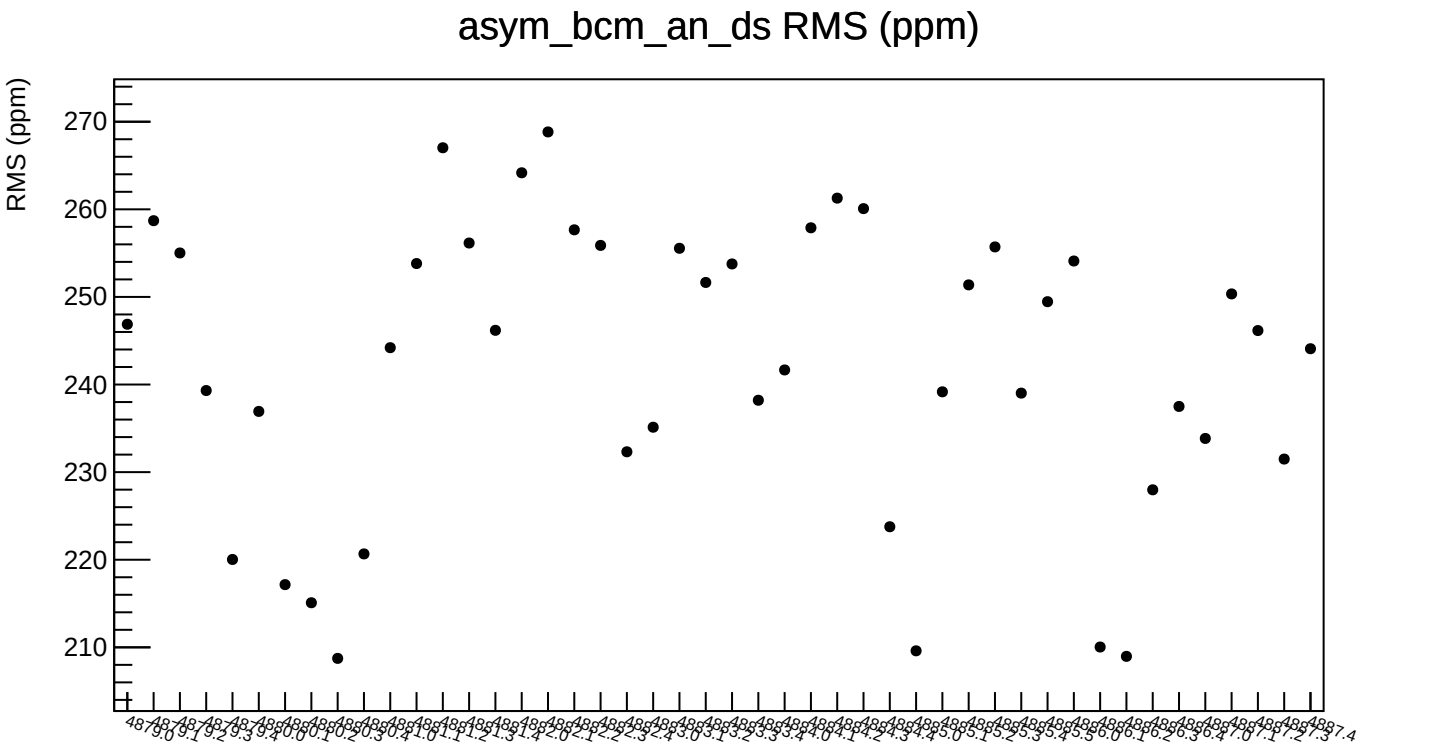

asym_bcm_an_us (ppb)
χ² / ndf 8.697 / 45
p0 74.22 ± 314.8
4000
2000
0
−2000
−4000
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
4879.0
4879.1
4879.2
4879.3
4879.4
4880.0
4880.1
4880.2
4880.3
4880.4
4881.0
4881.1
4881.2
4881.3
4881.4
4882.0
4882.1
4882.2
4882.3
4882.4
4883.0
4883.1
4883.2
4883.3
4883.4
4884.0
4884.1
4884.2
4884.3
4884.4
4885.0
4885.1
4885.2
4885.3
4885.4
4885.5
4886.0
4886.1
4886.2
4886.3
4886.4
4887.0
4887.1
4887.2
4887.3
4887.4

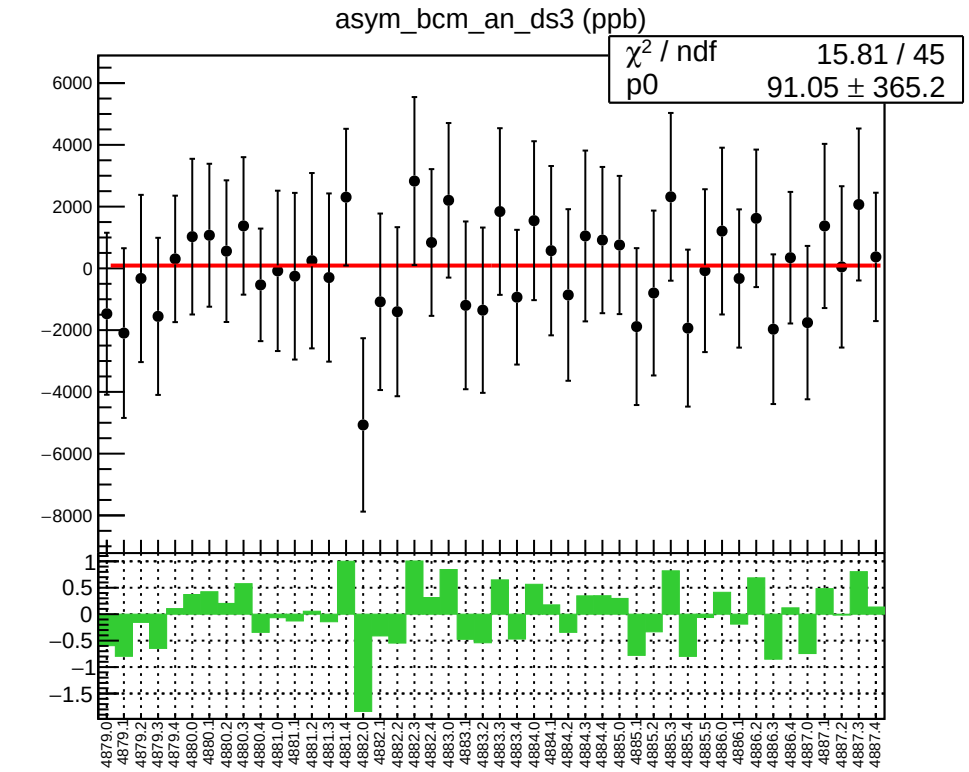

1D pull distribution
Mean 0.00218 ± 0.06411
Std Dev 0.4348 ± 0.04533
Underflow 0
Overflow 0
χ² / ndf 0.0119 / 1
Constant 24.21 ± 4.50
Mean 0.02433 ± 0.06148
Sigma 0.4062 ± 0.0484
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

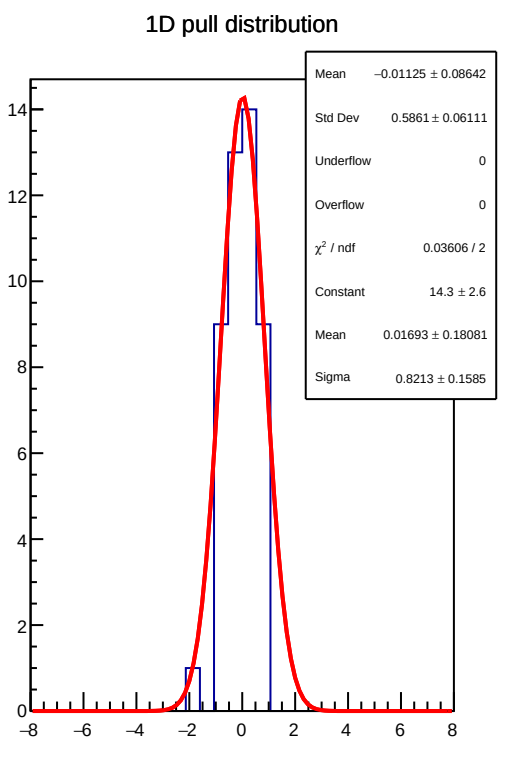

asym_bcm_an_us RMS (ppm)
RMS (ppm)
225
220
215
210
205
200
195
190

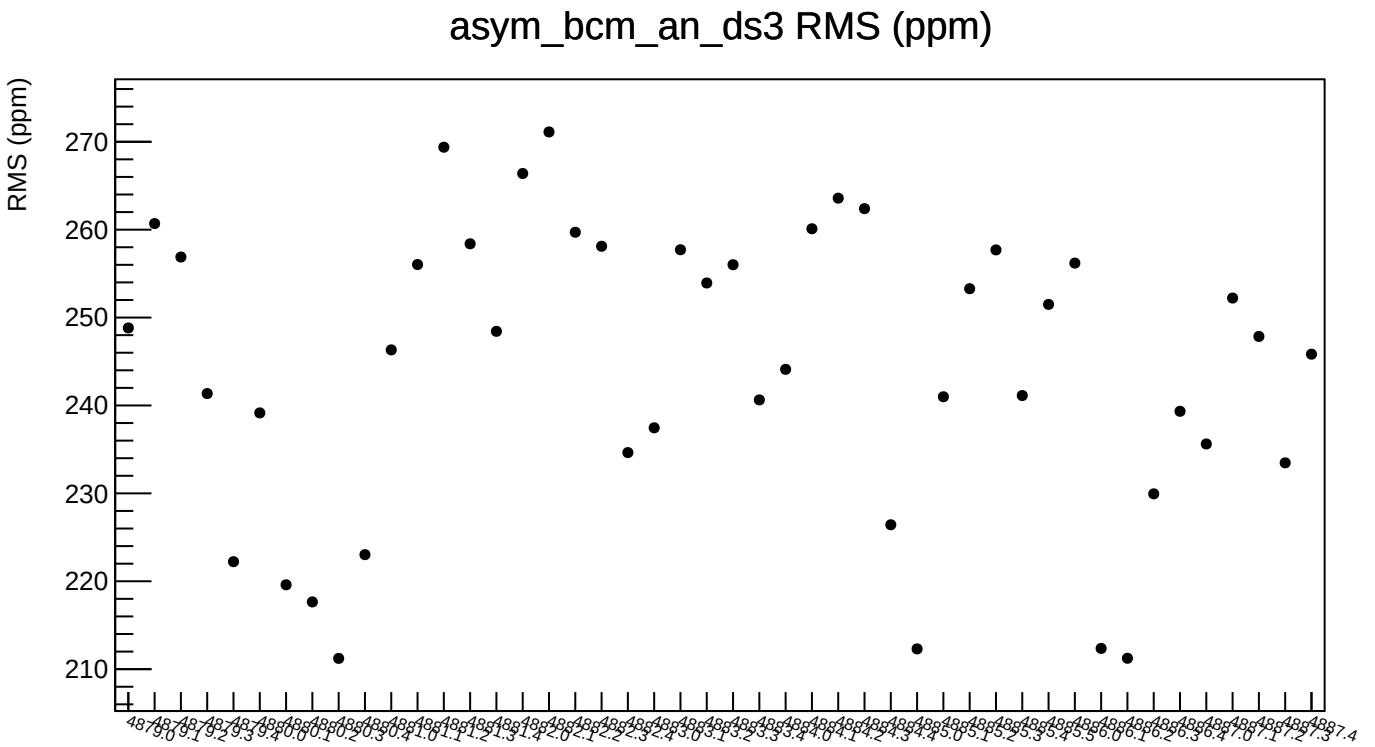

asym_bcm_an_ds (ppb)
χ² / ndf 15.99 / 45
p0 98.38 ± 361.9
6000
4000
2000
0
−2000
−4000
−6000
−8000
1
0.5
0
−0.5
−1
−1.5
4879.0
4879.1
4879.2
4879.3
4879.4
4880.0
4880.1
4880.2
4880.3
4880.4
4881.0
4881.1
4881.2
4881.3
4881.4
4882.0
4882.1
4882.2
4882.3
4882.4
4883.0
4883.1
4883.2
4883.3
4883.4
4884.0
4884.1
4884.2
4884.3
4884.4
4885.0
4885.1
4885.2
4885.3
4885.4
4885.5
4886.0
4886.1
4886.2
4886.3
4886.4
4887.0
4887.1
4887.2
4887.3
4887.4

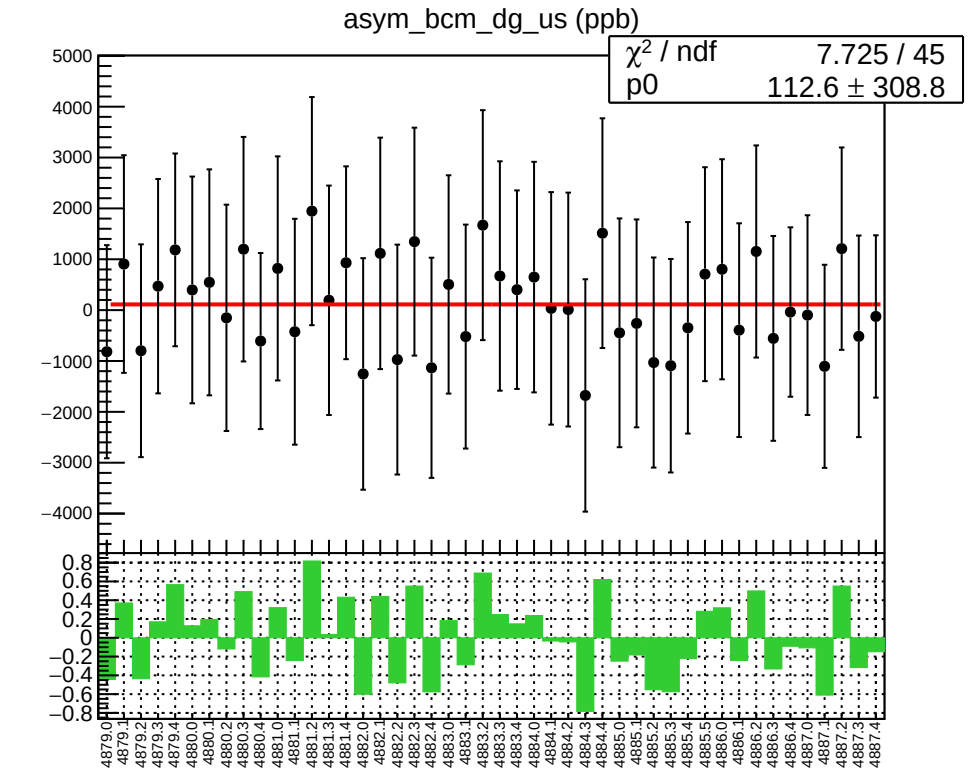

1D pull distribution
Mean −0.01147 ± 0.08691
Std Dev 0.5895 ± 0.06146
Underflow 0
Overflow 0
χ² / ndf 0.06128 / 2
Constant 14.51 ± 2.70
Mean 0.03017 ± 0.17143
Sigma 0.8006 ± 0.1693
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

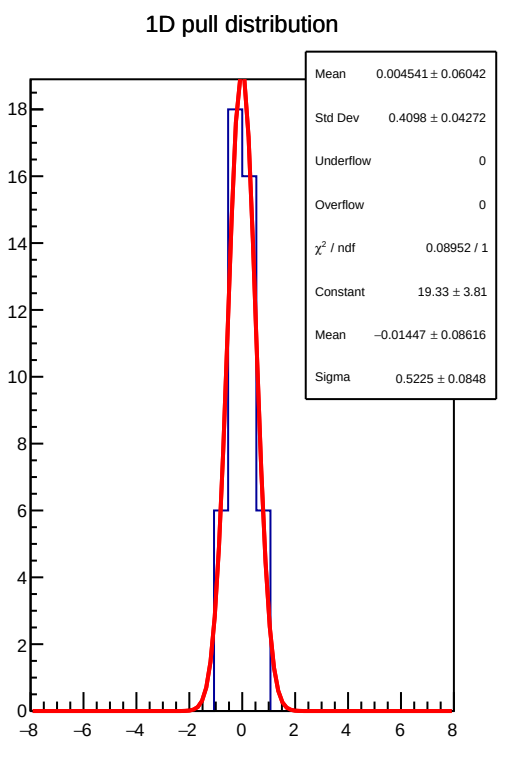

asym_bcm_an_ds RMS (ppm)
RMS (ppm)
270
260
250
240
230
220
210

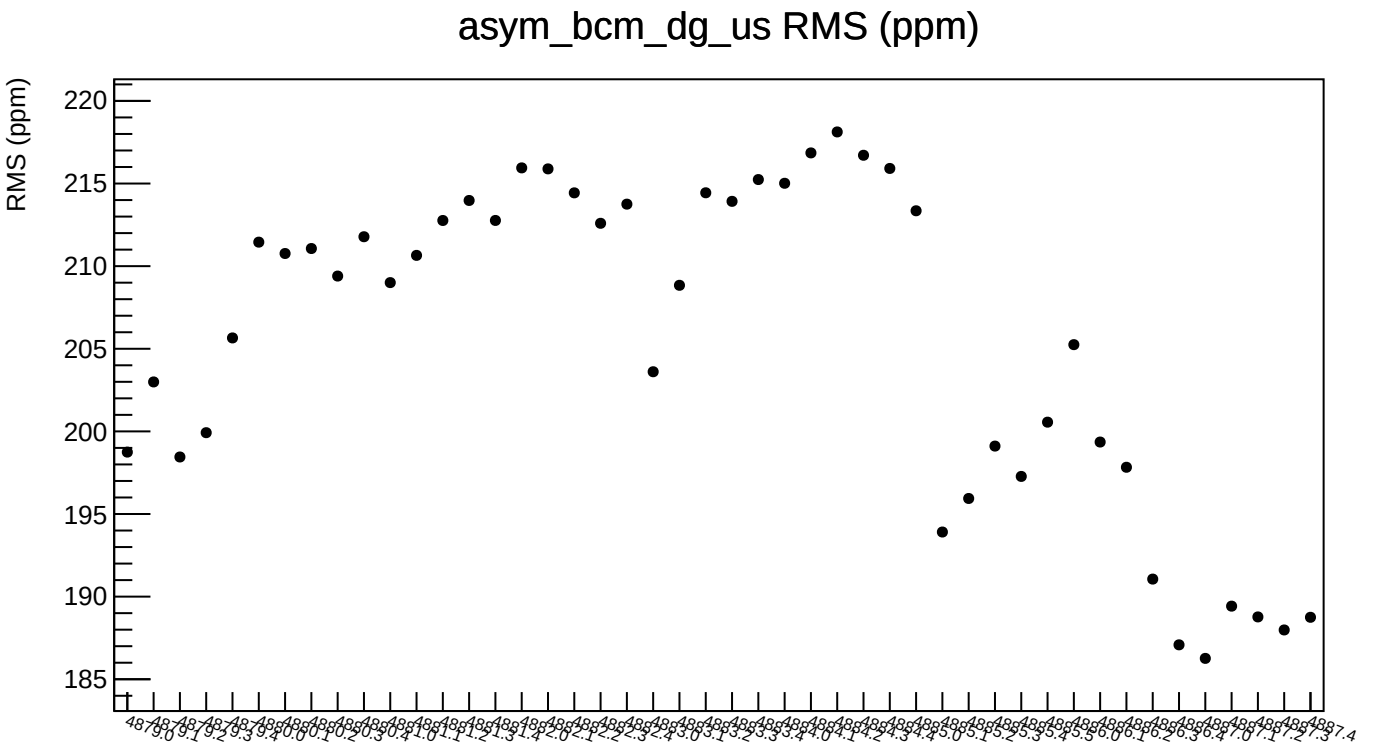

asym_bcm_an_ds3 (ppb)
χ² / ndf 15.81 / 45
p0 91.05 ± 365.2
6000
4000
2000
0
−2000
−4000
−6000
−8000
1
0.5
0
−0.5
−1
−1.5
4879.0
4879.1
4879.2
4879.3
4879.4
4880.0
4880.1
4880.2
4880.3
4880.4
4881.0
4881.1
4881.2
4881.3
4881.4
4882.0
4882.1
4882.2
4882.3
4882.4
4883.0
4883.1
4883.2
4883.3
4883.4
4884.0
4884.1
4884.2
4884.3
4884.4
4885.0
4885.1
4885.2
4885.3
4885.4
4885.5
4886.0
4886.1
4886.2
4886.3
4886.4
4887.0
4887.1
4887.2
4887.3
4887.4

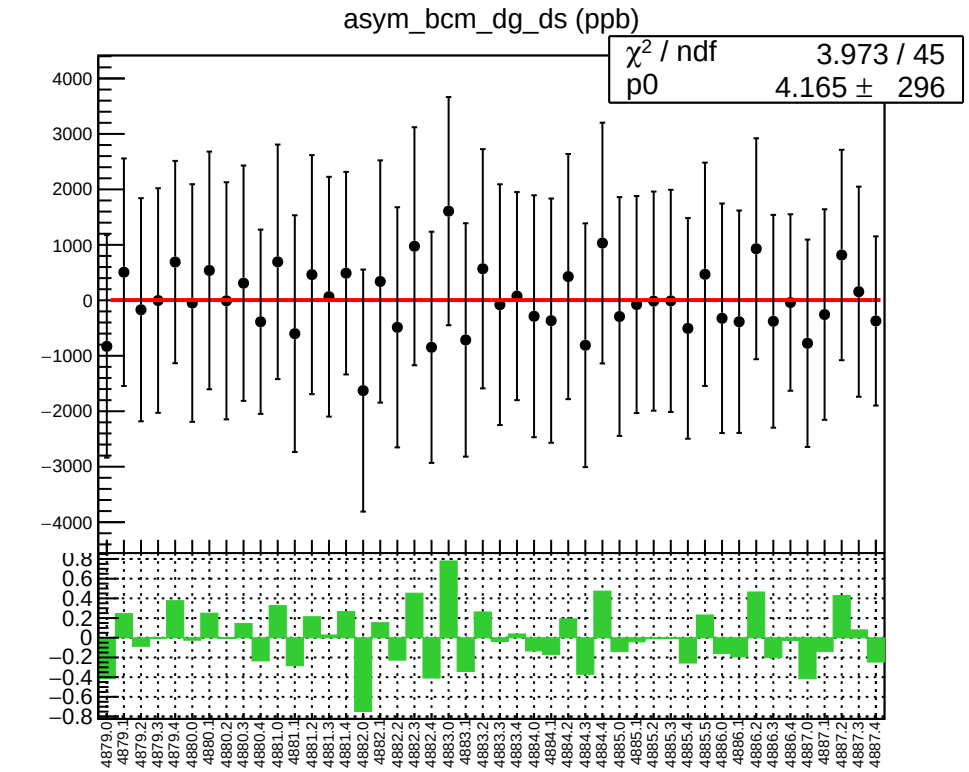

1D pull distribution
Mean −0.01125 ± 0.08642
Std Dev 0.5861 ± 0.06111
Underflow 0
Overflow 0
χ² / ndf 0.03606 / 2
Constant 14.3 ± 2.6
Mean 0.01693 ± 0.18081
Sigma 0.8213 ± 0.1585
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

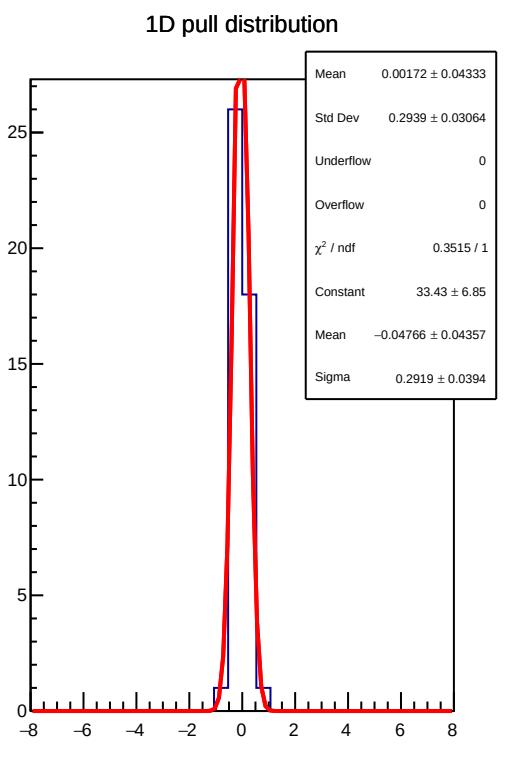

asym_bcm_an_ds3 RMS (ppm)
RMS (ppm)
270
260
250
240
230
220
210

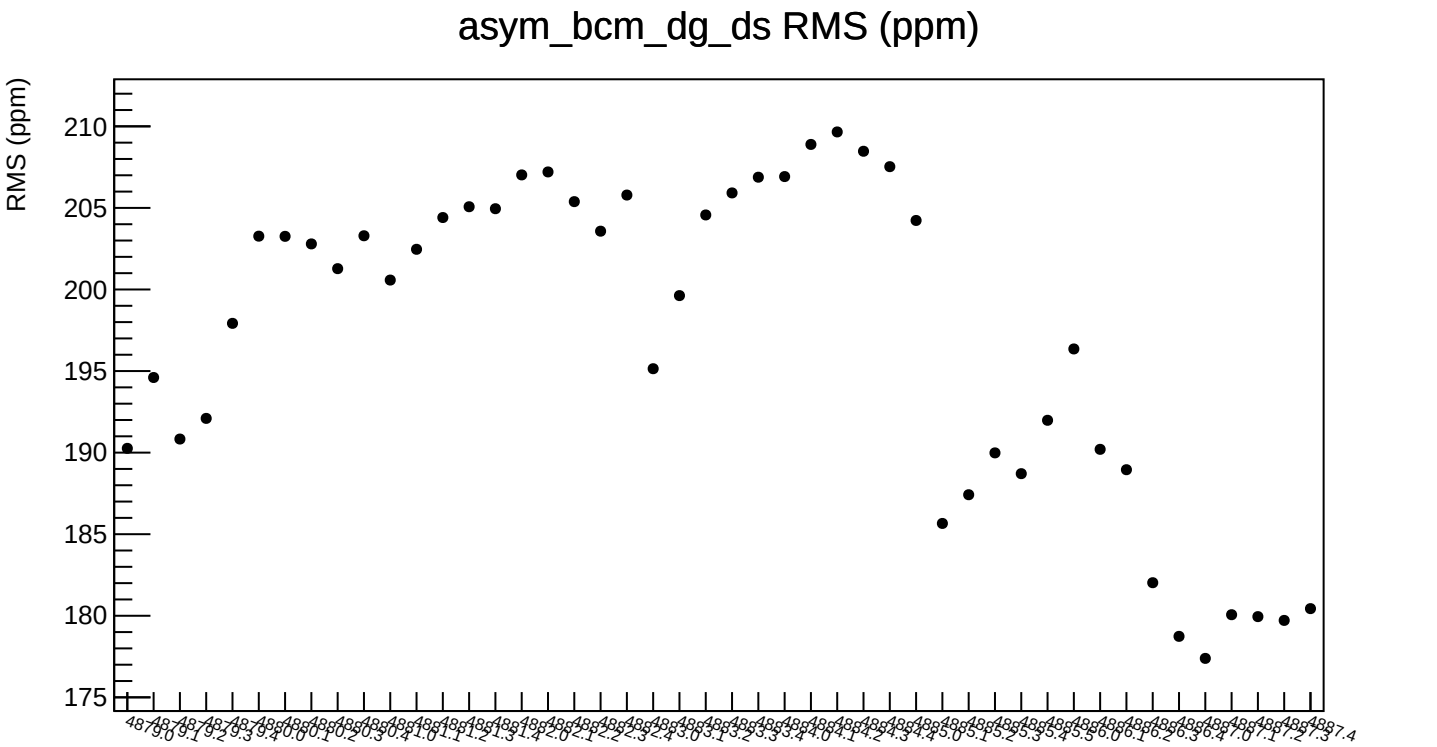

asym_bcm_dg_us (ppb)
χ² / ndf 7.725 / 45
p0 112.6 ± 308.8

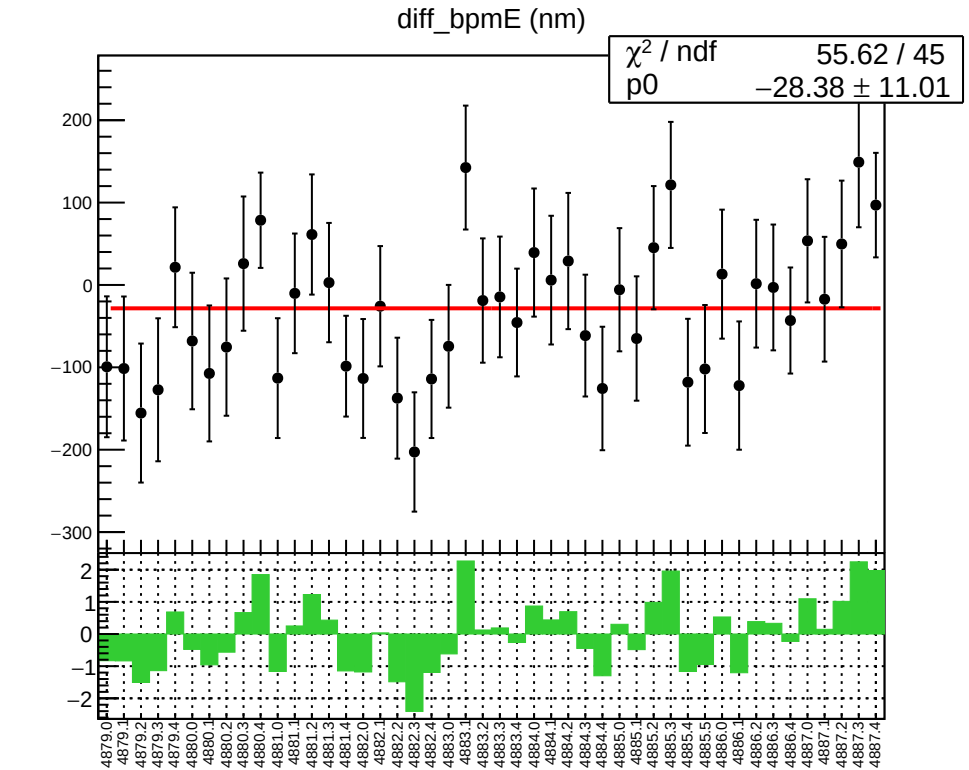

1D pull distribution
Mean 0.004541 ± 0.06042
Std Dev 0.4098 ± 0.04272
Underflow 0
Overflow 0
χ² / ndf 0.08952 / 1
Constant 19.33 ± 3.81
Mean −0.01447 ± 0.08616
Sigma 0.5225 ± 0.0848

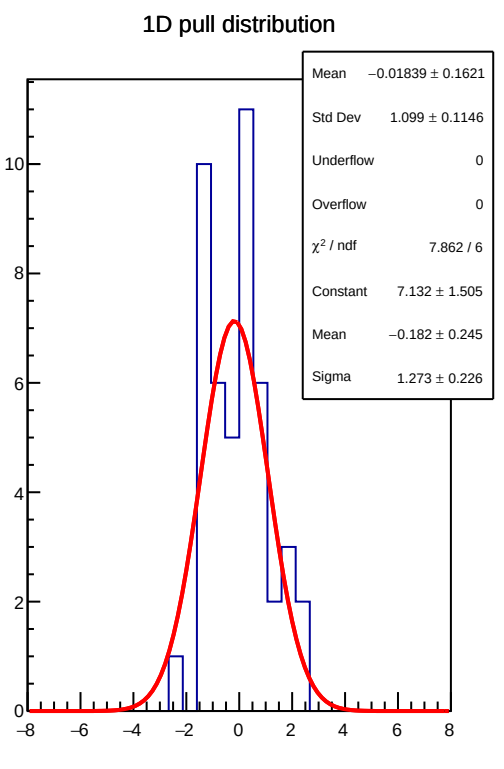

asym_bcm_dg_us RMS (ppm)
RMS (ppm)
220
215
210
205
200
195
190
185

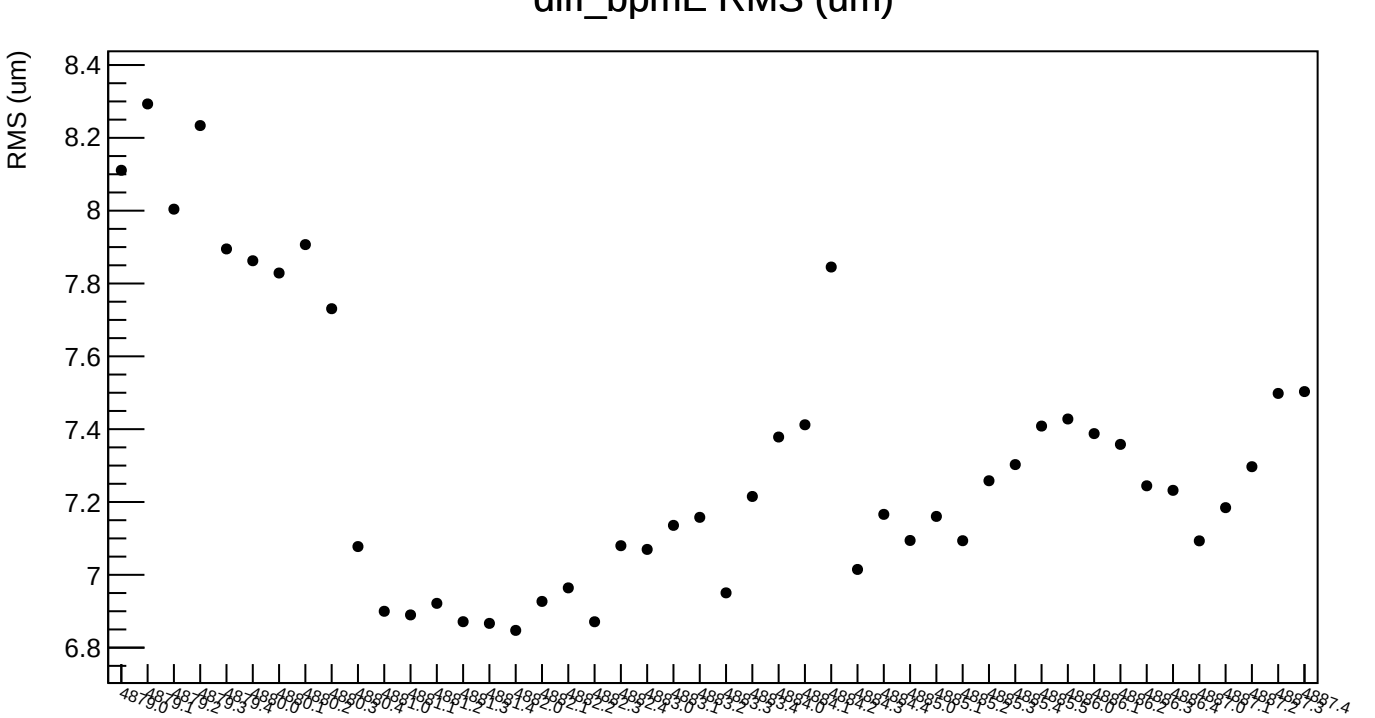

asym_bcm_dg_ds (ppb)
χ² / ndf 3.973 / 45
p0 4.165 ± 296

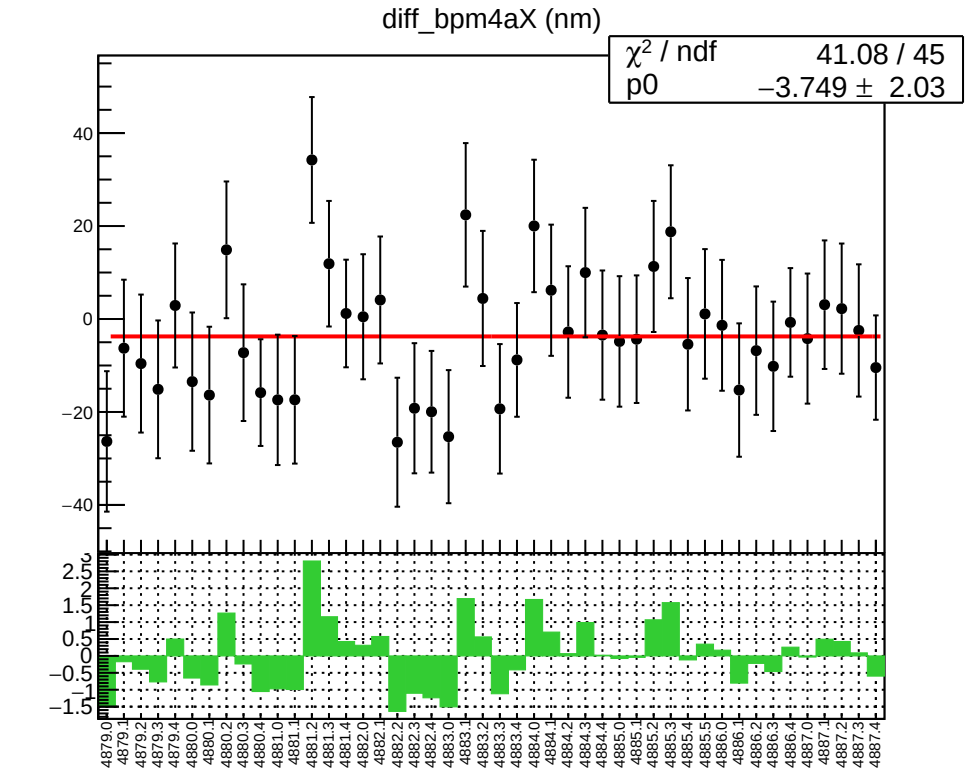

1D pull distribution
Mean 0.00172 ± 0.04333
Std Dev 0.2939 ± 0.03064
Underflow 0
Overflow 0
χ² / ndf 0.3515 / 1
Constant 33.43 ± 6.85
Mean −0.04766 ± 0.04357
Sigma 0.2919 ± 0.0394

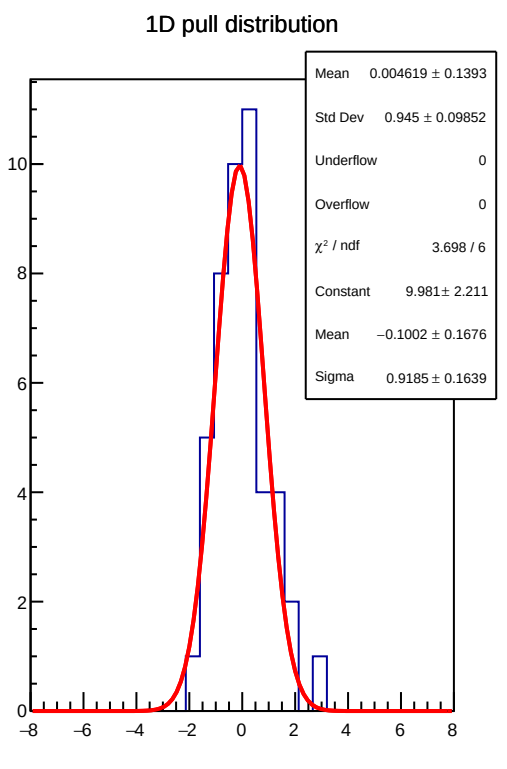

asym_bcm_dg_ds RMS (ppm)
RMS (ppm)
210
205
200
195
190
185
180
175

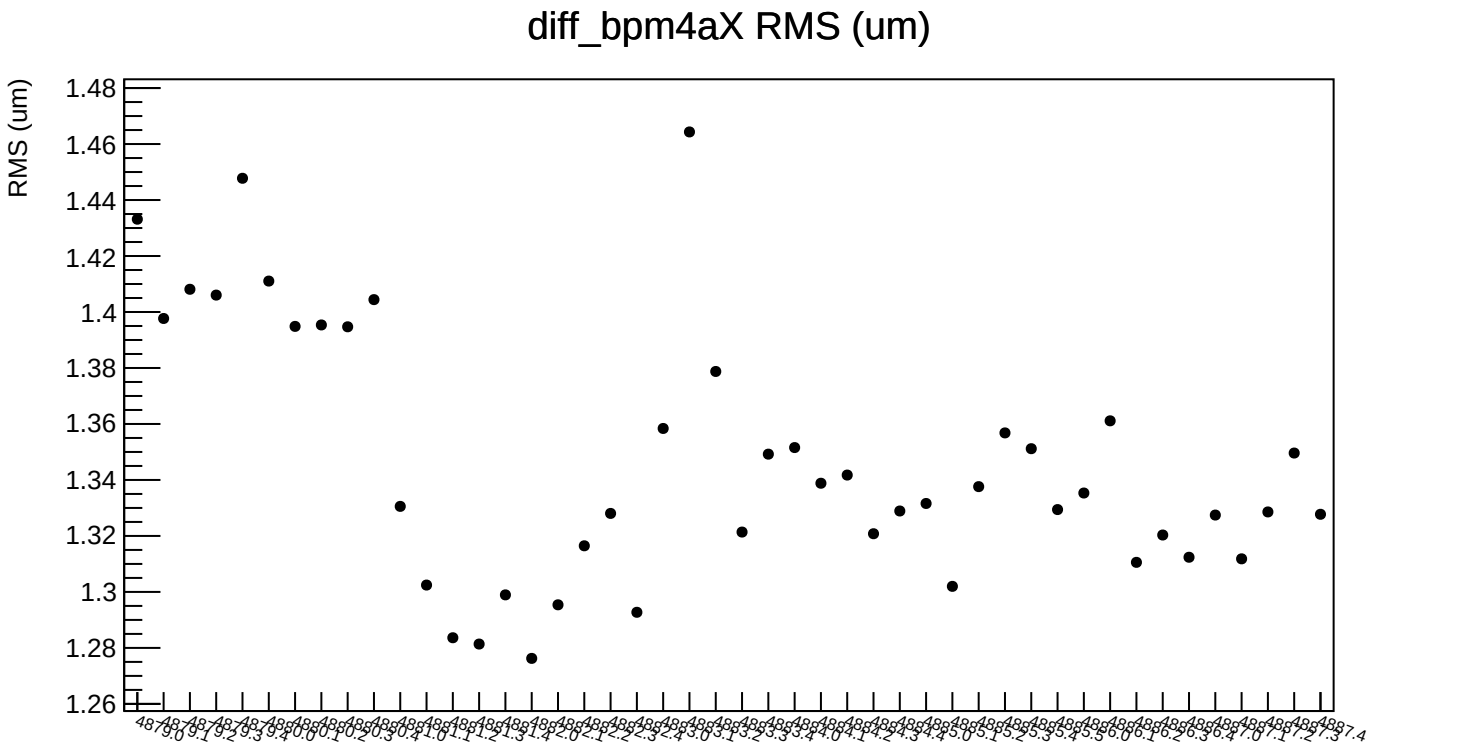

diff_bpmE (nm)
χ² / ndf 55.62 / 45
p0 −28.38 ± 11.01
200
100
0
−100
−200
−300
2
1
0
−1
−2
4879.0
4879.1
4879.2
4879.3
4879.4
4880.0
4880.1
4880.2
4880.3
4880.4
4881.0
4881.1
4881.2
4881.3
4881.4
4882.0
4882.1
4882.2
4882.3
4882.4
4883.0
4883.1
4883.2
4883.3
4883.4
4884.0
4884.1
4884.2
4884.3
4884.4
4885.0
4885.1
4885.2
4885.3
4885.4
4885.5
4886.0
4886.1
4886.2
4886.3
4886.4
4887.0
4887.1
4887.2
4887.3
4887.4

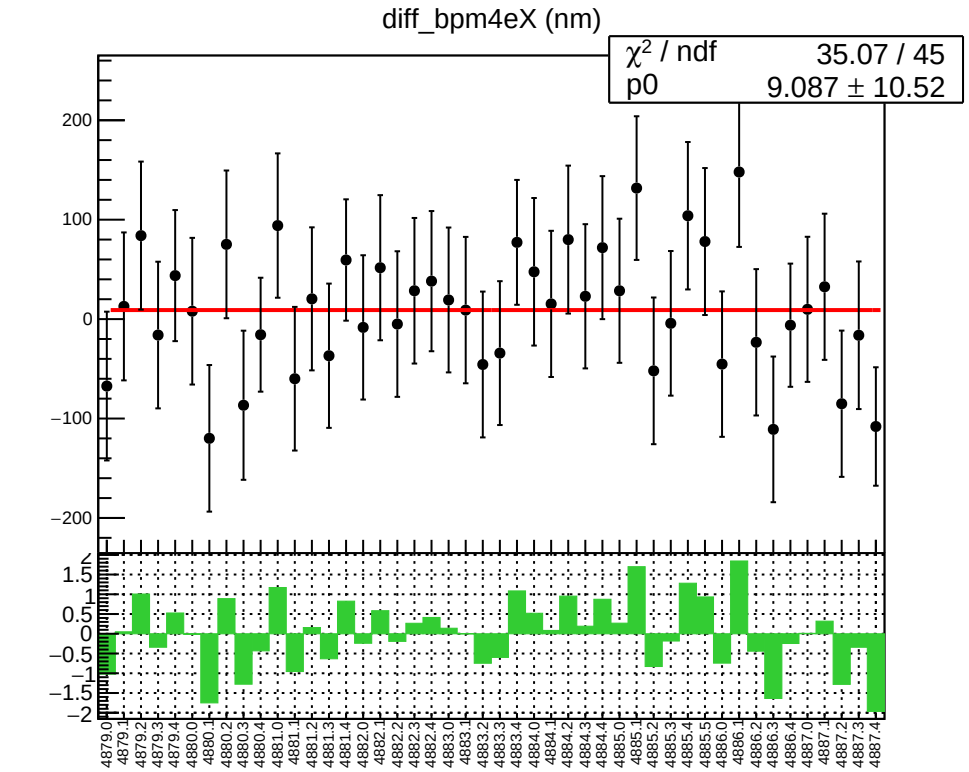

1D pull distribution
Mean −0.01839 ± 0.1621
Std Dev 1.099 ± 0.1146
Underflow 0
Overflow 0
χ² / ndf 7.862 / 6
Constant 7.132 ± 1.505
Mean −0.182 ± 0.245
Sigma 1.273 ± 0.226
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

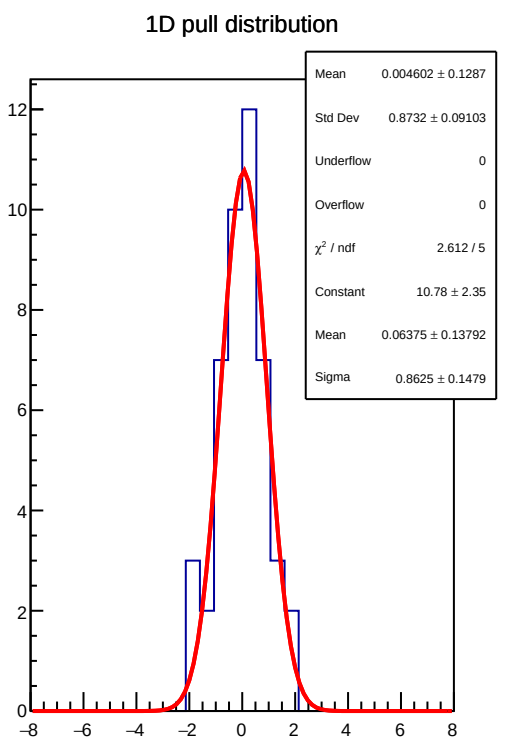

diff_bpmE RMS (um)
RMS (um)
8.4
8.2
8
7.8
7.6
7.4
7.2
7
6.8

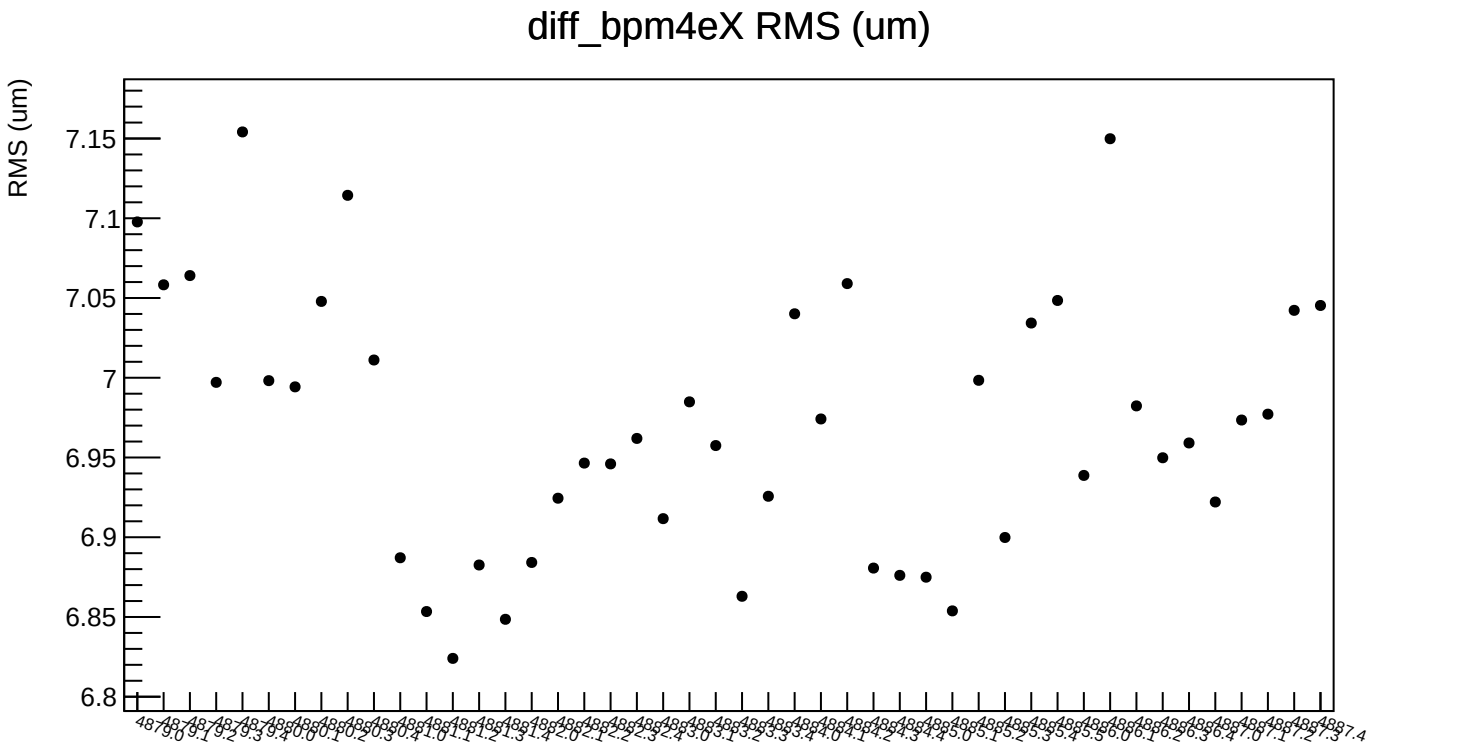

diff_bpm4aX (nm)
χ² / ndf 41.08 / 45
p0 −3.749 ± 2.03
40
20
0
−20
−40
2.5
1.5
0.5
−0.5
−1.5
4879.0
4879.1
4879.2
4879.3
4879.4
4880.0
4880.1
4880.2
4880.3
4880.4
4881.0
4881.1
4881.2
4881.3
4881.4
4882.0
4882.1
4882.2
4882.3
4882.4
4883.0
4883.1
4883.2
4883.3
4883.4
4884.0
4884.1
4884.2
4884.3
4884.4
4885.0
4885.1
4885.2
4885.3
4885.4
4885.5
4886.0
4886.1
4886.2
4886.3
4886.4
4887.0
4887.1
4887.2
4887.3
4887.4

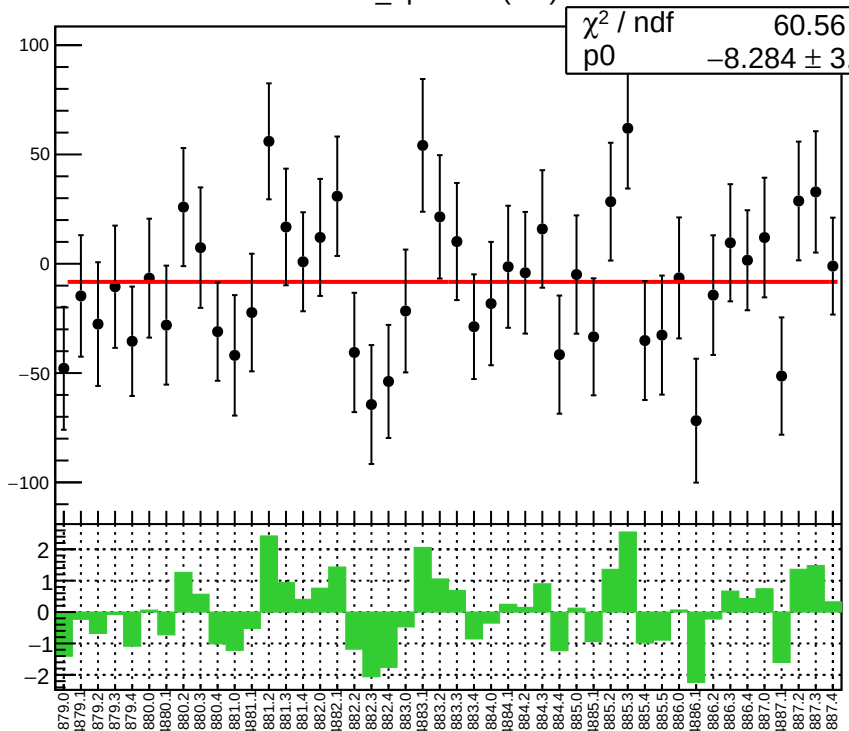

1D pull distribution
Mean 0.004619 ± 0.1393
Std Dev 0.945 ± 0.09852
Underflow 0
Overflow 0
χ² / ndf 3.698 / 6
Constant 9.981± 2.211
Mean −0.1002 ± 0.1676
Sigma 0.9185 ± 0.1639
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

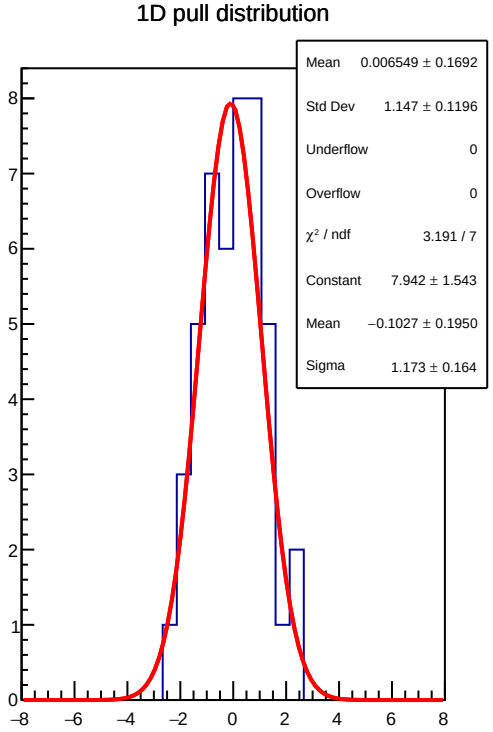

diff_bpm4aX RMS (um)
RMS (um)
1.48
1.46
1.44
1.42
1.4
1.38
1.36
1.34
1.32
1.3
1.28
1.26

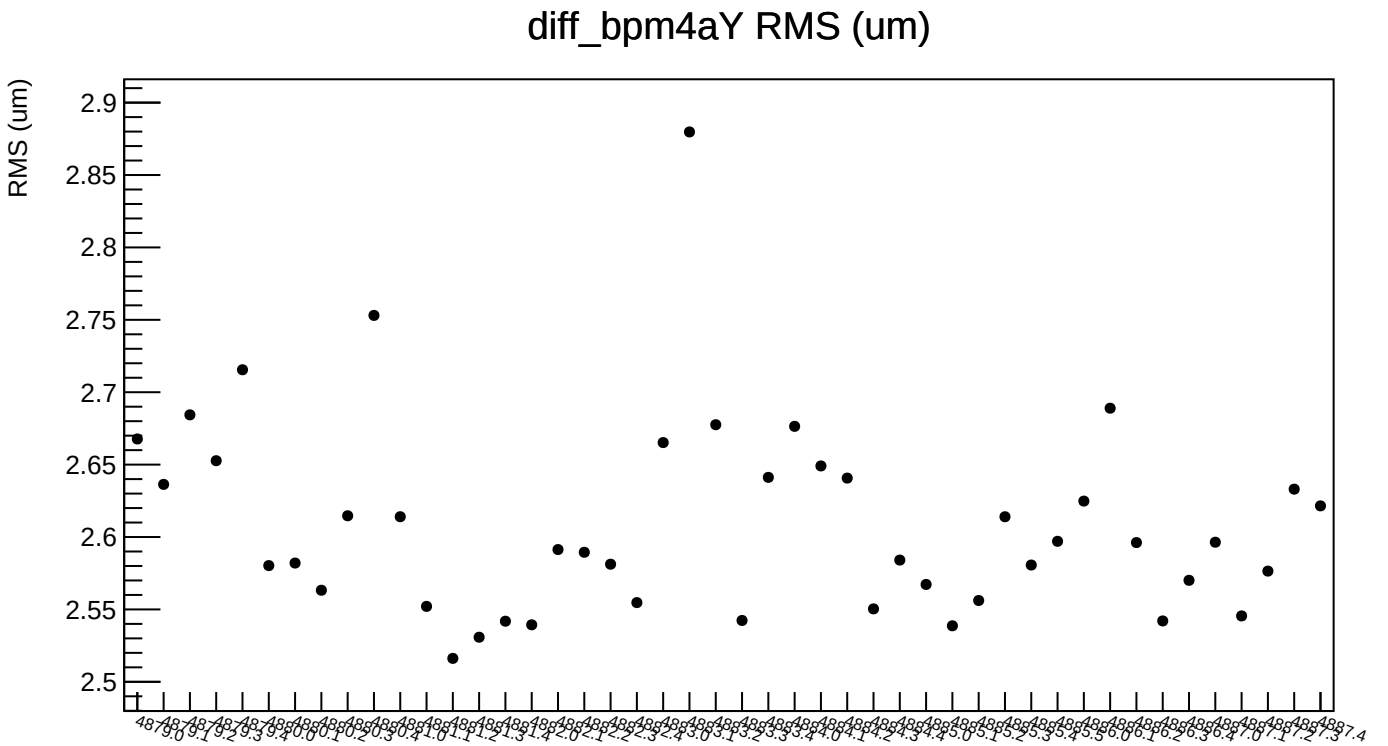

diff_bpm4eX (nm)
χ² / ndf 35.07 / 45
p0 9.087 ± 10.52

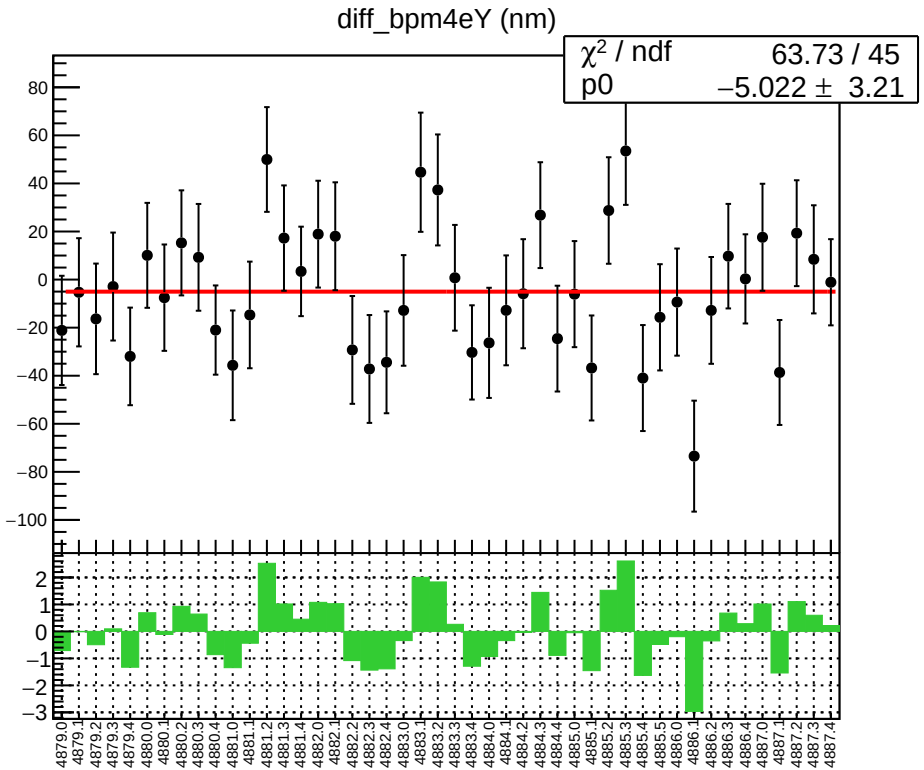

1D pull distribution
Mean 0.004602 ± 0.1287
Std Dev 0.8732 ± 0.09103
Underflow 0
Overflow 0
χ² / ndf 2.612 / 5
Constant 10.78 ± 2.35
Mean 0.06375 ± 0.13792
Sigma 0.8625 ± 0.1479

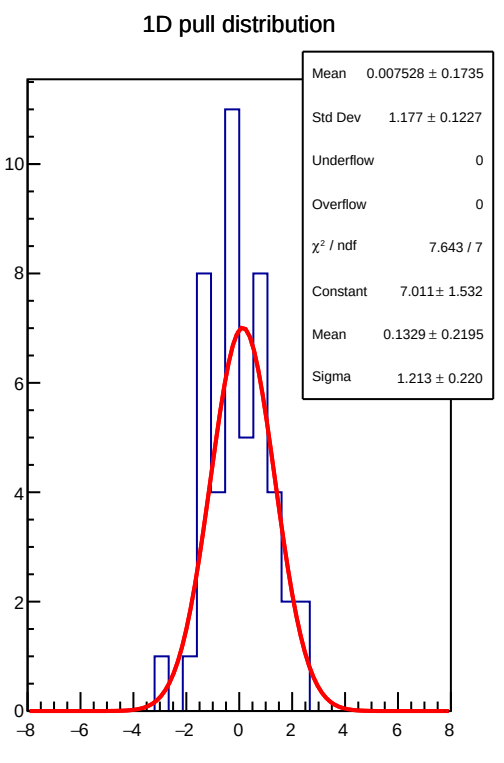

diff_bpm4eX RMS (um)
RMS (um)
7.15
7.1
7.05
7
6.95
6.9
6.85
6.8

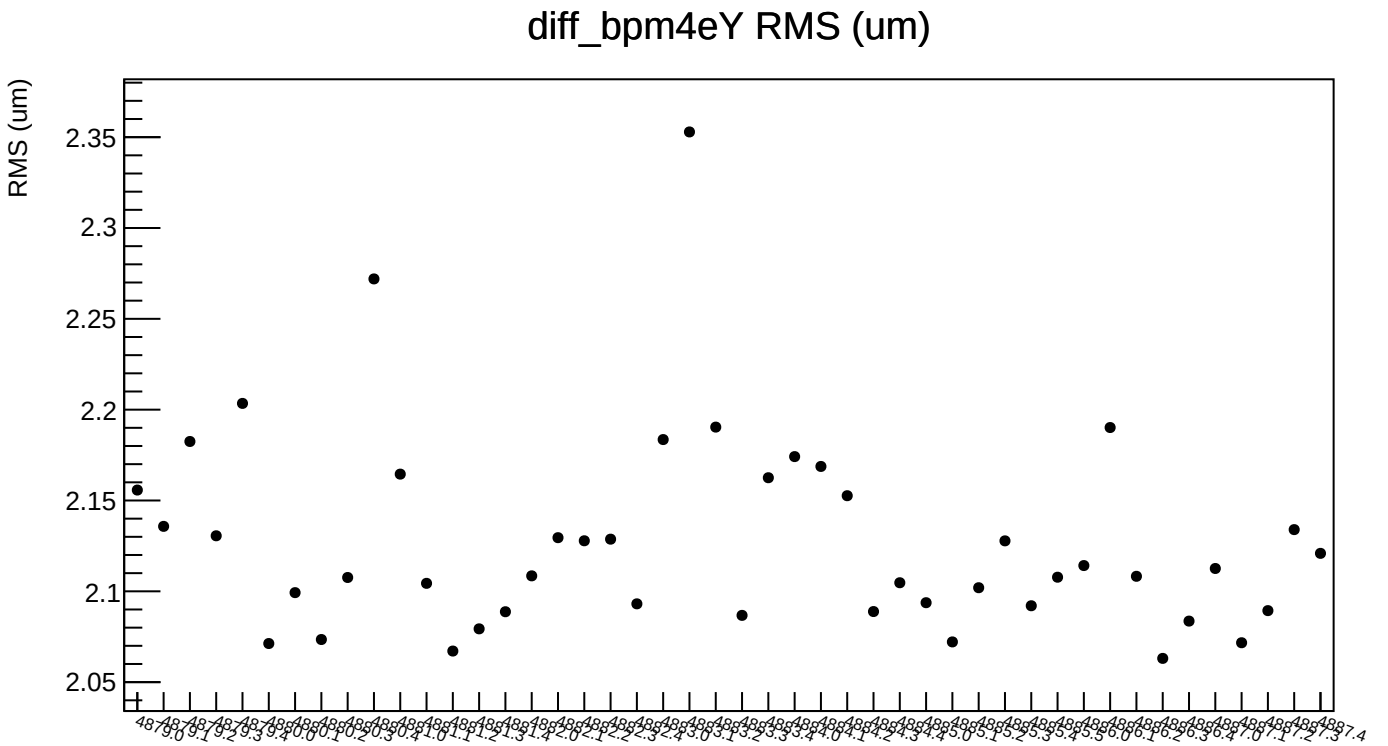

diff_bpm4aY (nm)
χ² / ndf 60.56 / 45
p0 −8.284 ± 3.937
100
50
0
−50
−100
2
1
0
−1
−2
4879.0
4879.1
4879.2
4879.3
4879.4
4880.0
4880.1
4880.2
4880.3
4880.4
4881.0
4881.1
4881.2
4881.3
4881.4
4882.0
4882.1
4882.2
4882.3
4882.4
4883.0
4883.1
4883.2
4883.3
4883.4
4884.0
4884.1
4884.2
4884.3
4884.4
4885.0
4885.1
4885.2
4885.3
4885.4
4885.5
4886.0
4886.1
4886.2
4886.3
4886.4
4887.0
4887.1
4887.2
4887.3
4887.4

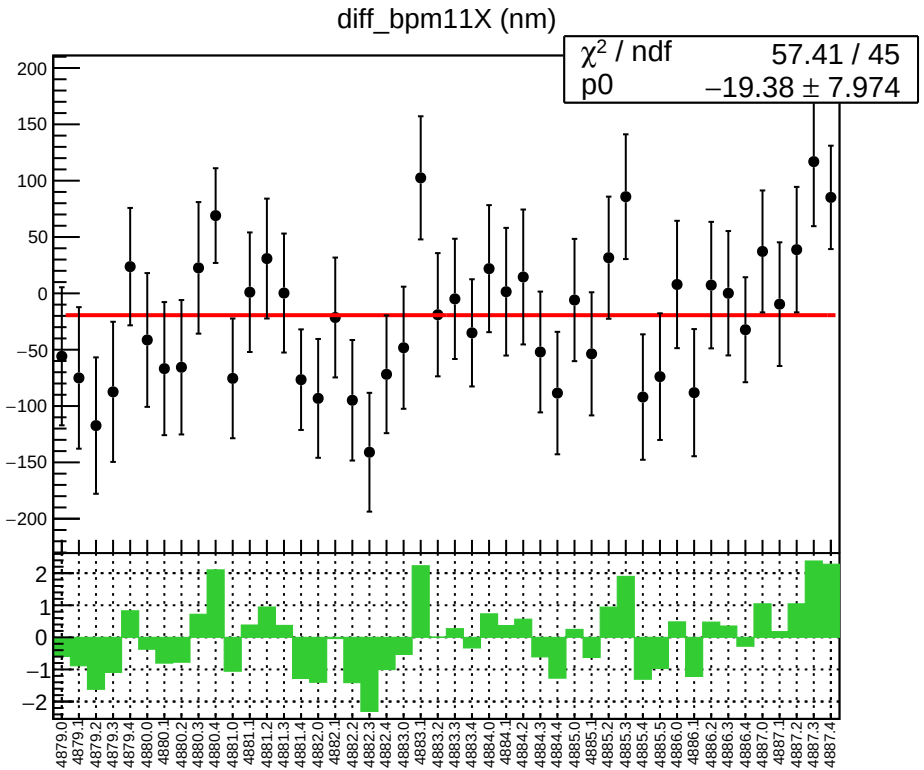

1D pull distribution
Mean 0.006549 ± 0.1692
Std Dev 1.147 ± 0.1196
Underflow 0
Overflow 0
χ² / ndf 3.191 / 7
Constant 7.942 ± 1.543
Mean −0.1027 ± 0.1950
Sigma 1.173 ± 0.164
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

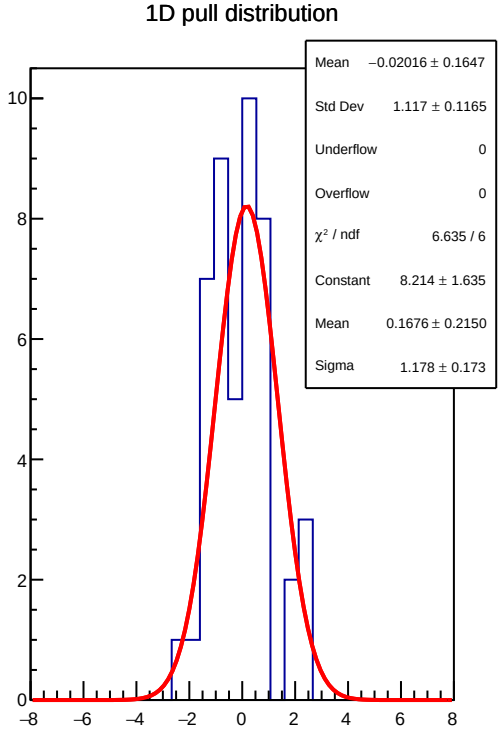

diff_bpm4aY RMS (um)
RMS (um)
2.9
2.85
2.8
2.75
2.7
2.65
2.6
2.55
2.5

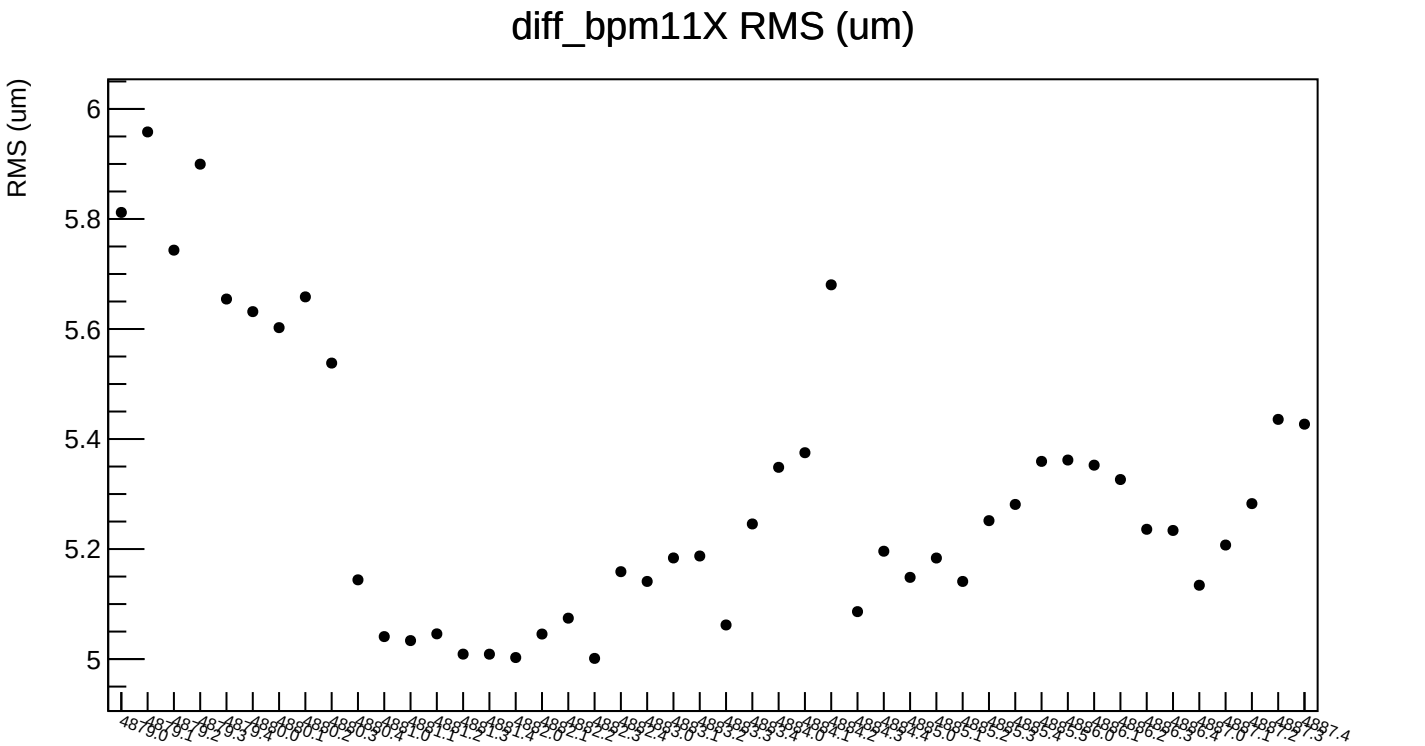

diff_bpm4eY (nm)
χ² / ndf 63.73 / 45
p0 −5.022 ± 3.21

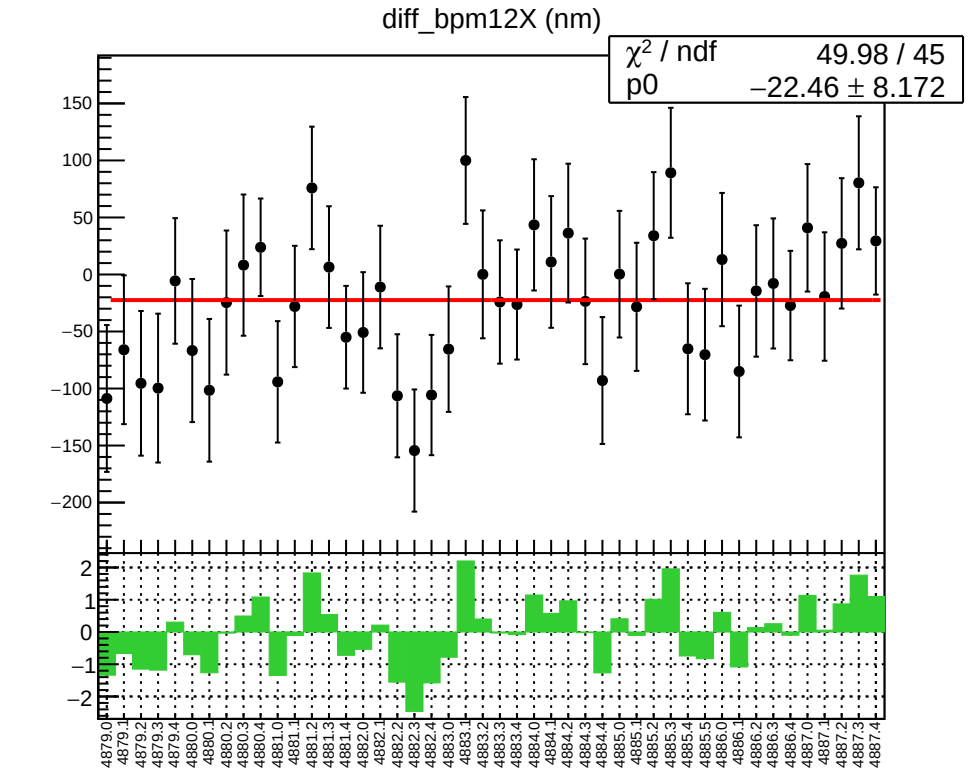

1D pull distribution
Mean 0.007528 ± 0.1735
Std Dev 1.177 ± 0.1227
Underflow 0
Overflow 0
χ² / ndf 7.643 / 7
Constant 7.011 ± 1.532
Mean 0.1329 ± 0.2195
Sigma 1.213 ± 0.220

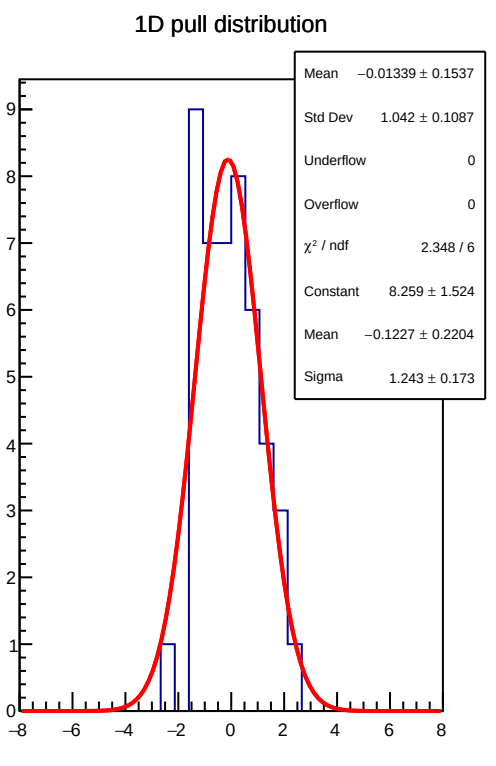

diff_bpm4eY RMS (um)
RMS (um)
2.35
2.3
2.25
2.2
2.15
2.1
2.05

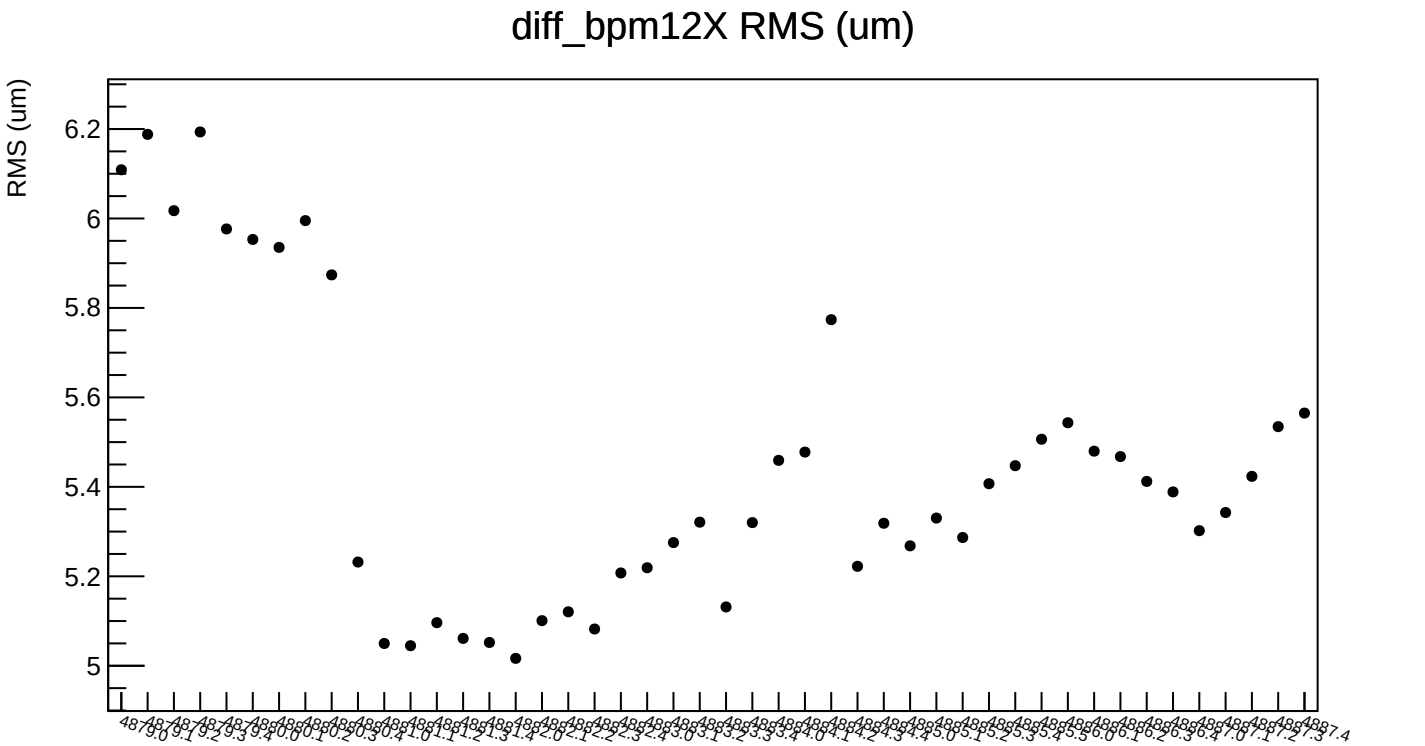

diff_bpm11X (nm)
χ² / ndf 57.41 / 45
p0 −19.38 ± 7.974
200
150
100
50
0
−50
−100
−150
−200
2
1
0
−1
−2
4879.0
4879.1
4879.2
4879.3
4879.4
4880.0
4880.1
4880.2
4880.3
4880.4
4881.0
4881.1
4881.2
4881.3
4881.4
4882.0
4882.1
4882.2
4882.3
4882.4
4883.0
4883.1
4883.2
4883.3
4883.4
4884.0
4884.1
4884.2
4884.3
4884.4
4885.0
4885.1
4885.2
4885.3
4885.4
4885.5
4886.0
4886.1
4886.2
4886.3
4886.4
4887.0
4887.1
4887.2
4887.3
4887.4

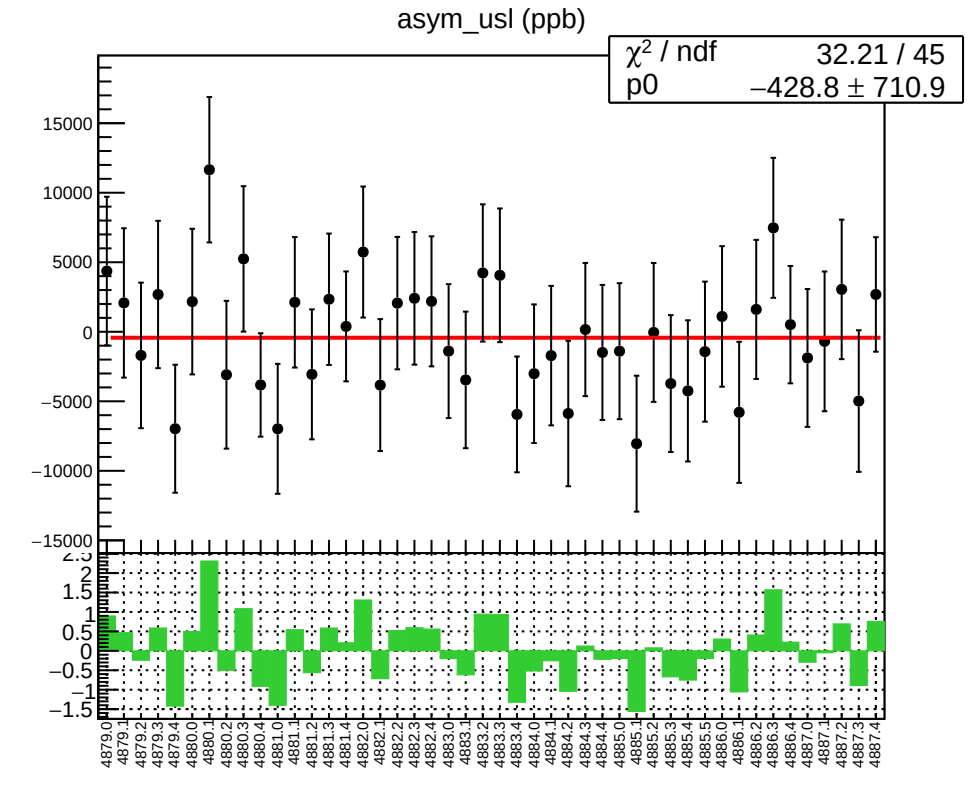

1D pull distribution
Mean −0.02016 ± 0.1647
Std Dev 1.117 ± 0.1165
Underflow 0
Overflow 0
χ² / ndf 6.635 / 6
Constant 8.214 ± 1.635
Mean 0.1676 ± 0.2150
Sigma 1.178 ± 0.173
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

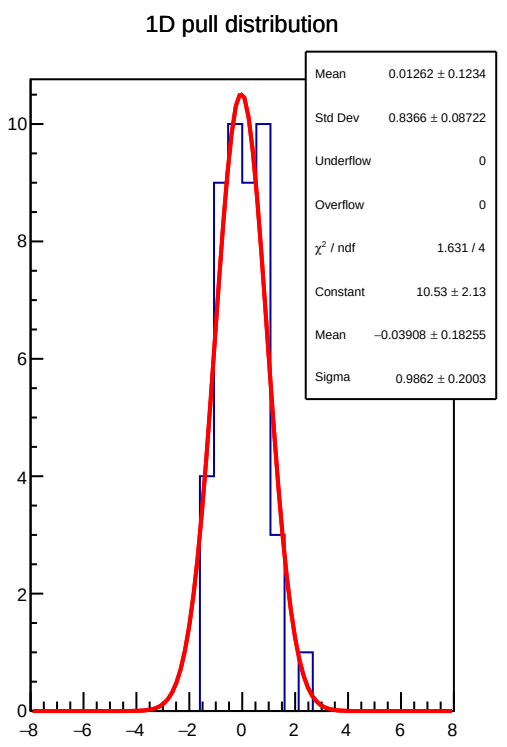

diff_bpm11X RMS (um)
RMS (um)
6
5.8
5.6
5.4
5.2
5

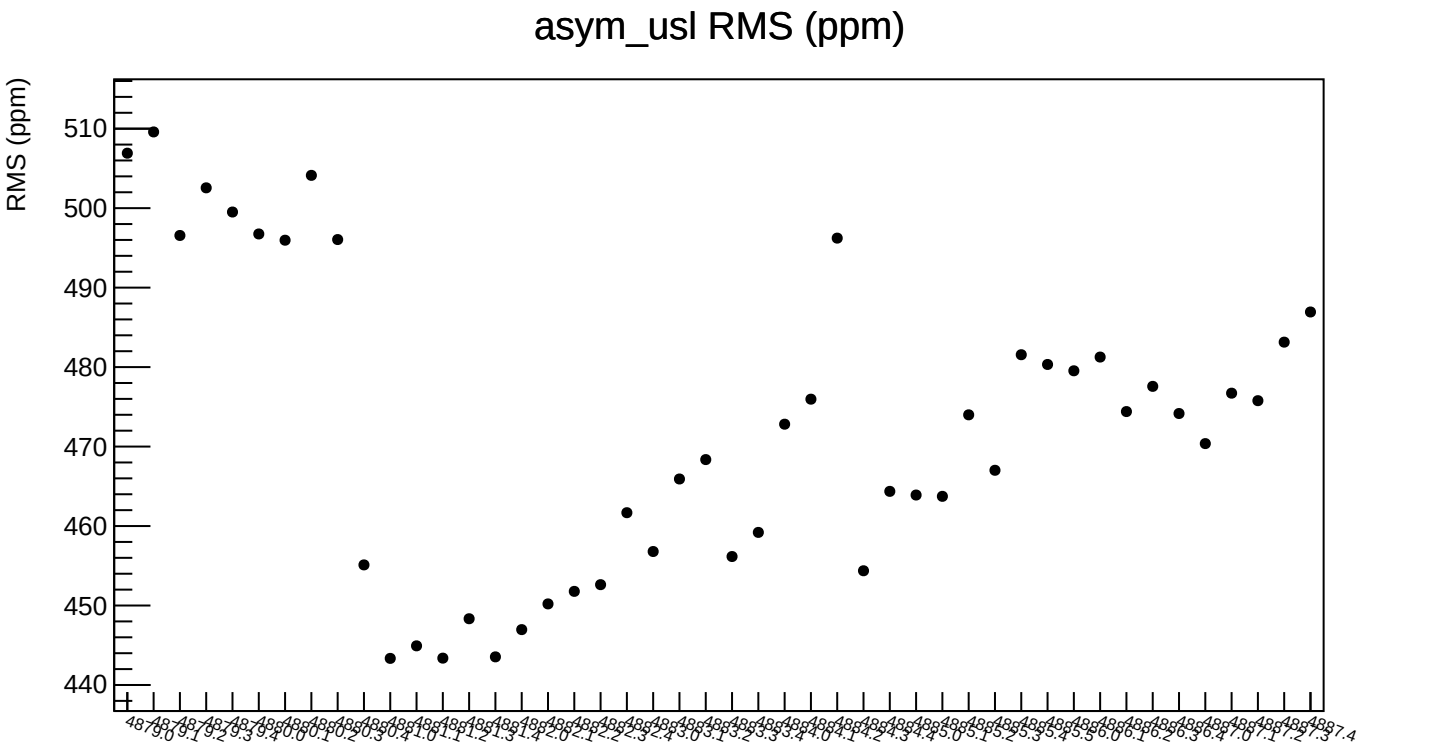

diff_bpm12X (nm)
χ² / ndf 49.98 / 45
p0 −22.46 ± 8.172
150
100
50
0
−50
−100
−150
−200
2
1
0
−1
−2
4879.0
4879.1
4879.2
4879.3
4879.4
4880.0
4880.1
4880.2
4880.3
4880.4
4881.0
4881.1
4881.2
4881.3
4881.4
4882.0
4882.1
4882.2
4882.3
4882.4
4883.0
4883.1
4883.2
4883.3
4883.4
4884.0
4884.1
4884.2
4884.3
4884.4
4885.0
4885.1
4885.2
4885.3
4885.4
4885.5
4886.0
4886.1
4886.2
4886.3
4886.4
4887.0
4887.1
4887.2
4887.3
4887.4

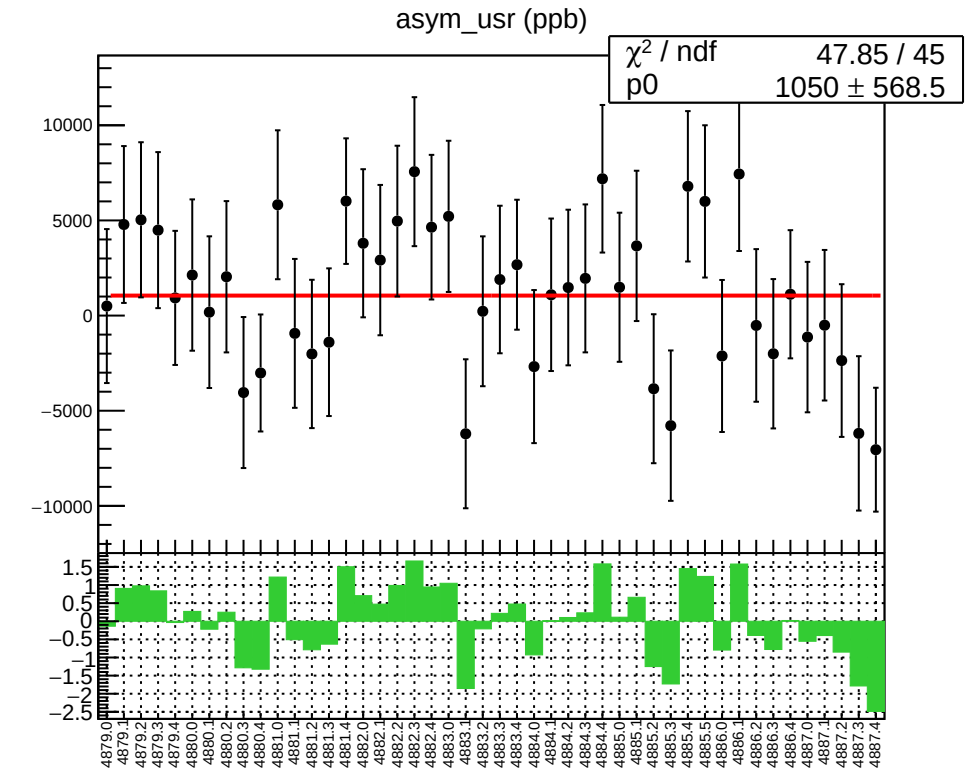

1D pull distribution
Mean −0.01339 ± 0.1537
Std Dev 1.042 ± 0.1087
Underflow 0
Overflow 0
χ² / ndf 2.348 / 6
Constant 8.259 ± 1.524
Mean −0.1227 ± 0.2204
Sigma 1.243 ± 0.173
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

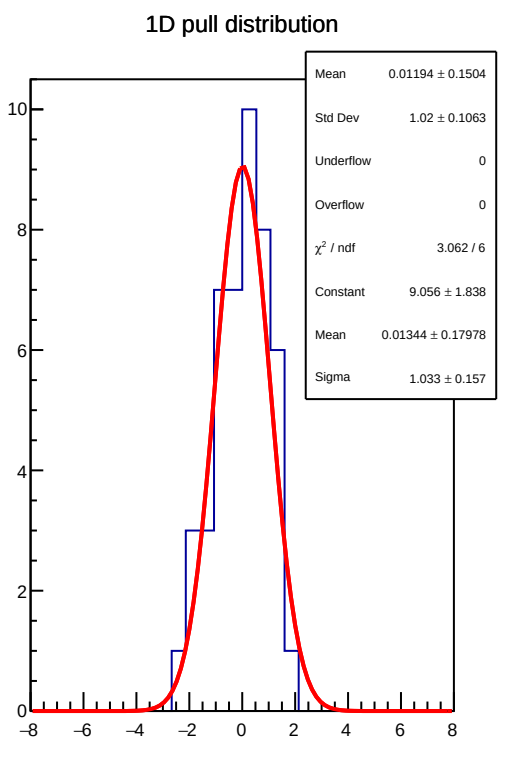

diff_bpm12X RMS (um)
RMS (um)
6.2
6
5.8
5.6
5.4
5.2
5

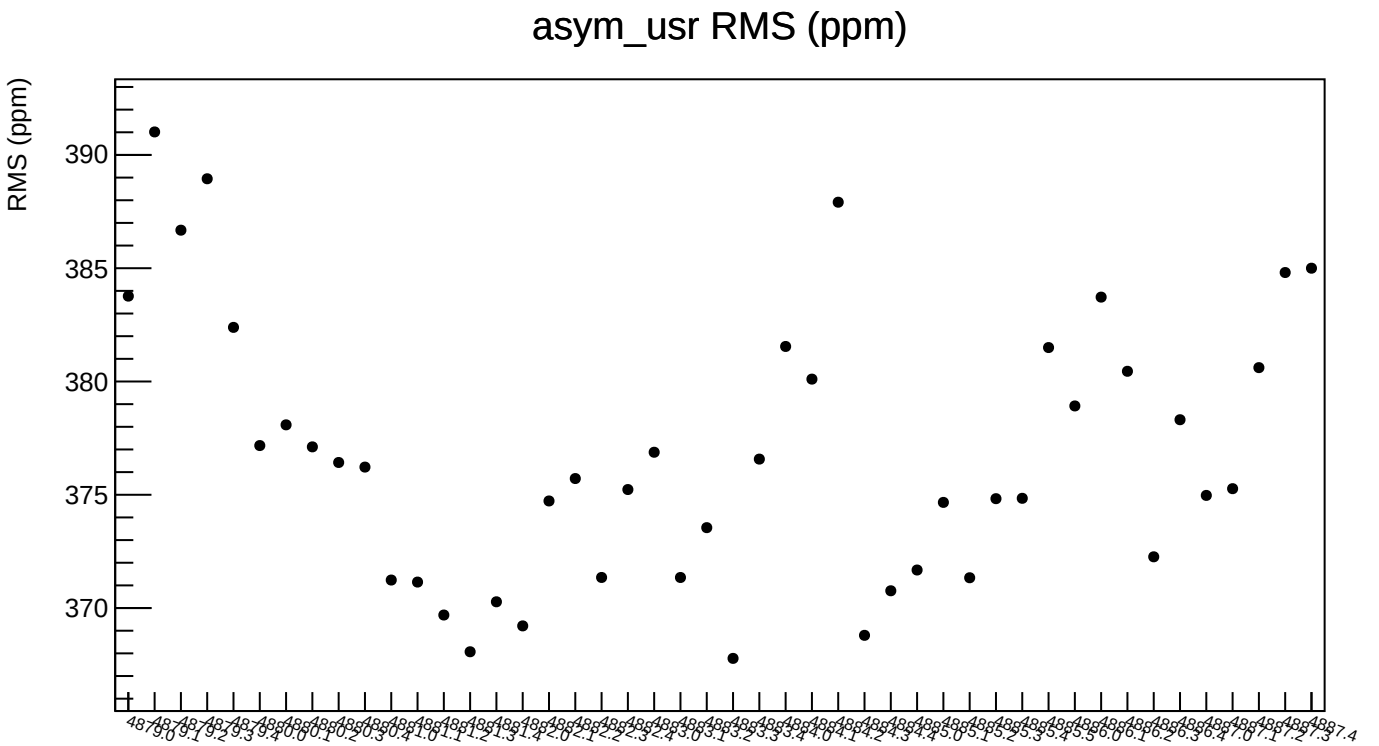

asym_usl (ppb)
χ² / ndf 32.21 / 45
p0 −428.8 ± 710.9
15000
10000
5000
0
−5000
−10000
−15000
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
4879.0
4879.1
4879.2
4879.3
4879.4
4880.0
4880.1
4880.2
4880.3
4880.4
4881.0
4881.1
4881.2
4881.3
4881.4
4882.0
4882.1
4882.2
4882.3
4882.4
4883.0
4883.1
4883.2
4883.3
4883.4
4884.0
4884.1
4884.2
4884.3
4884.4
4885.0
4885.1
4885.2
4885.3
4885.4
4885.5
4886.0
4886.1
4886.2
4886.3
4886.4
4887.0
4887.1
4887.2
4887.3
4887.4

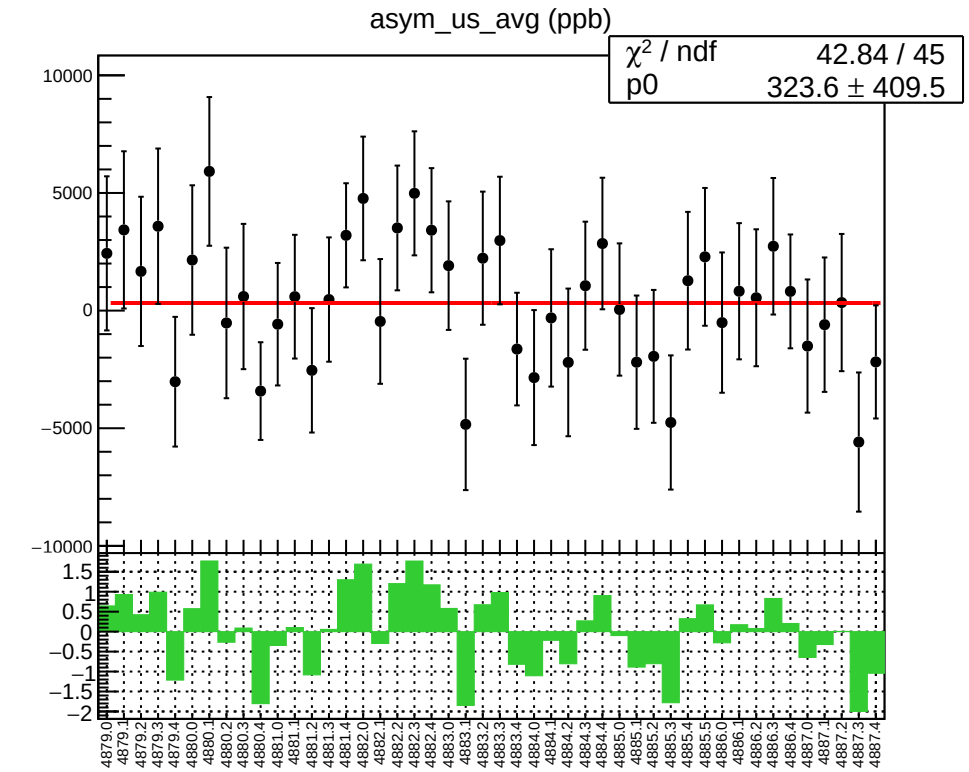

1D pull distribution
Mean 0.01262 ± 0.1234
Std Dev 0.8366 ± 0.08722
Underflow 0
Overflow 0
χ² / ndf 1.631 / 4
Constant 10.53 ± 2.13
Mean −0.03908 ± 0.18255
Sigma 0.9862 ± 0.2003
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

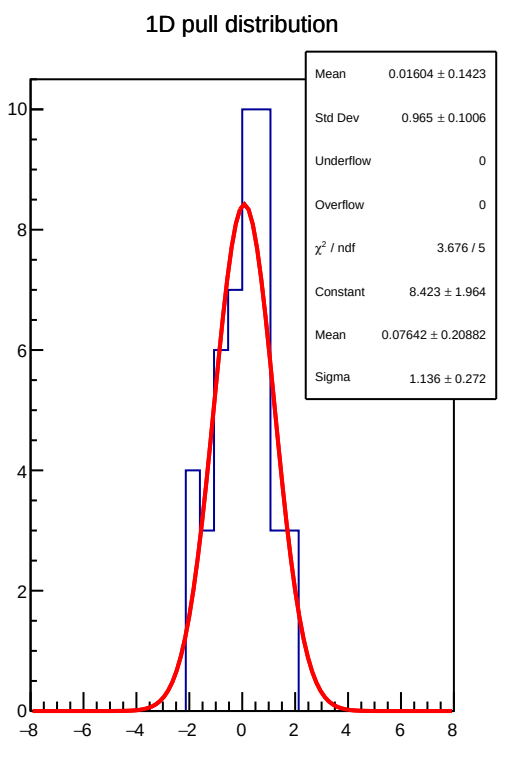

asym_usl RMS (ppm)
RMS (ppm)
510
500
490
480
470
460
450
440

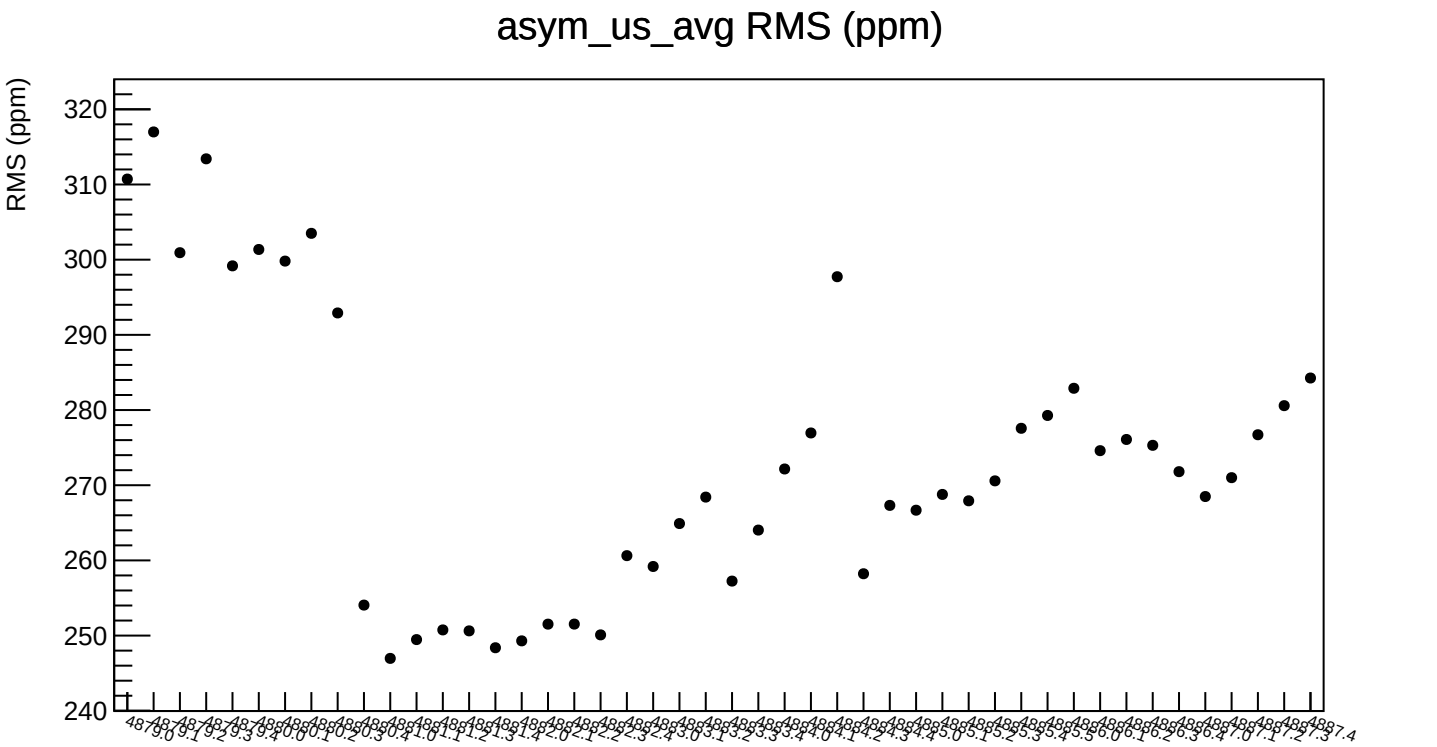

asym_usr (ppb)
χ² / ndf 47.85 / 45
p0 1050 ± 568.5
10000
5000
0
−5000
−10000
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
4879.0
4879.1
4879.2
4879.3
4879.4
4880.0
4880.1
4880.2
4880.3
4880.4
4881.0
4881.1
4881.2
4881.3
4881.4
4882.0
4882.1
4882.2
4882.3
4882.4
4883.0
4883.1
4883.2
4883.3
4883.4
4884.0
4884.1
4884.2
4884.3
4884.4
4885.0
4885.1
4885.2
4885.3
4885.4
4885.5
4886.0
4886.1
4886.2
4886.3
4886.4
4887.0
4887.1
4887.2
4887.3
4887.4

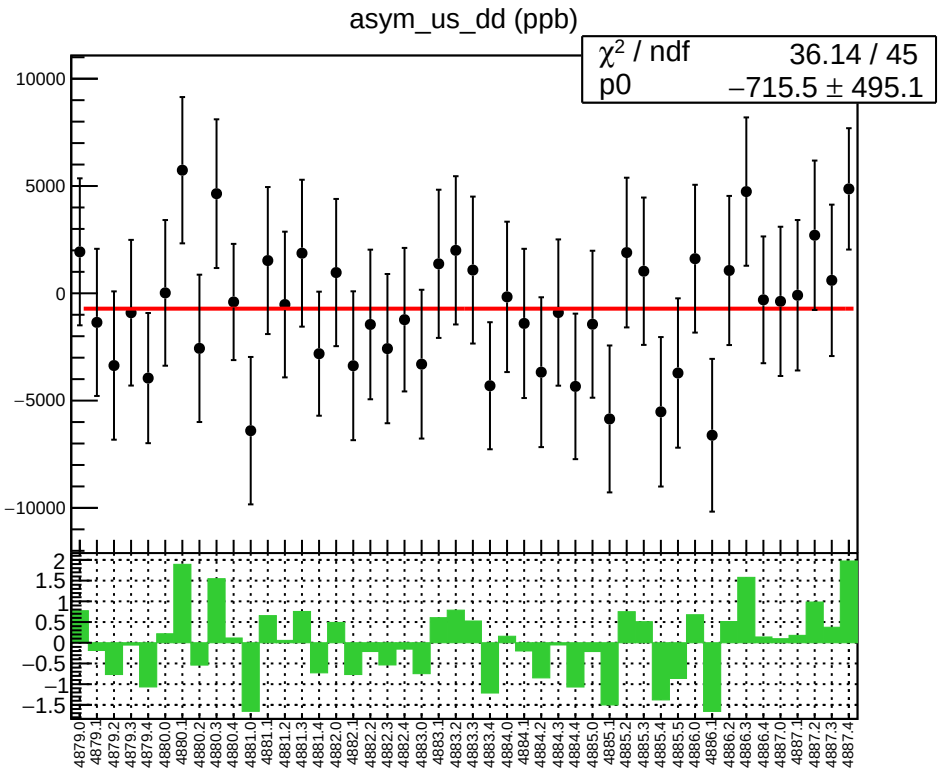

1D pull distribution
Mean 0.01194 ± 0.1504
Std Dev 1.02 ± 0.1063
Underflow 0
Overflow 0
χ² / ndf 3.062 / 6
Constant 9.056 ± 1.838
Mean 0.01344 ± 0.17978
Sigma 1.033 ± 0.157
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

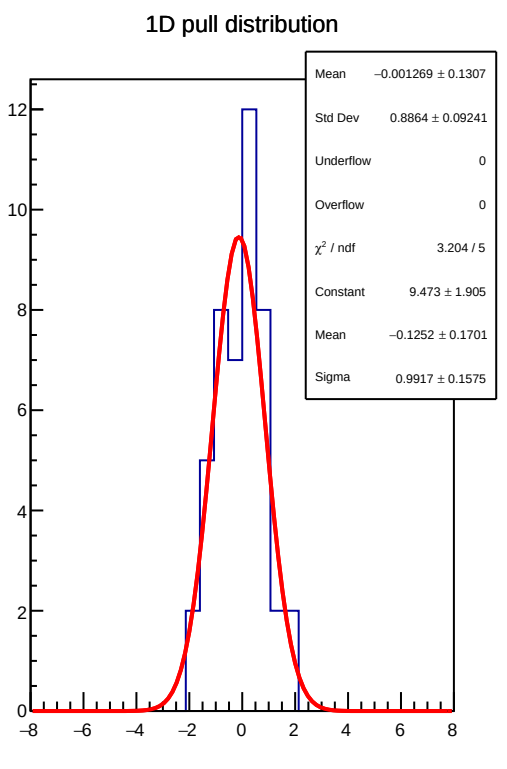

asym_usr RMS (ppm)
RMS (ppm)
390
385
380
375
370

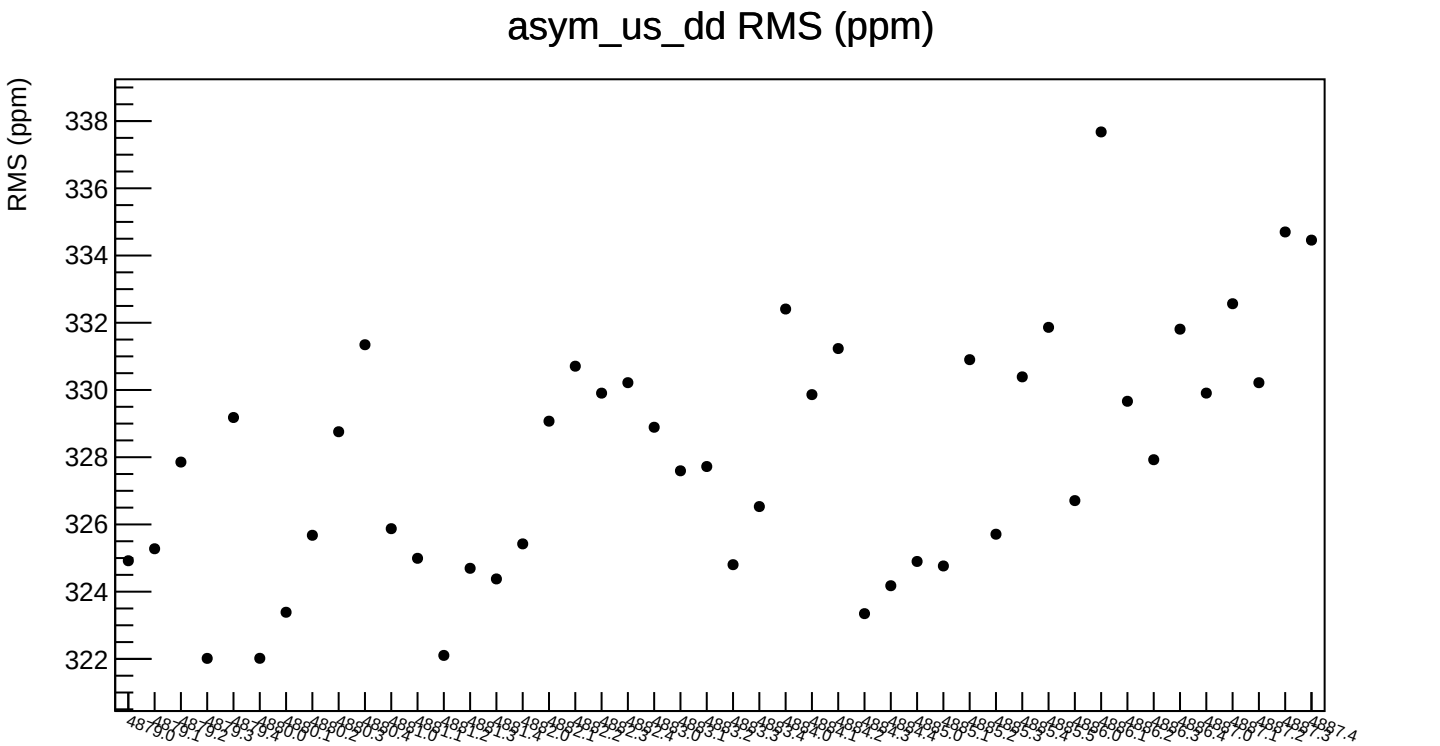

asym_us_avg (ppb)
χ² / ndf 42.84 / 45
p0 323.6 ± 409.5
10000
5000
0
−5000
−10000
1.5
1
0.5
0
−0.5
−1
−1.5
−2
4879.0
4879.1
4879.2
4879.3
4879.4
4880.0
4880.1
4880.2
4880.3
4880.4
4881.0
4881.1
4881.2
4881.3
4881.4
4882.0
4882.1
4882.2
4882.3
4882.4
4883.0
4883.1
4883.2
4883.3
4883.4
4884.0
4884.1
4884.2
4884.3
4884.4
4885.0
4885.1
4885.2
4885.3
4885.4
4885.5
4886.0
4886.1
4886.2
4886.3
4886.4
4887.0
4887.1
4887.2
4887.3
4887.4

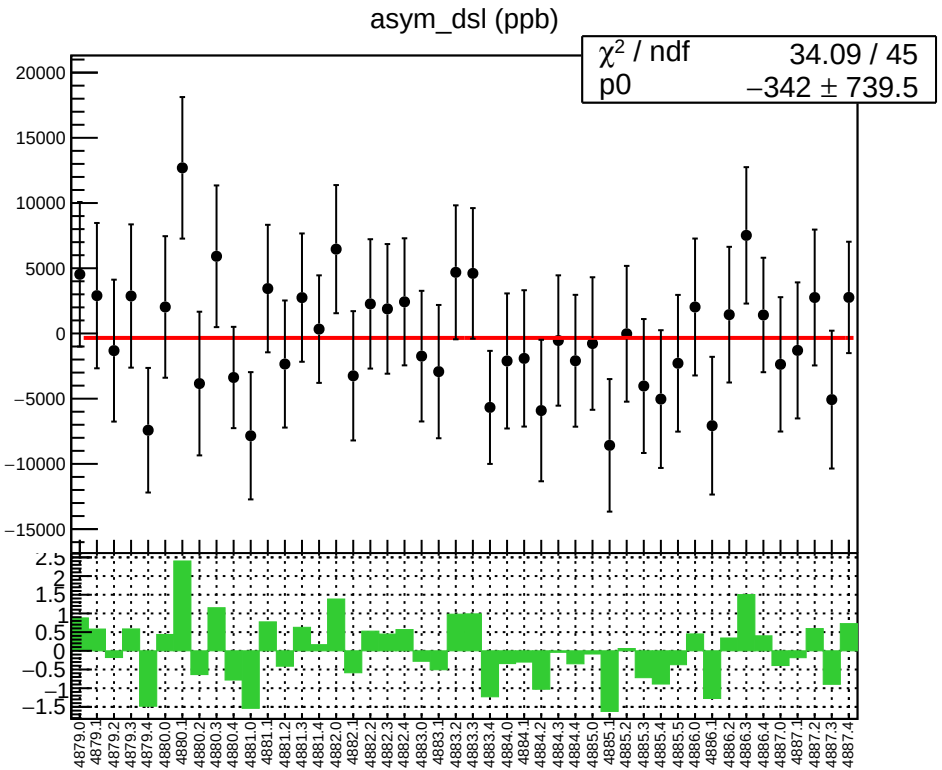

1D pull distribution
Mean 0.01604 ± 0.1423
Std Dev 0.965 ± 0.1006
Underflow 0
Overflow 0
χ² / ndf 3.676 / 5
Constant 8.423 ± 1.964
Mean 0.07642 ± 0.20882
Sigma 1.136 ± 0.272
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

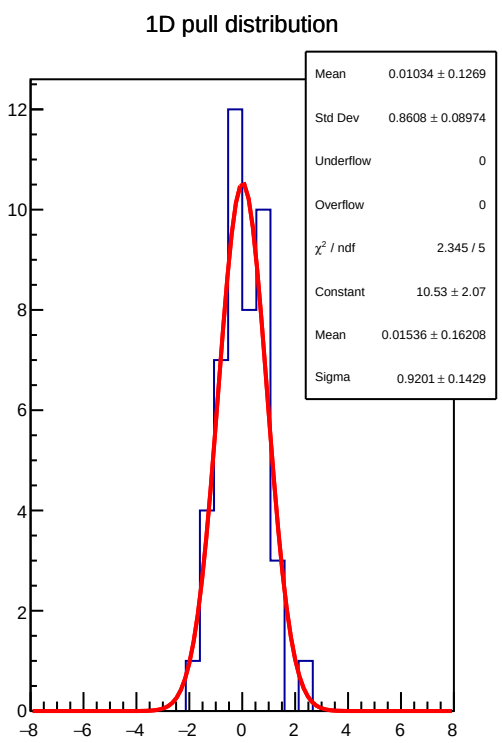

asym_us_avg RMS (ppm)
RMS (ppm)
320
310
300
290
280
270
260
250
240

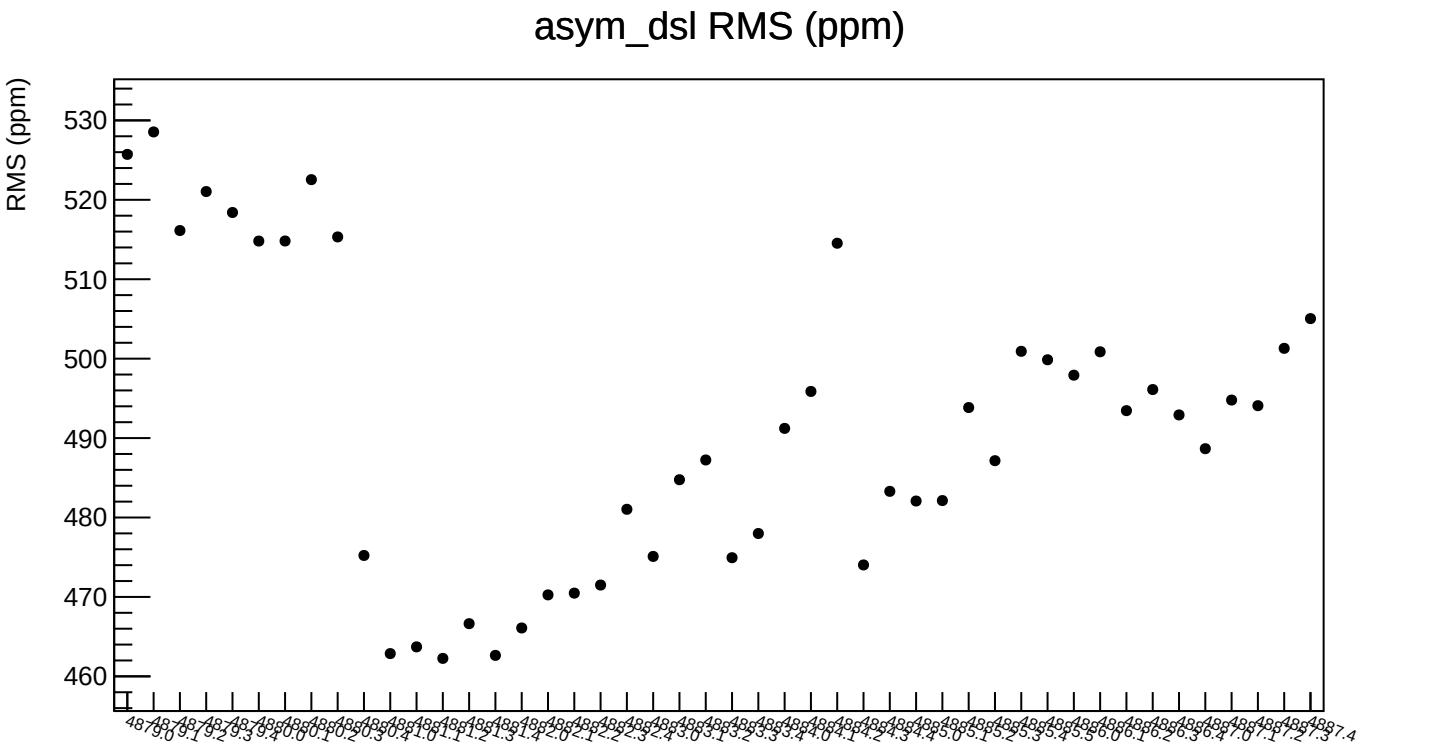

asym_us_dd (ppb)
χ² / ndf 36.14 / 45
p0 −715.5 ± 495.1
10000
5000
0
−5000
−10000
2
1.5
1
0.5
0
−0.5
−1
−1.5
4879.0
4879.1
4879.2
4879.3
4879.4
4880.0
4880.1
4880.2
4880.3
4880.4
4881.0
4881.1
4881.2
4881.3
4881.4
4882.0
4882.1
4882.2
4882.3
4882.4
4883.0
4883.1
4883.2
4883.3
4883.4
4884.0
4884.1
4884.2
4884.3
4884.4
4885.0
4885.1
4885.2
4885.3
4885.4
4885.5
4886.0
4886.1
4886.2
4886.3
4886.4
4887.0
4887.1
4887.2
4887.3
4887.4

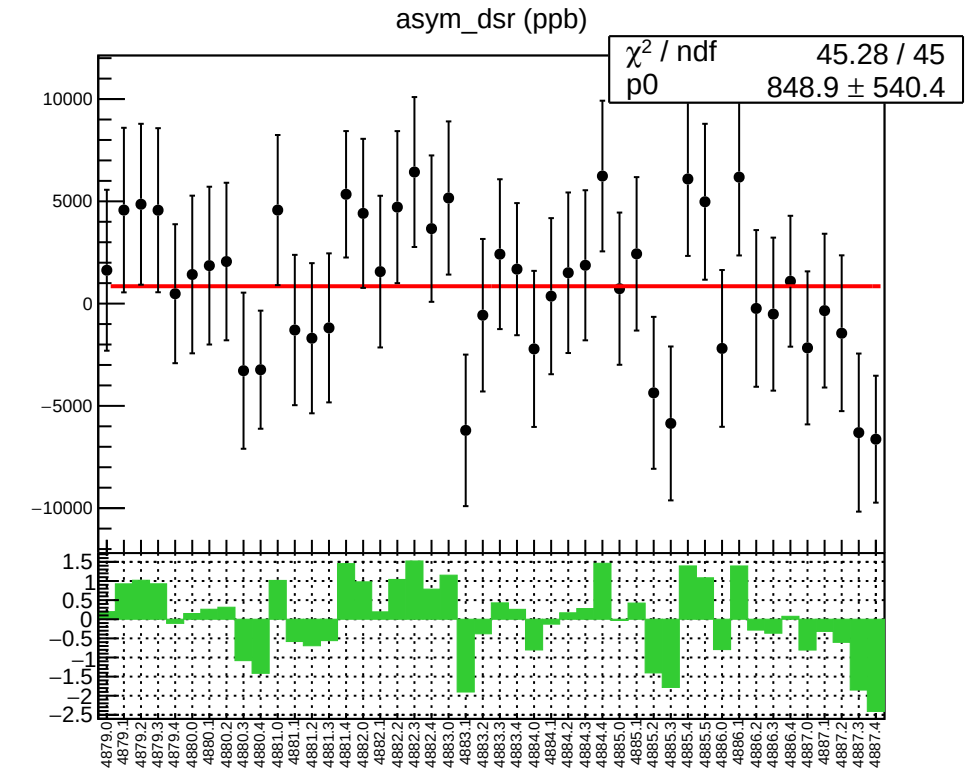

1D pull distribution
Mean −0.001269 ± 0.1307
Std Dev 0.8864 ± 0.09241
Underflow 0
Overflow 0
χ² / ndf 3.204 / 5
Constant 9.473 ± 1.905
Mean −0.1252 ± 0.1701
Sigma 0.9917 ± 0.1575
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

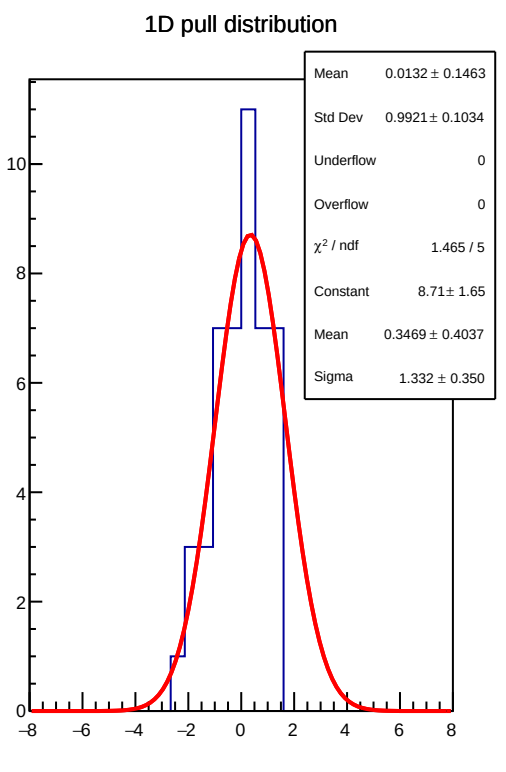

asym_us_dd RMS (ppm)
RMS (ppm)
338
336
334
332
330
328
326
324
322

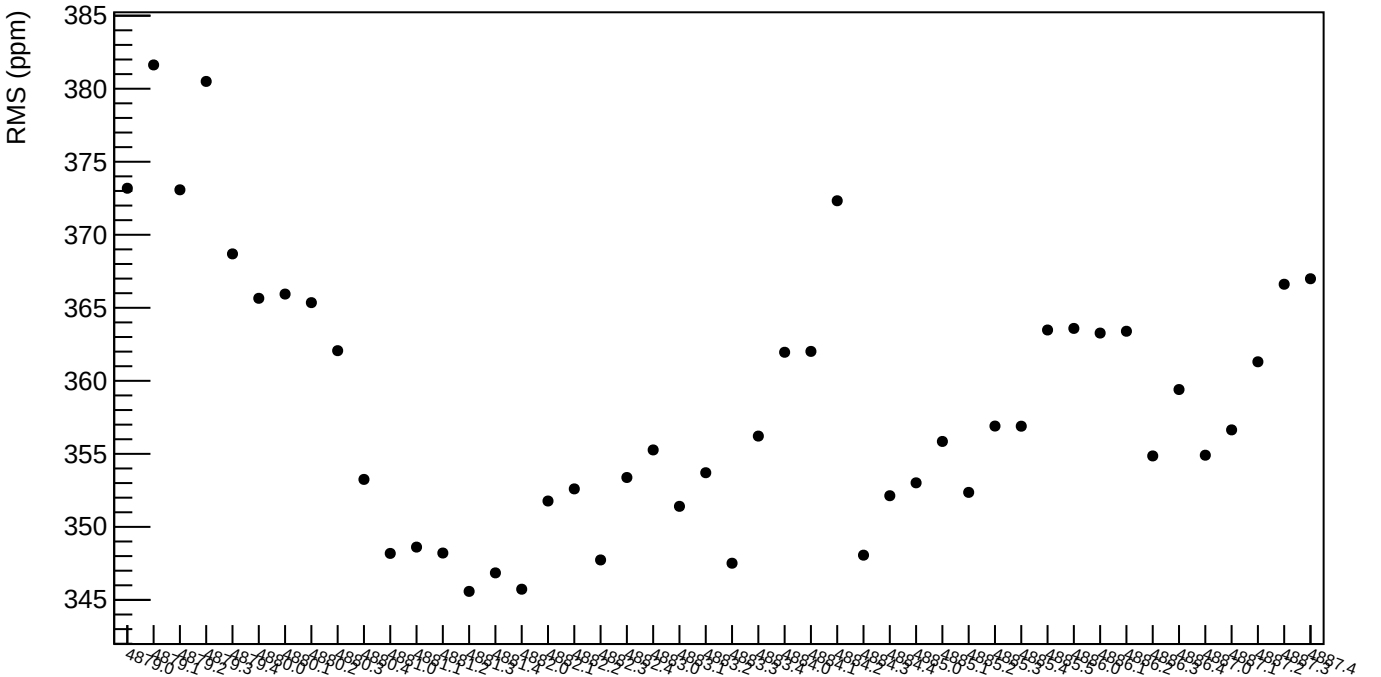

asym_dsl (ppb)
χ² / ndf 34.09 / 45
p0 −342 ± 739.5
20000
15000
10000
5000
0
−5000
−10000
−15000
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
4879.0
4879.1
4879.2
4879.3
4879.4
4880.0
4880.1
4880.2
4880.3
4880.4
4881.0
4881.1
4881.2
4881.3
4881.4
4882.0
4882.1
4882.2
4882.3
4882.4
4883.0
4883.1
4883.2
4883.3
4883.4
4884.0
4884.1
4884.2
4884.3
4884.4
4885.0
4885.1
4885.2
4885.3
4885.4
4885.5
4886.0
4886.1
4886.2
4886.3
4886.4
4887.0
4887.1
4887.2
4887.3
4887.4

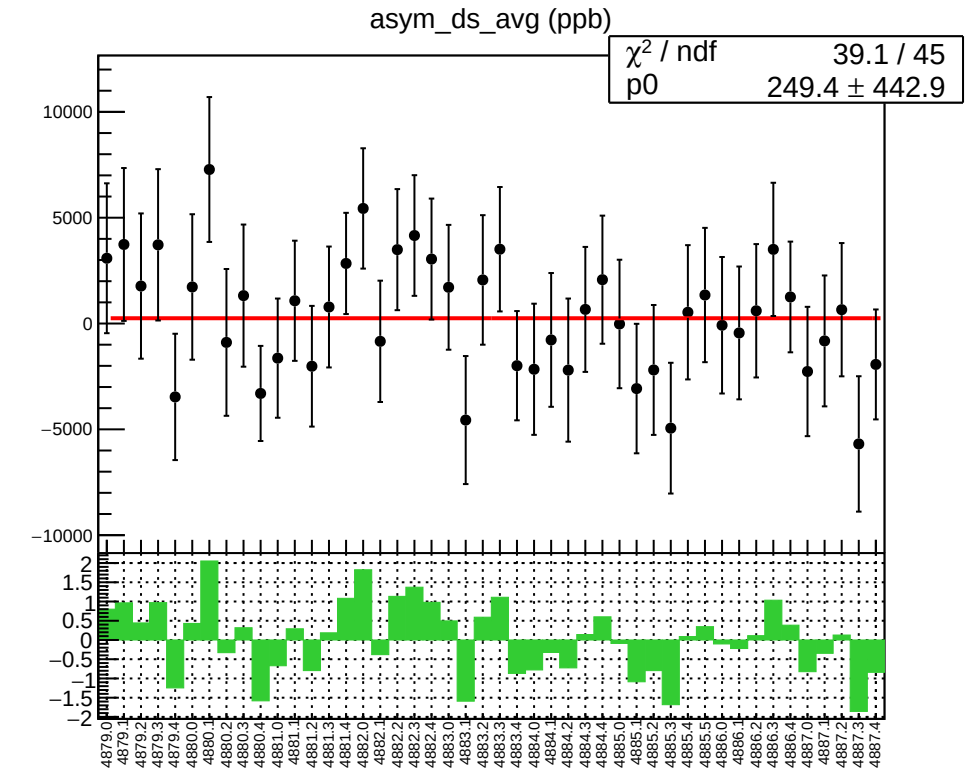

1D pull distribution
Mean 0.01034 ± 0.1269
Std Dev 0.8608 ± 0.08974
Underflow 0
Overflow 0
χ² / ndf 2.345 / 5
Constant 10.53 ± 2.07
Mean 0.01536 ± 0.16208
Sigma 0.9201 ± 0.1429
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

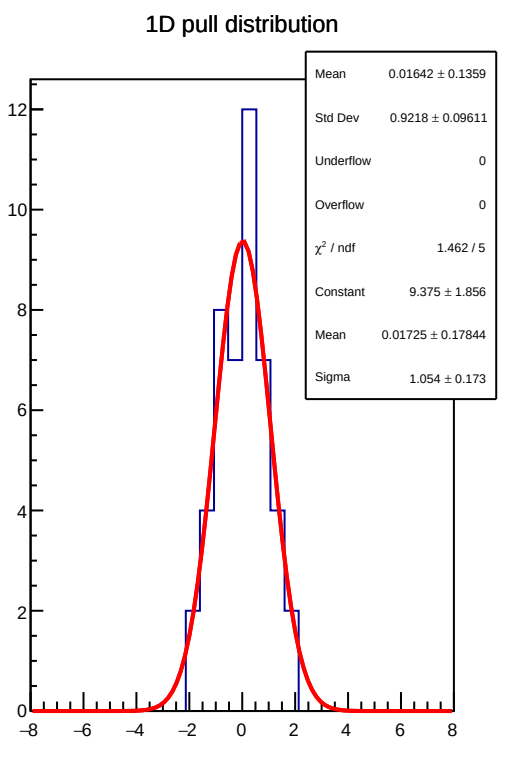

asym_dsl RMS (ppm)
RMS (ppm)
530
520
510
500
490
480
470
460

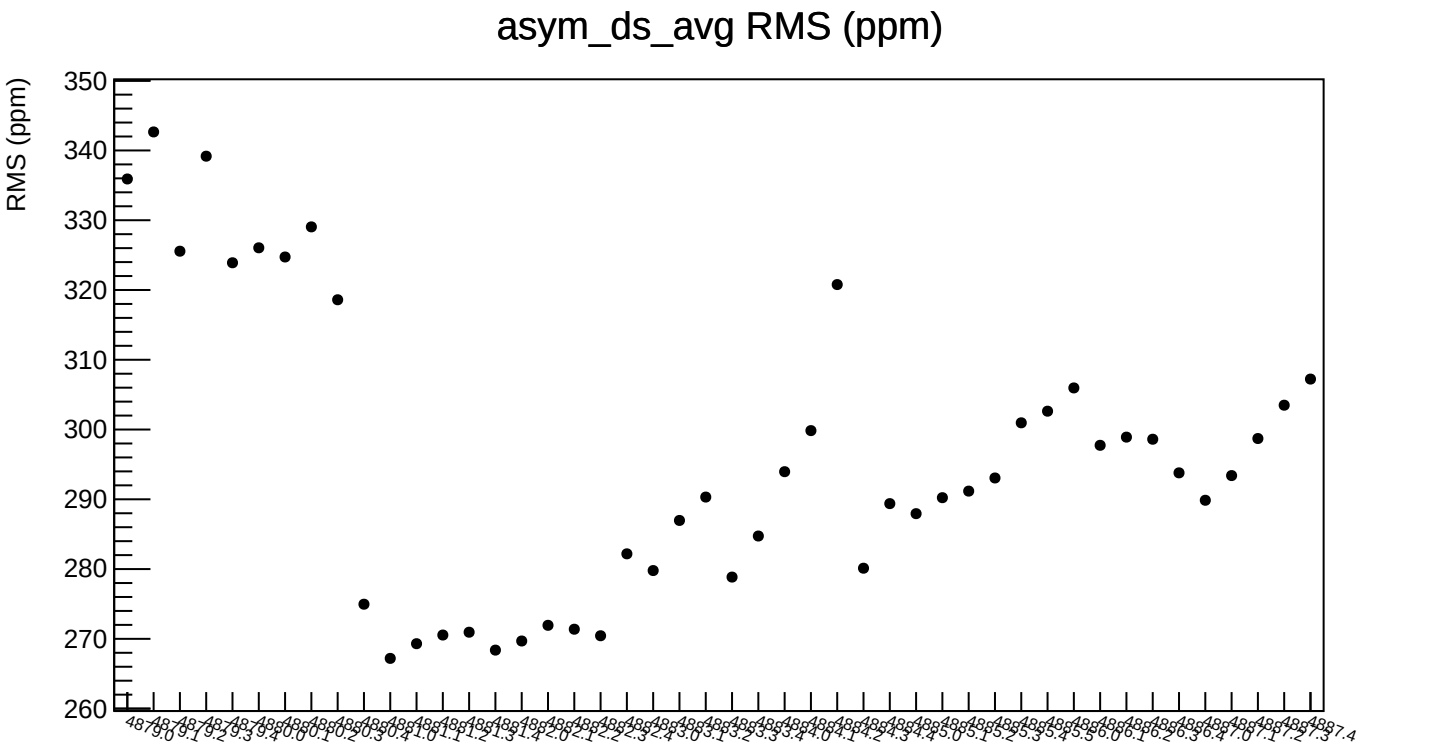

asym_dsr (ppb)
χ² / ndf 45.28 / 45
p0 848.9 ± 540.4
10000
5000
0
−5000
−10000
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
4879.0
4879.1
4879.2
4879.3
4879.4
4880.0
4880.1
4880.2
4880.3
4880.4
4881.0
4881.1
4881.2
4881.3
4881.4
4882.0
4882.1
4882.2
4882.3
4882.4
4883.0
4883.1
4883.2
4883.3
4883.4
4884.0
4884.1
4884.2
4884.3
4884.4
4885.0
4885.1
4885.2
4885.3
4885.4
4885.5
4886.0
4886.1
4886.2
4886.3
4886.4
4887.0
4887.1
4887.2
4887.3
4887.4

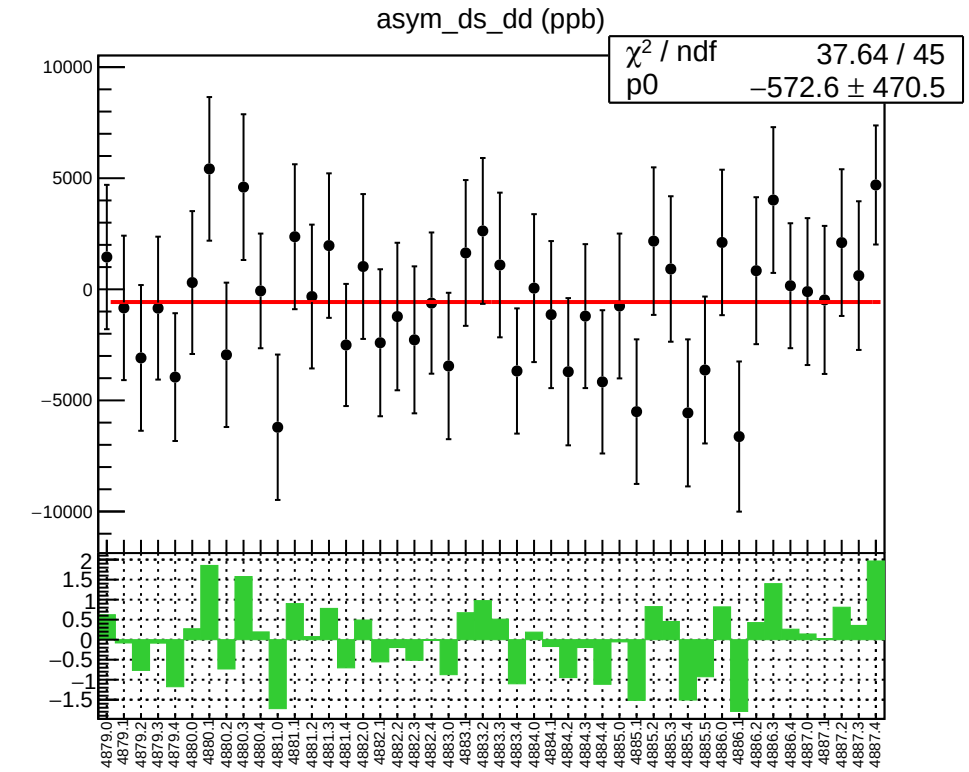

1D pull distribution
Mean 0.0132 ± 0.1463
Std Dev 0.9921 ± 0.1034
Underflow 0
Overflow 0
χ² / ndf 1.465 / 5
Constant 8.71 ± 1.65
Mean 0.3469 ± 0.4037
Sigma 1.332 ± 0.350
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

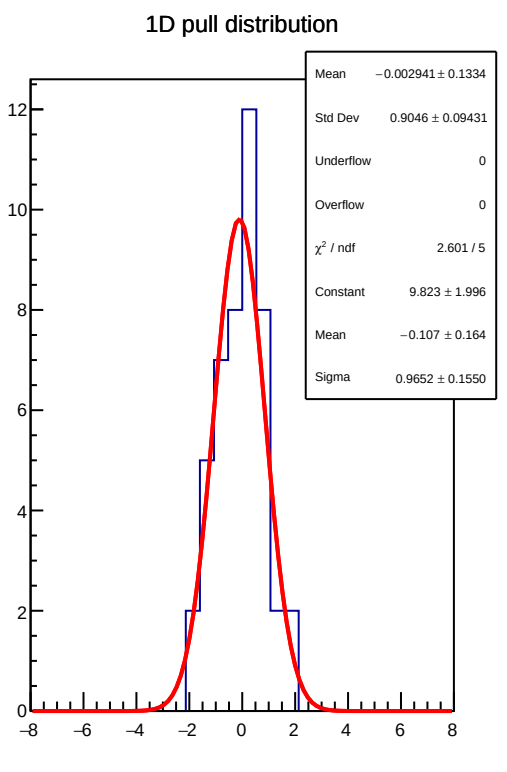

asym_dsr RMS (ppm)
RMS (ppm)
385
380
375
370
365
360
355
350
345

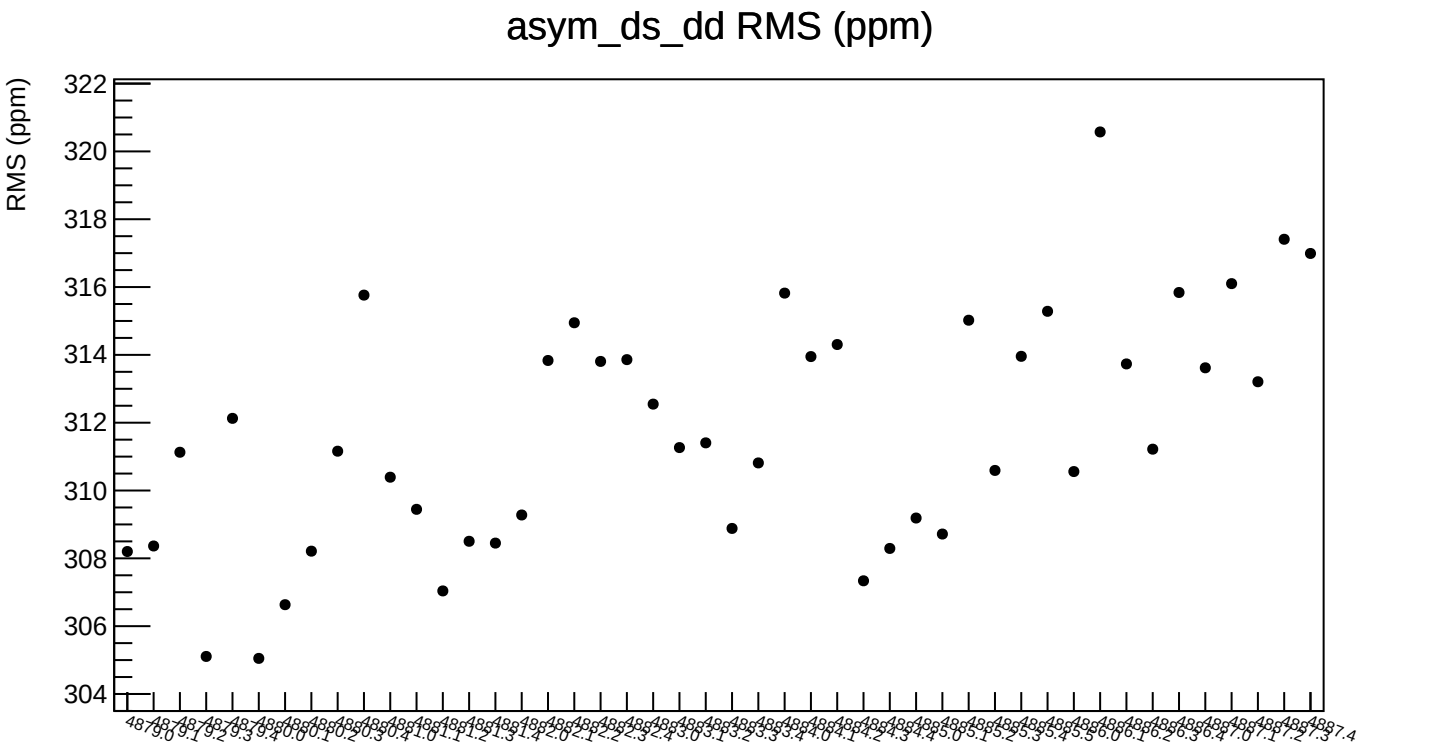

asym_ds_avg (ppb)
χ² / ndf 39.1 / 45
p0 249.4 ± 442.9
10000
5000
0
−5000
−10000
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
4879.0
4879.1
4879.2
4879.3
4879.4
4880.0
4880.1
4880.2
4880.3
4880.4
4881.0
4881.1
4881.2
4881.3
4881.4
4882.0
4882.1
4882.2
4882.3
4882.4
4883.0
4883.1
4883.2
4883.3
4883.4
4884.0
4884.1
4884.2
4884.3
4884.4
4885.0
4885.1
4885.2
4885.3
4885.4
4885.5
4886.0
4886.1
4886.2
4886.3
4886.4
4887.0
4887.1
4887.2
4887.3
4887.4

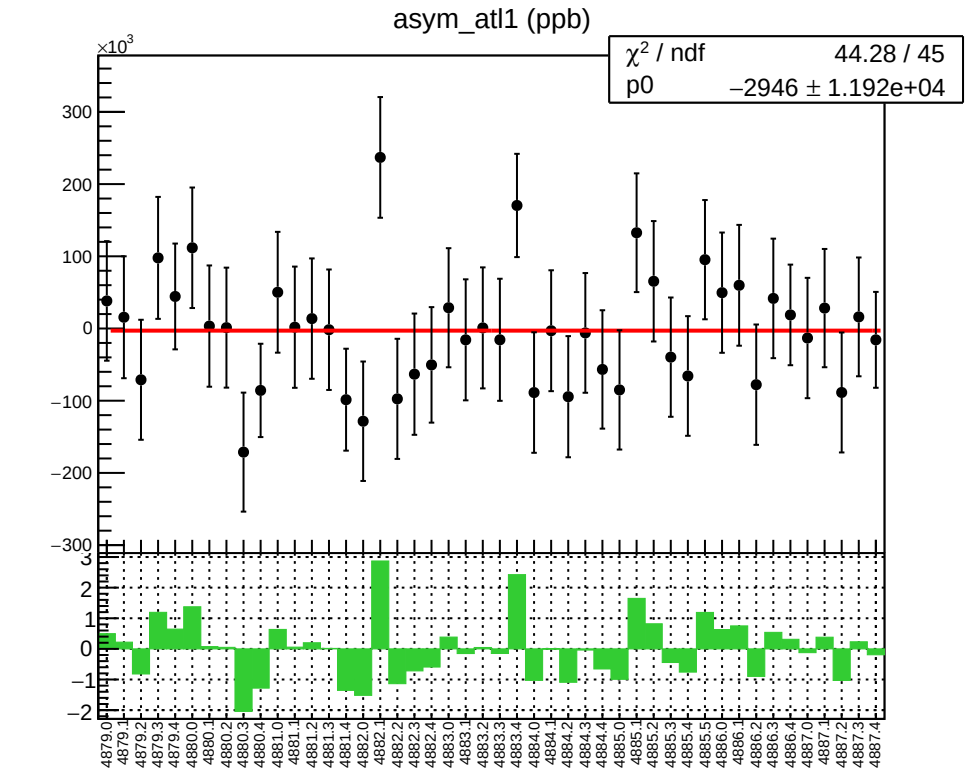

1D pull distribution
Mean 0.01642 ± 0.1359
Std Dev 0.9218 ± 0.09611
Underflow 0
Overflow 0
χ² / ndf 1.462 / 5
Constant 9.375 ± 1.856
Mean 0.01725 ± 0.17844
Sigma 1.054 ± 0.173
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

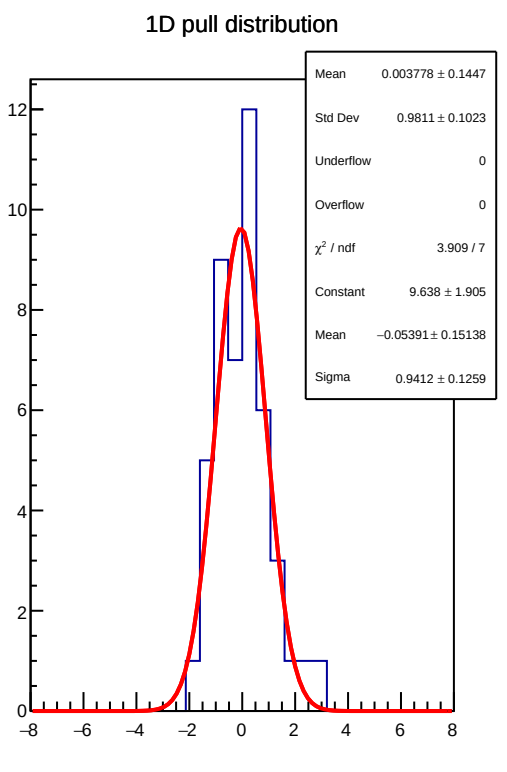

asym_ds_avg RMS (ppm)
RMS (ppm)
350
340
330
320
310
300
290
280
270
260

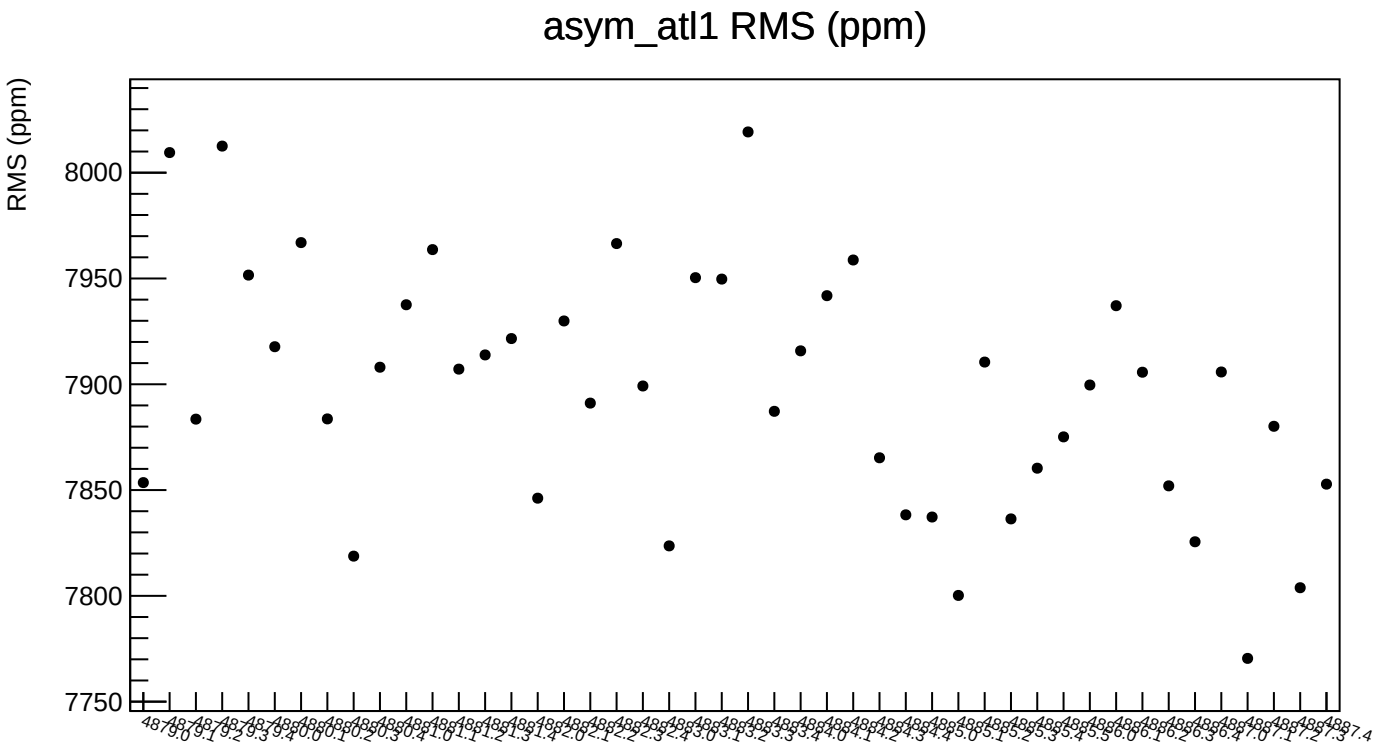

asym_ds_dd (ppb)
χ² / ndf 37.64 / 45
p0 −572.6 ± 470.5
10000
5000
0
−5000
−10000
2
1.5
1
0.5
0
−0.5
−1
−1.5
4879.0
4879.1
4879.2
4879.3
4879.4
4880.0
4880.1
4880.2
4880.3
4880.4
4881.0
4881.1
4881.2
4881.3
4881.4
4882.0
4882.1
4882.2
4882.3
4882.4
4883.0
4883.1
4883.2
4883.3
4883.4
4884.0
4884.1
4884.2
4884.3
4884.4
4885.0
4885.1
4885.2
4885.3
4885.4
4885.5
4886.0
4886.1
4886.2
4886.3
4886.4
4887.0
4887.1
4887.2
4887.3
4887.4

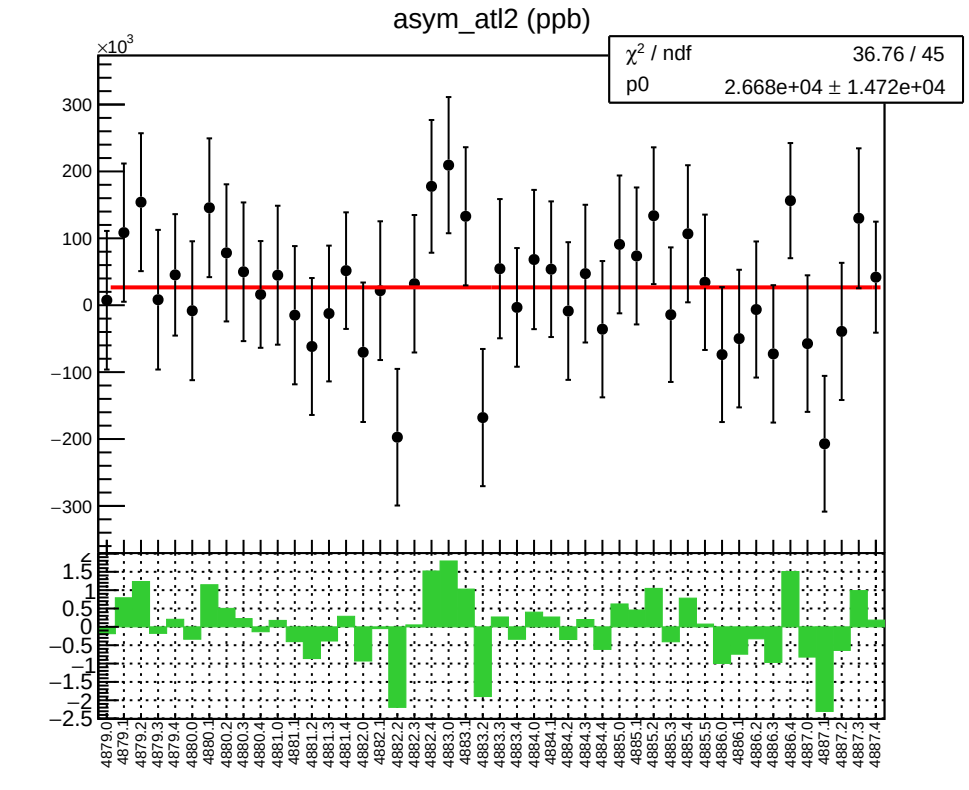

1D pull distribution
Mean −0.002941 ± 0.1334
Std Dev 0.9046 ± 0.09431
Underflow 0
Overflow 0
χ² / ndf 2.601 / 5
Constant 9.823 ± 1.996
Mean −0.107 ± 0.164
Sigma 0.9652 ± 0.1550
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

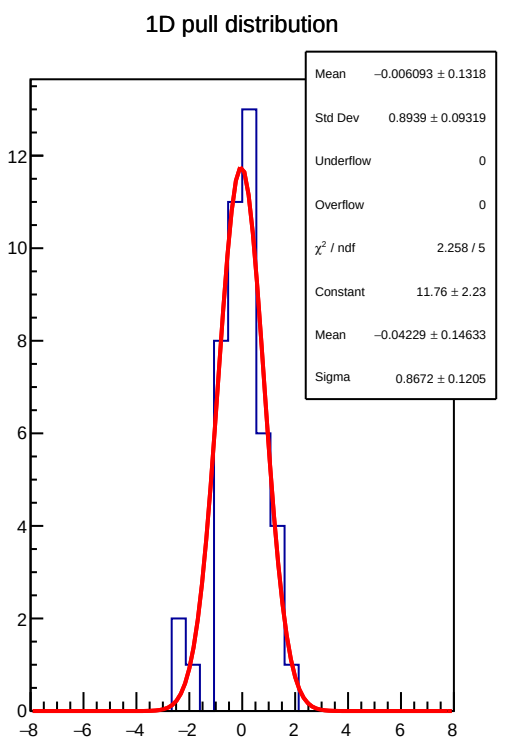

asym_ds_dd RMS (ppm)
RMS (ppm)
322
320
318
316
314
312
310
308
306
304

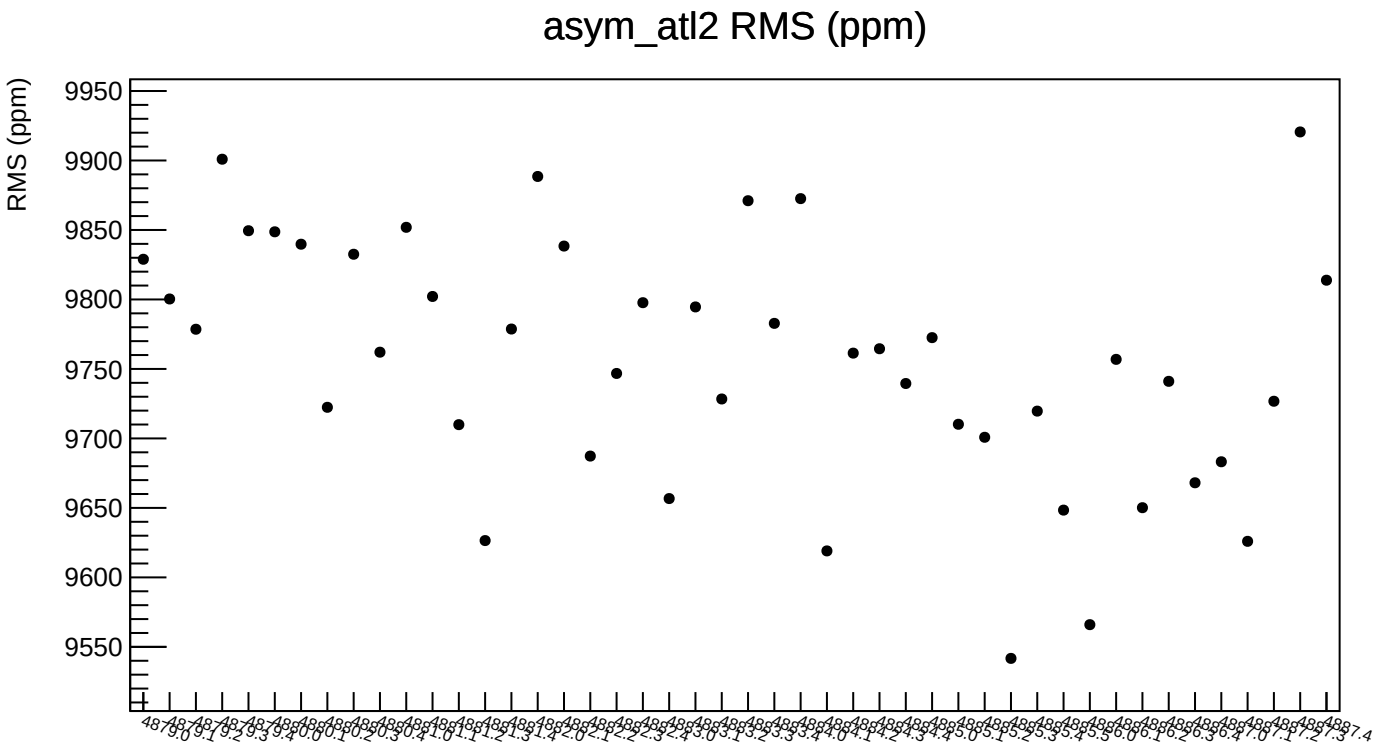

asym_atl1 (ppb)
×10^3
χ² / ndf 44.28 / 45
p0 −2946 ± 1.192e+04
300
200
100
0
−100
−200
−300
3
2
1
0
−1
−2
4879.0
4879.1
4879.2
4879.3
4879.4
4880.0
4880.1
4880.2
4880.3
4880.4
4881.0
4881.1
4881.2
4881.3
4881.4
4882.0
4882.1
4882.2
4882.3
4882.4
4883.0
4883.1
4883.2
4883.3
4883.4
4884.0
4884.1
4884.2
4884.3
4884.4
4885.0
4885.1
4885.2
4885.3
4885.4
4885.5
4886.0
4886.1
4886.2
4886.3
4886.4
4887.0
4887.1
4887.2
4887.3
4887.4

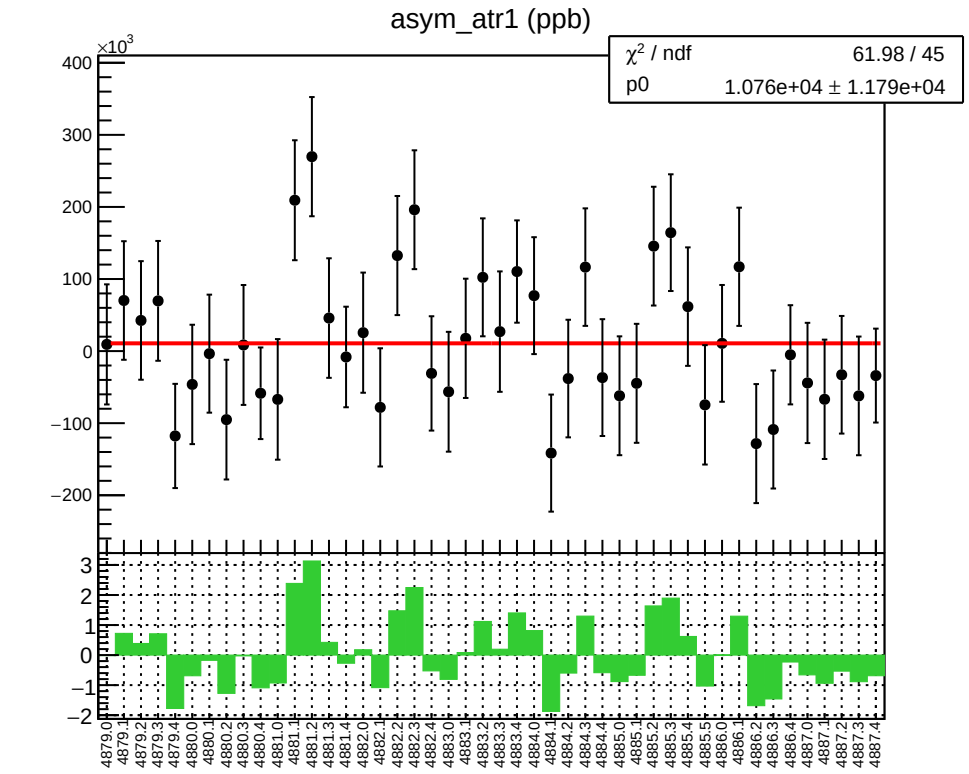

1D pull distribution
Mean 0.003778 ± 0.1447
Std Dev 0.9811 ± 0.1023
Underflow 0
Overflow 0
χ² / ndf 3.909 / 7
Constant 9.638 ± 1.905
Mean −0.05391 ± 0.15138
Sigma 0.9412 ± 0.1259
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

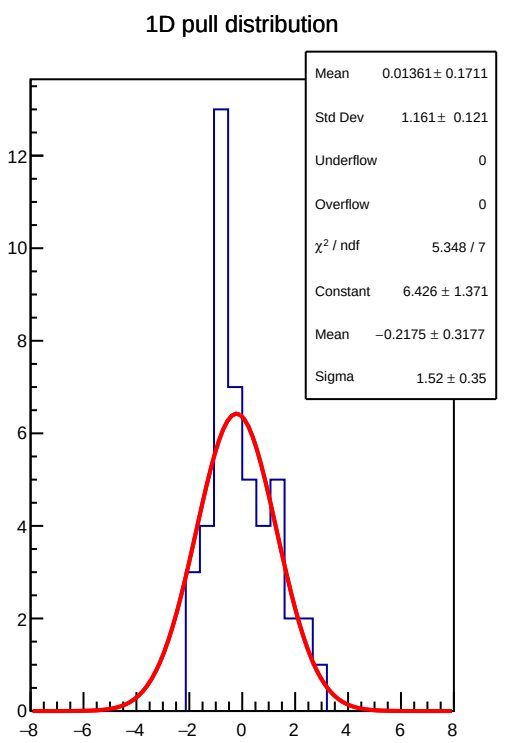

asym_atl1 RMS (ppm)
RMS (ppm)
8000
7950
7900
7850
7800
7750

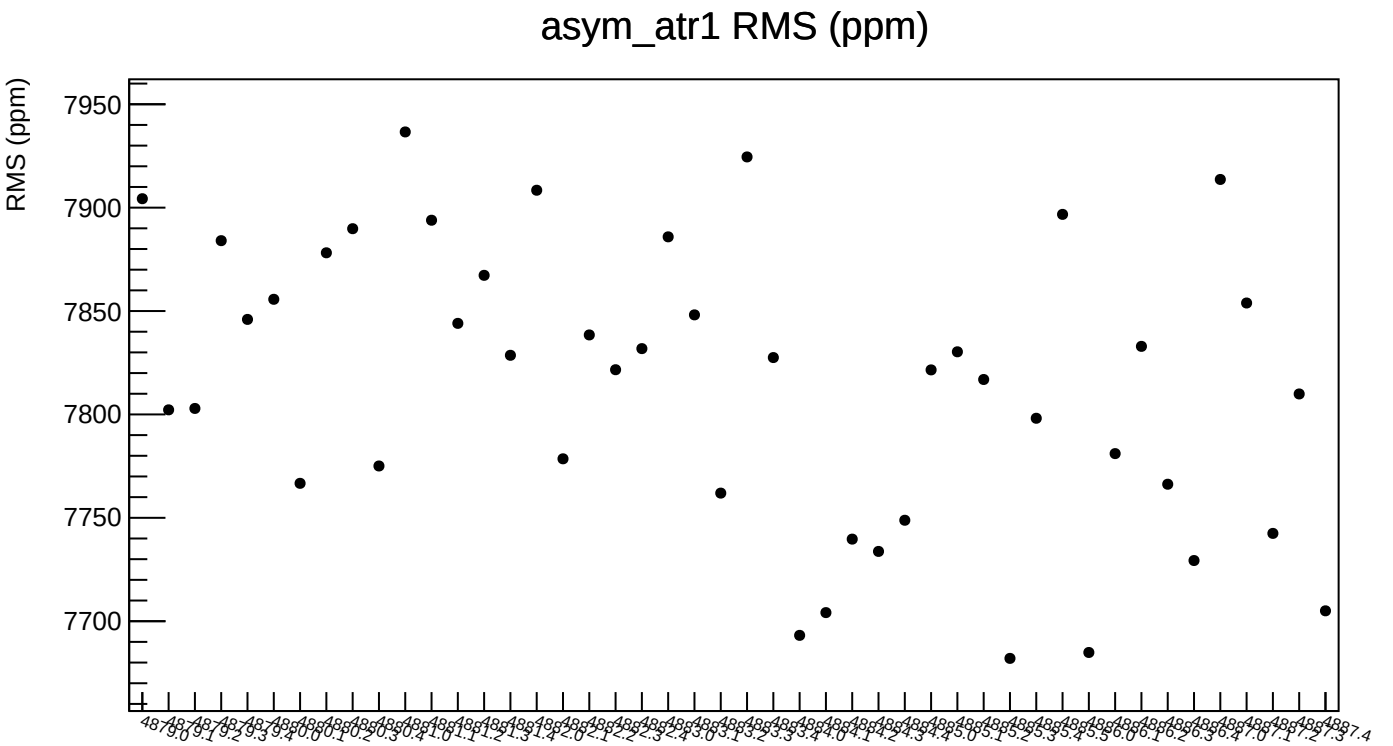

asym_atl2 (ppb)
×10^3
χ² / ndf 36.76 / 45
p0 2.668e+04 ± 1.472e+04
300
200
100
0
−100
−200
−300
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
4879.0
4879.1
4879.2
4879.3
4879.4
4880.0
4880.1
4880.2
4880.3
4880.4
4881.0
4881.1
4881.2
4881.3
4881.4
4882.0
4882.1
4882.2
4882.3
4882.4
4883.0
4883.1
4883.2
4883.3
4883.4
4884.0
4884.1
4884.2
4884.3
4884.4
4885.0
4885.1
4885.2
4885.3
4885.4
4885.5
4886.0
4886.1
4886.2
4886.3
4886.4
4887.0
4887.1
4887.2
4887.3
4887.4

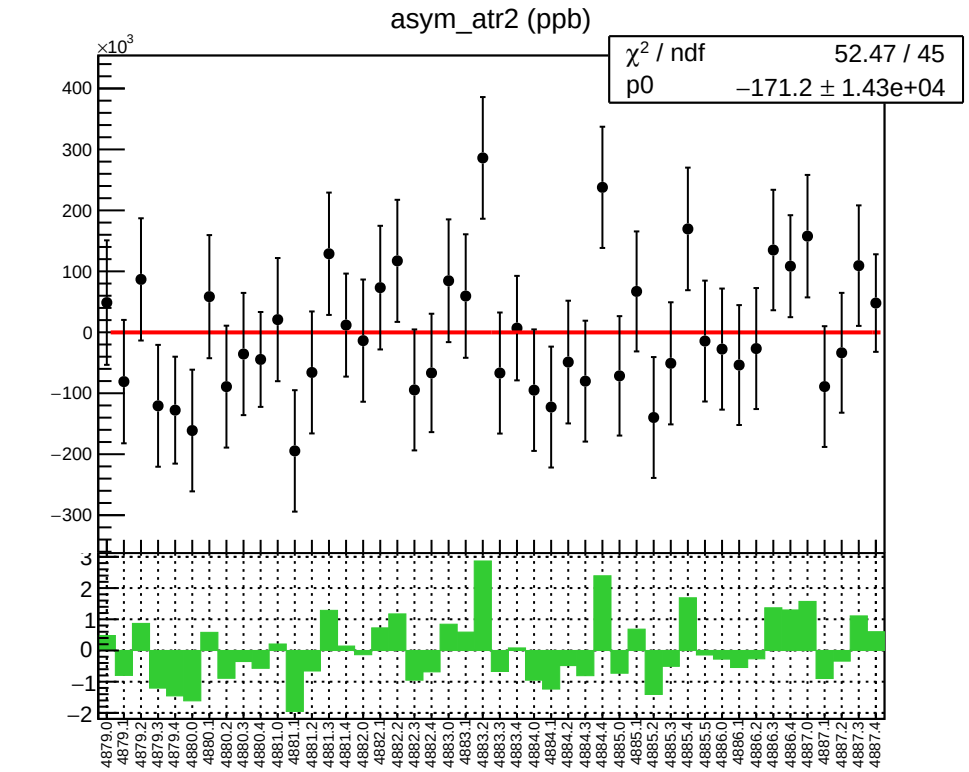

1D pull distribution
Mean −0.006093 ± 0.1318
Std Dev 0.8939 ± 0.09319
Underflow 0
Overflow 0
χ² / ndf 2.258 / 5
Constant 11.76 ± 2.23
Mean −0.04229 ± 0.14633
Sigma 0.8672 ± 0.1205
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

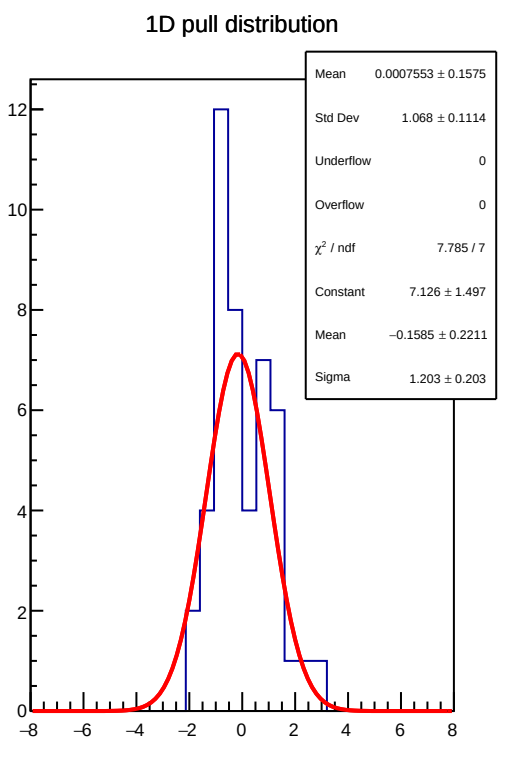

asym_atl2 RMS (ppm)
RMS (ppm)
9950
9900
9850
9800
9750
9700
9650
9600
9550

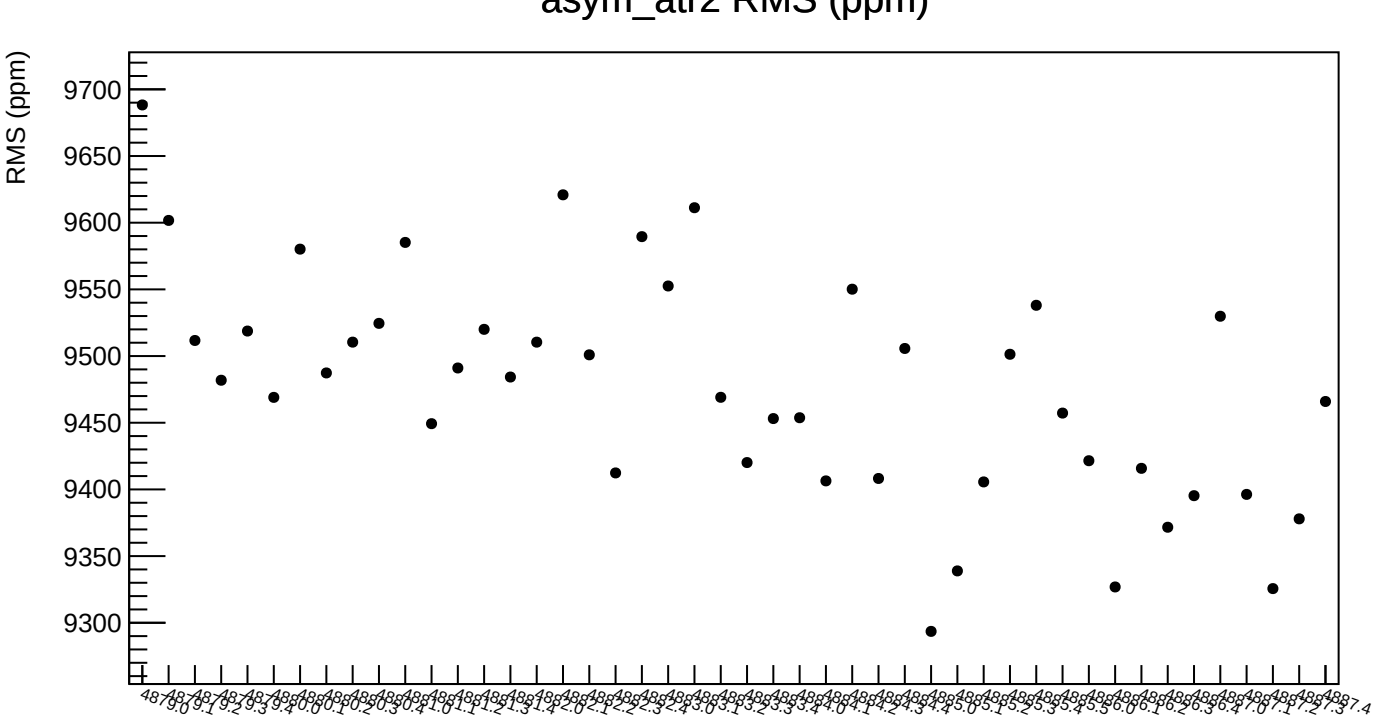

asym_atr1 (ppb)
×10^3
χ² / ndf 61.98 / 45
p0 1.076e+04 ± 1.179e+04


1D pull distribution
Mean 0.01361± 0.1711
Std Dev 1.161± 0.121
Underflow 0
Overflow 0
χ² / ndf 5.348 / 7
Constant 6.426 ± 1.371
Mean −0.2175 ± 0.3177
Sigma 1.52 ± 0.35


asym_atr1 RMS (ppm)
RMS (ppm)
7950
7900
7850
7800
7750
7700


asym_atr2 (ppb)
×10^3
χ² / ndf 52.47 / 45
p0 −171.2 ± 1.43e+04
400
300
200
100
0
−100
−200
−300
3
2
1
0
−1
−2
4879.0
4879.1
4879.2
4879.3
4879.4
4880.0
4880.1
4880.2
4880.3
4880.4
4881.0
4881.1
4881.2
4881.3
4881.4
4882.0
4882.1
4882.2
4882.3
4882.4
4883.0
4883.1
4883.2
4883.3
4883.4
4884.0
4884.1
4884.2
4884.3
4884.4
4885.0
4885.1
4885.2
4885.3
4885.4
4885.5
4886.0
4886.1
4886.2
4886.3
4886.4
4887.0
4887.1
4887.2
4887.3
4887.4


1D pull distribution
Mean 0.0007553 ± 0.1575
Std Dev 1.068 ± 0.1114
Underflow 0
Overflow 0
χ² / ndf 7.785 / 7
Constant 7.126 ± 1.497
Mean −0.1585 ± 0.2211
Sigma 1.203 ± 0.203
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr2 RMS (ppm)
RMS (ppm)
9700
9650
9600
9550
9500
9450
9400
9350
9300