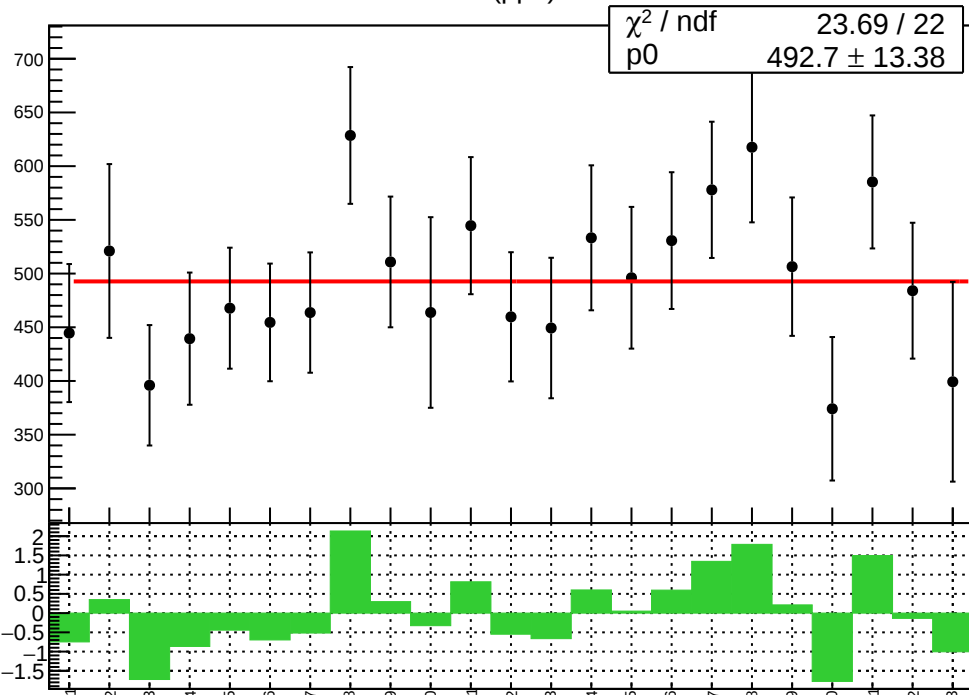
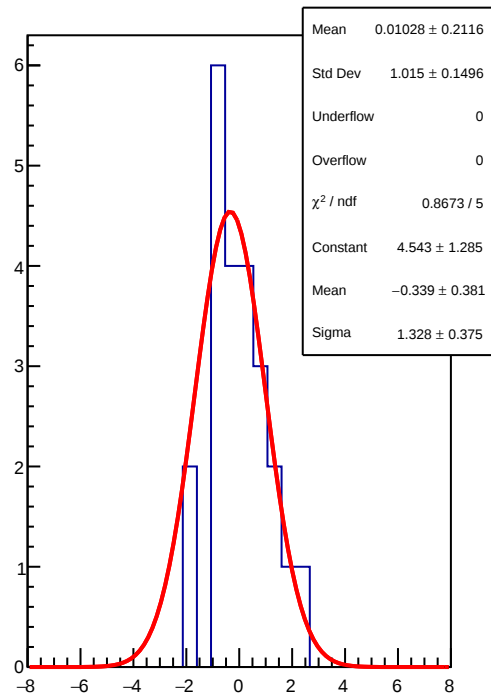


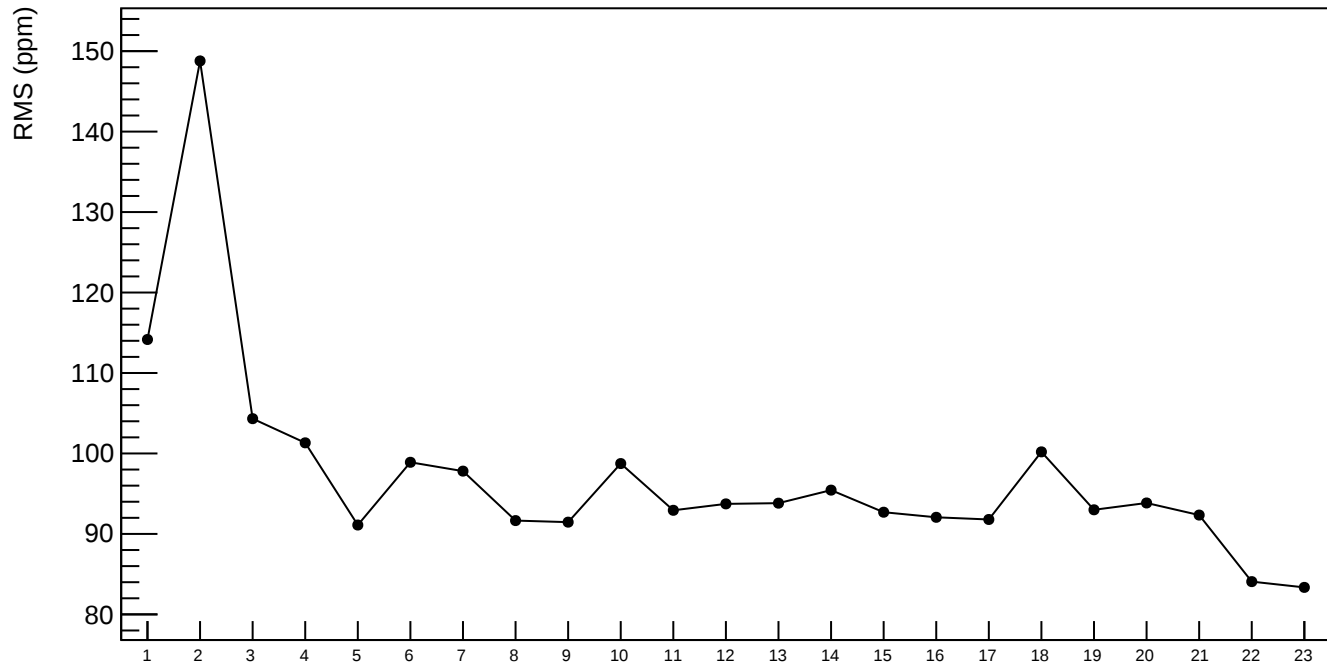
Adet (ppb)



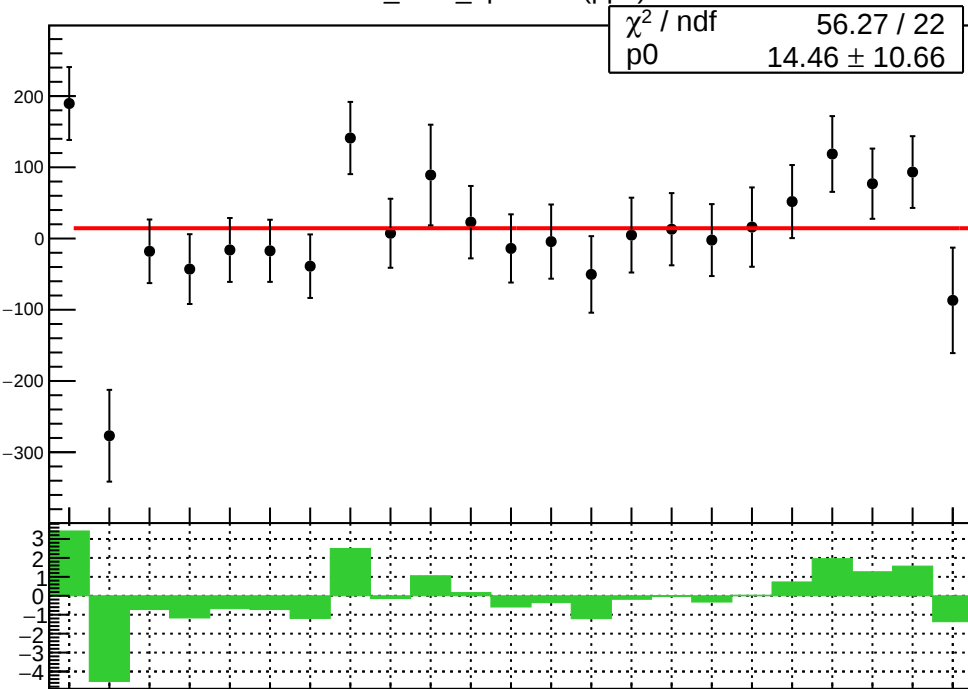
1D pull distribution



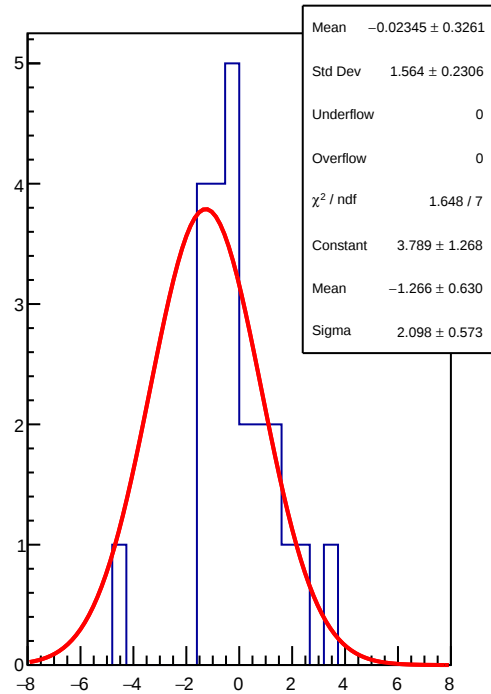
Adet RMS (ppm)



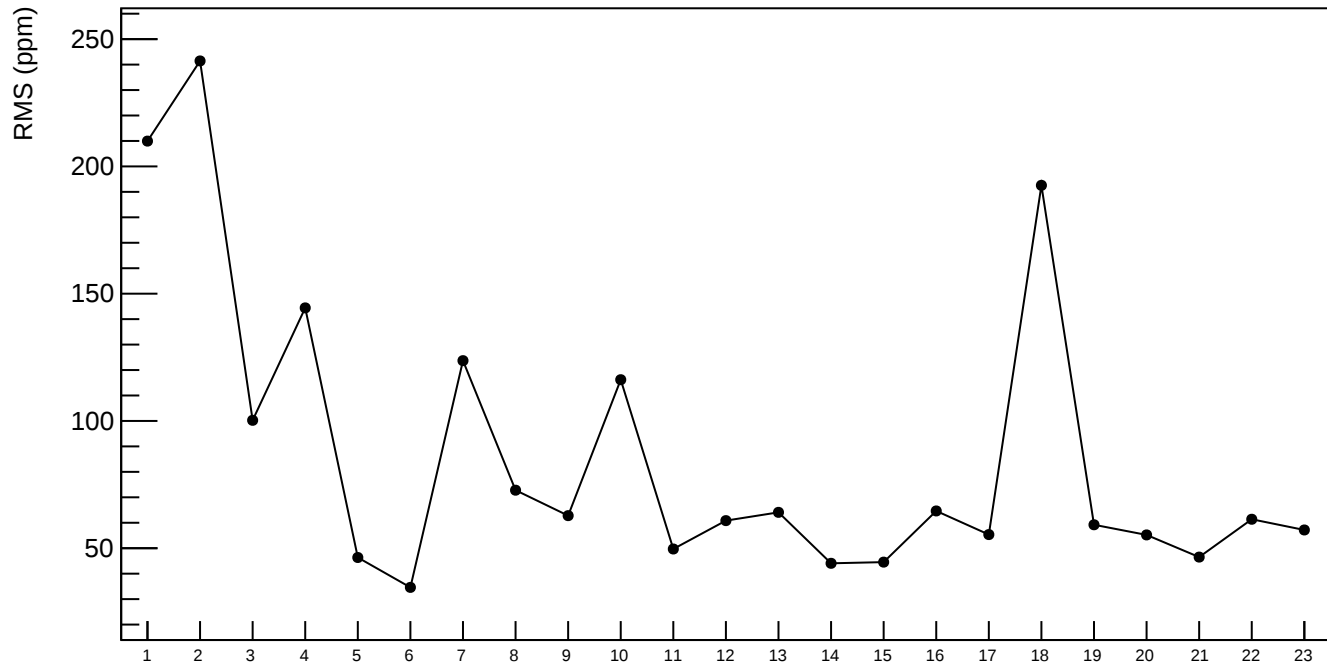
corr_Adet_bpm4eX (ppb)



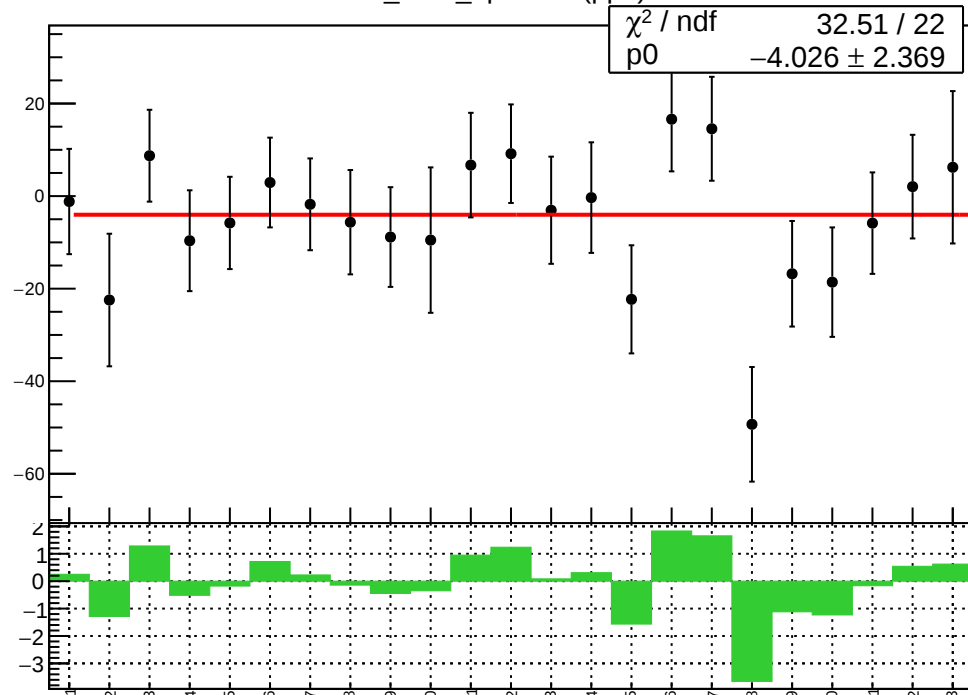
1D pull distribution



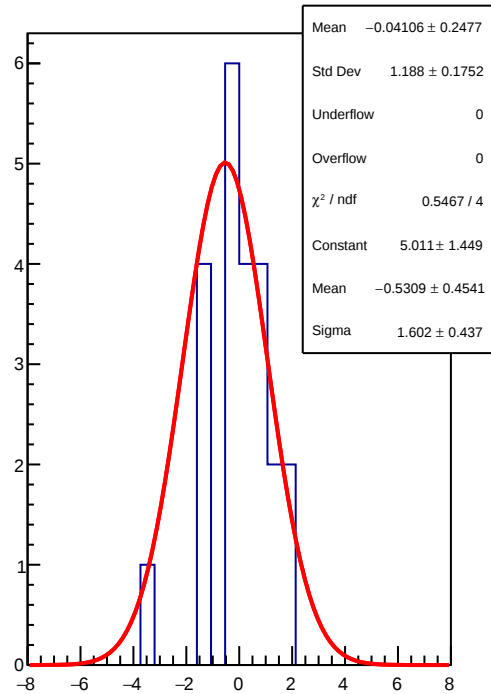
corr_Adet_bpm4eX RMS (ppm)



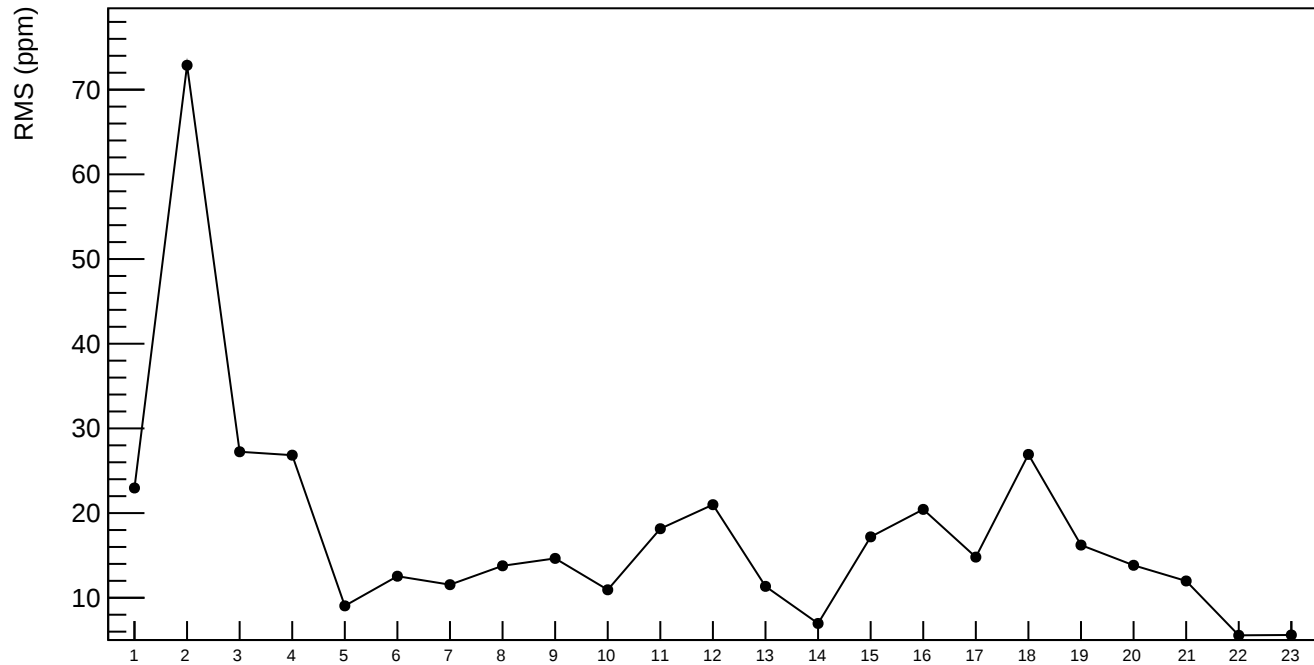
corr_Adet_bpm4eY (ppb)



1D pull distribution



corr_Adet_bpm4eY RMS (ppm)

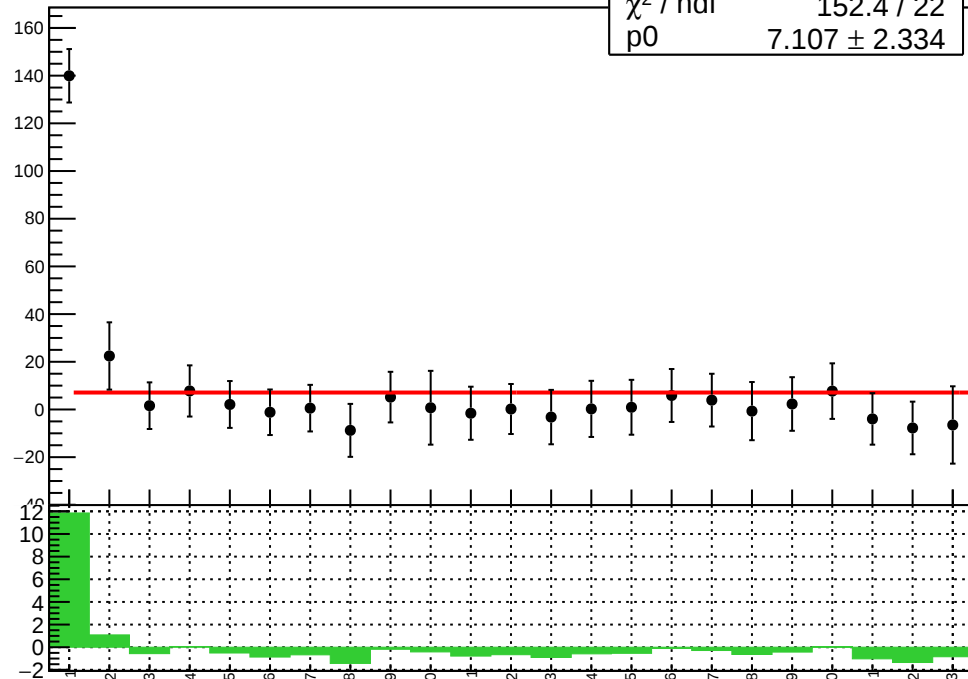


corr_Adet_bpm4aX (ppb)

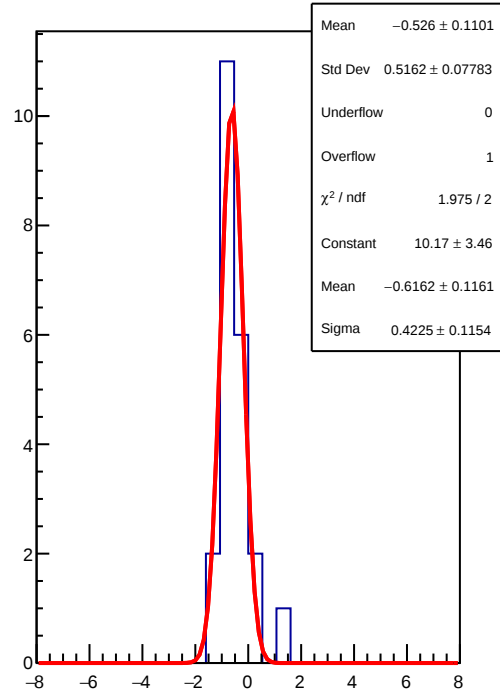
 χ^2 / nfd

152.4 / 22

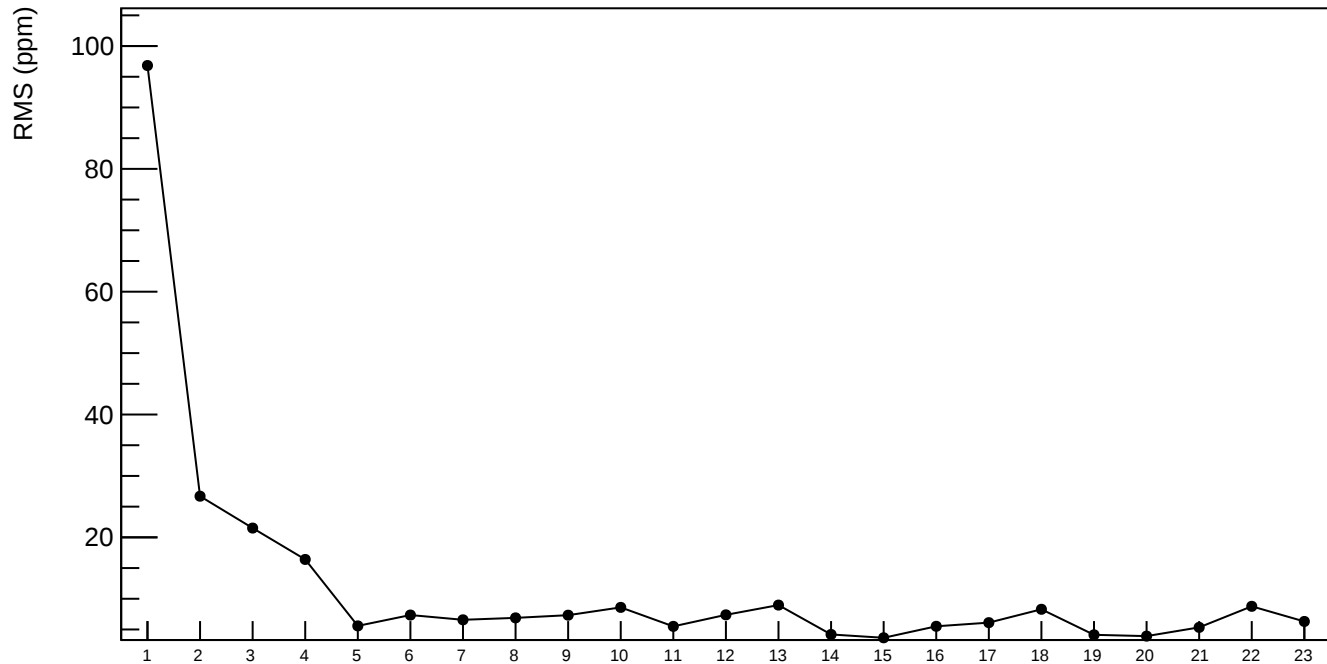
p0

 7.107 ± 2.334 

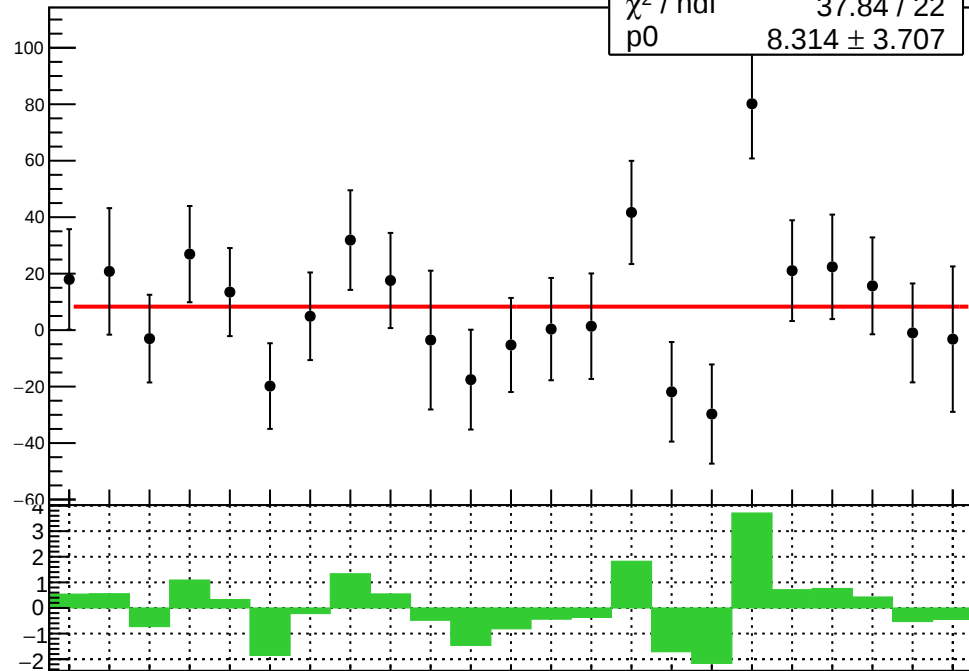
1D pull distribution



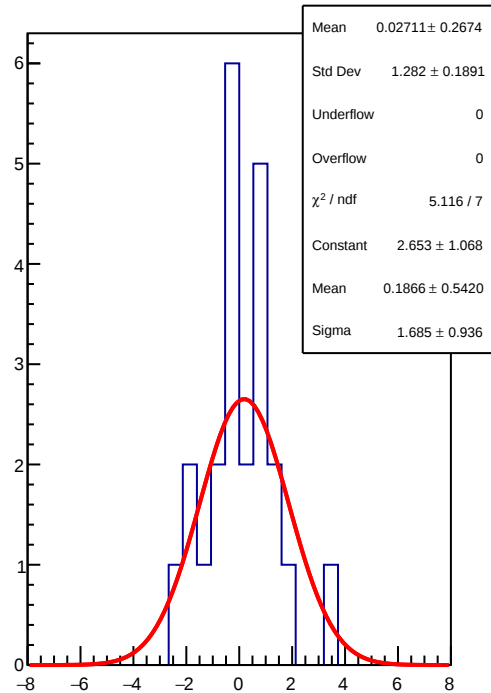
corr_Adet_bpm4aX RMS (ppm)



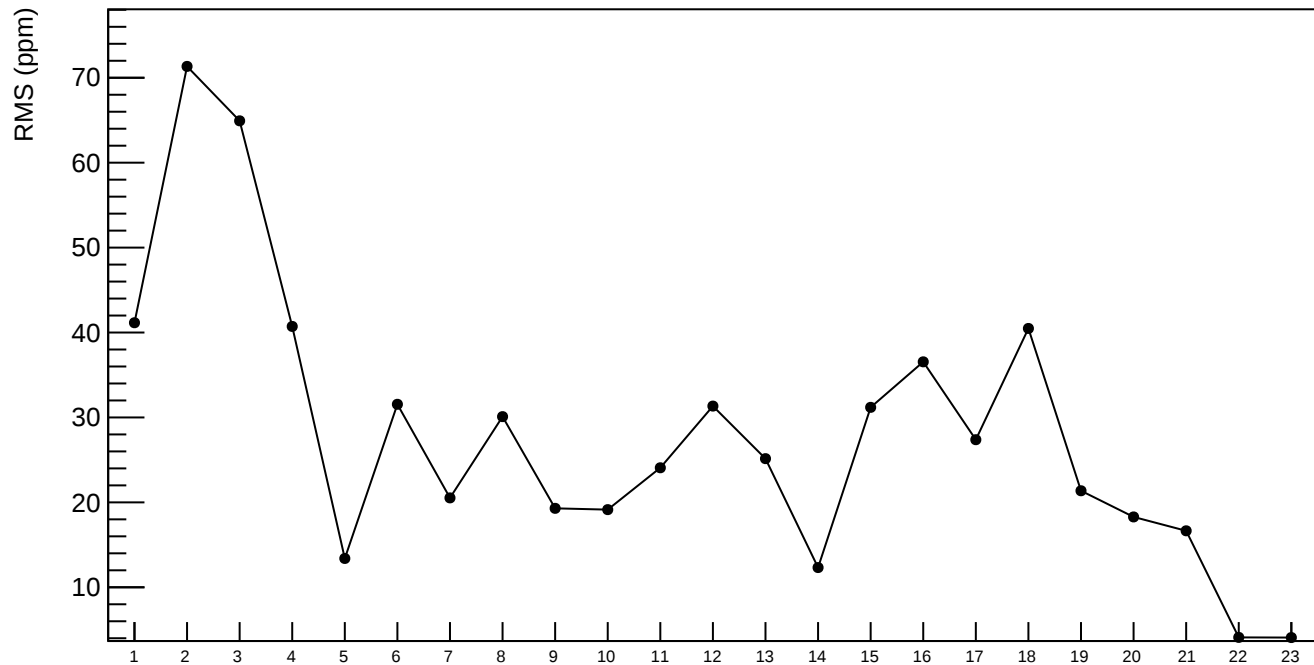
corr_Adet_bpm4aY (ppb)

 χ^2 / nfd 37.84 / 22
p0 8.314 ± 3.707 

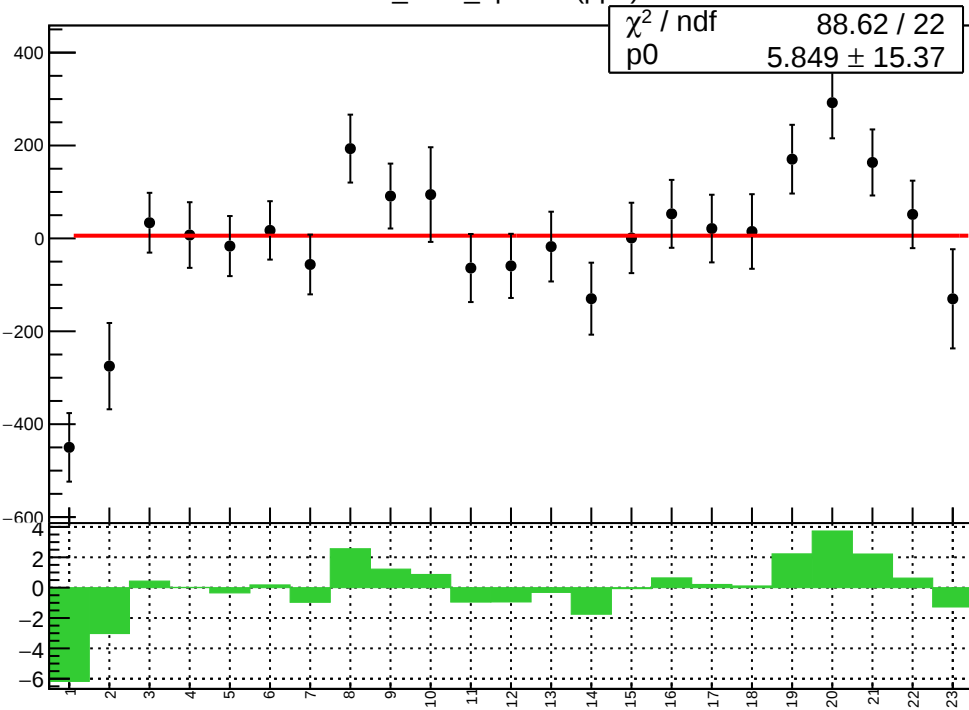
1D pull distribution



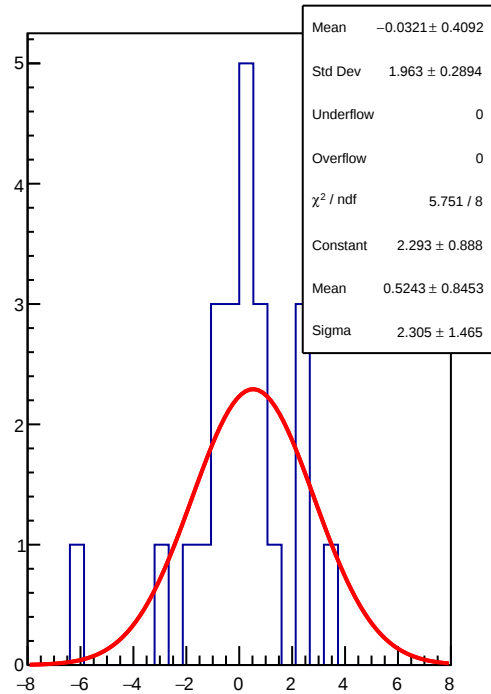
corr_Adet_bpm4aY RMS (ppm)



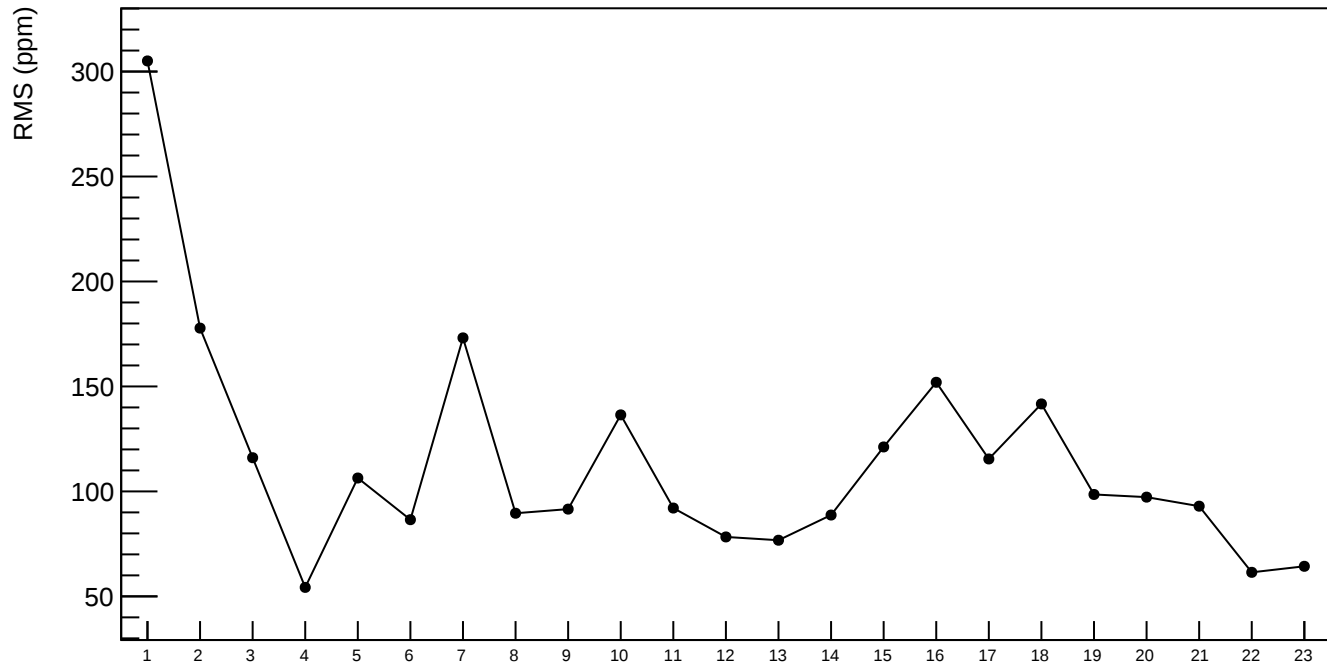
corr_Adet_bpm1X (ppb)



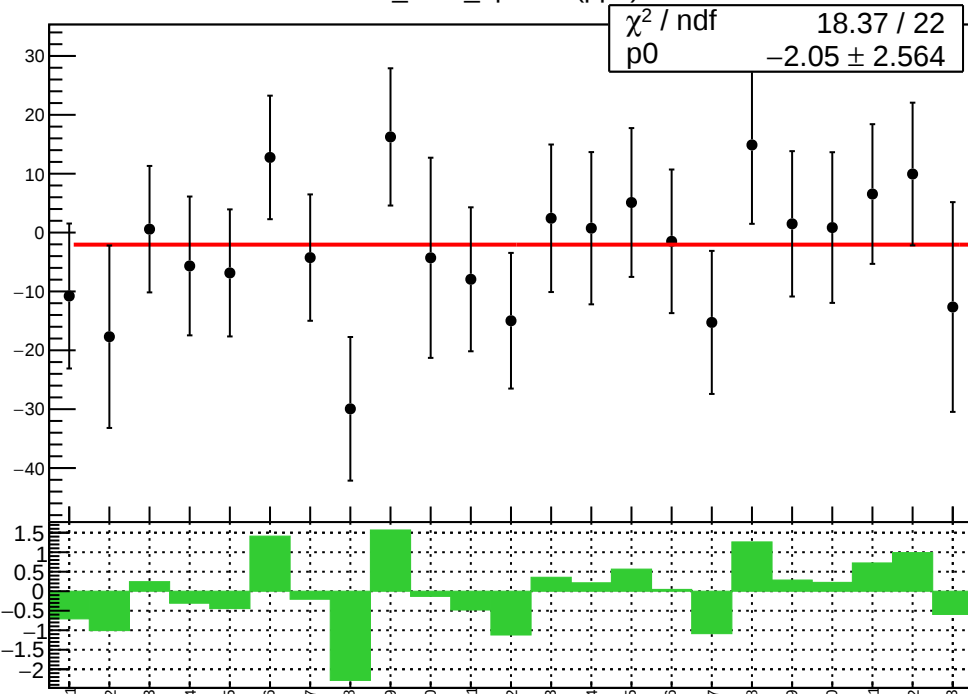
1D pull distribution



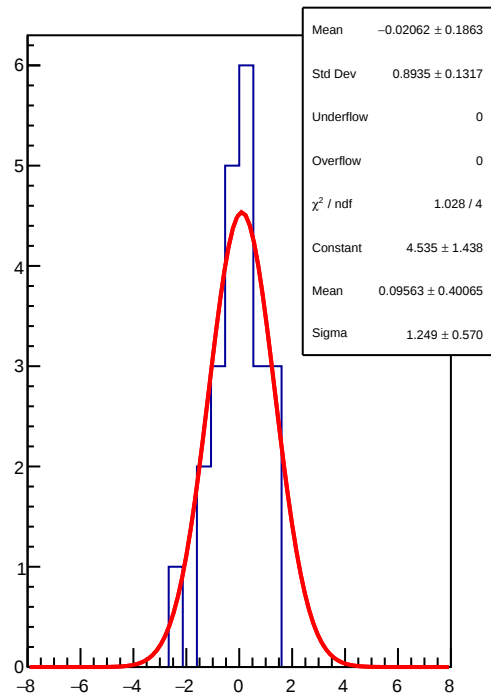
corr_Adet_bpm1X RMS (ppm)



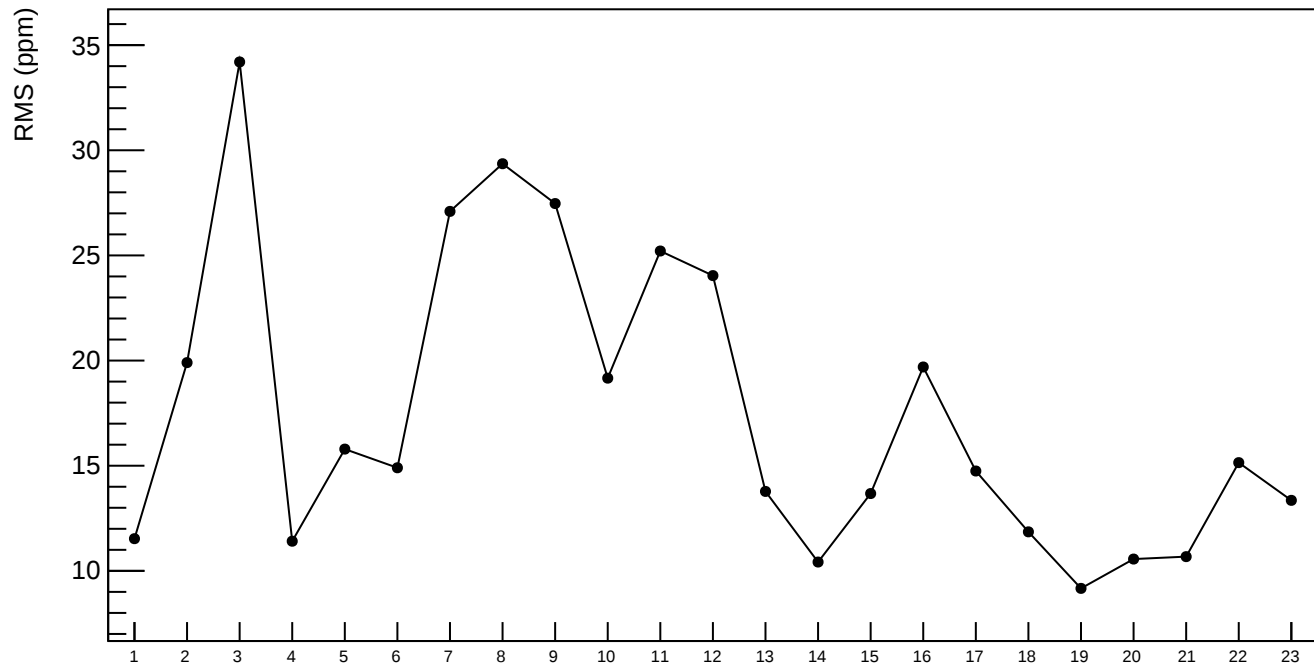
corr_Adet_bpm1Y (ppb)



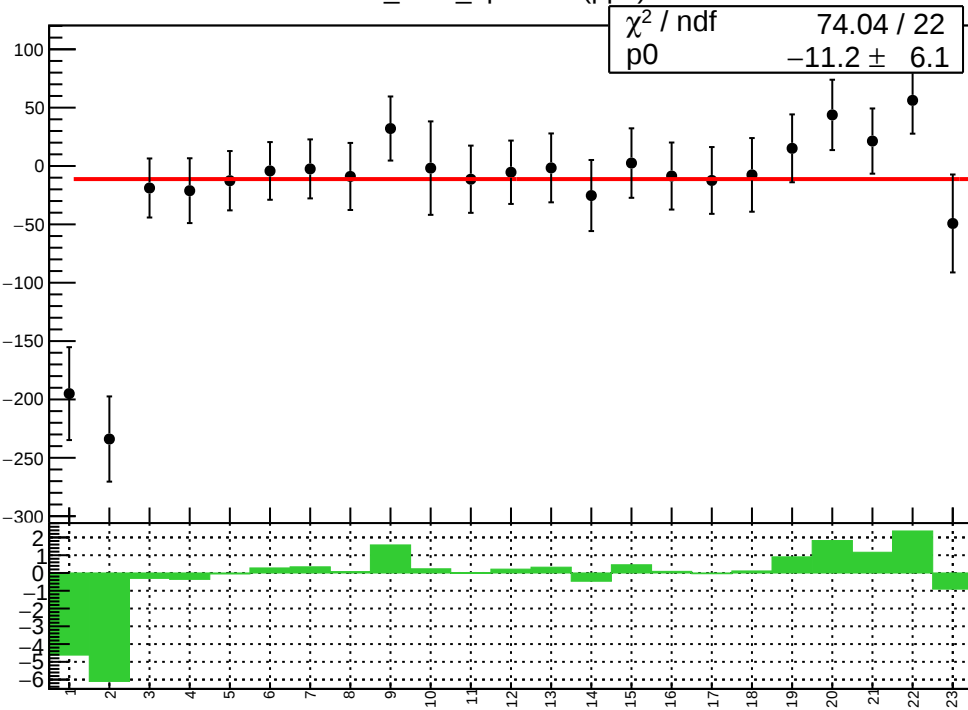
1D pull distribution



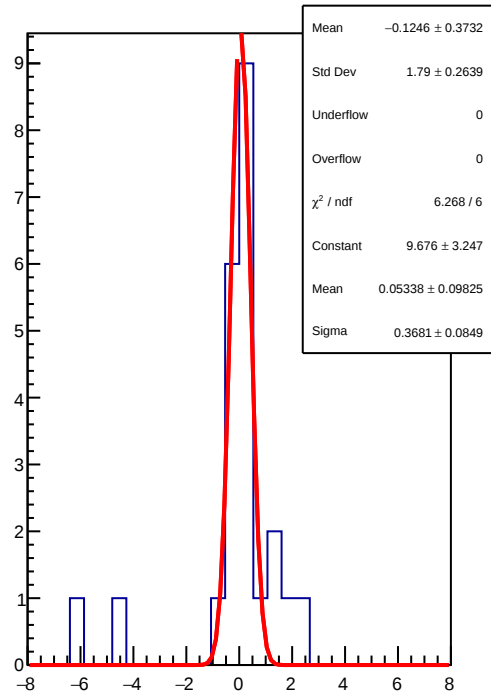
corr_Adet_bpm1Y RMS (ppm)



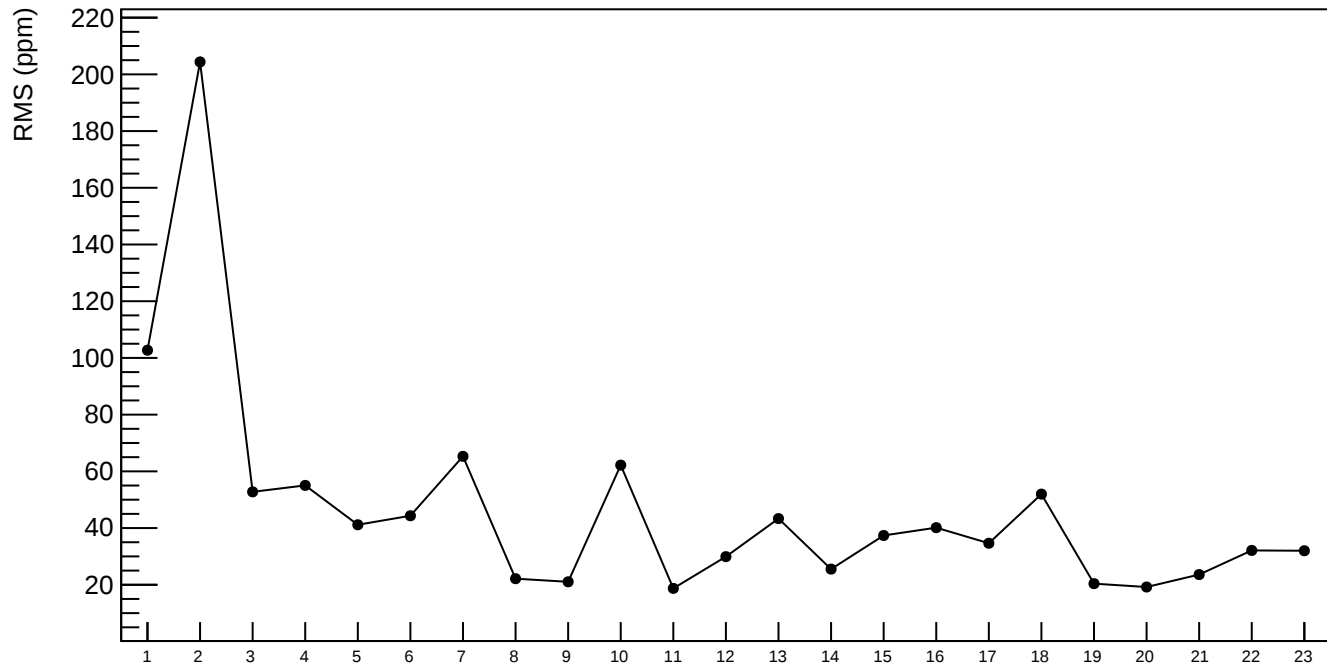
corr_Adet_bpm16X (ppb)



1D pull distribution



corr_Adet_bpm16X RMS (ppm)

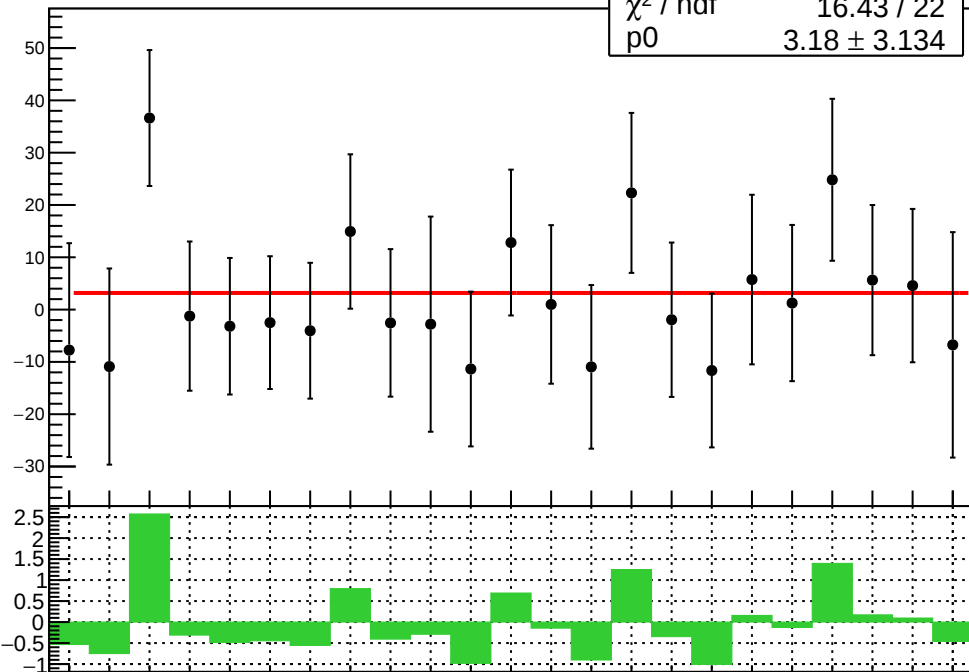


corr_Adet_bpm16Y (ppb)

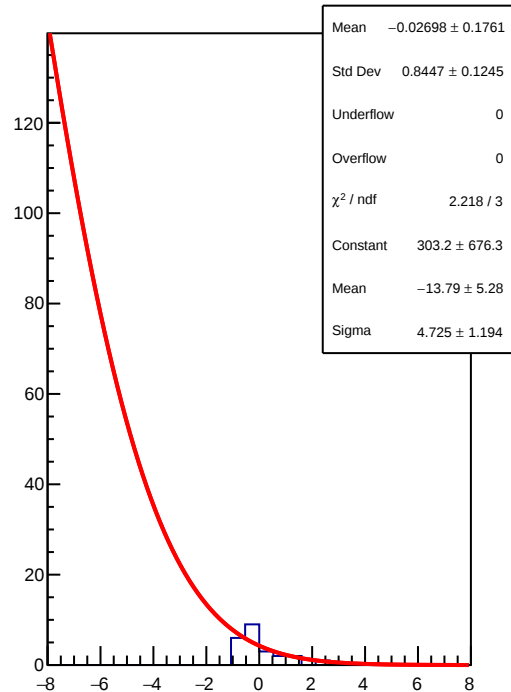
 χ^2 / nfd

16.43 / 22

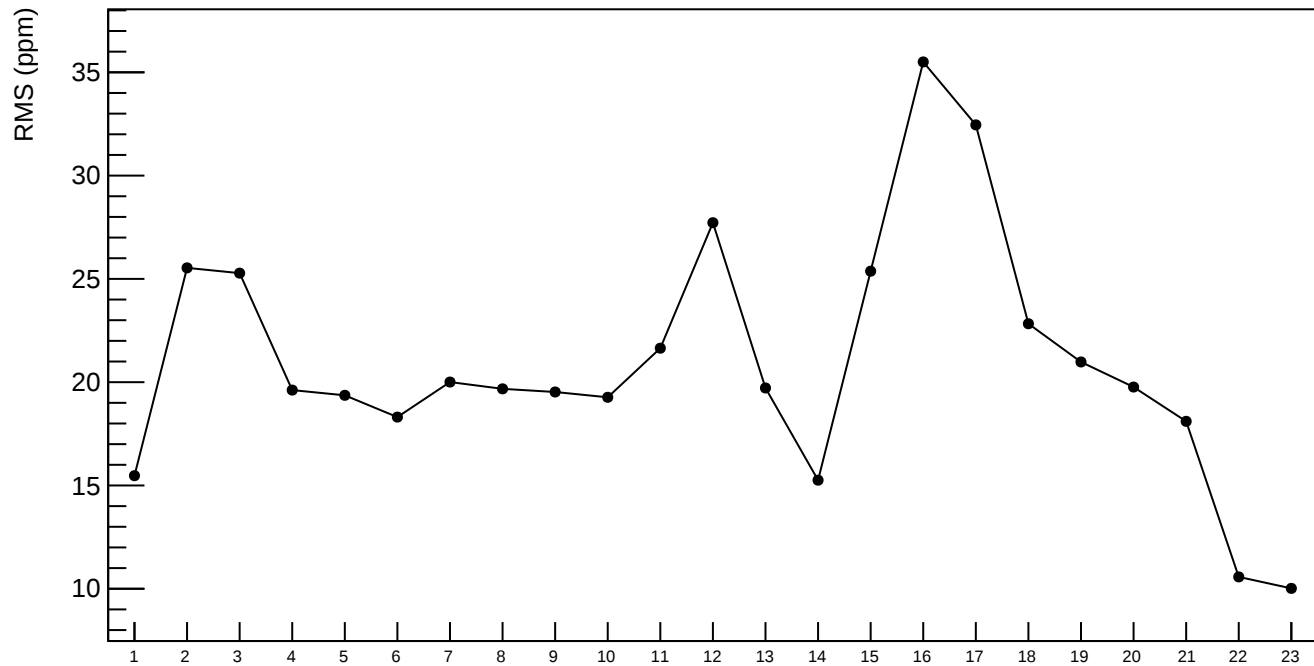
p0

 3.18 ± 3.134 

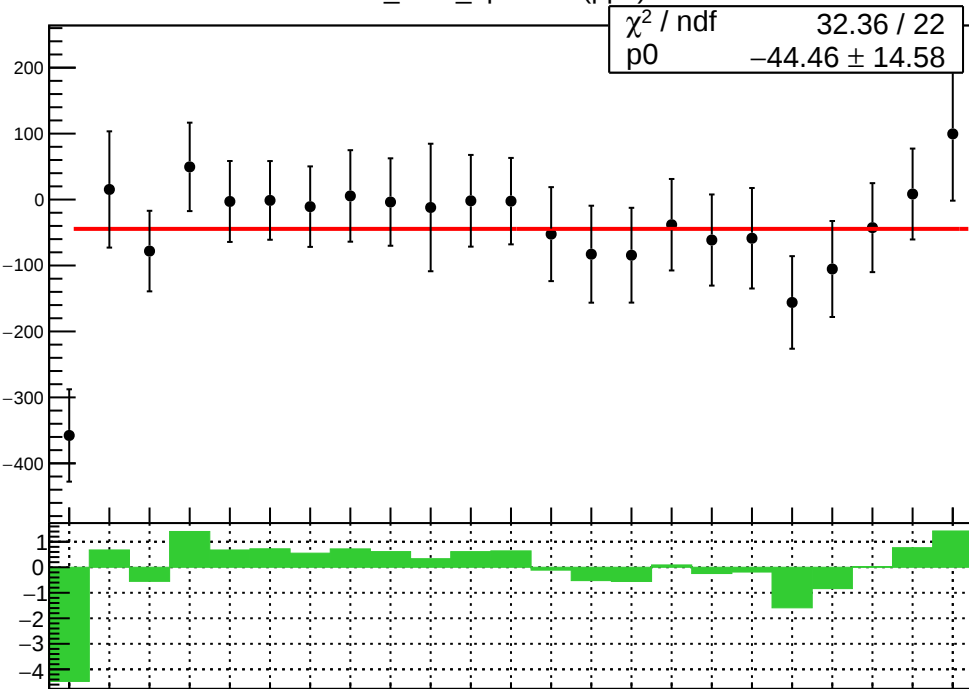
1D pull distribution



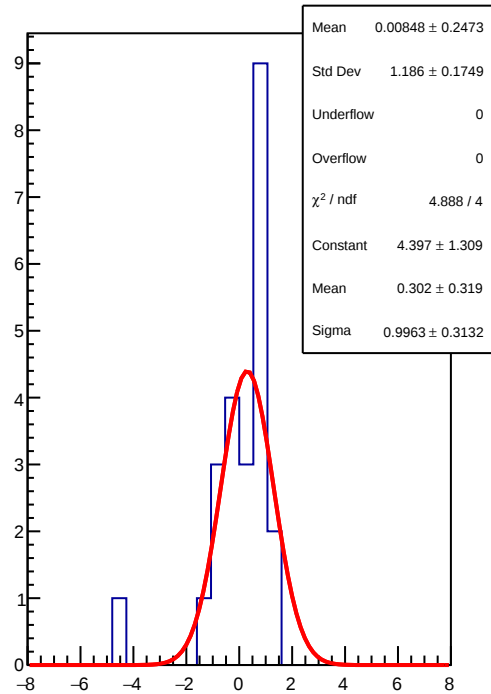
corr_Adet_bpm16Y RMS (ppm)



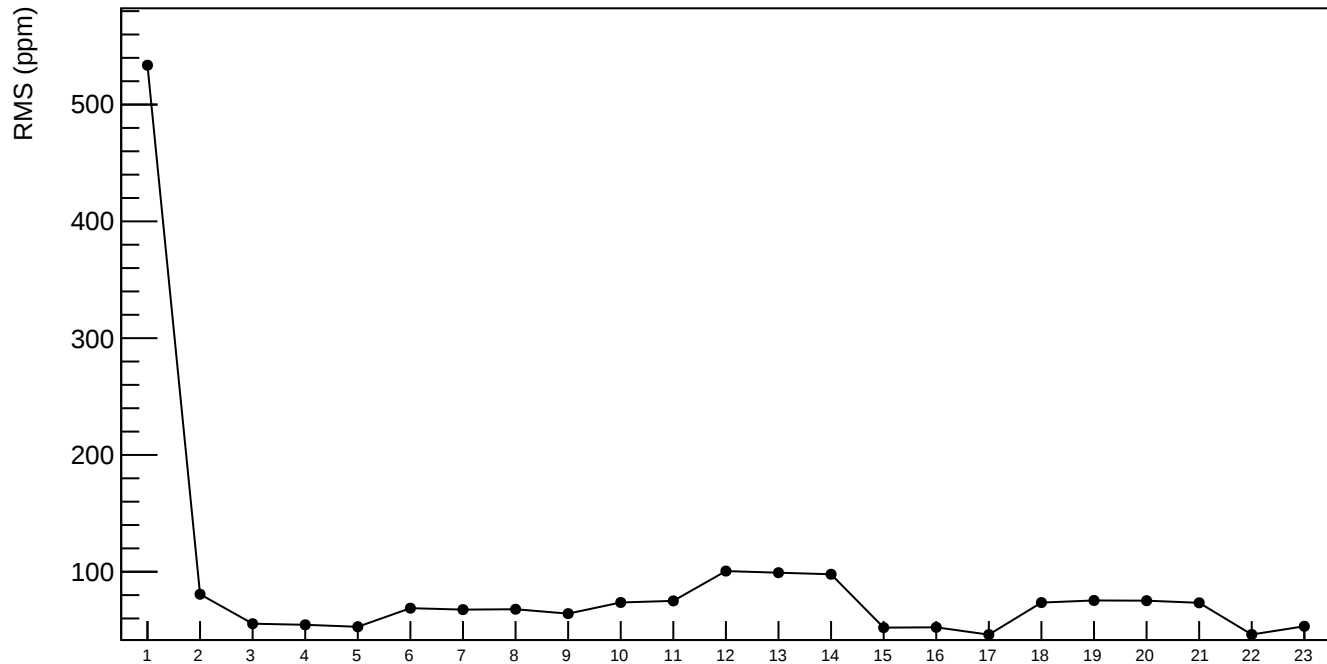
corr_Adet_bpm12X (ppb)



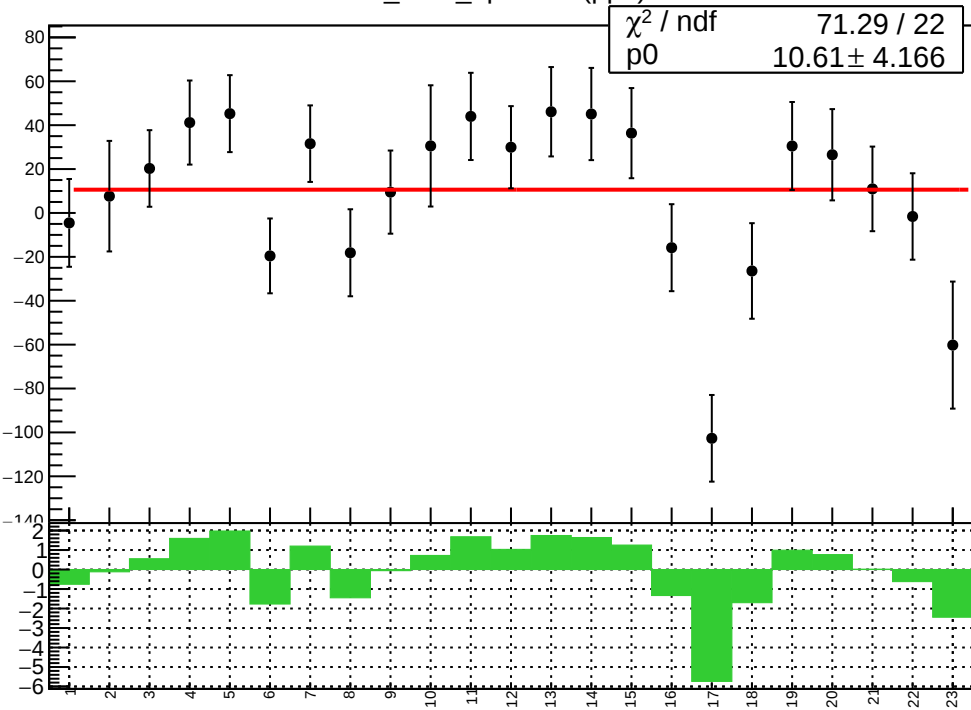
1D pull distribution



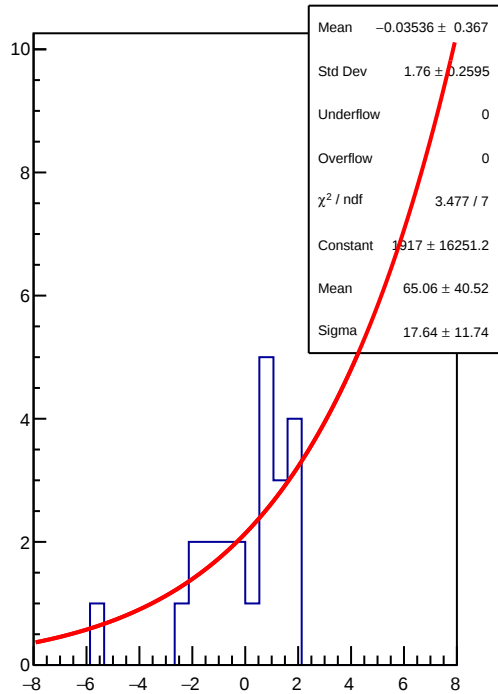
corr_Adet_bpm12X RMS (ppm)



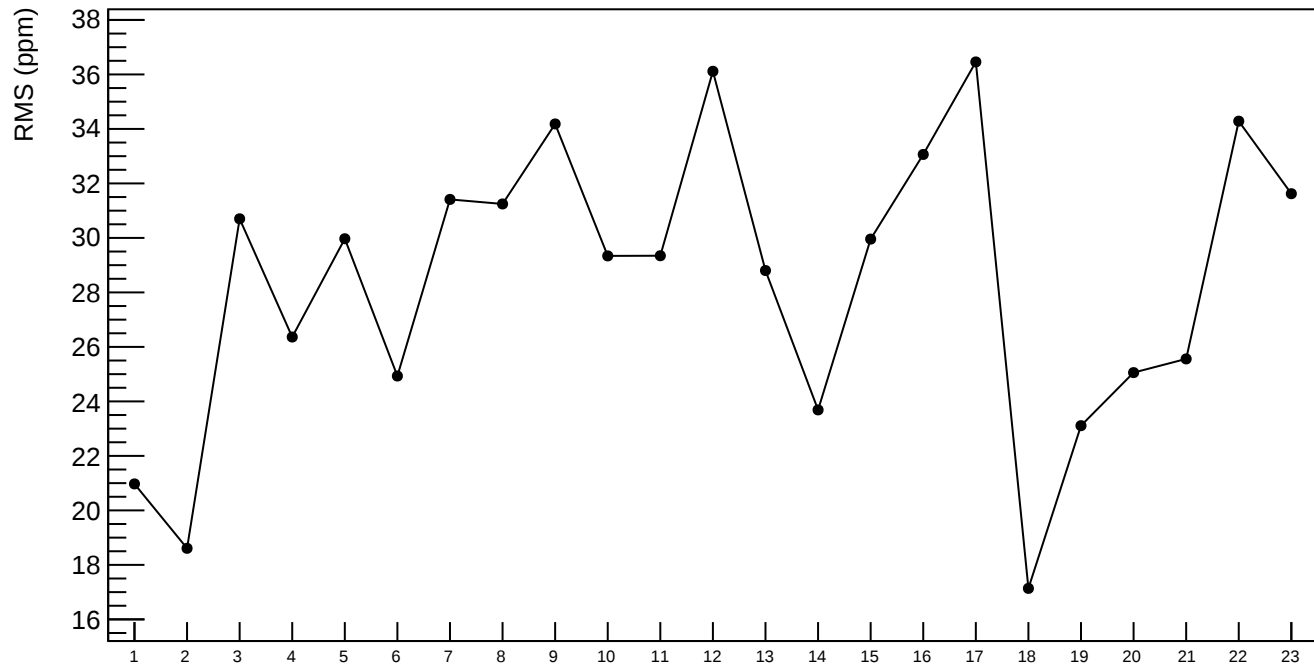
corr_Adet_bpm12Y (ppb)



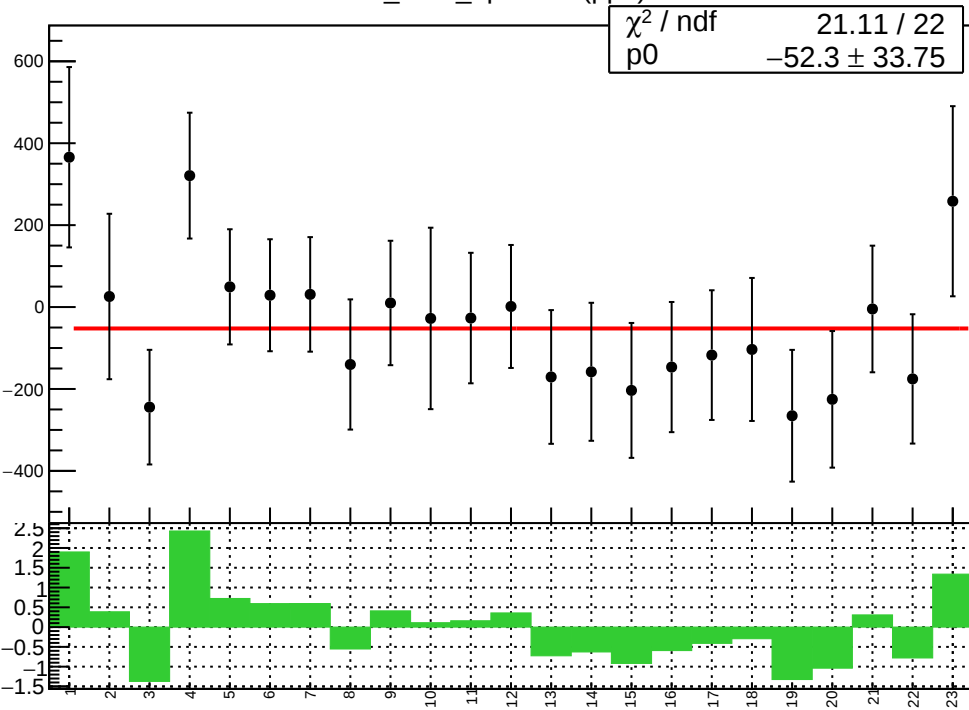
1D pull distribution



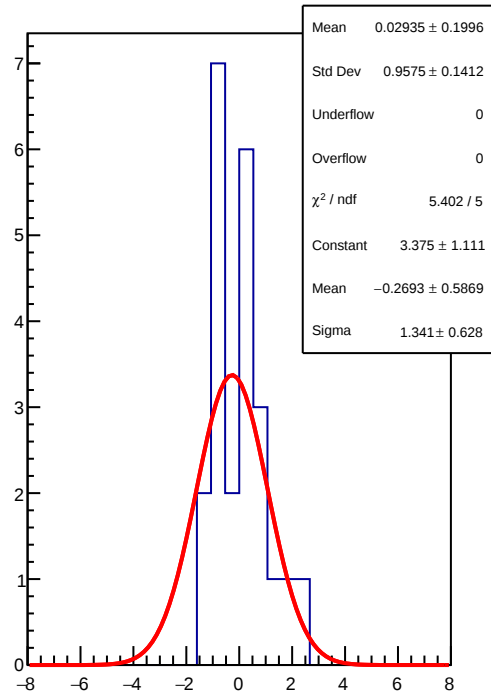
corr_Adet_bpm12Y RMS (ppm)



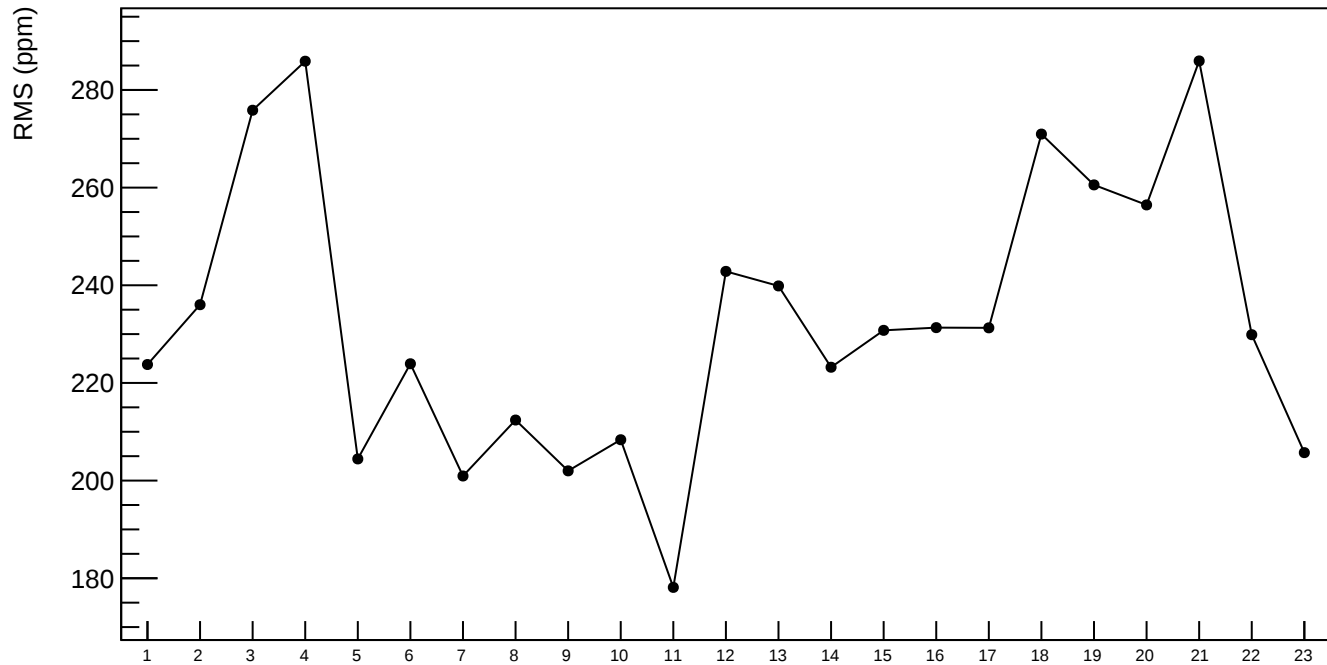
corr_Adet_bpm11X (ppb)



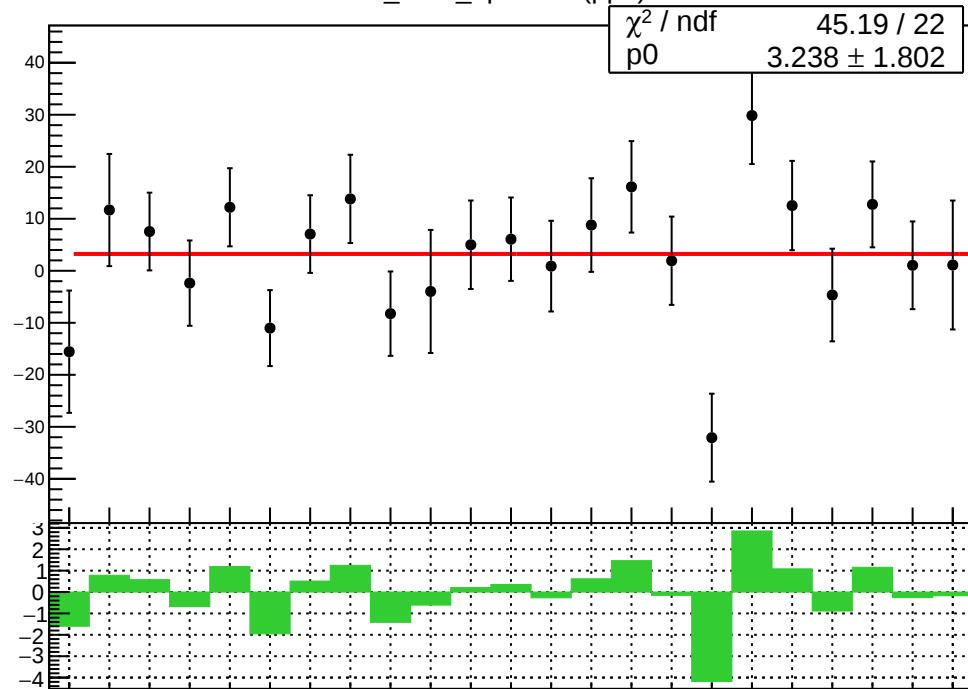
1D pull distribution



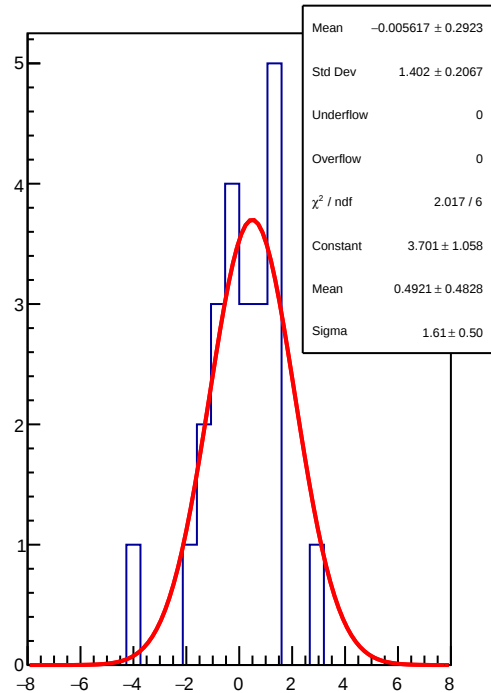
corr_Adet_bpm11X RMS (ppm)



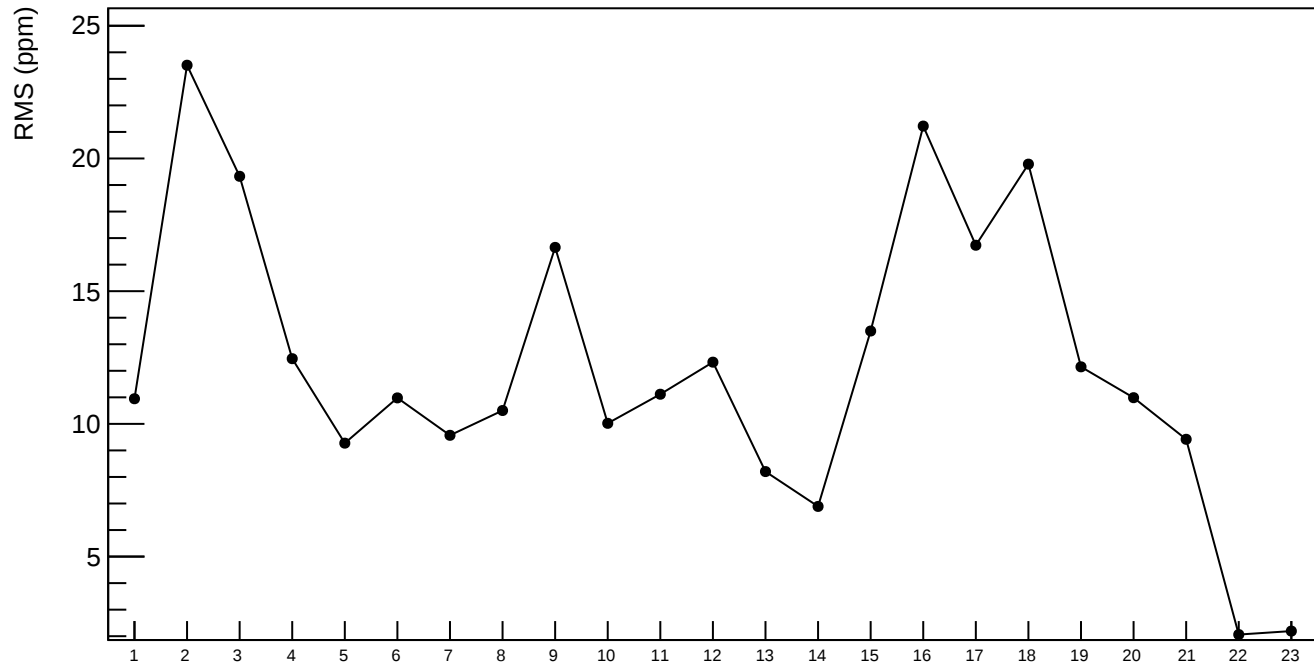
corr_Adet_bpm11Y (ppb)



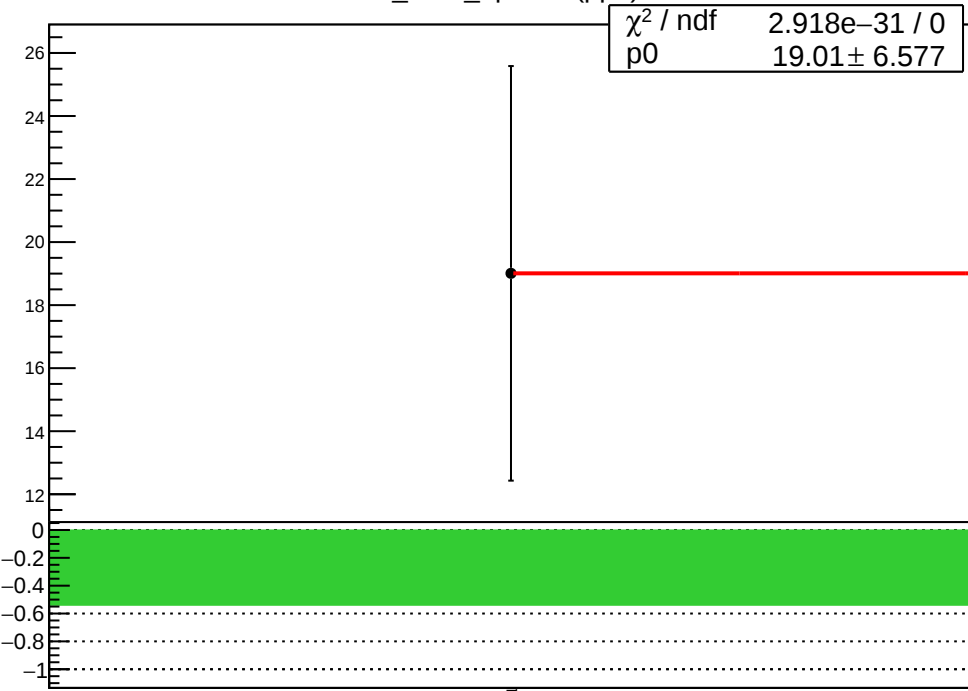
1D pull distribution



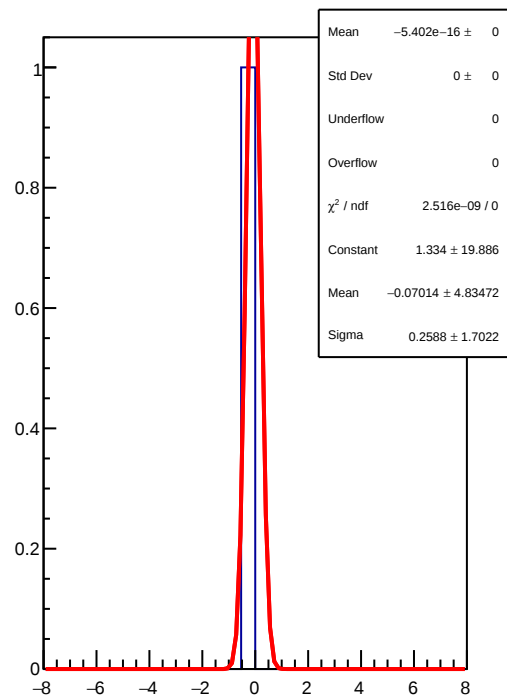
corr_Adet_bpm11Y RMS (ppm)



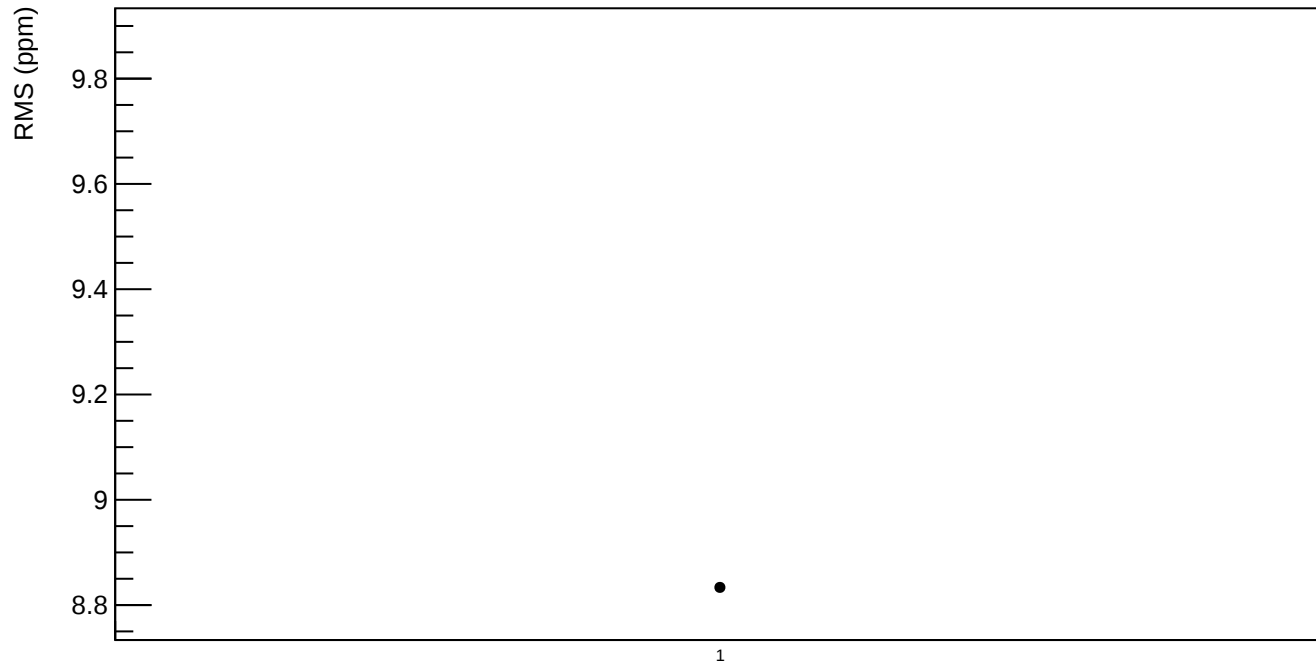
corr_Adet_bpm8X (ppb)



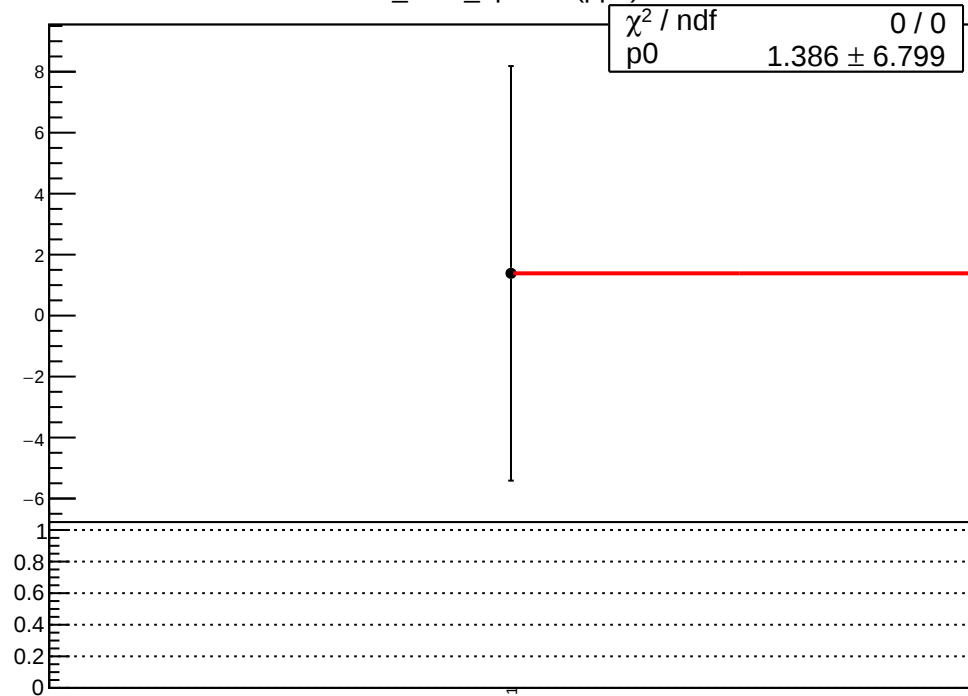
1D pull distribution



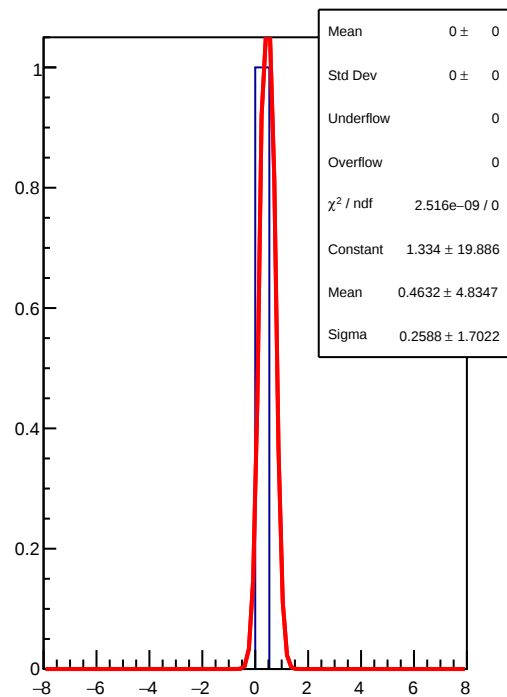
corr_Adet_bpm8X RMS (ppm)



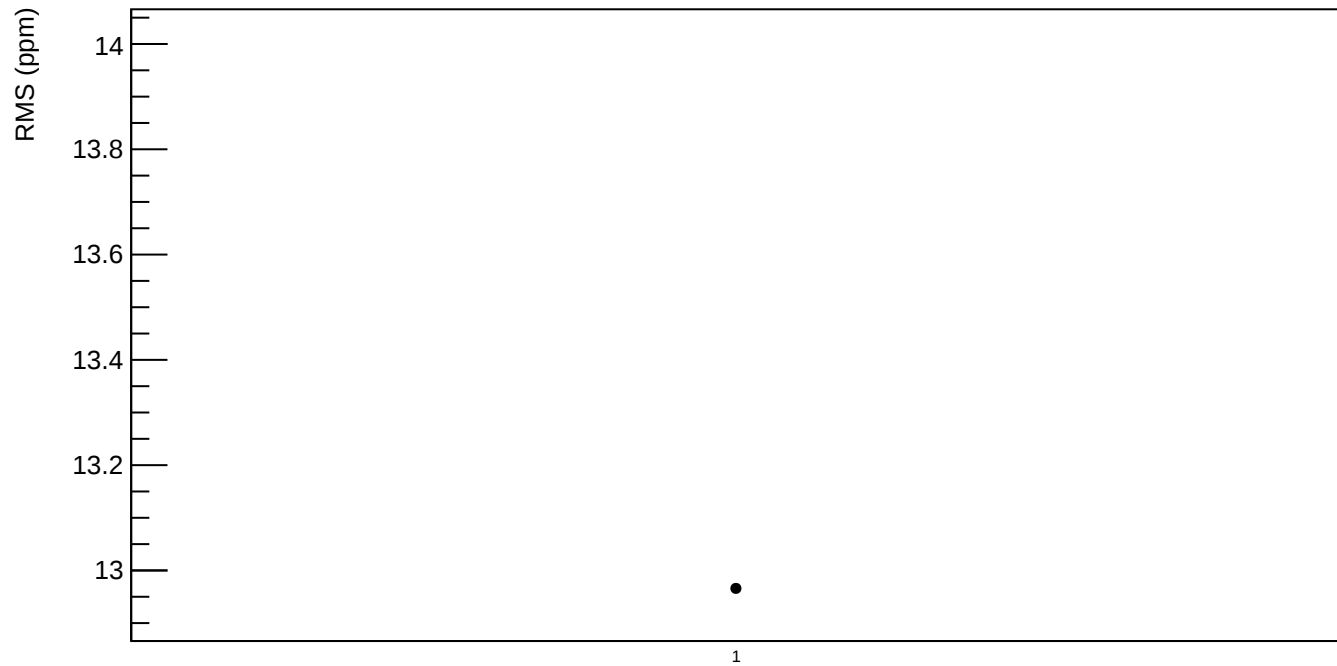
corr_Adet_bpm8Y (ppb)



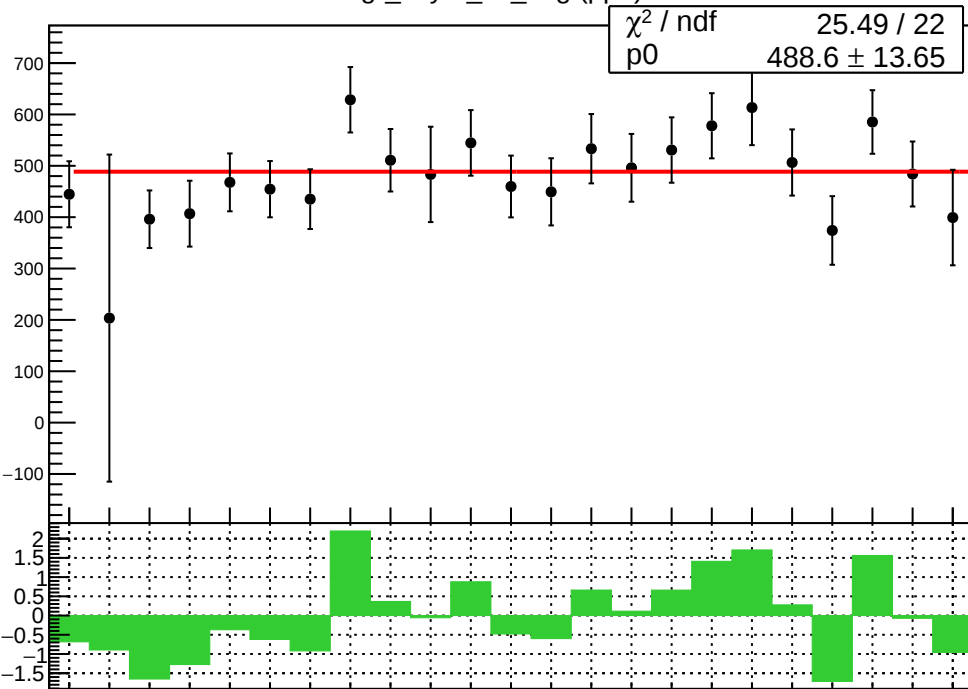
1D pull distribution



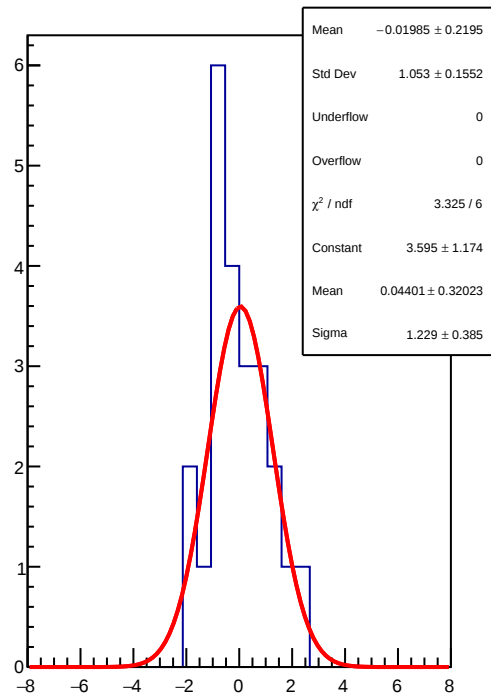
corr_Adet_bpm8Y RMS (ppm)



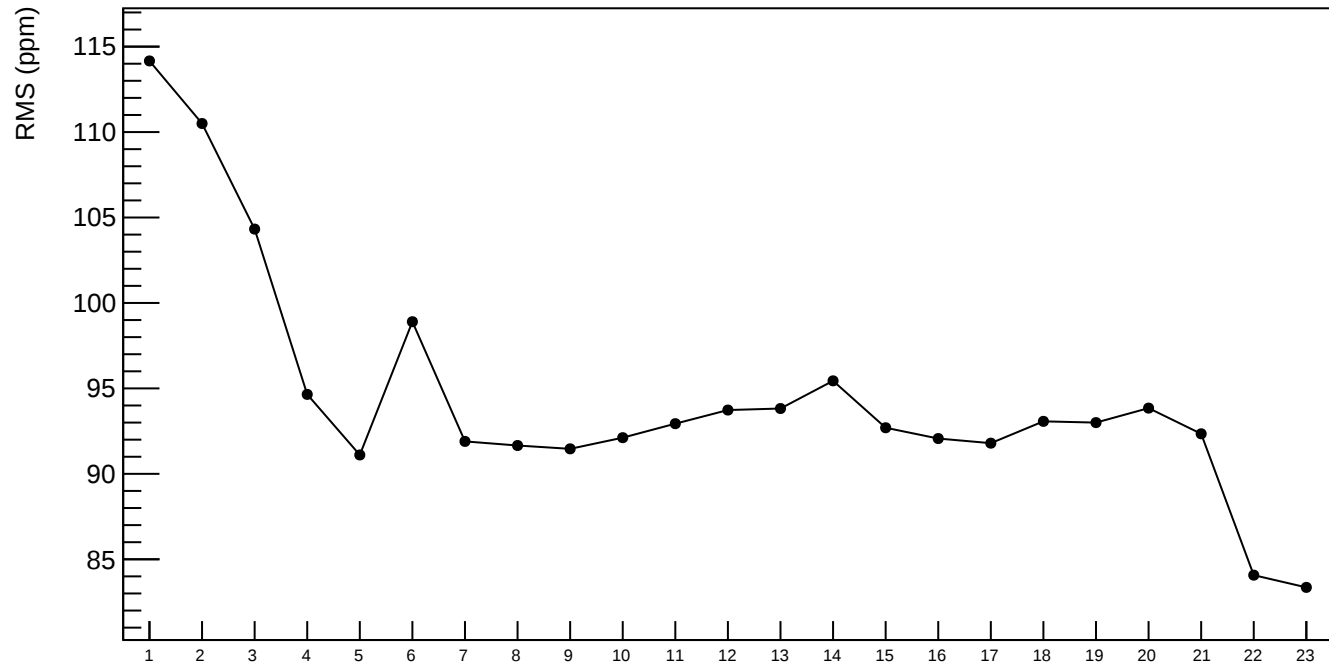
lagr_asym_us_avg (ppb)



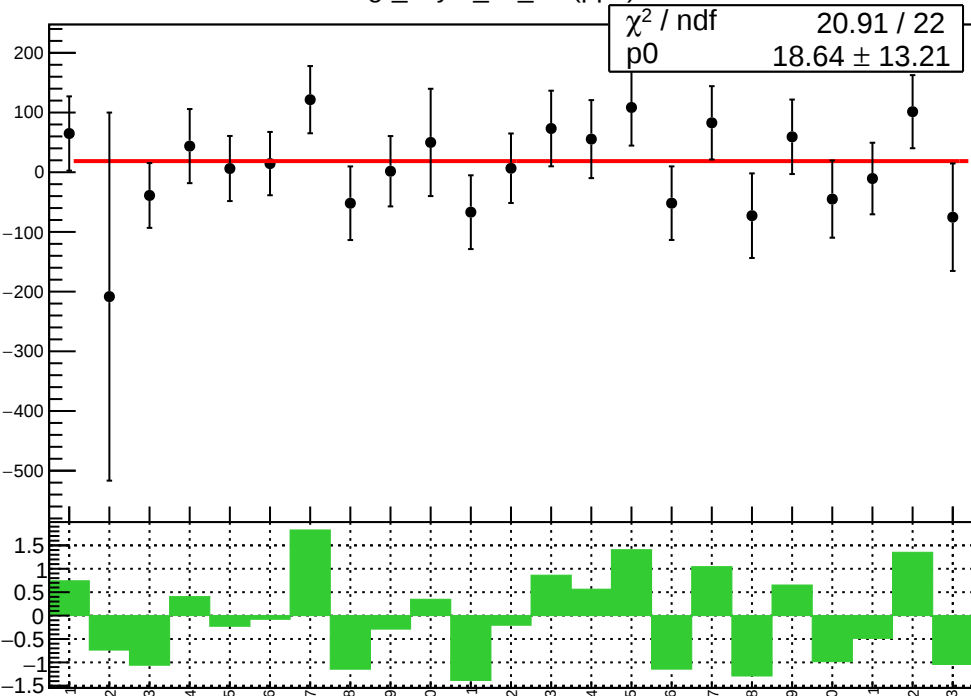
1D pull distribution



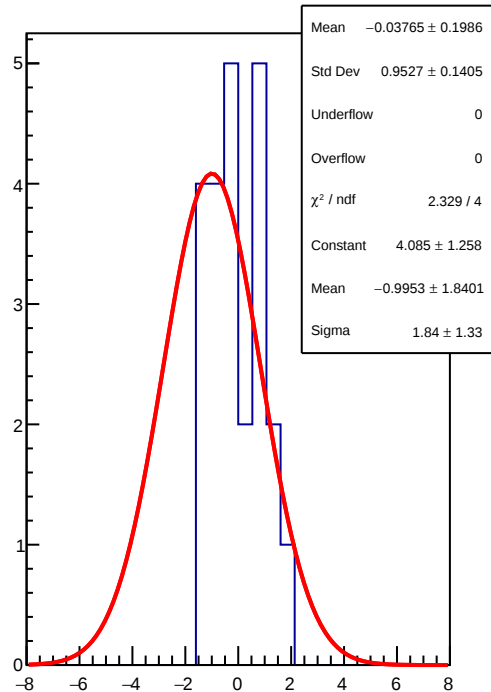
lagr_asym_us_avg RMS (ppm)



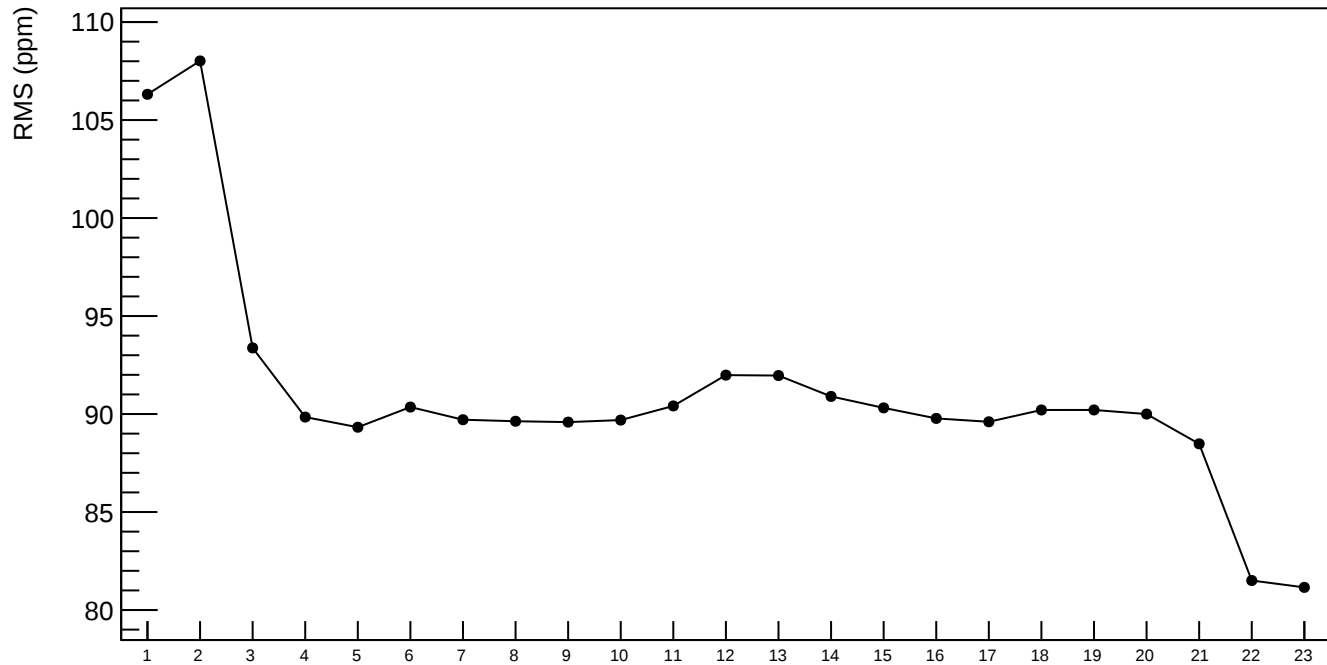
lagr_asym_us_dd (ppb)



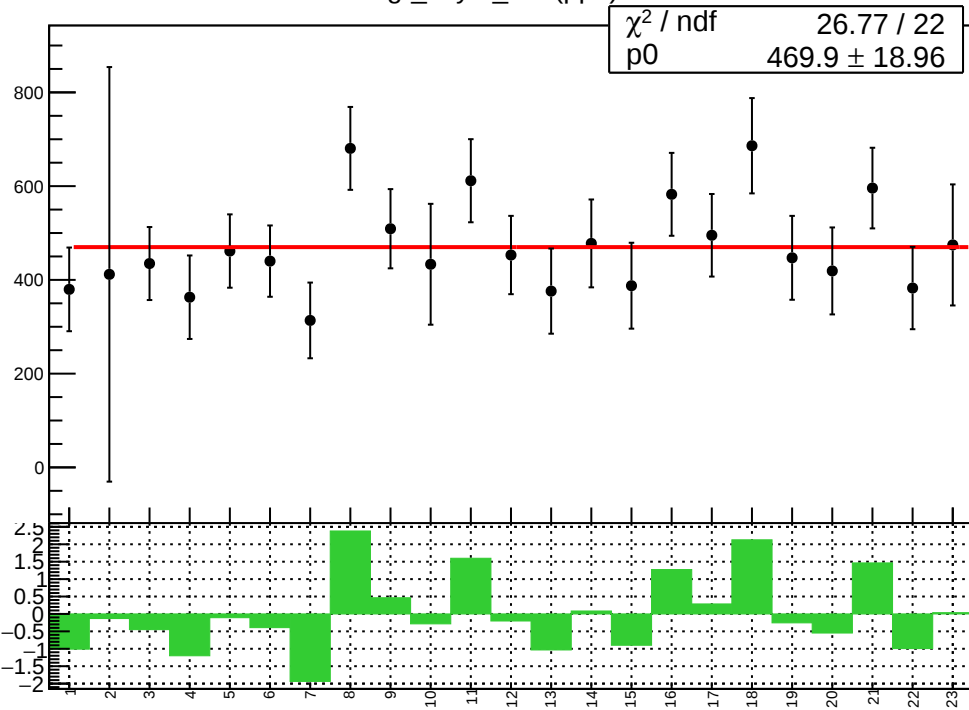
1D pull distribution



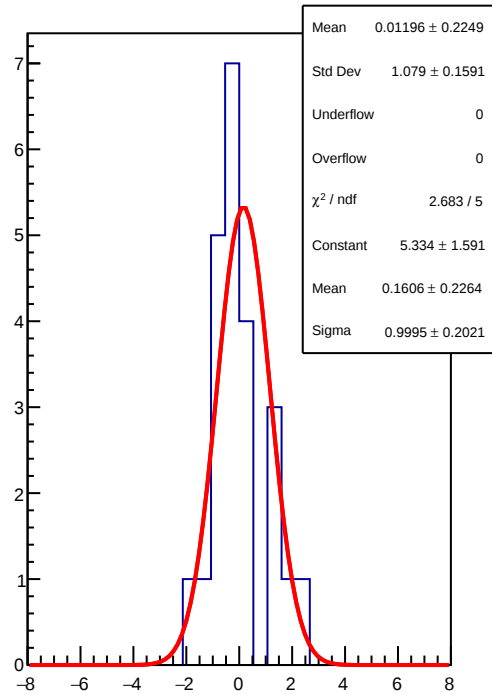
lagr_asym_us_dd RMS (ppm)



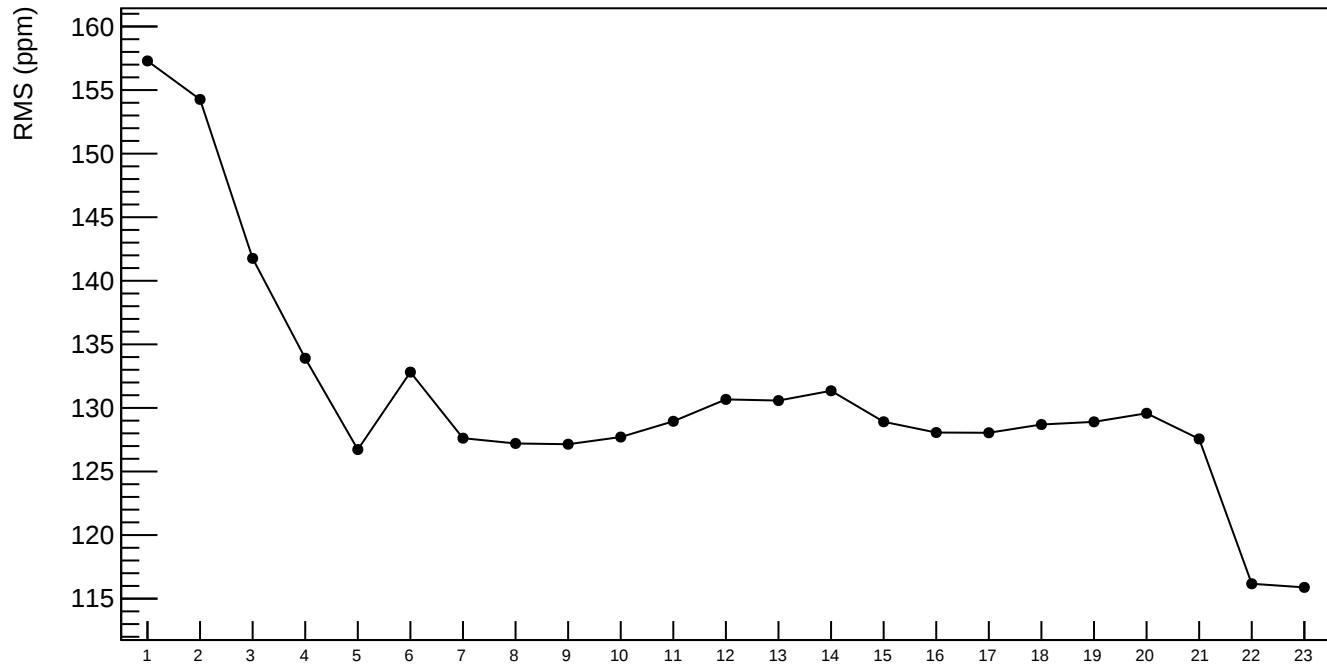
lagr_asym_usr (ppb)



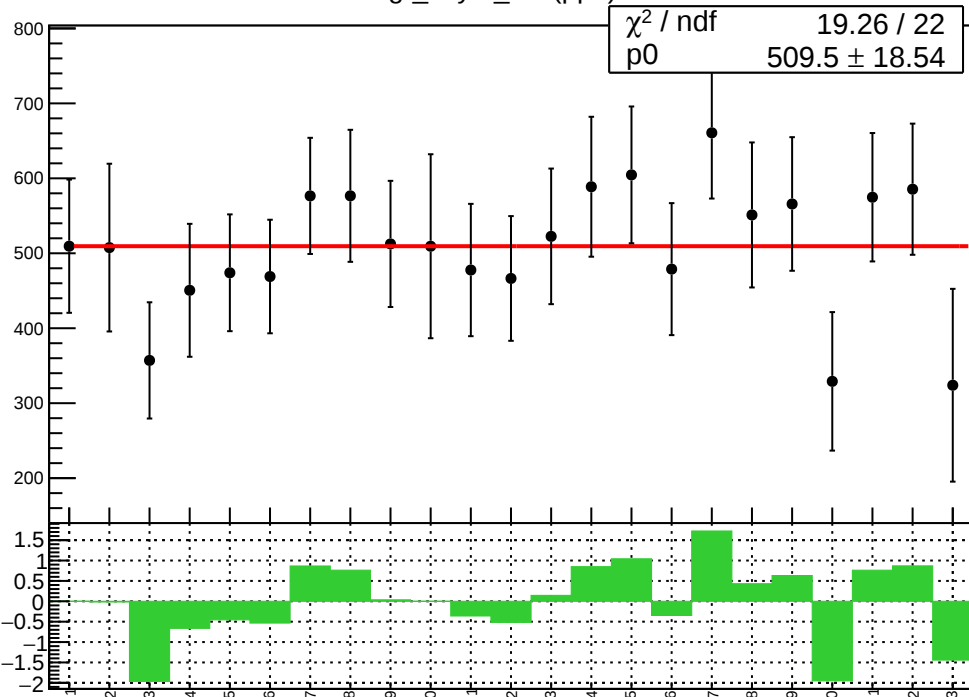
1D pull distribution



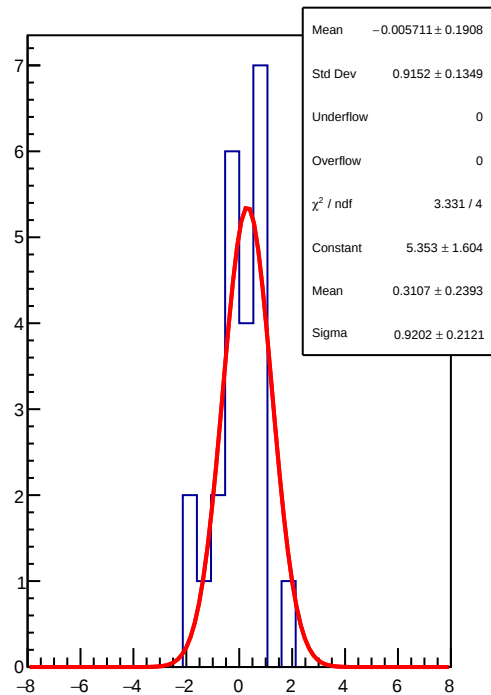
lagr_asym_usr RMS (ppm)



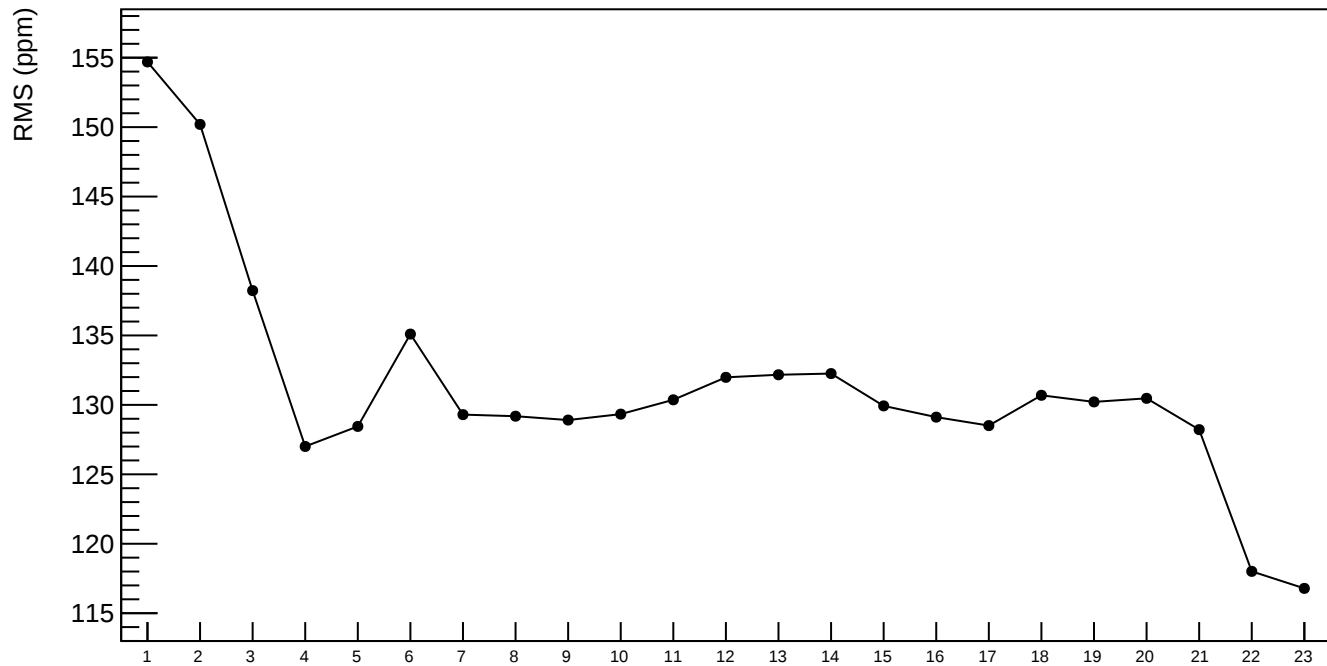
lagr_asym_usl (ppb)



1D pull distribution



lagr_asym_usl RMS (ppm)

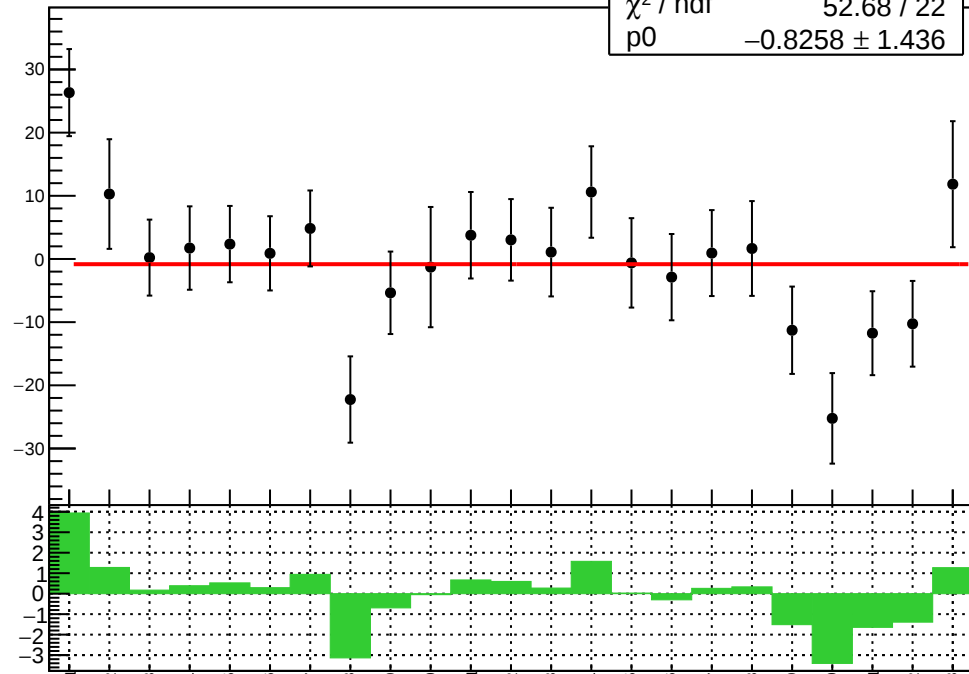


diff_bpm4eX (nm)

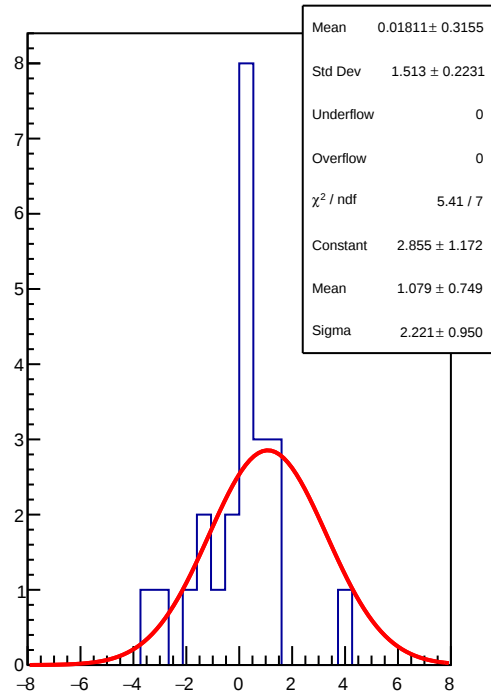
 χ^2 / ndf

52.68 / 22

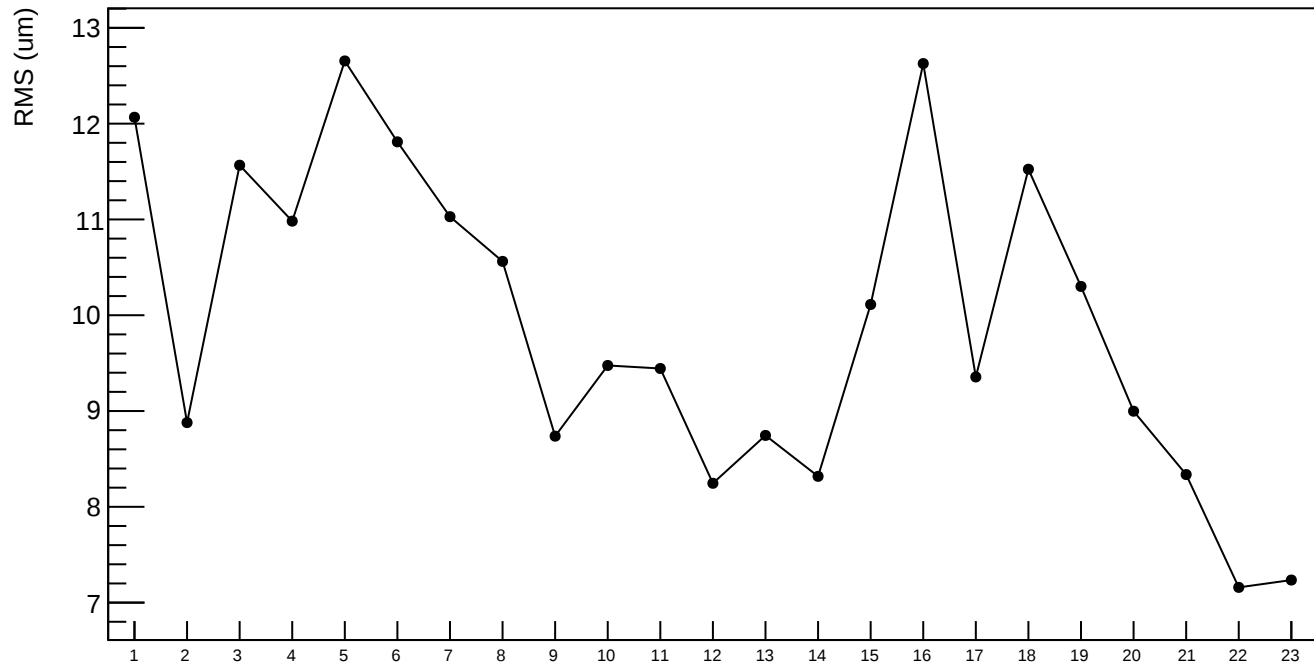
p0

 -0.8258 ± 1.436 

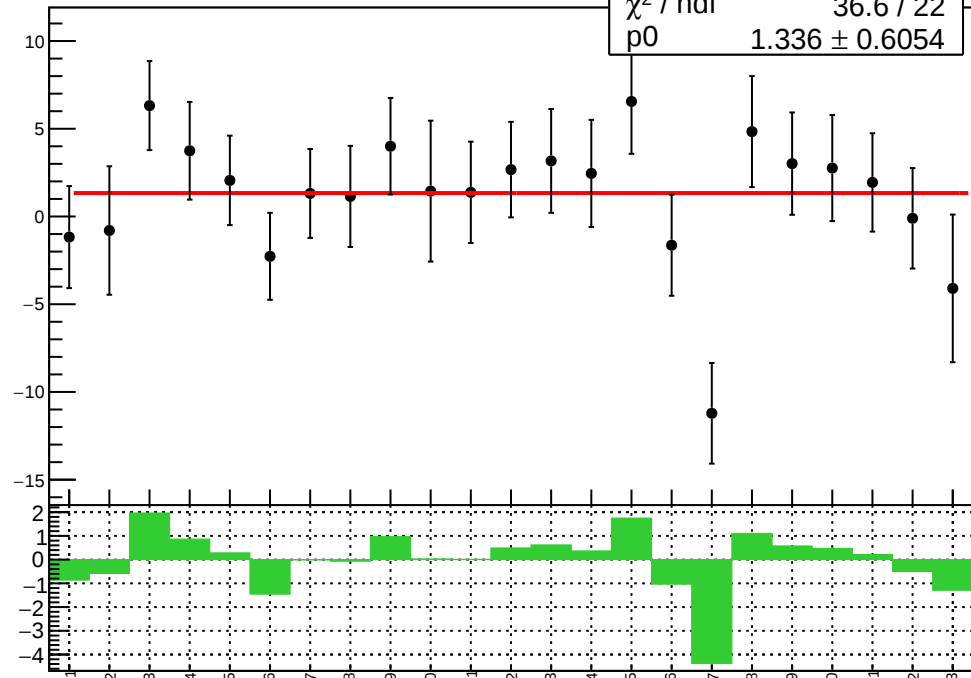
1D pull distribution



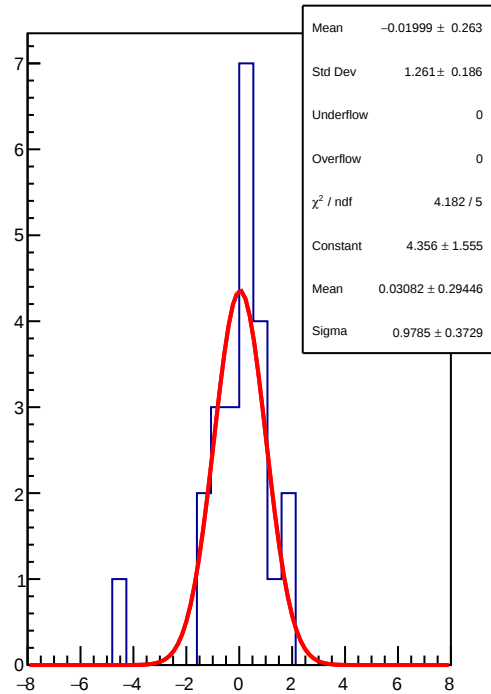
diff_bpm4eX RMS (μm)



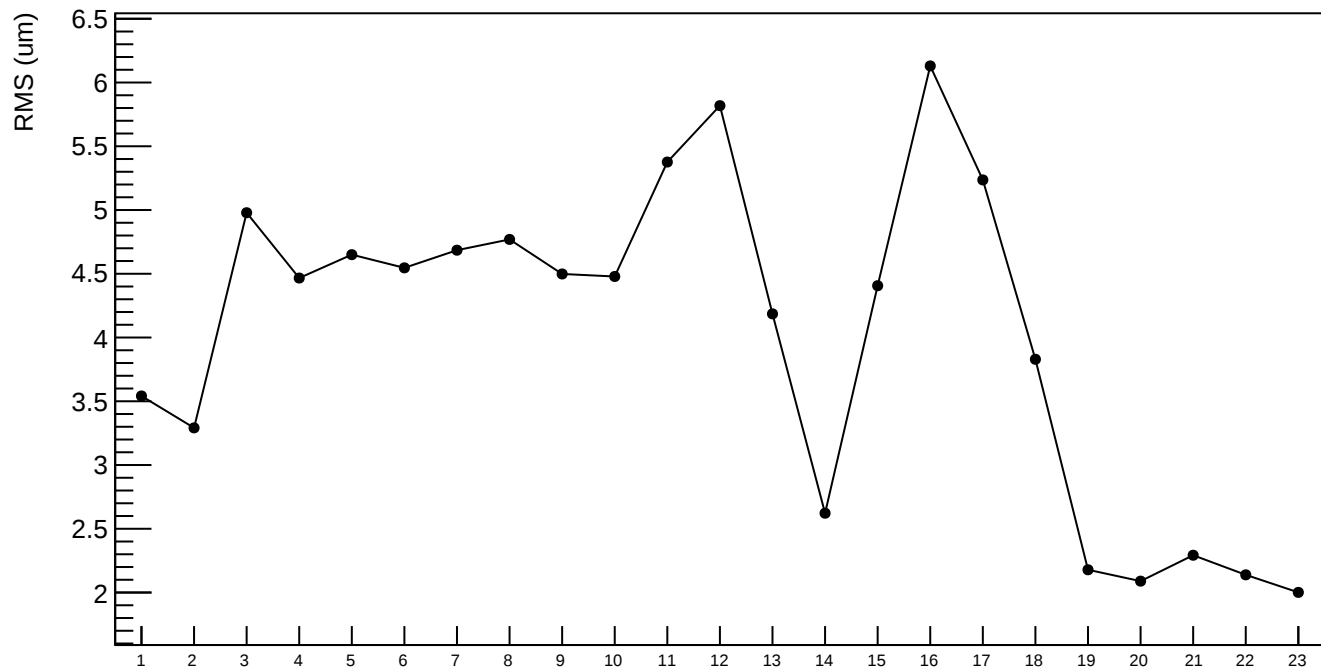
diff_bpm4eY (nm)

 χ^2 / nfd 36.6 / 22
p0 1.336 ± 0.6054 

1D pull distribution



diff_bpm4eY RMS (μm)

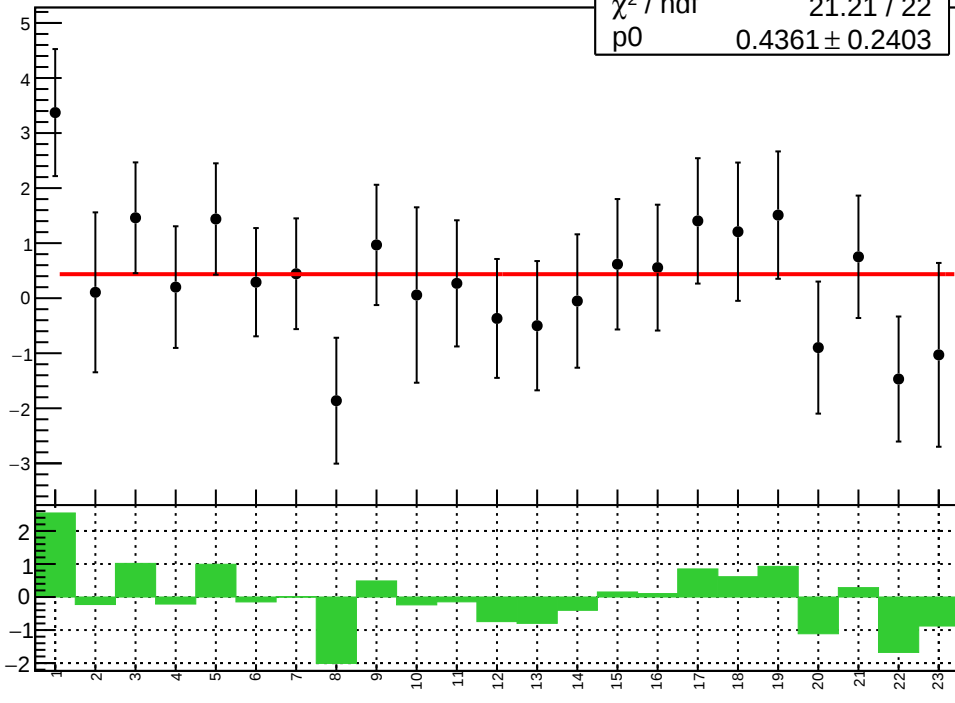


diff_bpm4aX (nm)

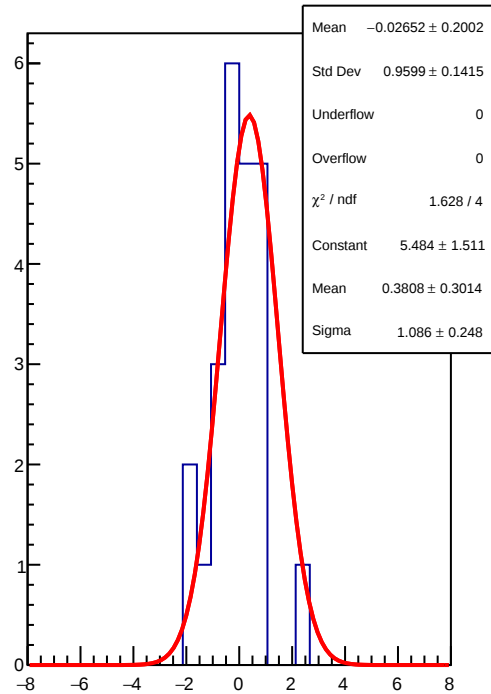
 χ^2 / ndf

21.21 / 22

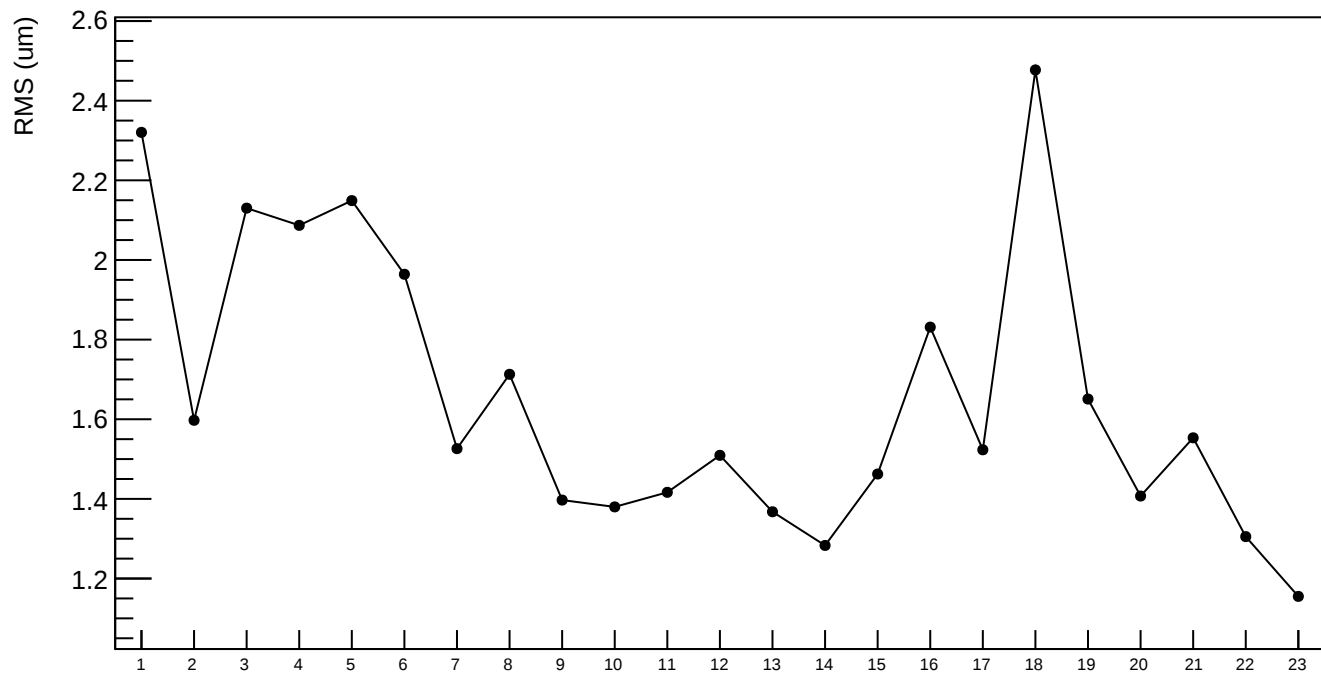
p0

 0.4361 ± 0.2403 

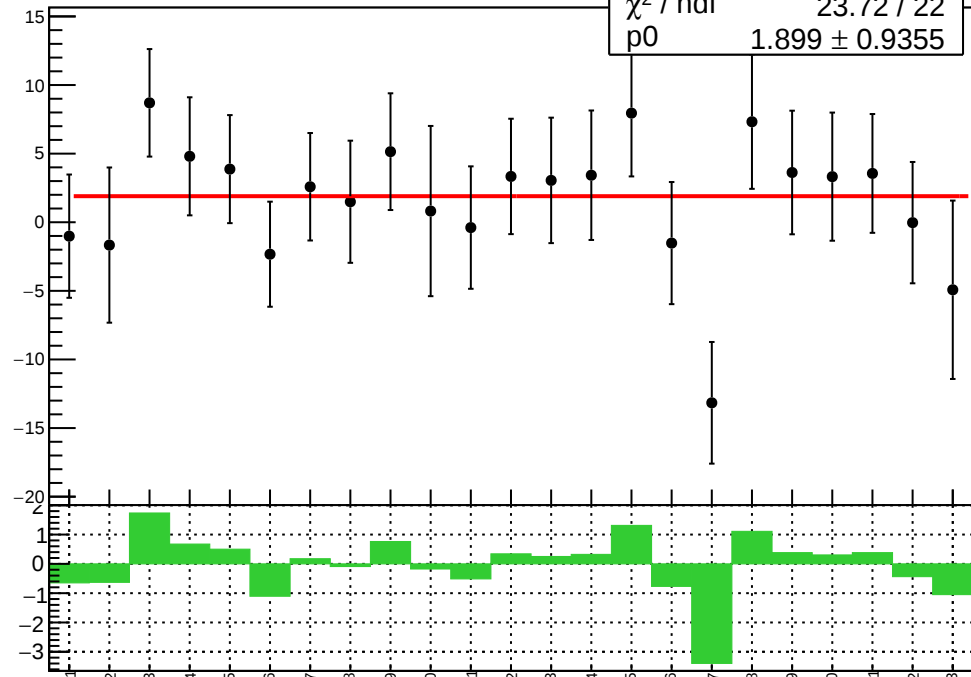
1D pull distribution



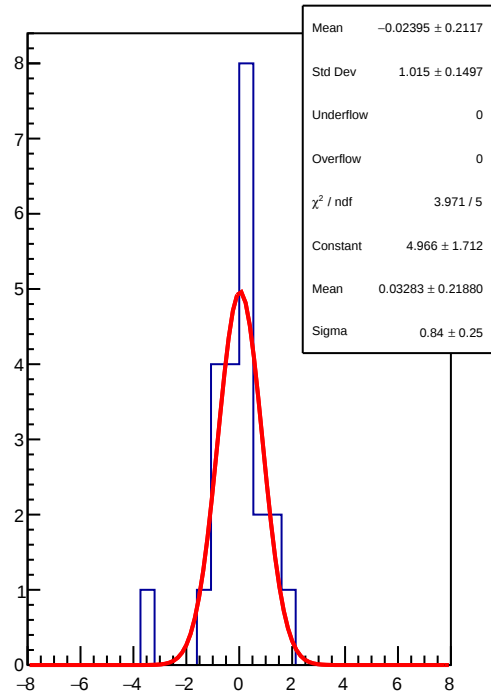
diff_bpm4aX RMS (μm)



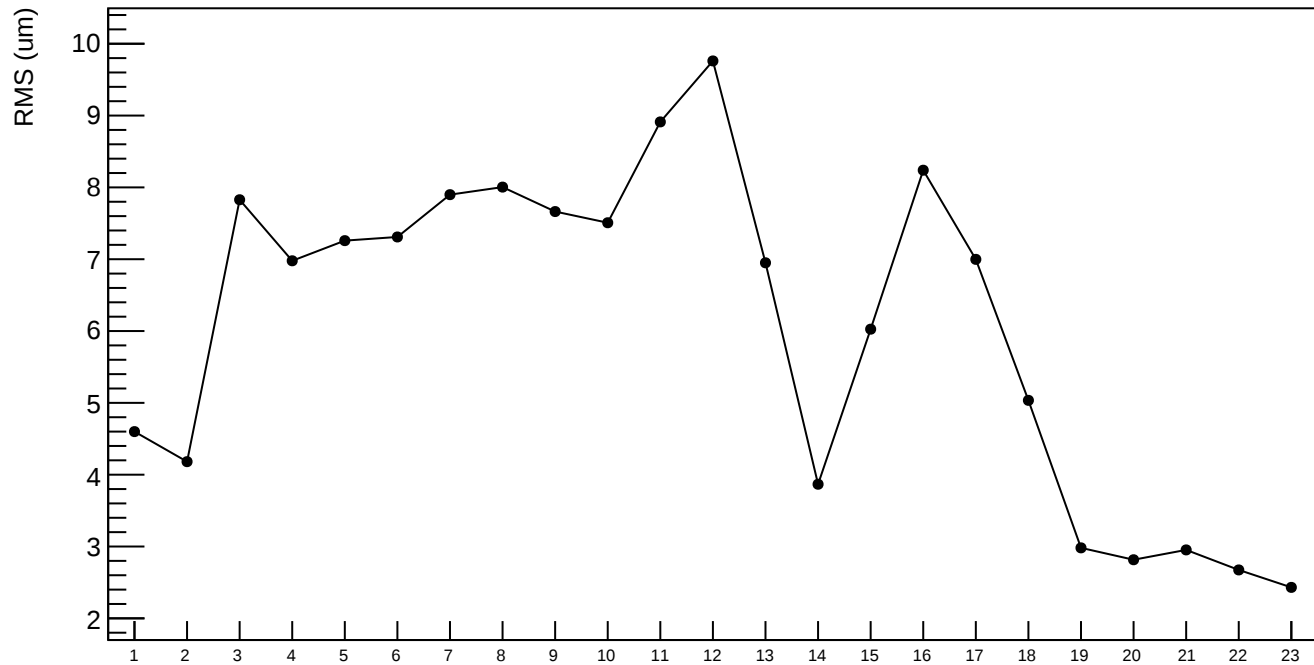
diff_bpm4aY (nm)

 χ^2 / nfd 23.72 / 22
p0 1.899 ± 0.9355 

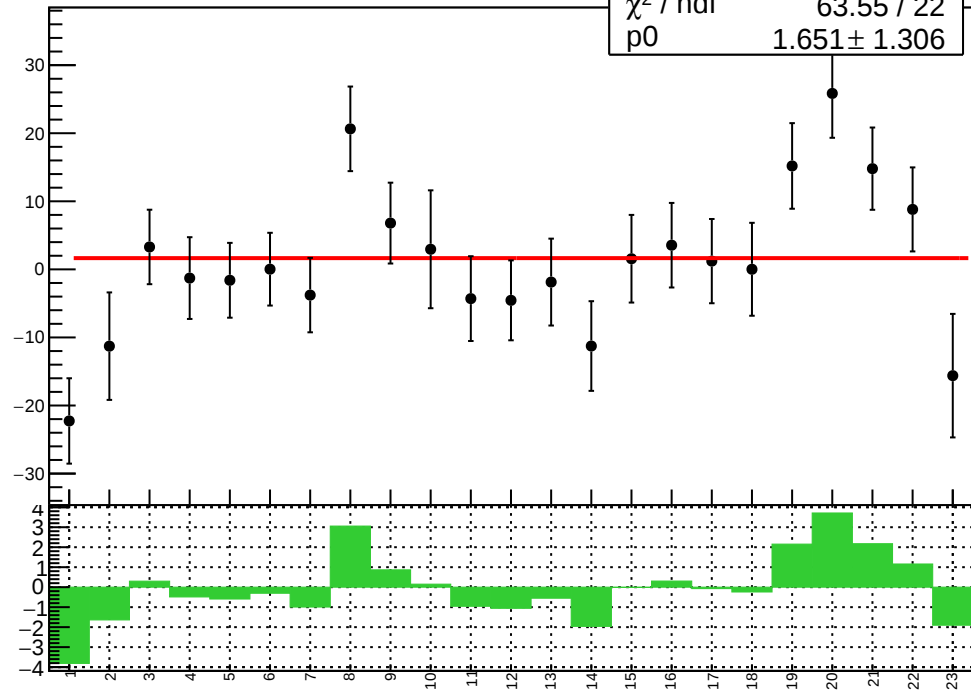
1D pull distribution



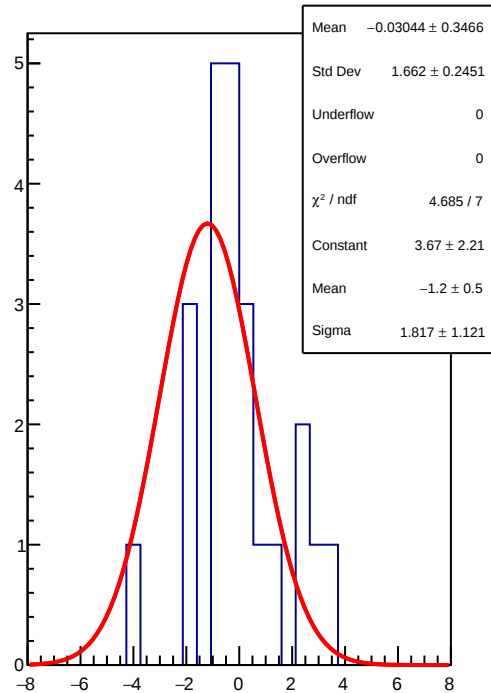
diff_bpm4aY RMS (μm)



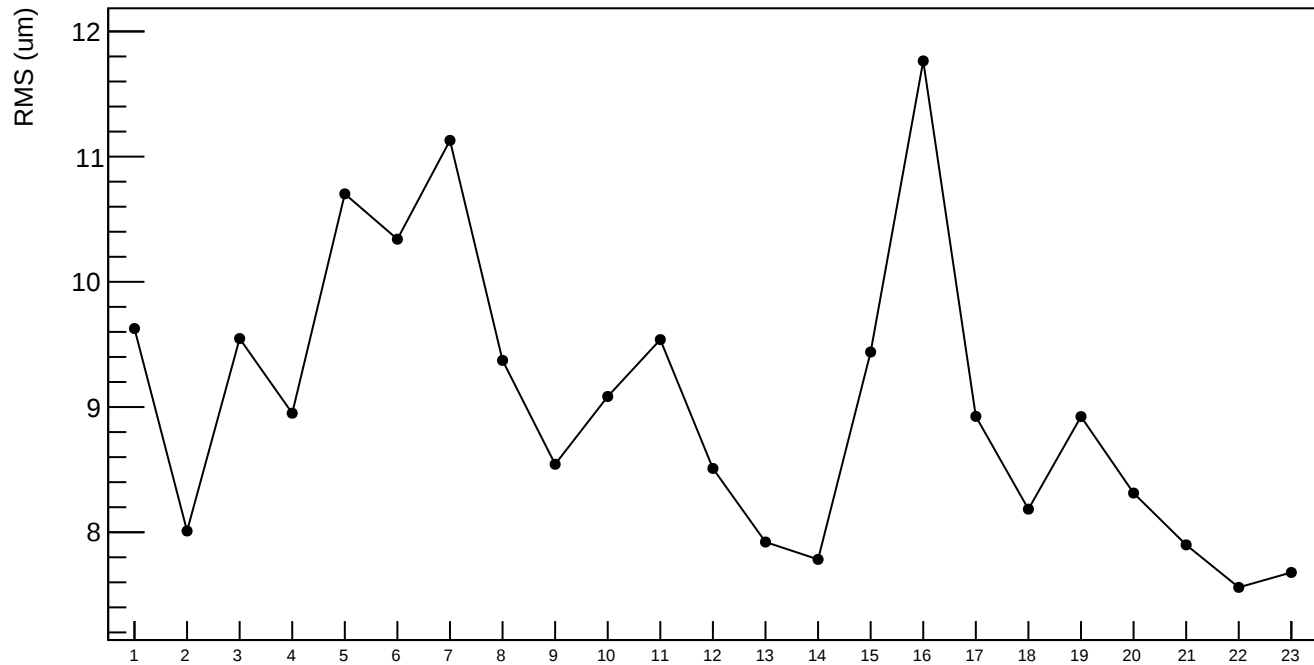
diff_bpm1X (nm)

 χ^2 / ndf
p063.55 / 22
 1.651 ± 1.306 

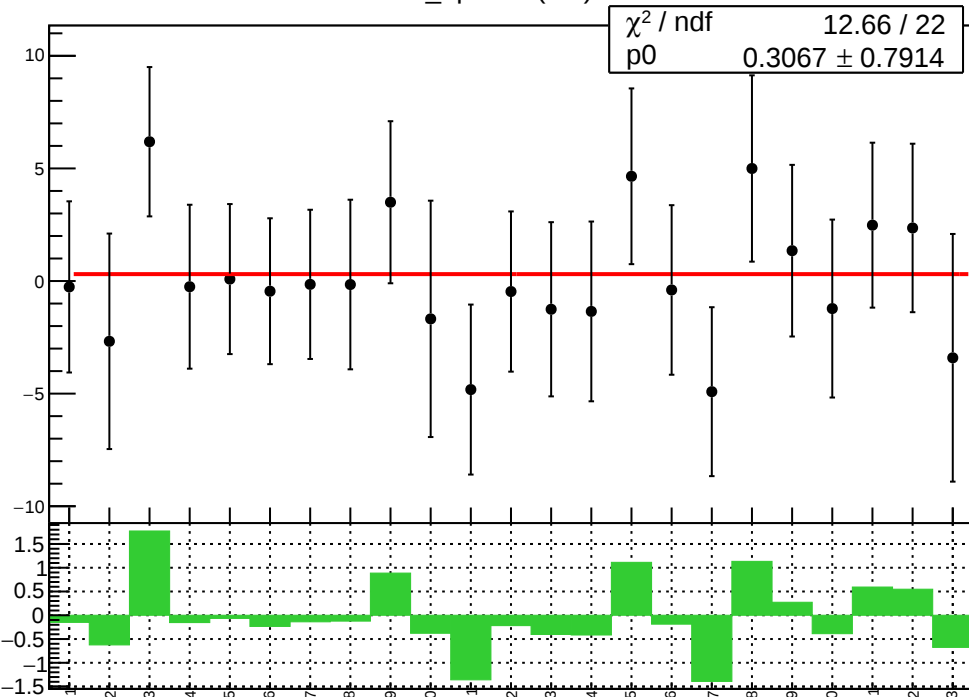
1D pull distribution



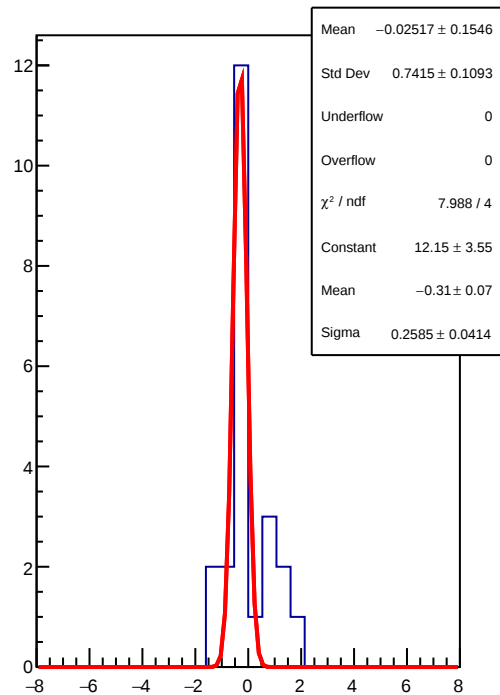
diff_bpm1X RMS (μm)



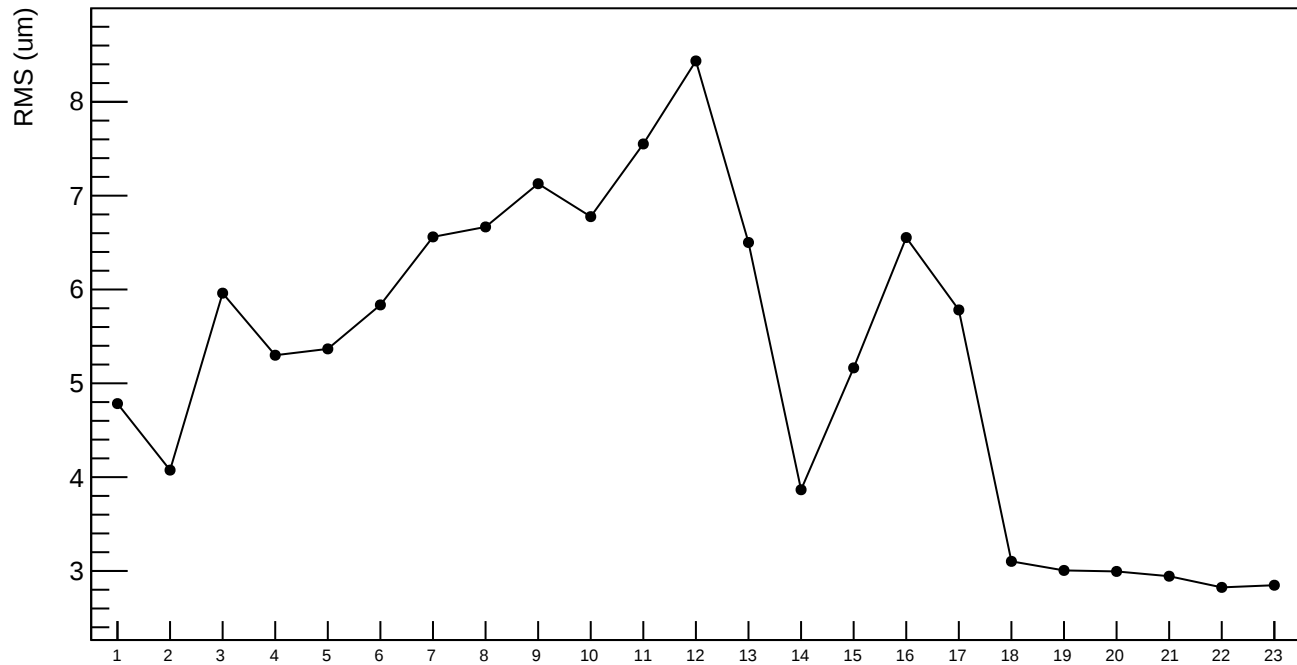
diff_bpm1Y (nm)



1D pull distribution



diff_bpm1Y RMS (μm)

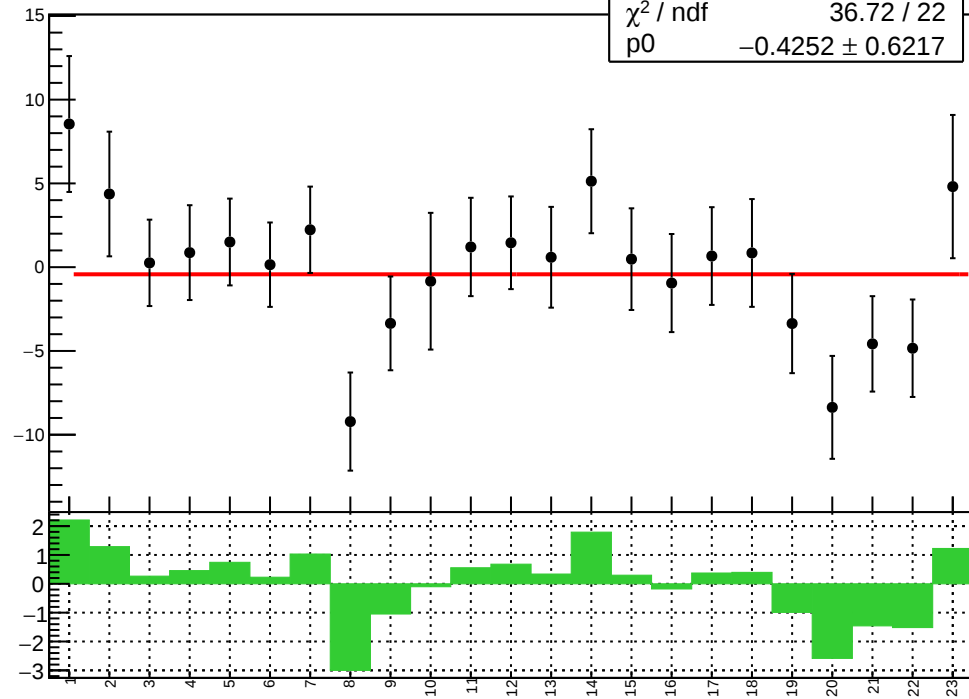


diff_bpm16X (nm)

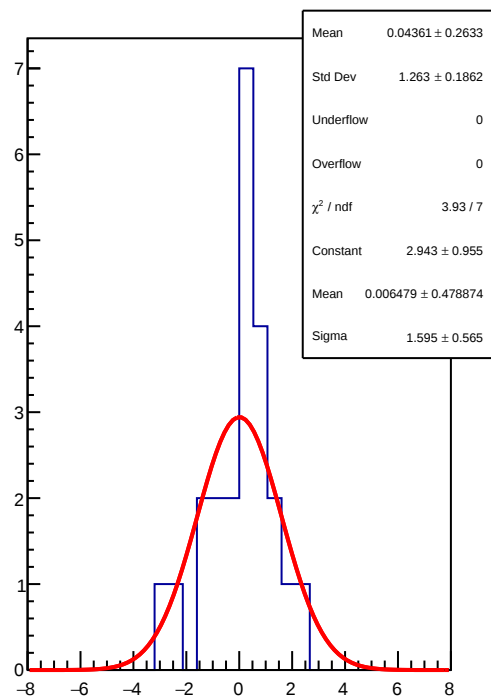
 χ^2 / ndf

36.72 / 22

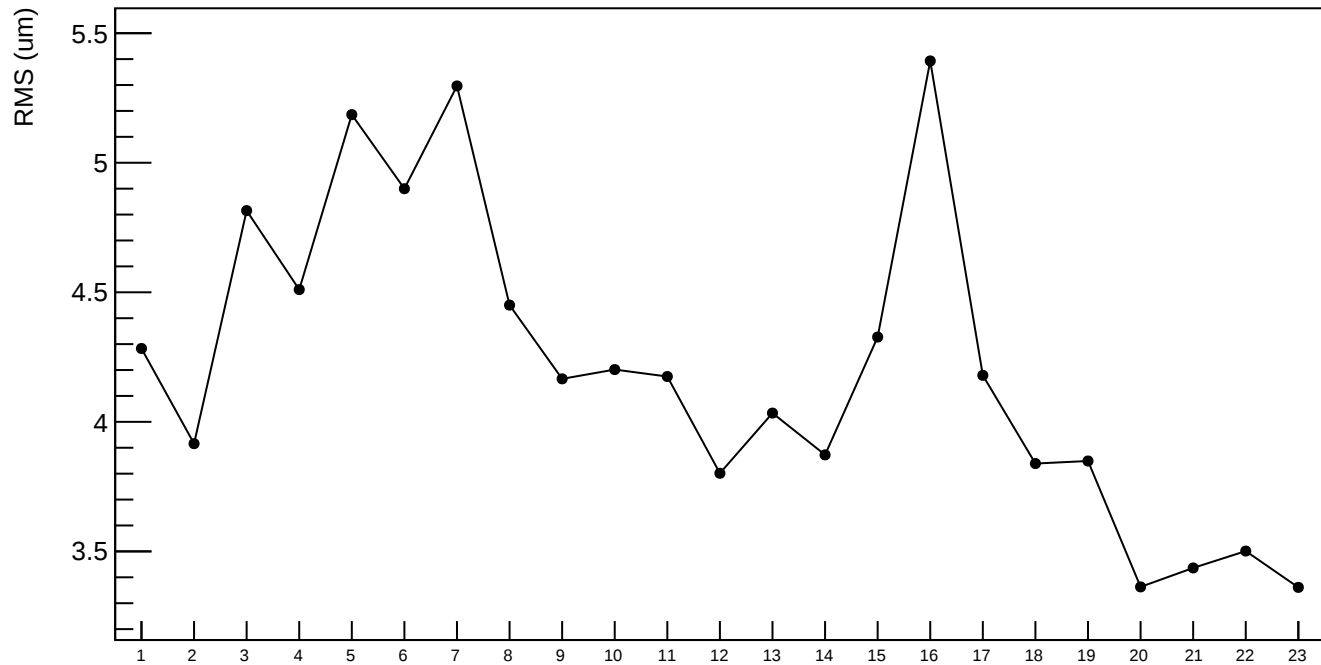
p0

 -0.4252 ± 0.6217 

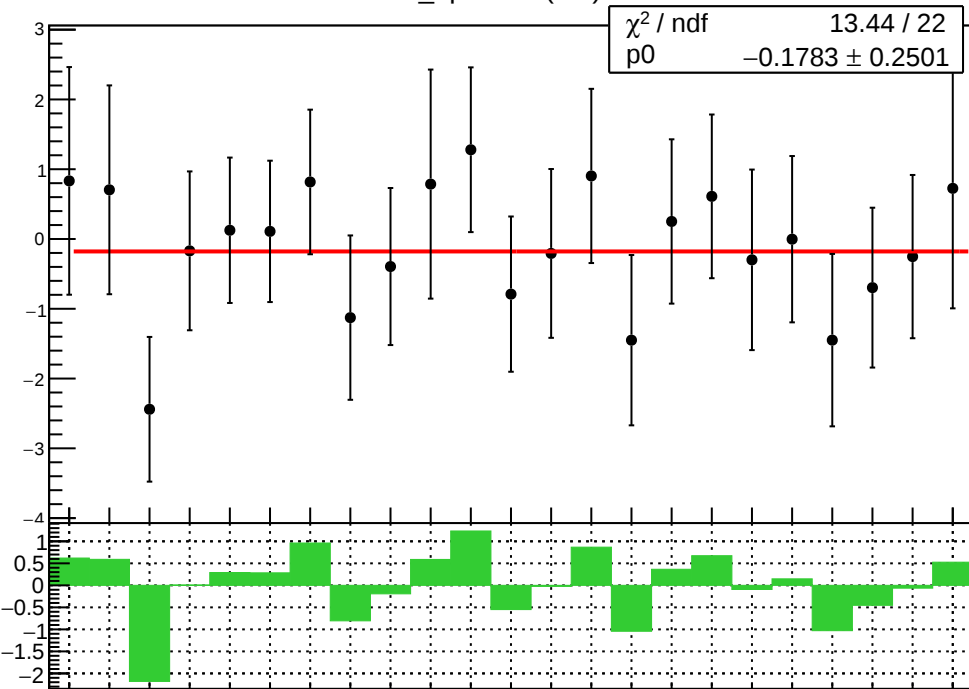
1D pull distribution



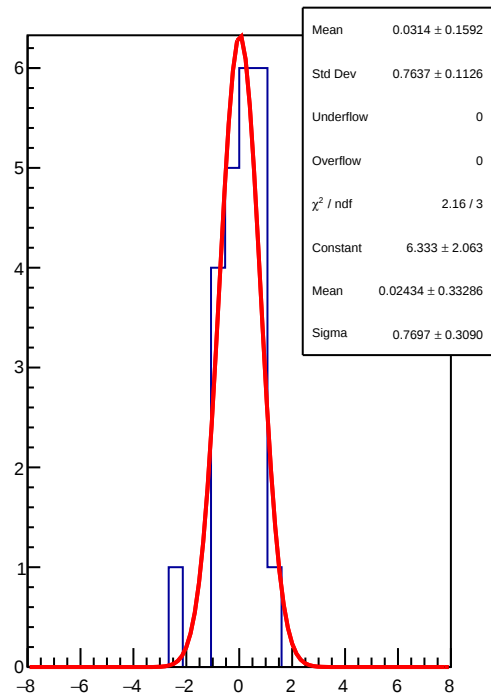
diff_bpm16X RMS (μm)



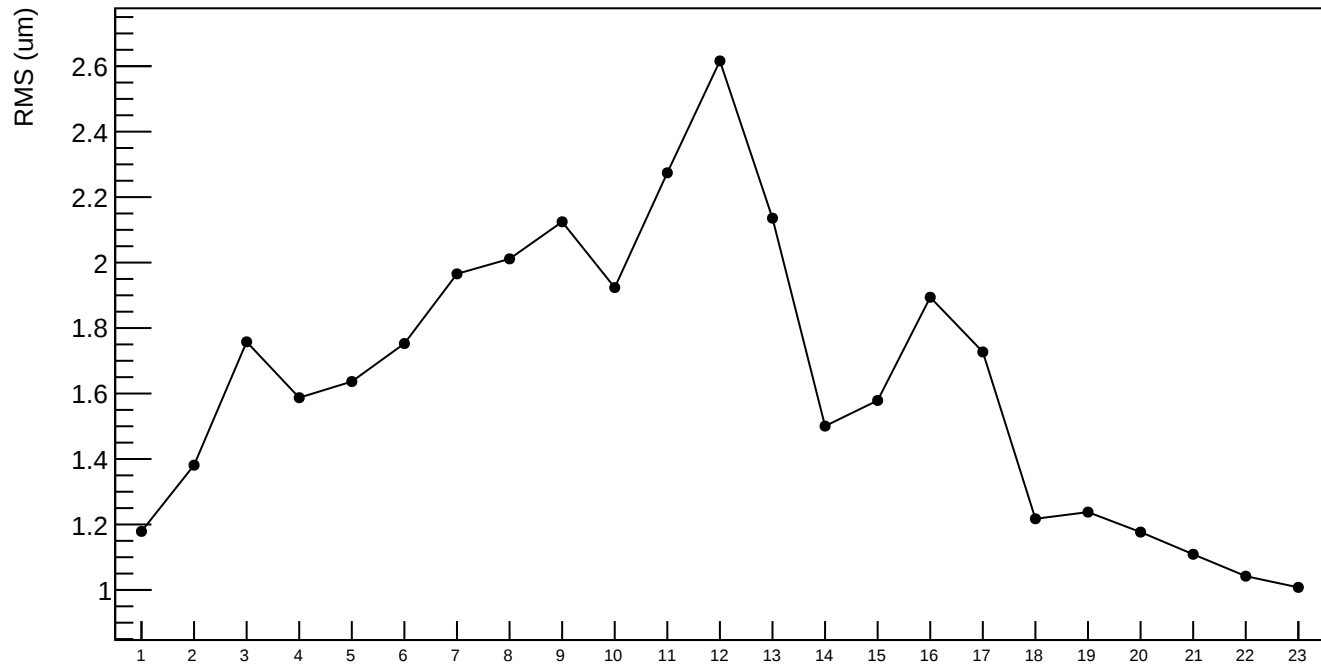
diff_bpm16Y (nm)



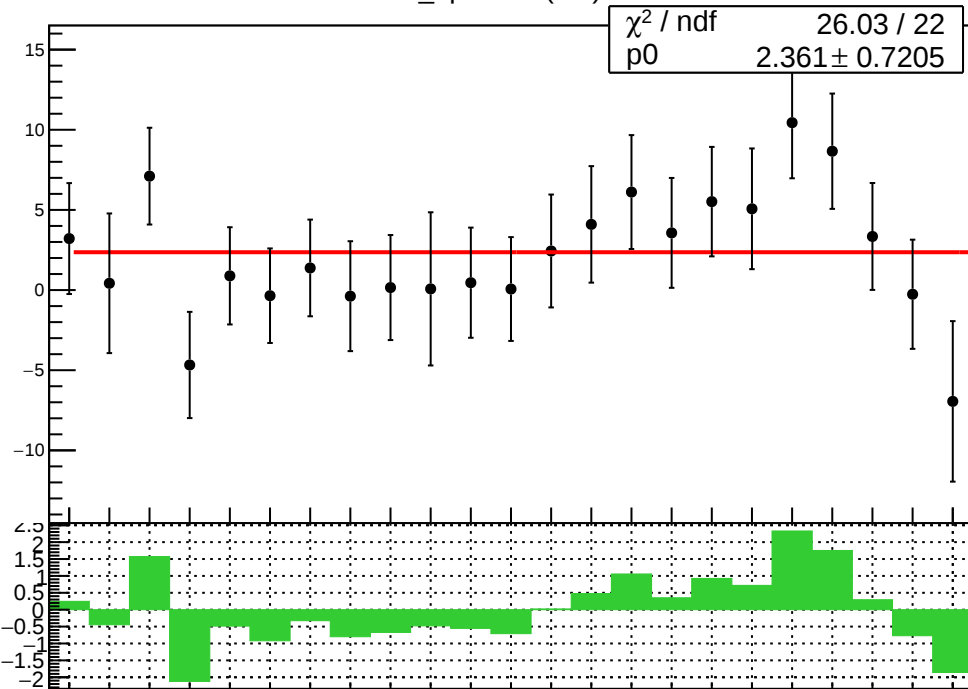
1D pull distribution



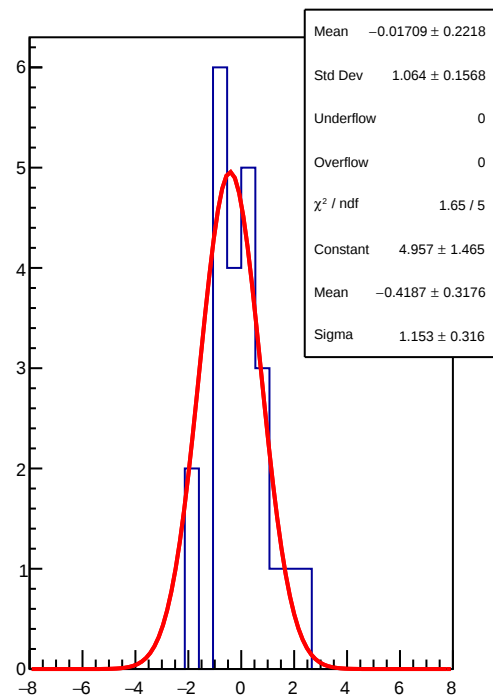
diff_bpm16Y RMS (μm)



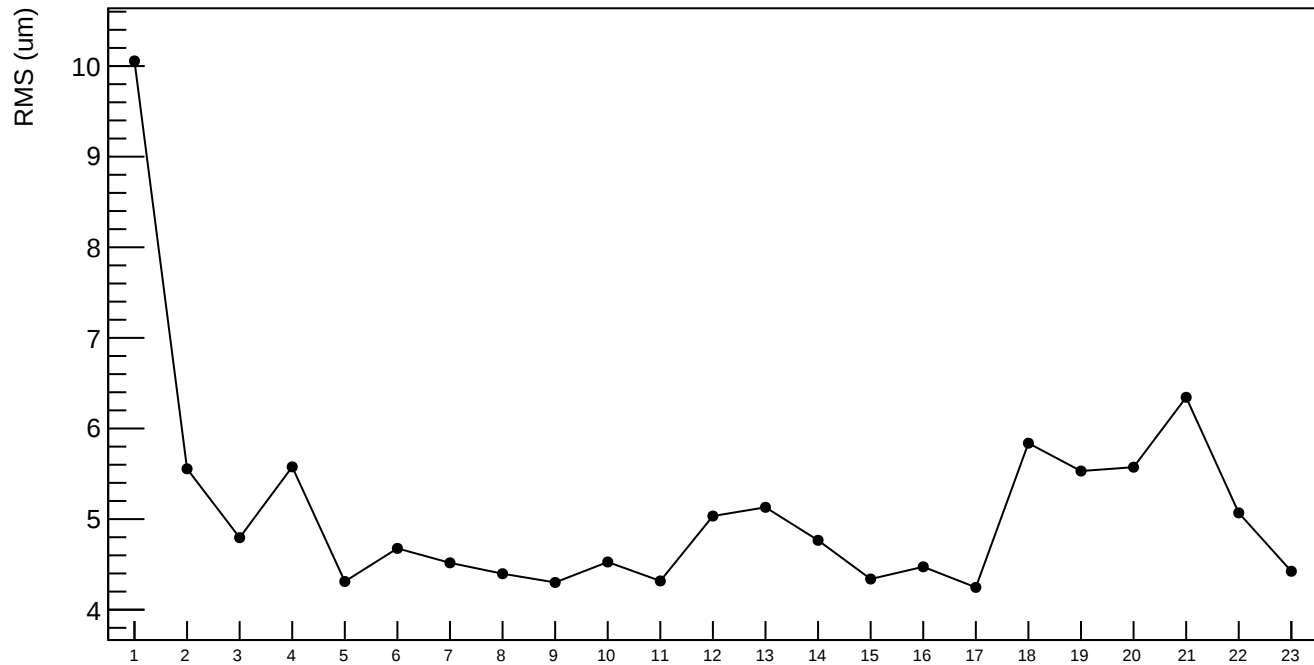
diff_bpm12X (nm)



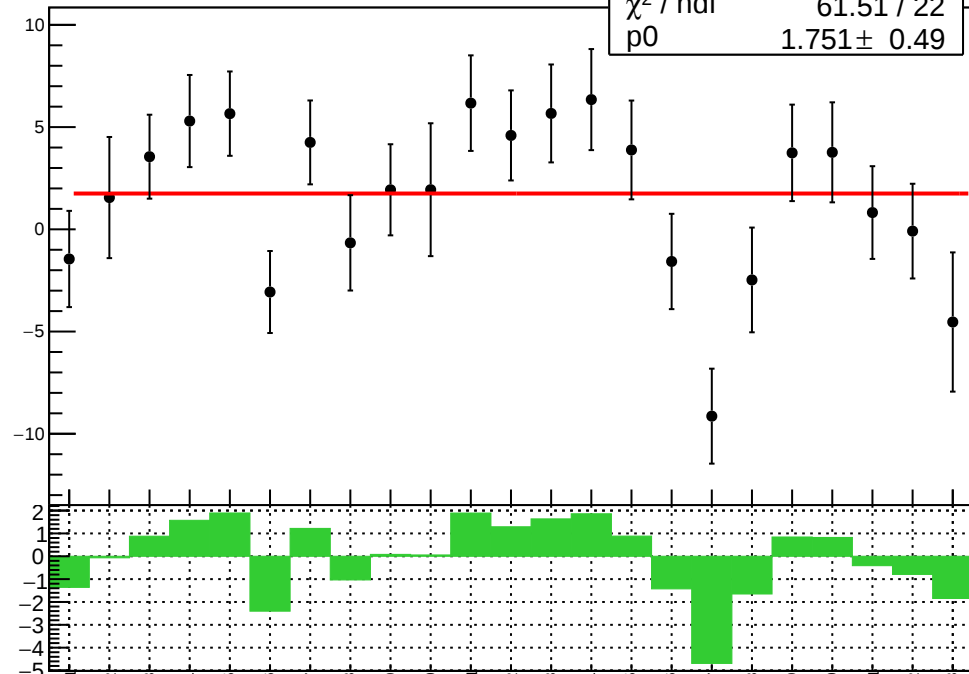
1D pull distribution



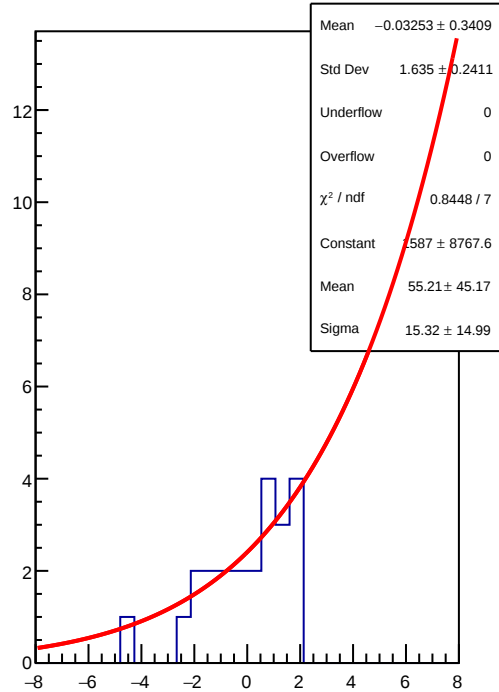
diff_bpm12X RMS (μm)



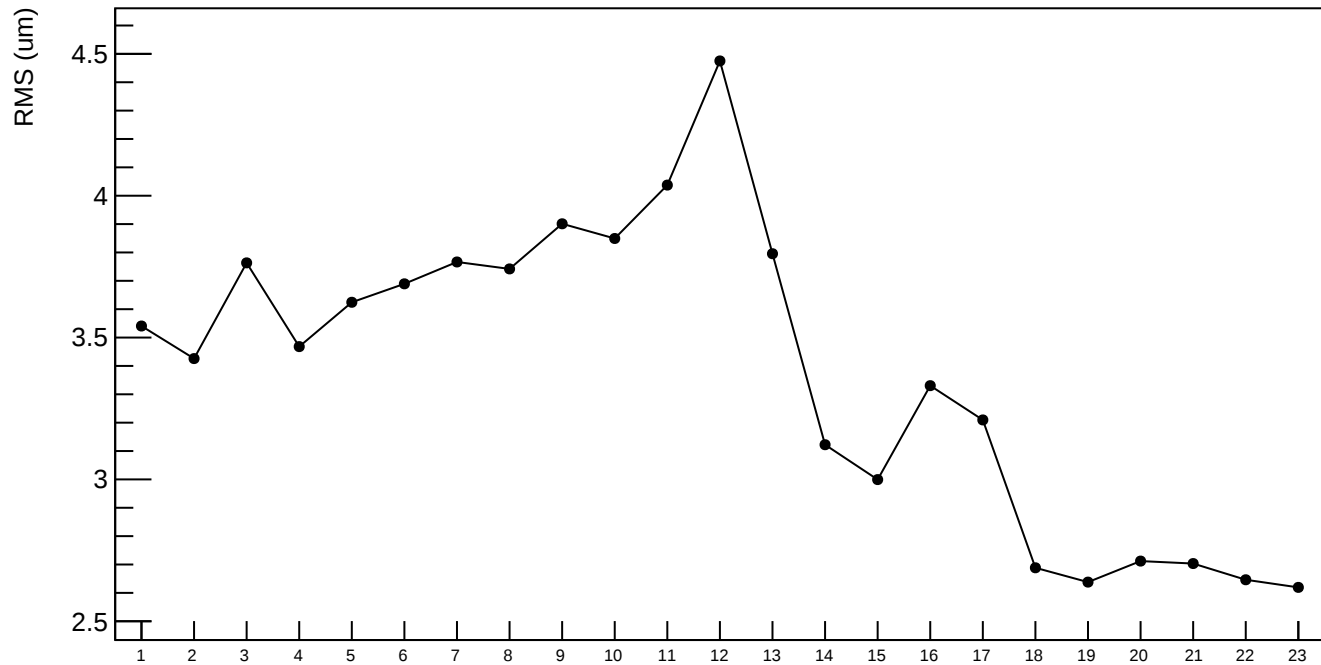
diff_bpm12Y (nm)

 χ^2 / nfd
p061.51 / 22
 1.751 ± 0.49 

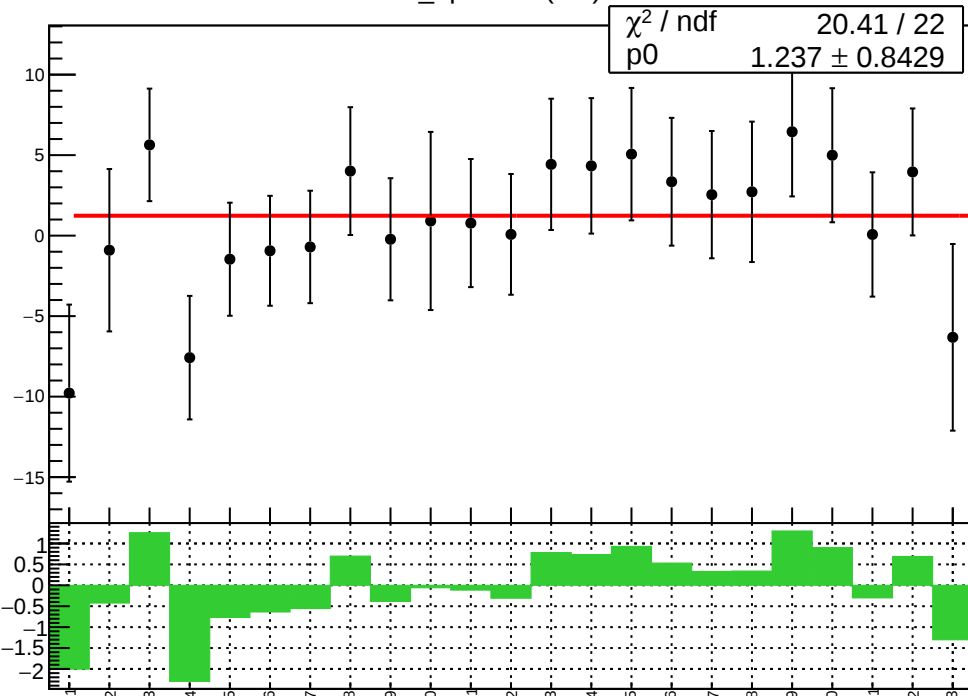
1D pull distribution



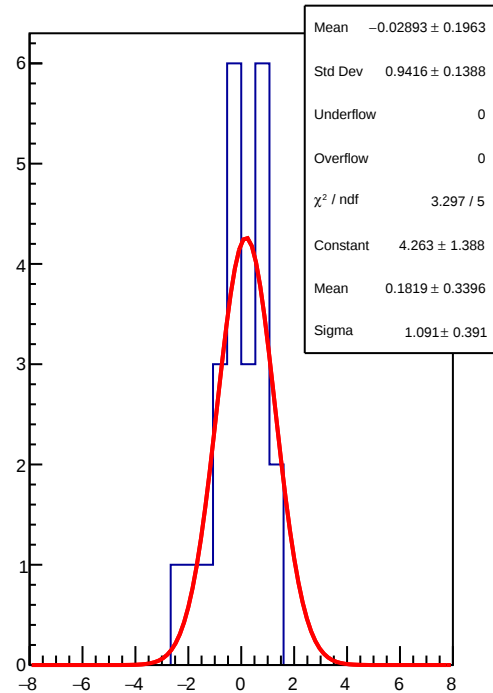
diff_bpm12Y RMS (μm)



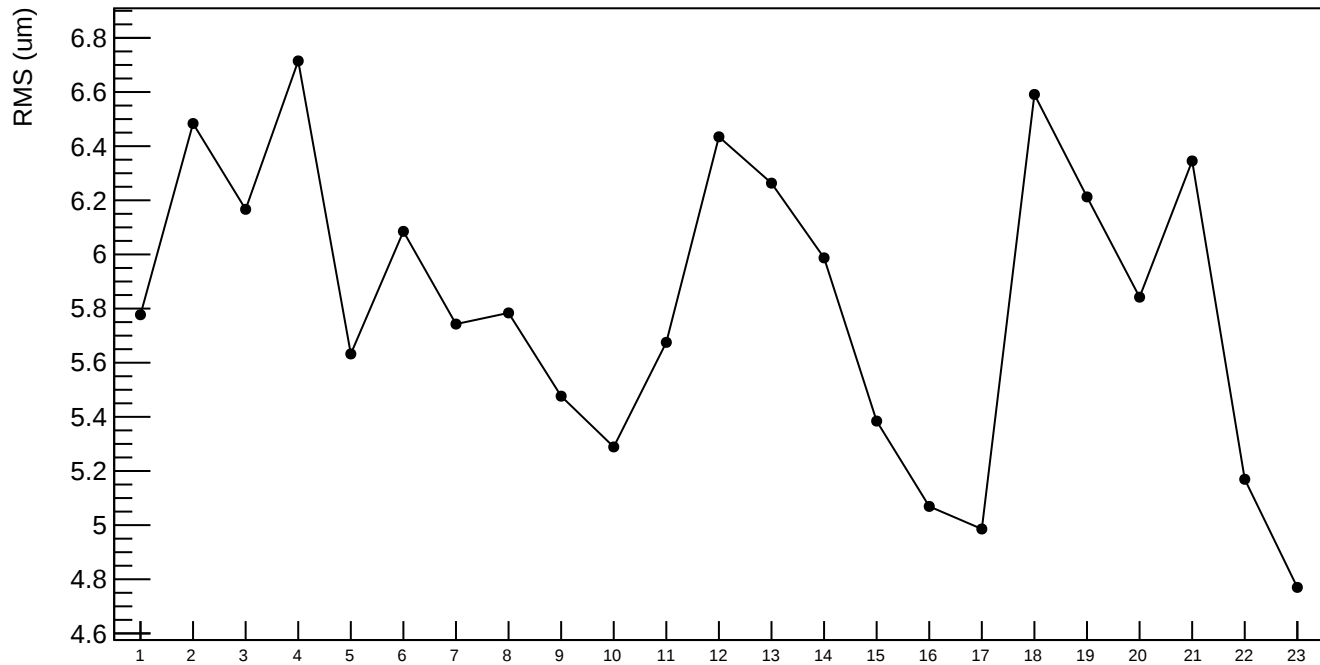
diff_bpm11X (nm)



1D pull distribution



diff_bpm11X RMS (μm)

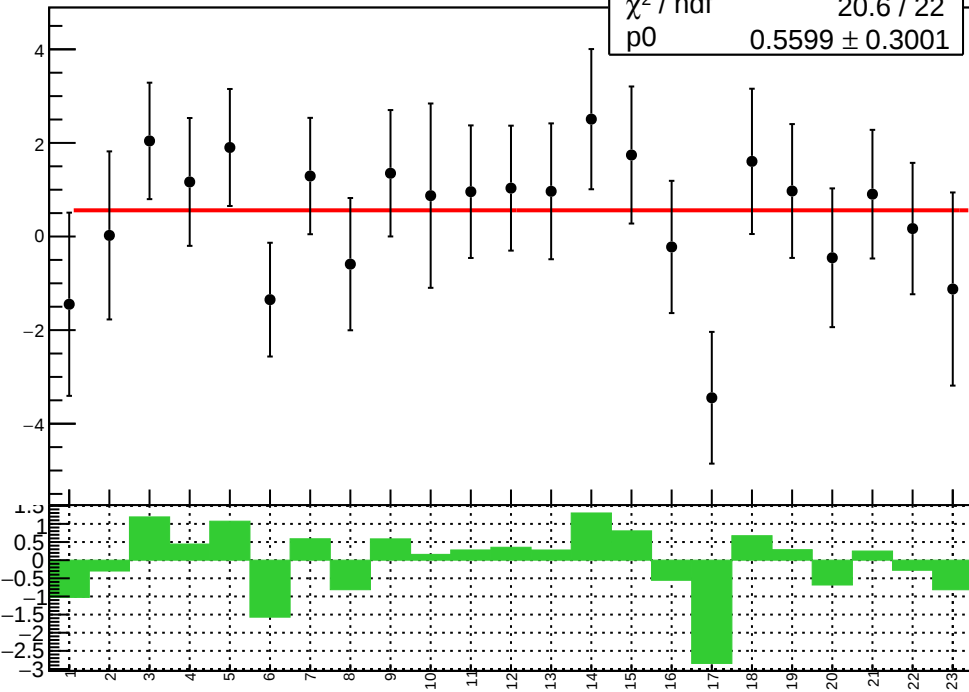


diff_bpm11Y (nm)

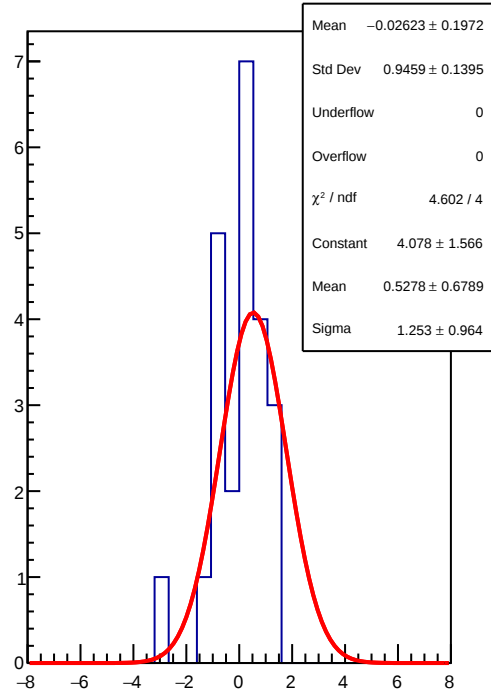
 χ^2 / ndf

20.6 / 22

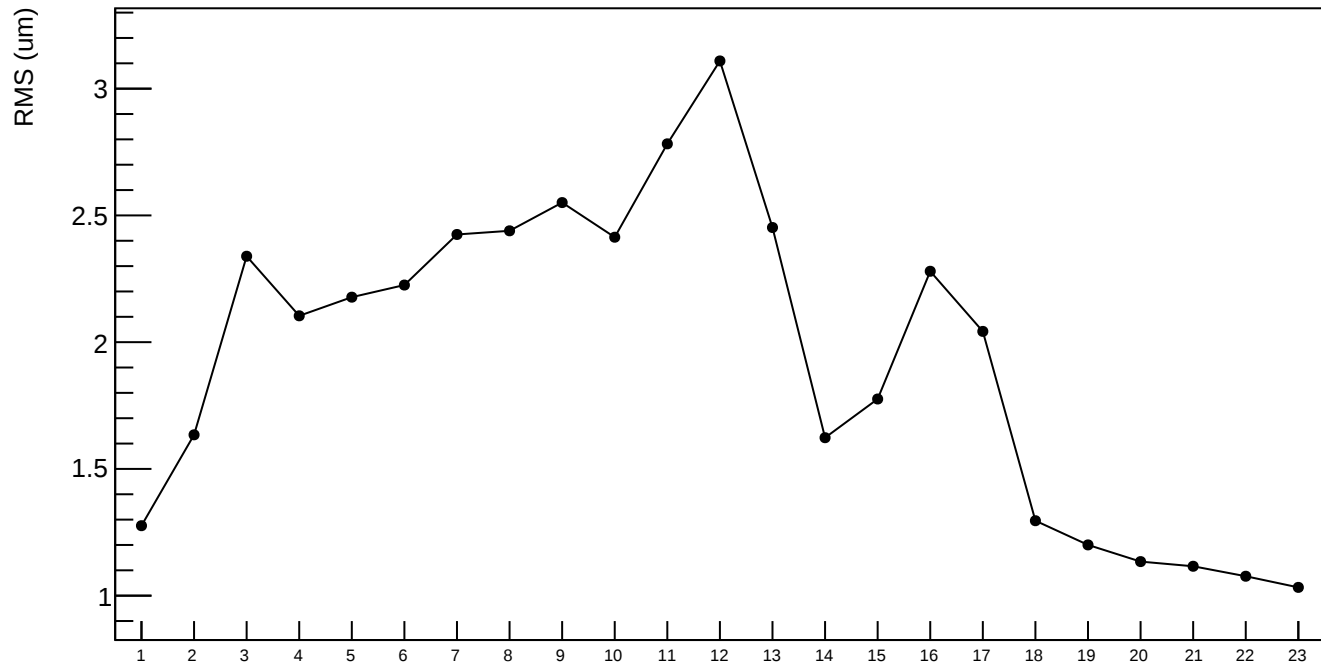
p0

 0.5599 ± 0.3001 

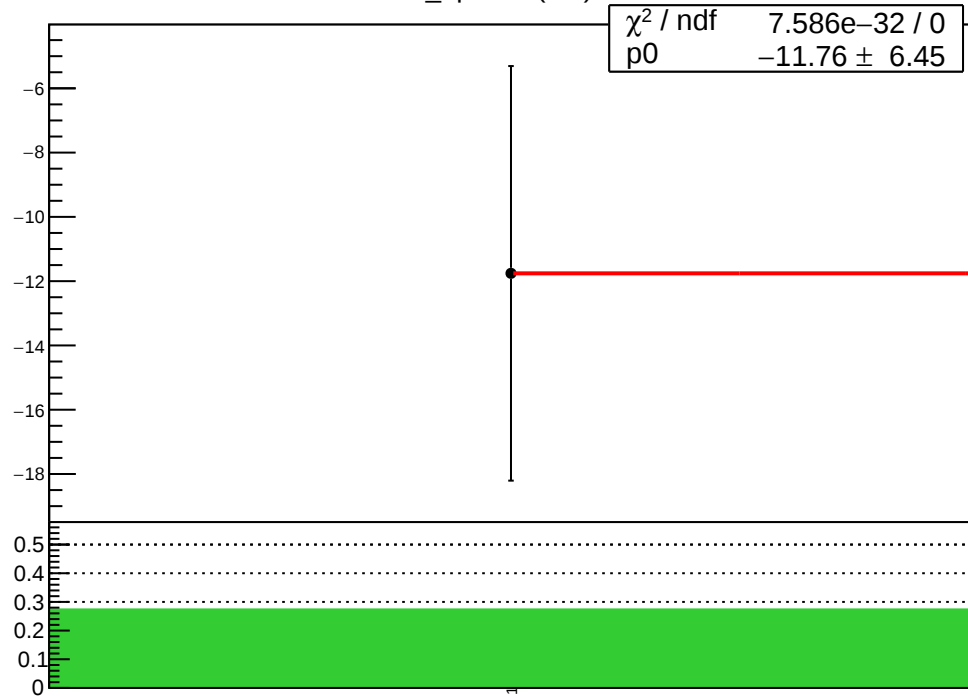
1D pull distribution



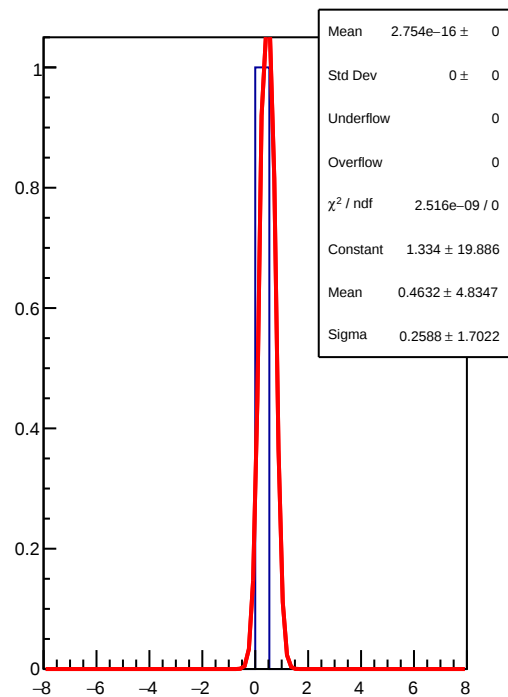
diff_bpm11Y RMS (μm)



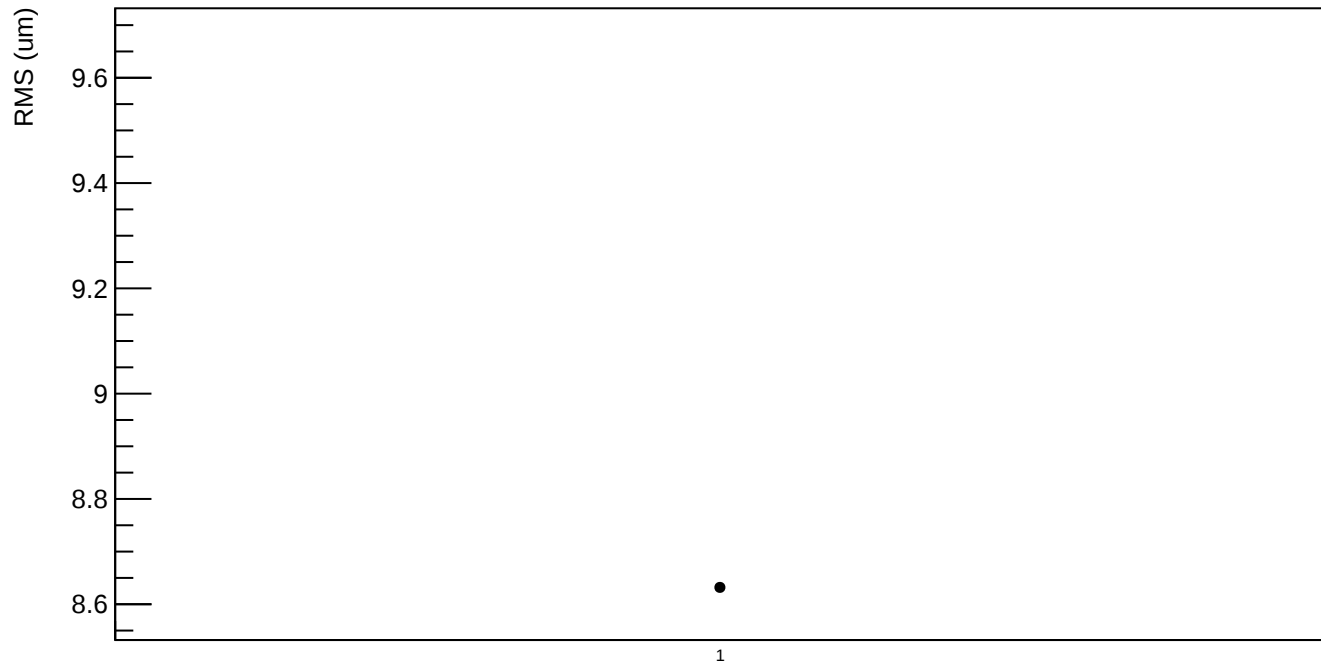
diff_bpm8X (nm)



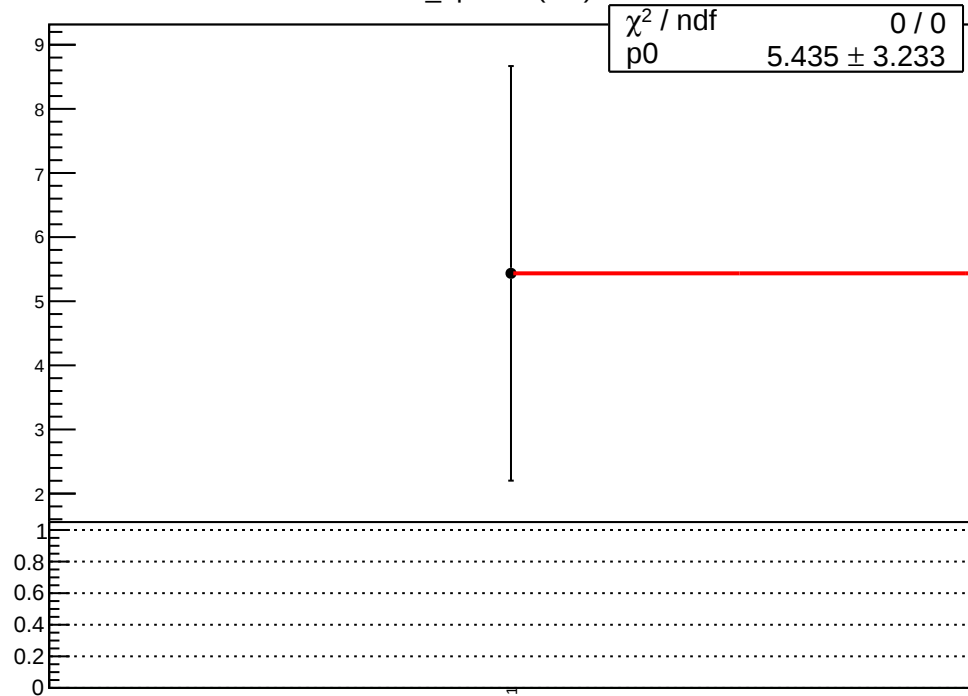
1D pull distribution



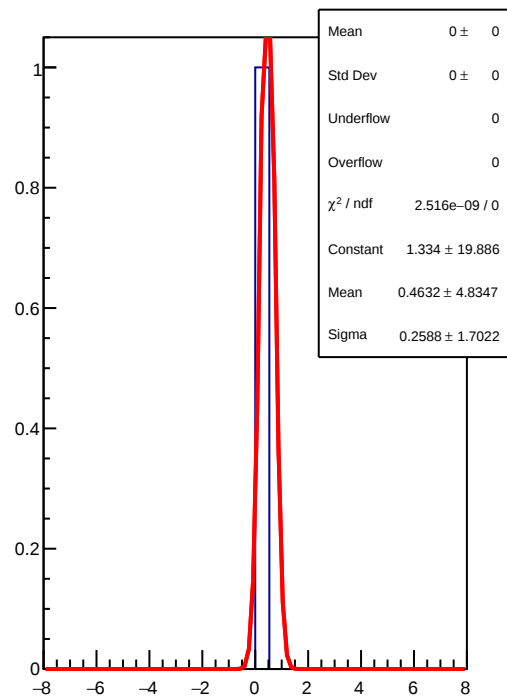
diff_bpm8X RMS (um)



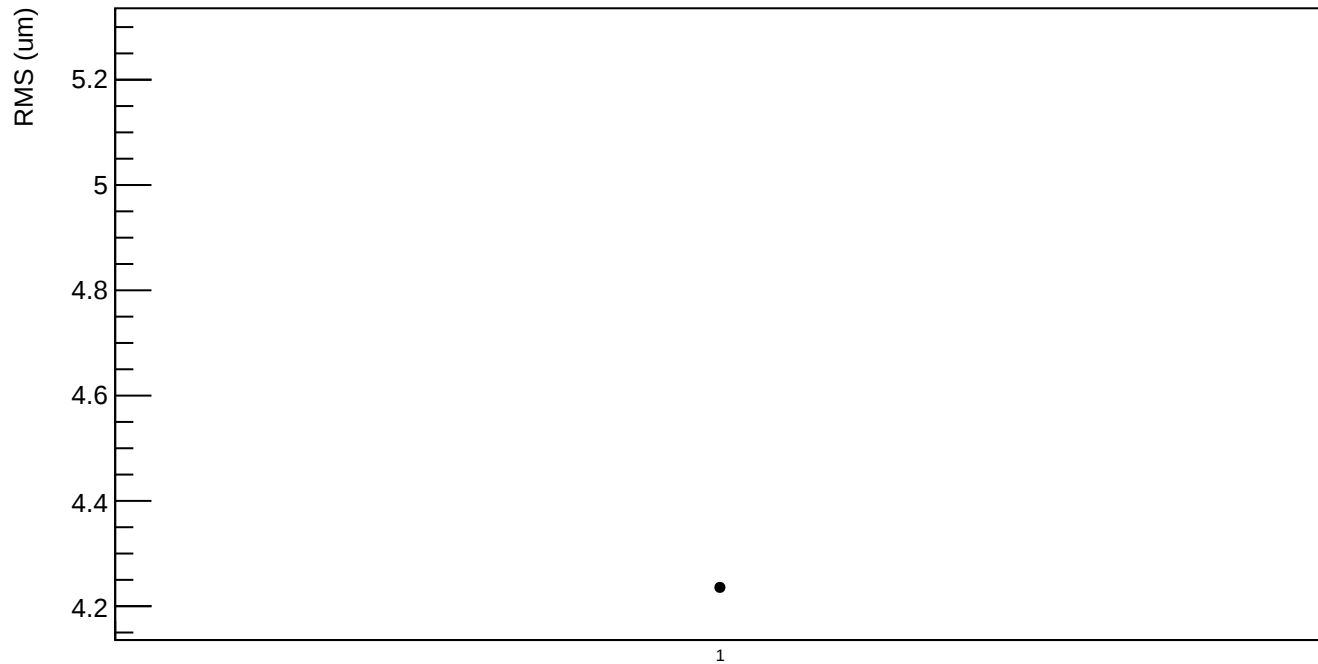
diff_bpm8Y (nm)



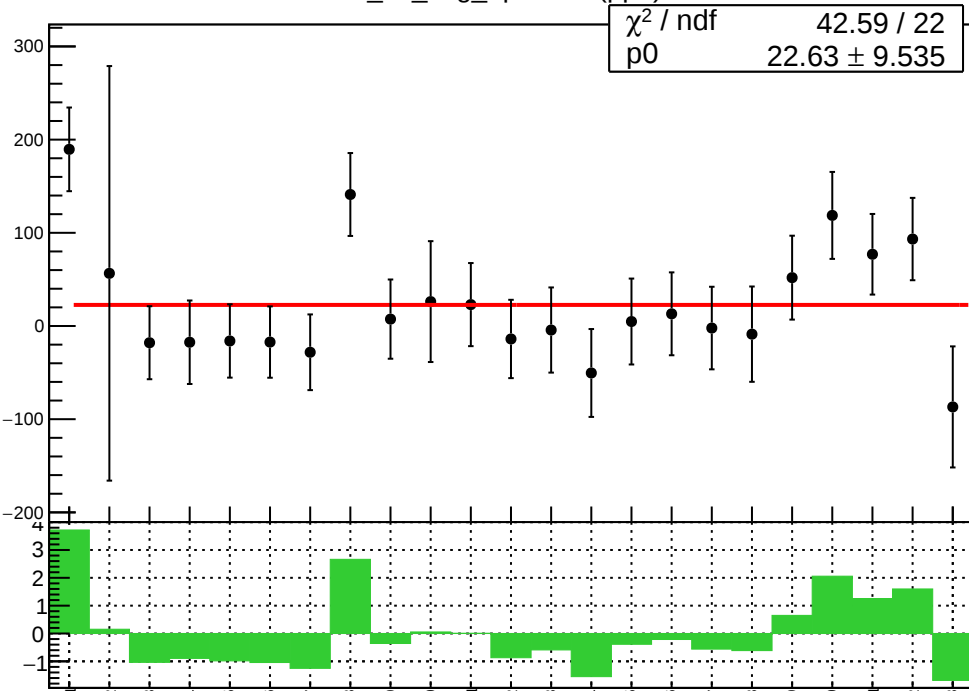
1D pull distribution



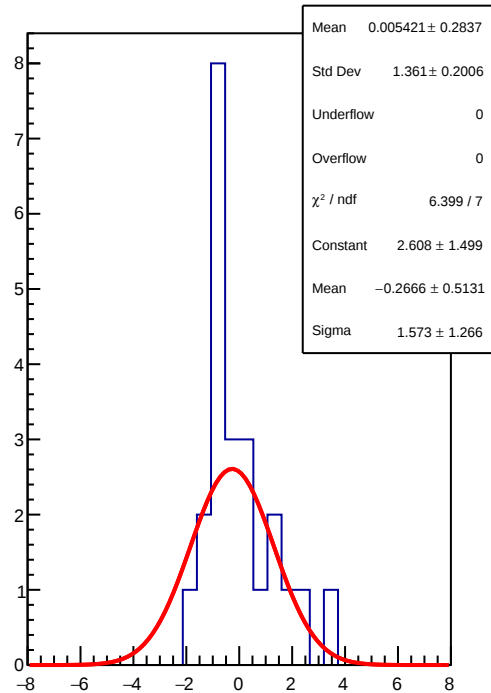
diff_bpm8Y RMS (um)



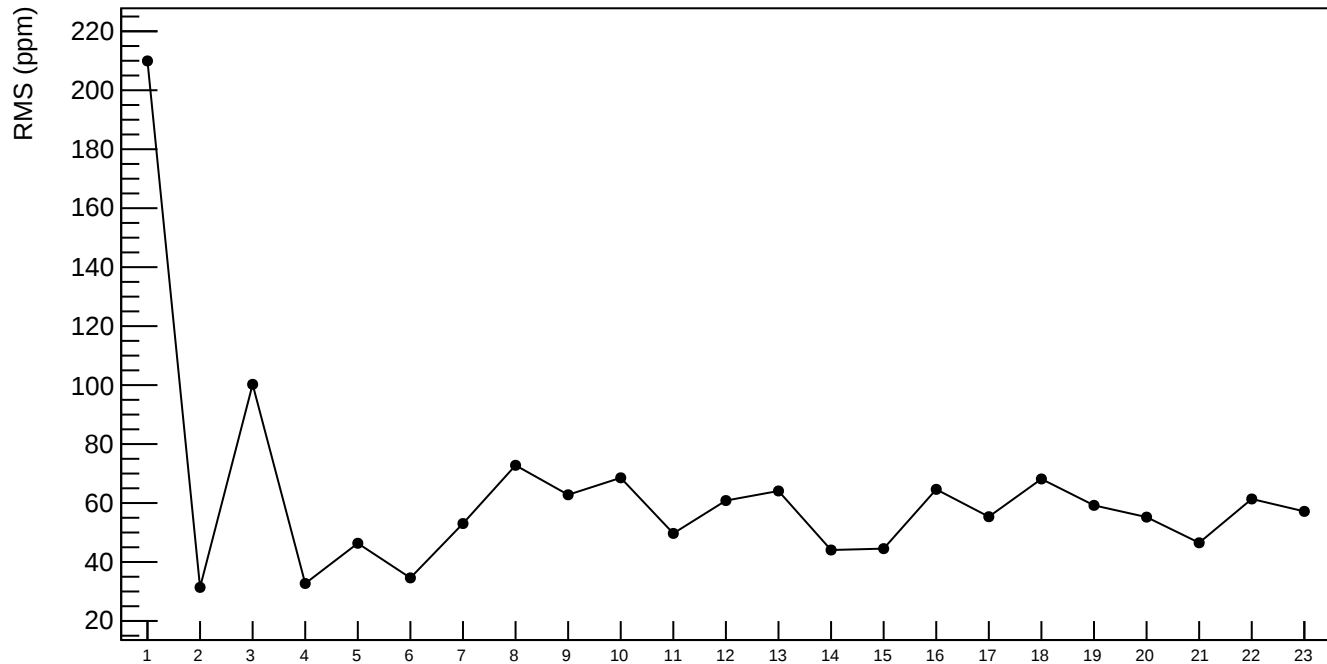
corr_us_avg_bpm4eX (ppb)



1D pull distribution



corr_us_avg_bpm4eX RMS (ppm)

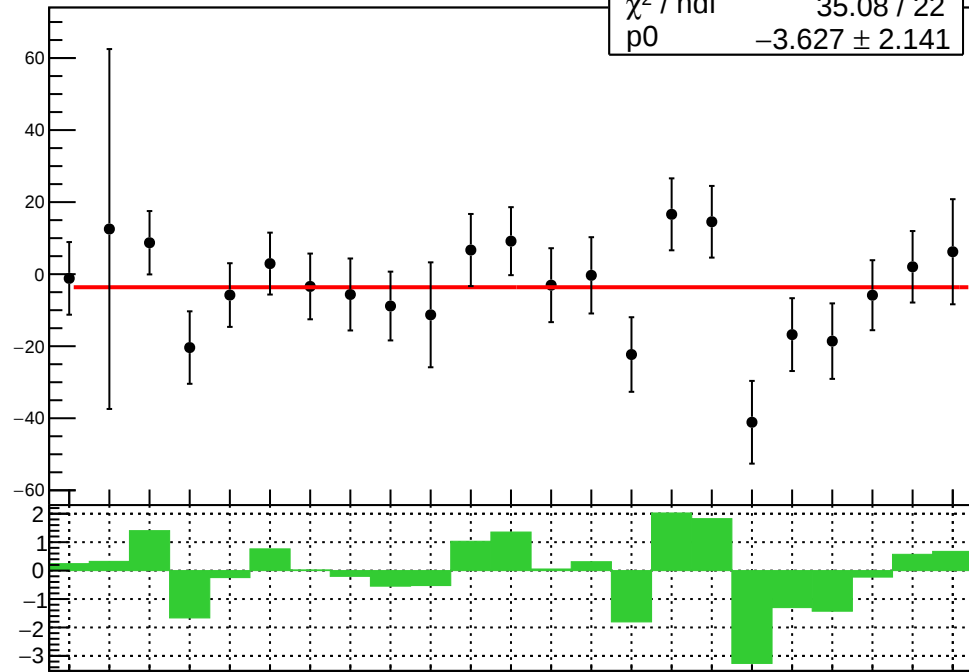


corr_us_avg_bpm4eY (ppb)

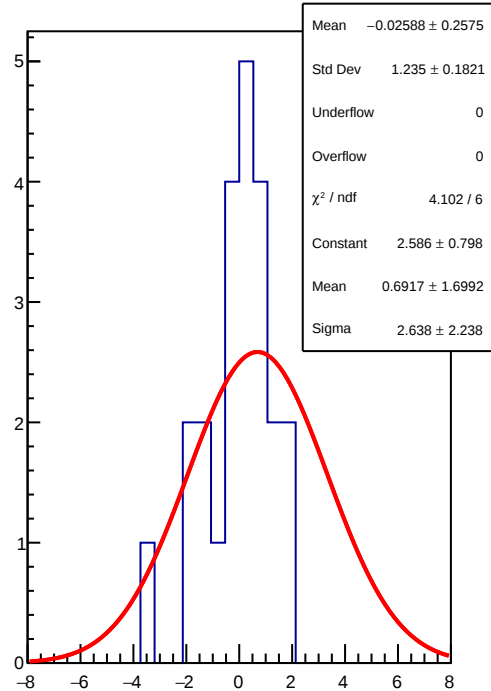
 χ^2 / ndf

35.08 / 22

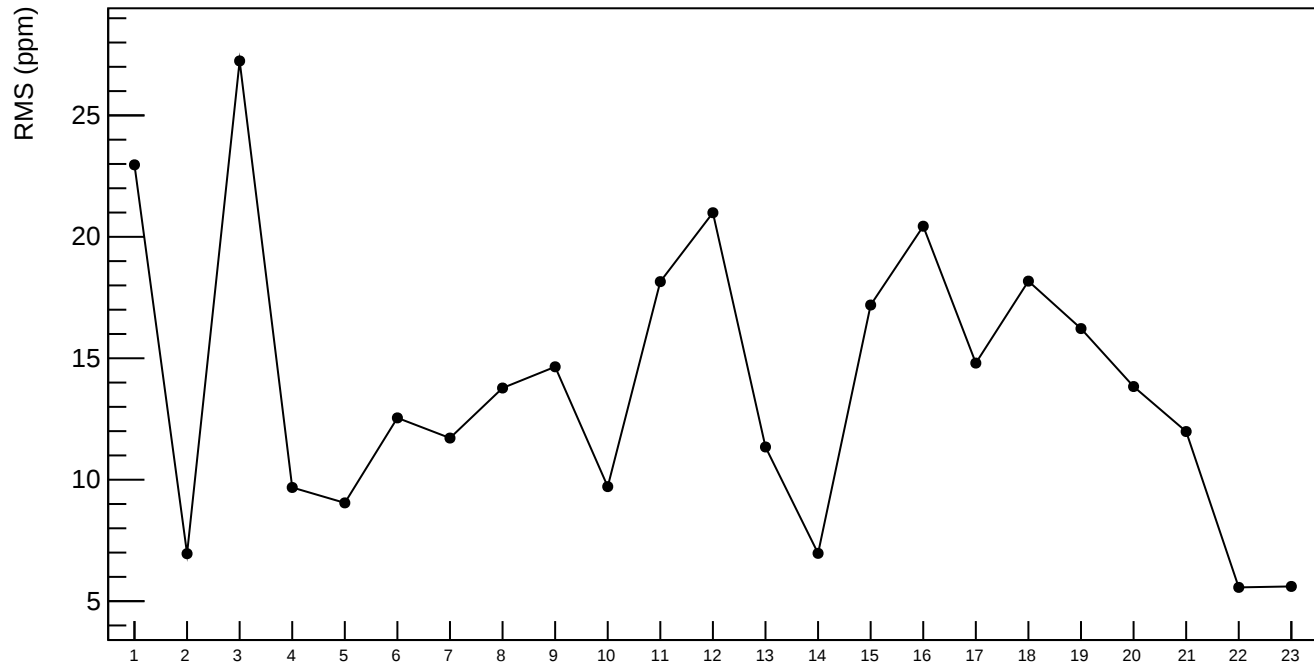
p0

 -3.627 ± 2.141 

1D pull distribution

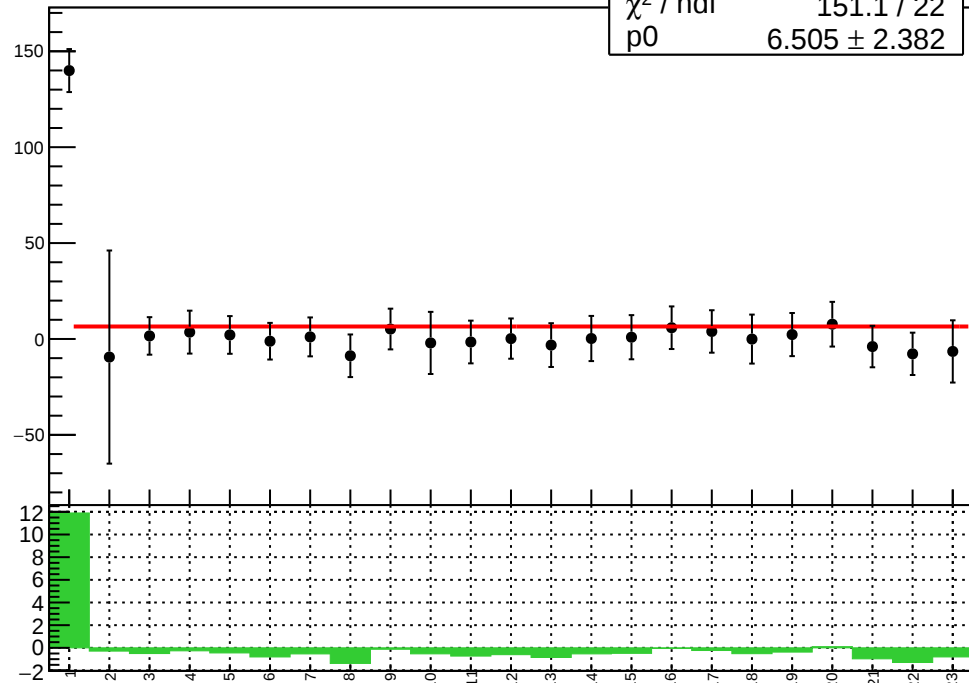


corr_us_avg_bpm4eY RMS (ppm)

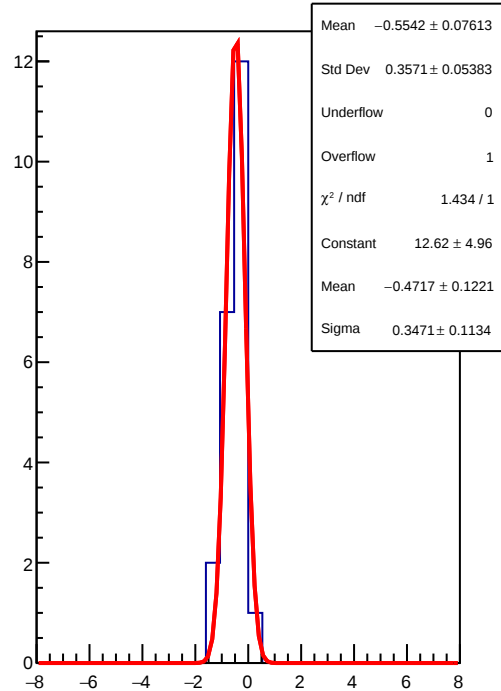


corr_us_avg_bpm4aX (ppb)

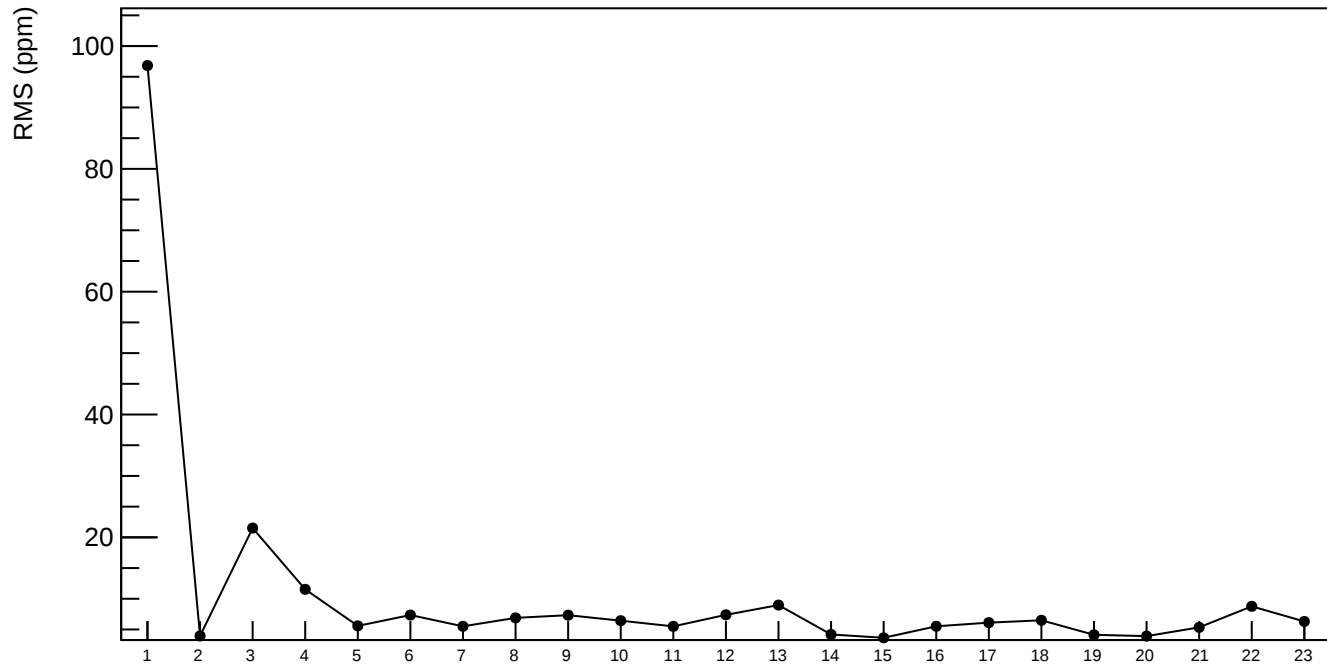
χ^2 / ndf 151.1 / 22
p0 6.505 ± 2.382



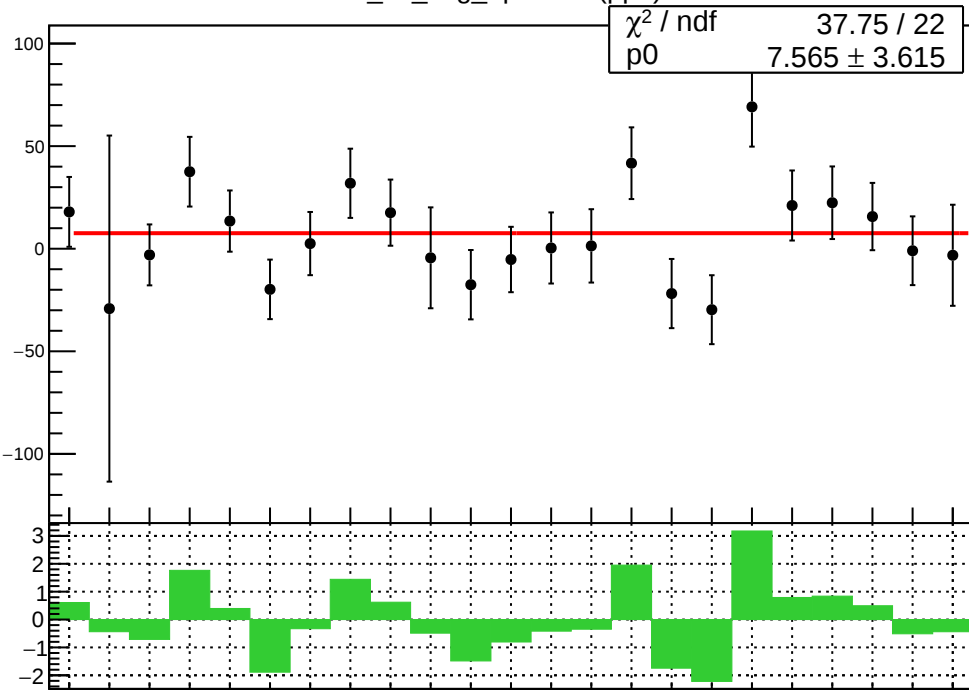
1D pull distribution



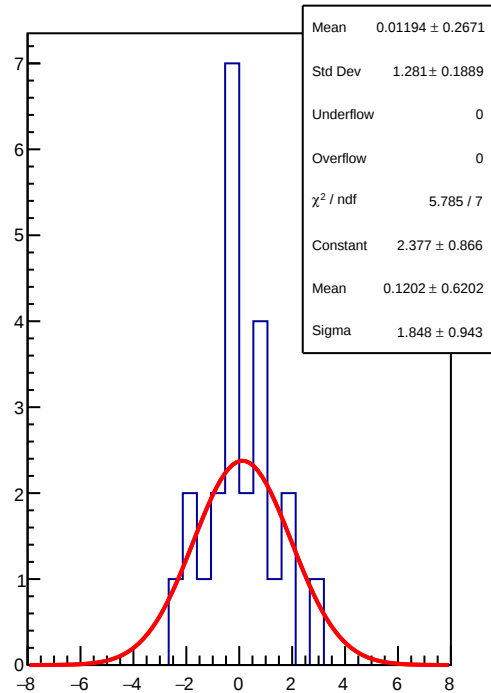
corr_us_avg_bpm4aX RMS (ppm)



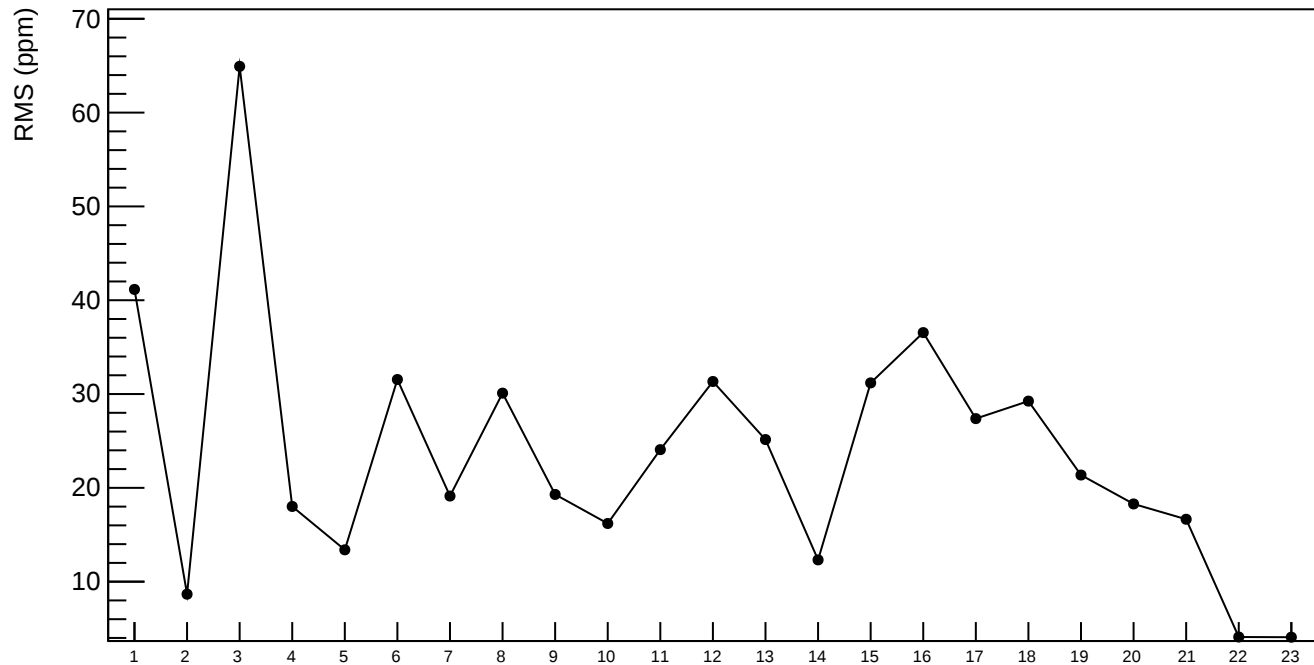
corr_us_avg_bpm4aY (ppb)



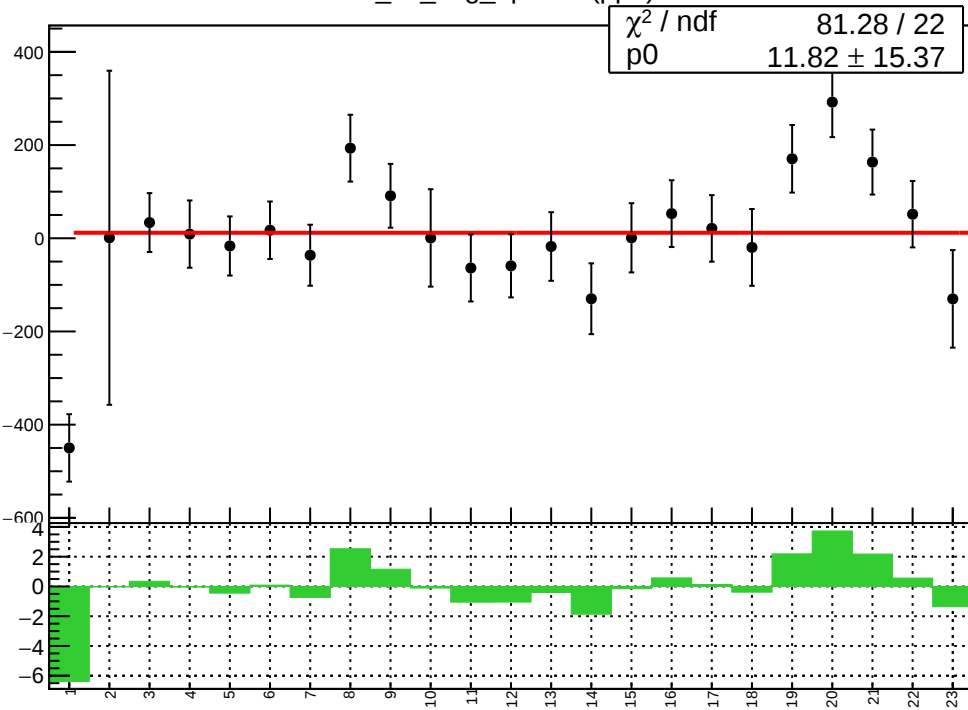
1D pull distribution



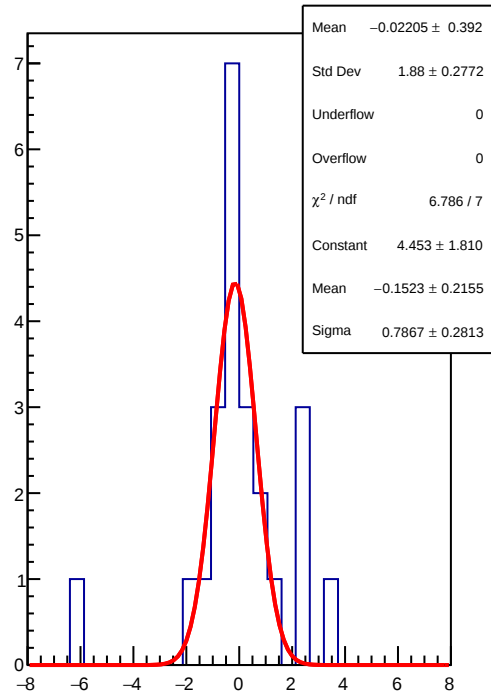
corr_us_avg_bpm4aY RMS (ppm)



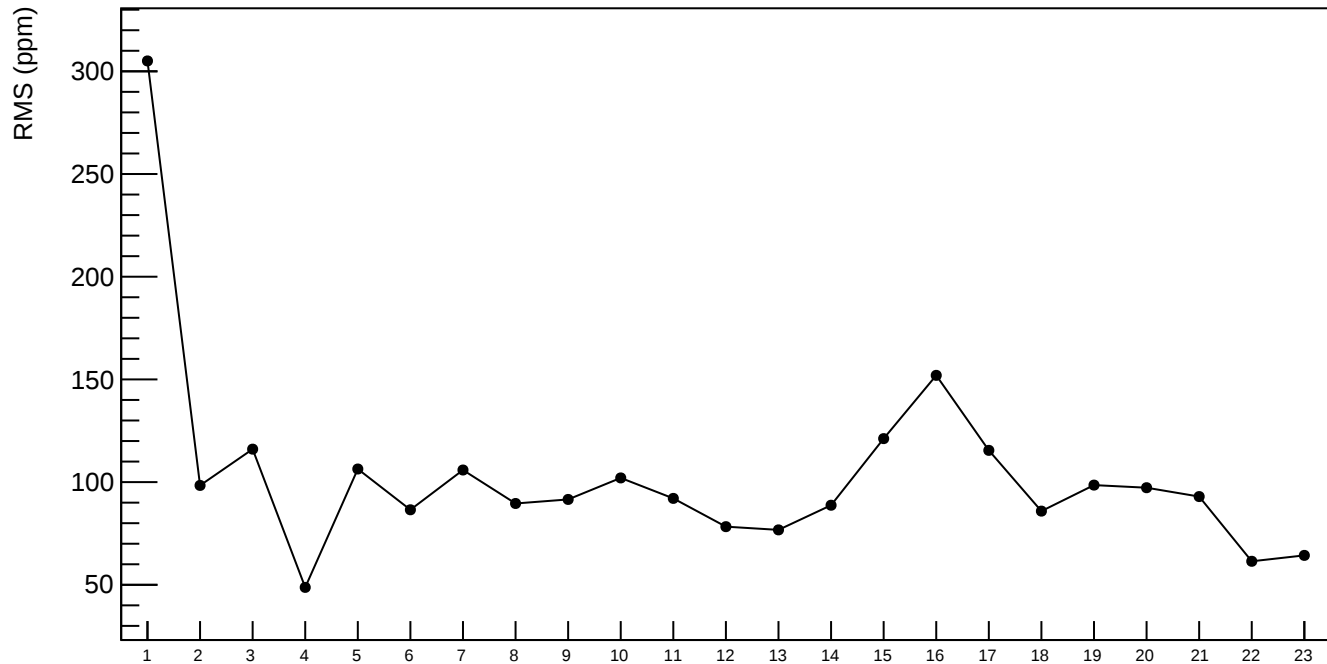
corr_us_avg_bpm1X (ppb)



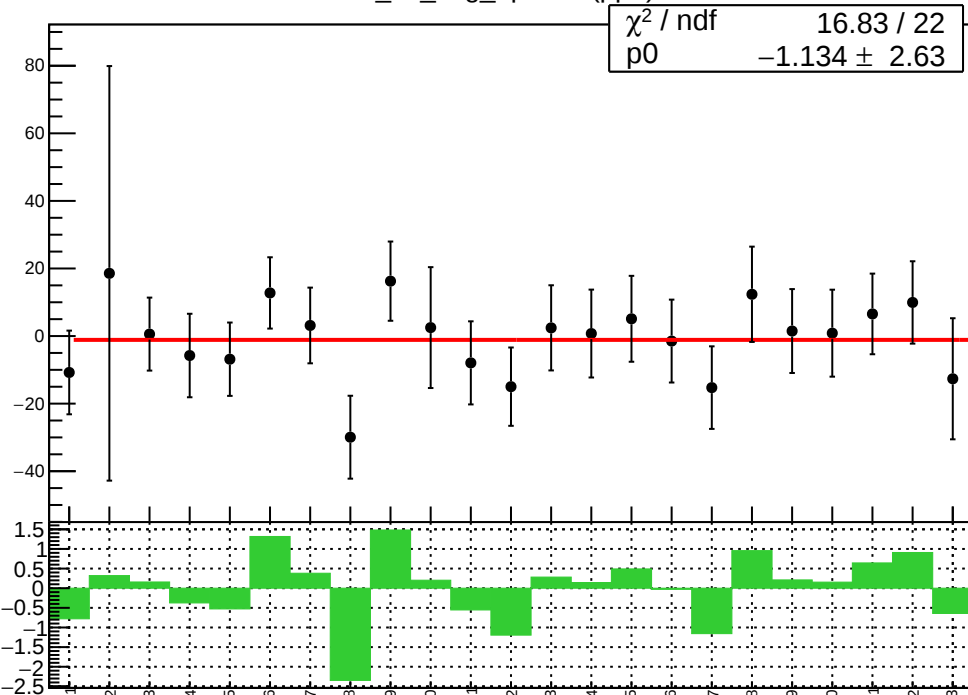
1D pull distribution



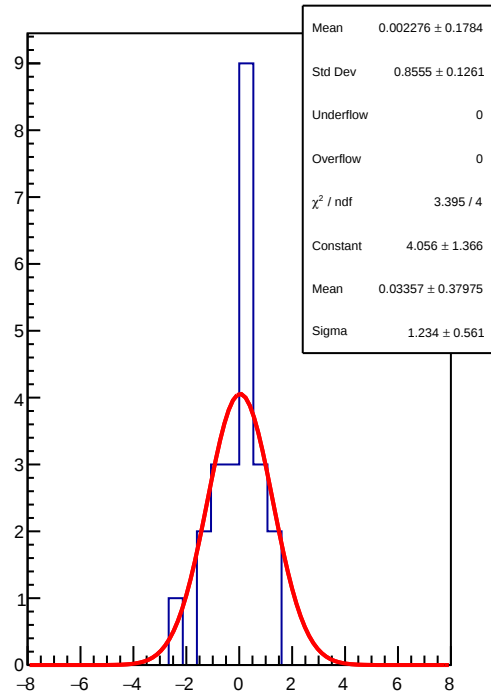
corr_us_avg_bpm1X RMS (ppm)



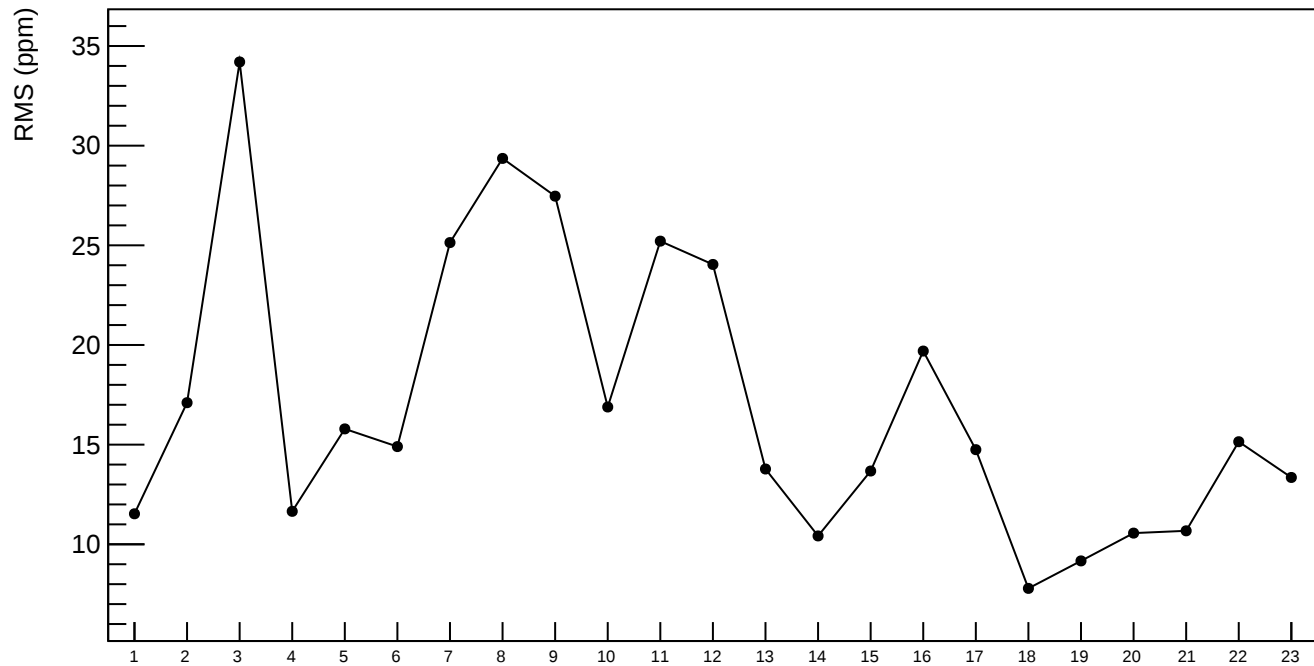
corr_us_avg_bpm1Y (ppb)



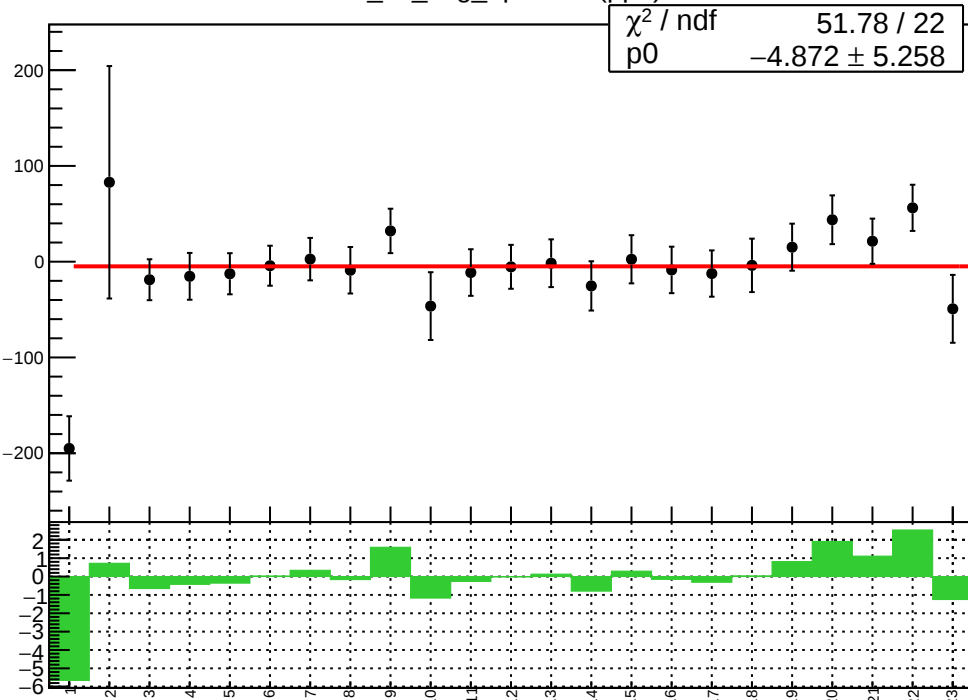
1D pull distribution



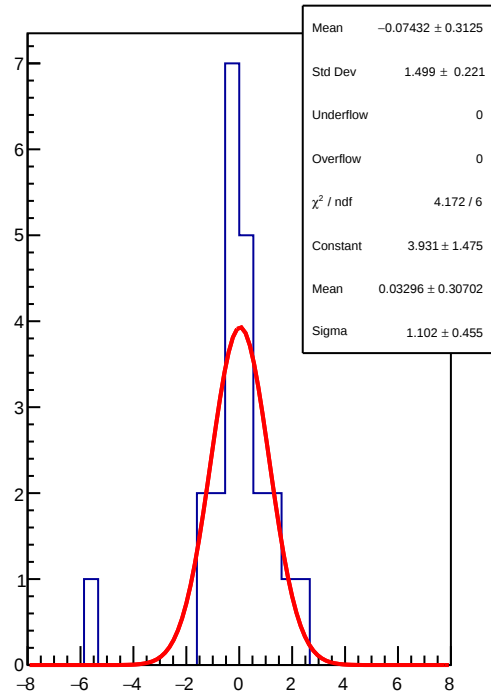
corr_us_avg_bpm1Y RMS (ppm)



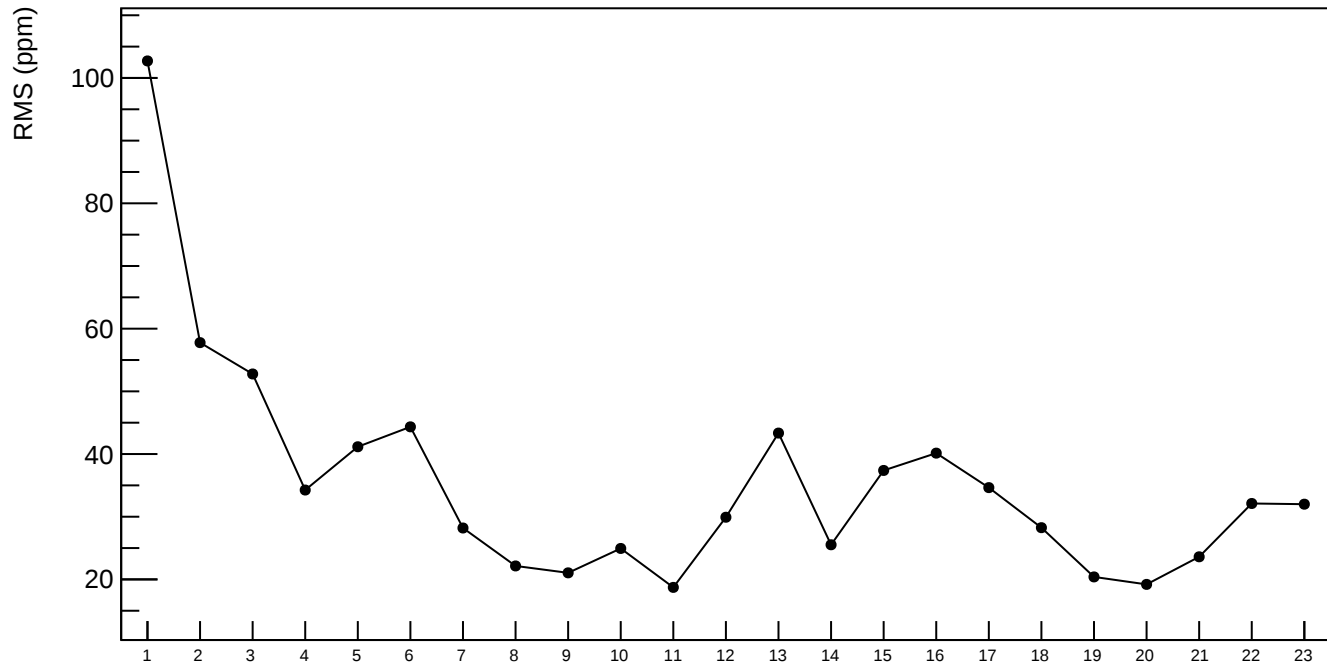
corr_us_avg_bpm16X (ppb)



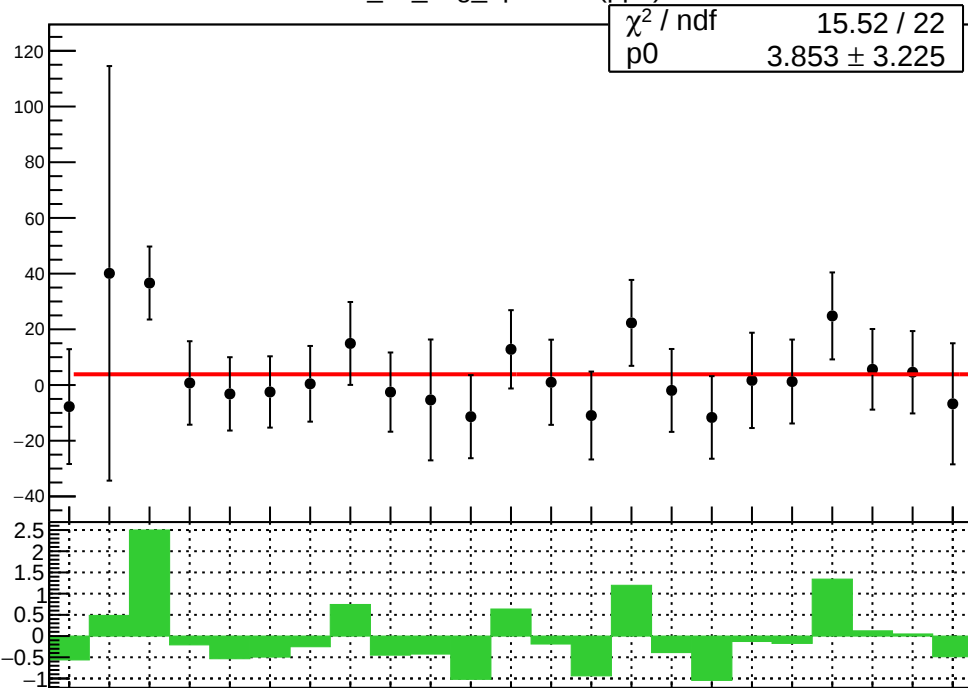
1D pull distribution



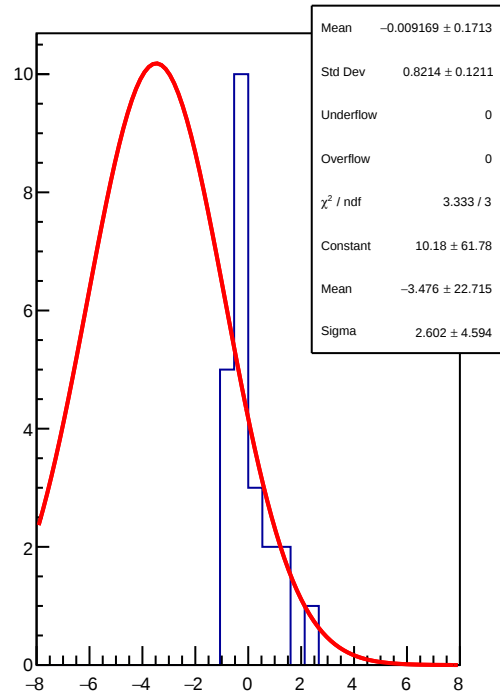
corr_us_avg_bpm16X RMS (ppm)



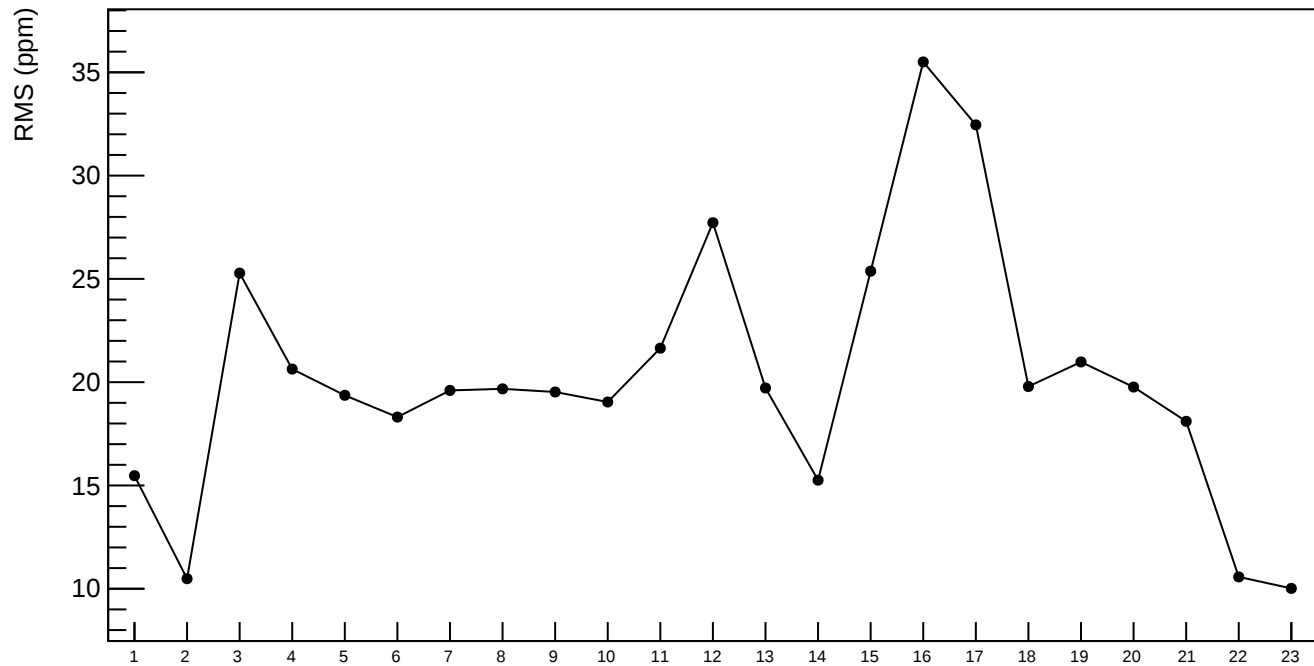
corr_us_avg_bpm16Y (ppb)



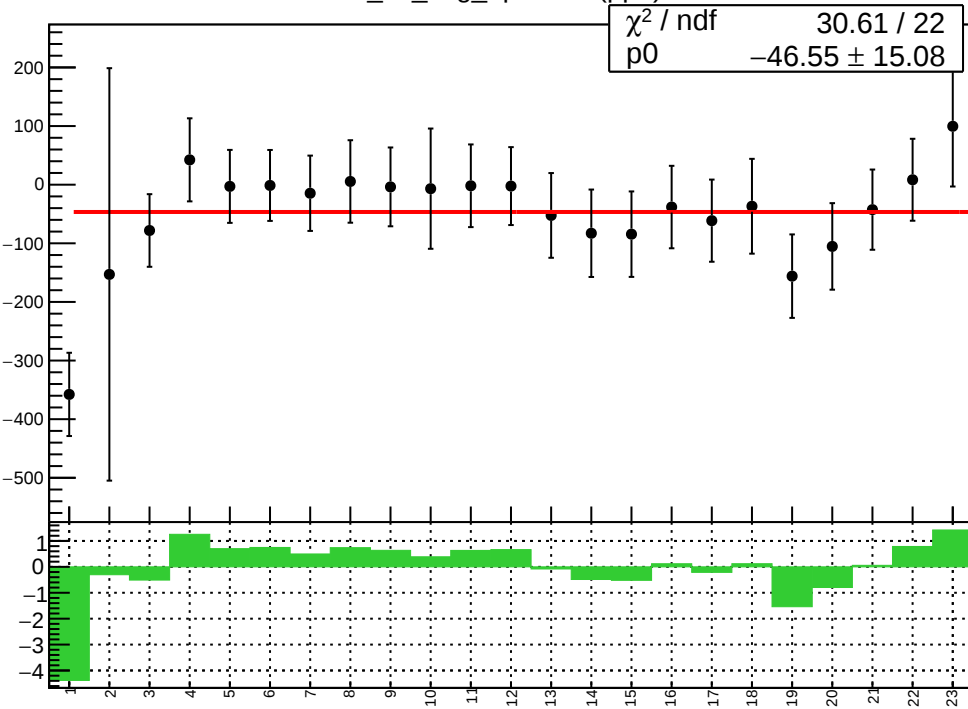
1D pull distribution



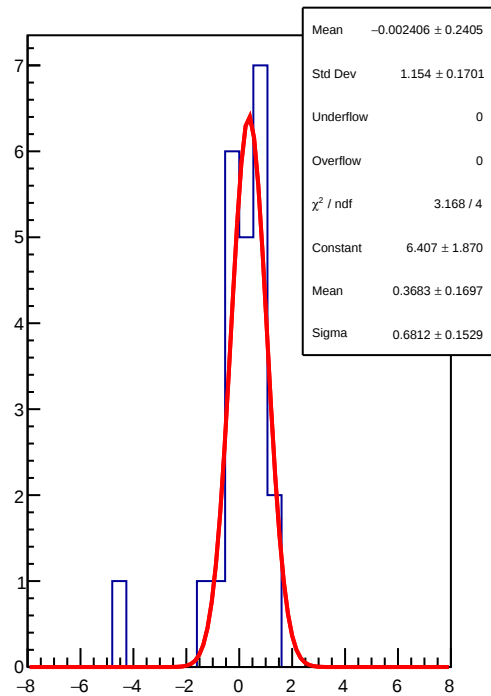
corr_us_avg_bpm16Y RMS (ppm)



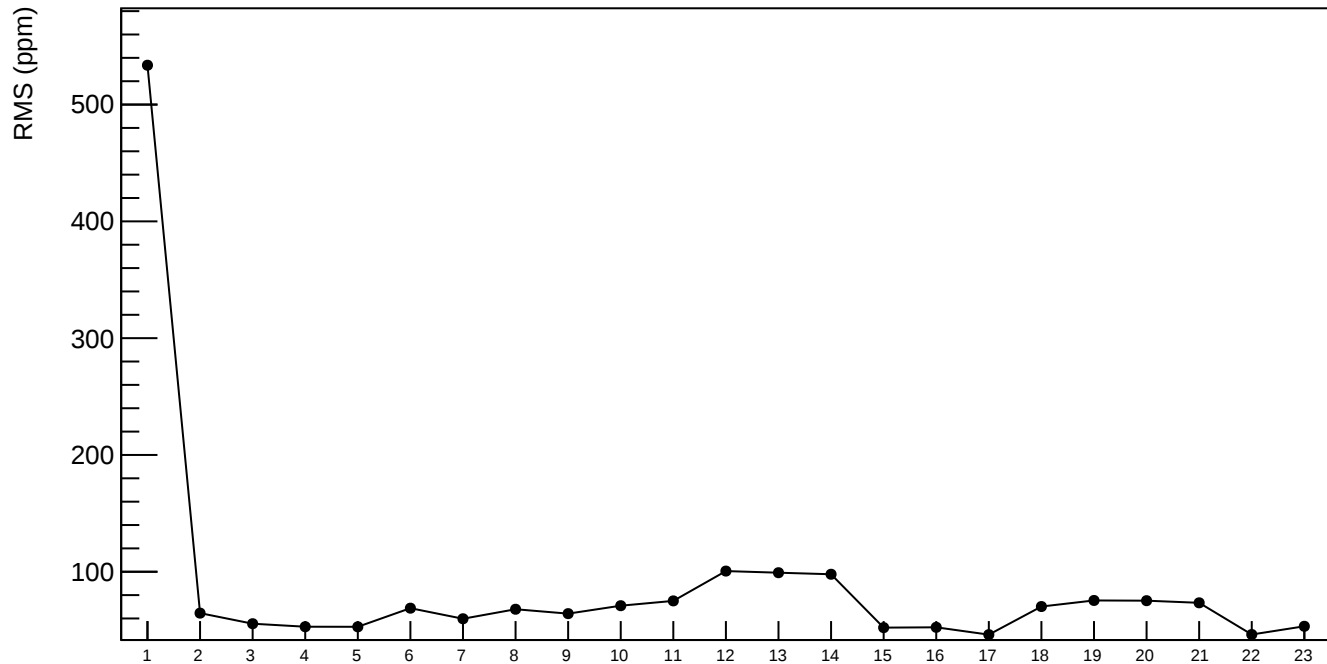
corr_us_avg_bpm12X (ppb)



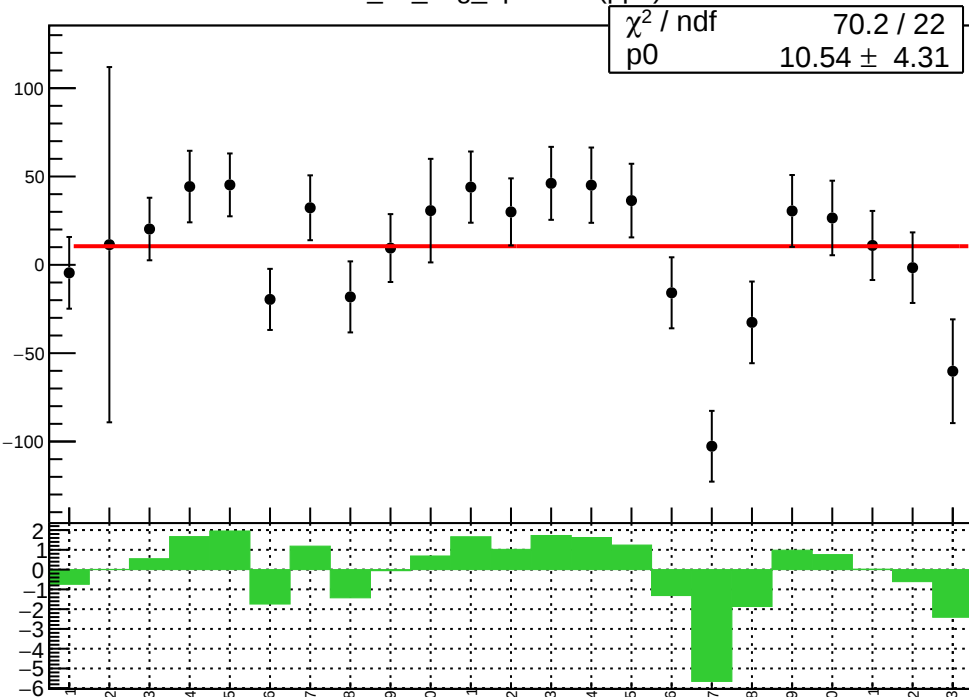
1D pull distribution



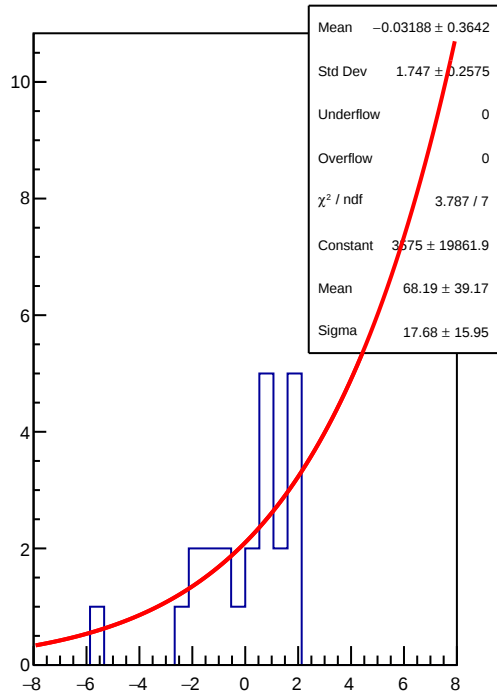
corr_us_avg_bpm12X RMS (ppm)



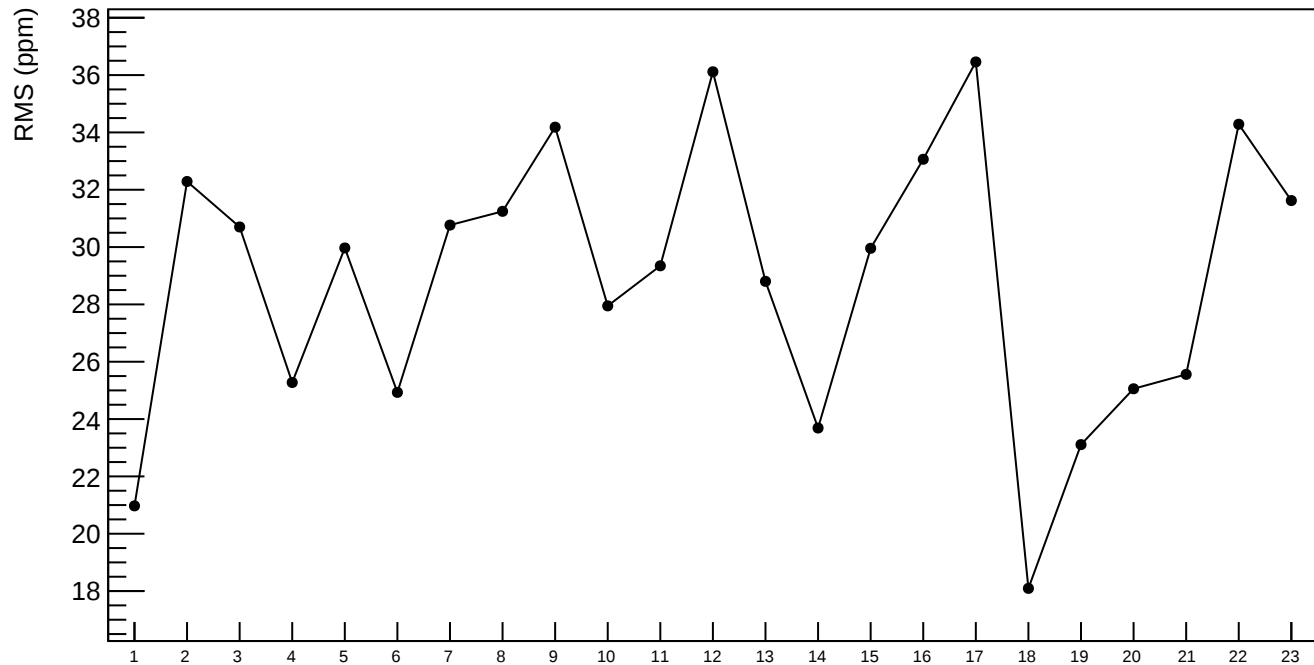
corr_us_avg_bpm12Y (ppb)



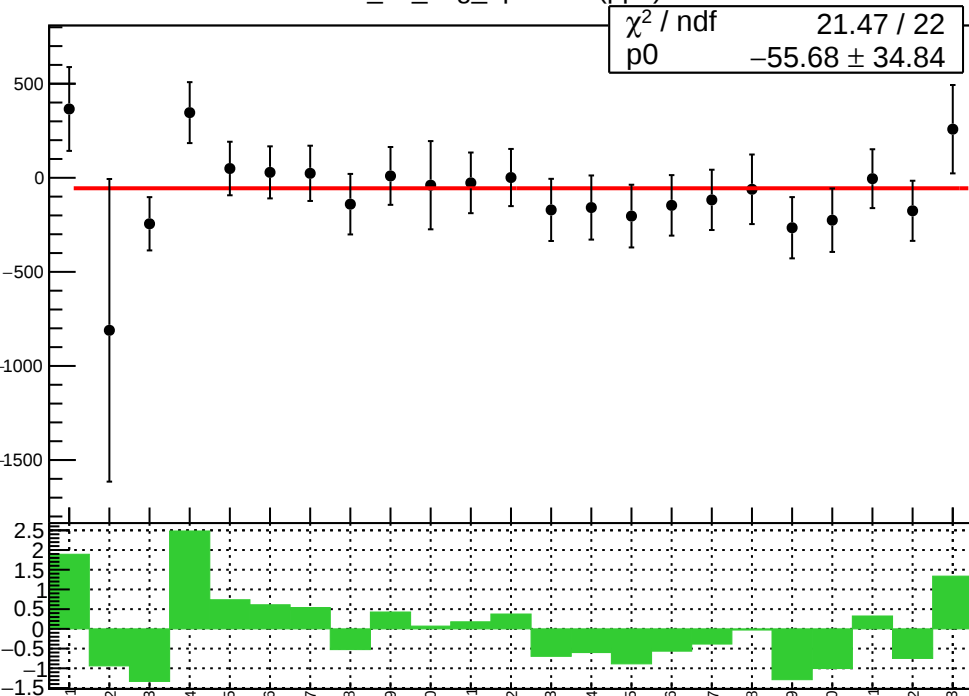
1D pull distribution



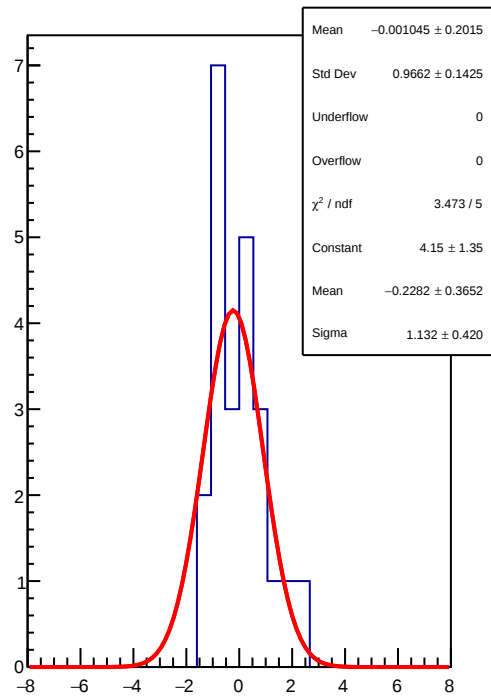
corr_us_avg_bpm12Y RMS (ppm)



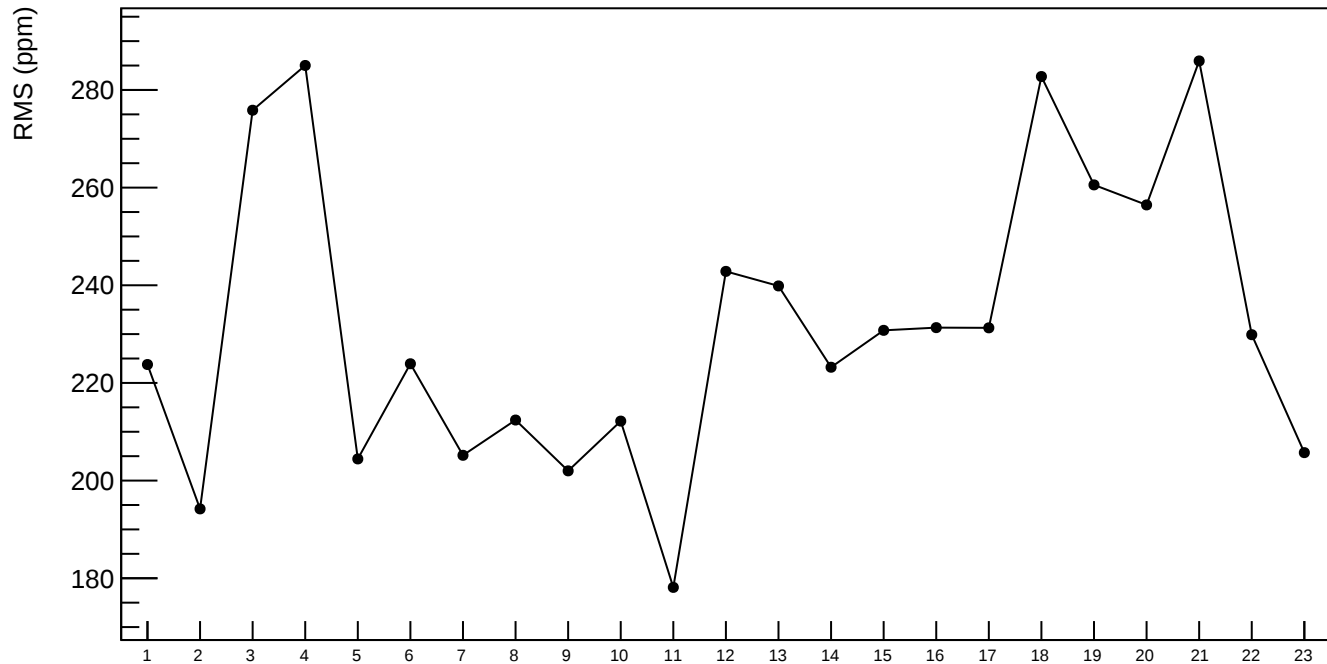
corr_us_avg_bpm11X (ppb)



1D pull distribution

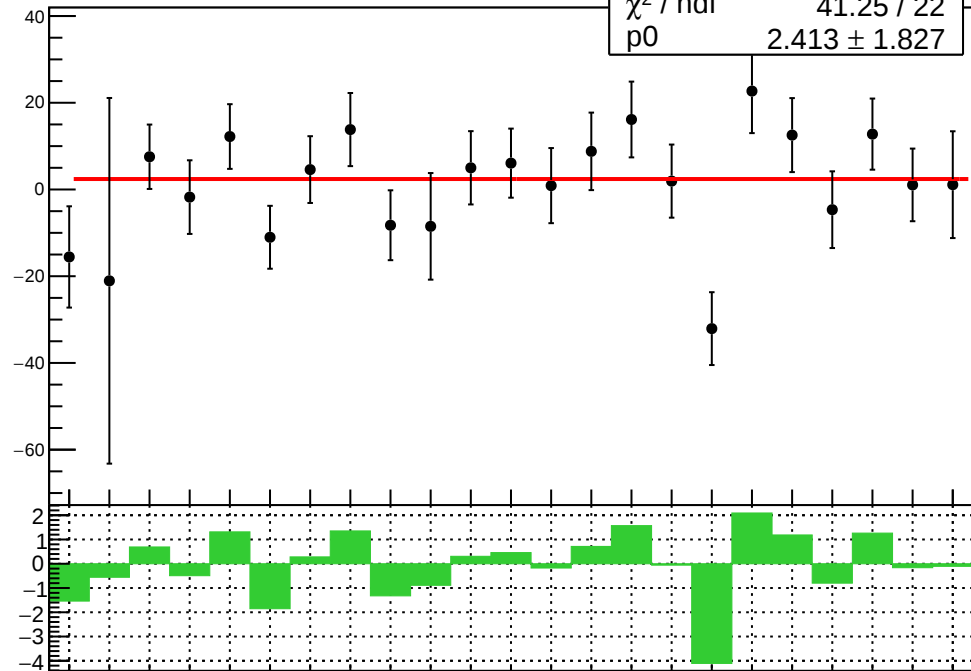


corr_us_avg_bpm11X RMS (ppm)

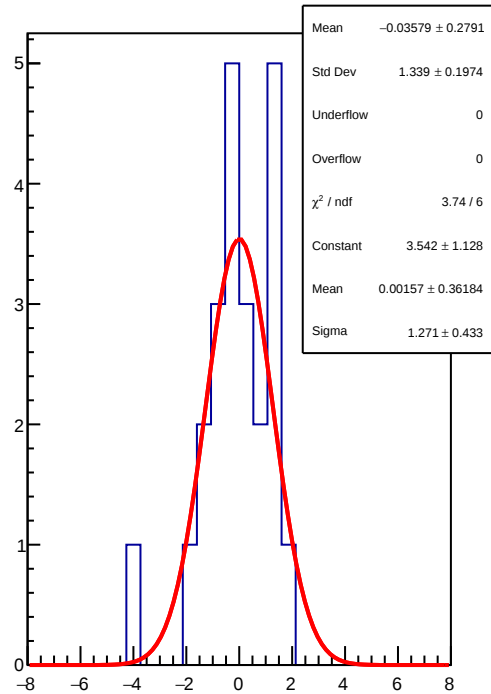


corr_us_avg_bpm11Y (ppb)

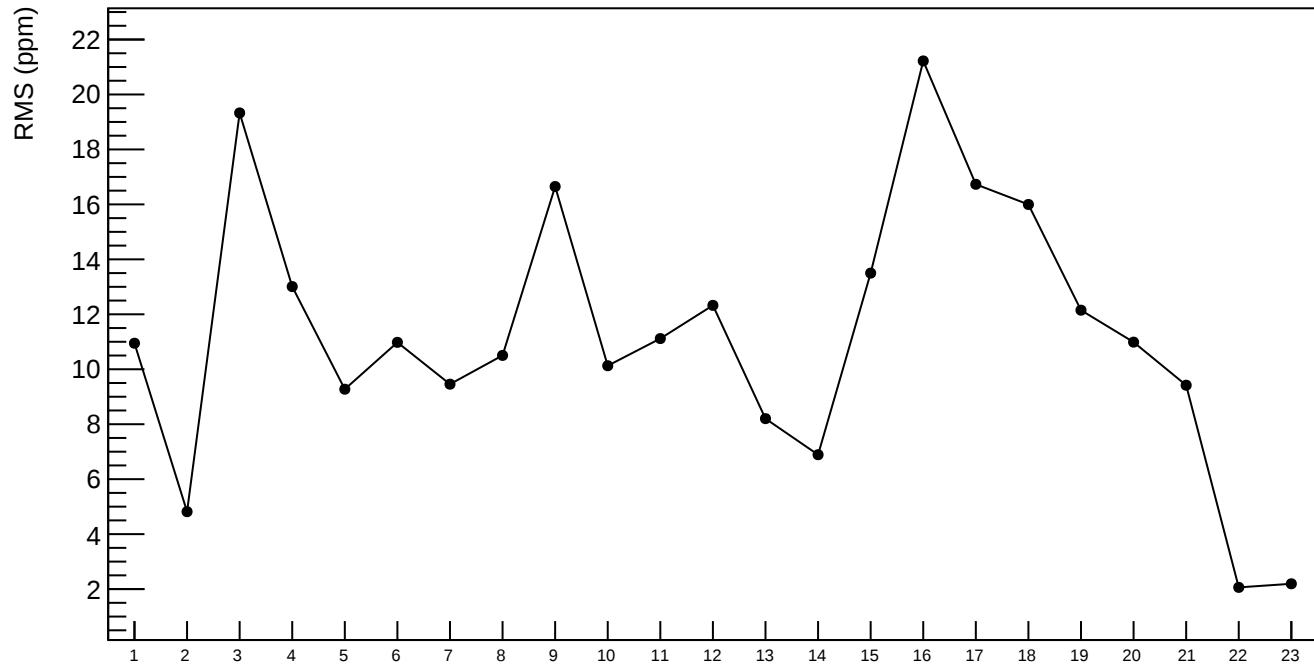
χ^2 / nfd 41.25 / 22
p0 2.413 ± 1.827



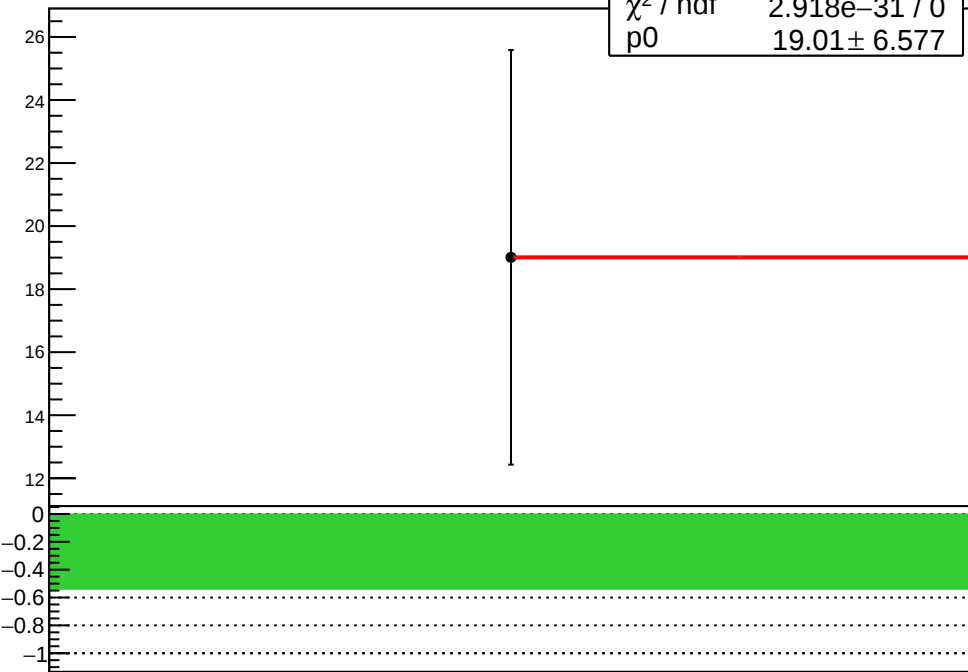
1D pull distribution



corr_us_avg_bpm11Y RMS (ppm)

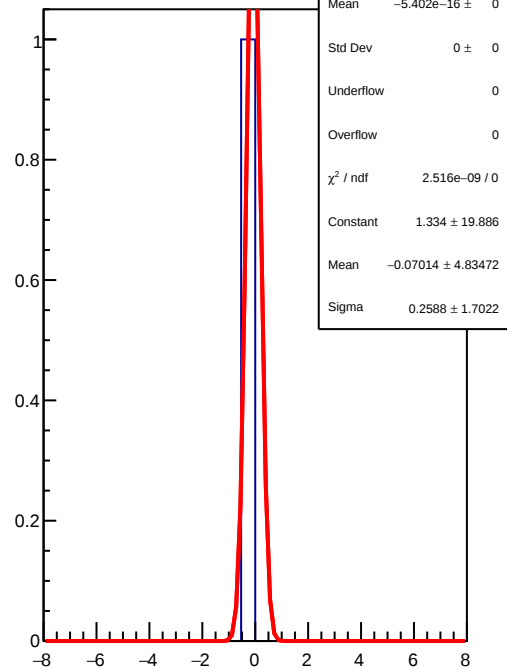


corr_us_avg_bpm8X (ppb)

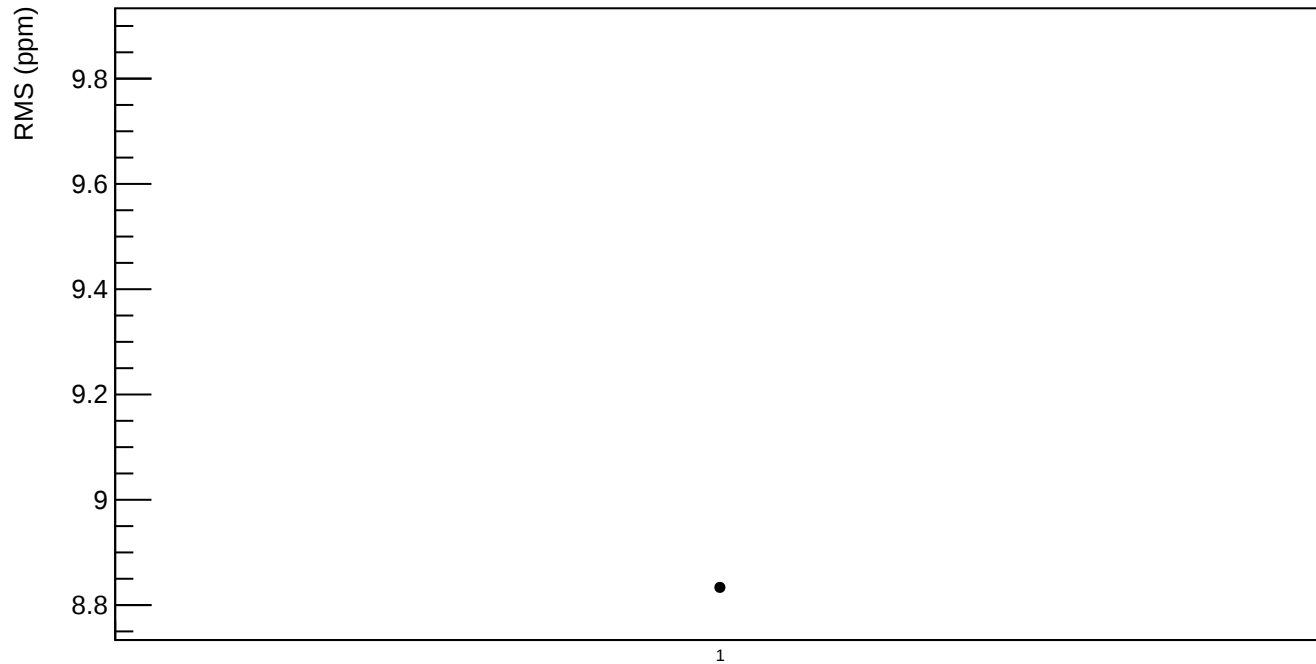


χ^2 / ndf	2.918e-31 / 0
p0	19.01 ± 6.577

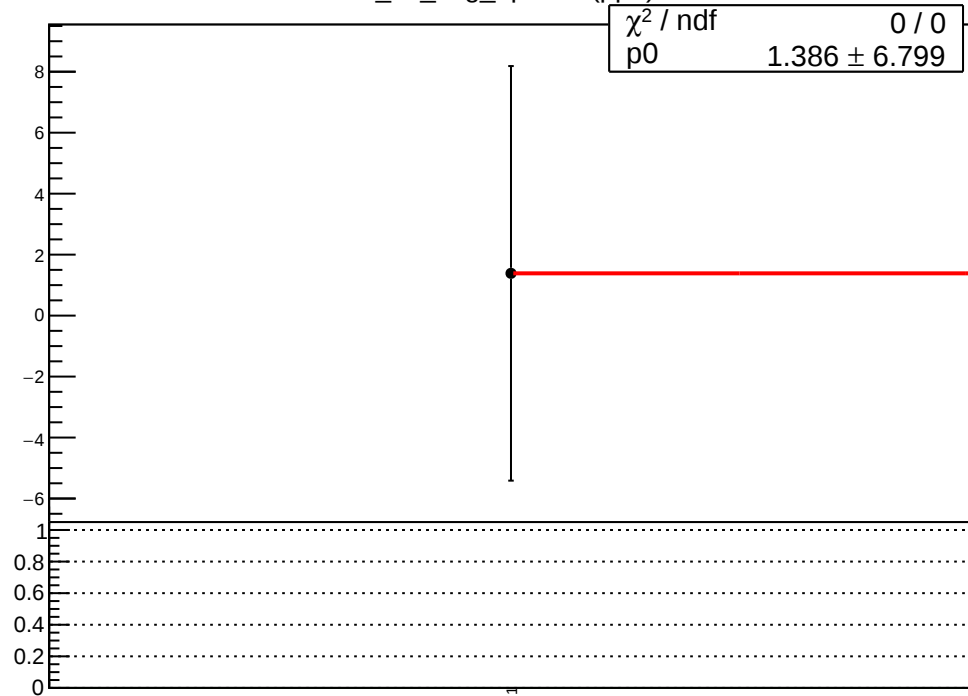
1D pull distribution



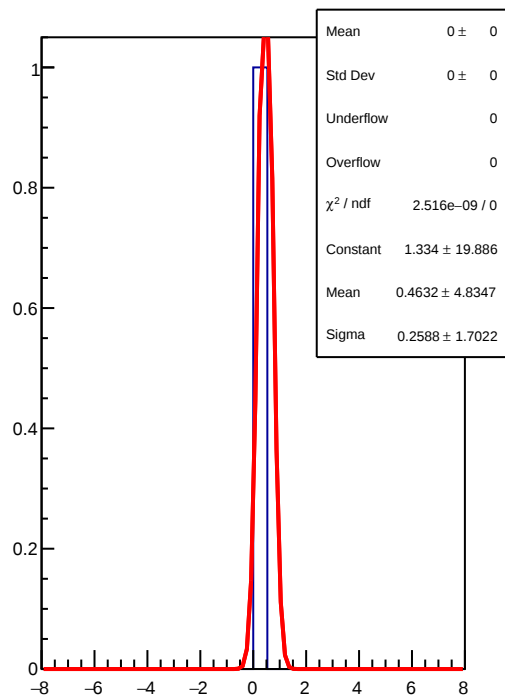
corr_us_avg_bpm8X RMS (ppm)



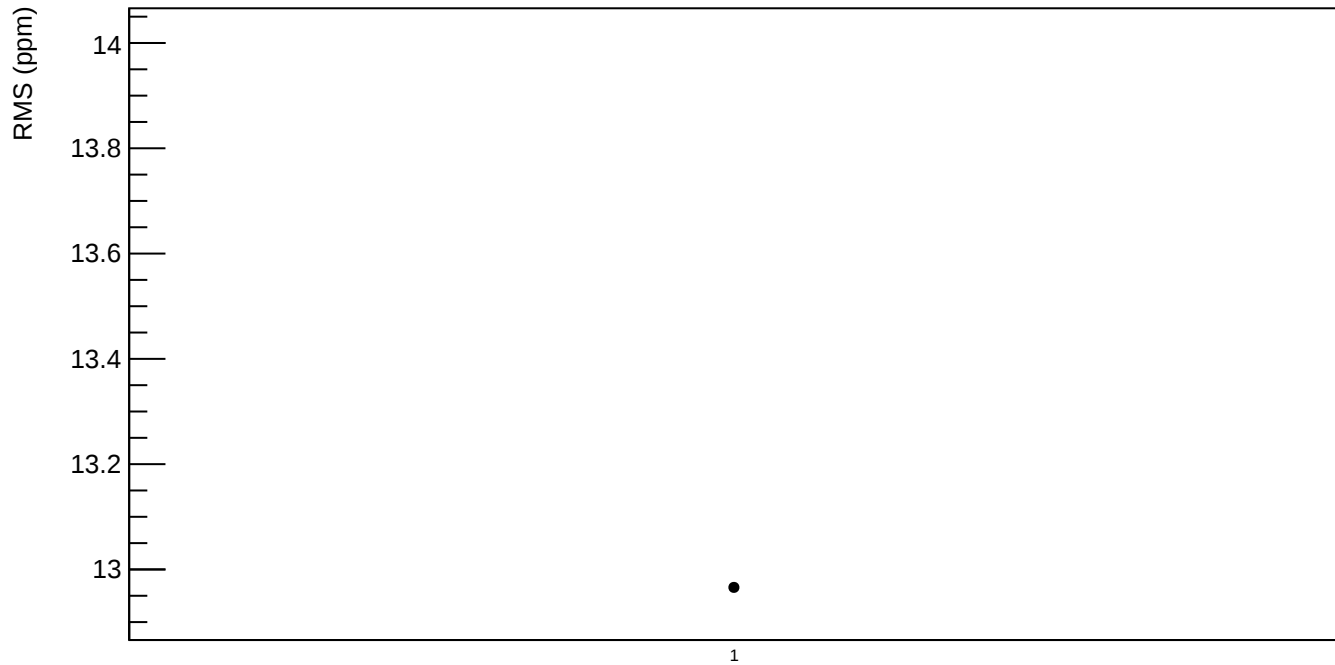
corr_us_avg_bpm8Y (ppb)



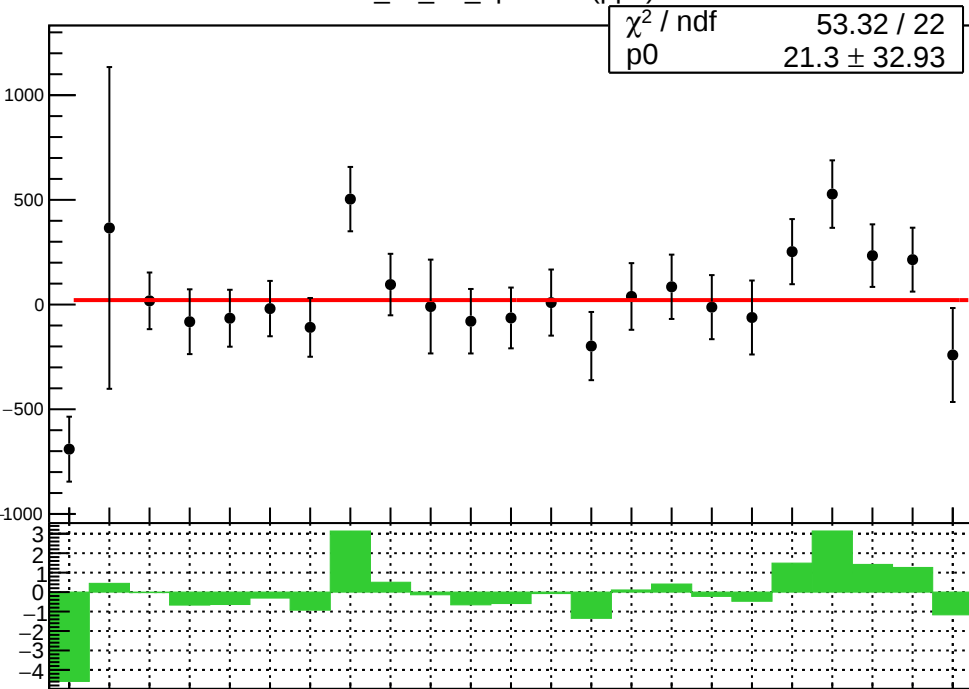
1D pull distribution



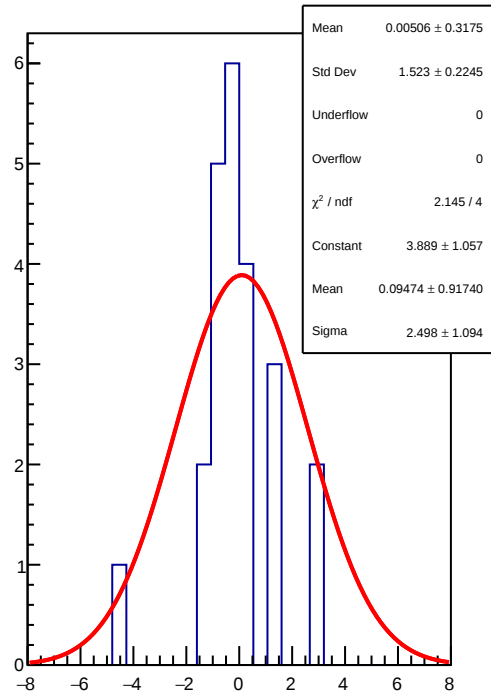
corr_us_avg_bpm8Y RMS (ppm)



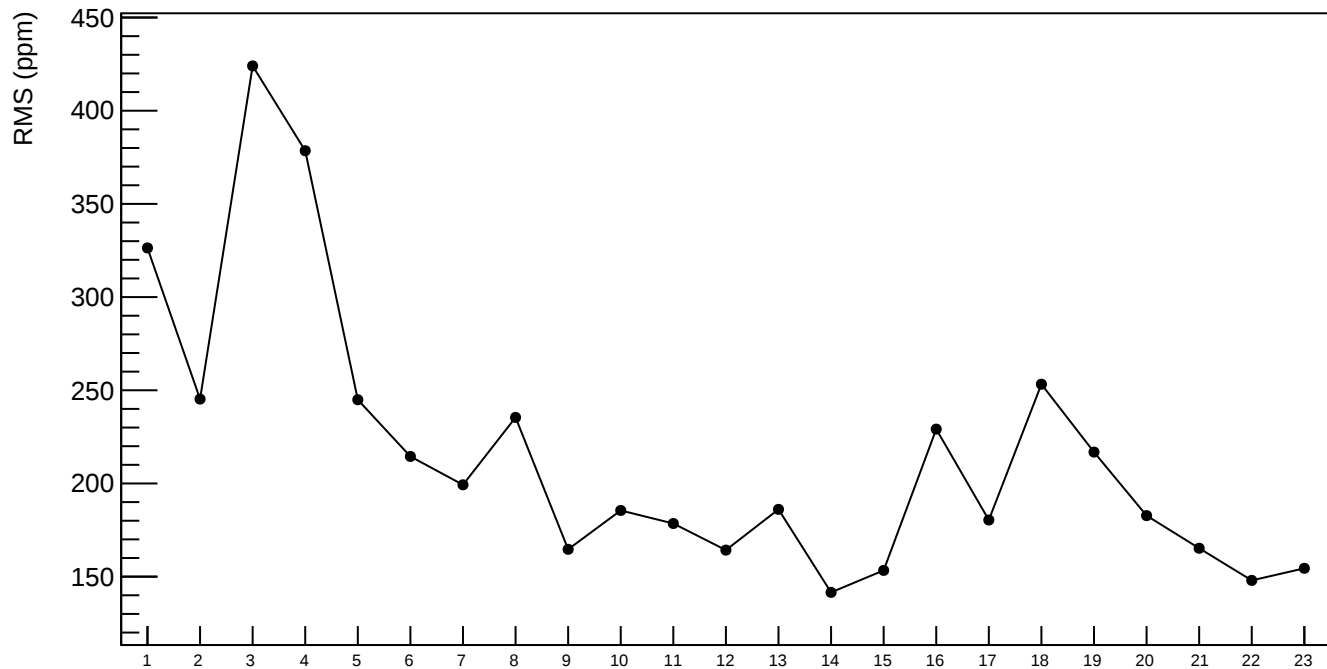
corr_us_dd_bpm4eX (ppb)



1D pull distribution



corr_us_dd_bpm4eX RMS (ppm)

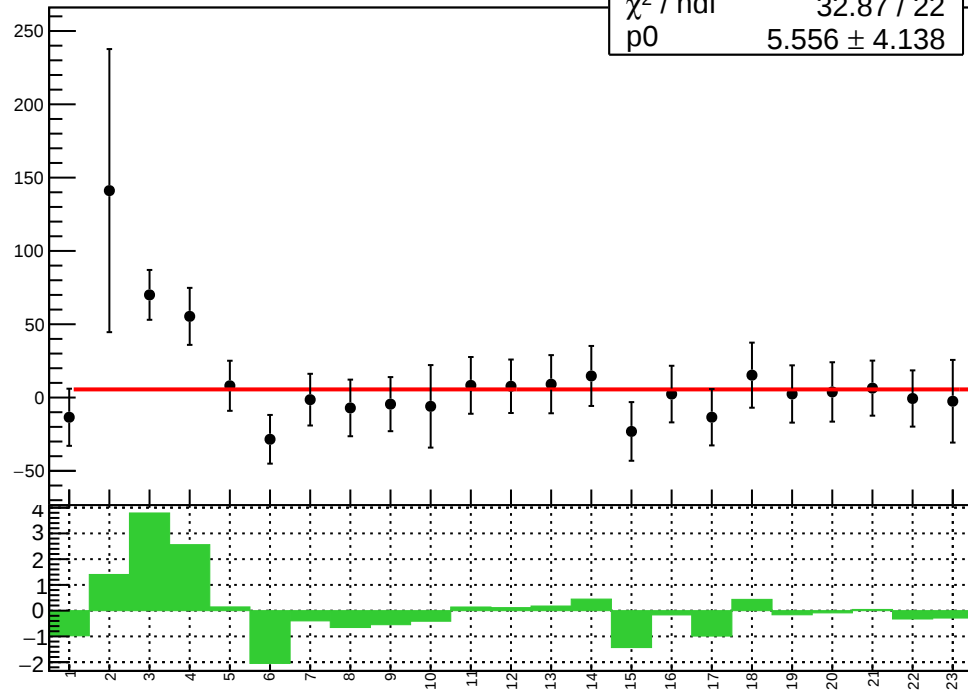


corr_us_dd_bpm4eY (ppb)

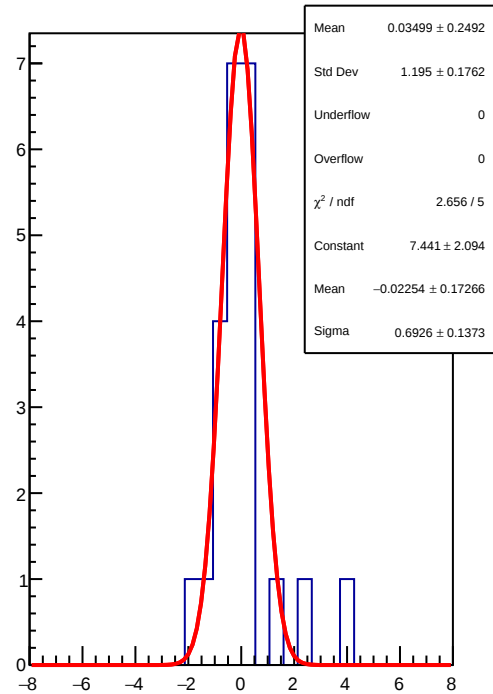
 χ^2 / nfd

32.87 / 22

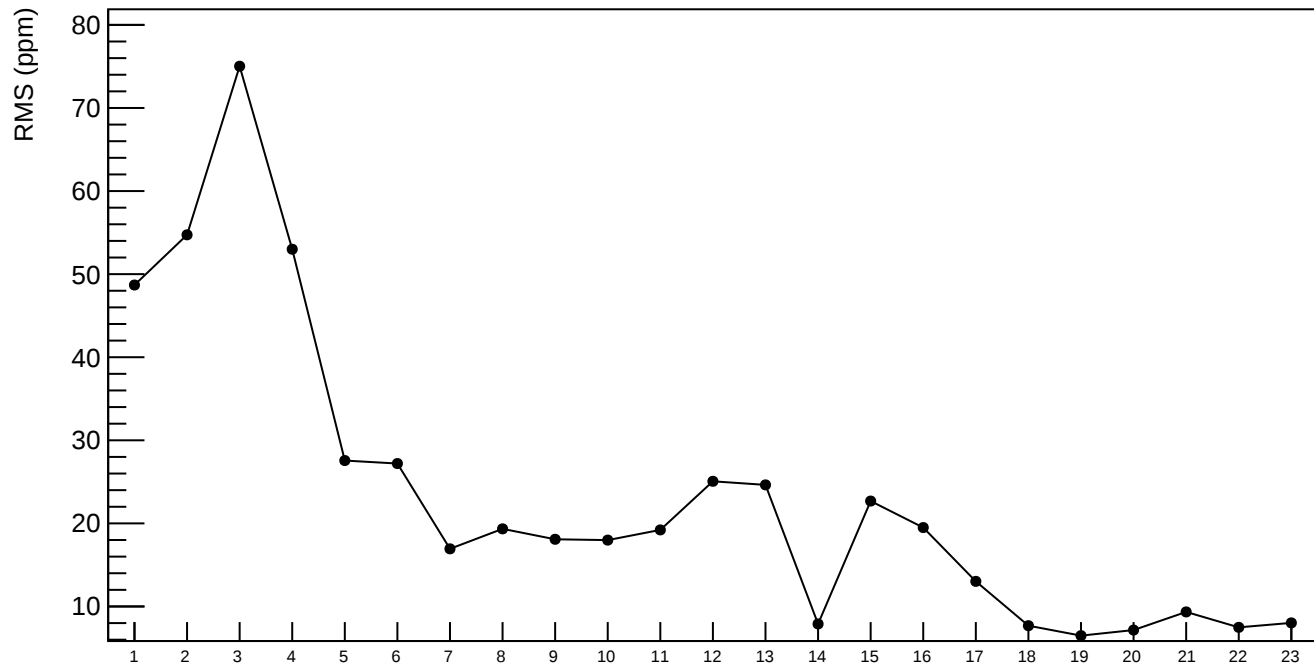
p0

 5.556 ± 4.138 

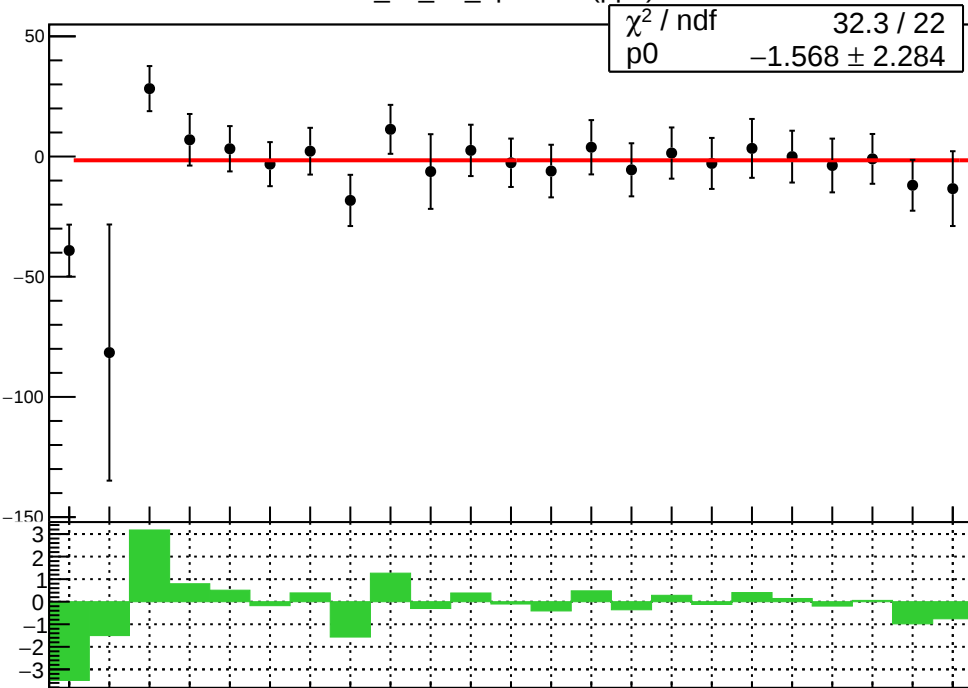
1D pull distribution



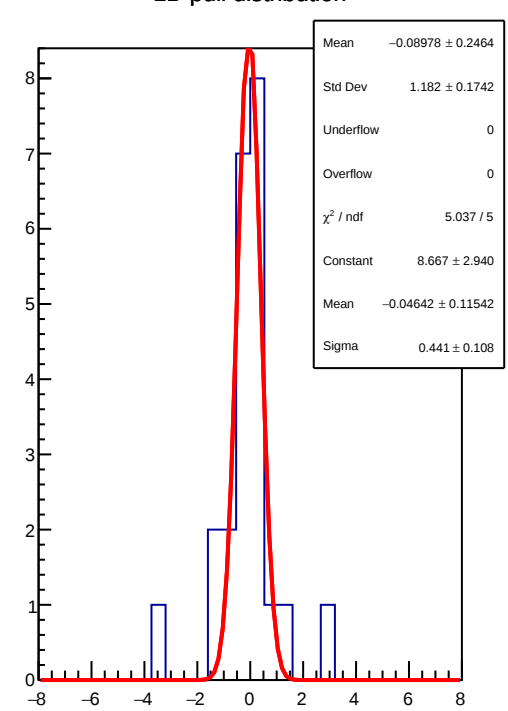
corr_us_dd_bpm4eY RMS (ppm)



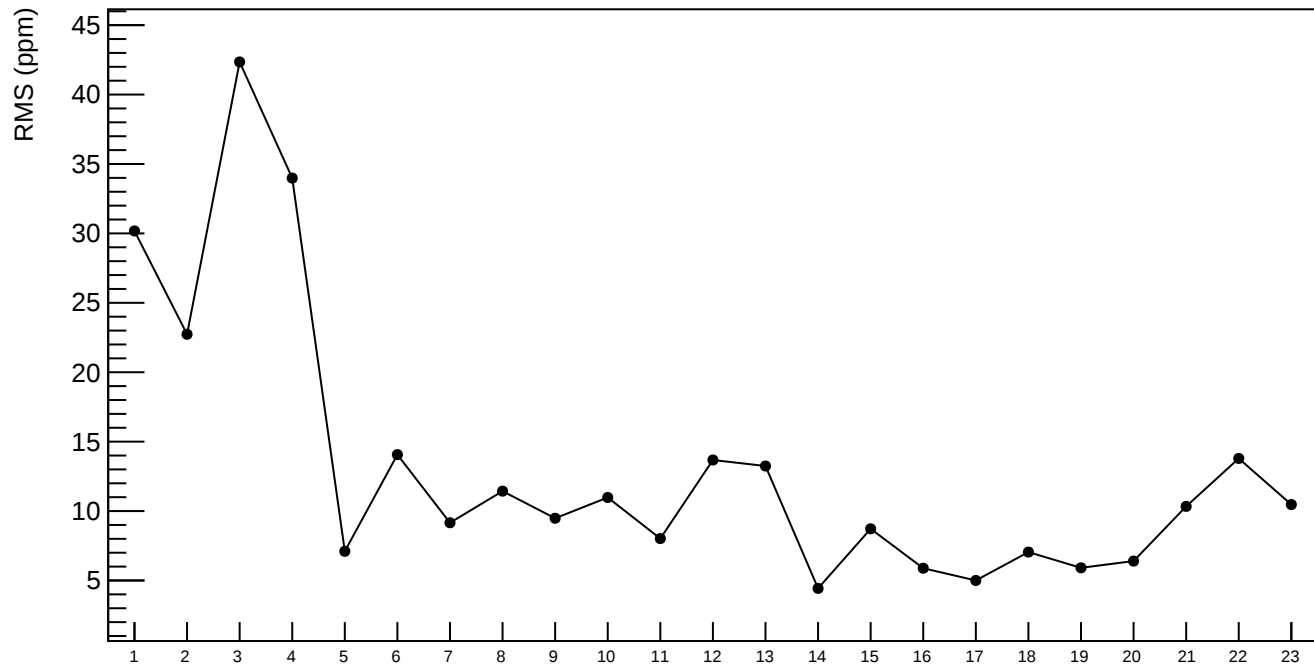
corr_us_dd_bpm4aX (ppb)



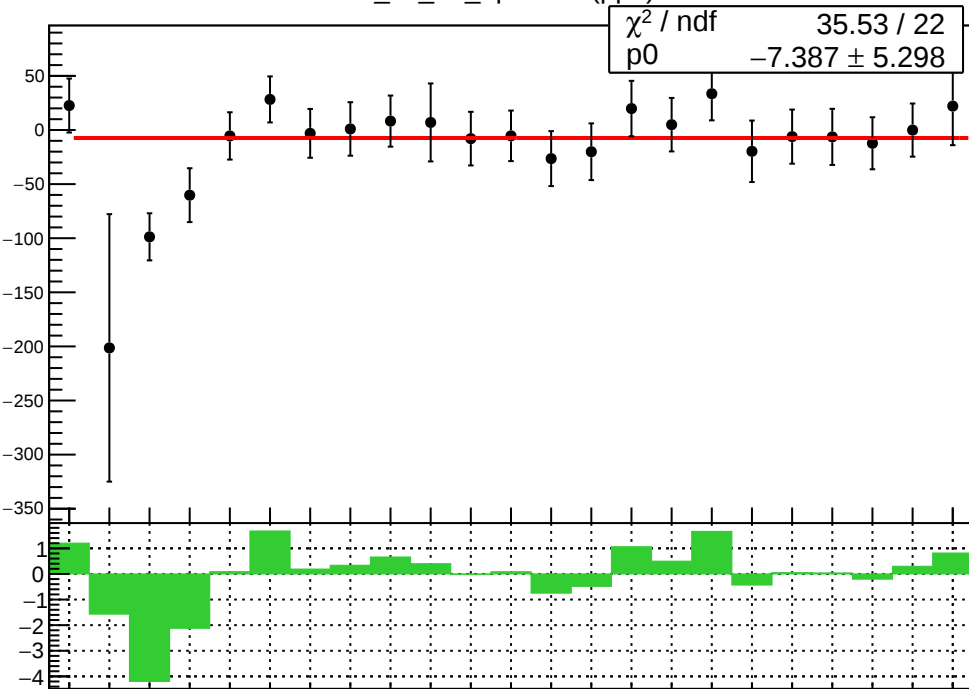
1D pull distribution



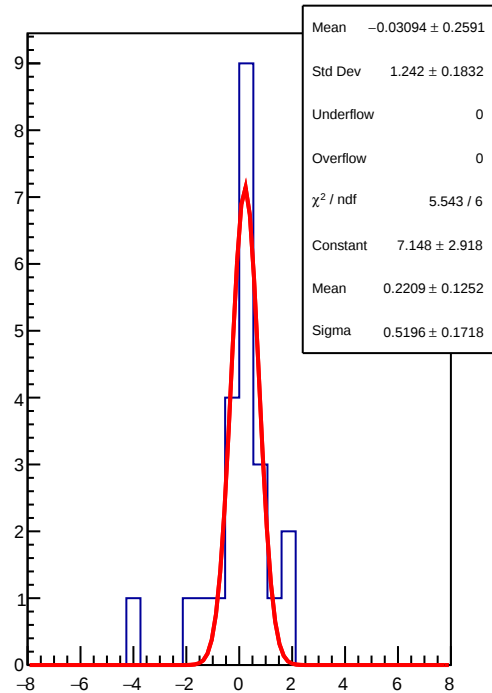
corr_us_dd_bpm4aX RMS (ppm)



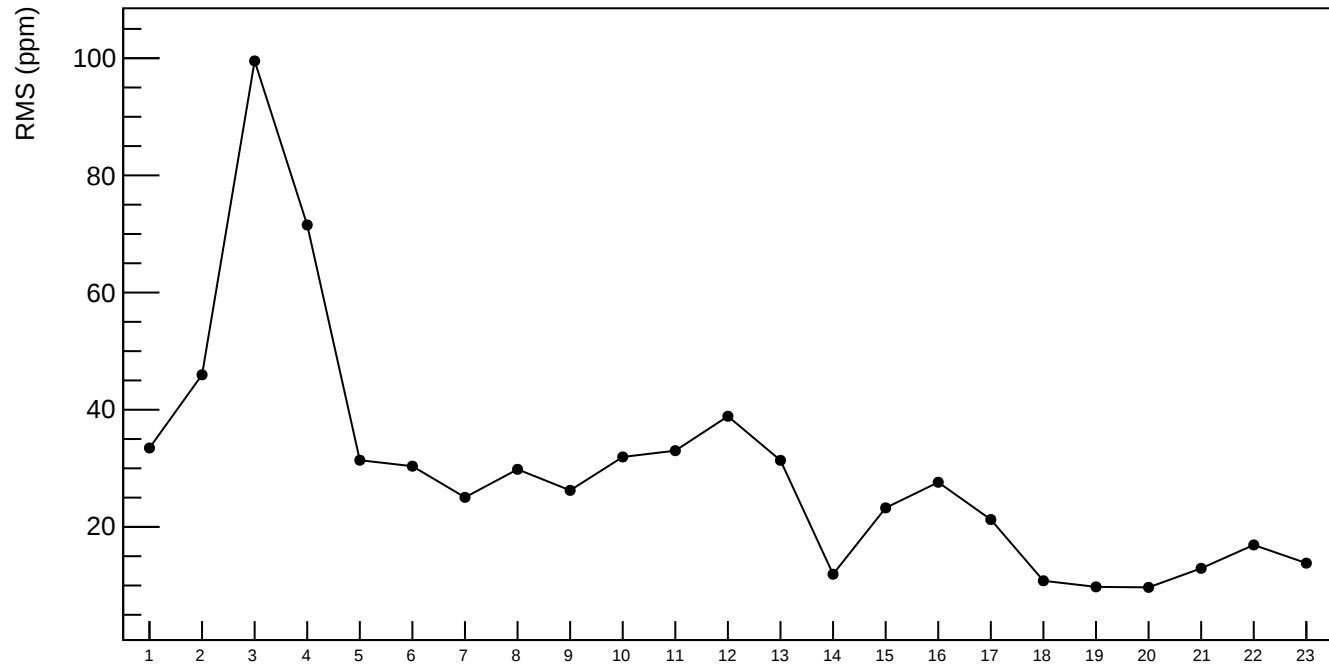
corr_us_dd_bpm4aY (ppb)



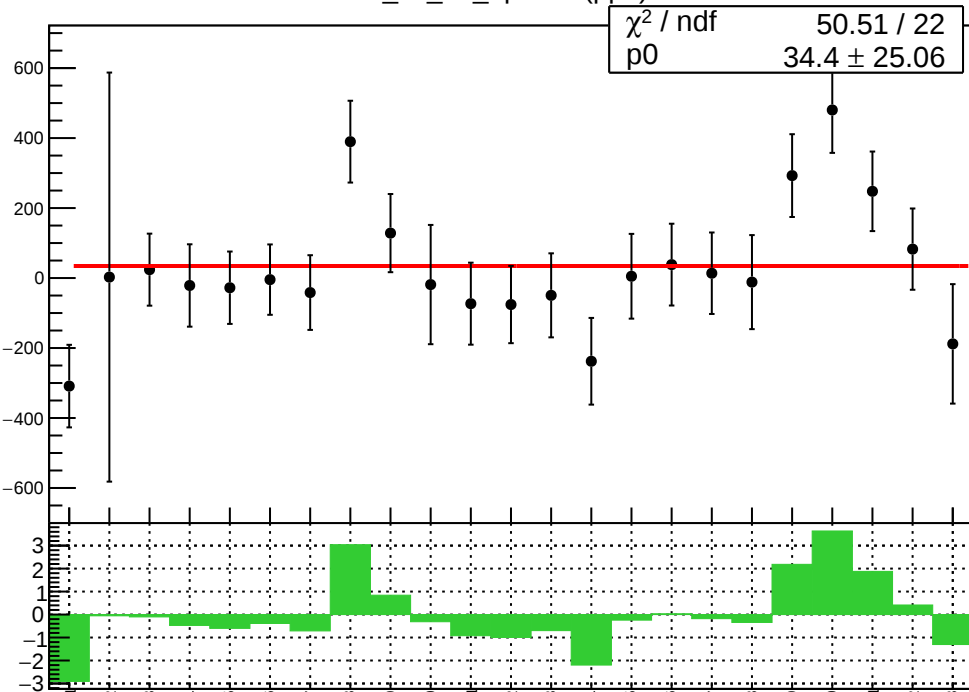
1D pull distribution



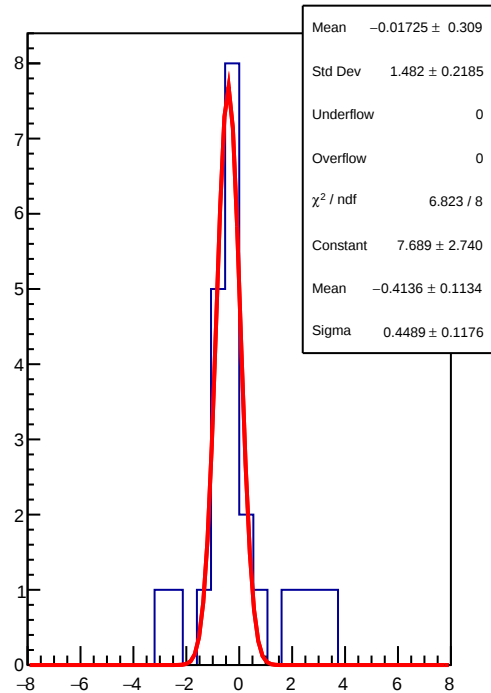
corr_us_dd_bpm4aY RMS (ppm)



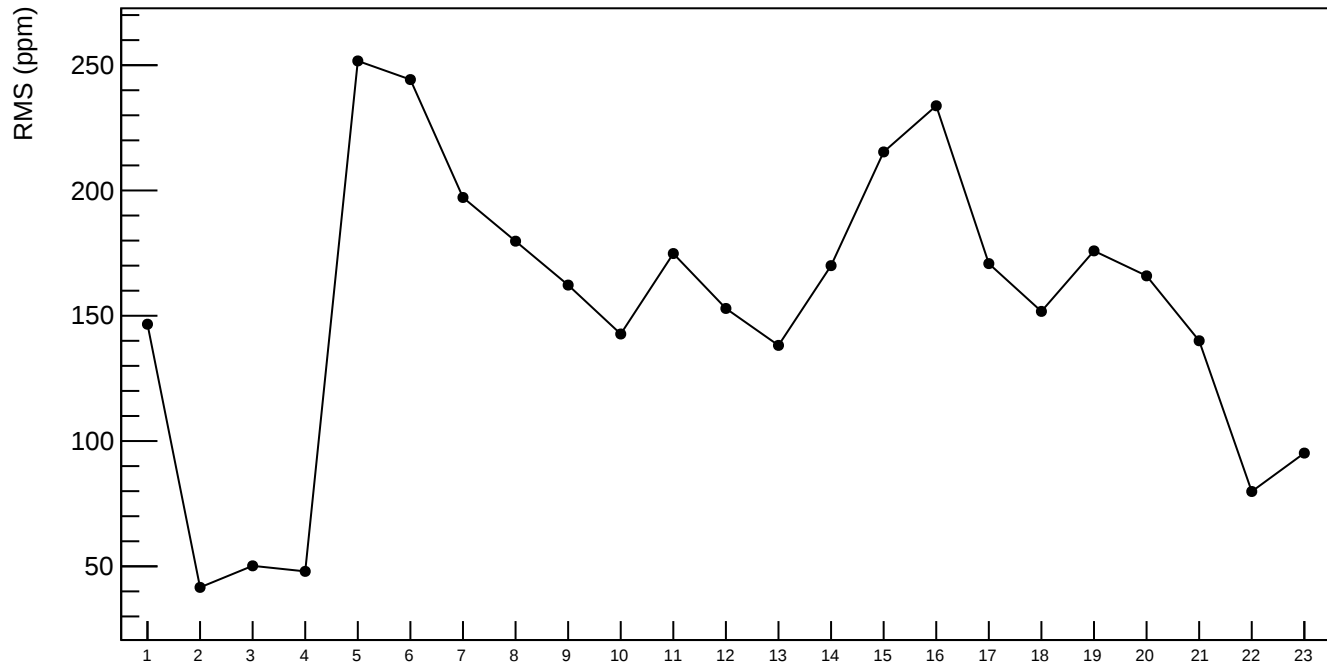
corr_us_dd_bpm1X (ppb)



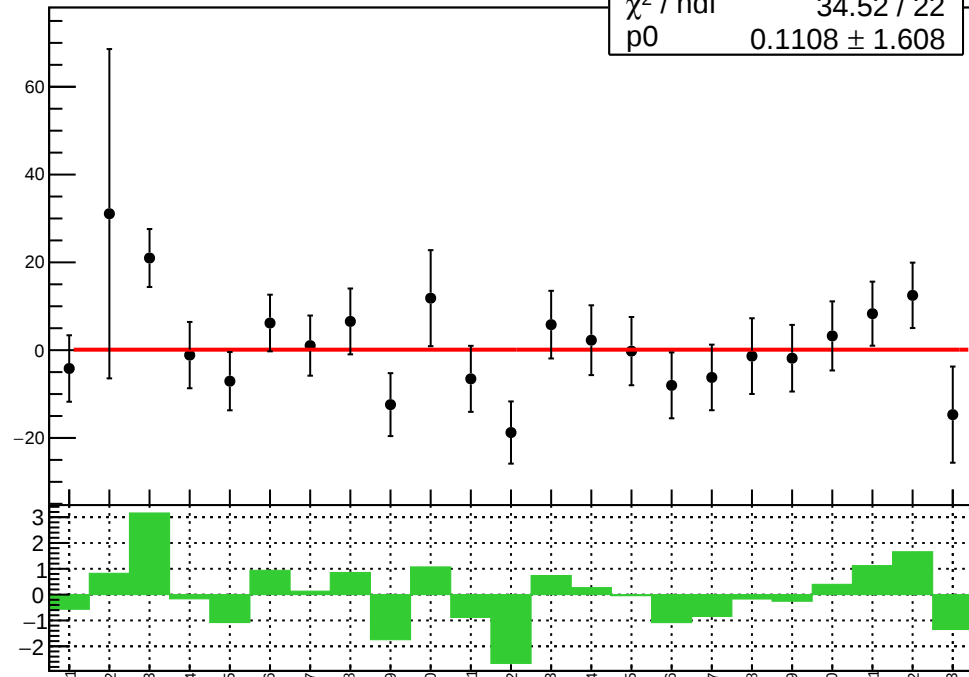
1D pull distribution



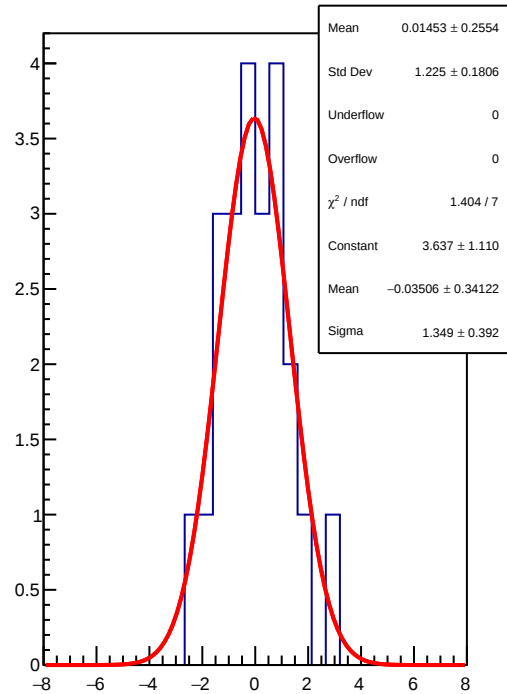
corr_us_dd_bpm1X RMS (ppm)



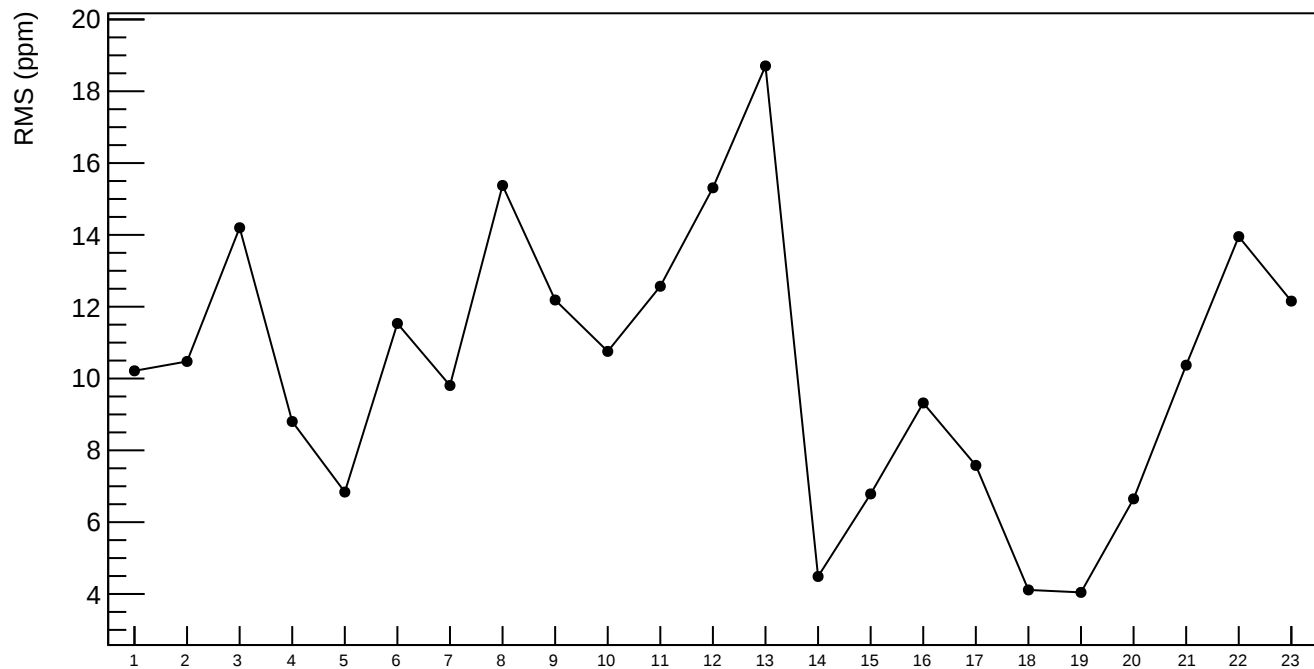
corr_us_dd_bpm1Y (ppb)

 χ^2 / nfd 34.52 / 22
p0 0.1108 ± 1.608 

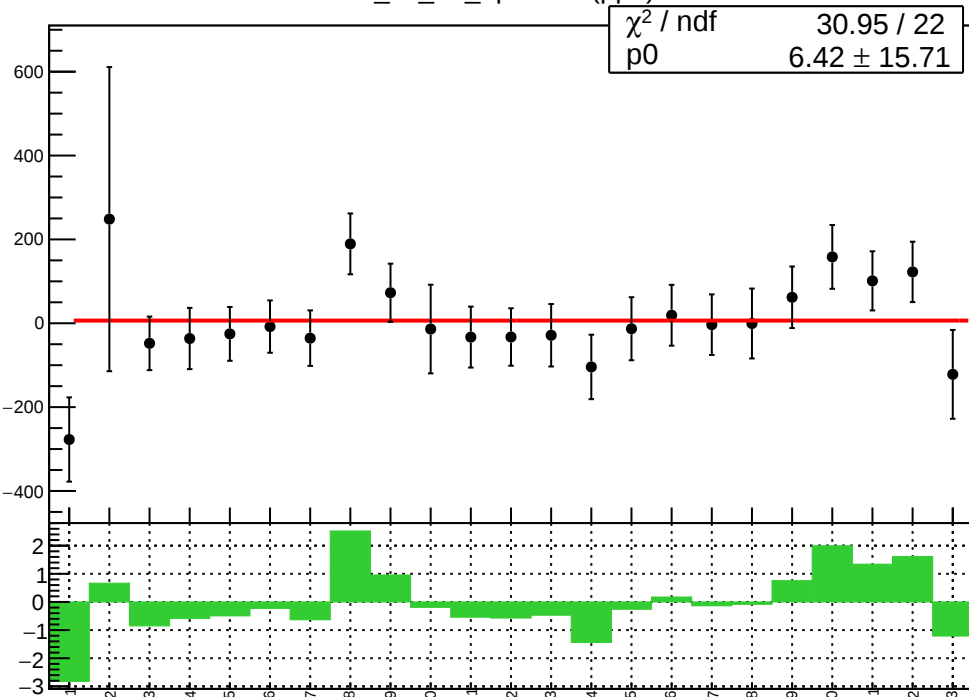
1D pull distribution



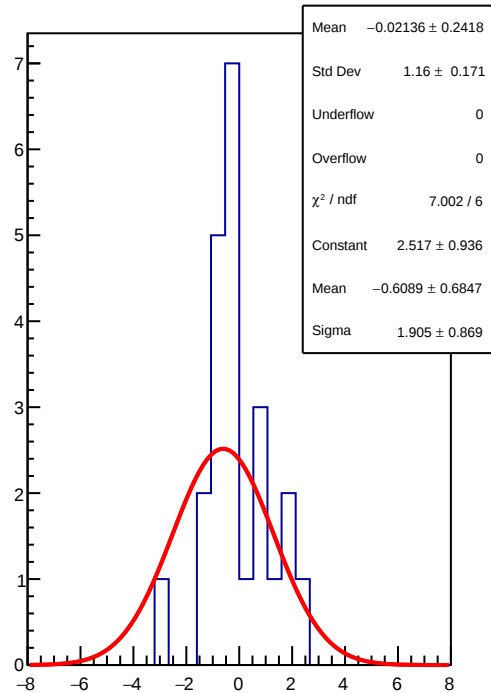
corr_us_dd_bpm1Y RMS (ppm)



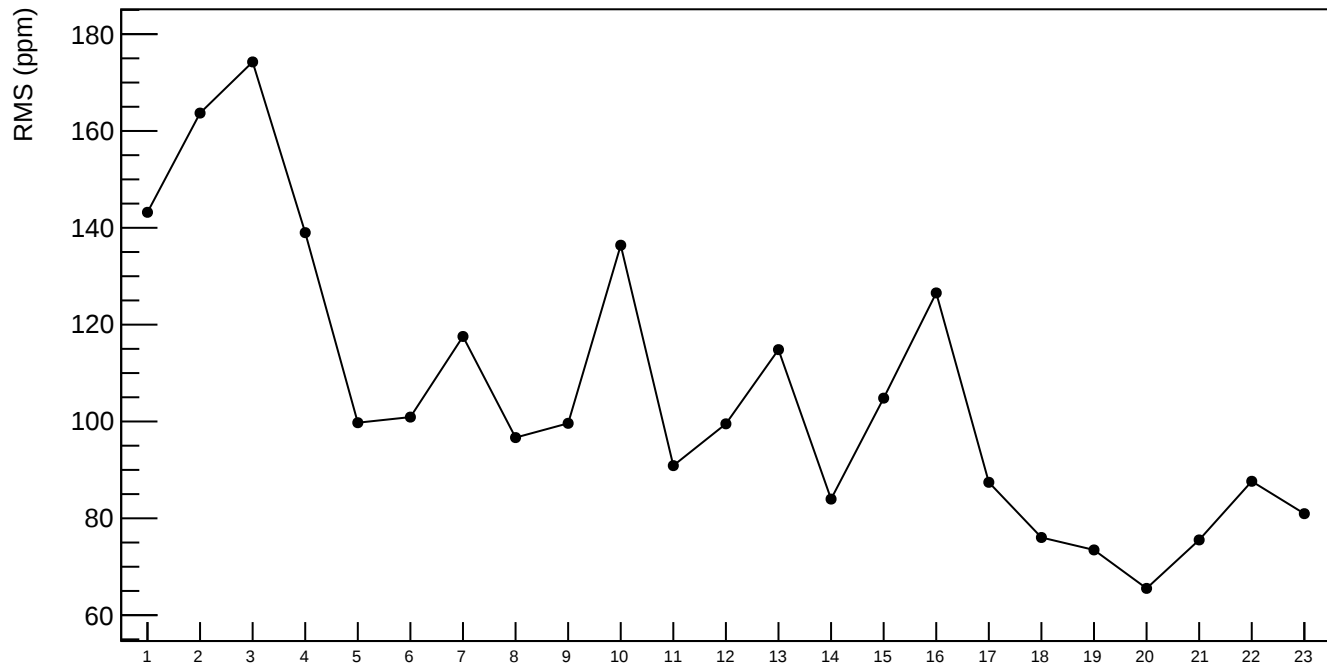
corr_us_dd_bpm16X (ppb)



1D pull distribution



corr_us_dd_bpm16X RMS (ppm)



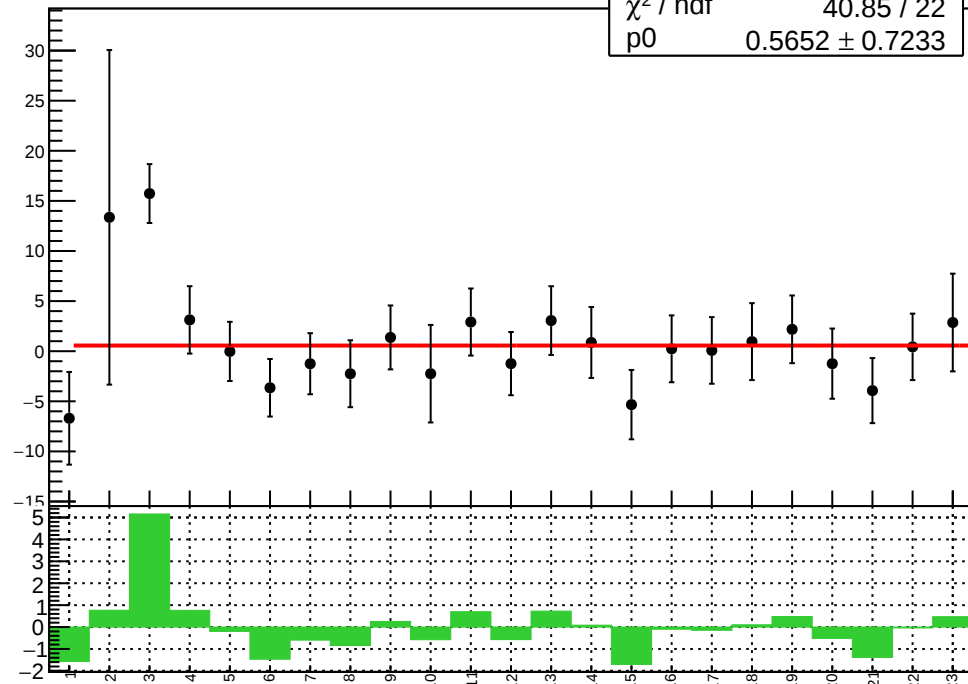
corr_us_dd_bpm16Y (ppb)

χ^2 / ndf

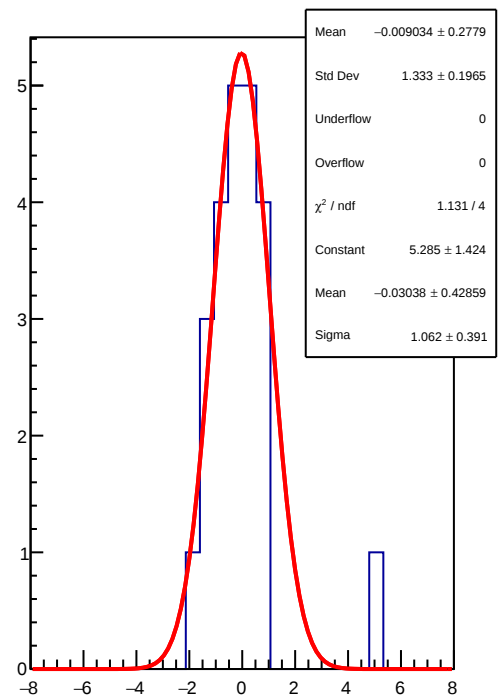
40.85 / 22

p0

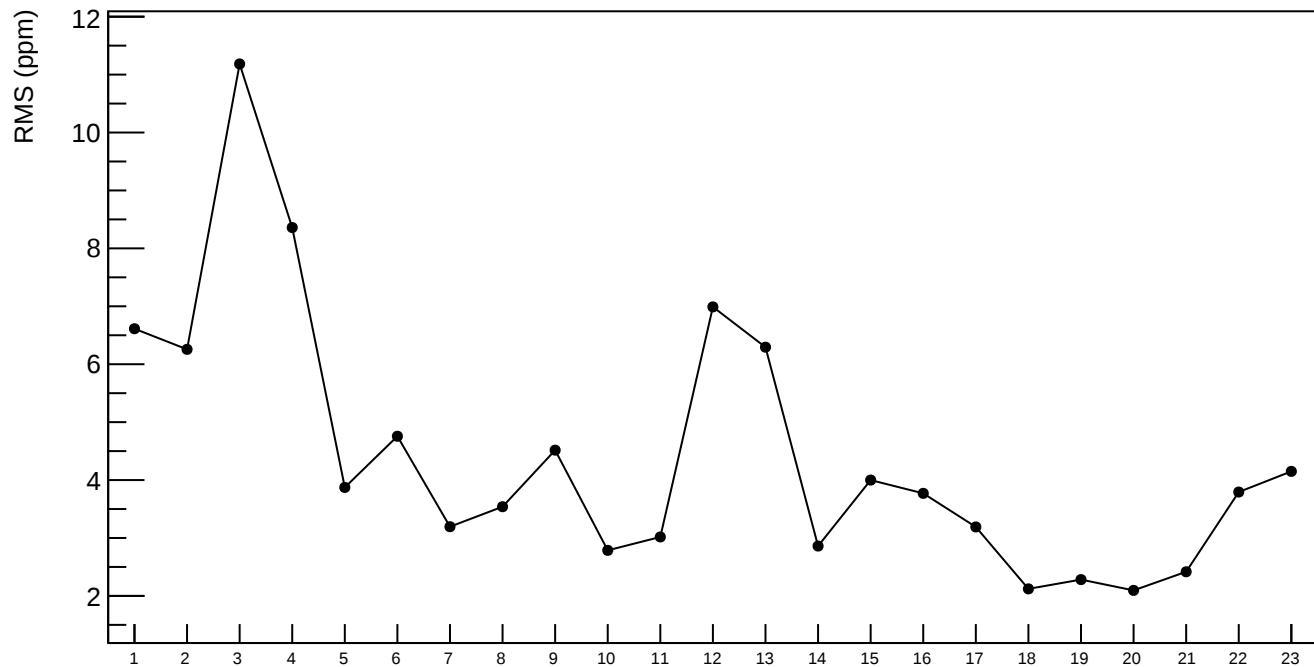
0.5652 ± 0.7233



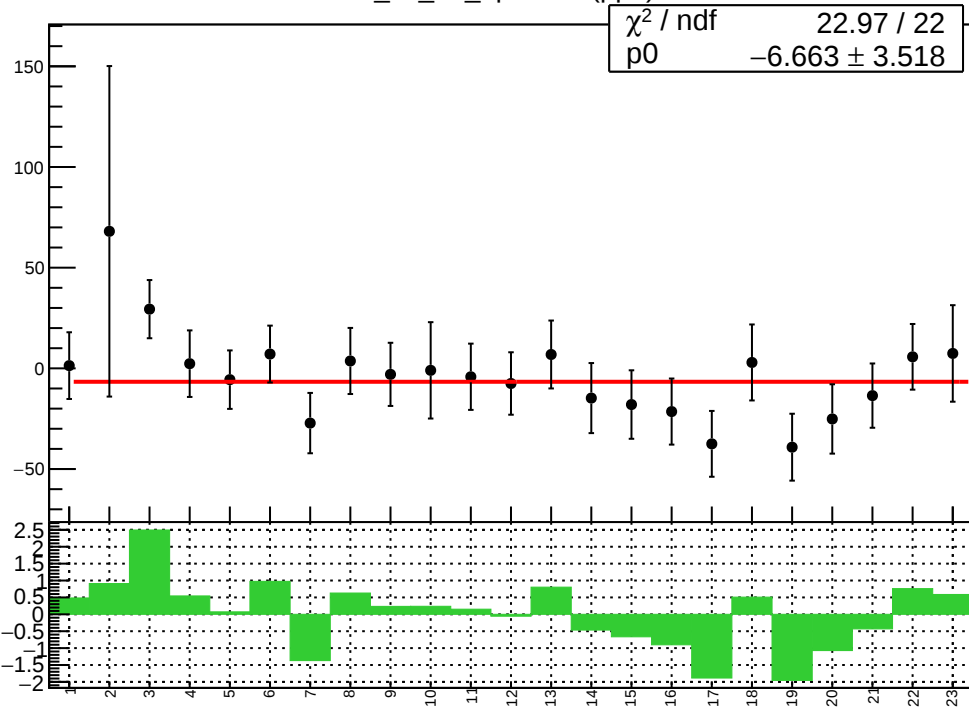
1D pull distribution



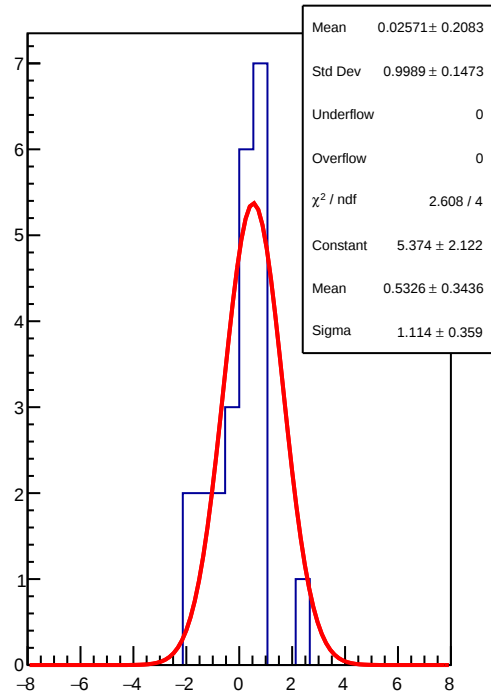
corr_us_dd_bpm16Y RMS (ppm)



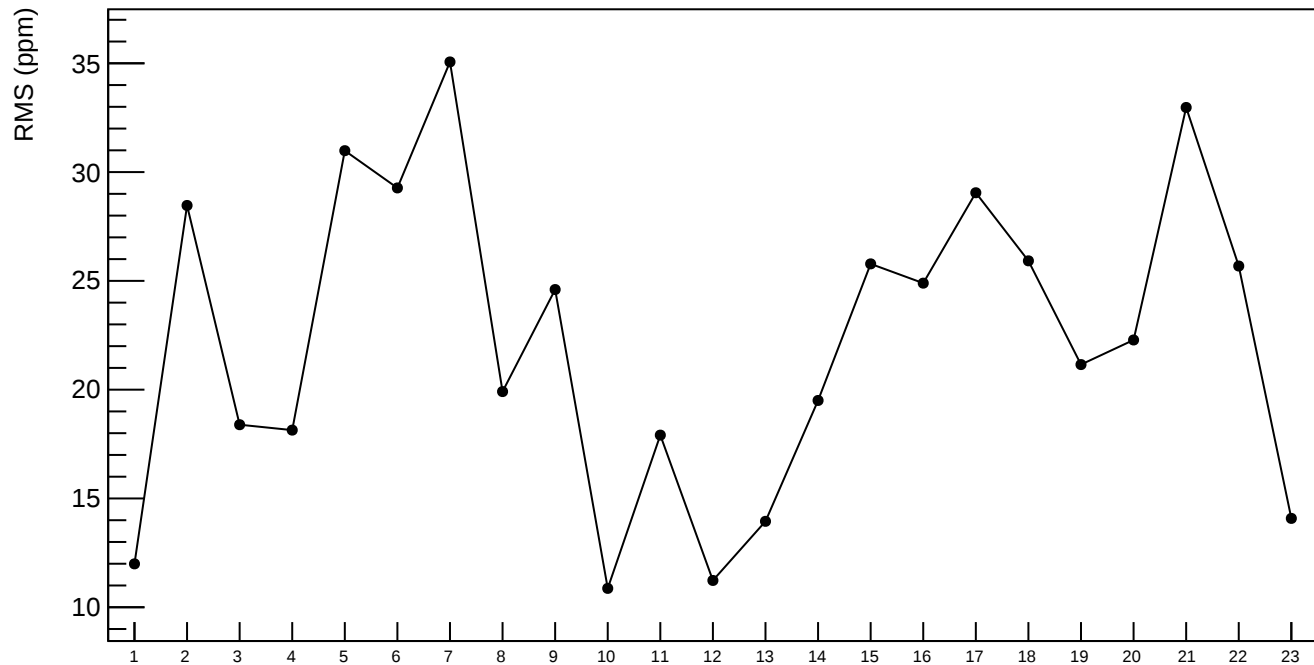
corr_us_dd_bpm12X (ppb)



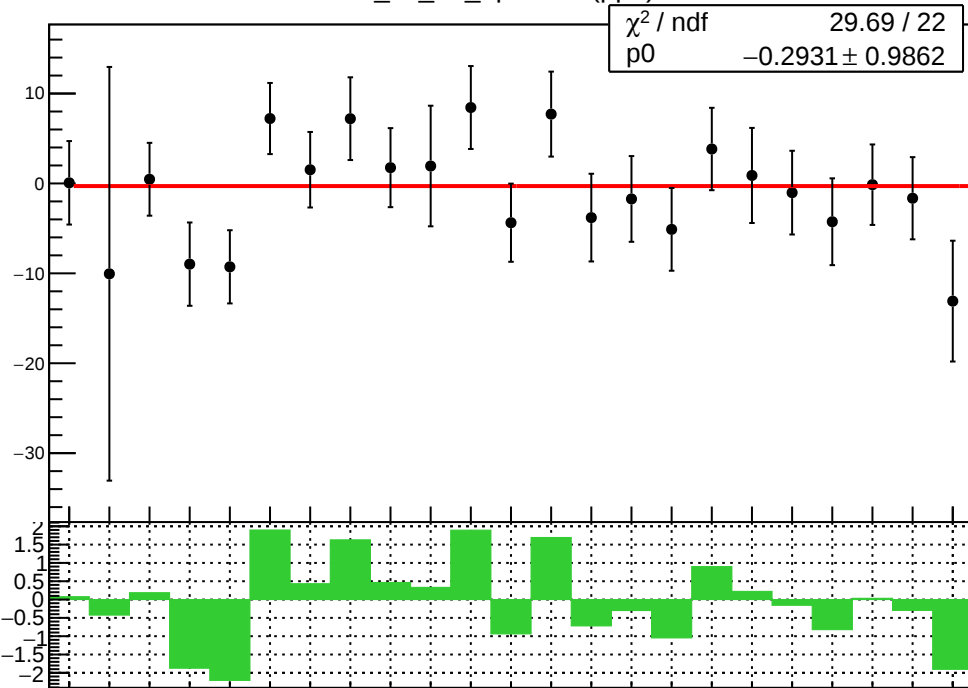
1D pull distribution



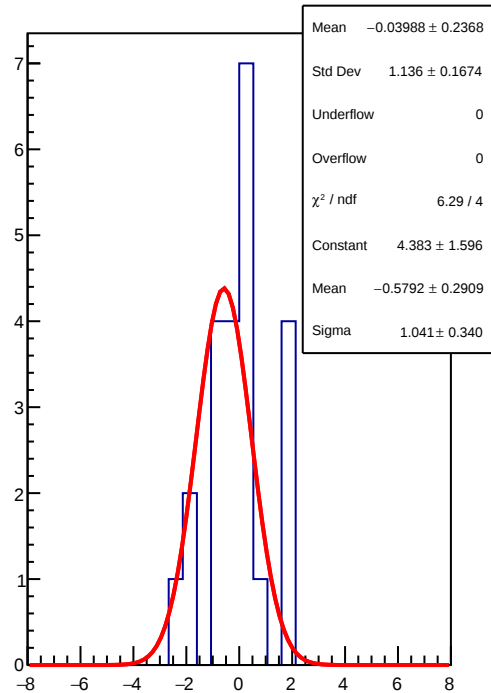
corr_us_dd_bpm12X RMS (ppm)



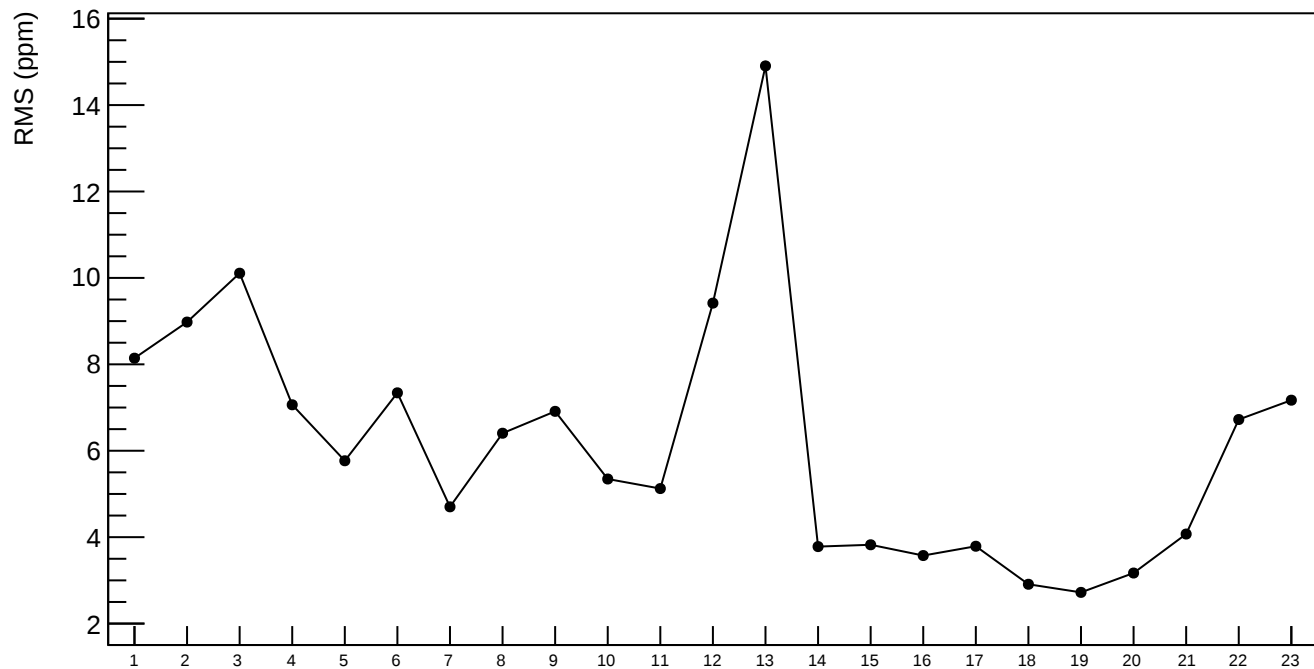
corr_us_dd_bpm12Y (ppb)



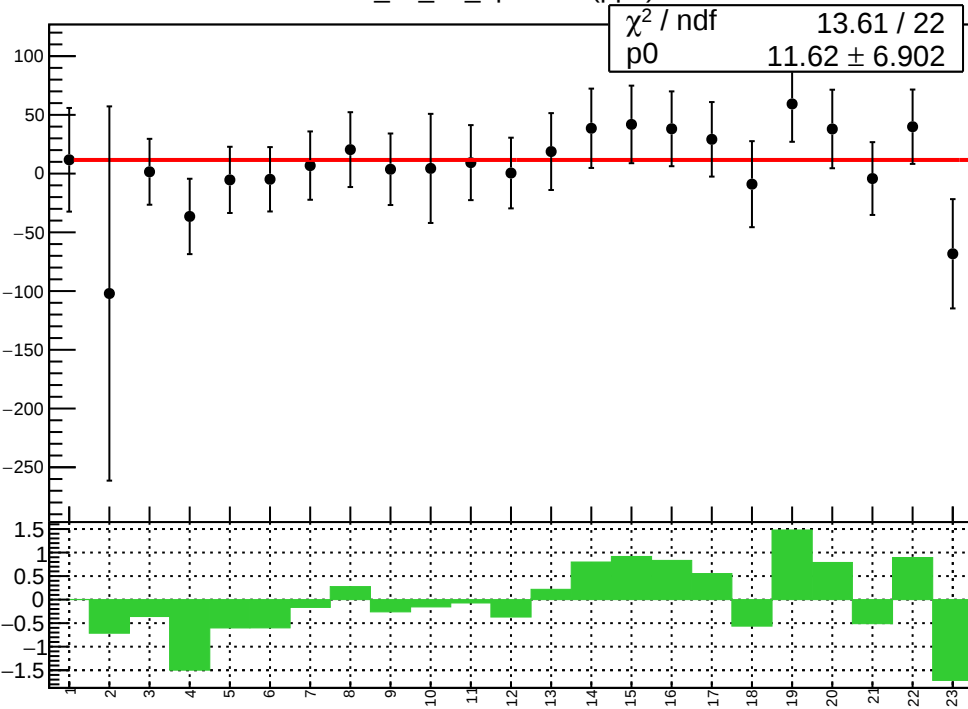
1D pull distribution



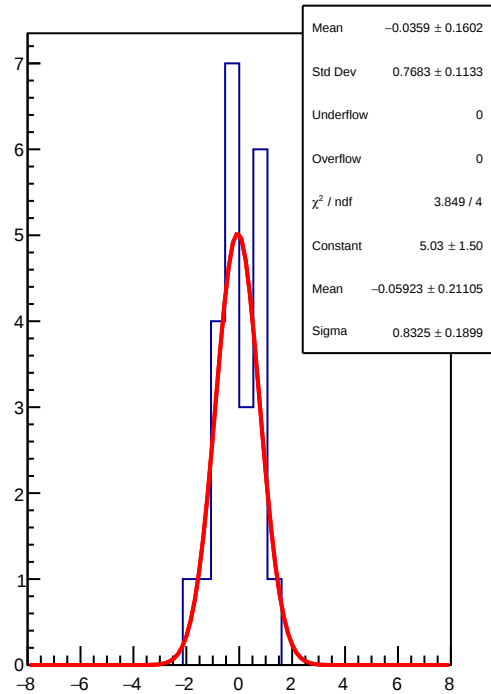
corr_us_dd_bpm12Y RMS (ppm)



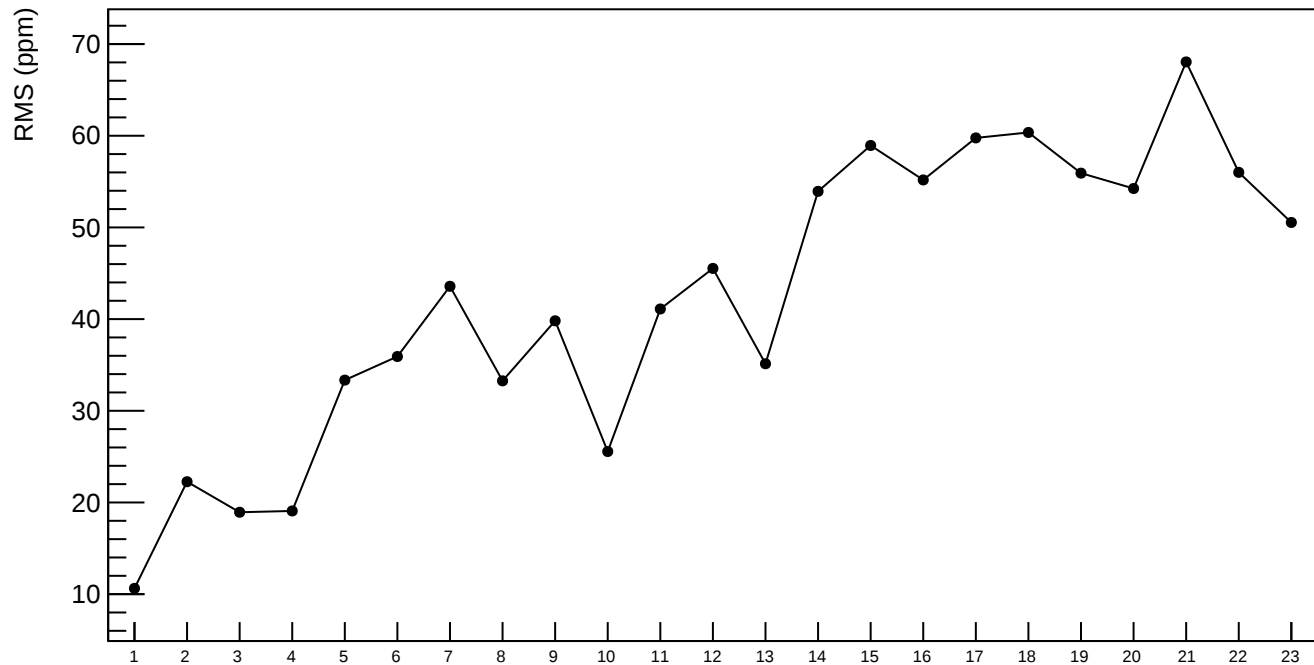
corr_us_dd_bpm11X (ppb)



1D pull distribution



corr_us_dd_bpm11X RMS (ppm)

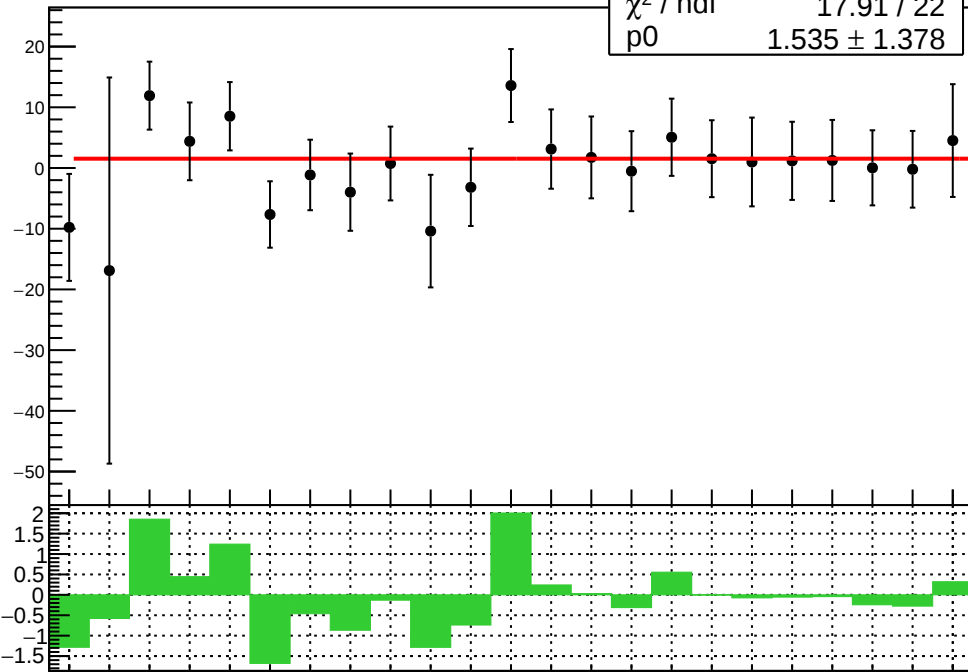


corr_us_dd_bpm11Y (ppb)

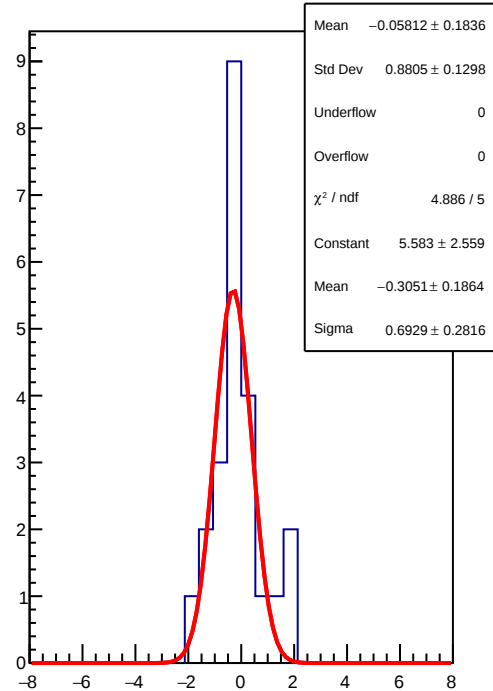
 χ^2 / ndf

17.91 / 22

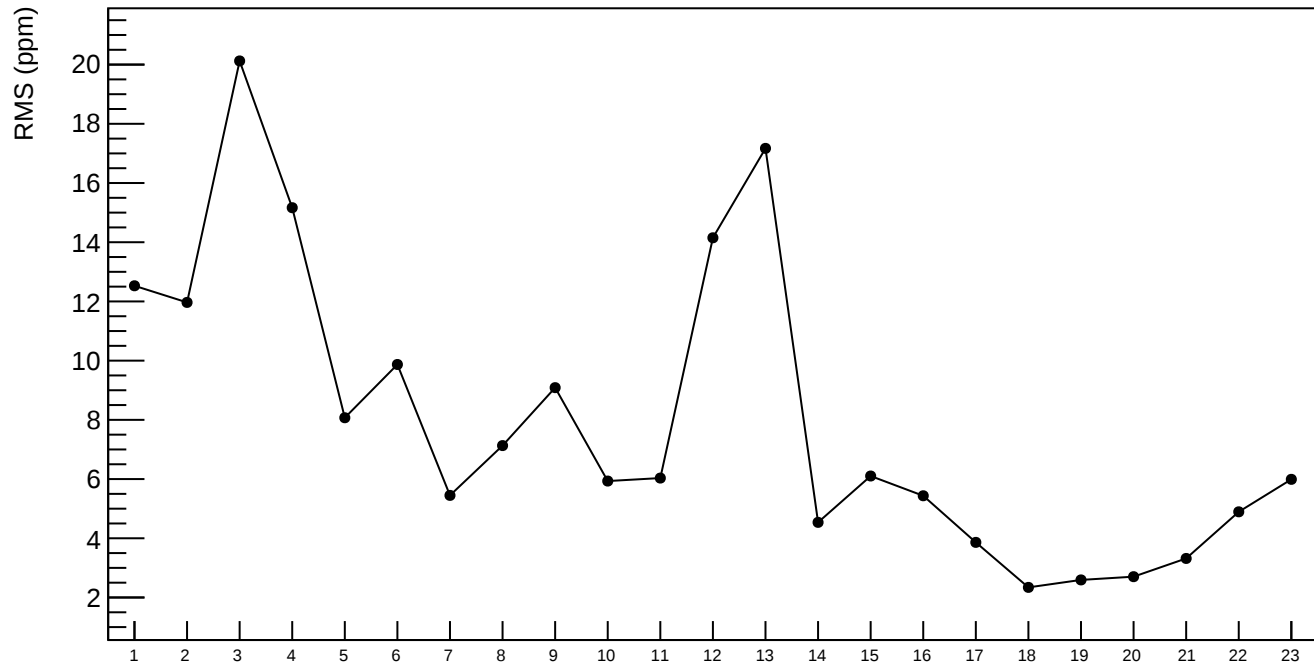
p0

 1.535 ± 1.378 

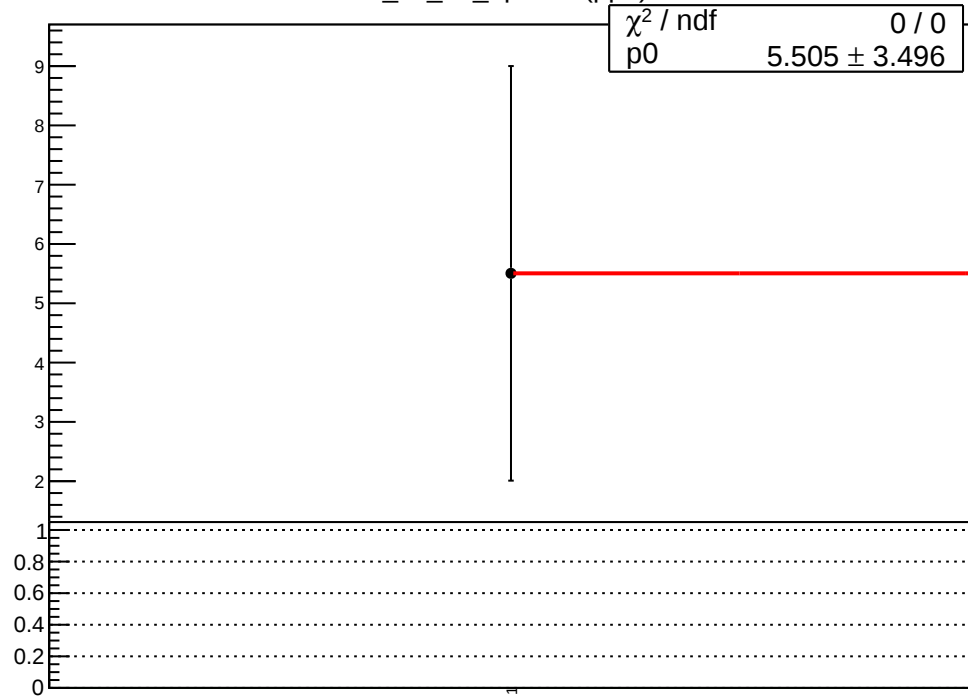
1D pull distribution



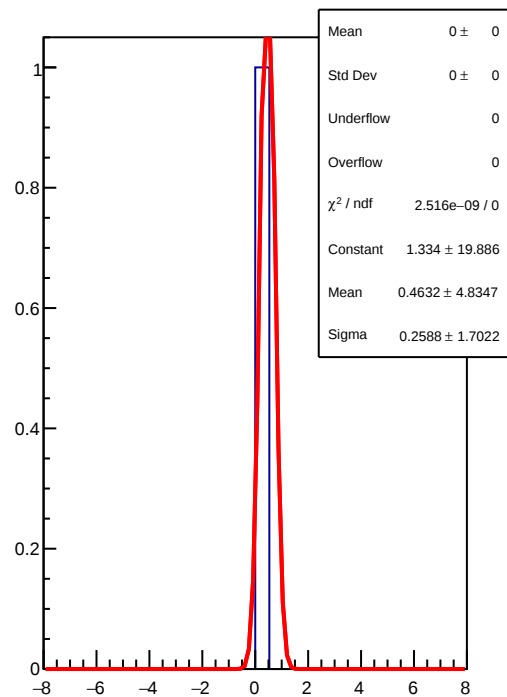
corr_us_dd_bpm11Y RMS (ppm)



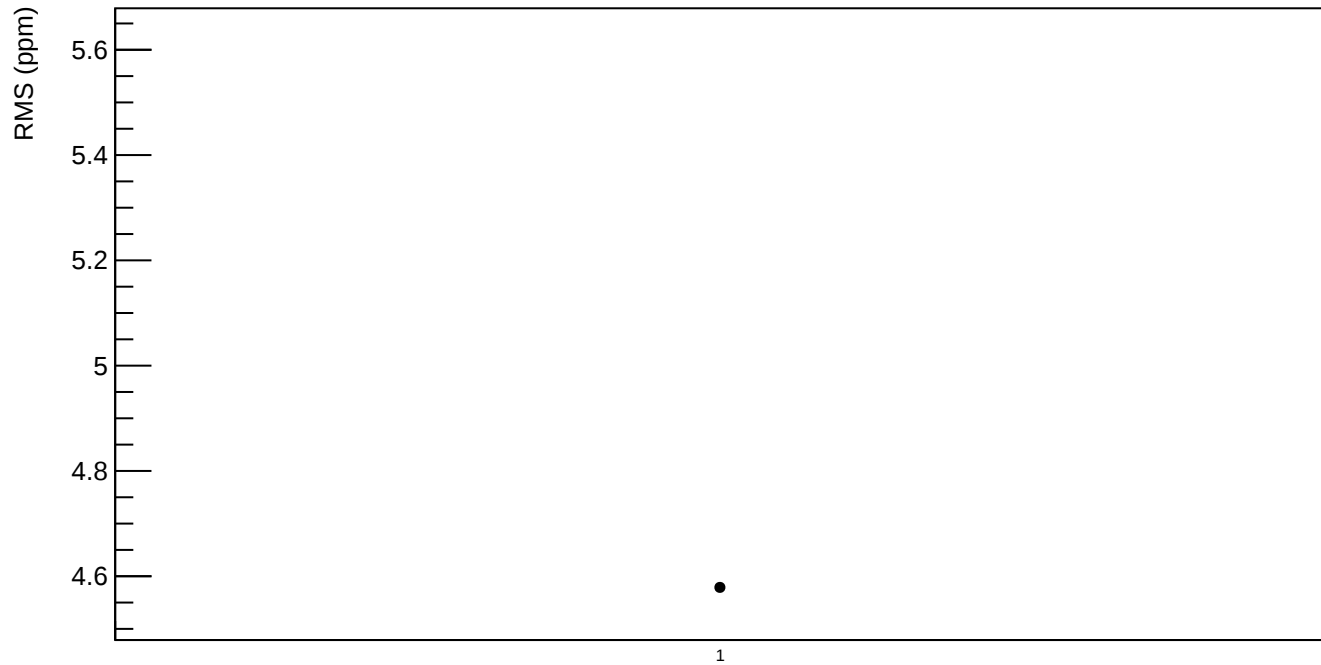
corr_us_dd_bpm8X (ppb)



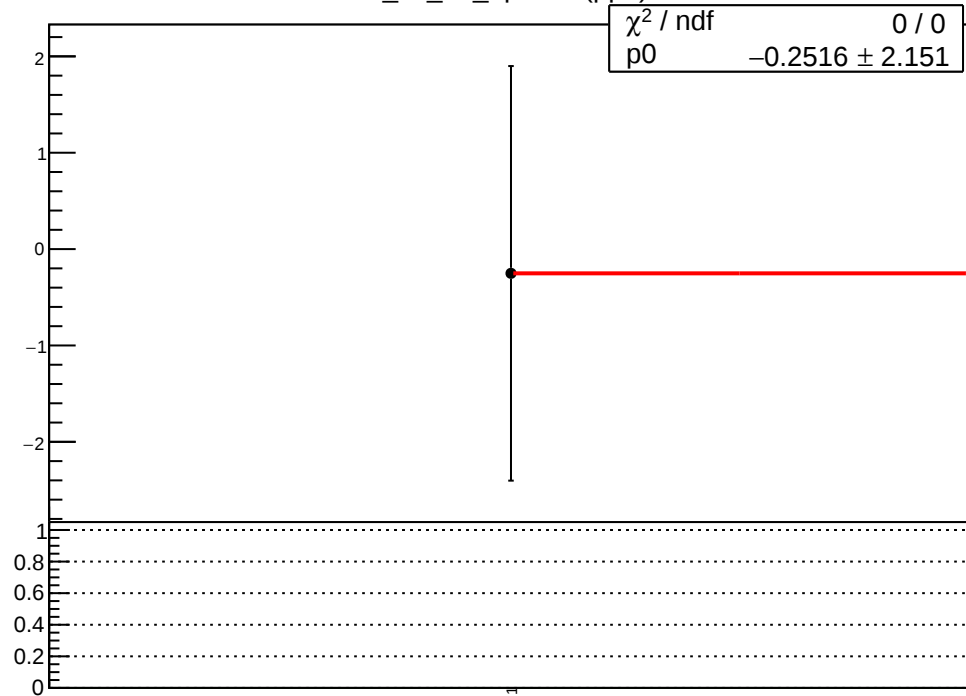
1D pull distribution



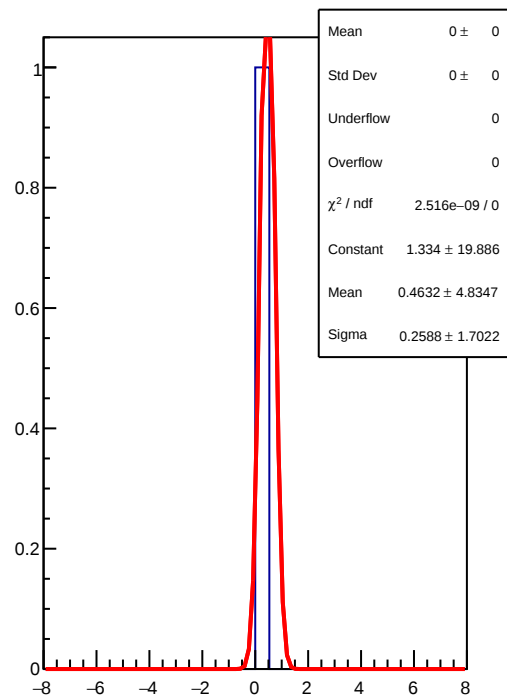
corr_us_dd_bpm8X RMS (ppm)



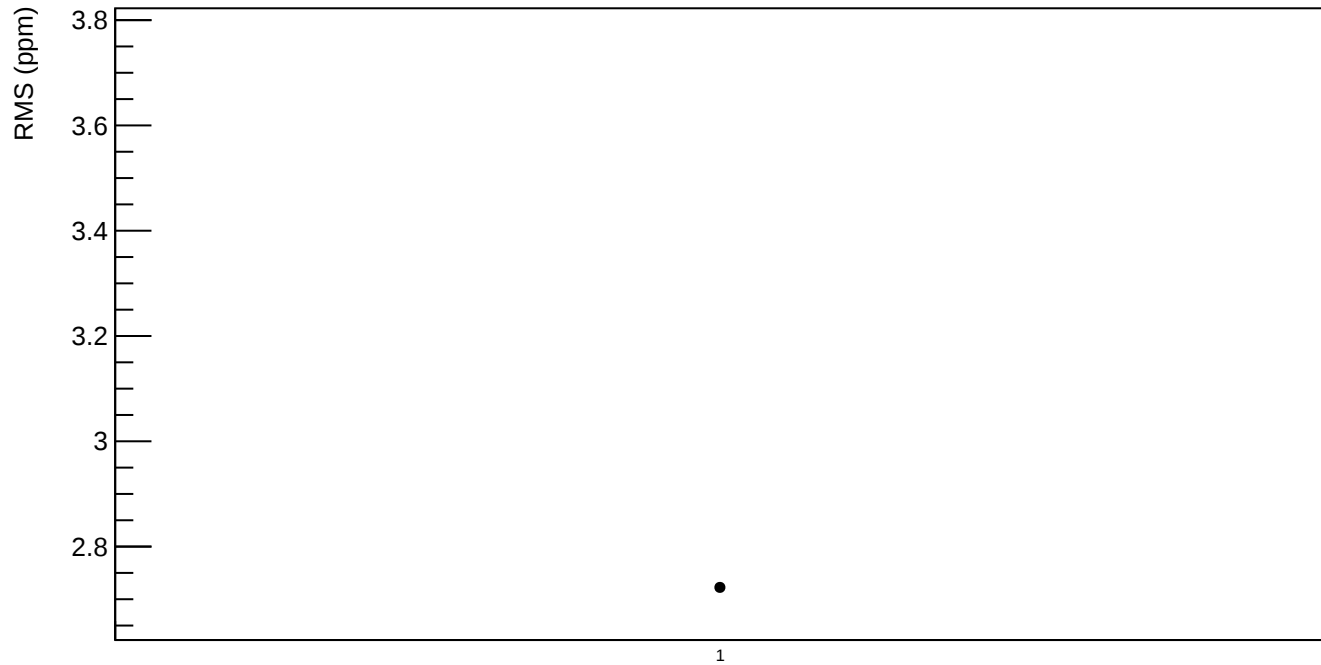
corr_us_dd_bpm8Y (ppb)



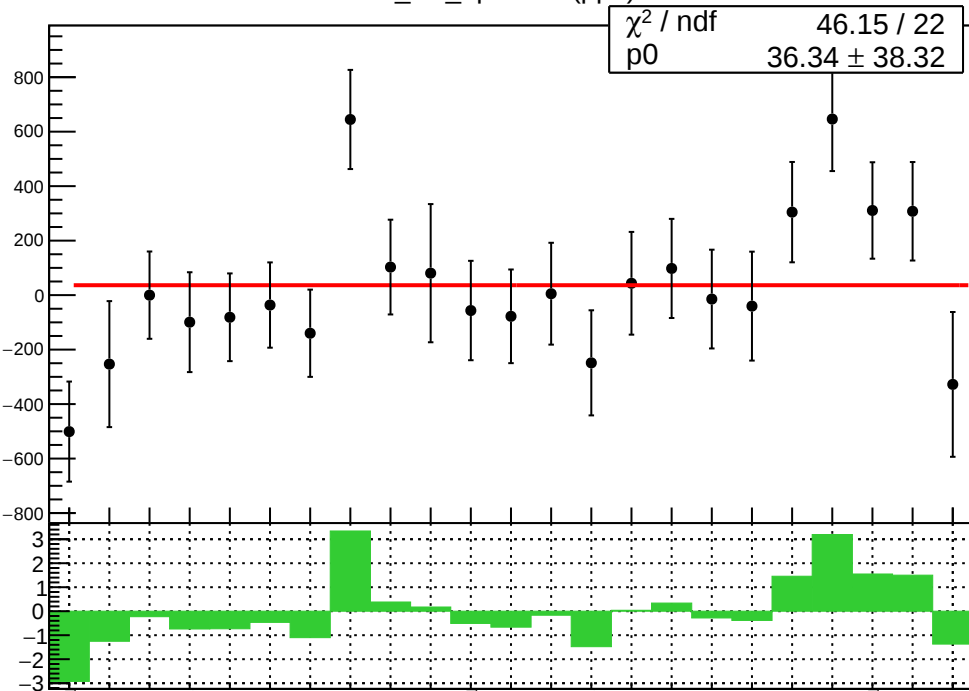
1D pull distribution



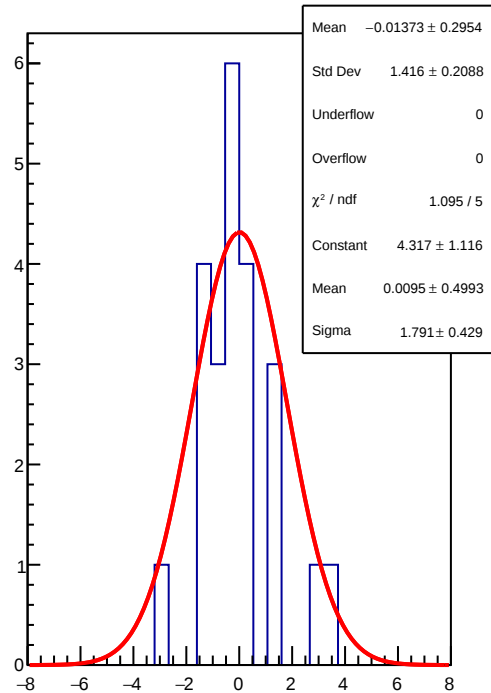
corr_us_dd_bpm8Y RMS (ppm)



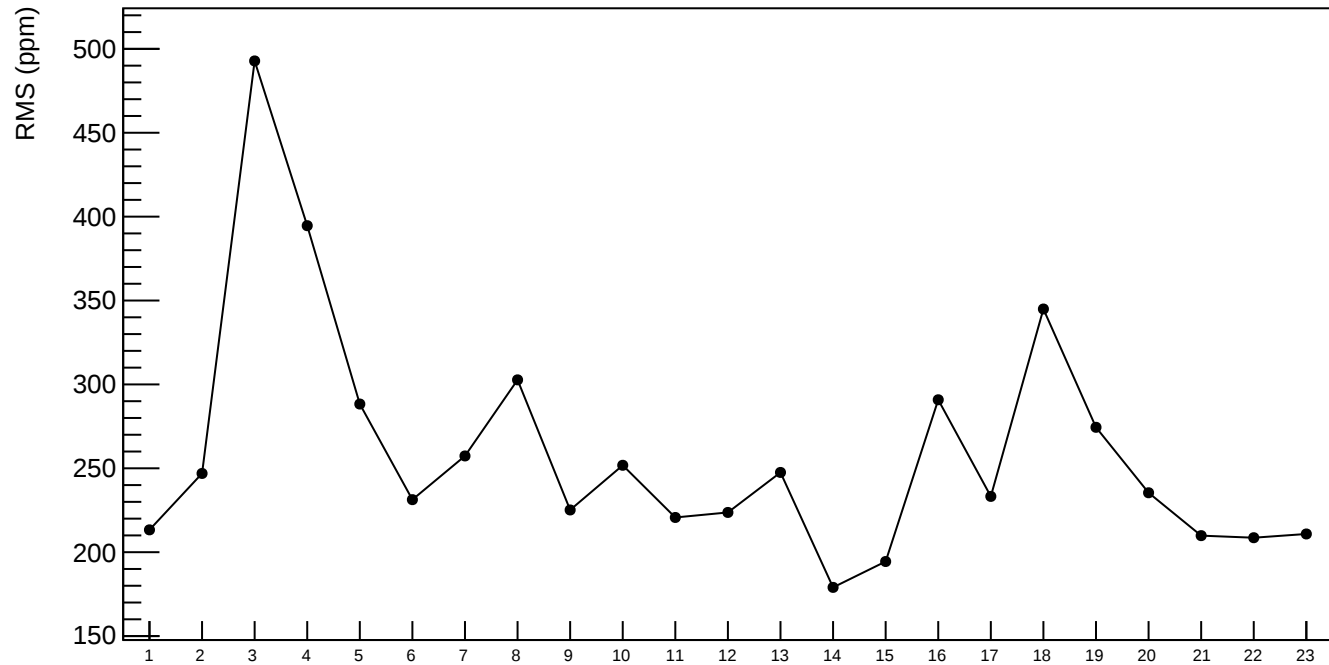
corr_usl_bpm4eX (ppb)



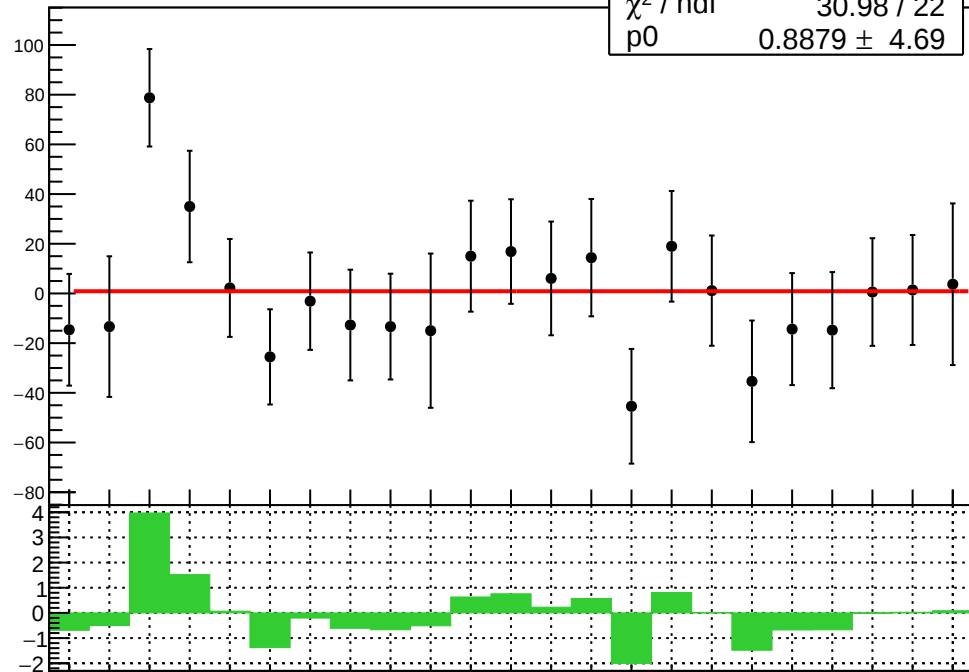
1D pull distribution



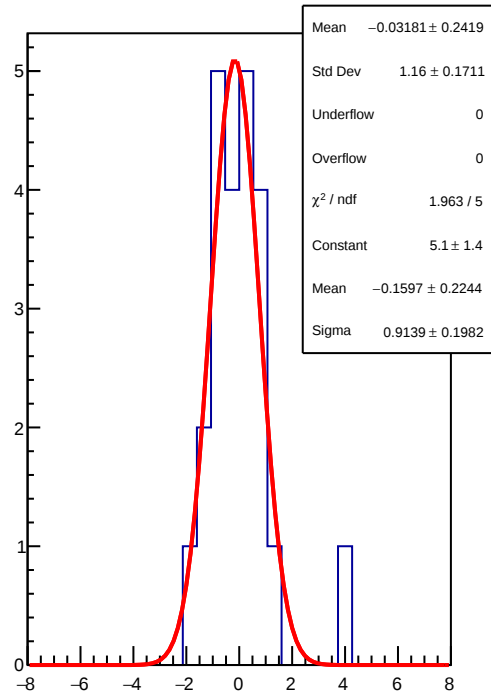
corr_usl_bpm4eX RMS (ppm)



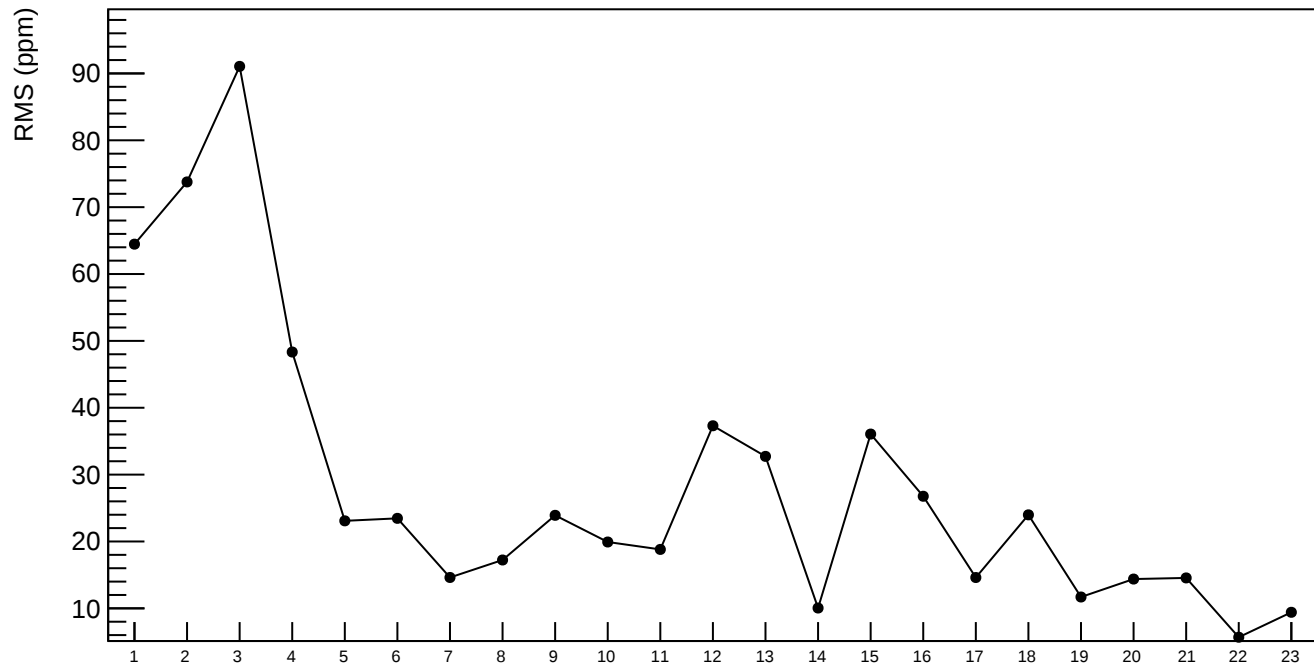
corr_usl_bpm4eY (ppb)

 χ^2 / ndf 30.98 / 22
p0 0.8879 ± 4.69 

1D pull distribution



corr_usl_bpm4eY RMS (ppm)

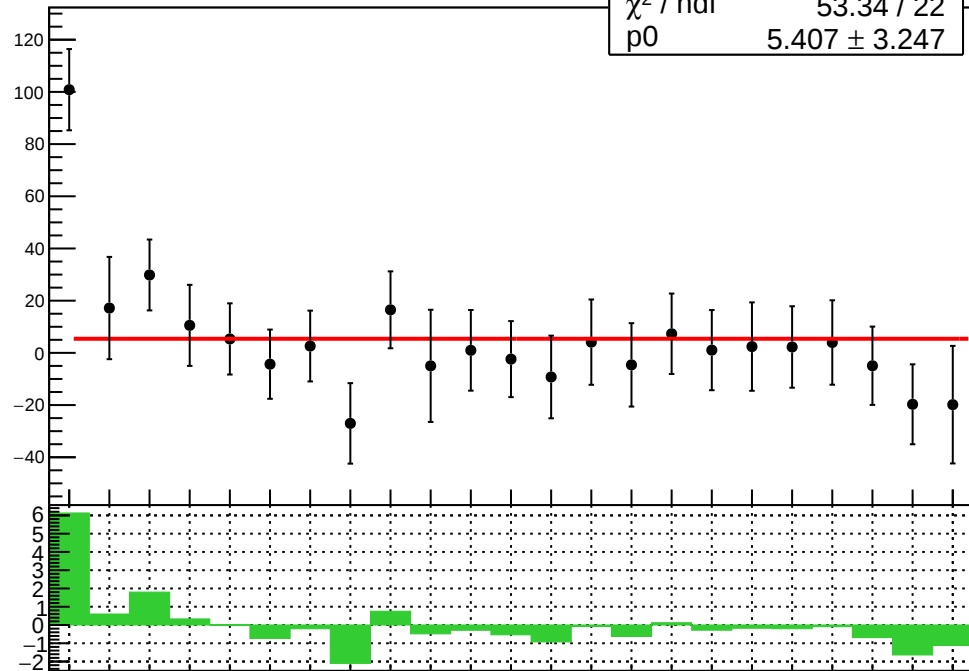


corr_usl_bpm4aX (ppb)

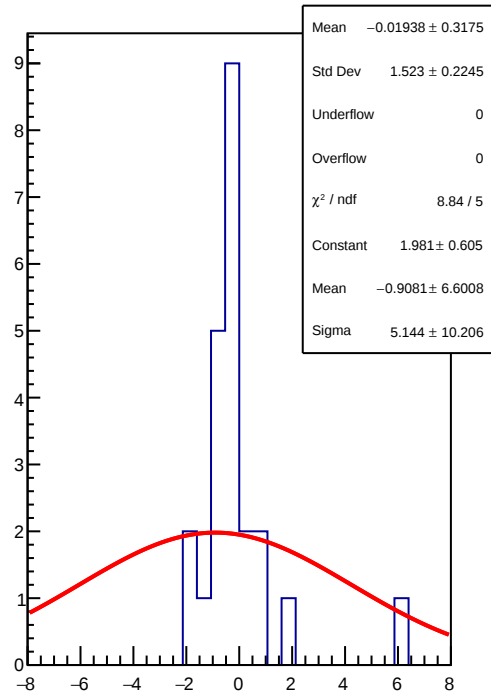
 χ^2 / ndf

53.34 / 22

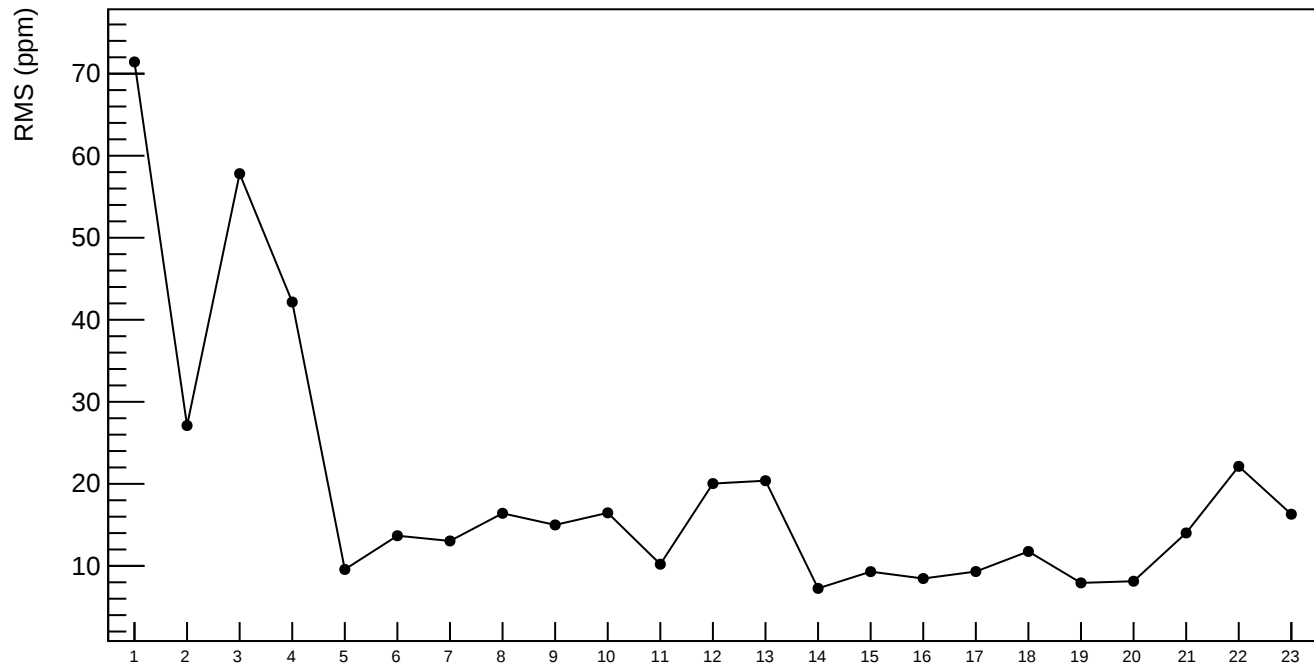
p0

 5.407 ± 3.247 

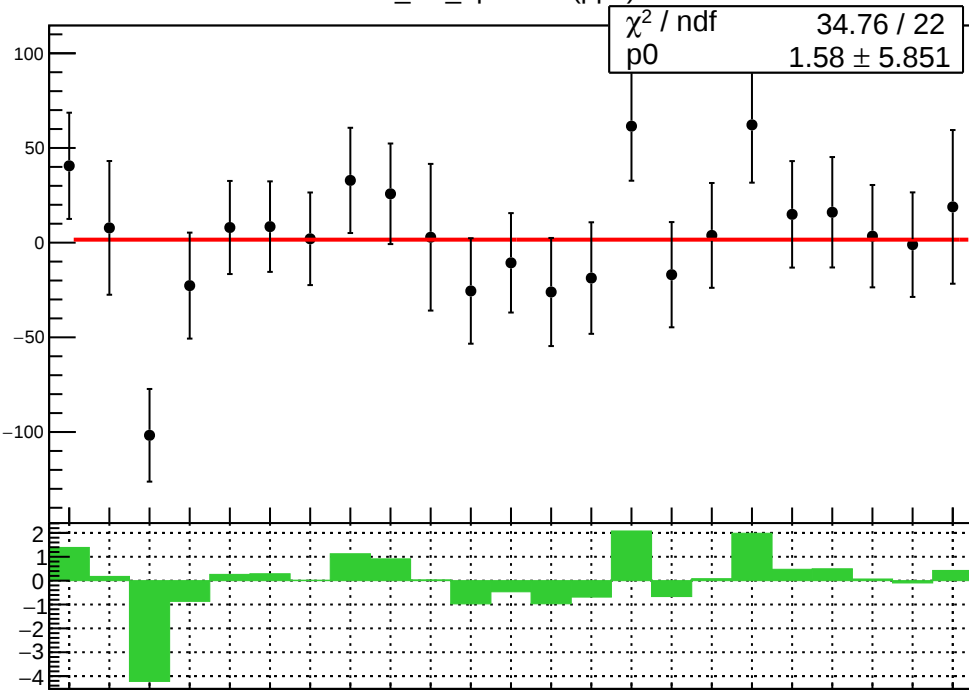
1D pull distribution



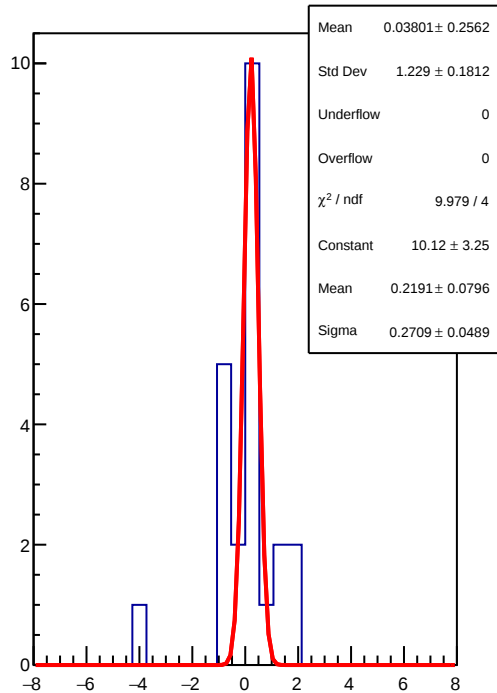
corr_usl_bpm4aX RMS (ppm)



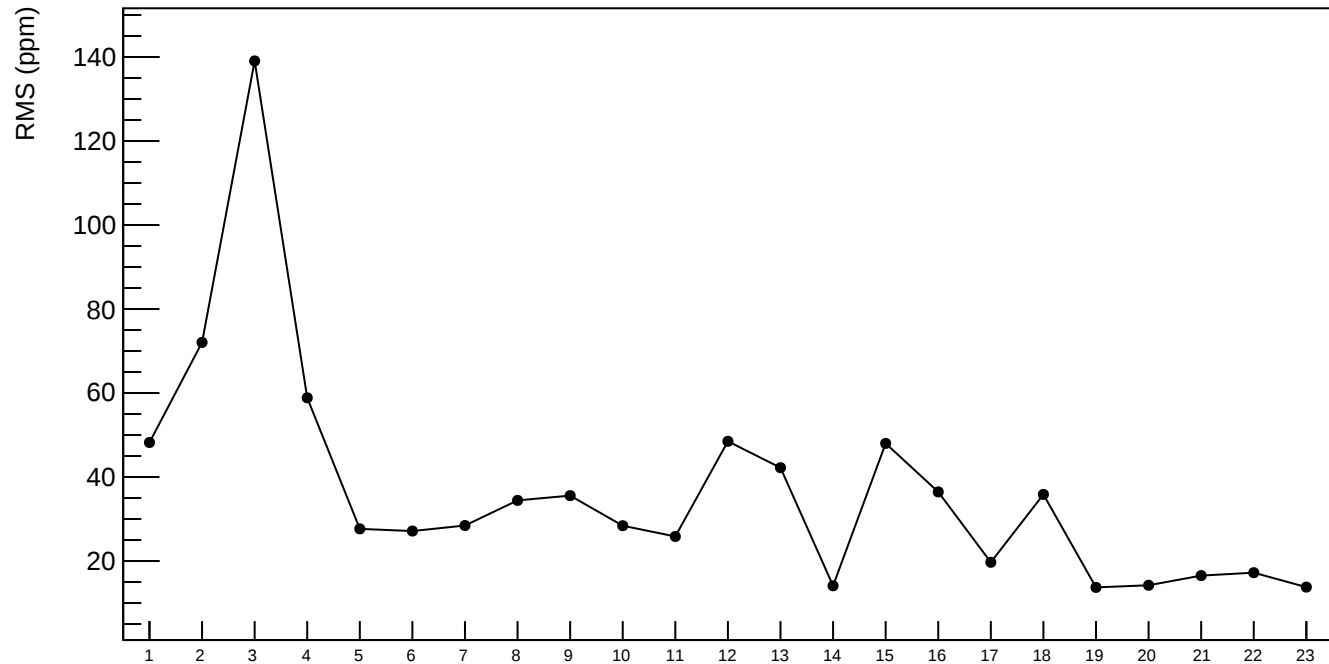
corr_usl_bpm4aY (ppb)



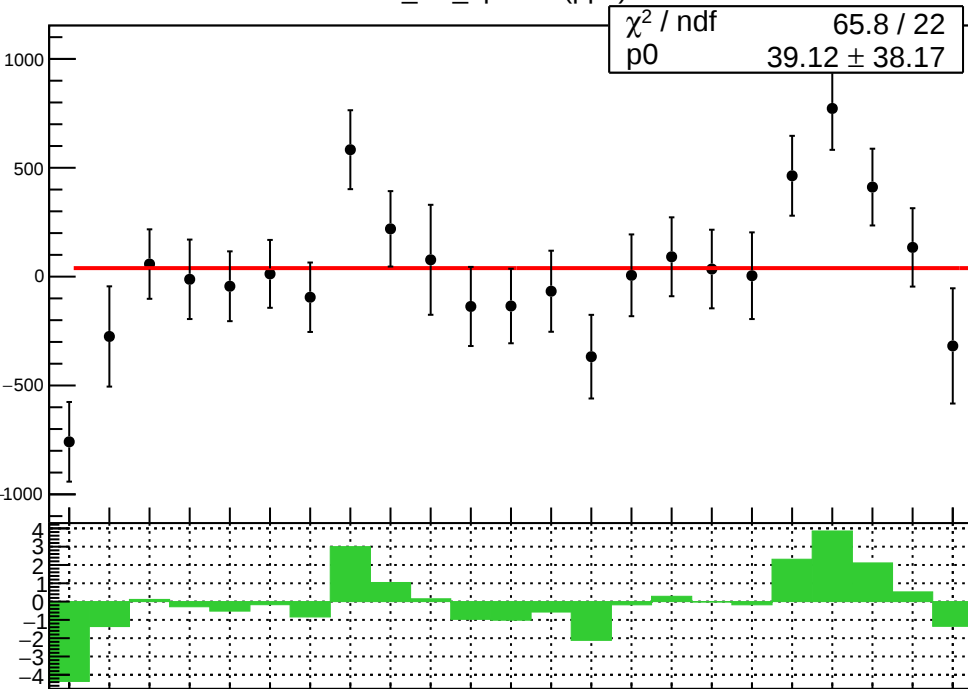
1D pull distribution



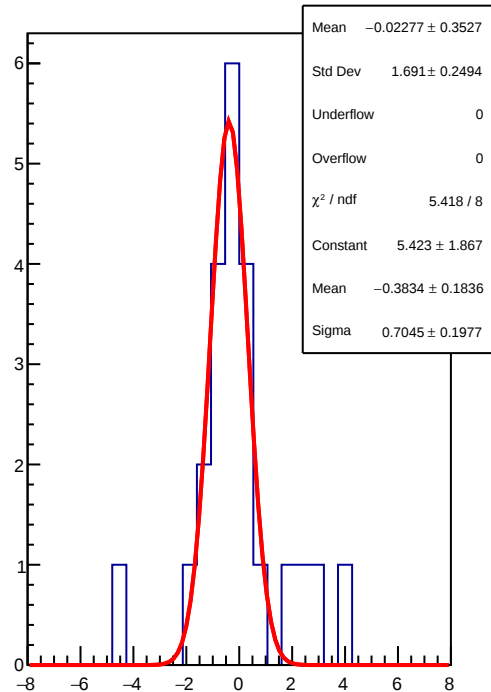
corr_usl_bpm4aY RMS (ppm)



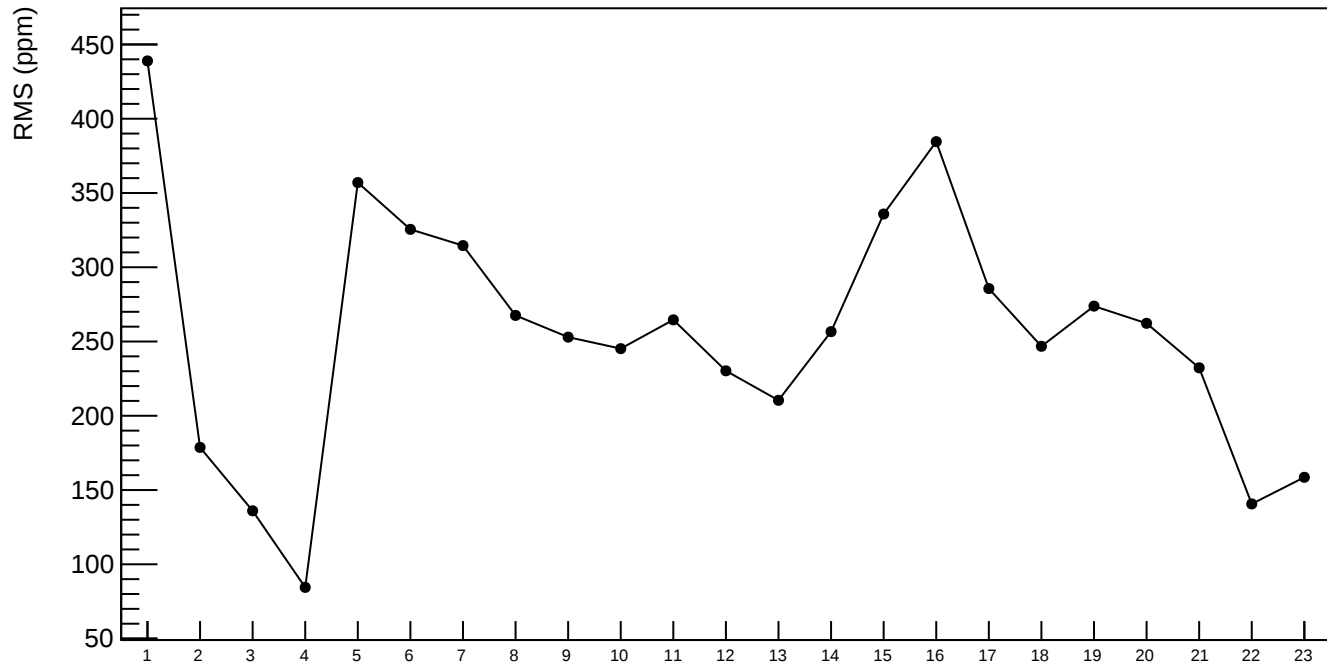
corr_usl_bpm1X (ppb)



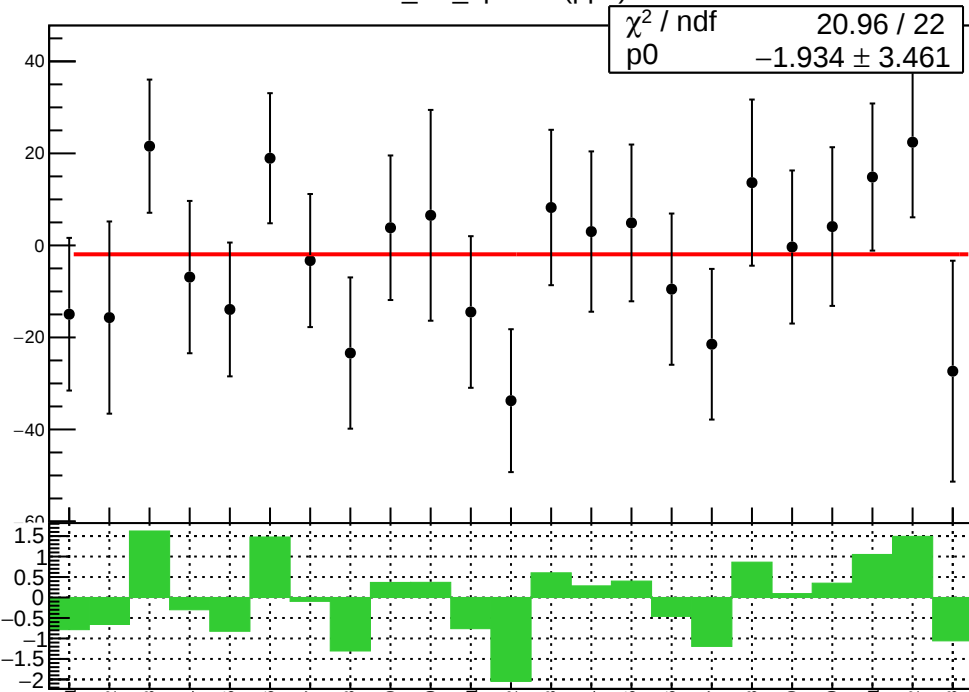
1D pull distribution



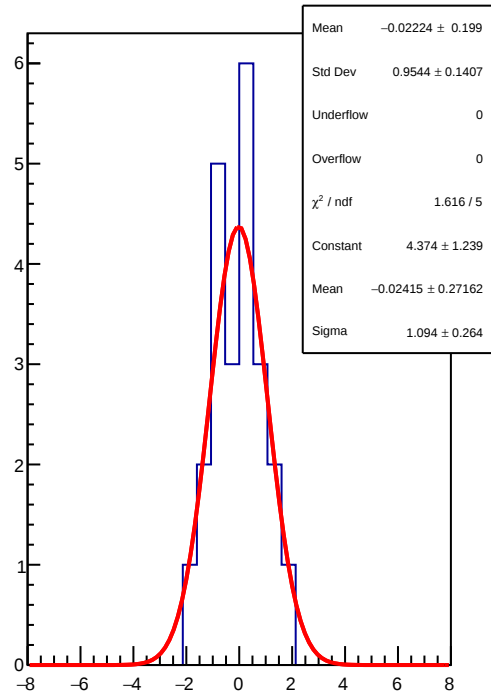
corr_usl_bpm1X RMS (ppm)



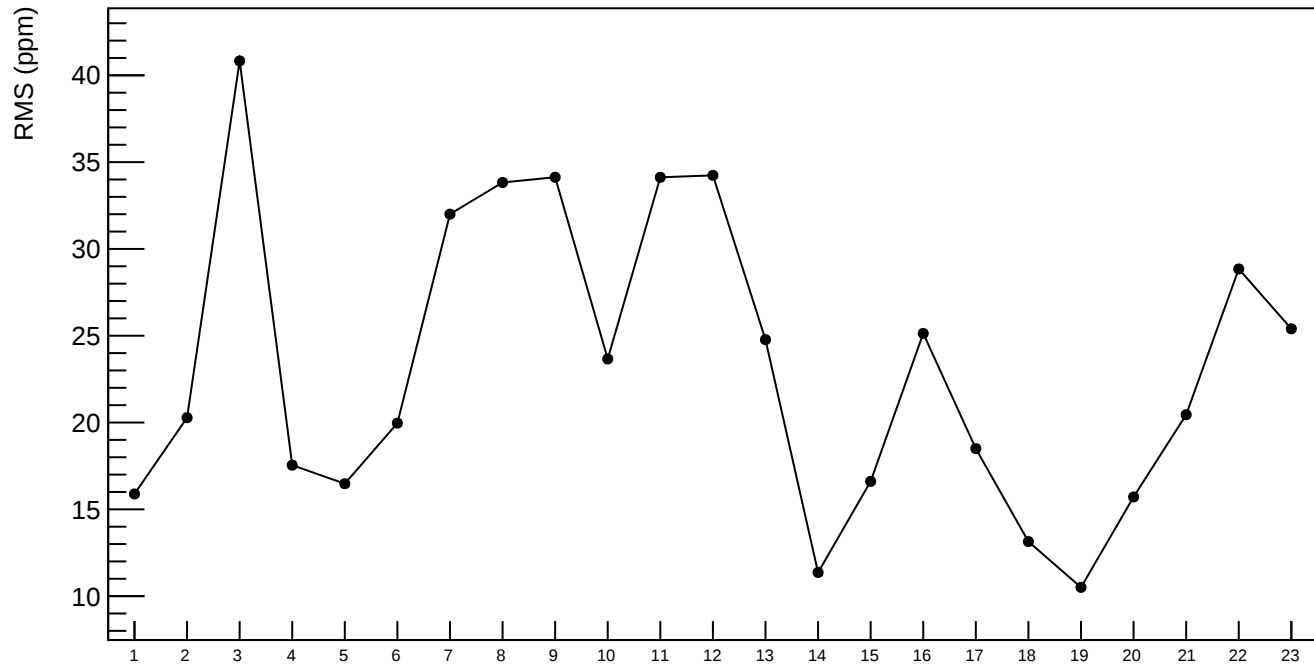
corr_usl_bpm1Y (ppb)



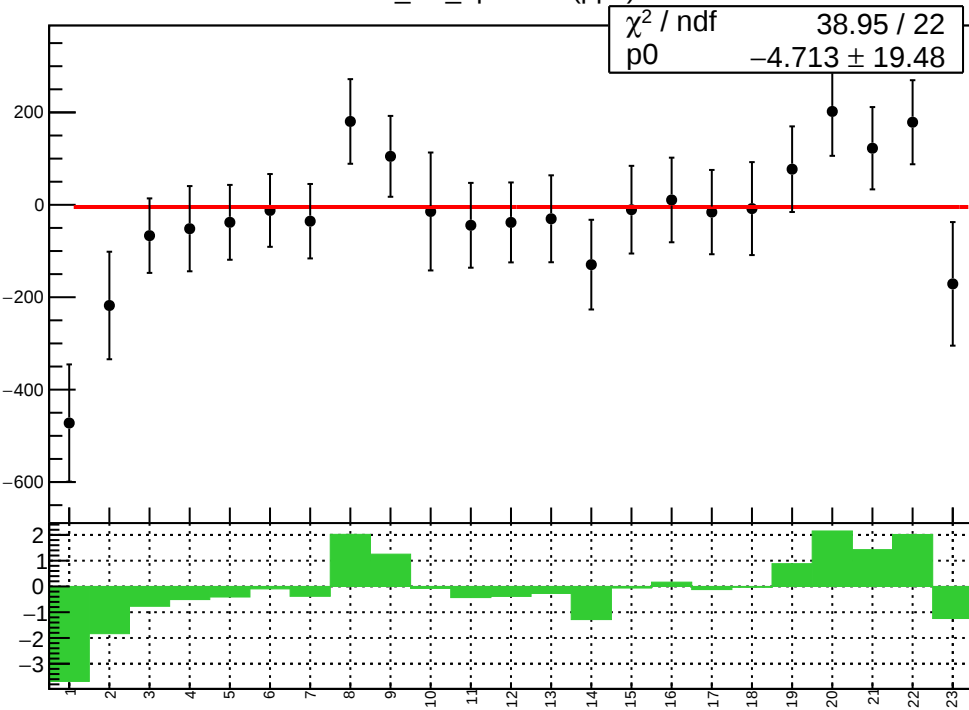
1D pull distribution



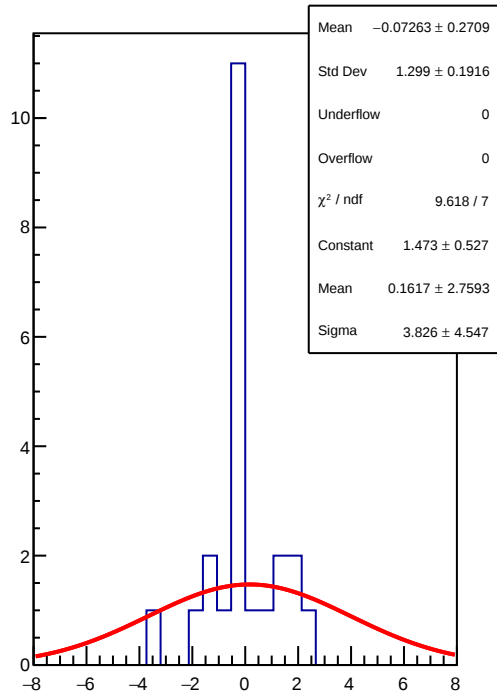
corr_usl_bpm1Y RMS (ppm)



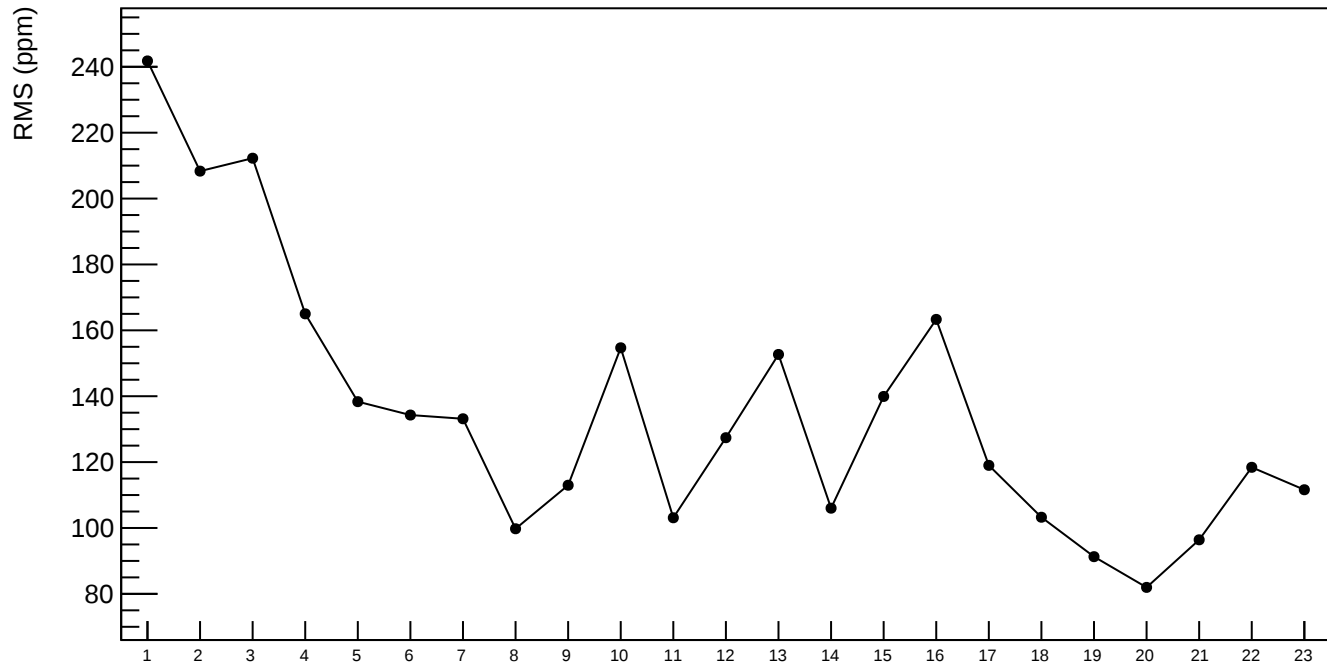
corr_usl_bpm16X (ppb)



1D pull distribution



corr_usl_bpm16X RMS (ppm)

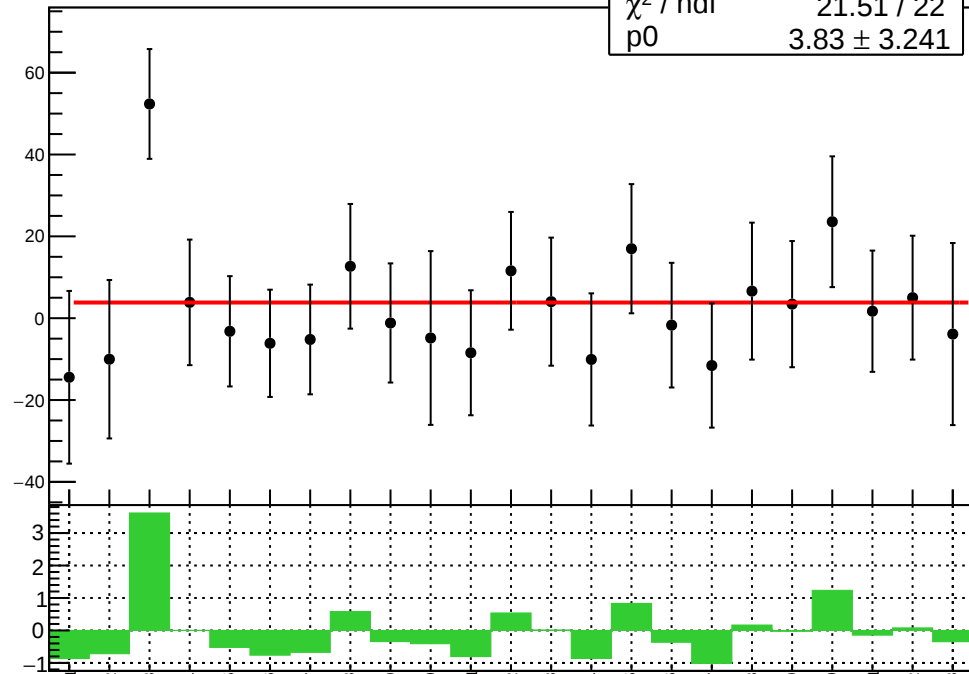


corr_usl_bpm16Y (ppb)

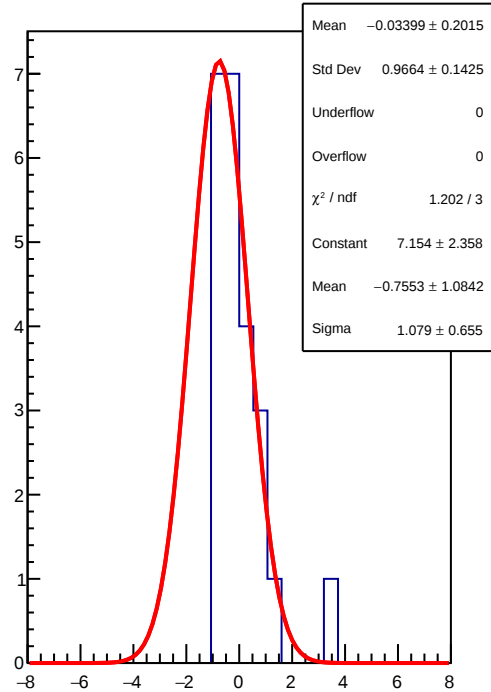
 χ^2 / ndf

21.51 / 22

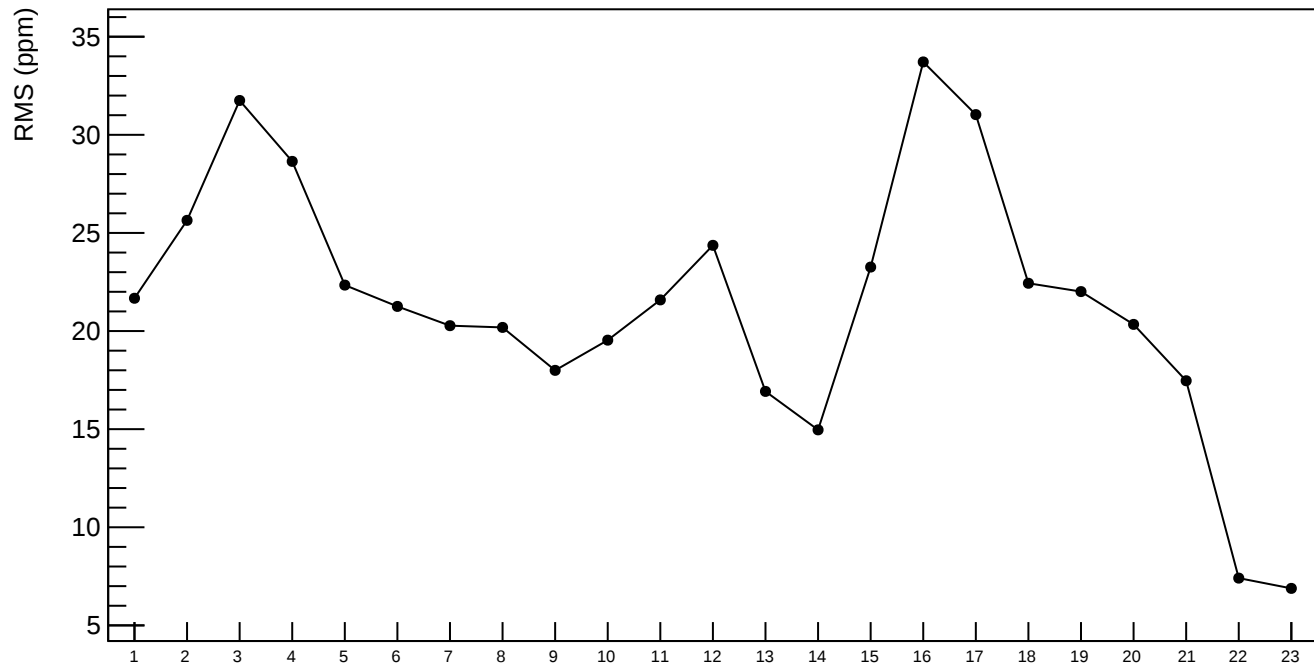
p0

 3.83 ± 3.241 

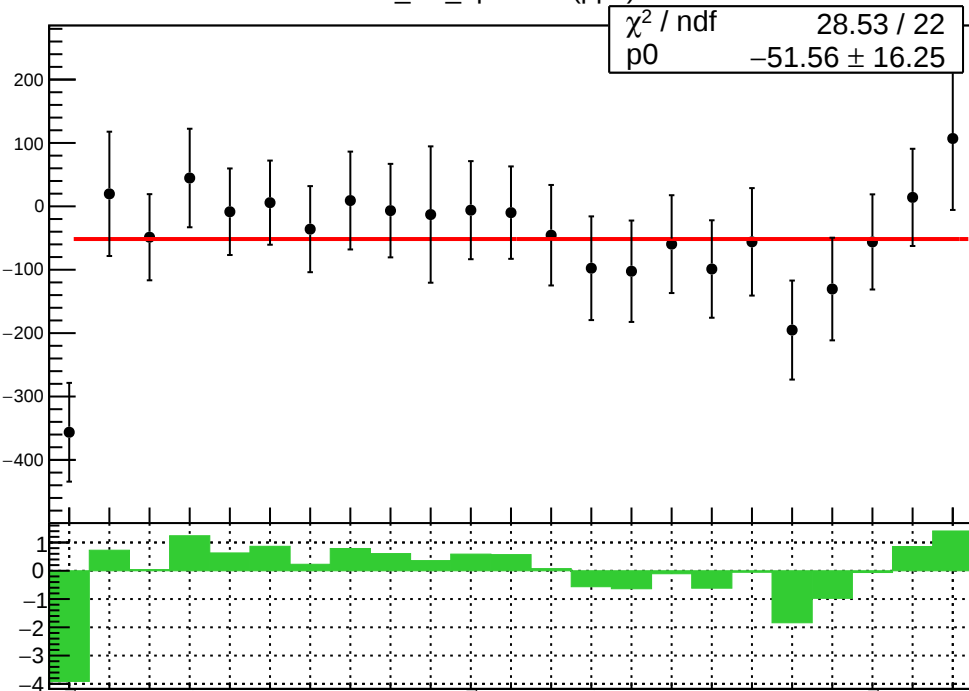
1D pull distribution



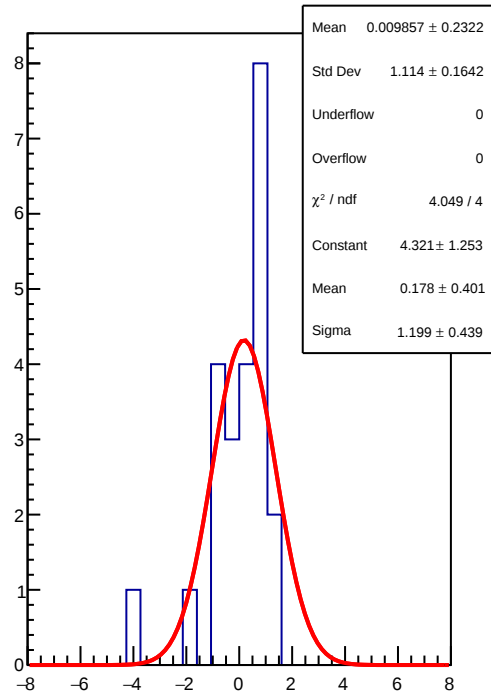
corr_usl_bpm16Y RMS (ppm)



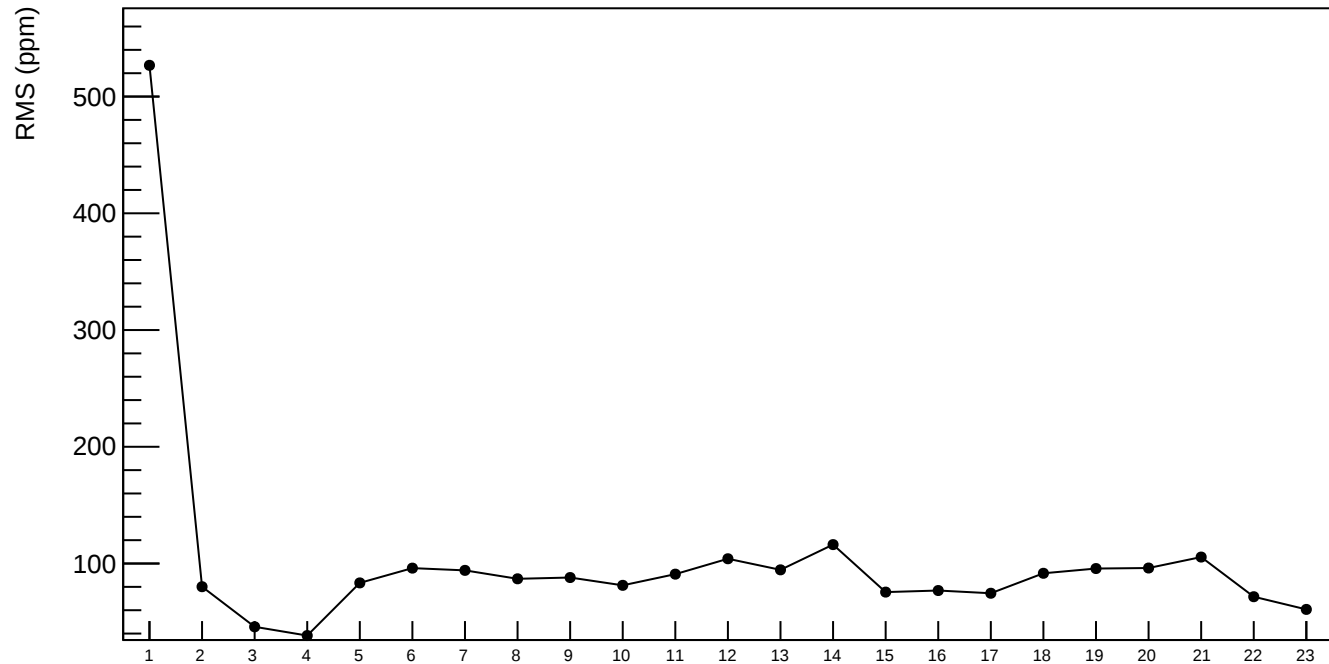
corr_usl_bpm12X (ppb)



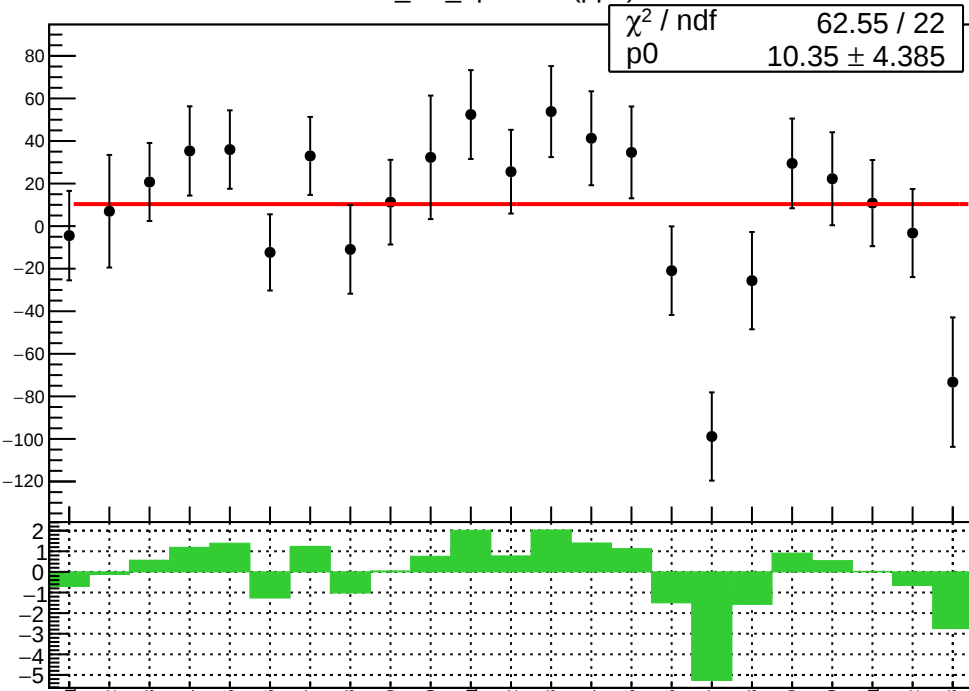
1D pull distribution



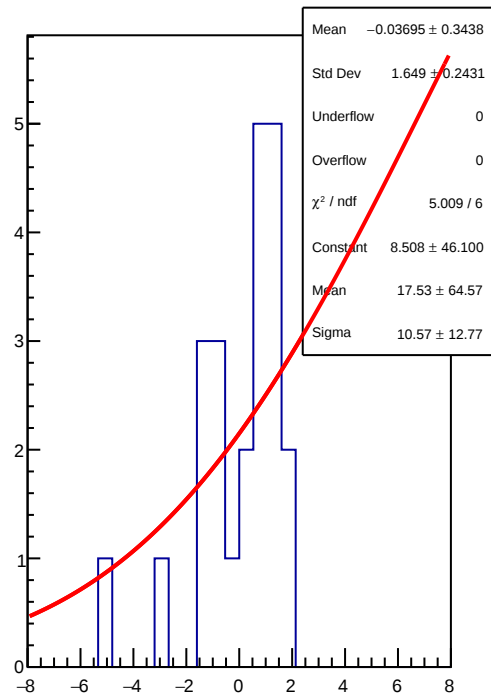
corr_usl_bpm12X RMS (ppm)



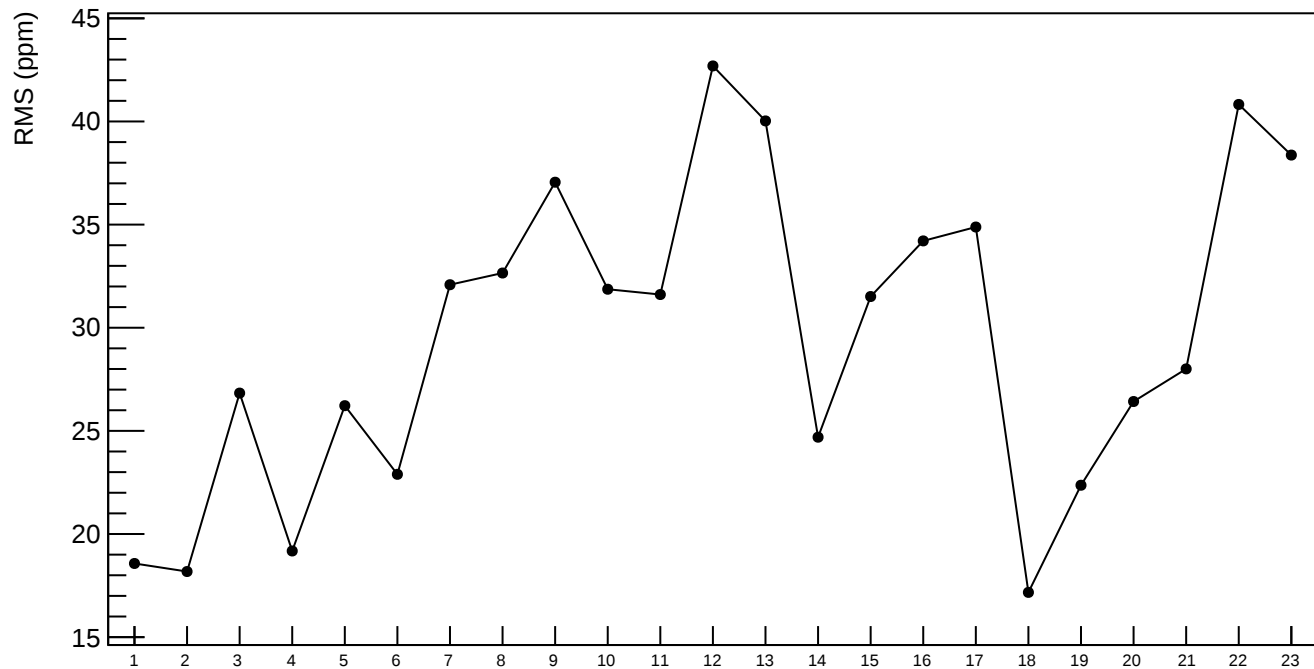
corr_usl_bpm12Y (ppb)



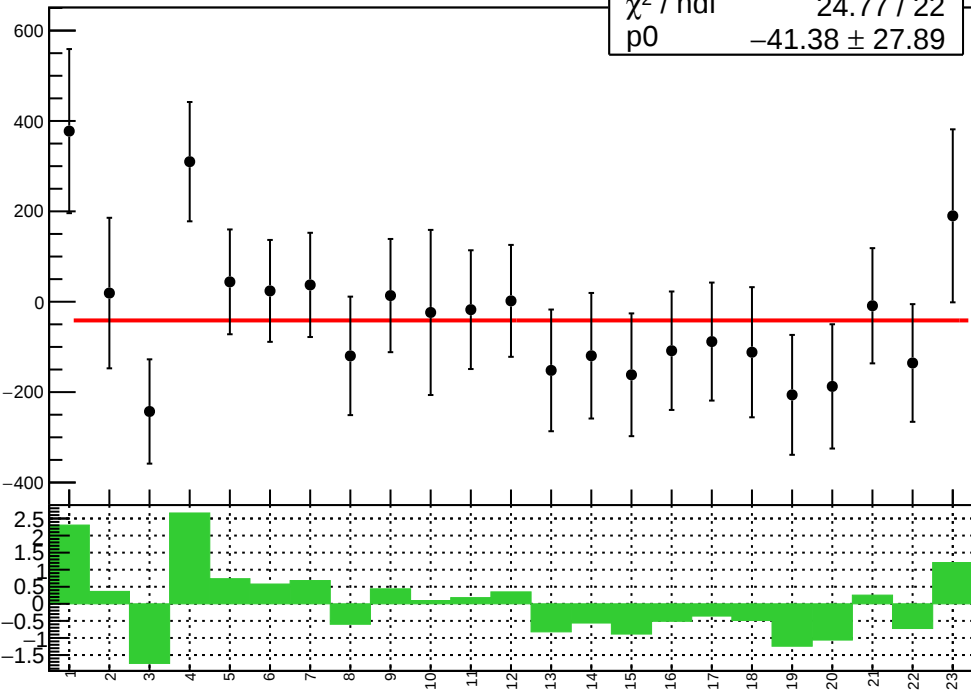
1D pull distribution



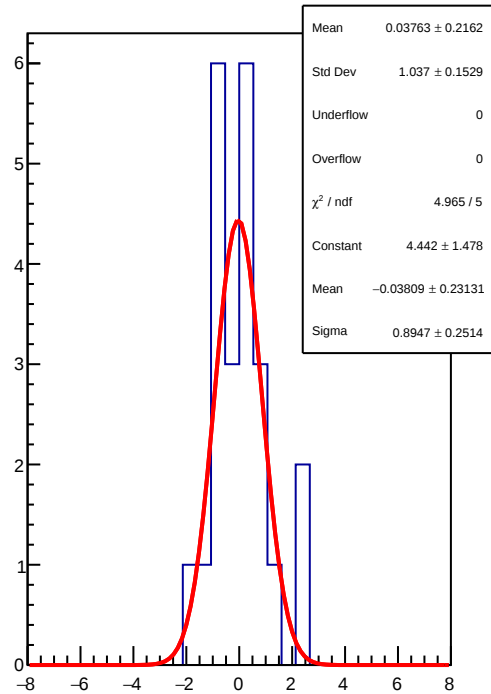
corr_usl_bpm12Y RMS (ppm)



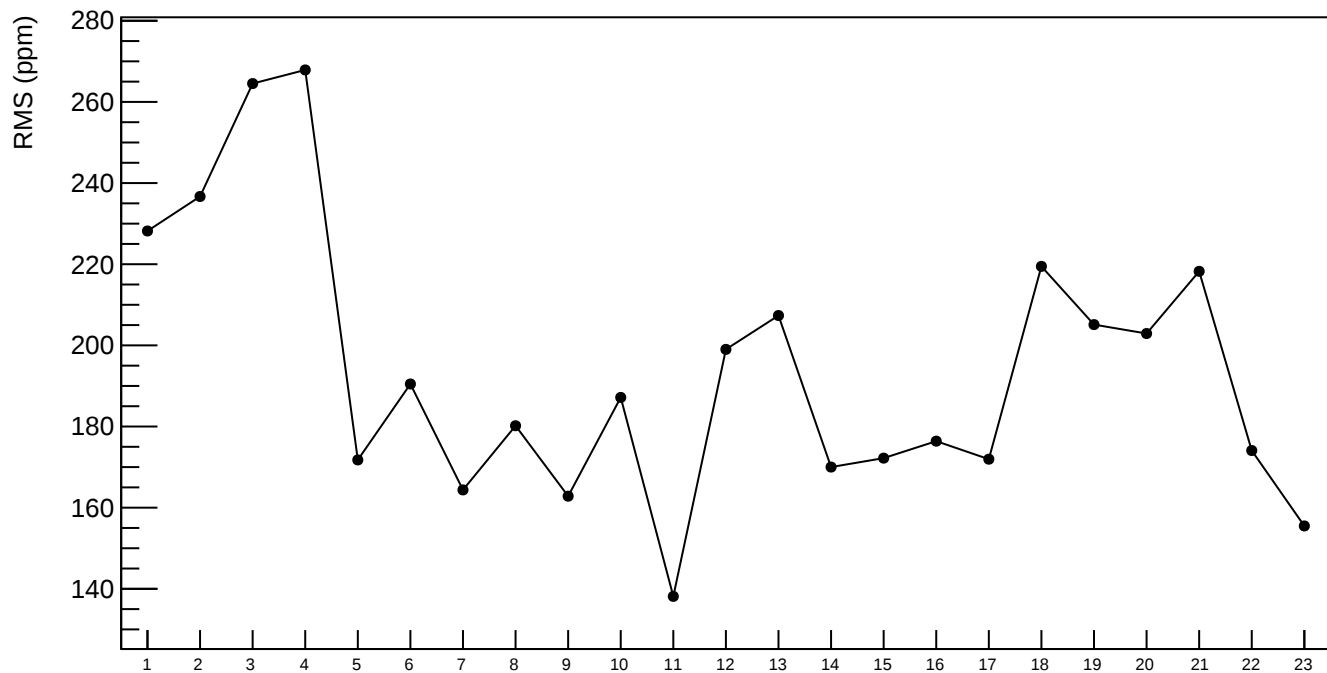
corr_usl_bpm11X (ppb)

 χ^2 / nfd 24.77 / 22
p0 -41.38 ± 27.89 

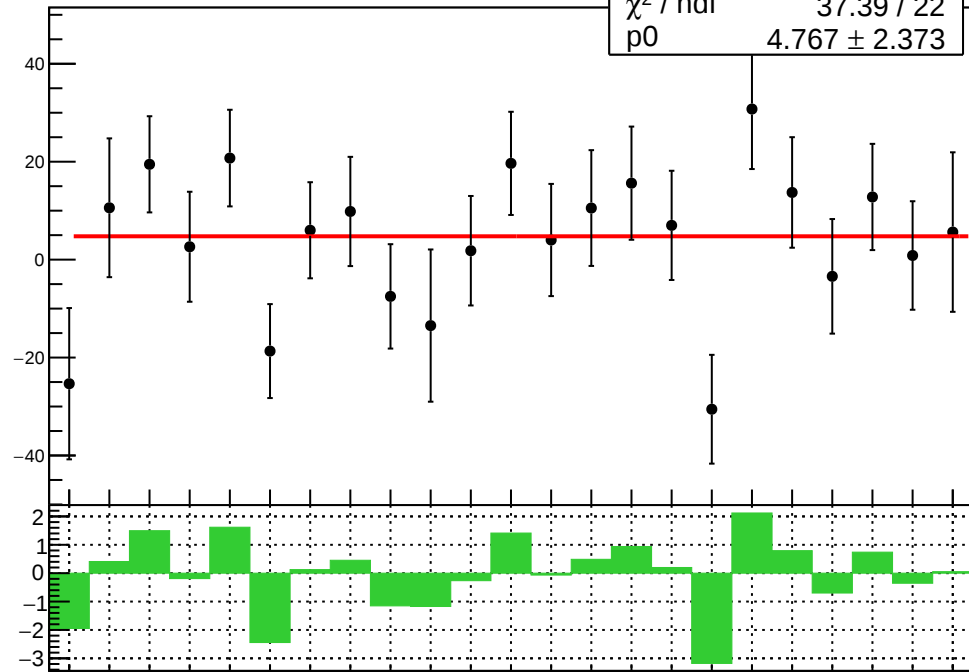
1D pull distribution



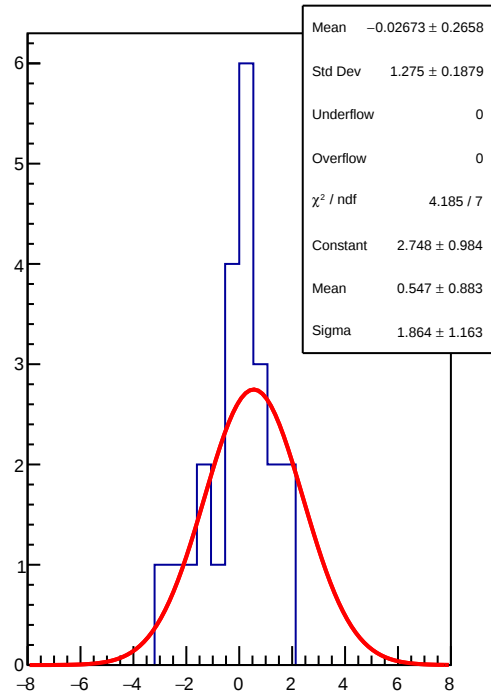
corr_usl_bpm11X RMS (ppm)



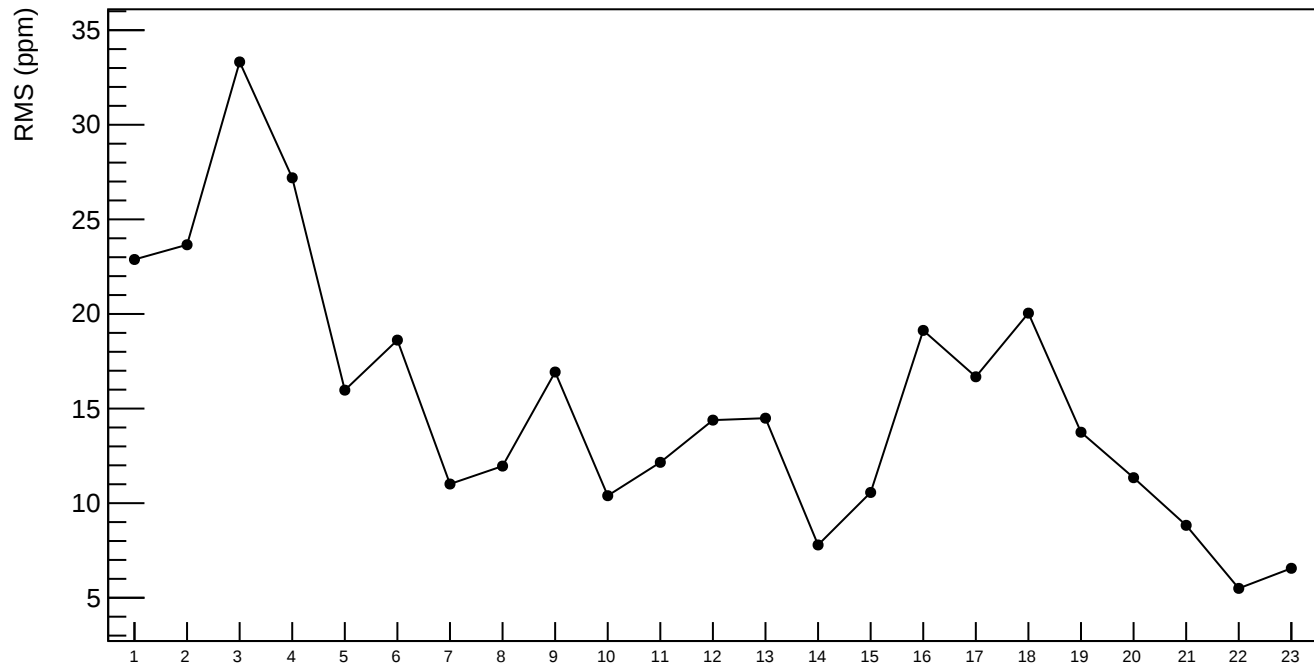
corr_usl_bpm11Y (ppb)

 χ^2 / nfd 37.39 / 22
p0 4.767 ± 2.373 

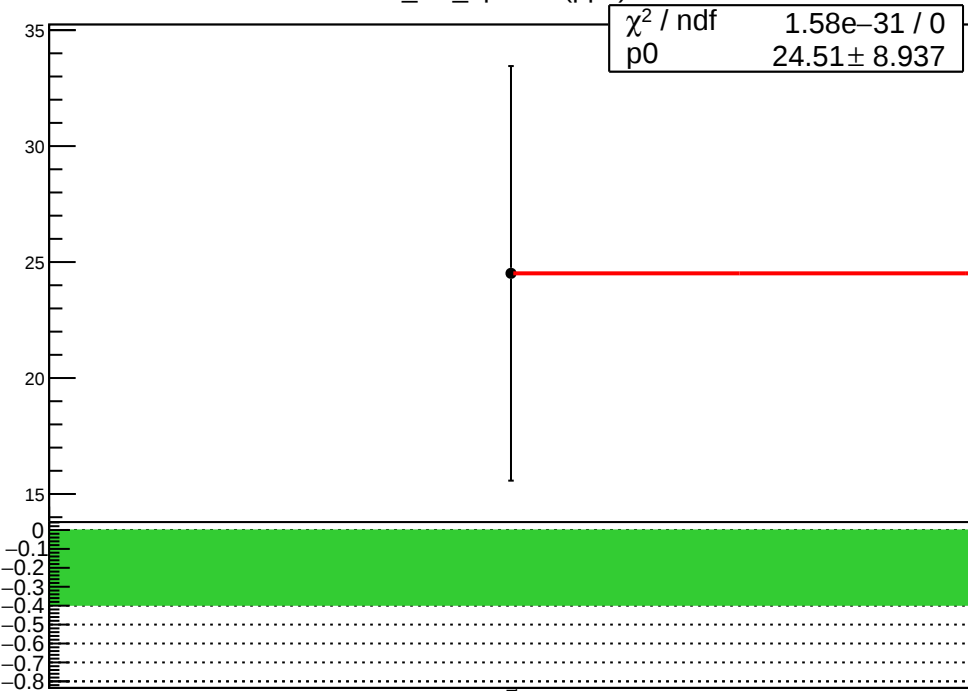
1D pull distribution



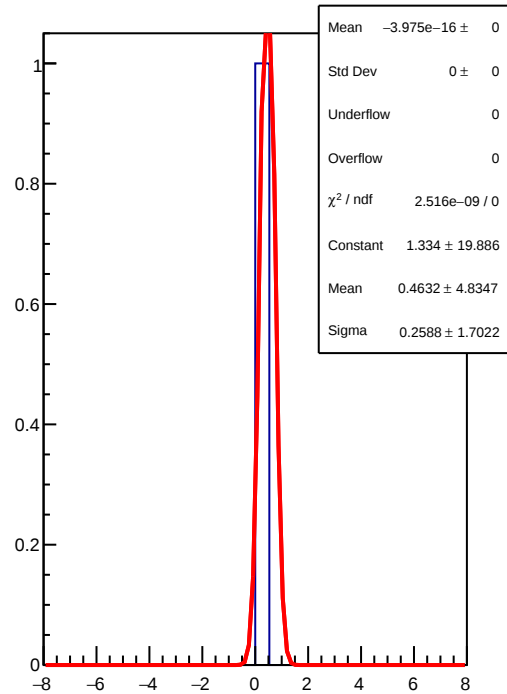
corr_usl_bpm11Y RMS (ppm)



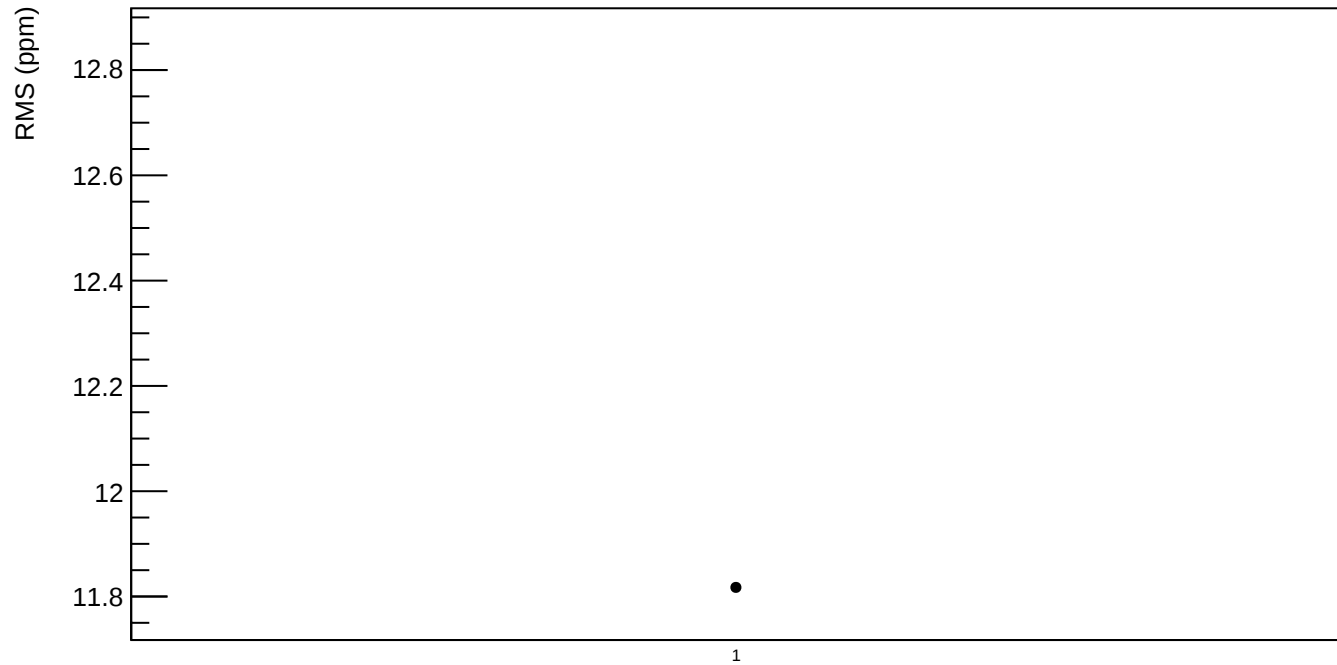
corr_usl_bpm8X (ppb)



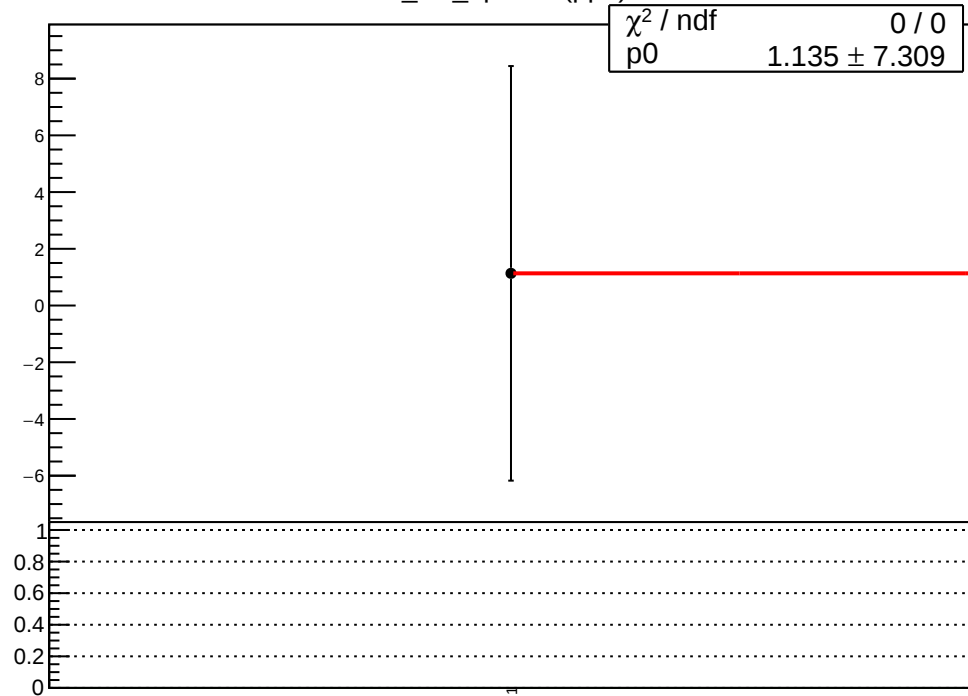
1D pull distribution



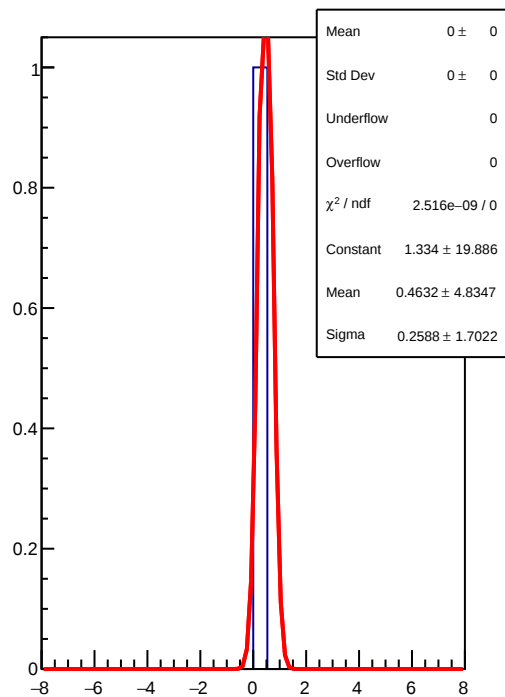
corr_usl_bpm8X RMS (ppm)



corr_usl_bpm8Y (ppb)



1D pull distribution



corr_usl_bpm8Y RMS (ppm)

RMS (ppm)

14.2

14

13.8

13.6

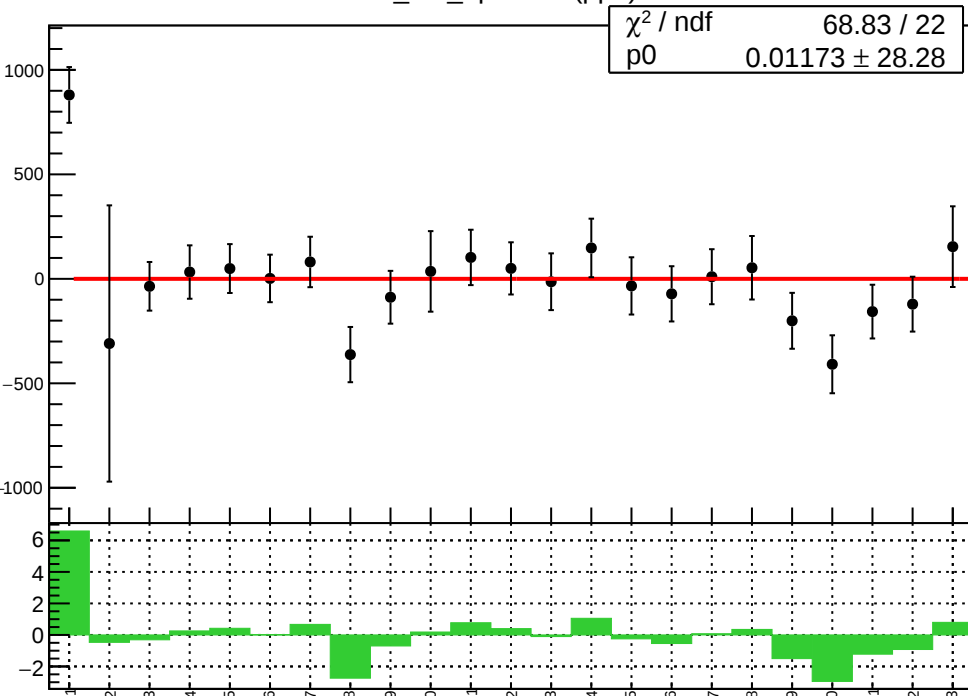
13.4

13.2

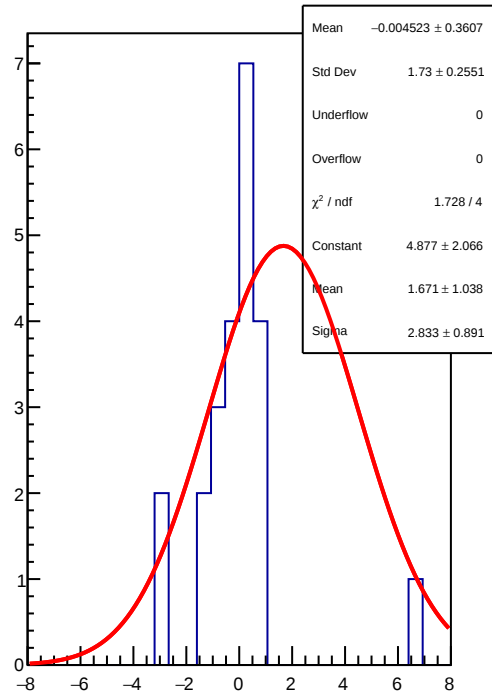
1



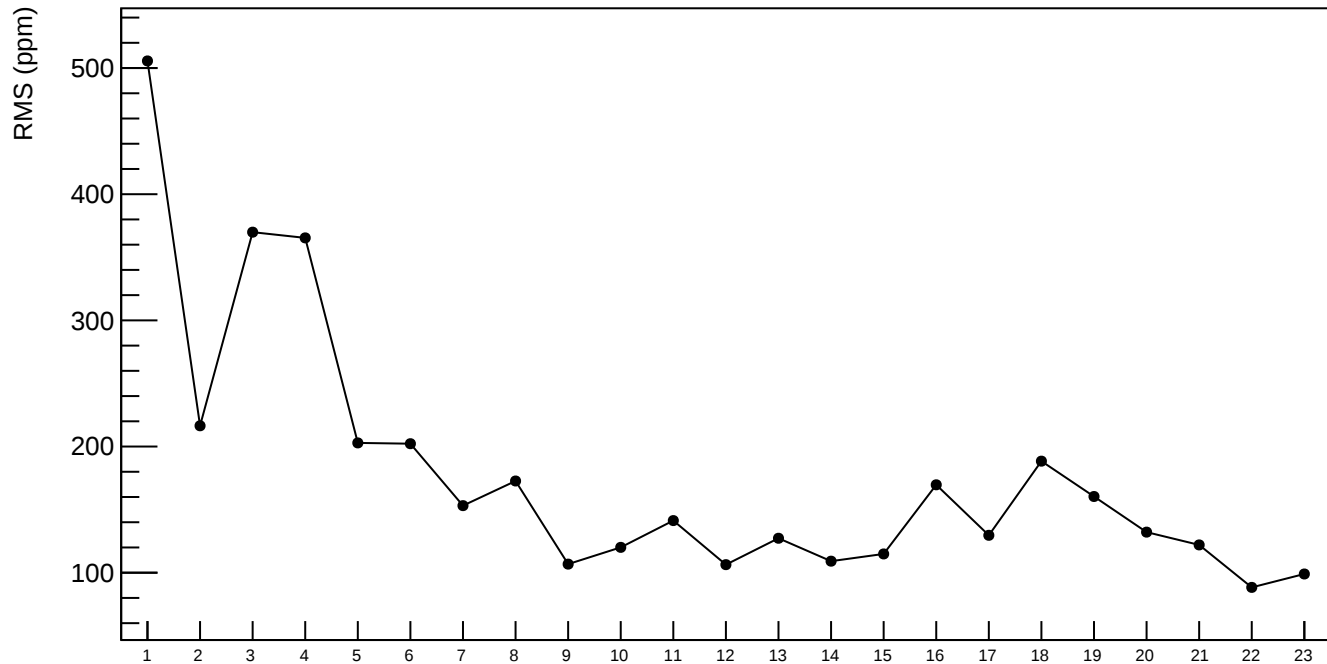
corr_usr_bpm4eX (ppb)



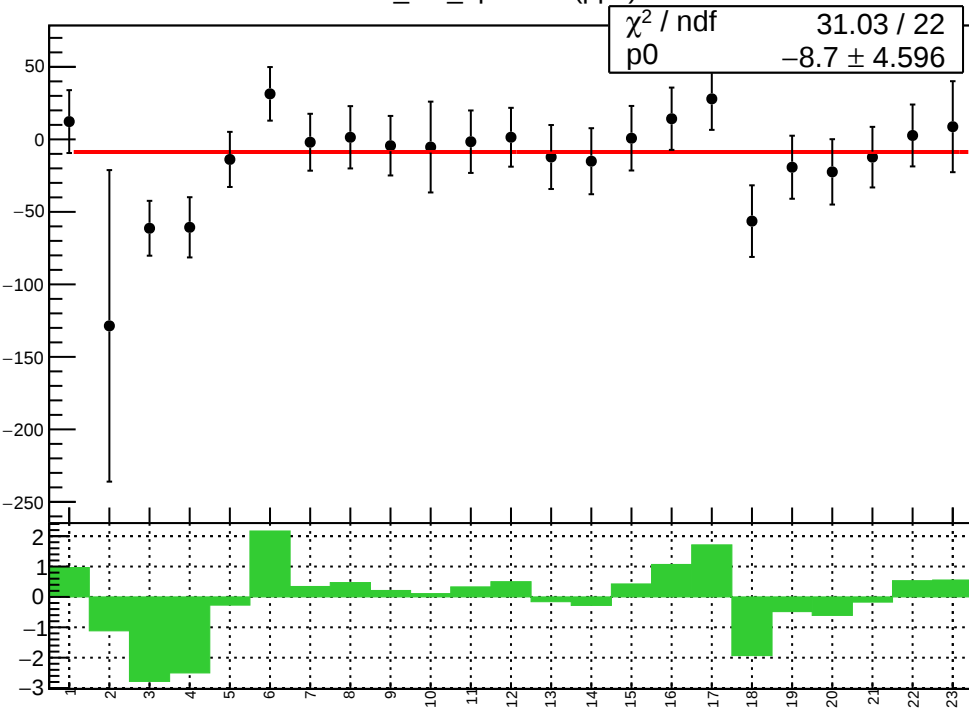
1D pull distribution



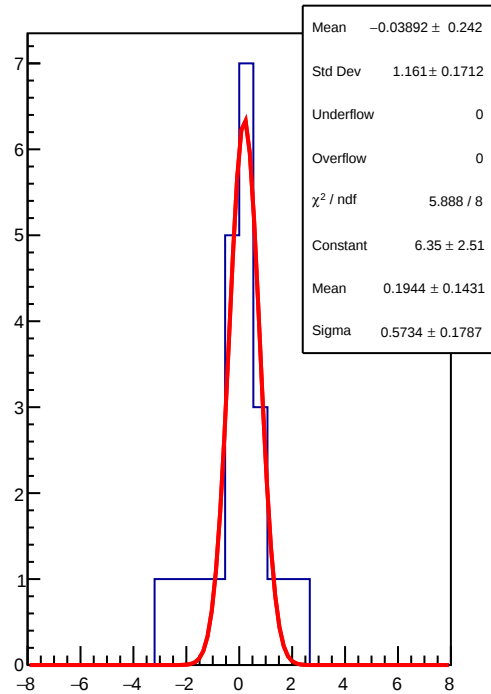
corr_usr_bpm4eX RMS (ppm)



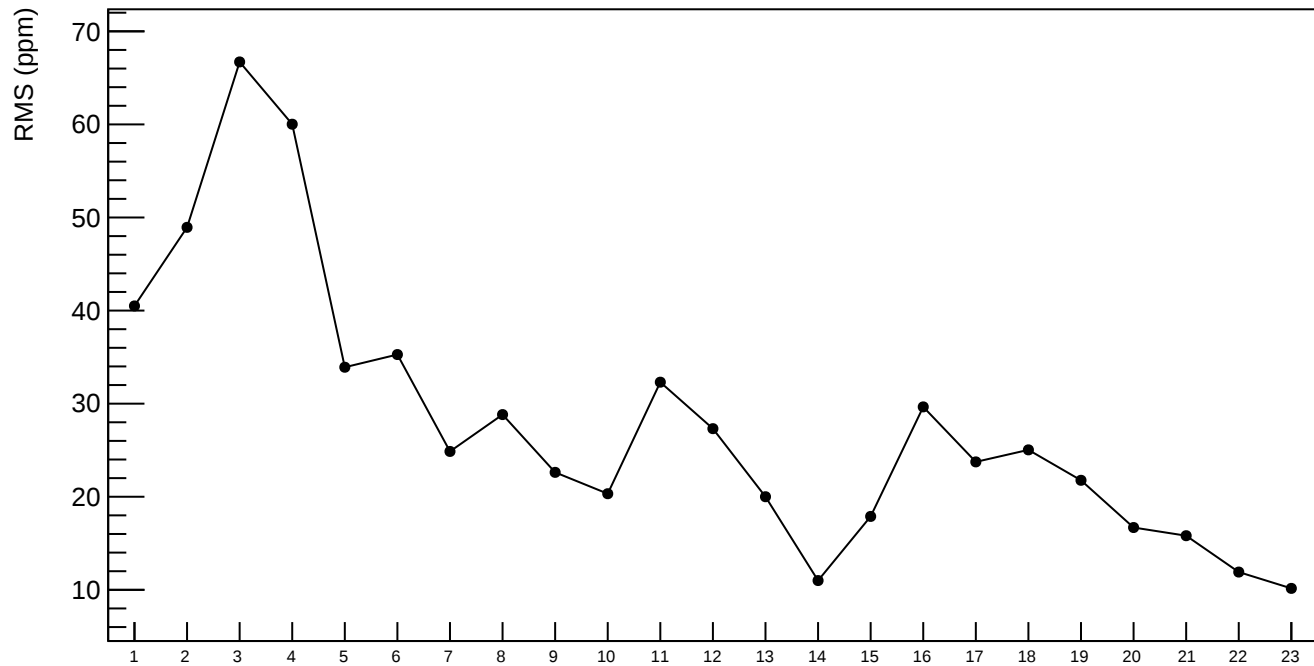
corr_usr_bpm4eY (ppb)



1D pull distribution



corr_usr_bpm4eY RMS (ppm)

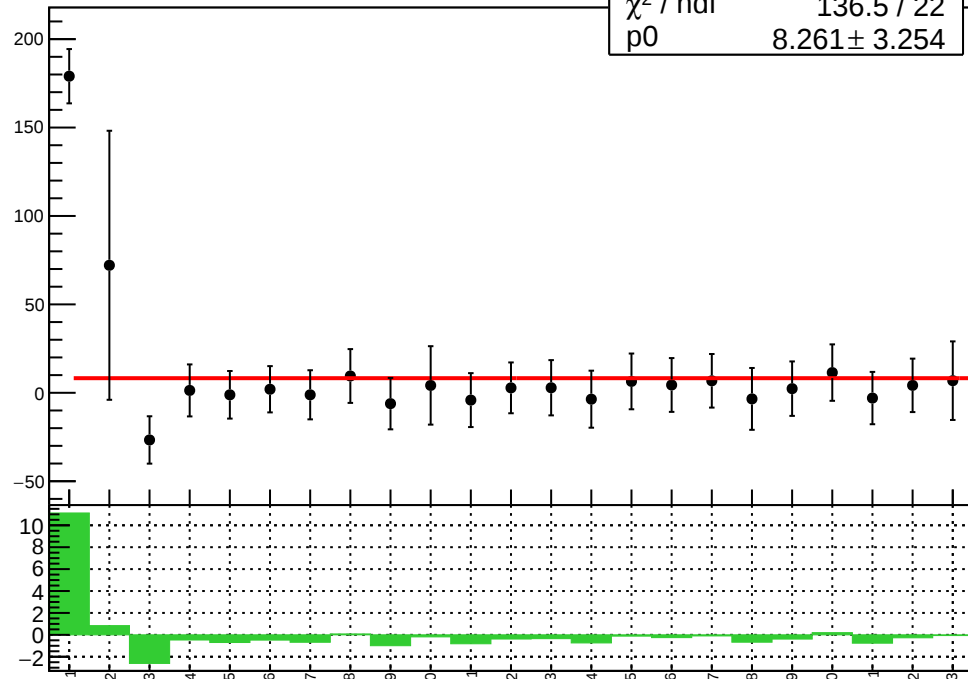


corr_usr_bpm4aX (ppb)

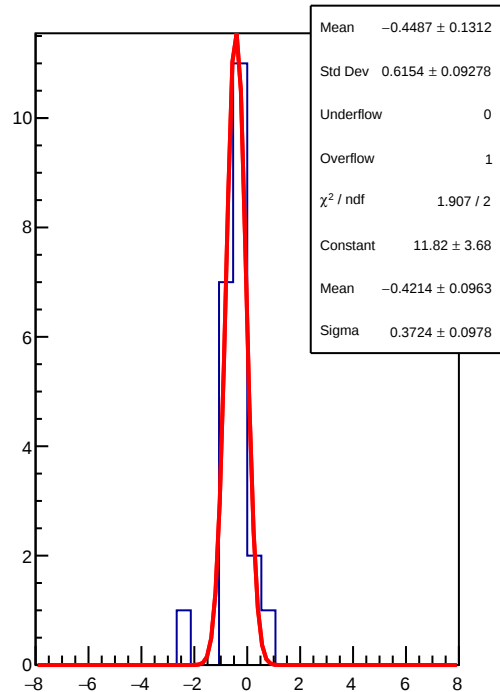
 χ^2 / nfd

136.5 / 22

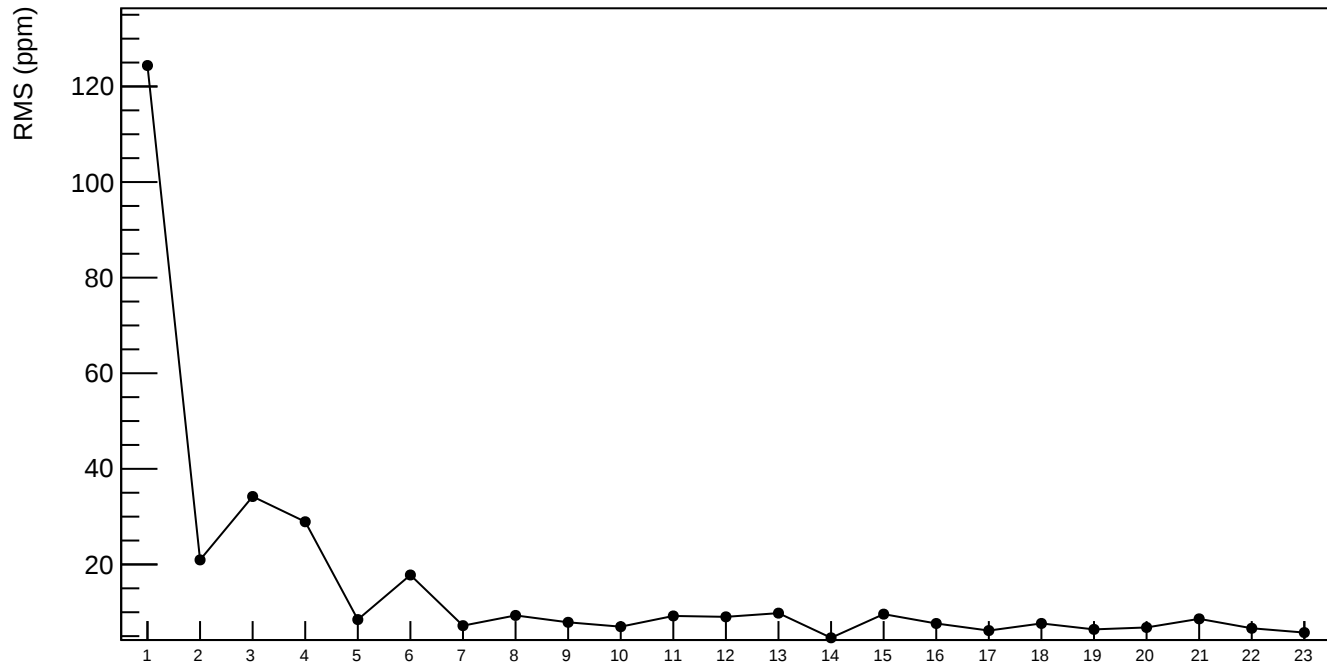
p0

 8.261 ± 3.254 

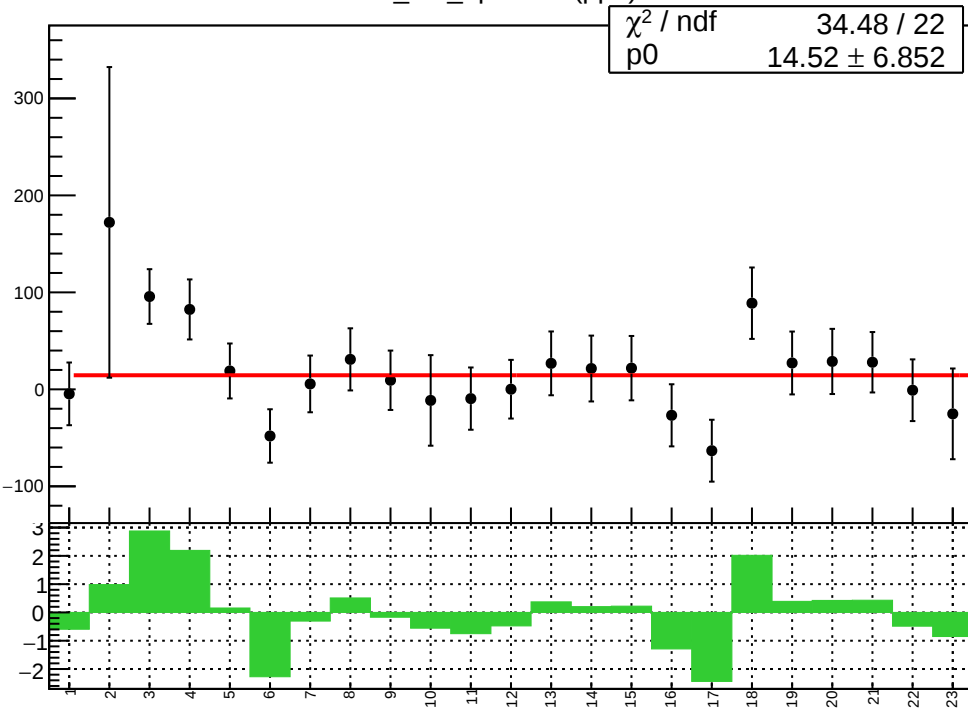
1D pull distribution



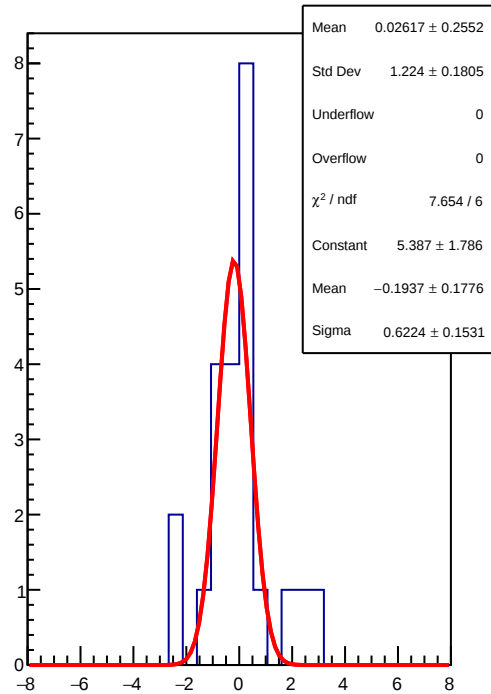
corr_usr_bpm4aX RMS (ppm)



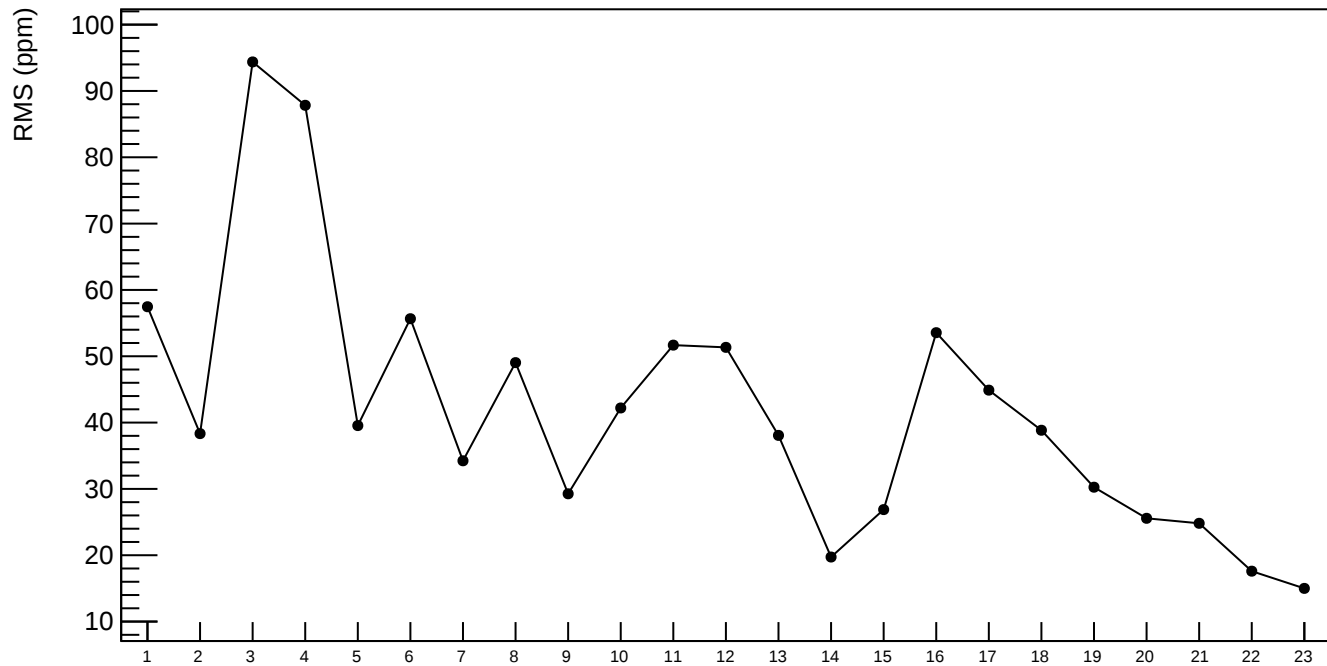
corr_usr_bpm4aY (ppb)



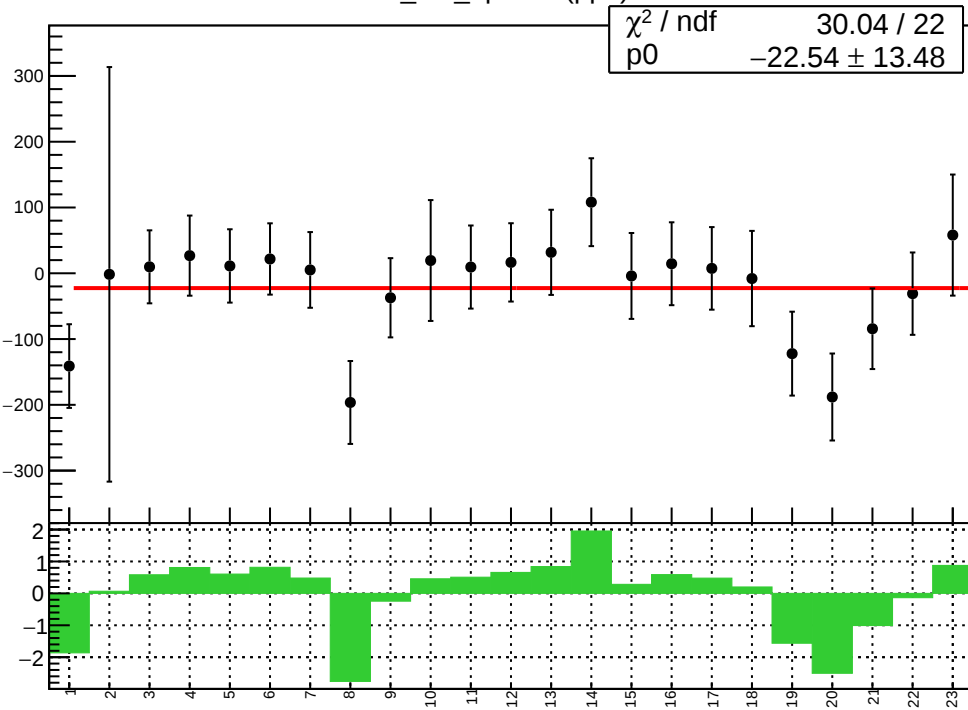
1D pull distribution



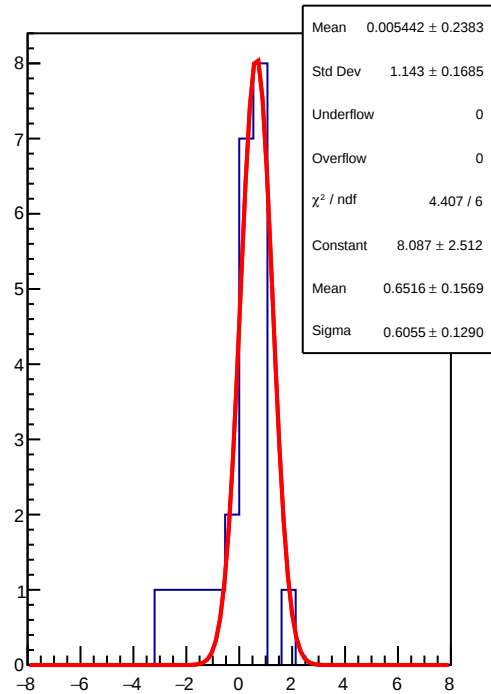
corr_usr_bpm4aY RMS (ppm)



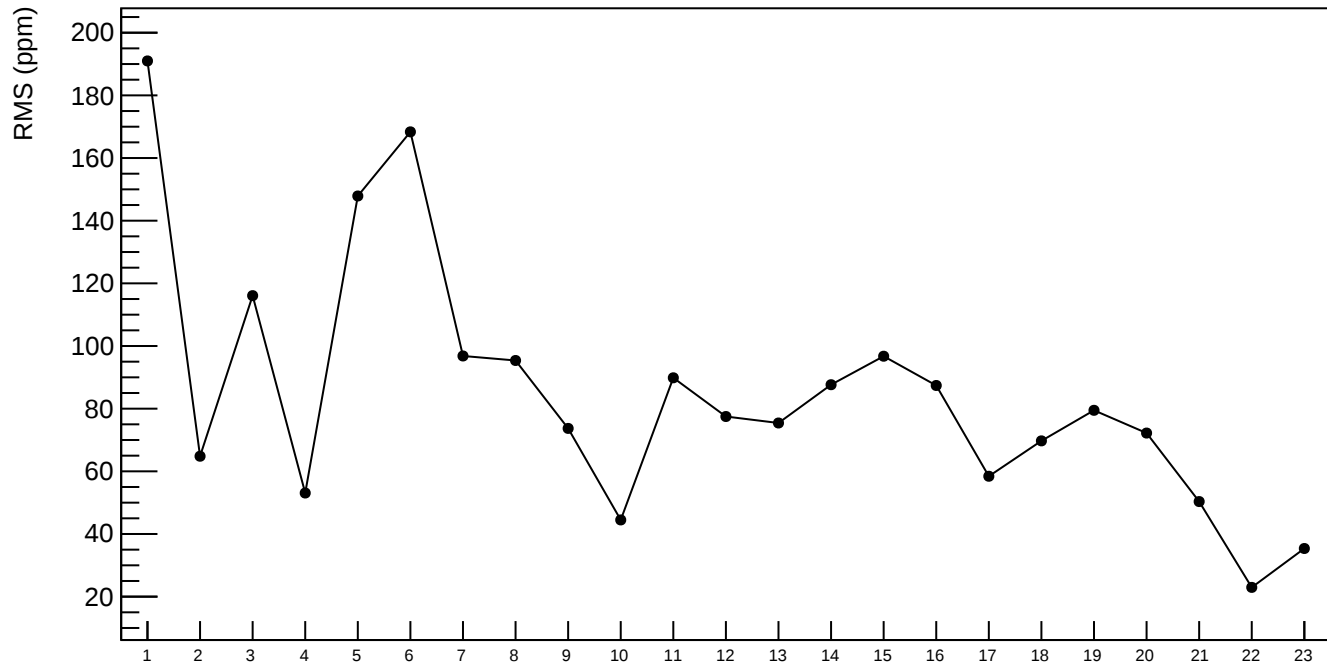
corr_usr_bpm1X (ppb)



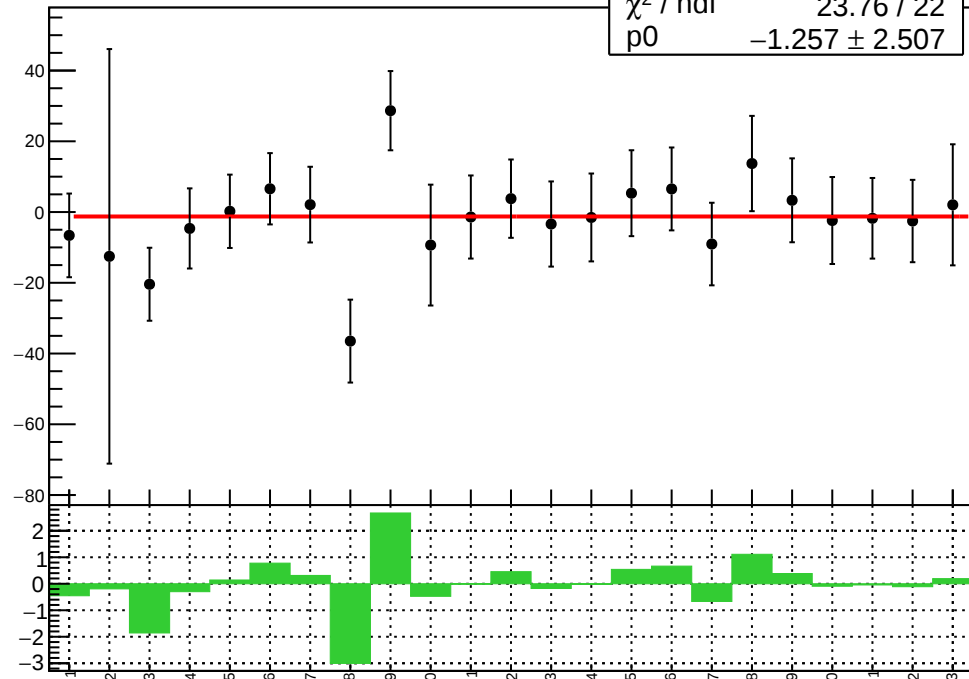
1D pull distribution



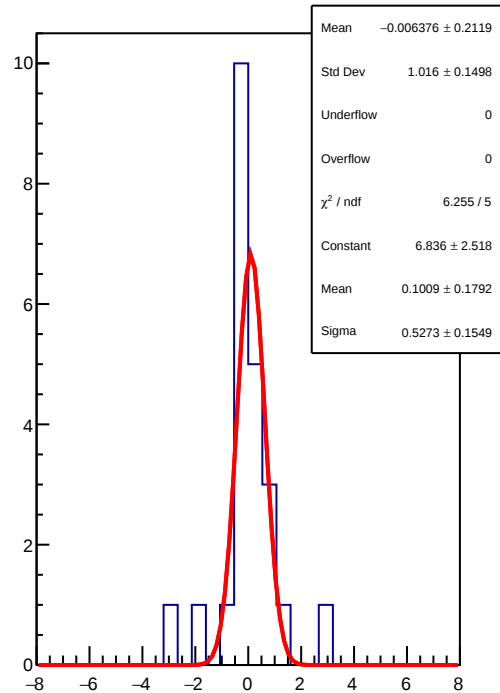
corr_usr_bpm1X RMS (ppm)



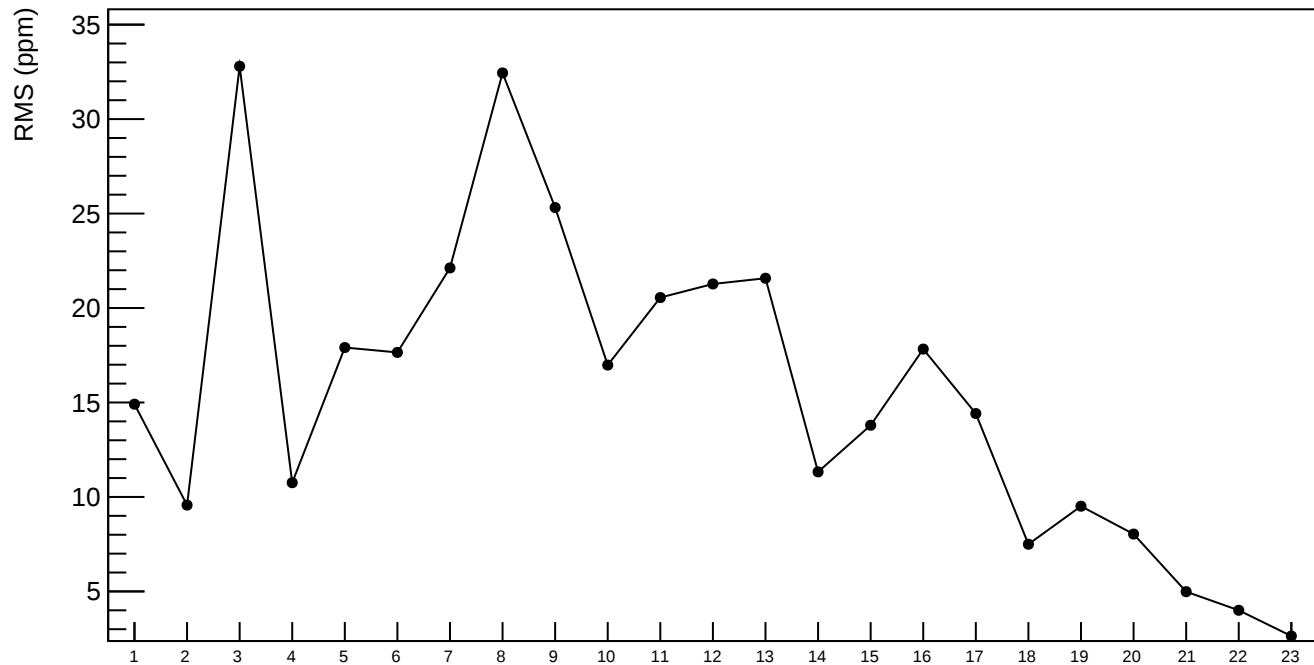
corr_usr_bpm1Y (ppb)

 χ^2 / nfd 23.76 / 22
p0 -1.257 ± 2.507 

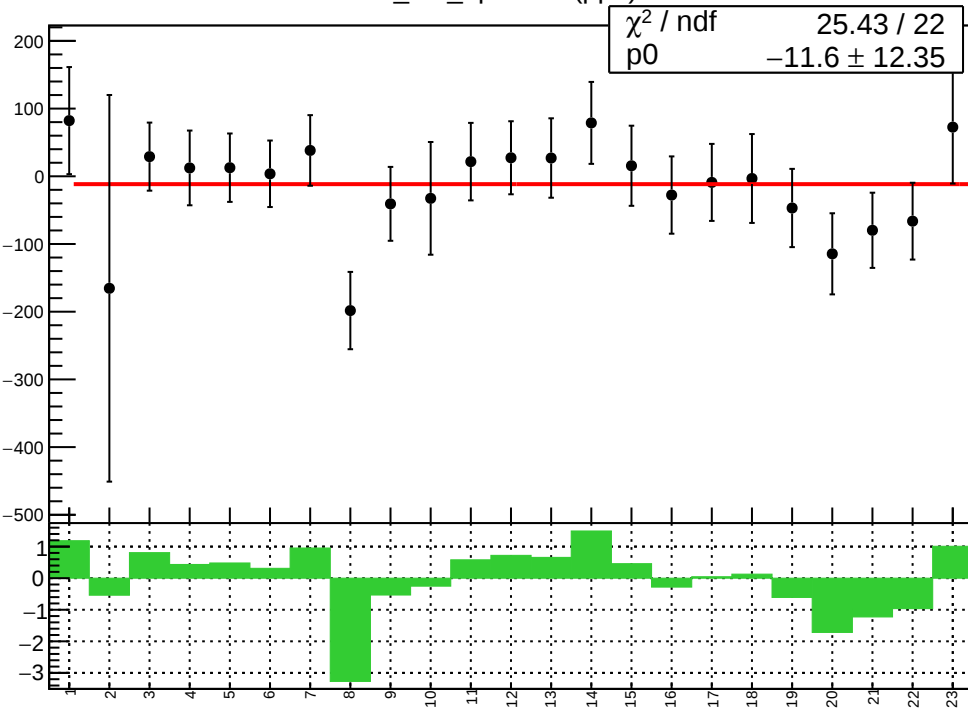
1D pull distribution



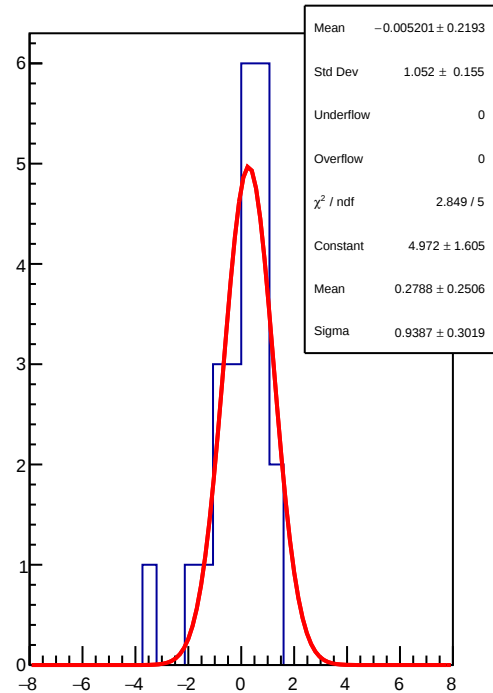
corr_usr_bpm1Y RMS (ppm)



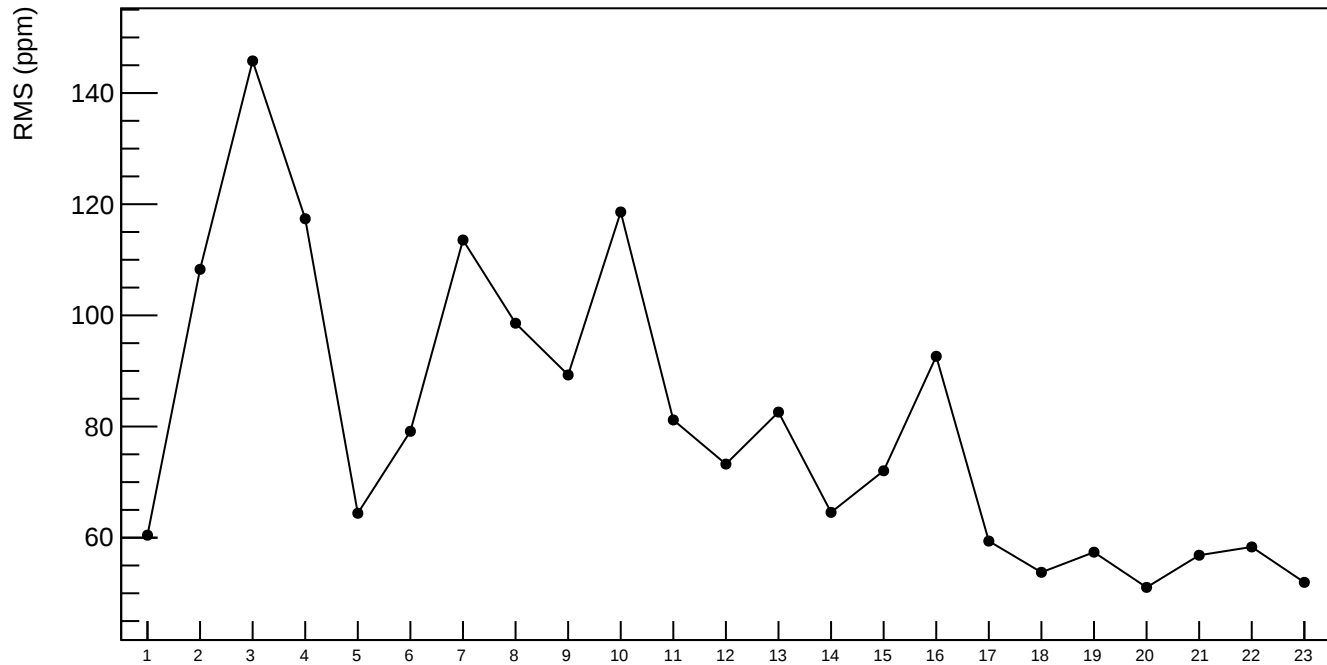
corr_usr_bpm16X (ppb)



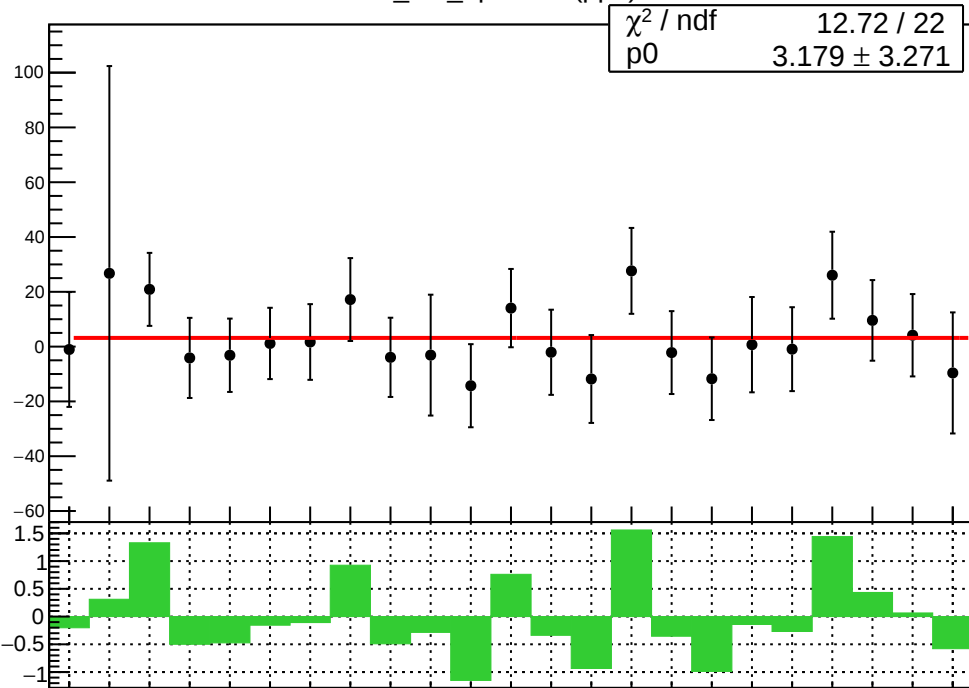
1D pull distribution



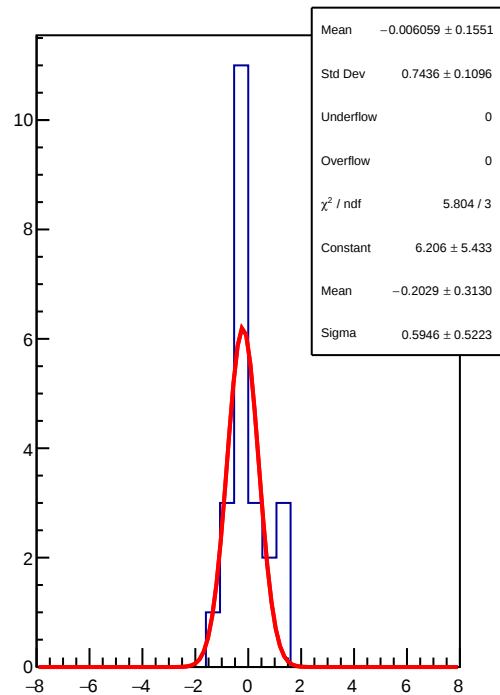
corr_usr_bpm16X RMS (ppm)



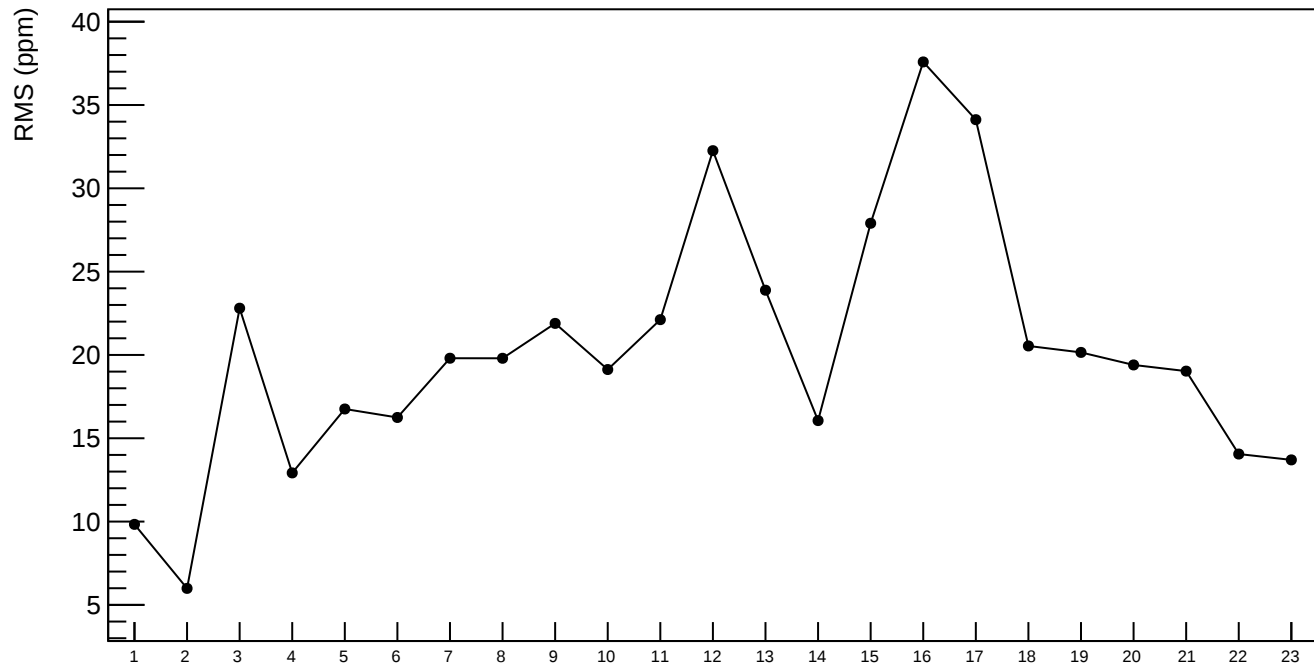
corr_usr_bpm16Y (ppb)



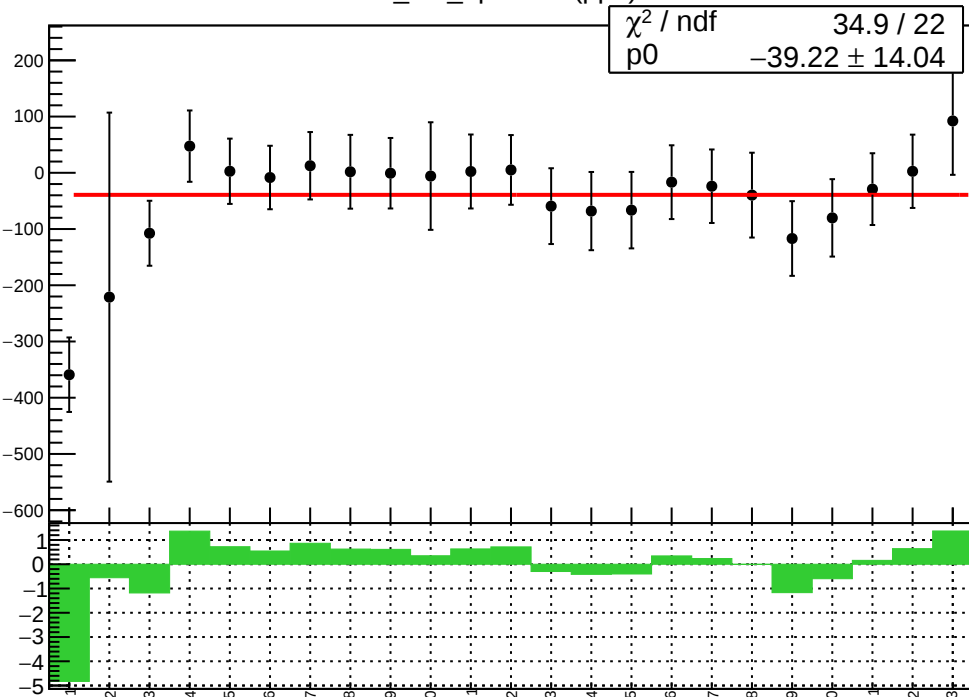
1D pull distribution



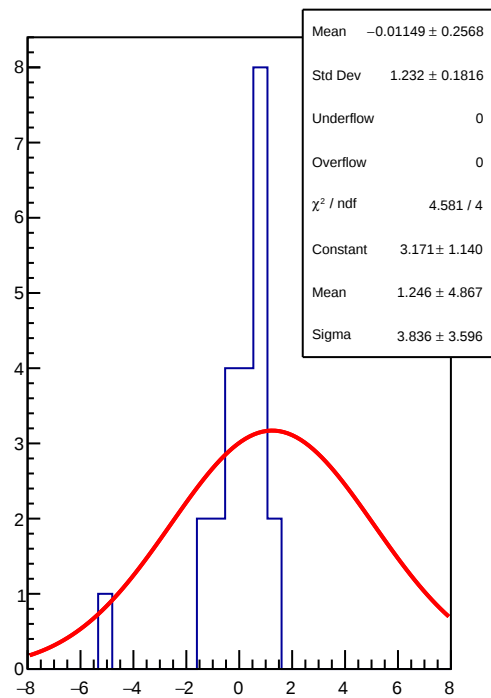
corr_usr_bpm16Y RMS (ppm)



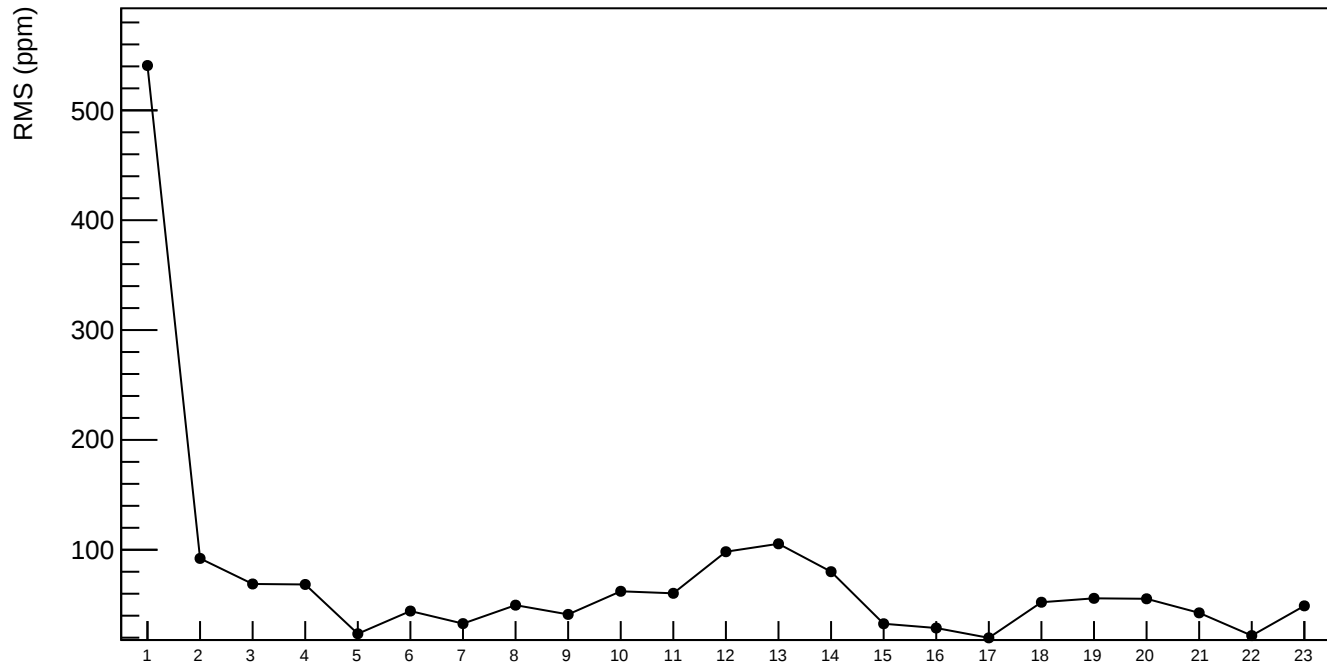
corr_usr_bpm12X (ppb)



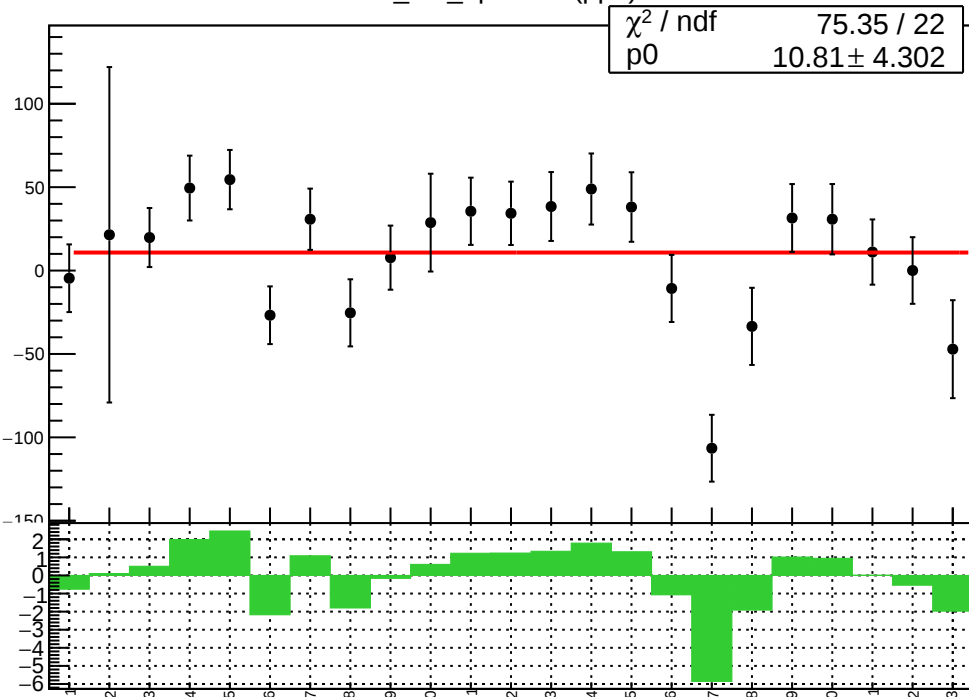
1D pull distribution



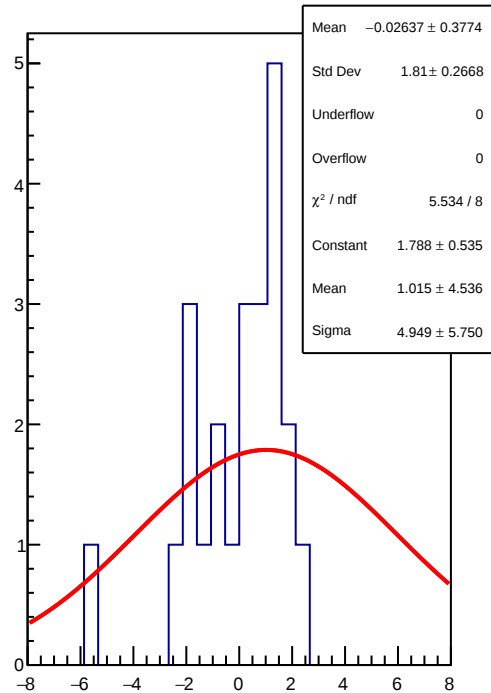
corr_usr_bpm12X RMS (ppm)



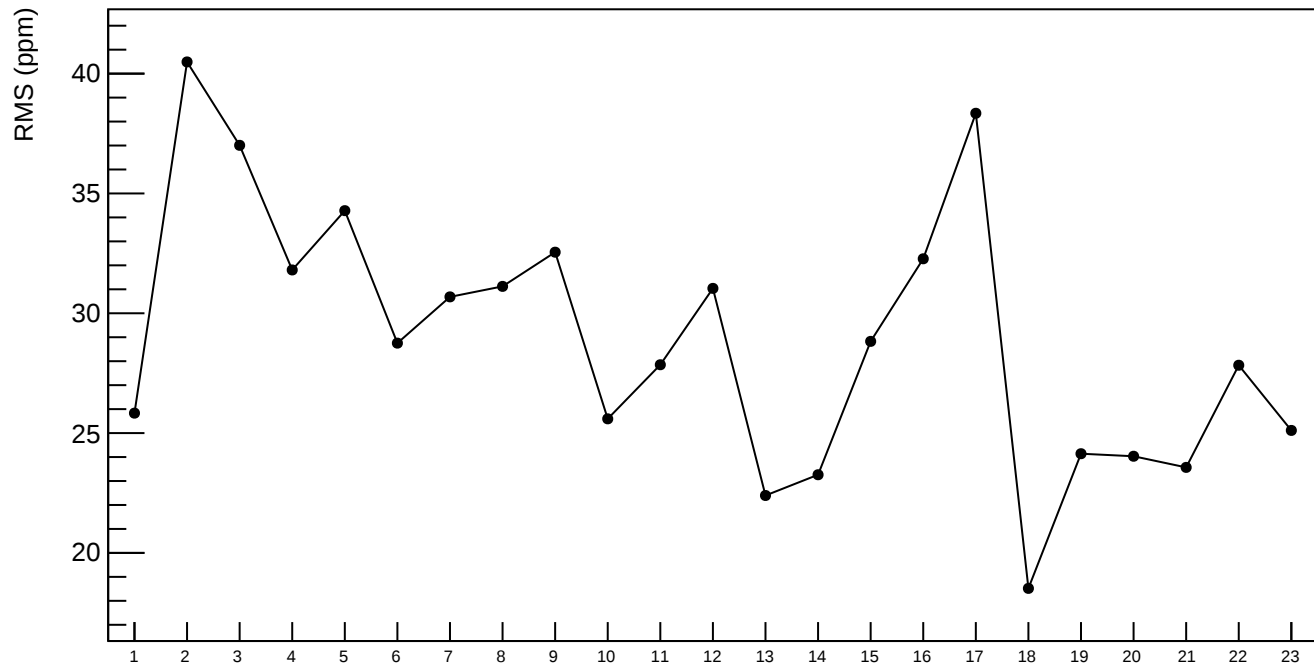
corr_usr_bpm12Y (ppb)



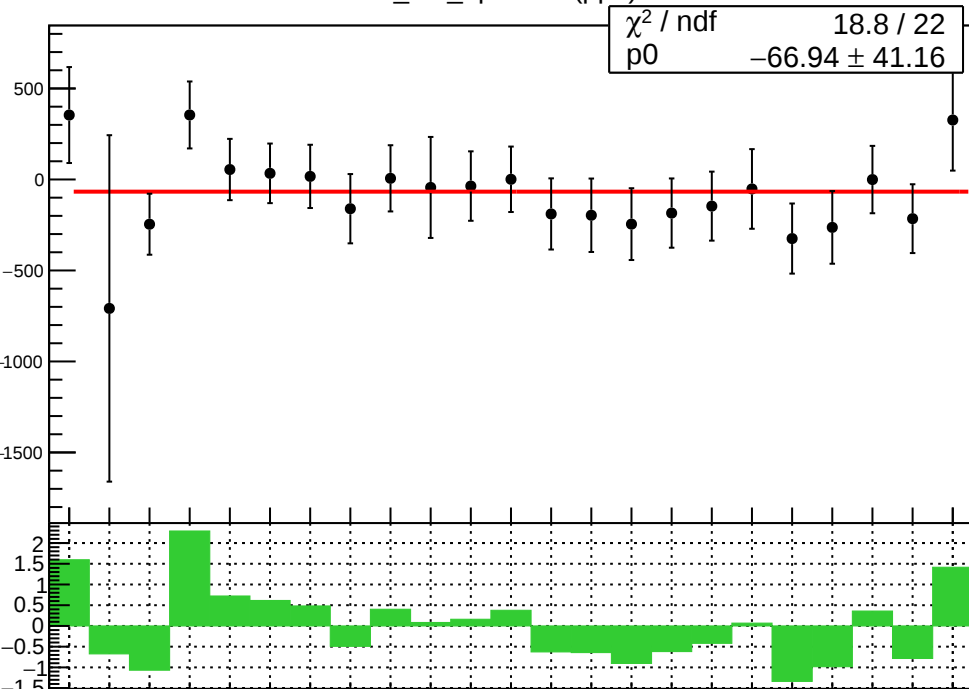
1D pull distribution



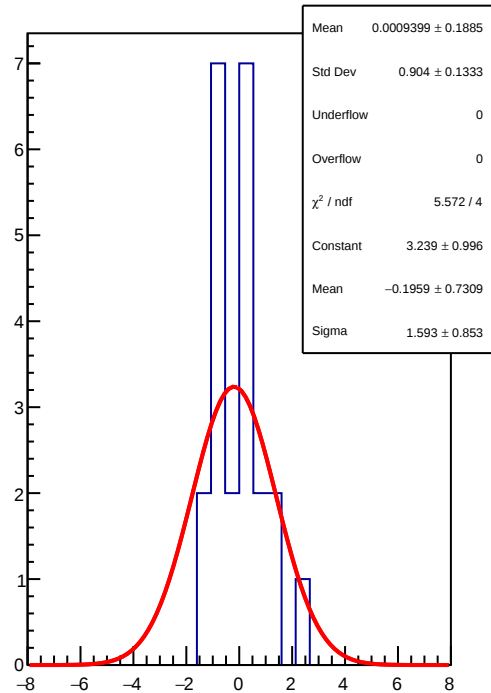
corr_usr_bpm12Y RMS (ppm)



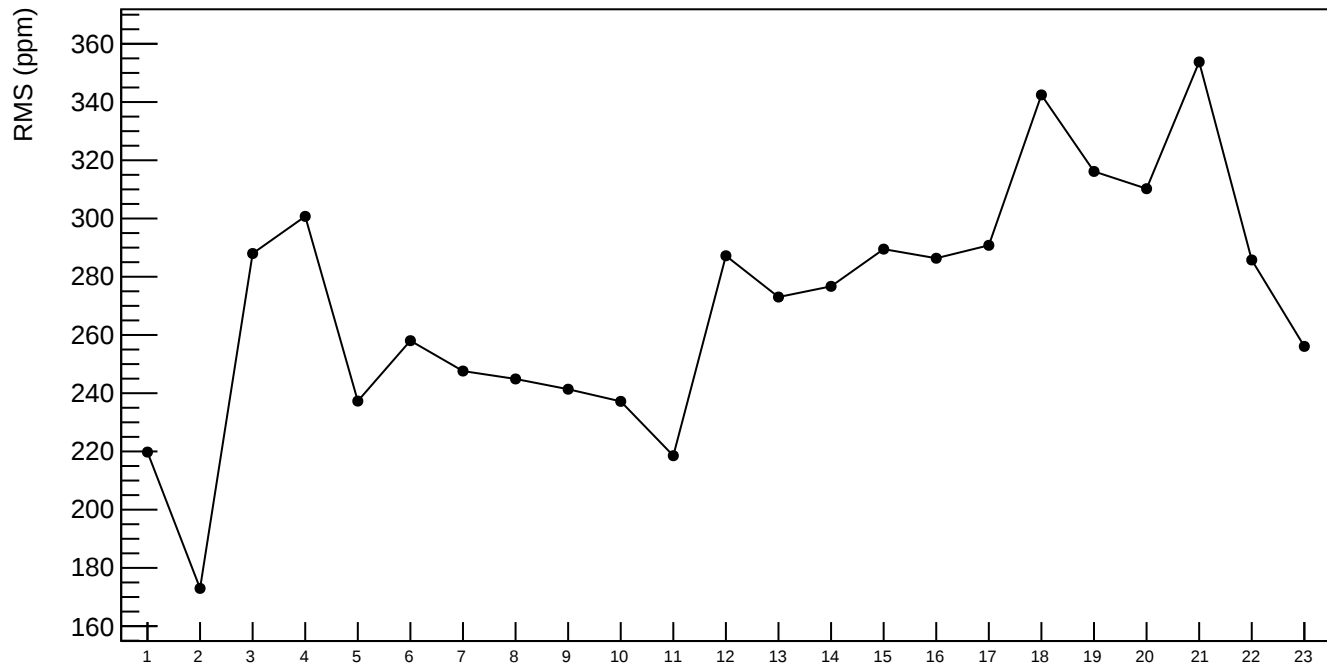
corr_usr_bpm11X (ppb)



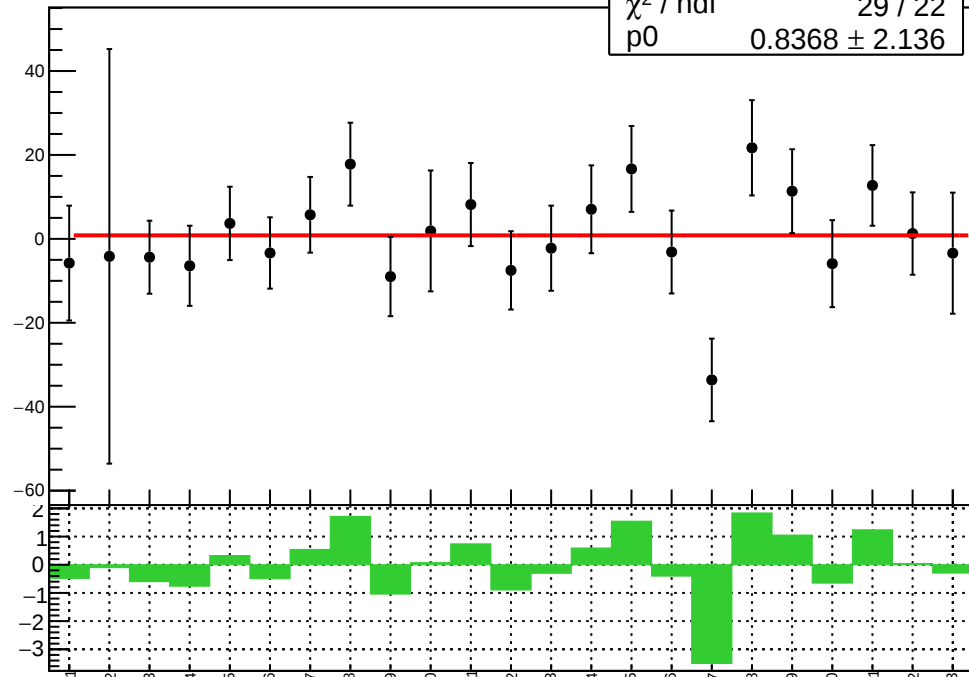
1D pull distribution



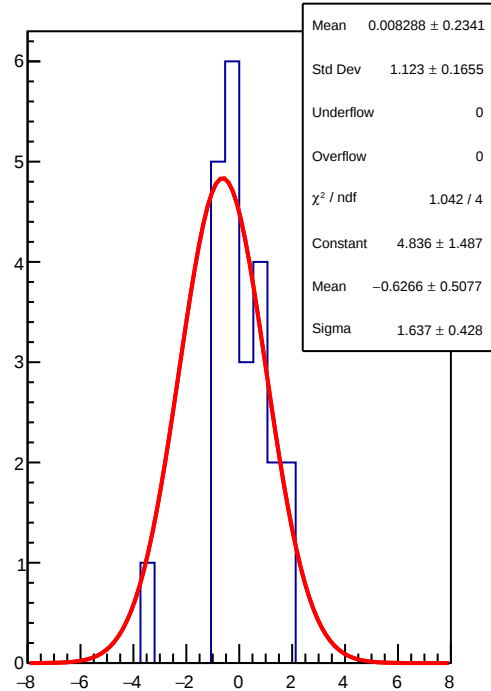
corr_usr_bpm11X RMS (ppm)



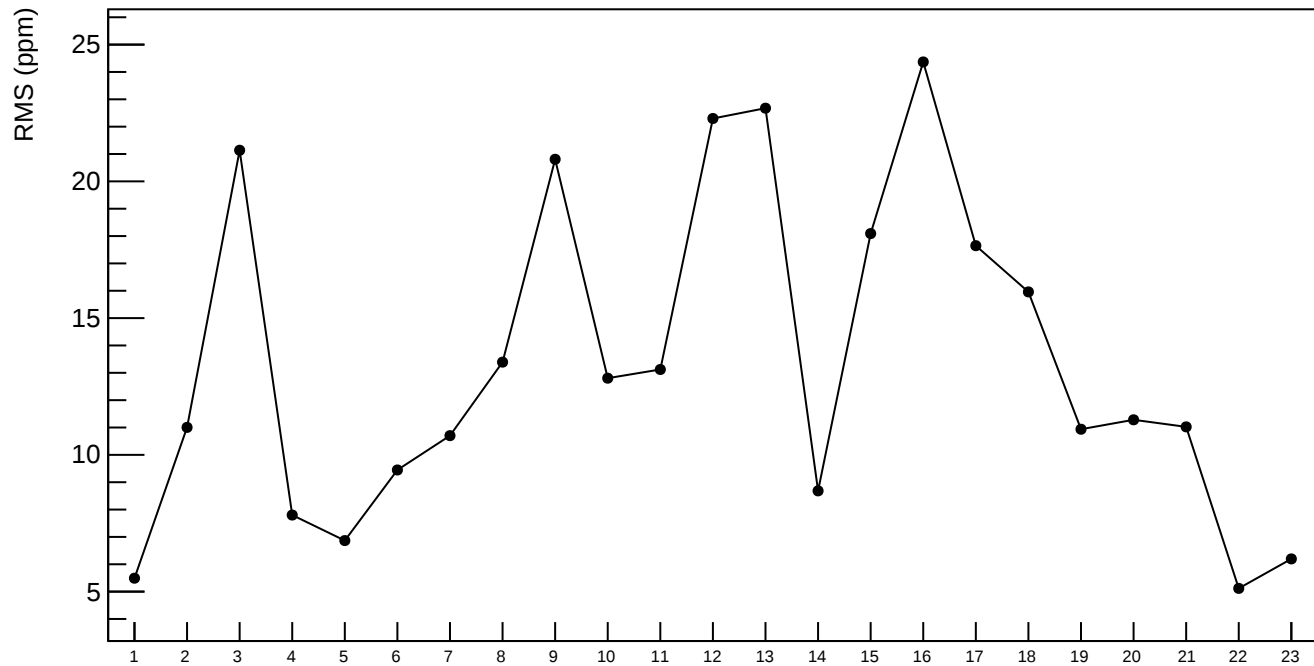
corr_usr_bpm11Y (ppb)

 χ^2 / nfd 29 / 22
p0 0.8368 ± 2.136 

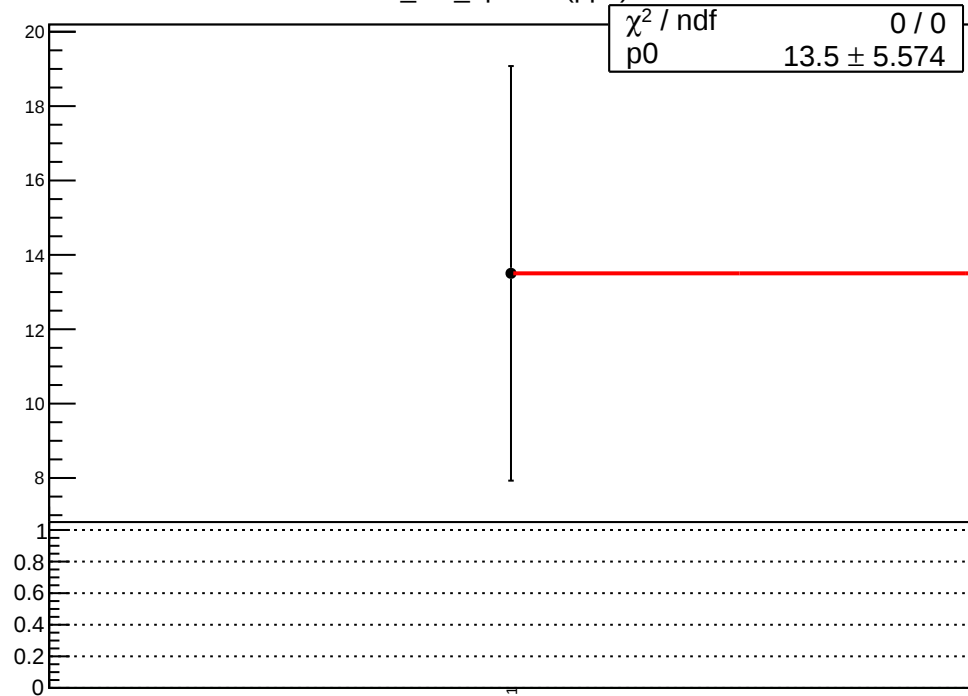
1D pull distribution



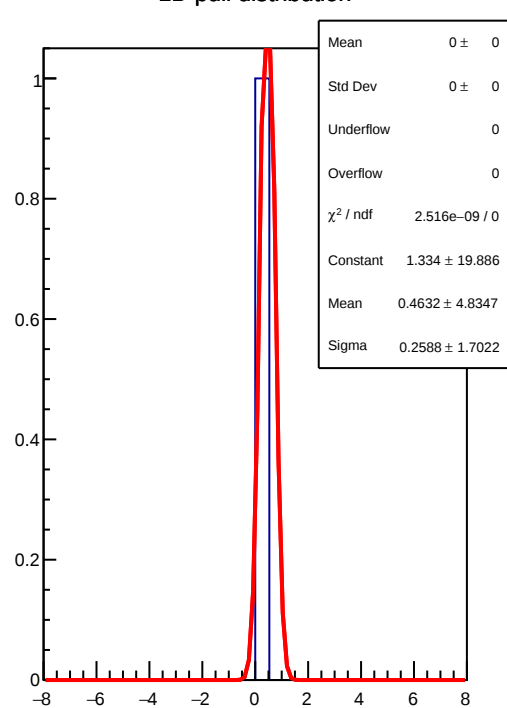
corr_usr_bpm11Y RMS (ppm)



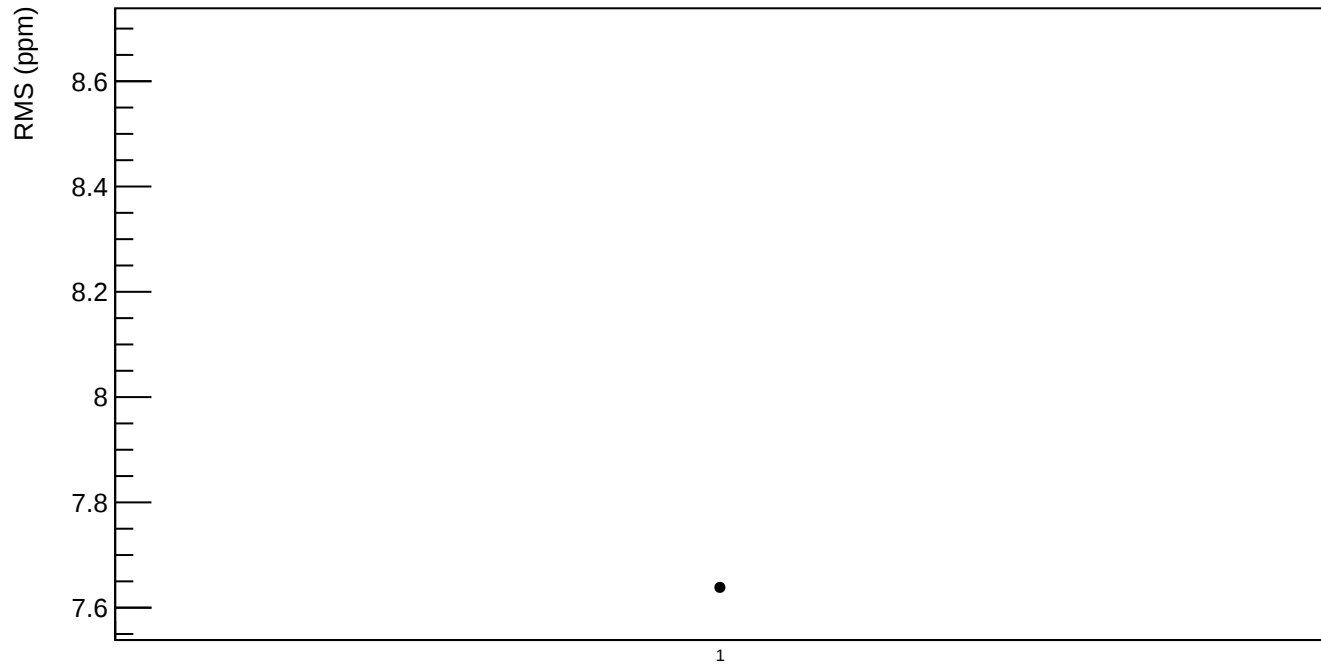
corr_usr_bpm8X (ppb)



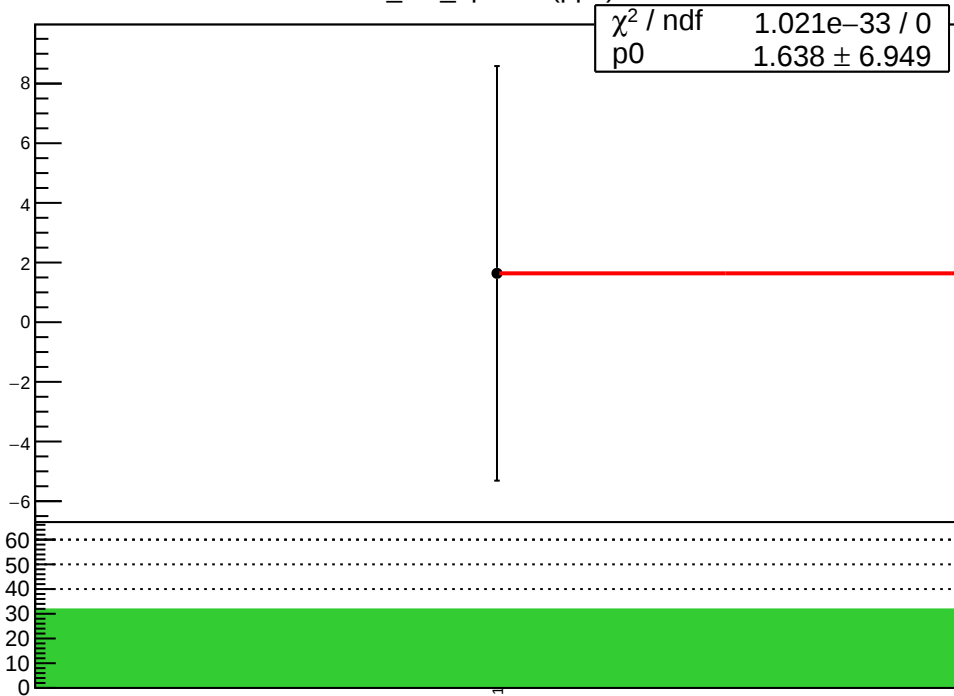
1D pull distribution



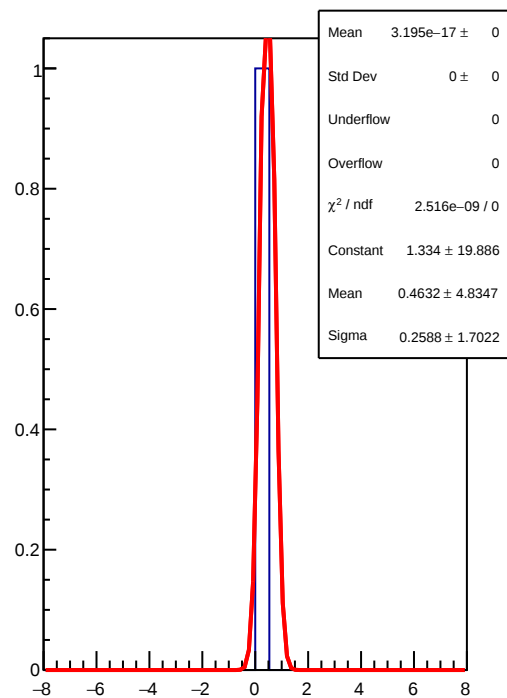
corr_usr_bpm8X RMS (ppm)



corr_usr_bpm8Y (ppb)



1D pull distribution



corr_usr_bpm8Y RMS (ppm)

