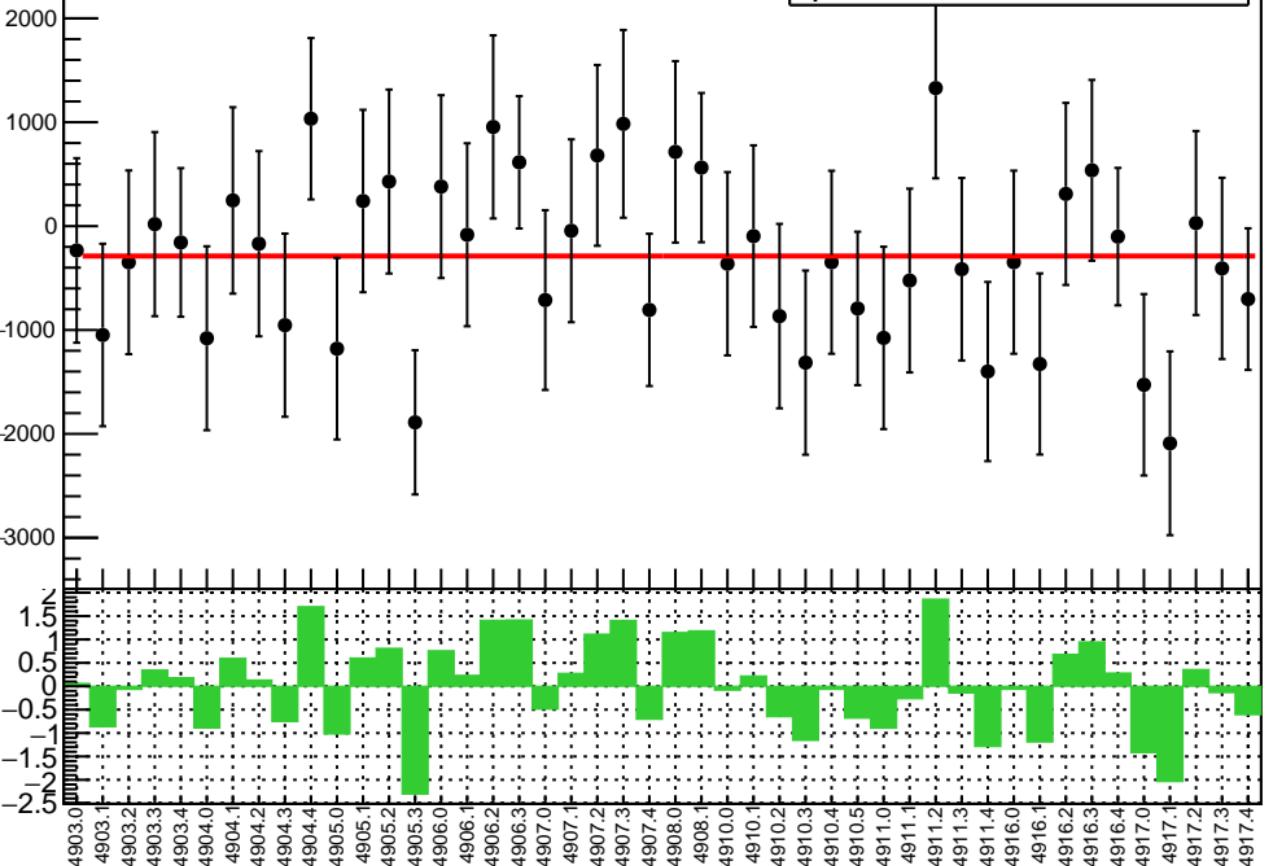
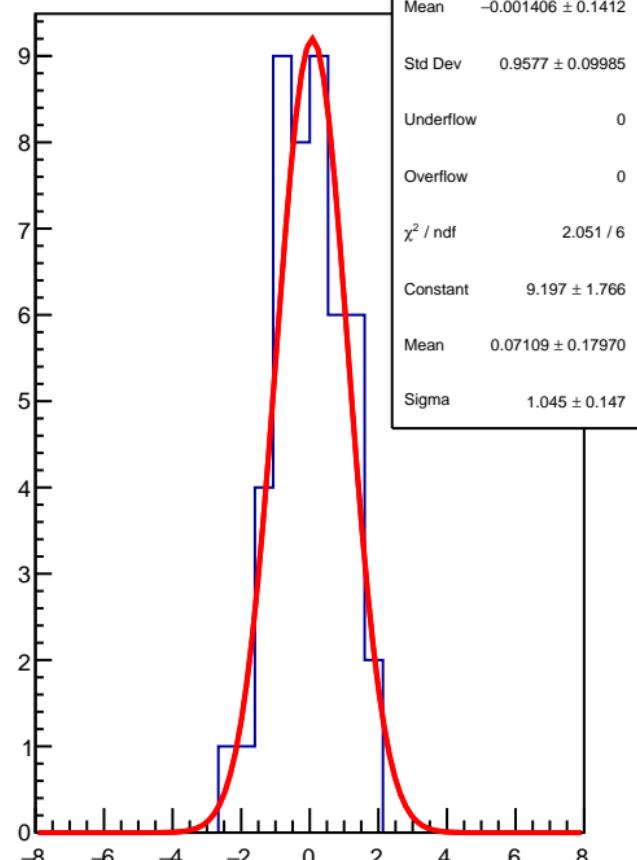


Adet (ppb)

χ^2 / ndf
42.19 / 45
 p_0
 -288.2 ± 123.1

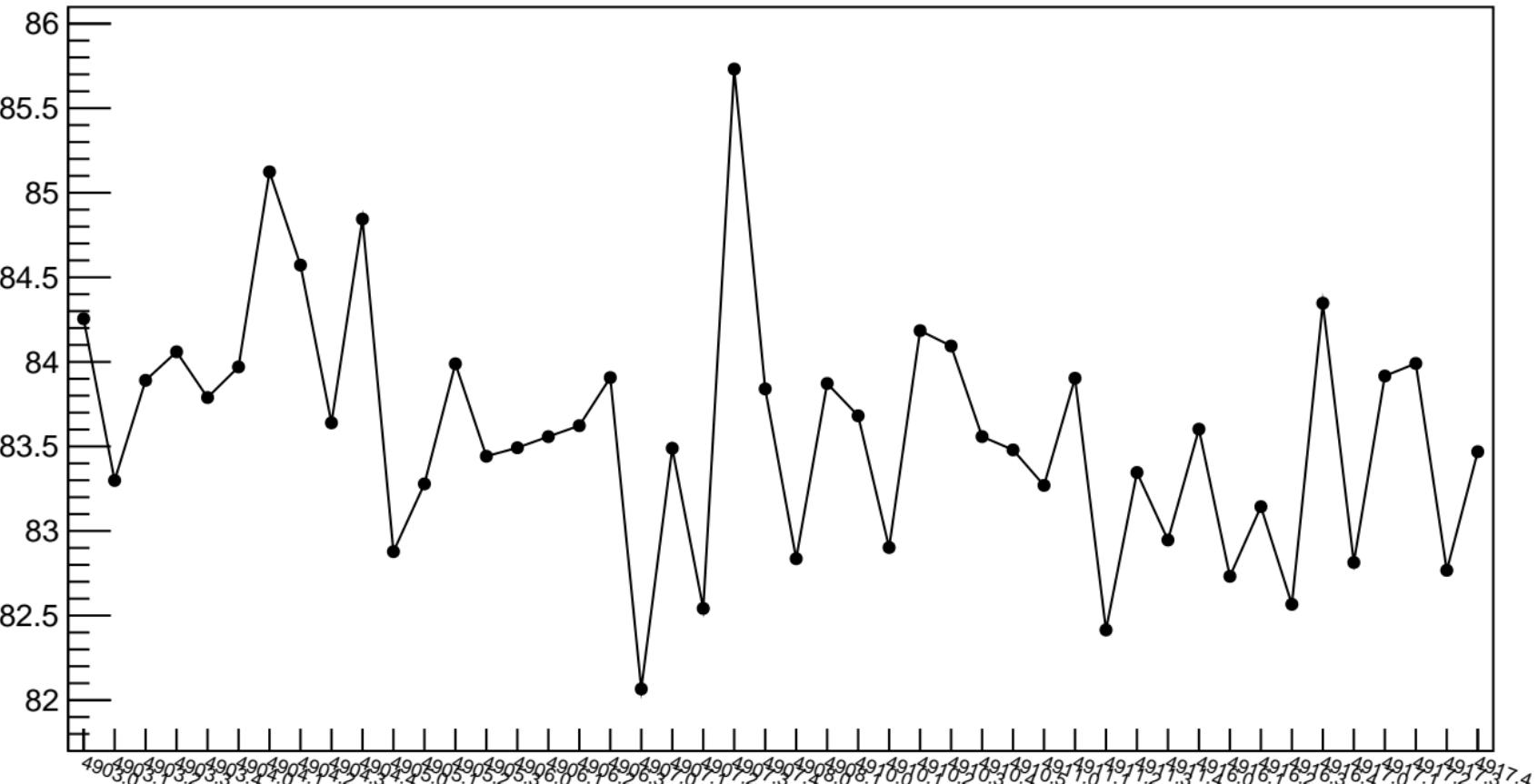


1D pull distribution

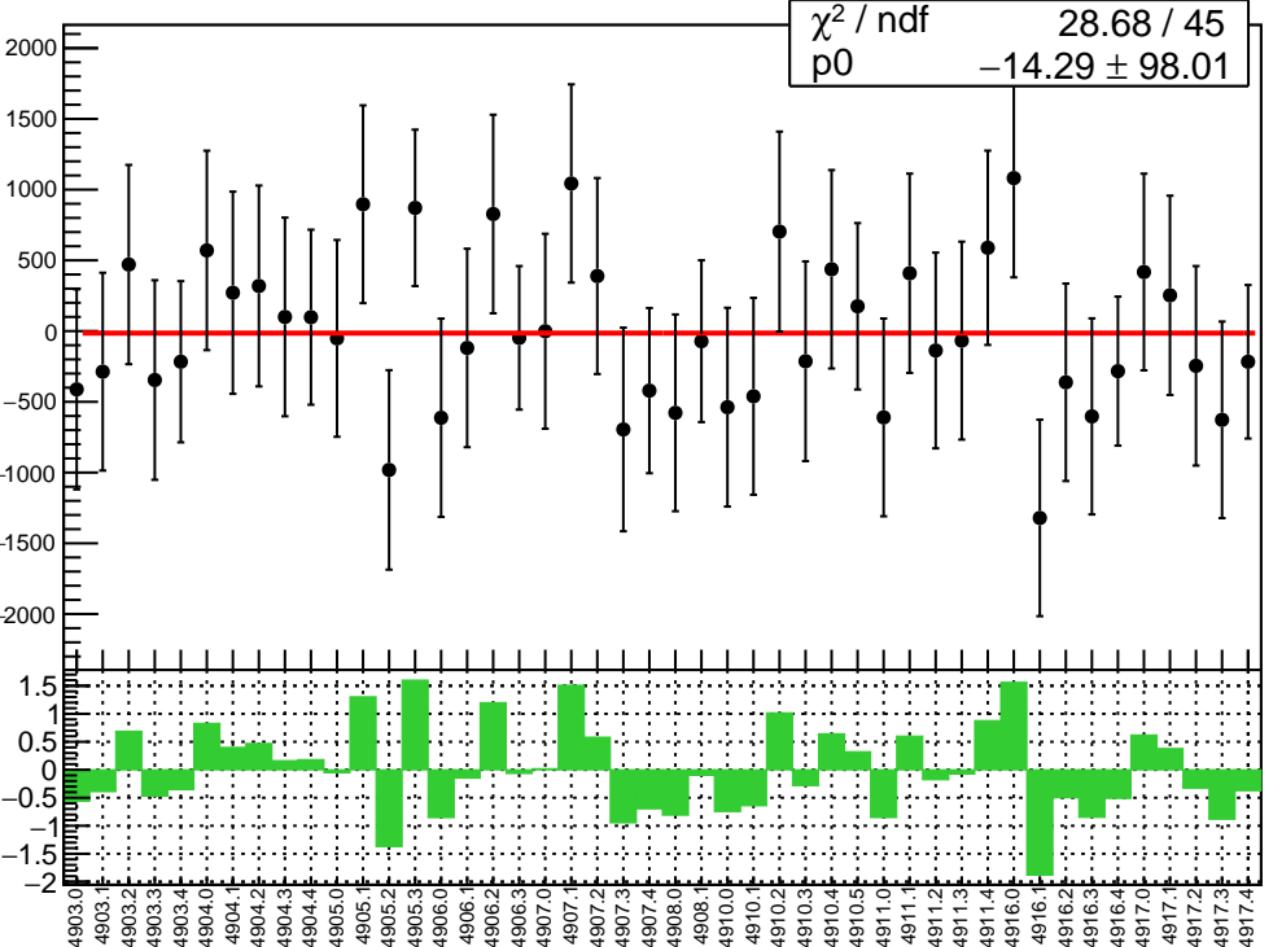


Adet RMS (ppm)

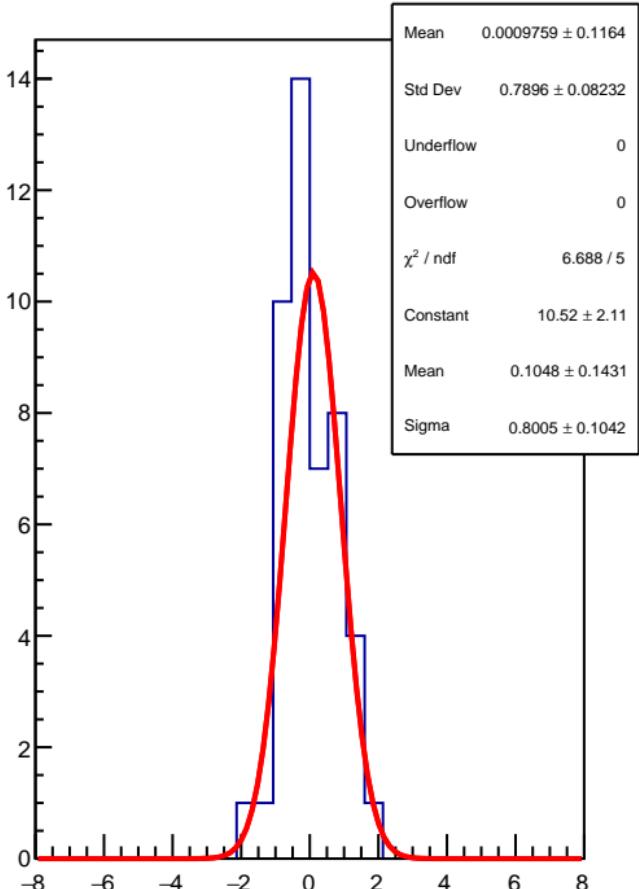
RMS (ppm)



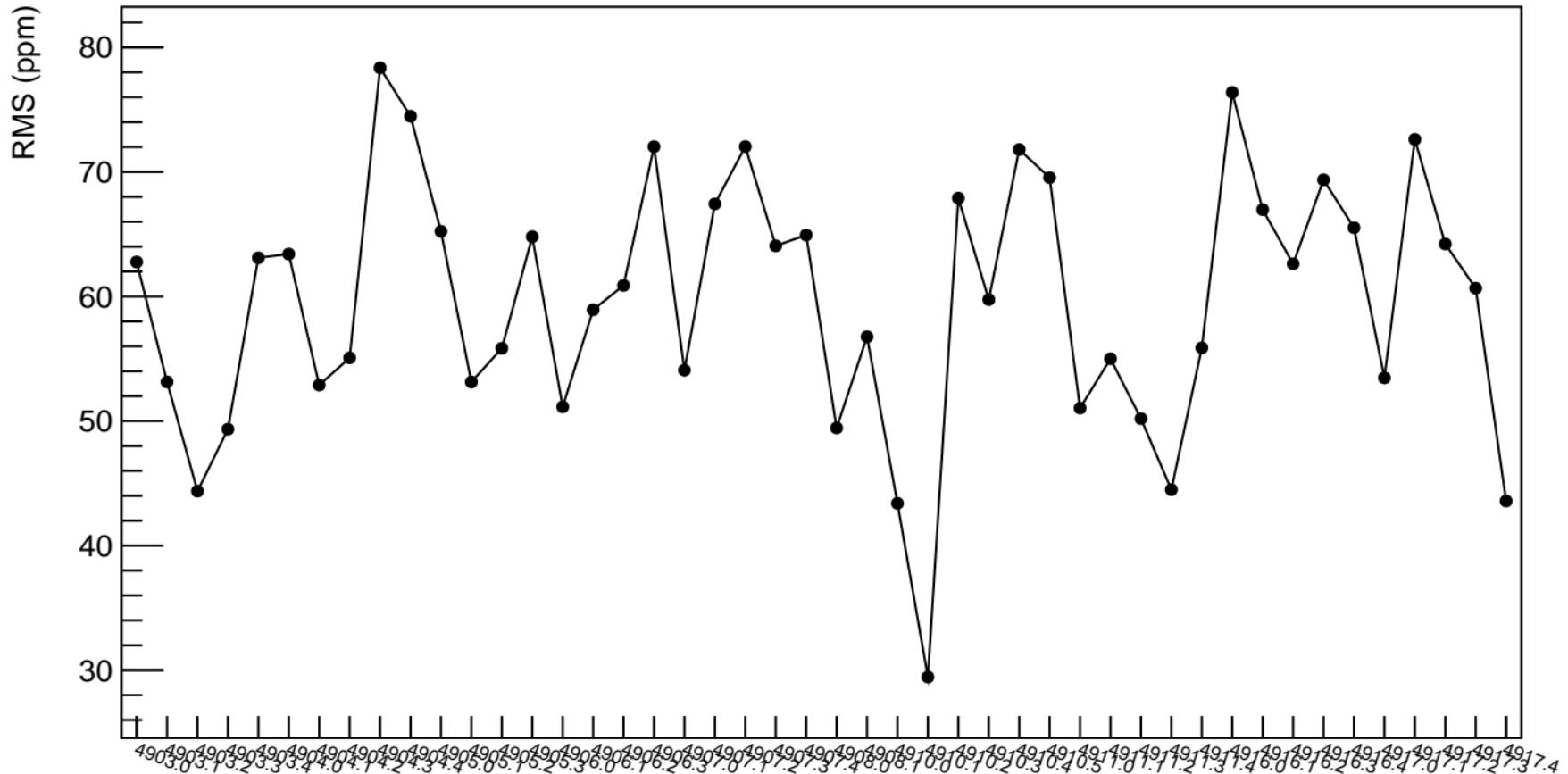
corr_Adet_bpm4eX (ppb)



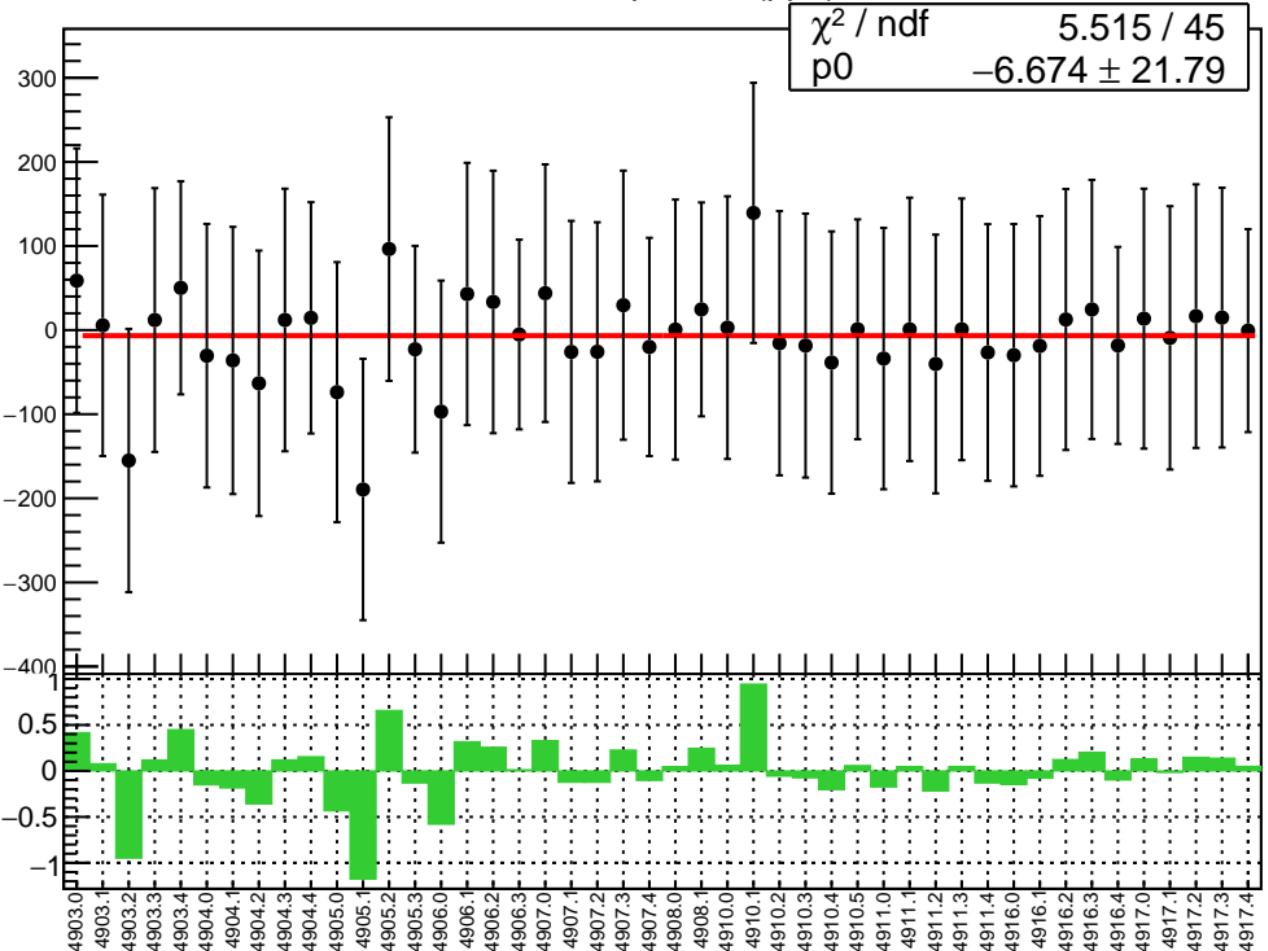
1D pull distribution



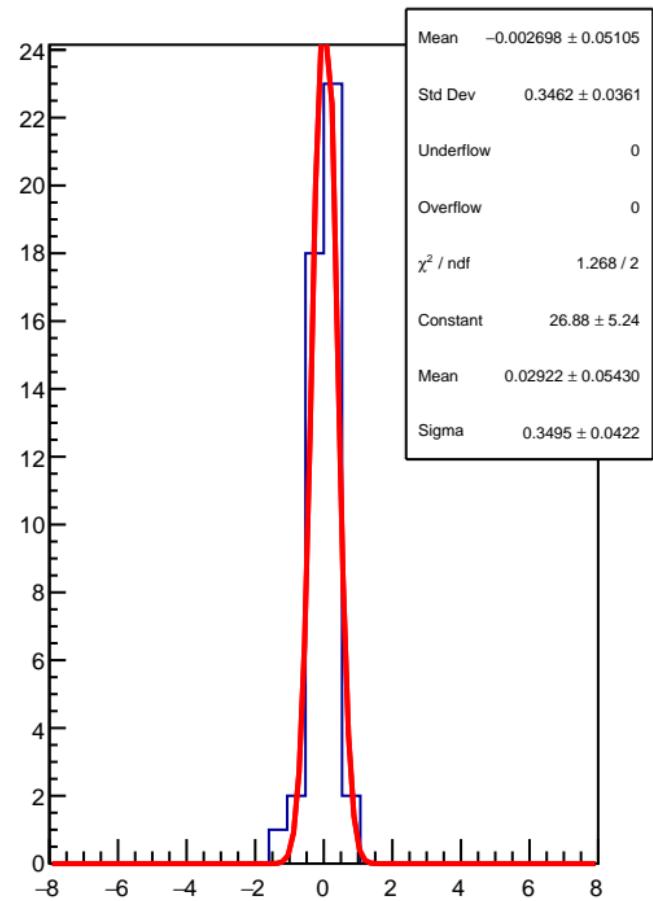
corr_Adet_bpm4eX RMS (ppm)



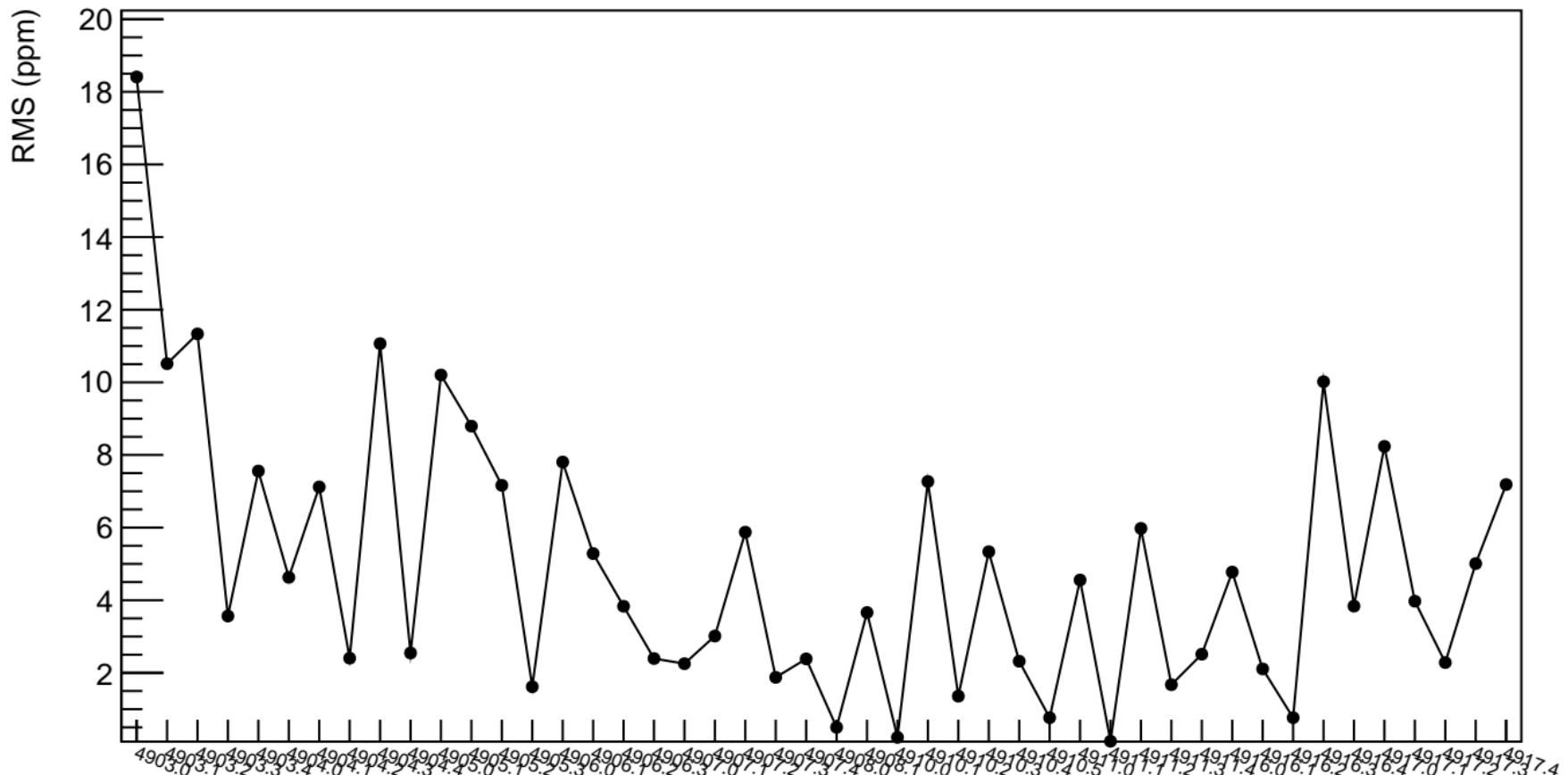
corr_Adet_bpm4eY (ppb)



1D pull distribution

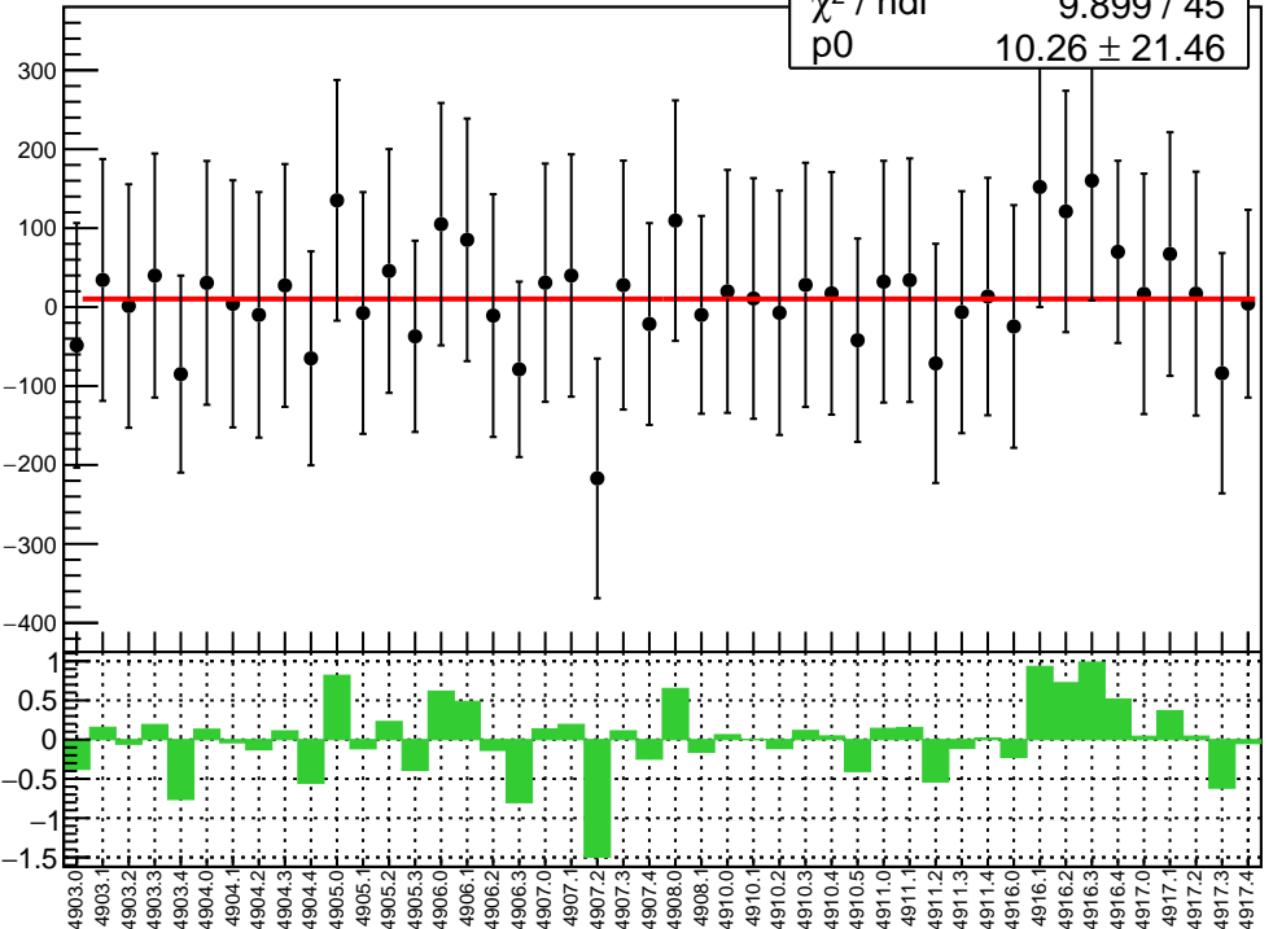


corr_Adet_bpm4eY RMS (ppm)

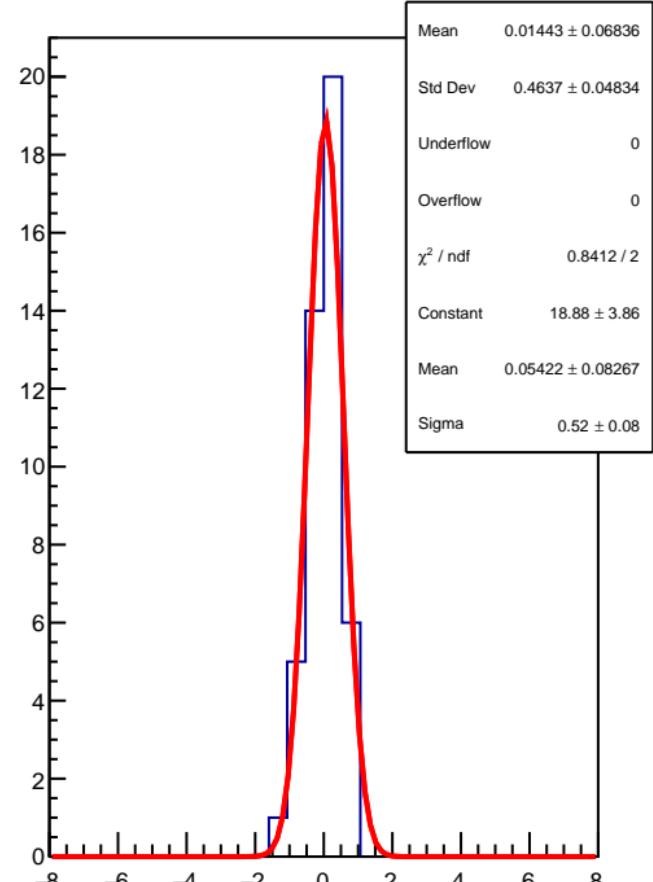


corr_Adet_bpm4aX (ppb)

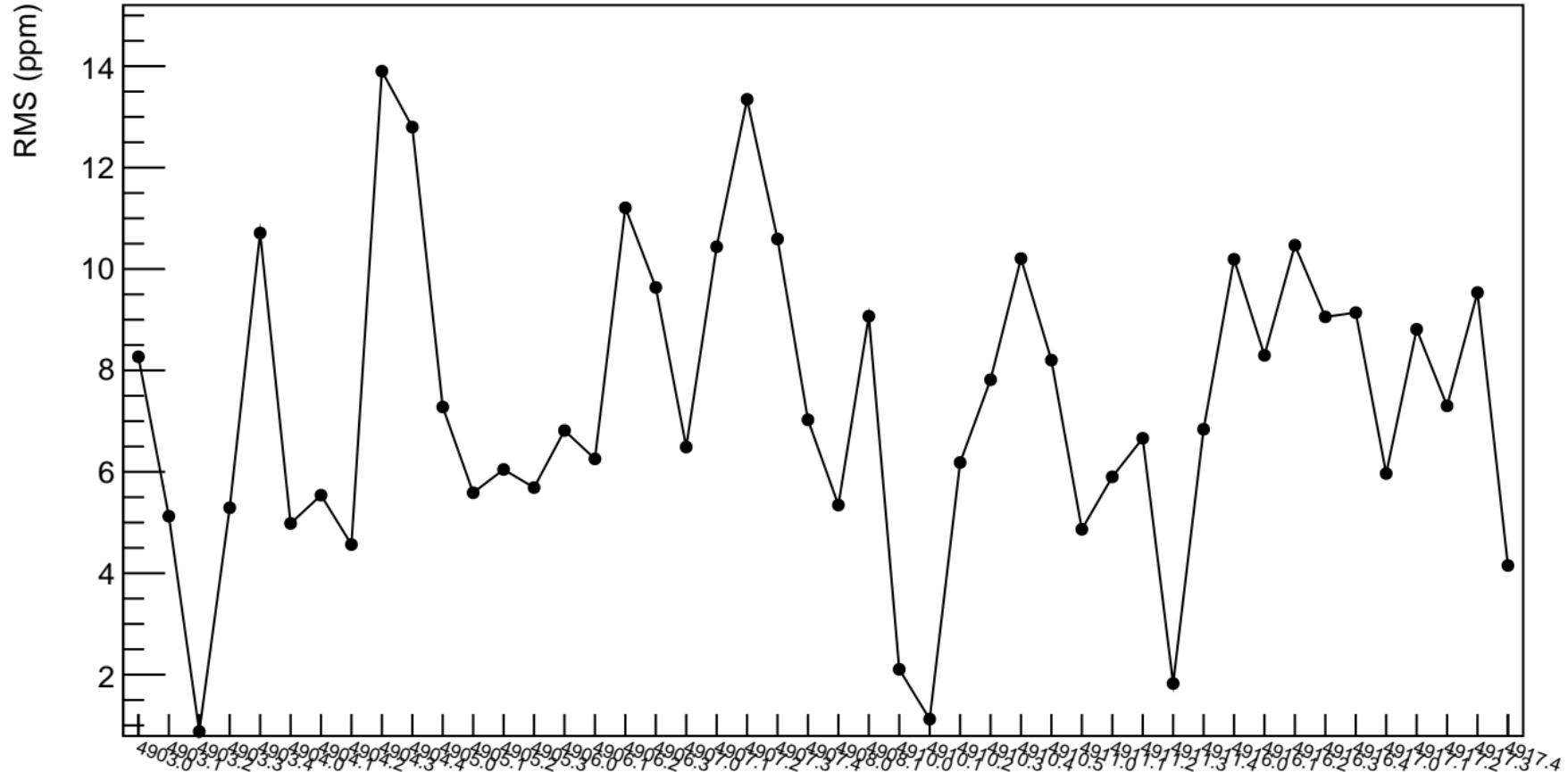
χ^2 / ndf 9.899 / 45
p0 10.26 ± 21.46



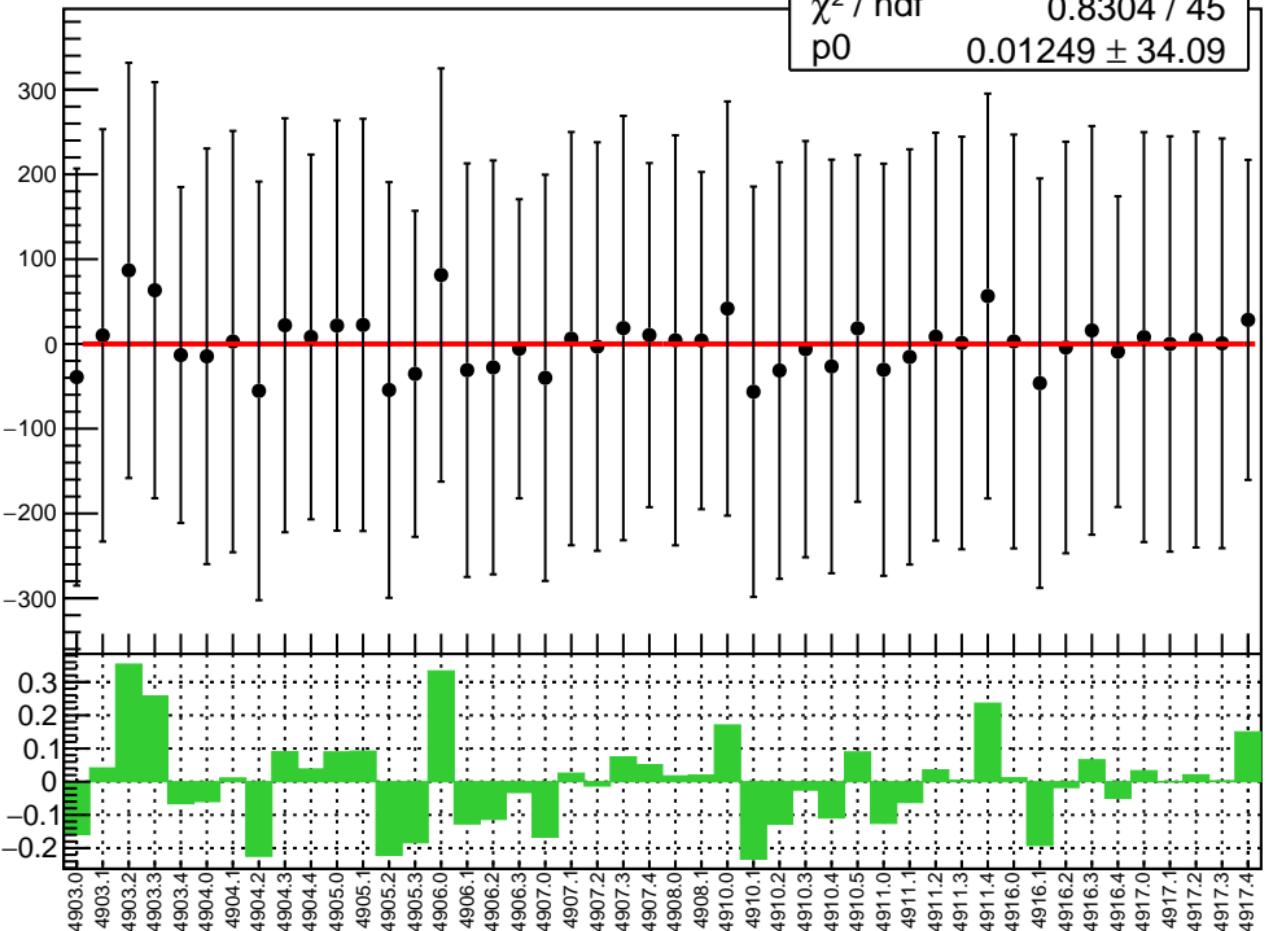
1D pull distribution



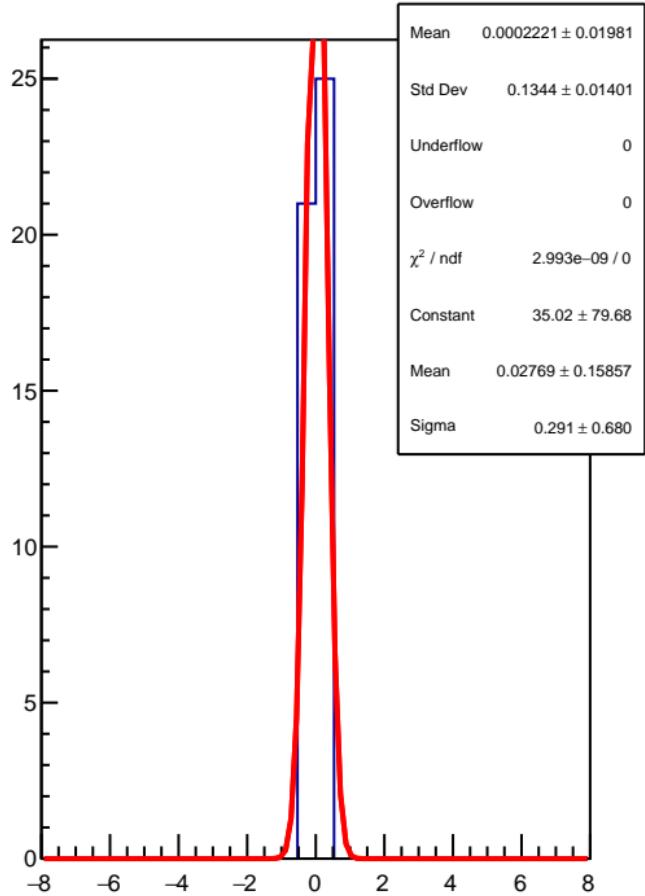
corr_Adet_bpm4aX RMS (ppm)



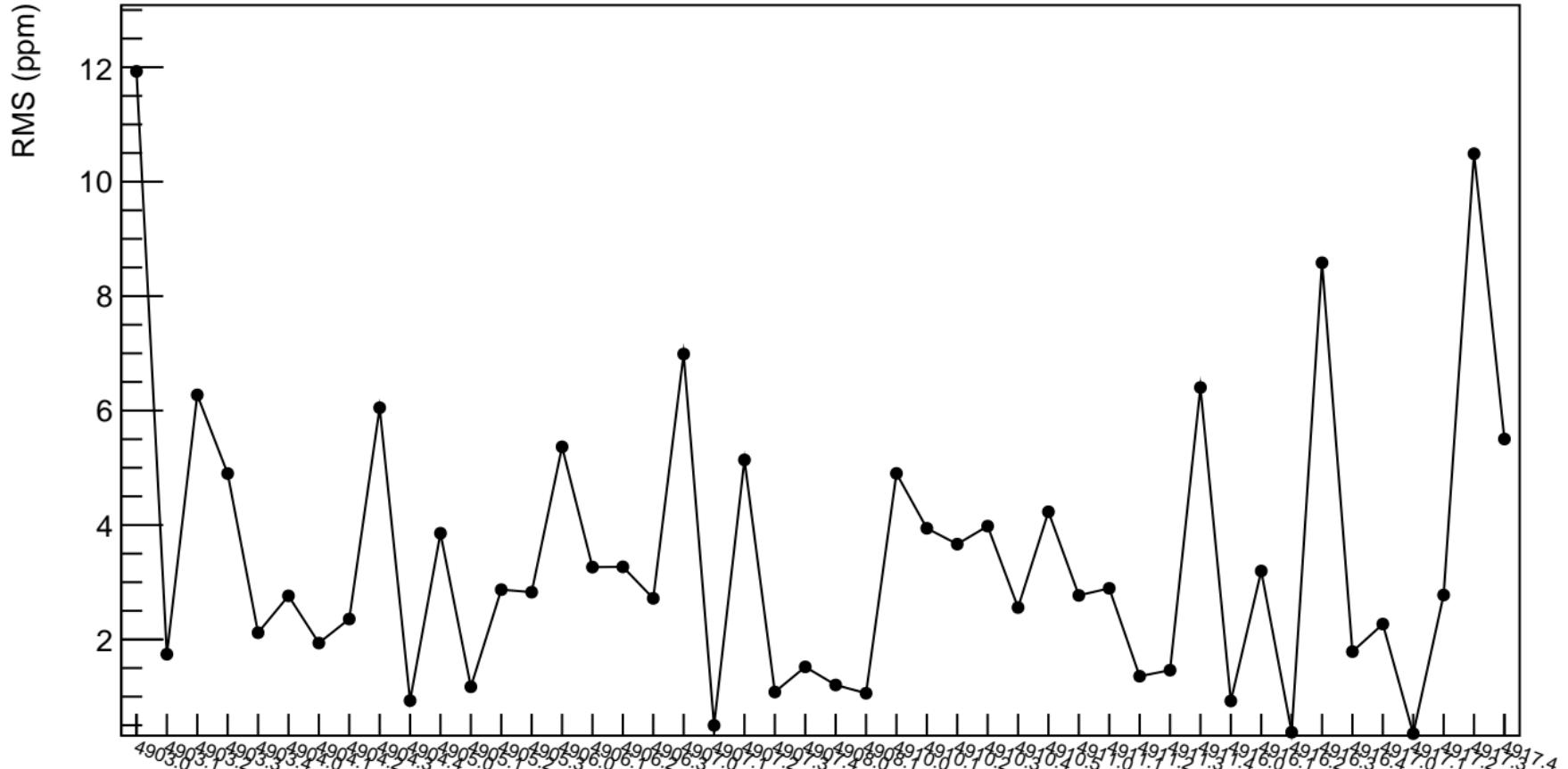
corr_Adet_bpm4aY (ppb)

 χ^2 / ndf
 $0.8304 / 45$
 p_0
 0.01249 ± 34.09


1D pull distribution

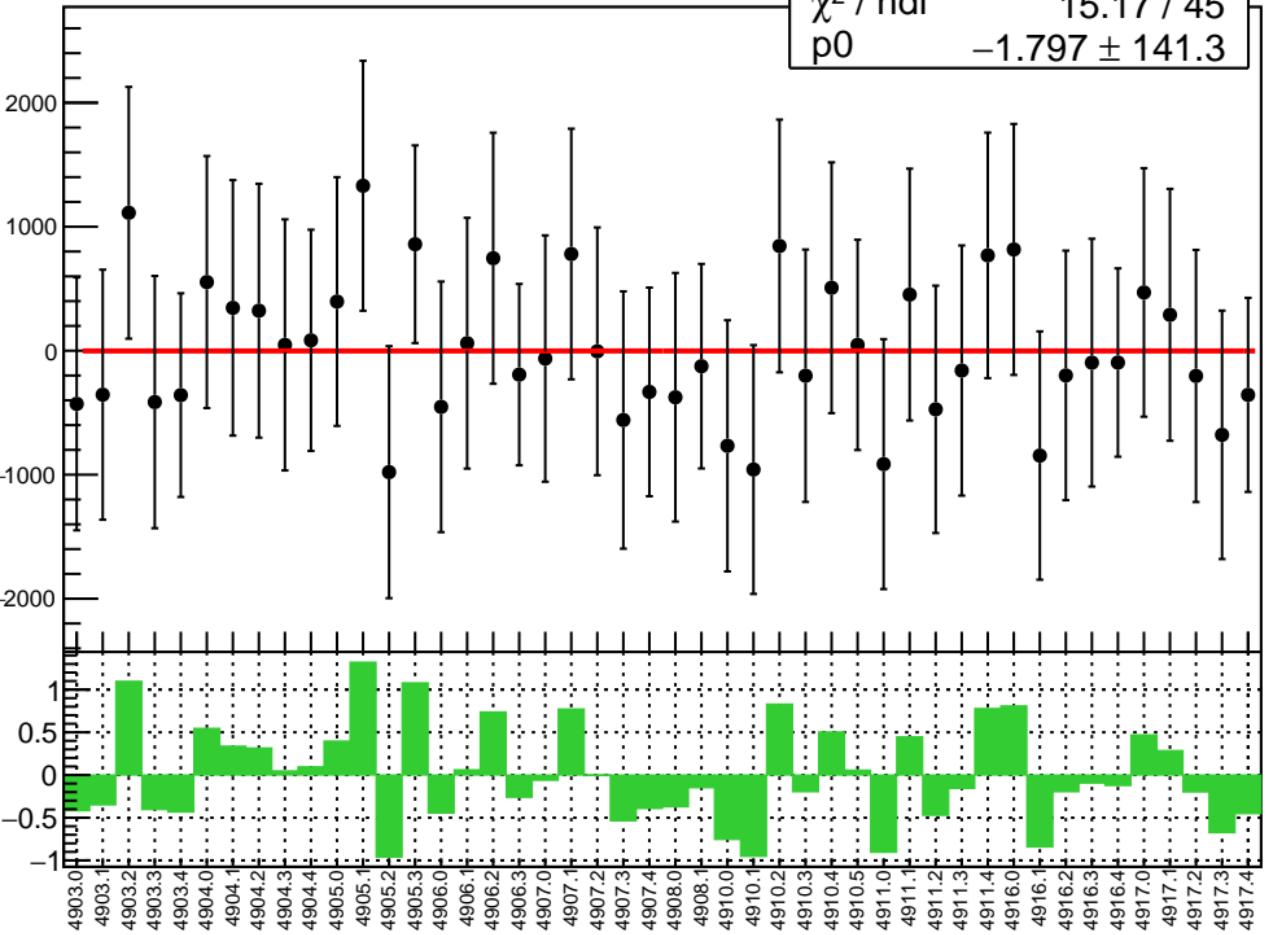


corr_Adet_bpm4aY RMS (ppm)

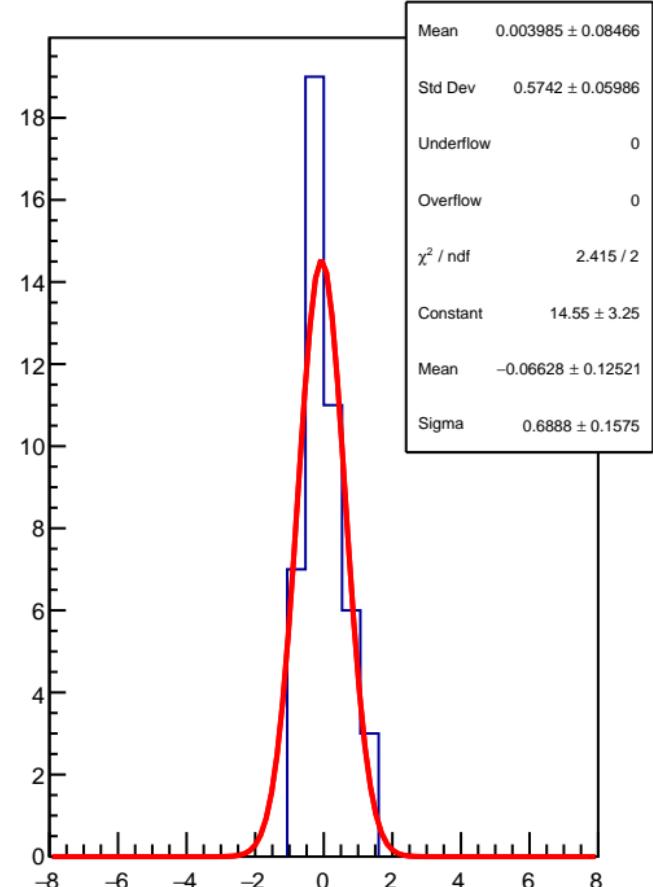


corr_Adet_bpm1X (ppb)

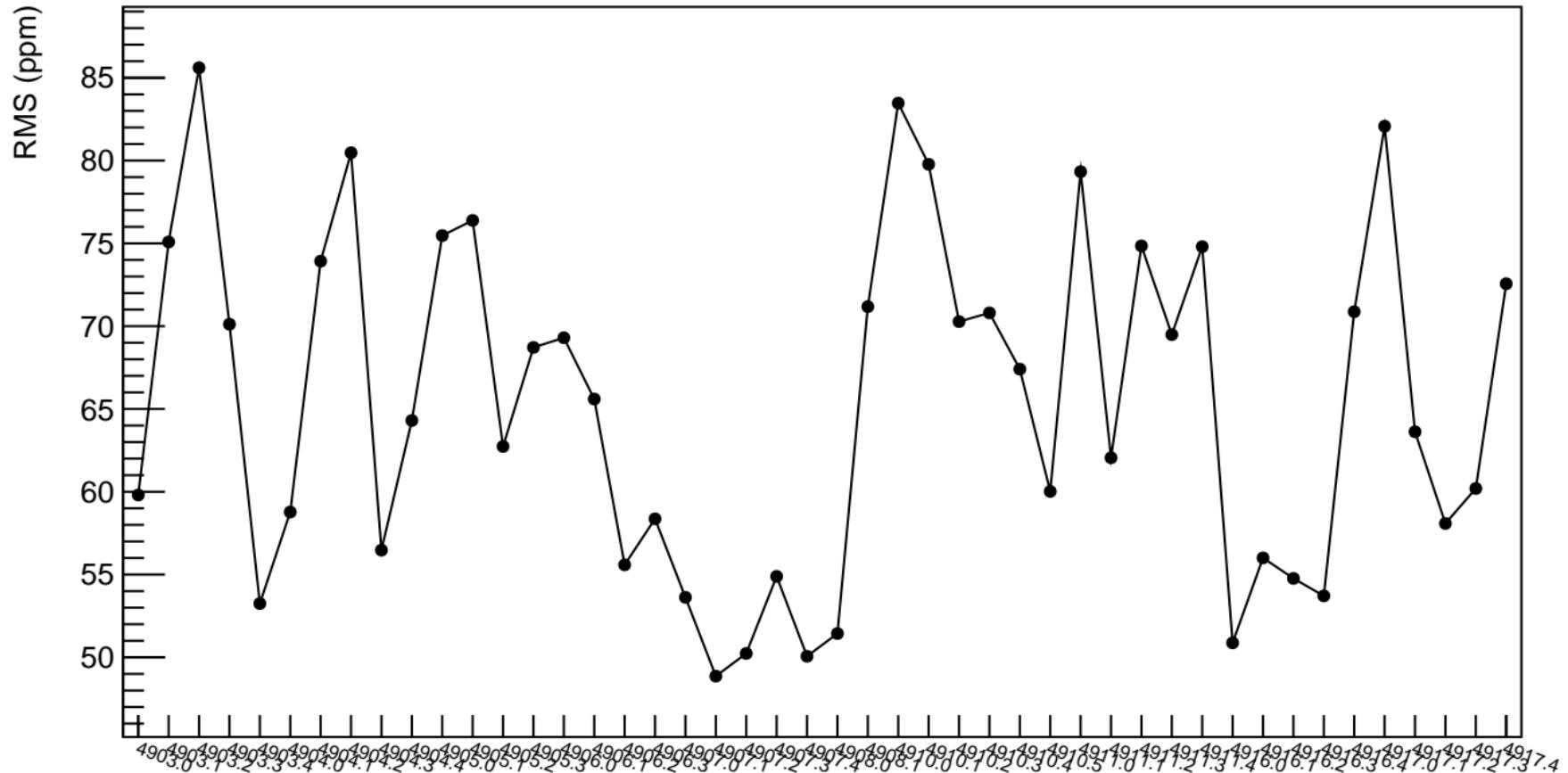
χ^2 / ndf 15.17 / 45
p0 -1.797 ± 141.3



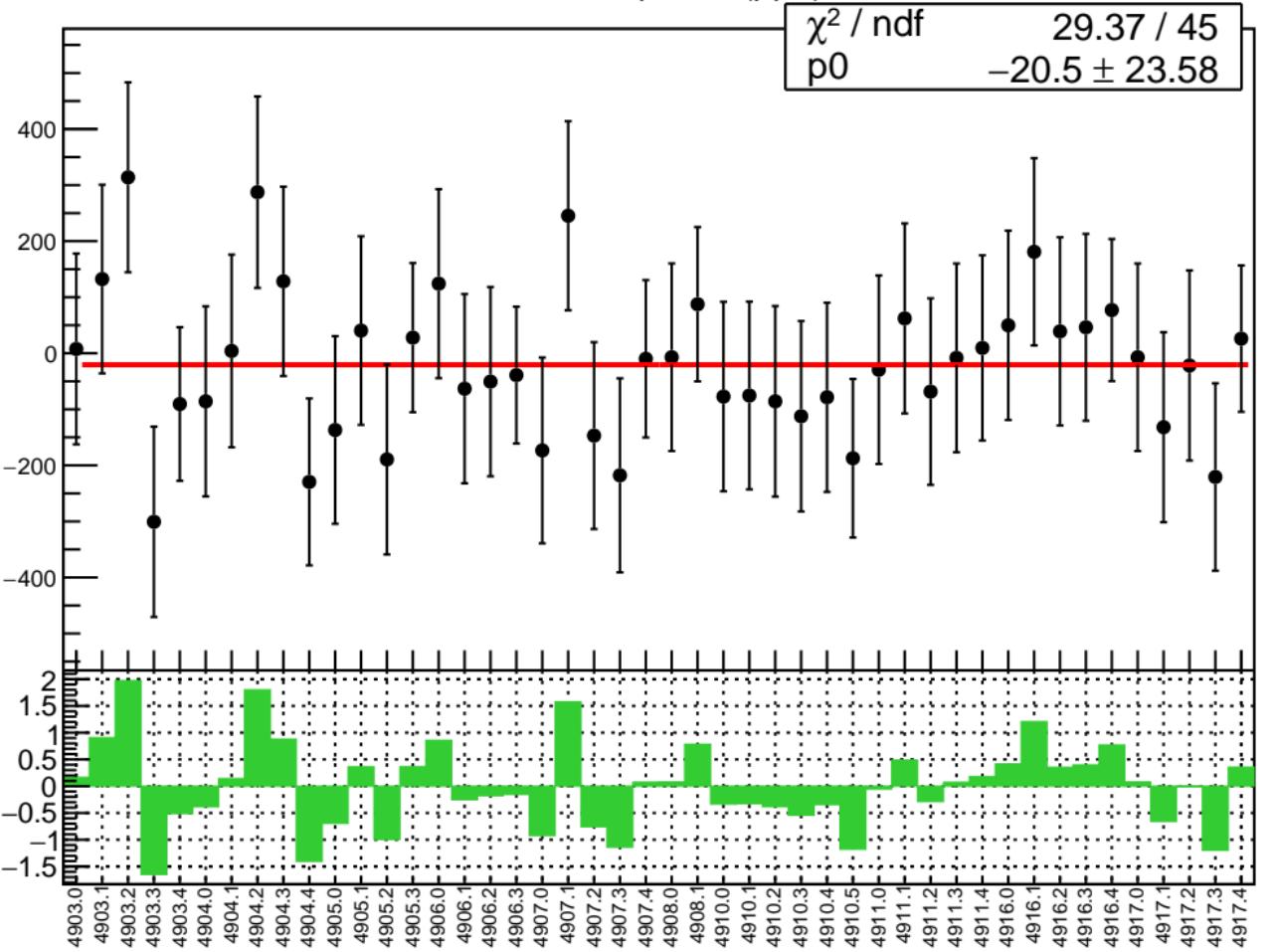
1D pull distribution



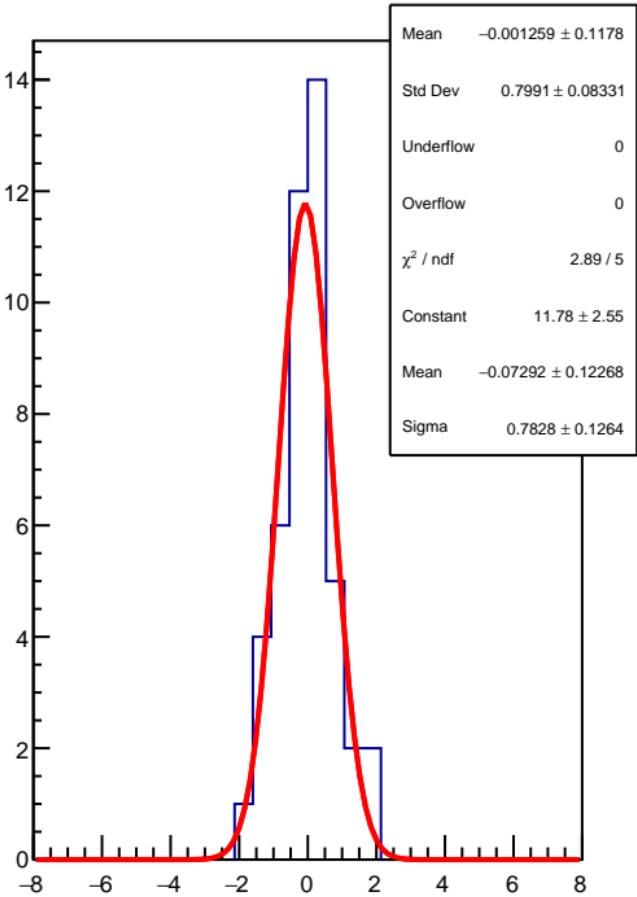
corr_Adet_bpm1X RMS (ppm)



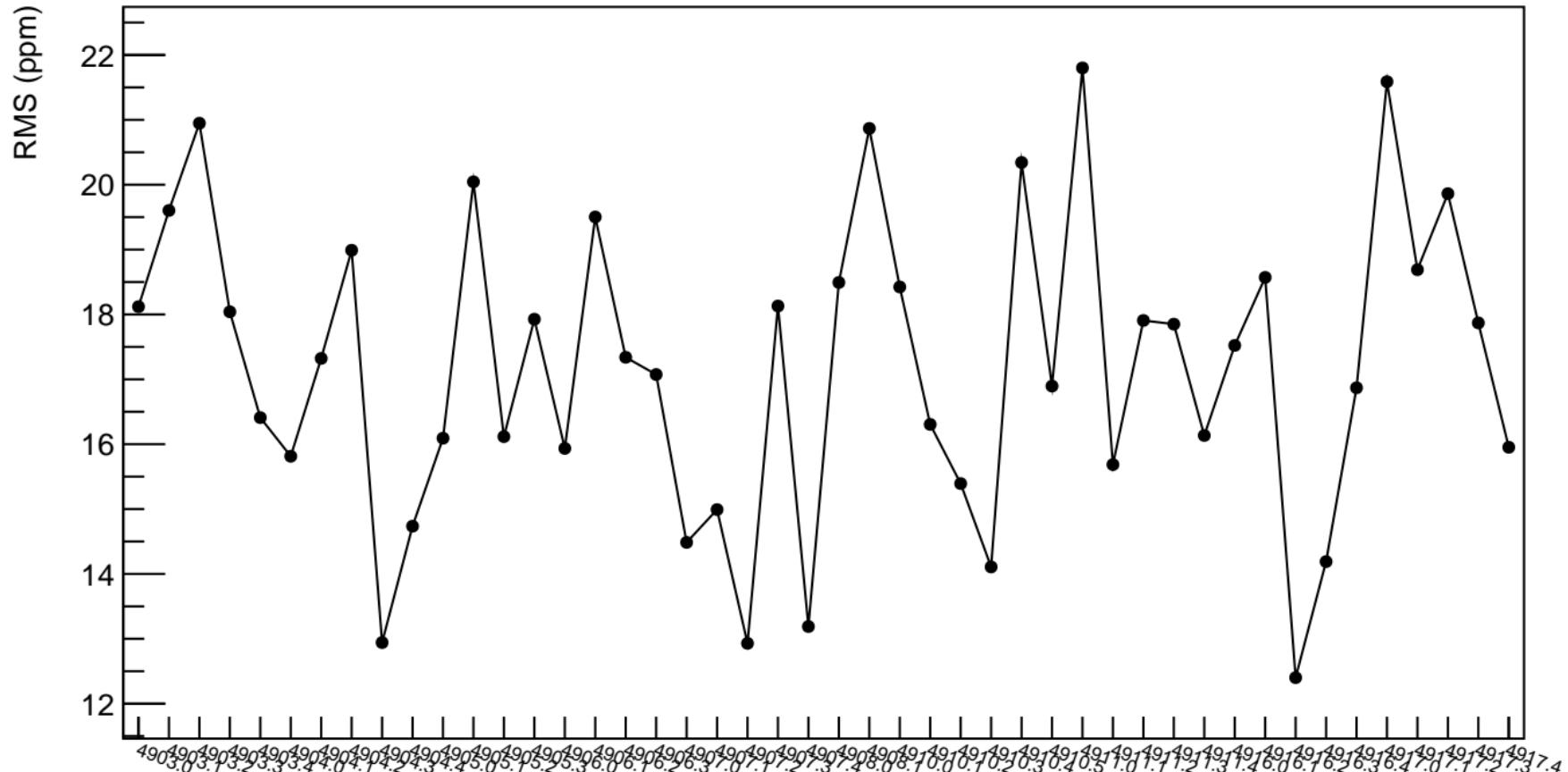
corr_Adet_bpm1Y (ppb)



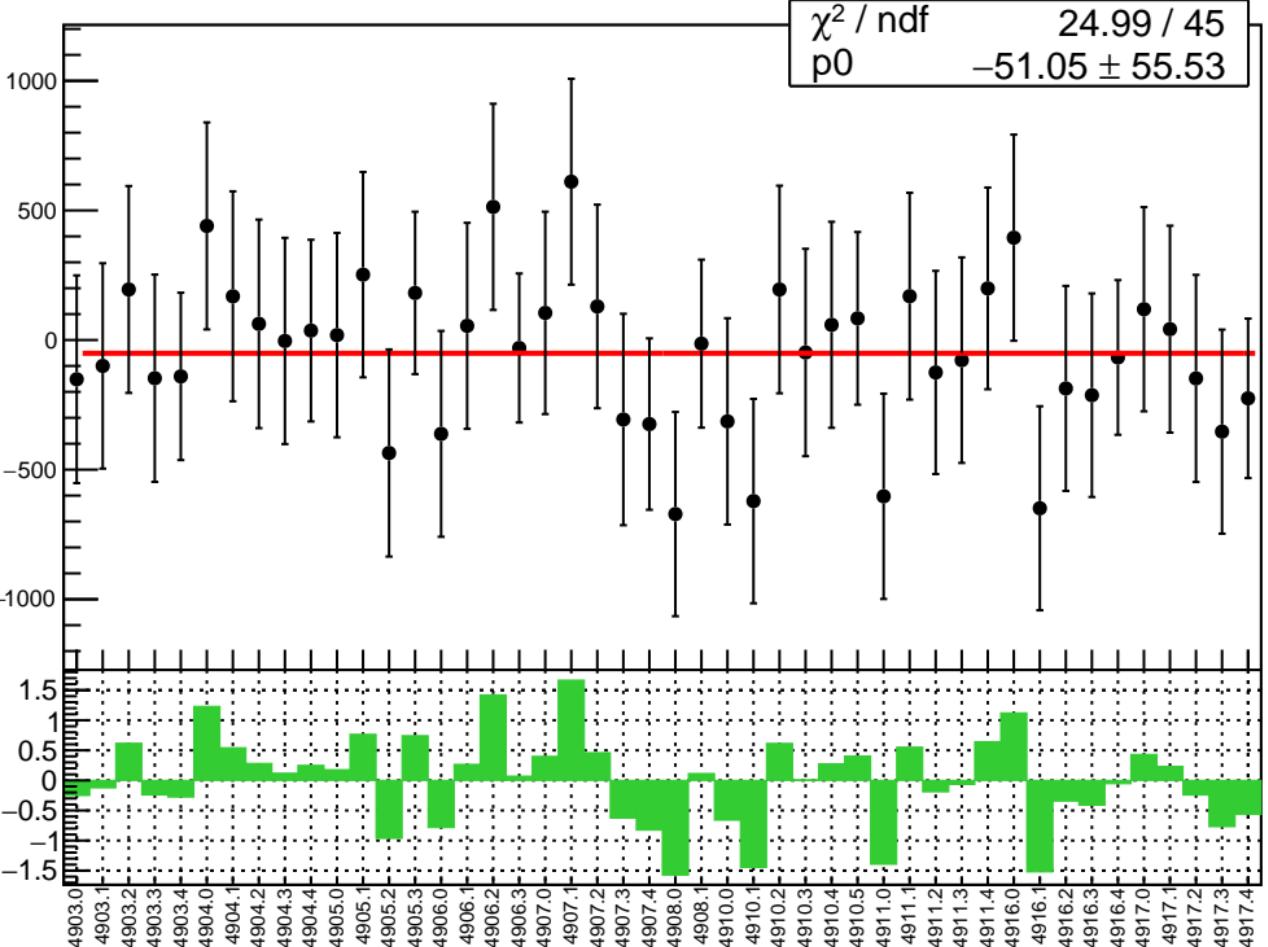
1D pull distribution



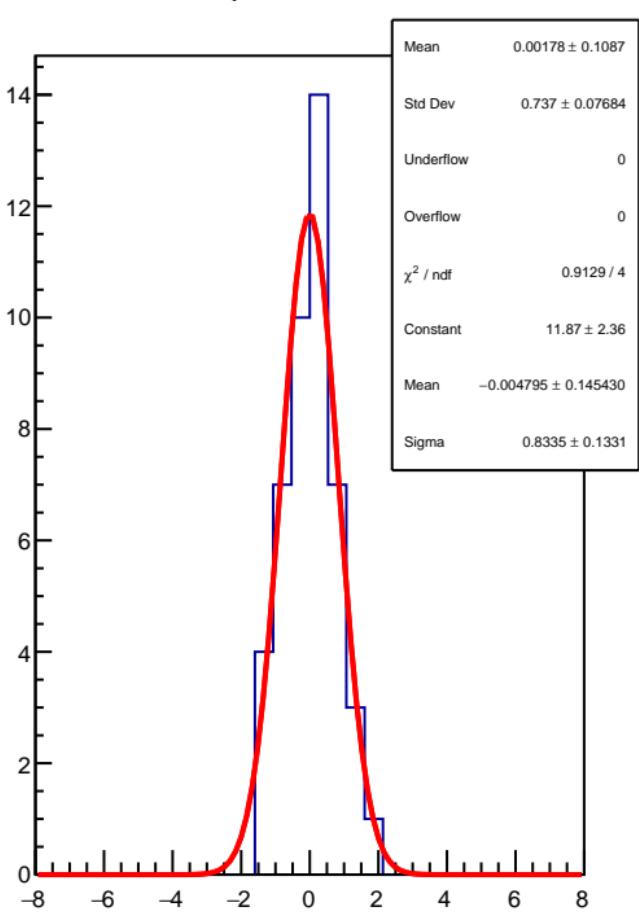
corr_Adet_bpm1Y RMS (ppm)



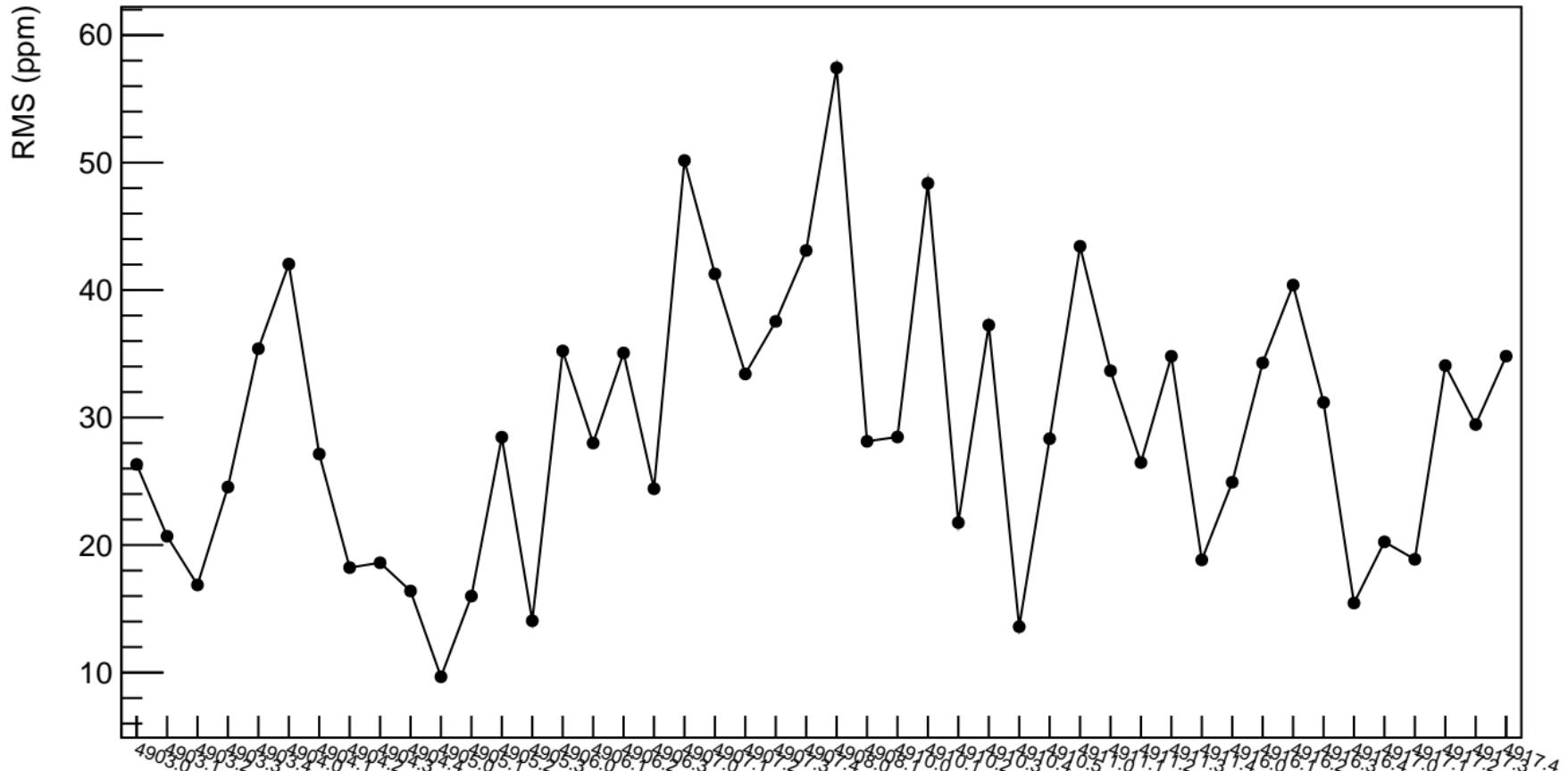
corr_Adet_bpm16X (ppb)



1D pull distribution

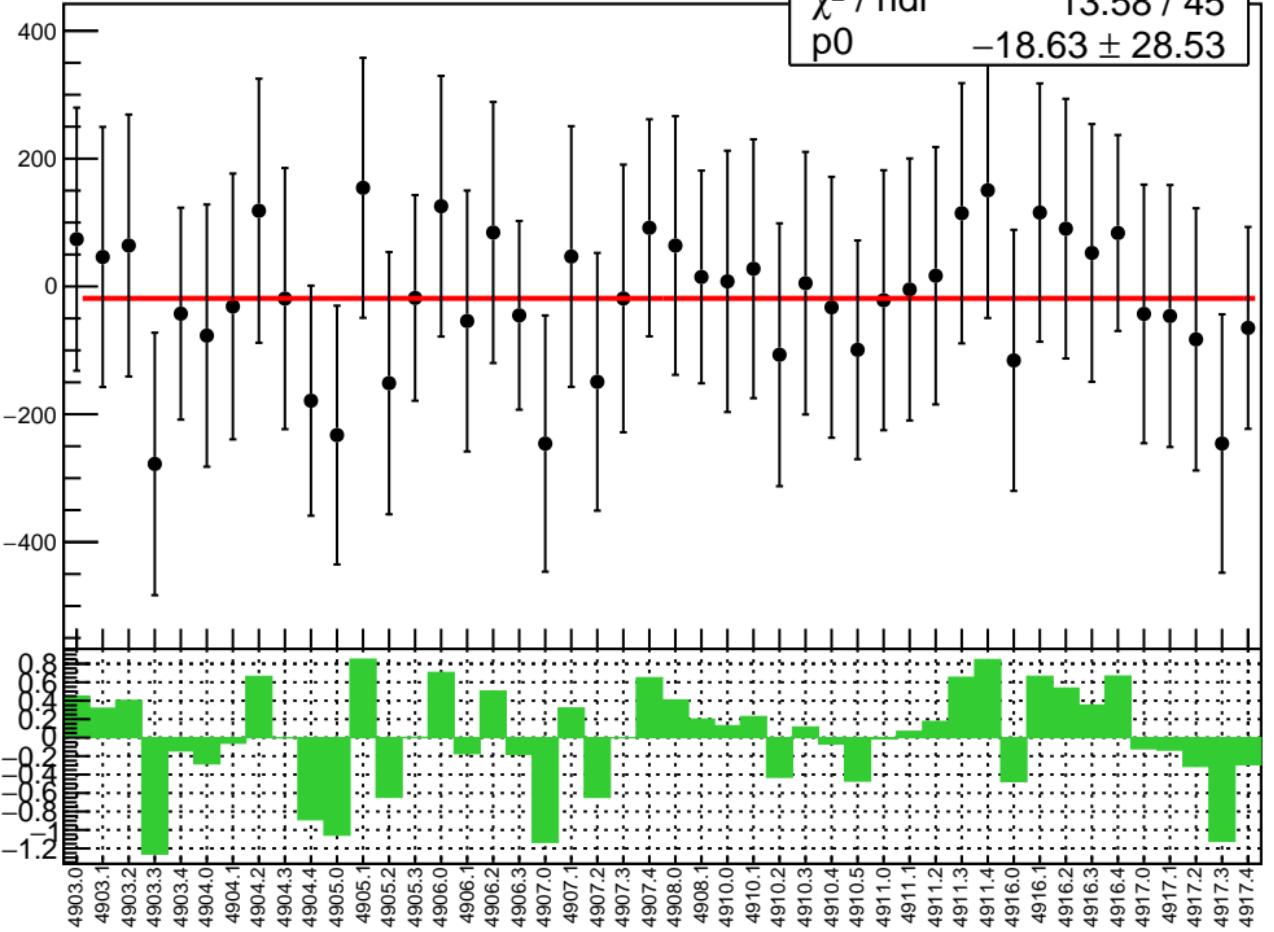


corr_Adet_bpm16X RMS (ppm)

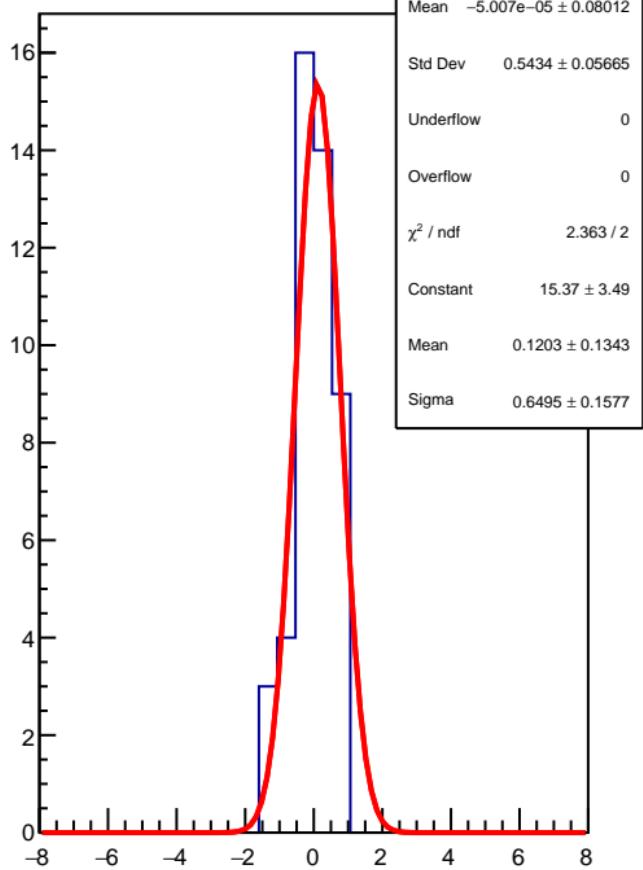


corr_Adet_bpm16Y (ppb)

χ^2 / ndf 13.58 / 45
 p_0 -18.63 ± 28.53

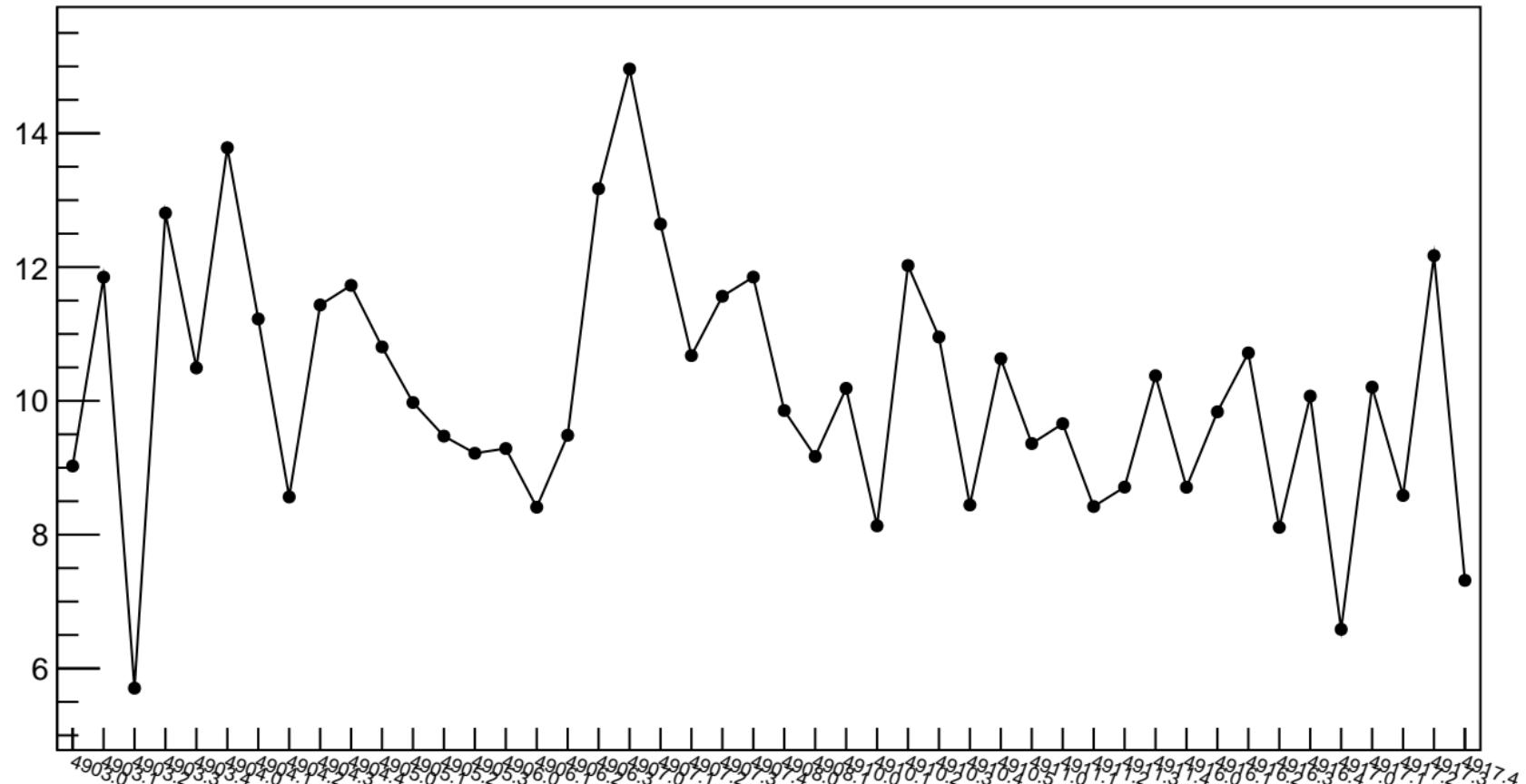


1D pull distribution

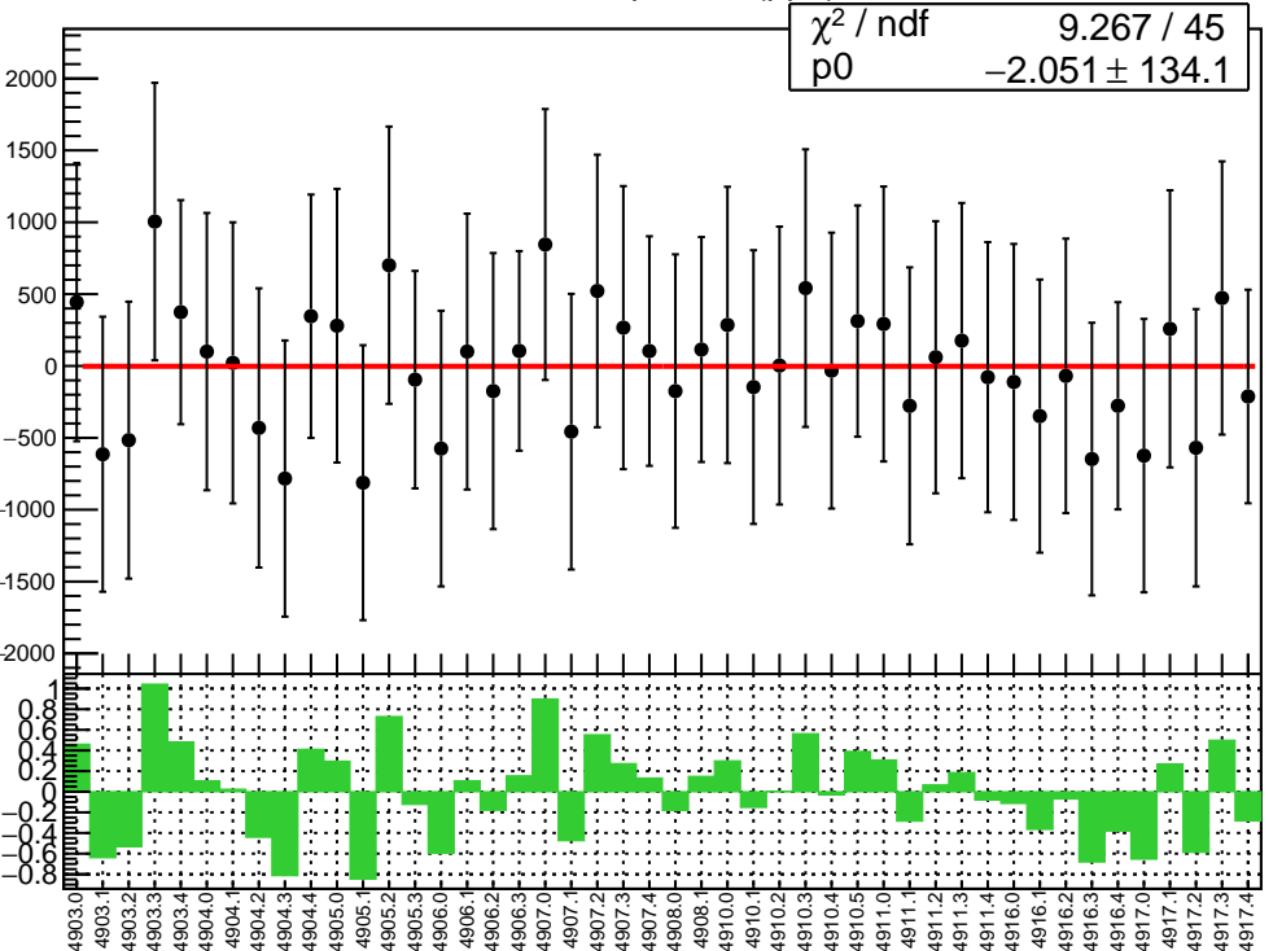


corr_Adet_bpm16Y RMS (ppm)

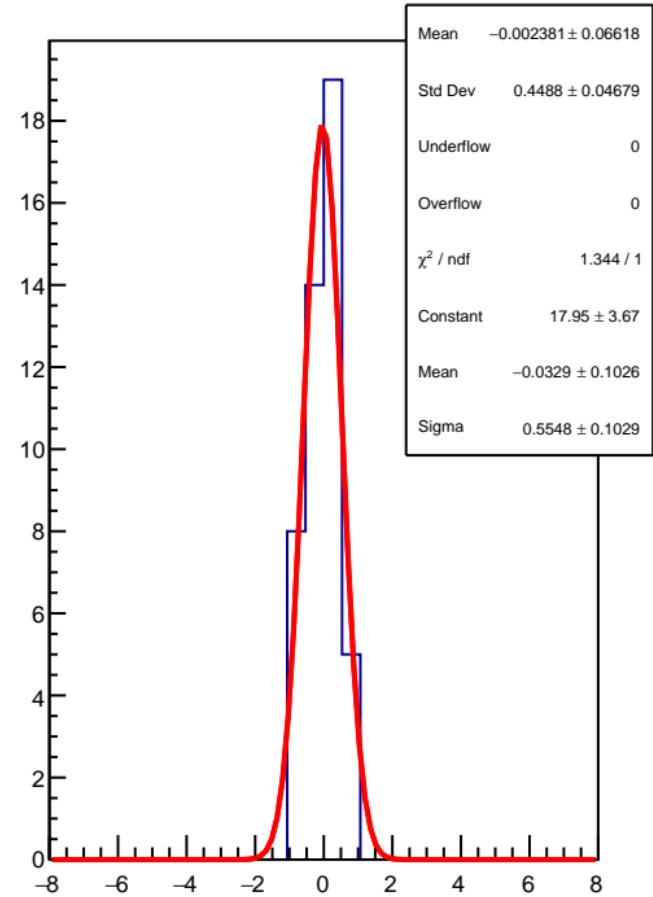
RMS (ppm)



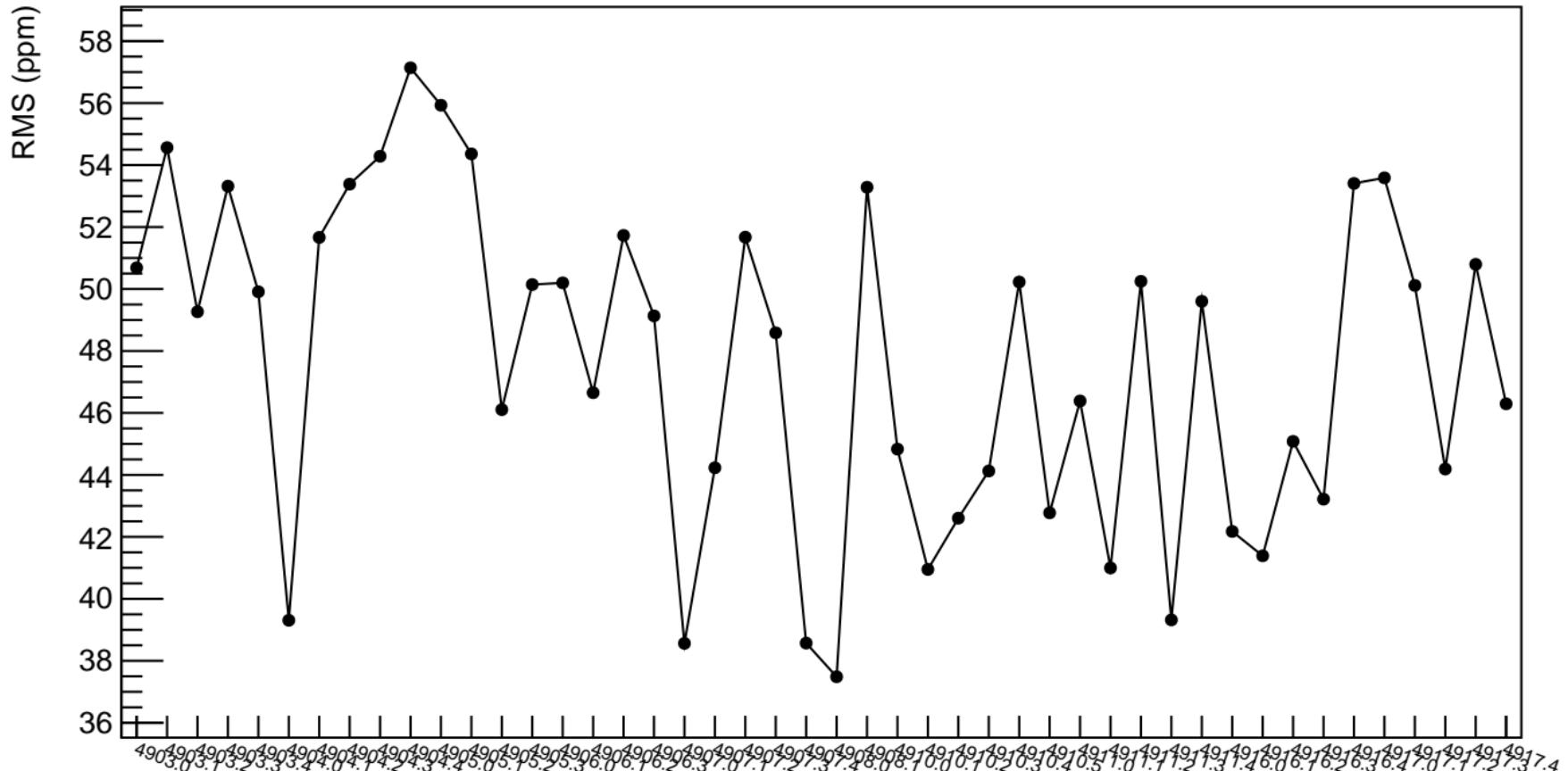
corr_Adet_bpm12X (ppb)



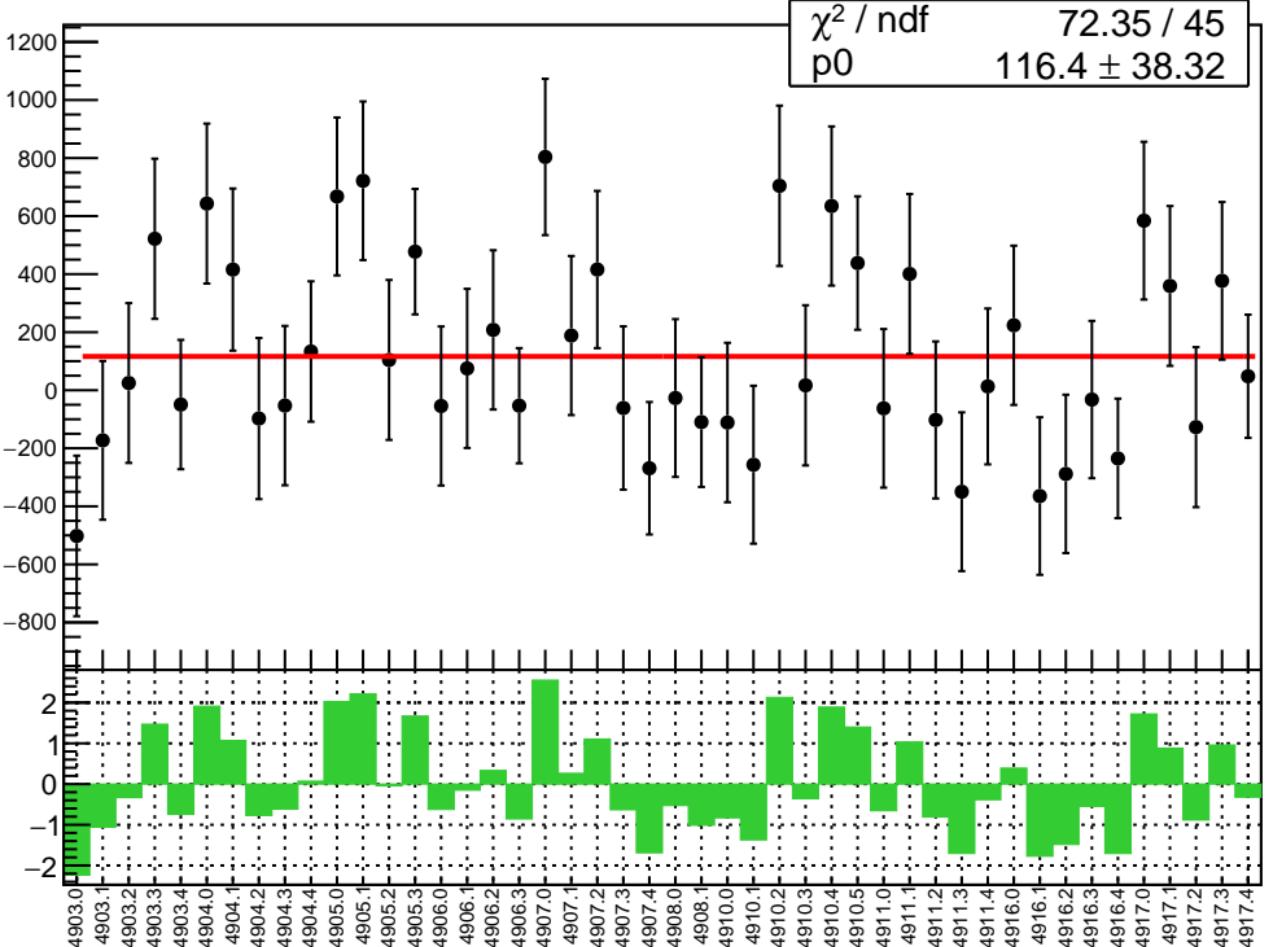
1D pull distribution



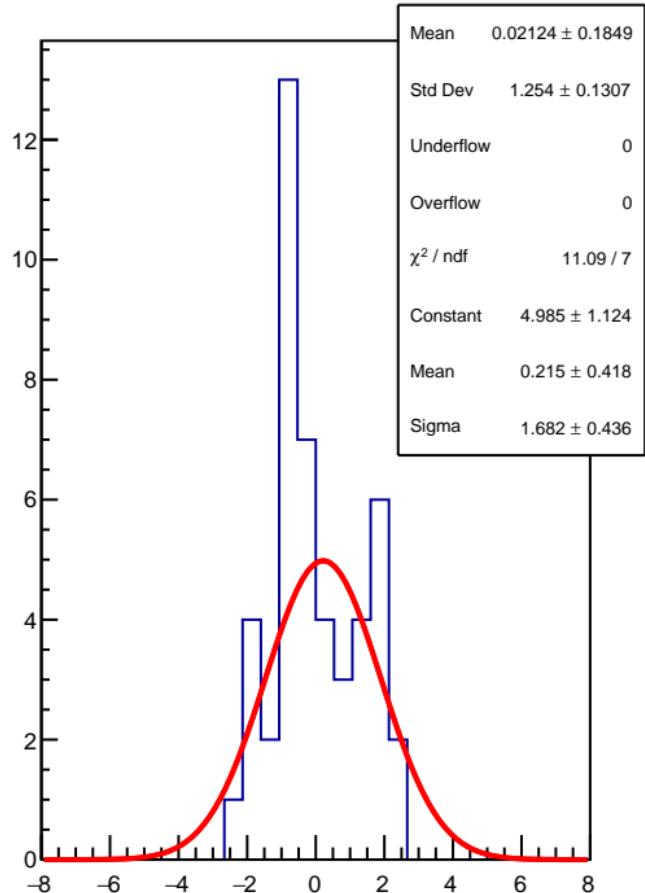
corr_Adet_bpm12X RMS (ppm)



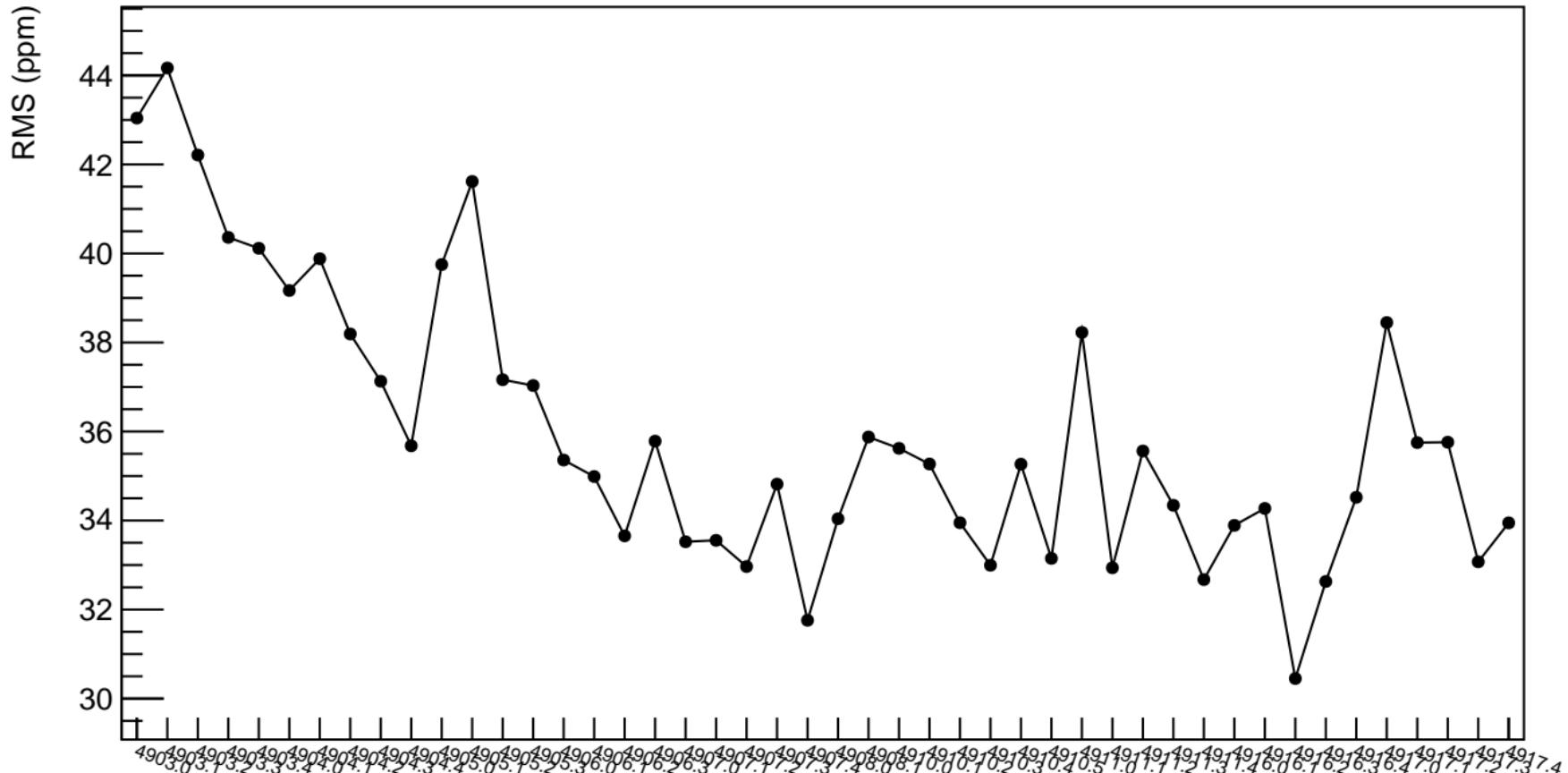
corr_Adet_bpm12Y (ppb)



1D pull distribution

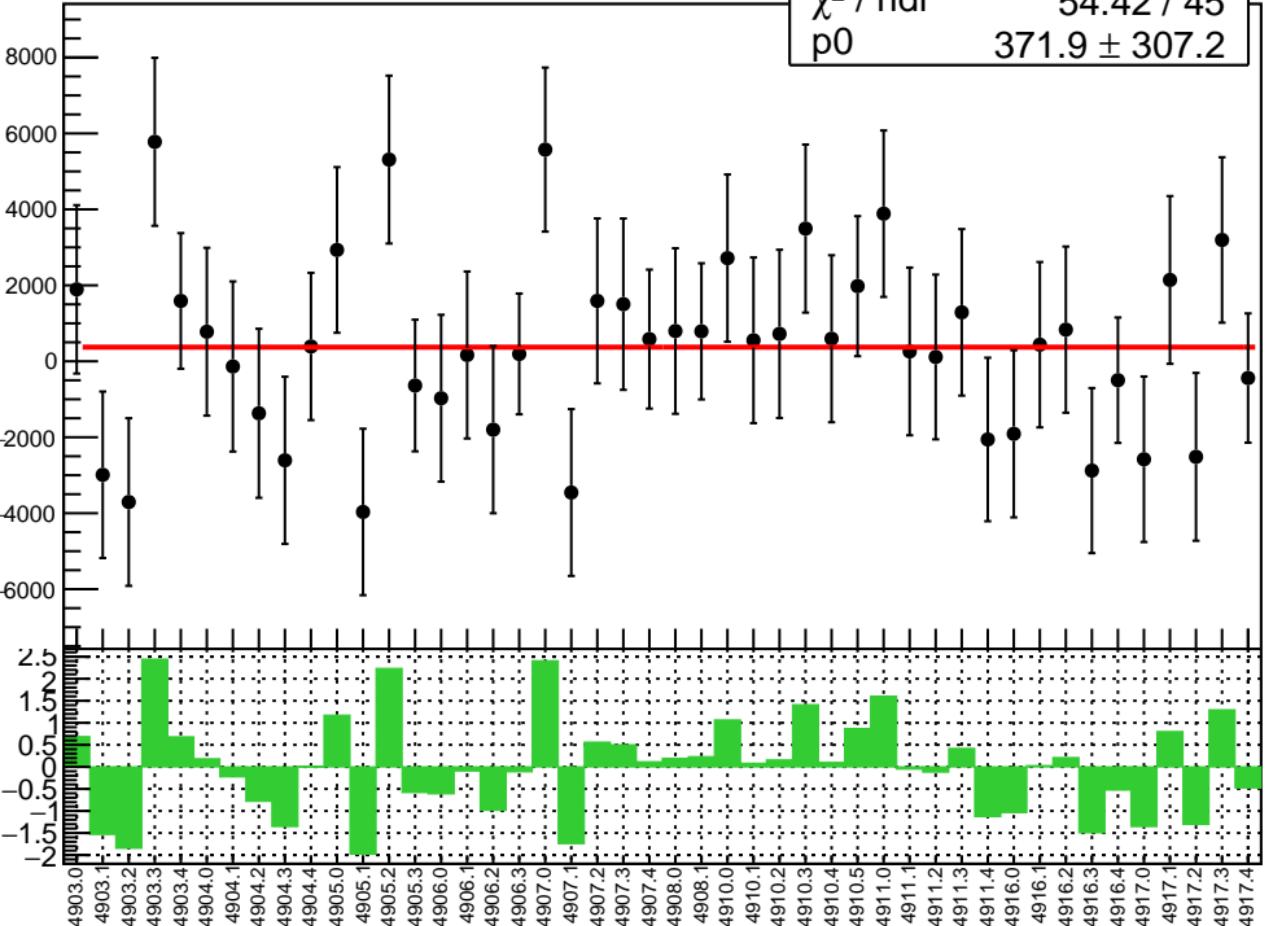


corr_Adet_bpm12Y RMS (ppm)

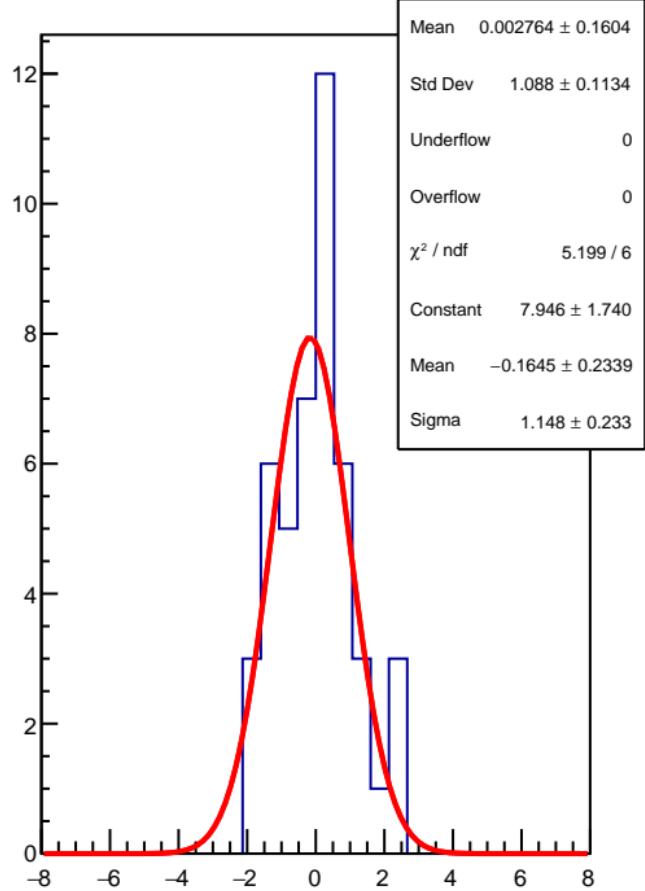


corr_Adet_bpm11X (ppb)

χ^2 / ndf 54.42 / 45
p0 371.9 ± 307.2

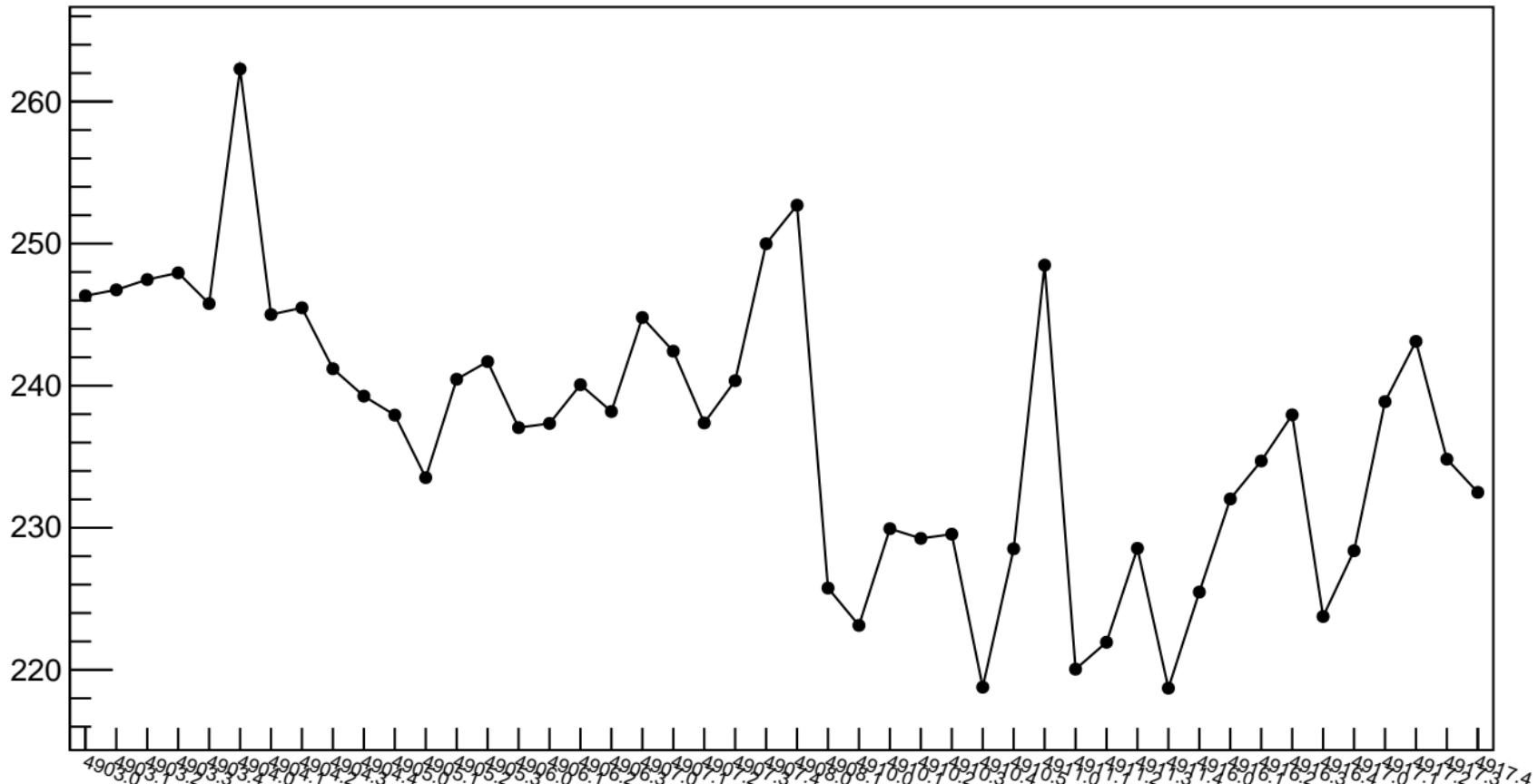


1D pull distribution



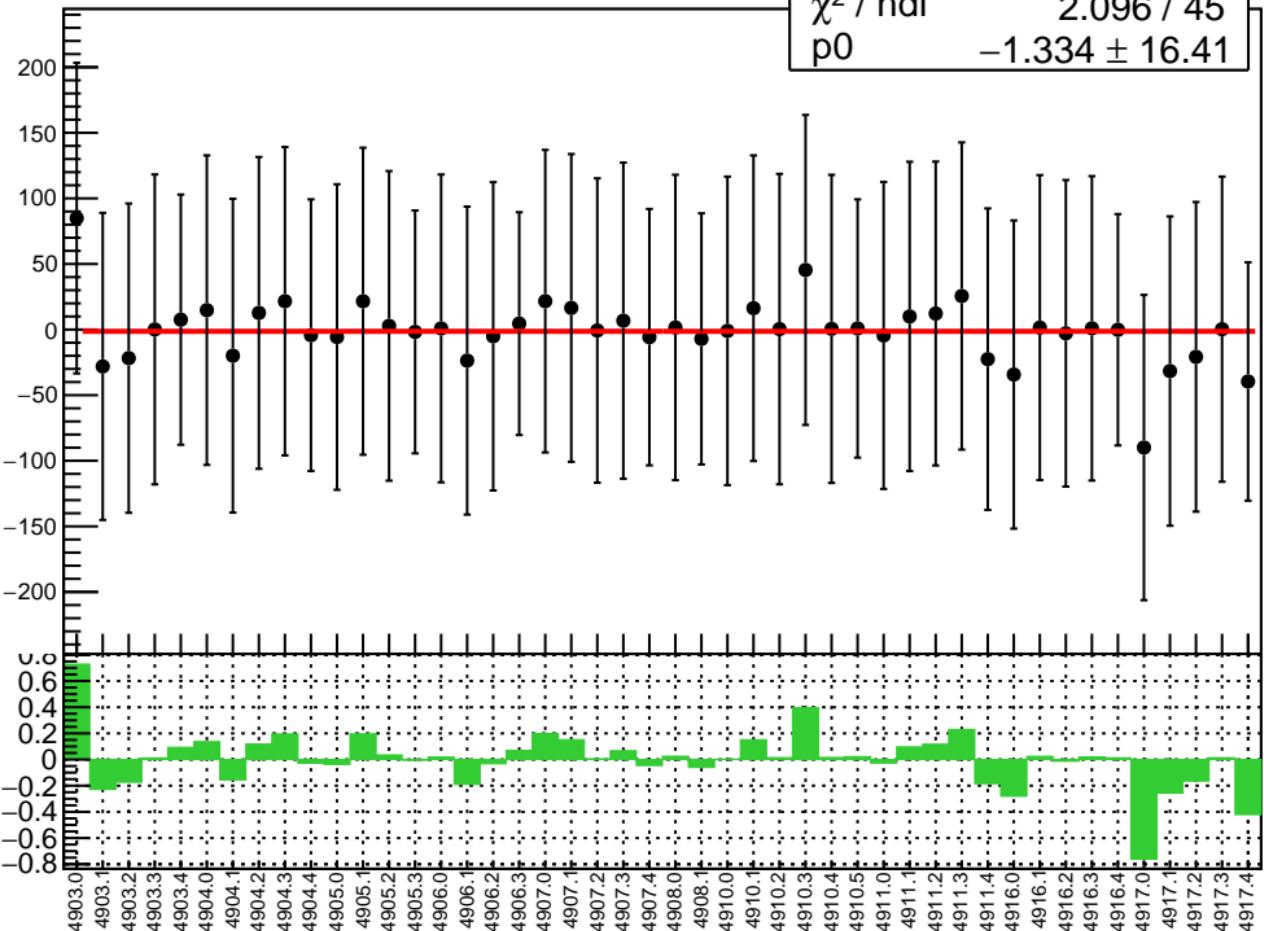
corr_Adet_bpm11X RMS (ppm)

RMS (ppm)

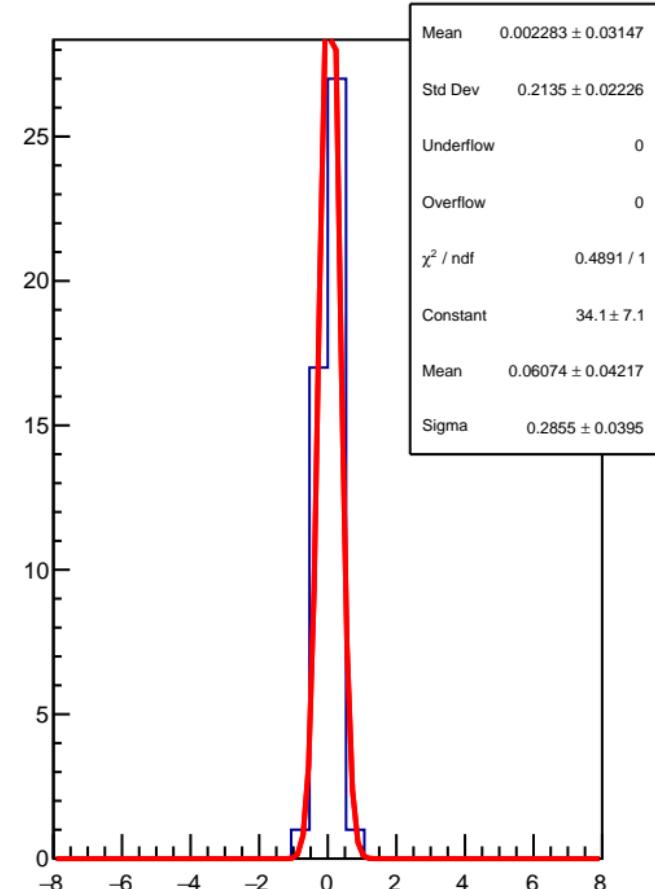


corr_Adet_bpm11Y (ppb)

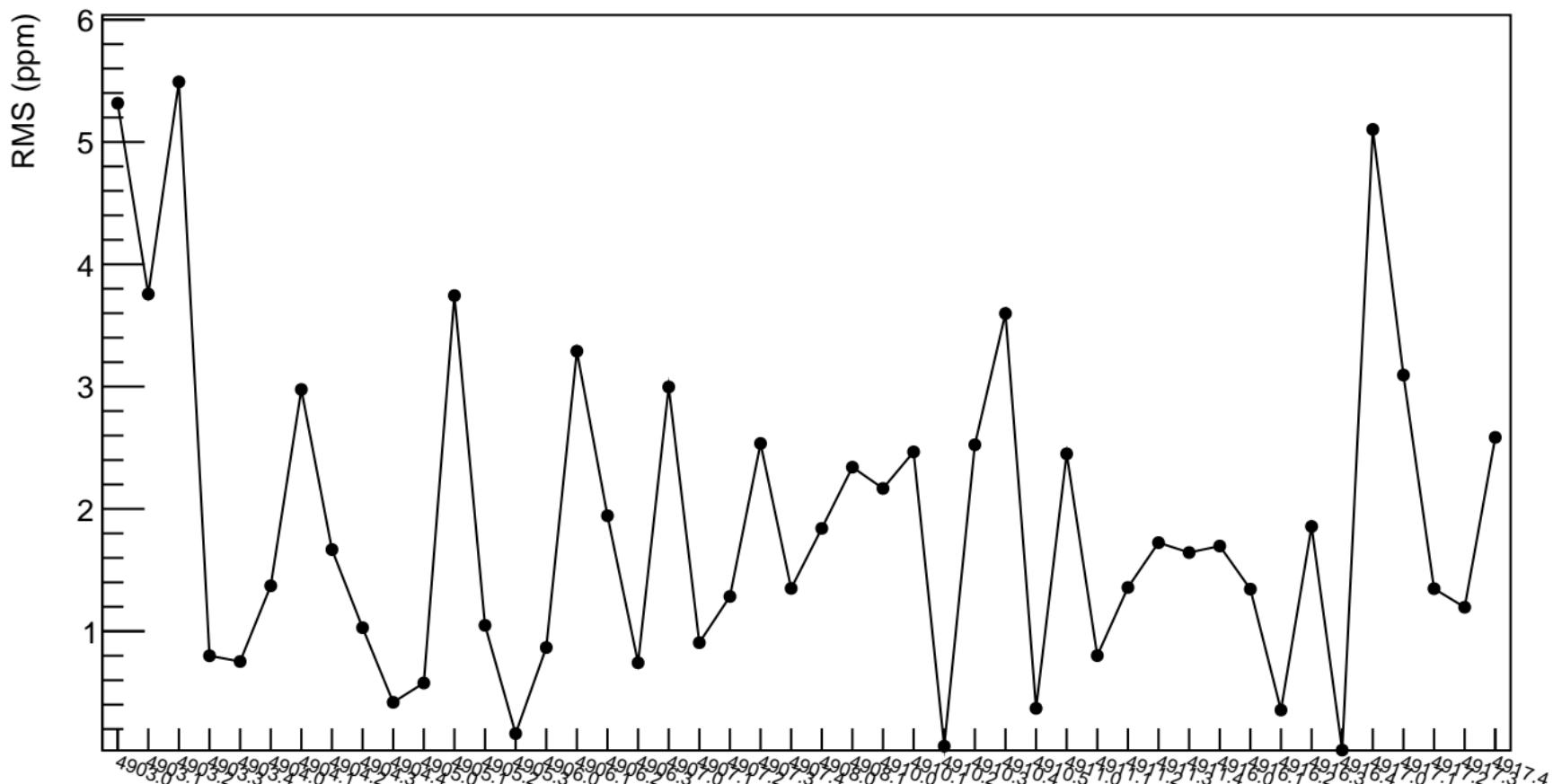
χ^2 / ndf 2.096 / 45
 p_0 -1.334 ± 16.41



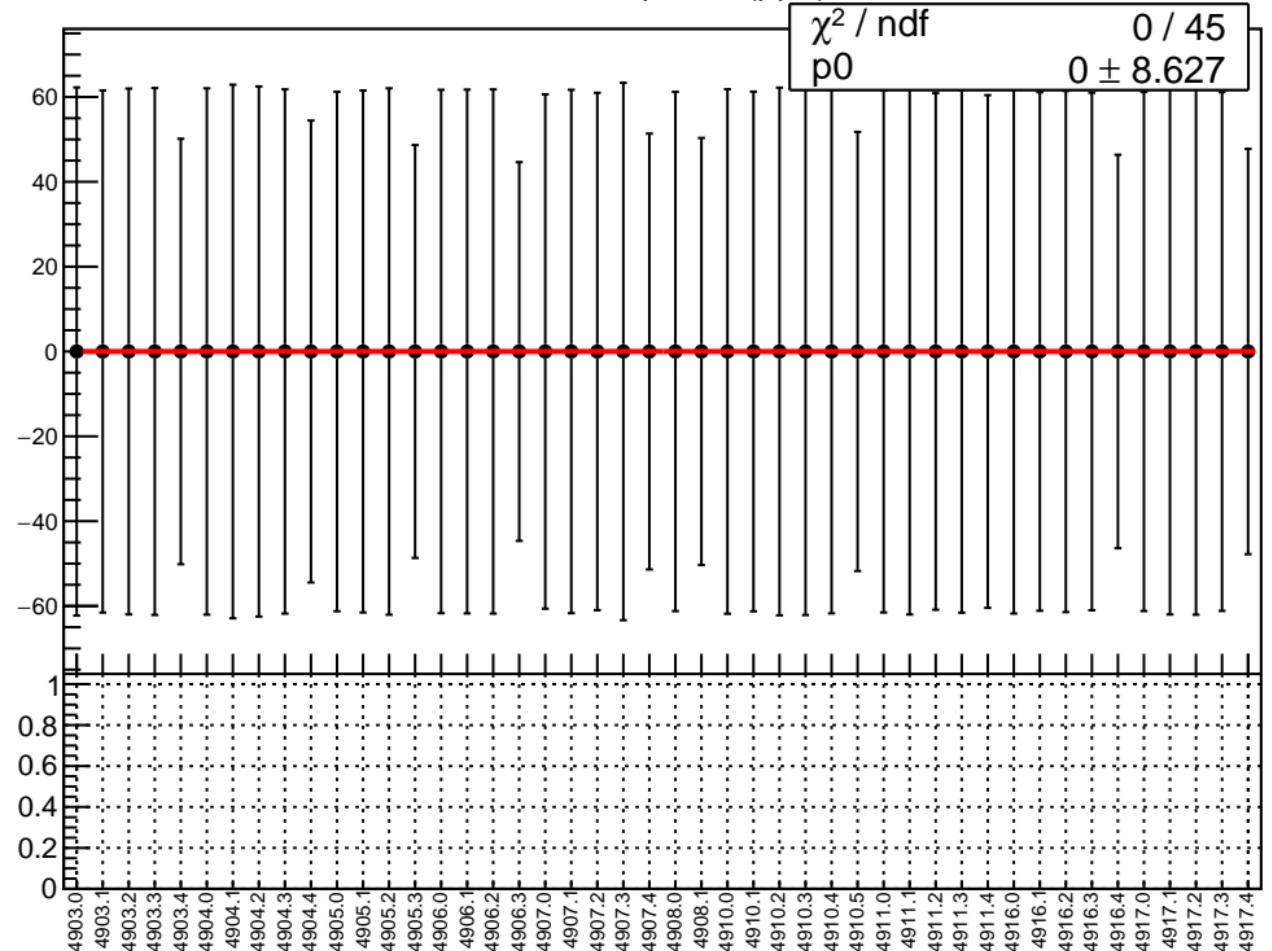
1D pull distribution



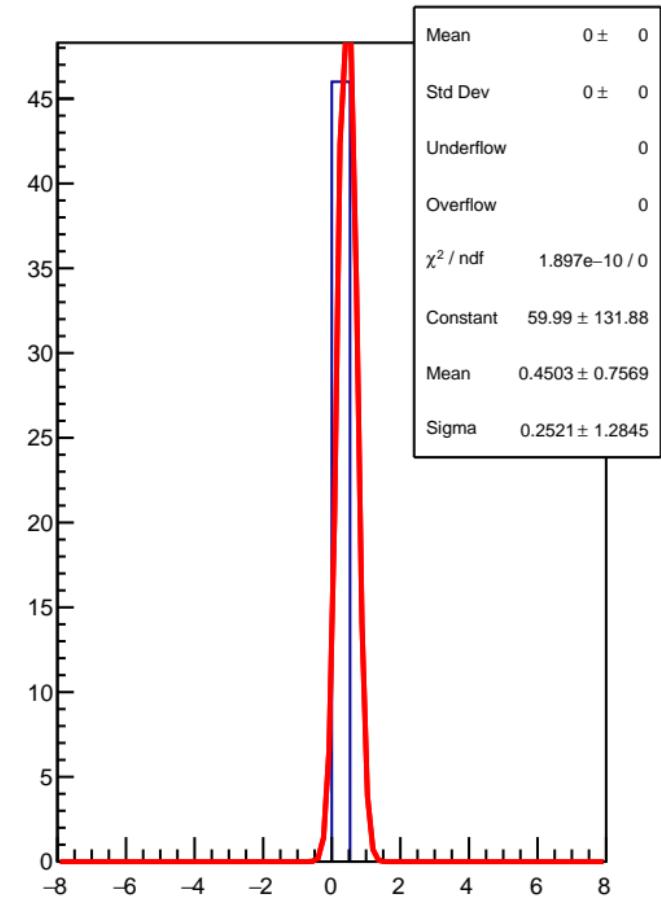
corr_Adet_bpm11Y RMS (ppm)



corr_Adet_bpm8X (ppb)

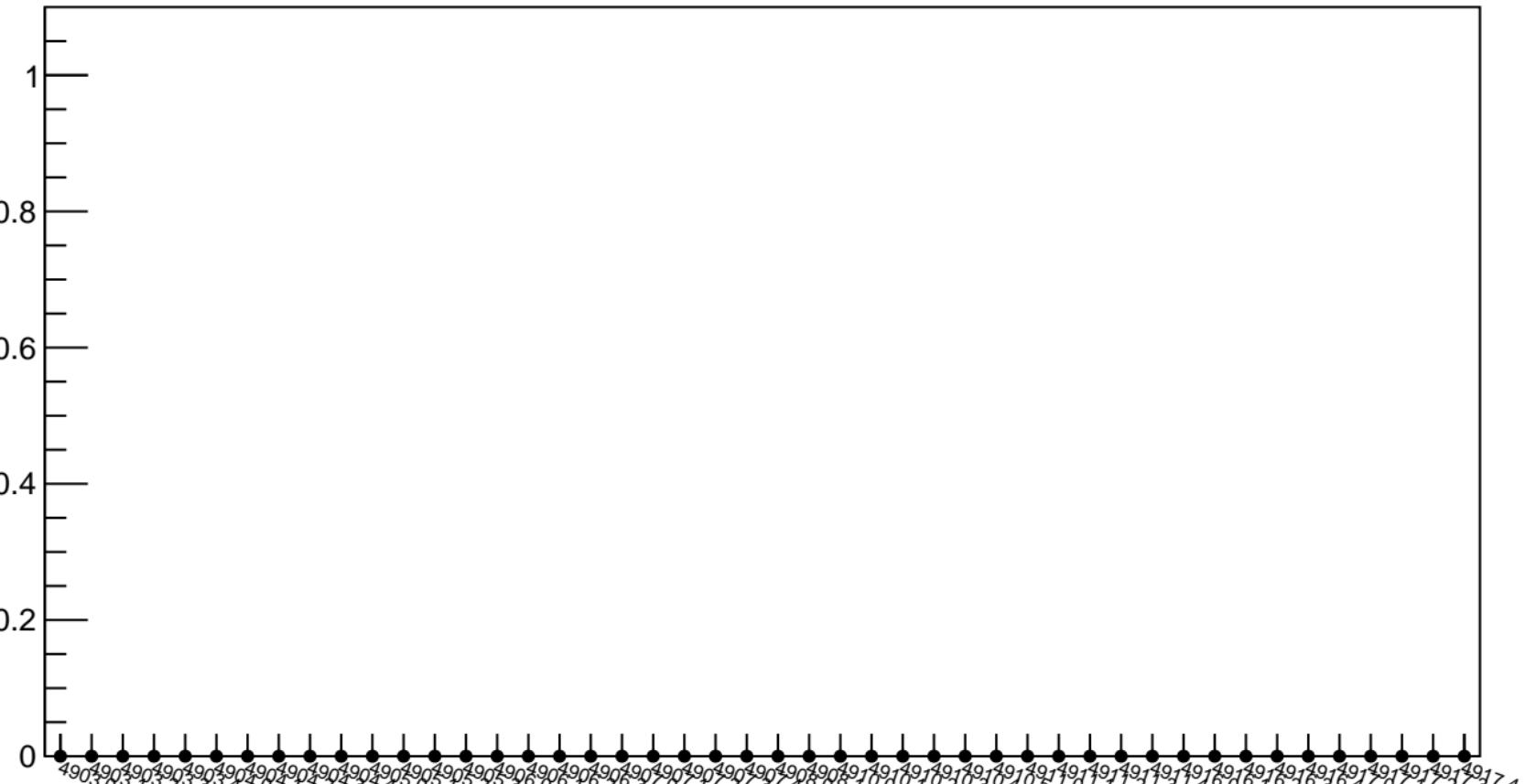


1D pull distribution

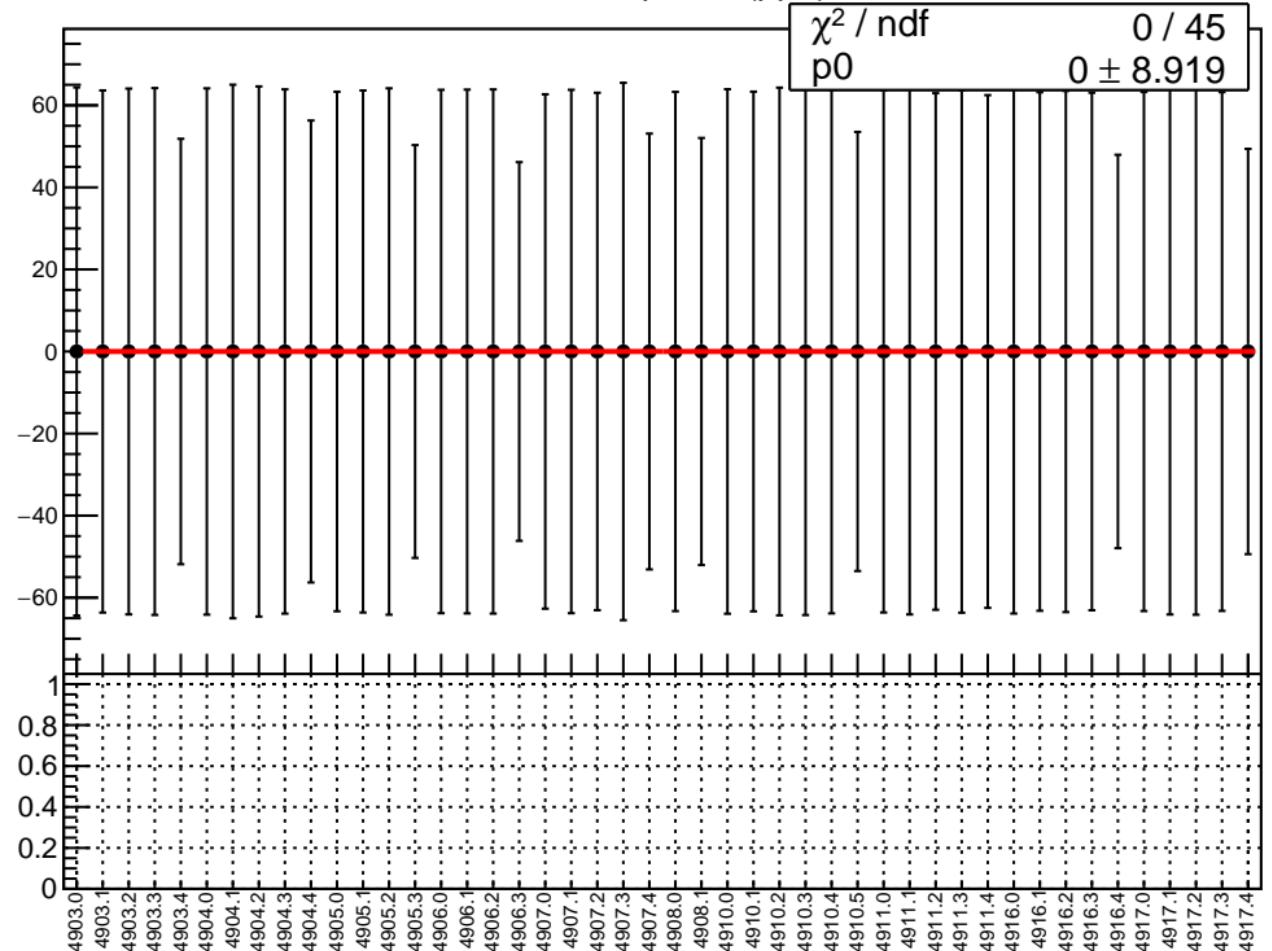


corr_Adet_bpm8X RMS (ppm)

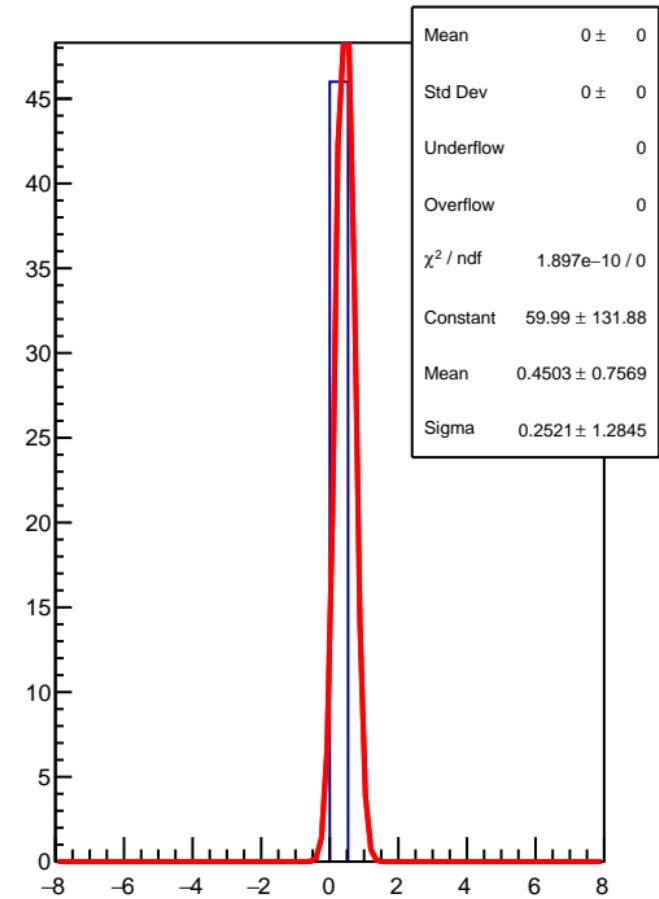
RMS (ppm)



corr_Adet_bpm8Y (ppb)

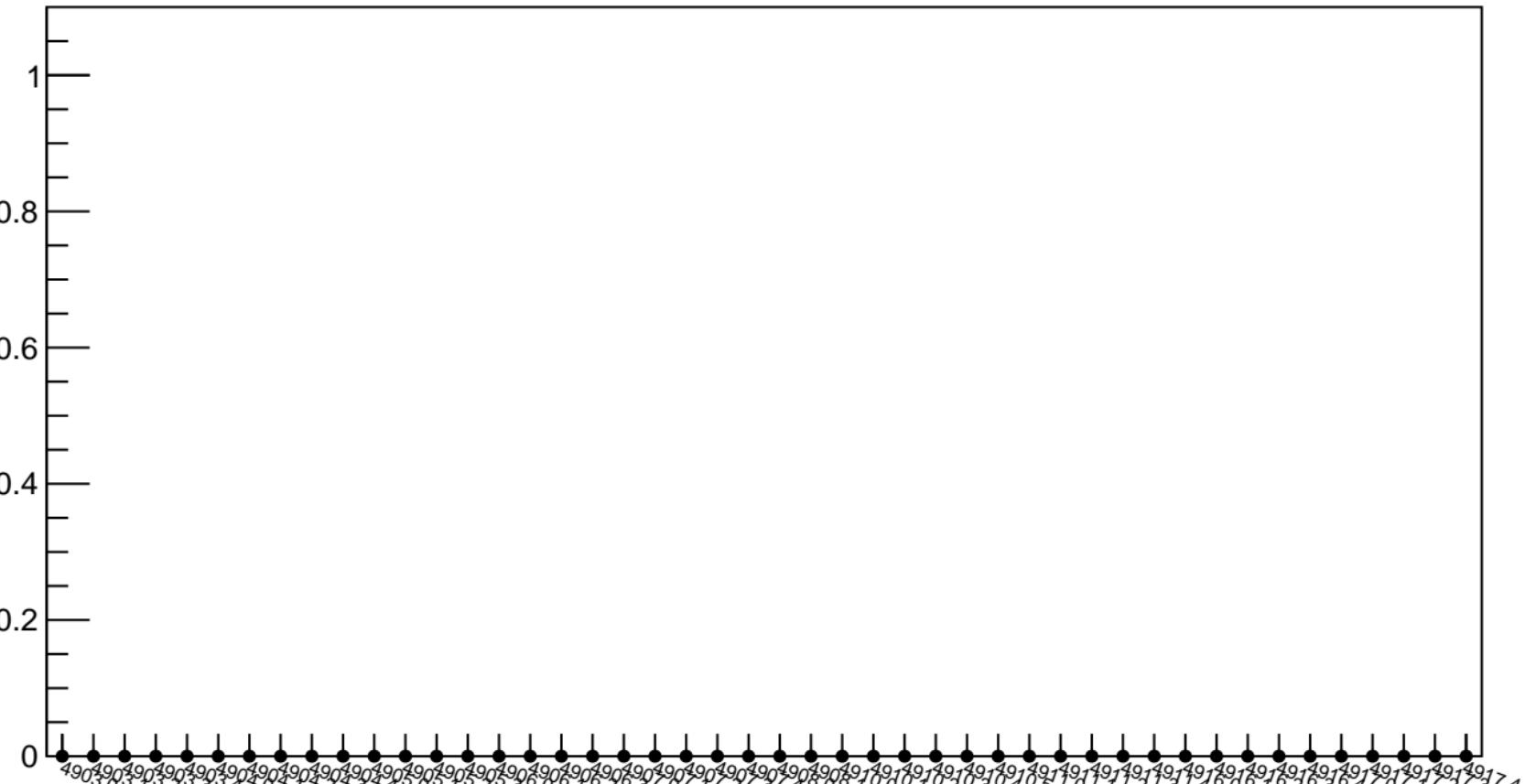


1D pull distribution

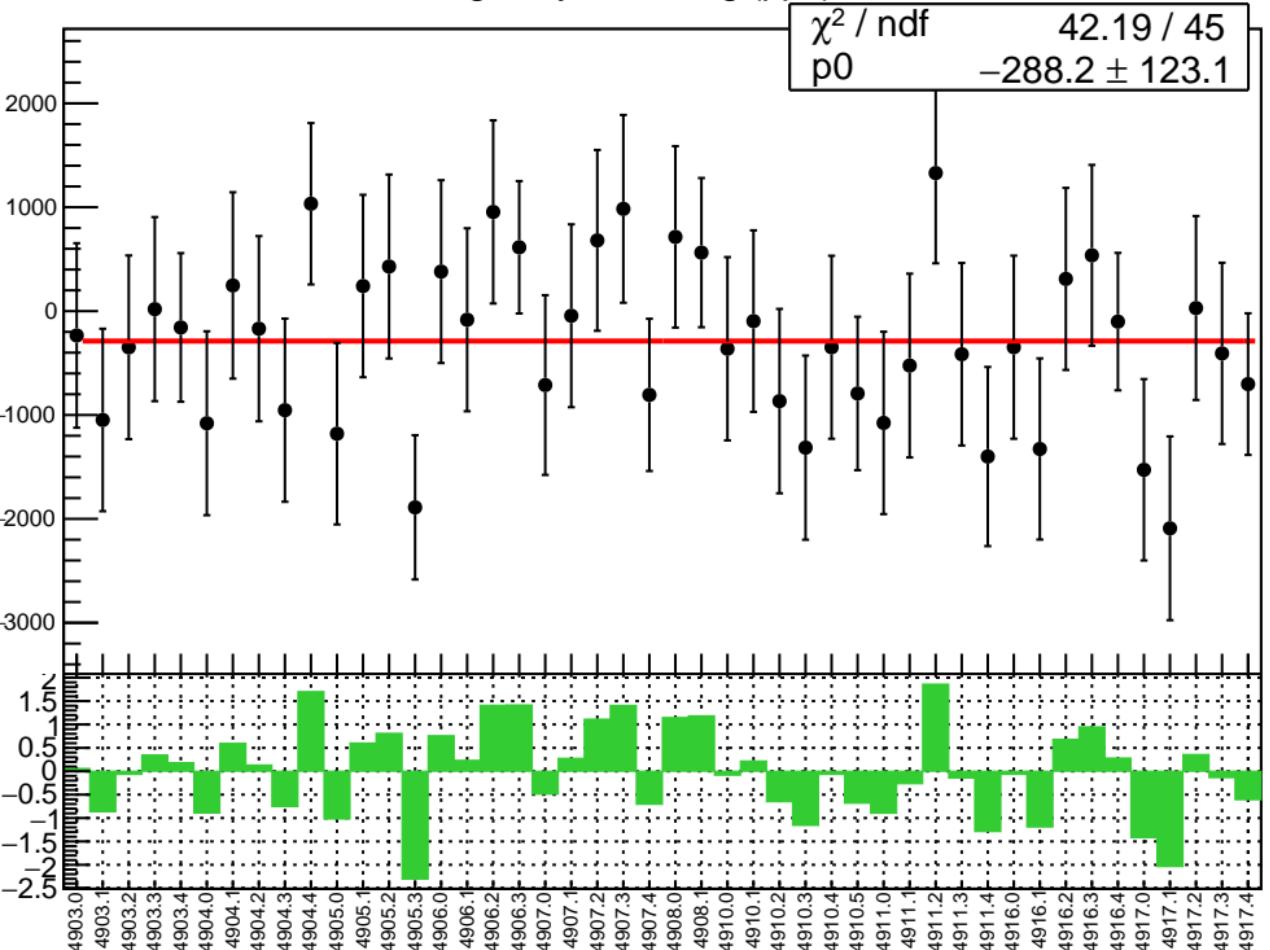


corr_Adet_bpm8Y RMS (ppm)

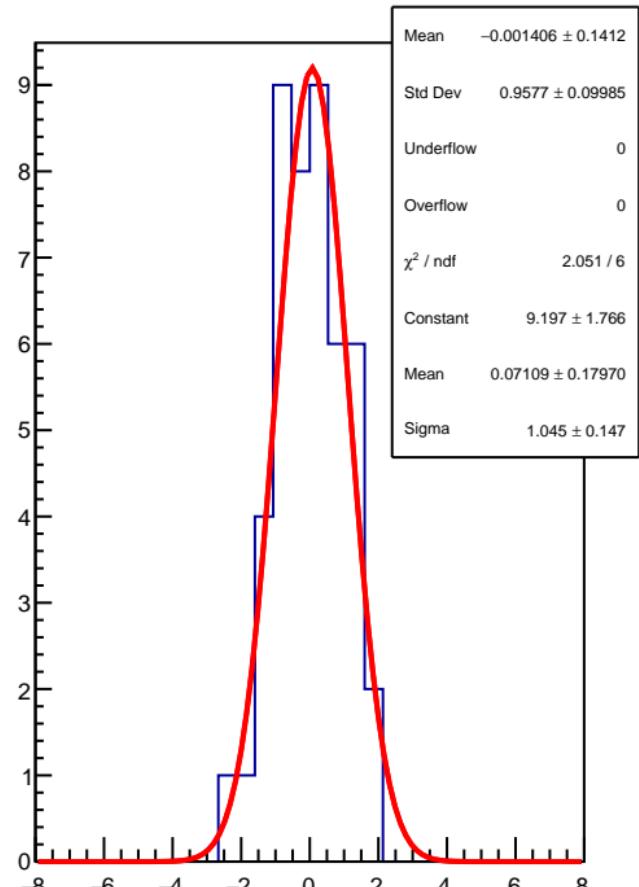
RMS (ppm)



lagr_asym_us_avg (ppb)

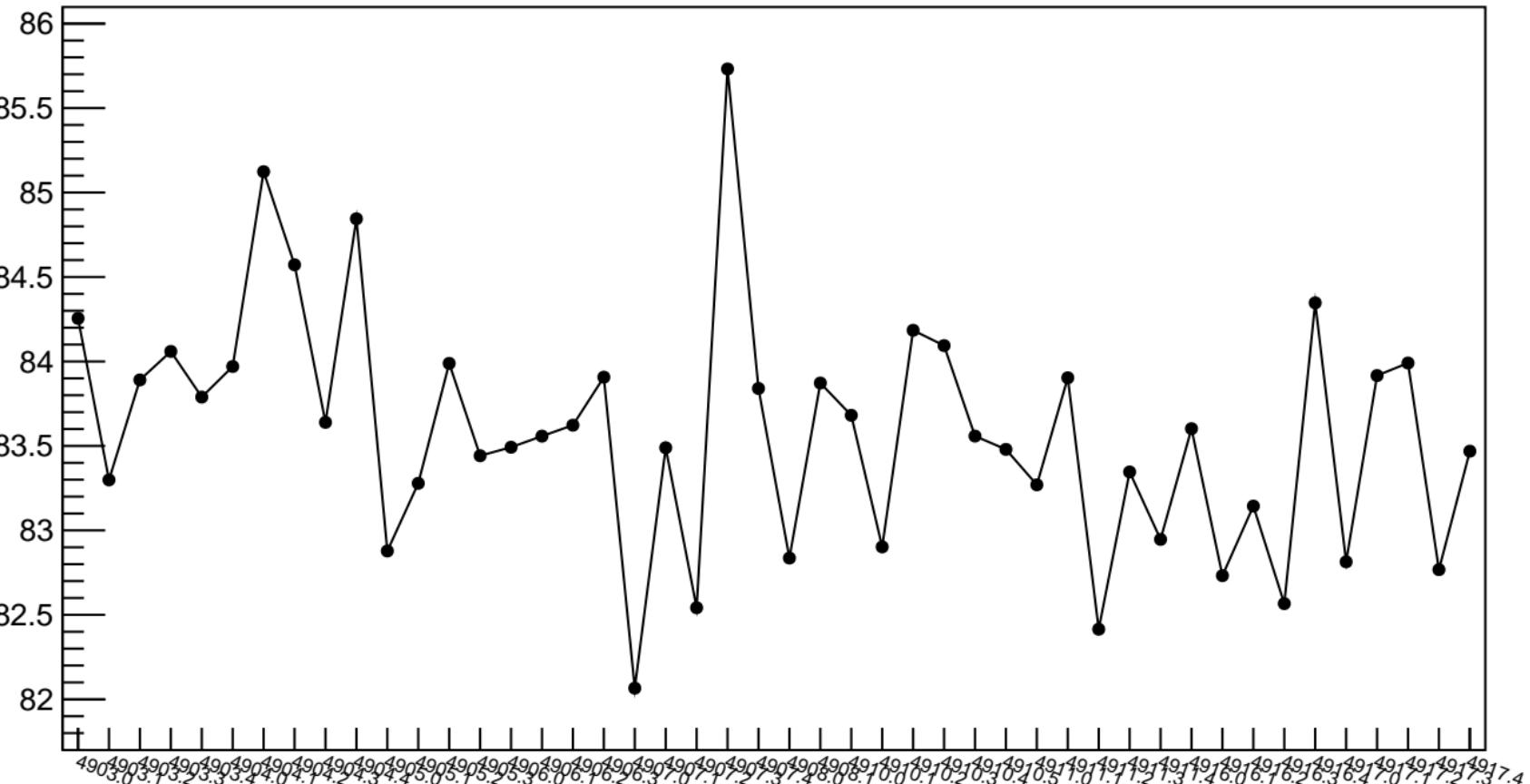


1D pull distribution

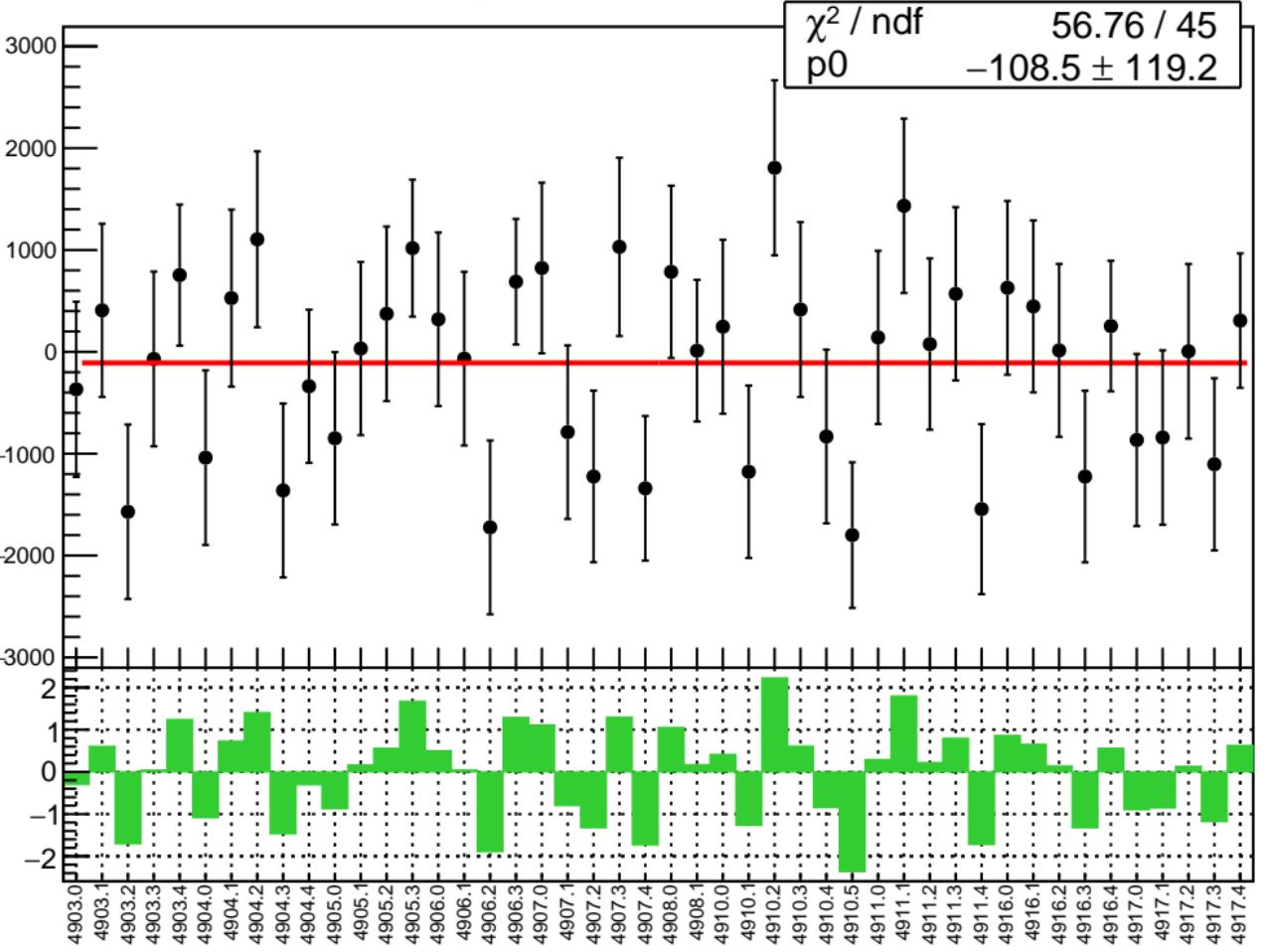


lagr_asym_us_avg RMS (ppm)

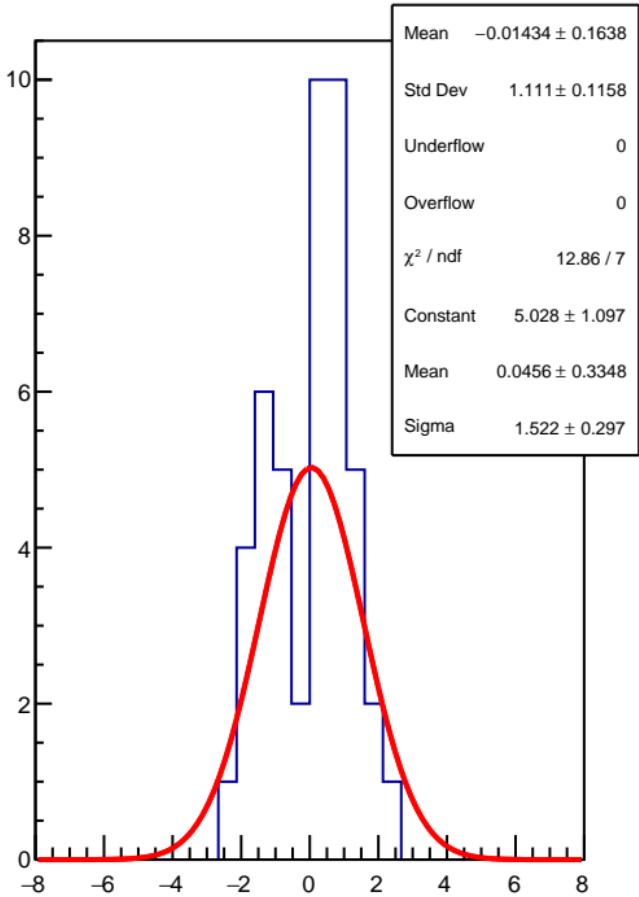
RMS (ppm)



lagr_asym_us_dd (ppb)

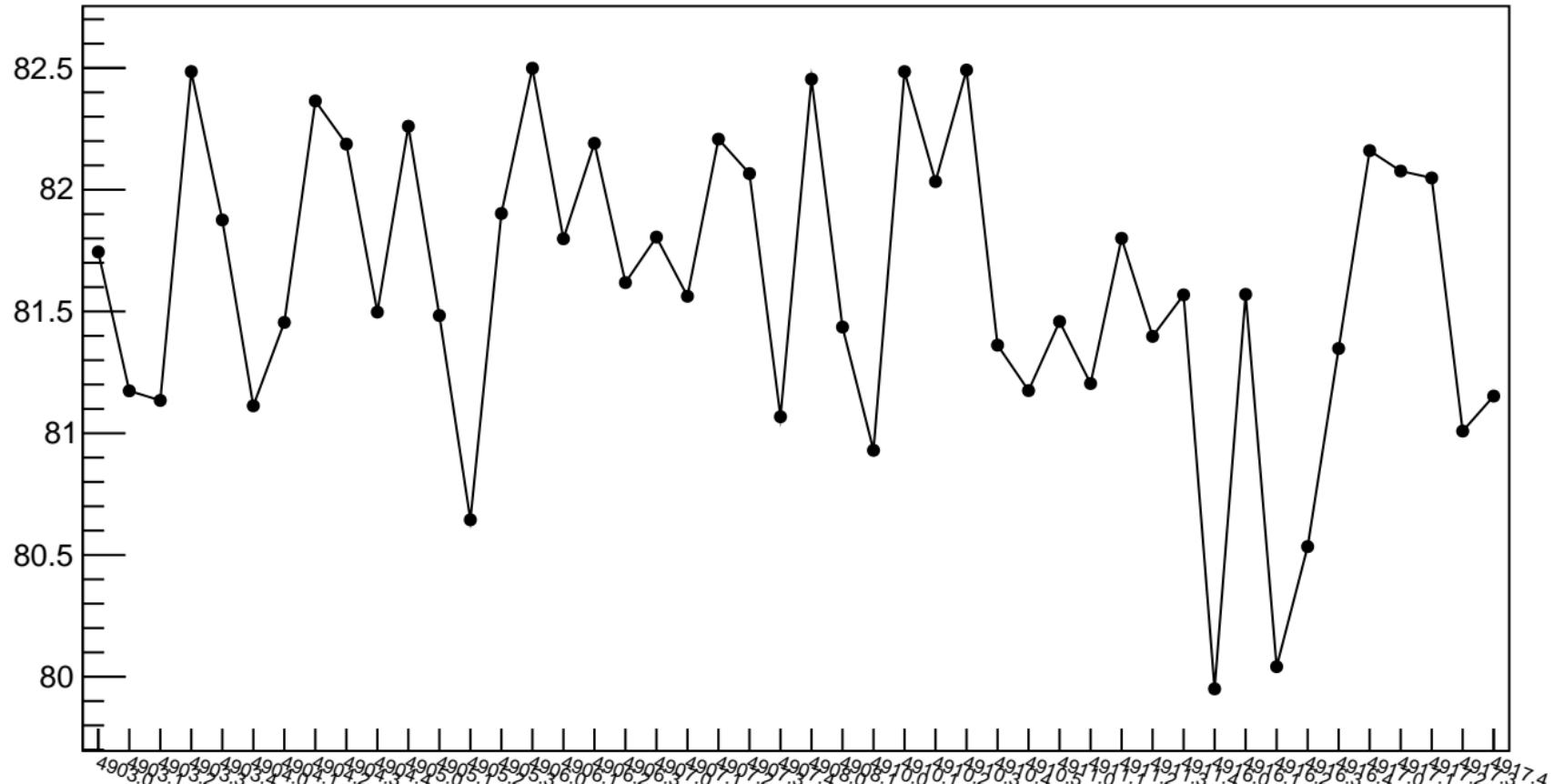


1D pull distribution



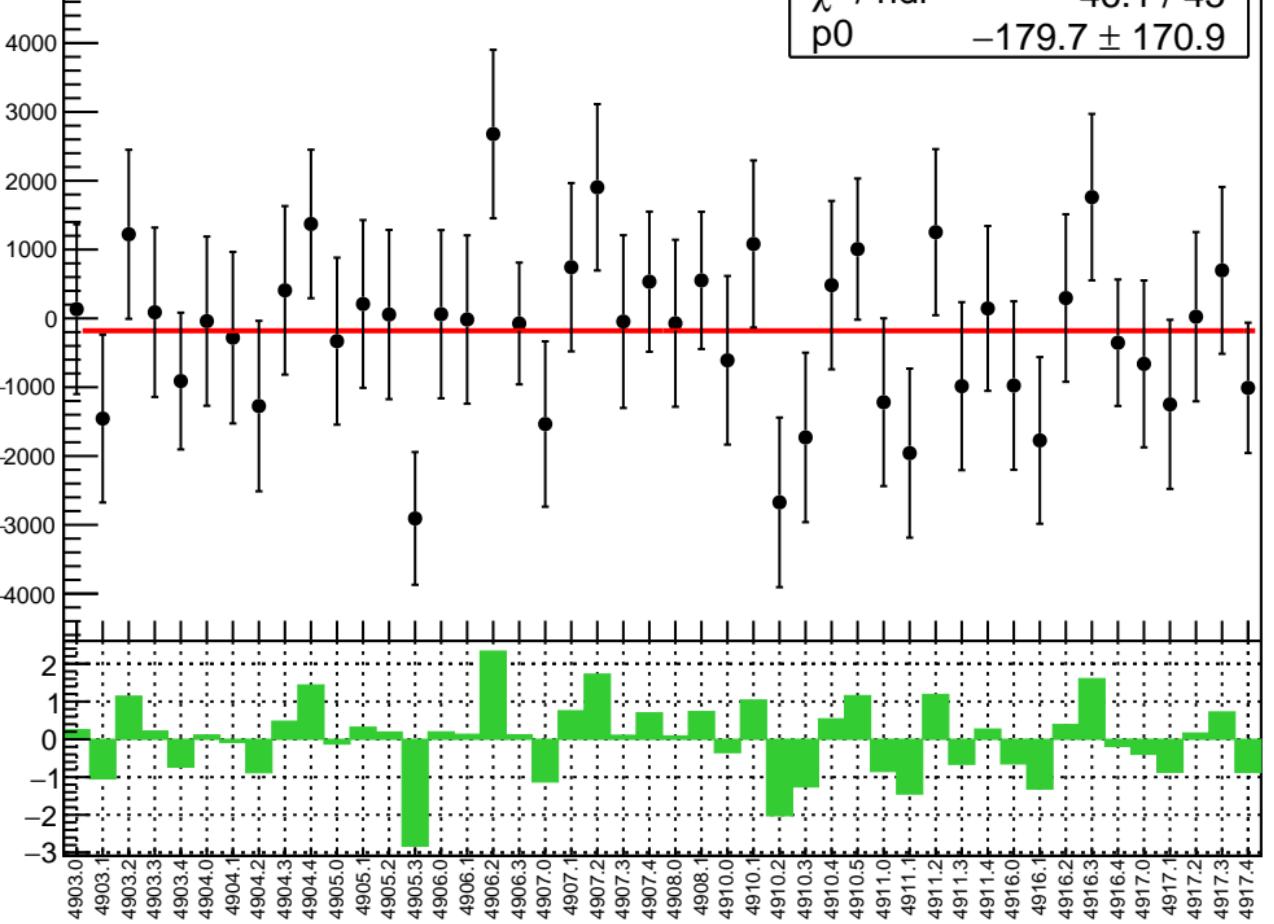
lagr_asym_us_dd RMS (ppm)

RMS (ppm)

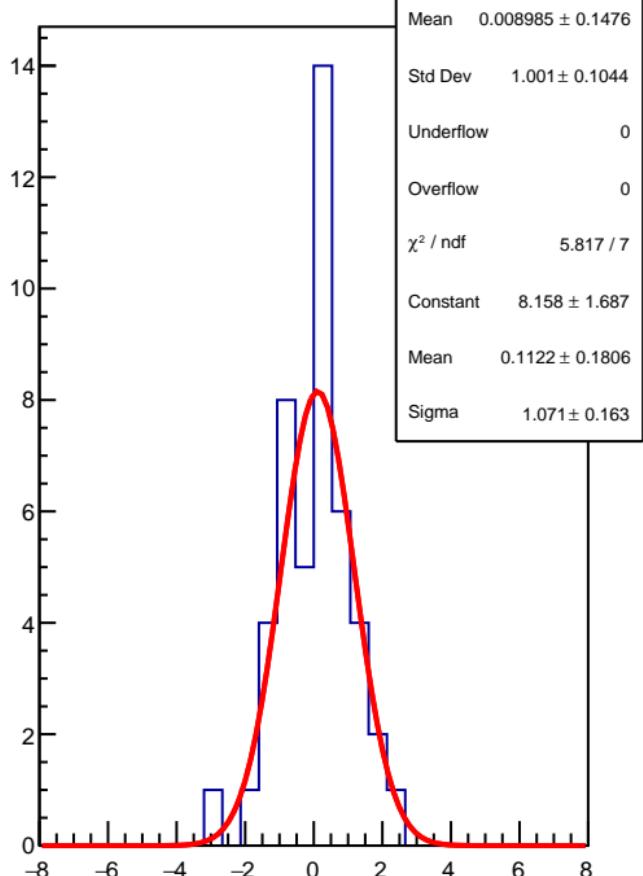


lagr_asym_usr (ppb)

χ^2 / ndf 46.1 / 45
p0 -179.7 ± 170.9

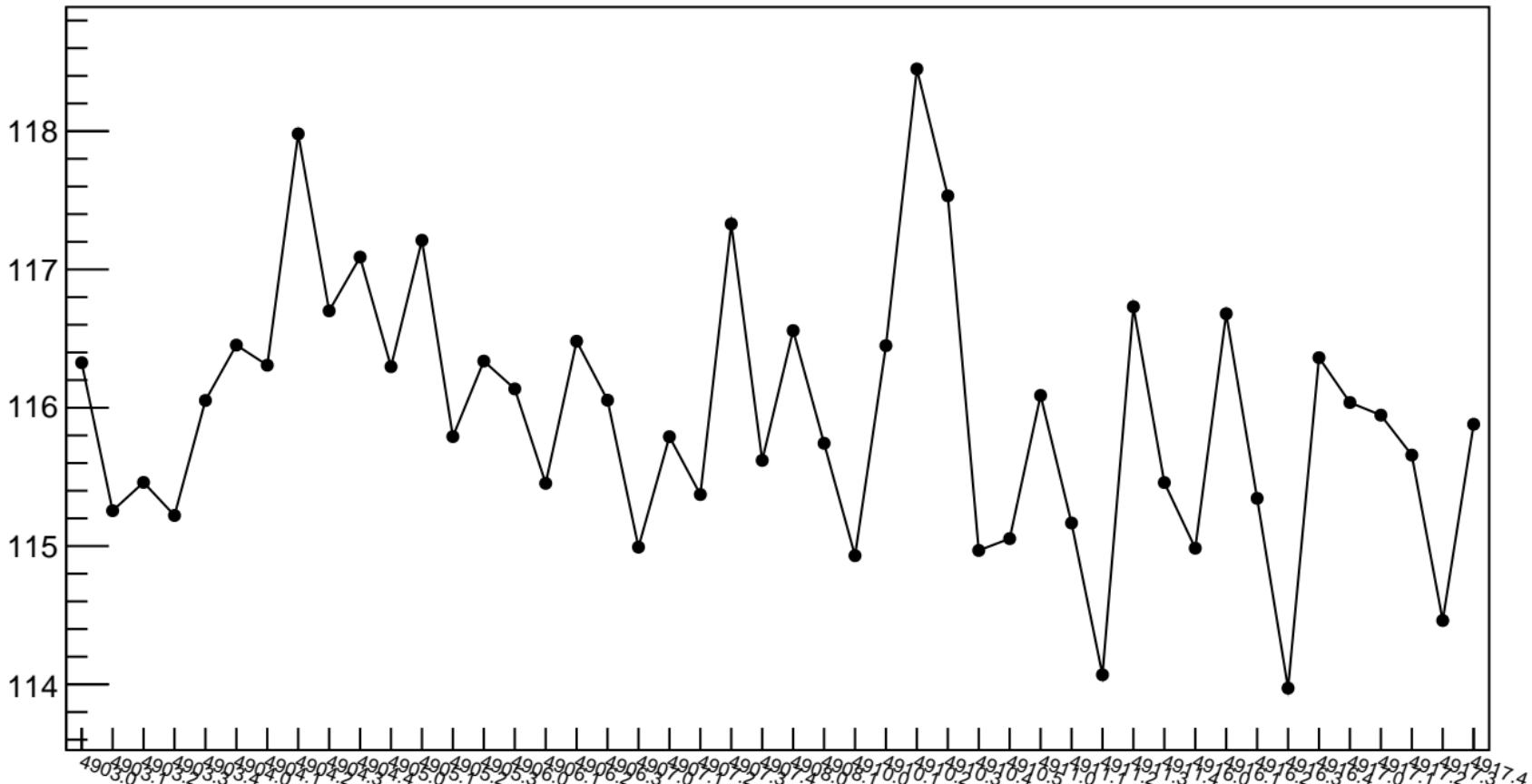


1D pull distribution

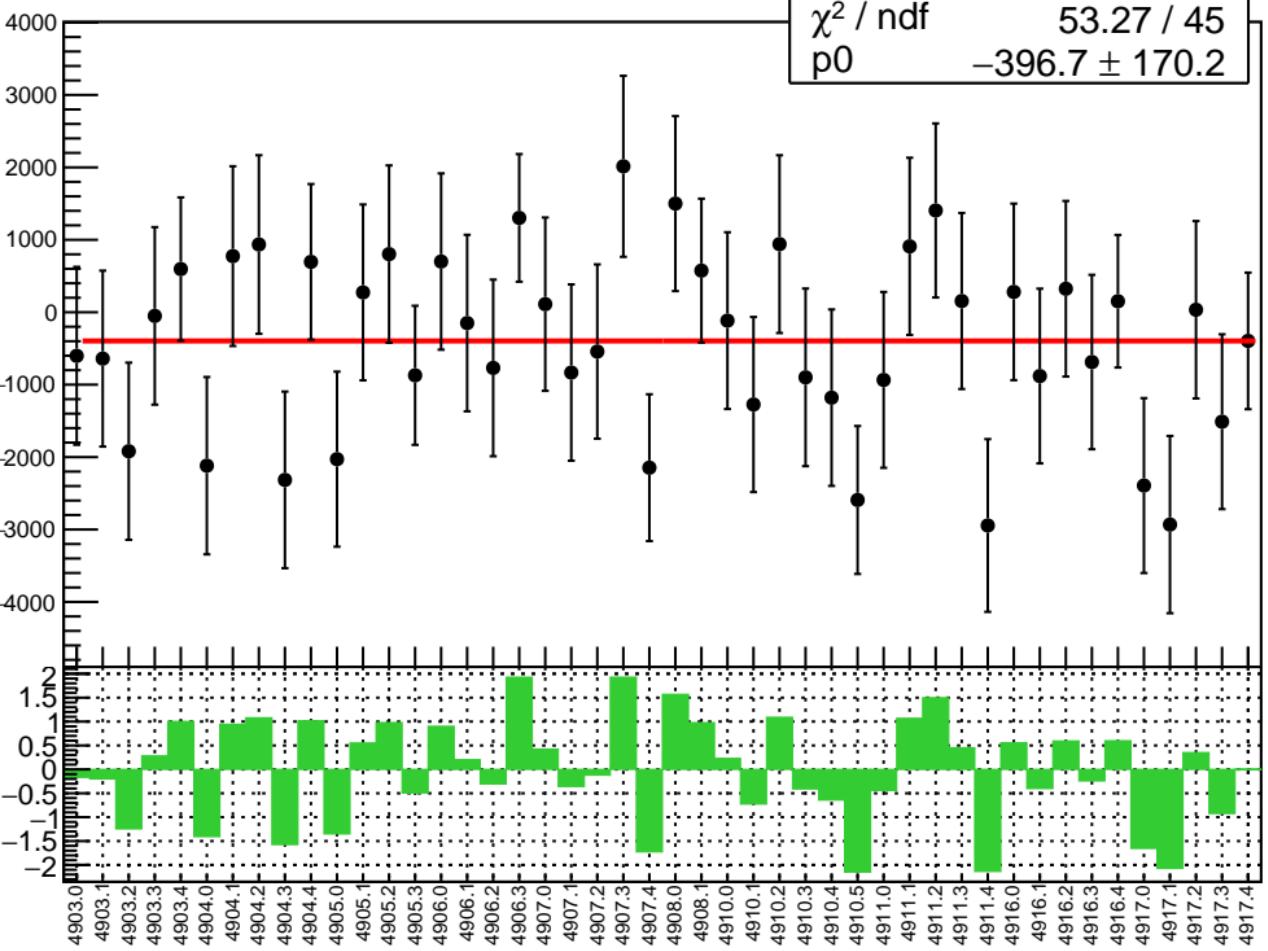


lagr_asym_usr RMS (ppm)

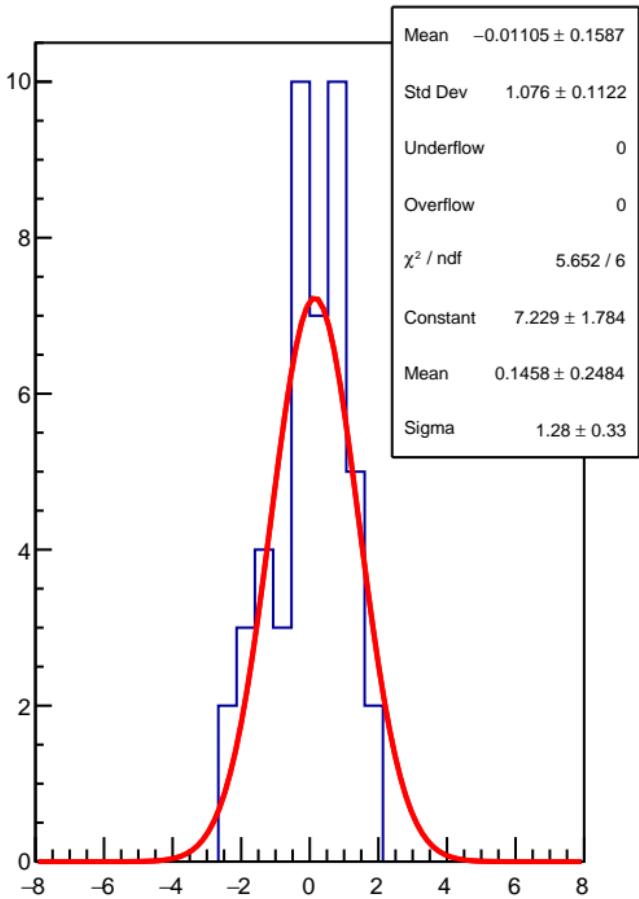
RMS (ppm)



lagr_asym_usl (ppb)

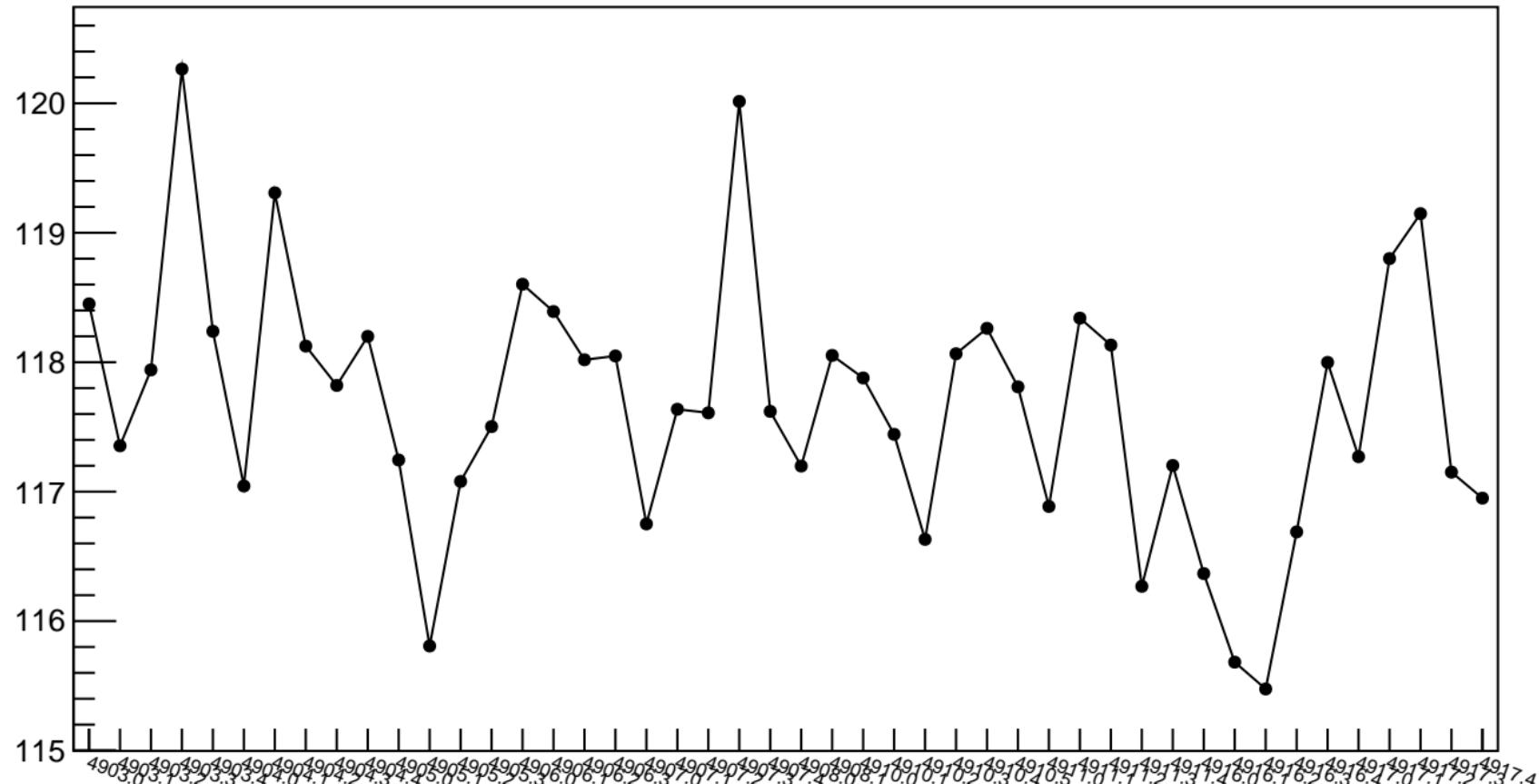


1D pull distribution



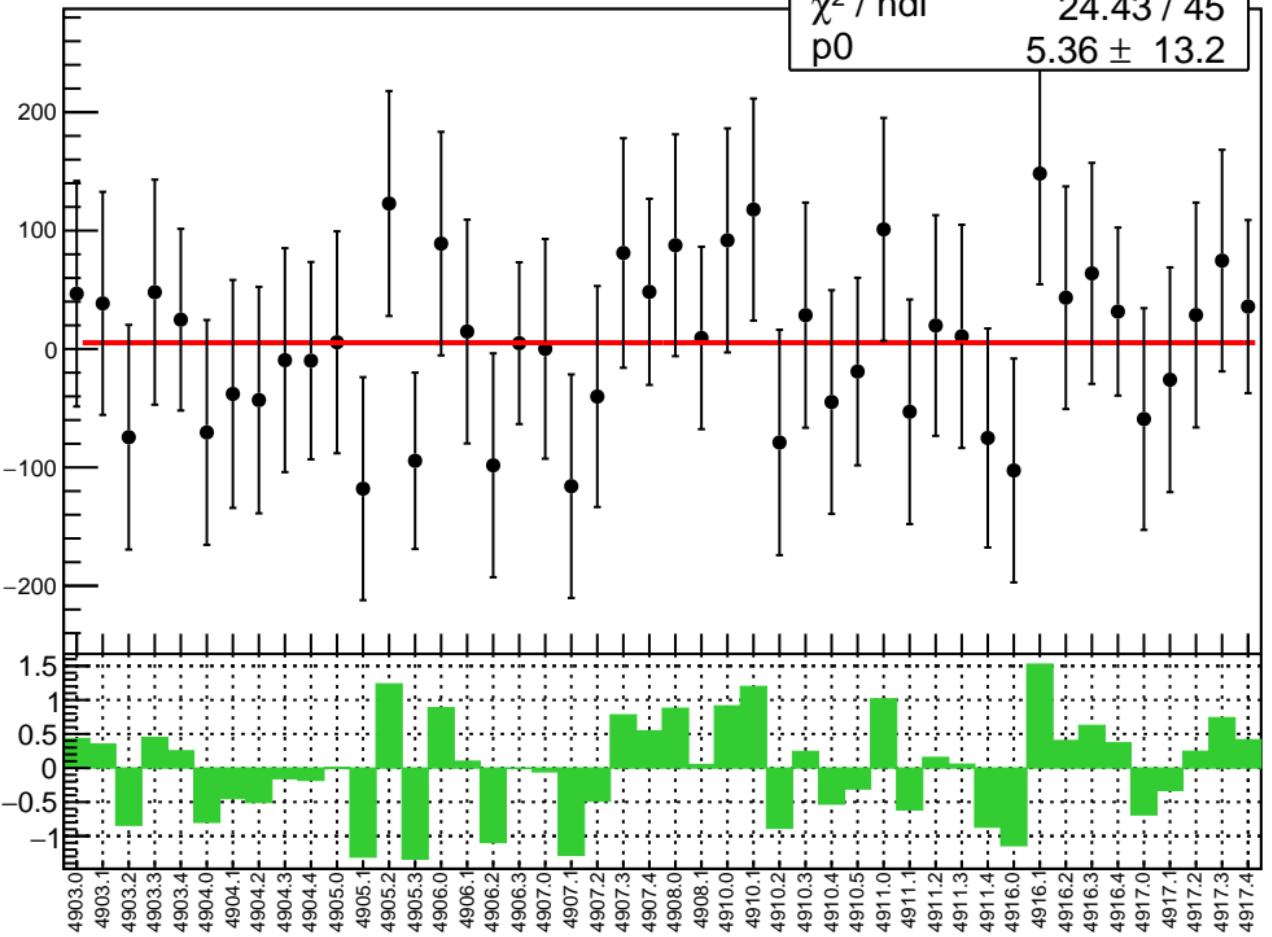
lagr_asym_usl RMS (ppm)

RMS (ppm)

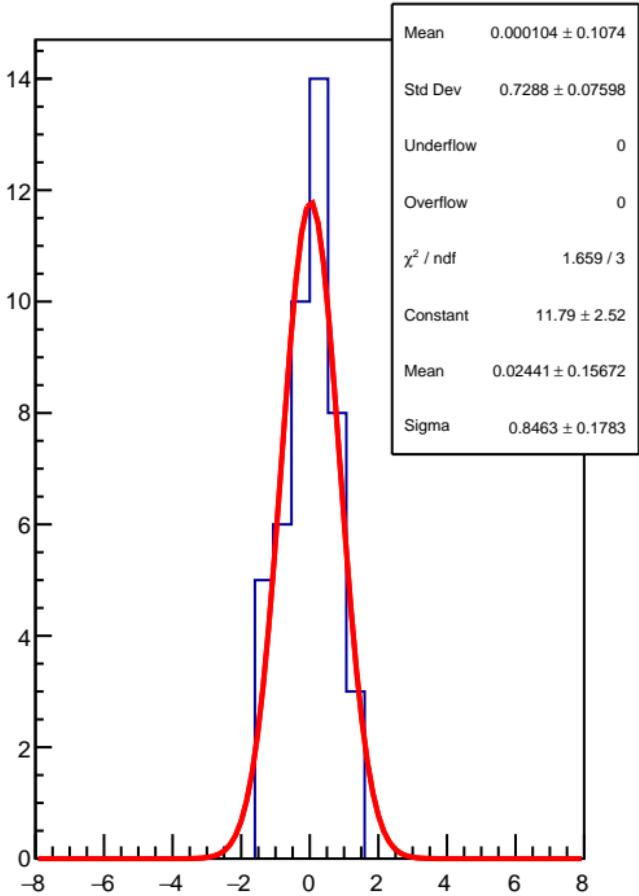


diff_bpm4eX (nm)

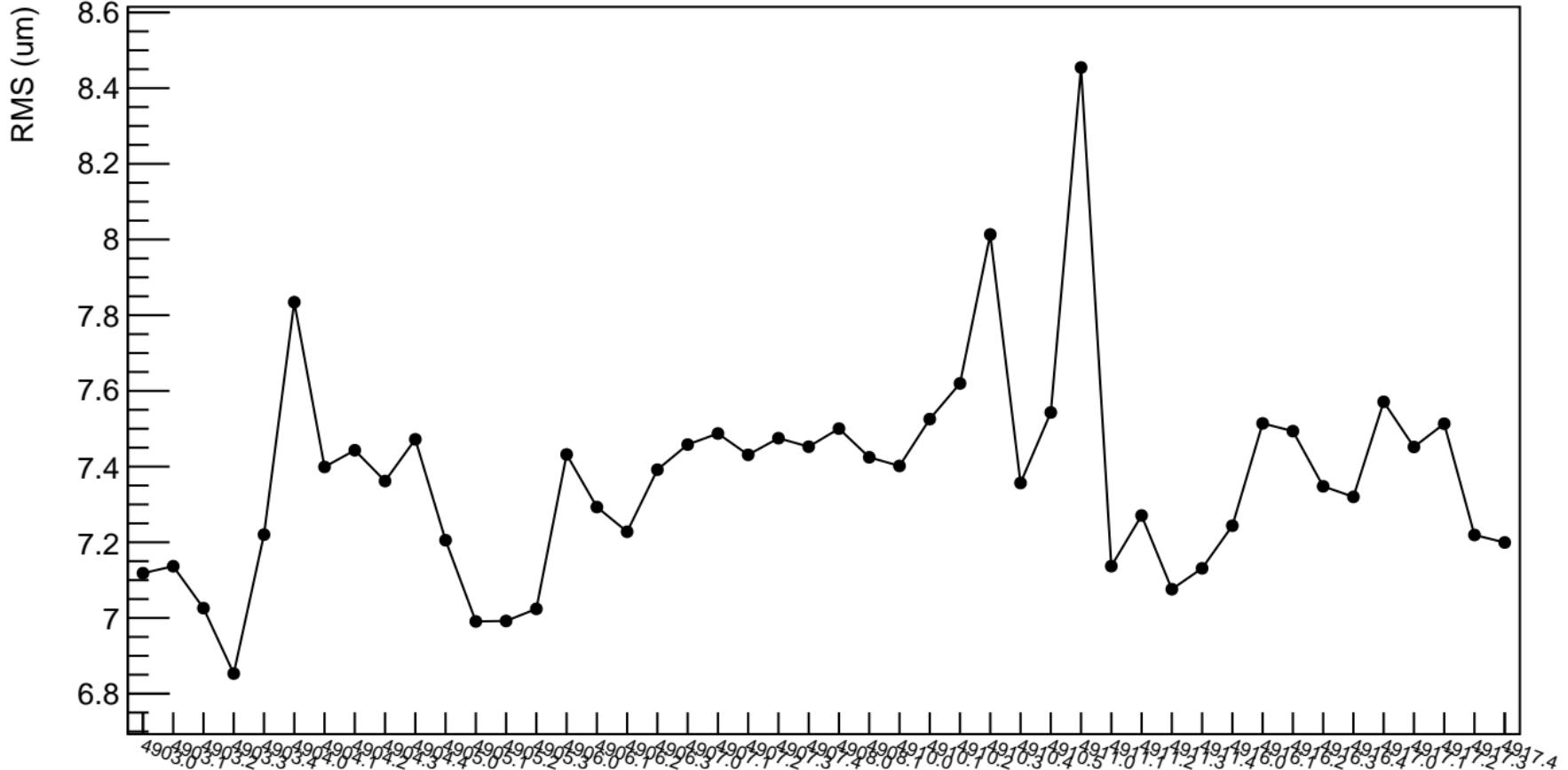
χ^2 / ndf 24.43 / 45
p0 5.36 ± 13.2



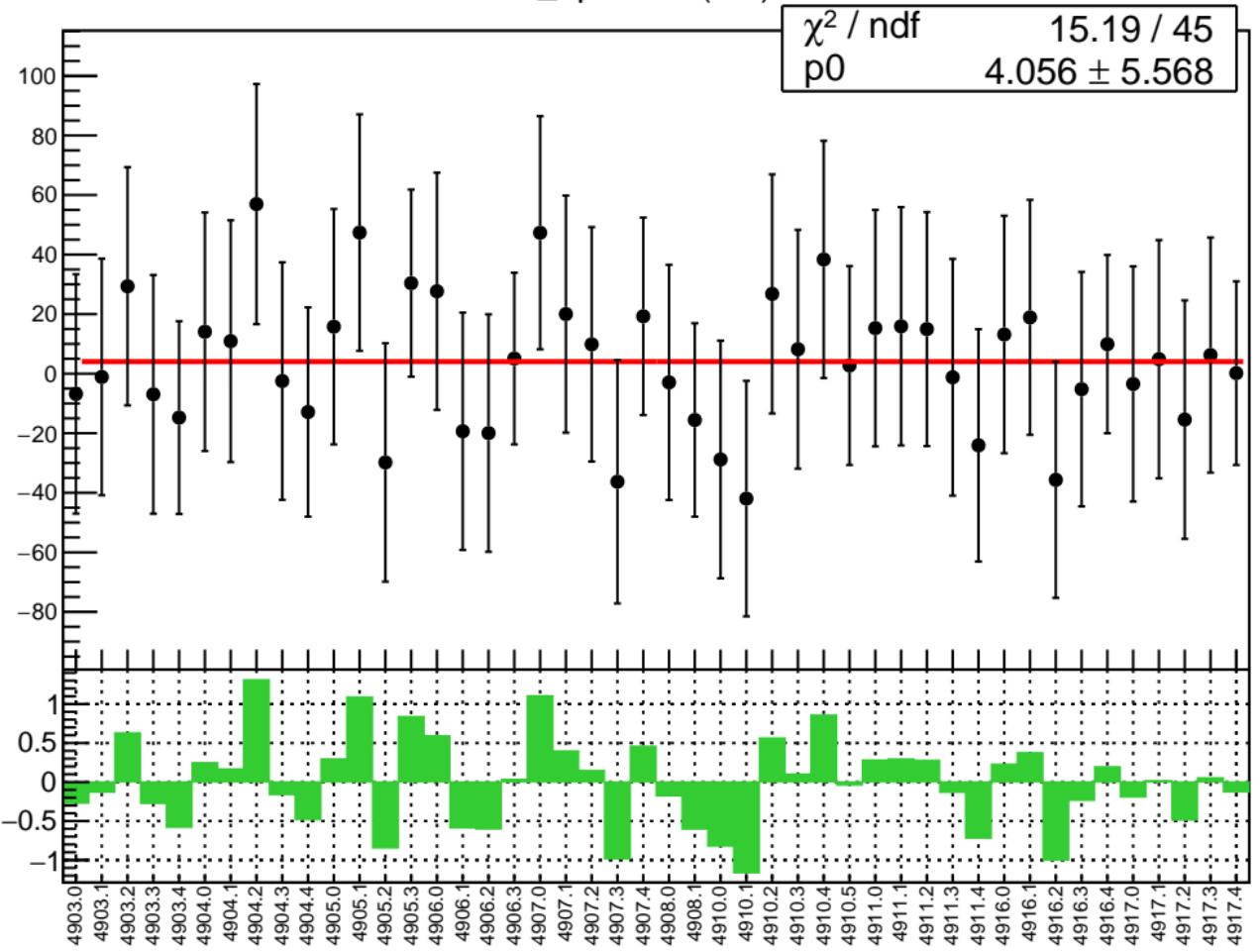
1D pull distribution



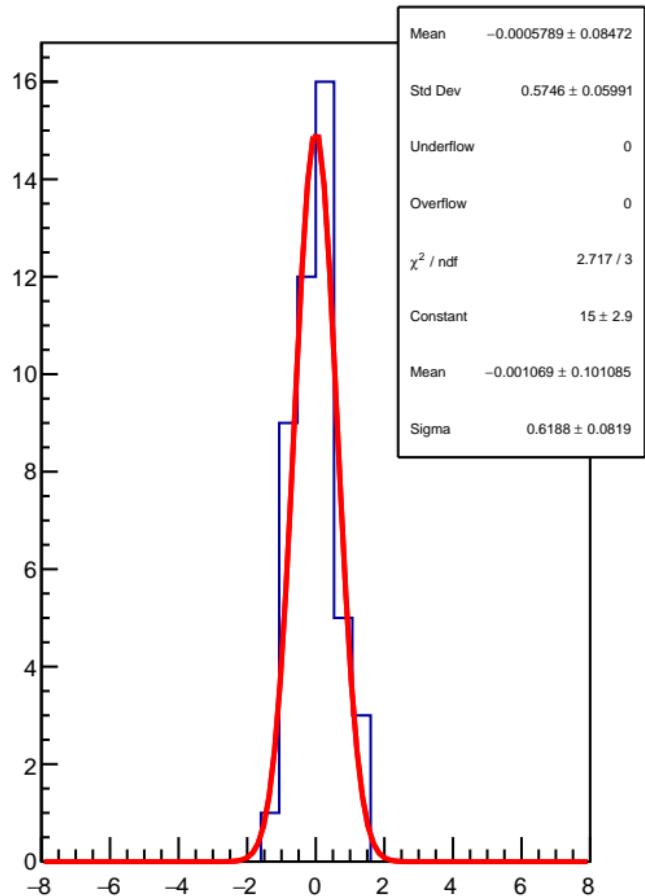
diff_bpm4eX RMS (um)



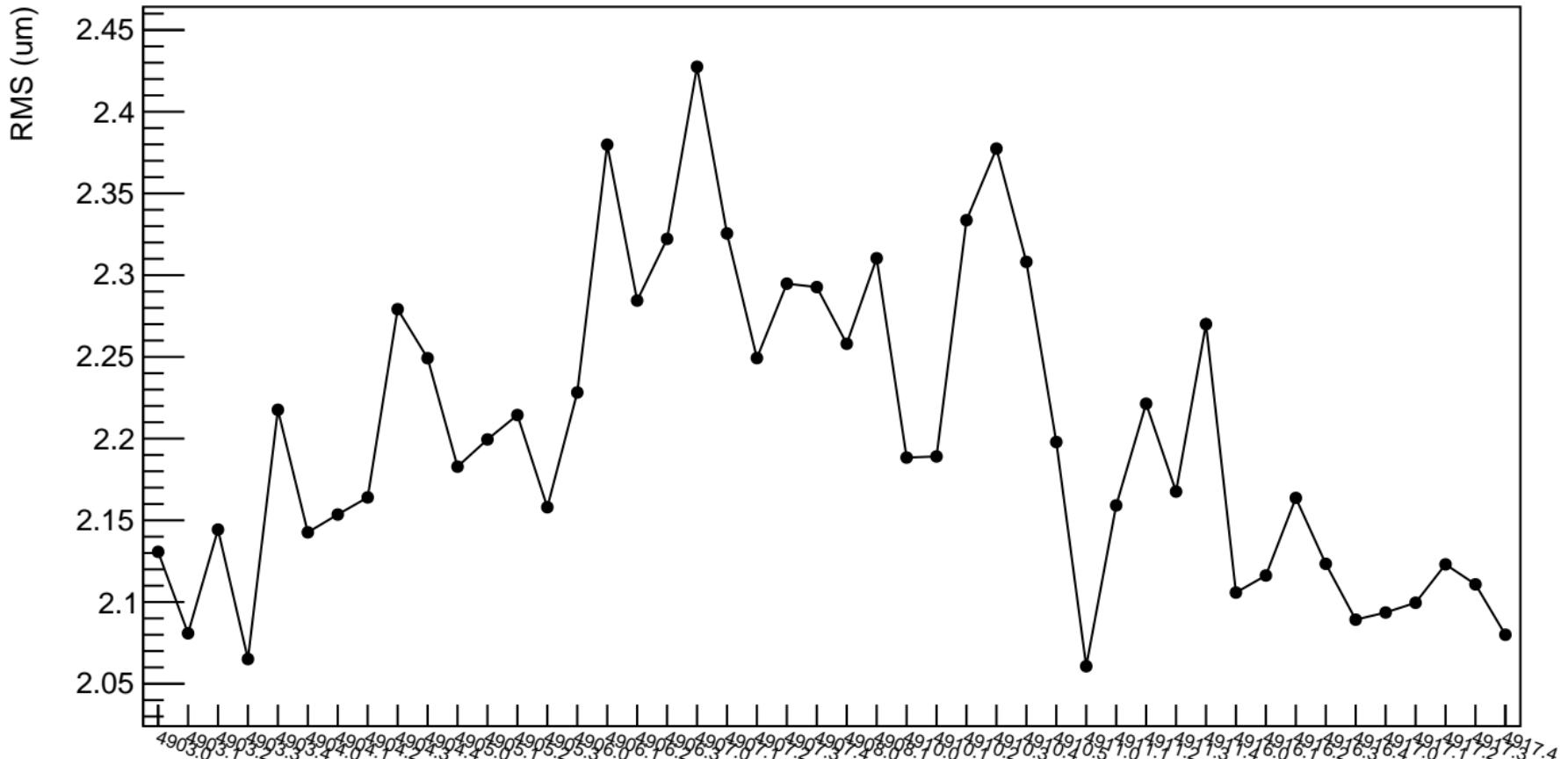
diff_bpm4eY (nm)



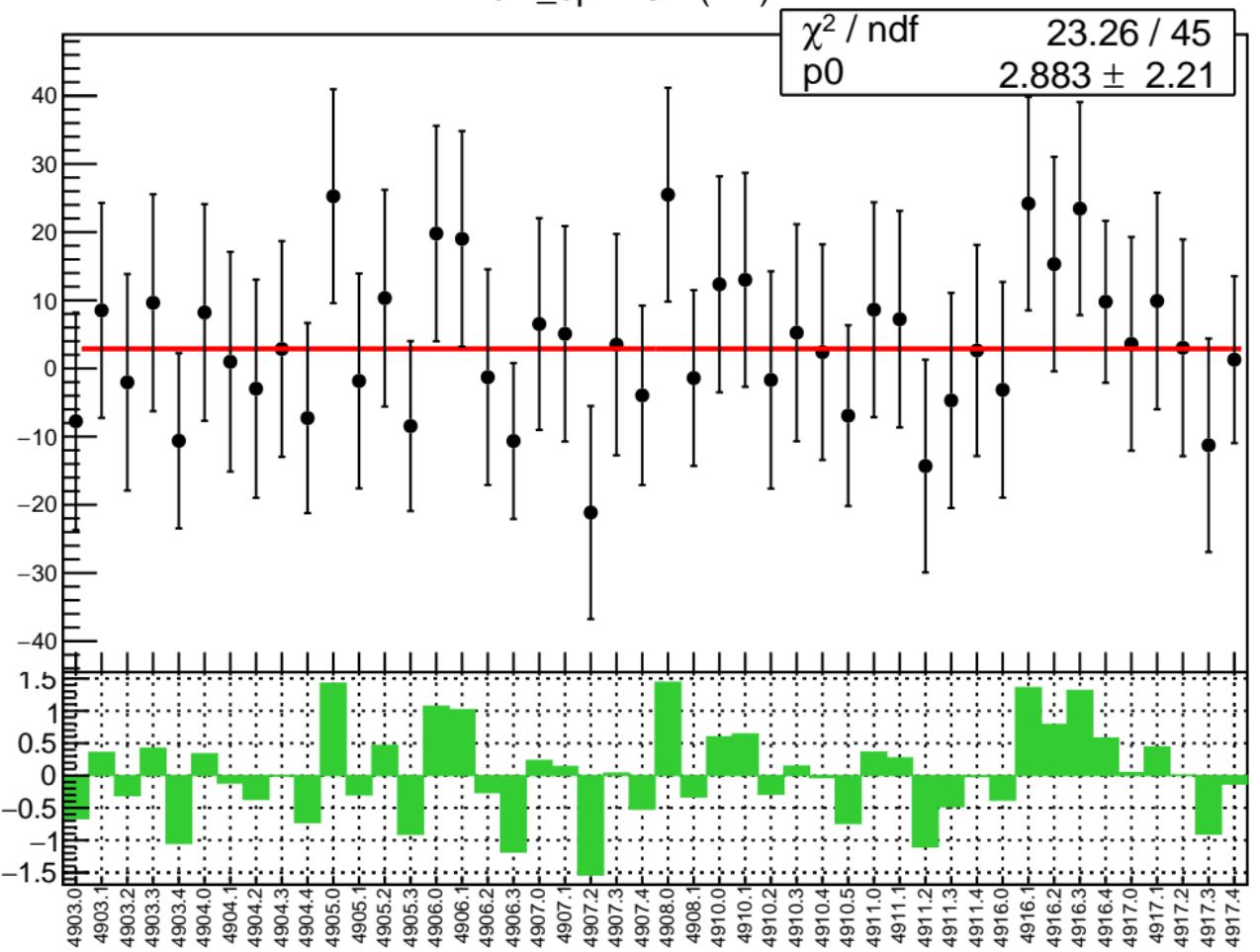
1D pull distribution



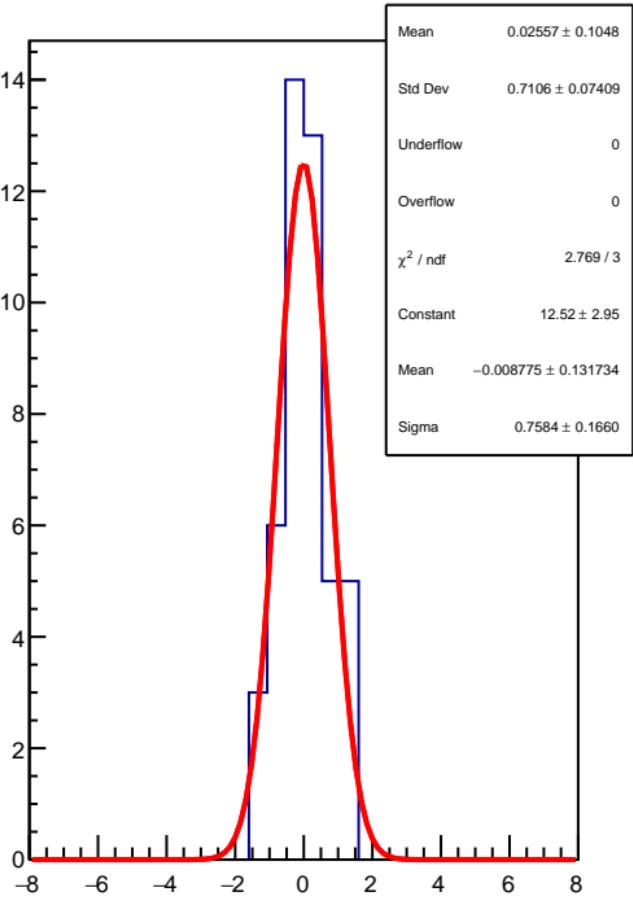
diff_bpm4eY RMS (um)



diff_bpm4aX (nm)

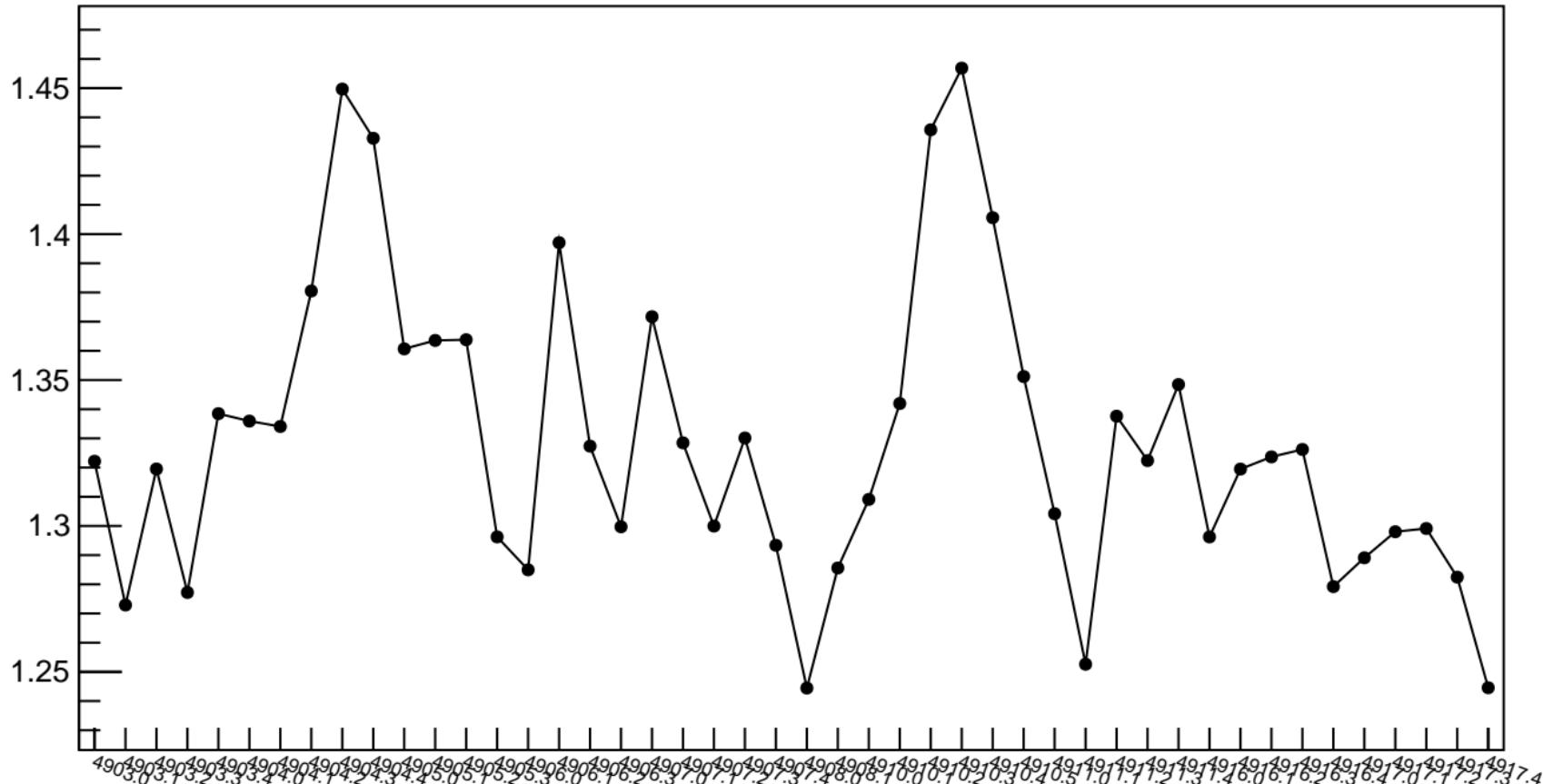


1D pull distribution



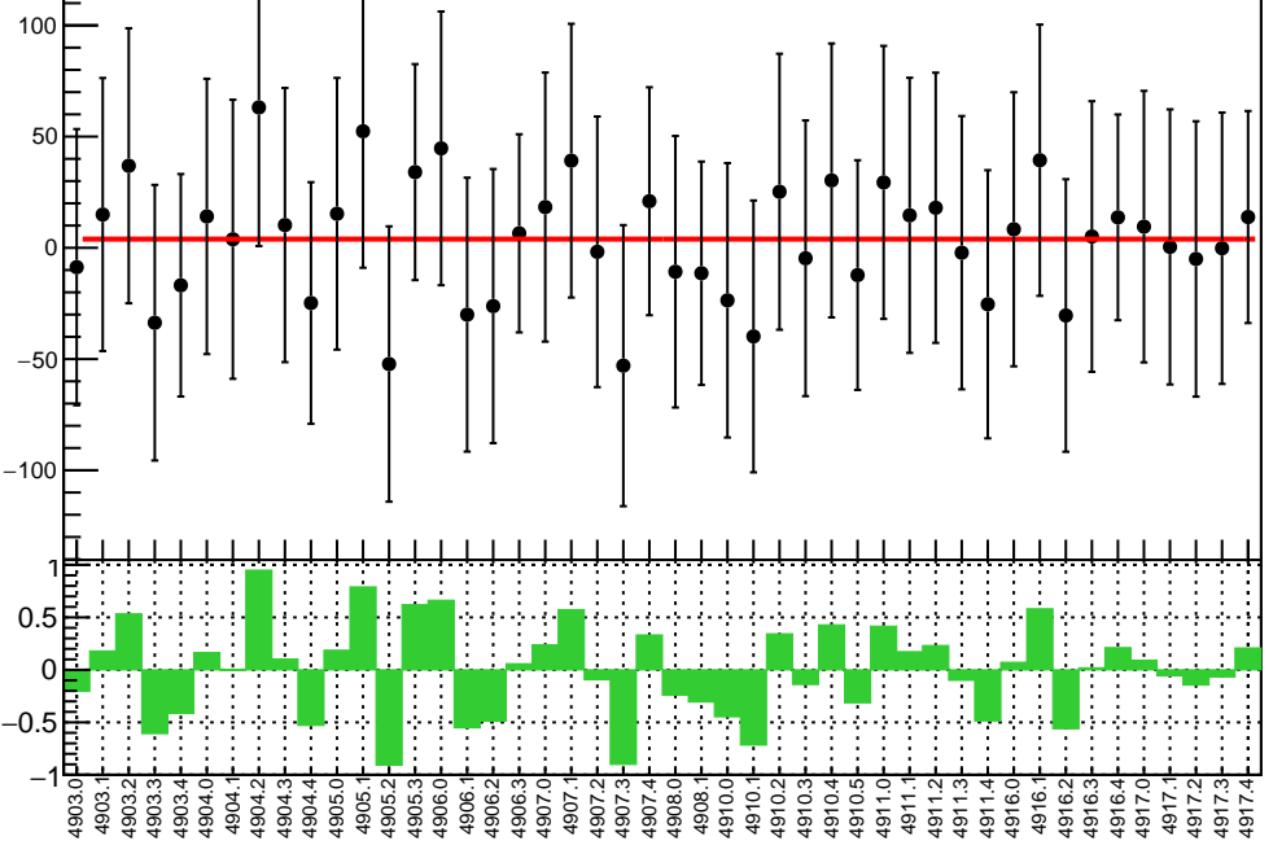
diff_bpm4aX RMS (um)

RMS (um)

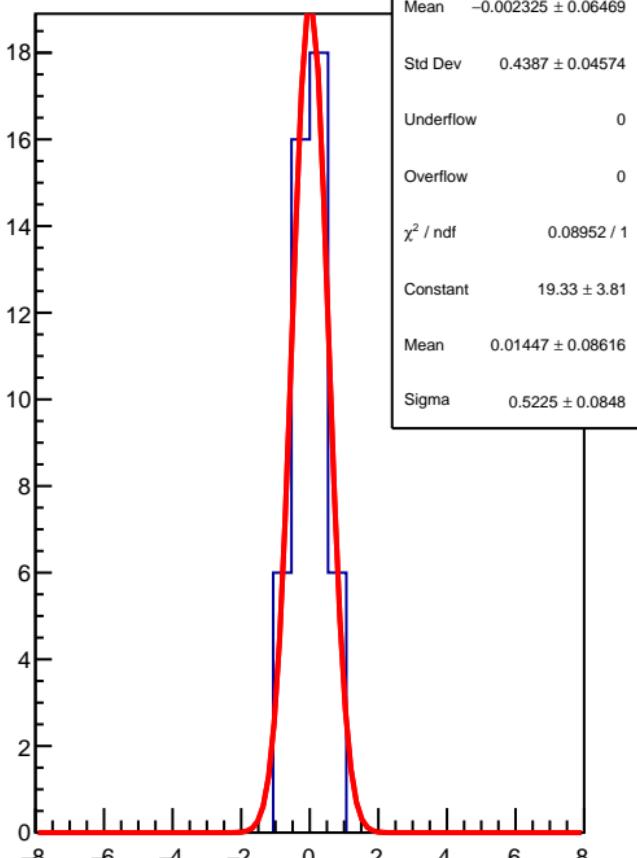


diff_bpm4aY (nm)

χ^2 / ndf 8.855 / 45
 p_0 3.923 ± 8.604

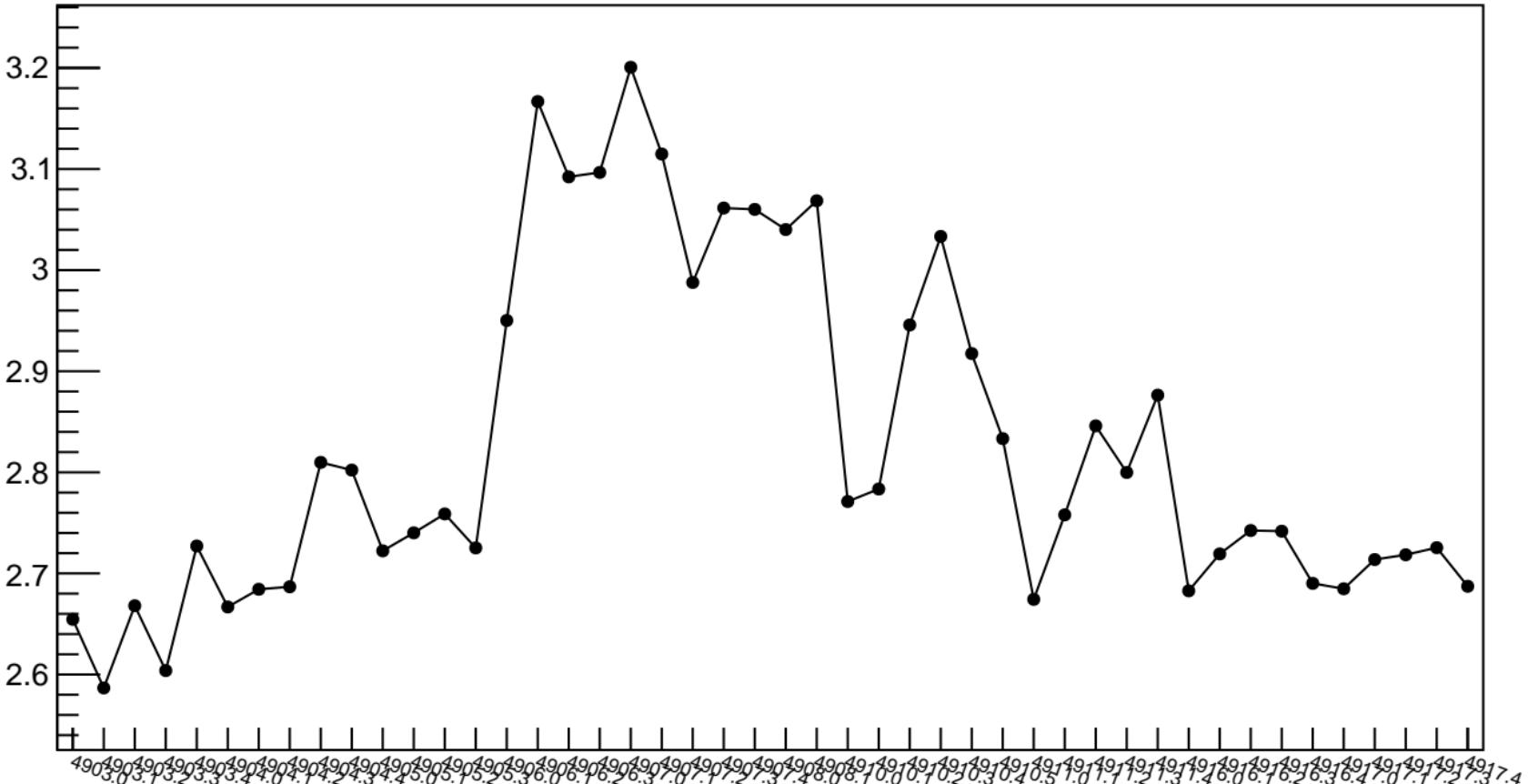


1D pull distribution



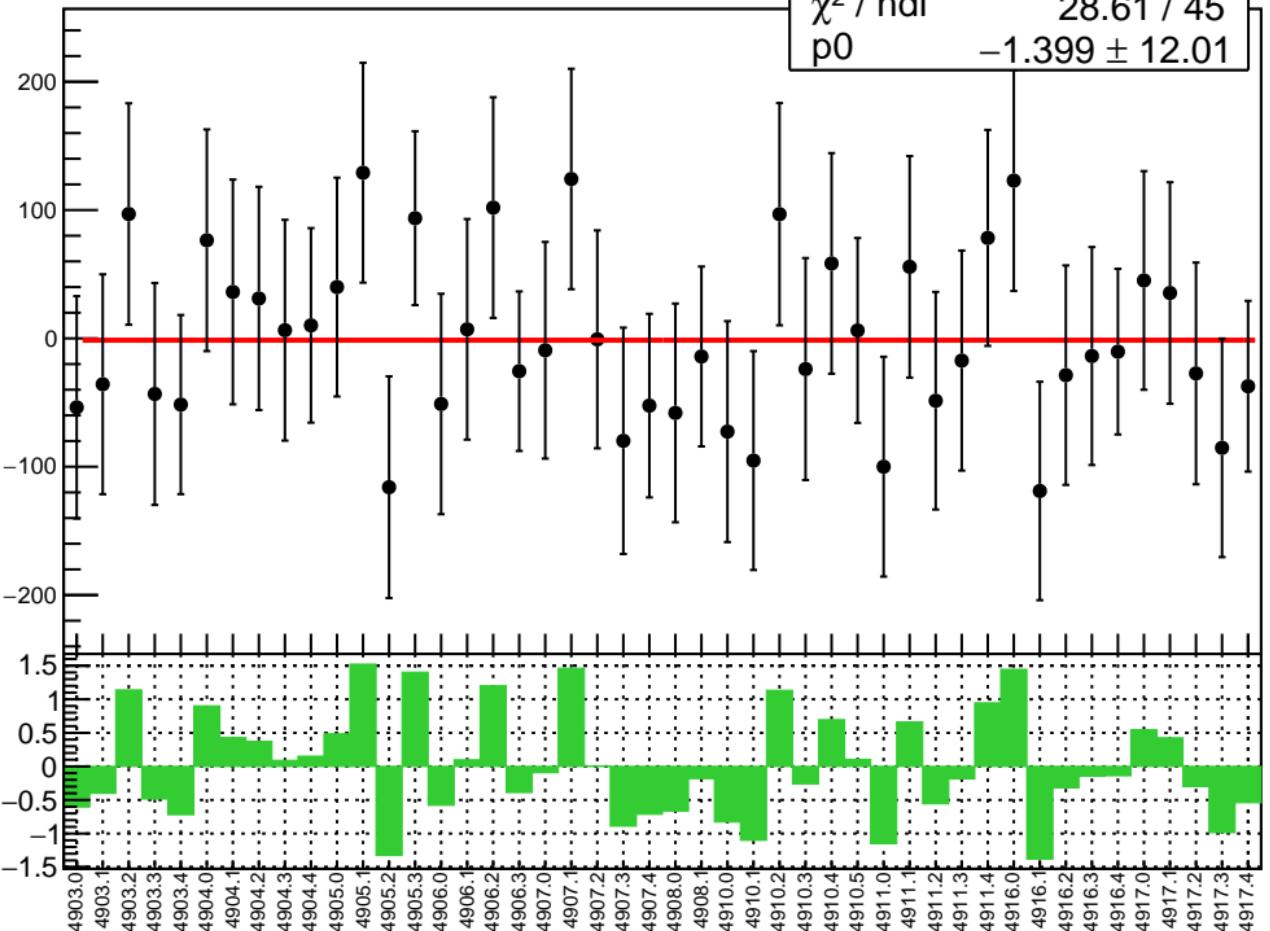
diff_bpm4aY RMS (um)

RMS (um)

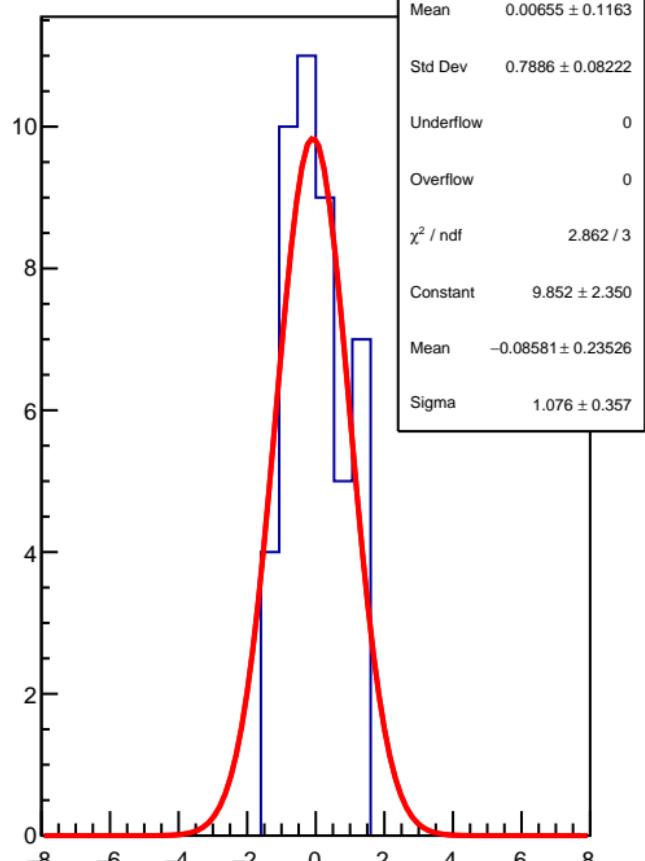


diff_bpm1X (nm)

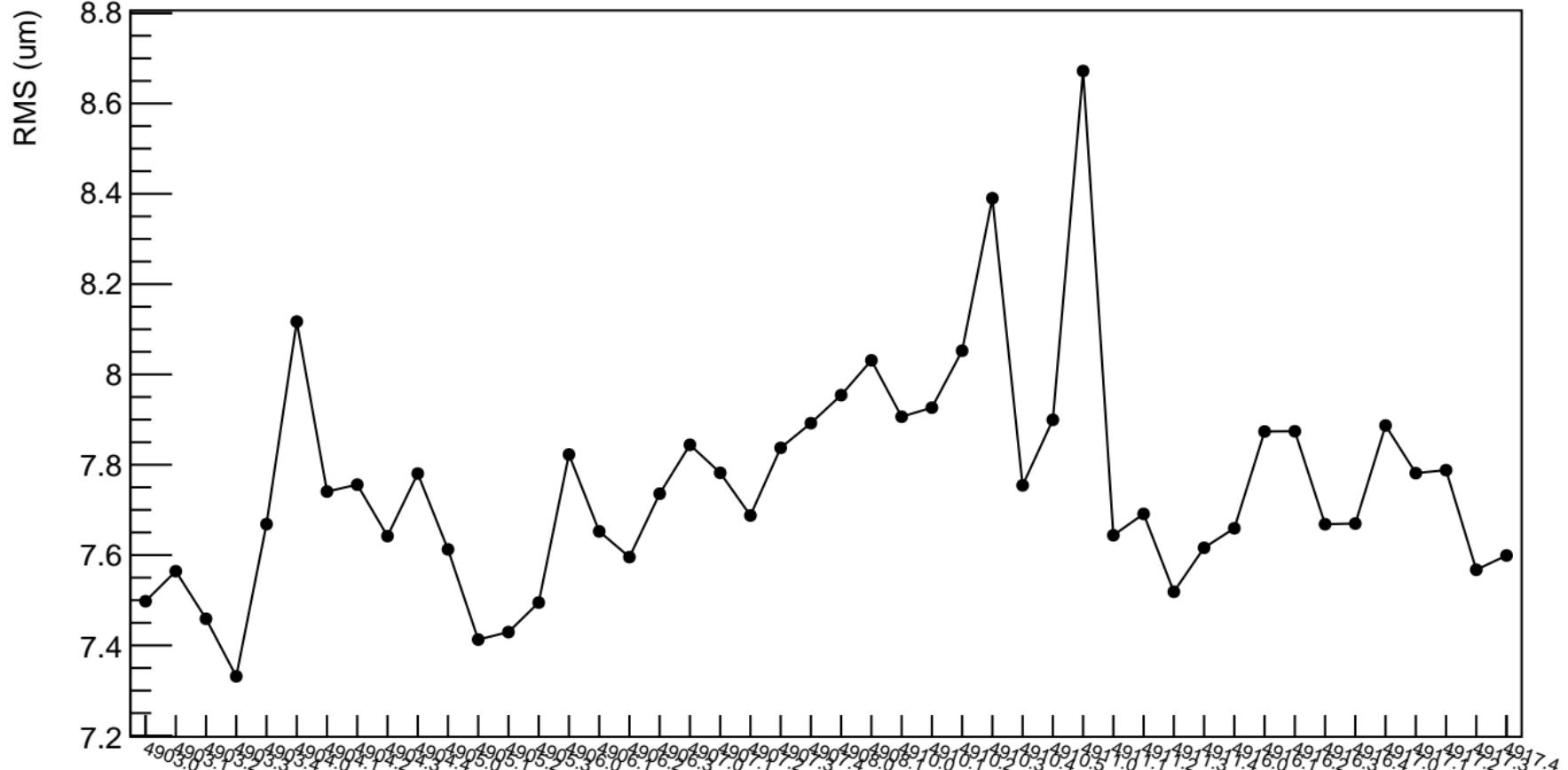
χ^2 / ndf
28.61 / 45
 p_0 -1.399 ± 12.01



1D pull distribution

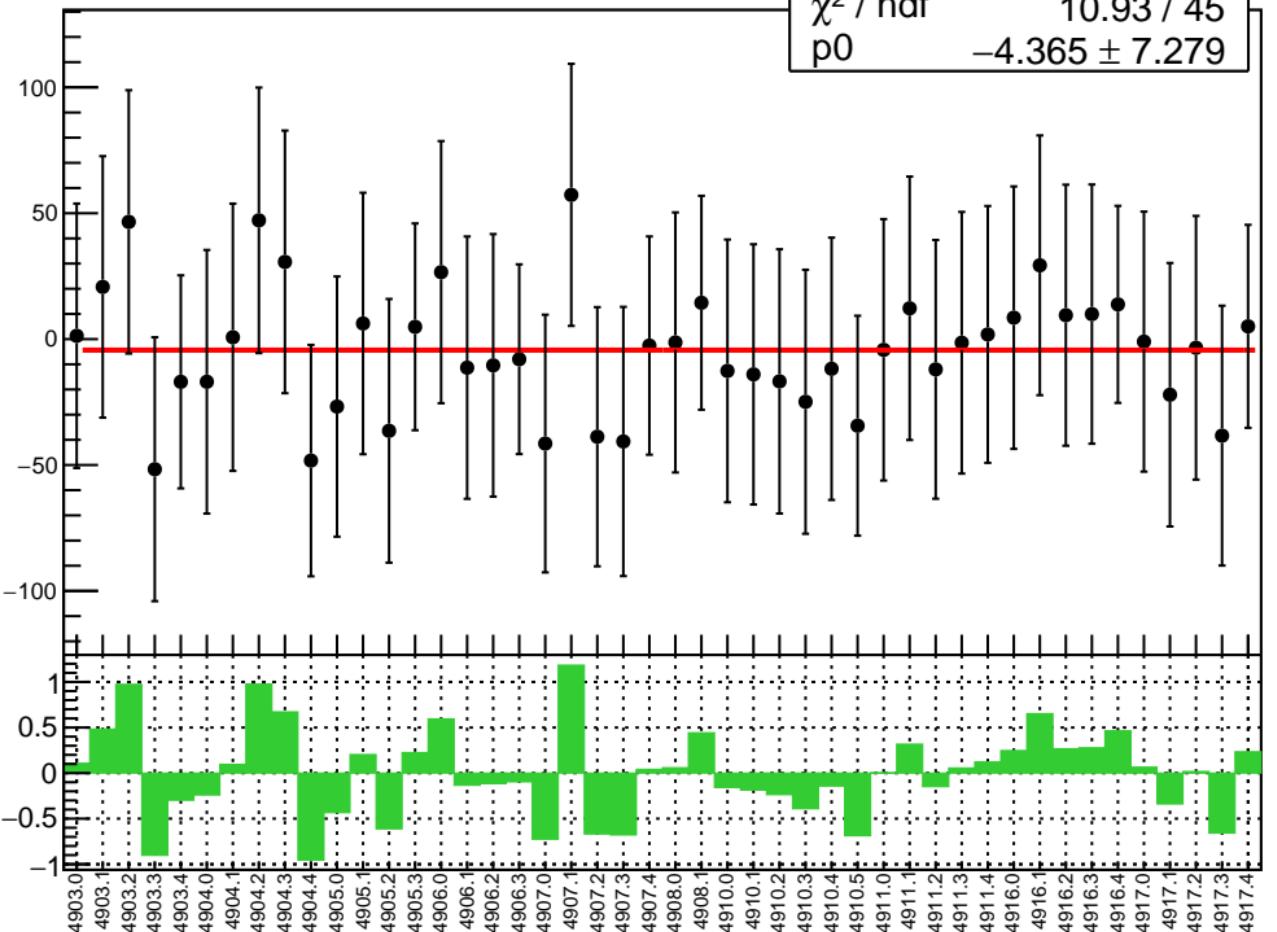


diff_bpm1X RMS (um)

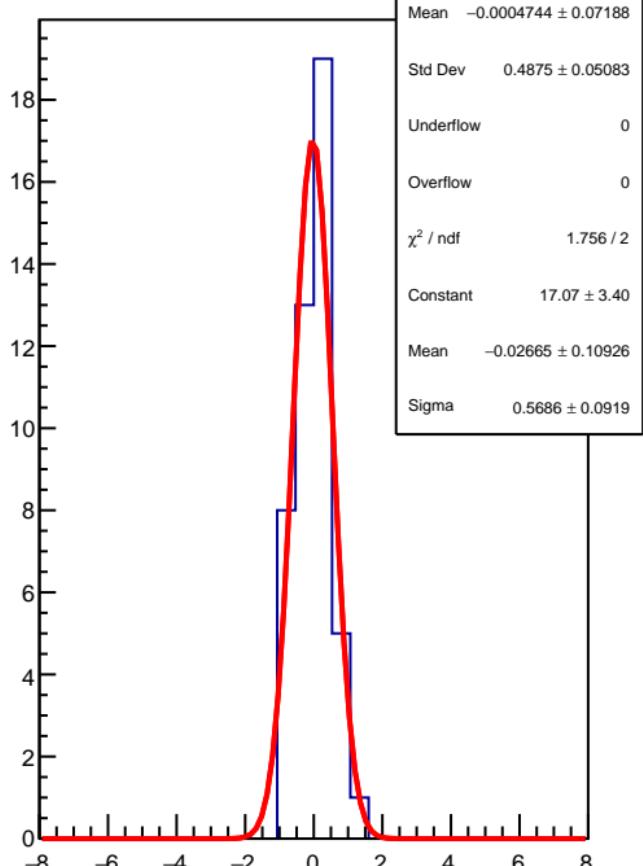


diff_bpm1Y (nm)

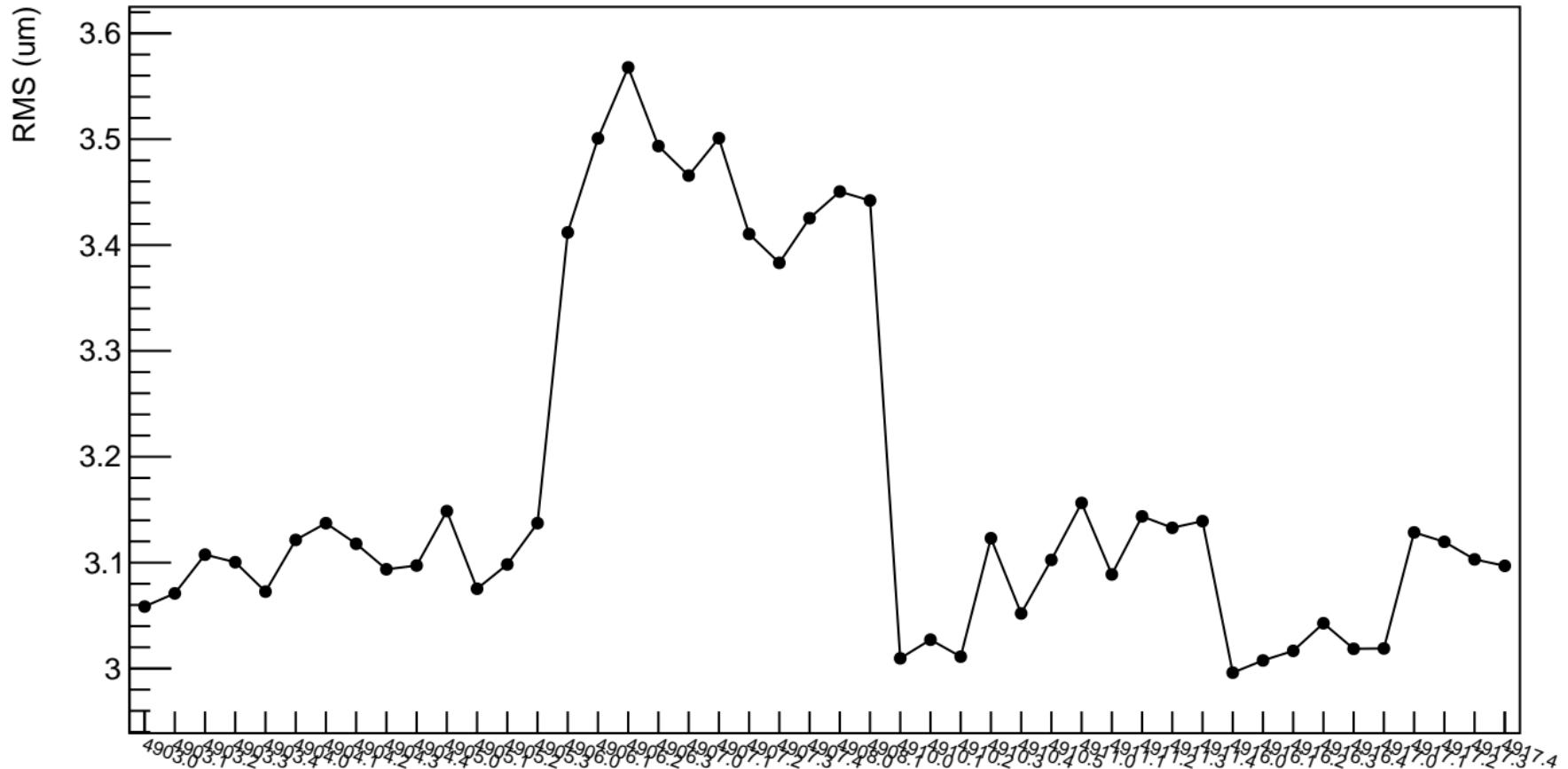
χ^2 / ndf 10.93 / 45
p0 -4.365 ± 7.279



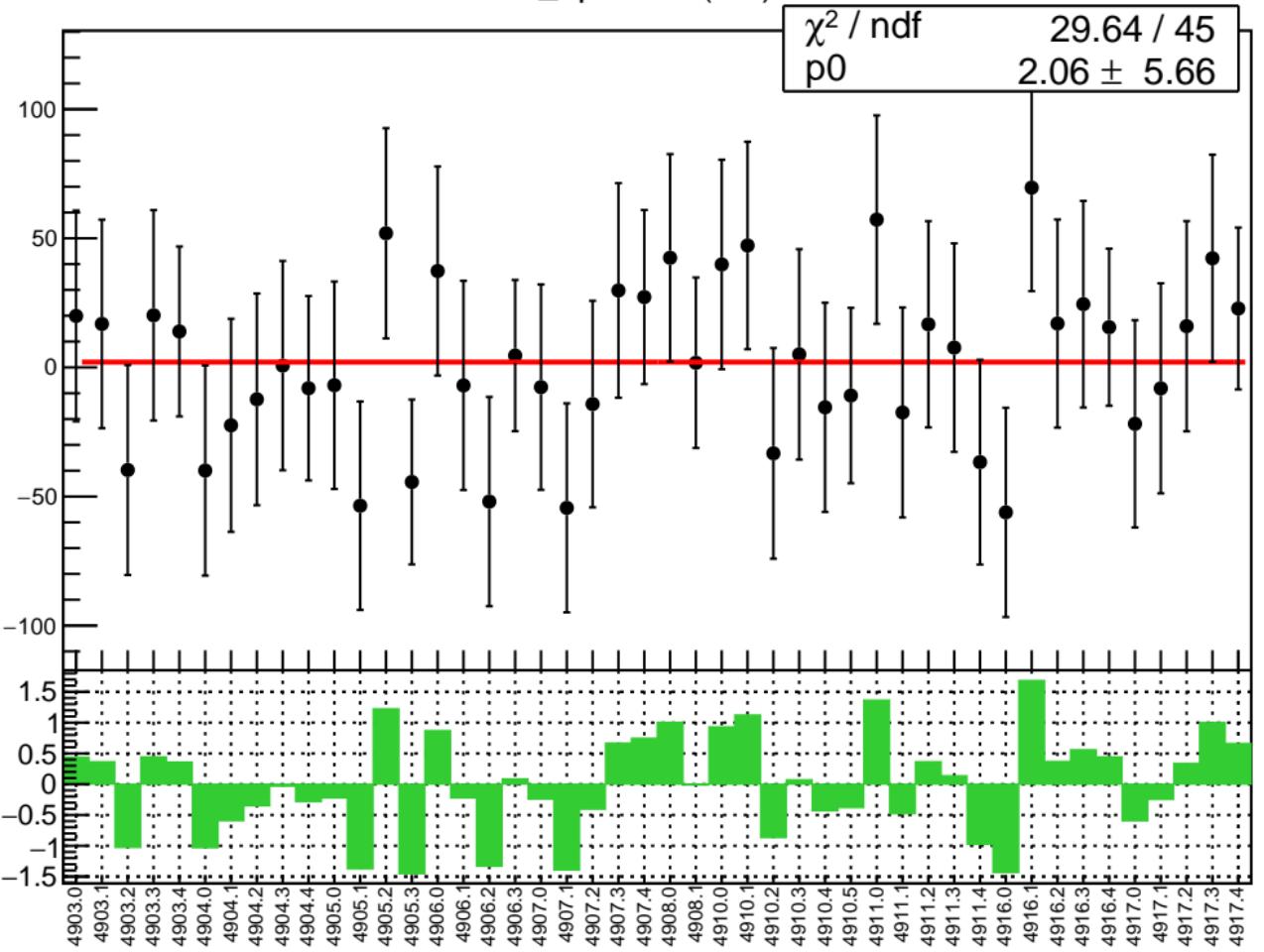
1D pull distribution



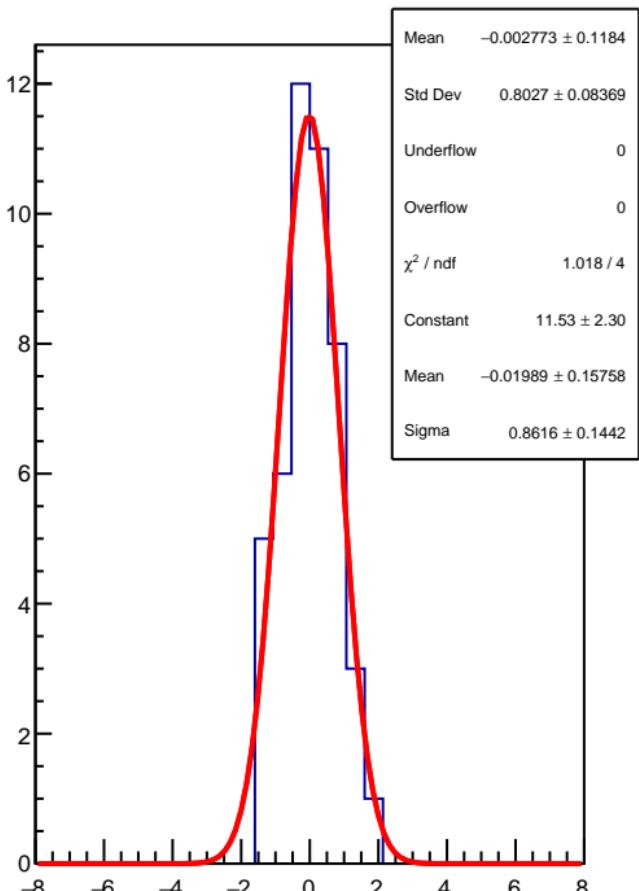
diff_bpm1Y RMS (um)



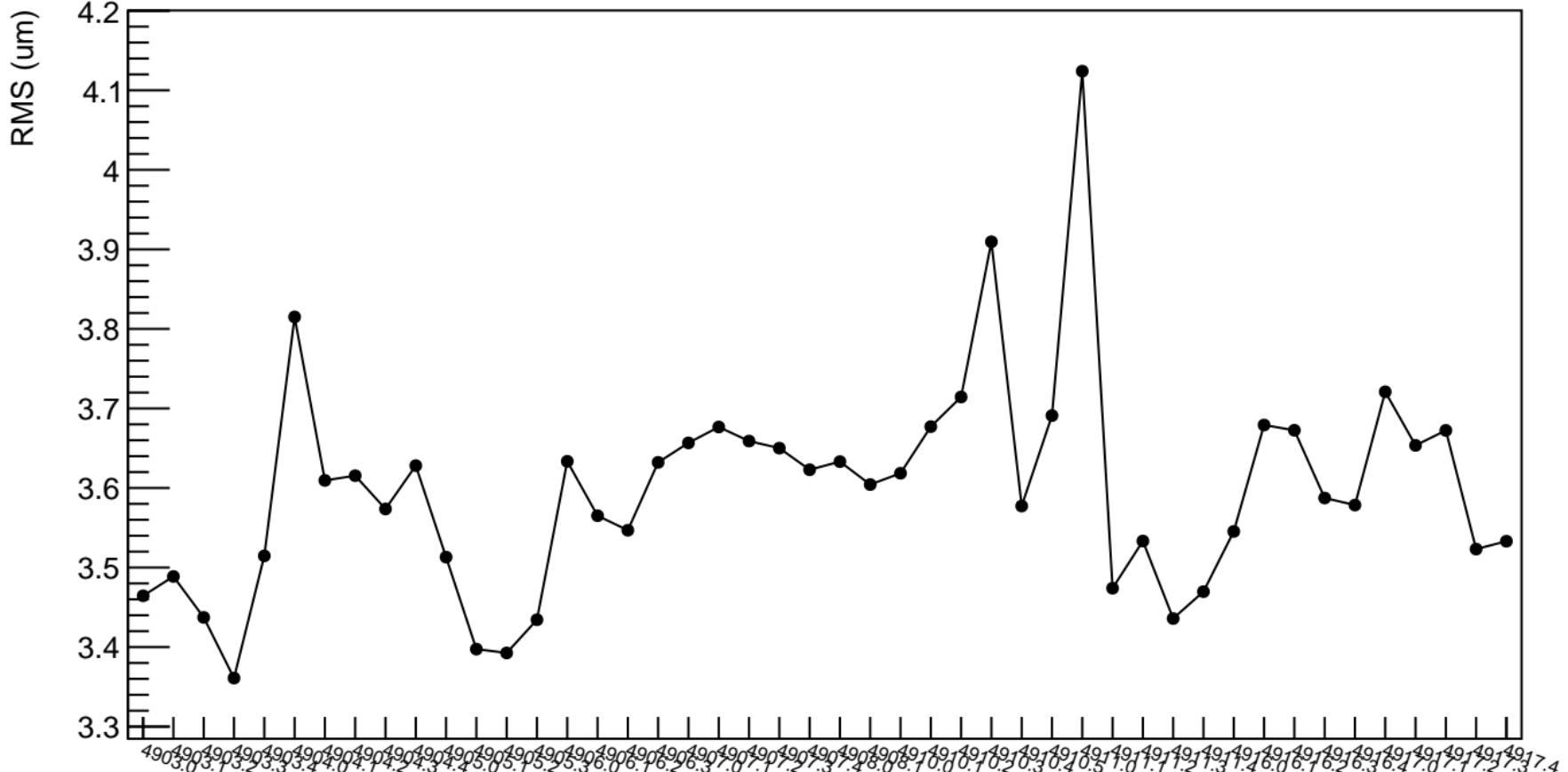
diff_bpm16X (nm)



1D pull distribution

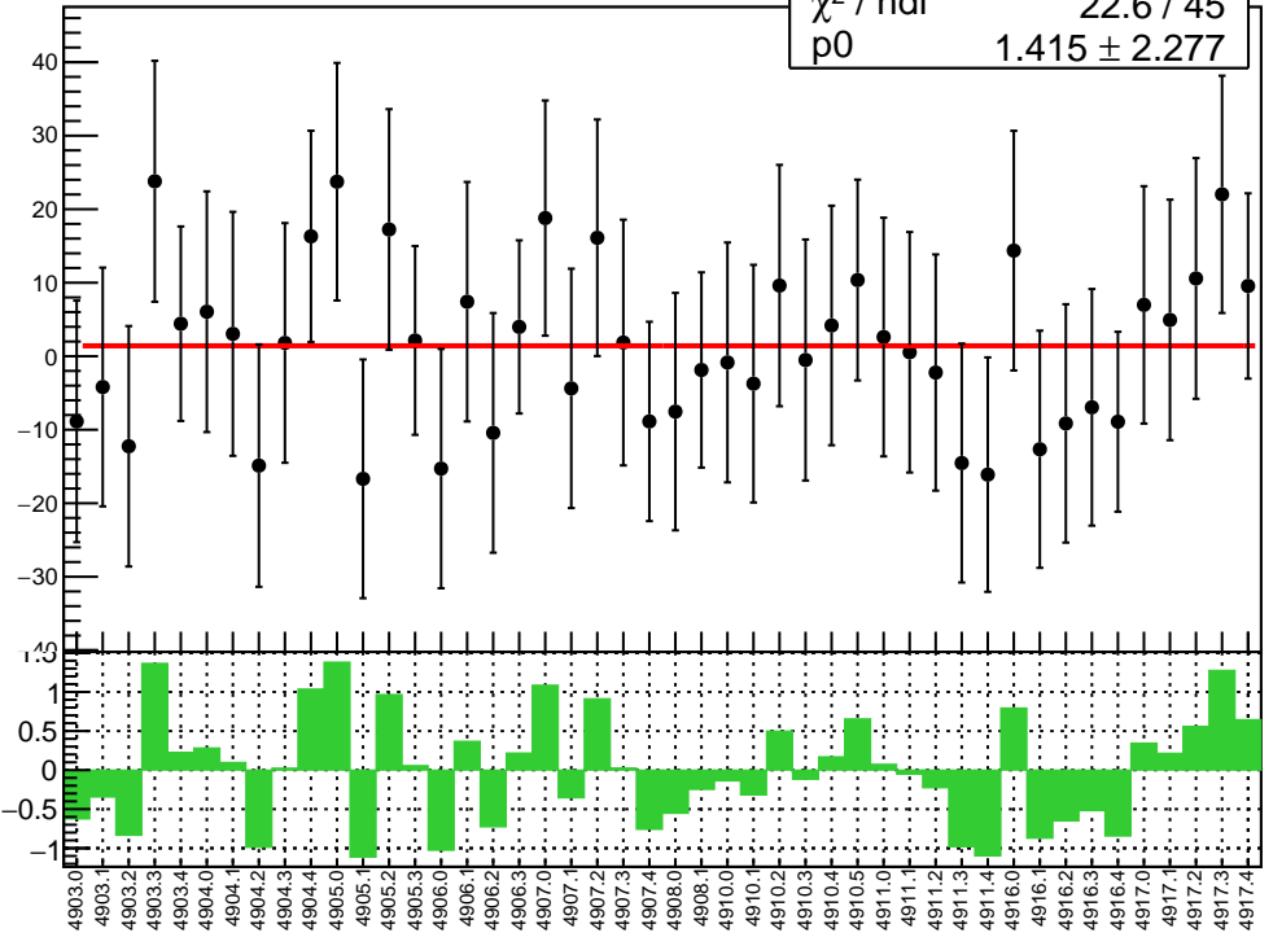


diff_bpm16X RMS (um)

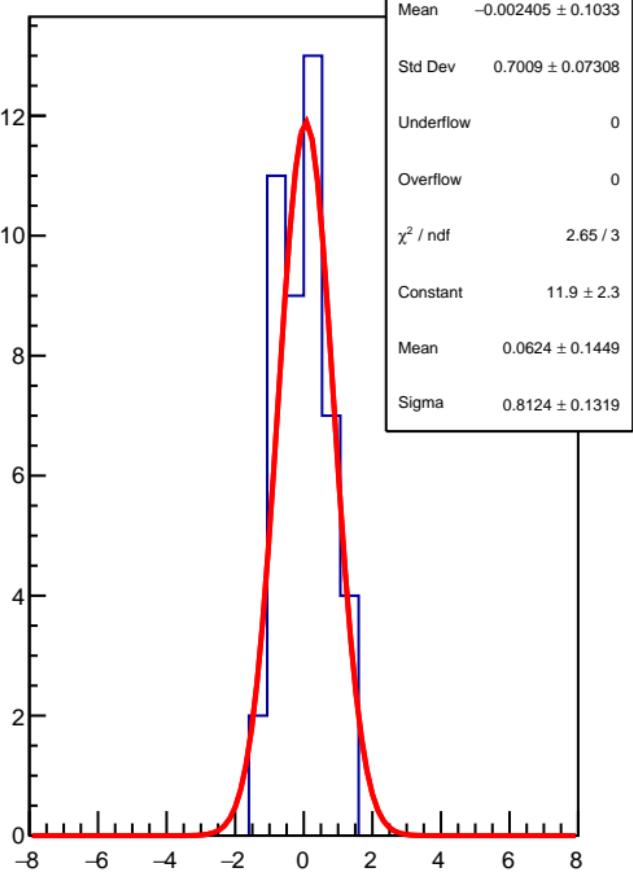


diff_bpm16Y (nm)

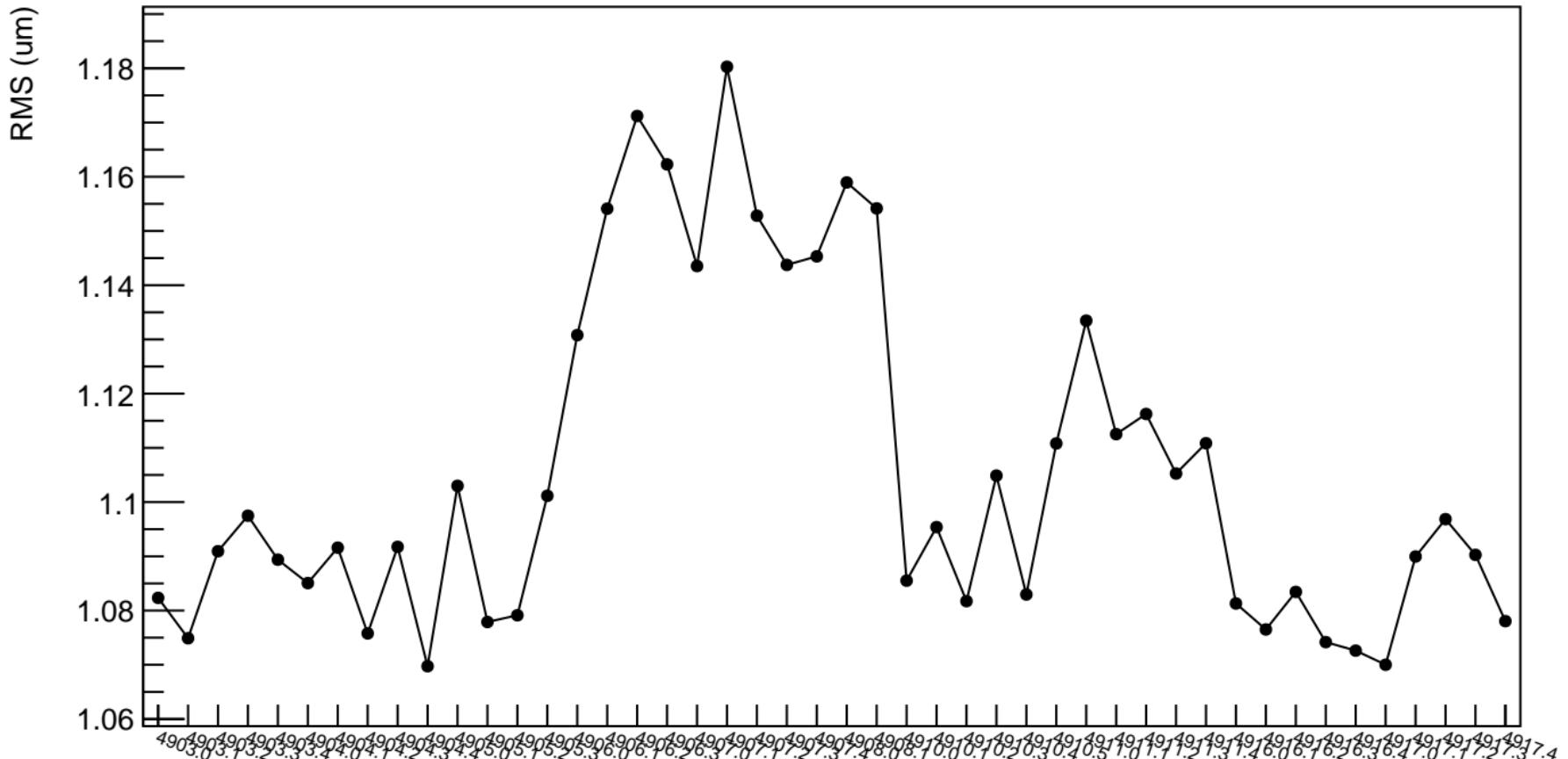
χ^2 / ndf 22.6 / 45
p0 1.415 ± 2.277



1D pull distribution

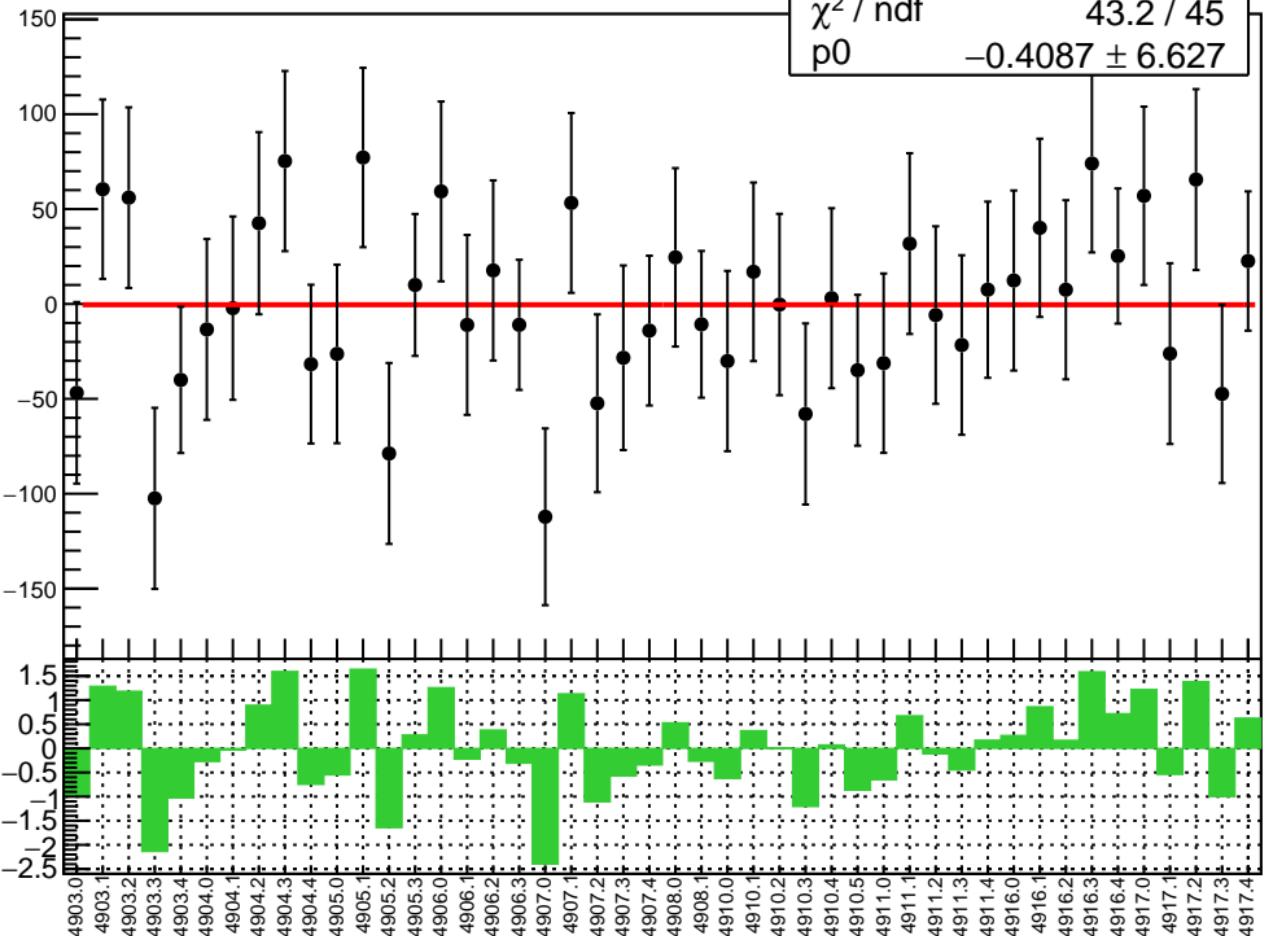


diff_bpm16Y RMS (um)

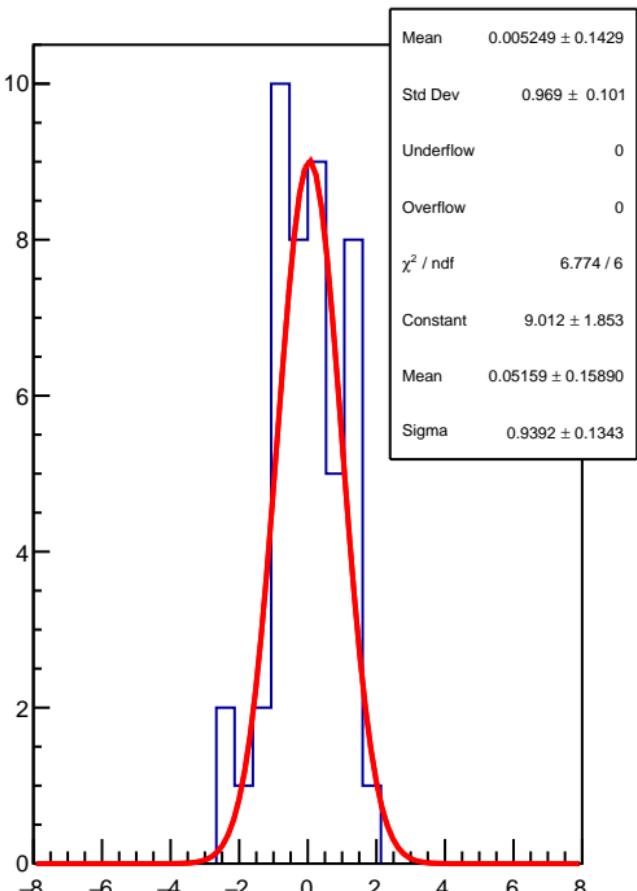


diff_bpm12X (nm)

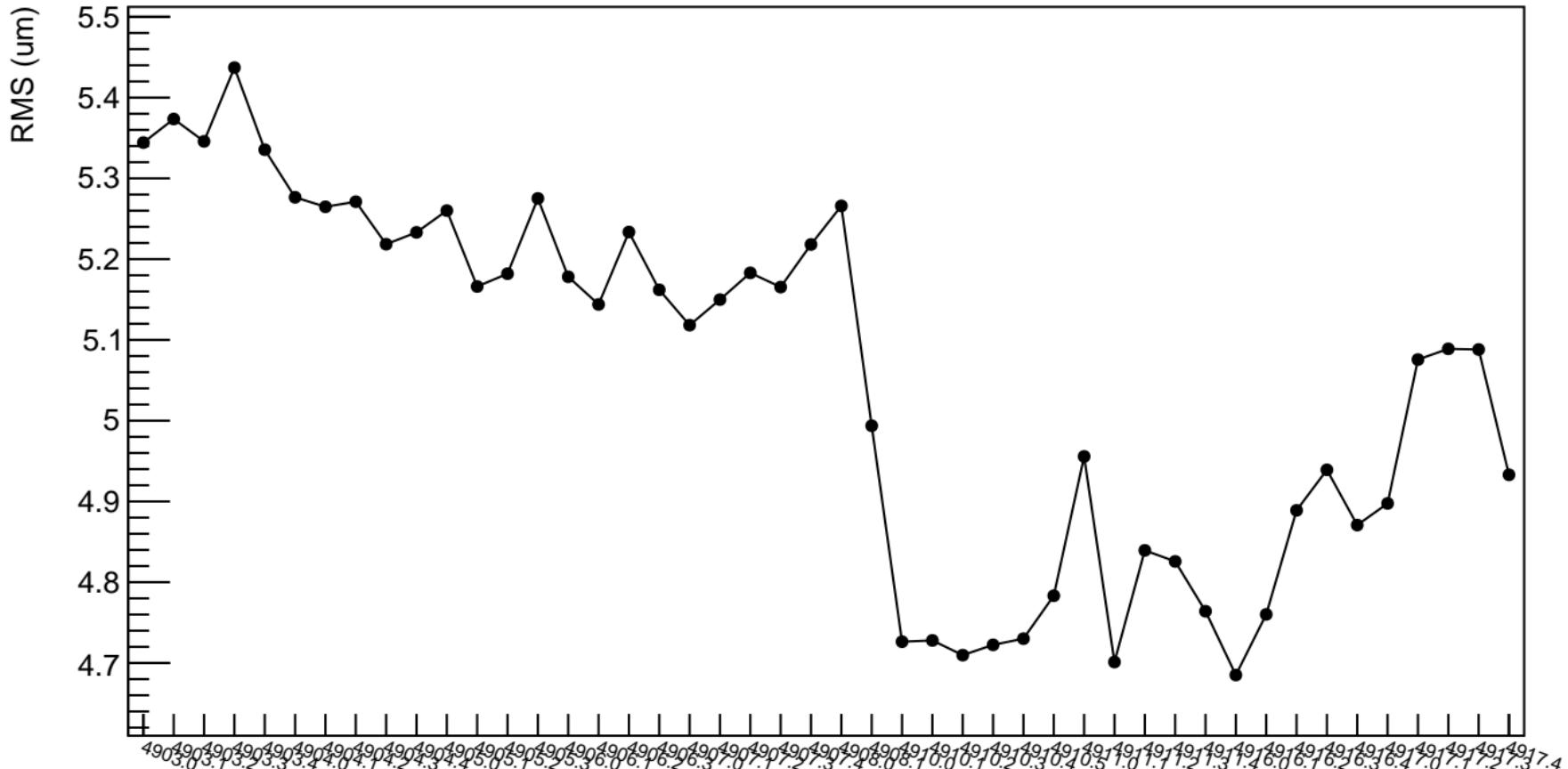
χ^2 / ndf
43.2 / 45
 p_0 -0.4087 ± 6.627



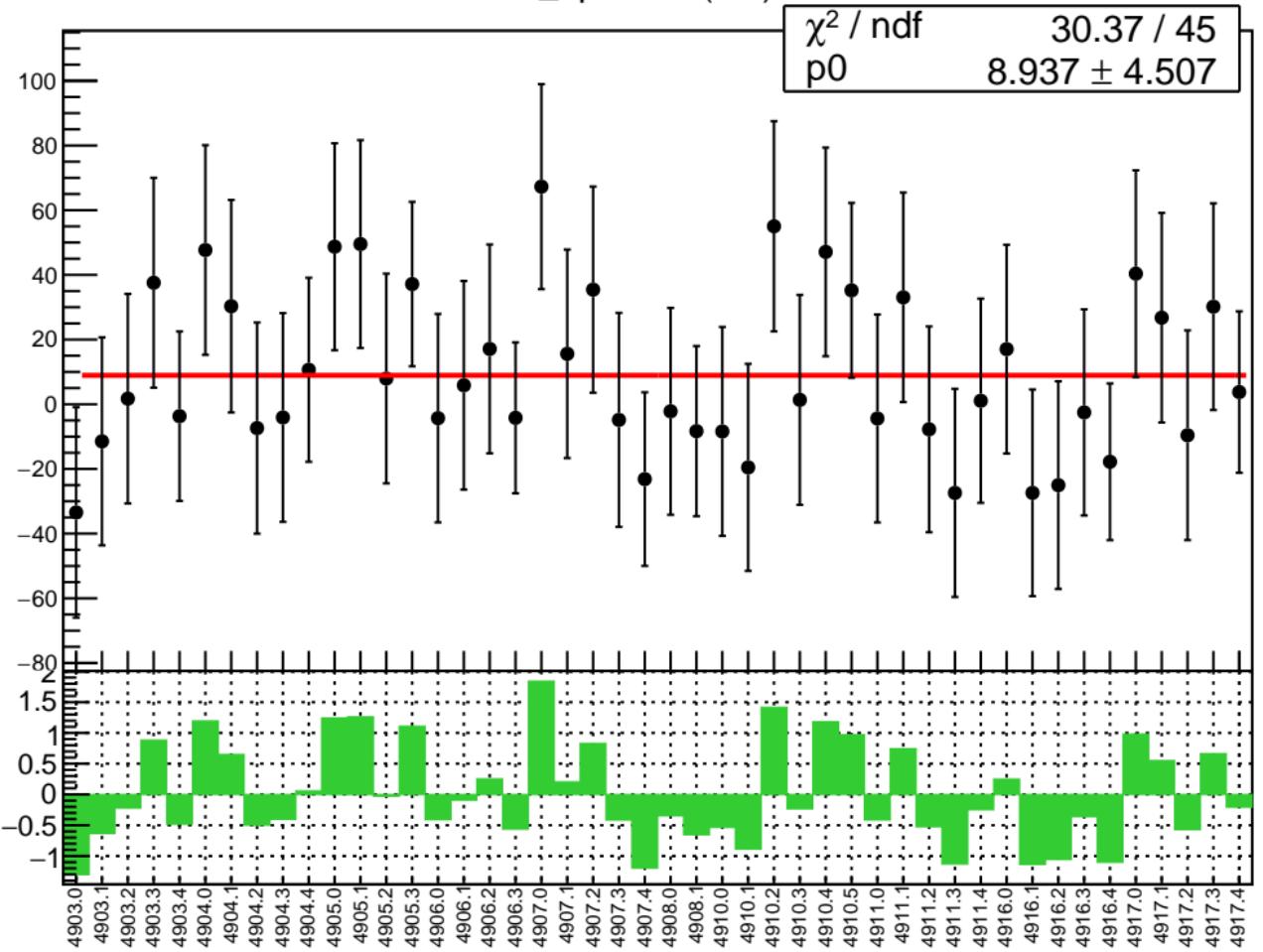
1D pull distribution



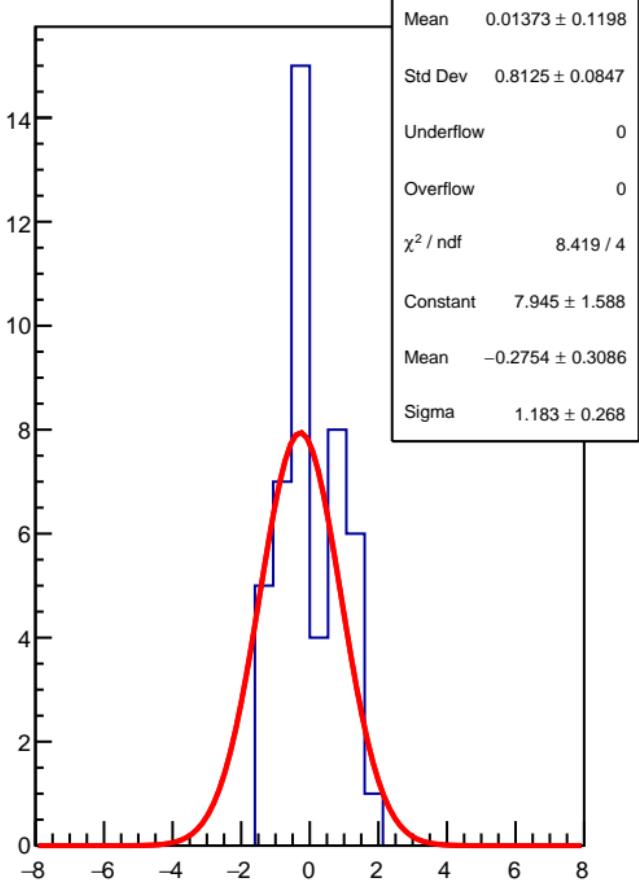
diff_bpm12X RMS (um)



diff_bpm12Y (nm)

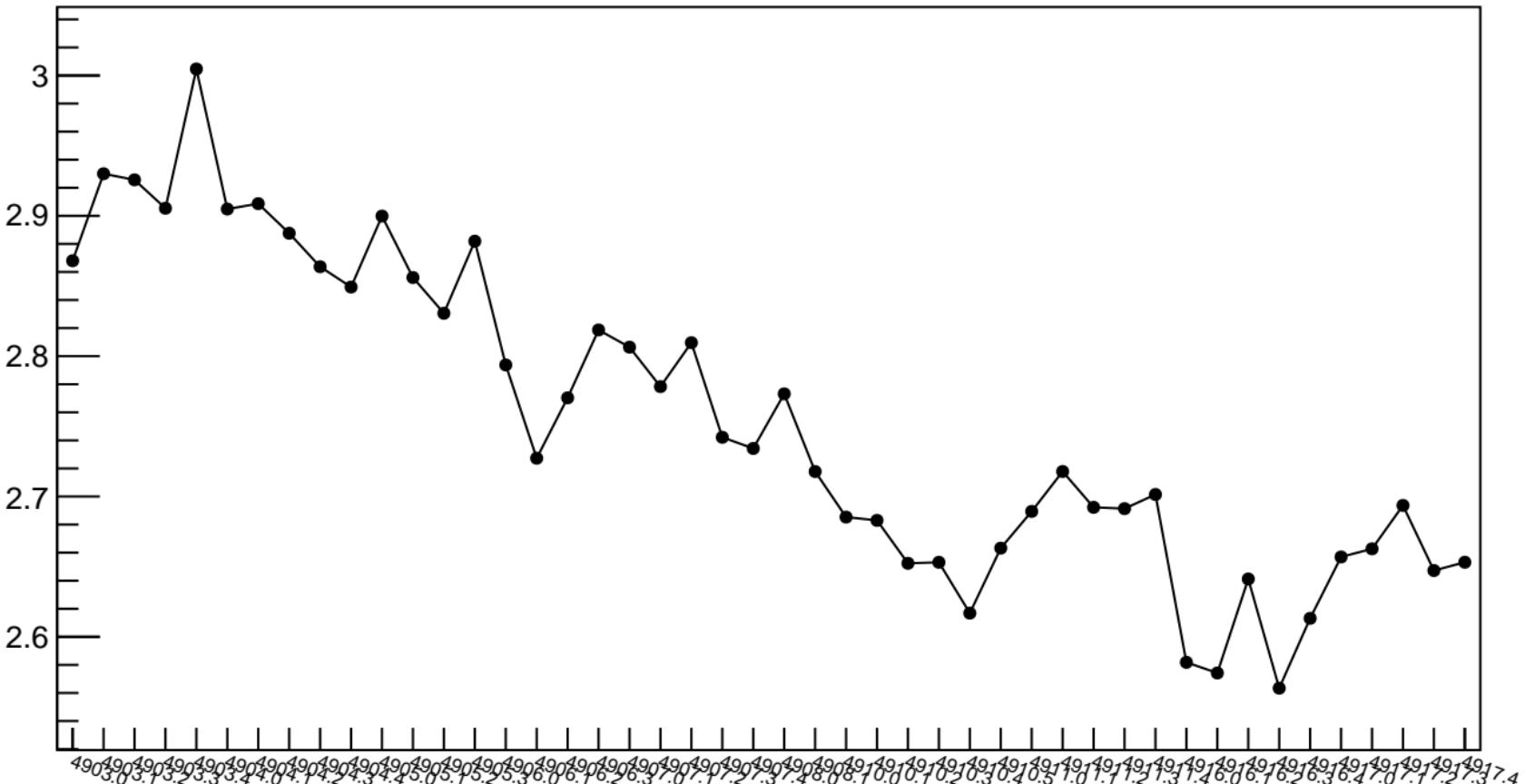


1D pull distribution

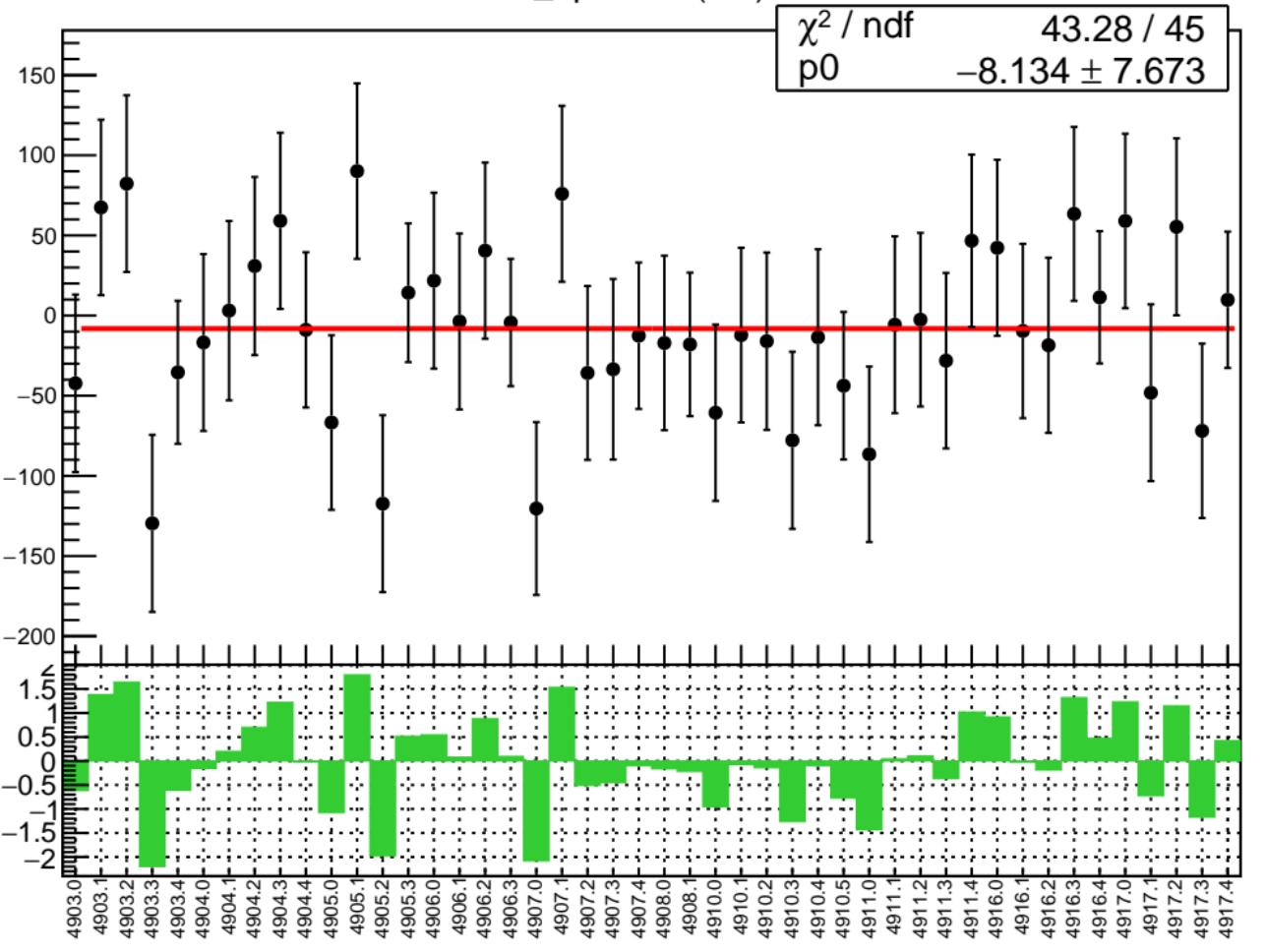


diff_bpm12Y RMS (um)

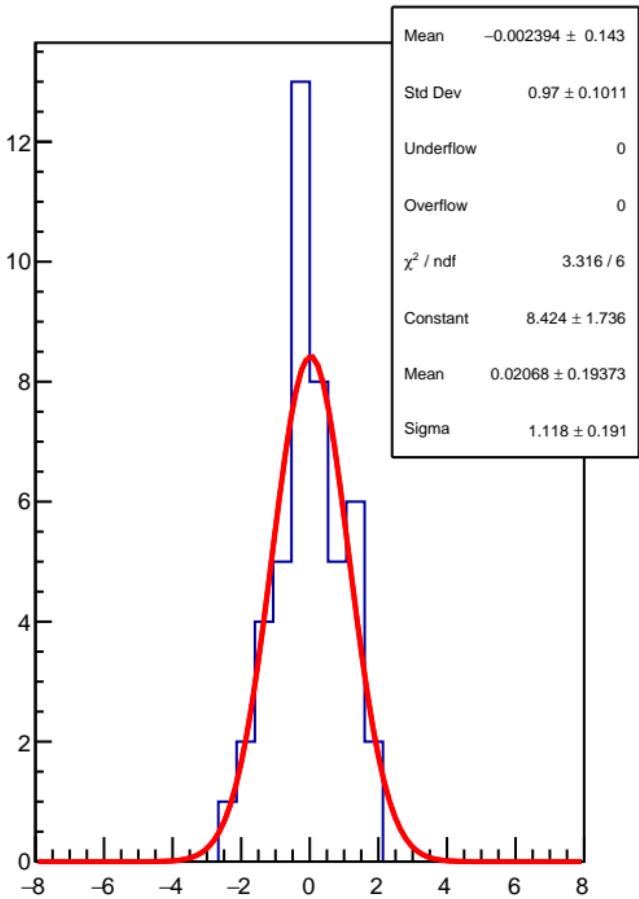
RMS (um)



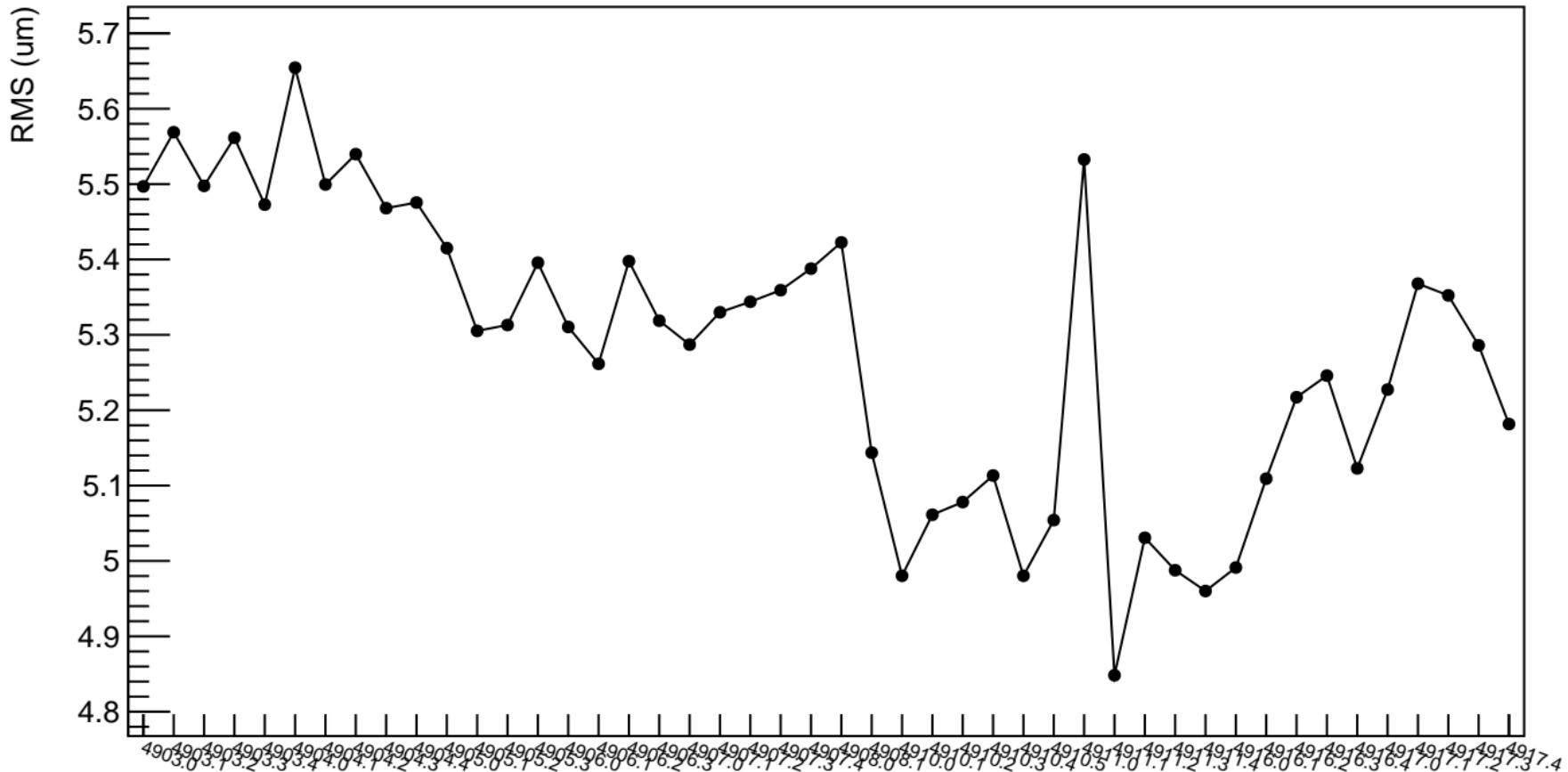
diff_bpm11X (nm)



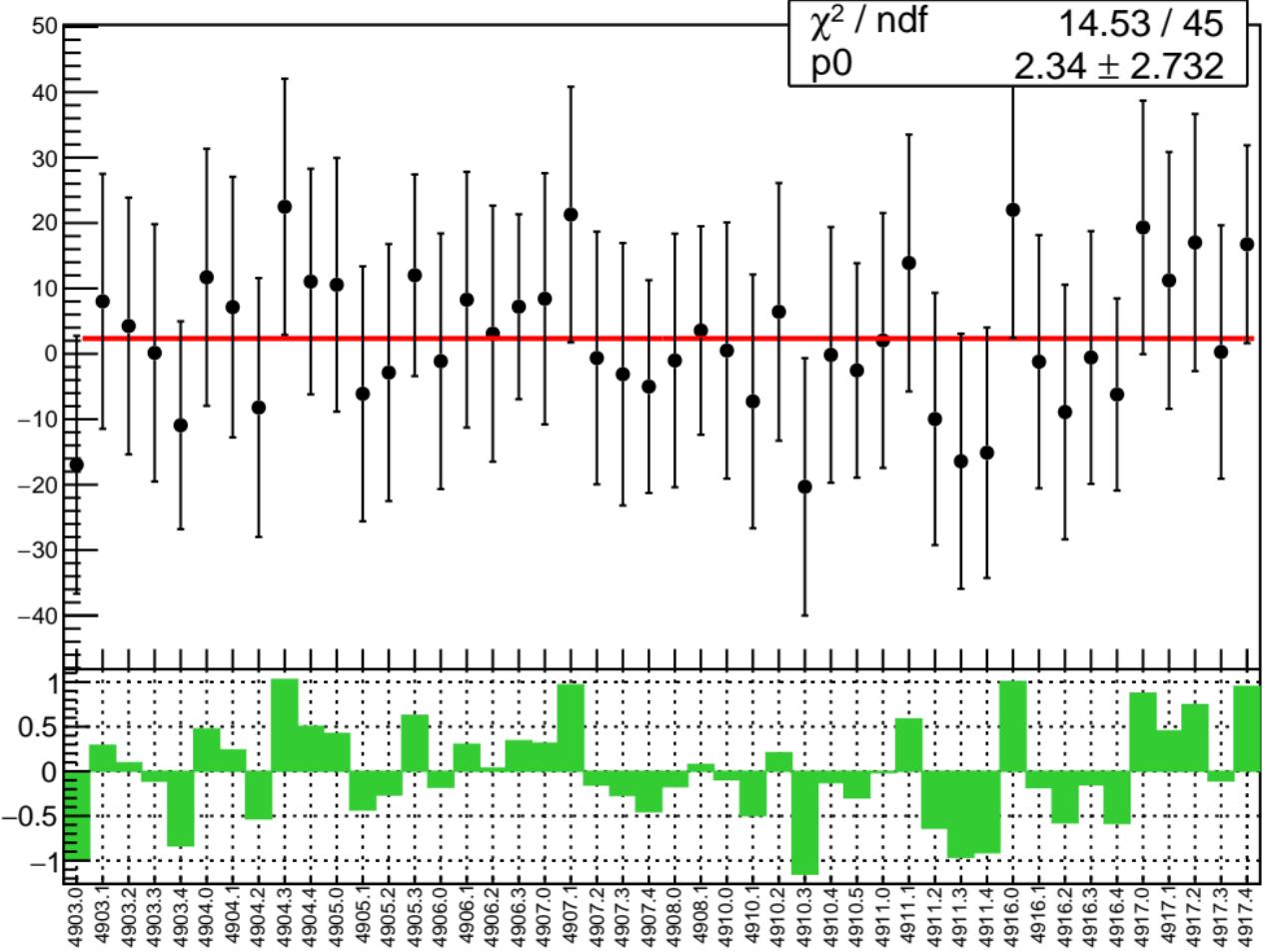
1D pull distribution



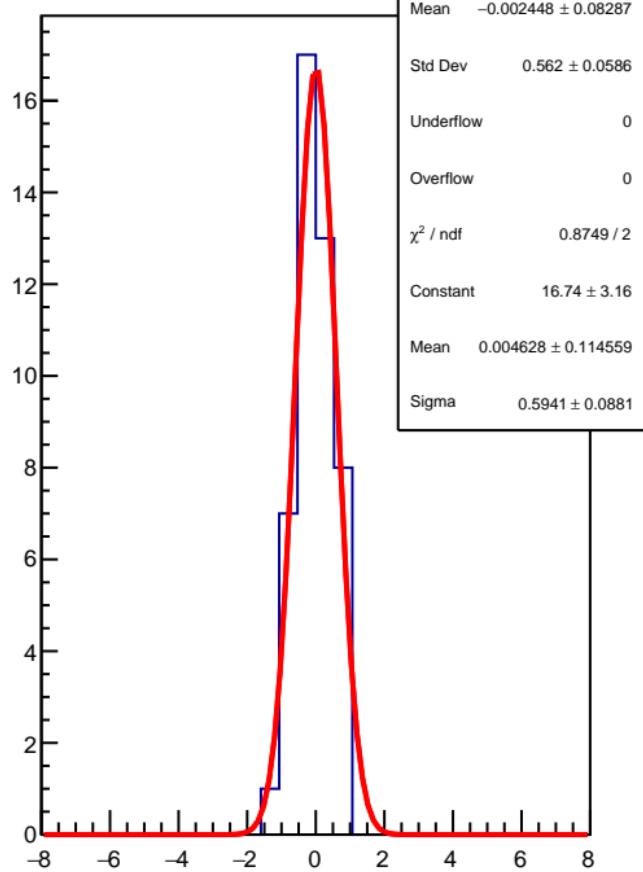
diff_bpm11X RMS (um)



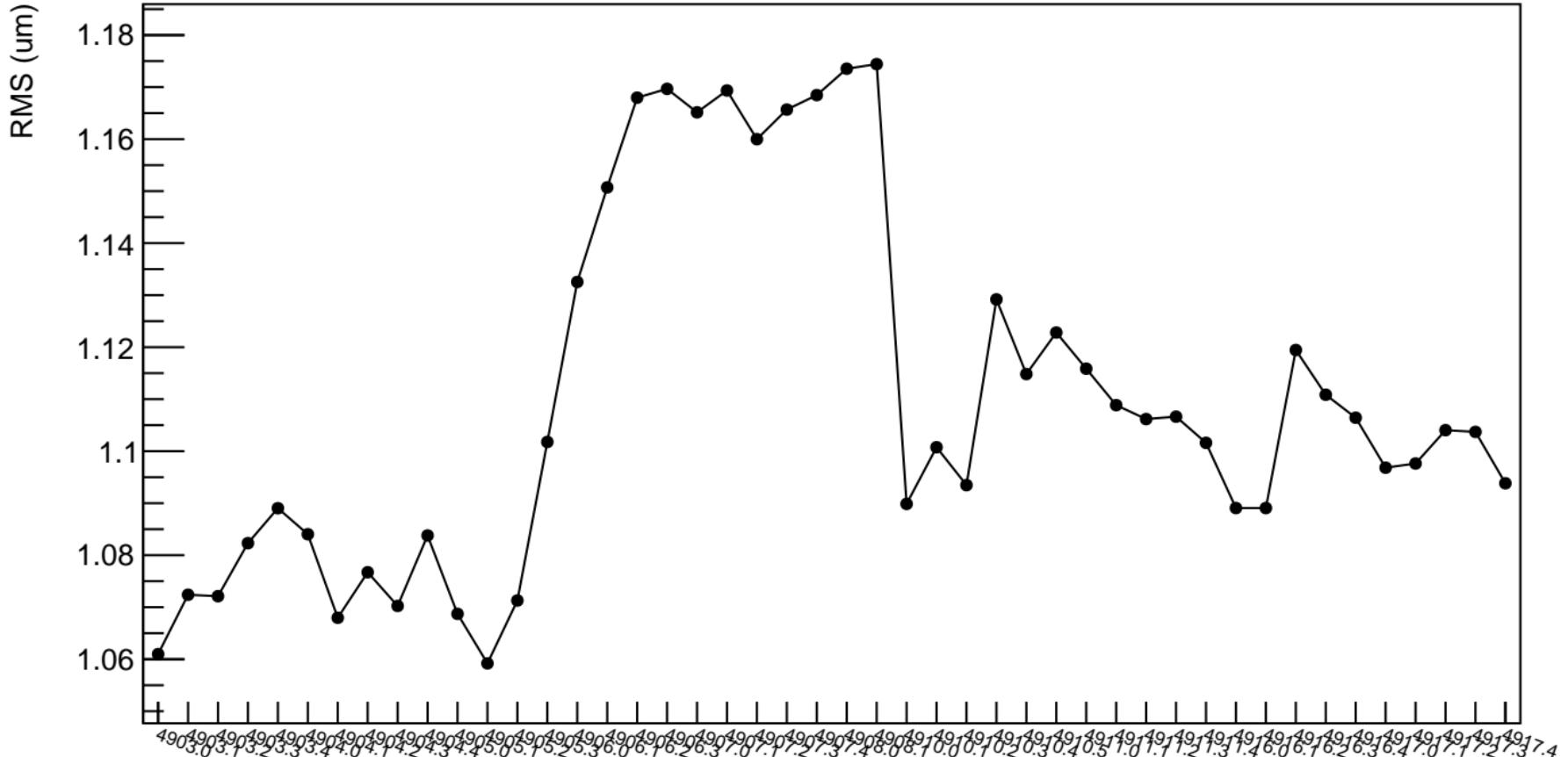
diff_bpm11Y (nm)



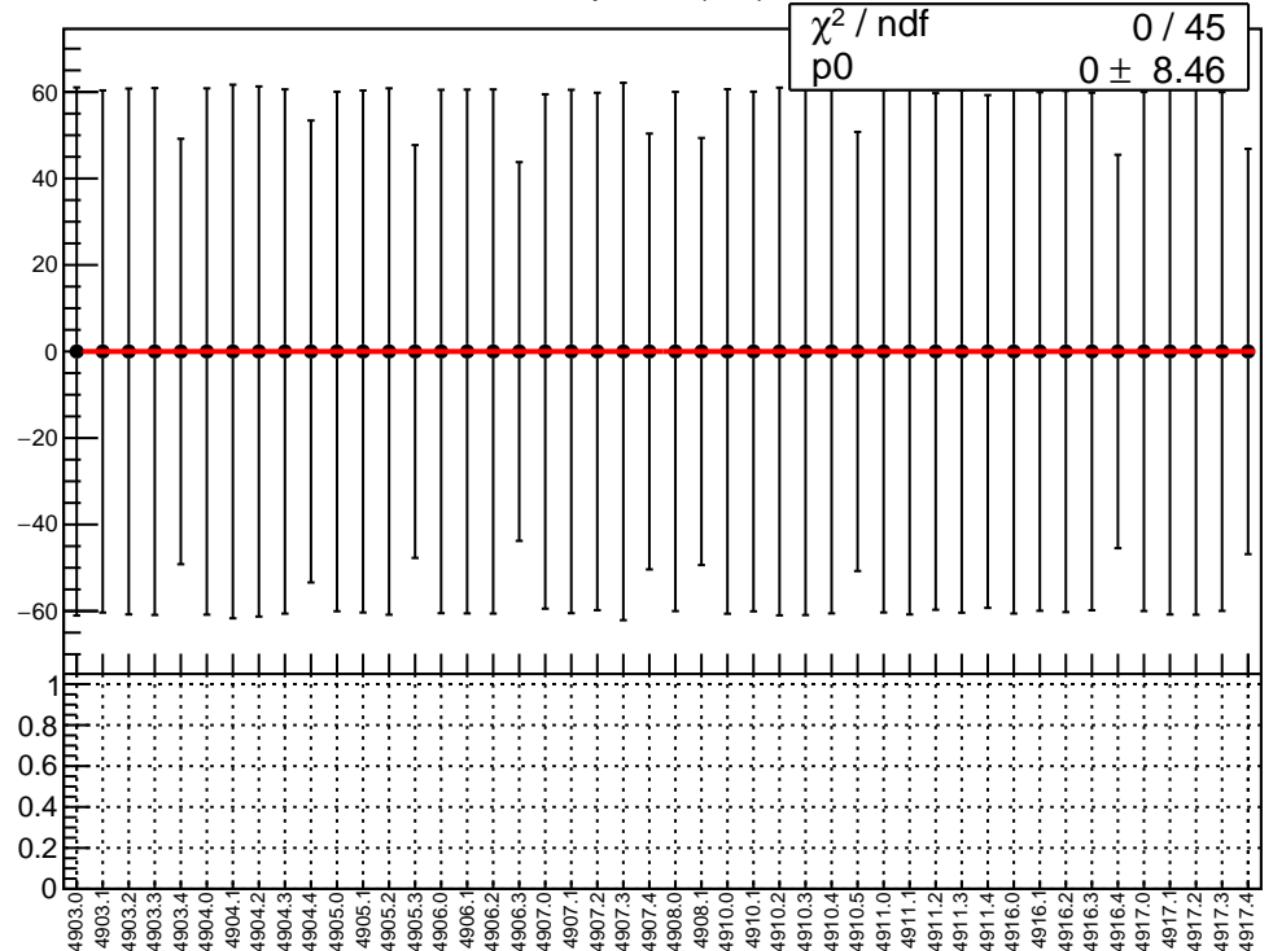
1D pull distribution



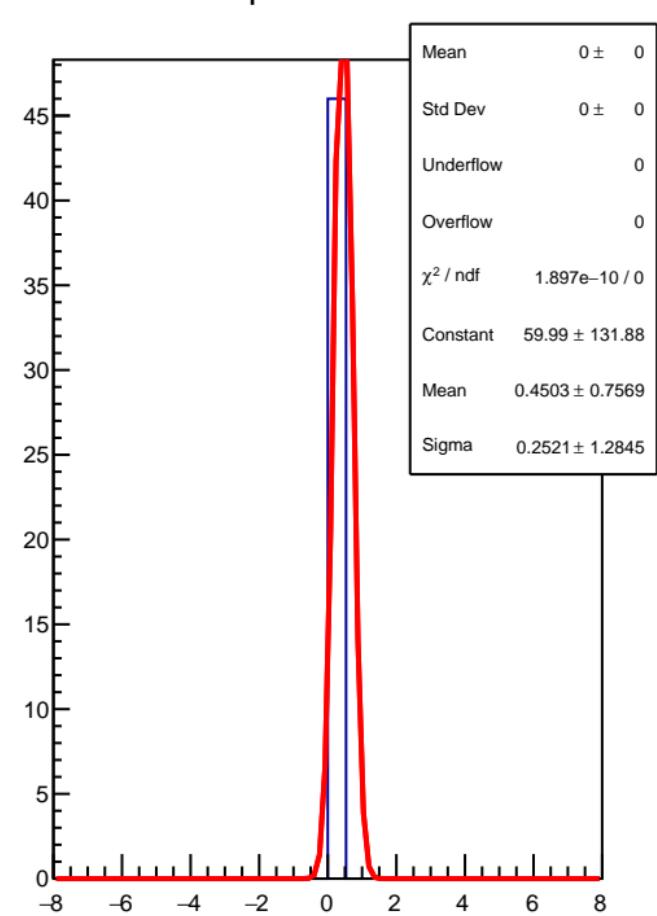
diff_bpm11Y RMS (um)



diff_bpm8X (nm)

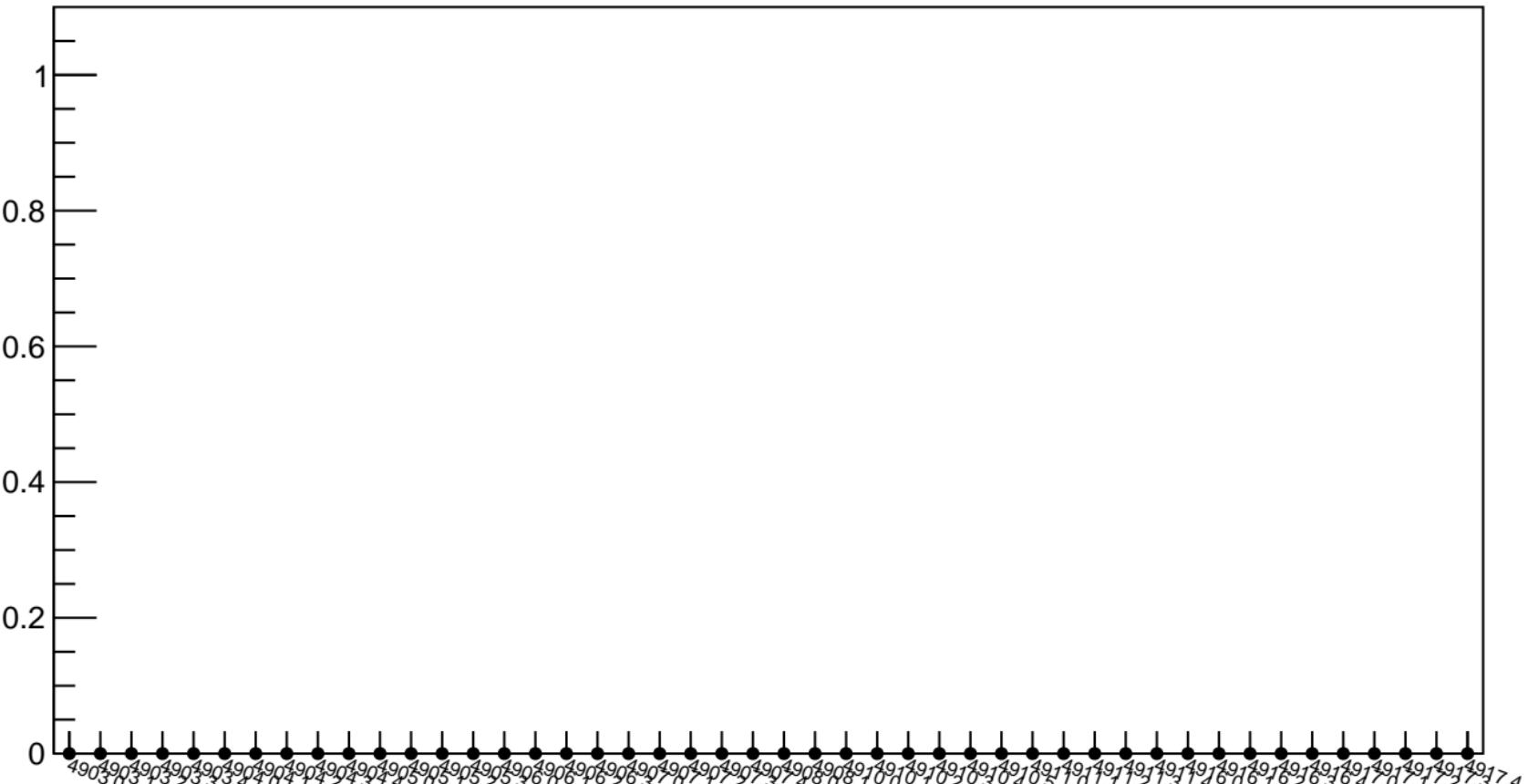


1D pull distribution

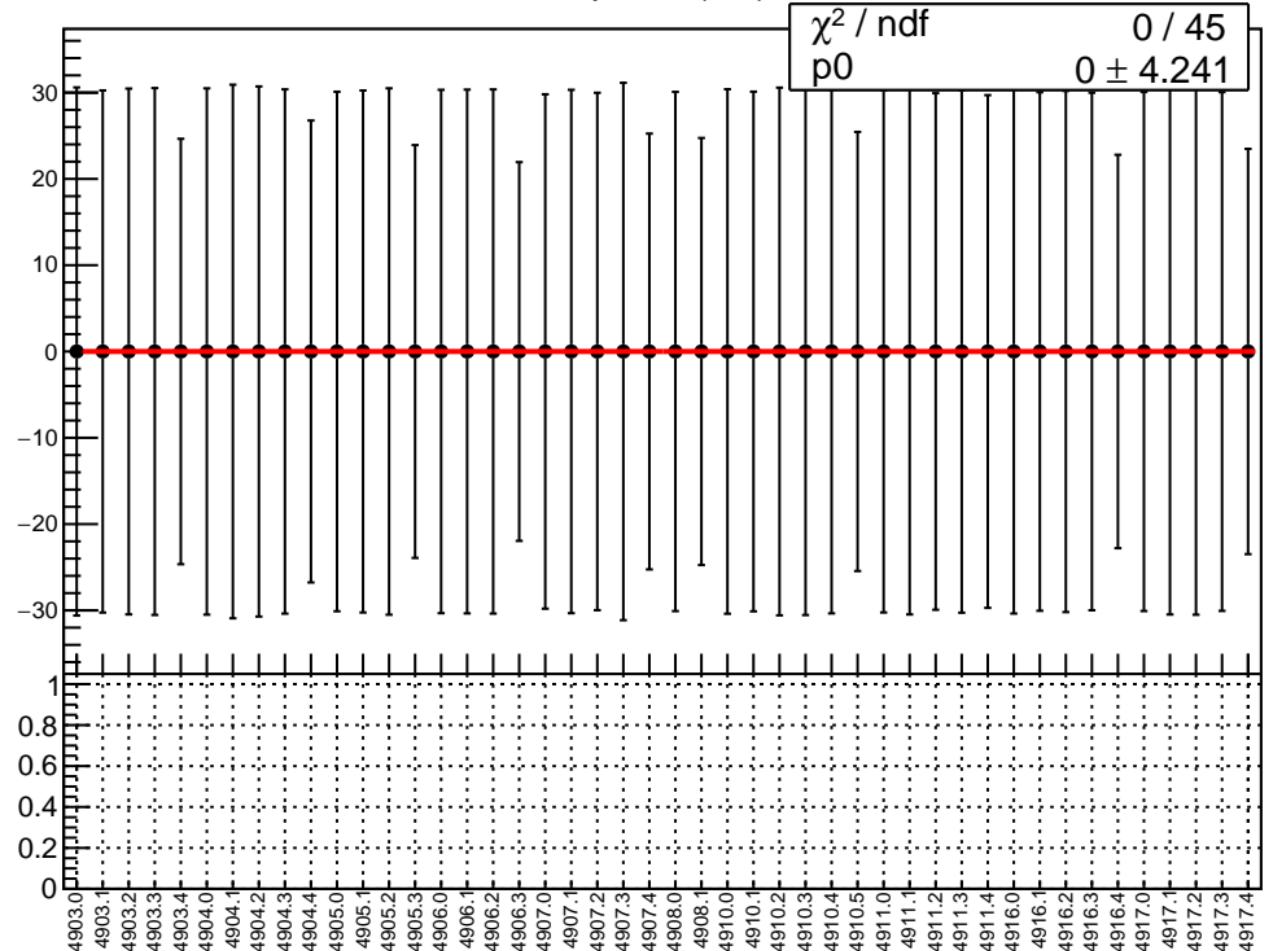


diff_bpm8X RMS (um)

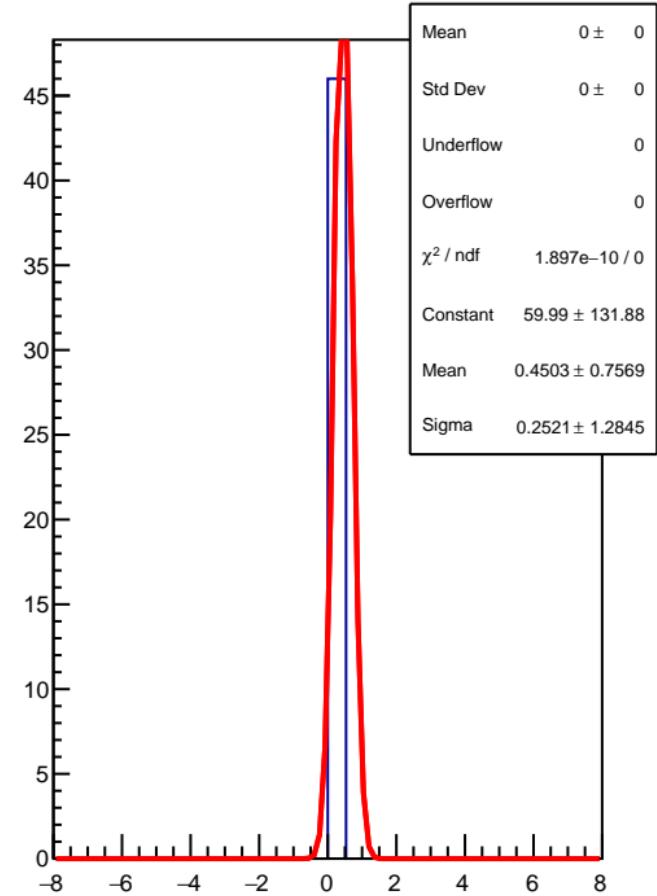
RMS (um)



diff_bpm8Y (nm)

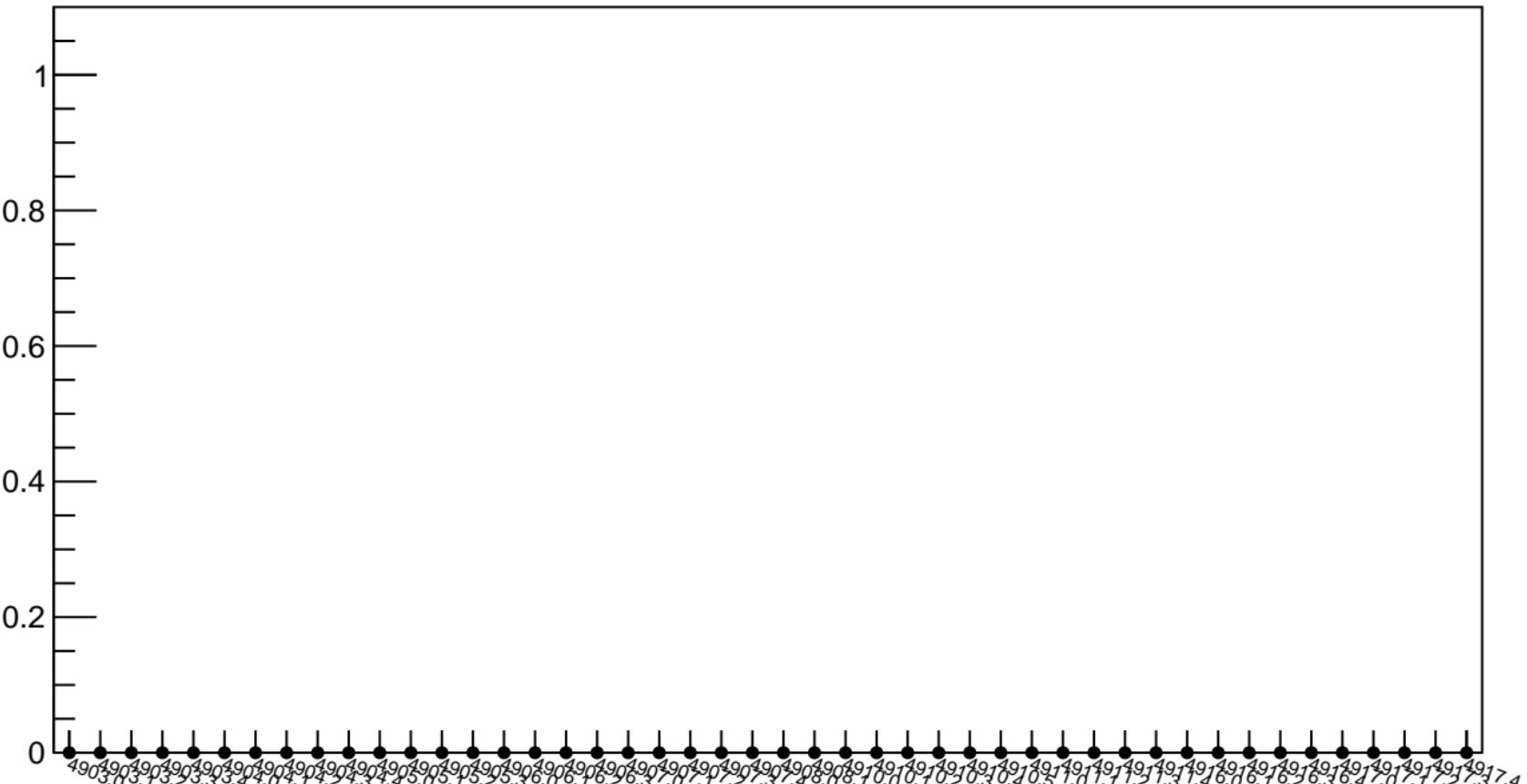


1D pull distribution

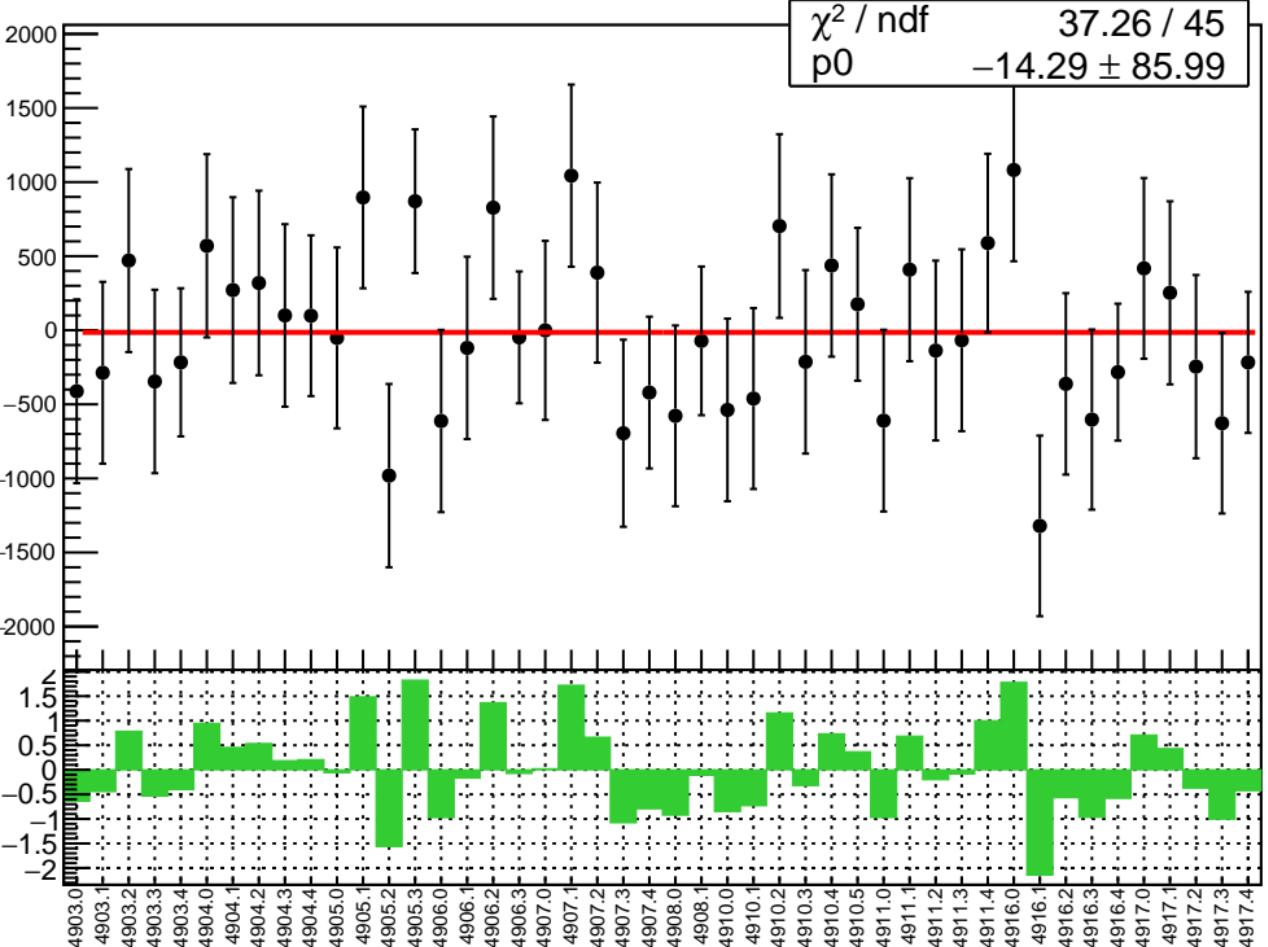


diff_bpm8Y RMS (um)

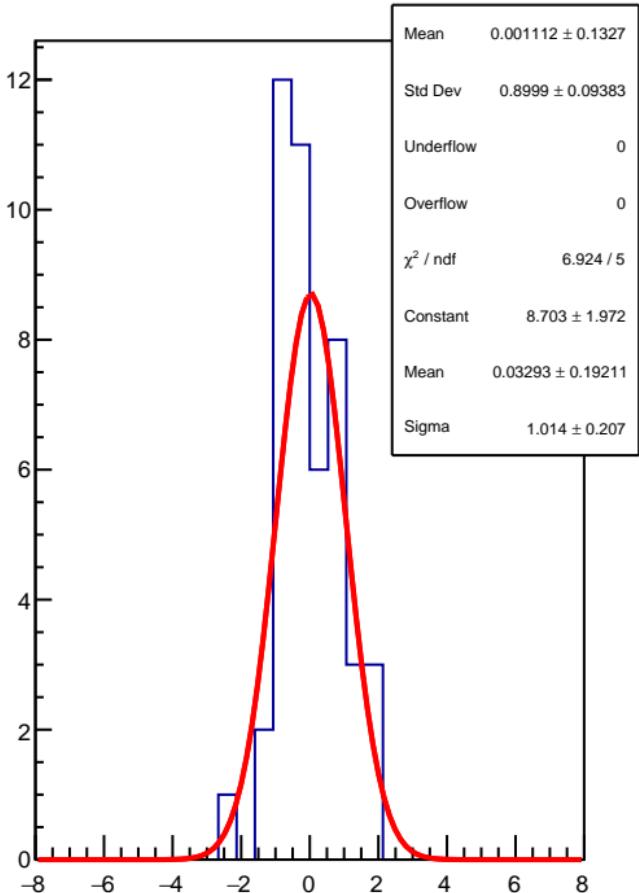
RMS (um)



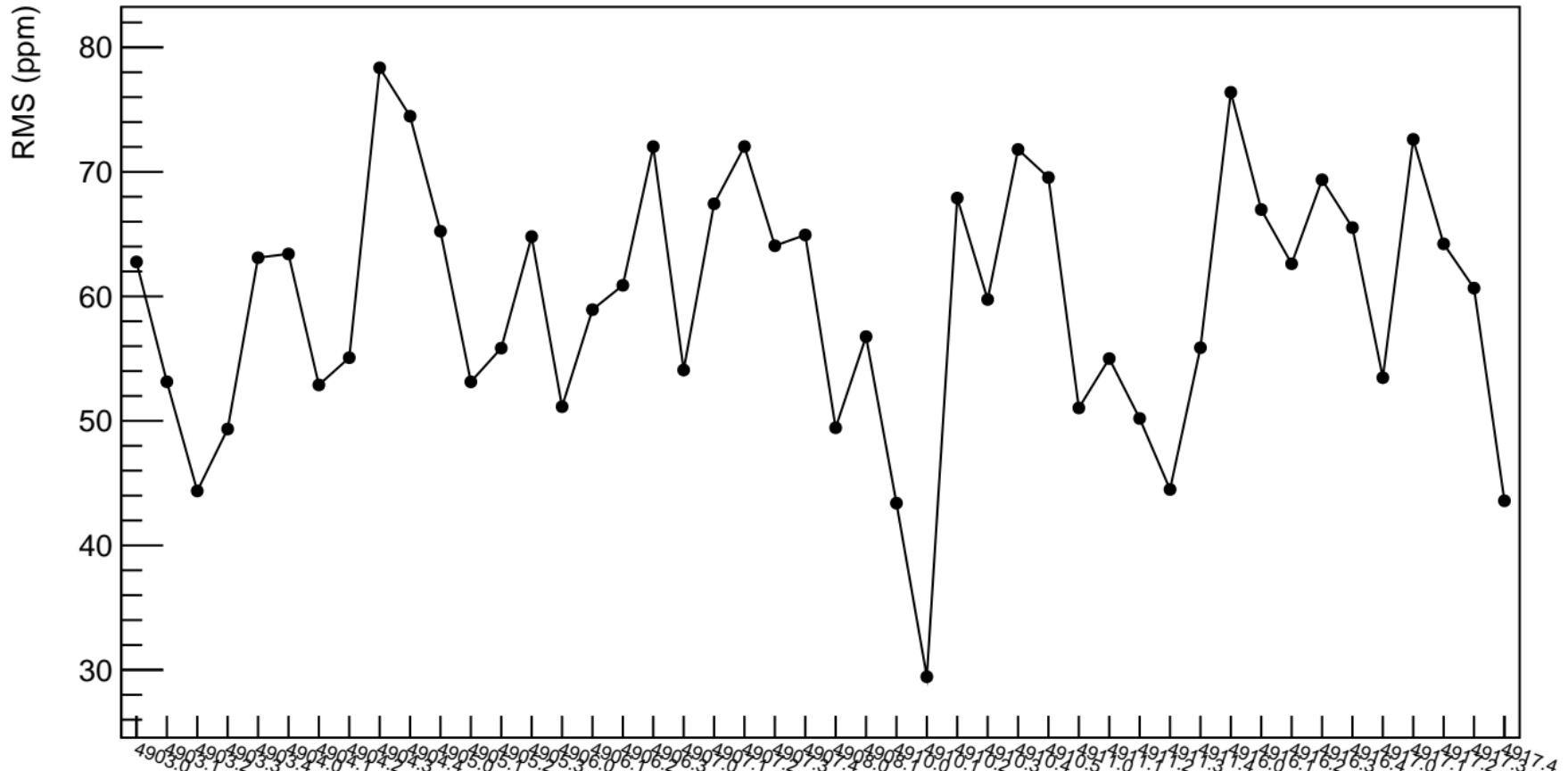
corr_us_avg_bpm4eX (ppb)



1D pull distribution

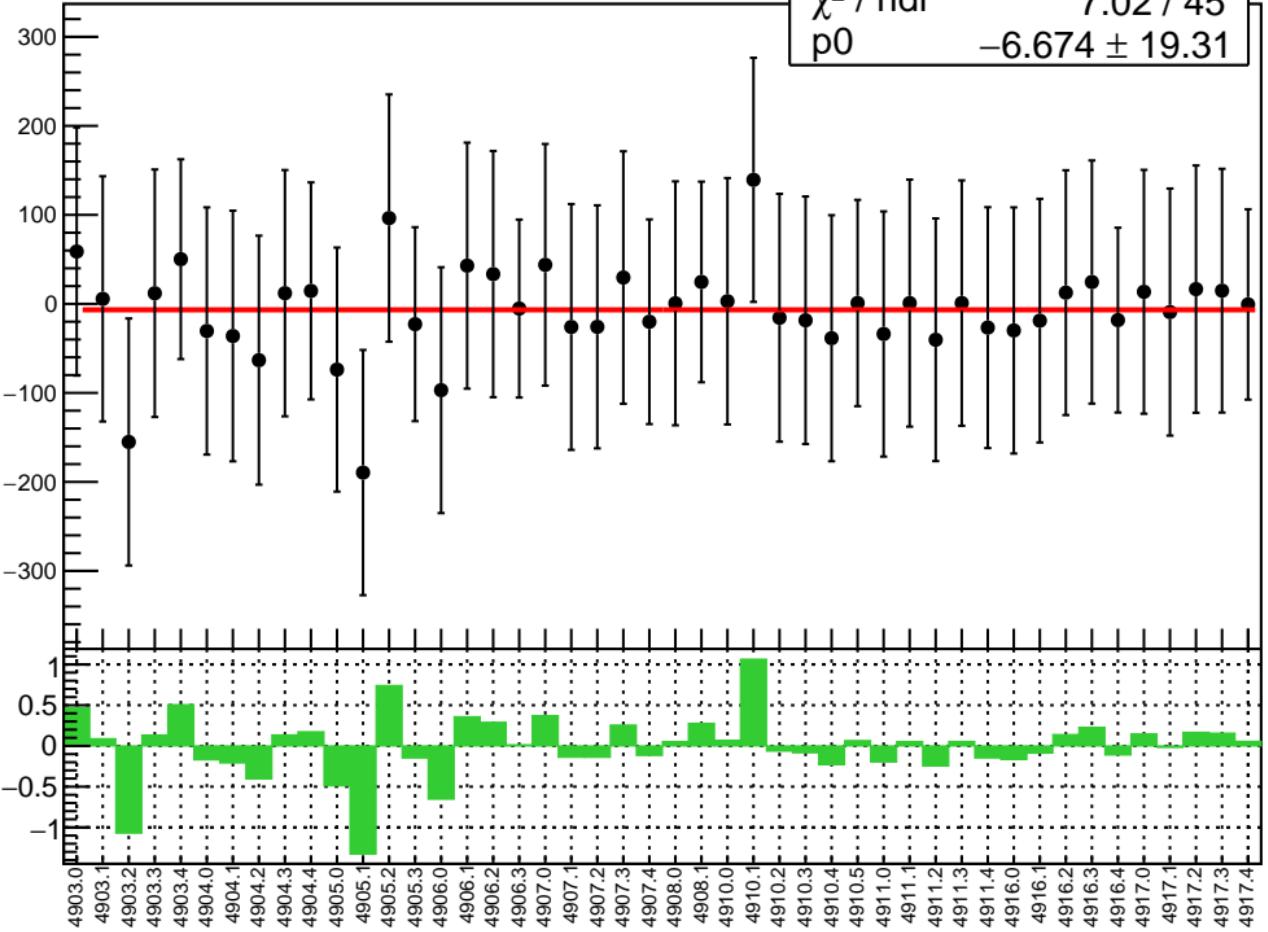


corr_us_avg_bpm4eX RMS (ppm)

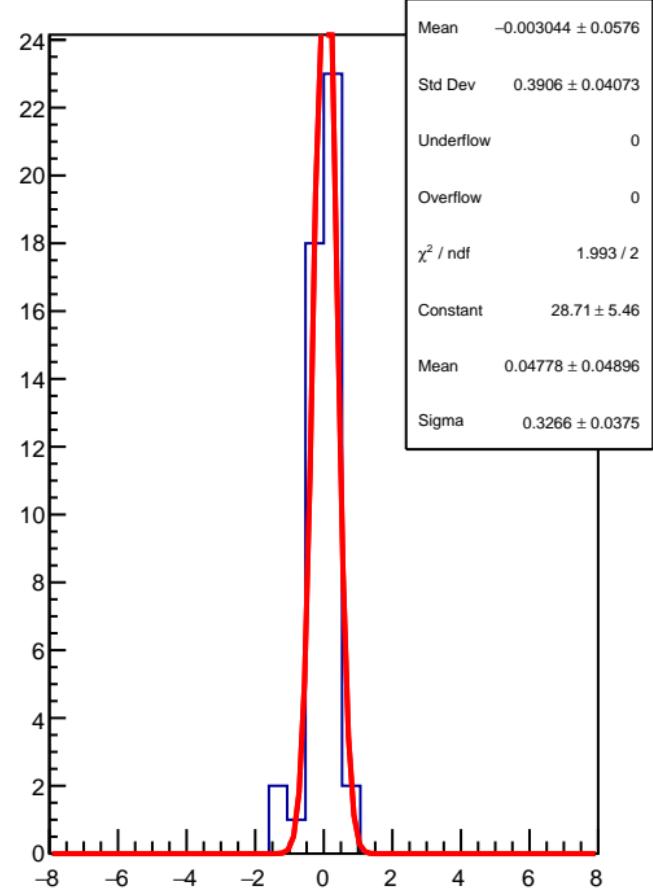


corr_us_avg_bpm4eY (ppb)

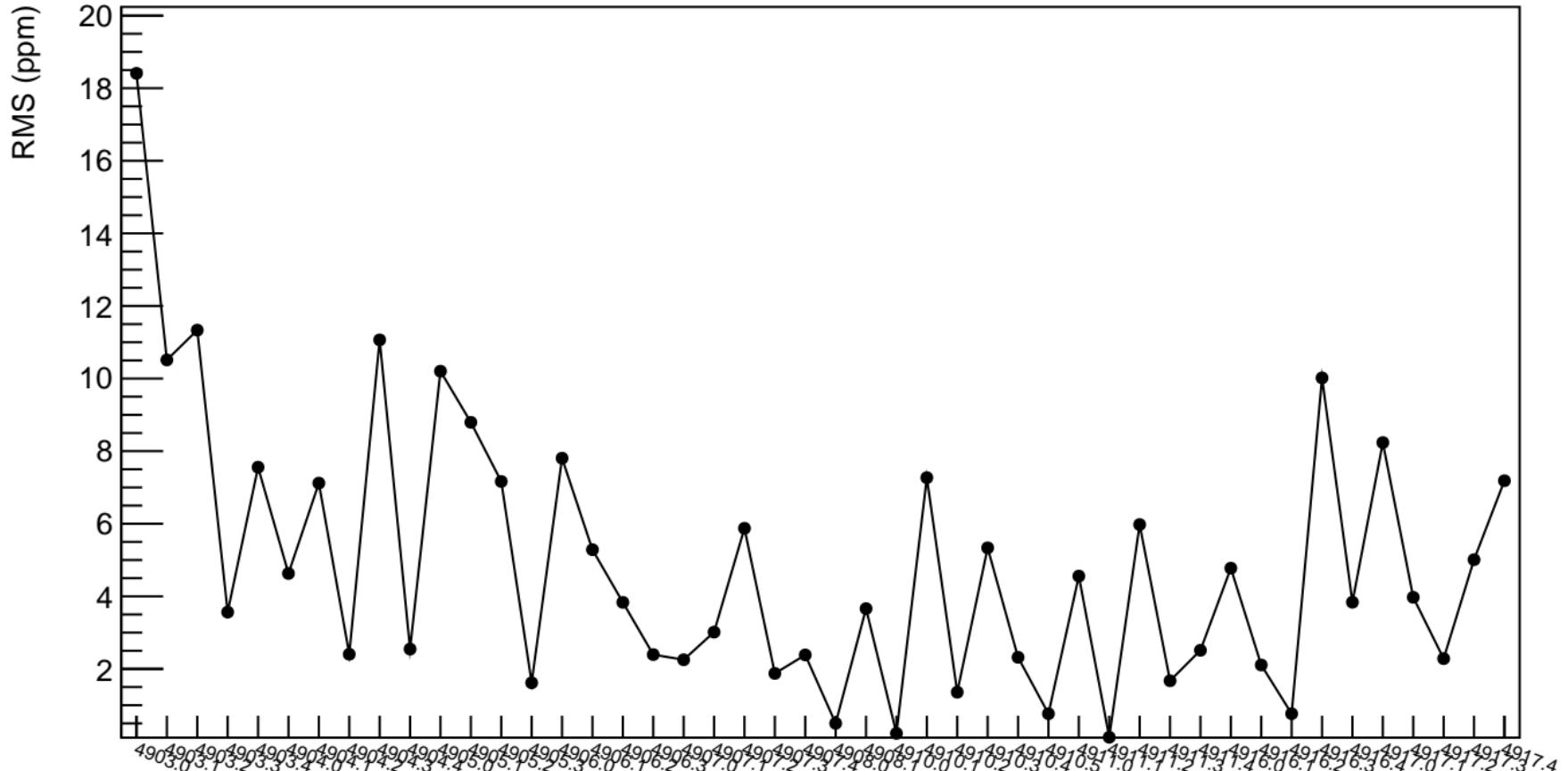
χ^2 / ndf 7.02 / 45
p0 -6.674 ± 19.31



1D pull distribution

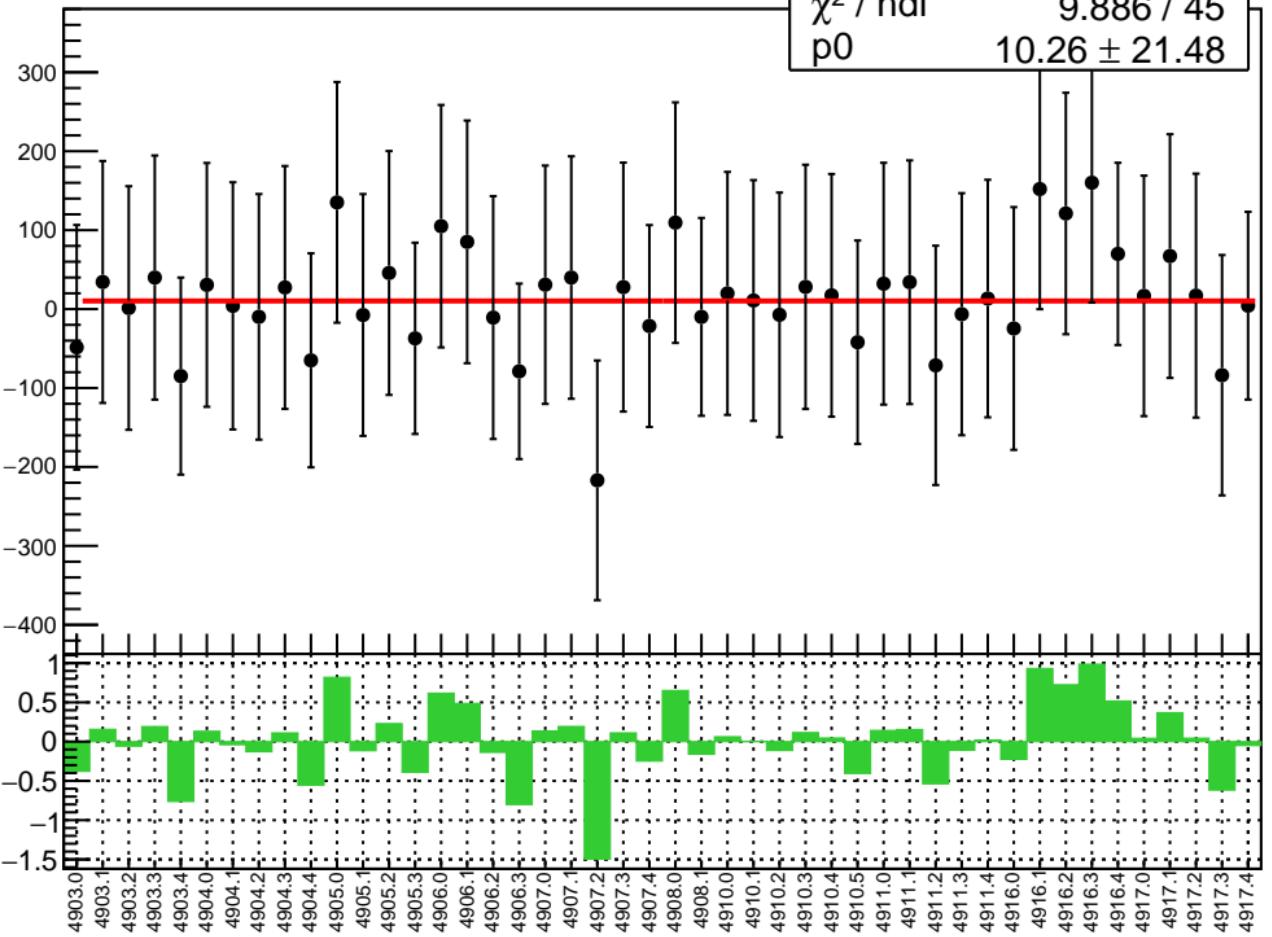


corr_us_avg_bpm4eY RMS (ppm)

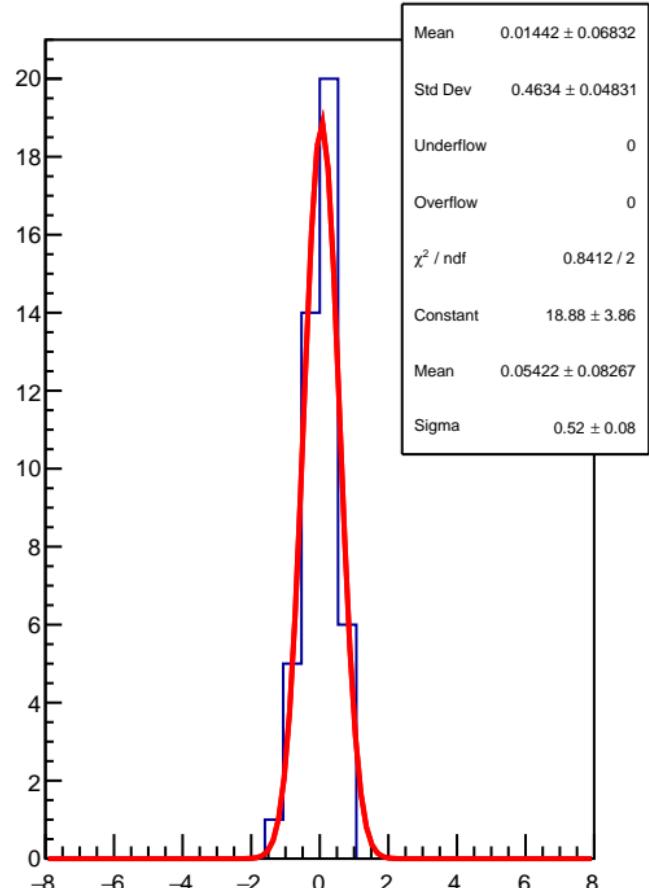


corr_us_avg_bpm4aX (ppb)

χ^2 / ndf 9.886 / 45
p0 10.26 ± 21.48

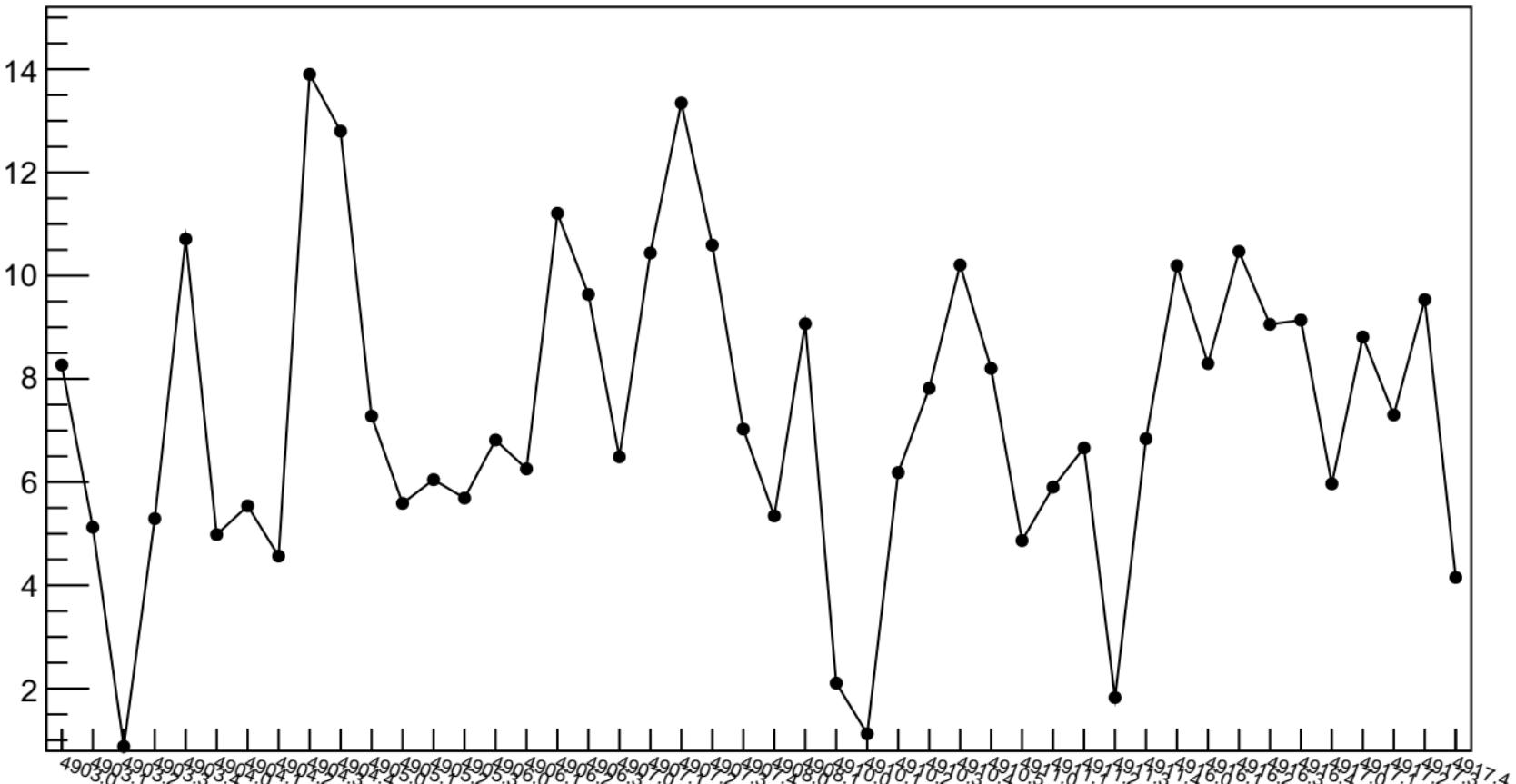


1D pull distribution



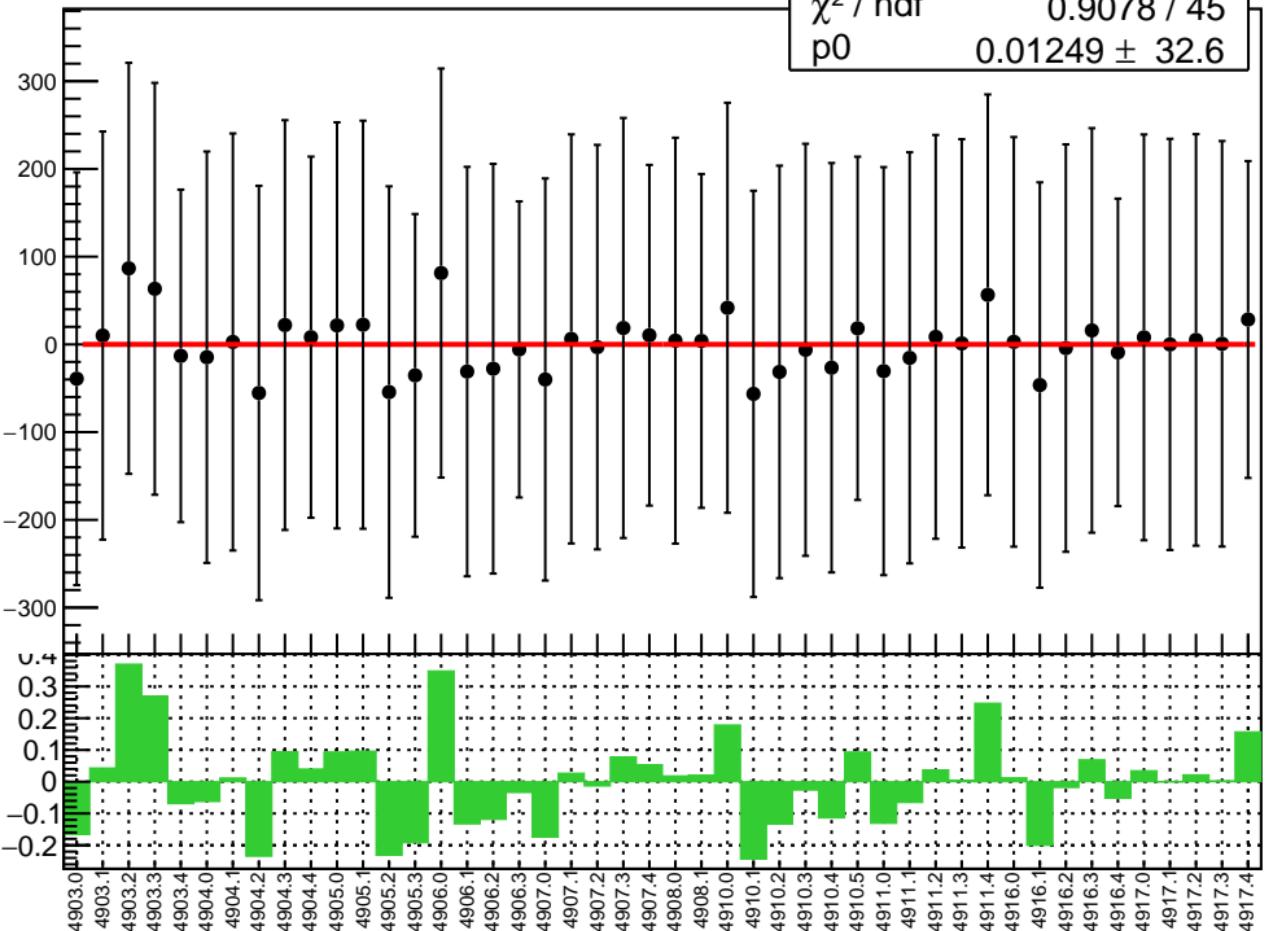
corr_us_avg_bpm4aX RMS (ppm)

RMS (ppm)

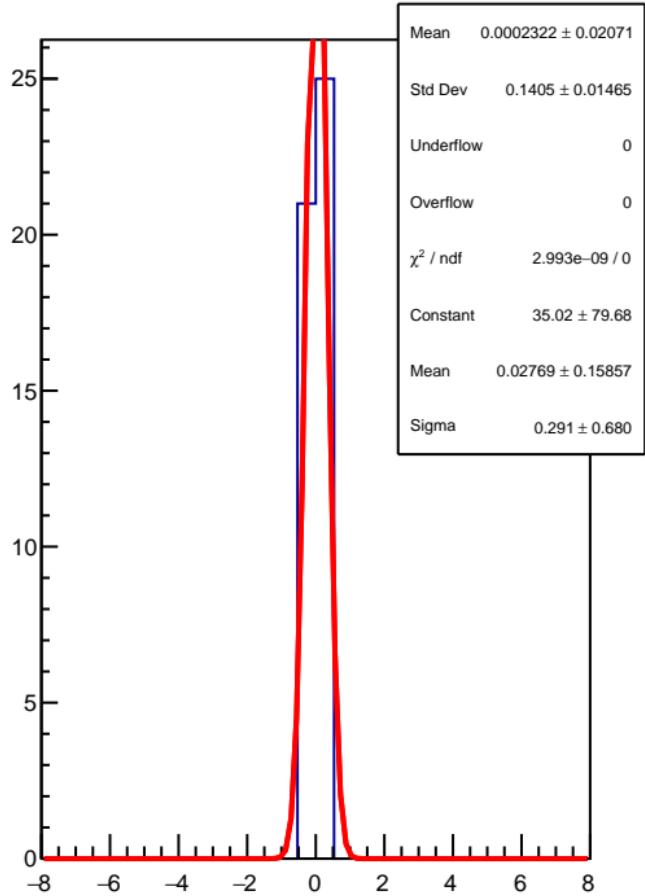


corr_us_avg_bpm4aY (ppb)

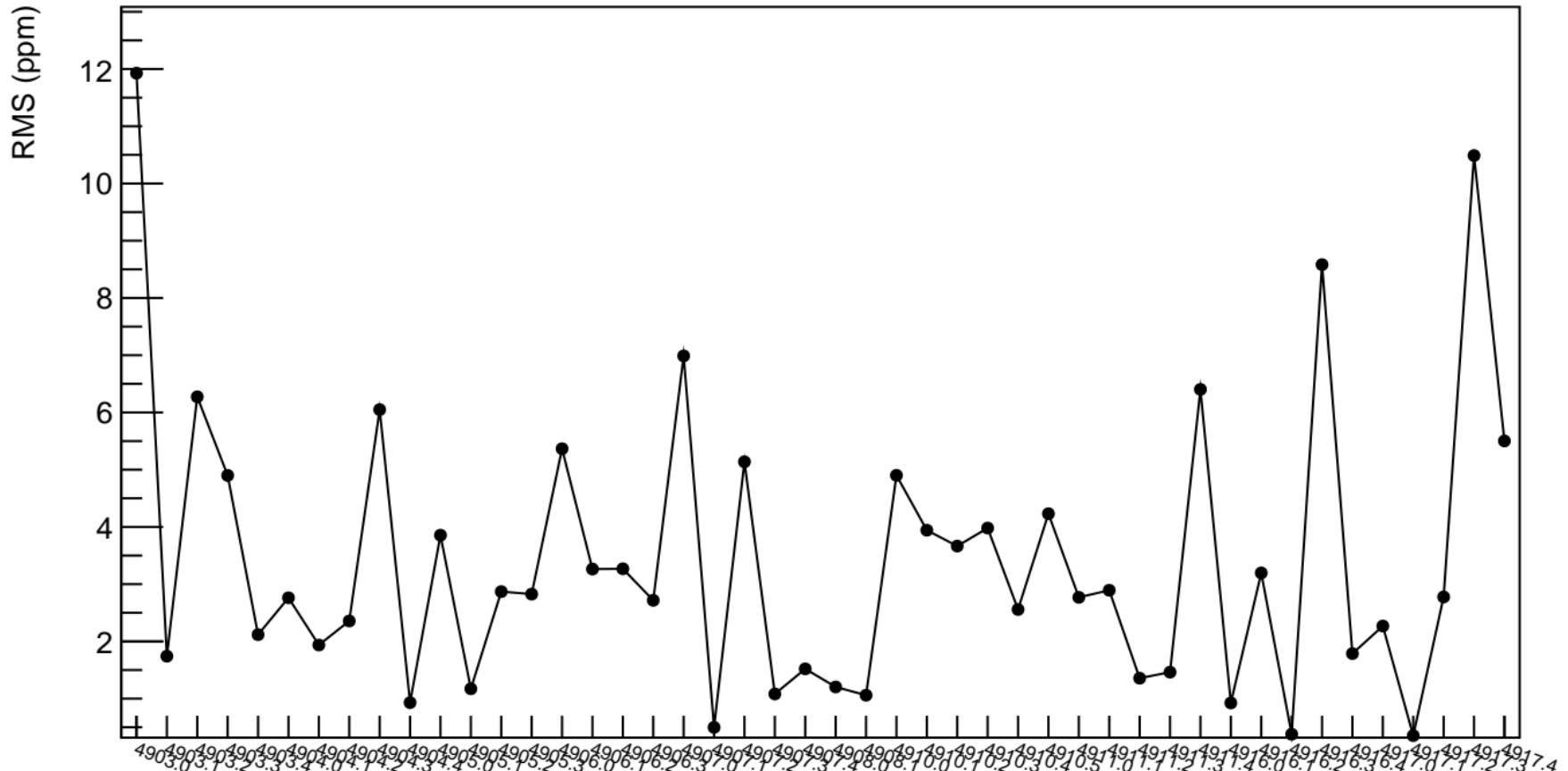
χ^2 / ndf 0.9078 / 45
 p_0 0.01249 ± 32.6



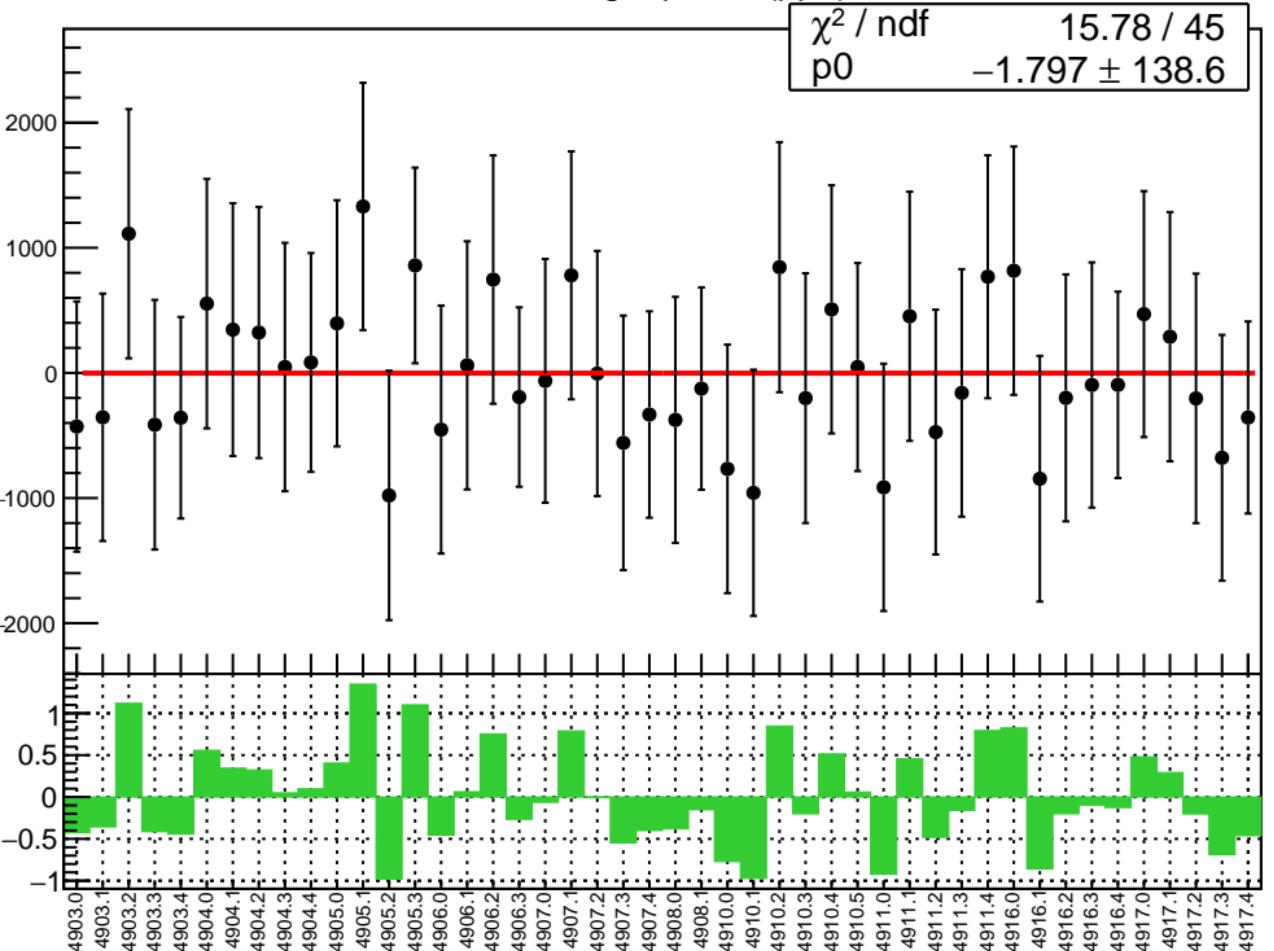
1D pull distribution



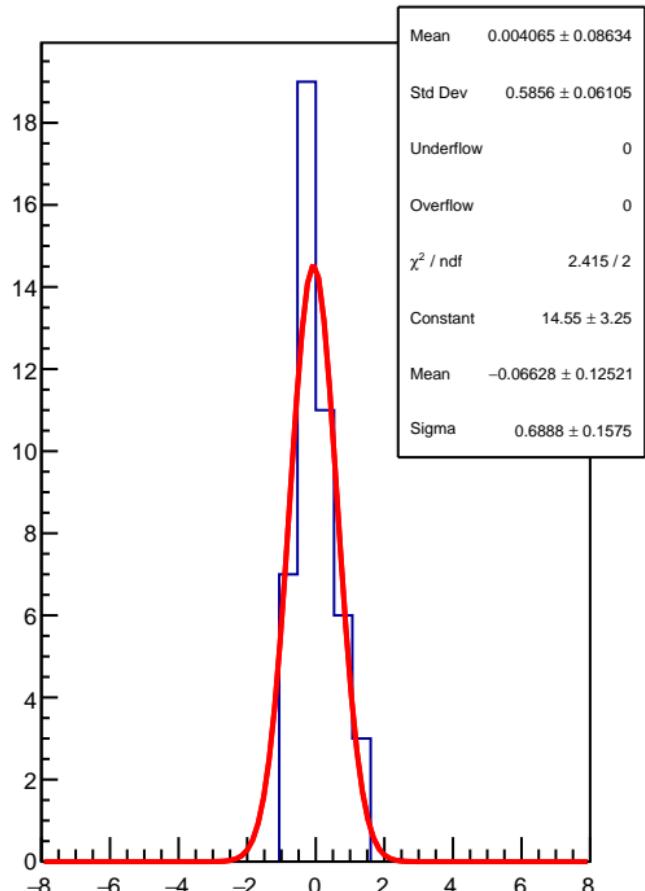
corr_us_avg_bpm4aY RMS (ppm)



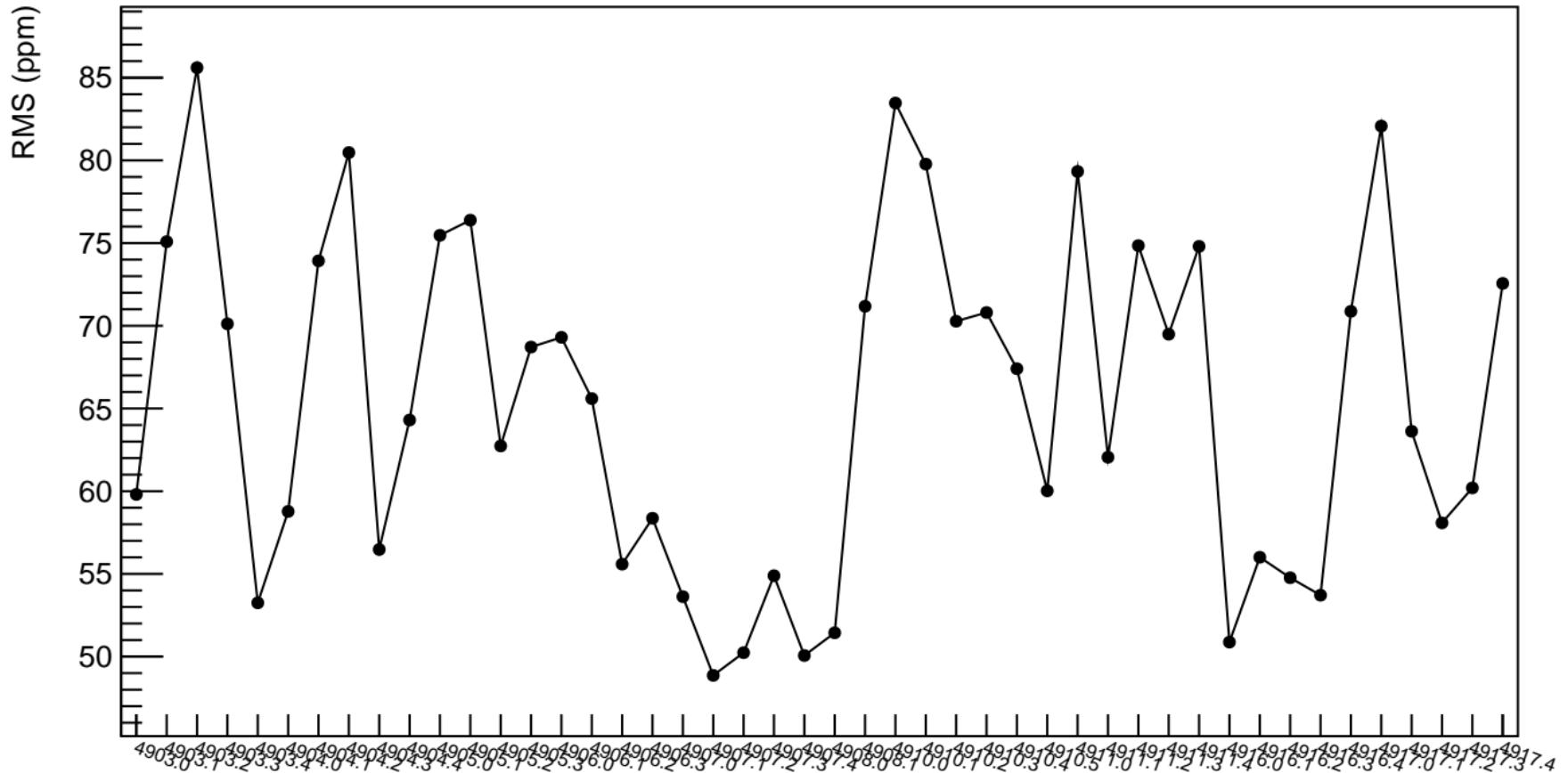
corr_us_avg_bpm1X (ppb)



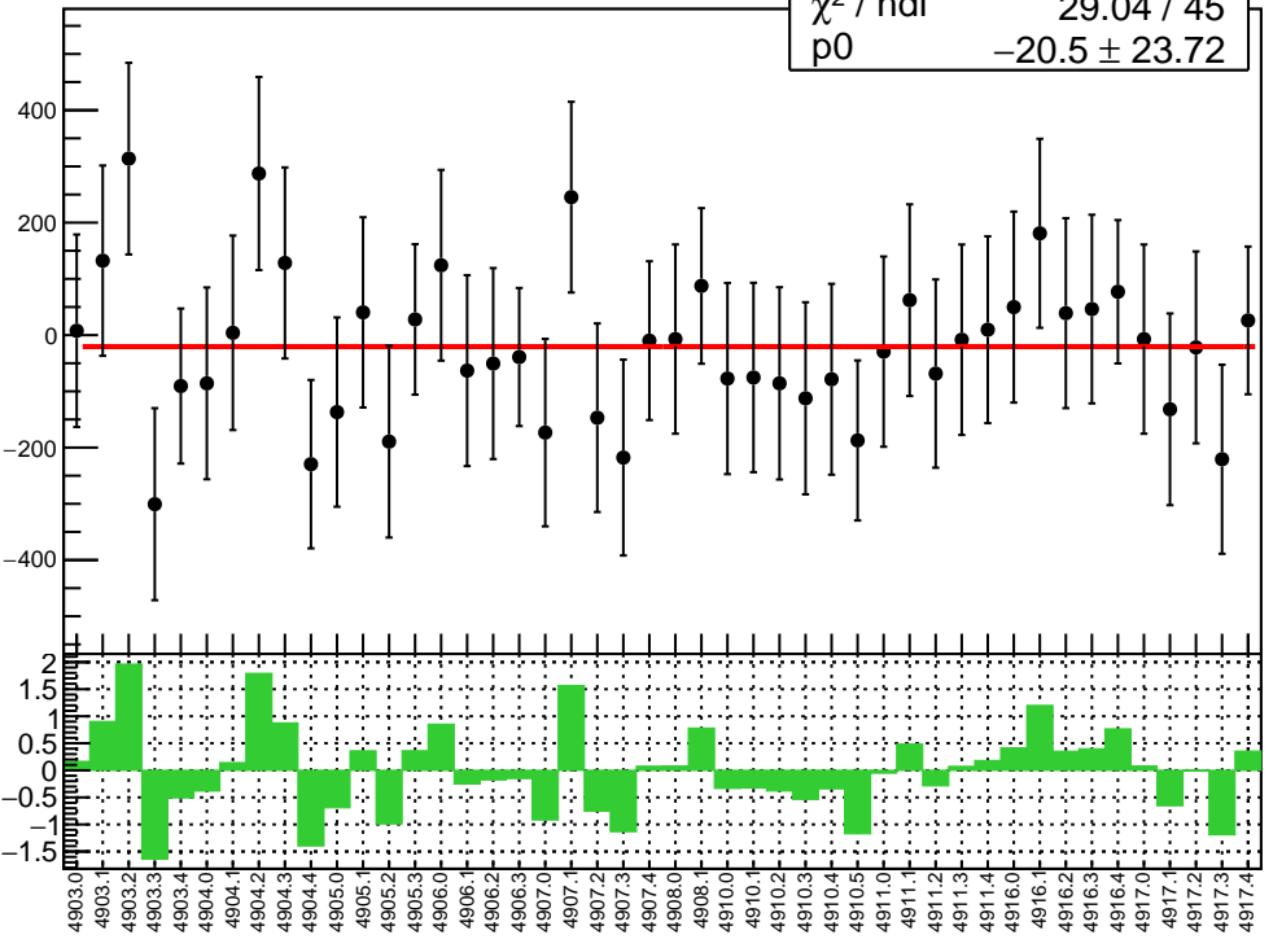
1D pull distribution



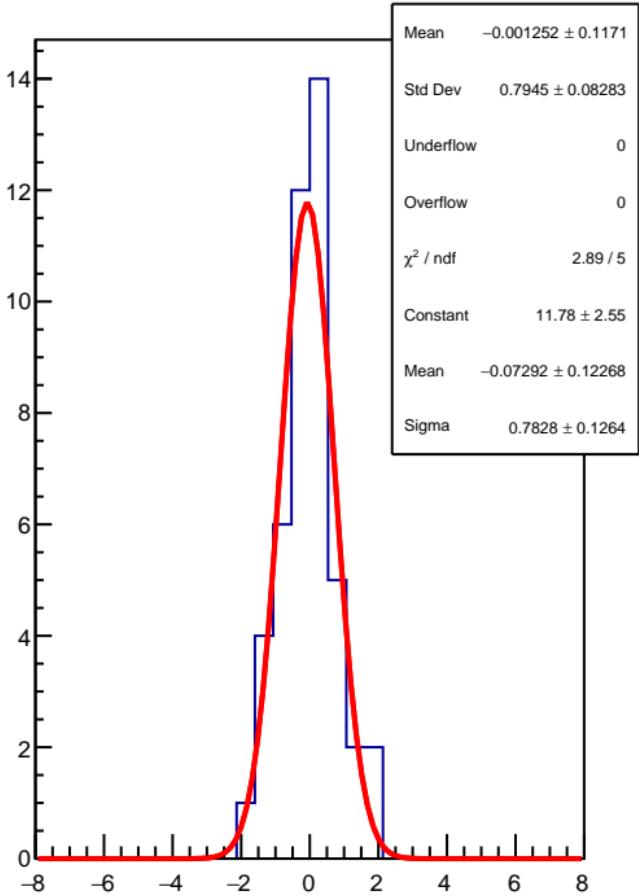
corr_us_avg_bpm1X RMS (ppm)



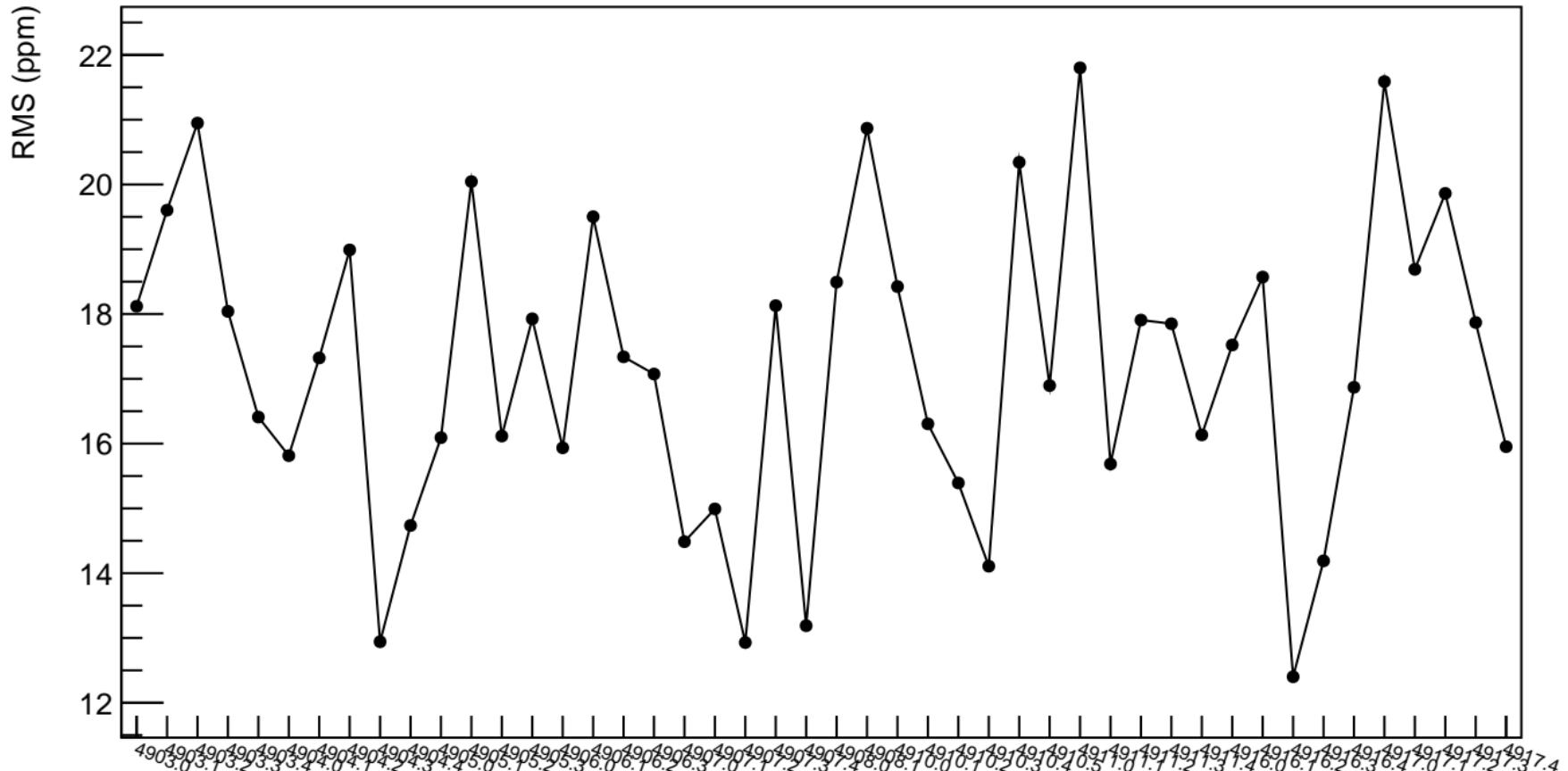
corr_us_avg_bpm1Y (ppb)

 χ^2 / ndf
 29.04 / 45
 p_0
 -20.5 ± 23.72


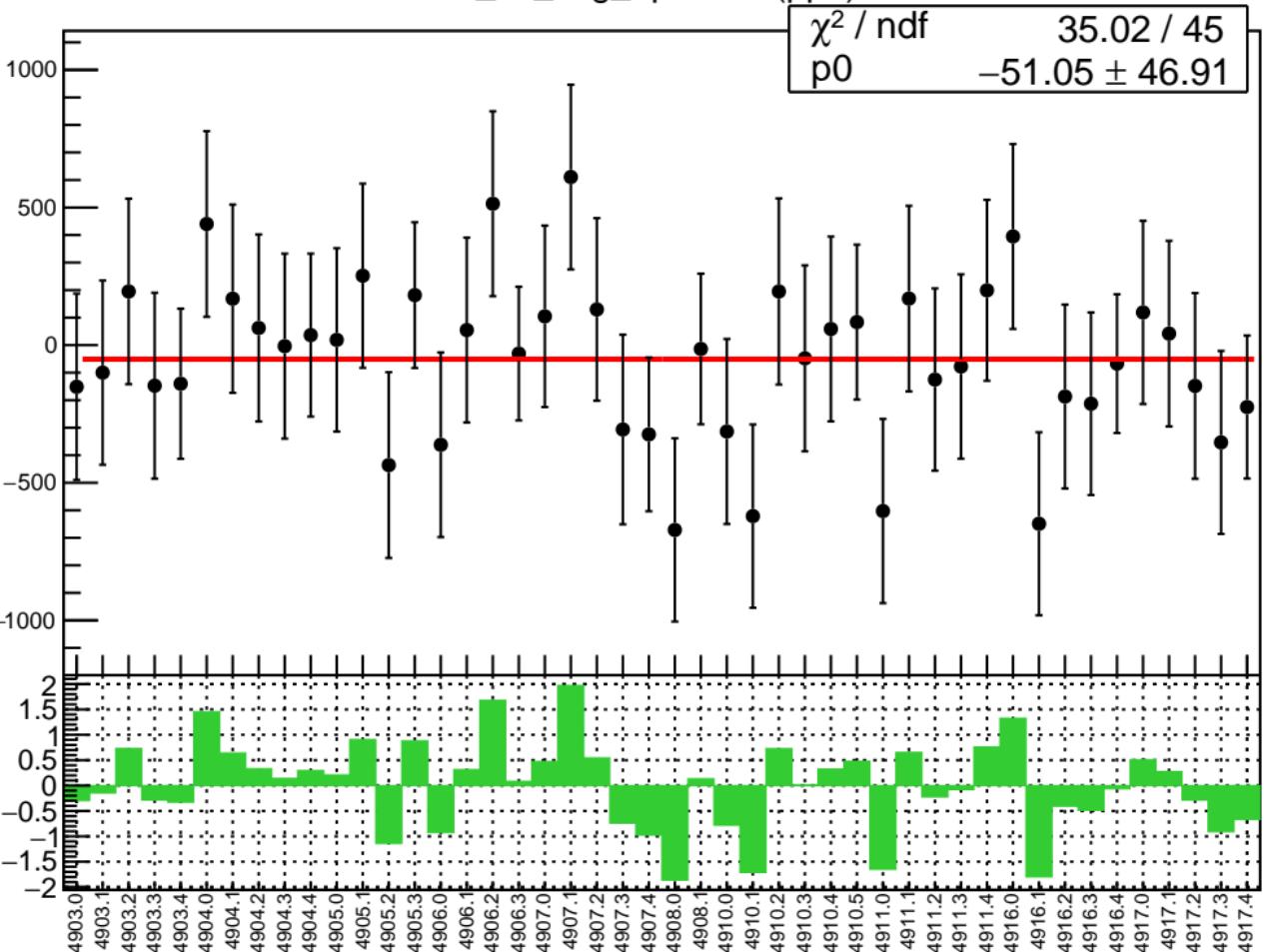
1D pull distribution



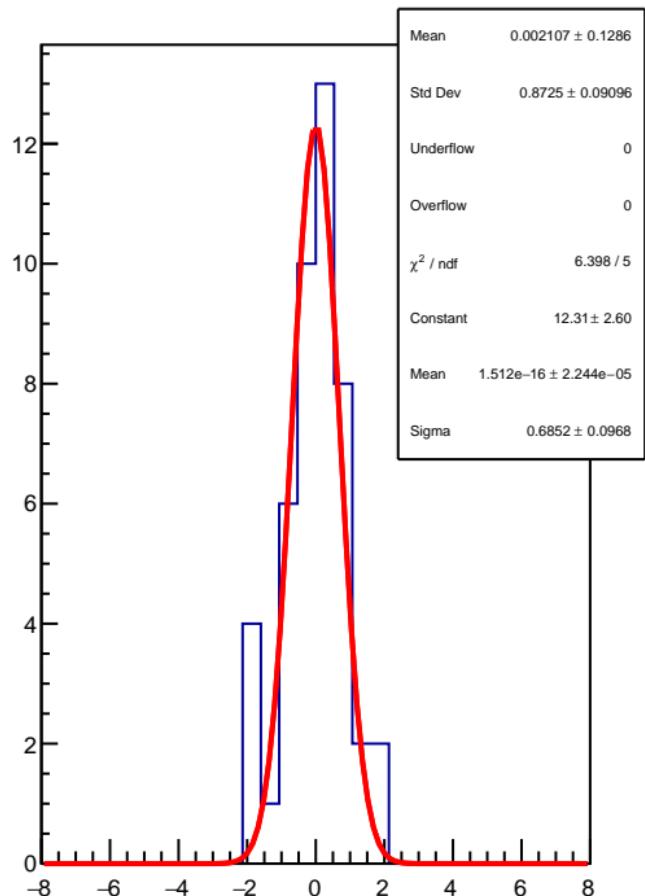
corr_us_avg_bpm1Y RMS (ppm)



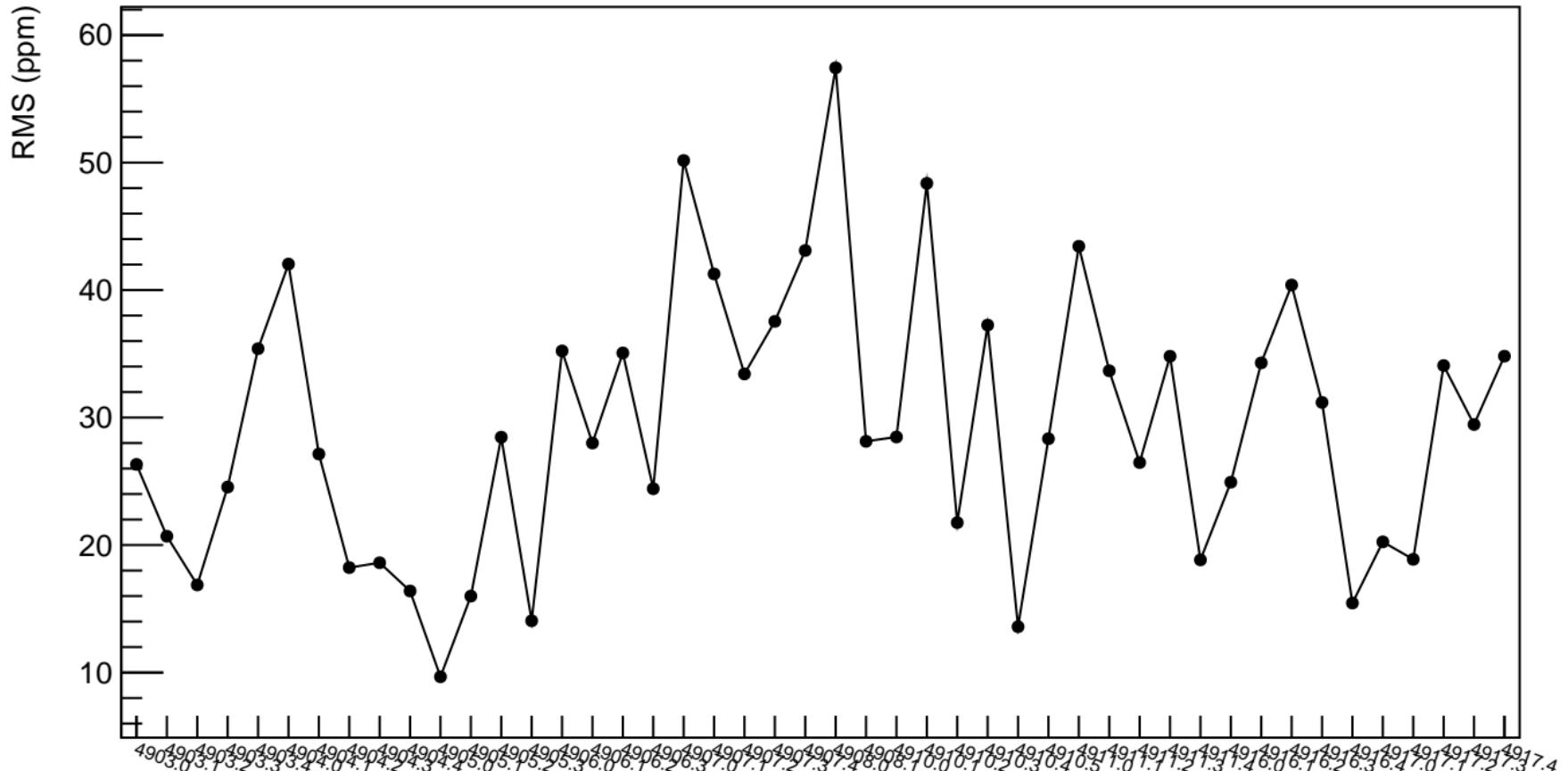
corr_us_avg_bpm16X (ppb)



1D pull distribution

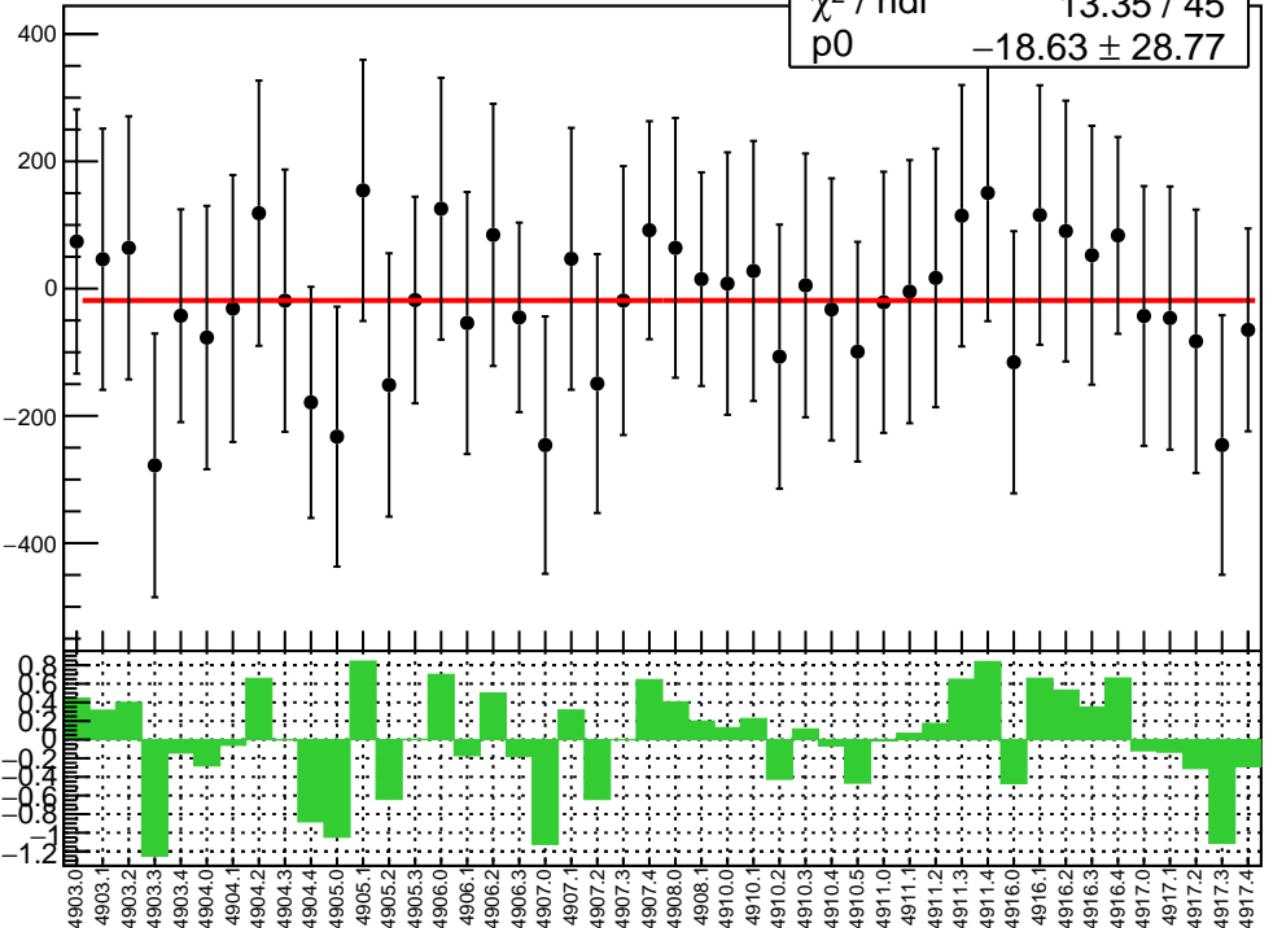


corr_us_avg_bpm16X RMS (ppm)

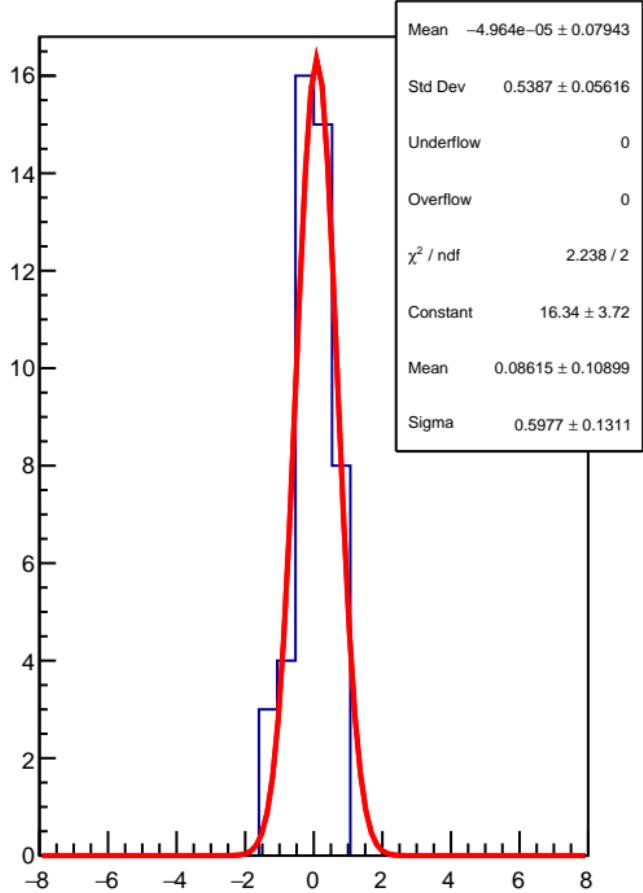


corr_us_avg_bpm16Y (ppb)

χ^2 / ndf 13.35 / 45
p0 -18.63 ± 28.77

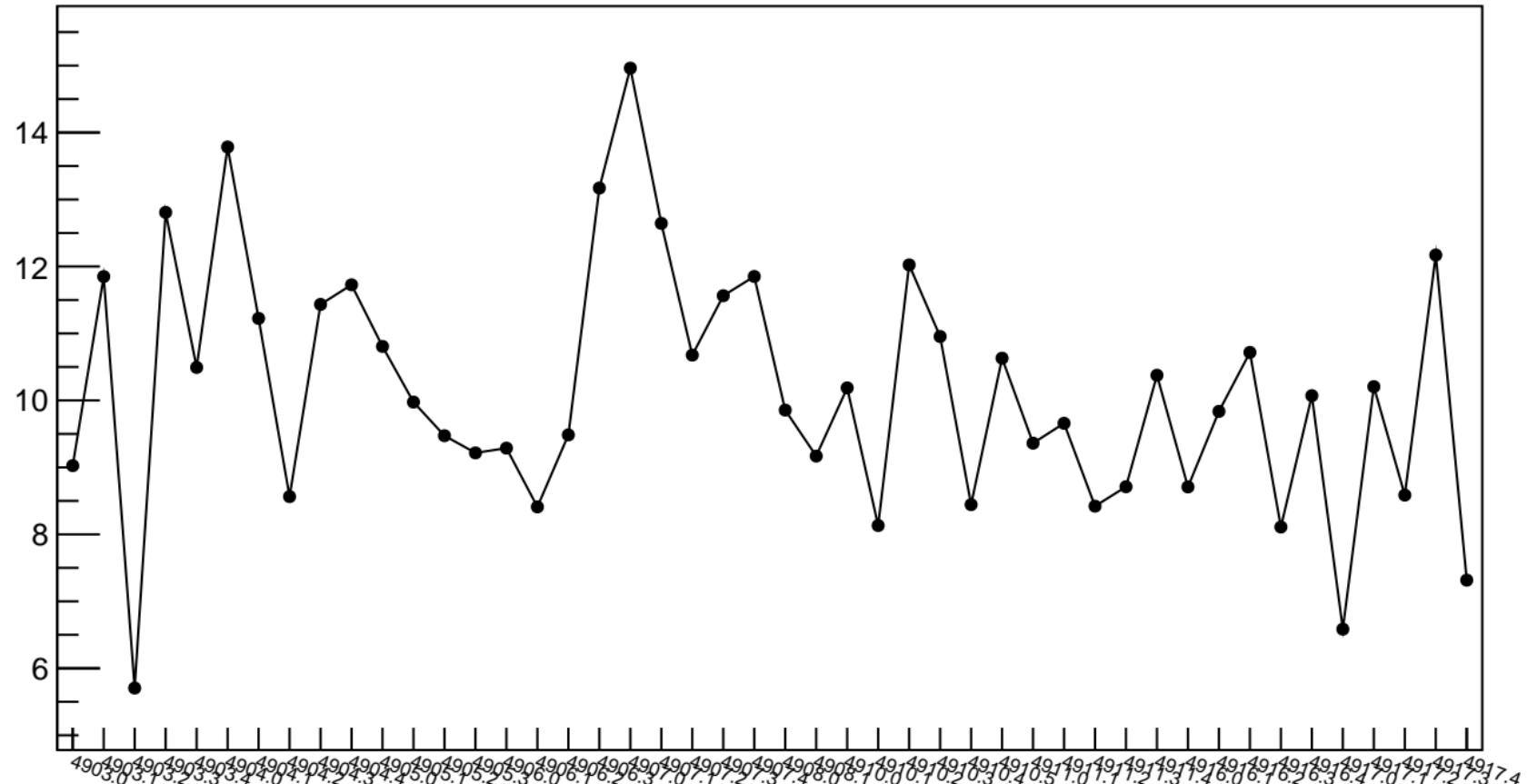


1D pull distribution



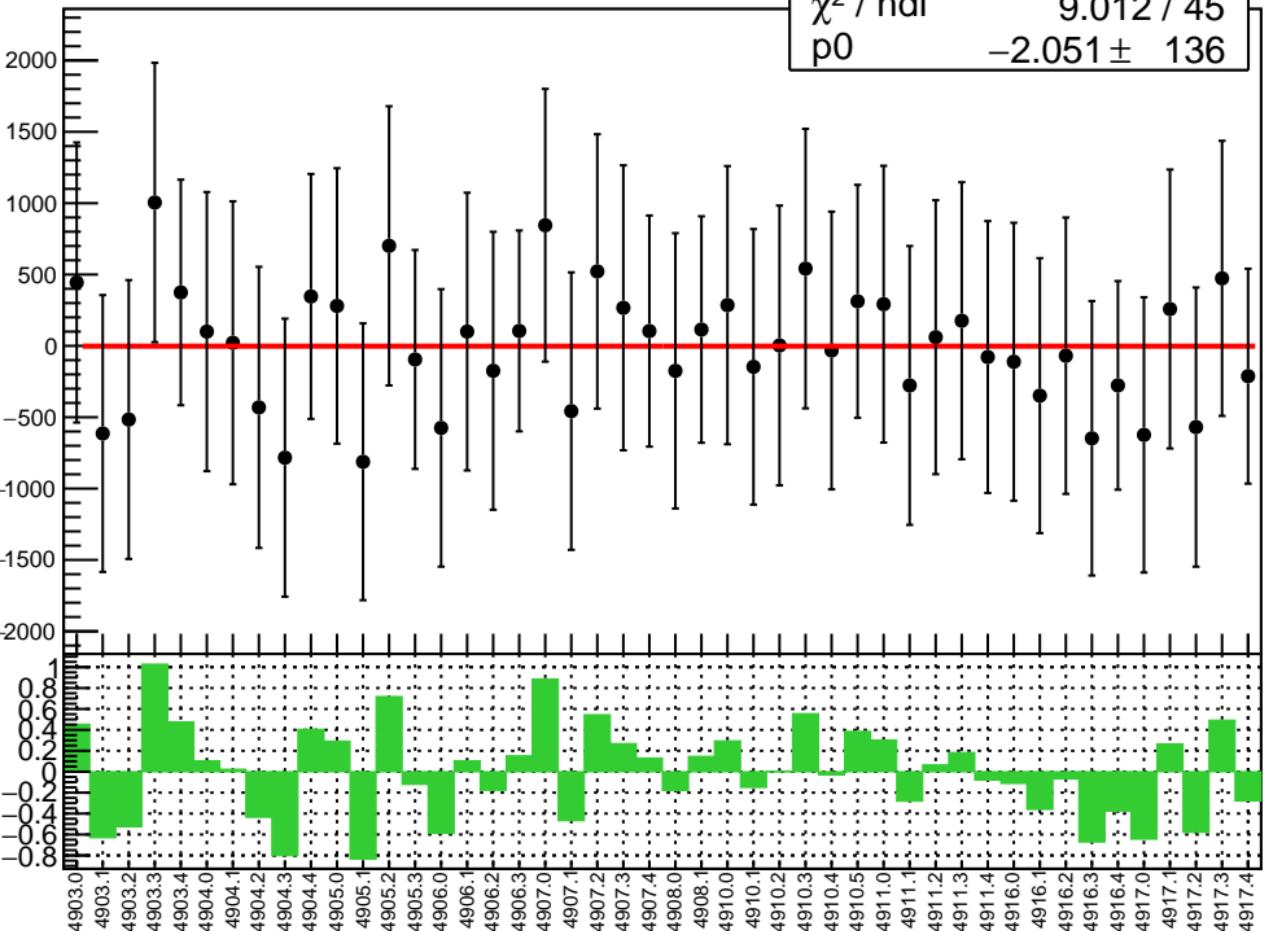
corr_us_avg_bpm16Y RMS (ppm)

RMS (ppm)

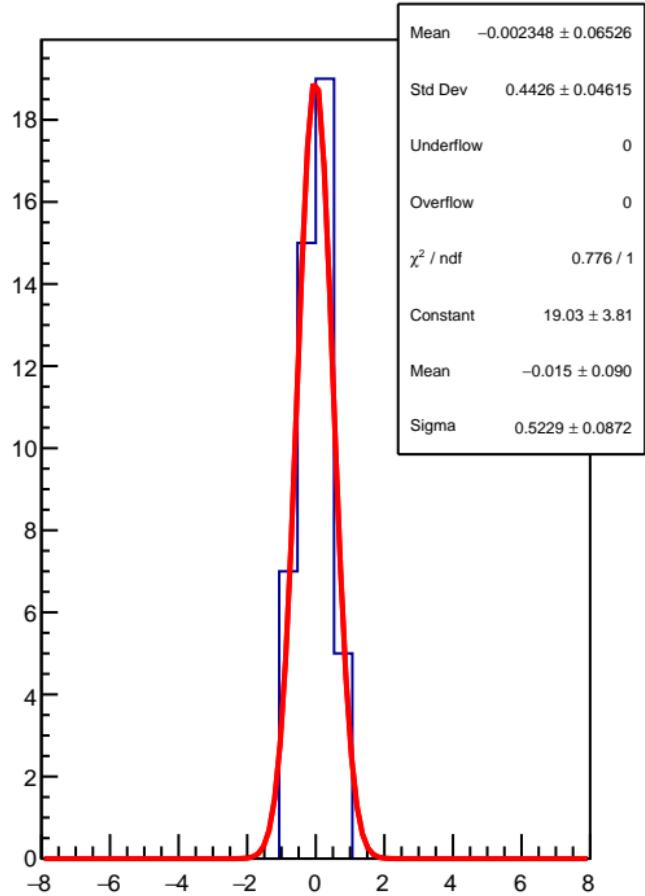


corr_us_avg_bpm12X (ppb)

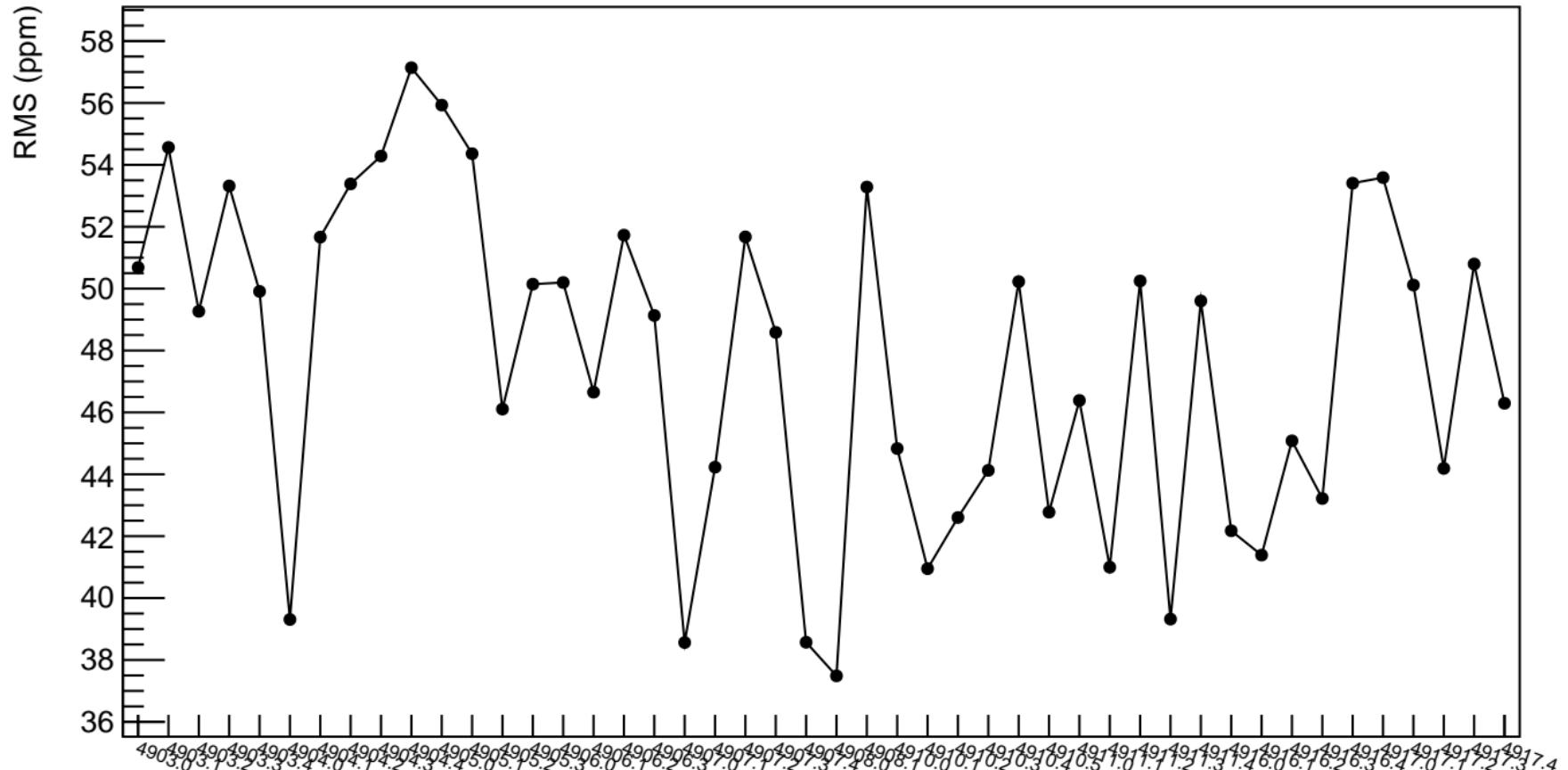
χ^2 / ndf 9.012 / 45
p0 -2.051 ± 136



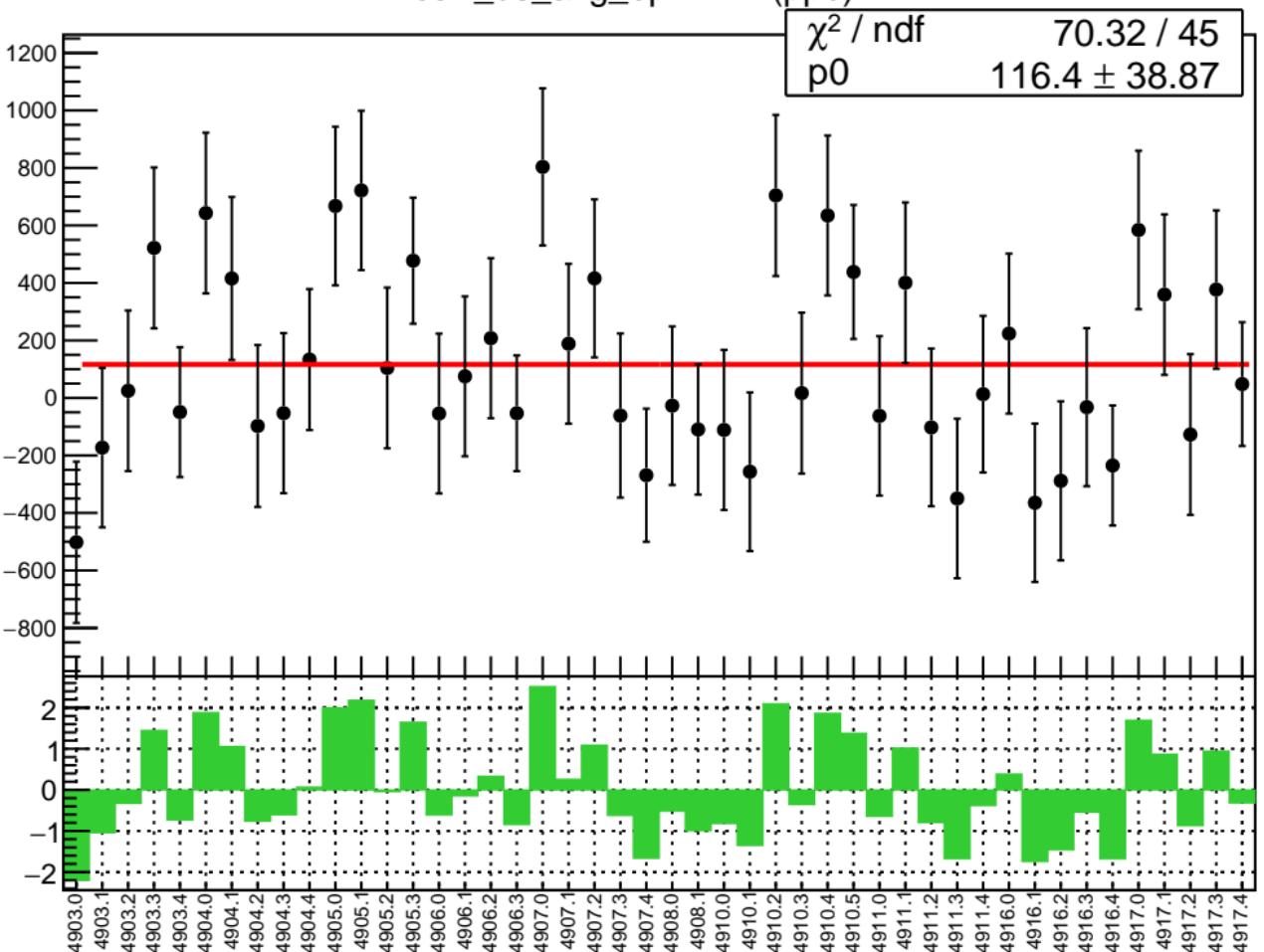
1D pull distribution



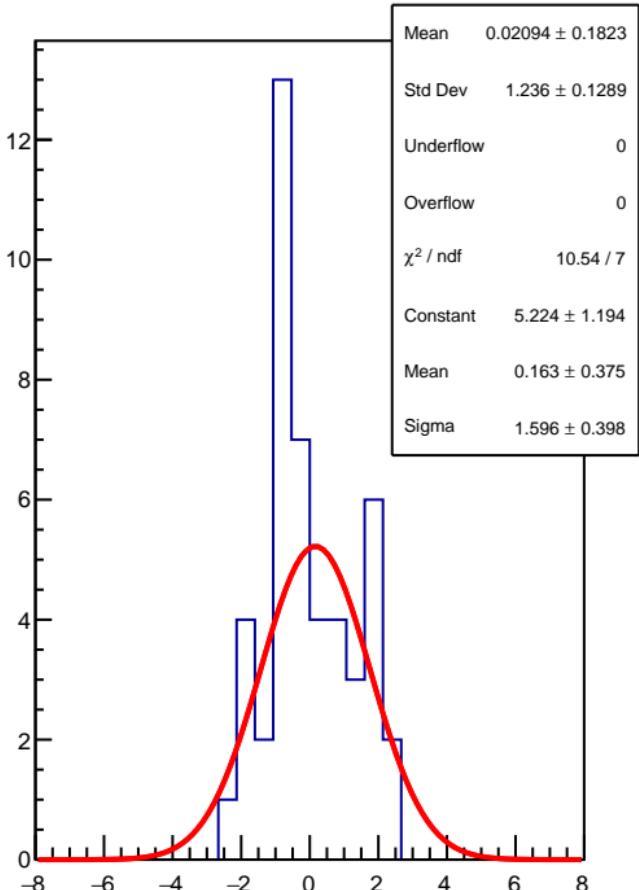
corr_us_avg_bpm12X RMS (ppm)



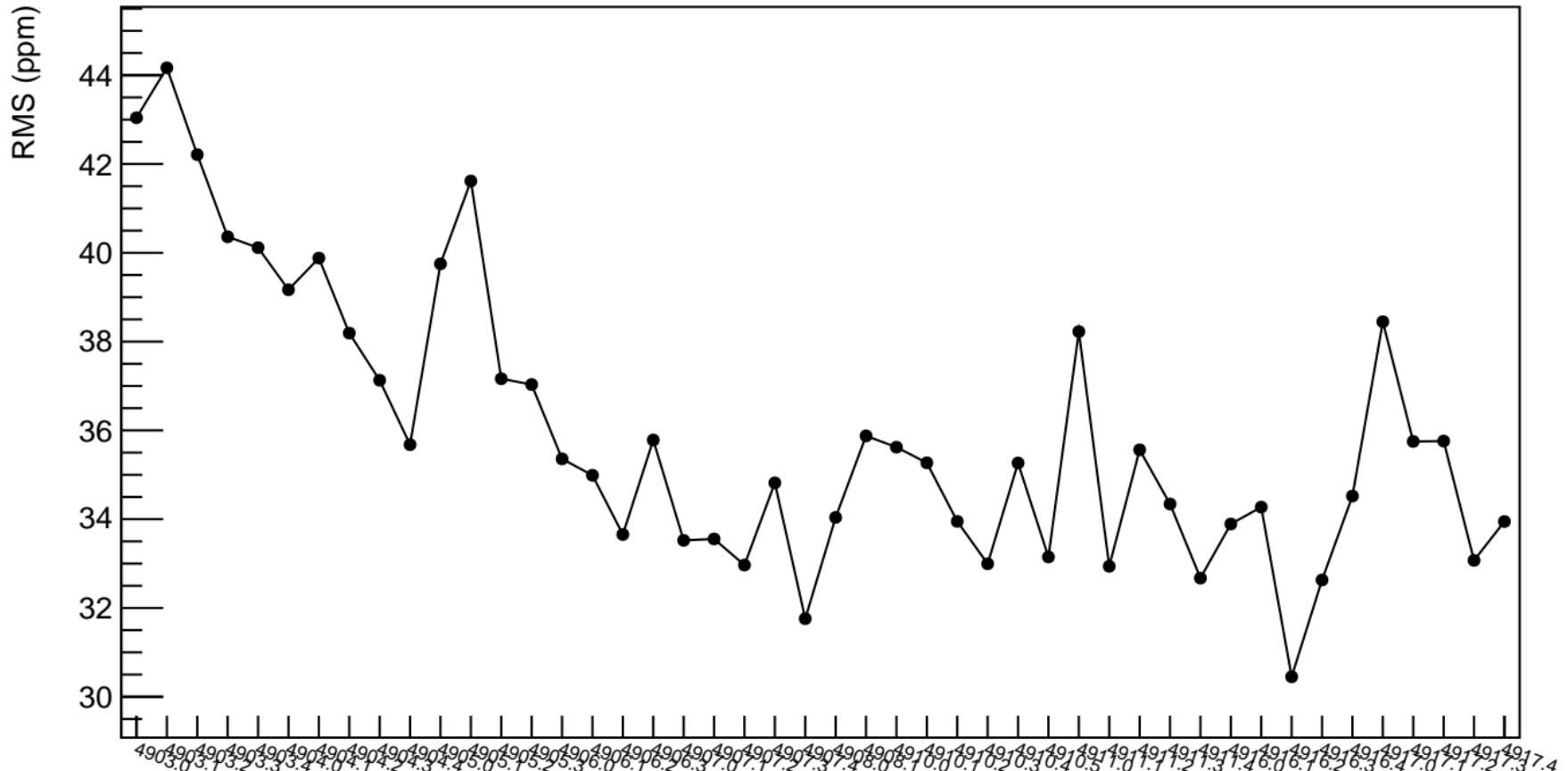
corr_us_avg_bpm12Y (ppb)



1D pull distribution

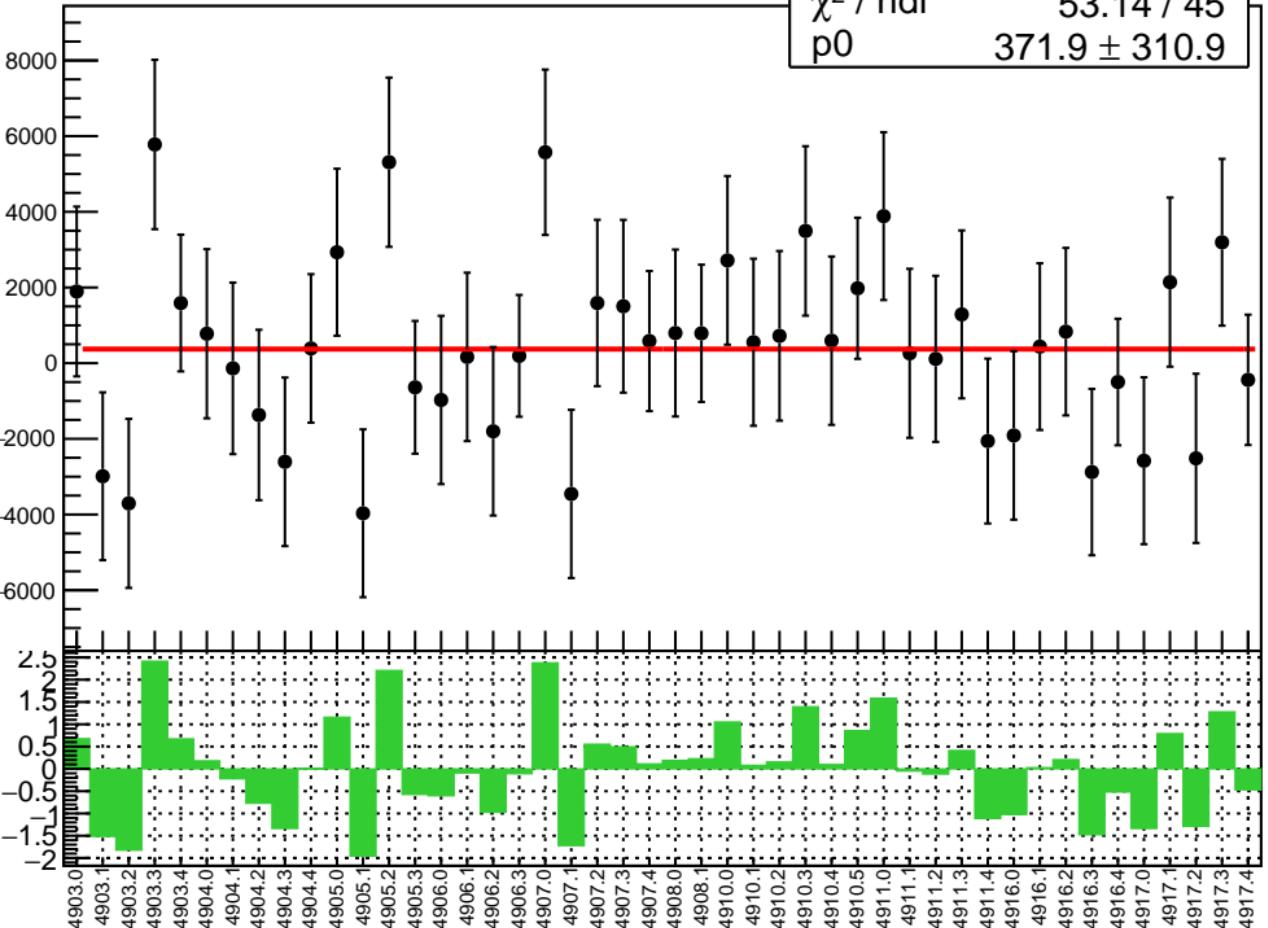


corr_us_avg_bpm12Y RMS (ppm)

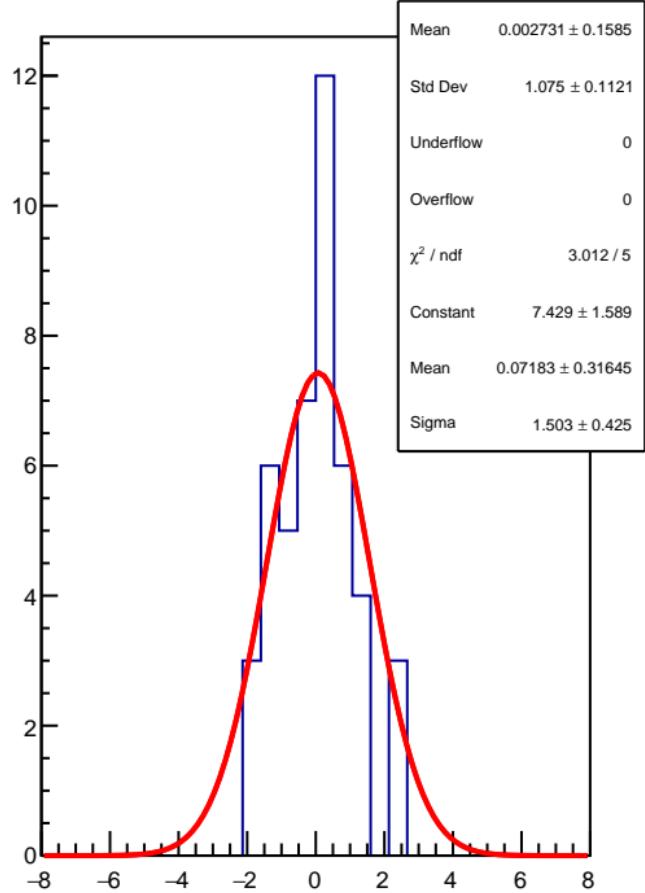


corr_us_avg_bpm11X (ppb)

χ^2 / ndf 53.14 / 45
p0 371.9 ± 310.9

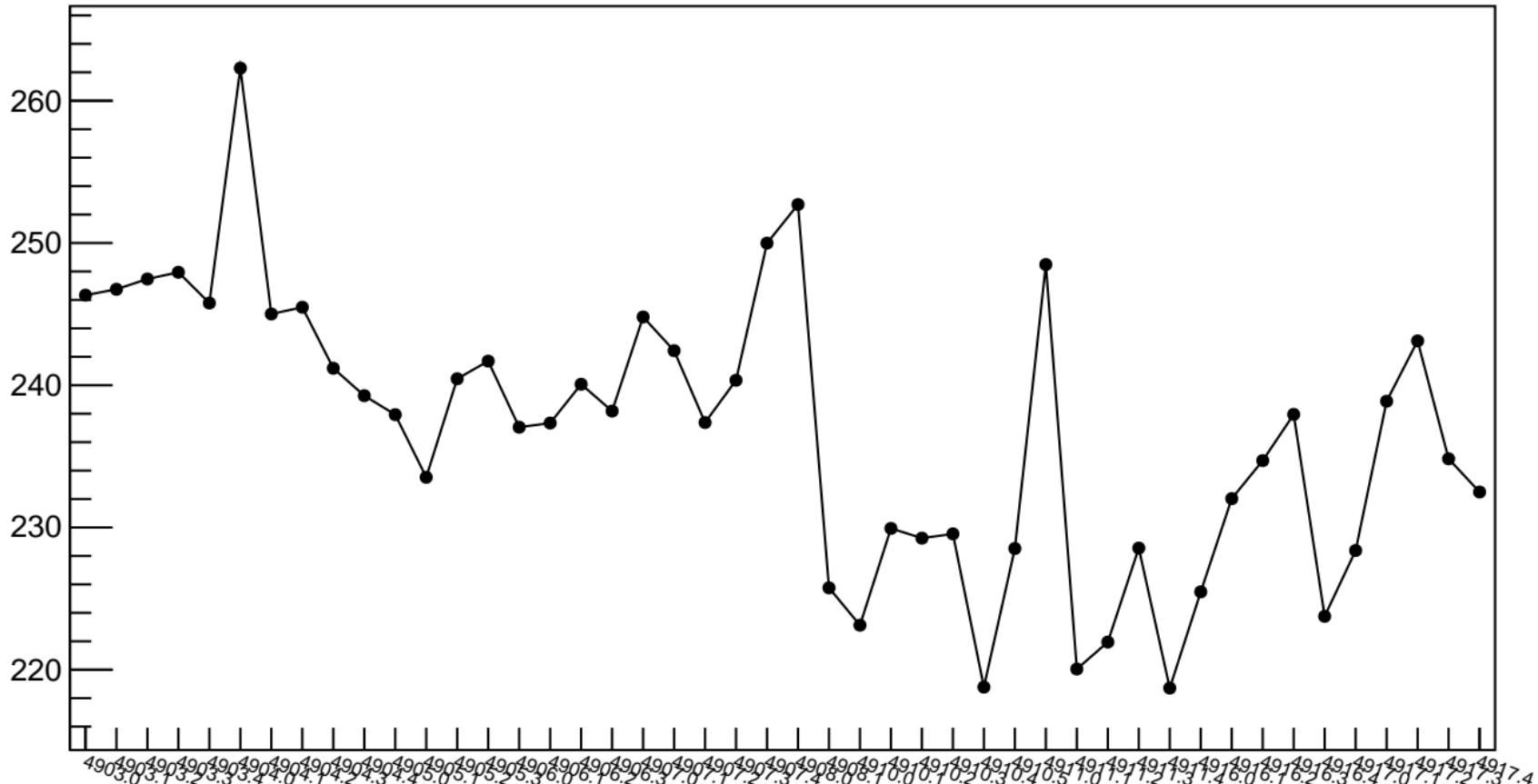


1D pull distribution

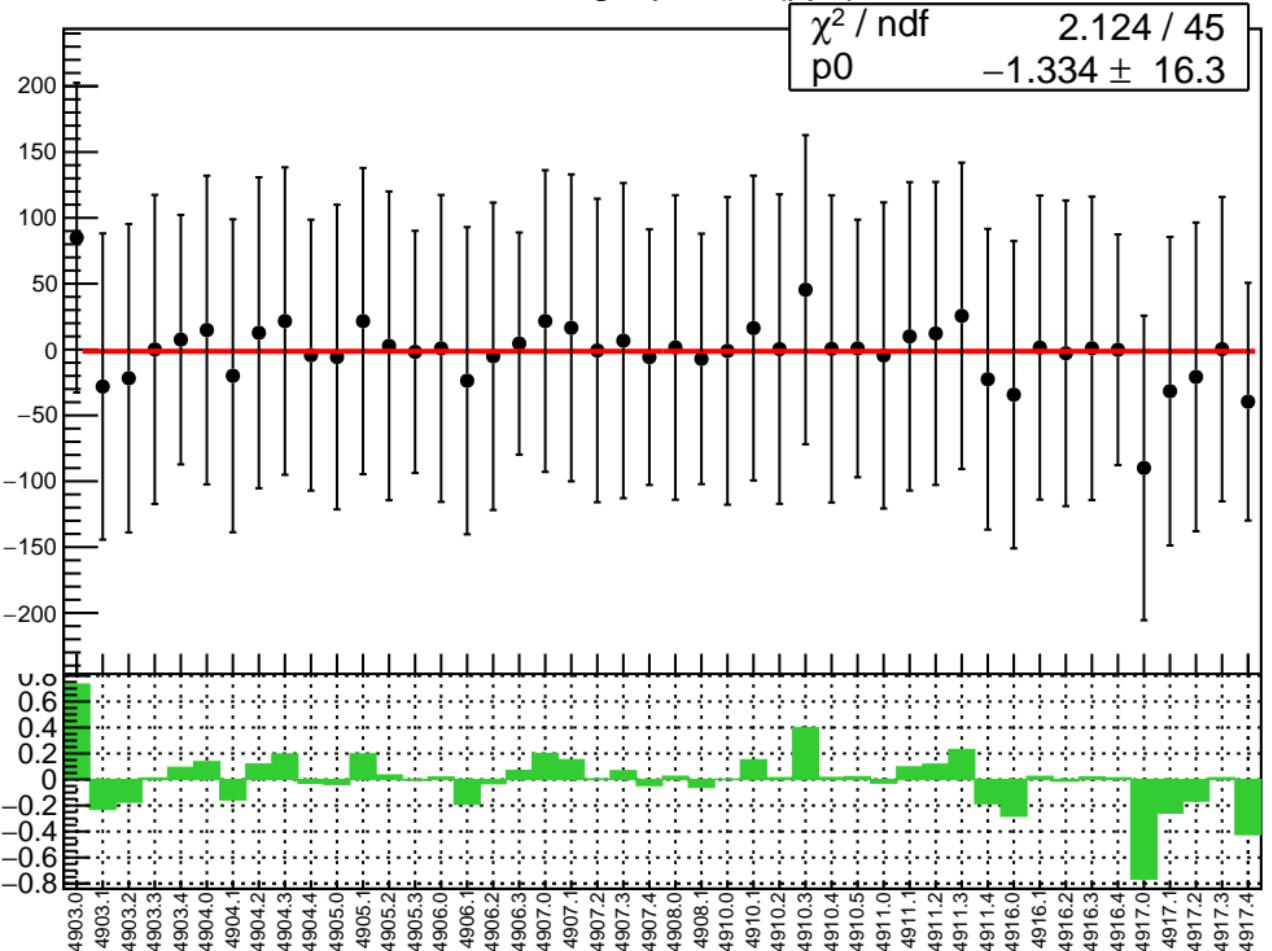


corr_us_avg_bpm11X RMS (ppm)

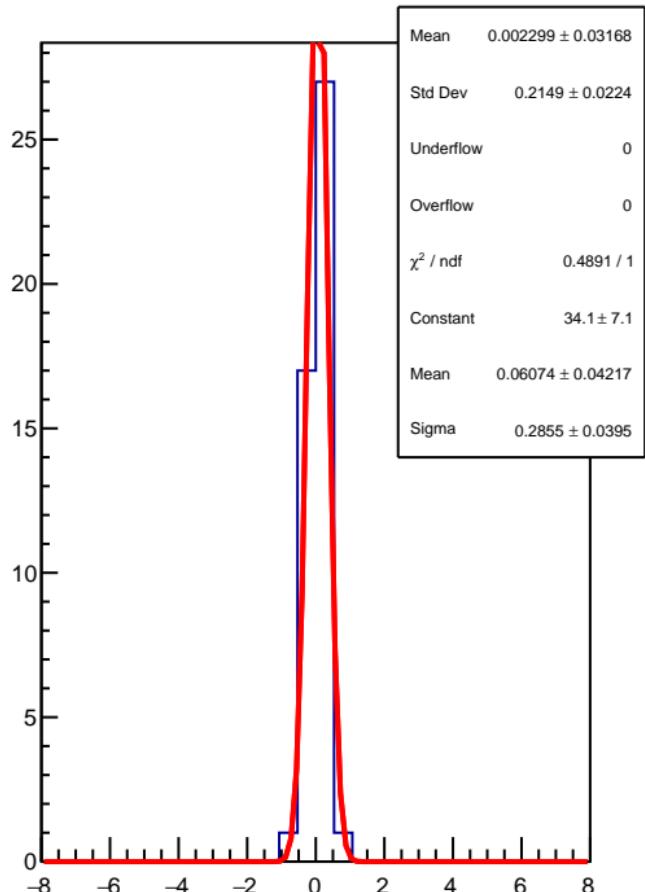
RMS (ppm)



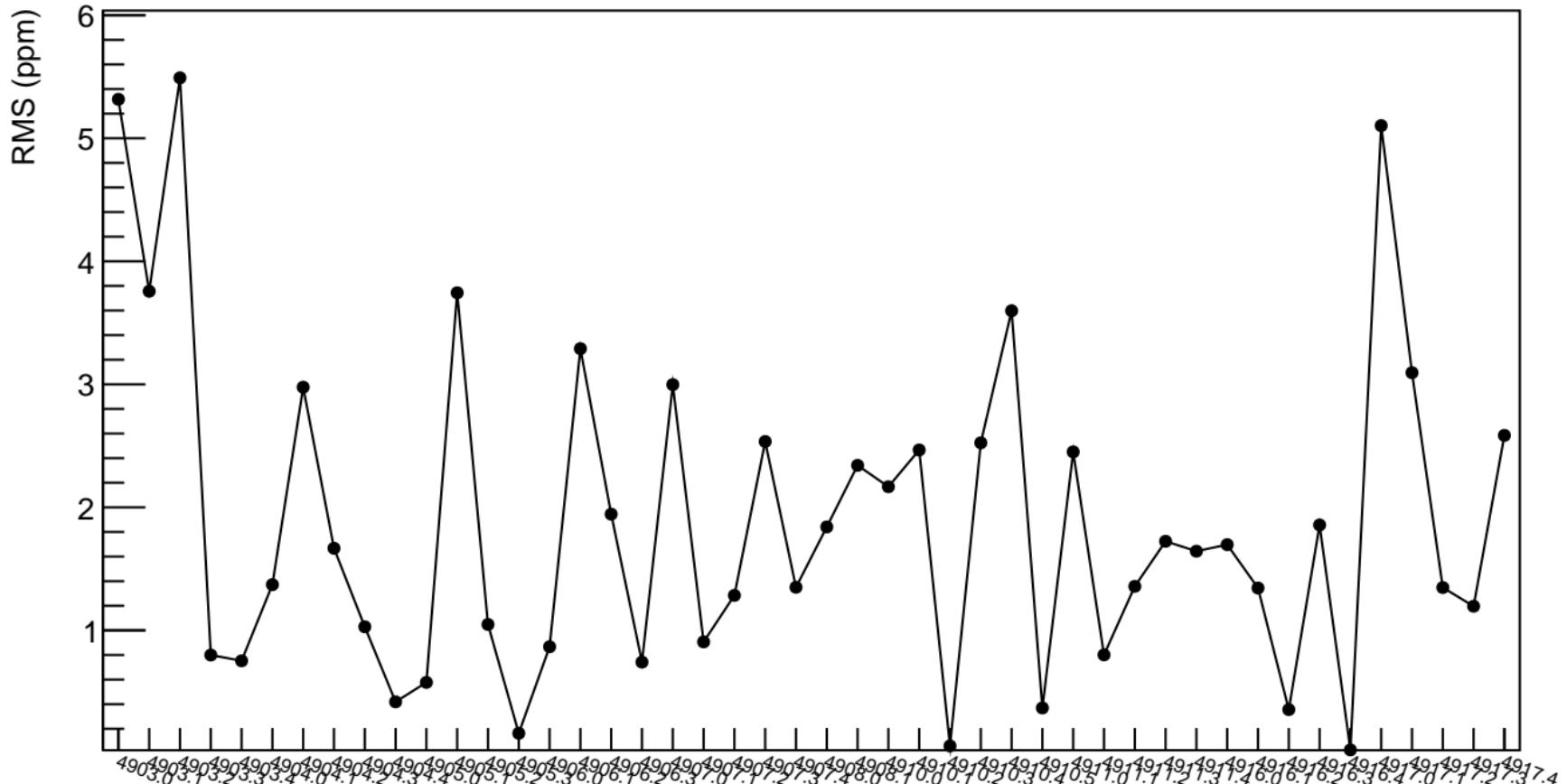
corr_us_avg_bpm11Y (ppb)



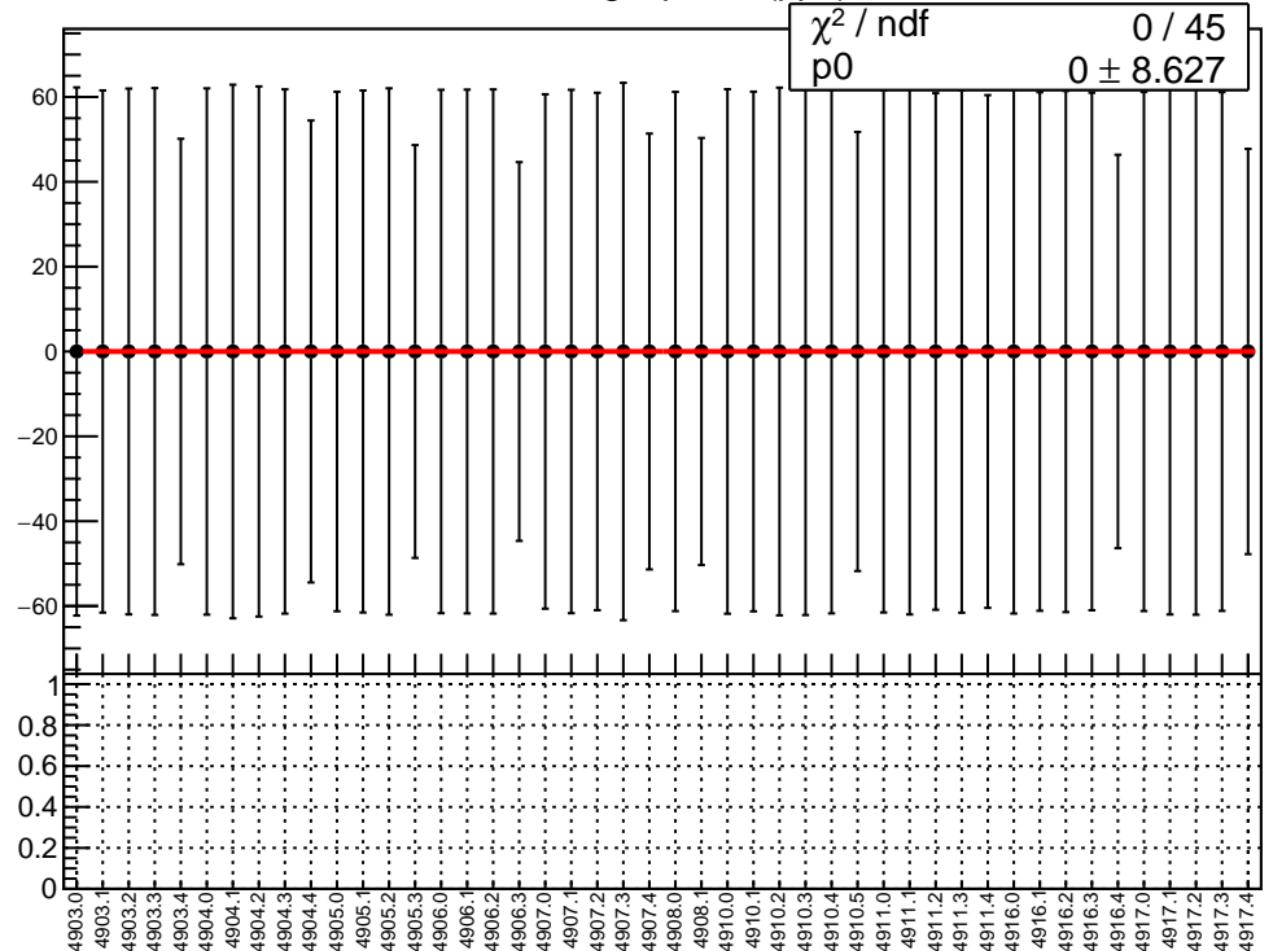
1D pull distribution



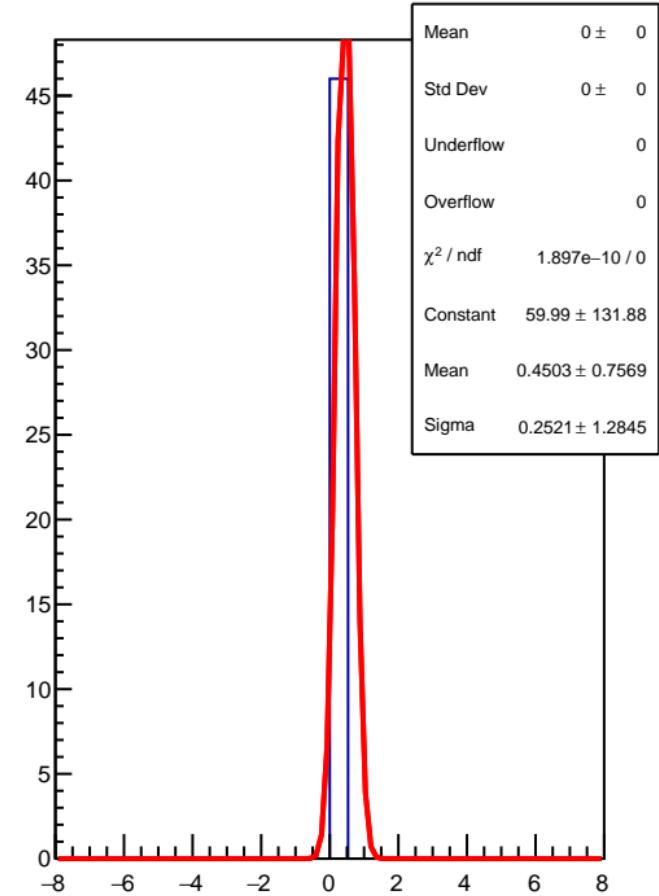
corr_us_avg_bpm11Y RMS (ppm)



corr_us_avg_bpm8X (ppb)

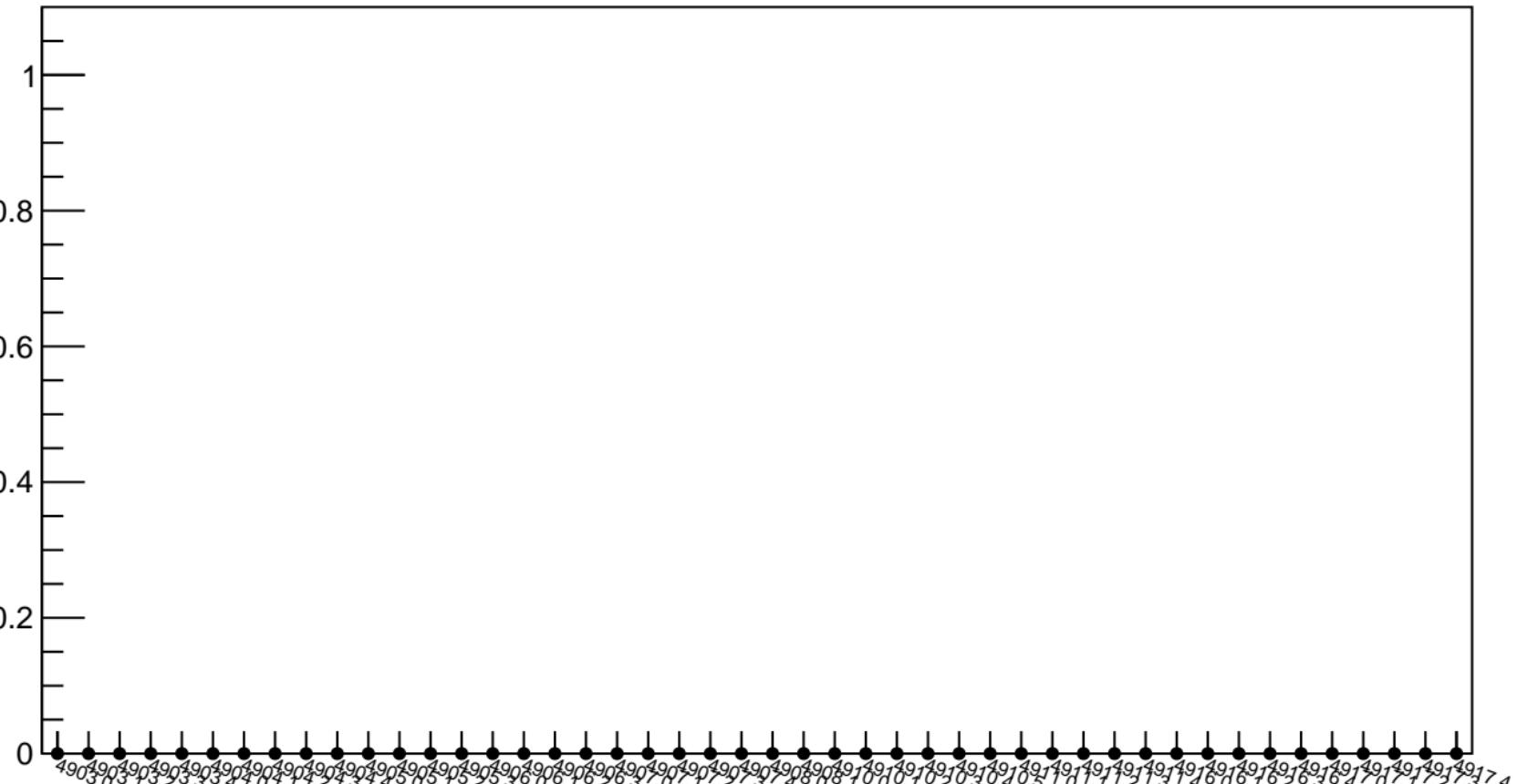


1D pull distribution

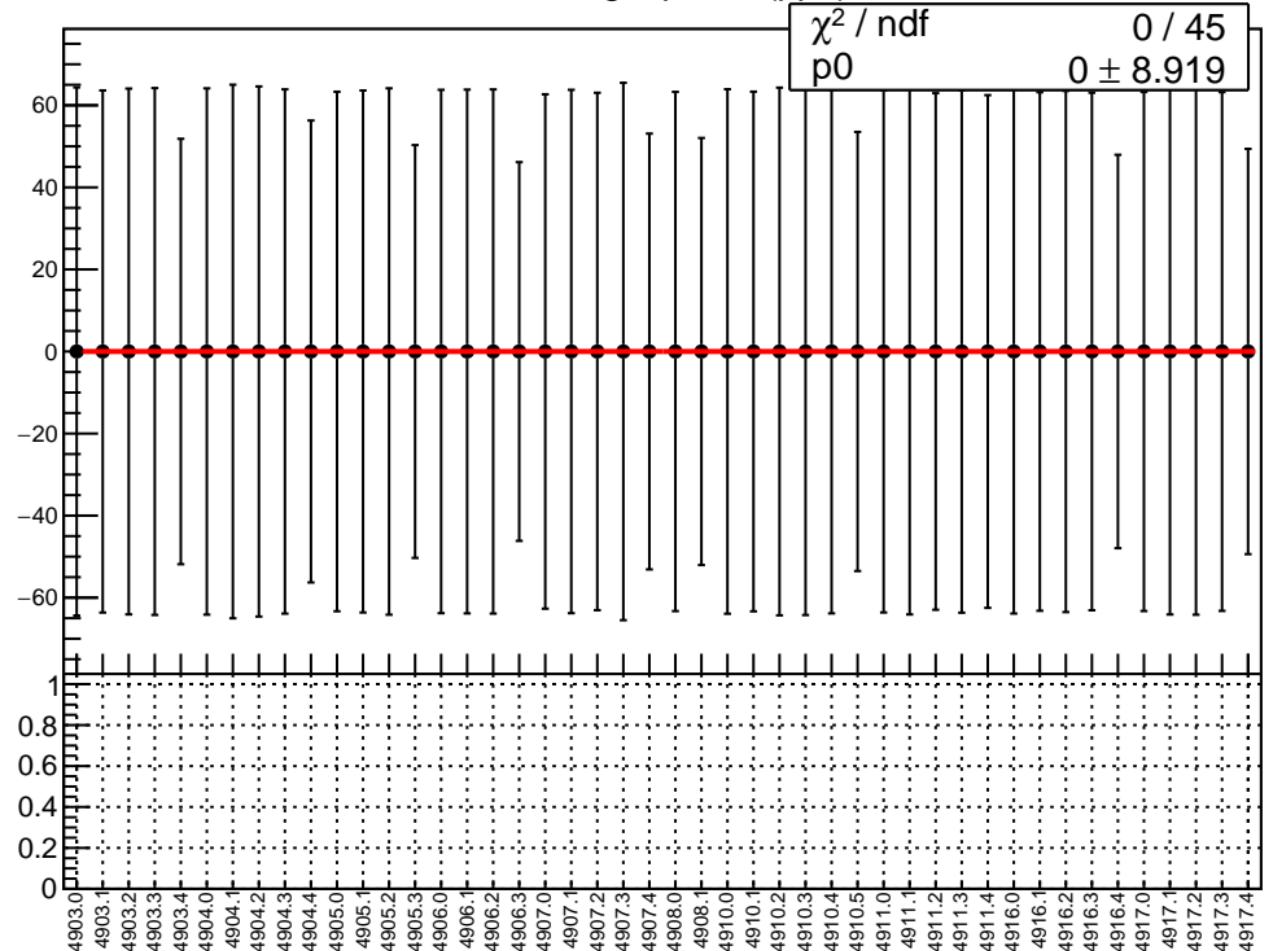


corr_us_avg_bpm8X RMS (ppm)

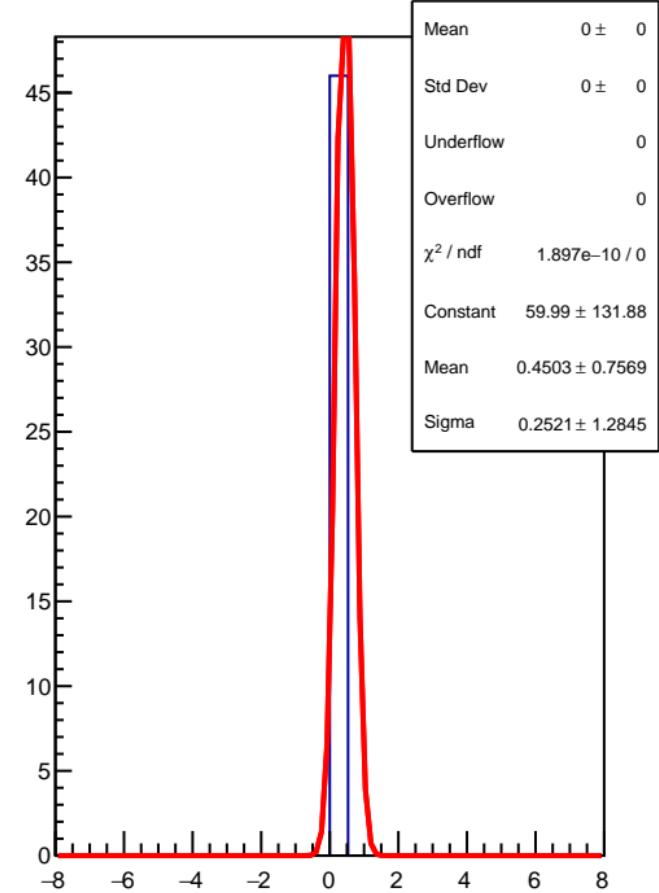
RMS (ppm)



corr_us_avg_bpm8Y (ppb)

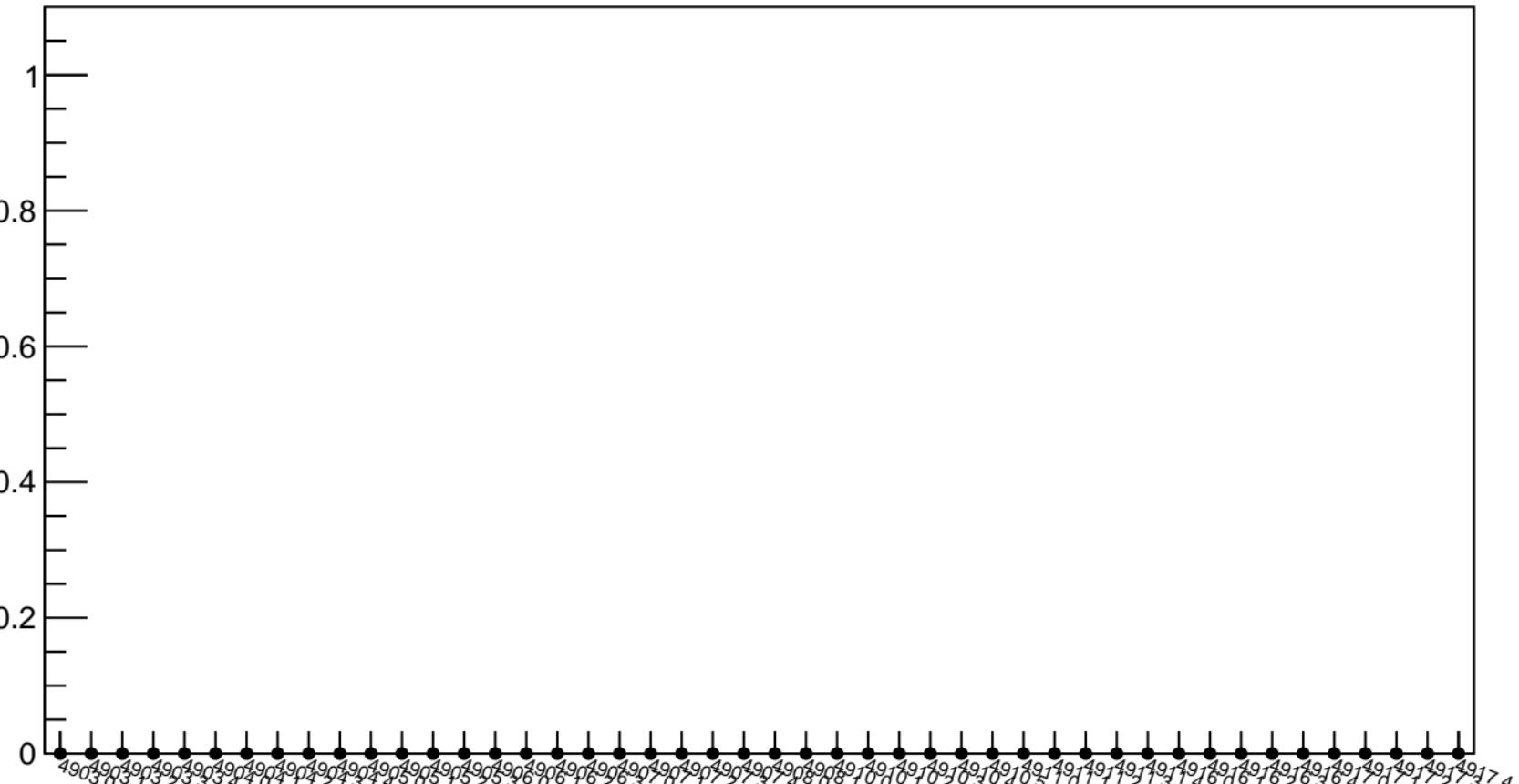


1D pull distribution



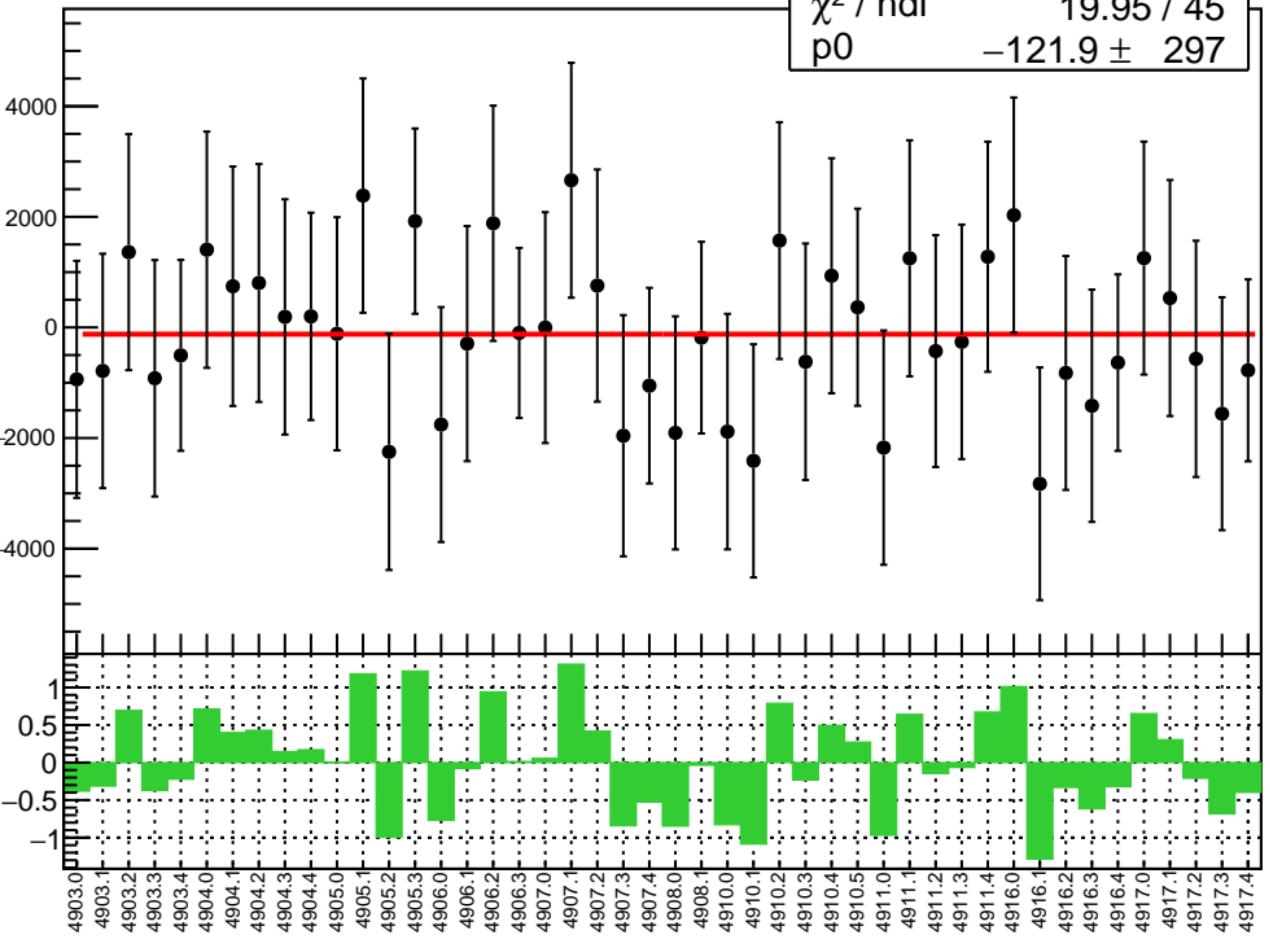
corr_us_avg_bpm8Y RMS (ppm)

RMS (ppm)

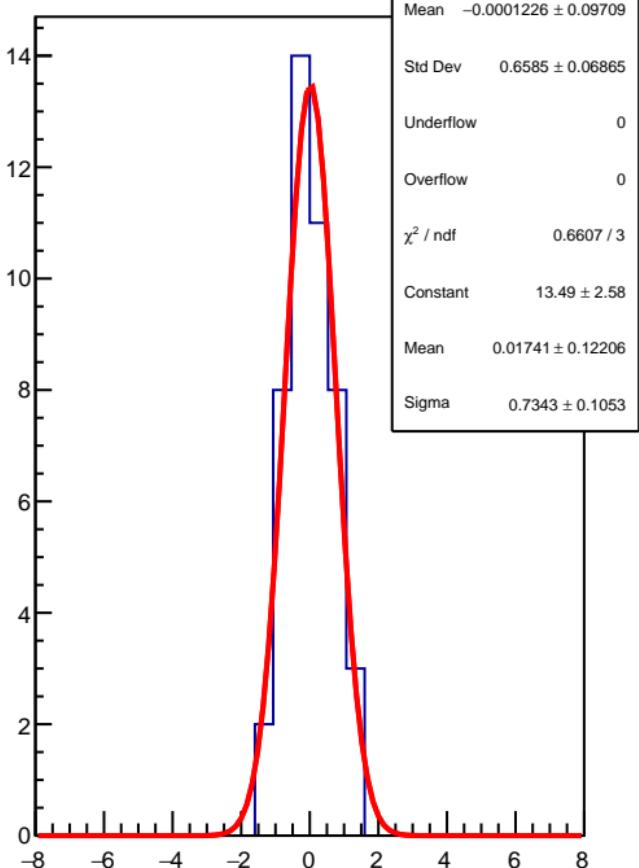


corr_us_dd_bpm4eX (ppb)

χ^2 / ndf 19.95 / 45
p0 -121.9 ± 297

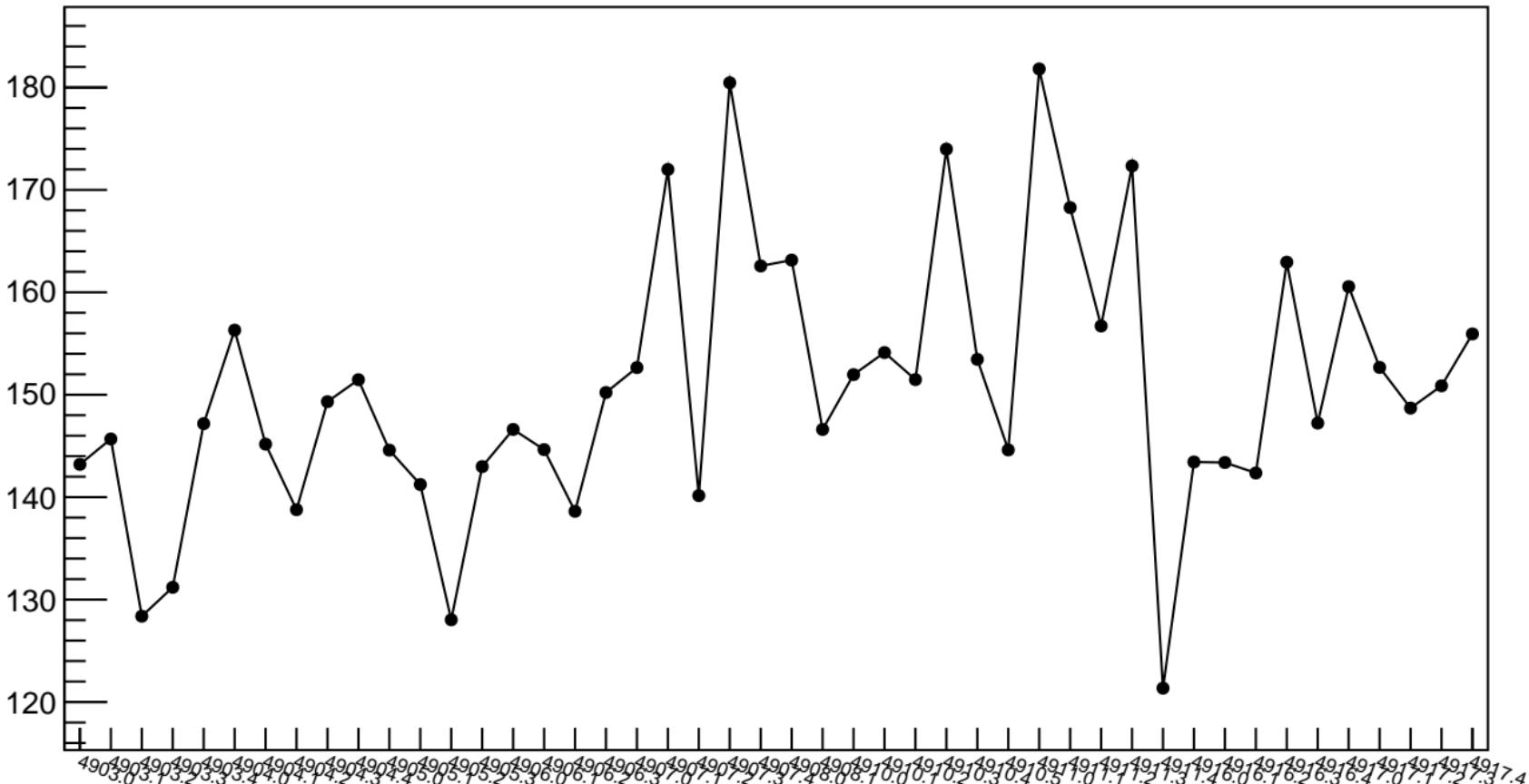


1D pull distribution



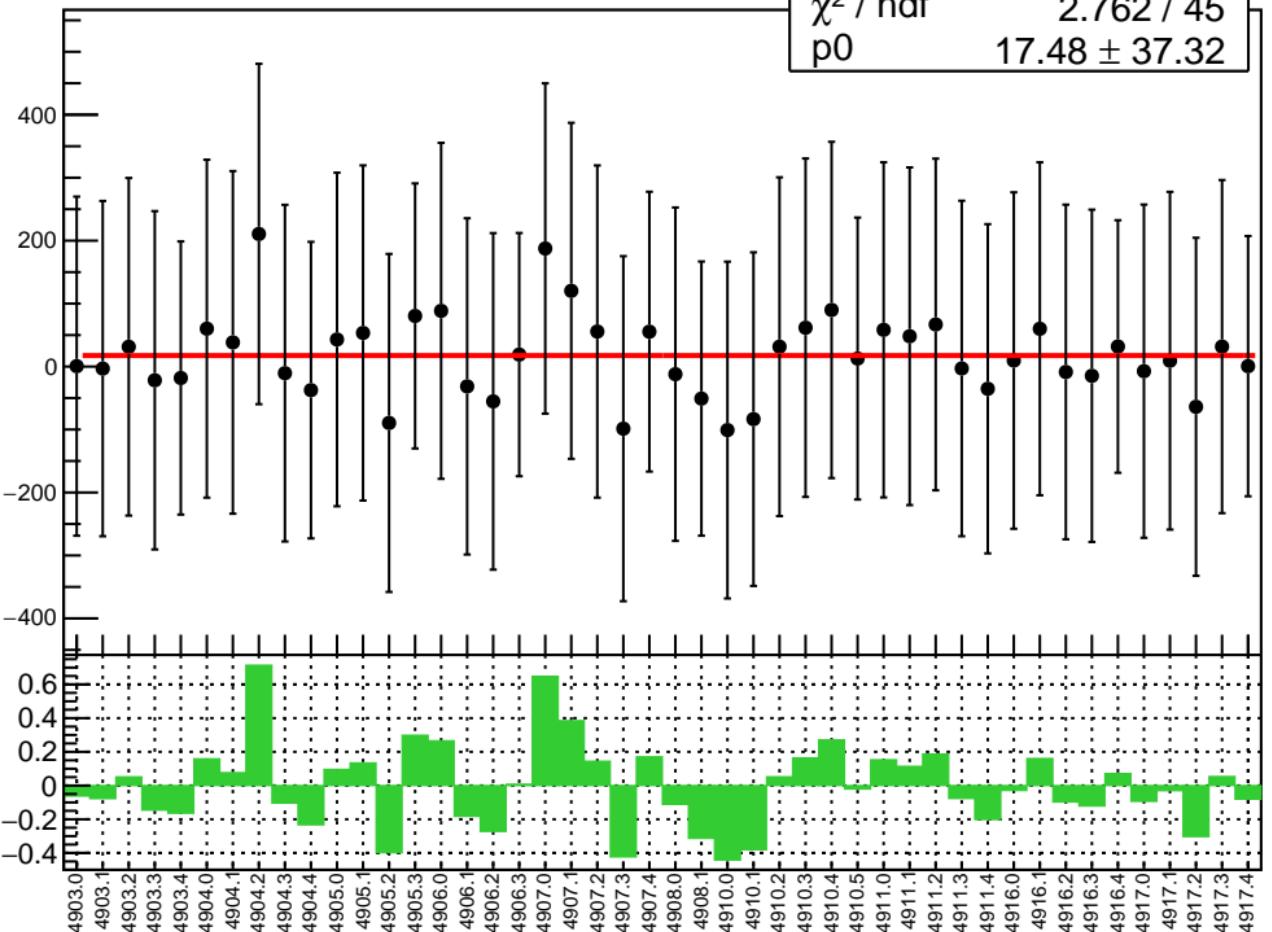
corr_us_dd_bpm4eX RMS (ppm)

RMS (ppm)

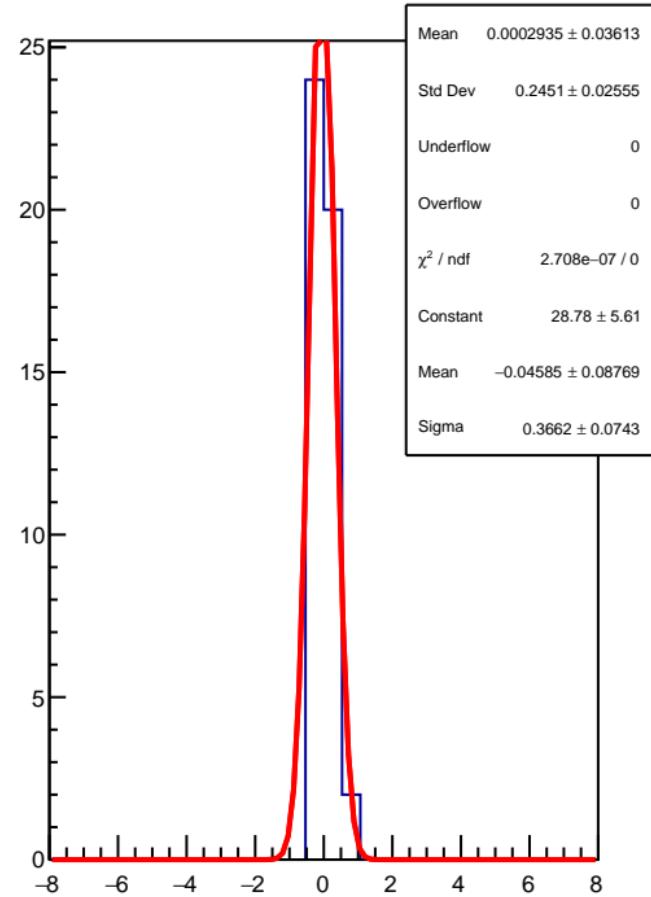


corr_us_dd_bpm4eY (ppb)

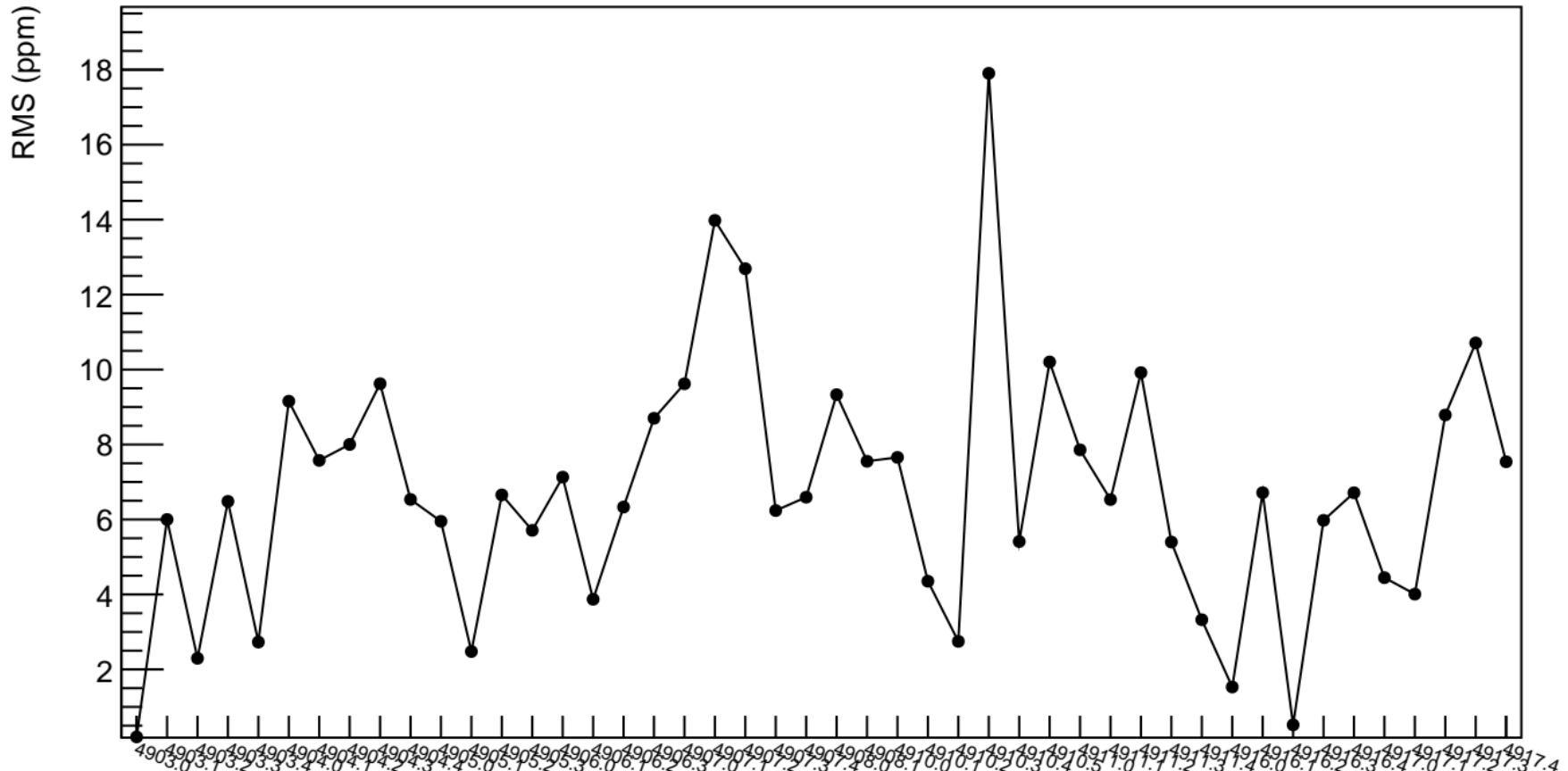
χ^2 / ndf 2.762 / 45
 p_0 17.48 ± 37.32



1D pull distribution

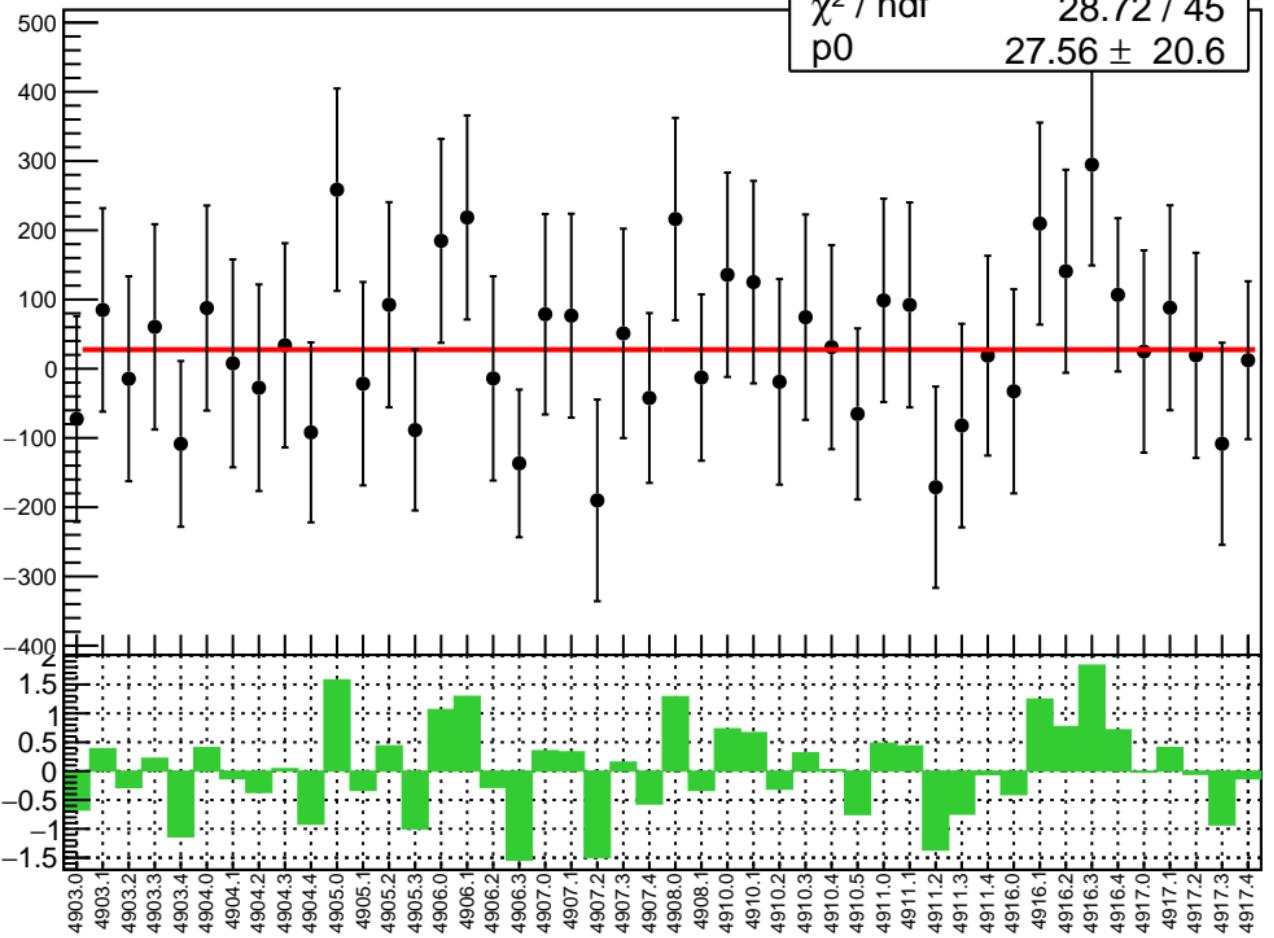


corr_us_dd_bpm4eY RMS (ppm)

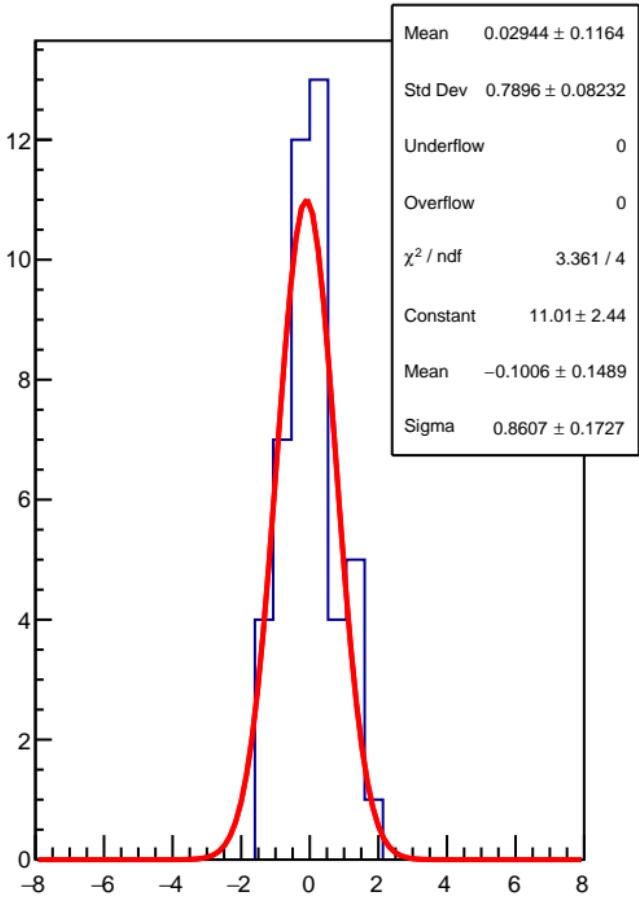


corr_us_dd_bpm4aX (ppb)

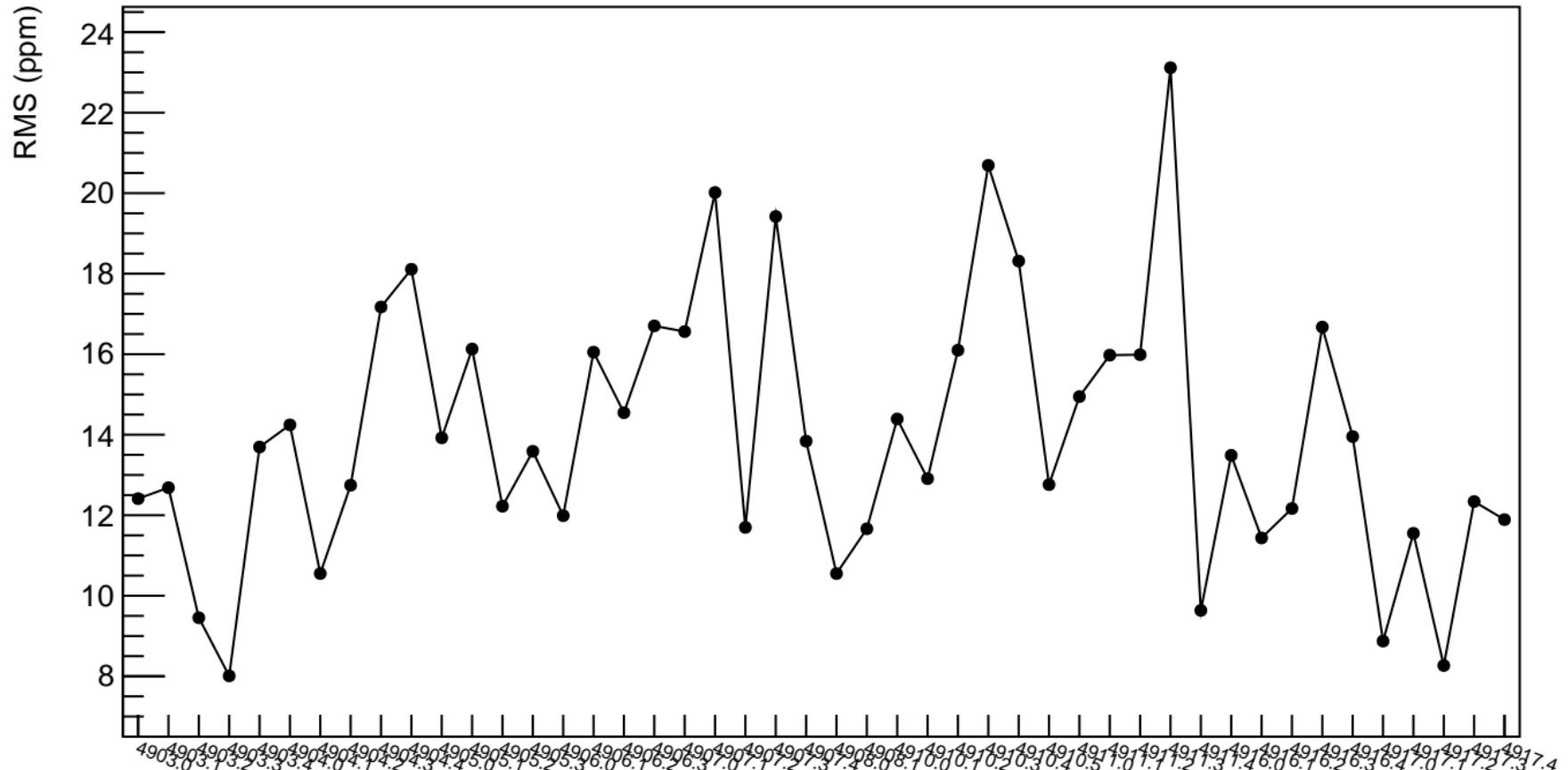
χ^2 / ndf 28.72 / 45
p0 27.56 ± 20.6



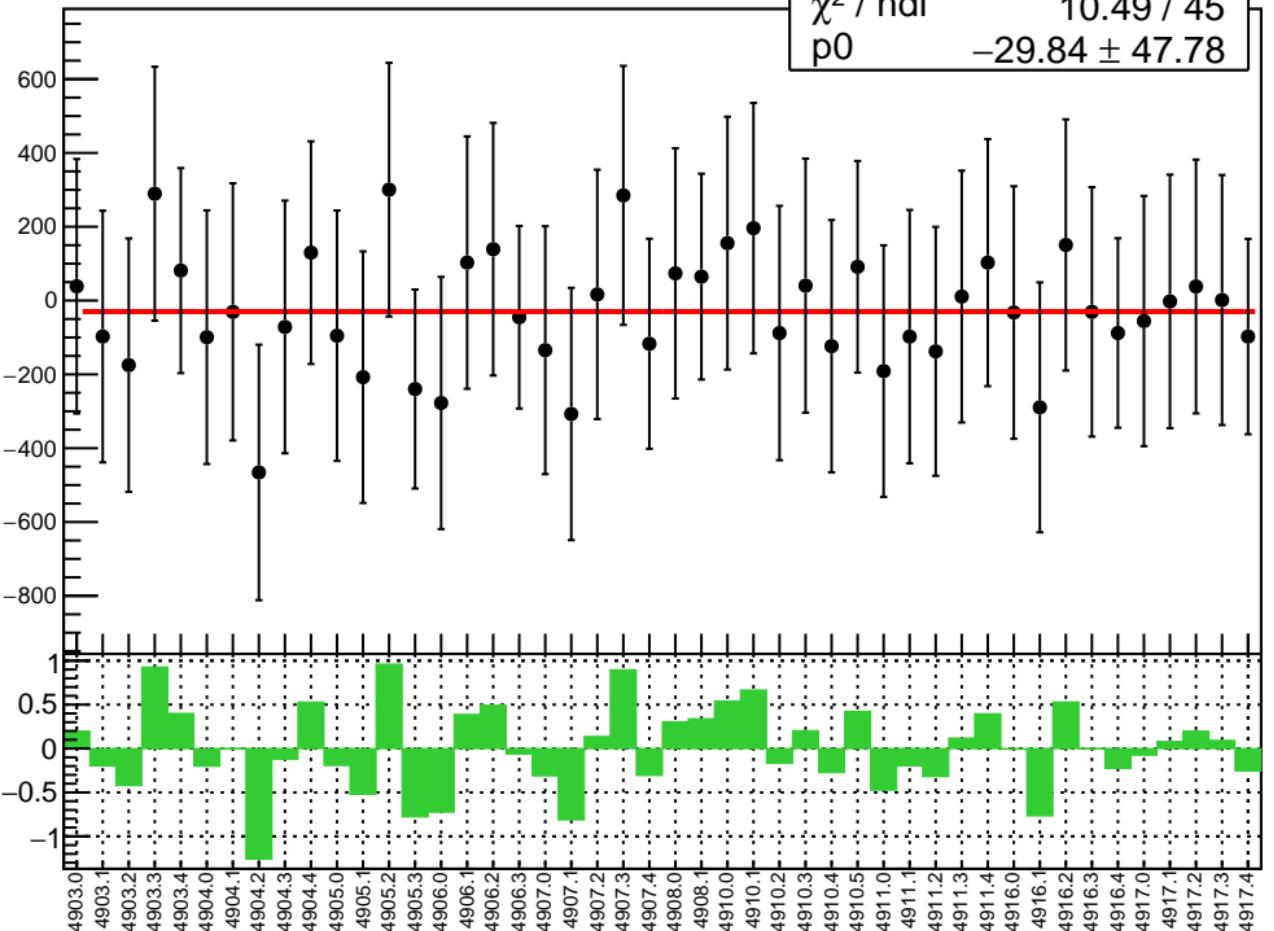
1D pull distribution



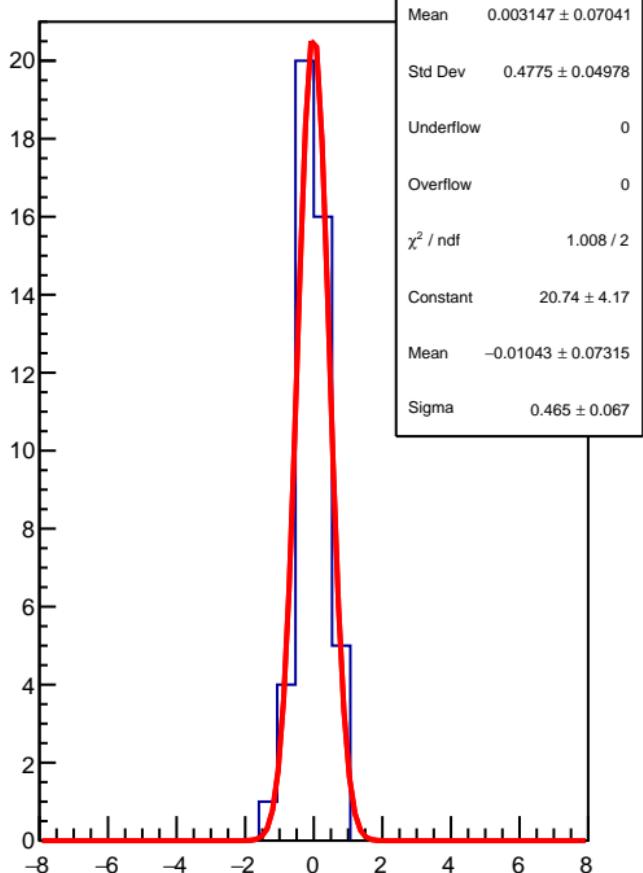
corr_us_dd_bpm4aX RMS (ppm)



corr_us_dd_bpm4aY (ppb)

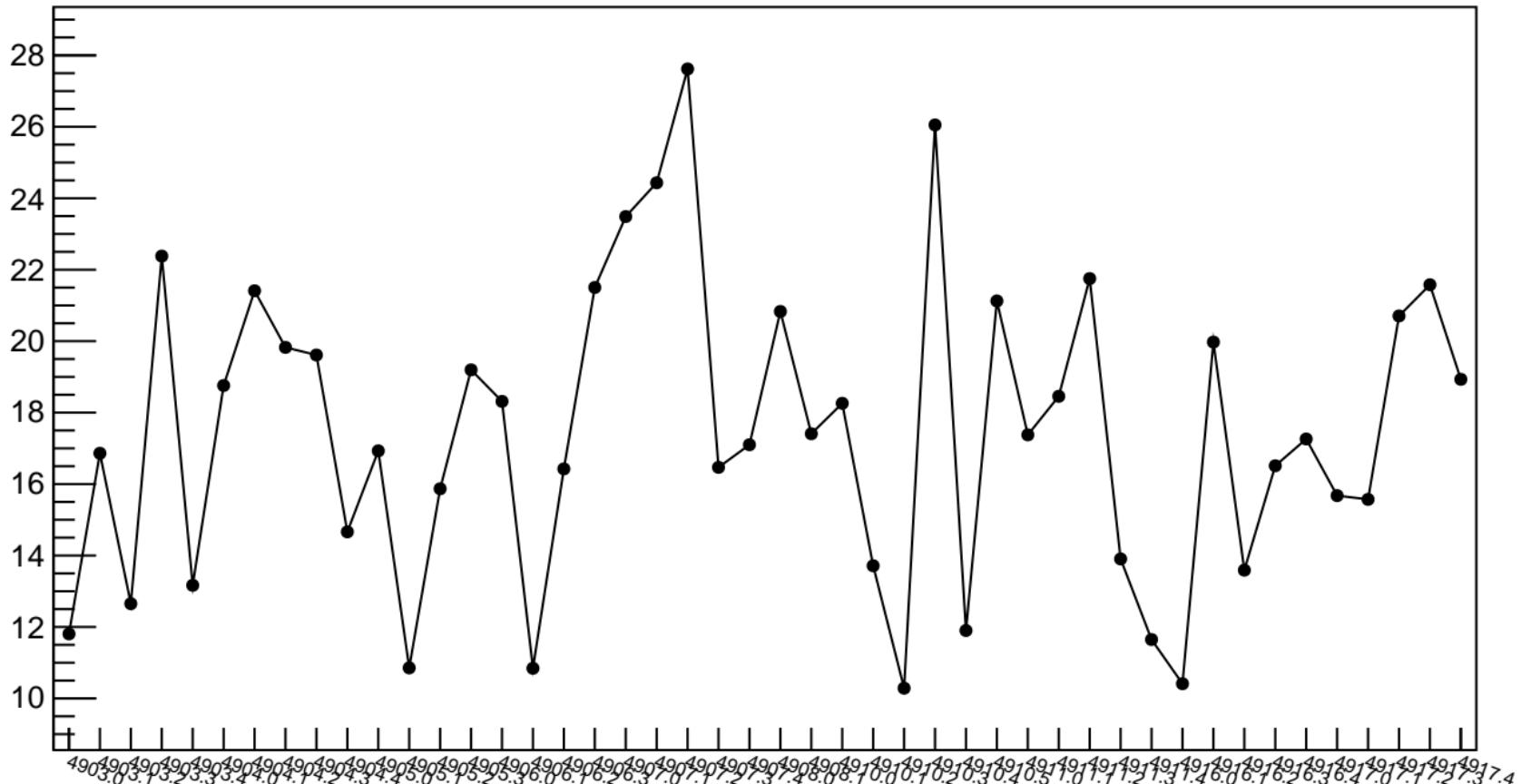
 χ^2 / ndf
 $10.49 / 45$
 p_0
 -29.84 ± 47.78


1D pull distribution



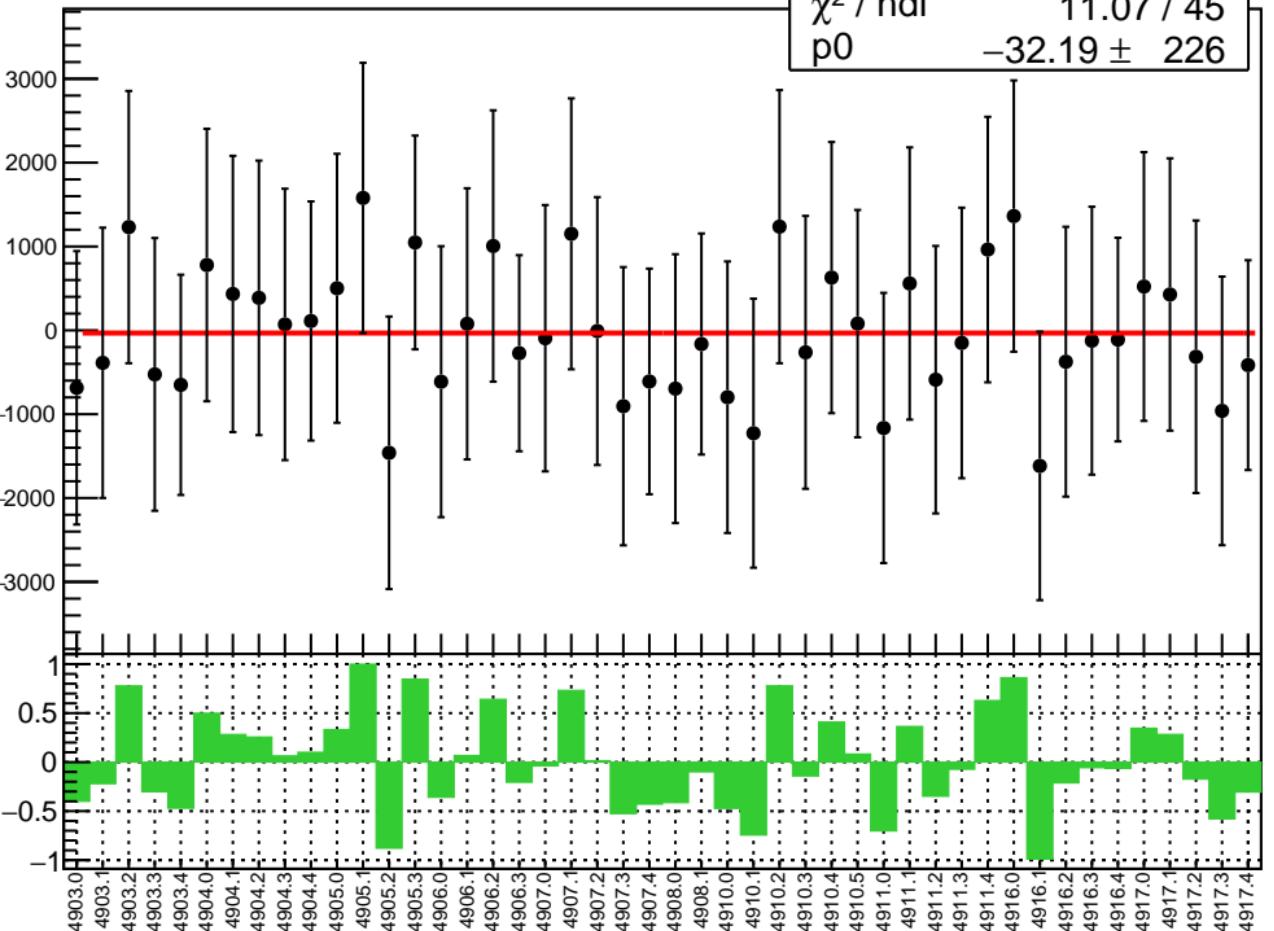
corr_us_dd_bpm4aY RMS (ppm)

RMS (ppm)

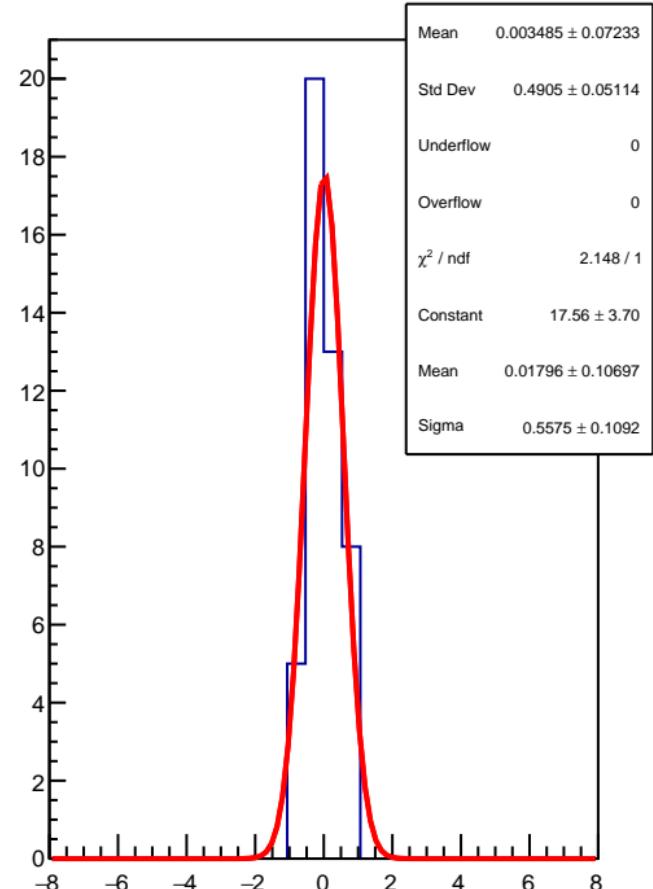


corr_us_dd_bpm1X (ppb)

χ^2 / ndf 11.07 / 45
p0 -32.19 ± 226

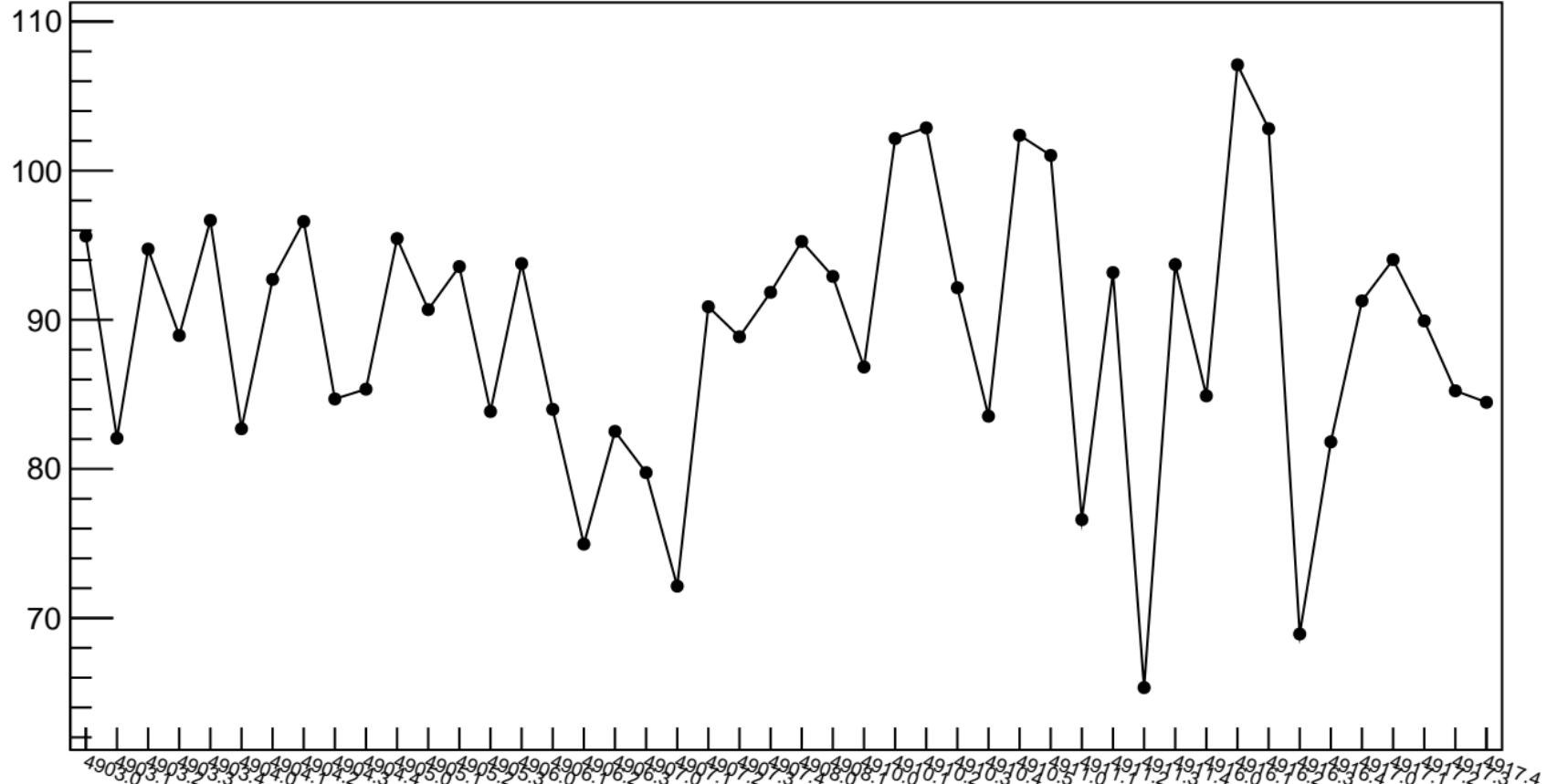


1D pull distribution



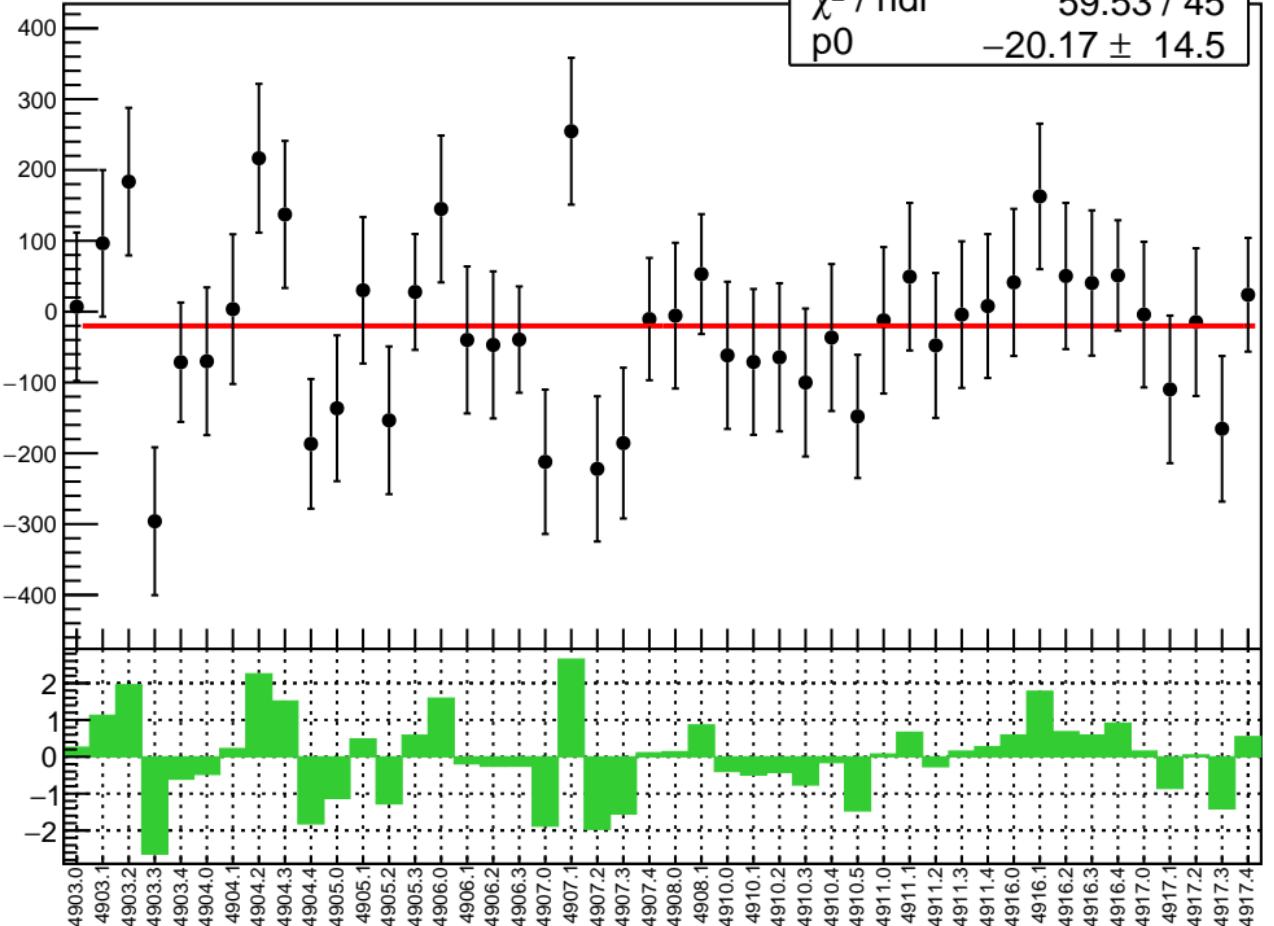
corr_us_dd_bpm1X RMS (ppm)

RMS (ppm)

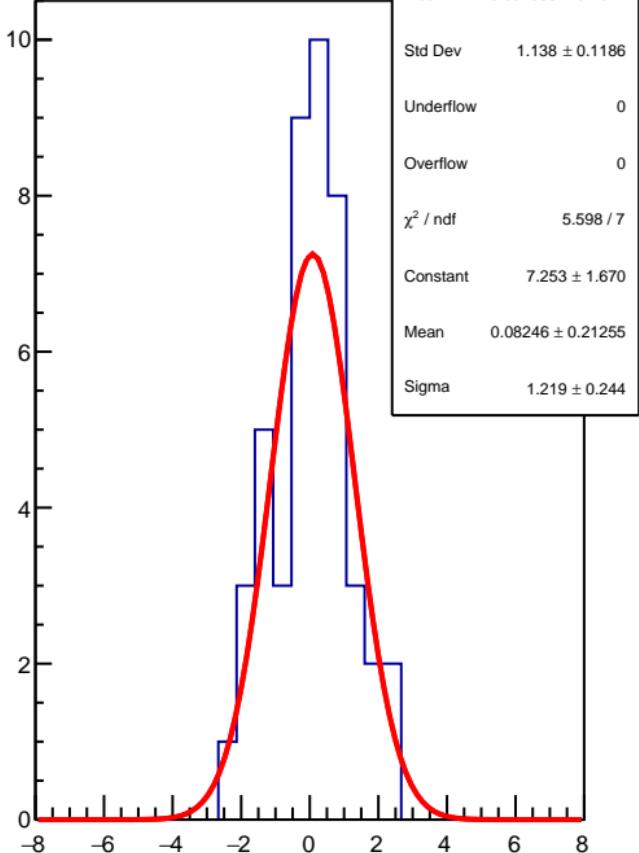


corr_us_dd_bpm1Y (ppb)

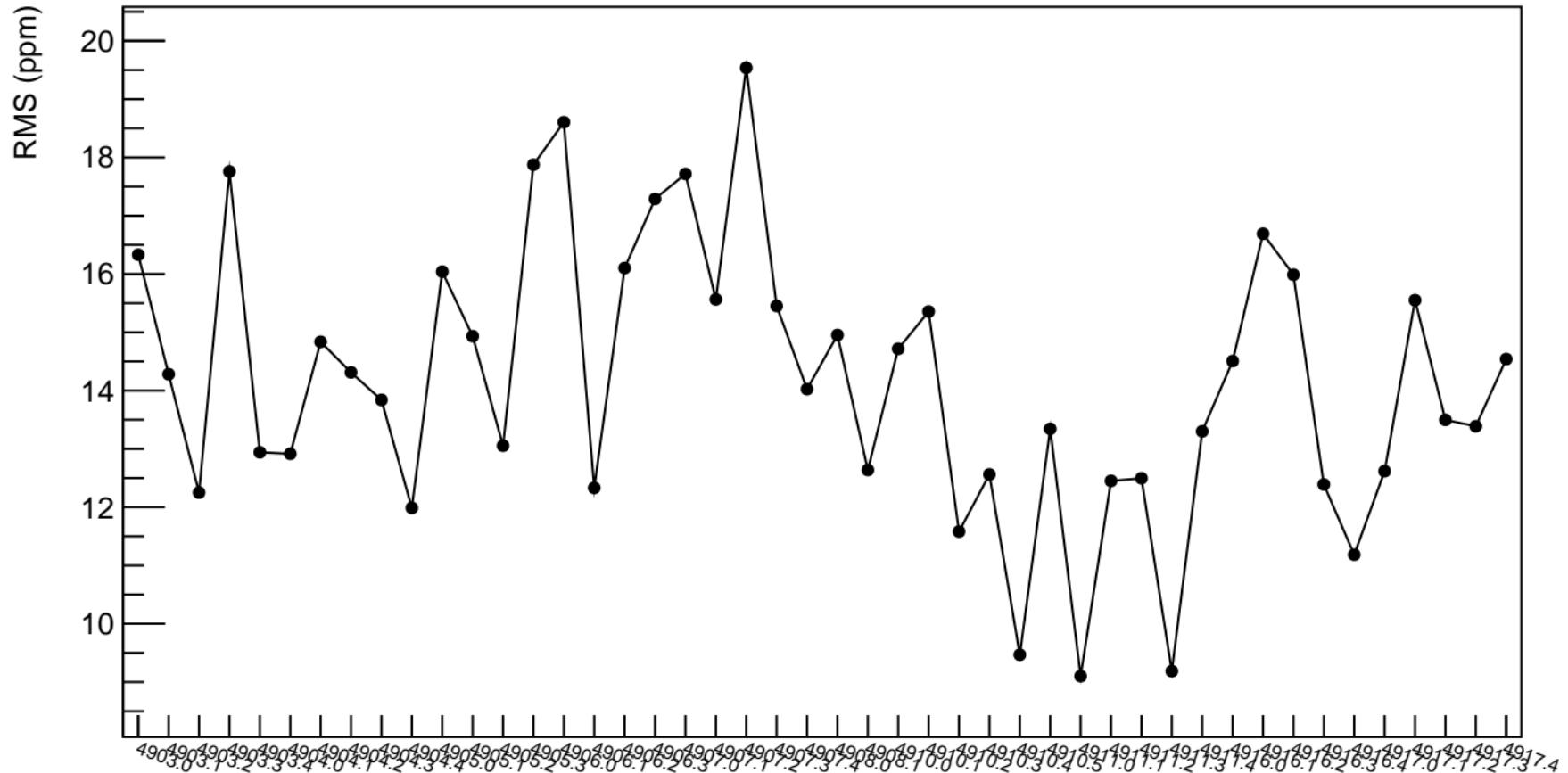
χ^2 / ndf 59.53 / 45
p0 -20.17 ± 14.5



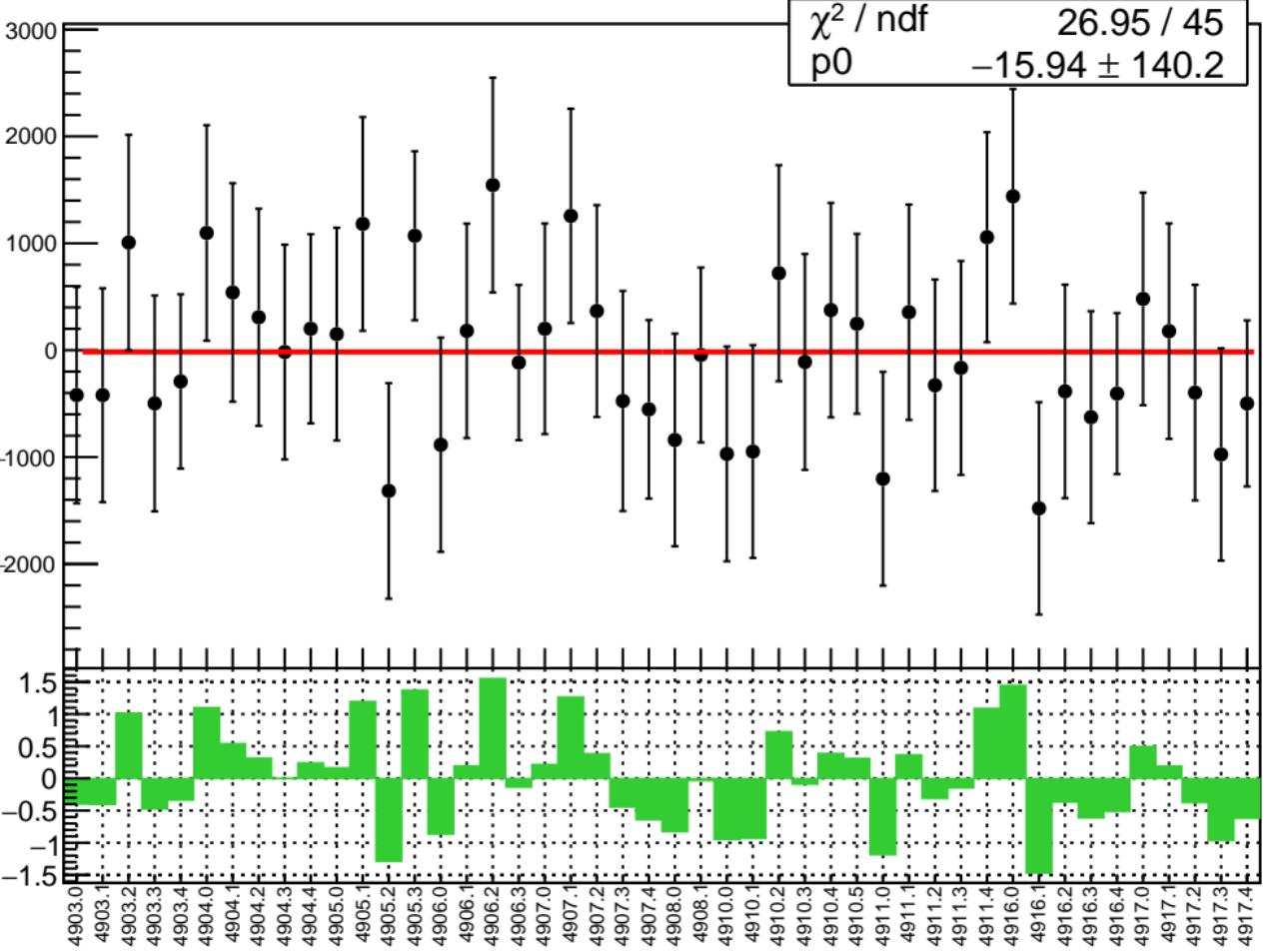
1D pull distribution



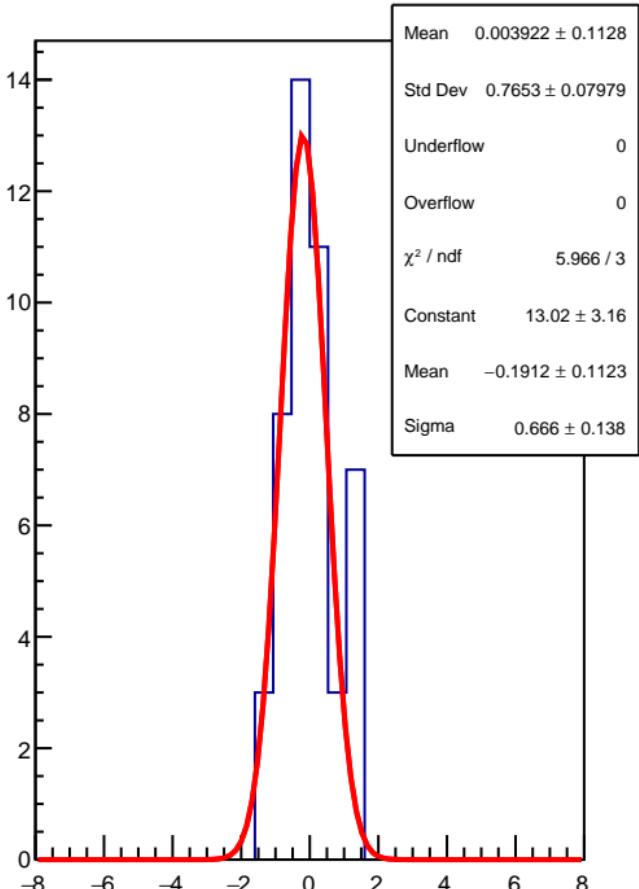
corr_us_dd_bpm1Y RMS (ppm)



corr_us_dd_bpm16X (ppb)

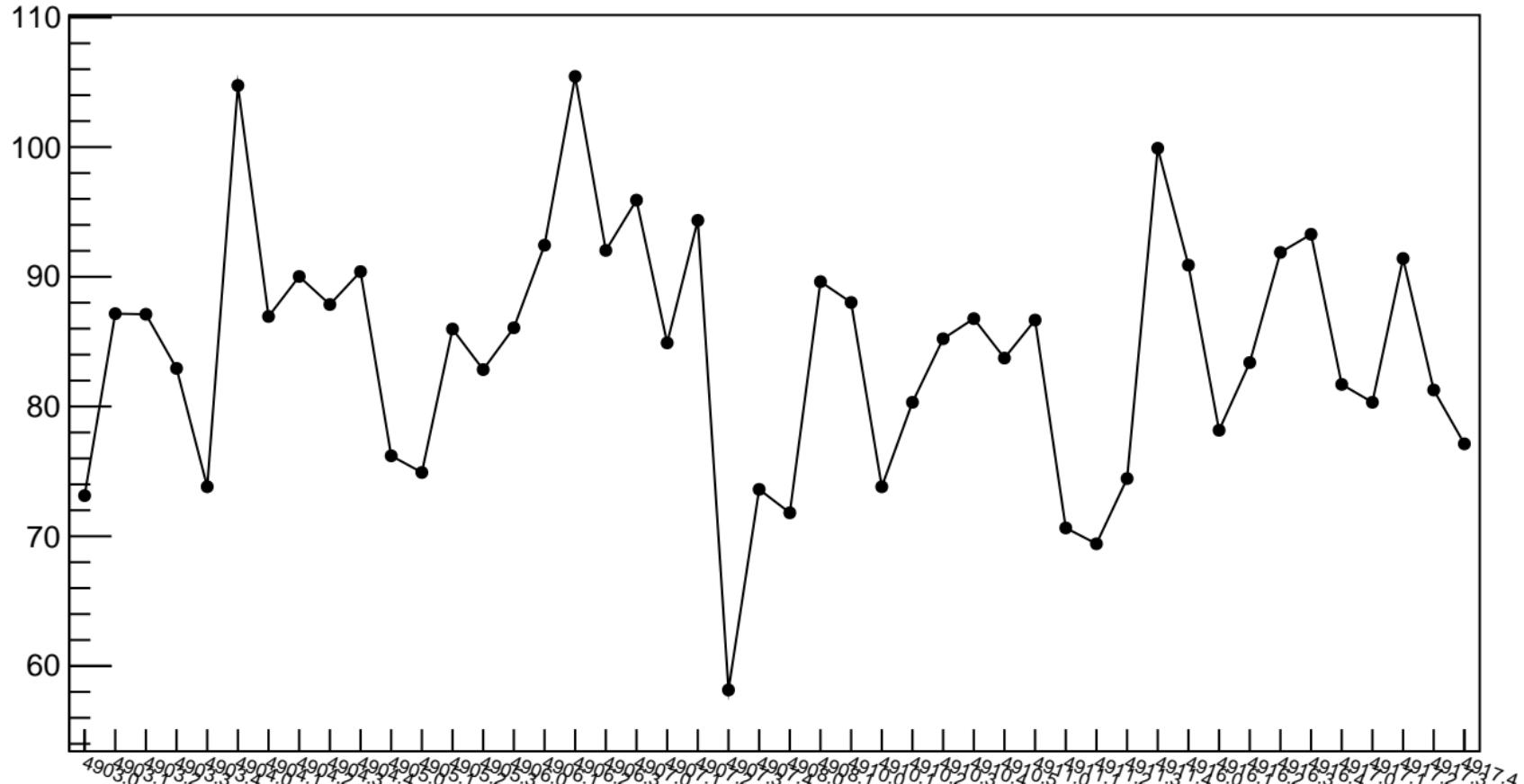


1D pull distribution



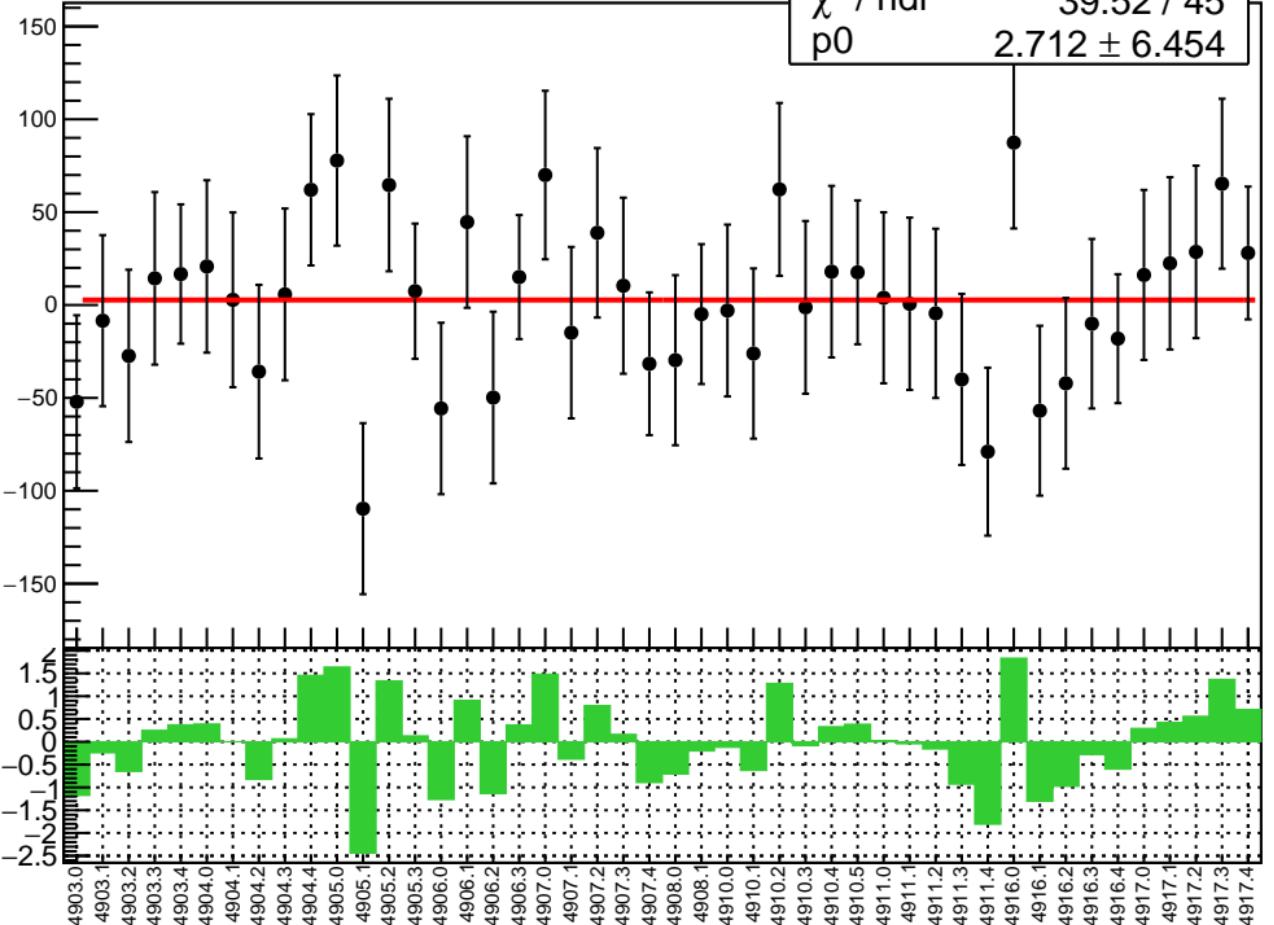
corr_us_dd_bpm16X RMS (ppm)

RMS (ppm)

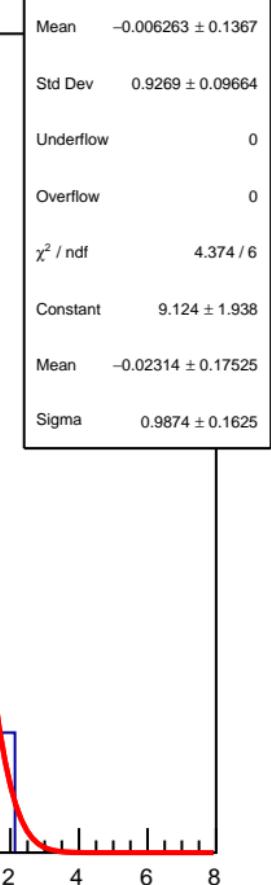


corr_us_dd_bpm16Y (ppb)

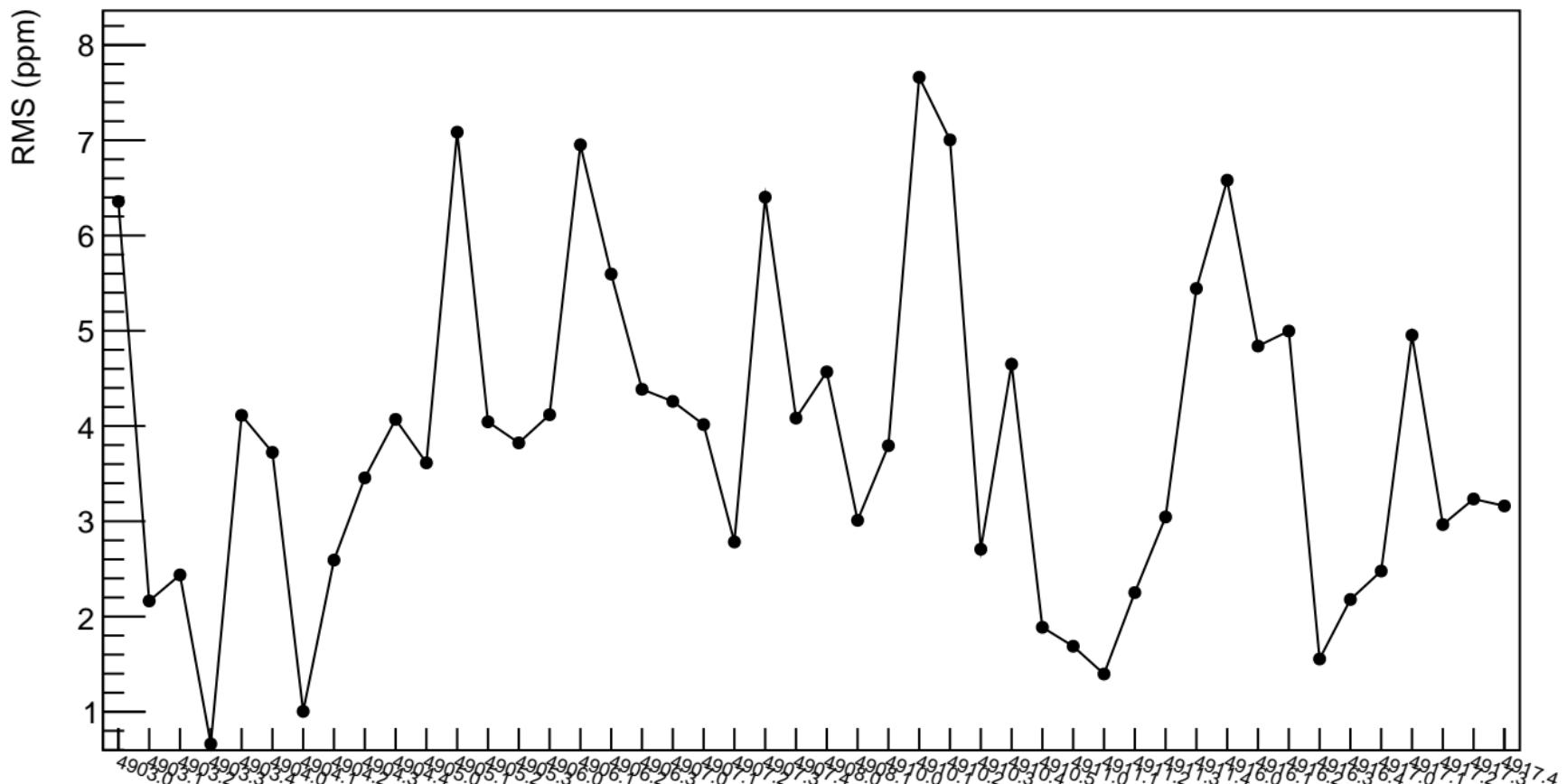
χ^2 / ndf 39.52 / 45
p0 2.712 ± 6.454



1D pull distribution

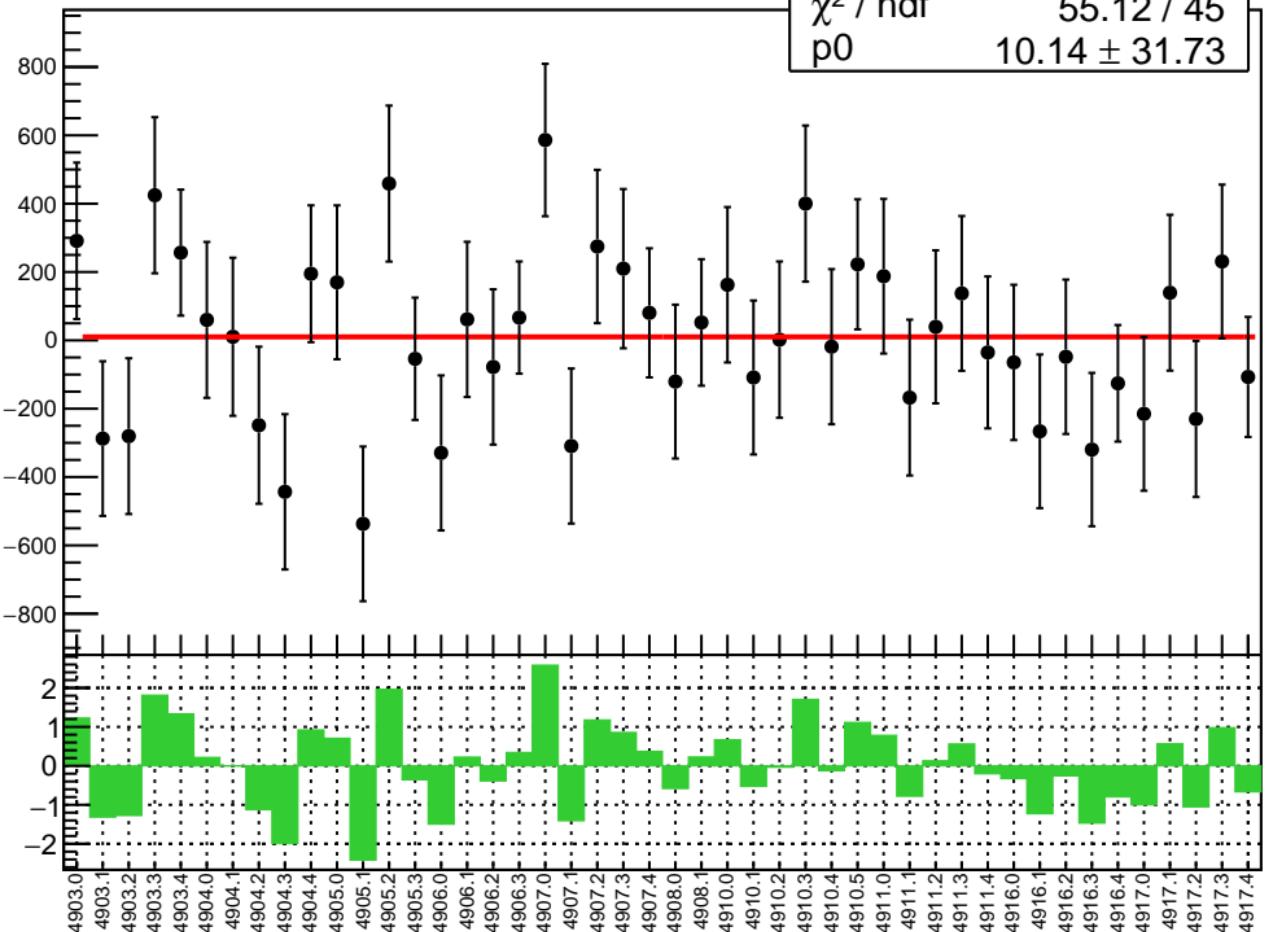


corr_us_dd_bpm16Y RMS (ppm)

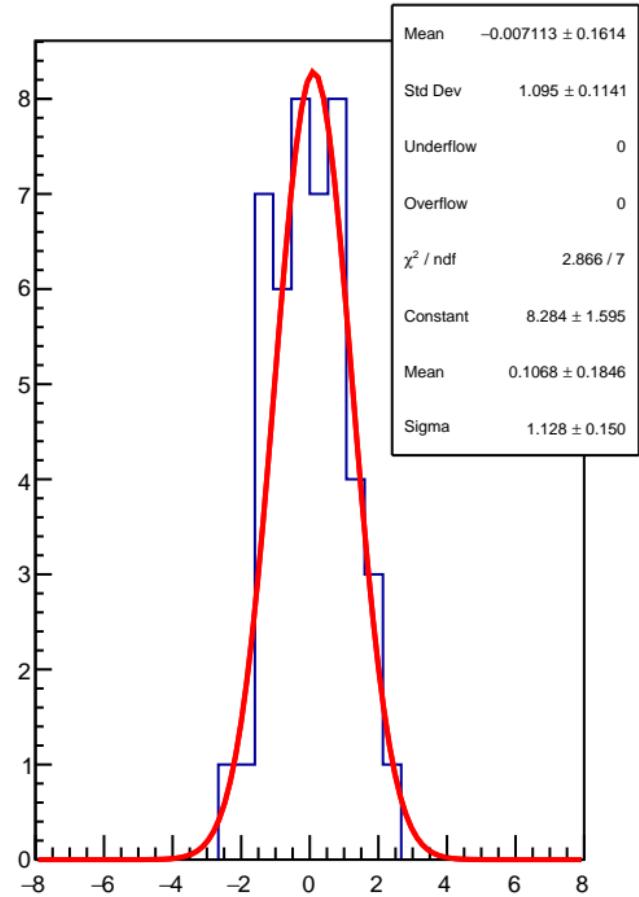


corr_us_dd_bpm12X (ppb)

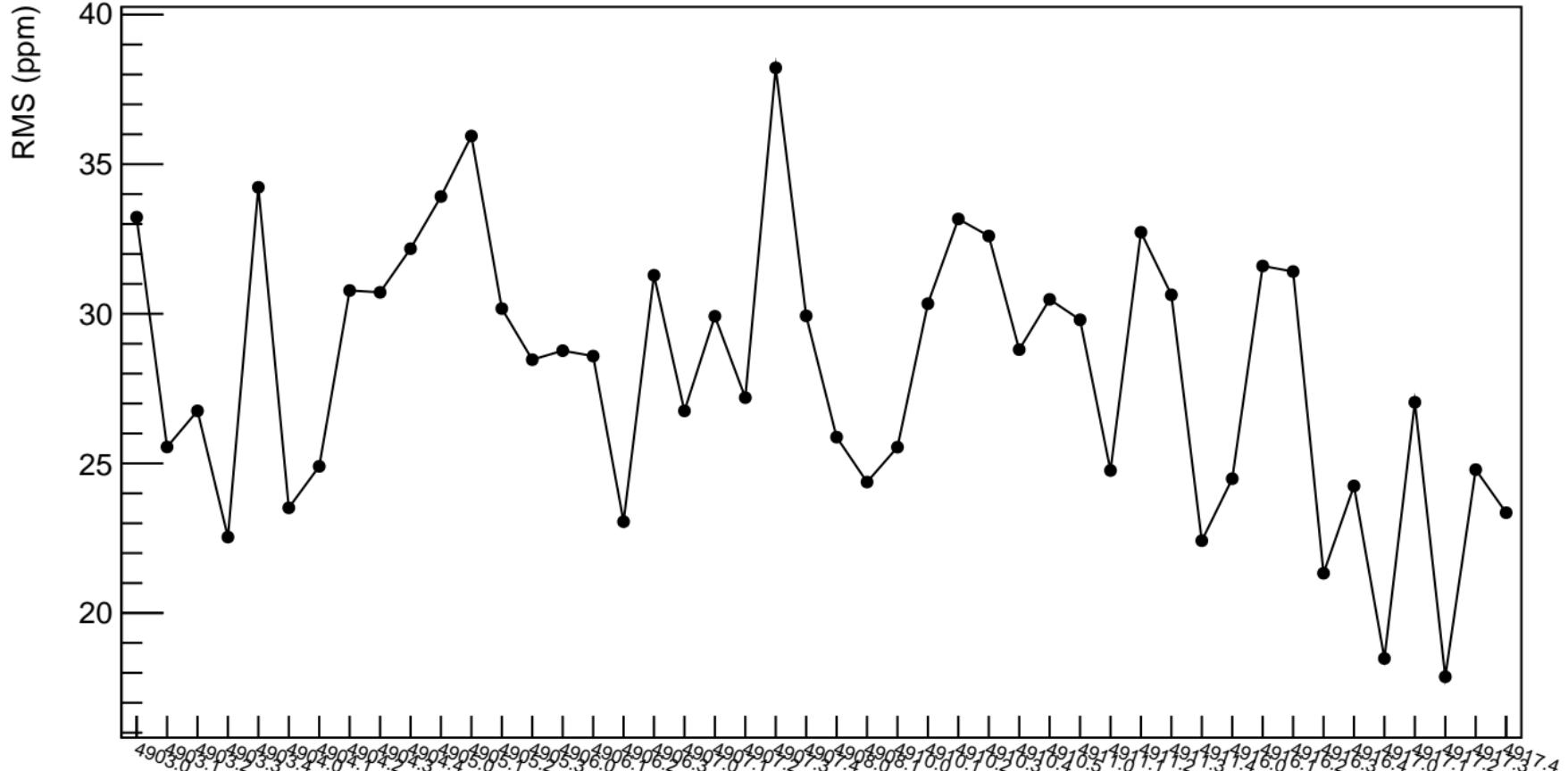
χ^2 / ndf 55.12 / 45
p0 10.14 ± 31.73



1D pull distribution

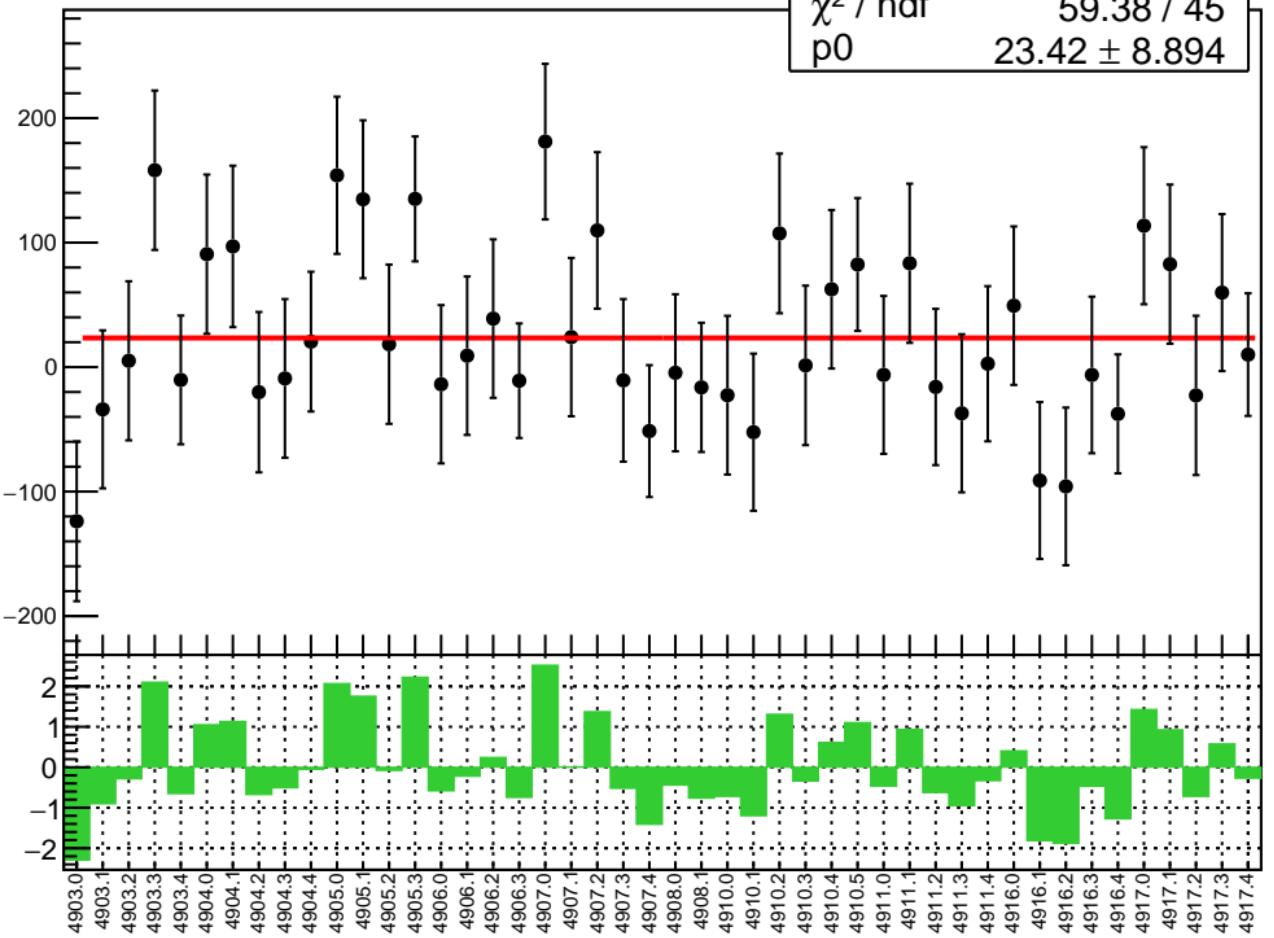


corr_us_dd_bpm12X RMS (ppm)

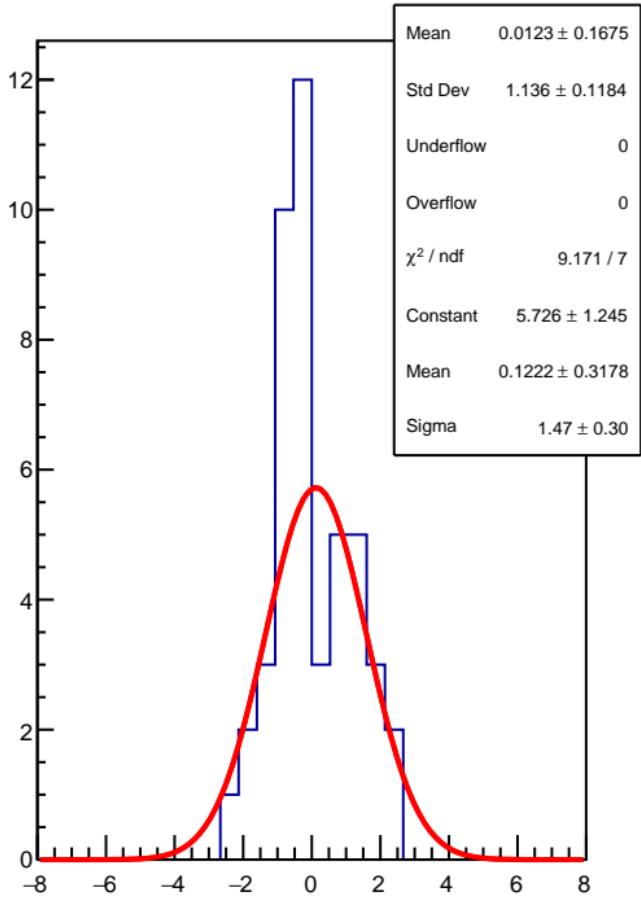


corr_us_dd_bpm12Y (ppb)

χ^2 / ndf 59.38 / 45
 p_0 23.42 ± 8.894

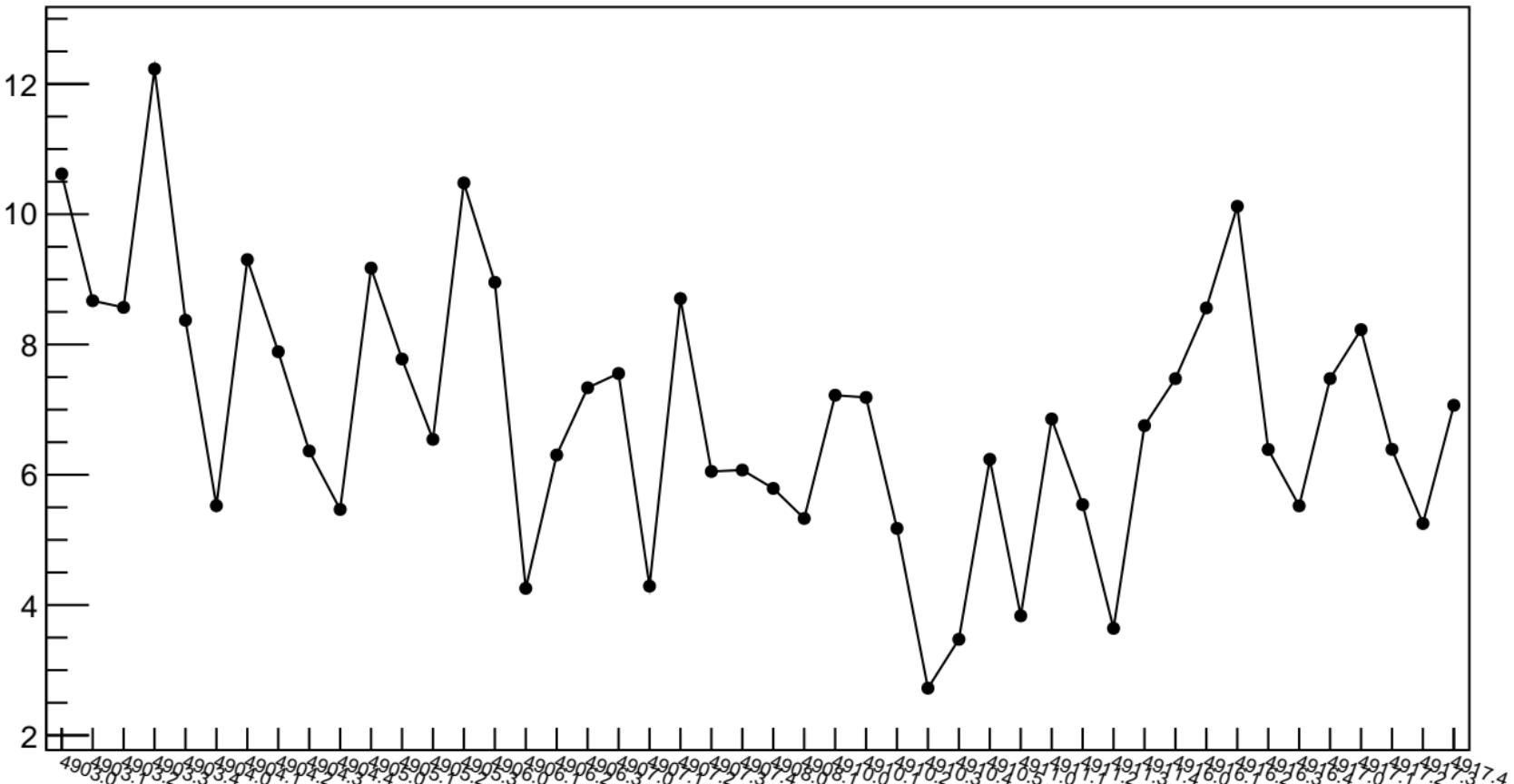


1D pull distribution



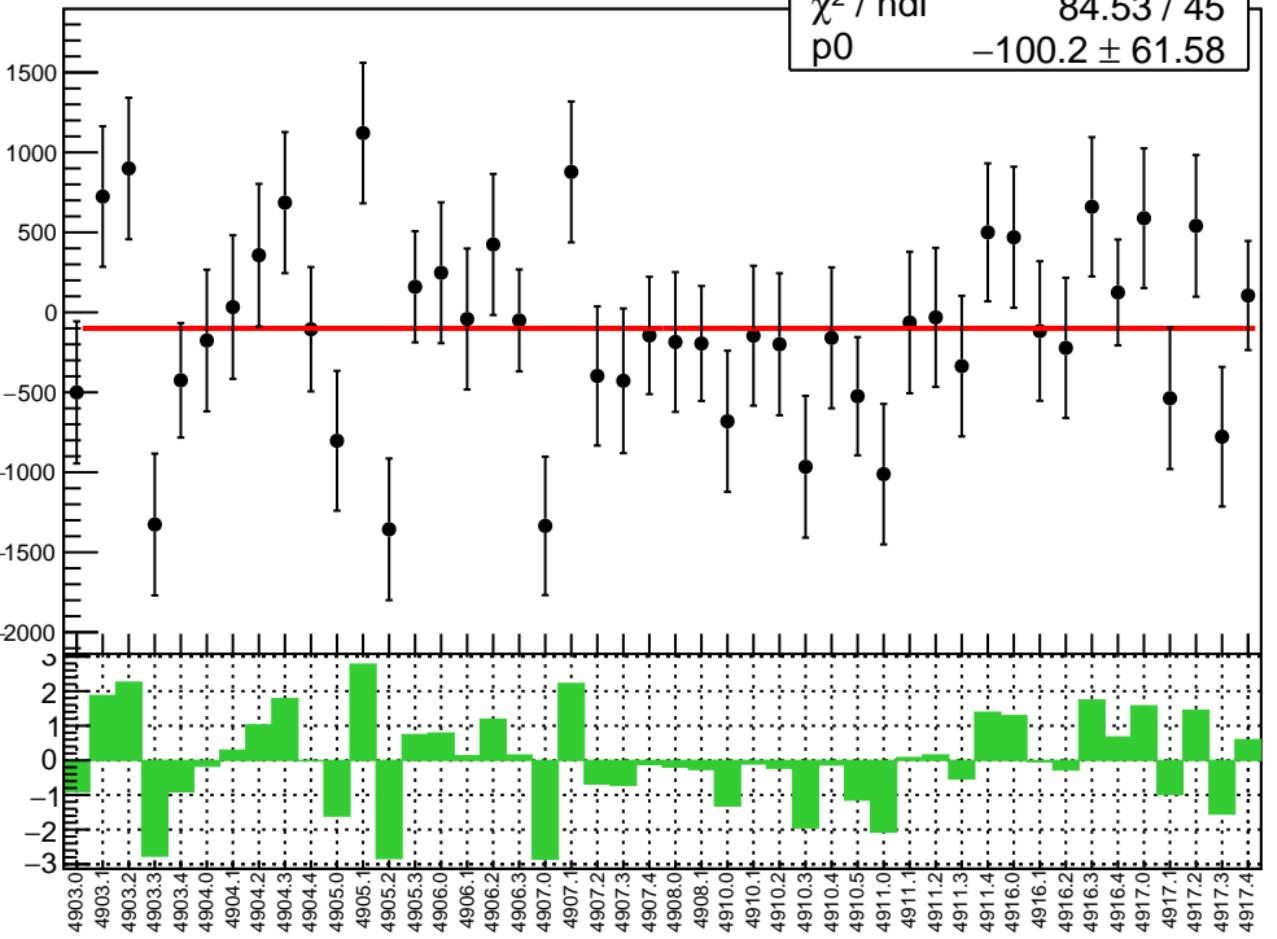
corr_us_dd_bpm12Y RMS (ppm)

RMS (ppm)

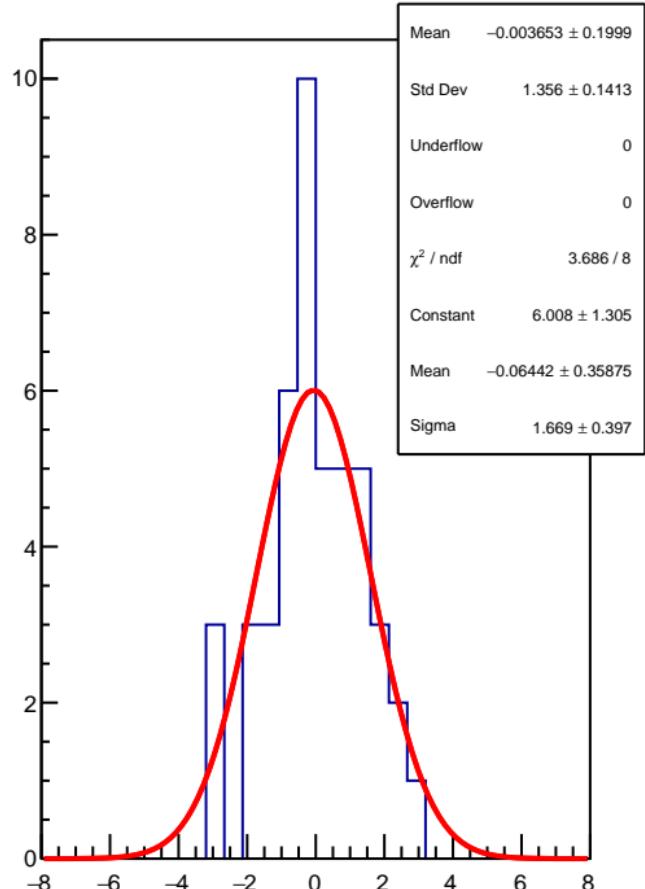


corr_us_dd_bpm11X (ppb)

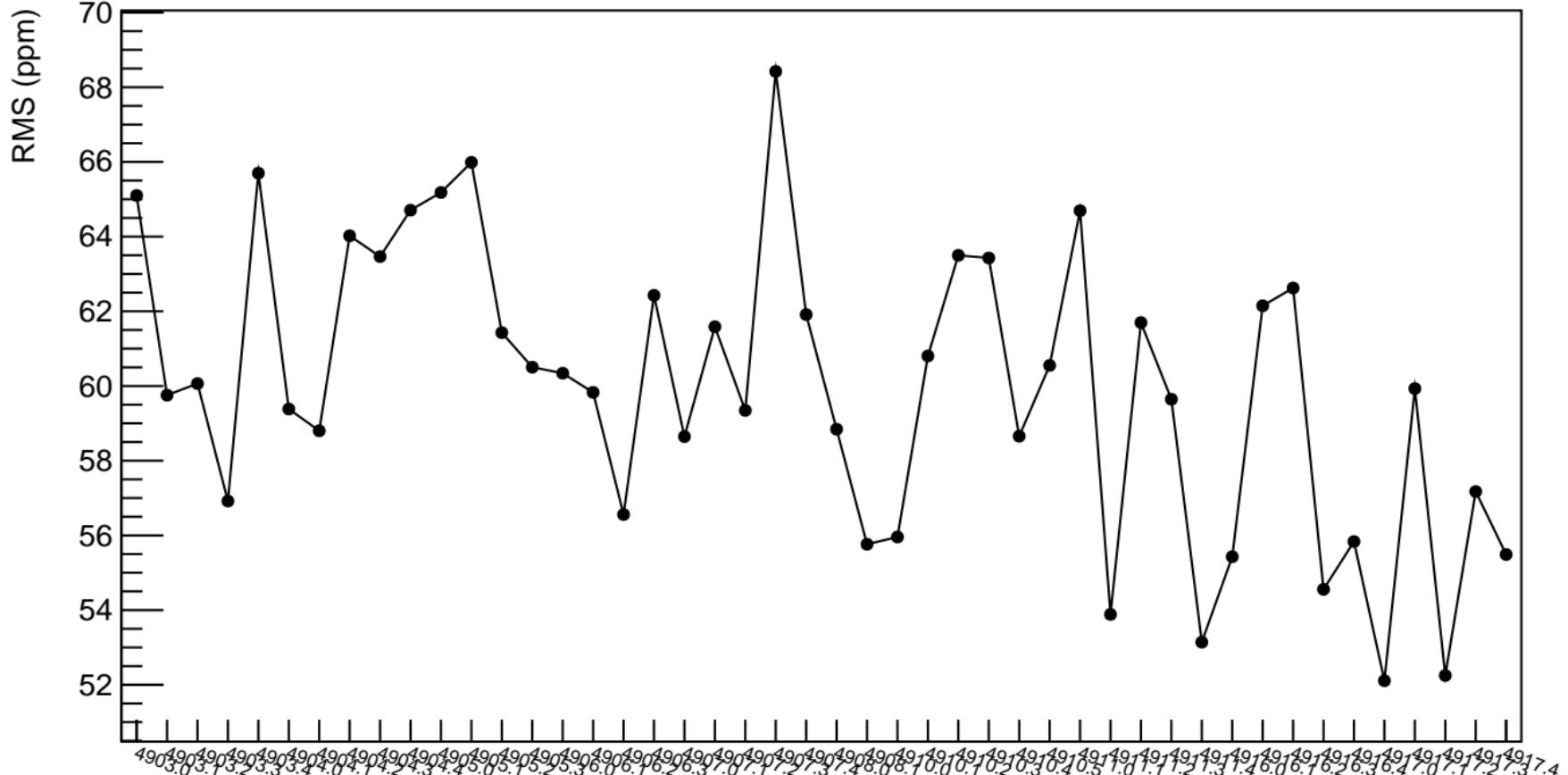
χ^2 / ndf 84.53 / 45
p0 -100.2 ± 61.58



1D pull distribution

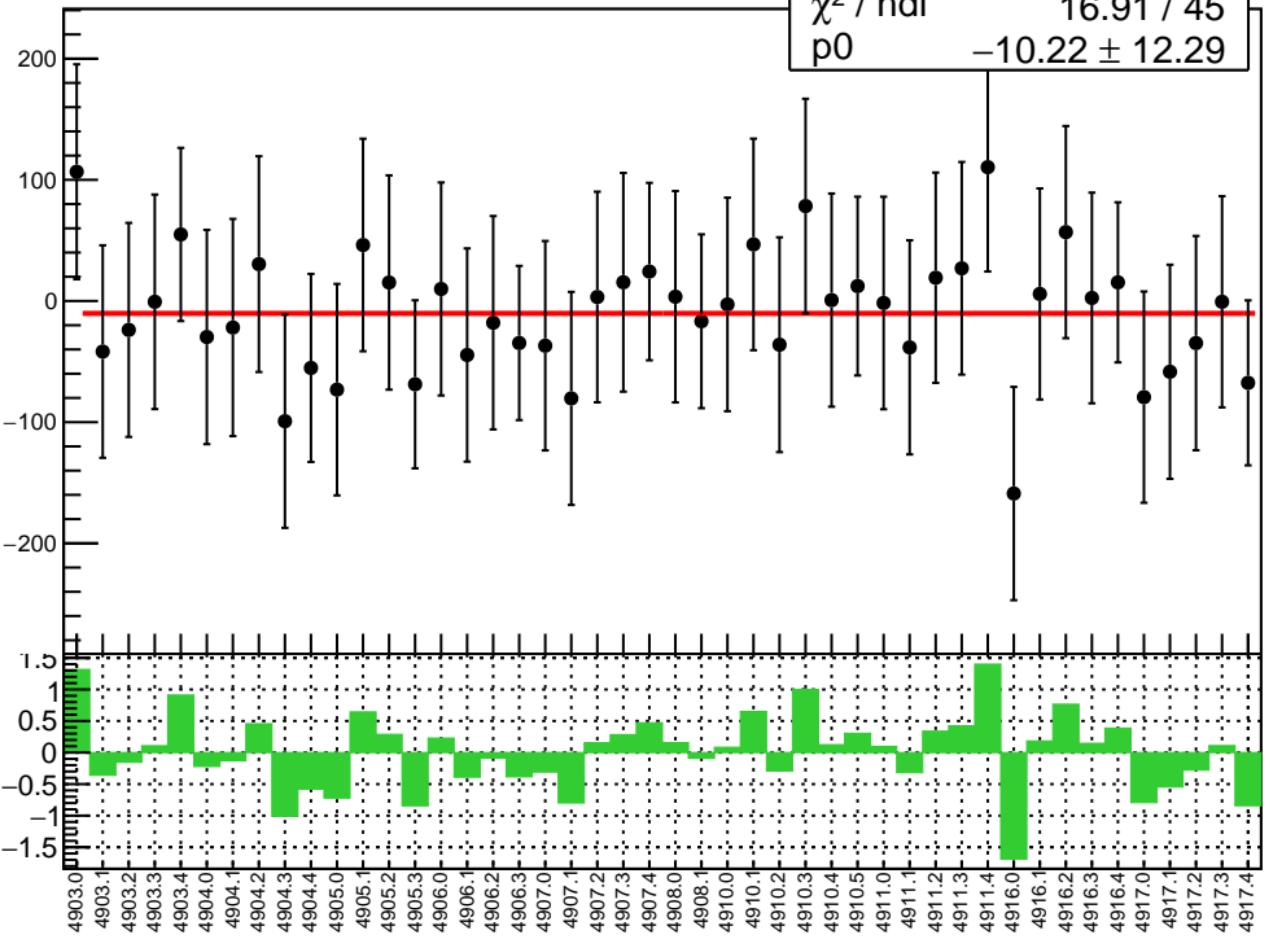


corr_us_dd_bpm11X RMS (ppm)

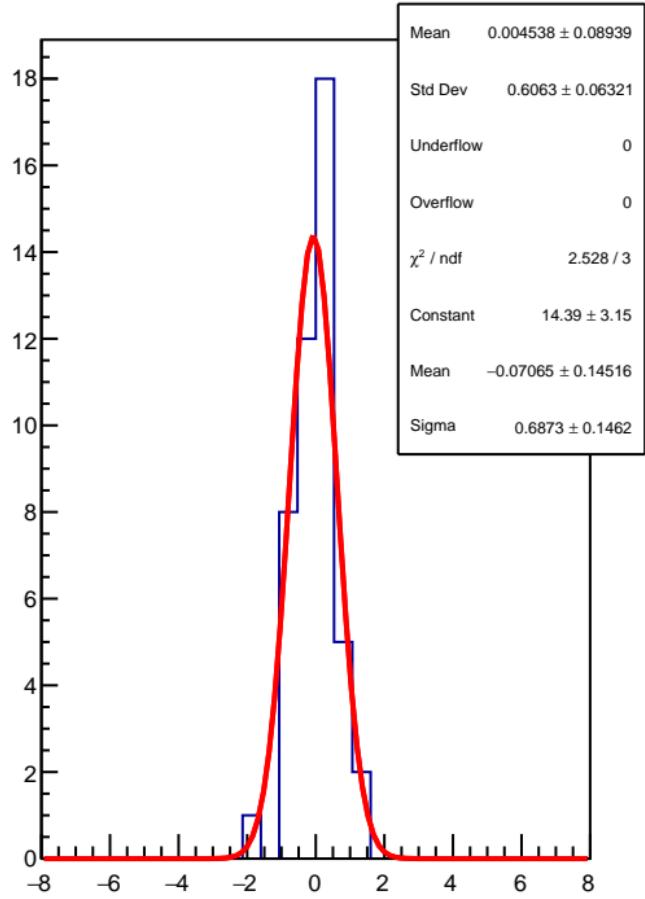


corr_us_dd_bpm11Y (ppb)

χ^2 / ndf 16.91 / 45
 p_0 -10.22 ± 12.29

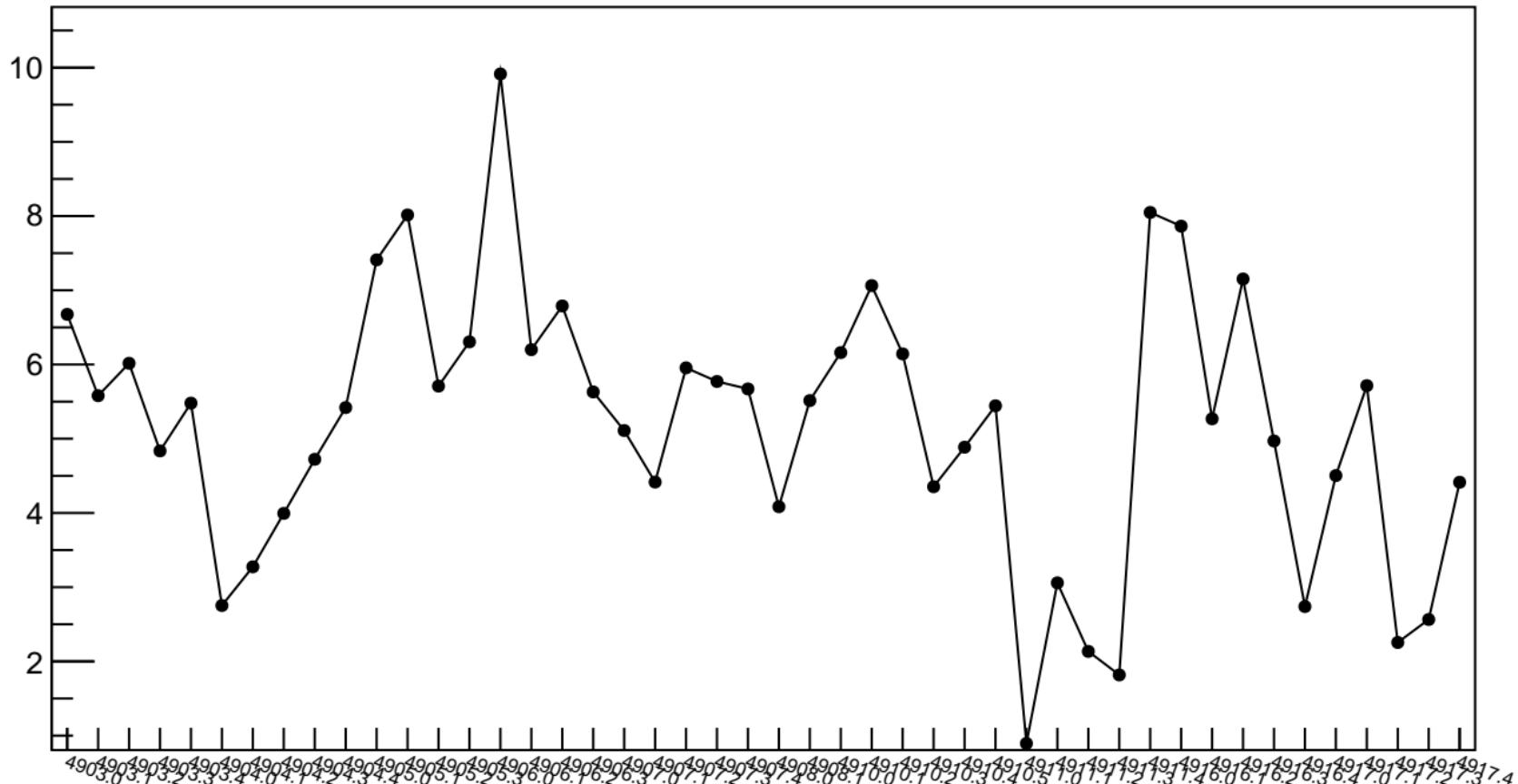


1D pull distribution

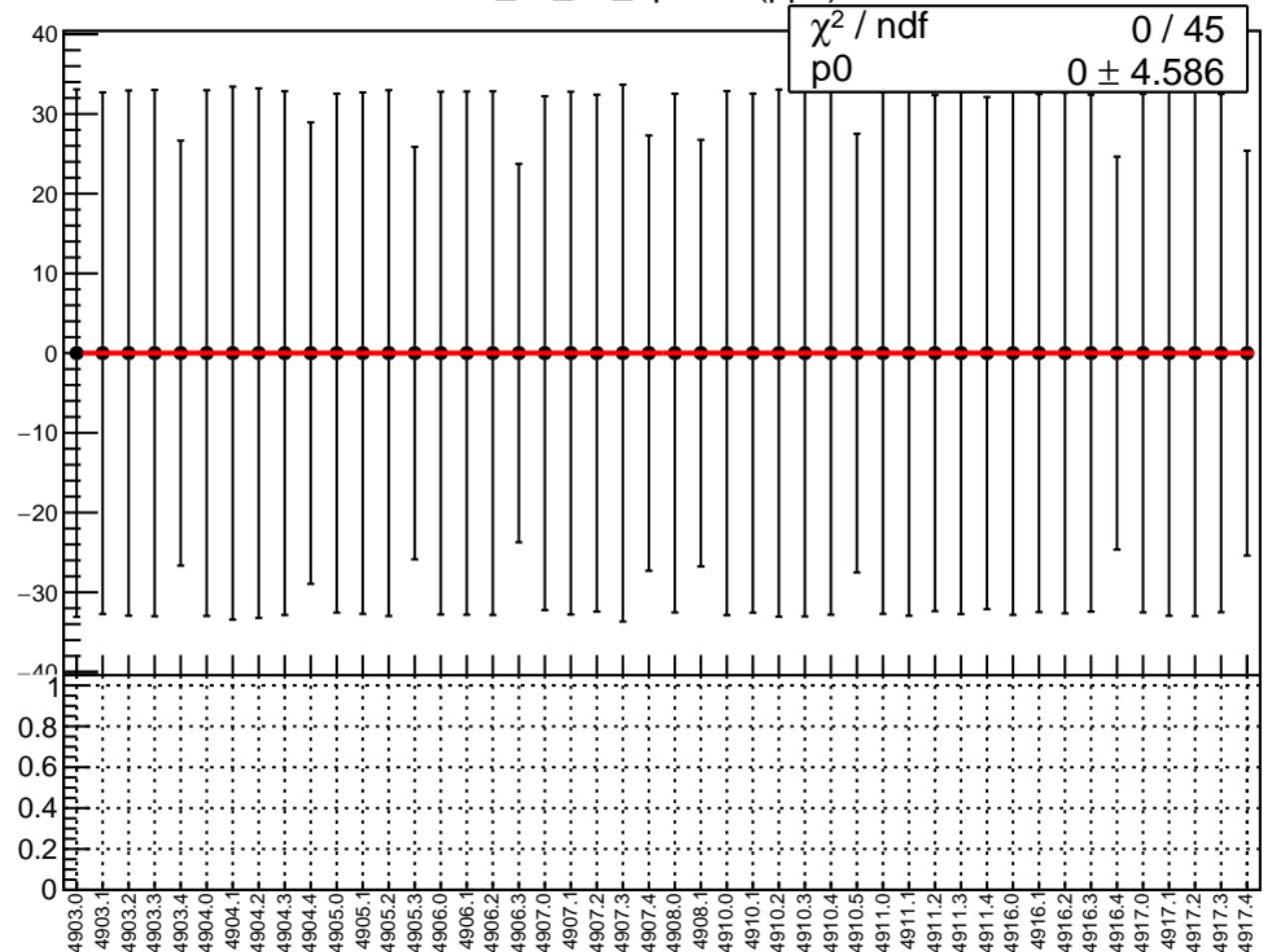


corr_us_dd_bpm11Y RMS (ppm)

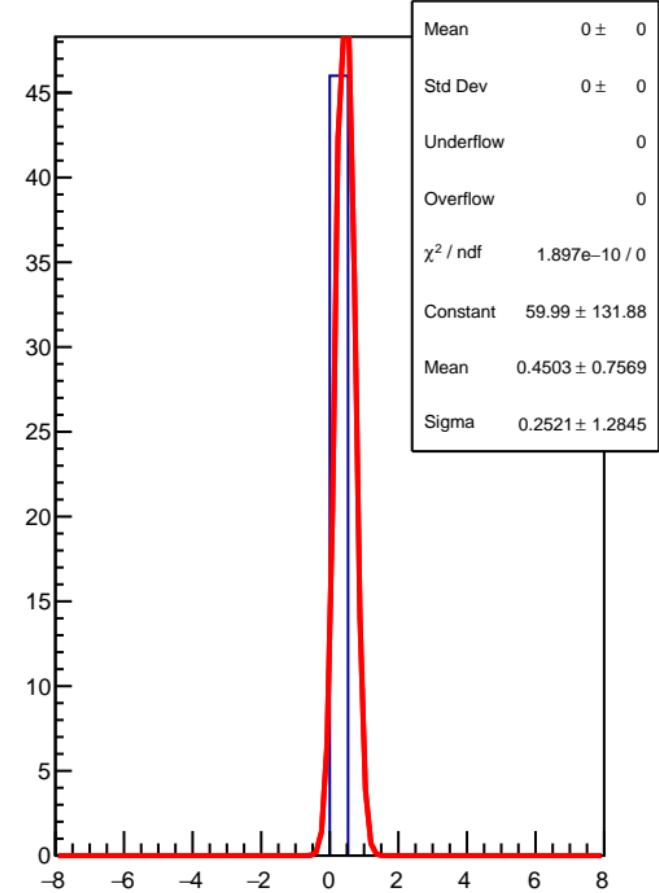
RMS (ppm)



corr_us_dd_bpm8X (ppb)

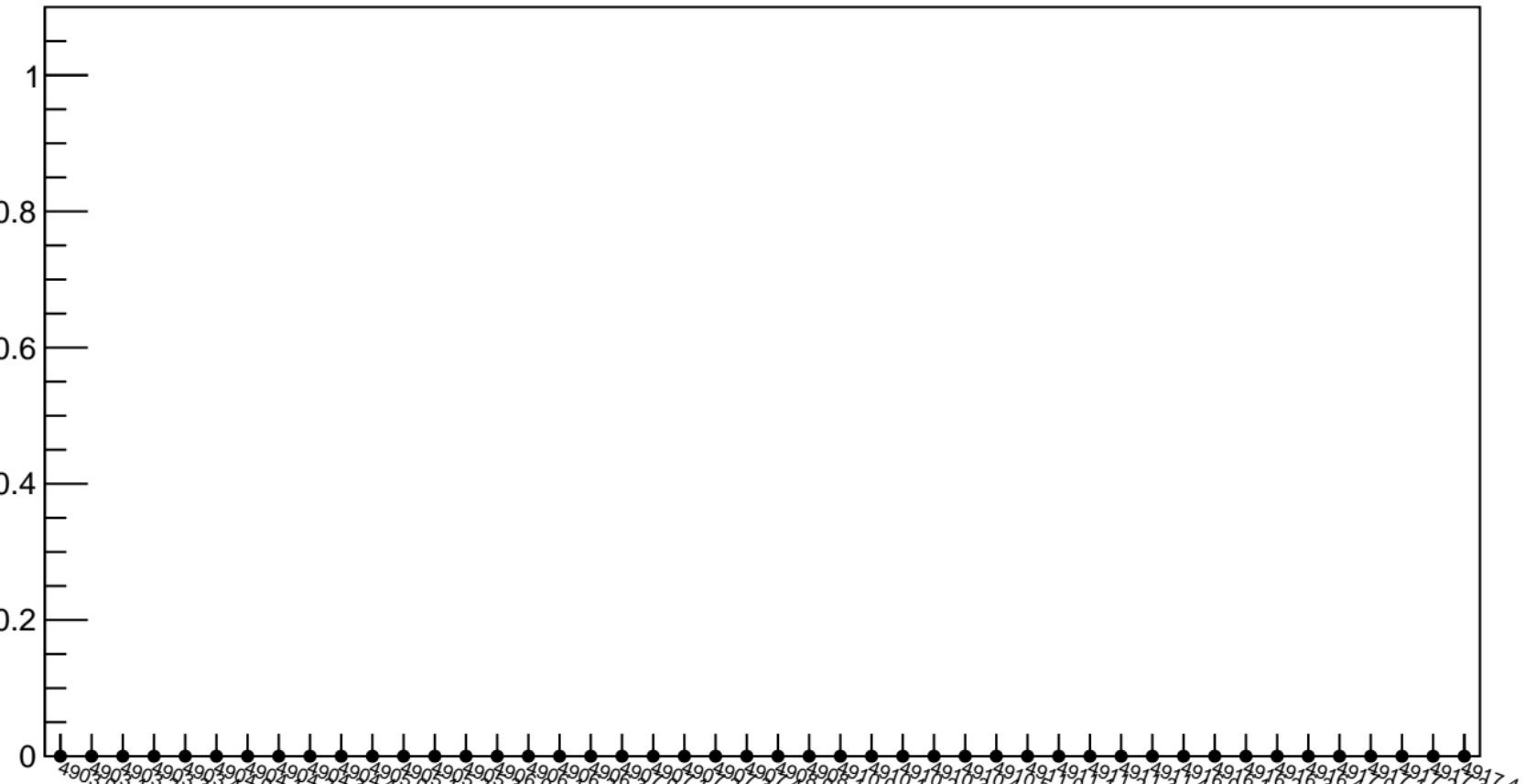


1D pull distribution

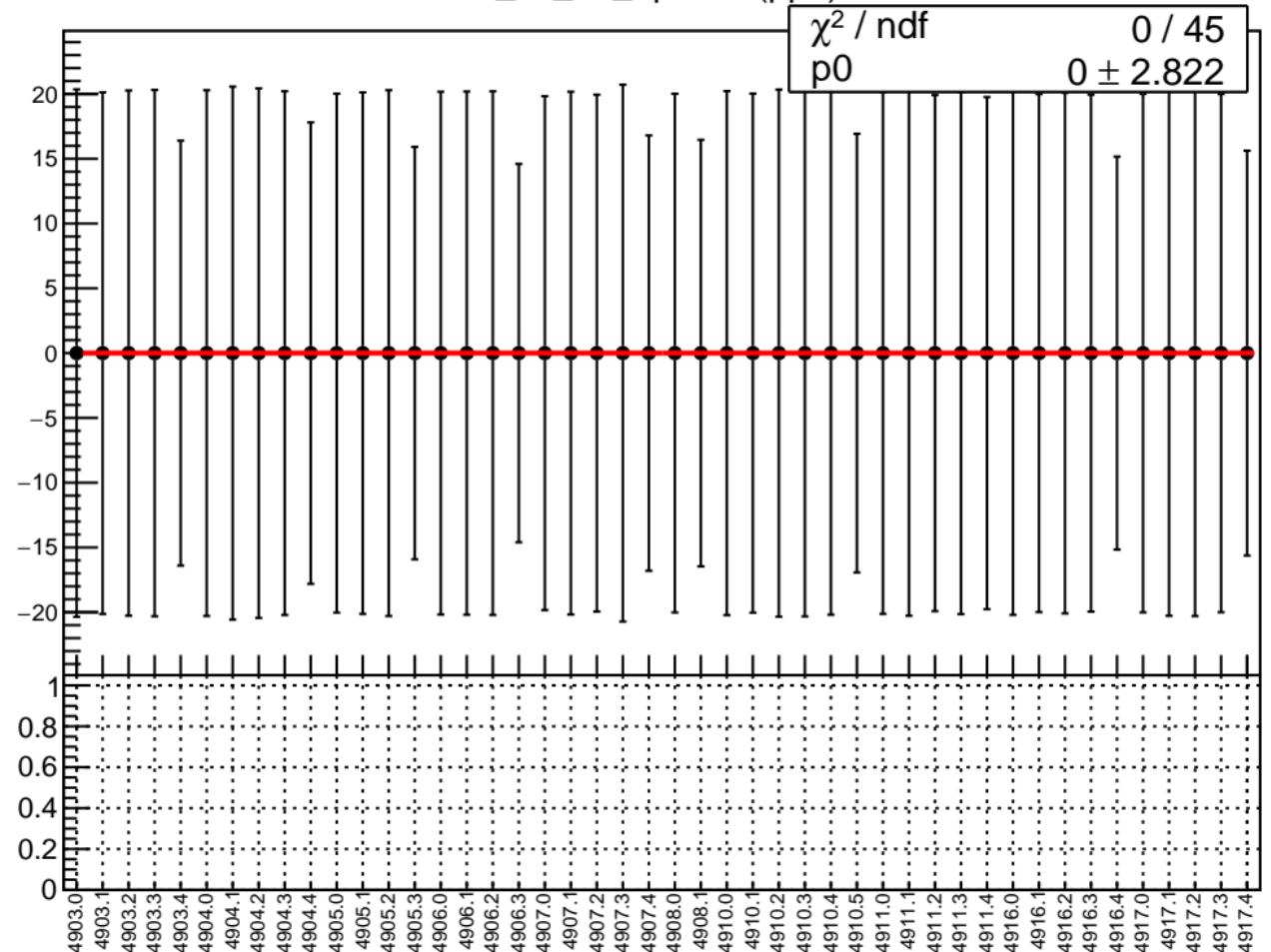


corr_us_dd_bpm8X RMS (ppm)

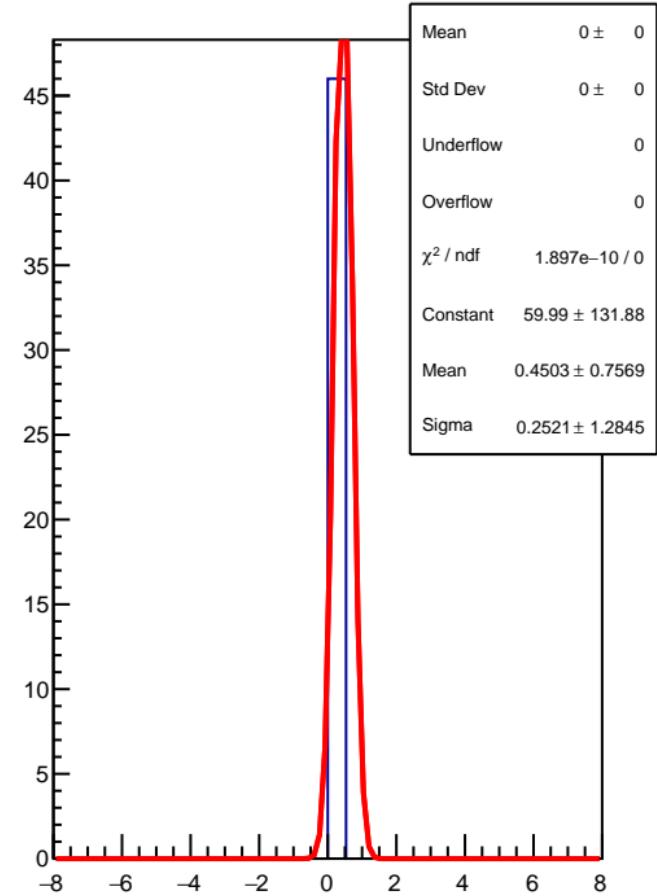
RMS (ppm)



corr_us_dd_bpm8Y (ppb)

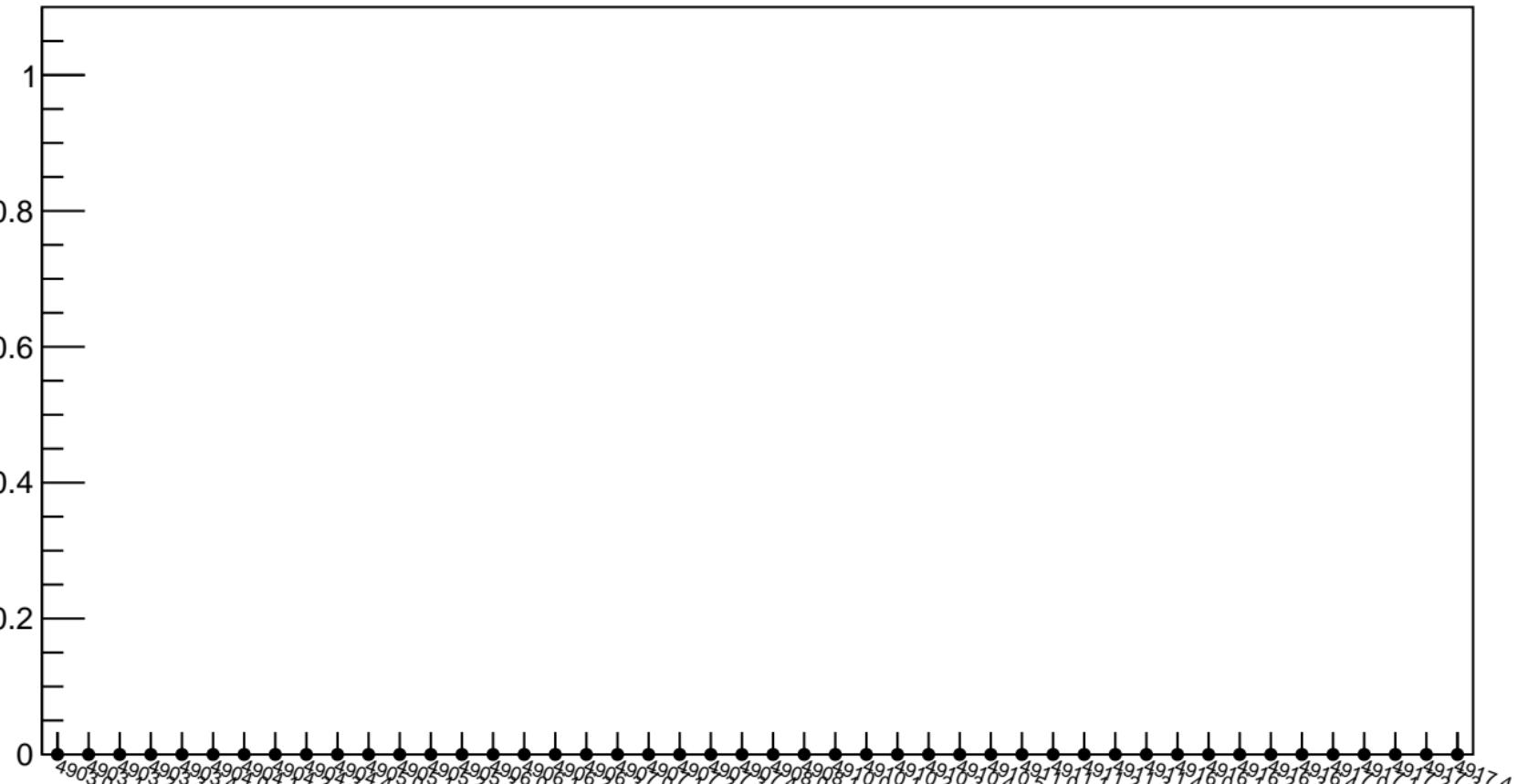


1D pull distribution

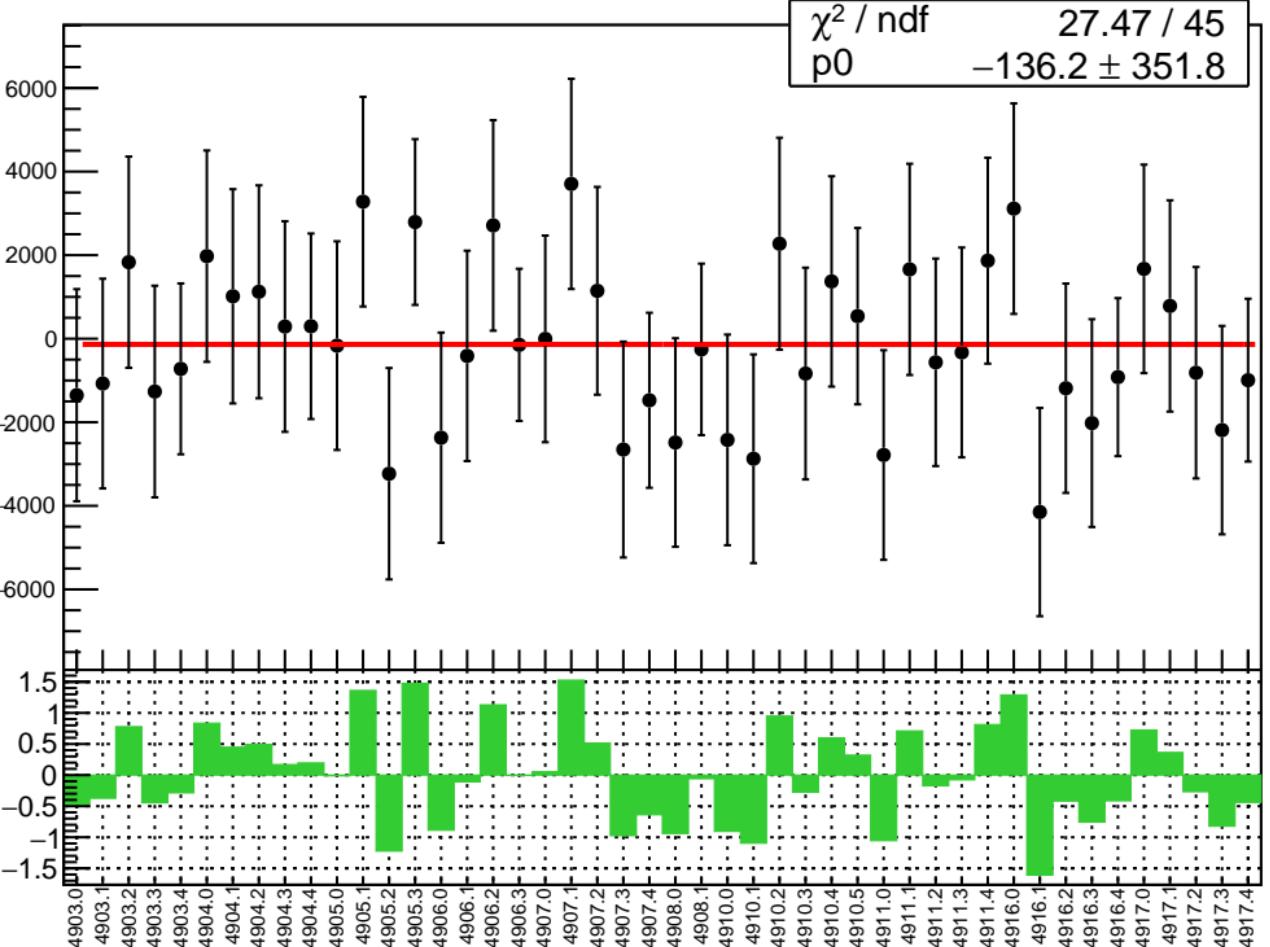


corr_us_dd_bpm8Y RMS (ppm)

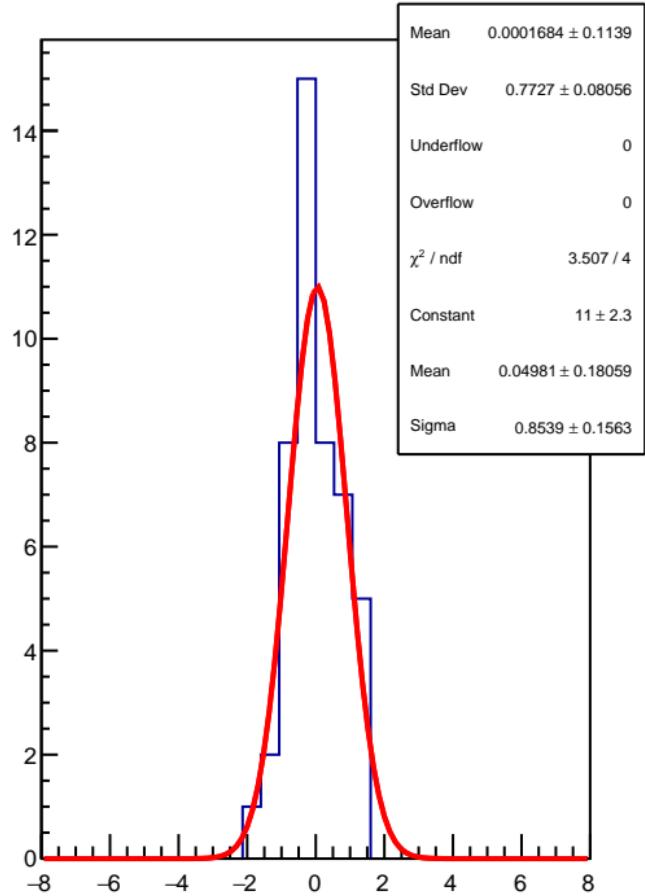
RMS (ppm)



corr_usl_bpm4eX (ppb)

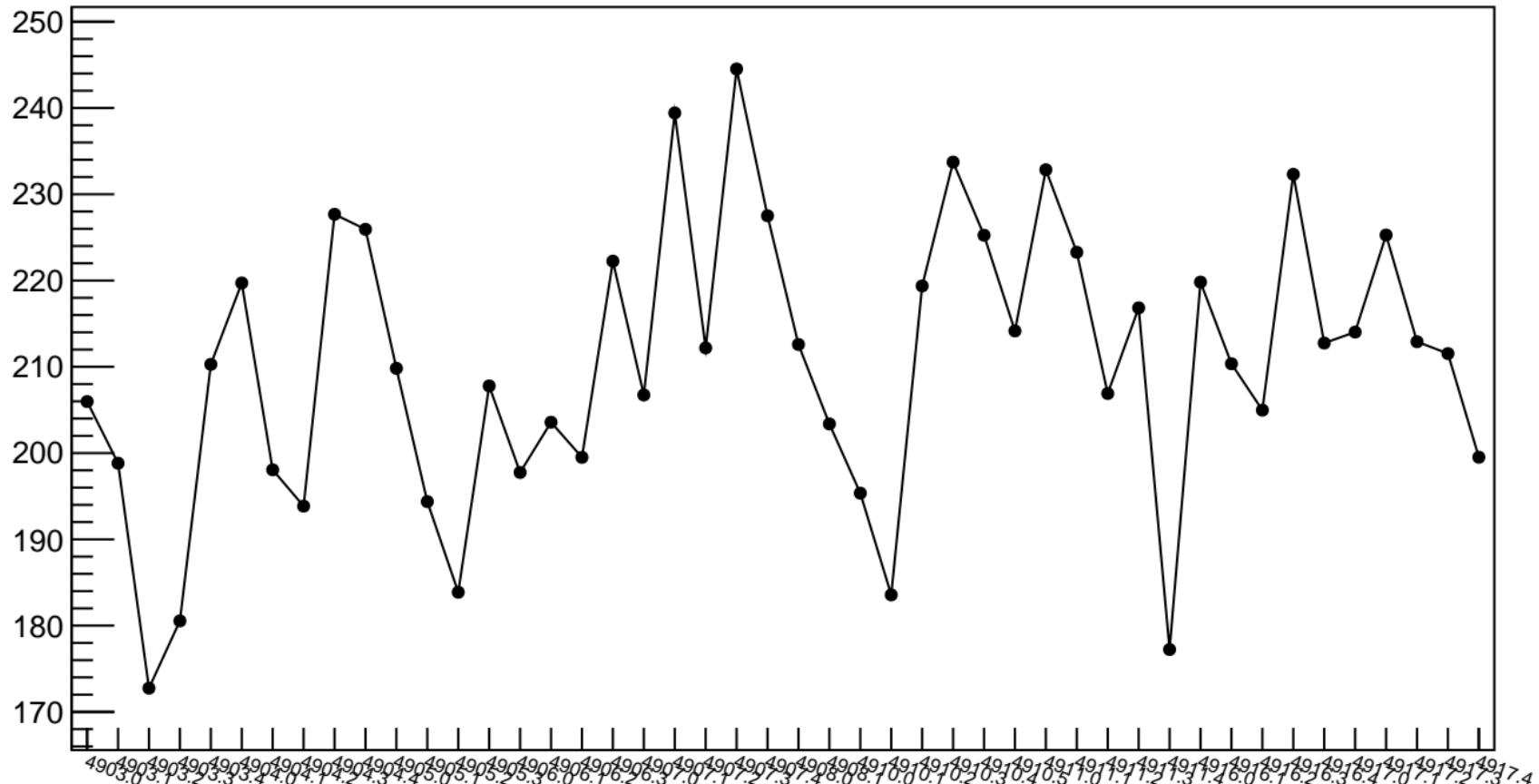


1D pull distribution



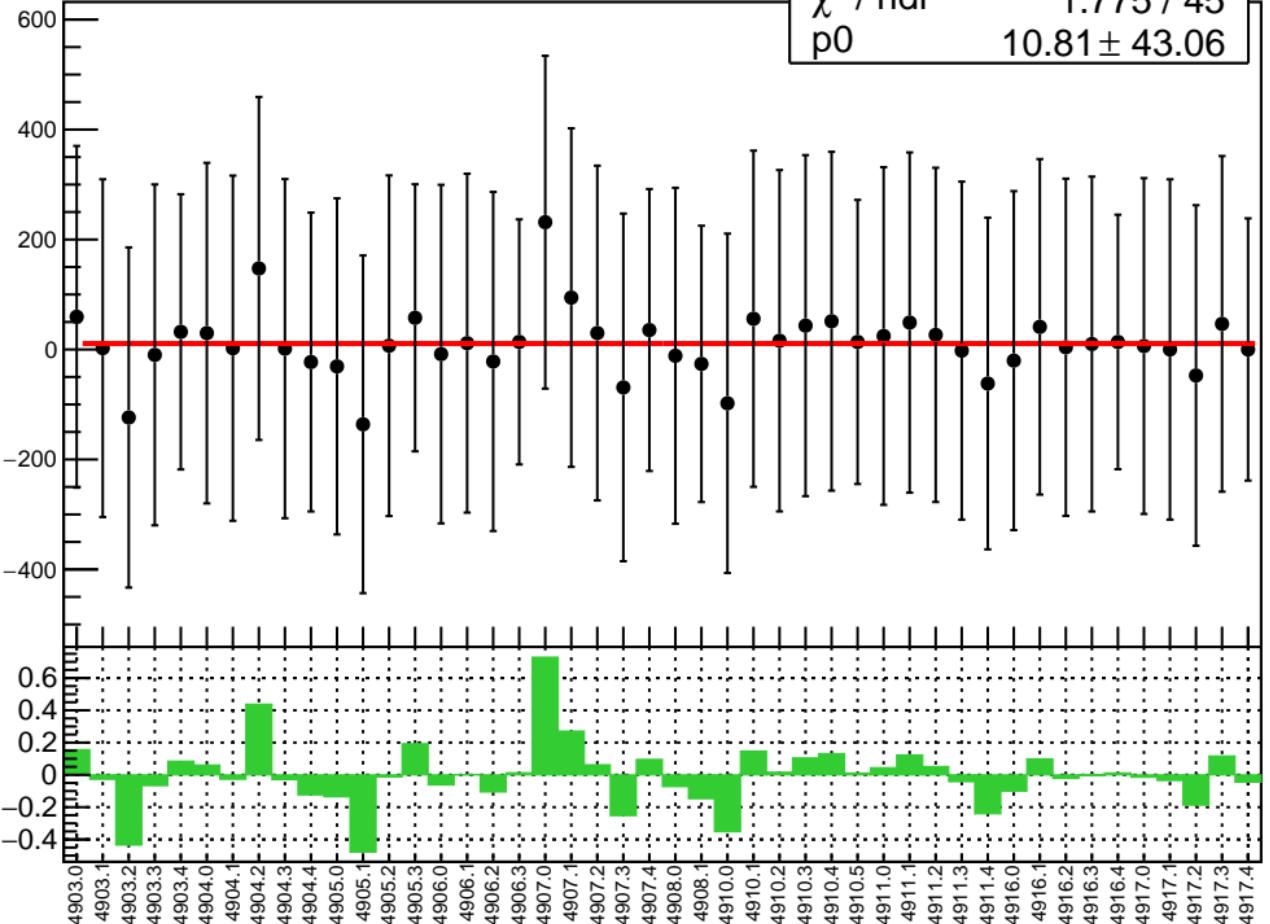
corr_usl_bpm4eX RMS (ppm)

RMS (ppm)

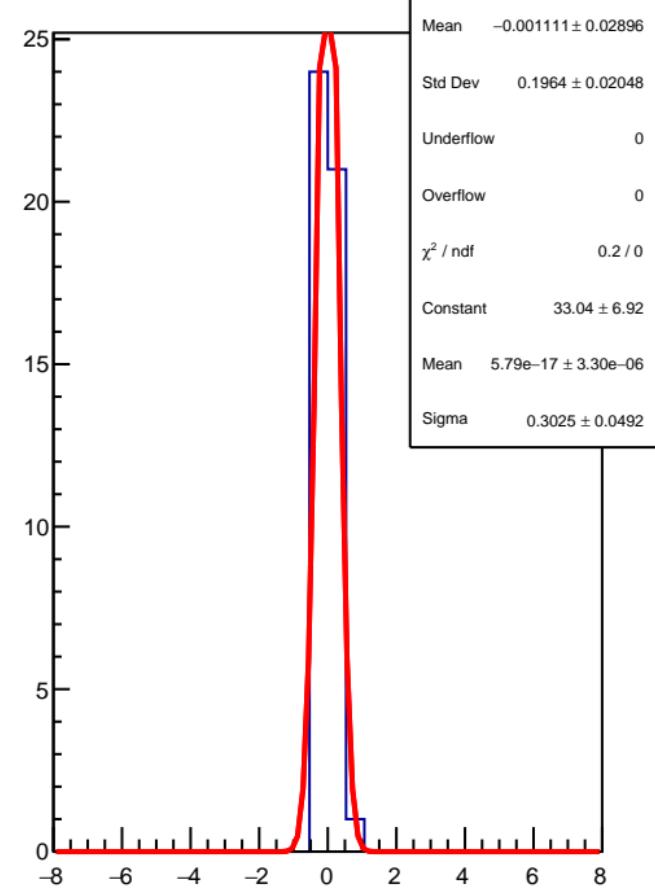


corr_usl_bpm4eY (ppb)

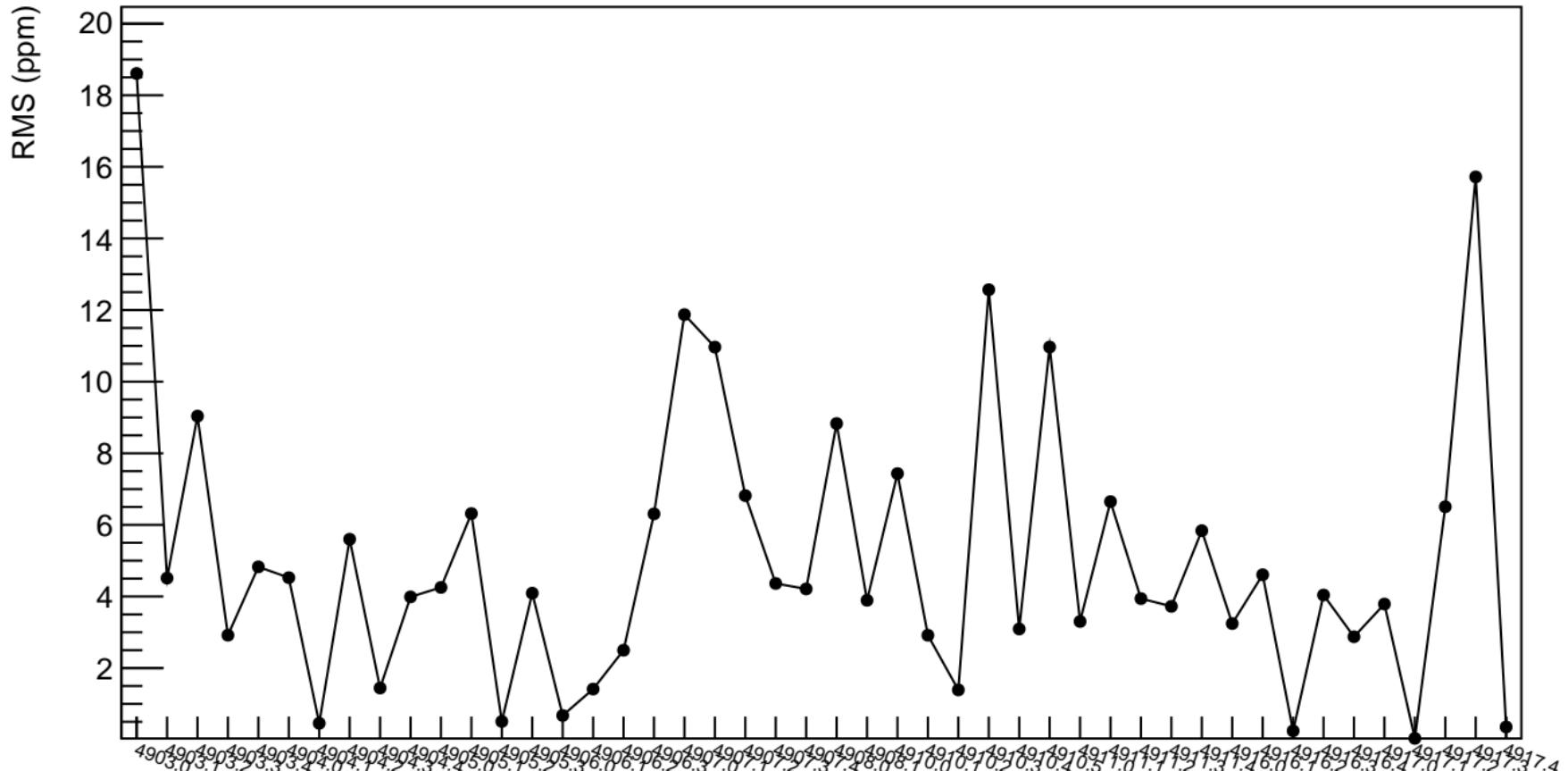
χ^2 / ndf 1.775 / 45
p0 10.81 ± 43.06



1D pull distribution

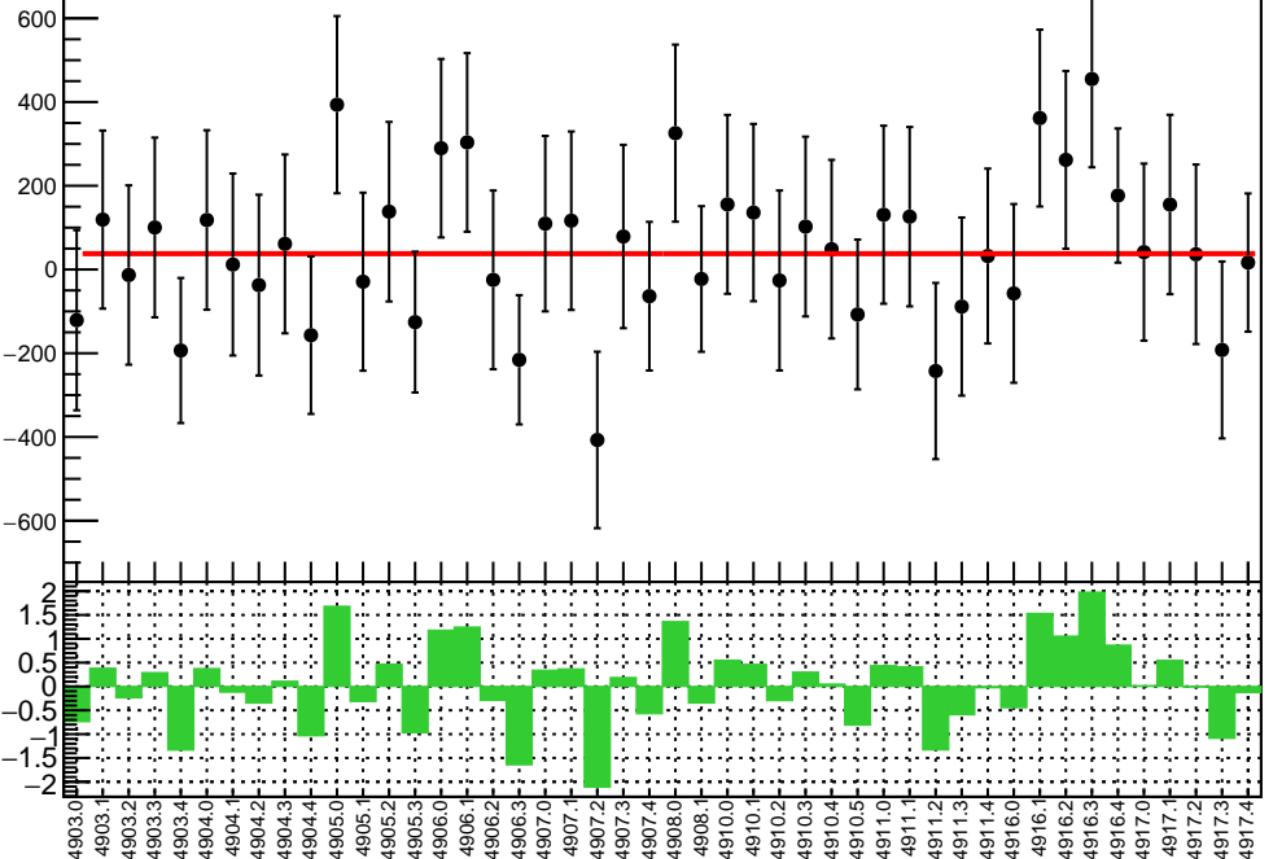


corr_usl_bpm4eY RMS (ppm)

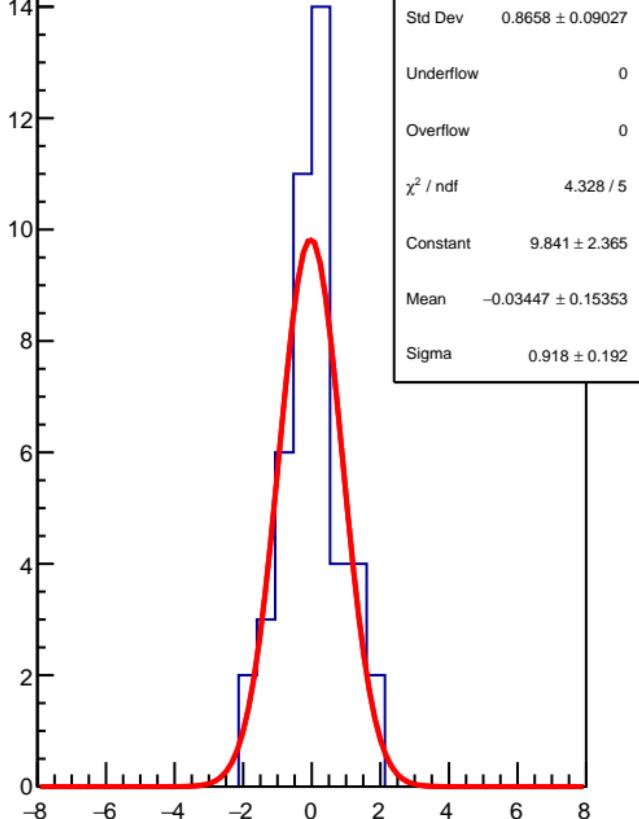


corr_usl_bpm4aX (ppb)

χ^2 / ndf 34.53 / 45
 p_0 37.83 ± 29.81

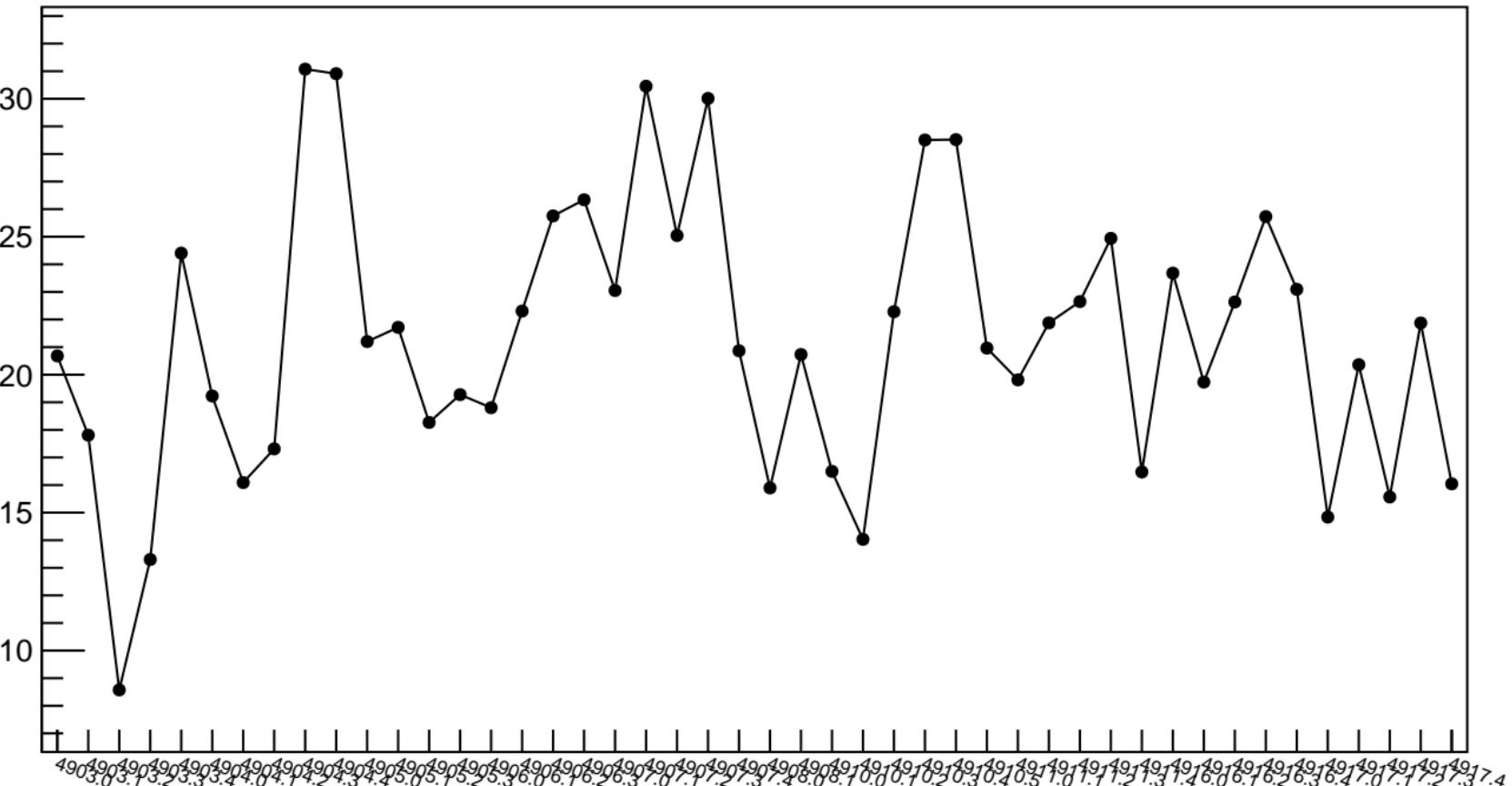


1D pull distribution

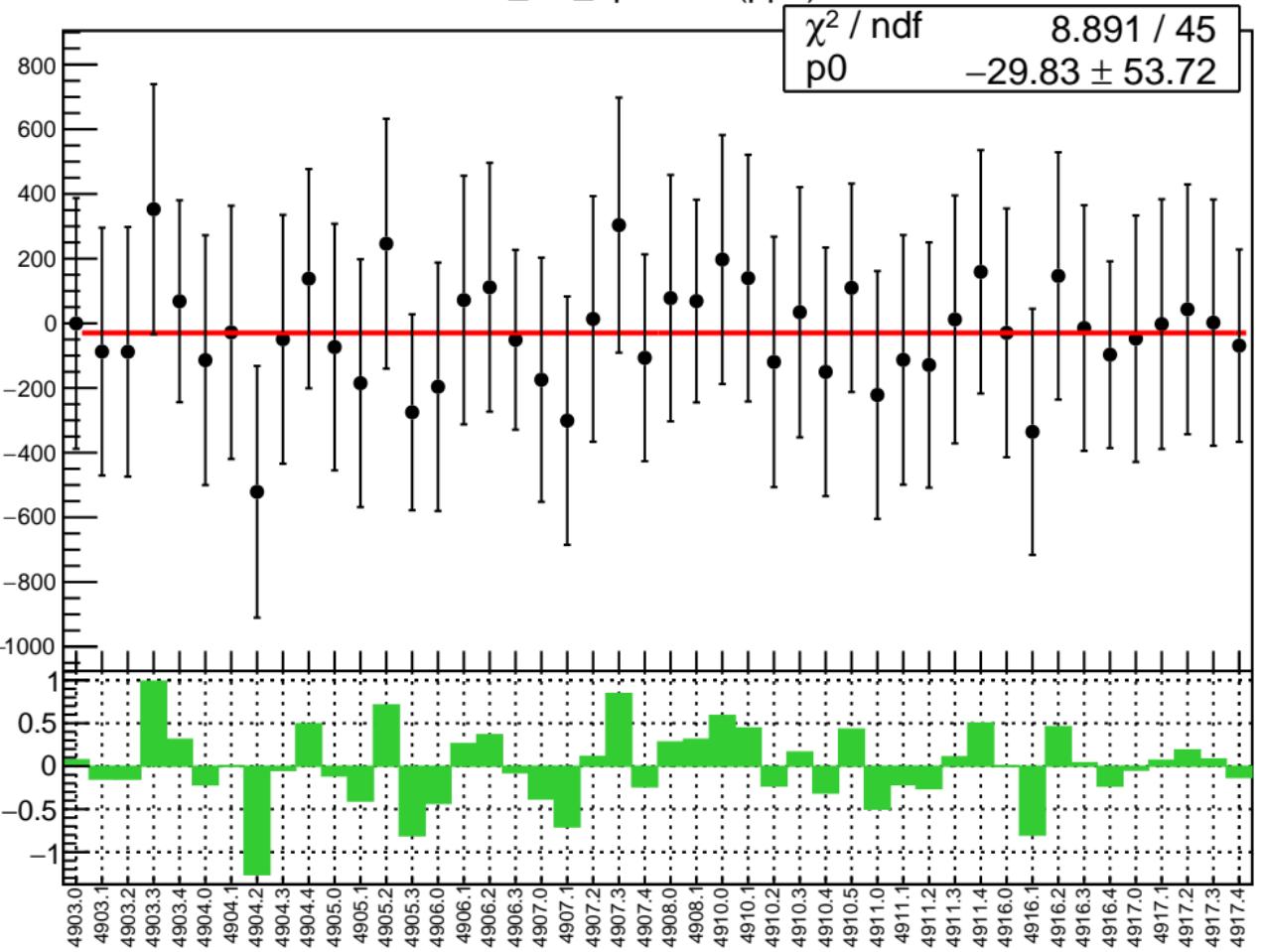


corr_usl_bpm4aX RMS (ppm)

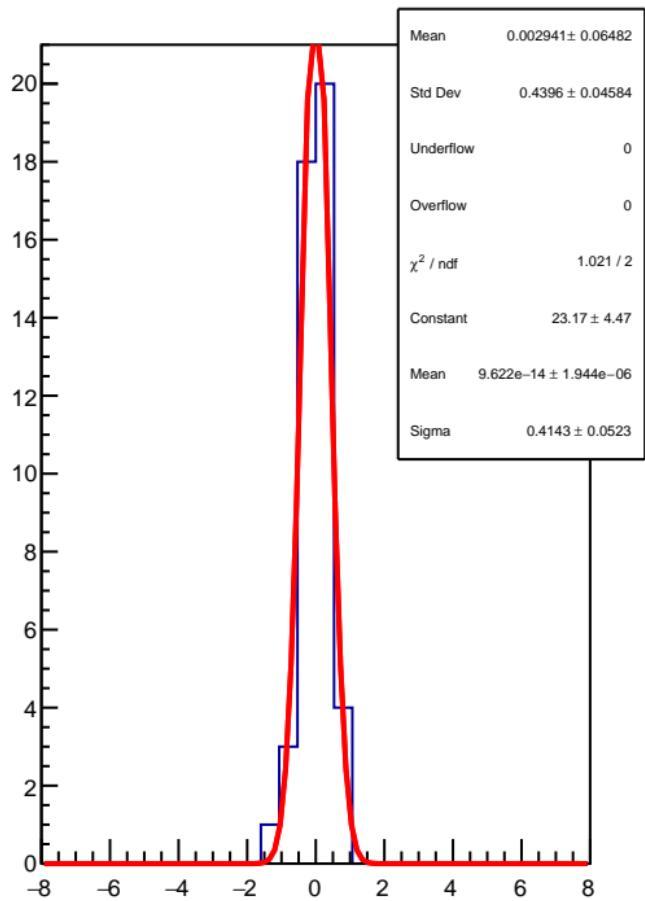
RMS (ppm)



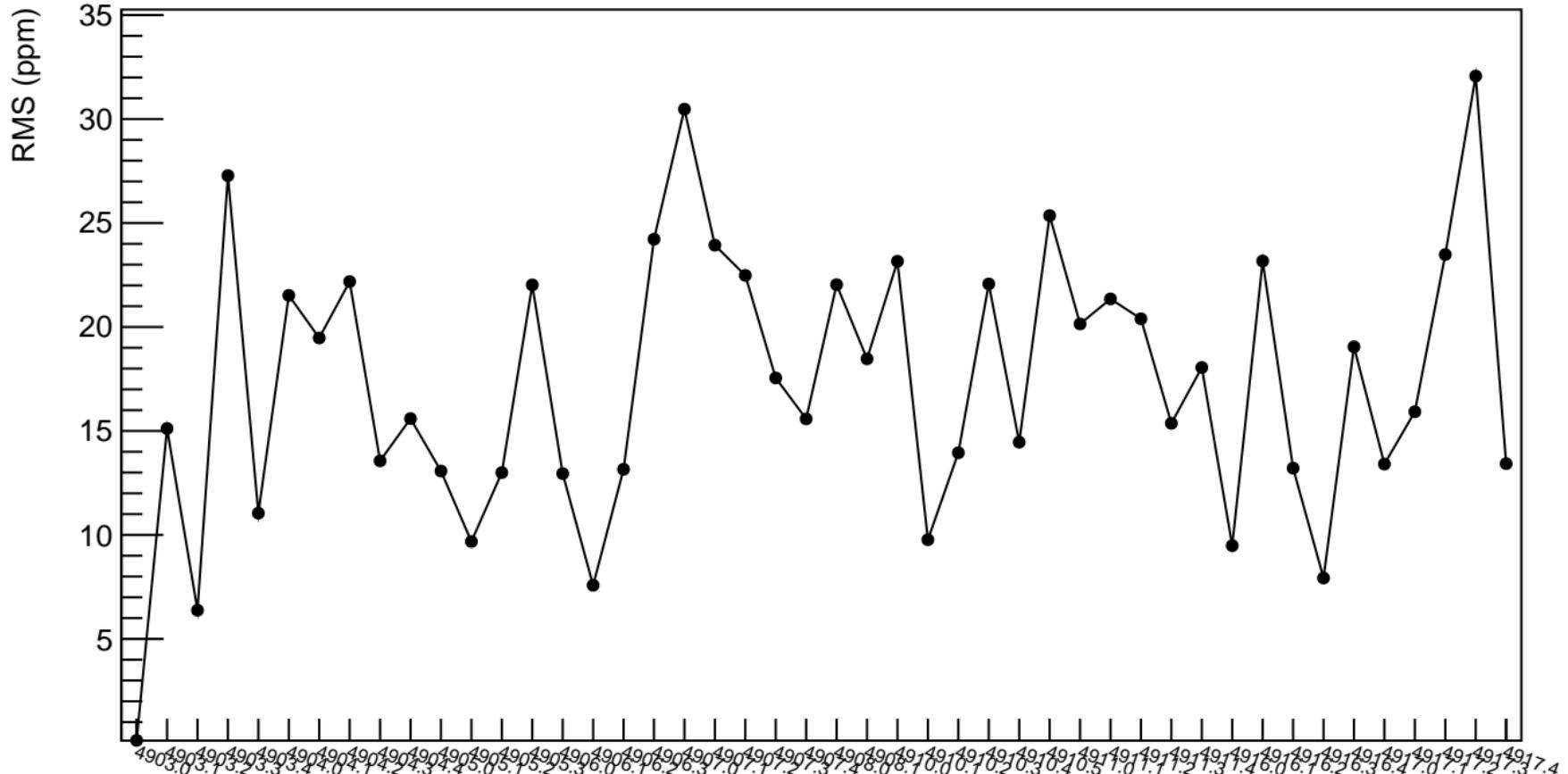
corr_usl_bpm4aY (ppb)



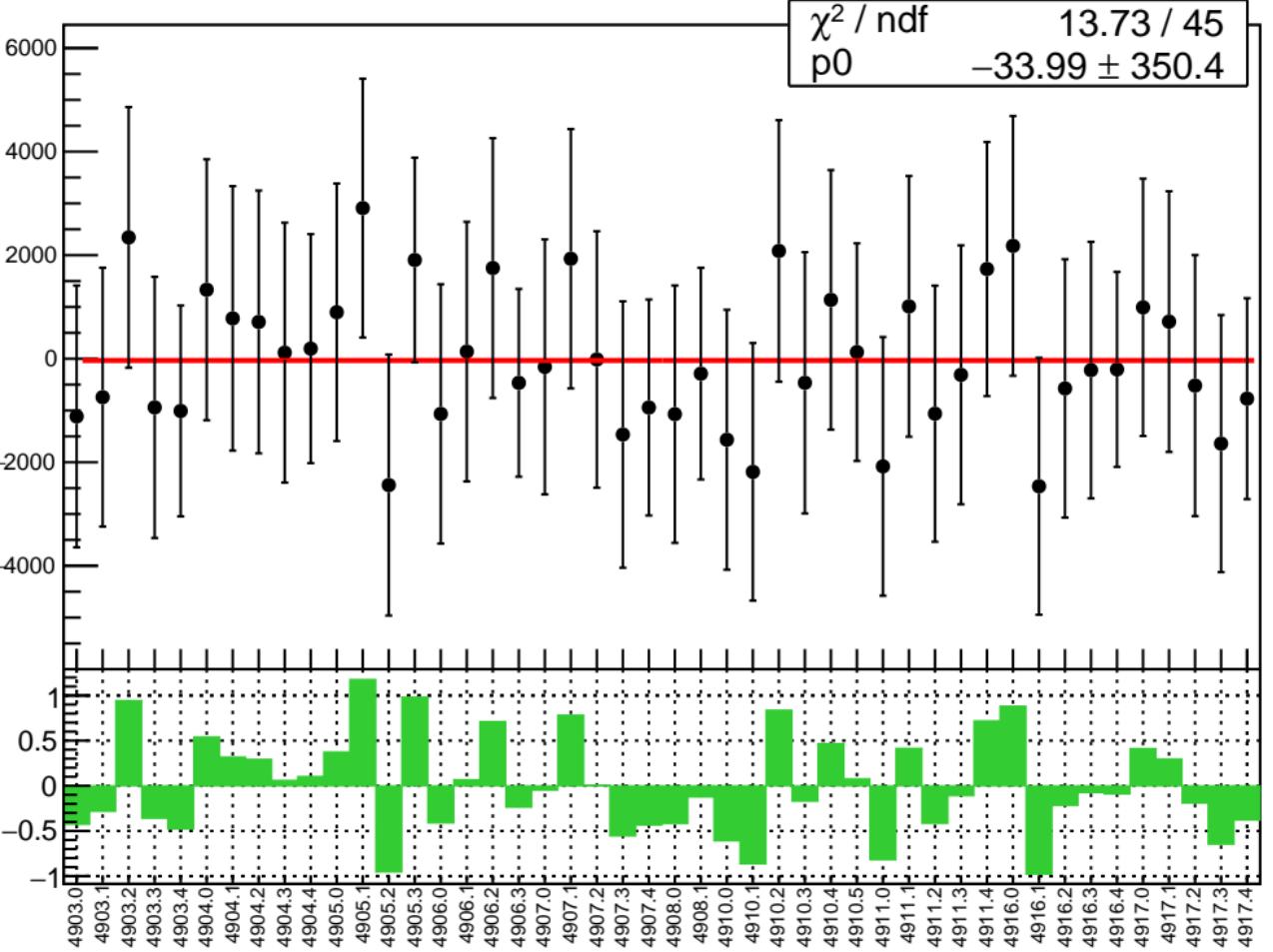
1D pull distribution



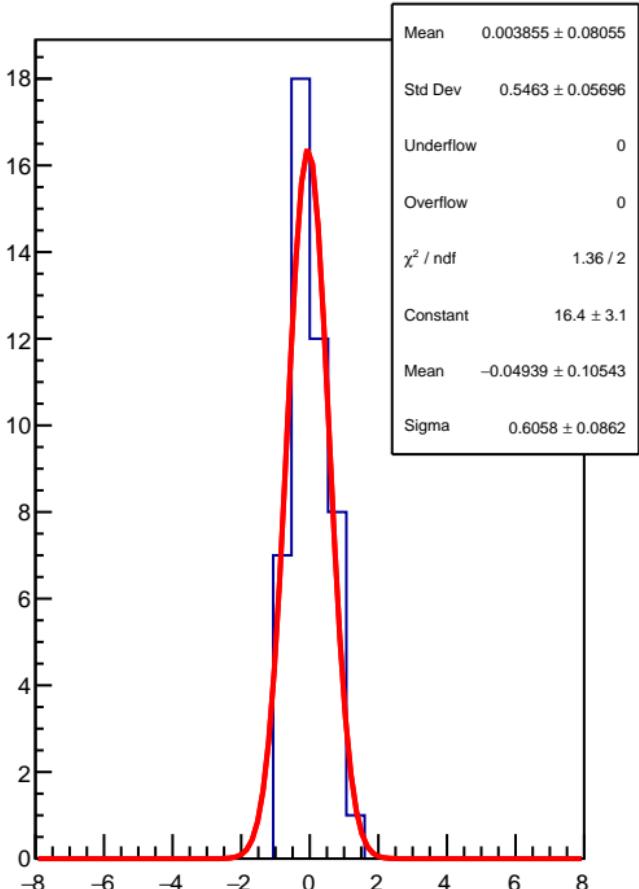
corr_usl_bpm4aY RMS (ppm)



corr_usl_bpm1X (ppb)

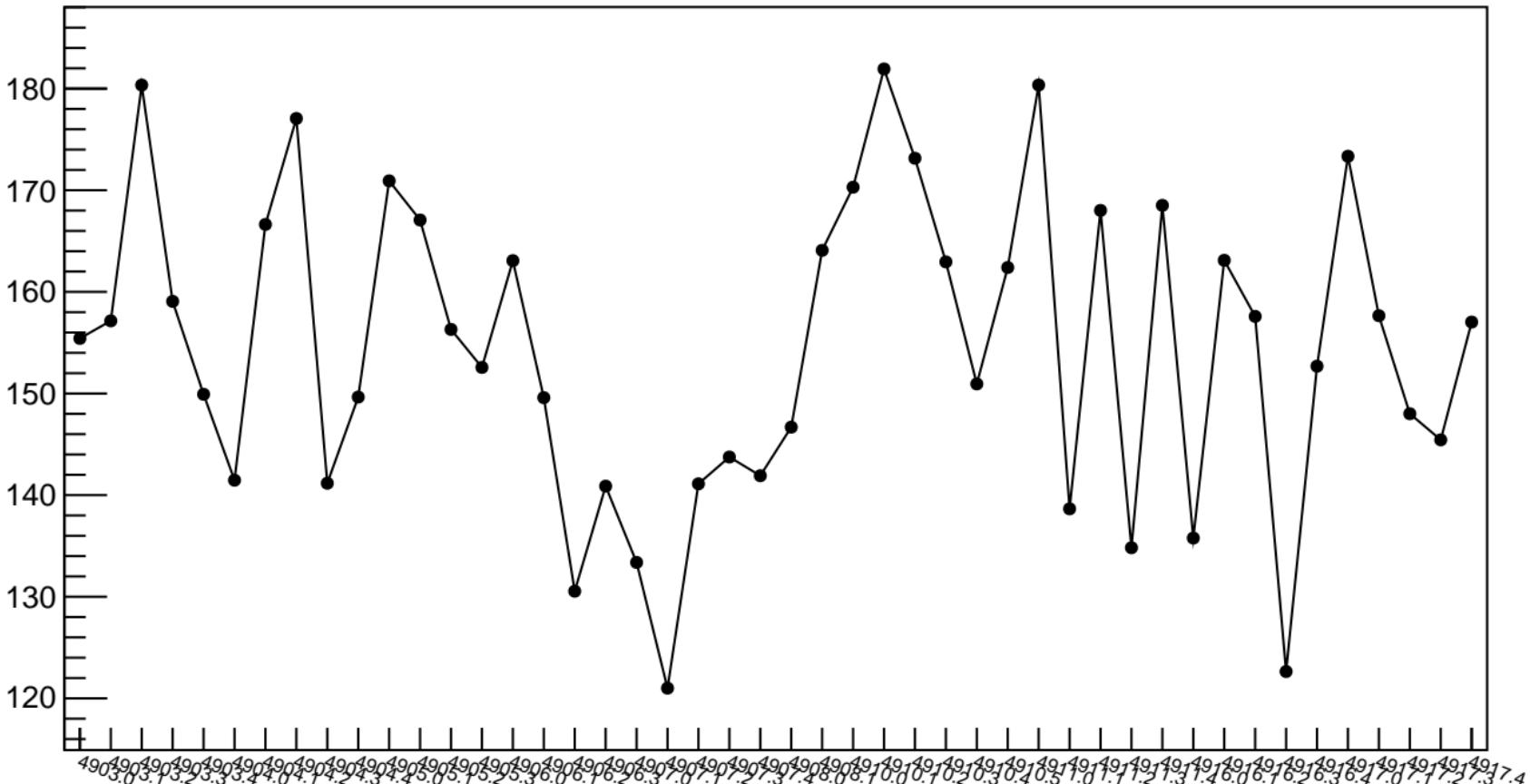


1D pull distribution

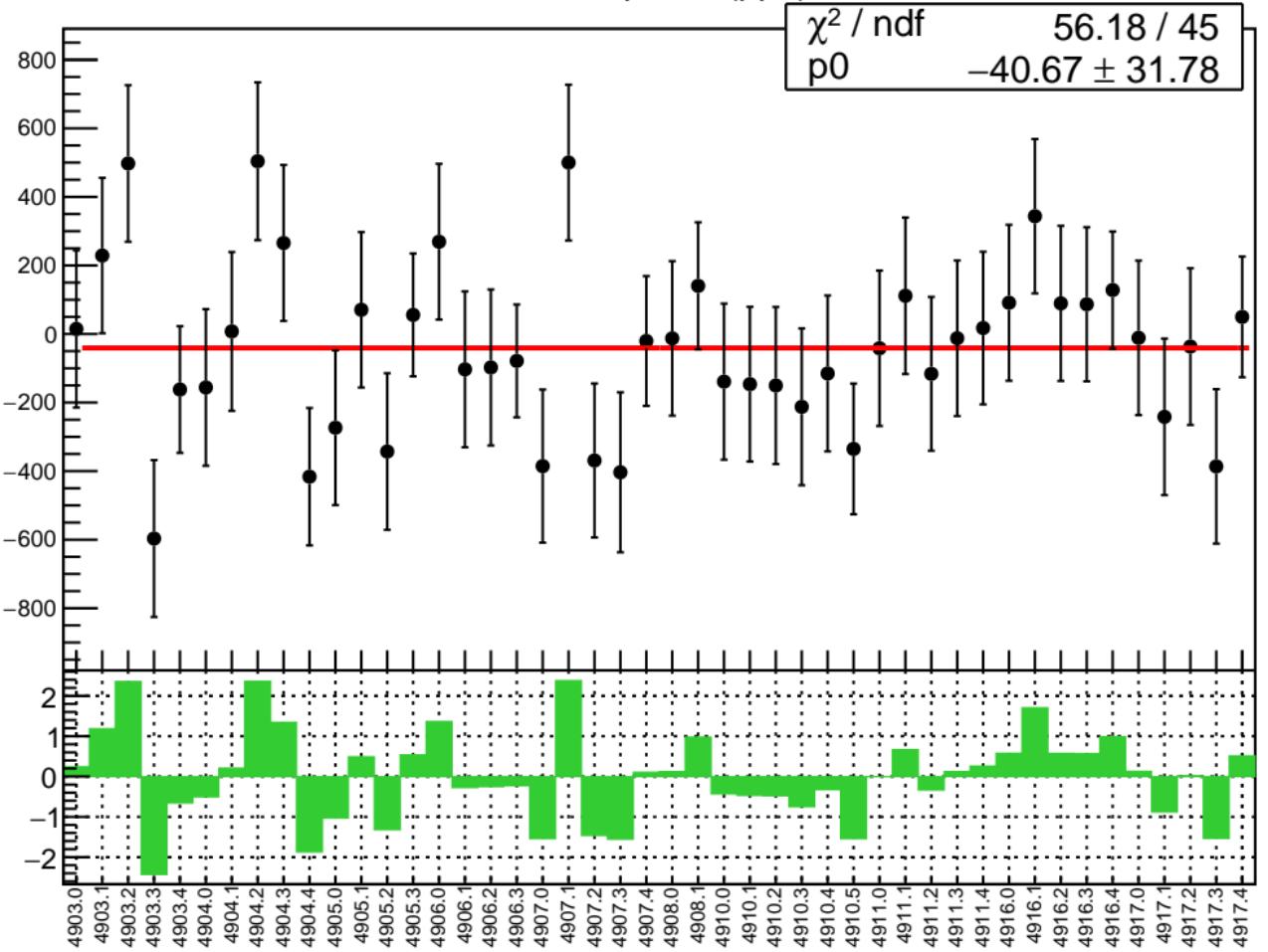


corr_usl_bpm1X RMS (ppm)

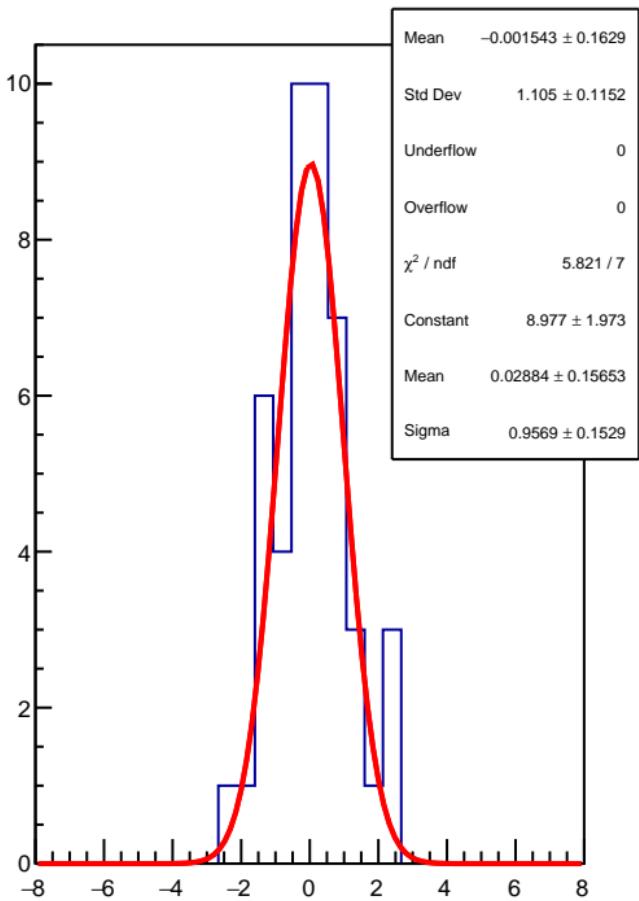
RMS (ppm)



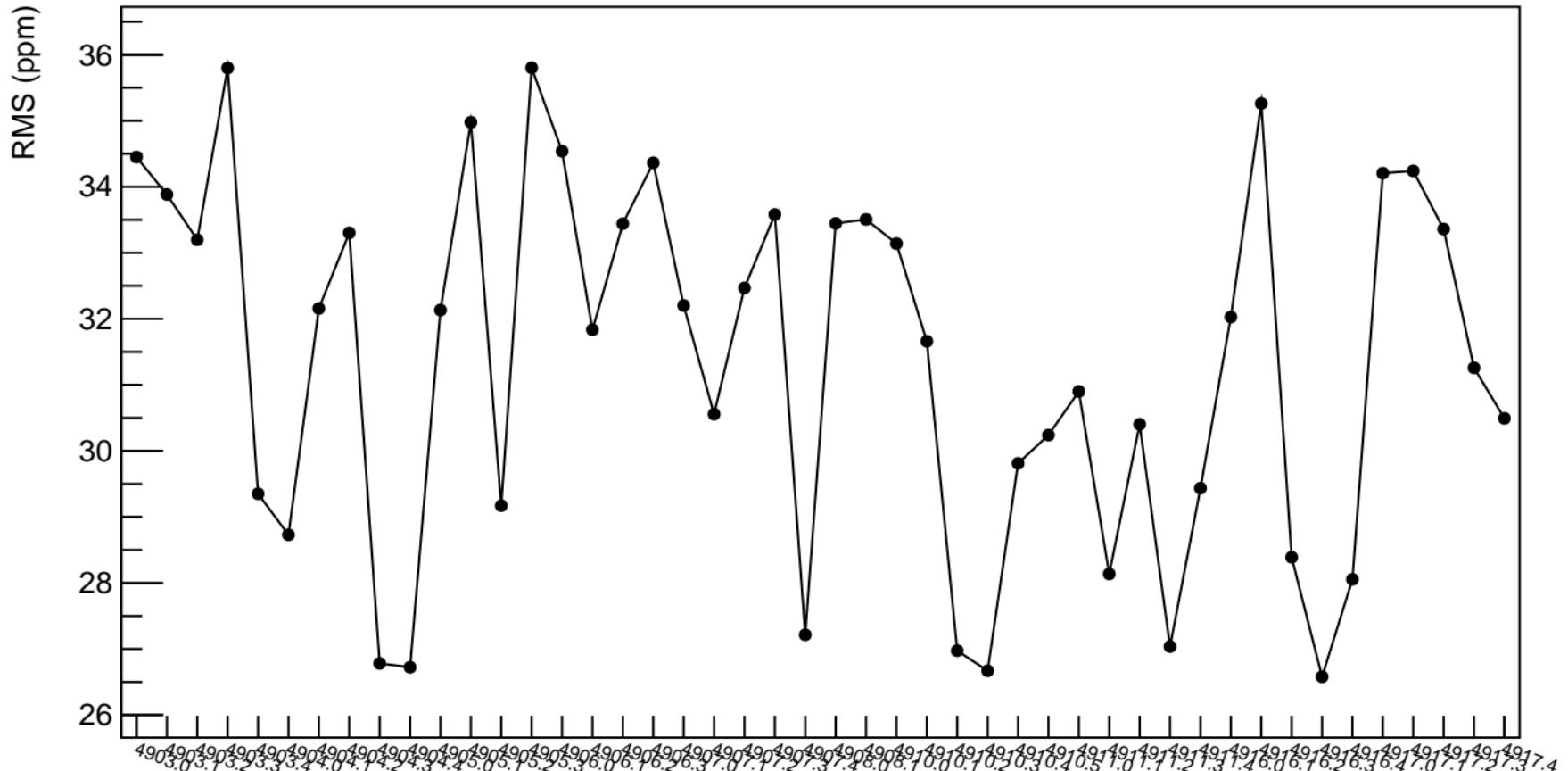
corr_usl_bpm1Y (ppb)



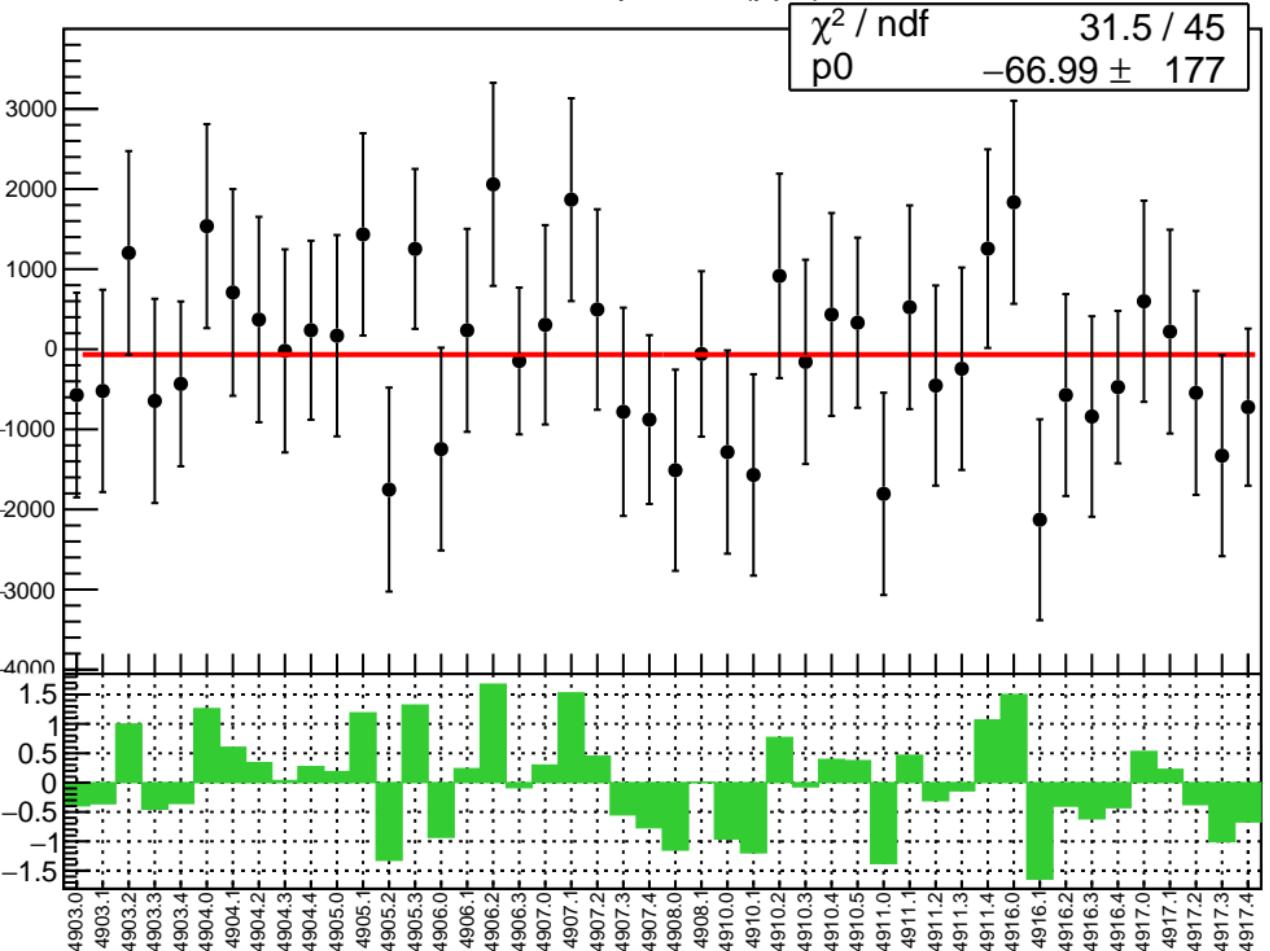
1D pull distribution



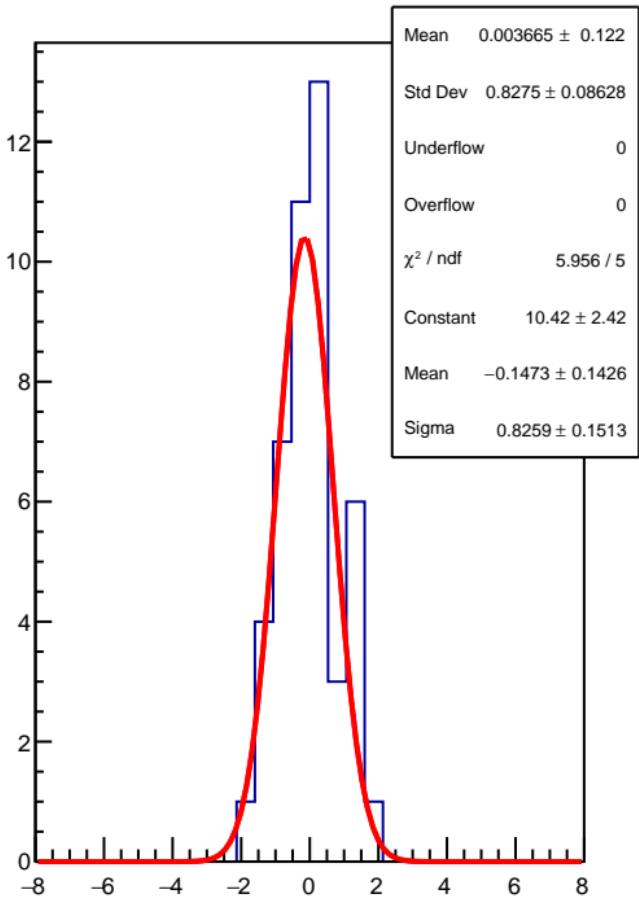
corr_usl_bpm1Y RMS (ppm)



corr_usl_bpm16X (ppb)

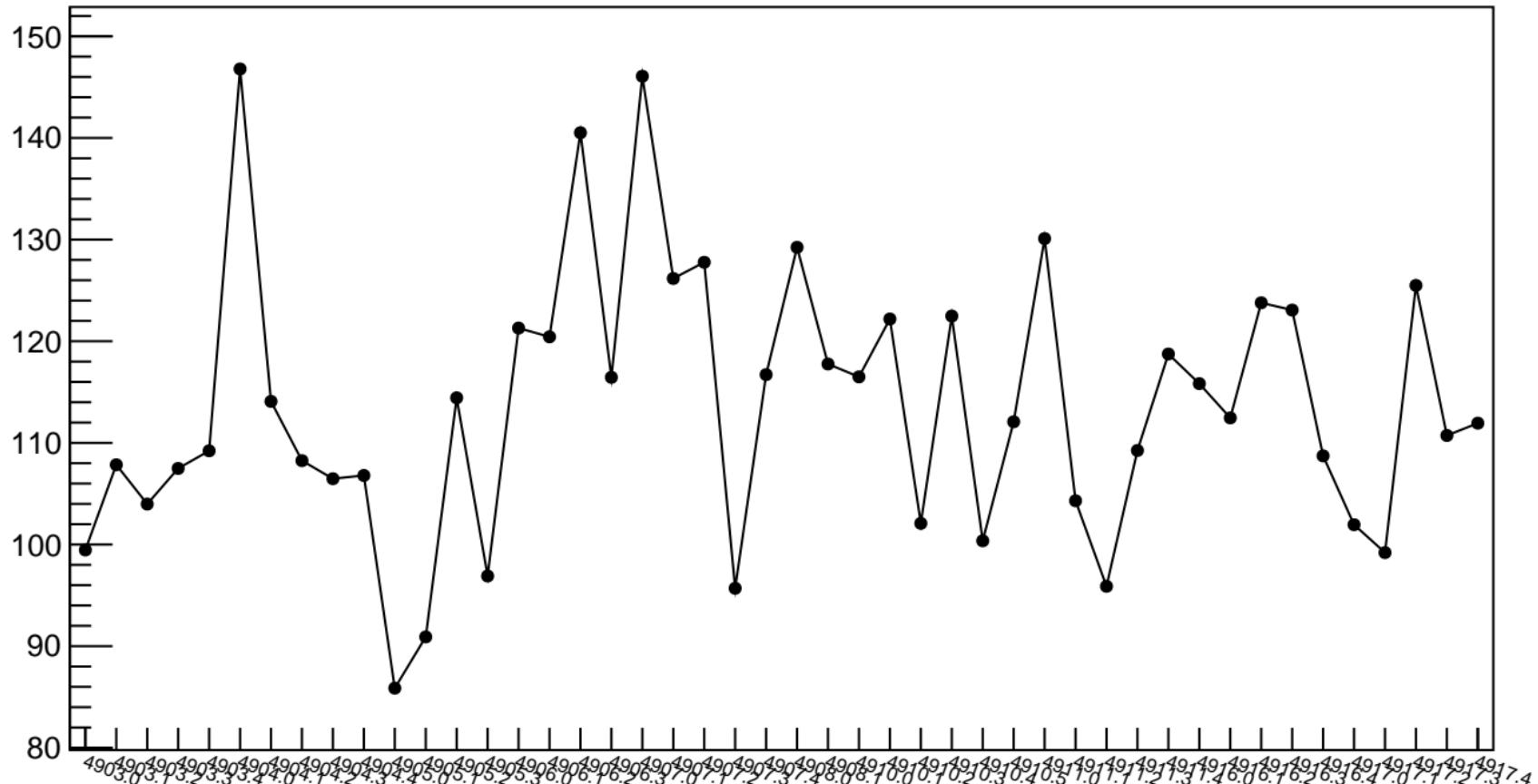


1D pull distribution

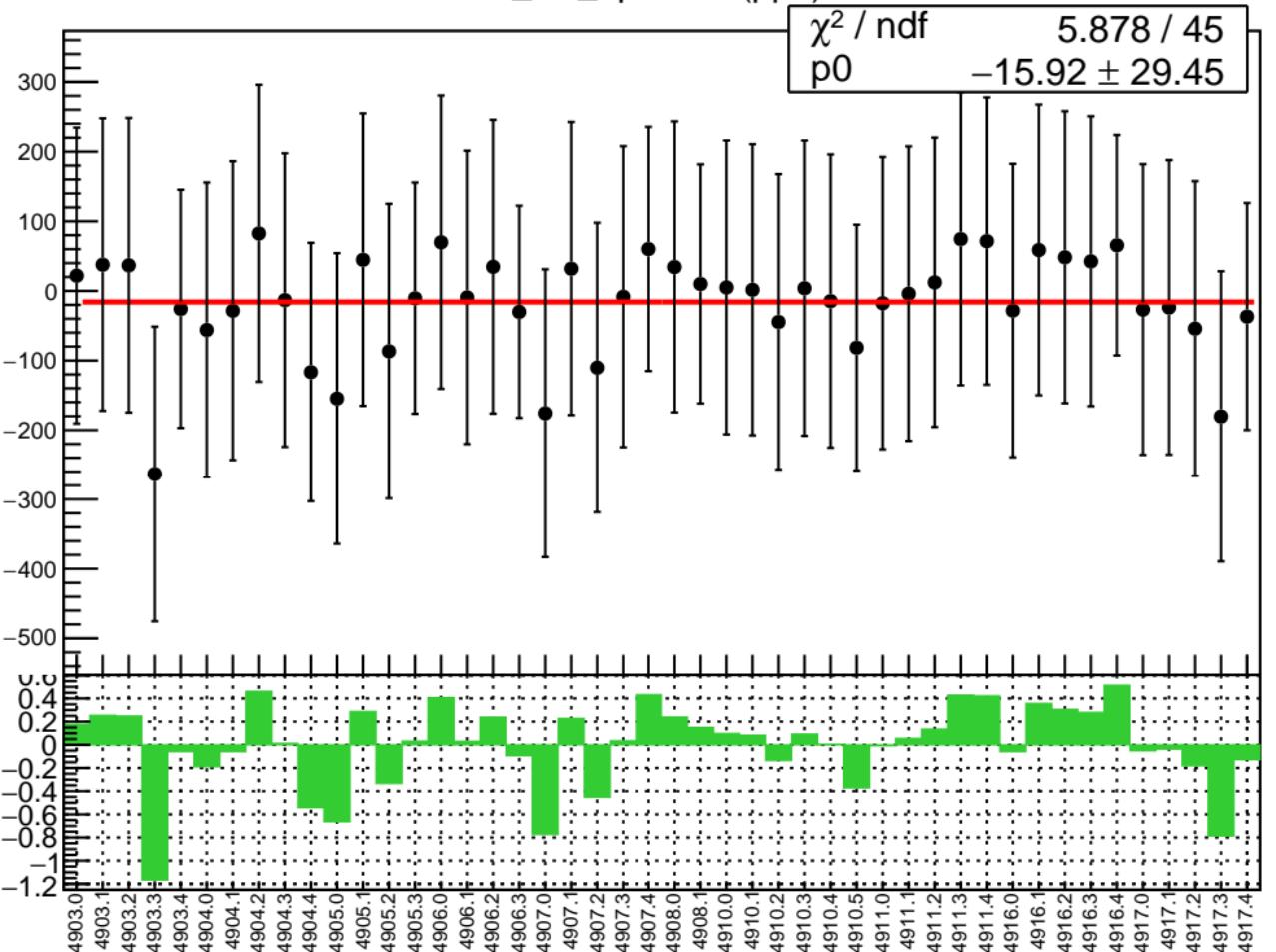


corr_usl_bpm16X RMS (ppm)

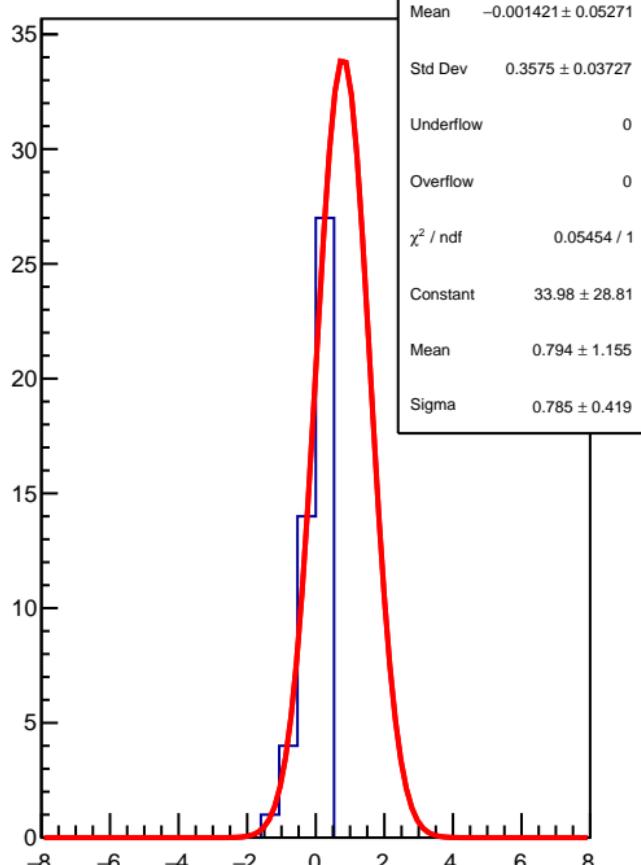
RMS (ppm)



corr_usl_bpm16Y (ppb)

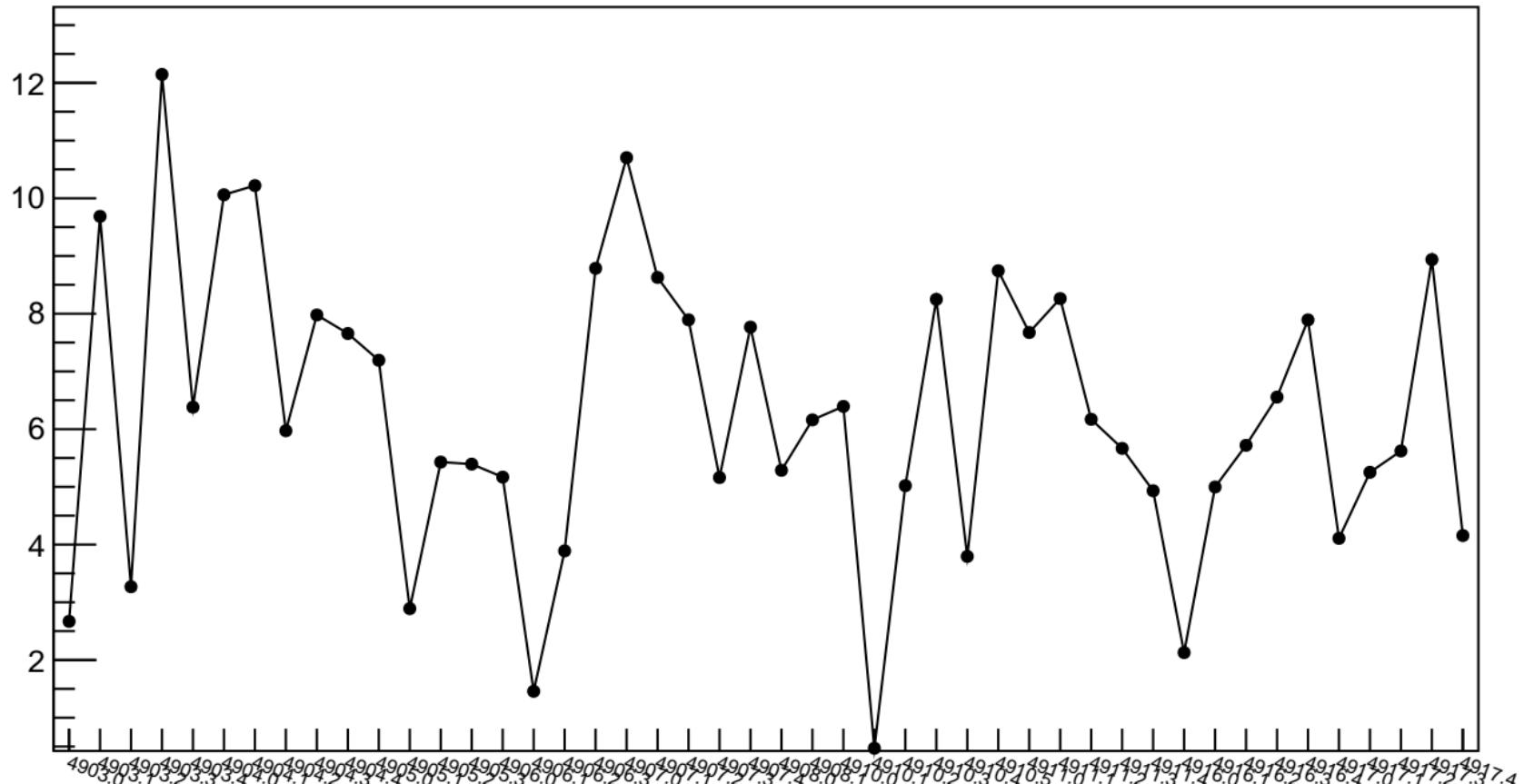


1D pull distribution



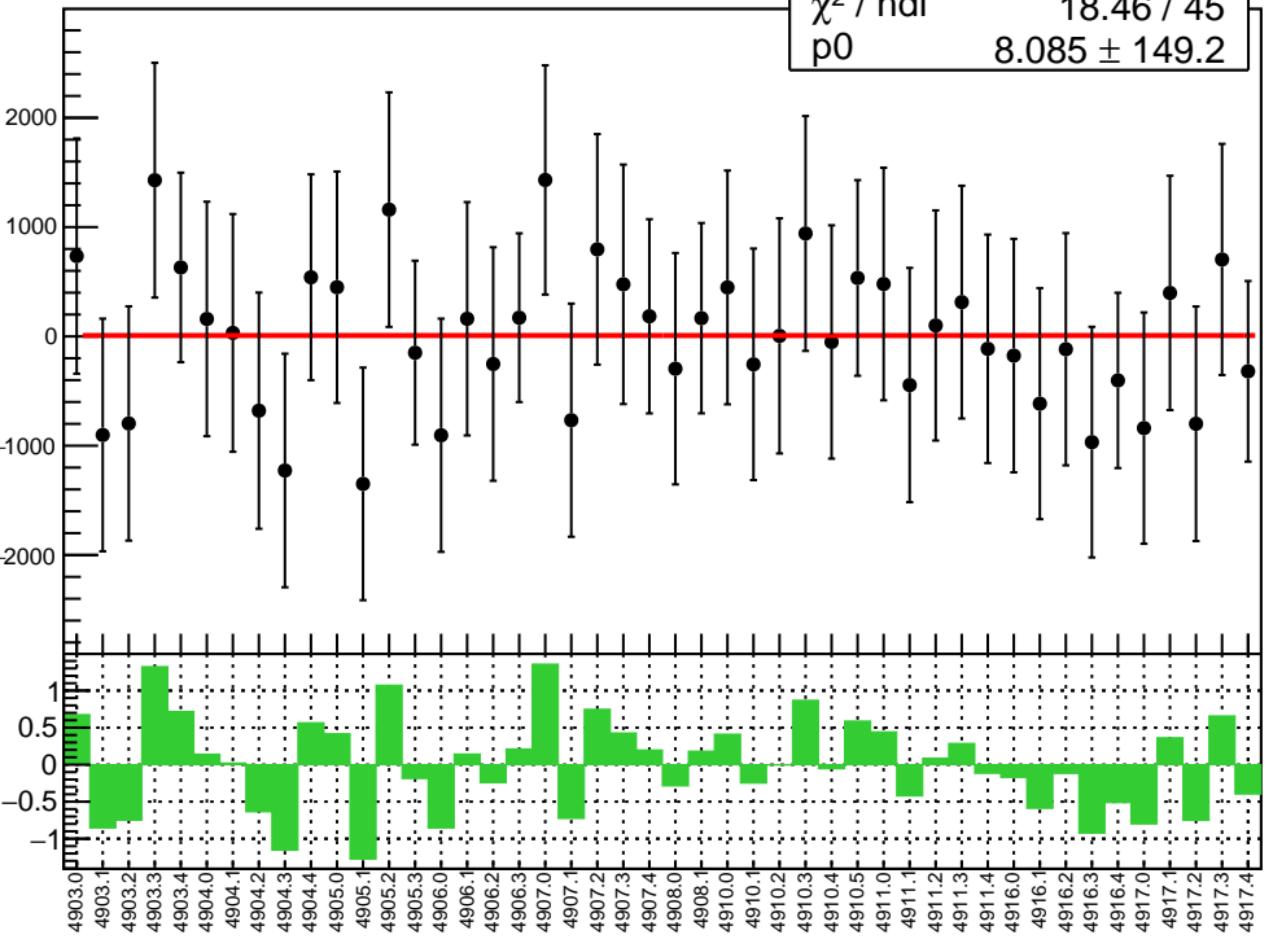
corr_usl_bpm16Y RMS (ppm)

RMS (ppm)

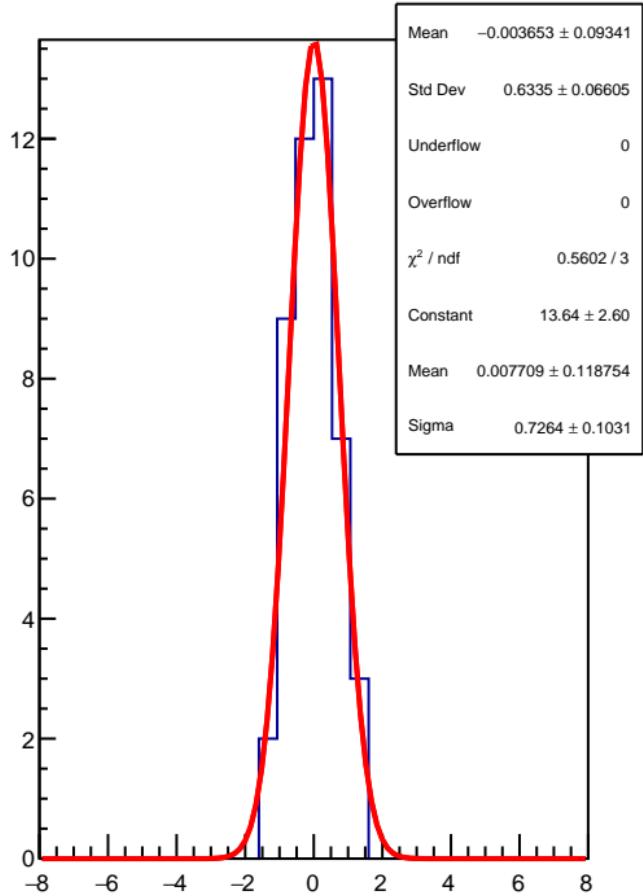


corr_usl_bpm12X (ppb)

χ^2 / ndf 18.46 / 45
p0 8.085 ± 149.2

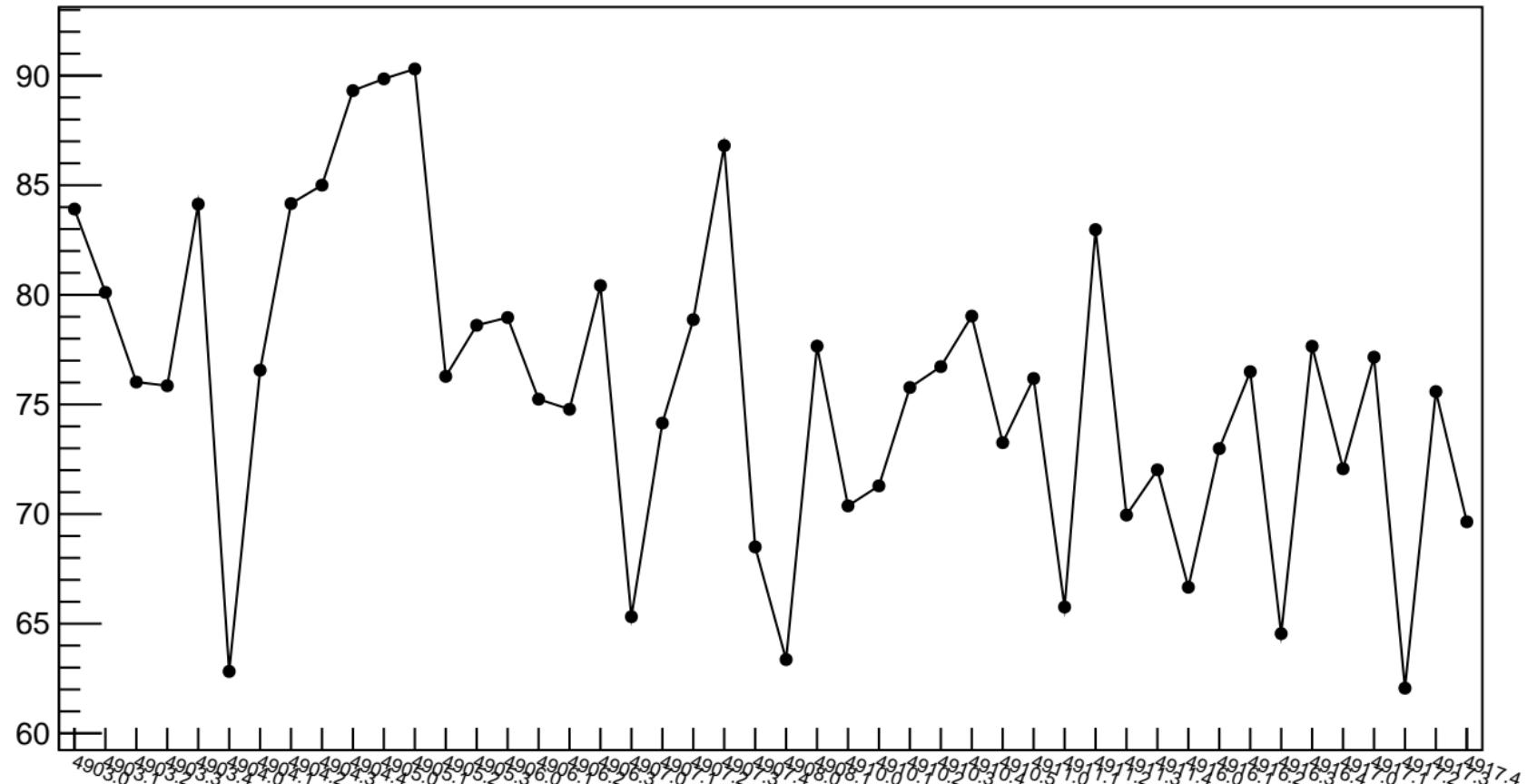


1D pull distribution

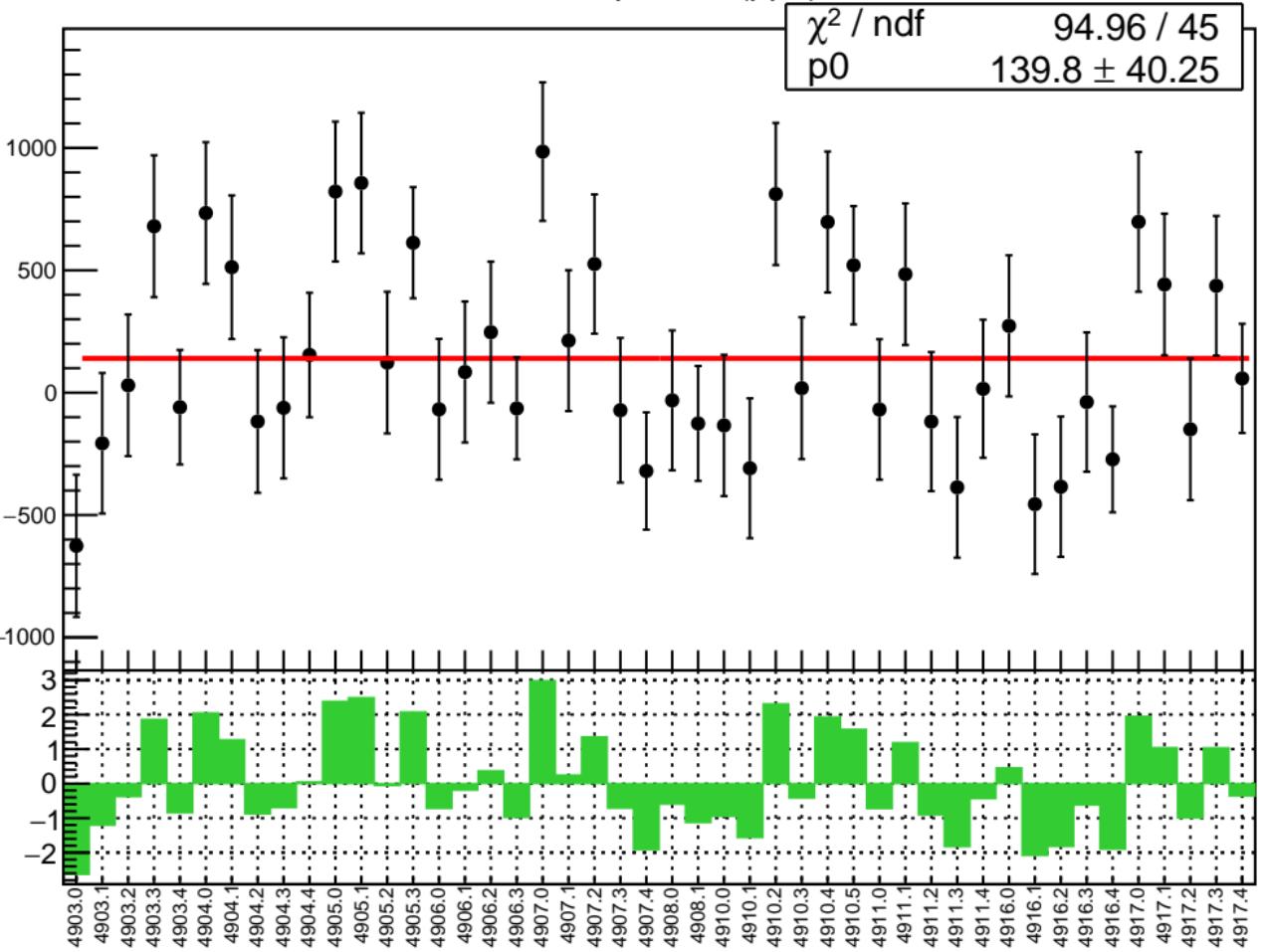


corr_usl_bpm12X RMS (ppm)

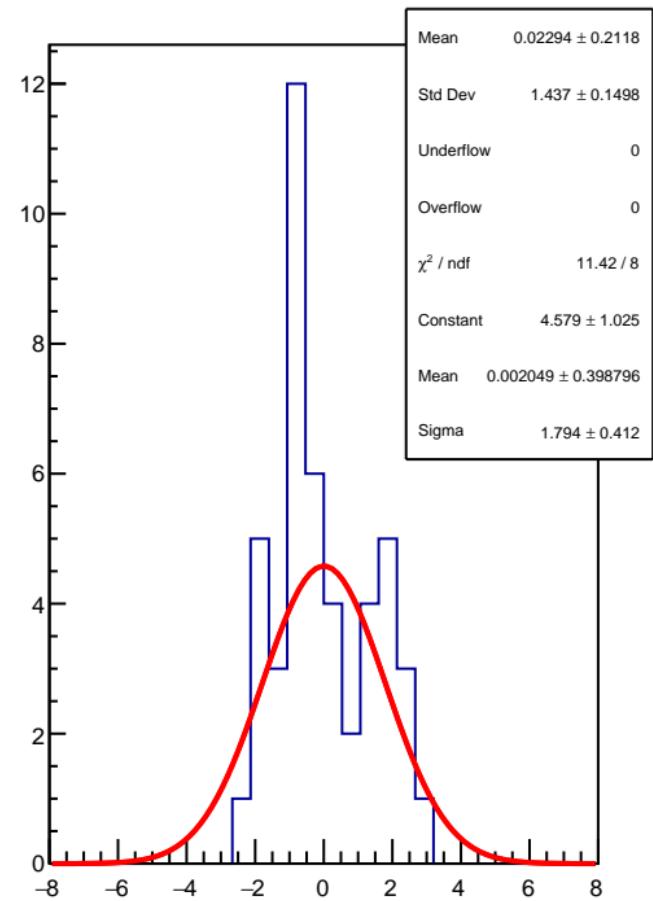
RMS (ppm)



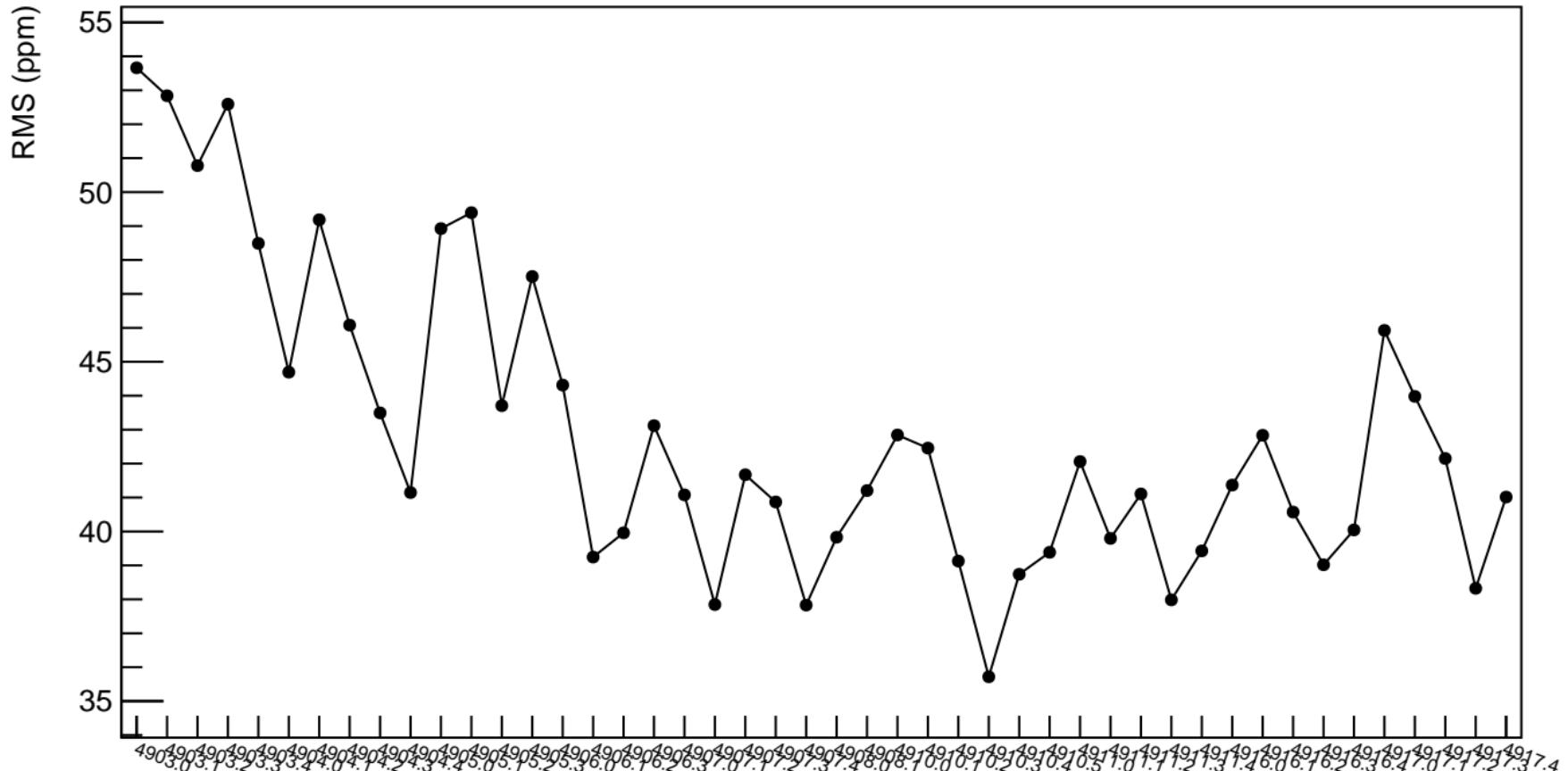
corr_usl_bpm12Y (ppb)



1D pull distribution

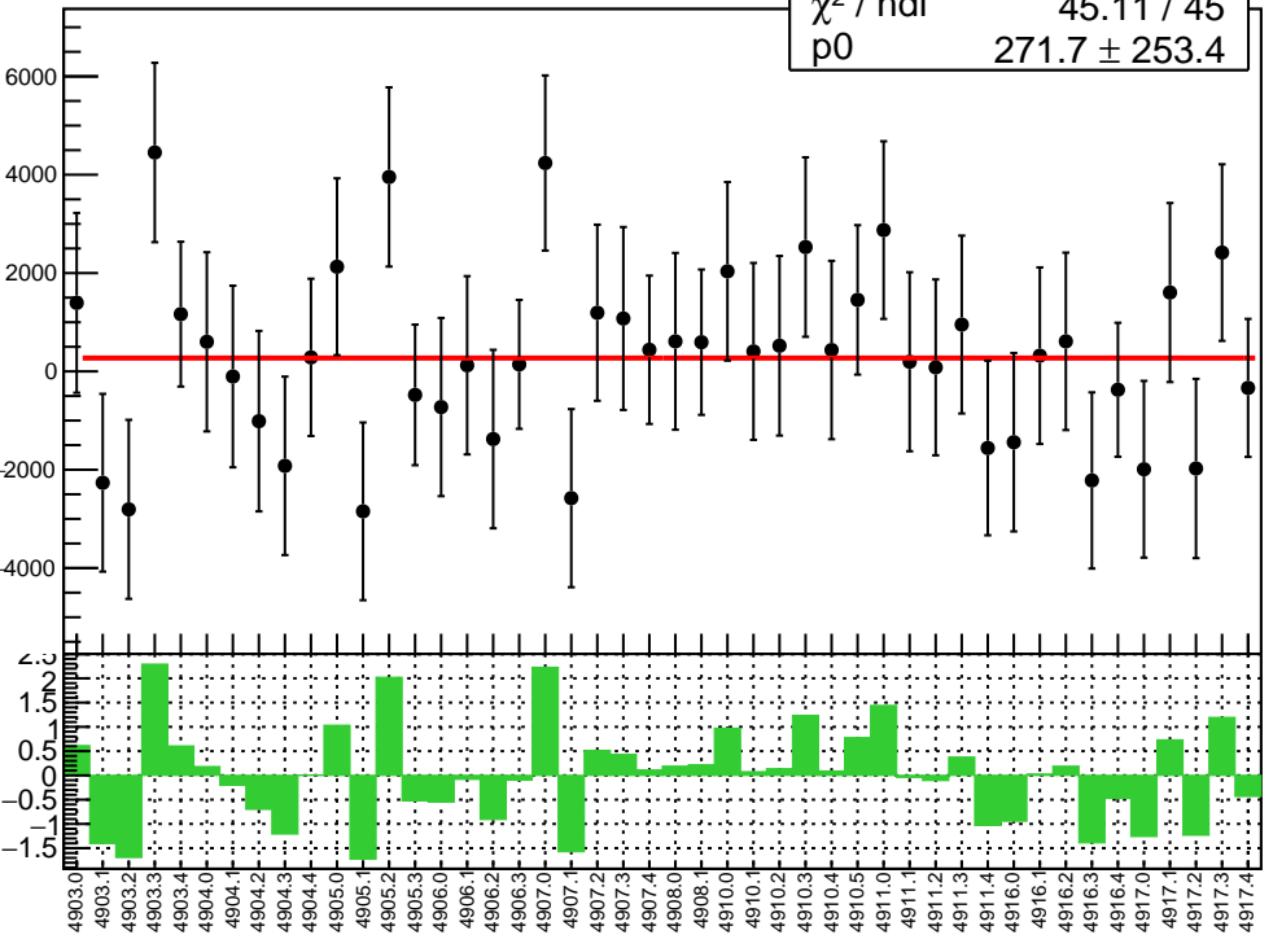


corr_usl_bpm12Y RMS (ppm)

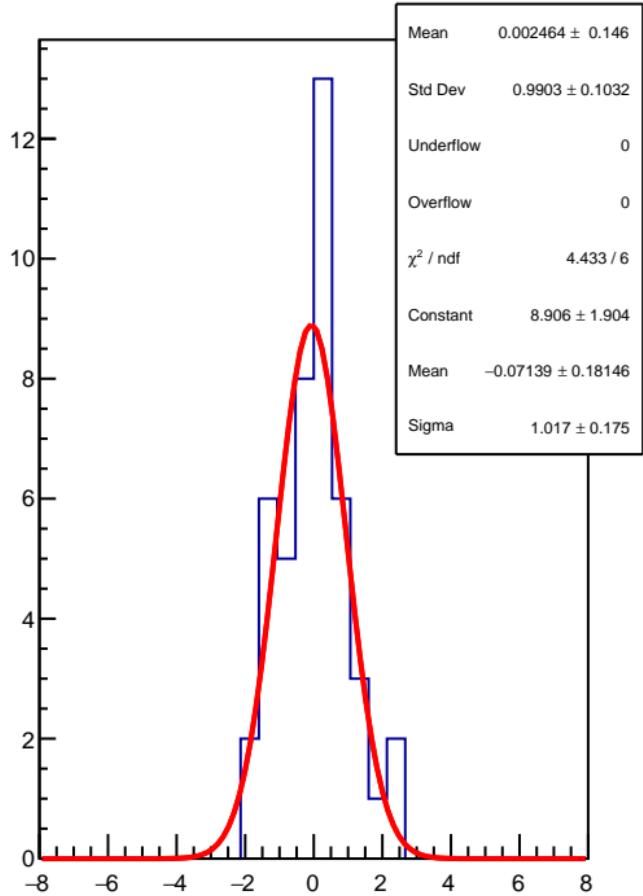


corr_usl_bpm11X (ppb)

χ^2 / ndf 45.11 / 45
p0 271.7 ± 253.4

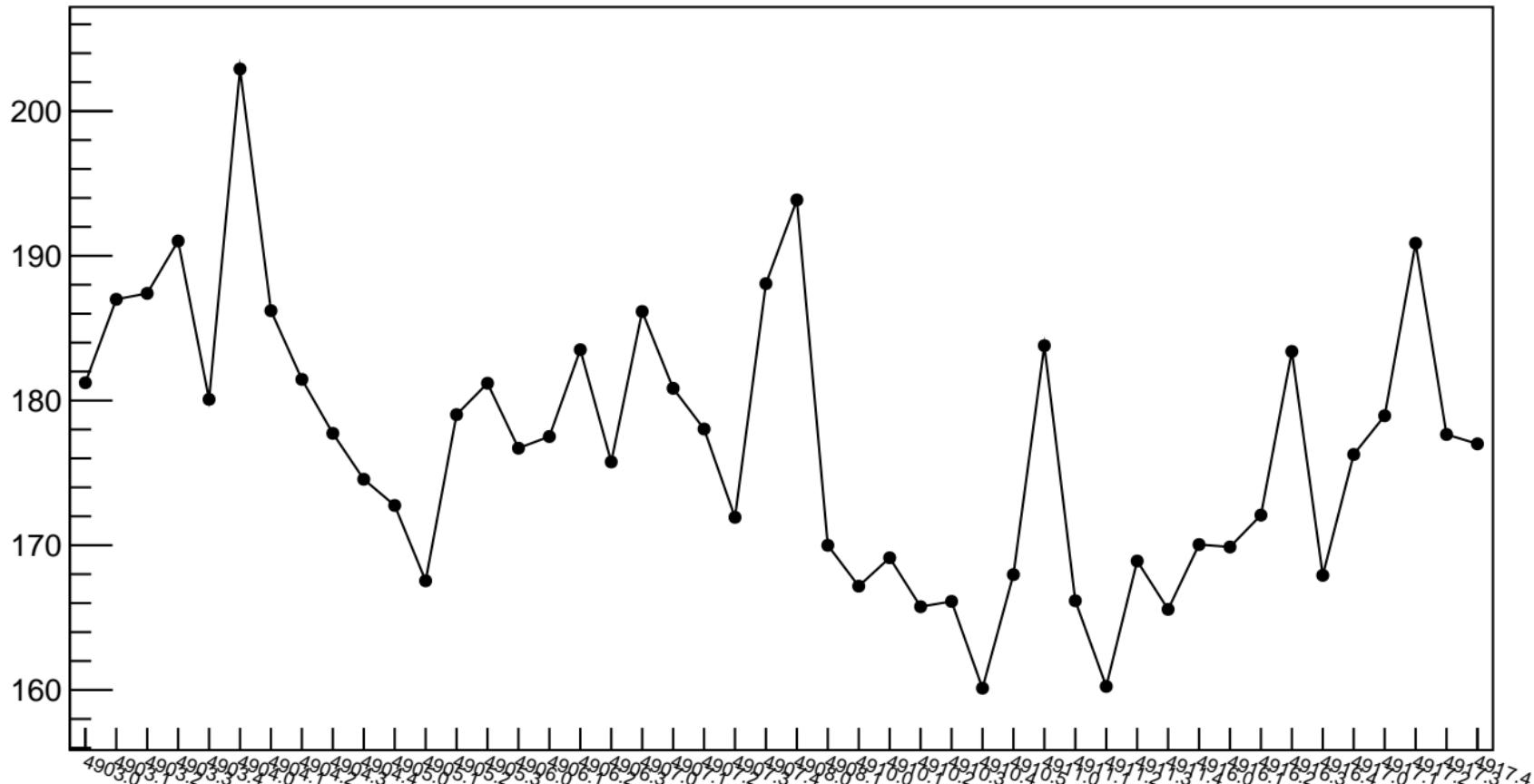


1D pull distribution



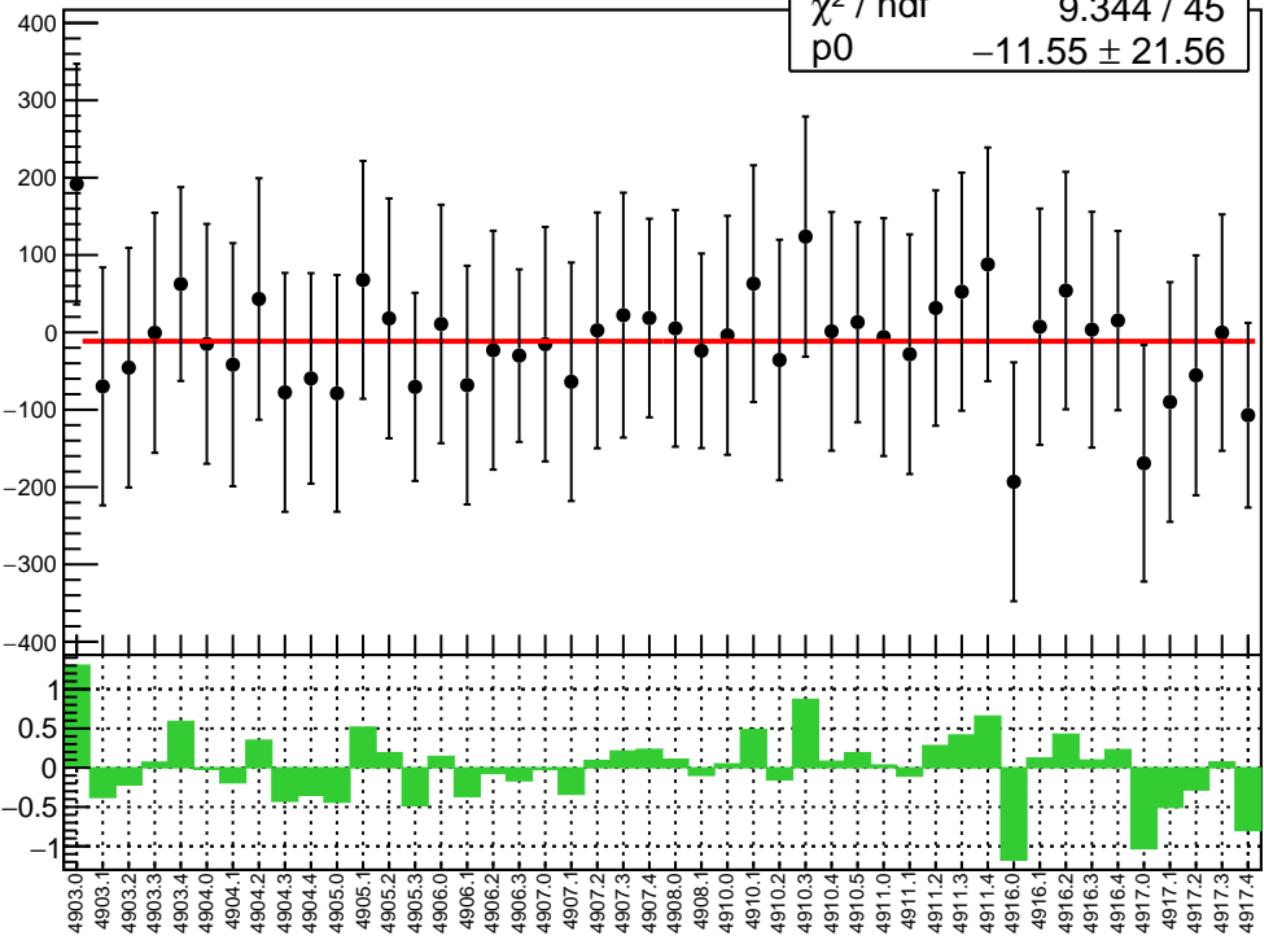
corr_usl_bpm11X RMS (ppm)

RMS (ppm)

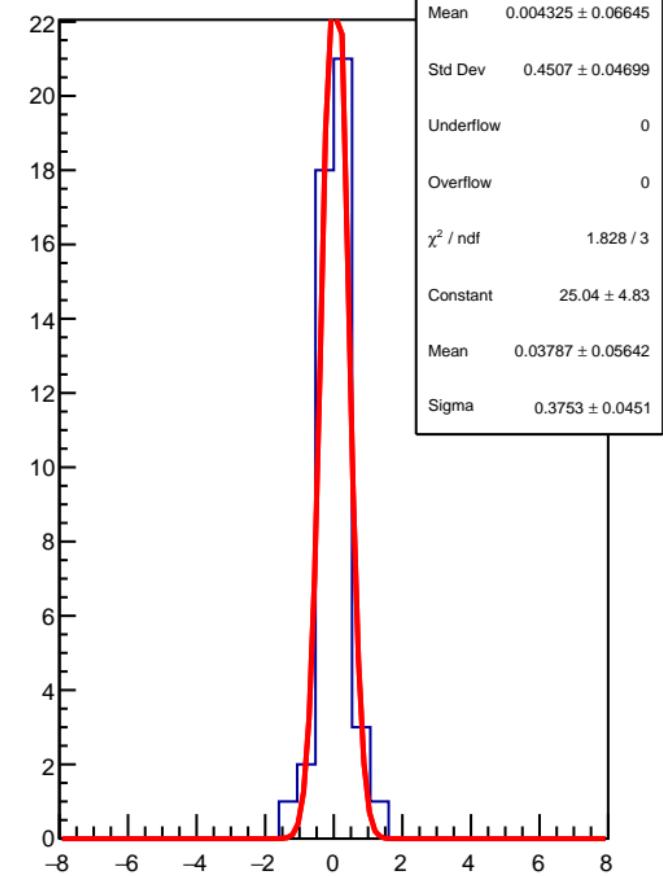


corr_usl_bpm11Y (ppb)

χ^2 / ndf 9.344 / 45
p0 -11.55 ± 21.56

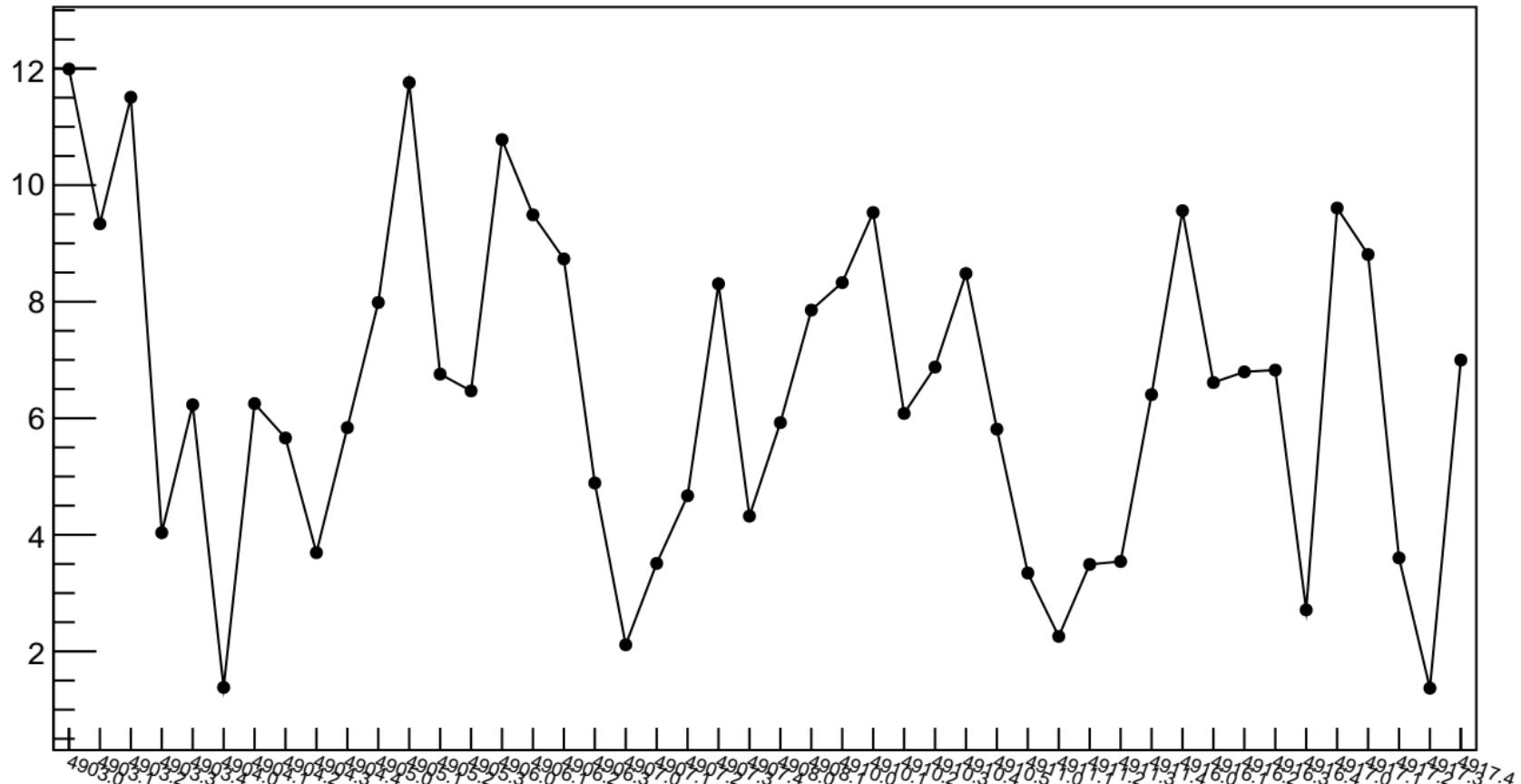


1D pull distribution

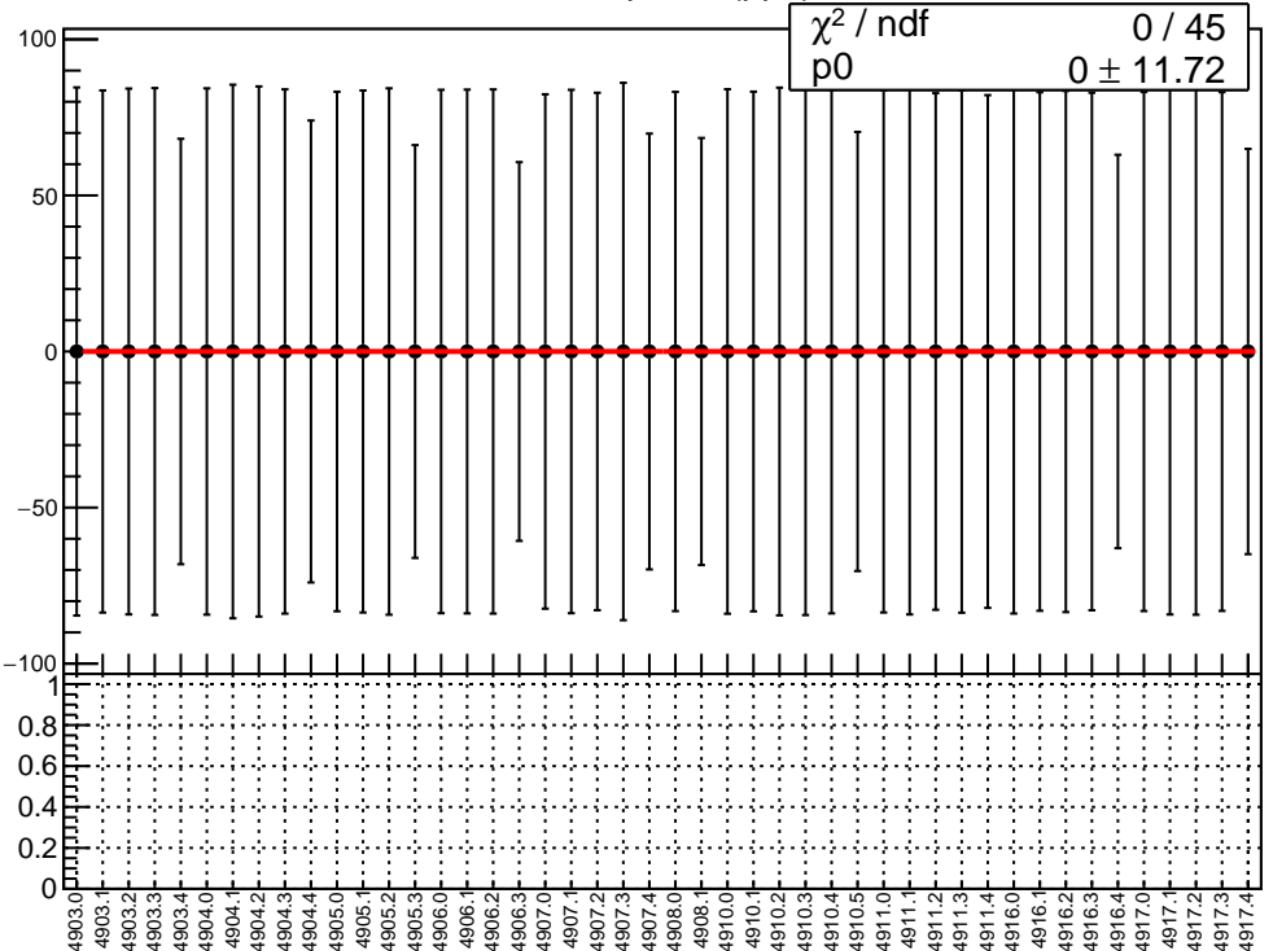


corr_usl_bpm11Y RMS (ppm)

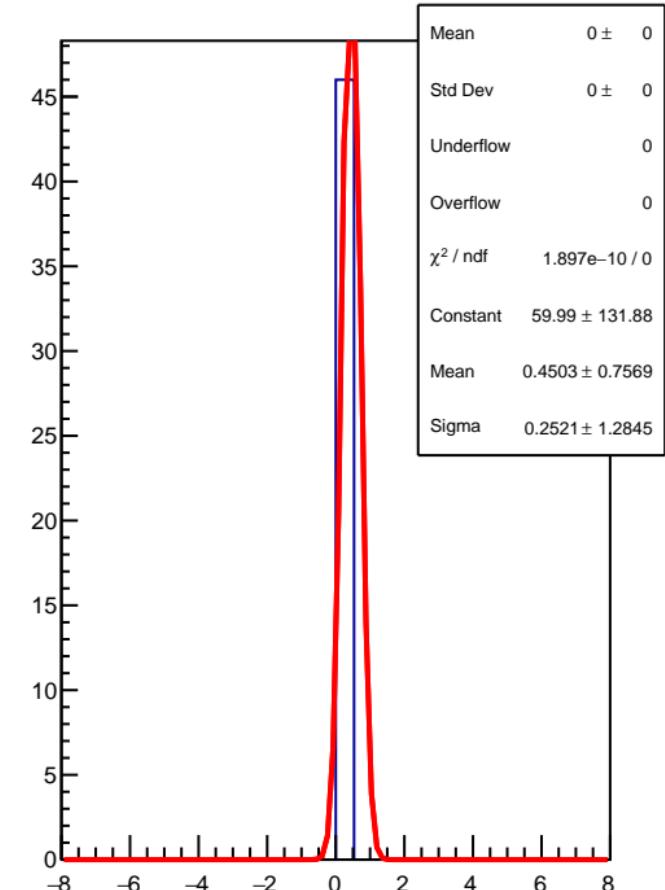
RMS (ppm)



corr_usl_bpm8X (ppb)

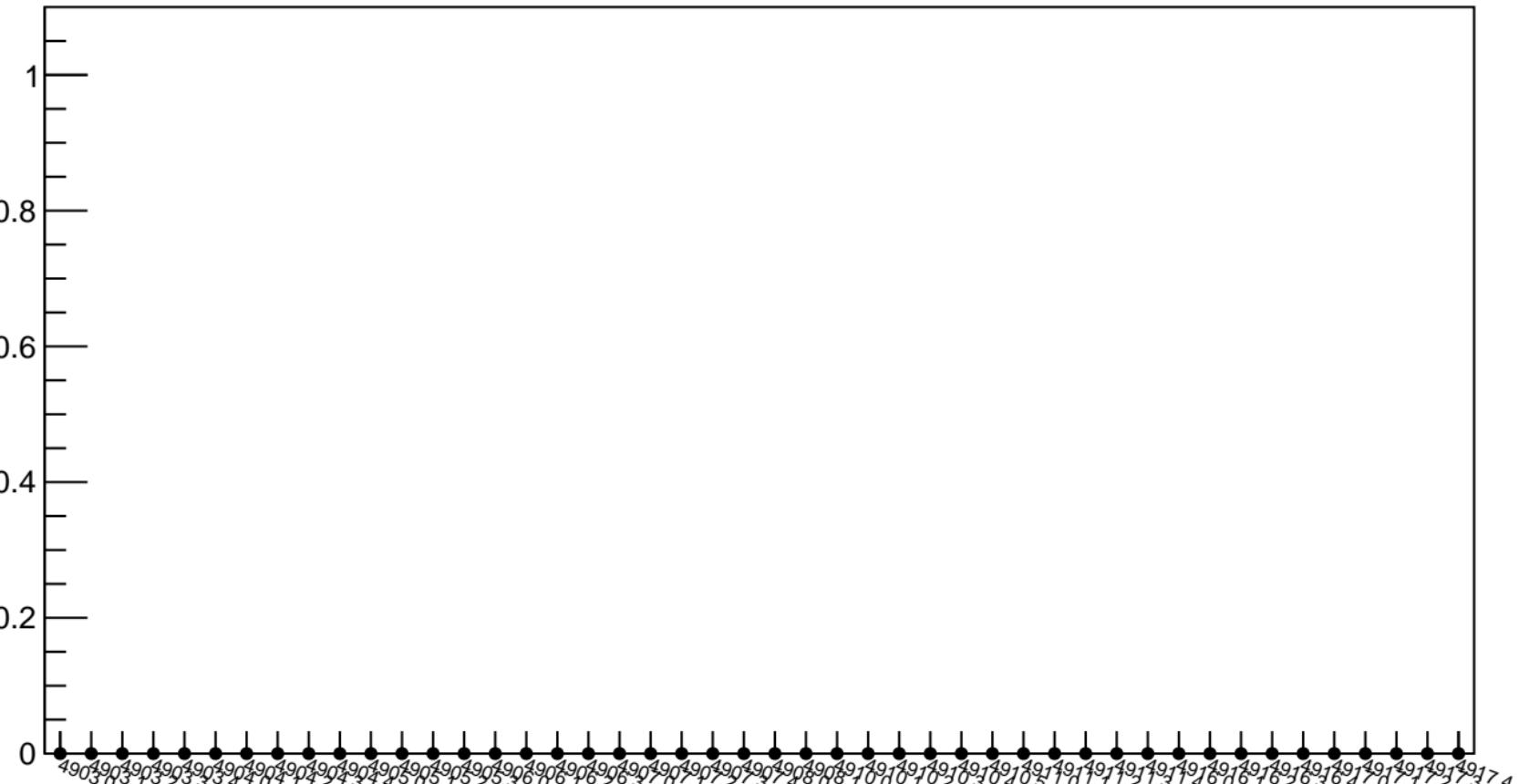


1D pull distribution

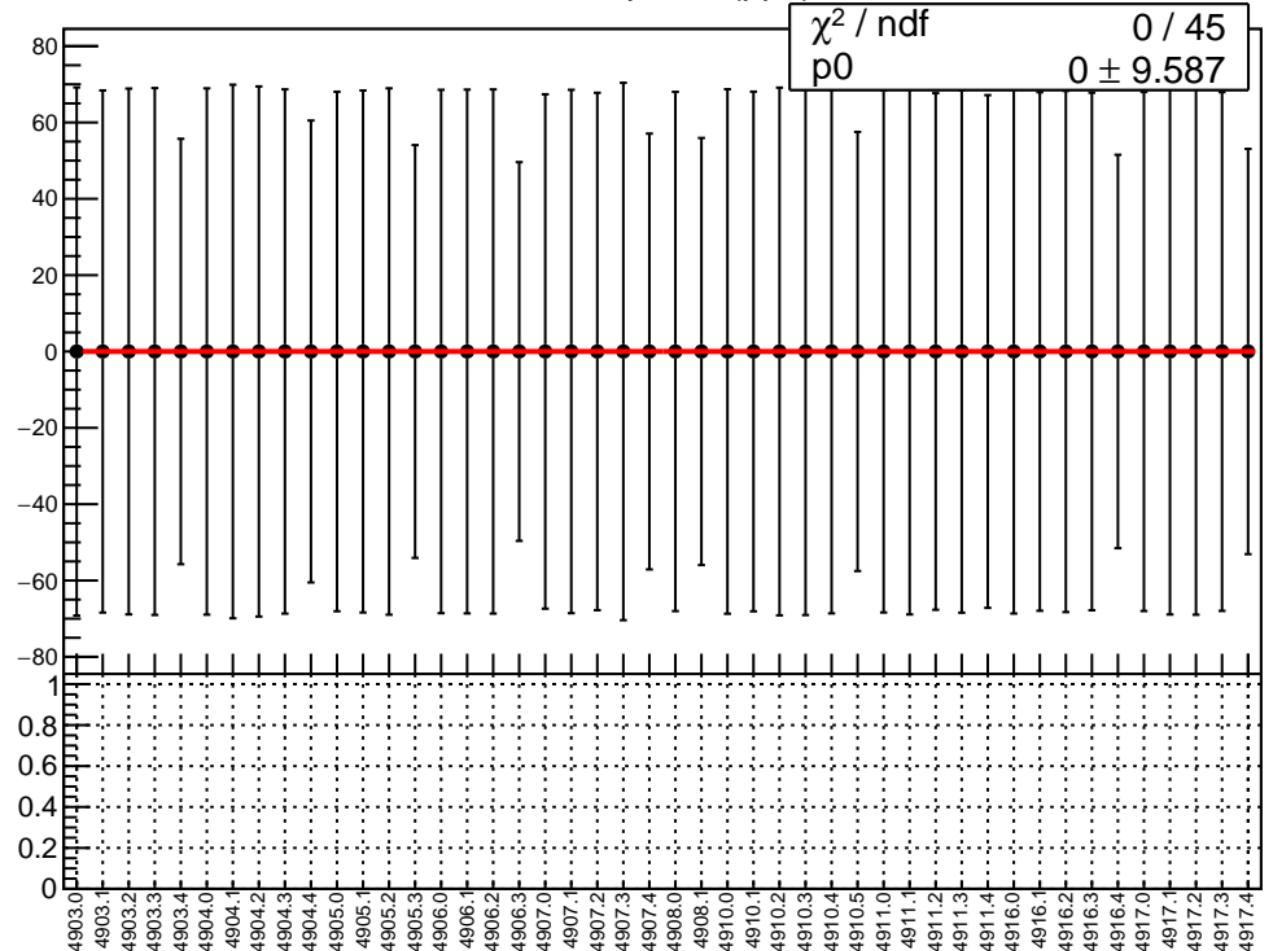


corr_usl_bpm8X RMS (ppm)

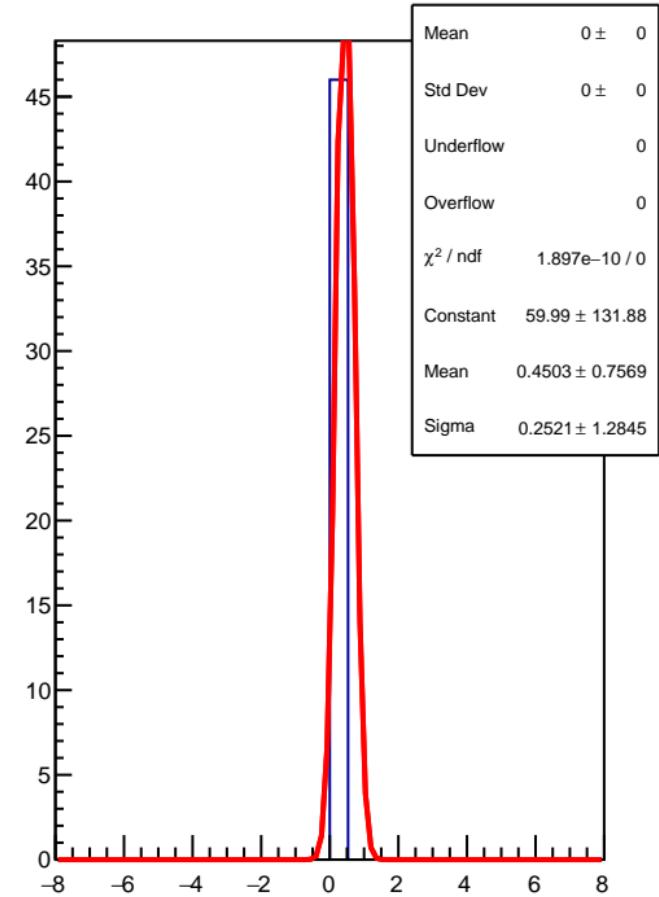
RMS (ppm)



corr_usl_bpm8Y (ppb)

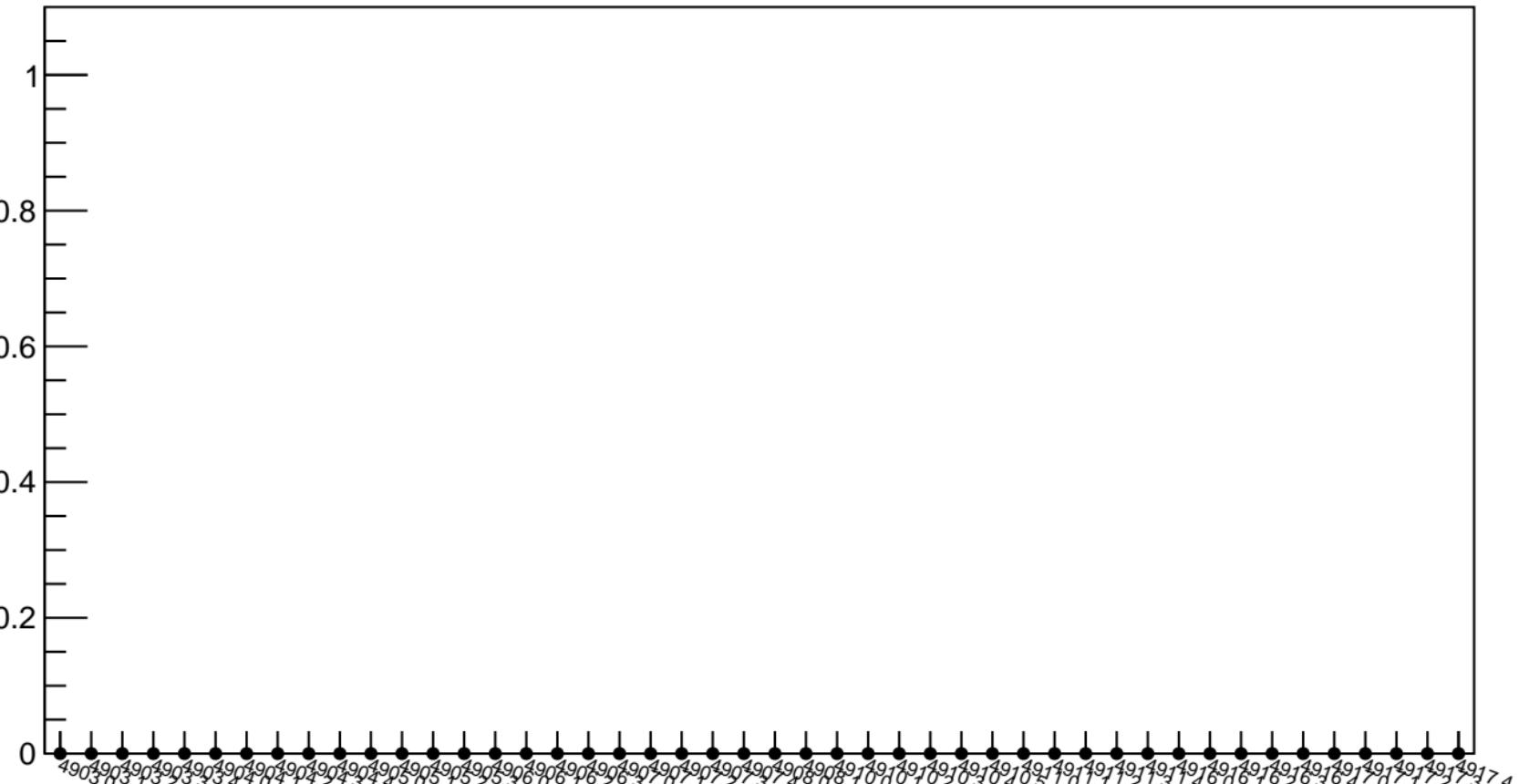


1D pull distribution

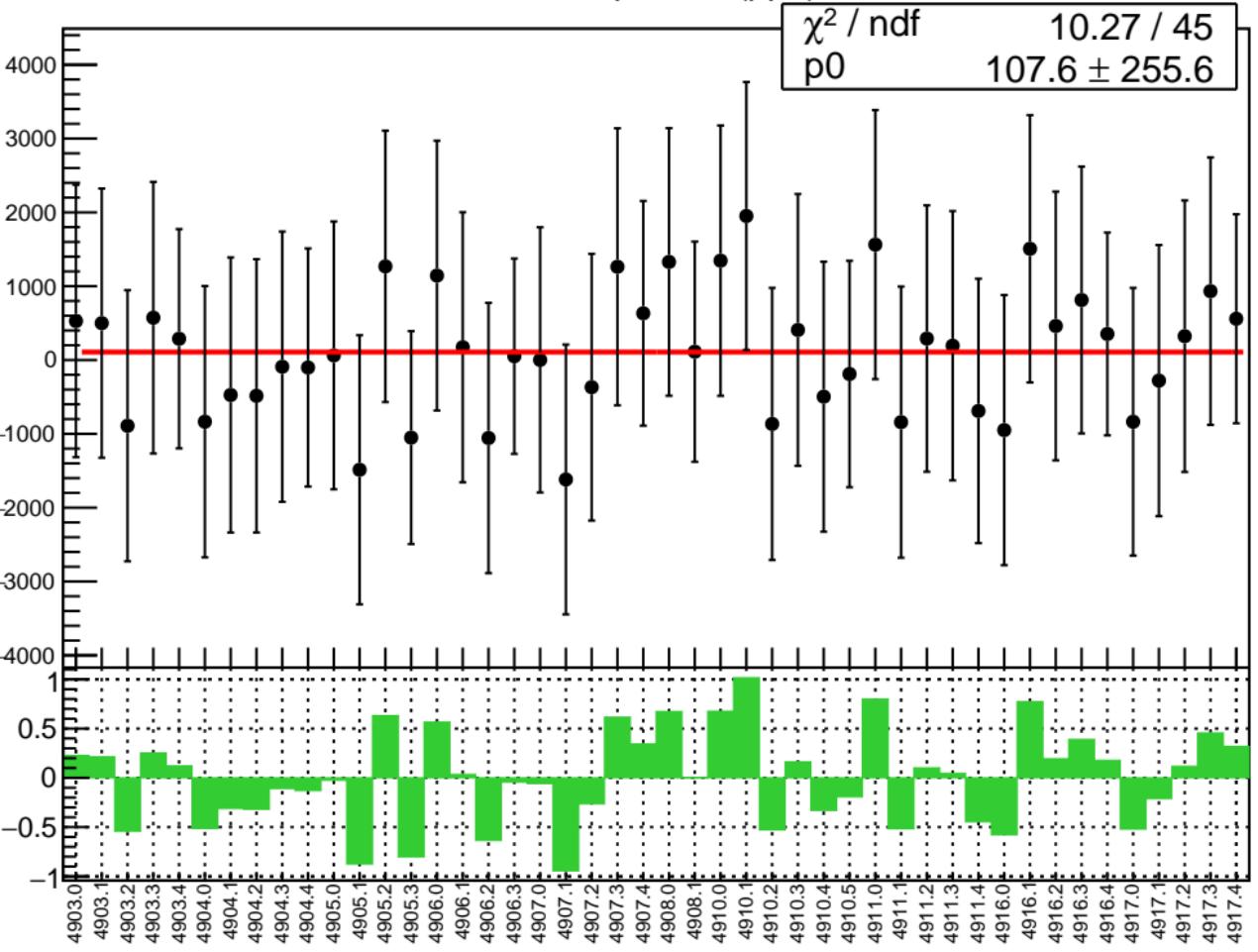


corr_usl_bpm8Y RMS (ppm)

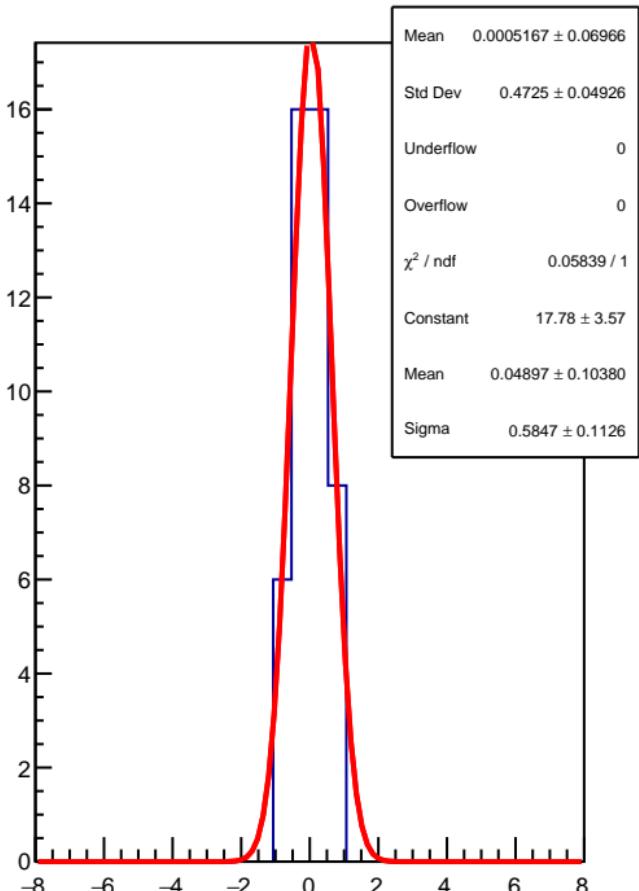
RMS (ppm)



corr_usr_bpm4eX (ppb)

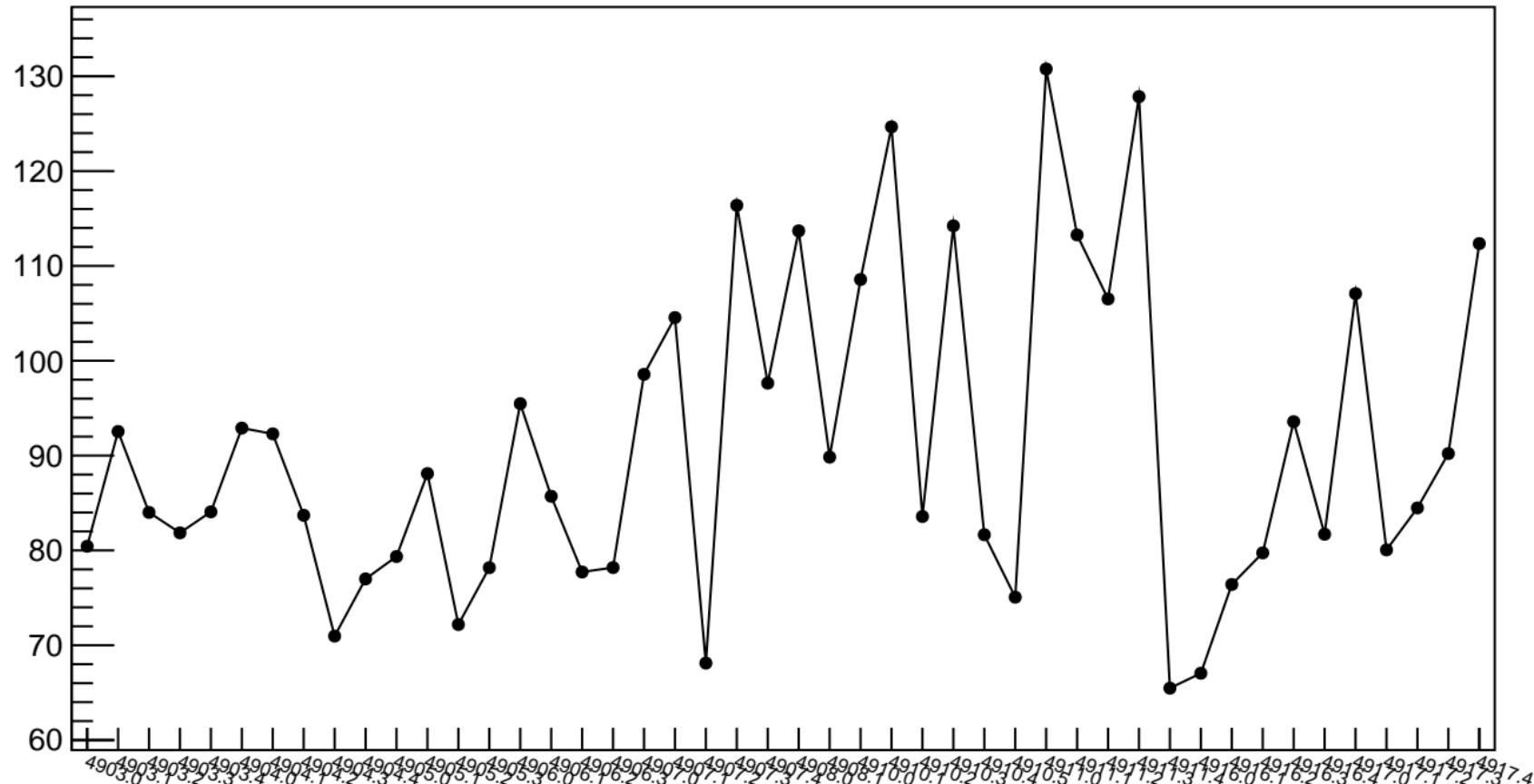


1D pull distribution



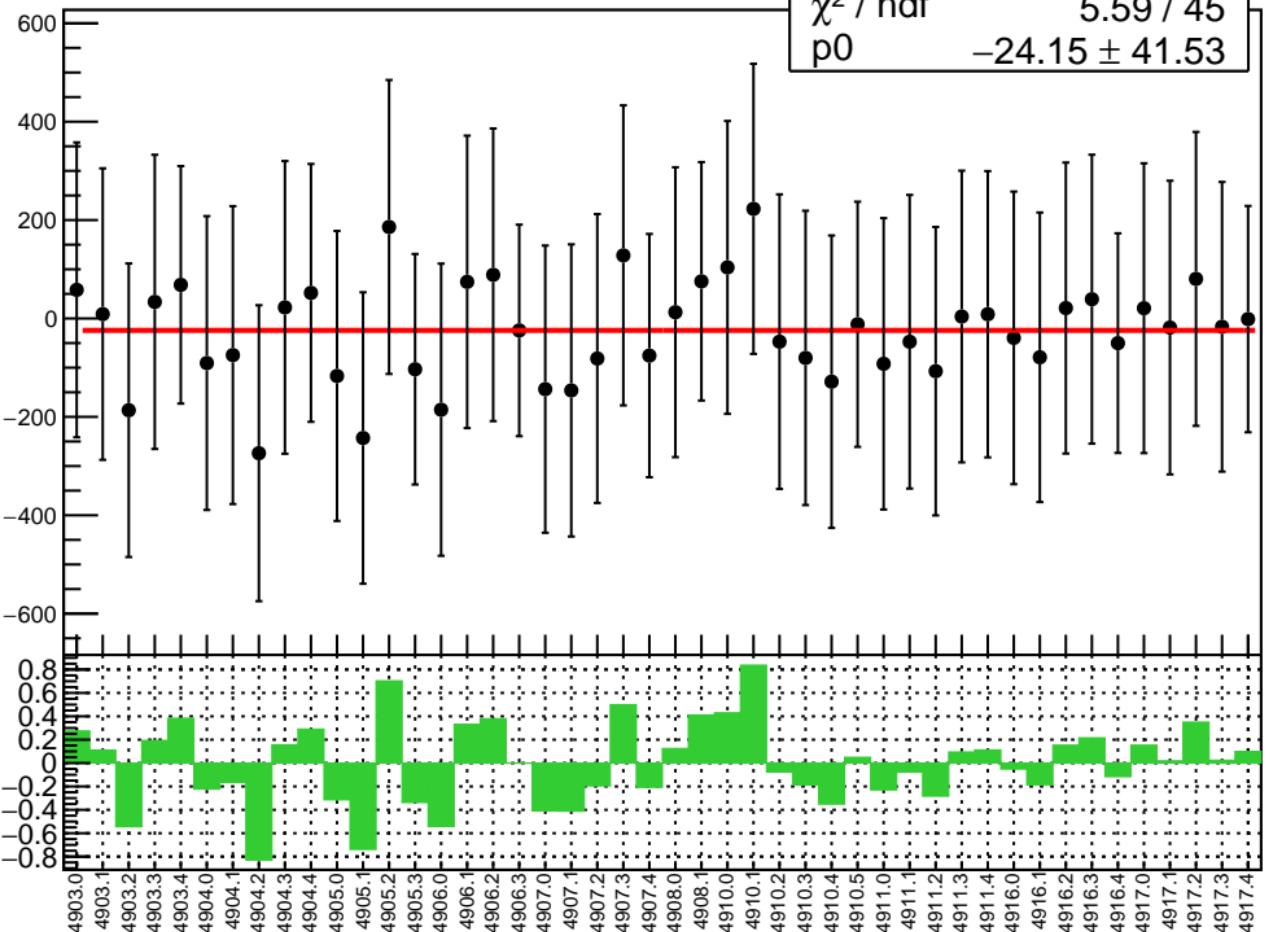
corr_usr_bpm4eX RMS (ppm)

RMS (ppm)

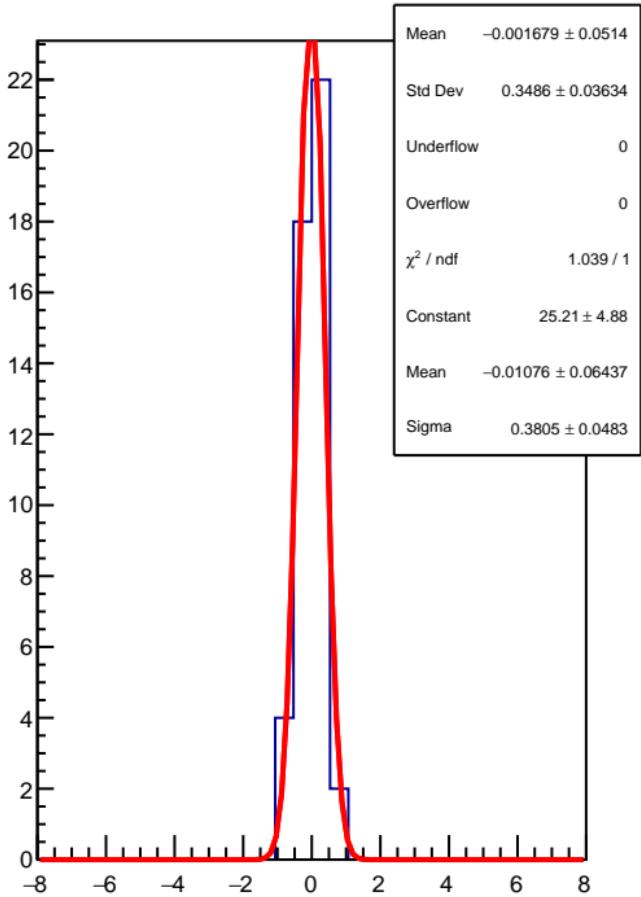


corr_usr_bpm4eY (ppb)

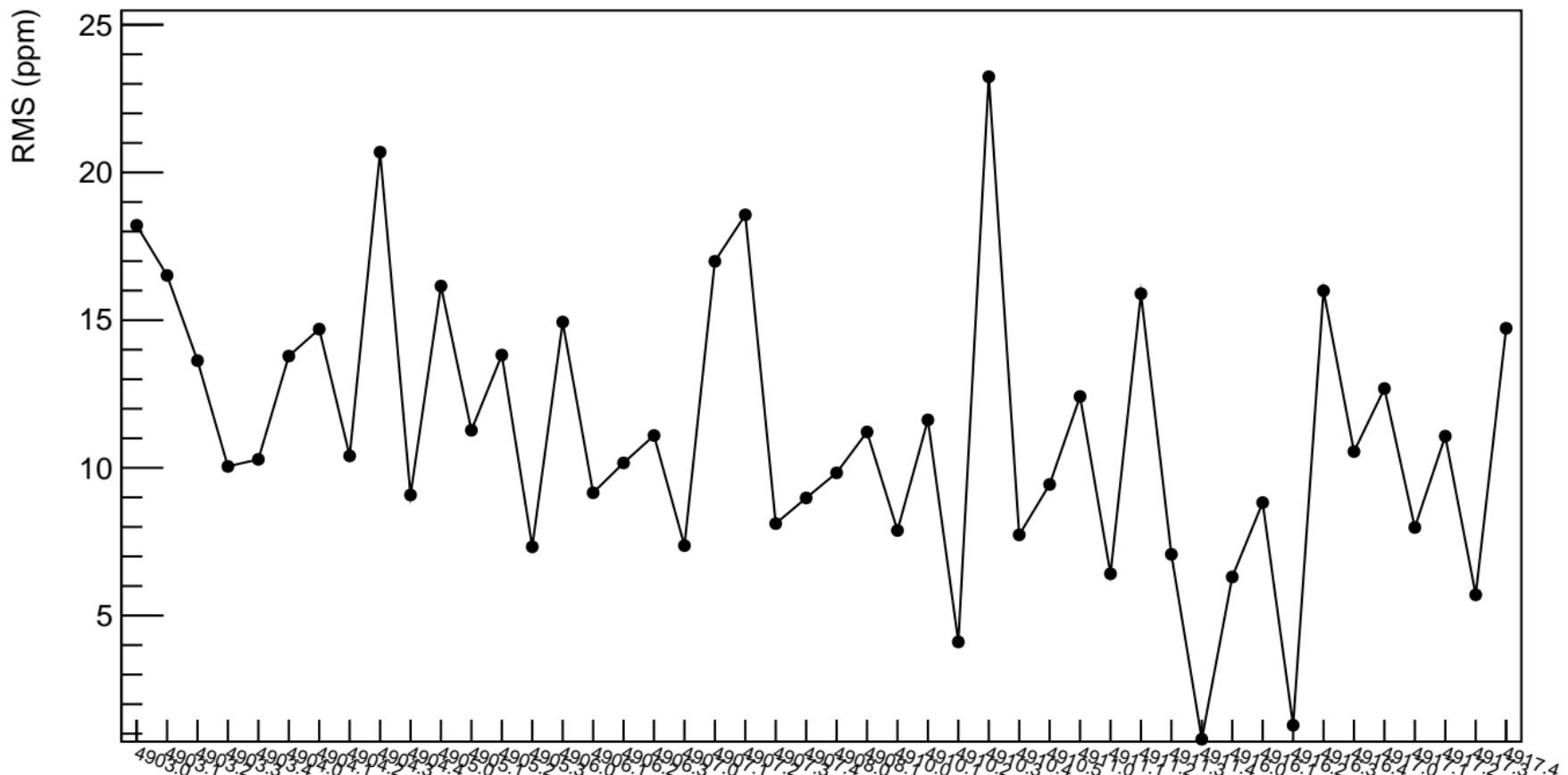
χ^2 / ndf 5.59 / 45
p0 -24.15 ± 41.53



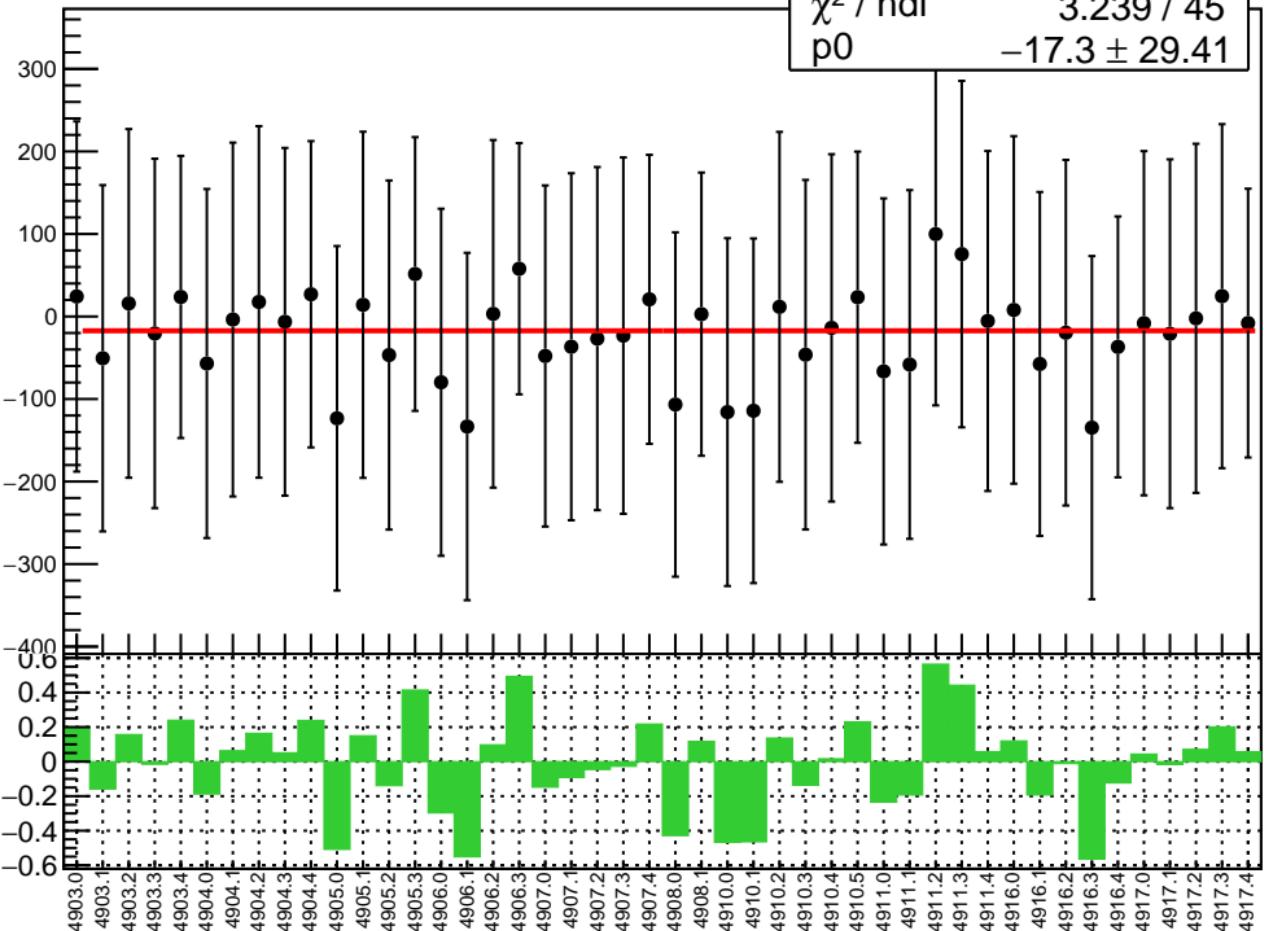
1D pull distribution



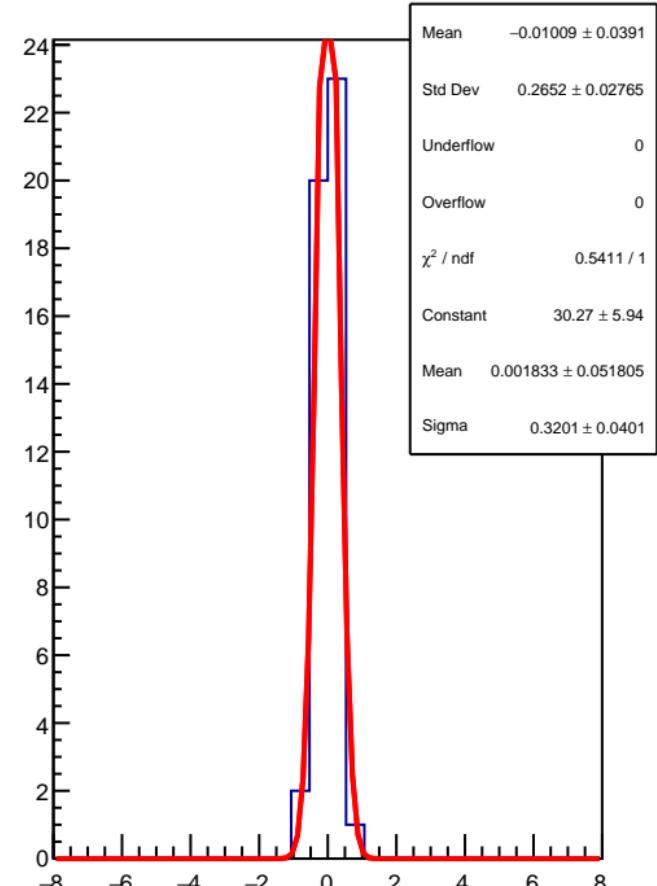
corr_usr_bpm4eY RMS (ppm)



corr_usr_bpm4aX (ppb)

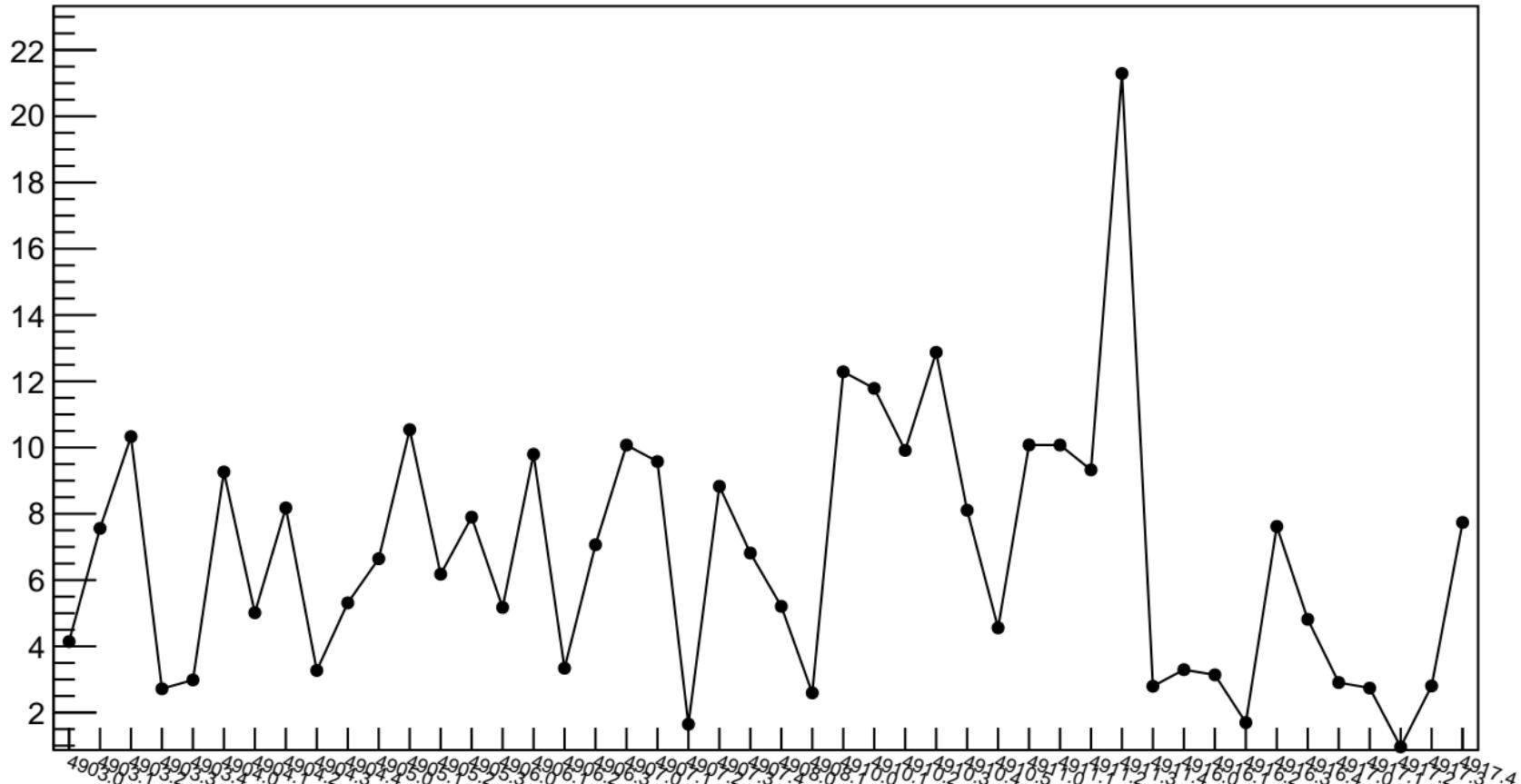
 χ^2 / ndf
 $3.239 / 45$
 p_0
 -17.3 ± 29.41


1D pull distribution

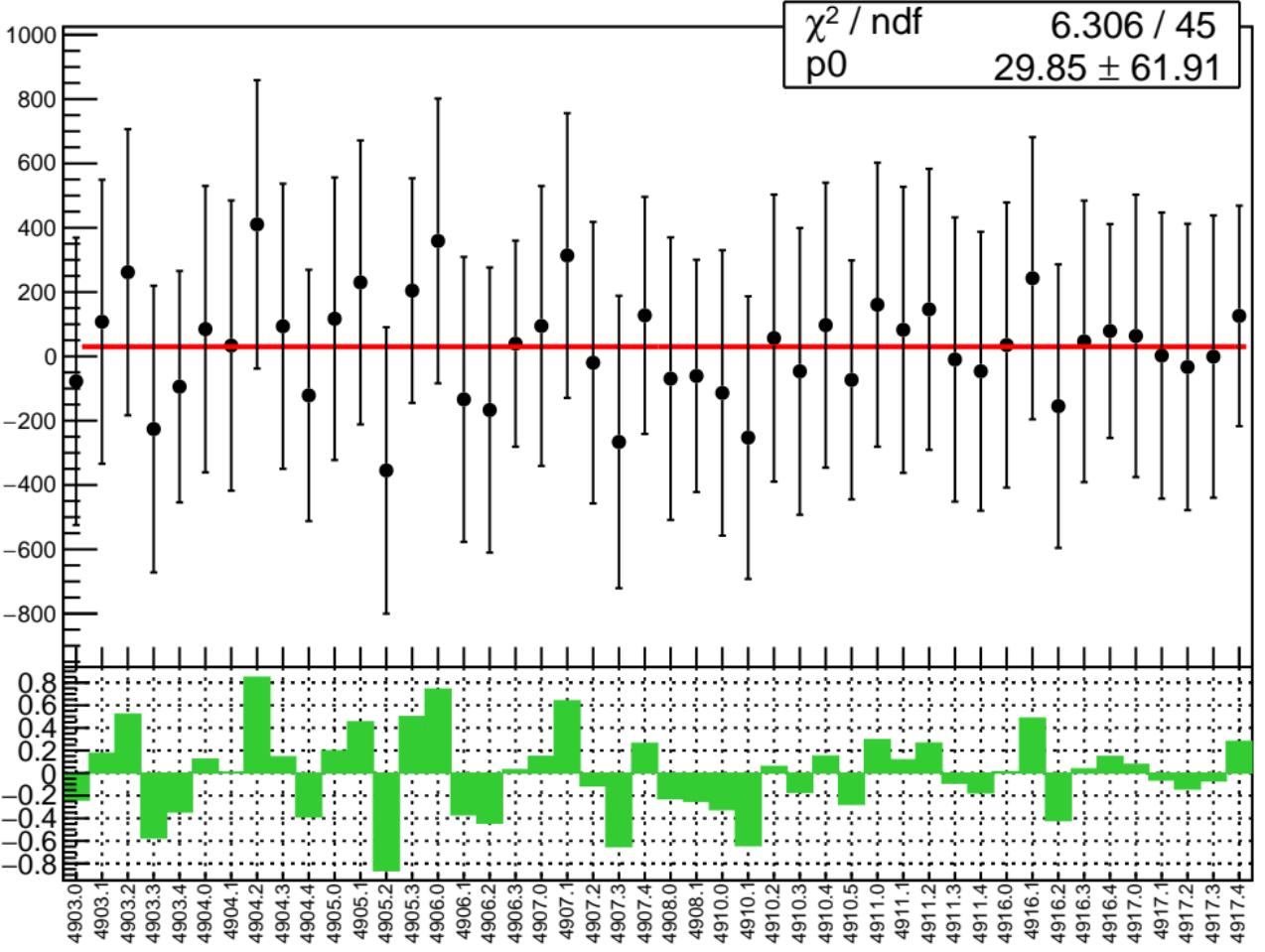


corr_usr_bpm4aX RMS (ppm)

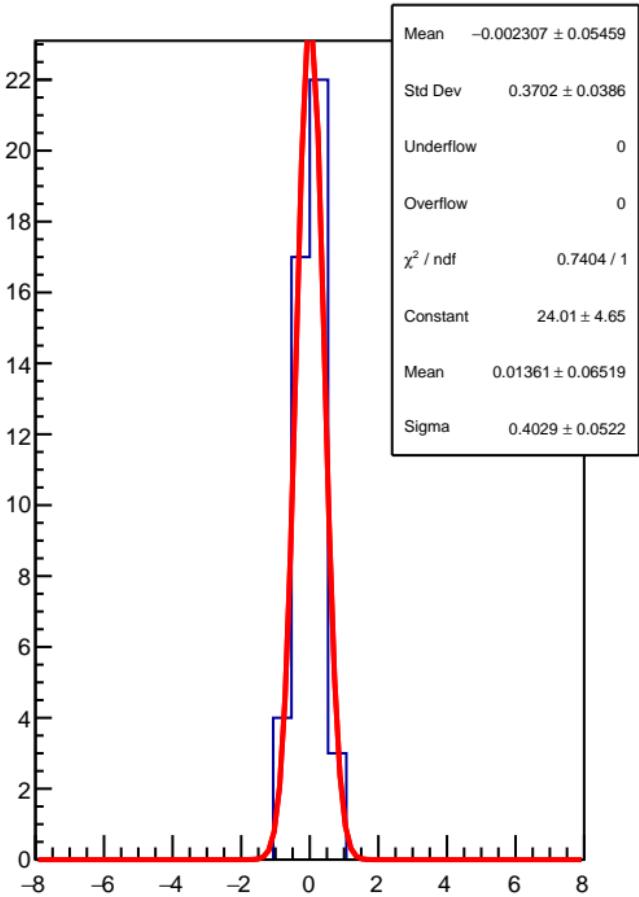
RMS (ppm)



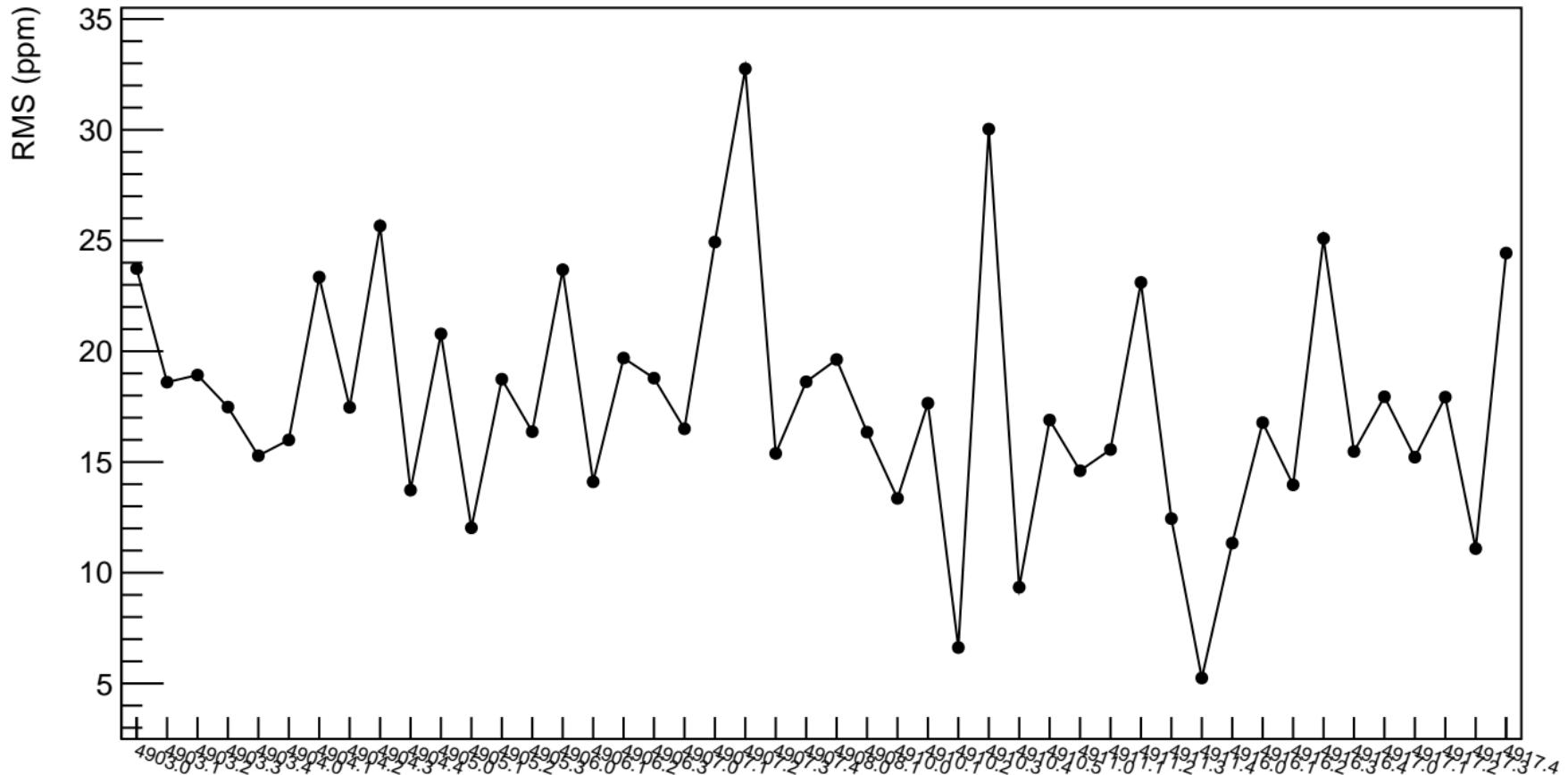
corr_usr_bpm4aY (ppb)



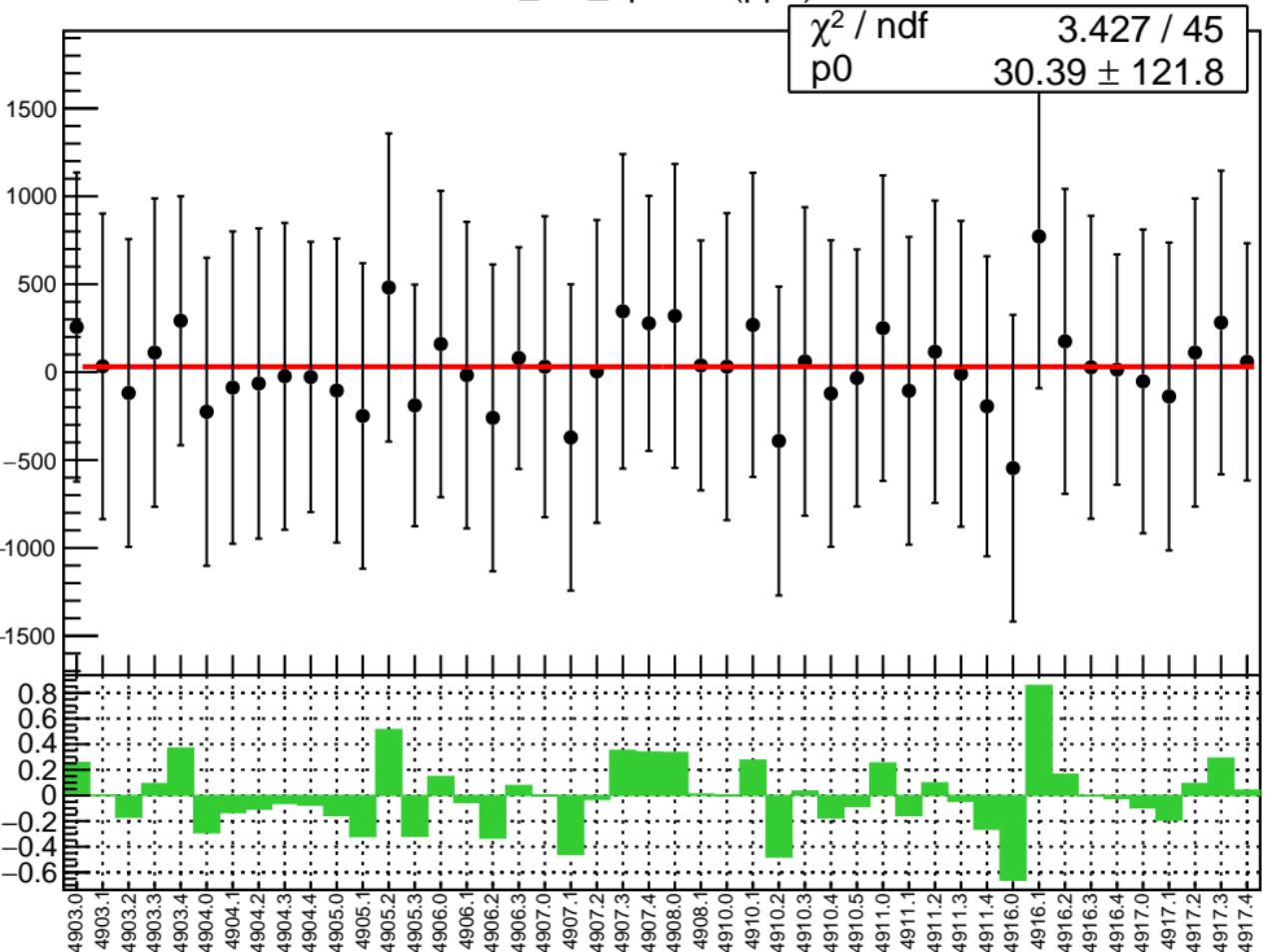
1D pull distribution



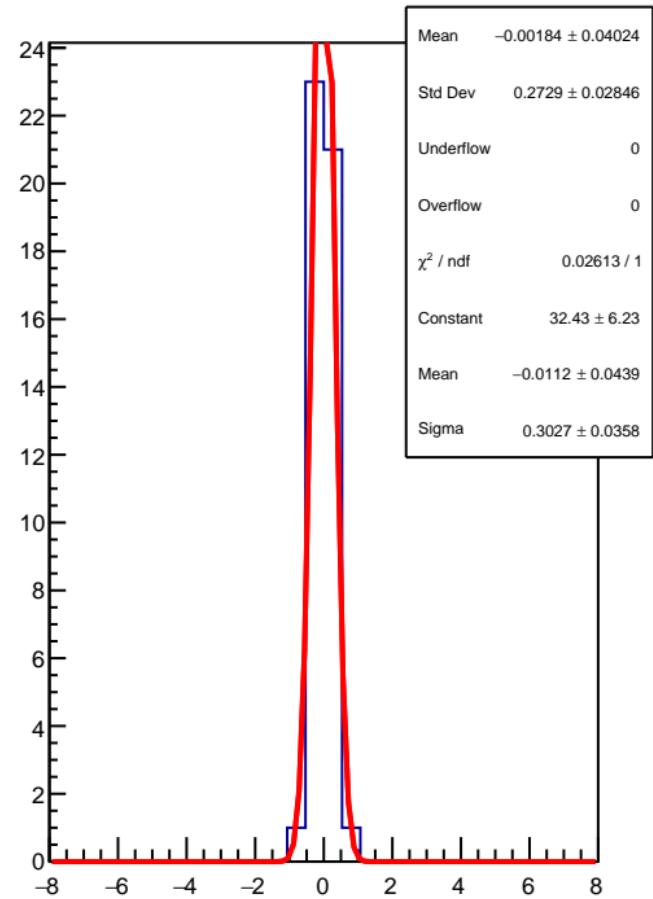
corr_usr_bpm4aY RMS (ppm)



corr_usr_bpm1X (ppb)

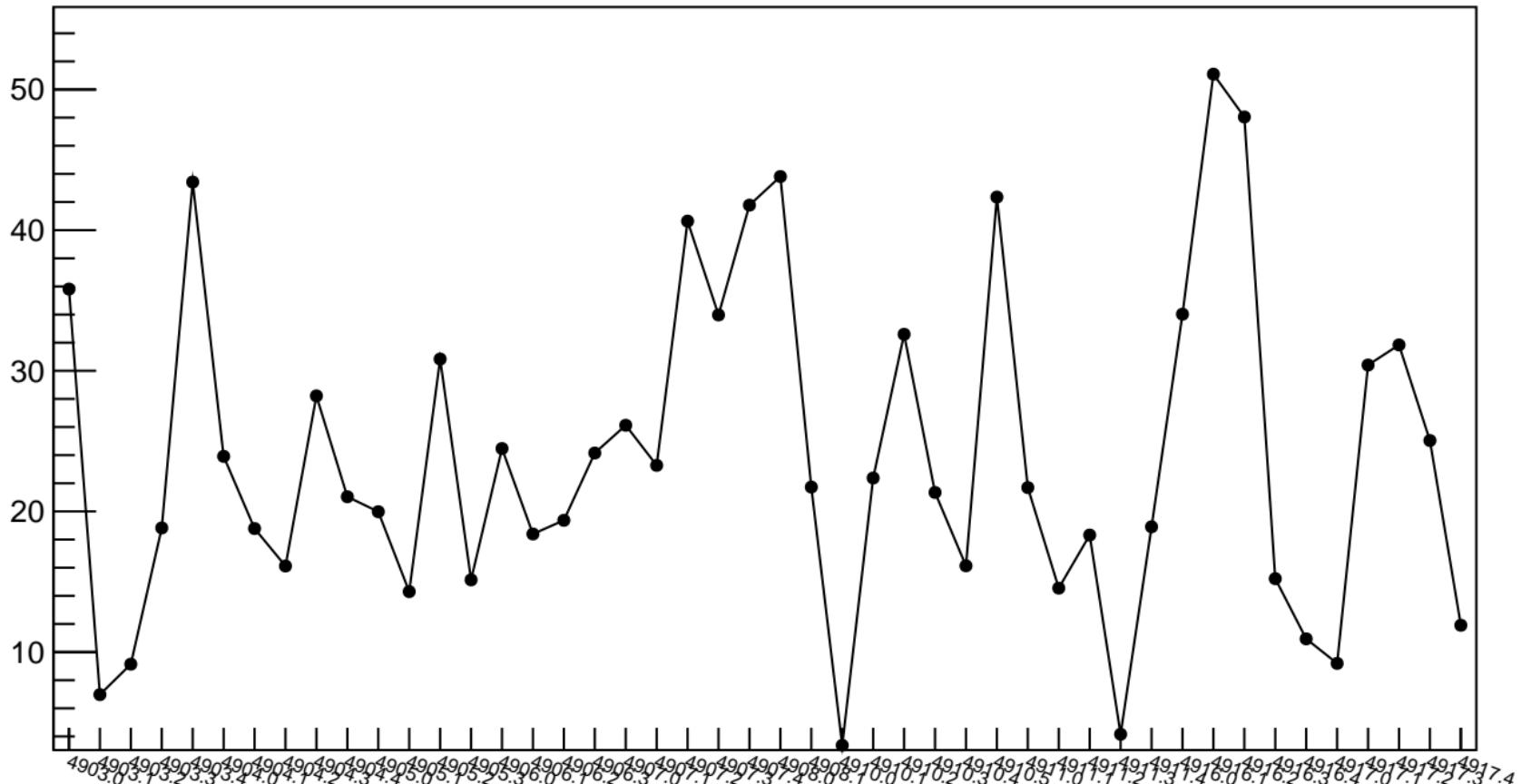


1D pull distribution



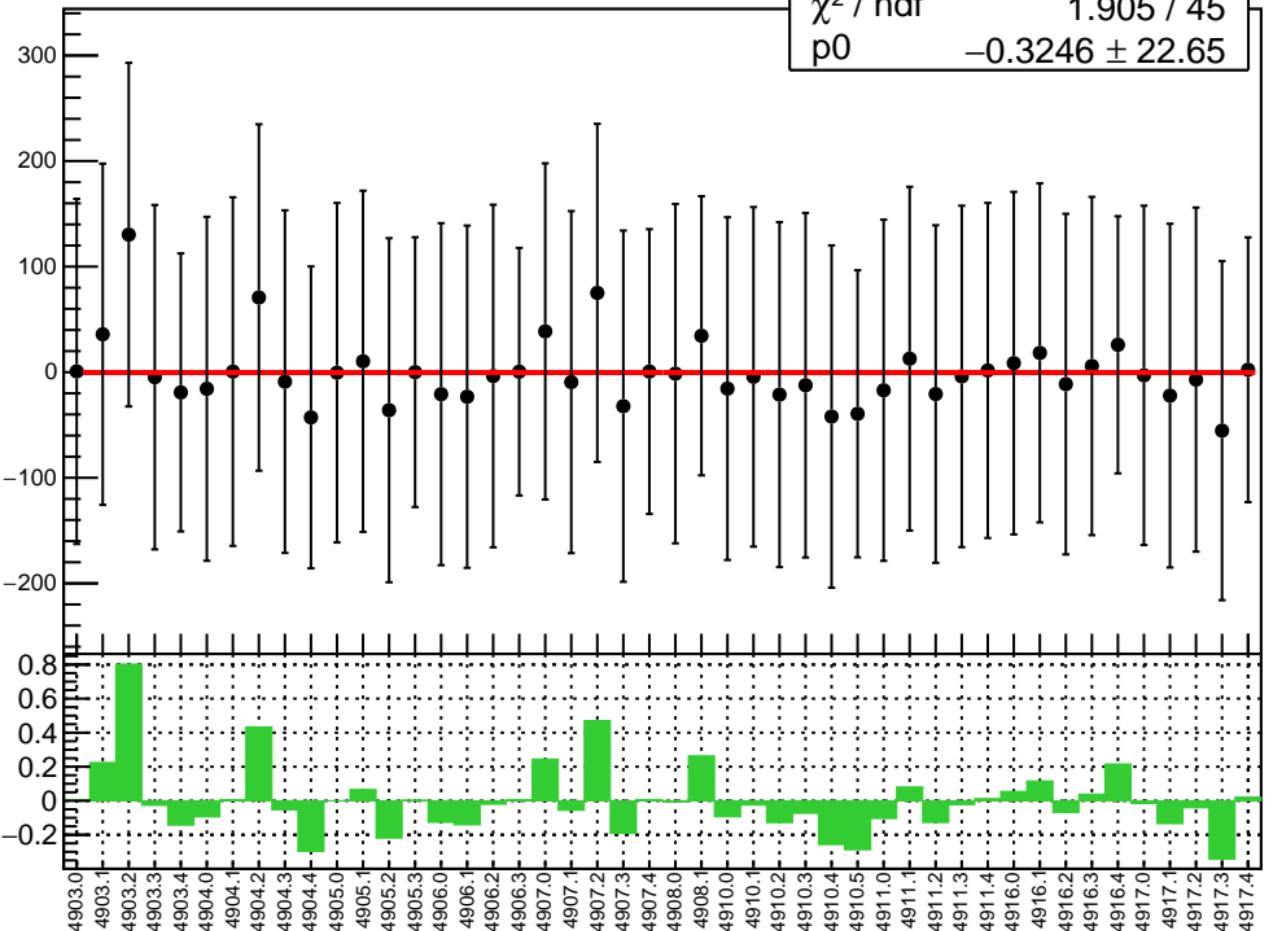
corr_usr_bpm1X RMS (ppm)

RMS (ppm)

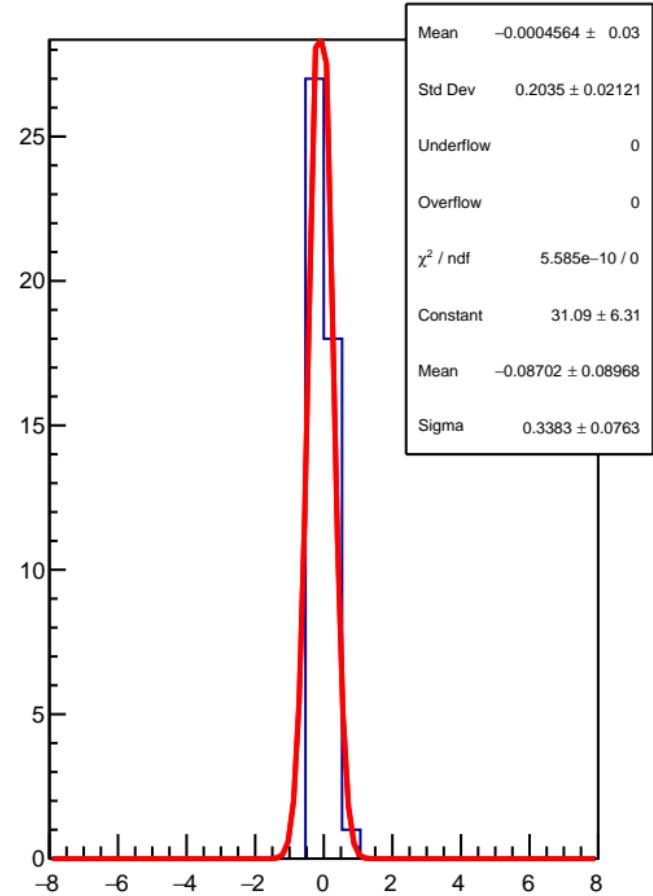


corr_usr_bpm1Y (ppb)

χ^2 / ndf 1.905 / 45
 p_0 -0.3246 ± 22.65

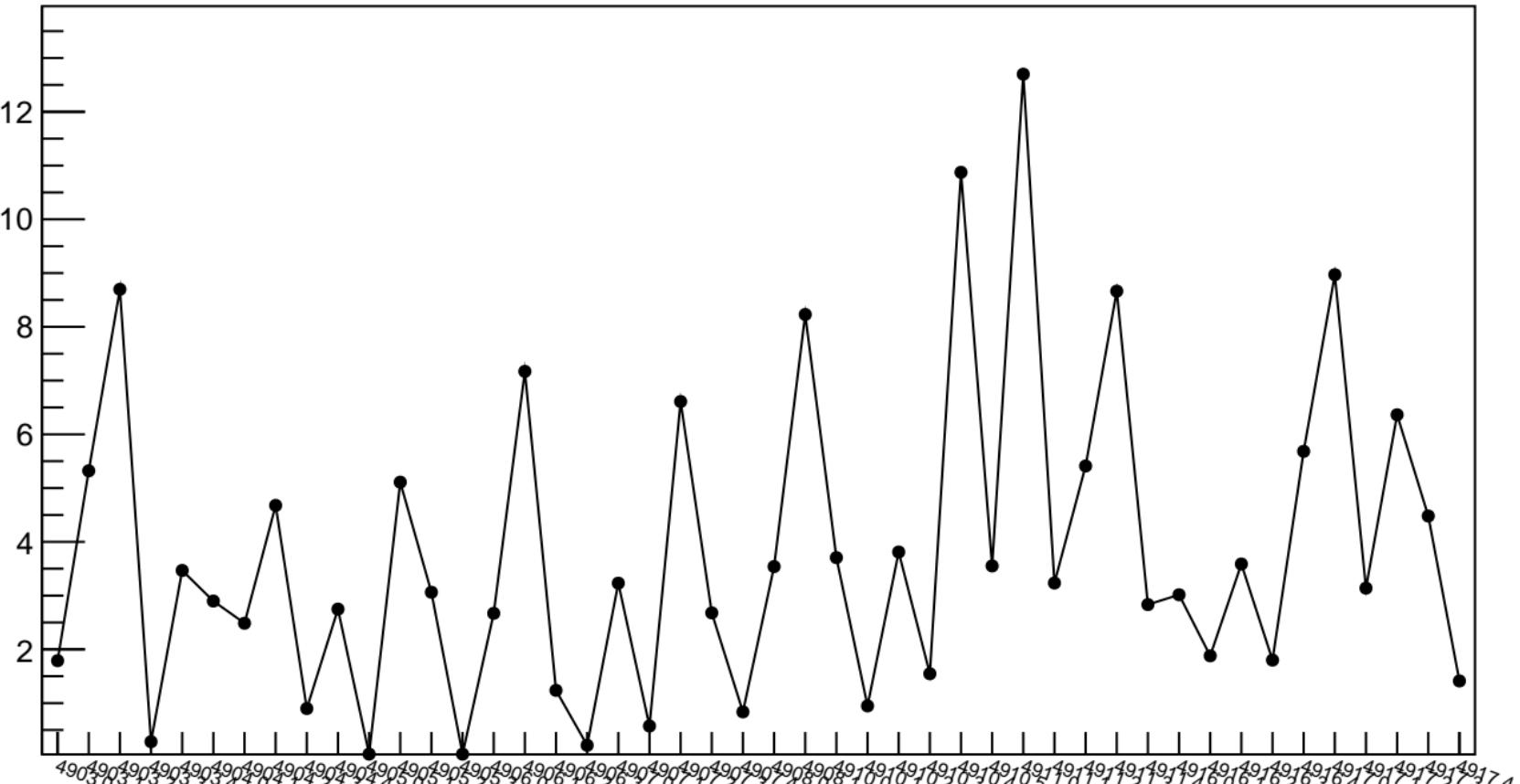


1D pull distribution

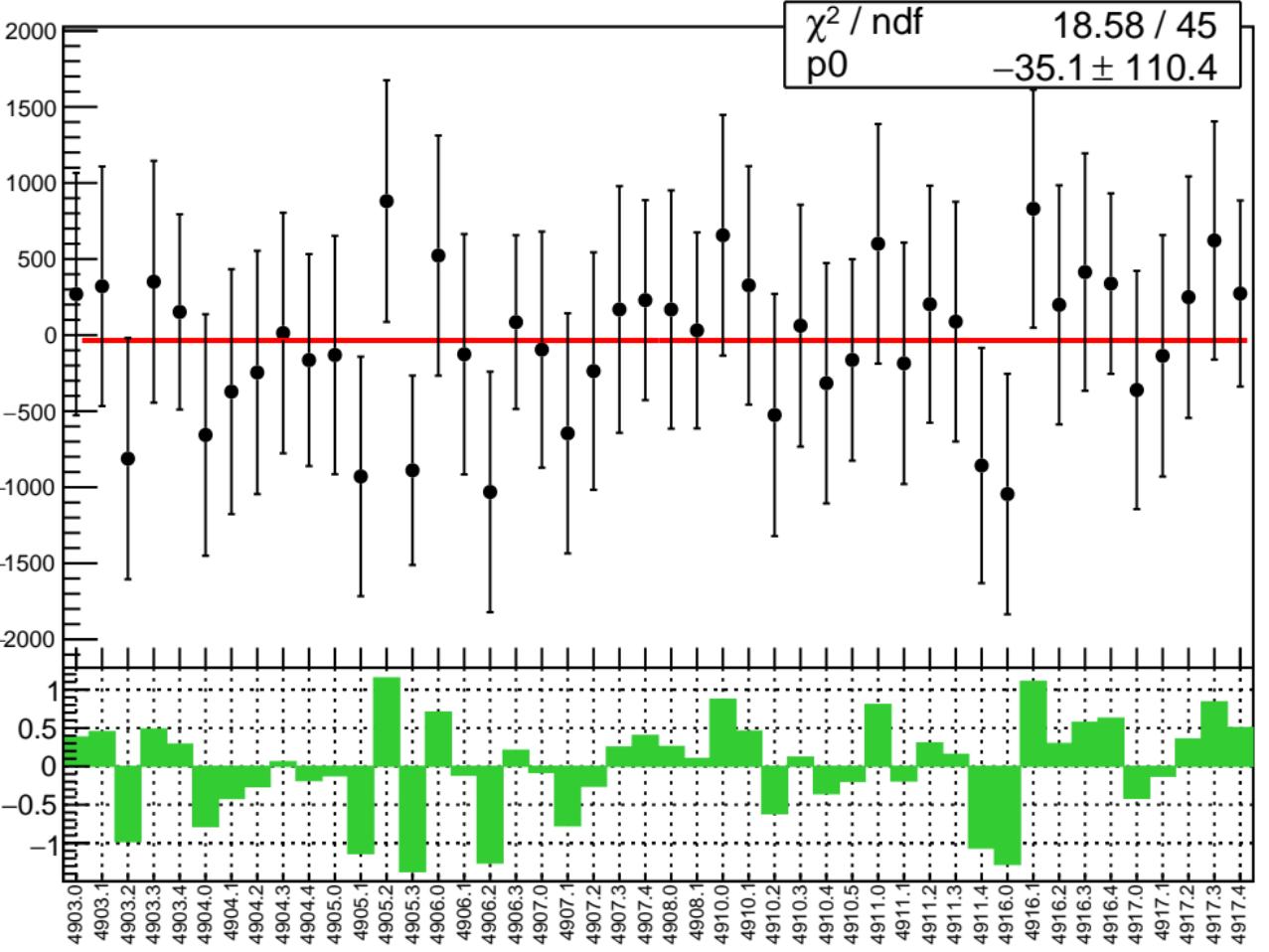


corr_usr_bpm1Y RMS (ppm)

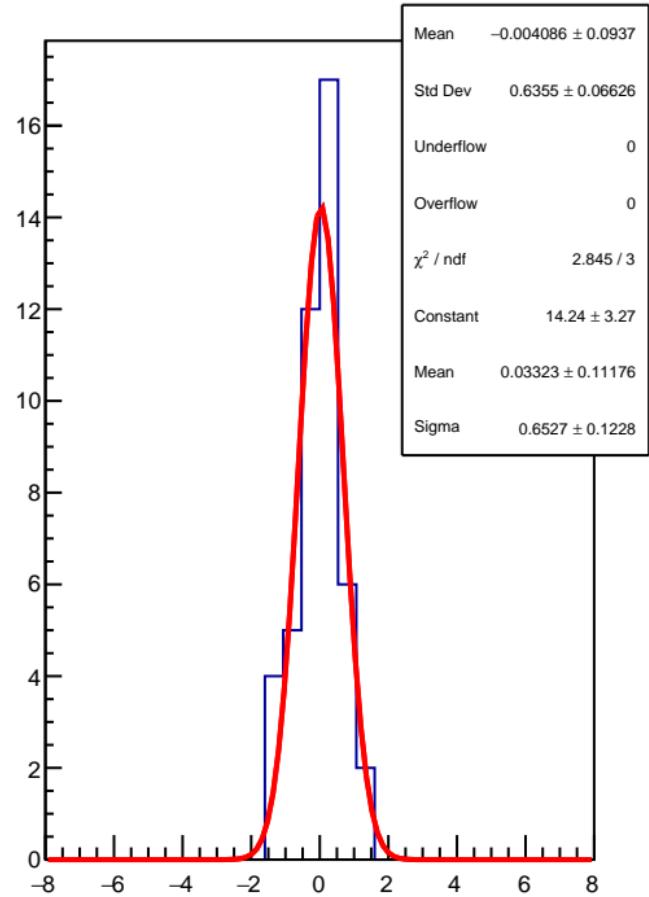
RMS (ppm)



corr_usr_bpm16X (ppb)

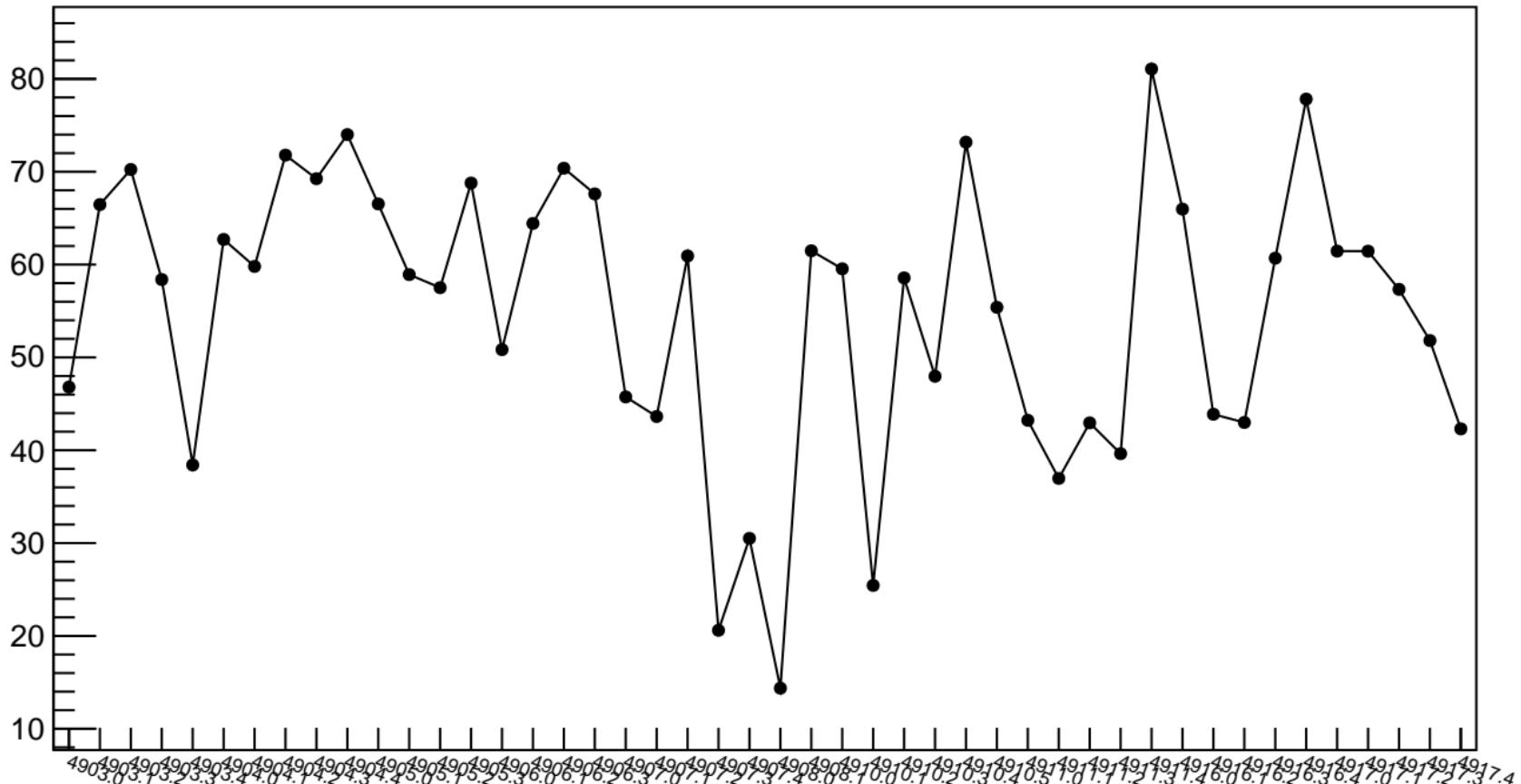


1D pull distribution

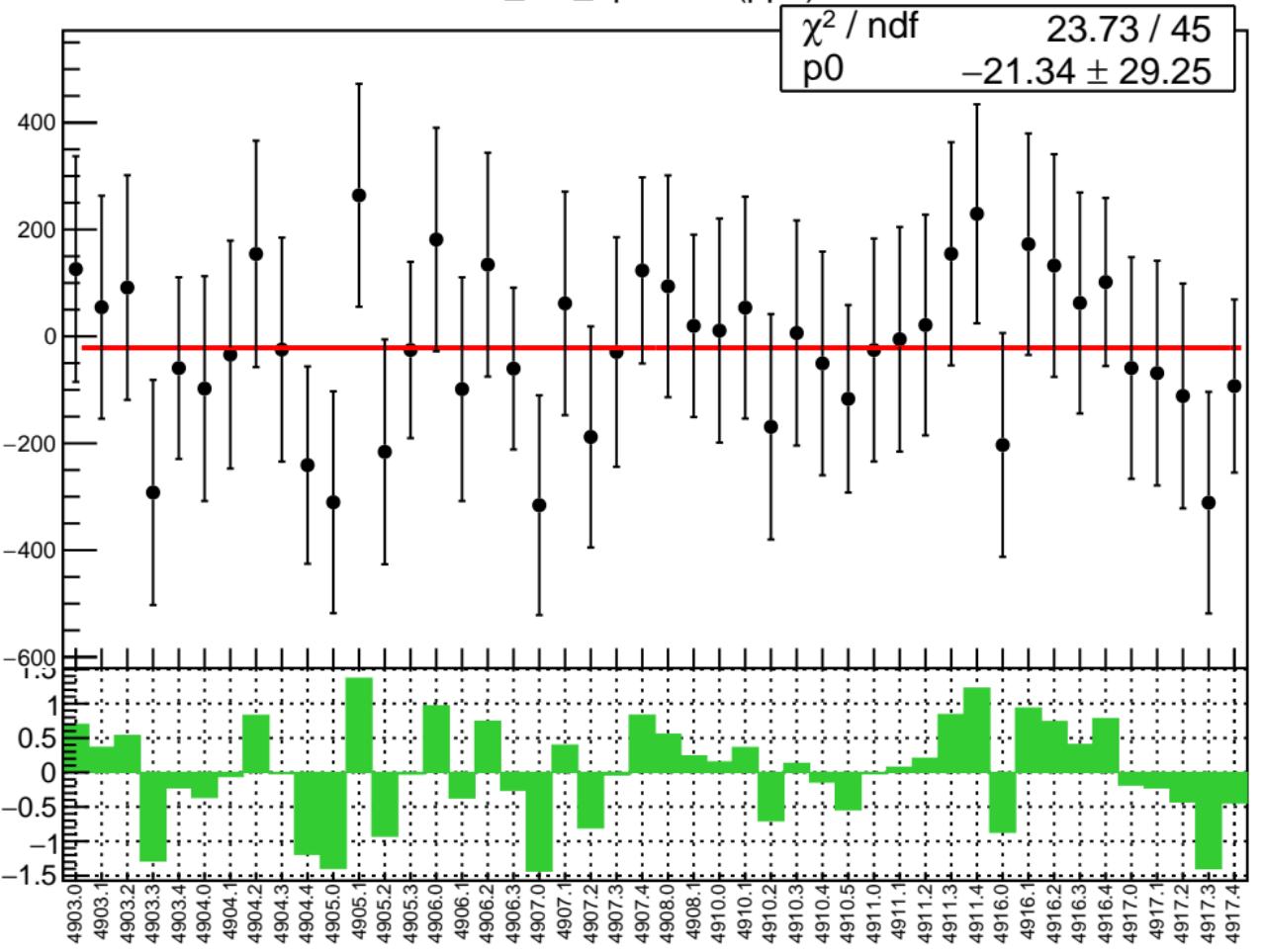


corr_usr_bpm16X RMS (ppm)

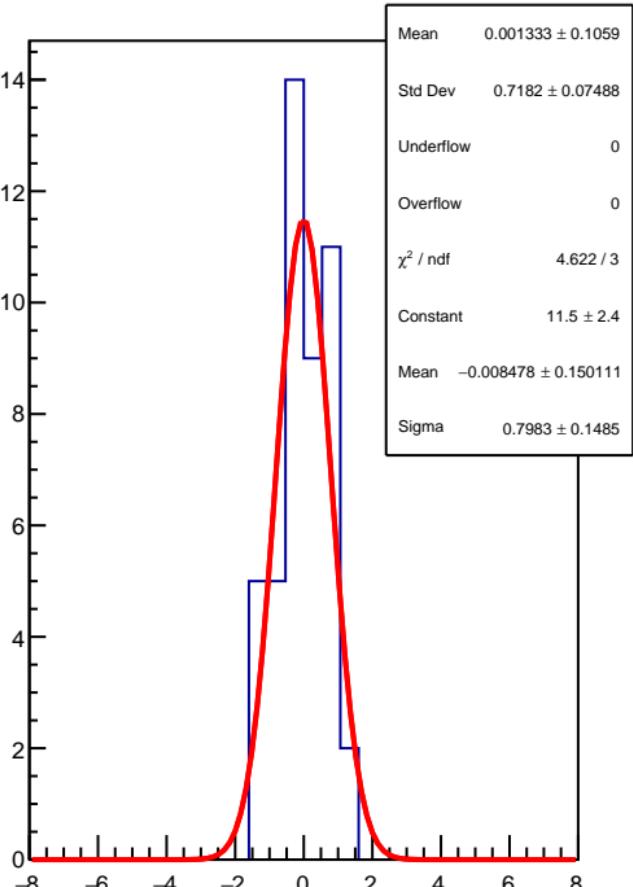
RMS (ppm)



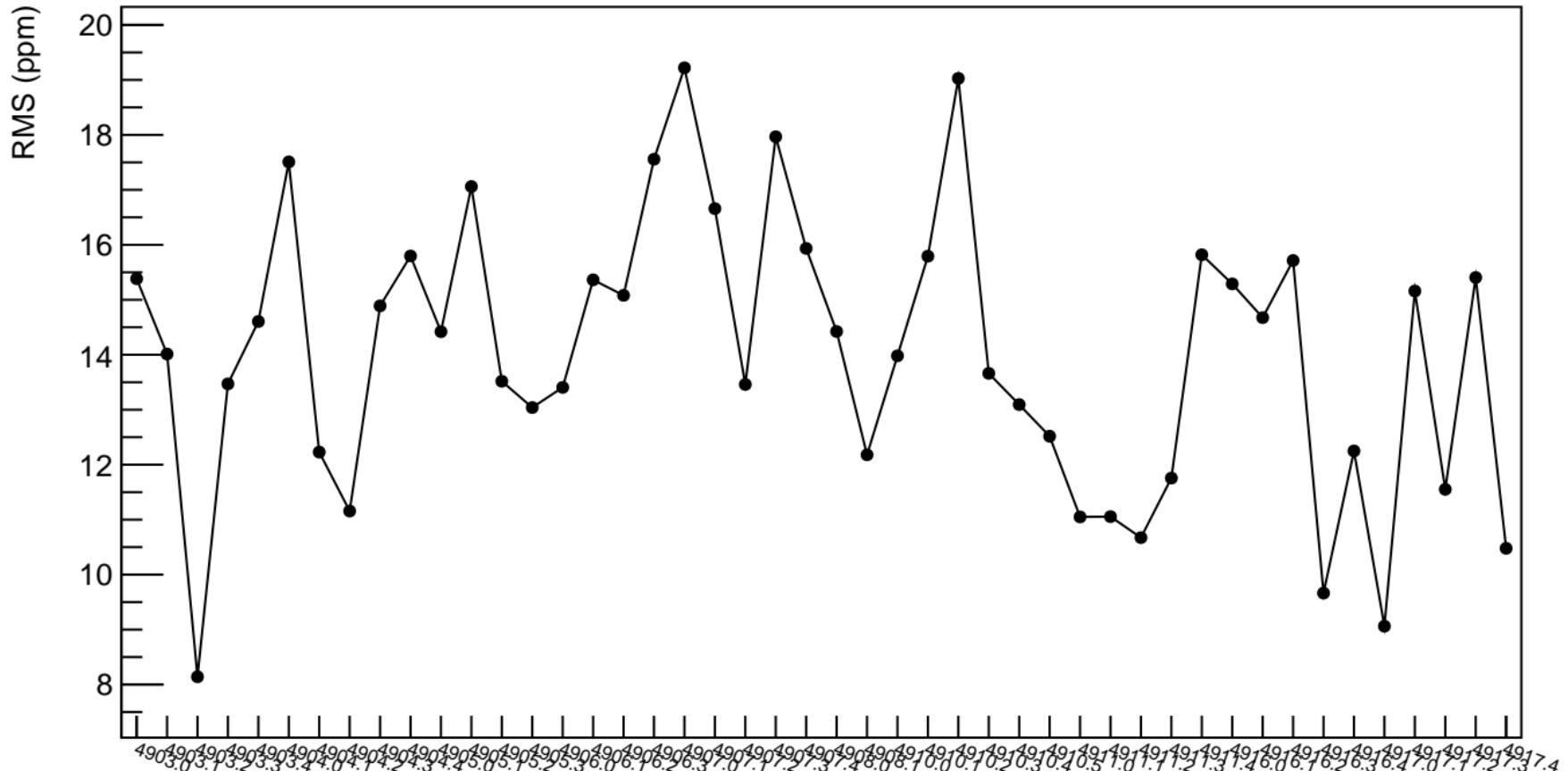
corr_usr_bpm16Y (ppb)



1D pull distribution

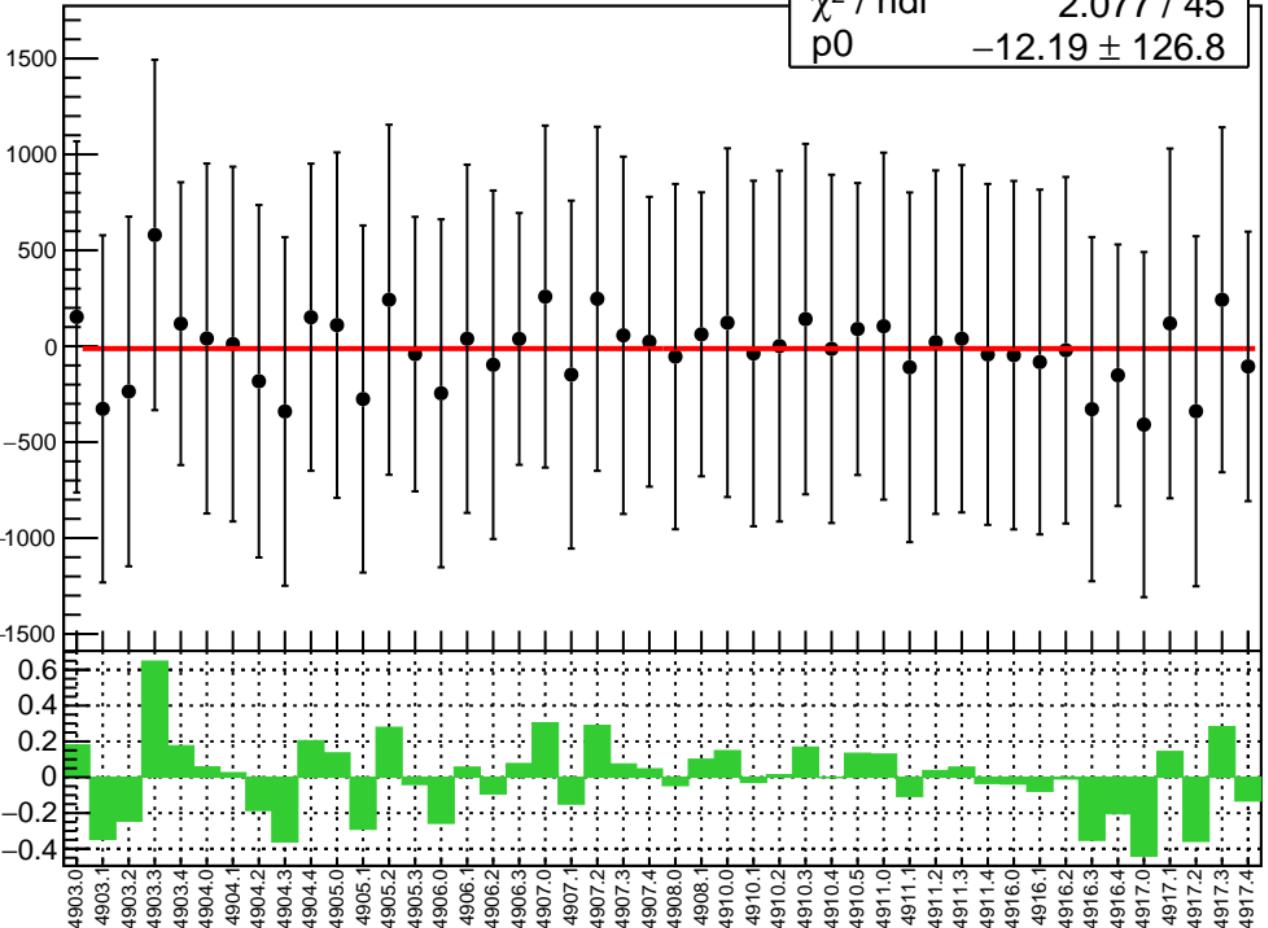


corr_usr_bpm16Y RMS (ppm)

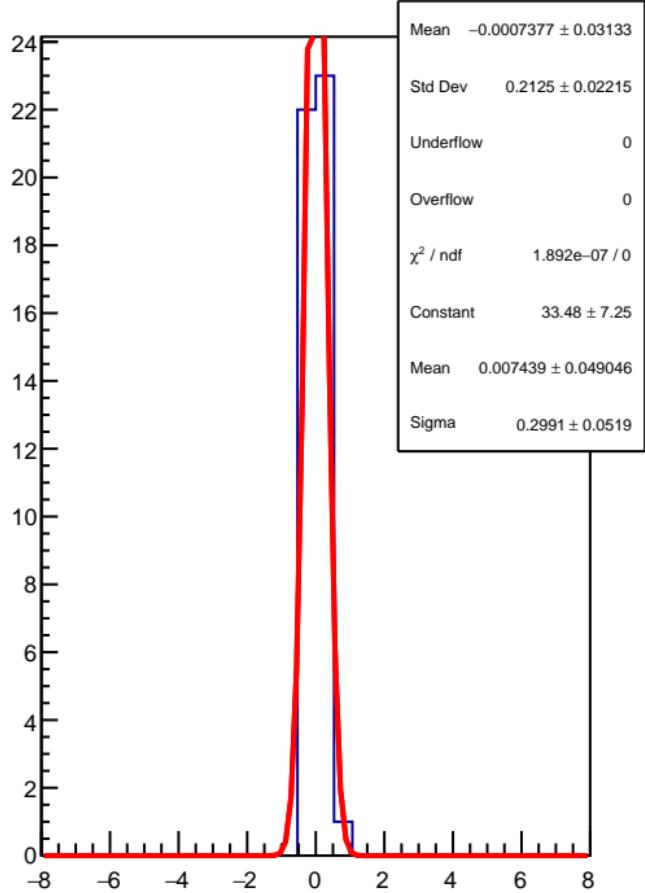


corr_usr_bpm12X (ppb)

χ^2 / ndf 2.077 / 45
p0 -12.19 ± 126.8

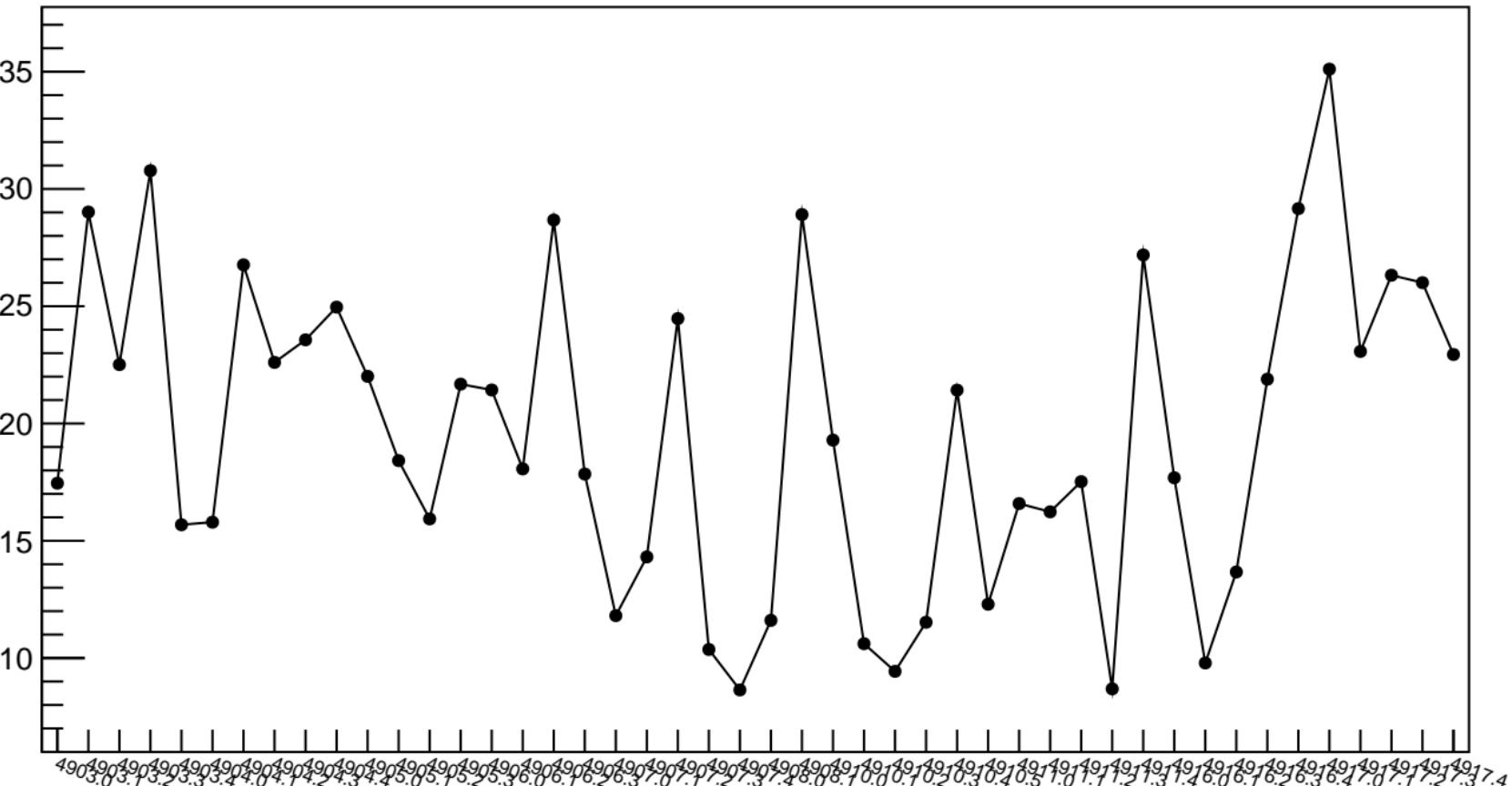


1D pull distribution

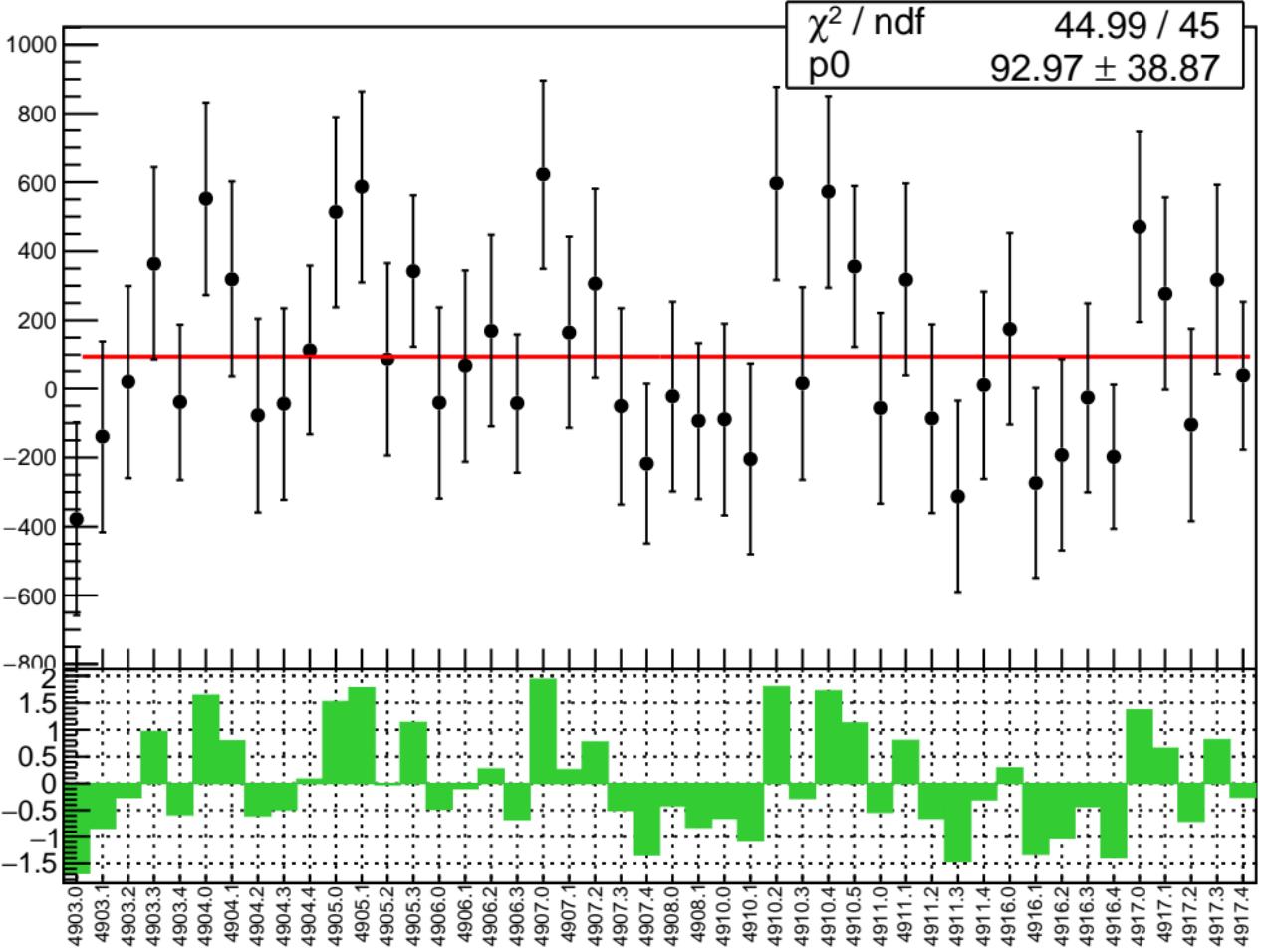


corr_usr_bpm12X RMS (ppm)

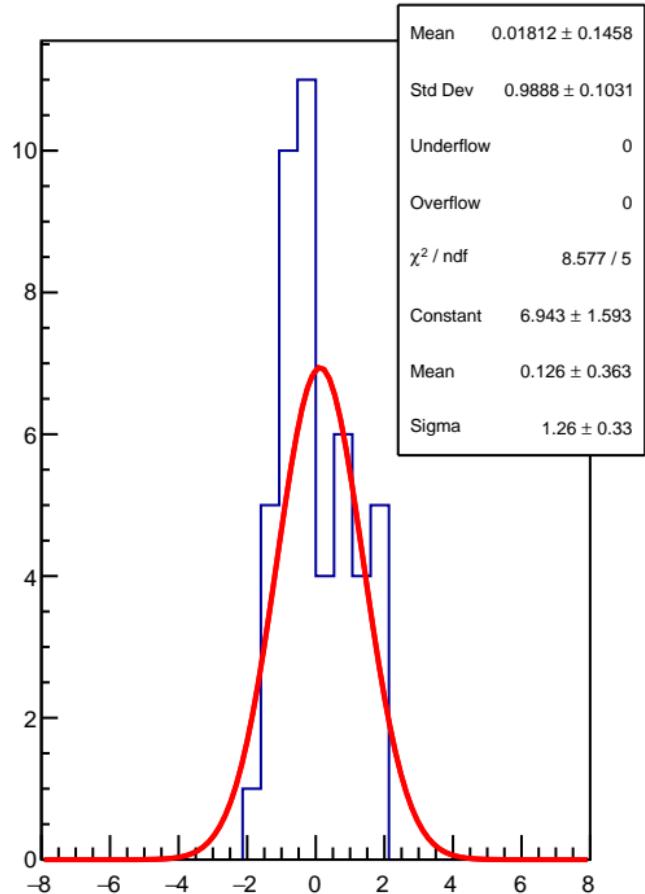
RMS (ppm)



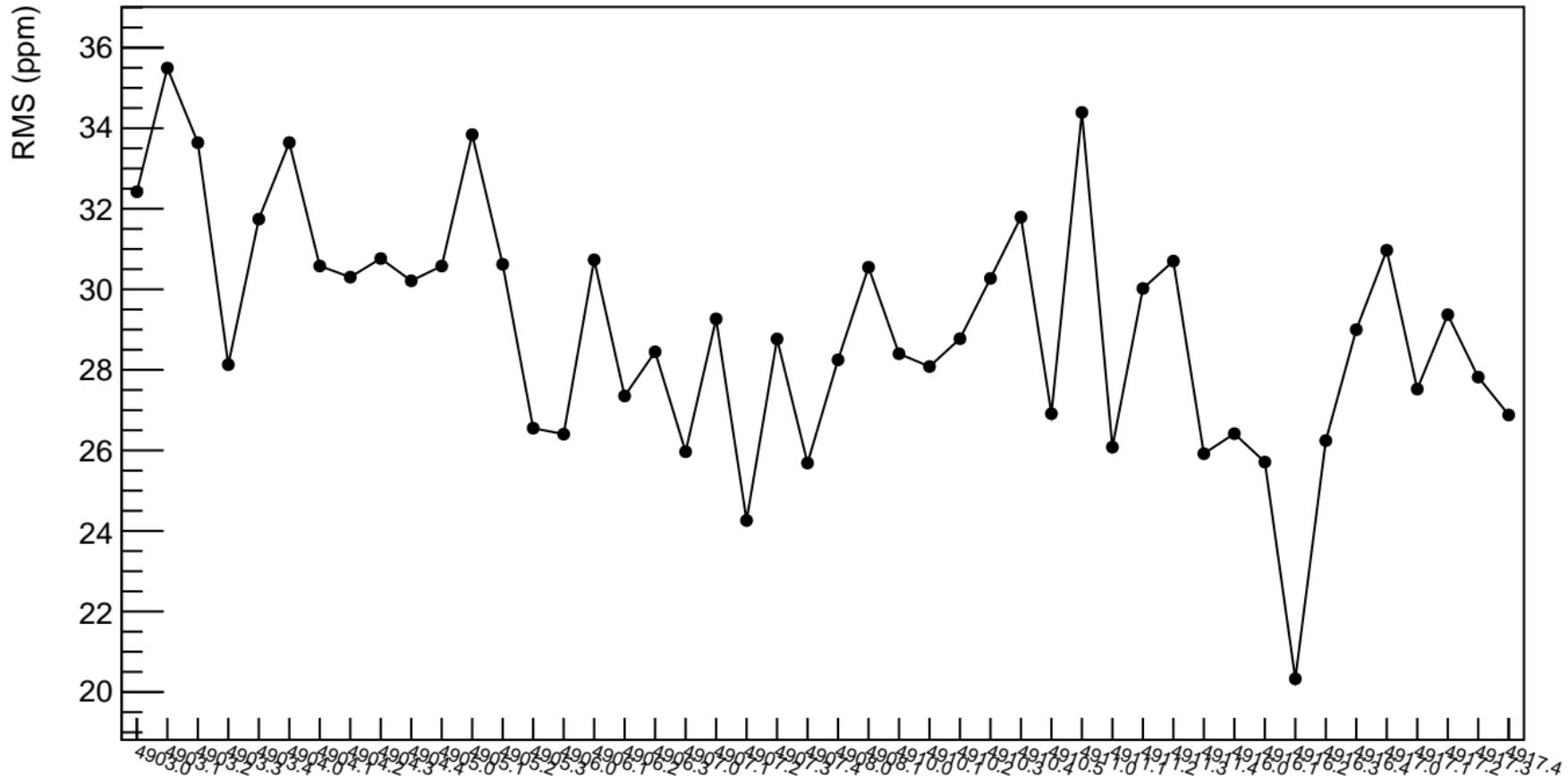
corr_usr_bpm12Y (ppb)



1D pull distribution

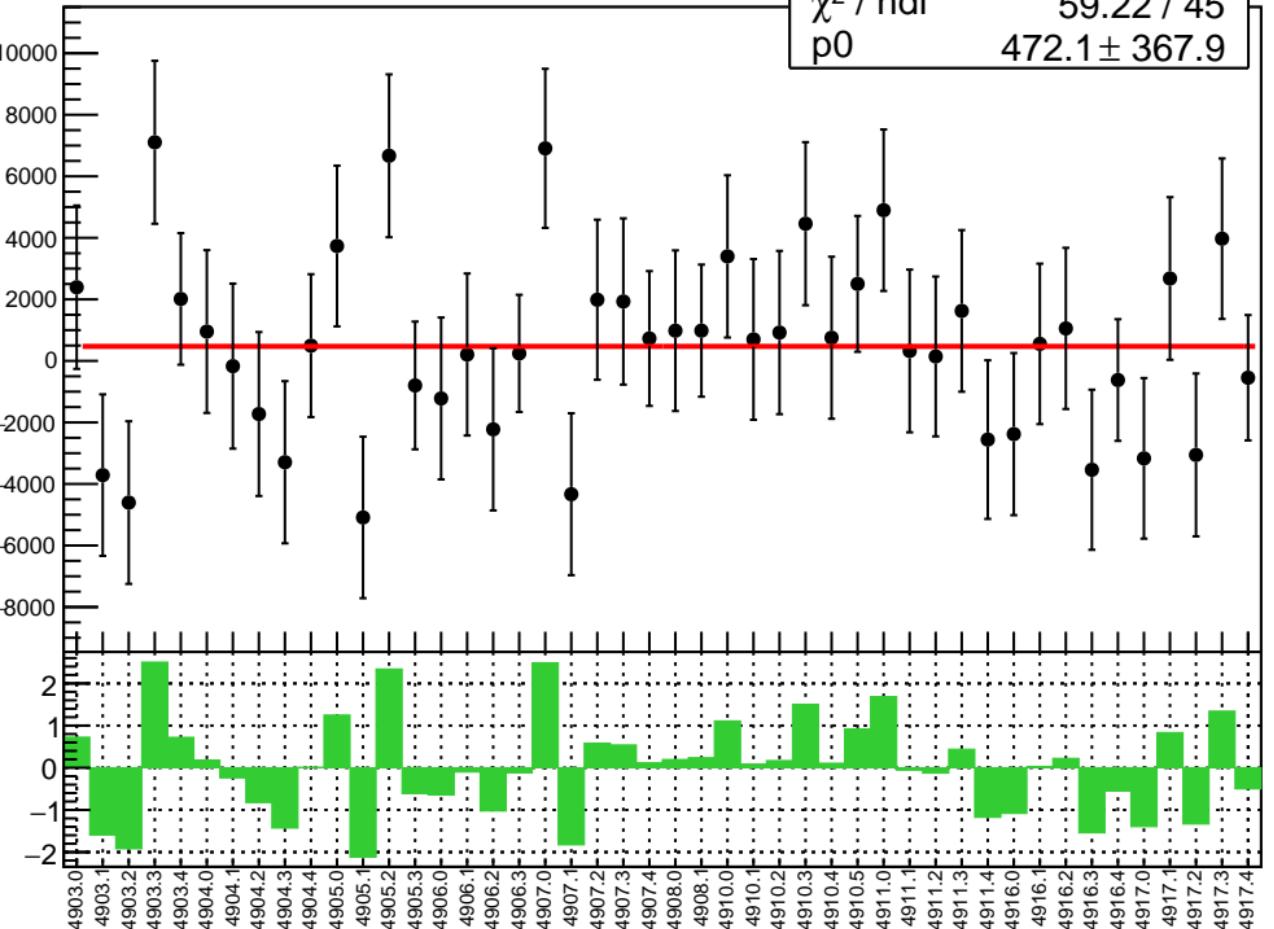


corr_usr_bpm12Y RMS (ppm)

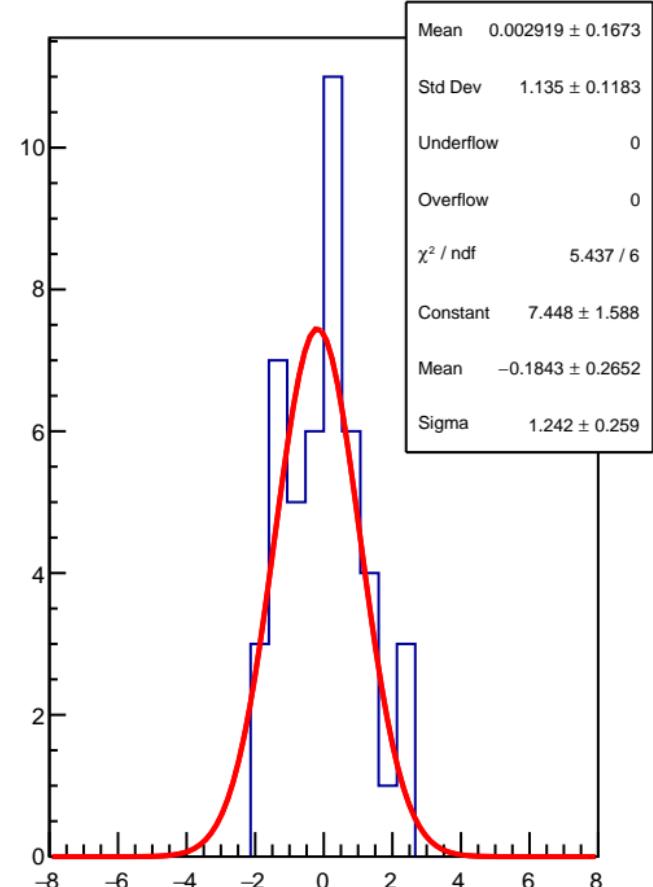


corr_usr_bpm11X (ppb)

χ^2 / ndf 59.22 / 45
p0 472.1 ± 367.9

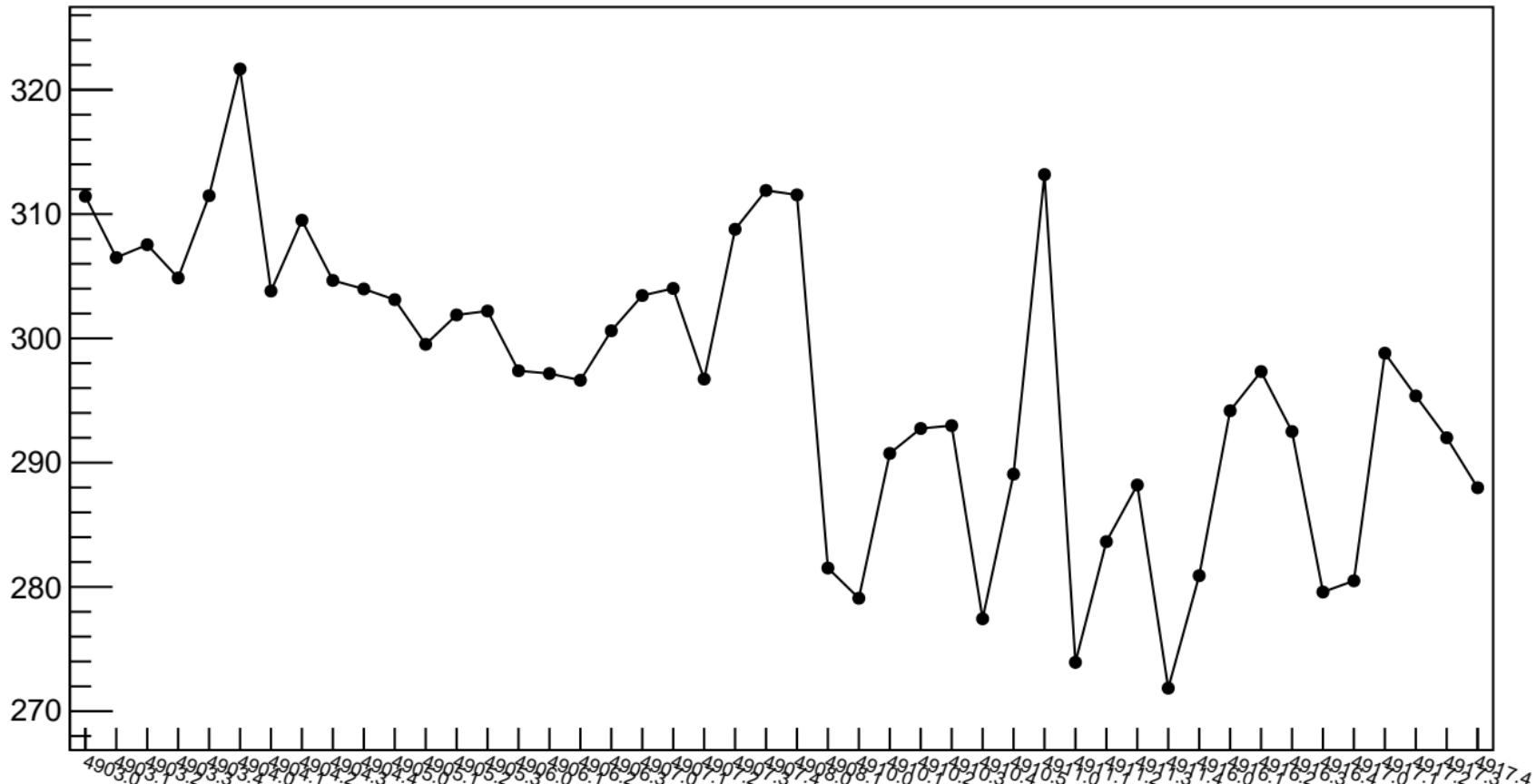


1D pull distribution



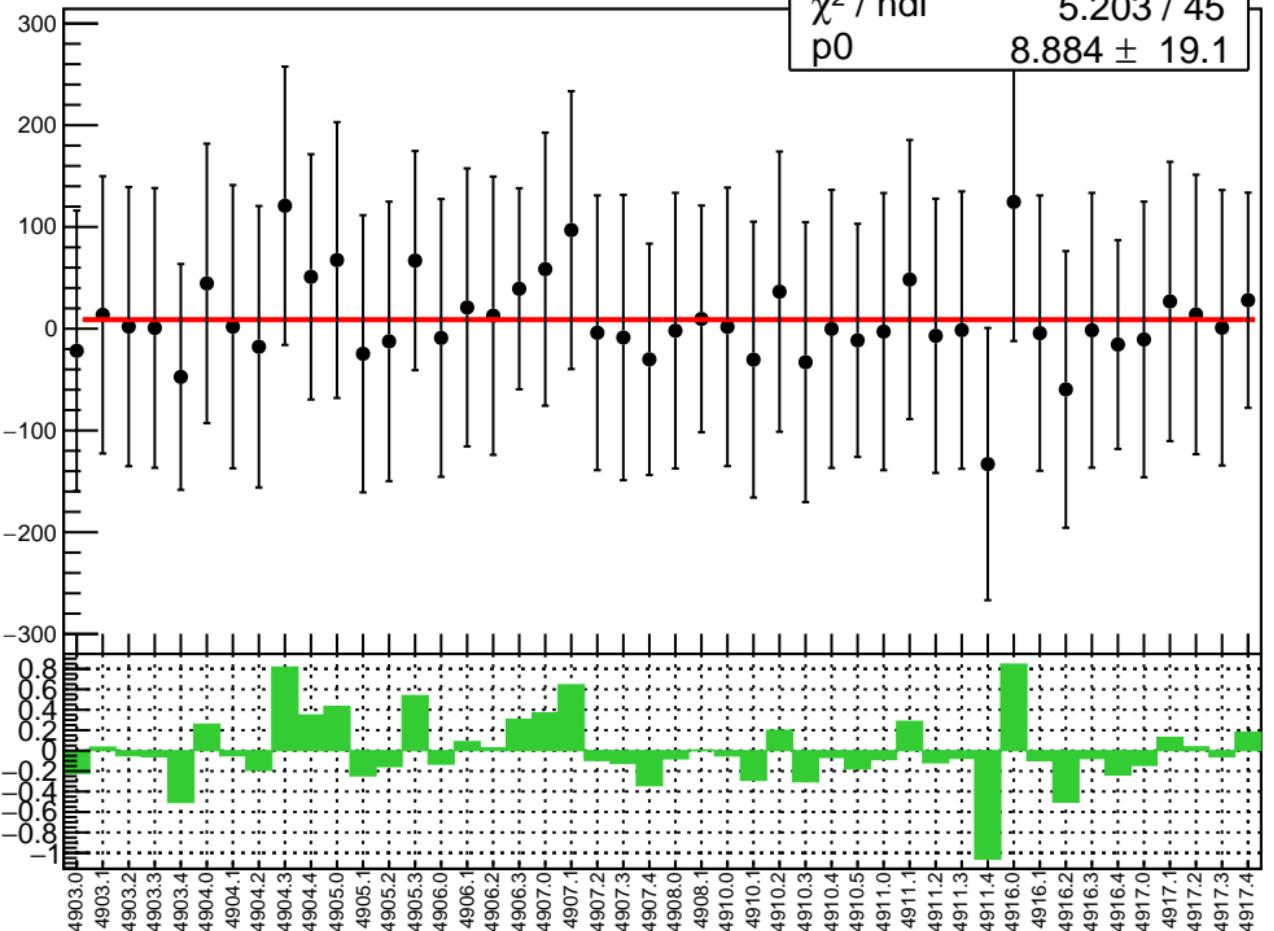
corr_usr_bpm11X RMS (ppm)

RMS (ppm)

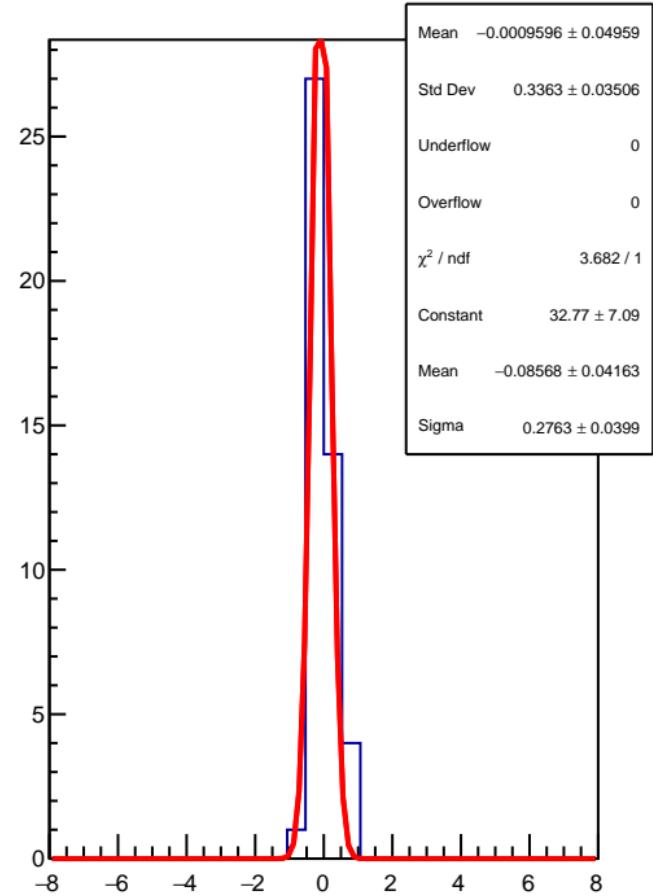


corr_usr_bpm11Y (ppb)

χ^2 / ndf
5.203 / 45
 p_0
 8.884 ± 19.1

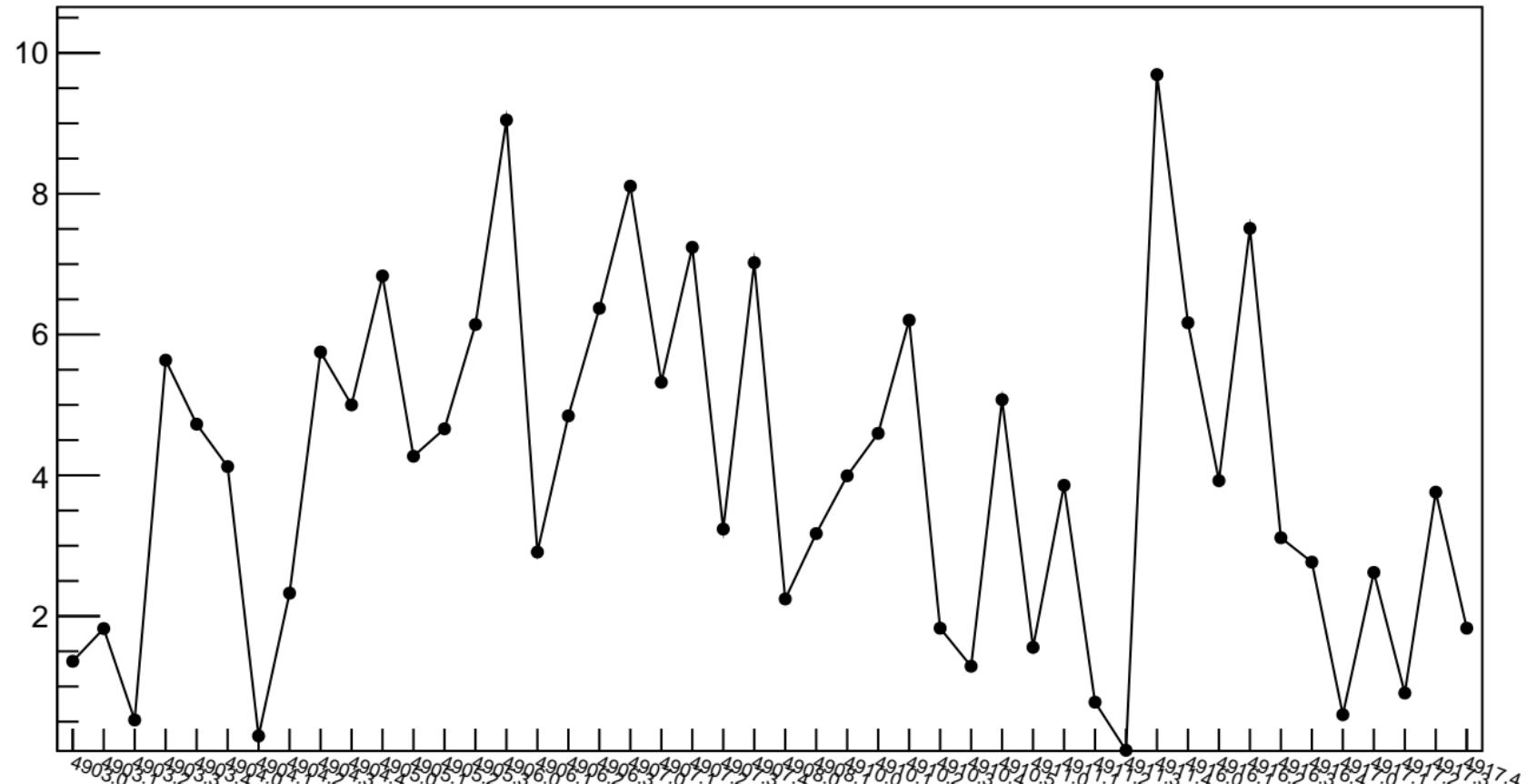


1D pull distribution

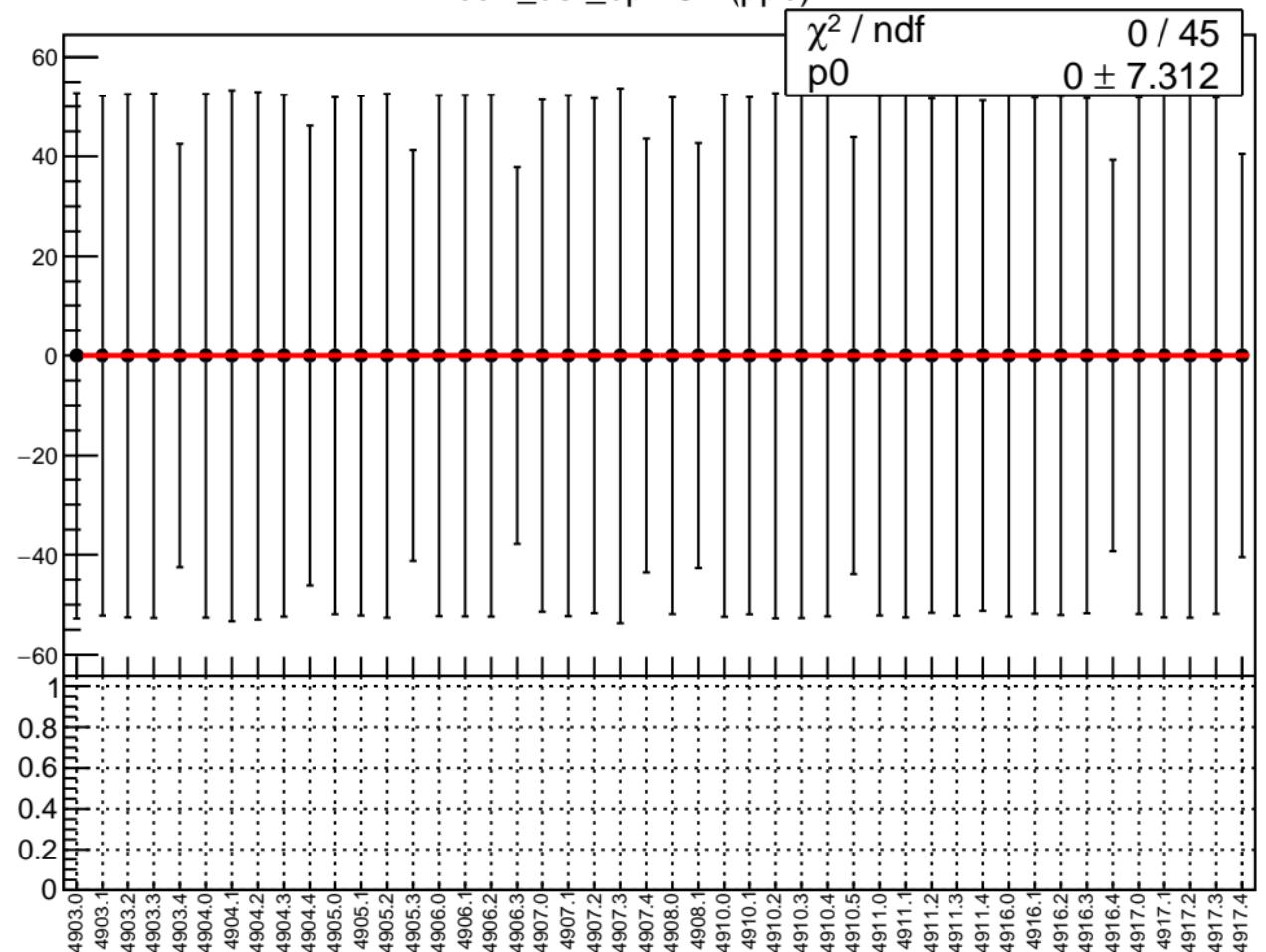


corr_usr_bpm11Y RMS (ppm)

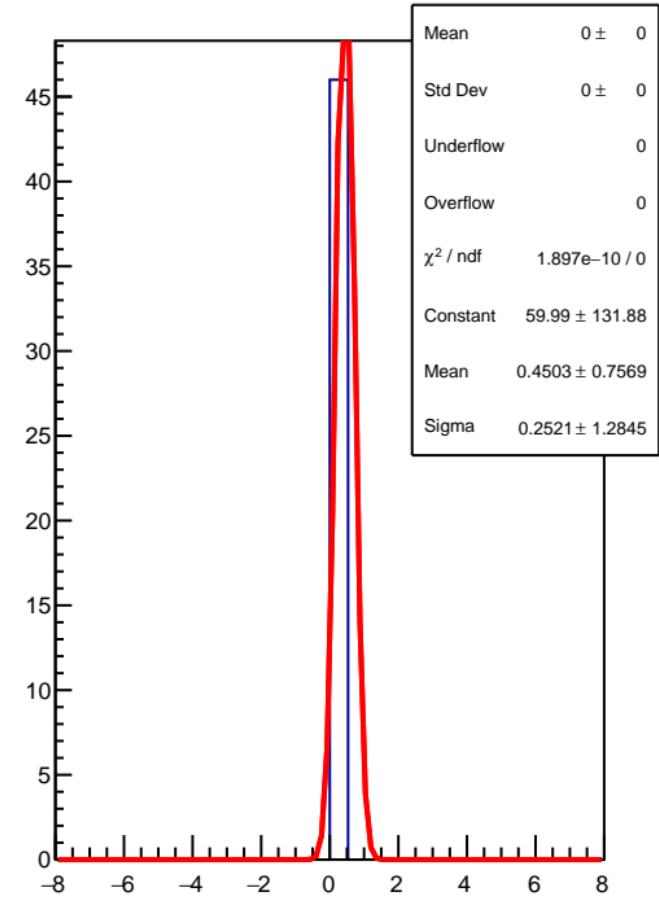
RMS (ppm)



corr_usr_bpm8X (ppb)

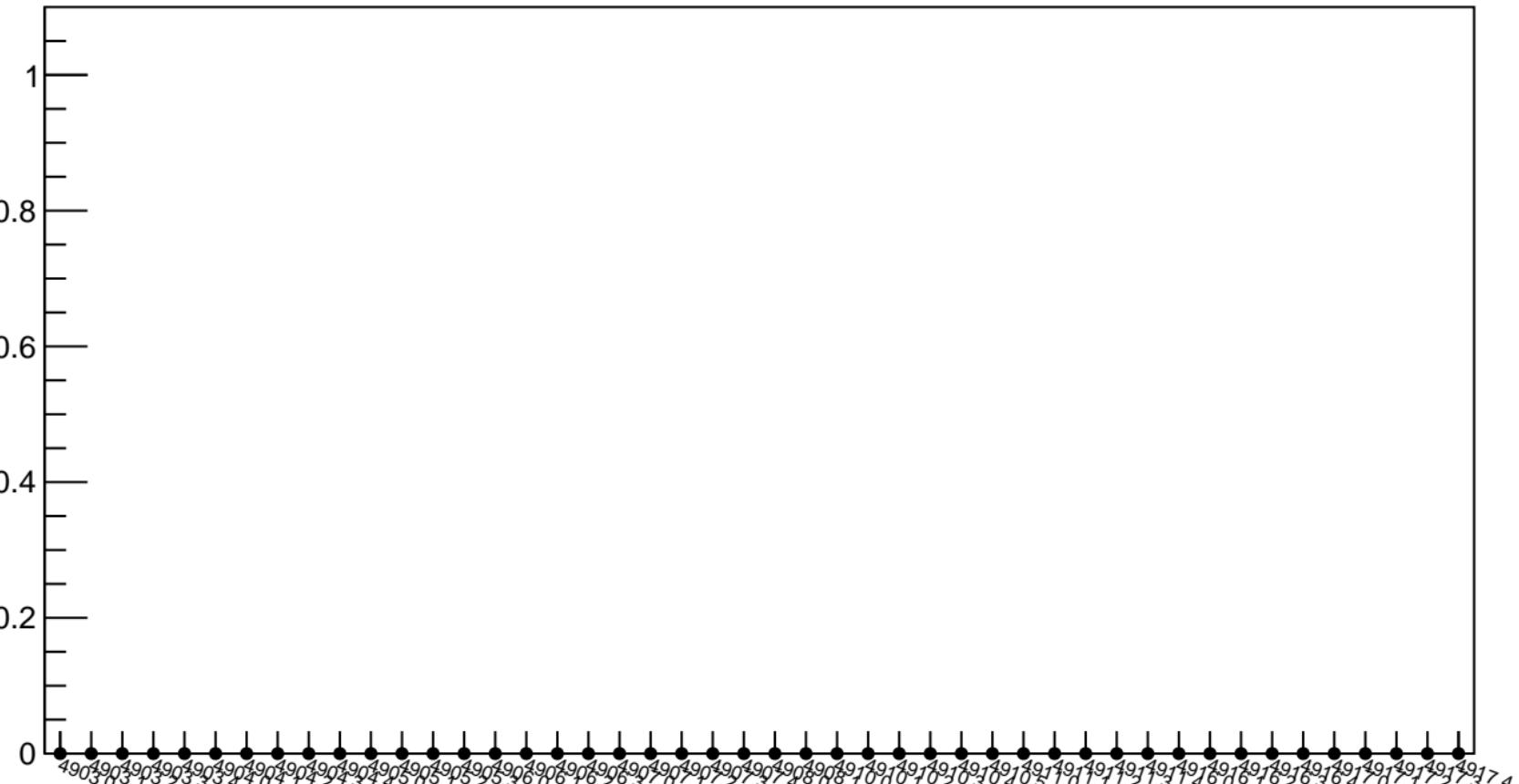


1D pull distribution

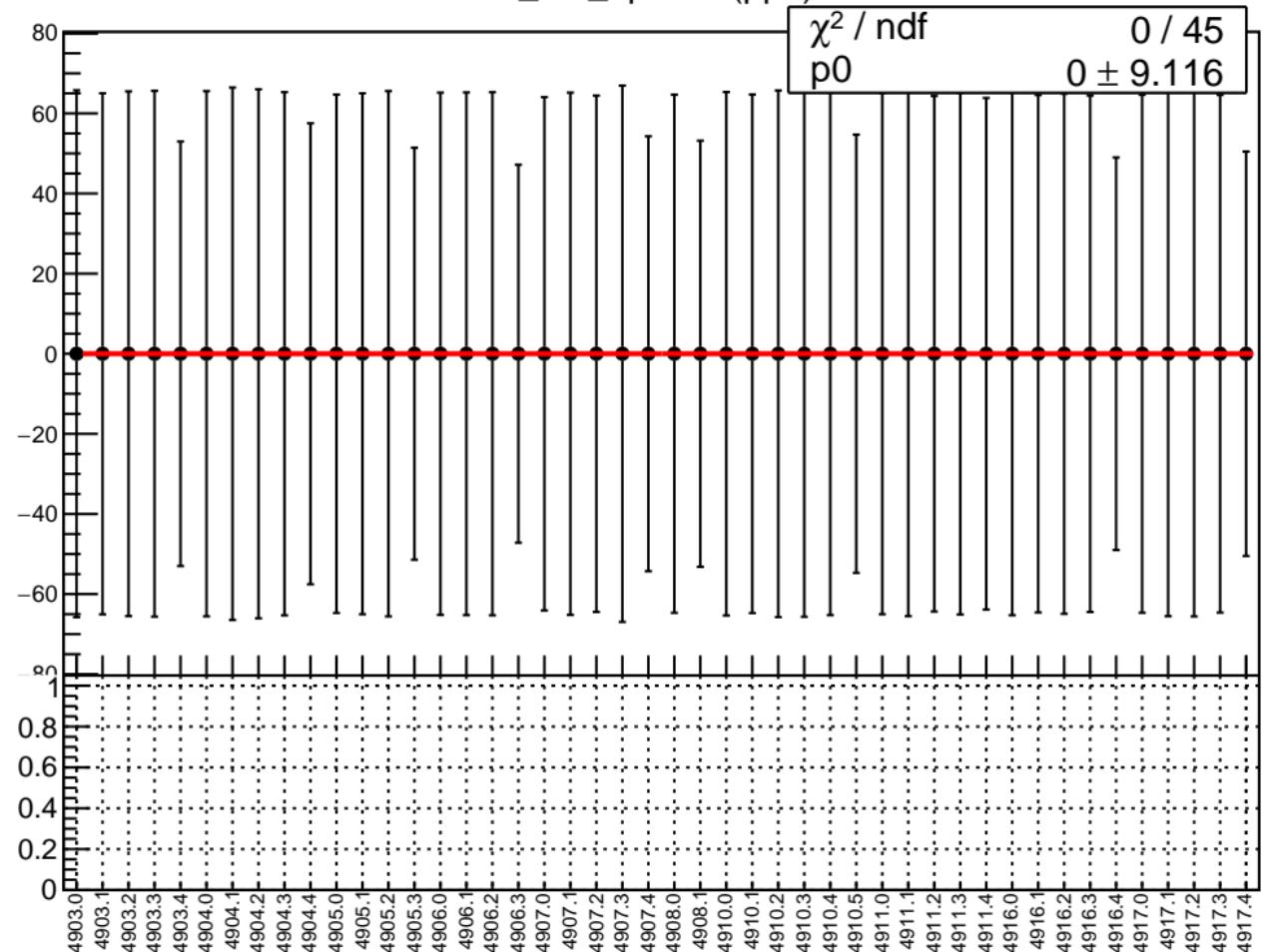


corr_usr_bpm8X RMS (ppm)

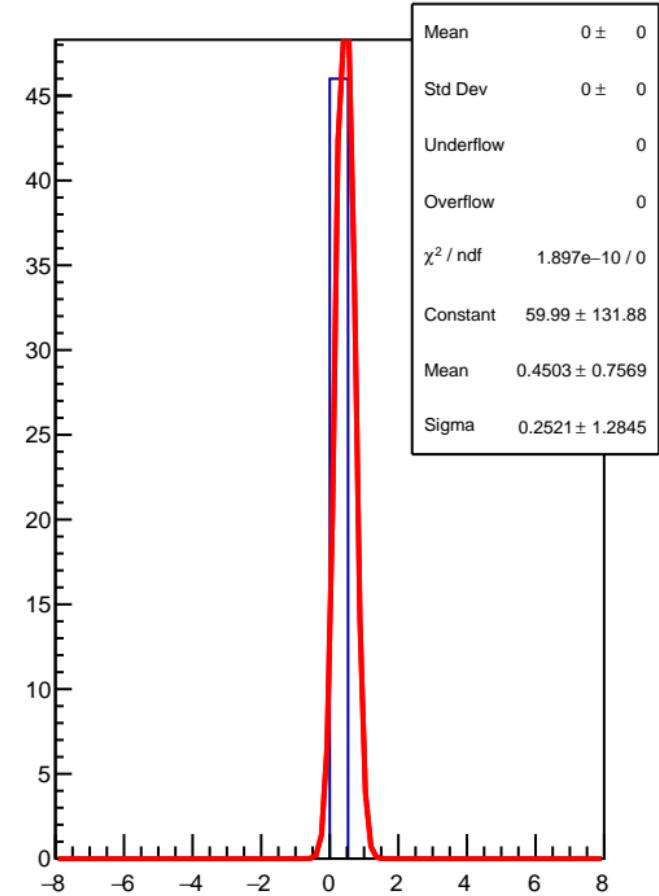
RMS (ppm)



corr_usr_bpm8Y (ppb)



1D pull distribution



corr_usr_bpm8Y RMS (ppm)

RMS (ppm)

