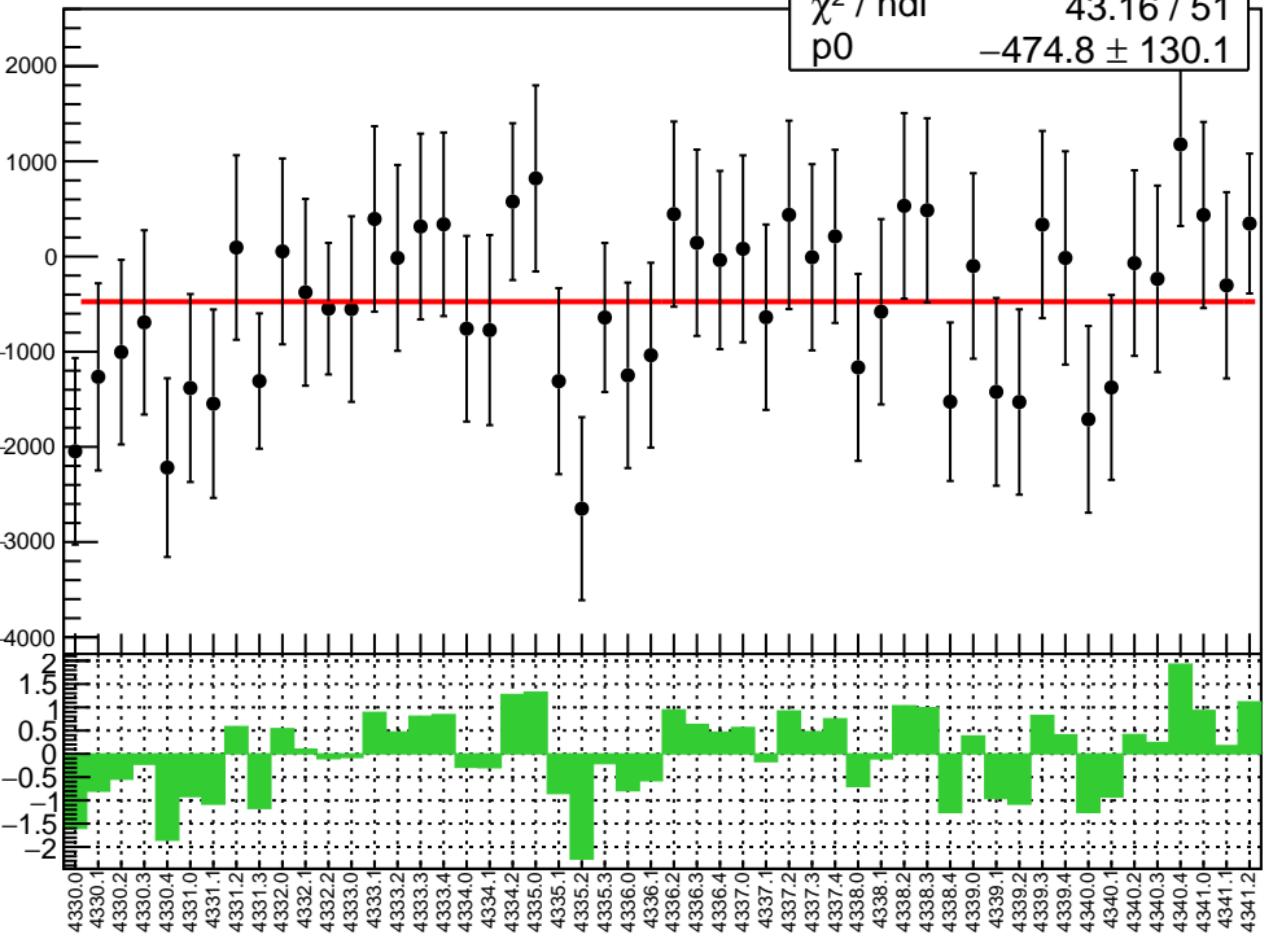


Adet (ppb)

$\chi^2 / \text{ndf}$

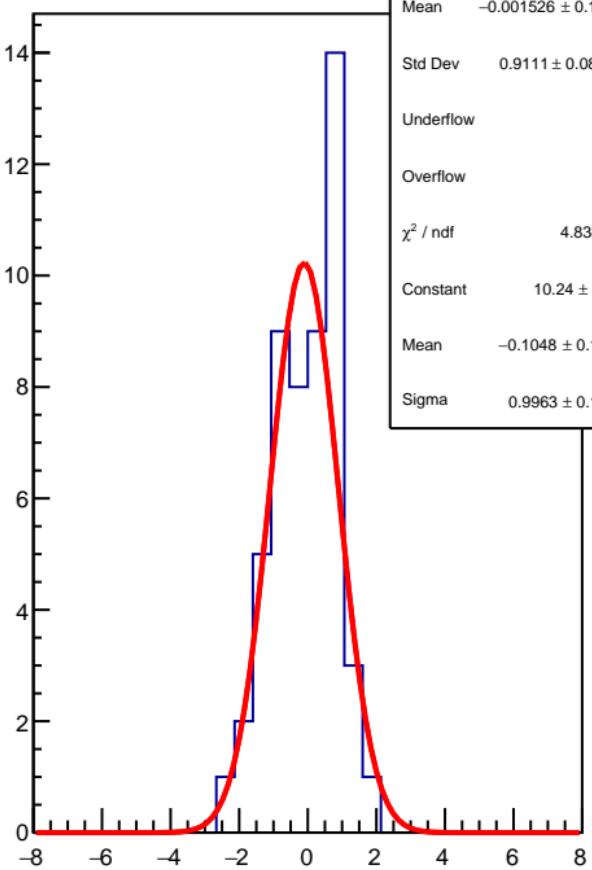
43.16 / 51

$p_0$   
 $-474.8 \pm 130.1$



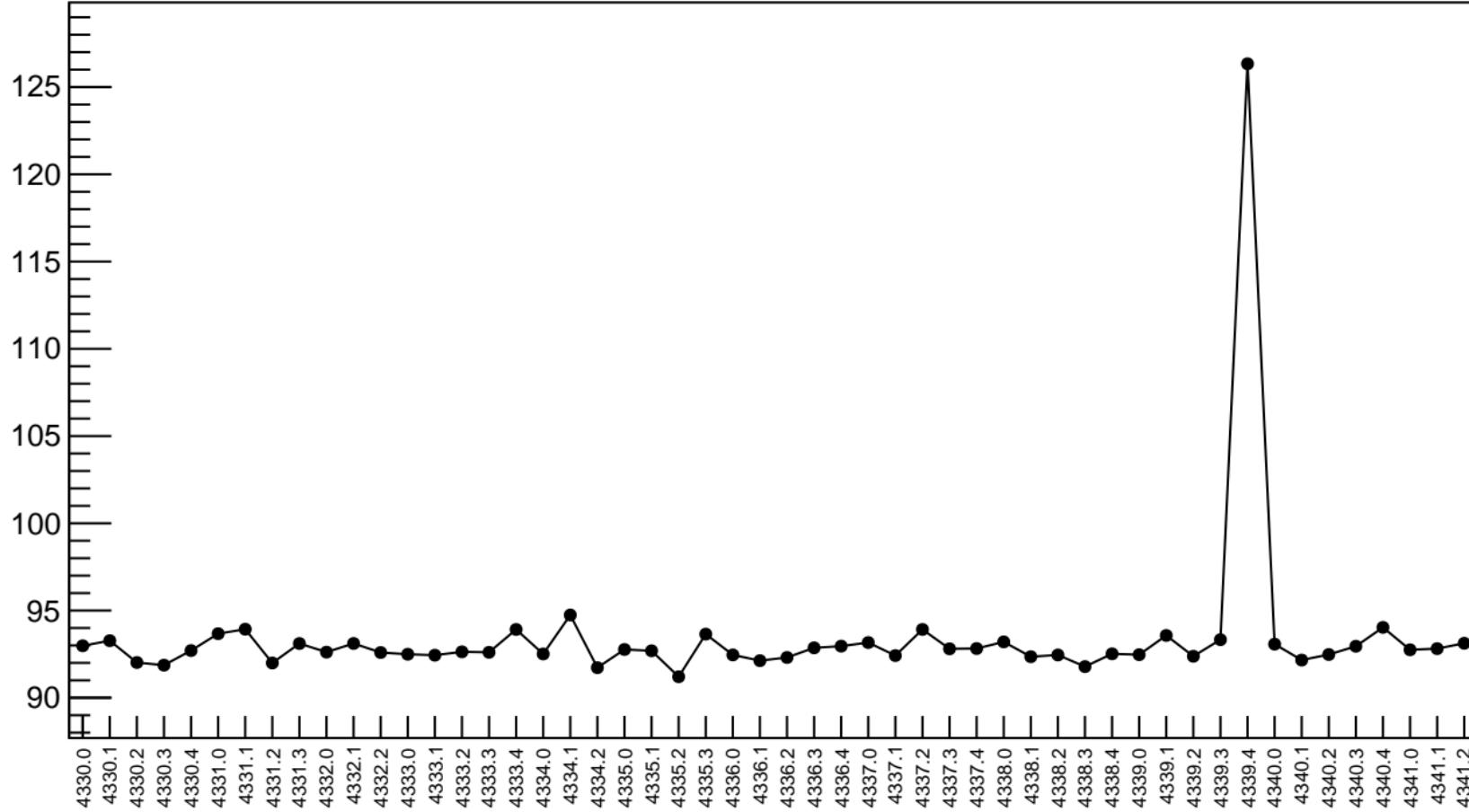
1D pull distribution

Mean	$-0.001526 \pm 0.1263$
Std Dev	$0.9111 \pm 0.08934$
Underflow	0
Overflow	0
$\chi^2 / \text{ndf}$	4.838 / 6
Constant	$10.24 \pm 1.86$
Mean	$-0.1048 \pm 0.1561$
Sigma	$0.9963 \pm 0.1201$

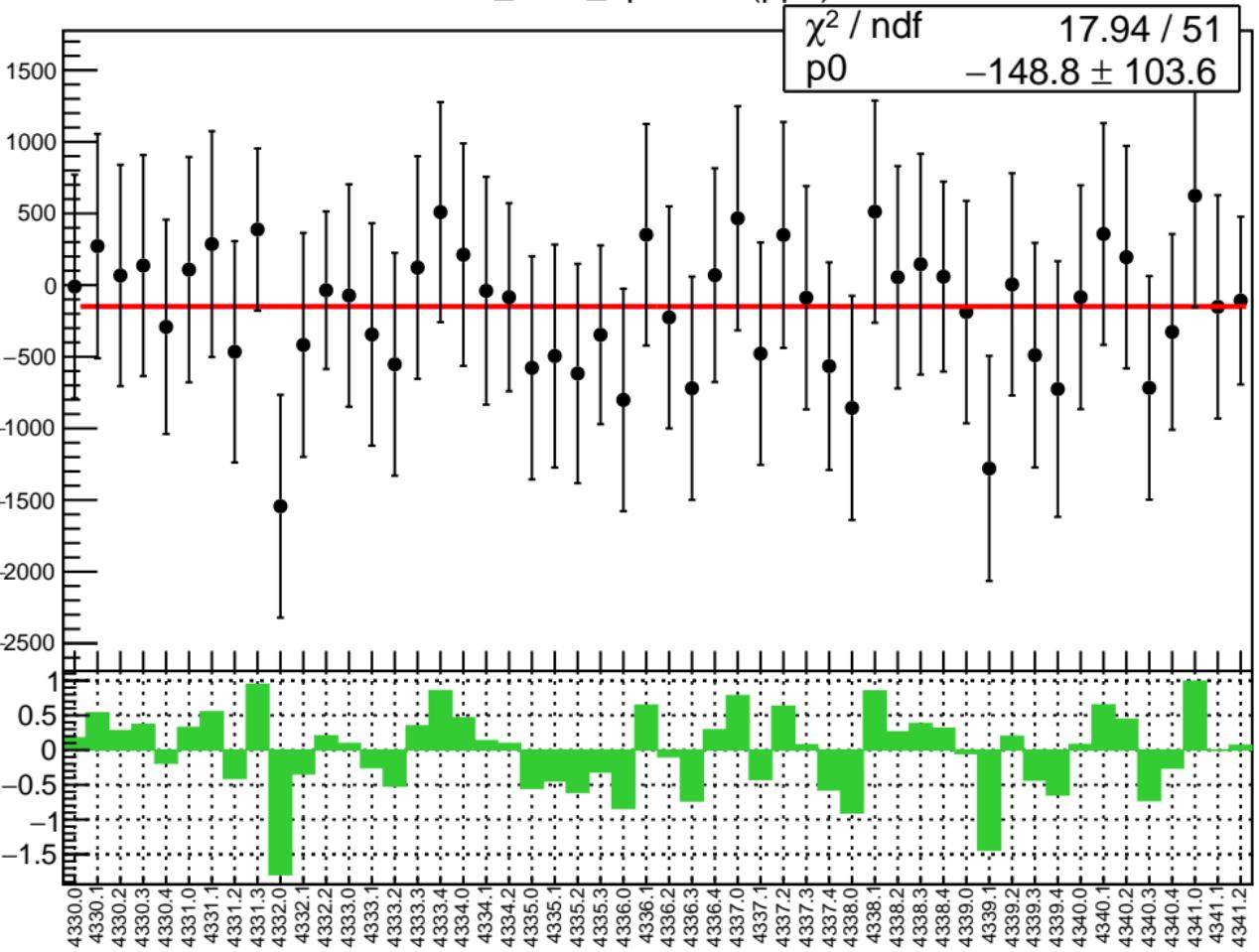


# Adet RMS (ppm)

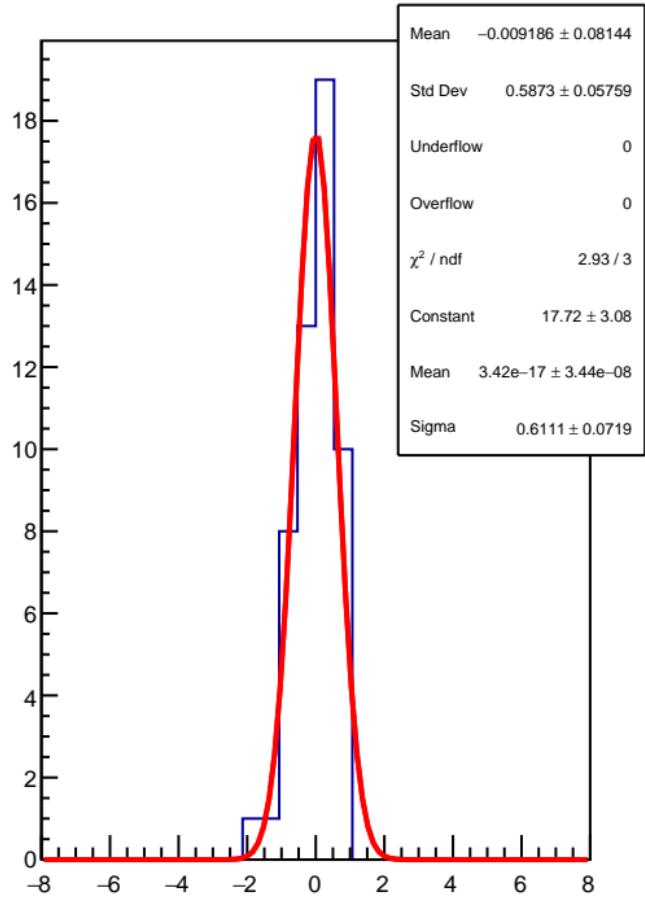
RMS (ppm)



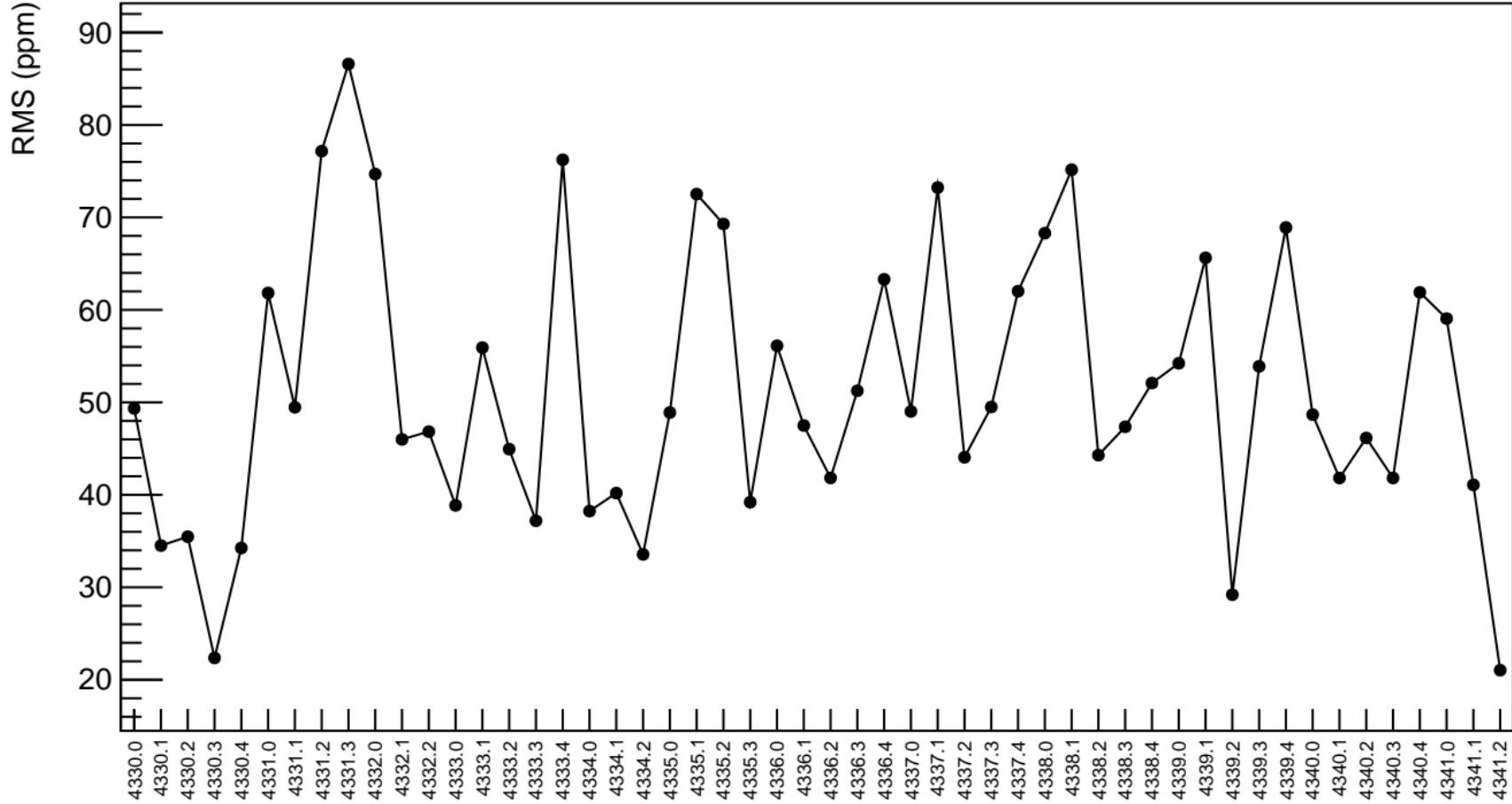
corr\_Adet\_bpm4eX (ppb)



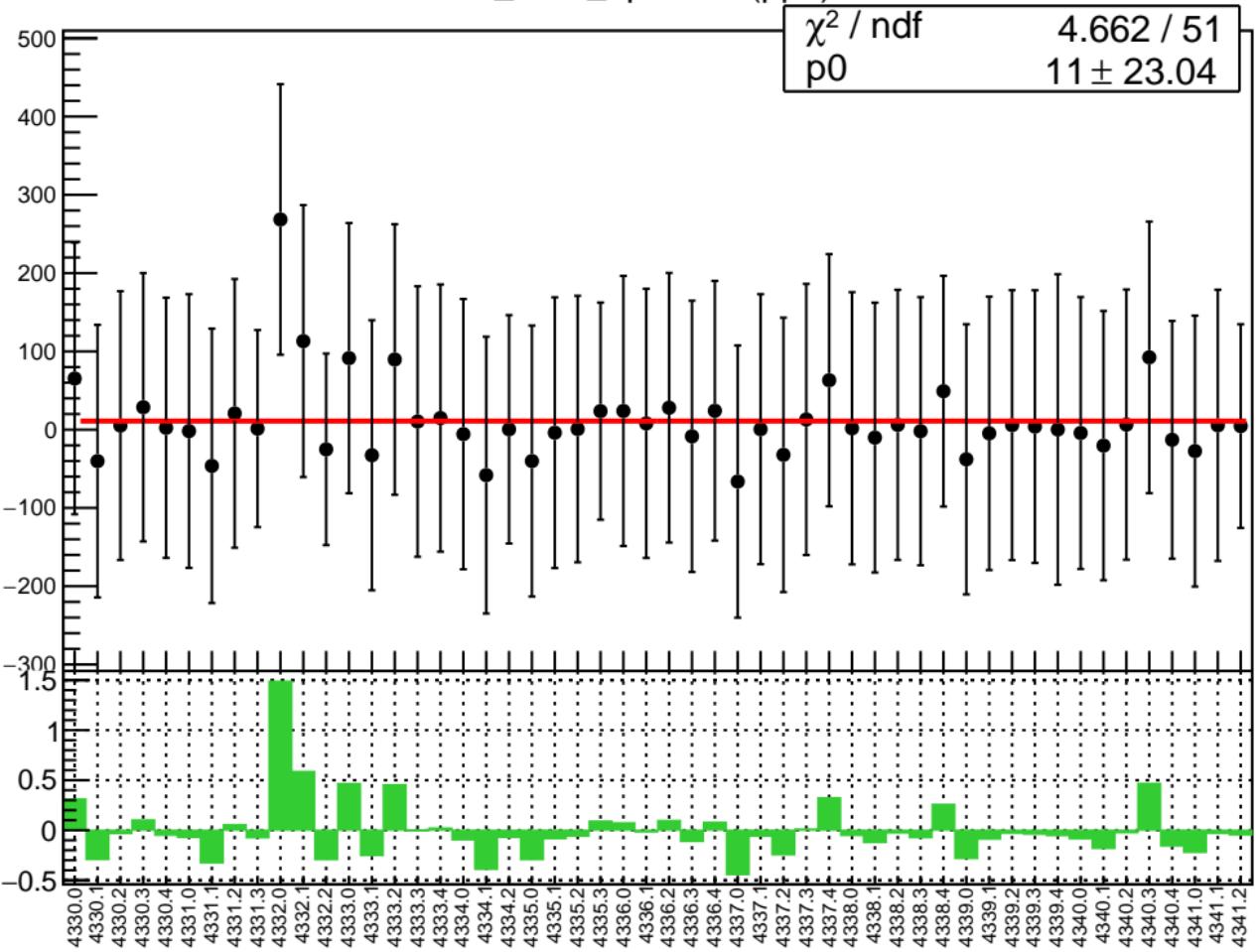
1D pull distribution



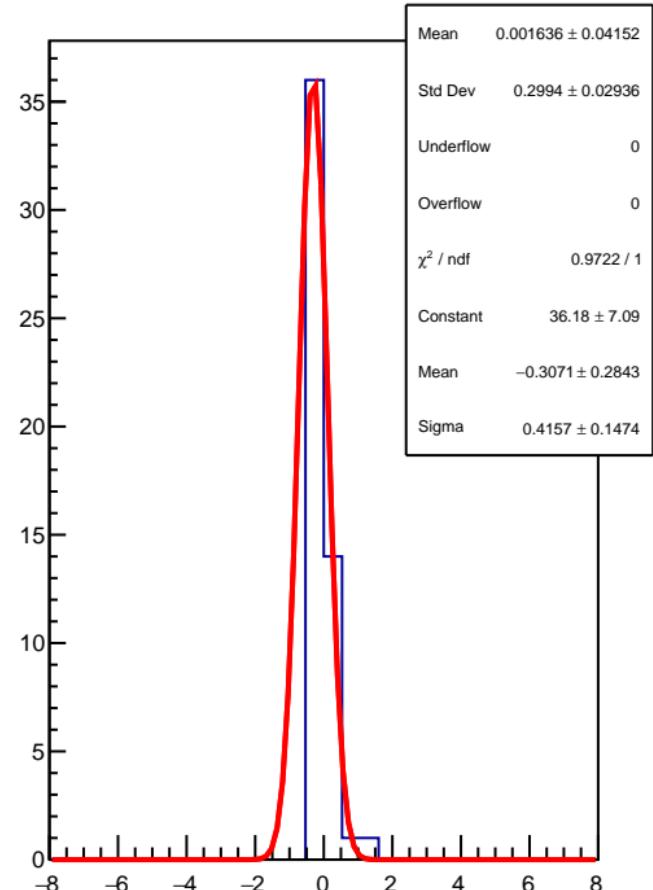
# corr\_Adet\_bpm4eX RMS (ppm)



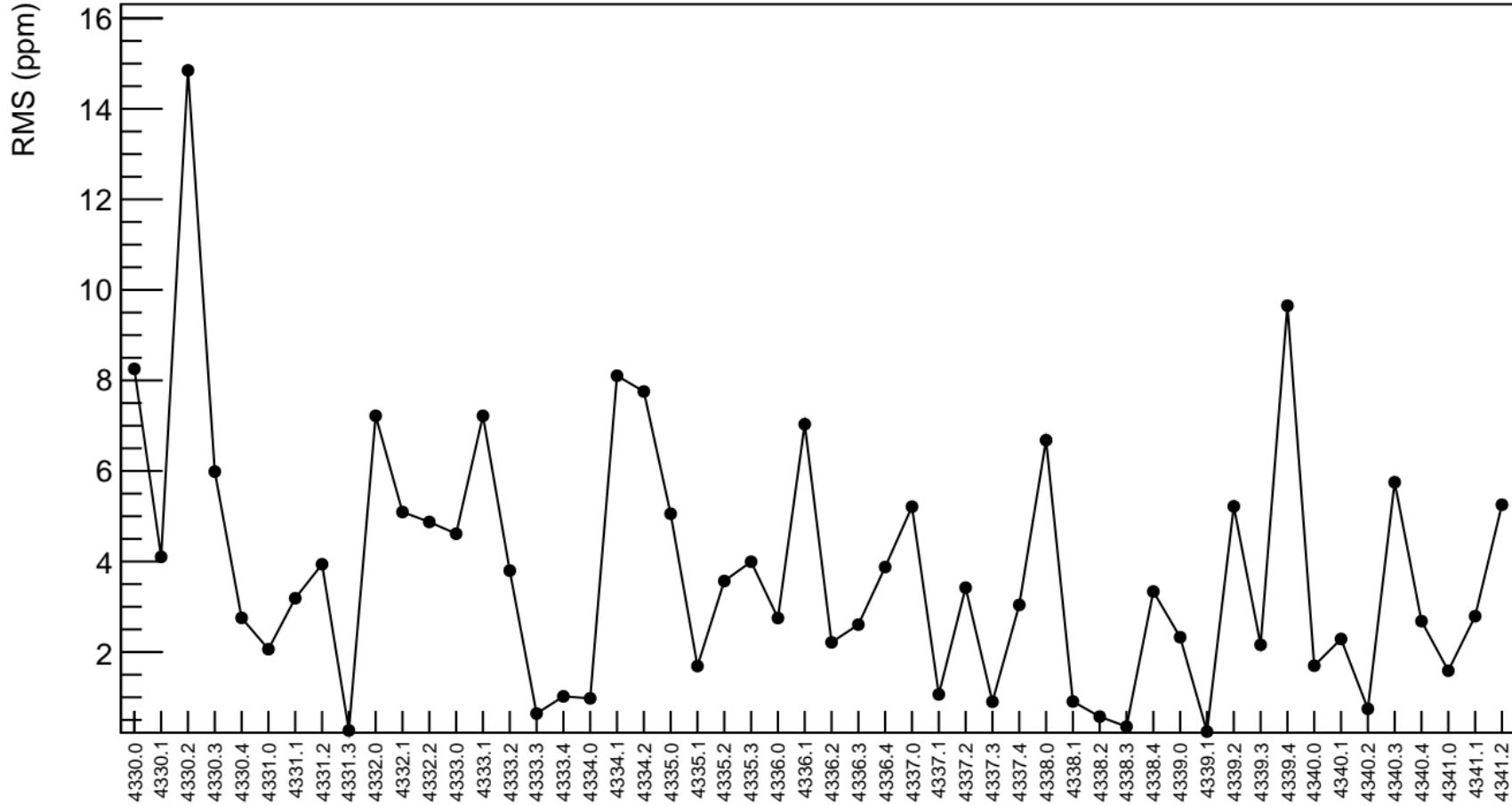
corr\_Adet\_bpm4eY (ppb)



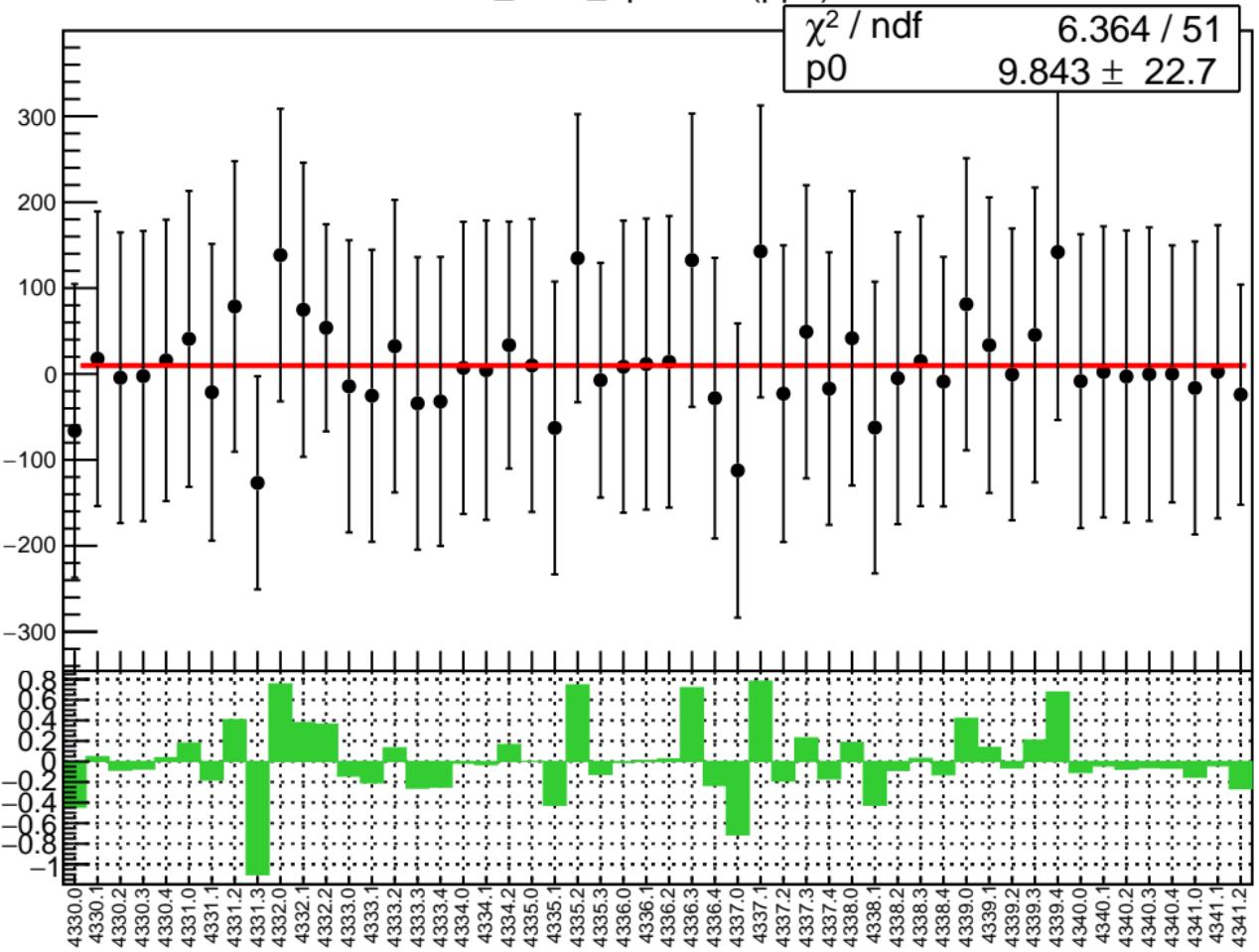
1D pull distribution



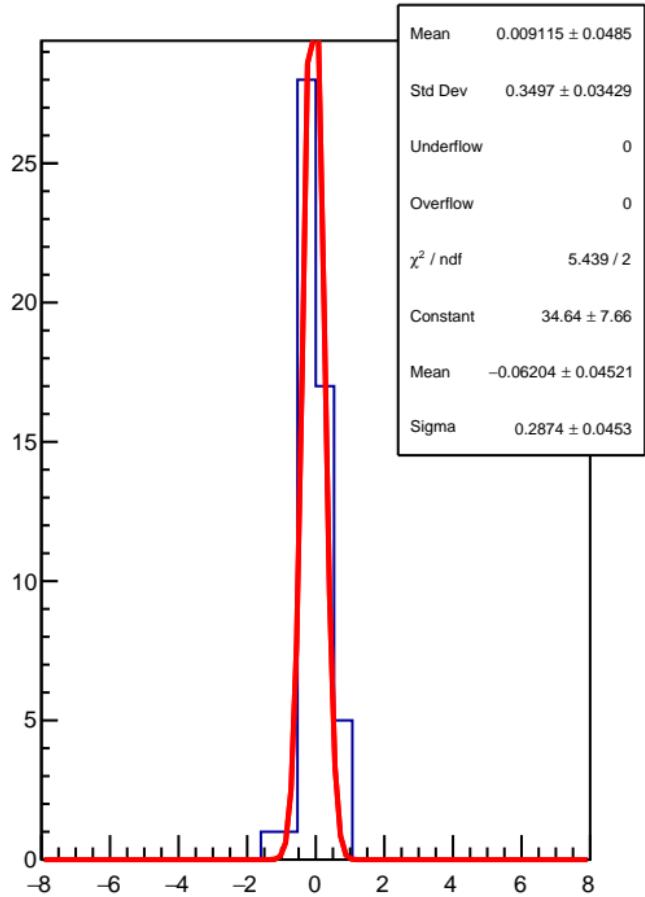
# corr\_Adet\_bpm4eY RMS (ppm)



corr\_Adet\_bpm4aX (ppb)

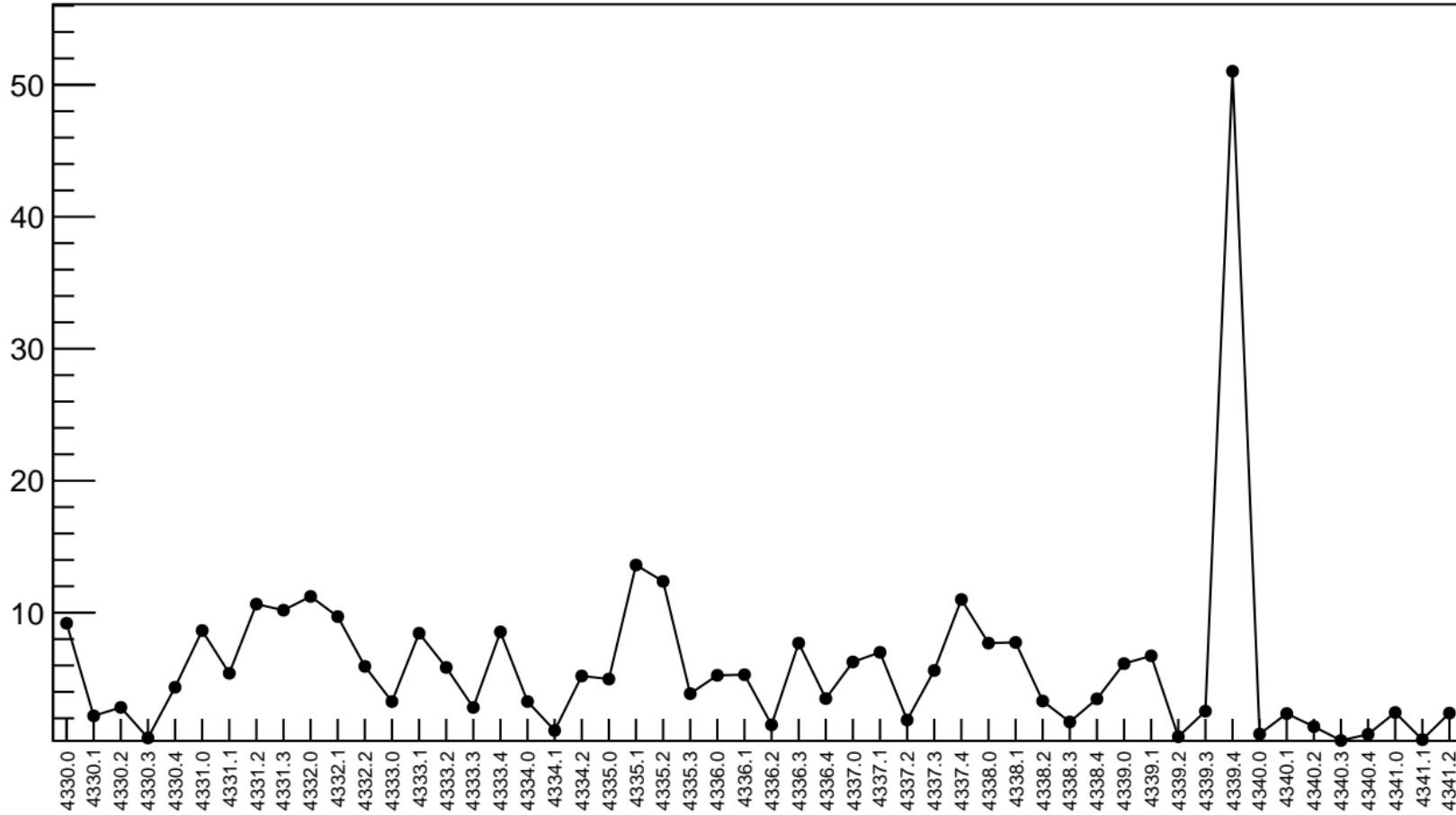


1D pull distribution



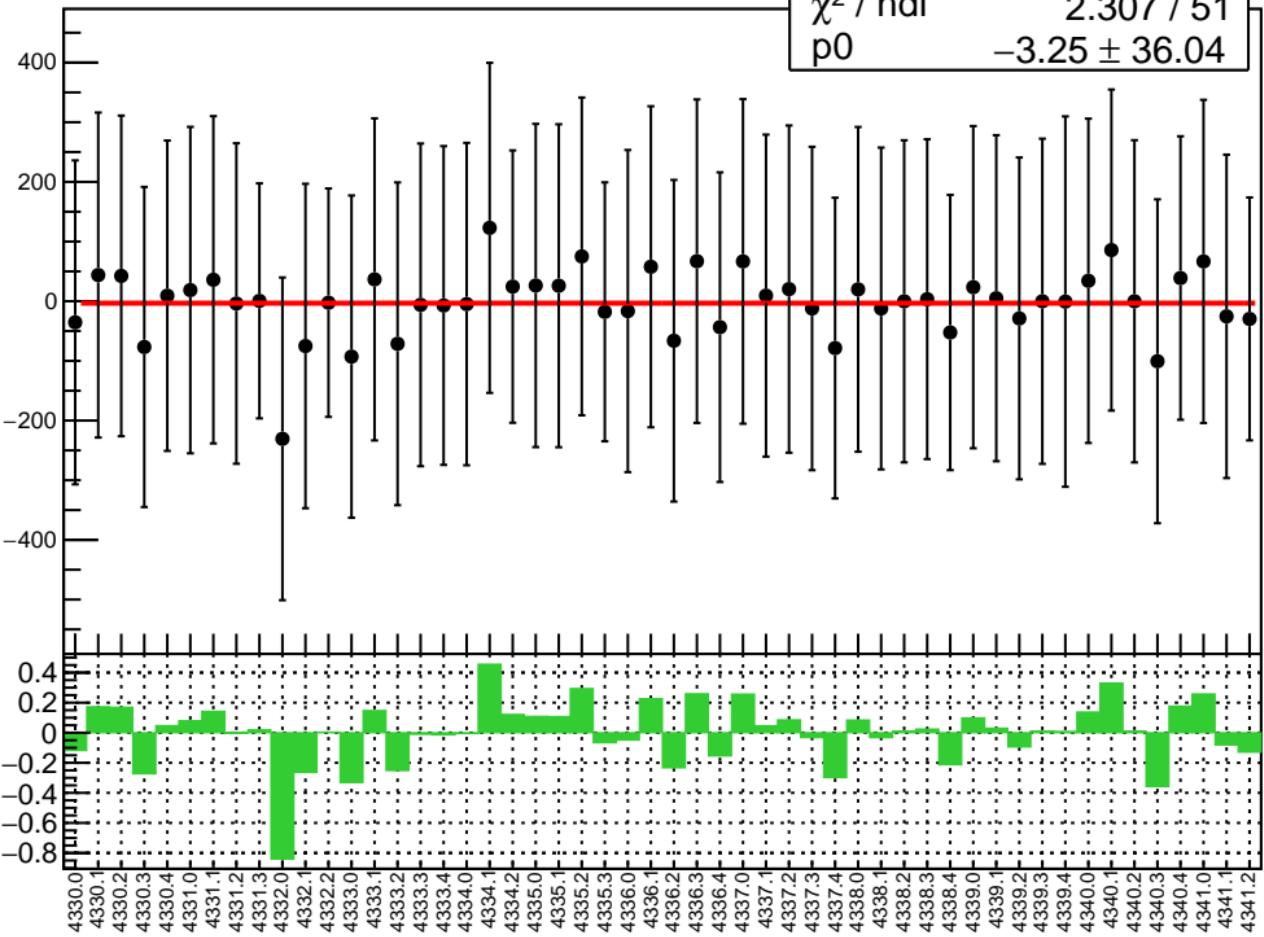
# corr\_Adet\_bpm4aX RMS (ppm)

RMS (ppm)

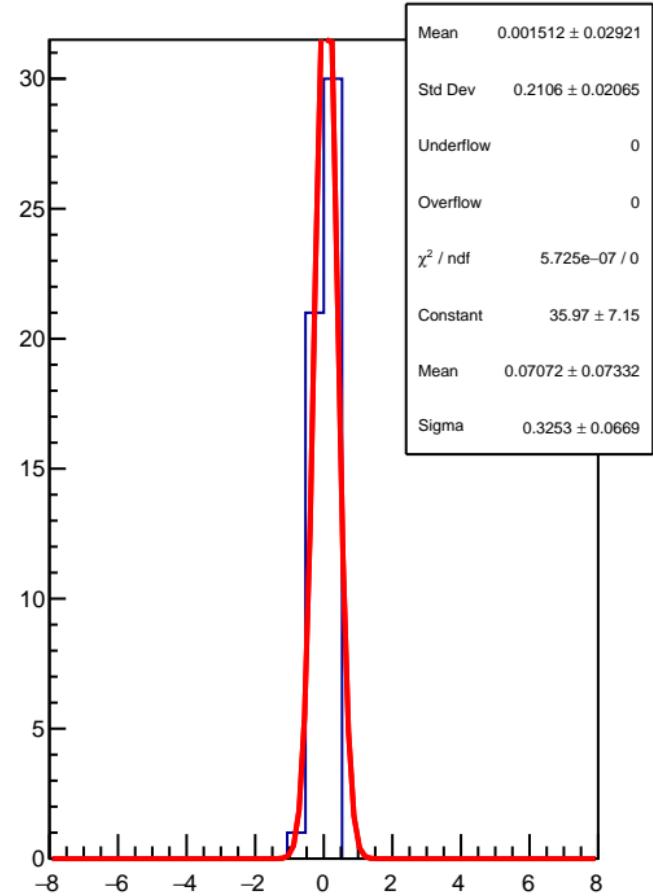


corr\_Adet\_bpm4aY (ppb)

$\chi^2 / \text{ndf}$  2.307 / 51  
 $p_0$   $-3.25 \pm 36.04$

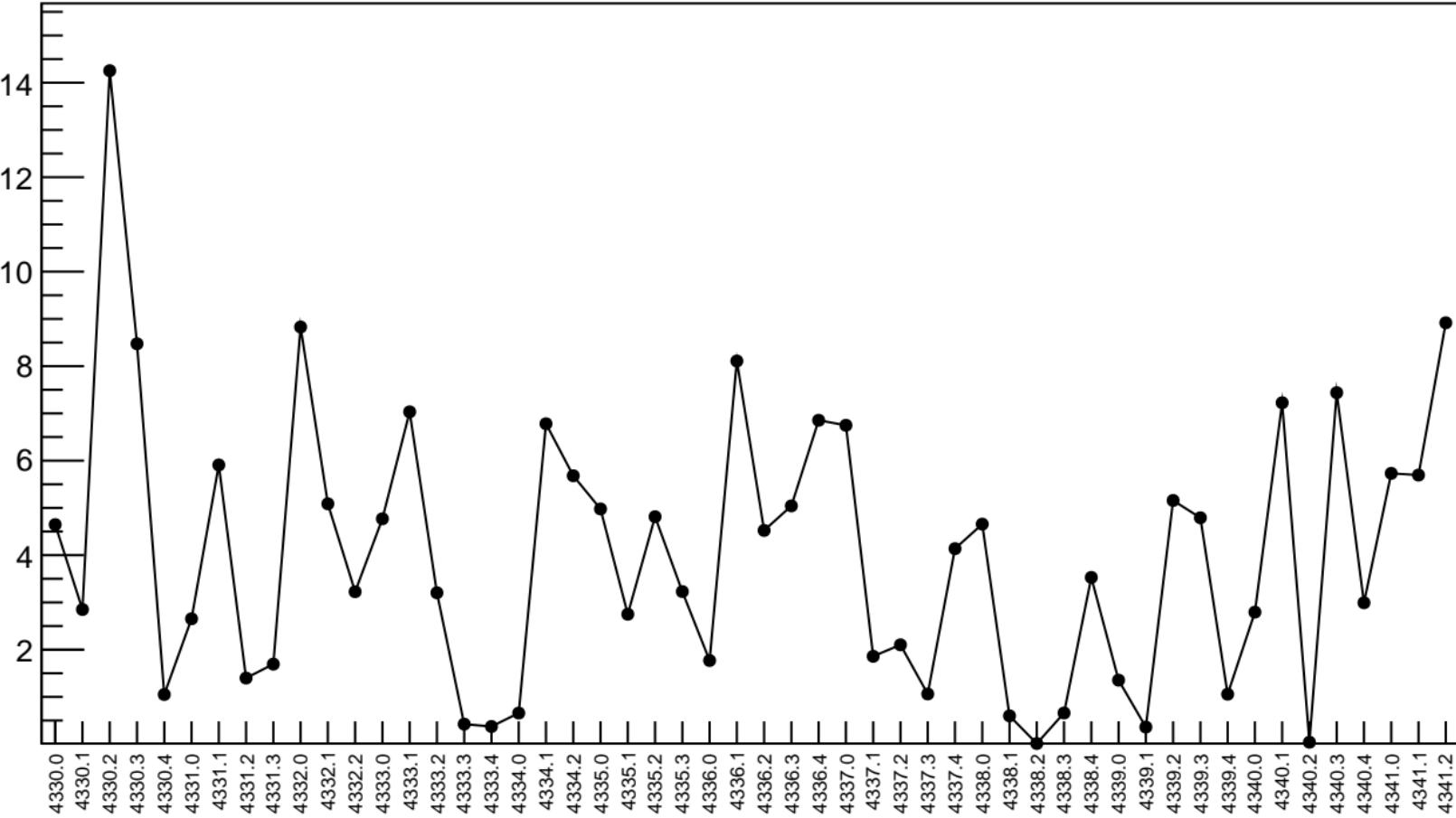


1D pull distribution

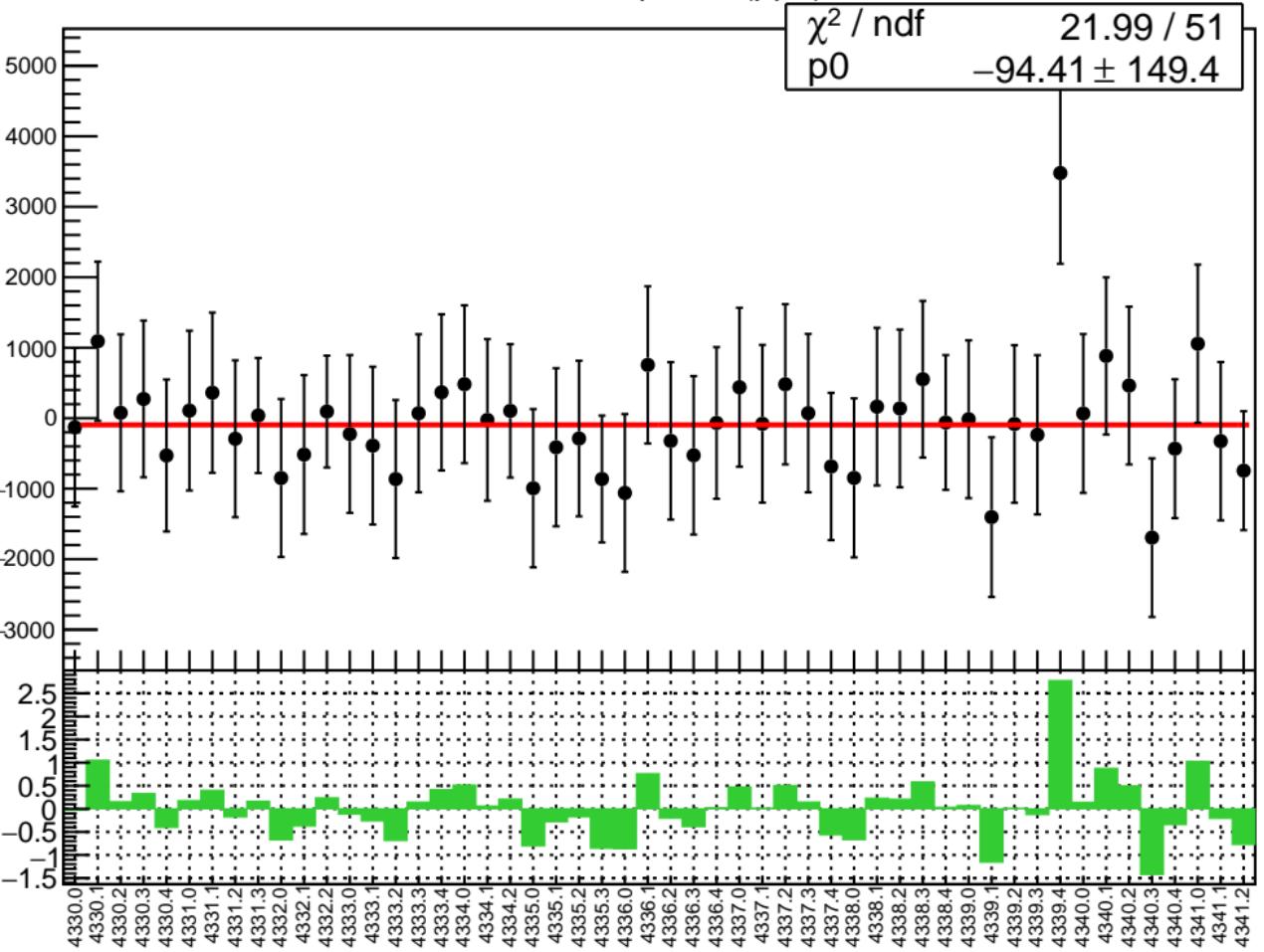


# corr\_Adet\_bpm4aY RMS (ppm)

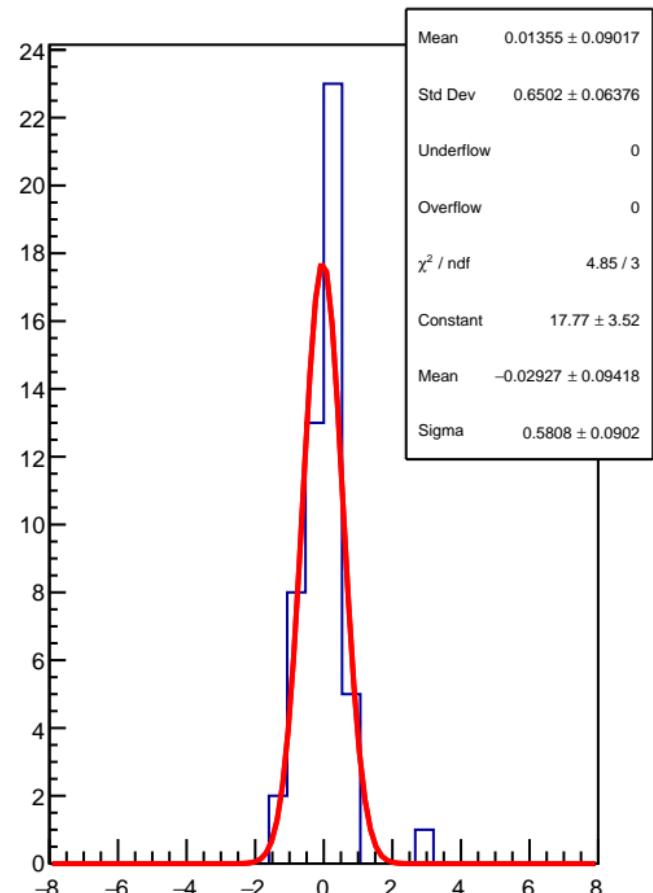
RMS (ppm)



corr\_Adet\_bpm1X (ppb)

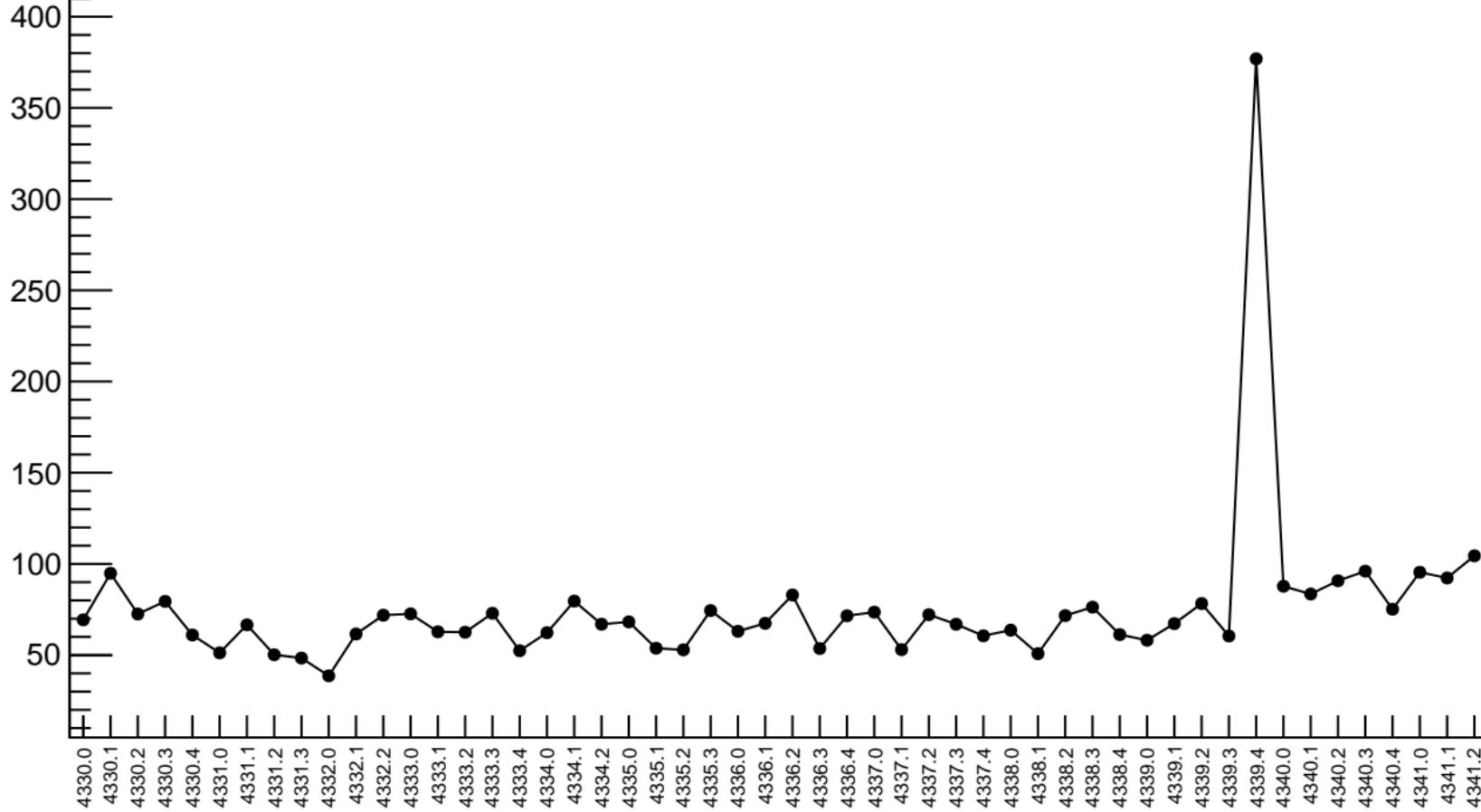


1D pull distribution

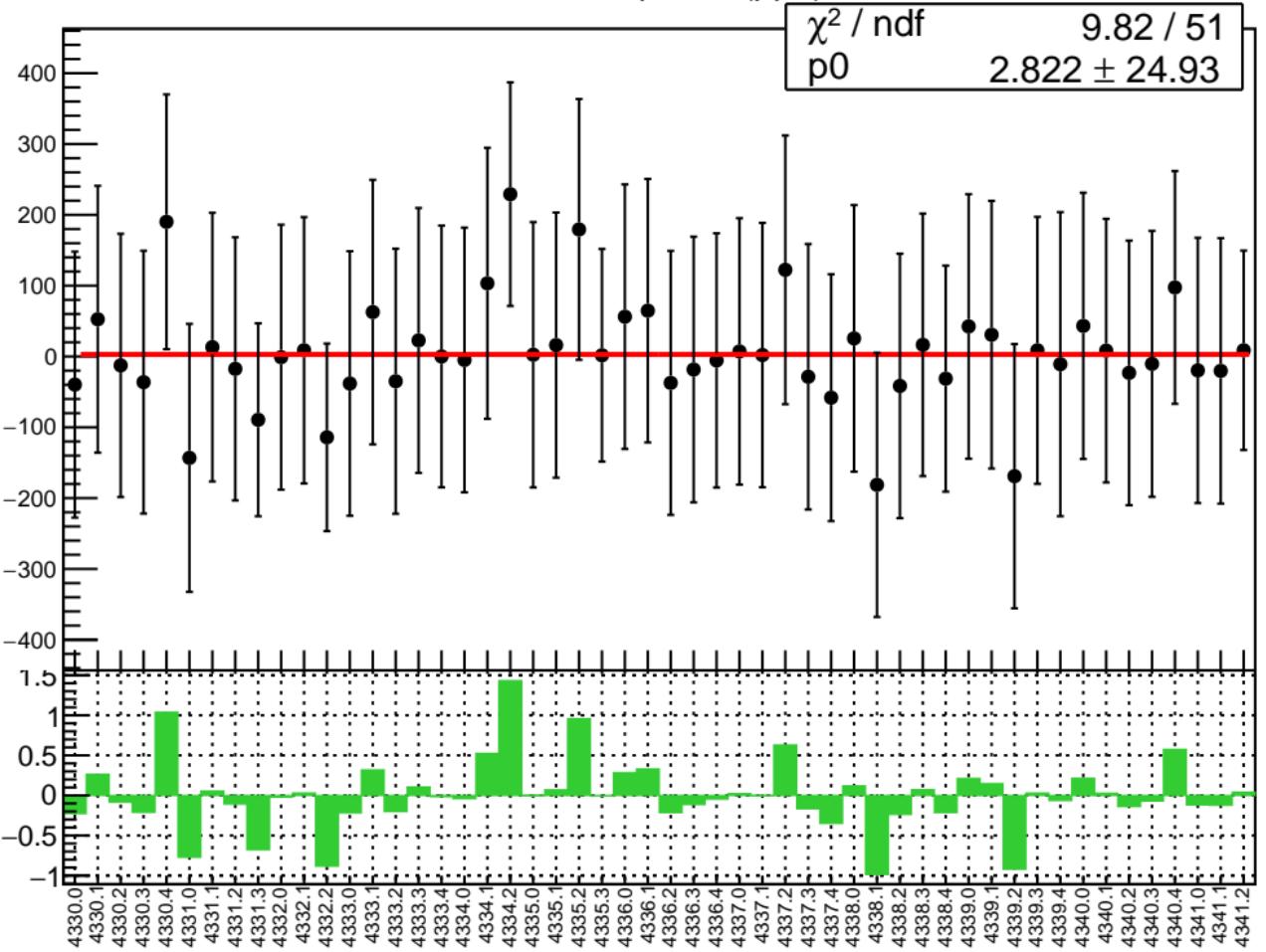


# corr\_Adet\_bpm1X RMS (ppm)

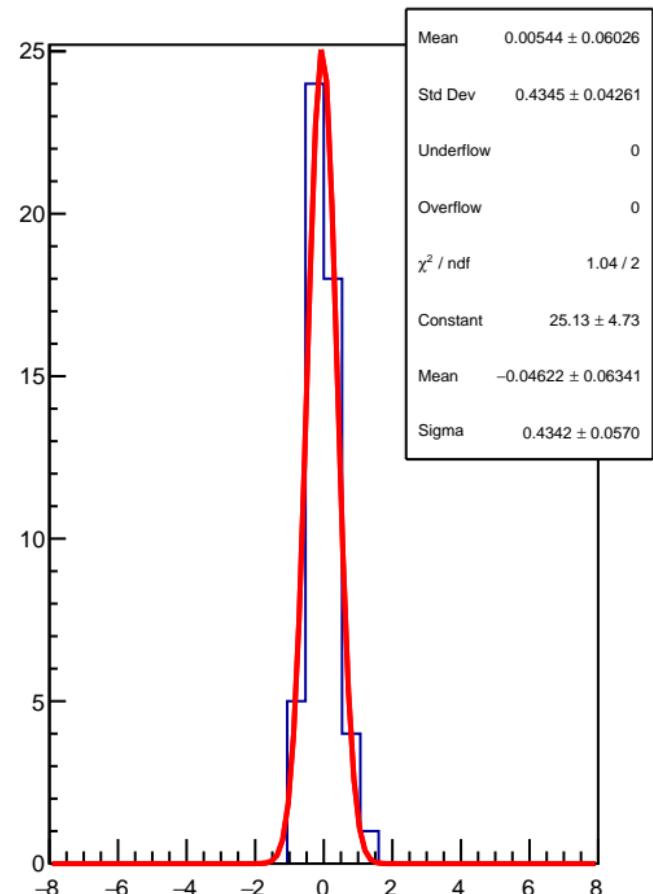
RMS (ppm)



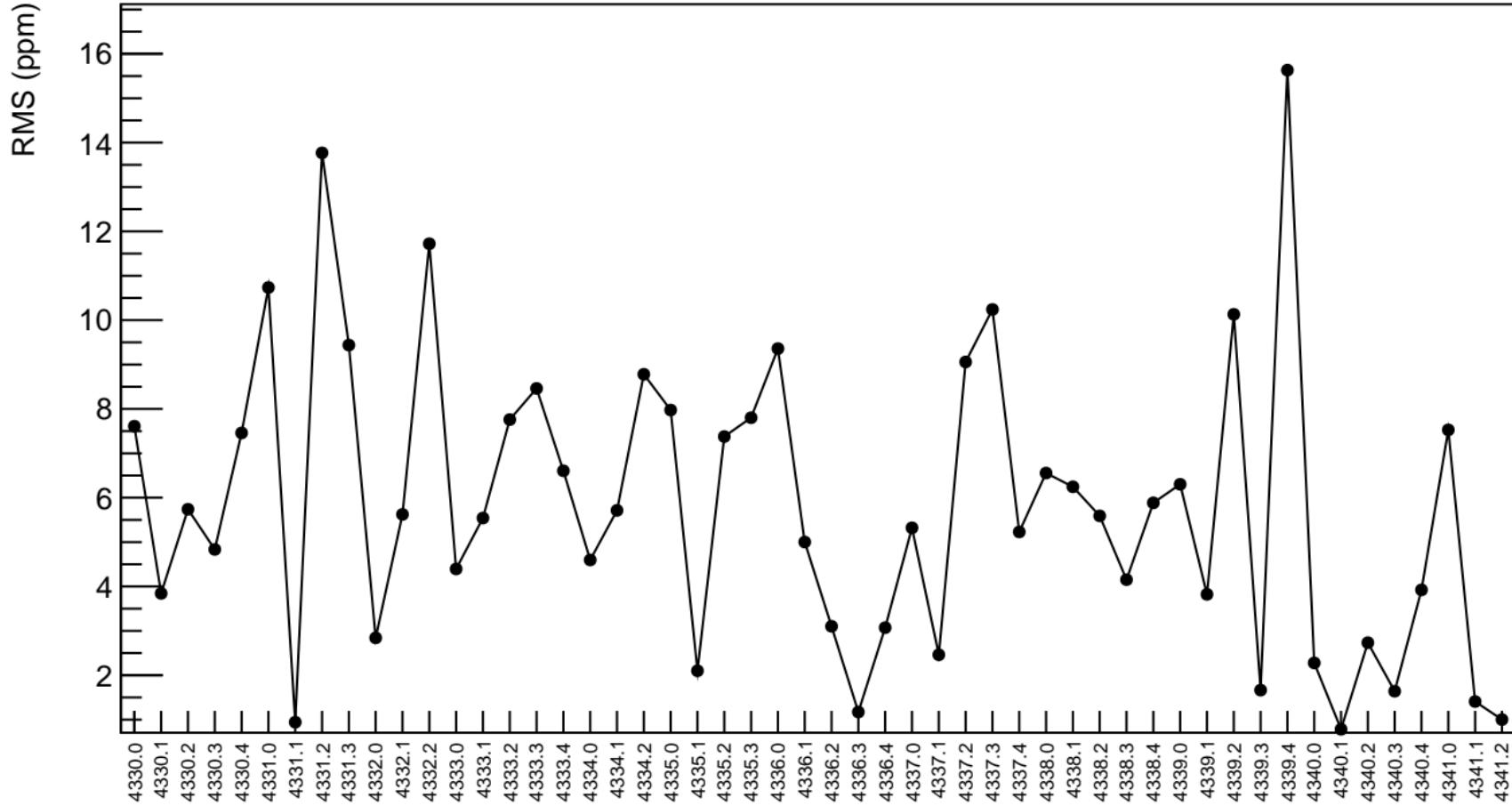
corr\_Adet\_bpm1Y (ppb)



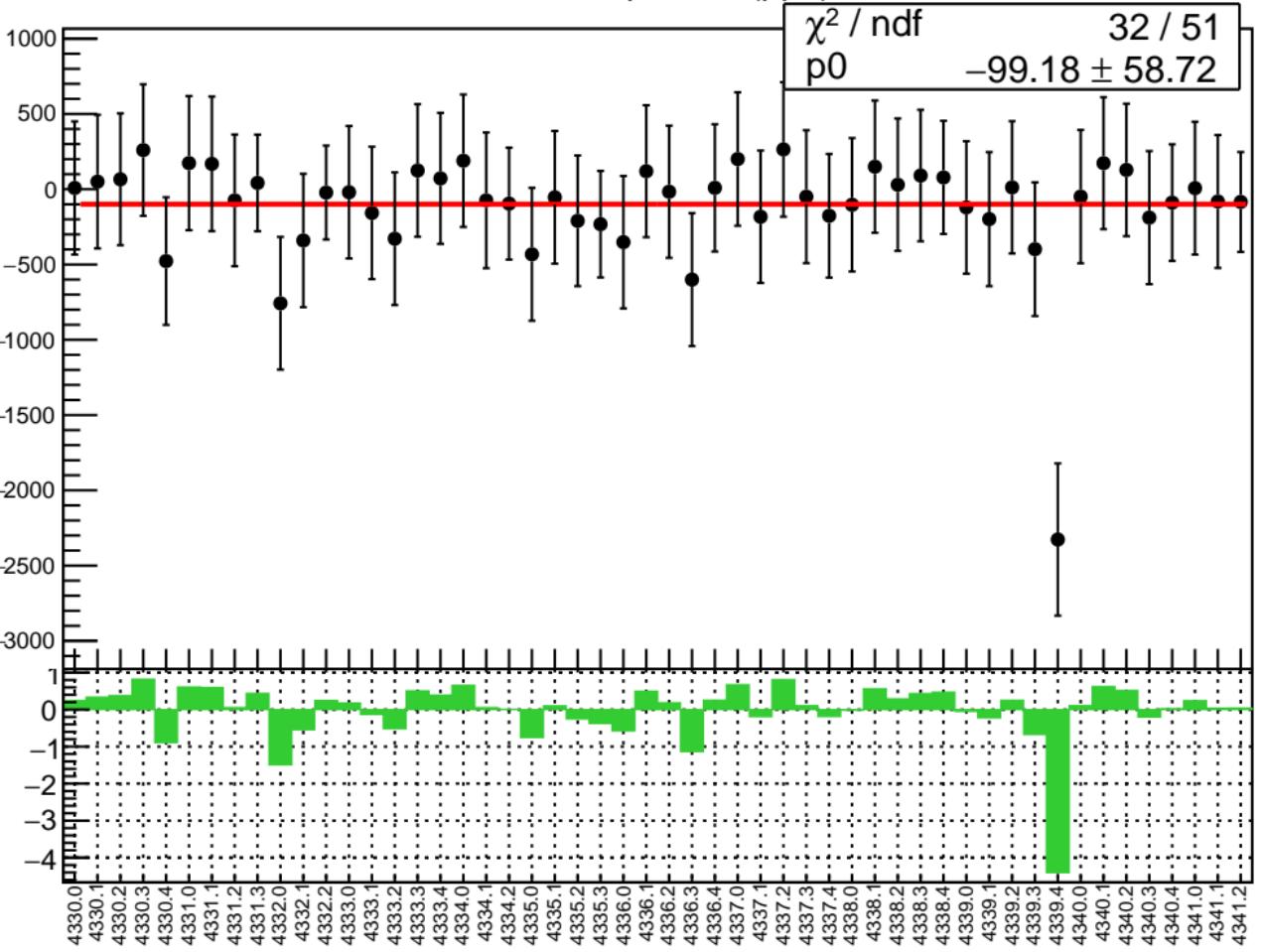
1D pull distribution



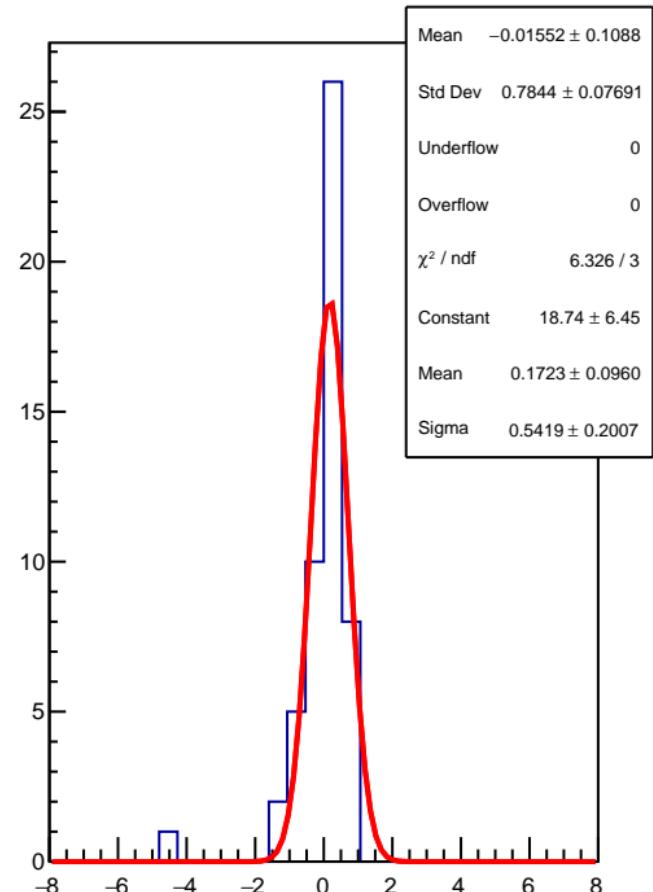
# corr\_Adet\_bpm1Y RMS (ppm)



corr\_Adet\_bpm16X (ppb)

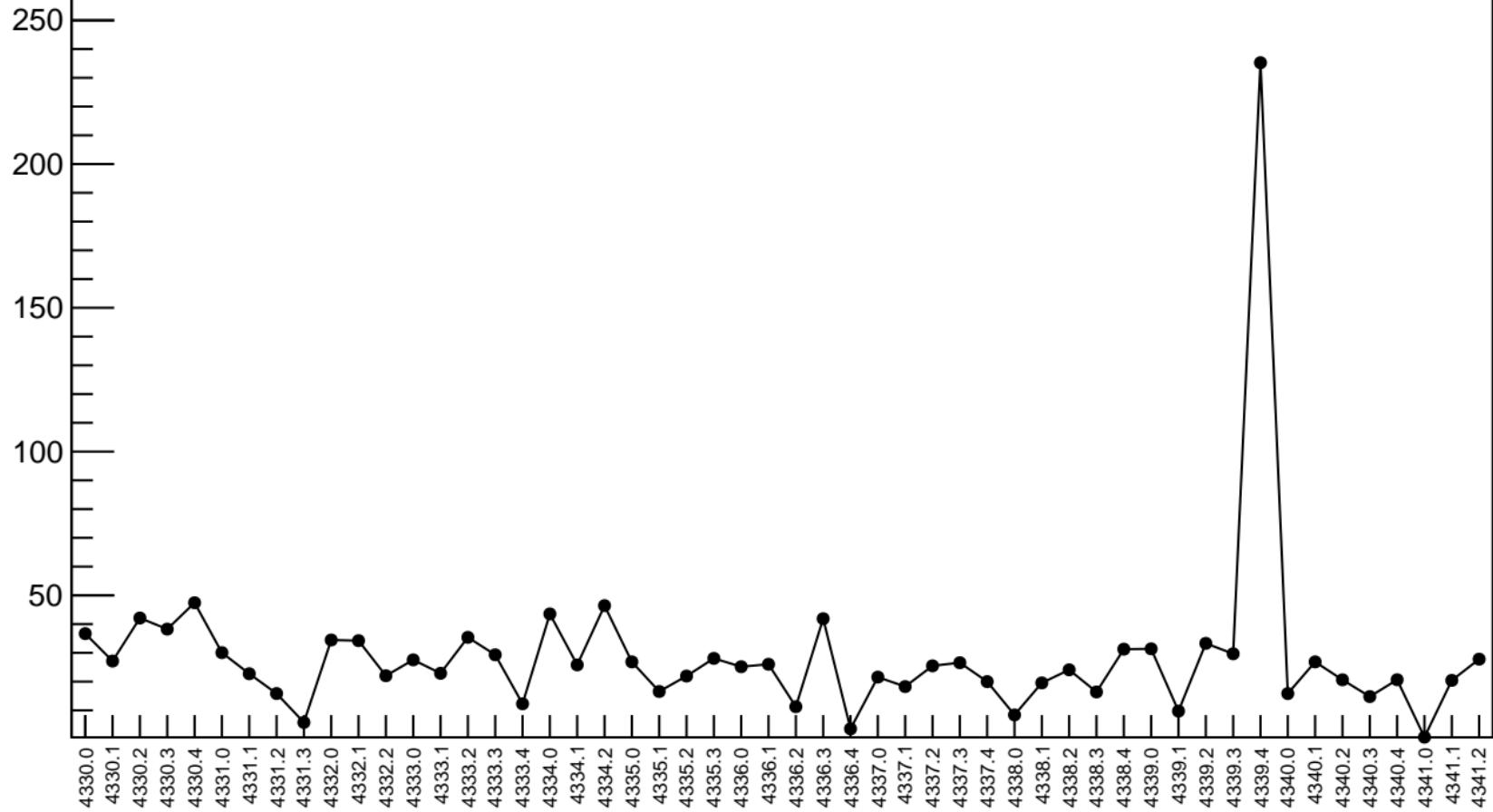


1D pull distribution



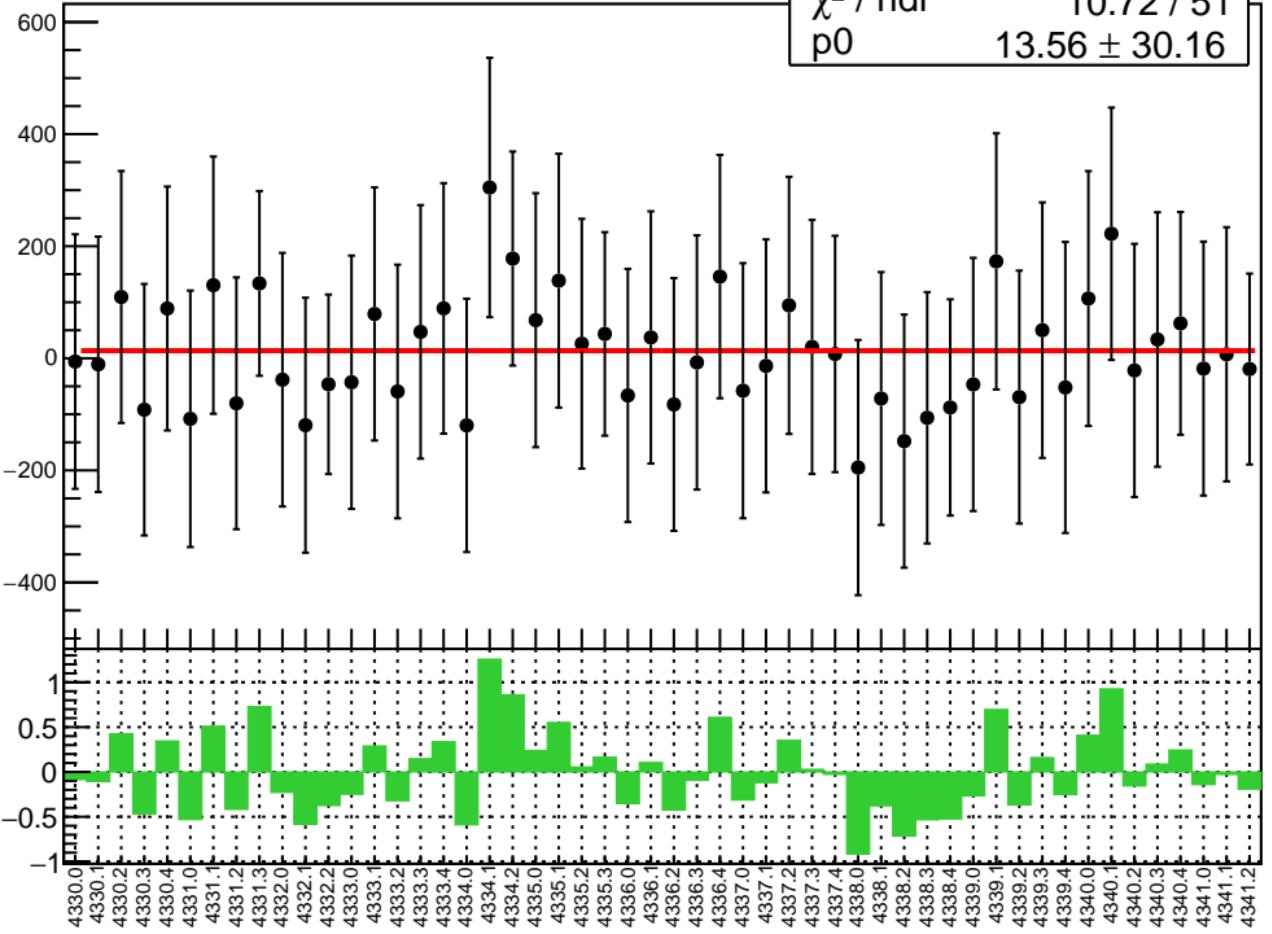
# corr\_Adet\_bpm16X RMS (ppm)

RMS (ppm)

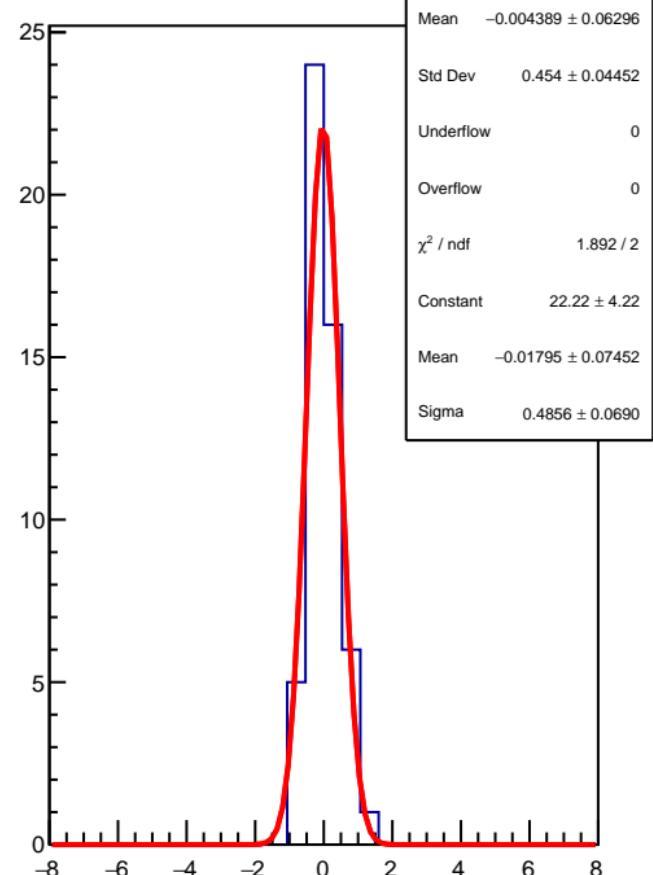


corr\_Adet\_bpm16Y (ppb)

$\chi^2 / \text{ndf}$  10.72 / 51  
 $p_0$   $13.56 \pm 30.16$

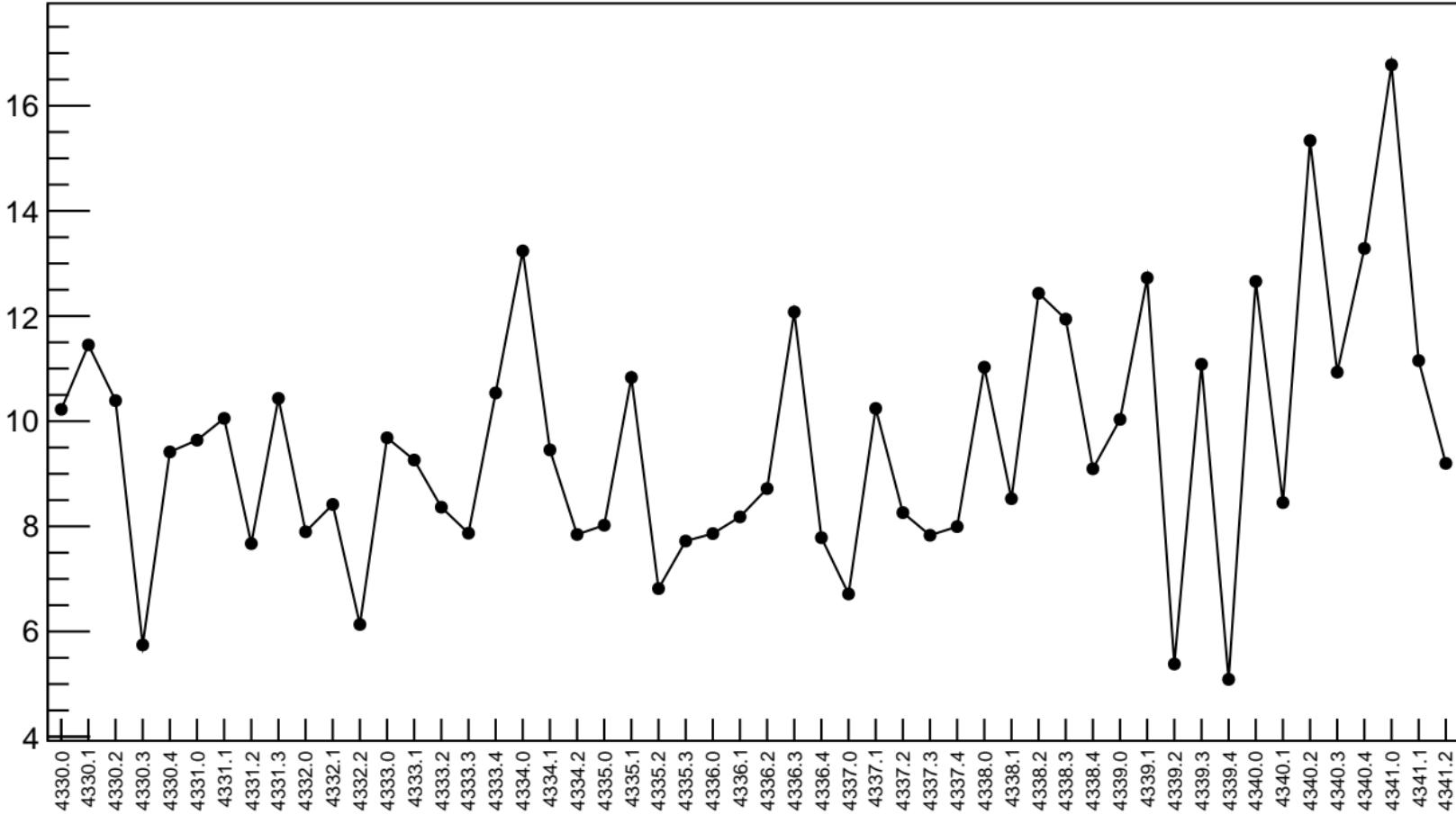


1D pull distribution

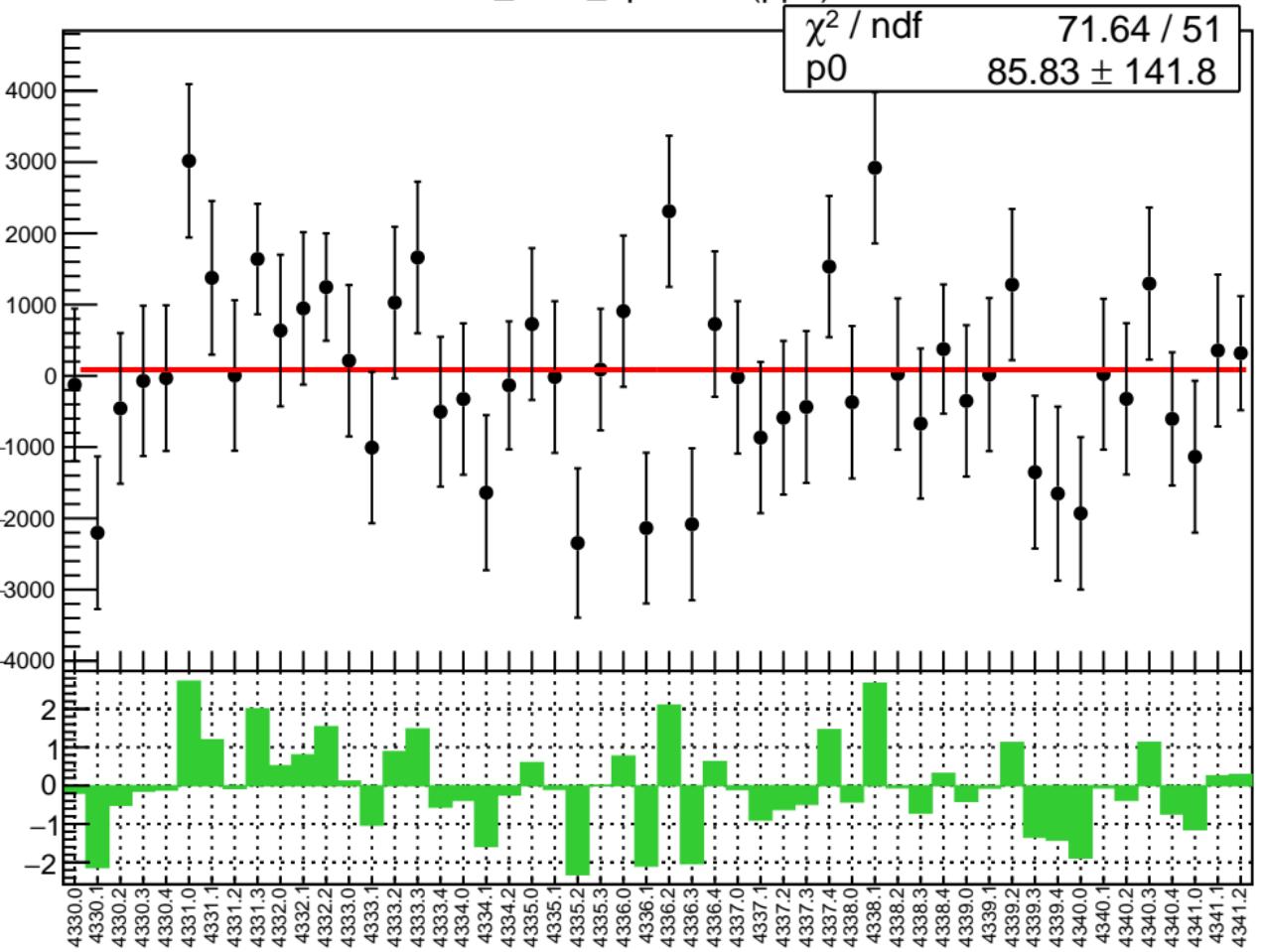


# corr\_Adet\_bpm16Y RMS (ppm)

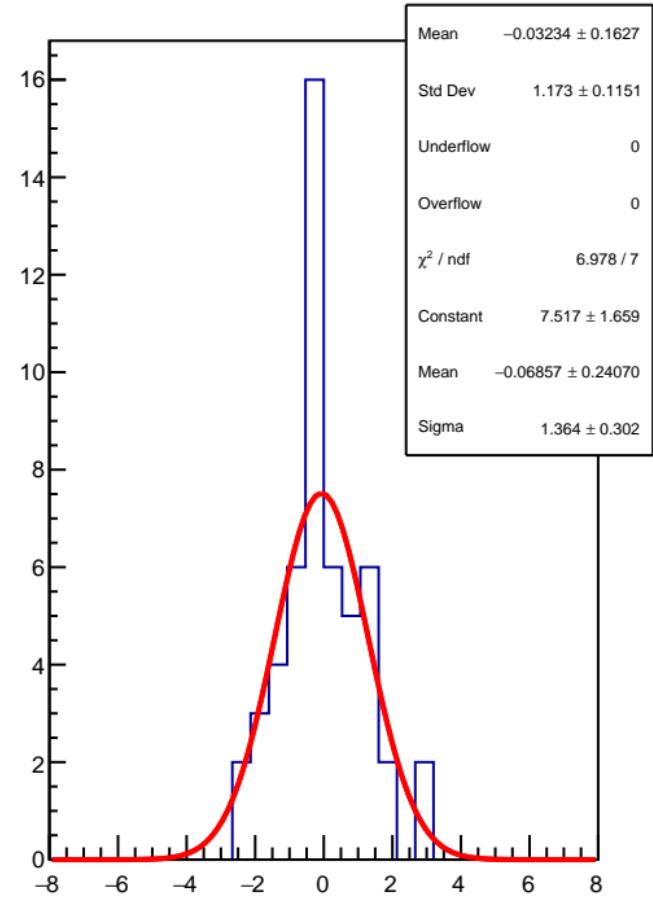
RMS (ppm)



corr\_Adet\_bpm12X (ppb)

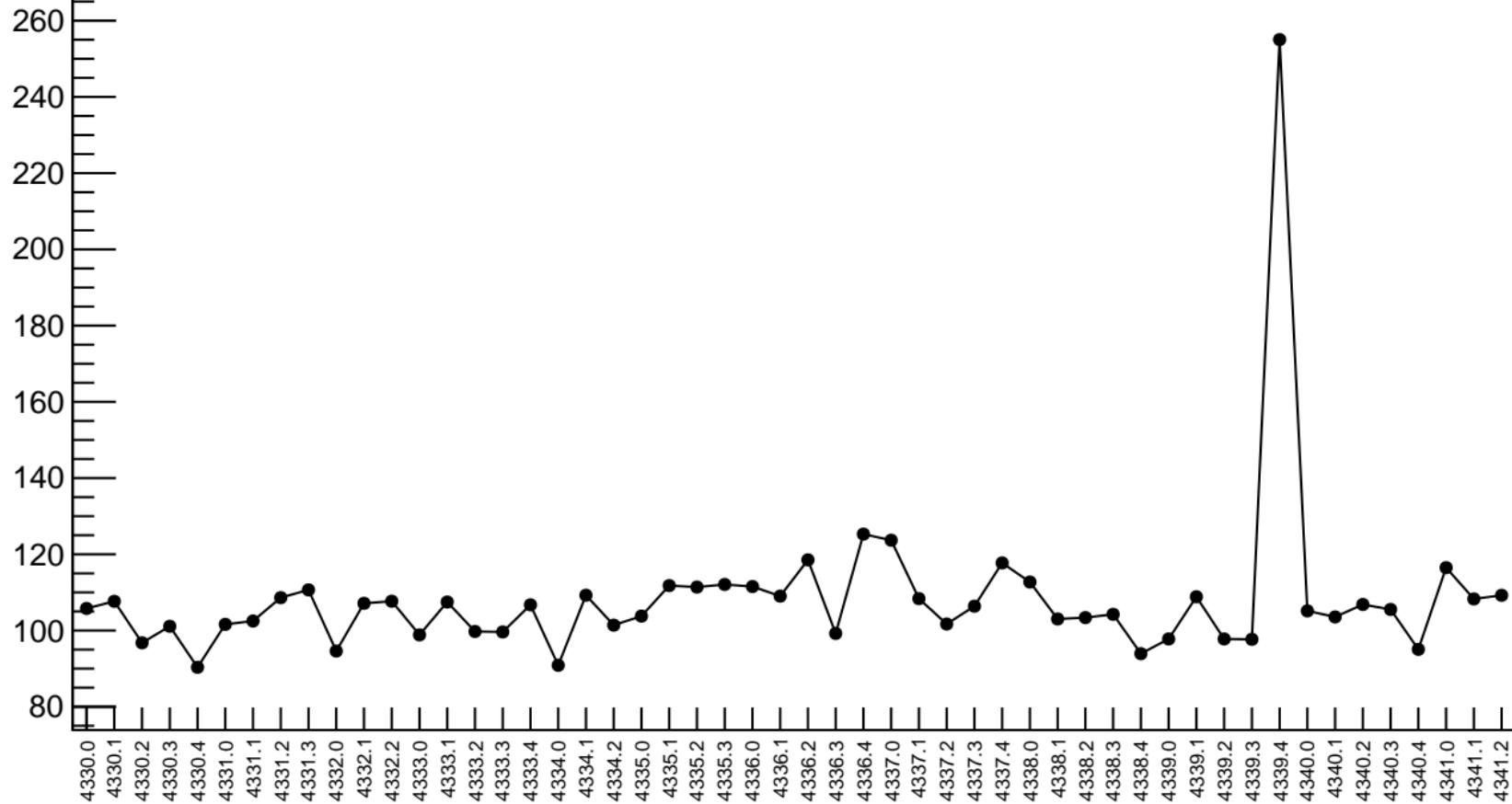


1D pull distribution

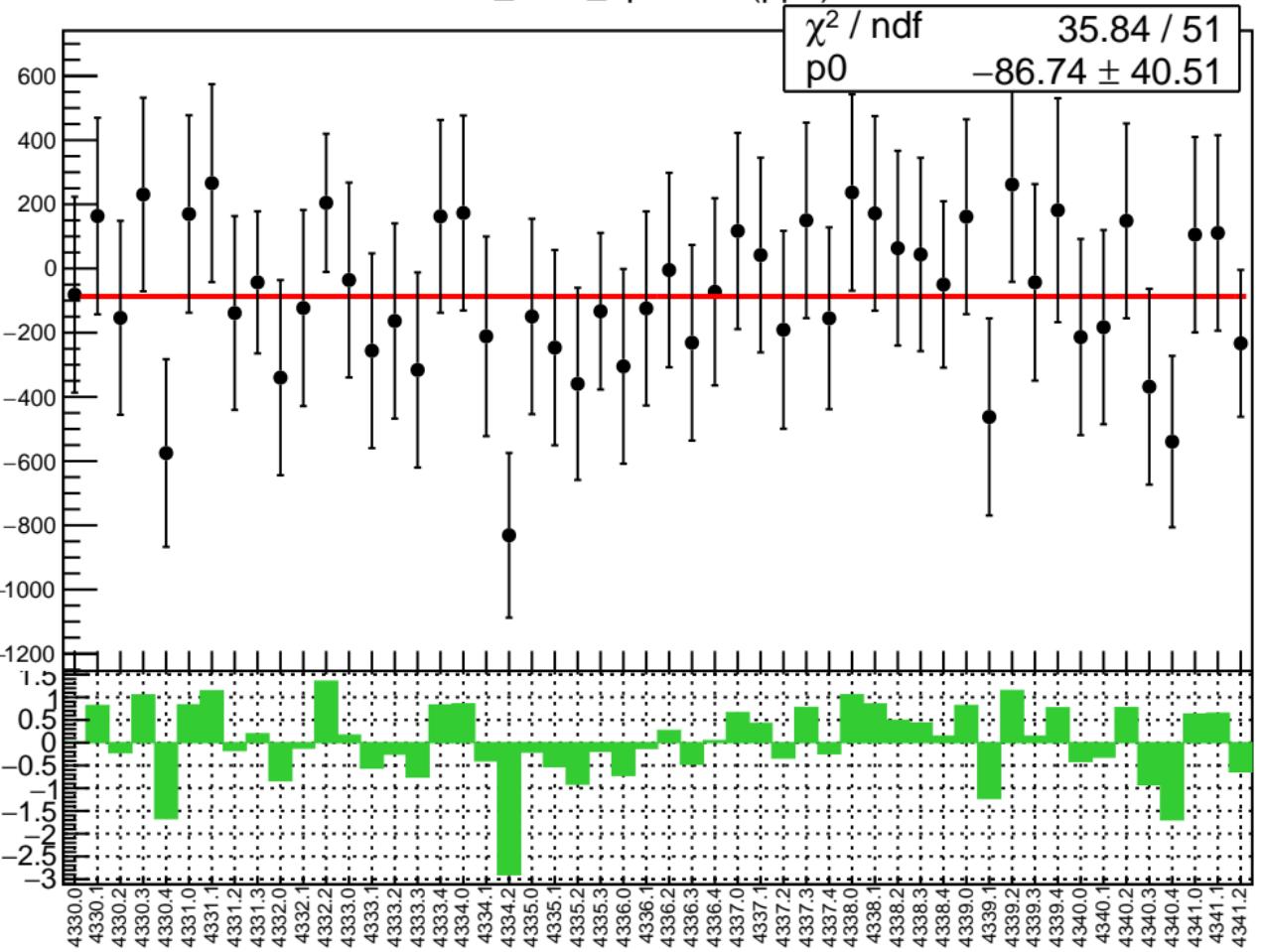


# corr\_Adet\_bpm12X RMS (ppm)

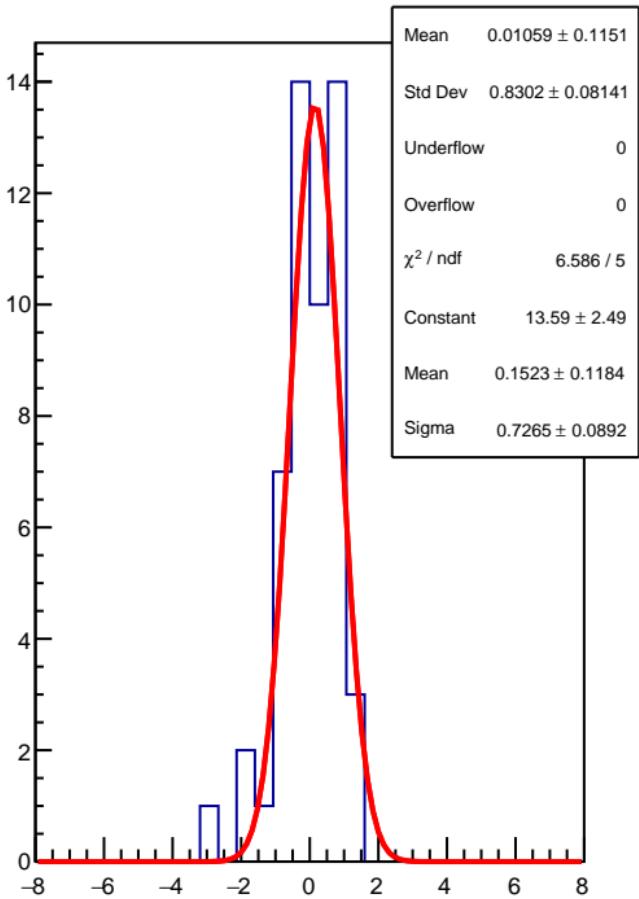
RMS (ppm)



corr\_Adet\_bpm12Y (ppb)

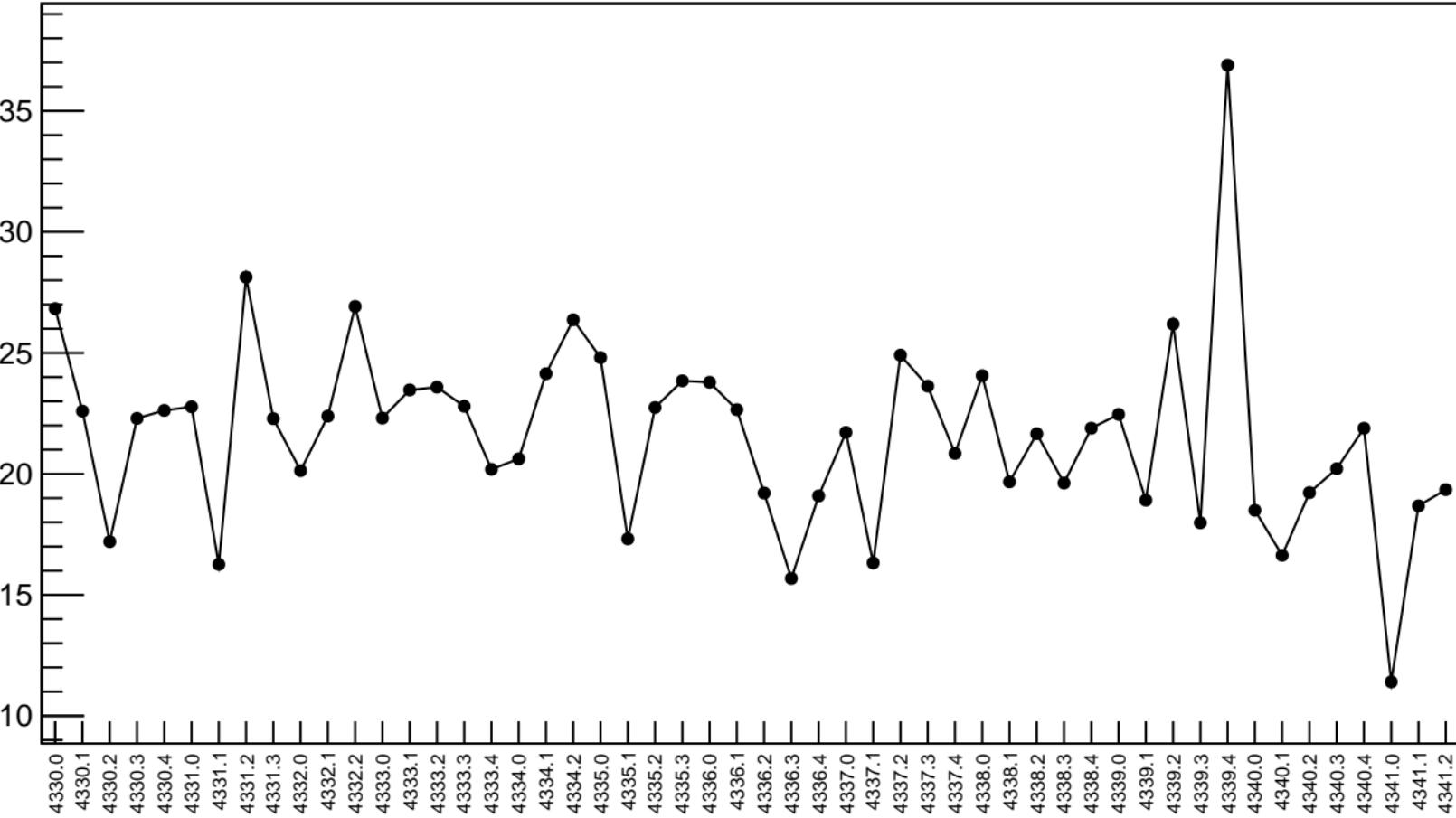


1D pull distribution

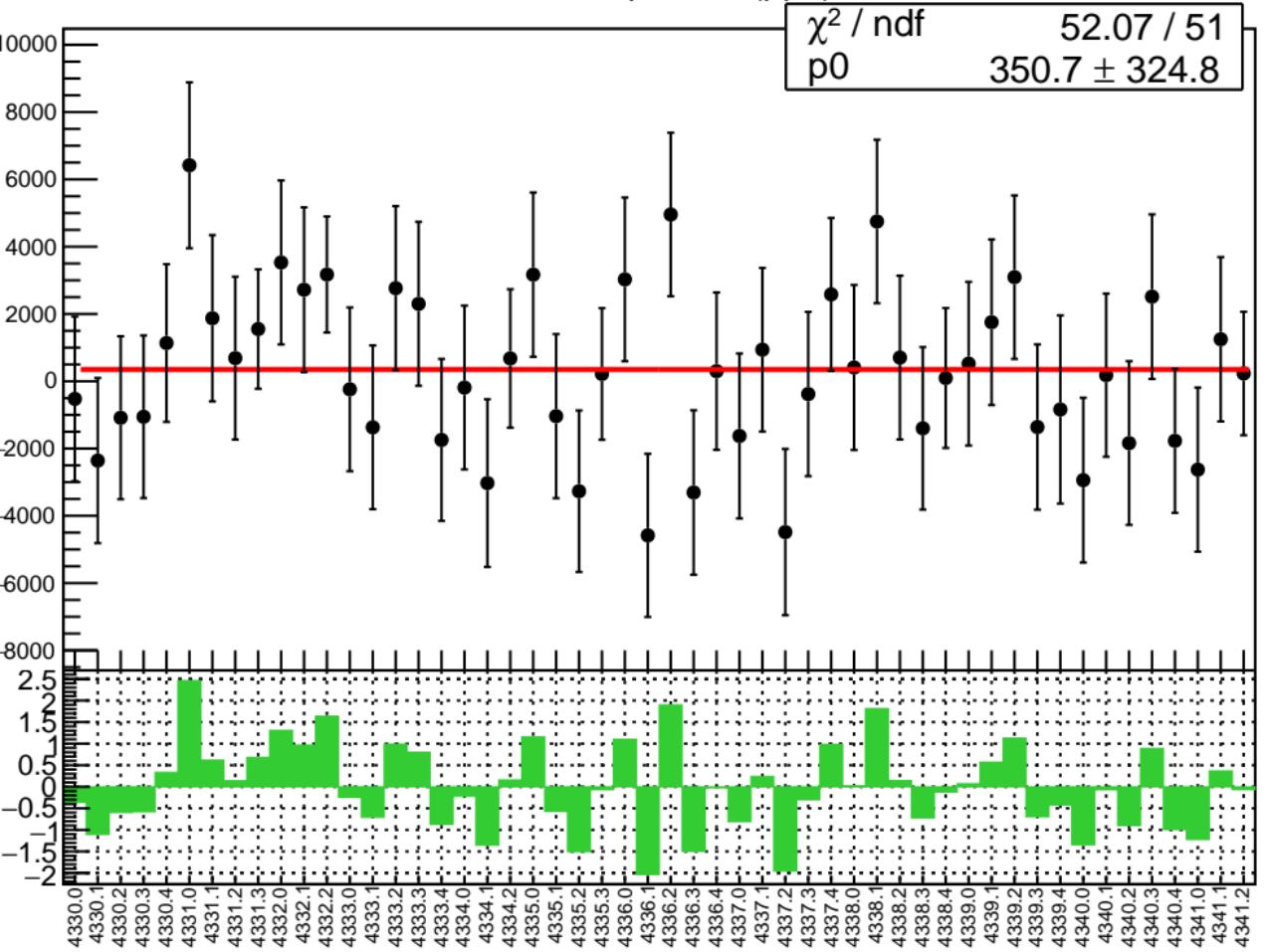


# corr\_Adet\_bpm12Y RMS (ppm)

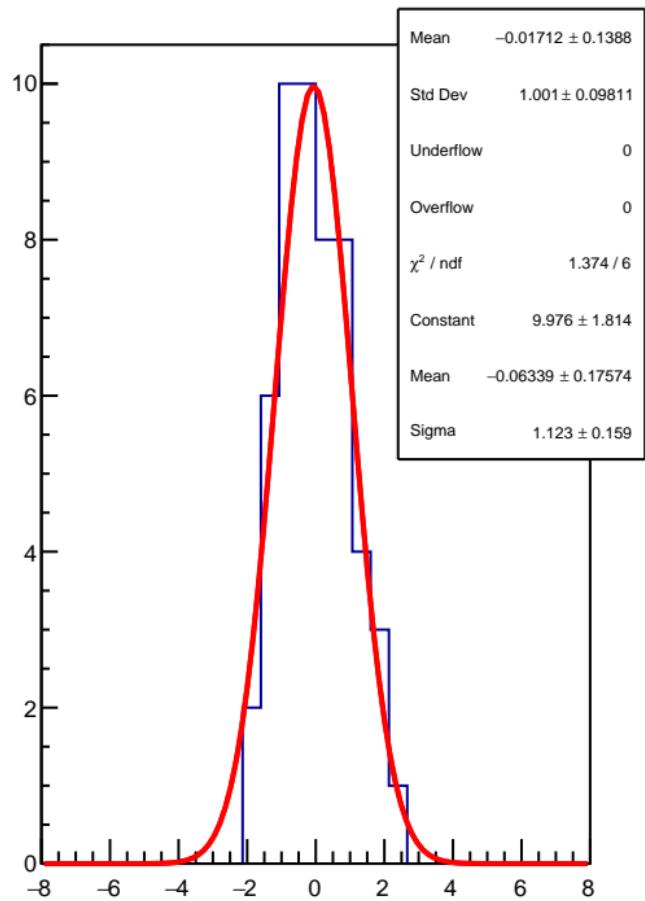
RMS (ppm)



corr\_Adet\_bpm11X (ppb)



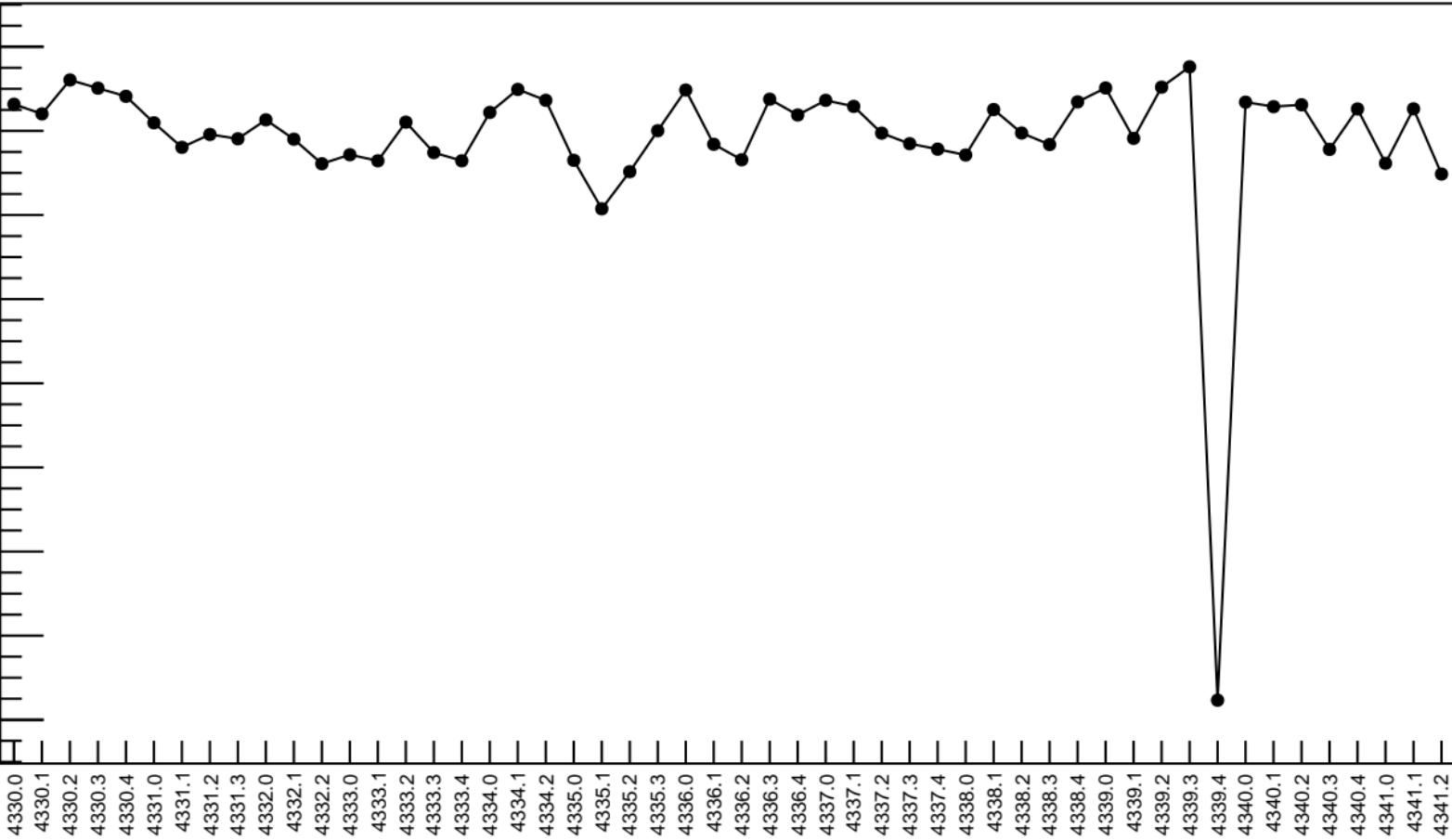
1D pull distribution



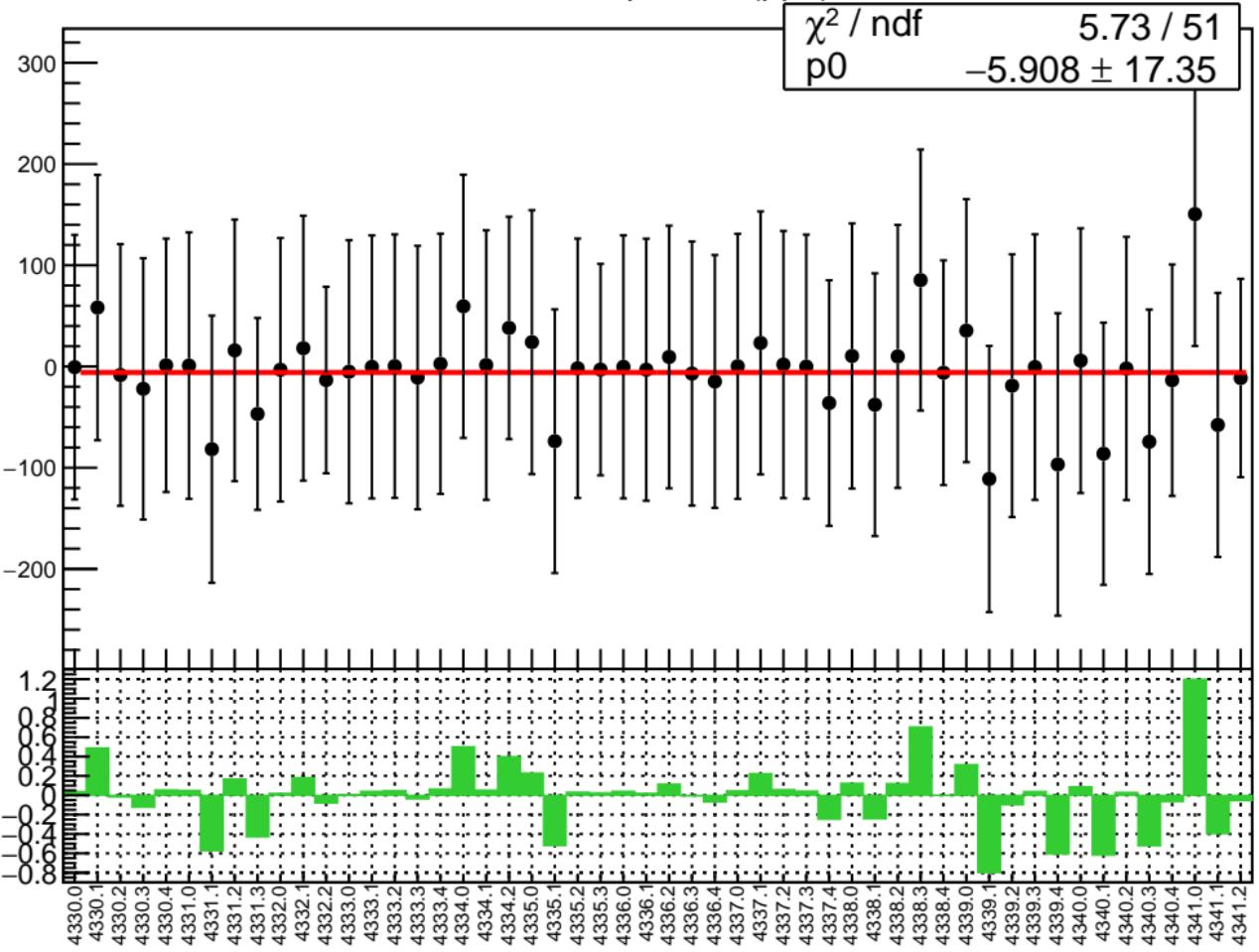
# corr\_Adet\_bpm11X RMS (ppm)

RMS (ppm)

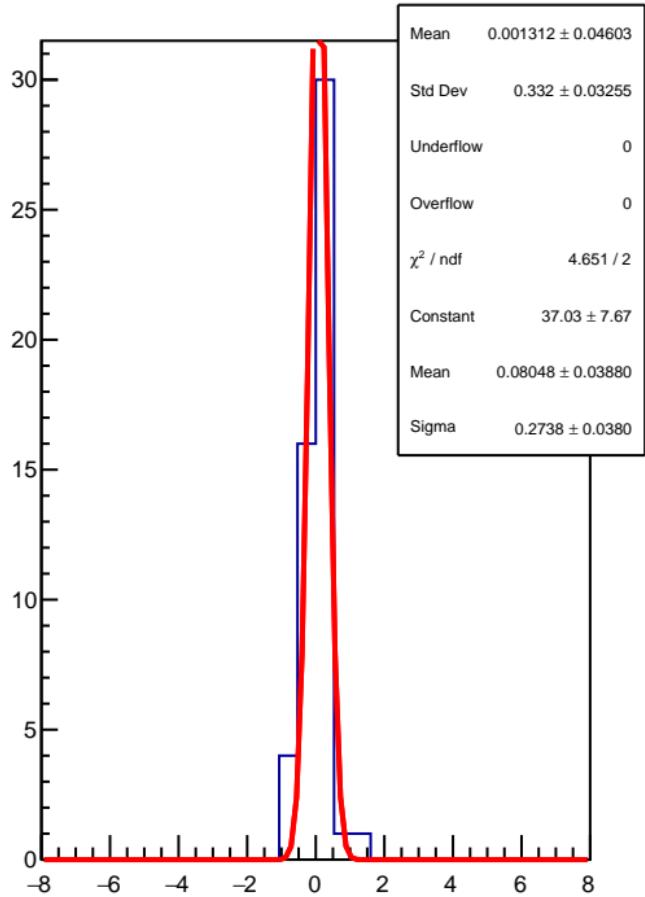
240  
220  
200  
180  
160  
140  
120  
100  
80



corr\_Adet\_bpm11Y (ppb)



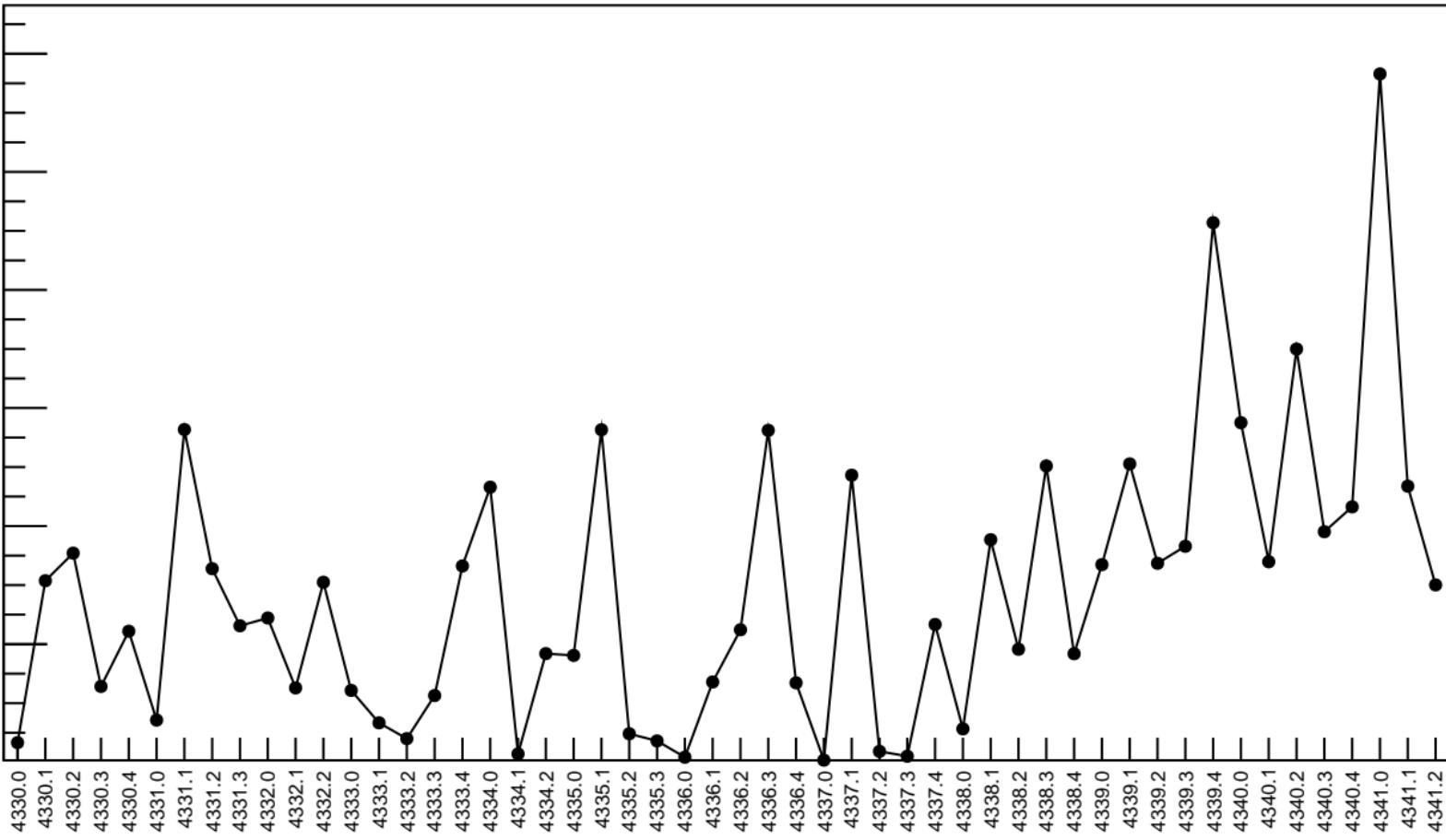
1D pull distribution



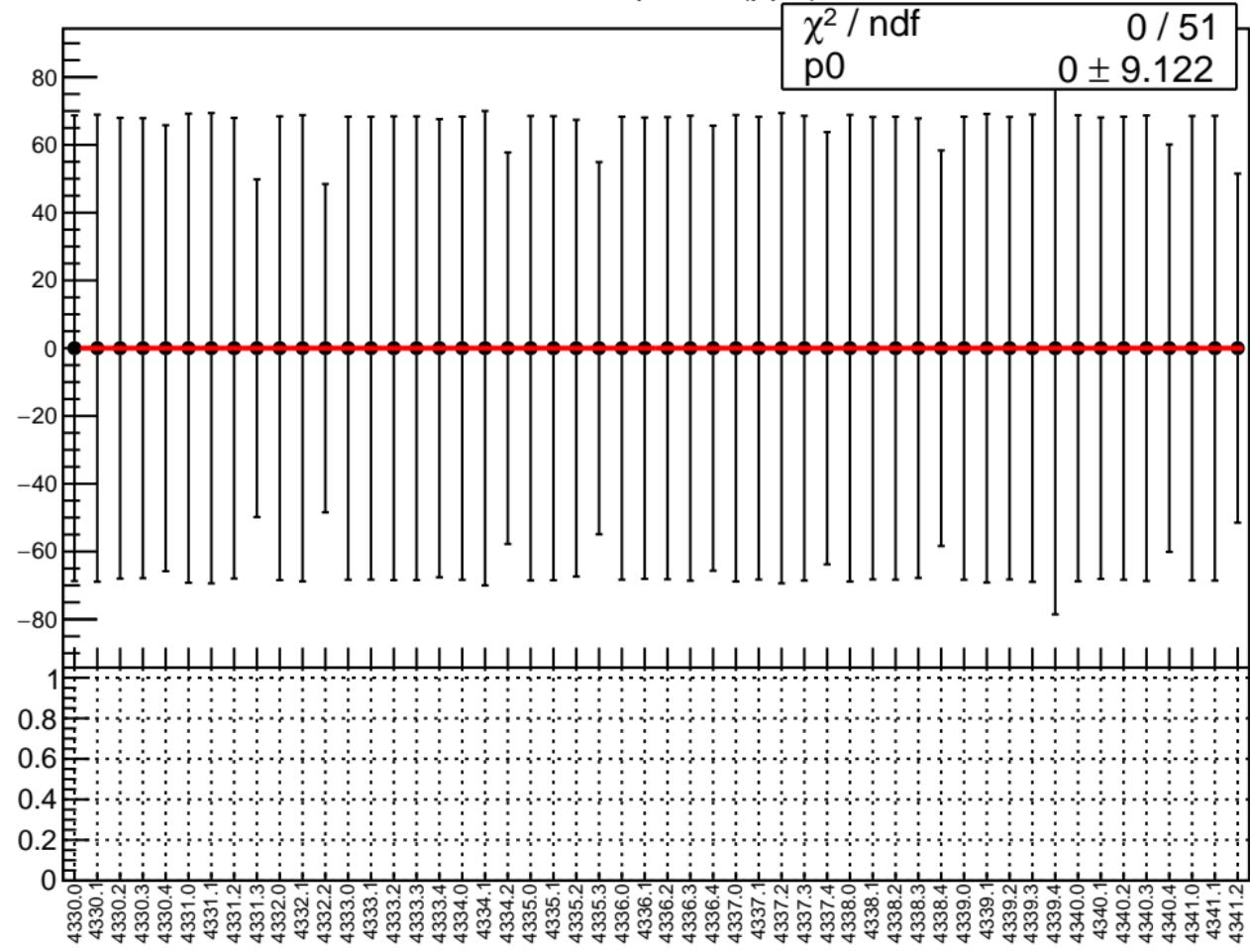
# corr\_Adet\_bpm11Y RMS (ppm)

RMS (ppm)

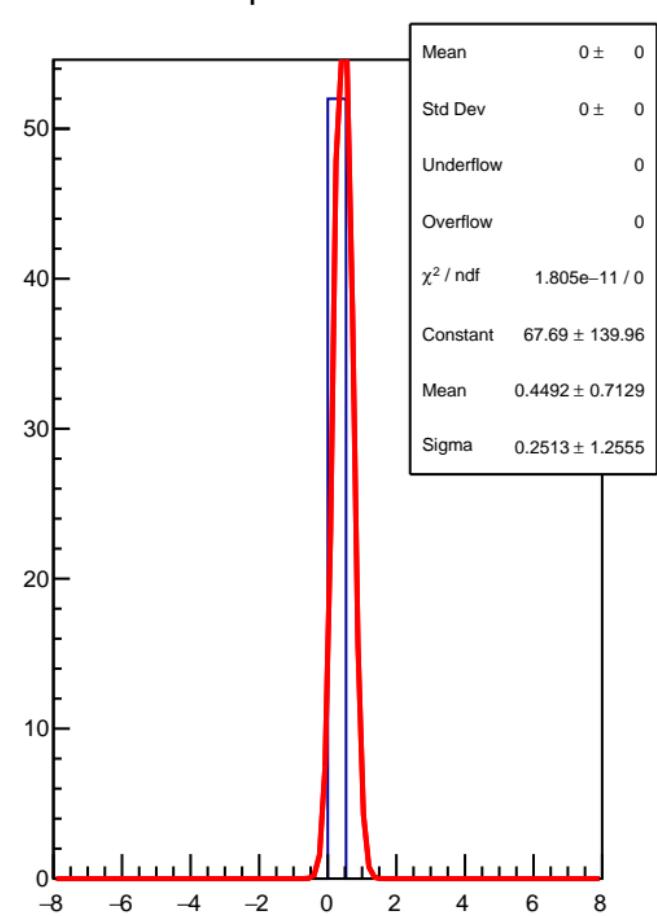
12  
10  
8  
6  
4  
2



# corr\_Adet\_bpm8X (ppb)

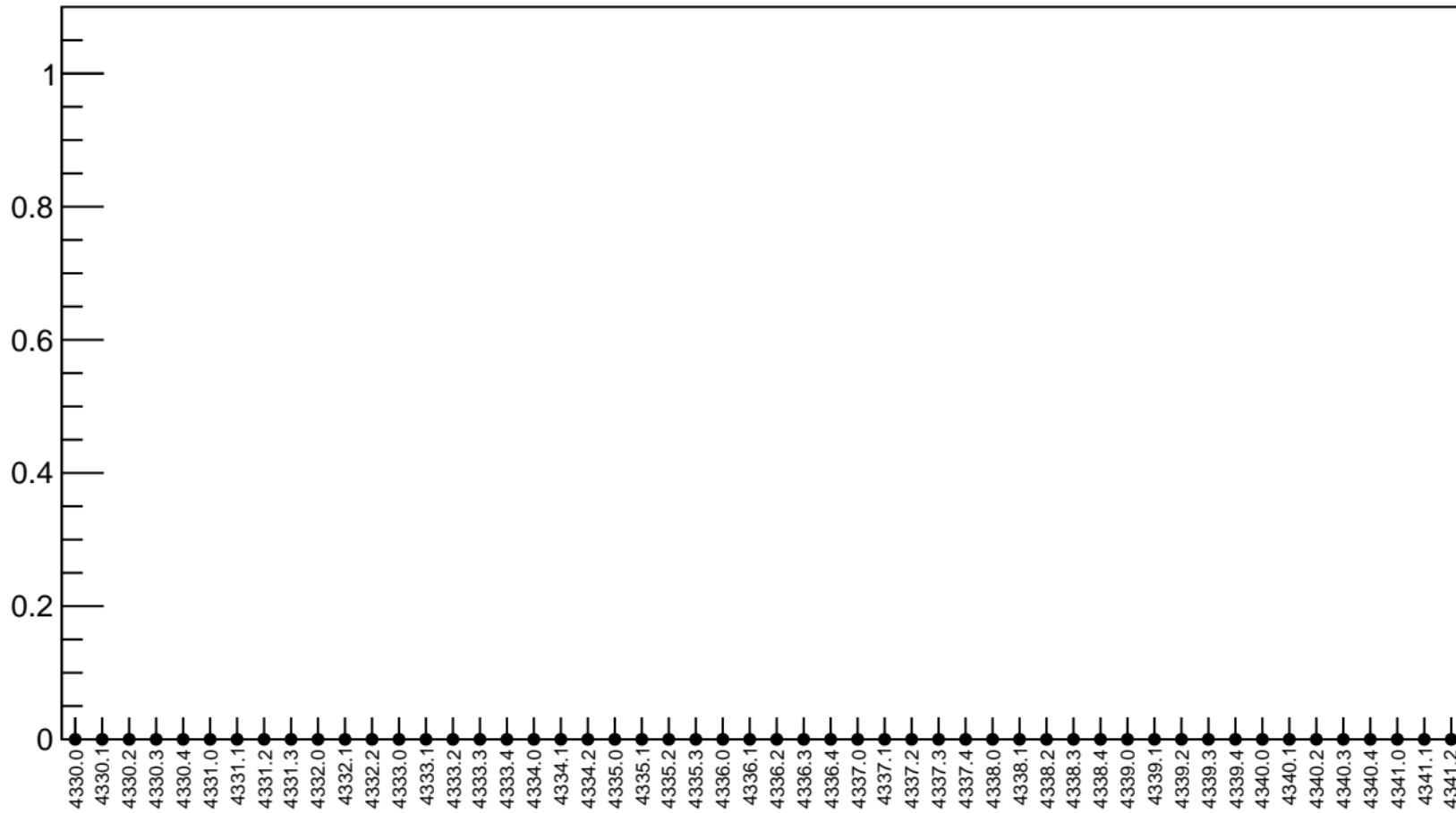


# 1D pull distribution

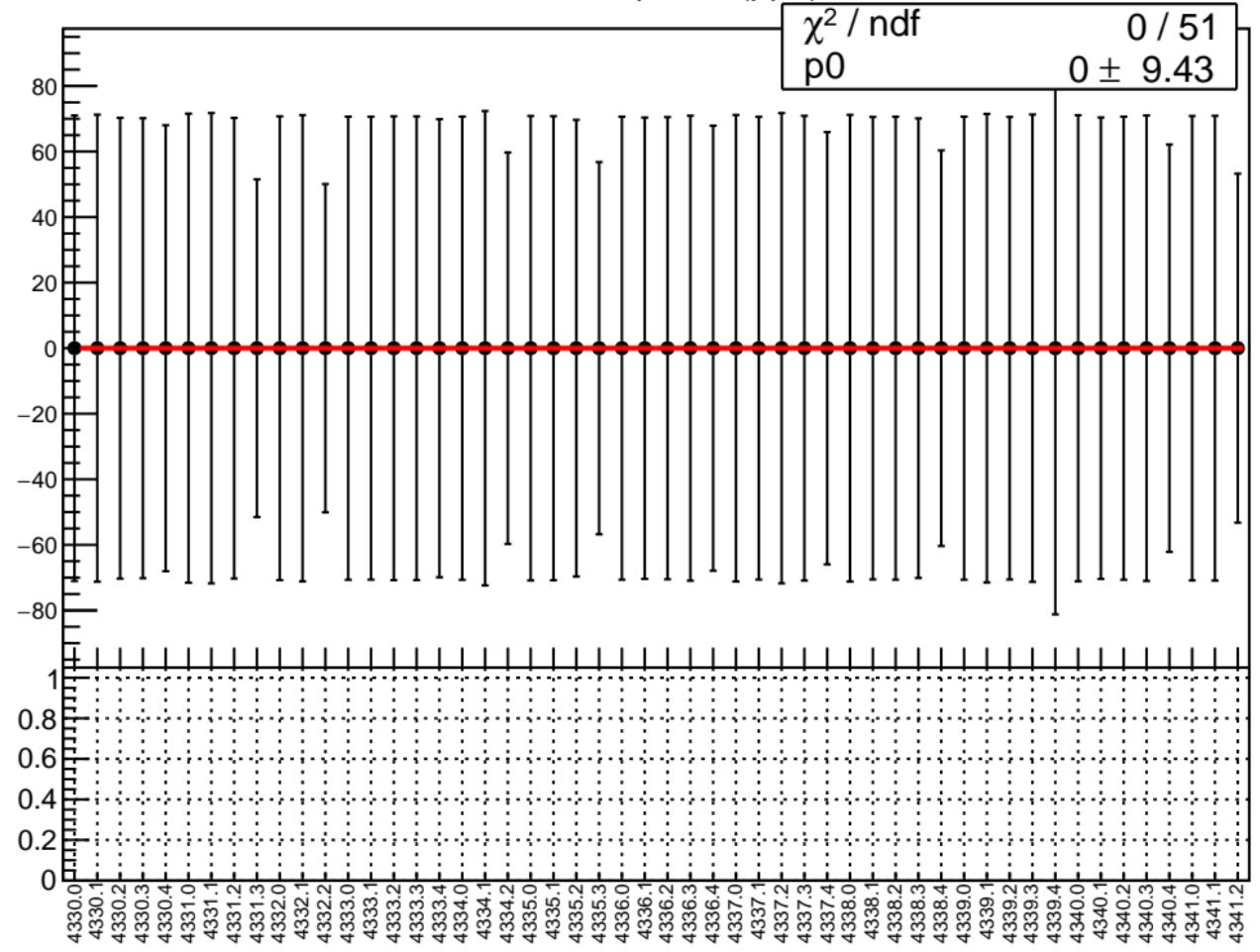


# corr\_Adet\_bpm8X RMS (ppm)

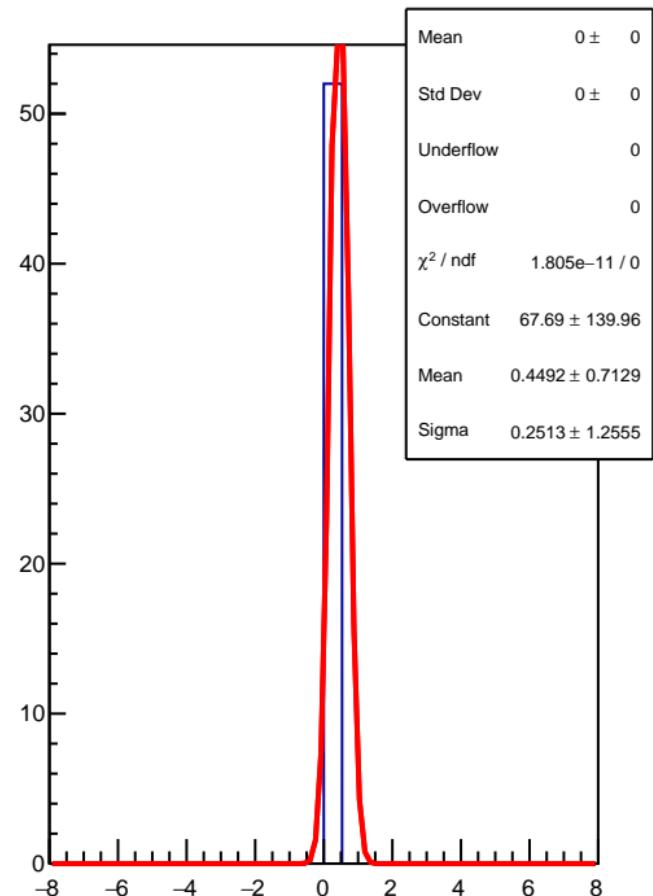
RMS (ppm)



corr\_Adet\_bpm8Y (ppb)

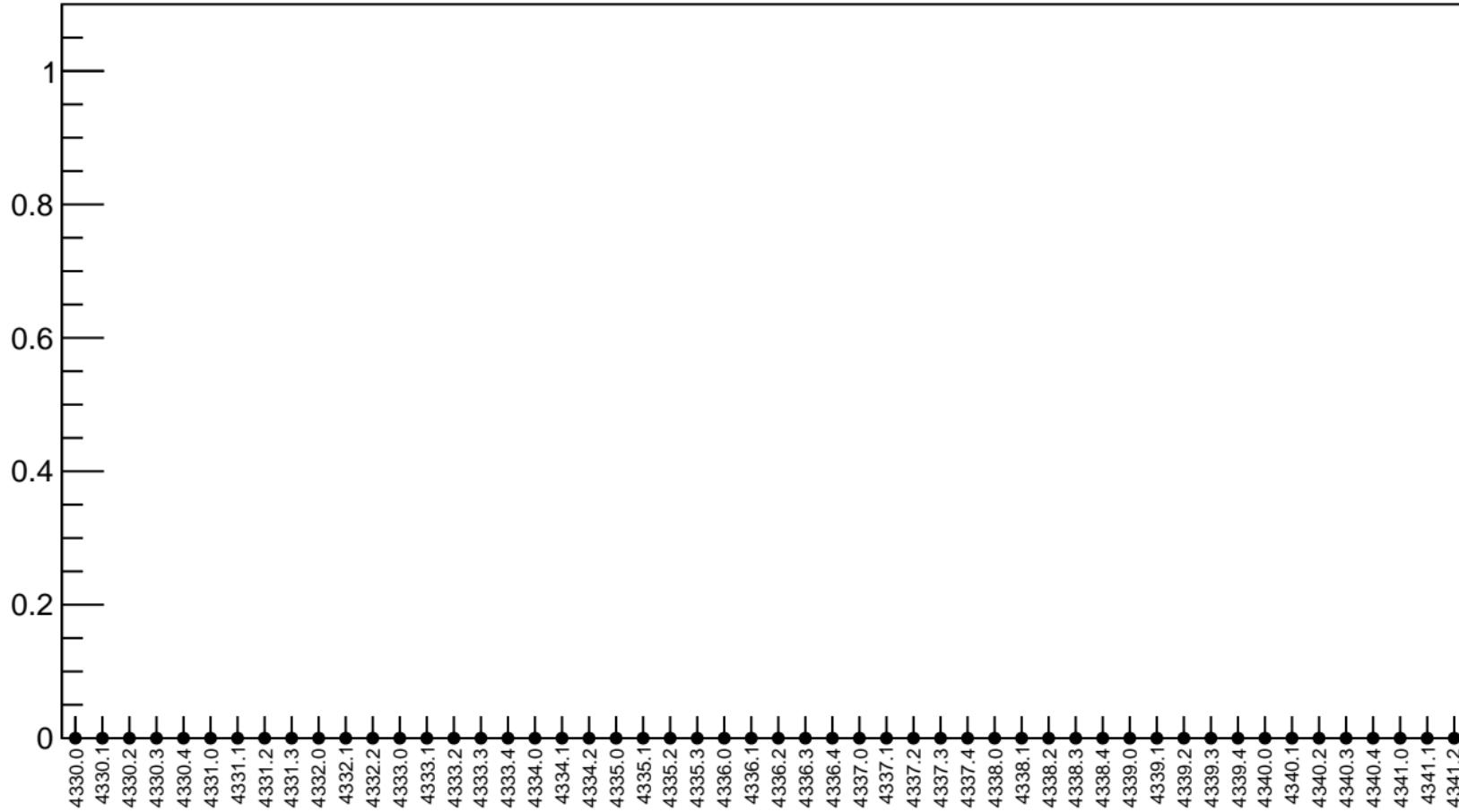


1D pull distribution

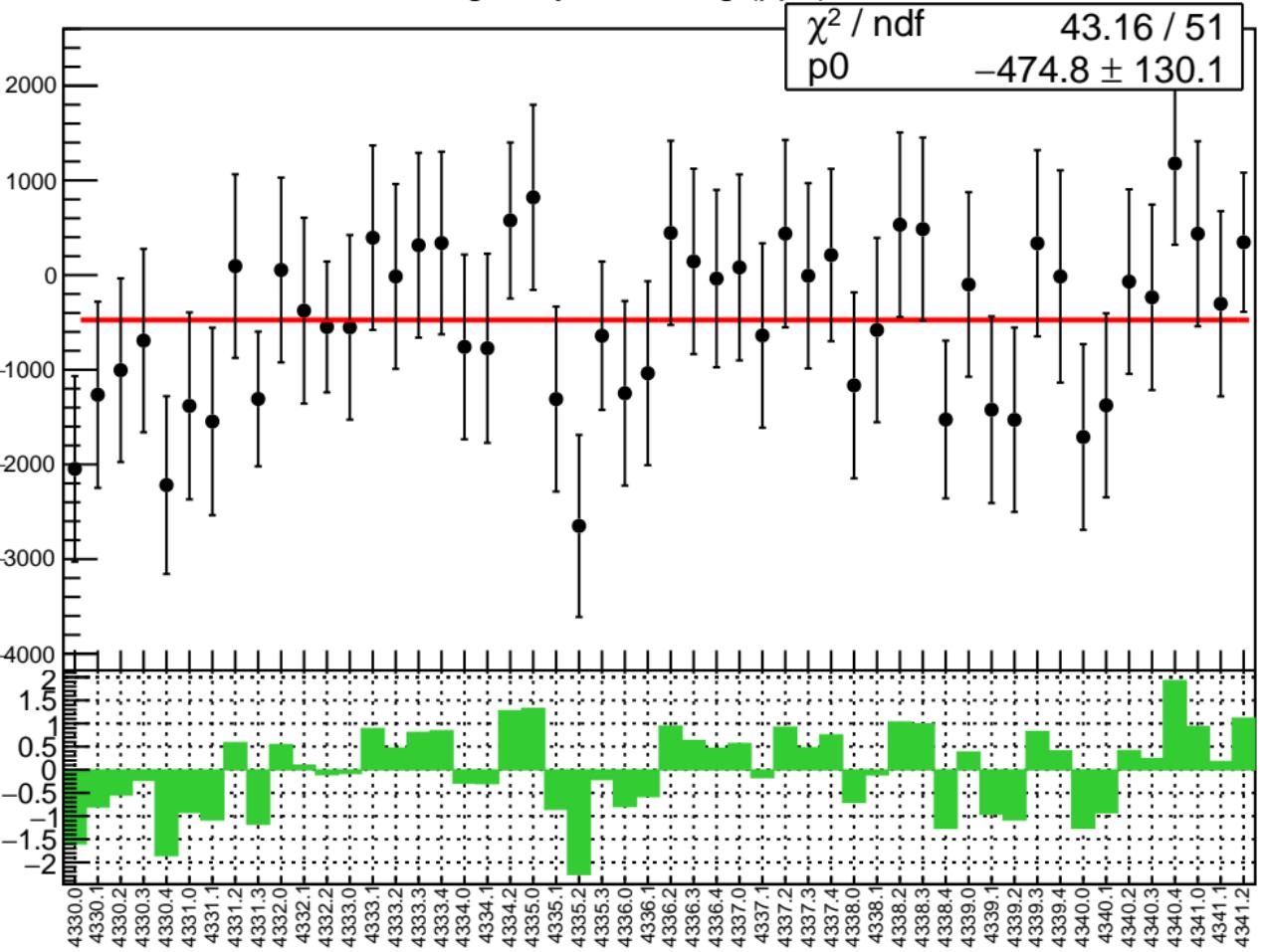


# corr\_Adet\_bpm8Y RMS (ppm)

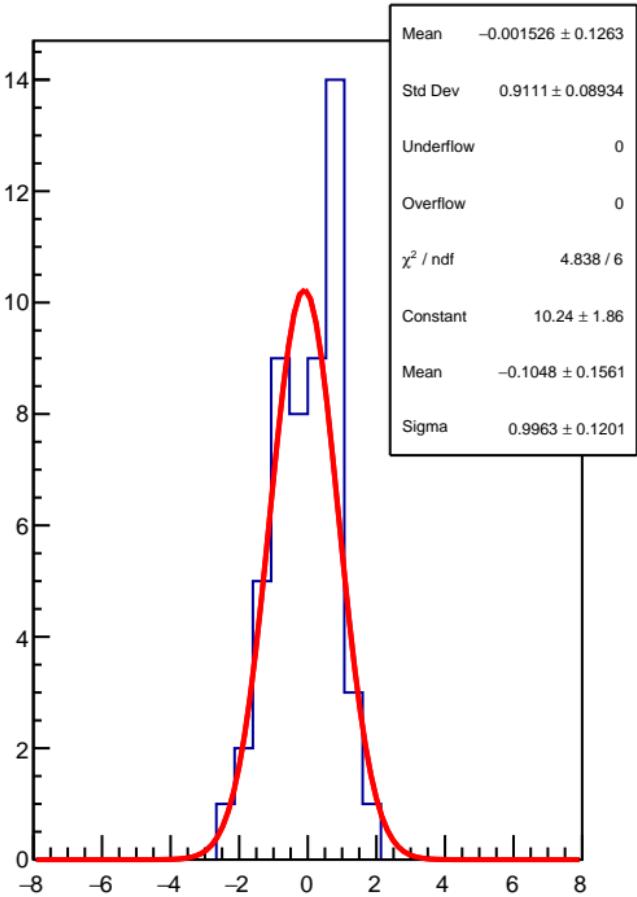
RMS (ppm)



lagr\_asym\_us\_avg (ppb)

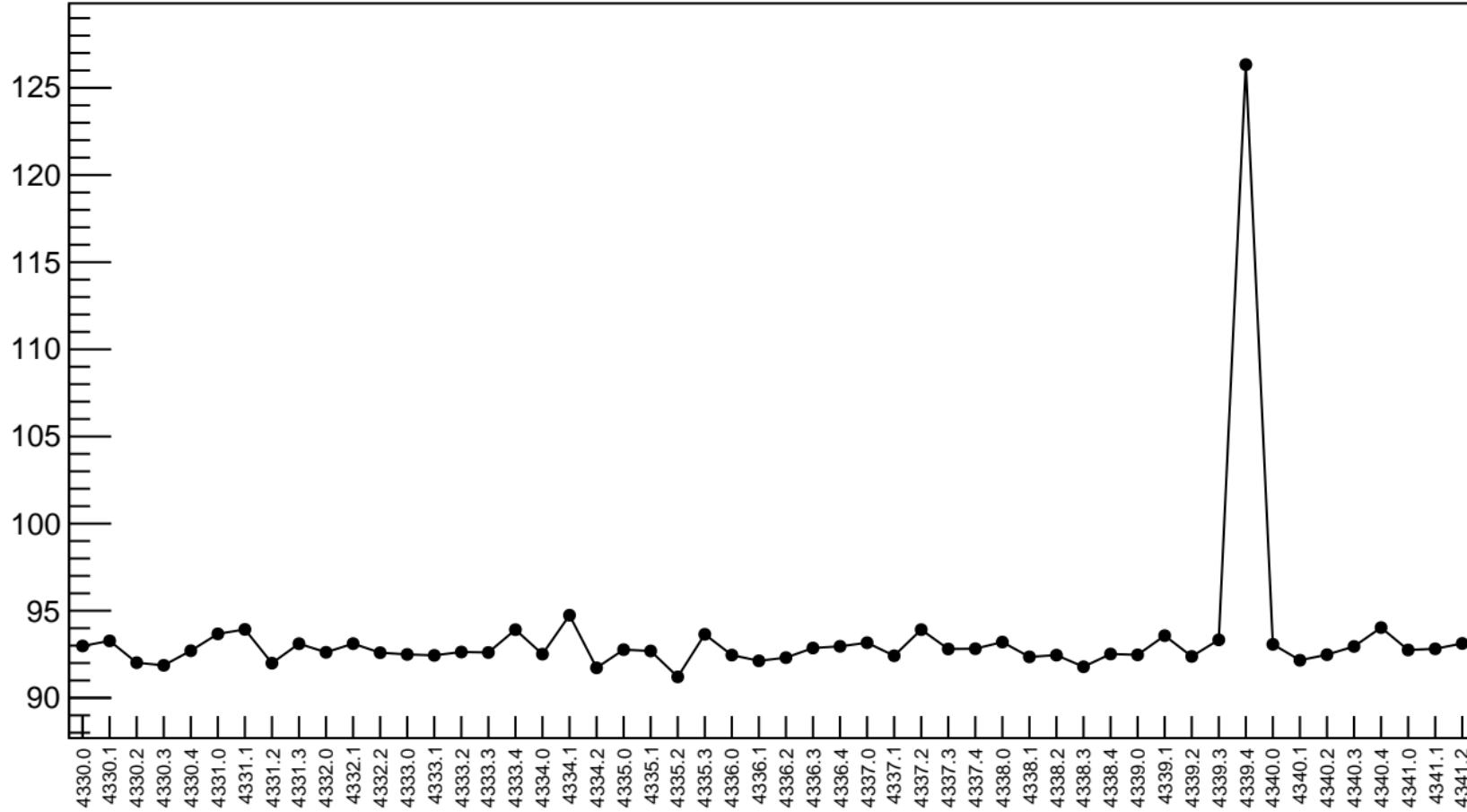


1D pull distribution

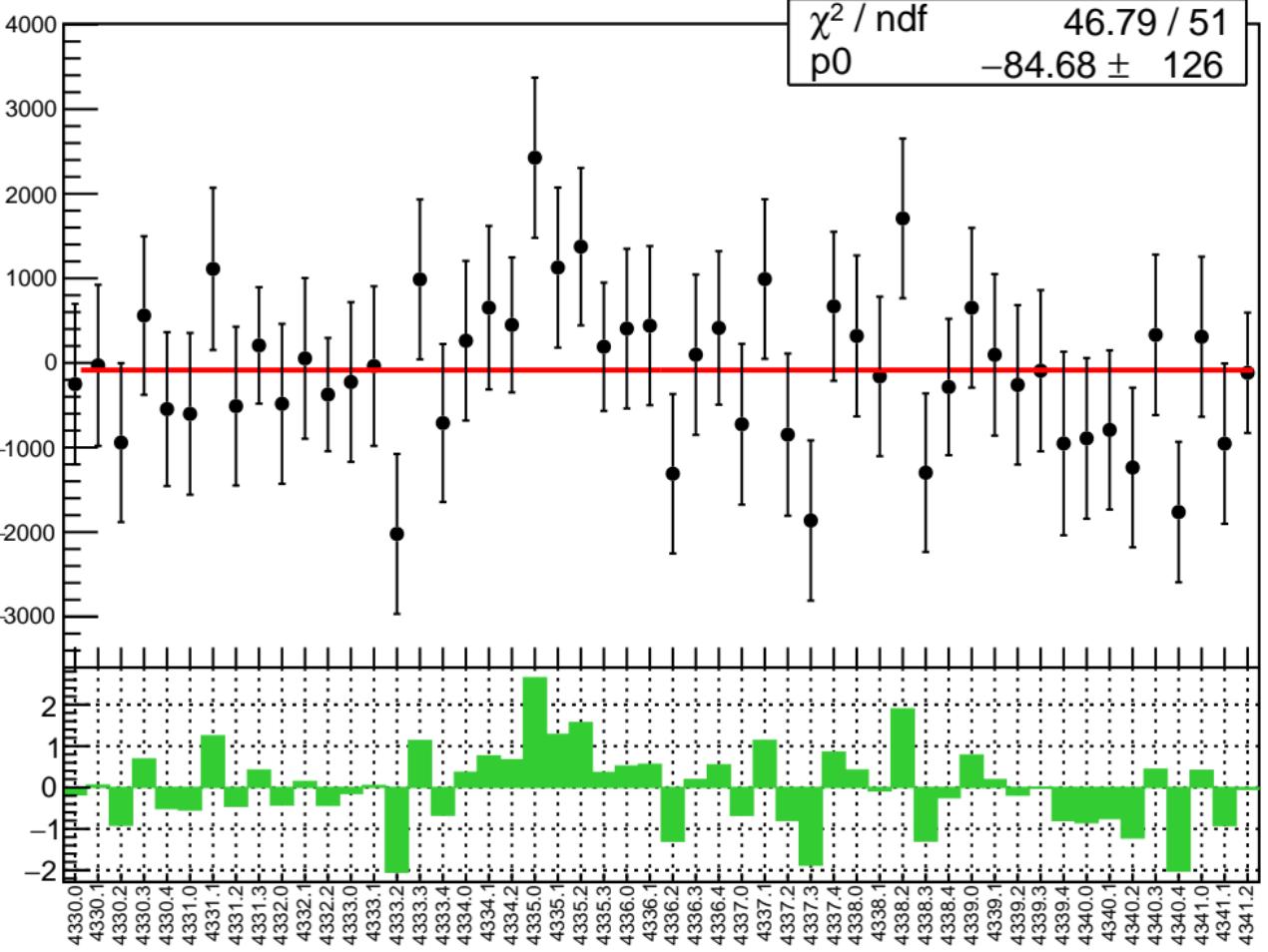


# lagr\_asym\_us\_avg RMS (ppm)

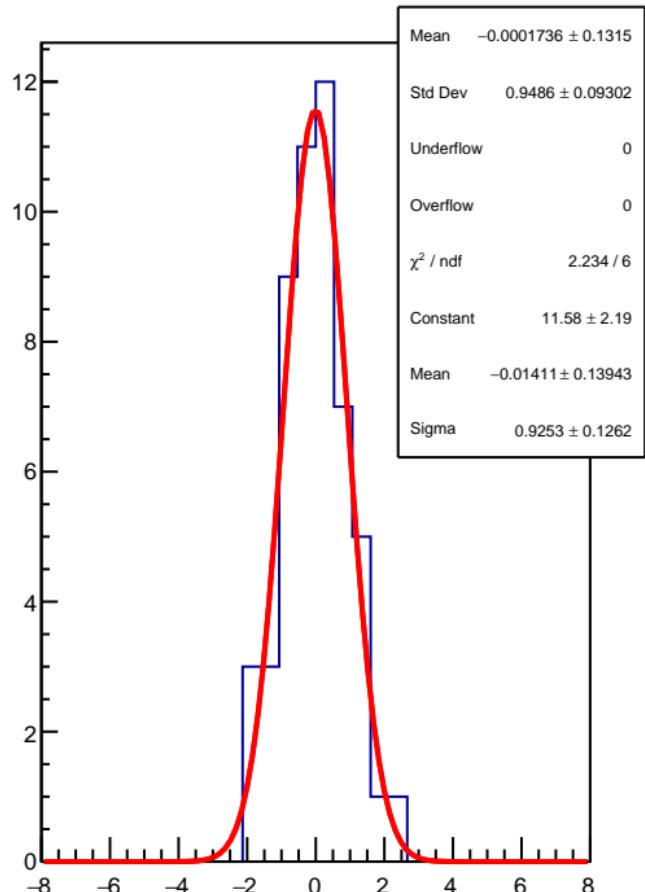
RMS (ppm)



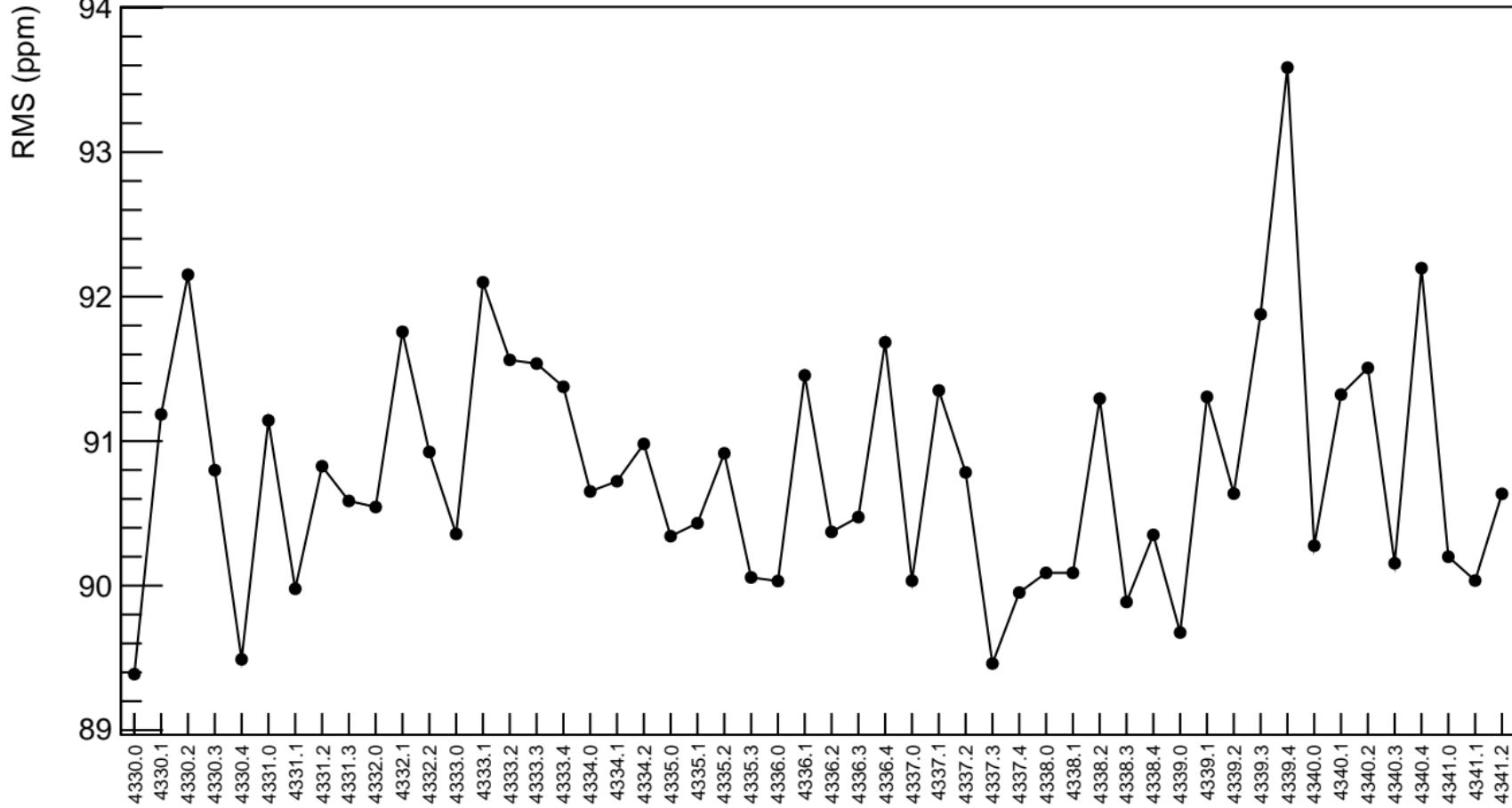
# lagr\_asym\_us\_dd (ppb)



# 1D pull distribution

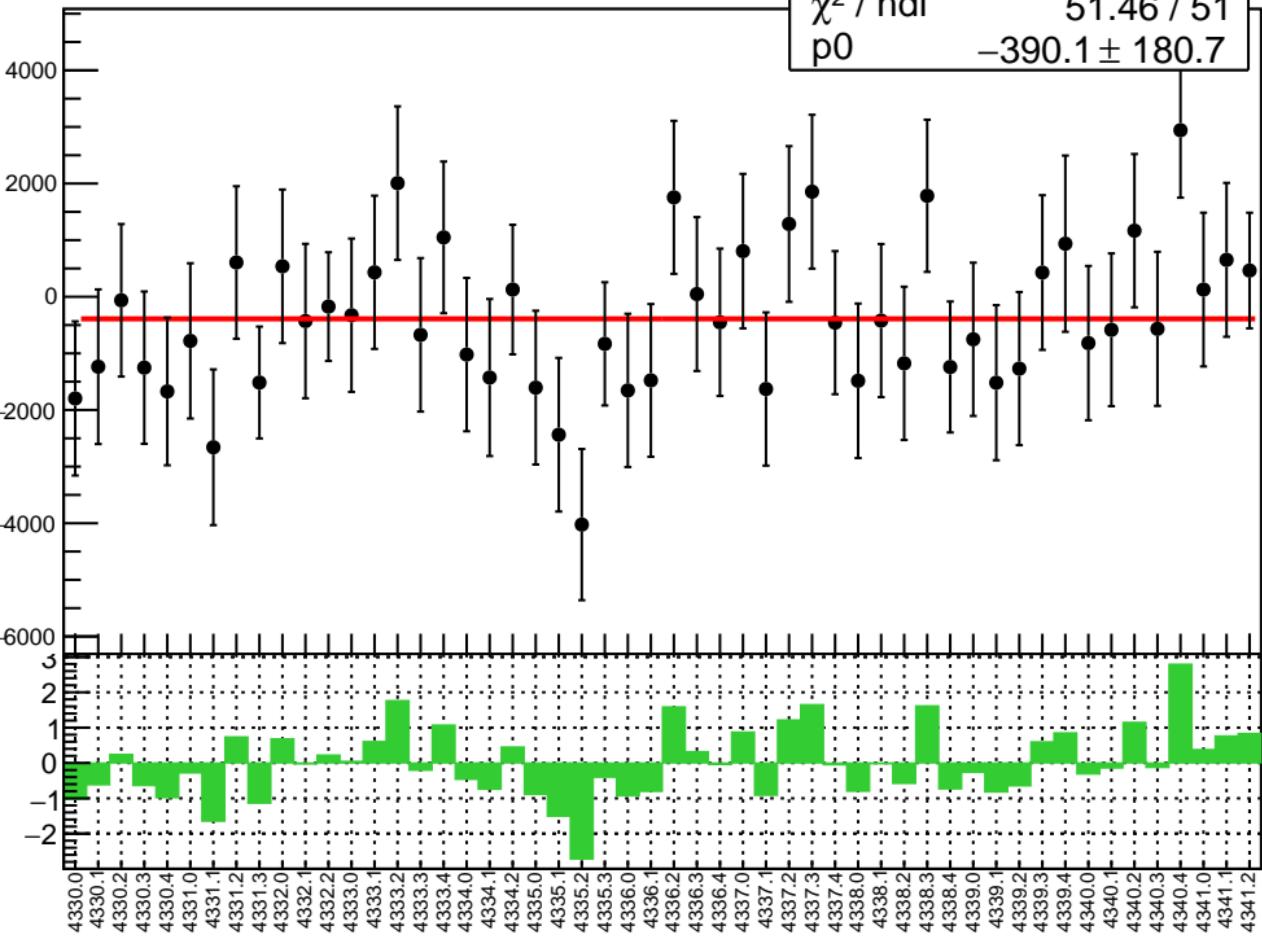


# lagr\_asym\_us\_dd RMS (ppm)

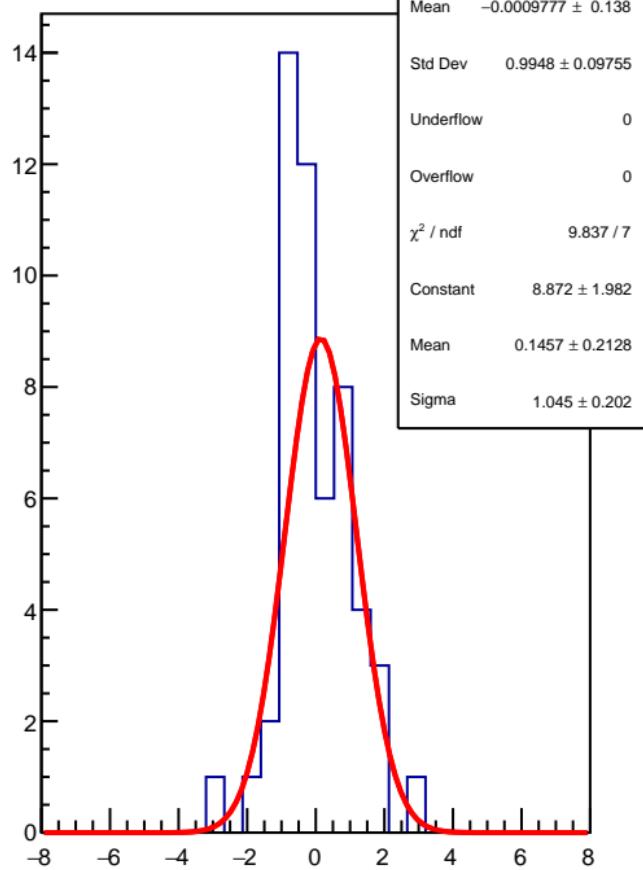


lagr\_asym\_usr (ppb)

$\chi^2 / \text{ndf}$  51.46 / 51  
 $p_0$   $-390.1 \pm 180.7$

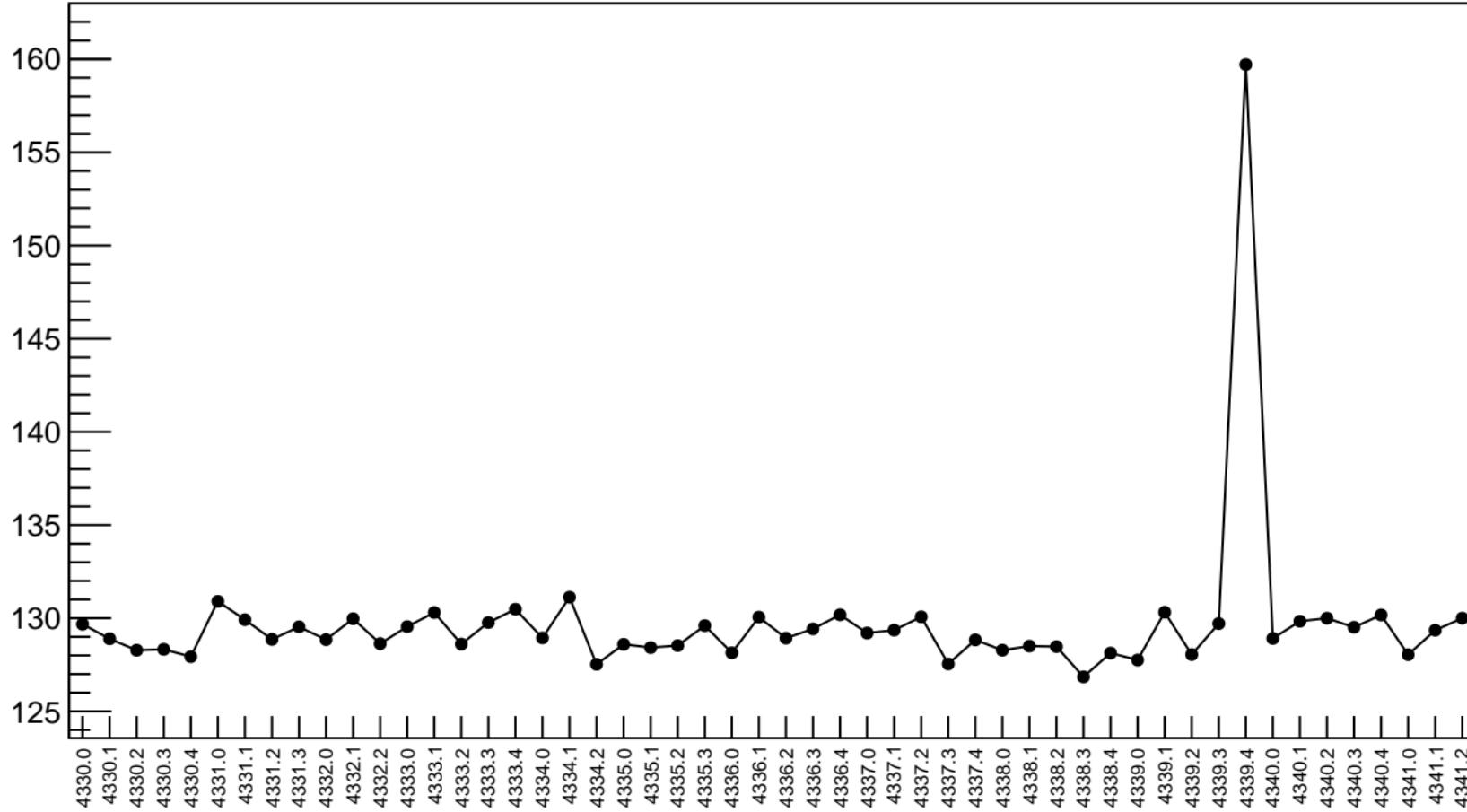


1D pull distribution



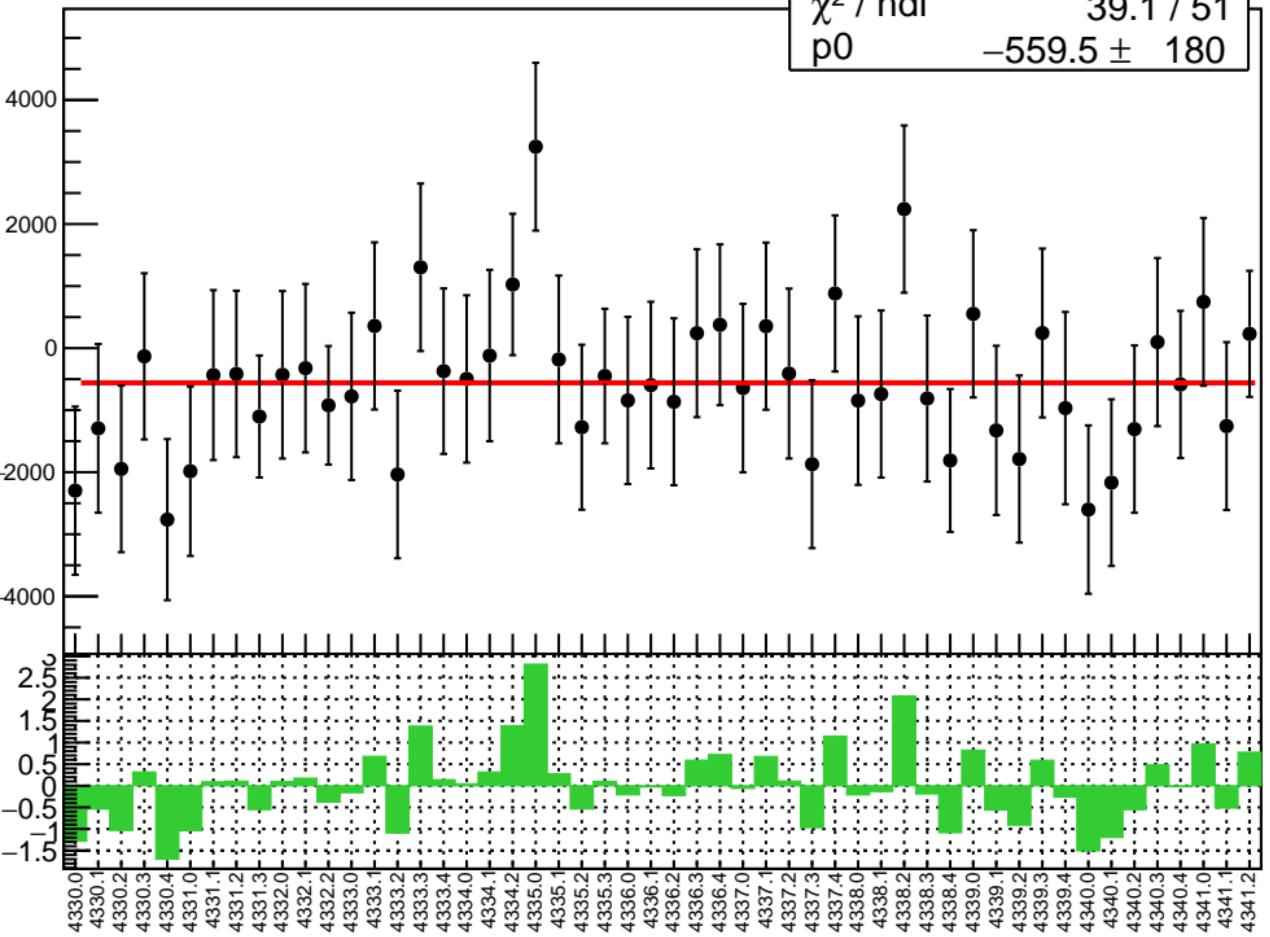
# lagr\_asym\_usr RMS (ppm)

RMS (ppm)

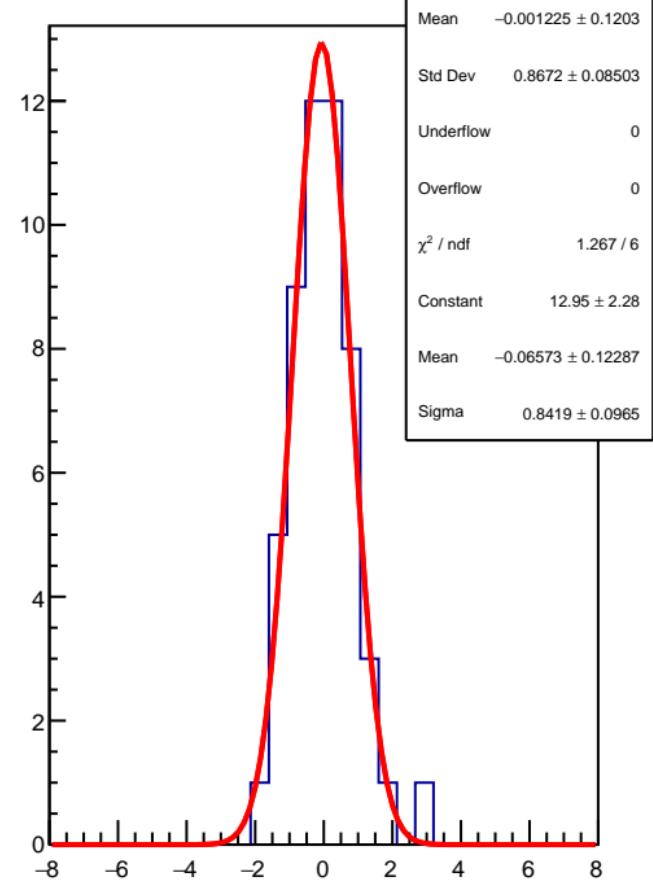


lagr\_asym\_usl (ppb)

$\chi^2 / \text{ndf}$  39.1 / 51  
p0  $-559.5 \pm 180$

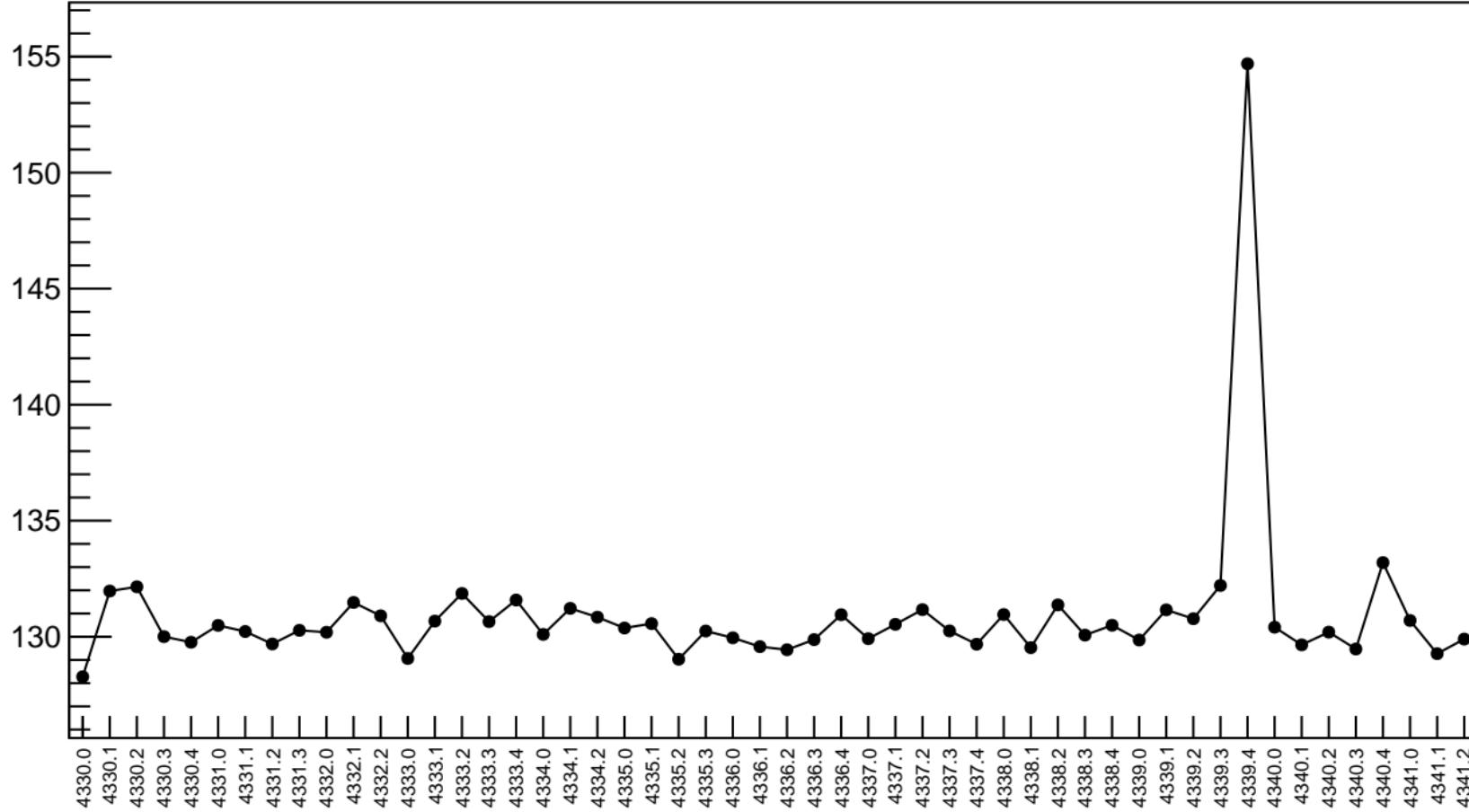


1D pull distribution



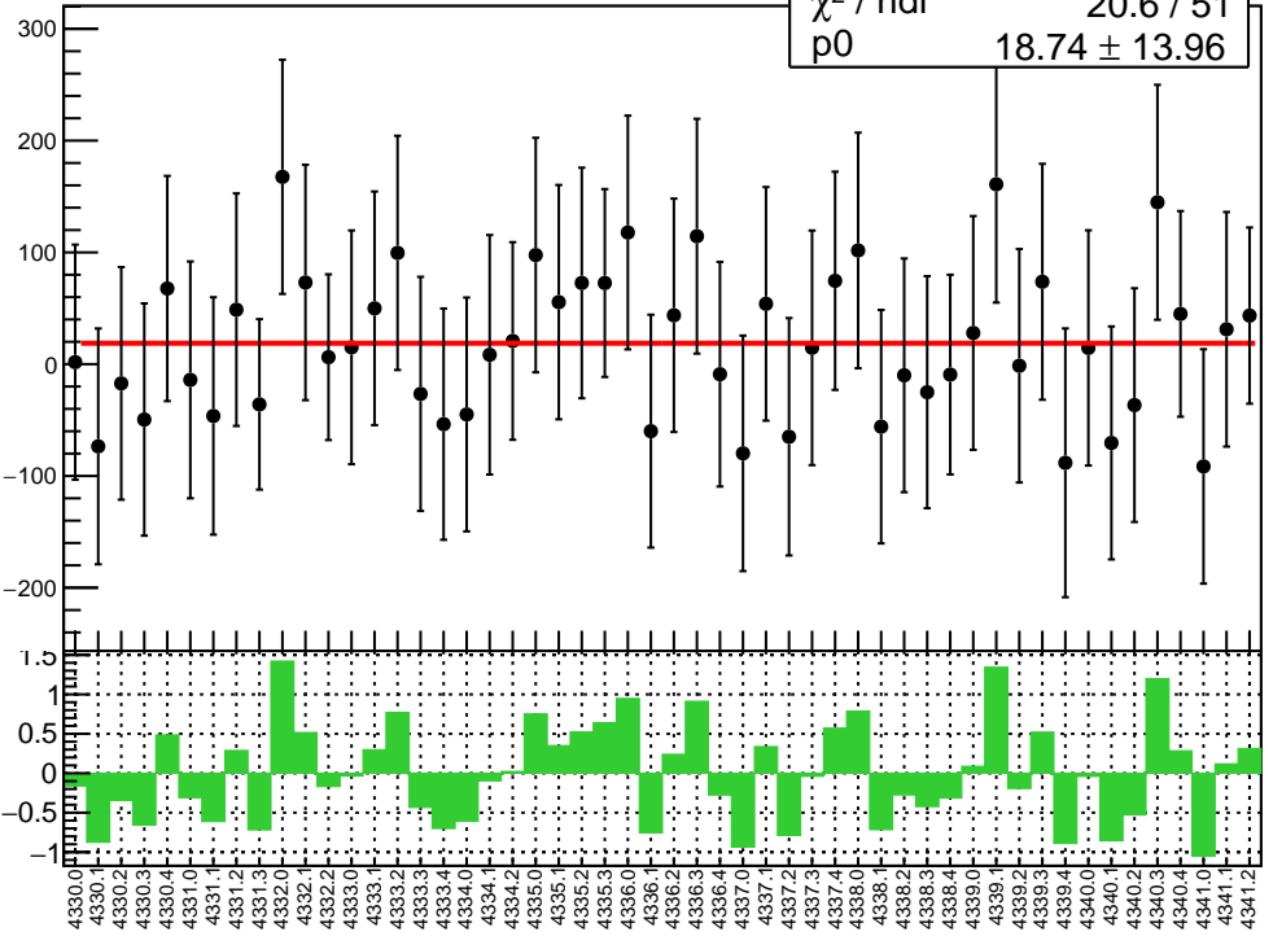
# lagr\_asym\_usl RMS (ppm)

RMS (ppm)

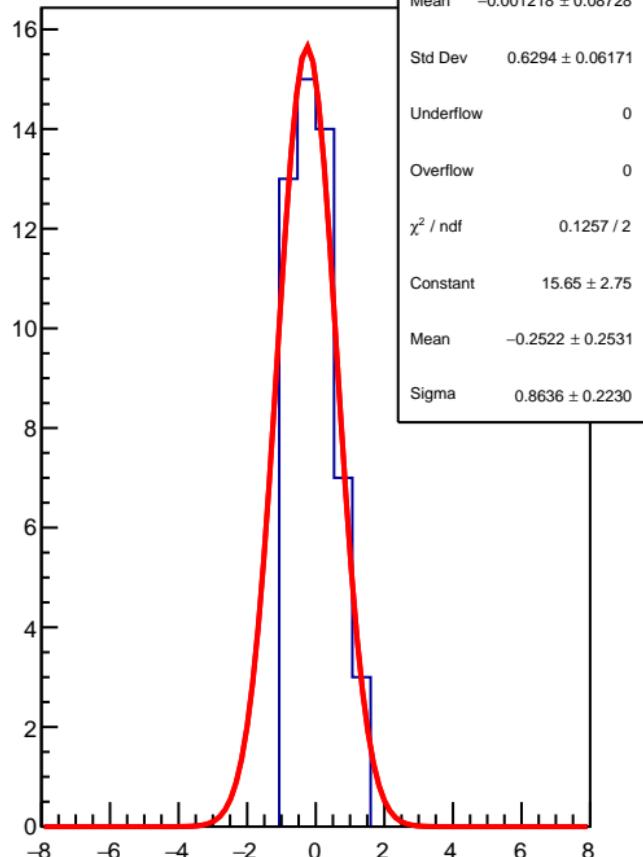


diff\_bpm4eX (nm)

$\chi^2 / \text{ndf}$  20.6 / 51  
p0  $18.74 \pm 13.96$

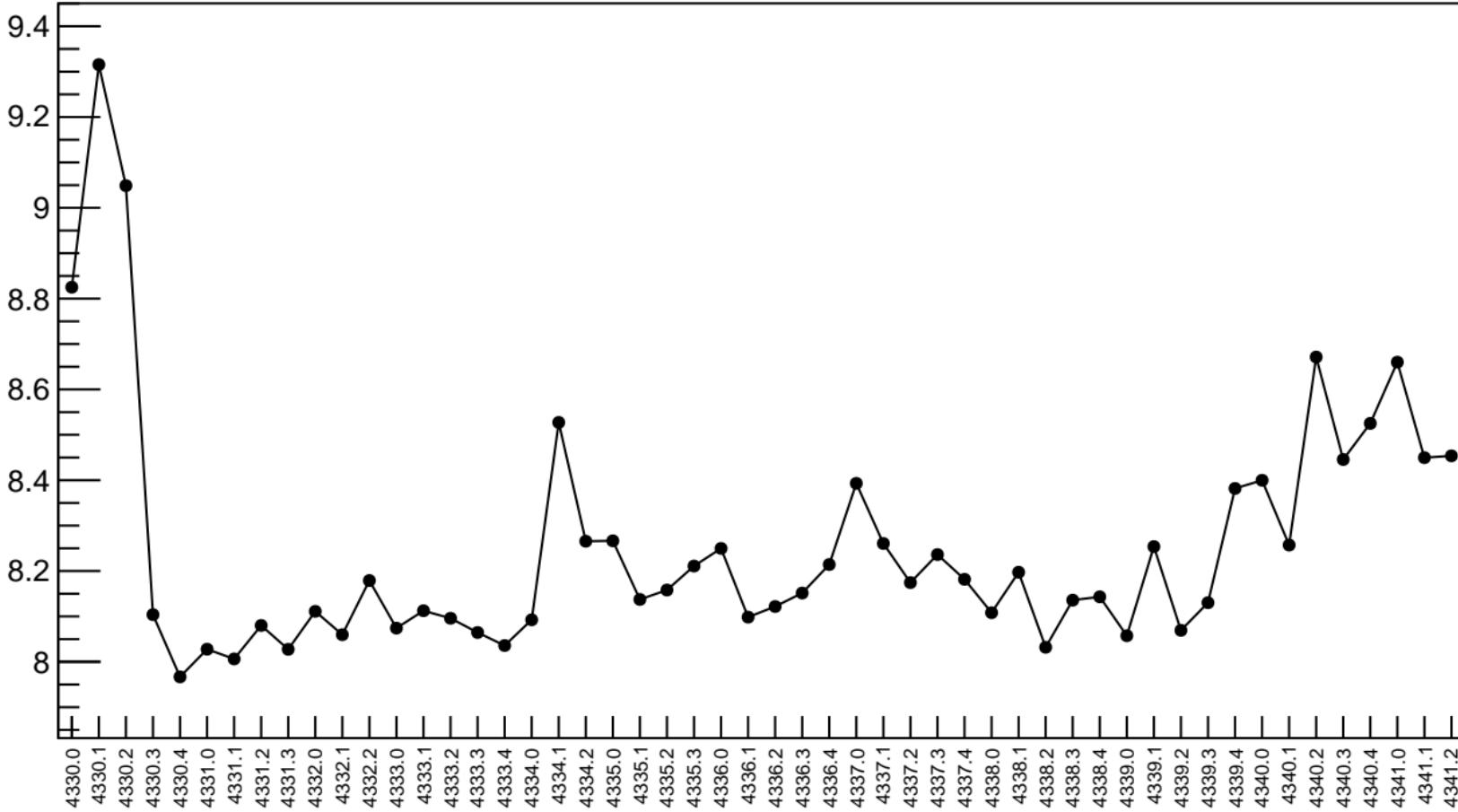


1D pull distribution

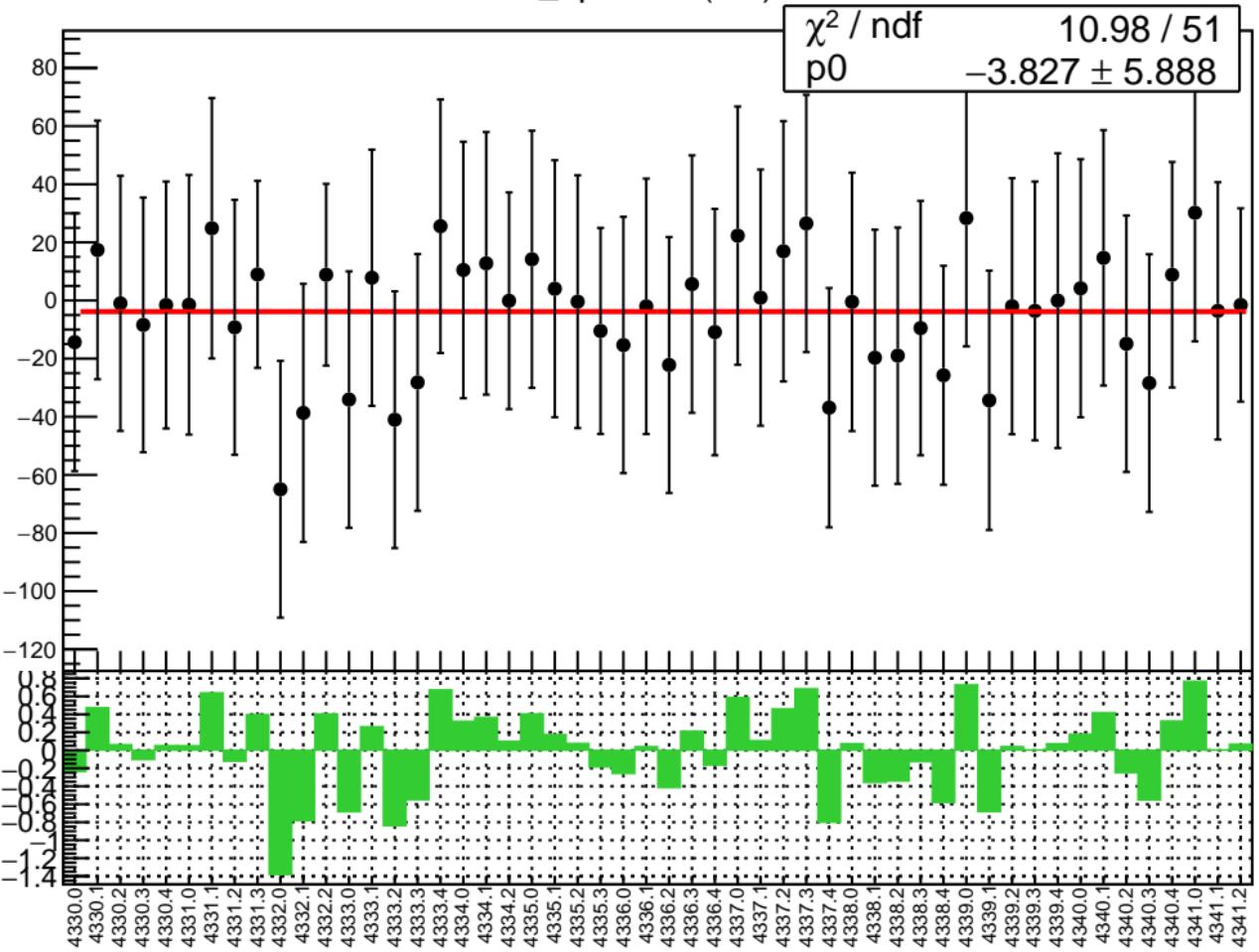


# diff\_bpm4eX RMS (um)

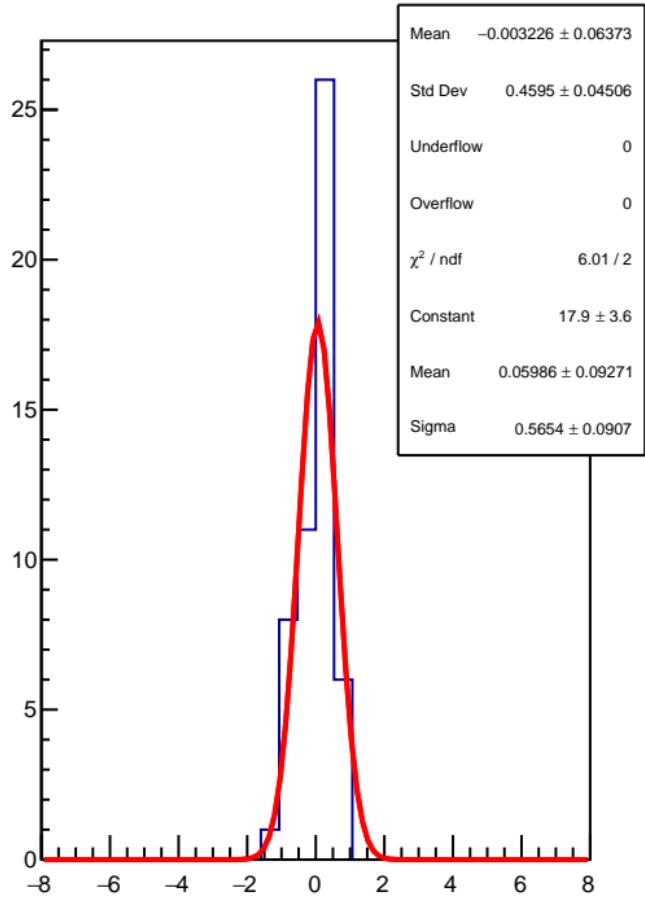
RMS (um)



diff\_bpm4eY (nm)

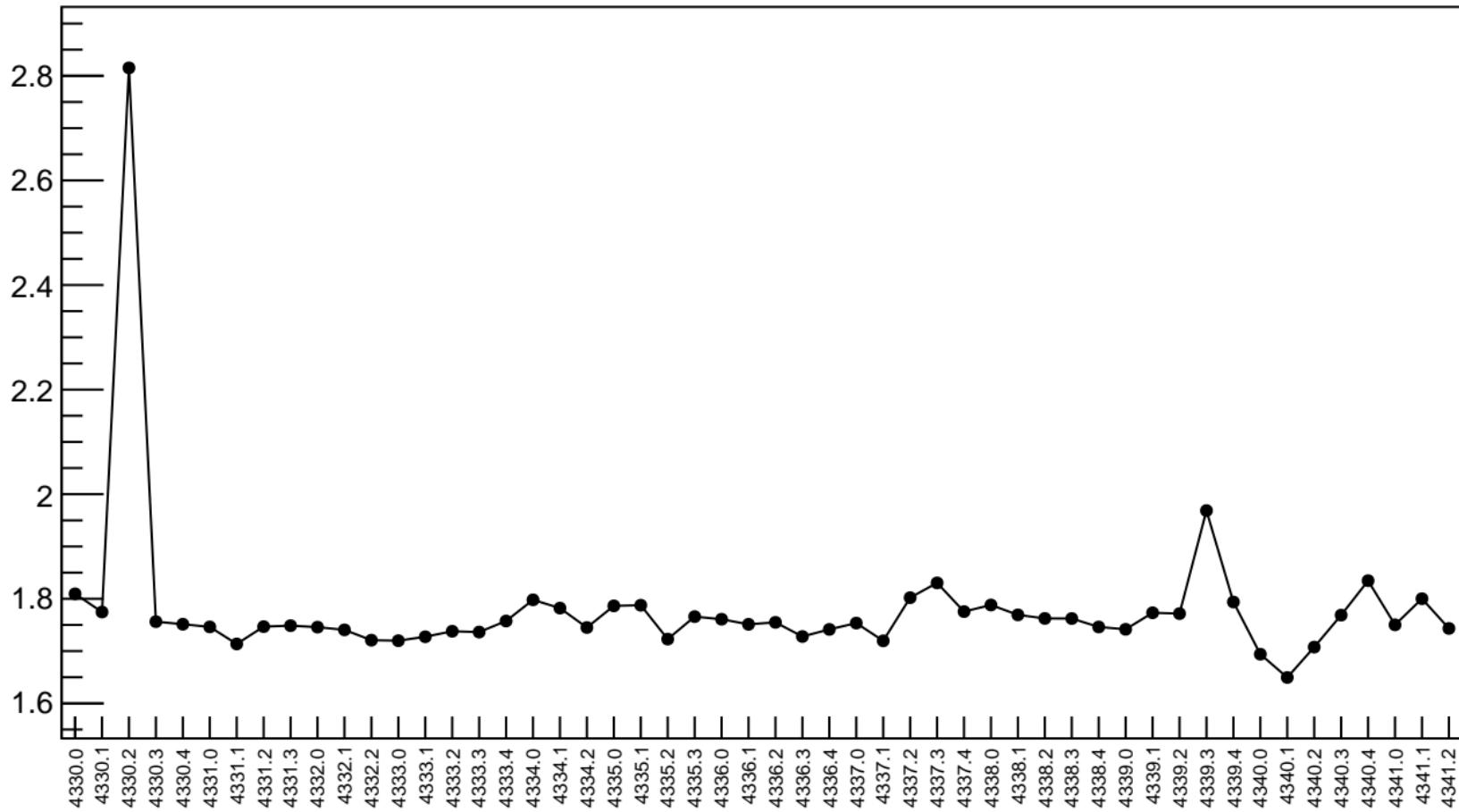


1D pull distribution



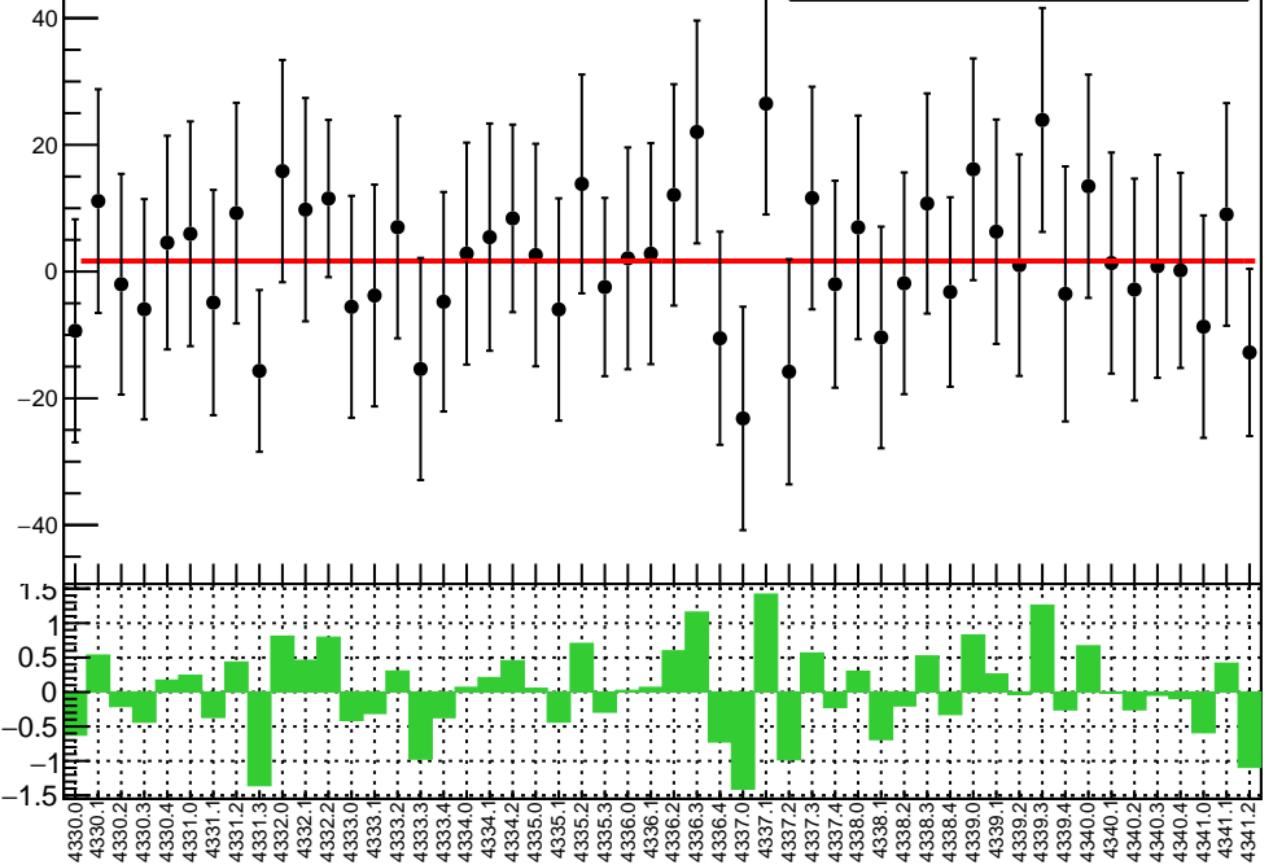
# diff\_bpm4eY RMS (um)

RMS (um)

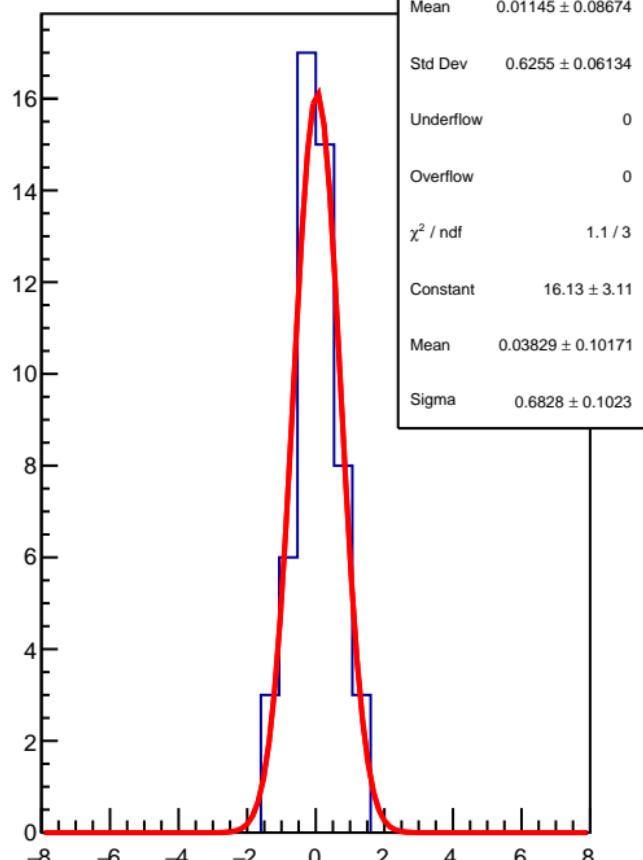


diff\_bpm4aX (nm)

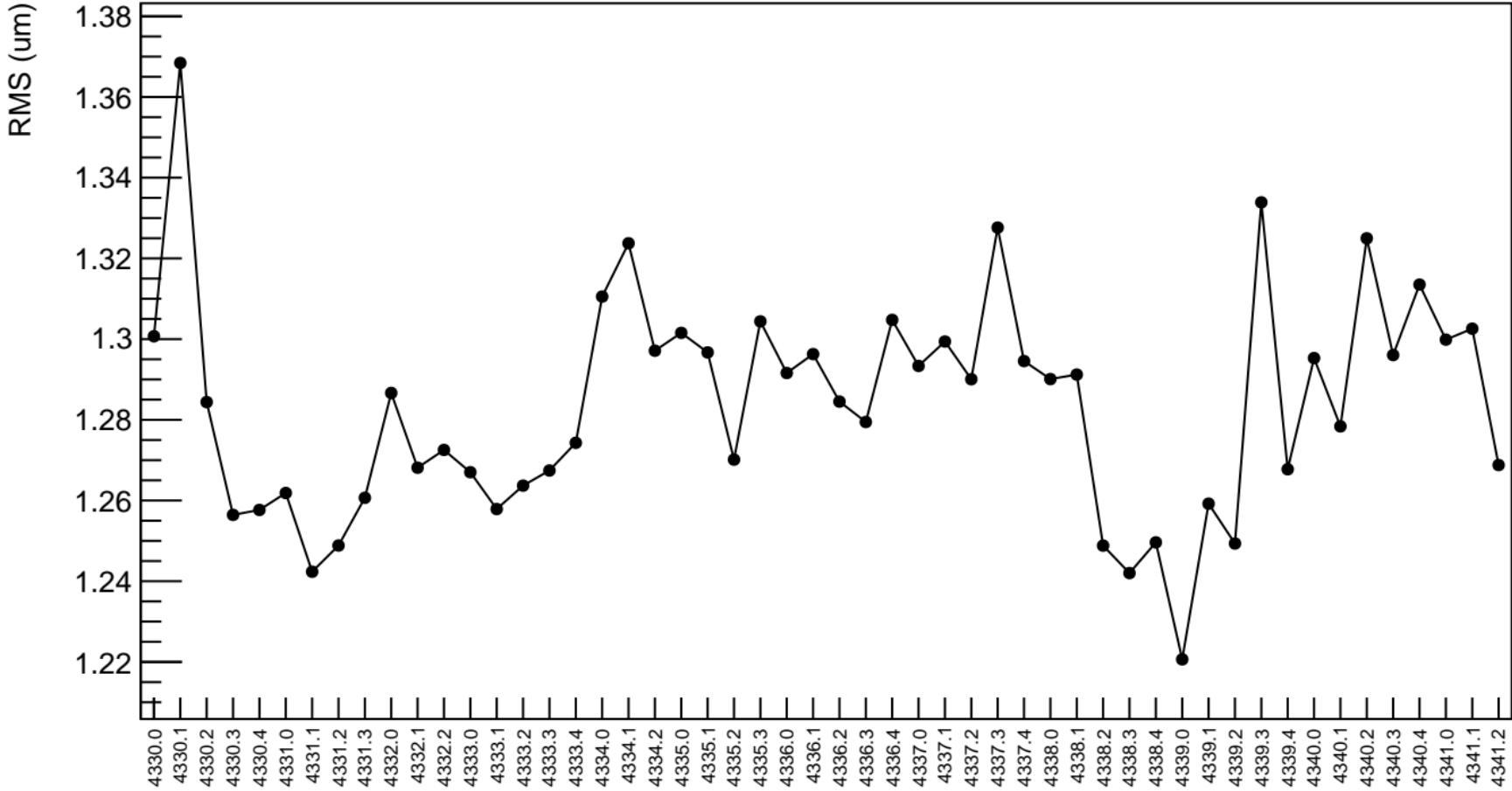
$\chi^2 / \text{ndf}$  20.35 / 51  
p0  $1.662 \pm 2.337$



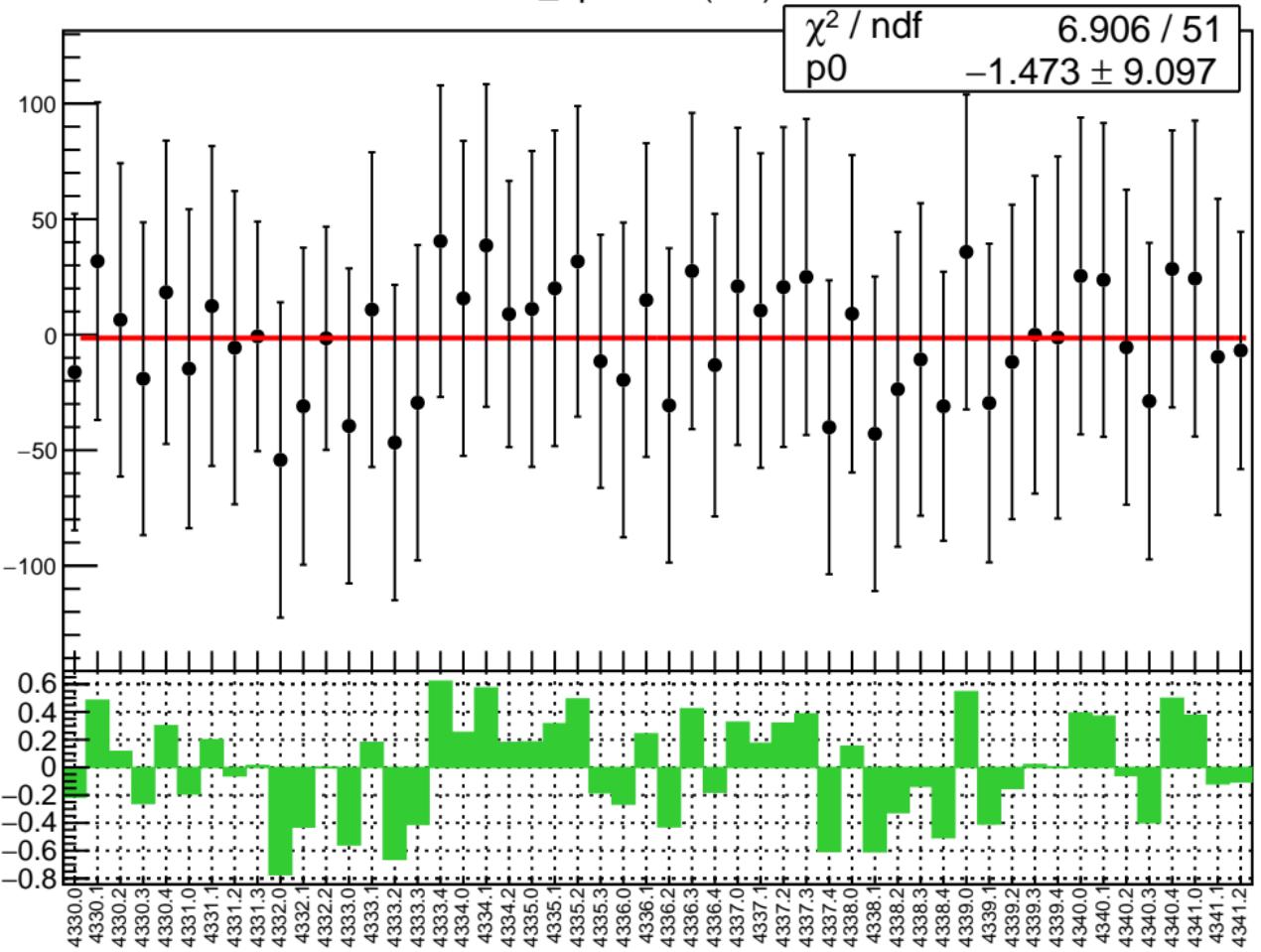
1D pull distribution



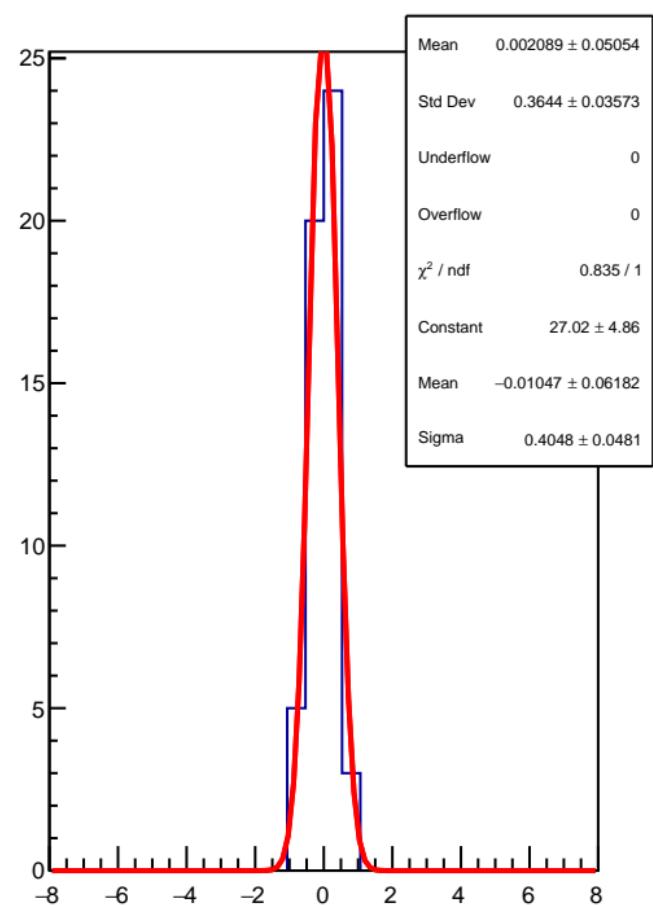
# diff\_bpm4aX RMS (um)



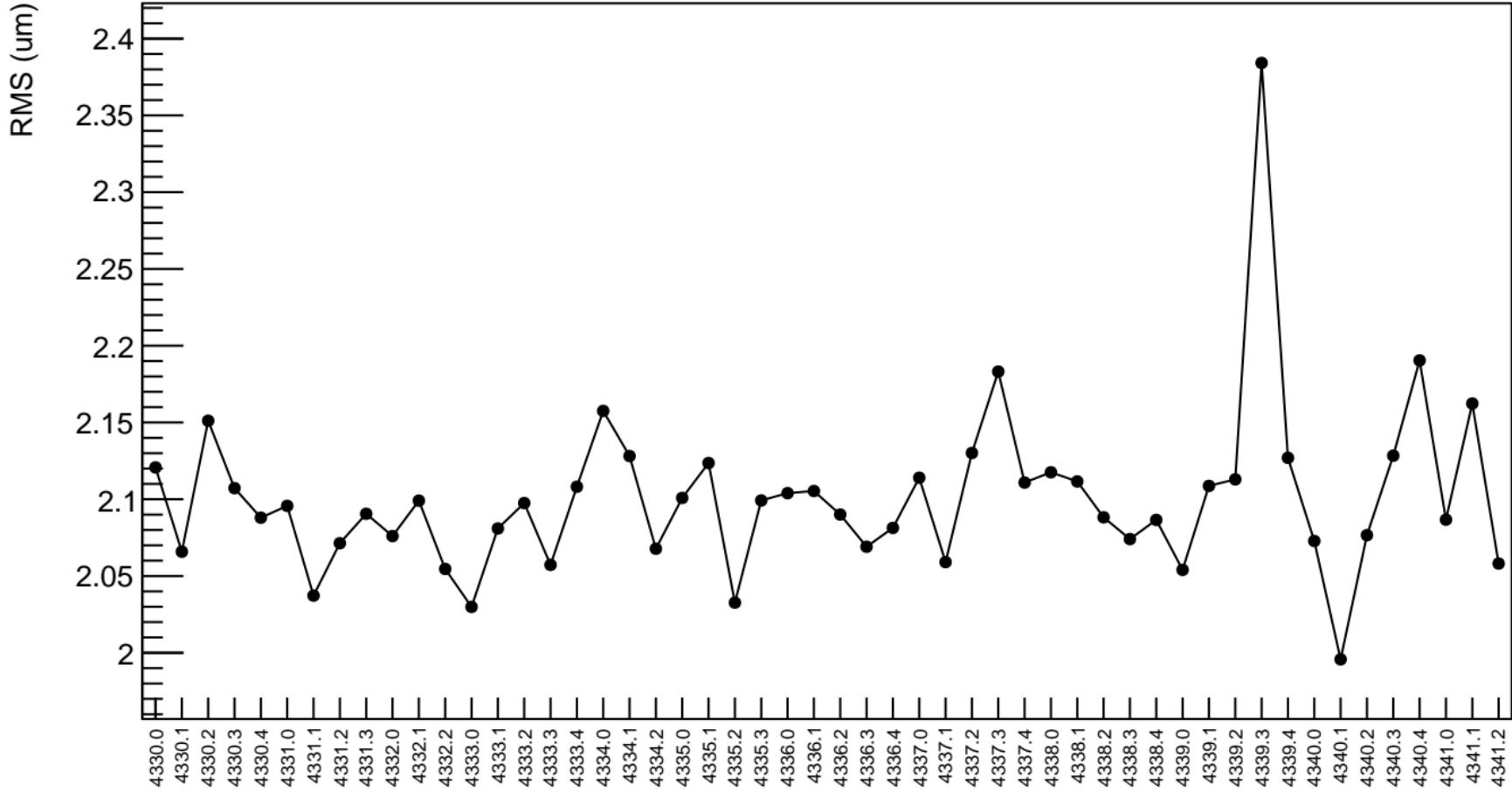
diff\_bpm4aY (nm)



1D pull distribution



# diff\_bpm4aY RMS (um)

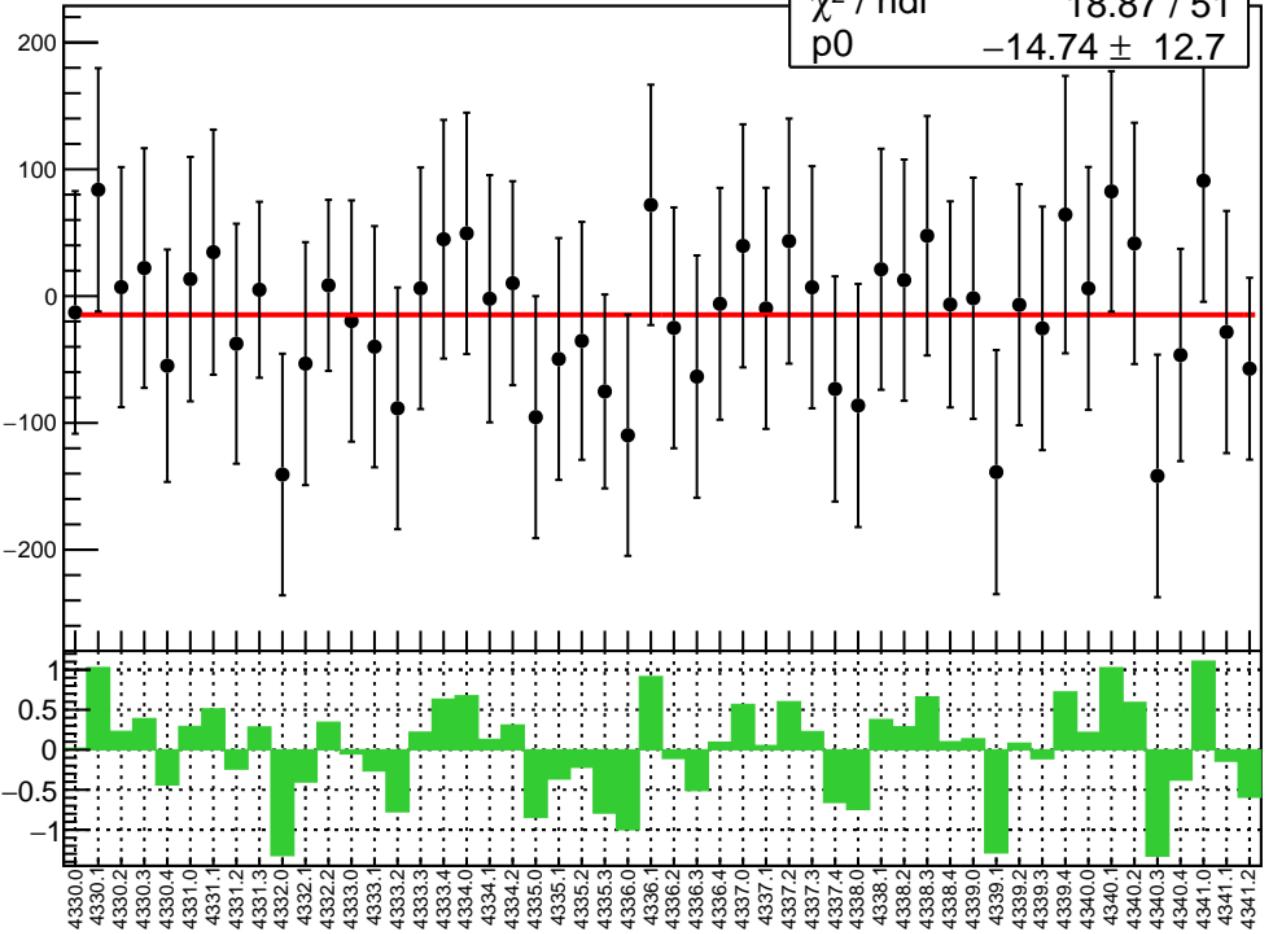


diff\_bpm1X (nm)

$\chi^2 / \text{ndf}$

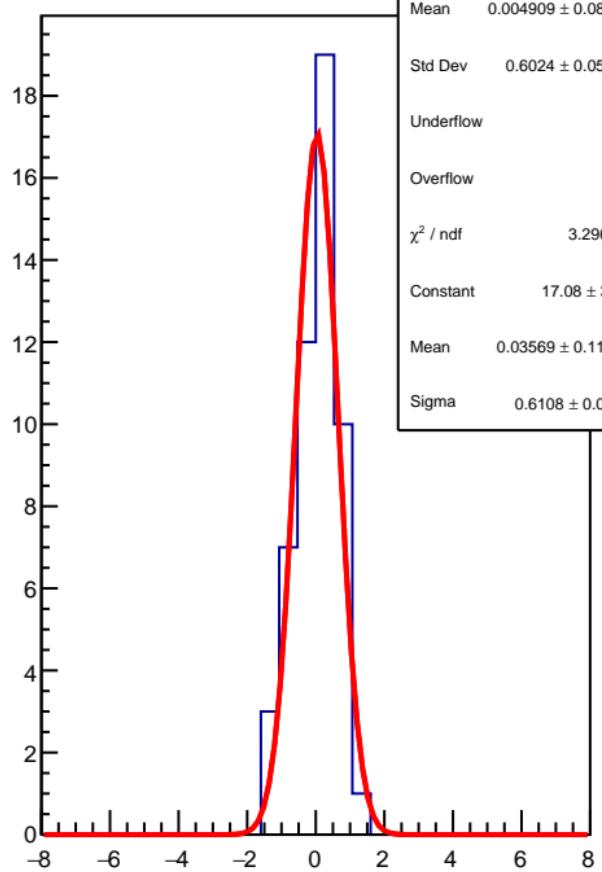
18.87 / 51

p0  $-14.74 \pm 12.7$



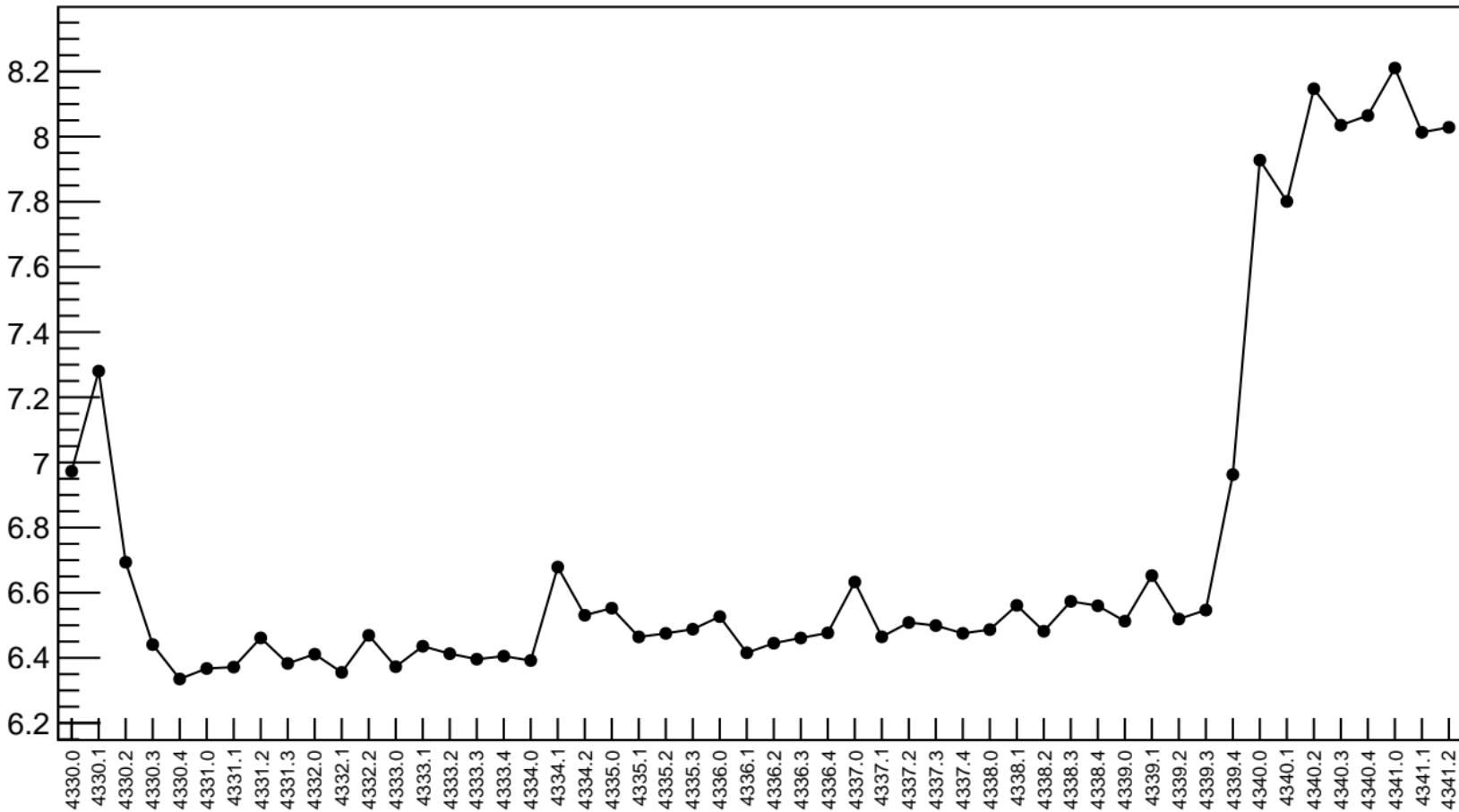
1D pull distribution

Mean	$0.004909 \pm 0.08354$
Std Dev	$0.6024 \pm 0.05907$
Underflow	0
Overflow	0
$\chi^2 / \text{ndf}$	3.296 / 3
Constant	$17.08 \pm 3.30$
Mean	$0.03569 \pm 0.11200$
Sigma	$0.6108 \pm 0.0836$



# diff\_bpm1X RMS (um)

RMS (um)

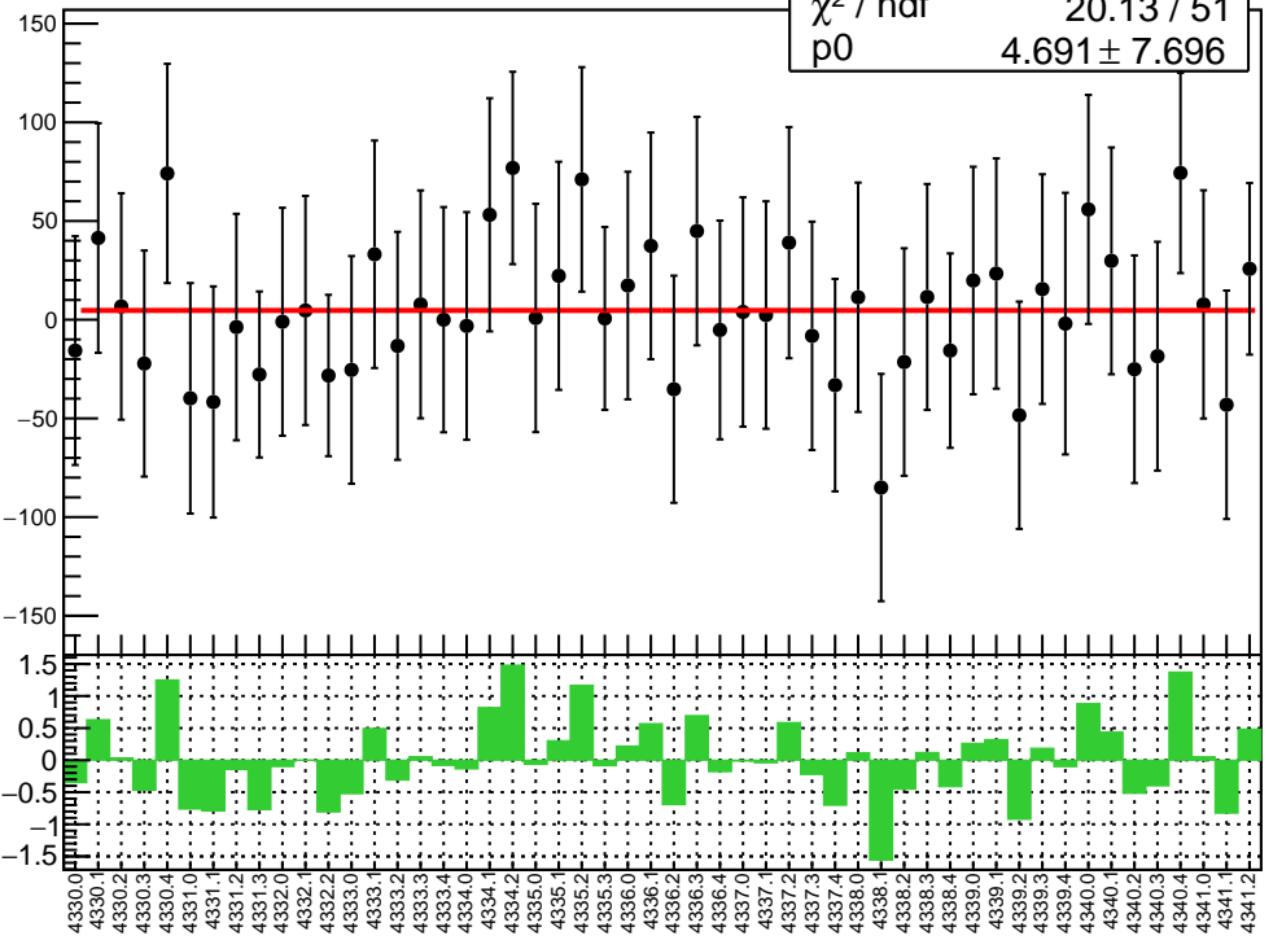


diff\_bpm1Y (nm)

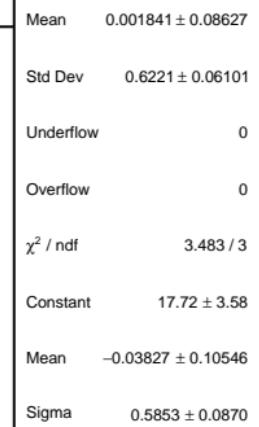
$\chi^2 / \text{ndf}$

20.13 / 51

$p_0$   
 $4.691 \pm 7.696$

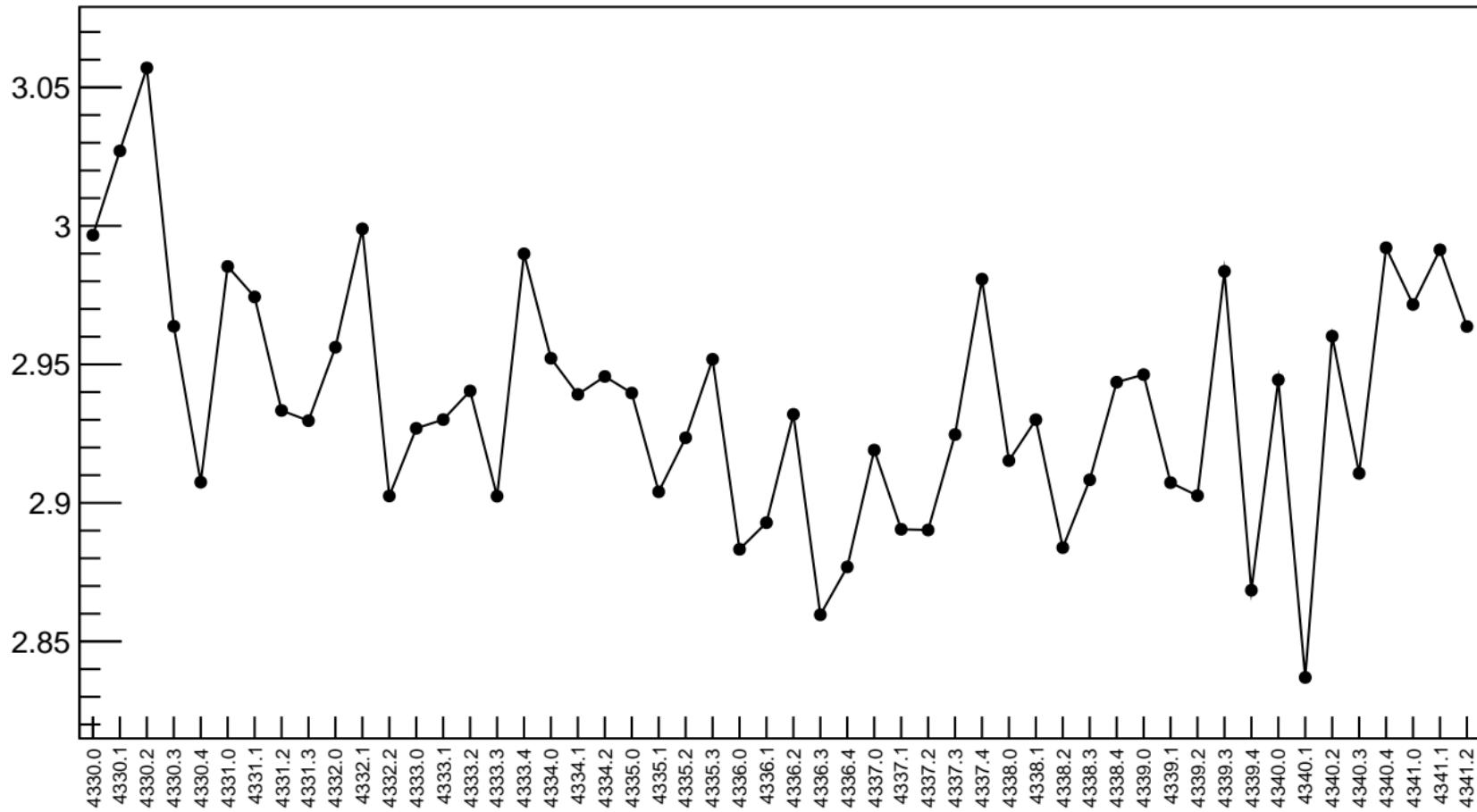


1D pull distribution



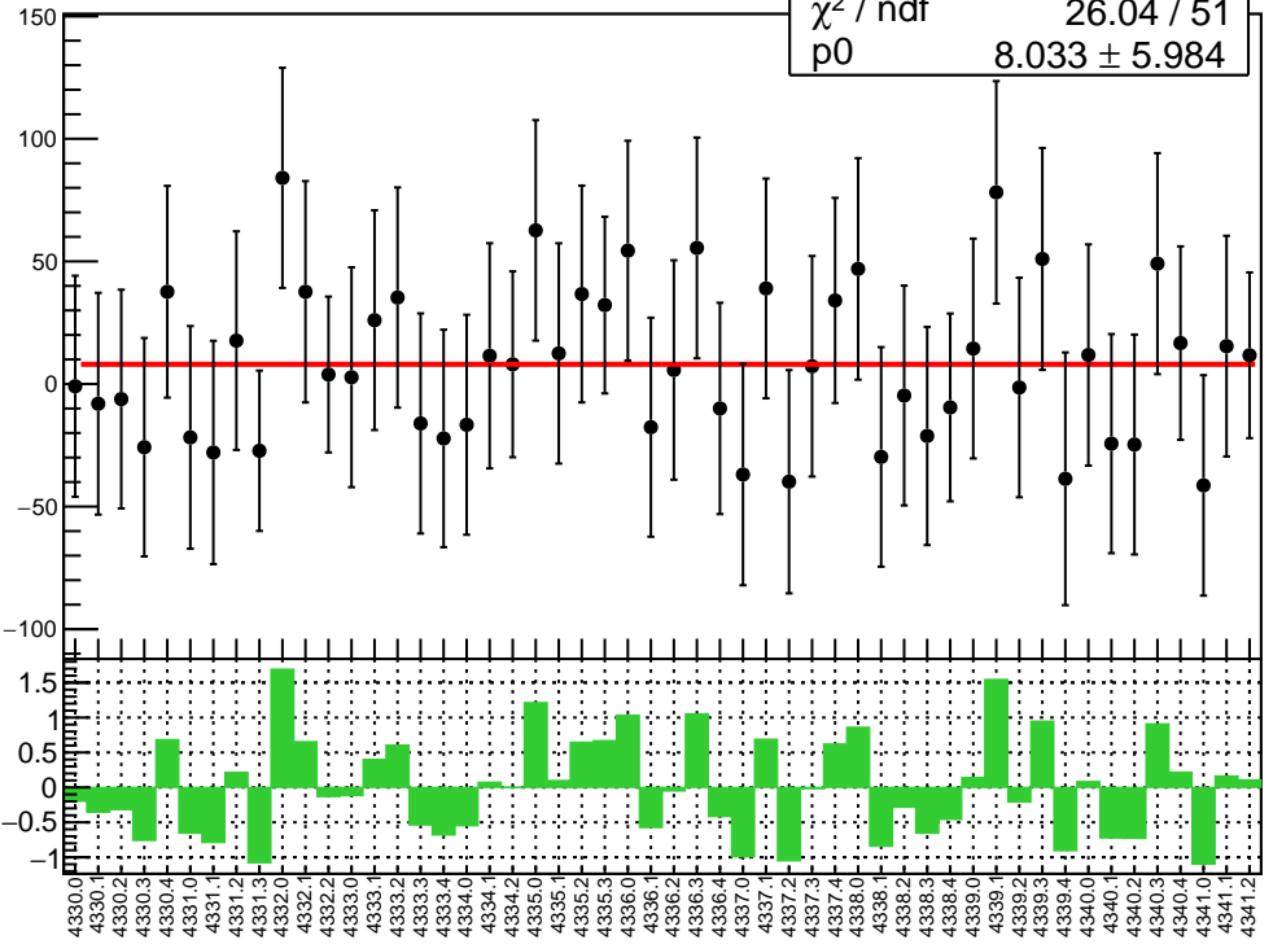
# diff\_bpm1Y RMS (um)

RMS (um)

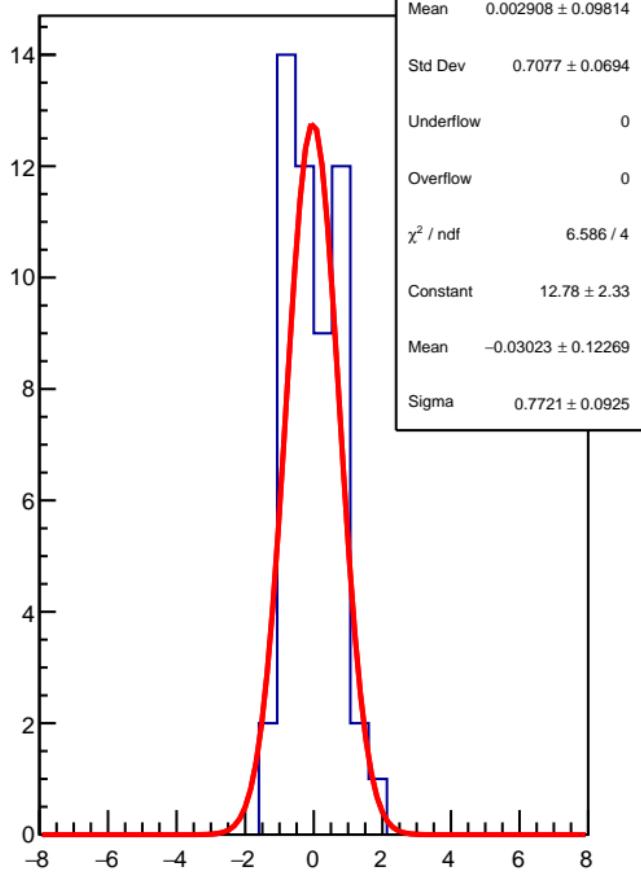


diff\_bpm16X (nm)

$\chi^2 / \text{ndf}$  26.04 / 51  
p0  $8.033 \pm 5.984$

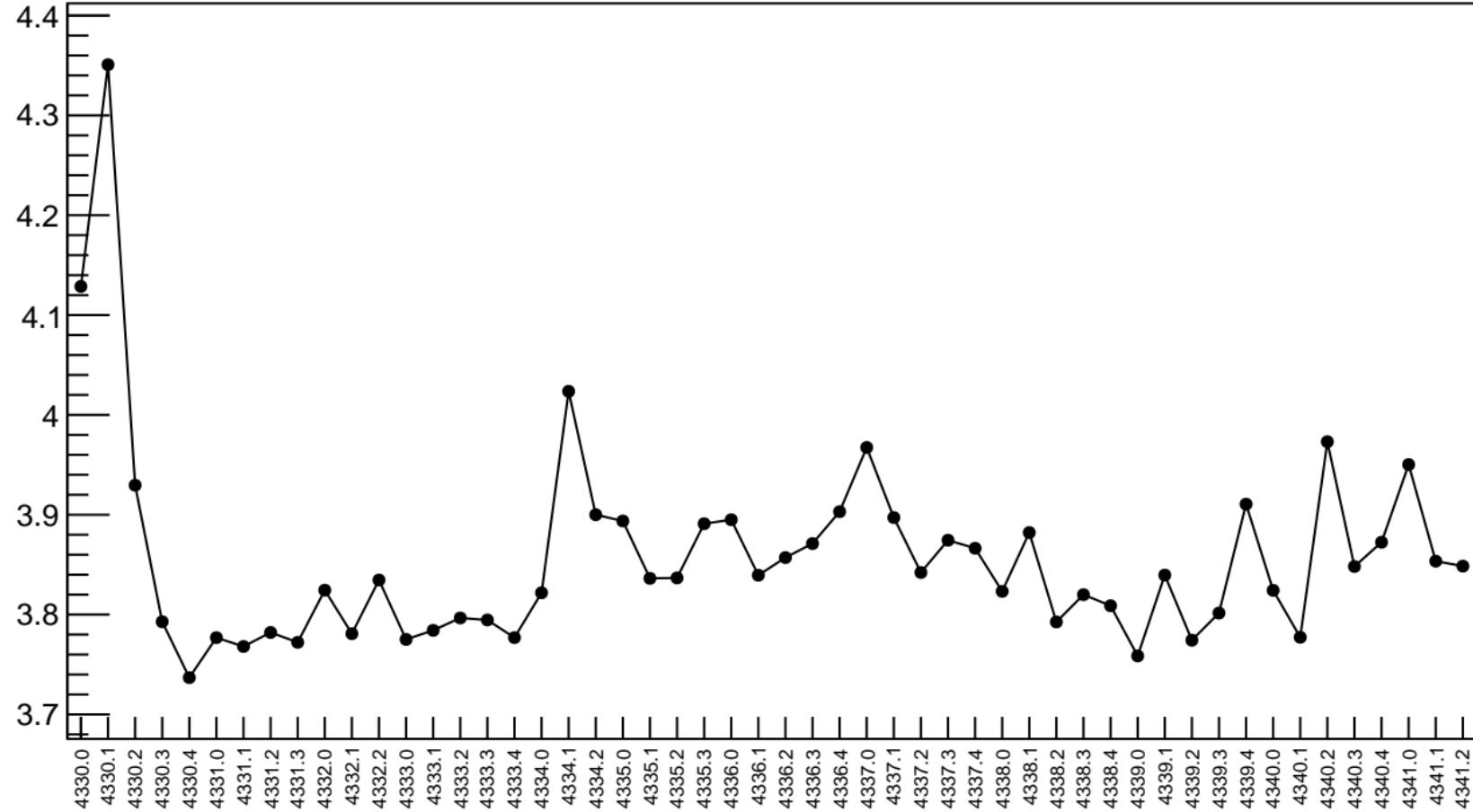


1D pull distribution



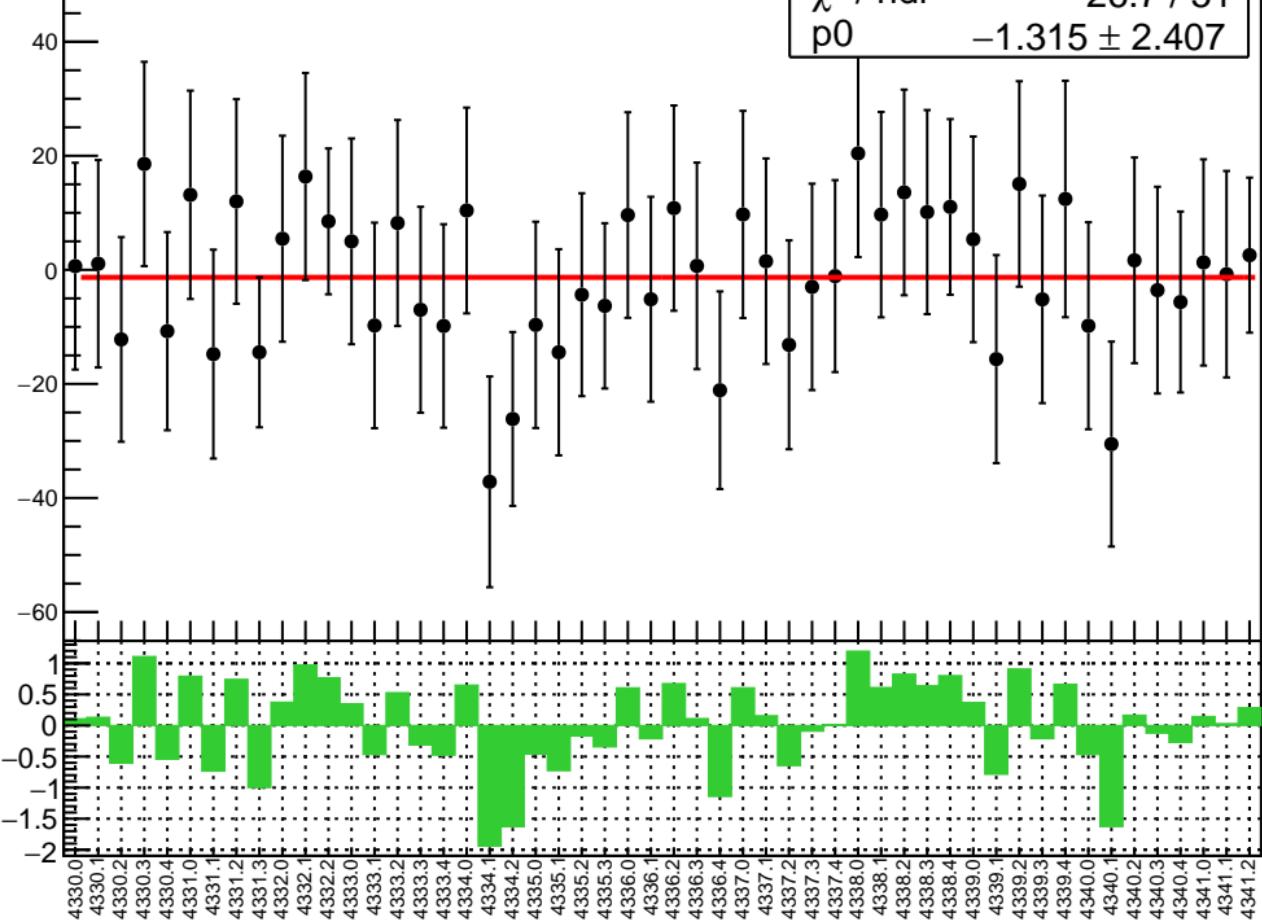
# diff\_bpm16X RMS (um)

RMS (um)

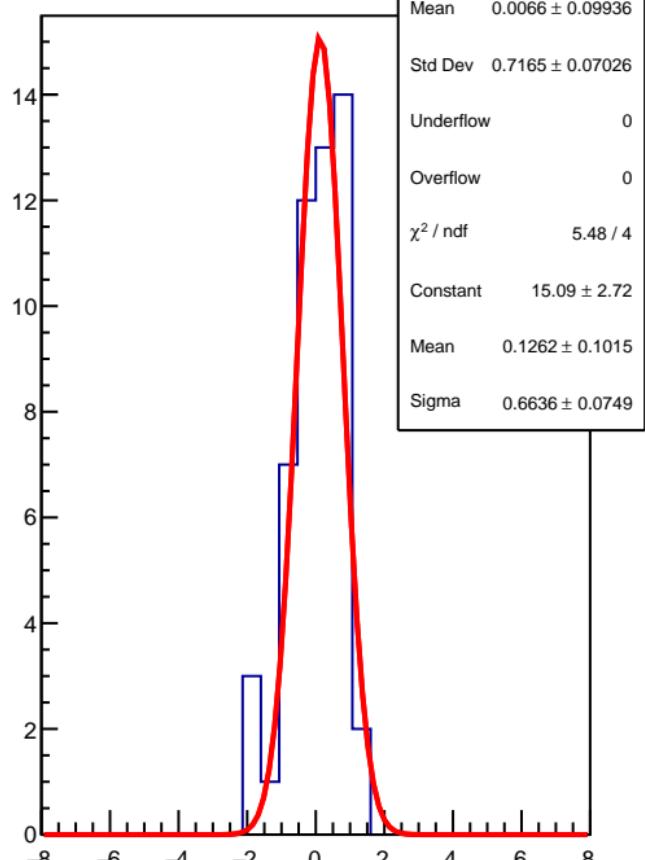


diff\_bpm16Y (nm)

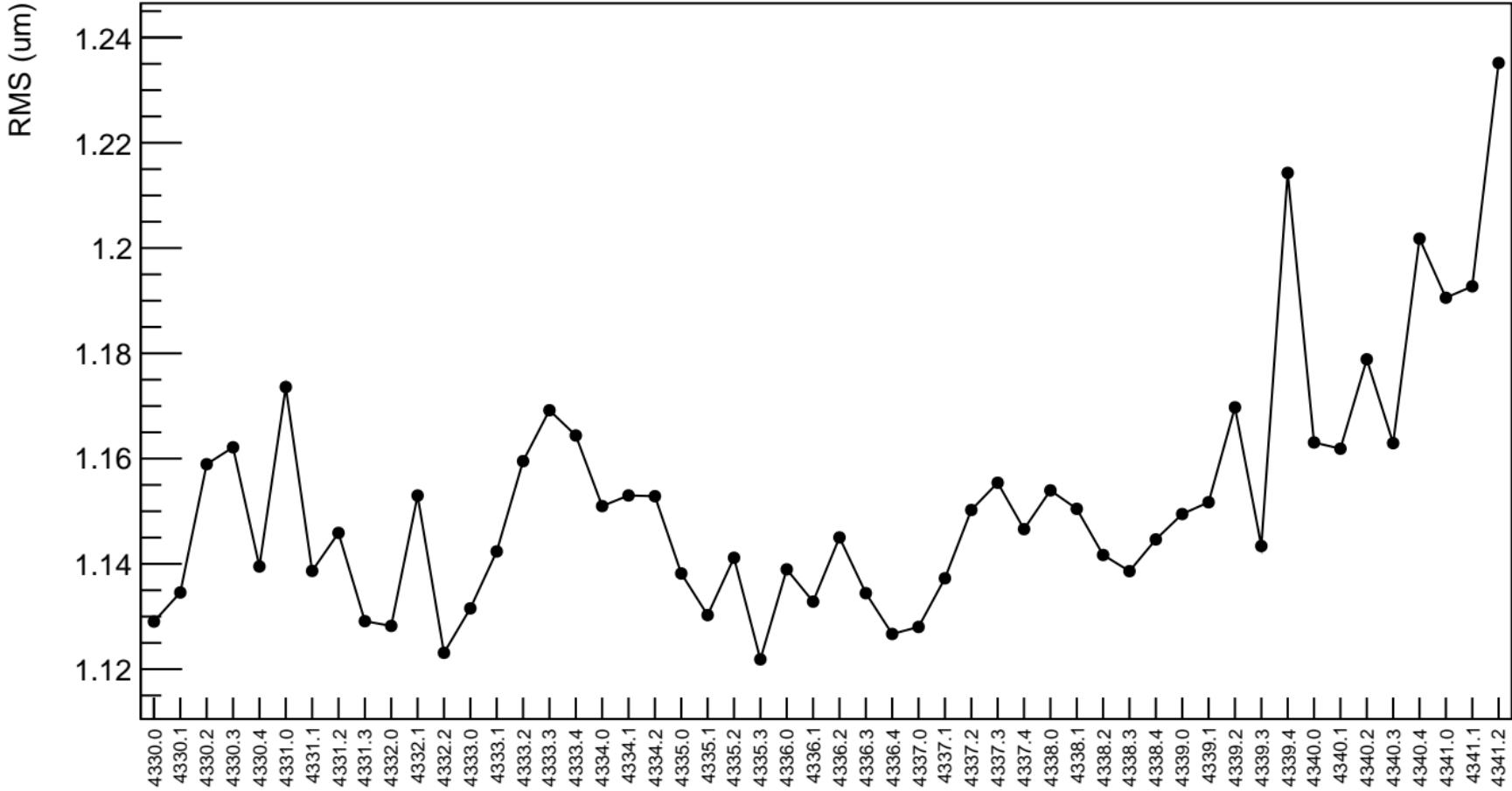
$\chi^2 / \text{ndf}$  26.7 / 51  
 $p_0$   $-1.315 \pm 2.407$



1D pull distribution



# diff\_bpm16Y RMS (um)

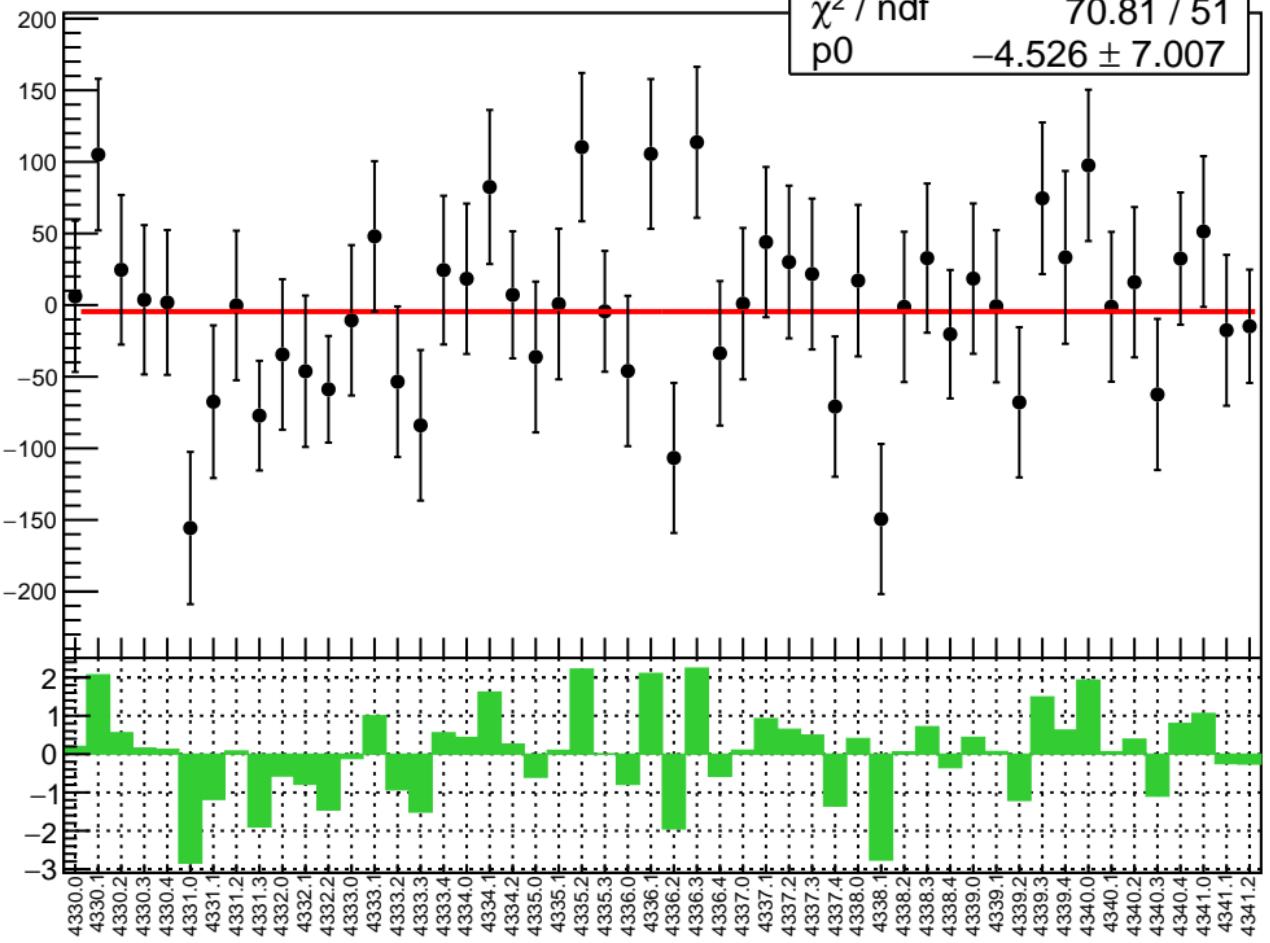


diff\_bpm12X (nm)

$\chi^2 / \text{ndf}$

70.81 / 51

p0  $-4.526 \pm 7.007$



1D pull distribution

16

14

12

10

8

6

4

2

0

Mean	$0.02845 \pm 0.1618$
Std Dev	$1.167 \pm 0.1144$
Underflow	0
Overflow	0
$\chi^2 / \text{ndf}$	17.52 / 7
Constant	$5.981 \pm 1.668$
Mean	$-0.333 \pm 0.283$
Sigma	$1.323 \pm 0.393$

-8 -6 -4 -2 0 2 4 6 8

1D pull distribution

16

14

12

10

8

6

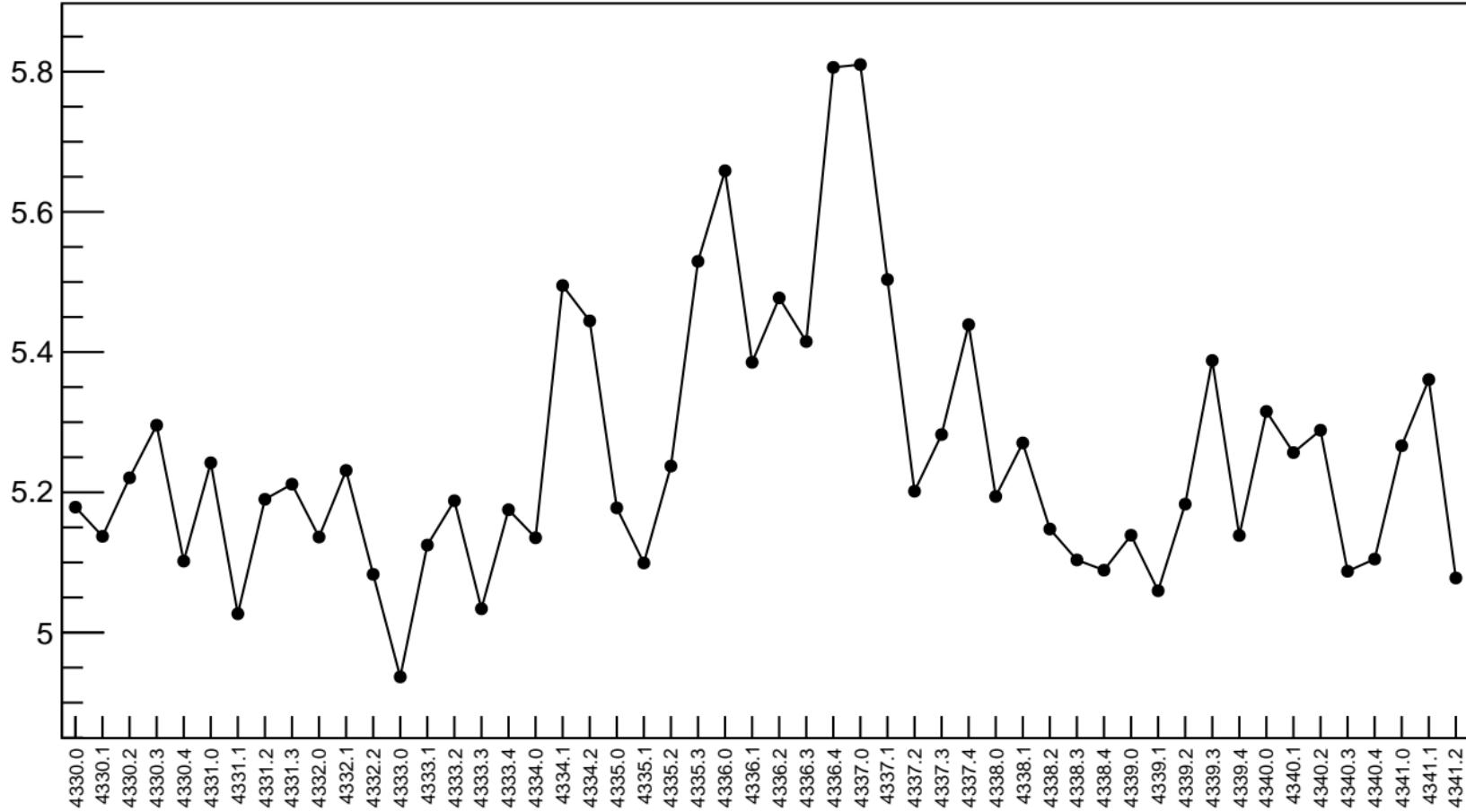
4

2

0

# diff\_bpm12X RMS (um)

RMS (um)

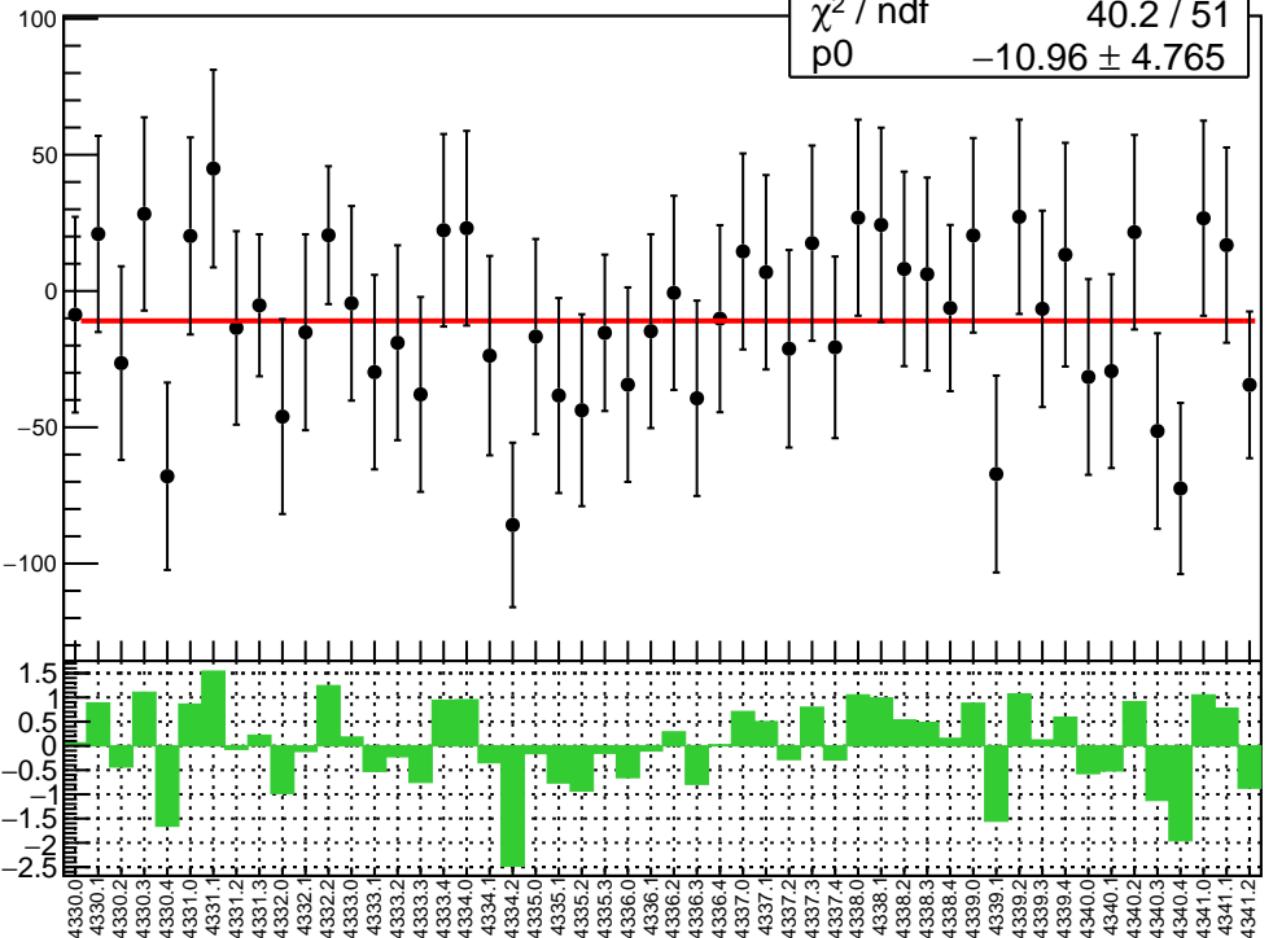


diff\_bpm12Y (nm)

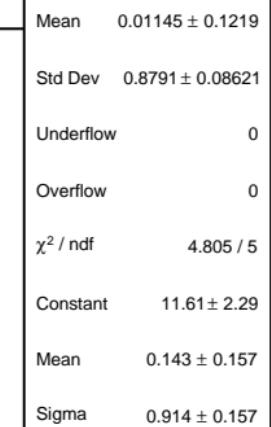
$\chi^2 / \text{ndf}$

40.2 / 51

$p_0$   $-10.96 \pm 4.765$

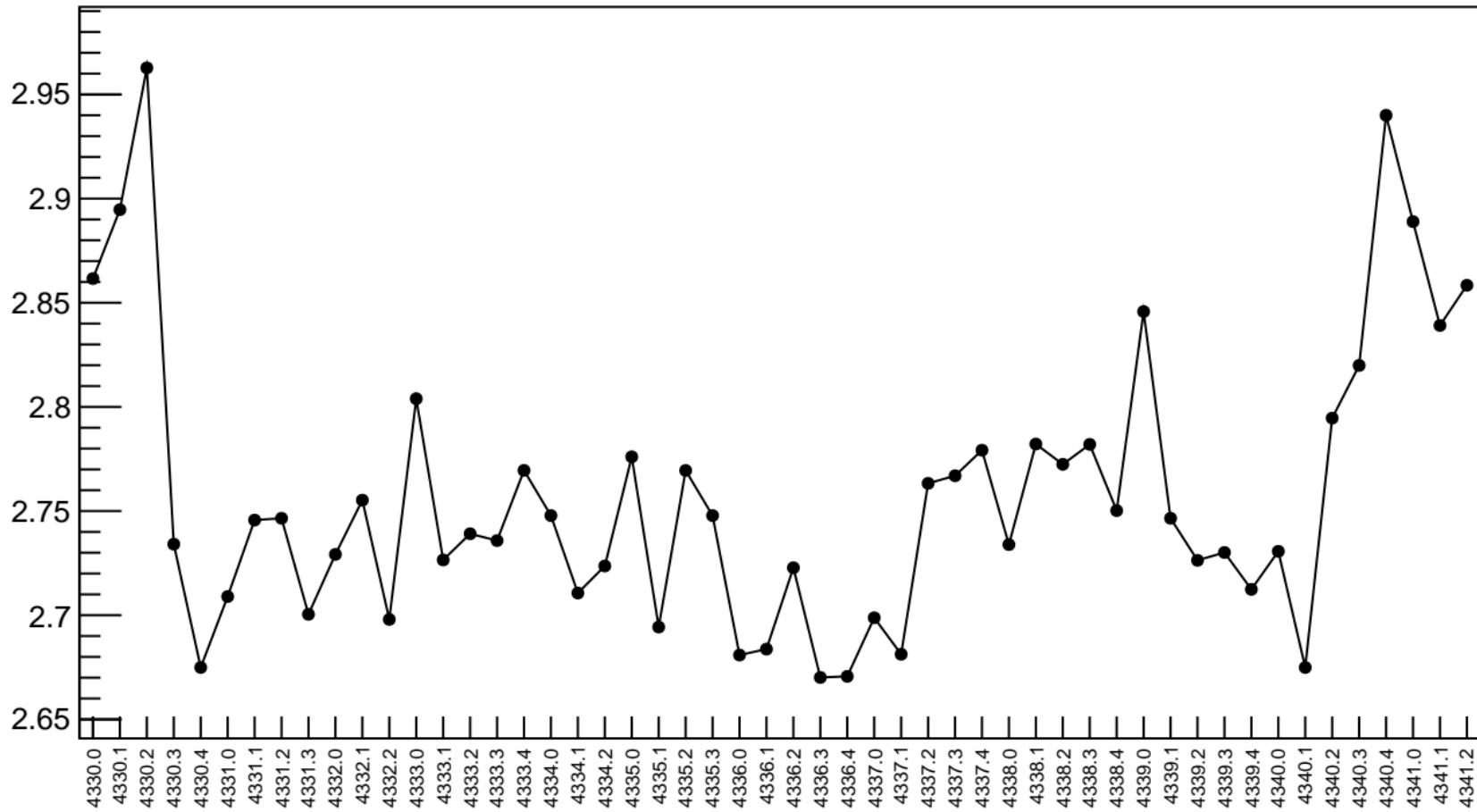


1D pull distribution

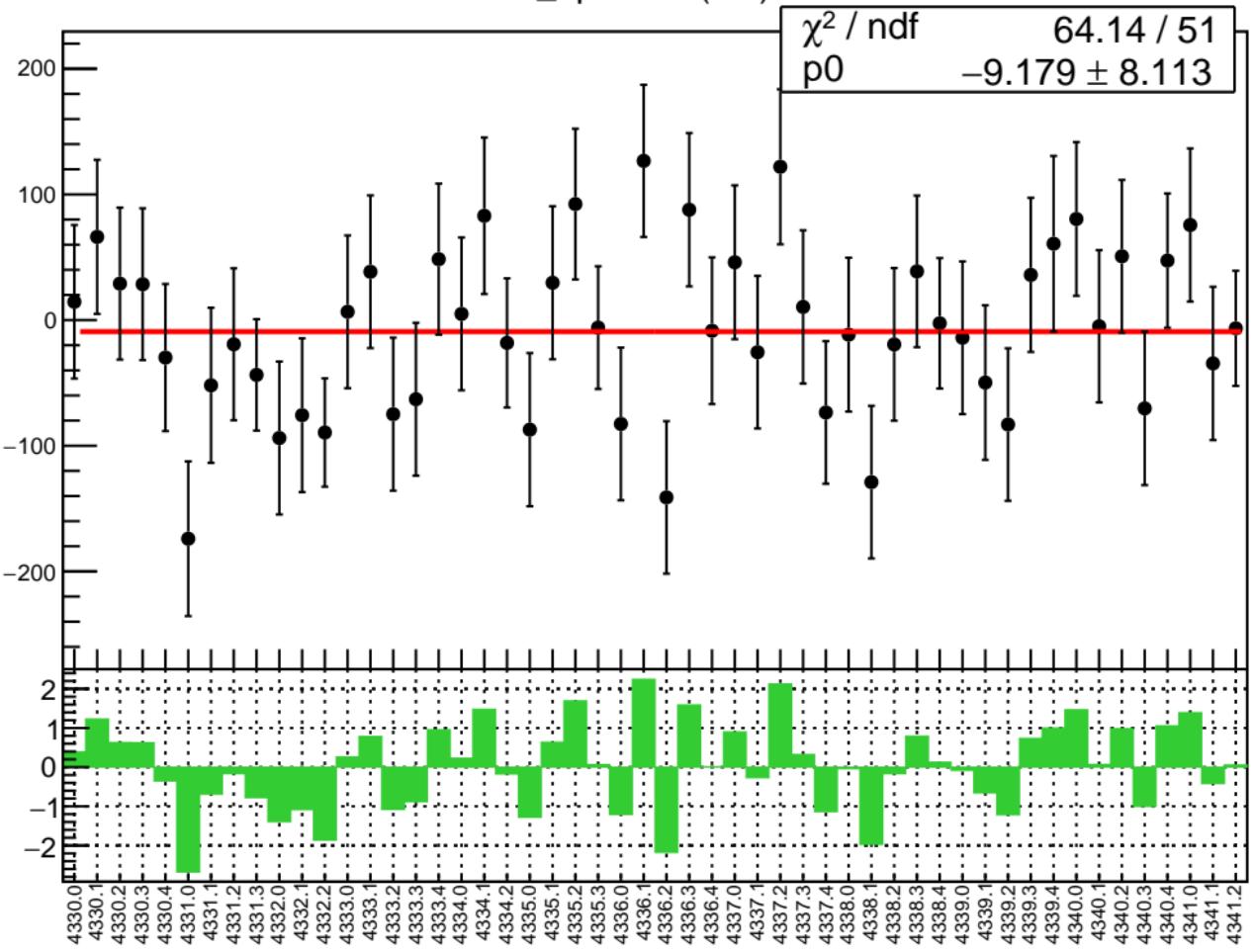


# diff\_bpm12Y RMS (um)

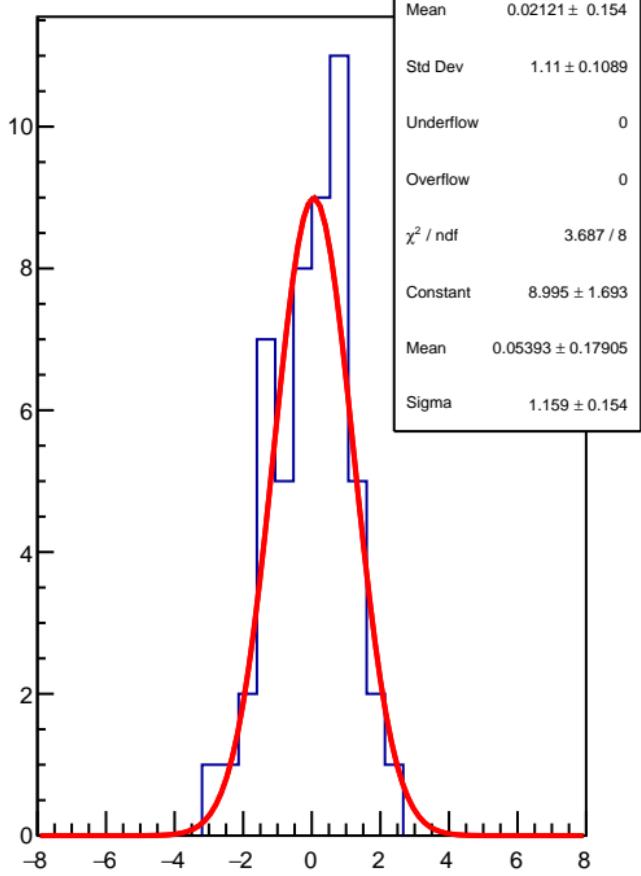
RMS (um)



diff\_bpm11X (nm)

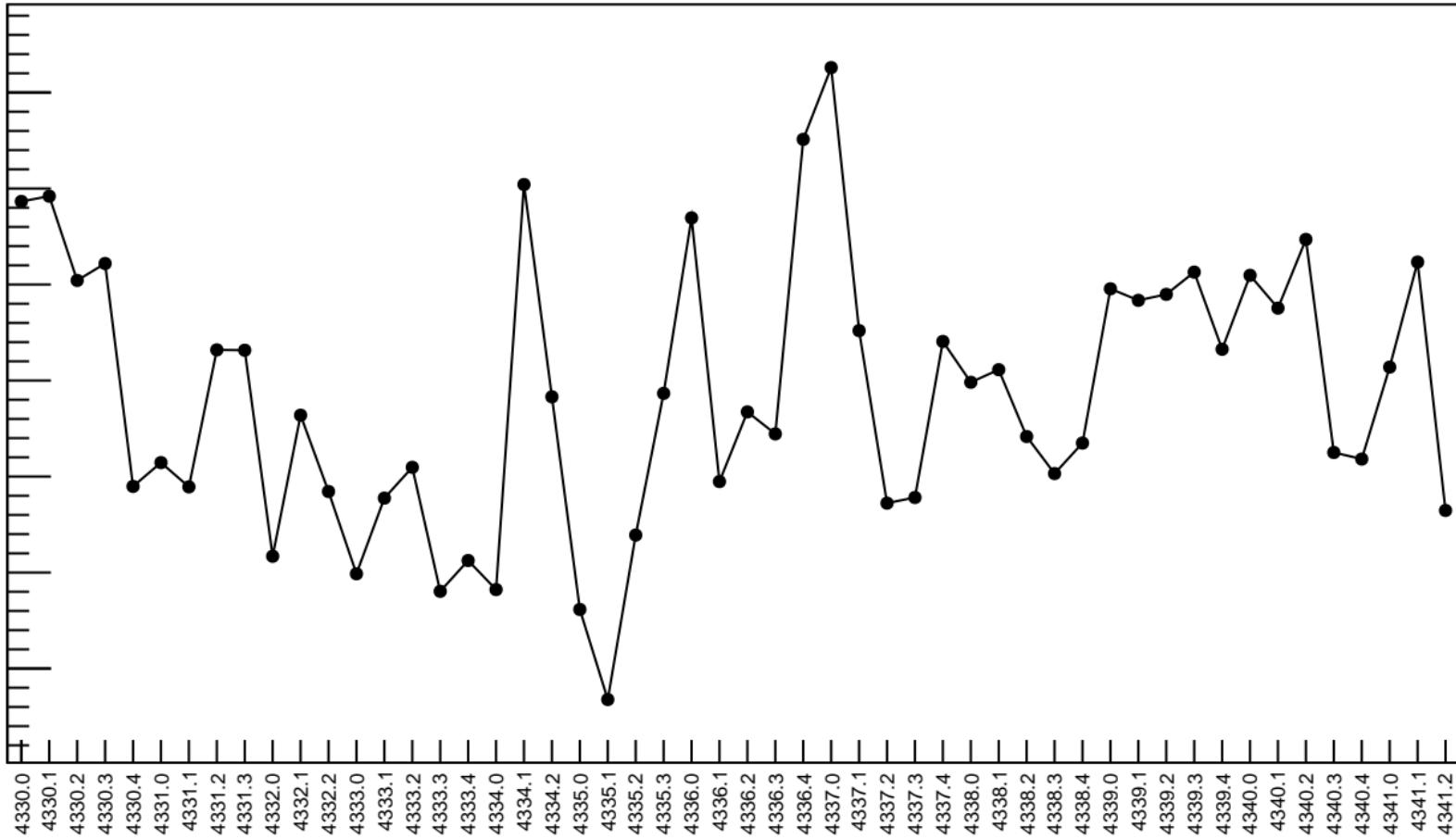


1D pull distribution



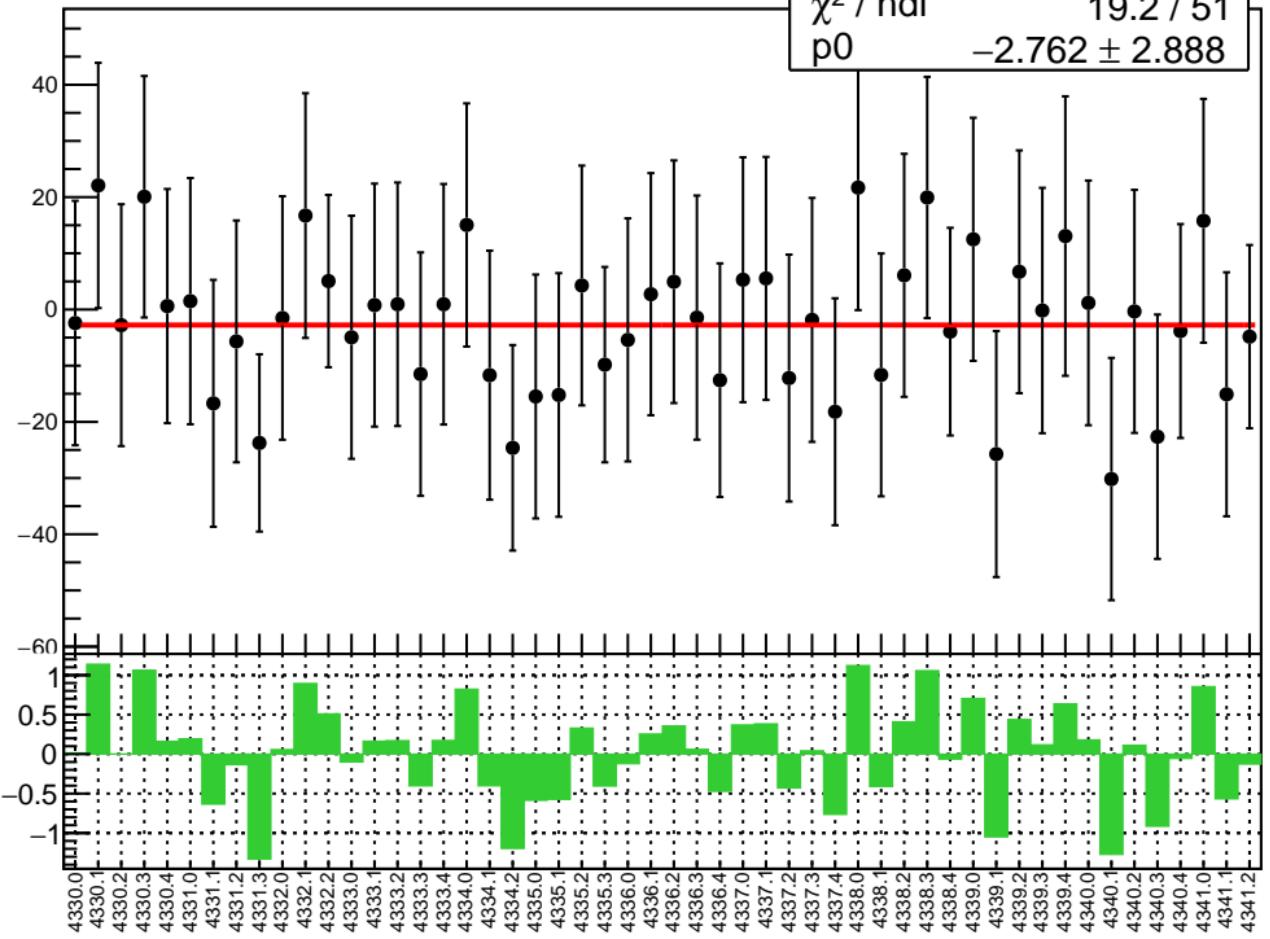
# diff\_bpm11X RMS (um)

RMS (um)

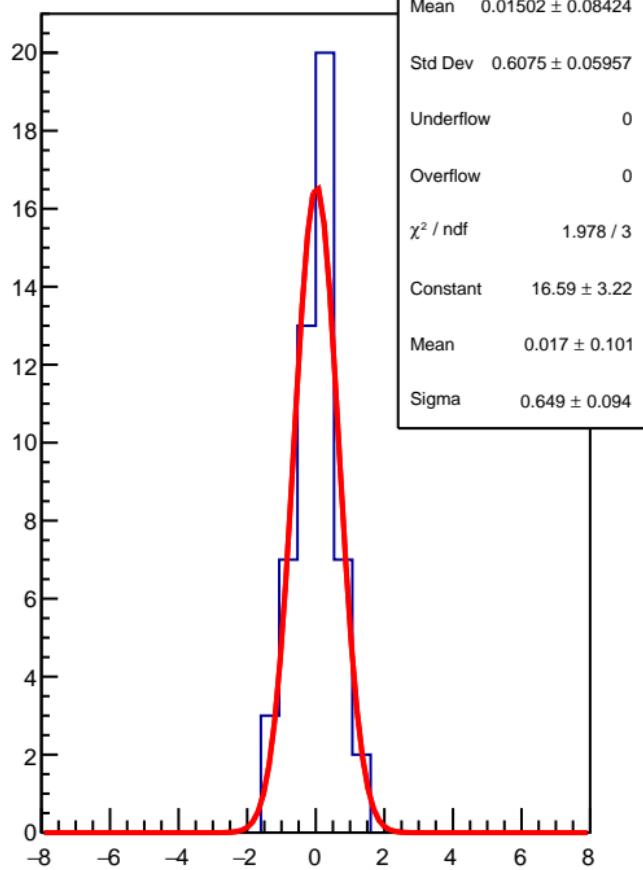


diff\_bpm11Y (nm)

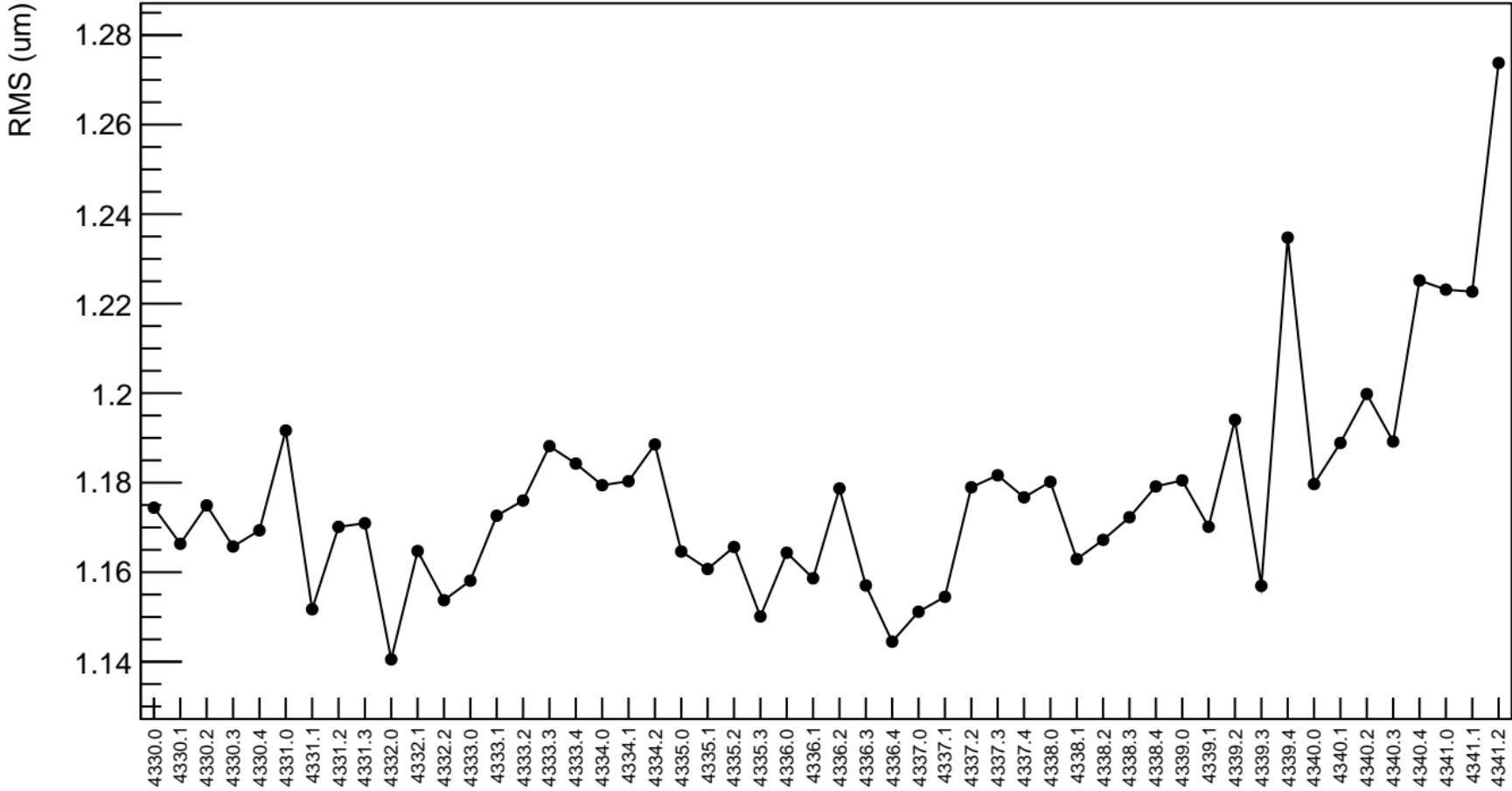
$\chi^2 / \text{ndf}$  19.2 / 51  
 $p_0$   $-2.762 \pm 2.888$



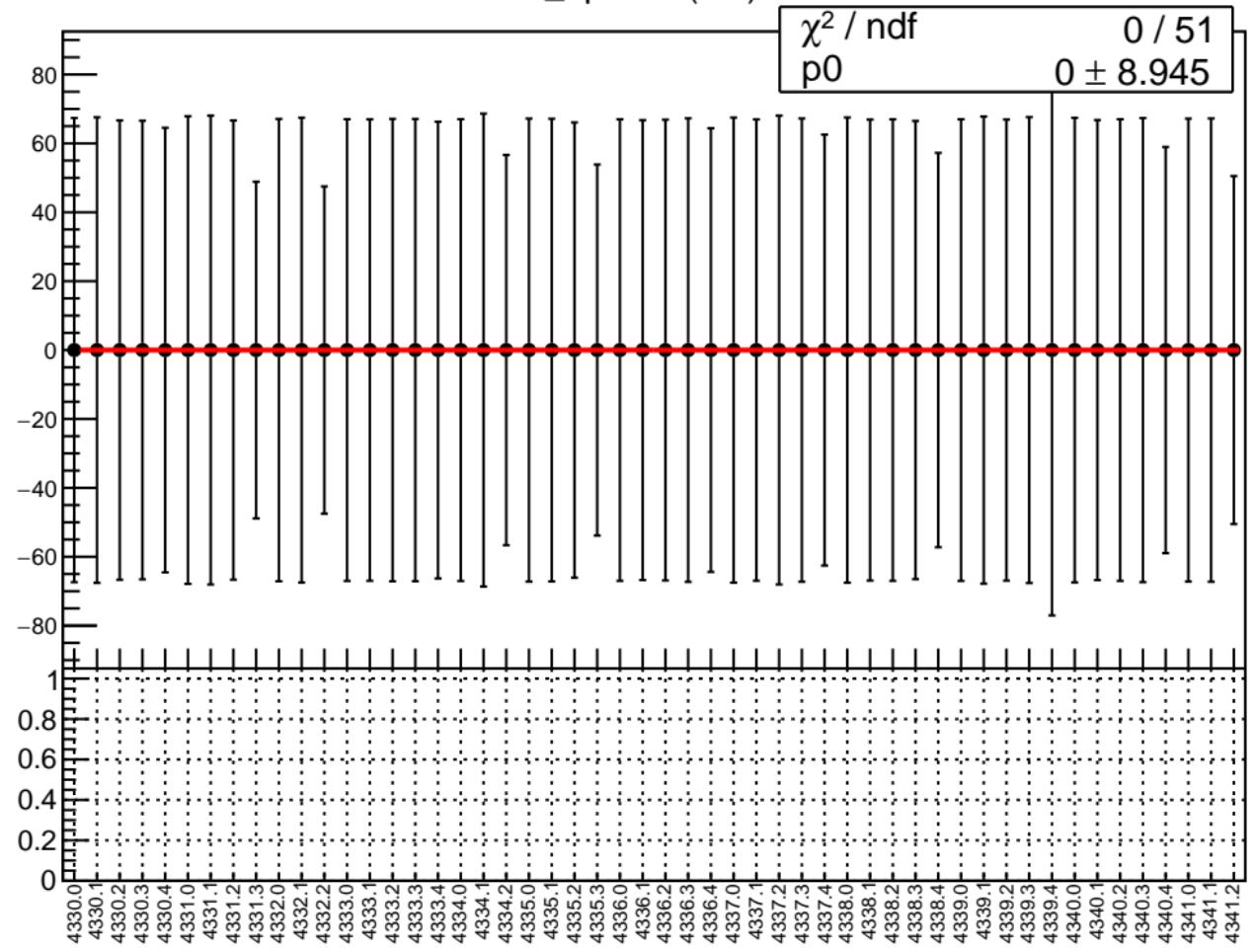
1D pull distribution



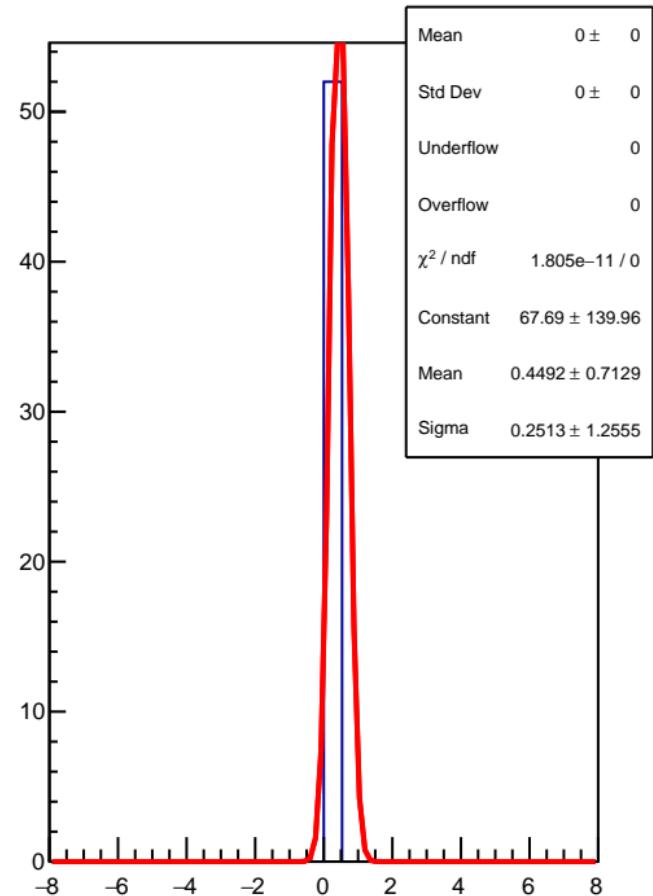
# diff\_bpm11Y RMS (um)



diff\_bpm8X (nm)

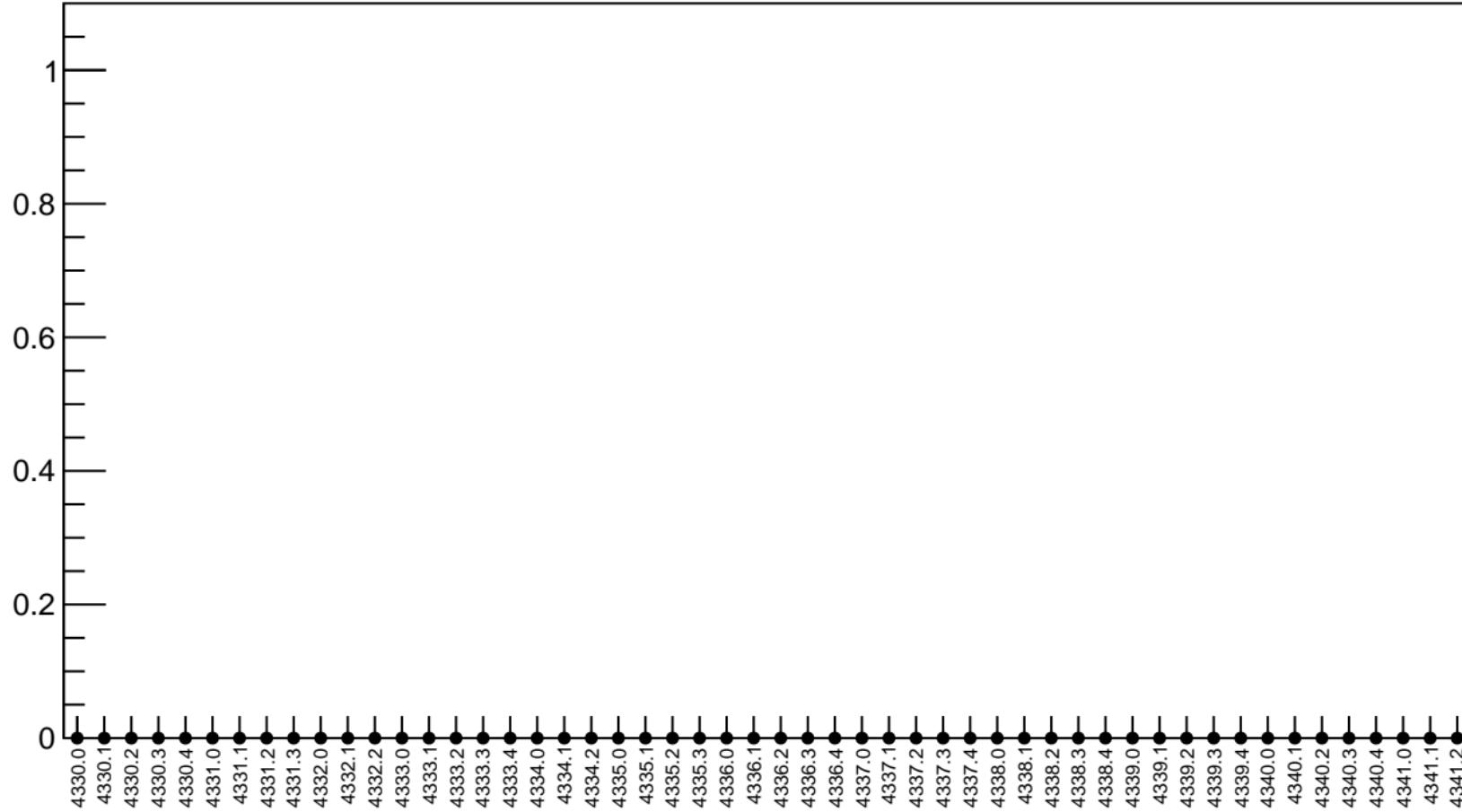


1D pull distribution

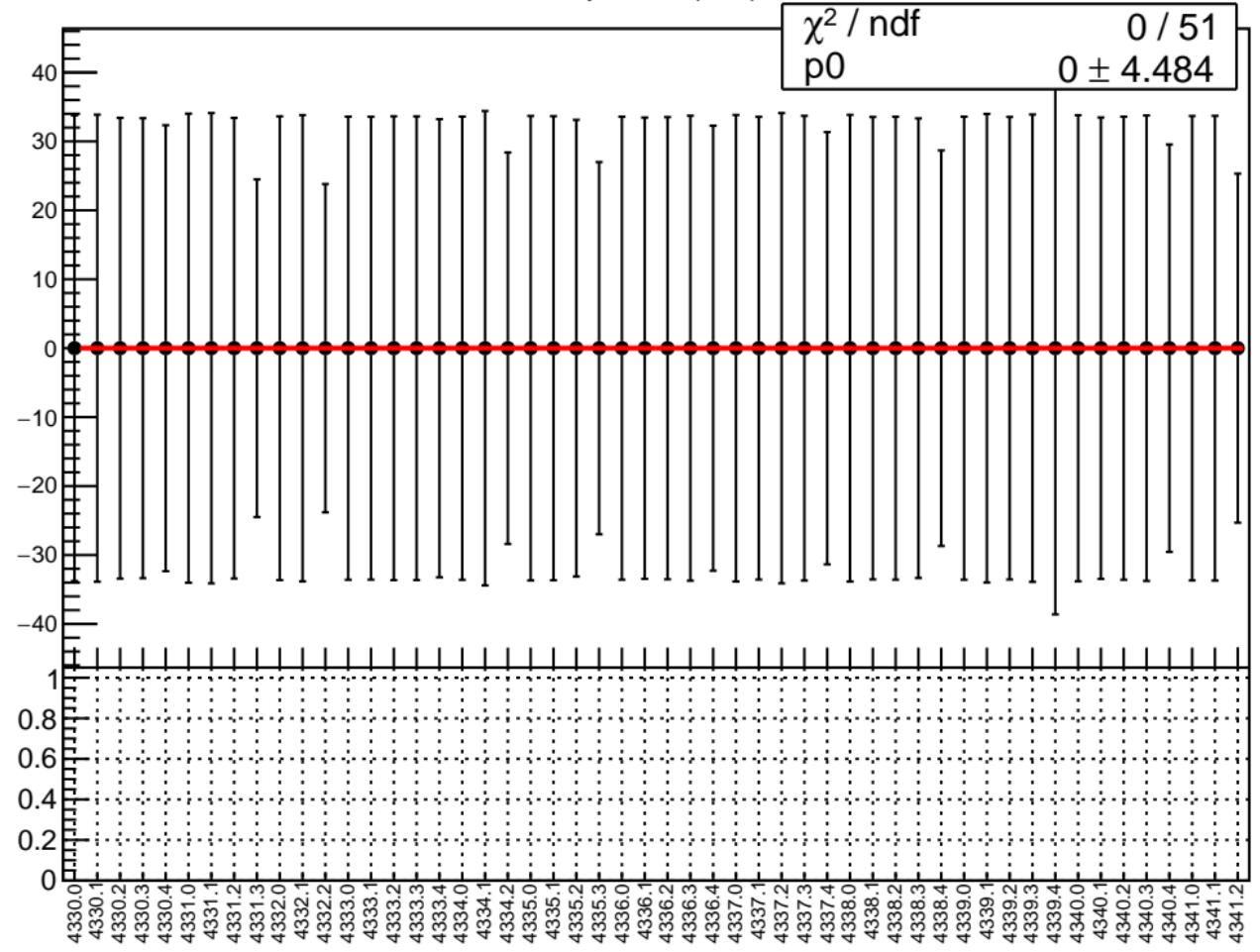


# diff\_bpm8X RMS (um)

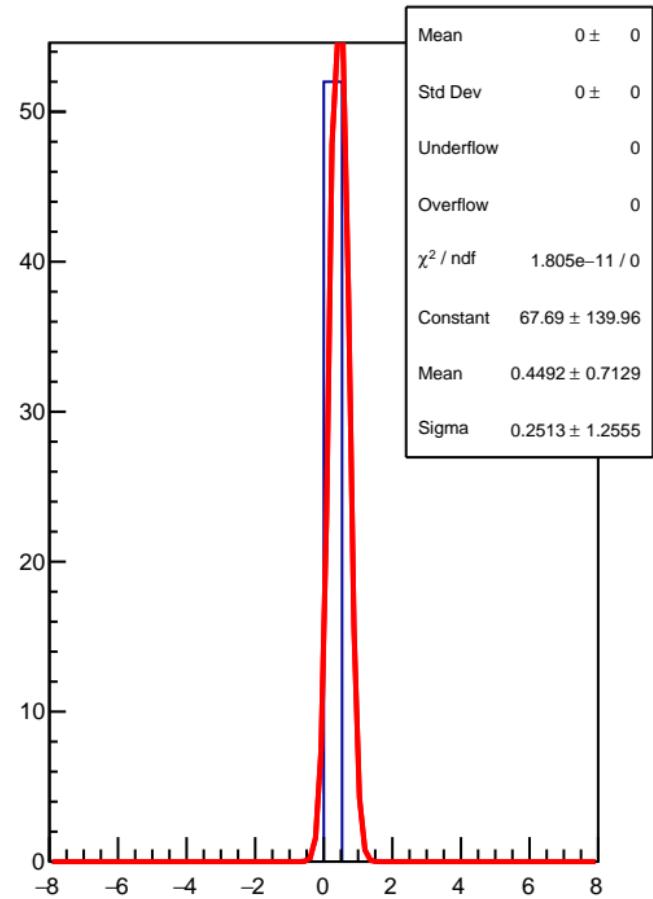
RMS (um)



diff\_bpm8Y (nm)

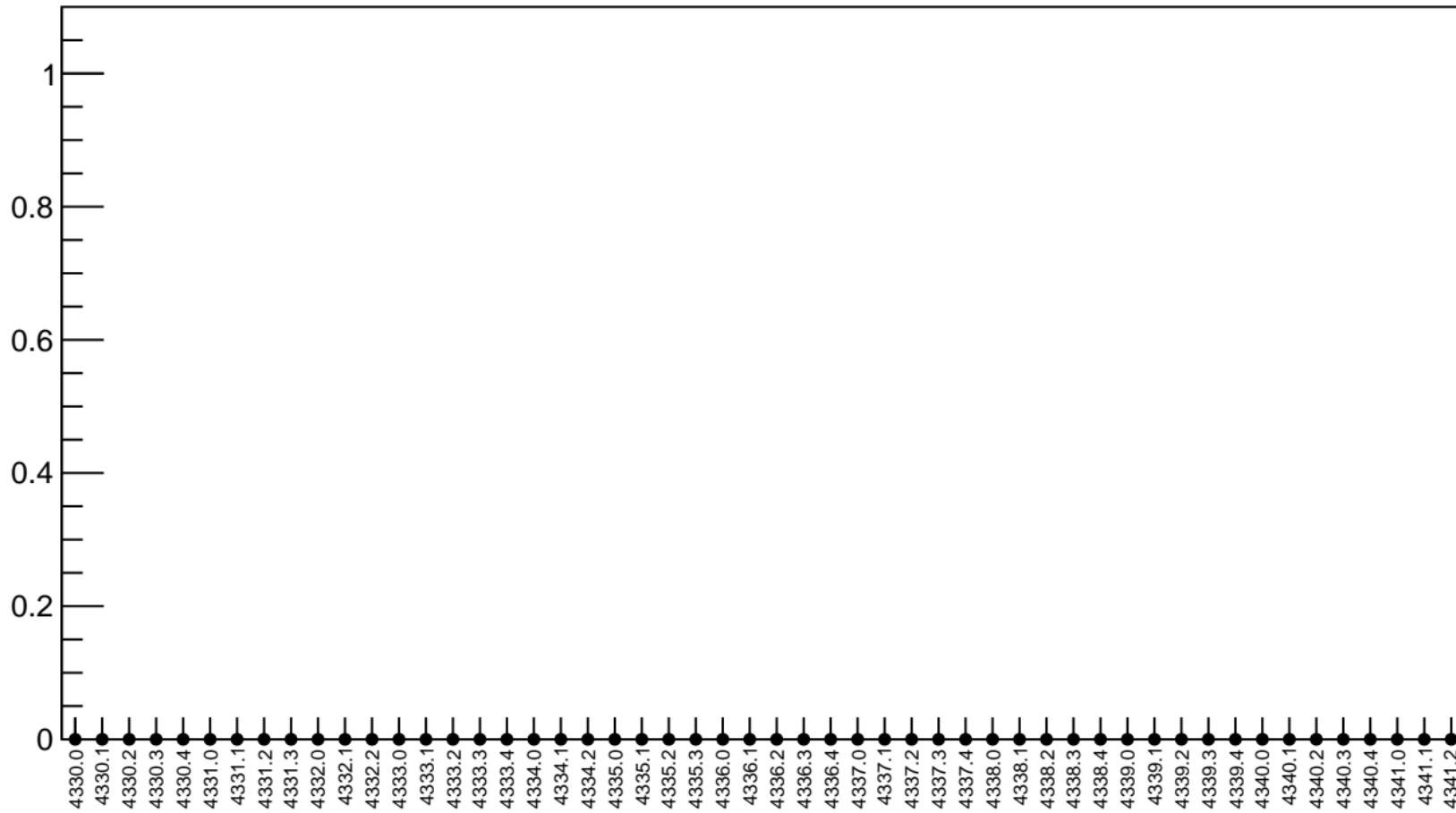


1D pull distribution

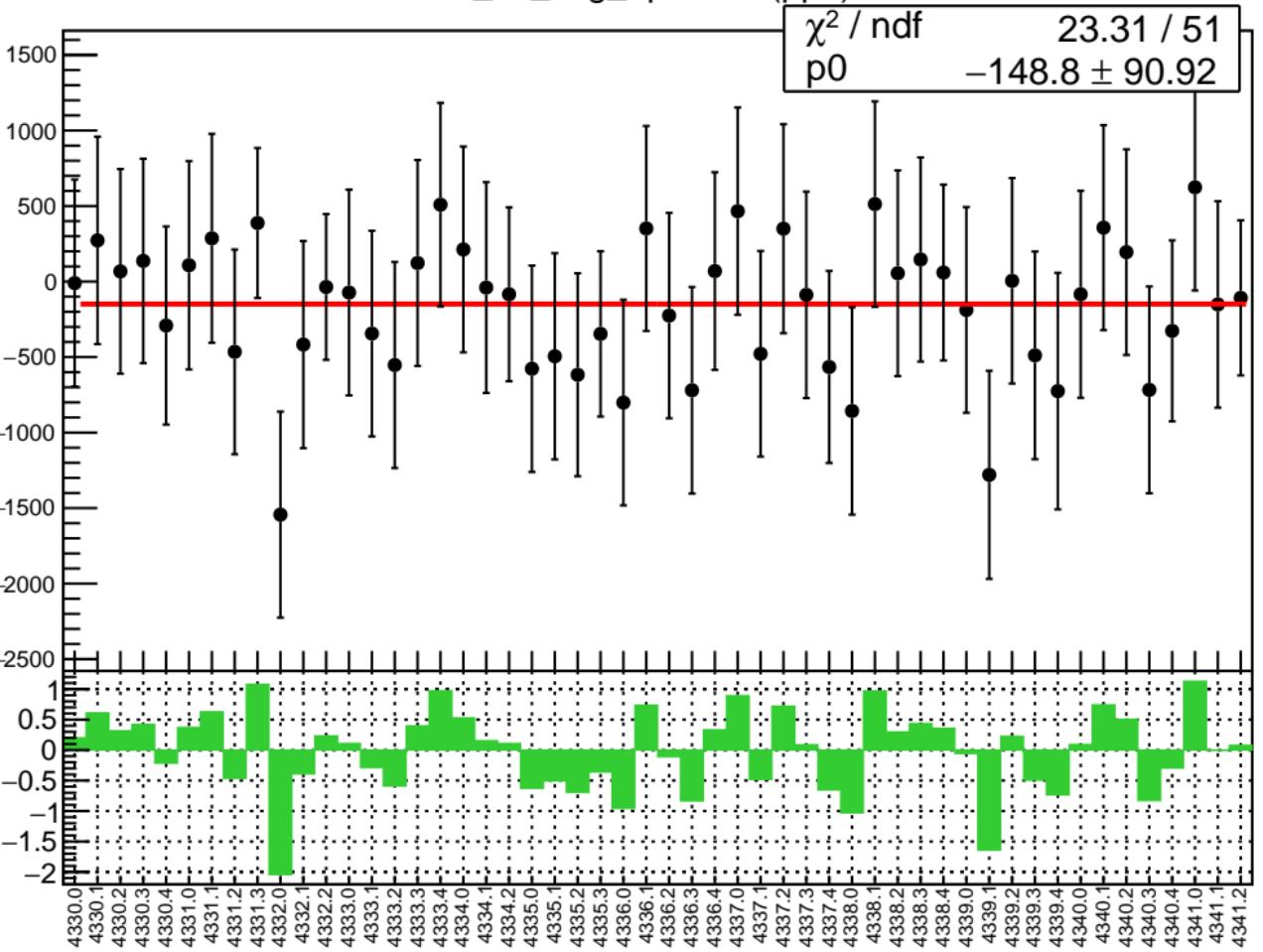


# diff\_bpm8Y RMS (um)

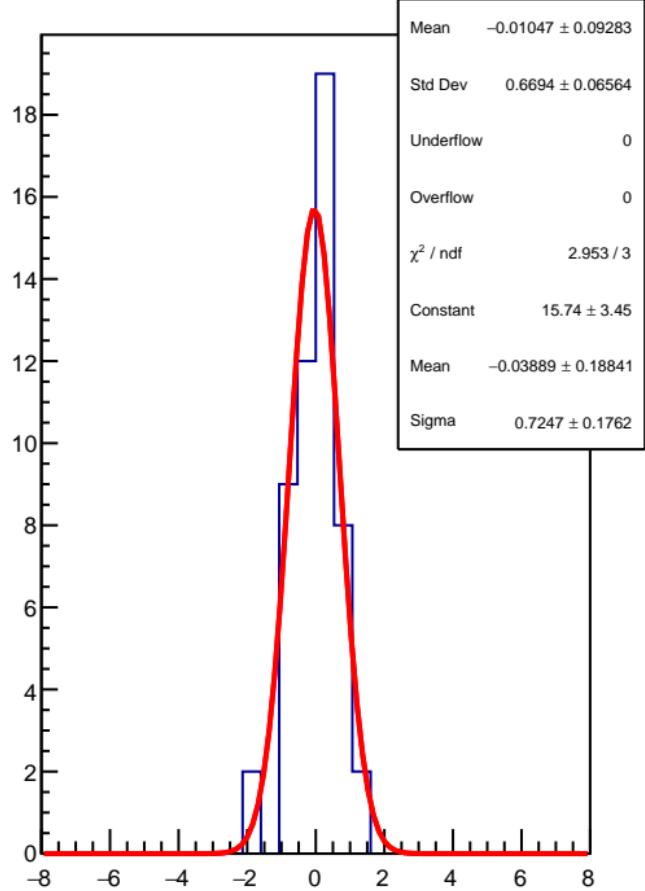
RMS (um)



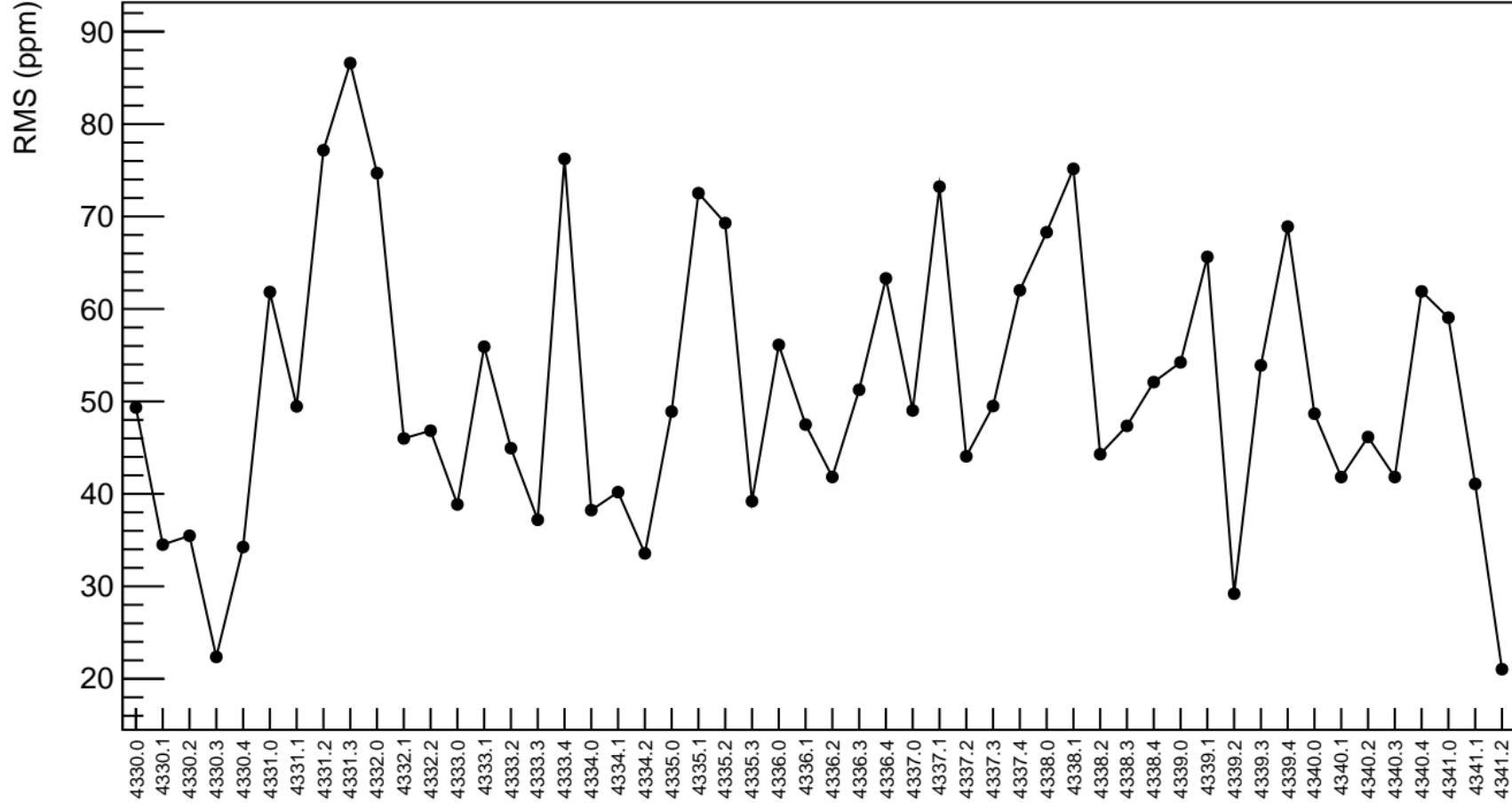
corr\_us\_avg\_bpm4eX (ppb)



1D pull distribution

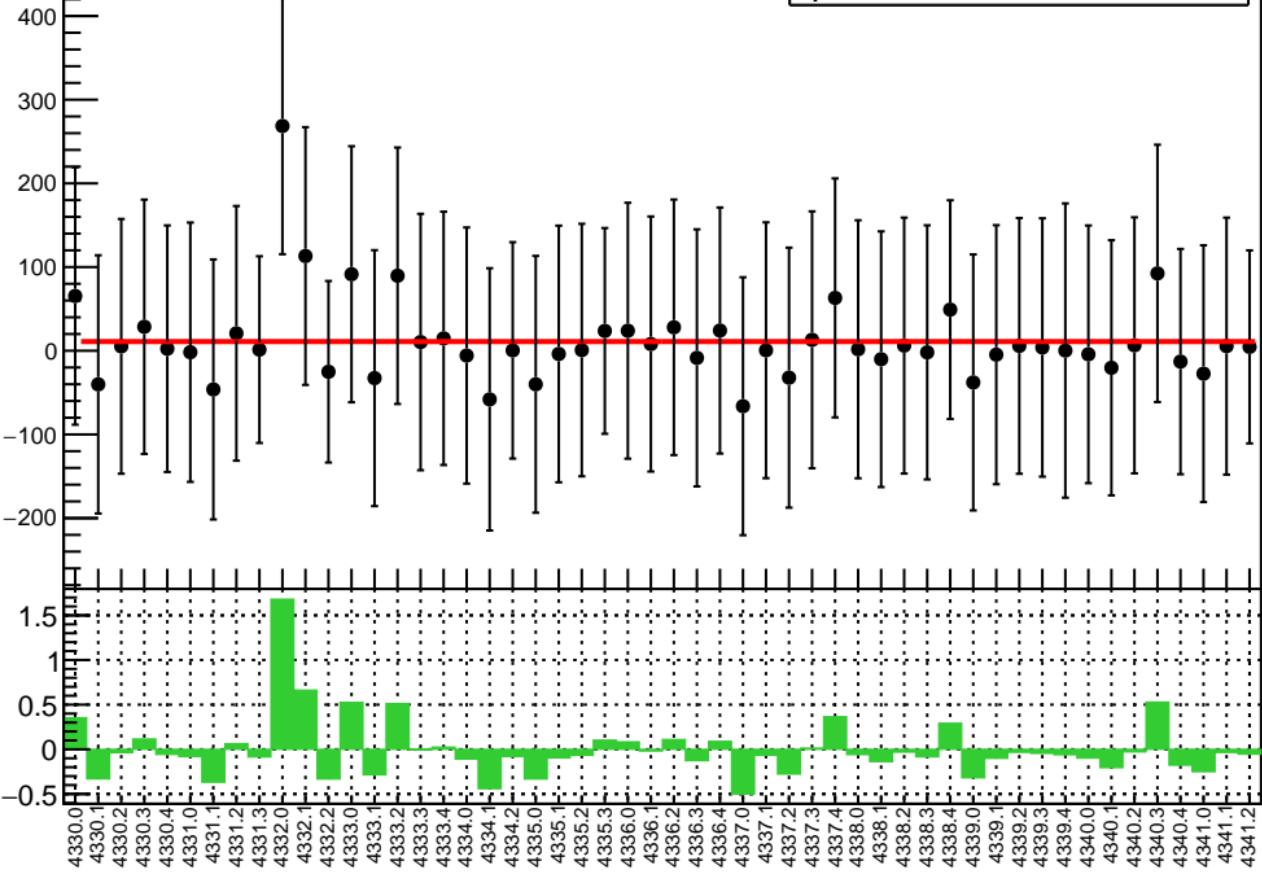


# corr\_us\_avg\_bpm4eX RMS (ppm)

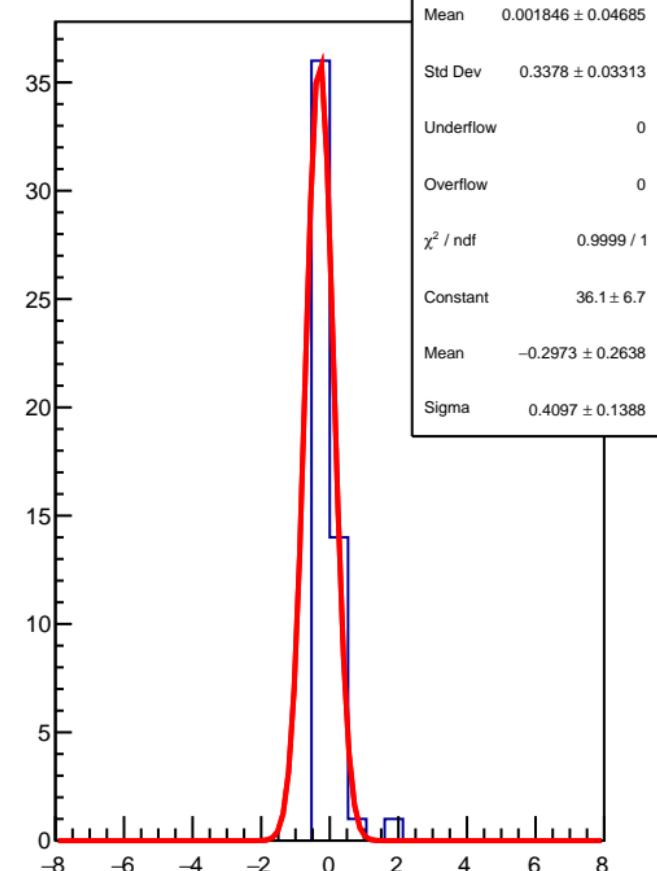


corr\_us\_avg\_bpm4eY (ppb)

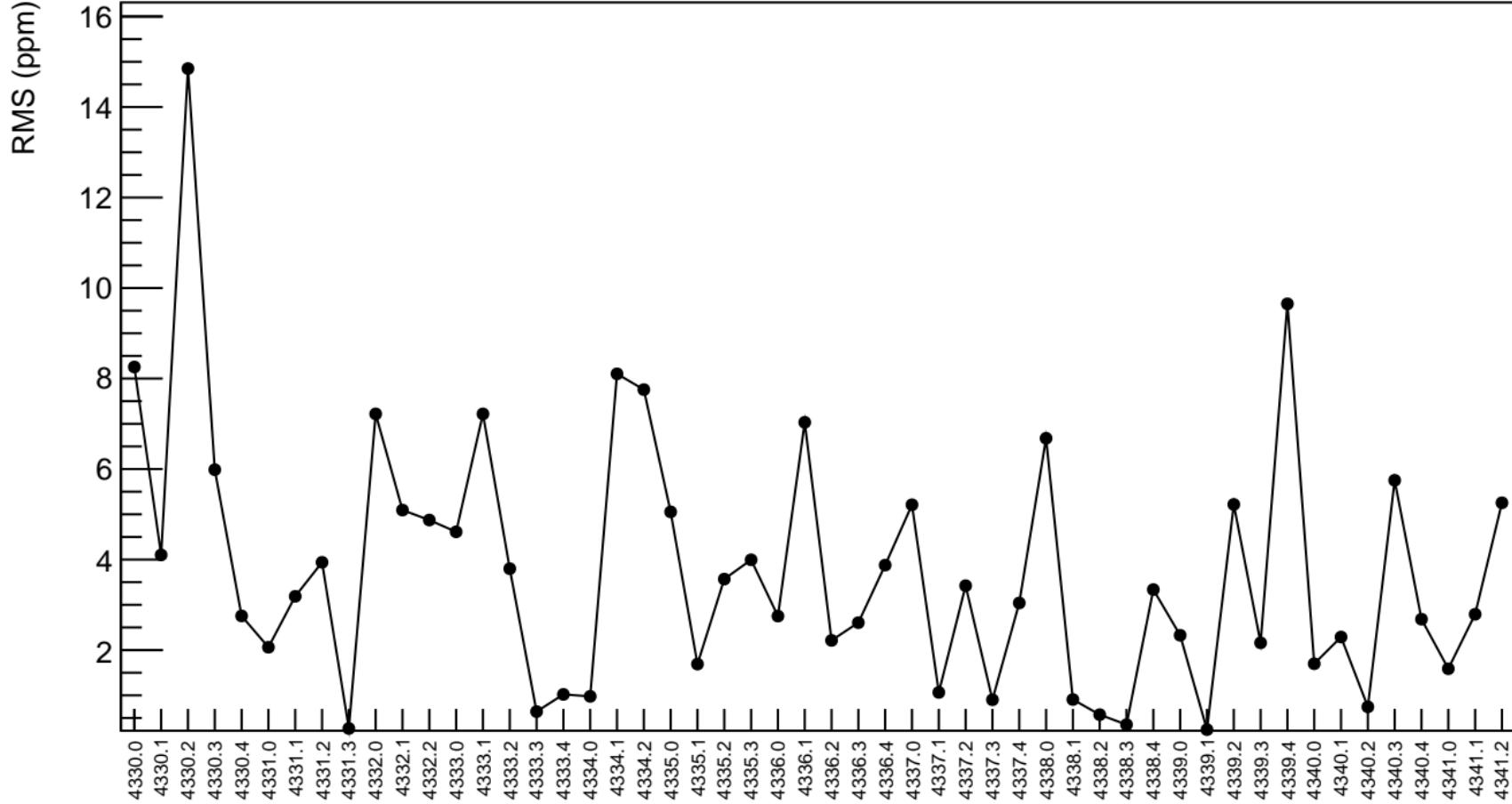
$\chi^2 / \text{ndf}$  5.934 / 51  
 $p_0$   $11 \pm 20.42$



1D pull distribution

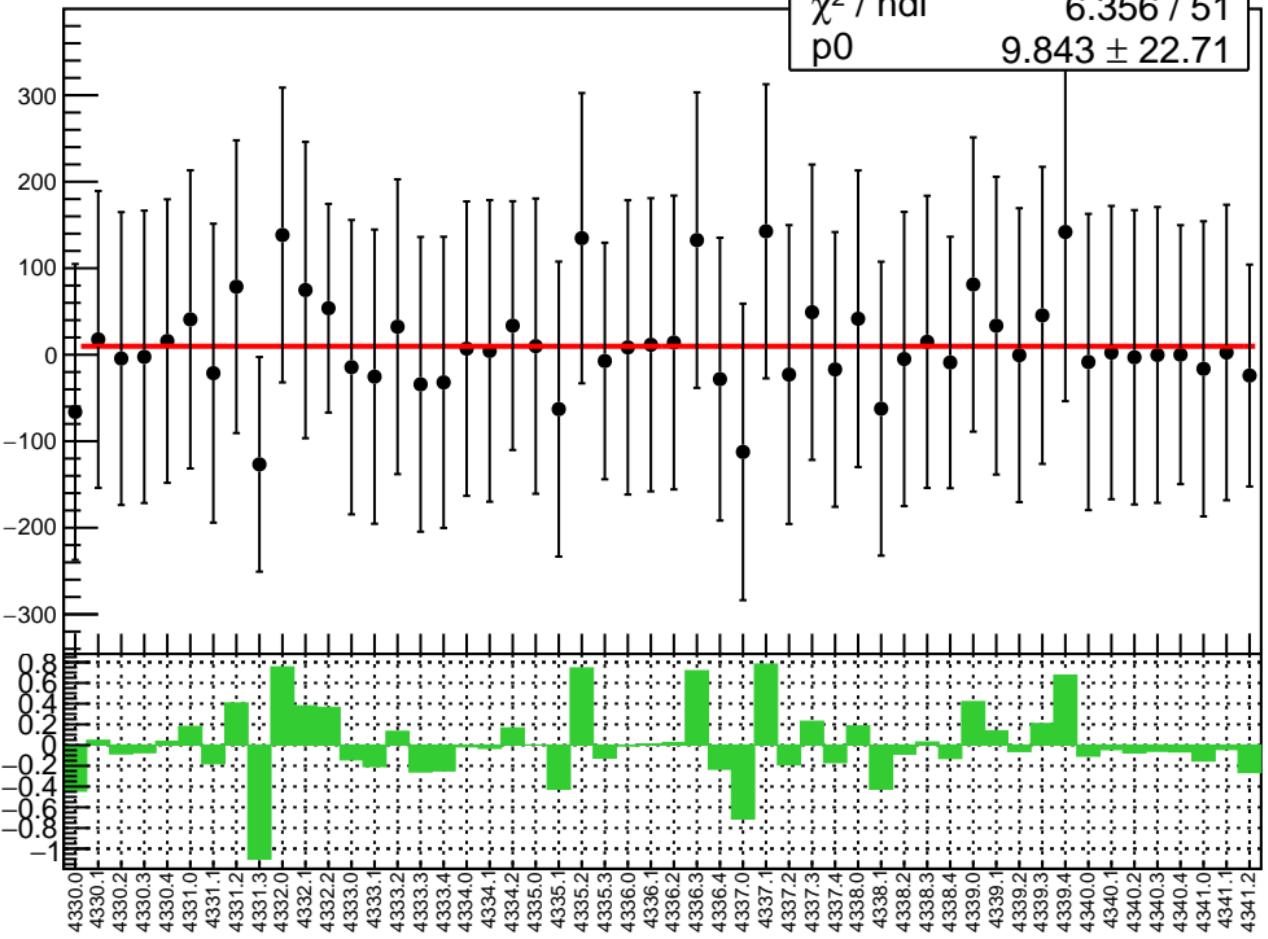


# corr\_us\_avg\_bpm4eY RMS (ppm)

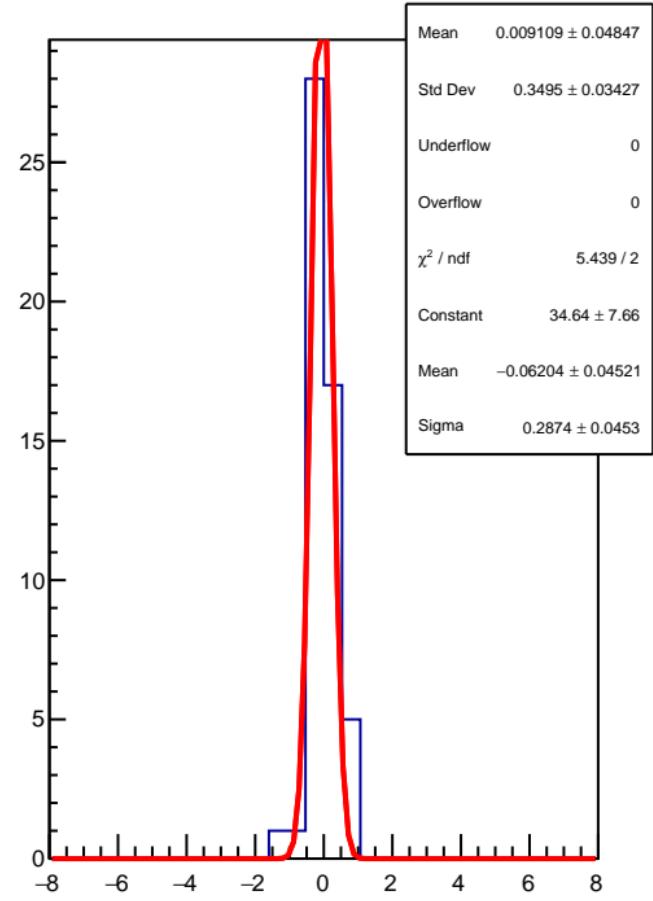


corr\_us\_avg\_bpm4aX (ppb)

$\chi^2 / \text{ndf}$  6.356 / 51  
p0  $9.843 \pm 22.71$

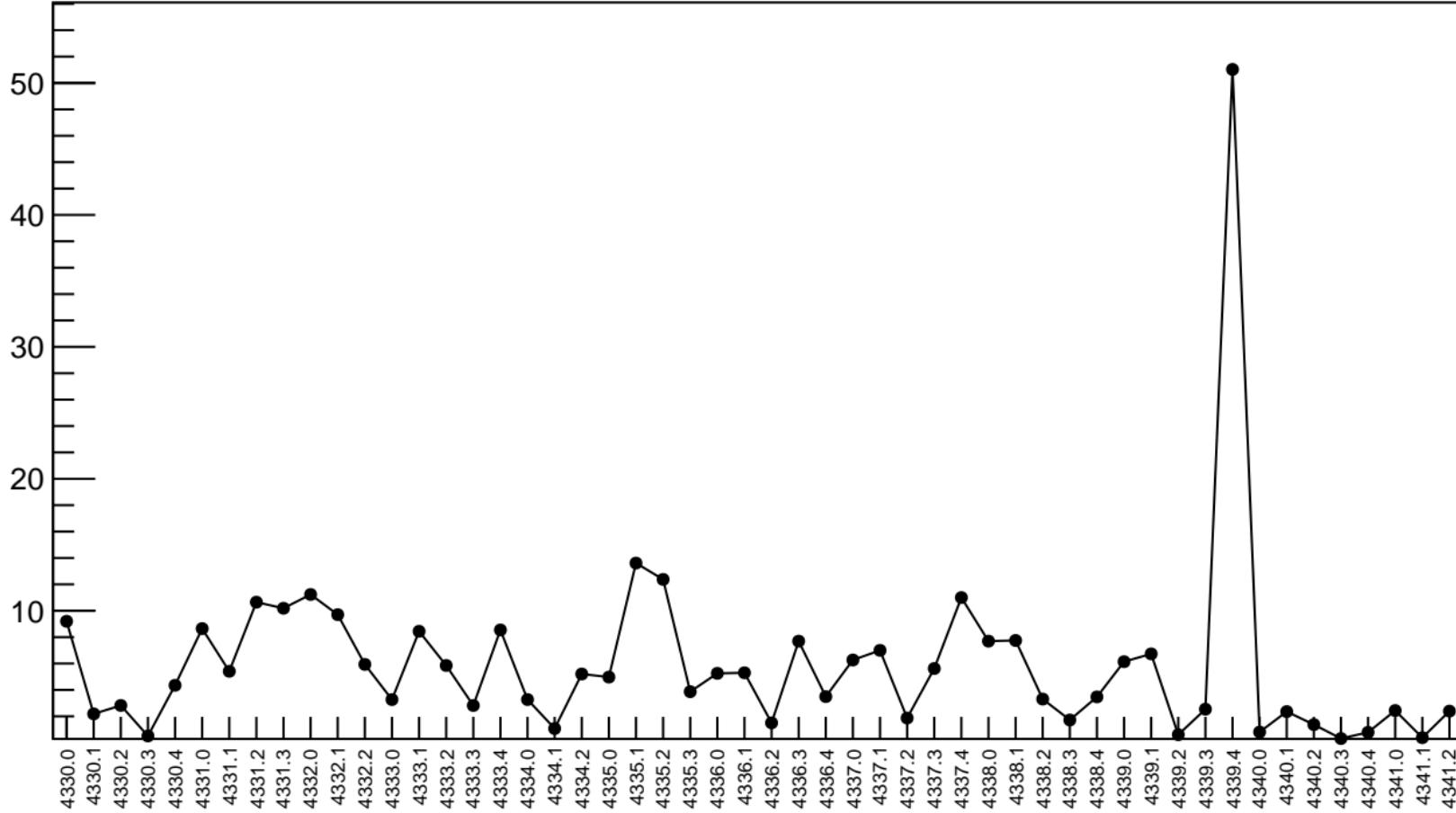


1D pull distribution



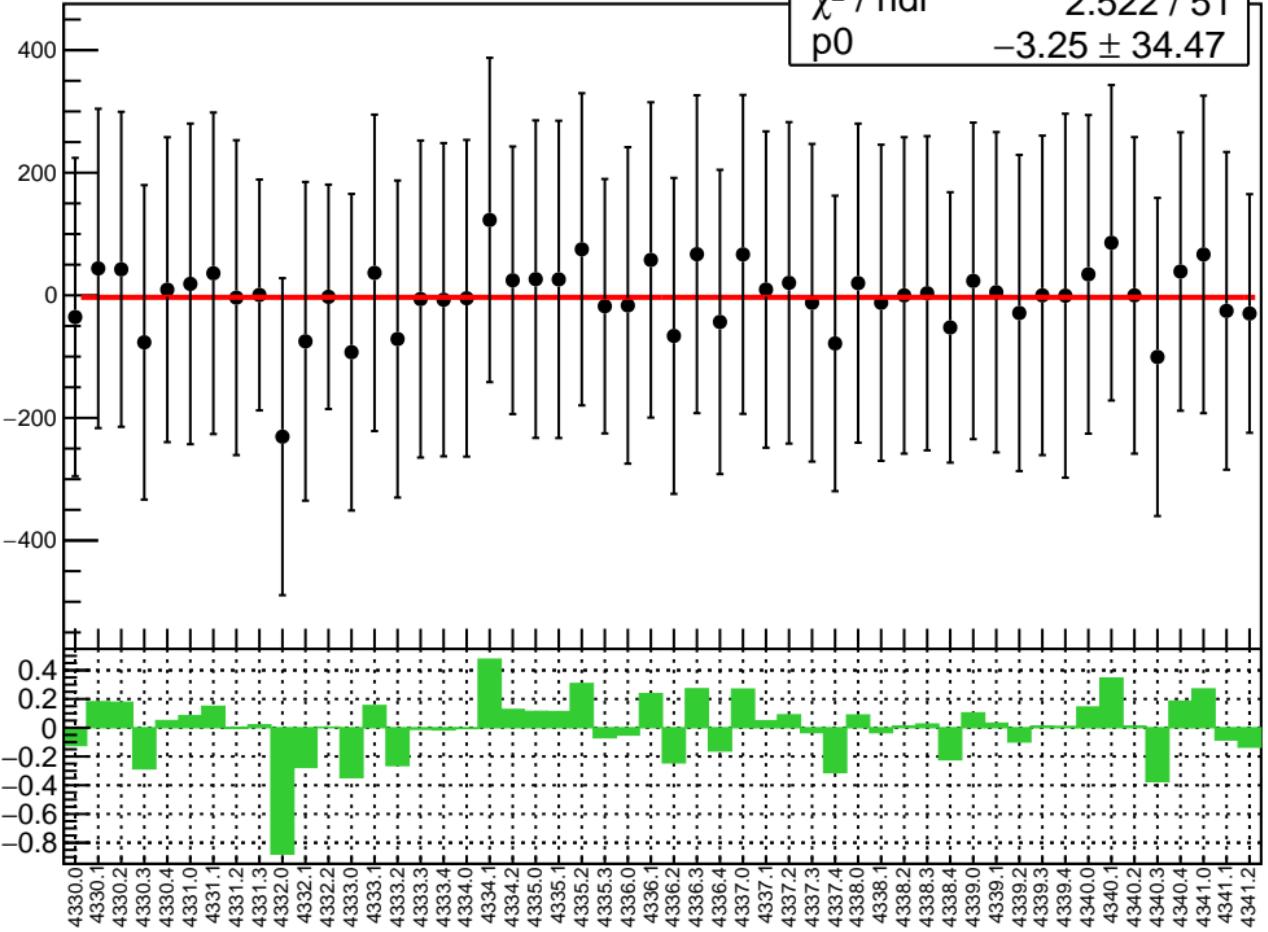
# corr\_us\_avg\_bpm4aX RMS (ppm)

RMS (ppm)

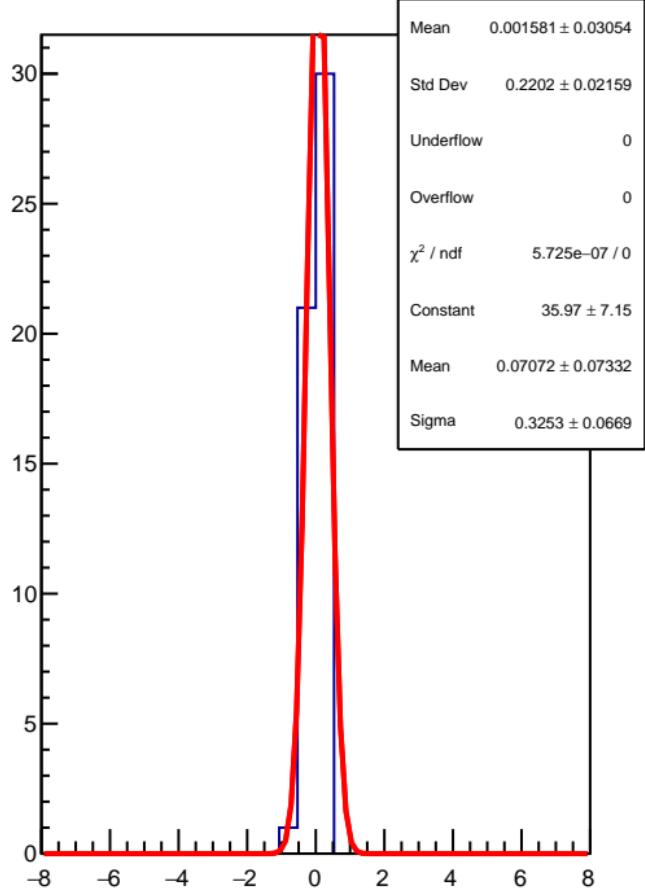


corr\_us\_avg\_bpm4aY (ppb)

$\chi^2 / \text{ndf}$  2.522 / 51  
 $p_0$   $-3.25 \pm 34.47$

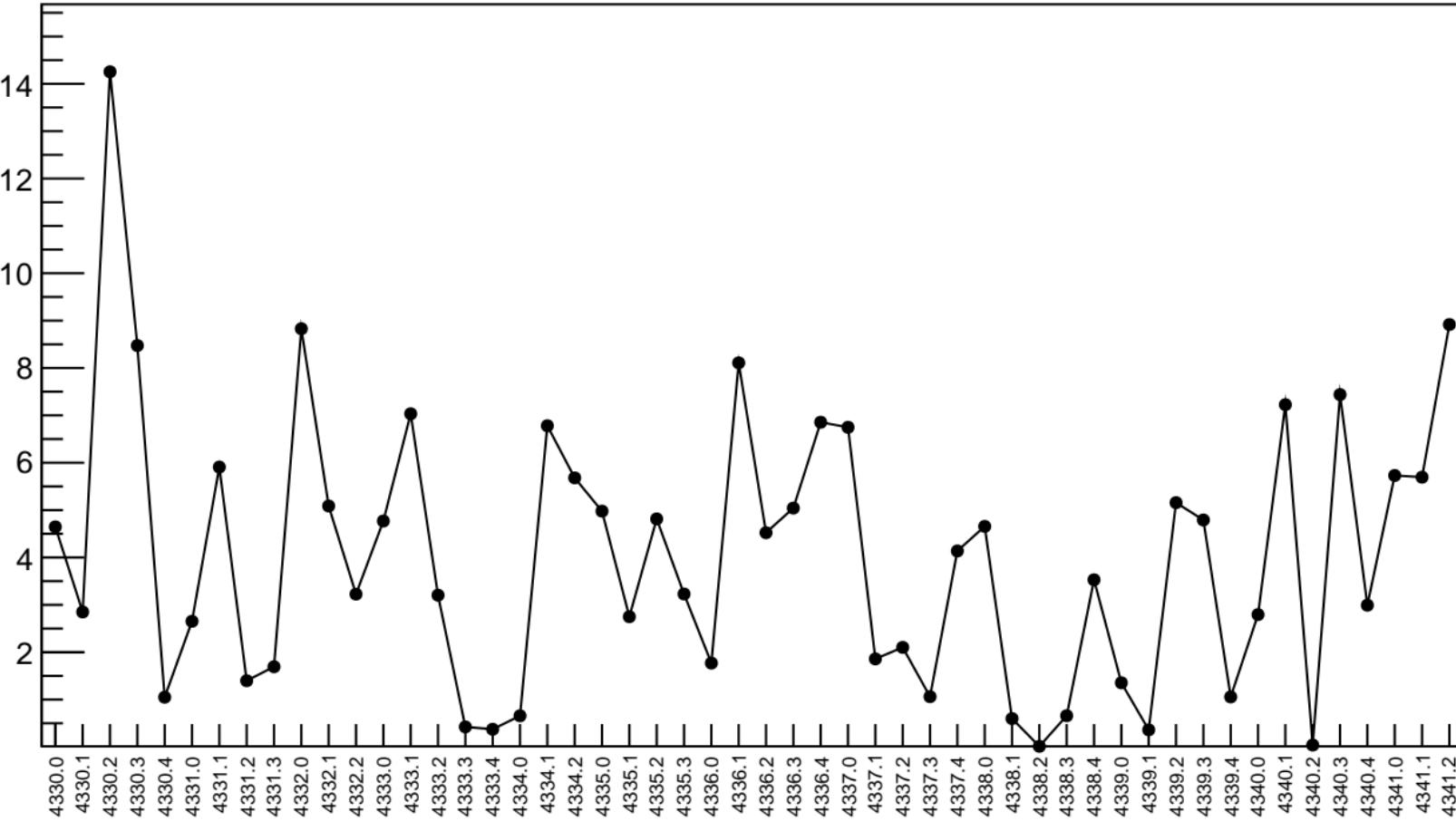


1D pull distribution

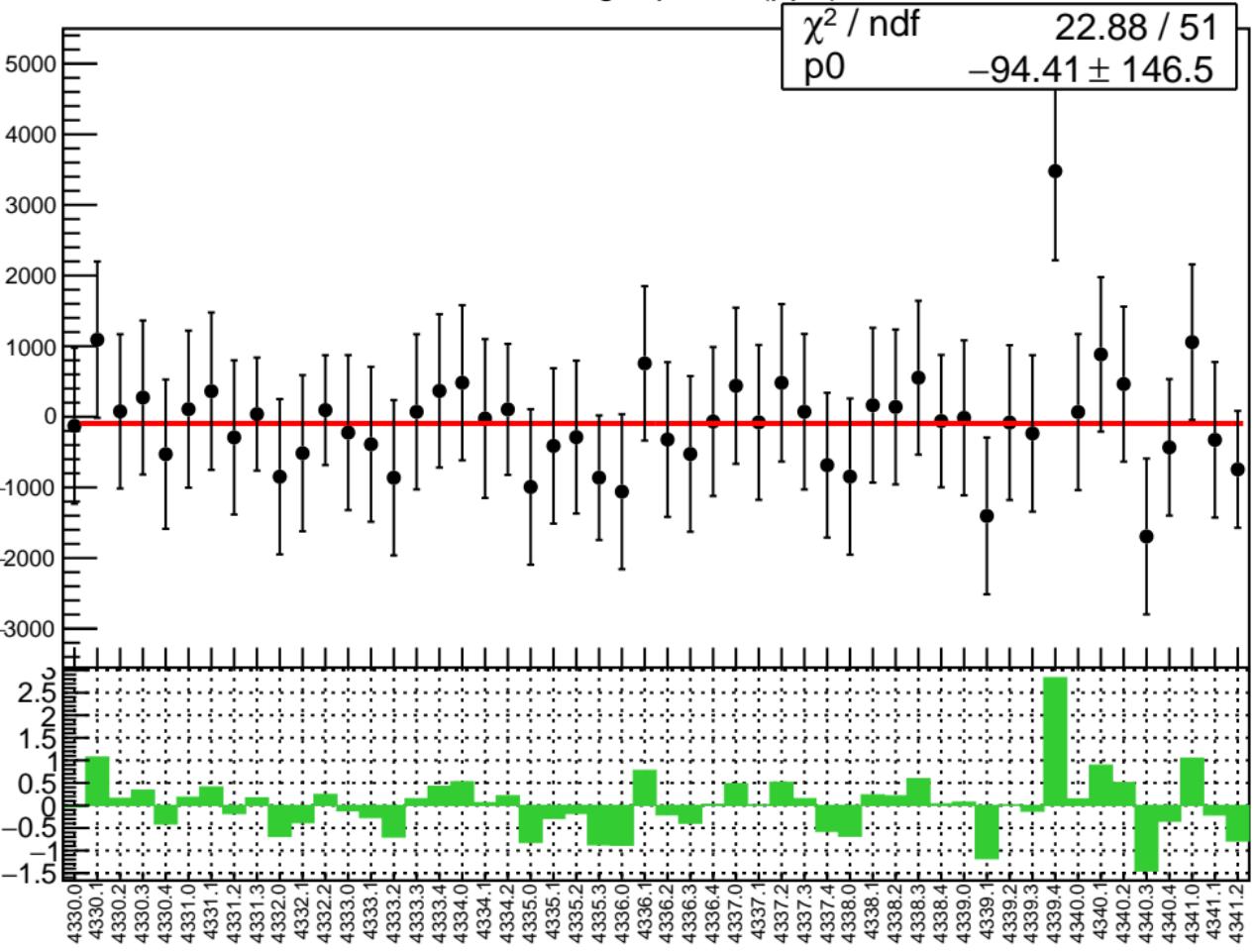


# corr\_us\_avg\_bpm4aY RMS (ppm)

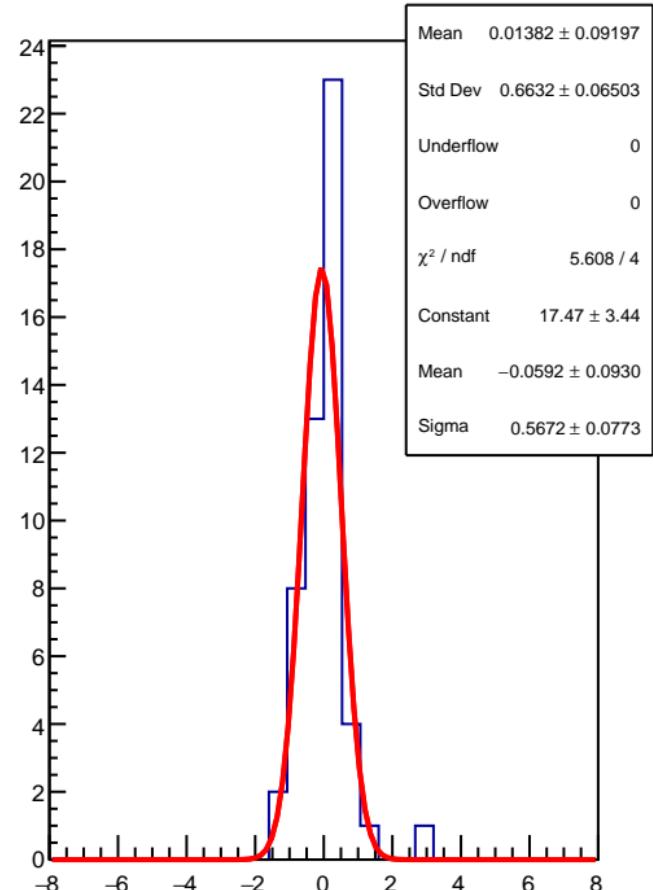
RMS (ppm)



corr\_us\_avg\_bpm1X (ppb)

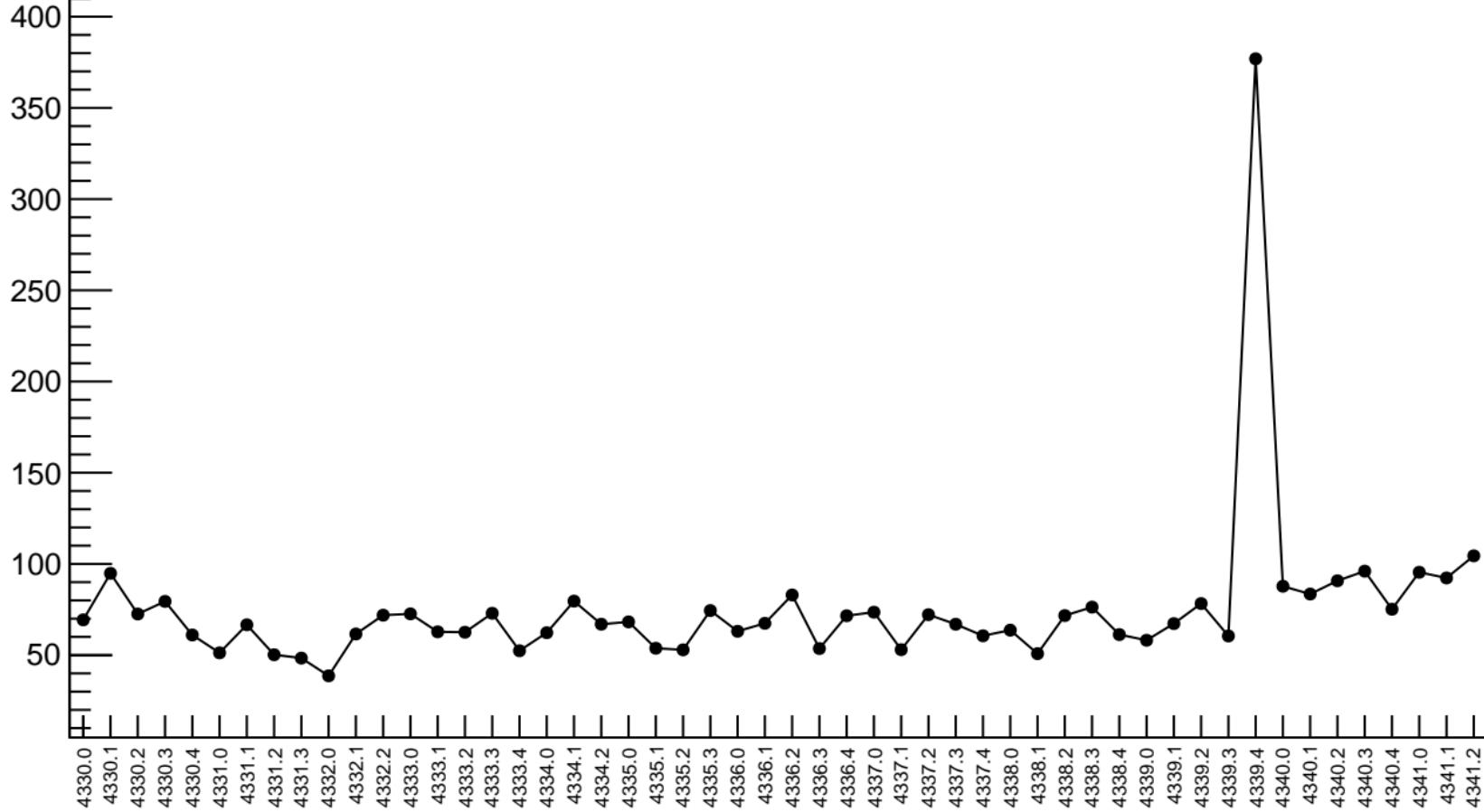


1D pull distribution

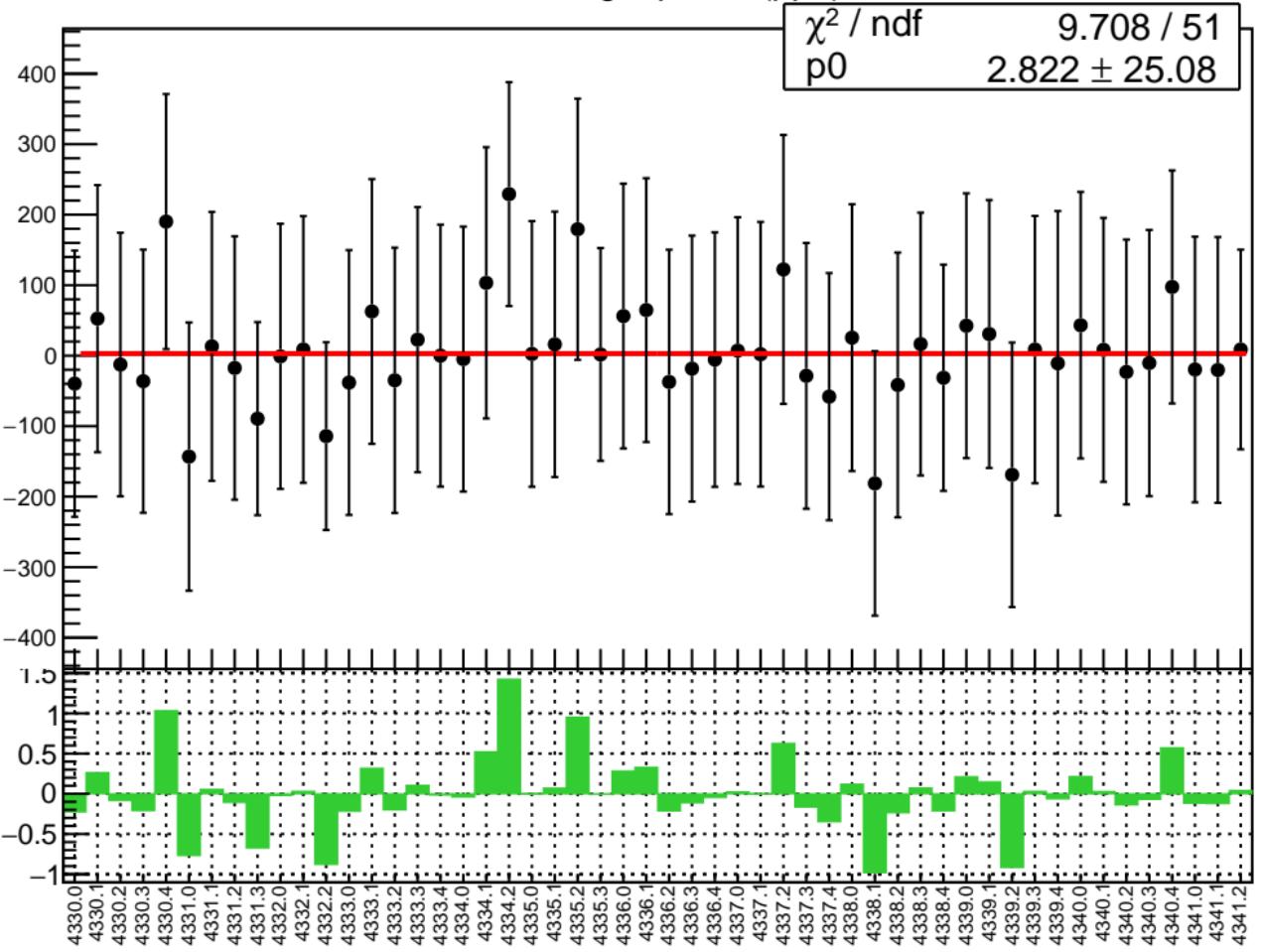


# corr\_us\_avg\_bpm1X RMS (ppm)

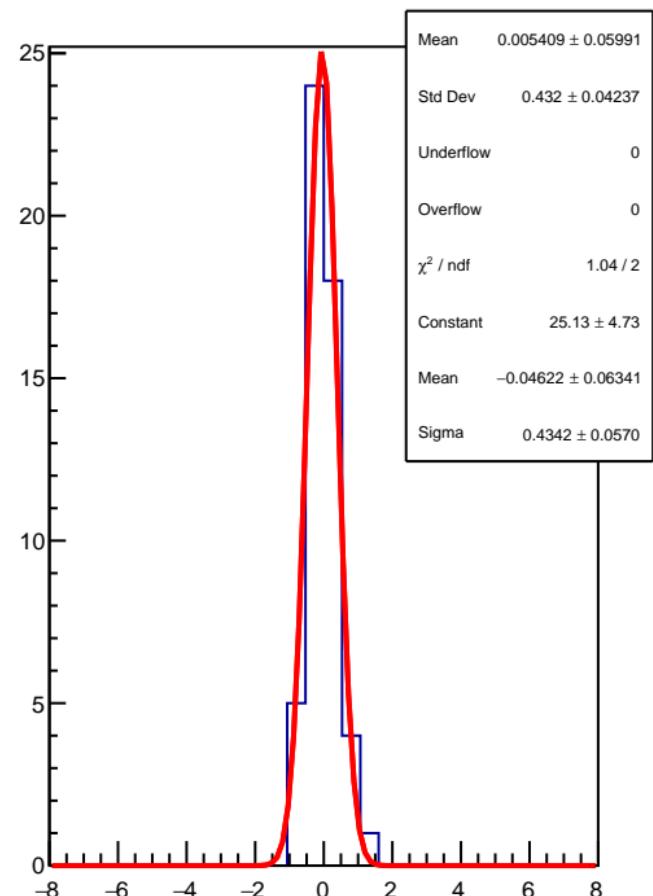
RMS (ppm)



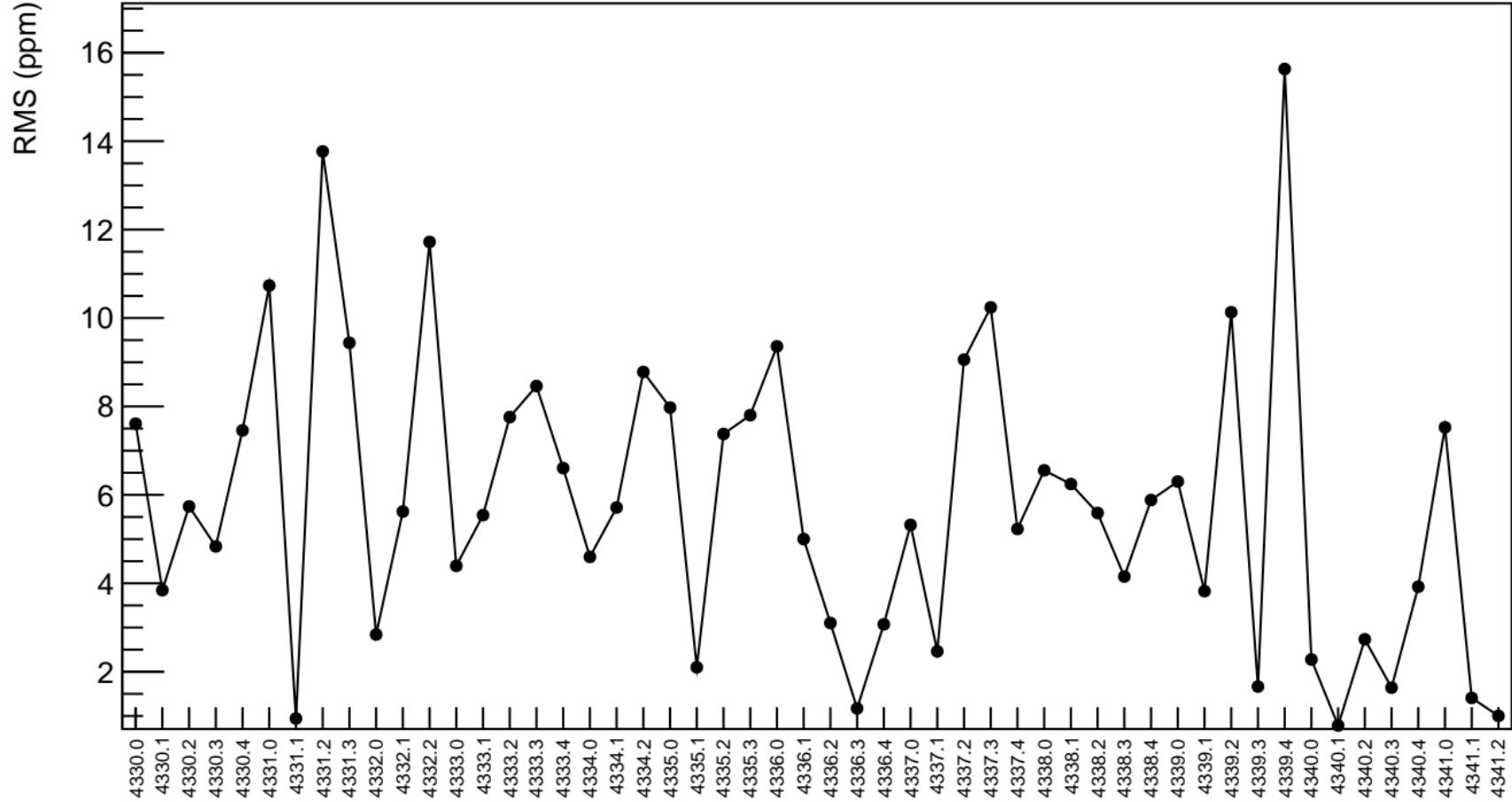
corr\_us\_avg\_bpm1Y (ppb)



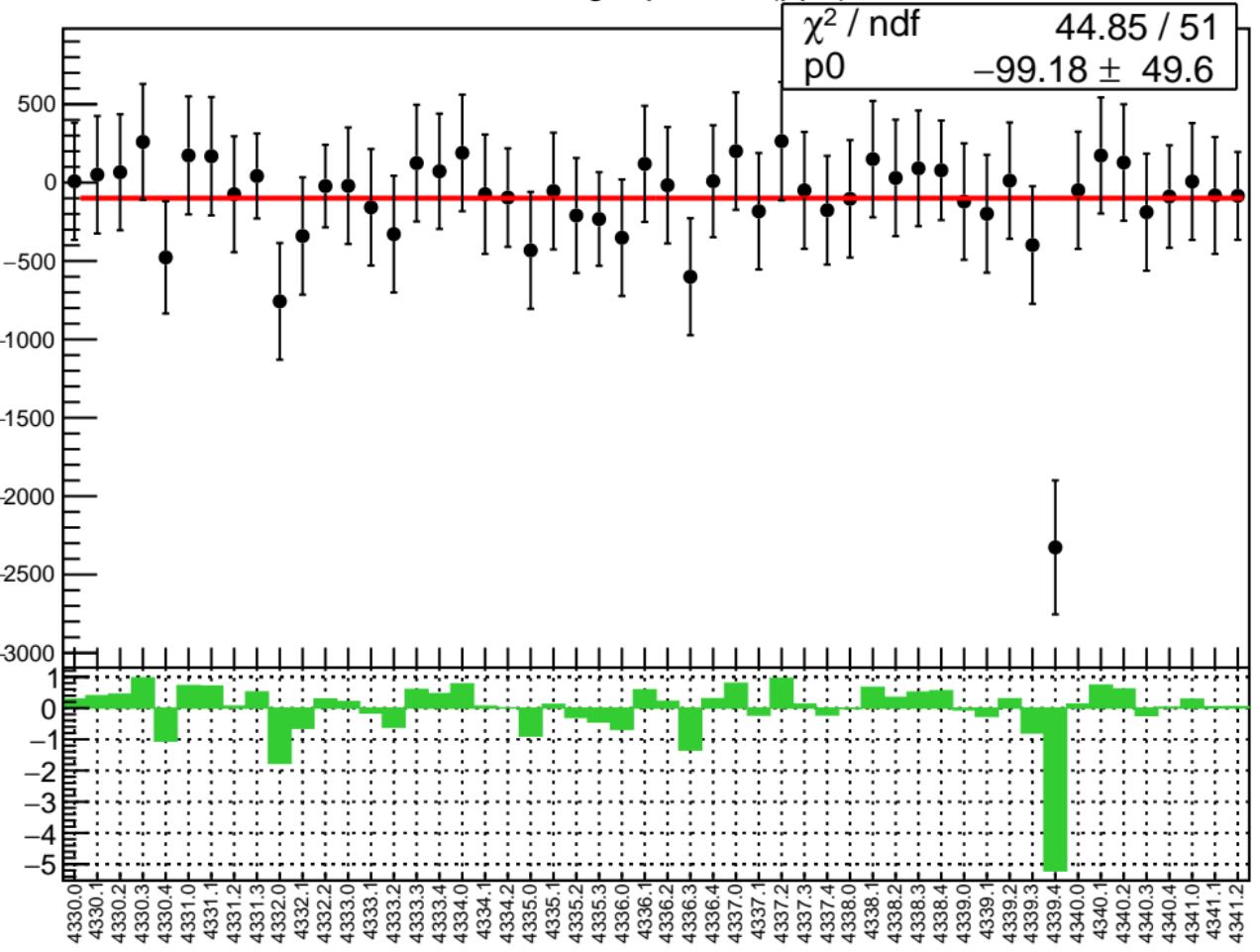
1D pull distribution



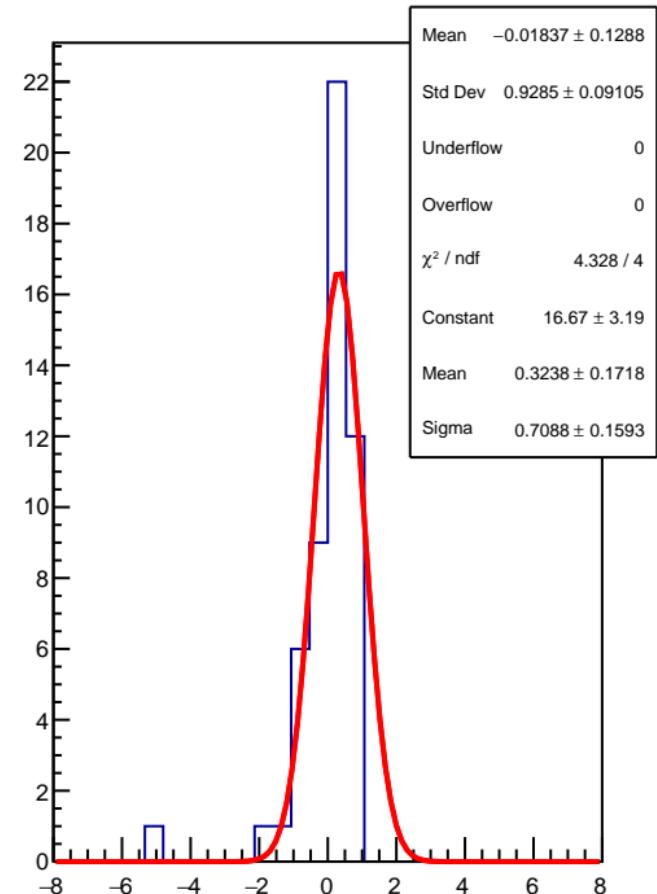
# corr\_us\_avg\_bpm1Y RMS (ppm)



corr\_us\_avg\_bpm16X (ppb)

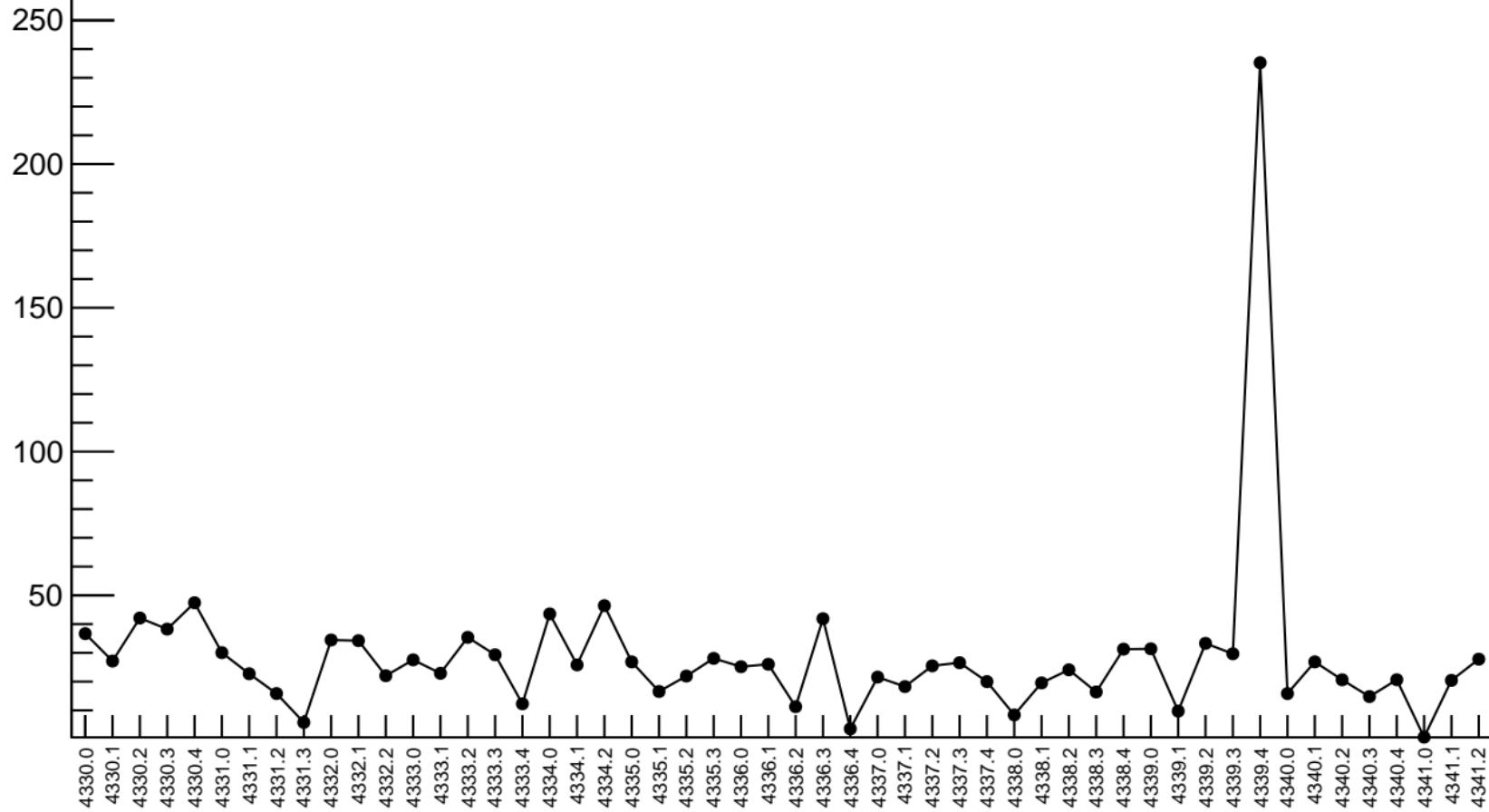


1D pull distribution



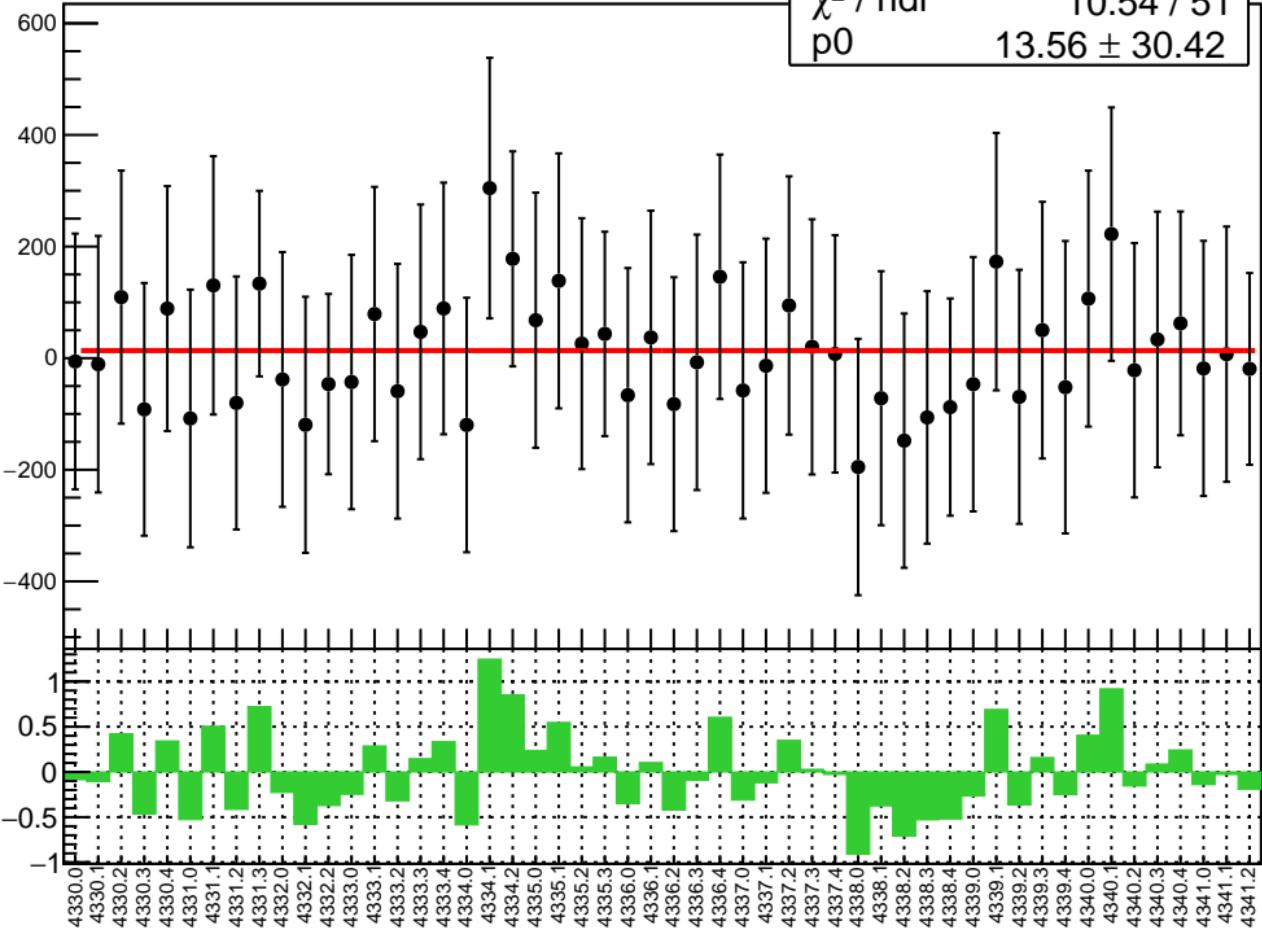
# corr\_us\_avg\_bpm16X RMS (ppm)

RMS (ppm)

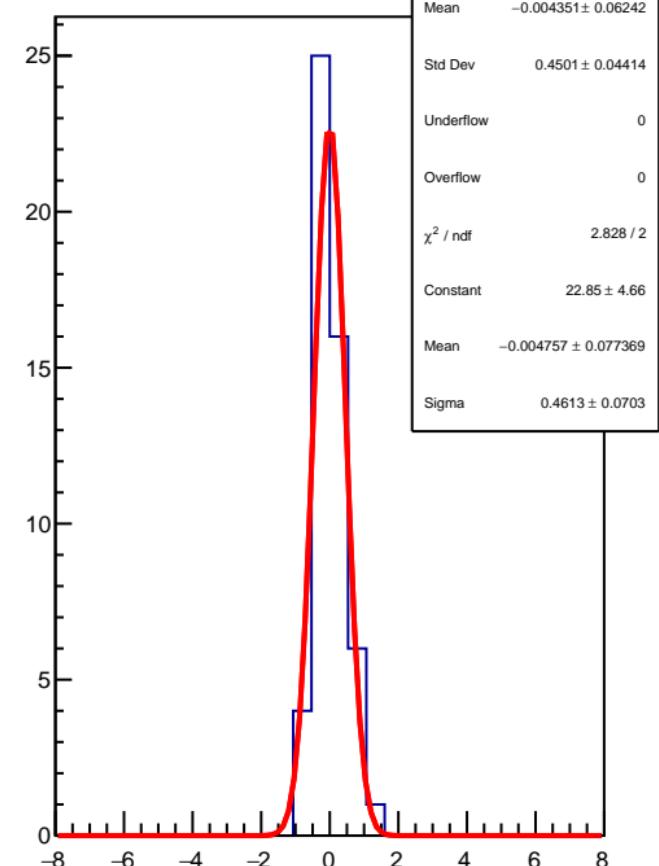


corr\_us\_avg\_bpm16Y (ppb)

$\chi^2 / \text{ndf}$  10.54 / 51  
p0  $13.56 \pm 30.42$

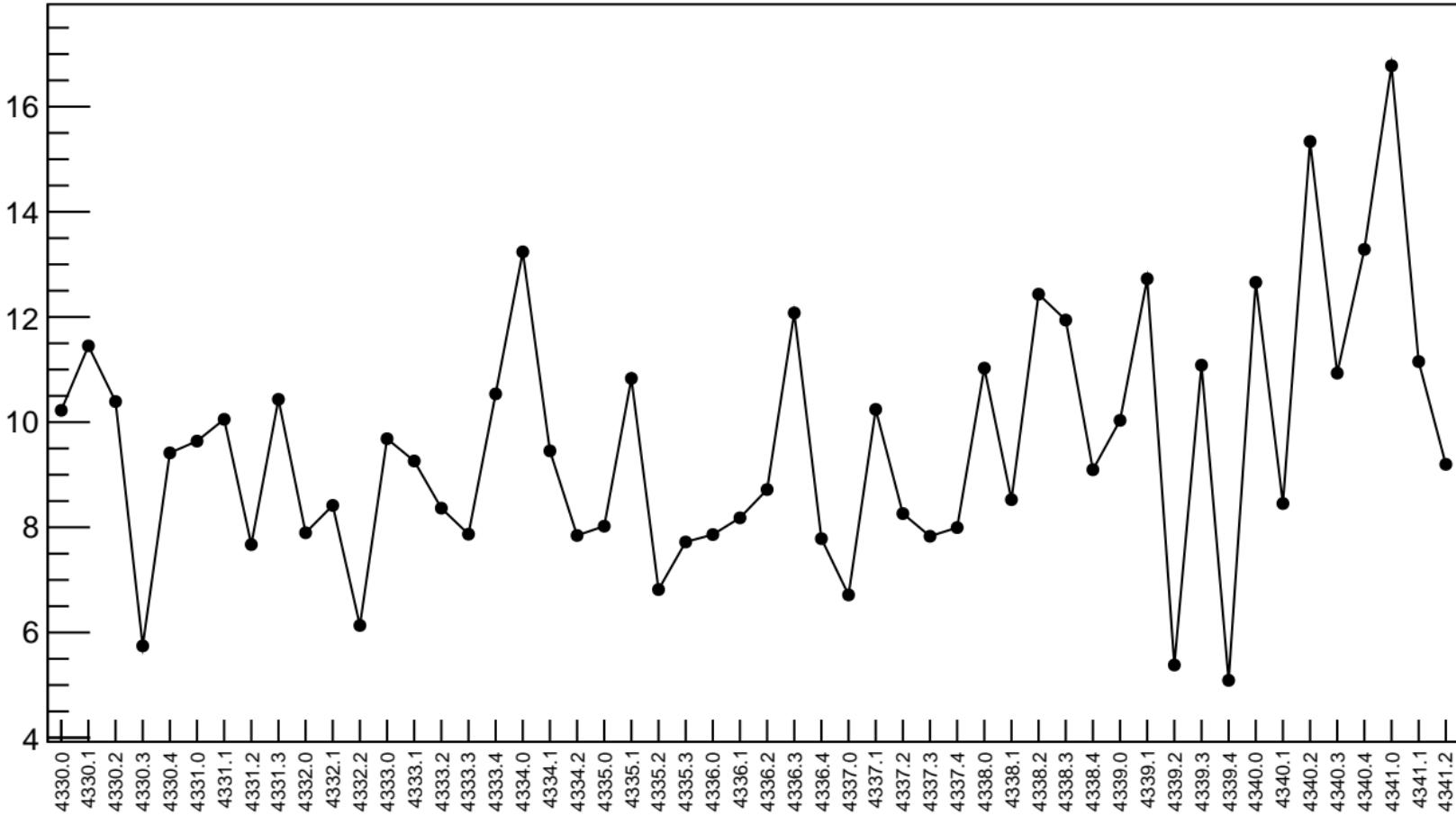


1D pull distribution



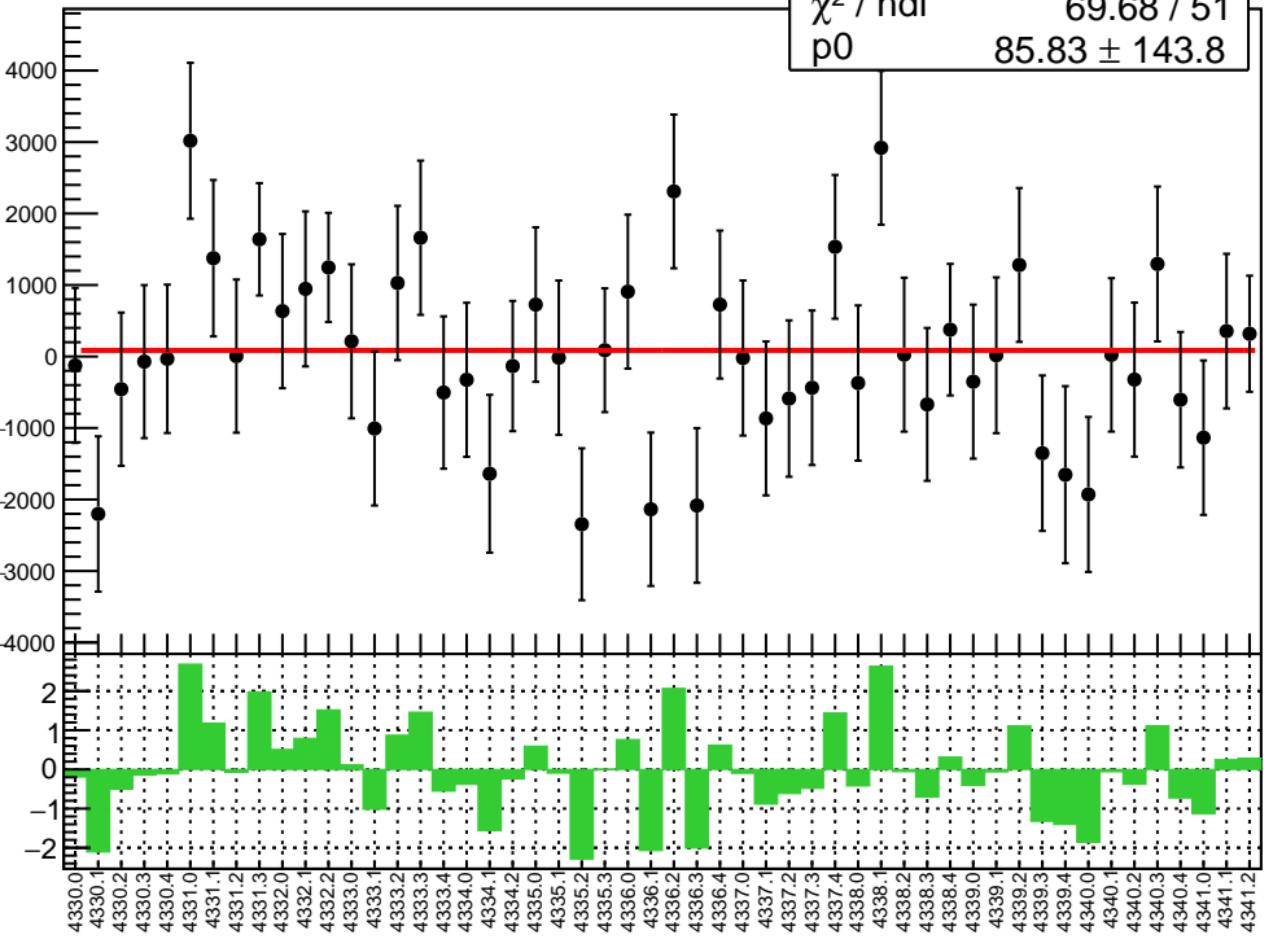
# corr\_us\_avg\_bpm16Y RMS (ppm)

RMS (ppm)

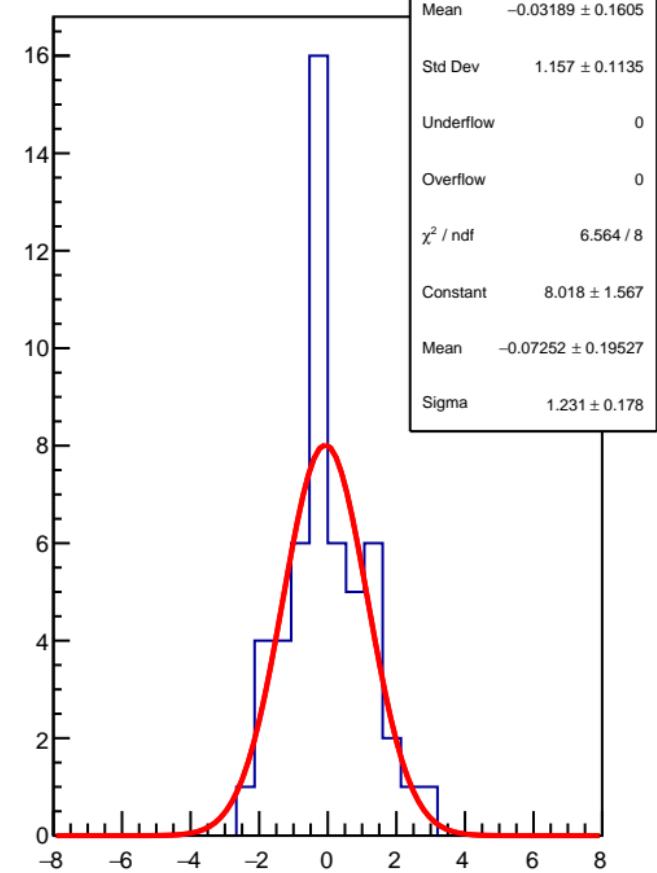


corr\_us\_avg\_bpm12X (ppb)

$\chi^2 / \text{ndf}$  69.68 / 51  
p0  $85.83 \pm 143.8$

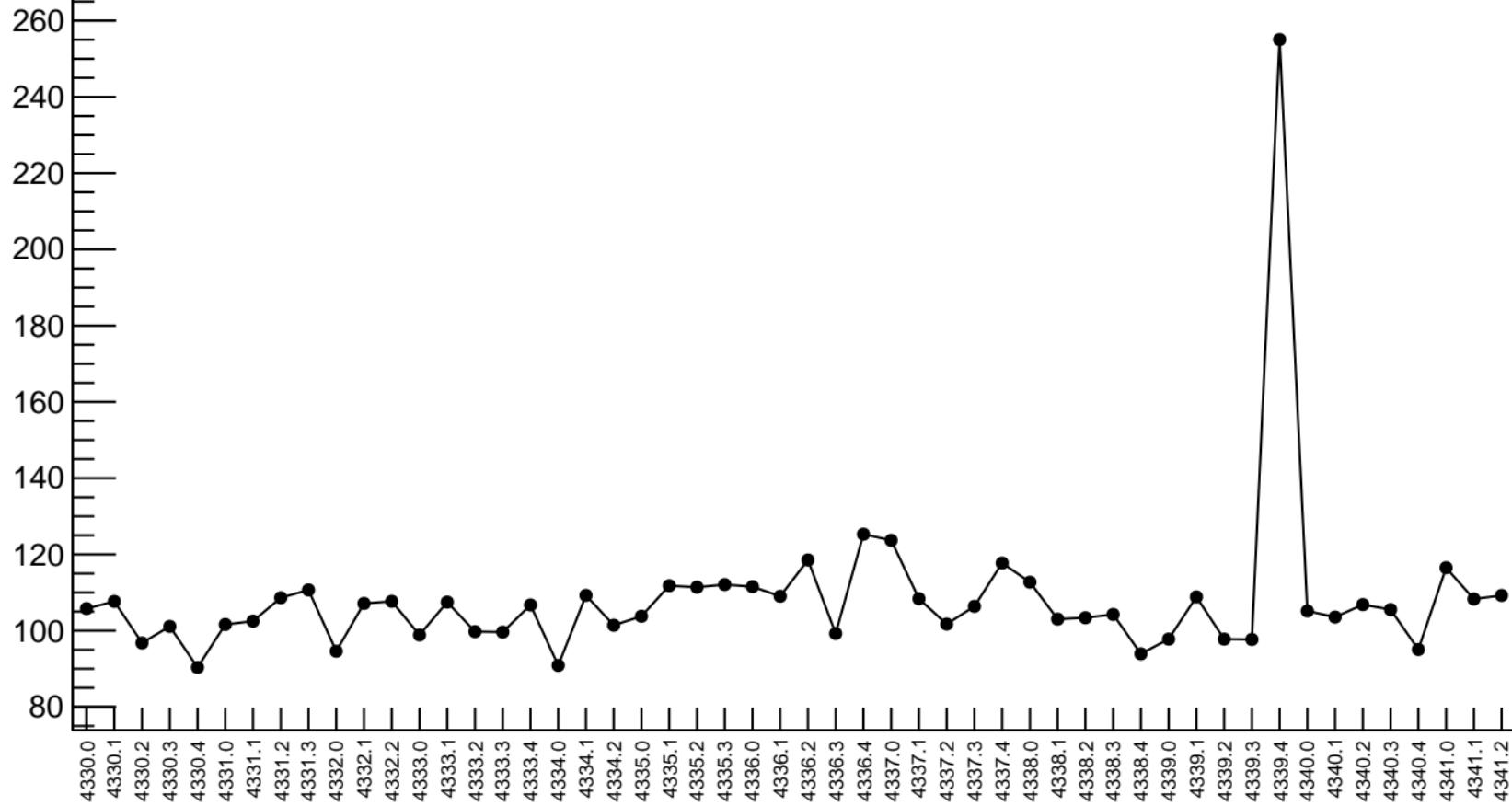


1D pull distribution

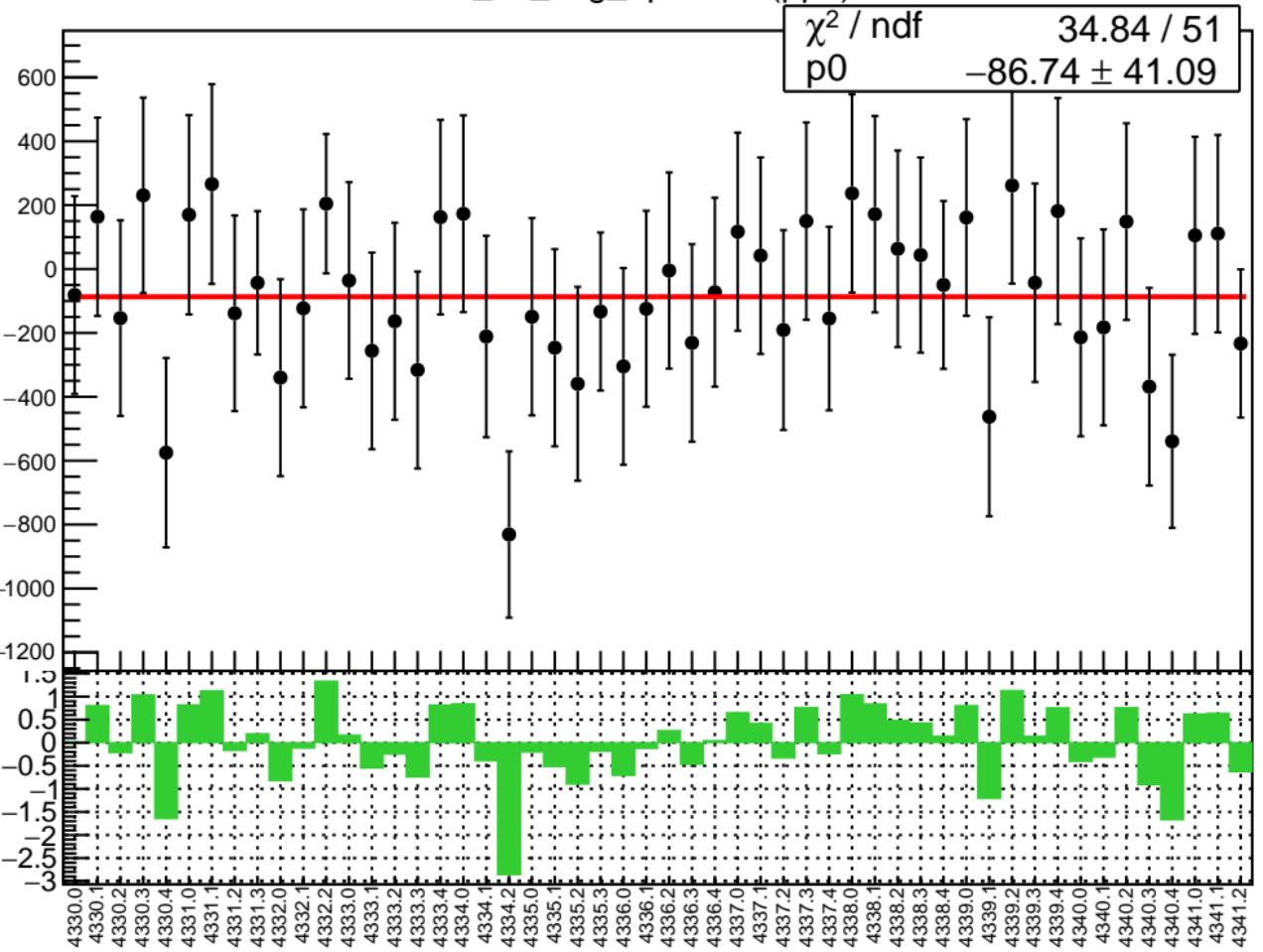


# corr\_us\_avg\_bpm12X RMS (ppm)

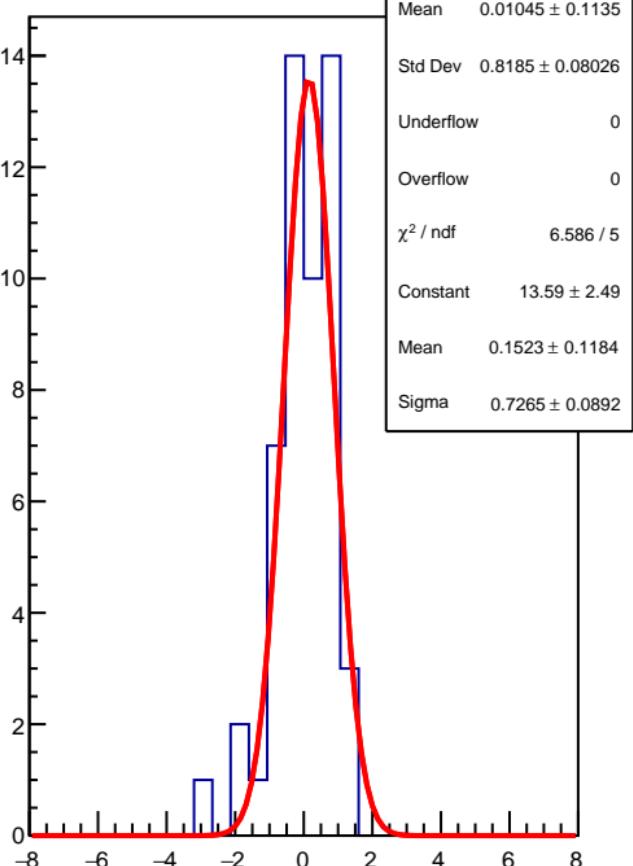
RMS (ppm)



corr\_us\_avg\_bpm12Y (ppb)

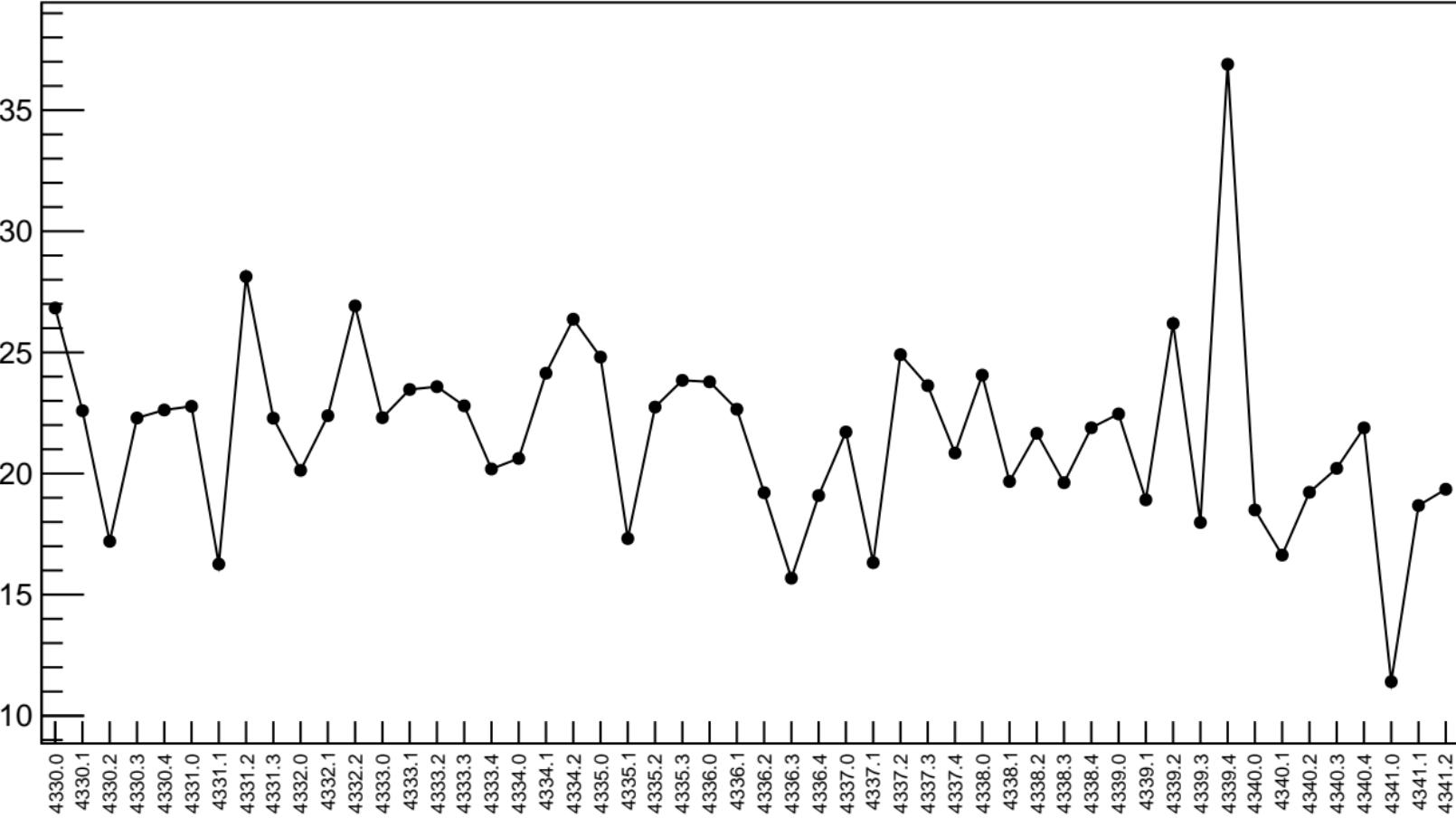


1D pull distribution

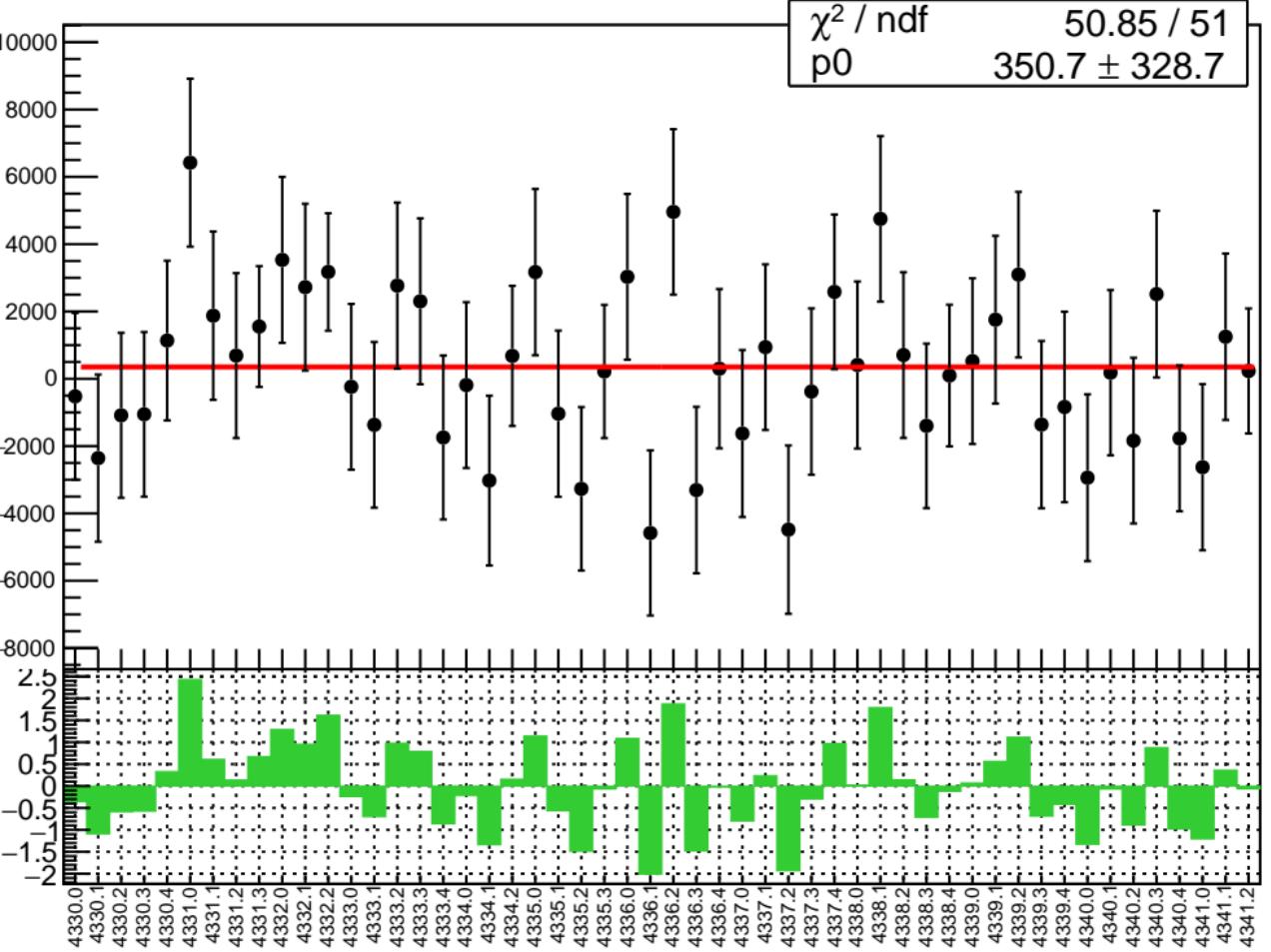


# corr\_us\_avg\_bpm12Y RMS (ppm)

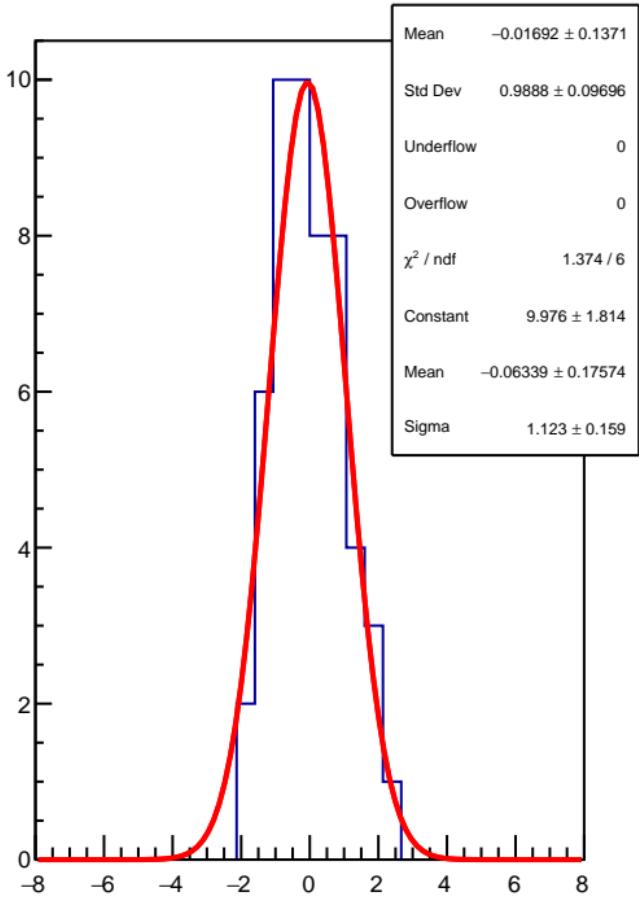
RMS (ppm)



corr\_us\_avg\_bpm11X (ppb)



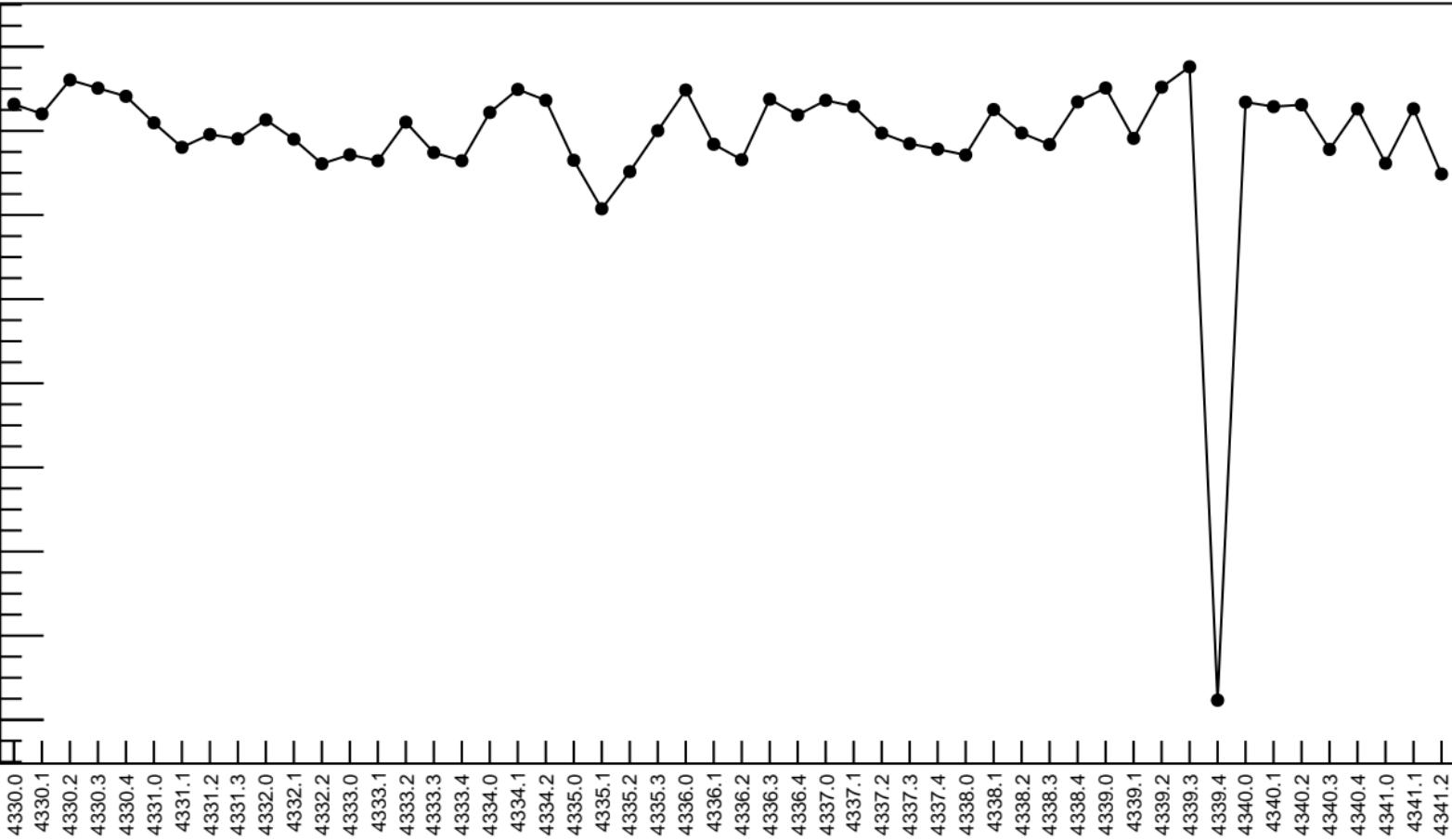
1D pull distribution



# corr\_us\_avg\_bpm11X RMS (ppm)

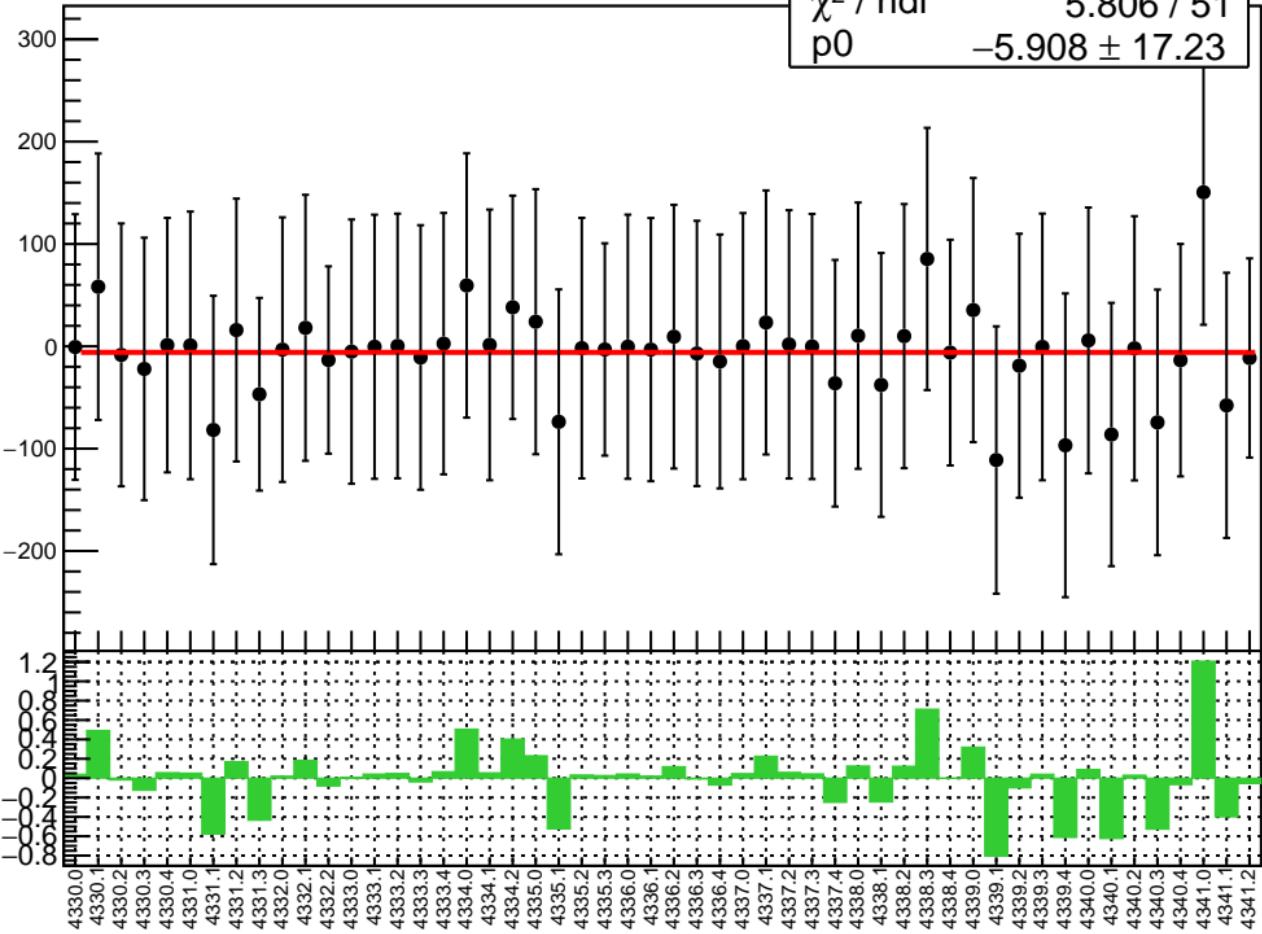
RMS (ppm)

240  
220  
200  
180  
160  
140  
120  
100  
80

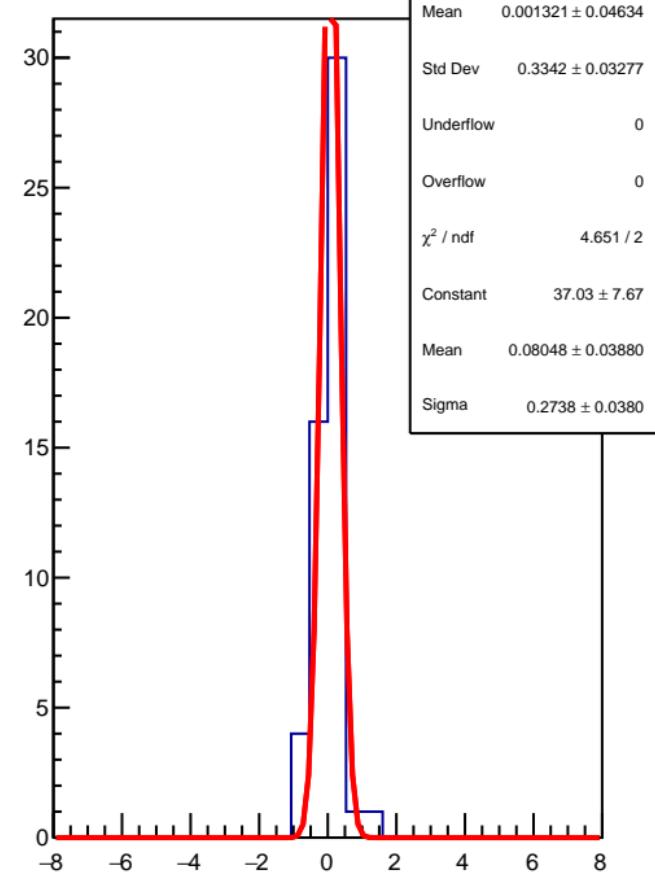


corr\_us\_avg\_bpm11Y (ppb)

$\chi^2 / \text{ndf}$  5.806 / 51  
p0  $-5.908 \pm 17.23$



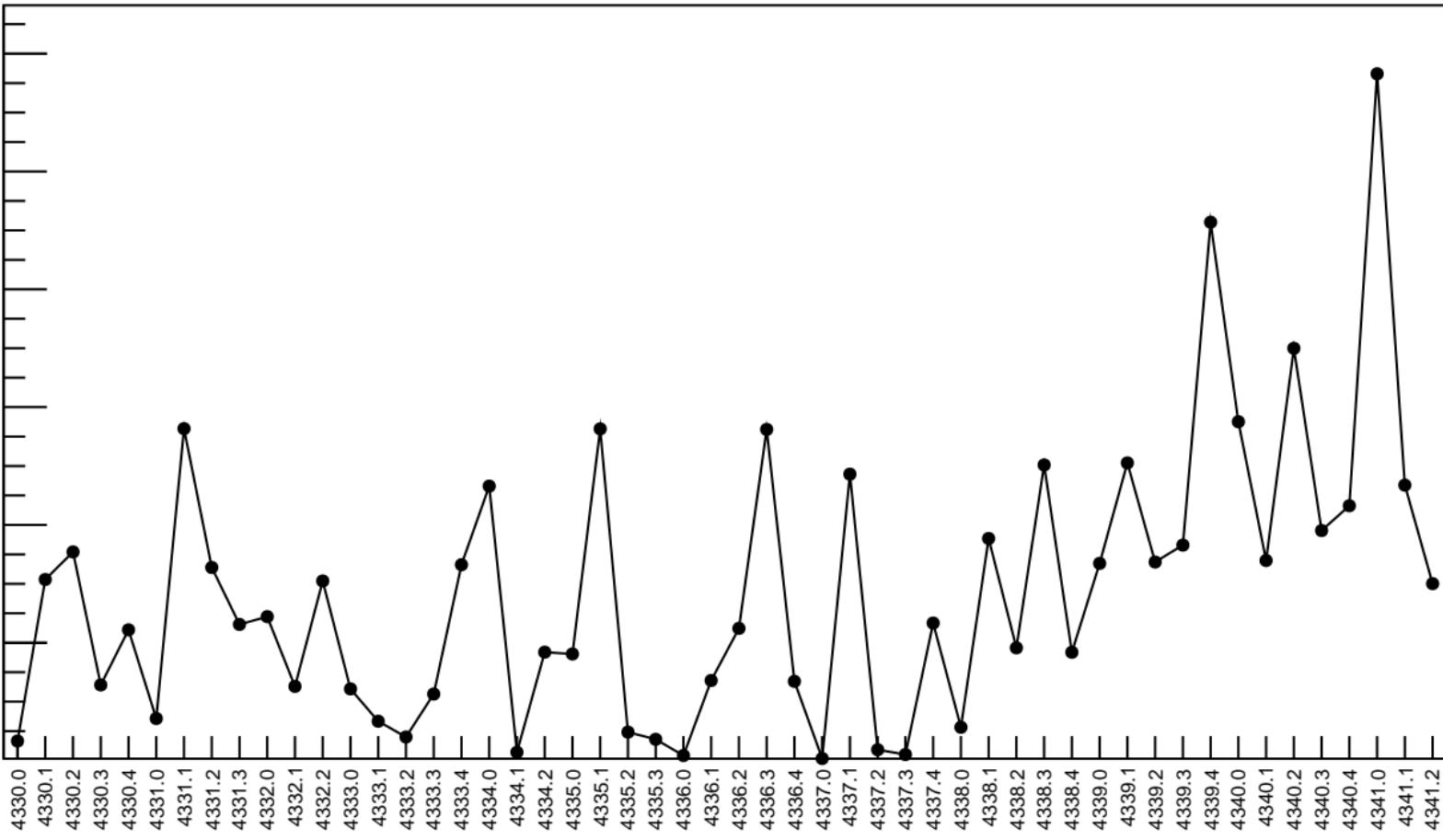
1D pull distribution



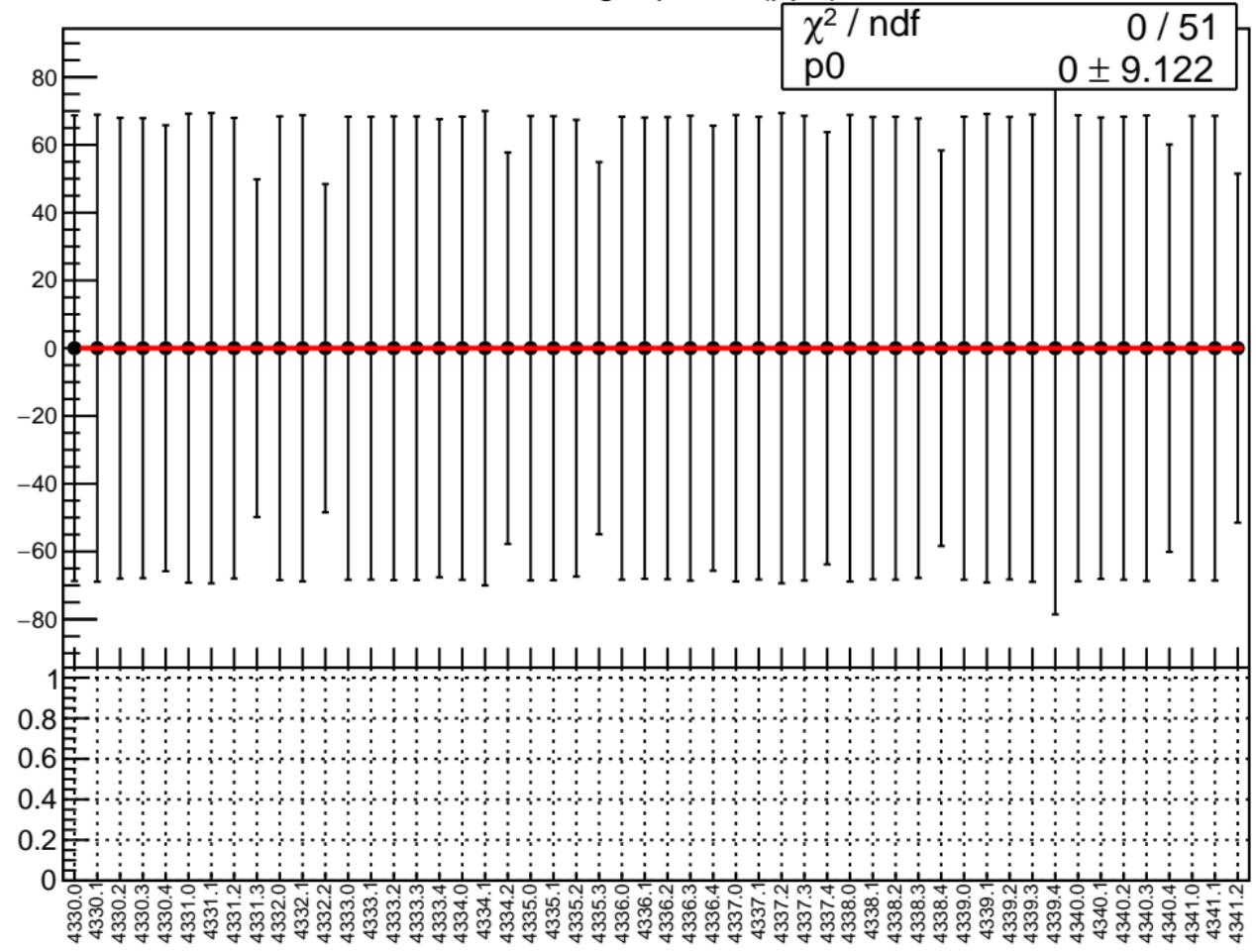
# corr\_us\_avg\_bpm11Y RMS (ppm)

RMS (ppm)

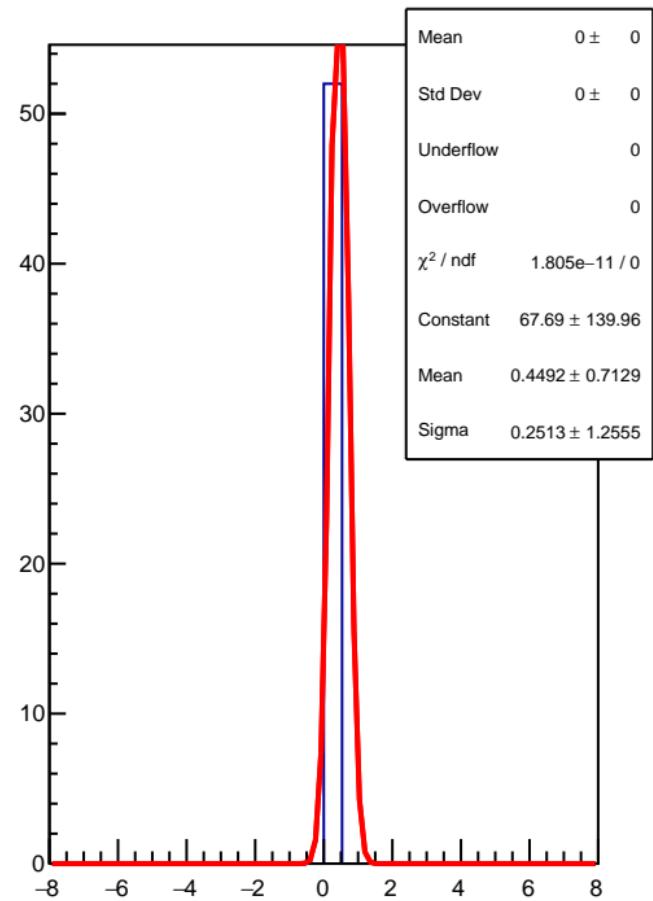
12  
10  
8  
6  
4  
2



corr\_us\_avg\_bpm8X (ppb)

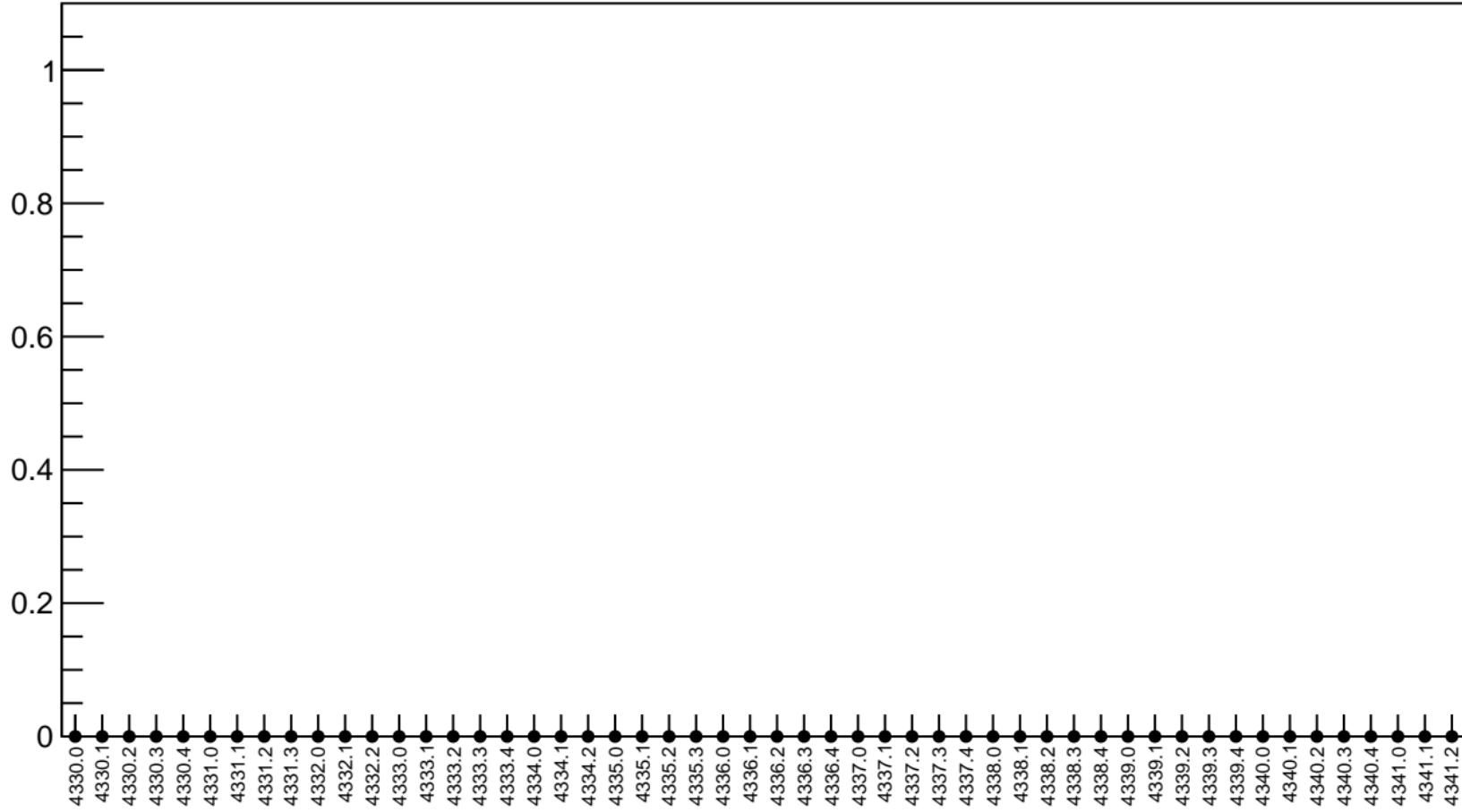


1D pull distribution

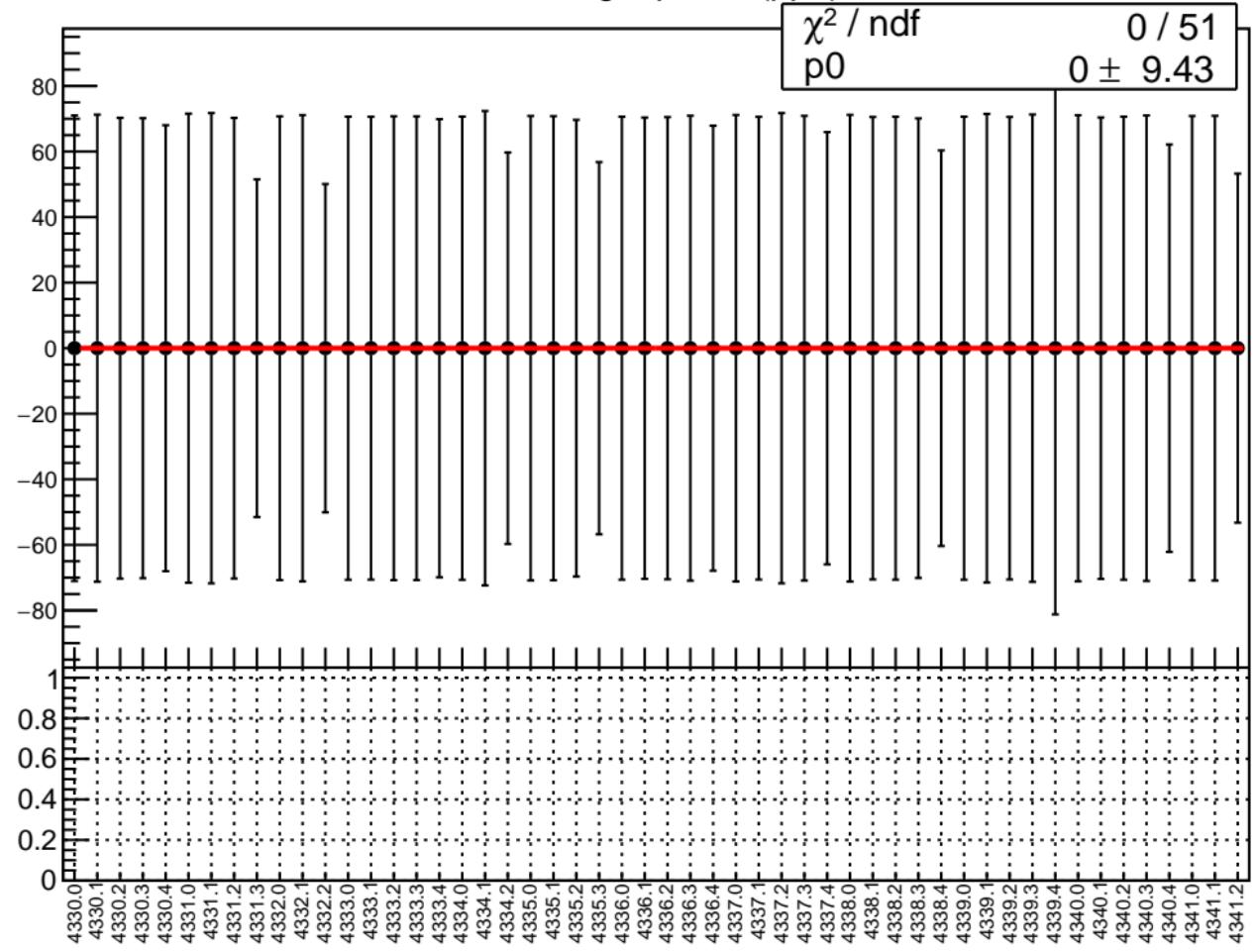


# corr\_us\_avg\_bpm8X RMS (ppm)

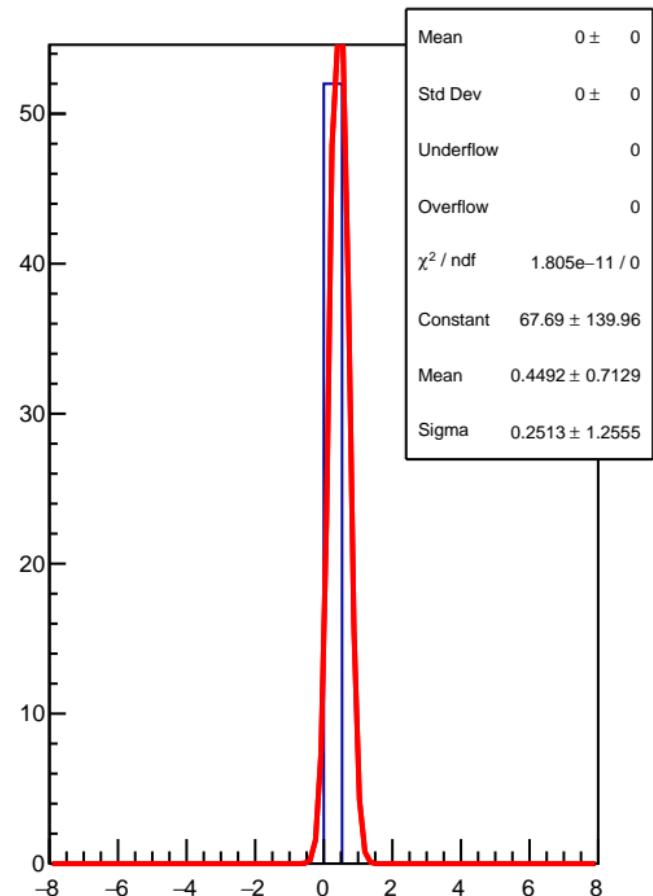
RMS (ppm)



corr\_us\_avg\_bpm8Y (ppb)

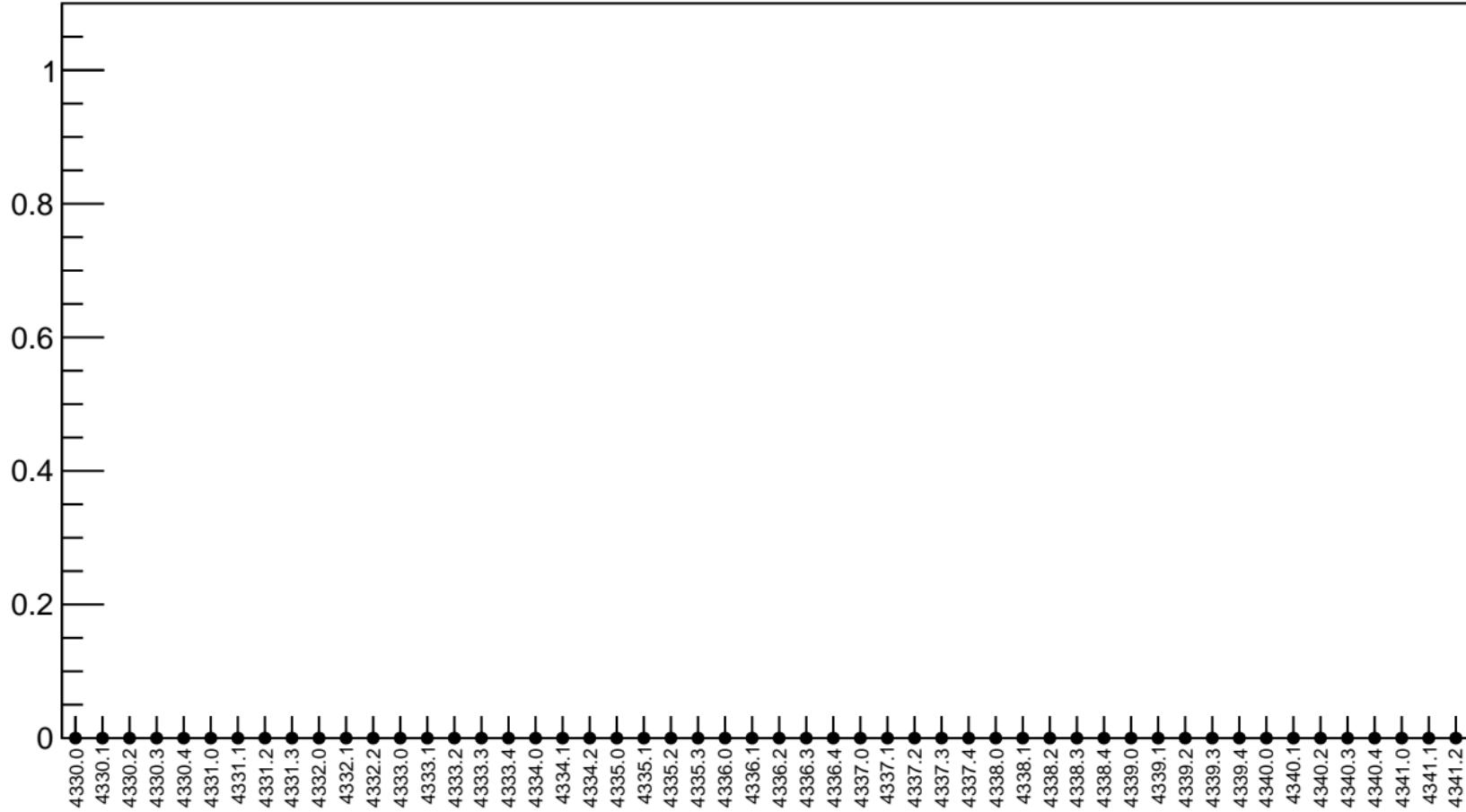


1D pull distribution

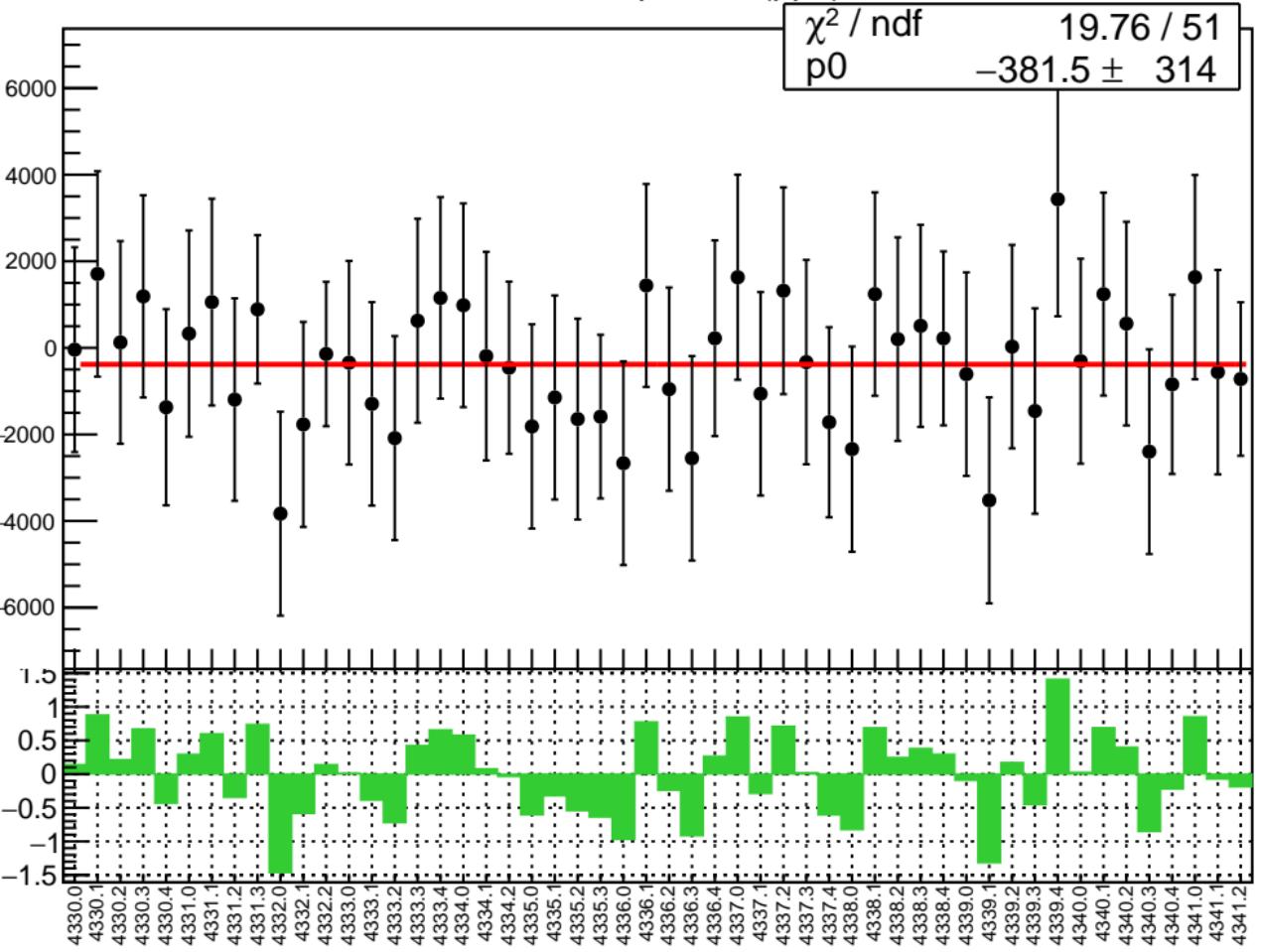


# corr\_us\_avg\_bpm8Y RMS (ppm)

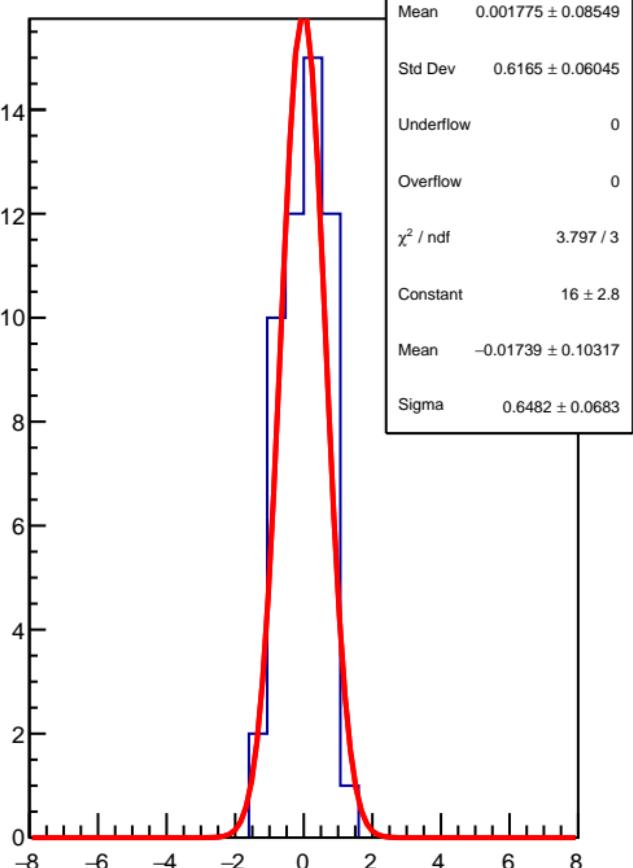
RMS (ppm)



corr\_us\_dd\_bpm4eX (ppb)

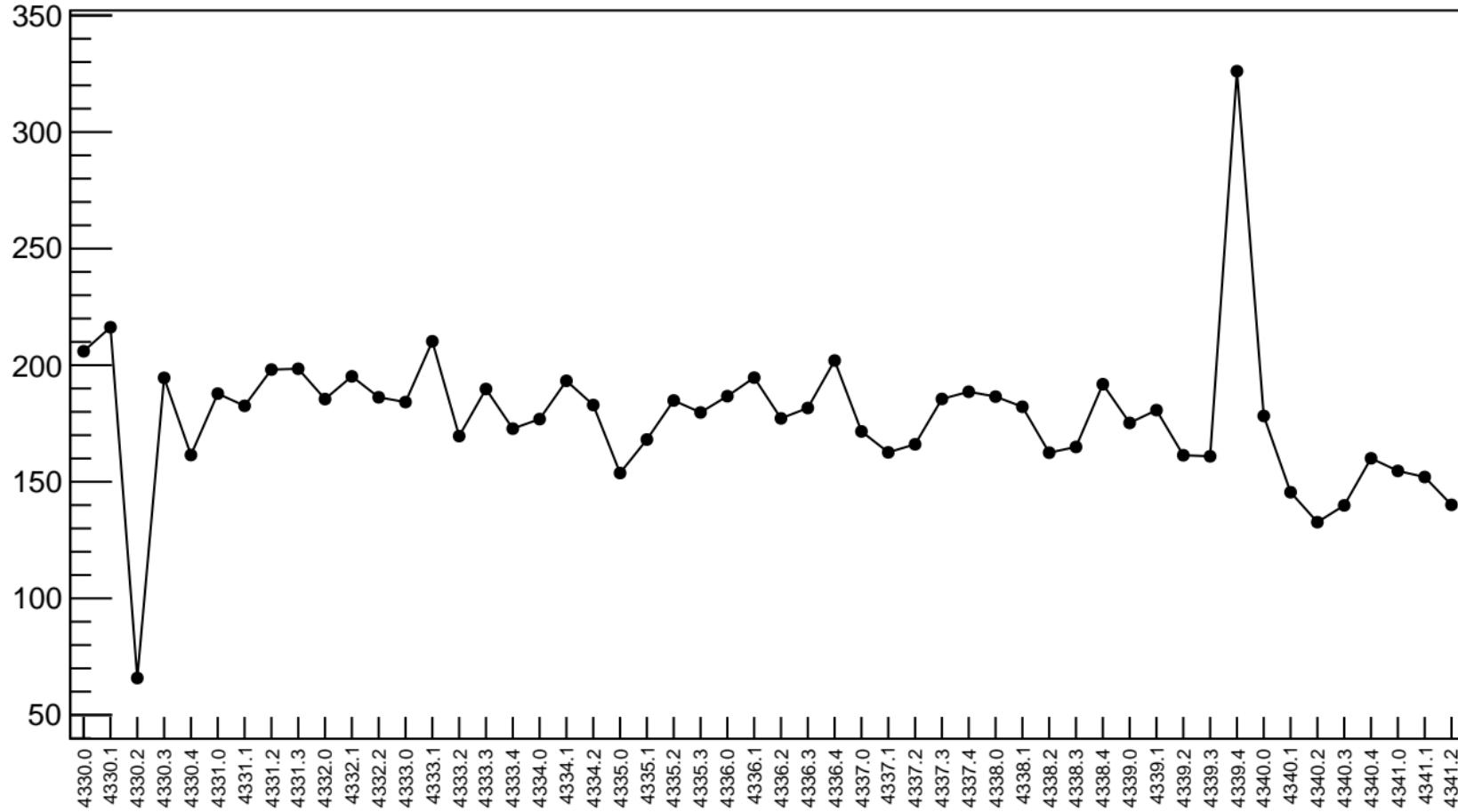


1D pull distribution



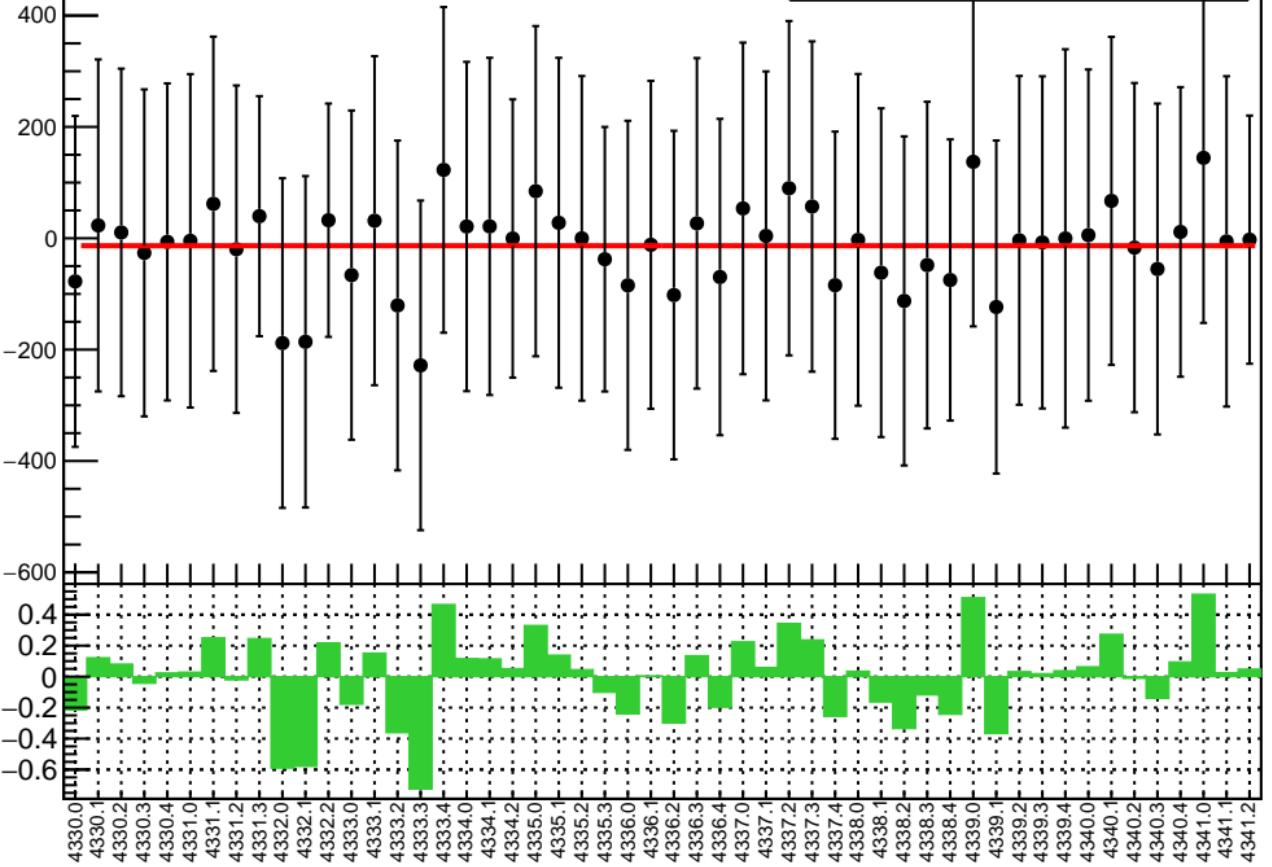
# corr\_us\_dd\_bpm4eX RMS (ppm)

RMS (ppm)

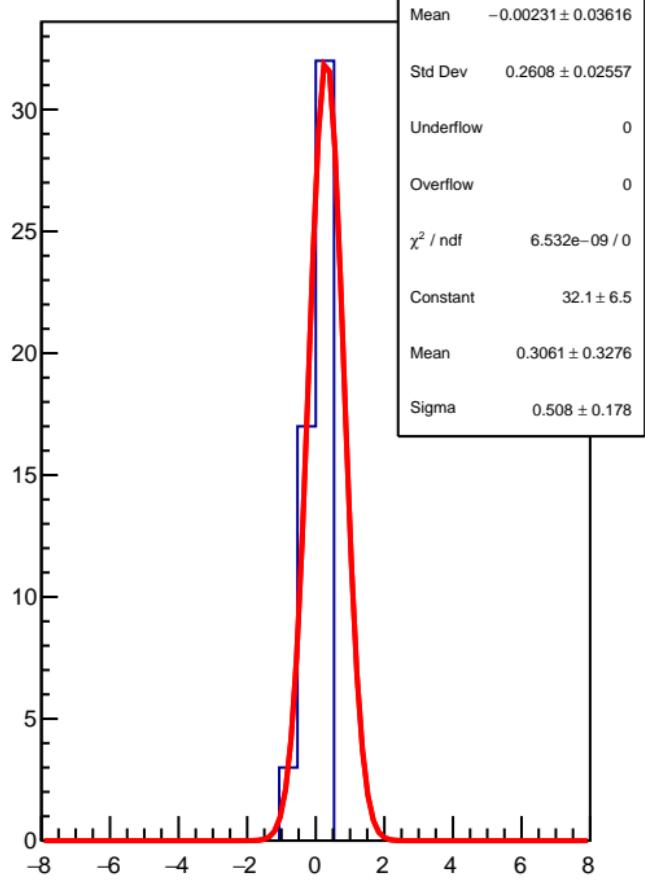


corr\_us\_dd\_bpm4eY (ppb)

$\chi^2 / \text{ndf}$  3.536 / 51  
p0  $-13.41 \pm 39.46$

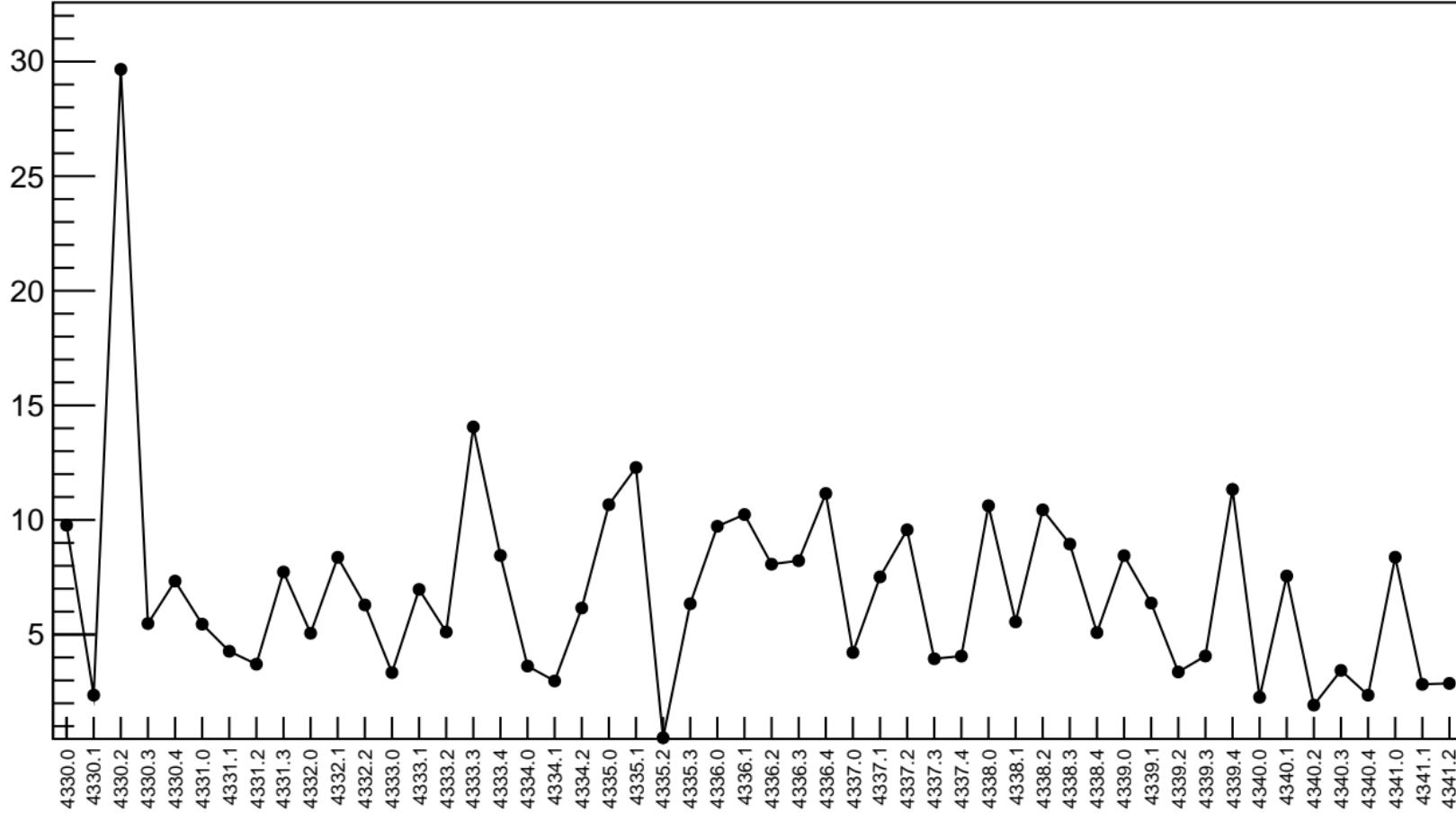


1D pull distribution

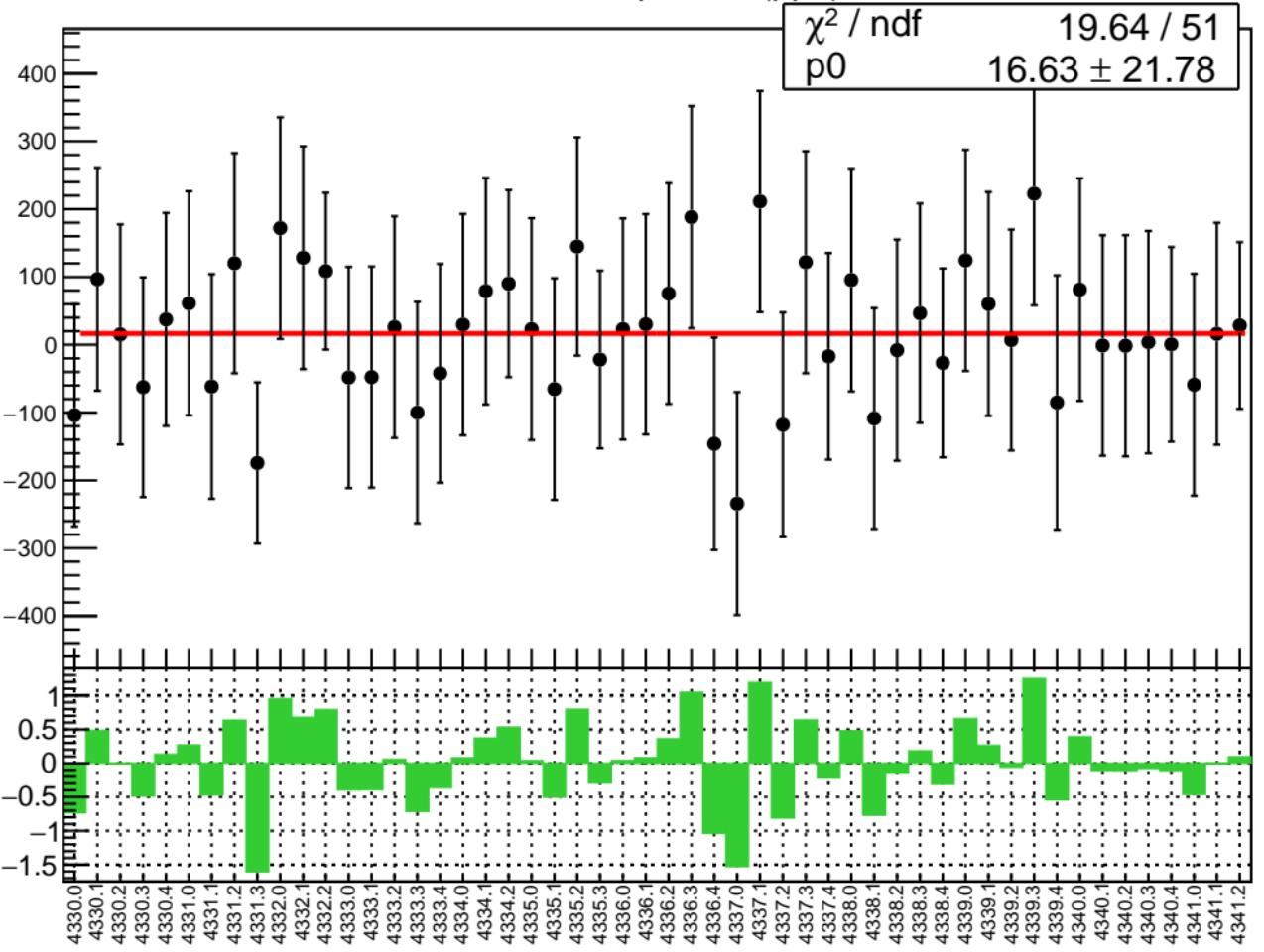


# corr\_us\_dd\_bpm4eY RMS (ppm)

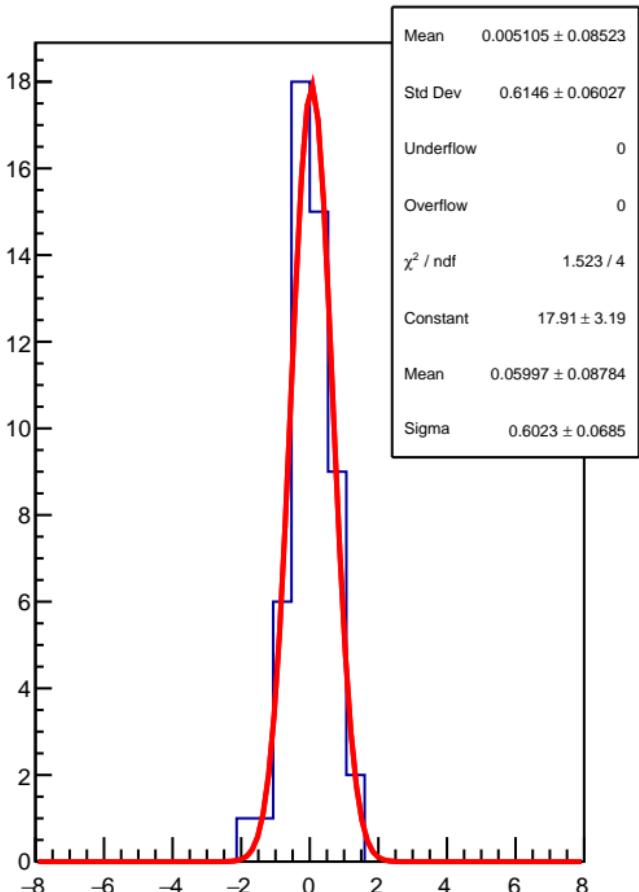
RMS (ppm)



corr\_us\_dd\_bpm4aX (ppb)

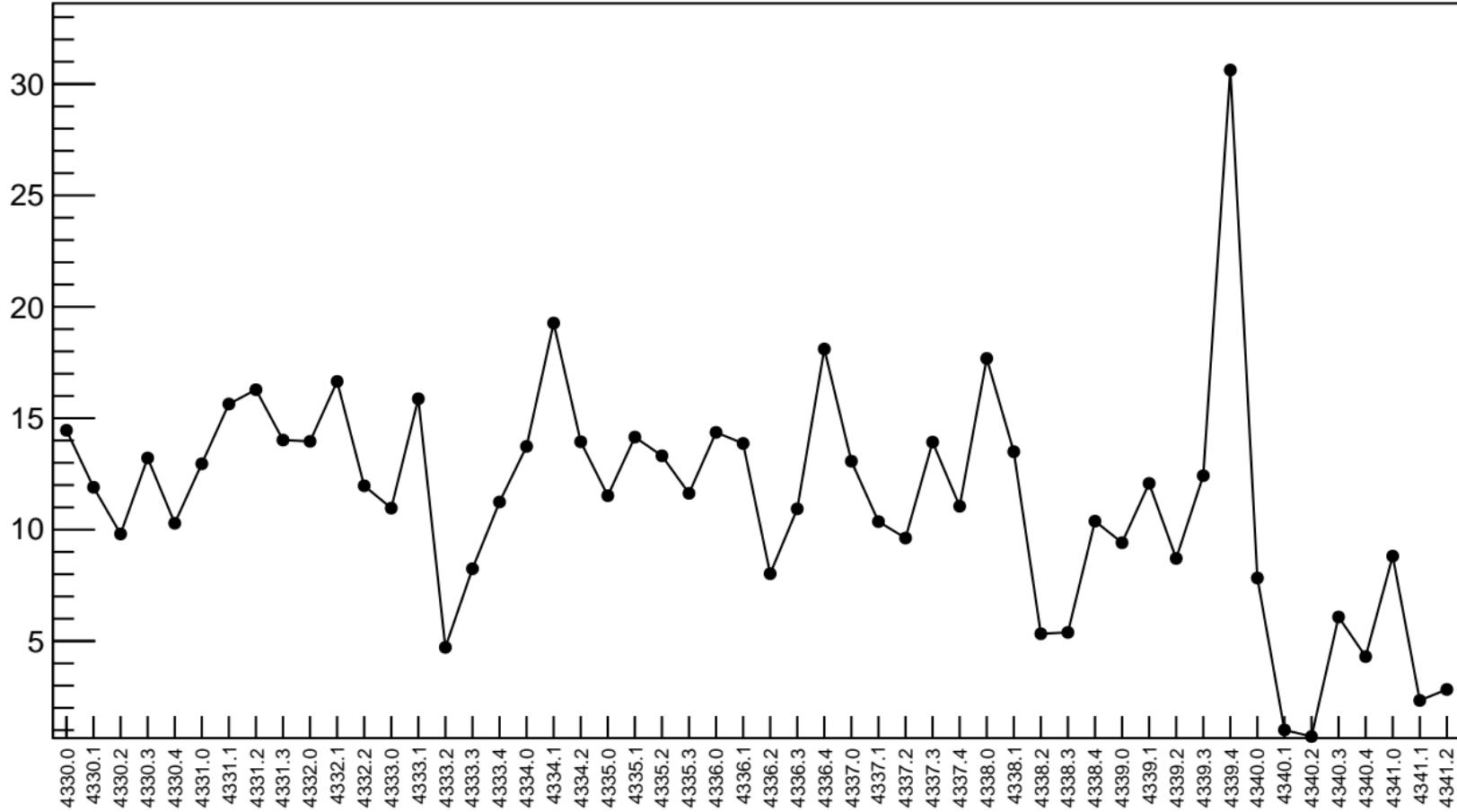


1D pull distribution



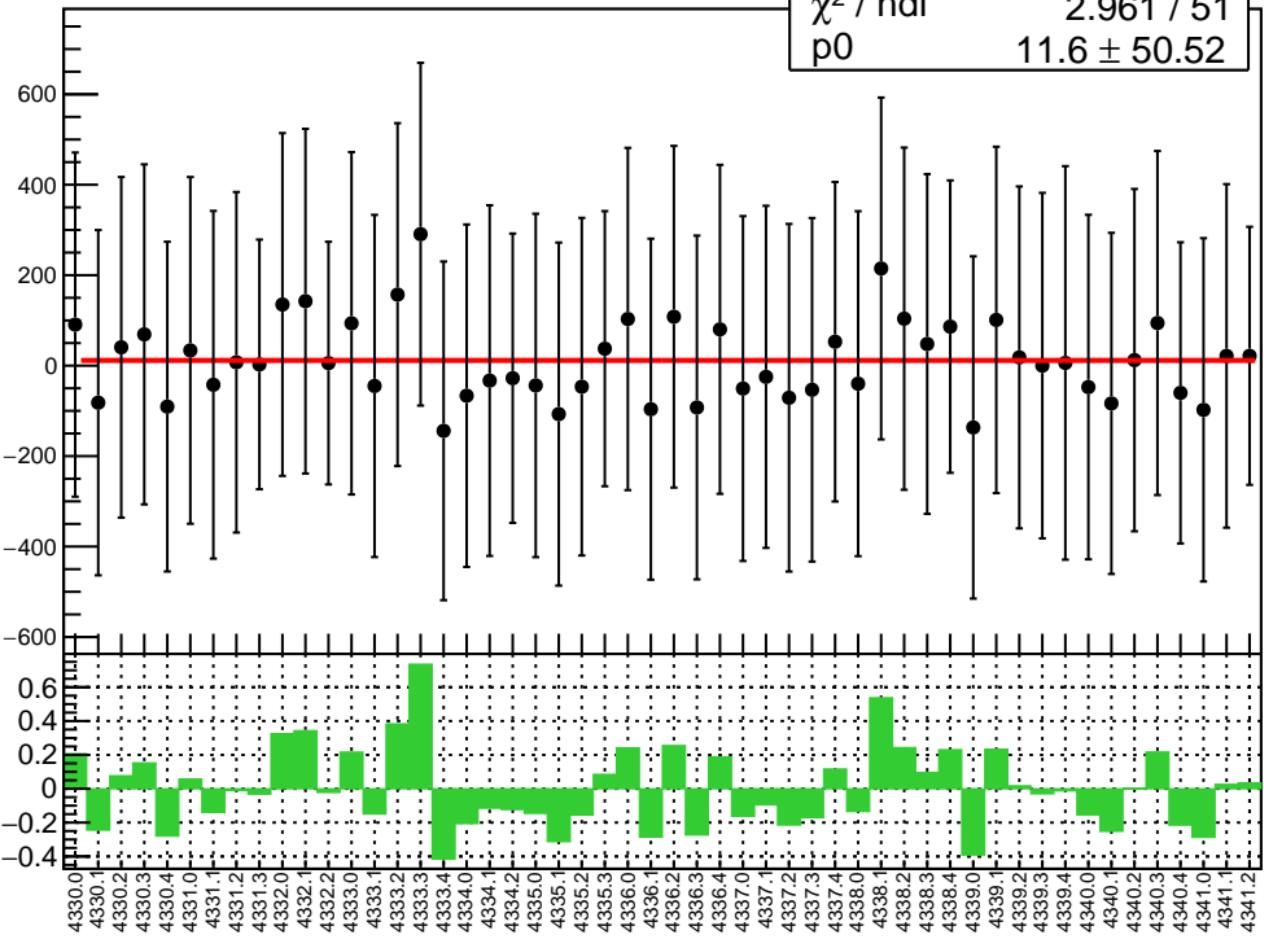
# corr\_us\_dd\_bpm4aX RMS (ppm)

RMS (ppm)

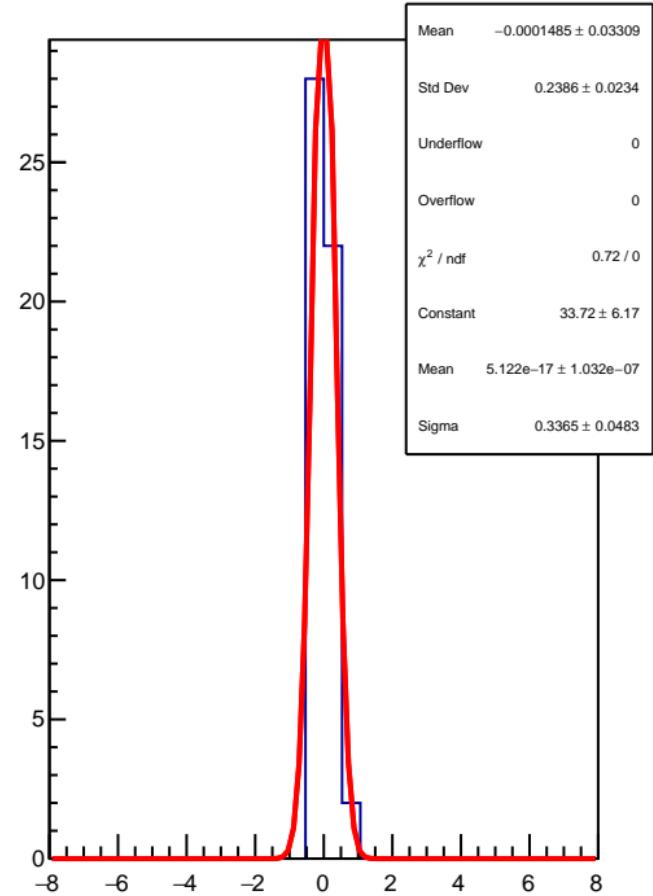


corr\_us\_dd\_bpm4aY (ppb)

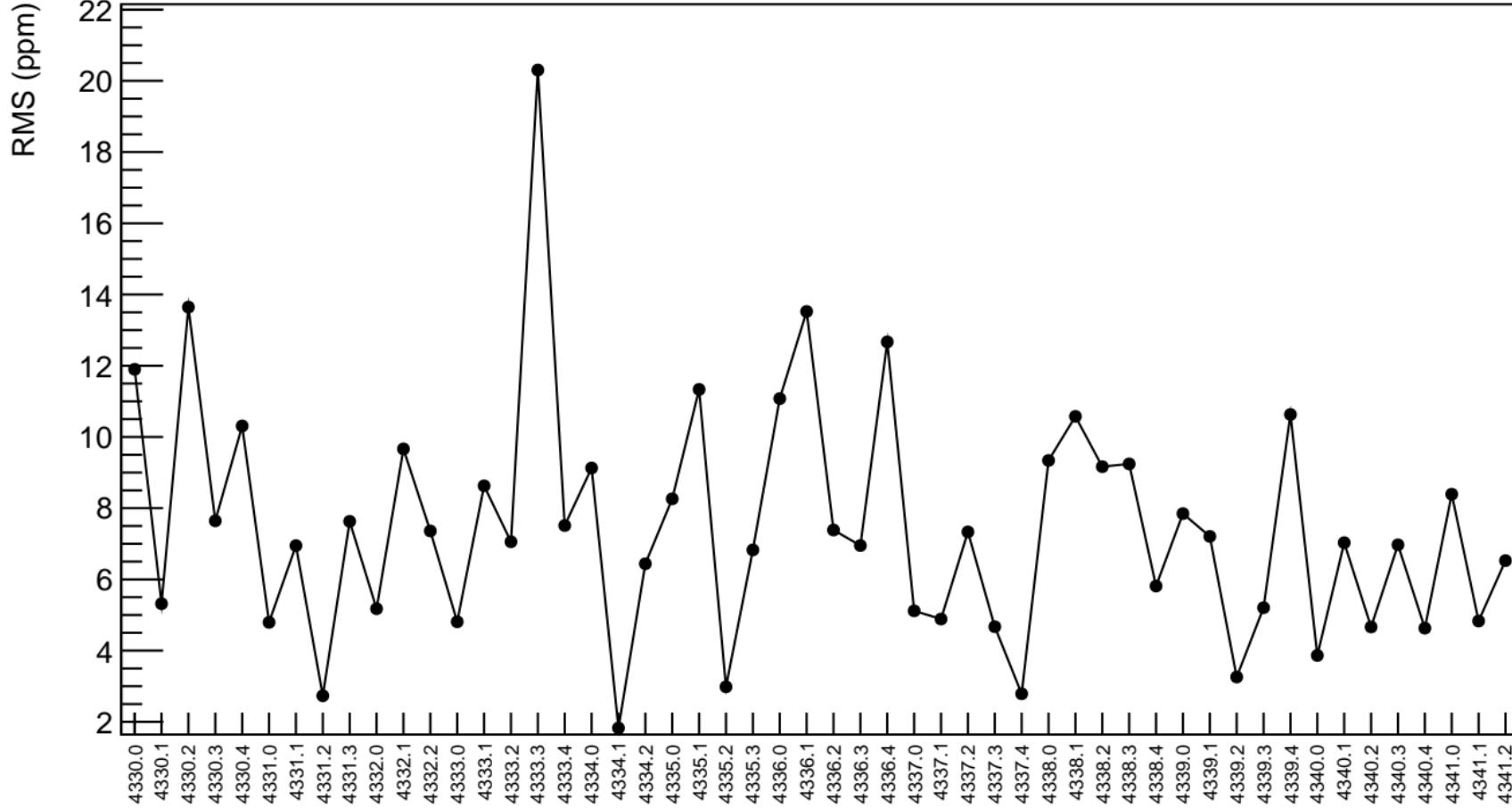
$\chi^2 / \text{ndf}$  2.961 / 51  
 $p_0$   $11.6 \pm 50.52$



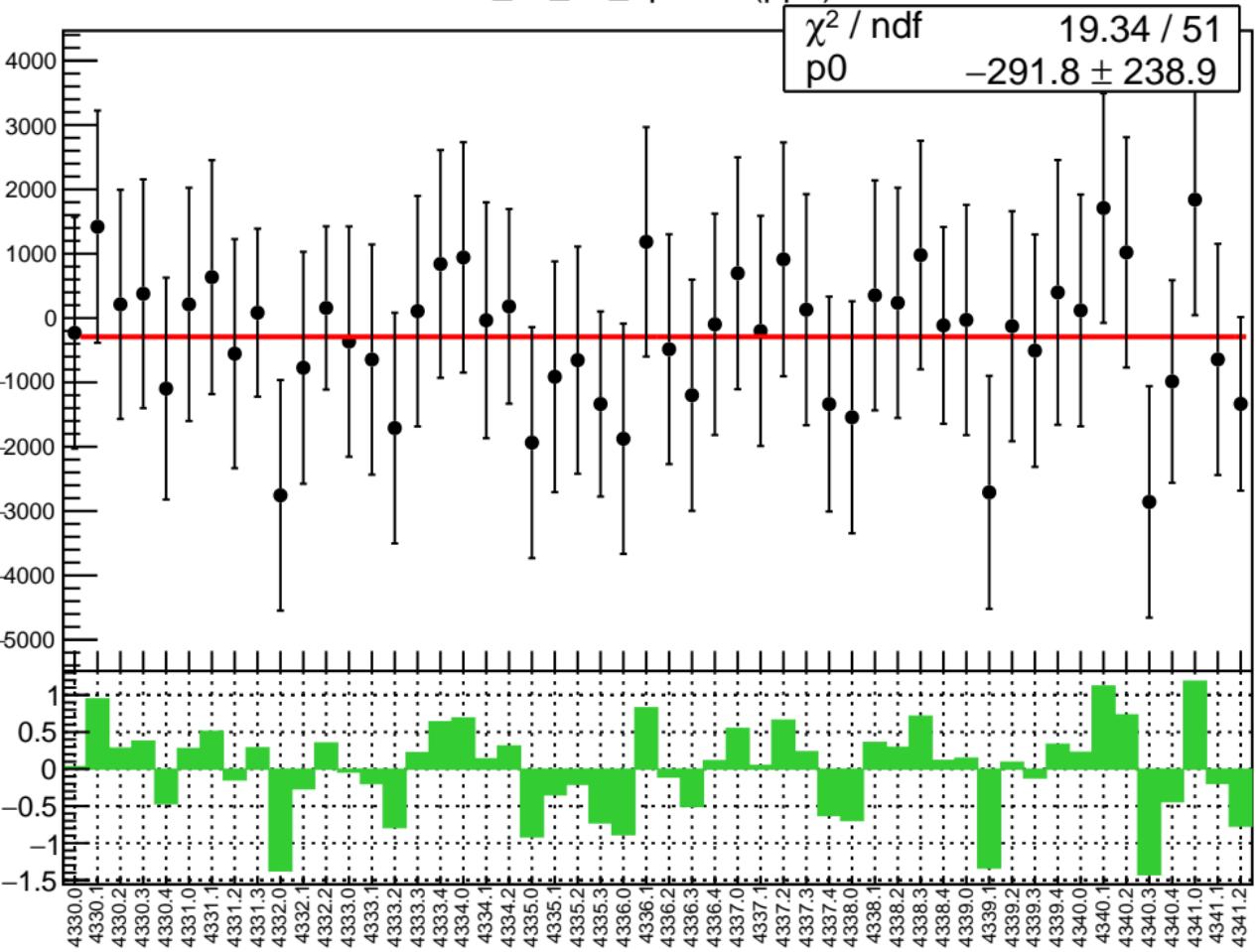
1D pull distribution



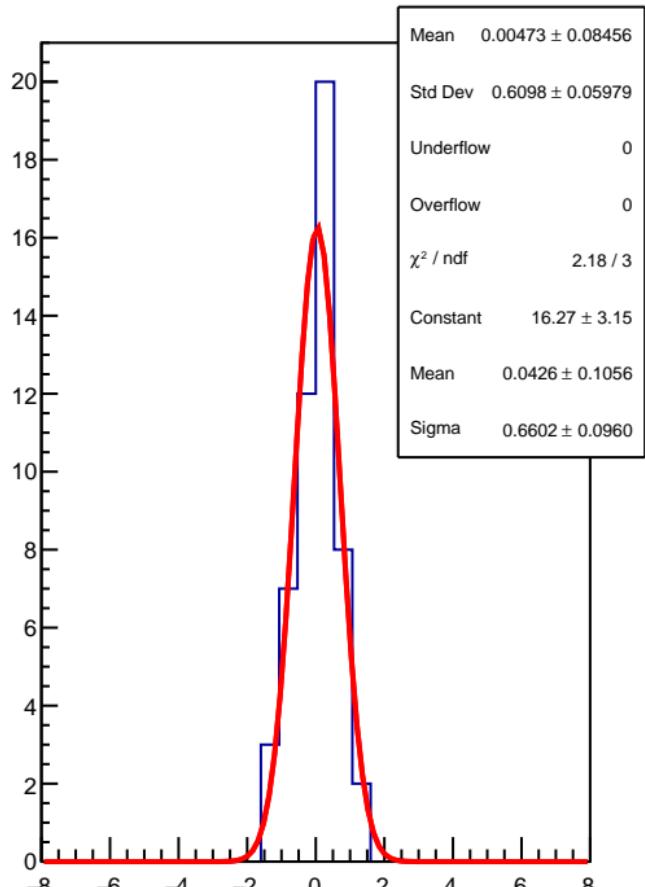
# corr\_us\_dd\_bpm4aY RMS (ppm)



corr\_us\_dd\_bpm1X (ppb)



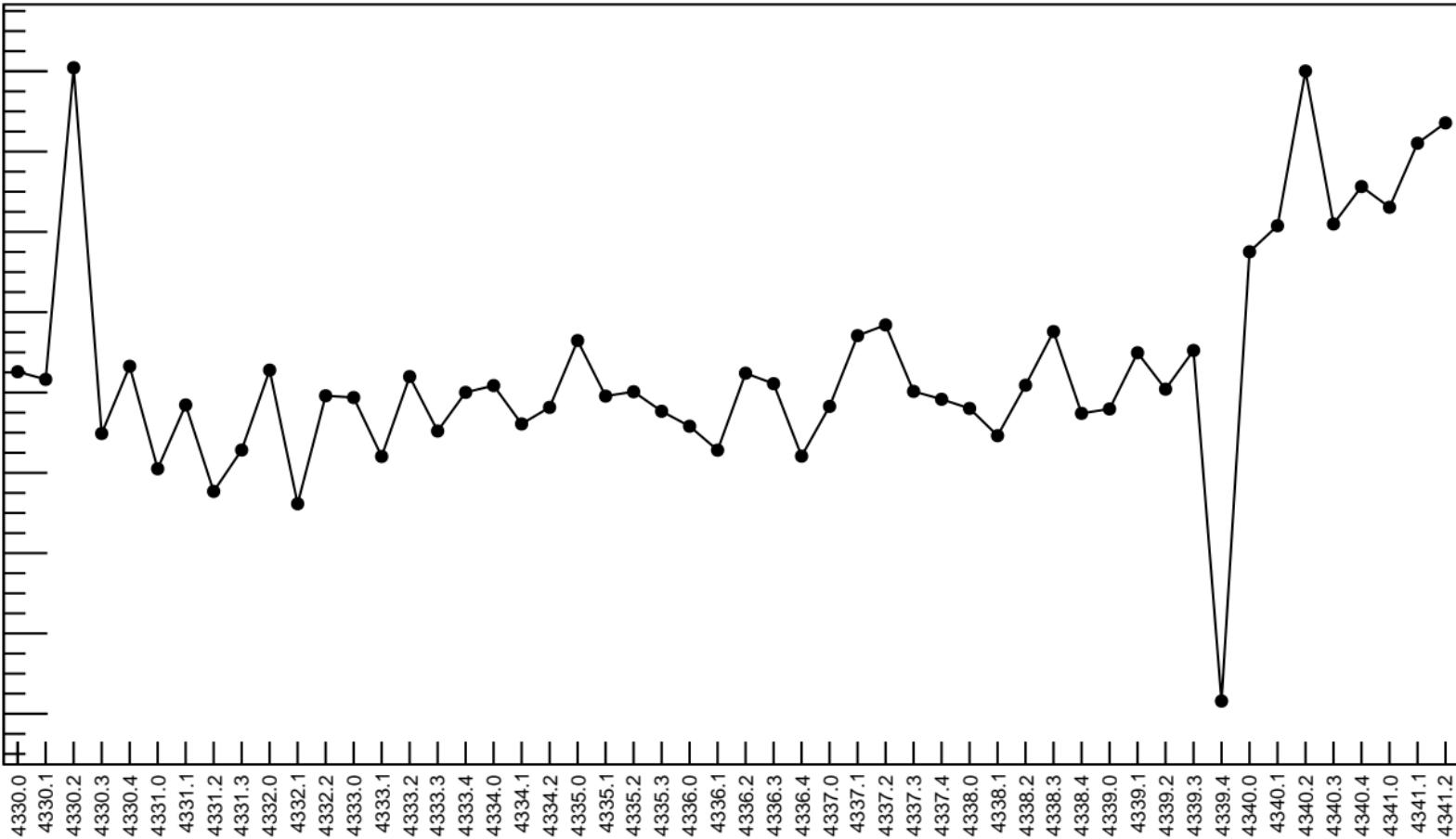
1D pull distribution



# corr\_us\_dd\_bpm1X RMS (ppm)

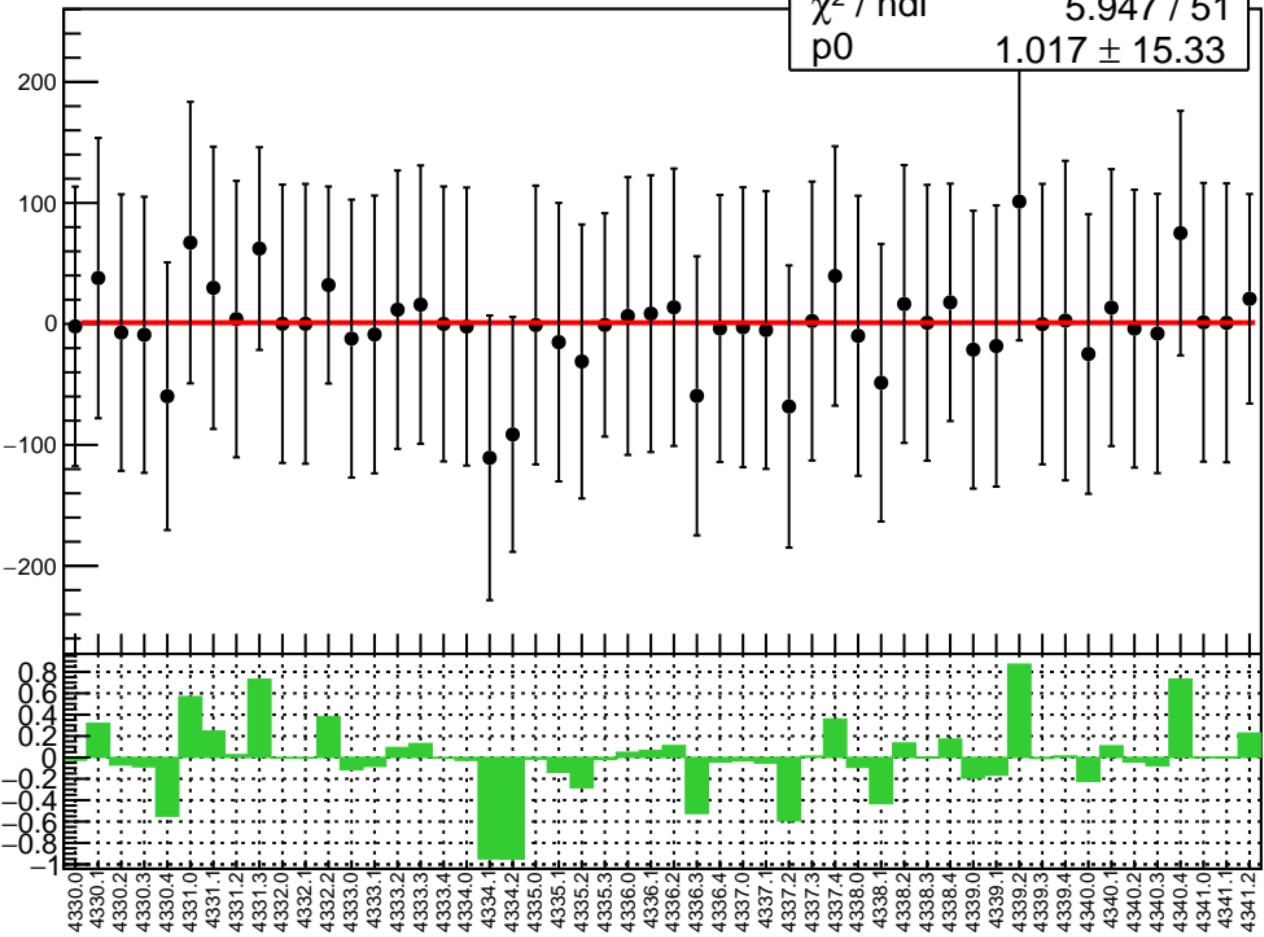
RMS (ppm)

200  
180  
160  
140  
120  
100  
80  
60  
40

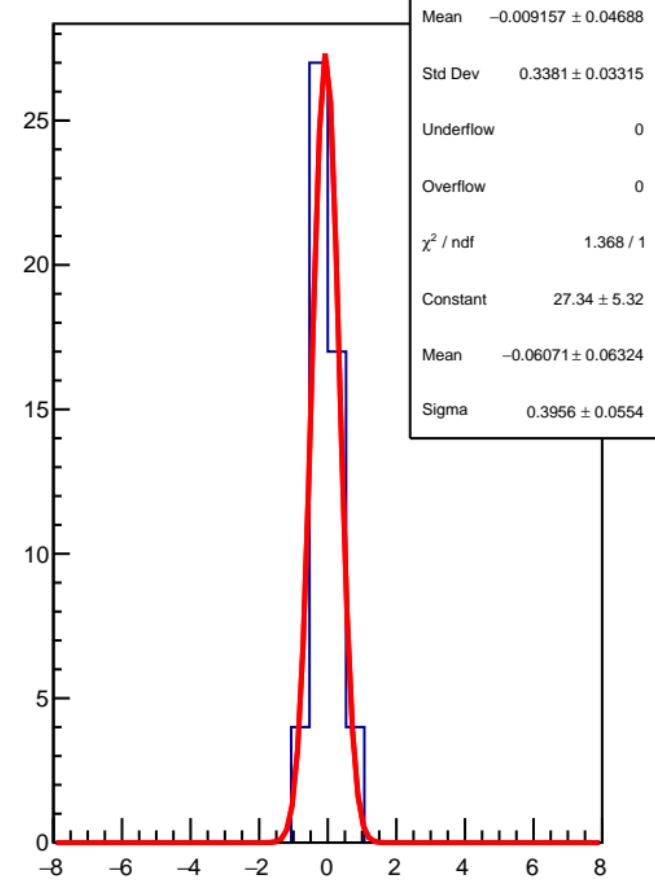


corr\_us\_dd\_bpm1Y (ppb)

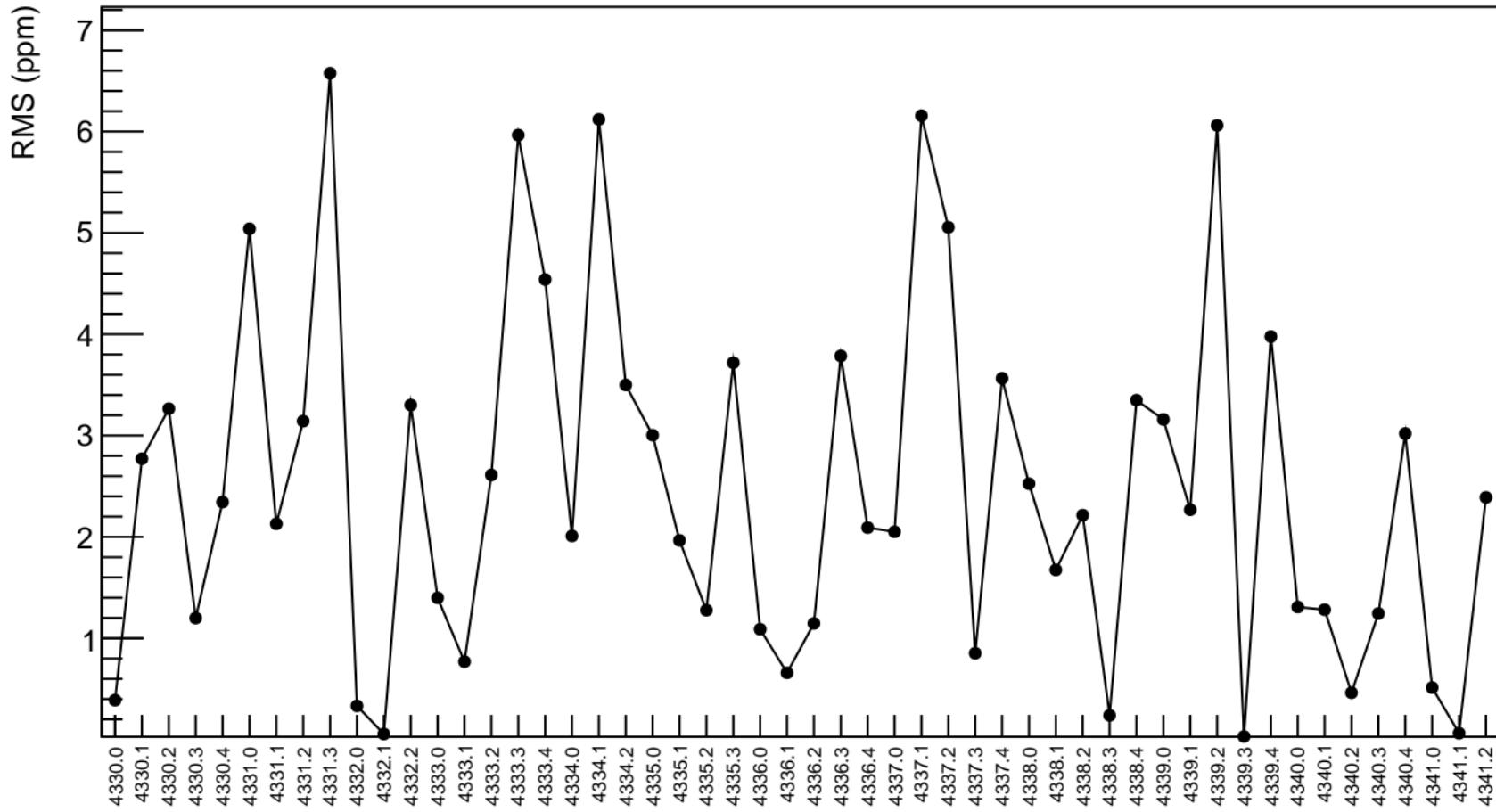
$\chi^2 / \text{ndf}$  5.947 / 51  
 $p_0$   $1.017 \pm 15.33$



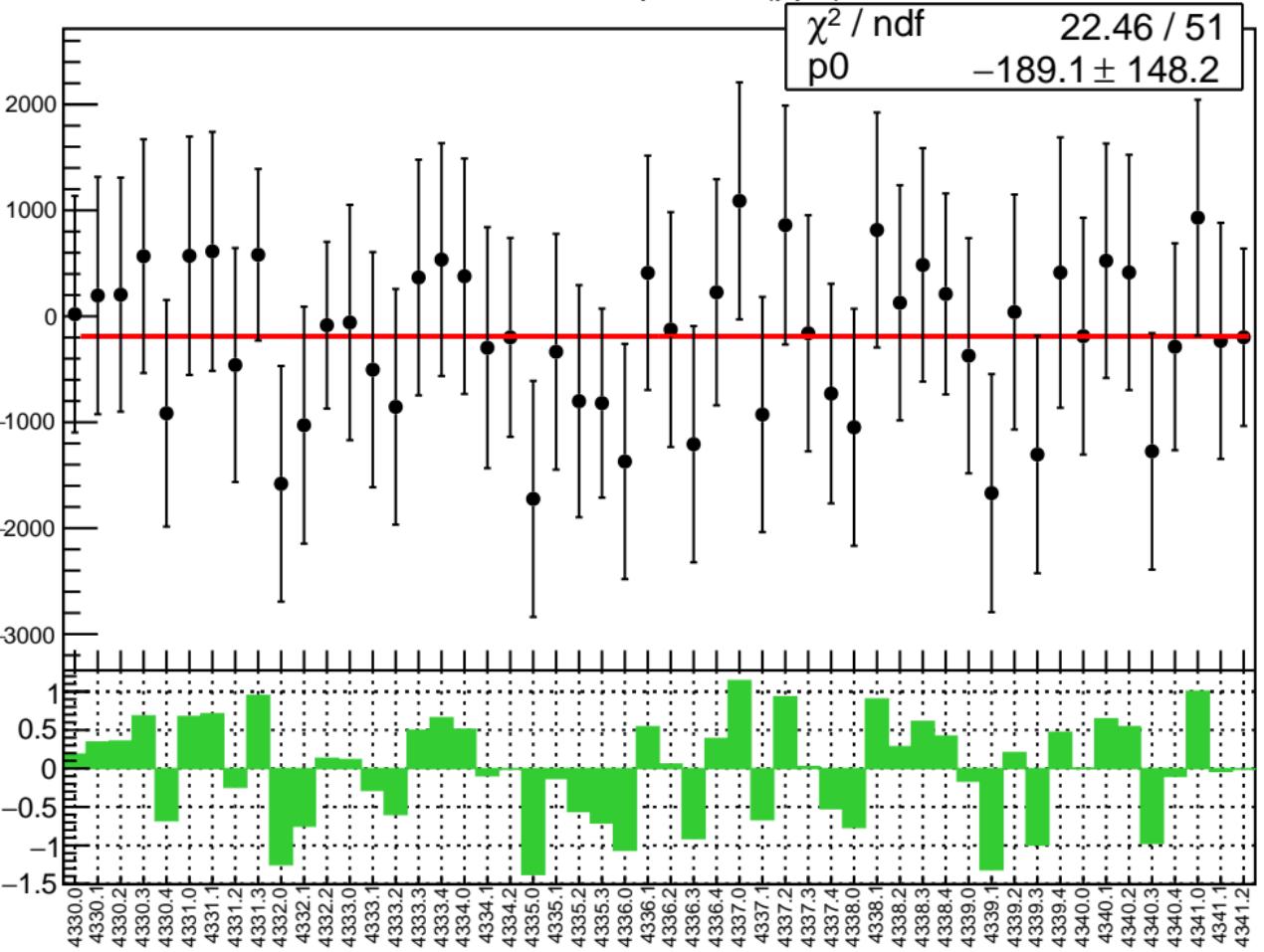
1D pull distribution



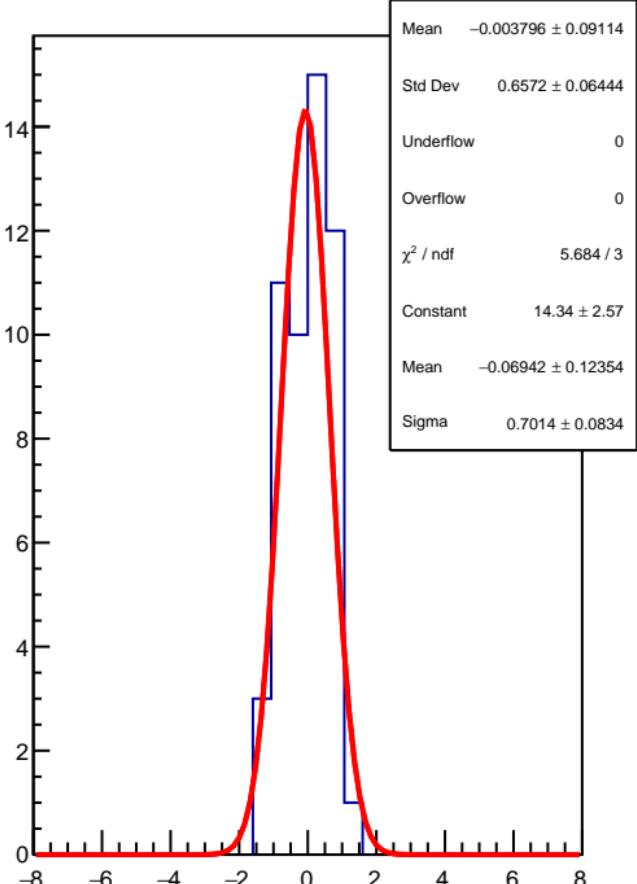
# corr\_us\_dd\_bpm1Y RMS (ppm)



corr\_us\_dd\_bpm16X (ppb)

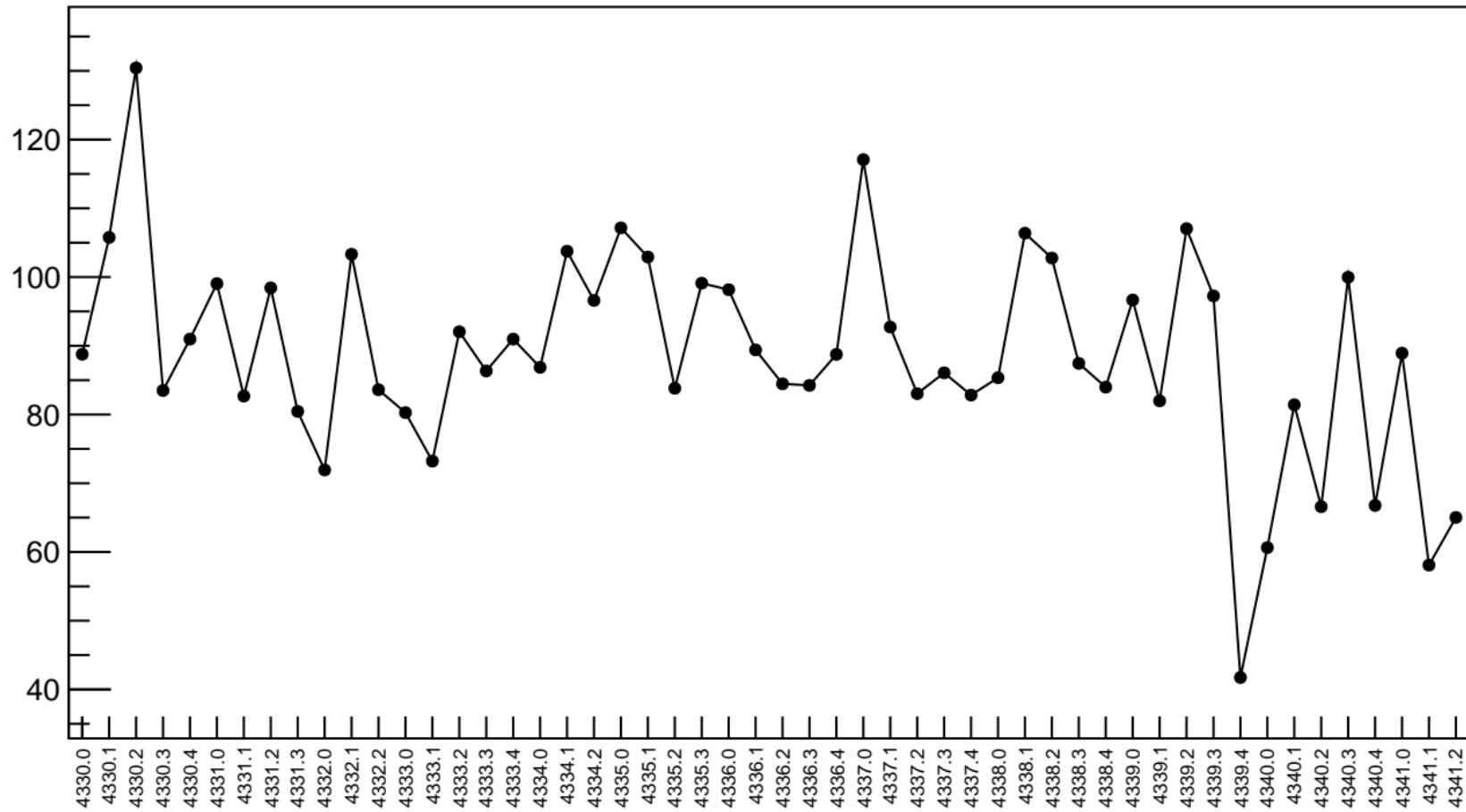


1D pull distribution



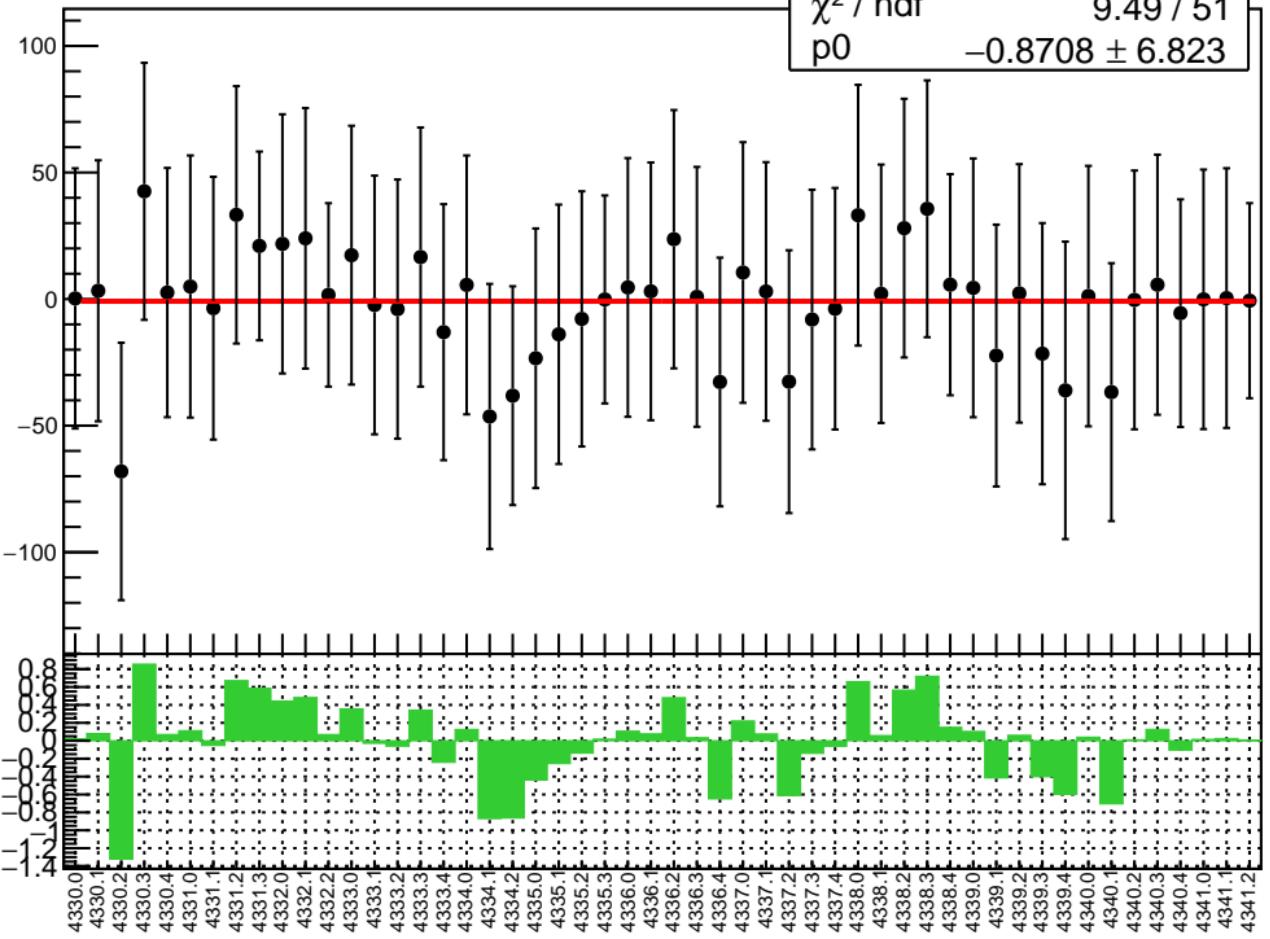
# corr\_us\_dd\_bpm16X RMS (ppm)

RMS (ppm)



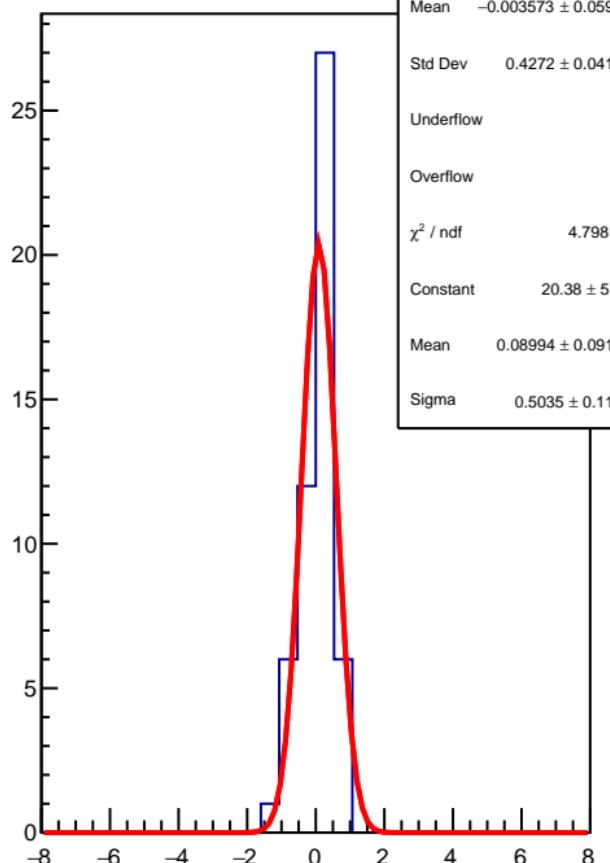
corr\_us\_dd\_bpm16Y (ppb)

$\chi^2 / \text{ndf}$  9.49 / 51  
 $p_0$   $-0.8708 \pm 6.823$

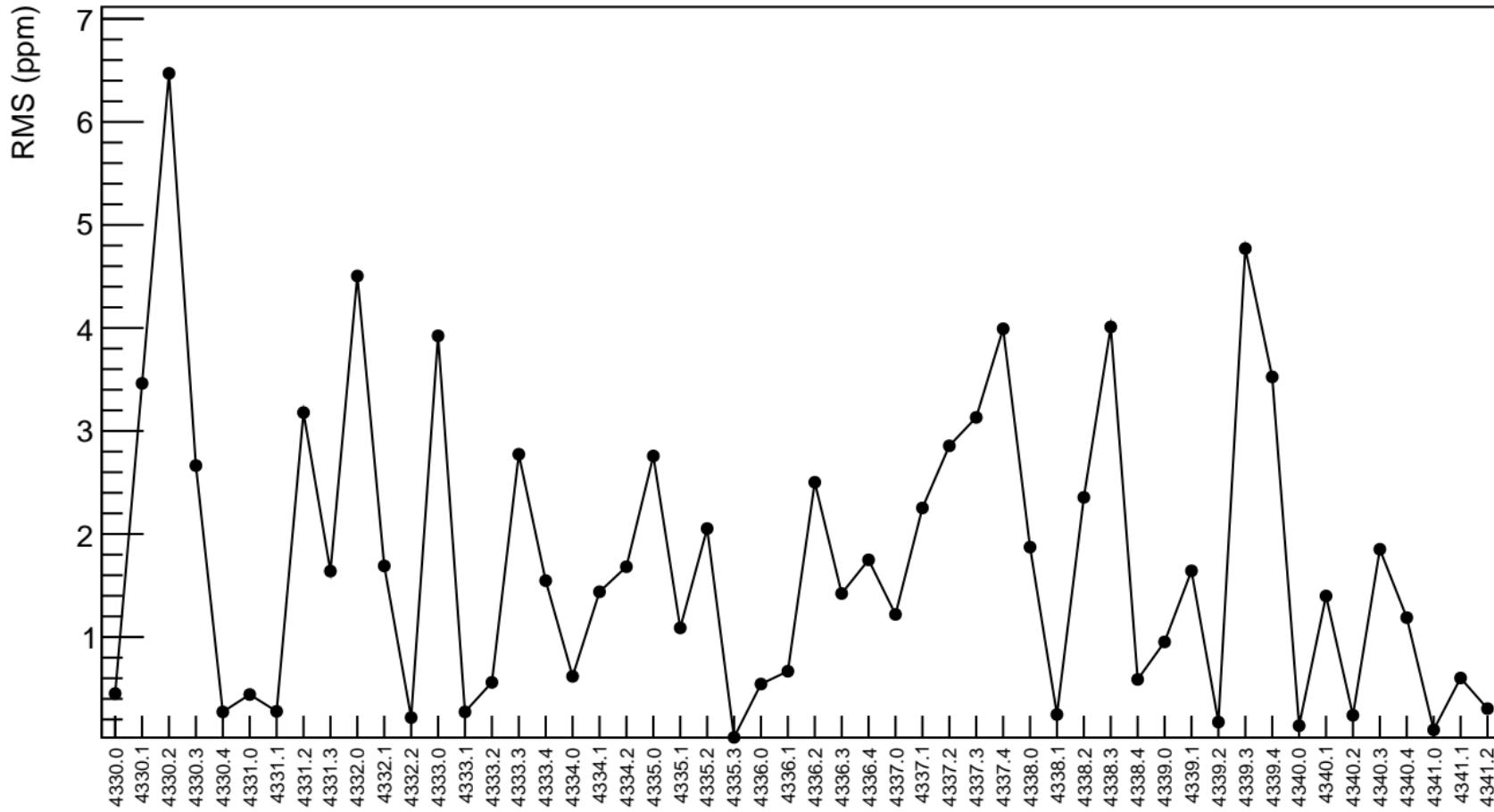


1D pull distribution

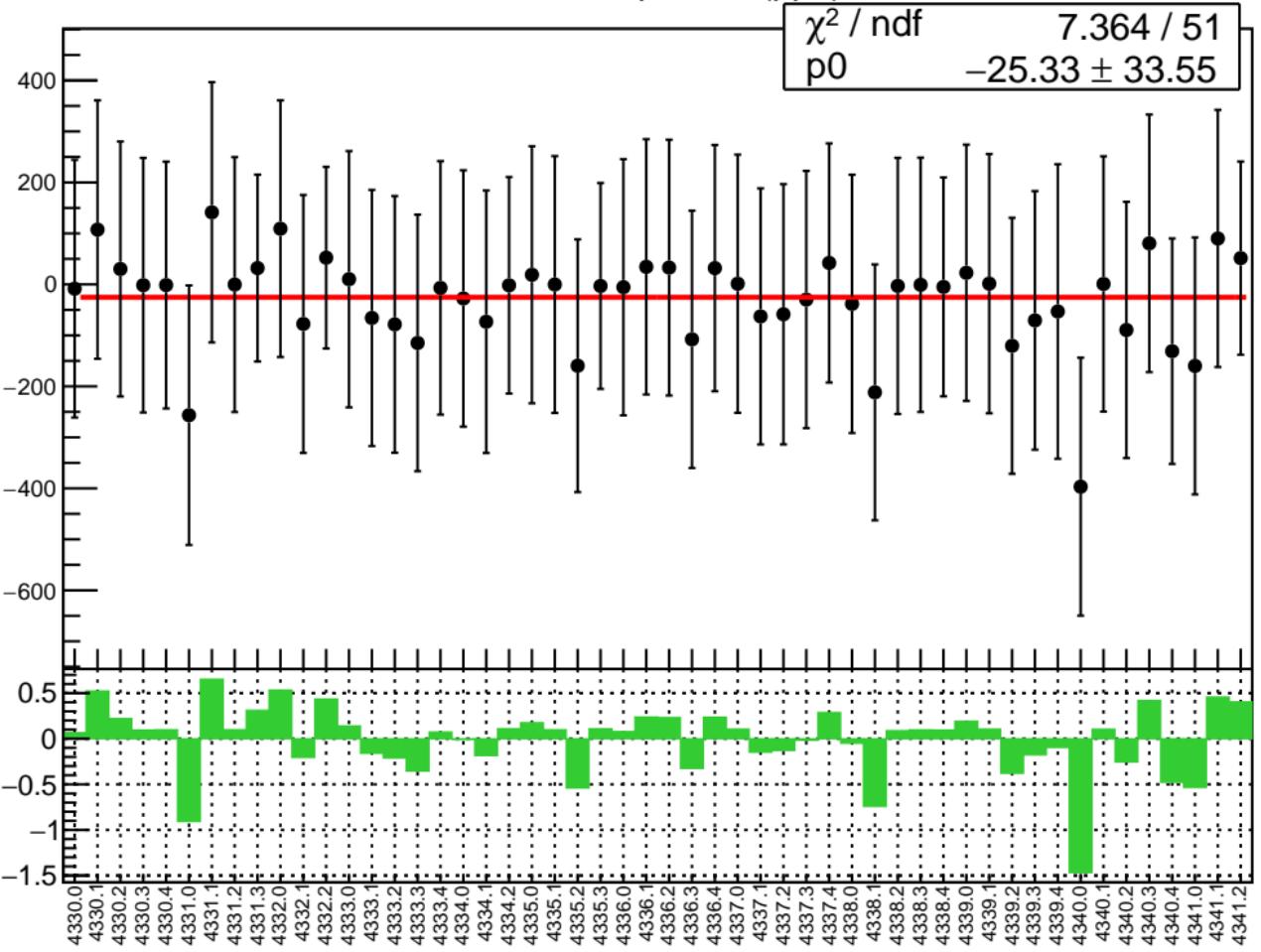
Mean  $-0.003573 \pm 0.05924$   
Std Dev  $0.4272 \pm 0.04189$   
Underflow 0  
Overflow 0  
 $\chi^2 / \text{ndf}$  4.798 / 2  
Constant  $20.38 \pm 5.13$   
Mean  $0.08994 \pm 0.09157$   
Sigma  $0.5035 \pm 0.1140$



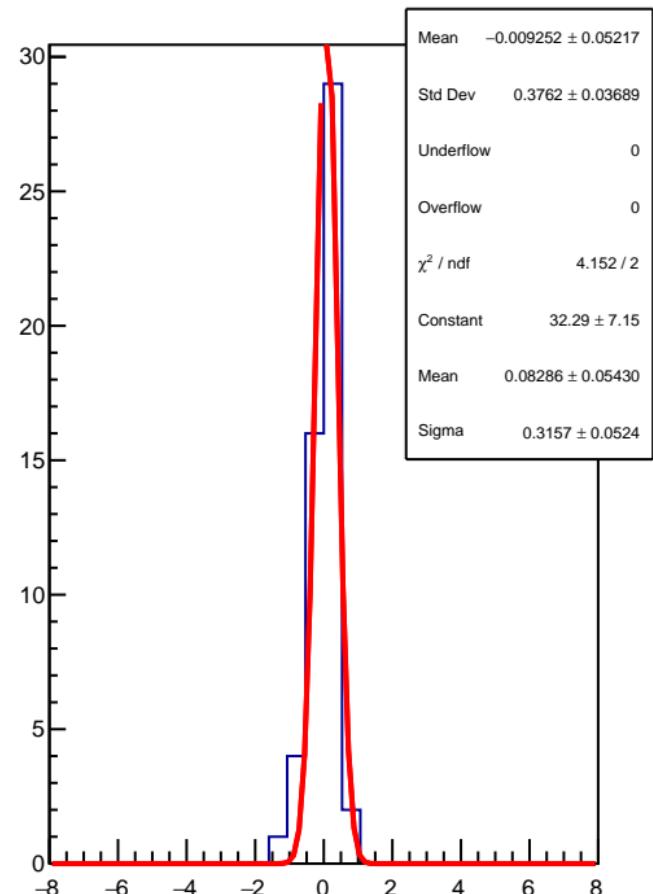
# corr\_us\_dd\_bpm16Y RMS (ppm)



corr\_us\_dd\_bpm12X (ppb)

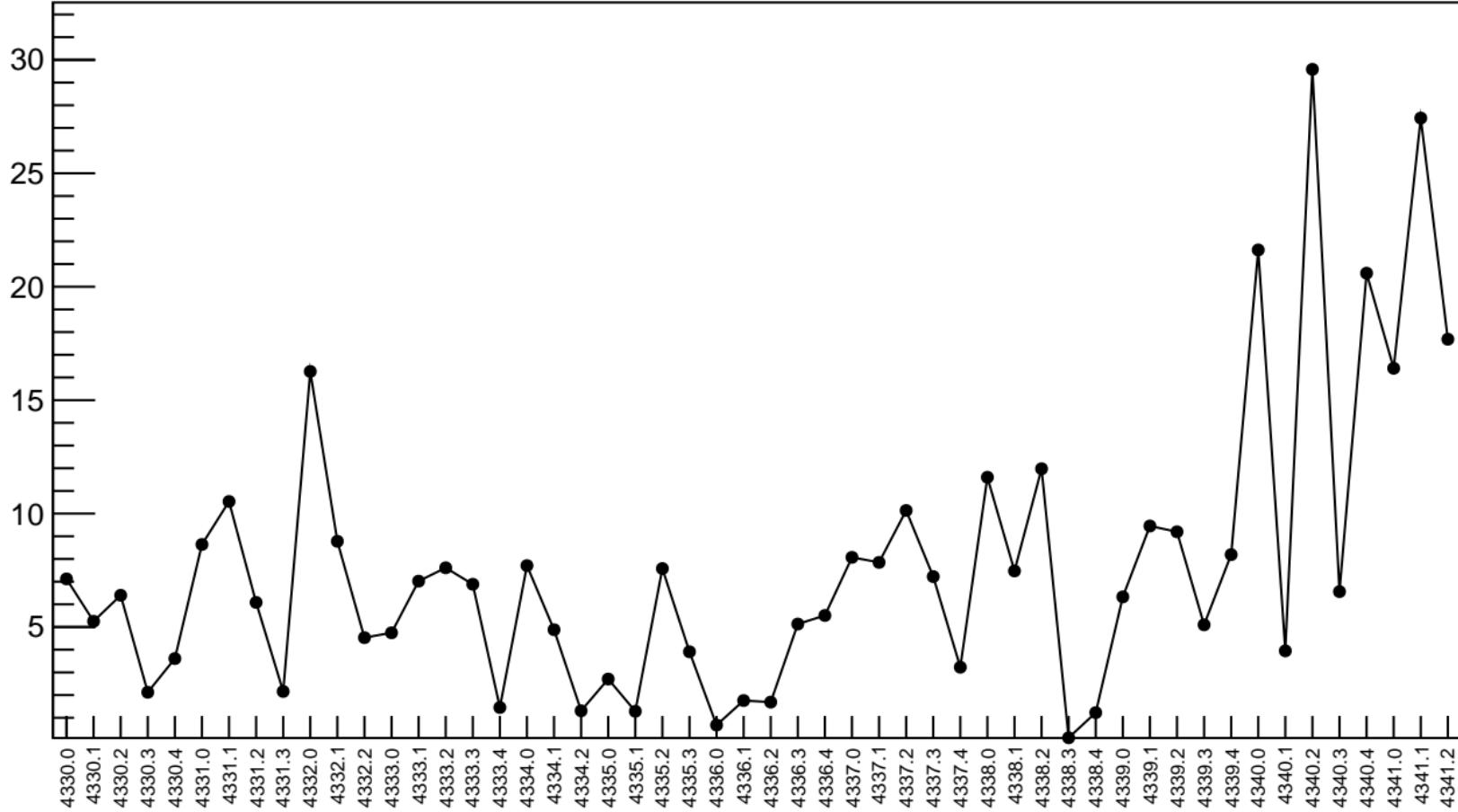


1D pull distribution

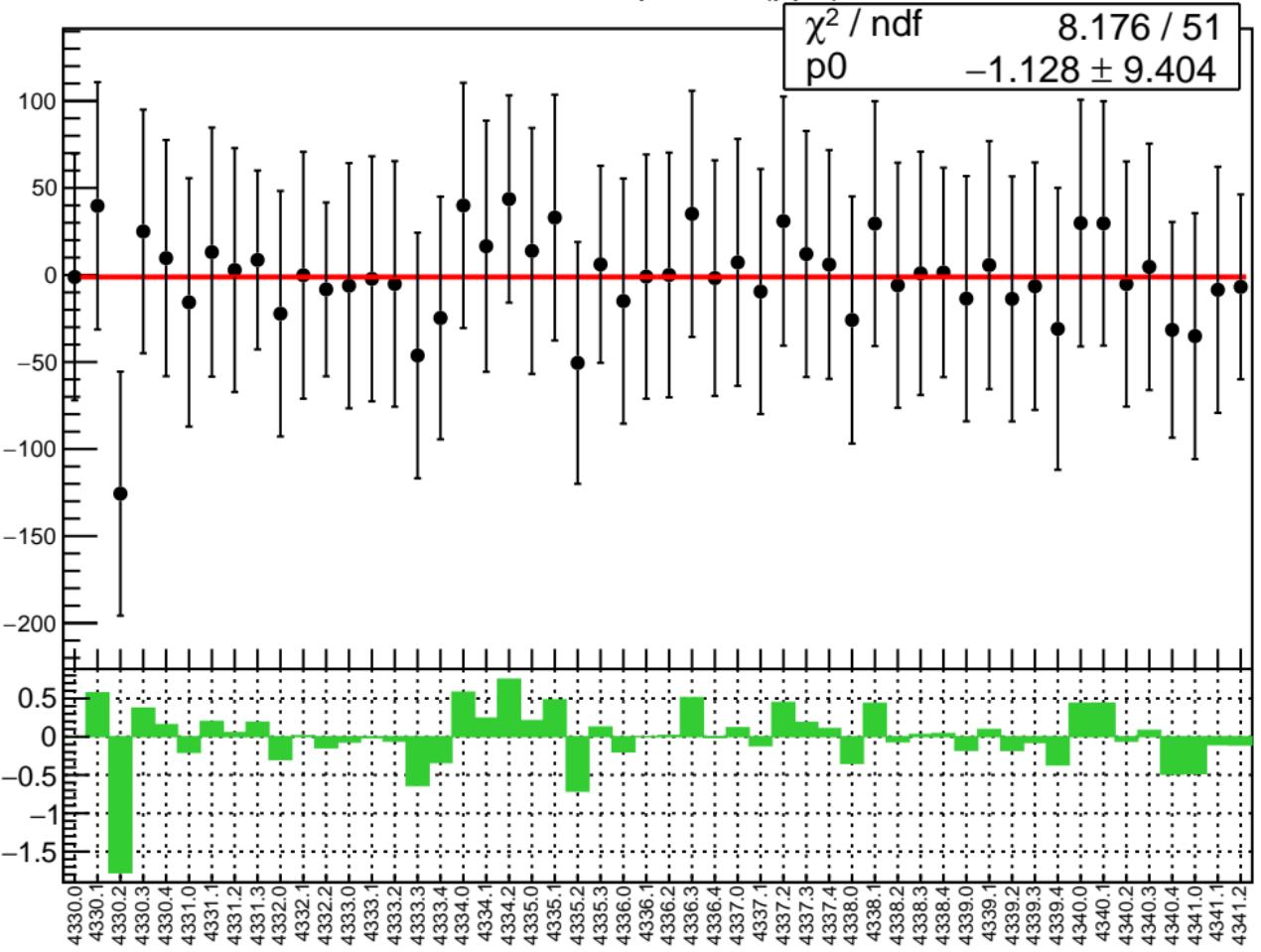


# corr\_us\_dd\_bpm12X RMS (ppm)

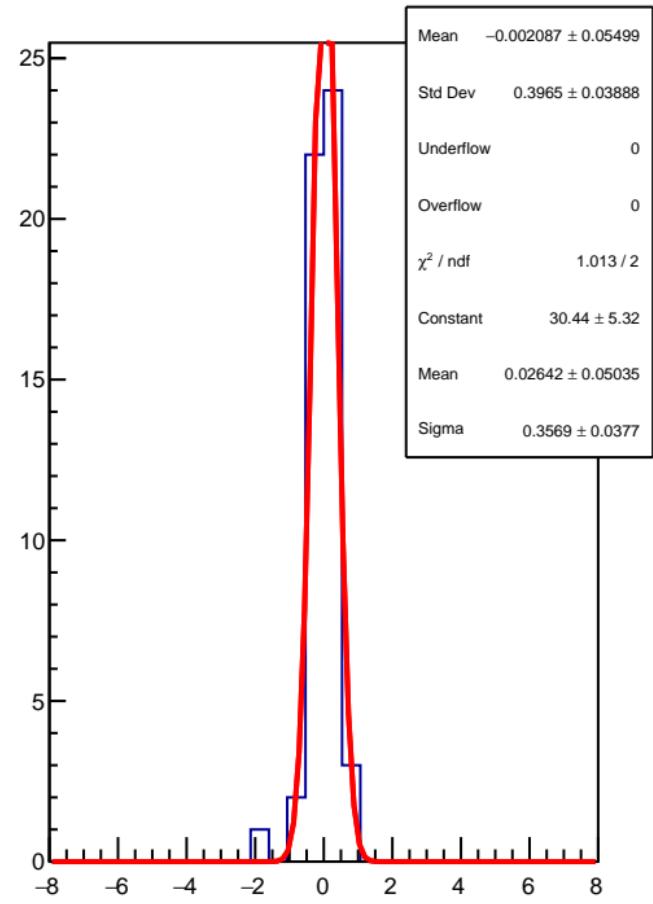
RMS (ppm)



corr\_us\_dd\_bpm12Y (ppb)

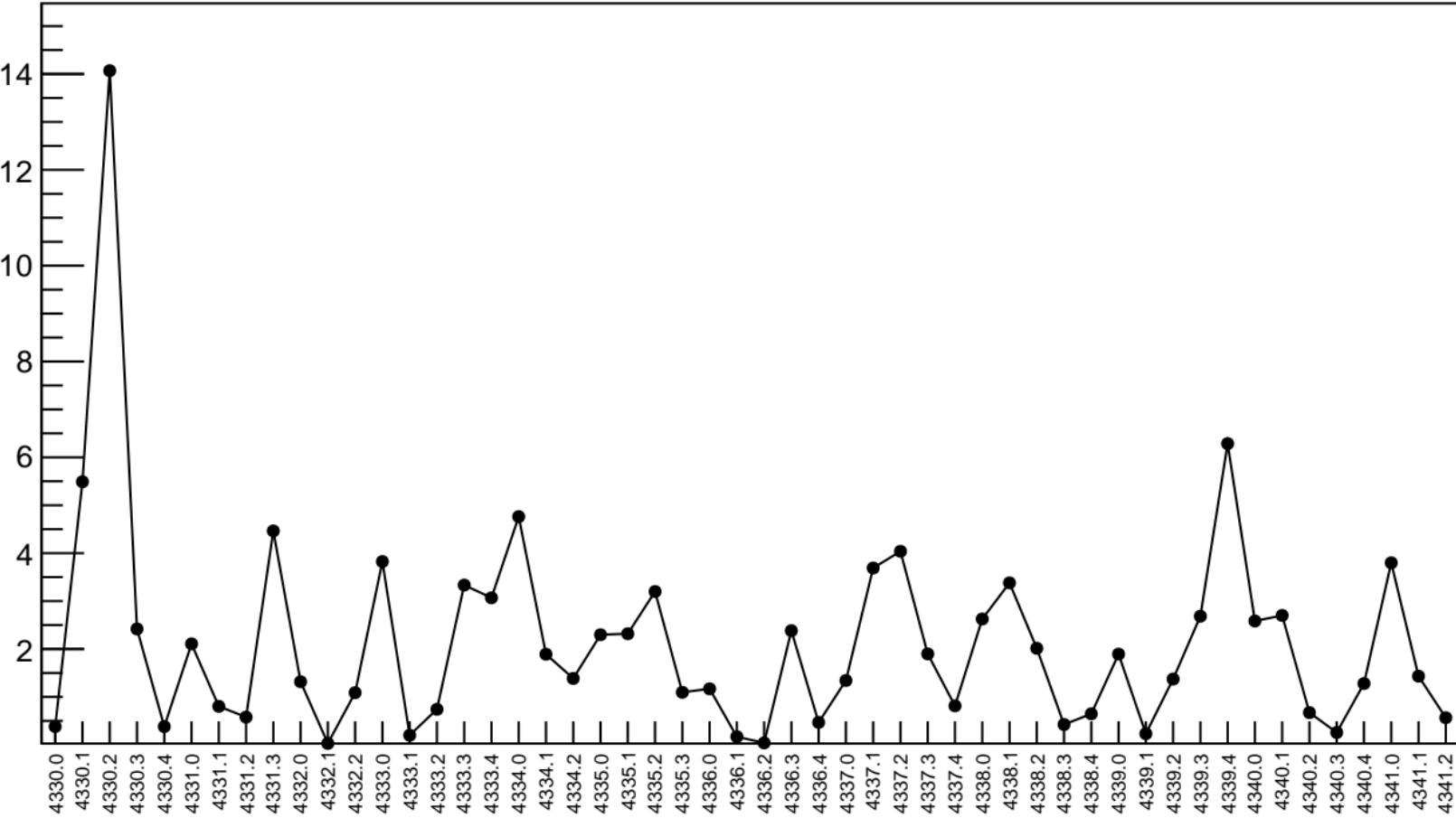


1D pull distribution

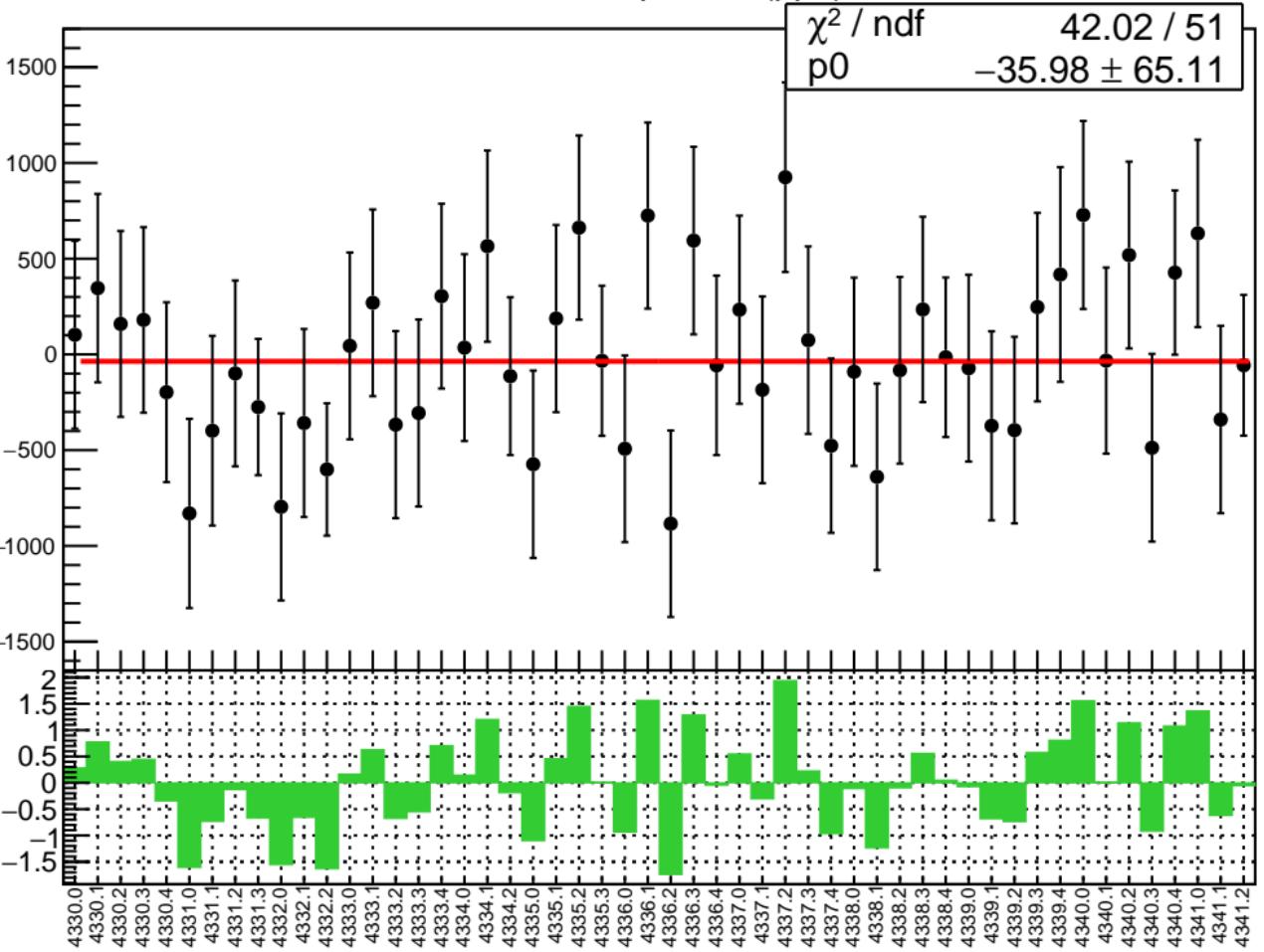


# corr\_us\_dd\_bpm12Y RMS (ppm)

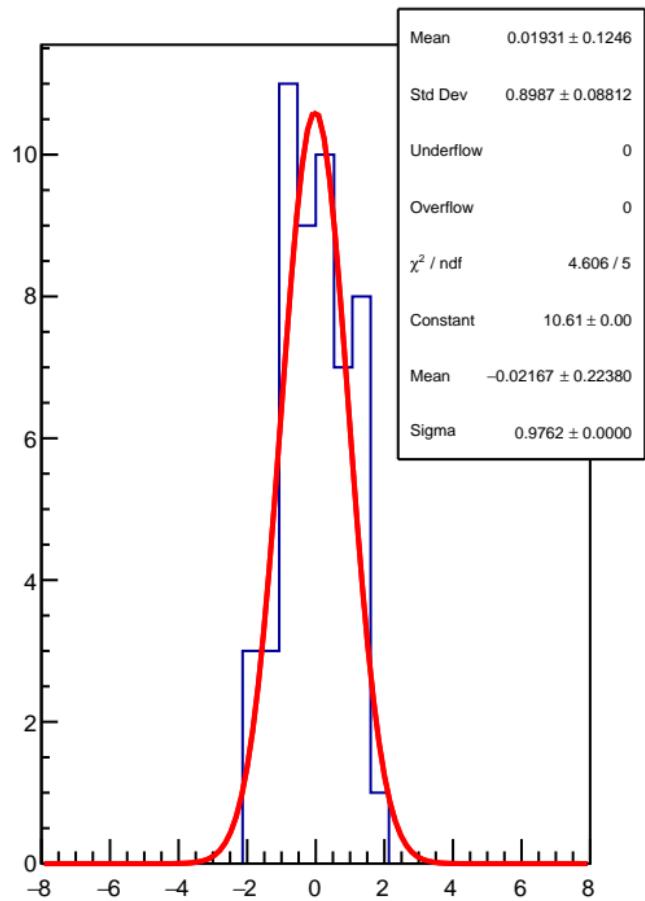
RMS (ppm)



corr\_us\_dd\_bpm11X (ppb)

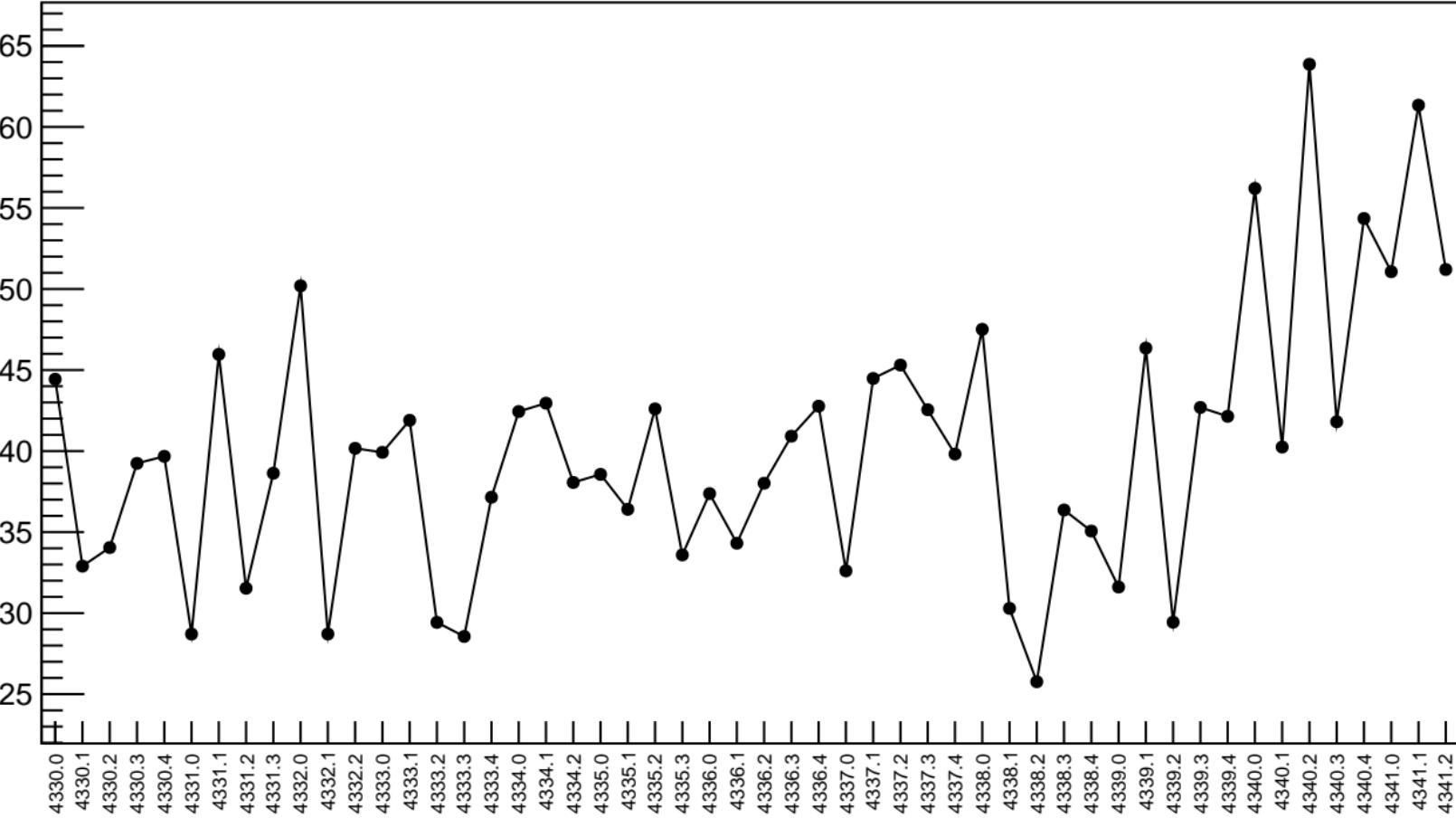


1D pull distribution

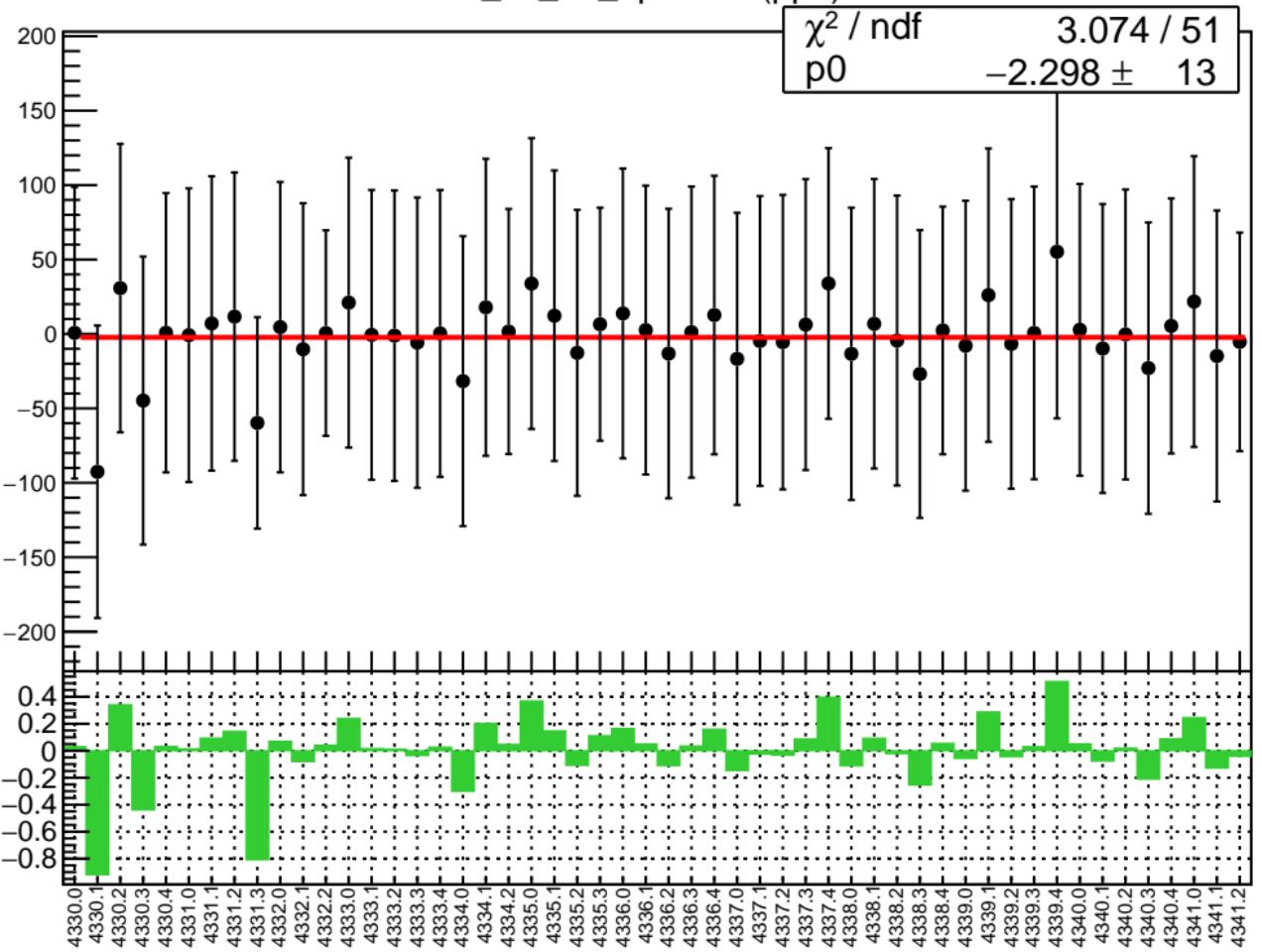


# corr\_us\_dd\_bpm11X RMS (ppm)

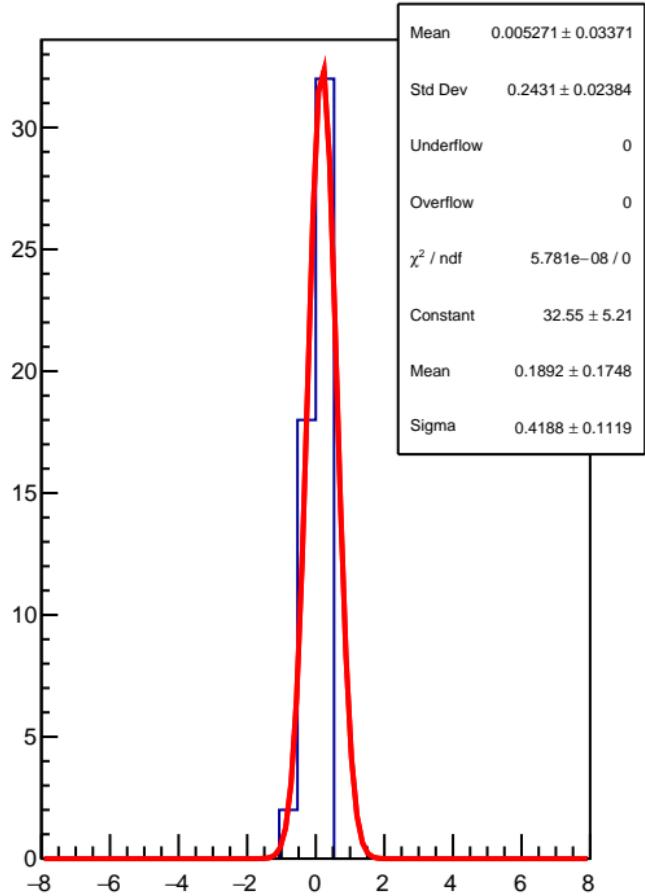
RMS (ppm)



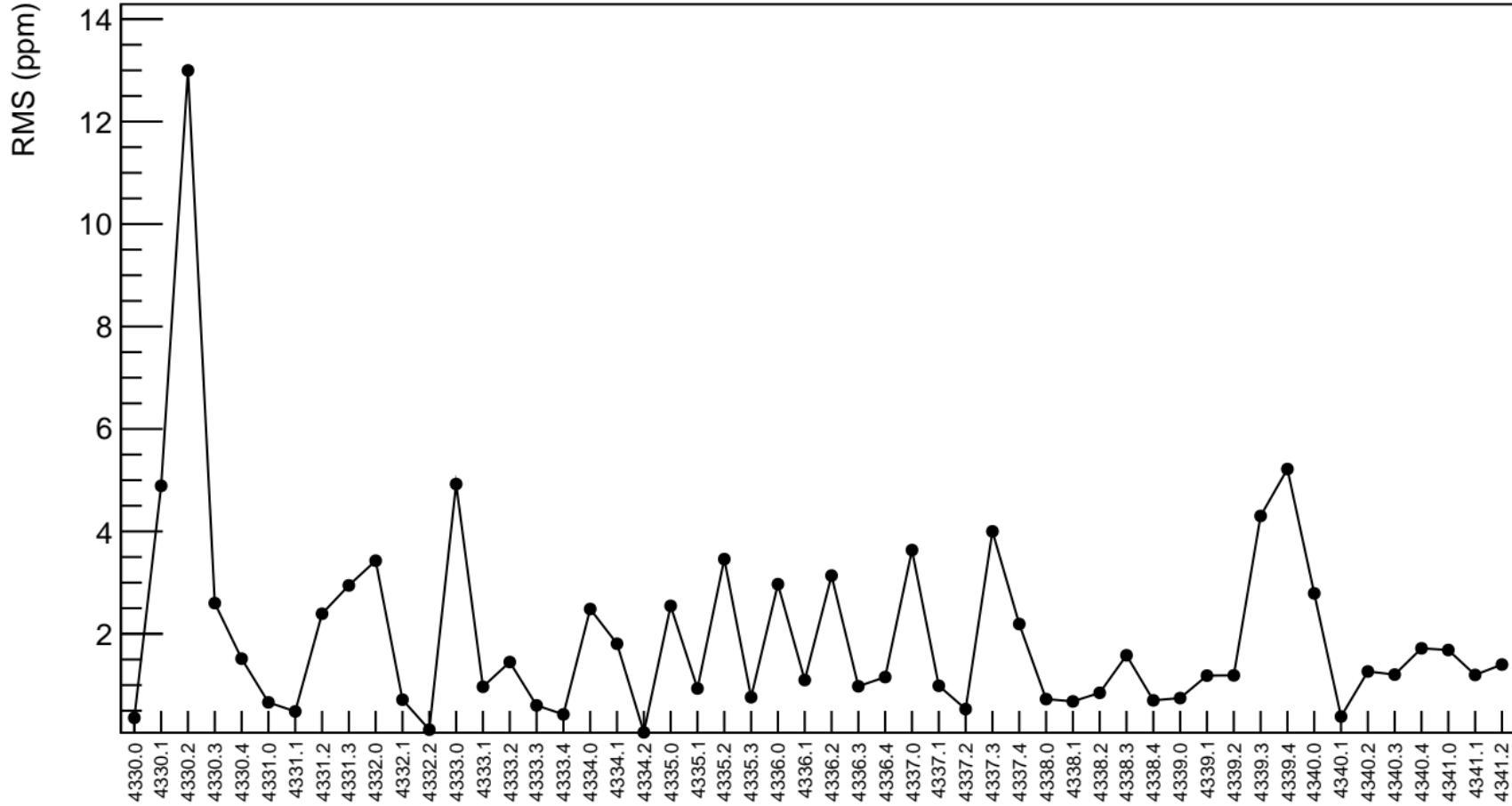
corr\_us\_dd\_bpm11Y (ppb)



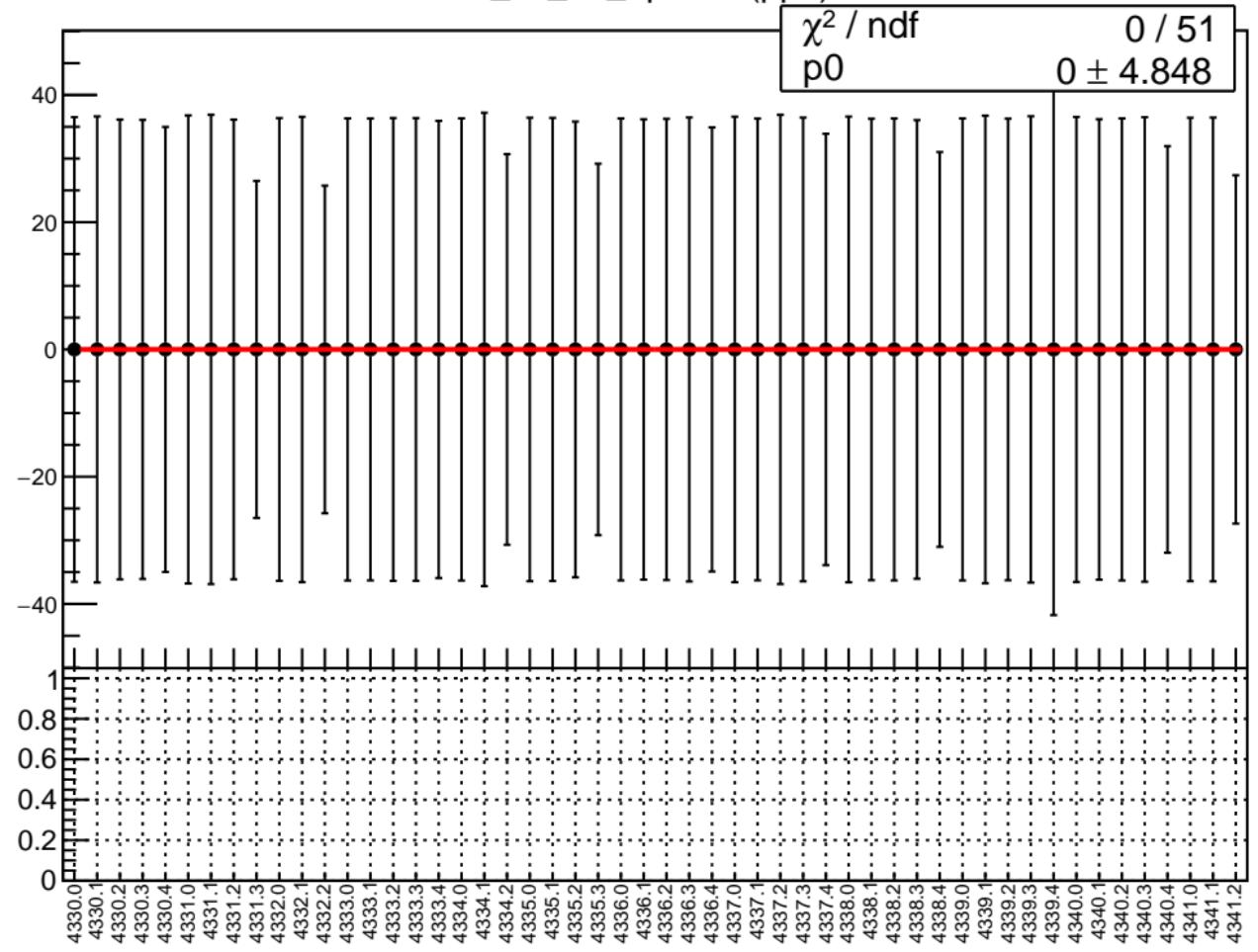
1D pull distribution



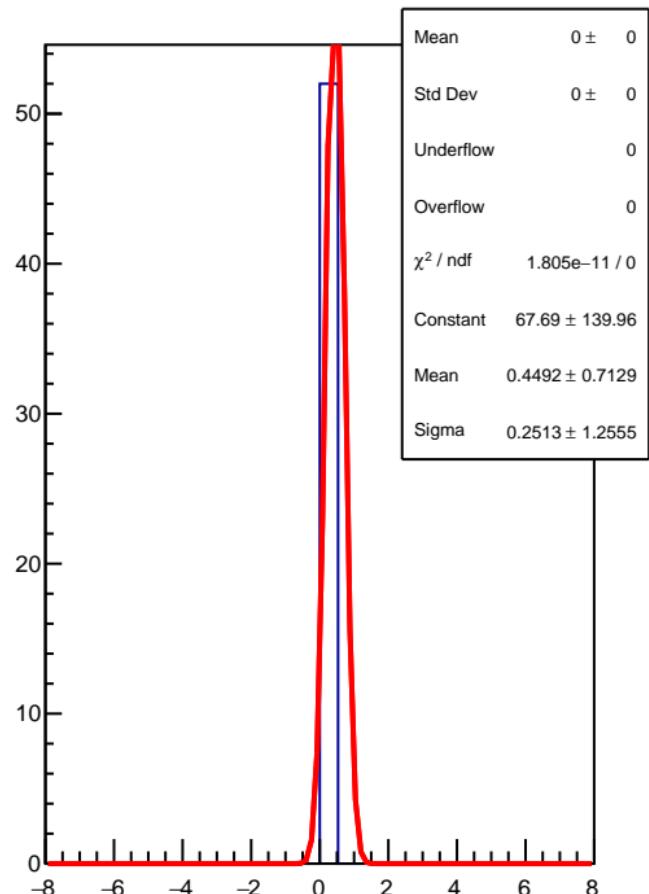
# corr\_us\_dd\_bpm11Y RMS (ppm)



corr\_us\_dd\_bpm8X (ppb)

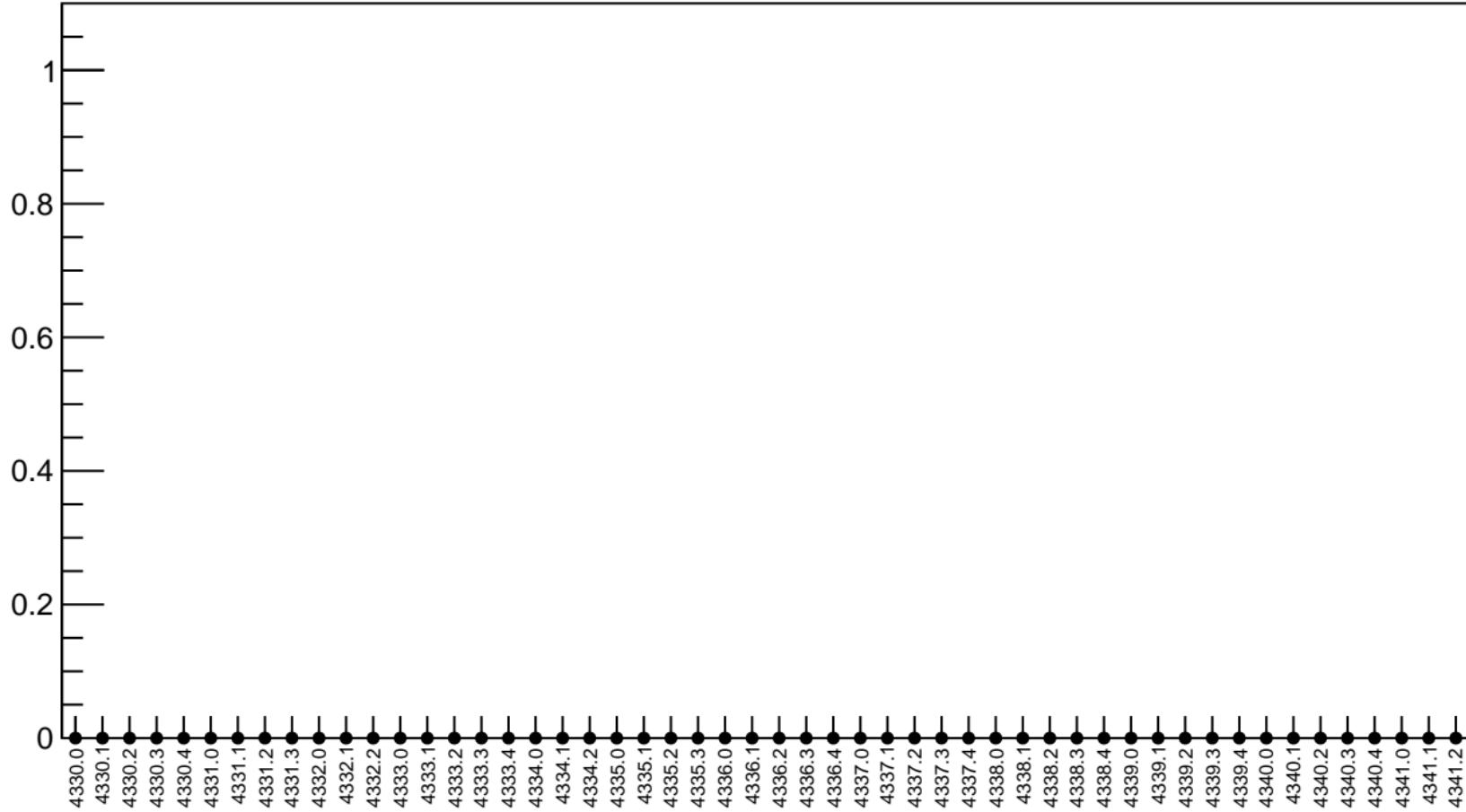


1D pull distribution

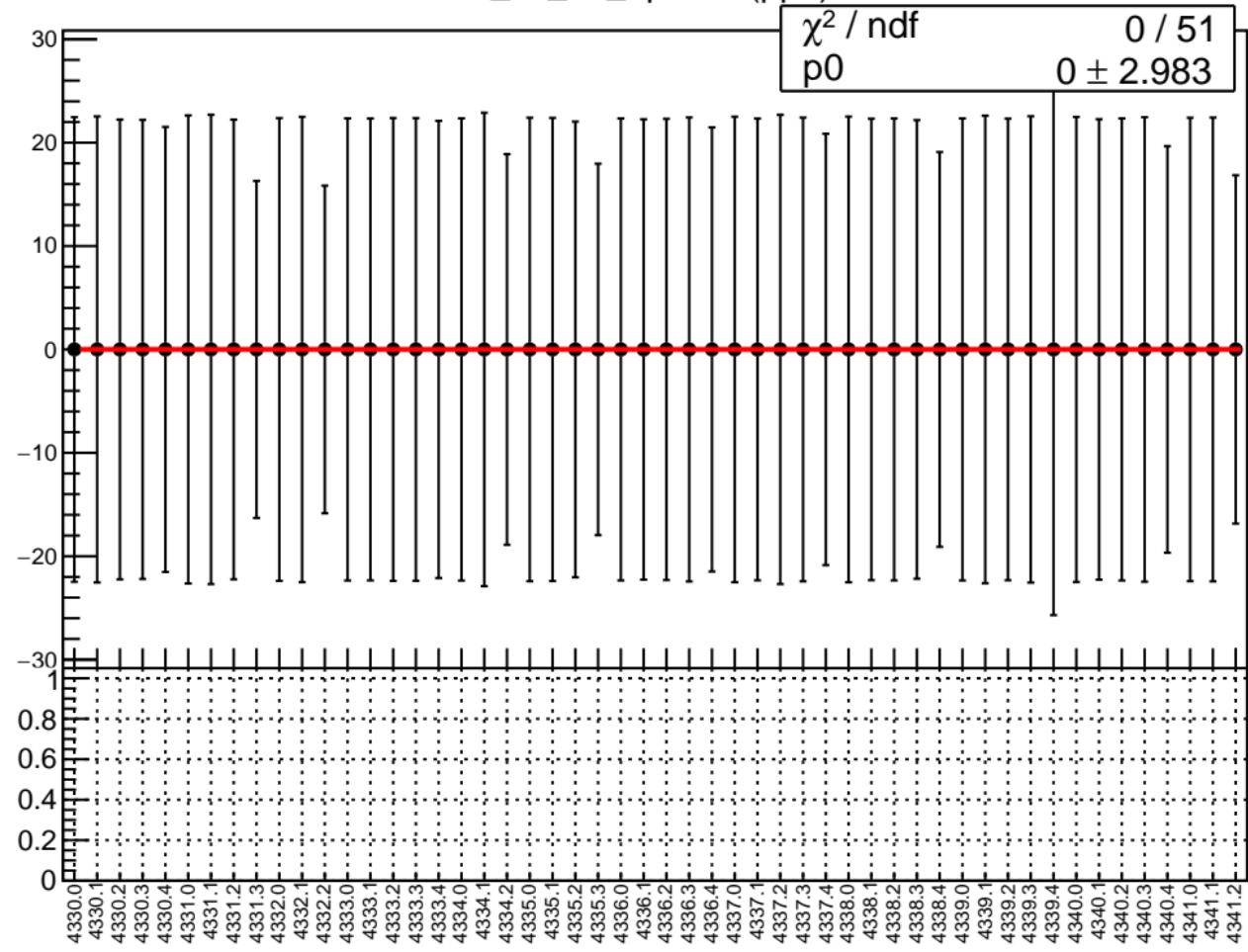


# corr\_us\_dd\_bpm8X RMS (ppm)

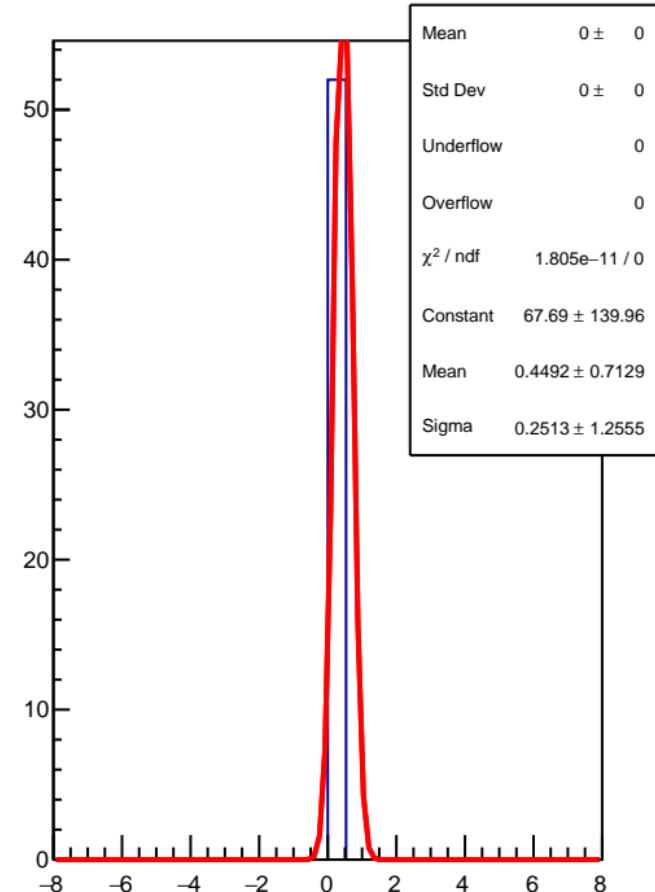
RMS (ppm)



corr\_us\_dd\_bpm8Y (ppb)

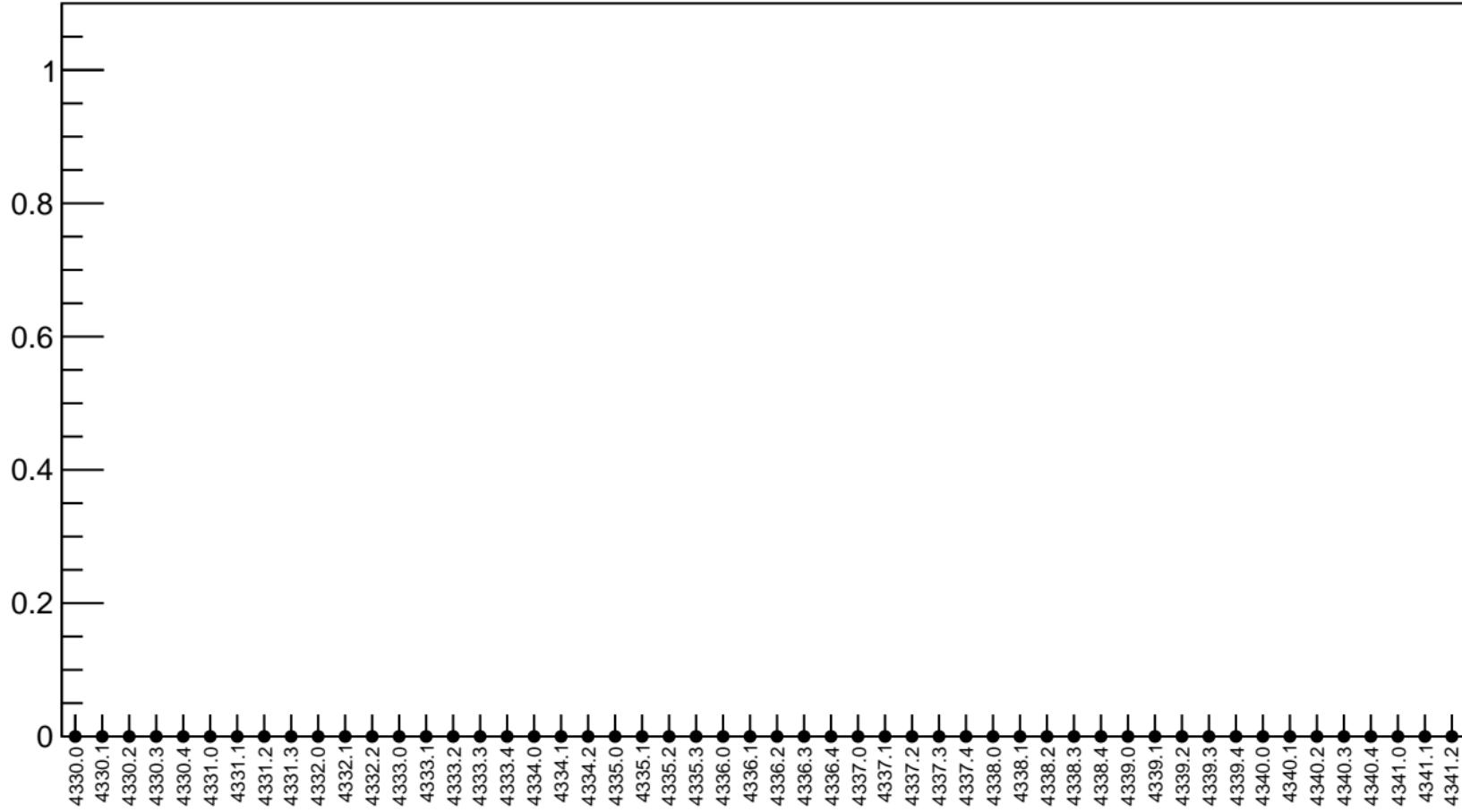


1D pull distribution

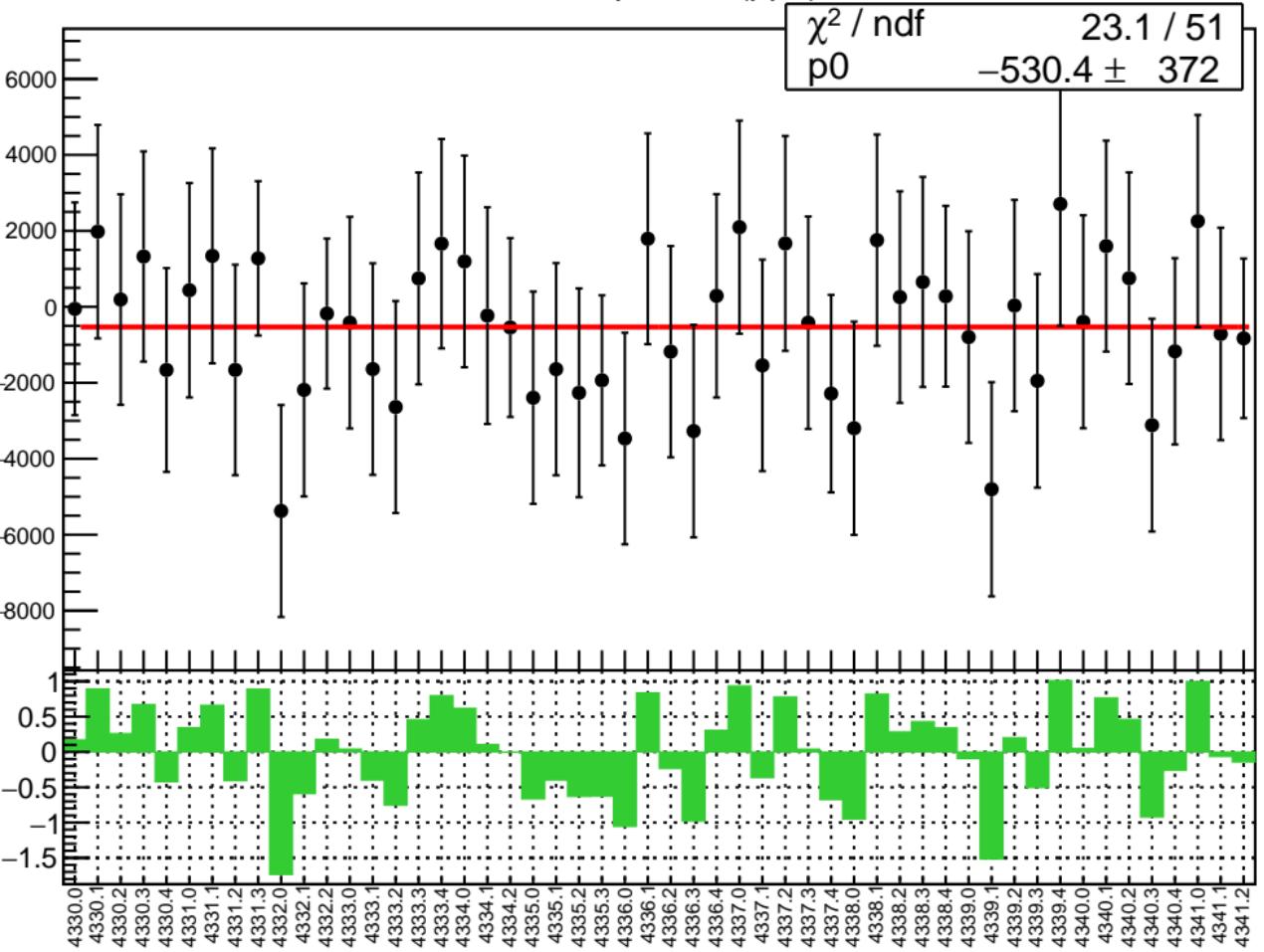


# corr\_us\_dd\_bpm8Y RMS (ppm)

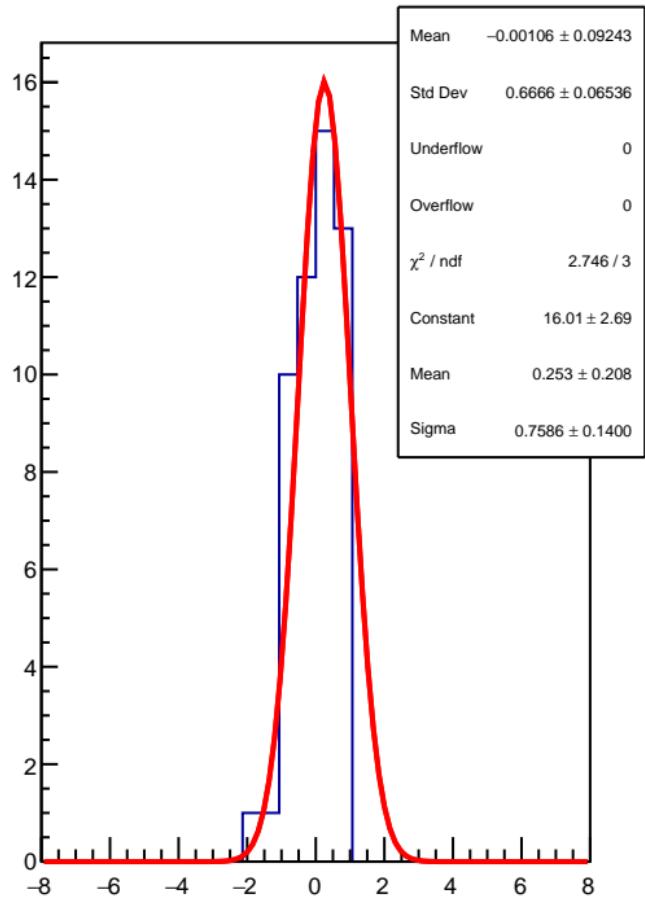
RMS (ppm)



corr\_usl\_bpm4eX (ppb)

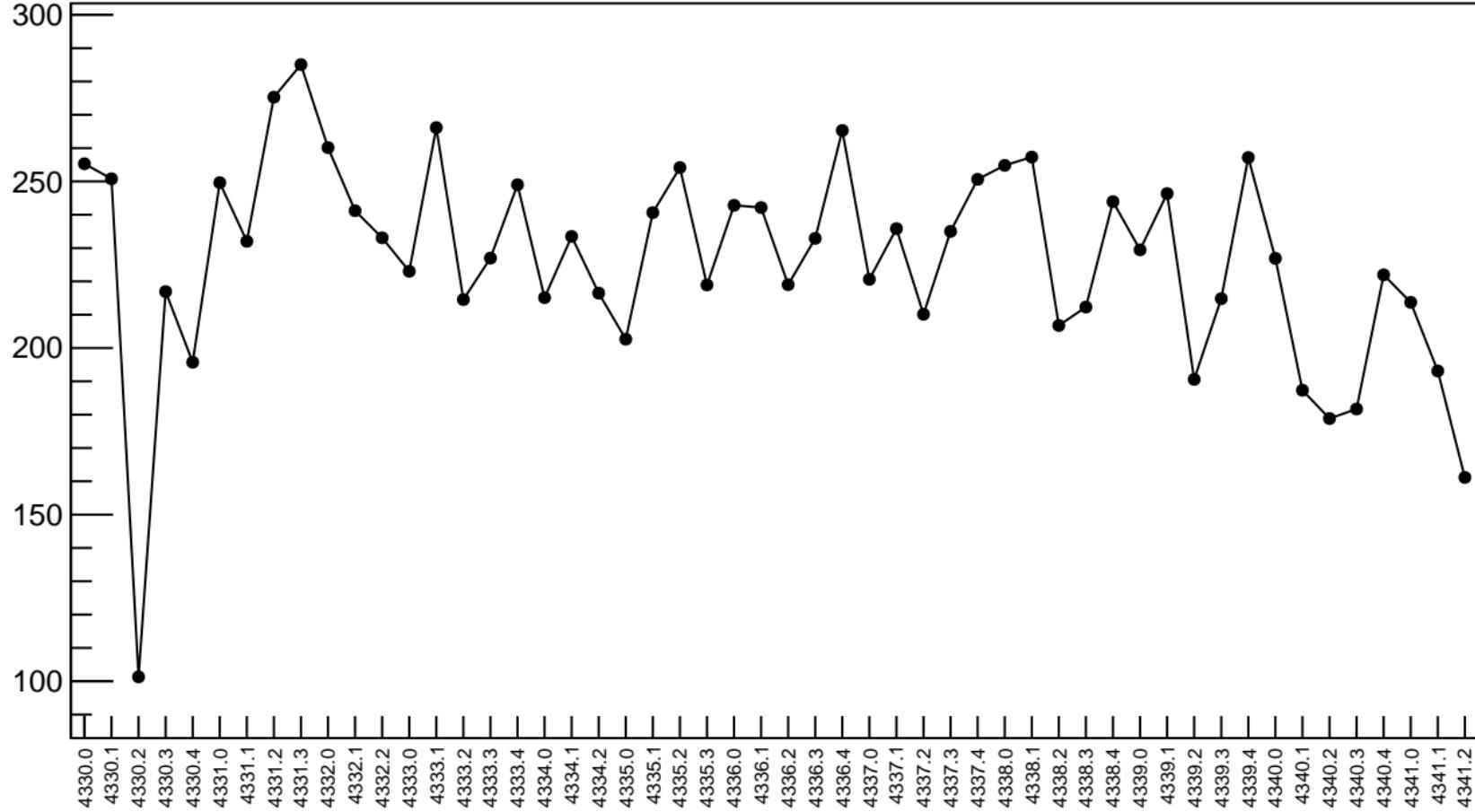


1D pull distribution

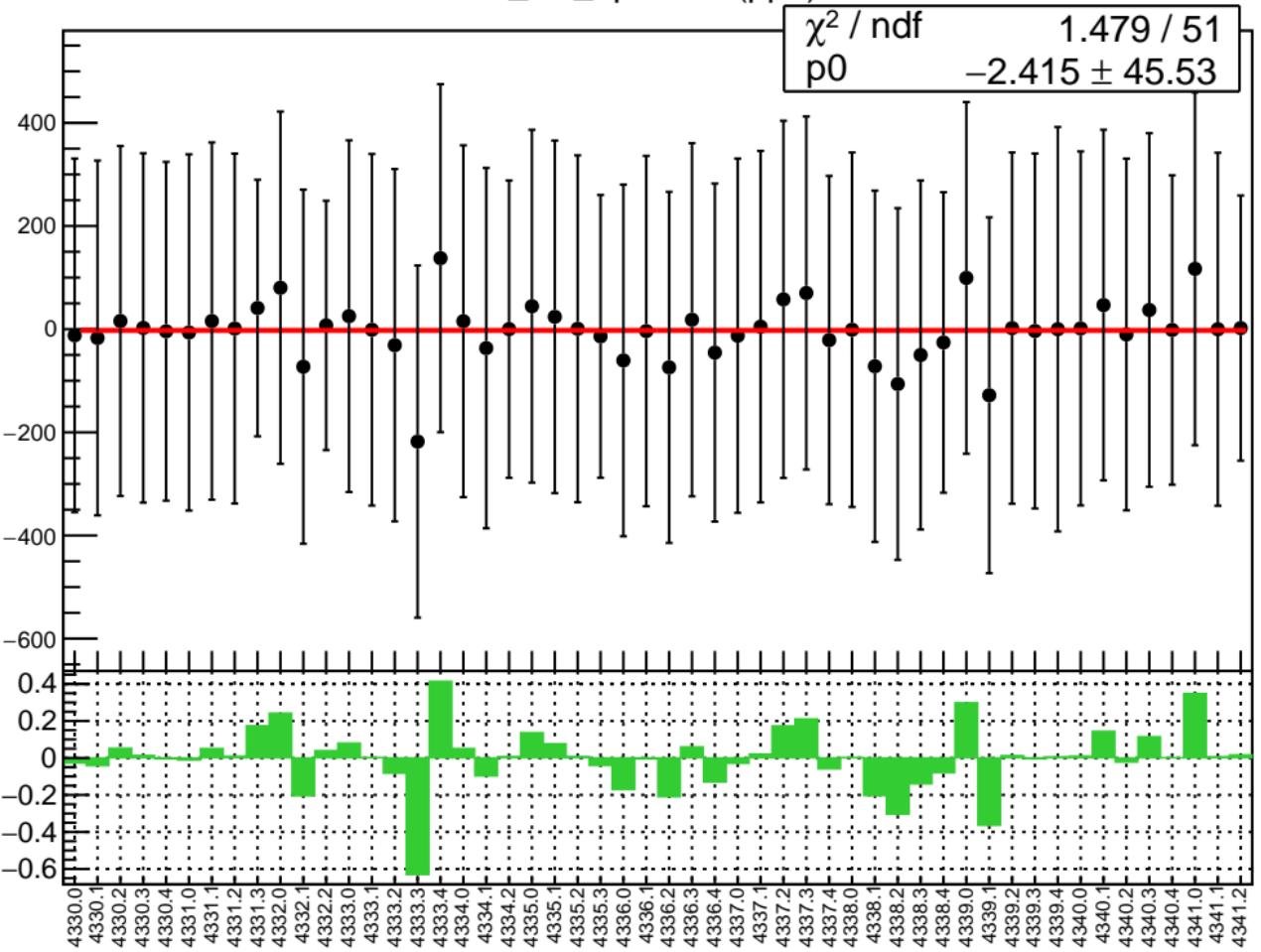


# corr\_usl\_bpm4eX RMS (ppm)

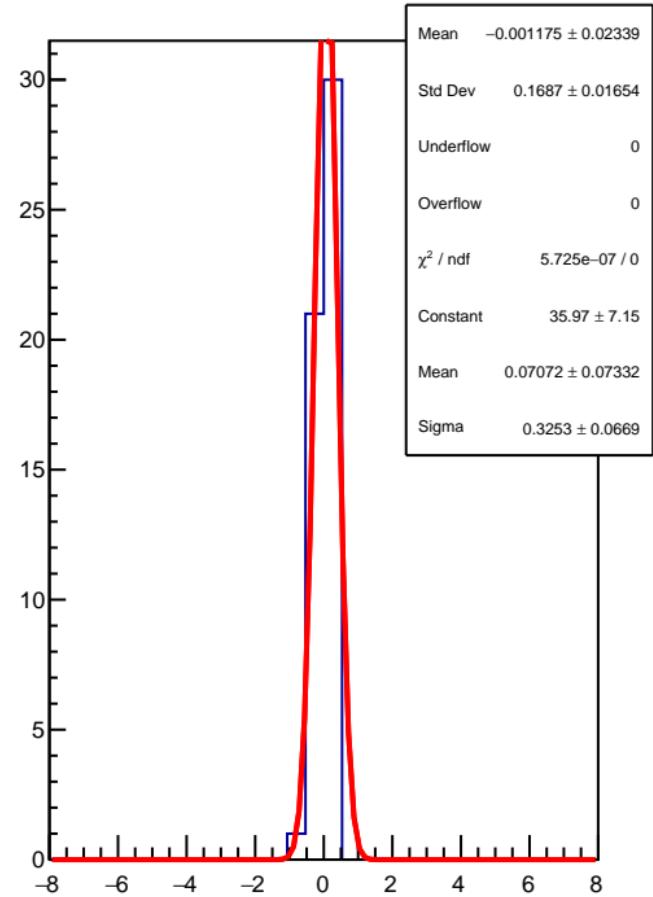
RMS (ppm)



corr\_usl\_bpm4eY (ppb)

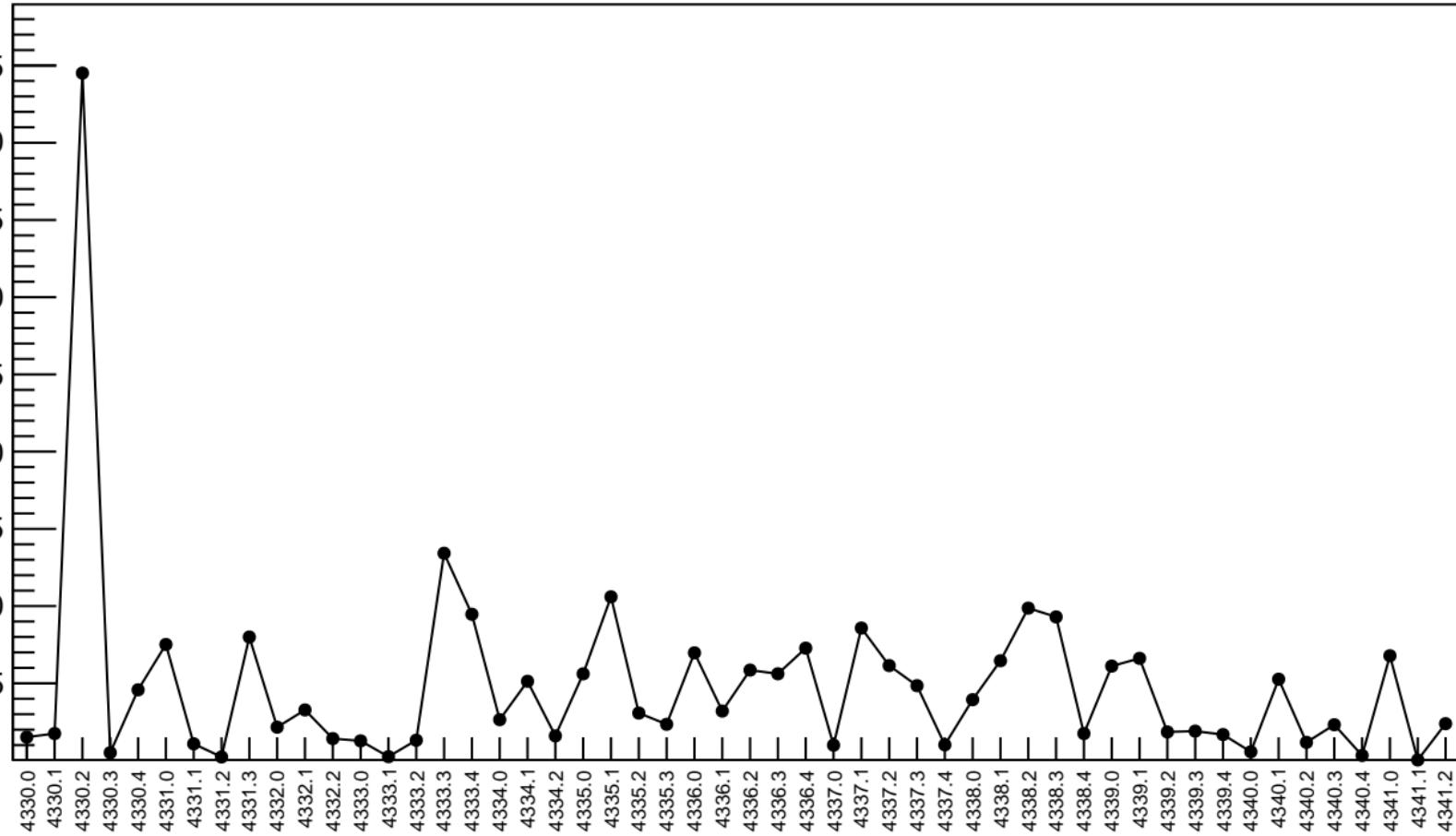


1D pull distribution



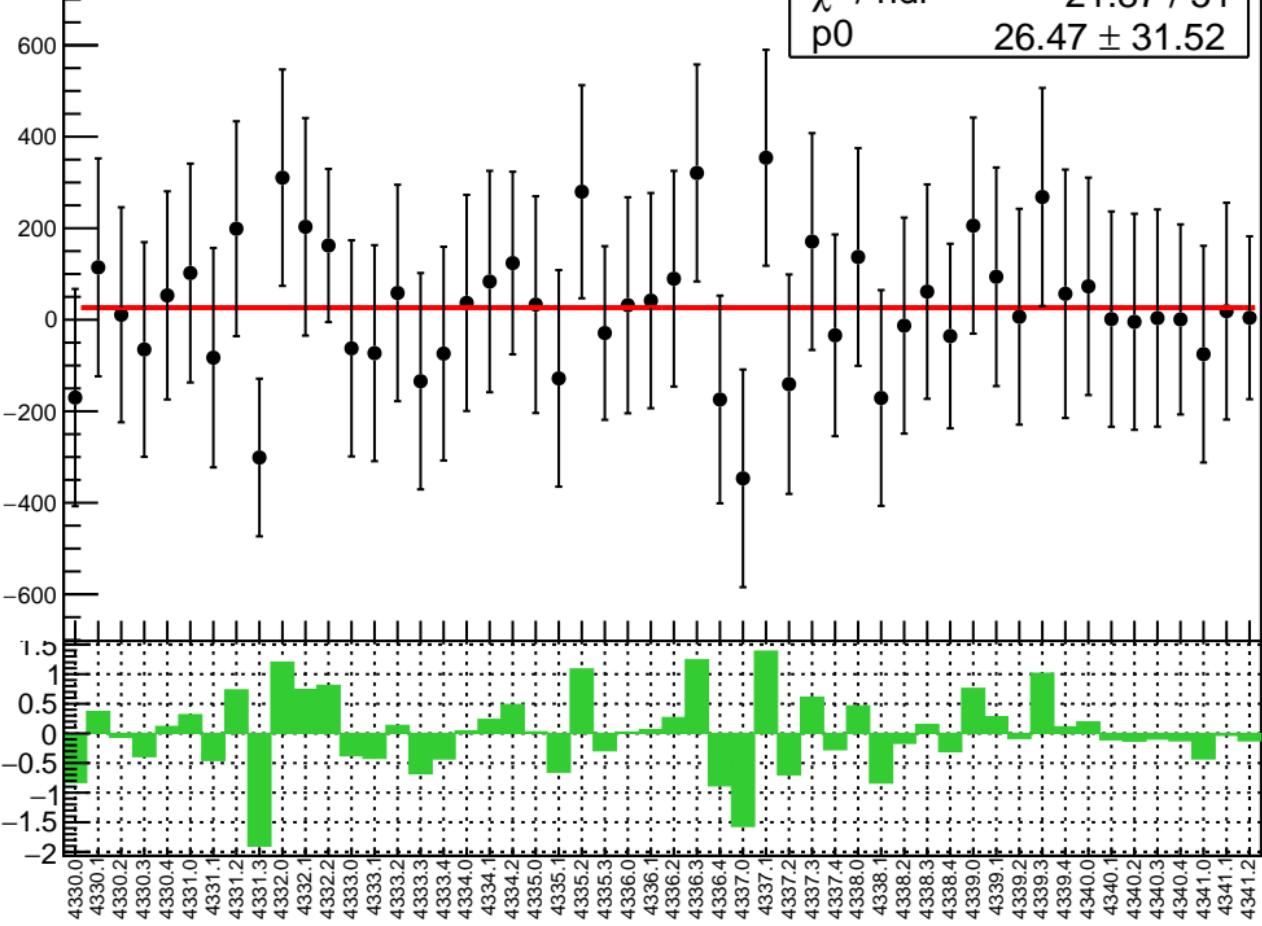
# corr\_usl\_bpm4eY RMS (ppm)

RMS (ppm)

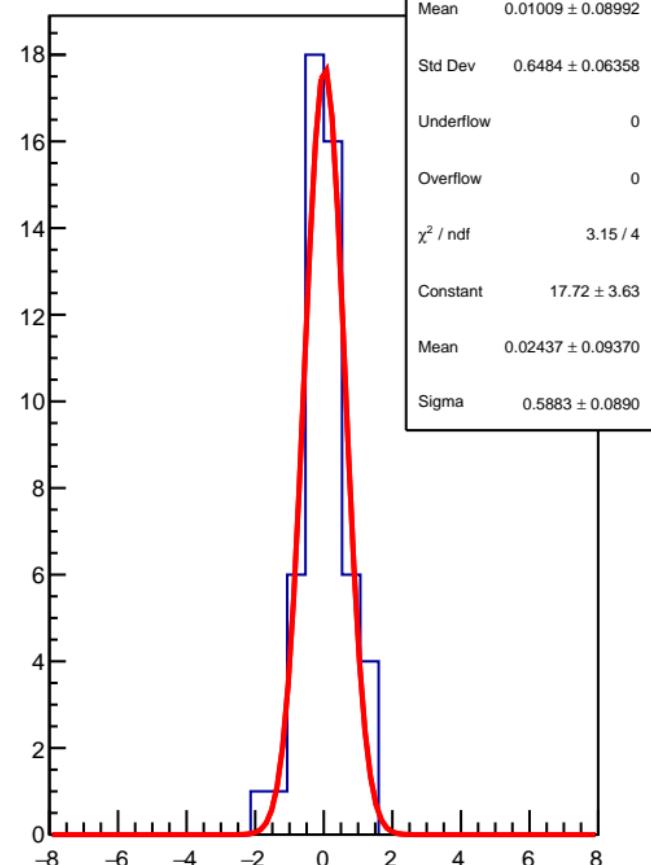


corr\_usl\_bpm4aX (ppb)

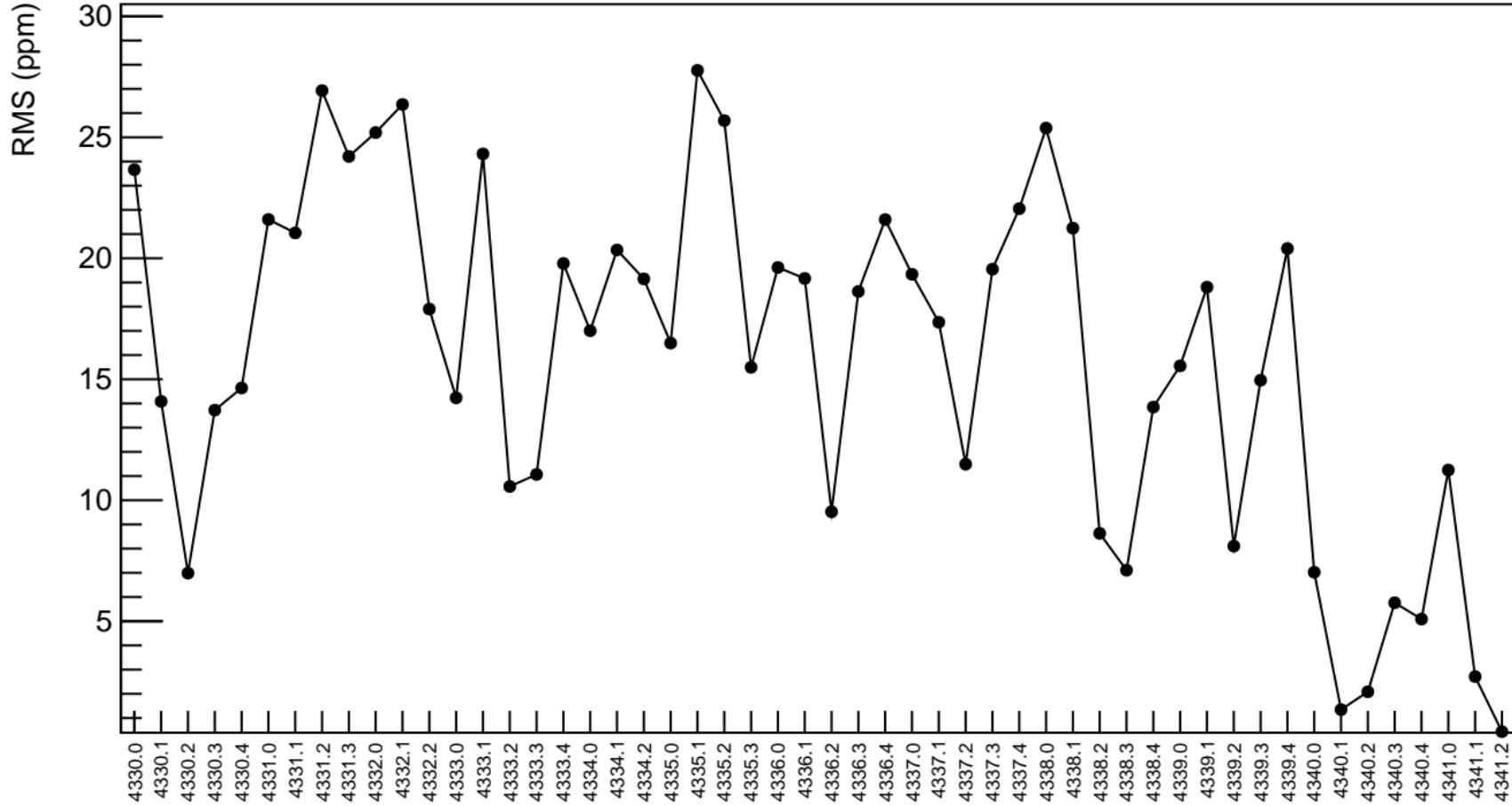
$\chi^2 / \text{ndf}$  21.87 / 51  
 $p_0$   $26.47 \pm 31.52$



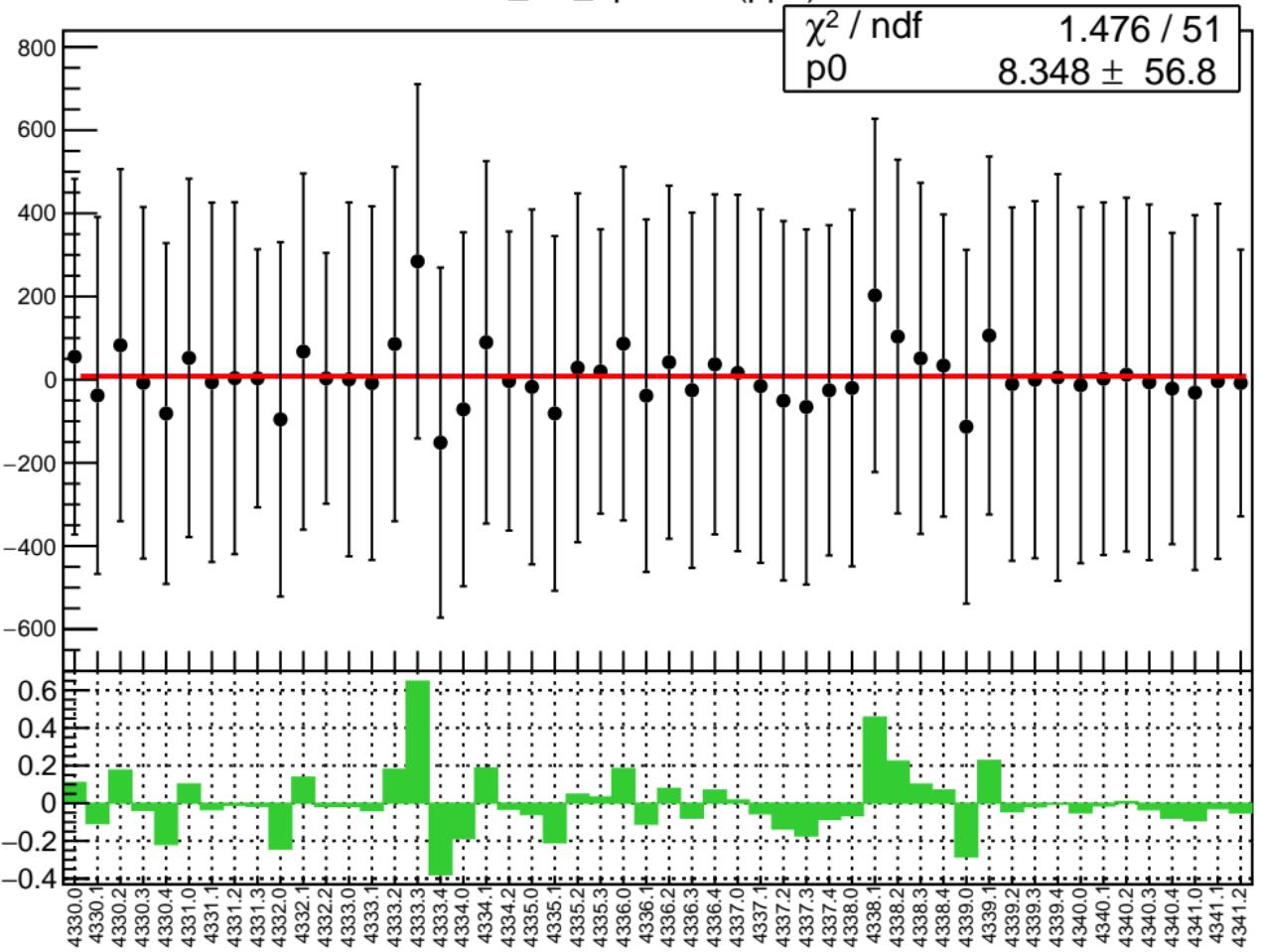
1D pull distribution



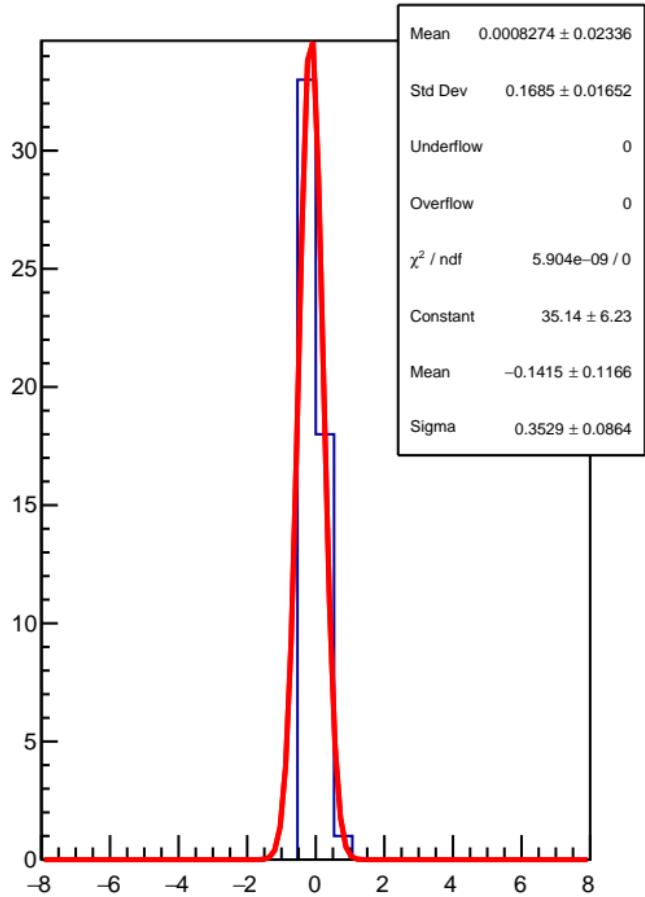
# corr\_usl\_bpm4aX RMS (ppm)



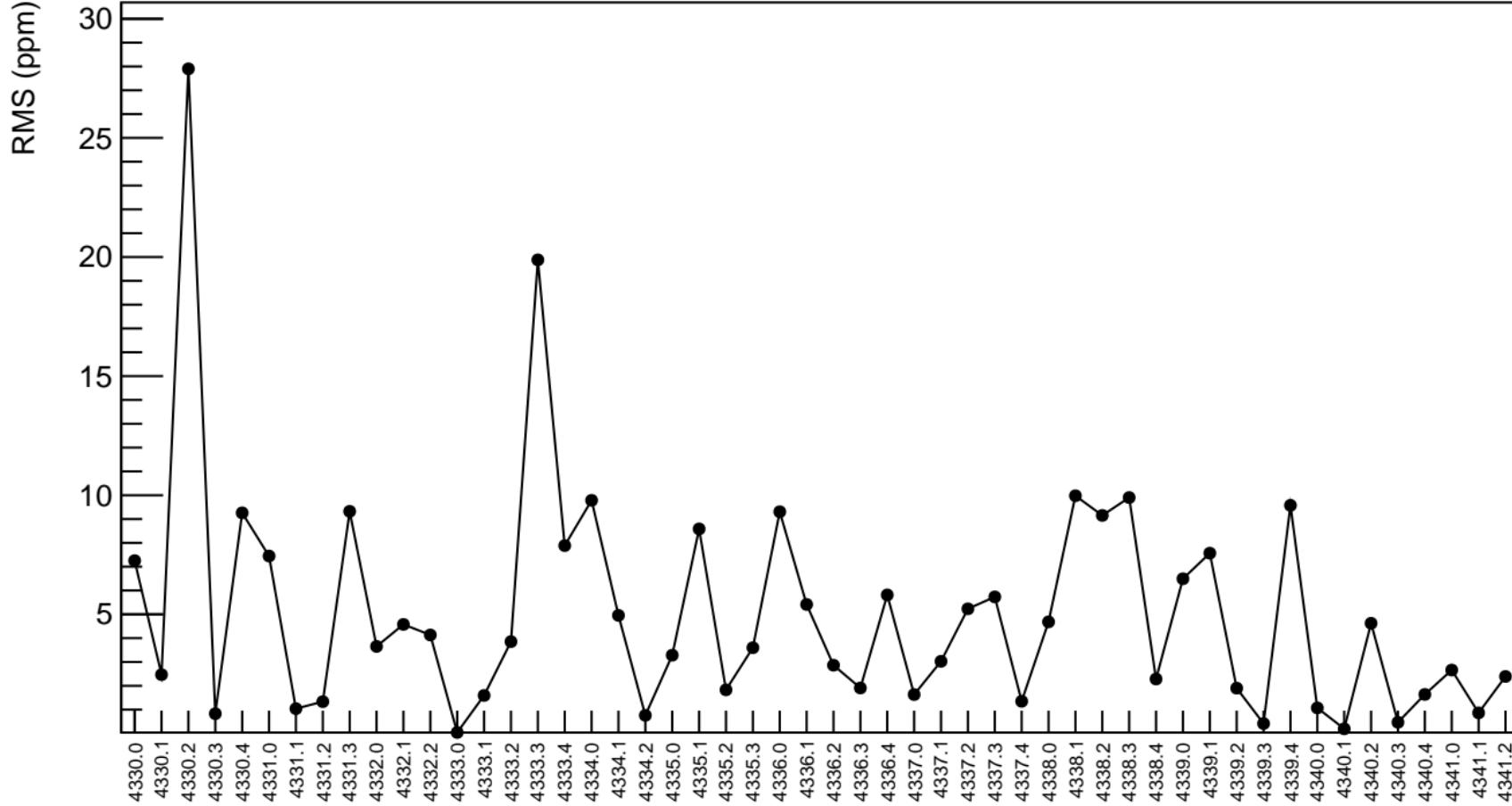
corr\_usl\_bpm4aY (ppb)



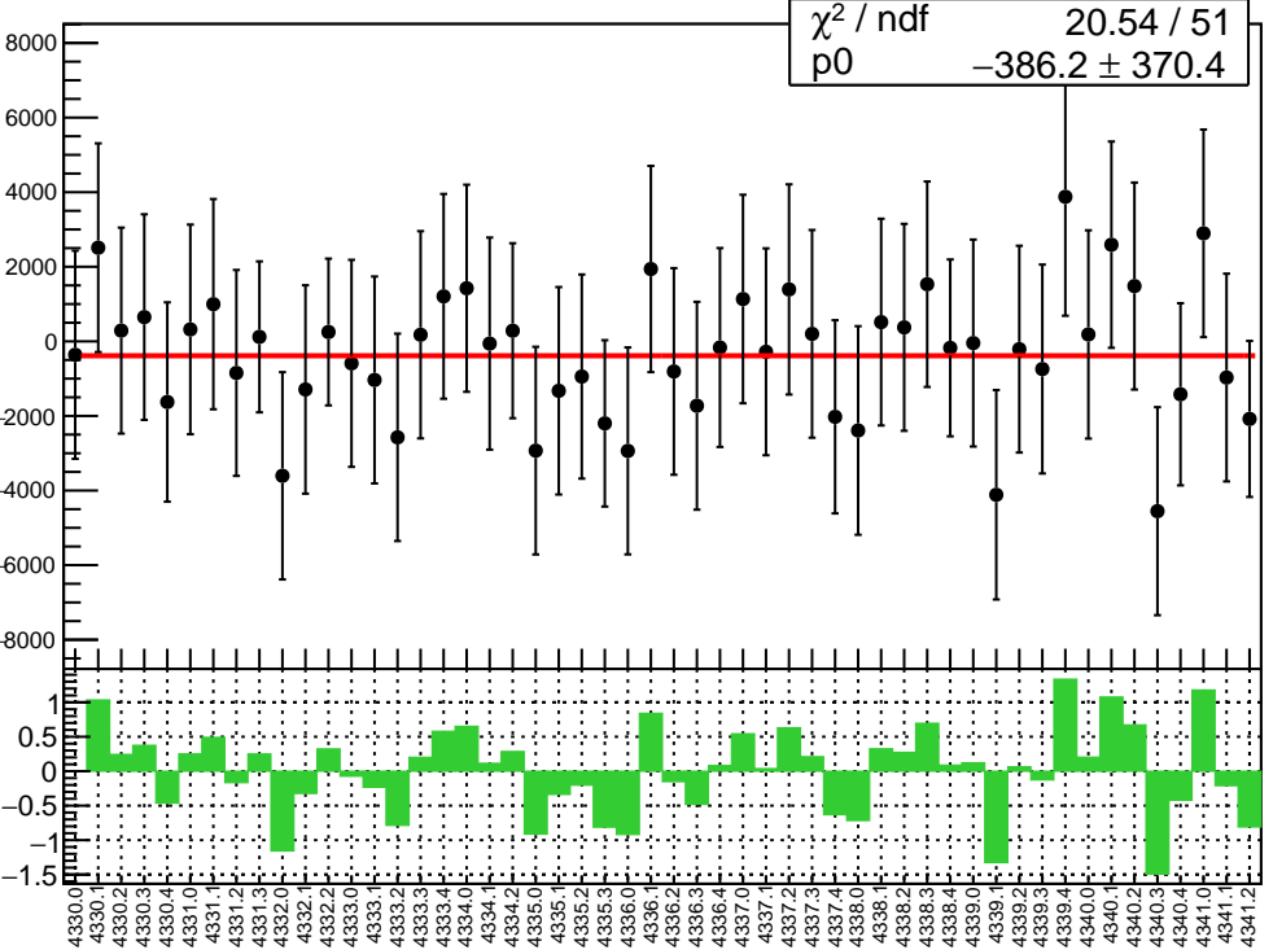
1D pull distribution



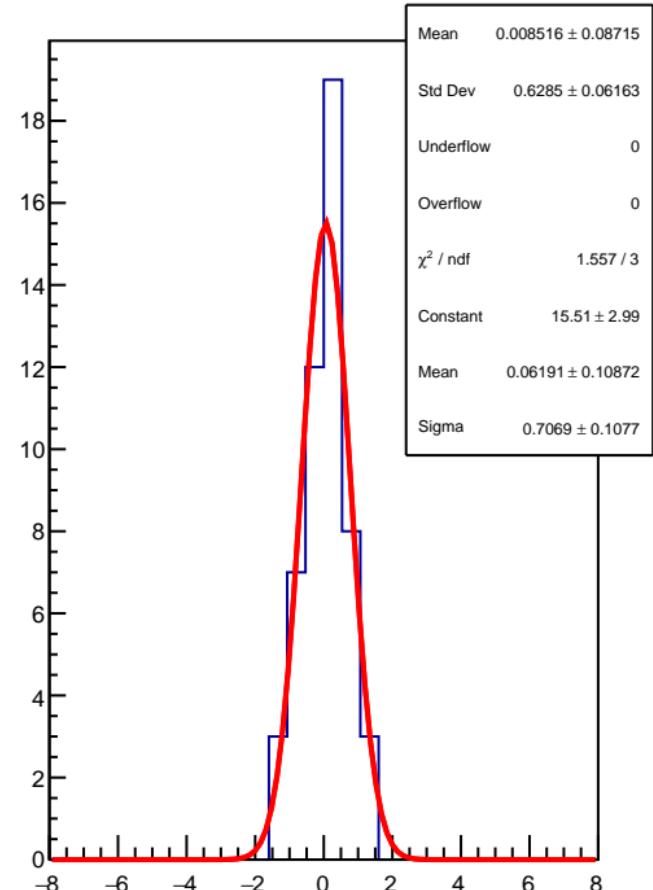
# corr\_usl\_bpm4aY RMS (ppm)



corr\_usl\_bpm1X (ppb)

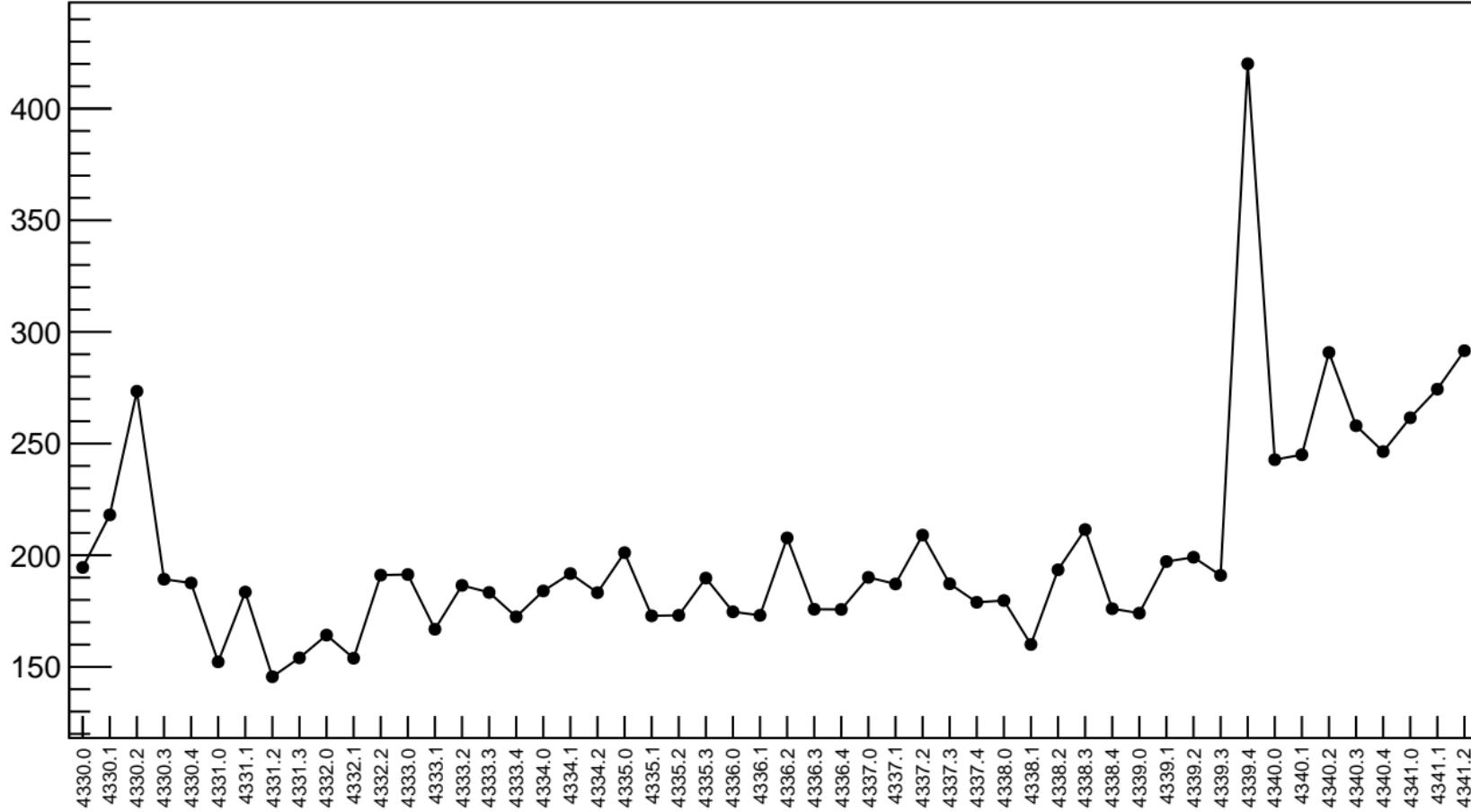


1D pull distribution

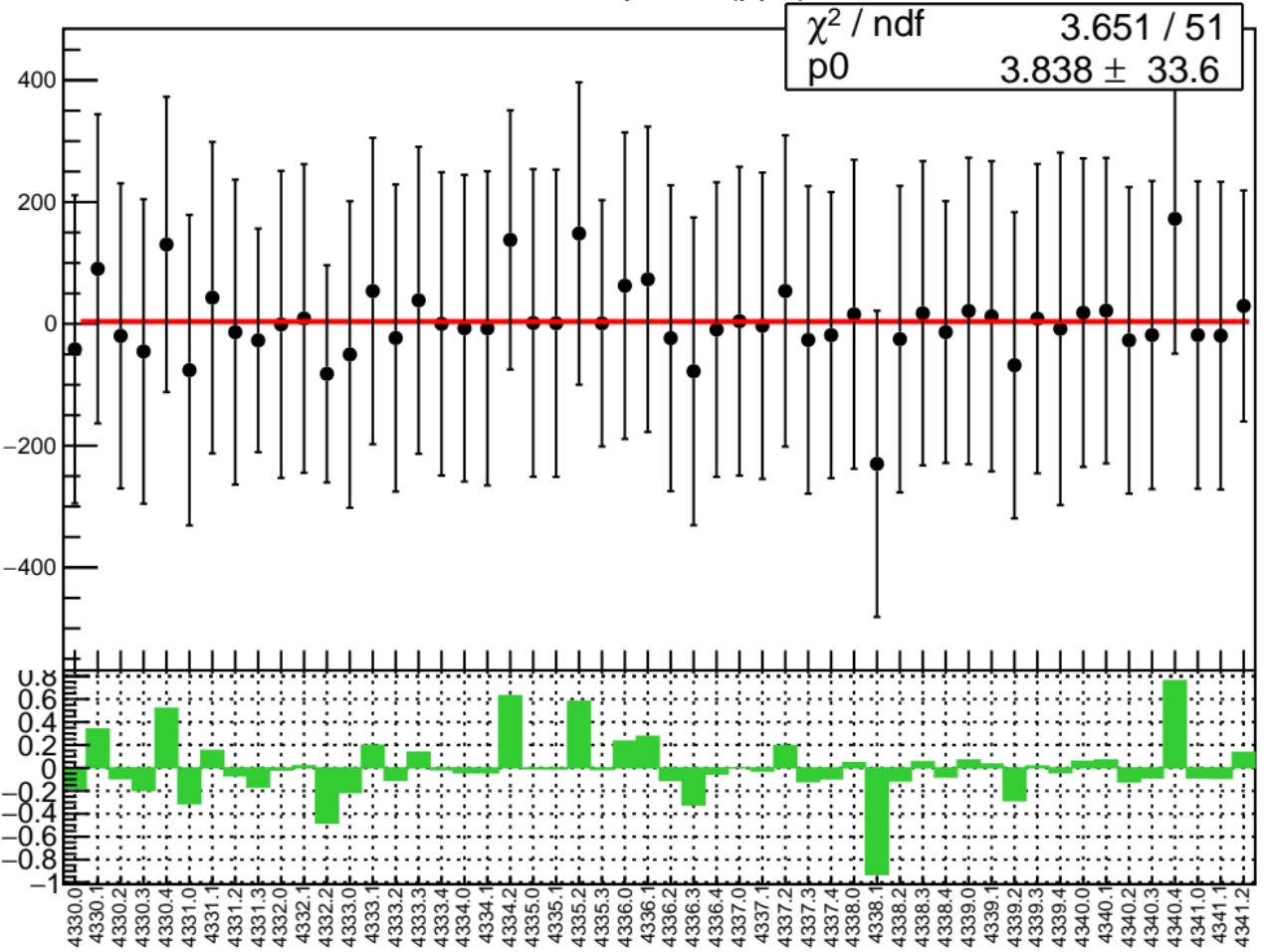


# corr\_usl\_bpm1X RMS (ppm)

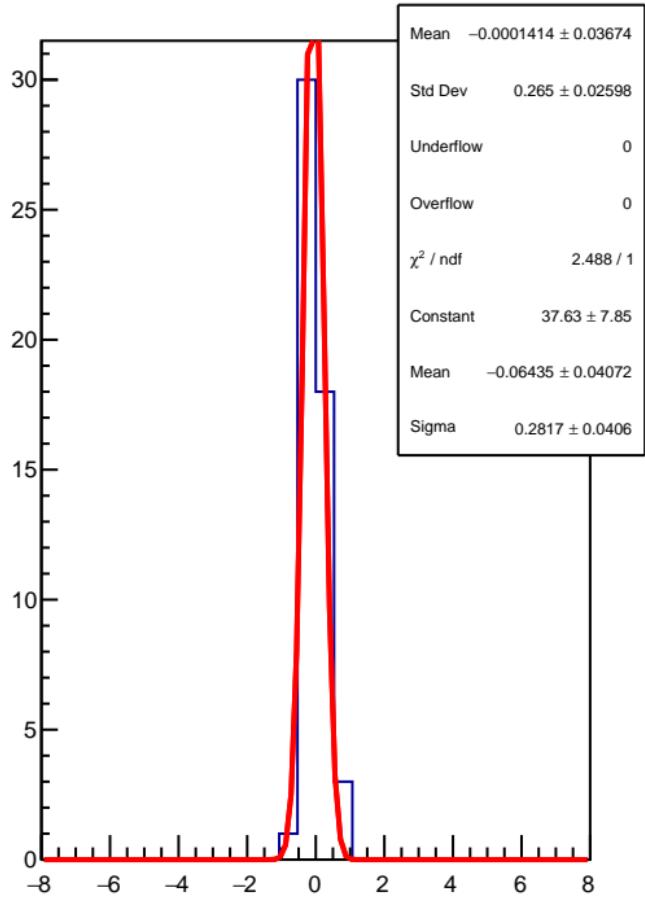
RMS (ppm)



corr\_usl\_bpm1Y (ppb)

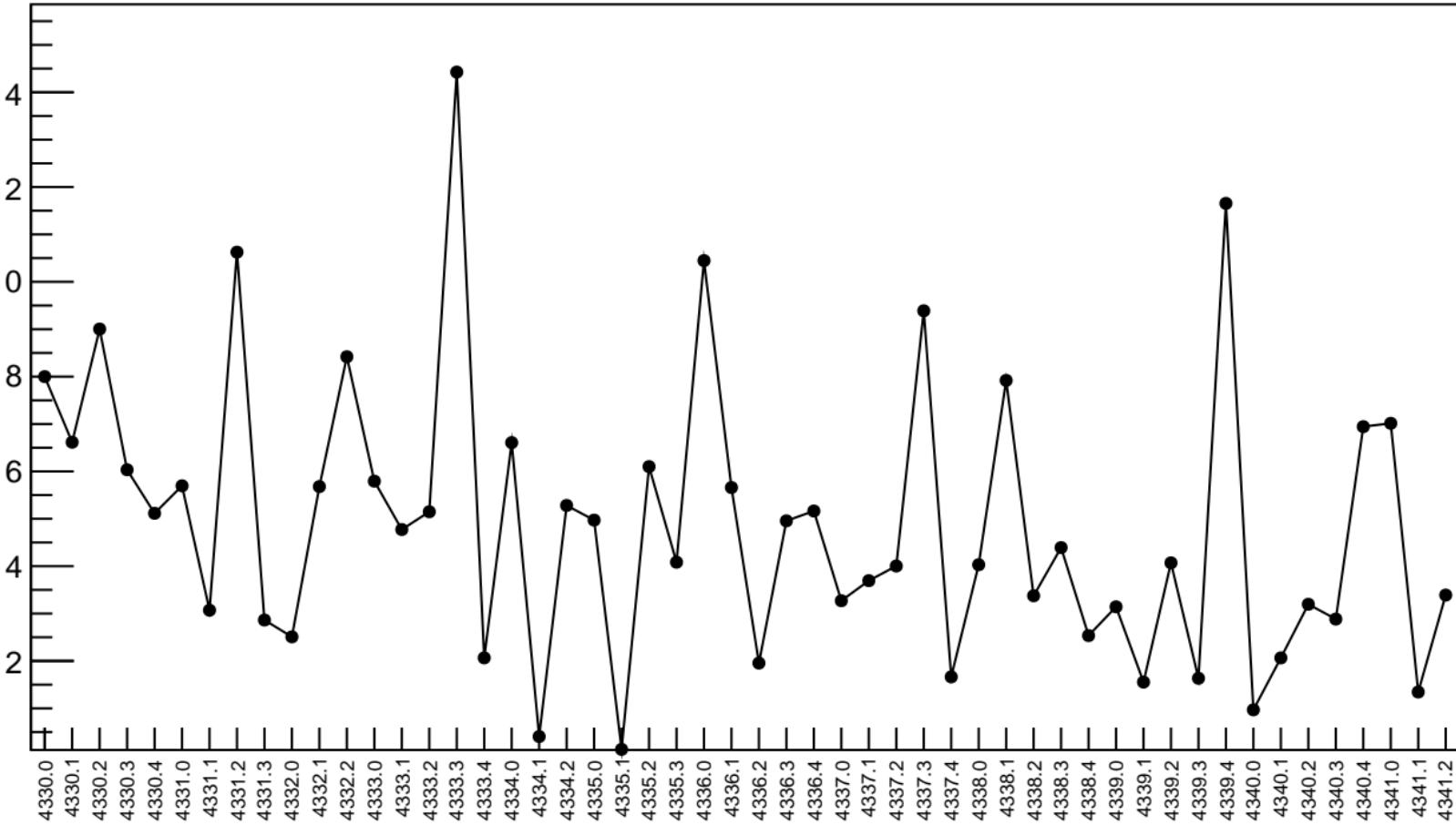


1D pull distribution

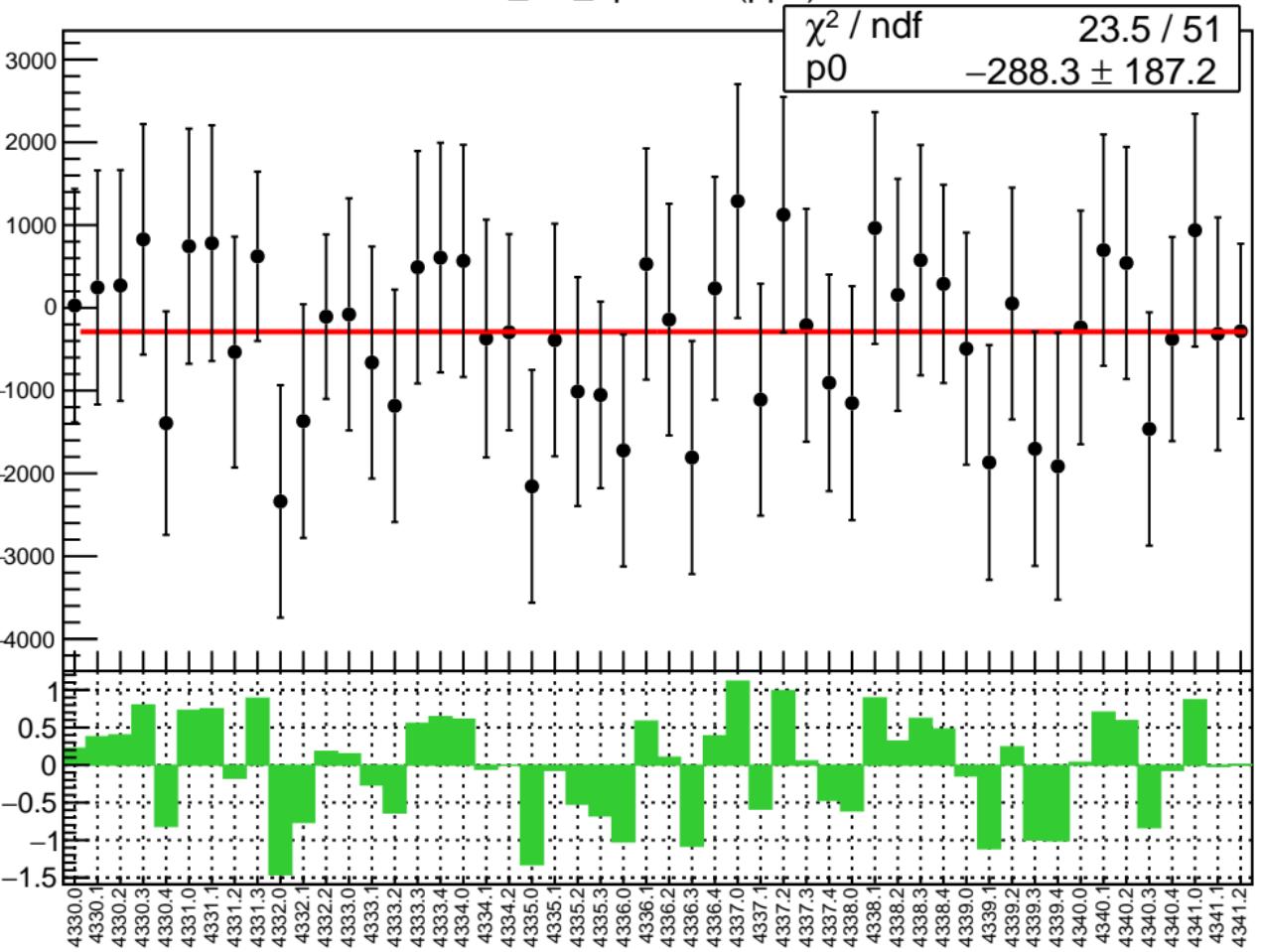


# corr\_usl\_bpm1Y RMS (ppm)

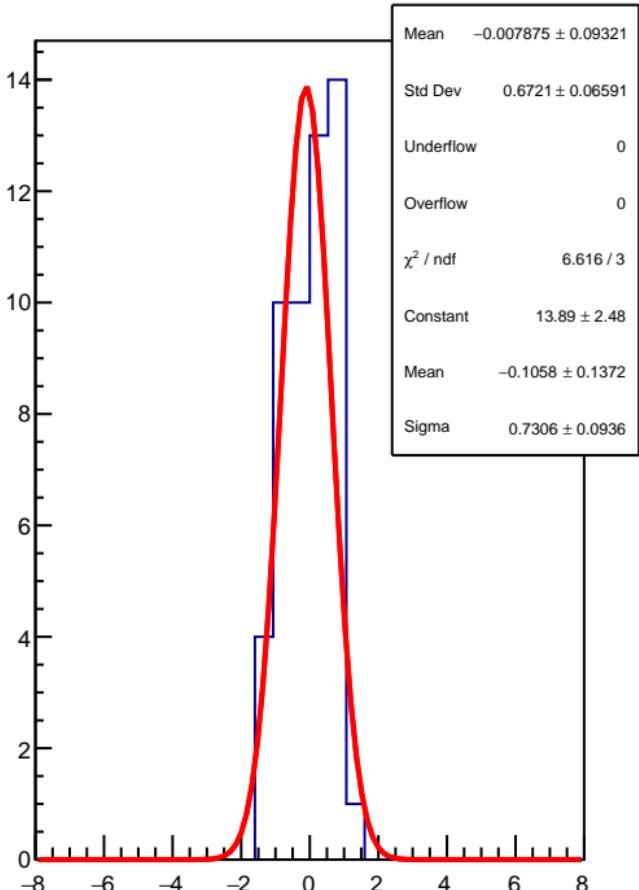
RMS (ppm)



corr\_usl\_bpm16X (ppb)

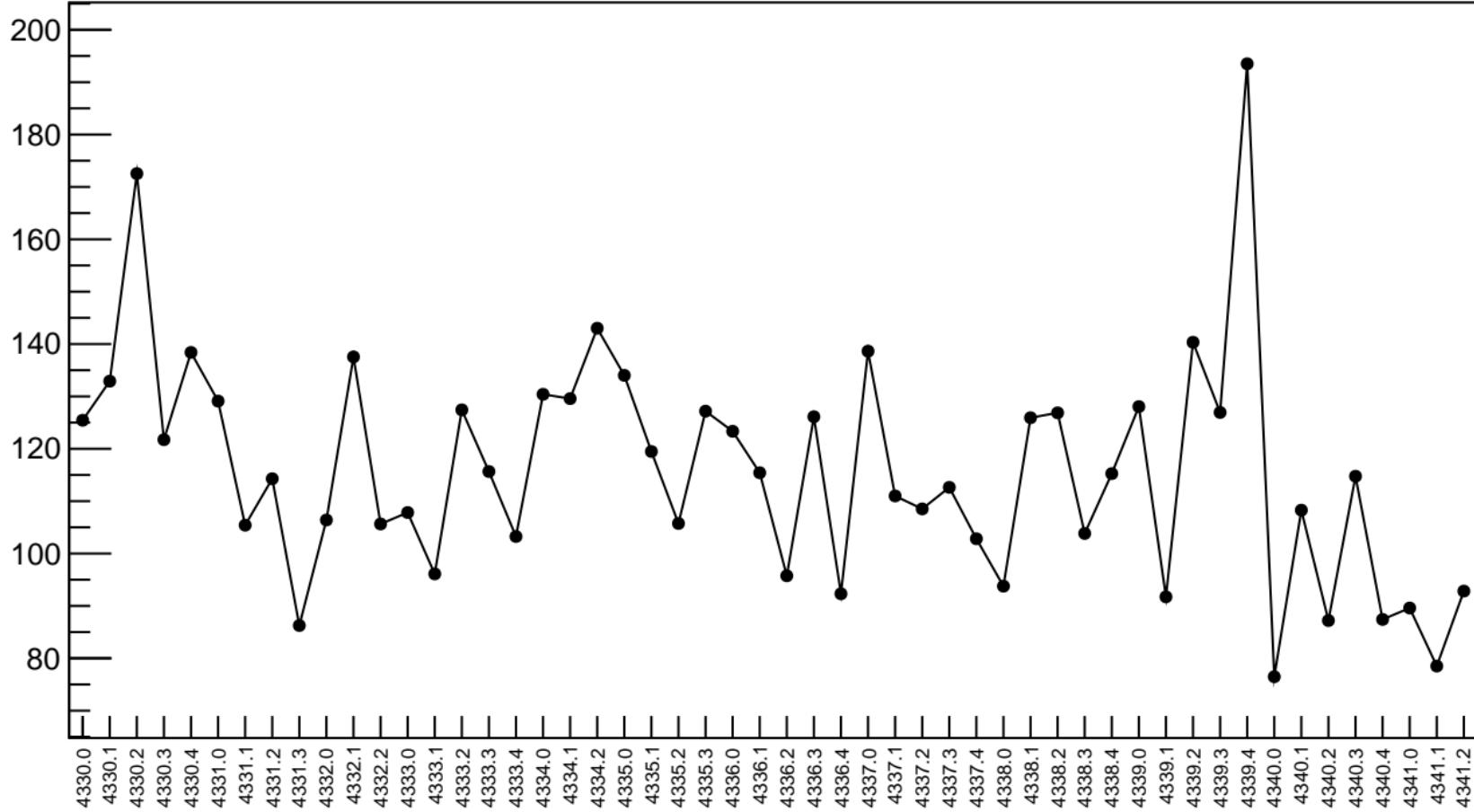


1D pull distribution

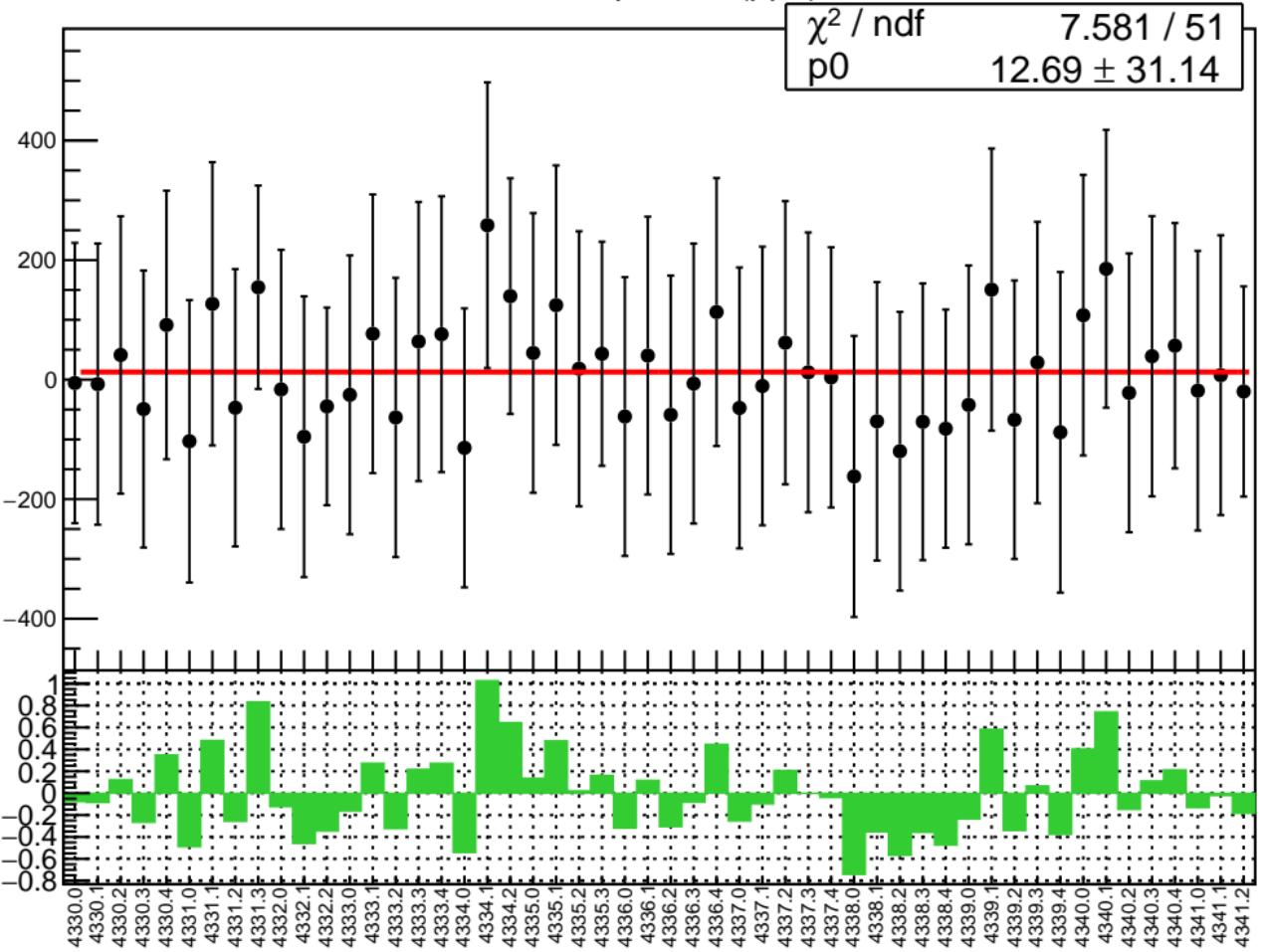


# corr\_usl\_bpm16X RMS (ppm)

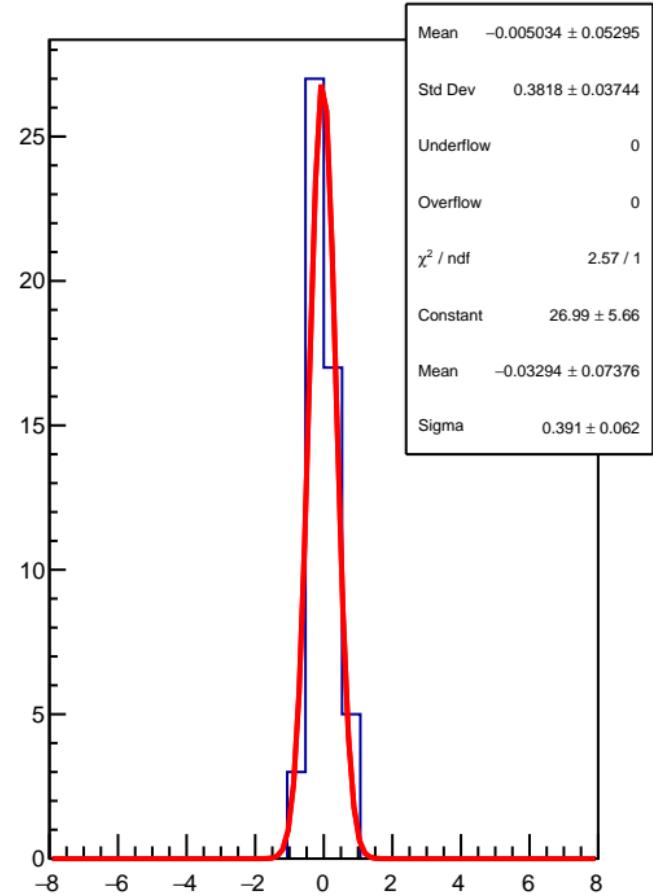
RMS (ppm)



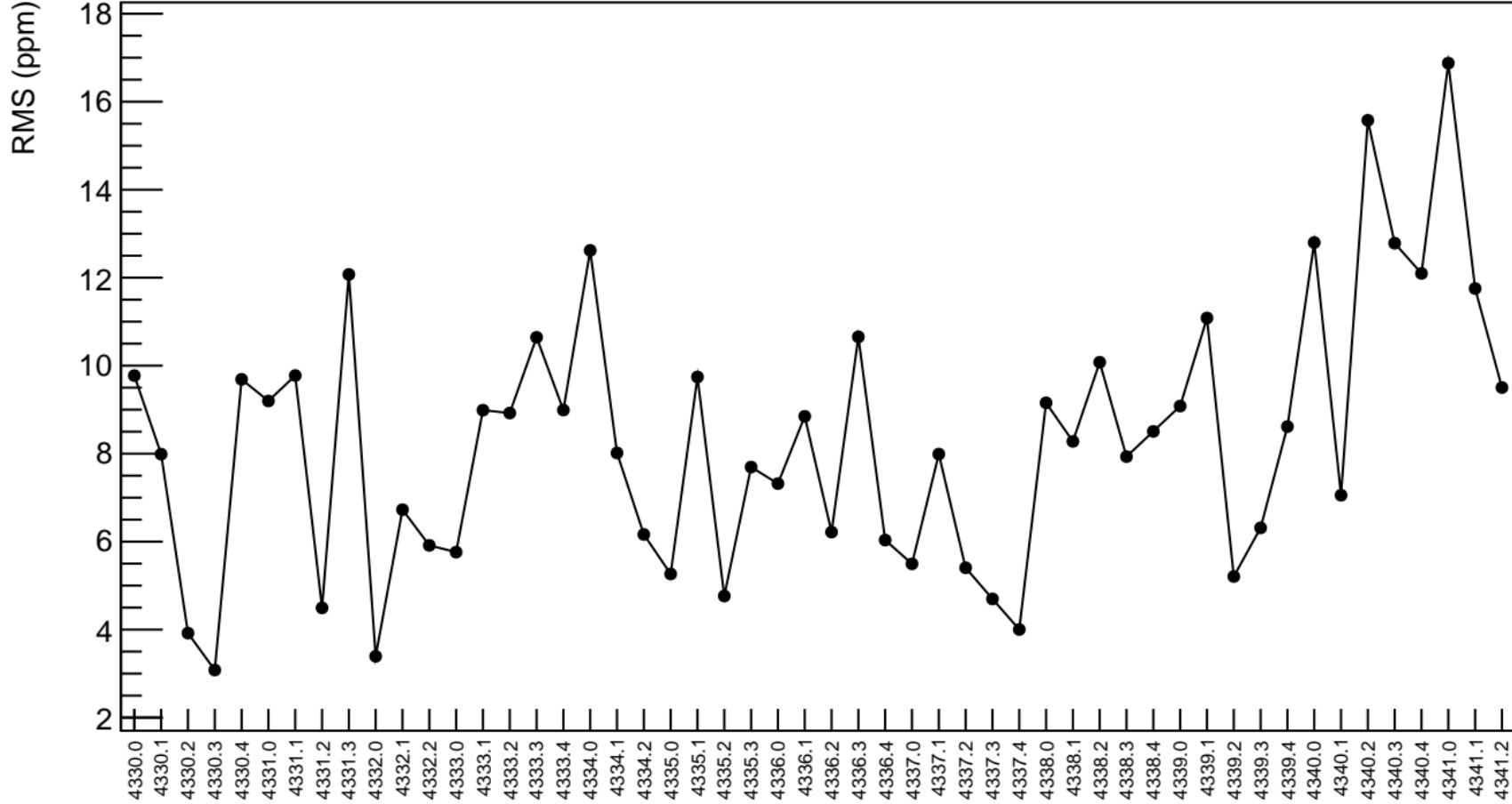
corr\_usl\_bpm16Y (ppb)



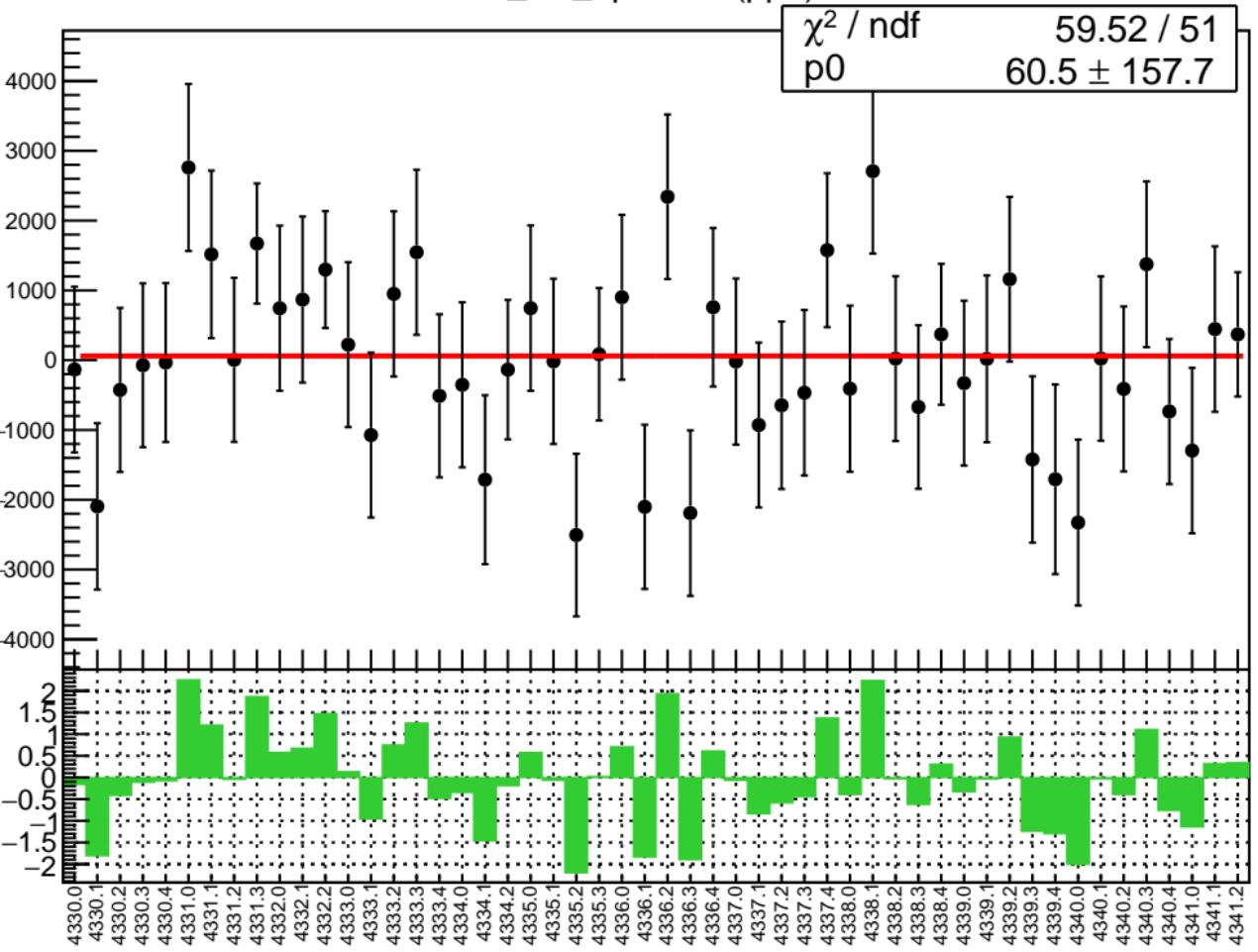
1D pull distribution



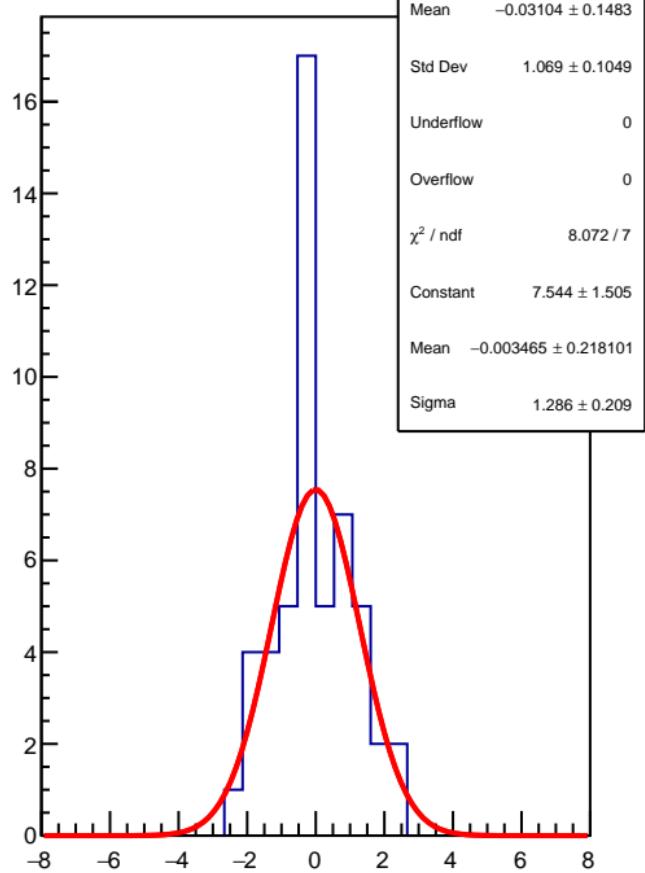
# corr\_usl\_bpm16Y RMS (ppm)



corr\_usl\_bpm12X (ppb)

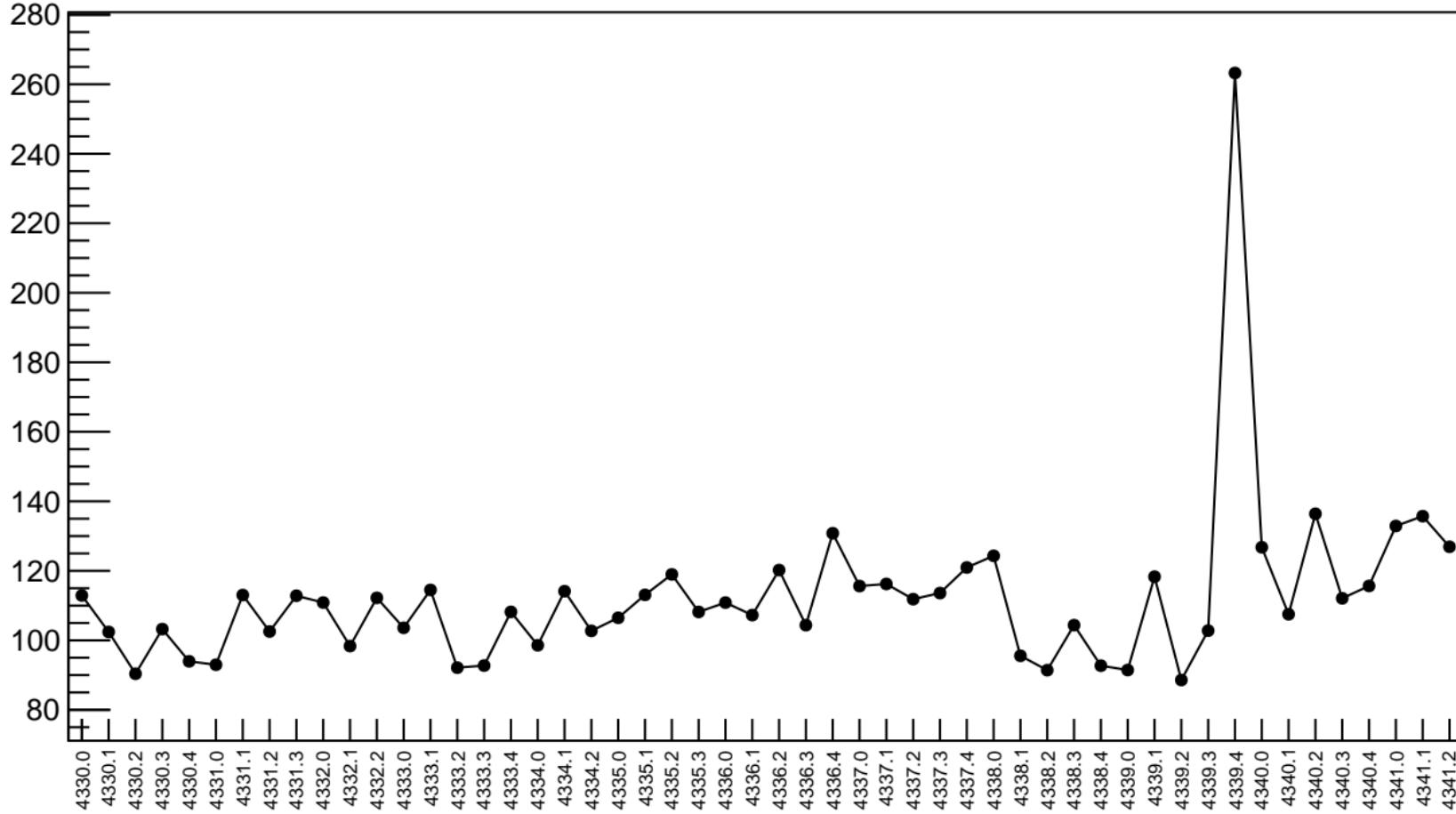


1D pull distribution

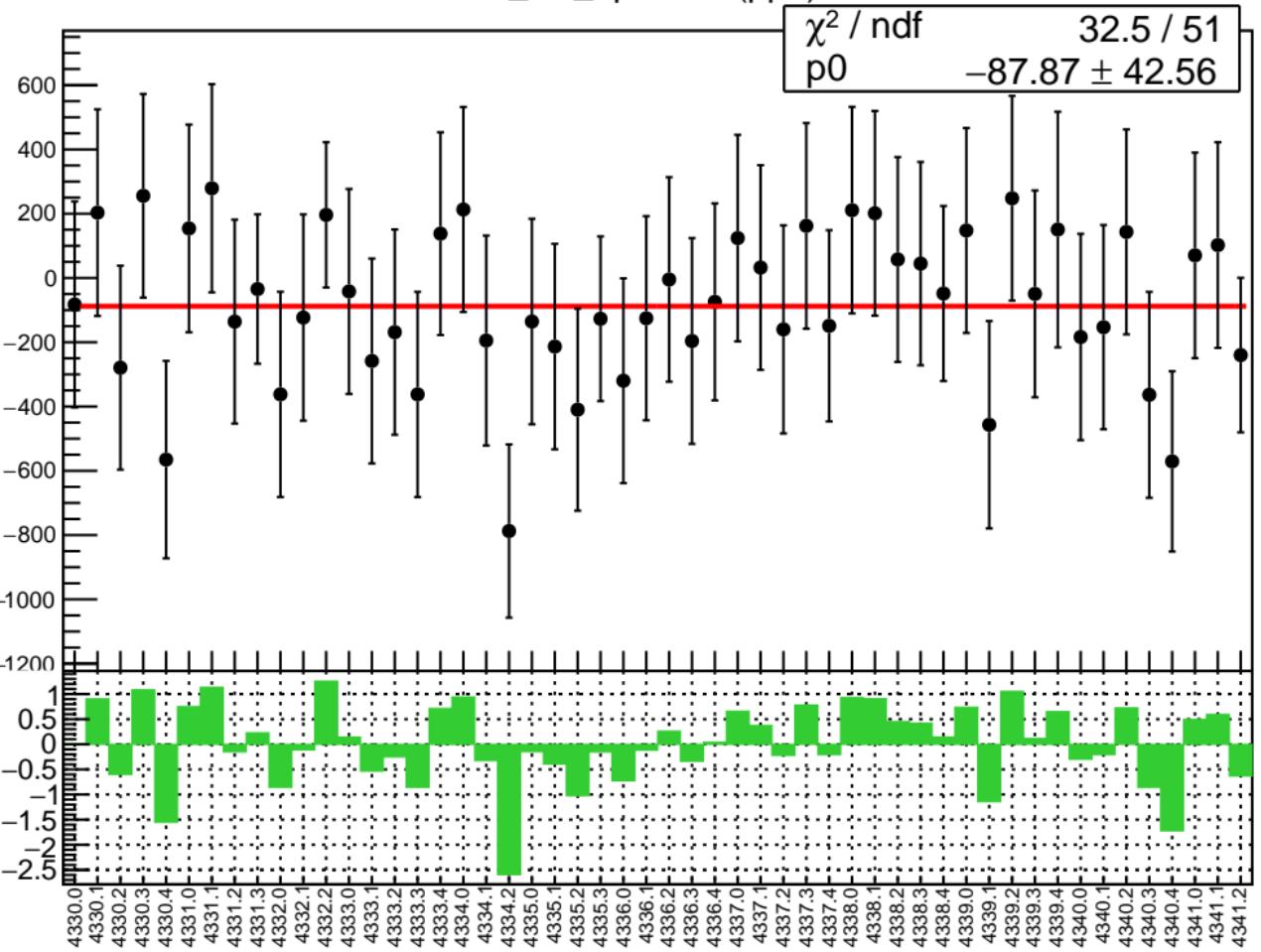


# corr\_usl\_bpm12X RMS (ppm)

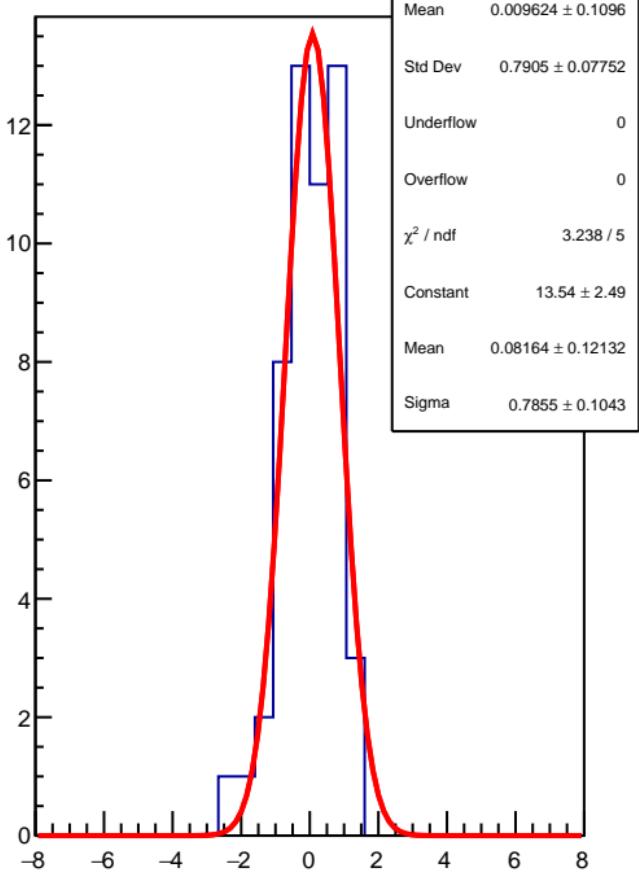
RMS (ppm)



corr\_usl\_bpm12Y (ppb)

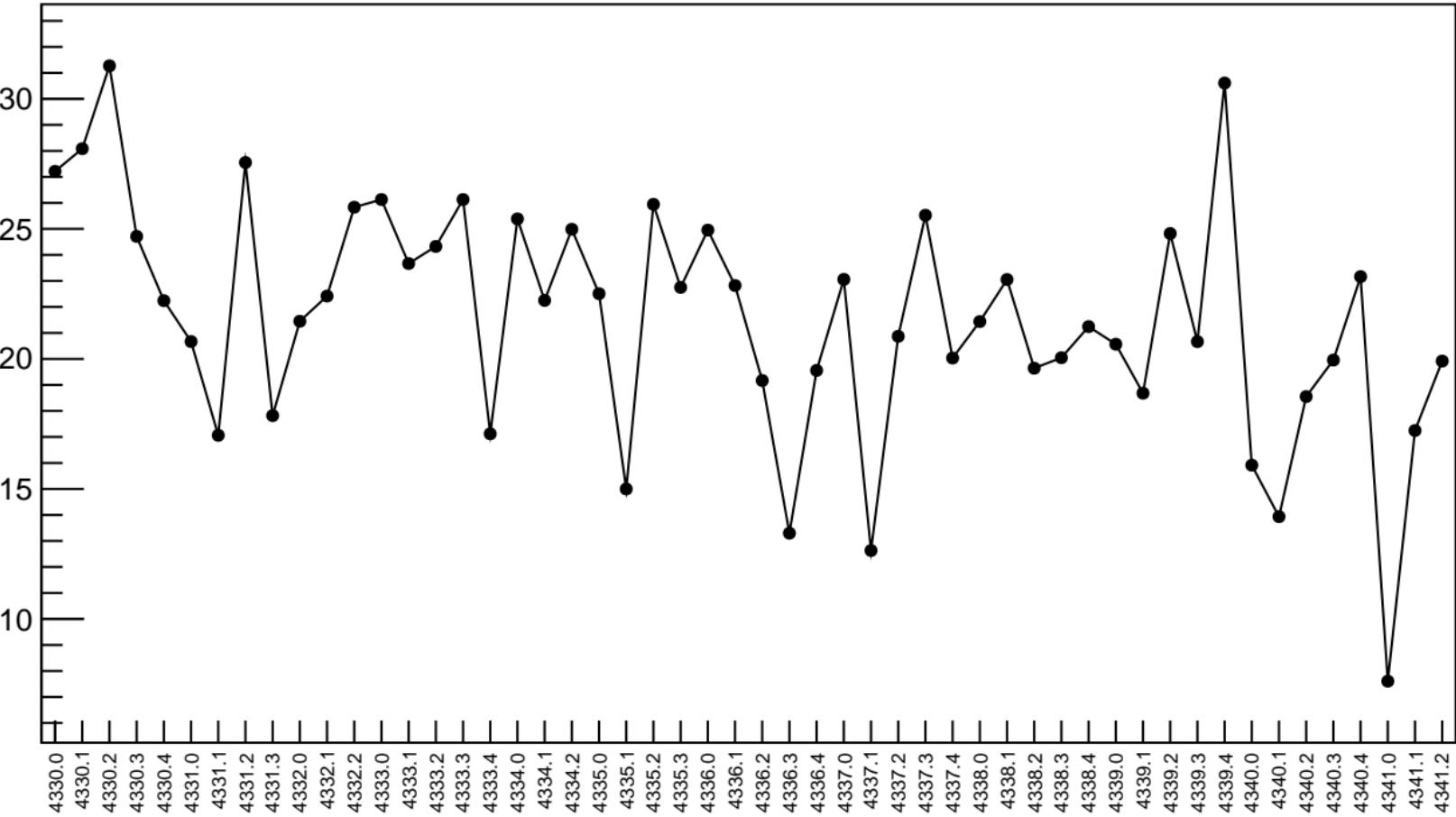


1D pull distribution



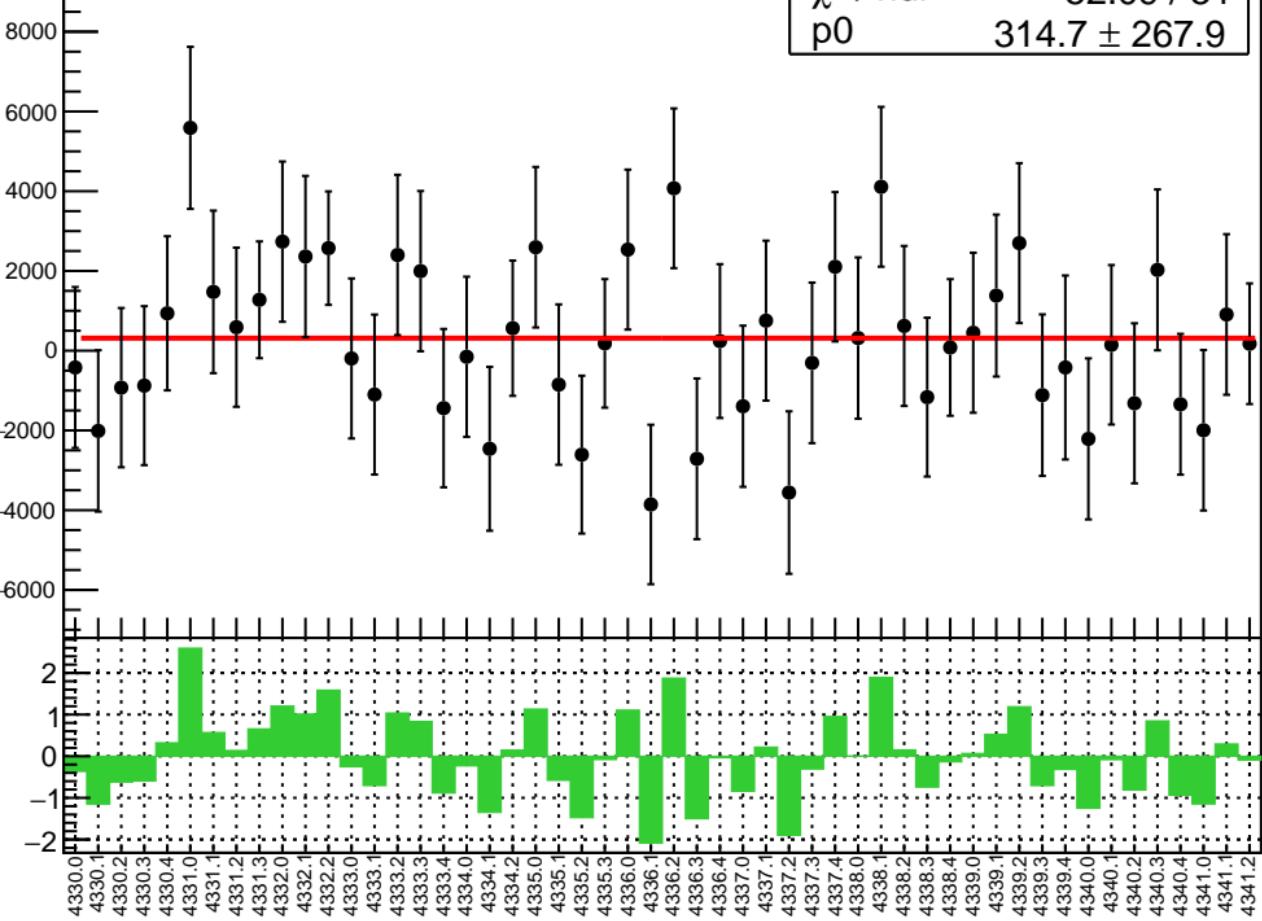
# corr\_usl\_bpm12Y RMS (ppm)

RMS (ppm)

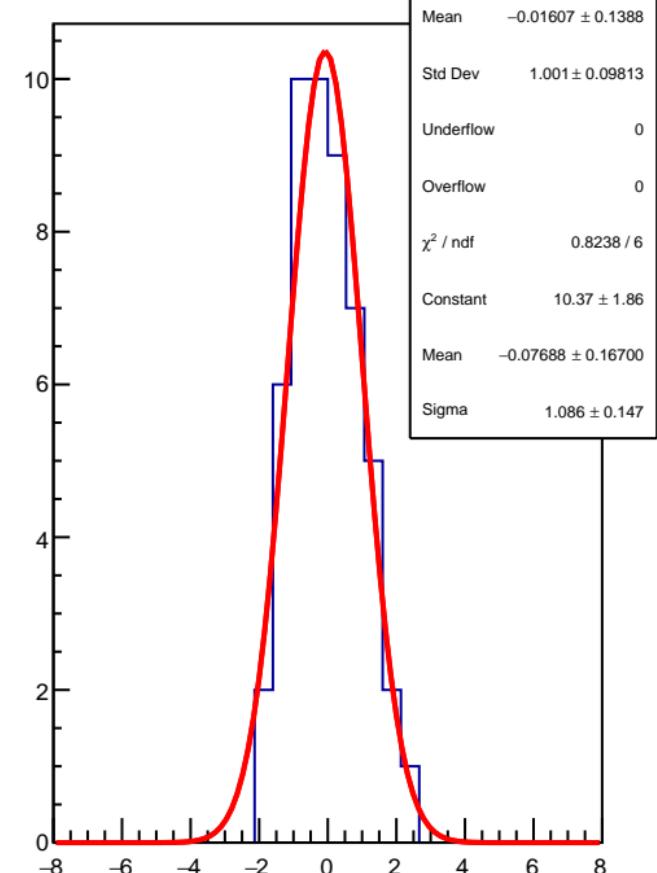


corr\_usl\_bpm11X (ppb)

$\chi^2 / \text{ndf}$  52.09 / 51  
p0  $314.7 \pm 267.9$



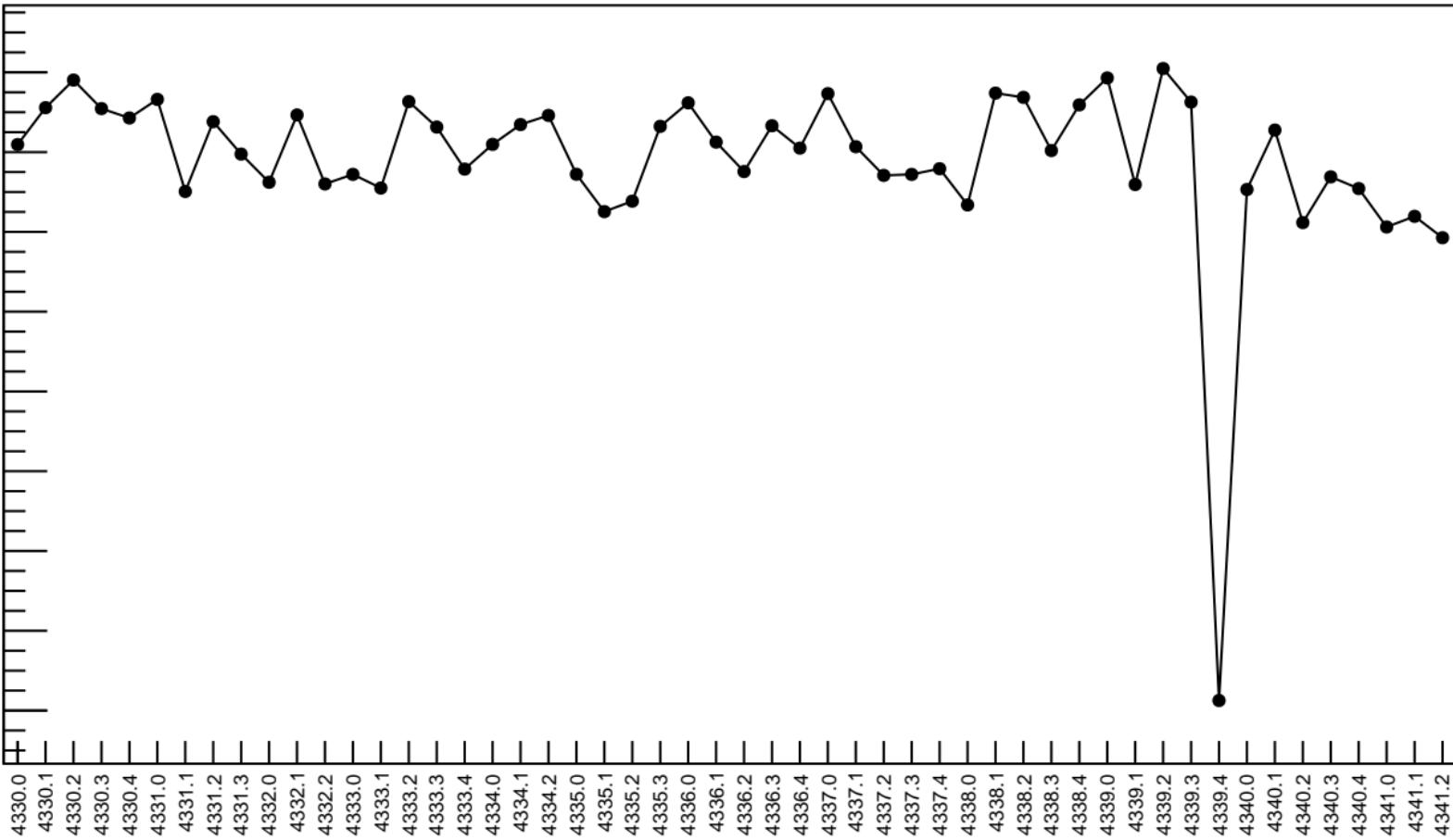
1D pull distribution



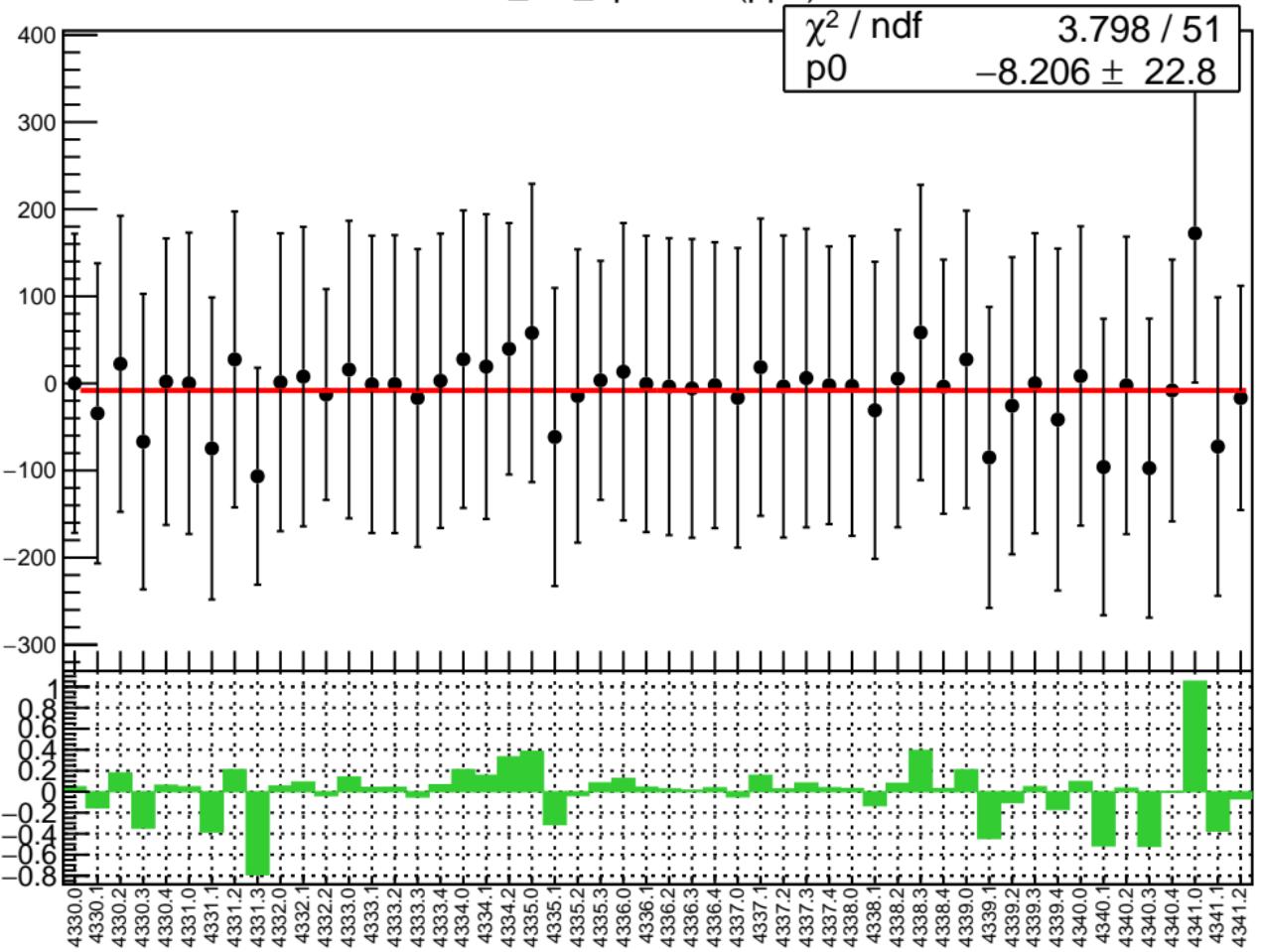
# corr\_usl\_bpm11X RMS (ppm)

RMS (ppm)

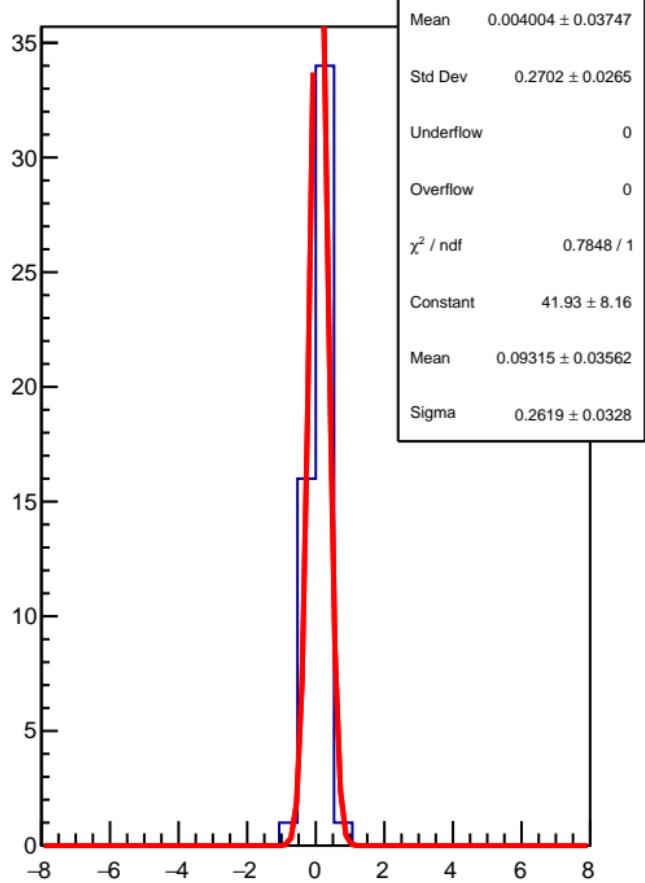
200  
180  
160  
140  
120  
100  
80  
60  
40



corr\_usl\_bpm11Y (ppb)

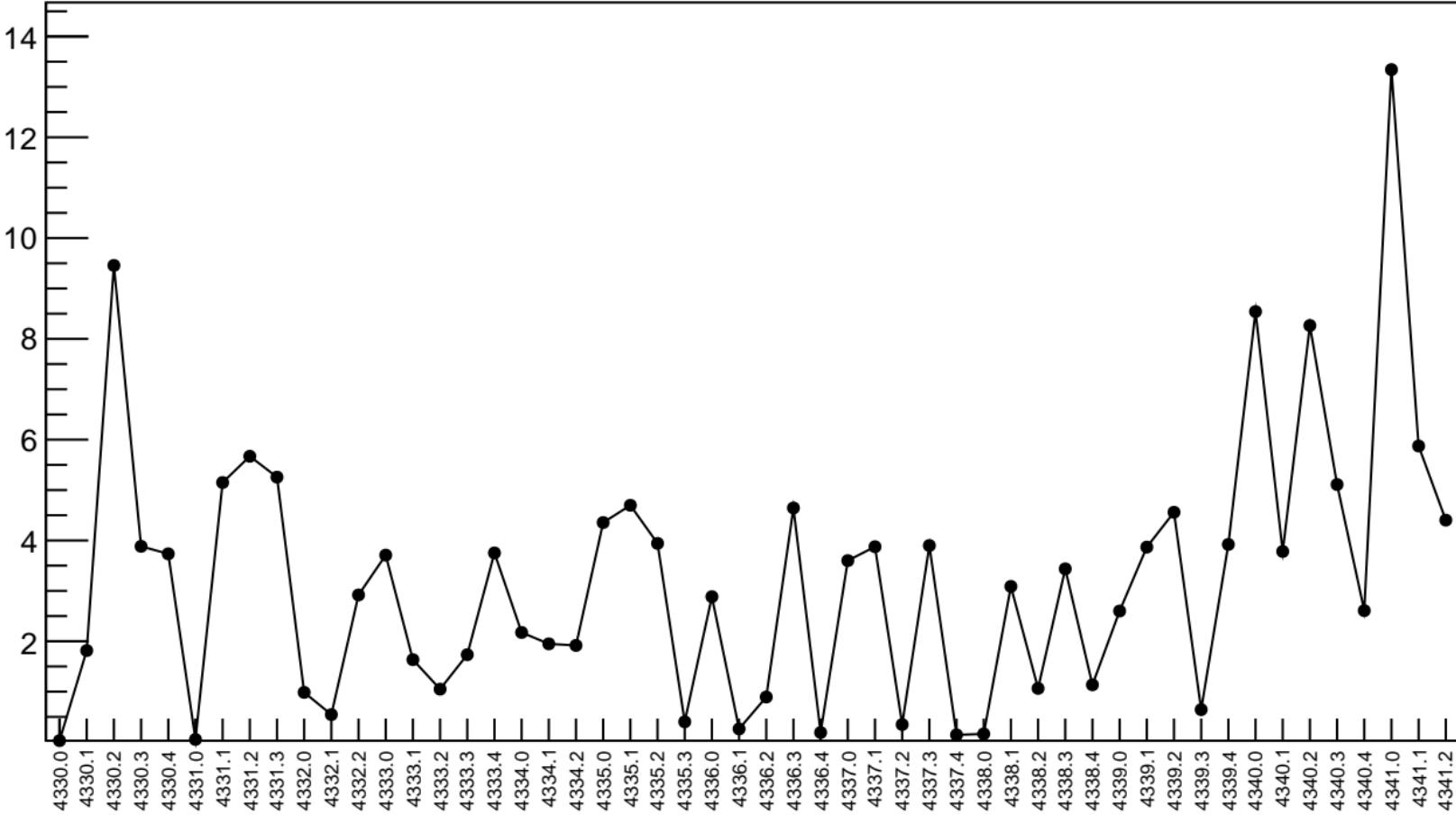


1D pull distribution

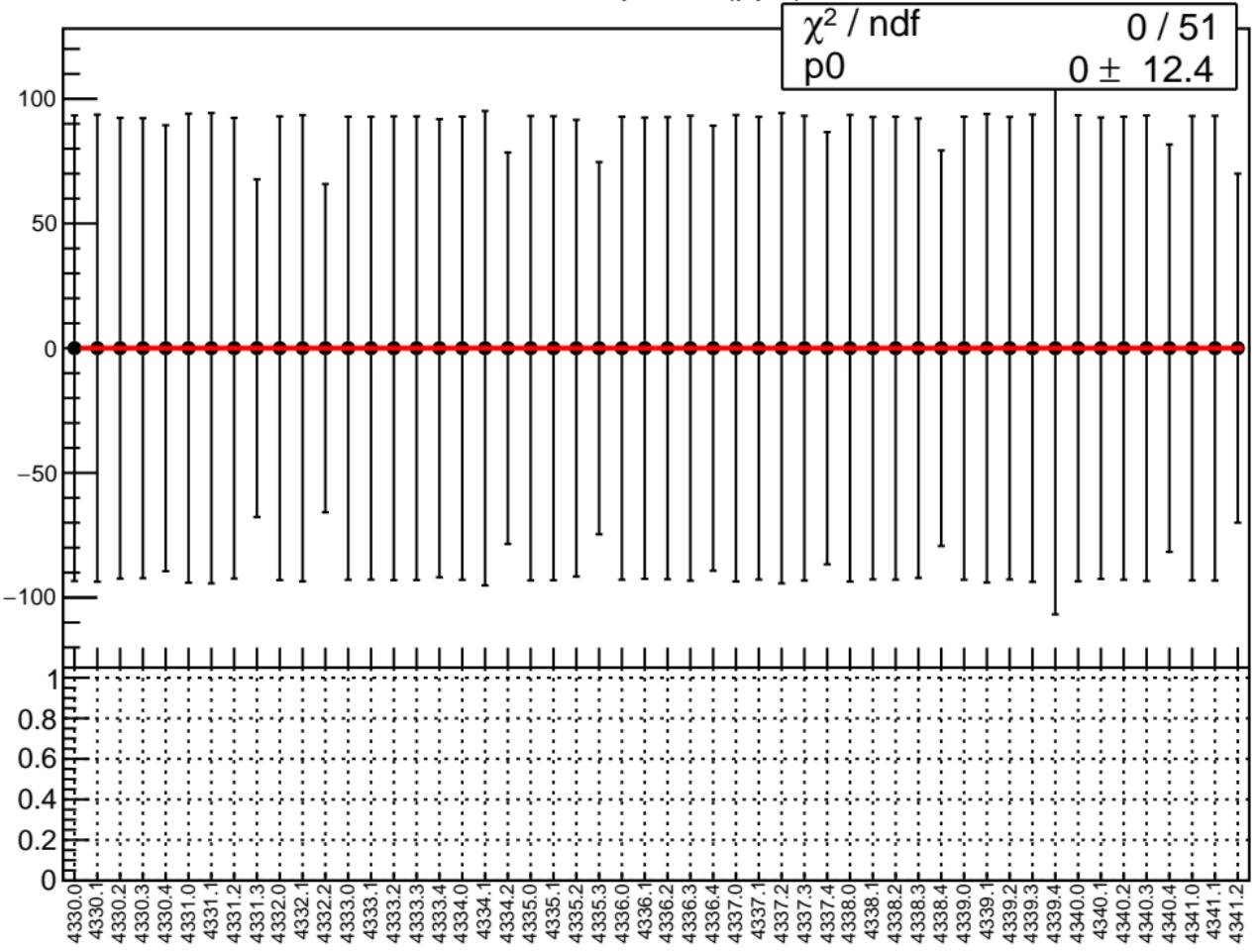


# corr\_usl\_bpm11Y RMS (ppm)

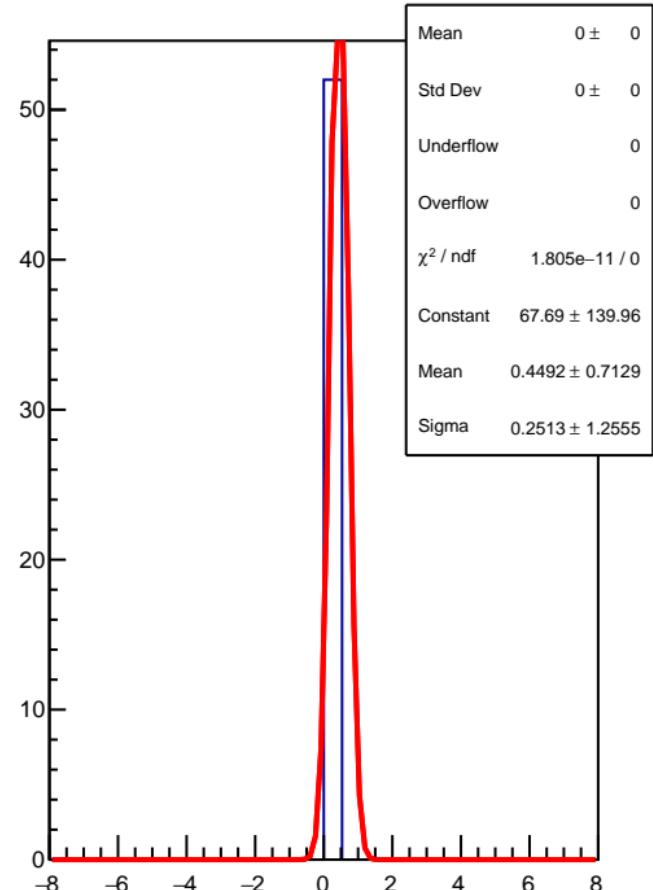
RMS (ppm)



corr\_usl\_bpm8X (ppb)

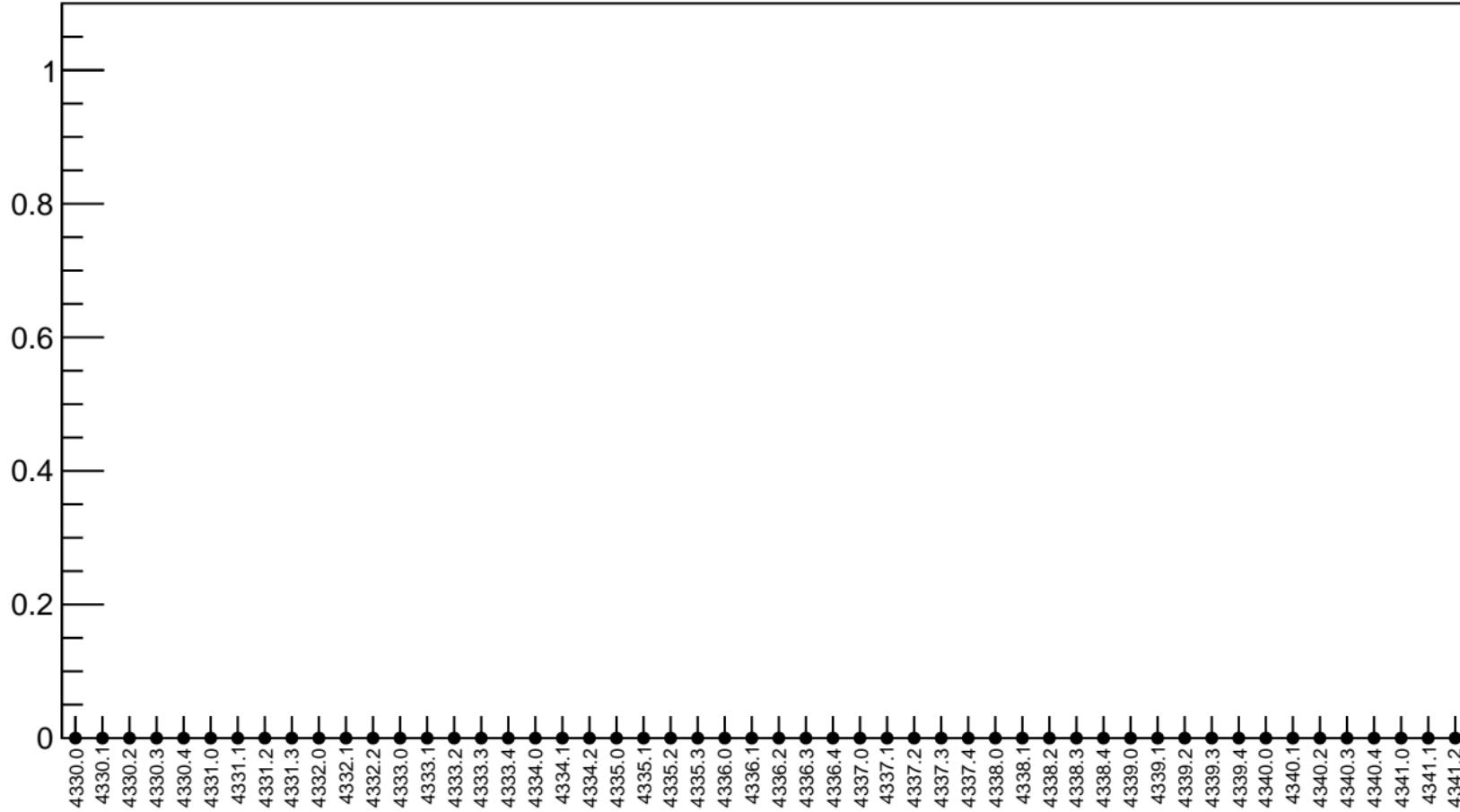


1D pull distribution

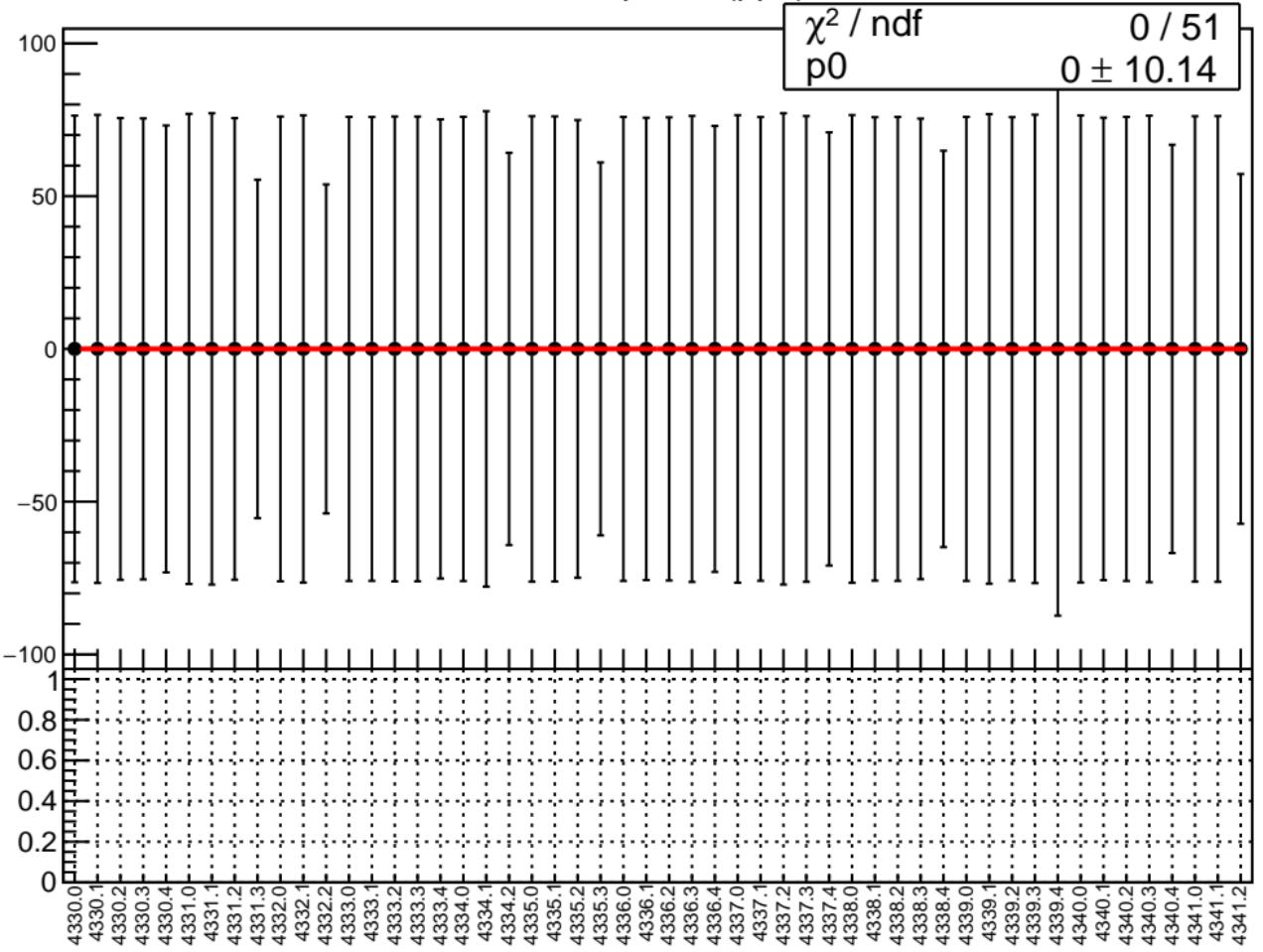


# corr\_usl\_bpm8X RMS (ppm)

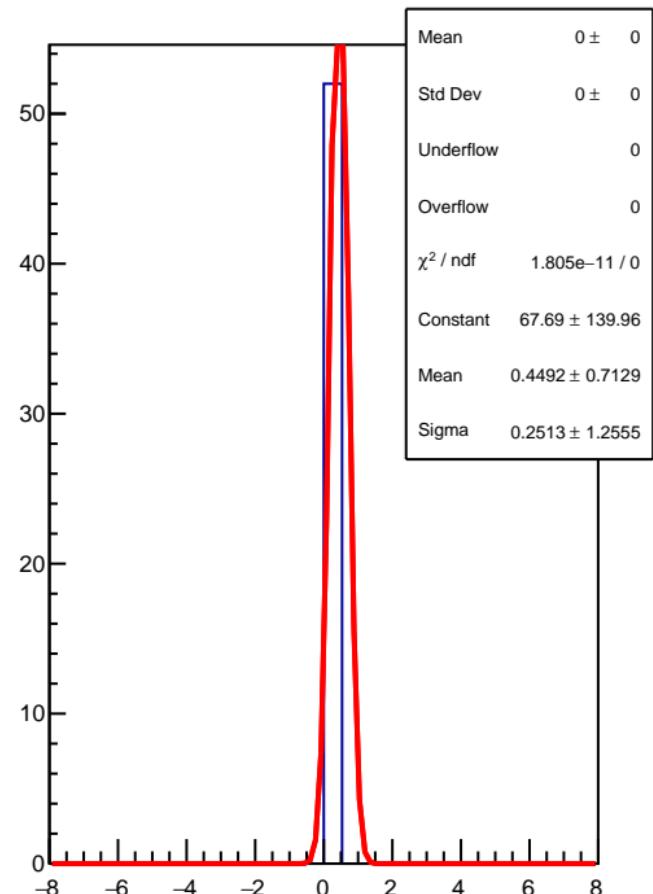
RMS (ppm)



corr\_usl\_bpm8Y (ppb)

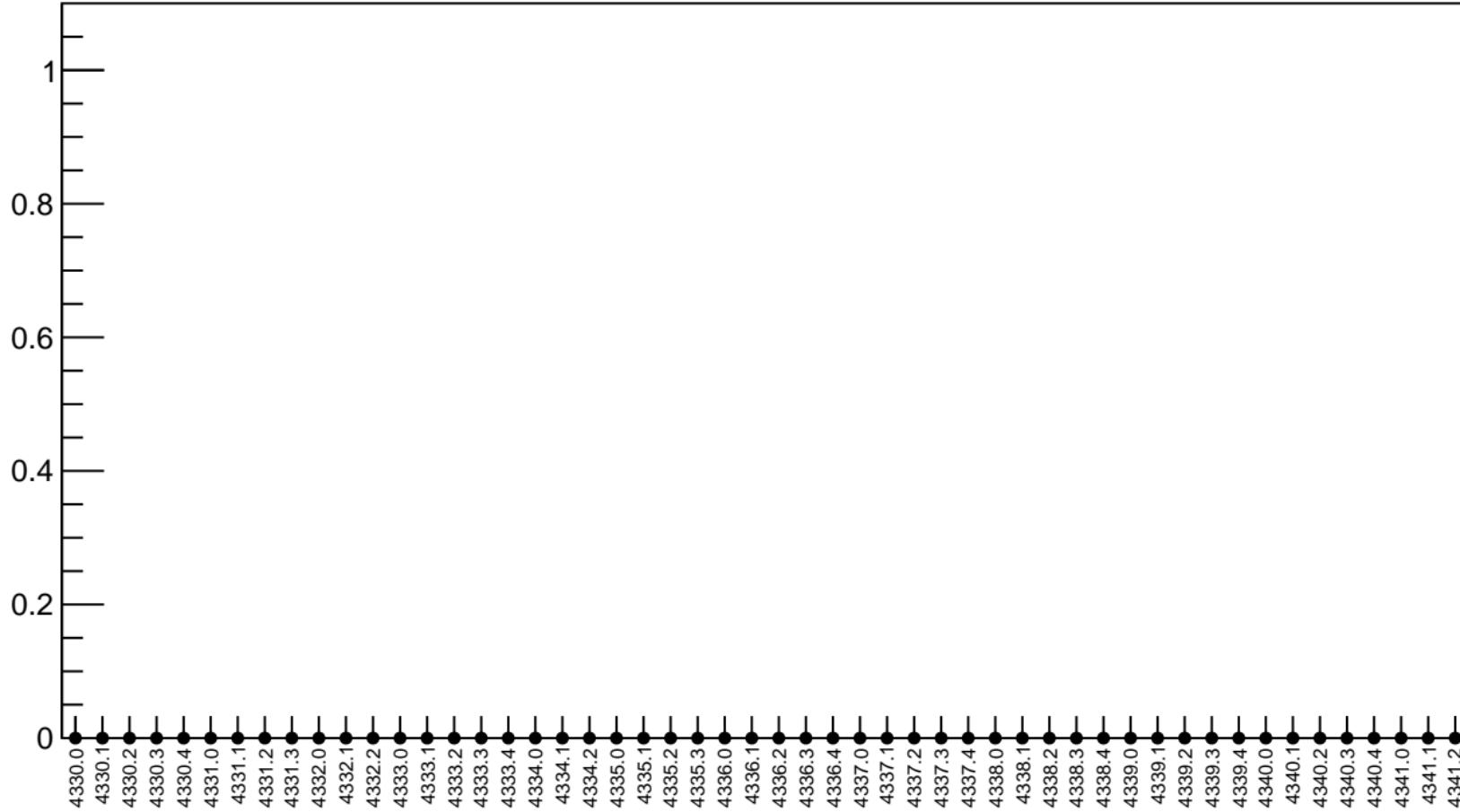


1D pull distribution

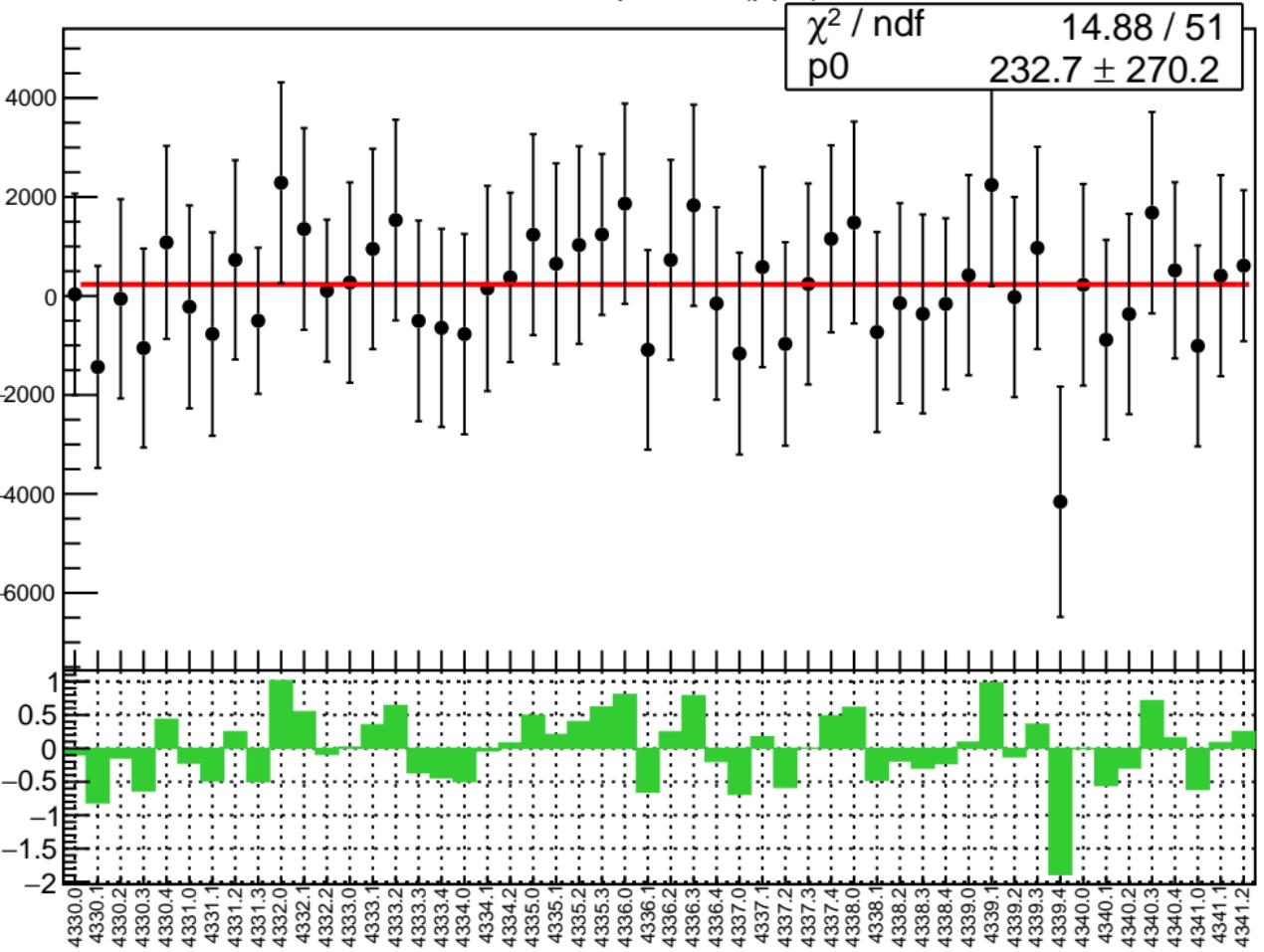


# corr\_usl\_bpm8Y RMS (ppm)

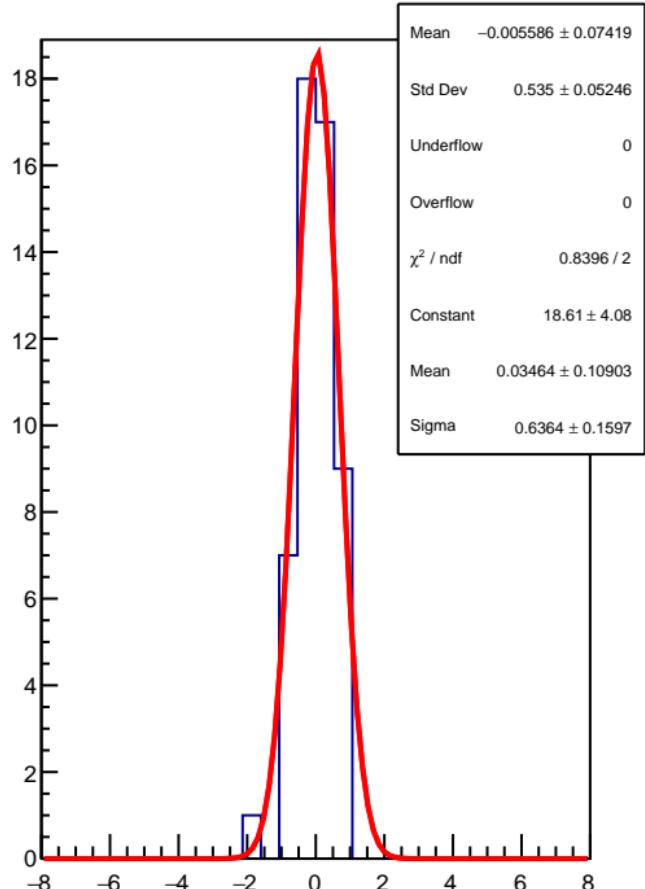
RMS (ppm)



corr\_usr\_bpm4eX (ppb)

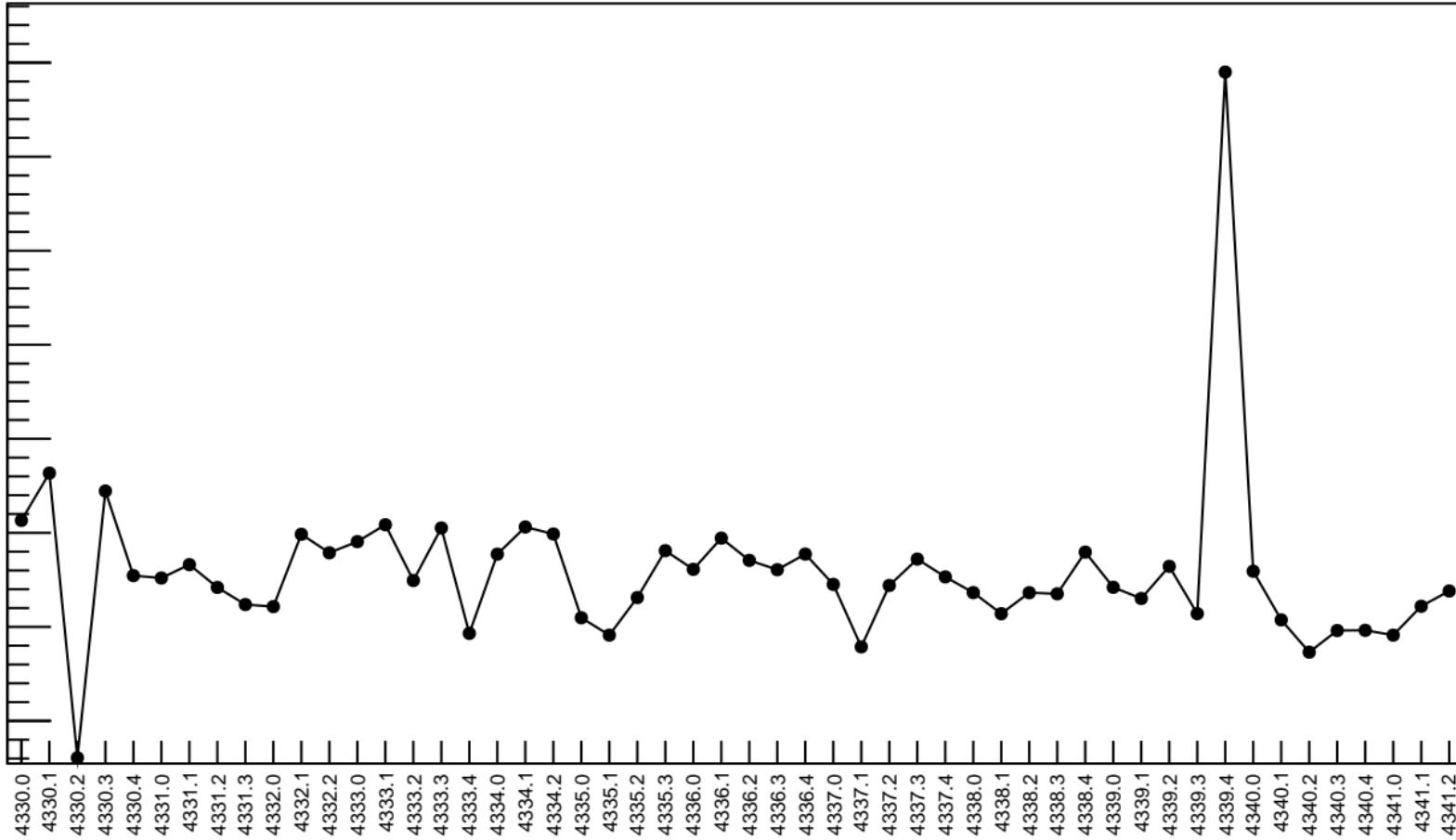


1D pull distribution

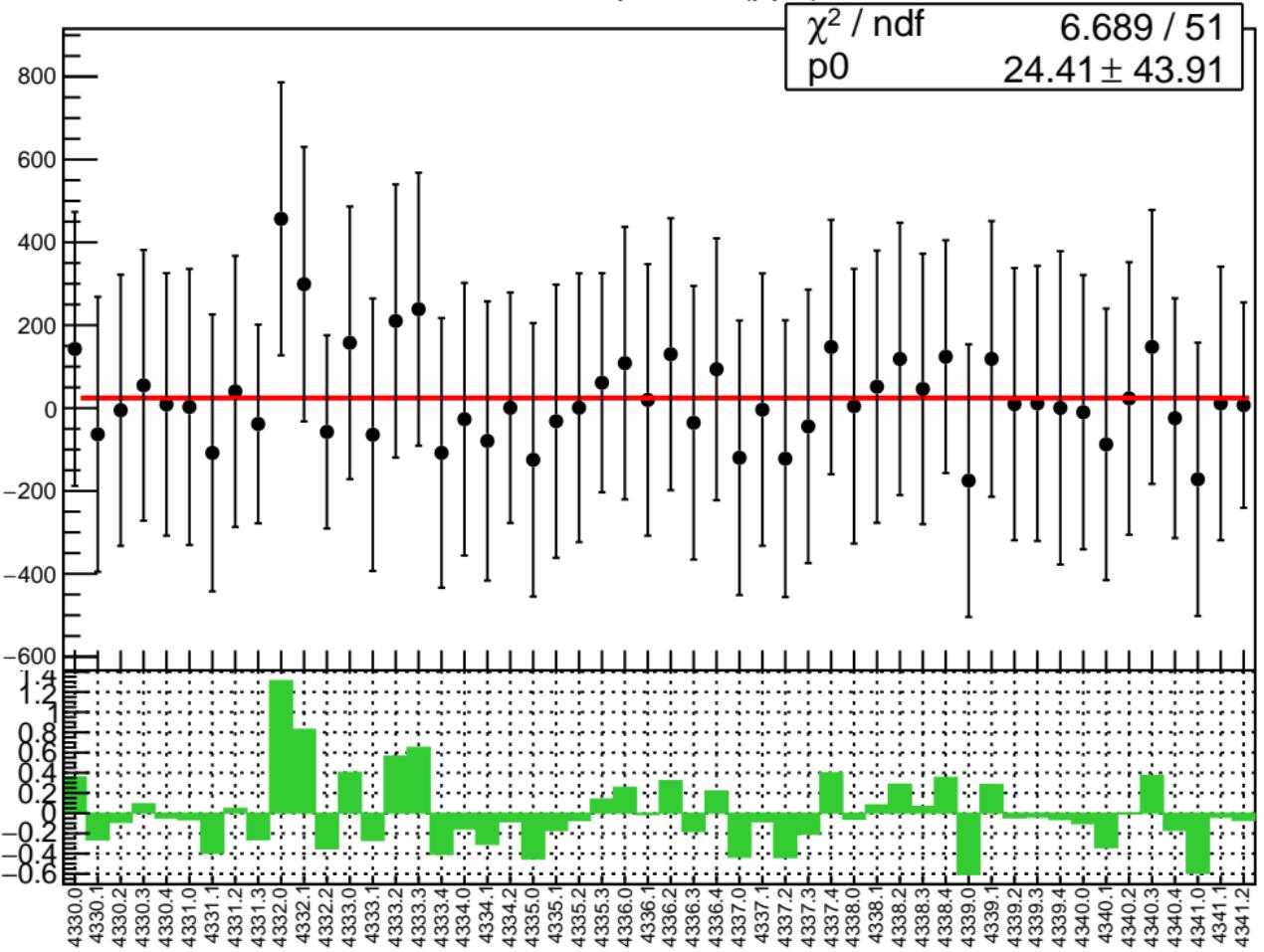


# corr\_usr\_bpm4eX RMS (ppm)

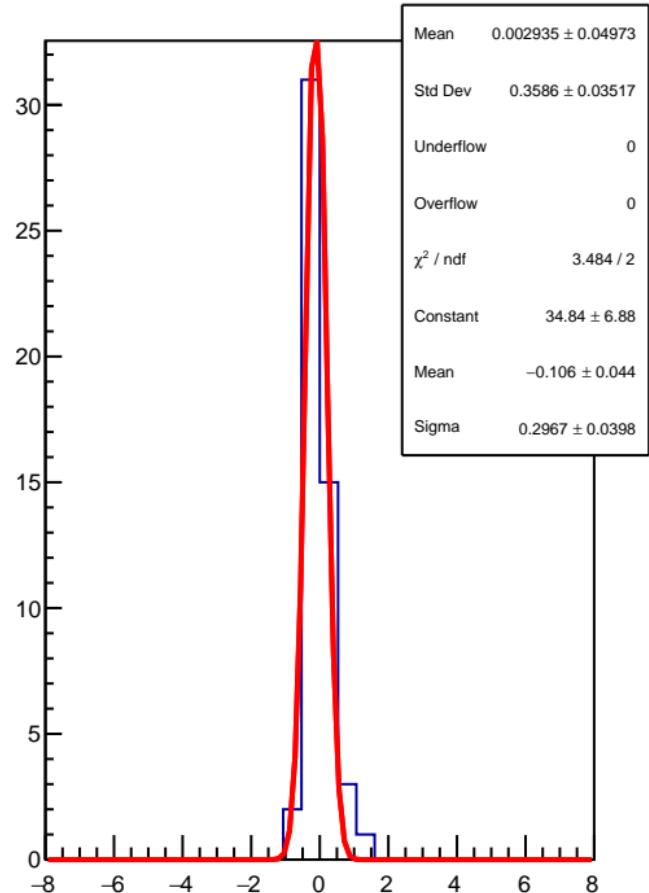
RMS (ppm)



corr\_usr\_bpm4eY (ppb)

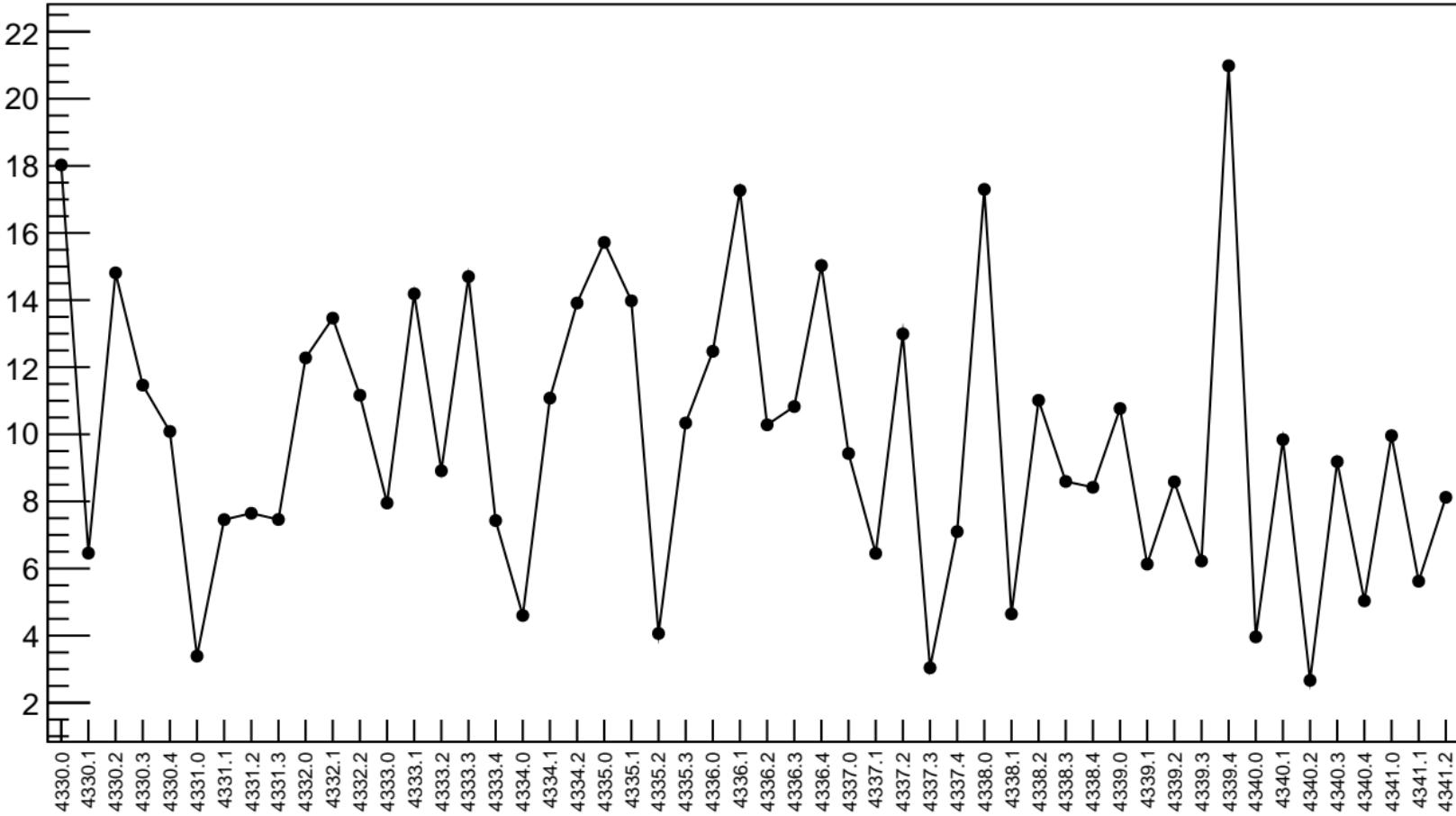


1D pull distribution



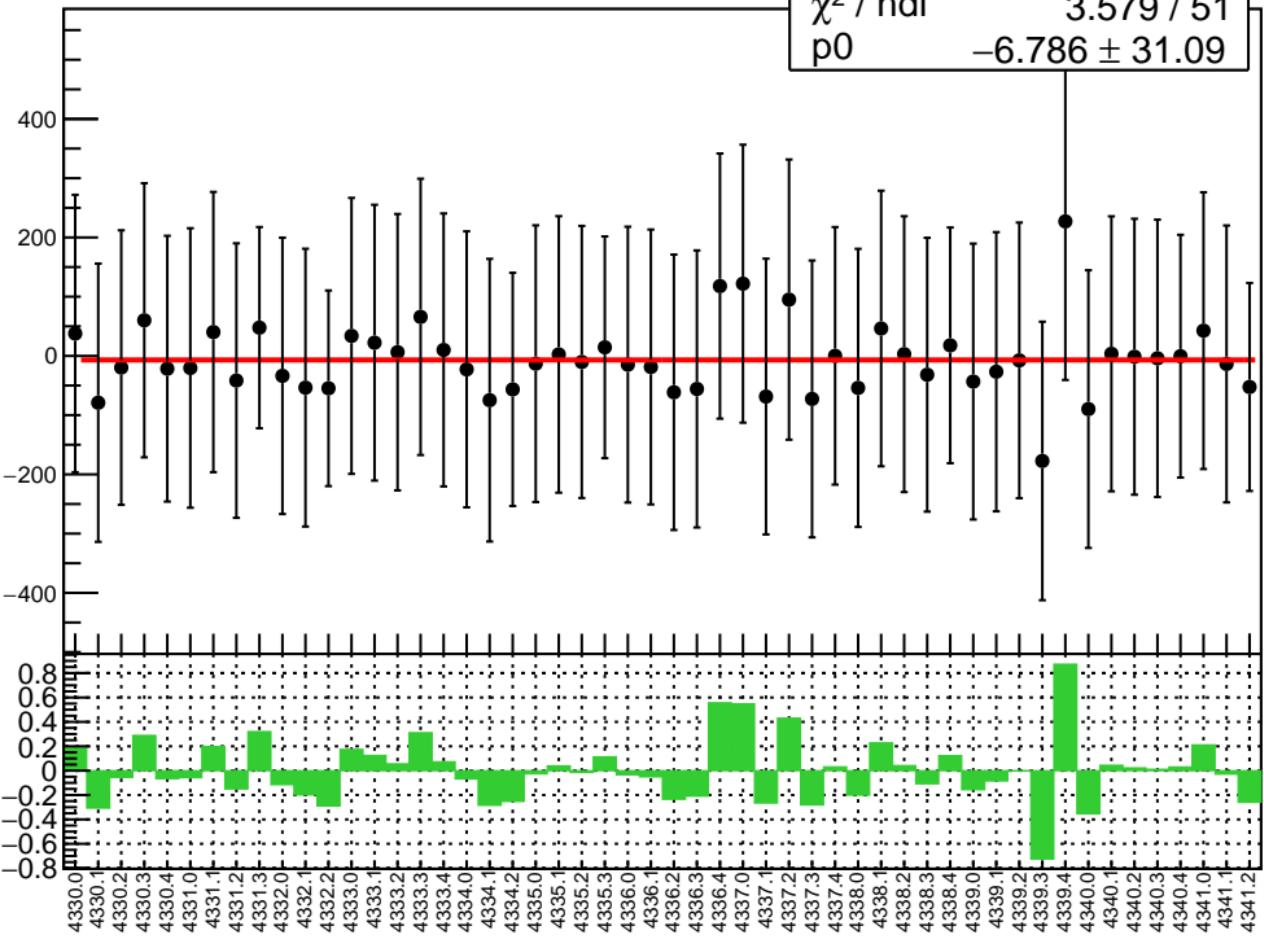
# corr\_usr\_bpm4eY RMS (ppm)

RMS (ppm)

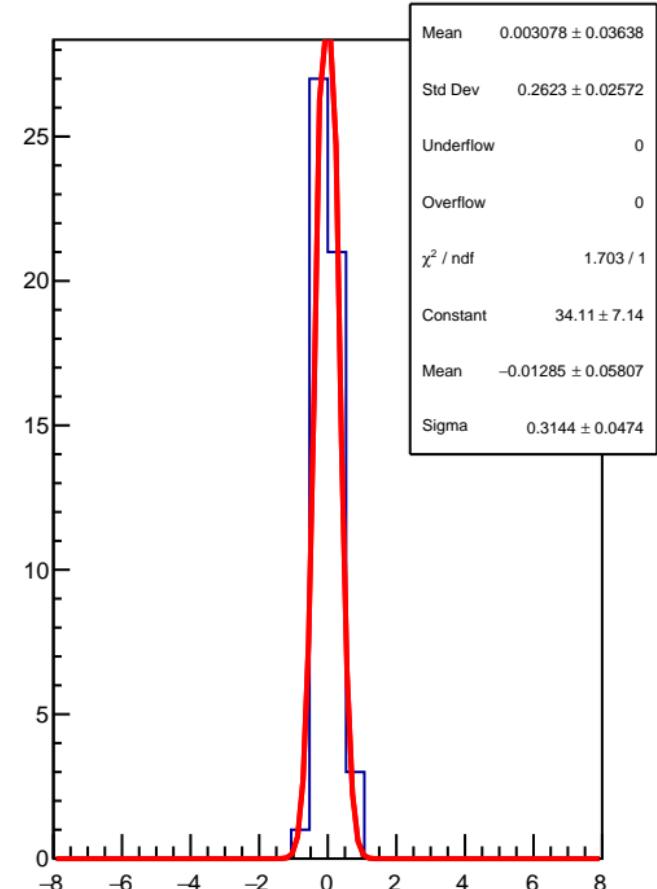


corr\_usr\_bpm4aX (ppb)

$\chi^2 / \text{ndf}$  3.579 / 51  
p0  $-6.786 \pm 31.09$

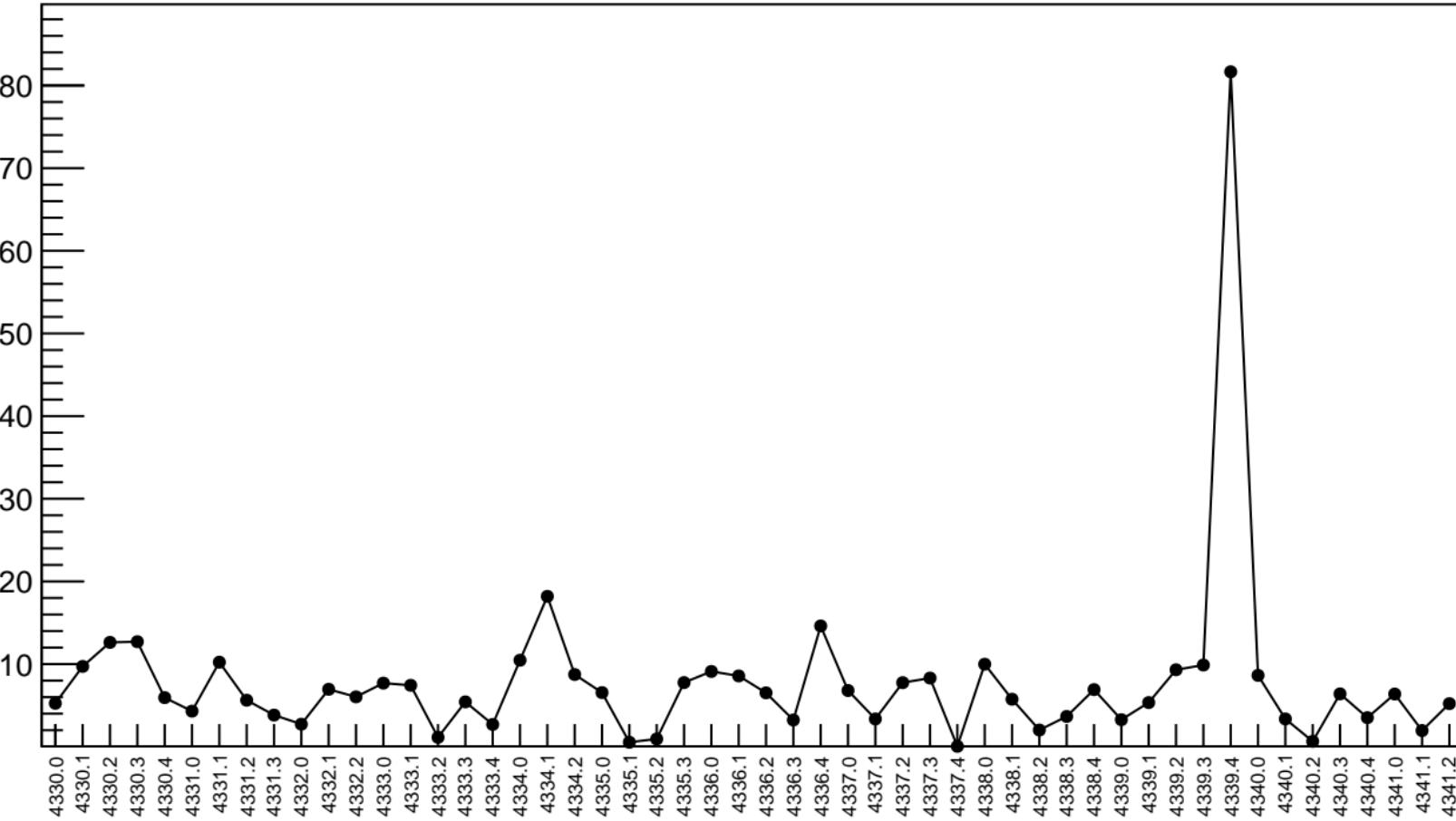


1D pull distribution



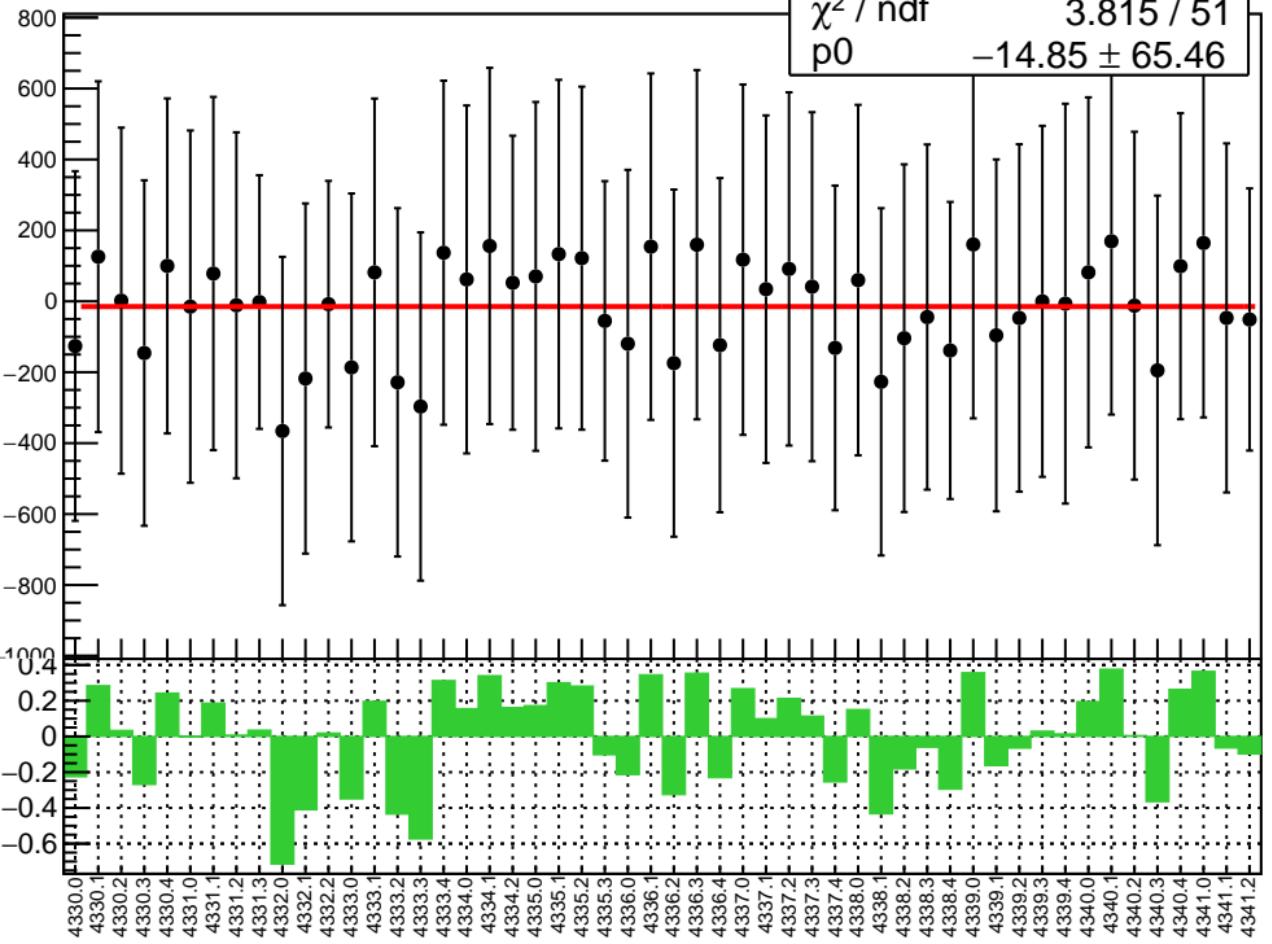
# corr\_usr\_bpm4aX RMS (ppm)

RMS (ppm)

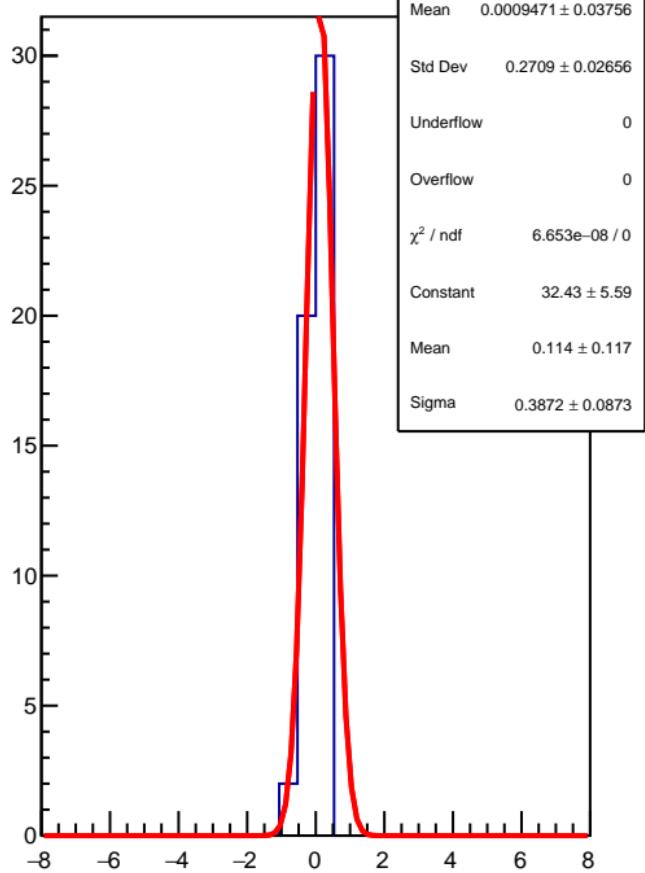


corr\_usr\_bpm4aY (ppb)

$\chi^2 / \text{ndf}$  3.815 / 51  
 $p_0$   $-14.85 \pm 65.46$

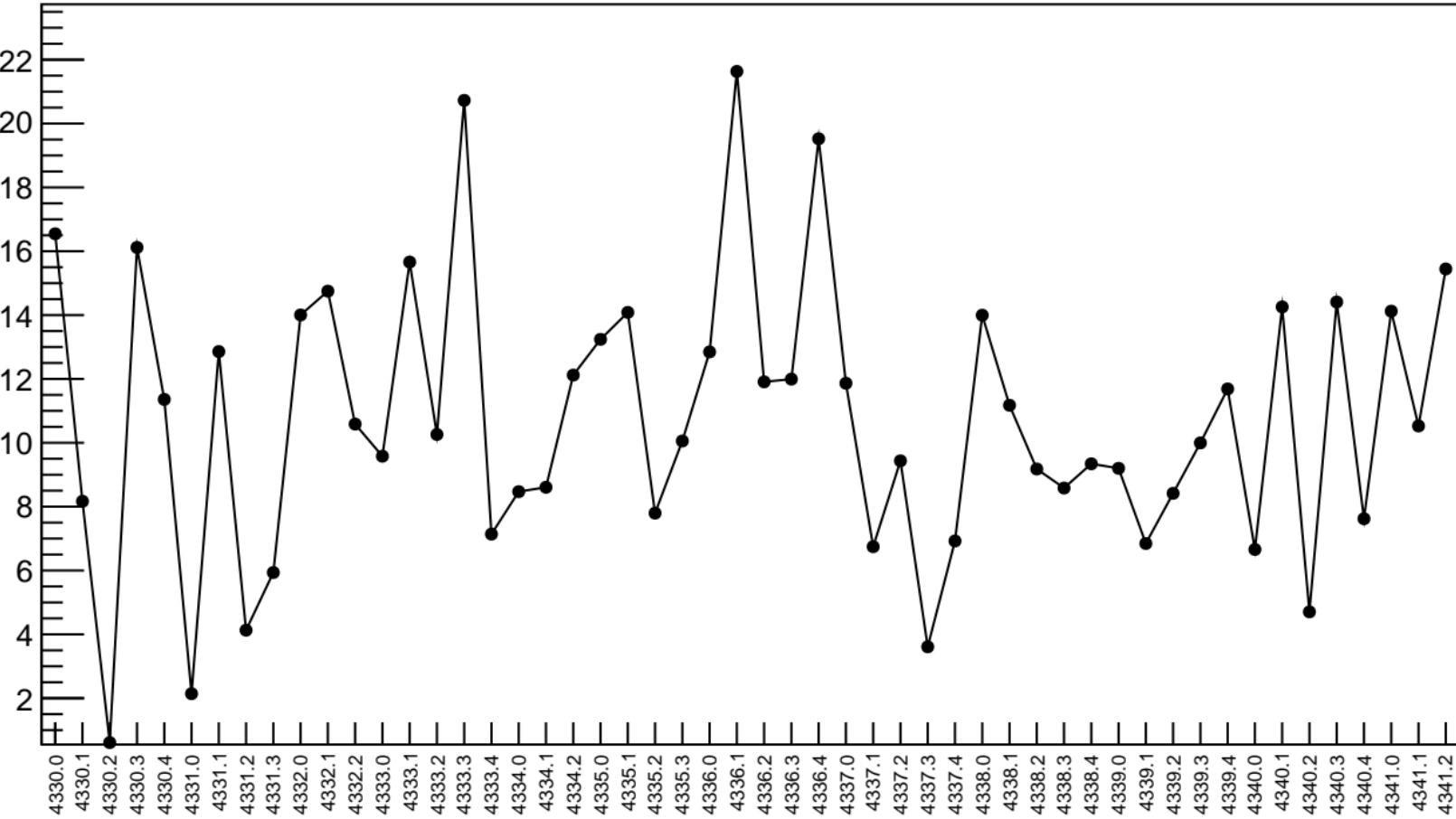


1D pull distribution



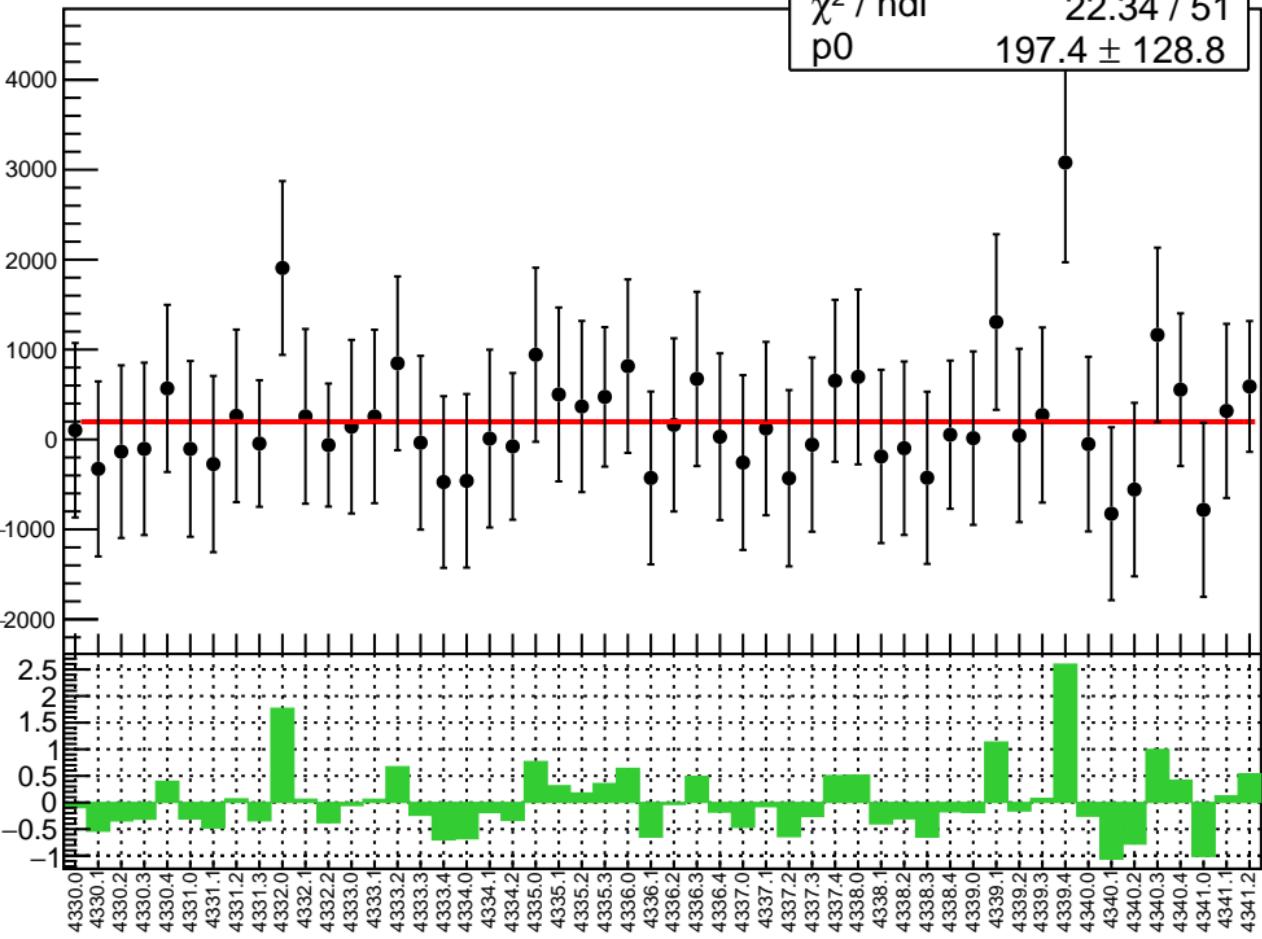
# corr\_usr\_bpm4aY RMS (ppm)

RMS (ppm)

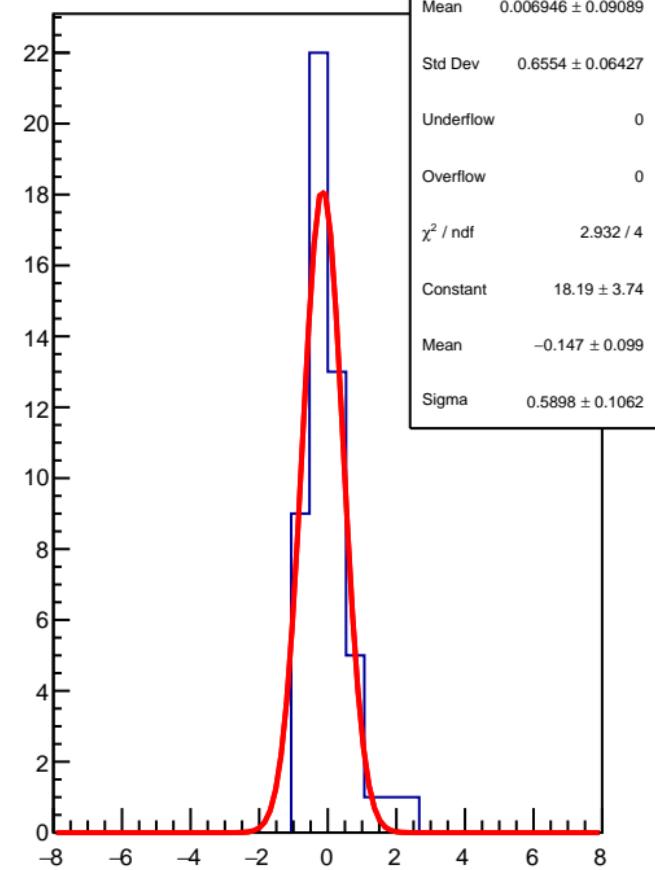


corr\_usr\_bpm1X (ppb)

$\chi^2 / \text{ndf}$  22.34 / 51  
p0  $197.4 \pm 128.8$

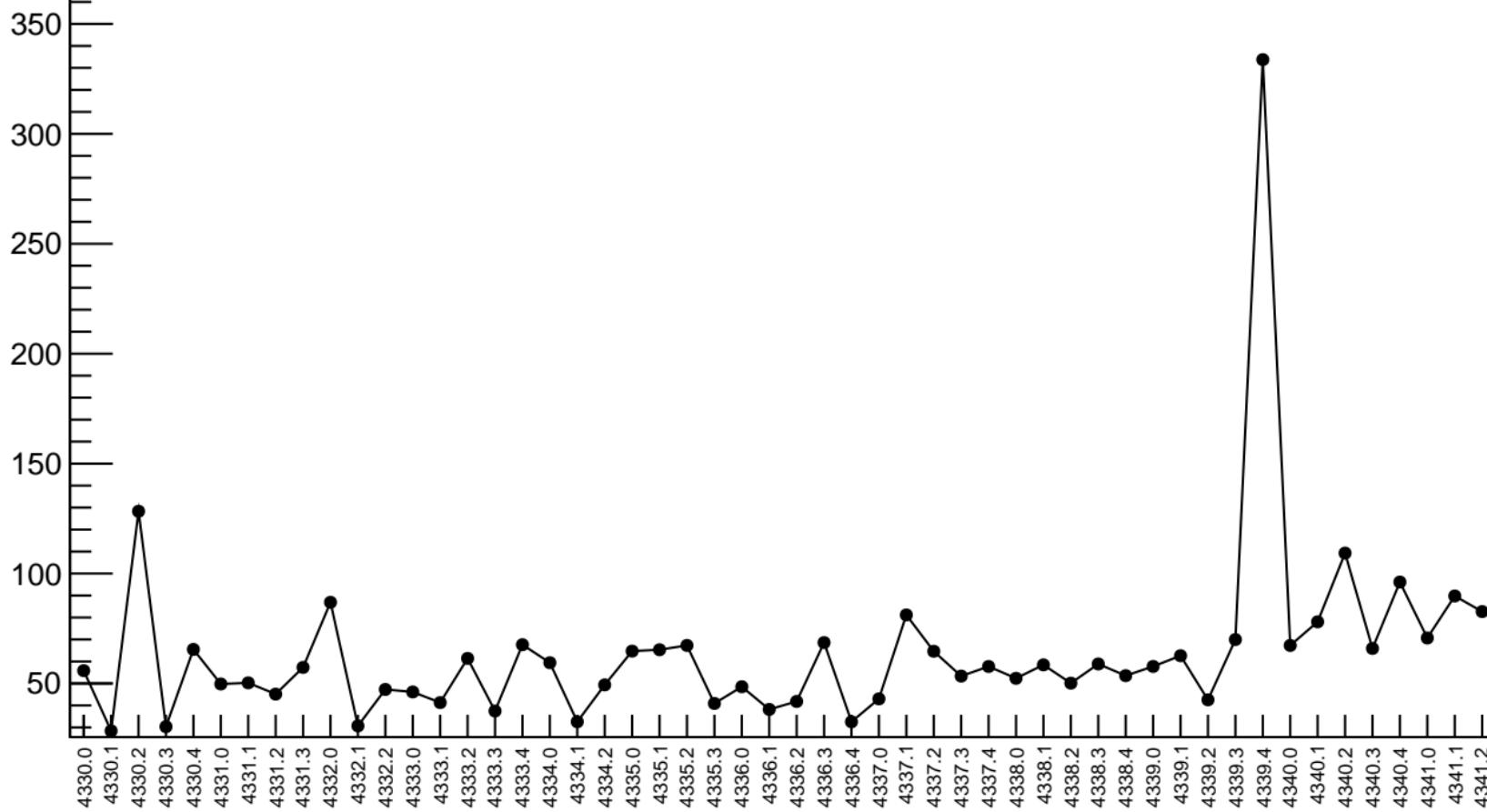


1D pull distribution



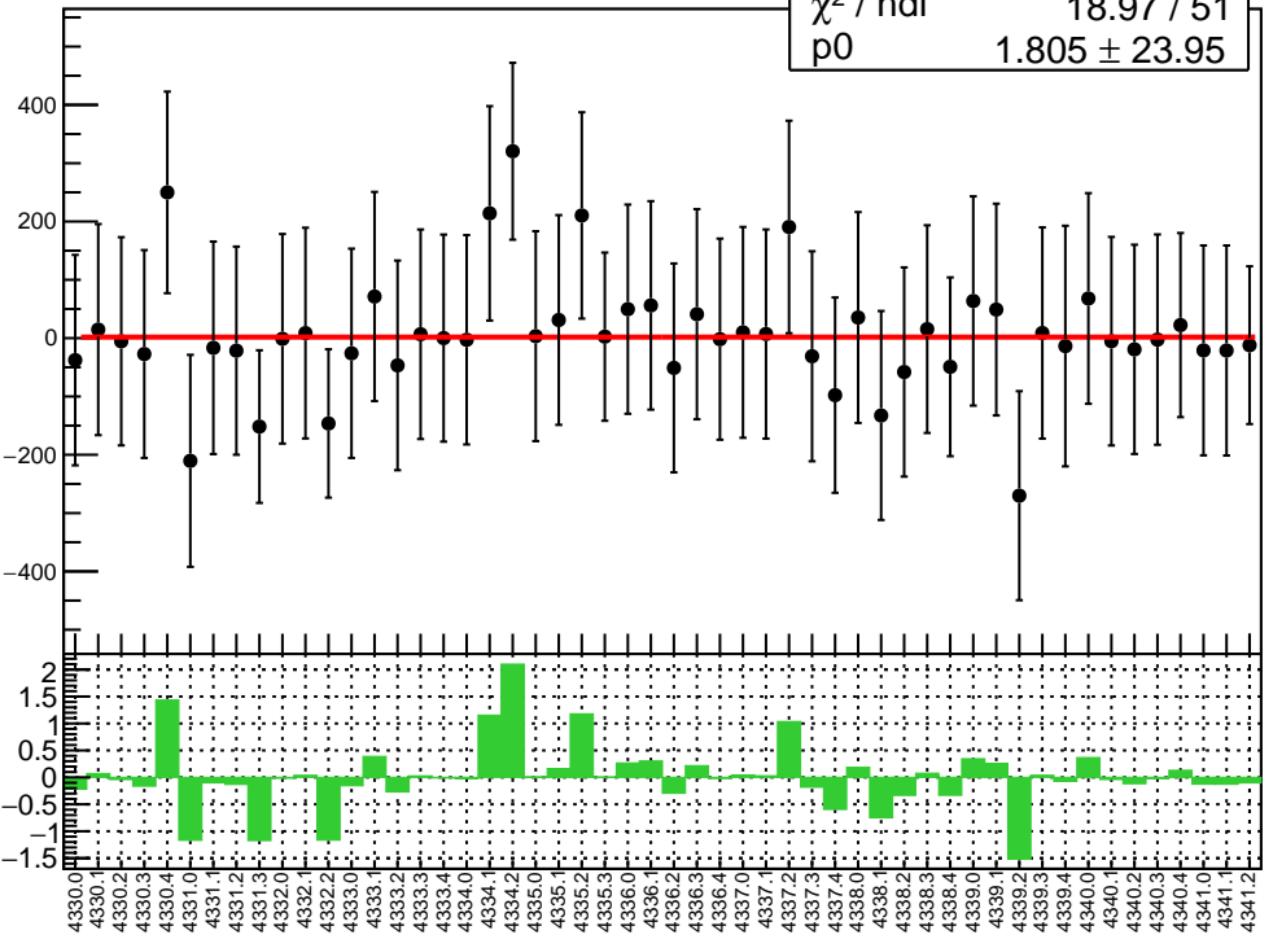
# corr\_usr\_bpm1X RMS (ppm)

RMS (ppm)

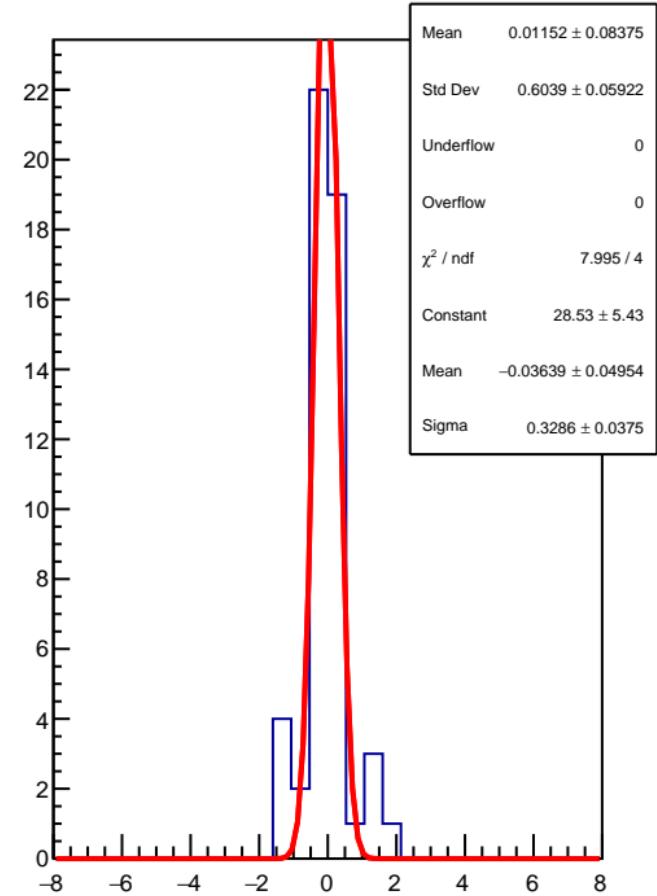


corr\_usr\_bpm1Y (ppb)

$\chi^2 / \text{ndf}$  18.97 / 51  
 $p_0$   $1.805 \pm 23.95$

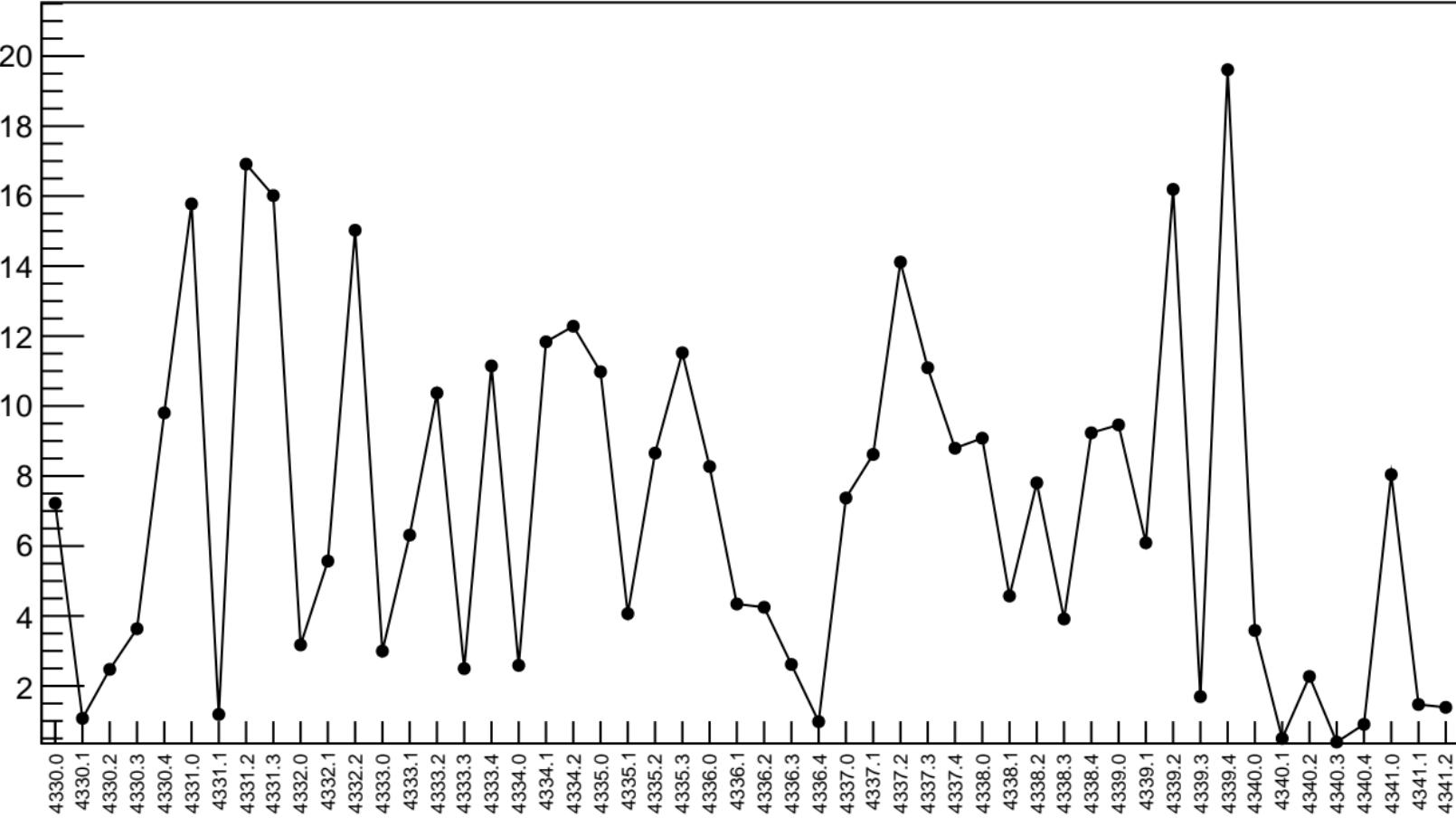


1D pull distribution

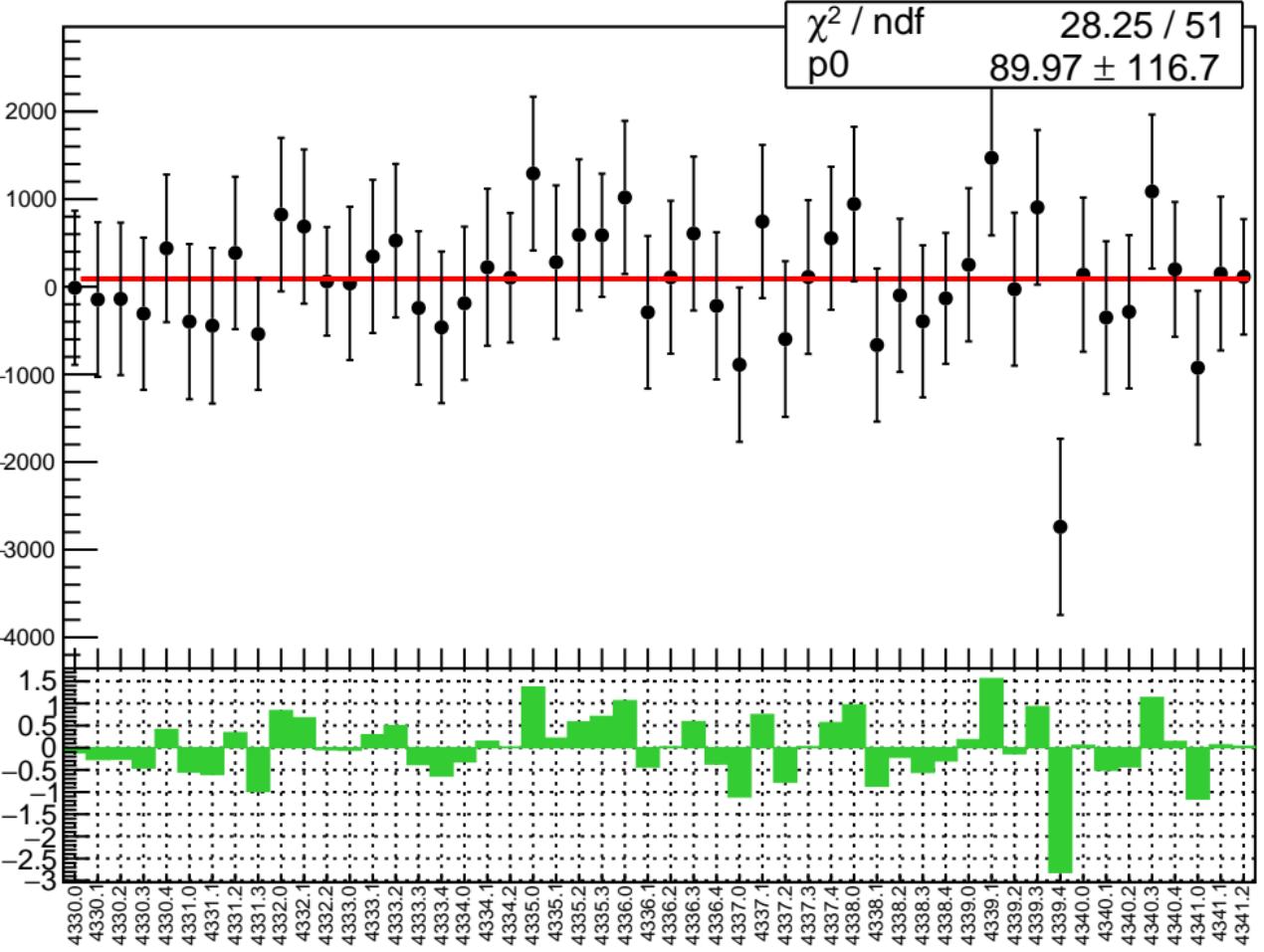


# corr\_usr\_bpm1Y RMS (ppm)

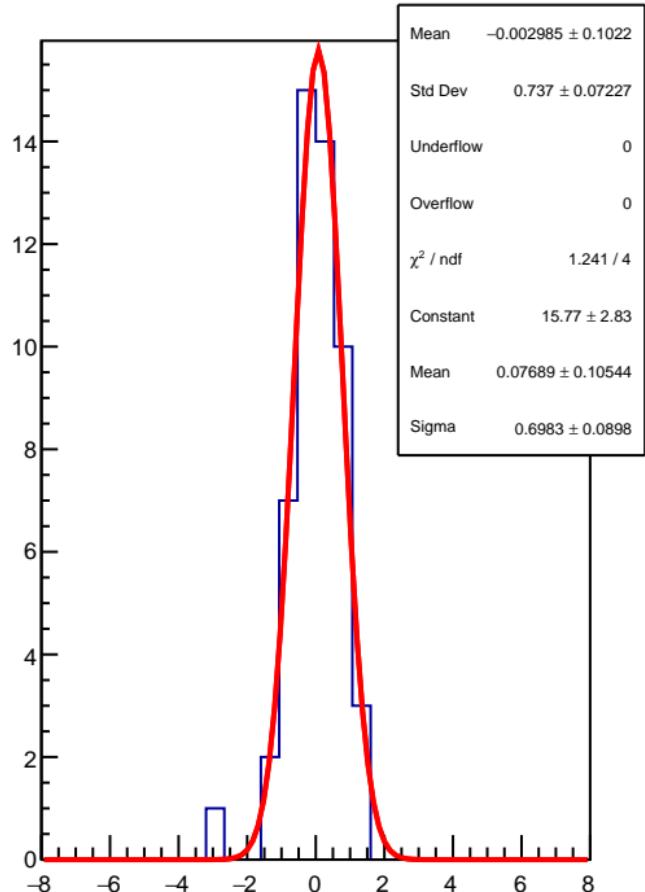
RMS (ppm)



corr\_usr\_bpm16X (ppb)

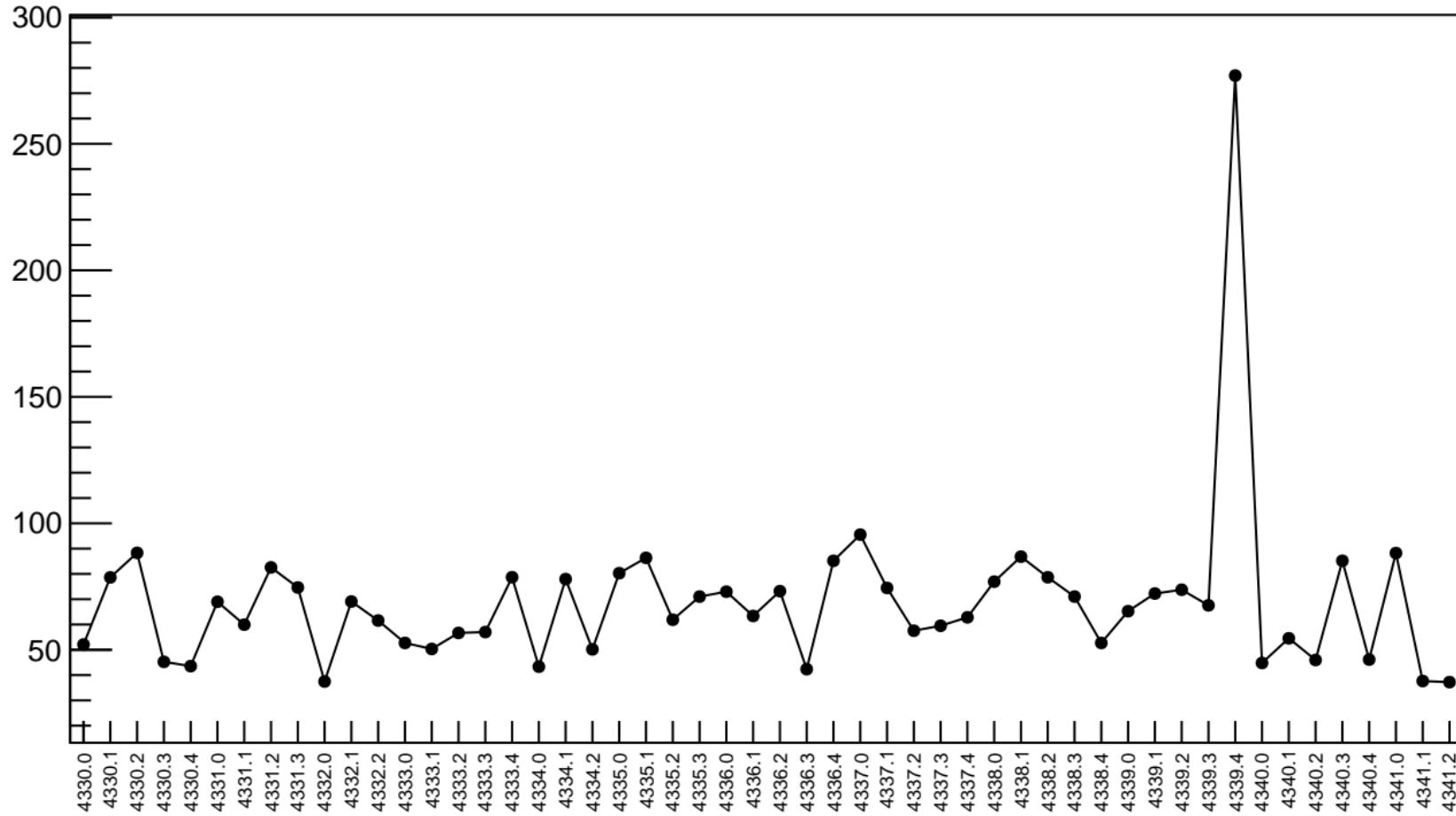


1D pull distribution



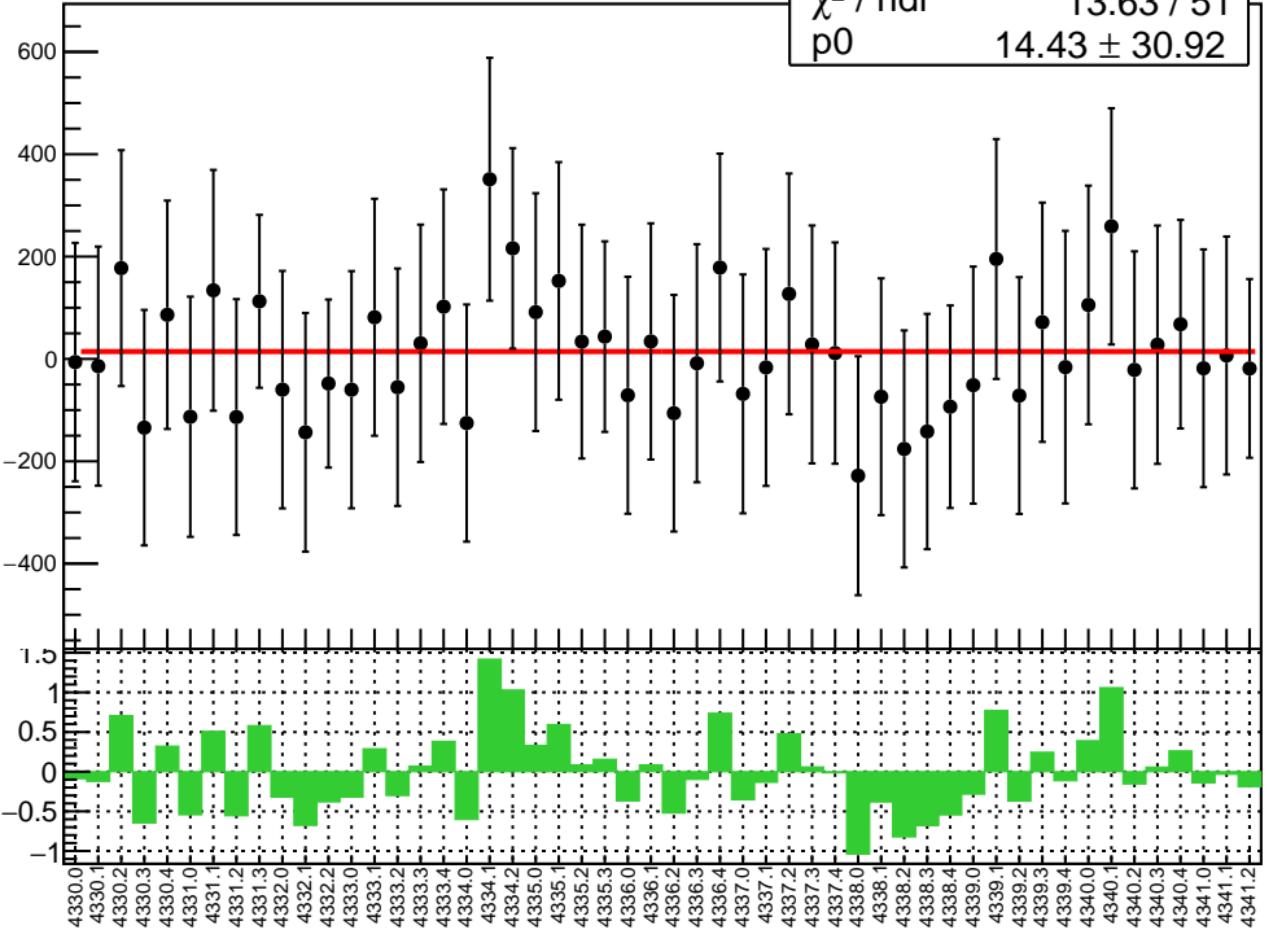
# corr\_usr\_bpm16X RMS (ppm)

RMS (ppm)

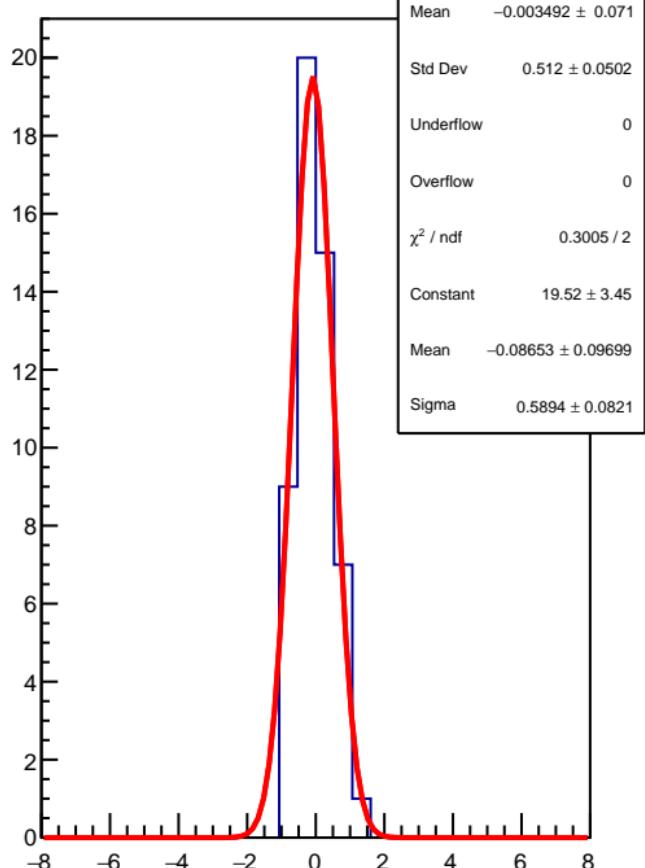


corr\_usr\_bpm16Y (ppb)

$\chi^2 / \text{ndf}$  13.63 / 51  
 $p_0$   $14.43 \pm 30.92$

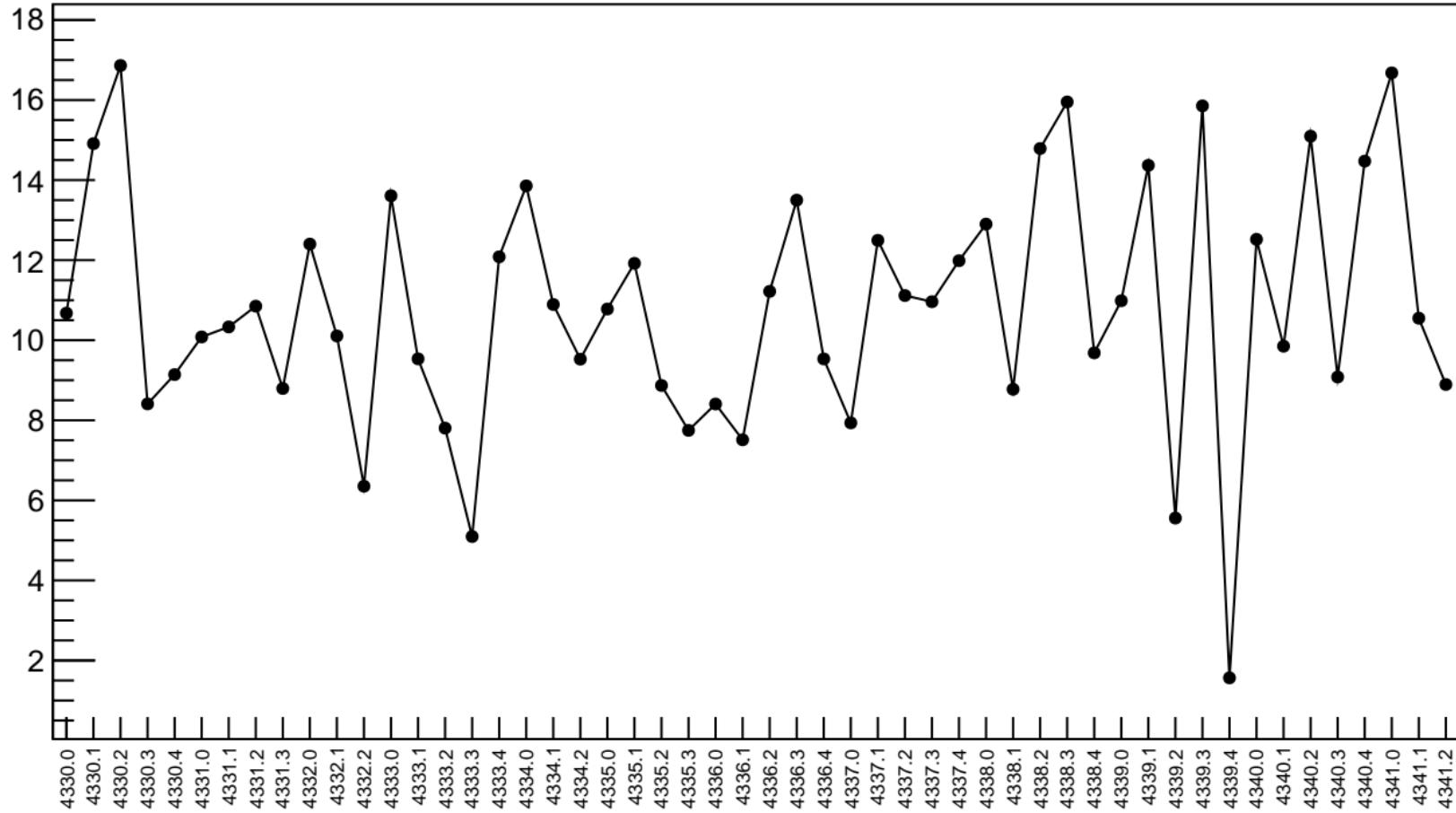


1D pull distribution

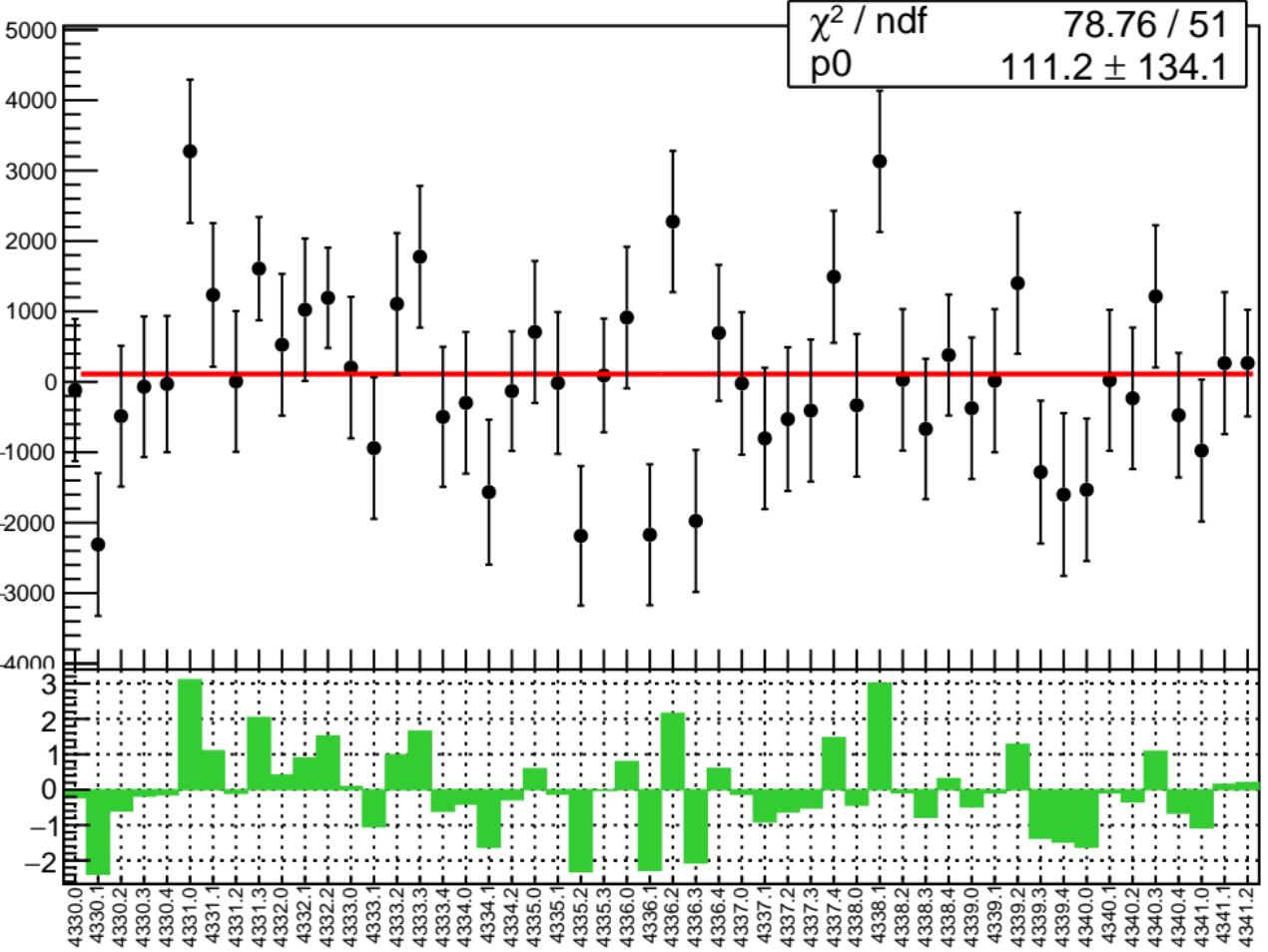


# corr\_usr\_bpm16Y RMS (ppm)

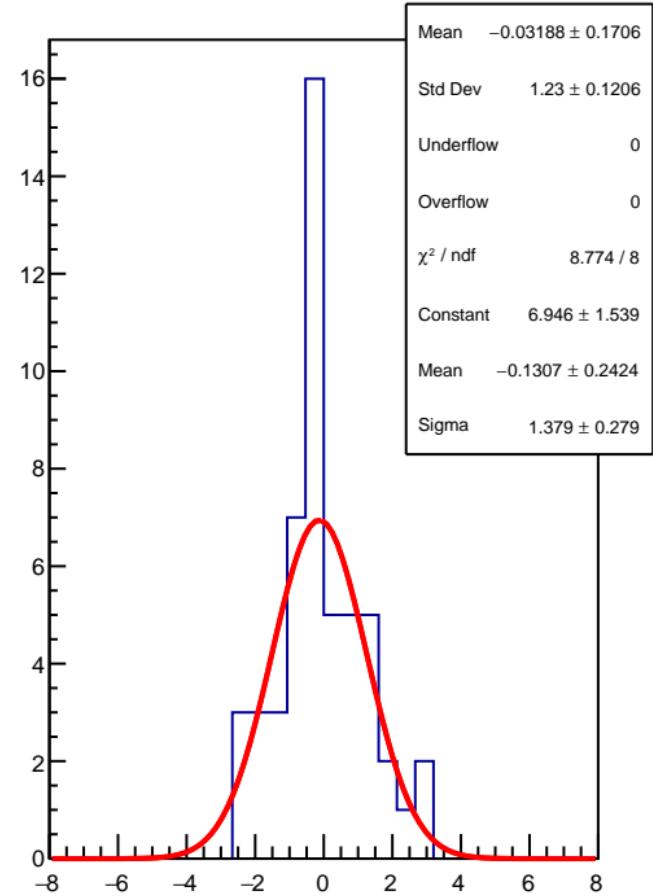
RMS (ppm)



corr\_usr\_bpm12X (ppb)

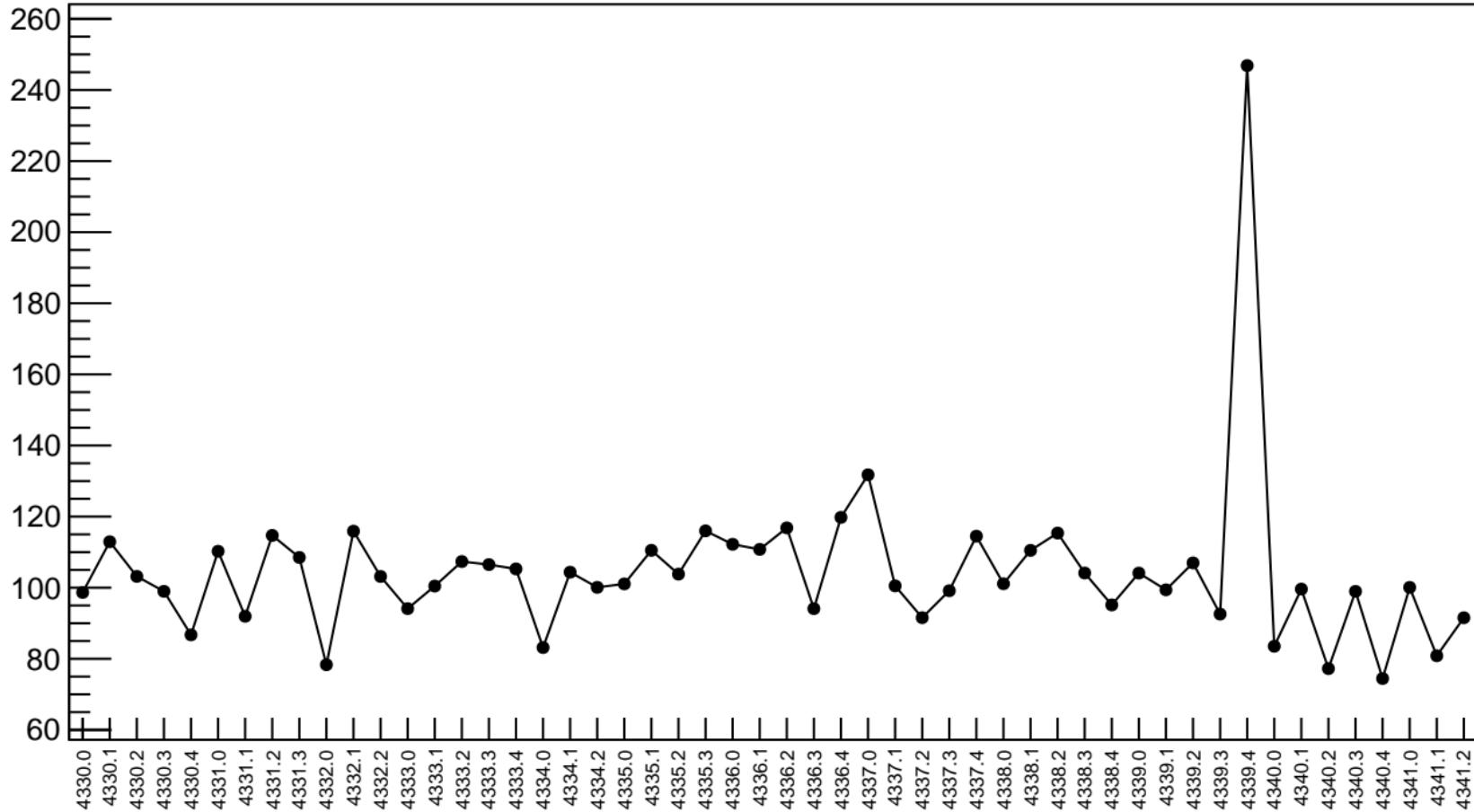


1D pull distribution

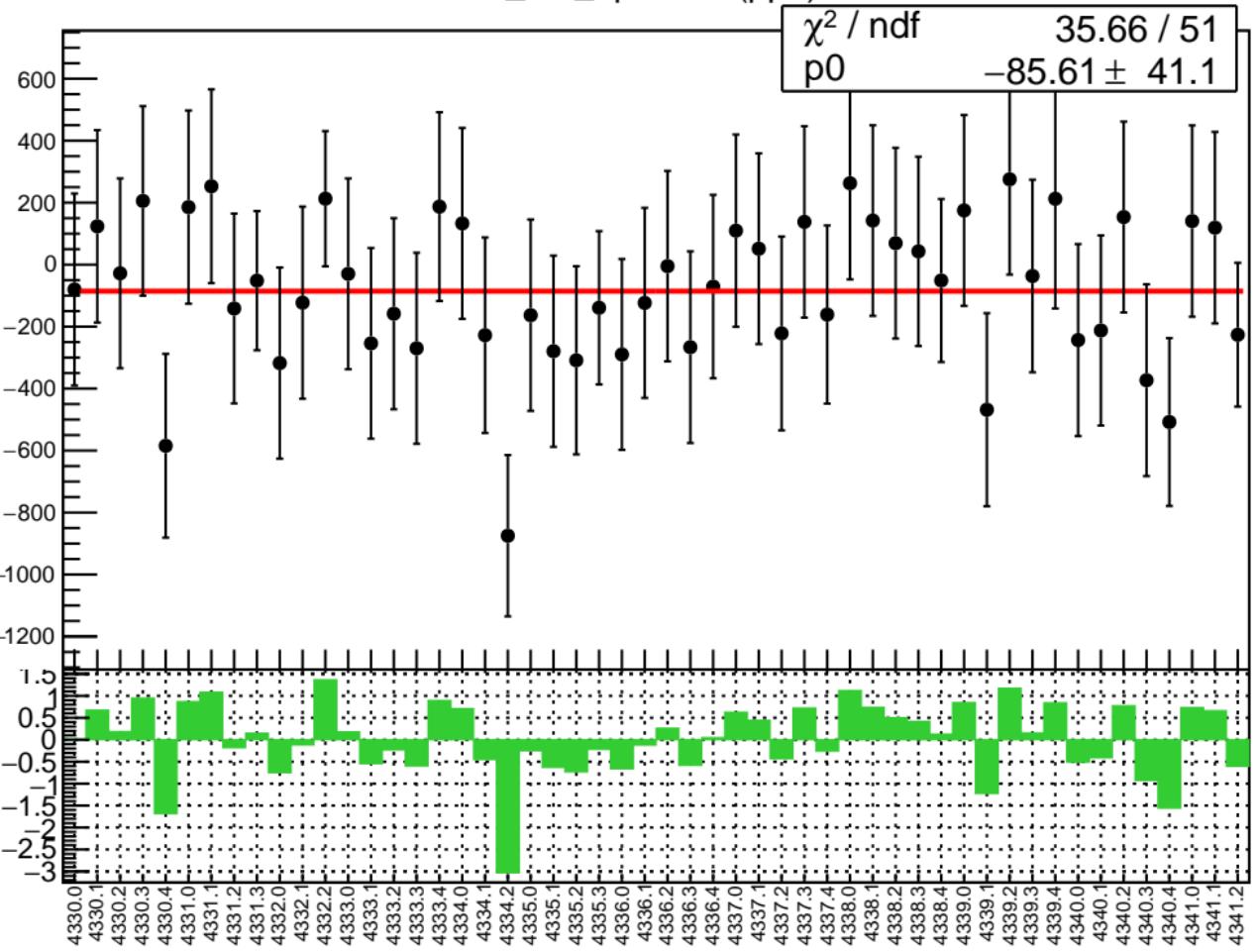


# corr\_usr\_bpm12X RMS (ppm)

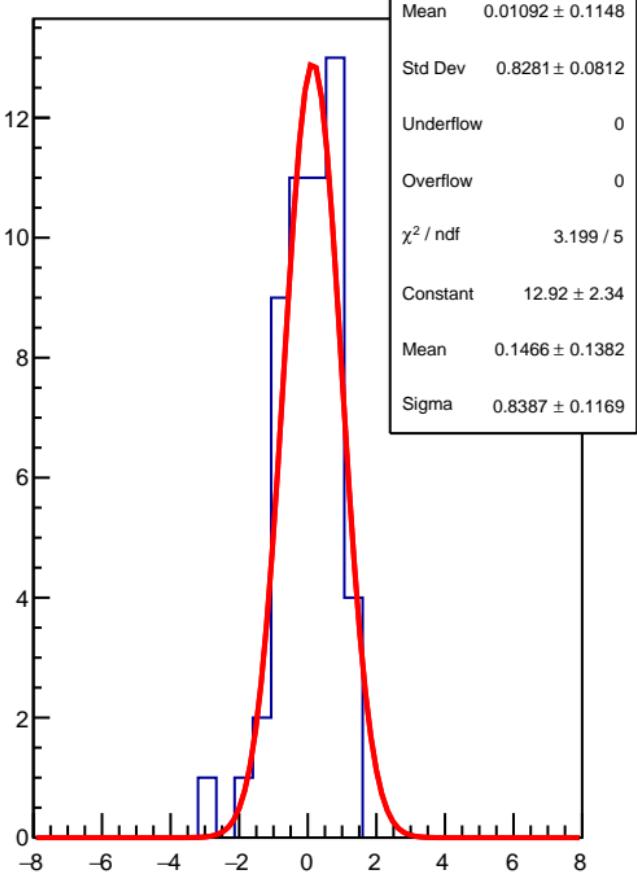
RMS (ppm)



corr\_usr\_bpm12Y (ppb)

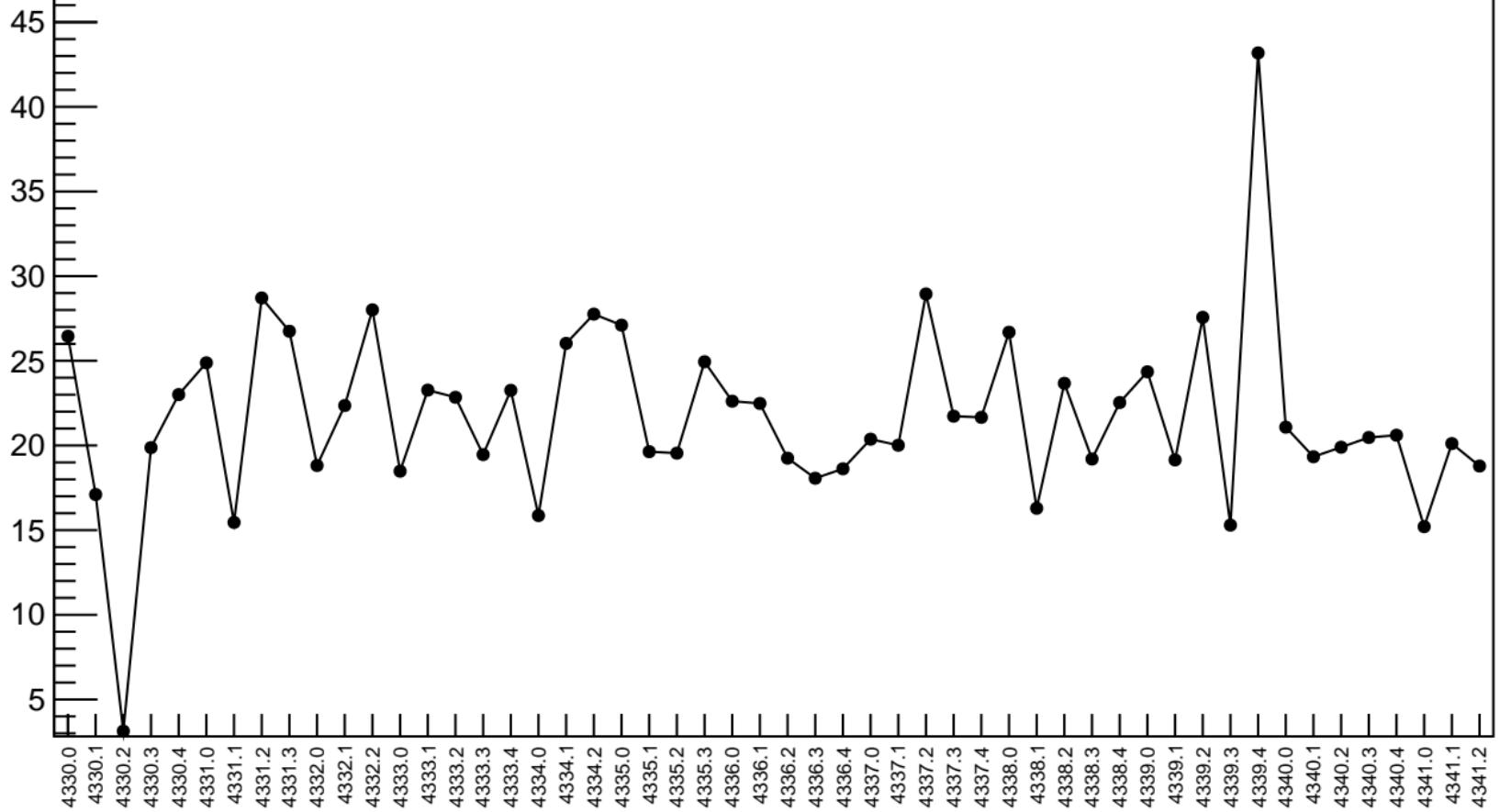


1D pull distribution



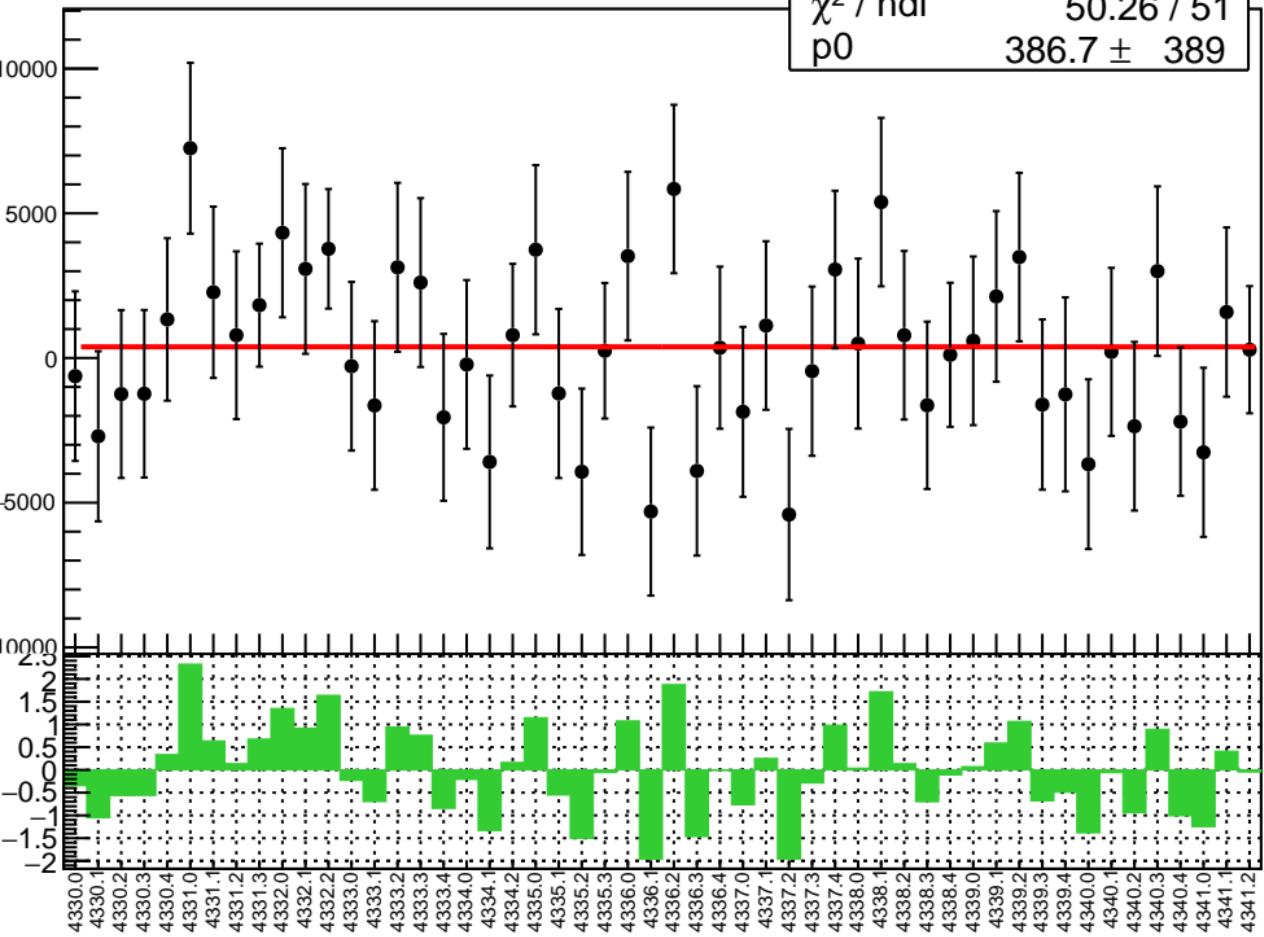
# corr\_usr\_bpm12Y RMS (ppm)

RMS (ppm)

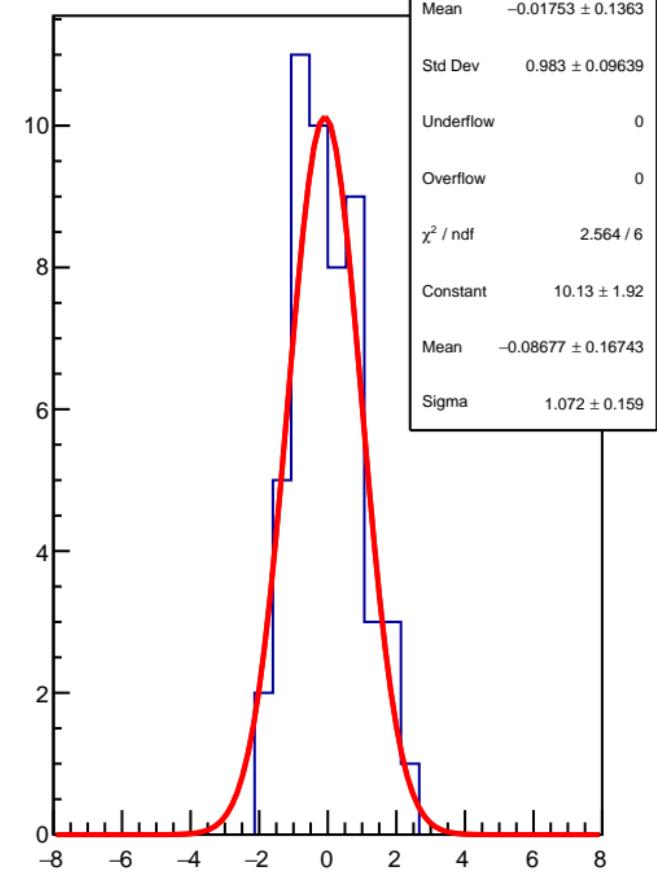


corr\_usr\_bpm11X (ppb)

$\chi^2 / \text{ndf}$  50.26 / 51  
p0  $386.7 \pm 389$

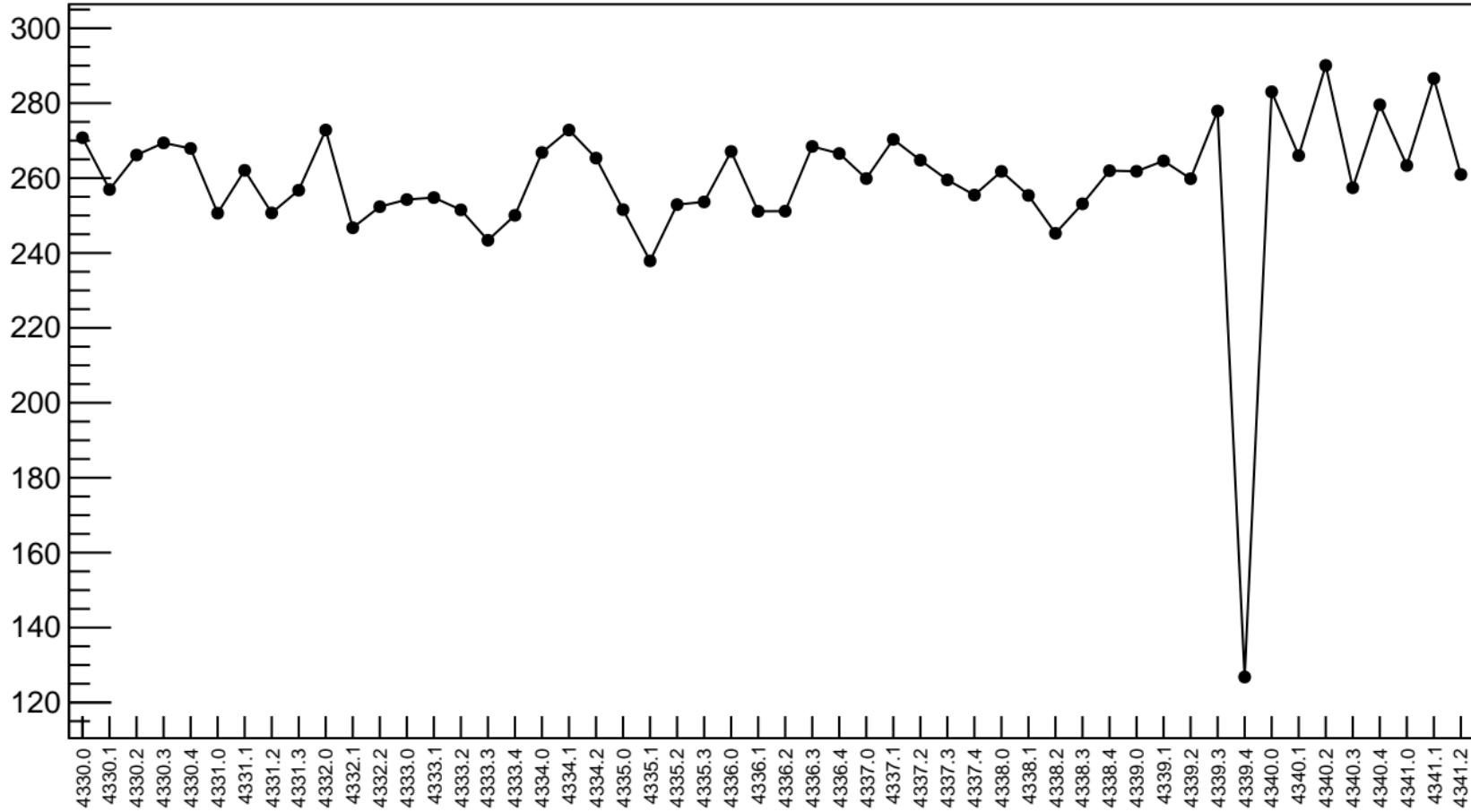


1D pull distribution

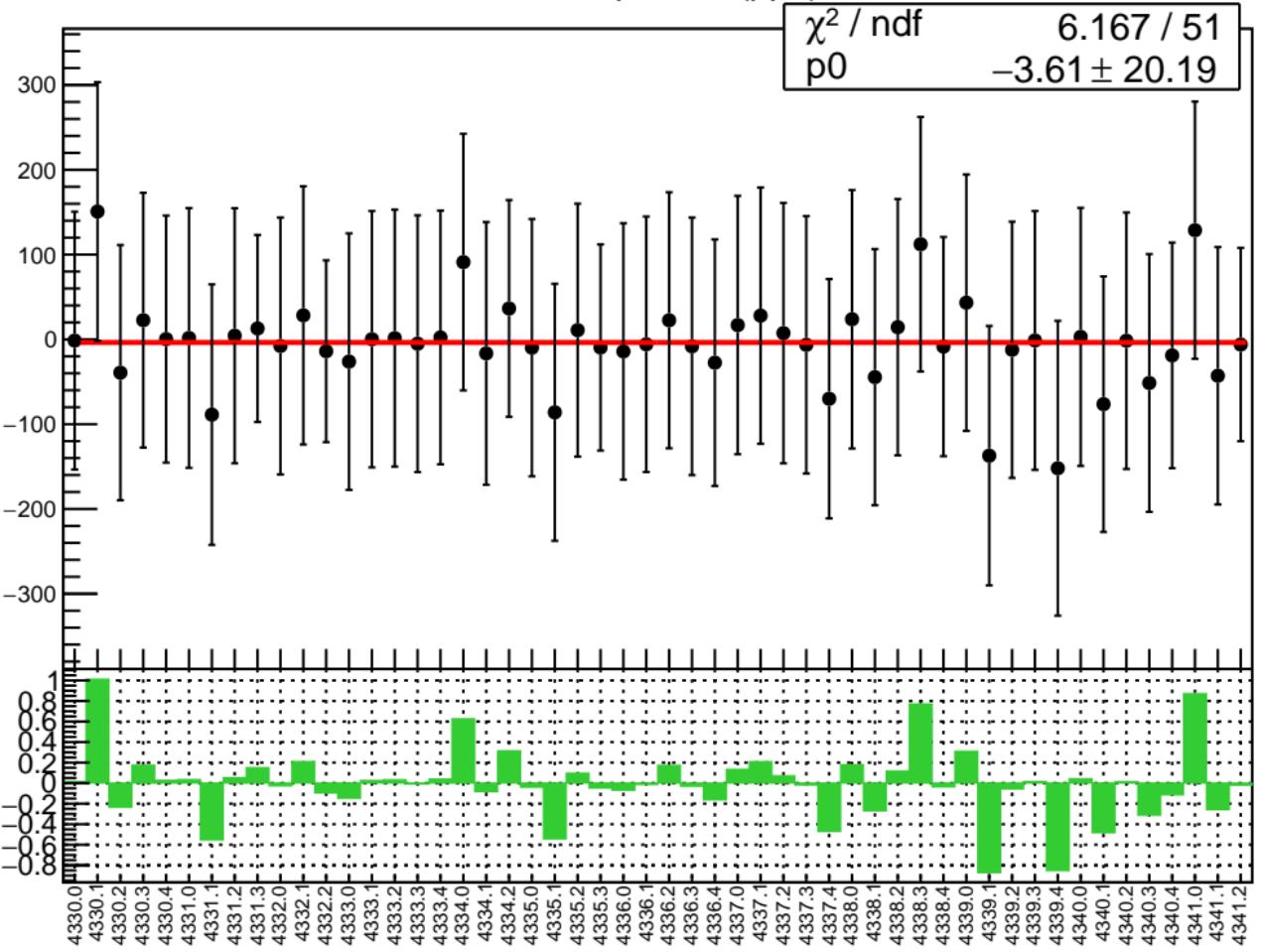


# corr\_usr\_bpm11X RMS (ppm)

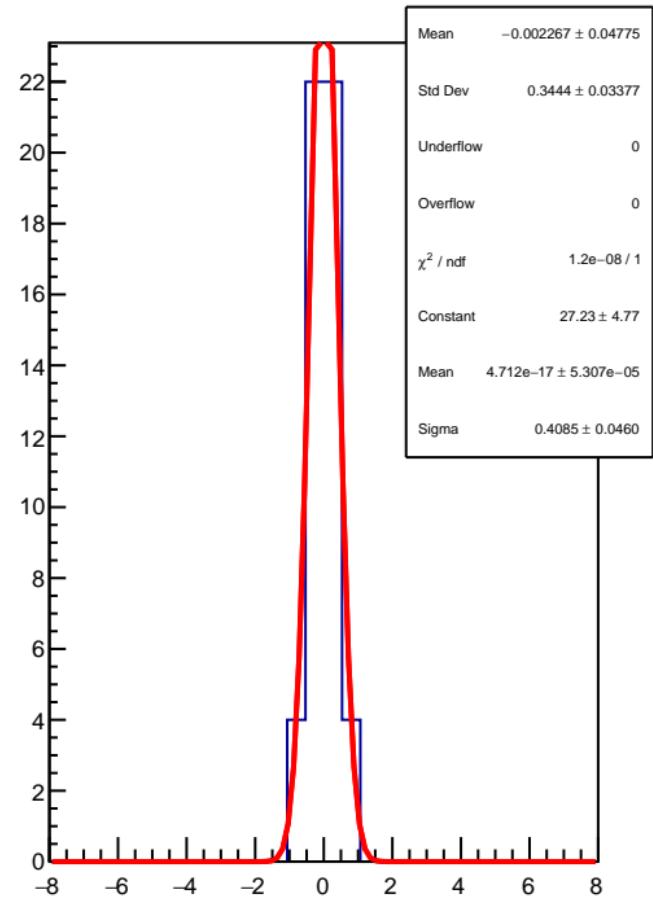
RMS (ppm)



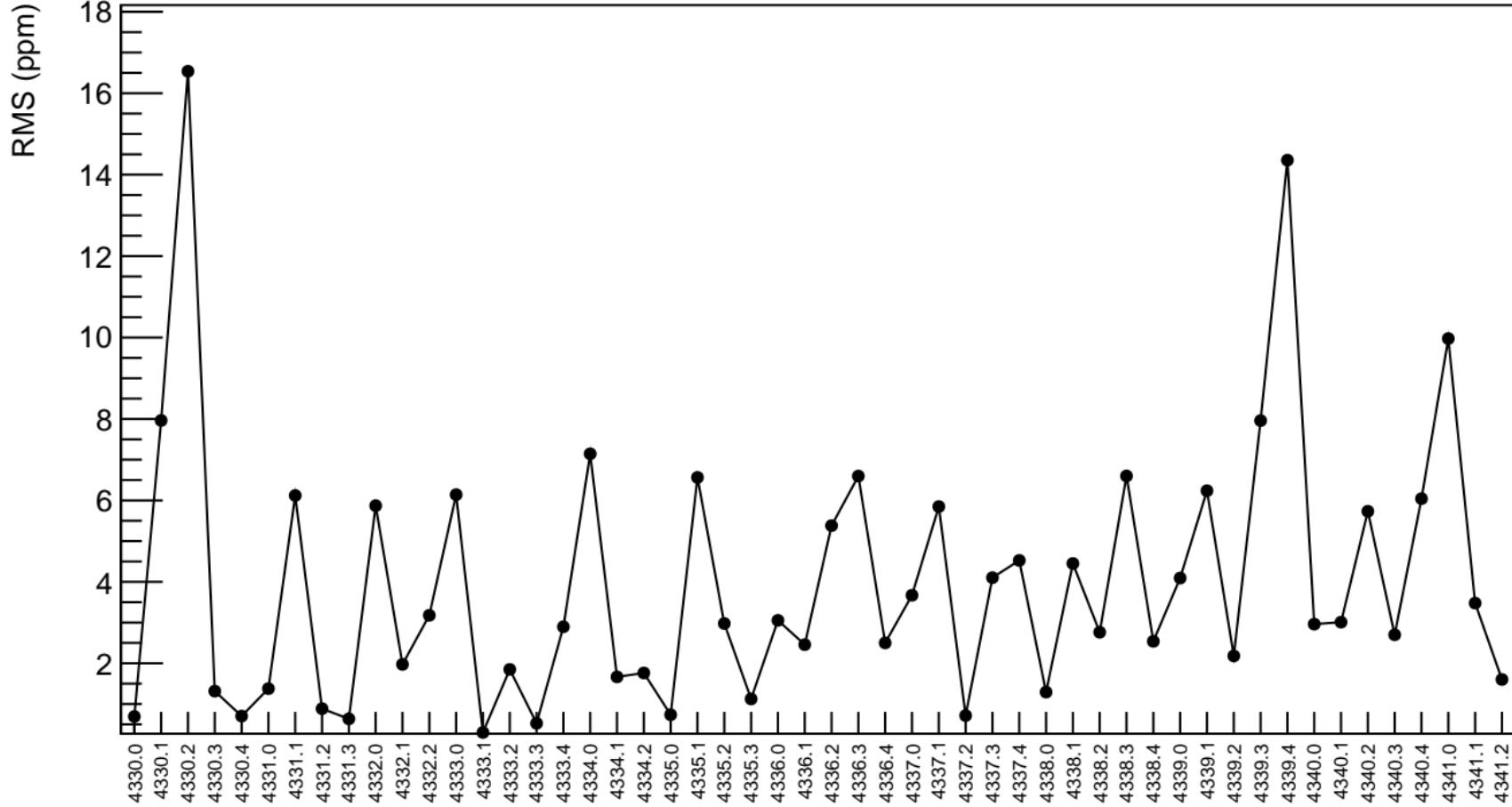
corr\_usr\_bpm11Y (ppb)



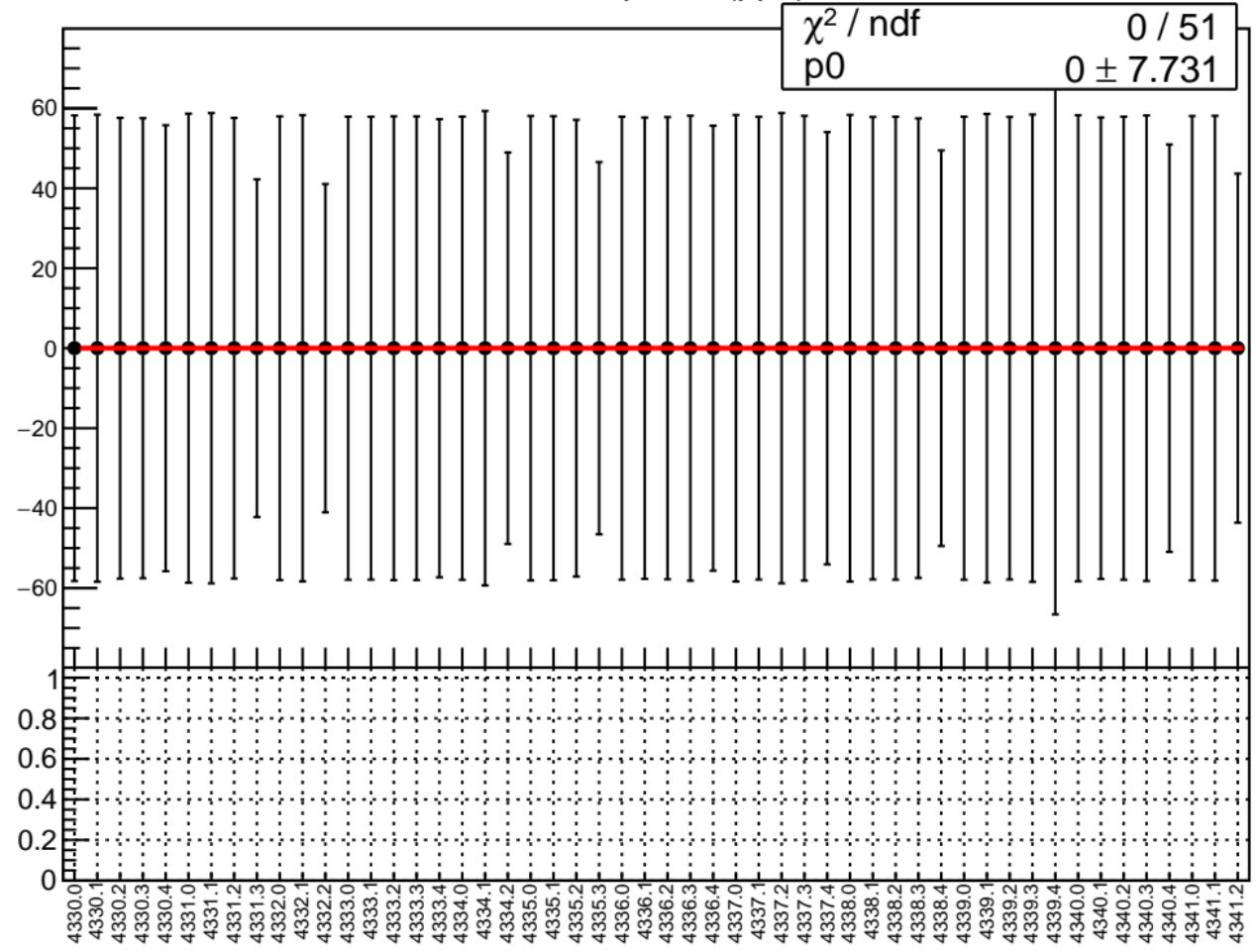
1D pull distribution



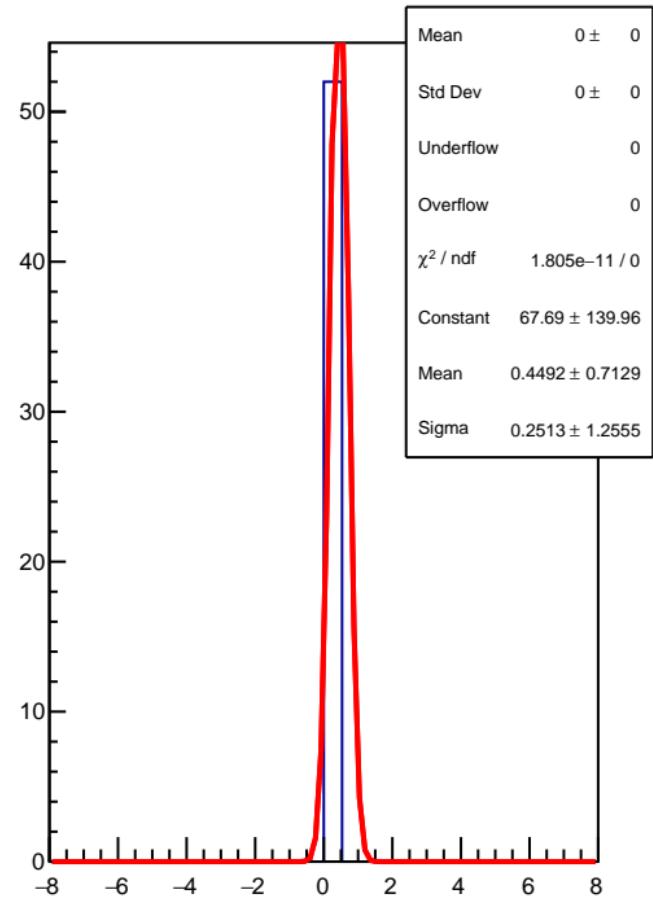
# corr\_usr\_bpm11Y RMS (ppm)



corr\_usr\_bpm8X (ppb)

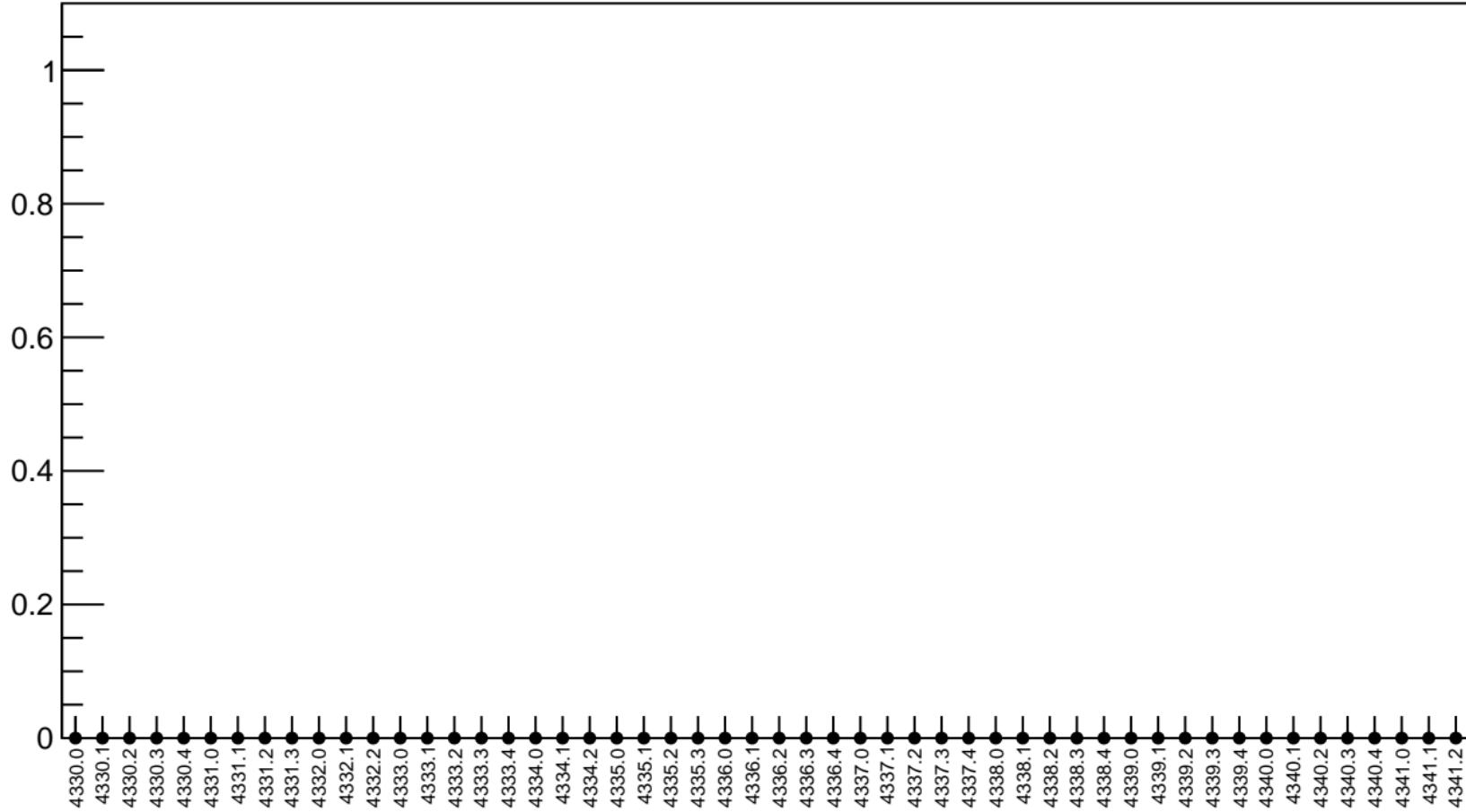


1D pull distribution

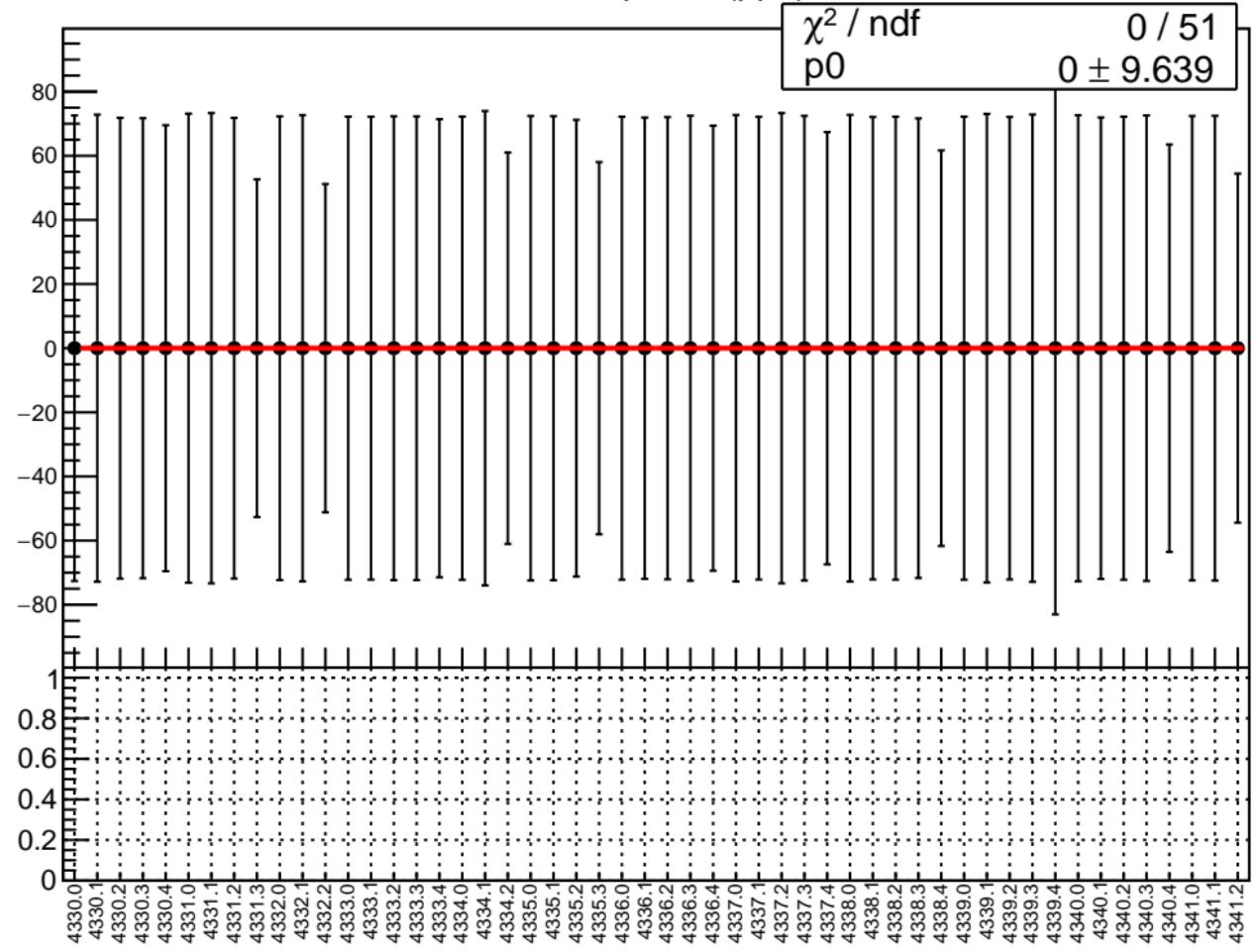


# corr\_usr\_bpm8X RMS (ppm)

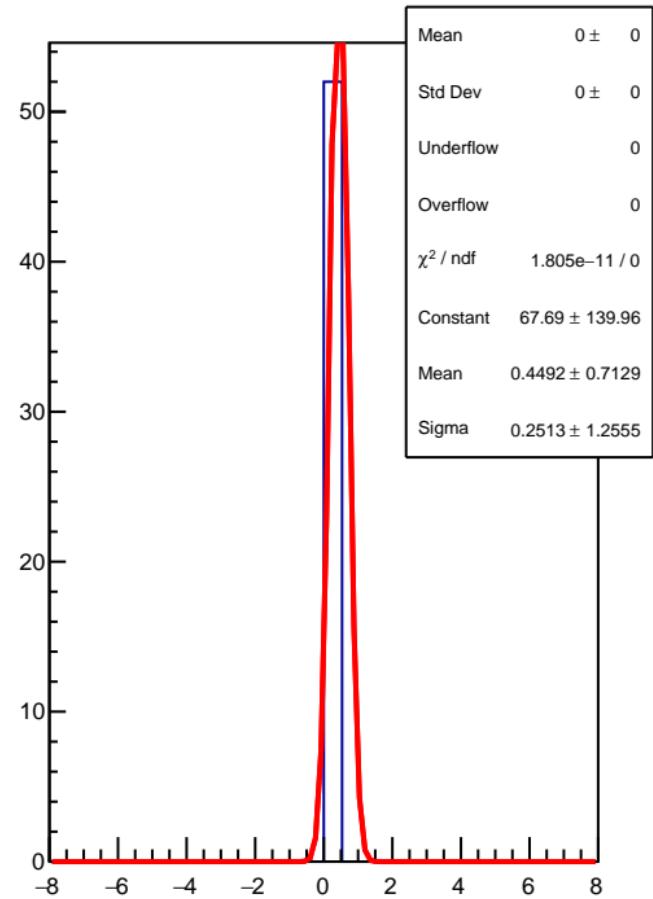
RMS (ppm)



corr\_usr\_bpm8Y (ppb)



1D pull distribution



# corr\_usr\_bpm8Y RMS (ppm)

RMS (ppm)

