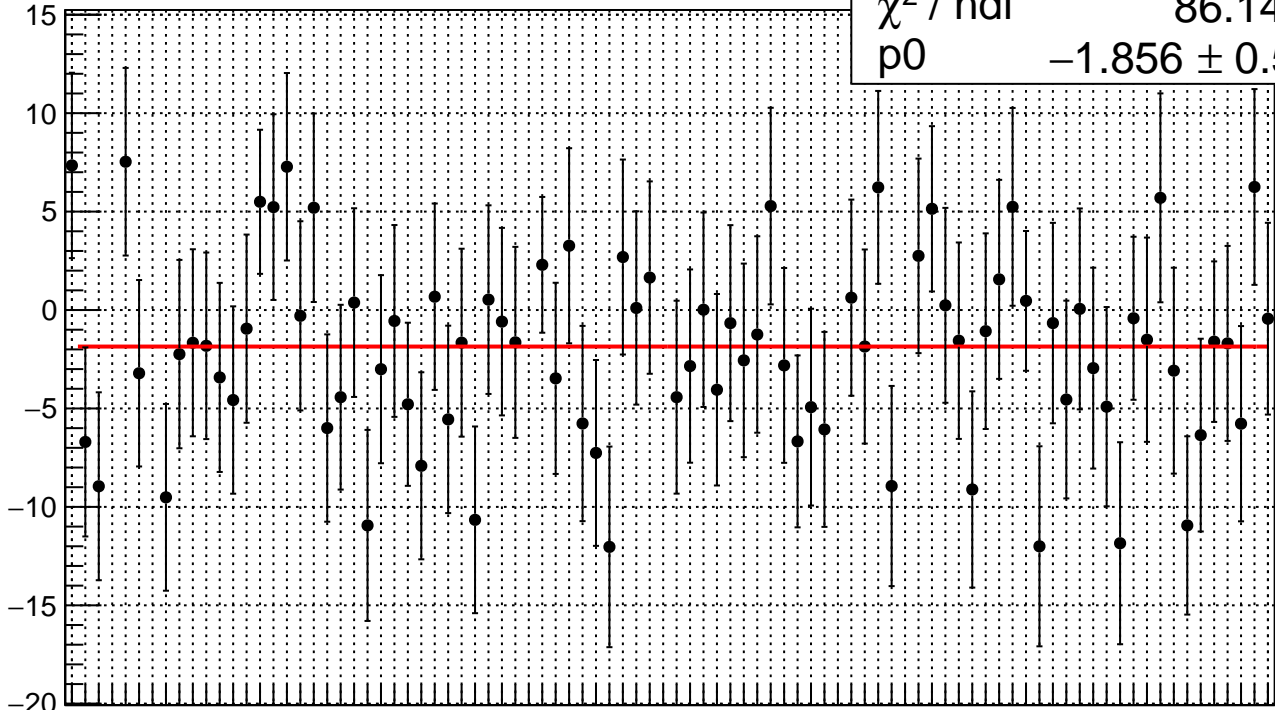


reg\_asym\_atl1\_mean/ppm

$\chi^2 / \text{ndf}$	86.14 / 83
p0	$-1.856 \pm 0.5198$

reg\_asym\_atl1\_mean/ppm

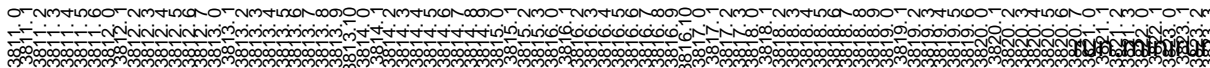
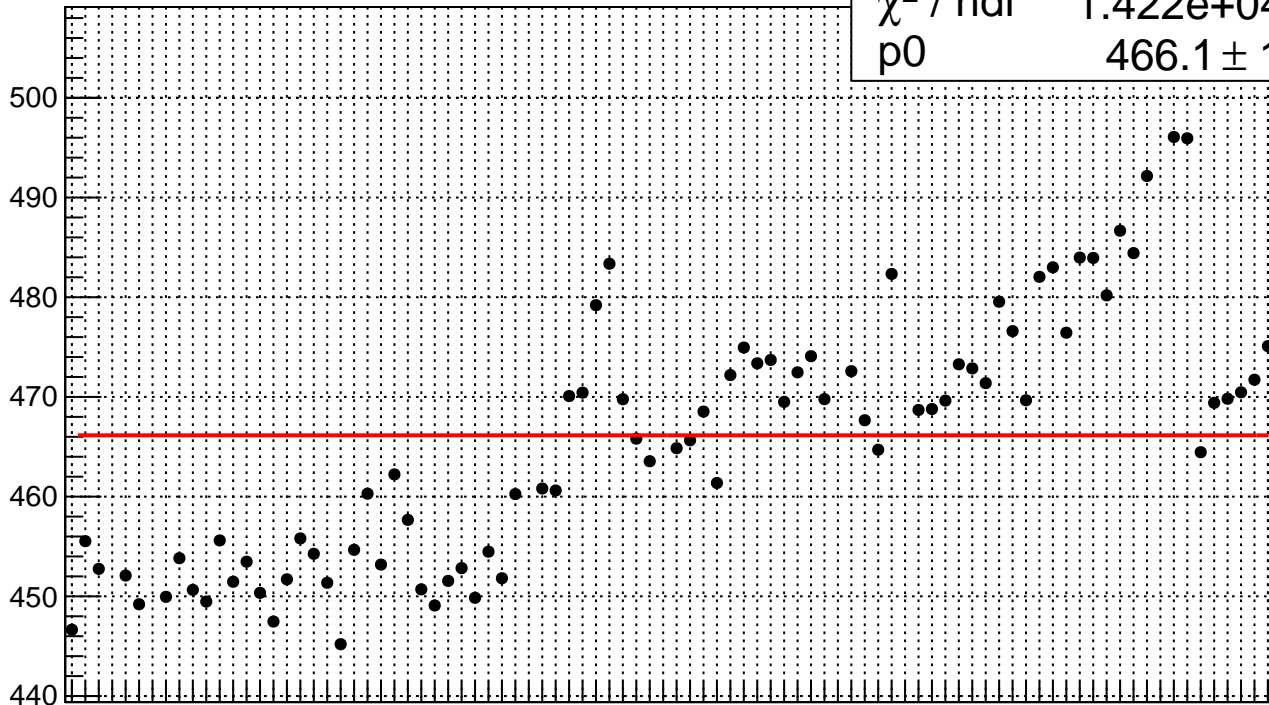


0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

reg\_asym\_atl1\_rms/ppm

$\chi^2 / \text{ndf}$  1.422e+04 / 83  
p0 466.1  $\pm$  1.428

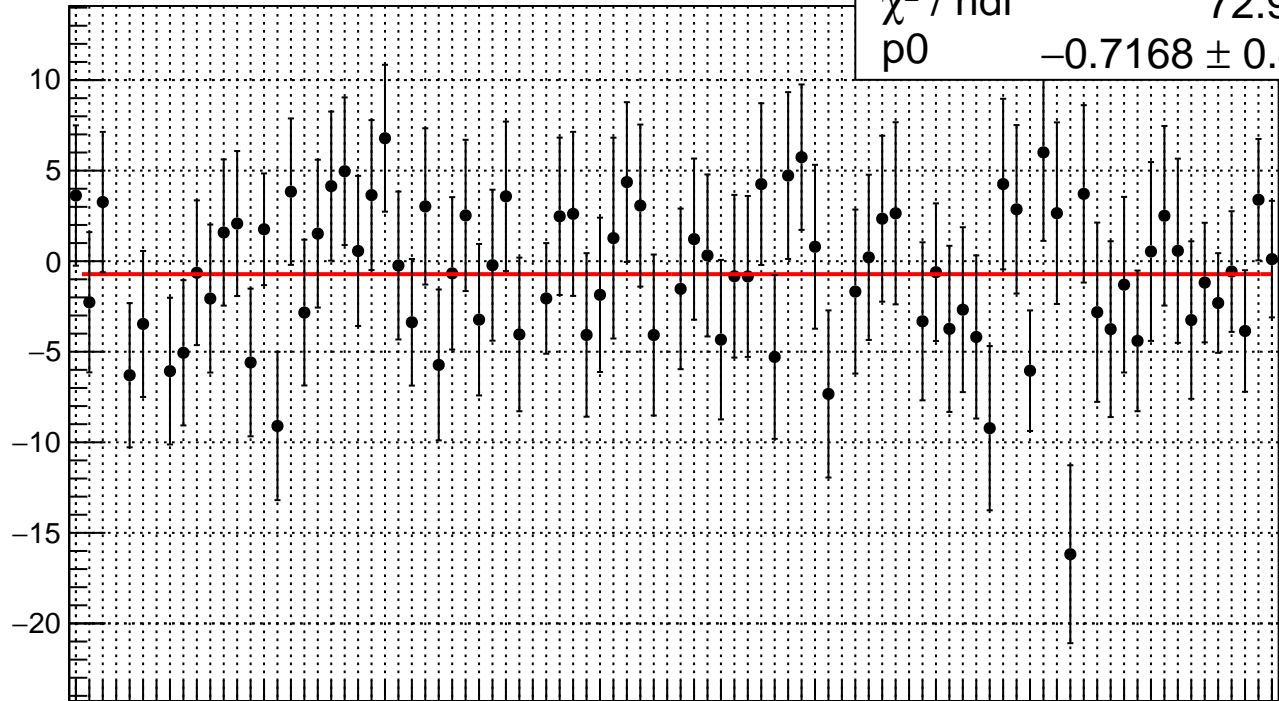
reg\_asym\_atl1\_rms/ppm



reg\_asym\_atl2\_mean/ppm

$\chi^2 / \text{ndf}$	72.9 / 83
p0	$-0.7168 \pm 0.4518$

reg\_asym\_atl2\_mean/ppm

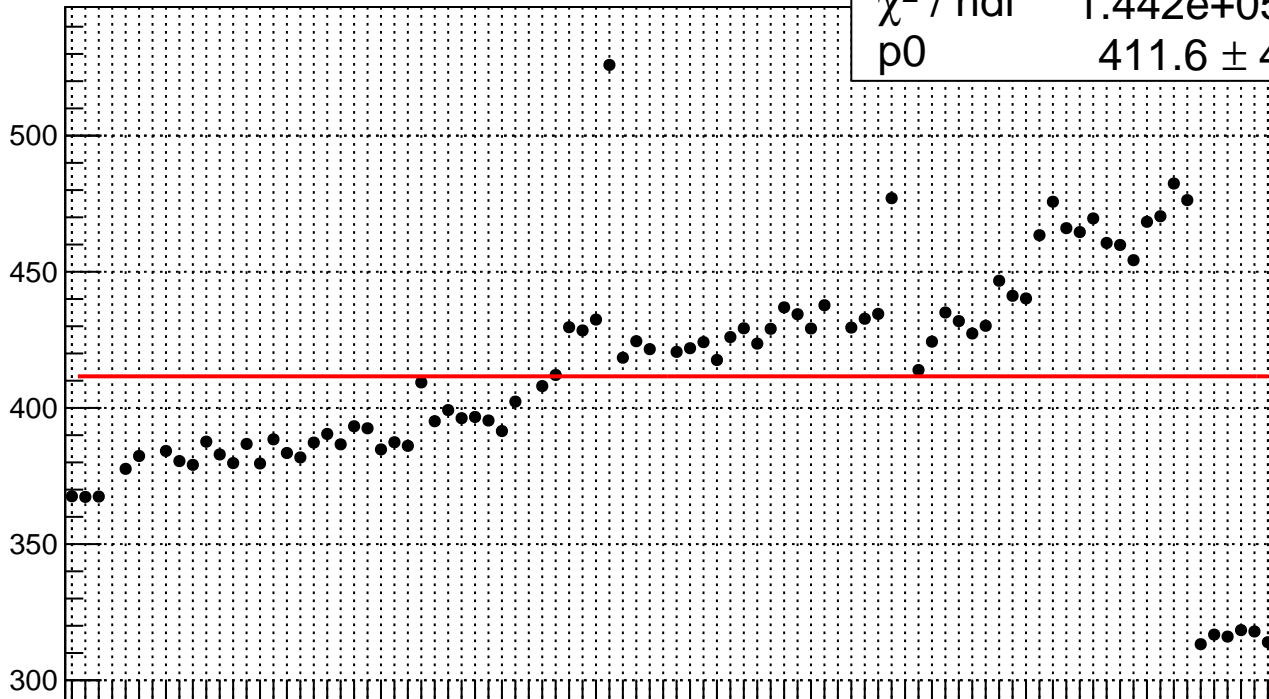


0 10 20 30 40 50 60 70 80 90 100

reg\_asym\_atl2\_rms/ppm

$\chi^2 / \text{ndf}$  1.442e+05 / 83  
p0 411.6  $\pm$  4.548

reg\_asym\_atl2\_rms/ppm



0 100 200 300 400 500 600 700 800 900 1000

reg\_asym\_atr1\_mean/ppm

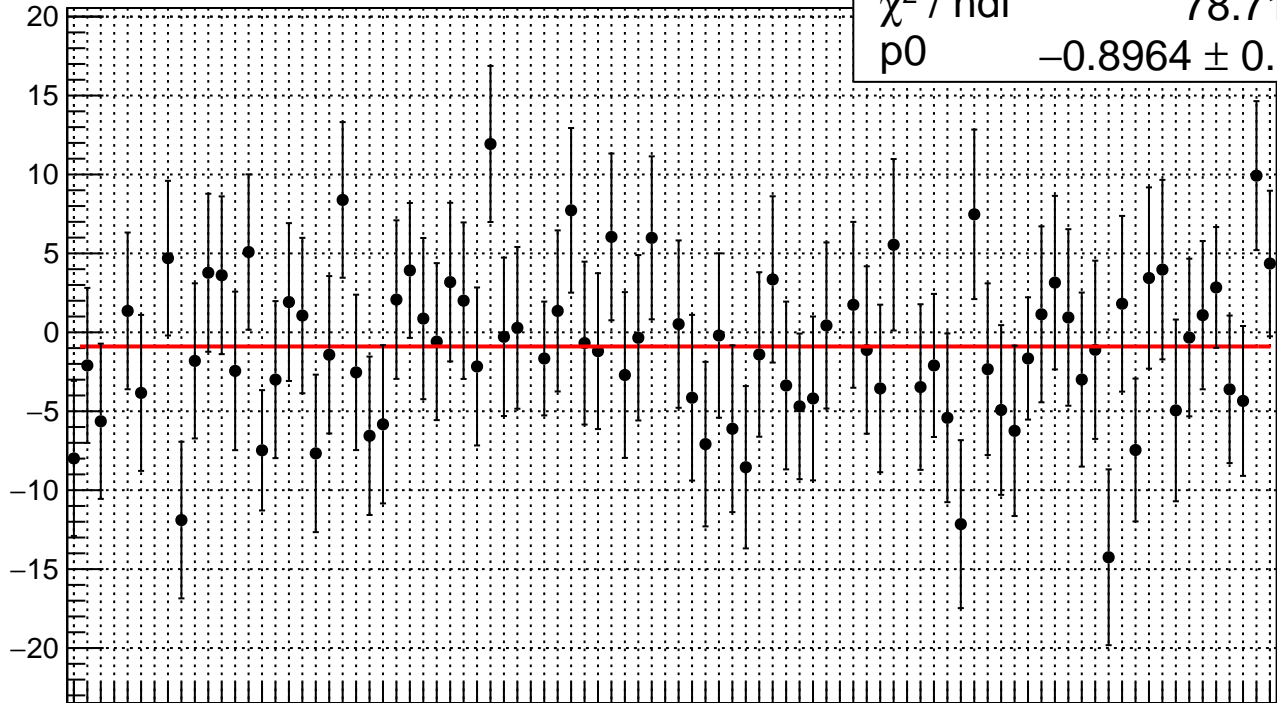
$\chi^2 / \text{ndf}$

78.71 / 83

p0

$-0.8964 \pm 0.5453$

reg\_asym\_atr1\_mean/ppm

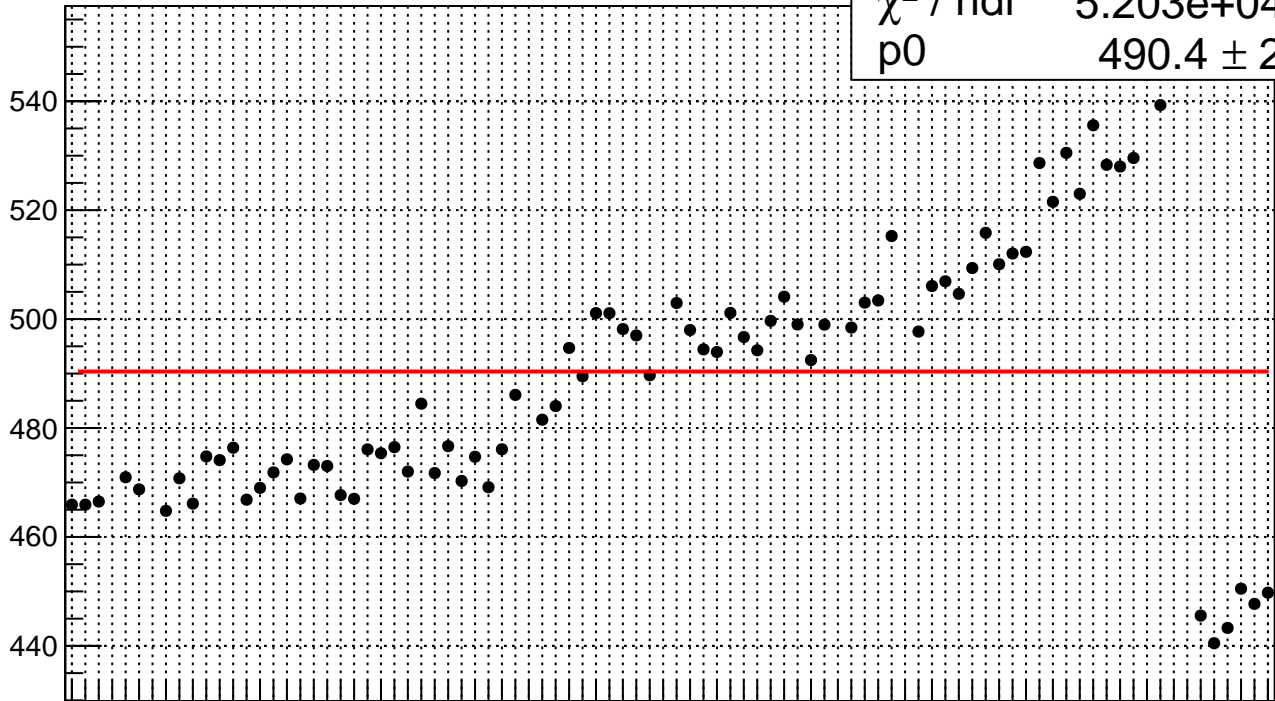


0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83

reg\_asym\_atr1\_rms/ppm

$\chi^2 / \text{ndf}$  5.203e+04 / 83  
p0 490.4  $\pm$  2.732

reg\_asym\_atr1\_rms/ppm

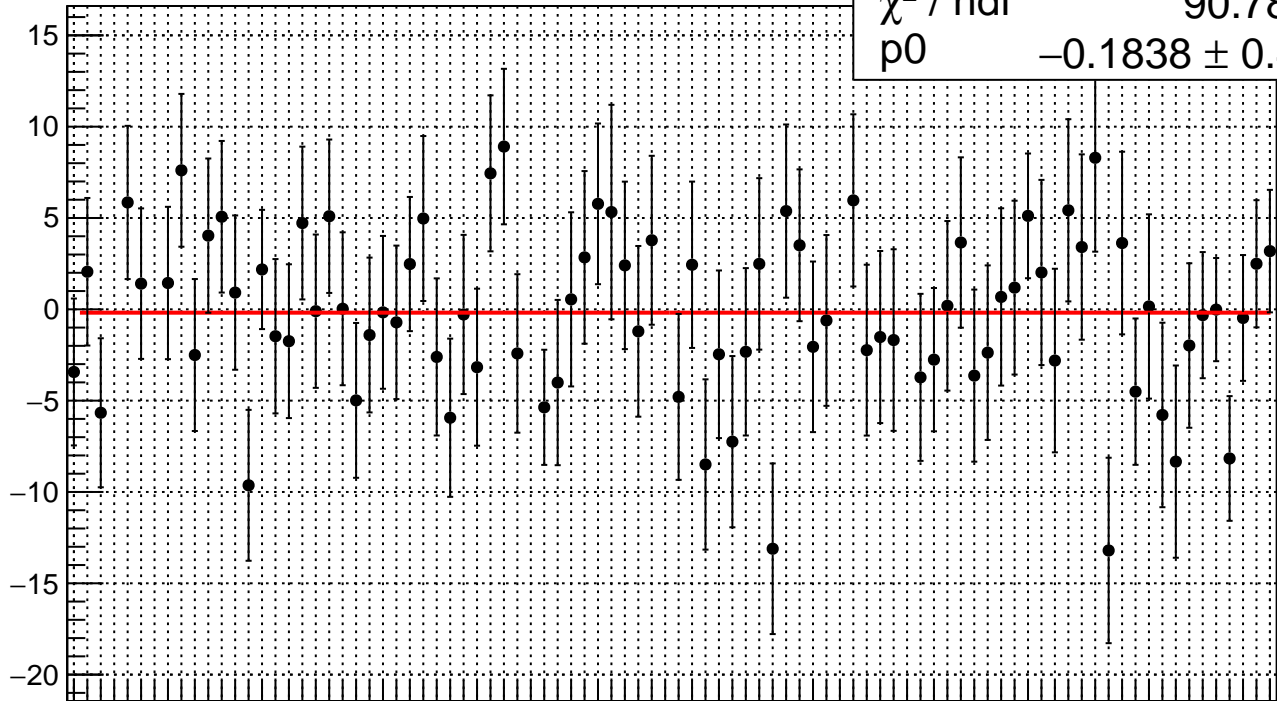


0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99

reg\_asym\_atr2\_mean/ppm

$\chi^2 / \text{ndf}$  90.78 / 83  
p0  $-0.1838 \pm 0.4672$

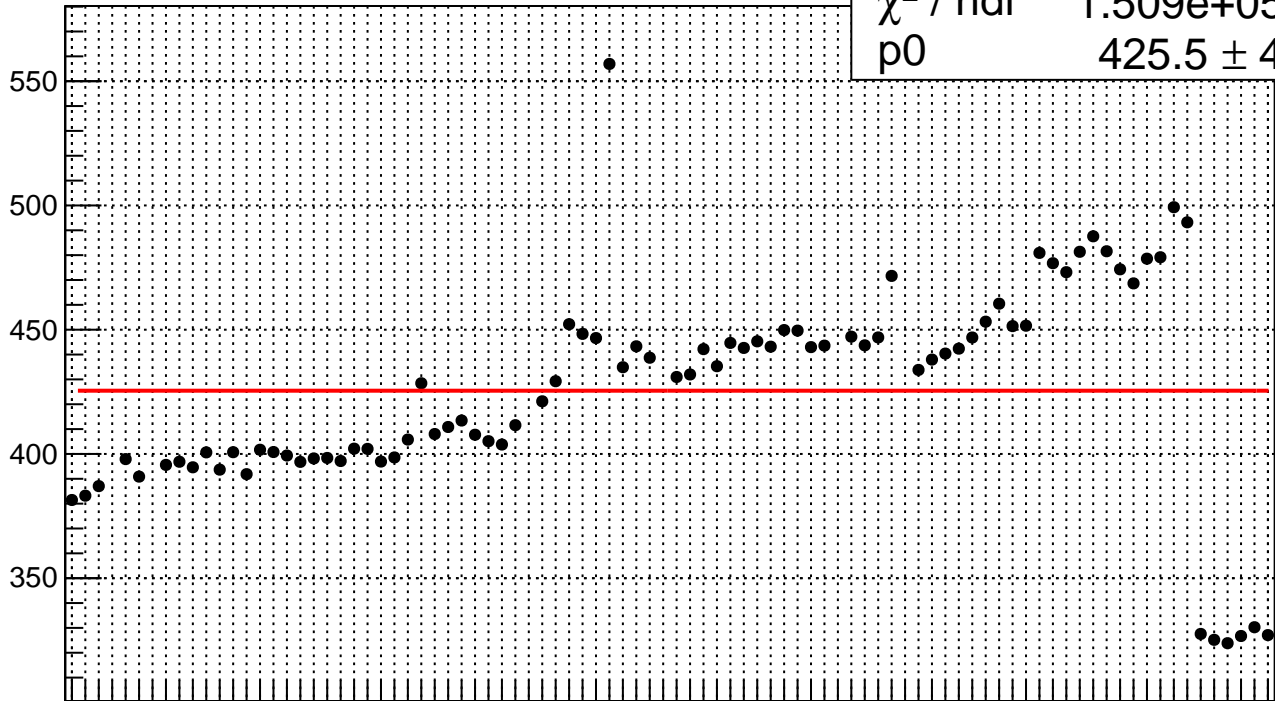
reg\_asym\_atr2\_mean/ppm



reg\_asym\_atr2\_rms/ppm

$\chi^2 / \text{ndf}$  1.509e+05 / 83  
p0 425.5  $\pm$  4.653

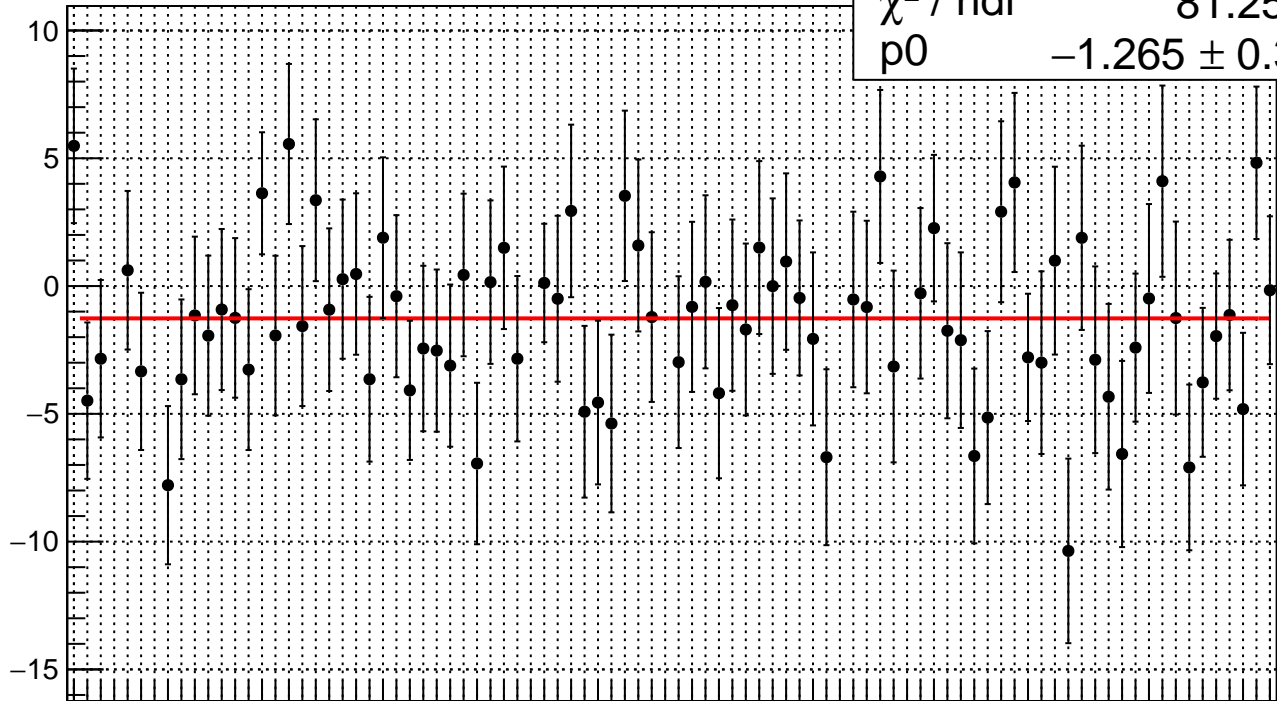
reg\_asym\_atr2\_rms/ppm





# reg\_asym\_atl\_avg\_mean/ppm

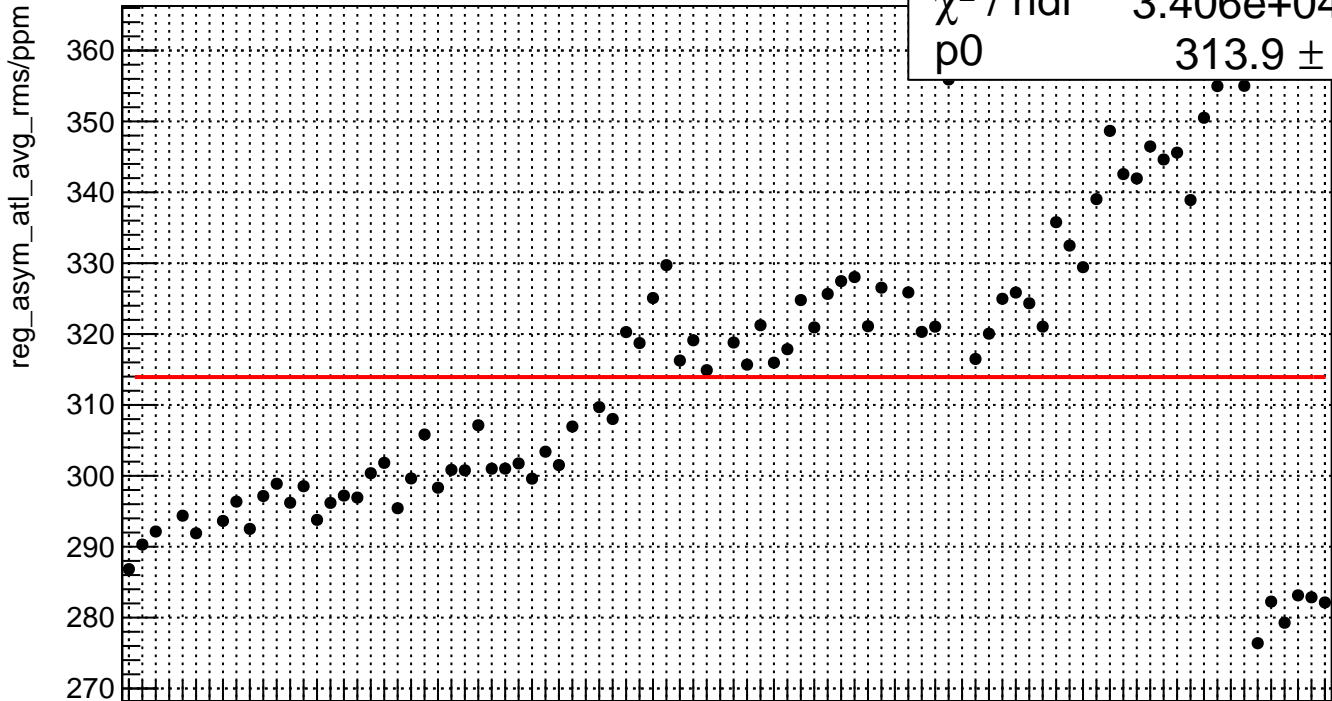
reg\_asym\_atl\_avg\_mean/ppm



0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83

reg\_asym\_atl\_avg\_rms/ppm

$\chi^2 / \text{ndf}$  3.406e+04 / 83  
p0 313.9  $\pm$  2.21



0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 270 280 290 300 310 320 330 340 350 360 370 380 390 400 410 420 430 440 450 460 470 480 490 500 510 520 530 540 550 560 570 580 590 600 610 620 630 640 650 660 670 680 690 700 710 720 730 740 750 760 770 780 790 800 810 820 830 840 850 860 870 880 890 900 910 920 930 940 950 960 970 980 990 1000

reg\_asym\_atl\_dd\_mean/ppm

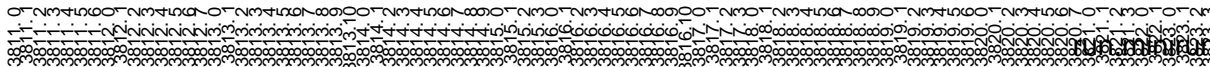
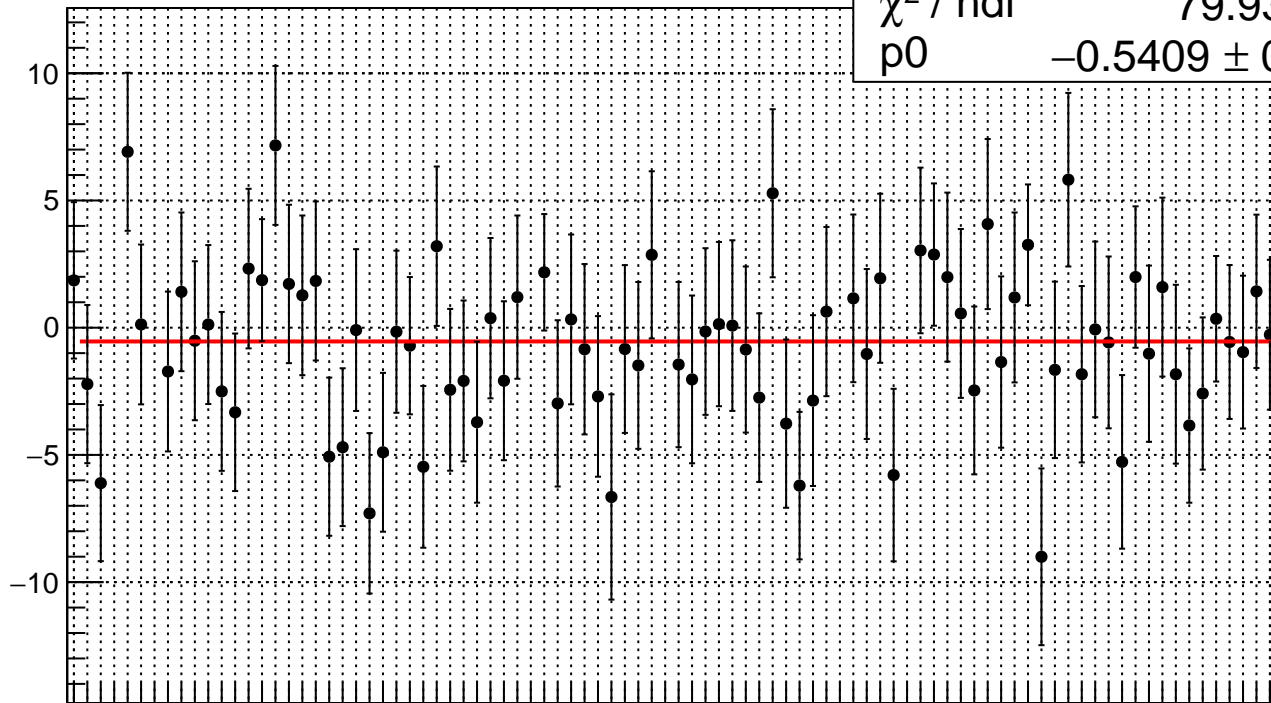
$\chi^2 / \text{ndf}$

79.93 / 83

p0

$-0.5409 \pm 0.343$

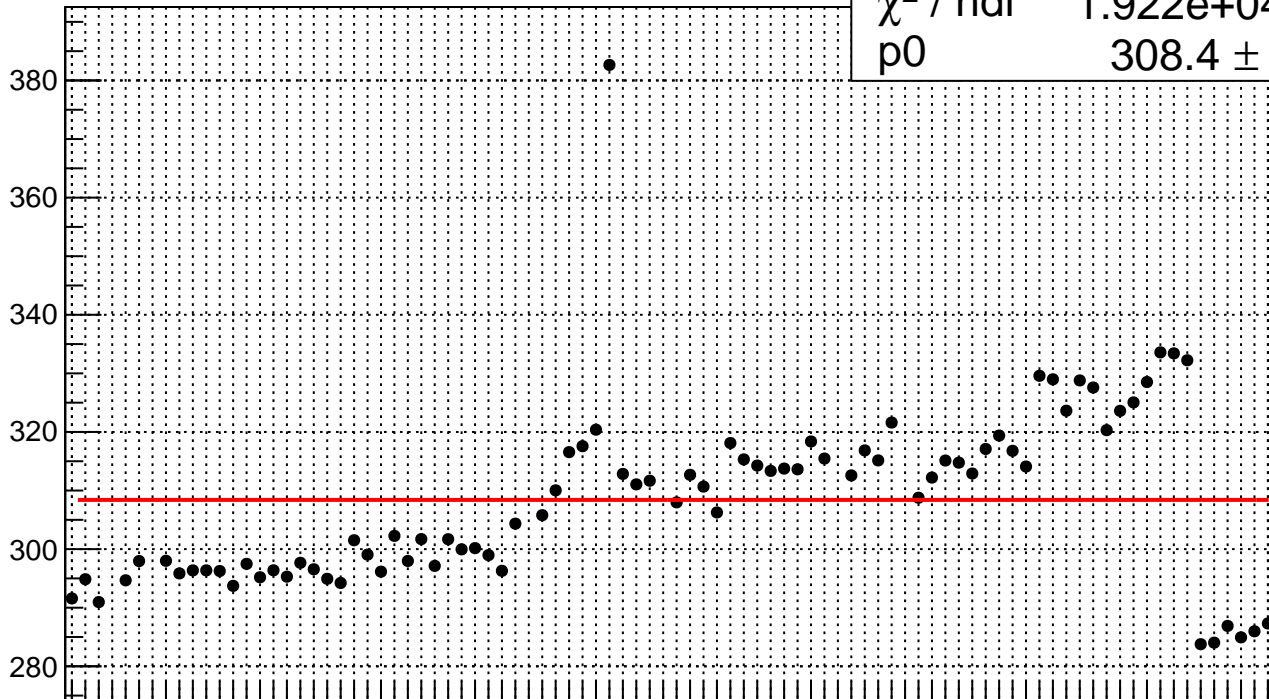
reg\_asym\_atl\_dd\_mean/ppm



reg\_asym\_atl\_dd\_rms/ppm

$\chi^2 / \text{ndf}$	1.922e+04 / 83
p0	308.4 $\pm$ 1.66

reg\_asym\_atl\_dd\_rms/ppm

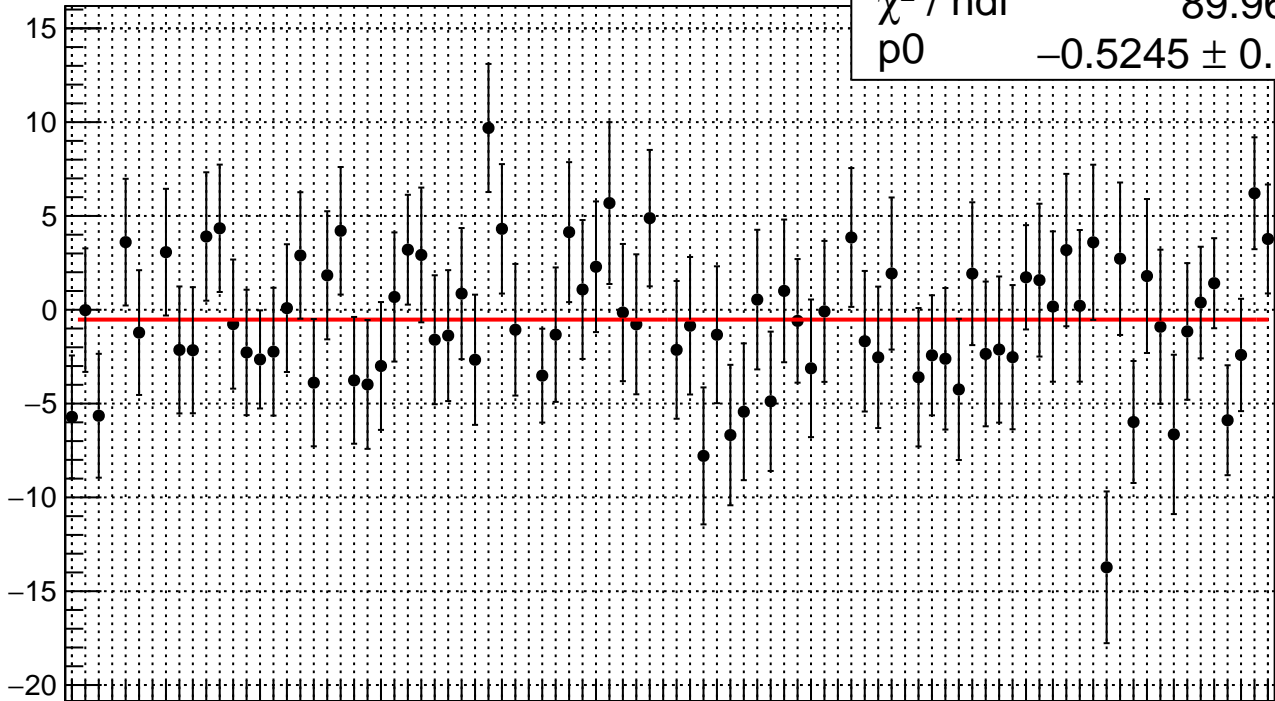


0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99

reg\_asym\_atr\_avg\_mean/ppm

$\chi^2 / \text{ndf}$  89.96 / 83  
p0  $-0.5245 \pm 0.3782$

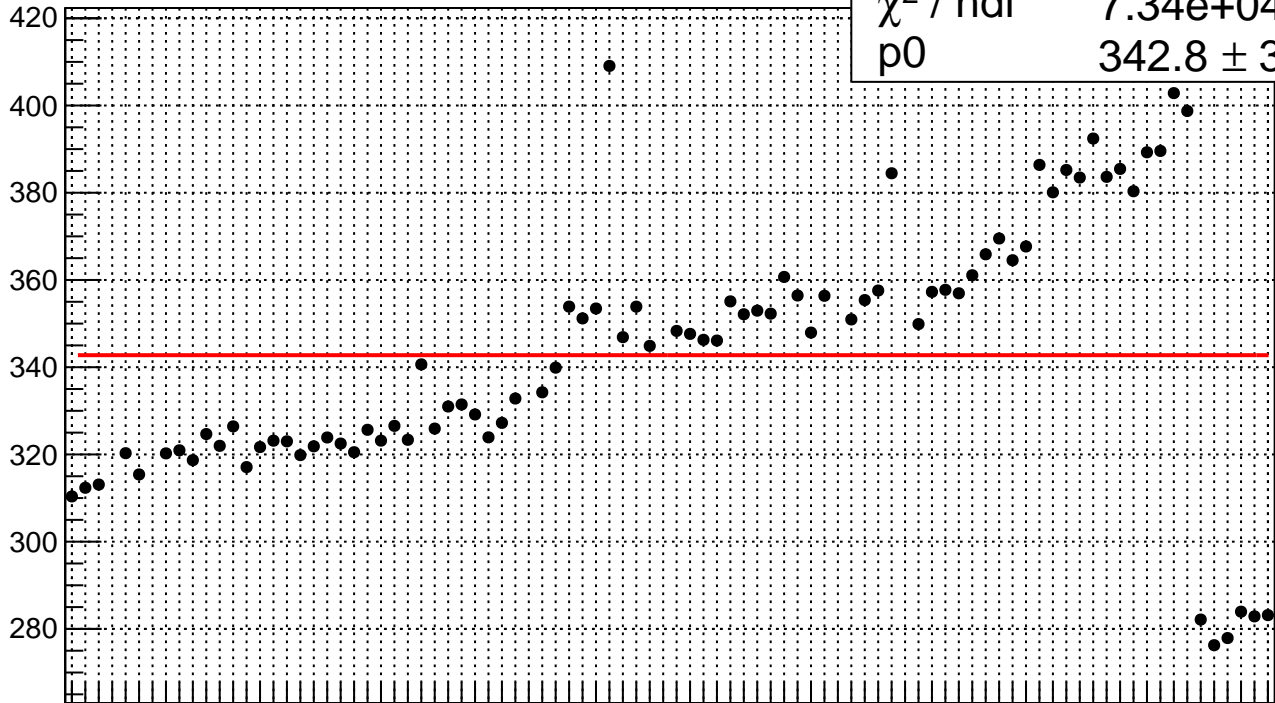
reg\_asym\_atr\_avg\_mean/ppm



0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 270 280 290 300 310 320 330 340 350 360 370 380 390 400 410 420 430 440 450 460 470 480 490 500 510 520 530 540 550 560 570 580 590 600 610 620 630 640 650 660 670 680 690 700 710 720 730 740 750 760 770 780 790 800 810 820 830 840 850 860 870 880 890 900 910 920 930 940 950 960 970 980 990 1000

# reg\_asym\_atr\_avg\_rms/ppm

reg\_asym\_atr\_avg\_rms/ppm



$\chi^2 / \text{ndf}$  7.34e+04 / 83  
p0 342.8  $\pm$  3.245

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99

reg\_asym\_atr\_dd\_mean/ppm

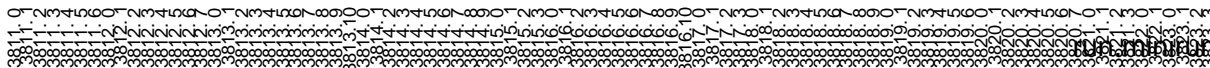
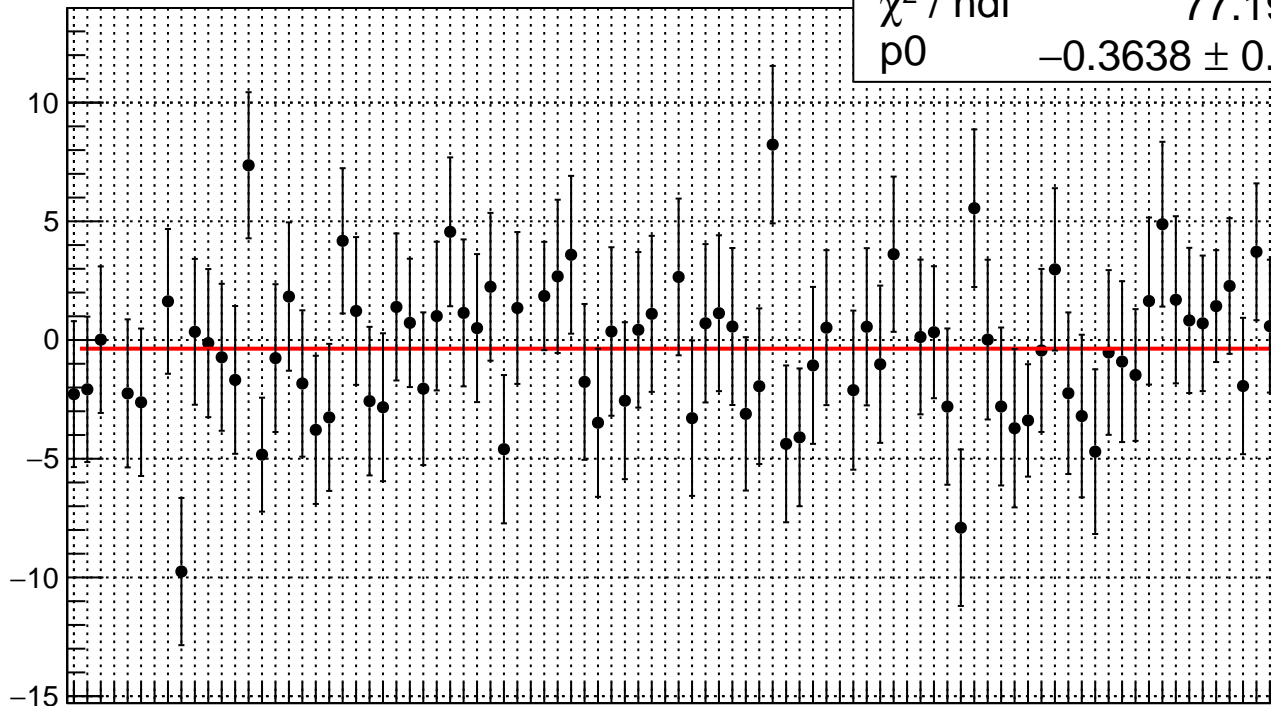
$\chi^2 / \text{ndf}$

77.19 / 83

p0

$-0.3638 \pm 0.3397$

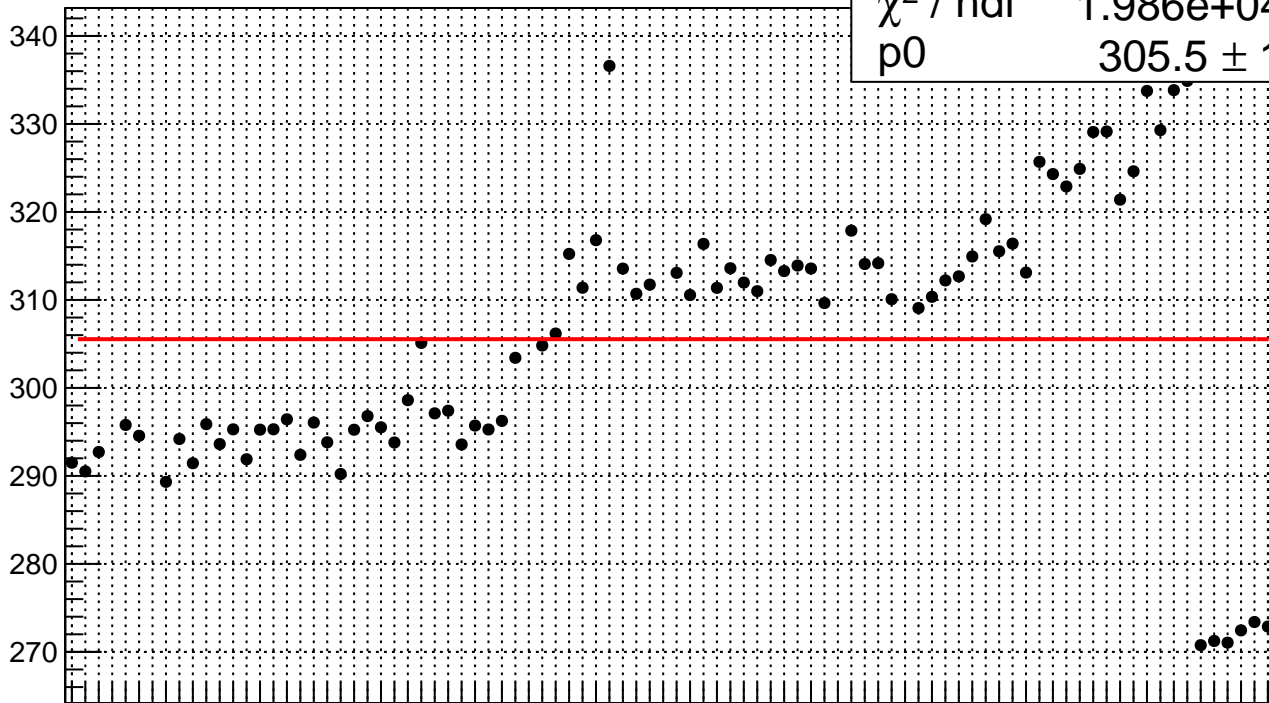
reg\_asym\_atr\_dd\_mean/ppm



# reg\_asym\_atr\_dd\_rms/ppm

reg\_asym\_atr\_dd\_rms/ppm

$\chi^2 / \text{ndf}$	1.986e+04 / 83
p0	305.5 $\pm$ 1.688



0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99

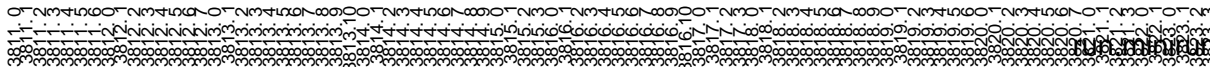
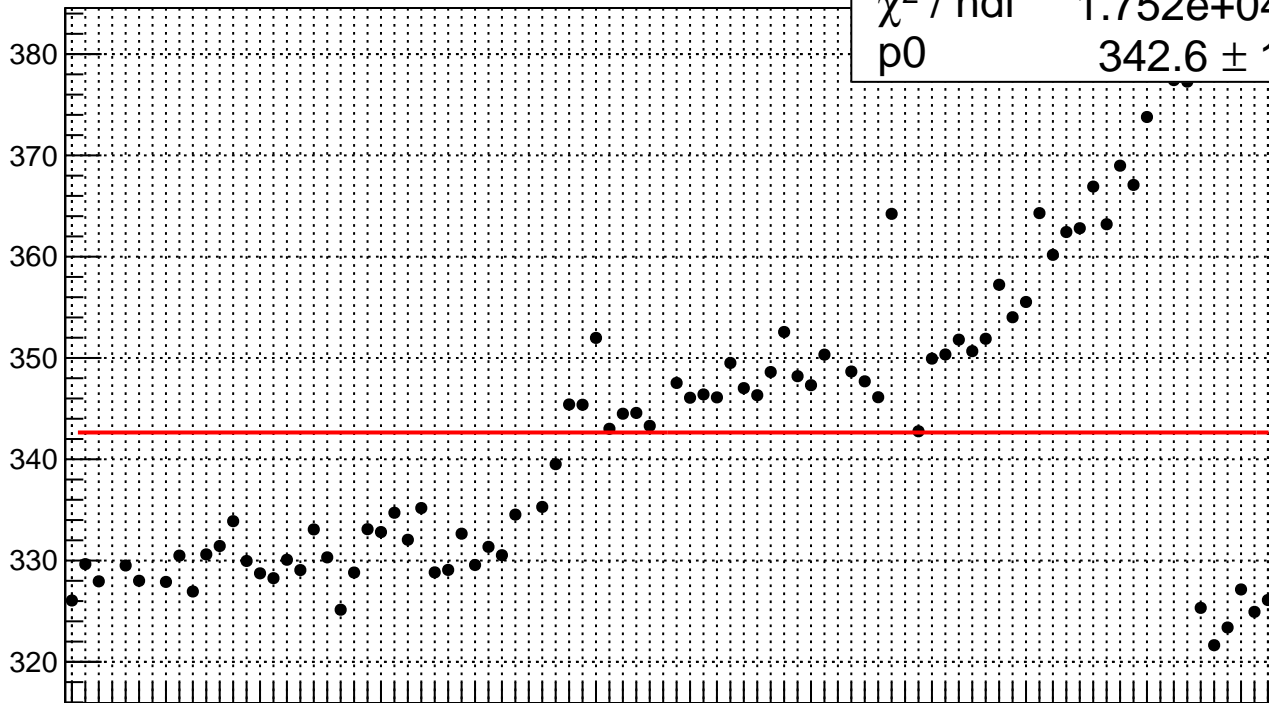




reg\_asym\_at1\_avg\_rms/ppm

$\chi^2 / \text{ndf}$  1.752e+04 / 83  
p0 342.6  $\pm$  1.585

reg\_asym\_at1\_avg\_rms/ppm



reg\_asym\_at1\_dd\_mean/ppm

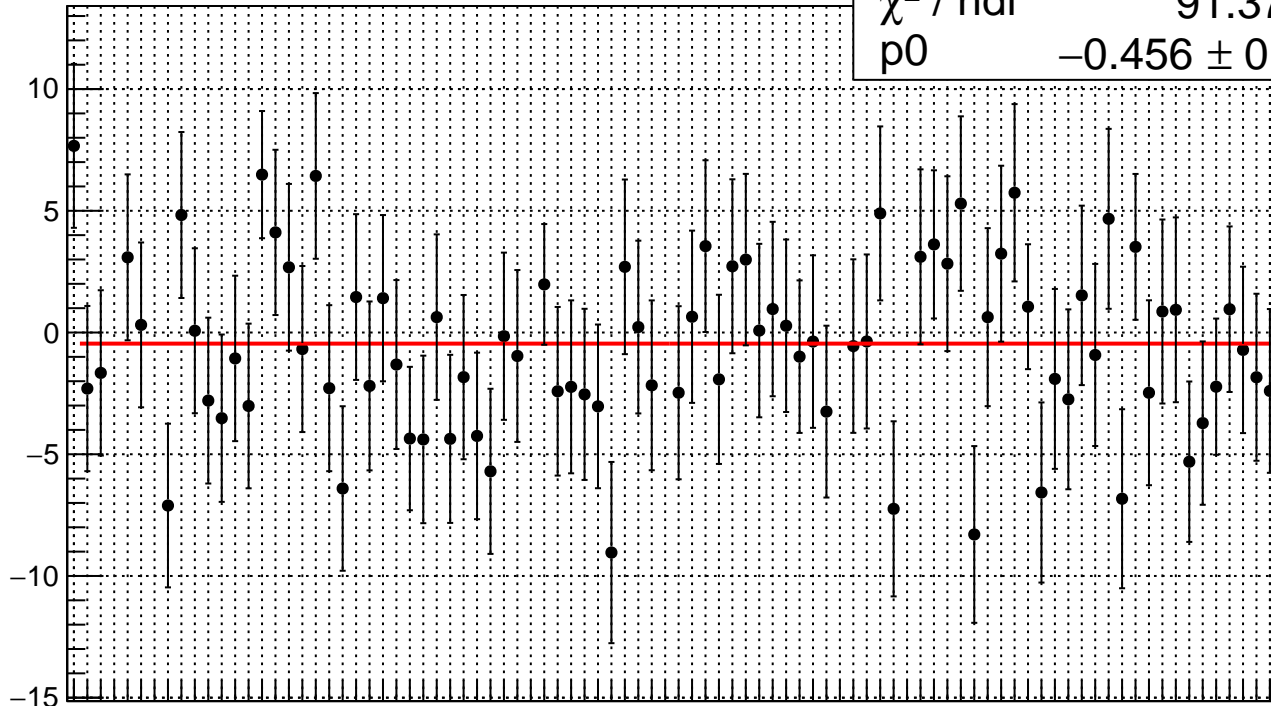
$\chi^2 / \text{ndf}$

91.37 / 83

p0

$-0.456 \pm 0.3721$

reg\_asym\_at1\_dd\_mean/ppm

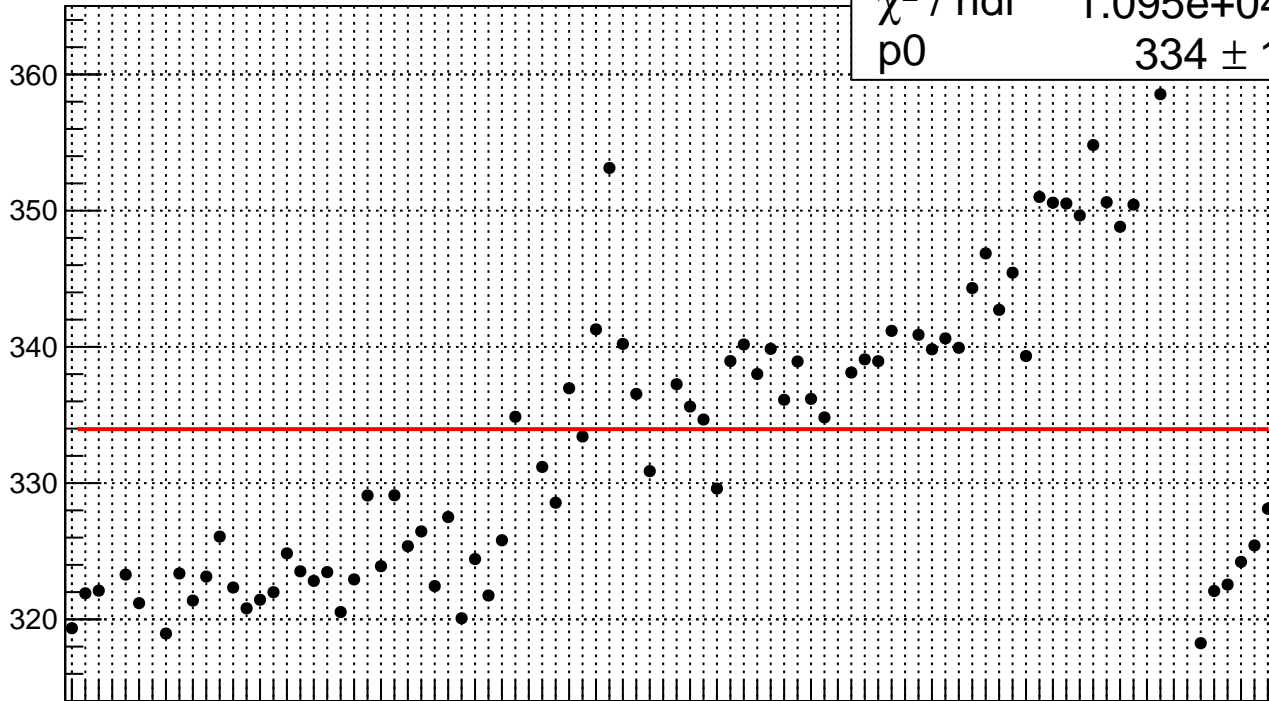


0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83

reg\_asym\_at1\_dd\_rms/ppm

$\chi^2 / \text{ndf}$  1.095e+04 / 83  
p0 334  $\pm$  1.253

reg\_asym\_at1\_dd\_rms/ppm



0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99

reg\_asym\_at2\_avg\_mean/ppm

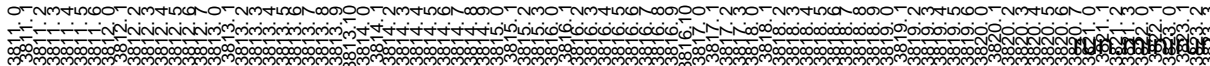
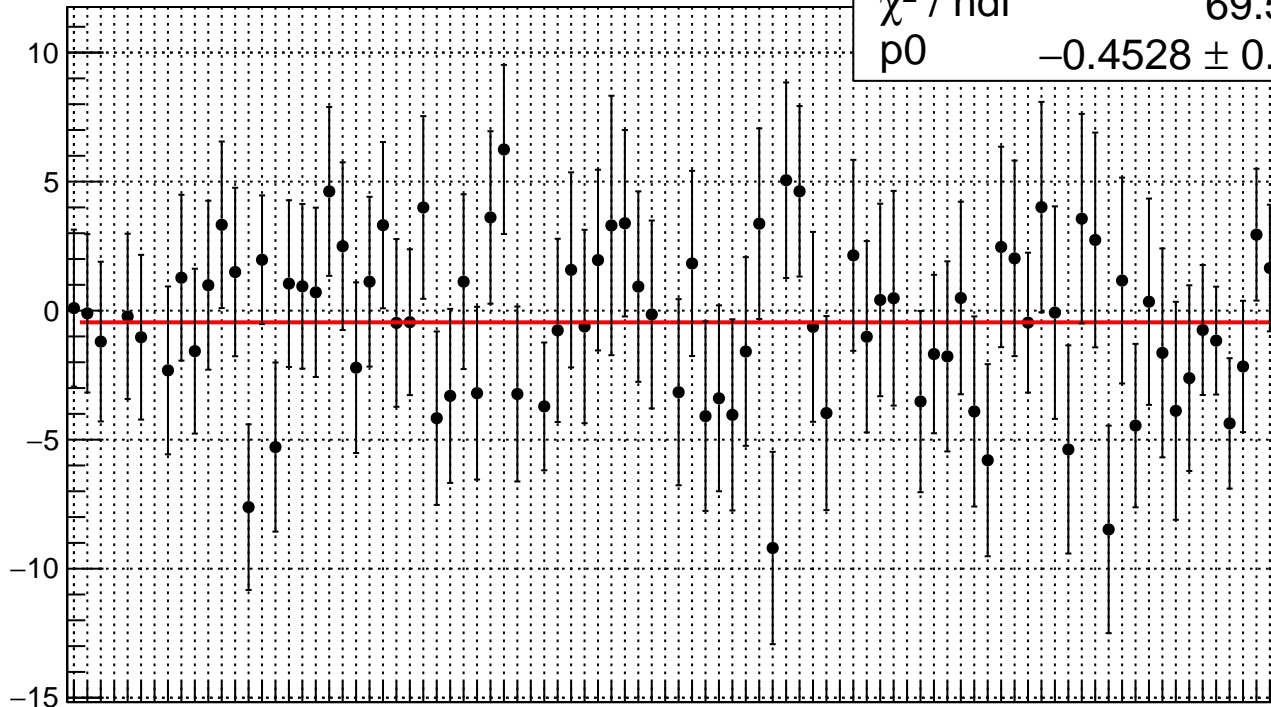
$\chi^2 / \text{ndf}$

69.5 / 83

p0

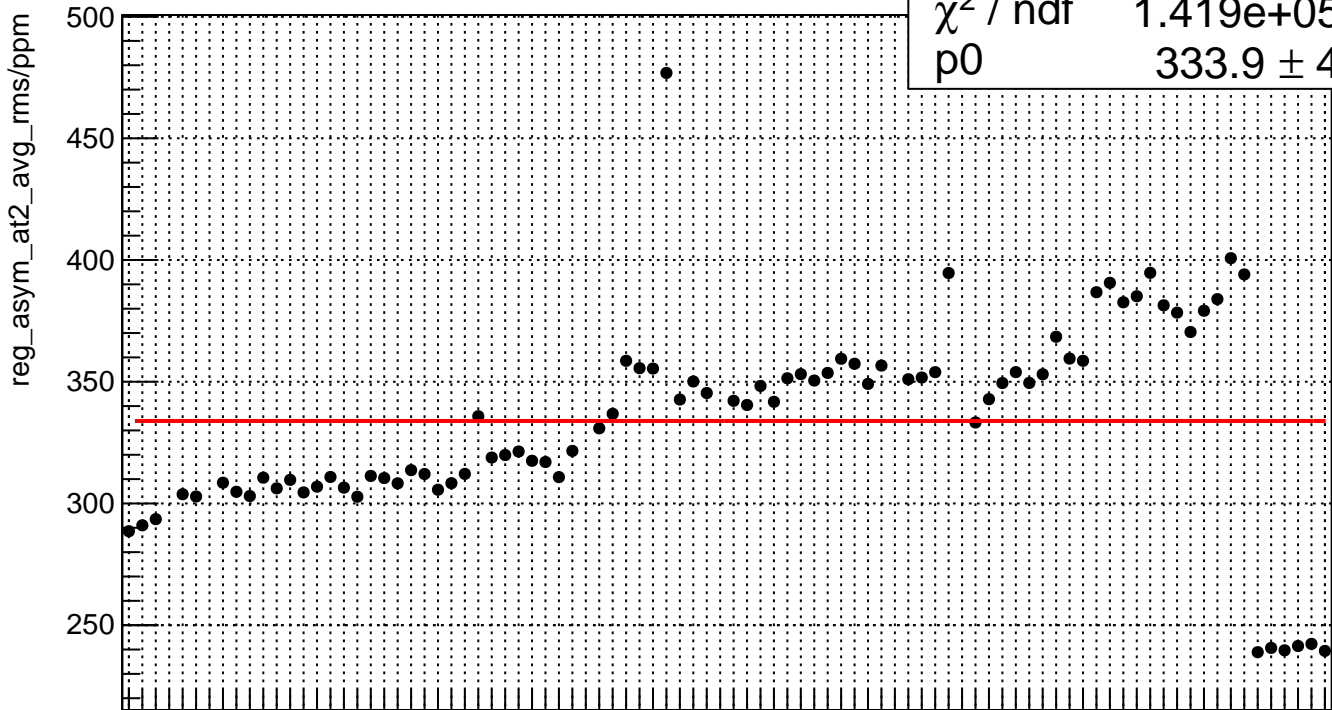
$-0.4528 \pm 0.3634$

reg\_asym\_at2\_avg\_mean/ppm



reg\_asym\_at2\_avg\_rms/ppm

$\chi^2 / \text{ndf}$  1.419e+05 / 83  
p0 333.9  $\pm$  4.512



reg\_asym\_at2\_dd\_mean/ppm

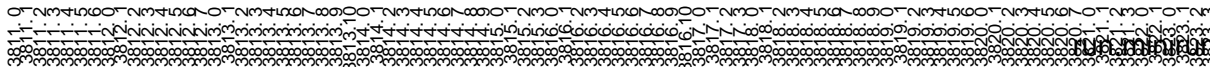
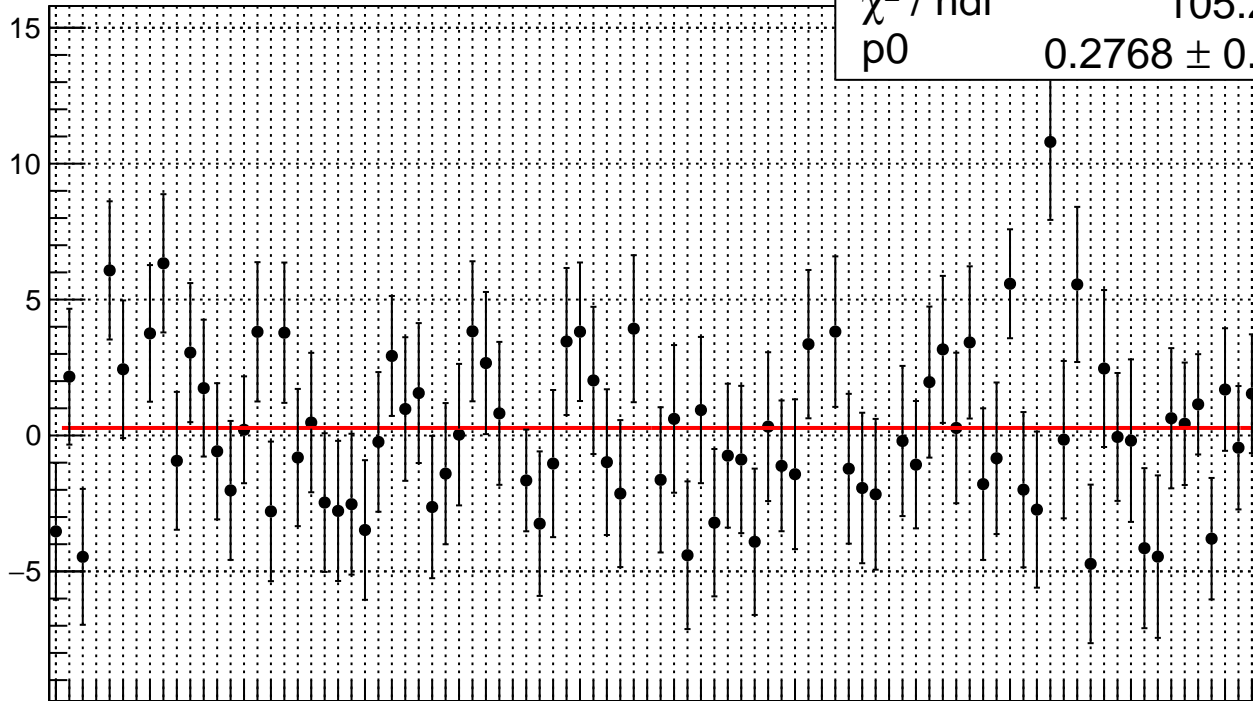
$\chi^2 / \text{ndf}$

105.2 / 83

p0

$0.2768 \pm 0.2796$

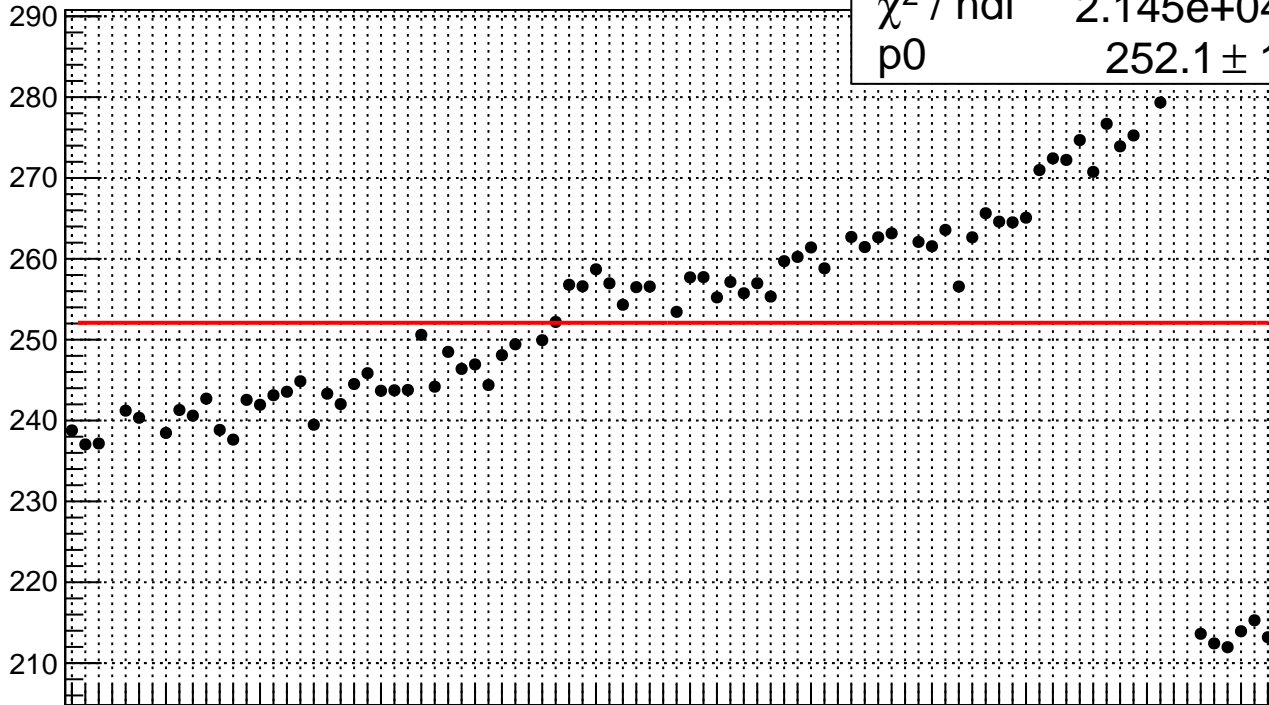
reg\_asym\_at2\_dd\_mean/ppm



reg\_asym\_at2\_dd\_rms/ppm

$\chi^2 / \text{ndf}$  2.145e+04 / 83  
p0 252.1  $\pm$  1.754

reg\_asym\_at2\_dd\_rms/ppm



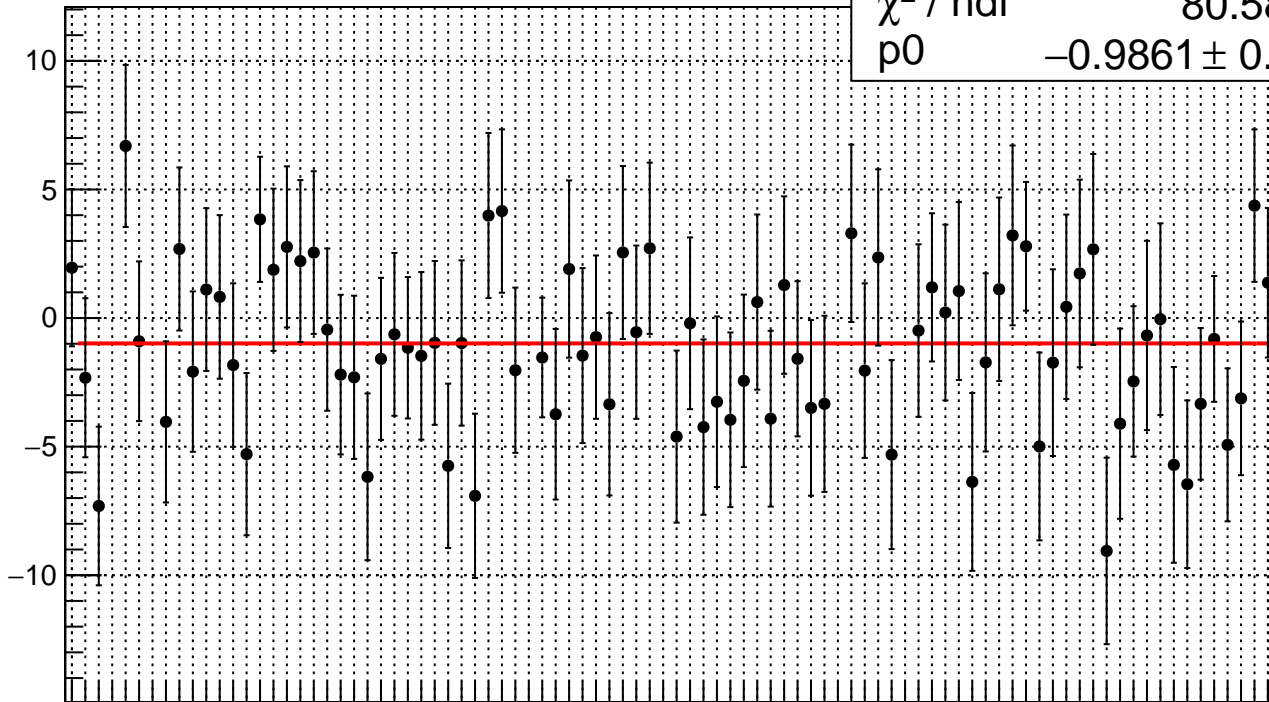
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83



# reg\_asym\_atl1r2\_avg\_mean/ppm

reg\_asym\_atl1r2\_avg\_mean/ppm

$\chi^2 / \text{ndf}$  80.58 / 83  
p0  $-0.9861 \pm 0.3503$

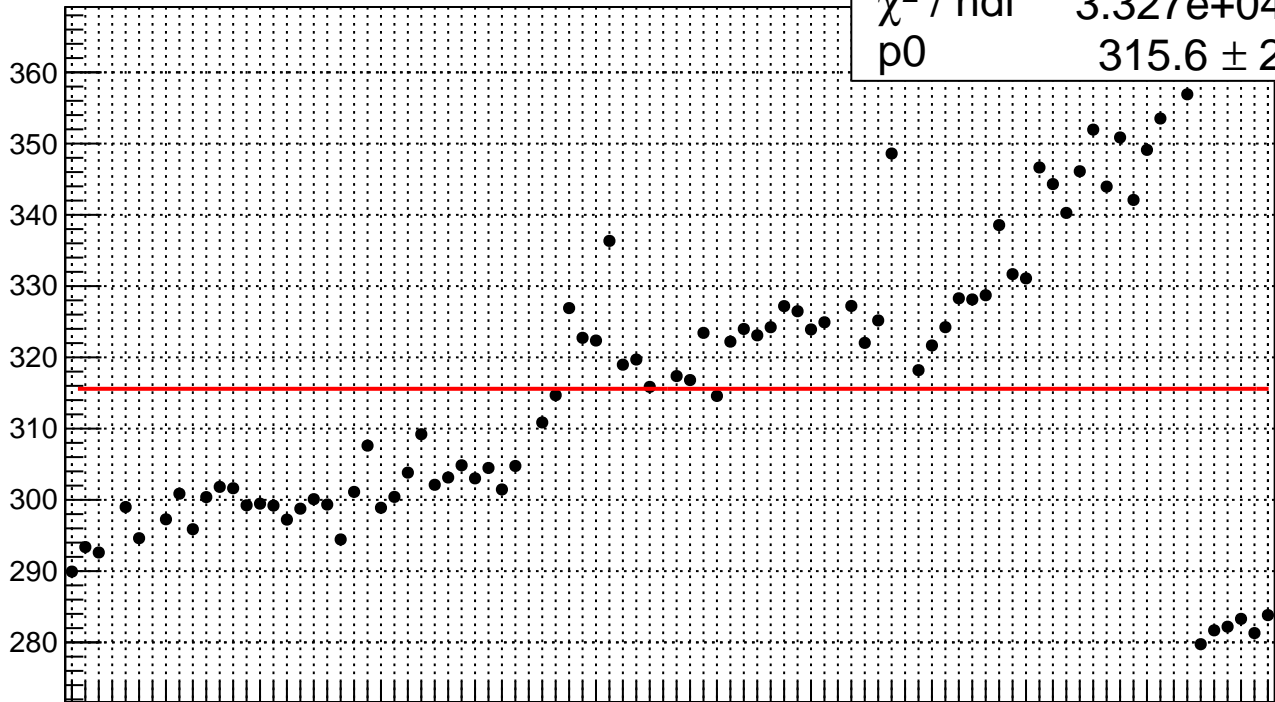


0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83

# reg\_asym\_atl1r2\_avg\_rms/ppm

reg\_asym\_atl1r2\_avg\_rms/ppm

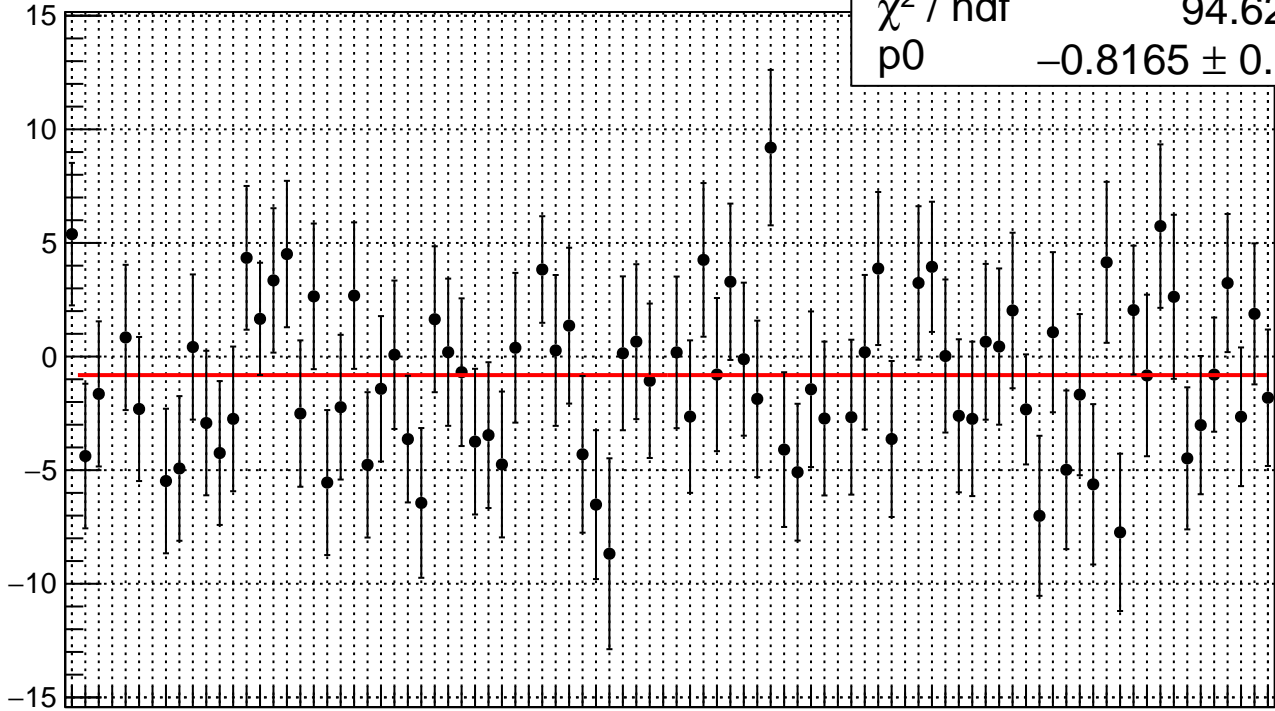
$\chi^2 / \text{ndf}$	3.327e+04 / 83
p0	315.6 $\pm$ 2.184



# reg\_asym\_atl1r2\_dd\_mean/ppm

reg\_asym\_atl1r2\_dd\_mean/ppm

$\chi^2 / \text{ndf}$  94.62 / 83  
p0  $-0.8165 \pm 0.3514$

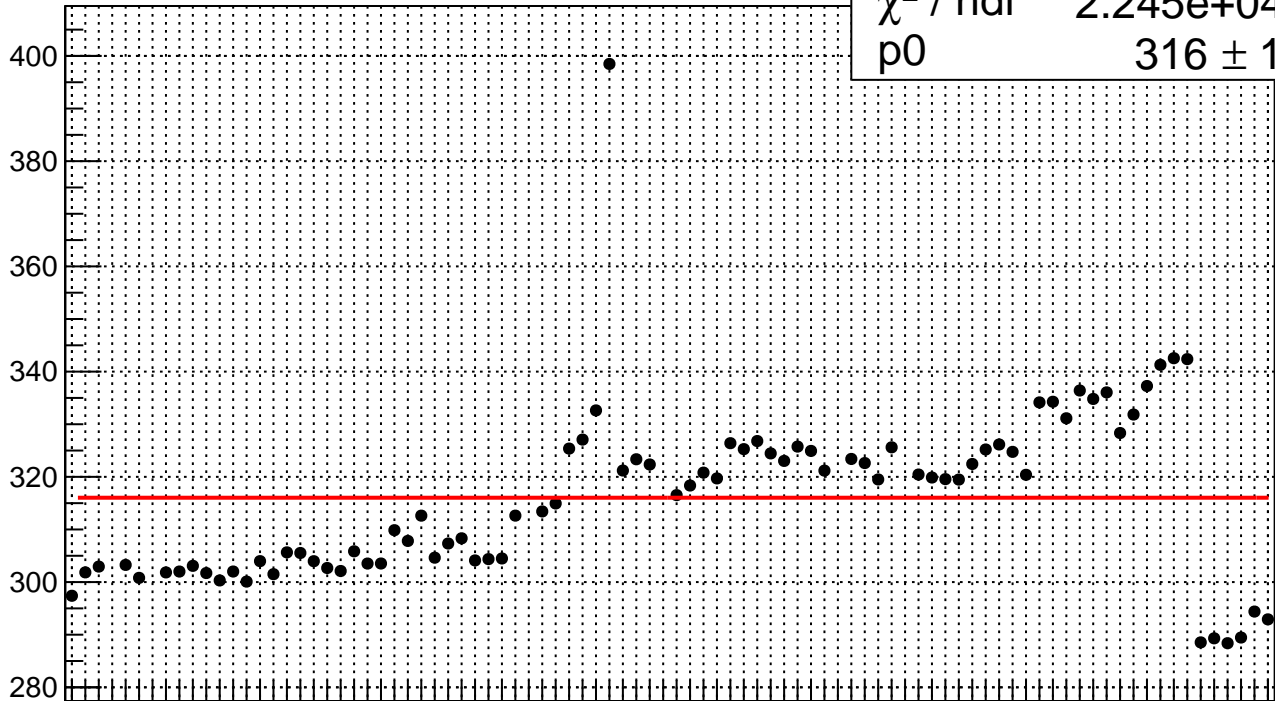


0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

reg\_asym\_atl1r2\_dd\_rms/ppm

$\chi^2 / \text{ndf}$  2.245e+04 / 83  
p0 316  $\pm$  1.794

reg\_asym\_atl1r2\_dd\_rms/ppm



0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99

reg\_asym\_atr1l2\_avg\_mean/ppm

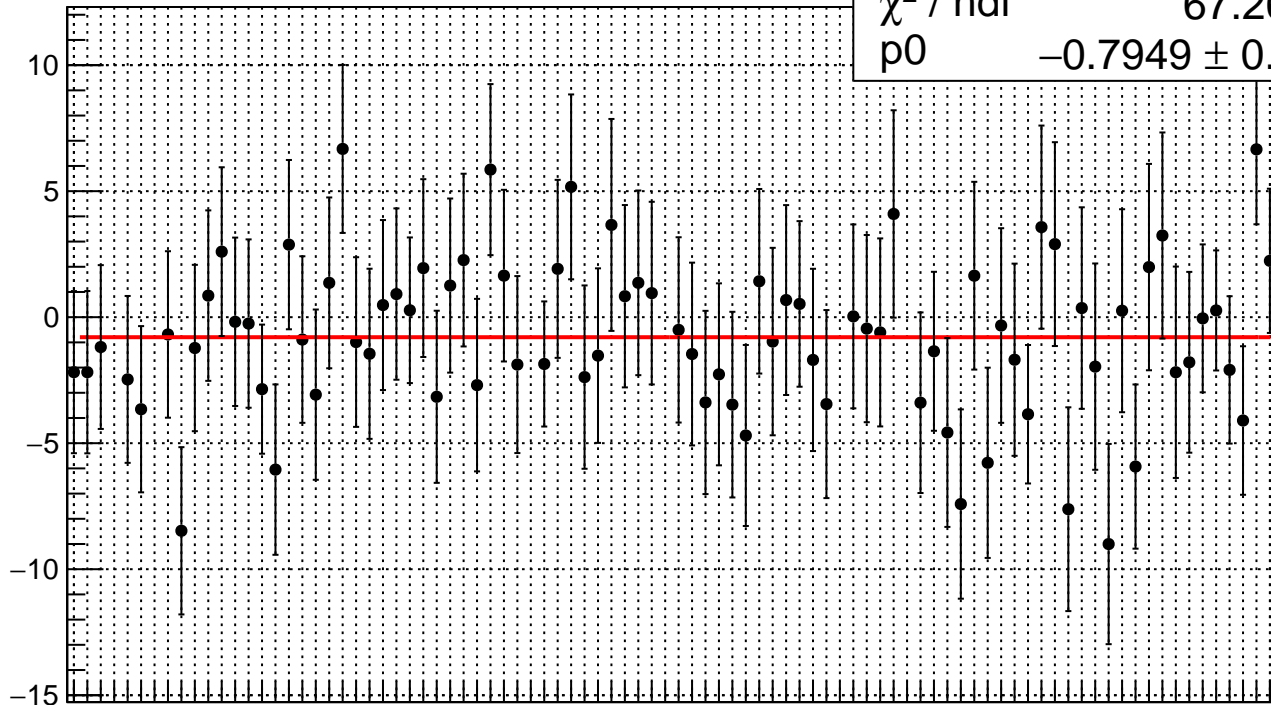
$\chi^2 / \text{ndf}$

67.26 / 83

p0

$-0.7949 \pm 0.3739$

reg\_asym\_atr1l2\_avg\_mean/ppm

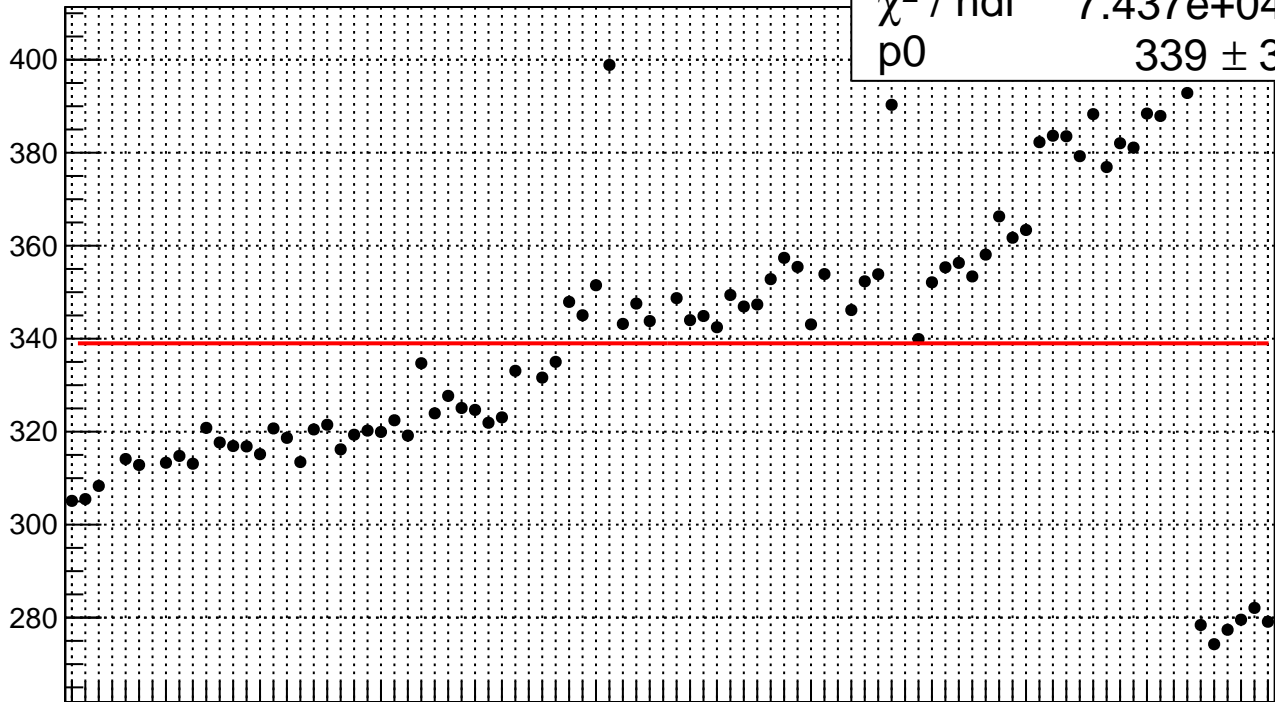


0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99

# reg\_asym\_atr1l2\_avg\_rms/ppm

reg\_asym\_atr1l2\_avg\_rms/ppm

$\chi^2 / \text{ndf}$  7.437e+04 / 83  
p0 339 ± 3.266

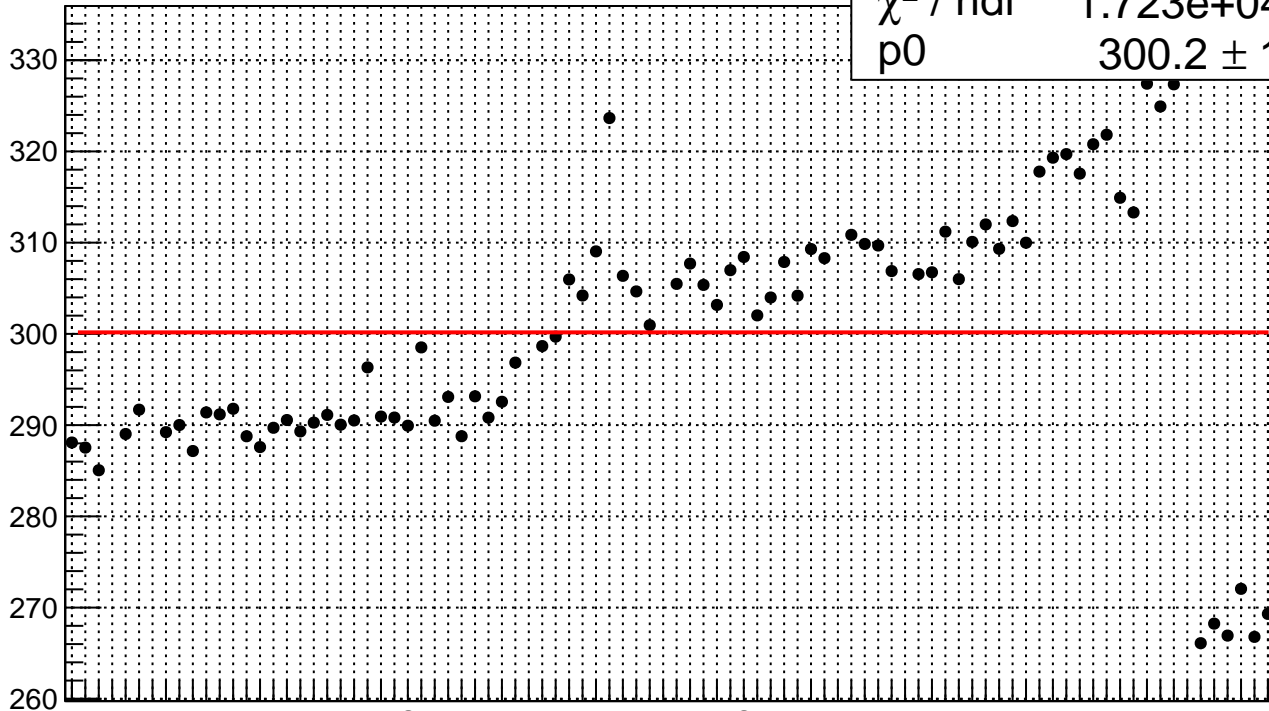




reg\_asym\_atr1l2\_dd\_rms/ppm

$\chi^2 / \text{ndf}$  1.723e+04 / 83  
p0 300.2  $\pm$  1.572

reg\_asym\_atr1l2\_dd\_rms/ppm



0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99

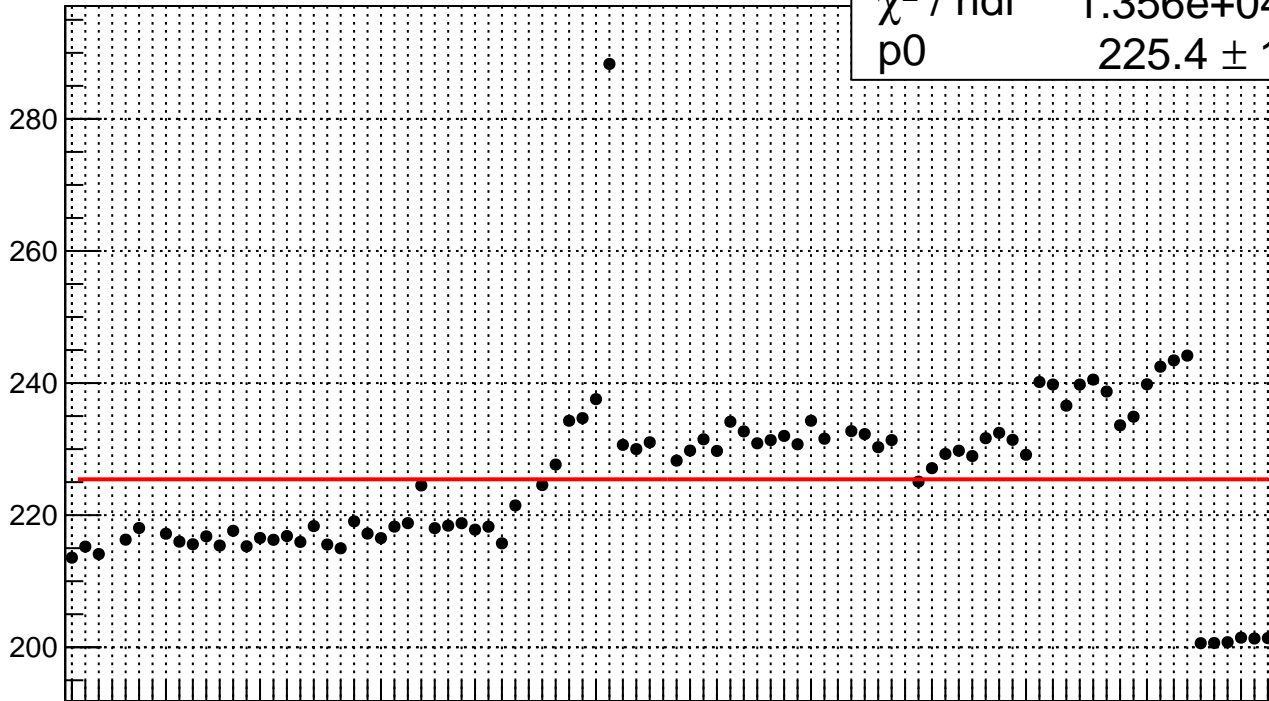




reg\_asym\_atl\_dd\_atr\_dd\_avg\_rms/ppm

$\chi^2 / \text{ndf}$  1.356e+04 / 83  
p0 225.4  $\pm$  1.395

reg\_asym\_atl\_dd\_atr\_dd\_avg\_rms/ppm



0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99

reg\_asym\_atl\_dd\_atr\_dd\_dd\_mean/ppm

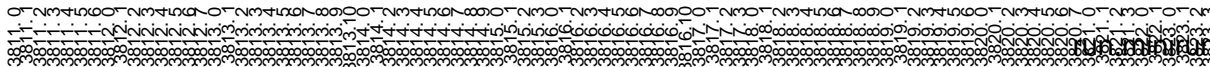
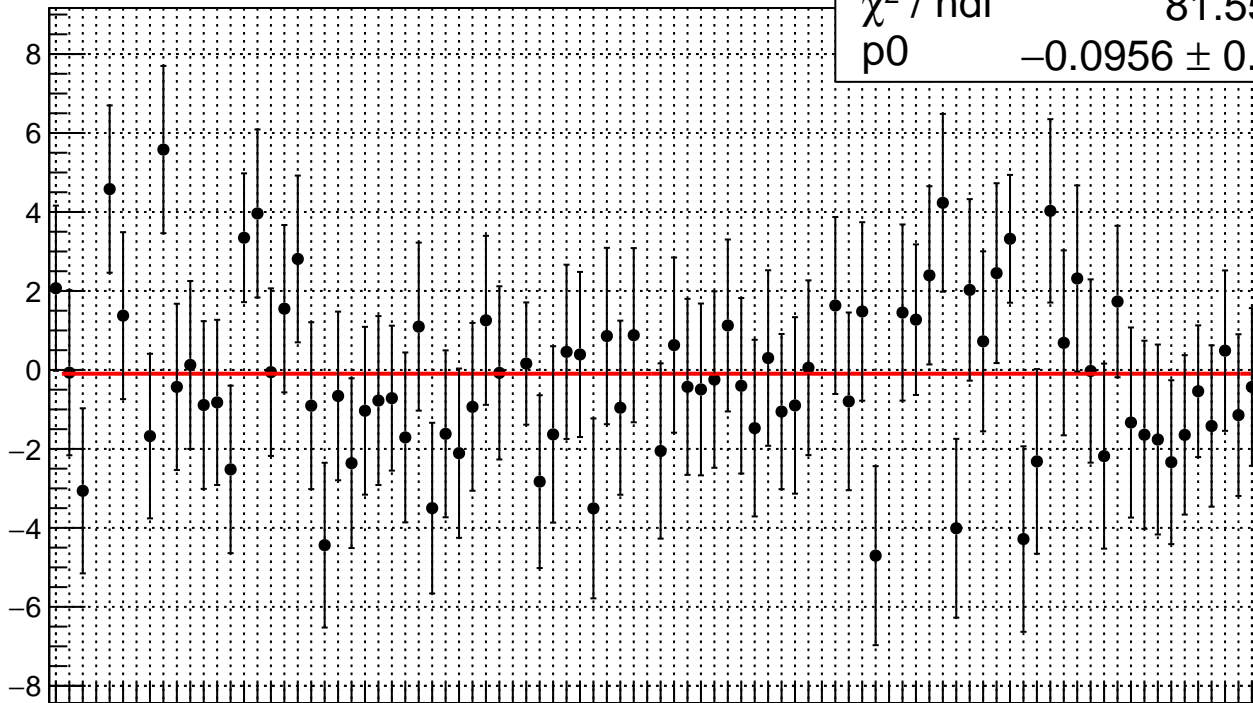
$\chi^2 / \text{ndf}$

81.55 / 83

p0

$-0.0956 \pm 0.2319$

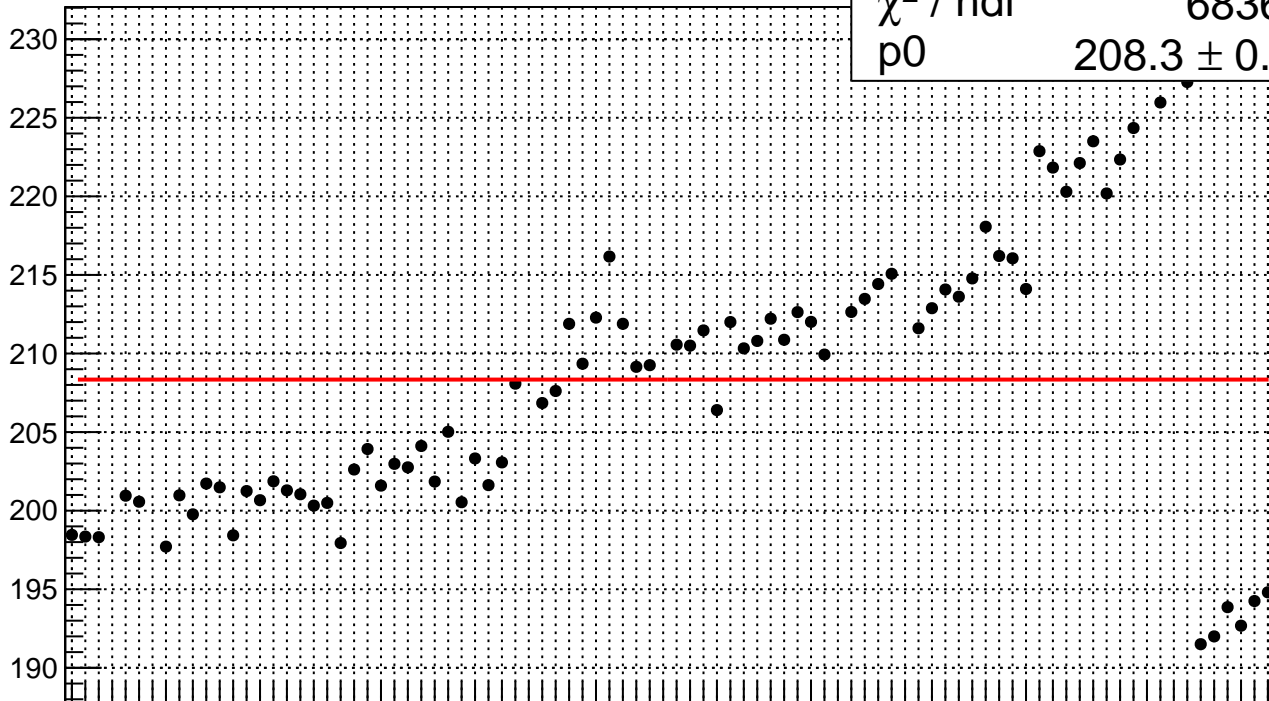
reg\_asym\_atl\_dd\_atr\_dd\_dd\_mean/ppm



reg\_asym\_atl\_dd\_atr\_dd\_dd\_rms/ppm

$\chi^2 / \text{ndf}$  6836 / 83  
p0  $208.3 \pm 0.9902$

reg\_asym\_atl\_dd\_atr\_dd\_dd\_rms/ppm



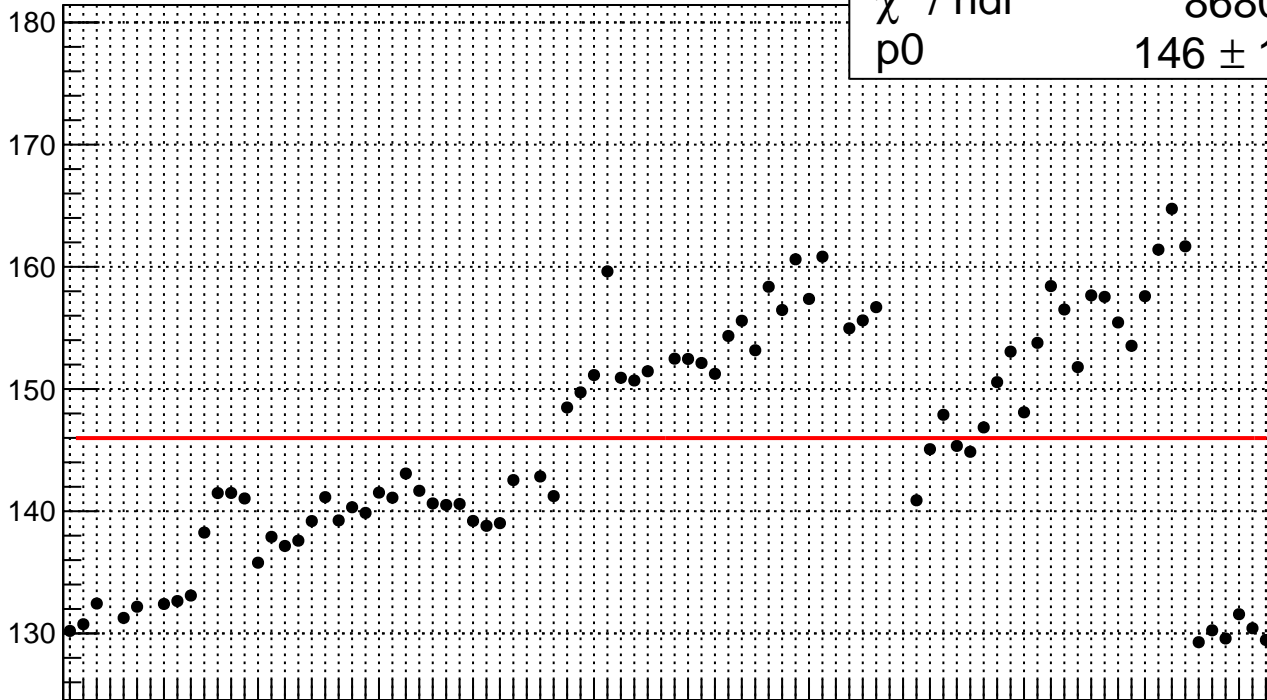
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99



reg\_asym\_usl\_rms/ppm

$\chi^2 / \text{ndf}$	8680 / 83
p0	$146 \pm 1.116$

reg\_asym\_usl\_rms/ppm

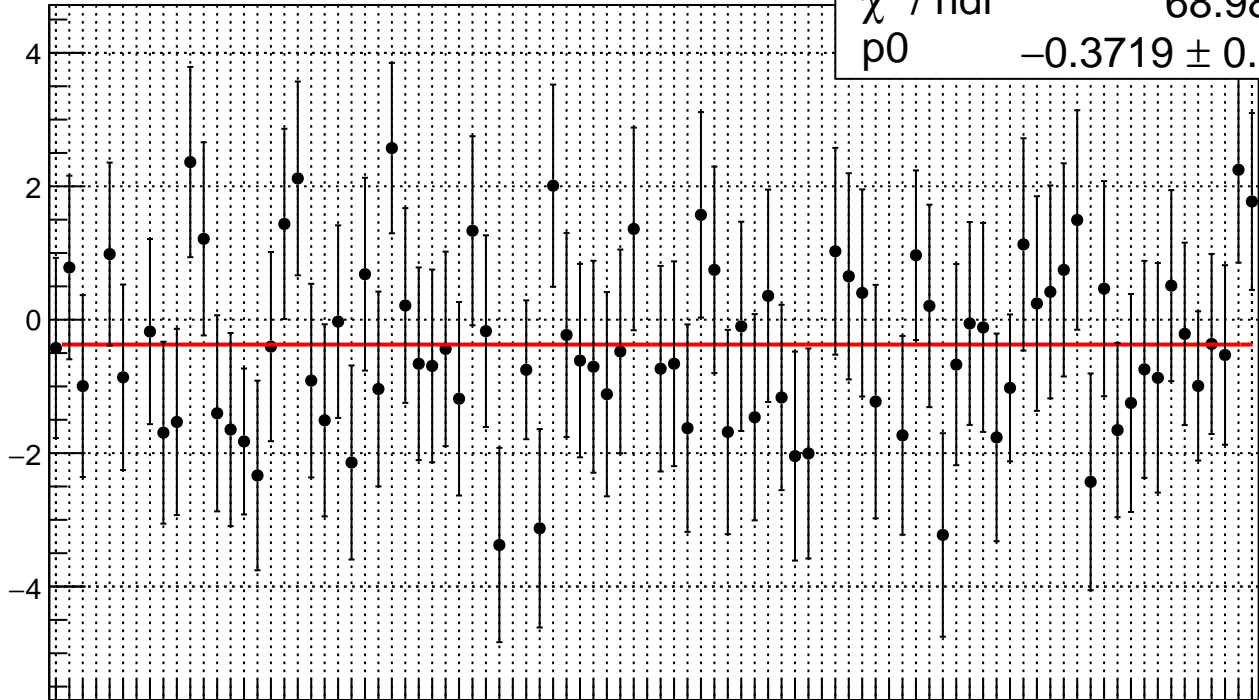


0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83

# reg\_asym\_usr\_mean/ppm

reg\_asym\_usr\_mean/ppm

$\chi^2 / \text{ndf}$  68.98 / 83  
p0  $-0.3719 \pm 0.1579$



0 1 2 3 4 5 6 7 8 9 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z [ \ ] ^ \_ ` a b c d e f g h i j k l m n o p q r s t u v w x y z { | } ~

reg\_asym\_usr\_rms/ppm

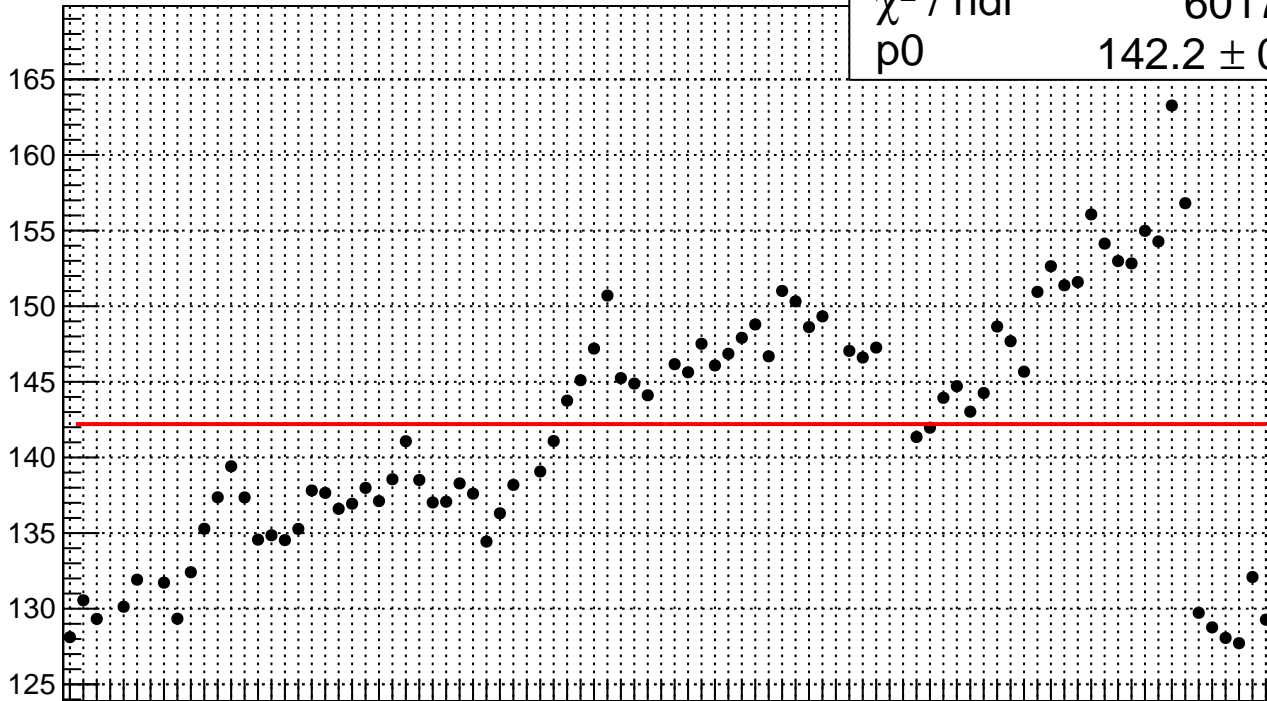
$\chi^2 / \text{ndf}$

6017 / 83

p0

$142.2 \pm 0.929$

reg\_asym\_usr\_rms/ppm



0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99



reg\_asym\_us\_avg\_mean/ppm

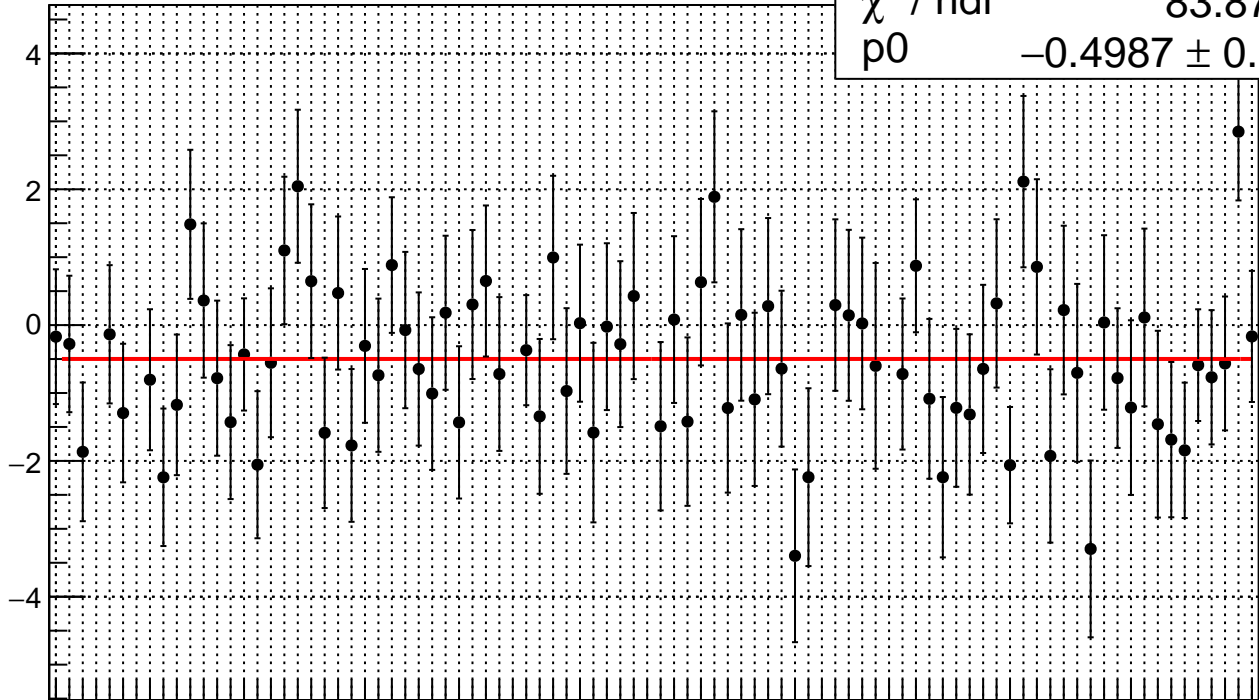
$\chi^2 / \text{ndf}$

83.87 / 83

p0

$-0.4987 \pm 0.1227$

reg\_asym\_us\_avg\_mean/ppm

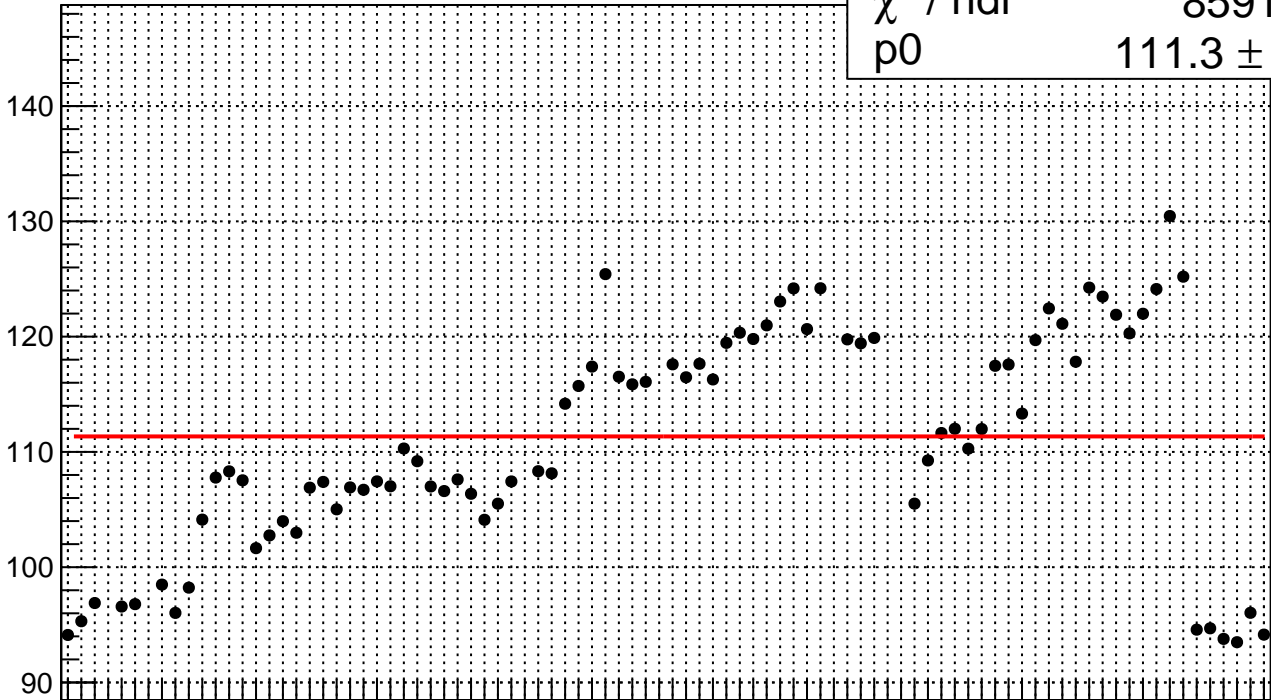


0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99

reg\_asym\_us\_avg\_rms/ppm

$\chi^2 / \text{ndf}$	8591 / 83
p0	$111.3 \pm 1.11$

reg\_asym\_us\_avg\_rms/ppm



0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

reg\_asym\_us\_dd\_mean/ppm

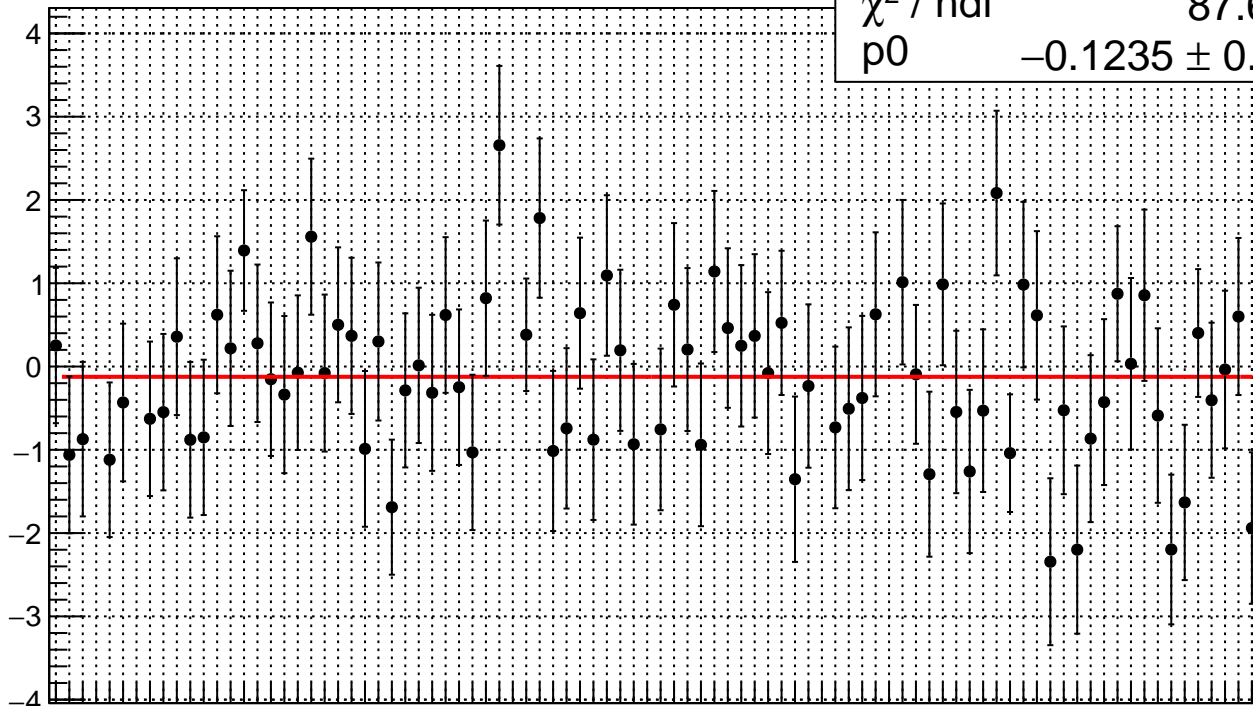
$\chi^2 / \text{ndf}$

87.6 / 83

p0

$-0.1235 \pm 0.1019$

reg\_asym\_us\_dd\_mean/ppm

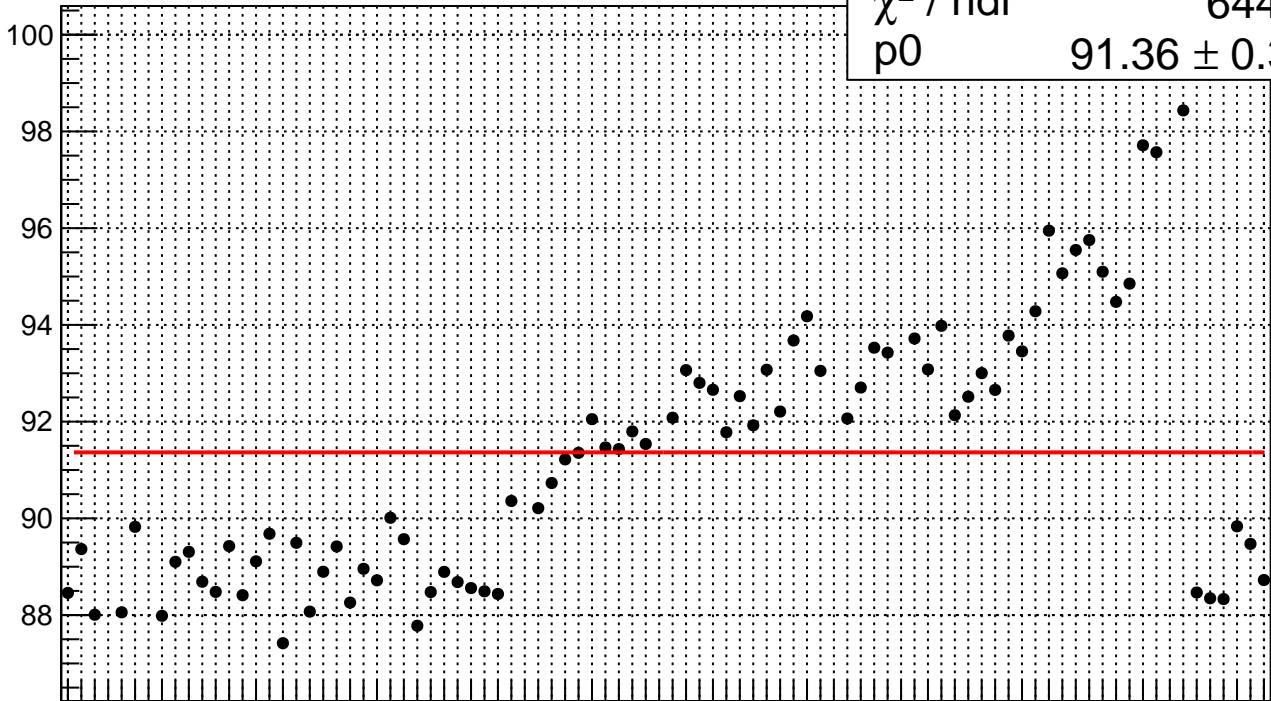


0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 2.0 2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 2.9 3.0 3.1 3.2 3.3 3.4 3.5 3.6 3.7 3.8 3.9 4.0

reg\_asym\_us\_dd\_rms/ppm

$\chi^2 / \text{ndf}$  644 / 83  
p0 91.36 ± 0.3039

reg\_asym\_us\_dd\_rms/ppm



0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100