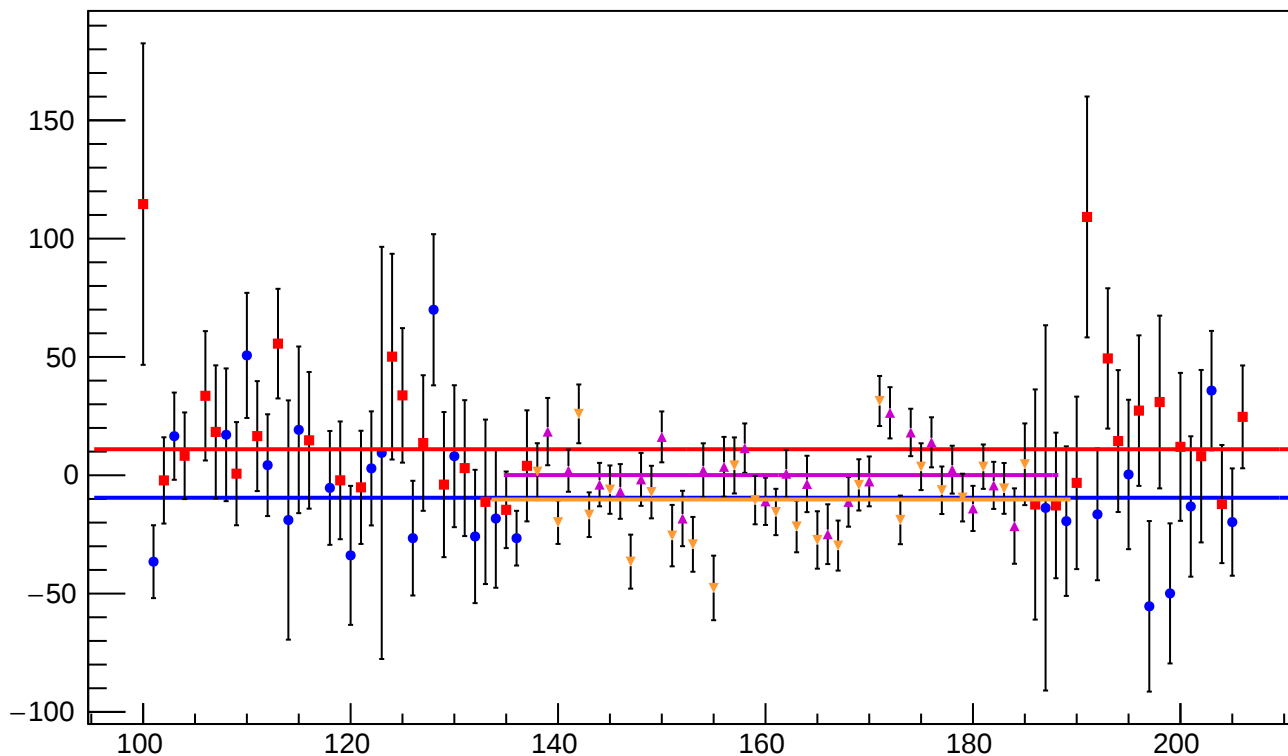


diff_bpm4aX_mean vs Slug, Sign Corrected



Right In: -9.494 ± 4.897

$\chi^2/\text{NDF}: 30.1/25$

Left Out: -10.238 ± 2.170

$\chi^2/\text{NDF}: 58.1/24$

Right Out: 11.003 ± 4.821

$\chi^2/\text{NDF}: 21.4/30$

Left In: 0.080 ± 2.251

$\chi^2/\text{NDF}: 29.9/22$

Left: -5.266 ± 1.562

$\chi^2/\text{NDF}: 98.9/47$

Right: 0.916 ± 3.436

$\chi^2/\text{NDF}: 60.4/56$

In: -1.589 ± 2.045

$\chi^2/\text{NDF}: 63.1/48$

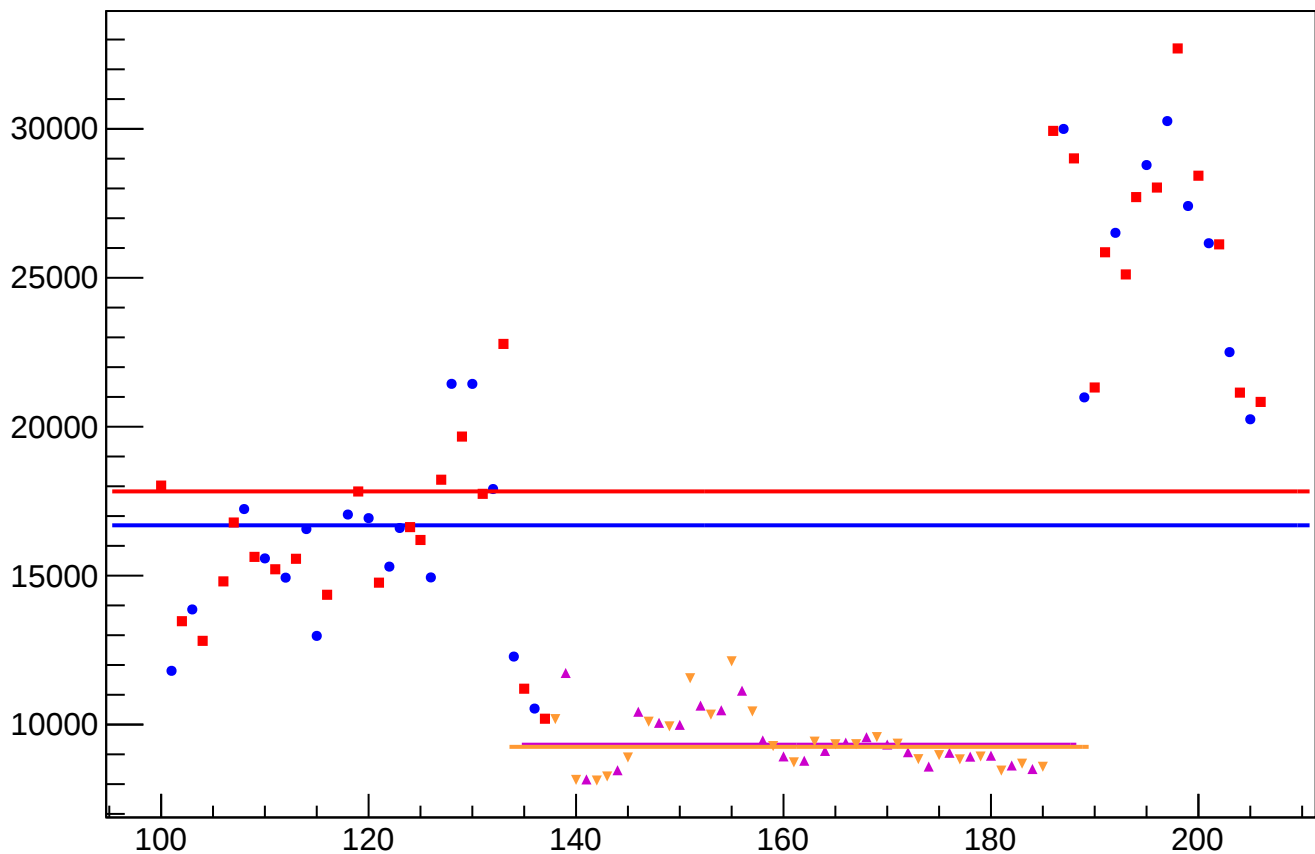
Out: -6.659 ± 1.979

$\chi^2/\text{NDF}: 95.6/55$

All: -4.207 ± 1.422

$\chi^2/\text{NDF}: 161.9/104$

diff_bpm4aX_rms vs Slug, Sign Corrected



Right In: 16689.705 $\pm$ 3.463 χ^2 /NDF: 2559684.1/25

Left Out: 9251.811 $\pm$ 1.535 χ^2 /NDF:332323.3/24

Right Out: 17828.111 $\pm$ 3.409 χ^2 /NDF: 2760193.5/30

Left In: 9323.983 $\pm$ 1.591 χ^2 /NDF:275717.0/22

Left: 9286.587 $\pm$ 1.105 χ^2 /NDF: 609106.1/47

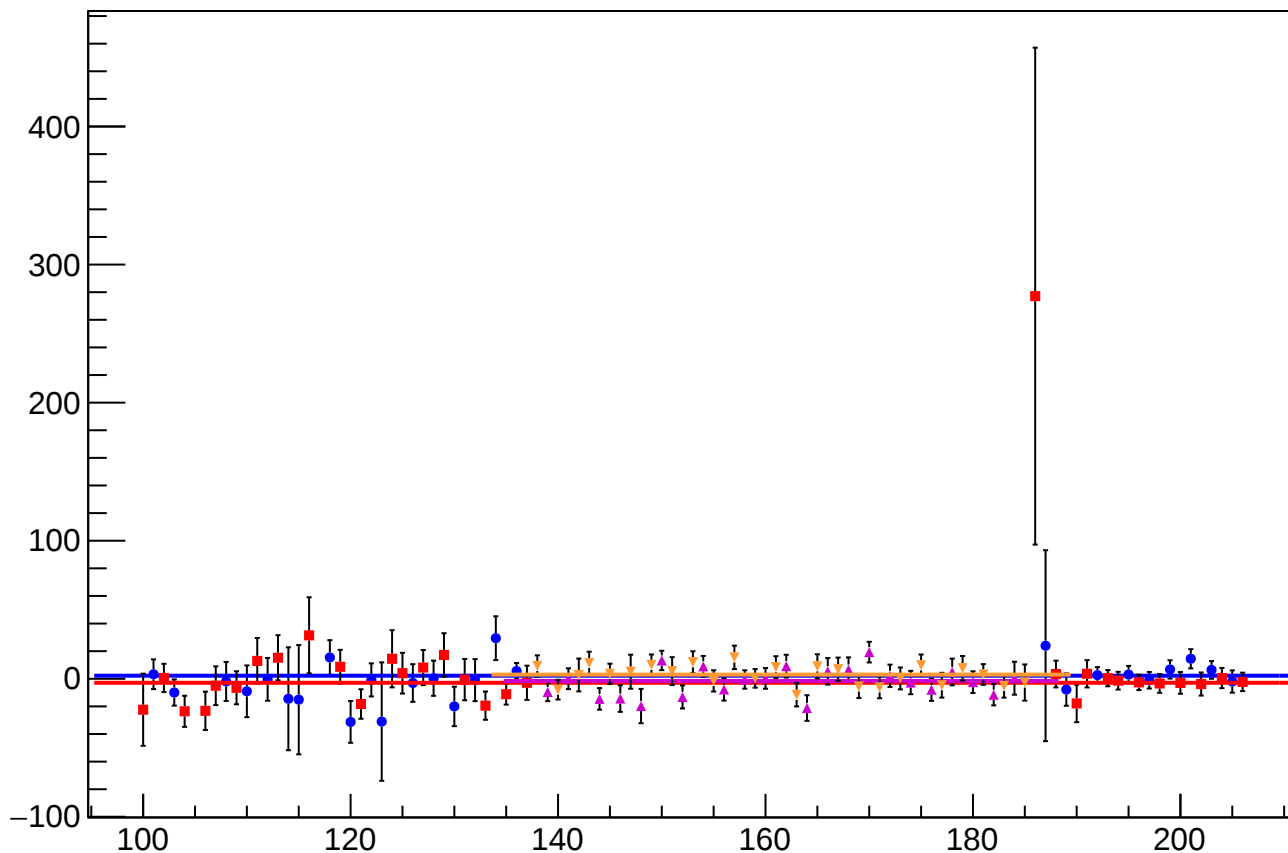
Right: 17267.850 $\pm$ 2.429 χ^2 /NDF: 5374758.3/56

In: 10608.205 $\pm$ 1.446 χ^2 /NDF:6570583.6/48

Out: 10696.857 $\pm$ 1.399 χ^2 /NDF:8355084.1/55

All: 10653.984 $\pm$ 1.006 χ^2 /NDF: 14927608.6

diff_bpm4aY_mean vs Slug, Sign Corrected



Right In: 2.228 $\pm$ 1.894 χ^2/NDF : 20.6/25

Left Out: 3.027 $\pm$ 1.661 χ^2/NDF : 18.6/24

Right Out: -2.892 $\pm$ 1.766 χ^2/NDF : 25.2/30

Left In: -1.588 $\pm$ 1.703 χ^2/NDF : 35.5/22

Left: 0.777 $\pm$ 1.189 χ^2/NDF : 57.8/47

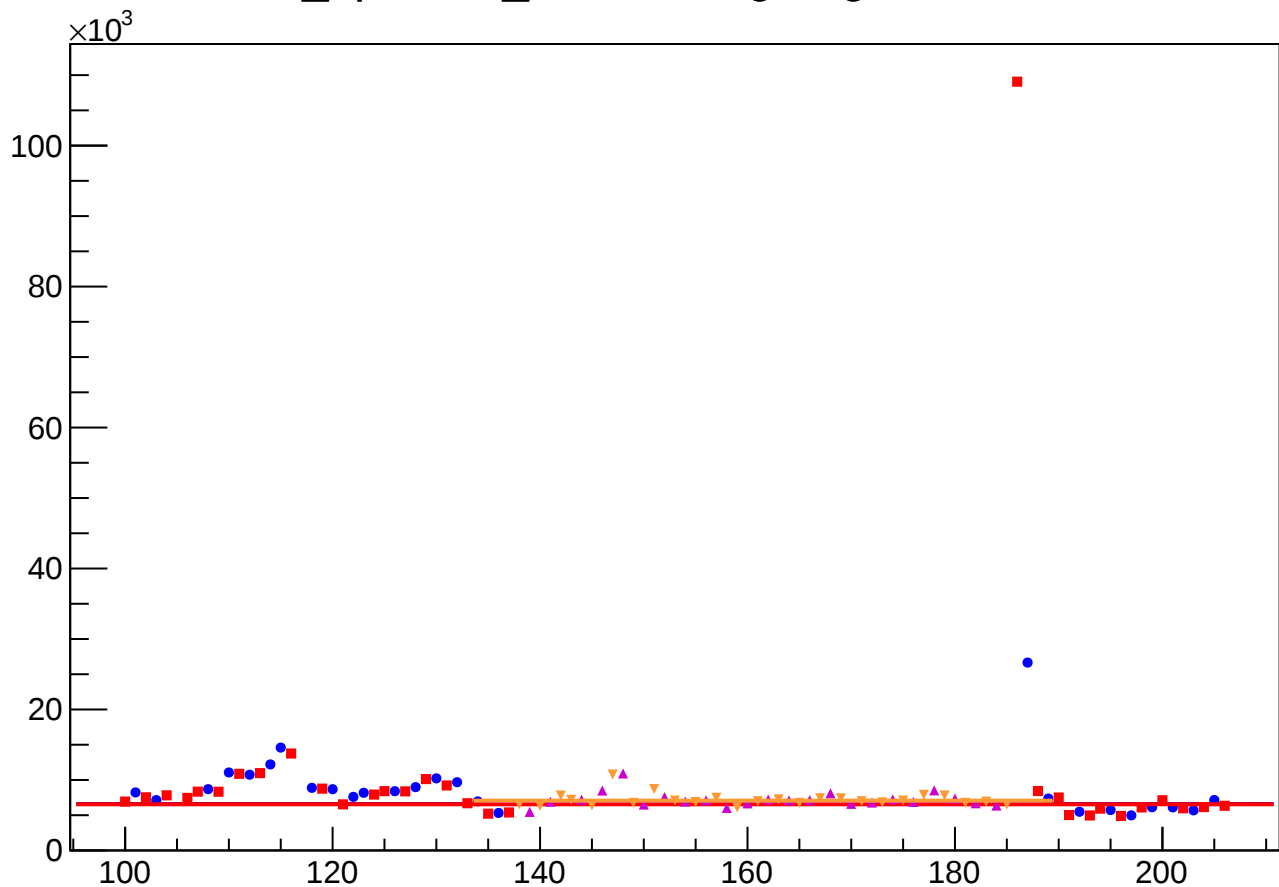
Right: -0.511 $\pm$ 1.292 χ^2/NDF : 49.7/56

In: 0.117 $\pm$ 1.266 χ^2/NDF : 58.3/48

Out: 0.249 $\pm$ 1.210 χ^2/NDF : 49.8/55

All: 0.186 $\pm$ 0.875 χ^2/NDF : 108.1/104

diff_bpm4aY_rms vs Slug, Sign Corrected



Right In: 6585.380+/-1.339 χ^2/NDF : 1517768.7/25

Left Out: 7064.457+/-1.174 χ^2/NDF : 386814.9/24

Right Out: 6552.169+/-1.249 χ^2/NDF : 2102086.7/30

Left In: 7014.572+/-1.204 χ^2/NDF : 525313.7/22

Left: 7040.137+/-0.841 χ^2/NDF : 913008.5/47

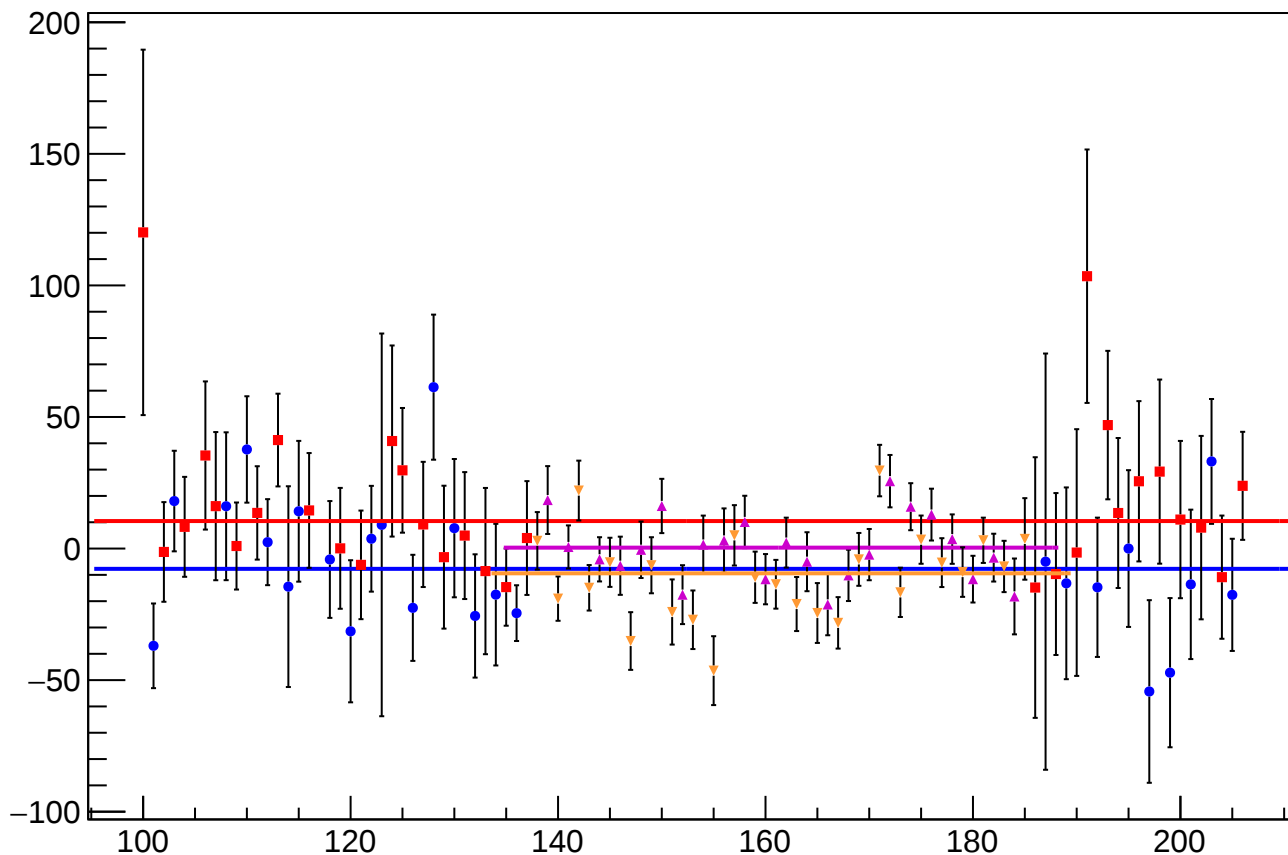
Right: 6567.614+/-0.913 χ^2/NDF : 3620184.4/56

In: 6822.750+/-0.895 χ^2/NDF : 2099884.1/48

Out: 6824.040+/-0.855 χ^2/NDF : 2578230.3/55

All: 6823.424+/-0.618 χ^2/NDF : 4678115.5/100

diff_bpm4eX_mean vs Slug, Sign Corrected



Right In: -7.711 ± 4.458 χ^2/NDF : 30.7/25

Left Out: -9.411 ± 2.021 χ^2/NDF : 58.8/24

Right Out: 10.450 ± 4.355 χ^2/NDF : 21.0/30

Left In: 0.344 ± 2.100 χ^2/NDF : 29.9/22

Left: -4.722 ± 1.456 χ^2/NDF : 99.9/47

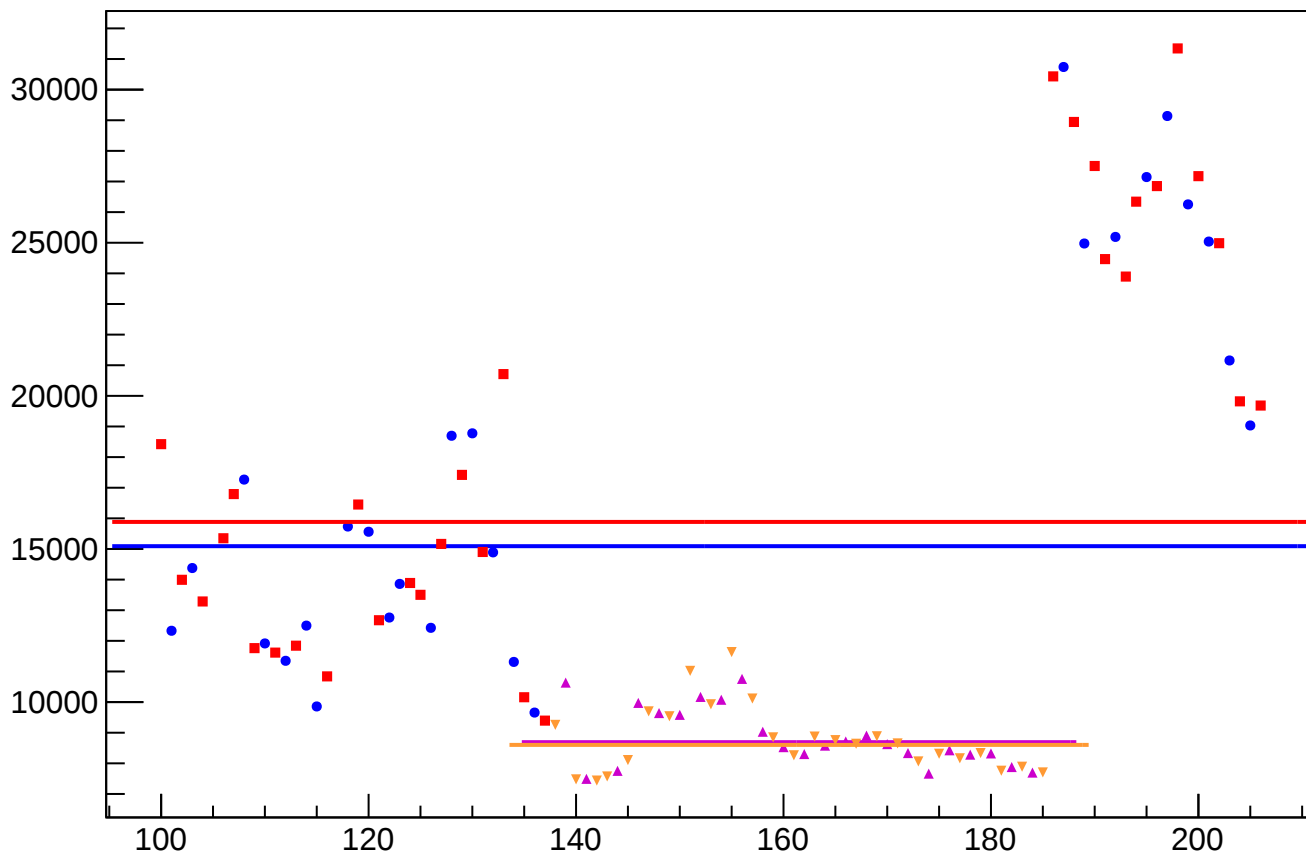
Right: 1.583 ± 3.115 χ^2/NDF : 60.2/56

In: -1.119 ± 1.900 χ^2/NDF : 63.2/48

Out: -5.891 ± 1.833 χ^2/NDF : 96.9/55

All: -3.591 ± 1.319 χ^2/NDF : 163.4/104

diff_bpm4eX_rms vs Slug, Sign Corrected



Right In: 15091.327+/-3.153 χ^2/NDF : 2944213.2/25

Left Out: 8602.220+/-1.429 χ^2/NDF : 438805.2/24

Right Out: 15883.654+/-3.079 χ^2/NDF : 3480536.7/30

Left In: 8691.203+/-1.485 χ^2/NDF : 365254.6/22

Left: 8644.996+/-1.030 χ^2/NDF : 805923.5/47

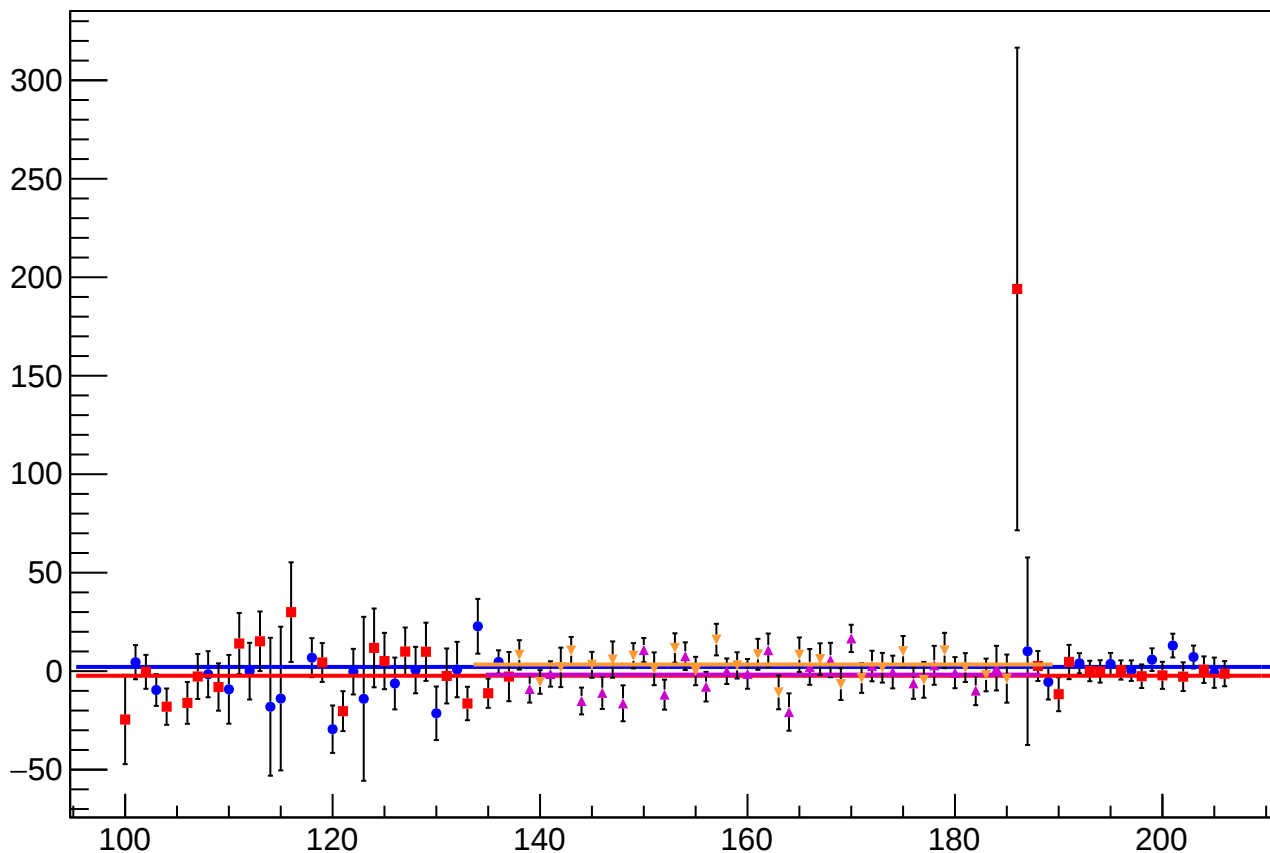
Right: 15496.815+/-2.203 χ^2/NDF : 6457075.9/56

In: 9853.755+/-1.344 χ^2/NDF : 6682242.9/48

Out: 9892.607+/-1.296 χ^2/NDF : 8520177.6/55

All: 9873.878+/-0.933 χ^2/NDF : 15202853.5/103

diff_bpm4eY_mean vs Slug, Sign Corrected



Right In: 2.153+/-1.686 χ^2/NDF : 22.0/25

Left Out: 3.374+/-1.552 χ^2/NDF : 17.2/24

Right Out: -2.324+/-1.558 χ^2/NDF : 25.9/30

Left In: -1.756+/-1.607 χ^2/NDF : 33.5/22

Left: 0.899+/-1.116 χ^2/NDF : 56.0/47

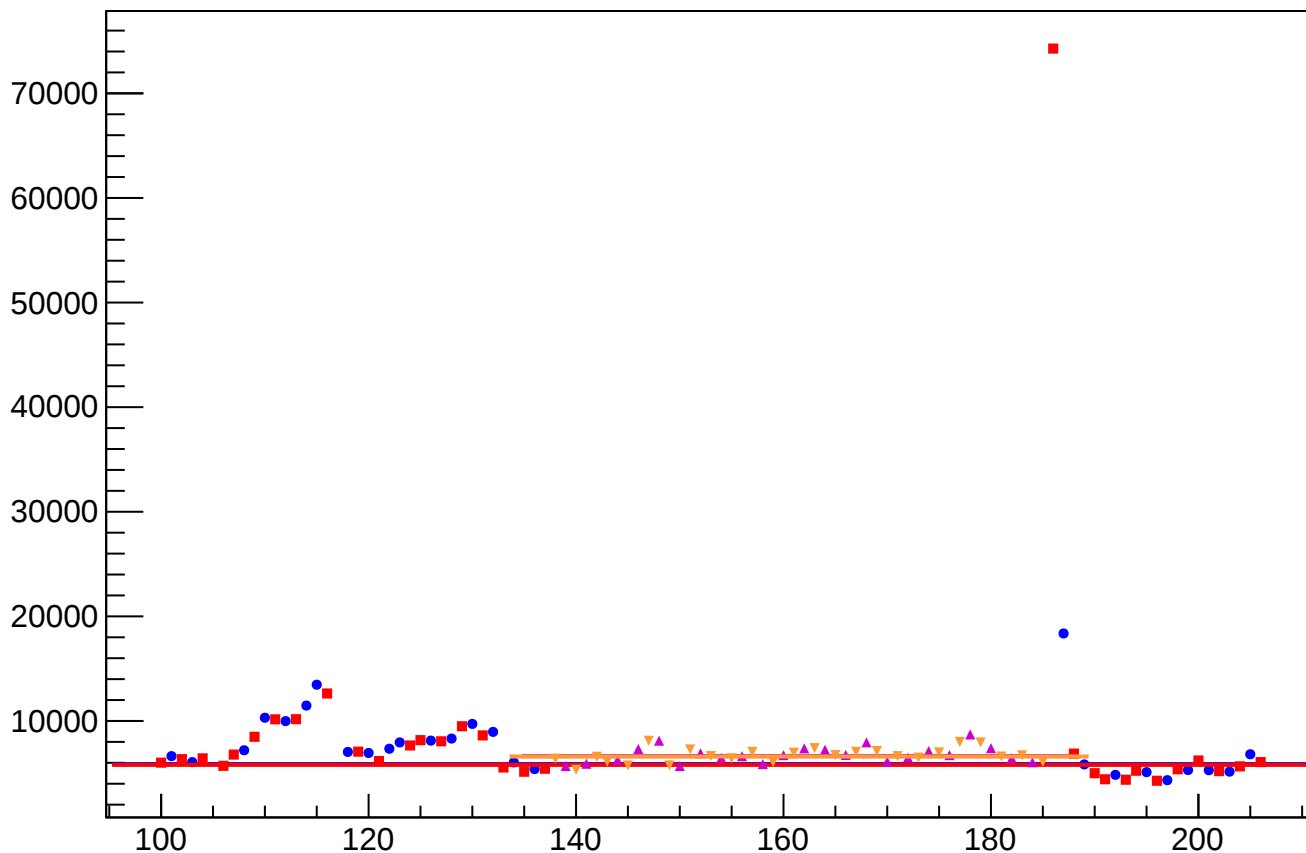
Right: -0.262+/-1.144 χ^2/NDF : 51.8/56

In: 0.105+/-1.163 χ^2/NDF : 58.4/48

Out: 0.537+/-1.100 χ^2/NDF : 49.8/55

All: 0.333+/-0.799 χ^2/NDF : 108.3/104

diff_bpm4eY_rms vs Slug, Sign Corrected



Right In: 5875.528+/-1.192 χ^2/NDF : 1492294.5/25

Left Out: 6603.953+/-1.097 χ^2/NDF : 395247.5/24

Right Out: 5802.732+/-1.102 χ^2/NDF : 2132962.4/30

Left In: 6637.155+/-1.136 χ^2/NDF : 415547.5/22

Left: 6619.974+/-0.789 χ^2/NDF : 811236.9/47

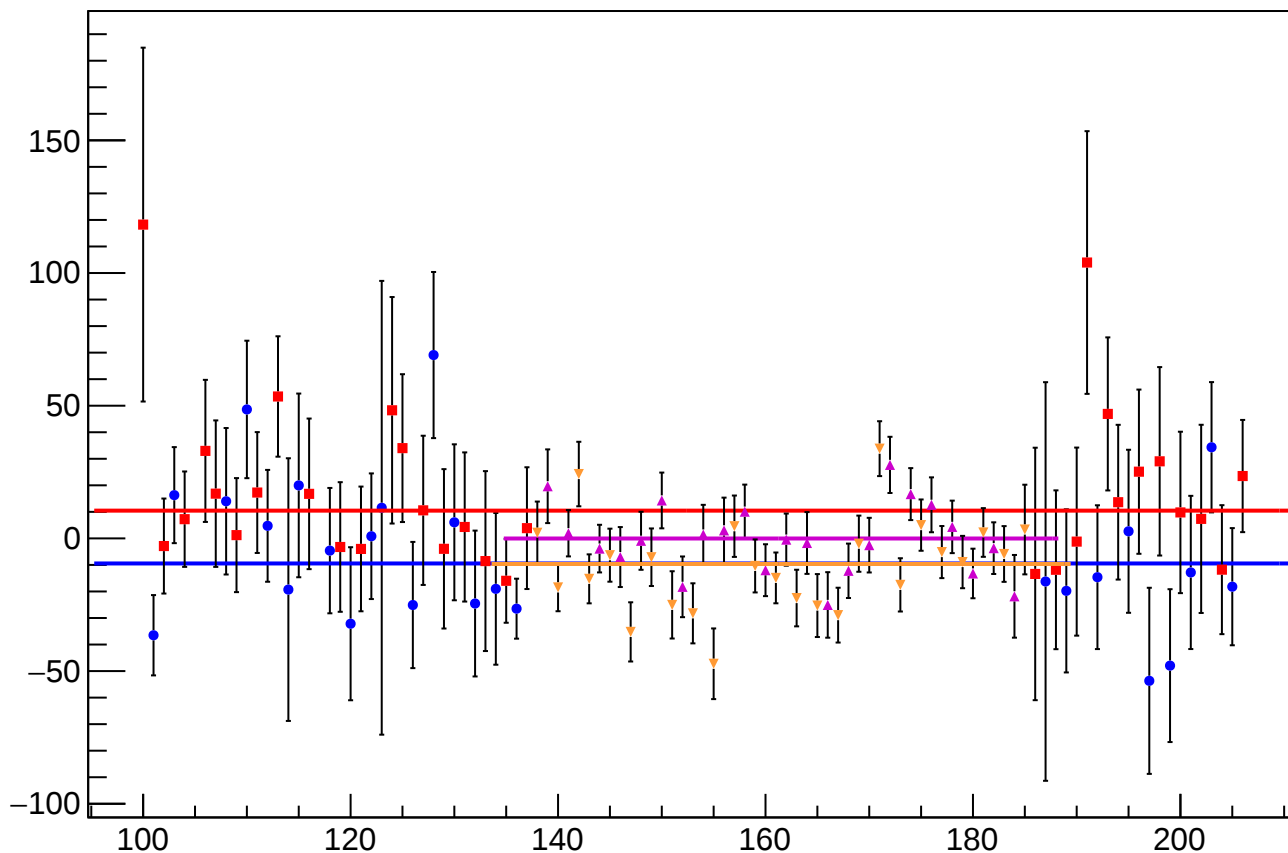
Right: 5836.264+/-0.809 χ^2/NDF : 3627267.2/56

In: 6274.666+/-0.823 χ^2/NDF : 2121656.5/48

Out: 6205.030+/-0.778 χ^2/NDF : 2793670.1/55

All: 6237.888+/-0.565 χ^2/NDF : 4919111.4/100

diff_bpm4acX_mean vs Slug, Sign Corrected



Right In: -9.446 $\pm$ 4.792 χ^2 /NDF: 29.8/25

Left Out: -9.640 $\pm$ 2.122 χ^2 /NDF: 59.9/24

Right Out: 10.461 $\pm$ 4.717 χ^2 /NDF: 21.4/30

Left In: -0.042 $\pm$ 2.200 χ^2 /NDF: 30.8/22

Left: -5.015 $\pm$ 1.527 χ^2 /NDF: 100.5/47

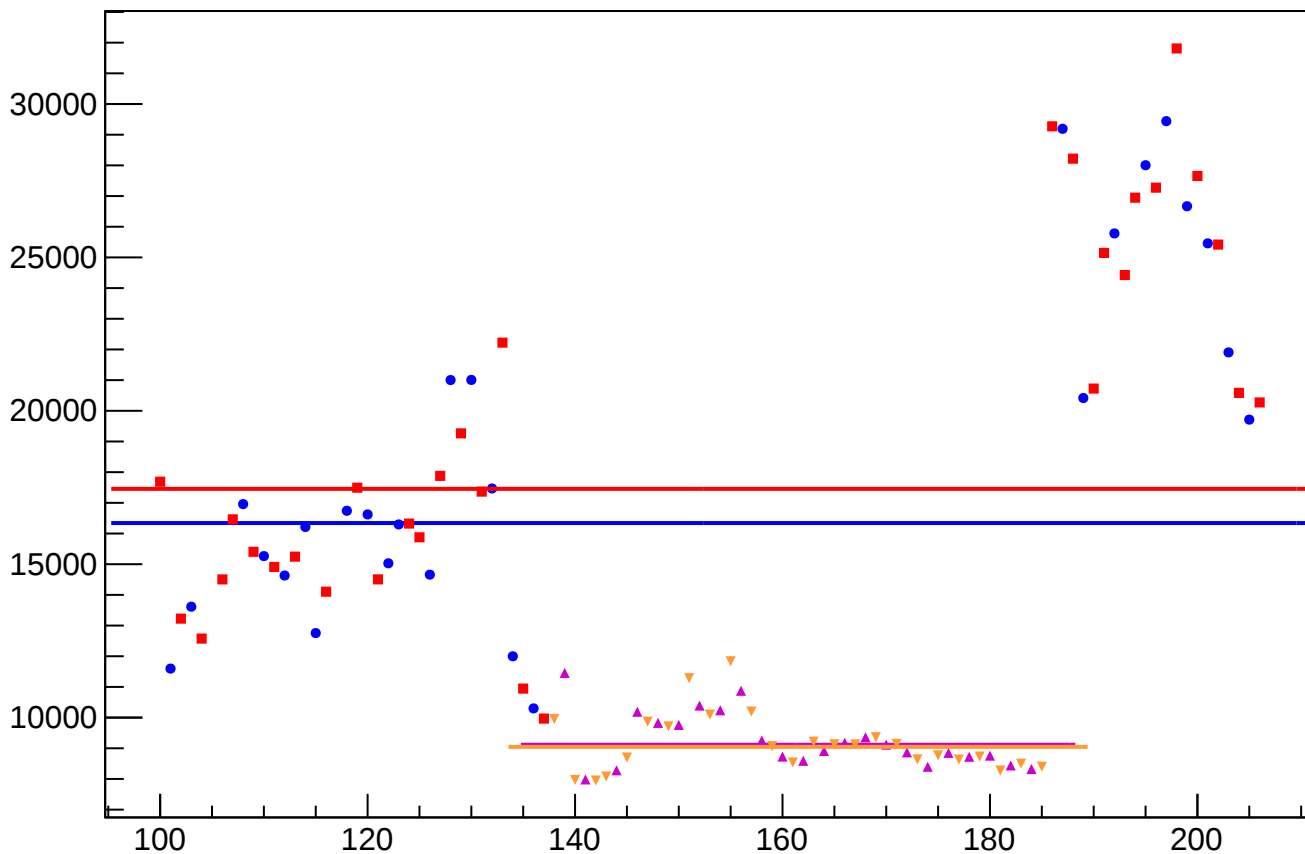
Right: 0.665 $\pm$ 3.361 χ^2 /NDF: 60.0/56

In: -1.679 $\pm$ 1.999 χ^2 /NDF: 63.8/48

Out: -6.257 $\pm$ 1.935 χ^2 /NDF: 96.4/55

All: -4.043 $\pm$ 1.390 χ^2 /NDF: 162.8/104

diff_bpm4acX_rms vs Slug, Sign Corrected



Right In: 16342.206 $\pm$ 3.388 χ^2 /NDF: 2524031.7/25

Left Out: 9045.871 $\pm$ 1.500 χ^2 /NDF:328508.5/24

Right Out: 17456.163 $\pm$ 3.335 χ^2 /NDF: 2713832.4/30

Left In: 9115.817 $\pm$ 1.556 χ^2 /NDF:272471.8/22

Left: 9079.576 $\pm$ 1.080 χ^2 /NDF: 602027.6/47

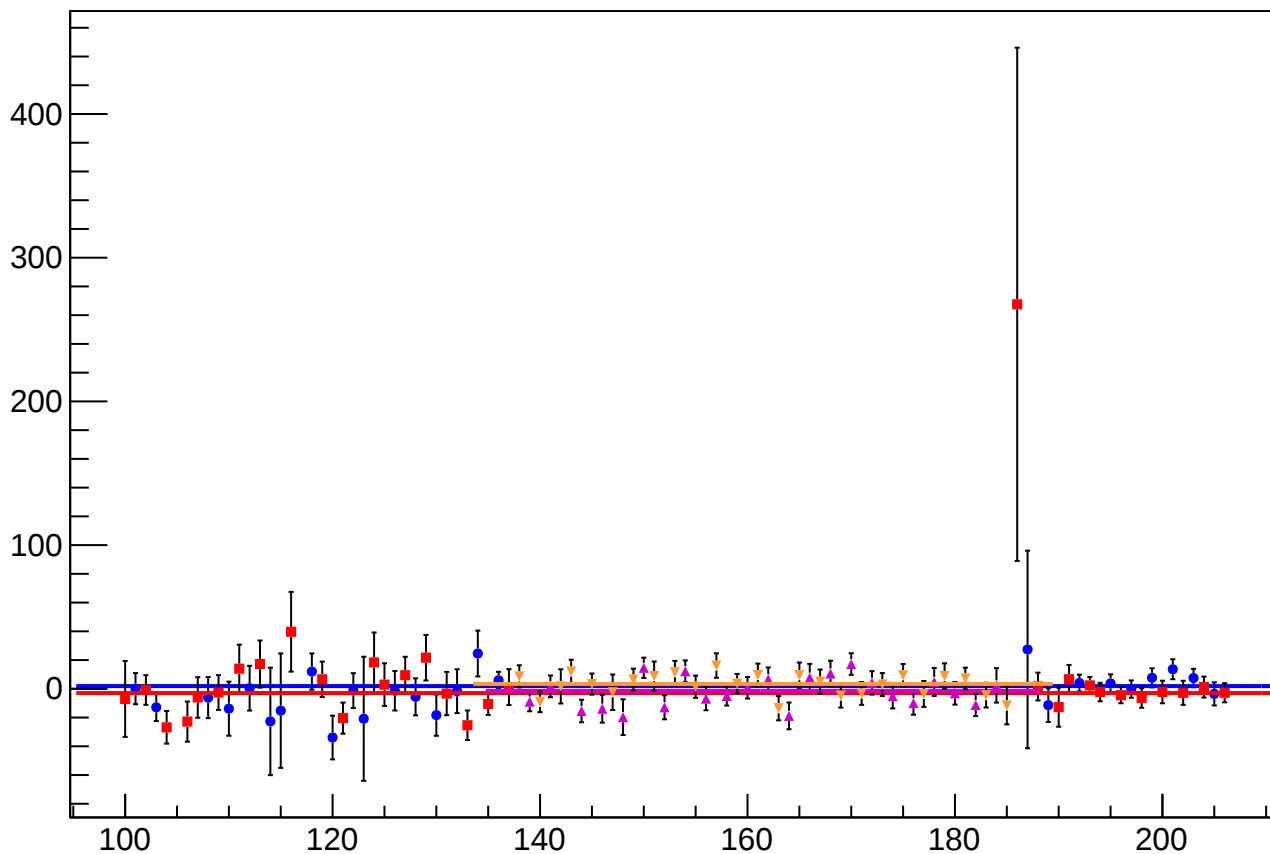
Right: 16908.003 $\pm$ 2.377 χ^2 /NDF: 5292762.3/56

In: 10374.004 $\pm$ 1.414 χ^2 /NDF:6553104.4/48

Out: 10461.377 $\pm$ 1.368 χ^2 /NDF:8331286.7/55

All: 10419.123 $\pm$ 0.983 χ^2 /NDF: 14886363.2

diff_bpm4acY_mean vs Slug, Sign Corrected



Right In: 1.887 $\pm$ 1.901 χ^2/NDF : 22.0/25

Left Out: 3.387 $\pm$ 1.668 χ^2/NDF : 19.4/24

Right Out: -2.966 $\pm$ 1.773 χ^2/NDF : 30.5/30

Left In: -1.479 $\pm$ 1.710 χ^2/NDF : 36.7/22

Left: 1.015 $\pm$ 1.194 χ^2/NDF : 60.3/47

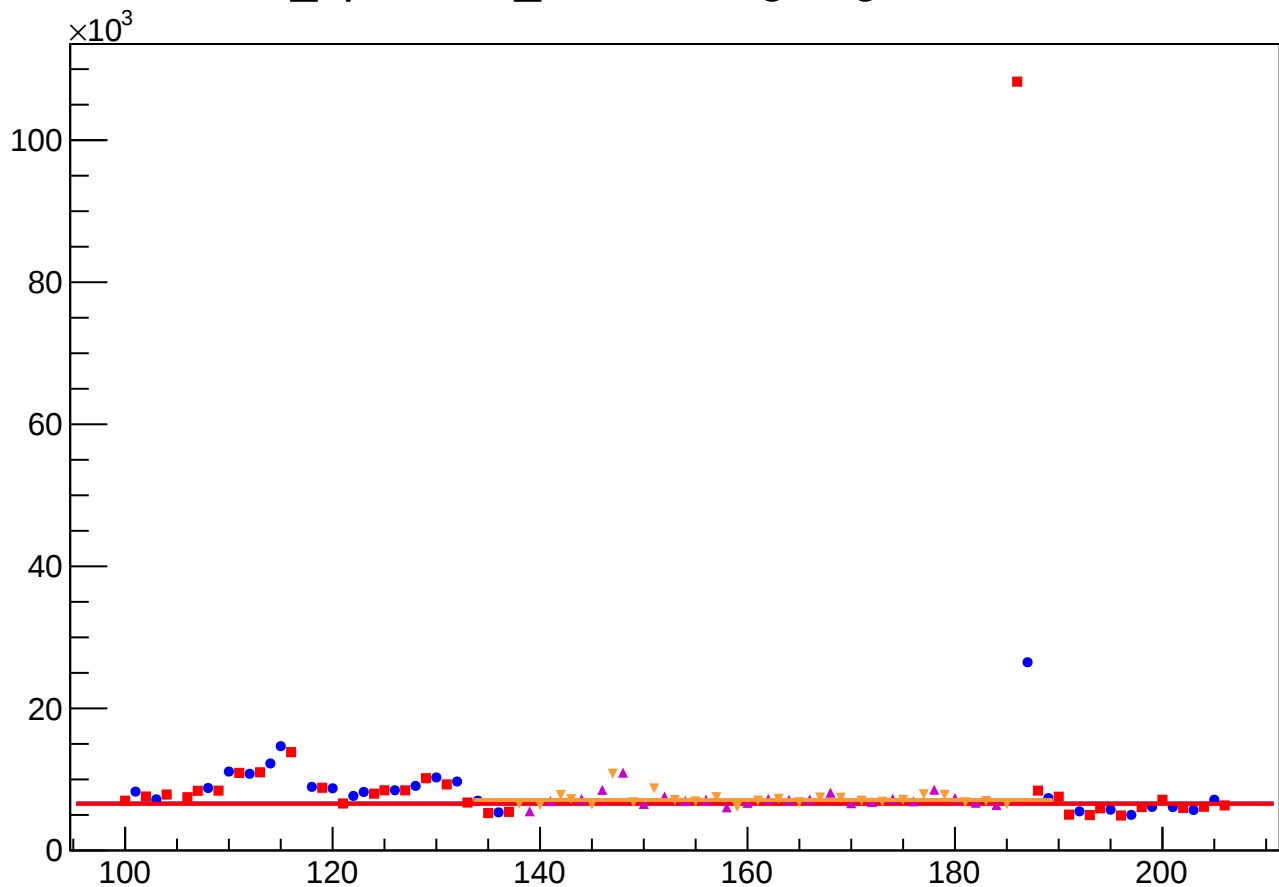
Right: -0.709 $\pm$ 1.297 χ^2/NDF : 56.1/56

In: 0.026 $\pm$ 1.271 χ^2/NDF : 60.5/48

Out: 0.404 $\pm$ 1.215 χ^2/NDF : 56.7/55

All: 0.224 $\pm$ 0.878 χ^2/NDF : 117.3/104

diff_bpm4acY_rms vs Slug, Sign Corrected



Right In: 6609.961 $\pm$ 1.344 χ^2/NDF : 1526176.7/25

Left Out: 7096.350 $\pm$ 1.179 χ^2/NDF : 381942.1/24

Right Out: 6579.262 $\pm$ 1.254 χ^2/NDF : 2107452.5/30

Left In: 7047.269 $\pm$ 1.209 χ^2/NDF : 517433.5/22

Left: 7072.425 $\pm$ 0.844 χ^2/NDF : 900219.9/47

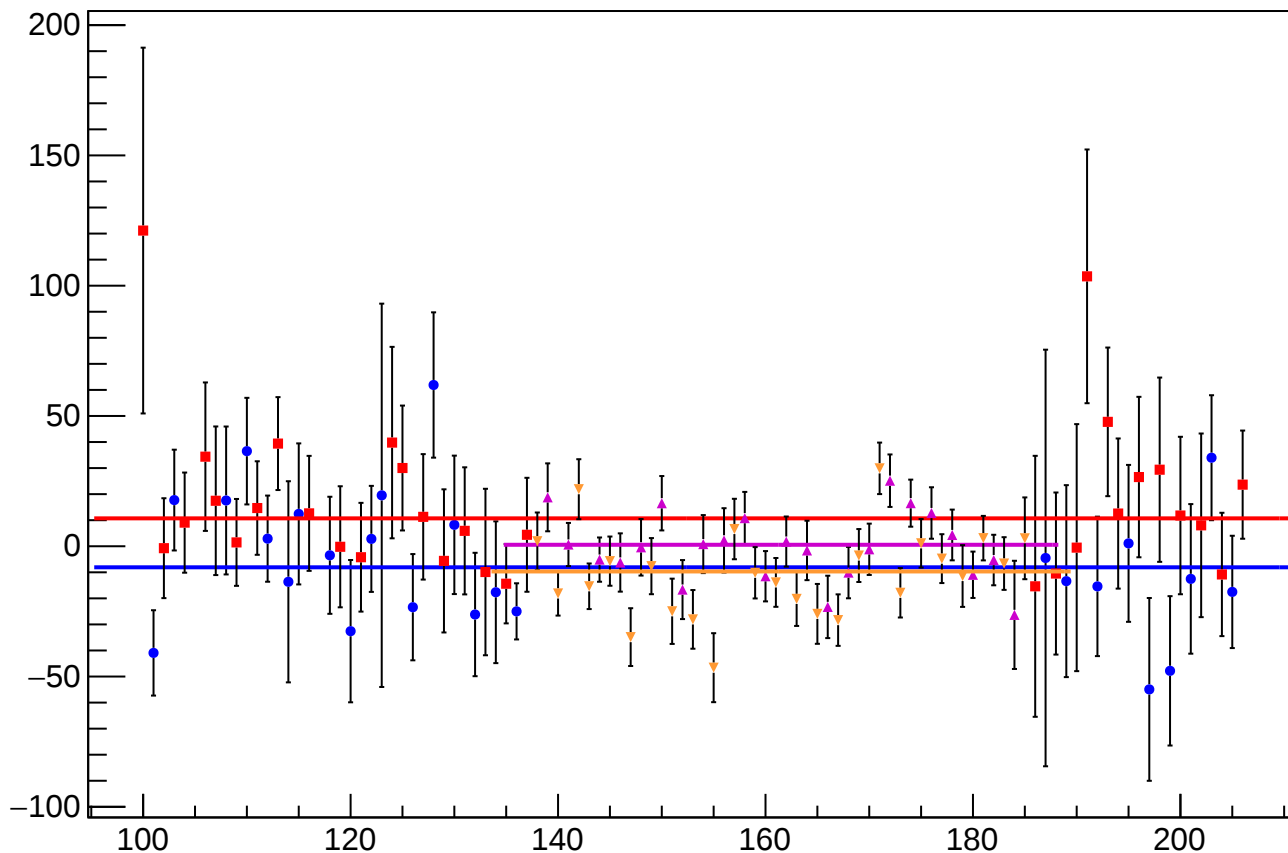
Right: 6593.542 $\pm$ 0.917 χ^2/NDF : 3633908.1/56

In: 6851.664 $\pm$ 0.899 χ^2/NDF : 2102101.4/48

Out: 6853.591 $\pm$ 0.859 χ^2/NDF : 2579647.6/55

All: 6852.671 $\pm$ 0.621 χ^2/NDF : 4681751.5/100

diff_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -8.079 $\pm$ 4.516 χ^2/NDF : 31.3/25

Left Out: -9.670 $\pm$ 2.061 χ^2/NDF : 57.9/24

Right Out: 10.705 $\pm$ 4.413 χ^2/NDF : 20.0/30

Left In: 0.564 $\pm$ 2.144 χ^2/NDF : 29.7/22

Left: -4.755 $\pm$ 1.486 χ^2/NDF : 99.5/47

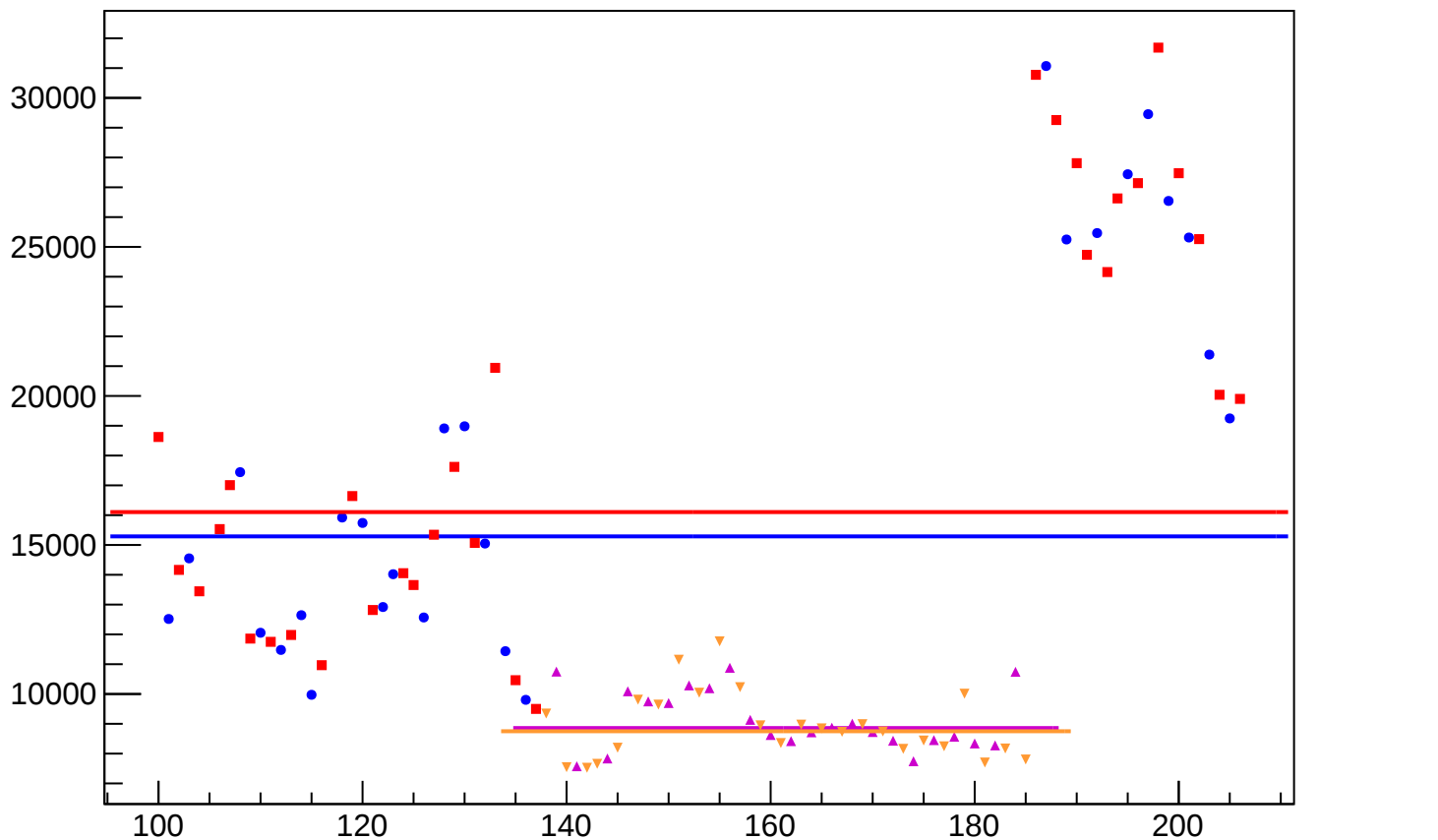
Right: 1.529 $\pm$ 3.156 χ^2/NDF : 60.2/56

In: -1.026 $\pm$ 1.937 χ^2/NDF : 64.0/48

Out: -6.023 $\pm$ 1.867 χ^2/NDF : 95.5/55

All: -3.616 $\pm$ 1.344 χ^2/NDF : 162.9/104

diff_bpm4ecX_rms vs Slug, Sign Corrected



Right In: 15288.021 $\pm$ 3.193 χ^2/NDF : 2924994.6/25

Left Out: 8750.420 $\pm$ 1.457 χ^2/NDF : 463880.1/24

Right Out: 16103.653 $\pm$ 3.121 χ^2/NDF : 3445515.1/30

Left In: 8857.329 $\pm$ 1.516 χ^2/NDF : 361778.8/22

Left: 8801.764 $\pm$ 1.050 χ^2/NDF : 828244.3/47

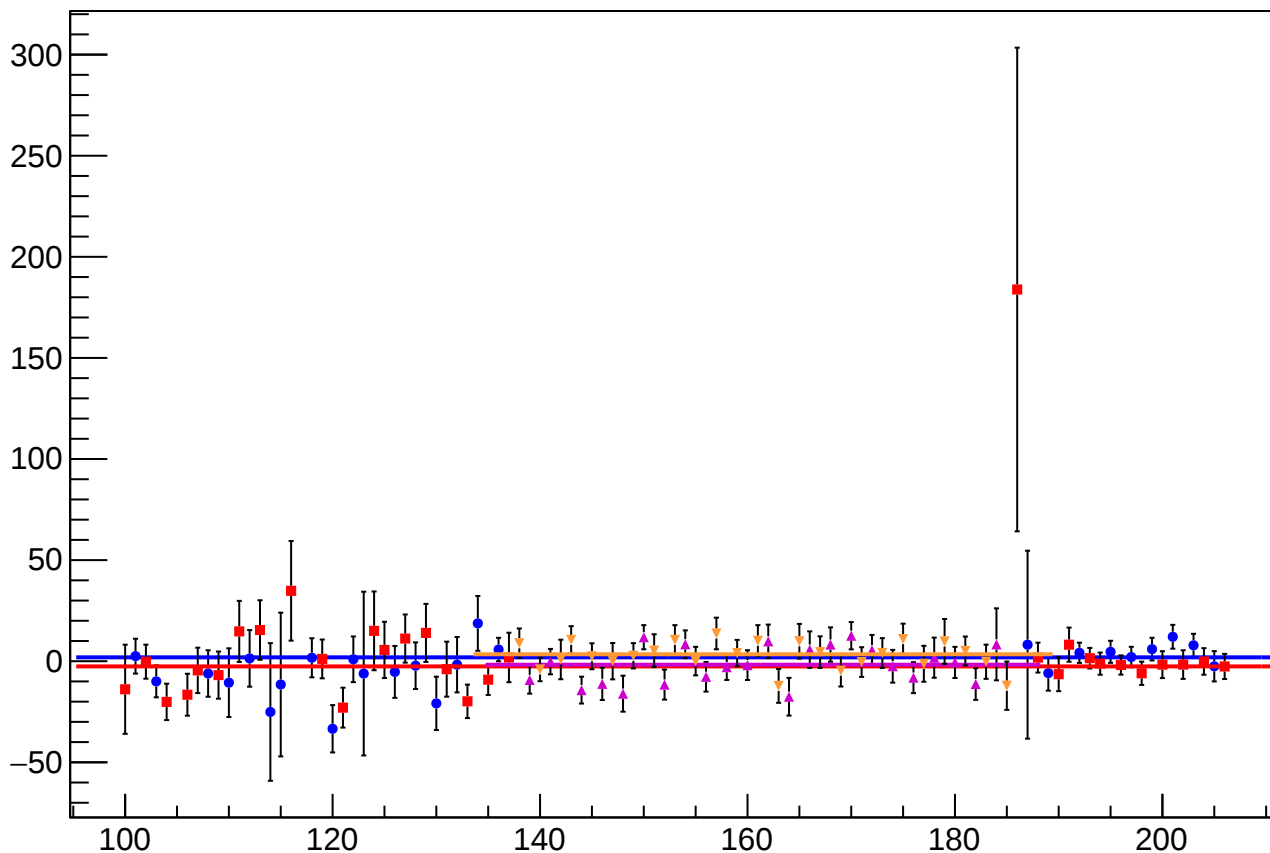
Right: 15705.220 $\pm$ 2.232 χ^2/NDF : 6403881.4/56

In: 10039.903 $\pm$ 1.369 χ^2/NDF : 6596563.9/48

Out: 10066.619 $\pm$ 1.320 χ^2/NDF : 8467982.5/55

All: 10053.749 $\pm$ 0.950 χ^2/NDF : 15064743.6

diff_bpm4ecY_mean vs Slug, Sign Corrected



Right In: 1.916 ± 1.645 χ^2/NDF : 24.9/25

Left Out: 3.433 ± 1.526 χ^2/NDF : 16.2/24

Right Out: -2.567 ± 1.519 χ^2/NDF : 30.6/30

Left In: -1.734 ± 1.586 χ^2/NDF : 33.6/22

Left: 0.949 ± 1.099 χ^2/NDF : 55.3/47

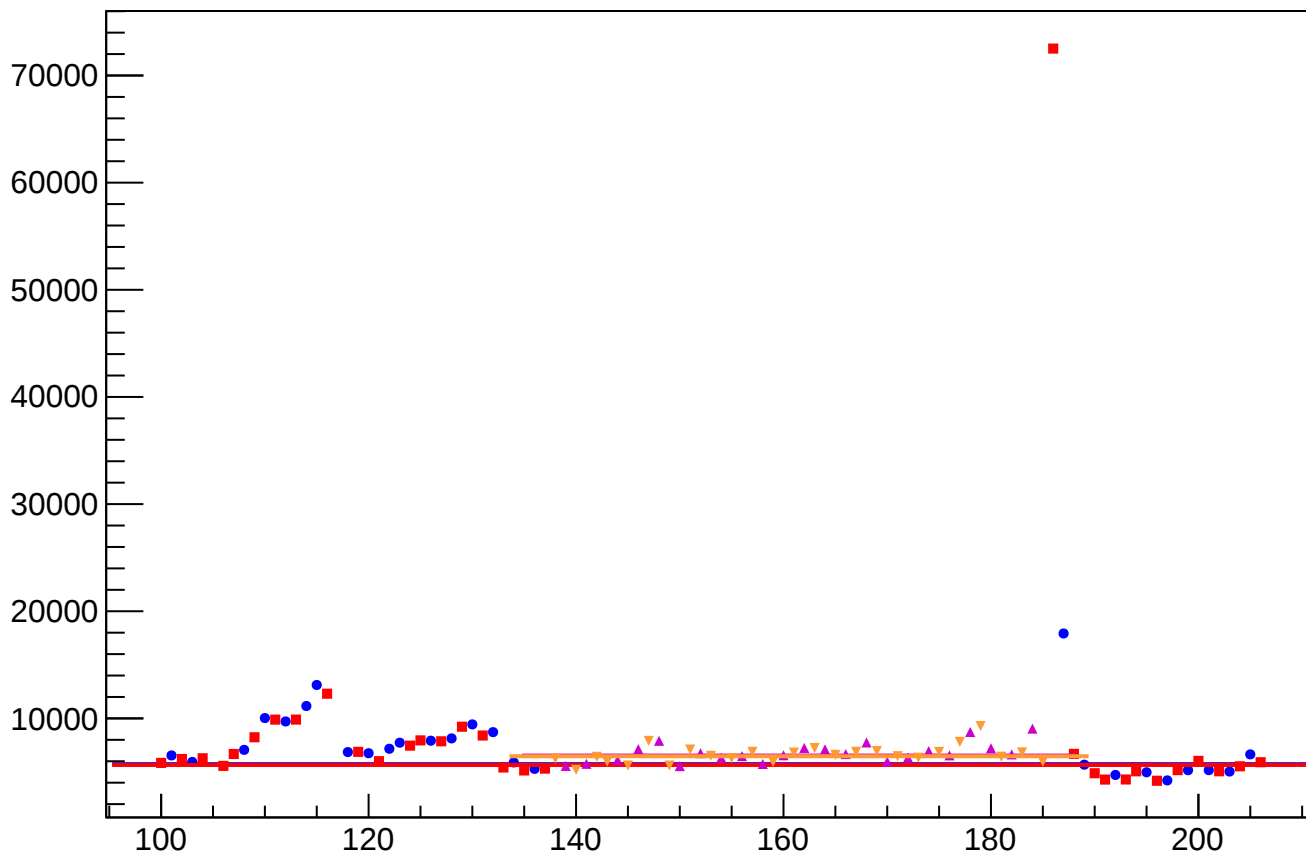
Right: -0.503 ± 1.116 χ^2/NDF : 59.5/56

In: 0.024 ± 1.142 χ^2/NDF : 61.1/48

Out: 0.421 ± 1.077 χ^2/NDF : 54.6/55

All: 0.234 ± 0.783 χ^2/NDF : 115.7/104

diff_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 5728.256 $\pm$ 1.163 χ^2/NDF : 1498463.3/25

Left Out: 6468.872 $\pm$ 1.079 χ^2/NDF : 487187.3/24

Right Out: 5655.105 $\pm$ 1.074 χ^2/NDF : 2123595.3/30

Left In: 6530.954 $\pm$ 1.121 χ^2/NDF : 464668.6/22

Left: 6498.713 $\pm$ 0.777 χ^2/NDF : 953447.7/47

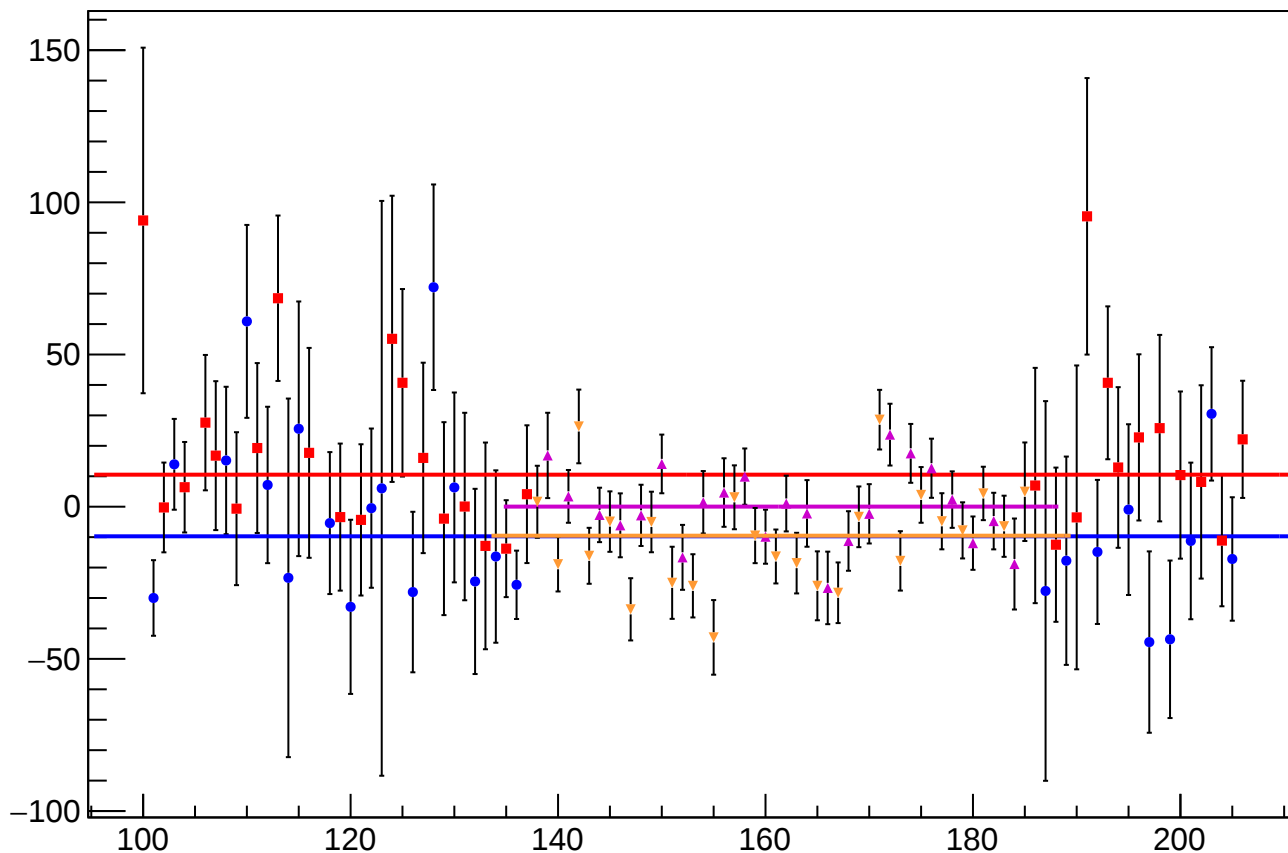
Right: 5688.780 $\pm$ 0.789 χ^2/NDF : 3624192.9/56

In: 6144.291 $\pm$ 0.807 χ^2/NDF : 2209963.5/48

Out: 6060.297 $\pm$ 0.761 χ^2/NDF : 2896470.9/55

All: 6099.829 $\pm$ 0.554 χ^2/NDF : 5112164.5/10

diff_bpm1X_mean vs Slug, Sign Corrected



Right In: -9.729 ± 4.608 $\chi^2/\text{NDF}: 29.0/25$

Left Out: -9.528 ± 2.015 $\chi^2/\text{NDF}: 59.6/24$

Right Out: 10.521 ± 4.538 $\chi^2/\text{NDF}: 21.8/30$

Left In: 0.027 ± 2.080 $\chi^2/\text{NDF}: 29.9/22$

Left: -4.902 ± 1.447 $\chi^2/\text{NDF}: 100.3/47$

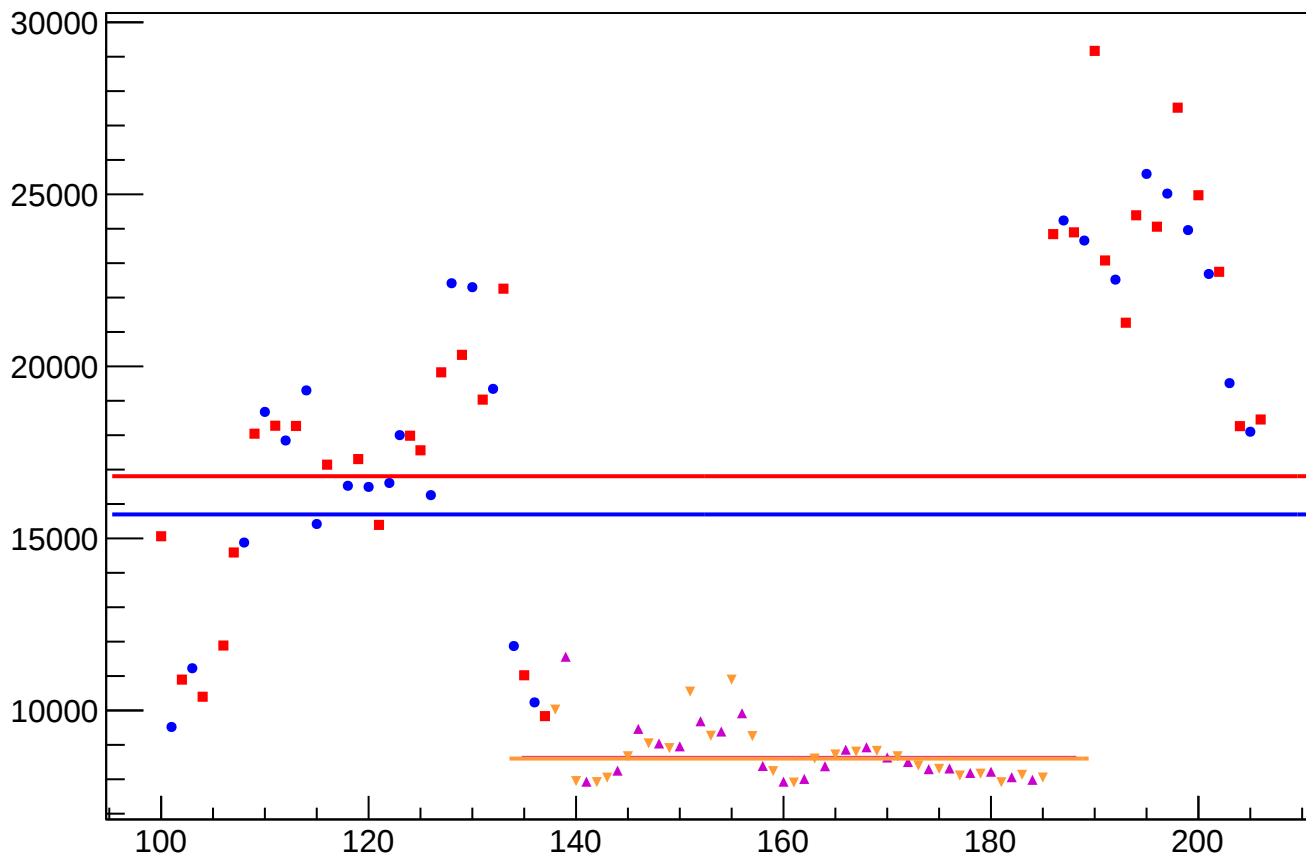
Right: 0.552 ± 3.233 $\chi^2/\text{NDF}: 60.6/56$

In: -1.624 ± 1.896 $\chi^2/\text{NDF}: 62.6/48$

Out: -6.226 ± 1.842 $\chi^2/\text{NDF}: 97.7/55$

All: -3.991 ± 1.321 $\chi^2/\text{NDF}: 163.3/104$

diff_bpm1X_rms vs Slug, Sign Corrected



Right In: 15697.257+/-3.259 χ^2/NDF : 2628593.5/25

Left Out: 8601.926+/-1.425 χ^2/NDF : 248903.5/24

Right Out: 16807.548+/-3.209 χ^2/NDF : 2662542.5/30

Left In: 8621.975+/-1.471 χ^2/NDF : 230824.4/22

Left: 8611.634+/-1.023 χ^2/NDF : 479823.8/47

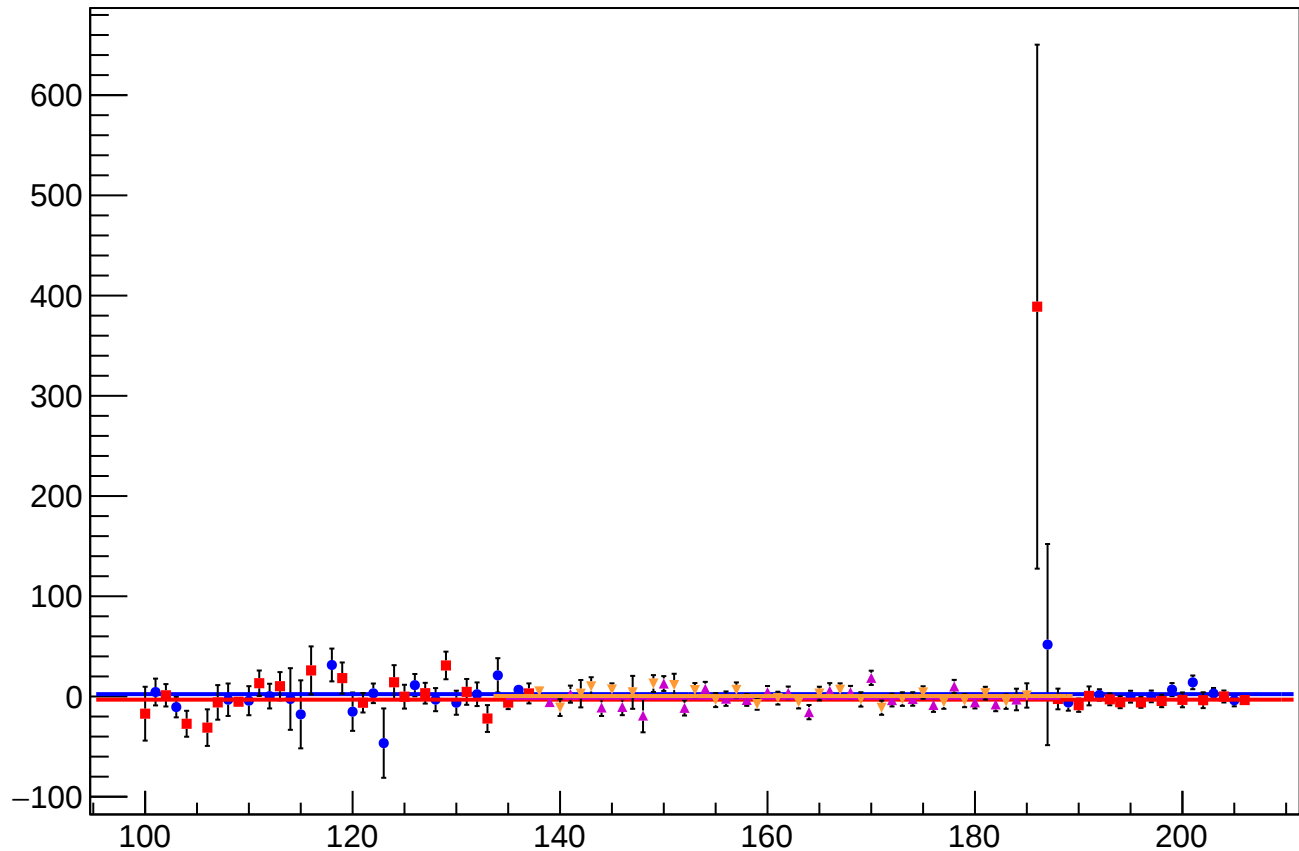
Right: 16260.972+/-2.286 χ^2/NDF : 5350080.5/56

In: 9819.291+/-1.340 χ^2/NDF : 6776088.0/48

Out: 9953.716+/-1.302 χ^2/NDF : 8374060.1/55

All: 9888.443+/-0.934 χ^2/NDF : 15155321.4/103

diff_bpm1Y_mean vs Slug, Sign Corrected



Right In: 2.347 ± 1.714 $\chi^2/\text{NDF}: 17.9/25$

Left Out: 0.481 ± 1.419 $\chi^2/\text{NDF}: 19.6/24$

Right Out: -3.152 ± 1.523 $\chi^2/\text{NDF}: 27.0/30$

Left In: -1.298 ± 1.406 $\chi^2/\text{NDF}: 33.0/22$

Left: -0.417 ± 0.999 $\chi^2/\text{NDF}: 53.4/47$

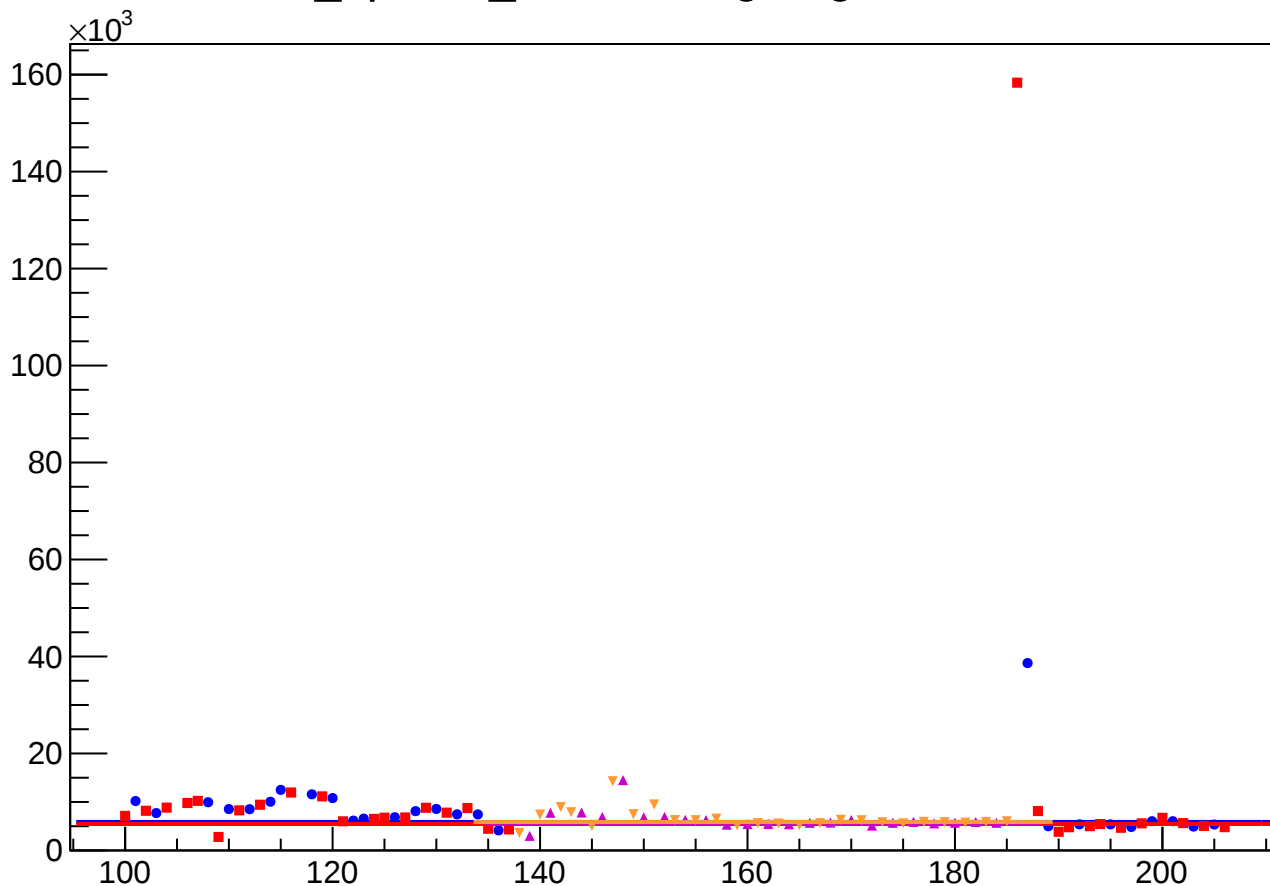
Right: -0.724 ± 1.139 $\chi^2/\text{NDF}: 50.7/56$

In: 0.169 ± 1.087 $\chi^2/\text{NDF}: 53.7/48$

Out: -1.207 ± 1.038 $\chi^2/\text{NDF}: 49.6/55$

All: -0.551 ± 0.751 $\chi^2/\text{NDF}: 104.1/104$

diff_bpm1Y_rms vs Slug, Sign Corrected



Right In: 5883.500 $\pm$ 1.212 χ^2 /NDF: 1987125.5/25

Left Out: 5858.642 $\pm$ 1.004 χ^2 /NDF: 1691344.1/24

Right Out: 5457.647 $\pm$ 1.077 χ^2 /NDF: 3433122.2/30

Left In: 5596.879 $\pm$ 0.994 χ^2 /NDF: 2089750.1/22

Left: 5726.555 $\pm$ 0.706 χ^2 /NDF: 3815425.5/47

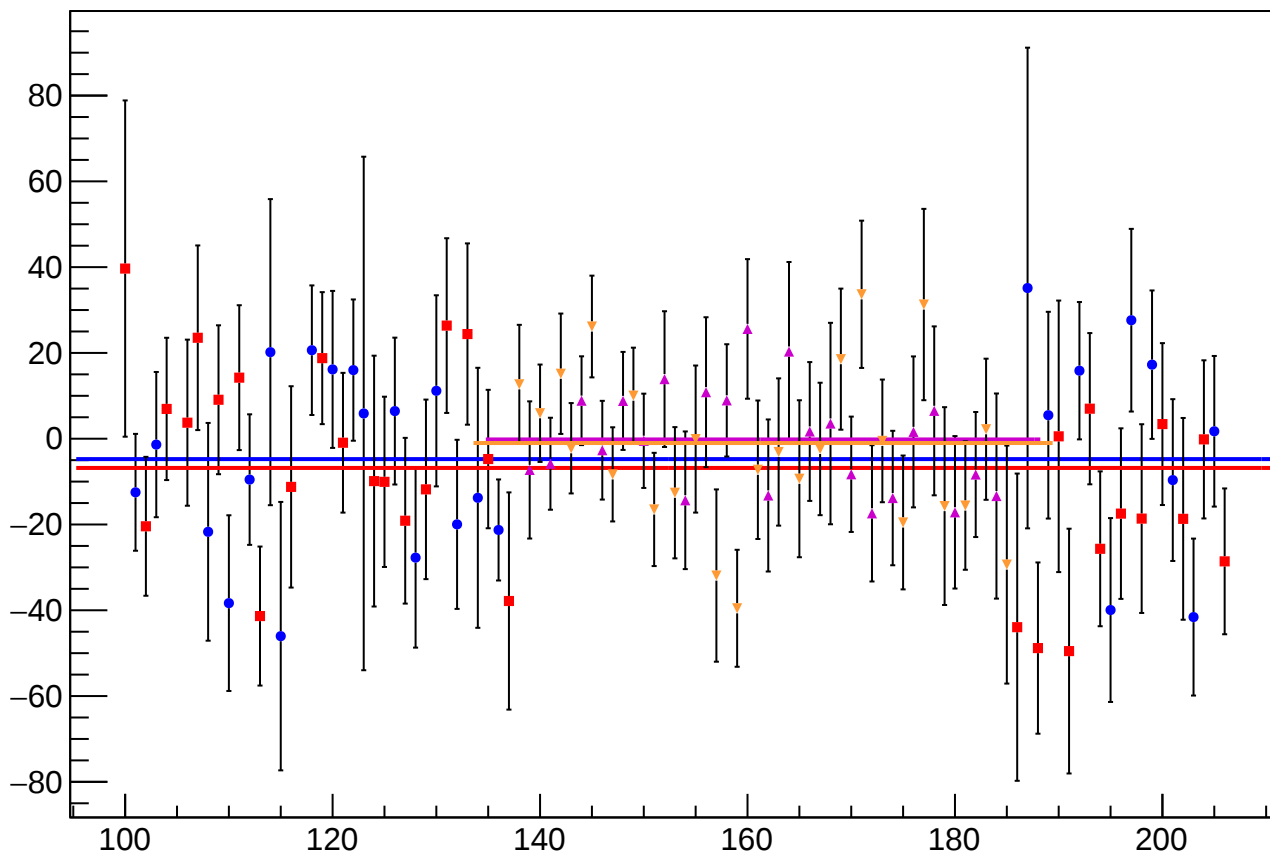
Right: 5645.623 $\pm$ 0.805 χ^2 /NDF: 5489242.5/56

In: 5712.221 $\pm$ 0.769 χ^2 /NDF: 4110311.8/48

Out: 5672.310 $\pm$ 0.734 χ^2 /NDF: 5198657.0/55

All: 5691.352 $\pm$ 0.531 χ^2 /NDF: 9310378.5/100

diff_bpm11X_mean vs Slug, Sign Corrected



Right In: -4.754 ± 3.739 $\chi^2/\text{NDF}: 29.6/25$

Left Out: -1.007 ± 2.942 $\chi^2/\text{NDF}: 33.5/24$

Right Out: -6.817 ± 3.547 $\chi^2/\text{NDF}: 34.2/30$

Left In: -0.172 ± 3.067 $\chi^2/\text{NDF}: 12.4/22$

Left: -0.607 ± 2.123 $\chi^2/\text{NDF}: 45.9/47$

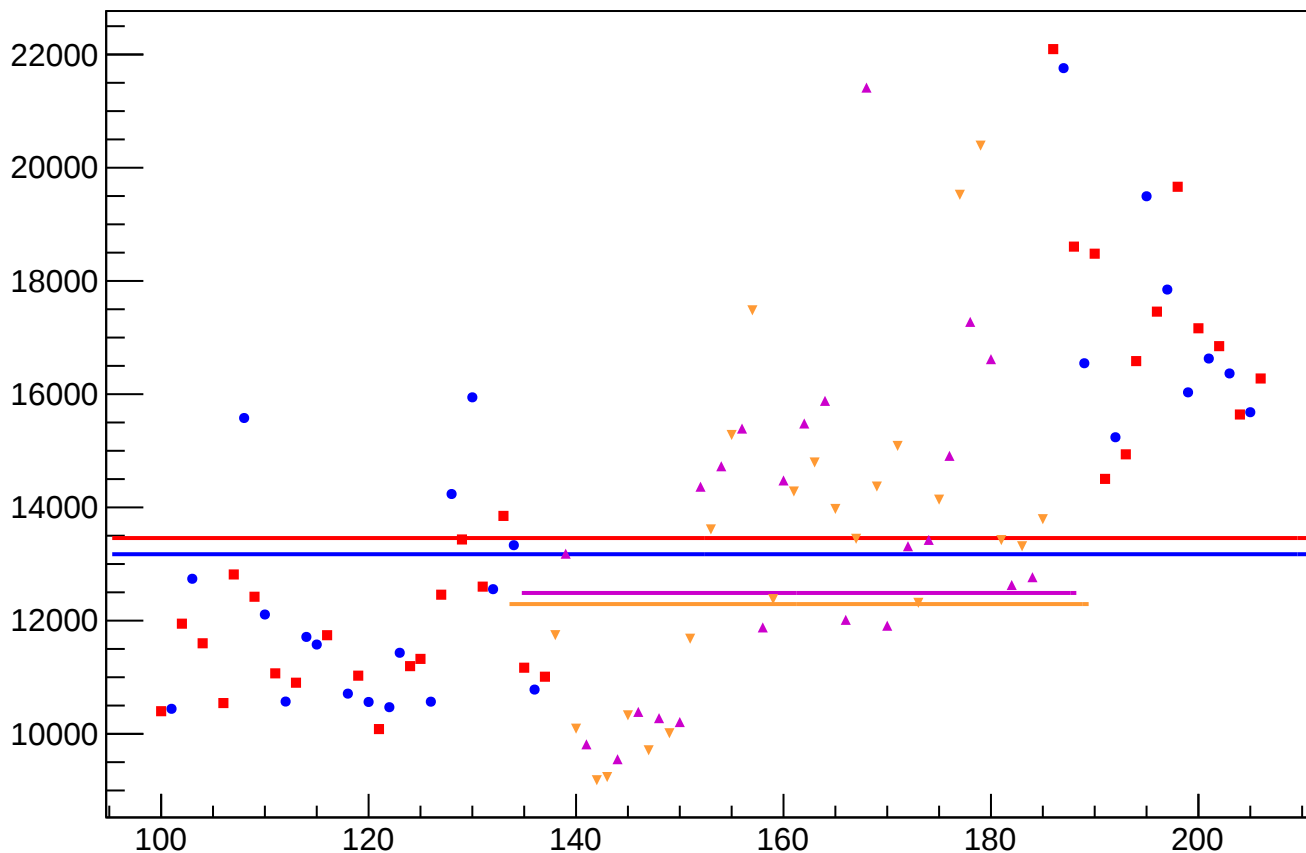
Right: -5.840 ± 2.573 $\chi^2/\text{NDF}: 64.0/56$

In: -2.016 ± 2.371 $\chi^2/\text{NDF}: 42.9/48$

Out: -3.375 ± 2.264 $\chi^2/\text{NDF}: 69.3/55$

All: -2.727 ± 1.638 $\chi^2/\text{NDF}: 112.3/104$

diff_bpm11X_rms vs Slug, Sign Corrected



Right In: 13173.170+/-2.644

χ^2/NDF : 1101572.0/25

Left: 12386.599+/-1.501 χ^2/NDF : 2861298.1/47

Right: 13323.490+/-1.819 χ^2/NDF : 2374579.3/56

Left Out: 12292.583+/-2.080

χ^2/NDF : 1502548.3/24

In: 12764.138+/-1.677 χ^2/NDF : 2496111.0/48

Right Out: 13458.770+/-2.508

χ^2/NDF : 1266864.3/30

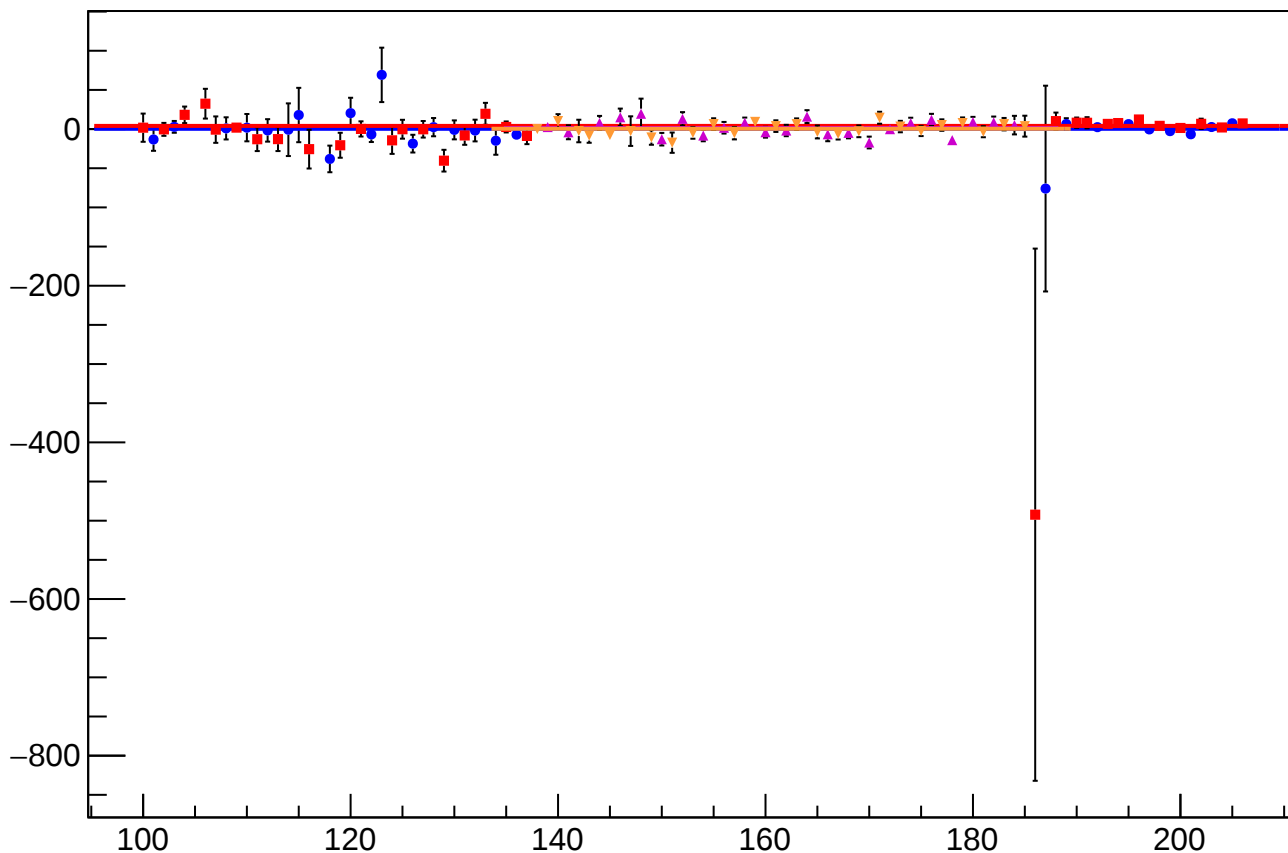
Out: 12767.853+/-1.601 χ^2/NDF : 2897522.8/55

Left In: 12488.821+/-2.169

χ^2/NDF : 1354485.4/22

All: 12766.081+/-1.158 χ^2/NDF : 5393636.3/131

diff_bpm11Y_mean vs Slug, Sign Corrected



Right In: 0.354 ± 1.471 $\chi^2/\text{NDF}: 26.0/25$

Left Out: 0.410 ± 1.435 $\chi^2/\text{NDF}: 19.3/24$

Right Out: 4.047 ± 1.346 $\chi^2/\text{NDF}: 34.3/30$

Left In: 1.278 ± 1.386 $\chi^2/\text{NDF}: 34.0/22$

Left: 0.859 ± 0.997 $\chi^2/\text{NDF}: 53.5/47$

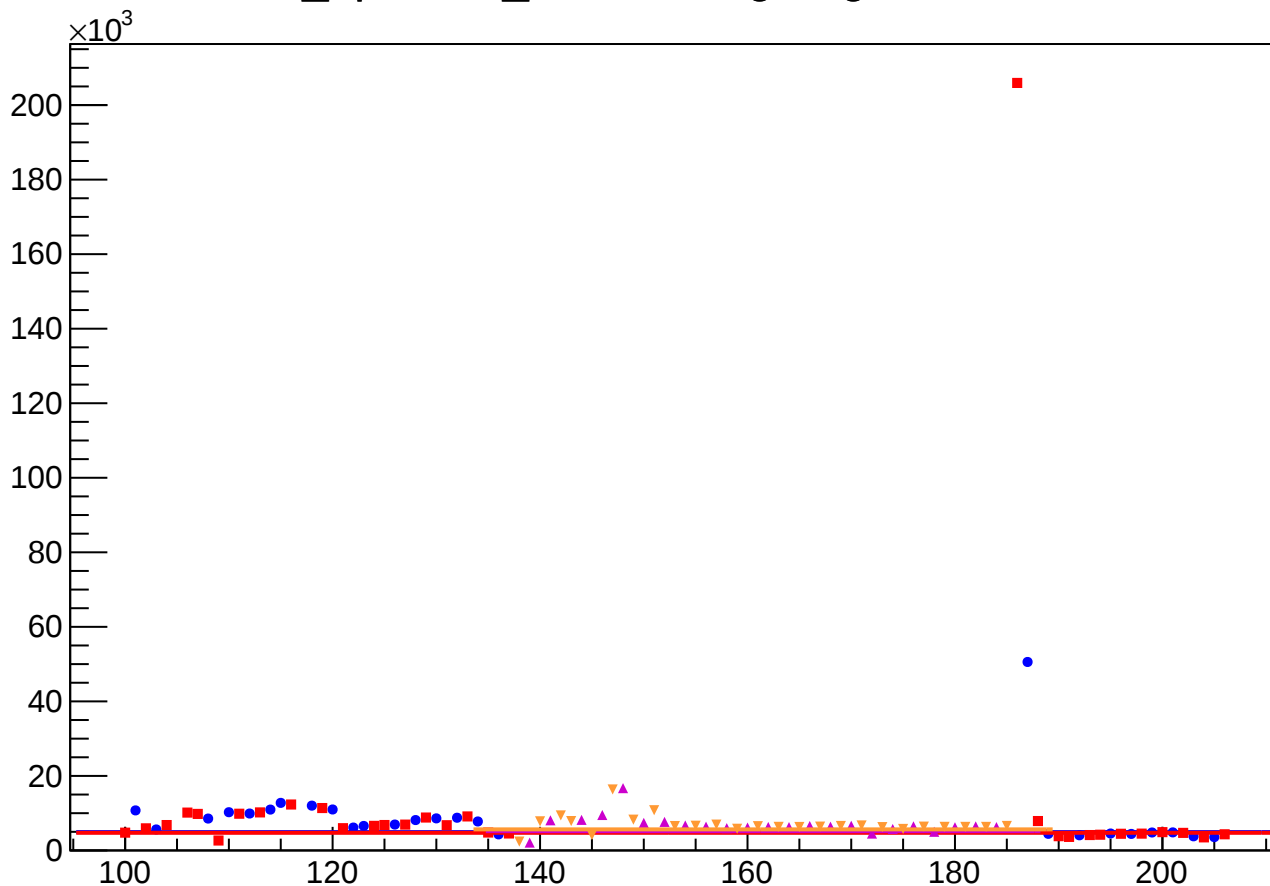
Right: 2.364 ± 0.993 $\chi^2/\text{NDF}: 63.7/56$

In: 0.844 ± 1.009 $\chi^2/\text{NDF}: 60.2/48$

Out: 2.345 ± 0.982 $\chi^2/\text{NDF}: 57.0/55$

All: 1.615 ± 0.703 $\chi^2/\text{NDF}: 118.3/104$

diff_bpm11Y_rms vs Slug, Sign Corrected



Right In: 4921.908 $\pm$ 1.040

χ^2/NDF : 3005778.7/25

Left: 5409.966 $\pm$ 0.705

χ^2/NDF : 9587556.1/47

Left Out: 5655.639 $\pm$ 1.014

χ^2/NDF : 4124124.3/24

Right: 4824.470 $\pm$ 0.702

χ^2/NDF : 6742717.3/56

Right Out: 4742.883 $\pm$ 0.952

χ^2/NDF : 3720811.6/30

In: 5059.028 $\pm$ 0.713

χ^2/NDF : 8388644.8/48

Out: 5170.167 $\pm$ 0.694

χ^2/NDF : 8275553.8/55

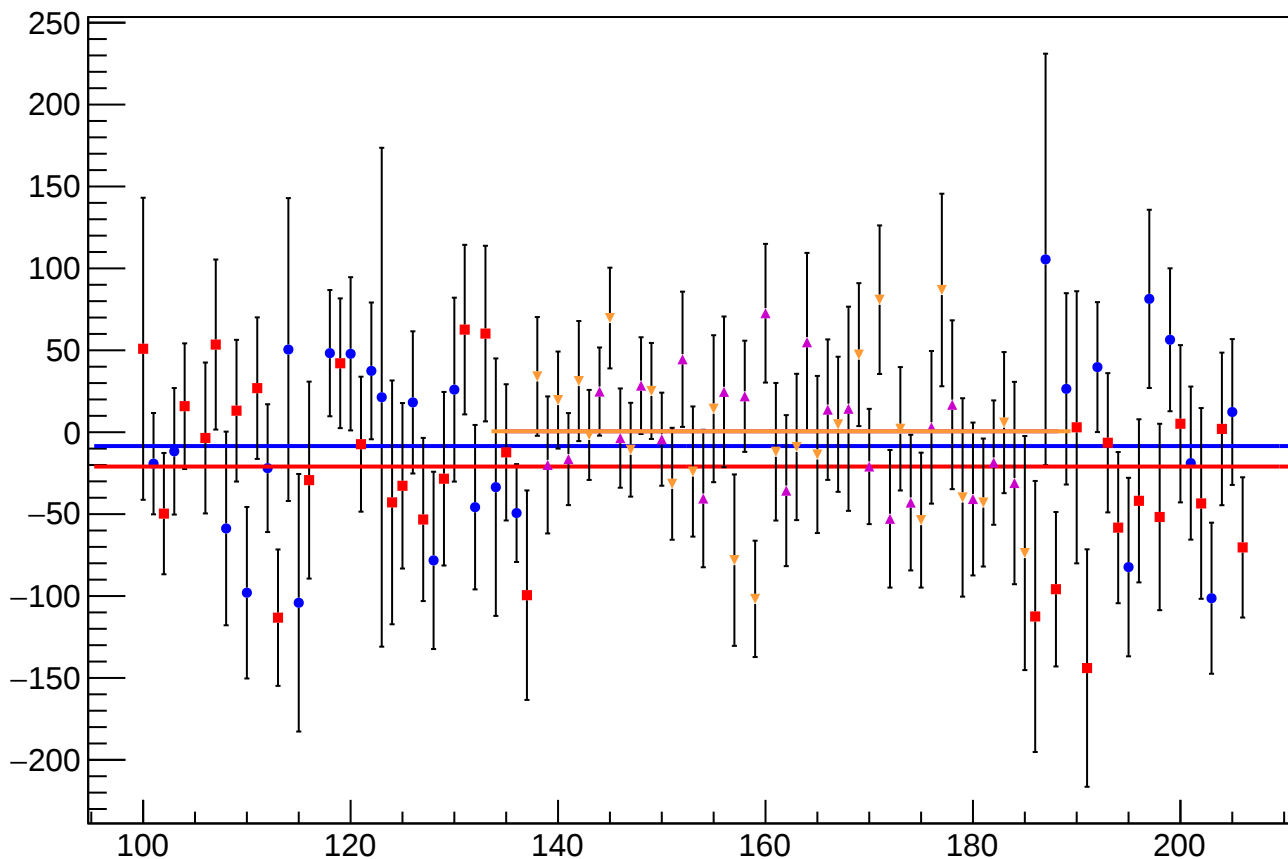
Left In: 5180.743 $\pm$ 0.980

χ^2/NDF : 5350053.6/22

All: 5116.108 $\pm$ 0.497

χ^2/NDF : 16676670.8/100

diff_bpm12X_mean vs Slug, Sign Corrected



Right In: -8.454 $\pm$ 9.307 χ^2 /NDF: 29.4/25

Left Out: 0.580 $\pm$ 7.691 χ^2 /NDF:31.0/24

Right Out: -20.954 $\pm$ 8.839 χ^2 /NDF: 30.8/30

Left In: 0.565 $\pm$ 8.015 χ^2 /NDF:14.3/22

Left: 0.572 $\pm$ 5.549 χ^2 /NDF: 45.3/47

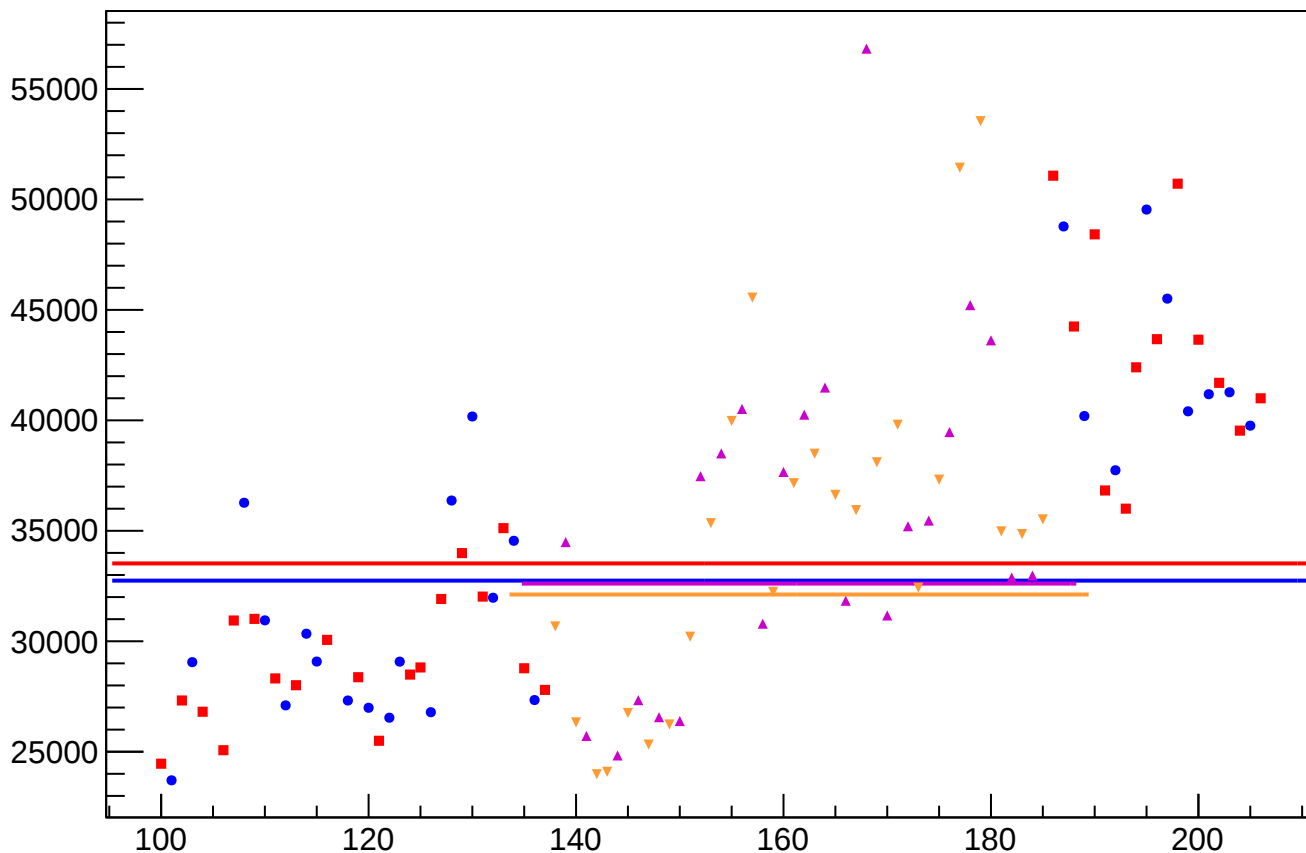
Right: -15.026 $\pm$ 6.409 χ^2 /NDF: 61.1/56

In: -3.276 $\pm$ 6.073 χ^2 /NDF:44.2/48

Out: -8.699 $\pm$ 5.802 χ^2 /NDF:65.1/55

All: -6.111 $\pm$ 4.195 χ^2 /NDF: 109.7/104

diff_bpm12X_rms vs Slug, Sign Corrected



Right In: 32744.643 $\pm$ 6.581 χ^2/NDF : 1152332.7/25

Left Out: 32117.184 $\pm$ 5.438 χ^2/NDF : 1536740.0/24

Right Out: 33523.558 $\pm$ 6.250 χ^2/NDF : 1302018.7/30

Left In: 32610.108 $\pm$ 5.667 χ^2/NDF : 1398475.8/22

Left: 32353.483 $\pm$ 3.924 χ^2/NDF : 2939154.5/47

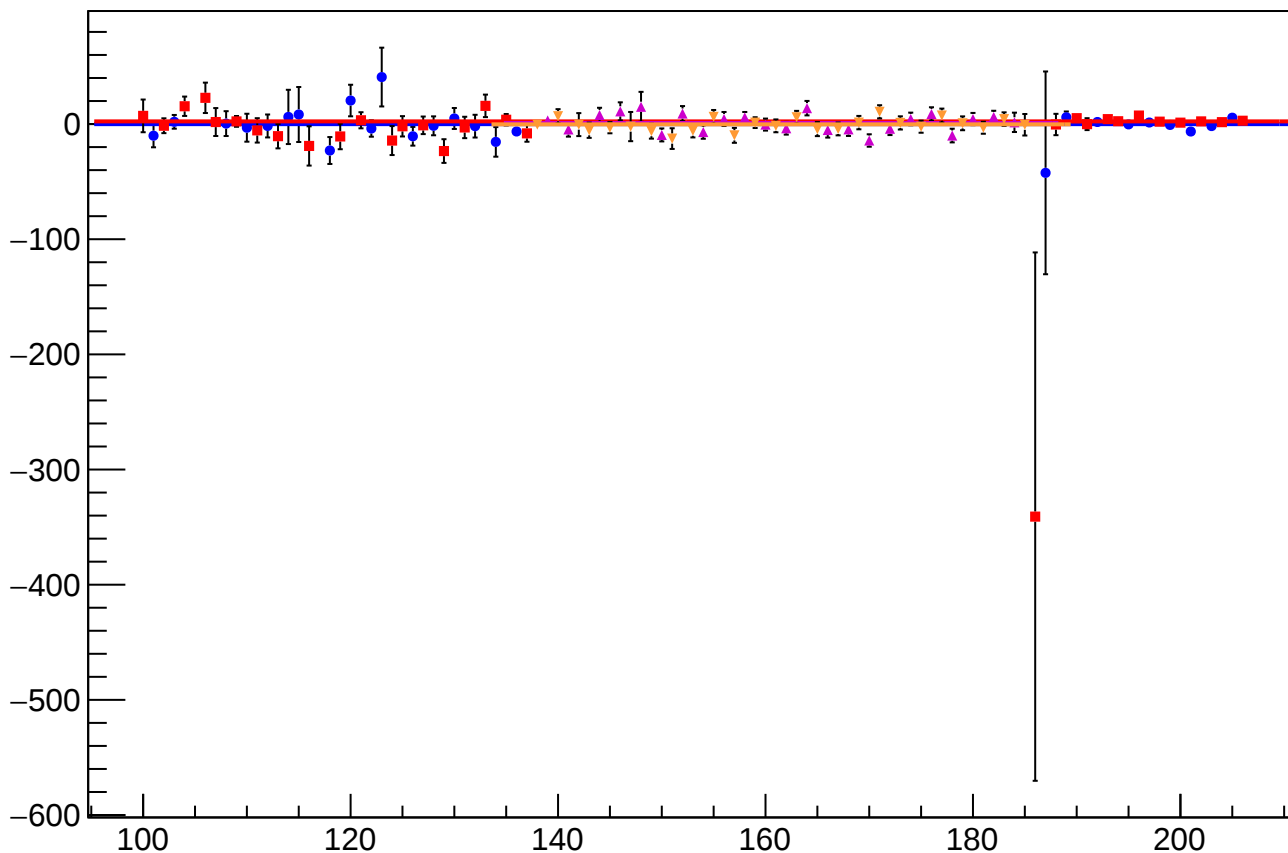
Right: 33154.174 $\pm$ 4.532 χ^2/NDF : 2461717.2/56

In: 32667.395 $\pm$ 4.294 χ^2/NDF : 2551048.4/48

Out: 32723.152 $\pm$ 4.102 χ^2/NDF : 2867576.7/55

All: 32696.546 $\pm$ 2.966 χ^2/NDF : 5418713.3/100

diff_bpm12Y_mean vs Slug, Sign Corrected



Right In: -0.078 ± 0.948 χ^2/NDF : 29.9/25

Left Out: -0.255 ± 1.173 χ^2/NDF : 18.0/24

Right Out: 2.324 ± 0.886 χ^2/NDF : 29.2/30

Left In: 0.925 ± 1.154 χ^2/NDF : 36.1/22

Left: 0.345 ± 0.822 χ^2/NDF : 54.7/47

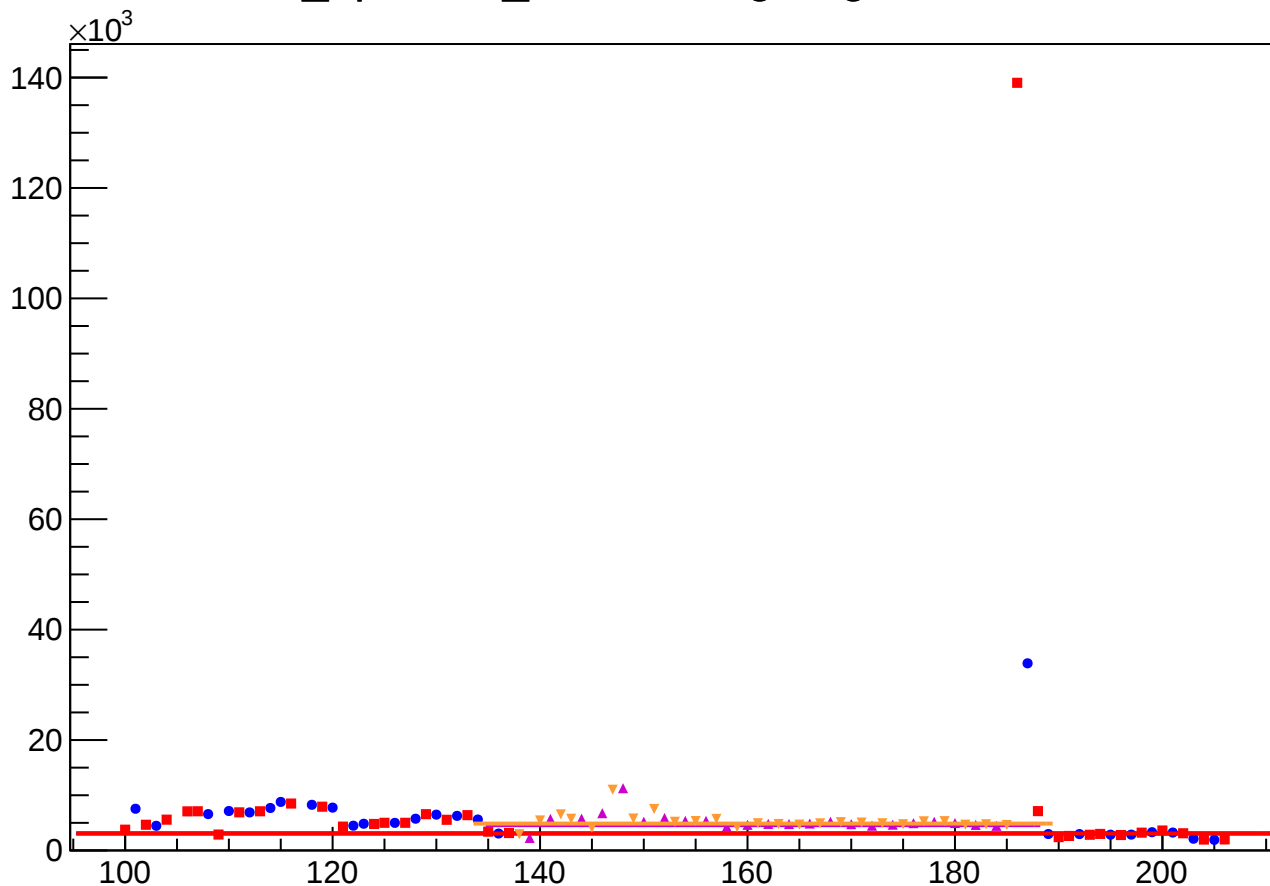
Right: 1.204 ± 0.648 χ^2/NDF : 62.5/56

In: 0.326 ± 0.733 χ^2/NDF : 66.4/48

Out: 1.386 ± 0.707 χ^2/NDF : 50.3/55

All: 0.875 ± 0.509 χ^2/NDF : 117.8/104

diff_bpm12Y_rms vs Slug, Sign Corrected



Right In: 3089.834 $\pm$ 0.671 χ^2/NDF : 4200006.1/25

Left Out: 4866.528 $\pm$ 0.829 χ^2/NDF : 1511486.2/24

Right Out: 3069.689 $\pm$ 0.627 χ^2/NDF : 4971401.6/30

Left In: 4582.193 $\pm$ 0.816 χ^2/NDF : 2478681.0/22

Left: 4722.017 $\pm$ 0.582 χ^2/NDF : 4049906.1/47

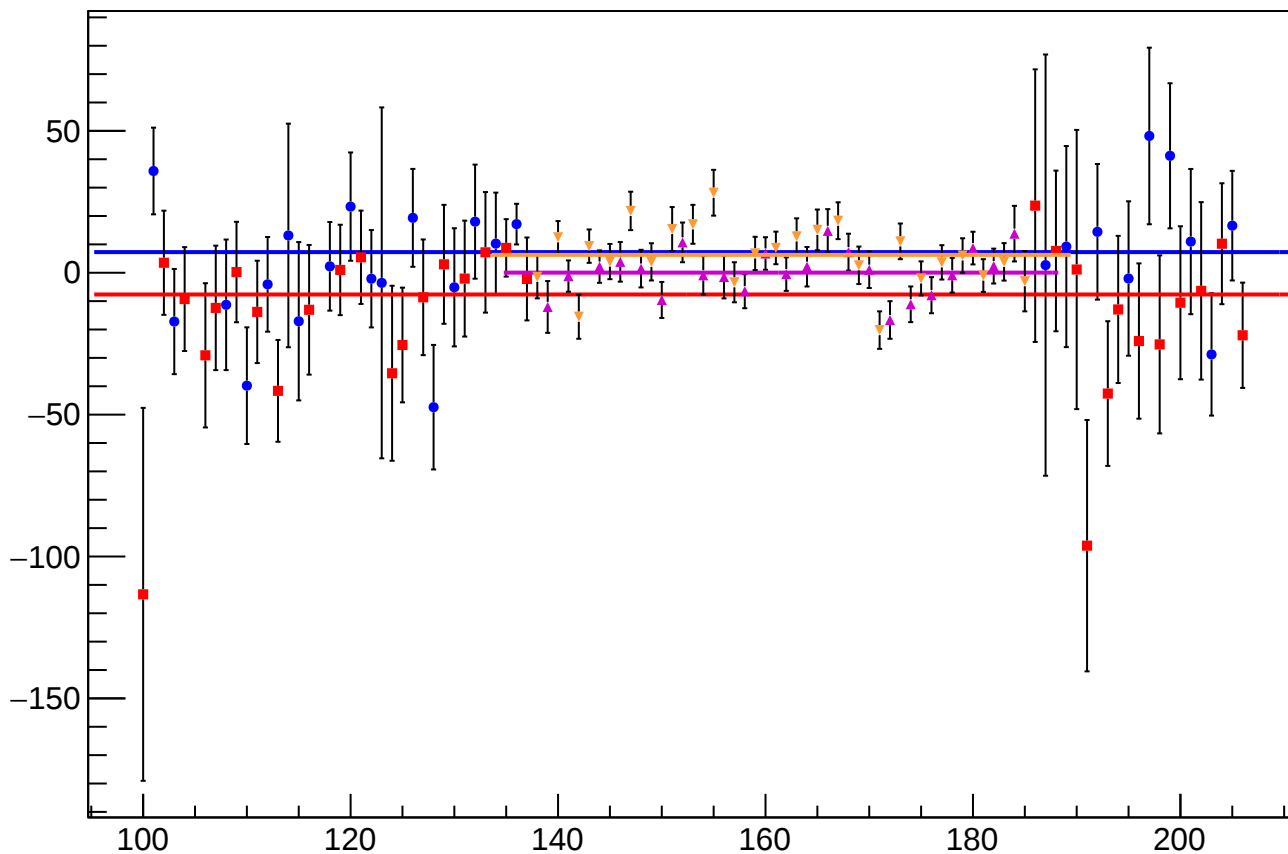
Right: 3079.080 $\pm$ 0.458 χ^2/NDF : 9171889.3/56

In: 3691.713 $\pm$ 0.518 χ^2/NDF : 8675523.5/48

Out: 3722.864 $\pm$ 0.500 χ^2/NDF : 9470570.8/55

All: 3707.840 $\pm$ 0.360 χ^2/NDF : 18147966.1/100

diff_bpm16X_mean vs Slug, Sign Corrected



Right In: 7.276 $\pm$ 3.693 χ^2 /NDF: 29.5/25

Left Out: 6.302 $\pm$ 1.313 χ^2 /NDF:56.7/24

Right Out: -7.658 $\pm$ 3.741 χ^2 /NDF: 22.4/30

Left In: 0.044 $\pm$ 1.358 χ^2 /NDF:30.0/22

Left: 3.279 $\pm$ 0.944 χ^2 /NDF: 97.7/47

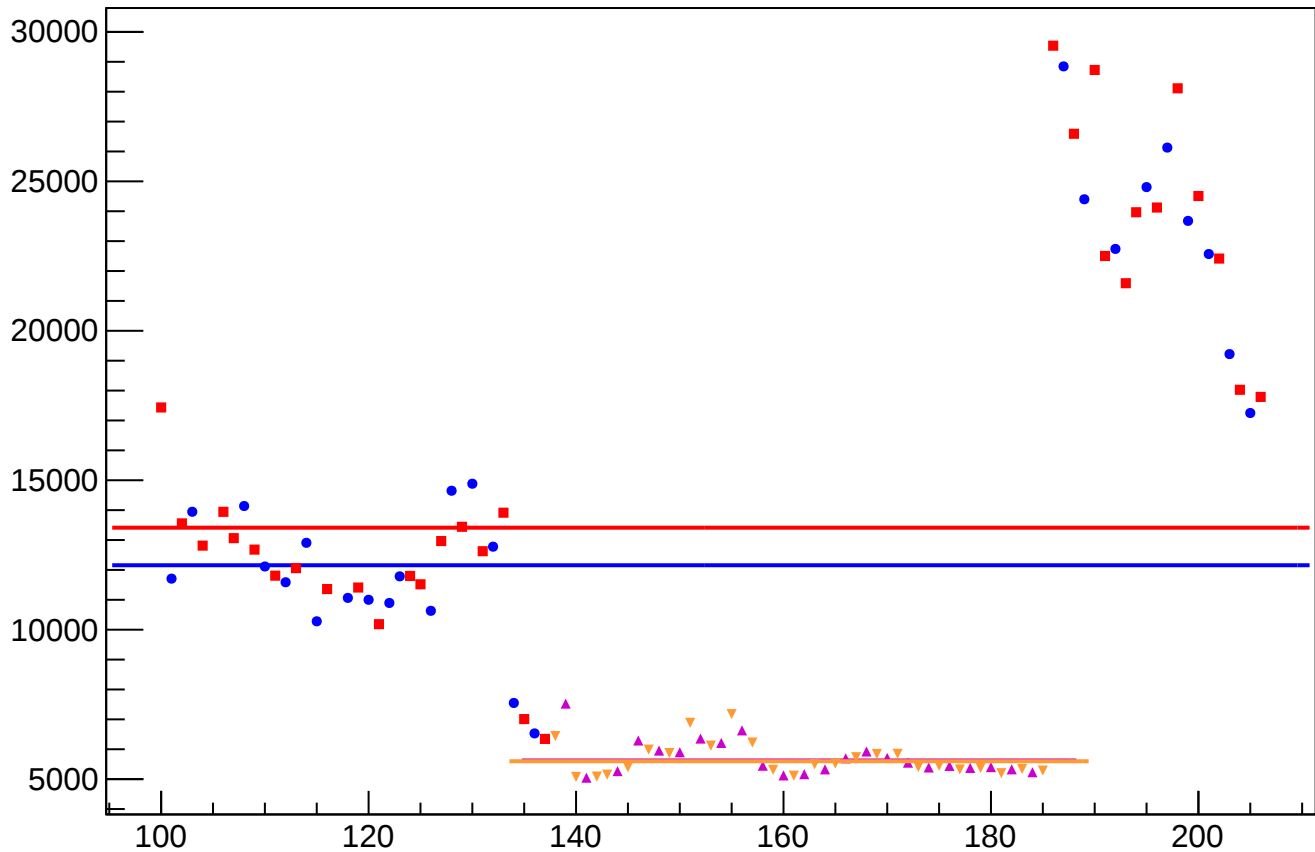
Right: -0.096 $\pm$ 2.628 χ^2 /NDF: 60.1/56

In: 0.905 $\pm$ 1.274 χ^2 /NDF:62.9/48

Out: 4.772 $\pm$ 1.239 χ^2 /NDF:91.5/55

All: 2.894 $\pm$ 0.888 χ^2 /NDF: 159.2/104

diff_bpm16X_rms vs Slug, Sign Corrected



Right In: 12156.291 $\pm$ 2.612 χ^2 /NDF: 4178429.6/25

Left Out: 5598.786 $\pm$ 0.928 χ^2 /NDF: 283253.4/24

Right Out: 13413.392 $\pm$ 2.645 χ^2 /NDF: 4392309.4/30

Left In: 5625.163 $\pm$ 0.960 χ^2 /NDF: 272563.5/22

Left: 5611.528 $\pm$ 0.667 χ^2 /NDF: 556207.1/47

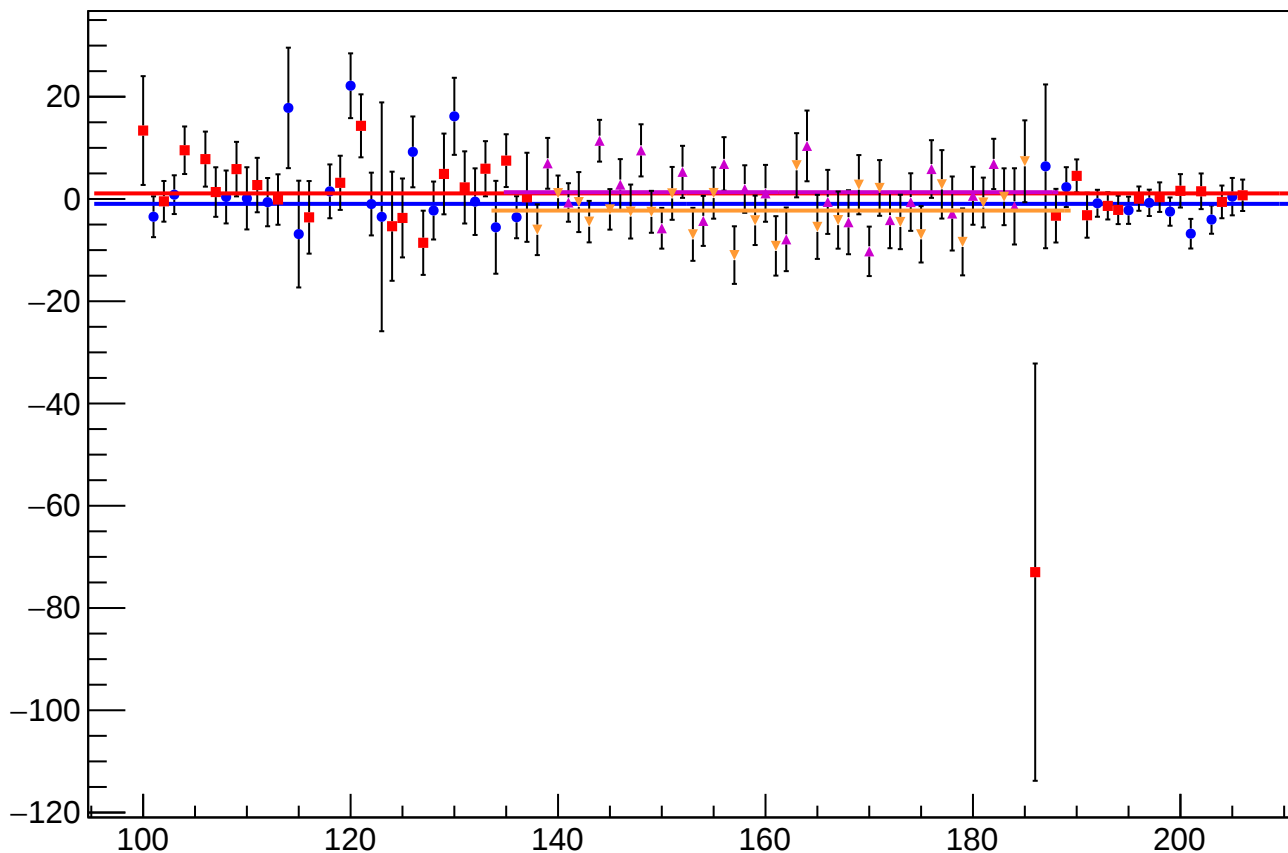
Right: 12776.820 $\pm$ 1.858 χ^2 /NDF: 8685105.4/56

In: 6402.671 $\pm$ 0.901 χ^2 /NDF: 9960280.9/48

Out: 6455.371 $\pm$ 0.876 χ^2 /NDF: 12446500.7/55

All: 6429.772 $\pm$ 0.628 χ^2 /NDF: 22408540.5/103

diff_bpm16Y_mean vs Slug, Sign Corrected



Right In: -0.953 ± 0.824 χ^2/NDF : 32.0/25

Left Out: -2.262 ± 1.030 χ^2/NDF : 15.5/24

Right Out: 1.092 ± 0.769 χ^2/NDF : 27.0/30

Left In: 1.328 ± 1.082 χ^2/NDF : 30.6/22

Left: -0.555 ± 0.746 χ^2/NDF : 51.9/47

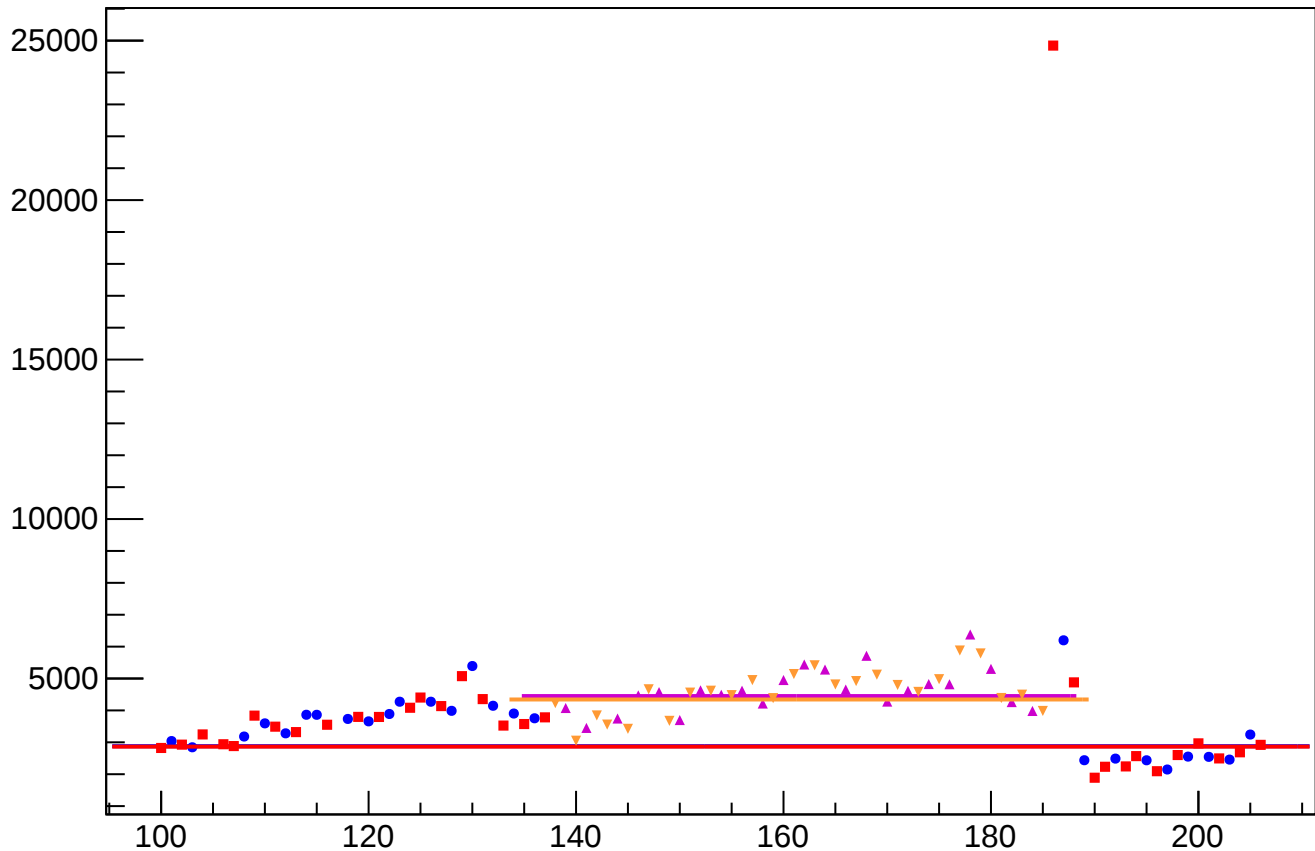
Right: 0.141 ± 0.562 χ^2/NDF : 62.3/56

In: -0.116 ± 0.656 χ^2/NDF : 65.5/48

Out: -0.107 ± 0.616 χ^2/NDF : 49.3/55

All: -0.111 ± 0.449 χ^2/NDF : 114.8/104

diff_bpm16Y_rms vs Slug, Sign Corrected



Right In: 2878.293 ± 0.583 $\chi^2/\text{NDF}: 1292422.1/25$

Left Out: 4342.635 ± 0.728 $\chi^2/\text{NDF}: 993035.5/24$

Right Out: 2864.548 ± 0.543 $\chi^2/\text{NDF}: 2264234.5/30$

Left In: 4450.007 ± 0.765 $\chi^2/\text{NDF}: 693229.8/22$

Left: 4393.686 ± 0.528 $\chi^2/\text{NDF}: 1696596.0/47$

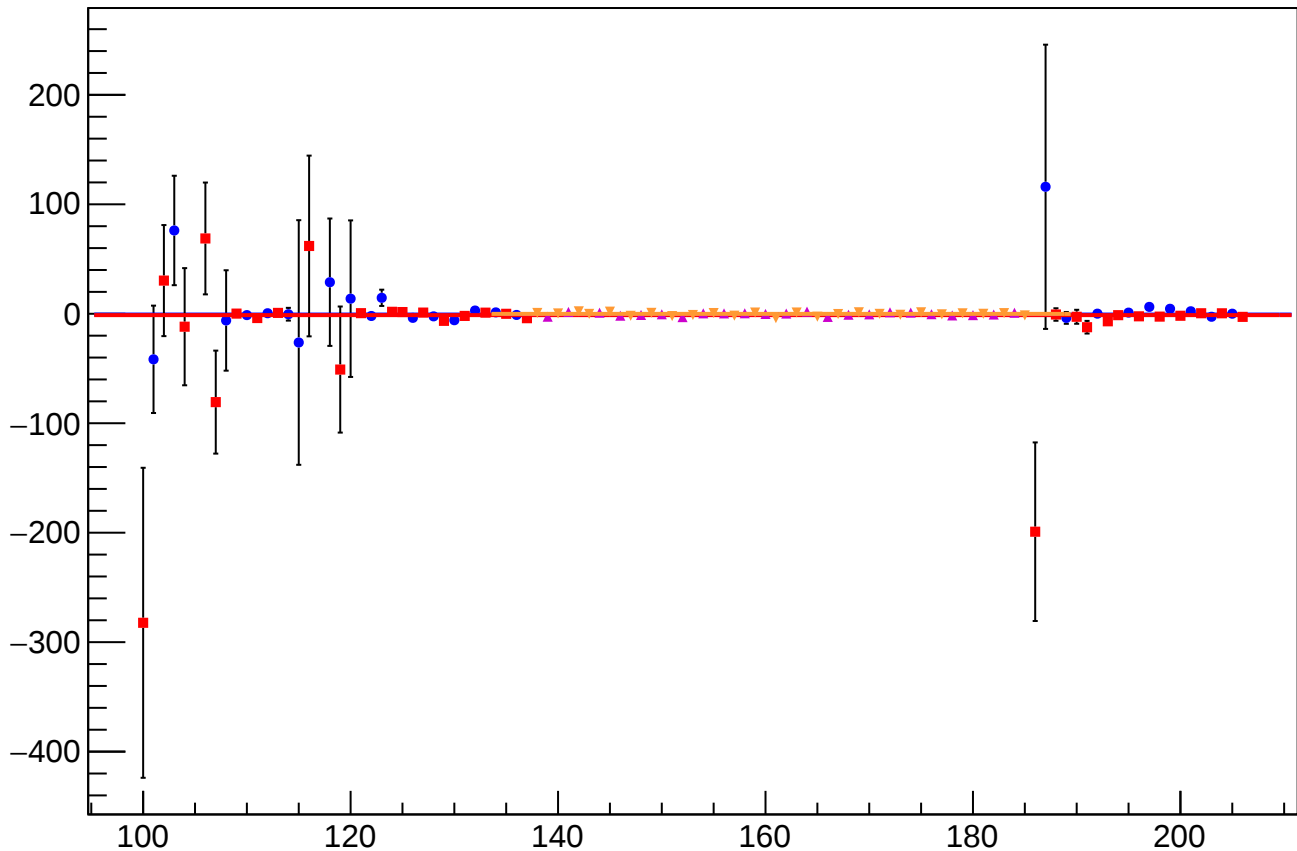
Right: 2870.940 ± 0.397 $\chi^2/\text{NDF}: 3556954.2/56$

In: 3455.467 ± 0.464 $\chi^2/\text{NDF}: 4655978.5/48$

Out: 3393.070 ± 0.436 $\chi^2/\text{NDF}: 5902471.6/55$

All: 3422.323 ± 0.317 $\chi^2/\text{NDF}: 10568070.5/100$

diff_bpm1p02bX_mean vs Slug, Sign Corrected



Right In: -0.716 ± 0.629 χ^2/NDF : 26.0/25

Left Out: -0.092 ± 0.249 χ^2/NDF : 34.4/24

Right Out: -1.236 ± 0.590 χ^2/NDF : 35.5/30

Left In: -0.259 ± 0.257 χ^2/NDF : 27.2/22

Left: -0.173 ± 0.179 χ^2/NDF : 61.9/47

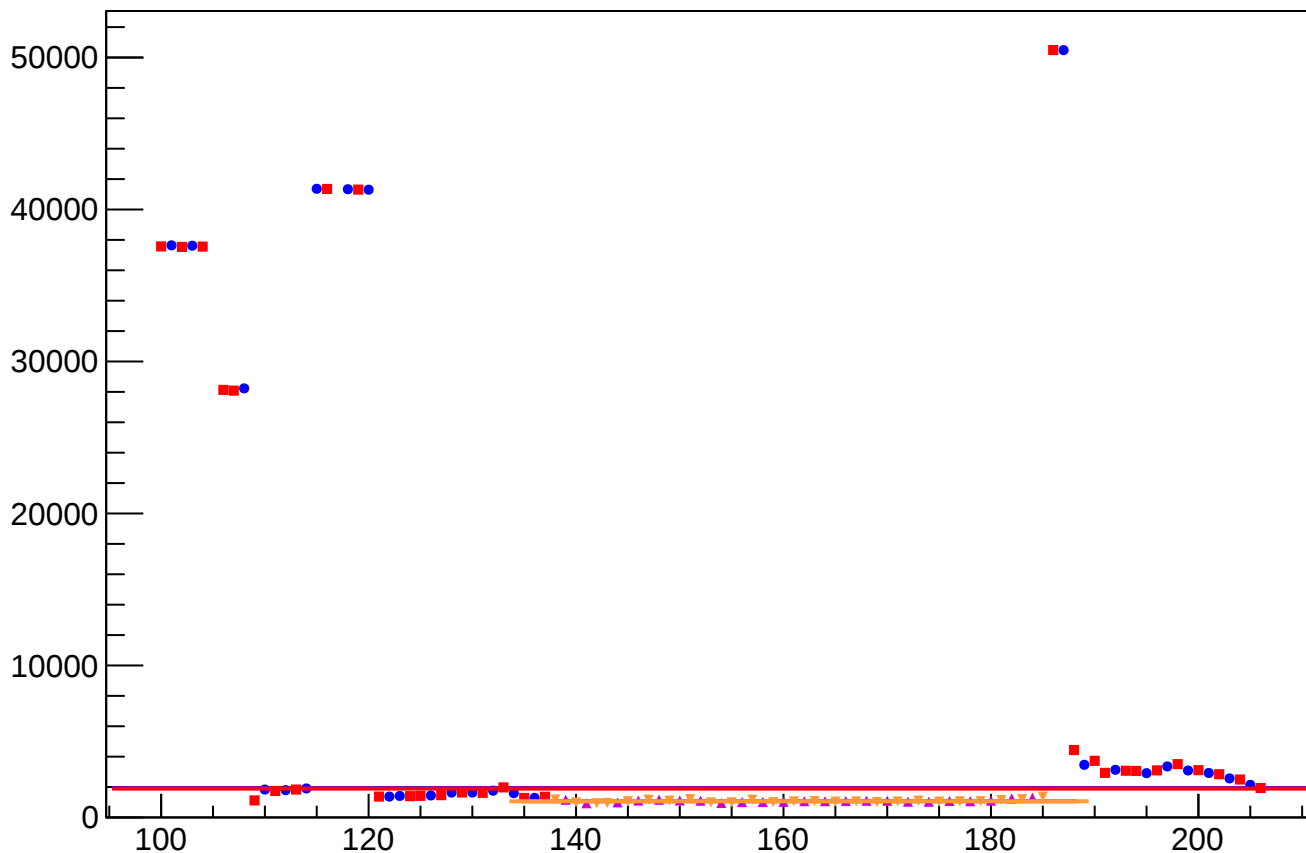
Right: -0.992 ± 0.430 χ^2/NDF : 61.8/56

In: -0.325 ± 0.238 χ^2/NDF : 53.6/48

Out: -0.265 ± 0.229 χ^2/NDF : 73.1/55

All: -0.294 ± 0.165 χ^2/NDF : 126.8/104

diff_bpm1p02bX_rms vs Slug, Sign Corrected



Right In: 1930.626+/-0.444

χ^2/NDF : 6919800.7/25

Left Out: 1064.701+/-0.176

χ^2/NDF : 186511.5/24

Right Out: 1901.895+/-0.417

χ^2/NDF : 8340255.7/30

Left In: 1066.255+/-0.182

χ^2/NDF : 164232.1/22

Left: 1065.454+/-0.126 χ^2/NDF : 350781.3/47

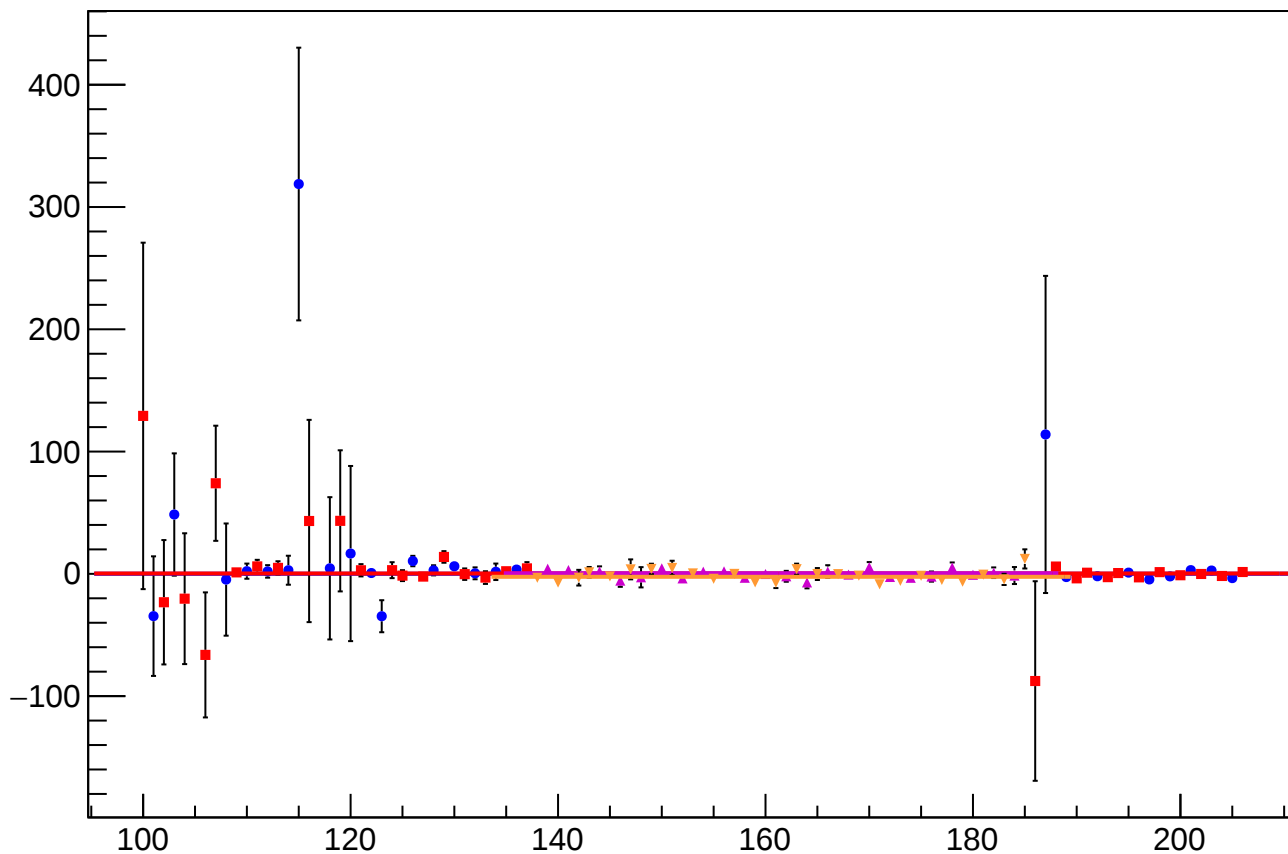
Right: 1915.348+/-0.304 χ^2/NDF : 15262278.3/56

In: 1190.018+/-0.168 χ^2/NDF : 10324250.7/48

Out: 1191.366+/-0.162 χ^2/NDF : 11946244.0/55

All: 1190.716+/-0.117 χ^2/NDF : 22270527.9/100

diff_bpm1p02bY_mean vs Slug, Sign Corrected



Right In: 0.075 ± 0.640 $\chi^2/\text{NDF}: 44.7/25$

Left Out: -2.422 ± 0.811 $\chi^2/\text{NDF}: 21.2/24$

Right Out: 0.297 ± 0.594 $\chi^2/\text{NDF}: 30.3/30$

Left In: 0.468 ± 0.843 $\chi^2/\text{NDF}: 15.5/22$

Left: -1.033 ± 0.584 $\chi^2/\text{NDF}: 42.8/47$

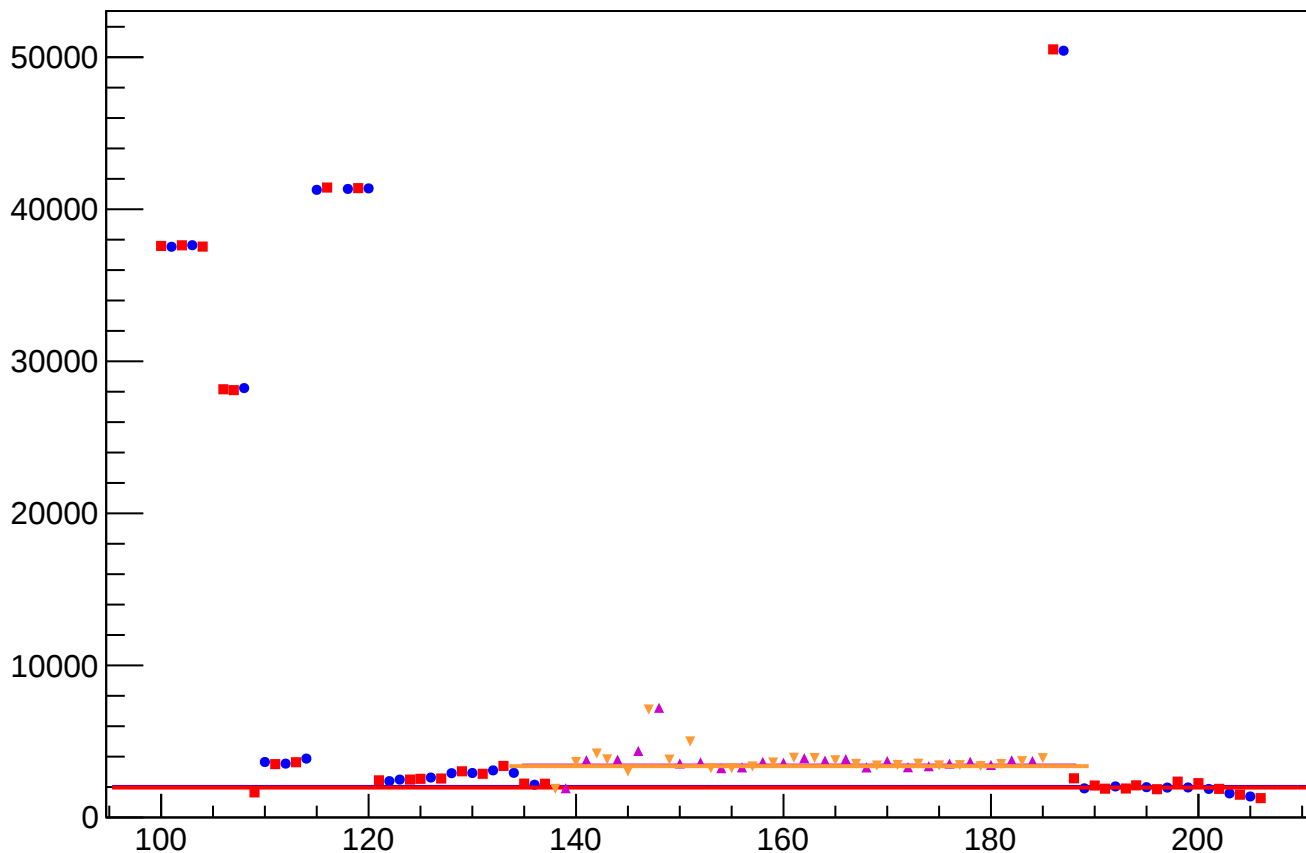
Right: 0.194 ± 0.436 $\chi^2/\text{NDF}: 75.1/56$

In: 0.219 ± 0.510 $\chi^2/\text{NDF}: 60.4/48$

Out: -0.654 ± 0.479 $\chi^2/\text{NDF}: 58.8/55$

All: -0.244 ± 0.349 $\chi^2/\text{NDF}: 120.7/104$

diff_bpm1p02bY_rms vs Slug, Sign Corrected



Right In: 2006.543+/-0.453 χ^2/NDF : 5998277.3/25

Left Out: 3372.958+/-0.573 χ^2/NDF :1656864.7/24

Right Out: 1966.615+/-0.420 χ^2/NDF : 6906874.9/30

Left In: 3411.924+/-0.596 χ^2/NDF :1434523.7/22

Left: 3391.680+/-0.413 χ^2/NDF : 3093609.1/47

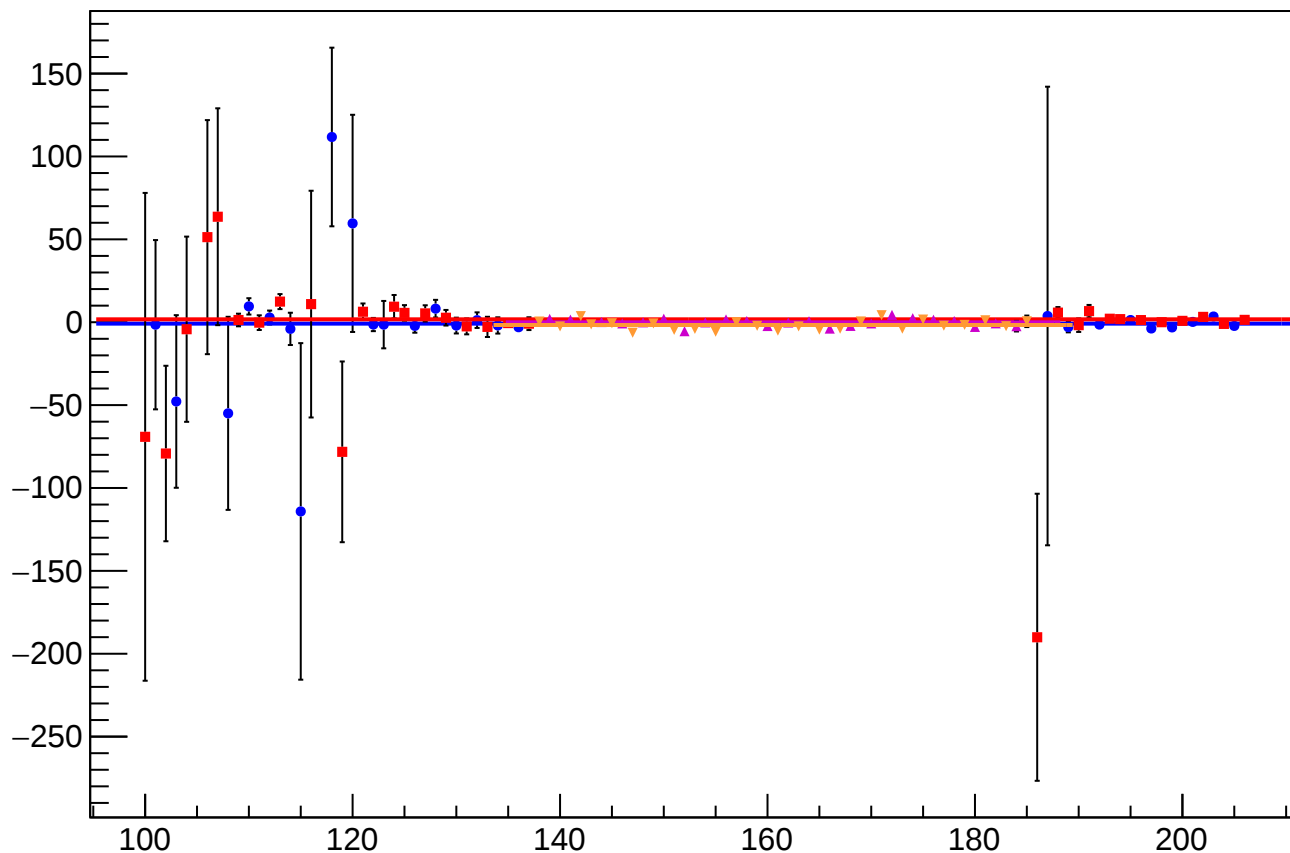
Right: 1985.104+/-0.308 χ^2/NDF : 12909329.9/56

In: 2520.670+/-0.360 χ^2/NDF :10959122.2/48

Out: 2458.520+/-0.339 χ^2/NDF :12478662.2/55

All: 2487.686+/-0.247 χ^2/NDF : 23453560.0/100

diff_bpm1p03aX_mean vs Slug, Sign Corrected



Right In: -0.848 ± 0.683 χ^2/NDF : 25.9/25

Left Out: -1.672 ± 0.388 χ^2/NDF : 45.7/24

Right Out: 1.748 ± 0.650 χ^2/NDF : 28.8/30

Left In: -0.072 ± 0.401 χ^2/NDF : 28.2/22

Left: -0.898 ± 0.279 χ^2/NDF : 82.1/47

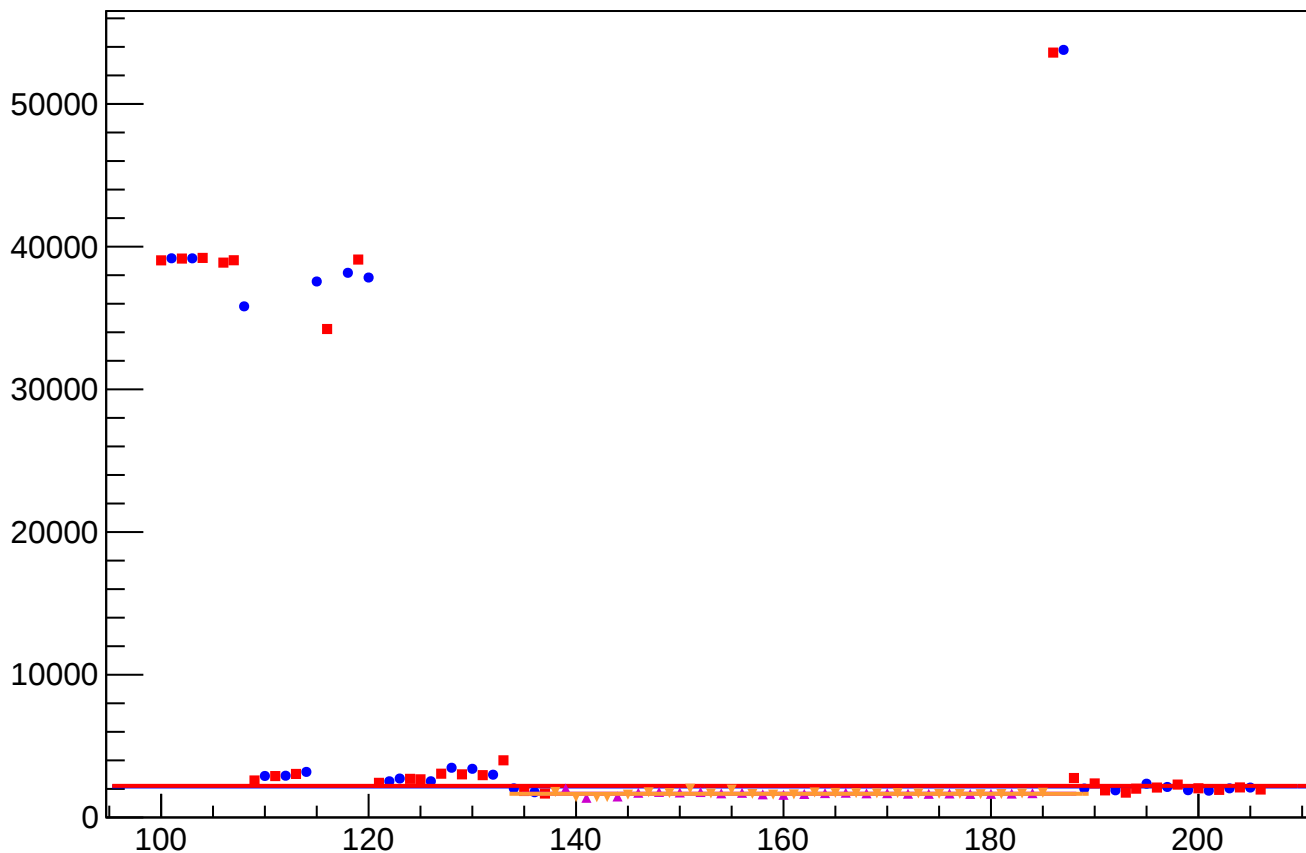
Right: 0.514 ± 0.471 χ^2/NDF : 62.3/56

In: -0.271 ± 0.346 χ^2/NDF : 55.1/48

Out: -0.774 ± 0.333 χ^2/NDF : 94.9/55

All: -0.531 ± 0.240 χ^2/NDF : 151.1/104

diff_bpm1p03aX_rms vs Slug, Sign Corrected



Right In: 2170.189 $\pm$ 0.483 χ^2 /NDF: 5439131.5/25

Left Out: 1657.770 $\pm$ 0.274 χ^2 /NDF: 223465.3/24

Right Out: 2214.228 $\pm$ 0.460 χ^2 /NDF: 6062595.1/30

Left In: 1663.620 $\pm$ 0.284 χ^2 /NDF: 178858.2/22

Left: 1660.599 $\pm$ 0.197 χ^2 /NDF: 402543.2/47

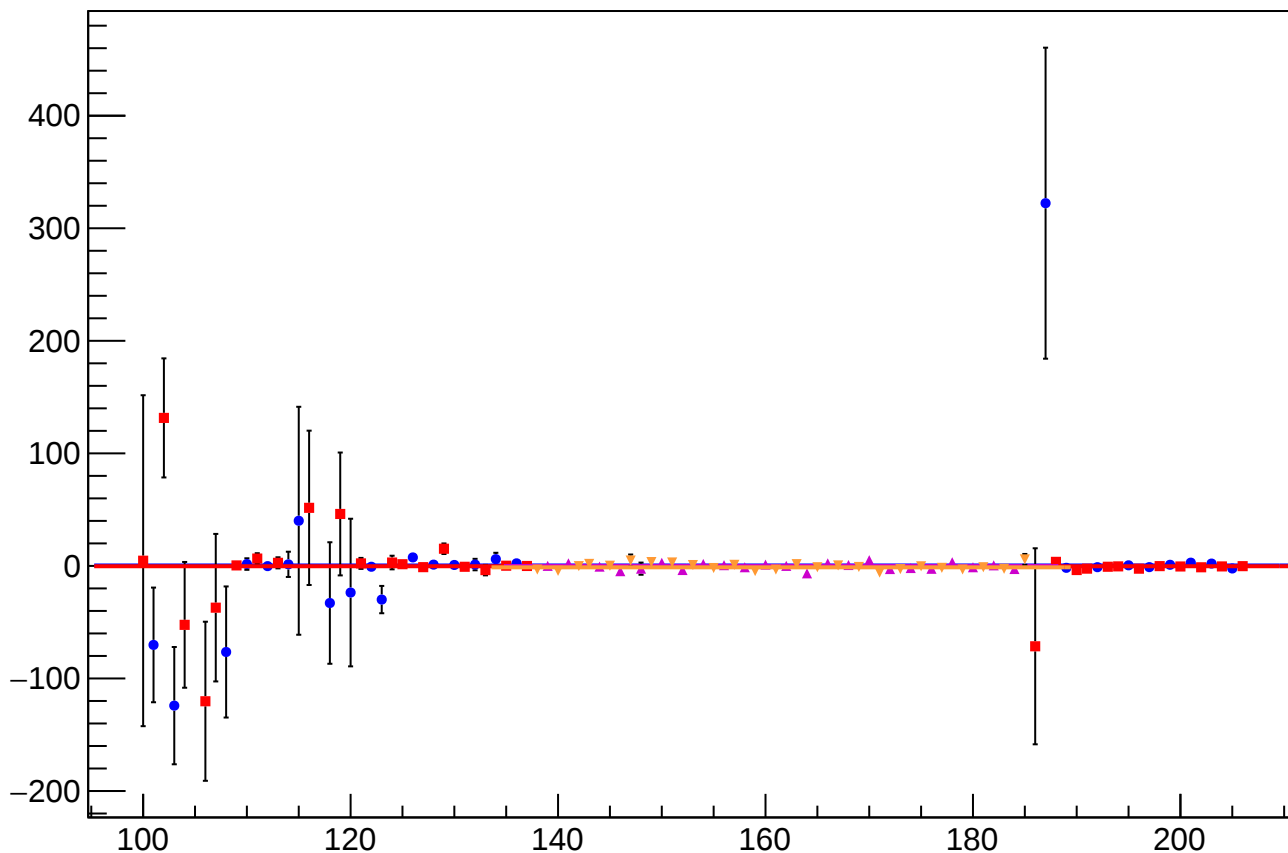
Right: 2193.299 $\pm$ 0.333 χ^2 /NDF: 11506088.6/56

In: 1793.465 $\pm$ 0.245 χ^2 /NDF: 6435879.3/48

Out: 1803.967 $\pm$ 0.236 χ^2 /NDF: 7366422.5/55

All: 1798.911 $\pm$ 0.170 χ^2 /NDF: 13803258.2/103

diff_bpm1p03aY_mean vs Slug, Sign Corrected



Right In: 0.395 ± 0.540 $\chi^2/\text{NDF}: 36.5/25$

Left Out: -1.251 ± 0.535 $\chi^2/\text{NDF}: 21.7/24$

Right Out: -0.297 ± 0.499 $\chi^2/\text{NDF}: 33.0/30$

Left In: -0.098 ± 0.541 $\chi^2/\text{NDF}: 19.3/22$

Left: -0.681 ± 0.380 $\chi^2/\text{NDF}: 43.3/47$

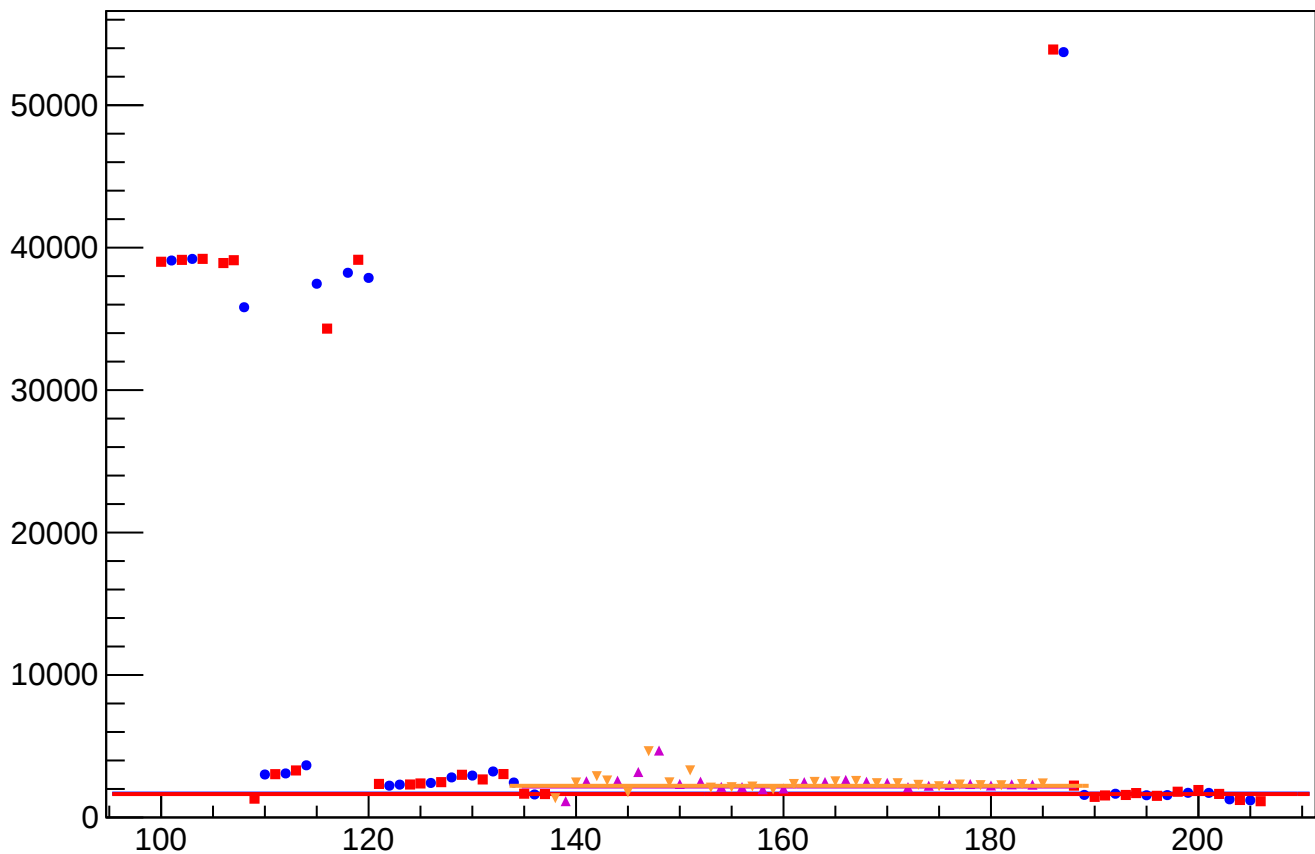
Right: 0.022 ± 0.366 $\chi^2/\text{NDF}: 70.4/56$

In: 0.149 ± 0.382 $\chi^2/\text{NDF}: 56.2/48$

Out: -0.741 ± 0.365 $\chi^2/\text{NDF}: 56.4/55$

All: -0.316 ± 0.264 $\chi^2/\text{NDF}: 115.4/104$

diff_bpm1p03aY_rms vs Slug, Sign Corrected



Right In: 1674.476 $\pm$ 0.382 χ^2 /NDF: 6387792.9/25

Left Out: 2222.081 $\pm$ 0.378 χ^2 /NDF: 1422440.9/24

Right Out: 1641.353 $\pm$ 0.353 χ^2 /NDF: 7170924.2/30

Left In: 2169.443 $\pm$ 0.383 χ^2 /NDF: 1974869.8/22

Left: 2196.064 $\pm$ 0.269 χ^2 /NDF: 3406878.6/47

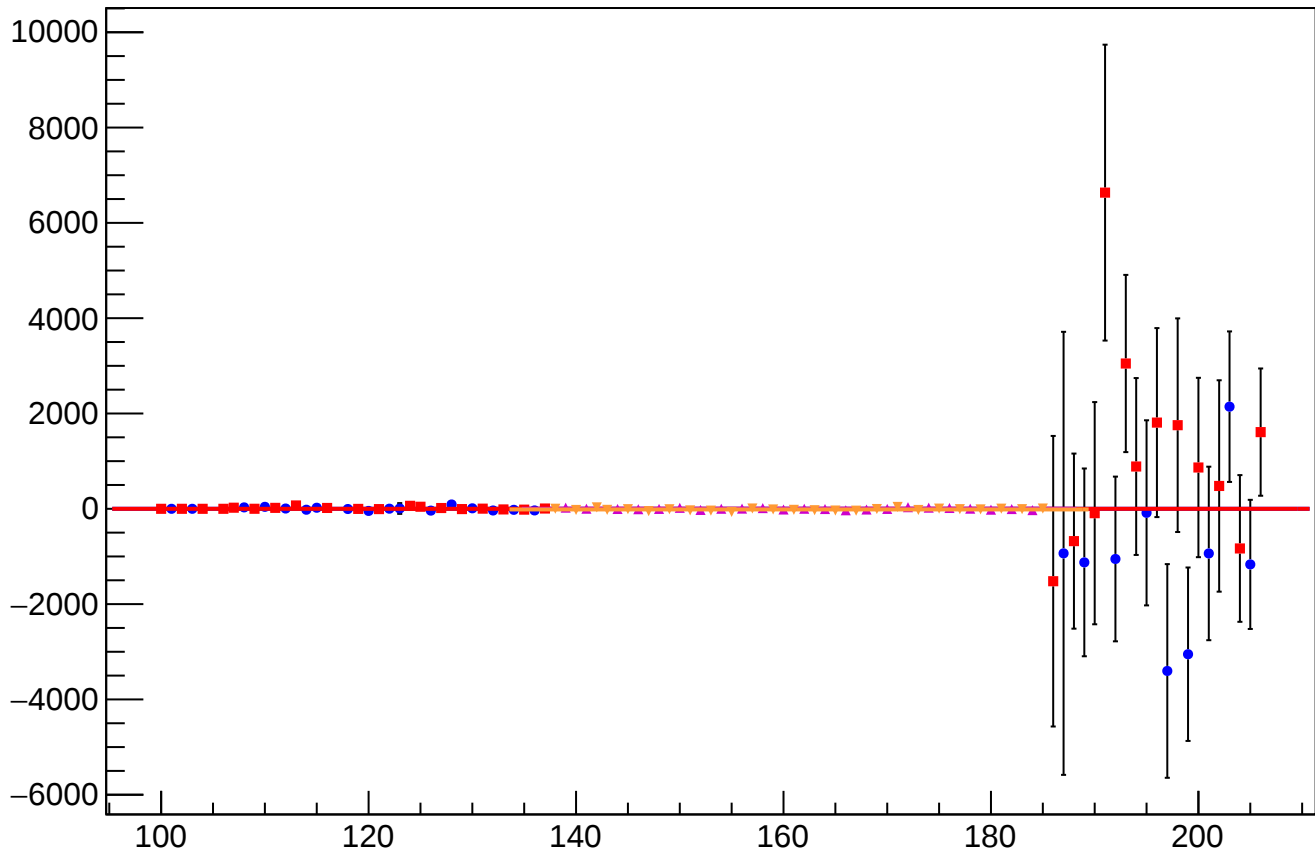
Right: 1656.620 $\pm$ 0.259 χ^2 /NDF: 13562778.9/56

In: 1921.243 $\pm$ 0.270 χ^2 /NDF: 9201470.0/48

Out: 1911.502 $\pm$ 0.258 χ^2 /NDF: 9853451.7/55

All: 1916.148 $\pm$ 0.187 χ^2 /NDF: 19055601.4/103

diff_cav4bX_mean vs Slug, Sign Corrected



Right In: 0.013 ± 0.017 $\chi^2/\text{NDF}: 25.3/25$

Left Out: -13.484 ± 2.800 $\chi^2/\text{NDF}: 58.7/24$

Right Out: -0.003 ± 0.016 $\chi^2/\text{NDF}: 26.8/30$

Left In: 0.459 ± 2.917 $\chi^2/\text{NDF}: 29.0/22$

Left: -6.796 ± 2.020 $\chi^2/\text{NDF}: 99.5/47$

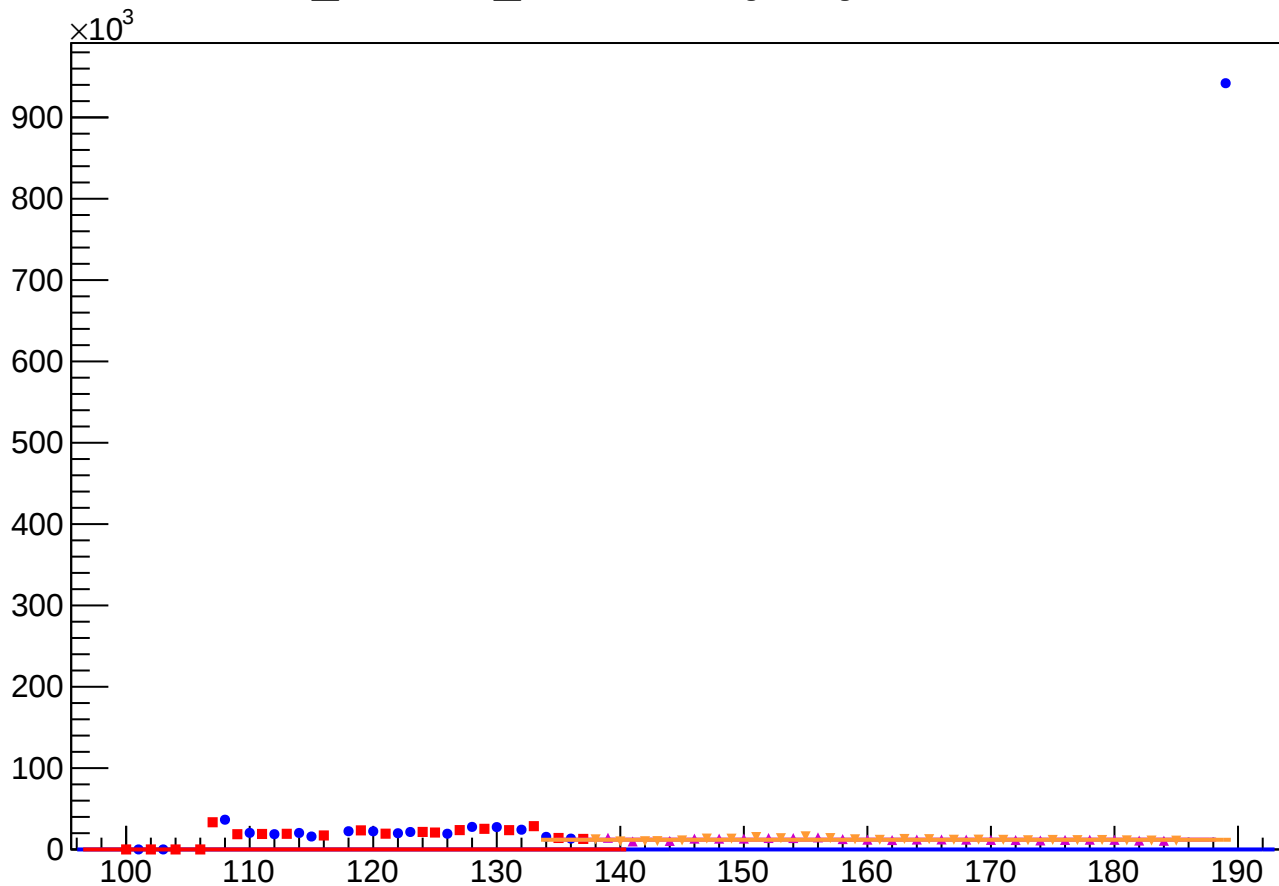
Right: 0.004 ± 0.012 $\chi^2/\text{NDF}: 52.6/56$

In: 0.013 ± 0.017 $\chi^2/\text{NDF}: 54.3/48$

Out: -0.004 ± 0.016 $\chi^2/\text{NDF}: 108.7/55$

All: 0.004 ± 0.012 $\chi^2/\text{NDF}: 163.5/104$

diff_cav4bX_rms vs Slug, Sign Corrected



Right In: 18.641 $\pm$ 0.012 χ^2 /NDF: 11125273.3/17

Left Out: 11910.325 $\pm$ 1.980 χ^2 /NDF: 476504.3/24

Right Out: 18.311 $\pm$ 0.011 χ^2 /NDF: 11063399.8/18

Left In: 12064.761 $\pm$ 2.062 χ^2 /NDF: 368452.5/22

Left: 11984.403 $\pm$ 1.428 χ^2 /NDF: 847874.4/47

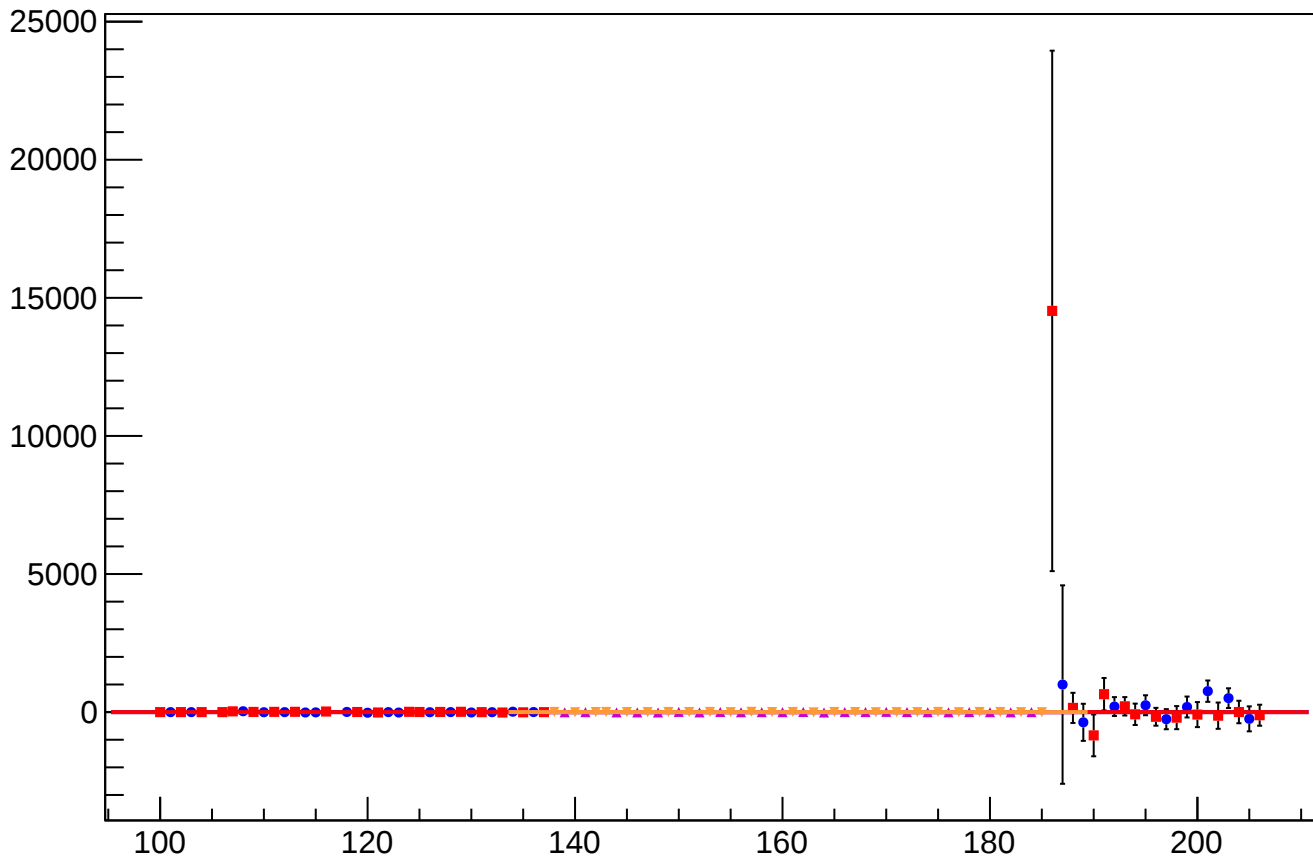
Right: 18.464 $\pm$ 0.008 χ^2 /NDF: 22189063.4/36

In: 19.067 $\pm$ 0.012 χ^2 /NDF: 45607591.7/40

Out: 18.703 $\pm$ 0.011 χ^2 /NDF: 47605245.6/43

All: 18.871 $\pm$ 0.008 χ^2 /NDF: 93213311.5/84

diff_cav4bY_mean vs Slug, Sign Corrected



Right In: 0.001 $\pm$ 0.009 χ^2 /NDF: 21.0/25

Left Out: 1.649 $\pm$ 1.022 χ^2 /NDF: 18.4/24

Right Out: -0.014 $\pm$ 0.009 χ^2 /NDF: 24.8/30

Left In: -0.939 $\pm$ 1.049 χ^2 /NDF: 35.6/22

Left: 0.388 $\pm$ 0.732 χ^2 /NDF: 57.1/47

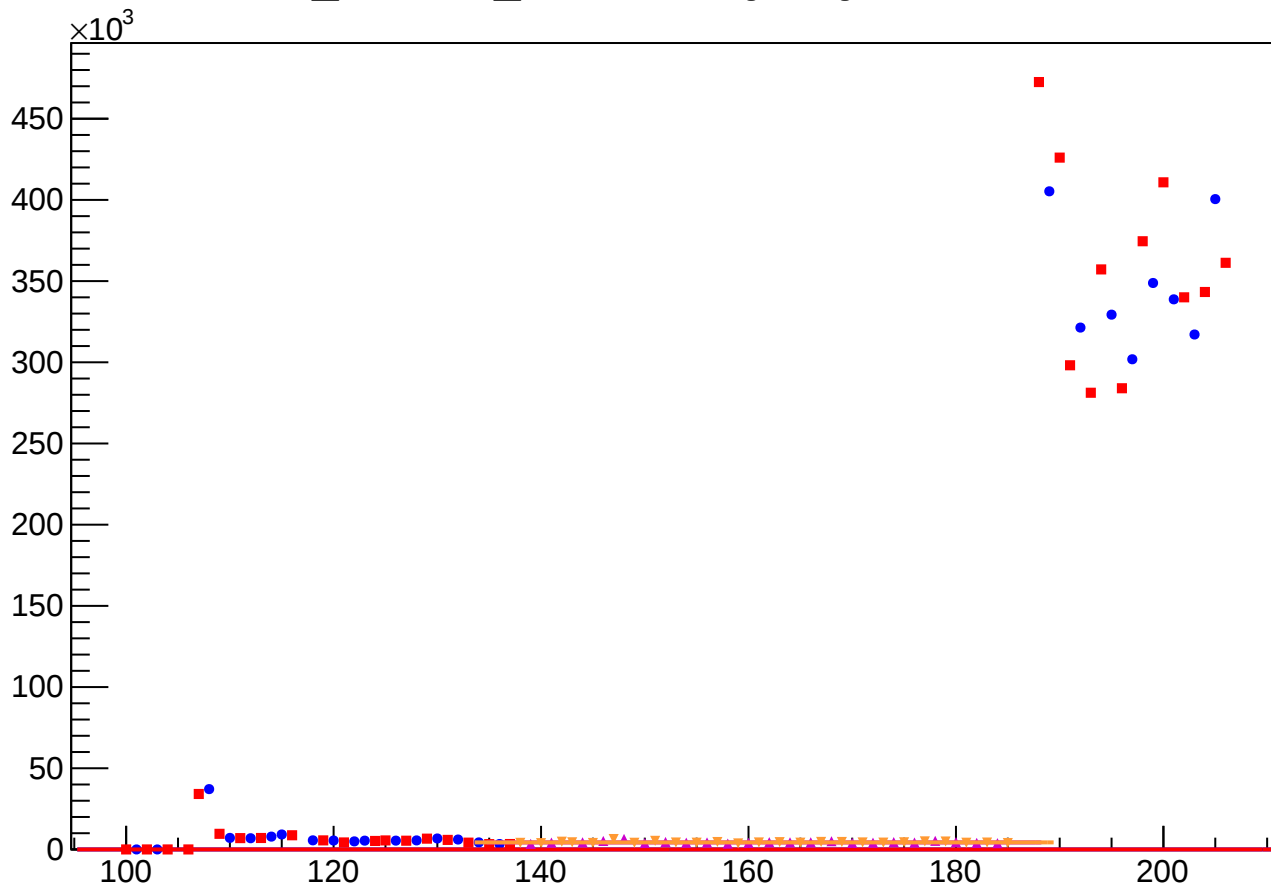
Right: -0.007 $\pm$ 0.006 χ^2 /NDF: 47.2/56

In: 0.001 $\pm$ 0.009 χ^2 /NDF: 57.4/48

Out: -0.014 $\pm$ 0.009 χ^2 /NDF: 45.8/55

All: -0.007 $\pm$ 0.006 χ^2 /NDF: 104.6/104

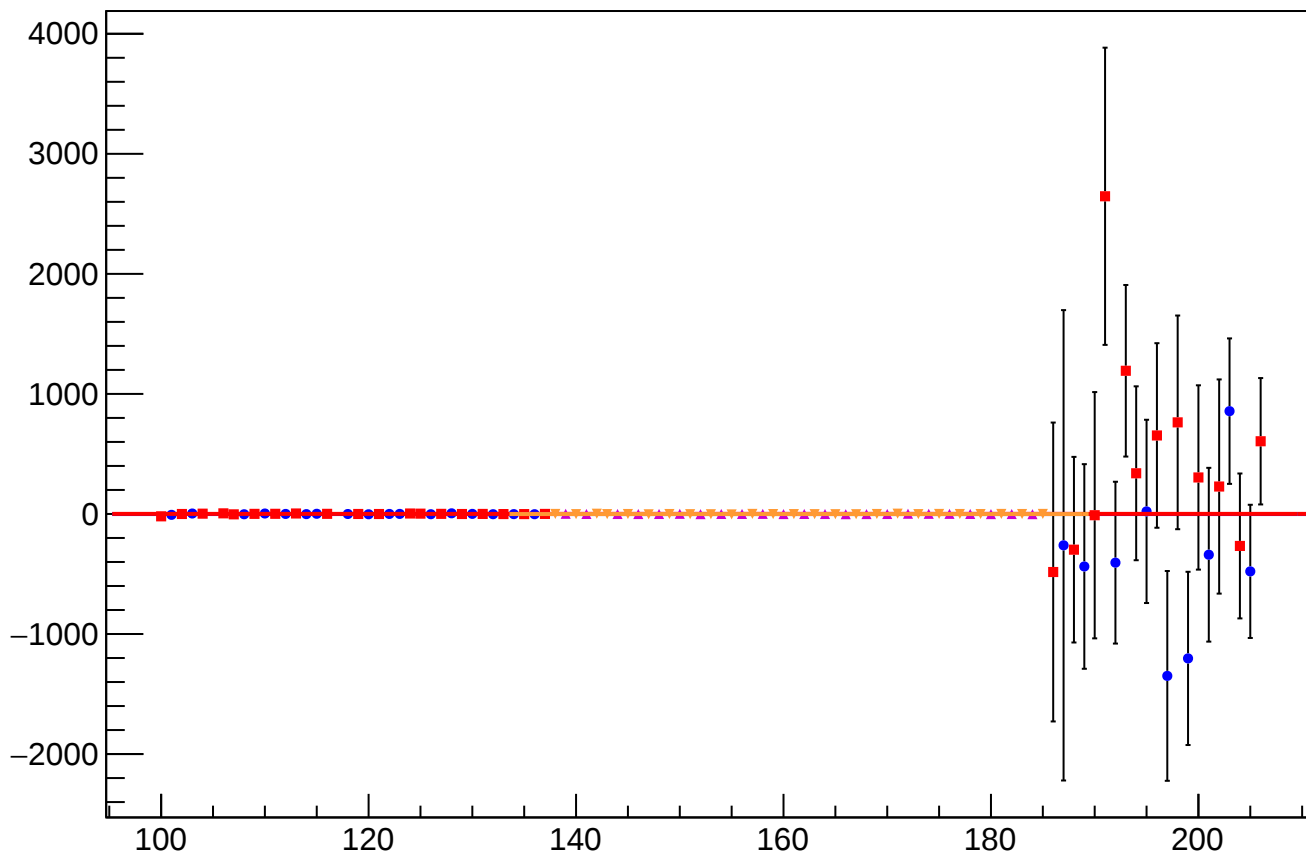
diff_cav4bY_rms vs Slug, Sign Corrected



Right In: 9.940 $\pm$ 0.007 χ^2 /NDF: 22970854.5/24
 Left Out: 4349.005 $\pm$ 0.723 χ^2 /NDF:383895.7/24
 Right Out: 9.856 $\pm$ 0.006 χ^2 /NDF: 25906547.0/29
 Left In: 4321.572 $\pm$ 0.741 χ^2 /NDF:514603.2/22

Left: 4335.639 $\pm$ 0.518 χ^2 /NDF: 899200.9/47
 Right: 9.895 $\pm$ 0.004 χ^2 /NDF: 48877491.2/54
 In: 10.272 $\pm$ 0.007 χ^2 /NDF:57302580.2/47
 Out: 10.166 $\pm$ 0.006 χ^2 /NDF:62335696.1/54
 All: 10.216 $\pm$ 0.004 χ^2 /NDF: 119638416.7/100

diff_cav4cX_mean vs Slug, Sign Corrected



Right In: -0.715 $\pm$ 0.483 χ^2/NDF : 31.5/25

Left Out: -0.775 $\pm$ 0.165 χ^2/NDF : 58.5/24

Right Out: 0.640 $\pm$ 0.501 χ^2/NDF : 24.1/30

Left In: 0.018 $\pm$ 0.171 χ^2/NDF : 29.4/22

Left: -0.393 $\pm$ 0.119 χ^2/NDF : 99.1/47

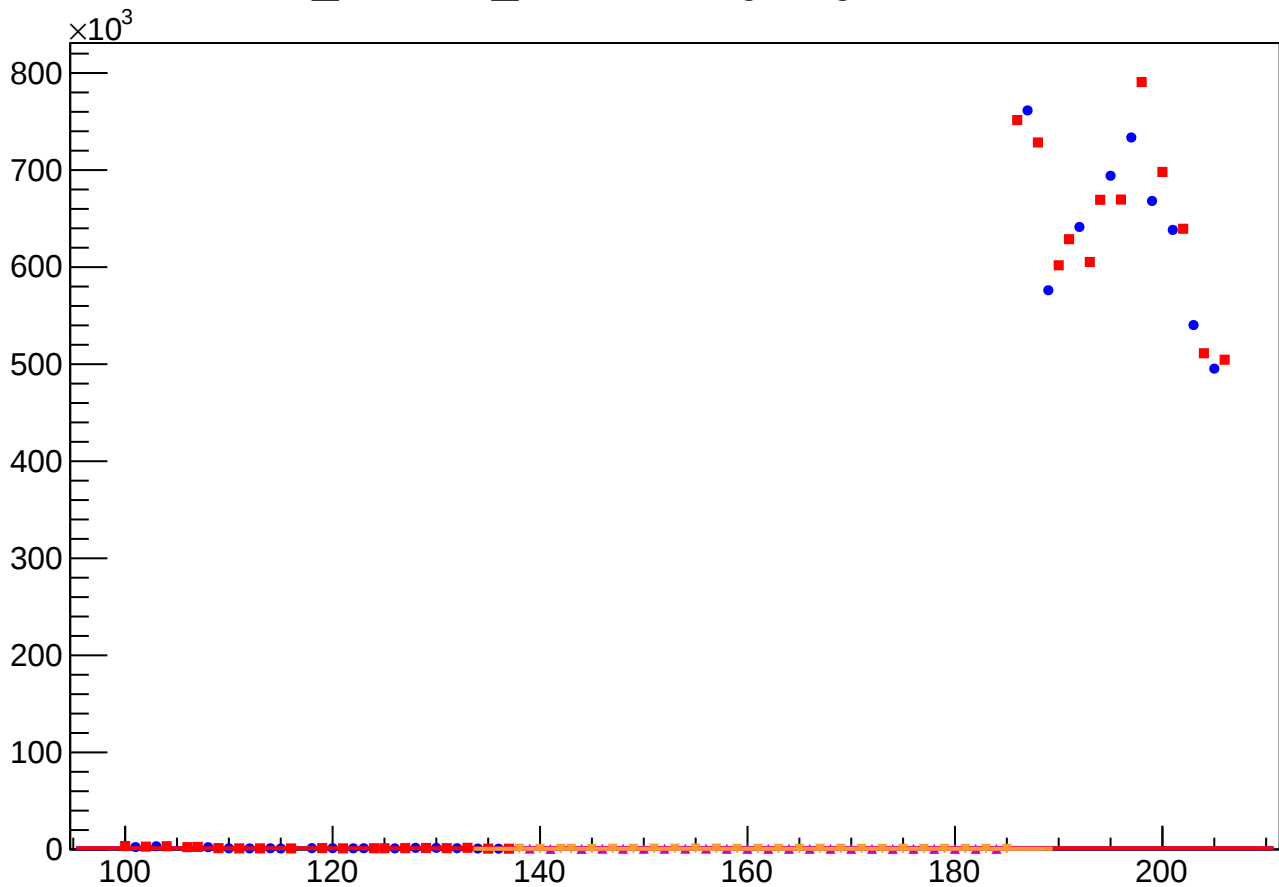
Right: -0.063 $\pm$ 0.348 χ^2/NDF : 59.4/56

In: -0.063 $\pm$ 0.161 χ^2/NDF : 63.0/48

Out: -0.637 $\pm$ 0.156 χ^2/NDF : 89.8/55

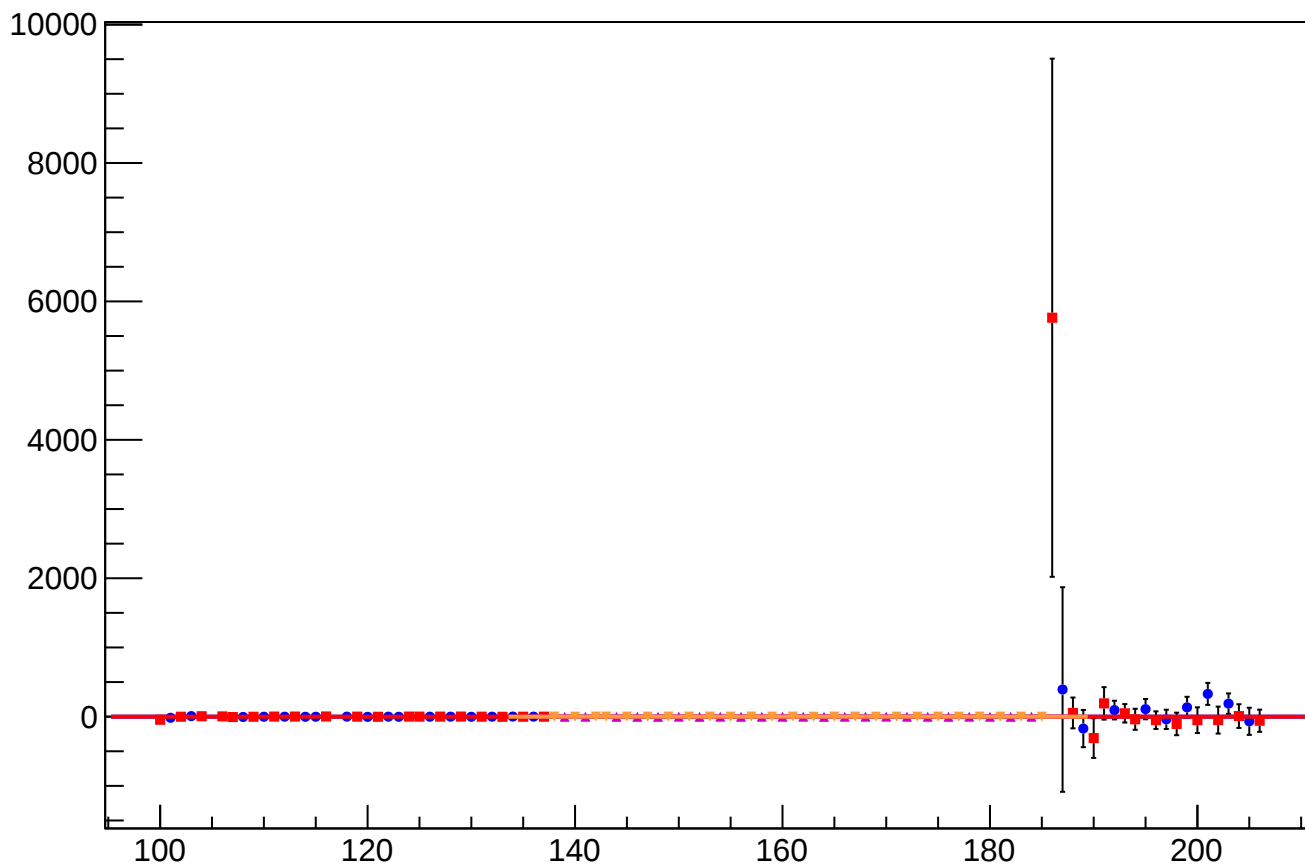
All: -0.359 $\pm$ 0.112 χ^2/NDF : 159.3/104

diff_cav4cX_rms vs Slug, Sign Corrected



Right In: 1169.481 ± 0.342 $\chi^2/\text{NDF}: 14072321.1/25$ Left: 703.867 ± 0.084 $\chi^2/\text{NDF}: 726141.0/47$
 Left Out: 700.984 ± 0.116 $\chi^2/\text{NDF}: 392855.4/24$ Right: 1208.738 ± 0.246 $\chi^2/\text{NDF}: 31498498.9/56$
 Right Out: 1251.034 ± 0.355 $\chi^2/\text{NDF}: 17398745.4/30$ In: 758.345 ± 0.114 $\chi^2/\text{NDF}: 16033723.9/48$
 Left In: 706.971 ± 0.121 $\chi^2/\text{NDF}: 332011.4/22$ Out: 754.466 ± 0.111 $\chi^2/\text{NDF}: 19963841.2/55$
 All: 756.349 ± 0.079 $\chi^2/\text{NDF}: 35998162.4/10$

diff_cav4cY_mean vs Slug, Sign Corrected



Right In: -0.057 ± 0.269 χ^2/NDF : 27.5/25

Left Out: 0.233 ± 0.123 χ^2/NDF : 18.0/24

Right Out: -0.280 ± 0.264 χ^2/NDF : 25.8/30

Left In: -0.126 ± 0.126 χ^2/NDF : 35.0/22

Left: 0.059 ± 0.088 χ^2/NDF : 57.1/47

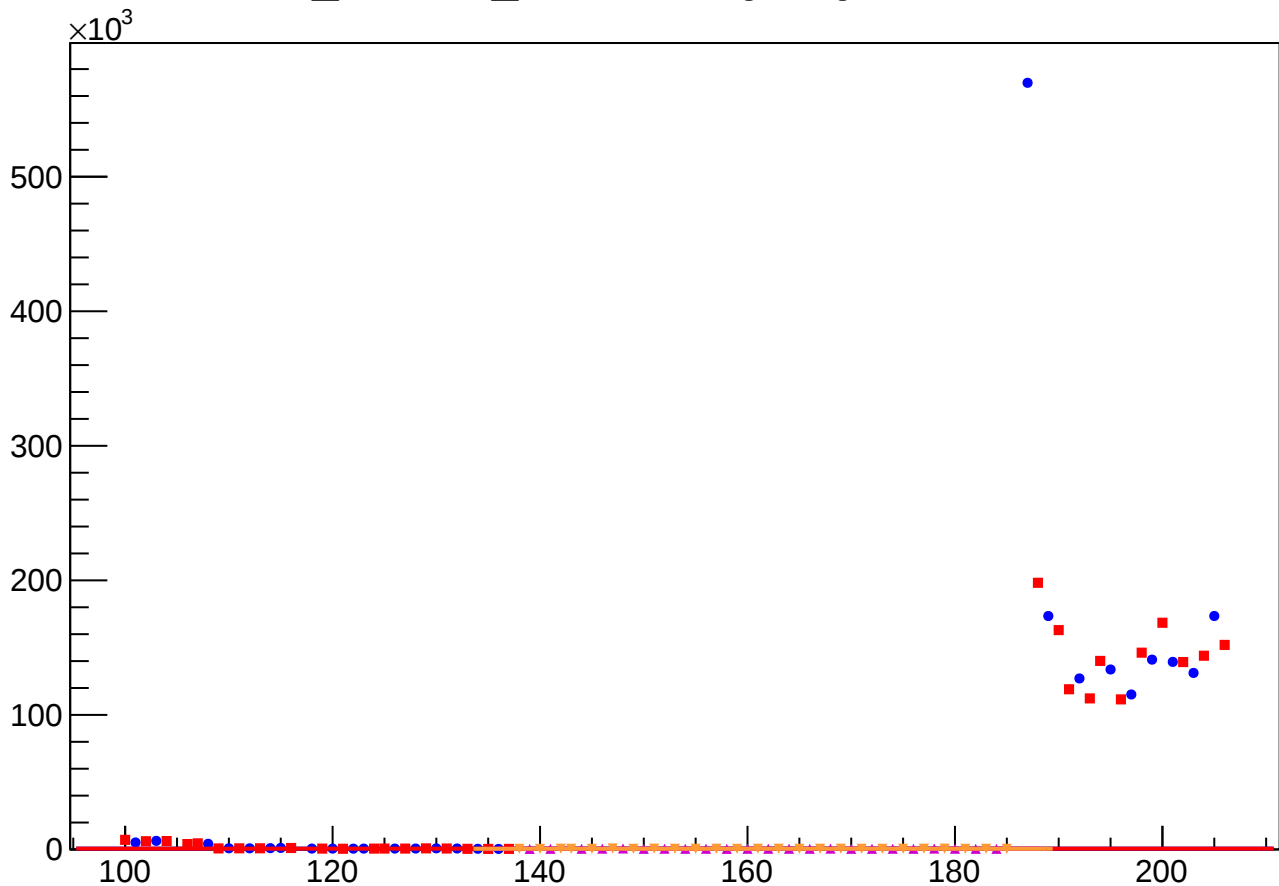
Right: -0.171 ± 0.189 χ^2/NDF : 53.7/56

In: -0.113 ± 0.114 χ^2/NDF : 62.5/48

Out: 0.142 ± 0.111 χ^2/NDF : 46.9/55

All: 0.018 ± 0.080 χ^2/NDF : 112.0/104

diff_cav4cY_rms vs Slug, Sign Corrected



Right In: 612.546 $\pm$ 0.190 χ^2 /NDF: 15349458.6/25

Left Out: 522.220 $\pm$ 0.087 χ^2 /NDF: 330405.3/24

Right Out: 602.466 $\pm$ 0.187 χ^2 /NDF: 18340943.0/29

Left In: 520.700 $\pm$ 0.089 χ^2 /NDF: 427720.5/22

Left: 521.481 $\pm$ 0.062 χ^2 /NDF: 758275.0/47

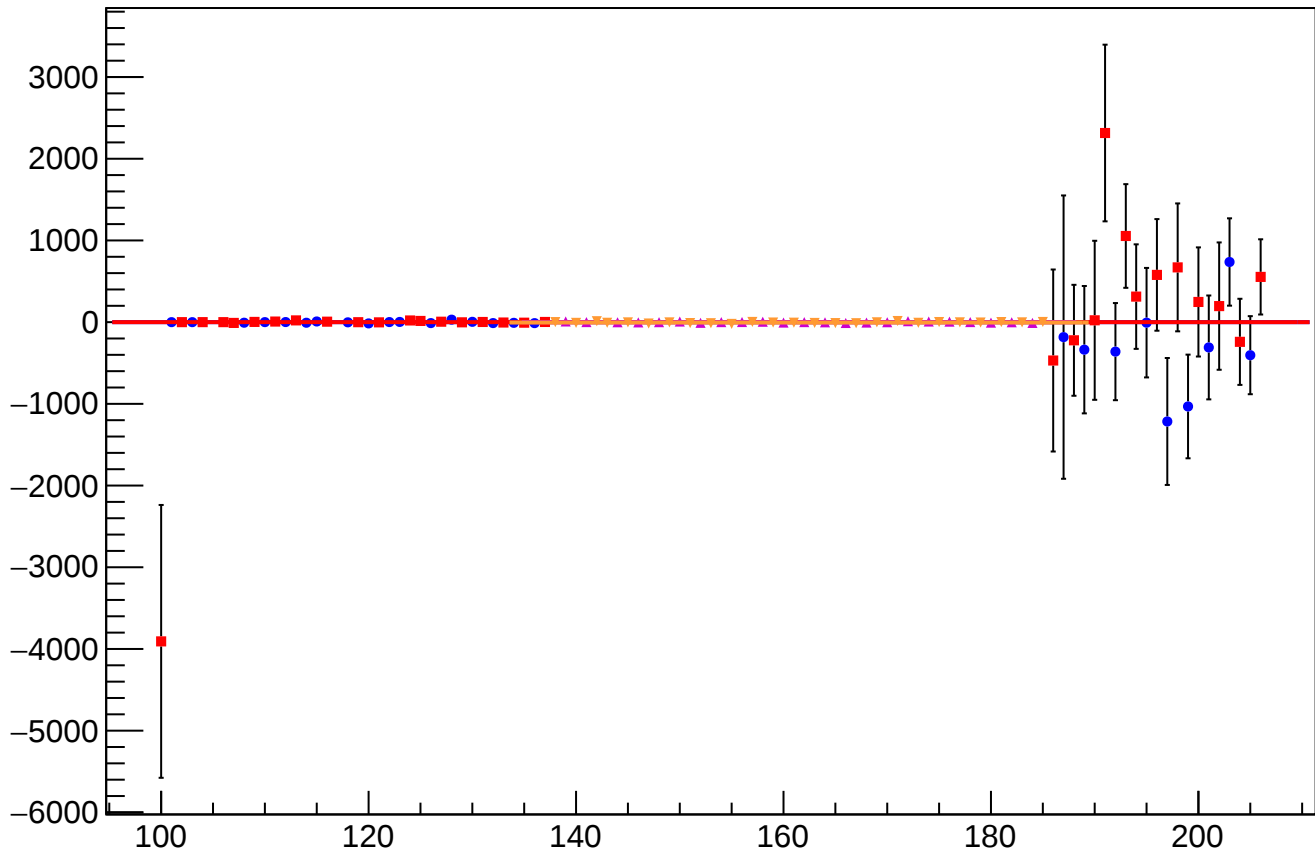
Right: 607.420 $\pm$ 0.133 χ^2 /NDF: 33691829.7/55

In: 537.257 $\pm$ 0.081 χ^2 /NDF: 15968311.0/48

Out: 536.420 $\pm$ 0.079 χ^2 /NDF: 18822960.5/54

All: 536.827 $\pm$ 0.056 χ^2 /NDF: 34791326.7/10

diff_cav4dX_mean vs Slug, Sign Corrected



Right In: -0.022 ± 0.021 χ^2/NDF : 24.5/25

Left Out: -4.480 ± 0.957 χ^2/NDF : 58.4/24

Right Out: 0.027 ± 0.020 χ^2/NDF : 28.6/30

Left In: 0.183 ± 0.994 χ^2/NDF : 29.5/22

Left: -2.236 ± 0.689 χ^2/NDF : 99.3/47

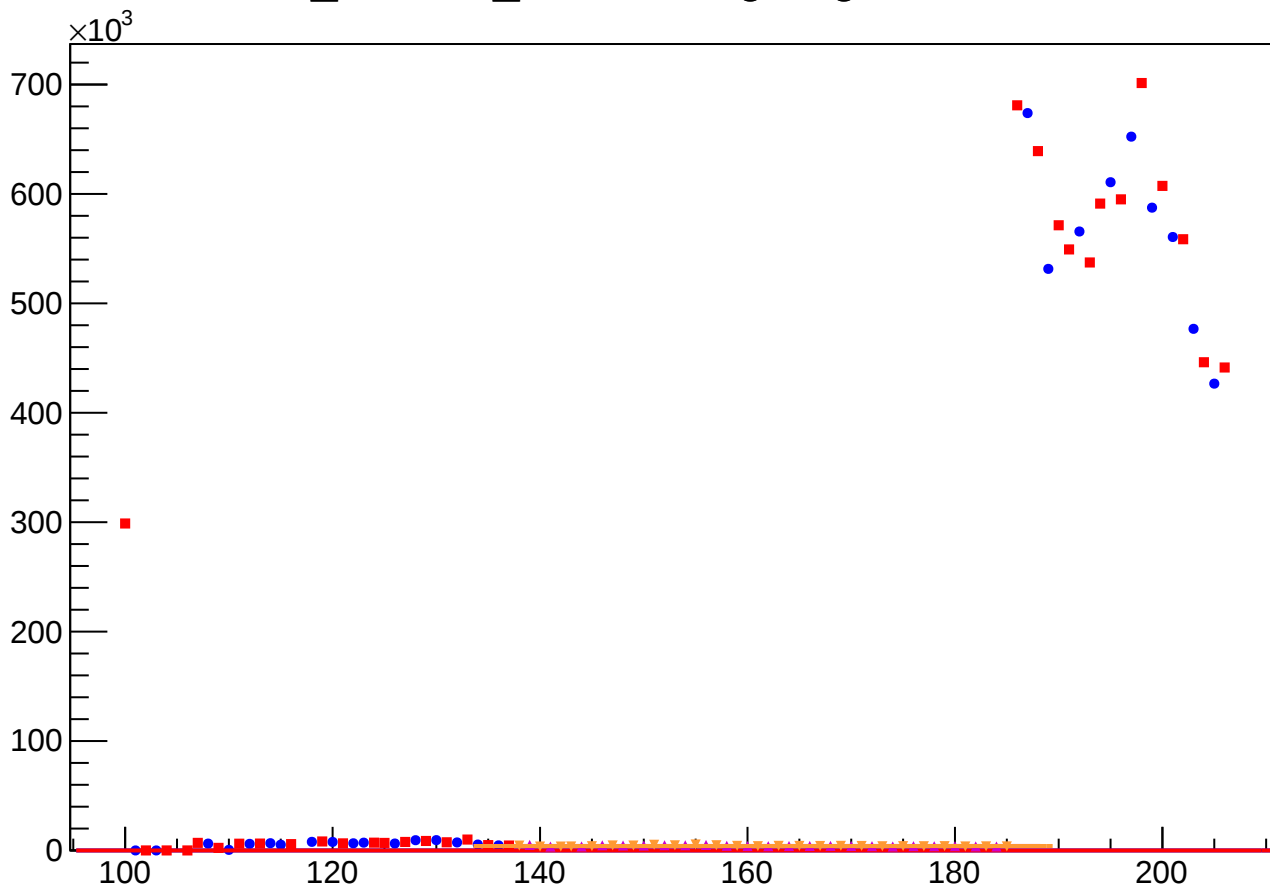
Right: 0.004 ± 0.014 χ^2/NDF : 55.9/56

In: -0.022 ± 0.021 χ^2/NDF : 54.0/48

Out: 0.025 ± 0.020 χ^2/NDF : 109.2/55

All: 0.003 ± 0.014 χ^2/NDF : 165.8/104

diff_cav4dX_rms vs Slug, Sign Corrected



Right In: 17.344+/-0.015 χ^2/NDF : 23027990.5/25

Left Out: 4075.147+/-0.677 χ^2/NDF : 417511.0/24

Right Out: 17.273+/-0.014 χ^2/NDF : 26690919.6/30

Left In: 4113.993+/-0.703 χ^2/NDF : 349160.6/22

Left: 4093.835+/-0.488 χ^2/NDF : 768256.5/47

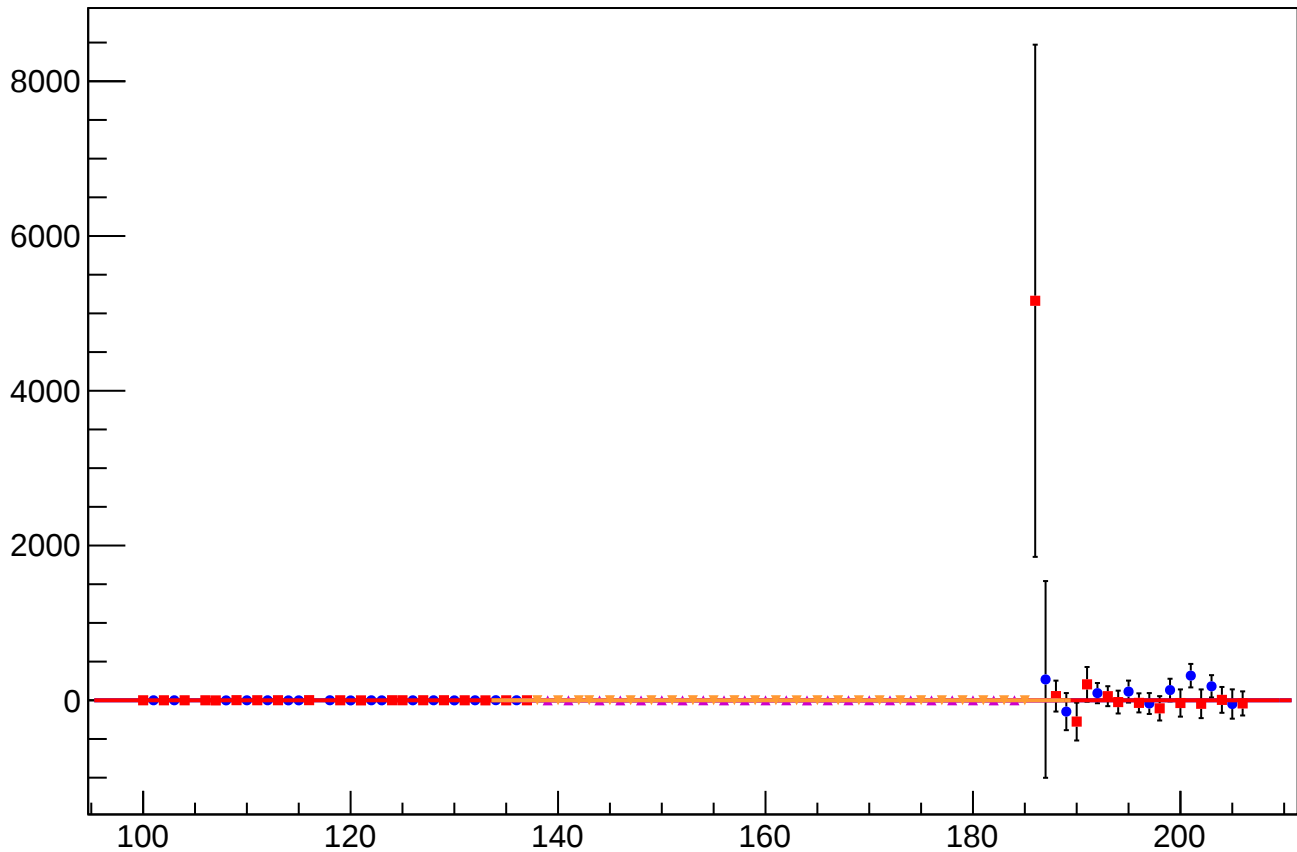
Right: 17.307+/-0.010 χ^2/NDF : 49718922.5/56

In: 19.136+/-0.015 χ^2/NDF : 57330444.7/48

Out: 19.005+/-0.014 χ^2/NDF : 63043879.9/55

All: 19.067+/-0.010 χ^2/NDF : 120374366.5/10

diff_cav4dY_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.002 χ^2 /NDF: 22.1/25

Left Out: 0.148 $\pm$ 0.076 χ^2 /NDF:17.3/24

Right Out: -0.001 $\pm$ 0.002 χ^2 /NDF: 23.7/30

Left In: -0.080 $\pm$ 0.079 χ^2 /NDF:34.6/22

Left: 0.038 $\pm$ 0.055 χ^2 /NDF: 56.3/47

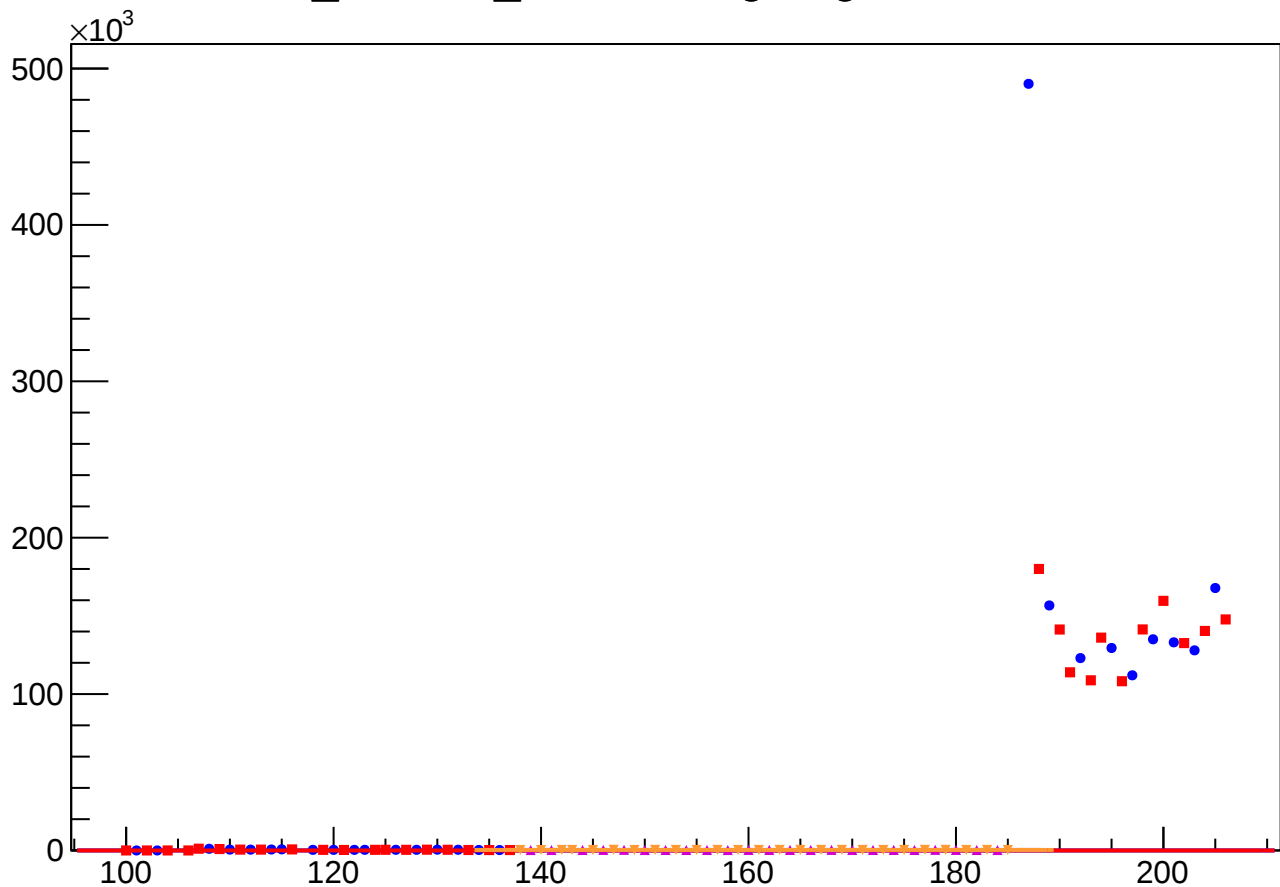
Right: -0.000 $\pm$ 0.001 χ^2 /NDF: 45.9/56

In: 0.000 $\pm$ 0.002 χ^2 /NDF:57.8/48

Out: -0.001 $\pm$ 0.002 χ^2 /NDF:44.8/55

All: -0.000 $\pm$ 0.001 χ^2 /NDF: 102.7/104

diff_cav4dY_rms vs Slug, Sign Corrected



Right In: 1.699 $\pm$ 0.001 χ^2 /NDF: 23353935.5/25

Left Out: 325.326 $\pm$ 0.054 χ^2 /NDF:347705.2/24

Right Out: 1.728 $\pm$ 0.001 χ^2 /NDF: 25670134.1/29

Left In: 325.626 $\pm$ 0.056 χ^2 /NDF:413350.0/22

Left: 325.471 $\pm$ 0.039 χ^2 /NDF: 761070.2/47

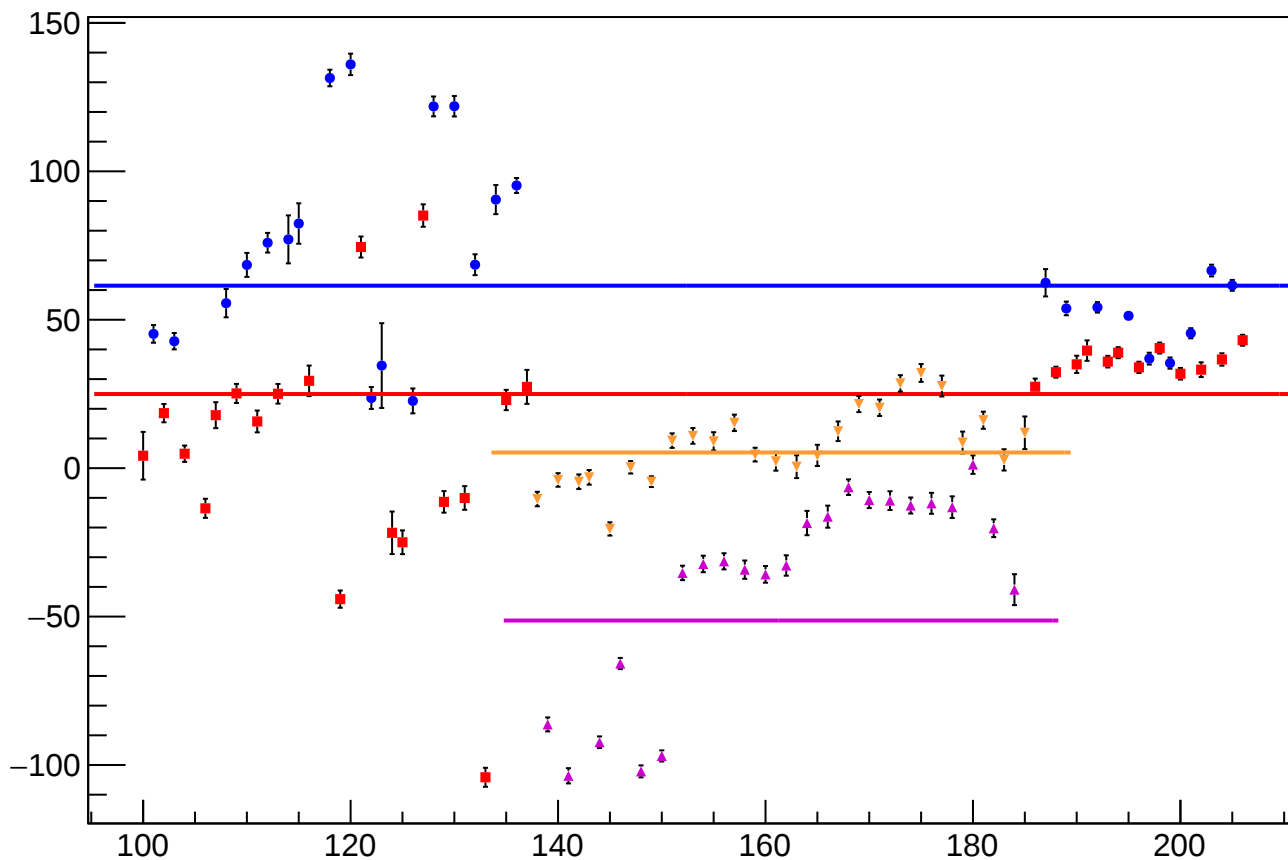
Right: 1.714 $\pm$ 0.001 χ^2 /NDF: 49024286.9/55

In: 1.913 $\pm$ 0.001 χ^2 /NDF:57496056.4/48

Out: 1.937 $\pm$ 0.001 χ^2 /NDF:61877624.5/54

All: 1.925 $\pm$ 0.001 χ^2 /NDF: 119373827.5/103

diff_bpm0i01X_mean vs Slug, Sign Corrected



Right In: 61.478 ± 0.526 χ^2/NDF : 2714.4/25

Left Out: 5.276 ± 0.544 χ^2/NDF : 556.2/24

Right Out: 24.974 ± 0.494 χ^2/NDF : 3610.7/30

Left In: -51.328 ± 0.558 χ^2/NDF : 4257.8/22

Left: -22.298 ± 0.390 χ^2/NDF : 10084.6/47

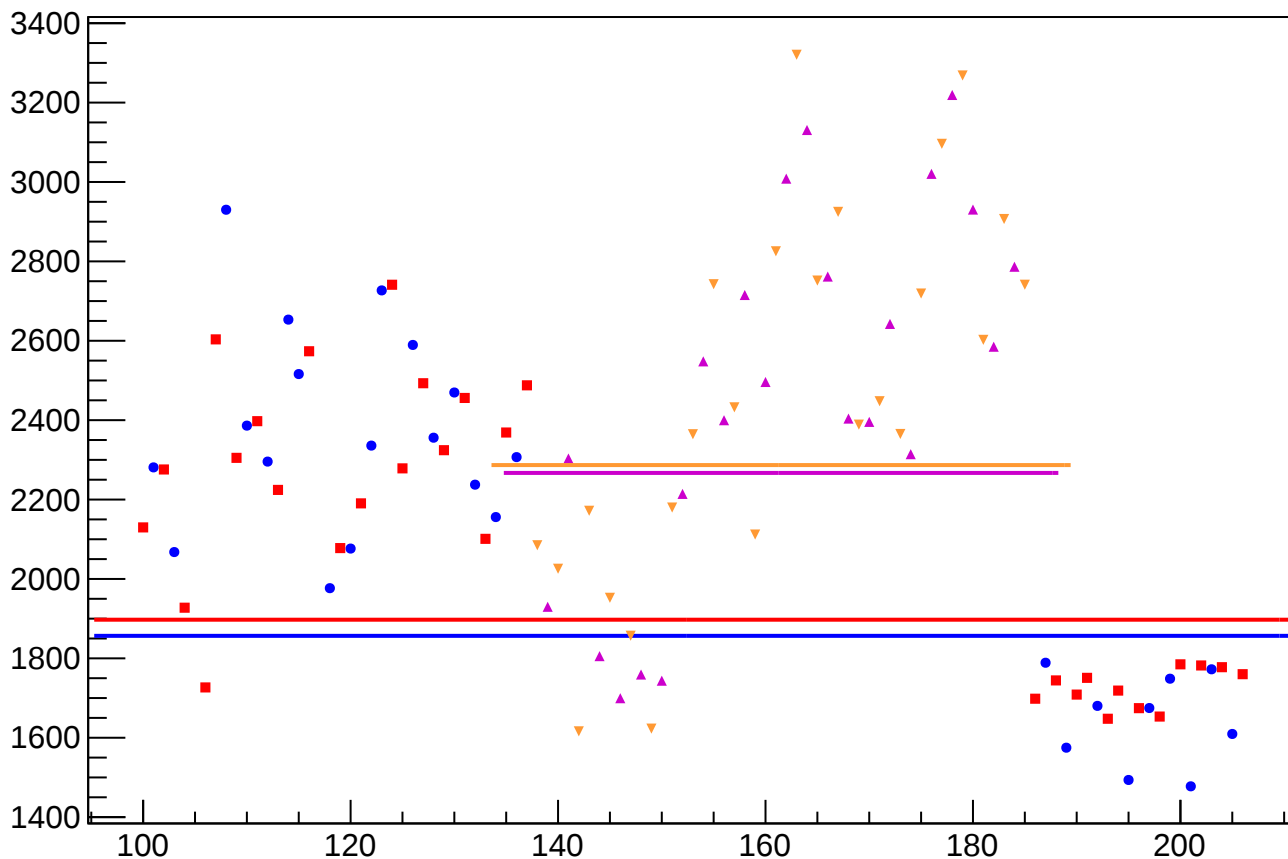
Right: 42.080 ± 0.360 χ^2/NDF : 8885.8/56

In: 8.454 ± 0.383 χ^2/NDF : 28603.4/48

Out: 16.078 ± 0.366 χ^2/NDF : 4885.4/55

All: 12.440 ± 0.264 χ^2/NDF : 33696.3/104

diff_bpm0i01X_rms vs Slug, Sign Corrected



Right In: 1856.702 ± 0.372 $\chi^2/\text{NDF}: 884087.5/25$

Left Out: 2286.871 ± 0.385 $\chi^2/\text{NDF}: 1360490.8/24$

Right Out: 1897.355 ± 0.349 $\chi^2/\text{NDF}: 642840.0/30$

Left In: 2267.097 ± 0.395 $\chi^2/\text{NDF}: 1313364.4/22$

Left: 2277.239 ± 0.276 $\chi^2/\text{NDF}: 2675141.7/47$

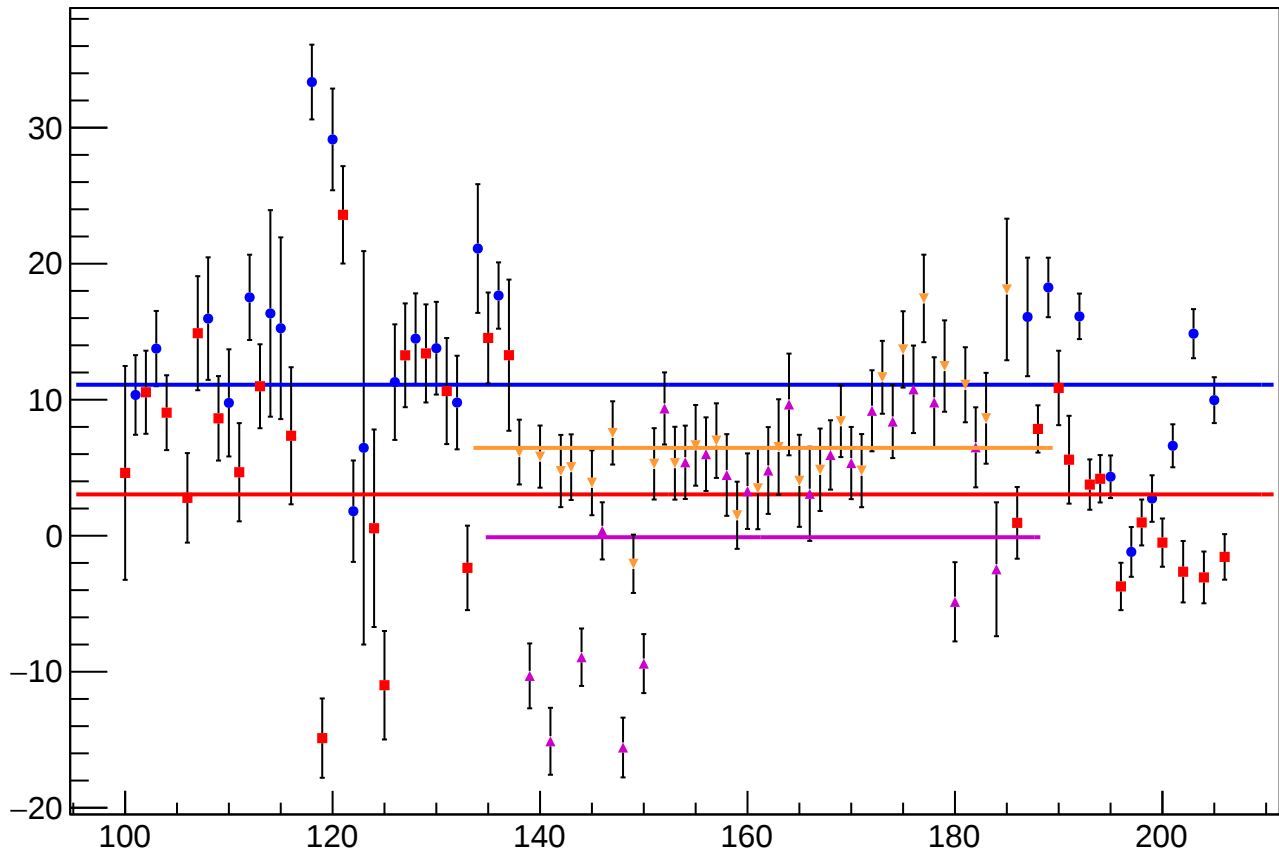
Right: 1878.305 ± 0.255 $\chi^2/\text{NDF}: 1533279.1/56$

In: 2049.609 ± 0.271 $\chi^2/\text{NDF}: 2770049.4/48$

Out: 2073.257 ± 0.259 $\chi^2/\text{NDF}: 2565293.2/55$

All: 2061.974 ± 0.187 $\chi^2/\text{NDF}: 5339333.3/10$

diff_bpm0i01Y_mean vs Slug, Sign Corrected



Right In: 11.101 ± 0.498 $\chi^2/\text{NDF}: 237.7/25$

Left Out: 6.458 ± 0.548 $\chi^2/\text{NDF}: 58.7/24$

Right Out: 3.038 ± 0.466 $\chi^2/\text{NDF}: 212.9/30$

Left In: -0.110 ± 0.565 $\chi^2/\text{NDF}: 234.6/22$

Left: 3.278 ± 0.393 $\chi^2/\text{NDF}: 363.0/47$

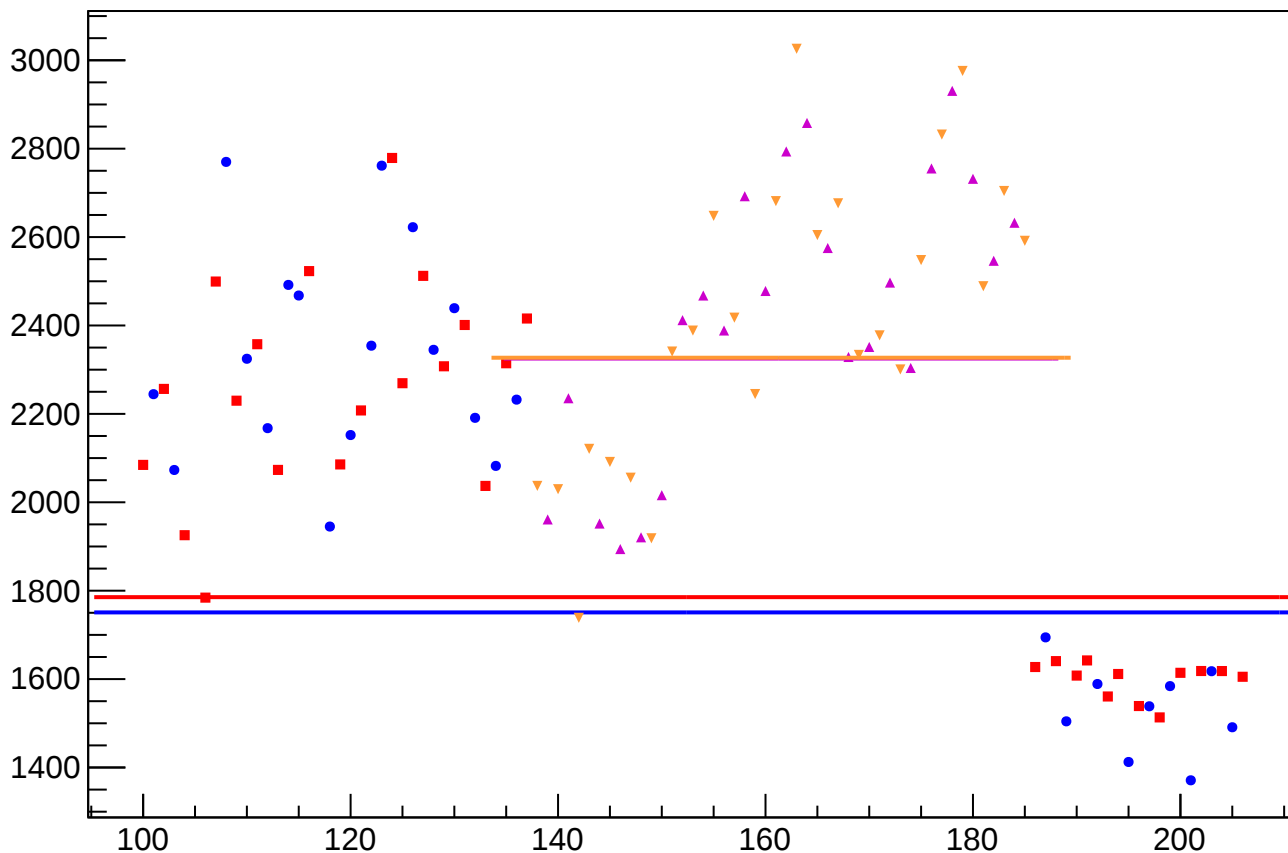
Right: 6.808 ± 0.340 $\chi^2/\text{NDF}: 590.3/56$

In: 6.205 ± 0.373 $\chi^2/\text{NDF}: 693.9/48$

Out: 4.476 ± 0.355 $\chi^2/\text{NDF}: 294.2/55$

All: 5.297 ± 0.257 $\chi^2/\text{NDF}: 999.4/104$

diff_bpm0i01Y_rms vs Slug, Sign Corrected



Right In: 1750.859 ± 0.352 $\chi^2/\text{NDF}: 1108999.8/25$

Left Out: 2327.044 ± 0.387 $\chi^2/\text{NDF}: 646706.7/24$

Right Out: 1785.385 ± 0.330 $\chi^2/\text{NDF}: 877767.6/30$

Left In: 2325.175 ± 0.400 $\chi^2/\text{NDF}: 610729.2/22$

Left: 2326.139 ± 0.278 $\chi^2/\text{NDF}: 1257447.2/47$

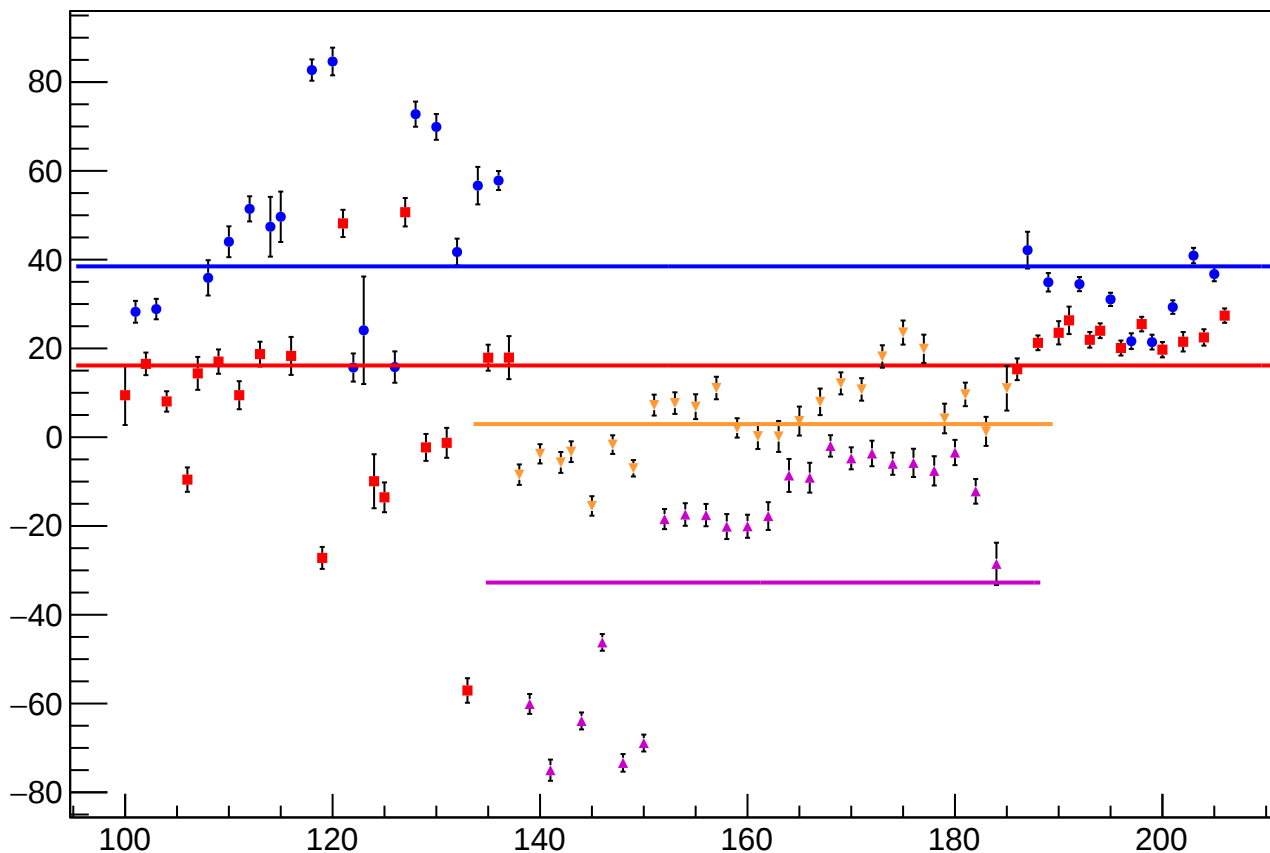
Right: 1769.243 ± 0.241 $\chi^2/\text{NDF}: 1991893.9/56$

In: 2001.667 ± 0.264 $\chi^2/\text{NDF}: 2883130.3/48$

Out: 2013.069 ± 0.251 $\chi^2/\text{NDF}: 2658931.4/55$

All: 2007.657 ± 0.182 $\chi^2/\text{NDF}: 5543041.0/10$

diff_bpm0i01aX_mean vs Slug, Sign Corrected



Right In: 38.485 $\pm$ 0.461 χ^2/NDF : 1349.9/25

Left Out: 2.952 $\pm$ 0.512 χ^2/NDF :337.8/24

Right Out: 16.158 $\pm$ 0.432 χ^2/NDF : 1670.2/30

Left In: -32.745 $\pm$ 0.526 χ^2/NDF :2632.5/22

Left: -14.409 $\pm$ 0.367 χ^2/NDF : 5335.1/47

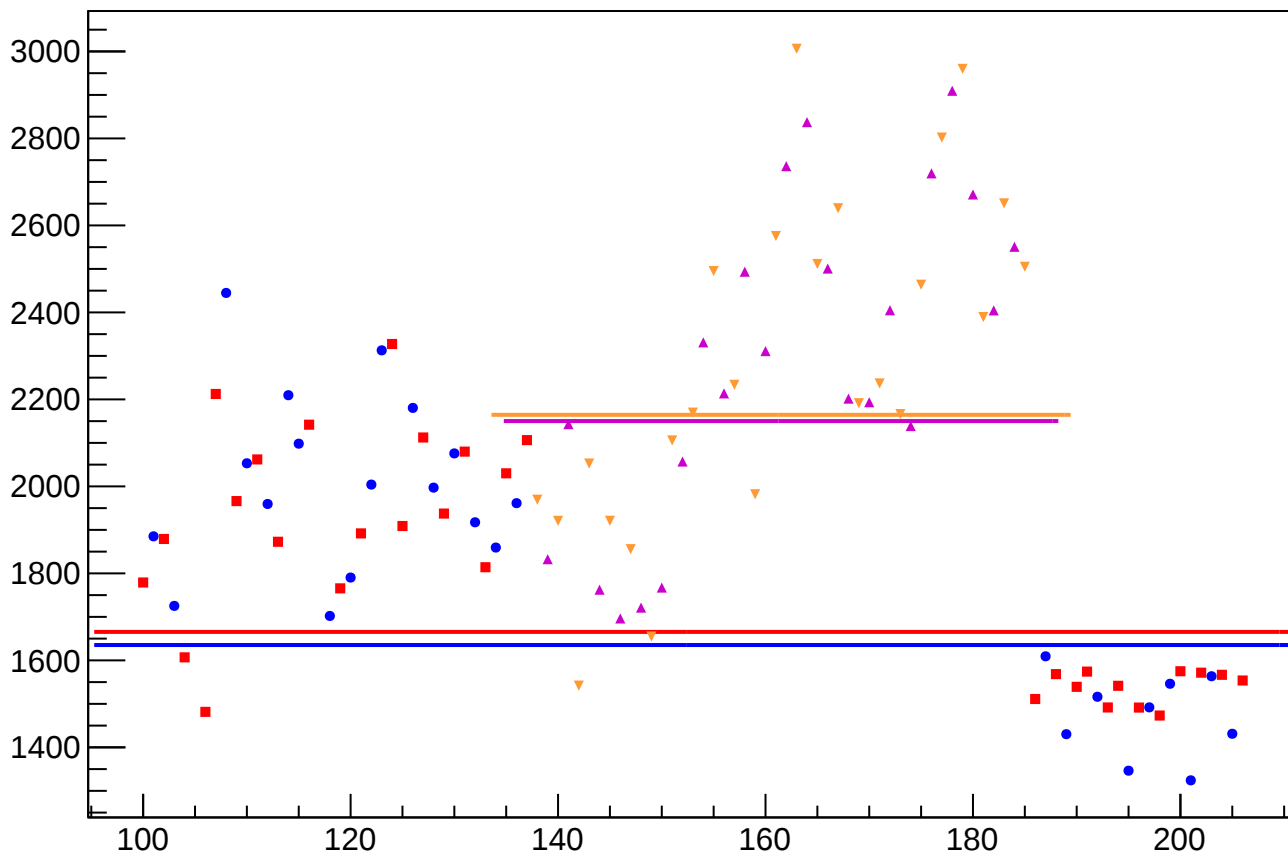
Right: 26.604 $\pm$ 0.315 χ^2/NDF : 4269.4/56

In: 7.564 $\pm$ 0.347 χ^2/NDF :14355.2/48

Out: 10.664 $\pm$ 0.330 χ^2/NDF :2396.6/55

All: 9.189 $\pm$ 0.239 χ^2/NDF : 16793.7/104

diff_bpm0i01aX_rms vs Slug, Sign Corrected



Right In: 1635.262 ± 0.326 $\chi^2/\text{NDF}: 667194.7/25$

Left Out: 2164.573 ± 0.362 $\chi^2/\text{NDF}: 965603.5/24$

Right Out: 1665.449 ± 0.306 $\chi^2/\text{NDF}: 471283.7/30$

Left In: 2150.190 ± 0.372 $\chi^2/\text{NDF}: 911849.7/22$

Left: 2157.578 ± 0.259 $\chi^2/\text{NDF}: 1878220.9/47$

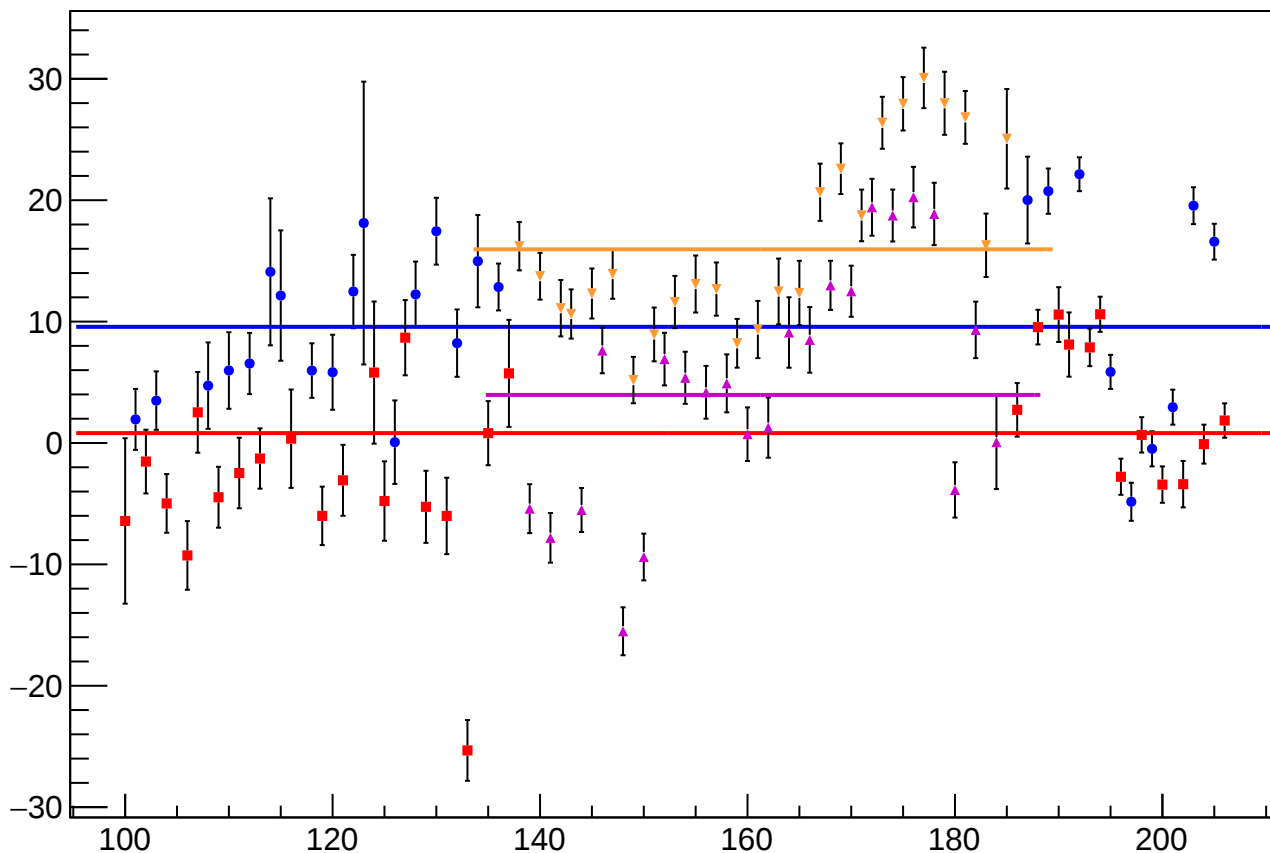
Right: 1651.325 ± 0.223 $\chi^2/\text{NDF}: 1143045.6/56$

In: 1858.793 ± 0.245 $\chi^2/\text{NDF}: 2663193.0/48$

Out: 1873.103 ± 0.233 $\chi^2/\text{NDF}: 2547134.4/55$

All: 1866.296 ± 0.169 $\chi^2/\text{NDF}: 5212114.3/10$

diff_bpm0i01aY_mean vs Slug, Sign Corrected



Right In: 9.570 ± 0.422 χ^2/NDF : 400.7/25

Left Out: 15.956 ± 0.447 χ^2/NDF : 245.2/24

Right Out: 0.815 ± 0.389 χ^2/NDF : 316.8/30

Left In: 3.960 ± 0.463 χ^2/NDF : 464.9/22

Left: 10.161 ± 0.322 χ^2/NDF : 1057.3/47

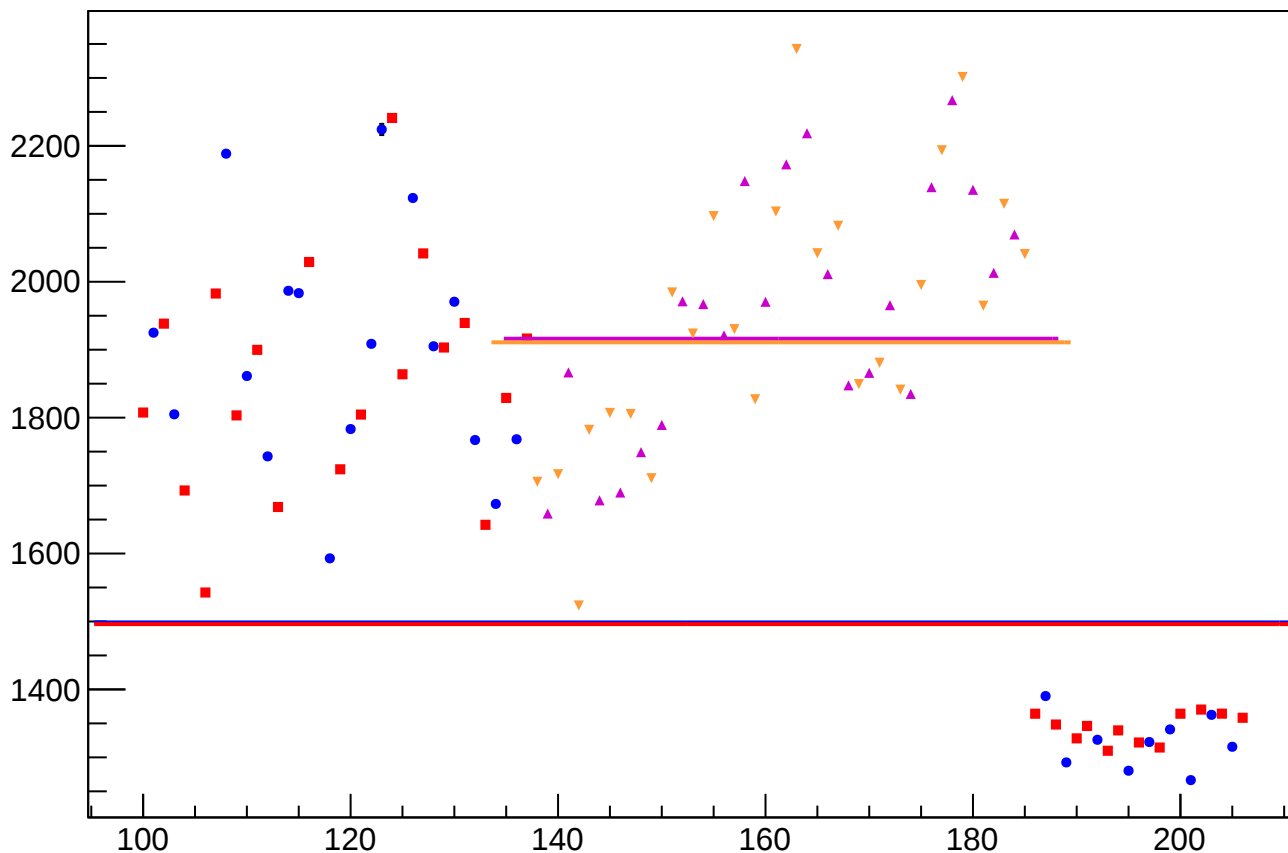
Right: 4.840 ± 0.286 χ^2/NDF : 950.1/56

In: 7.023 ± 0.312 χ^2/NDF : 945.9/48

Out: 7.339 ± 0.294 χ^2/NDF : 1213.8/55

All: 7.191 ± 0.214 χ^2/NDF : 2160.2/104

diff_bpm0i01aY_rms vs Slug, Sign Corrected



Right In: 1498.576 $\pm$ 0.298 χ^2 /NDF: 789623.3/25

Left Out: 1910.859 $\pm$ 0.316 χ^2 /NDF:328970.6/24

Right Out: 1496.105 $\pm$ 0.275 χ^2 /NDF: 737888.7/30

Left In: 1916.159 $\pm$ 0.327 χ^2 /NDF:274285.3/22

Left: 1913.419 $\pm$ 0.227 χ^2 /NDF: 603391.5/47

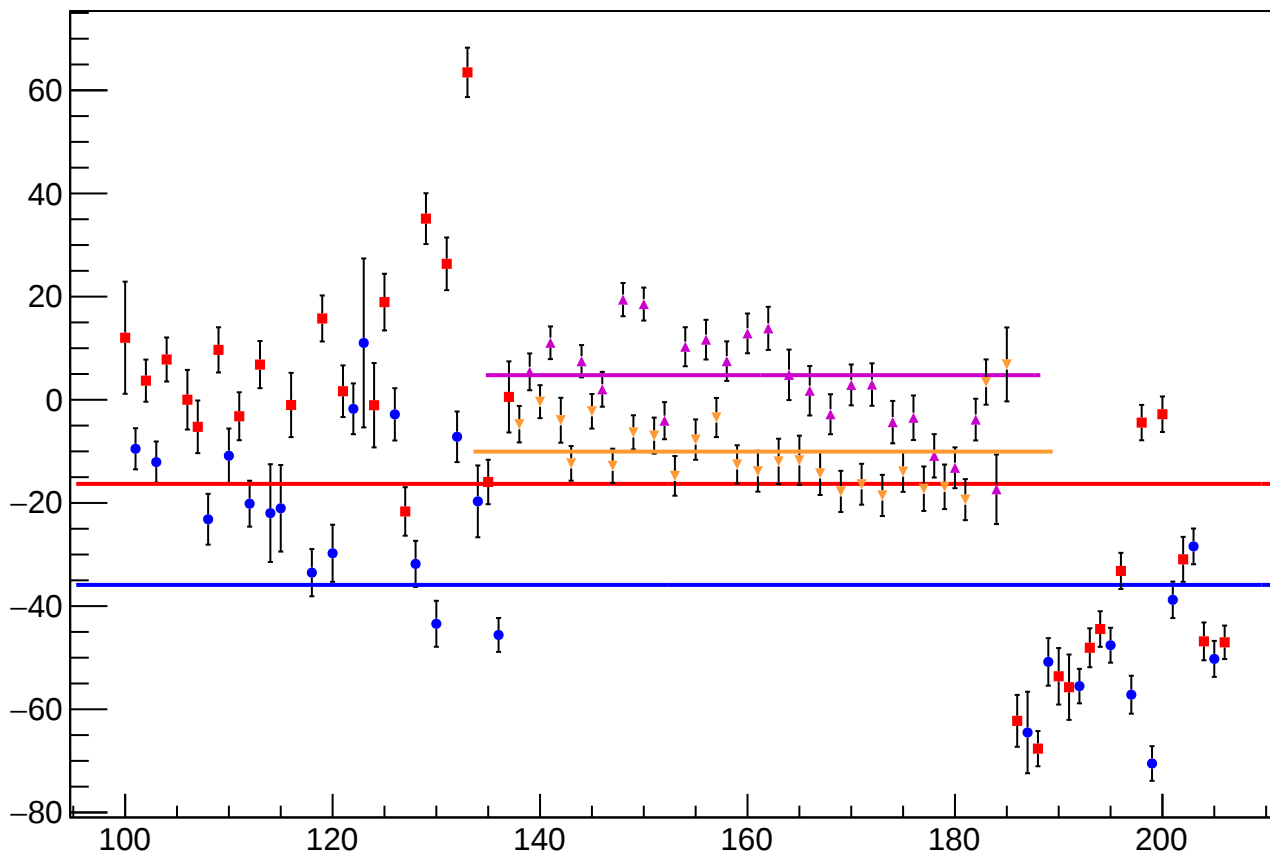
Right: 1497.241 $\pm$ 0.202 χ^2 /NDF: 1527549.0/56

In: 1688.121 $\pm$ 0.220 χ^2 /NDF:1952989.2/48

Out: 1674.821 $\pm$ 0.208 χ^2 /NDF:2044991.2/55

All: 1681.074 $\pm$ 0.151 χ^2 /NDF: 3999908.4/100

diff_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -35.886 ± 0.862 χ^2/NDF : 510.7/25

Left Out: -10.042 ± 0.776 χ^2/NDF : 67.1/24

Right Out: -16.302 ± 0.802 χ^2/NDF : 1475.4/30

Left In: 4.774 ± 0.800 χ^2/NDF : 128.5/22

Left: -2.861 ± 0.557 χ^2/NDF : 372.2/47

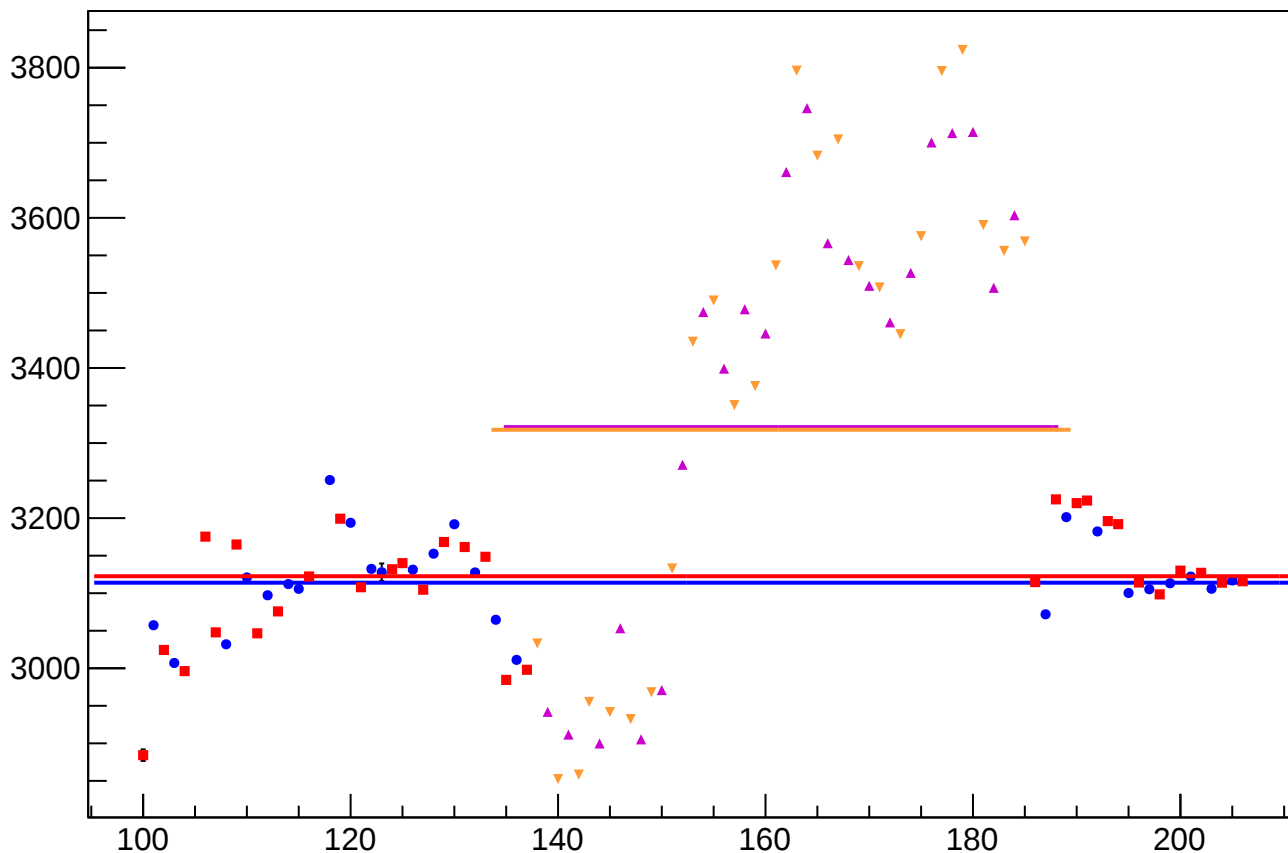
Right: -25.386 ± 0.587 χ^2/NDF : 2262.9/56

In: -14.056 ± 0.587 χ^2/NDF : 1834.1/48

Out: -13.071 ± 0.558 χ^2/NDF : 1574.0/55

All: -13.539 ± 0.404 χ^2/NDF : 3409.5/104

diff_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 3114.005 $\pm$ 0.609 χ^2 /NDF: 9190.8/25

Left Out: 3317.699 $\pm$ 0.549 χ^2 /NDF: 336877.2/24

Right Out: 3122.607 $\pm$ 0.567 χ^2 /NDF: 13766.8/30

Left In: 3321.275 $\pm$ 0.566 χ^2 /NDF: 284334.2/22

Left: 3319.432 $\pm$ 0.394 χ^2 /NDF: 621232.0/47

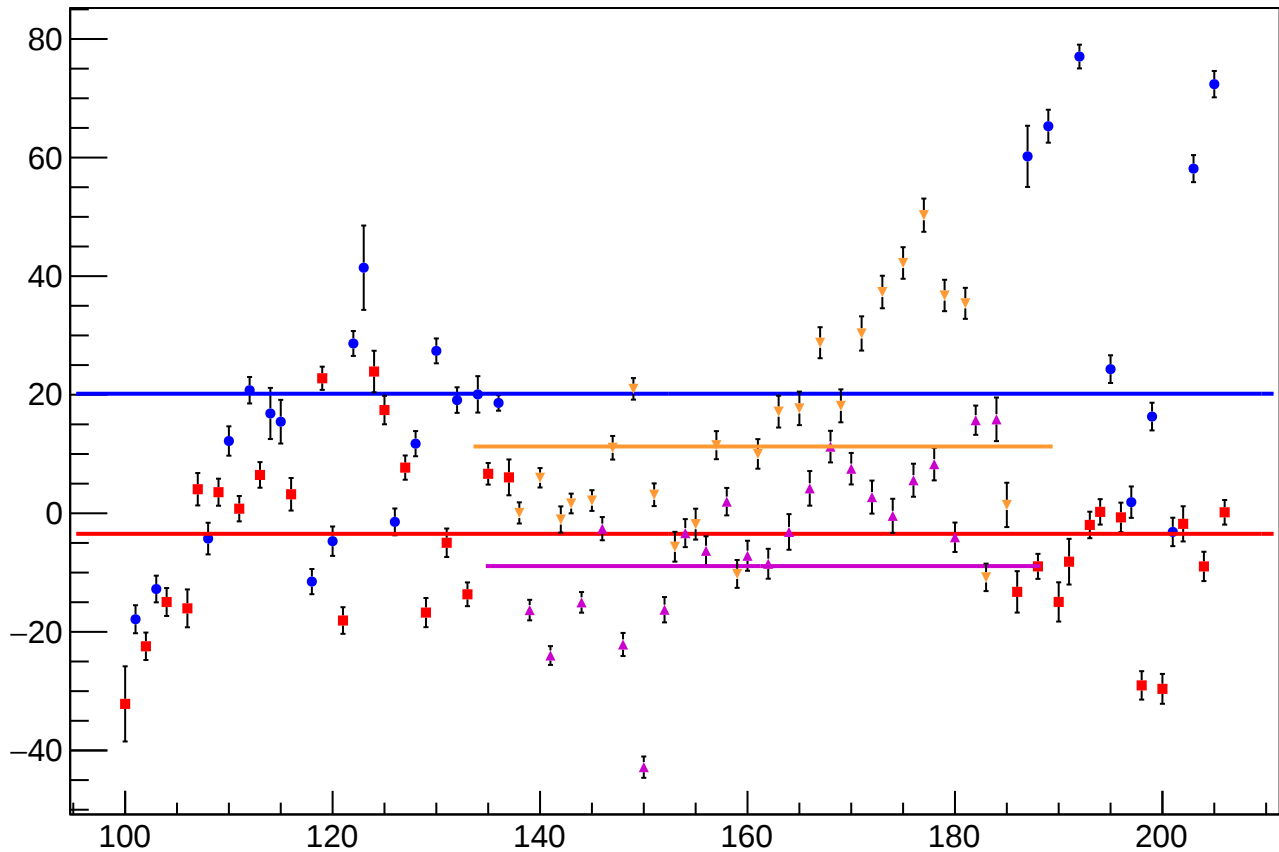
Right: 3118.617 $\pm$ 0.415 χ^2 /NDF: 23064.5/56

In: 3225.285 $\pm$ 0.415 χ^2 /NDF: 355626.0/48

Out: 3223.284 $\pm$ 0.394 χ^2 /NDF: 411767.0/55

All: 3224.234 $\pm$ 0.286 χ^2 /NDF: 767405.2/104

diff_bpm0l01Y_mean vs Slug, Sign Corrected



Left: 1.682 ± 0.329 $\chi^2/\text{NDF}: 3014.7/47$

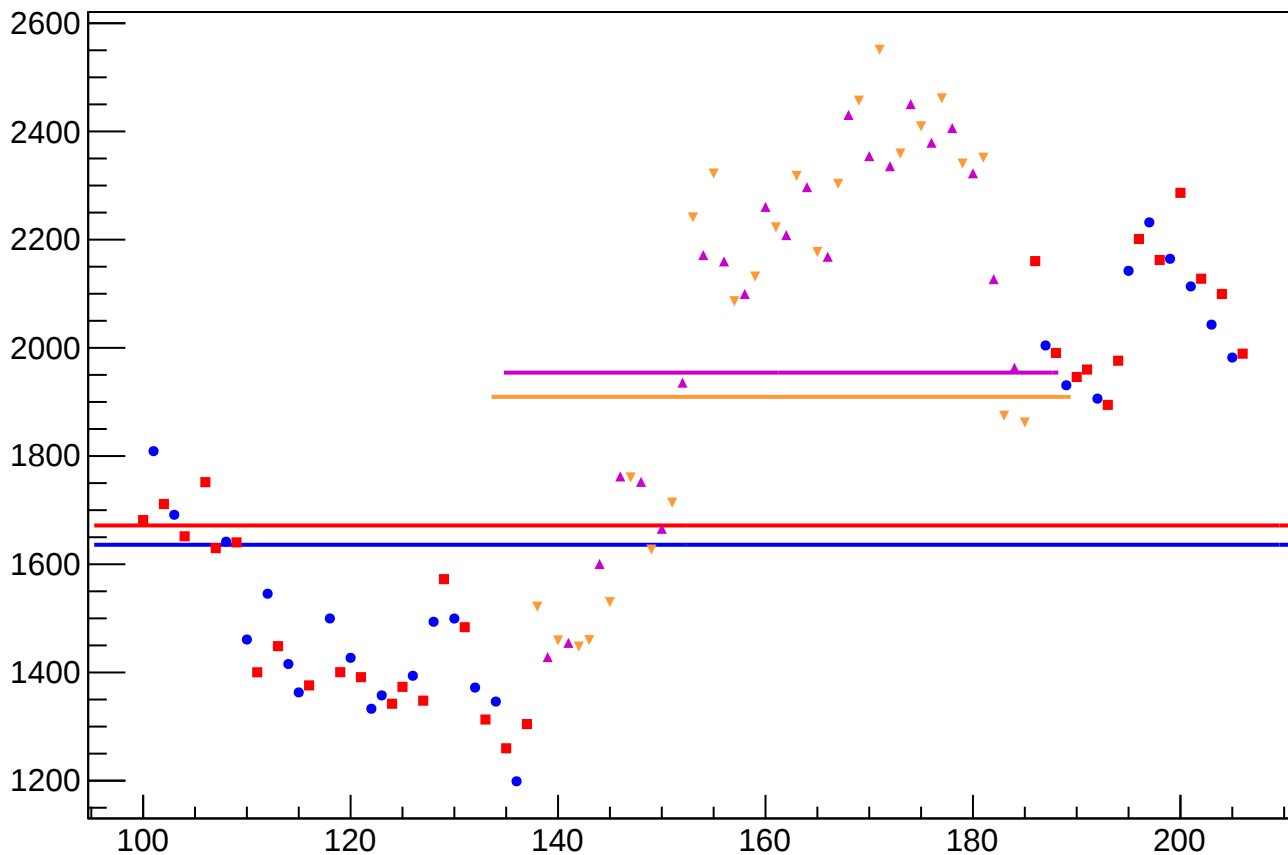
Right: 7.705 ± 0.318 $\chi^2/\text{NDF}: 5446.1/56$

In: 6.099 ± 0.332 $\chi^2/\text{NDF}: 5995.3/48$

Out: 3.628 ± 0.315 $\chi^2/\text{NDF}: 2609.6/55$

All: 4.799 ± 0.229 $\chi^2/\text{NDF}: 8634.0/104$

diff_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 1636.043 $\pm$ 0.327 χ^2 /NDF: 976124.4/25

Left Out: 1909.387 $\pm$ 0.321 χ^2 /NDF:1398498.0/24

Right Out: 1671.730 $\pm$ 0.310 χ^2 /NDF: 1076719.5/30

Left In: 1954.236 $\pm$ 0.338 χ^2 /NDF:1044826.7/22

Left: 1930.697 $\pm$ 0.233 χ^2 /NDF: 2452584.2/47

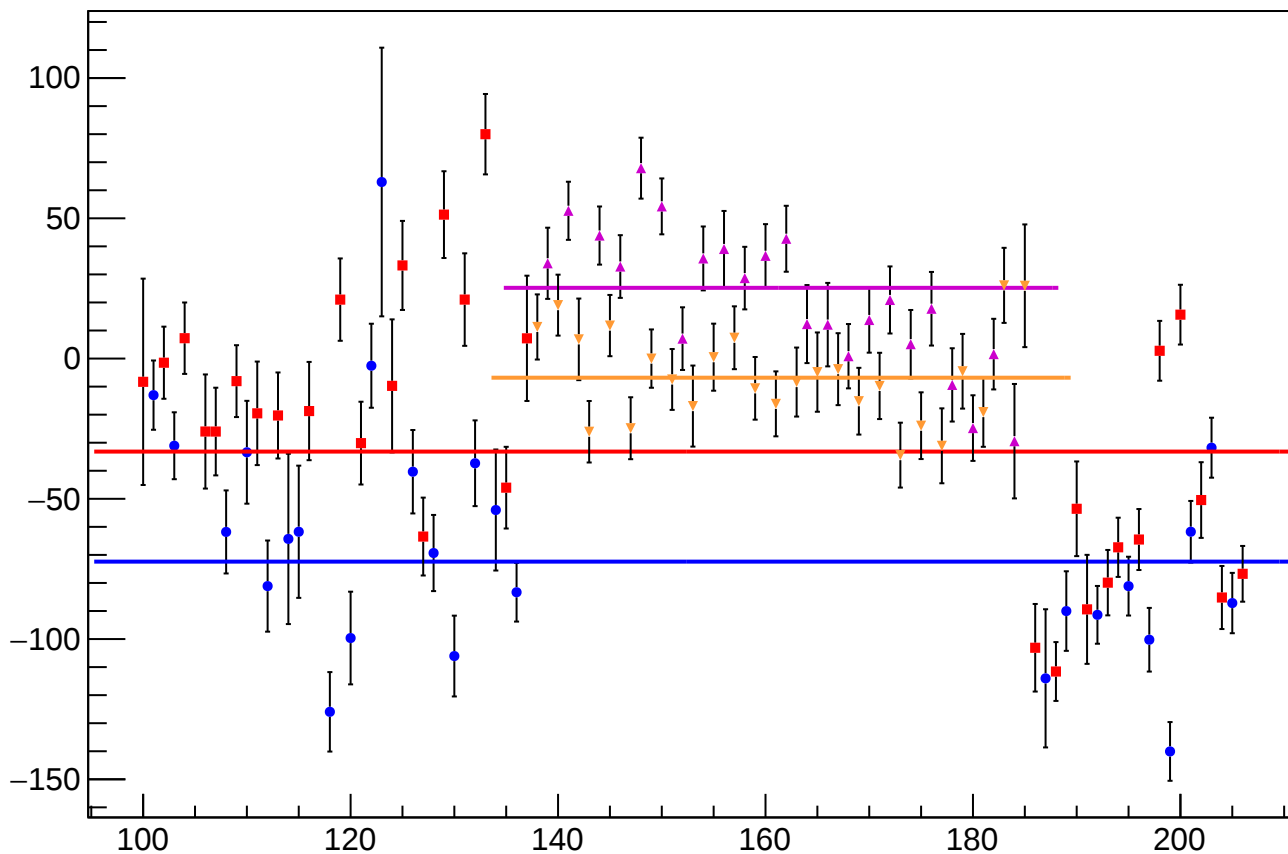
Right: 1654.864 $\pm$ 0.225 χ^2 /NDF: 2059126.8/56

In: 1790.020 $\pm$ 0.235 χ^2 /NDF:2479253.1/48

Out: 1786.127 $\pm$ 0.223 χ^2 /NDF:2759007.5/55

All: 1787.972 $\pm$ 0.162 χ^2 /NDF: 5238405.1/10

diff_bpm0l02X_mean vs Slug, Sign Corrected



Right In: -72.396 $\pm$ 2.679 χ^2/NDF : 178.2/25

Left Out: -6.825 $\pm$ 2.423 χ^2/NDF : 42.3/24

Right Out: -33.164 $\pm$ 2.493 χ^2/NDF : 361.8/30

Left In: 25.215 $\pm$ 2.487 χ^2/NDF : 89.3/22

Left: 8.777 $\pm$ 1.735 χ^2/NDF : 216.8/47

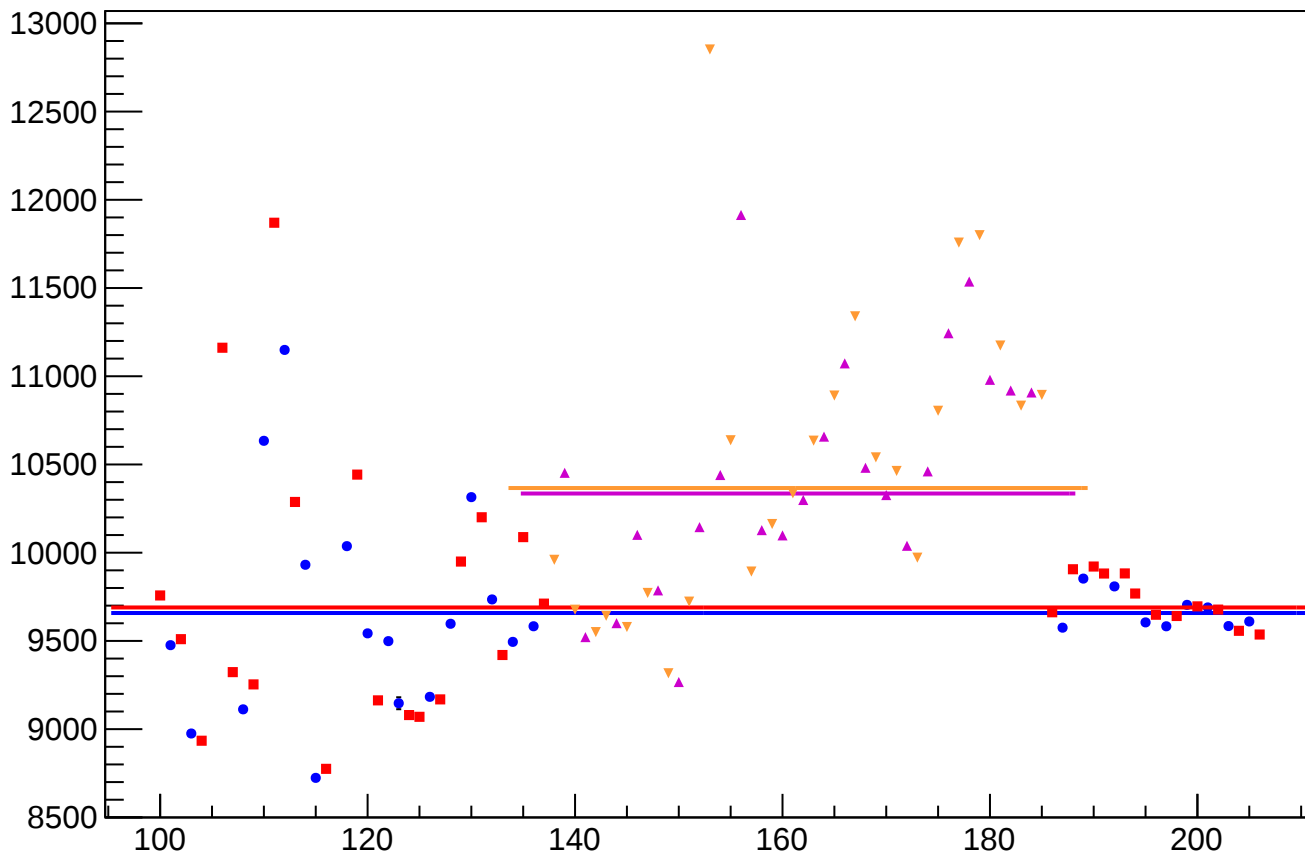
Right: -51.373 $\pm$ 1.825 χ^2/NDF : 655.0/56

In: -19.966 $\pm$ 1.822 χ^2/NDF : 980.7/48

Out: -19.616 $\pm$ 1.737 χ^2/NDF : 461.6/55

All: -19.783 $\pm$ 1.257 χ^2/NDF : 1442.3/104

diff_bpm0l02X_rms vs Slug, Sign Corrected



Right In: 9658.192 $\pm$ 1.894 χ^2 /NDF: 45174.3/25

Left Out: 10366.534 $\pm$ 1.713 χ^2 /NDF: 211402.8/24

Right Out: 9689.624 $\pm$ 1.763 χ^2 /NDF: 80341.1/30

Left In: 10335.399 $\pm$ 1.758 χ^2 /NDF: 127173.0/22

Left: 10351.373 $\pm$ 1.227 χ^2 /NDF: 338736.7/47

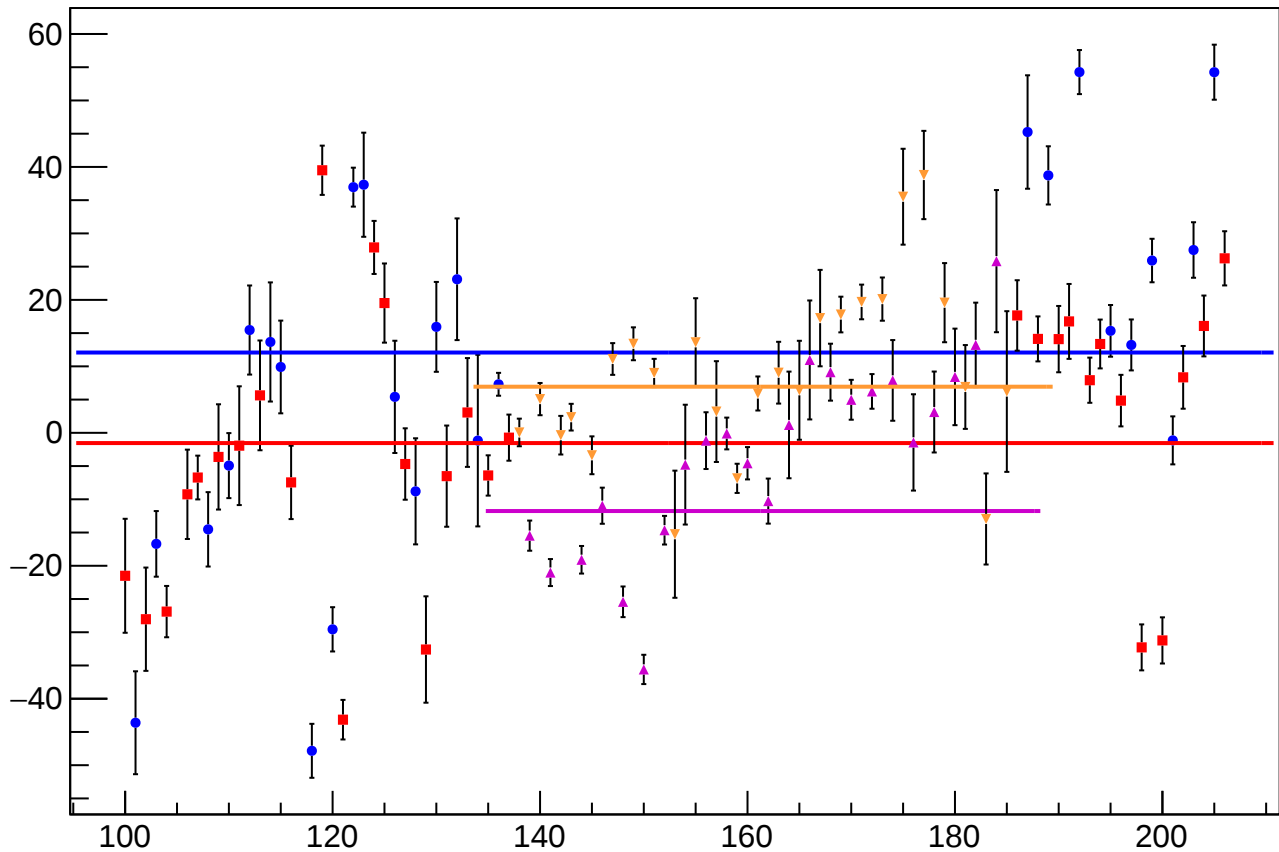
Right: 9675.034 $\pm$ 1.290 χ^2 /NDF: 125663.0/56

In: 10021.940 $\pm$ 1.289 χ^2 /NDF: 241010.3/48

Out: 10037.787 $\pm$ 1.229 χ^2 /NDF: 367581.2/55

All: 10030.242 $\pm$ 0.889 χ^2 /NDF: 608670.7/10

diff_bpm0l02Y_mean vs Slug, Sign Corrected



Right In: 12.080 $\pm$ 0.829 χ^2/NDF : 959.1/25

Left Out: 6.939 $\pm$ 0.639 χ^2/NDF :203.8/24

Right Out: -1.540 $\pm$ 0.796 χ^2/NDF : 769.5/30

Left In: -11.766 $\pm$ 0.648 χ^2/NDF :395.1/22

Left: -2.274 $\pm$ 0.455 χ^2/NDF : 1021.3/47

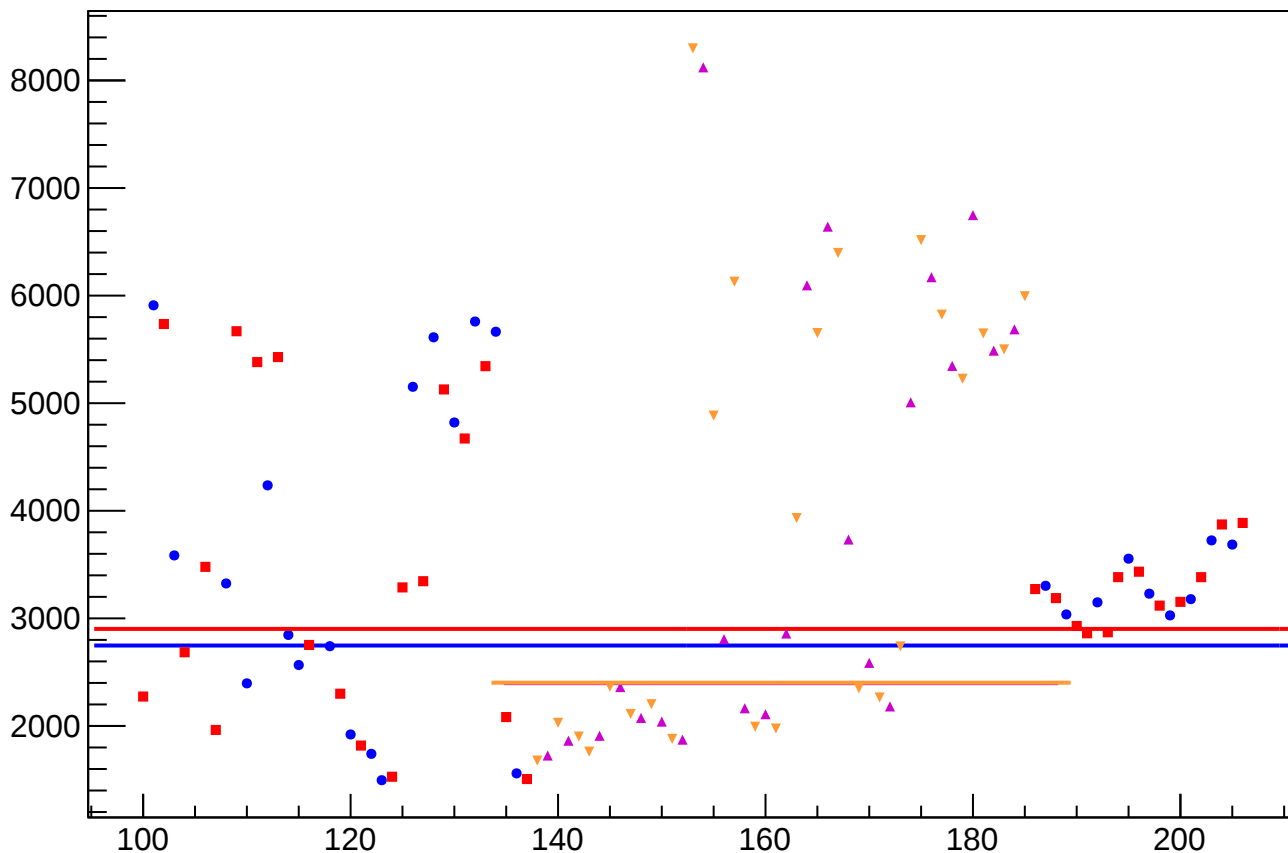
Right: 4.989 $\pm$ 0.574 χ^2/NDF : 1869.2/56

In: -2.716 $\pm$ 0.511 χ^2/NDF :1867.6/48

Out: 3.615 $\pm$ 0.498 χ^2/NDF :1042.4/55

All: 0.529 $\pm$ 0.357 χ^2/NDF : 2988.8/104

diff_bpm0l02Y_rms vs Slug, Sign Corrected



Right In: 2747.710 $\pm$ 0.586 χ^2/NDF : 3234880.1/25

Left Out: 2402.359 $\pm$ 0.452 χ^2/NDF : 6345982.8/24

Right Out: 2902.181 $\pm$ 0.563 χ^2/NDF : 2877857.4/30

Left In: 2397.701 $\pm$ 0.458 χ^2/NDF : 5398920.1/22

Left: 2400.065 $\pm$ 0.322 χ^2/NDF : 11744955.3/47

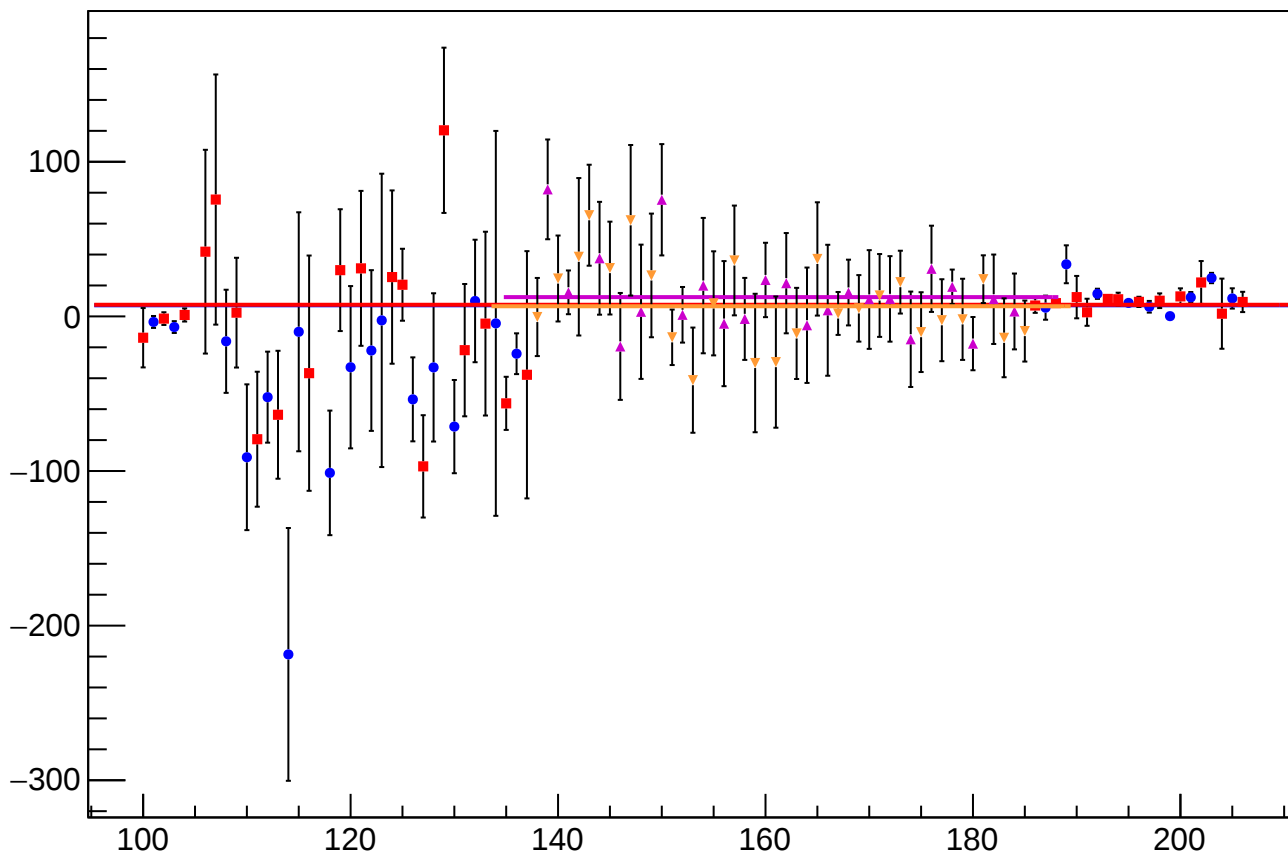
Right: 2828.128 $\pm$ 0.406 χ^2/NDF : 6148884.5/56

In: 2530.530 $\pm$ 0.361 χ^2/NDF : 8854997.1/48

Out: 2598.272 $\pm$ 0.352 χ^2/NDF : 9703845.2/55

All: 2565.250 $\pm$ 0.252 χ^2/NDF : 18576876.8/111

diff_bpm0l03X_mean vs Slug, Sign Corrected



Right In: 7.175 ± 1.167 χ^2/NDF : 109.9/25

Left Out: 6.560 ± 5.077 χ^2/NDF : 16.8/24

Right Out: 7.523 ± 1.217 χ^2/NDF : 52.5/30

Left In: 12.469 ± 5.025 χ^2/NDF : 15.4/22

Left: 9.545 ± 3.572 χ^2/NDF : 32.8/47

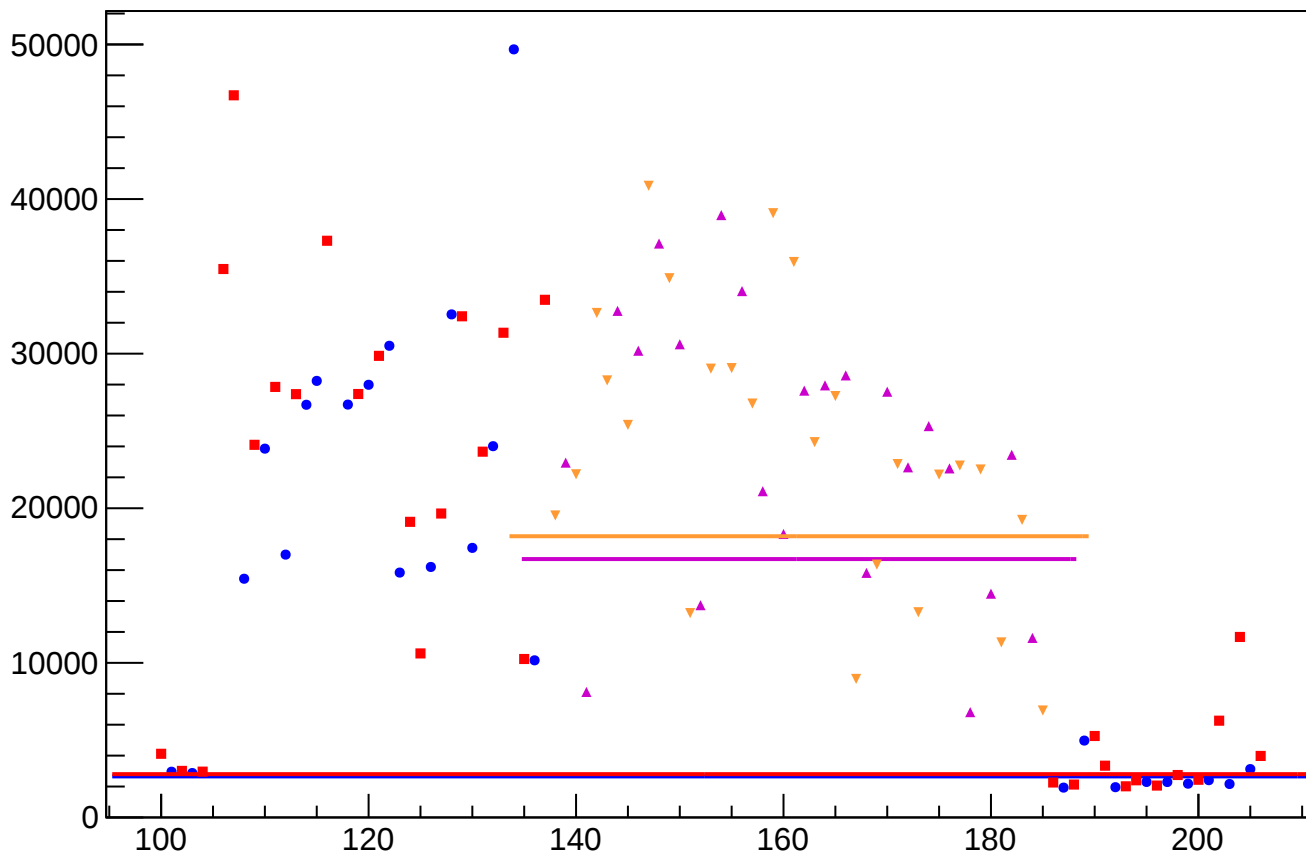
Right: 7.342 ± 0.842 χ^2/NDF : 162.5/56

In: 7.446 ± 1.137 χ^2/NDF : 126.4/48

Out: 7.471 ± 1.183 χ^2/NDF : 69.3/55

All: 7.458 ± 0.820 χ^2/NDF : 195.7/104

diff_bpm0l03X_rms vs Slug, Sign Corrected



Right In: 2655.506 ± 0.825 $\chi^2/\text{NDF}: 6978915.3/25$

Left Out: 18190.387 ± 3.590 $\chi^2/\text{NDF}: 5261328.5/24$

Right Out: 2801.746 ± 0.861 $\chi^2/\text{NDF}: 9054611.8/30$

Left In: 16713.653 ± 3.553 $\chi^2/\text{NDF}: 6194178.8/22$

Left: 17444.397 ± 2.526 $\chi^2/\text{NDF}: 11540970.2/47$

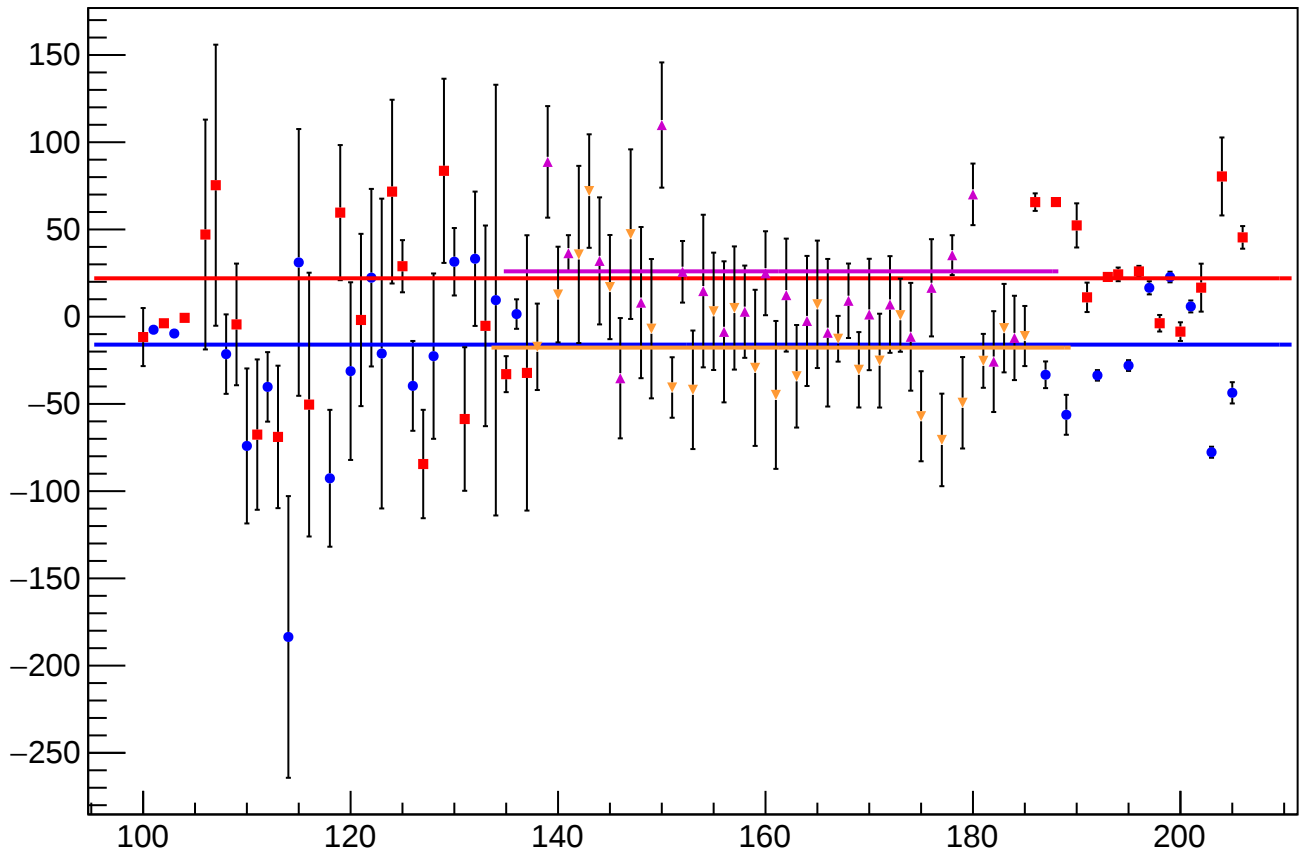
Right: 2725.578 ± 0.596 $\chi^2/\text{NDF}: 16048569.4/56$

In: 3375.142 ± 0.804 $\chi^2/\text{NDF}: 28023736.9/48$

Out: 3637.754 ± 0.837 $\chi^2/\text{NDF}: 31689308.1/55$

All: 3501.191 ± 0.580 $\chi^2/\text{NDF}: 59764257.7/100$

diff_bpm0l03Y_mean vs Slug, Sign Corrected



Right In: -16.009 ± 1.028 χ^2/NDF : 786.4/25

Left Out: -17.717 ± 4.974 χ^2/NDF : 27.2/24

Right Out: 22.005 ± 1.071 χ^2/NDF : 638.8/30

Left In: 25.991 ± 4.789 χ^2/NDF : 32.6/22

Left: 4.967 ± 3.450 χ^2/NDF : 99.8/47

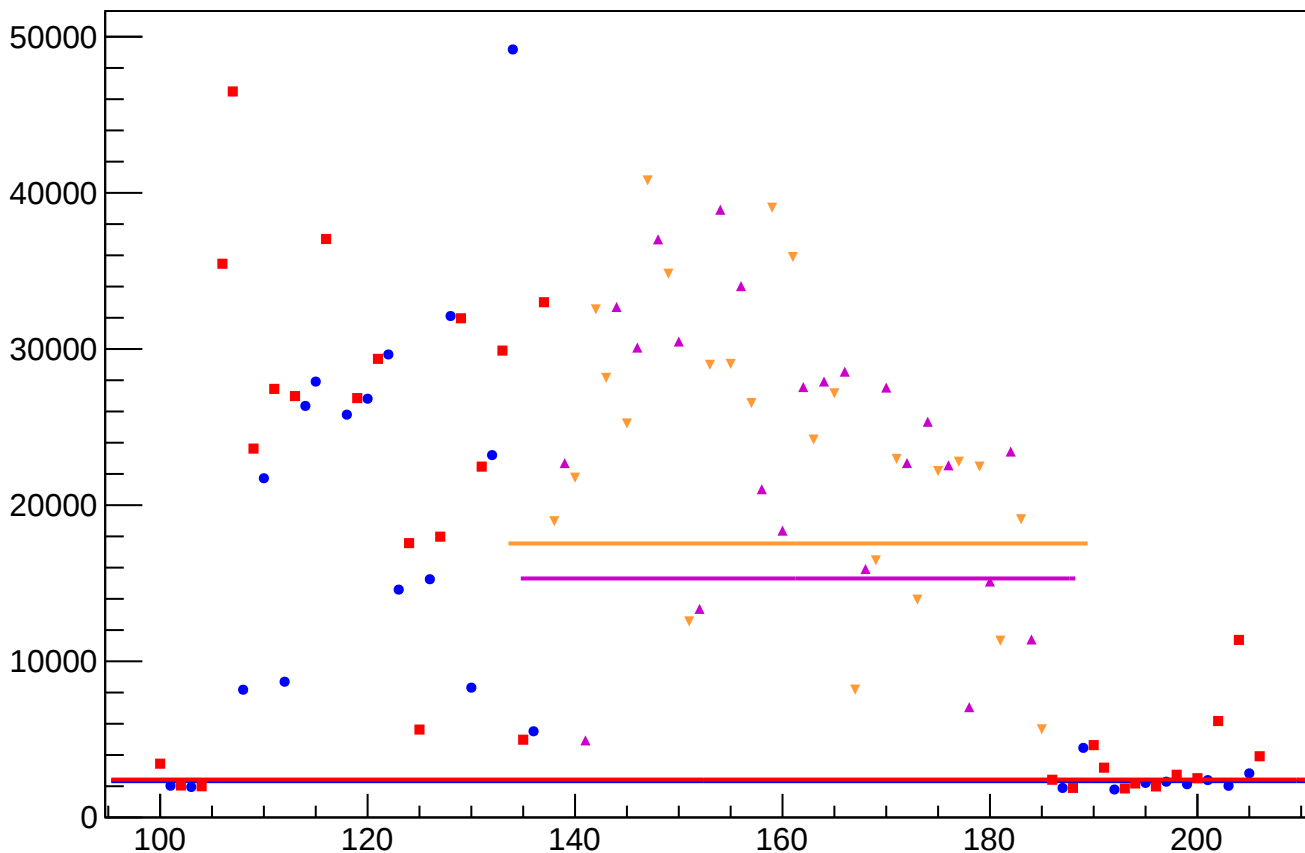
Right: 2.232 ± 0.742 χ^2/NDF : 2081.0/56

In: -14.158 ± 1.005 χ^2/NDF : 892.5/48

Out: 20.246 ± 1.047 χ^2/NDF : 726.9/55

All: 2.353 ± 0.725 χ^2/NDF : 2181.4/104

diff_bpm0l03Y_rms vs Slug, Sign Corrected



Right In: 2324.699 $\pm$ 0.727 χ^2/NDF : 5809094.5/25

Left Out: 17546.173 $\pm$ 3.517 χ^2/NDF :5902620.4/24

Right Out: 2426.685 $\pm$ 0.757 χ^2/NDF : 8747159.2/30

Left In: 15305.311 $\pm$ 3.386 χ^2/NDF :7721177.0/22

Left: 16383.216 $\pm$ 2.439 χ^2/NDF : 13834445.4/47

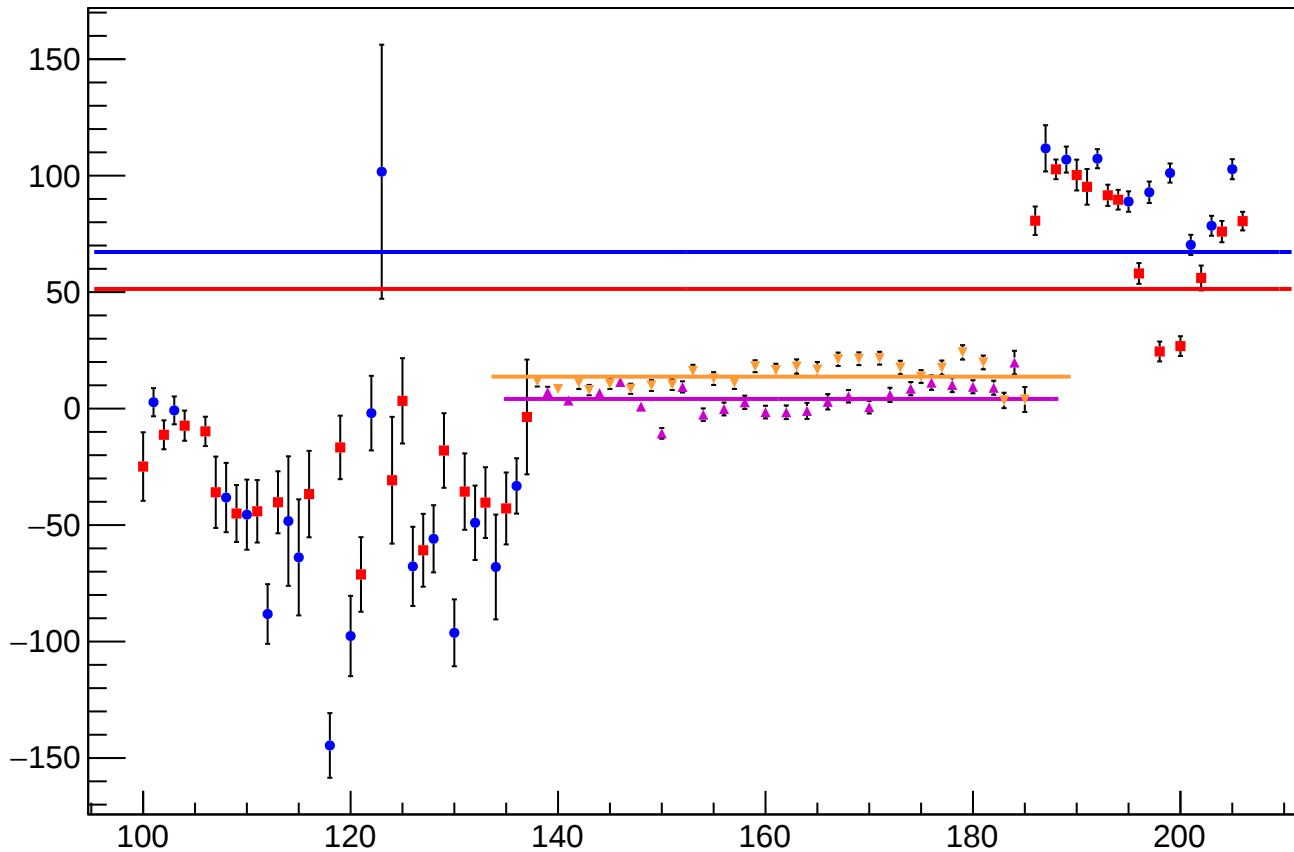
Right: 2373.637 $\pm$ 0.524 χ^2/NDF : 14565694.4/56

In: 2896.781 $\pm$ 0.711 χ^2/NDF :27577071.6/48

Out: 3096.035 $\pm$ 0.740 χ^2/NDF :32309656.1/55

All: 2992.403 $\pm$ 0.513 χ^2/NDF : 59924429.6/100

diff_bpm0l04X_mean vs Slug, Sign Corrected



Right In: 67.230 $\pm$ 1.368 χ^2 /NDF: 1676.8/25

Left Out: 13.710 $\pm$ 0.535 χ^2 /NDF:89.9/24

Right Out: 51.366 $\pm$ 1.219 χ^2 /NDF: 1372.3/30

Left In: 4.141 $\pm$ 0.555 χ^2 /NDF:111.7/22

Left: 9.097 $\pm$ 0.385 χ^2 /NDF: 355.6/47

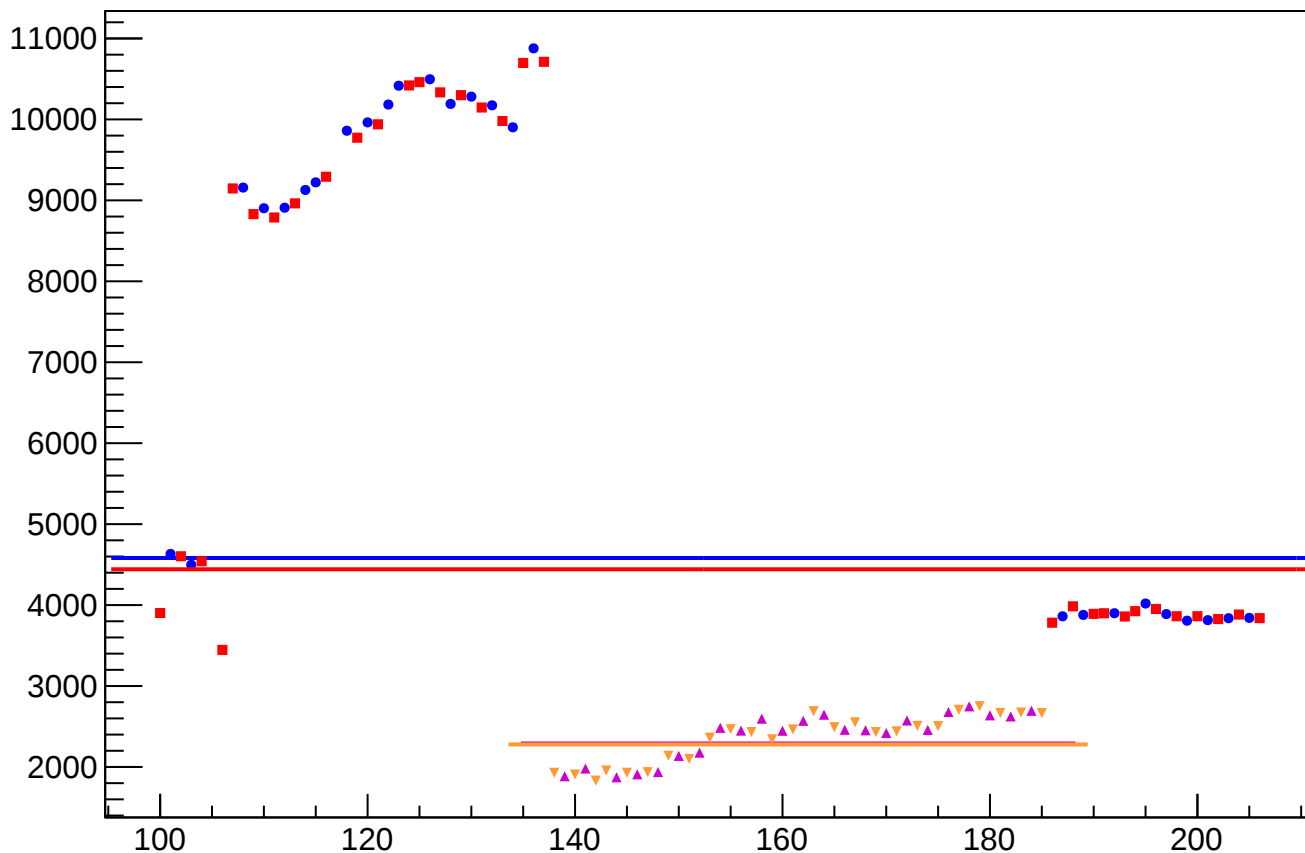
Right: 58.389 $\pm$ 0.910 χ^2 /NDF: 3124.1/56

In: 13.056 $\pm$ 0.514 χ^2 /NDF:3615.8/48

Out: 19.797 $\pm$ 0.490 χ^2 /NDF:2262.3/55

All: 16.588 $\pm$ 0.355 χ^2 /NDF: 5968.2/104

diff_bpm0l04X_rms vs Slug, Sign Corrected



Right In: 4581.782+/-0.967 χ^2/NDF : 3666604.7/25

Left Out: 2278.115+/-0.378 χ^2/NDF : 607109.4/24

Right Out: 4442.482+/-0.862 χ^2/NDF : 3784403.4/30

Left In: 2290.461+/-0.392 χ^2/NDF : 590272.1/22

Left: 2284.067+/-0.272 χ^2/NDF : 1197894.4/47

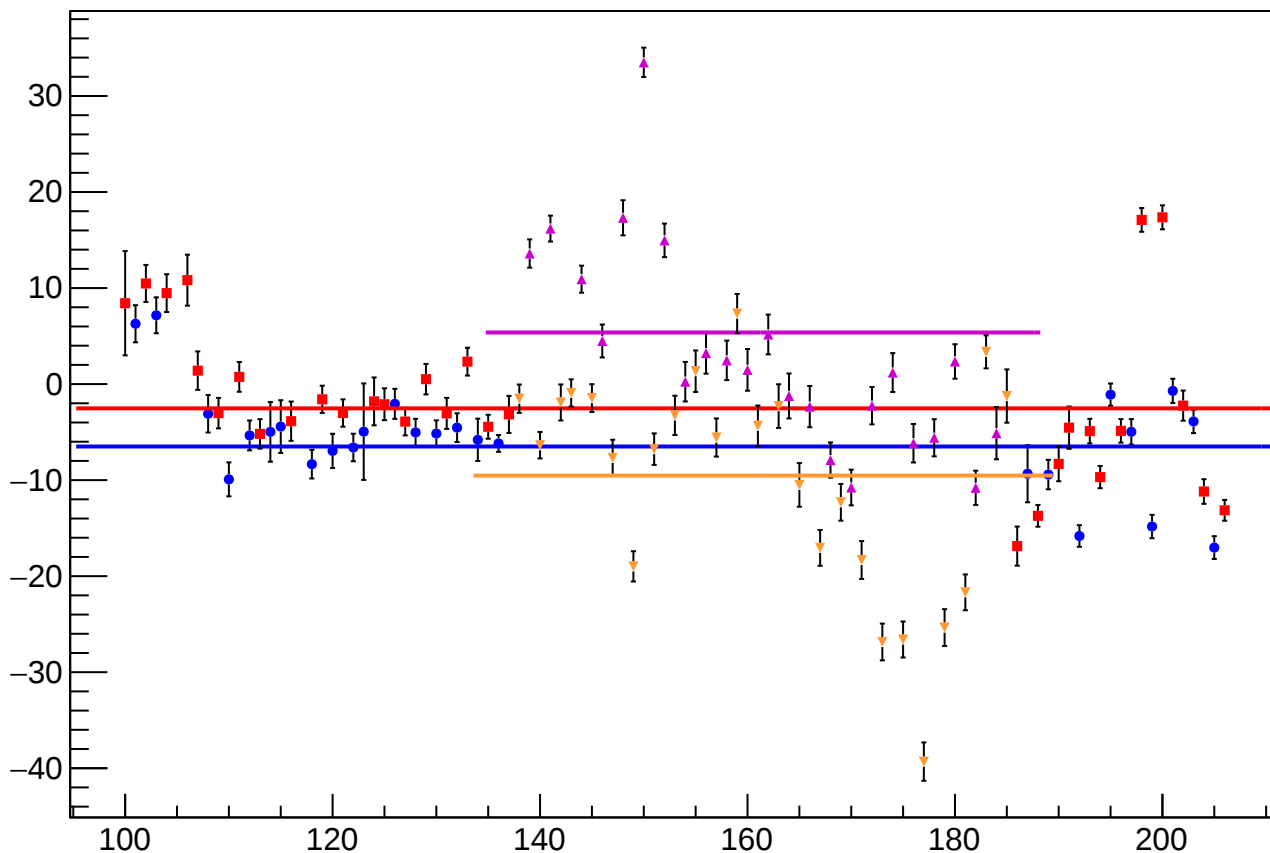
Right: 4504.149+/-0.643 χ^2/NDF : 7462571.8/56

In: 2614.253+/-0.364 χ^2/NDF : 9077539.2/48

Out: 2627.998+/-0.347 χ^2/NDF : 9678030.7/55

All: 2621.454+/-0.251 χ^2/NDF : 18756318.9/1

diff_bpm0l04Y_mean vs Slug, Sign Corrected



Right In: -6.499 $\pm$ 0.291 χ^2/NDF : 366.7/25

Left Out: -9.524 $\pm$ 0.365 χ^2/NDF :884.1/24

Right Out: -2.528 $\pm$ 0.274 χ^2/NDF : 993.8/30

Left In: 5.372 $\pm$ 0.383 χ^2/NDF :869.8/22

Left: -2.437 $\pm$ 0.264 χ^2/NDF : 2547.3/47

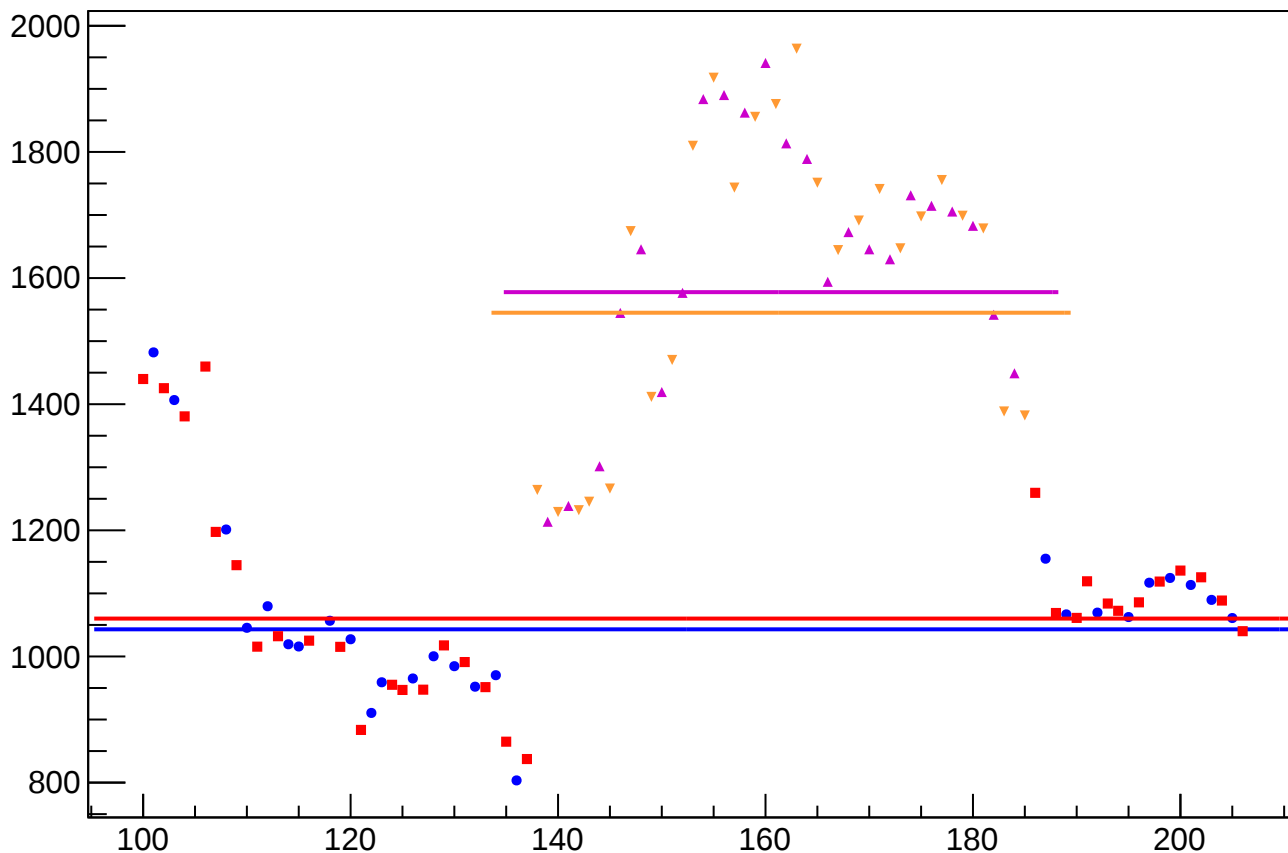
Right: -4.393 $\pm$ 0.200 χ^2/NDF : 1459.2/56

In: -2.151 $\pm$ 0.232 χ^2/NDF :1845.7/48

Out: -5.052 $\pm$ 0.219 χ^2/NDF :2113.1/55

All: -3.683 $\pm$ 0.159 χ^2/NDF : 4041.5/104

diff_bpm0l04Y_rms vs Slug, Sign Corrected



Right In: 1043.026 $\pm$ 0.206 χ^2 /NDF: 410276.1/25

Left Out: 1545.053 $\pm$ 0.258 χ^2 /NDF: 842722.3/24

Right Out: 1060.065 $\pm$ 0.194 χ^2 /NDF: 387613.2/30

Left In: 1577.685 $\pm$ 0.271 χ^2 /NDF: 625406.2/22

Left: 1560.578 $\pm$ 0.187 χ^2 /NDF: 1475743.3/47

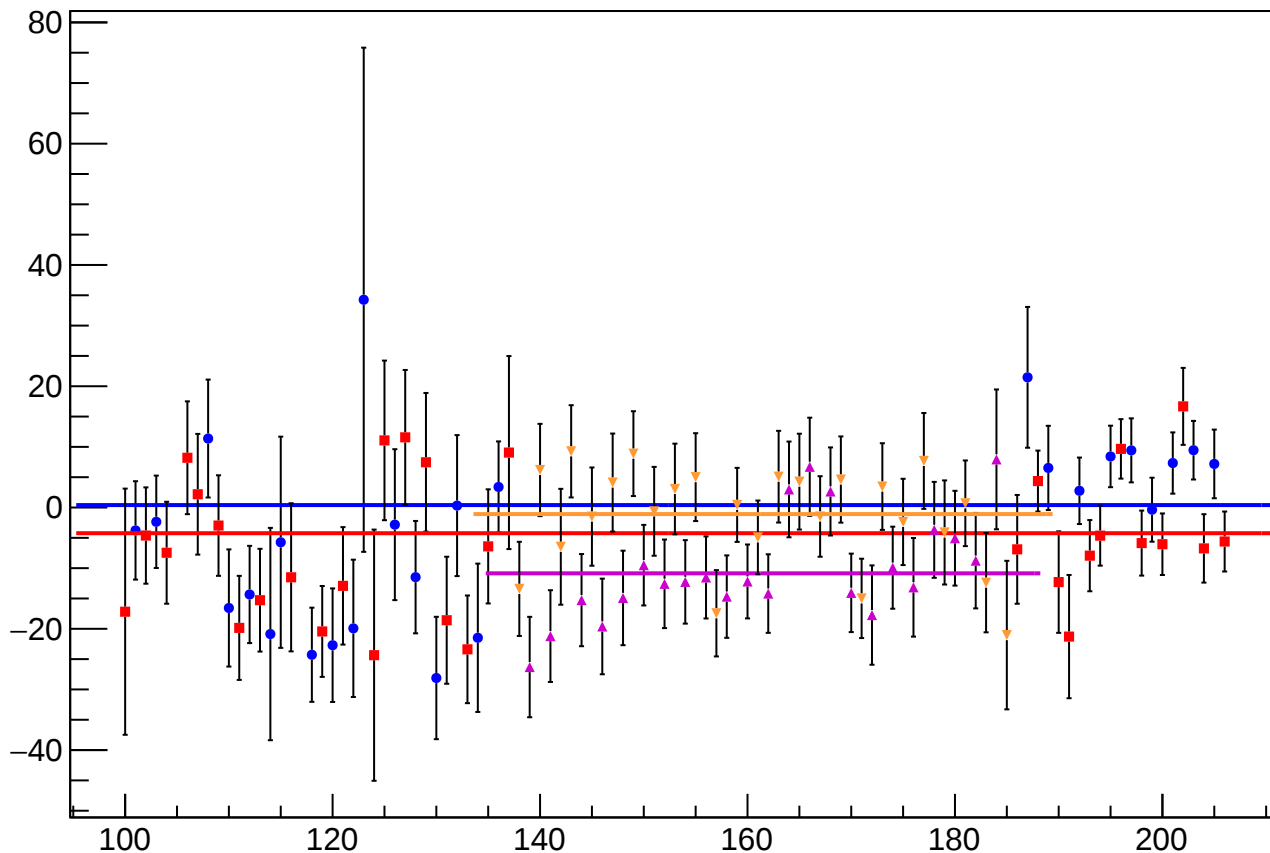
Right: 1052.060 $\pm$ 0.141 χ^2 /NDF: 801522.4/56

In: 1238.859 $\pm$ 0.164 χ^2 /NDF: 3506882.5/48

Out: 1235.009 $\pm$ 0.155 χ^2 /NDF: 3490465.8/55

All: 1236.826 $\pm$ 0.113 χ^2 /NDF: 6997639.8/10

diff_bpm0l05X_mean vs Slug, Sign Corrected



Right In: 0.402 $\pm$ 1.479 χ^2/NDF : 59.4/25

Left Out: -1.083 $\pm$ 1.487 χ^2/NDF : 27.5/24

Right Out: -4.236 $\pm$ 1.348 χ^2/NDF : 52.8/30

Left In: -10.851 $\pm$ 1.542 χ^2/NDF : 24.4/22

Left: -5.792 $\pm$ 1.070 χ^2/NDF : 72.7/47

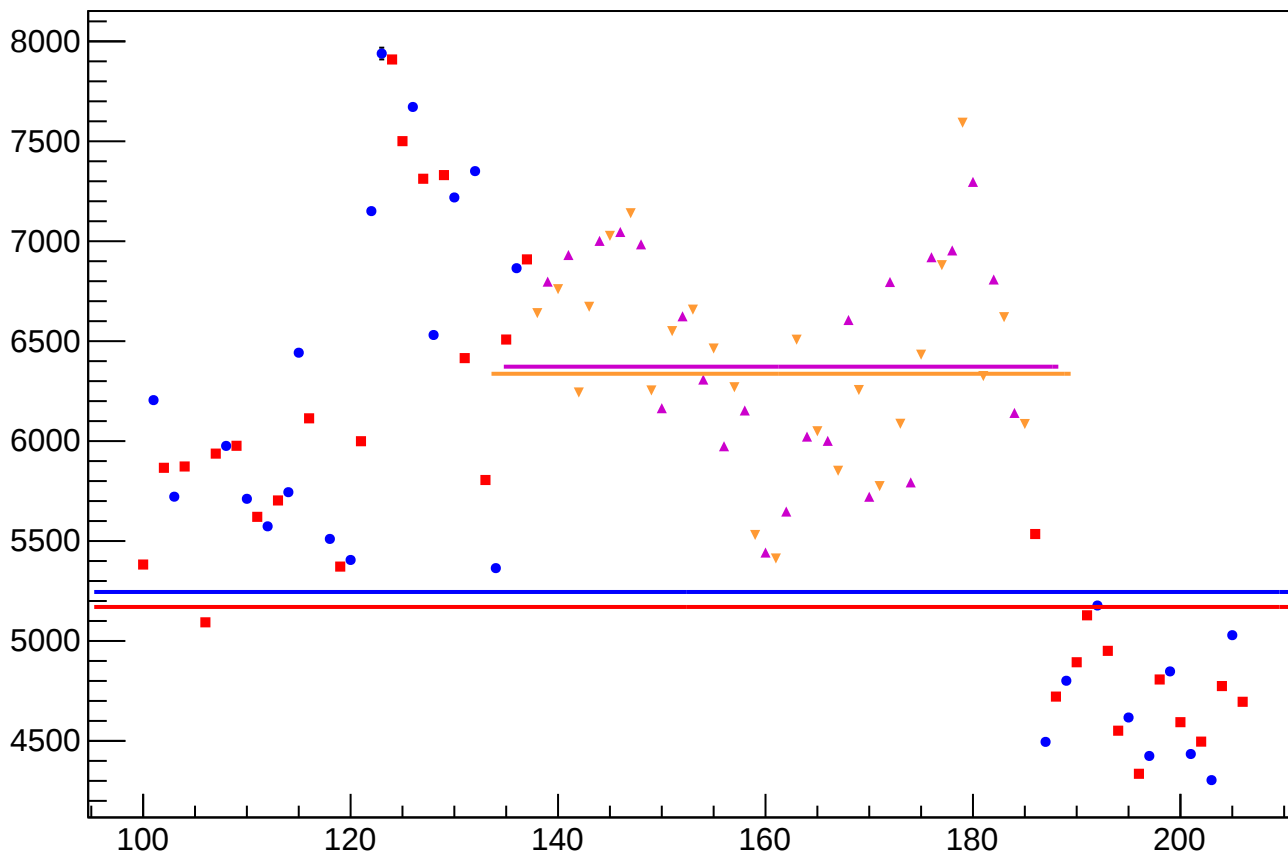
Right: -2.132 $\pm$ 0.996 χ^2/NDF : 117.6/56

In: -4.991 $\pm$ 1.067 χ^2/NDF : 111.5/48

Out: -2.814 $\pm$ 0.999 χ^2/NDF : 82.8/55

All: -3.830 $\pm$ 0.729 χ^2/NDF : 196.6/104

diff_bpm0l05X_rms vs Slug, Sign Corrected



Right In: 5245.122 ± 1.046 $\chi^2/\text{NDF}: 721517.8/25$

Left Out: 6336.876 ± 1.052 $\chi^2/\text{NDF}: 222912.5/24$

Right Out: 5170.157 ± 0.953 $\chi^2/\text{NDF}: 647669.0/30$

Left In: 6372.349 ± 1.090 $\chi^2/\text{NDF}: 247257.0/22$

Left: 6353.974 ± 0.757 $\chi^2/\text{NDF}: 470718.0/47$

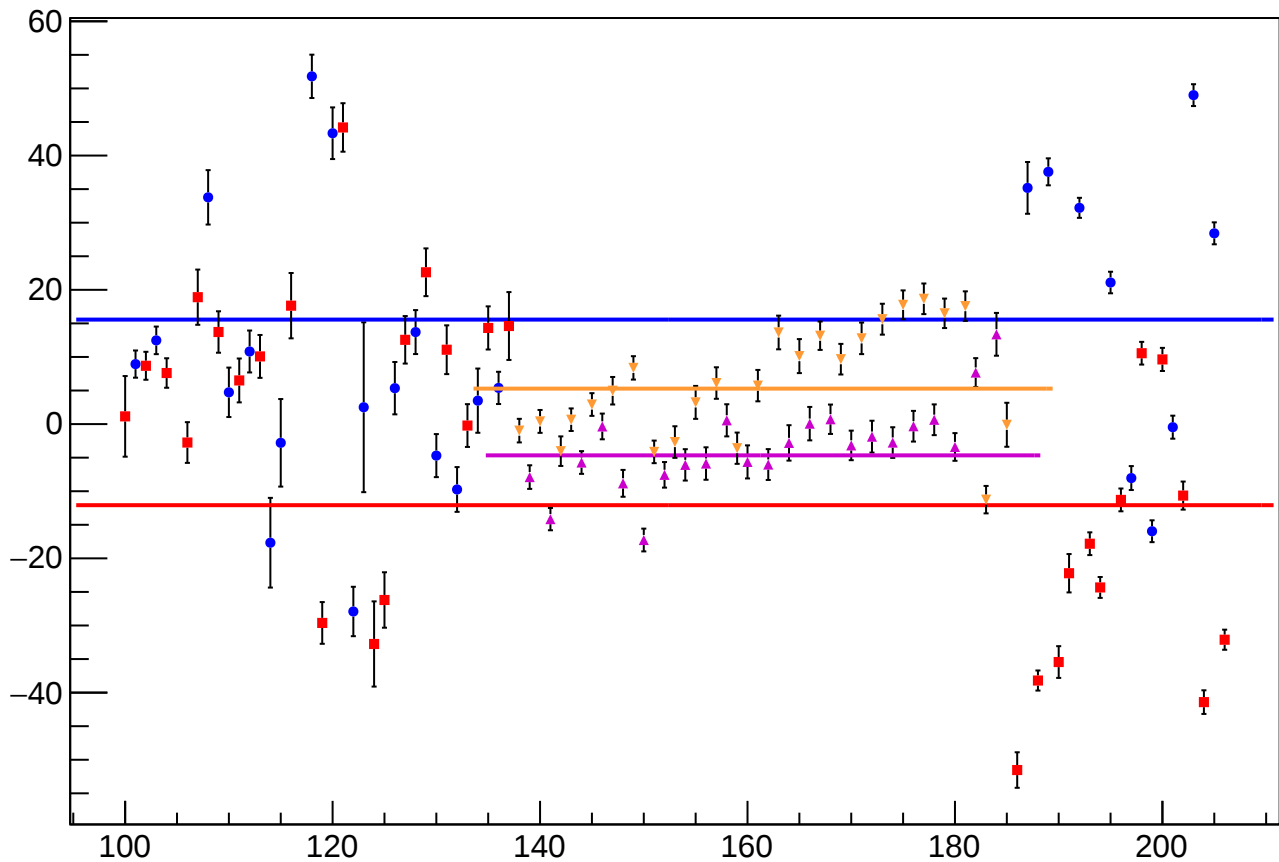
Right: 5204.170 ± 0.704 $\chi^2/\text{NDF}: 1371994.1/56$

In: 5785.329 ± 0.755 $\chi^2/\text{NDF}: 1525615.9/48$

Out: 5696.294 ± 0.706 $\chi^2/\text{NDF}: 1546445.4/55$

All: 5737.860 ± 0.516 $\chi^2/\text{NDF}: 3079482.7/10$

diff_bpm0l05Y_mean vs Slug, Sign Corrected



Right In: 15.566 ± 0.471 χ^2/NDF : 1928.8/25

Left Out: 5.284 ± 0.421 χ^2/NDF : 366.1/24

Right Out: -12.079 ± 0.431 χ^2/NDF : 2535.6/30

Left In: -4.657 ± 0.443 χ^2/NDF : 196.5/22

Left: 0.574 ± 0.305 χ^2/NDF : 827.2/47

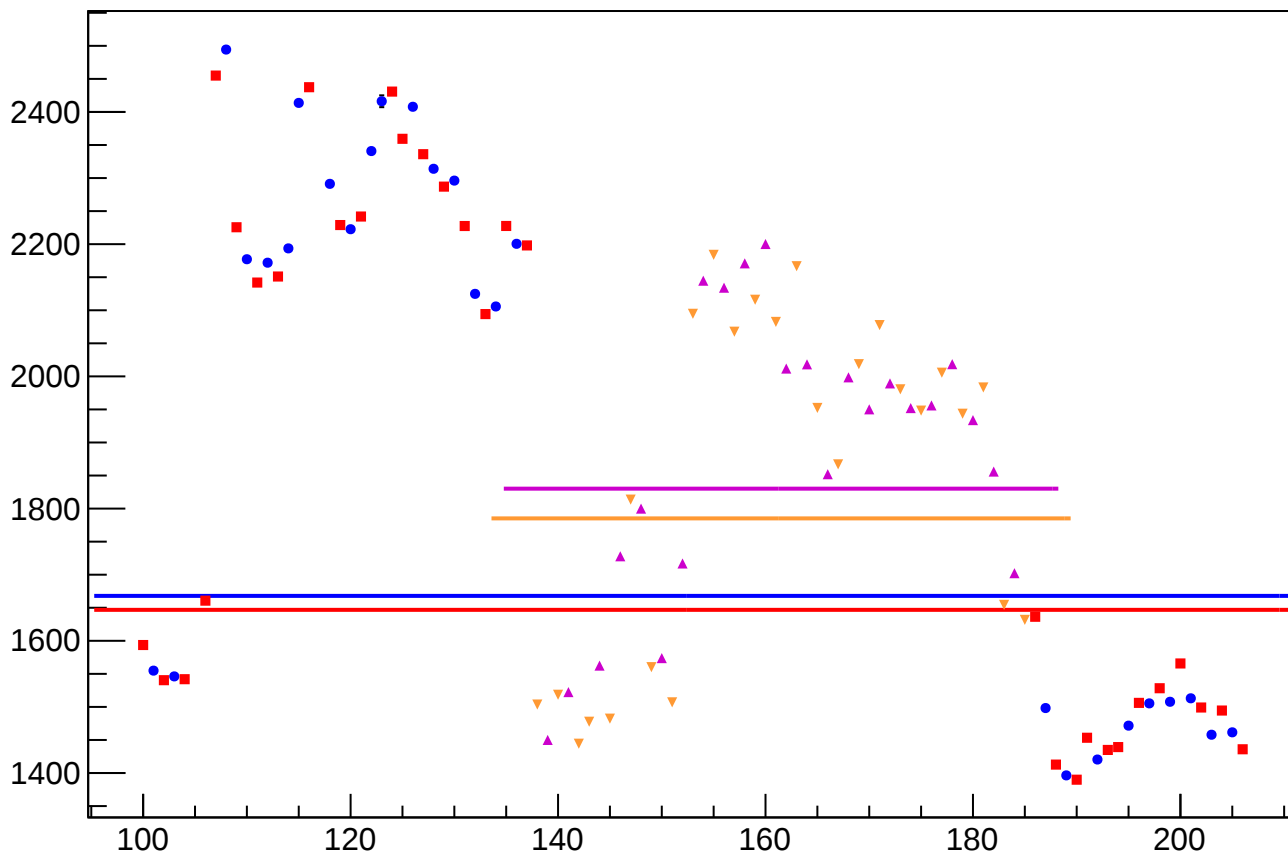
Right: 0.508 ± 0.318 χ^2/NDF : 6340.0/56

In: 4.841 ± 0.323 χ^2/NDF : 3102.6/48

Out: -3.193 ± 0.301 χ^2/NDF : 3733.3/55

All: 0.543 ± 0.220 χ^2/NDF : 7167.2/104

diff_bpm0l05Y_rms vs Slug, Sign Corrected



Right In: 1667.958 $\pm$ 0.333 χ^2 /NDF: 1037374.9/25

Left Out: 1785.179 $\pm$ 0.297 χ^2 /NDF: 750628.1/24

Right Out: 1646.840 $\pm$ 0.305 χ^2 /NDF: 1082353.5/30

Left In: 1830.160 $\pm$ 0.313 χ^2 /NDF: 508391.9/22

Left: 1806.491 $\pm$ 0.216 χ^2 /NDF: 1269853.4/47

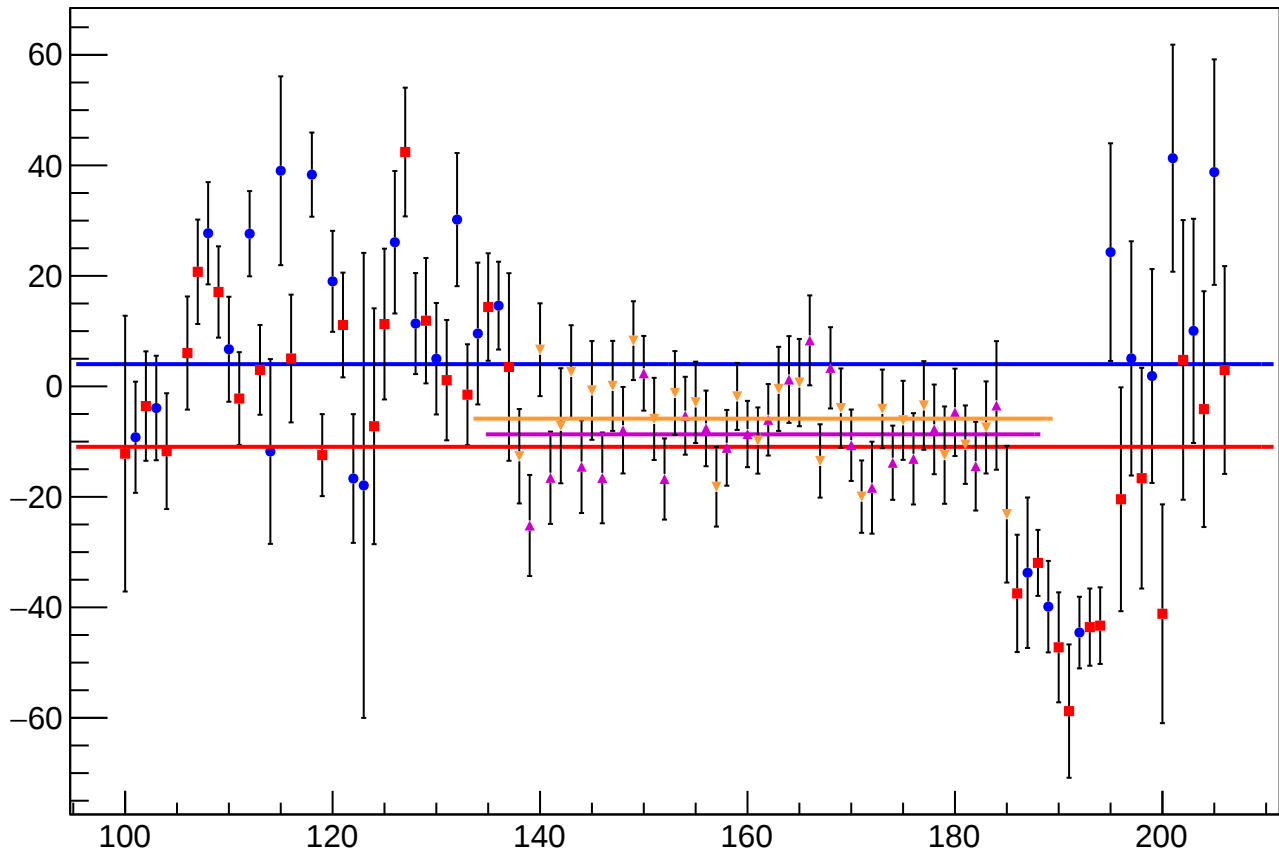
Right: 1656.455 $\pm$ 0.225 χ^2 /NDF: 2121917.4/56

In: 1753.980 $\pm$ 0.228 χ^2 /NDF: 1671504.3/48

Out: 1717.641 $\pm$ 0.213 χ^2 /NDF: 1938568.6/55

All: 1734.536 $\pm$ 0.156 χ^2 /NDF: 3623629.2/100

diff_bpm0l06X_mean vs Slug, Sign Corrected



Right In: 4.021 $\pm$ 2.133 χ^2/NDF : 159.5/25

Left Out: -5.840 $\pm$ 1.518 χ^2/NDF : 23.3/24

Right Out: -10.942 $\pm$ 1.861 χ^2/NDF : 169.8/30

Left In: -8.683 $\pm$ 1.571 χ^2/NDF : 21.9/22

Left: -7.214 $\pm$ 1.092 χ^2/NDF : 47.0/47

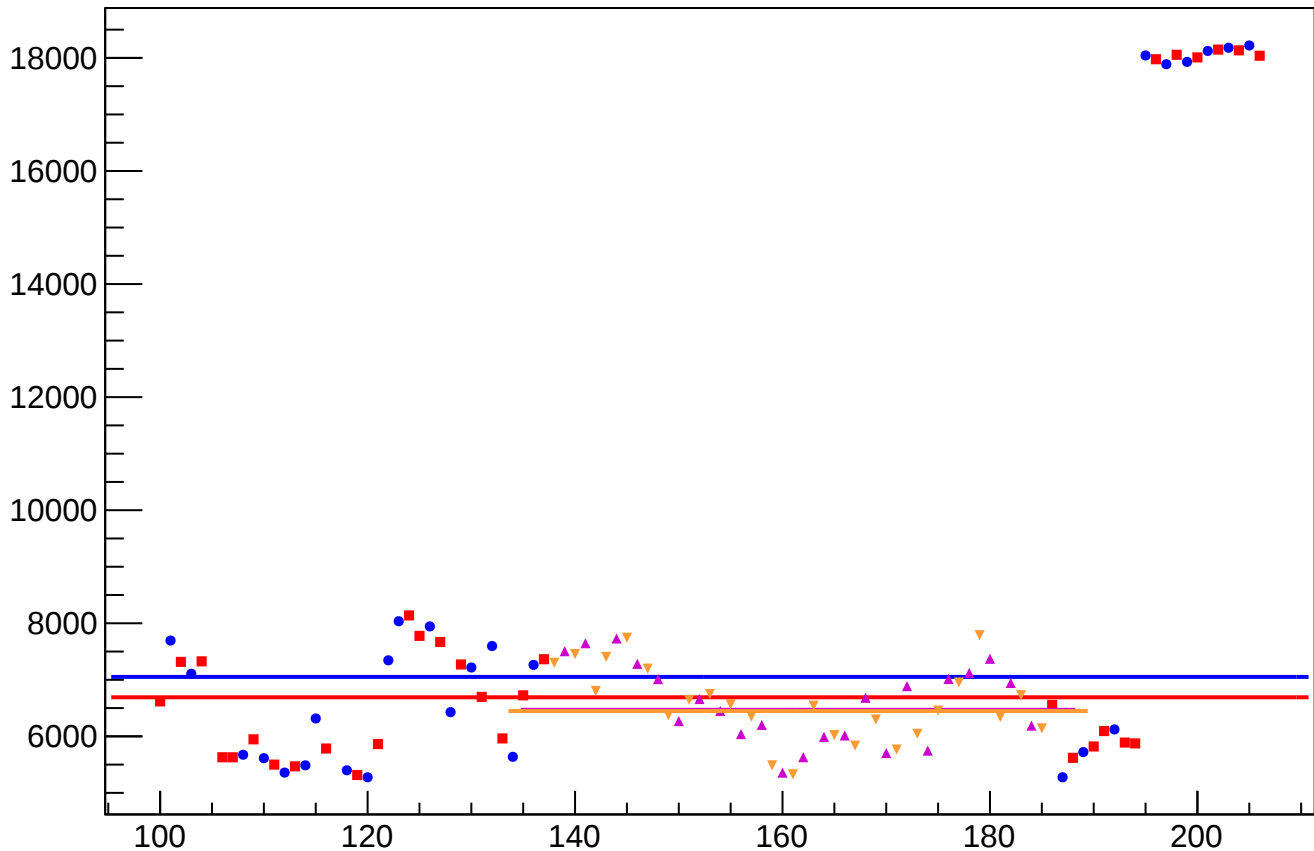
Right: -4.475 $\pm$ 1.402 χ^2/NDF : 357.3/56

In: -4.217 $\pm$ 1.265 χ^2/NDF : 204.4/48

Out: -7.879 $\pm$ 1.176 χ^2/NDF : 197.7/55

All: -6.180 $\pm$ 0.861 χ^2/NDF : 406.6/104

diff_bpm0l06X_rms vs Slug, Sign Corrected



Right In: 7051.280+/-1.508 χ^2/NDF : 4122750.2/25

Left Out: 6447.712+/-1.074 χ^2/NDF : 371671.1/24

Right Out: 6690.737+/-1.316 χ^2/NDF : 4089814.0/30

Left In: 6468.902+/-1.111 χ^2/NDF : 383325.4/22

Left: 6457.948+/-0.772 χ^2/NDF : 755184.7/47

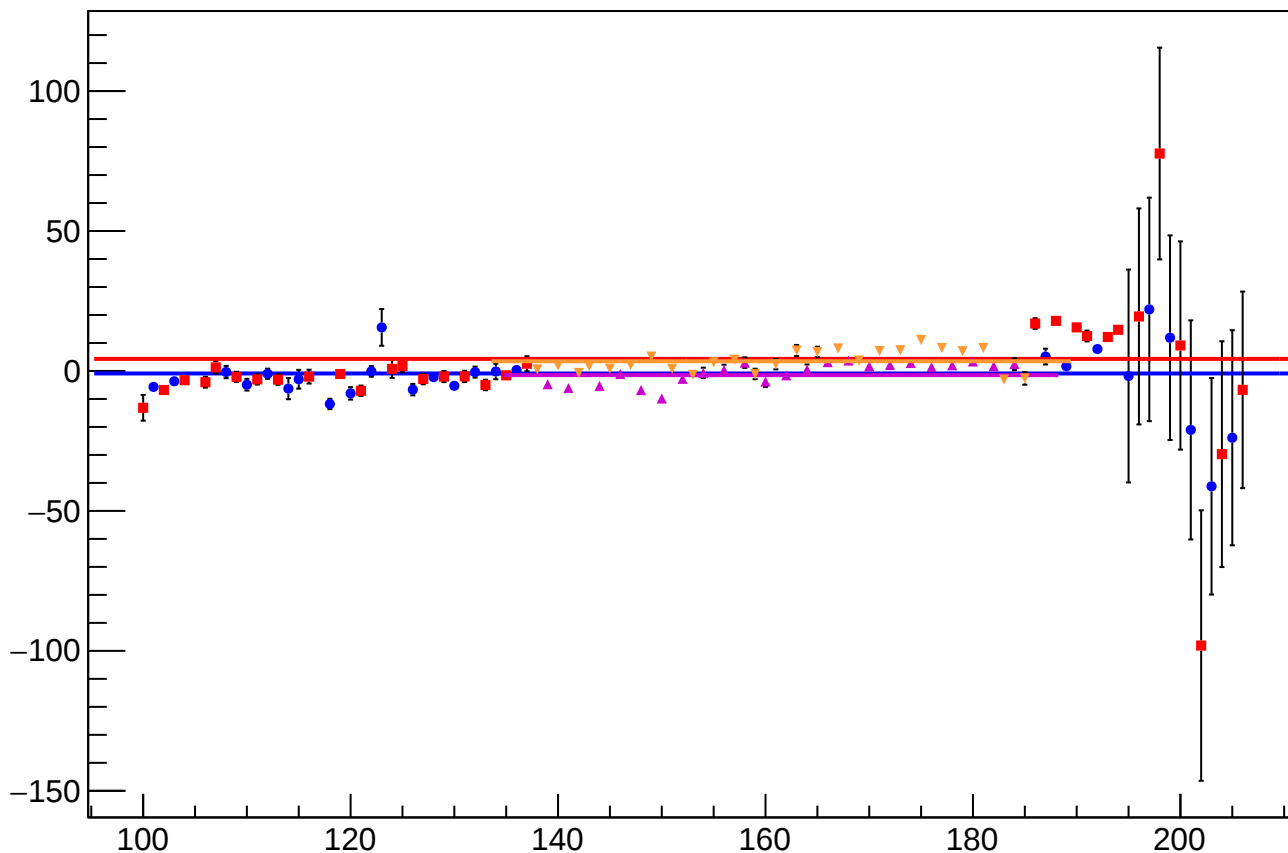
Right: 6846.548+/-0.992 χ^2/NDF : 8245011.4/56

In: 6673.639+/-0.894 χ^2/NDF : 4602751.0/48

Out: 6544.841+/-0.832 χ^2/NDF : 4481964.5/55

All: 6604.586+/-0.609 χ^2/NDF : 9095836.3/10

diff_bpm0l06Y_mean vs Slug, Sign Corrected



Right In: -0.896 ± 0.406 $\chi^2/\text{NDF}: 173.5/25$

Left Out: 3.470 ± 0.276 $\chi^2/\text{NDF}: 176.0/24$

Right Out: 4.313 ± 0.355 $\chi^2/\text{NDF}: 671.3/30$

Left In: -1.502 ± 0.291 $\chi^2/\text{NDF}: 202.7/22$

Left: 1.109 ± 0.200 $\chi^2/\text{NDF}: 532.4/47$

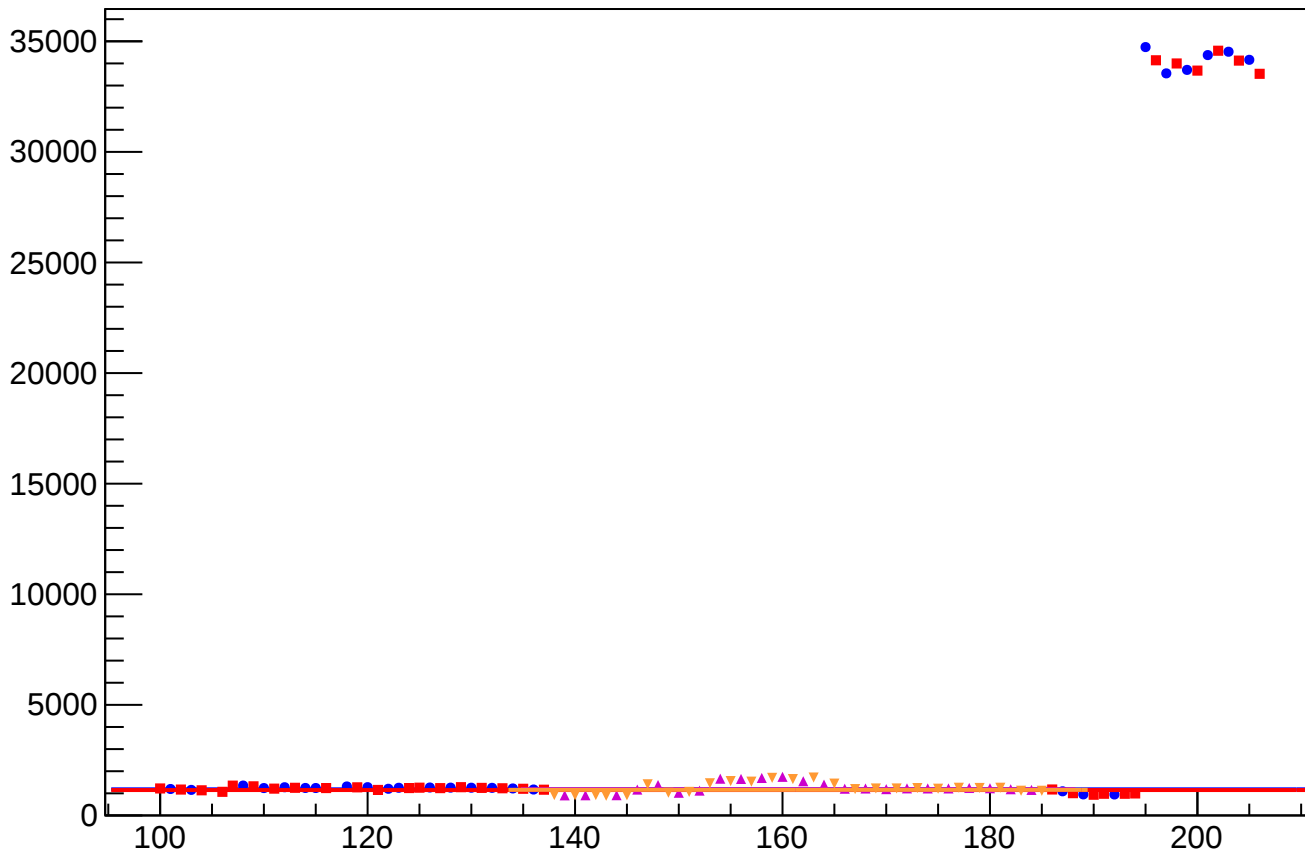
Right: 2.057 ± 0.267 $\chi^2/\text{NDF}: 938.2/56$

In: -1.297 ± 0.236 $\chi^2/\text{NDF}: 377.7/48$

Out: 3.789 ± 0.218 $\chi^2/\text{NDF}: 850.8/55$

All: 1.451 ± 0.160 $\chi^2/\text{NDF}: 1478.7/104$

diff_bpm0l06Y_rms vs Slug, Sign Corrected



Right In: 1181.124+/-0.287 χ^2/NDF : 9070947.0/25

Left Out: 1158.894+/-0.195 χ^2/NDF : 1410423.6/24

Right Out: 1148.790+/-0.251 χ^2/NDF : 8740316.5/30

Left In: 1184.966+/-0.206 χ^2/NDF : 1190431.5/22

Left: 1171.274+/-0.142 χ^2/NDF : 2609306.9/47

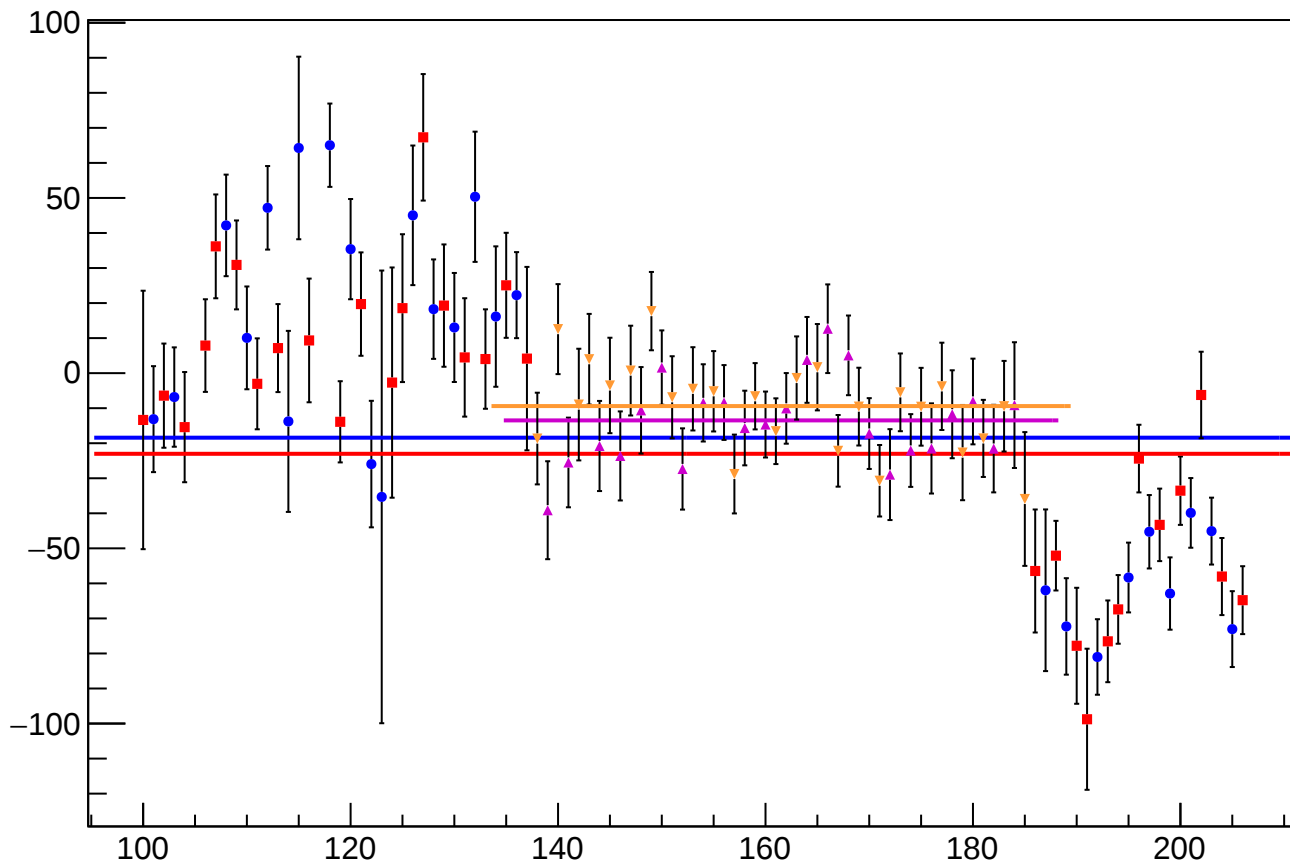
Right: 1162.793+/-0.189 χ^2/NDF : 17818467.1/56

In: 1183.663+/-0.167 χ^2/NDF : 10261497.2/48

Out: 1155.075+/-0.154 χ^2/NDF : 10151750.4/55

All: 1168.220+/-0.113 χ^2/NDF : 20429065.8/100

diff_bpm0l07X_mean vs Slug, Sign Corrected



Right In: -18.417 ± 2.657 χ^2/NDF : 306.4/25

Left Out: -9.398 ± 2.358 χ^2/NDF : 26.3/24

Right Out: -23.017 ± 2.422 χ^2/NDF : 228.8/30

Left In: -13.485 ± 2.443 χ^2/NDF : 21.6/22

Left: -11.369 ± 1.697 χ^2/NDF : 49.3/47

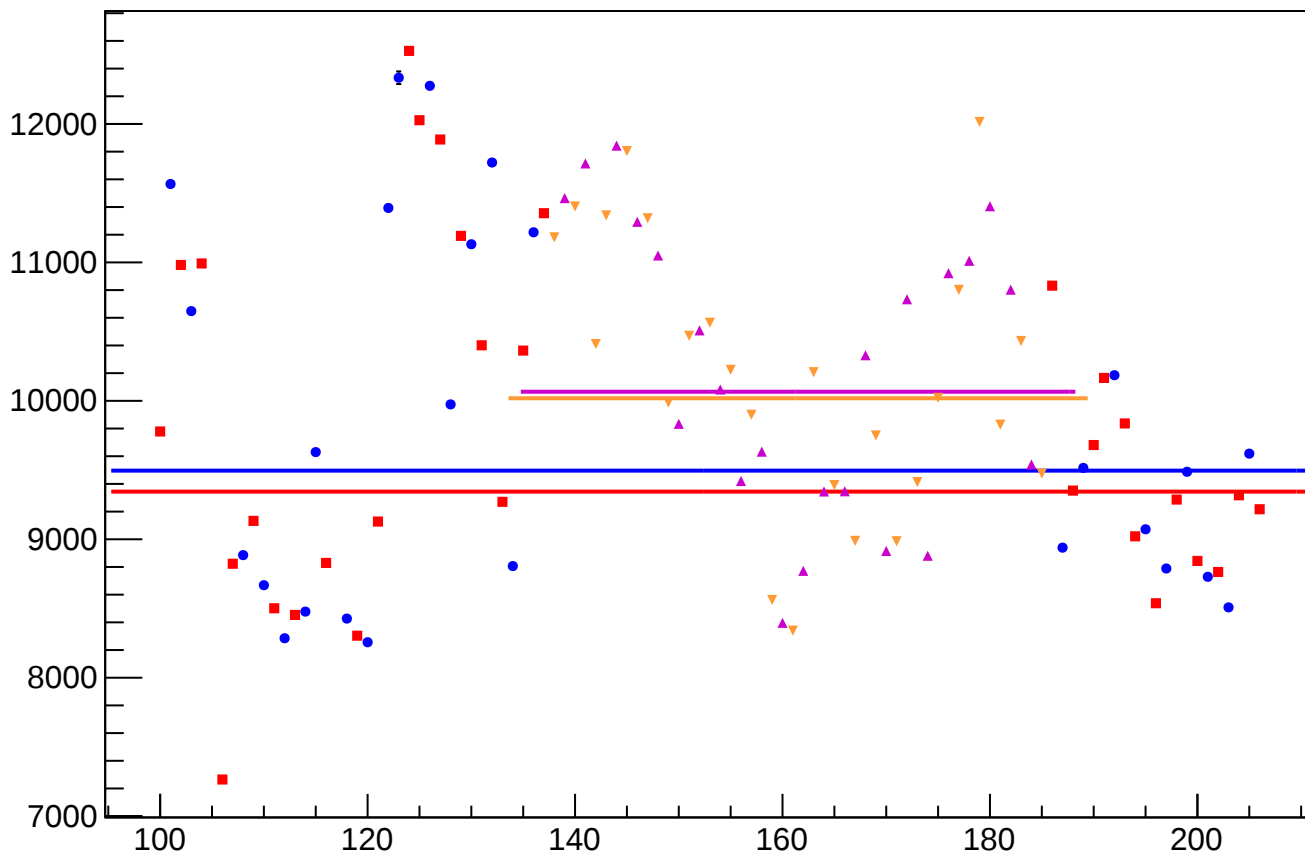
Right: -20.930 ± 1.790 χ^2/NDF : 536.9/56

In: -15.744 ± 1.798 χ^2/NDF : 329.8/48

Out: -16.028 ± 1.690 χ^2/NDF : 271.4/55

All: -15.895 ± 1.231 χ^2/NDF : 601.2/104

diff_bpm0l07X_rms vs Slug, Sign Corrected



Right In: 9495.918 $\pm$ 1.879 χ^2/NDF : 330866.7/25

Left Out: 10018.563 $\pm$ 1.668 χ^2/NDF :344534.6/24

Right Out: 9344.290 $\pm$ 1.712 χ^2/NDF : 326263.8/30

Left In: 10065.909 $\pm$ 1.727 χ^2/NDF :357868.9/22

Left: 10041.404 $\pm$ 1.200 χ^2/NDF : 702792.3/47

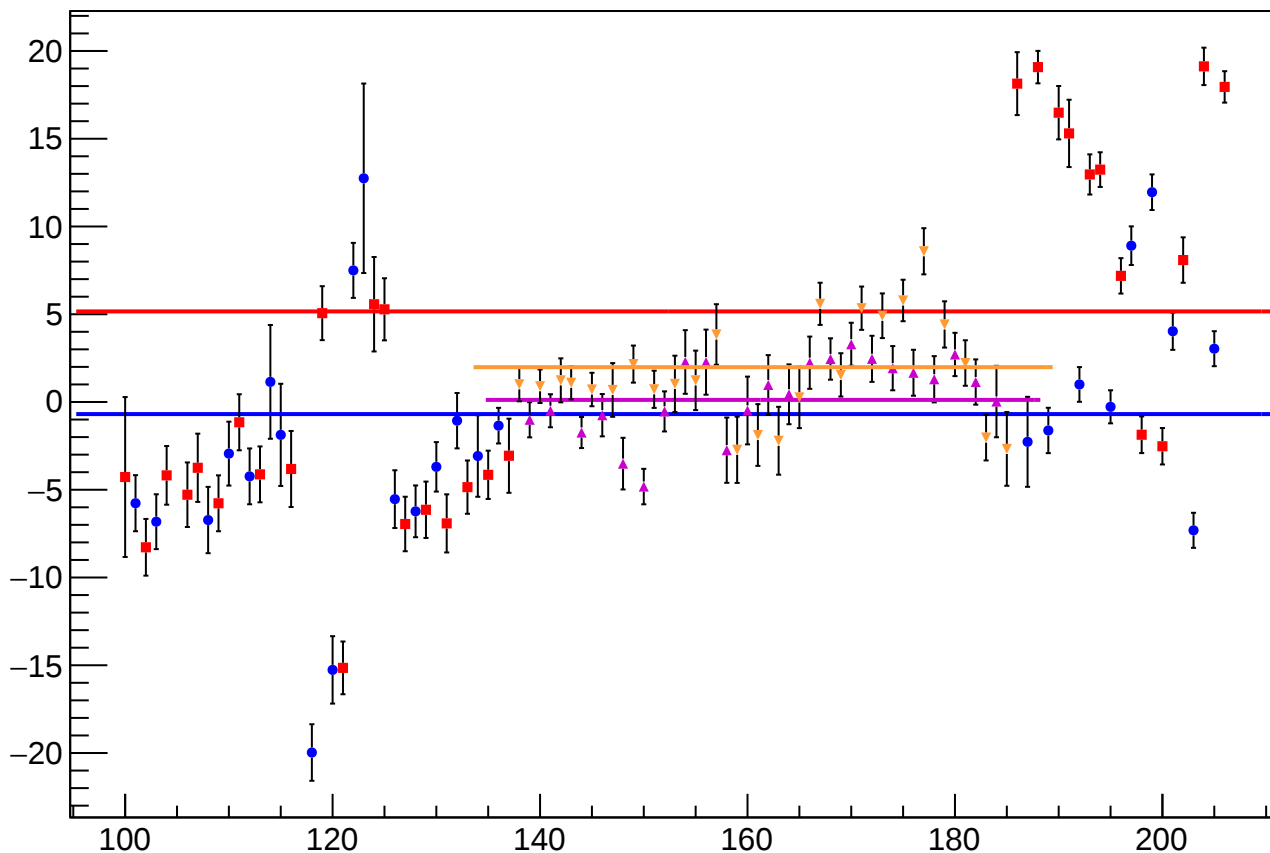
Right: 9413.087 $\pm$ 1.266 χ^2/NDF : 660688.5/56

In: 9804.813 $\pm$ 1.272 χ^2/NDF :738614.3/48

Out: 9690.316 $\pm$ 1.195 χ^2/NDF :750378.1/55

All: 9743.997 $\pm$ 0.871 χ^2/NDF : 1493298.9/10

diff_bpm0l07Y_mean vs Slug, Sign Corrected



Right In: -0.689 $\pm$ 0.271 χ^2/NDF : 619.0/25

Left Out: 1.985 $\pm$ 0.255 χ^2/NDF :101.2/24

Right Out: 5.161 $\pm$ 0.250 χ^2/NDF : 1683.6/30

Left In: 0.120 $\pm$ 0.269 χ^2/NDF :67.6/22

Left: 1.102 $\pm$ 0.185 χ^2/NDF : 194.2/47

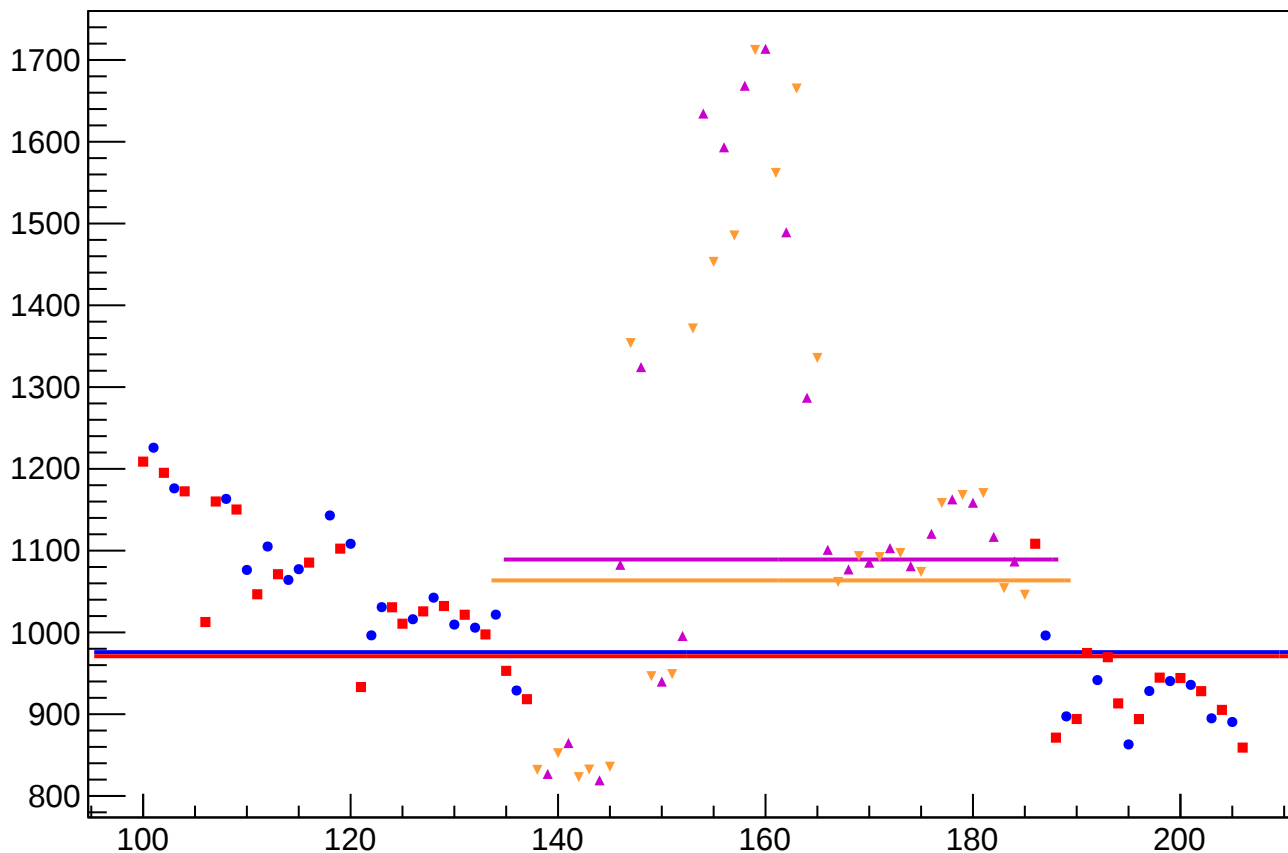
Right: 2.471 $\pm$ 0.184 χ^2/NDF : 2553.6/56

In: -0.281 $\pm$ 0.191 χ^2/NDF :691.1/48

Out: 3.601 $\pm$ 0.179 χ^2/NDF :1863.9/55

All: 1.789 $\pm$ 0.130 χ^2/NDF : 2775.3/104

diff_bpm0l07Y_rms vs Slug, Sign Corrected



Right In: 975.865 $\pm$ 0.192 χ^2 /NDF: 243914.5/25

Left Out: 1063.600 $\pm$ 0.180 χ^2 /NDF:1617376.3/24

Right Out: 970.822 $\pm$ 0.177 χ^2 /NDF: 265900.1/30

Left In: 1089.154 $\pm$ 0.190 χ^2 /NDF:1430478.5/22

Left: 1075.700 $\pm$ 0.131 χ^2 /NDF: 3057378.7/47

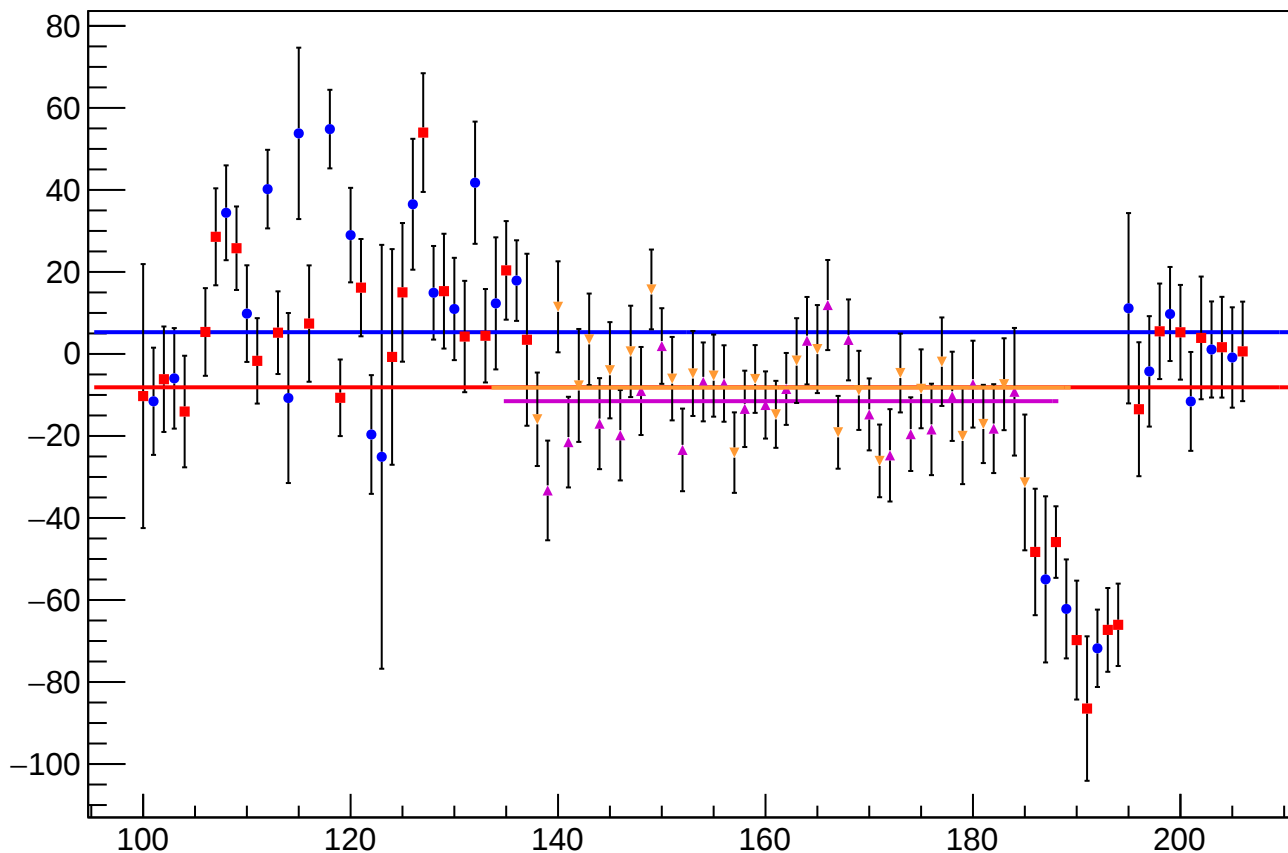
Right: 973.141 $\pm$ 0.130 χ^2 /NDF: 510187.7/56

In: 1033.078 $\pm$ 0.135 χ^2 /NDF:1850381.2/48

Out: 1016.404 $\pm$ 0.126 χ^2 /NDF:2018156.6/55

All: 1024.185 $\pm$ 0.092 χ^2 /NDF: 3876672.4/100

diff_bpm0l08X_mean vs Slug, Sign Corrected



Right In: 5.309+/-2.505 χ^2/NDF : 184.9/25

Left Out: -8.195+/-2.049 χ^2/NDF : 26.2/24

Right Out: -8.132+/-2.242 χ^2/NDF : 196.0/30

Left In: -11.515+/-2.122 χ^2/NDF : 21.0/22

Left: -9.796+/-1.474 χ^2/NDF : 48.5/47

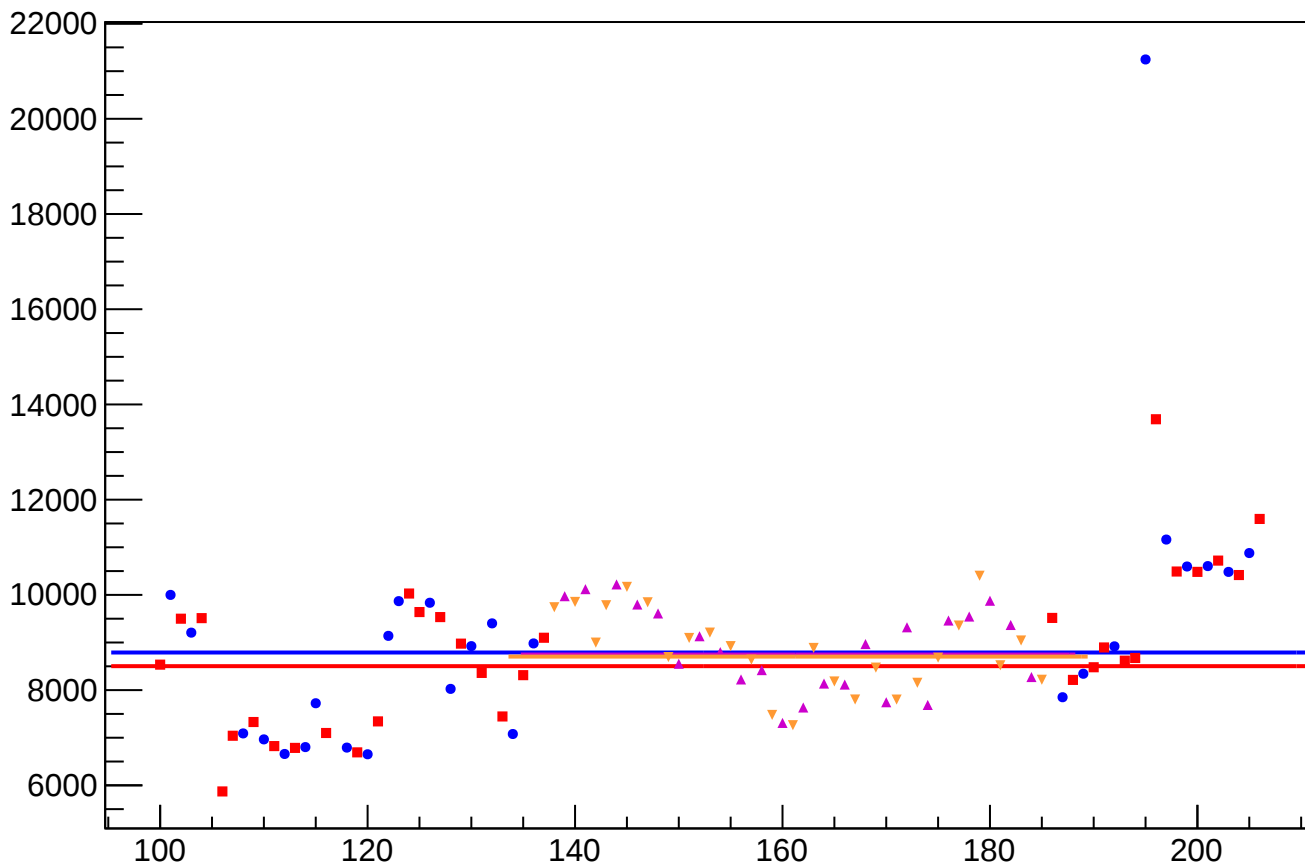
Right: -2.156+/-1.670 χ^2/NDF : 397.0/56

In: -4.486+/-1.619 χ^2/NDF : 232.3/48

Out: -8.166+/-1.512 χ^2/NDF : 222.2/55

All: -6.452+/-1.105 χ^2/NDF : 457.2/104

diff_bpm0l08X_rms vs Slug, Sign Corrected



Right In: 8789.833 ± 1.771 $\chi^2/\text{NDF}: 1275948.8/25$

Left Out: 8704.193 ± 1.449 $\chi^2/\text{NDF}: 332364.3/24$

Right Out: 8503.075 ± 1.585 $\chi^2/\text{NDF}: 1026619.2/30$

Left In: 8747.415 ± 1.501 $\chi^2/\text{NDF}: 347110.4/22$

Left: 8725.041 ± 1.042 $\chi^2/\text{NDF}: 679904.0/47$

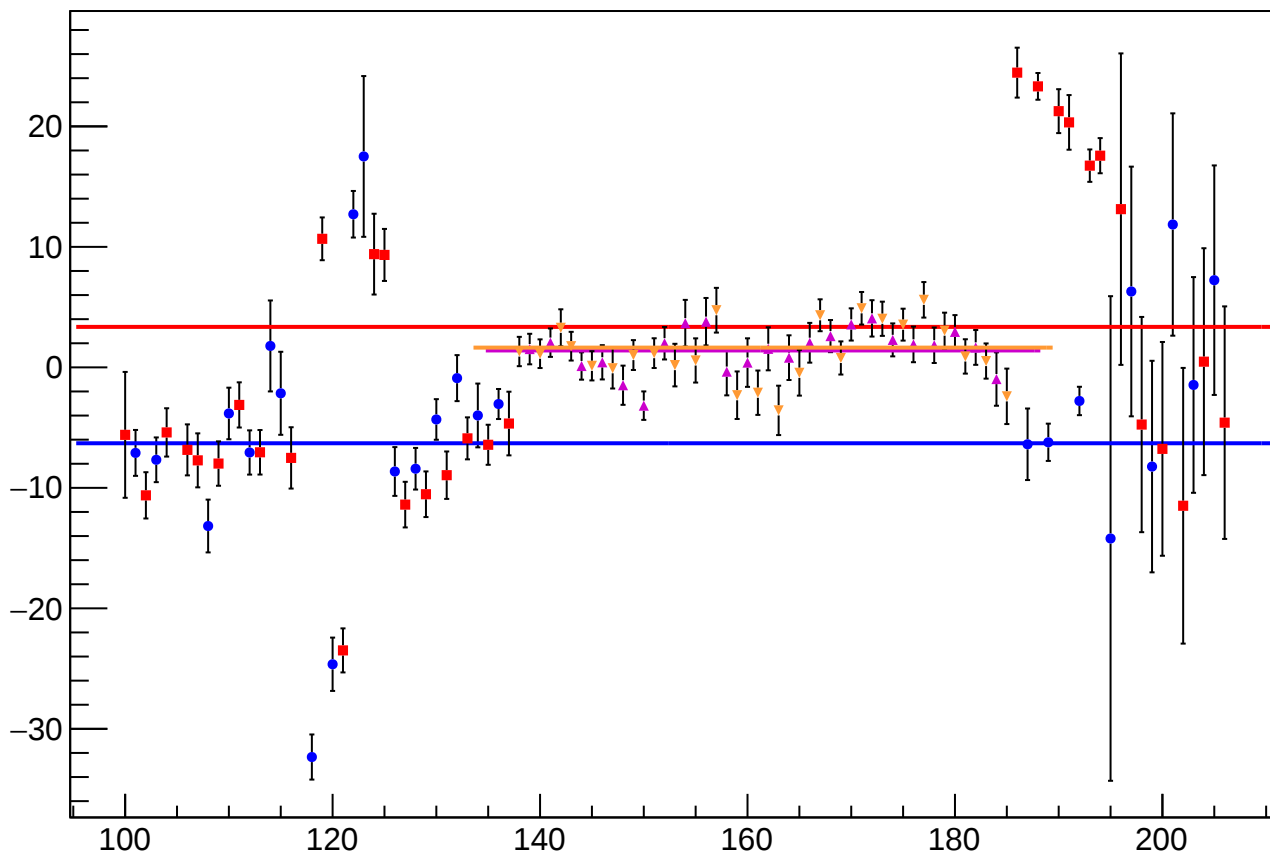
Right: 8630.583 ± 1.181 $\chi^2/\text{NDF}: 2317121.2/56$

In: 8765.139 ± 1.145 $\chi^2/\text{NDF}: 1623393.0/48$

Out: 8612.662 ± 1.069 $\chi^2/\text{NDF}: 1367755.8/55$

All: 8683.692 ± 0.782 $\chi^2/\text{NDF}: 3000620.6/10$

diff_bpm0l08Y_mean vs Slug, Sign Corrected



Right In: -6.299 ± 0.425 χ^2/NDF : 426.2/25

Left Out: 1.639 ± 0.294 χ^2/NDF : 51.3/24

Right Out: 3.359 ± 0.373 χ^2/NDF : 1471.0/30

Left In: 1.404 ± 0.309 χ^2/NDF : 34.1/22

Left: 1.528 ± 0.213 χ^2/NDF : 85.8/47

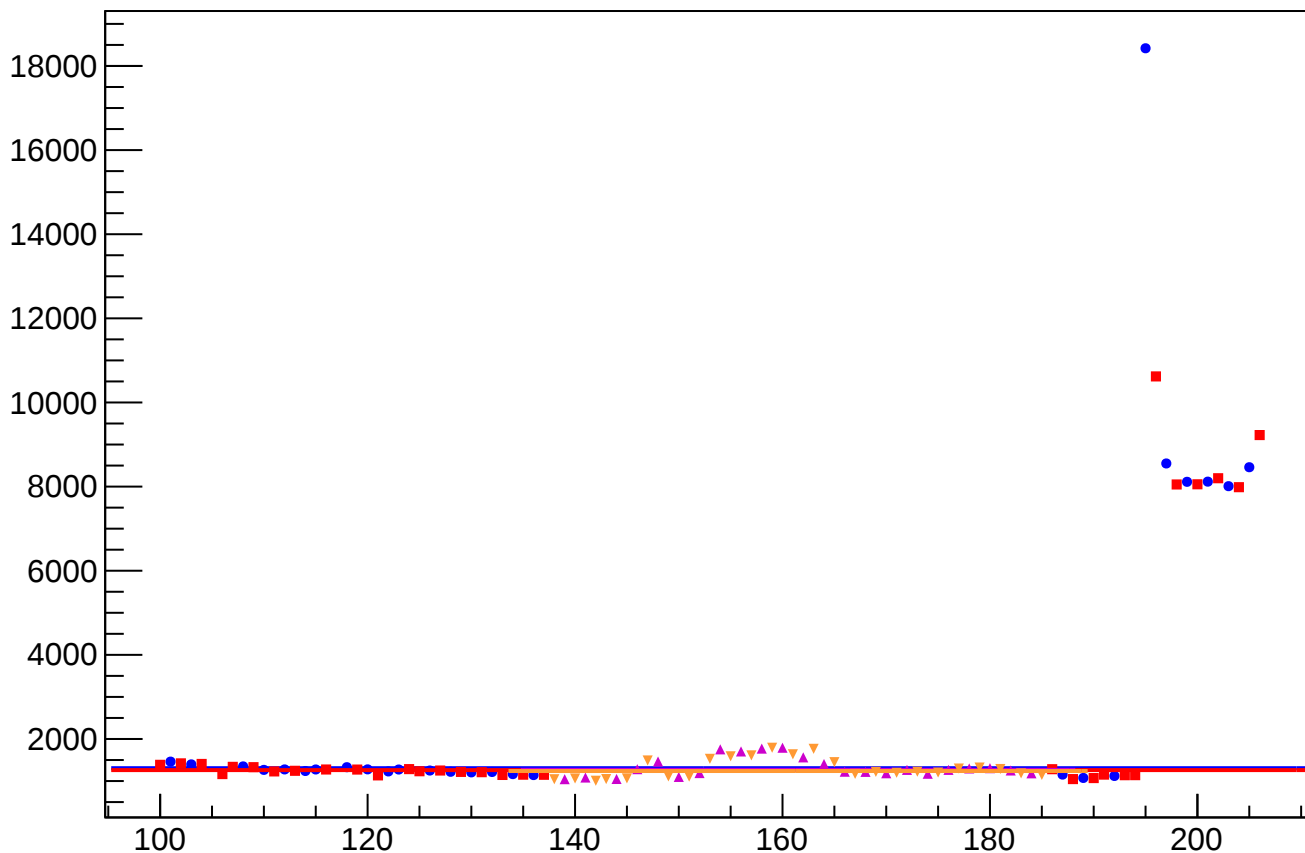
Right: -0.835 ± 0.280 χ^2/NDF : 2189.0/56

In: -1.257 ± 0.250 χ^2/NDF : 675.1/48

Out: 2.298 ± 0.231 χ^2/NDF : 1535.5/55

All: 0.664 ± 0.170 χ^2/NDF : 2319.8/104

diff_bpm0l08Y_rms vs Slug, Sign Corrected



Right In: 1305.540+/-0.301 χ^2/NDF : 7152424.7/25

Left Out: 1238.437+/-0.208 χ^2/NDF : 965173.0/24

Right Out: 1260.414+/-0.263 χ^2/NDF : 6696361.7/30

Left In: 1265.673+/-0.218 χ^2/NDF : 845157.0/22

Left: 1251.361+/-0.151 χ^2/NDF : 1818496.6/47

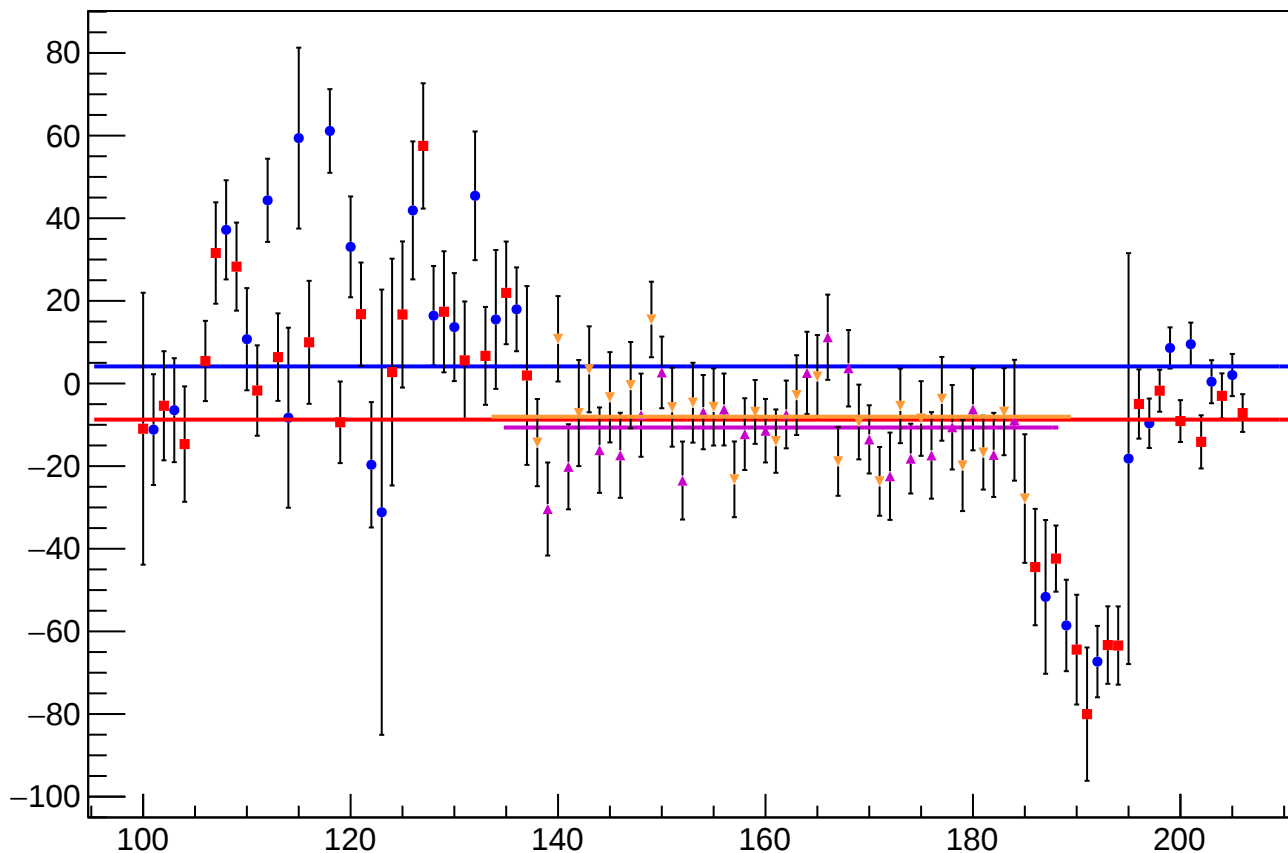
Right: 1280.010+/-0.198 χ^2/NDF : 13861523.4/56

In: 1279.445+/-0.177 χ^2/NDF : 8009083.2/48

Out: 1246.855+/-0.163 χ^2/NDF : 7665826.8/55

All: 1261.839+/-0.120 χ^2/NDF : 15693273.3/100

diff_bpm0l09X_mean vs Slug, Sign Corrected



Right In: 4.135 ± 1.828 $\chi^2/\text{NDF}: 206.1/25$

Left Out: -8.042 ± 1.918 $\chi^2/\text{NDF}: 26.3/24$

Right Out: -8.738 ± 1.665 $\chi^2/\text{NDF}: 199.4/30$

Left In: -10.653 ± 1.988 $\chi^2/\text{NDF}: 21.4/22$

Left: -9.301 ± 1.380 $\chi^2/\text{NDF}: 48.6/47$

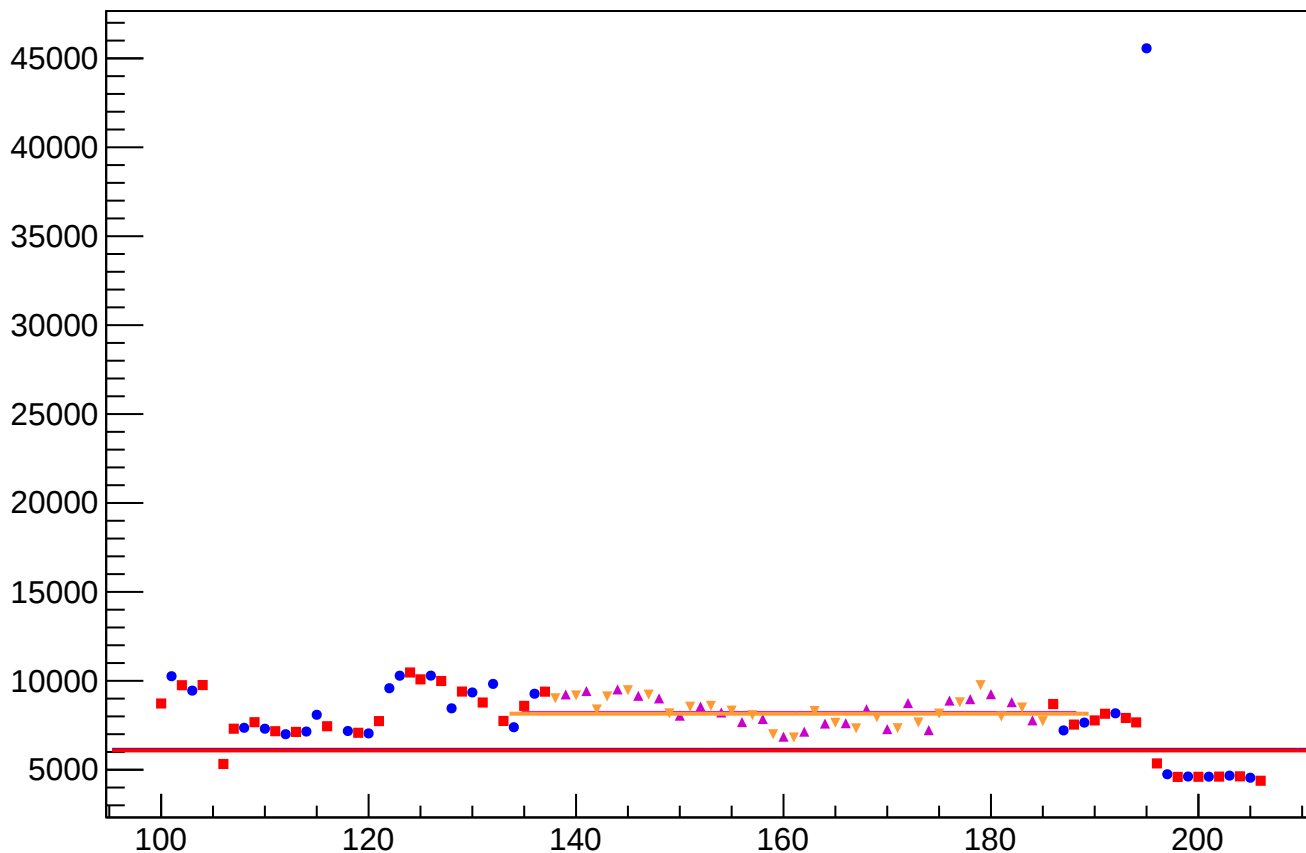
Right: -2.903 ± 1.231 $\chi^2/\text{NDF}: 432.6/56$

In: -2.642 ± 1.346 $\chi^2/\text{NDF}: 257.5/48$

Out: -8.439 ± 1.257 $\chi^2/\text{NDF}: 225.8/55$

All: -5.737 ± 0.919 $\chi^2/\text{NDF}: 493.2/104$

diff_bpm0l09X_rms vs Slug, Sign Corrected



Right In: 6120.719 $\pm$ 1.293 χ^2/NDF : 3409920.6/25

Left Out: 8151.489 $\pm$ 1.356 χ^2/NDF : 321803.3/24

Right Out: 6087.231 $\pm$ 1.177 χ^2/NDF : 2334679.2/30

Left In: 8193.636 $\pm$ 1.405 χ^2/NDF : 338377.6/22

Left: 8171.814 $\pm$ 0.976 χ^2/NDF : 660646.6/47

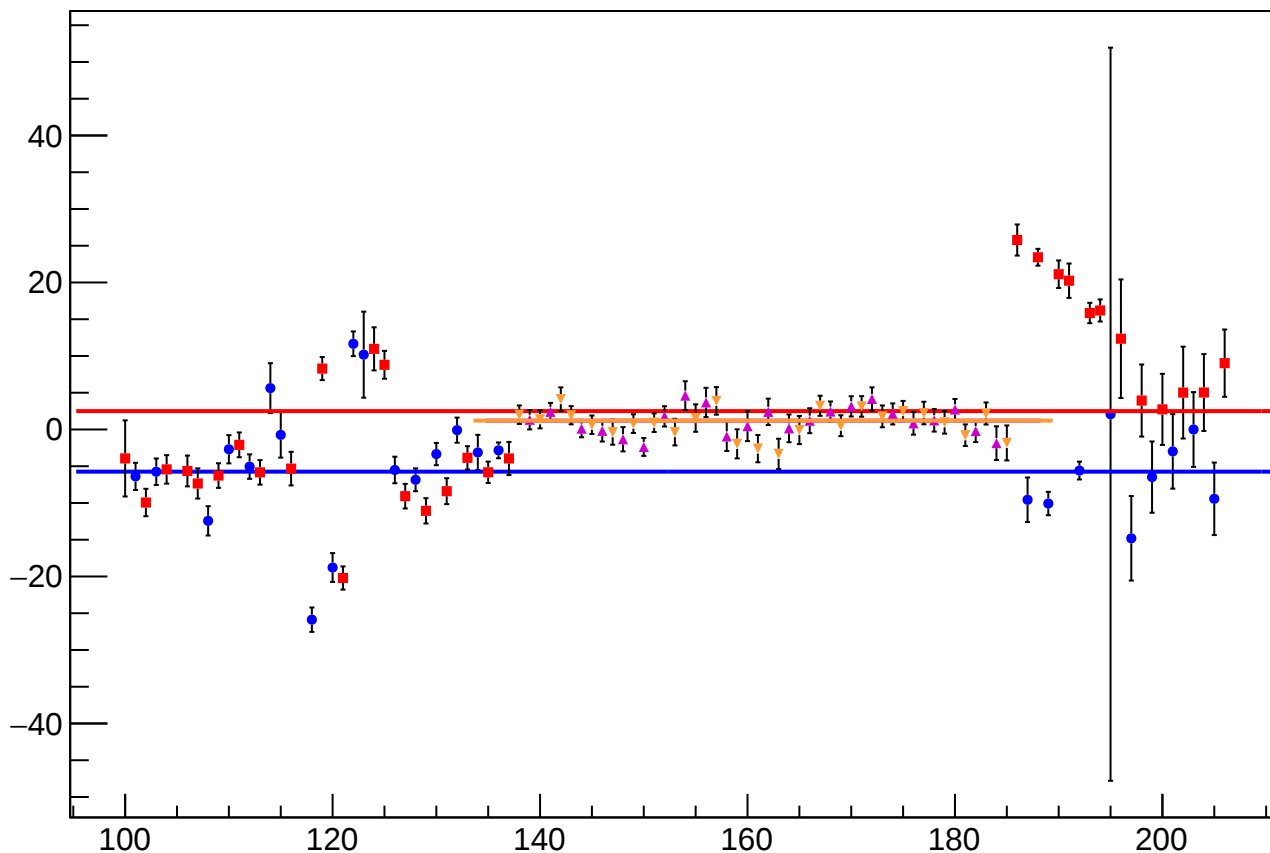
Right: 6102.411 $\pm$ 0.870 χ^2/NDF : 5744966.7/56

In: 7070.681 $\pm$ 0.951 χ^2/NDF : 4926799.1/48

Out: 6973.981 $\pm$ 0.889 χ^2/NDF : 3977752.7/55

All: 7019.053 $\pm$ 0.650 χ^2/NDF : 8910067.1/10

diff_bpm0l09Y_mean vs Slug, Sign Corrected



Right In: -5.738 ± 0.389 χ^2/NDF : 370.5/25

Left Out: 1.203 ± 0.302 χ^2/NDF : 29.9/24

Right Out: 2.500 ± 0.349 χ^2/NDF : 1410.6/30

Left In: 1.198 ± 0.318 χ^2/NDF : 31.2/22

Left: 1.201 ± 0.219 χ^2/NDF : 61.1/47

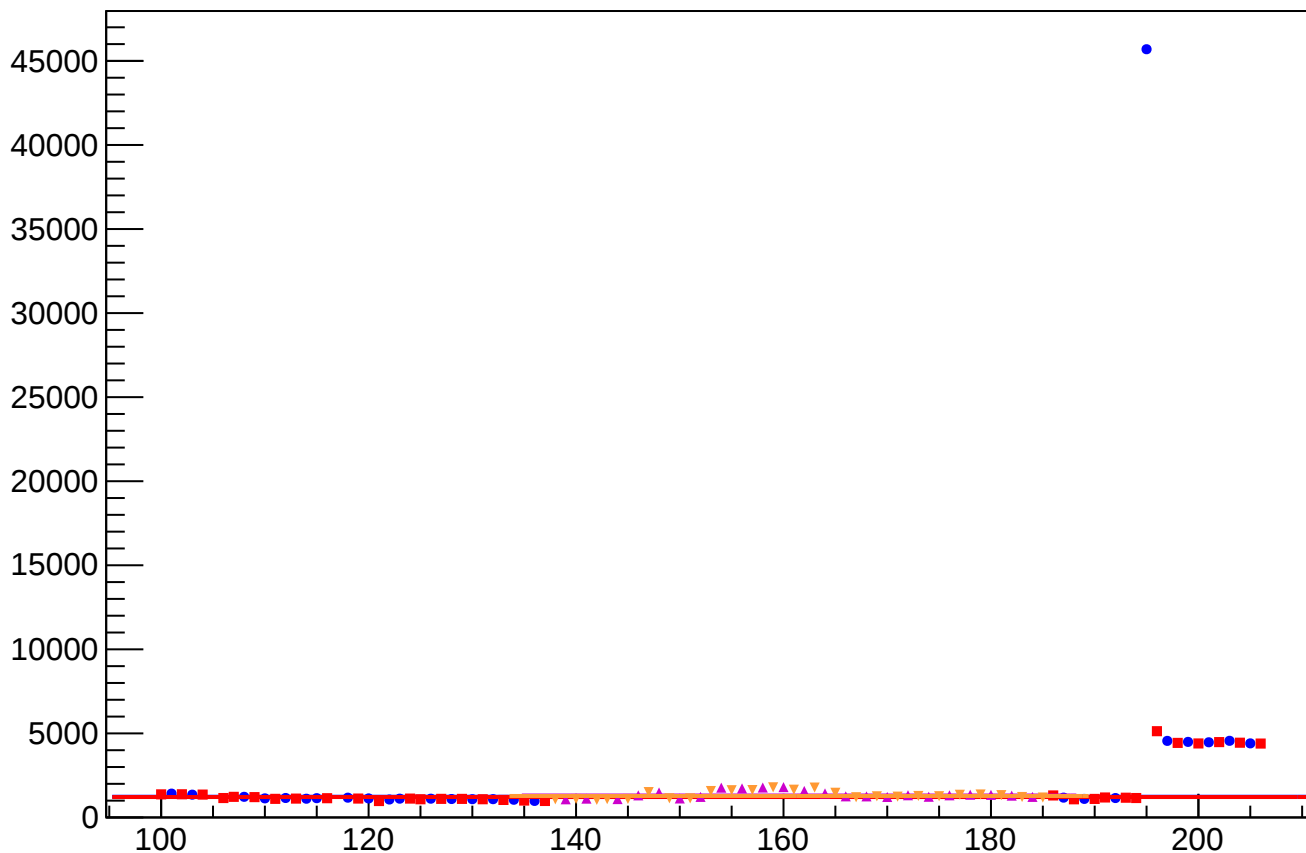
Right: -1.165 ± 0.260 χ^2/NDF : 2029.5/56

In: -1.579 ± 0.246 χ^2/NDF : 591.9/48

Out: 1.760 ± 0.228 χ^2/NDF : 1448.4/55

All: 0.217 ± 0.168 χ^2/NDF : 2139.1/104

diff_bpm0l09Y_rms vs Slug, Sign Corrected



Right In: 1231.214+/-0.275 χ^2/NDF : 5931036.6/25

Left Out: 1277.916+/-0.214 χ^2/NDF : 878127.9/24

Right Out: 1214.699+/-0.246 χ^2/NDF : 4745596.1/30

Left In: 1305.541+/-0.225 χ^2/NDF : 760450.8/22

Left: 1291.030+/-0.155 χ^2/NDF : 1646499.4/47

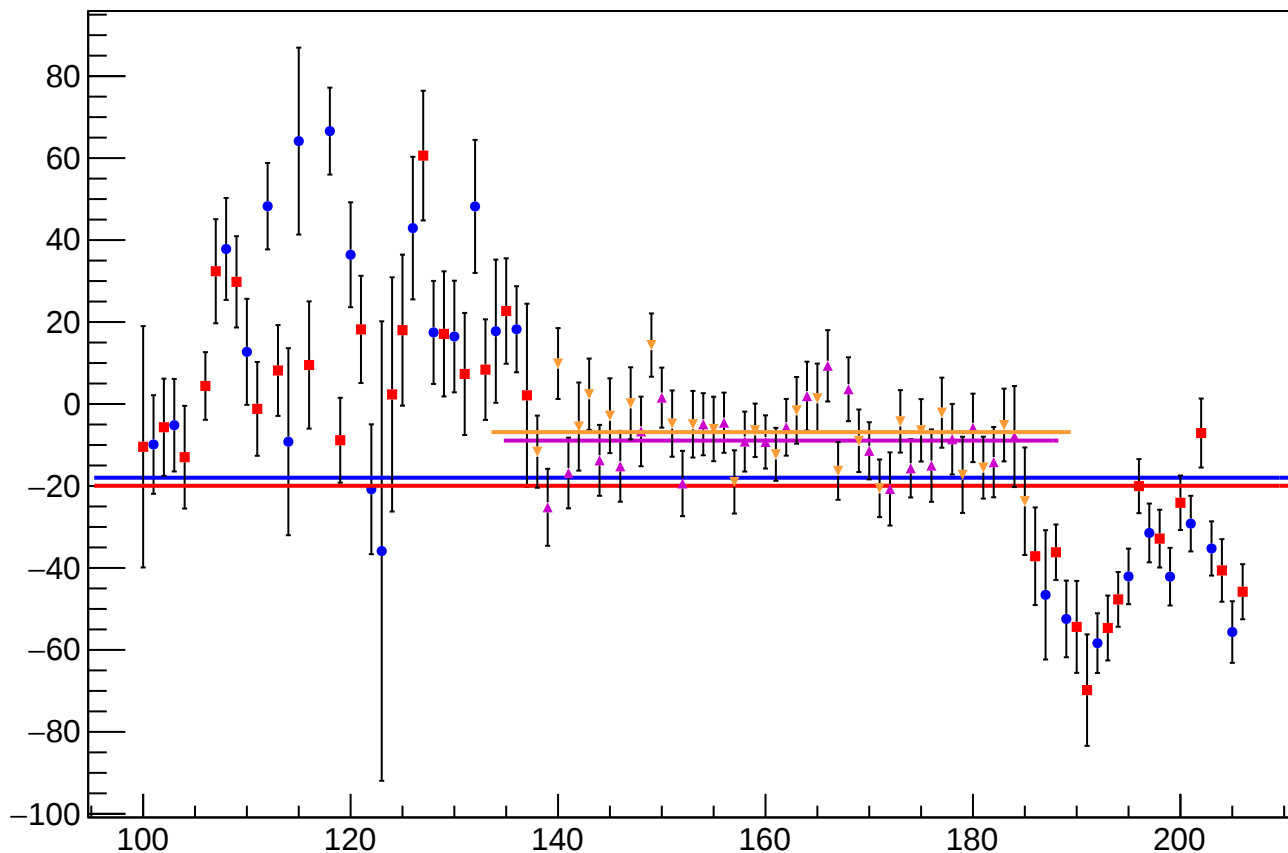
Right: 1222.046+/-0.184 χ^2/NDF : 10678630.3/56

In: 1275.782+/-0.174 χ^2/NDF : 6735192.5/48

Out: 1250.762+/-0.162 χ^2/NDF : 5661257.8/55

All: 1262.329+/-0.118 χ^2/NDF : 12407542.7/100

diff_bpm0l10X_mean vs Slug, Sign Corrected



Right In: -17.984 ± 2.006 χ^2/NDF : 331.4/25

Left Out: -6.854 ± 1.616 χ^2/NDF : 28.7/24

Right Out: -19.950 ± 1.796 χ^2/NDF : 222.6/30

Left In: -8.923 ± 1.674 χ^2/NDF : 21.8/22

Left: -7.852 ± 1.163 χ^2/NDF : 51.3/47

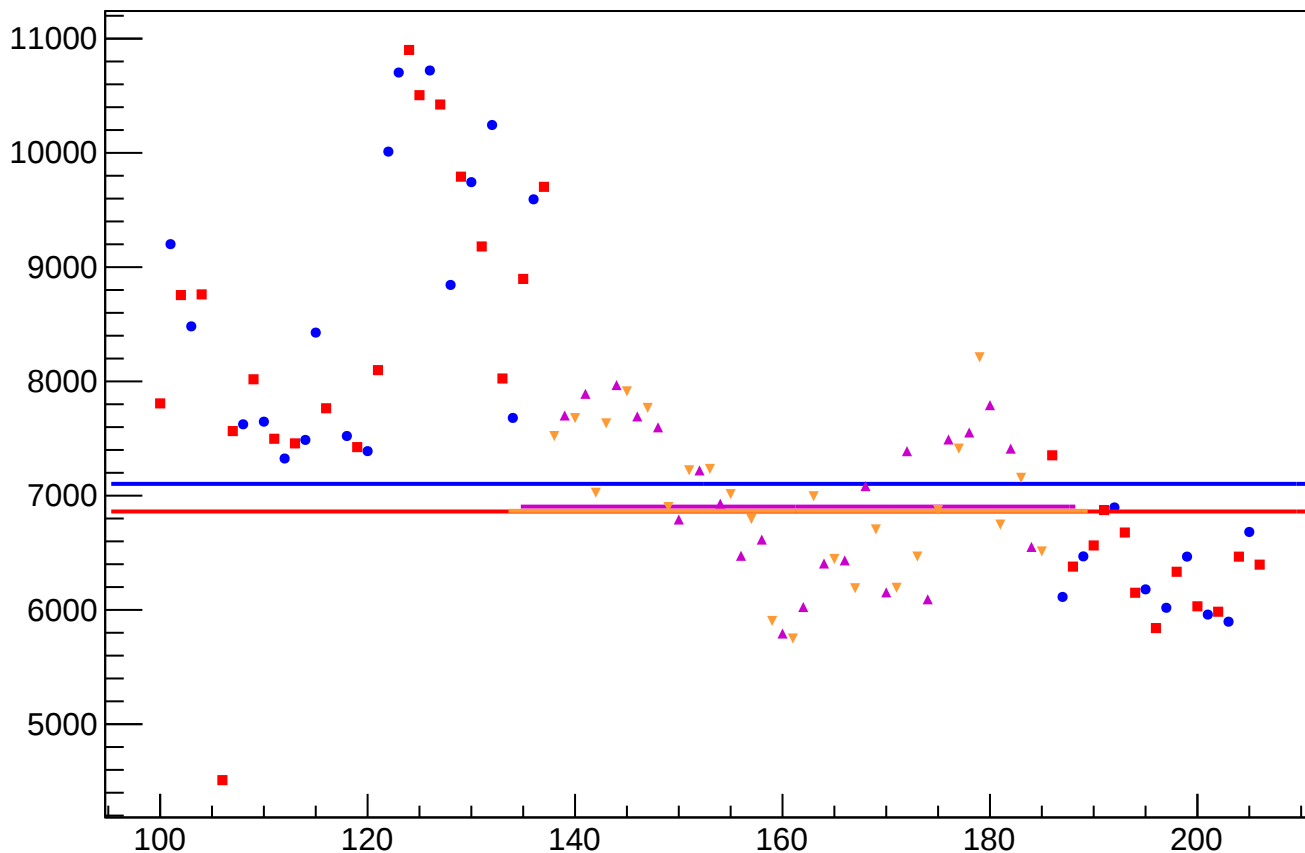
Right: -19.075 ± 1.338 χ^2/NDF : 554.5/56

In: -12.643 ± 1.285 χ^2/NDF : 365.2/48

Out: -12.711 ± 1.201 χ^2/NDF : 280.7/55

All: -12.680 ± 0.878 χ^2/NDF : 645.9/104

diff_bpm0l10X_rms vs Slug, Sign Corrected



Right In: 7103.177+/-1.418 χ^2/NDF : 823068.9/25

Left Out: 6867.371+/-1.142 χ^2/NDF : 306895.0/24

Right Out: 6861.368+/-1.270 χ^2/NDF : 939437.1/30

Left In: 6904.117+/-1.184 χ^2/NDF : 325912.6/22

Left: 6885.088+/-0.822 χ^2/NDF : 633306.5/47

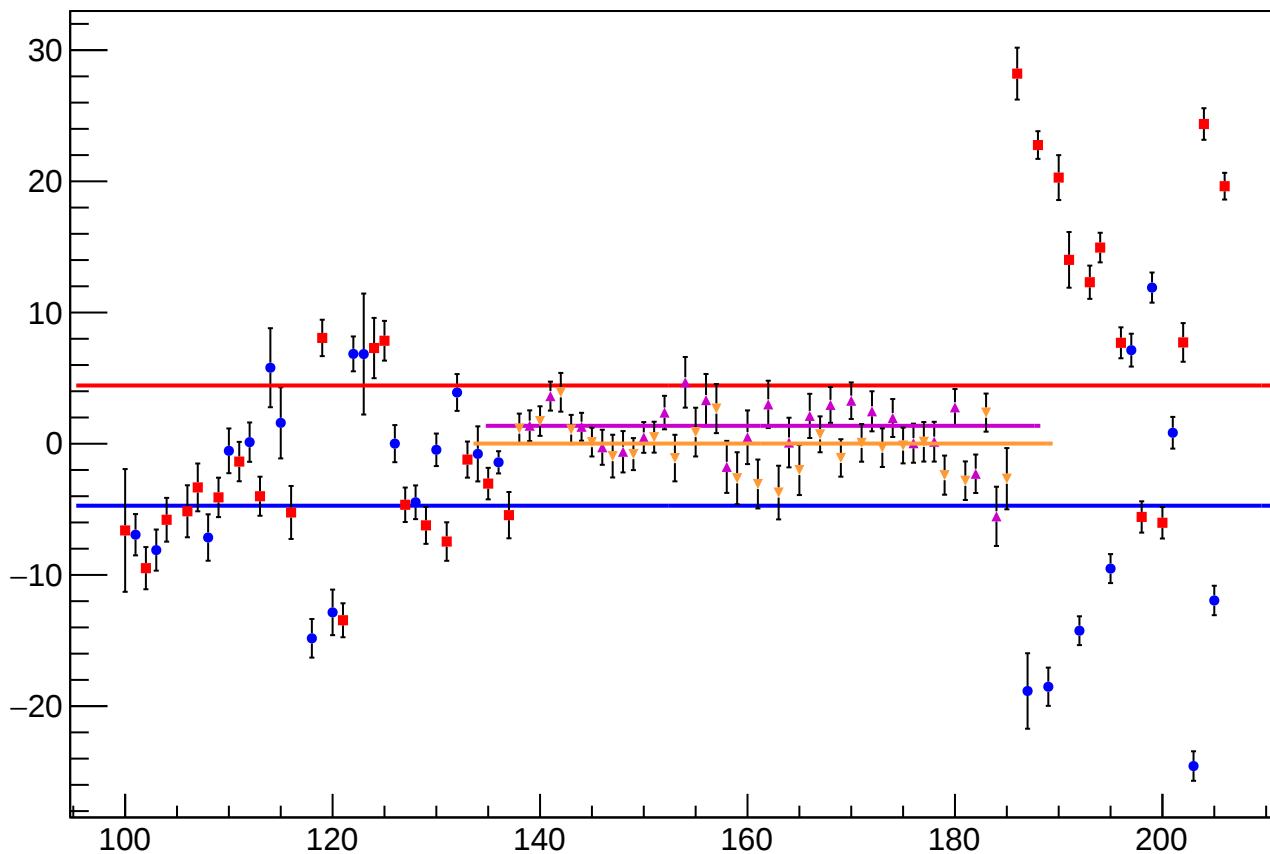
Right: 6968.961+/-0.946 χ^2/NDF : 1778637.0/56

In: 6985.854+/-0.909 χ^2/NDF : 1160589.4/48

Out: 6864.687+/-0.849 χ^2/NDF : 1246344.4/55

All: 6921.167+/-0.621 χ^2/NDF : 2416421.3/10

diff_bpm0l10Y_mean vs Slug, Sign Corrected



Right In: -4.723 ± 0.274 χ^2/NDF : 1154.1/25

Left Out: 0.014 ± 0.290 χ^2/NDF : 35.0/24

Right Out: 4.440 ± 0.257 χ^2/NDF : 2058.2/30

Left In: 1.365 ± 0.306 χ^2/NDF : 38.5/22

Left: 0.654 ± 0.210 χ^2/NDF : 83.8/47

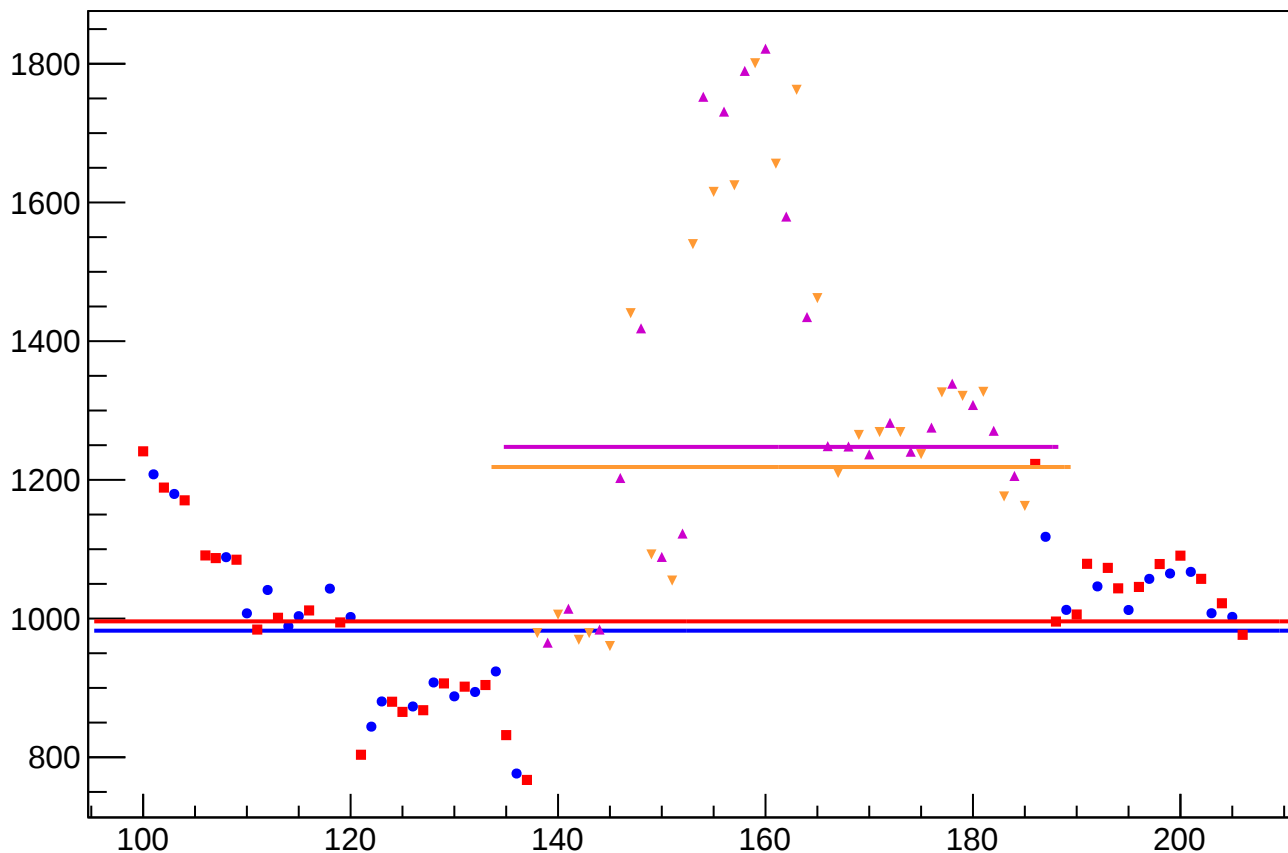
Right: 0.142 ± 0.187 χ^2/NDF : 3807.9/56

In: -2.013 ± 0.204 χ^2/NDF : 1413.0/48

Out: 2.491 ± 0.192 χ^2/NDF : 2223.7/55

All: 0.369 ± 0.140 χ^2/NDF : 3895.0/104

diff_bpm0l10Y_rms vs Slug, Sign Corrected



Right In: 982.521 $\pm$ 0.193 χ^2/NDF : 310122.0/25

Left Out: 1218.543 $\pm$ 0.205 χ^2/NDF : 1265847.5/24

Right Out: 995.956 $\pm$ 0.182 χ^2/NDF : 323549.6/30

Left In: 1247.538 $\pm$ 0.216 χ^2/NDF : 1073390.3/22

Left: 1232.283 $\pm$ 0.149 χ^2/NDF : 2348717.2/47

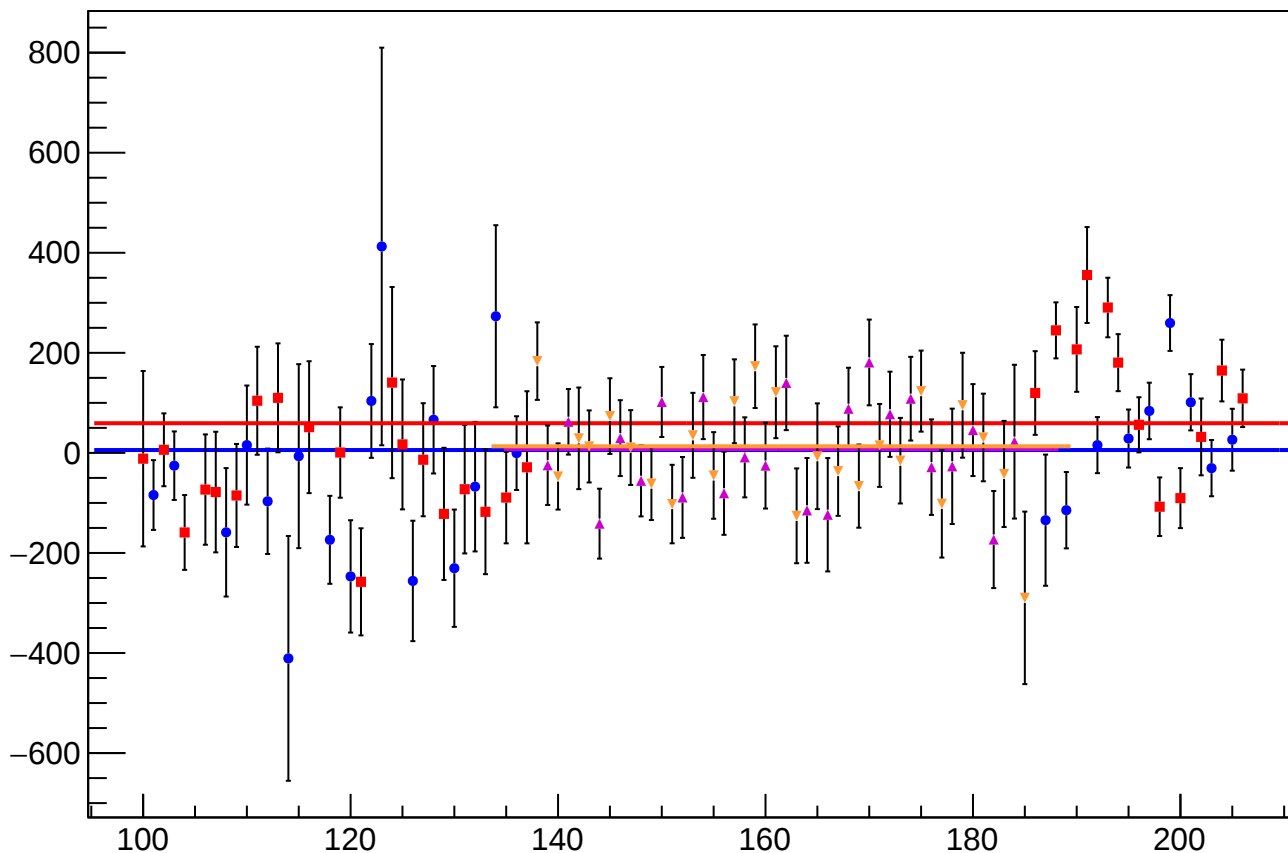
Right: 989.655 $\pm$ 0.132 χ^2/NDF : 636231.9/56

In: 1100.479 $\pm$ 0.144 χ^2/NDF : 2218681.6/48

Out: 1093.958 $\pm$ 0.136 χ^2/NDF : 2249214.6/55

All: 1097.030 $\pm$ 0.099 χ^2/NDF : 4468978.8/10

diff_bpm0r03X_mean vs Slug, Sign Corrected



Right In: 5.723 ± 16.100 $\chi^2/\text{NDF}: 59.9/25$

Left Out: 13.207 ± 17.146 $\chi^2/\text{NDF}: 26.8/24$

Right Out: 59.321 ± 14.859 $\chi^2/\text{NDF}: 94.0/30$

Left In: 7.618 ± 17.672 $\chi^2/\text{NDF}: 28.1/22$

Left: 10.497 ± 12.306 $\chi^2/\text{NDF}: 55.0/47$

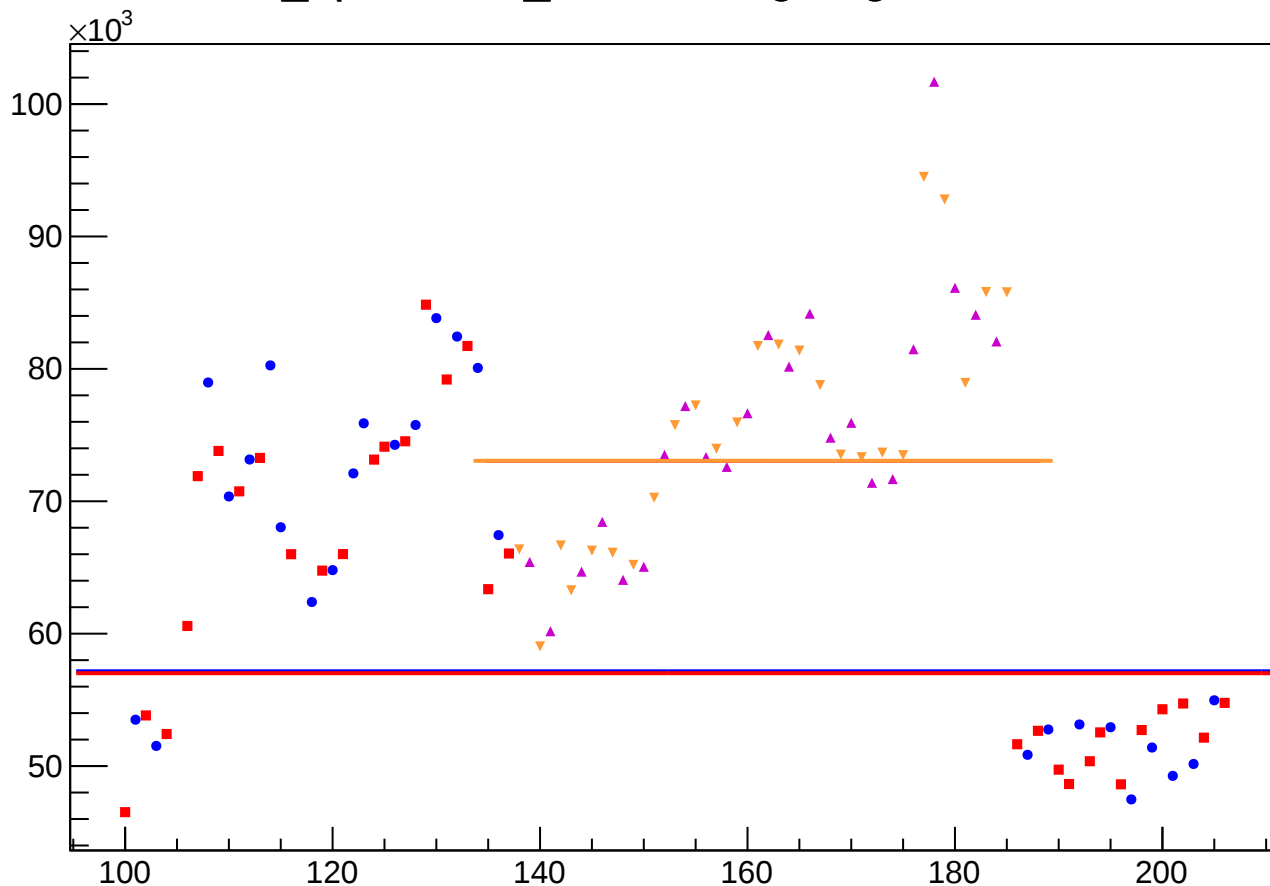
Right: 34.667 ± 10.919 $\chi^2/\text{NDF}: 159.9/56$

In: 6.582 ± 11.901 $\chi^2/\text{NDF}: 88.0/48$

Out: 39.542 ± 11.229 $\chi^2/\text{NDF}: 124.9/55$

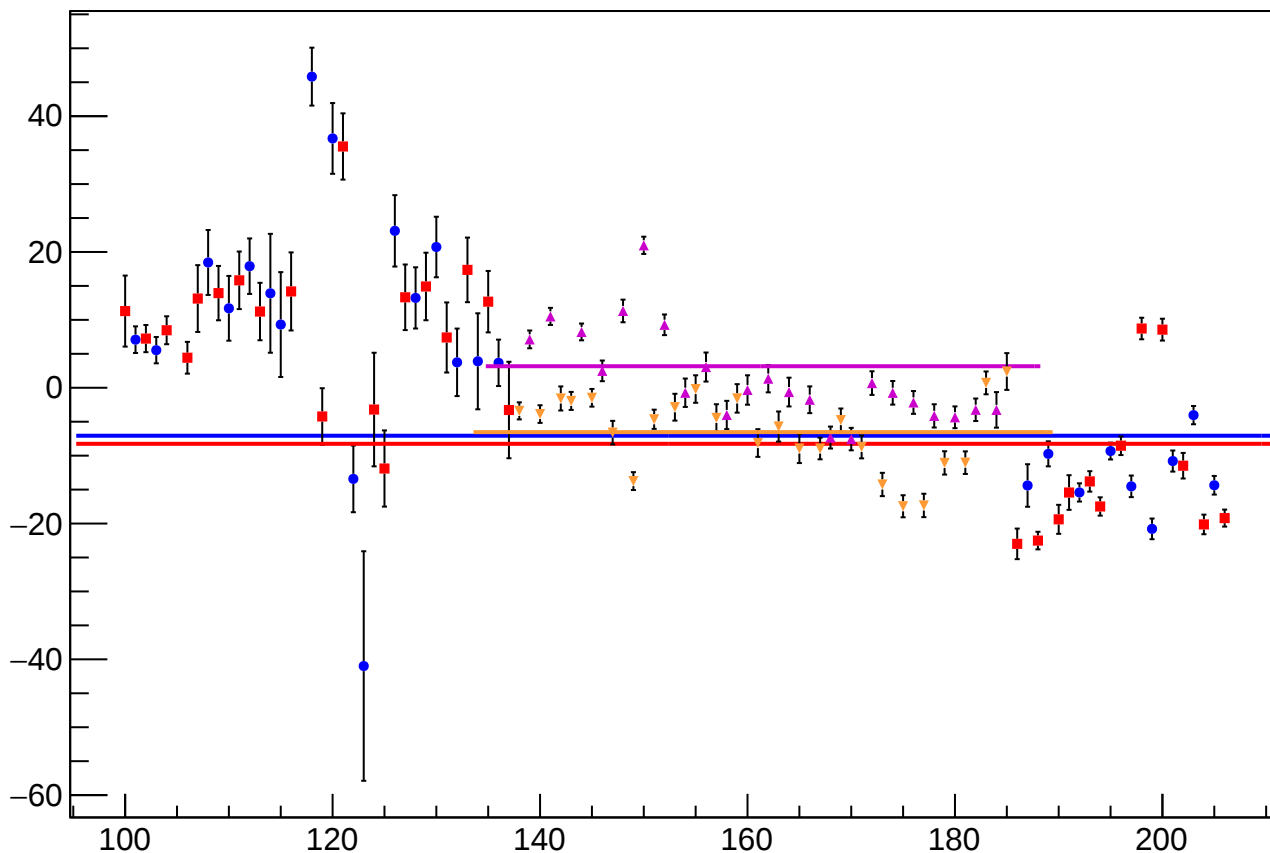
All: 24.020 ± 8.168 $\chi^2/\text{NDF}: 217.0/104$

diff_bpm0r03X_rms vs Slug, Sign Corrected



Right In: 57158.560 $\pm$ 11.385	χ^2/NDF : 763939.8/25	Left: 73050.085 $\pm$ 8.701	χ^2/NDF : 936576.6/47
Left Out: 73054.401 $\pm$ 12.124	χ^2/NDF : 473050.9/24	Right: 57079.677 $\pm$ 7.721	χ^2/NDF : 1490771.4/56
Right Out: 57012.488 $\pm$ 10.507	χ^2/NDF : 726742.7/30	In: 64364.477 $\pm$ 8.416	χ^2/NDF : 2110727.3/48
Left In: 73045.500 $\pm$ 12.496	χ^2/NDF : 463525.5/22	Out: 63892.901 $\pm$ 7.940	χ^2/NDF : 2199608.1/55
		All: 64114.993 $\pm$ 5.775	χ^2/NDF : 4311996.6/1

diff_bpm0r03Y_mean vs Slug, Sign Corrected



Right In: -7.066 $\pm$ 0.445 χ^2/NDF : 716.6/25

Left Out: -6.537 $\pm$ 0.332 χ^2/NDF : 252.7/24

Right Out: -8.255 $\pm$ 0.402 χ^2/NDF : 1101.9/30

Left In: 3.171 $\pm$ 0.346 χ^2/NDF : 487.3/22

Left: -1.892 $\pm$ 0.240 χ^2/NDF : 1149.5/47

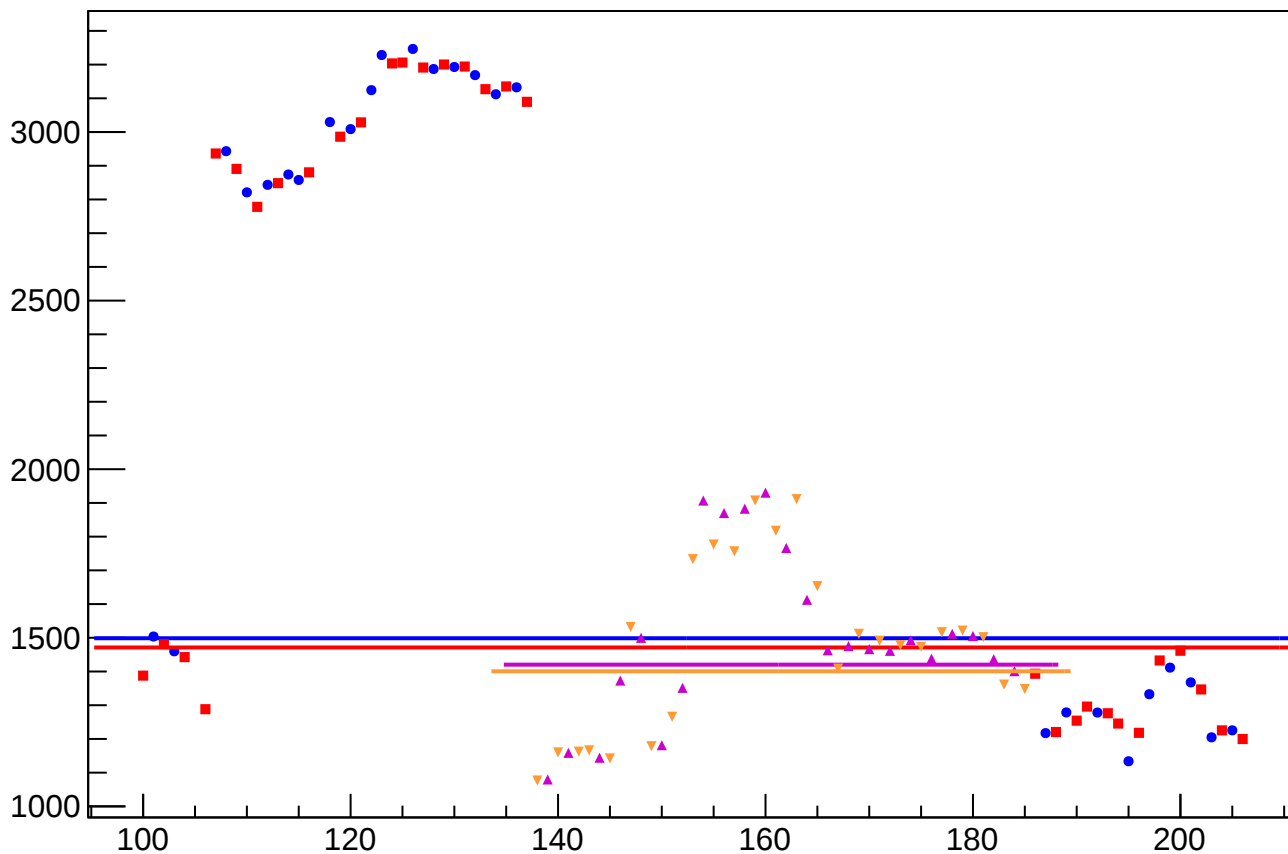
Right: -7.721 $\pm$ 0.298 χ^2/NDF : 1822.4/56

In: -0.691 $\pm$ 0.273 χ^2/NDF : 1533.2/48

Out: -7.234 $\pm$ 0.256 χ^2/NDF : 1365.5/55

All: -4.179 $\pm$ 0.187 χ^2/NDF : 3204.0/104

diff_bpm0r03Y_rms vs Slug, Sign Corrected



Right In: 1498.645 $\pm$ 0.315 χ^2 /NDF: 3396094.6/25

Left Out: 1400.637 $\pm$ 0.235 χ^2 /NDF: 1037921.6/24

Right Out: 1471.225 $\pm$ 0.284 χ^2 /NDF: 3470955.1/30

Left In: 1420.285 $\pm$ 0.245 χ^2 /NDF: 905186.2/22

Left: 1410.037 $\pm$ 0.169 χ^2 /NDF: 1946462.8/47

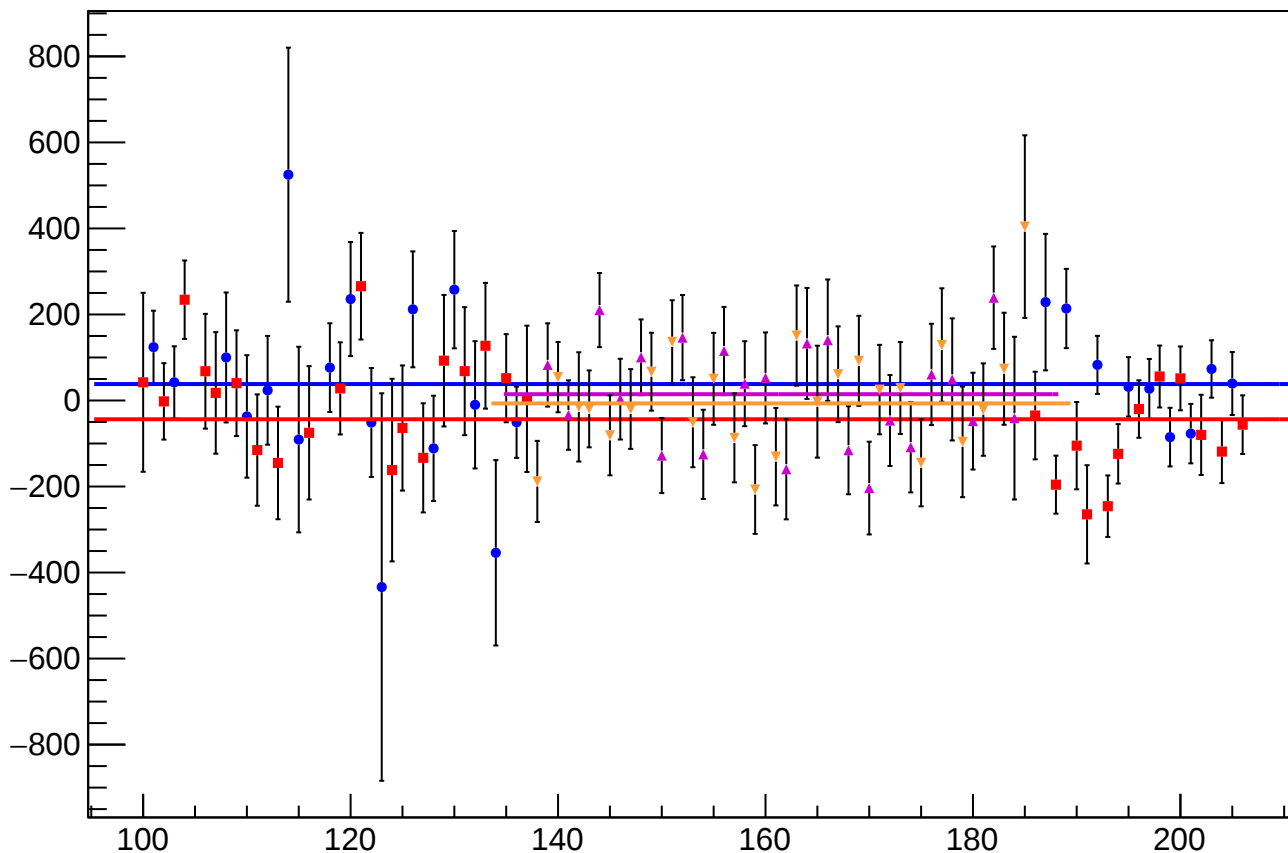
Right: 1483.532 $\pm$ 0.211 χ^2 /NDF: 6871232.4/56

In: 1449.846 $\pm$ 0.193 χ^2 /NDF: 4339877.3/48

Out: 1429.265 $\pm$ 0.181 χ^2 /NDF: 4545585.1/55

All: 1438.873 $\pm$ 0.132 χ^2 /NDF: 8891504.7/100

diff_bpm0r05X_mean vs Slug, Sign Corrected



Right In: 38.175 ± 19.218 $\chi^2/\text{NDF}: 30.7/25$

Left Out: -6.789 ± 21.213 $\chi^2/\text{NDF}: 24.7/24$

Right Out: -43.670 ± 17.785 $\chi^2/\text{NDF}: 46.6/30$

Left In: 14.611 ± 21.846 $\chi^2/\text{NDF}: 29.8/22$

Left: 3.596 ± 15.219 $\chi^2/\text{NDF}: 55.0/47$

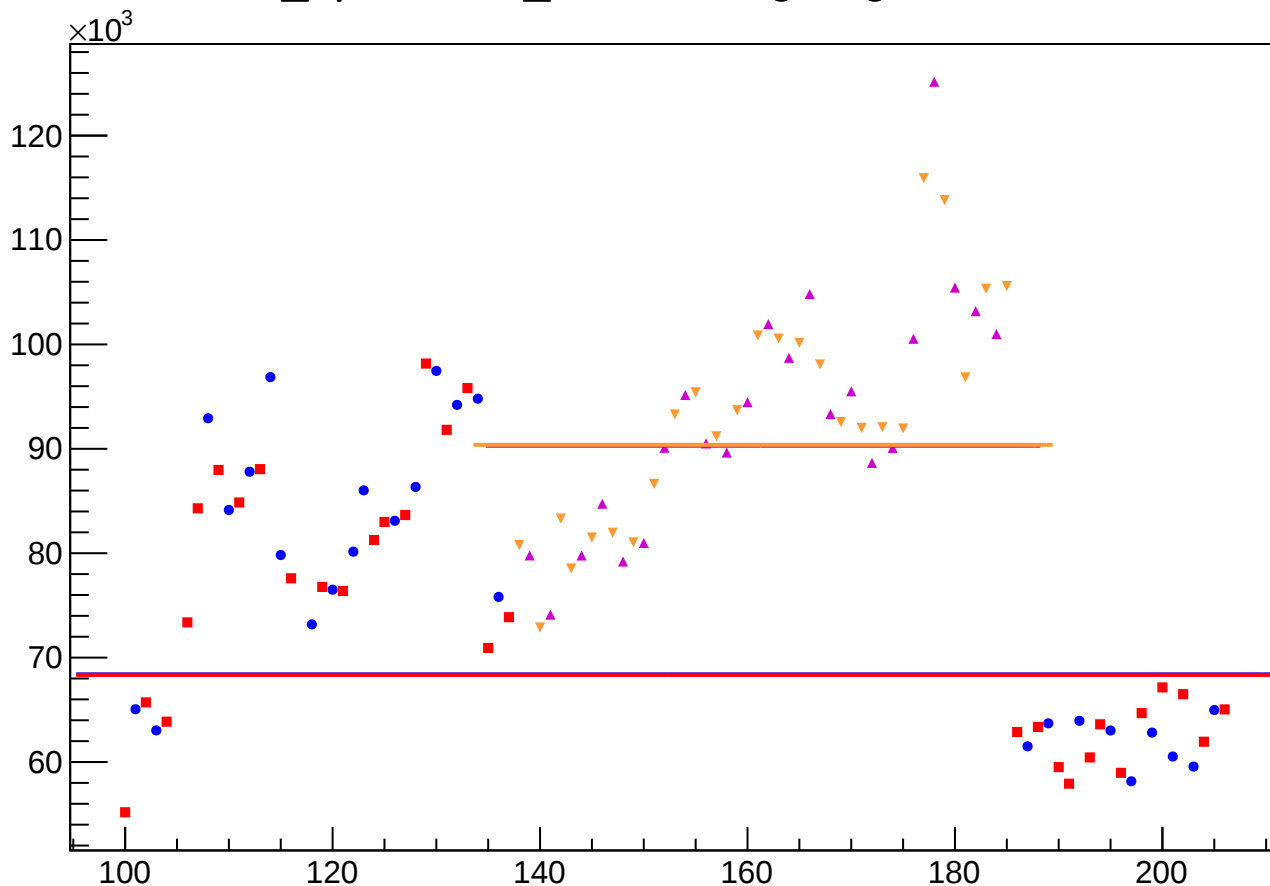
Right: -5.912 ± 13.053 $\chi^2/\text{NDF}: 87.1/56$

In: 27.895 ± 14.429 $\chi^2/\text{NDF}: 61.2/48$

Out: -28.447 ± 13.629 $\chi^2/\text{NDF}: 73.1/55$

All: -1.882 ± 9.908 $\chi^2/\text{NDF}: 142.3/104$

diff_bpm0r05X_rms vs Slug, Sign Corrected



Right In: 68399.050 ± 13.589 $\chi^2/\text{NDF}: 608764.6/25$

Left Out: 90384.853 ± 15.000 $\chi^2/\text{NDF}: 461648.2/24$

Right Out: 68348.197 ± 12.576 $\chi^2/\text{NDF}: 604751.8/30$

Left In: 90293.591 ± 15.448 $\chi^2/\text{NDF}: 461337.5/22$

Left: 90340.563 ± 10.761 $\chi^2/\text{NDF}: 923003.7/47$

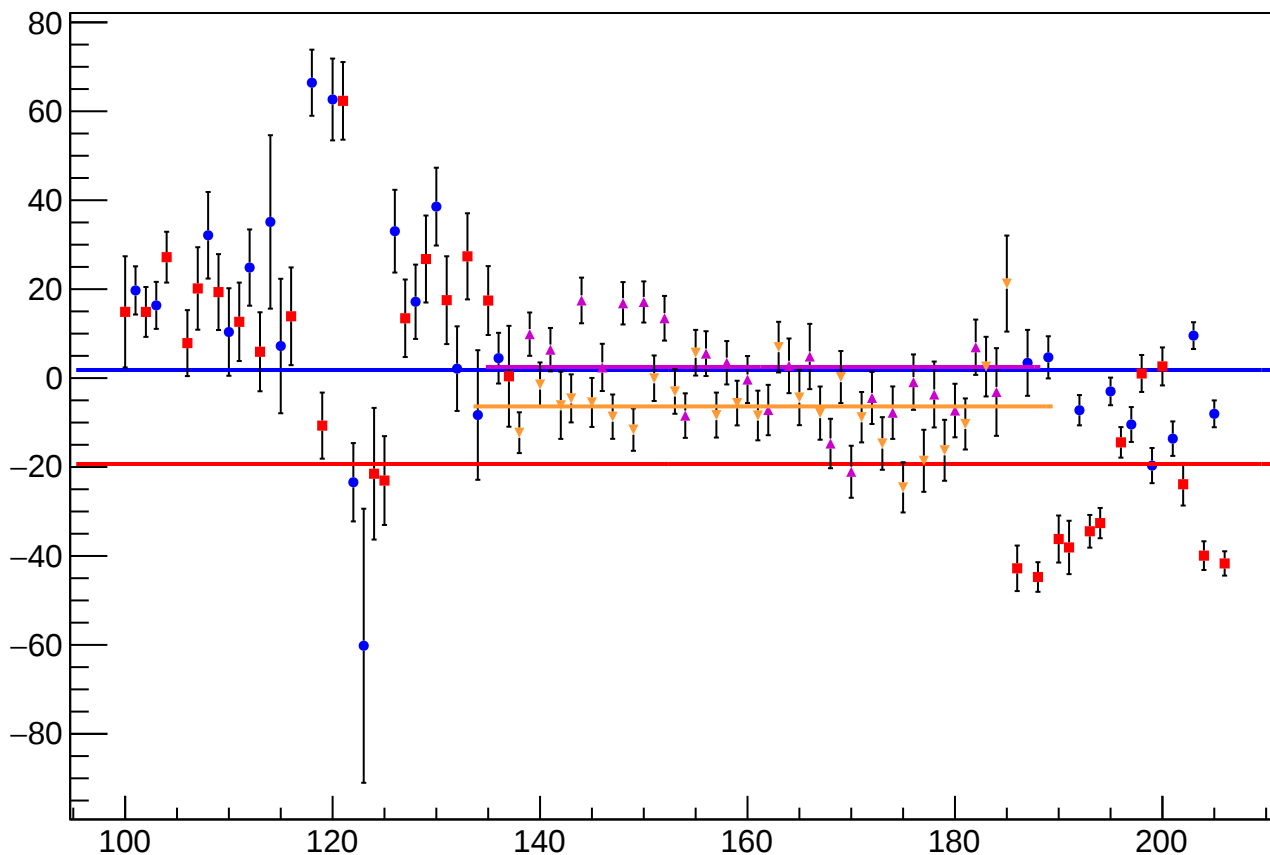
Right: 68371.657 ± 9.230 $\chi^2/\text{NDF}: 1213523.9/56$

In: 77950.786 ± 10.203 $\chi^2/\text{NDF}: 2202582.9/48$

Out: 77444.339 ± 9.637 $\chi^2/\text{NDF}: 2333811.7/55$

All: 77683.126 ± 7.006 $\chi^2/\text{NDF}: 4537696.8/103$

diff_bpm0r05Y_mean vs Slug, Sign Corrected



Right In: 1.823 $\pm$ 1.049 χ^2/NDF : 286.0/25

Left Out: -6.370 $\pm$ 1.124 χ^2/NDF : 45.5/24

Right Out: -19.313 $\pm$ 0.960 χ^2/NDF : 673.8/30

Left In: 2.501 $\pm$ 1.156 χ^2/NDF : 78.4/22

Left: -2.059 $\pm$ 0.806 χ^2/NDF : 154.1/47

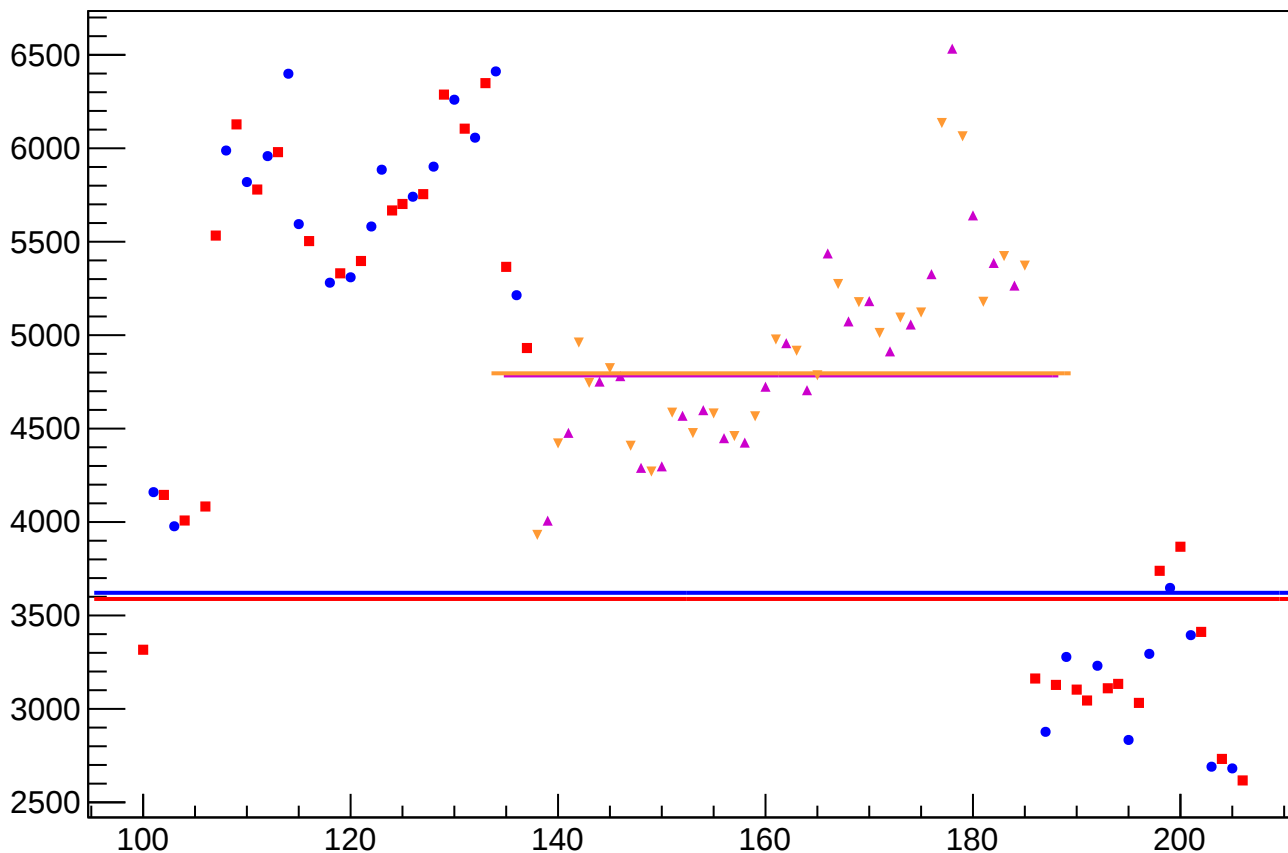
Right: -9.672 $\pm$ 0.708 χ^2/NDF : 1180.6/56

In: 2.129 $\pm$ 0.777 χ^2/NDF : 364.6/48

Out: -13.850 $\pm$ 0.730 χ^2/NDF : 795.9/55

All: -6.353 $\pm$ 0.532 χ^2/NDF : 1385.1/104

diff_bpm0r05Y_rms vs Slug, Sign Corrected



Right In: 3621.239 $\pm$ 0.742 χ^2 /NDF: 2134028.6/25

Left Out: 4795.847 $\pm$ 0.795 χ^2 /NDF:361249.7/24

Right Out: 3588.293 $\pm$ 0.679 χ^2 /NDF: 2275055.6/30

Left In: 4784.434 $\pm$ 0.817 χ^2 /NDF:357507.2/22

Left: 4790.301 $\pm$ 0.570 χ^2 /NDF: 718857.1/47

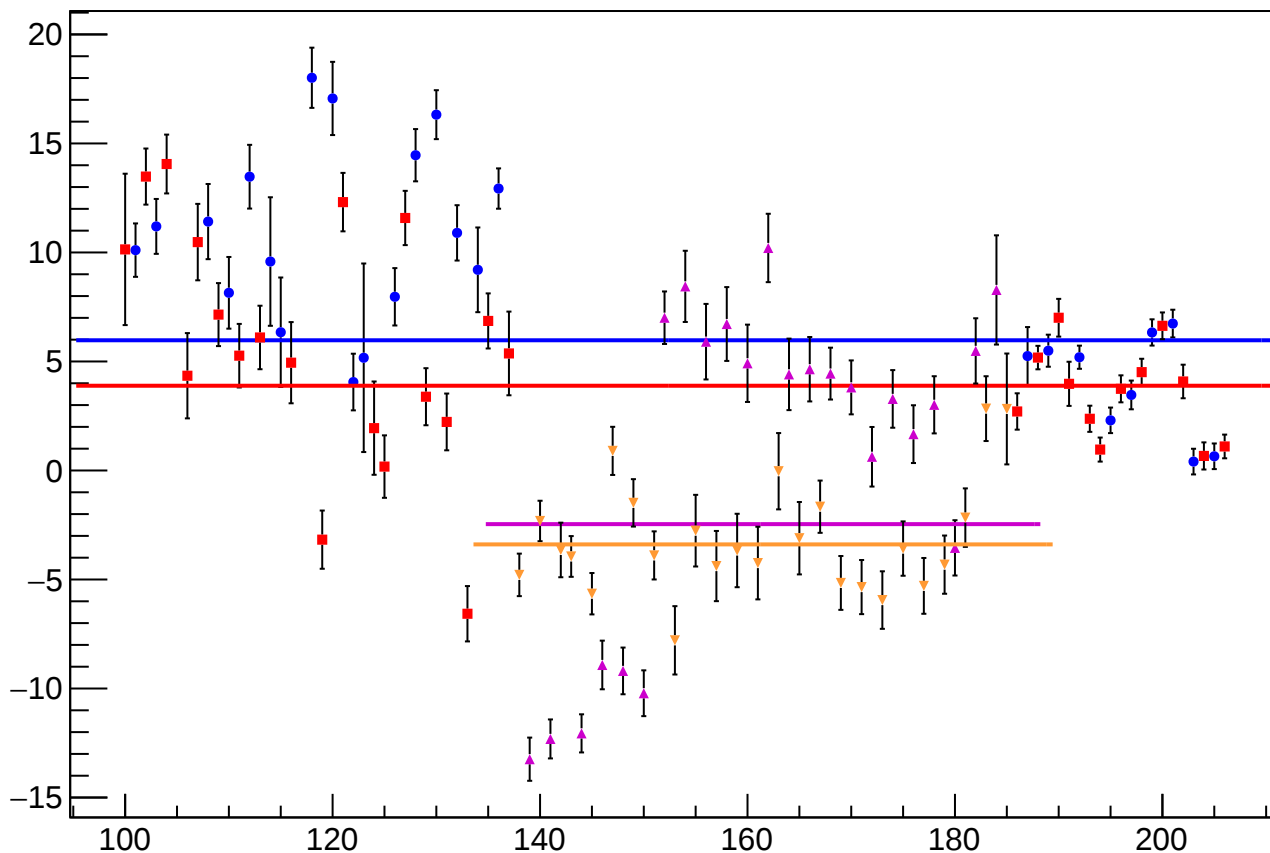
Right: 3603.322 $\pm$ 0.501 χ^2 /NDF: 4410157.7/56

In: 4146.411 $\pm$ 0.549 χ^2 /NDF:3602410.5/48

Out: 4097.994 $\pm$ 0.516 χ^2 /NDF:3970655.5/55

All: 4120.708 $\pm$ 0.376 χ^2 /NDF: 7577191.7/100

diff_bpm2i01X_mean vs Slug, Sign Corrected



Right In: 5.972 ± 0.181 χ^2/NDF : 631.6/25

Left Out: -3.390 ± 0.252 χ^2/NDF : 77.7/24

Right Out: 3.887 ± 0.163 χ^2/NDF : 457.0/30

Left In: -2.461 ± 0.264 χ^2/NDF : 928.0/22

Left: -2.947 ± 0.183 χ^2/NDF : 1012.2/47

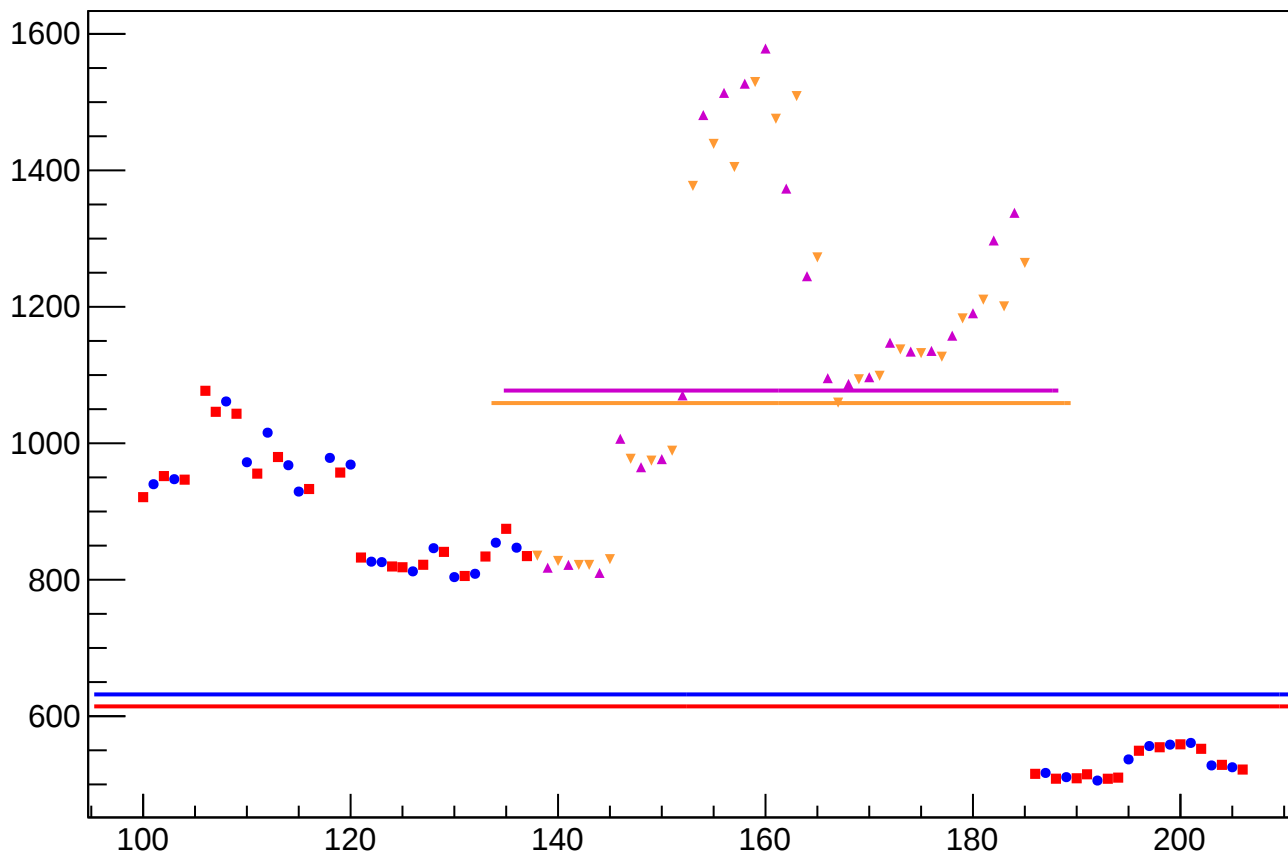
Right: 4.823 ± 0.121 χ^2/NDF : 1161.9/56

In: 3.284 ± 0.149 χ^2/NDF : 2252.8/48

Out: 1.740 ± 0.137 χ^2/NDF : 1121.4/55

All: 2.446 ± 0.101 χ^2/NDF : 3432.3/104

diff_bpm2i01X_rms vs Slug, Sign Corrected



Right In: 631.924 $\pm$ 0.128 χ^2 /NDF: 1675807.2/25

Left Out: 1058.941 $\pm$ 0.178 χ^2 /NDF: 1403222.2/24

Right Out: 614.369 $\pm$ 0.115 χ^2 /NDF: 2007053.6/30

Left In: 1077.284 $\pm$ 0.187 χ^2 /NDF: 1280349.9/22

Left: 1067.683 $\pm$ 0.129 χ^2 /NDF: 2688612.0/47

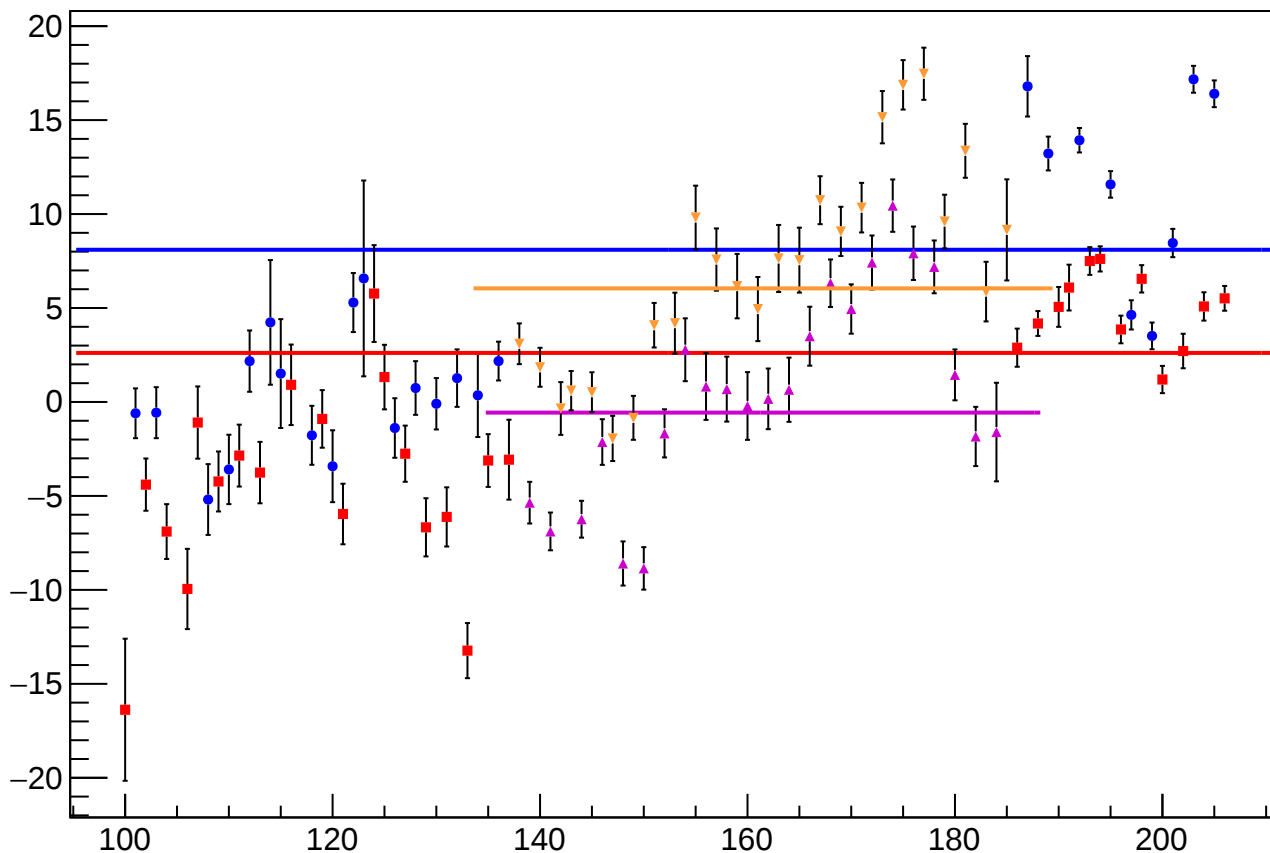
Right: 622.250 $\pm$ 0.086 χ^2 /NDF: 3693248.5/56

In: 773.874 $\pm$ 0.106 χ^2 /NDF: 6823052.1/48

Out: 745.563 $\pm$ 0.097 χ^2 /NDF: 7789180.1/55

All: 758.513 $\pm$ 0.071 χ^2 /NDF: 14651280.9/100

diff_bpm2i01Y_mean vs Slug, Sign Corrected



Right In: 8.100 ± 0.215 $\chi^2/\text{NDF}: 960.7/25$

Left Out: 6.045 ± 0.272 $\chi^2/\text{NDF}: 430.8/24$

Right Out: 2.611 ± 0.195 $\chi^2/\text{NDF}: 617.3/30$

Left In: -0.566 ± 0.284 $\chi^2/\text{NDF}: 417.0/22$

Left: 2.888 ± 0.196 $\chi^2/\text{NDF}: 1130.7/47$

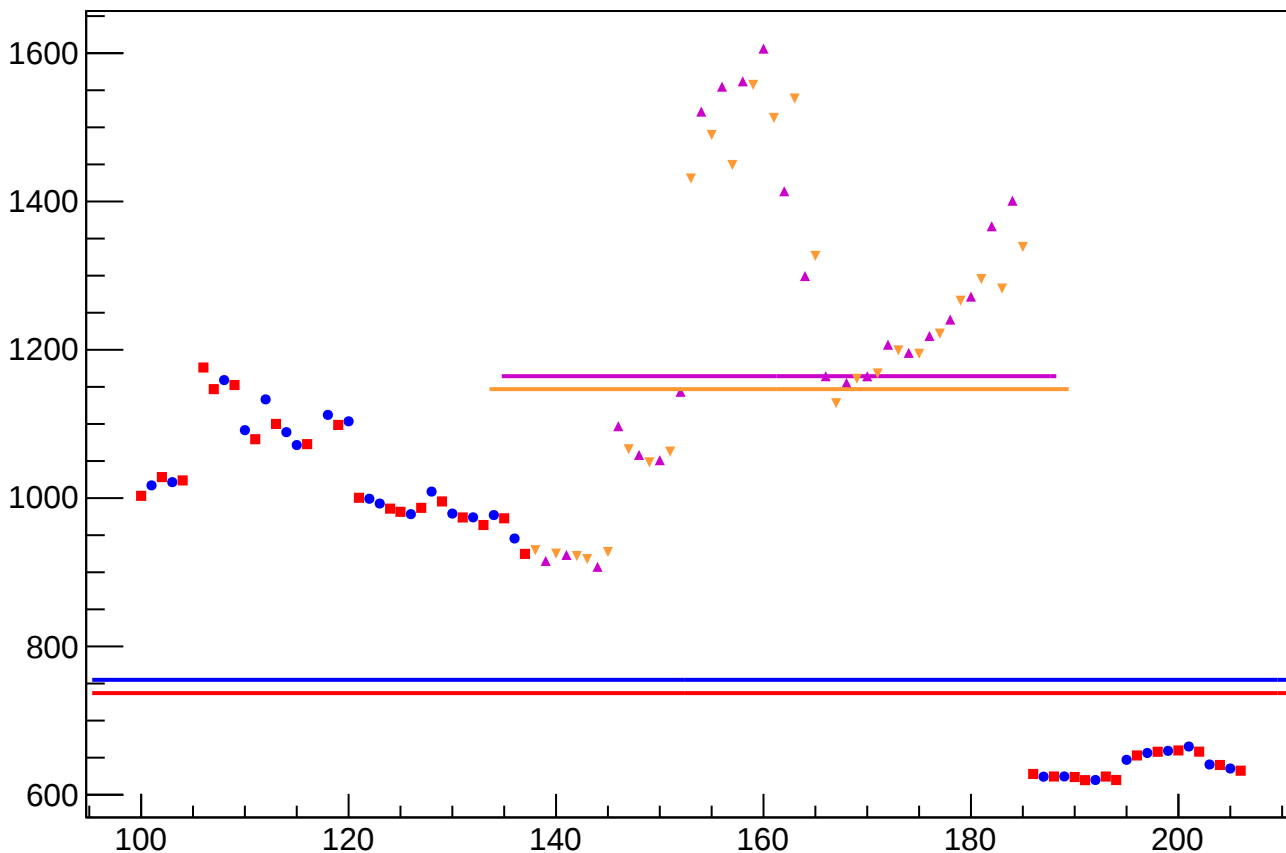
Right: 5.085 ± 0.144 $\chi^2/\text{NDF}: 1937.0/56$

In: 4.950 ± 0.171 $\chi^2/\text{NDF}: 1969.8/48$

Out: 3.775 ± 0.158 $\chi^2/\text{NDF}: 1153.8/55$

All: 4.315 ± 0.116 $\chi^2/\text{NDF}: 3149.0/104$

diff_bpm2i01Y_rms vs Slug, Sign Corrected



Right In: 754.964+/-0.152 χ^2/NDF : 1366606.3/25

Left Out: 1146.960+/-0.192 χ^2/NDF : 1045761.4/24

Right Out: 737.061+/-0.138 χ^2/NDF : 1621336.2/30

Left In: 1164.432+/-0.201 χ^2/NDF : 944112.0/22

Left: 1155.305+/-0.139 χ^2/NDF : 1993824.0/47

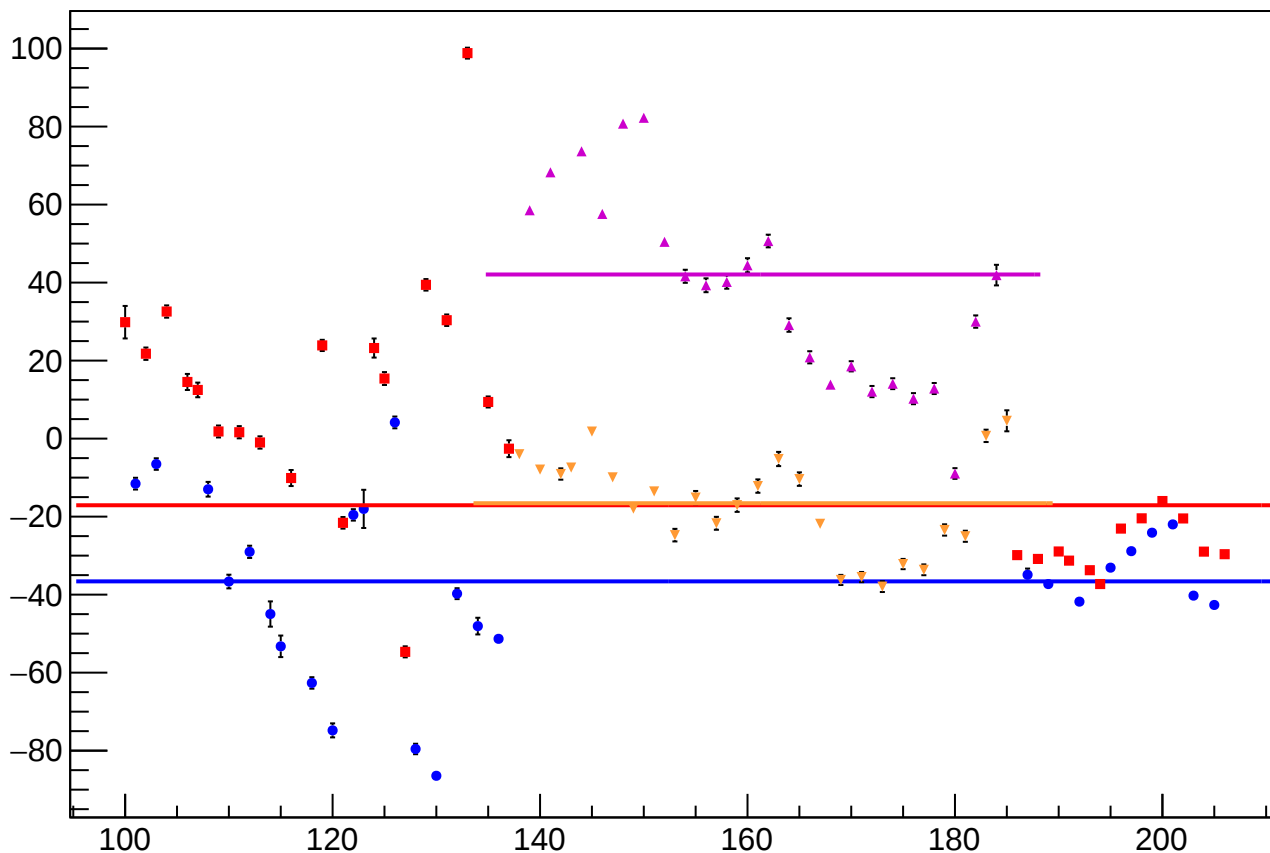
Right: 745.131+/-0.102 χ^2/NDF : 2995579.4/56

In: 903.804+/-0.121 χ^2/NDF : 4954720.1/48

Out: 875.984+/-0.112 χ^2/NDF : 5676972.0/55

All: 888.786+/-0.082 χ^2/NDF : 10660167.7/10

diff_bpm2i02X_mean vs Slug, Sign Corrected



Right In: -36.599 ± 0.211 χ^2/NDF : 6282.6/25

Left Out: -16.567 ± 0.275 χ^2/NDF : 1931.2/24

Right Out: -17.086 ± 0.191 χ^2/NDF : 17671.1/30

Left In: 42.077 ± 0.289 χ^2/NDF : 8332.3/22

Left: 11.318 ± 0.199 χ^2/NDF : 31846.5/47

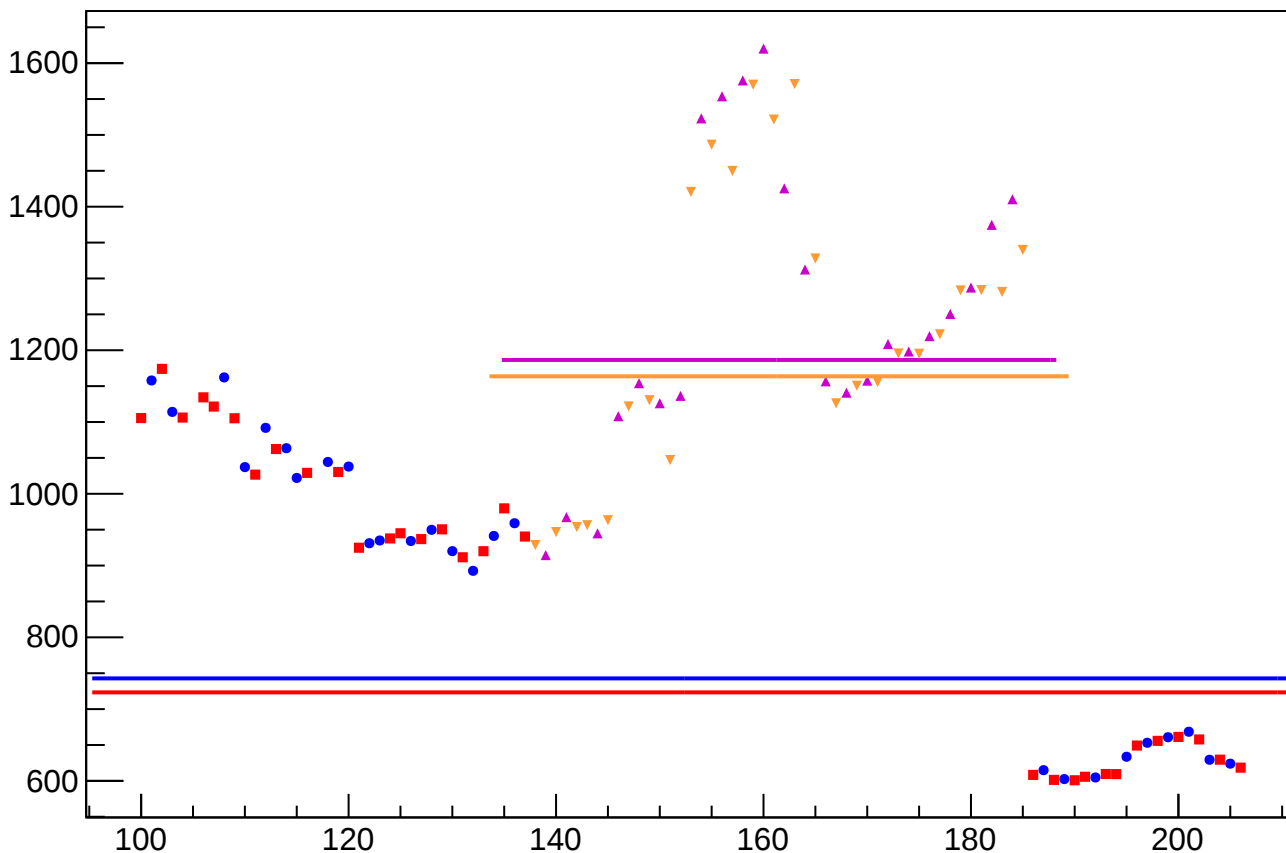
Right: -25.858 ± 0.142 χ^2/NDF : 28650.0/56

In: -9.210 ± 0.171 χ^2/NDF : 62896.2/48

Out: -16.918 ± 0.157 χ^2/NDF : 19604.7/55

All: -13.386 ± 0.115 χ^2/NDF : 83607.1/104

diff_bpm2i02X_rms vs Slug, Sign Corrected



Right In: 742.788 $\pm$ 0.149 χ^2 /NDF: 1379982.3/25

Left Out: 1163.691 $\pm$ 0.195 χ^2 /NDF: 936079.1/24

Right Out: 723.306 $\pm$ 0.135 χ^2 /NDF: 1637779.1/30

Left In: 1186.476 $\pm$ 0.204 χ^2 /NDF: 833420.3/22

Left: 1174.525 $\pm$ 0.141 χ^2 /NDF: 1776015.7/47

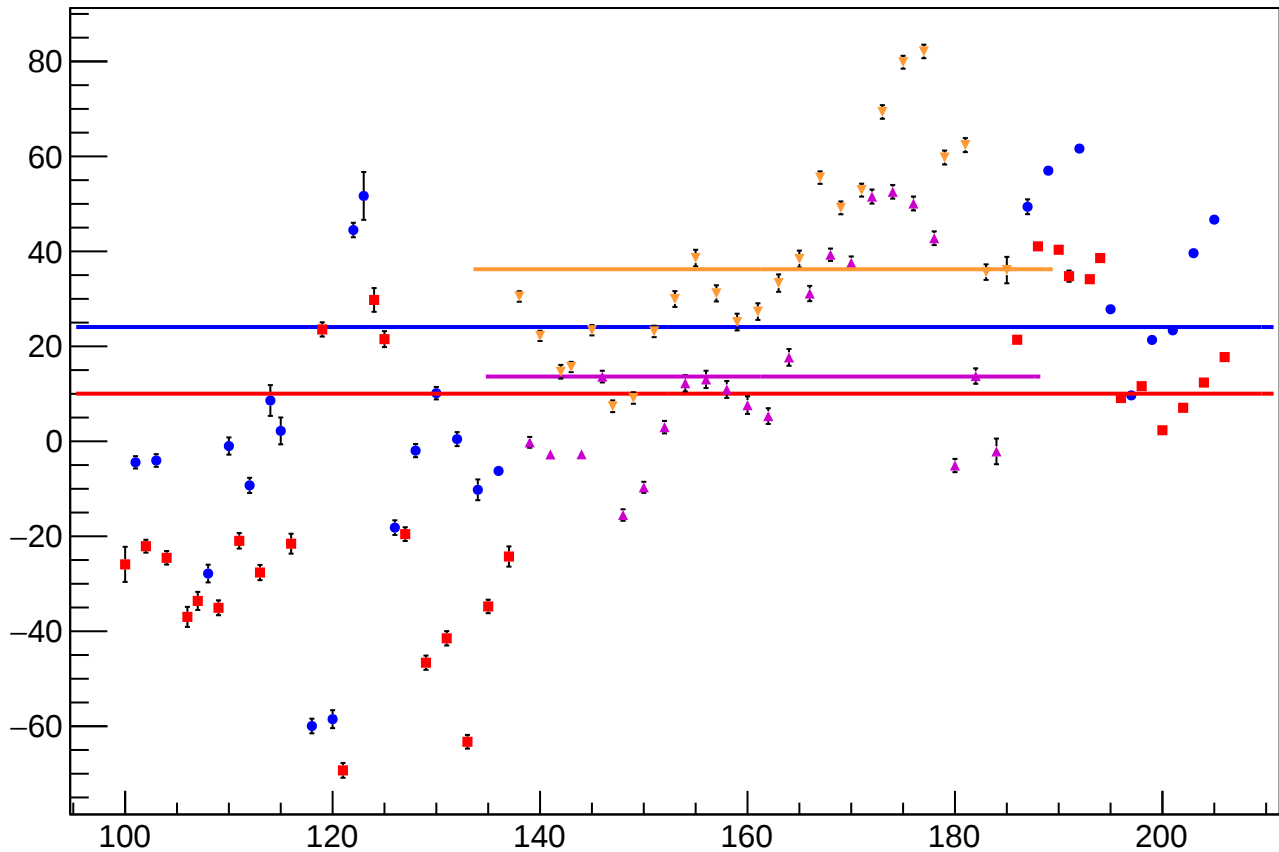
Right: 732.063 $\pm$ 0.100 χ^2 /NDF: 3027124.1/56

In: 897.245 $\pm$ 0.121 χ^2 /NDF: 5284402.4/48

Out: 866.333 $\pm$ 0.111 χ^2 /NDF: 6030501.4/55

All: 880.498 $\pm$ 0.082 χ^2 /NDF: 11350490.9/10

diff_bpm2i02Y_mean vs Slug, Sign Corrected



Right In: 24.066 $\pm$ 0.209 χ^2/NDF : 17311.2/25

Left Out: 36.234 $\pm$ 0.280 χ^2/NDF : 5794.2/24

Right Out: 10.035 $\pm$ 0.189 χ^2/NDF : 21040.9/30

Left In: 13.640 $\pm$ 0.293 χ^2/NDF : 5178.0/22

Left: 25.447 $\pm$ 0.202 χ^2/NDF : 14084.0/47

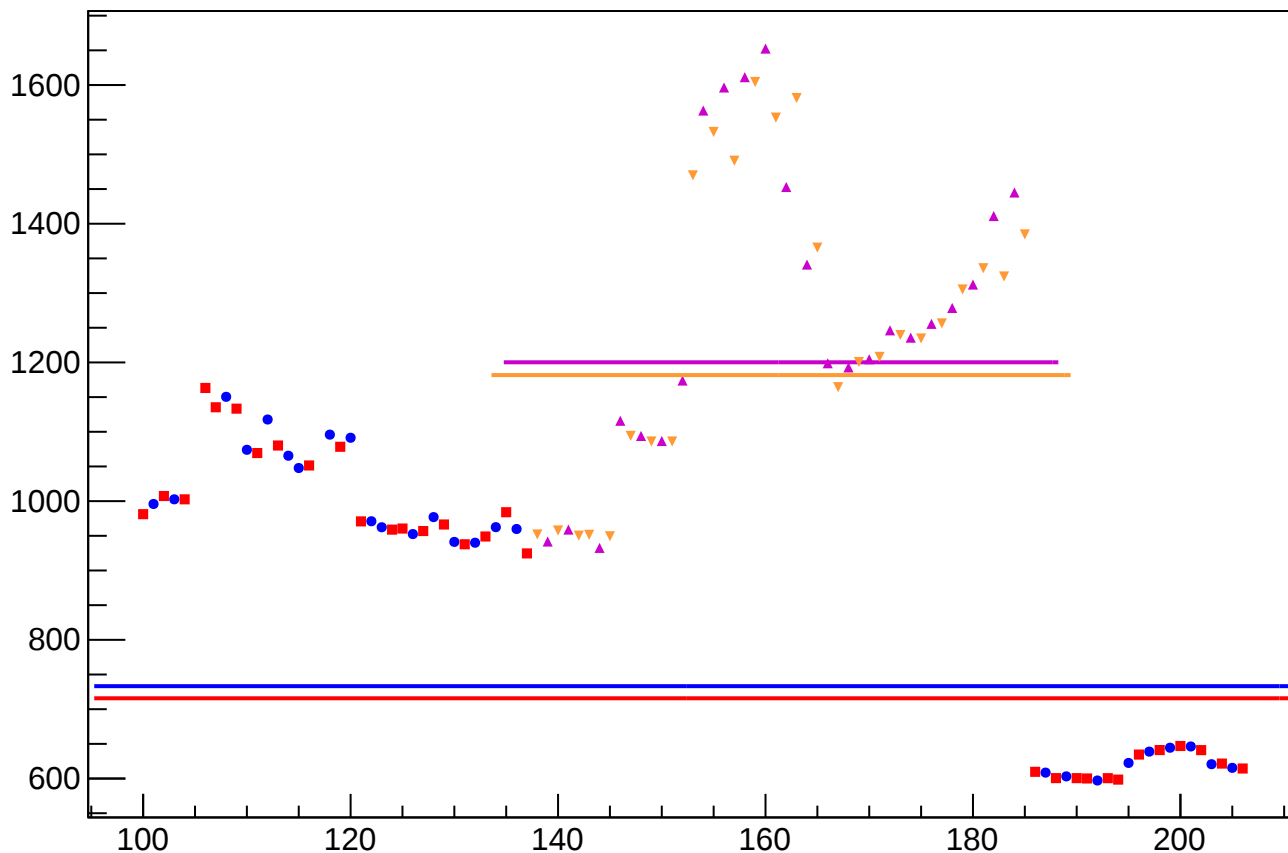
Right: 16.358 $\pm$ 0.140 χ^2/NDF : 40832.9/56

In: 20.551 $\pm$ 0.170 χ^2/NDF : 23329.7/48

Out: 18.247 $\pm$ 0.157 χ^2/NDF : 32851.4/55

All: 19.306 $\pm$ 0.115 χ^2/NDF : 56280.5/104

diff_bpm2i02Y_rms vs Slug, Sign Corrected



Right In: 733.198 $\pm$ 0.148 χ^2 /NDF: 1443753.7/25

Left Out: 1181.732 $\pm$ 0.198 χ^2 /NDF:1043520.8/24

Right Out: 715.747 $\pm$ 0.134 χ^2 /NDF: 1702862.7/30

Left In: 1200.198 $\pm$ 0.207 χ^2 /NDF:938224.7/22

Left: 1190.549 $\pm$ 0.143 χ^2 /NDF: 1985902.3/47

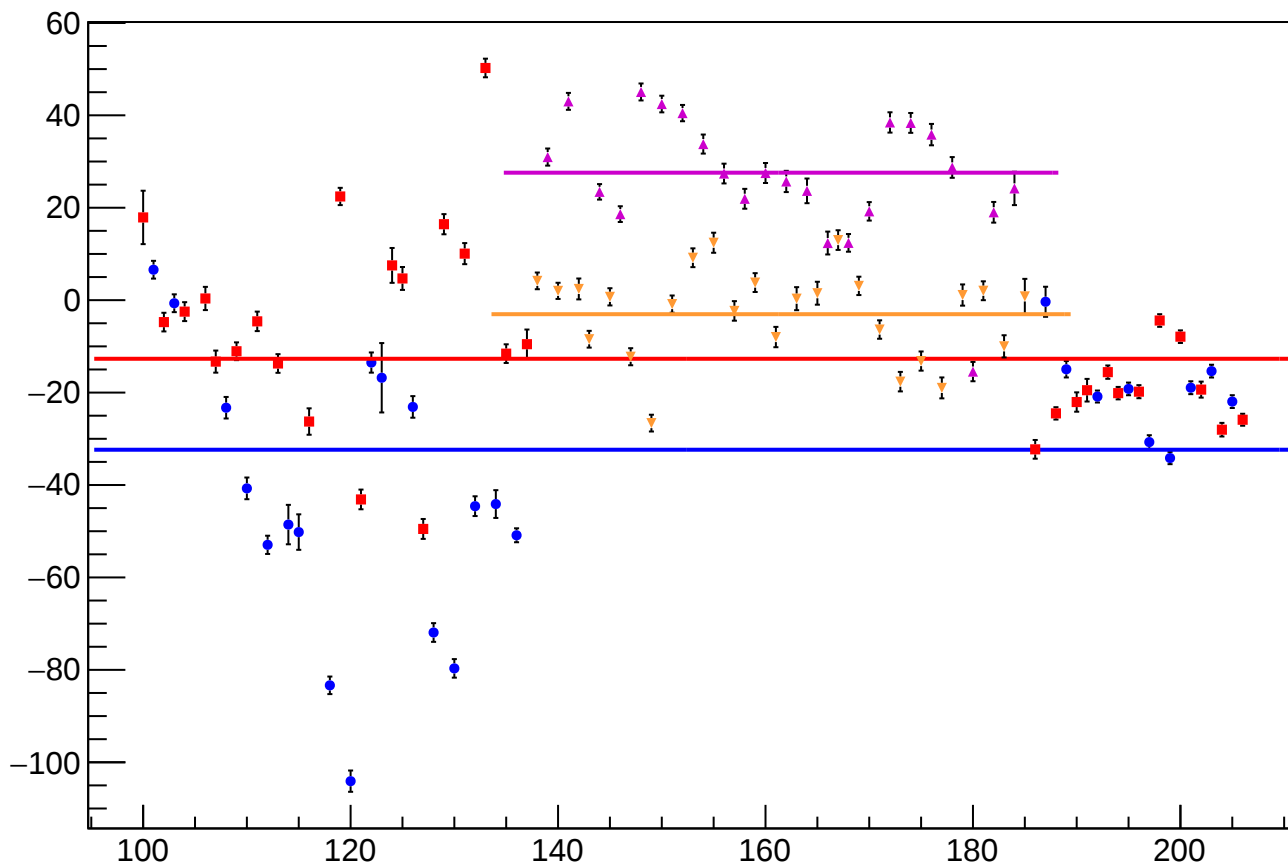
Right: 723.611 $\pm$ 0.099 χ^2 /NDF: 3154291.7/56

In: 890.628 $\pm$ 0.120 χ^2 /NDF:5754728.4/48

Out: 861.817 $\pm$ 0.111 χ^2 /NDF:6552771.6/55

All: 875.051 $\pm$ 0.081 χ^2 /NDF: 12338558.4/100

diff_bpm0i02X_mean vs Slug, Sign Corrected



Right In: -32.366 ± 0.364 $\chi^2/\text{NDF}: 4441.3/25$

Left Out: -3.037 ± 0.415 $\chi^2/\text{NDF}: 555.6/24$

Right Out: -12.684 ± 0.336 $\chi^2/\text{NDF}: 2851.1/30$

Left In: 27.583 ± 0.429 $\chi^2/\text{NDF}: 960.1/22$

Left: 11.767 ± 0.298 $\chi^2/\text{NDF}: 4146.6/47$

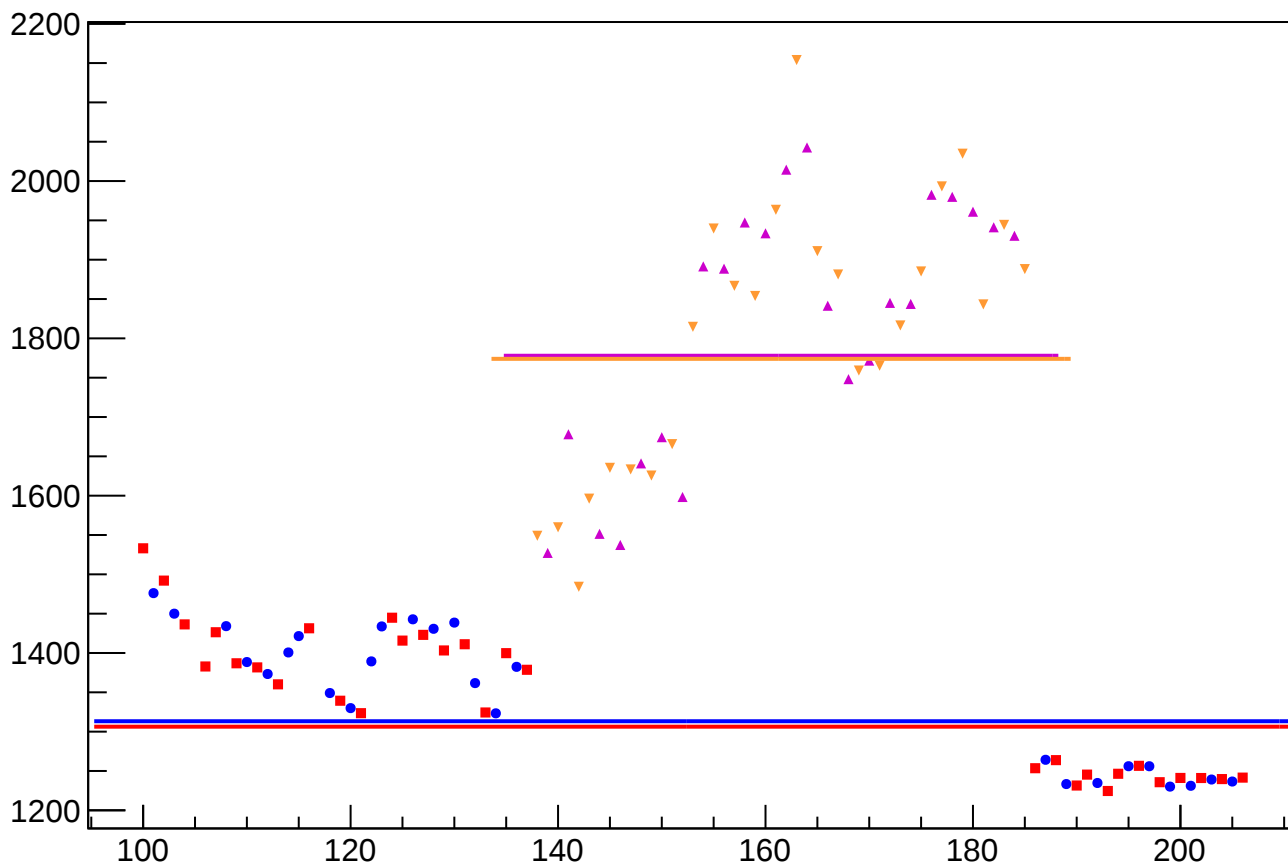
Right: -21.736 ± 0.247 $\chi^2/\text{NDF}: 8869.8/56$

In: -7.260 ± 0.278 $\chi^2/\text{NDF}: 16749.5/48$

Out: -8.864 ± 0.261 $\chi^2/\text{NDF}: 3732.9/55$

All: -8.111 ± 0.190 $\chi^2/\text{NDF}: 20500.2/104$

diff_bpm0i02X_rms vs Slug, Sign Corrected



Right In: 1313.228 $\pm$ 0.258 χ^2 /NDF: 110758.9/25

Left Out: 1773.965 $\pm$ 0.294 χ^2 /NDF: 313031.1/24

Right Out: 1306.320 $\pm$ 0.238 χ^2 /NDF: 115092.8/30

Left In: 1777.884 $\pm$ 0.303 χ^2 /NDF: 299514.0/22

Left: 1775.860 $\pm$ 0.211 χ^2 /NDF: 612631.3/47

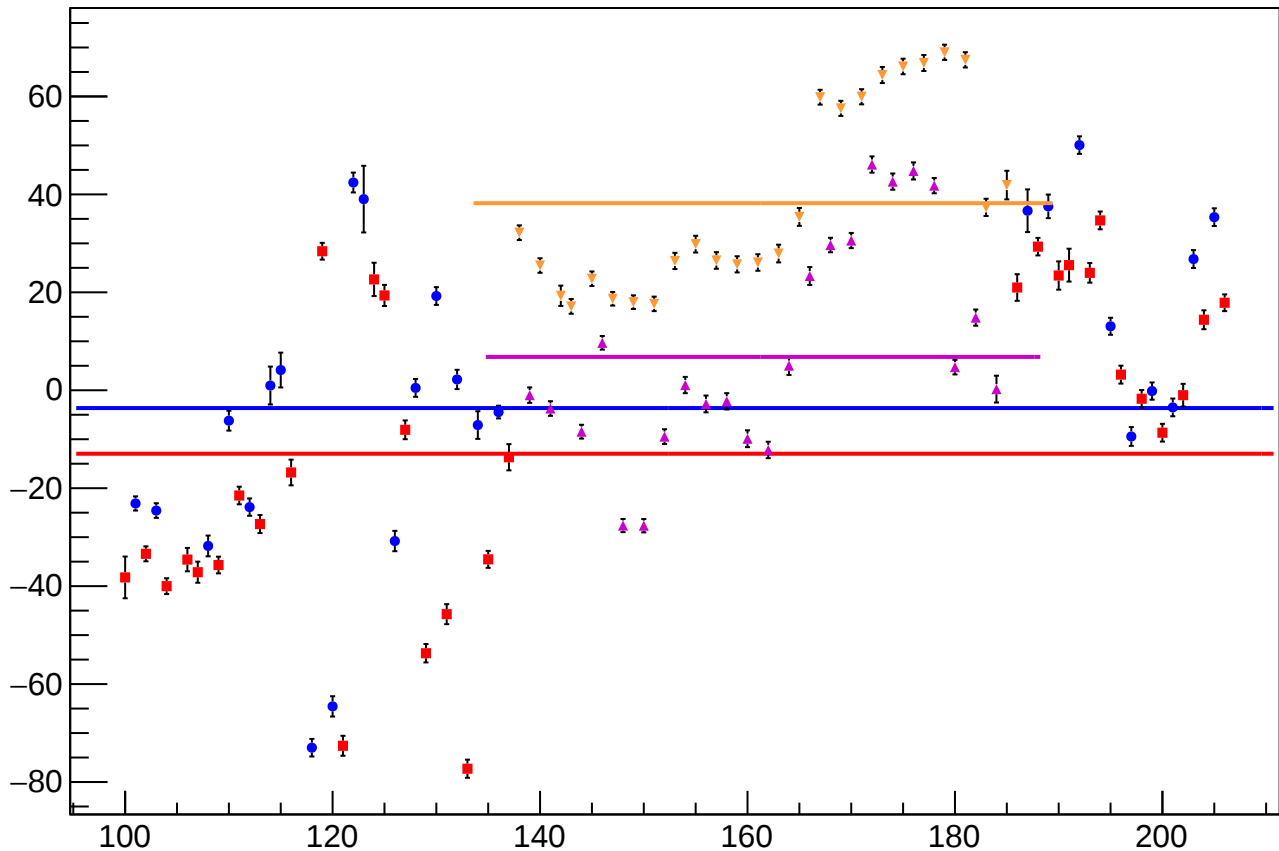
Right: 1309.497 $\pm$ 0.175 χ^2 /NDF: 226240.4/56

In: 1507.823 $\pm$ 0.196 χ^2 /NDF: 1773784.8/48

Out: 1491.496 $\pm$ 0.185 χ^2 /NDF: 1961487.9/55

All: 1499.162 $\pm$ 0.135 χ^2 /NDF: 3738941.7/10

diff_bpm0i02Y_mean vs Slug, Sign Corrected



Right In: -3.634 ± 0.382 χ^2/NDF : 6079.7/25

Left Out: 38.206 ± 0.323 χ^2/NDF : 3514.2/24

Right Out: -12.961 ± 0.360 χ^2/NDF : 7541.1/30

Left In: 6.808 ± 0.333 χ^2/NDF : 4494.5/22

Left: 22.967 ± 0.232 χ^2/NDF : 12584.4/47

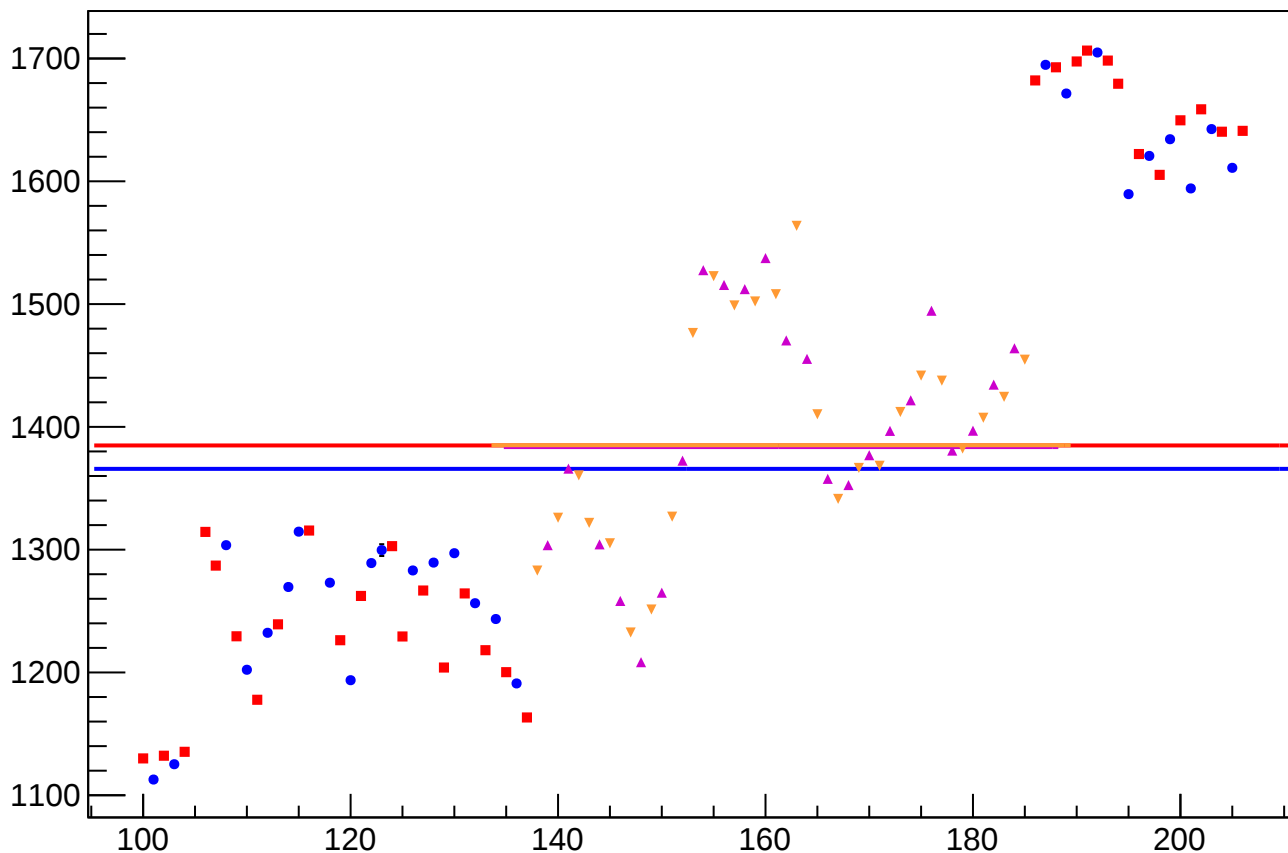
Right: -8.577 ± 0.262 χ^2/NDF : 13936.4/56

In: 2.303 ± 0.251 χ^2/NDF : 10998.6/48

Out: 15.356 ± 0.241 χ^2/NDF : 22236.0/55

All: 9.109 ± 0.174 χ^2/NDF : 34643.8/104

diff_bpm0i02Y_rms vs Slug, Sign Corrected



Right In: 1365.806 $\pm$ 0.270 χ^2 /NDF: 562736.9/25

Left Out: 1385.063 $\pm$ 0.229 χ^2 /NDF:146001.5/24

Right Out: 1384.871 $\pm$ 0.255 χ^2 /NDF: 735483.5/30

Left In: 1383.558 $\pm$ 0.235 χ^2 /NDF:154696.0/22

Left: 1384.333 $\pm$ 0.164 χ^2 /NDF: 300718.5/47

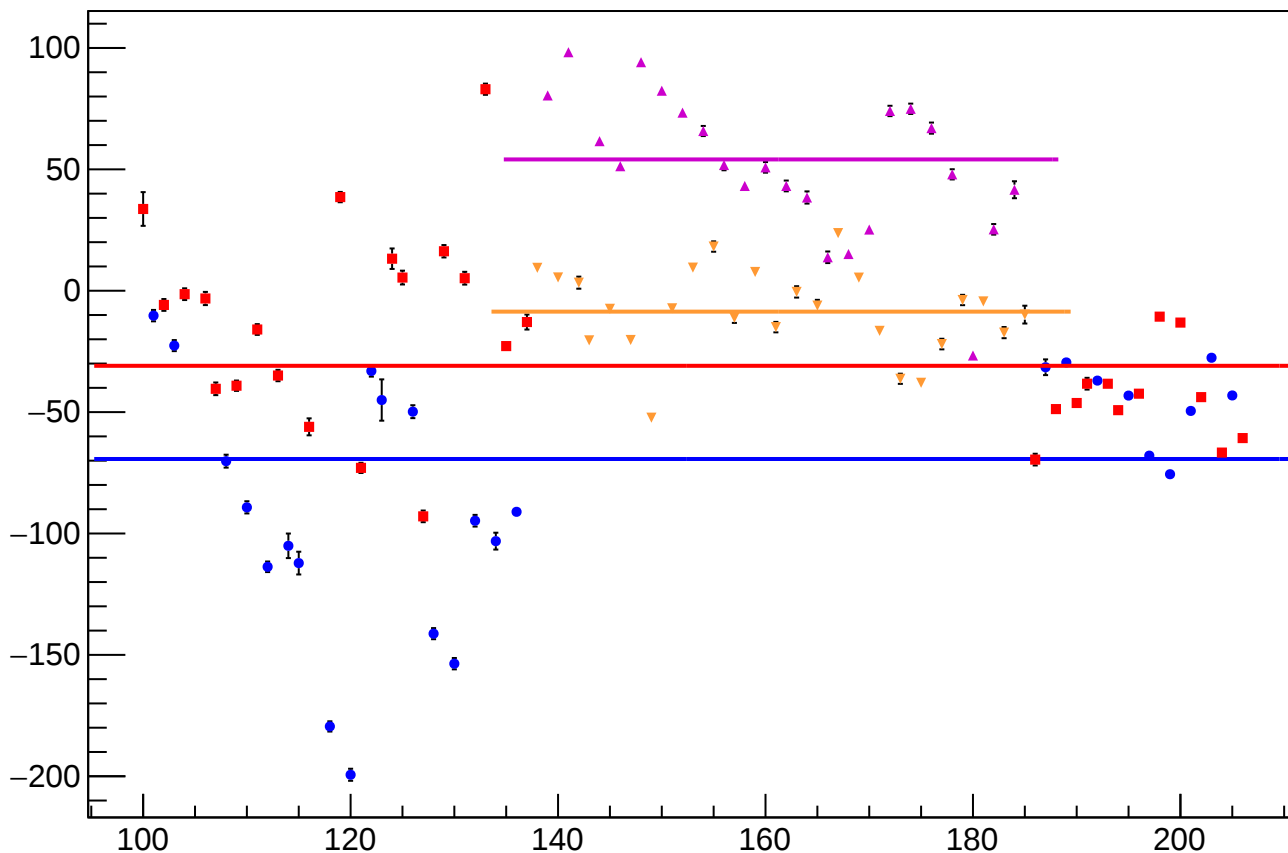
Right: 1375.910 $\pm$ 0.185 χ^2 /NDF: 1300857.1/56

In: 1375.899 $\pm$ 0.178 χ^2 /NDF:719885.2/48

Out: 1384.978 $\pm$ 0.170 χ^2 /NDF:881485.3/55

All: 1380.632 $\pm$ 0.123 χ^2 /NDF: 1602733.9/100

diff_bpm0i02aX_mean vs Slug, Sign Corrected



Right In: -69.309 ± 0.404 χ^2/NDF : 12783.5/25

Left Out: -8.606 ± 0.410 χ^2/NDF : 1930.5/24

Right Out: -30.923 ± 0.370 χ^2/NDF : 7895.7/30

Left In: 54.089 ± 0.426 χ^2/NDF : 4721.6/22

Left: 21.586 ± 0.295 χ^2/NDF : 17900.0/47

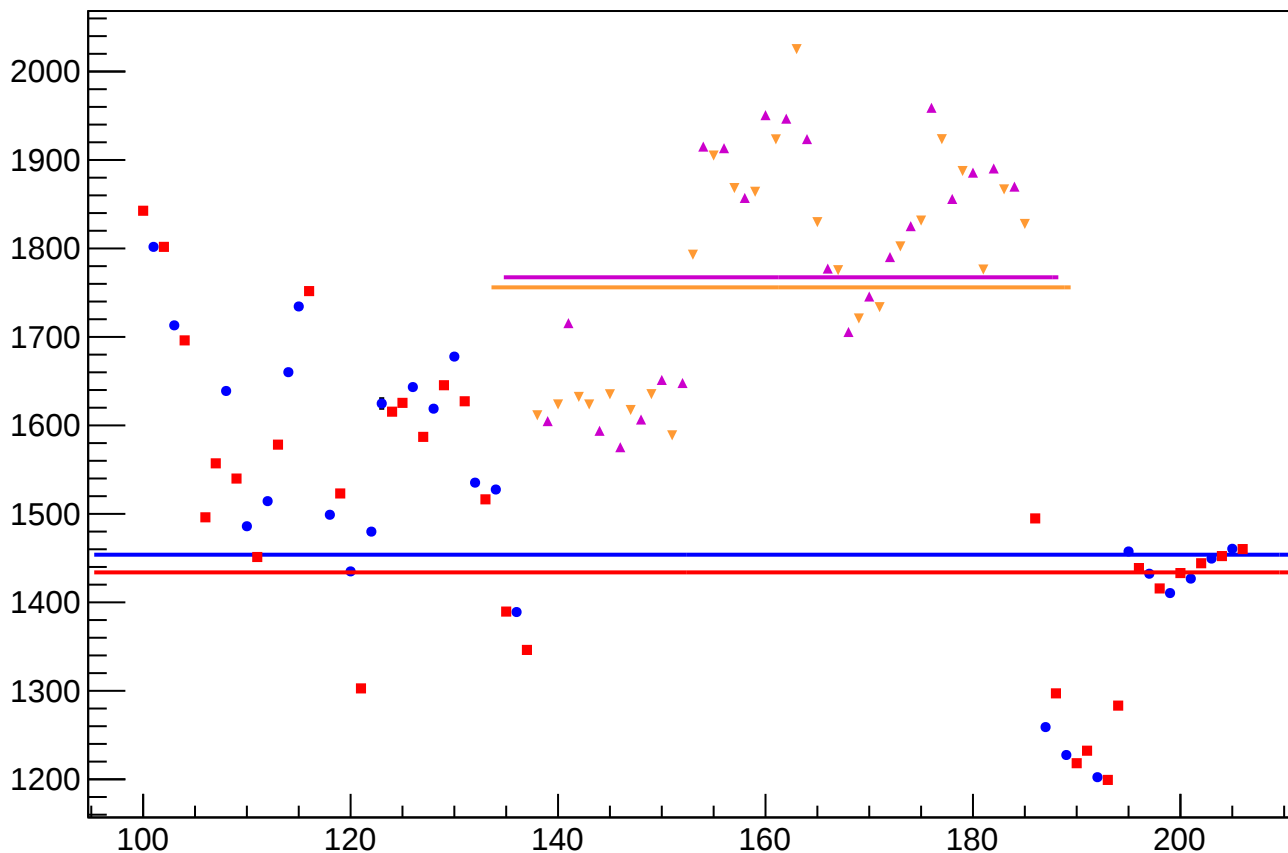
Right: -48.416 ± 0.273 χ^2/NDF : 25582.6/56

In: -10.761 ± 0.293 χ^2/NDF : 61675.9/48

Out: -20.910 ± 0.275 χ^2/NDF : 11458.1/55

All: -16.164 ± 0.200 χ^2/NDF : 73771.9/104

diff_bpm0i02aX_rms vs Slug, Sign Corrected



Right In: 1453.857 $\pm$ 0.286 χ^2 /NDF: 261532.9/25

Left Out: 1756.034 $\pm$ 0.290 χ^2 /NDF:175762.3/24

Right Out: 1433.870 $\pm$ 0.262 χ^2 /NDF: 308738.2/30

Left In: 1767.410 $\pm$ 0.301 χ^2 /NDF:187958.2/22

Left: 1761.512 $\pm$ 0.209 χ^2 /NDF: 364461.2/47

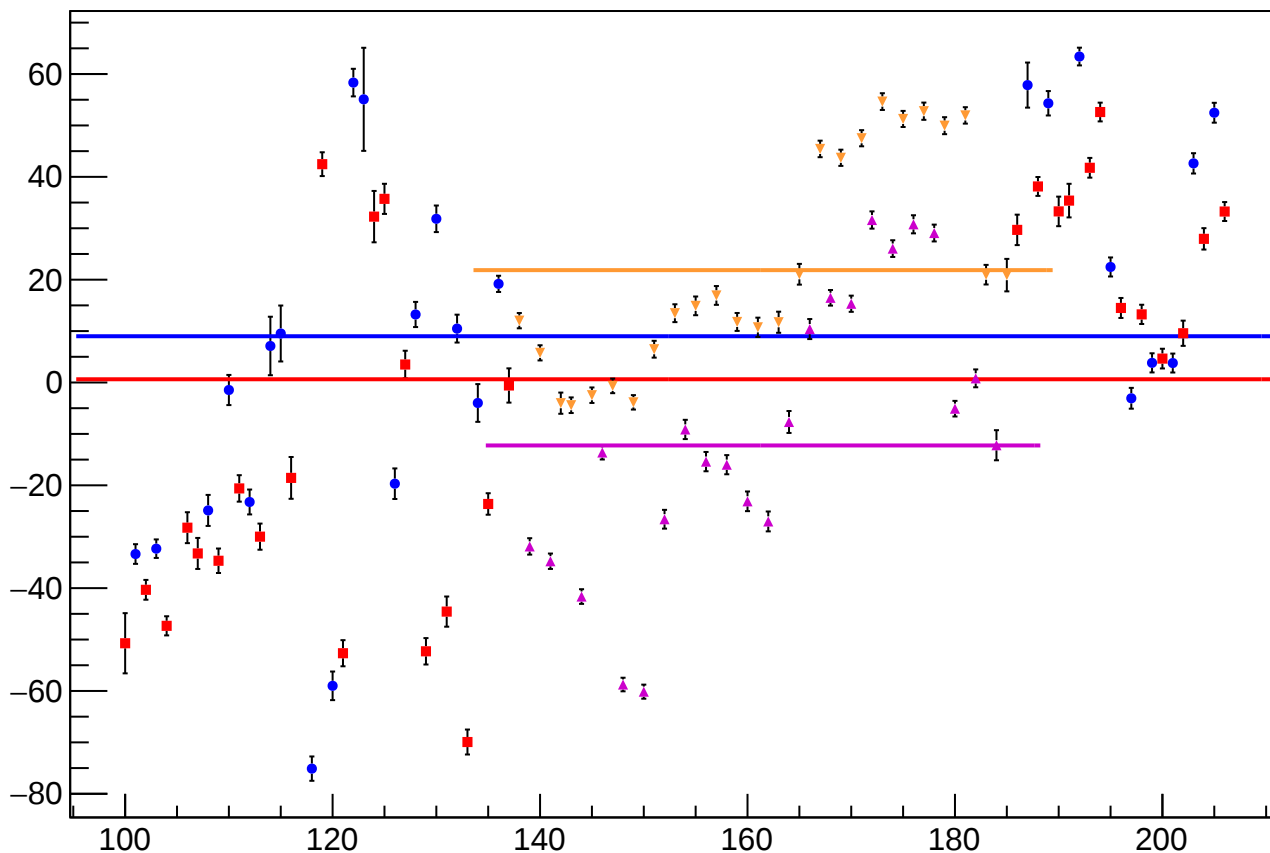
Right: 1442.978 $\pm$ 0.193 χ^2 /NDF: 572929.7/56

In: 1602.628 $\pm$ 0.207 χ^2 /NDF:1019879.4/48

Out: 1578.412 $\pm$ 0.194 χ^2 /NDF:1164596.9/55

All: 1589.736 $\pm$ 0.142 χ^2 /NDF: 2191740.5/10

diff_bpm0i02aY_mean vs Slug, Sign Corrected



Right In: 8.998 $\pm$ 0.459 χ^2 /NDF: 6162.9/25

Left Out: 21.856 $\pm$ 0.335 χ^2 /NDF:4110.5/24

Right Out: 0.628 $\pm$ 0.428 χ^2 /NDF: 7085.8/30

Left In: -12.246 $\pm$ 0.347 χ^2 /NDF:6781.6/22

Left: 5.391 $\pm$ 0.241 χ^2 /NDF: 15885.7/47

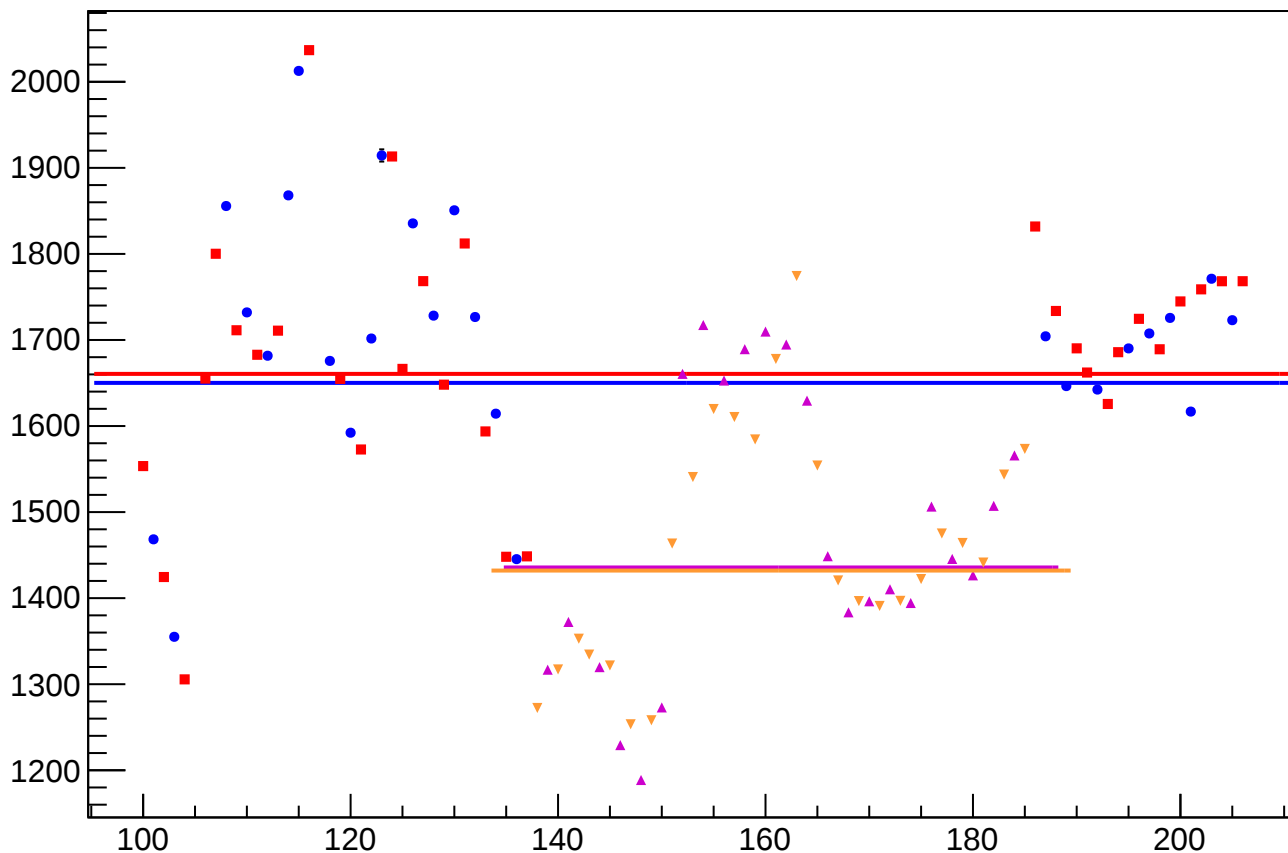
Right: 4.523 $\pm$ 0.313 χ^2 /NDF: 13426.6/56

In: -4.516 $\pm$ 0.277 χ^2 /NDF:14307.9/48

Out: 13.785 $\pm$ 0.264 χ^2 /NDF:12720.0/55

All: 5.068 $\pm$ 0.191 χ^2 /NDF: 29317.1/104

diff_bpm0i02aY_rms vs Slug, Sign Corrected



Right In: 1650.140 $\pm$ 0.324 χ^2 /NDF: 172429.9/25

Left Out: 1432.060 $\pm$ 0.237 χ^2 /NDF: 297360.3/24

Right Out: 1660.595 $\pm$ 0.303 χ^2 /NDF: 206134.3/30

Left In: 1435.645 $\pm$ 0.245 χ^2 /NDF: 420835.0/22

Left: 1433.791 $\pm$ 0.171 χ^2 /NDF: 718305.7/47

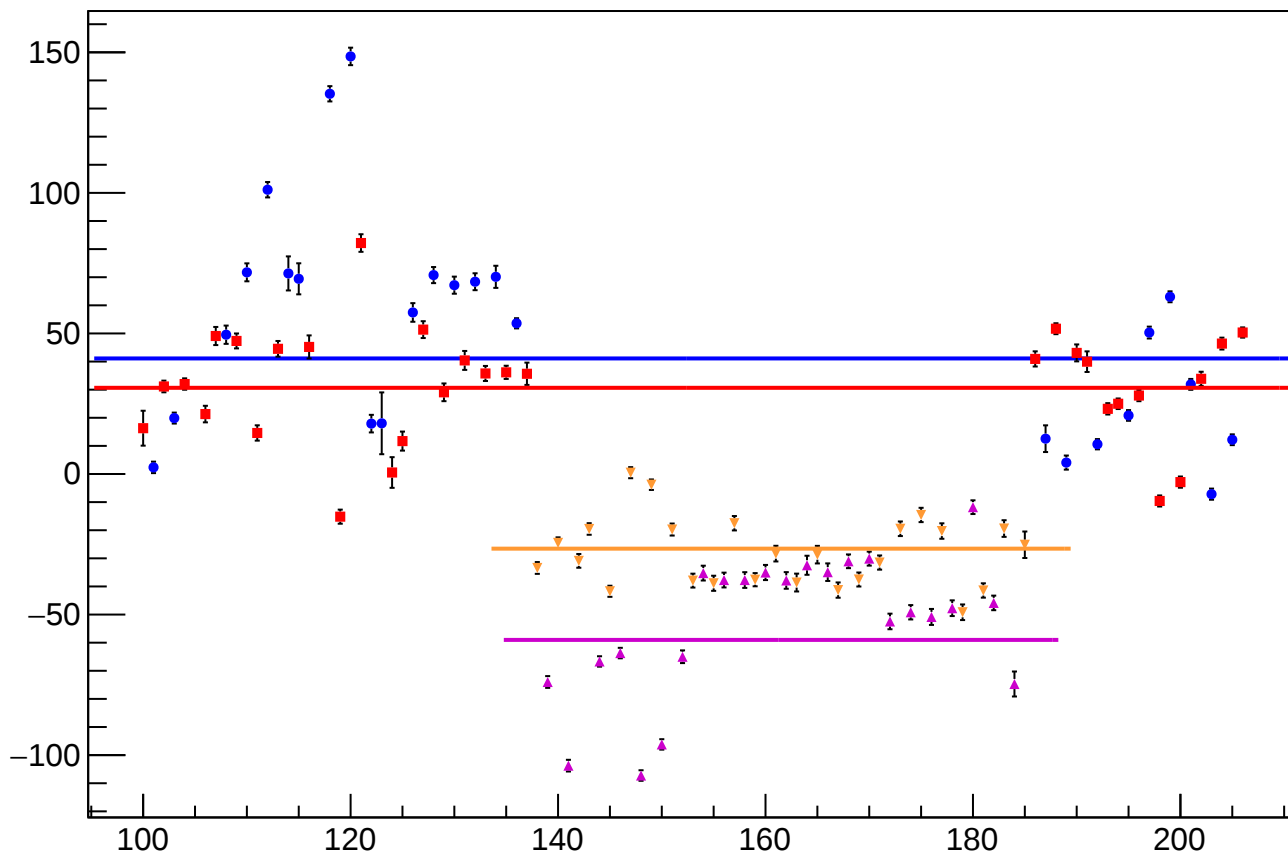
Right: 1655.729 $\pm$ 0.221 χ^2 /NDF: 379119.3/56

In: 1513.695 $\pm$ 0.196 χ^2 /NDF: 871254.8/48

Out: 1518.944 $\pm$ 0.187 χ^2 /NDF: 856684.3/55

All: 1516.444 $\pm$ 0.135 χ^2 /NDF: 1728315.7/100

diff_bpm0i05X_mean vs Slug, Sign Corrected



Right In: 41.106 $\pm$ 0.494 χ^2/NDF : 5585.8/25

Left Out: -26.554 $\pm$ 0.488 χ^2/NDF : 717.5/24

Right Out: 30.661 $\pm$ 0.456 χ^2/NDF : 1948.8/30

Left In: -59.014 $\pm$ 0.506 χ^2/NDF : 2783.8/22

Left: -42.178 $\pm$ 0.351 χ^2/NDF : 5632.2/47

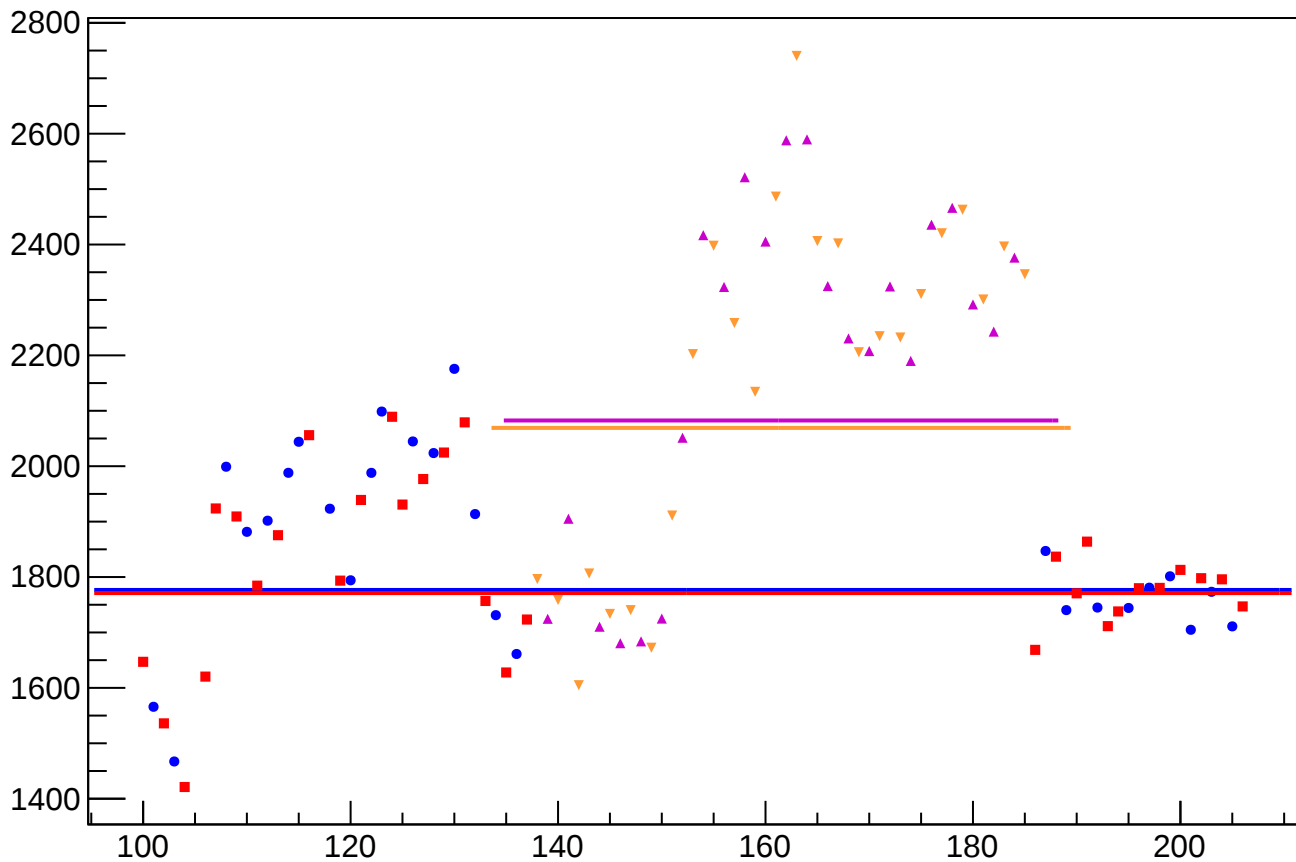
Right: 35.470 $\pm$ 0.335 χ^2/NDF : 7775.9/56

In: -7.714 $\pm$ 0.354 χ^2/NDF : 28396.4/48

Out: 3.962 $\pm$ 0.333 χ^2/NDF : 10002.0/55

All: -1.530 $\pm$ 0.243 χ^2/NDF : 38975.7/104

diff_bpm0i05X_rms vs Slug, Sign Corrected



Right In: 1776.681 ± 0.349 χ^2/NDF : 193626.1/25

Left Out: 2069.146 ± 0.345 χ^2/NDF : 799037.9/24

Right Out: 1771.058 ± 0.323 χ^2/NDF : 188462.5/30

Left In: 2082.497 ± 0.358 χ^2/NDF : 785304.0/22

Left: 2075.572 ± 0.248 χ^2/NDF : 1585062.9/47

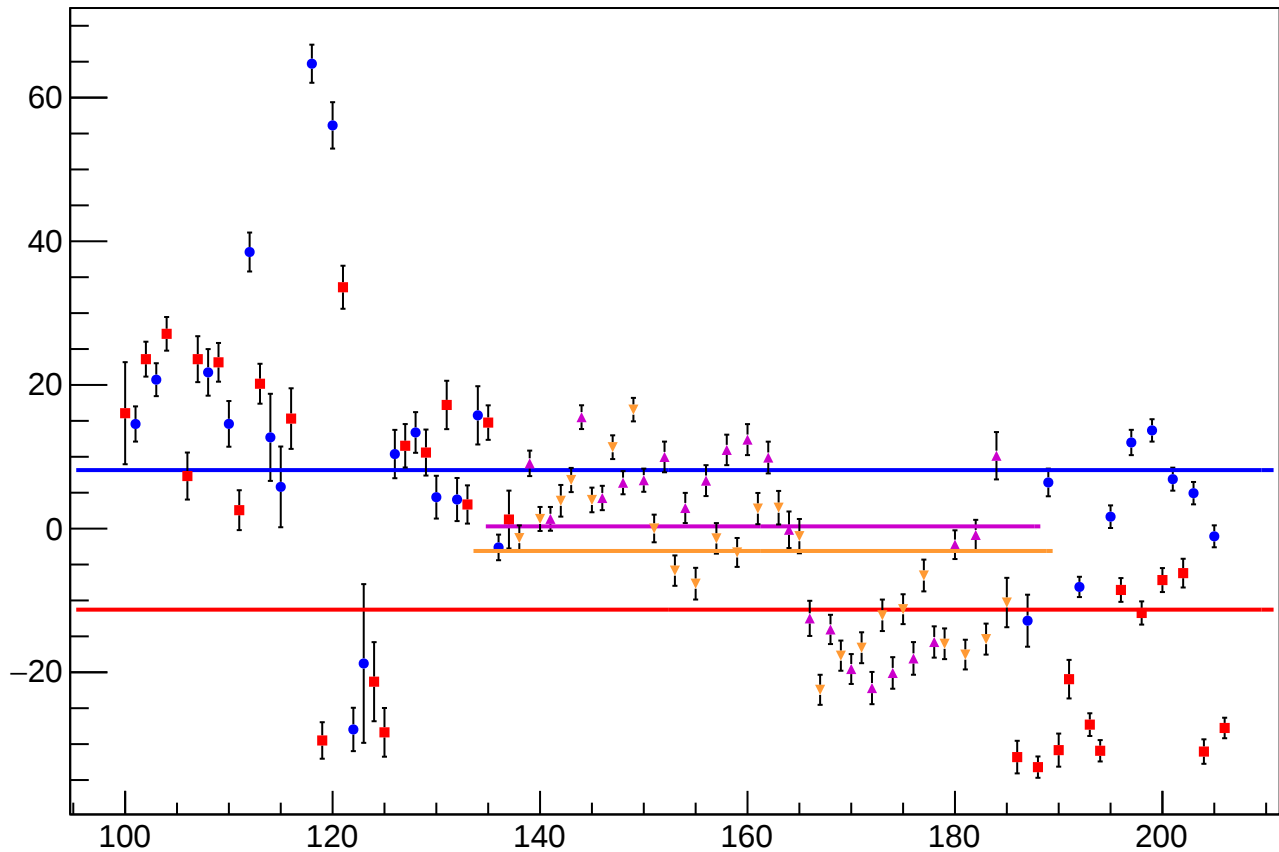
Right: 1773.647 ± 0.237 χ^2/NDF : 382228.4/56

In: 1925.803 ± 0.250 χ^2/NDF : 1352625.6/48

Out: 1910.162 ± 0.236 χ^2/NDF : 1385731.2/55

All: 1917.519 ± 0.171 χ^2/NDF : 2740429.1/10

diff_bpm0i05Y_mean vs Slug, Sign Corrected



Right In: 8.146 $\pm$ 0.441 χ^2/NDF : 1299.4/25

Left Out: -3.112 $\pm$ 0.404 χ^2/NDF :643.7/24

Right Out: -11.281 $\pm$ 0.405 χ^2/NDF : 2579.2/30

Left In: 0.312 $\pm$ 0.421 χ^2/NDF :736.5/22

Left: -1.470 $\pm$ 0.292 χ^2/NDF : 1414.7/47

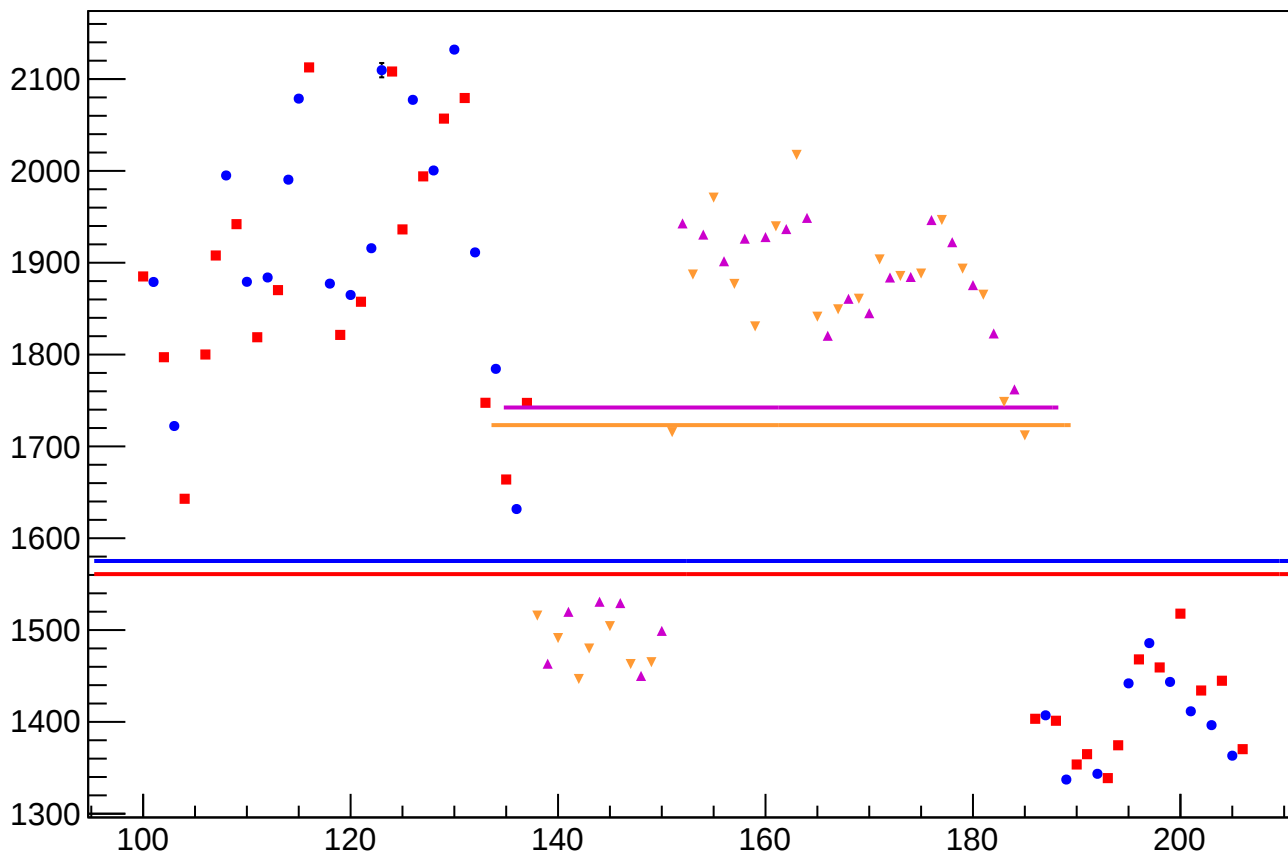
Right: -2.400 $\pm$ 0.298 χ^2/NDF : 4929.8/56

In: 4.044 $\pm$ 0.305 χ^2/NDF :2200.8/48

Out: -7.187 $\pm$ 0.286 χ^2/NDF :3426.7/55

All: -1.924 $\pm$ 0.209 χ^2/NDF : 6349.5/104

diff_bpm0i05Y_rms vs Slug, Sign Corrected



Right In: 1575.214 ± 0.312 $\chi^2/\text{NDF}: 614578.9/25$

Left Out: 1723.168 ± 0.286 $\chi^2/\text{NDF}: 477441.1/24$

Right Out: 1560.924 ± 0.286 $\chi^2/\text{NDF}: 614272.2/30$

Left In: 1742.354 ± 0.298 $\chi^2/\text{NDF}: 435841.5/22$

Left: 1732.370 ± 0.206 $\chi^2/\text{NDF}: 915443.3/47$

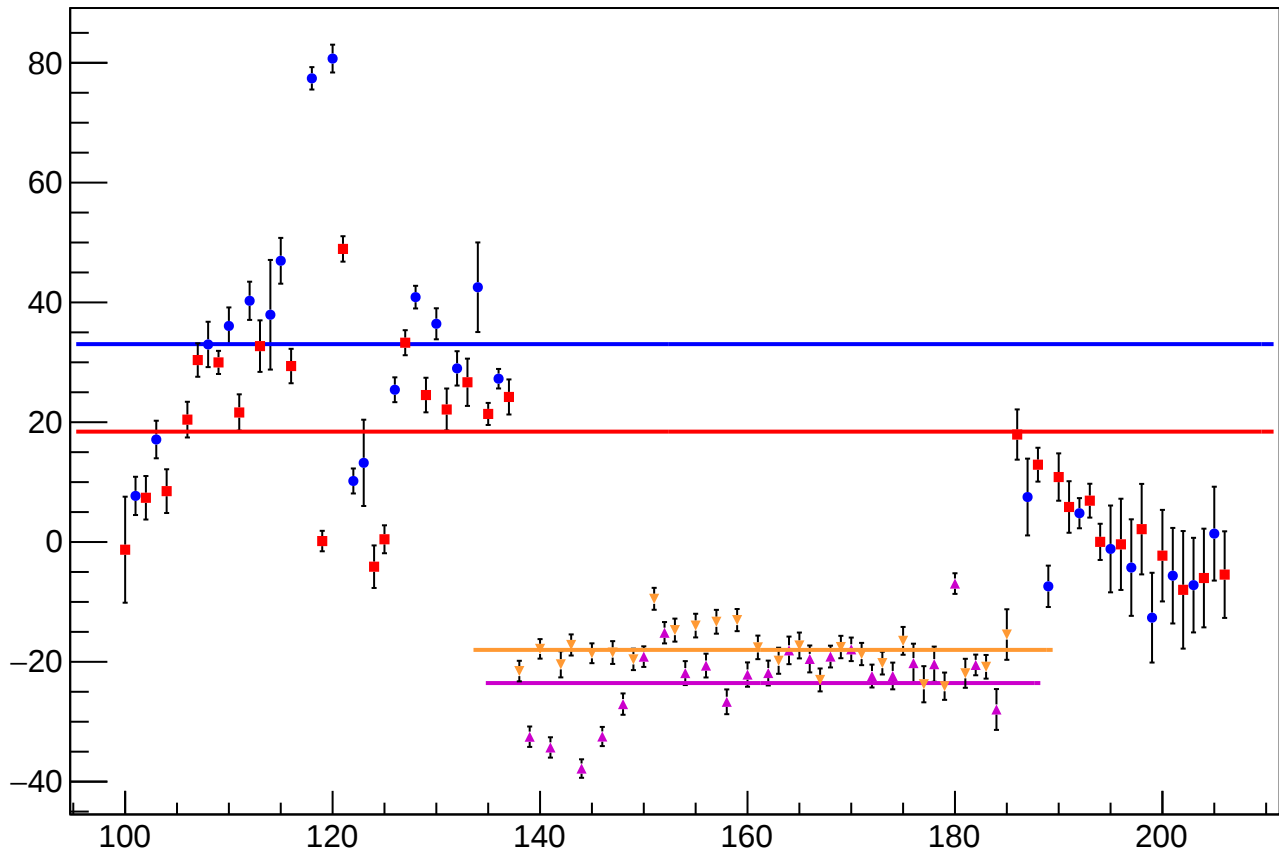
Right: 1567.456 ± 0.211 $\chi^2/\text{NDF}: 1229988.6/56$

In: 1662.734 ± 0.215 $\chi^2/\text{NDF}: 1200528.5/48$

Out: 1642.221 ± 0.202 $\chi^2/\text{NDF}: 1252452.9/55$

All: 1651.834 ± 0.147 $\chi^2/\text{NDF}: 2457798.1/100$

diff_bpm0i07X_mean vs Slug, Sign Corrected



Right In: 33.036 ± 0.596 χ^2/NDF : 1694.1/25

Left Out: -18.007 ± 0.397 χ^2/NDF : 73.8/24

Right Out: 18.429 ± 0.549 χ^2/NDF : 705.2/30

Left In: -23.544 ± 0.406 χ^2/NDF : 346.7/22

Left: -20.714 ± 0.284 χ^2/NDF : 515.7/47

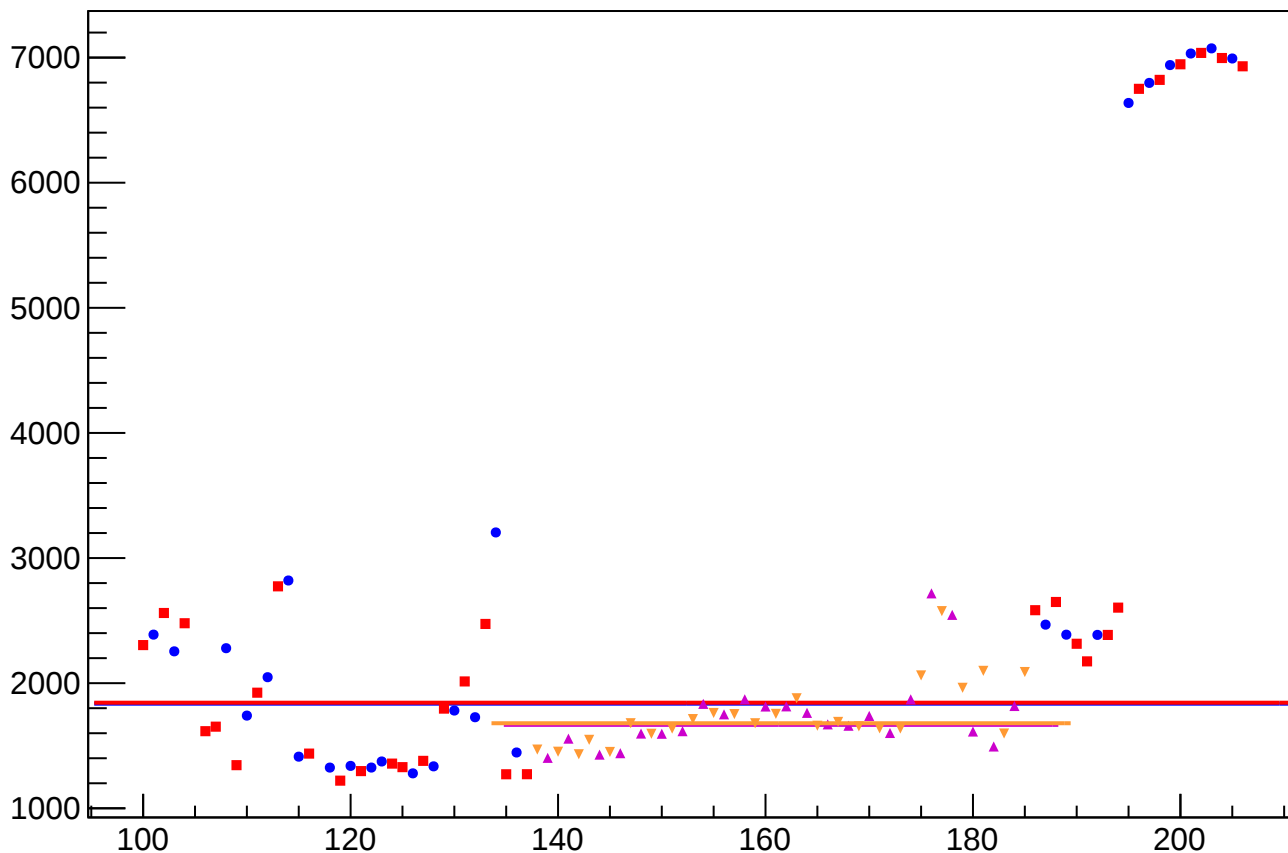
Right: 25.132 ± 0.404 χ^2/NDF : 2724.5/56

In: -5.623 ± 0.335 χ^2/NDF : 8202.7/48

Out: -5.498 ± 0.321 χ^2/NDF : 3675.4/55

All: -5.558 ± 0.232 χ^2/NDF : 11878.1/104

diff_bpm0i07X_rms vs Slug, Sign Corrected



Right In: 1836.121+/-0.421 χ^2/NDF : 6344843.4/25

Left Out: 1679.814+/-0.281 χ^2/NDF : 522795.6/24

Right Out: 1843.953+/-0.388 χ^2/NDF : 6779905.0/30

Left In: 1666.819+/-0.287 χ^2/NDF : 650990.8/22

Left: 1673.462+/-0.201 χ^2/NDF : 1174835.7/47

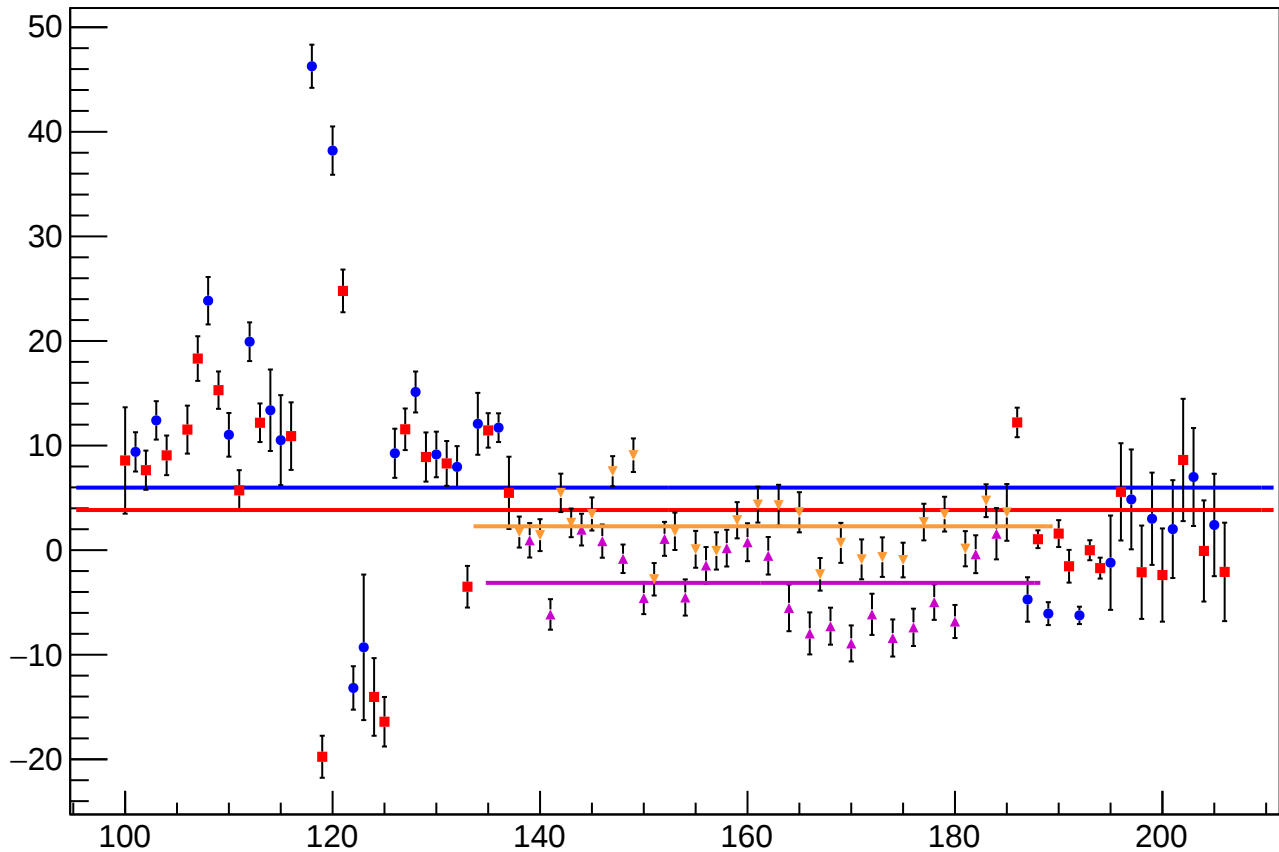
Right: 1840.359+/-0.285 χ^2/NDF : 13124935.4/56

In: 1720.443+/-0.237 χ^2/NDF : 7106175.2/48

Out: 1736.166+/-0.227 χ^2/NDF : 7420255.5/55

All: 1728.636+/-0.164 χ^2/NDF : 14528722.1/102

diff_bpm0i07Y_mean vs Slug, Sign Corrected



Right In: 5.978 $\pm$ 0.395 χ^2/NDF : 1226.4/25

Left Out: 2.280 $\pm$ 0.338 χ^2/NDF : 75.6/24

Right Out: 3.836 $\pm$ 0.327 χ^2/NDF : 650.4/30

Left In: -3.129 $\pm$ 0.358 χ^2/NDF : 103.4/22

Left: -0.274 $\pm$ 0.246 χ^2/NDF : 299.7/47

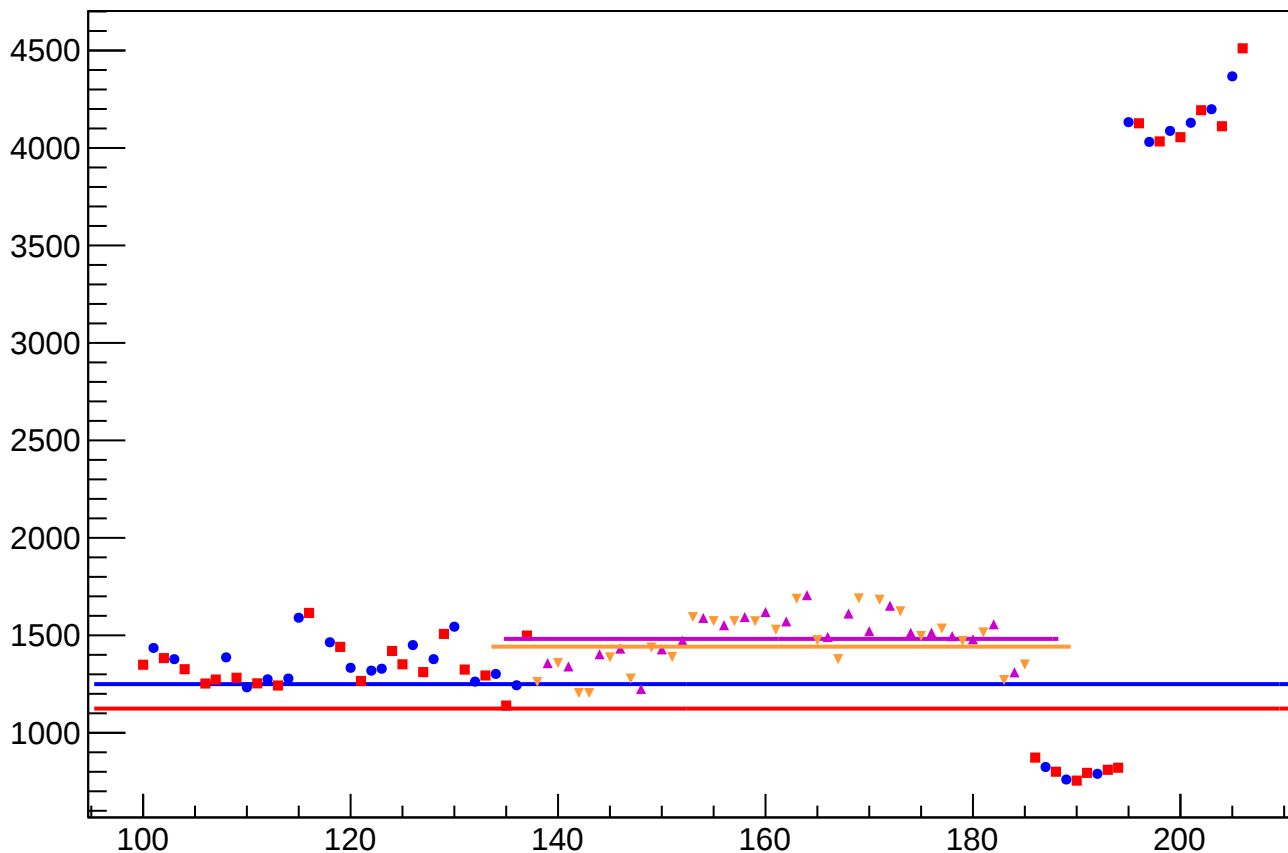
Right: 4.709 $\pm$ 0.252 χ^2/NDF : 1894.2/56

In: 0.978 $\pm$ 0.265 χ^2/NDF : 1622.2/48

Out: 3.083 $\pm$ 0.235 χ^2/NDF : 736.9/55

All: 2.156 $\pm$ 0.176 χ^2/NDF : 2394.3/104

diff_bpm0i07Y_rms vs Slug, Sign Corrected



Right In: 1249.734 $\pm$ 0.279 χ^2/NDF : 5914055.7/25

Left Out: 1441.951 $\pm$ 0.239 χ^2/NDF : 370617.4/24

Right Out: 1124.219 $\pm$ 0.231 χ^2/NDF : 6282895.8/30

Left In: 1481.695 $\pm$ 0.253 χ^2/NDF : 208470.6/22

Left: 1460.716 $\pm$ 0.174 χ^2/NDF : 592125.7/47

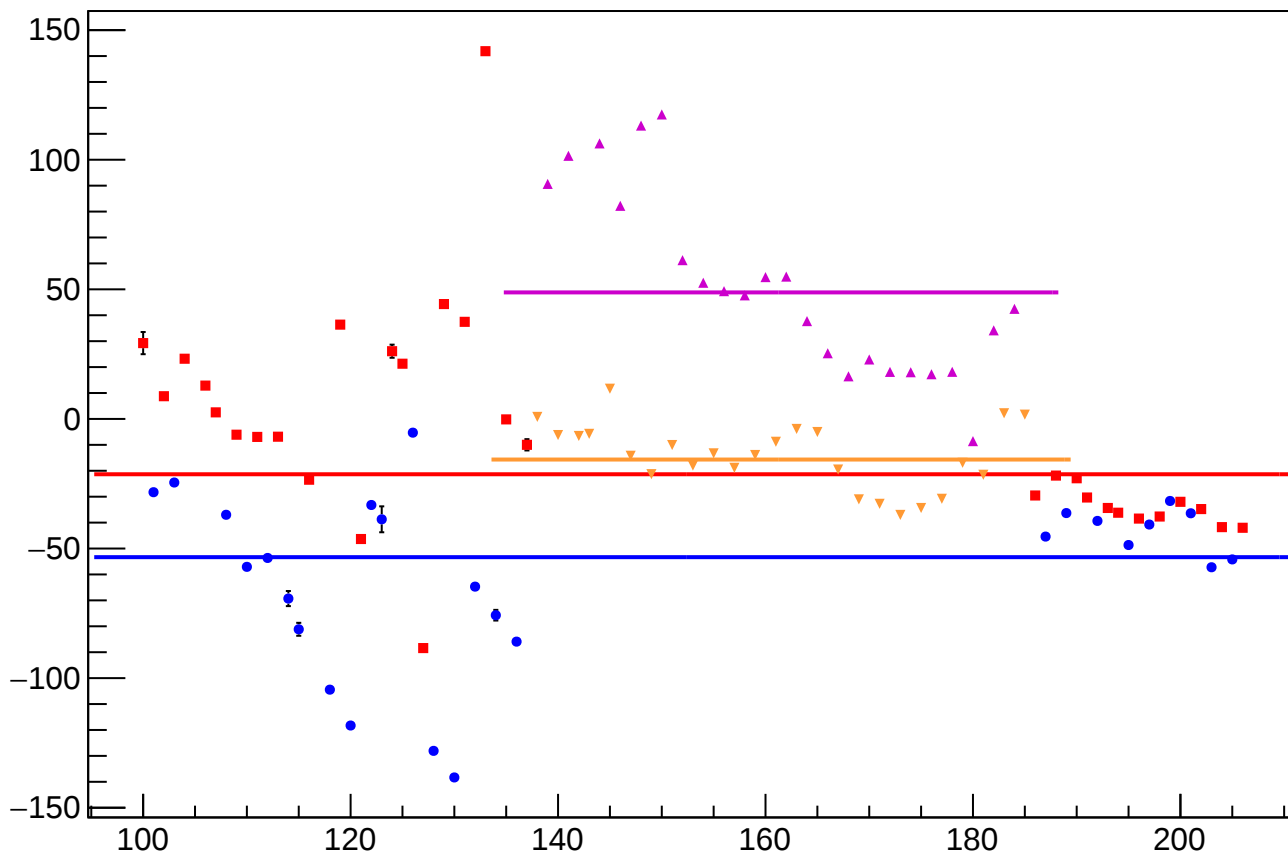
Right: 1175.375 $\pm$ 0.178 χ^2/NDF : 12316821.4/56

In: 1377.090 $\pm$ 0.187 χ^2/NDF : 6501939.2/48

Out: 1277.866 $\pm$ 0.166 χ^2/NDF : 7564892.2/55

All: 1321.591 $\pm$ 0.124 χ^2/NDF : 14223668.2/100

diff_bpm1i02X_mean vs Slug, Sign Corrected



Right In: -53.330 ± 0.209 $\chi^2/\text{NDF}: 17015.0/25$

Left Out: -15.666 ± 0.212 $\chi^2/\text{NDF}: 3518.1/24$

Right Out: -21.345 ± 0.190 $\chi^2/\text{NDF}: 30467.9/30$

Left In: 48.812 ± 0.220 $\chi^2/\text{NDF}: 25260.8/22$

Left: 15.324 ± 0.152 $\chi^2/\text{NDF}: 73443.2/47$

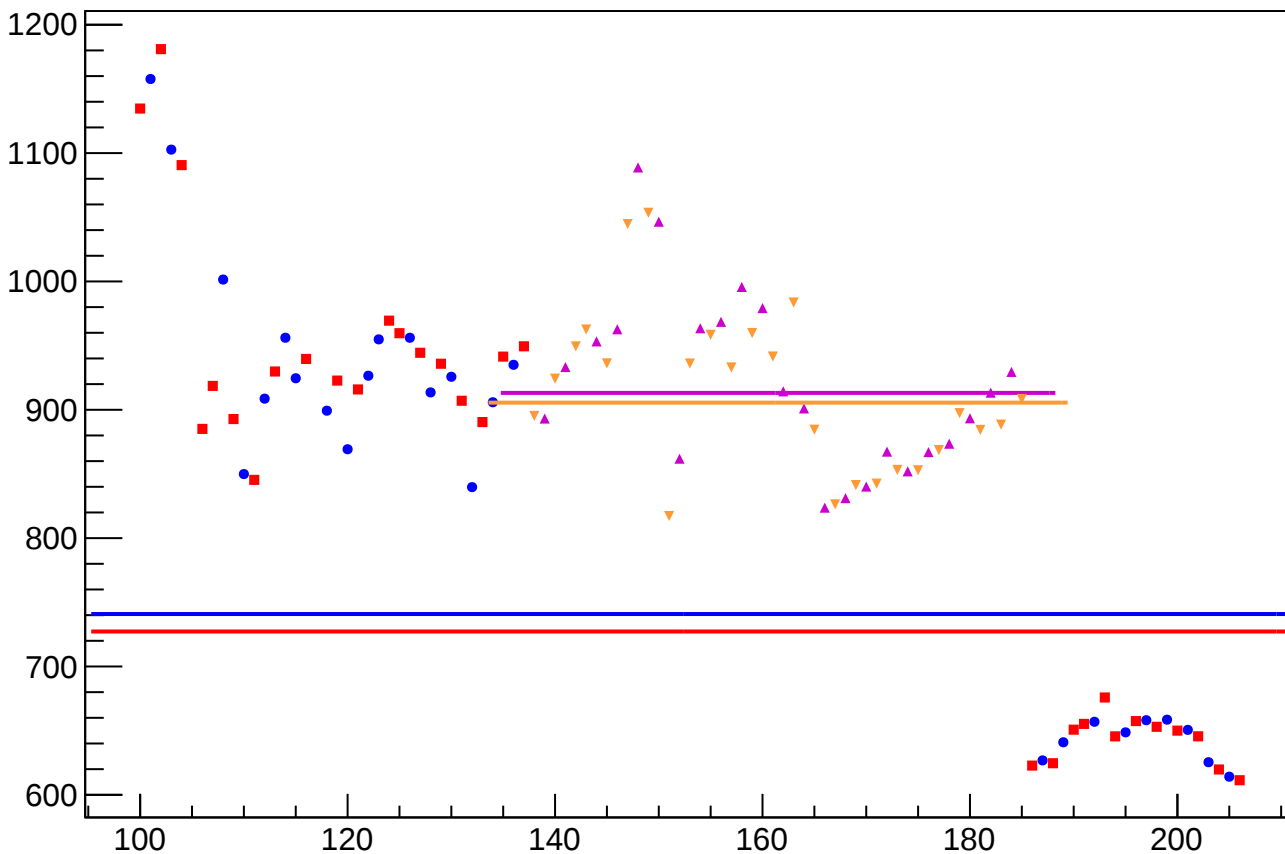
Right: -35.835 ± 0.141 $\chi^2/\text{NDF}: 60287.2/56$

In: -4.835 ± 0.152 $\chi^2/\text{NDF}: 155621.6/48$

Out: -18.805 ± 0.141 $\chi^2/\text{NDF}: 34384.4/55$

All: -12.299 ± 0.103 $\chi^2/\text{NDF}: 194549.0/104$

diff_bpm1i02X_rms vs Slug, Sign Corrected



Right In: 740.872 ± 0.148 χ^2/NDF : 984363.4/25

Left Out: 905.578 ± 0.150 χ^2/NDF : 162073.5/24

Right Out: 727.261 ± 0.135 χ^2/NDF : 1121796.0/30

Left In: 913.165 ± 0.155 χ^2/NDF : 174438.8/22

Left: 909.225 ± 0.108 χ^2/NDF : 337749.0/47

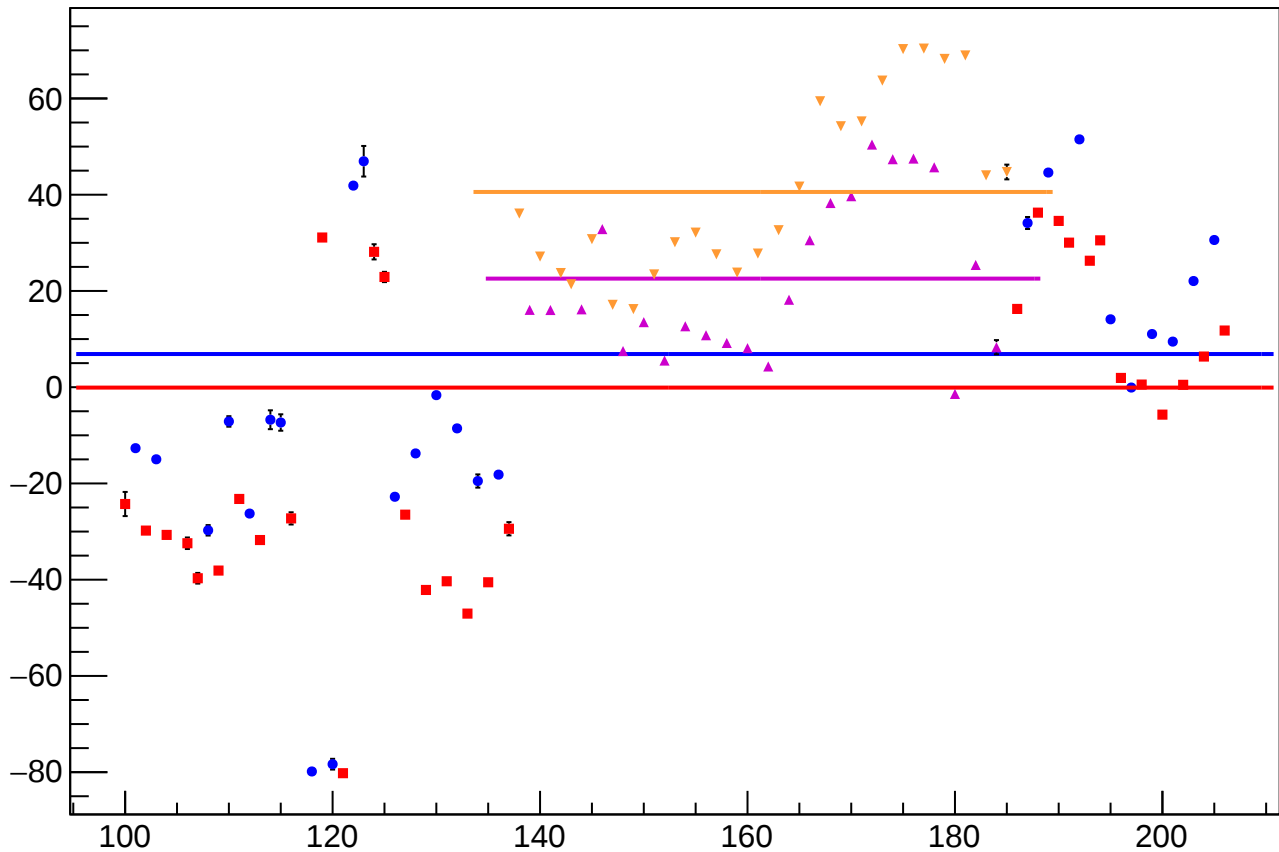
Right: 733.427 ± 0.099 χ^2/NDF : 2110796.6/56

In: 822.673 ± 0.107 χ^2/NDF : 1803806.6/48

Out: 807.010 ± 0.100 χ^2/NDF : 2069620.5/55

All: 814.304 ± 0.073 χ^2/NDF : 3884848.4/104

diff_bpm1i02Y_mean vs Slug, Sign Corrected



Right In: 6.892 ± 0.152 χ^2/NDF : 38607.8/25

Left Out: 40.573 ± 0.168 χ^2/NDF : 12079.0/24

Right Out: -0.083 ± 0.139 χ^2/NDF : 41749.8/30

Left In: 22.565 ± 0.175 χ^2/NDF : 8167.7/22

Left: 31.959 ± 0.121 χ^2/NDF : 25752.7/47

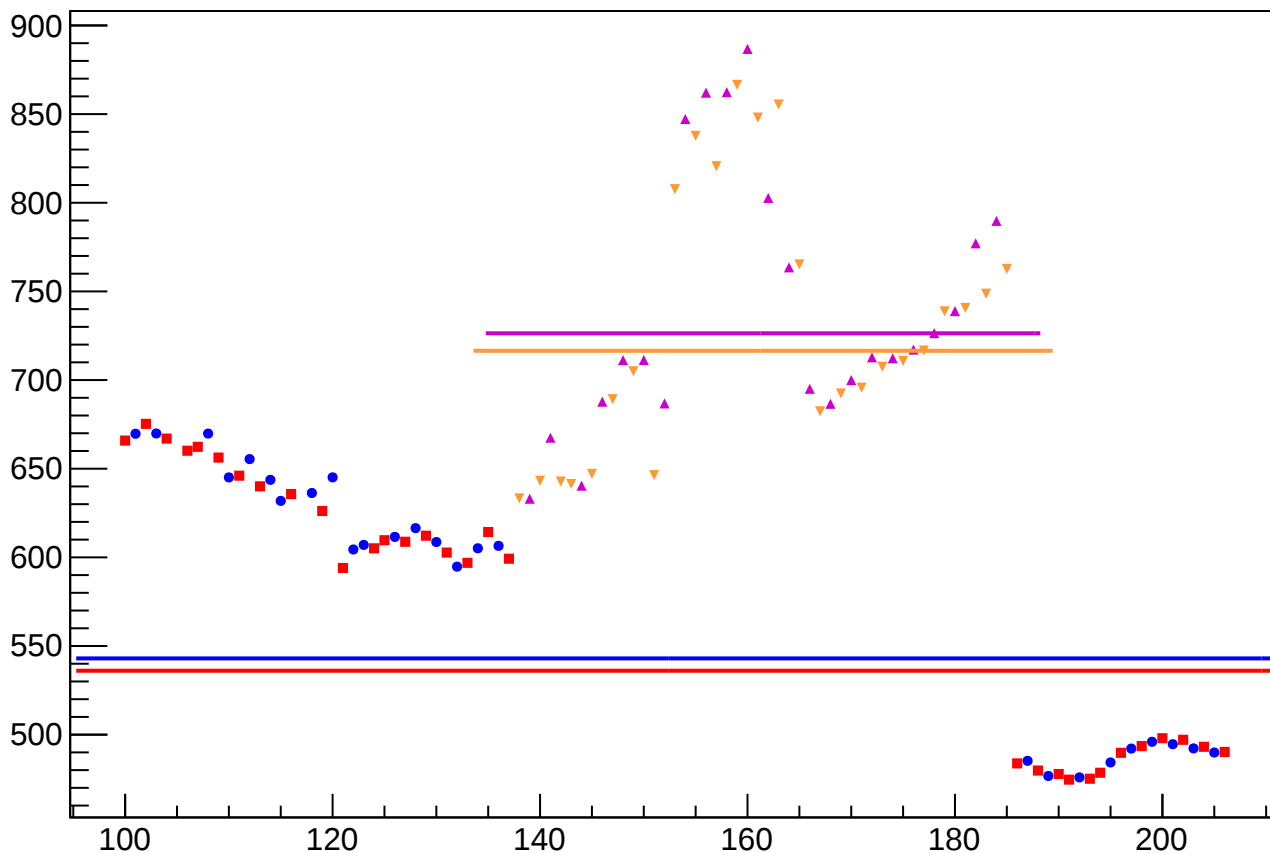
Right: 3.097 ± 0.102 χ^2/NDF : 81509.5/56

In: 13.597 ± 0.115 χ^2/NDF : 51350.7/48

Out: 16.423 ± 0.107 χ^2/NDF : 88682.5/55

All: 15.108 ± 0.078 χ^2/NDF : 140358.2/104

diff_bpm1i02Y_rms vs Slug, Sign Corrected



Right In: 543.009 $\pm$ 0.107 χ^2 /NDF: 443600.4/25

Left Out: 716.515 $\pm$ 0.119 χ^2 /NDF:342740.2/24

Right Out: 536.066 $\pm$ 0.098 χ^2 /NDF: 508826.1/30

Left In: 726.390 $\pm$ 0.124 χ^2 /NDF:289788.8/22

Left: 721.238 $\pm$ 0.086 χ^2 /NDF: 635840.6/47

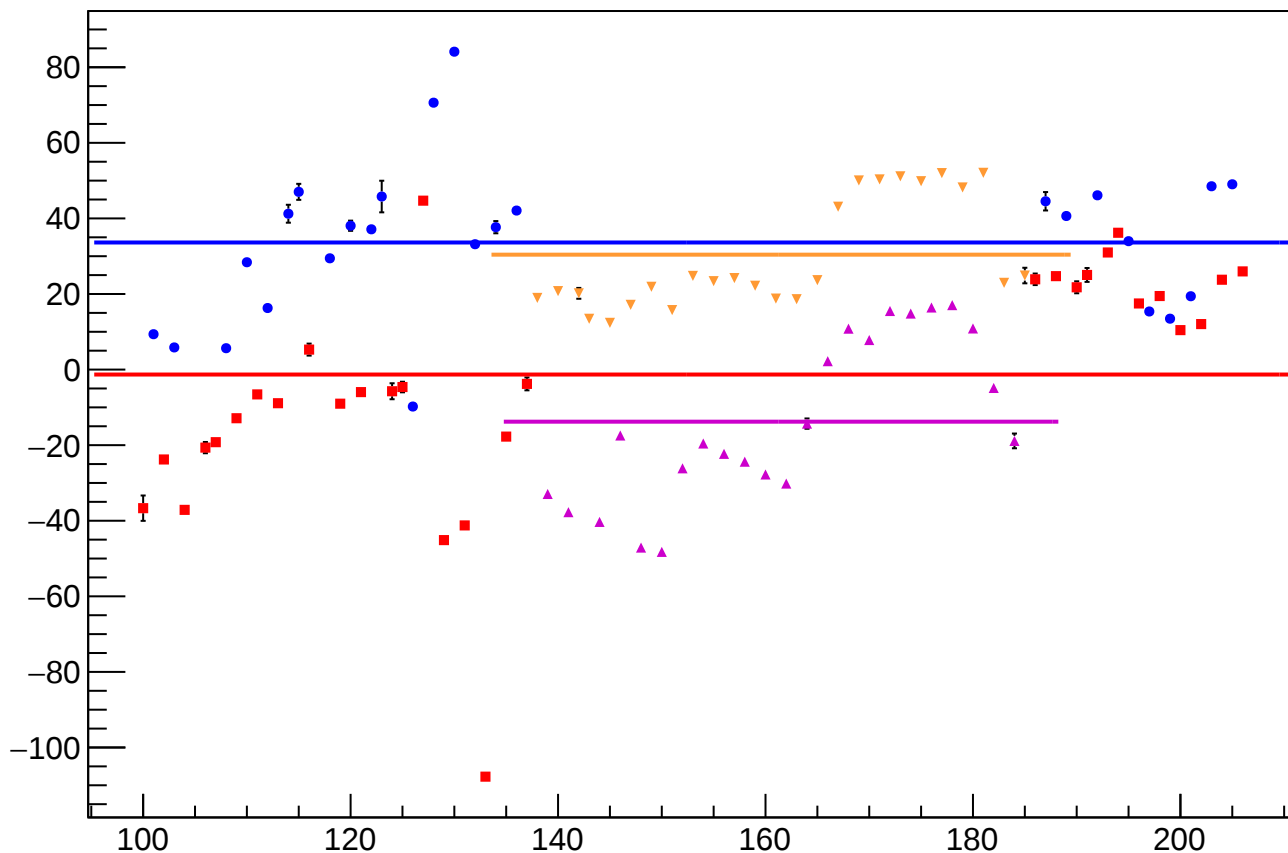
Right: 539.232 $\pm$ 0.072 χ^2 /NDF: 954709.5/56

In: 621.460 $\pm$ 0.081 χ^2 /NDF:1985984.1/48

Out: 609.325 $\pm$ 0.076 χ^2 /NDF:2224820.8/55

All: 614.971 $\pm$ 0.055 χ^2 /NDF: 4222785.8/104

diff_bpm1i04X_mean vs Slug, Sign Corrected



Right In: 33.631 ± 0.234 χ^2/NDF : 7895.0/25

Left Out: 30.408 ± 0.237 χ^2/NDF : 3808.0/24

Right Out: -1.310 ± 0.219 χ^2/NDF : 21343.4/30

Left In: -13.787 ± 0.246 χ^2/NDF : 7979.7/22

Left: 9.082 ± 0.171 χ^2/NDF : 28511.9/47

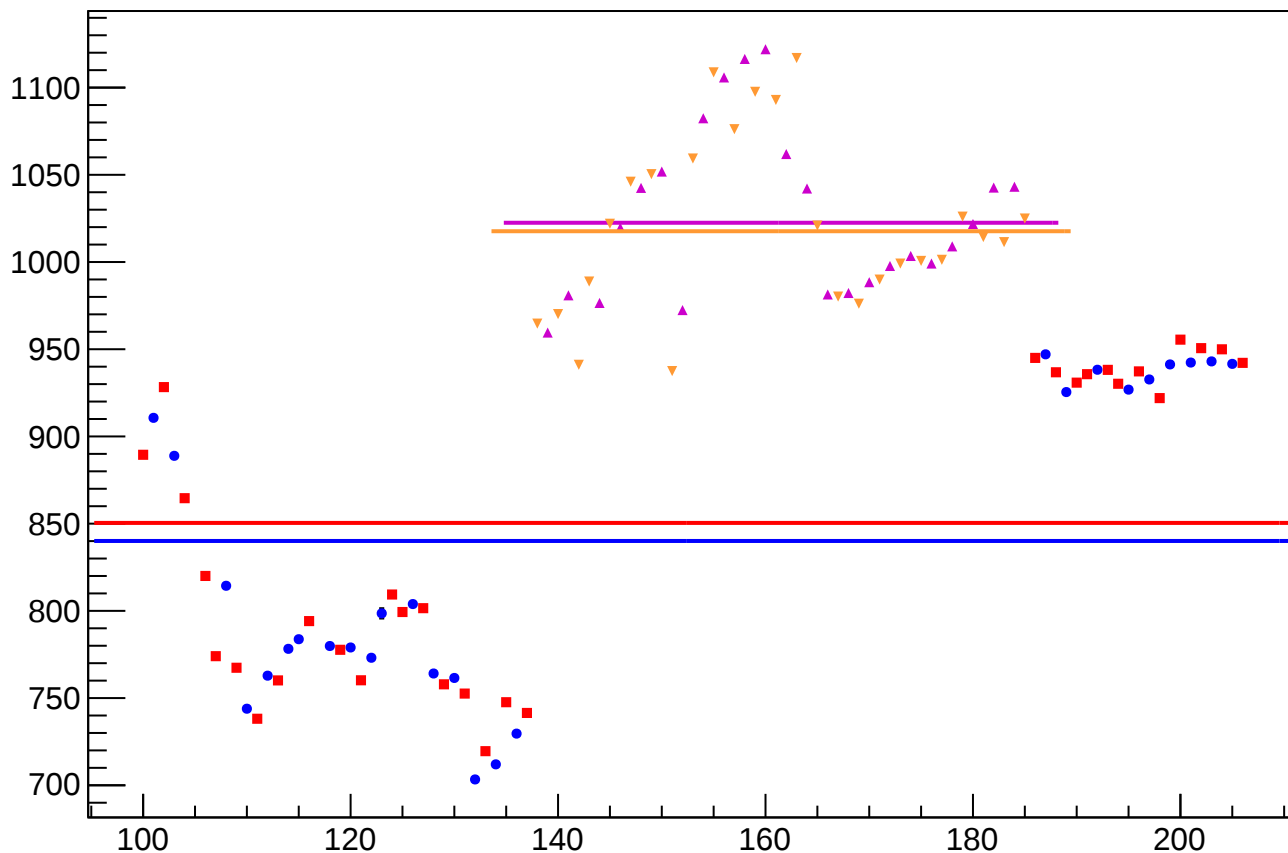
Right: 15.052 ± 0.160 χ^2/NDF : 41110.7/56

In: 11.107 ± 0.169 χ^2/NDF : 35407.4/48

Out: 13.304 ± 0.161 χ^2/NDF : 34777.7/55

All: 12.261 ± 0.117 χ^2/NDF : 70273.4/104

diff_bpm1i04X_rms vs Slug, Sign Corrected



Right In: 840.072 $\pm$ 0.165 χ^2 /NDF: 292593.7/25

Left Out: 1017.653 $\pm$ 0.168 χ^2 /NDF: 83612.5/24

Right Out: 850.423 $\pm$ 0.155 χ^2 /NDF: 315738.7/30

Left In: 1022.511 $\pm$ 0.174 χ^2 /NDF: 69635.5/22

Left: 1019.997 $\pm$ 0.121 χ^2 /NDF: 153652.2/47

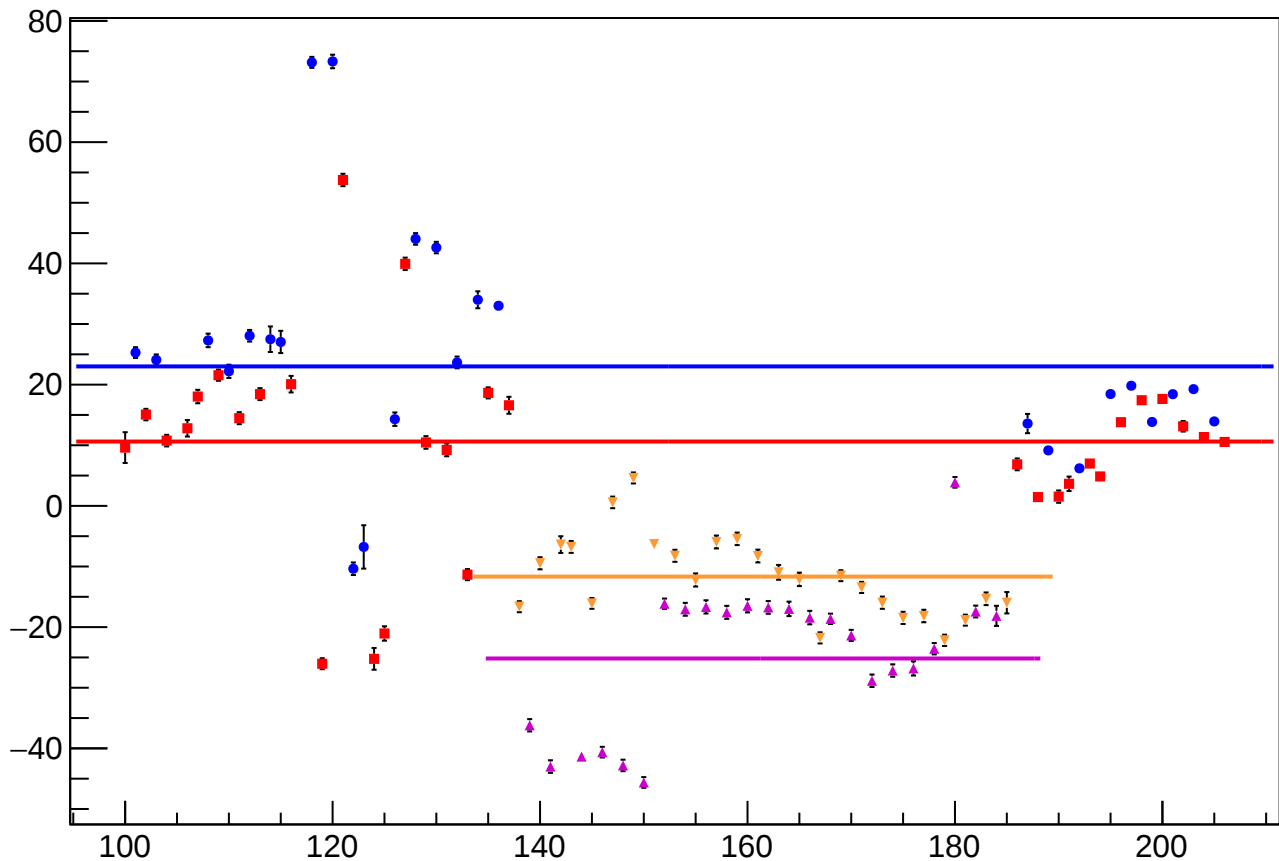
Right: 845.576 $\pm$ 0.113 χ^2 /NDF: 610416.2/56

In: 926.733 $\pm$ 0.120 χ^2 /NDF: 940525.0/48

Out: 927.476 $\pm$ 0.114 χ^2 /NDF: 934507.4/55

All: 927.123 $\pm$ 0.083 χ^2 /NDF: 1875052.6/104

diff_bpm1i04Y_mean vs Slug, Sign Corrected



Right In: 23.007 ± 0.171 $\chi^2/\text{NDF}: 9098.8/25$

Left Out: -11.664 ± 0.200 $\chi^2/\text{NDF}: 1147.4/24$

Right Out: 10.614 ± 0.162 $\chi^2/\text{NDF}: 7015.9/30$

Left In: -25.174 ± 0.207 $\chi^2/\text{NDF}: 3747.1/22$

Left: -18.184 ± 0.144 $\chi^2/\text{NDF}: 7090.4/47$

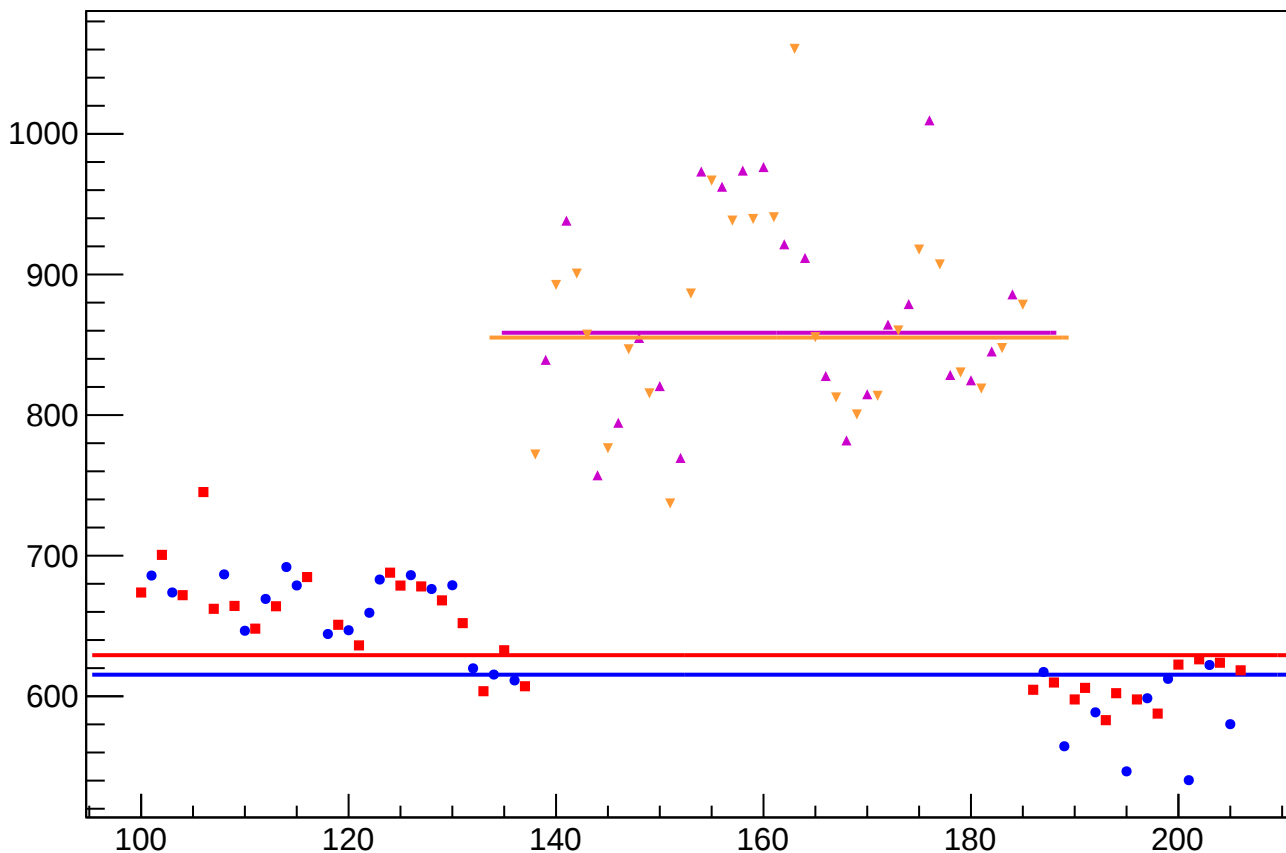
Right: 16.462 ± 0.118 $\chi^2/\text{NDF}: 18879.9/56$

In: 3.469 ± 0.132 $\chi^2/\text{NDF}: 44936.6/48$

Out: 1.810 ± 0.126 $\chi^2/\text{NDF}: 15646.4/55$

All: 2.600 ± 0.091 $\chi^2/\text{NDF}: 60665.6/104$

diff_bpm1i04Y_rms vs Slug, Sign Corrected



Right In: 615.342 ± 0.121 $\chi^2/\text{NDF}: 149132.1/25$

Left Out: 855.131 ± 0.142 $\chi^2/\text{NDF}: 233746.7/24$

Right Out: 629.225 ± 0.114 $\chi^2/\text{NDF}: 90415.4/30$

Left In: 858.563 ± 0.147 $\chi^2/\text{NDF}: 239019.8/22$

Left: 856.788 ± 0.102 $\chi^2/\text{NDF}: 473049.9/47$

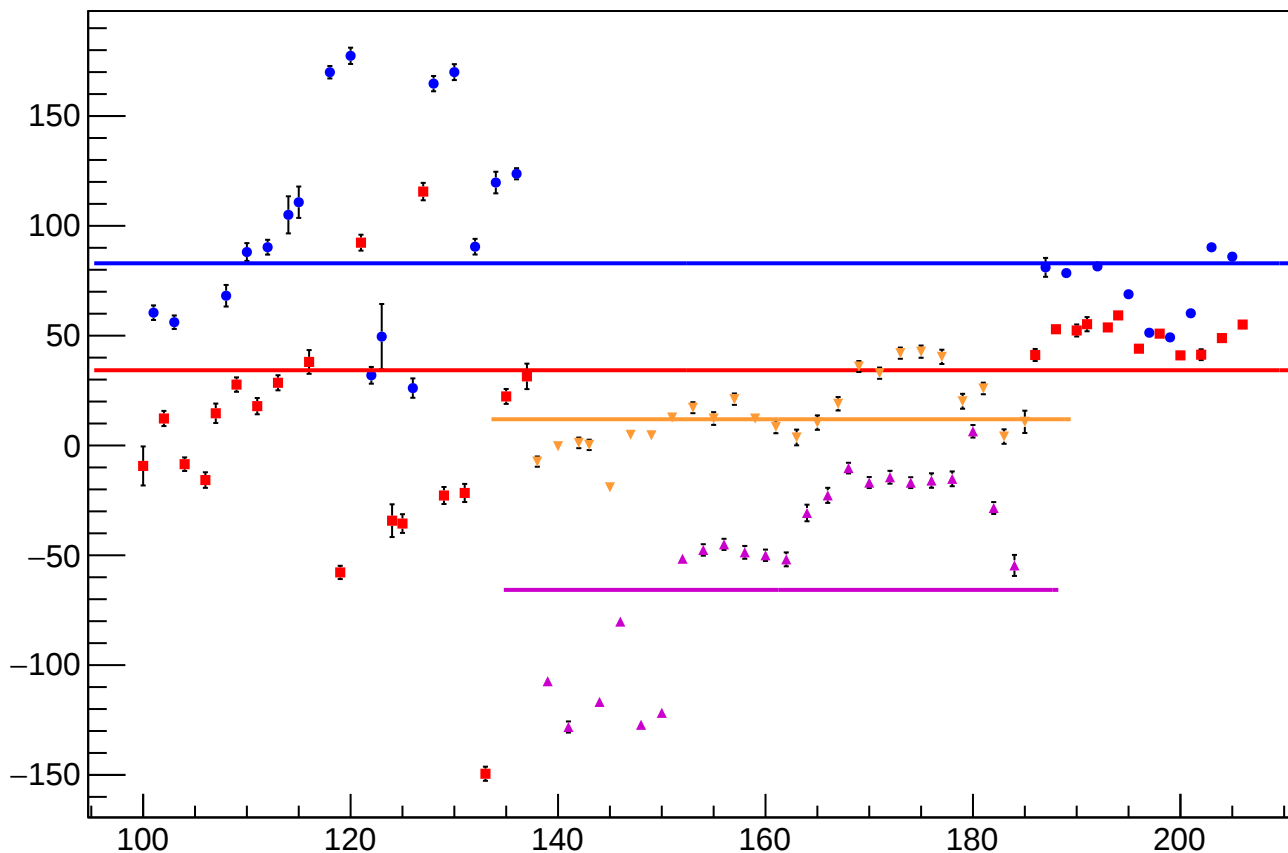
Right: 622.674 ± 0.083 $\chi^2/\text{NDF}: 246487.2/56$

In: 713.970 ± 0.093 $\chi^2/\text{NDF}: 2023724.1/48$

Out: 718.499 ± 0.089 $\chi^2/\text{NDF}: 1863108.0/55$

All: 716.342 ± 0.064 $\chi^2/\text{NDF}: 3888064.1/104$

diff_bpm1i06X_mean vs Slug, Sign Corrected



Right In: 82.949+/-0.528 χ^2/NDF : 4389.1/25

Left Out: 11.938+/-0.505 χ^2/NDF : 976.6/24

Right Out: 34.254+/-0.493 χ^2/NDF : 6965.1/30

Left In: -65.752+/-0.518 χ^2/NDF : 7335.8/22

Left: -25.968+/-0.362 χ^2/NDF : 19845.5/47

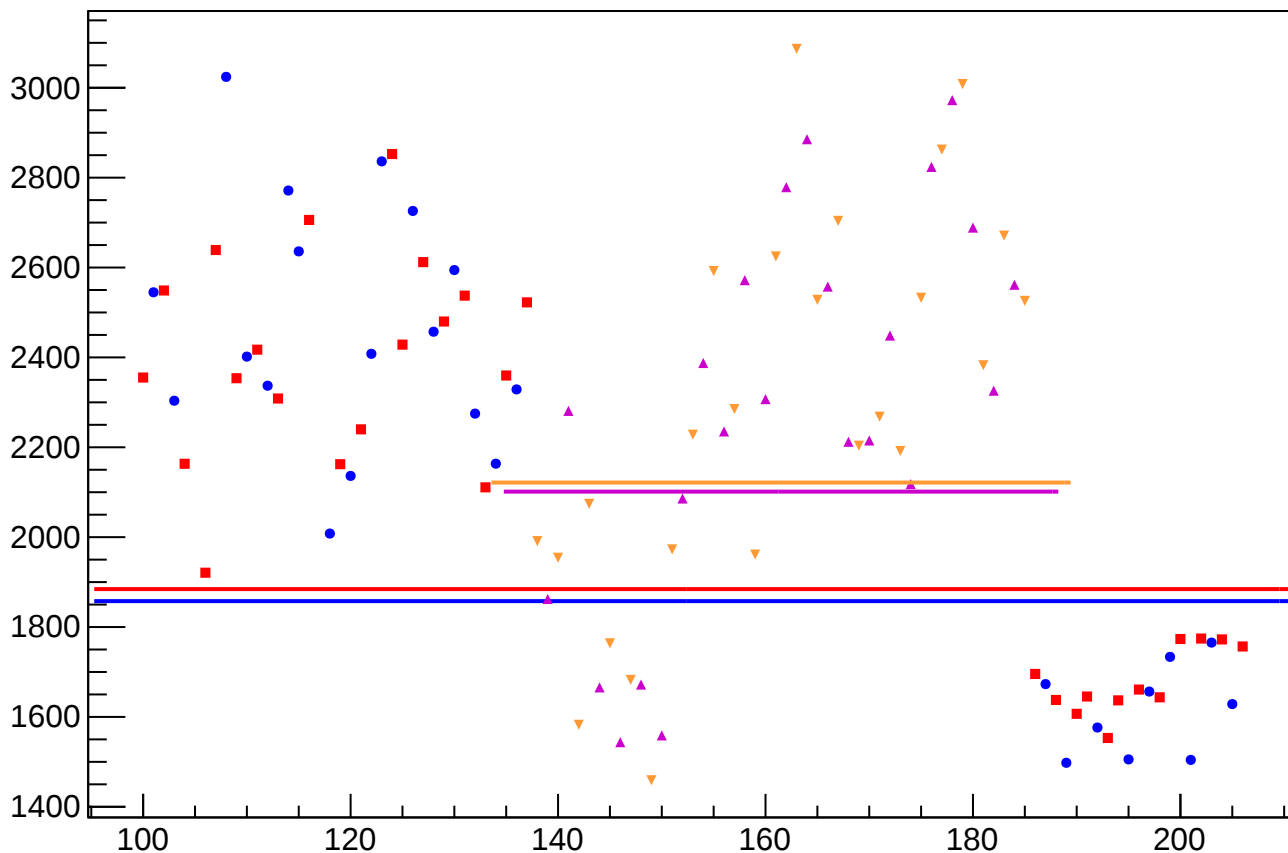
Right: 56.914+/-0.360 χ^2/NDF : 15901.8/56

In: 7.133+/-0.370 χ^2/NDF : 52166.0/48

Out: 23.381+/-0.353 χ^2/NDF : 8941.9/55

All: 15.637+/-0.255 χ^2/NDF : 62119.3/104

diff_bpm1i06X_rms vs Slug, Sign Corrected



Right In: 1857.642 $\pm$ 0.373 χ^2 /NDF: 1105561.1/25

Left Out: 2121.567 $\pm$ 0.357 χ^2 /NDF:1387847.6/24

Right Out: 1884.444 $\pm$ 0.348 χ^2 /NDF: 927778.0/30

Left In: 2101.325 $\pm$ 0.366 χ^2 /NDF:1360518.3/22

Left: 2111.691 $\pm$ 0.256 χ^2 /NDF: 2749931.8/47

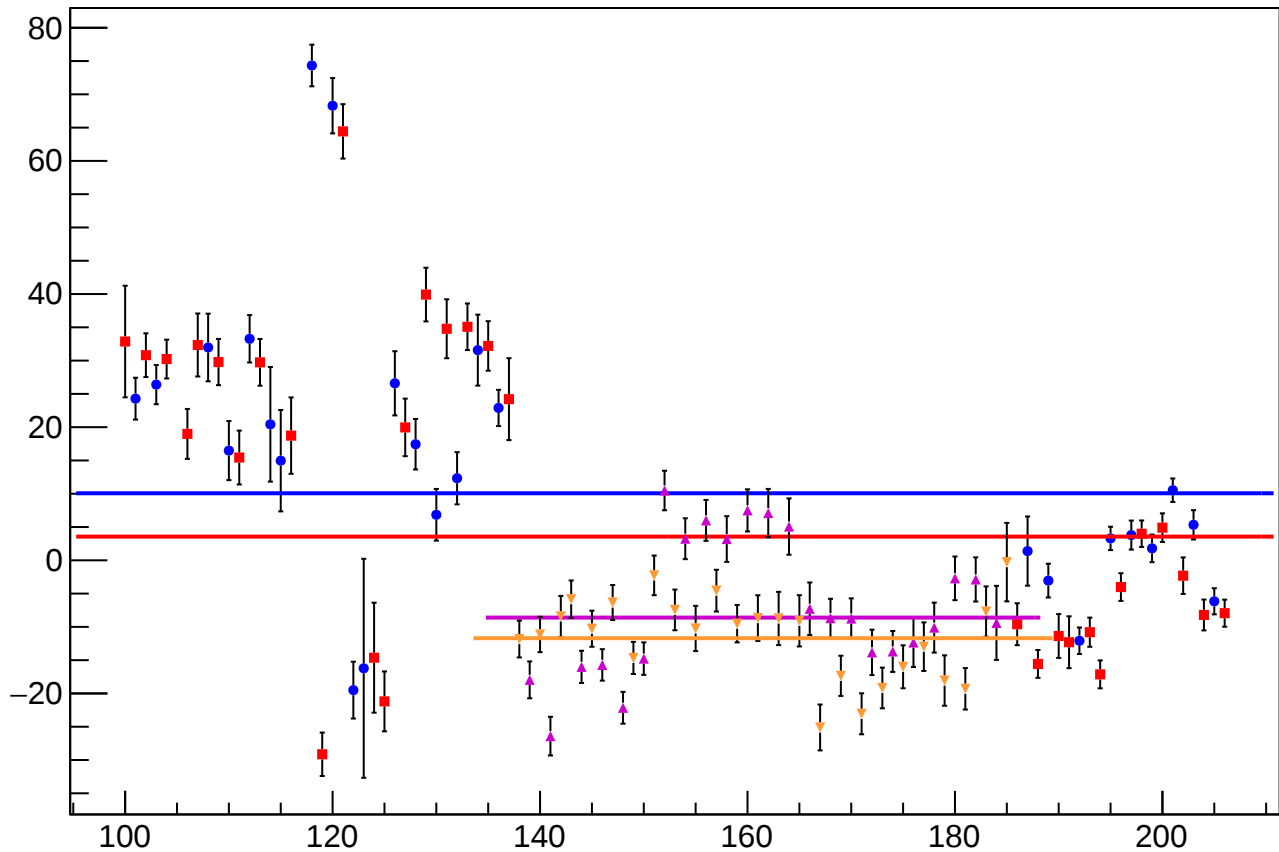
Right: 1871.972 $\pm$ 0.255 χ^2 /NDF: 2036094.5/56

In: 1981.886 $\pm$ 0.261 χ^2 /NDF:2683288.7/48

Out: 1999.977 $\pm$ 0.249 χ^2 /NDF:2541450.0/55

All: 1991.355 $\pm$ 0.180 χ^2 /NDF: 5227246.3/100

diff_bpm1i06Y_mean vs Slug, Sign Corrected



Left: -10.193 $\pm$ 0.448 χ^2/NDF : 361.1/47

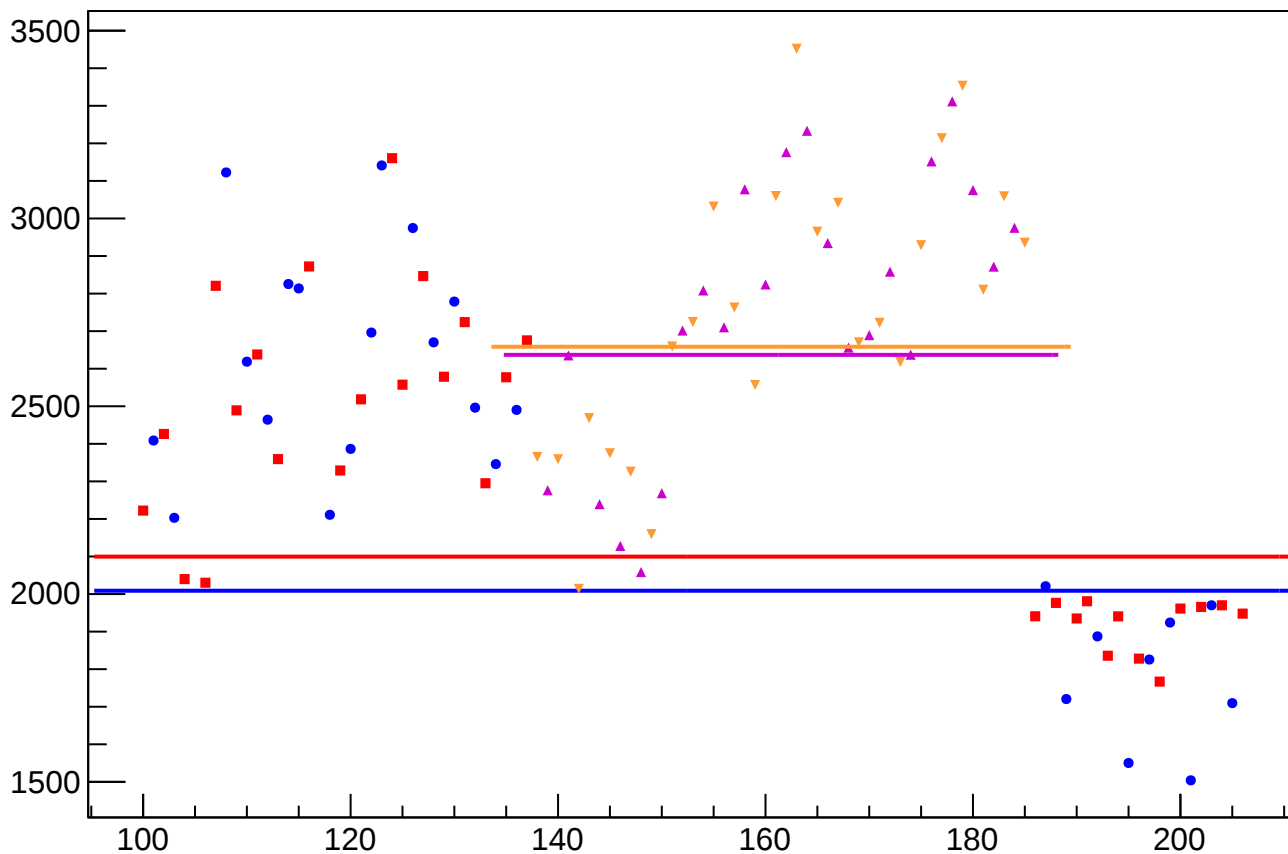
Right: 6.665 $\pm$ 0.396 χ^2/NDF : 2529.1/56

In: 1.790 $\pm$ 0.427 χ^2/NDF : 1841.3/48

Out: -3.052 $\pm$ 0.412 χ^2/NDF : 1778.1/55

All: -0.721 $\pm$ 0.297 χ^2/NDF : 3686.0/104

diff_bpm1i06Y_rms vs Slug, Sign Corrected



Right In: 2008.880 $\pm$ 0.405 χ^2/NDF : 1053594.9/25

Left Out: 2658.486 $\pm$ 0.442 χ^2/NDF : 618133.8/24

Right Out: 2099.695 $\pm$ 0.387 χ^2/NDF : 624873.8/30

Left In: 2636.885 $\pm$ 0.454 χ^2/NDF : 652894.5/22

Left: 2647.967 $\pm$ 0.317 χ^2/NDF : 1272190.1/47

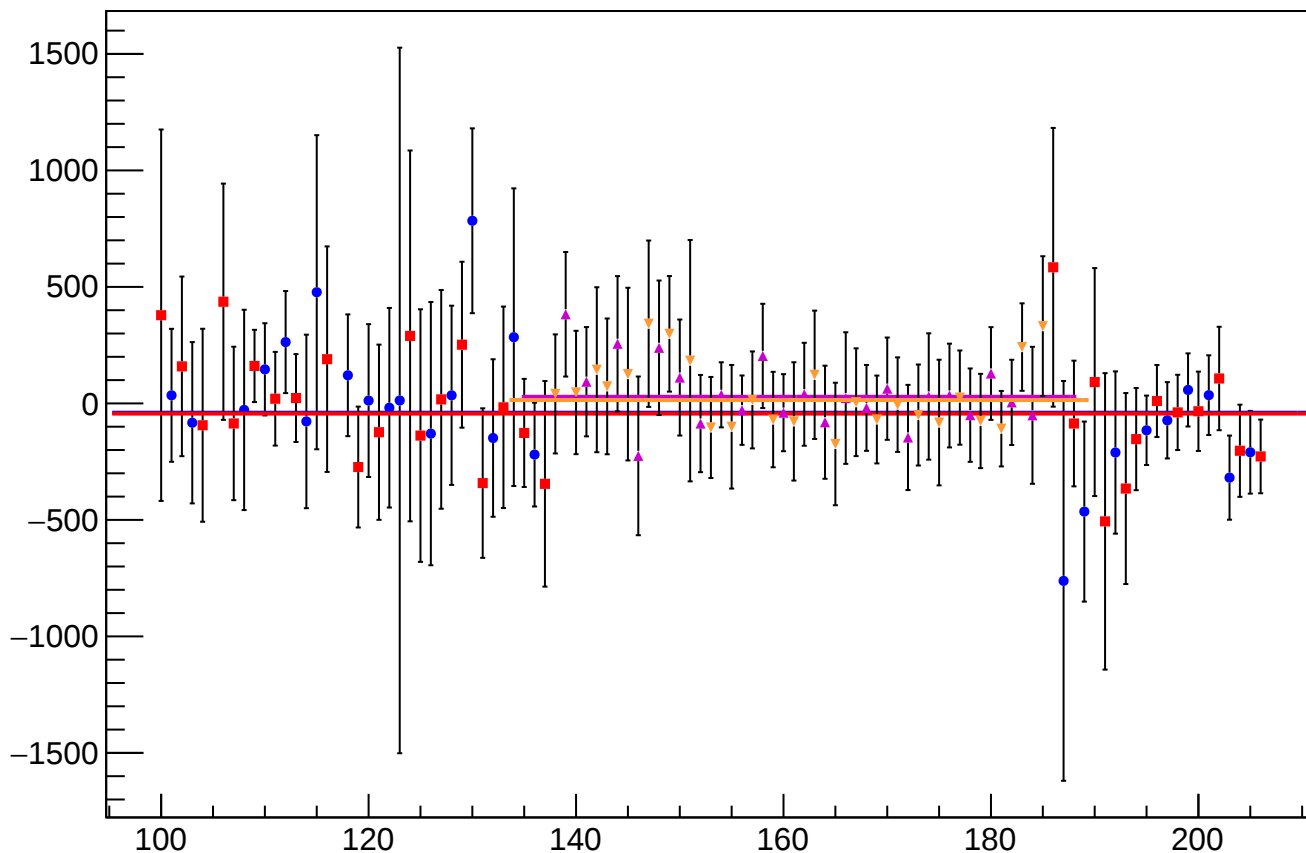
Right: 2056.392 $\pm$ 0.280 χ^2/NDF : 1704763.4/56

In: 2287.301 $\pm$ 0.302 χ^2/NDF : 2772038.0/48

Out: 2341.830 $\pm$ 0.291 χ^2/NDF : 2147677.9/55

All: 2315.586 $\pm$ 0.210 χ^2/NDF : 4936601.1/100

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -39.939 ± 50.312 χ^2/NDF : 15.6/25

Left Out: 14.520 ± 47.528 χ^2/NDF : 7.8/24

Right Out: -43.726 ± 46.900 χ^2/NDF : 12.1/30

Left In: 28.310 ± 44.638 χ^2/NDF : 6.3/22

Left: 21.847 ± 32.538 χ^2/NDF : 14.1/47

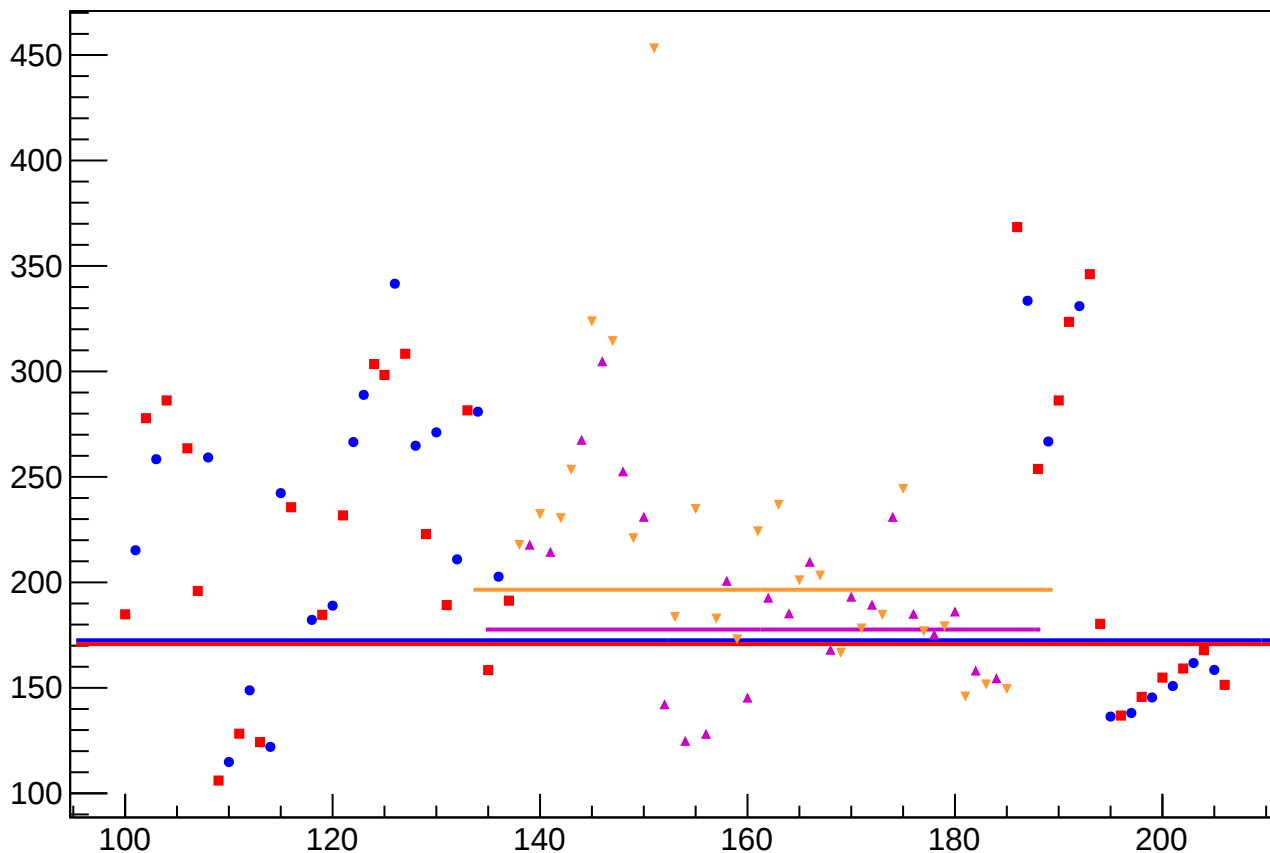
Right: -41.966 ± 34.306 χ^2/NDF : 27.7/56

In: -1.751 ± 33.391 χ^2/NDF : 22.9/48

Out: -14.991 ± 33.383 χ^2/NDF : 20.6/55

All: -8.373 ± 23.608 χ^2/NDF : 43.6/104

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 172.554 $\pm$ 0.036 χ^2 /NDF: 2075149.4/25

Left Out: 196.514 $\pm$ 0.034 χ^2 /NDF:1789504.4/24

Right Out: 170.726 $\pm$ 0.033 χ^2 /NDF: 2773704.9/30

Left In: 177.643 $\pm$ 0.032 χ^2 /NDF:1630664.5/22

Left: 186.488 $\pm$ 0.023 χ^2 /NDF: 3587689.7/47

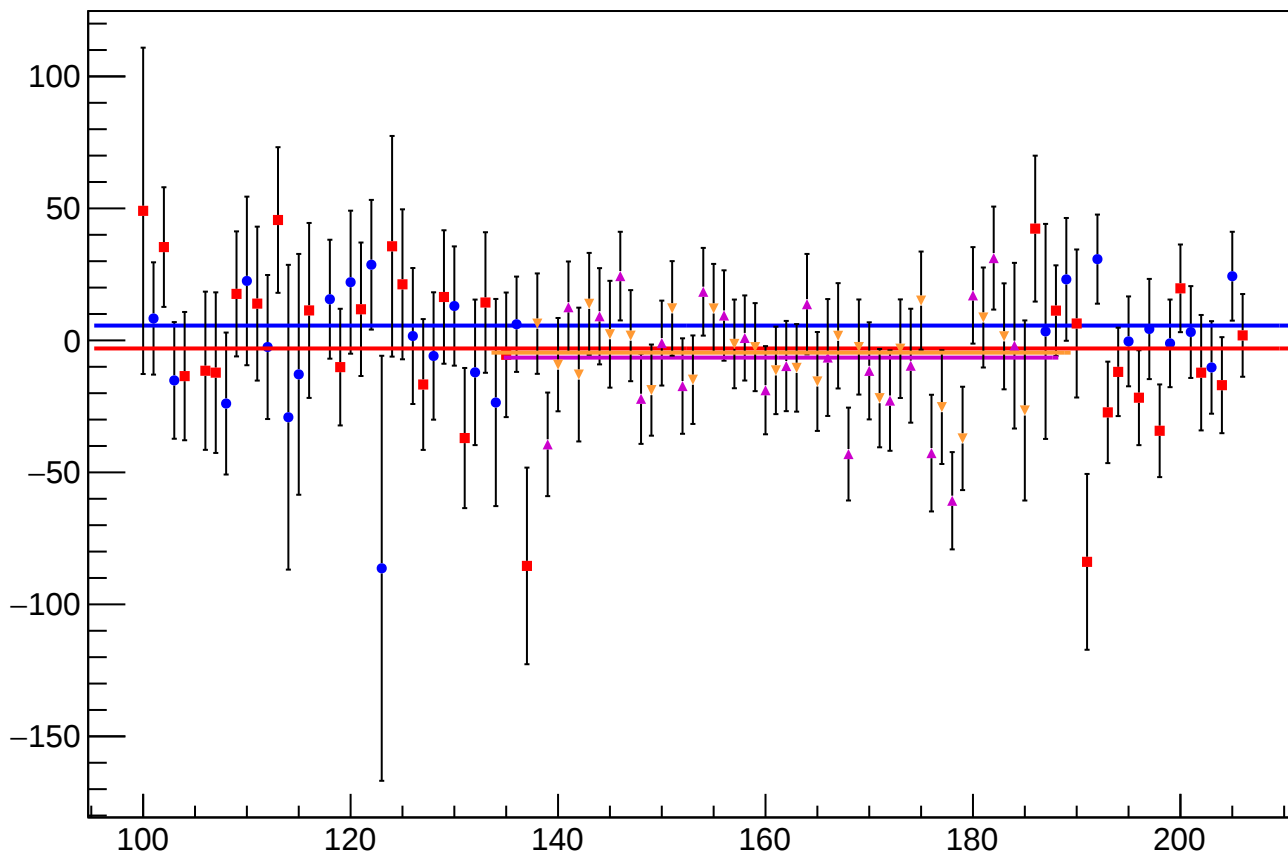
Right: 171.576 $\pm$ 0.024 χ^2 /NDF: 4850267.3/56

In: 175.402 $\pm$ 0.024 χ^2 /NDF:3717262.5/48

Out: 183.448 $\pm$ 0.024 χ^2 /NDF:4861524.3/55

All: 179.426 $\pm$ 0.017 χ^2 /NDF: 8636872.9/104

asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 5.615 $\pm$ 4.471 χ^2 /NDF: 12.2/25

Left Out: -4.646 $\pm$ 3.728 χ^2 /NDF:12.1/24

Right Out: -3.059 $\pm$ 4.168 χ^2 /NDF: 36.5/30

Left In: -6.526 $\pm$ 3.828 χ^2 /NDF:36.4/22

Left: -5.561 $\pm$ 2.670 χ^2 /NDF: 48.6/47

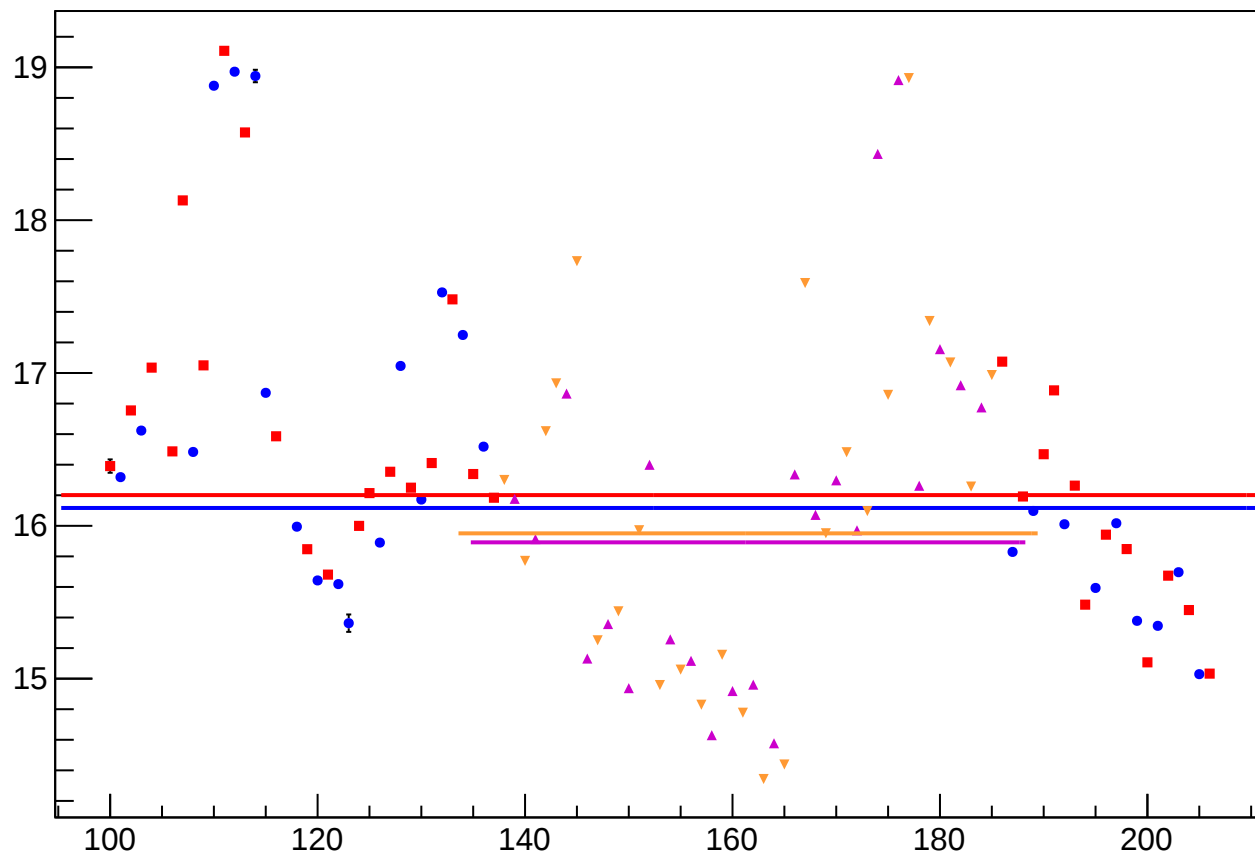
Right: 0.974 $\pm$ 3.049 χ^2 /NDF: 50.7/56

In: -1.392 $\pm$ 2.908 χ^2 /NDF:52.9/48

Out: -3.941 $\pm$ 2.779 χ^2 /NDF:48.6/55

All: -2.724 $\pm$ 2.009 χ^2 /NDF: 101.9/104

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 16.117 $\pm$ 0.003 χ^2 /NDF: 76025.3/25

Left Out: 15.951 $\pm$ 0.003 χ^2 /NDF:173458.5/24

Right Out: 16.201 $\pm$ 0.003 χ^2 /NDF: 87945.0/30

Left In: 15.892 $\pm$ 0.003 χ^2 /NDF:147093.3/22

Left: 15.922 $\pm$ 0.002 χ^2 /NDF: 320794.5/47

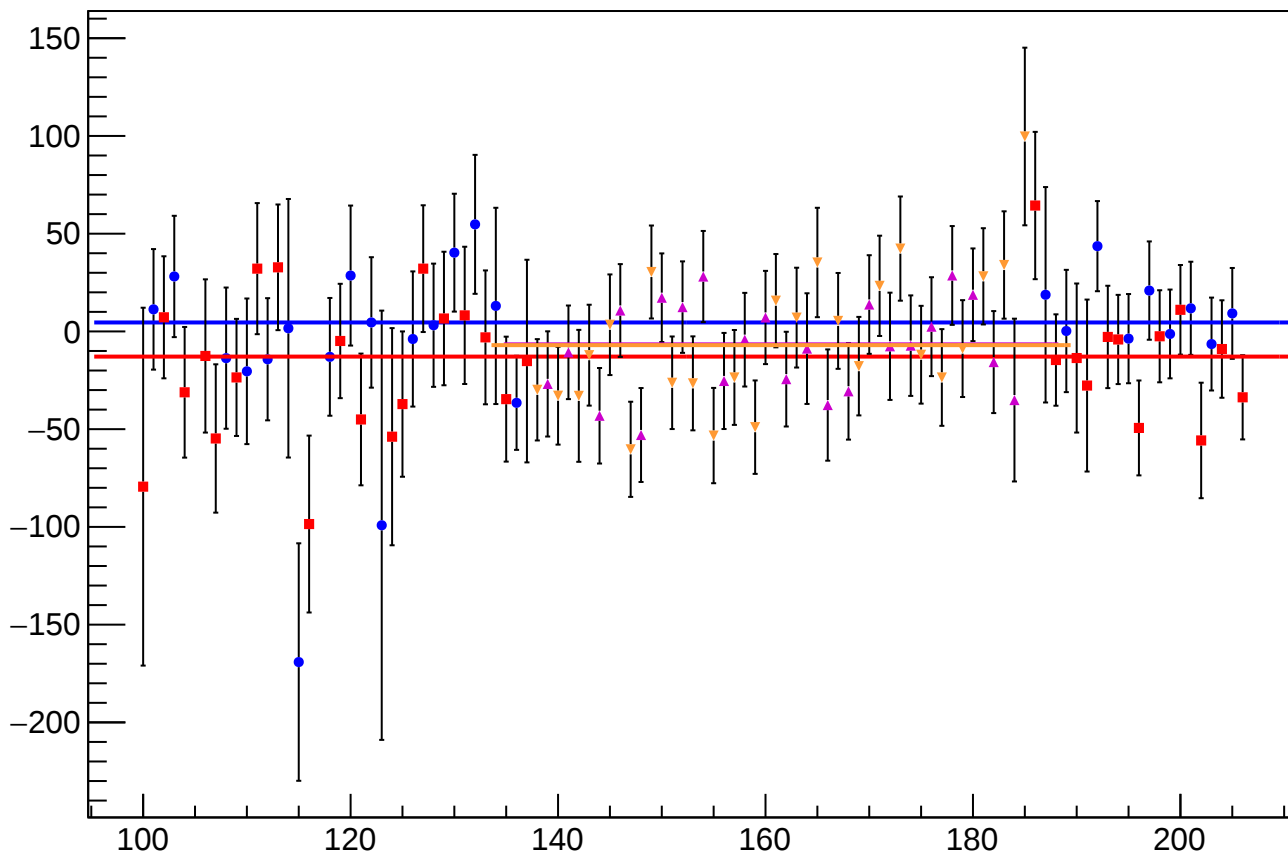
Right: 16.162 $\pm$ 0.002 χ^2 /NDF: 164350.0/56

In: 15.987 $\pm$ 0.002 χ^2 /NDF:226040.2/48

Out: 16.062 $\pm$ 0.002 χ^2 /NDF:265411.6/55

All: 16.026 $\pm$ 0.001 χ^2 /NDF: 492146.7/104

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 4.585 ± 5.989 $\chi^2/\text{NDF}: 21.9/25$

Left Out: -7.017 ± 5.121 $\chi^2/\text{NDF}: 37.4/24$

Right Out: -12.876 ± 5.573 $\chi^2/\text{NDF}: 26.3/30$

Left In: -6.611 ± 5.251 $\chi^2/\text{NDF}: 19.1/22$

Left: -6.820 ± 3.666 $\chi^2/\text{NDF}: 56.6/47$

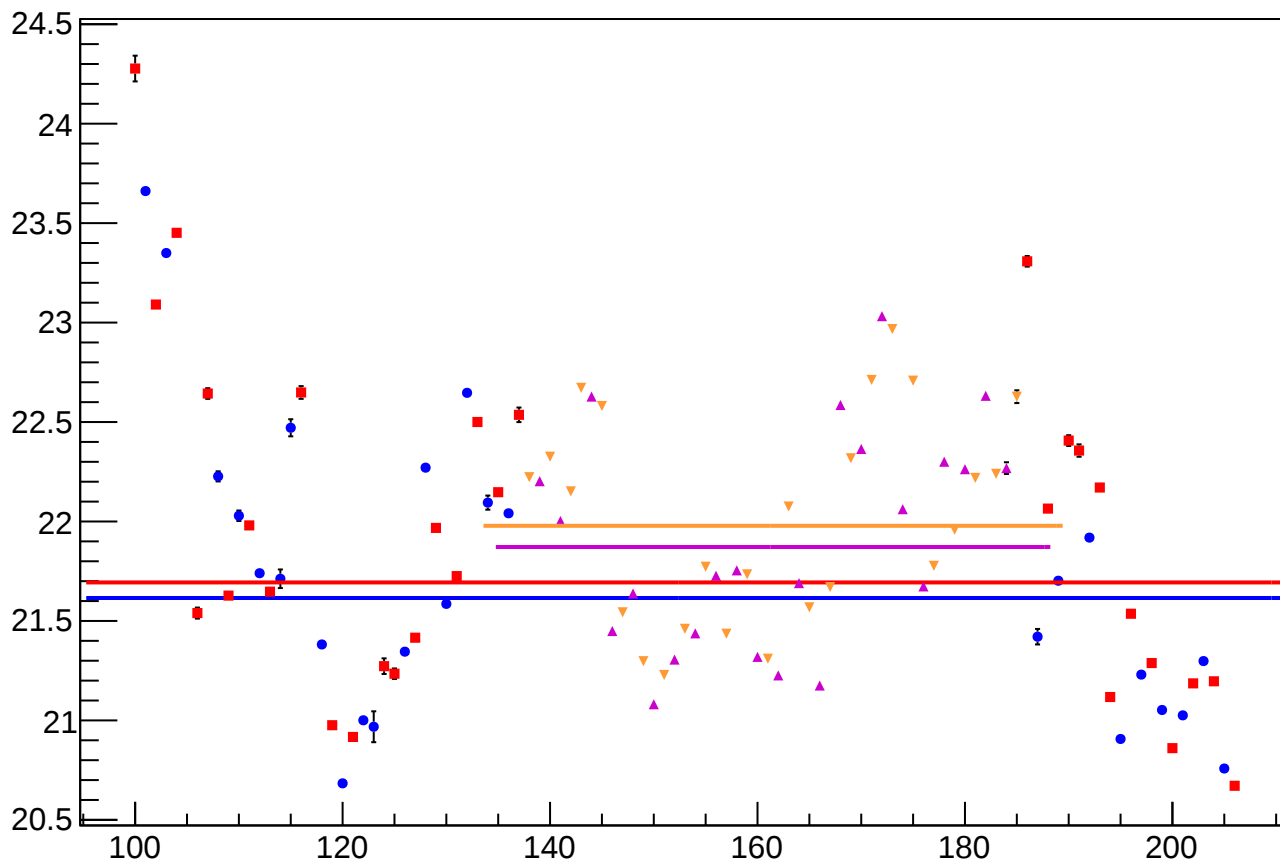
Right: -4.773 ± 4.080 $\chi^2/\text{NDF}: 52.8/56$

In: -1.745 ± 3.948 $\chi^2/\text{NDF}: 43.0/48$

Out: -9.700 ± 3.771 $\chi^2/\text{NDF}: 64.4/55$

All: -5.905 ± 2.727 $\chi^2/\text{NDF}: 109.5/104$

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 21.615+/-0.004 χ^2/NDF : 30326.7/25

Left Out: 21.978+/-0.004 χ^2/NDF :19430.2/24

Right Out: 21.694+/-0.004 χ^2/NDF : 34948.6/30

Left In: 21.872+/-0.004 χ^2/NDF :20524.9/22

Left: 21.926+/-0.003 χ^2/NDF : 40377.5/47

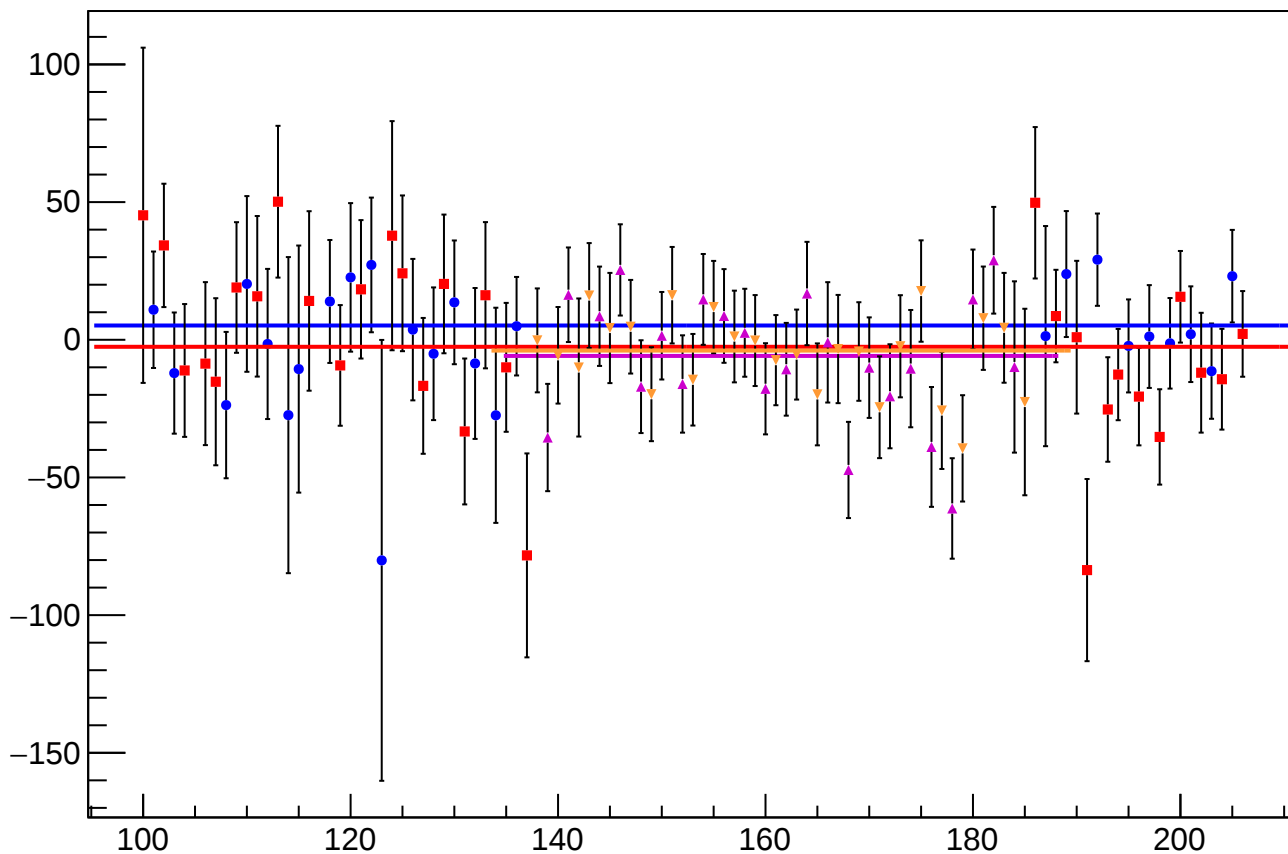
Right: 21.657+/-0.003 χ^2/NDF : 65458.2/56

In: 21.760+/-0.003 χ^2/NDF :52924.0/48

Out: 21.848+/-0.003 χ^2/NDF :57210.2/55

All: 21.806+/-0.002 χ^2/NDF : 110649.7/104

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 5.185 ± 4.439 $\chi^2/\text{NDF}: 11.6/25$

Left Out: -3.927 ± 3.688 $\chi^2/\text{NDF}: 14.0/24$

Right Out: -2.546 ± 4.138 $\chi^2/\text{NDF}: 37.1/30$

Left In: -5.861 ± 3.787 $\chi^2/\text{NDF}: 36.2/22$

Left: -4.869 ± 2.642 $\chi^2/\text{NDF}: 50.3/47$

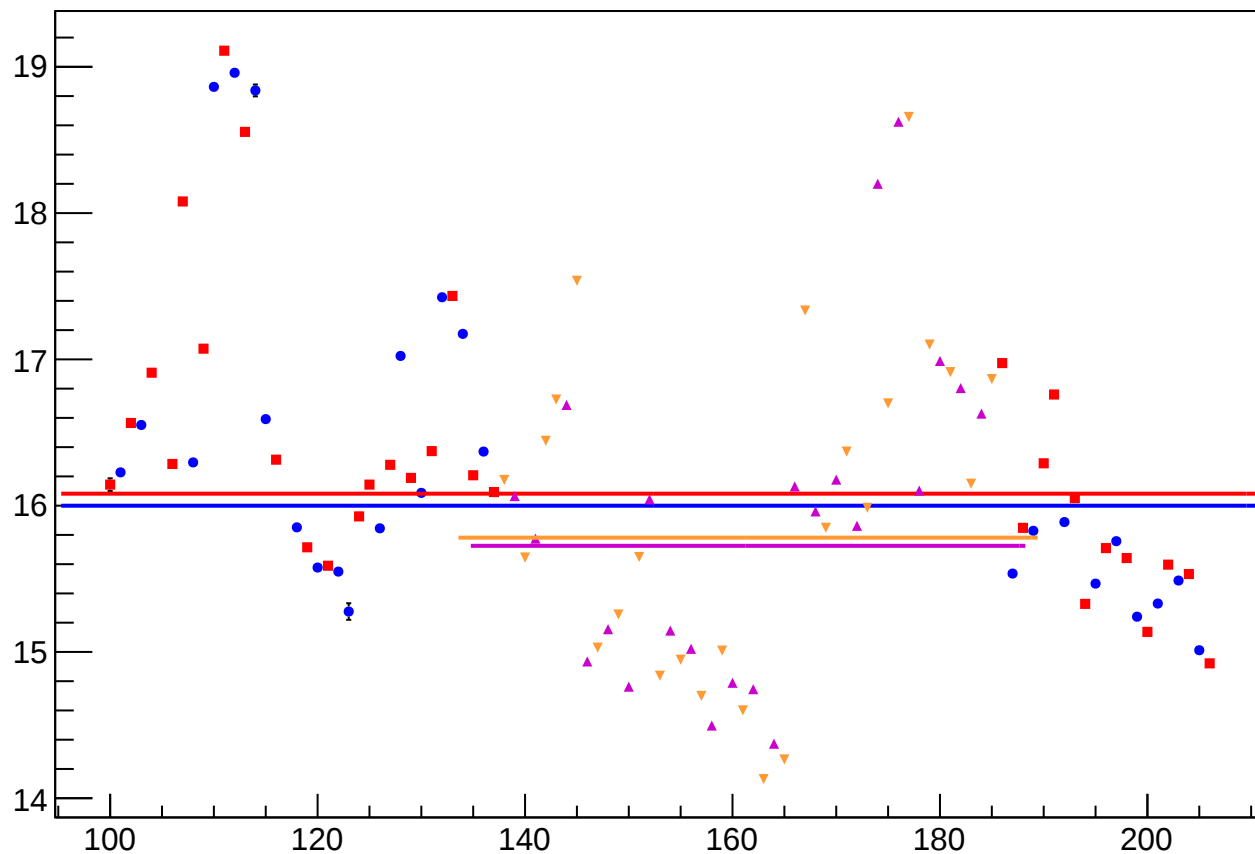
Right: 1.049 ± 3.027 $\chi^2/\text{NDF}: 50.3/56$

In: -1.208 ± 2.881 $\chi^2/\text{NDF}: 51.4/48$

Out: -3.316 ± 2.753 $\chi^2/\text{NDF}: 51.1/55$

All: -2.310 ± 1.990 $\chi^2/\text{NDF}: 102.8/104$

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 16.000 ± 0.003 $\chi^2/\text{NDF}: 78541.8/25$

Left Out: 15.781 ± 0.003 $\chi^2/\text{NDF}: 172894.3/24$

Right Out: 16.044 ± 0.002 $\chi^2/\text{NDF}: 169381.2/56$

Left In: 15.841 ± 0.002 $\chi^2/\text{NDF}: 228790.8/48$

Left: 15.754 ± 0.002 $\chi^2/\text{NDF}: 318948.8/47$

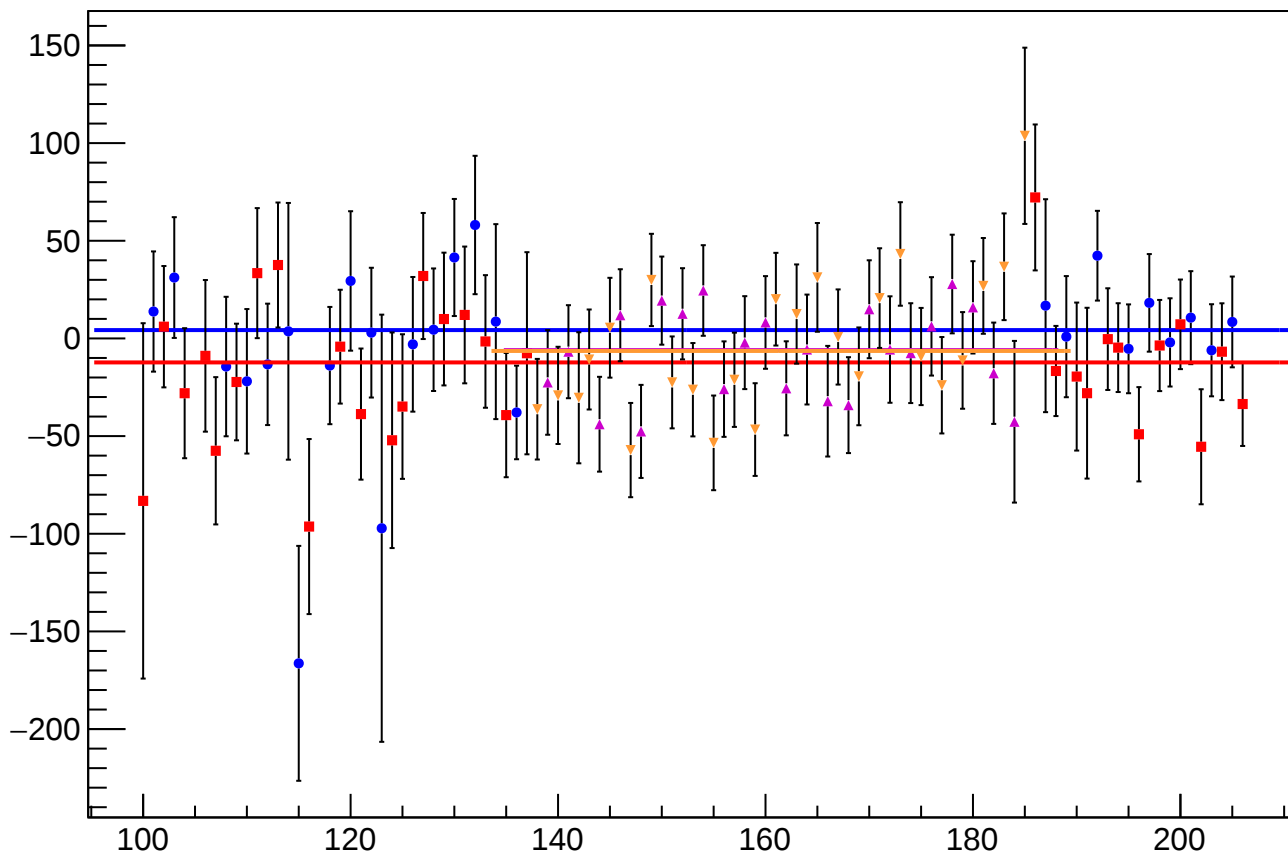
Right: 16.044 ± 0.002 $\chi^2/\text{NDF}: 169381.2/56$

In: 15.841 ± 0.002 $\chi^2/\text{NDF}: 228790.8/48$

Out: 15.914 ± 0.002 $\chi^2/\text{NDF}: 269249.4/55$

All: 15.879 ± 0.001 $\chi^2/\text{NDF}: 498719.8/104$

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 4.273 ± 5.961 $\chi^2/\text{NDF}: 22.4/25$

Left Out: -6.404 ± 5.091 $\chi^2/\text{NDF}: 37.4/24$

Right Out: -12.285 ± 5.543 $\chi^2/\text{NDF}: 27.8/30$

Left In: -5.978 ± 5.222 $\chi^2/\text{NDF}: 18.5/22$

Left: -6.196 ± 3.646 $\chi^2/\text{NDF}: 55.9/47$

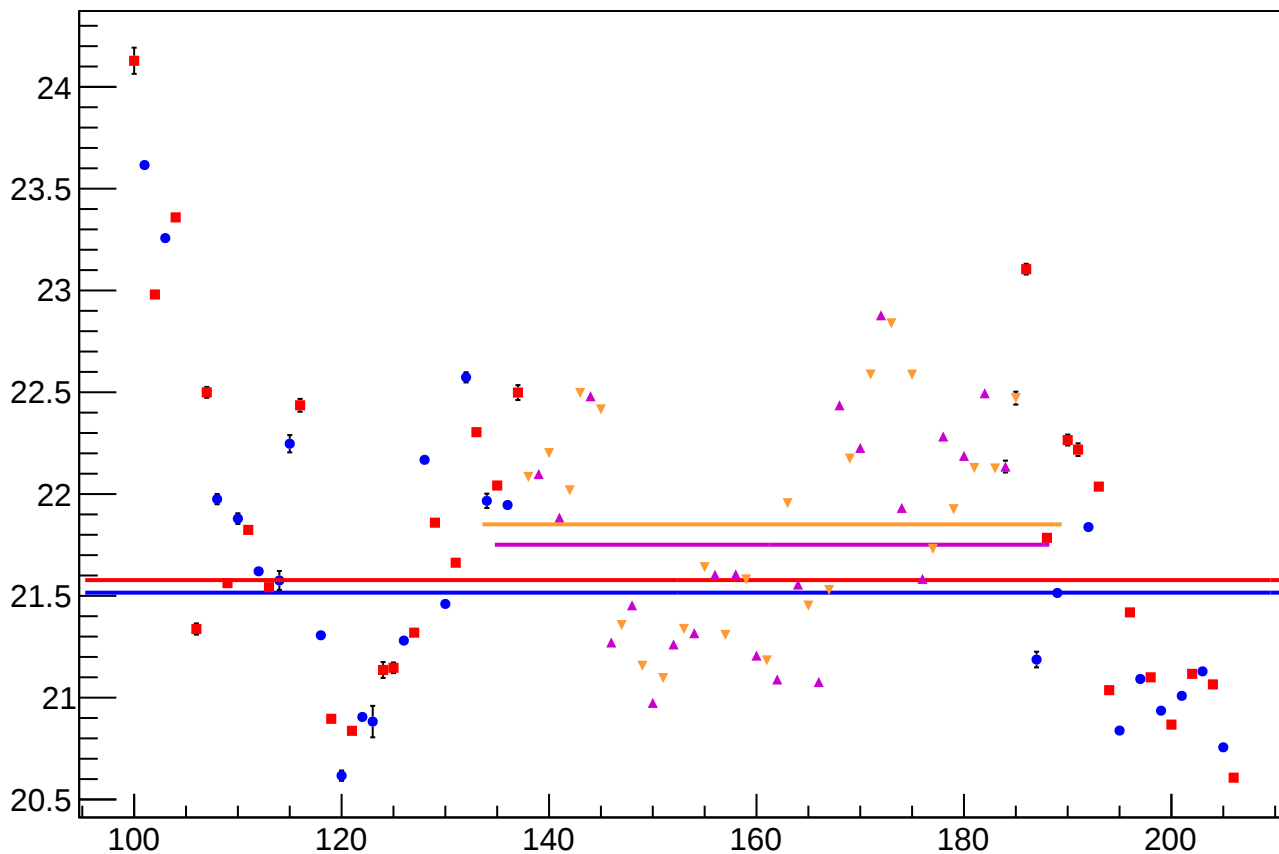
Right: -4.608 ± 4.059 $\chi^2/\text{NDF}: 54.3/56$

In: -1.527 ± 3.928 $\chi^2/\text{NDF}: 42.6/48$

Out: -9.095 ± 3.750 $\chi^2/\text{NDF}: 65.8/55$

All: -5.487 ± 2.712 $\chi^2/\text{NDF}: 110.3/104$

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 21.516 ± 0.004 χ^2/NDF : 29888.8/25

Left Out: 21.851 ± 0.004 χ^2/NDF : 19631.8/24

Right Out: 21.577 ± 0.004 χ^2/NDF : 32833.7/30

Left In: 21.751 ± 0.004 χ^2/NDF : 20516.3/22

Left: 21.802 ± 0.003 χ^2/NDF : 40523.6/47

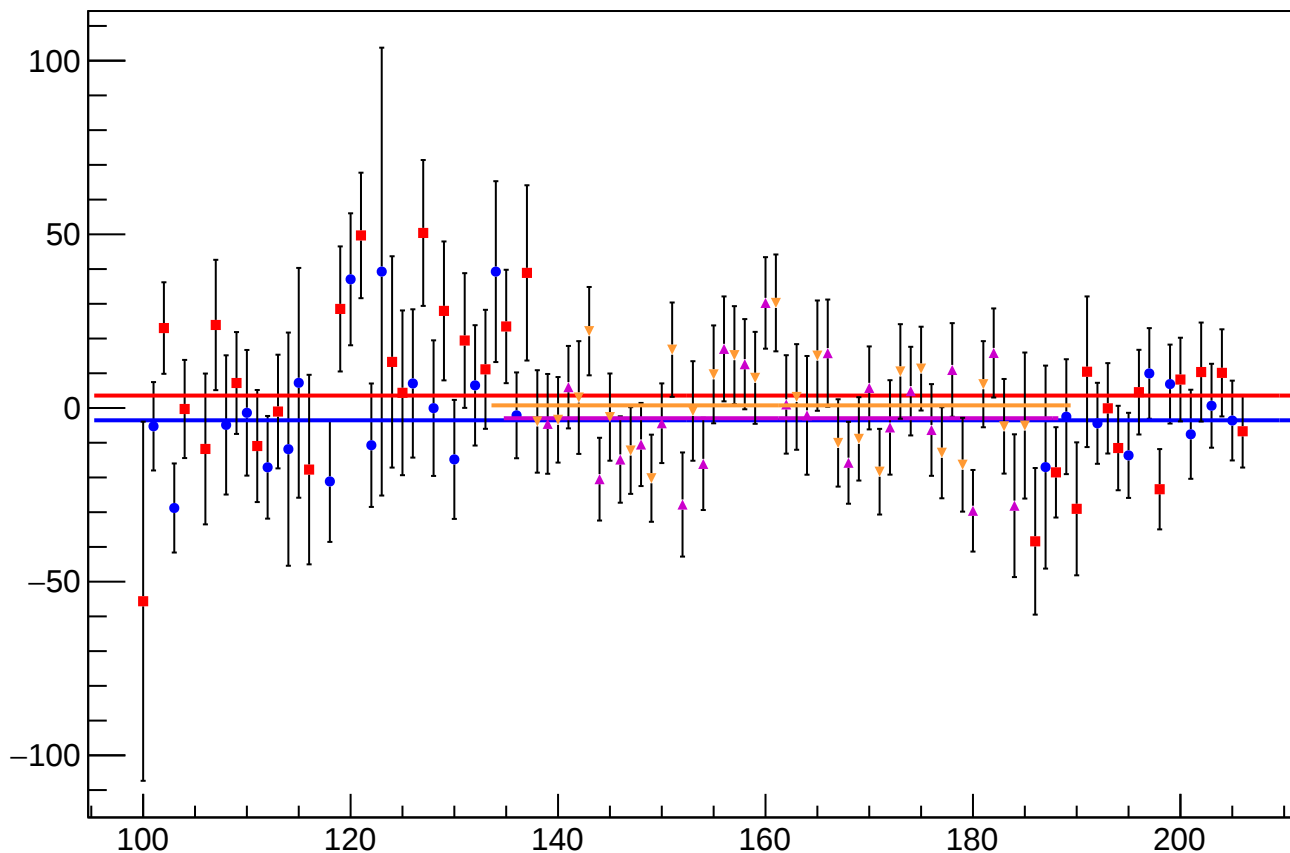
Right: 21.549 ± 0.003 χ^2/NDF : 62837.4/56

In: 21.649 ± 0.003 χ^2/NDF : 52170.4/48

Out: 21.726 ± 0.003 χ^2/NDF : 55110.1/55

All: 21.689 ± 0.002 χ^2/NDF : 107681.8/104

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -3.542 ± 3.068 $\chi^2/\text{NDF}: 17.9/25$

Left Out: 0.759 ± 2.698 $\chi^2/\text{NDF}: 23.8/24$

Right Out: 3.581 ± 2.862 $\chi^2/\text{NDF}: 44.6/30$

Left In: -2.944 ± 2.757 $\chi^2/\text{NDF}: 30.9/22$

Left: -1.053 ± 1.929 $\chi^2/\text{NDF}: 55.7/47$

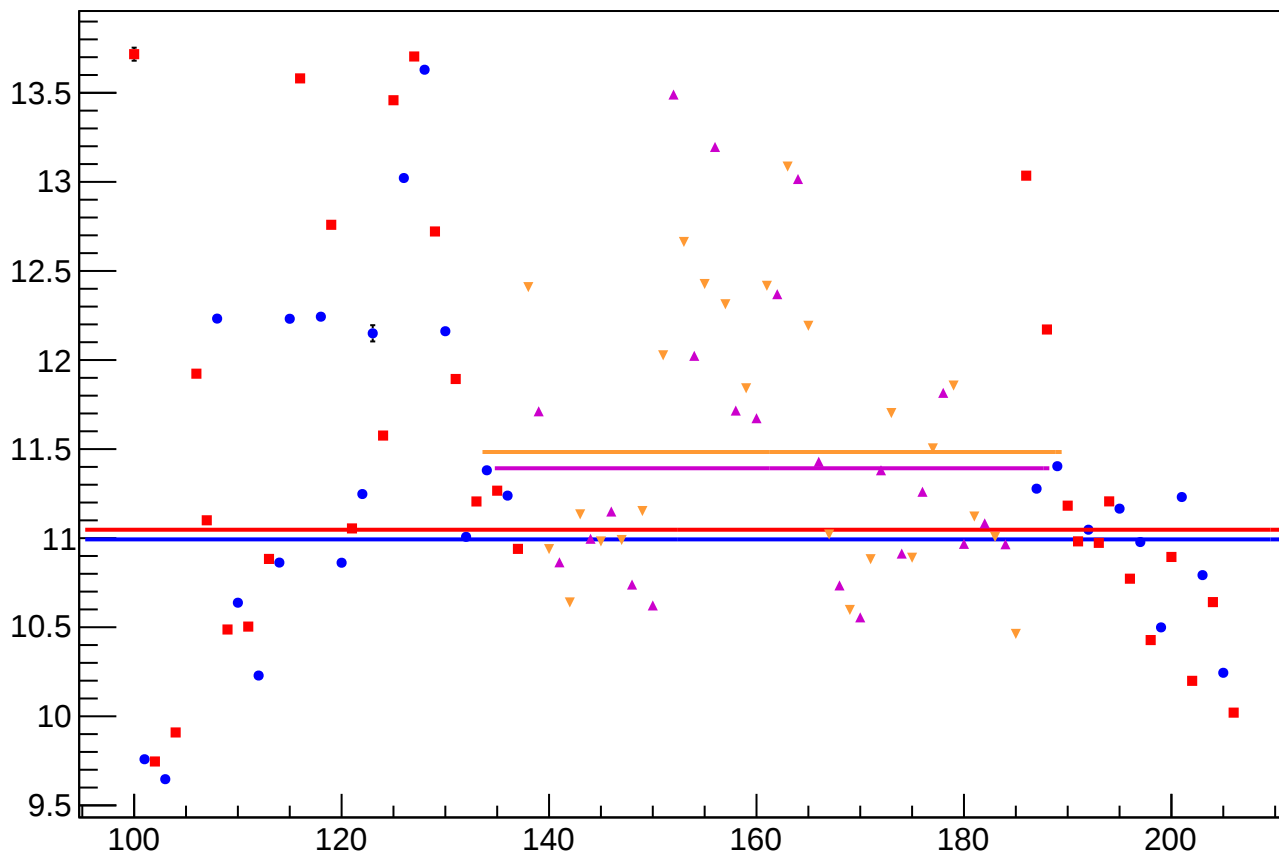
Right: 0.267 ± 2.093 $\chi^2/\text{NDF}: 65.4/56$

In: -3.211 ± 2.051 $\chi^2/\text{NDF}: 48.9/48$

Out: 2.087 ± 1.963 $\chi^2/\text{NDF}: 68.9/55$

All: -0.446 ± 1.418 $\chi^2/\text{NDF}: 121.3/104$

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 10.993 $\pm$ 0.002 χ^2 /NDF: 149394.3/25

Left Out: 11.484 $\pm$ 0.002 χ^2 /NDF:129805.4/24

Right Out: 11.047 $\pm$ 0.002 χ^2 /NDF: 222255.2/30

Left In: 11.392 $\pm$ 0.002 χ^2 /NDF:150493.3/22

Left: 11.439 $\pm$ 0.001 χ^2 /NDF: 281419.2/47

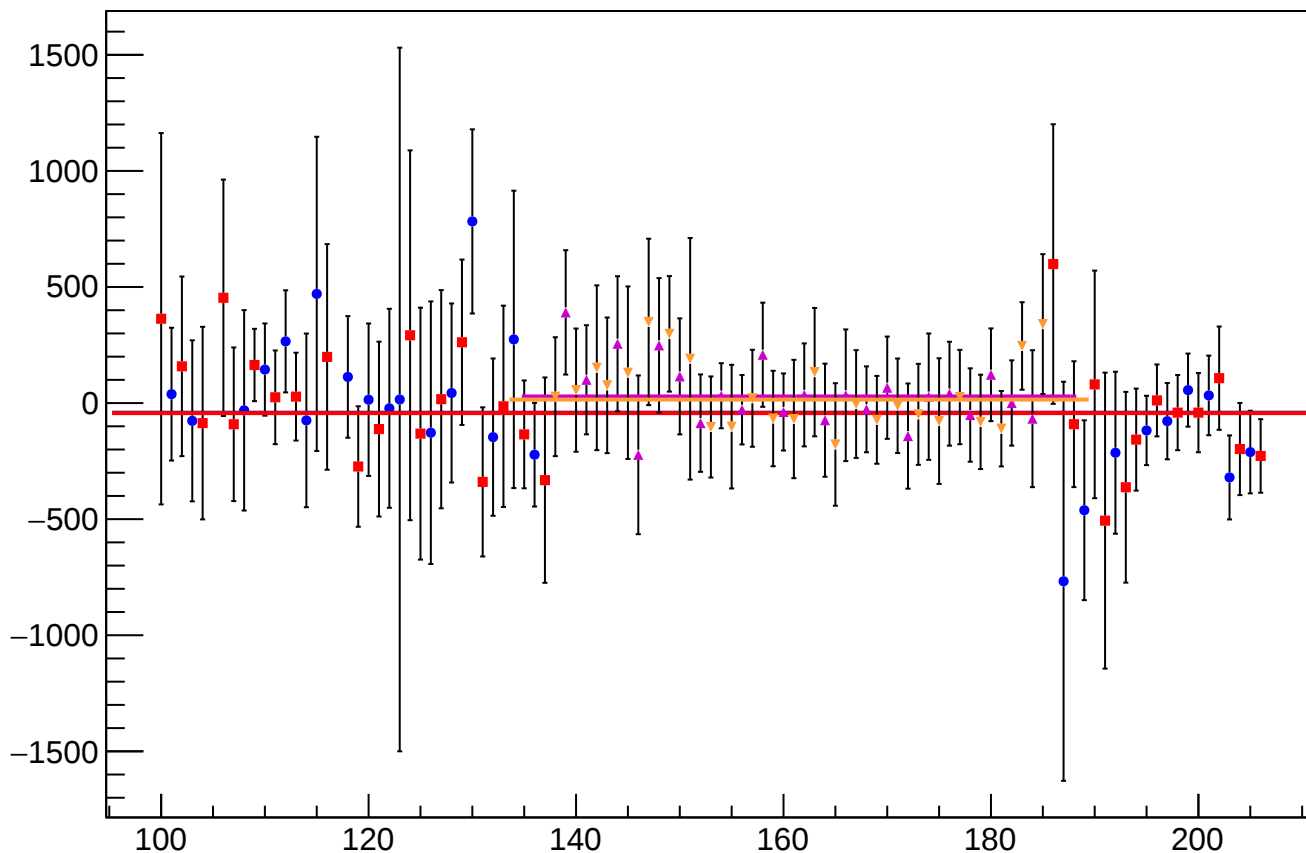
Right: 11.022 $\pm$ 0.001 χ^2 /NDF: 371983.5/56

In: 11.214 $\pm$ 0.001 χ^2 /NDF:318623.2/48

Out: 11.278 $\pm$ 0.001 χ^2 /NDF:376675.1/55

All: 11.248 $\pm$ 0.001 χ^2 /NDF: 696326.5/104

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs Slug, Sign Corrected



Right In: -41.483 ± 50.442 $\chi^2/\text{NDF}: 15.6/25$

Left Out: 15.130 ± 47.705 $\chi^2/\text{NDF}: 8.0/24$

Right Out: -43.242 ± 47.026 $\chi^2/\text{NDF}: 12.2/30$

Left In: 28.500 ± 44.797 $\chi^2/\text{NDF}: 6.4/22$

Left: 22.235 ± 32.656 $\chi^2/\text{NDF}: 14.4/47$

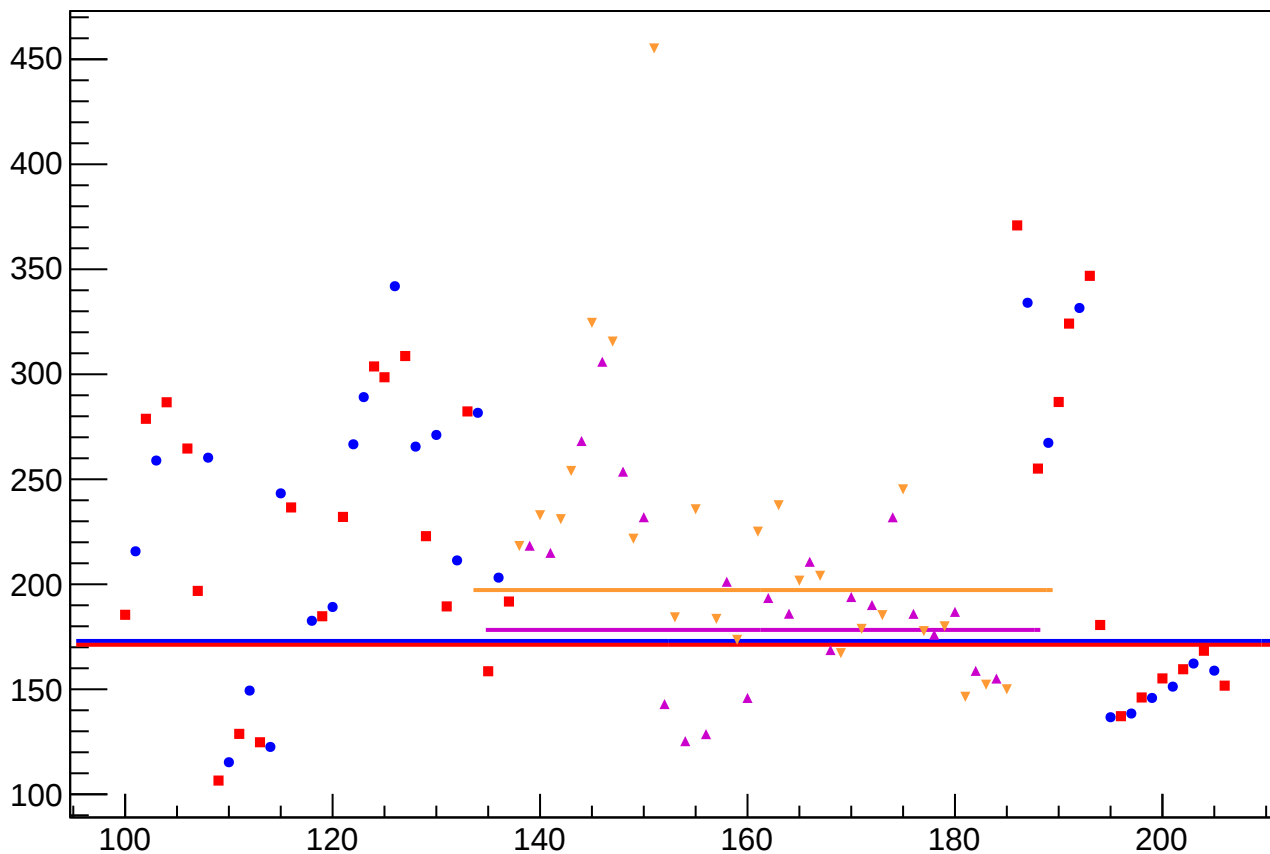
Right: -42.424 ± 34.397 $\chi^2/\text{NDF}: 27.7/56$

In: -2.357 ± 33.495 $\chi^2/\text{NDF}: 23.0/48$

Out: -14.474 ± 33.490 $\chi^2/\text{NDF}: 20.9/55$

All: -8.417 ± 23.683 $\chi^2/\text{NDF}: 44.0/104$

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs Slug, Sign Corrected



Right In: 173.020 $\pm$ 0.036 χ^2 /NDF: 2069899.7/25

Left Out: 197.249 $\pm$ 0.034 χ^2 /NDF:1786808.1/24

Right Out: 171.199 $\pm$ 0.033 χ^2 /NDF: 2770075.3/30

Left In: 178.277 $\pm$ 0.032 χ^2 /NDF:1628916.6/22

Left: 187.167 $\pm$ 0.023 χ^2 /NDF: 3583826.5/47

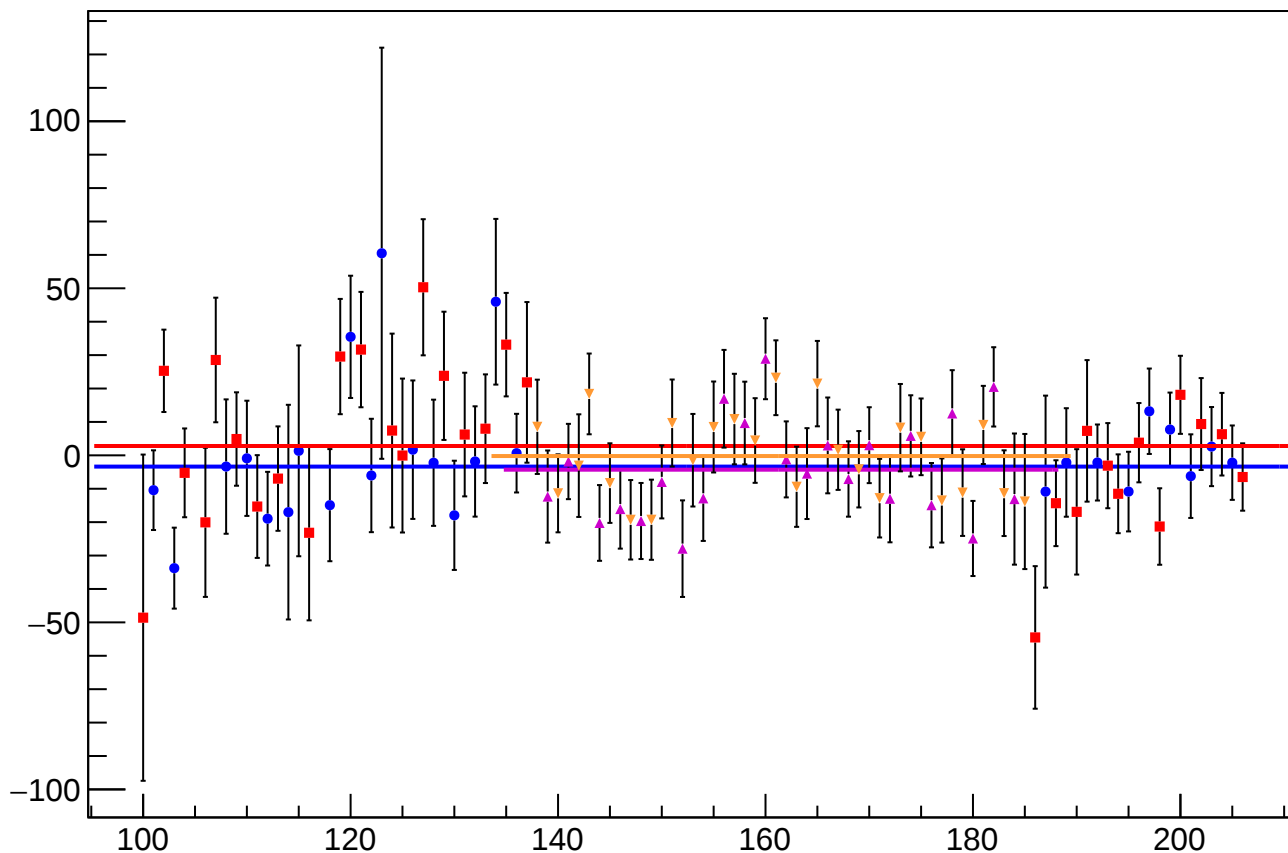
Right: 172.046 $\pm$ 0.024 χ^2 /NDF: 4841369.9/56

In: 175.959 $\pm$ 0.024 χ^2 /NDF:3710961.1/48

Out: 184.037 $\pm$ 0.024 χ^2 /NDF:4859359.2/55

All: 179.999 $\pm$ 0.017 χ^2 /NDF: 8628497.5/104

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs Slug, Sign Corrected



Right In: -3.370 ± 2.962 $\chi^2/\text{NDF}: 22.6/25$

Left Out: -0.211 ± 2.523 $\chi^2/\text{NDF}: 24.5/24$

Right Out: 2.796 ± 2.770 $\chi^2/\text{NDF}: 46.2/30$

Left In: -4.298 ± 2.589 $\chi^2/\text{NDF}: 31.6/22$

Left: -2.202 ± 1.807 $\chi^2/\text{NDF}: 57.4/47$

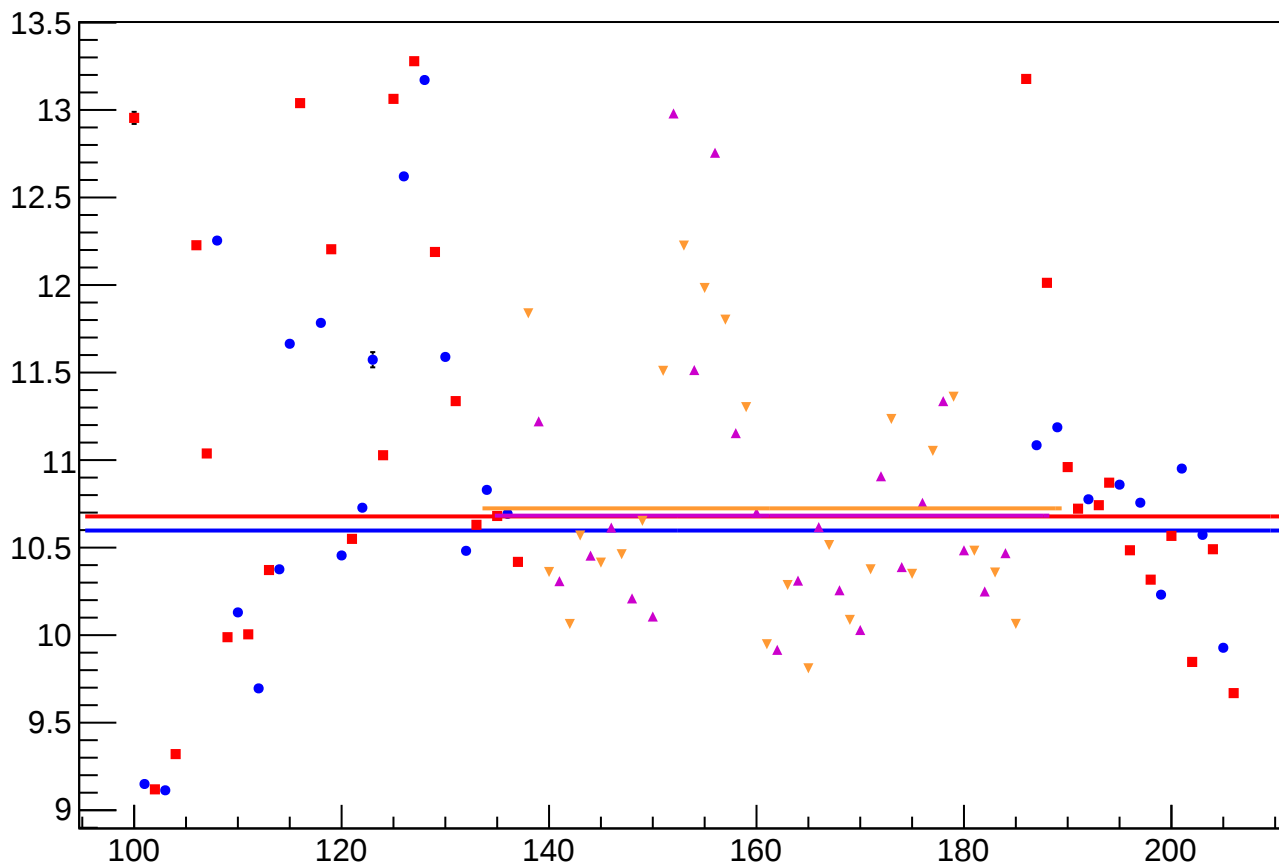
Right: -0.081 ± 2.023 $\chi^2/\text{NDF}: 71.1/56$

In: -3.896 ± 1.949 $\chi^2/\text{NDF}: 54.2/48$

Out: 1.153 ± 1.865 $\chi^2/\text{NDF}: 71.3/55$

All: -1.261 ± 1.348 $\chi^2/\text{NDF}: 129.1/104$

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs Slug, Sign Corrected



Right In: 10.598 $\pm$ 0.002 χ^2 /NDF: 175842.2/25

Left Out: 10.724 $\pm$ 0.002 χ^2 /NDF:132558.9/24

Right Out: 10.678 $\pm$ 0.002 χ^2 /NDF: 259051.8/30

Left In: 10.683 $\pm$ 0.002 χ^2 /NDF:147835.6/22

Left: 10.704 $\pm$ 0.001 χ^2 /NDF: 280658.8/47

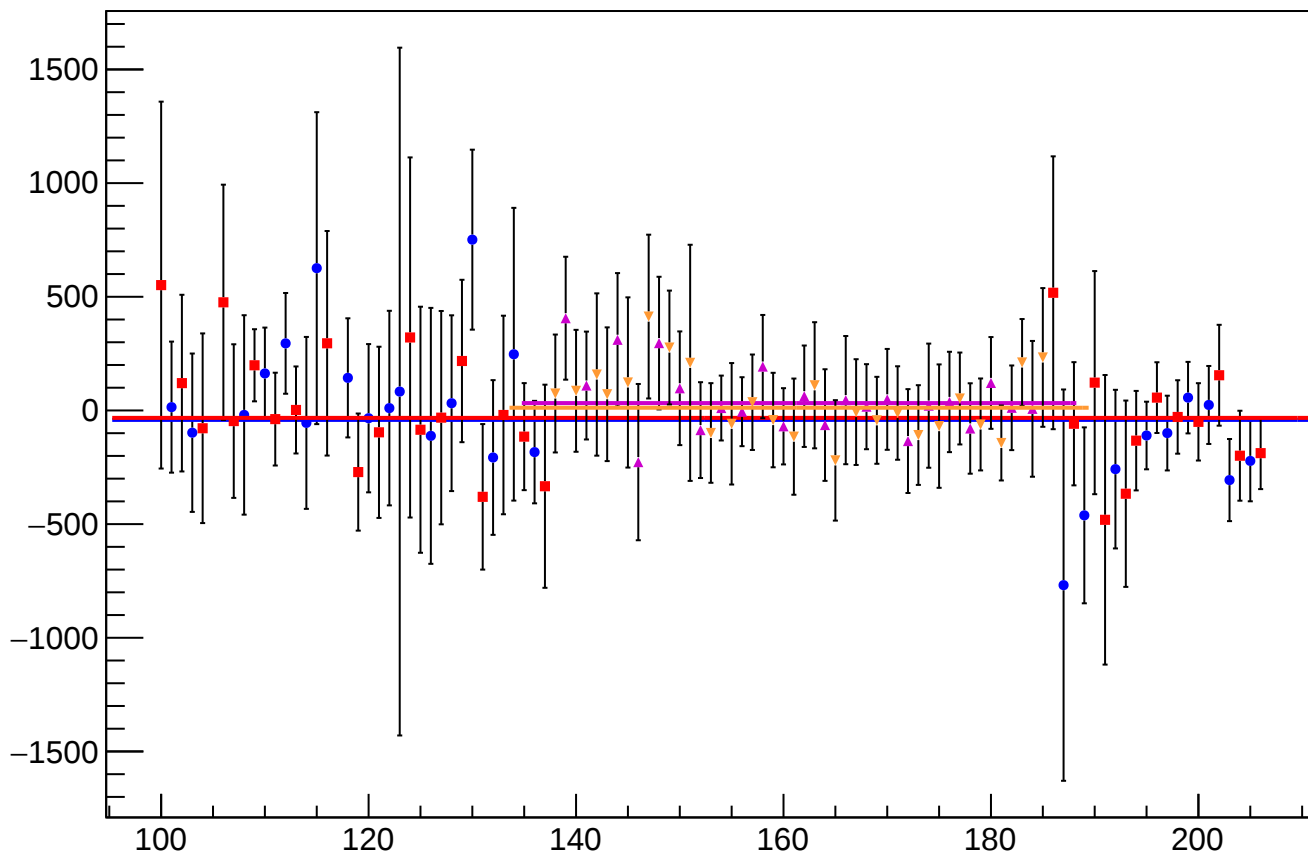
Right: 10.641 $\pm$ 0.001 χ^2 /NDF: 435683.5/56

In: 10.646 $\pm$ 0.001 χ^2 /NDF:324612.6/48

Out: 10.703 $\pm$ 0.001 χ^2 /NDF:391912.7/55

All: 10.676 $\pm$ 0.001 χ^2 /NDF: 717434.4/104

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -41.581 ± 50.535 χ^2/NDF : 16.1/25

Left Out: 11.891 ± 48.022 χ^2/NDF : 7.6/24

Right Out: -32.662 ± 47.196 χ^2/NDF : 12.6/30

Left In: 32.413 ± 45.155 χ^2/NDF : 6.9/22

Left: 22.783 ± 32.896 χ^2/NDF : 14.6/47

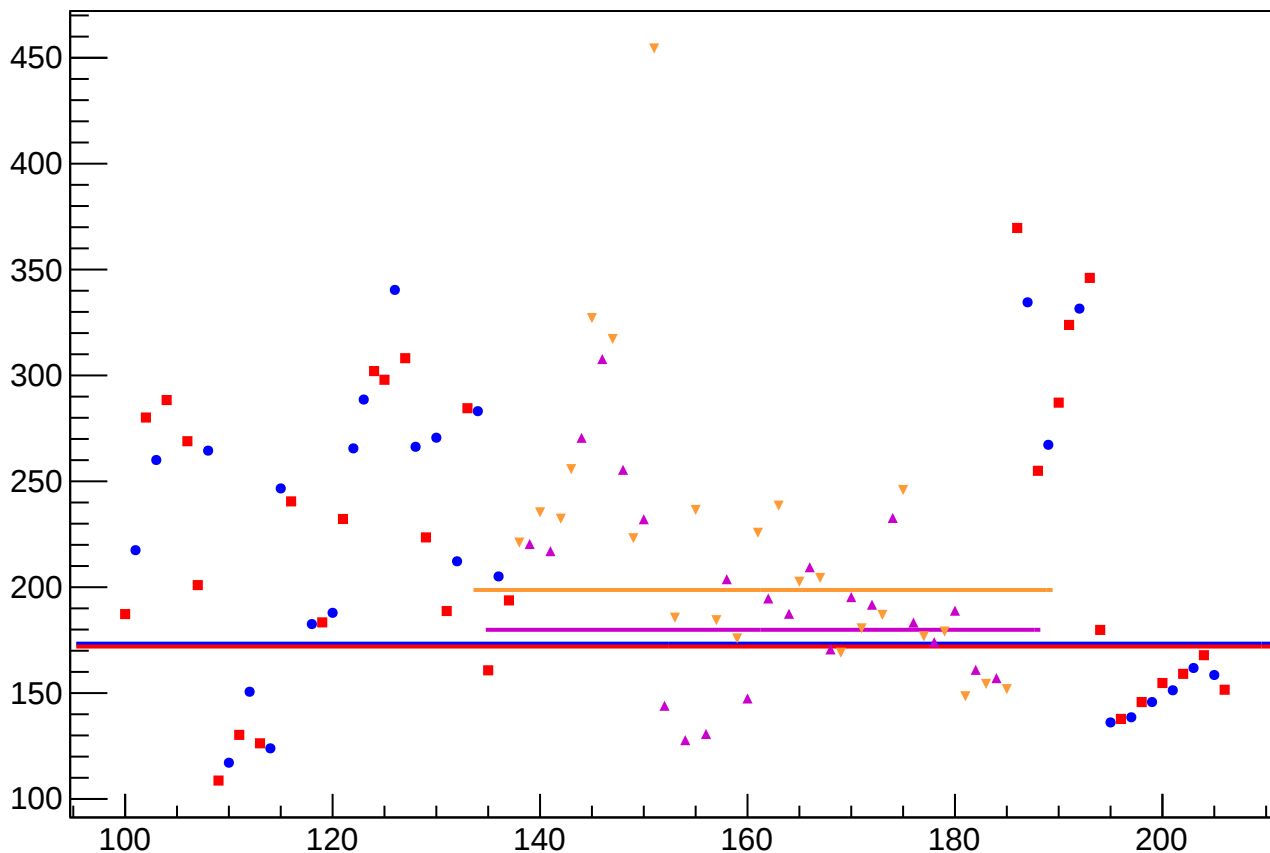
Right: -36.817 ± 34.492 χ^2/NDF : 28.7/56

In: -0.437 ± 33.671 χ^2/NDF : 24.2/48

Out: -10.773 ± 33.661 χ^2/NDF : 20.7/55

All: -5.606 ± 23.805 χ^2/NDF : 44.9/104

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 173.340 $\pm$ 0.036 χ^2 /NDF: 2068304.9/25

Left Out: 198.695 $\pm$ 0.034 χ^2 /NDF:1759311.9/24

Right Out: 171.977 $\pm$ 0.033 χ^2 /NDF: 2728236.3/30

Left In: 179.886 $\pm$ 0.032 χ^2 /NDF:1580636.4/22

Left: 188.712 $\pm$ 0.023 χ^2 /NDF: 3502782.6/47

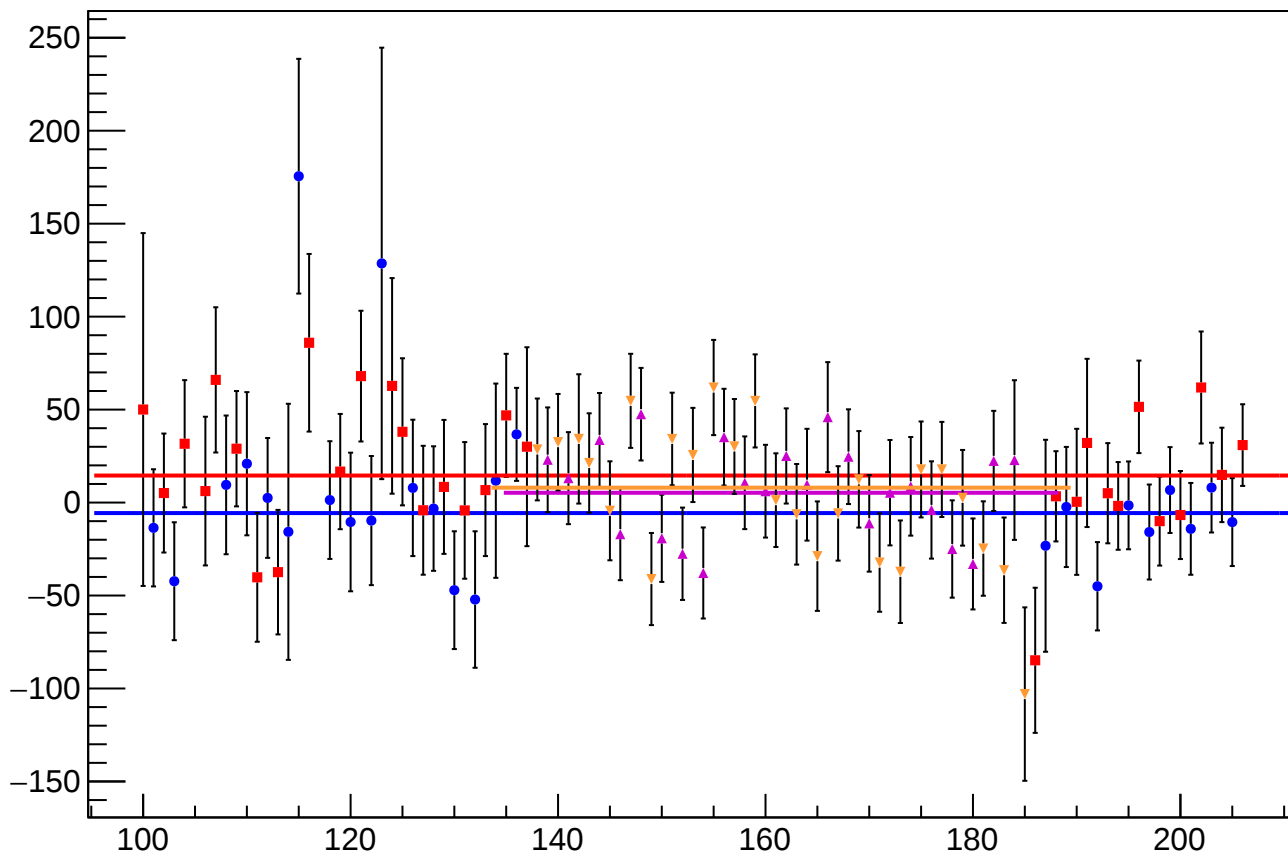
Right: 172.612 $\pm$ 0.024 χ^2 /NDF: 4797318.1/56

In: 176.980 $\pm$ 0.024 χ^2 /NDF:3667605.2/48

Out: 185.104 $\pm$ 0.024 χ^2 /NDF:4802470.1/55

All: 181.043 $\pm$ 0.017 χ^2 /NDF: 8528307.2/104

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -5.651 ± 6.182 χ^2/NDF : 22.0/25

Left Out: 8.004 ± 5.334 χ^2/NDF : 37.4/24

Right Out: 14.536 ± 5.759 χ^2/NDF : 29.3/30

Left In: 5.261 ± 5.465 χ^2/NDF : 20.8/22

Left: 6.665 ± 3.817 χ^2/NDF : 58.3/47

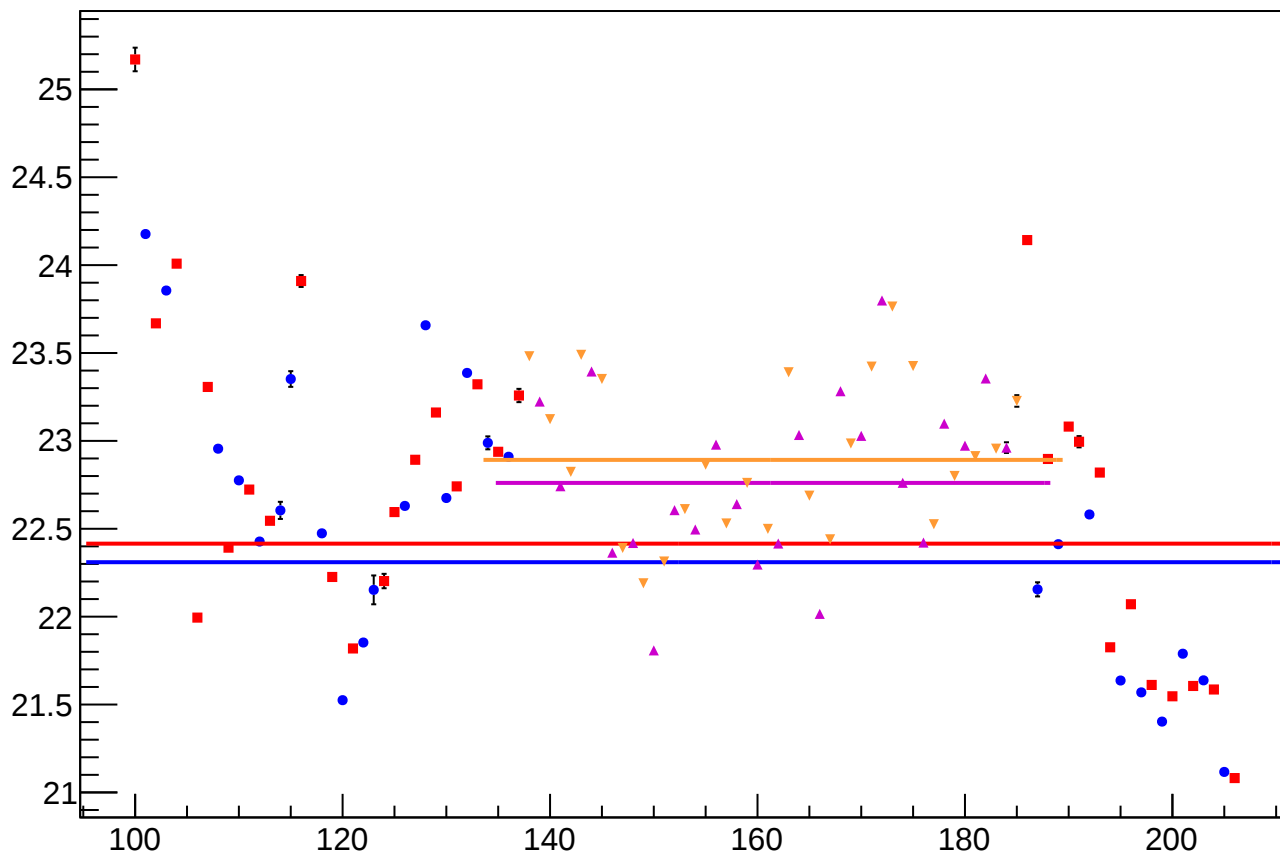
Right: 5.157 ± 4.214 χ^2/NDF : 57.0/56

In: 0.474 ± 4.094 χ^2/NDF : 44.5/48

Out: 11.020 ± 3.913 χ^2/NDF : 67.4/55

All: 5.985 ± 2.829 χ^2/NDF : 115.4/104

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.310+/-0.004 χ^2/NDF : 35658.2/25

Left Out: 22.892+/-0.004 χ^2/NDF :12995.5/24

Right Out: 22.415+/-0.004 χ^2/NDF : 40510.1/30

Left In: 22.761+/-0.004 χ^2/NDF :14550.0/22

Left: 22.828+/-0.003 χ^2/NDF : 28133.9/47

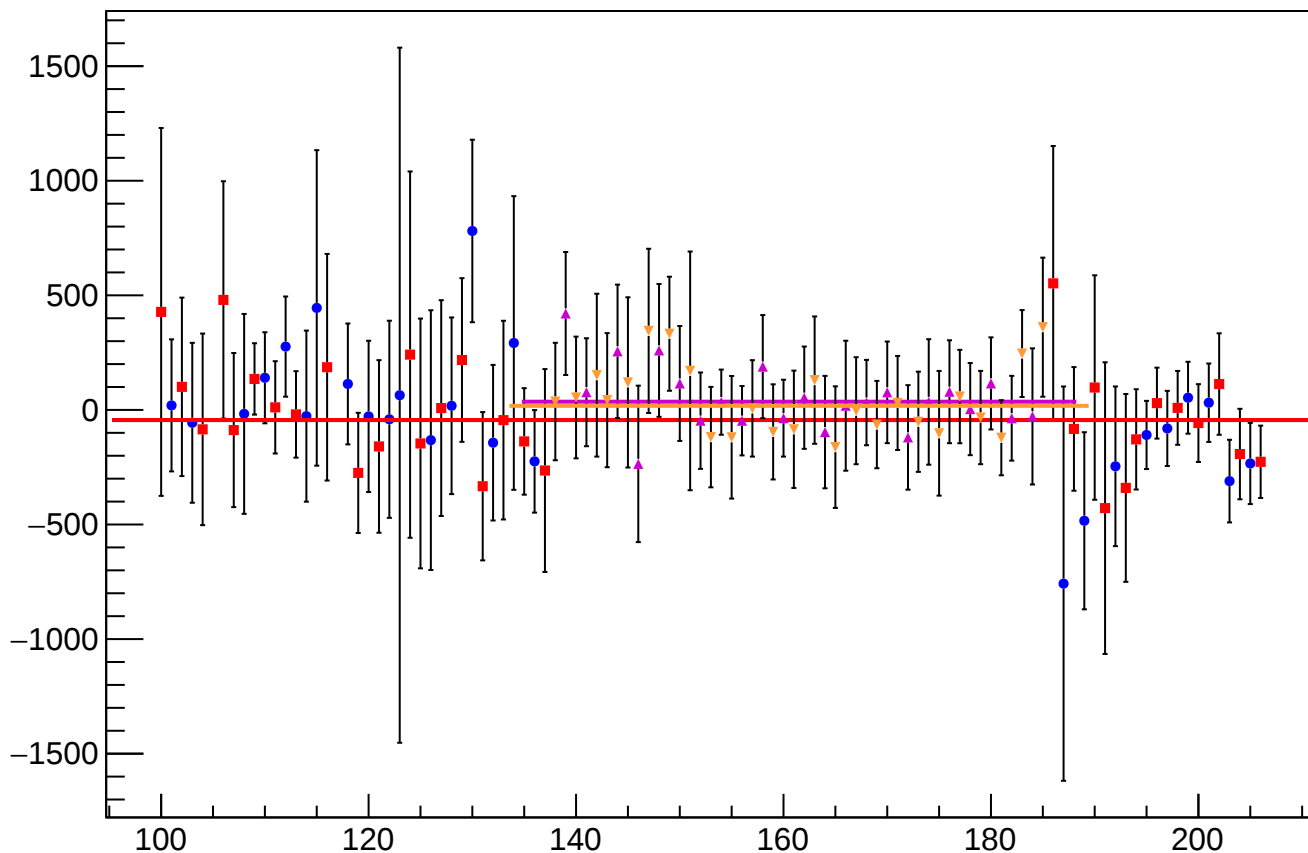
Right: 22.366+/-0.003 χ^2/NDF : 76480.4/56

In: 22.563+/-0.003 χ^2/NDF :56186.6/48

Out: 22.672+/-0.003 χ^2/NDF :60877.1/55

All: 22.620+/-0.002 χ^2/NDF : 117801.9/104

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -44.284 ± 50.388 $\chi^2/\text{NDF}: 15.8/25$

Left Out: 17.777 ± 47.941 $\chi^2/\text{NDF}: 8.5/24$

Right Out: -44.100 ± 46.980 $\chi^2/\text{NDF}: 10.8/30$

Left In: 35.879 ± 45.087 $\chi^2/\text{NDF}: 6.3/22$

Left: 27.383 ± 32.844 $\chi^2/\text{NDF}: 14.9/47$

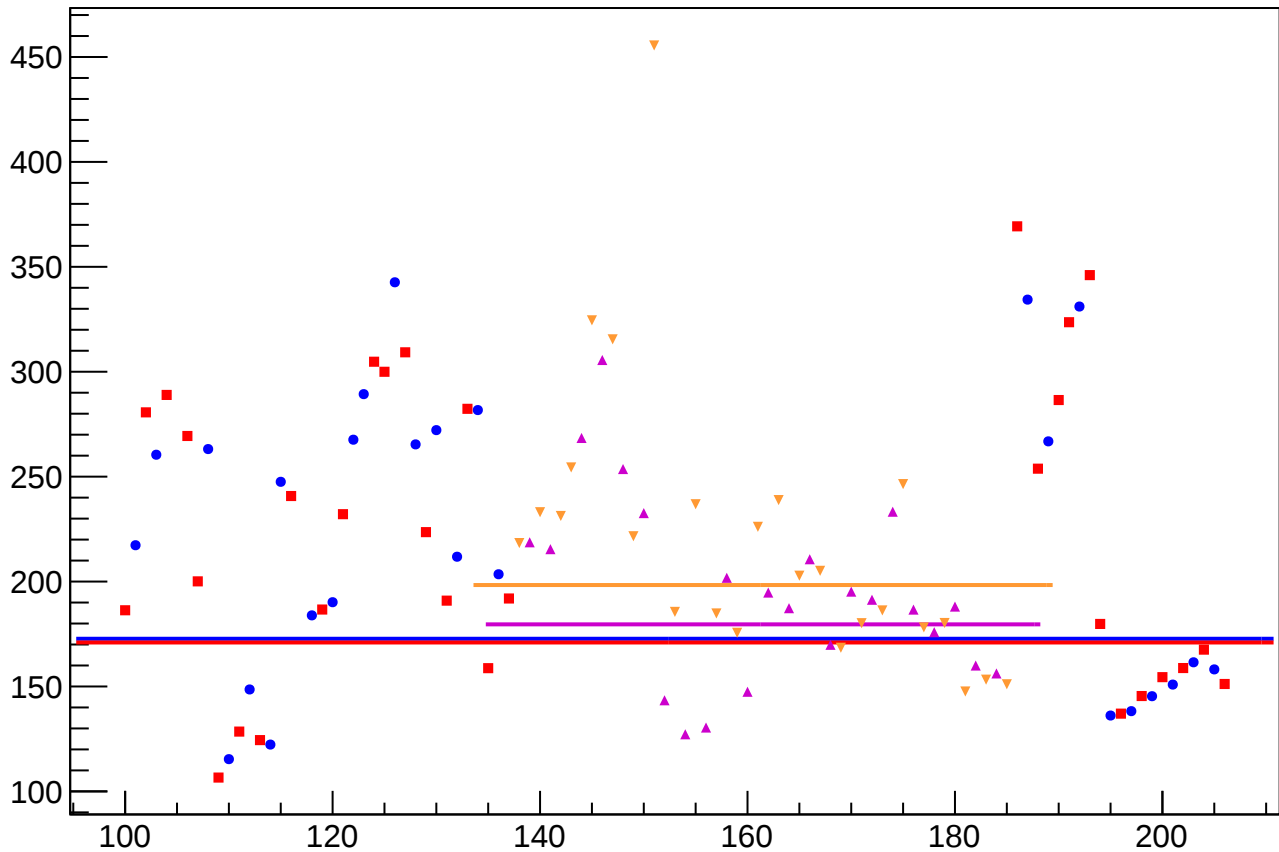
Right: -44.186 ± 34.362 $\chi^2/\text{NDF}: 26.6/56$

In: 0.234 ± 33.600 $\chi^2/\text{NDF}: 23.5/48$

Out: -13.788 ± 33.555 $\chi^2/\text{NDF}: 20.2/55$

All: -6.786 ± 23.743 $\chi^2/\text{NDF}: 43.8/104$

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 172.740 $\pm$ 0.036 χ^2 /NDF: 2098856.7/25

Left Out: 198.344 $\pm$ 0.034 χ^2 /NDF:1757450.6/24

Right Out: 170.964 $\pm$ 0.033 χ^2 /NDF: 2797642.9/30

Left In: 179.605 $\pm$ 0.032 χ^2 /NDF:1575744.0/22

Left: 188.400 $\pm$ 0.023 χ^2 /NDF: 3495336.8/47

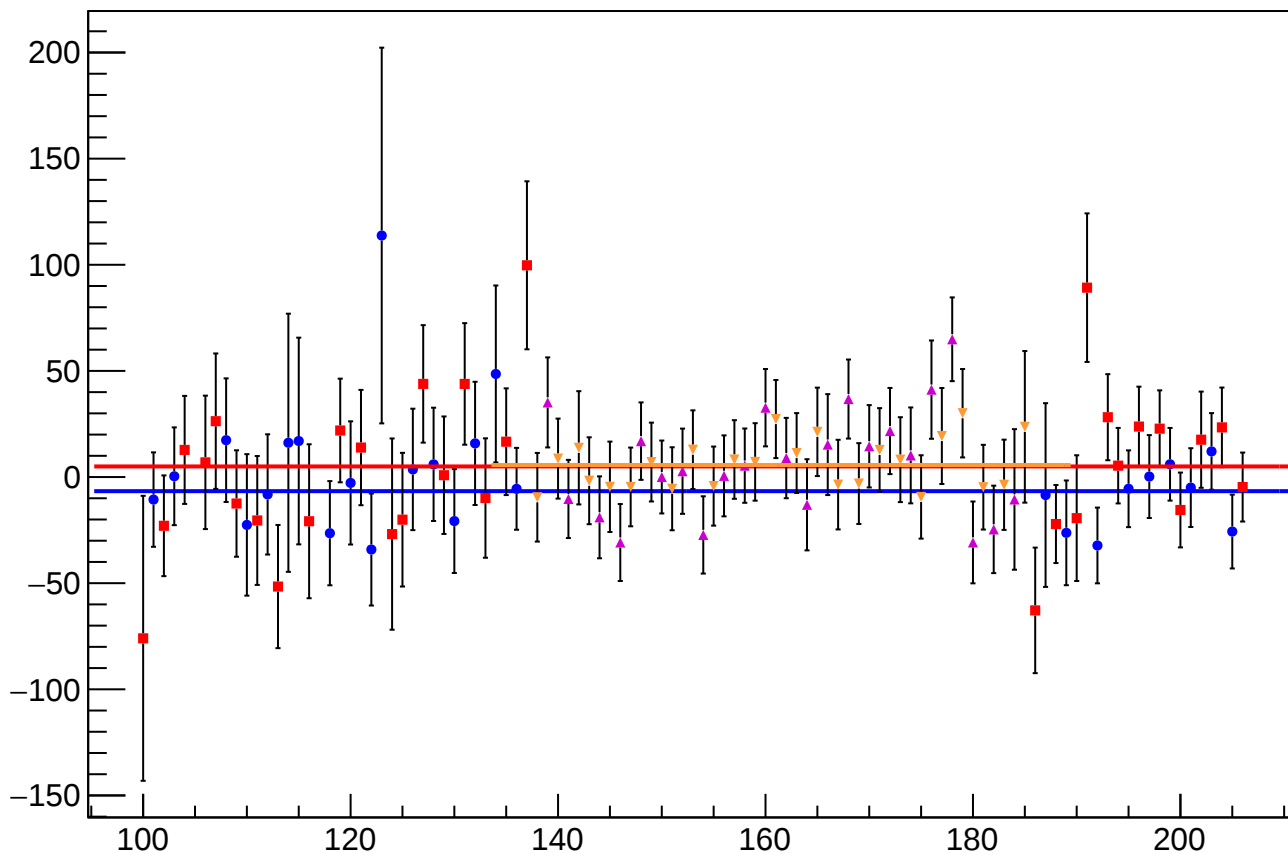
Right: 171.790 $\pm$ 0.024 χ^2 /NDF: 4897828.6/56

In: 176.552 $\pm$ 0.024 χ^2 /NDF:3695218.3/48

Out: 184.377 $\pm$ 0.024 χ^2 /NDF:4887861.6/55

All: 180.470 $\pm$ 0.017 χ^2 /NDF: 8637379.4/104

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -6.653 ± 4.726 χ^2/NDF : 13.7/25

Left Out: 5.680 ± 4.024 χ^2/NDF : 7.7/24

Right Out: 4.994 ± 4.412 χ^2/NDF : 40.8/30

Left In: 5.595 ± 4.121 χ^2/NDF : 36.4/22

Left: 5.639 ± 2.879 χ^2/NDF : 44.1/47

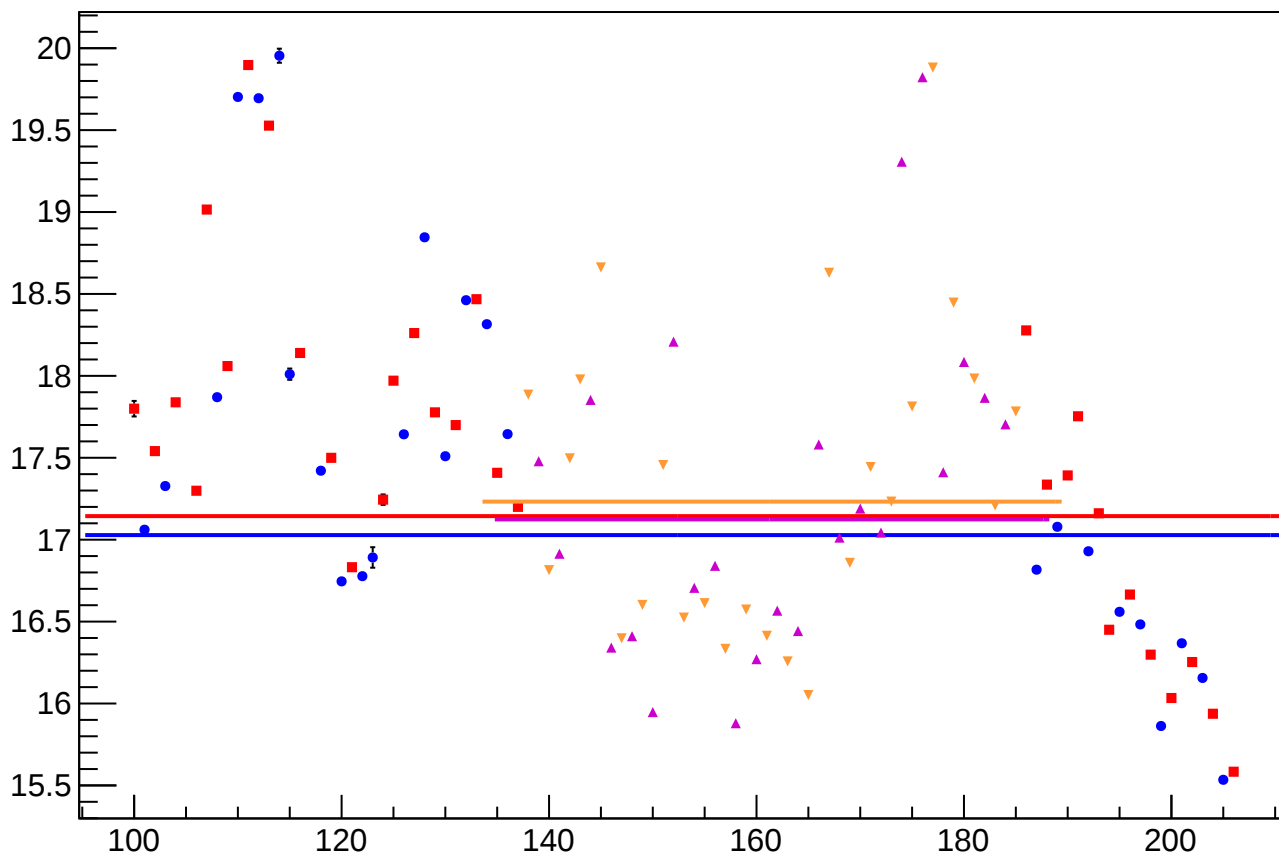
Right: -0.430 ± 3.225 χ^2/NDF : 57.8/56

In: 0.304 ± 3.106 χ^2/NDF : 53.9/48

Out: 5.369 ± 2.973 χ^2/NDF : 48.6/55

All: 2.947 ± 2.148 χ^2/NDF : 103.9/104

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 17.028 $\pm$ 0.003 χ^2 /NDF: 93007.2/25

Left Out: 17.232 $\pm$ 0.003 χ^2 /NDF:98701.0/24

Right Out: 17.144 $\pm$ 0.003 χ^2 /NDF: 105463.2/30

Left In: 17.124 $\pm$ 0.003 χ^2 /NDF:100747.0/22

Left: 17.179 $\pm$ 0.002 χ^2 /NDF: 200160.6/47

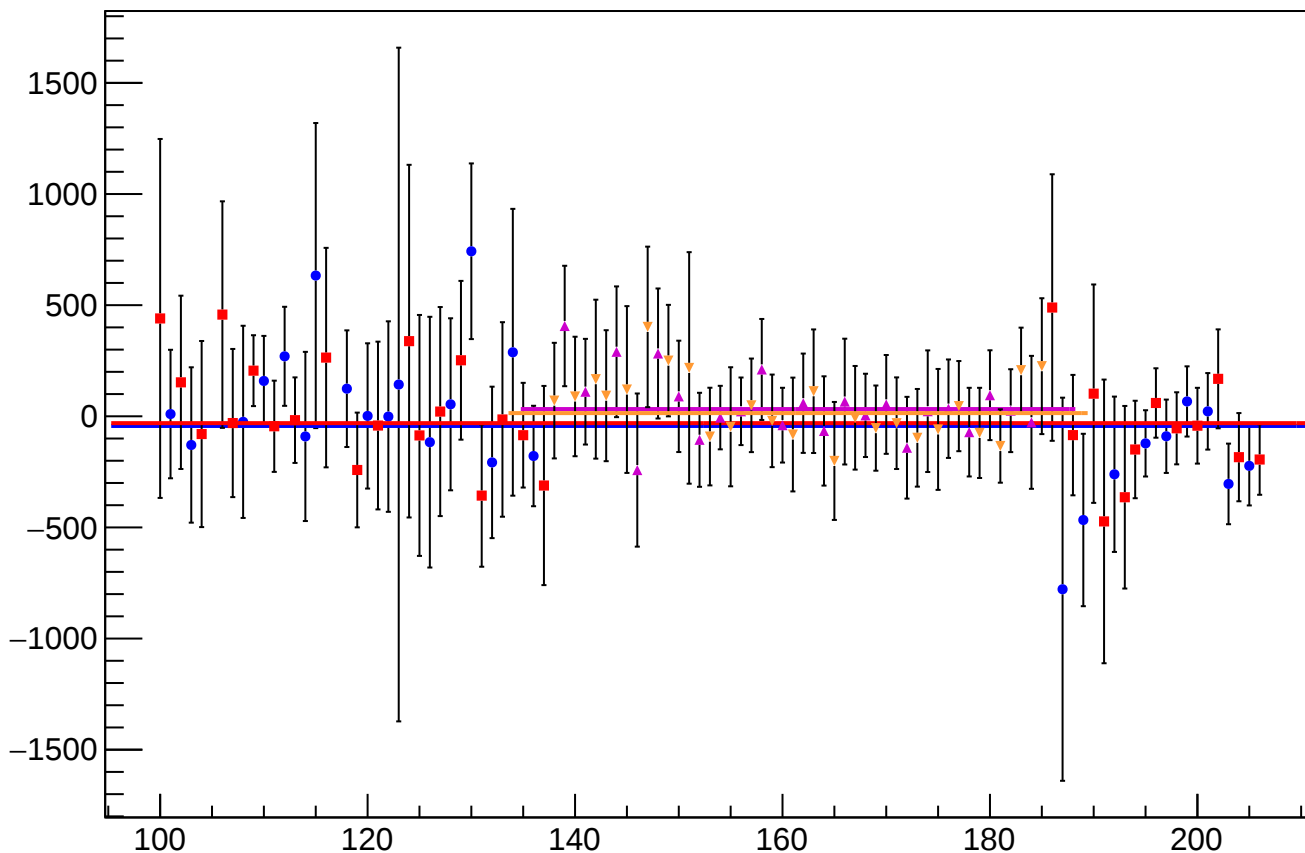
Right: 17.090 $\pm$ 0.002 χ^2 /NDF: 199111.8/56

In: 17.082 $\pm$ 0.002 χ^2 /NDF:194220.2/48

Out: 17.192 $\pm$ 0.002 χ^2 /NDF:204605.0/55

All: 17.140 $\pm$ 0.002 χ^2 /NDF: 400130.0/104

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -43.503 ± 50.685 χ^2/NDF : 15.8/25

Left Out: 14.362 ± 48.130 χ^2/NDF : 6.9/24

Right Out: -30.791 ± 47.313 χ^2/NDF : 12.2/30

Left In: 32.571 ± 45.248 χ^2/NDF : 6.7/22

Left: 24.028 ± 32.967 χ^2/NDF : 13.7/47

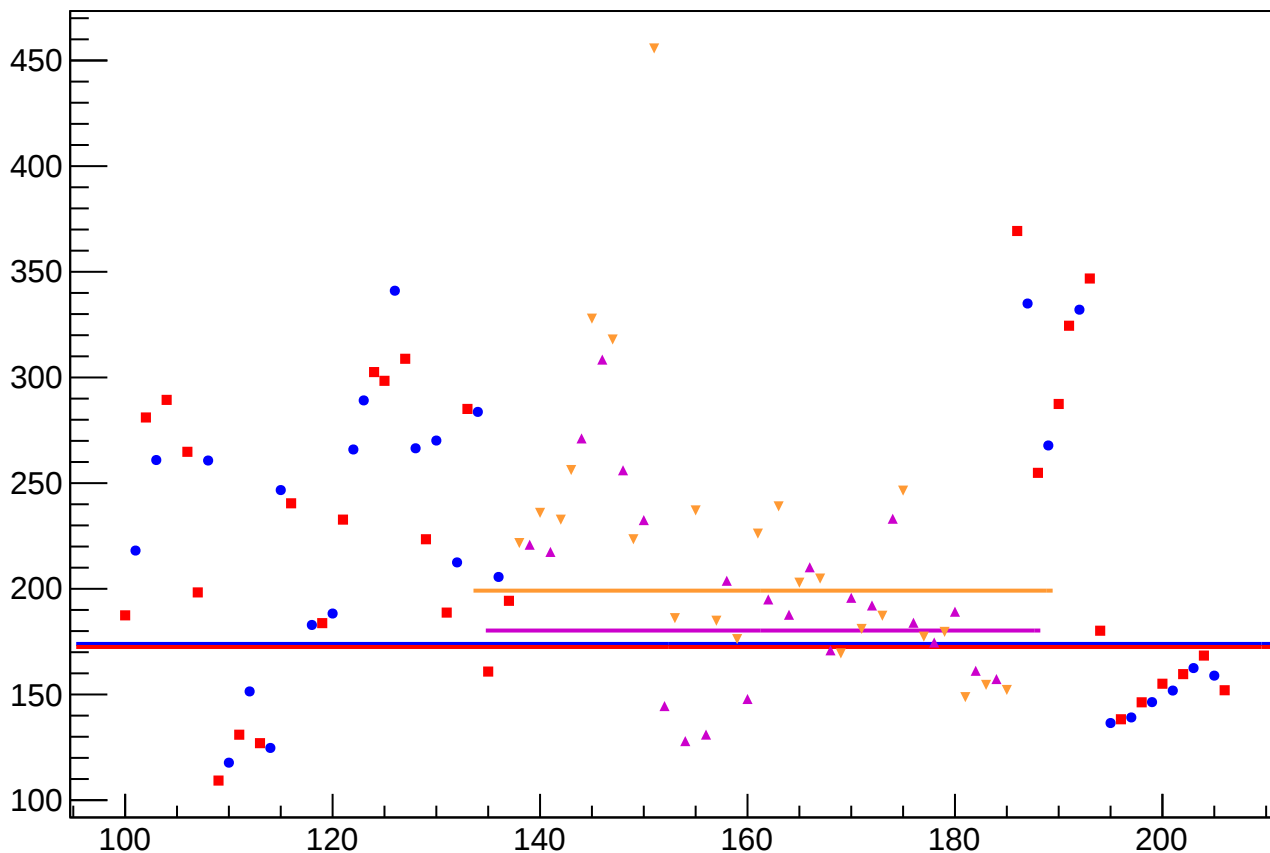
Right: -36.710 ± 34.586 χ^2/NDF : 28.0/56

In: -1.168 ± 33.754 χ^2/NDF : 23.7/48

Out: -8.600 ± 33.740 χ^2/NDF : 19.6/55

All: -4.886 ± 23.863 χ^2/NDF : 43.3/104

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 173.919 $\pm$ 0.036 χ^2 /NDF: 2050294.2/25

Left Out: 199.136 $\pm$ 0.034 χ^2 /NDF:1760298.1/24

Right Out: 172.480 $\pm$ 0.033 χ^2 /NDF: 2704343.8/30

Left In: 180.256 $\pm$ 0.032 χ^2 /NDF:1580553.5/22

Left: 189.114 $\pm$ 0.023 χ^2 /NDF: 3504211.1/47

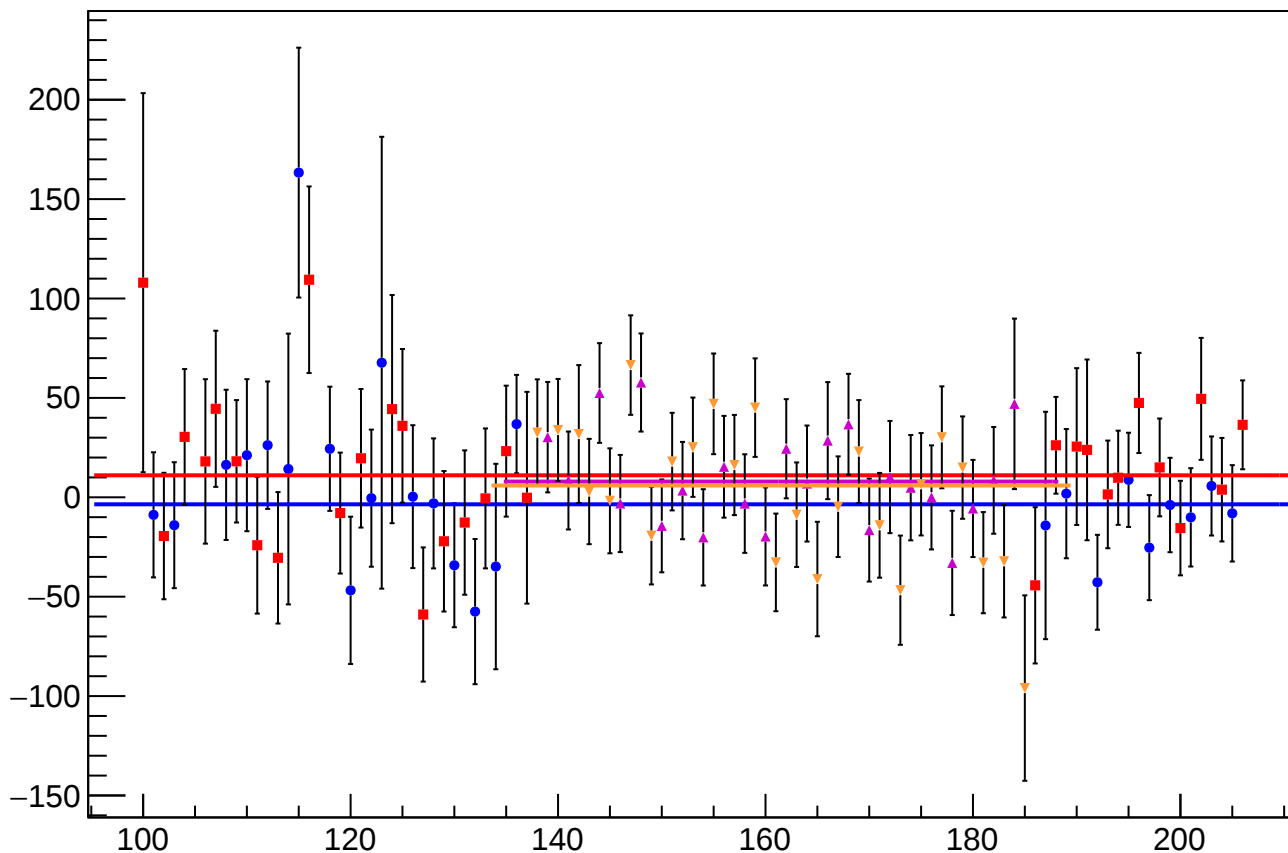
Right: 173.150 $\pm$ 0.024 χ^2 /NDF: 4755499.8/56

In: 177.446 $\pm$ 0.024 χ^2 /NDF:3648246.9/48

Out: 185.580 $\pm$ 0.024 χ^2 /NDF:4776624.0/55

All: 181.514 $\pm$ 0.017 χ^2 /NDF: 8482966.0/104

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -3.524 ± 6.209 χ^2/NDF : 21.5/25

Left Out: 5.937 ± 5.285 χ^2/NDF : 36.1/24

Right Out: 11.067 ± 5.774 χ^2/NDF : 26.2/30

Left In: 7.915 ± 5.422 χ^2/NDF : 18.7/22

Left: 6.901 ± 3.784 χ^2/NDF : 54.9/47

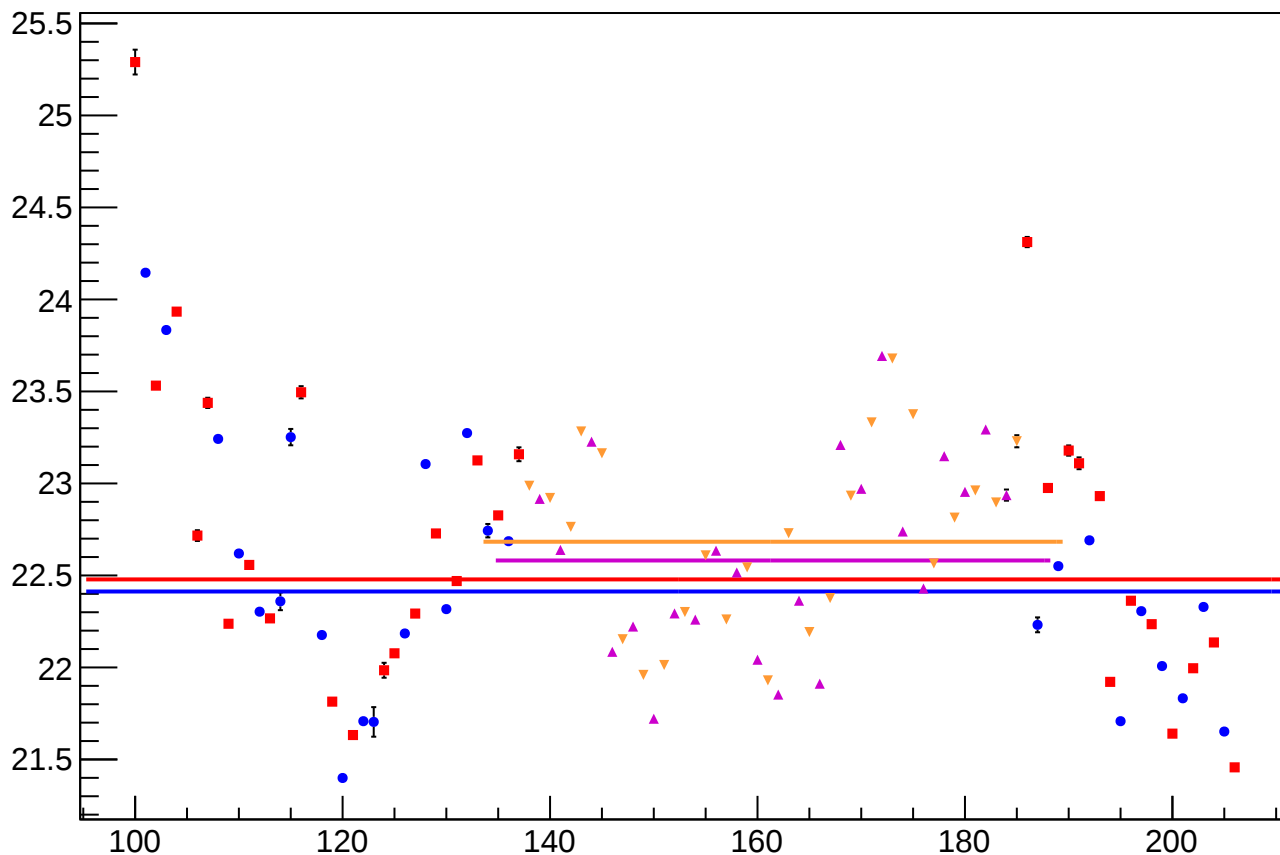
Right: 4.301 ± 4.228 χ^2/NDF : 50.7/56

In: 2.967 ± 4.084 χ^2/NDF : 42.1/48

Out: 8.276 ± 3.899 χ^2/NDF : 62.8/55

All: 5.744 ± 2.820 χ^2/NDF : 105.8/104

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.413+/-0.004 χ^2/NDF : 22255.8/25

Left Out: 22.683+/-0.004 χ^2/NDF :16320.2/24

Right Out: 22.478+/-0.004 χ^2/NDF : 29469.4/30

Left In: 22.581+/-0.004 χ^2/NDF :17904.5/22

Left: 22.634+/-0.003 χ^2/NDF : 34586.9/47

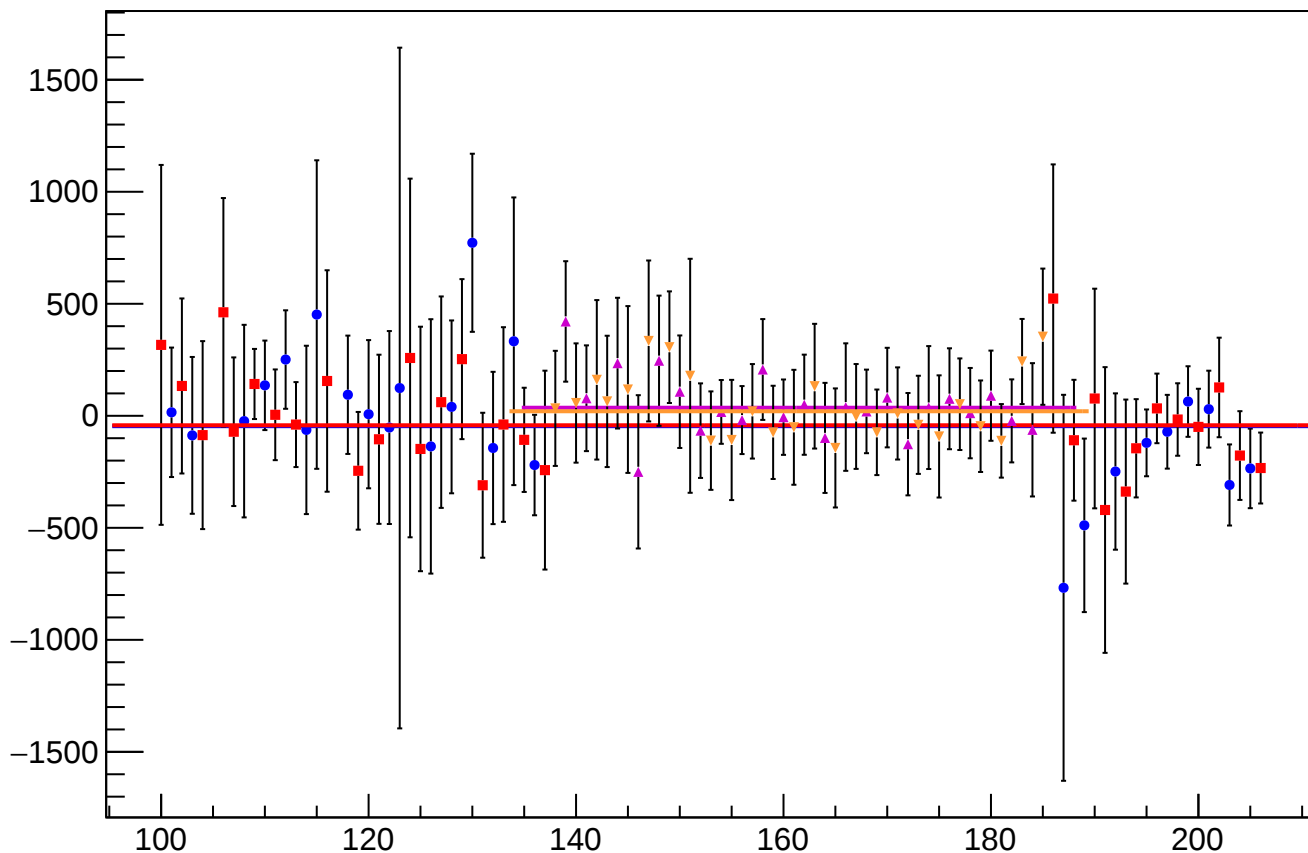
Right: 22.448+/-0.003 χ^2/NDF : 51845.4/56

In: 22.508+/-0.003 χ^2/NDF :40996.7/48

Out: 22.590+/-0.003 χ^2/NDF :47157.7/55

All: 22.551+/-0.002 χ^2/NDF : 88570.9/104

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -46.291 ± 50.540 $\chi^2/\text{NDF}: 15.4/25$

Left Out: 20.306 ± 48.049 $\chi^2/\text{NDF}: 7.7/24$

Right Out: -42.280 ± 47.100 $\chi^2/\text{NDF}: 10.4/30$

Left In: 35.996 ± 45.180 $\chi^2/\text{NDF}: 6.1/22$

Left: 28.633 ± 32.915 $\chi^2/\text{NDF}: 13.8/47$

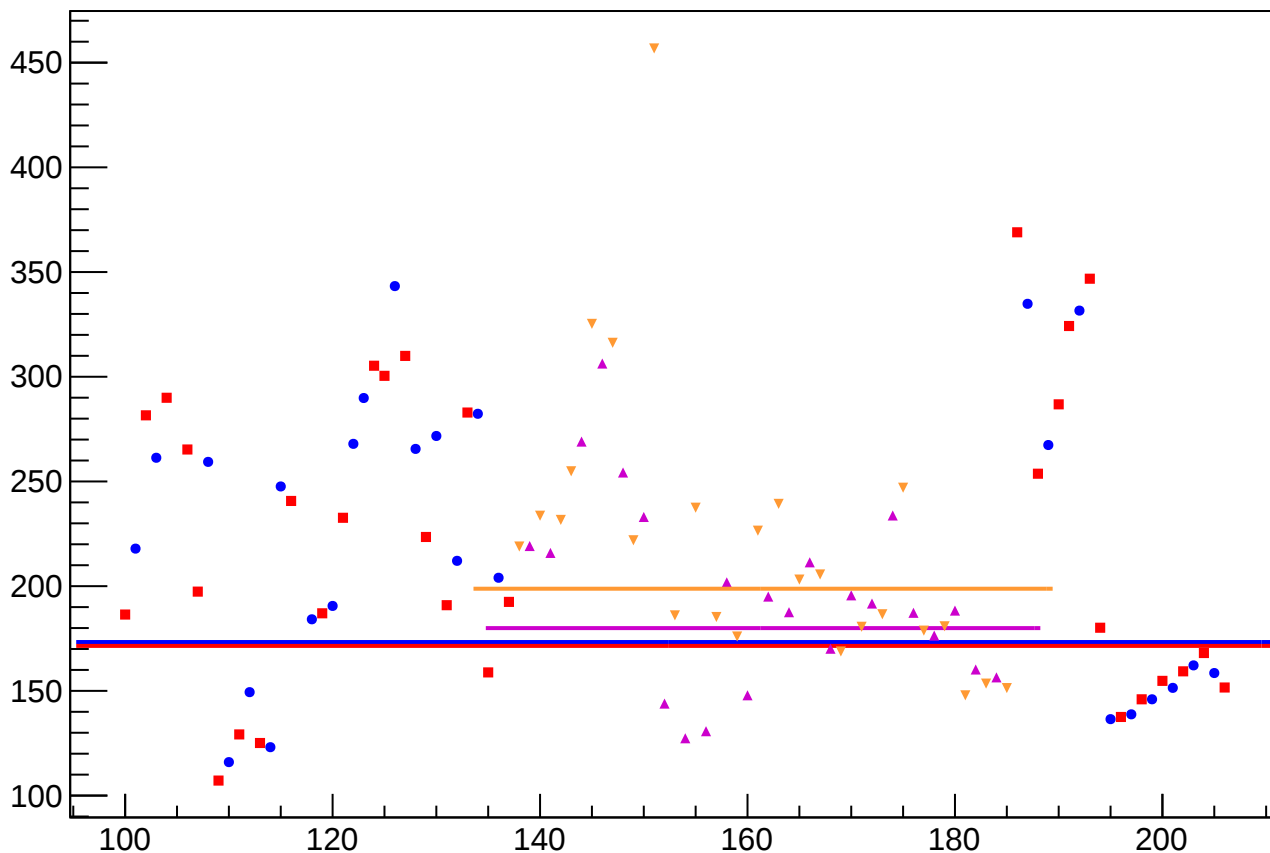
Right: -44.144 ± 34.456 $\chi^2/\text{NDF}: 25.8/56$

In: -0.554 ± 33.683 $\chi^2/\text{NDF}: 23.0/48$

Out: -11.611 ± 33.635 $\chi^2/\text{NDF}: 18.9/55$

All: -6.091 ± 23.801 $\chi^2/\text{NDF}: 42.0/104$

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 173.325 $\pm$ 0.036 χ^2 /NDF: 2080245.0/25

Left Out: 198.784 $\pm$ 0.034 χ^2 /NDF:1758481.8/24

Right Out: 171.475 $\pm$ 0.033 χ^2 /NDF: 2772812.6/30

Left In: 179.972 $\pm$ 0.032 χ^2 /NDF:1575888.3/22

Left: 188.800 $\pm$ 0.023 χ^2 /NDF: 3497081.8/47

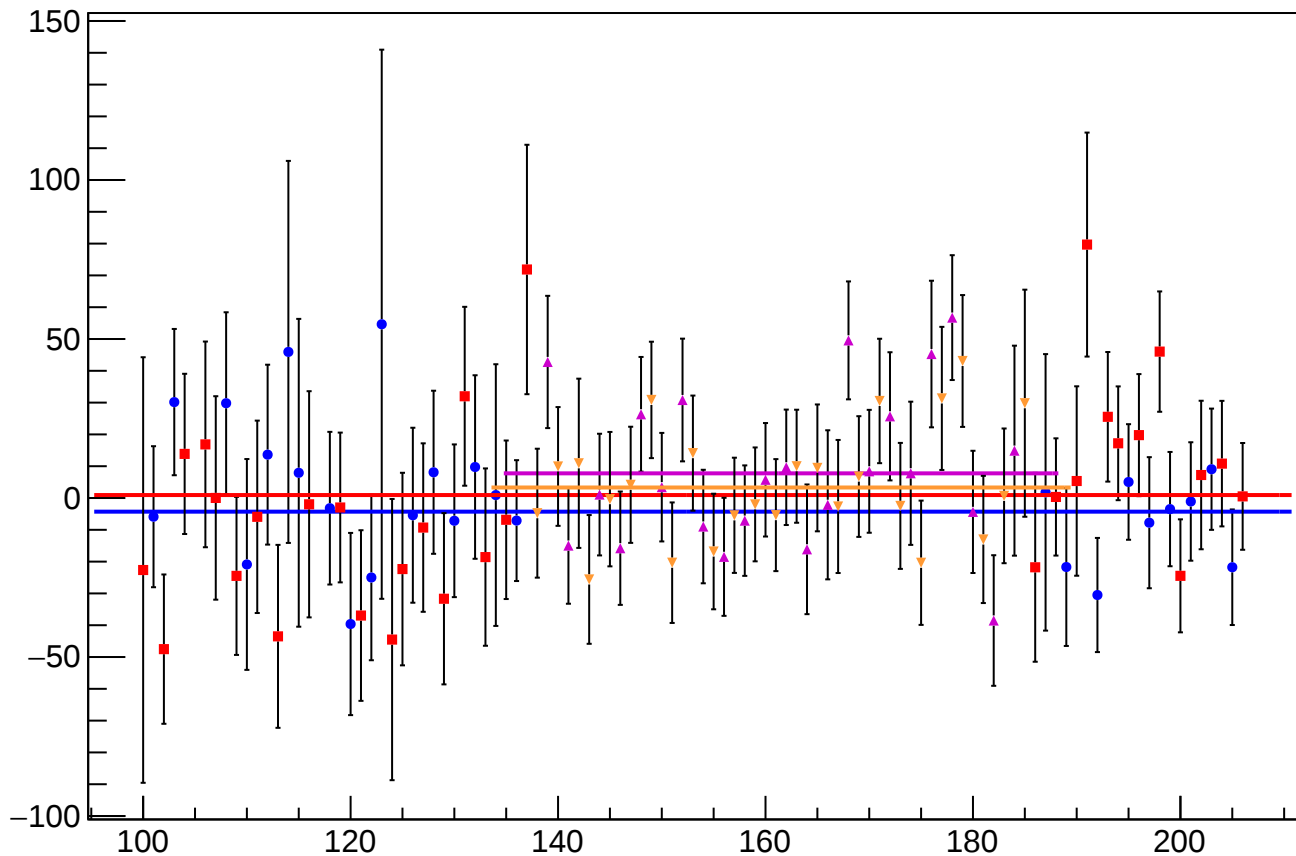
Right: 172.335 $\pm$ 0.024 χ^2 /NDF: 4854492.7/56

In: 177.020 $\pm$ 0.024 χ^2 /NDF:3675361.6/48

Out: 184.857 $\pm$ 0.024 χ^2 /NDF:4860782.0/55

All: 180.944 $\pm$ 0.017 χ^2 /NDF: 8590359.4/104

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -4.291 ± 4.761 χ^2/NDF : 12.6/25

Left Out: 3.307 ± 3.954 χ^2/NDF : 18.7/24

Right Out: 0.933 ± 4.435 χ^2/NDF : 35.7/30

Left In: 7.756 ± 4.061 χ^2/NDF : 34.3/22

Left: 5.472 ± 2.833 χ^2/NDF : 53.6/47

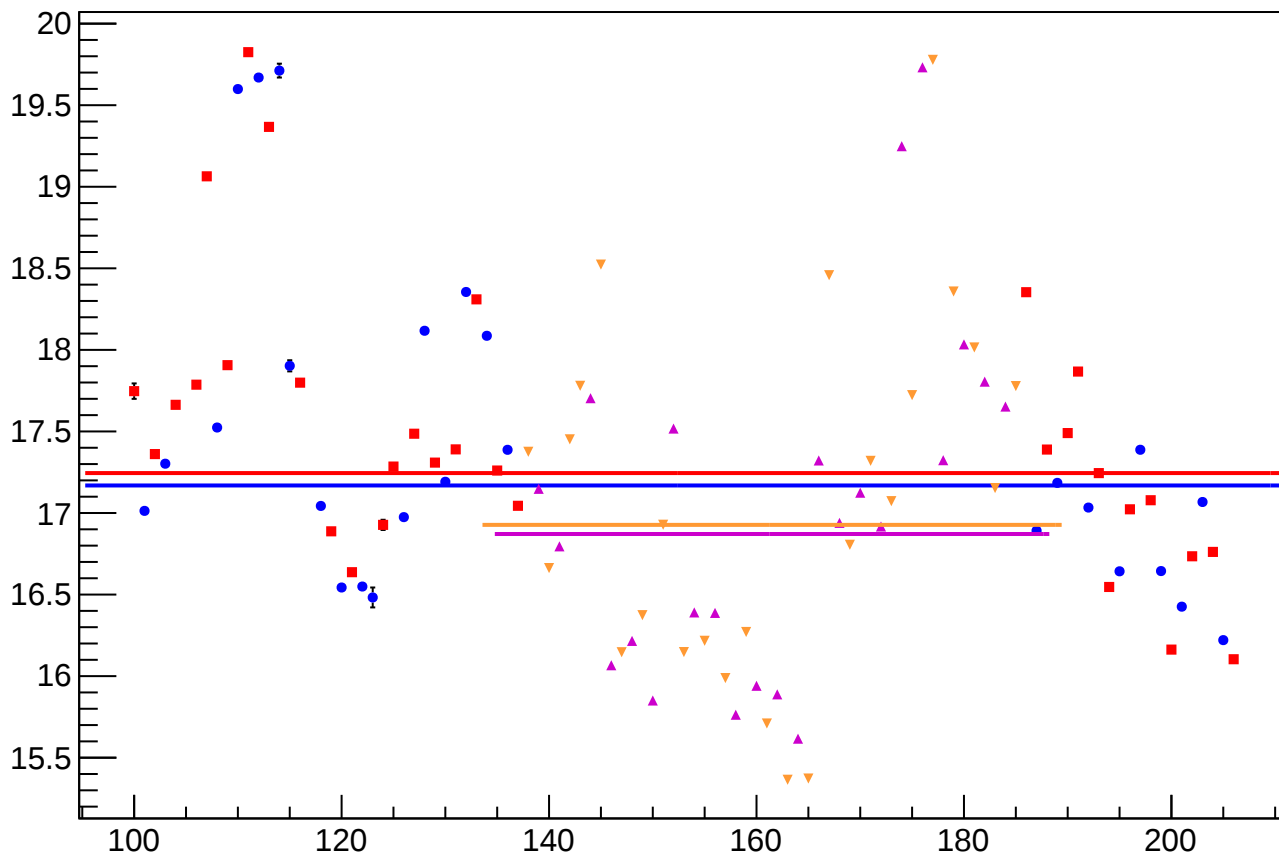
Right: -1.494 ± 3.245 χ^2/NDF : 48.9/56

In: 2.683 ± 3.090 χ^2/NDF : 50.6/48

Out: 2.256 ± 2.951 χ^2/NDF : 54.5/55

All: 2.460 ± 2.134 χ^2/NDF : 105.1/104

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 17.169 $\pm$ 0.003 χ^2 /NDF: 53136.9/25

Left Out: 16.927 $\pm$ 0.003 χ^2 /NDF:138533.2/24

Right Out: 17.245 $\pm$ 0.003 χ^2 /NDF: 65835.2/30

Left In: 16.871 $\pm$ 0.003 χ^2 /NDF:117993.8/22

Left: 16.900 $\pm$ 0.002 χ^2 /NDF: 256722.4/47

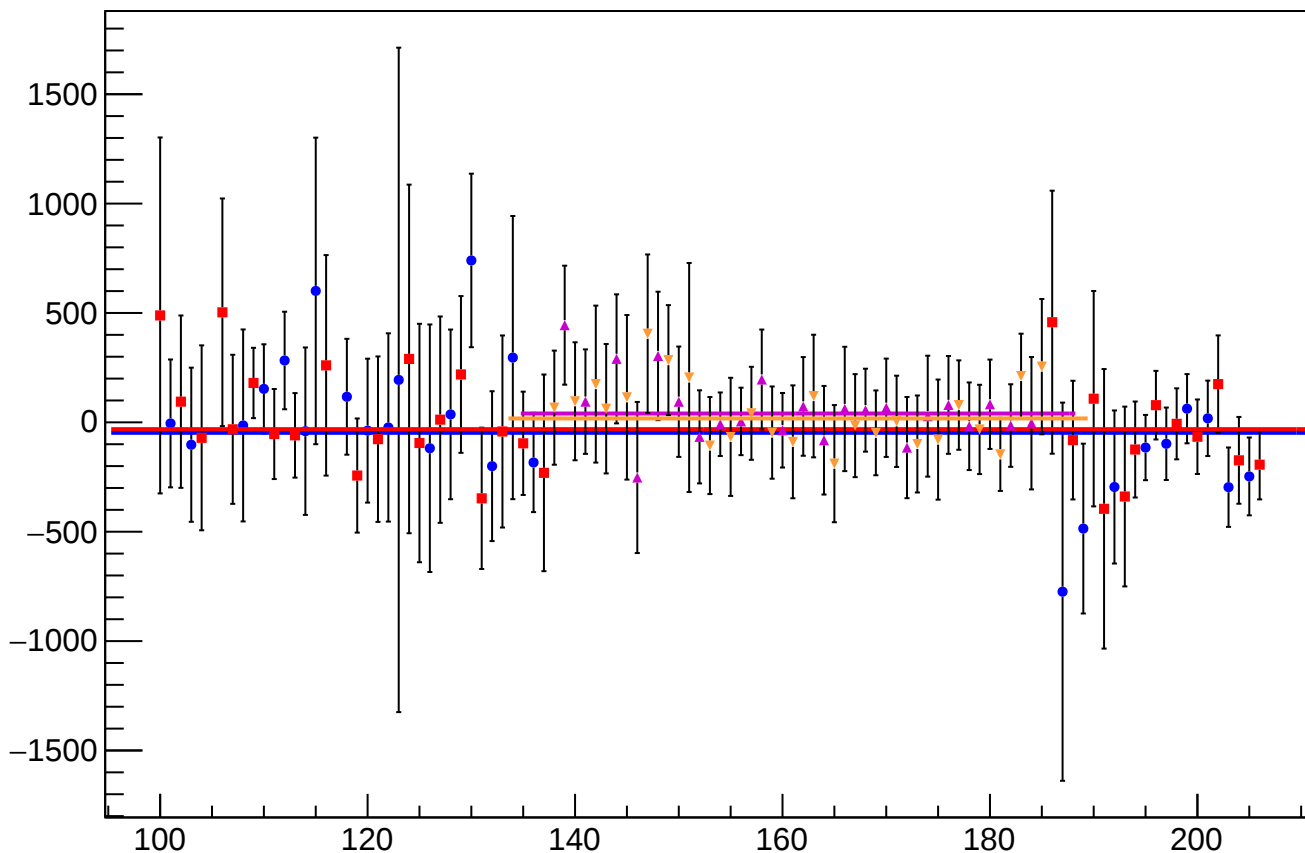
Right: 17.210 $\pm$ 0.002 χ^2 /NDF: 119245.1/56

In: 16.997 $\pm$ 0.002 χ^2 /NDF:175652.0/48

Out: 17.068 $\pm$ 0.002 χ^2 /NDF:210081.4/55

All: 17.034 $\pm$ 0.002 χ^2 /NDF: 386290.8/104

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -47.773 ± 50.838 $\chi^2/\text{NDF}: 15.9/25$

Left Out: 17.828 ± 48.547 $\chi^2/\text{NDF}: 7.5/24$

Right Out: -31.097 ± 47.479 $\chi^2/\text{NDF}: 11.1/30$

Left In: 40.355 ± 45.689 $\chi^2/\text{NDF}: 6.6/22$

Left: 29.774 ± 33.271 $\chi^2/\text{NDF}: 14.2/47$

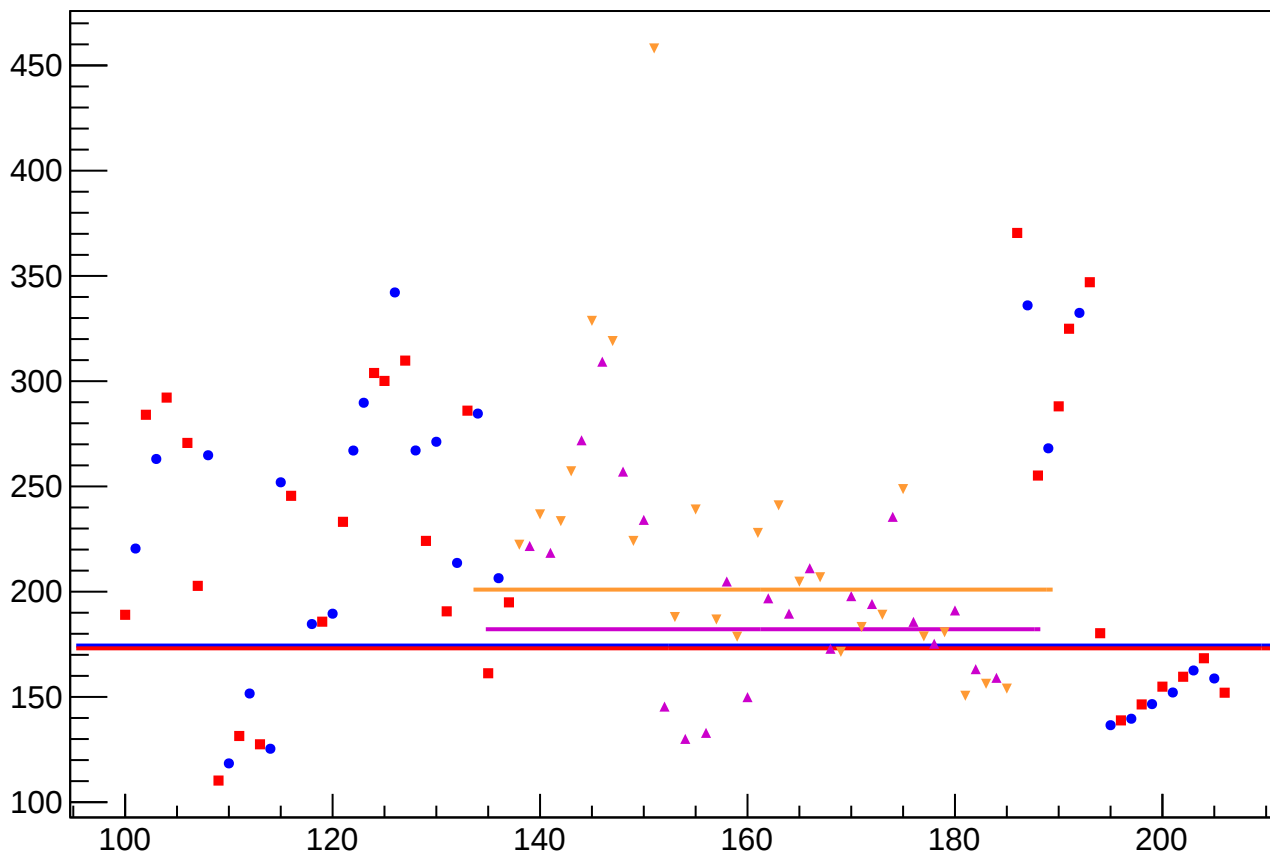
Right: -38.866 ± 34.700 $\chi^2/\text{NDF}: 27.0/56$

In: 0.979 ± 33.982 $\chi^2/\text{NDF}: 24.2/48$

Out: -7.179 ± 33.944 $\chi^2/\text{NDF}: 19.0/55$

All: -3.104 ± 24.015 $\chi^2/\text{NDF}: 43.2/104$

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 174.404 $\pm$ 0.036 χ^2 /NDF: 2065400.2/25

Left Out: 200.985 $\pm$ 0.034 χ^2 /NDF:1727291.4/24

Right Out: 173.081 $\pm$ 0.034 χ^2 /NDF: 2715103.5/30

Left In: 182.158 $\pm$ 0.032 χ^2 /NDF:1535922.8/22

Left: 191.001 $\pm$ 0.024 χ^2 /NDF: 3422724.8/47

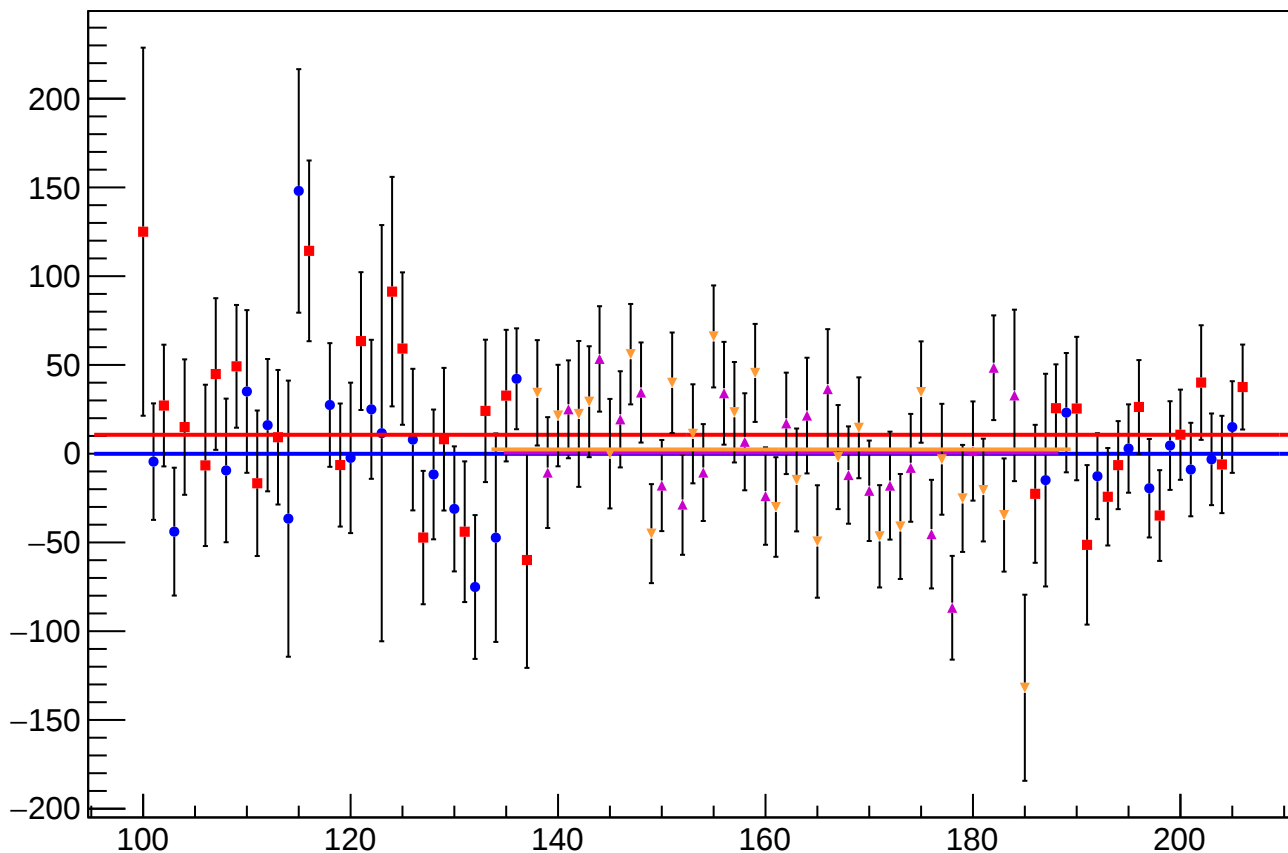
Right: 173.698 $\pm$ 0.025 χ^2 /NDF: 4781227.7/56

In: 178.694 $\pm$ 0.024 χ^2 /NDF:3627059.8/48

Out: 186.723 $\pm$ 0.024 χ^2 /NDF:4780124.4/55

All: 182.713 $\pm$ 0.017 χ^2 /NDF: 8463069.7/104

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -0.064 ± 6.720 χ^2/NDF : 17.3/25

Left Out: 2.390 ± 5.980 χ^2/NDF : 39.1/24

Right Out: 10.654 ± 6.208 χ^2/NDF : 30.3/30

Left In: 0.641 ± 6.091 χ^2/NDF : 27.3/22

Left: 1.531 ± 4.267 χ^2/NDF : 66.5/47

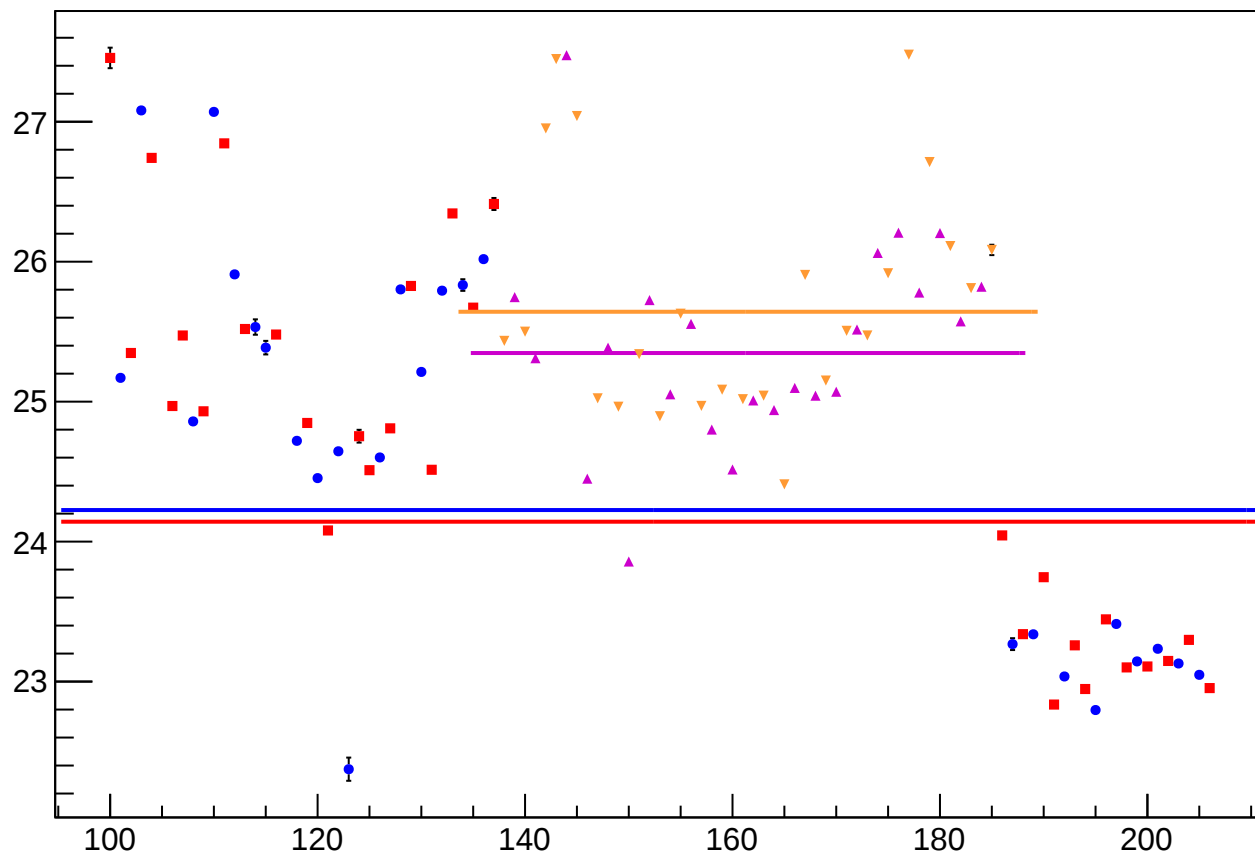
Right: 5.719 ± 4.560 χ^2/NDF : 49.0/56

In: 0.323 ± 4.513 χ^2/NDF : 44.6/48

Out: 6.367 ± 4.307 χ^2/NDF : 70.3/55

All: 3.486 ± 3.116 χ^2/NDF : 115.9/104

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 24.226 $\pm$ 0.005 χ^2 /NDF: 76154.5/25

Left Out: 25.642 $\pm$ 0.004 χ^2 /NDF:34802.2/24

Right Out: 24.142 $\pm$ 0.004 χ^2 /NDF: 75355.6/30

Left In: 25.347 $\pm$ 0.004 χ^2 /NDF:29389.5/22

Left: 25.498 $\pm$ 0.003 χ^2 /NDF: 66578.5/47

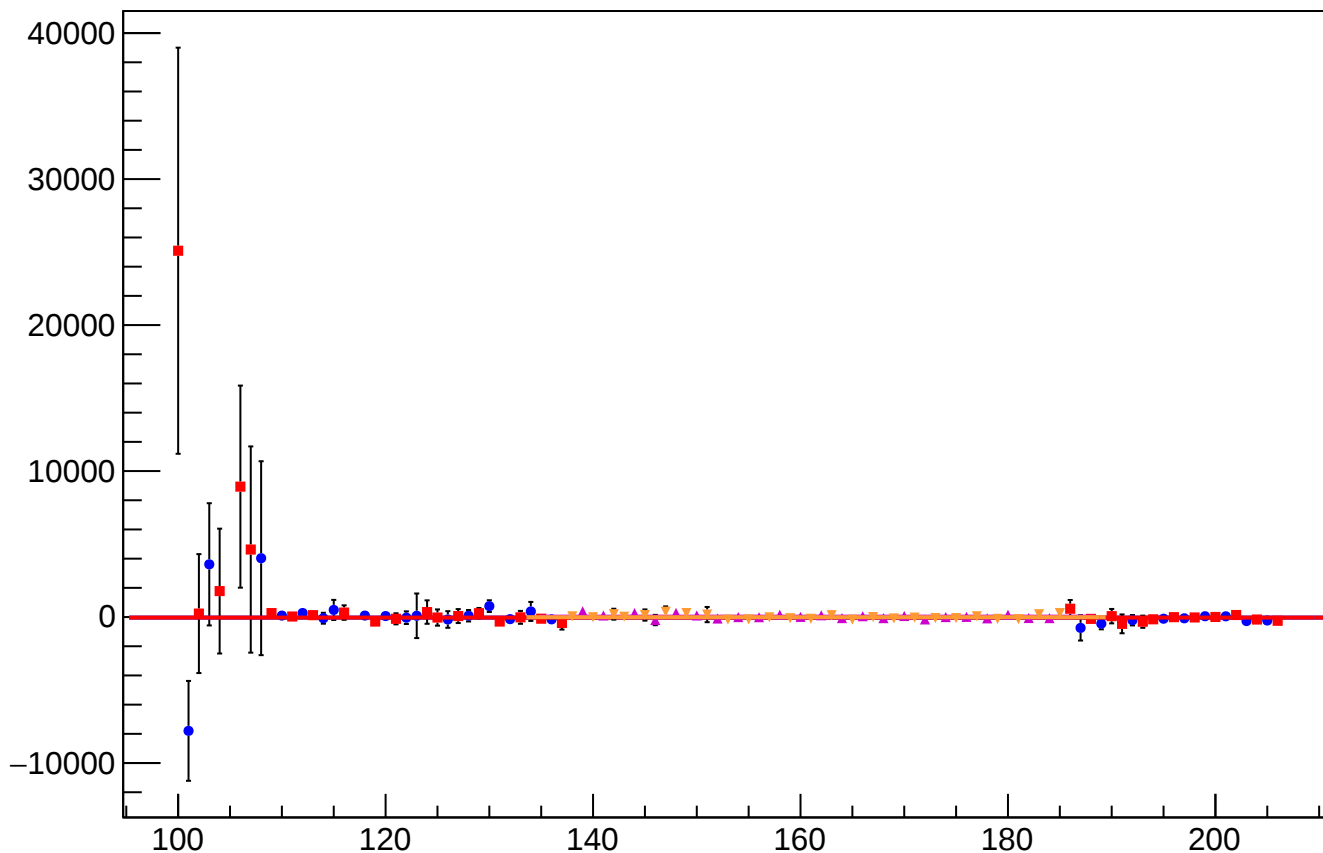
Right: 24.181 $\pm$ 0.003 χ^2 /NDF: 151676.1/56

In: 24.841 $\pm$ 0.003 χ^2 /NDF:136143.0/48

Out: 24.920 $\pm$ 0.003 χ^2 /NDF:170730.2/55

All: 24.883 $\pm$ 0.002 χ^2 /NDF: 307193.1/104

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -37.441 ± 53.513 χ^2/NDF : 20.3/25

Left Out: -11.432 ± 48.263 χ^2/NDF : 8.0/24

Right Out: -38.252 ± 50.781 χ^2/NDF : 17.7/30

Left In: 27.098 ± 45.999 χ^2/NDF : 7.2/22

Left: 8.758 ± 33.298 χ^2/NDF : 15.5/47

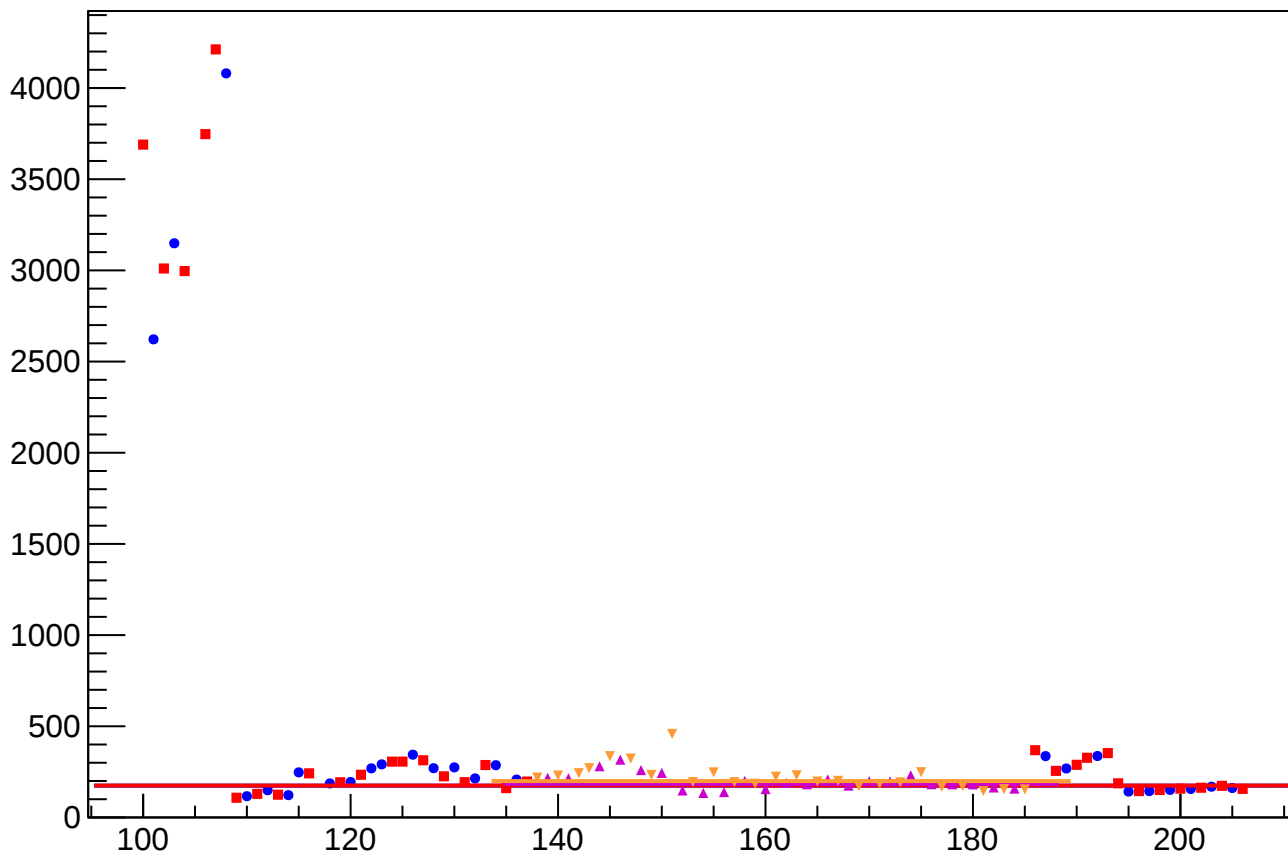
Right: -37.868 ± 36.836 χ^2/NDF : 38.0/56

In: -0.326 ± 34.883 χ^2/NDF : 28.3/48

Out: -24.161 ± 34.983 χ^2/NDF : 25.8/55

All: -12.209 ± 24.701 χ^2/NDF : 54.4/104

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 174.263+/-0.038 χ^2/NDF : 4478850.4/25

Left Out: 199.438+/-0.034 χ^2/NDF : 1877848.7/24

Right Out: 174.783+/-0.036 χ^2/NDF : 5334737.4/30

Left In: 183.805+/-0.033 χ^2/NDF : 1412869.6/22

Left: 191.246+/-0.024 χ^2/NDF : 3400676.1/47

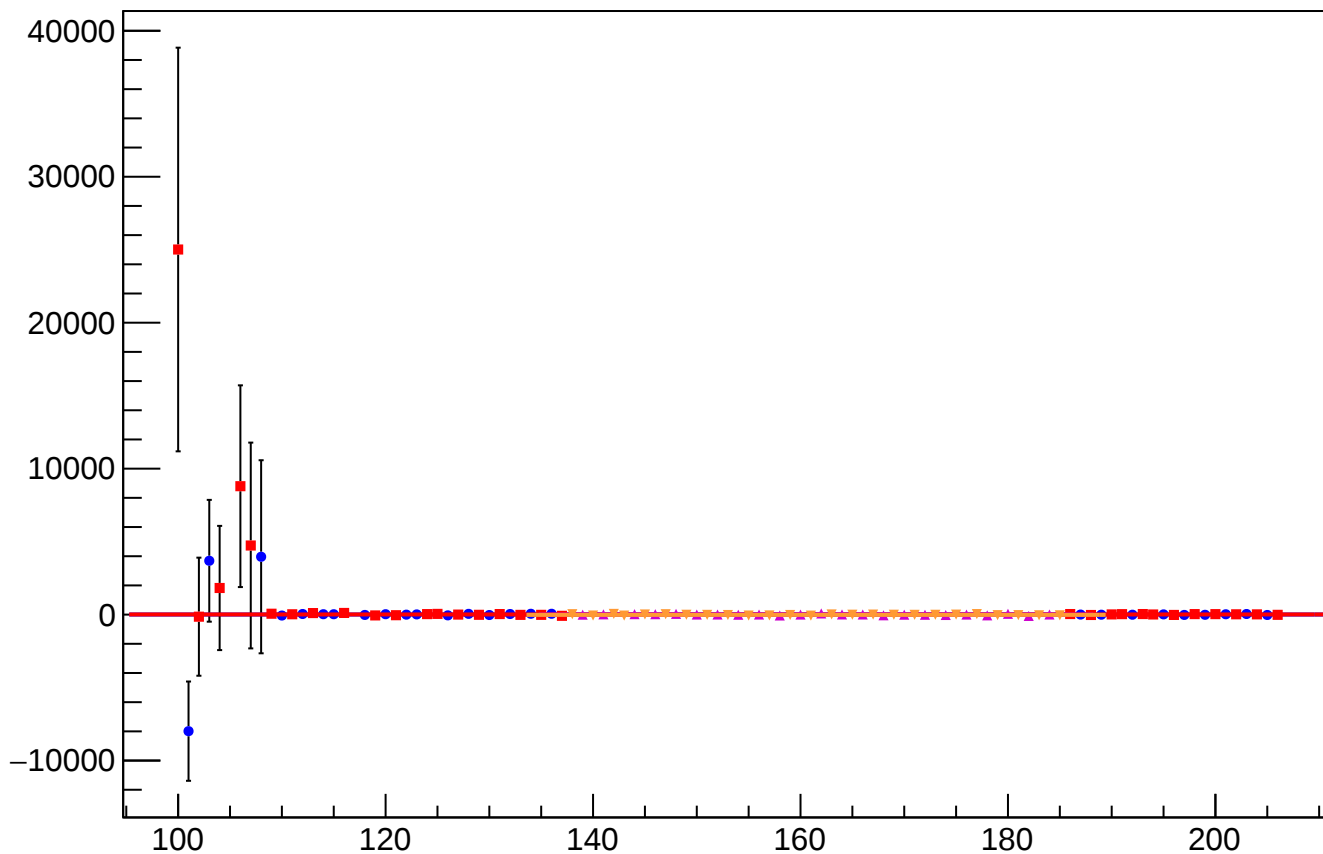
Right: 174.537+/-0.026 χ^2/NDF : 9813686.9/56

In: 179.751+/-0.025 χ^2/NDF : 5928288.2/48

Out: 187.737+/-0.025 χ^2/NDF : 7460298.6/55

All: 183.732+/-0.017 χ^2/NDF : 13440852.0/100

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 5.438+/-8.118 χ^2/NDF : 22.7/25

Left Out: -18.118+/-6.704 χ^2/NDF :21.7/24

Right Out: 11.271+/-7.624 χ^2/NDF : 29.6/30

Left In: 1.267+/-6.908 χ^2/NDF :32.0/22

Left: -8.716+/-4.811 χ^2/NDF : 57.8/47

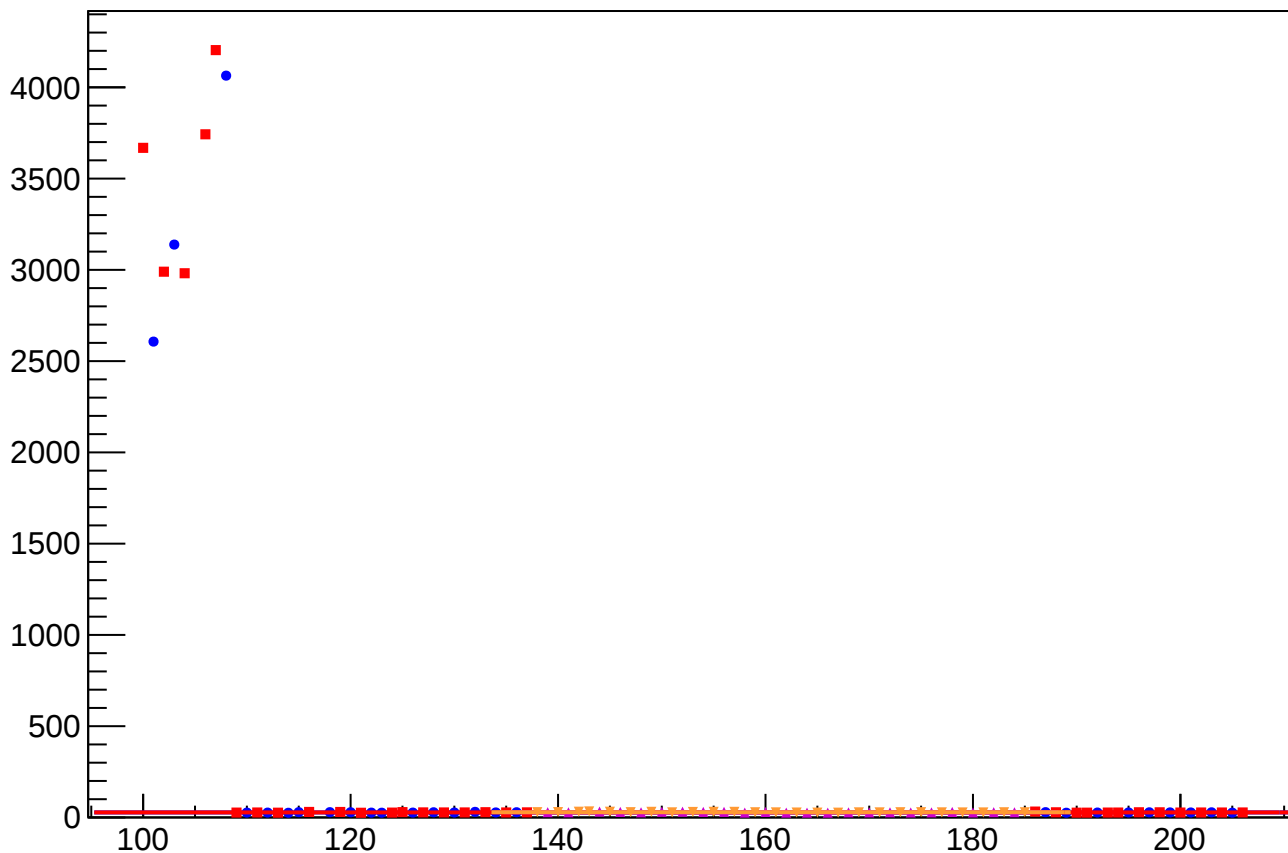
Right: 8.537+/-5.557 χ^2/NDF : 52.6/56

In: 3.019+/-5.261 χ^2/NDF :54.9/48

Out: -5.303+/-5.034 χ^2/NDF :59.8/55

All: -1.325+/-3.637 χ^2/NDF : 116.0/104

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 27.540 $\pm$ 0.006 χ^2 /NDF: 3039599.2/25

Left Out: 28.694 $\pm$ 0.005 χ^2 /NDF: 110466.9/24

Right Out: 27.594 $\pm$ 0.005 χ^2 /NDF: 3503272.8/30

Left In: 28.677 $\pm$ 0.005 χ^2 /NDF: 123814.4/22

Left: 28.685 $\pm$ 0.003 χ^2 /NDF: 234287.5/47

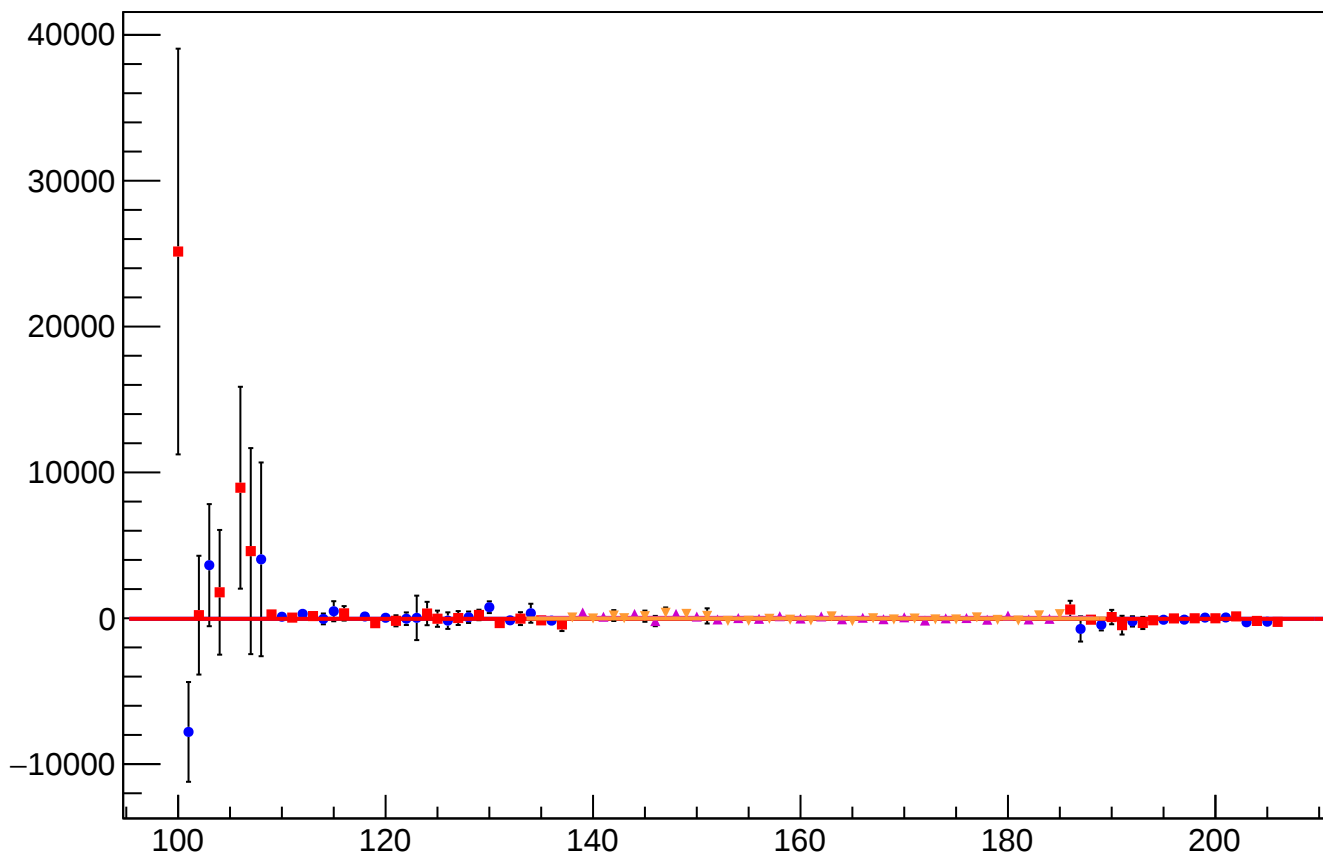
Right: 27.569 $\pm$ 0.004 χ^2 /NDF: 6542918.0/56

In: 28.199 $\pm$ 0.004 χ^2 /NDF: 3186150.3/48

Out: 28.214 $\pm$ 0.004 χ^2 /NDF: 3637226.4/55

All: 28.207 $\pm$ 0.003 χ^2 /NDF: 6823384.7/104

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -35.978 ± 53.346 χ^2/NDF : 20.6/25

Left Out: -13.878 ± 48.155 χ^2/NDF : 8.8/24

Right Out: -39.604 ± 50.638 χ^2/NDF : 18.3/30

Left In: 27.286 ± 45.907 χ^2/NDF : 7.5/22

Left: 7.688 ± 33.228 χ^2/NDF : 16.7/47

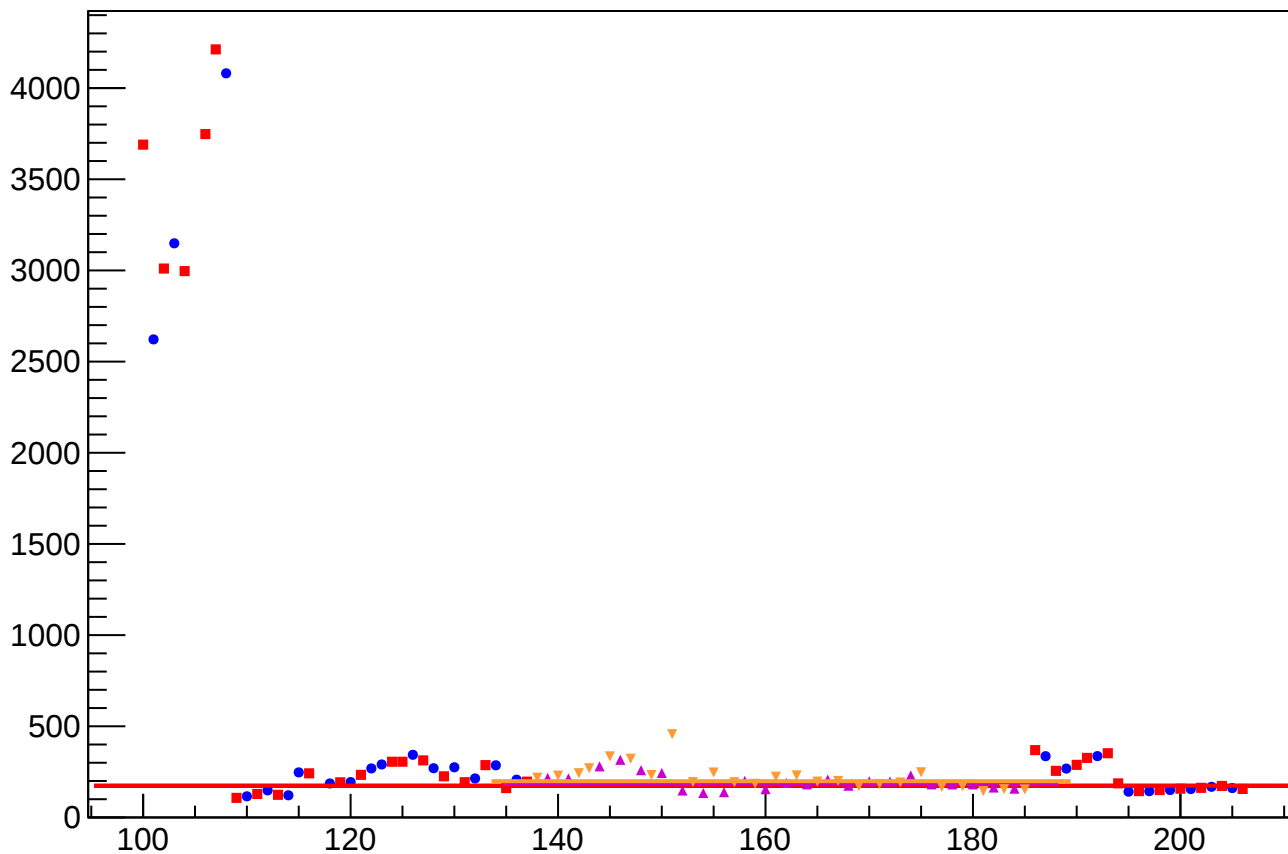
Right: -37.886 ± 36.727 χ^2/NDF : 38.8/56

In: 0.369 ± 34.797 χ^2/NDF : 28.8/48

Out: -26.095 ± 34.896 χ^2/NDF : 27.2/55

All: -12.825 ± 24.640 χ^2/NDF : 56.4/104

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 173.669 $\pm$ 0.038 χ^2 /NDF: 4492020.4/25

Left Out: 198.997 $\pm$ 0.034 χ^2 /NDF: 1877636.0/24

Right Out: 174.231 $\pm$ 0.036 χ^2 /NDF: 5351913.5/30

Left In: 183.442 $\pm$ 0.032 χ^2 /NDF: 1412341.8/22

Left: 190.847 $\pm$ 0.023 χ^2 /NDF: 3399302.2/47

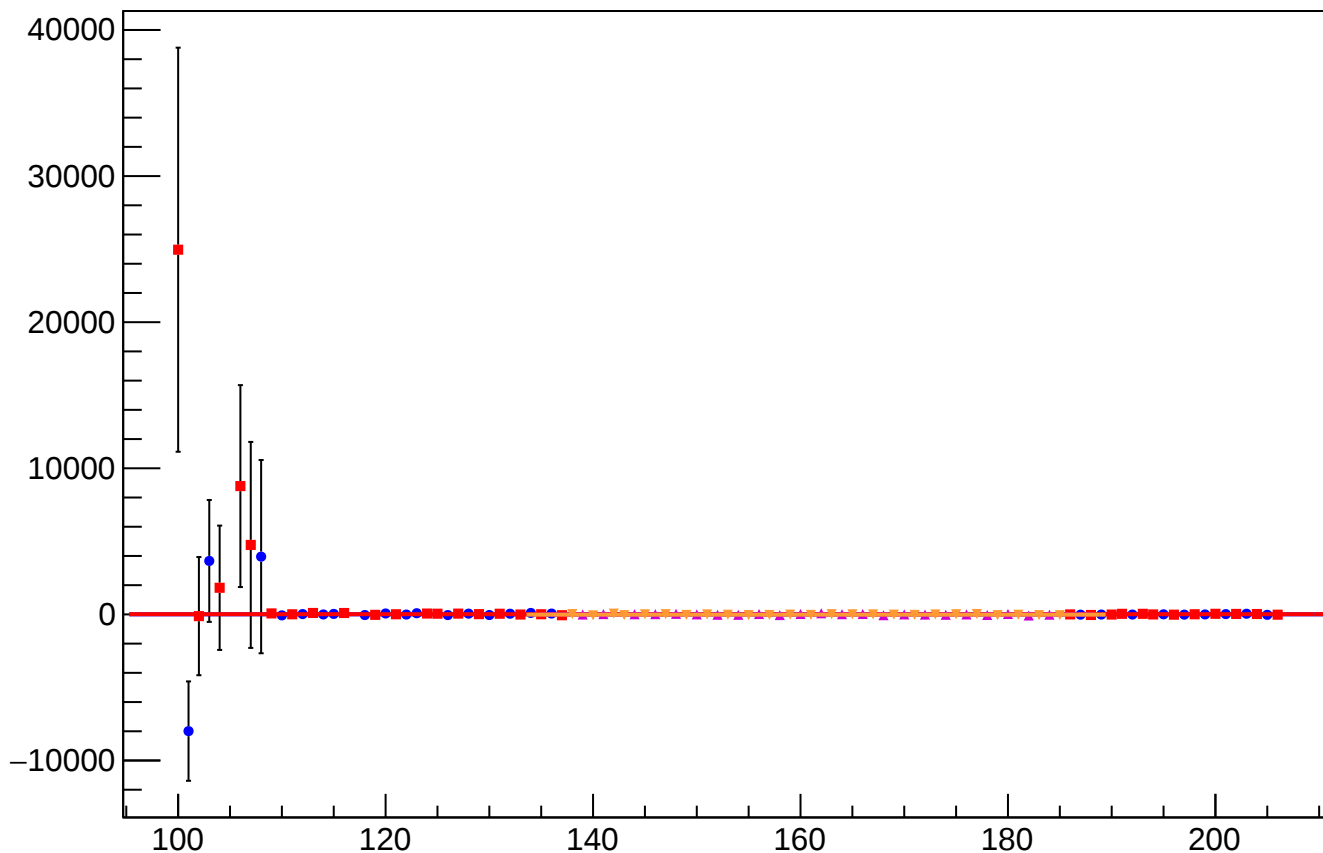
Right: 173.965 $\pm$ 0.026 χ^2 /NDF: 9844050.7/56

In: 179.284 $\pm$ 0.025 χ^2 /NDF: 5942924.3/48

Out: 187.236 $\pm$ 0.025 χ^2 /NDF: 7480754.1/55

All: 183.248 $\pm$ 0.017 χ^2 /NDF: 13475756.0/10

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 3.835 ± 8.100 $\chi^2/\text{NDF}: 26.9/25$

Left Out: -15.829 ± 6.733 $\chi^2/\text{NDF}: 16.5/24$

Right Out: 14.372 ± 7.614 $\chi^2/\text{NDF}: 26.1/30$

Left In: -0.498 ± 6.937 $\chi^2/\text{NDF}: 26.1/22$

Left: -8.392 ± 4.831 $\chi^2/\text{NDF}: 45.1/47$

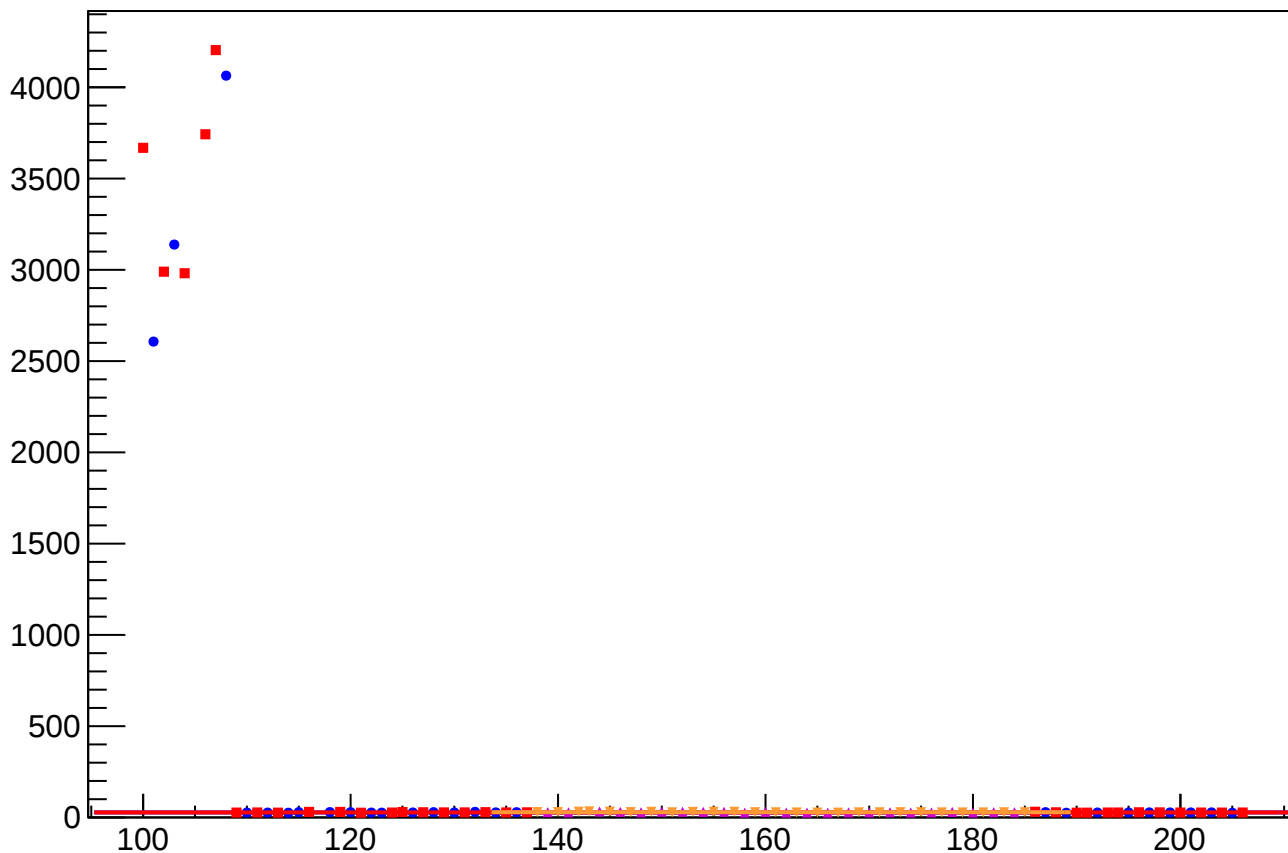
Right: 9.429 ± 5.548 $\chi^2/\text{NDF}: 53.9/56$

In: 1.335 ± 5.269 $\chi^2/\text{NDF}: 53.2/48$

Out: -2.576 ± 5.044 $\chi^2/\text{NDF}: 51.5/55$

All: -0.706 ± 3.644 $\chi^2/\text{NDF}: 104.9/104$

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 27.473+/-0.006 χ^2 /NDF: 3044832.0/25

Left Out: 28.814+/-0.005 χ^2 /NDF:122153.6/24

Right Out: 27.558+/-0.005 χ^2 /NDF: 3503535.0/30

Left In: 28.797+/-0.005 χ^2 /NDF:128279.2/22

Left: 28.806+/-0.003 χ^2 /NDF: 250439.0/47

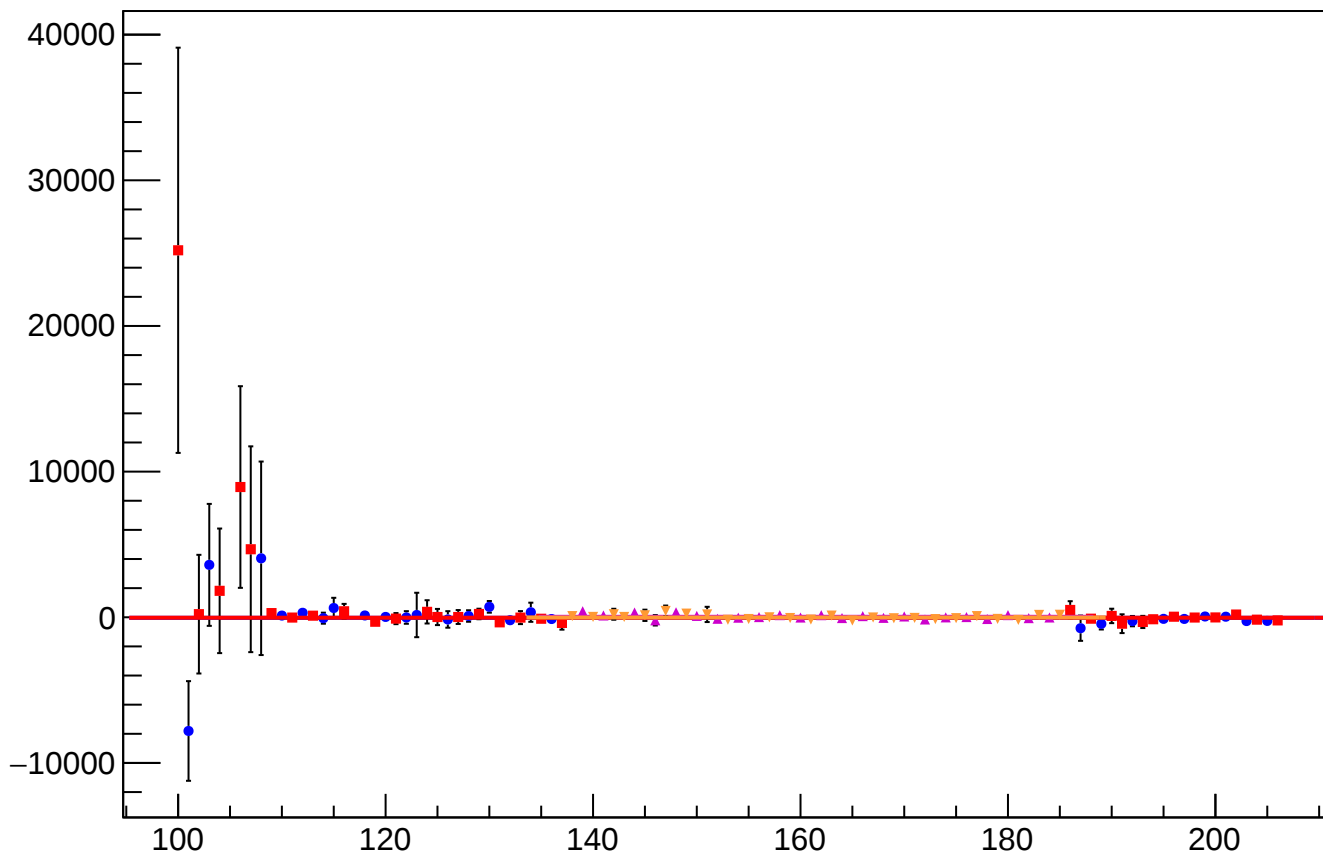
Right: 27.518+/-0.004 χ^2 /NDF: 6548482.1/56

In: 28.237+/-0.004 χ^2 /NDF:3203935.3/48

Out: 28.263+/-0.004 χ^2 /NDF:3656258.8/55

All: 28.251+/-0.003 χ^2 /NDF: 6860218.9/104

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -37.719 ± 53.721 χ^2/NDF : 20.8/25

Left Out: -13.966 ± 48.735 χ^2/NDF : 8.1/24

Right Out: -30.510 ± 51.022 χ^2/NDF : 17.3/30

Left In: 31.477 ± 46.483 χ^2/NDF : 7.8/22

Left: 9.830 ± 33.637 χ^2/NDF : 16.4/47

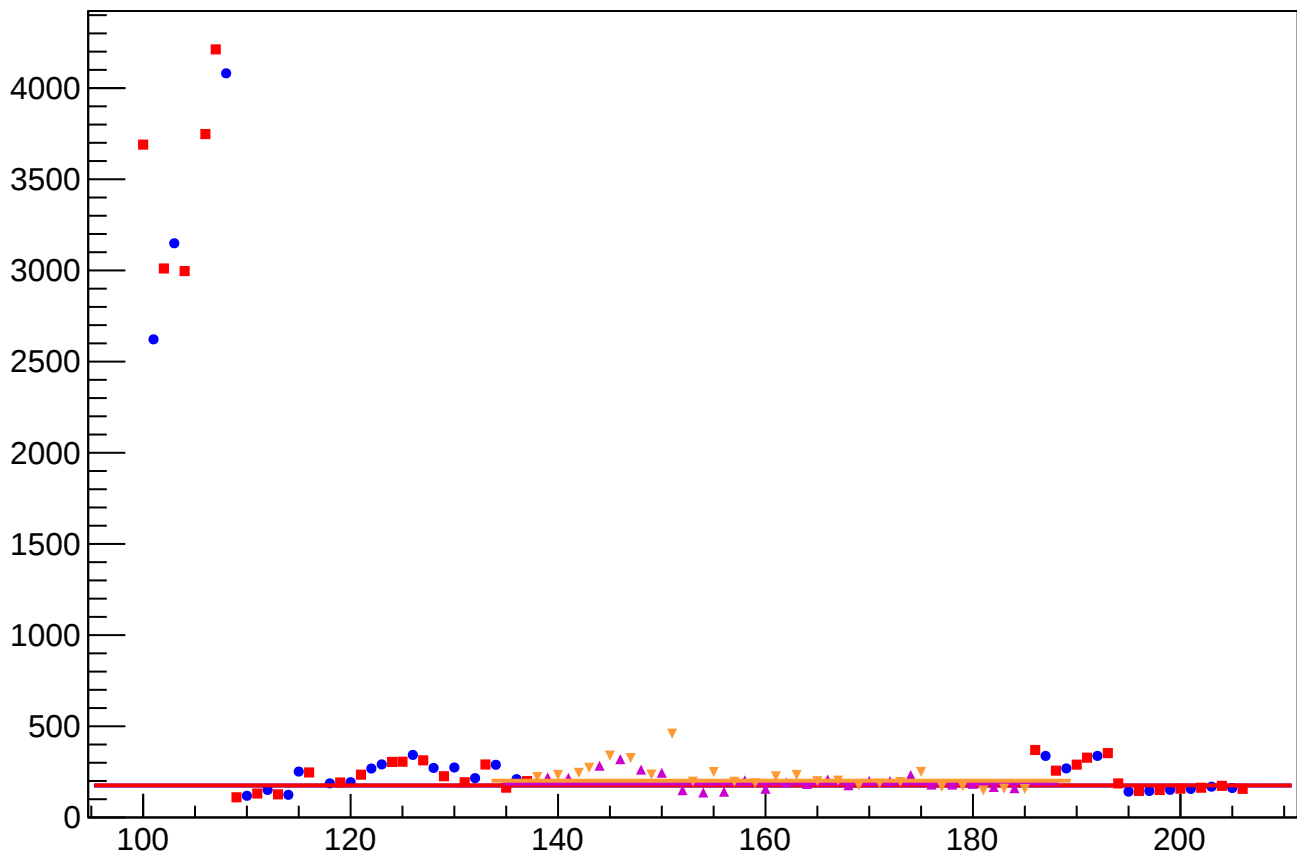
Right: -33.929 ± 36.995 χ^2/NDF : 38.2/56

In: 1.852 ± 35.151 χ^2/NDF : 29.6/48

Out: -21.859 ± 35.242 χ^2/NDF : 25.5/55

All: -9.973 ± 24.888 χ^2/NDF : 55.4/104

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 175.013 $\pm$ 0.038 χ^2 /NDF: 4460247.3/25

Left Out: 201.503 $\pm$ 0.034 χ^2 /NDF:1854905.1/24

Right Out: 175.787 $\pm$ 0.036 χ^2 /NDF: 5292633.5/30

Left In: 185.878 $\pm$ 0.033 χ^2 /NDF:1380877.6/22

Left: 193.321 $\pm$ 0.024 χ^2 /NDF: 3343425.2/47

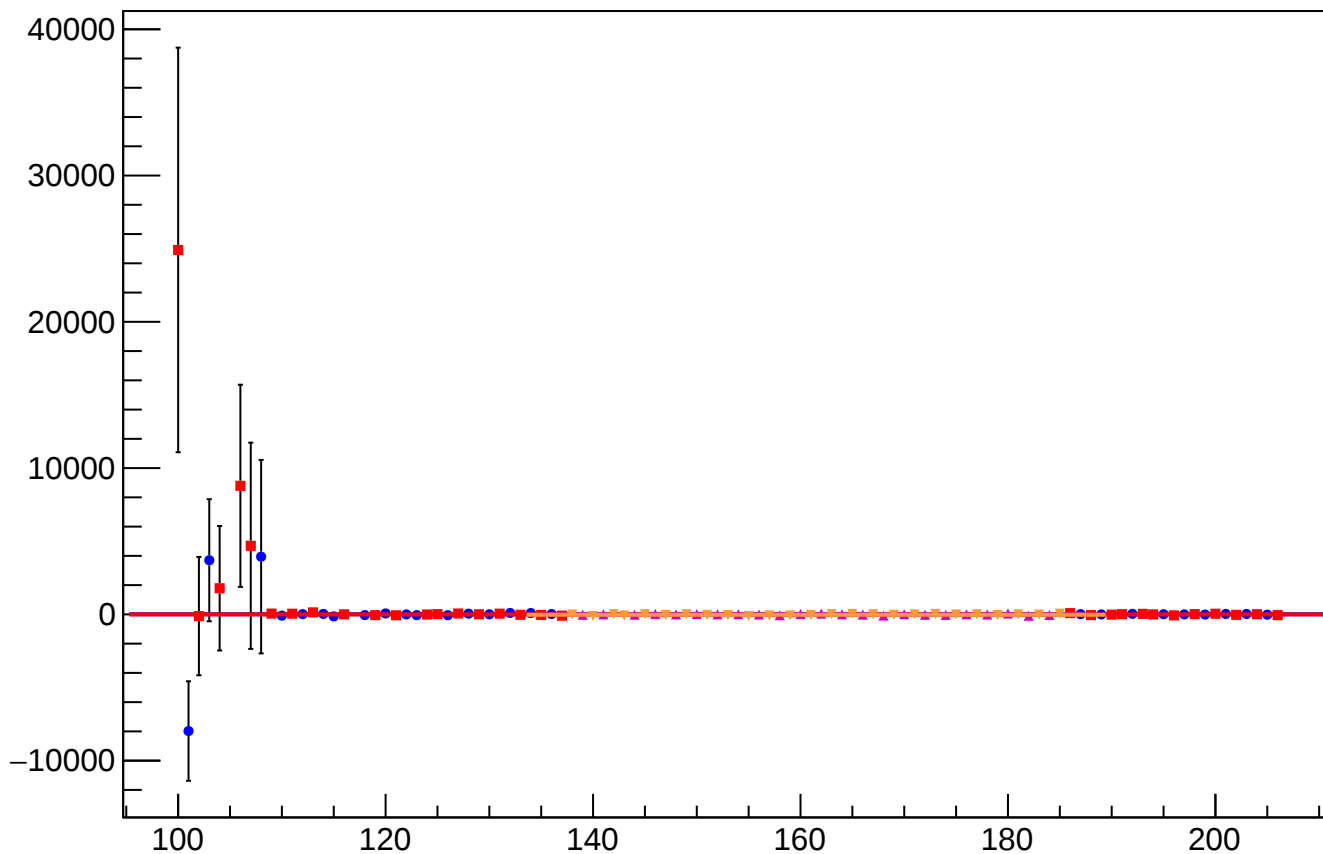
Right: 175.420 $\pm$ 0.026 χ^2 /NDF: 9753098.6/56

In: 181.227 $\pm$ 0.025 χ^2 /NDF:5887908.7/48

Out: 189.234 $\pm$ 0.025 χ^2 /NDF:7413217.8/55

All: 185.220 $\pm$ 0.018 χ^2 /NDF: 13352882.9/10

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 7.863+/-9.884 χ^2/NDF : 22.4/25

Left Out: -24.144+/-8.076 χ^2/NDF : 24.9/24

Right Out: 0.725+/-9.277 χ^2/NDF : 34.3/30

Left In: -5.924+/-8.340 χ^2/NDF : 21.0/22

Left: -15.326+/-5.802 χ^2/NDF : 48.4/47

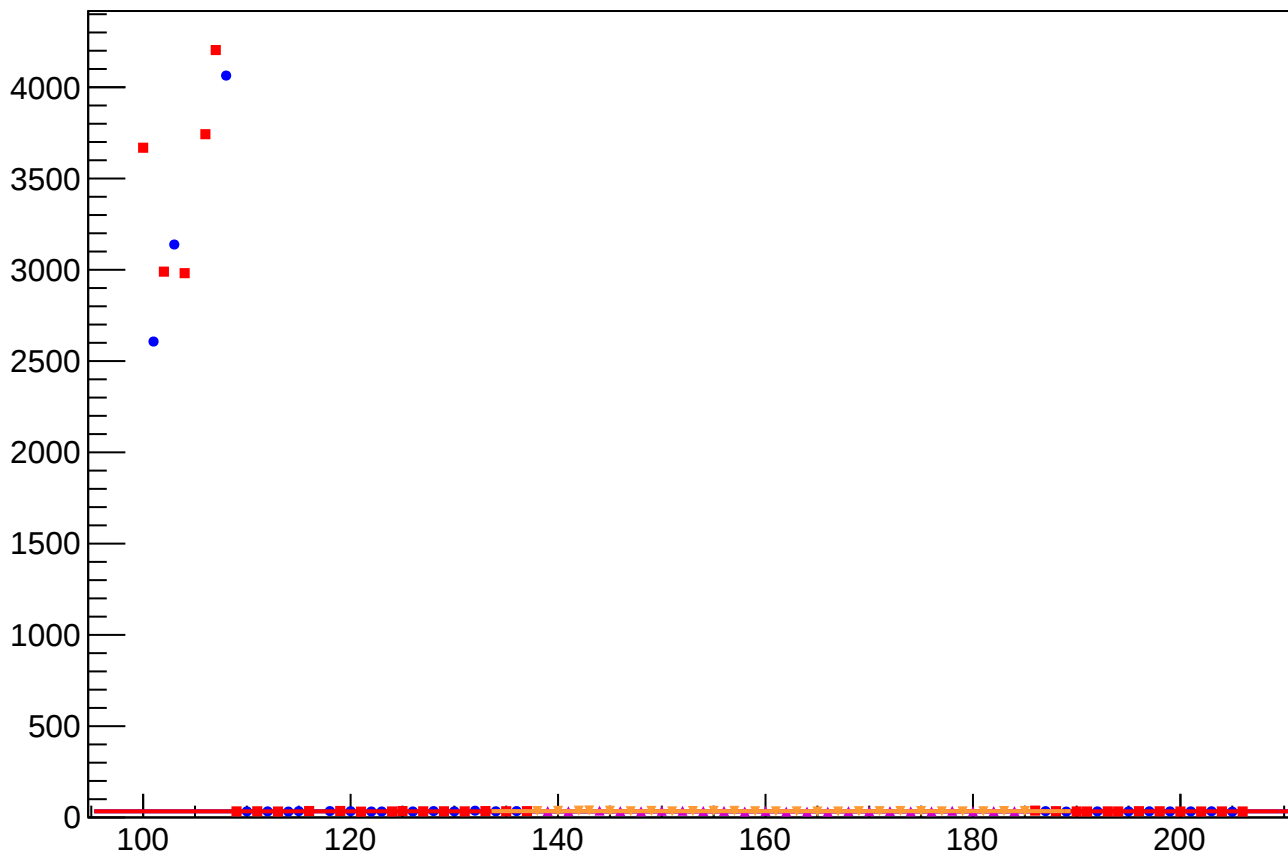
Right: 4.068+/-6.764 χ^2/NDF : 57.0/56

In: -0.190+/-6.374 χ^2/NDF : 44.5/48

Out: -13.421+/-6.091 χ^2/NDF : 63.3/55

All: -7.106+/-4.404 χ^2/NDF : 110.1/104

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 33.548 $\pm$ 0.007 χ^2 /NDF: 3017357.2/25

Left Out: 34.617 $\pm$ 0.006 χ^2 /NDF: 57868.4/24

Right Out: 33.623 $\pm$ 0.007 χ^2 /NDF: 3467526.5/30

Left In: 34.682 $\pm$ 0.006 χ^2 /NDF: 59834.3/22

Left: 34.649 $\pm$ 0.004 χ^2 /NDF: 117764.0/47

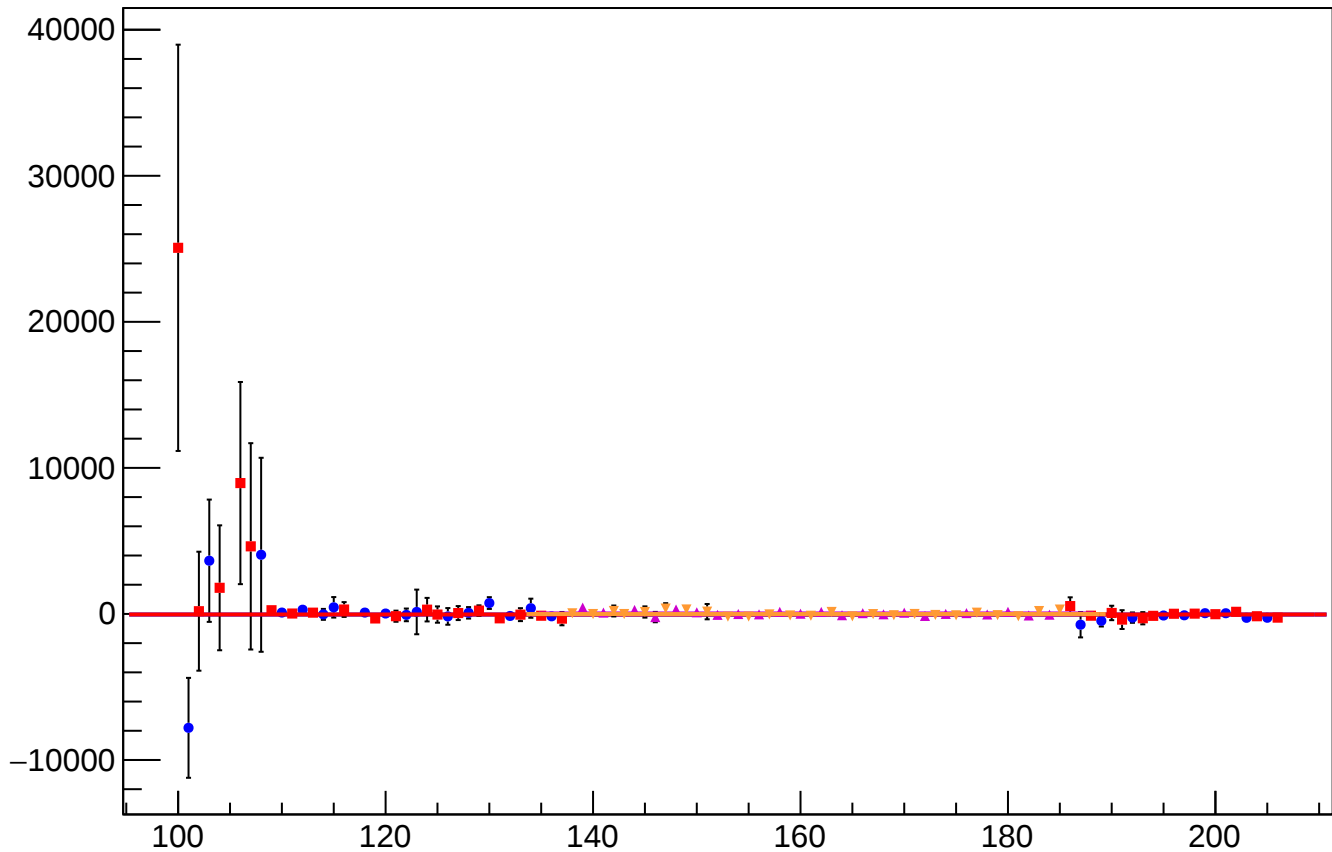
Right: 33.588 $\pm$ 0.005 χ^2 /NDF: 6484944.1/56

In: 34.210 $\pm$ 0.005 χ^2 /NDF: 3092557.7/48

Out: 34.189 $\pm$ 0.004 χ^2 /NDF: 3538477.7/55

All: 34.199 $\pm$ 0.003 χ^2 /NDF: 6631047.6/104

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -42.311 ± 53.560 χ^2/NDF : 20.6/25

Left Out: -7.558 ± 48.662 χ^2/NDF : 8.8/24

Right Out: -37.038 ± 50.821 χ^2/NDF : 16.2/30

Left In: 34.977 ± 46.421 χ^2/NDF : 7.1/22

Left: 14.712 ± 33.589 χ^2/NDF : 16.3/47

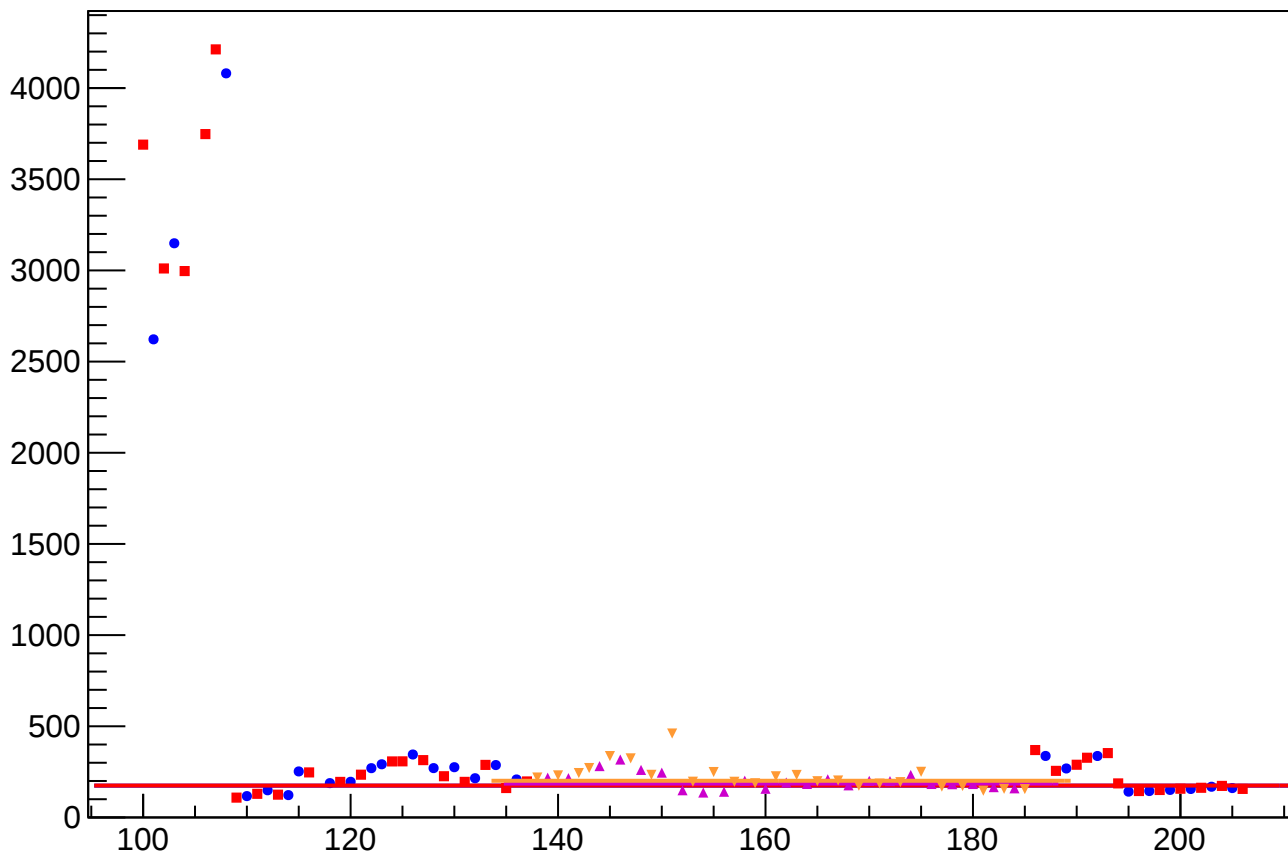
Right: -39.536 ± 36.866 χ^2/NDF : 36.8/56

In: 1.824 ± 35.079 χ^2/NDF : 28.9/48

Out: -21.658 ± 35.148 χ^2/NDF : 25.2/55

All: -9.894 ± 24.829 χ^2/NDF : 54.3/104

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 174.381 $\pm$ 0.038 χ^2 /NDF: 4489338.1/25

Left Out: 201.198 $\pm$ 0.034 χ^2 /NDF:1848437.4/24

Right Out: 174.910 $\pm$ 0.036 χ^2 /NDF: 5341454.5/30

Left In: 185.627 $\pm$ 0.033 χ^2 /NDF:1371411.2/22

Left: 193.046 $\pm$ 0.024 χ^2 /NDF: 3327061.1/47

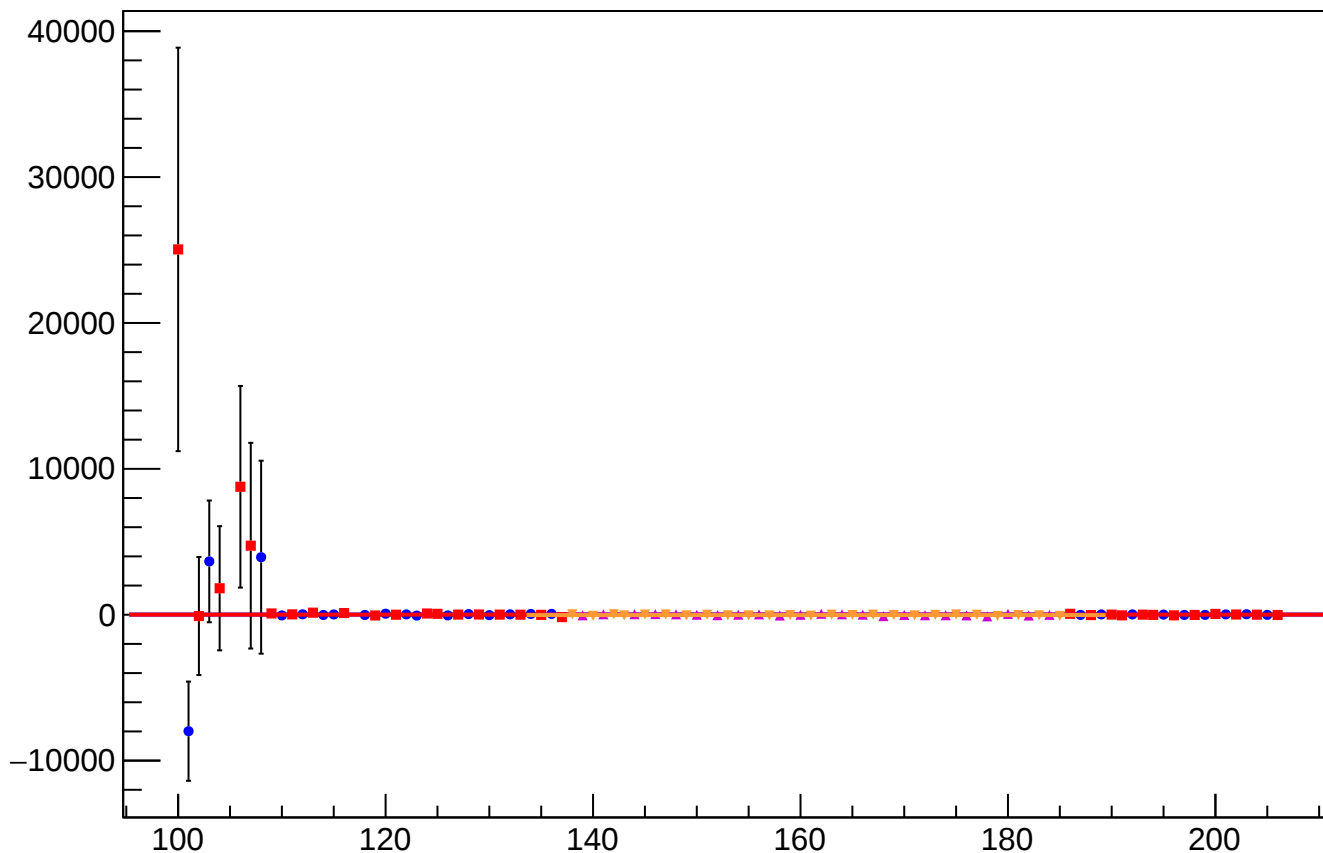
Right: 174.659 $\pm$ 0.026 χ^2 /NDF: 9830895.2/56

In: 180.803 $\pm$ 0.025 χ^2 /NDF:5911106.2/48

Out: 188.624 $\pm$ 0.025 χ^2 /NDF:7469078.7/55

All: 184.706 $\pm$ 0.018 χ^2 /NDF: 13429797.9/10

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 11.274+/-8.950 χ^2/NDF : 16.9/25

Left Out: -23.320+/-7.352 χ^2/NDF :18.3/24

Right Out: 7.662+/-8.403 χ^2/NDF : 36.9/30

Left In: -6.386+/-7.577 χ^2/NDF :38.7/22

Left: -15.108+/-5.276 χ^2/NDF : 59.6/47

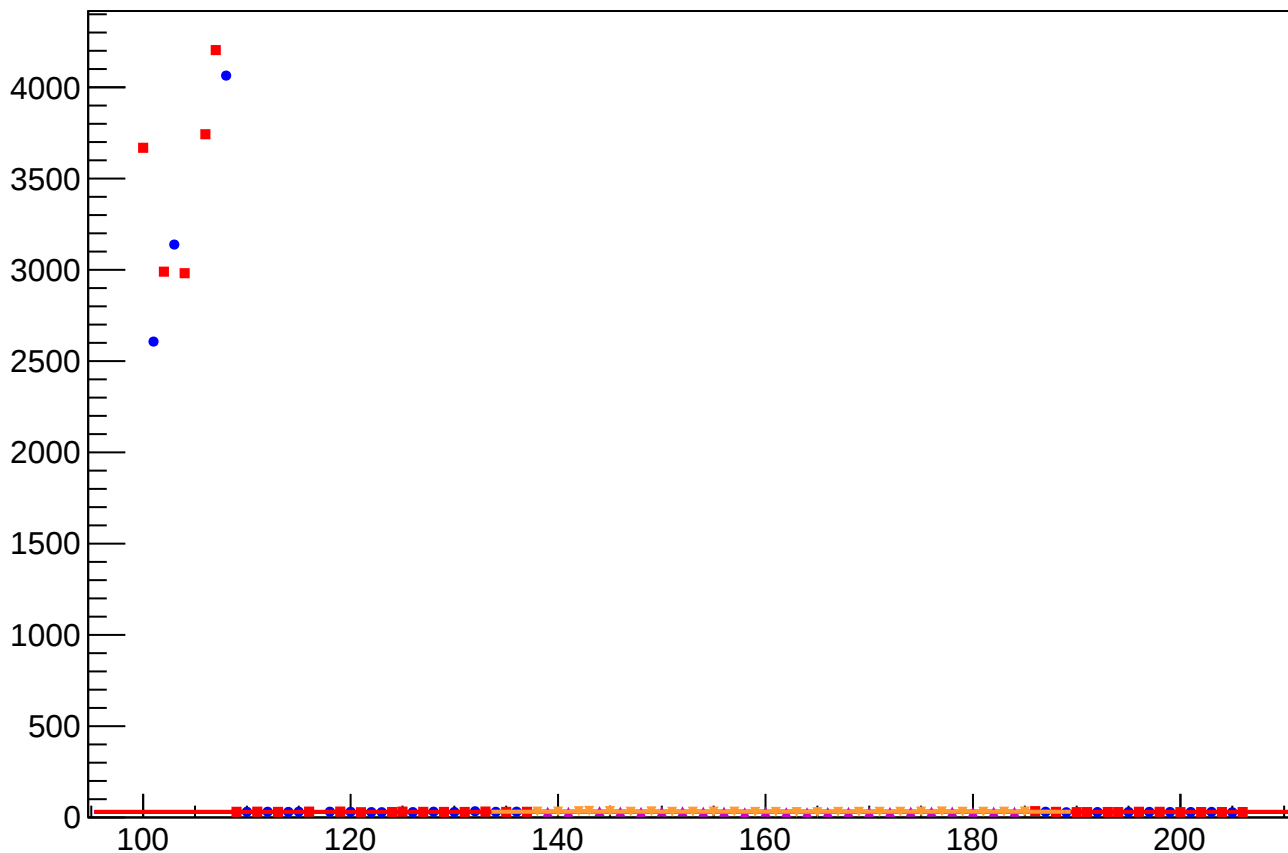
Right: 9.354+/-6.126 χ^2/NDF : 53.9/56

In: 0.987+/-5.783 χ^2/NDF :57.9/48

Out: -9.887+/-5.533 χ^2/NDF :62.9/55

All: -4.690+/-3.998 χ^2/NDF : 122.7/104

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 30.368 $\pm$ 0.006 χ^2 /NDF: 3034759.5/25

Left Out: 31.488 $\pm$ 0.005 χ^2 /NDF:81938.2/24

Right Out: 30.431 $\pm$ 0.006 χ^2 /NDF: 3483937.3/30

Left In: 31.475 $\pm$ 0.005 χ^2 /NDF:87797.5/22

Left: 31.482 $\pm$ 0.004 χ^2 /NDF: 169738.8/47

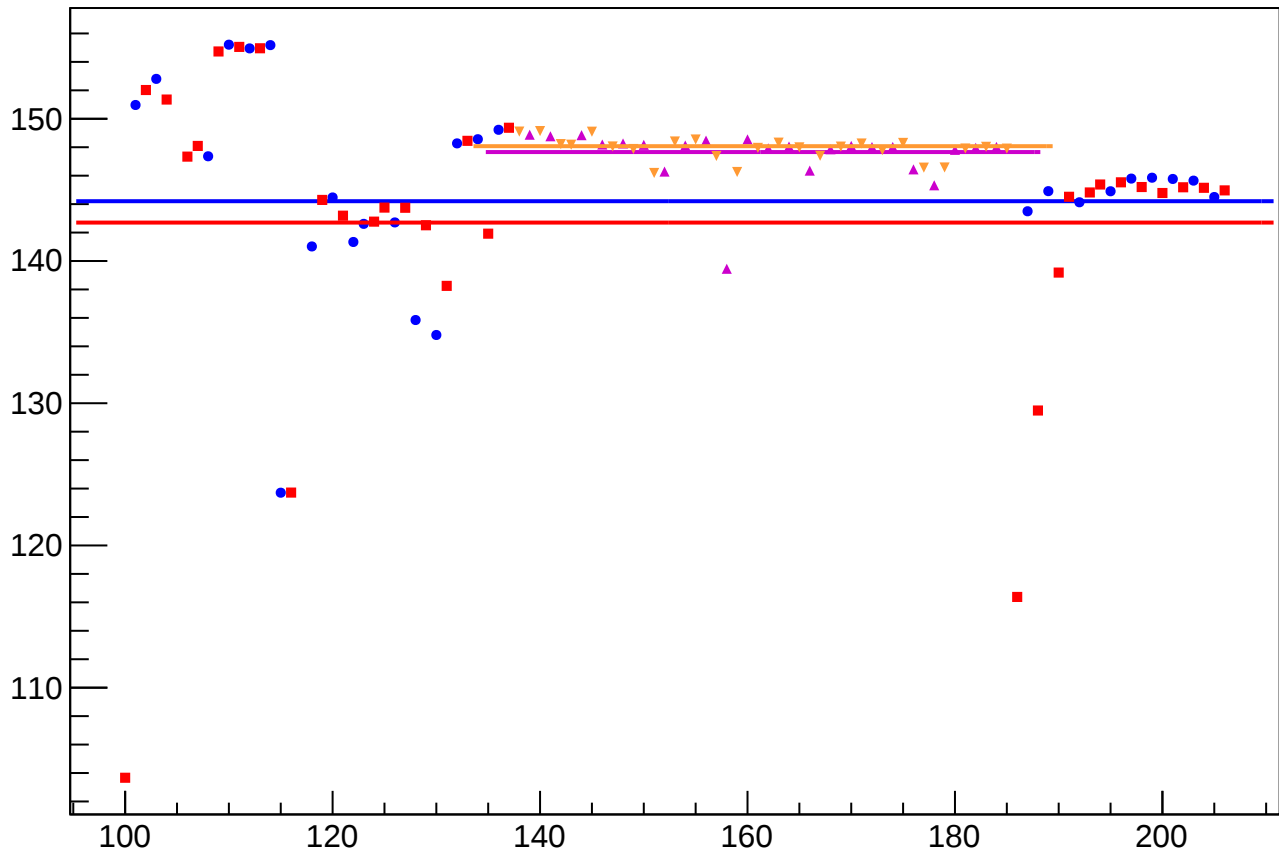
Right: 30.401 $\pm$ 0.004 χ^2 /NDF: 6518749.6/56

In: 31.013 $\pm$ 0.004 χ^2 /NDF:3140396.1/48

Out: 31.030 $\pm$ 0.004 χ^2 /NDF:3583818.5/55

All: 31.022 $\pm$ 0.003 χ^2 /NDF: 6724223.6/104

yield_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: 144.205 $\pm$ 0.000 χ^2 /NDF: 3482959528.2/25

Left Out: 148.074 $\pm$ 0.000 χ^2 /NDF: 65673678.9/24

Right Out: 142.702 $\pm$ 0.000 χ^2 /NDF: 7407168456.3/30

Left In: 147.660 $\pm$ 0.000 χ^2 /NDF: 343892338.9/22

Left: 147.875 $\pm$ 0.000 χ^2 /NDF: 417177881.5/47

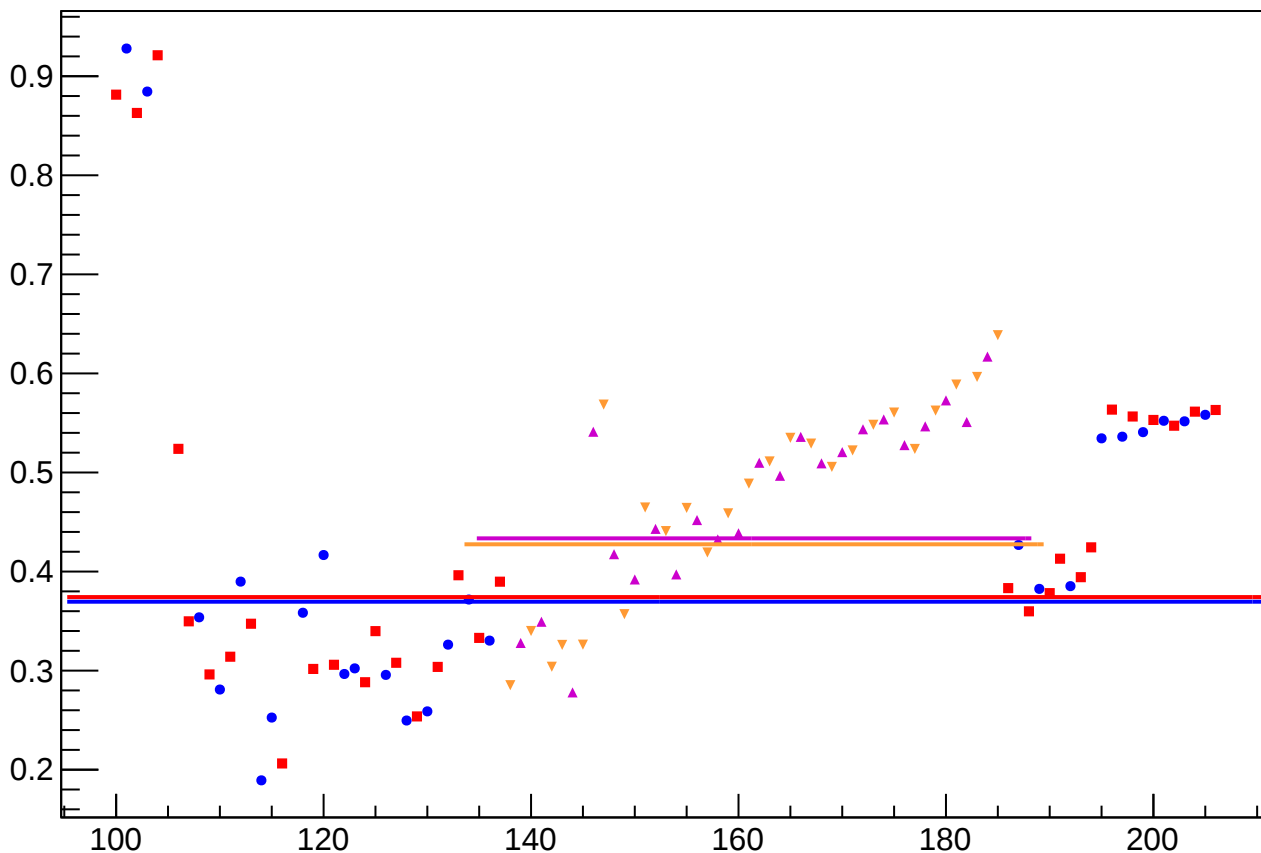
Right: 143.400 $\pm$ 0.000 χ^2 /NDF: 10987433412.6/56

In: 145.989 $\pm$ 0.000 χ^2 /NDF: 4322550058.0/48

Out: 145.386 $\pm$ 0.000 χ^2 /NDF: 8809969128.4/55

All: 145.671 $\pm$ 0.000 χ^2 /NDF: 13164443449.0

yield_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 0.370 $\pm$ 0.000 χ^2 /NDF: 2535712.9/25

Left Out: 0.428 $\pm$ 0.000 χ^2 /NDF:1892802.8/24

Right Out: 0.374 $\pm$ 0.000 χ^2 /NDF: 2529702.3/30

Left In: 0.434 $\pm$ 0.000 χ^2 /NDF:1479367.0/22

Left: 0.430 $\pm$ 0.000 χ^2 /NDF: 3375366.2/47

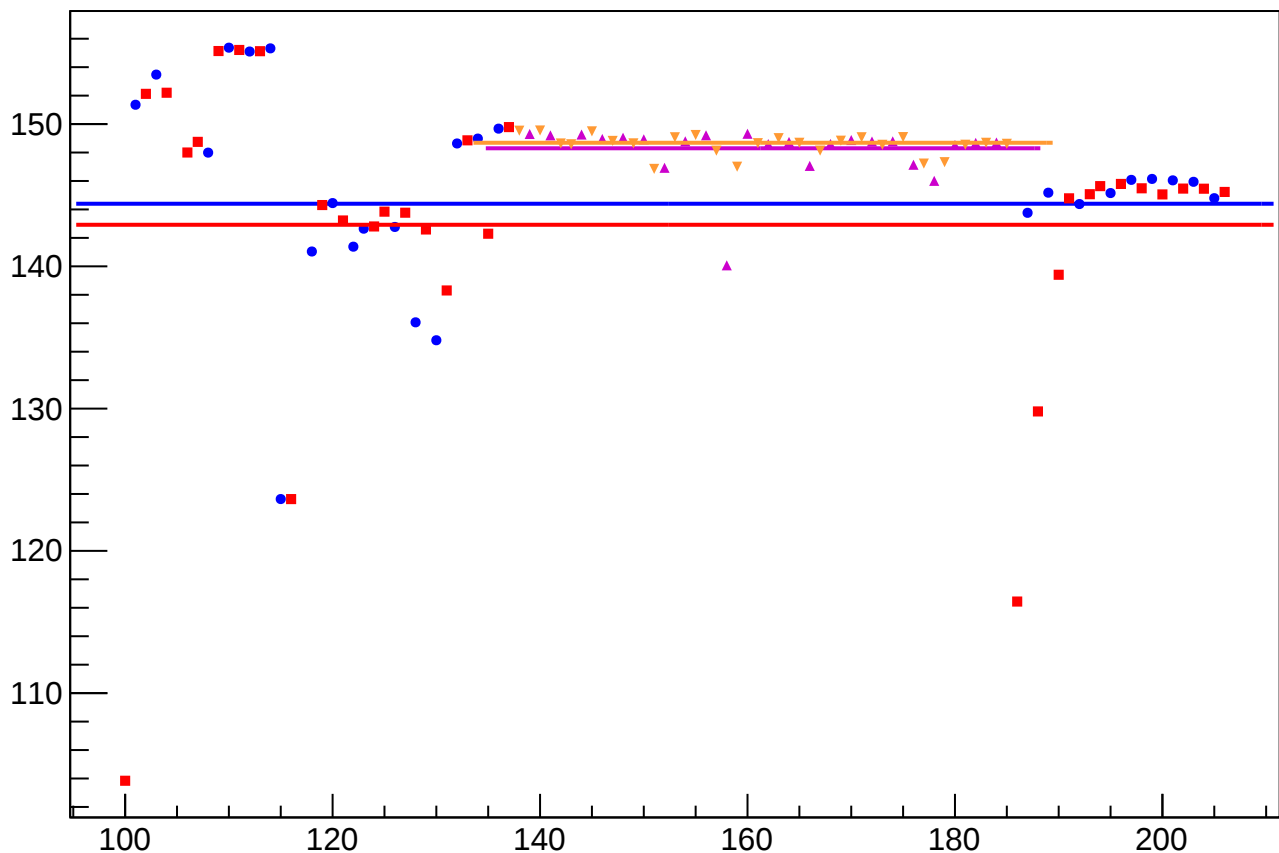
Right: 0.372 $\pm$ 0.000 χ^2 /NDF: 5067286.2/56

In: 0.403 $\pm$ 0.000 χ^2 /NDF:4354491.8/48

Out: 0.401 $\pm$ 0.000 χ^2 /NDF:4685613.7/55

All: 0.402 $\pm$ 0.000 χ^2 /NDF: 9040631.8/104

yield_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: 144.400 $\pm$ 0.000 χ^2 /NDF: 3531104643.6/25

Left Out: 148.687 $\pm$ 0.000 χ^2 /NDF: 52285197.5/24

Right Out: 142.922 $\pm$ 0.000 χ^2 /NDF: 7355632171.4/30

Left In: 148.298 $\pm$ 0.000 χ^2 /NDF: 332527463.6/22

Left: 148.500 $\pm$ 0.000 χ^2 /NDF: 391414535.1/47

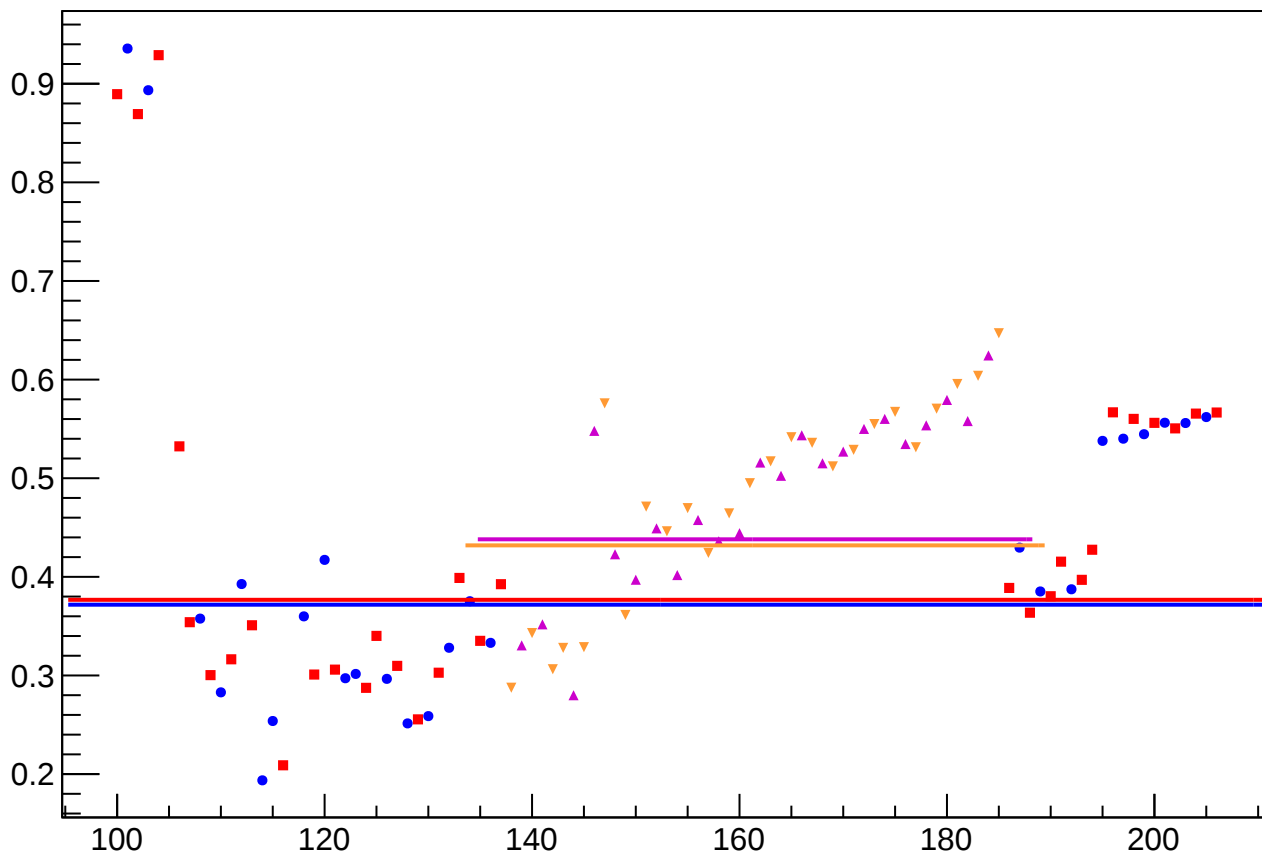
Right: 143.609 $\pm$ 0.000 χ^2 /NDF: 10979688522.1/56

In: 146.404 $\pm$ 0.000 χ^2 /NDF: 4483919224.4/48

Out: 145.791 $\pm$ 0.000 χ^2 /NDF: 8921584173.7/55

All: 146.081 $\pm$ 0.000 χ^2 /NDF: 13437881249.0

yield_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 0.372 $\pm$ 0.000 χ^2 /NDF: 2542834.8/25

Left Out: 0.432 $\pm$ 0.000 χ^2 /NDF:1924979.0/24

Right Out: 0.377 $\pm$ 0.000 χ^2 /NDF: 2533608.0/30

Left In: 0.438 $\pm$ 0.000 χ^2 /NDF:1504635.6/22

Left: 0.435 $\pm$ 0.000 χ^2 /NDF: 3432903.3/47

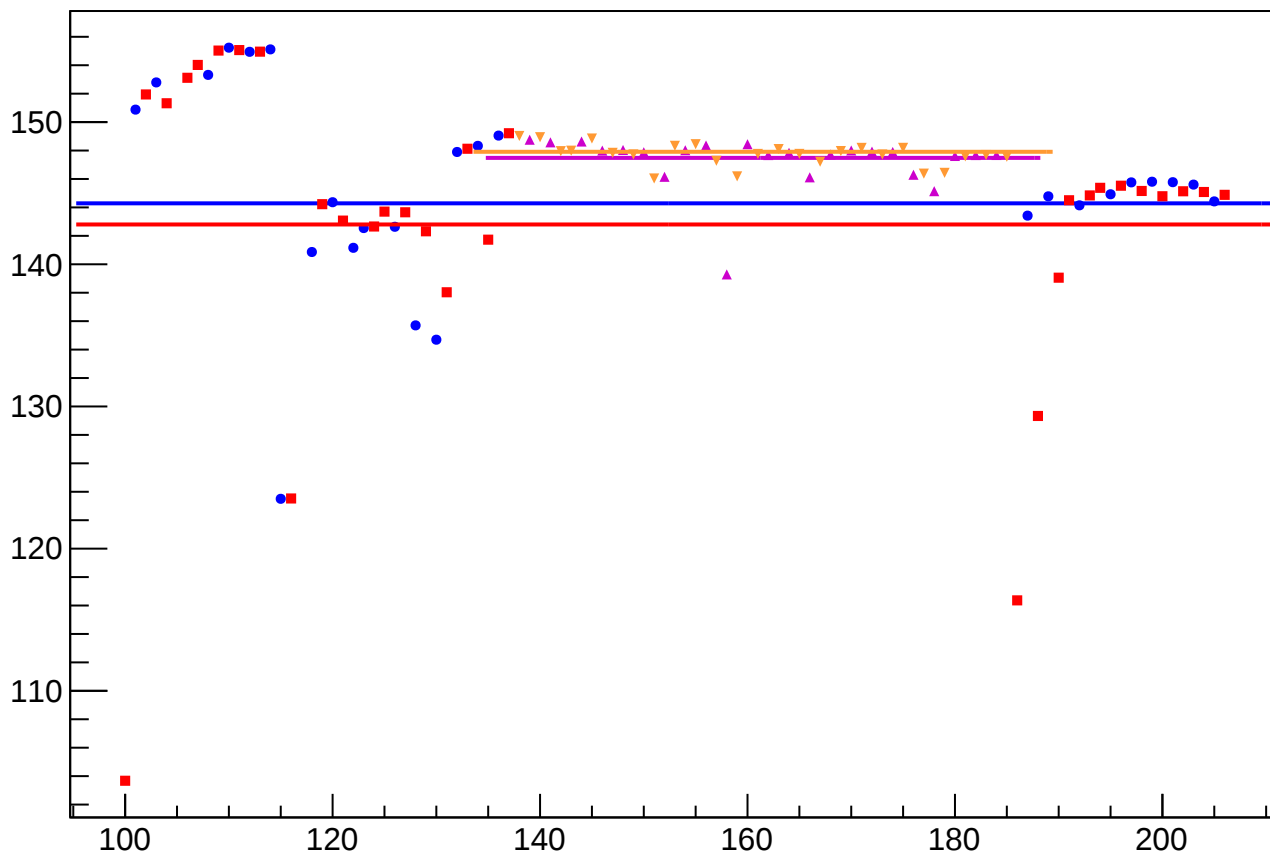
Right: 0.374 $\pm$ 0.000 χ^2 /NDF: 5078519.3/56

In: 0.406 $\pm$ 0.000 χ^2 /NDF:4406246.9/48

Out: 0.404 $\pm$ 0.000 χ^2 /NDF:4736123.5/55

All: 0.405 $\pm$ 0.000 χ^2 /NDF: 9142845.6/104

yield_bcm_an_us_mean vs Slug, Sign Corrected



Right In: 144.287+/-0.000 χ^2/NDF : 3689821710.6/25

Left Out: 147.912+/-0.000 χ^2/NDF : 64463426.1/24

Right Out: 142.800+/-0.000 χ^2/NDF : 7784278939.4/30

Left In: 147.483+/-0.000 χ^2/NDF : 342674720.4/22

Left: 147.706+/-0.000 χ^2/NDF : 415263003.2/47

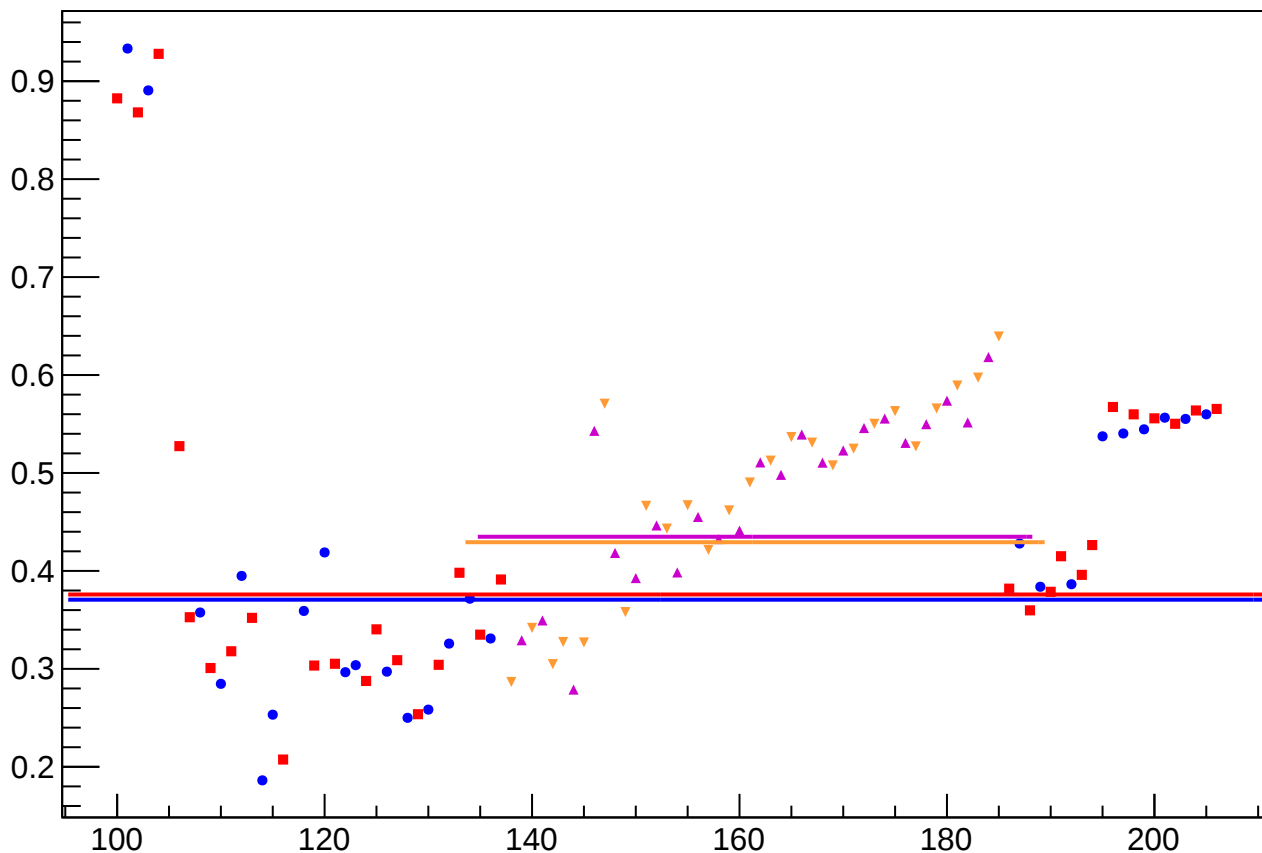
Right: 143.491+/-0.000 χ^2/NDF : 11568549757.4/56

In: 145.938+/-0.000 χ^2/NDF : 4453869599.1/48

Out: 145.355+/-0.000 χ^2/NDF : 9049264670.8/55

All: 145.631+/-0.000 χ^2/NDF : 13532711973.0

yield_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 0.371 $\pm$ 0.000 χ^2 /NDF: 2566207.4/25

Left Out: 0.429 $\pm$ 0.000 χ^2 /NDF:1891709.3/24

Right Out: 0.376 $\pm$ 0.000 χ^2 /NDF: 2534238.3/30

Left In: 0.435 $\pm$ 0.000 χ^2 /NDF:1485915.1/22

Left: 0.432 $\pm$ 0.000 χ^2 /NDF: 3380372.0/47

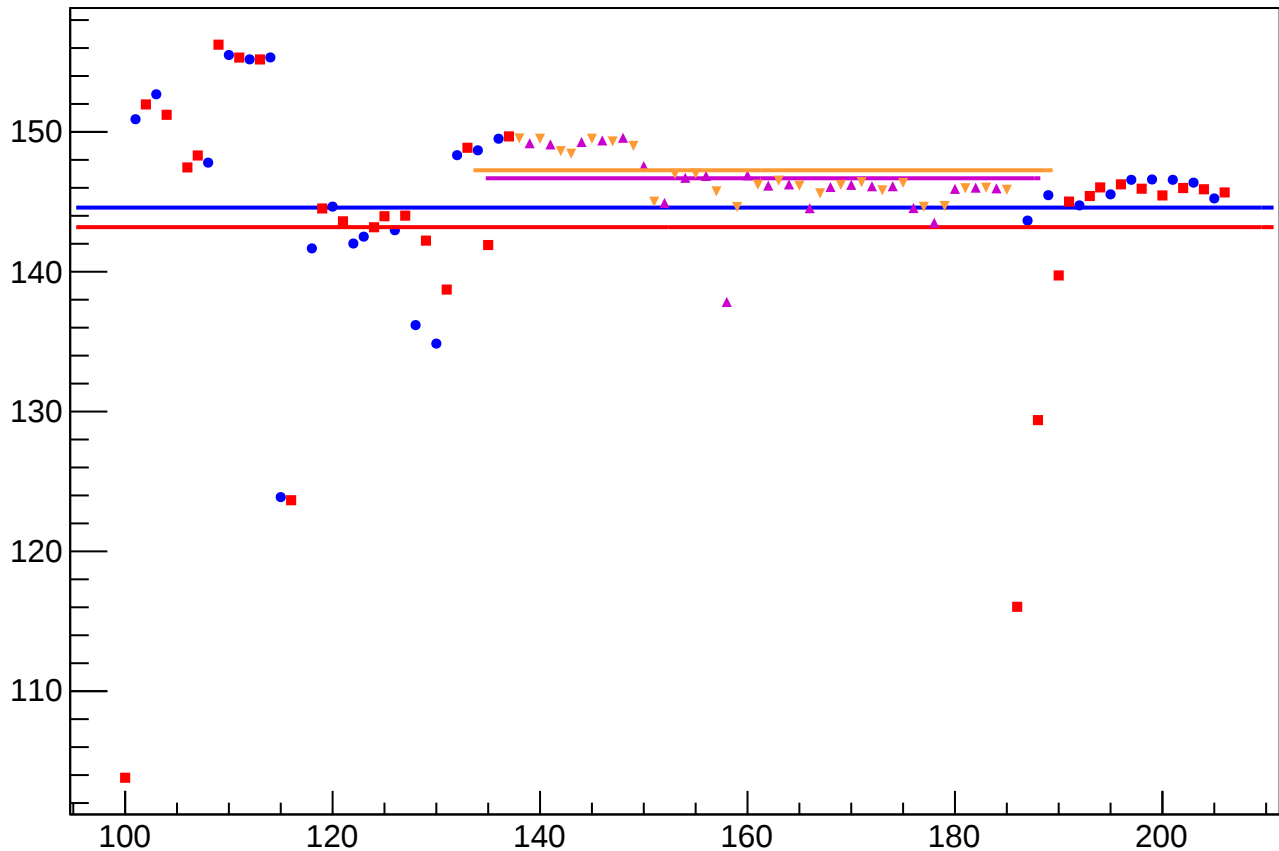
Right: 0.373 $\pm$ 0.000 χ^2 /NDF: 5102846.9/56

In: 0.404 $\pm$ 0.000 χ^2 /NDF:4392665.7/48

Out: 0.403 $\pm$ 0.000 χ^2 /NDF:4687771.5/55

All: 0.403 $\pm$ 0.000 χ^2 /NDF: 9080693.2/104

yield_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: 144.588 $\pm$ 0.000 χ^2 /NDF: 3213654407.2/25

Left Out: 147.257 $\pm$ 0.000 χ^2 /NDF: 261906278.3/24

Right Out: 143.189 $\pm$ 0.000 χ^2 /NDF: 7121579127.8/30

Left In: 146.685 $\pm$ 0.000 χ^2 /NDF: 554922388.0/22

Left: 146.981 $\pm$ 0.000 χ^2 /NDF: 830580031.2/47

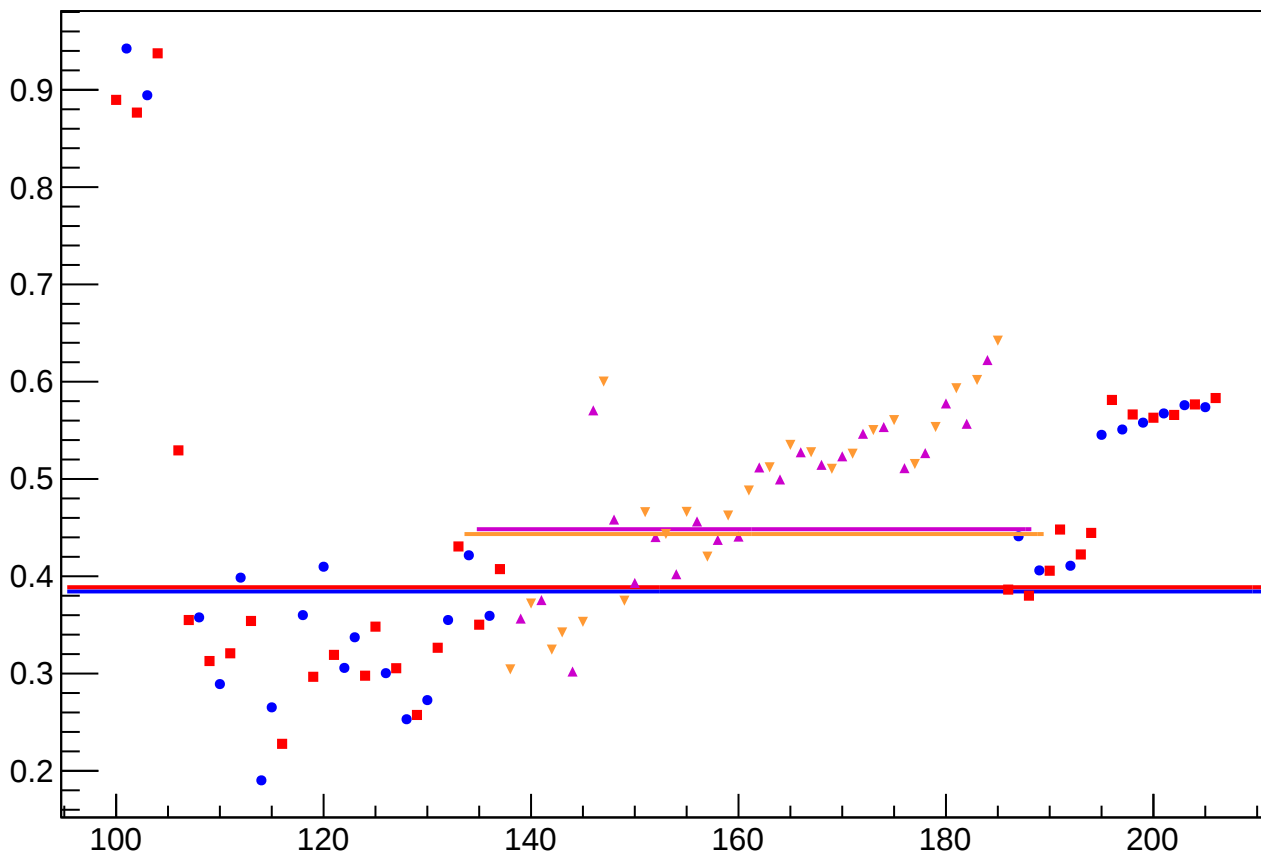
Right: 143.838 $\pm$ 0.000 χ^2 /NDF: 10413021165.6/56

In: 145.683 $\pm$ 0.000 χ^2 /NDF: 3938842515.0/48

Out: 145.237 $\pm$ 0.000 χ^2 /NDF: 8098001945.5/55

All: 145.448 $\pm$ 0.000 χ^2 /NDF: 12053141173.0

yield_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 0.384 $\pm$ 0.000 χ^2 /NDF: 2504481.1/25

Left Out: 0.443 $\pm$ 0.000 χ^2 /NDF:1480479.3/24

Right Out: 0.389 $\pm$ 0.000 χ^2 /NDF: 2471789.0/30

Left In: 0.448 $\pm$ 0.000 χ^2 /NDF:1120261.8/22

Left: 0.446 $\pm$ 0.000 χ^2 /NDF: 2602838.0/47

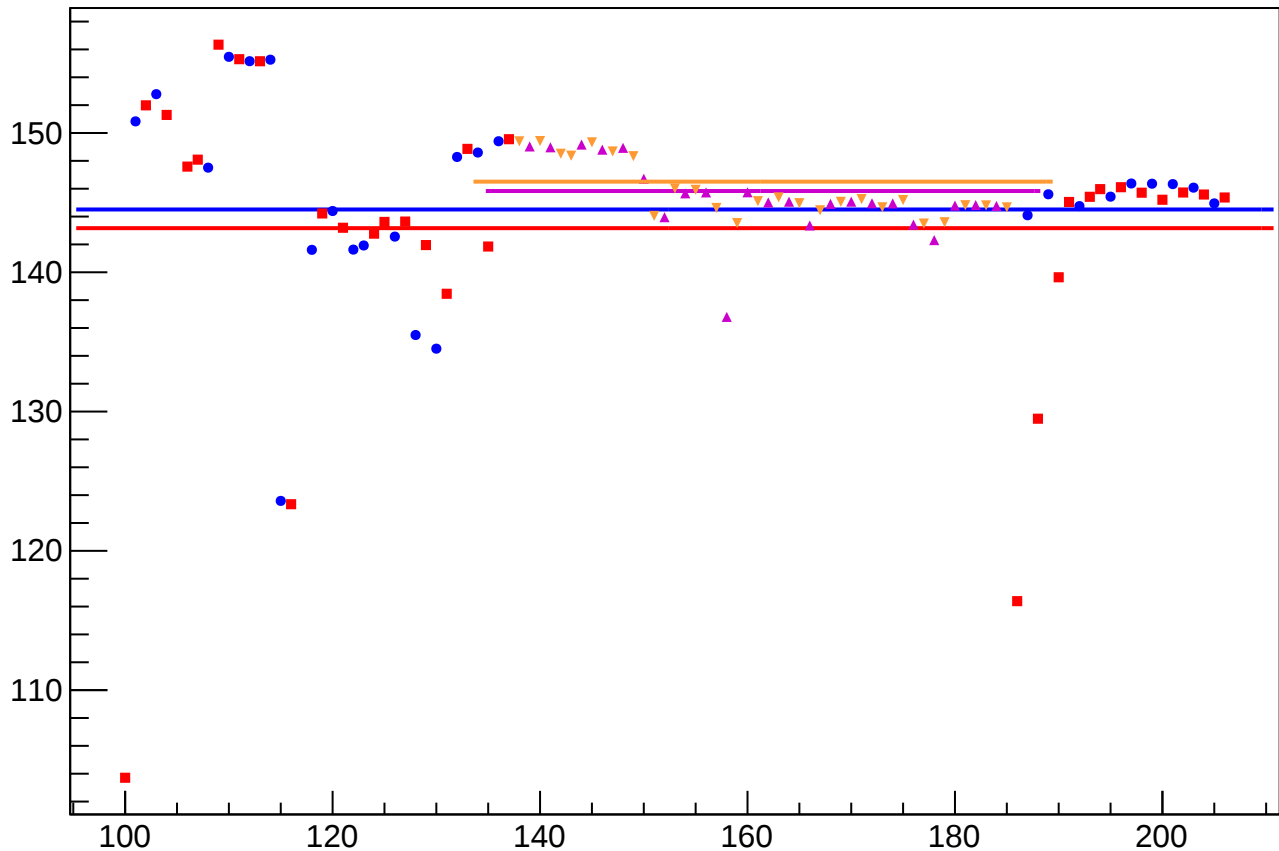
Right: 0.387 $\pm$ 0.000 χ^2 /NDF: 4977781.8/56

In: 0.418 $\pm$ 0.000 χ^2 /NDF:3941919.7/48

Out: 0.416 $\pm$ 0.000 χ^2 /NDF:4210045.3/55

All: 0.417 $\pm$ 0.000 χ^2 /NDF: 8152367.8/104

yield_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: 144.509 $\pm$ 0.000 χ^2 /NDF: 3324971199.9/25

Left Out: 146.508 $\pm$ 0.000 χ^2 /NDF: 401248837.9/24

Right Out: 143.167 $\pm$ 0.000 χ^2 /NDF: 7075428558.8/30

Left In: 145.834 $\pm$ 0.000 χ^2 /NDF: 690172810.0/22

Left: 146.184 $\pm$ 0.000 χ^2 /NDF: 1110403123.5/47

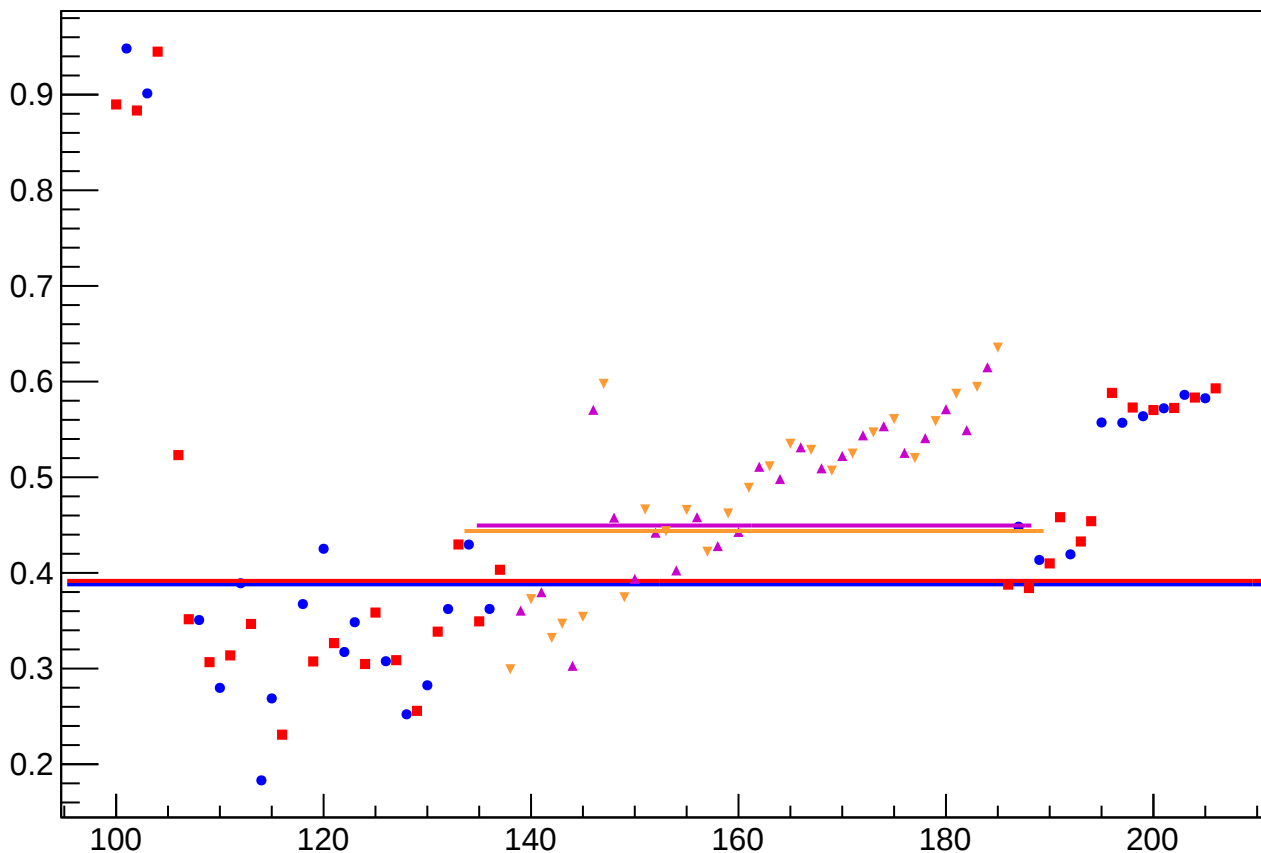
Right: 143.788 $\pm$ 0.000 χ^2 /NDF: 10470449196.7/56

In: 145.207 $\pm$ 0.000 χ^2 /NDF: 4082207648.2/48

Out: 144.863 $\pm$ 0.000 χ^2 /NDF: 7953573220.8/55

All: 145.025 $\pm$ 0.000 χ^2 /NDF: 12045365635.0/100

yield_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 0.388 $\pm$ 0.000 χ^2 /NDF: 2551913.8/25

Left Out: 0.444 $\pm$ 0.000 χ^2 /NDF:1460383.7/24

Right Out: 0.392 $\pm$ 0.000 χ^2 /NDF: 2504299.4/30

Left In: 0.450 $\pm$ 0.000 χ^2 /NDF:1092776.5/22

Left: 0.447 $\pm$ 0.000 χ^2 /NDF: 2555905.8/47

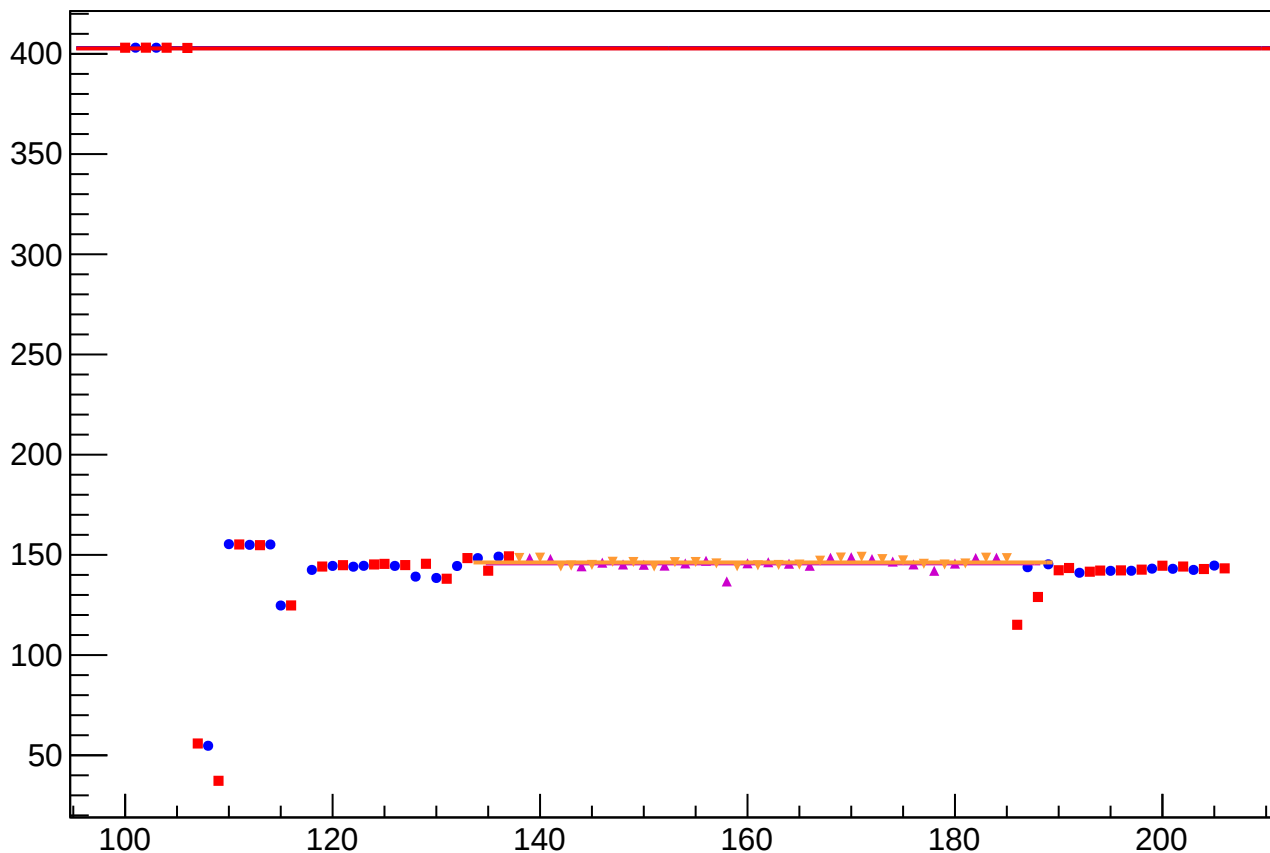
Right: 0.390 $\pm$ 0.000 χ^2 /NDF: 5057244.4/56

In: 0.420 $\pm$ 0.000 χ^2 /NDF:3933378.1/48

Out: 0.418 $\pm$ 0.000 χ^2 /NDF:4196930.1/55

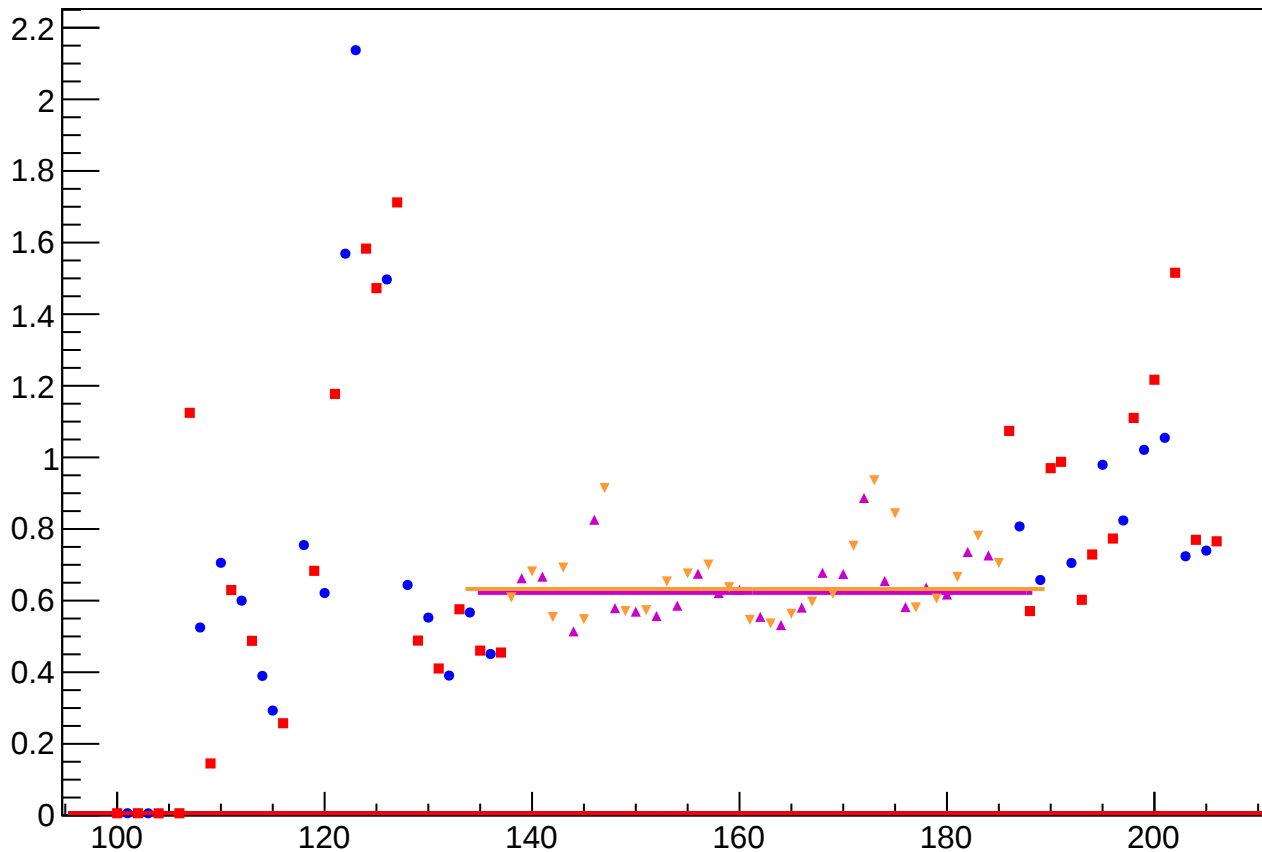
All: 0.419 $\pm$ 0.000 χ^2 /NDF: 8131170.3/104

yield_cav4bQ_mean vs Slug, Sign Corrected



Right In: 402.893+/-0.000	χ^2/NDF : 1614391892586.0/25	Left: 145.987+/-0.000	χ^2/NDF : 295994641.0/47
Left Out: 146.216+/-0.000	χ^2/NDF : 86042286.3/24	Right: 402.800+/-0.000	χ^2/NDF : 5470216324144.1
Right Out: 402.718+/-0.000	χ^2/NDF : 3855314982846.0/30	In: 402.602+/-0.000	χ^2/NDF : 3945503290436.5/48
Left In: 145.755+/-0.000	χ^2/NDF : 206171532.0/22	Out: 402.457+/-0.000	χ^2/NDF : 6212524888055.1/5
		All: 402.525+/-0.000	χ^2/NDF : 101583767670

yield_cav4bQ_rms vs Slug, Sign Corrected



Right In: 0.007 $\pm$ 0.000 χ^2 /NDF: 19031250.8/25

Left Out: 0.632 $\pm$ 0.000 χ^2 /NDF:613604.5/24

Right Out: 0.007 $\pm$ 0.000 χ^2 /NDF: 22362471.0/30

Left In: 0.622 $\pm$ 0.000 χ^2 /NDF:399965.3/22

Left: 0.627 $\pm$ 0.000 χ^2 /NDF: 1017722.4/47

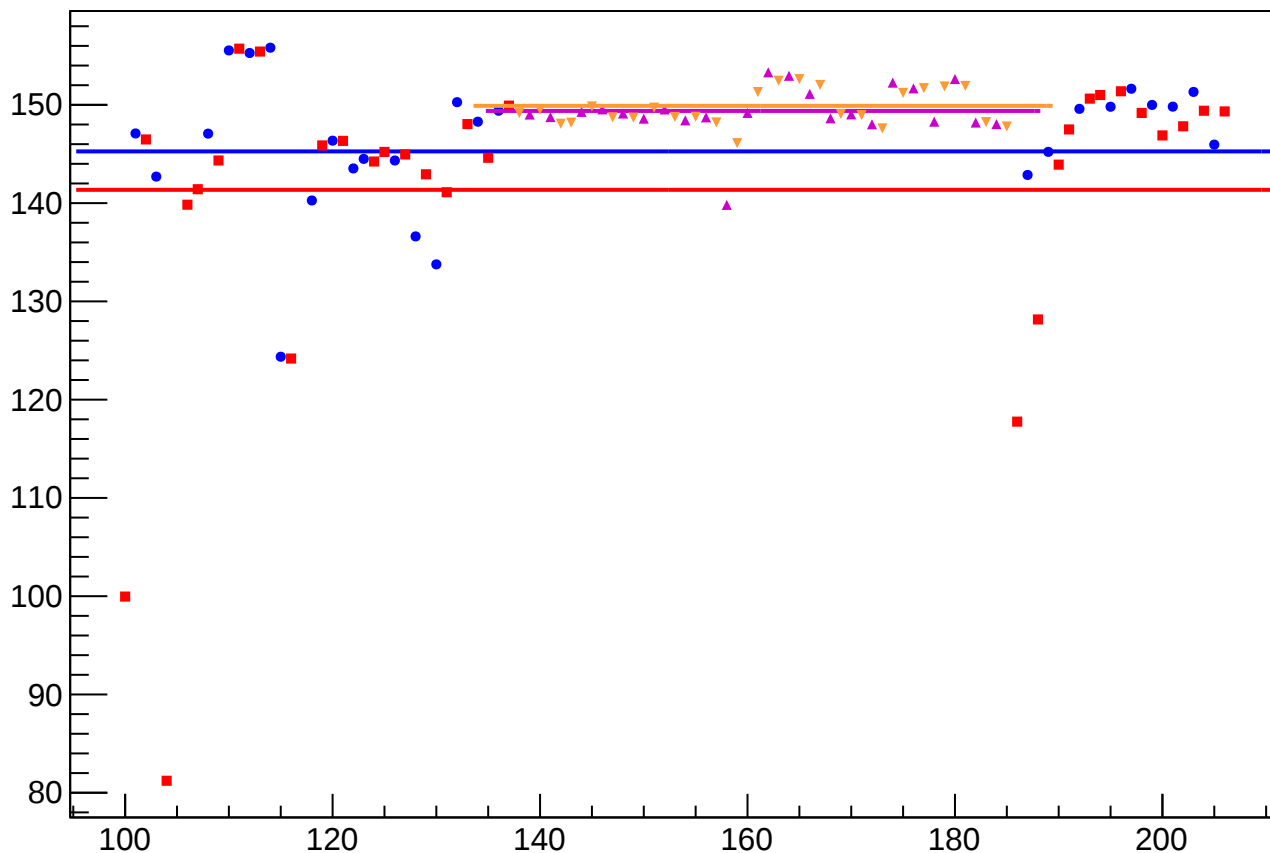
Right: 0.007 $\pm$ 0.000 χ^2 /NDF: 41393741.8/56

In: 0.007 $\pm$ 0.000 χ^2 /NDF:46104145.4/48

Out: 0.007 $\pm$ 0.000 χ^2 /NDF:51041511.9/55

All: 0.007 $\pm$ 0.000 χ^2 /NDF: 97145699.4/104

yield_cav4cQ_mean vs Slug, Sign Corrected



Right In: 145.263 $\pm$ 0.000

χ^2/NDF : 1299953146.8/25

Left: 149.650 $\pm$ 0.000

χ^2/NDF : 604081739.6/47

Right: 143.049 $\pm$ 0.000

χ^2/NDF : 4722032111.7/56

Left Out: 149.900 $\pm$ 0.000

χ^2/NDF : 162845622.6/24

In: 148.149 $\pm$ 0.000

χ^2/NDF : 1974607892.6/48

Right Out: 141.354 $\pm$ 0.000

χ^2/NDF : 3247297286.8/30

Out: 146.976 $\pm$ 0.000

χ^2/NDF : 4678059654.6/55

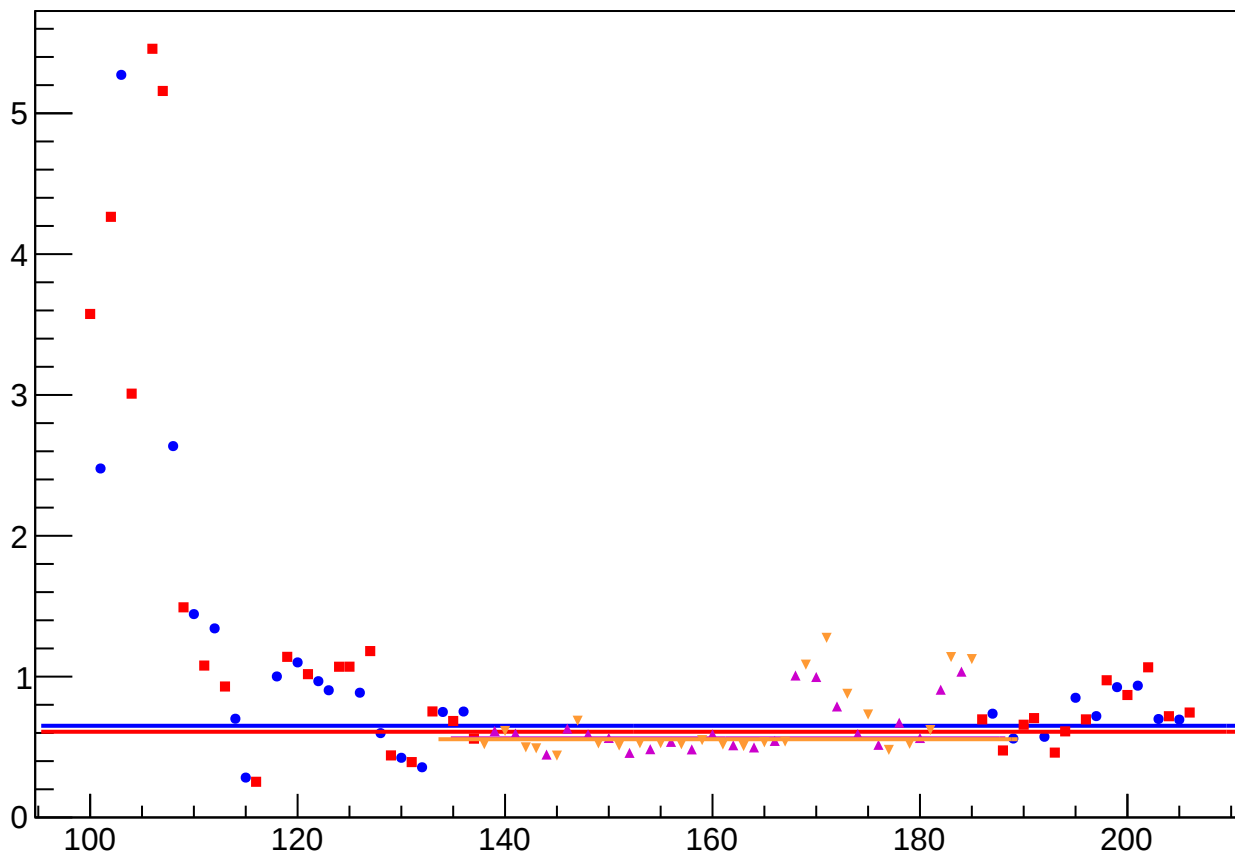
Left In: 149.382 $\pm$ 0.000

χ^2/NDF : 434657827.5/22

All: 147.523 $\pm$ 0.000

χ^2/NDF : 6702199138.7

yield_cav4cQ_rms vs Slug, Sign Corrected



Right In: 0.651 $\pm$ 0.000 χ^2/NDF : 3990683.9/25

Left Out: 0.555 $\pm$ 0.000 χ^2/NDF :1773688.1/24

Right Out: 0.608 $\pm$ 0.000 χ^2/NDF : 5544050.6/30

Left In: 0.562 $\pm$ 0.000 χ^2/NDF :1305573.4/22

Left: 0.559 $\pm$ 0.000 χ^2/NDF : 3081194.0/47

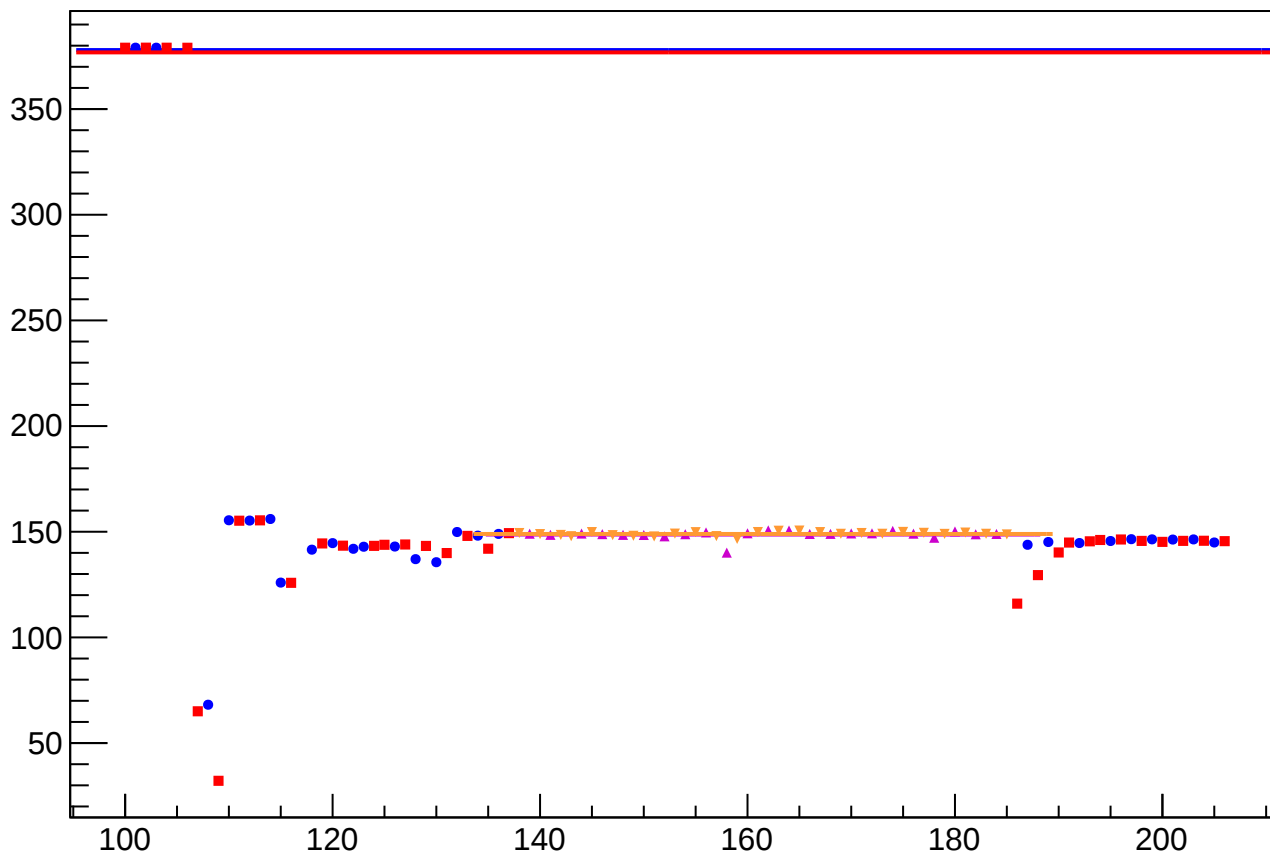
Right: 0.627 $\pm$ 0.000 χ^2/NDF : 9576050.6/56

In: 0.588 $\pm$ 0.000 χ^2/NDF :5521566.2/48

Out: 0.574 $\pm$ 0.000 χ^2/NDF :7415339.6/55

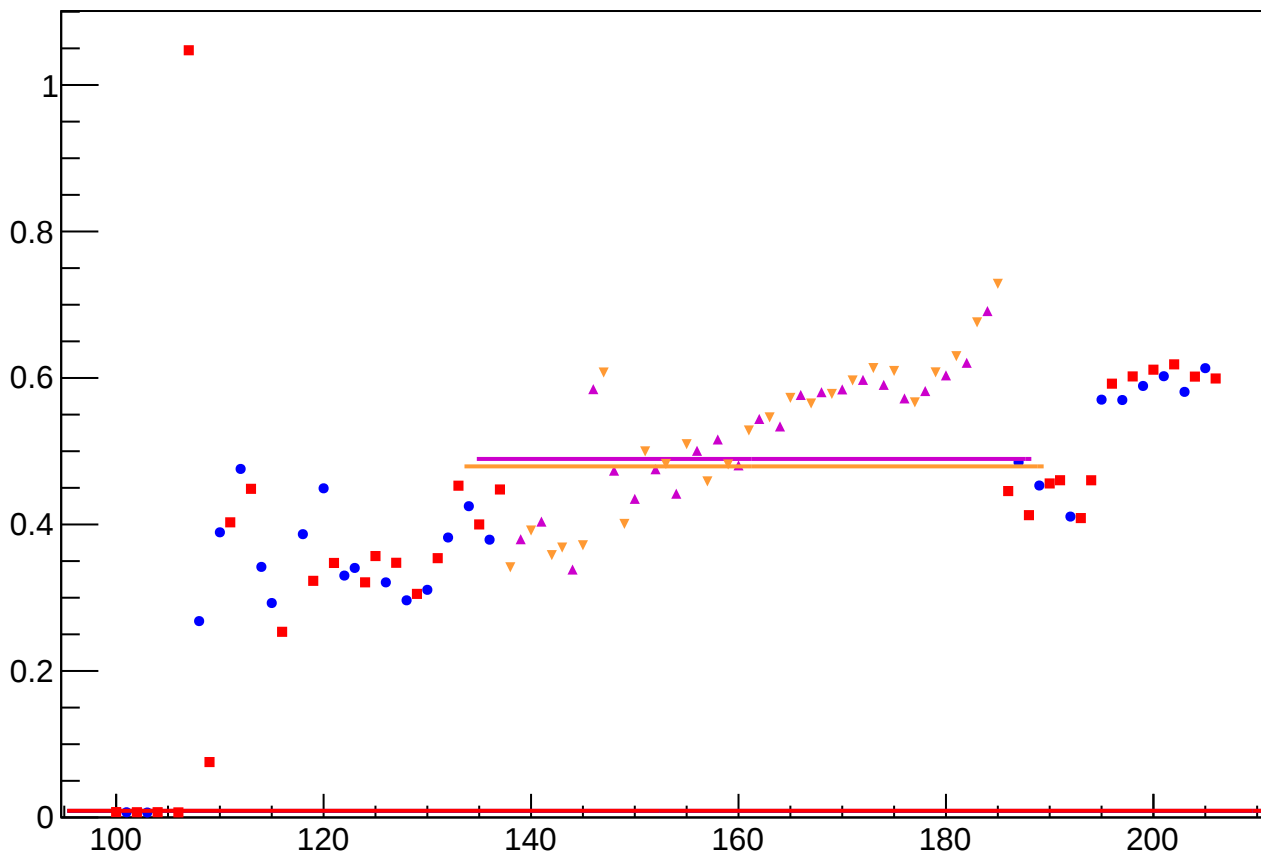
All: 0.581 $\pm$ 0.000 χ^2/NDF : 12952766.7/104

yield_cav4dQ_mean vs Slug, Sign Corrected



Right In: 377.918 $\pm$ 0.000	χ^2 /NDF: 3639338420524.2/25	Left: 148.814 $\pm$ 0.000	χ^2 /NDF: 319467494.9/47
Left Out: 148.944 $\pm$ 0.000	χ^2 /NDF: 63976941.3/24	Right: 377.335 $\pm$ 0.000	χ^2 /NDF: 13595930479425.3
Right Out: 376.825 $\pm$ 0.000	χ^2 /NDF: 9948110112903.1/30	In: 376.748 $\pm$ 0.000	χ^2 /NDF: 7215705824146.2/48
Left In: 148.672 $\pm$ 0.000	χ^2 /NDF: 252846428.3/22	Out: 375.711 $\pm$ 0.000	χ^2 /NDF: 13808485245680.3
		All: 376.196 $\pm$ 0.000	χ^2 /NDF: 210318630062.1

yield_cav4dQ_rms vs Slug, Sign Corrected



Right In: 0.009+/-0.000 χ^2/NDF : 21523485.7/25

Left Out: 0.479+/-0.000 χ^2/NDF :1516566.1/24

Right Out: 0.009+/-0.000 χ^2/NDF : 24531443.1/30

Left In: 0.489+/-0.000 χ^2/NDF :1076134.2/22

Left: 0.484+/-0.000 χ^2/NDF : 2600075.4/47

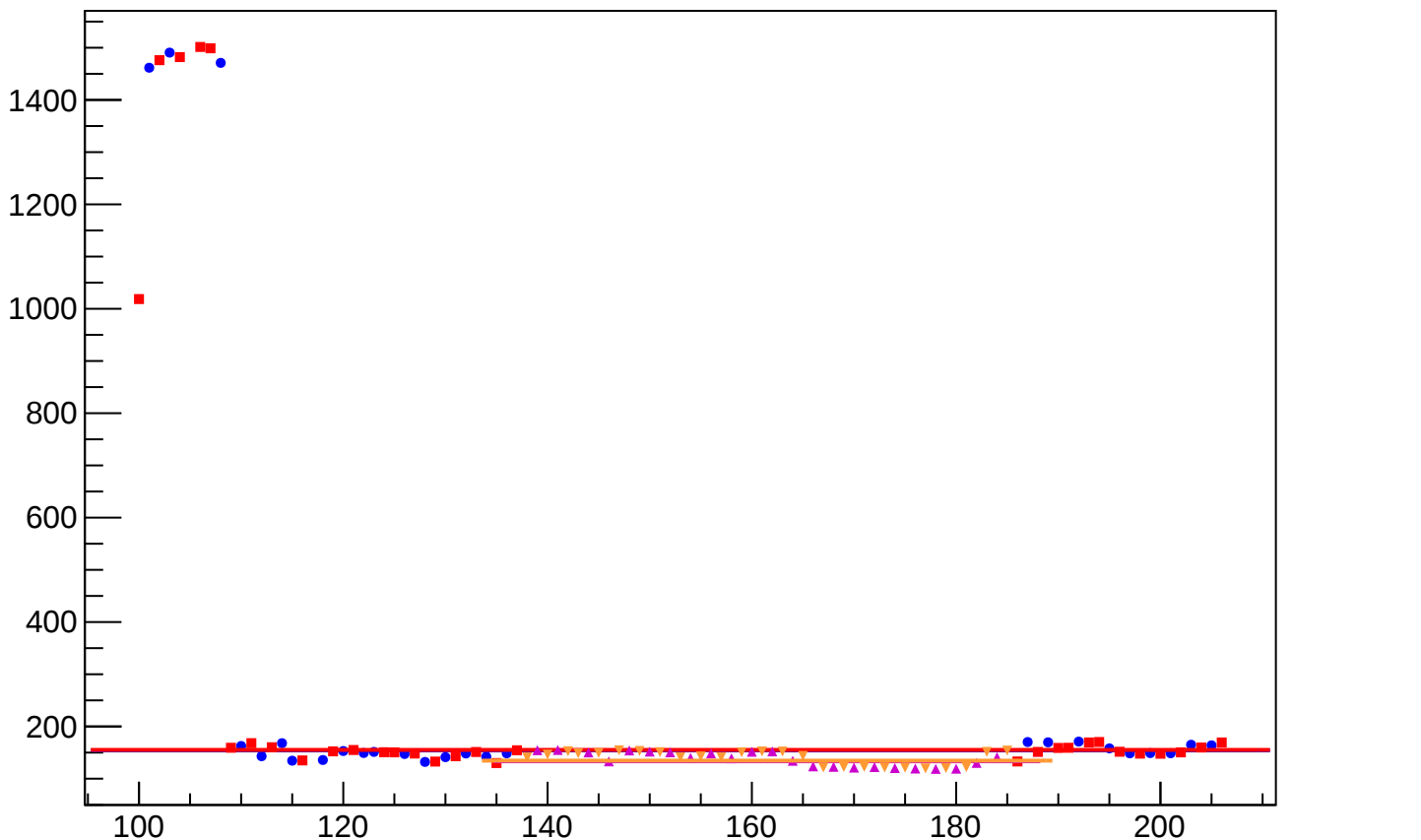
Right: 0.009+/-0.000 χ^2/NDF : 46055340.6/56

In: 0.011+/-0.000 χ^2/NDF :54023873.0/48

Out: 0.011+/-0.000 χ^2/NDF :58916555.0/55

All: 0.011+/-0.000 χ^2/NDF : 112940431.7/104

yield_bcm0l02_mean vs Slug, Sign Corrected



Right In: 154.217 $\pm$ 0.000 χ^2 /NDF: 25691973635.2/25

Left Out: 134.554 $\pm$ 0.000 χ^2 /NDF: 4376966869.3/24

Right Out: 155.107 $\pm$ 0.000 χ^2 /NDF: 34997213561.7/30

Left In: 133.337 $\pm$ 0.000 χ^2 /NDF: 4303812119.2/22

Left: 133.958 $\pm$ 0.000 χ^2 /NDF: 8697951676.8/47

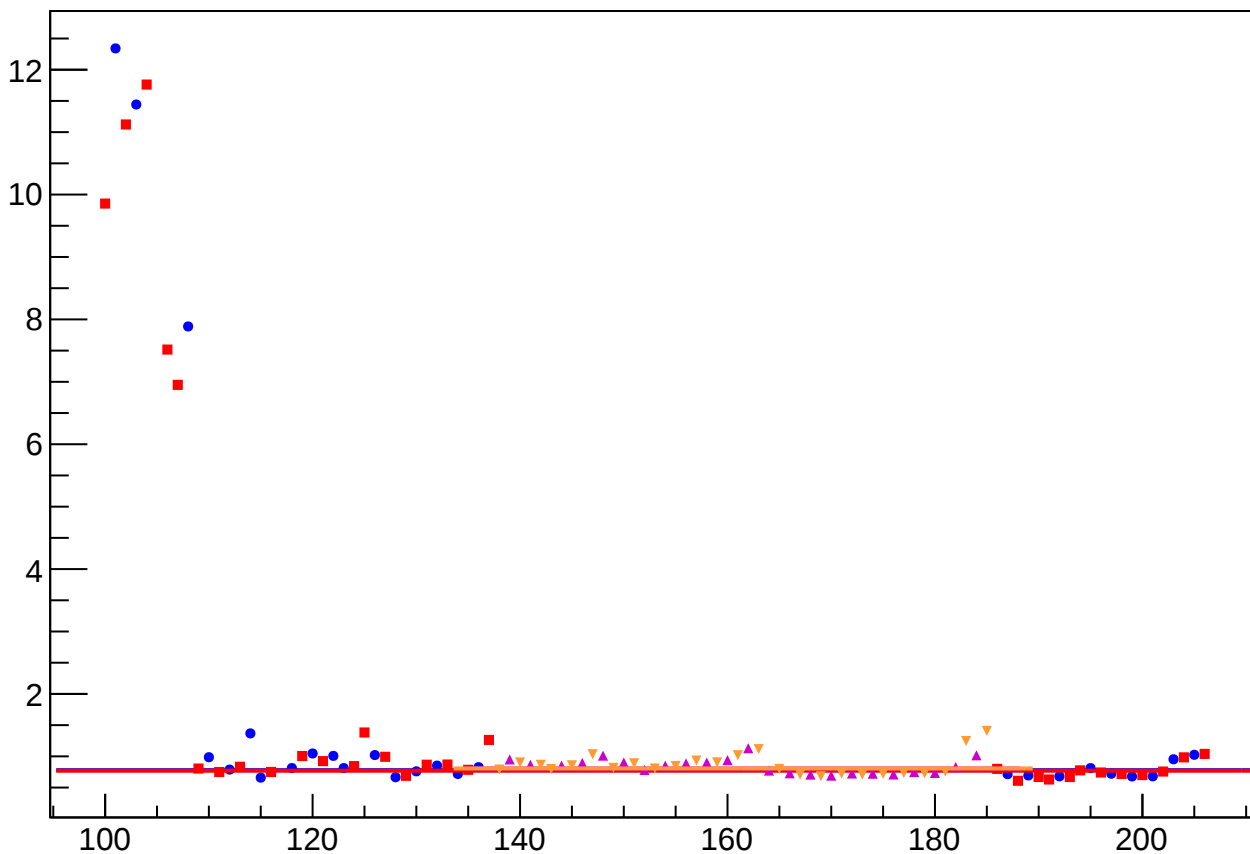
Right: 154.704 $\pm$ 0.000 χ^2 /NDF: 60695741081.3/56

In: 141.671 $\pm$ 0.000 χ^2 /NDF: 33952677428.3/48

Out: 143.498 $\pm$ 0.000 χ^2 /NDF: 43733494872.7/55

All: 142.632 $\pm$ 0.000 χ^2 /NDF: 77752628370.0

yield_bcm0l02_rms vs Slug, Sign Corrected



Right In: 0.778 $\pm$ 0.000 χ^2 /NDF: 2948776.0/25

Left Out: 0.806 $\pm$ 0.000 χ^2 /NDF:690578.5/24

Right Out: 0.771 $\pm$ 0.000 χ^2 /NDF: 3297804.1/30

Left In: 0.805 $\pm$ 0.000 χ^2 /NDF:480510.8/22

Left: 0.805 $\pm$ 0.000 χ^2 /NDF: 1171131.4/47

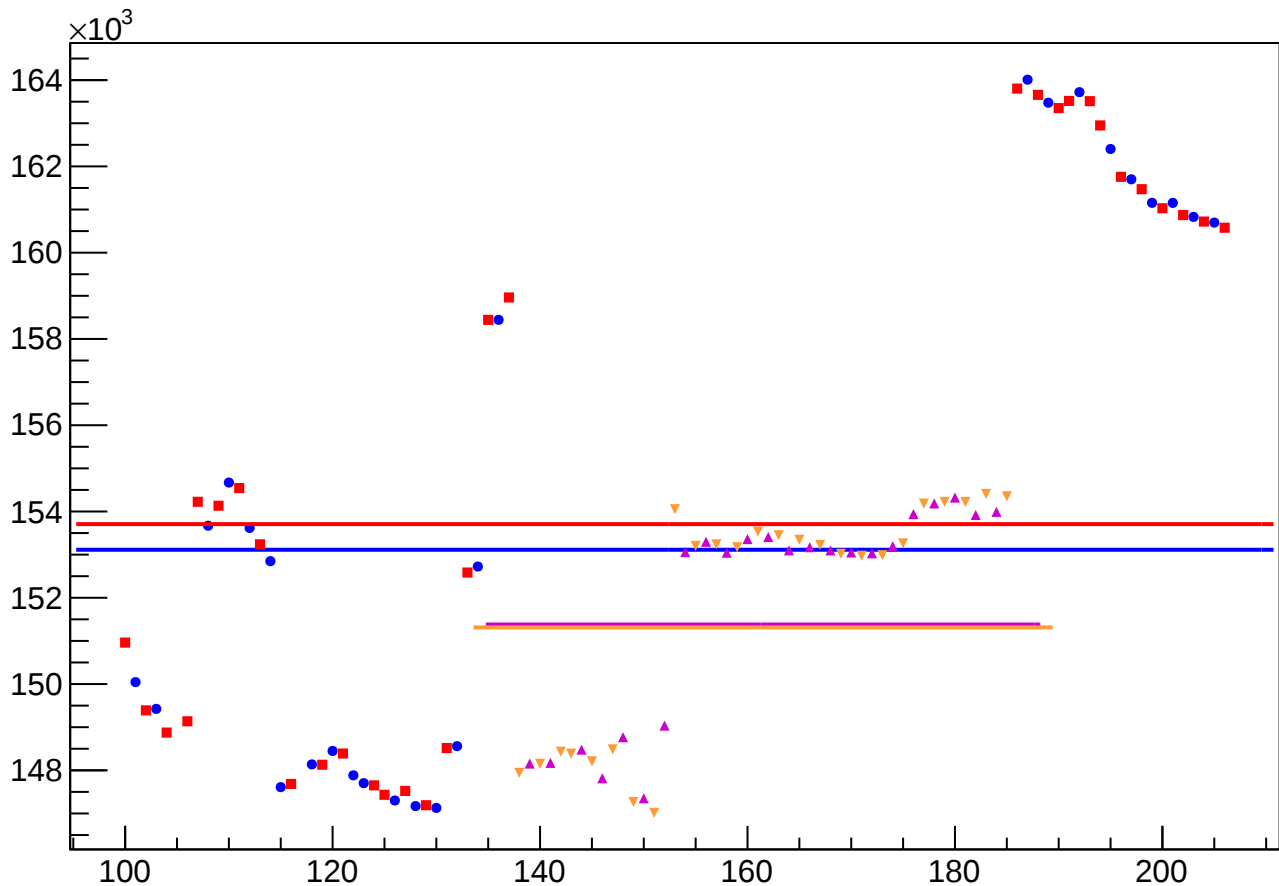
Right: 0.774 $\pm$ 0.000 χ^2 /NDF: 6247582.7/56

In: 0.794 $\pm$ 0.000 χ^2 /NDF:3441964.5/48

Out: 0.791 $\pm$ 0.000 χ^2 /NDF:4014480.7/55

All: 0.792 $\pm$ 0.000 χ^2 /NDF: 7456955.5/104

yield_bpm0i01WS_mean vs Slug, Sign Corrected



Right In: 153113.194+/-0.056

χ^2/NDF : 10269996615.6/25

Left: 151345.082+/-0.035

χ^2/NDF : 5518562148.3/4

Left Out: 151313.284+/-0.049

χ^2/NDF : 3153768134.8/24

Right: 153430.737+/-0.038

χ^2/NDF : 21911665902.8/4

Right Out: 153707.609+/-0.052

χ^2/NDF : 11581228648.1/30

In: 152170.890+/-0.038

χ^2/NDF : 13156789467.0/4

Out: 152427.517+/-0.036

χ^2/NDF : 15860599181.7/4

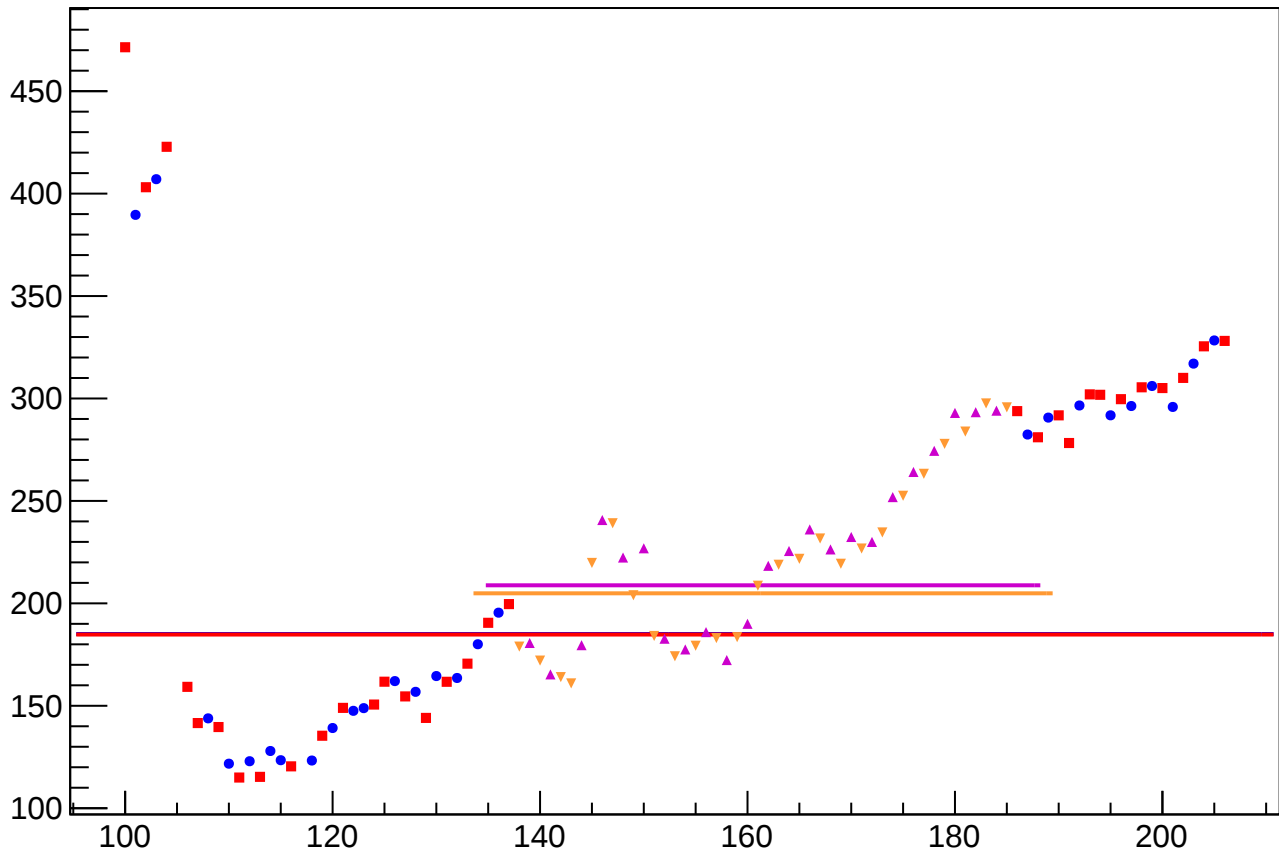
Left In: 151380.236+/-0.051

χ^2/NDF : 2363895785.3/22

All: 152306.718+/-0.026

χ^2/NDF : 290418529/4

yield_bpm0i01WS_rms vs Slug, Sign Corrected



Right In: 185.034 $\pm$ 0.040 χ^2 /NDF: 3579972.1/25

Left Out: 204.900 $\pm$ 0.034 χ^2 /NDF: 1056380.8/24

Right Out: 184.783 $\pm$ 0.037 χ^2 /NDF: 4392464.4/30

Left In: 208.813 $\pm$ 0.036 χ^2 /NDF: 1001936.6/22

Left: 206.758 $\pm$ 0.025 χ^2 /NDF: 2064453.9/47

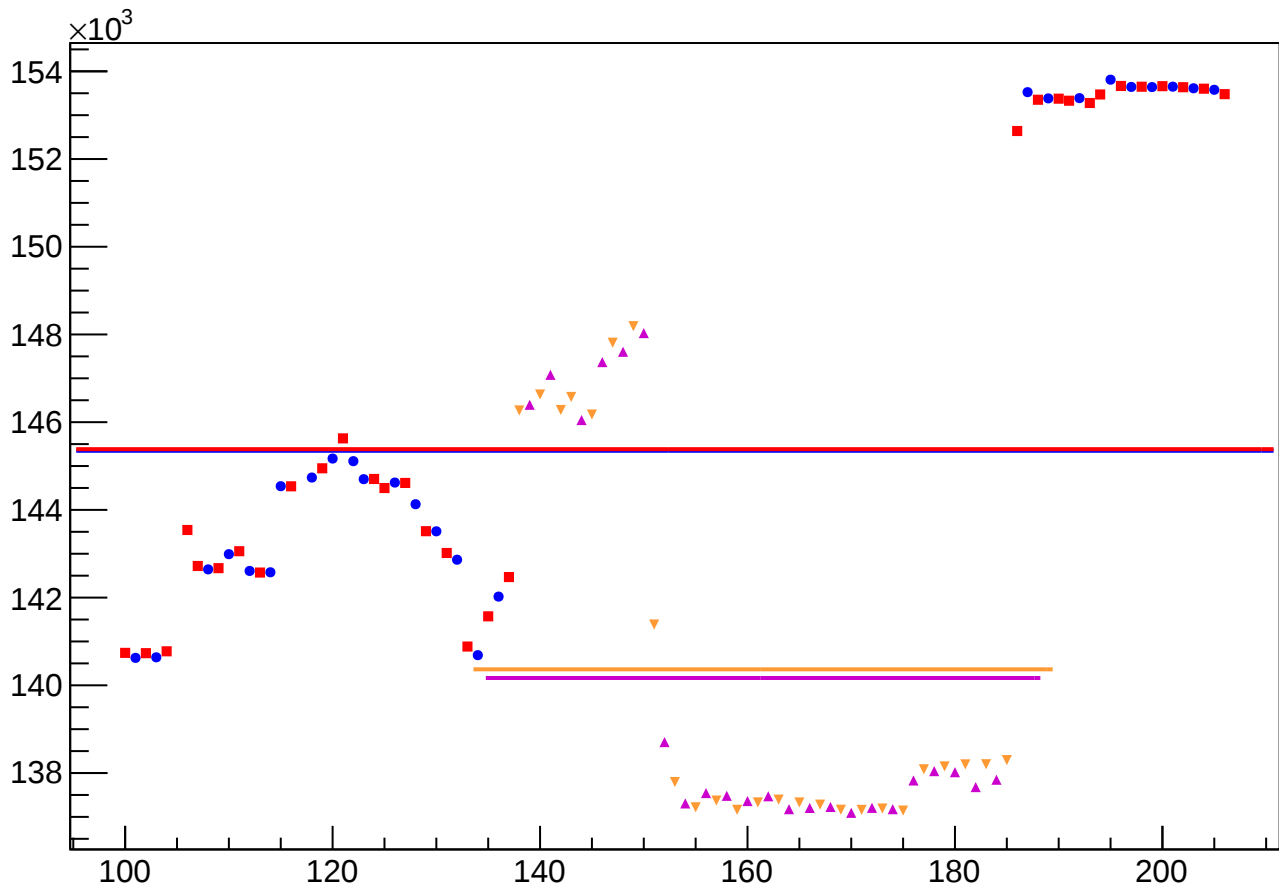
Right: 184.900 $\pm$ 0.027 χ^2 /NDF: 7972458.1/56

In: 197.964 $\pm$ 0.027 χ^2 /NDF: 4778802.0/48

Out: 195.538 $\pm$ 0.025 χ^2 /NDF: 5607750.2/55

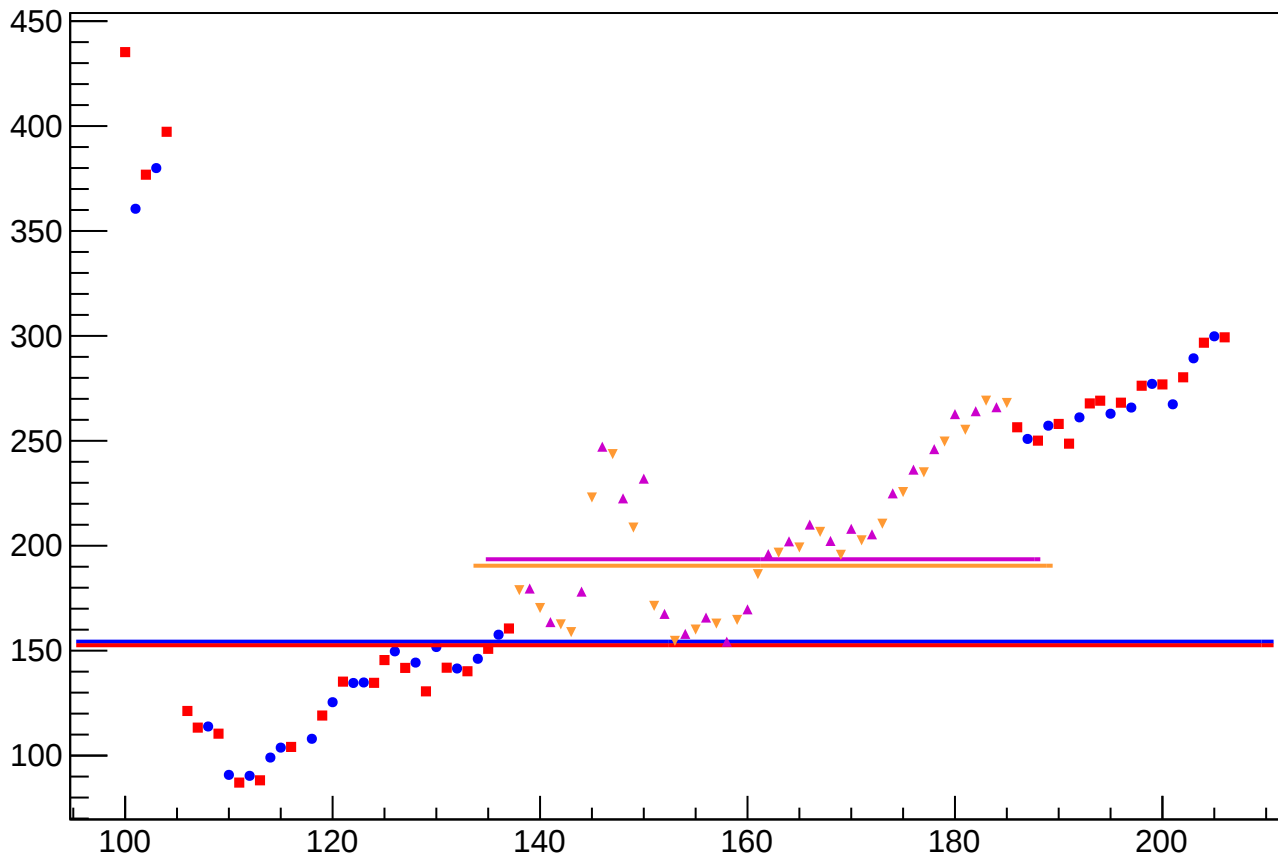
All: 196.680 $\pm$ 0.018 χ^2 /NDF: 10390923.6/10

yield_bpm0i01aWS_mean vs Slug, Sign Corrected



Right In: 145347.754 $\pm$ 0.047	χ^2 /NDF: 7706479699.7/25	Left: 140270.460 $\pm$ 0.033	χ^2 /NDF: 16714620354.4
Left Out: 140364.444 $\pm$ 0.045	χ^2 /NDF: 8677078677.7/24	Right: 145367.658 $\pm$ 0.032	χ^2 /NDF: 17182589169.6
Right Out: 145384.581 $\pm$ 0.044	χ^2 /NDF: 9475783889.2/30	In: 142757.393 $\pm$ 0.034	χ^2 /NDF: 21695743821.5/4
Left In: 140166.971 $\pm$ 0.047	χ^2 /NDF: 8028464654.6/22	Out: 142957.309 $\pm$ 0.031	χ^2 /NDF: 24518946332.1/4
		All: 142863.833 $\pm$ 0.023	χ^2 /NDF: 462335927.7

yield_bpm0i01aWS_rms vs Slug, Sign Corrected



Right In: 154.295+/-0.034 χ^2/NDF : 4372770.8/25

Left Out: 190.486+/-0.032 χ^2/NDF :950233.2/24

Right Out: 152.577+/-0.031 χ^2/NDF : 5357075.4/30

Left In: 193.558+/-0.034 χ^2/NDF :963675.0/22

Left: 191.948+/-0.023 χ^2/NDF : 1918302.4/47

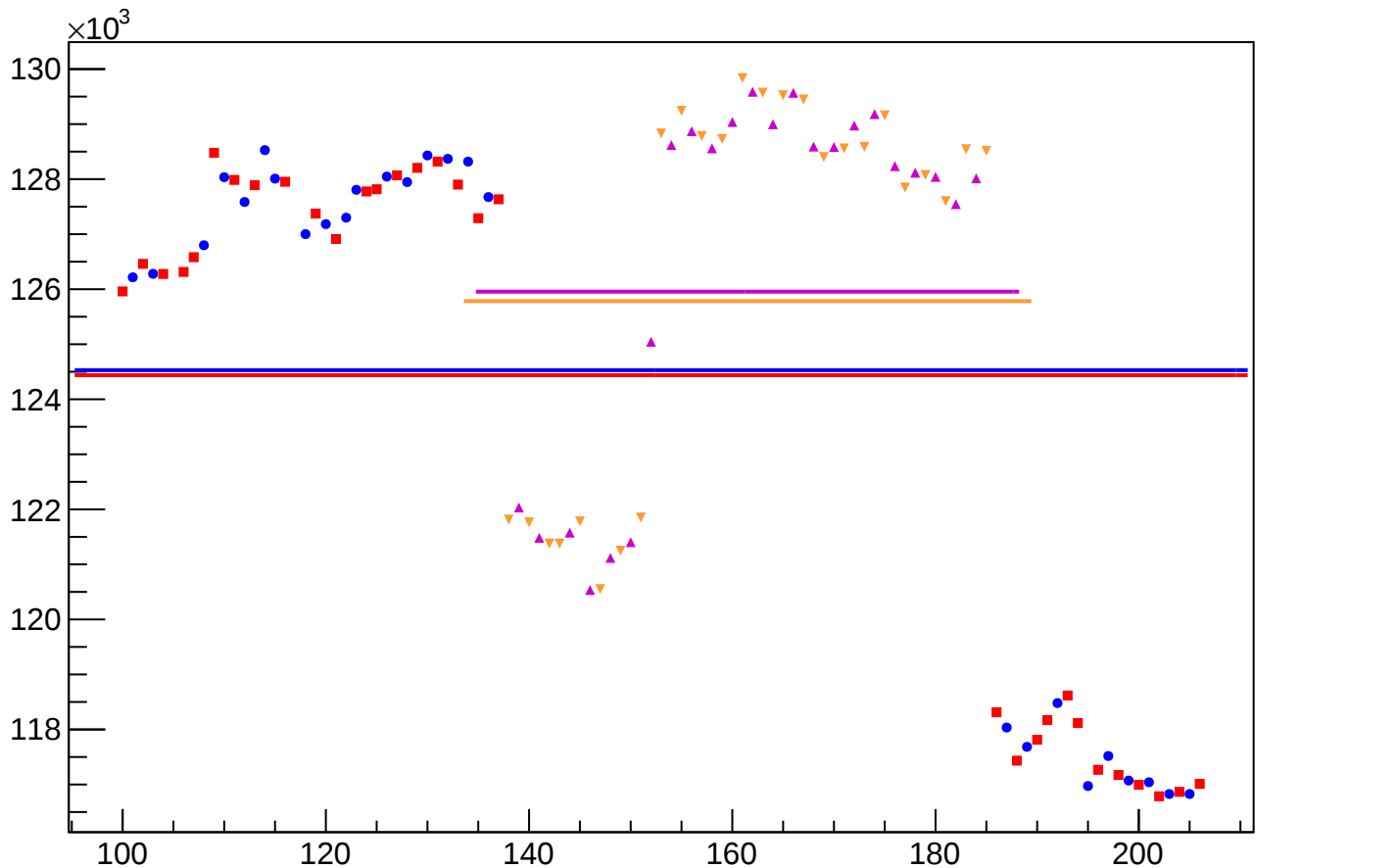
Right: 153.366+/-0.023 χ^2/NDF : 9731263.4/56

In: 173.926+/-0.024 χ^2/NDF :6021169.8/48

Out: 170.906+/-0.022 χ^2/NDF :7033340.3/55

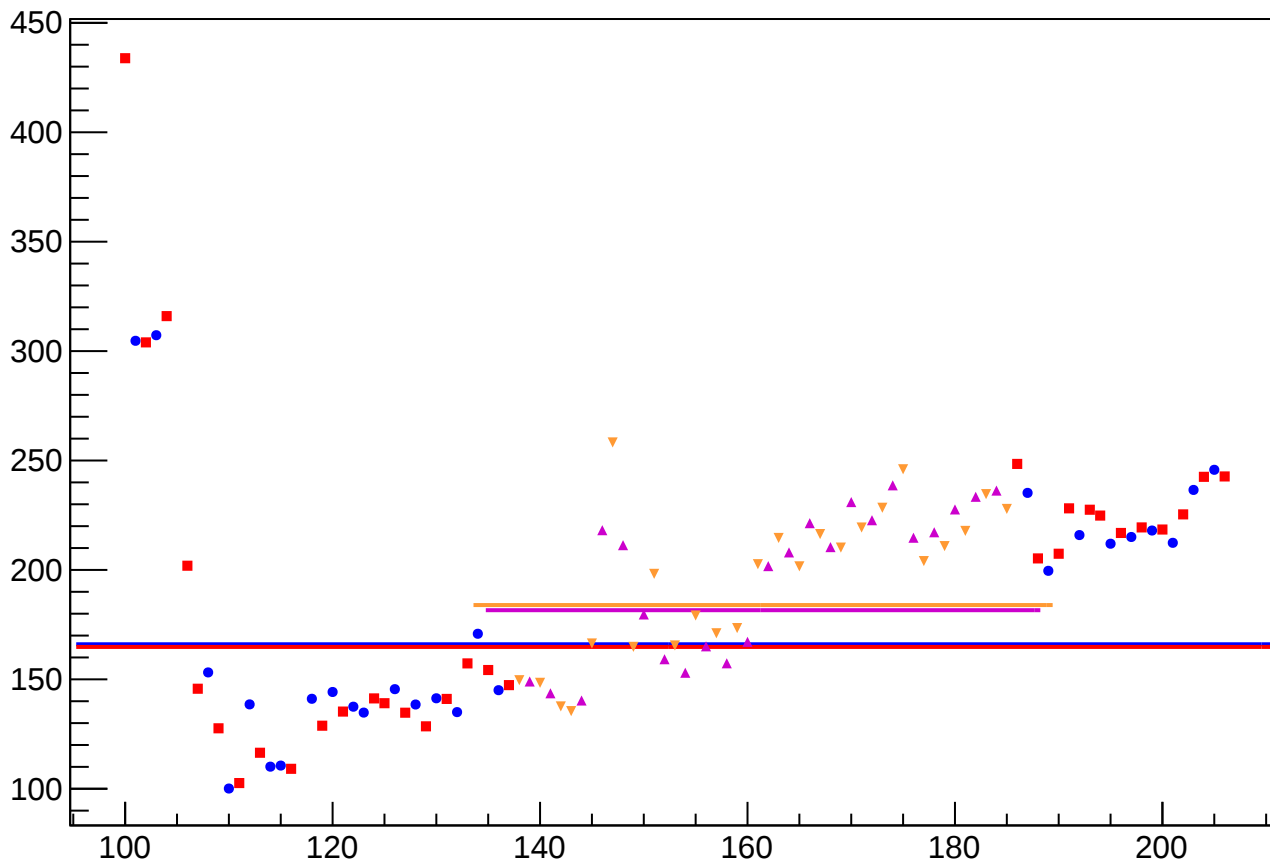
All: 172.318+/-0.016 χ^2/NDF : 13063138.3/10

yield_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: 124529.529 $\pm$ 0.048	χ^2 /NDF: 9861906570.7/25	Left: 125867.639 $\pm$ 0.031	χ^2 /NDF: 12541428458.9/25
Left Out: 125782.764 $\pm$ 0.044	χ^2 /NDF: 6729761889.8/24	Right: 124480.495 $\pm$ 0.033	χ^2 /NDF: 21357020781.5/24
Right Out: 124438.251 $\pm$ 0.045	χ^2 /NDF: 11493207814.5/30	In: 125298.271 $\pm$ 0.033	χ^2 /NDF: 16132970594.5/30
Left In: 125955.637 $\pm$ 0.045	χ^2 /NDF: 5804088930.1/22	Out: 125125.166 $\pm$ 0.031	χ^2 /NDF: 18679587824.0/22
		All: 125207.836 $\pm$ 0.023	χ^2 /NDF: 348270240.0/23

yield_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 166.024 $\pm$ 0.034 χ^2 /NDF: 1943898.6/25

Left Out: 183.947 $\pm$ 0.031 χ^2 /NDF: 1123194.0/24

Right Out: 164.810 $\pm$ 0.032 χ^2 /NDF: 2623111.6/30

Left In: 181.596 $\pm$ 0.032 χ^2 /NDF: 1103524.3/22

Left: 182.792 $\pm$ 0.022 χ^2 /NDF: 2229521.2/47

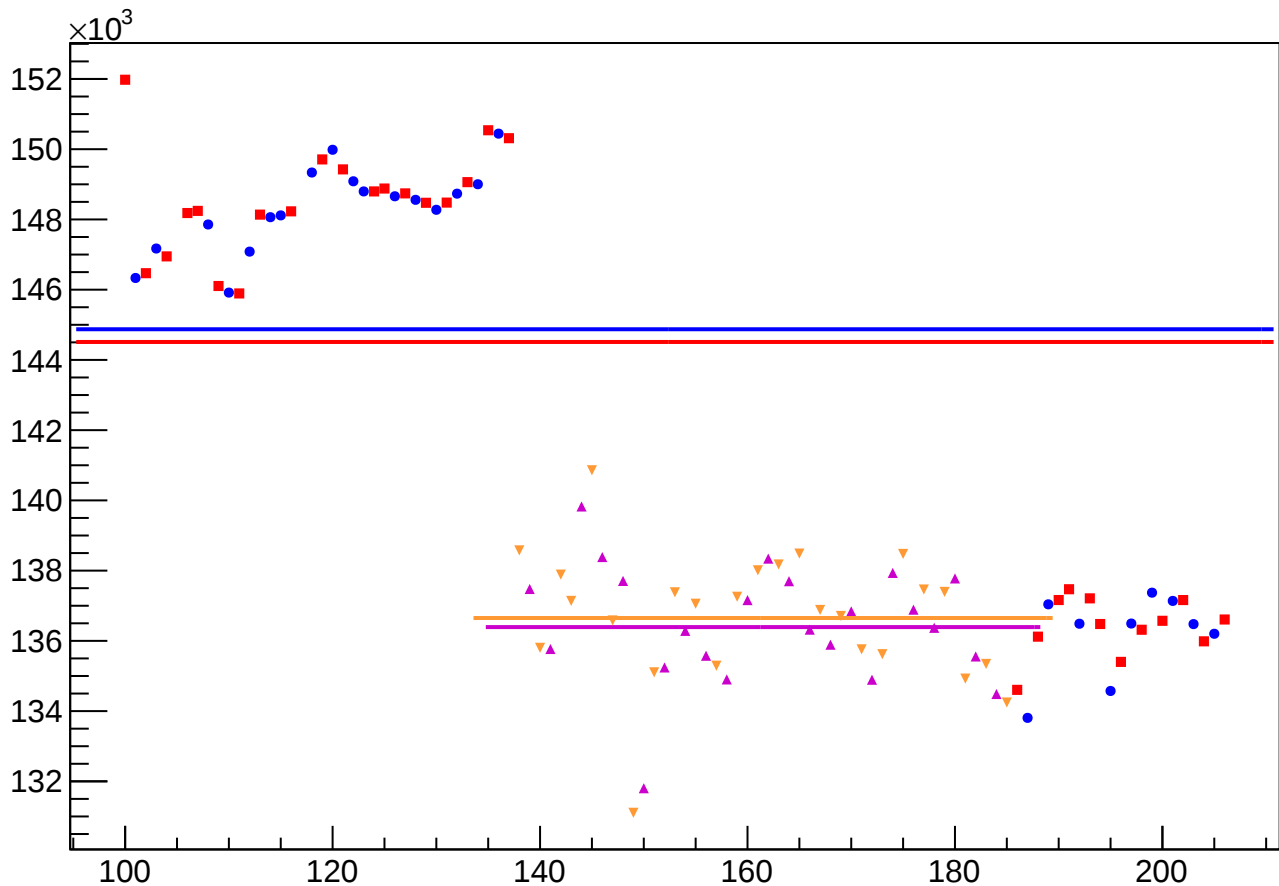
Right: 165.372 $\pm$ 0.023 χ^2 /NDF: 4567685.2/56

In: 174.418 $\pm$ 0.023 χ^2 /NDF: 3158770.1/48

Out: 174.587 $\pm$ 0.022 χ^2 /NDF: 3931317.4/55

All: 174.506 $\pm$ 0.016 χ^2 /NDF: 7090115.0/104

yield_bpm0l02WS_mean vs Slug, Sign Corrected



Right In: 144872.989 $\pm$ 0.069

χ^2 /NDF: 6831532863.0/25

Left: 136524.219 $\pm$ 0.046

χ^2 /NDF: 1640486942.5/4

Left Out: 136650.935 $\pm$ 0.065

χ^2 /NDF: 930649595.5/24

Right: 144676.635 $\pm$ 0.047

χ^2 /NDF: 14909927149.9

Right Out: 144511.060 $\pm$ 0.063

χ^2 /NDF: 8063376501.1/30

In: 140454.967 $\pm$ 0.048

χ^2 /NDF: 15451355506.2/4

Out: 140670.561 $\pm$ 0.045

χ^2 /NDF: 16558913692.4

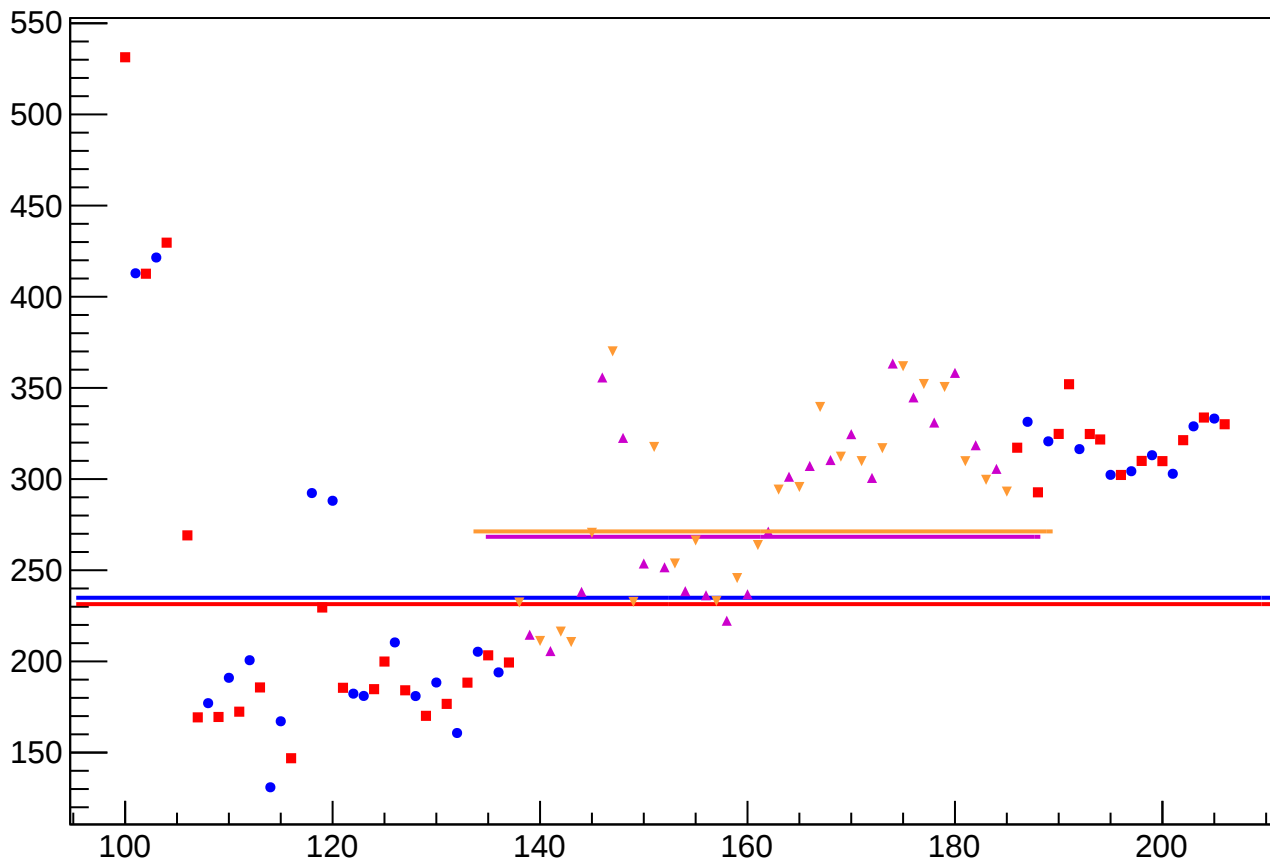
Left In: 136392.188 $\pm$ 0.066

χ^2 /NDF: 701986841.4/22

All: 140568.427 $\pm$ 0.033

χ^2 /NDF: 320210595

yield_bpm0l02WS_rms vs Slug, Sign Corrected



Right In: 234.909 $\pm$ 0.049 χ^2 /NDF: 2108511.1/25

Left Out: 271.295 $\pm$ 0.046 χ^2 /NDF:1064485.7/24

Right Out: 231.414 $\pm$ 0.045 χ^2 /NDF: 2548681.8/30

Left In: 268.344 $\pm$ 0.047 χ^2 /NDF:1077364.0/22

Left: 269.850 $\pm$ 0.033 χ^2 /NDF: 2143892.9/47

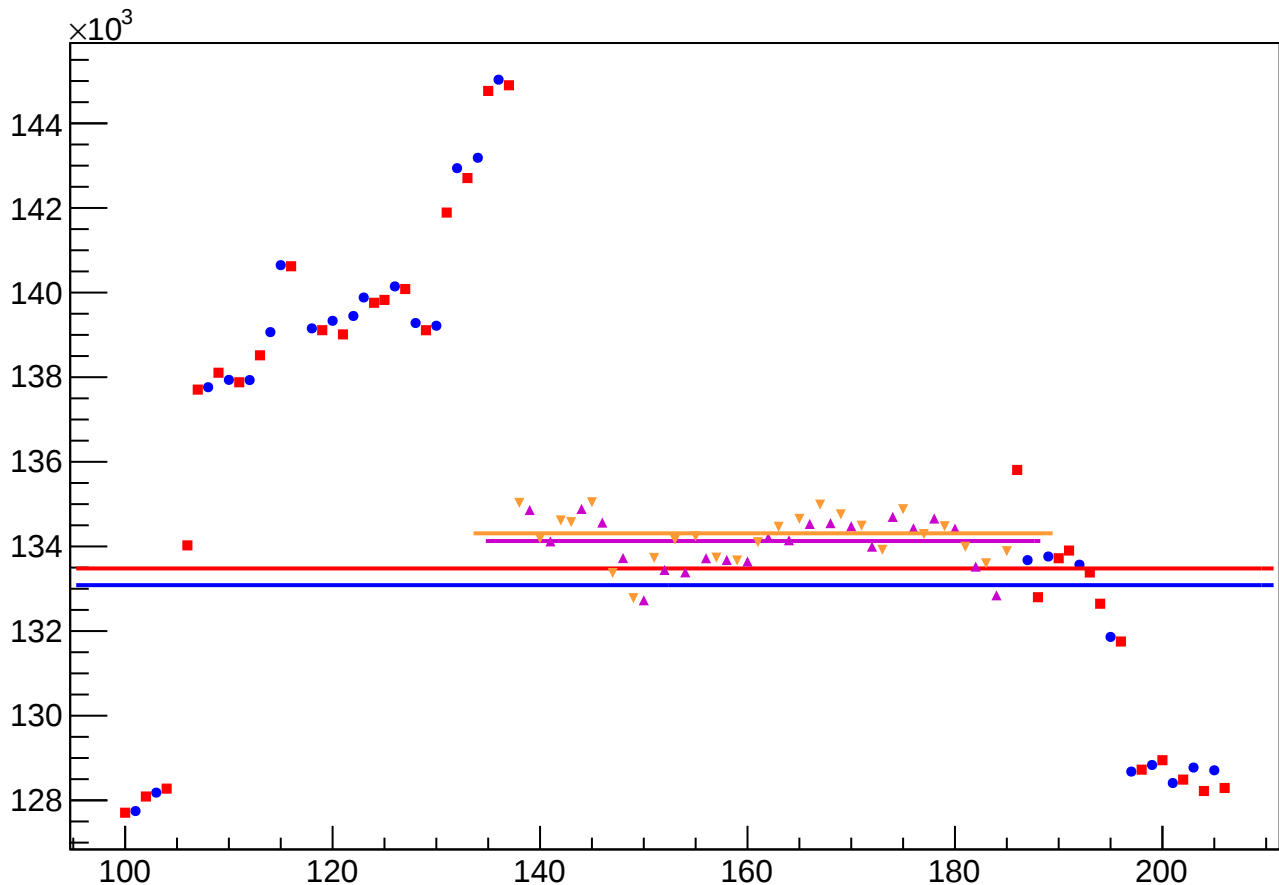
Right: 233.012 $\pm$ 0.033 χ^2 /NDF: 4659993.6/56

In: 252.326 $\pm$ 0.034 χ^2 /NDF:3432005.1/48

Out: 250.900 $\pm$ 0.032 χ^2 /NDF:4002676.2/55

All: 251.576 $\pm$ 0.023 χ^2 /NDF: 7435625.9/104

yield_bpm0l03WS_mean vs Slug, Sign Corrected



Right In: 133085.272 $\pm$ 0.114

χ^2/NDF : 2435851591.2/25

Left Out: 134310.250 $\pm$ 0.139

χ^2/NDF : 15518632.9/24

Right Out: 133479.963 $\pm$ 0.116

χ^2/NDF : 1610732647.5/30

Left In: 134128.172 $\pm$ 0.142

χ^2/NDF : 15533736.2/22

Left: 134221.438 $\pm$ 0.099

χ^2/NDF : 31894688.0/47

Right: 133278.958 $\pm$ 0.081

χ^2/NDF : 4052463939.5/

In: 133494.156 $\pm$ 0.089

χ^2/NDF : 2484182911.1/48

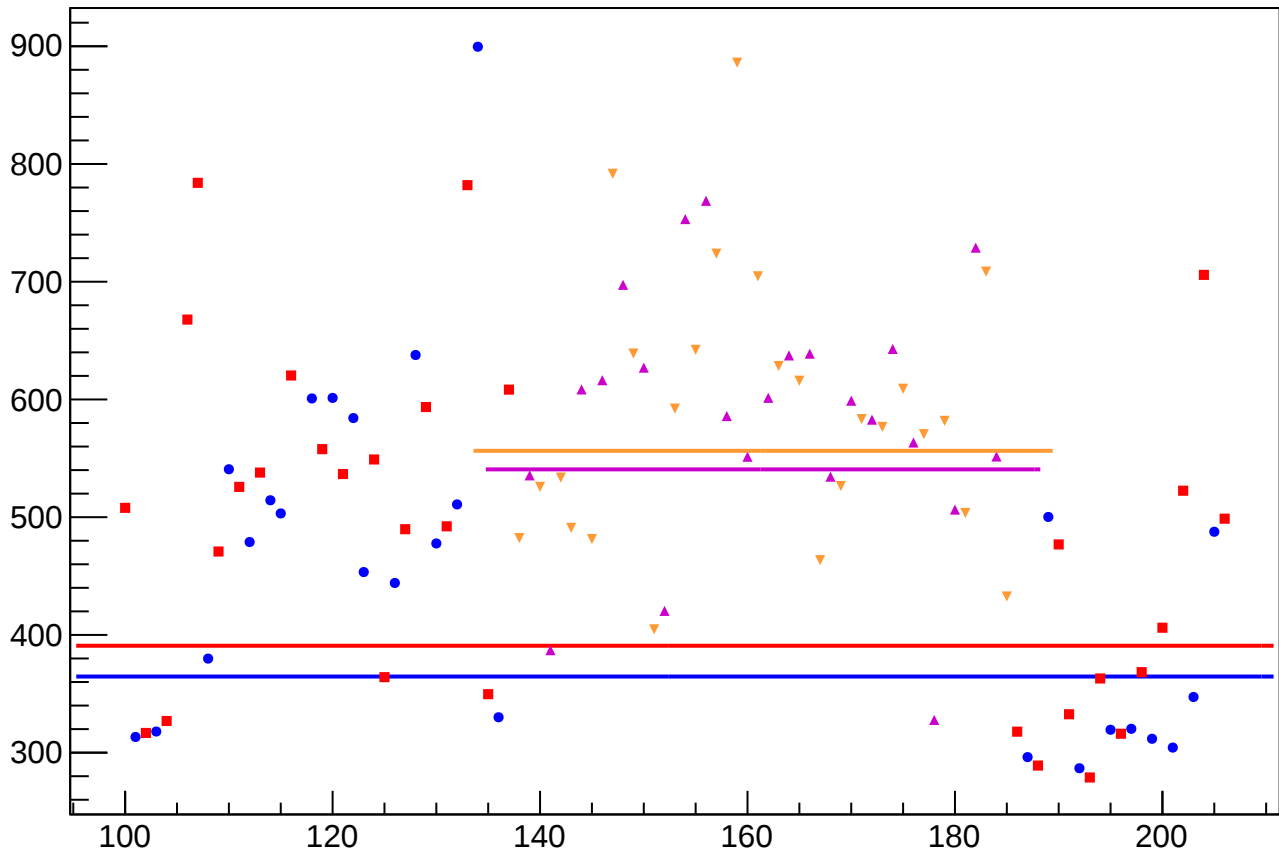
Out: 133822.661 $\pm$ 0.089

χ^2/NDF : 1647339012.9/5

All: 133658.205 $\pm$ 0.063

χ^2/NDF : 413833990

yield_bpm0l03WS_rms vs Slug, Sign Corrected



Right In: 364.667 ± 0.081 $\chi^2/\text{NDF}: 1336787.4/25$

Left Out: 556.381 ± 0.098 $\chi^2/\text{NDF}: 1002064.0/24$

Right Out: 390.811 ± 0.082 $\chi^2/\text{NDF}: 1898221.0/30$

Left In: 540.607 ± 0.100 $\chi^2/\text{NDF}: 1409015.2/22$

Left: 548.687 ± 0.070 $\chi^2/\text{NDF}: 2423723.9/47$

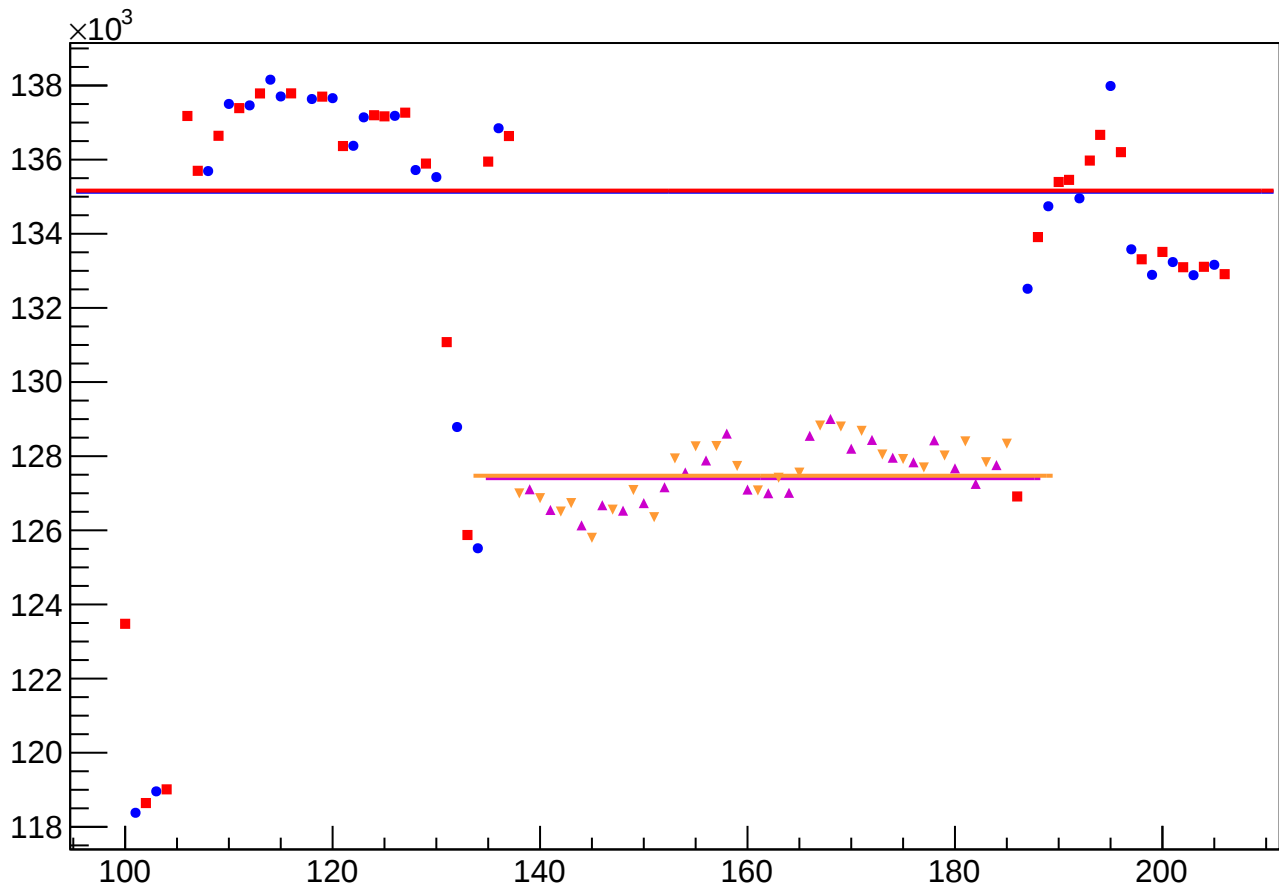
Right: 377.497 ± 0.058 $\chi^2/\text{NDF}: 3286601.0/56$

In: 433.647 ± 0.063 $\chi^2/\text{NDF}: 4612669.4/48$

Out: 459.149 ± 0.063 $\chi^2/\text{NDF}: 4577435.0/55$

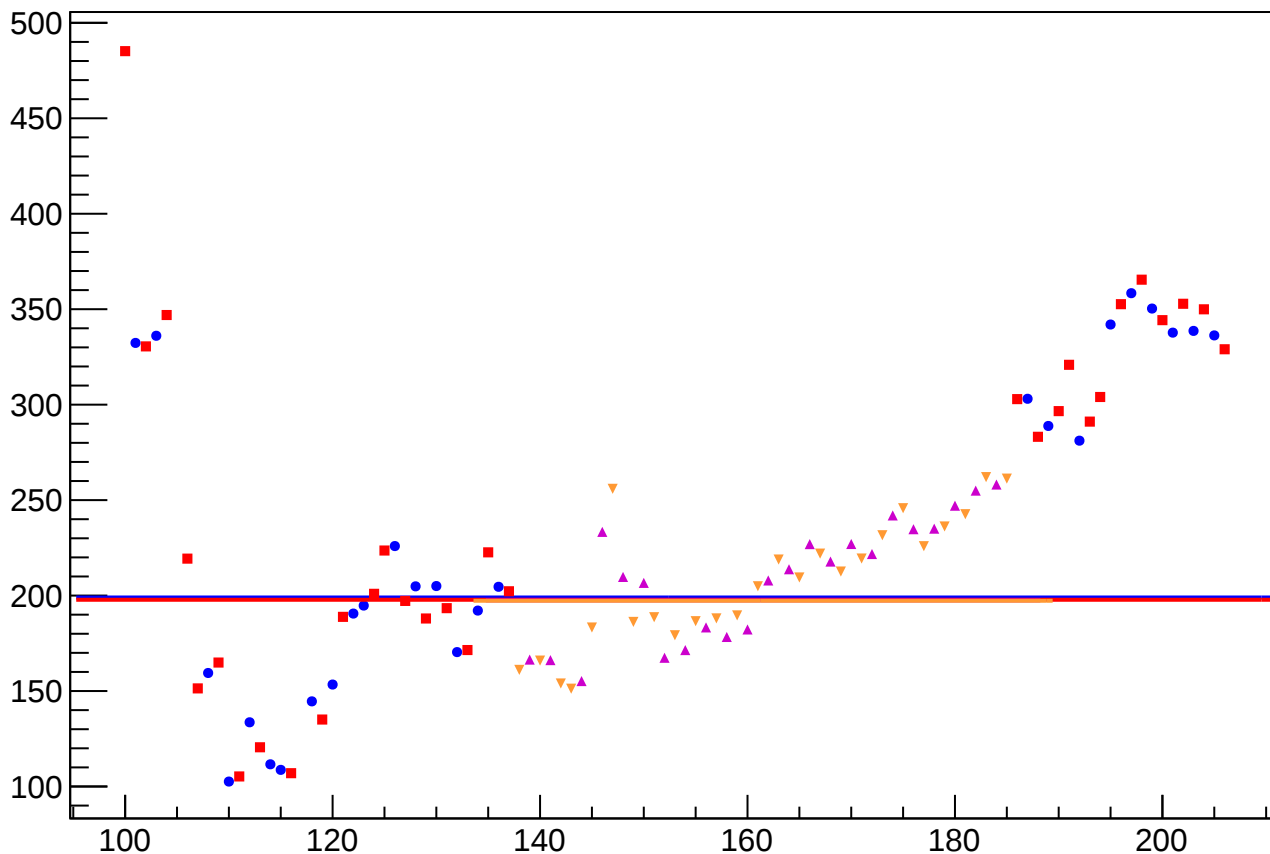
All: 446.382 ± 0.044 $\chi^2/\text{NDF}: 9272283.4/104$

yield_bpm0l04WS_mean vs Slug, Sign Corrected



Right In: 135133.068 $\pm$ 0.061	χ^2 /NDF: 4796943839.6/25	Left: 127440.757 $\pm$ 0.034	χ^2 /NDF: 574486725.7/47
Left Out: 127472.525 $\pm$ 0.047	χ^2 /NDF: 303609315.6/24	Right: 135149.936 $\pm$ 0.041	χ^2 /NDF: 10010751044.4/25
Right Out: 135164.447 $\pm$ 0.056	χ^2 /NDF: 5213662704.1/30	In: 130418.001 $\pm$ 0.038	χ^2 /NDF: 15013054144.6/47
Left In: 127406.911 $\pm$ 0.048	χ^2 /NDF: 269927988.0/22	Out: 130631.108 $\pm$ 0.036	χ^2 /NDF: 16583534134.5/25
		All: 130529.782 $\pm$ 0.026	χ^2 /NDF: 316132764.0/25

yield_bpm0l04WS_rms vs Slug, Sign Corrected



Right In: 198.993 $\pm$ 0.043 χ^2 /NDF: 3710821.3/25

Left Out: 197.289 $\pm$ 0.033 χ^2 /NDF: 852024.1/24

Right Out: 197.803 $\pm$ 0.040 χ^2 /NDF: 4553246.1/30

Left In: 197.471 $\pm$ 0.034 χ^2 /NDF: 791577.5/22

Left: 197.377 $\pm$ 0.024 χ^2 /NDF: 1643616.2/47

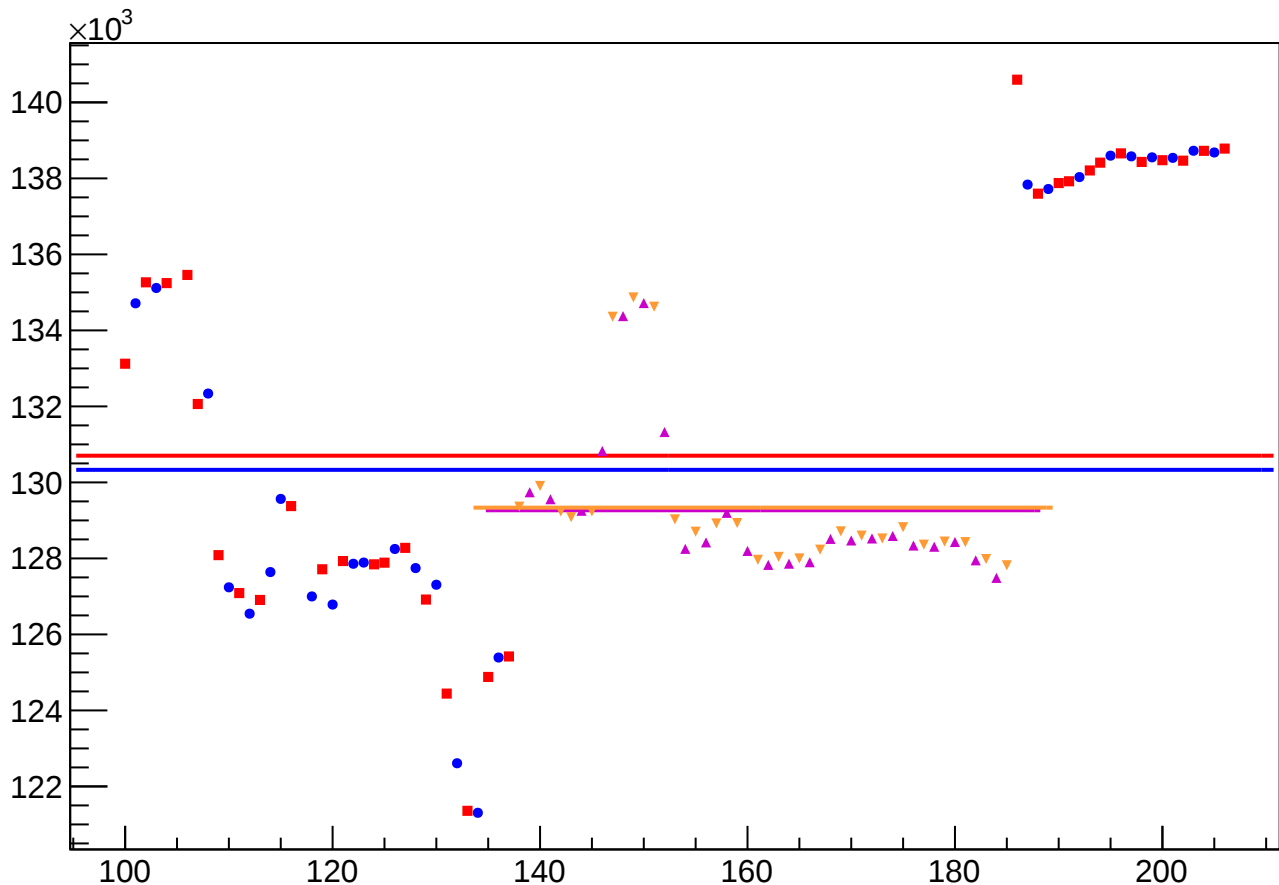
Right: 198.354 $\pm$ 0.029 χ^2 /NDF: 8264483.1/56

In: 198.064 $\pm$ 0.027 χ^2 /NDF: 4503171.2/48

Out: 197.500 $\pm$ 0.025 χ^2 /NDF: 5405369.0/55

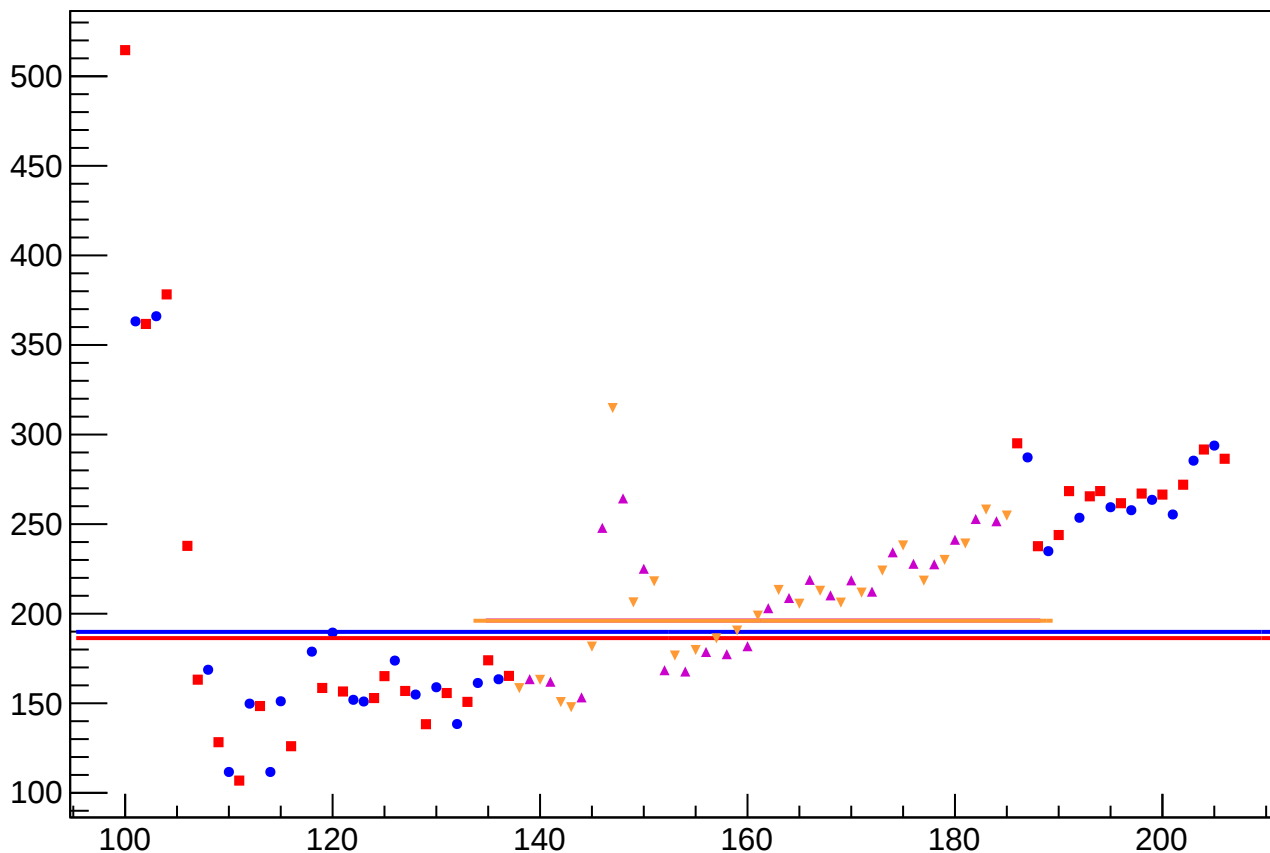
All: 197.769 $\pm$ 0.018 χ^2 /NDF: 9908774.0/104

yield_bpm0l05WS_mean vs Slug, Sign Corrected



Right In: 130330.665 $\pm$ 0.056	χ^2 /NDF: 10049400577.1/25	Left: 129302.466 $\pm$ 0.034	χ^2 /NDF: 2665755007.2/4
Left Out: 129335.946 $\pm$ 0.047	χ^2 /NDF: 1450933621.0/24	Right: 130532.359 $\pm$ 0.038	χ^2 /NDF: 21668064798.1/24
Right Out: 130702.829 $\pm$ 0.052	χ^2 /NDF: 11594840383.2/30	In: 129717.891 $\pm$ 0.037	χ^2 /NDF: 11470047574.9/4
Left In: 129266.909 $\pm$ 0.048	χ^2 /NDF: 1213762773.1/22	Out: 129951.756 $\pm$ 0.035	χ^2 /NDF: 13431289116.8/22
		All: 129841.097 $\pm$ 0.025	χ^2 /NDF: 249229073.1/22

yield_bpm0l05WS_rms vs Slug, Sign Corrected



Right In: 189.853 $\pm$ 0.040 χ^2 /NDF: 2346530.3/25

Left Out: 196.077 $\pm$ 0.033 χ^2 /NDF: 975710.9/24

Right Out: 186.377 $\pm$ 0.036 χ^2 /NDF: 3184950.9/30

Left In: 196.186 $\pm$ 0.034 χ^2 /NDF: 898058.0/22

Left: 196.130 $\pm$ 0.024 χ^2 /NDF: 1873774.2/47

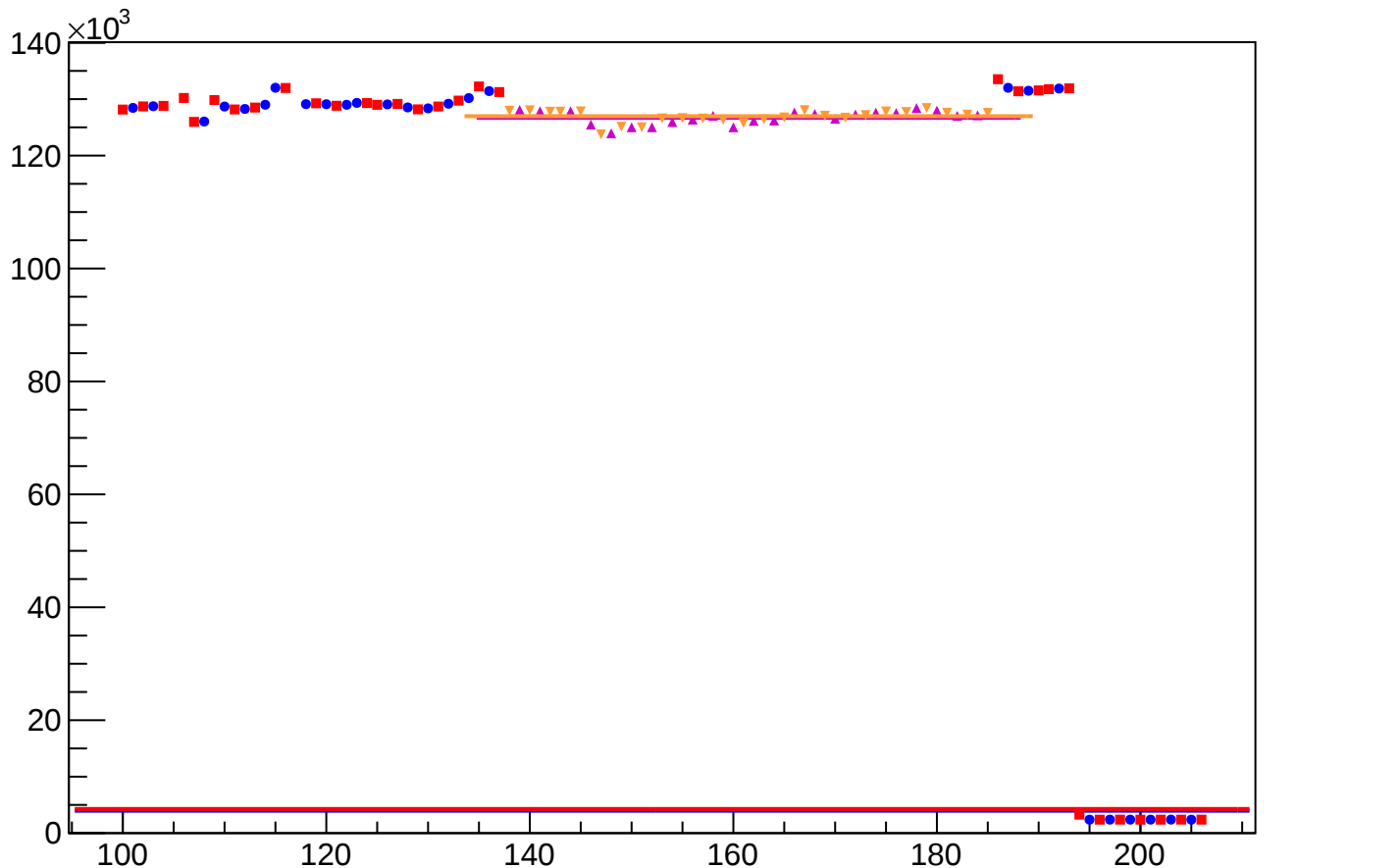
Right: 187.969 $\pm$ 0.027 χ^2 /NDF: 5535639.0/56

In: 193.501 $\pm$ 0.026 χ^2 /NDF: 3259253.3/48

Out: 191.707 $\pm$ 0.024 χ^2 /NDF: 4199496.1/55

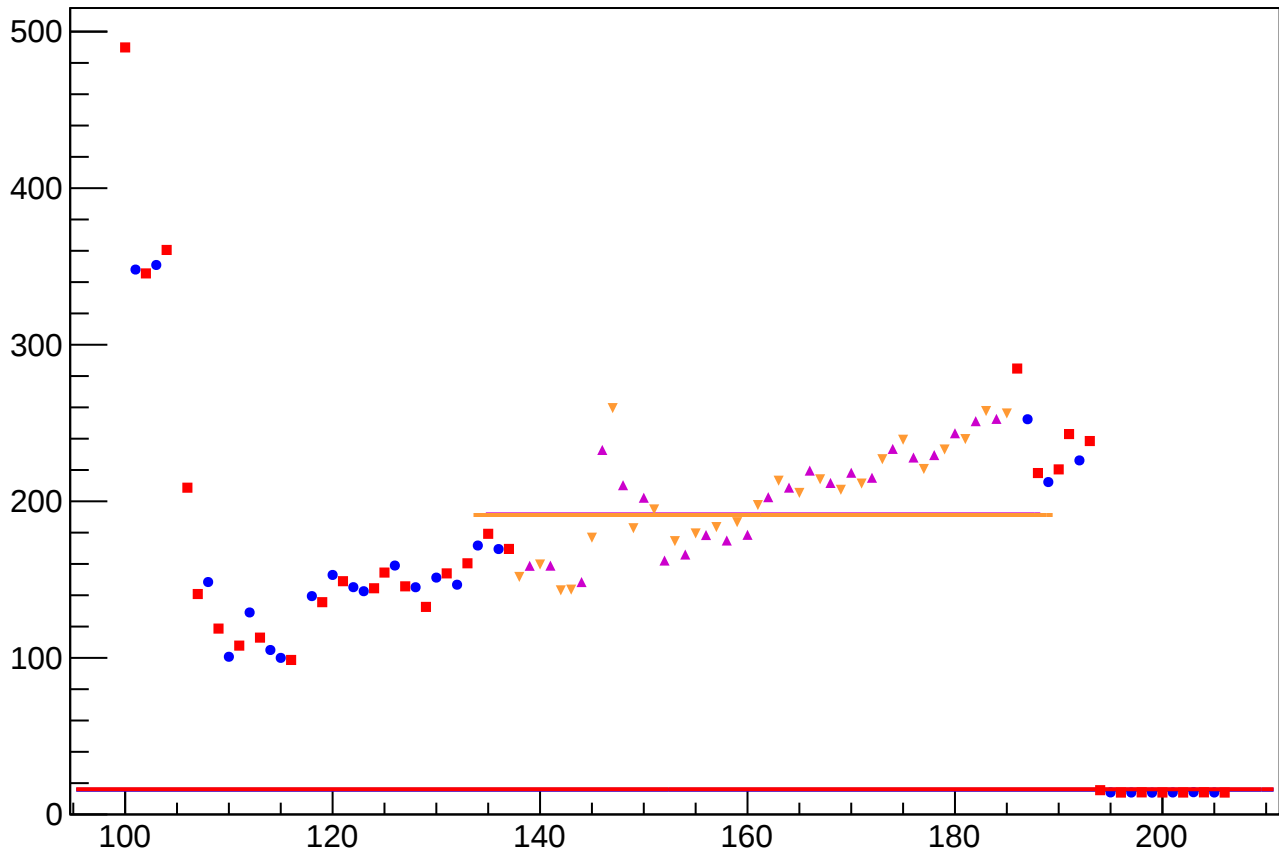
All: 192.556 $\pm$ 0.018 χ^2 /NDF: 7461288.8/104

yield_bpm0l06WS_mean vs Slug, Sign Corrected



Right In: 3969.499+/-0.006	χ^2/NDF : 4870229274996.6/25	Left: 126836.943+/-0.033	χ^2/NDF : 1211882944.2/24
Left Out: 126981.724+/-0.046	χ^2/NDF : 530573115.8/24	Right: 4128.692+/-0.004	χ^2/NDF : 10669978376801.0/24
Right Out: 4284.507+/-0.006	χ^2/NDF : 5798516629418.1/30	In: 6189.582+/-0.006	χ^2/NDF : 11566508393429.8/30
Left In: 126682.659+/-0.047	χ^2/NDF : 660415880.0/22	Out: 6598.004+/-0.006	χ^2/NDF : 12926724033579.0/30
		All: 6396.062+/-0.004	χ^2/NDF : 24495343228.0/100

yield_bpm0l06WS_rms vs Slug, Sign Corrected



Right In: 15.783+/-0.005 χ^2/NDF : 13257709.8/25

Left Out: 191.263+/-0.032 χ^2/NDF : 992566.2/24

Right Out: 16.106+/-0.004 χ^2/NDF : 15546858.4/30

Left In: 191.683+/-0.033 χ^2/NDF : 864384.9/22

Left: 191.466+/-0.023 χ^2/NDF : 1857033.4/47

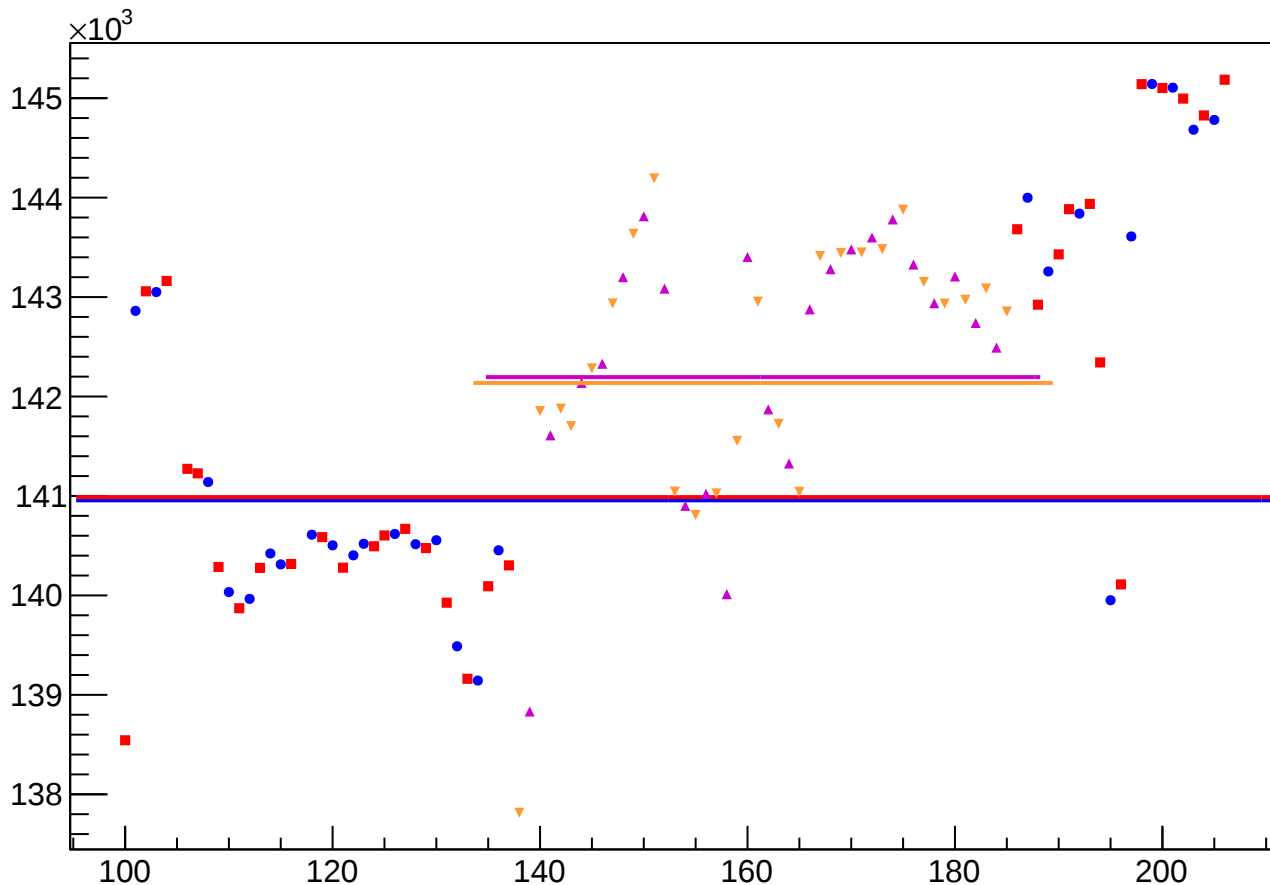
Right: 15.946+/-0.003 χ^2/NDF : 28807155.4/56

In: 18.966+/-0.004 χ^2/NDF : 41636929.7/48

Out: 19.409+/-0.004 χ^2/NDF : 45590635.0/55

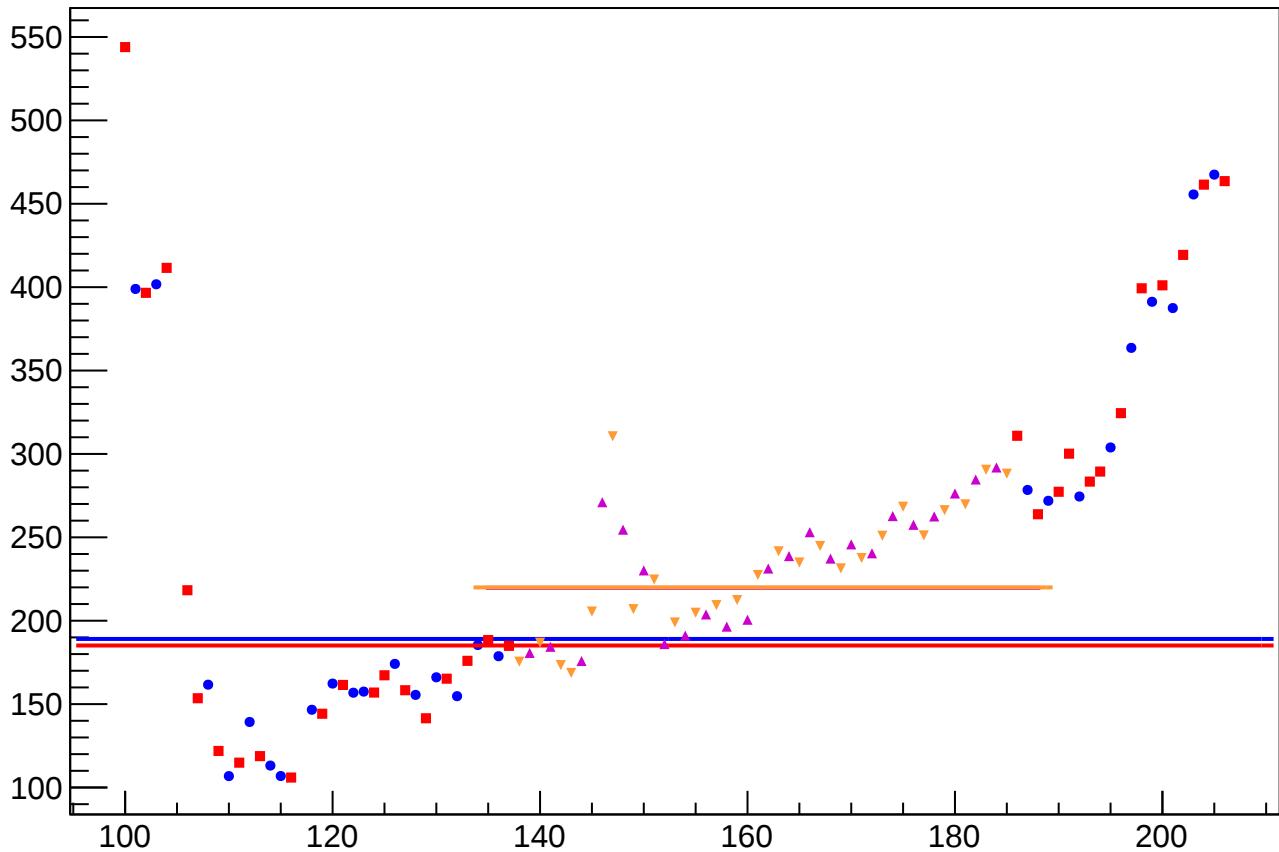
All: 19.190+/-0.003 χ^2/NDF : 87232532.8/104

yield_bpm0l07WS_mean vs Slug, Sign Corrected



Right In: 140956.064 $\pm$ 0.058	χ^2 /NDF: 653576070.8/25	Left: 142164.953 $\pm$ 0.038	χ^2 /NDF: 1460209902.9/4
Left Out: 142136.579 $\pm$ 0.052	χ^2 /NDF: 815573343.0/24	Right: 140973.800 $\pm$ 0.039	χ^2 /NDF: 1431043427.0/4
Right Out: 140988.696 $\pm$ 0.053	χ^2 /NDF: 777297496.9/30	In: 141625.253 $\pm$ 0.040	χ^2 /NDF: 1540929027.3/4
Left In: 142195.020 $\pm$ 0.054	χ^2 /NDF: 644030906.9/22	Out: 141575.328 $\pm$ 0.037	χ^2 /NDF: 1828175457.7/5
		All: 141598.879 $\pm$ 0.027	χ^2 /NDF: 336994478

yield_bpm0l07WS_rms vs Slug, Sign Corrected



Right In: 189.073+/-0.041 χ^2/NDF : 4491982.0/25

Left Out: 219.969+/-0.037 χ^2/NDF : 866616.3/24

Right Out: 185.145+/-0.038 χ^2/NDF : 5580733.8/30

Left In: 219.685+/-0.038 χ^2/NDF : 812745.1/22

Left: 219.831+/-0.027 χ^2/NDF : 1679390.1/47

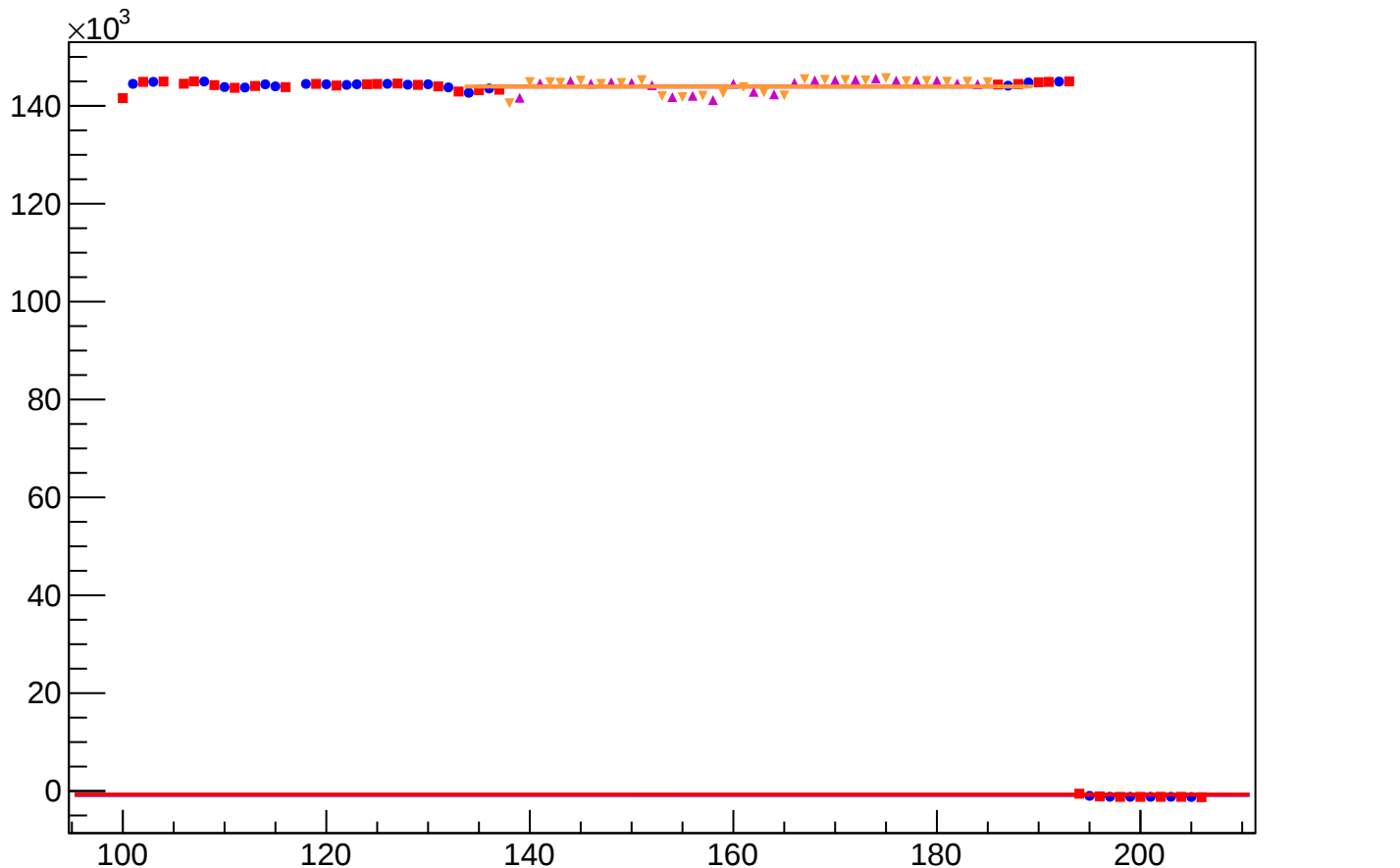
Right: 186.938+/-0.028 χ^2/NDF : 10077637.3/56

In: 205.607+/-0.028 χ^2/NDF : 5601804.3/48

Out: 202.942+/-0.026 χ^2/NDF : 6880480.0/55

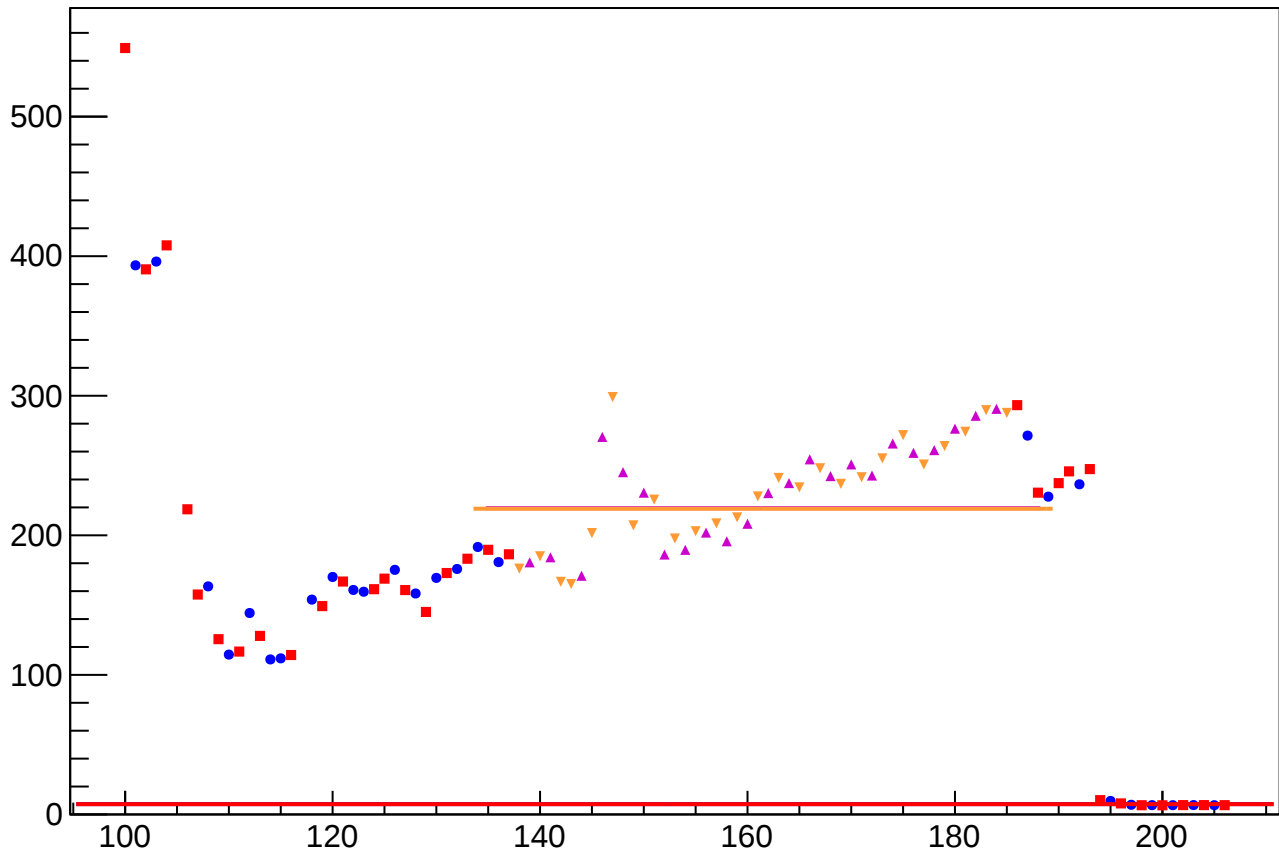
All: 204.199+/-0.019 χ^2/NDF : 12487072.4/100

yield_bpm0l08WS_mean vs Slug, Sign Corrected



Right In: -790.612 ± 0.003 $\chi^2/\text{NDF}: 5292633373259.6/25$
 Left Out: 143951.284 ± 0.052 $\chi^2/\text{NDF}: 864679545.2/24$
 Right Out: -741.038 ± 0.003 $\chi^2/\text{NDF}: 6398223513039.0/30$
 Left In: 143938.288 ± 0.054 $\chi^2/\text{NDF}: 719814685.6/22$
 Left: 143944.995 ± 0.037 $\chi^2/\text{NDF}: 1584524299.4/25$
 Right: -765.180 ± 0.002 $\chi^2/\text{NDF}: 11690978515051.0/25$
 In: -274.929 ± 0.003 $\chi^2/\text{NDF}: 12493326887429.1/25$
 Out: -219.130 ± 0.003 $\chi^2/\text{NDF}: 14073614876630.8/25$
 All: -246.303 ± 0.002 $\chi^2/\text{NDF}: 26567096410.0/25$

yield_bpm0l08WS_rms vs Slug, Sign Corrected



Right In: 7.413 ± 0.002 $\chi^2/\text{NDF}: 14899674.2/25$

Left Out: 219.050 ± 0.037 $\chi^2/\text{NDF}: 934417.6/24$

Right Out: 7.382 ± 0.002 $\chi^2/\text{NDF}: 17448110.6/30$

Left In: 219.426 ± 0.038 $\chi^2/\text{NDF}: 850089.5/22$

Left: 219.232 ± 0.026 $\chi^2/\text{NDF}: 1784557.4/47$

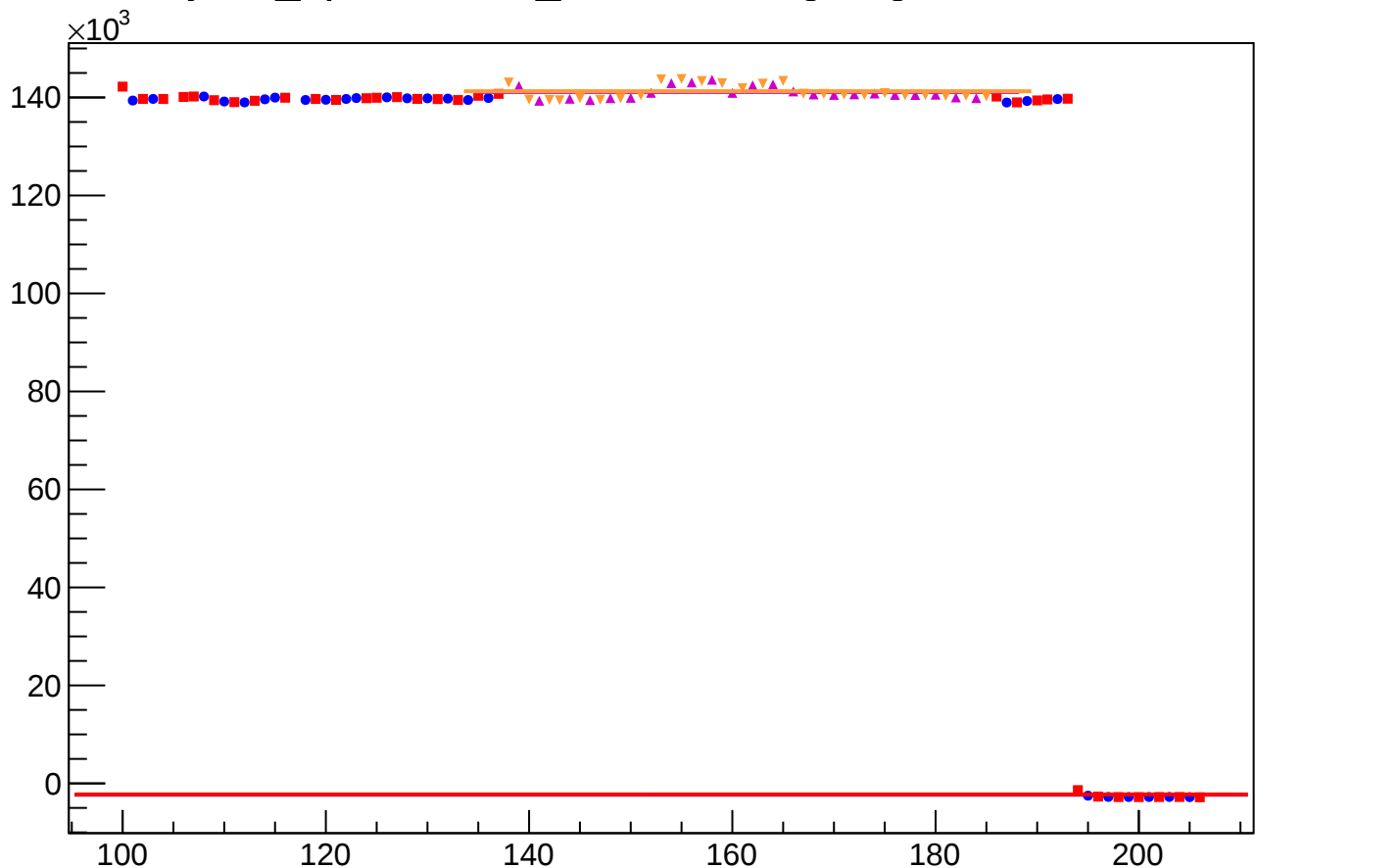
Right: 7.397 ± 0.002 $\chi^2/\text{NDF}: 32347881.5/56$

In: 8.169 ± 0.002 $\chi^2/\text{NDF}: 46650827.5/48$

Out: 8.145 ± 0.002 $\chi^2/\text{NDF}: 51229839.1/55$

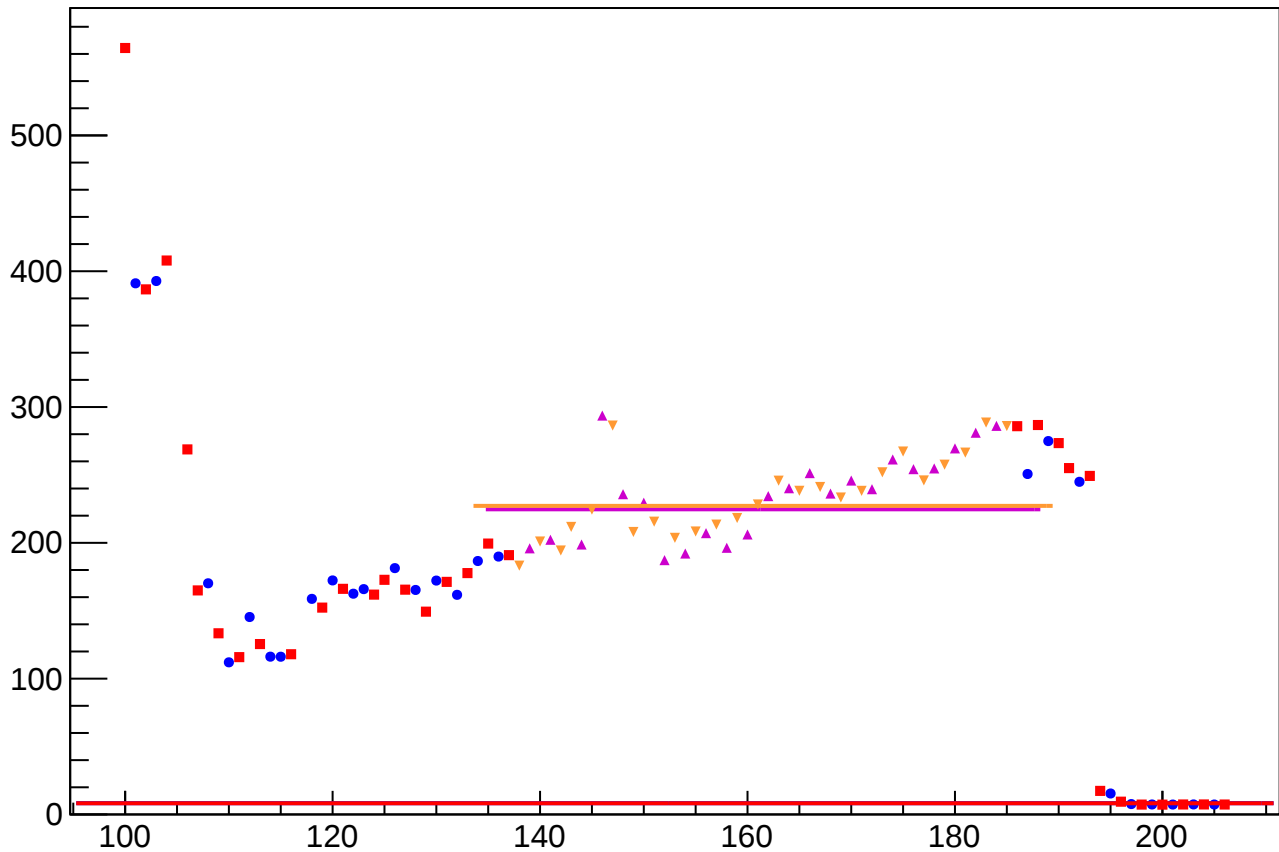
All: 8.157 ± 0.002 $\chi^2/\text{NDF}: 97880719.9/104$

yield_bpm0l09WS_mean vs Slug, Sign Corrected



Right In: -2309.414 $\pm$ 0.004	χ^2 /NDF: 4861007150465.5/25	Left: 141195.809 $\pm$ 0.038	χ^2 /NDF: 1365080862.2/4
Left Out: 141268.791 $\pm$ 0.054	χ^2 /NDF: 795989244.2/24	Right: -2283.867 $\pm$ 0.003	χ^2 /NDF: 1064803027232
Right Out: -2259.952 $\pm$ 0.004	χ^2 /NDF: 5786927842728.5/30	In: -1681.424 $\pm$ 0.004	χ^2 /NDF: 11653389844445.5
Left In: 141119.484 $\pm$ 0.055	χ^2 /NDF: 565312728.1/22	Out: -1644.644 $\pm$ 0.004	χ^2 /NDF: 12901167478439
		All: -1662.428 $\pm$ 0.003	χ^2 /NDF: 2455461023

yield_bpm0l09WS_rms vs Slug, Sign Corrected



Right In: 8.293 ± 0.003 $\chi^2/\text{NDF}: 15046562.4/25$

Left Out: 227.224 ± 0.038 $\chi^2/\text{NDF}: 484955.3/24$

Right Out: 8.232 ± 0.002 $\chi^2/\text{NDF}: 17484738.7/30$

Left In: 224.686 ± 0.039 $\chi^2/\text{NDF}: 578366.0/22$

Left: 225.984 ± 0.027 $\chi^2/\text{NDF}: 1065504.5/47$

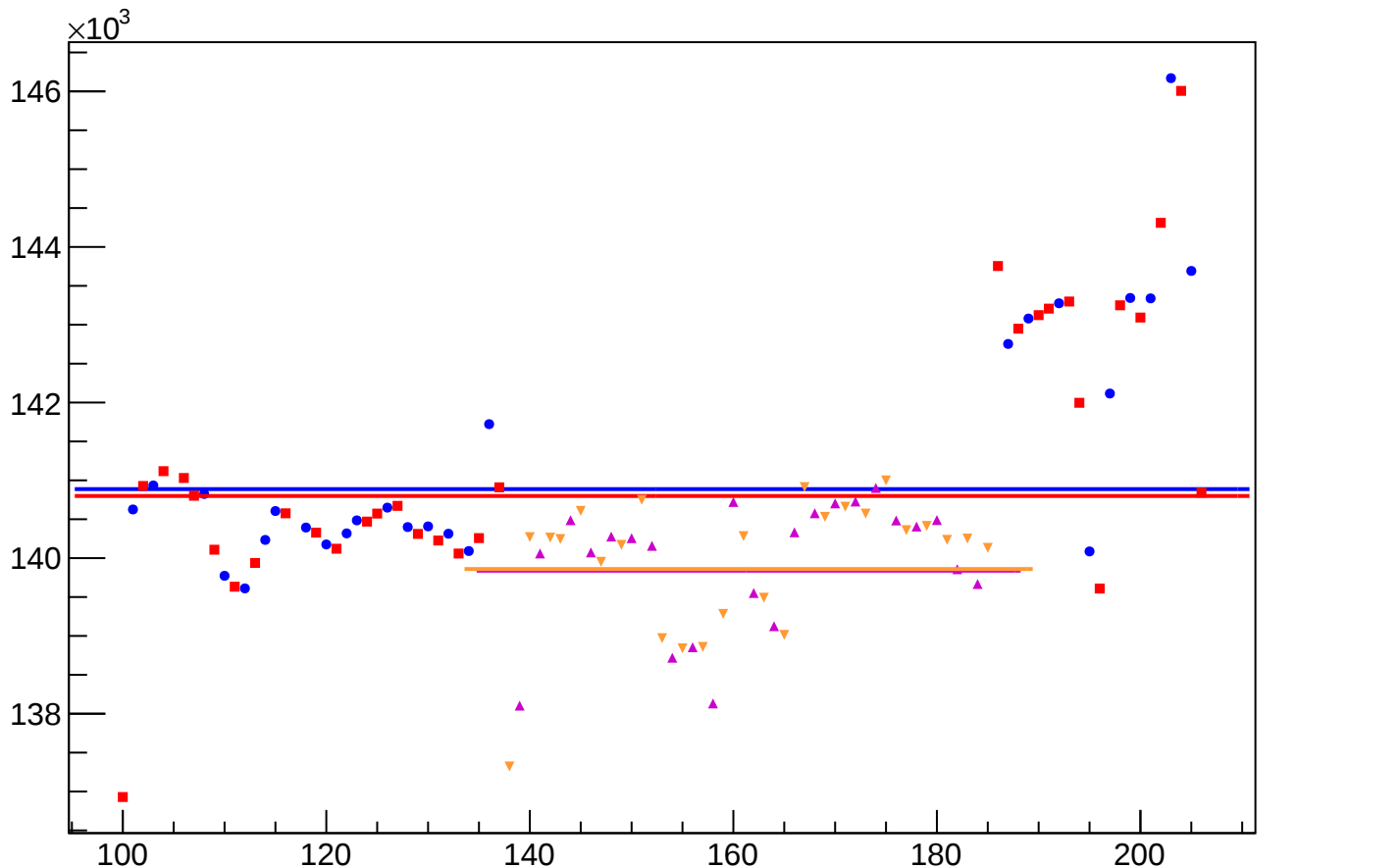
Right: 8.262 ± 0.002 $\chi^2/\text{NDF}: 32531583.6/56$

In: 9.240 ± 0.003 $\chi^2/\text{NDF}: 46544381.5/48$

Out: 9.171 ± 0.002 $\chi^2/\text{NDF}: 51089432.4/55$

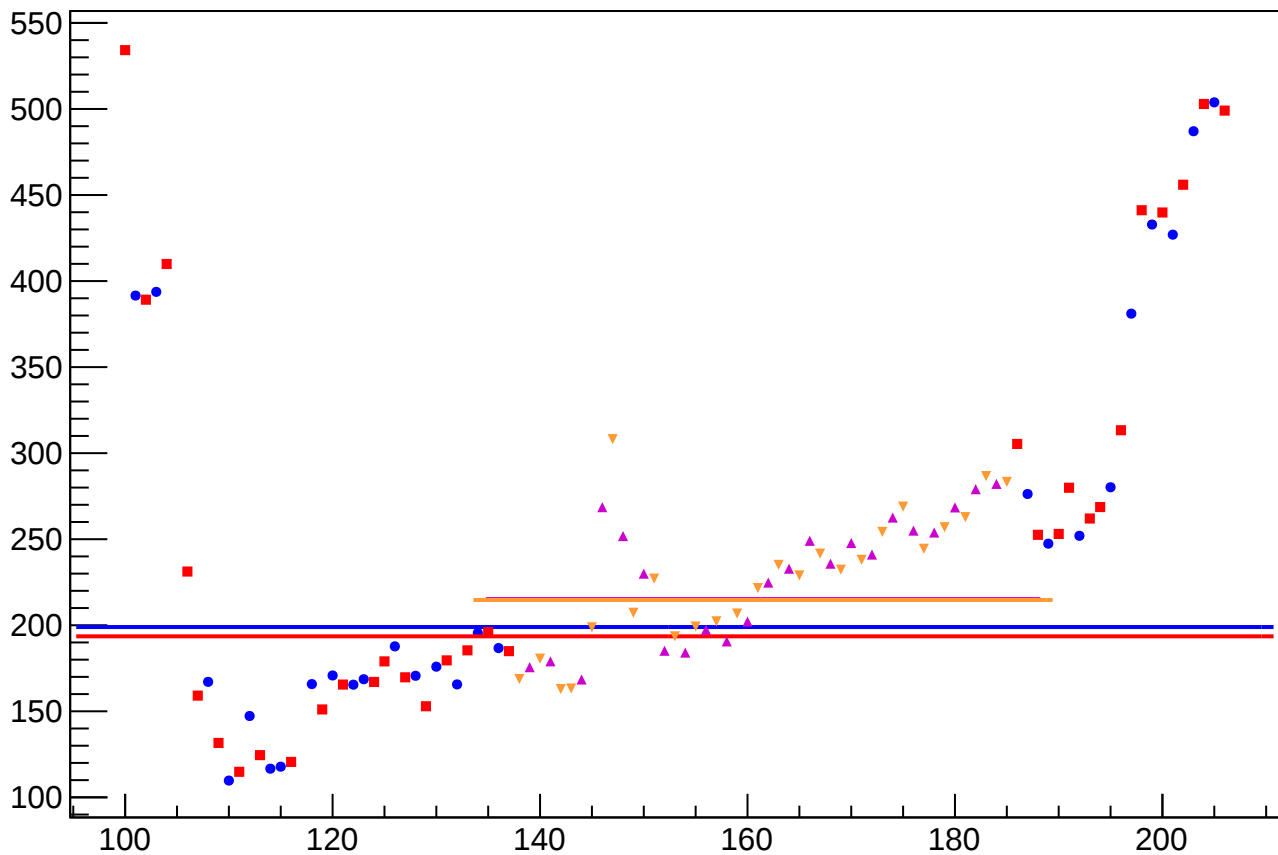
All: 9.205 ± 0.002 $\chi^2/\text{NDF}: 97634184.9/104$

yield_bpm0l10WS_mean vs Slug, Sign Corrected



Right In: 140887.133+/-0.061	$\chi^2/\text{NDF}: 428261737.9/25$	Left: 139849.553+/-0.037	$\chi^2/\text{NDF}: 609773442.9/41$
Left Out: 139859.696+/-0.051	$\chi^2/\text{NDF}: 330118281.5/24$	Right: 140838.831+/-0.041	$\chi^2/\text{NDF}: 933783159.1/5$
Right Out: 140798.926+/-0.056	$\chi^2/\text{NDF}: 504381324.3/30$	In: 140286.663+/-0.040	$\chi^2/\text{NDF}: 876298229.8/48$
Left In: 139838.724+/-0.053	$\chi^2/\text{NDF}: 279573689.3/22$	Out: 140290.049+/-0.038	$\chi^2/\text{NDF}: 989311988.2/55$
		All: 140288.458+/-0.027	$\chi^2/\text{NDF}: 186561402$

yield_bpm0l10WS_rms vs Slug, Sign Corrected



Right In: 198.964 $\pm$ 0.043 χ^2 /NDF: 4206412.2/25

Left Out: 214.693 $\pm$ 0.036 χ^2 /NDF: 981105.5/24

Right Out: 193.555 $\pm$ 0.039 χ^2 /NDF: 5211992.3/30

Left In: 215.222 $\pm$ 0.037 χ^2 /NDF: 881945.0/22

Left: 214.949 $\pm$ 0.026 χ^2 /NDF: 1863154.2/47

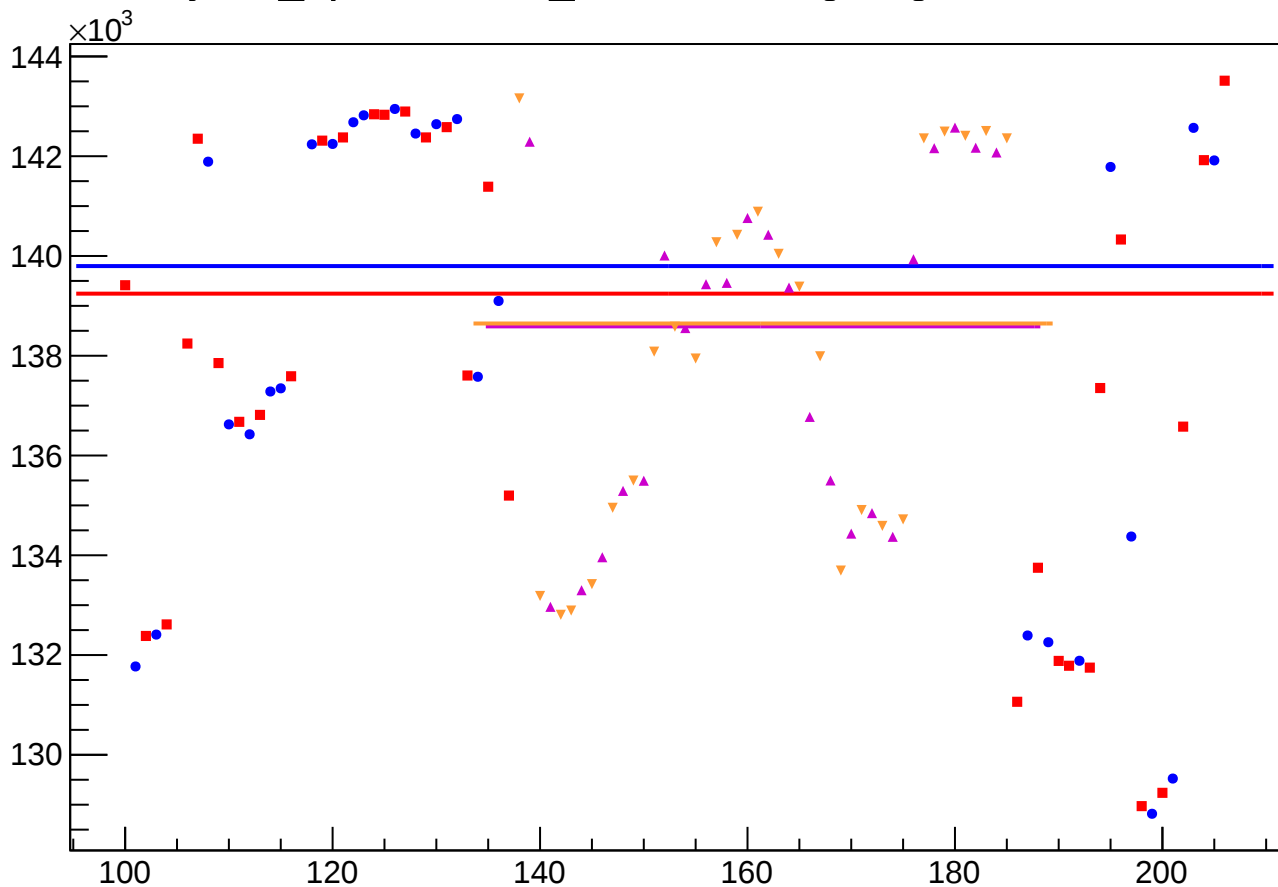
Right: 196.002 $\pm$ 0.029 χ^2 /NDF: 9426978.9/56

In: 208.276 $\pm$ 0.028 χ^2 /NDF: 5169376.7/48

Out: 205.007 $\pm$ 0.027 χ^2 /NDF: 6349917.9/55

All: 206.543 $\pm$ 0.019 χ^2 /NDF: 11526388.1/10

yield_bpm0r03WS_mean vs Slug, Sign Corrected



Right In: 139797.512 $\pm$ 0.087

χ^2 /NDF: 2196546585.7/25

Left: 138618.660 $\pm$ 0.051

χ^2 /NDF: 4497021019.3/4

Left Out: 138646.366 $\pm$ 0.071

χ^2 /NDF: 2548637600.4/24

Right: 139512.680 $\pm$ 0.060

χ^2 /NDF: 4605884976.8/

Right Out: 139244.852 $\pm$ 0.084

χ^2 /NDF: 2388418147.3/30

In: 139095.181 $\pm$ 0.056

χ^2 /NDF: 4257439656.1/48

Out: 138894.752 $\pm$ 0.054

χ^2 /NDF: 4966669832.5/5

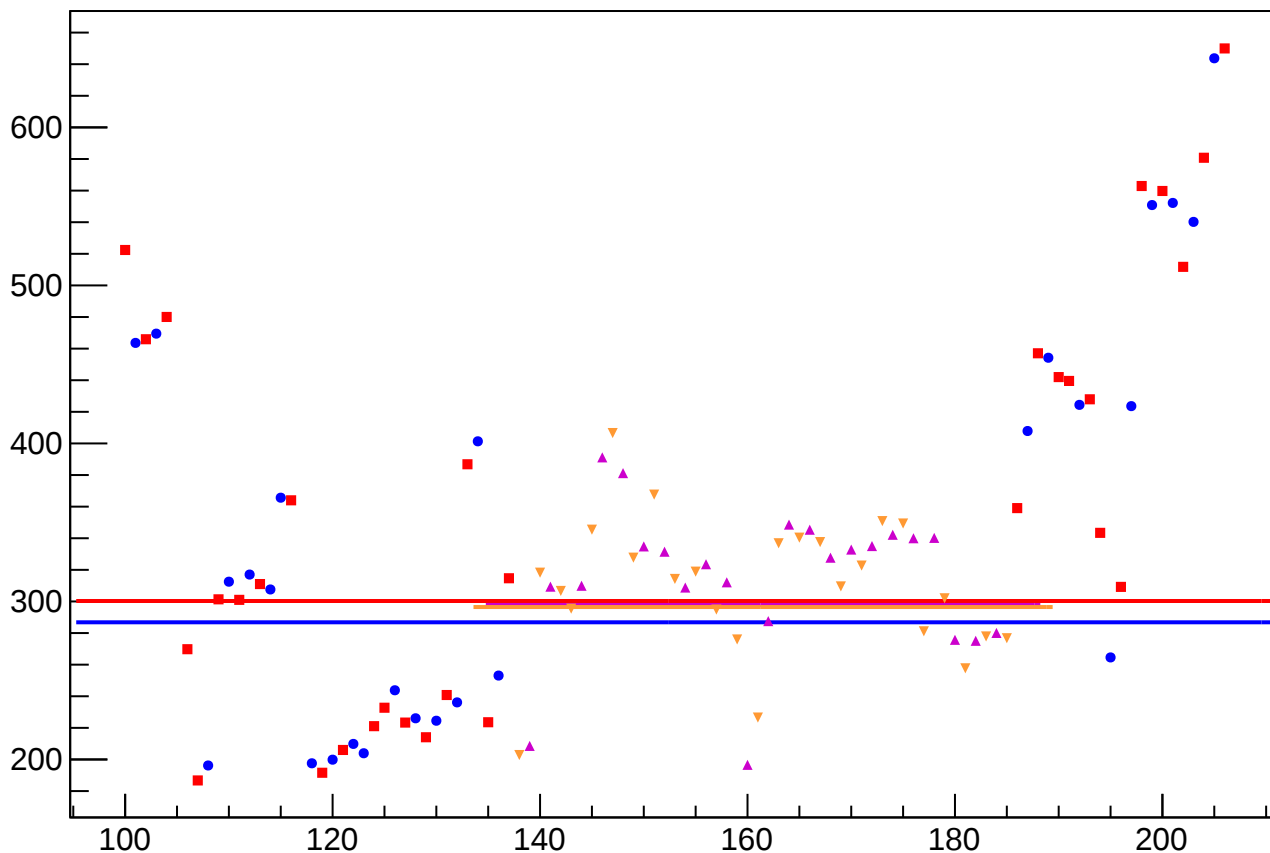
Left In: 138588.711 $\pm$ 0.074

χ^2 /NDF: 1948065195.1/22

All: 138991.408 $\pm$ 0.039

χ^2 /NDF: 923070678

yield_bpm0r03WS_rms vs Slug, Sign Corrected



Right In: 286.805+/-0.061 χ^2/NDF : 3270885.5/25

Left Out: 296.464+/-0.050 χ^2/NDF : 893579.7/24

Right Out: 300.288+/-0.059 χ^2/NDF : 3789937.0/30

Left In: 297.774+/-0.052 χ^2/NDF : 1061489.5/22

Left: 297.094+/-0.036 χ^2/NDF : 1955397.8/47

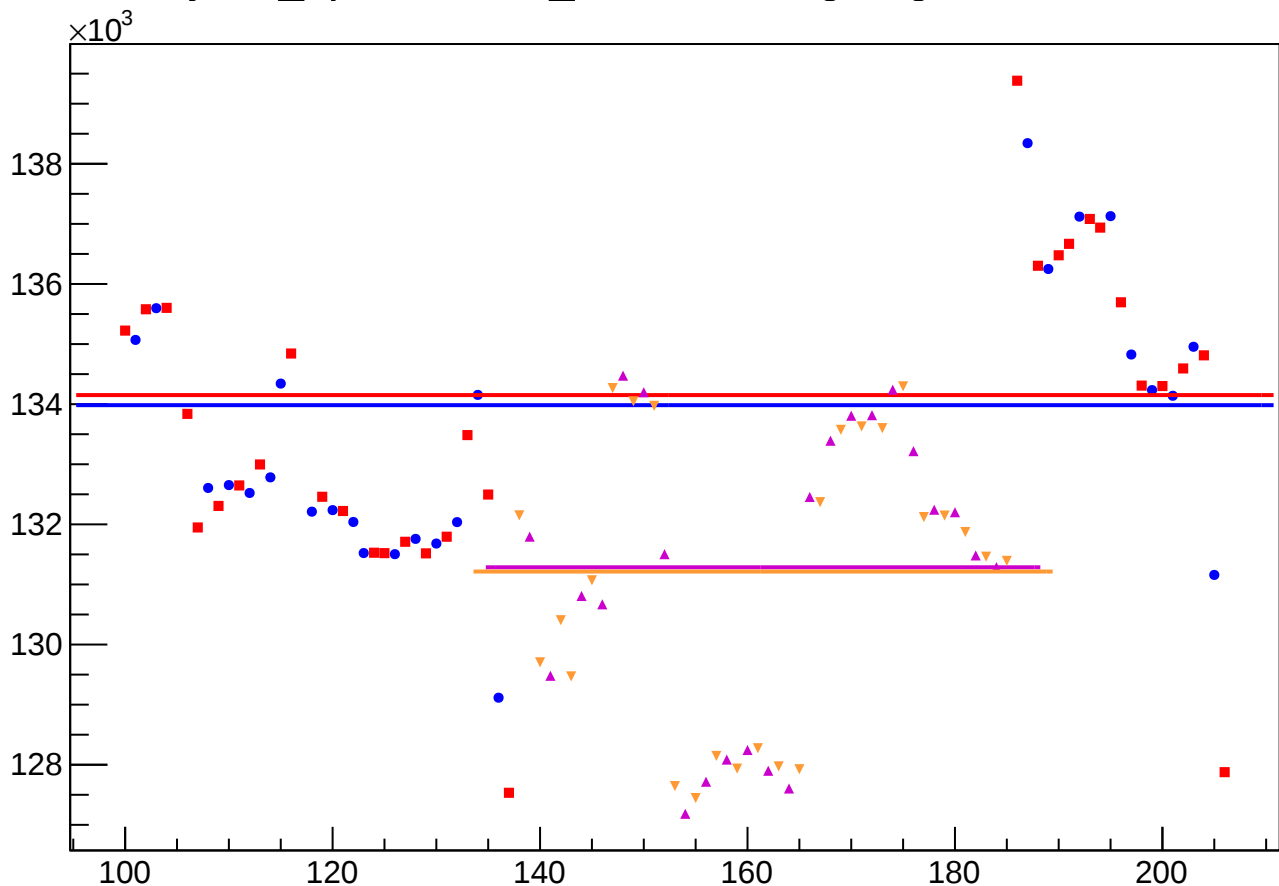
Right: 293.754+/-0.043 χ^2/NDF : 7085725.1/56

In: 293.178+/-0.040 χ^2/NDF : 4350957.3/48

Out: 298.051+/-0.038 χ^2/NDF : 4685934.0/55

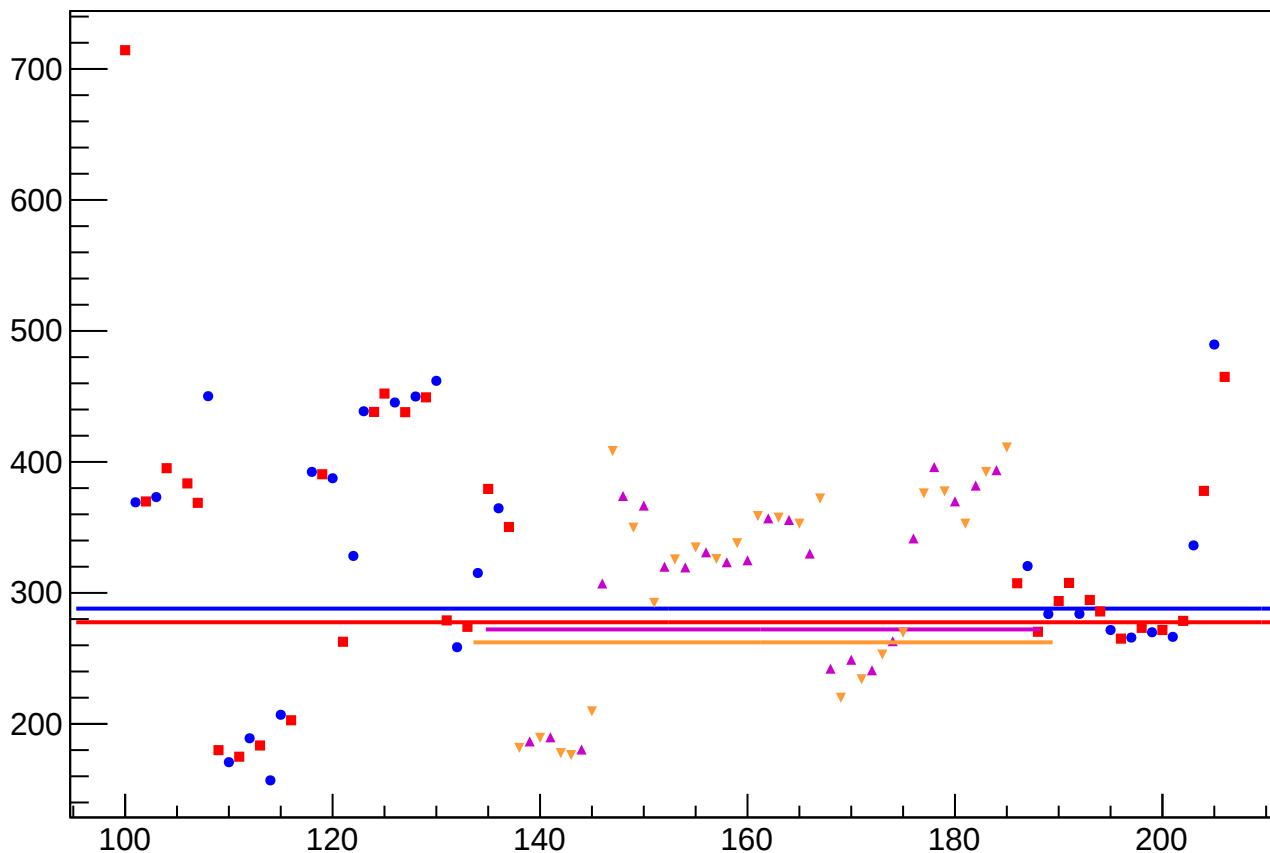
All: 295.701+/-0.028 χ^2/NDF : 9044690.5/104

yield_bpm0r05WS_mean vs Slug, Sign Corrected



Right In: 133983.561 $\pm$ 0.084	χ^2 /NDF: 623661441.9/25	Left: 131248.166 $\pm$ 0.047	χ^2 /NDF: 2230223308.9/4
Left Out: 131214.985 $\pm$ 0.064	χ^2 /NDF: 1173424494.6/24	Right: 134076.472 $\pm$ 0.056	χ^2 /NDF: 1476015277.2/4
Right Out: 134151.254 $\pm$ 0.075	χ^2 /NDF: 850136732.5/30	In: 132362.690 $\pm$ 0.053	χ^2 /NDF: 2302173782.4/4
Left In: 131285.623 $\pm$ 0.068	χ^2 /NDF: 1056232192.1/22	Out: 132455.293 $\pm$ 0.049	χ^2 /NDF: 2903978368.4/5
		All: 132412.702 $\pm$ 0.036	χ^2 /NDF: 520780293

yield_bpm0r05WS_rms vs Slug, Sign Corrected



Right In: 288.013 $\pm$ 0.059 χ^2 /NDF: 1852251.9/25

Left Out: 262.260 $\pm$ 0.045 χ^2 /NDF:2818169.1/24

Right Out: 277.602 $\pm$ 0.053 χ^2 /NDF: 2082464.5/30

Left In: 272.115 $\pm$ 0.048 χ^2 /NDF:2221925.0/22

Left: 266.889 $\pm$ 0.033 χ^2 /NDF: 5062151.8/47

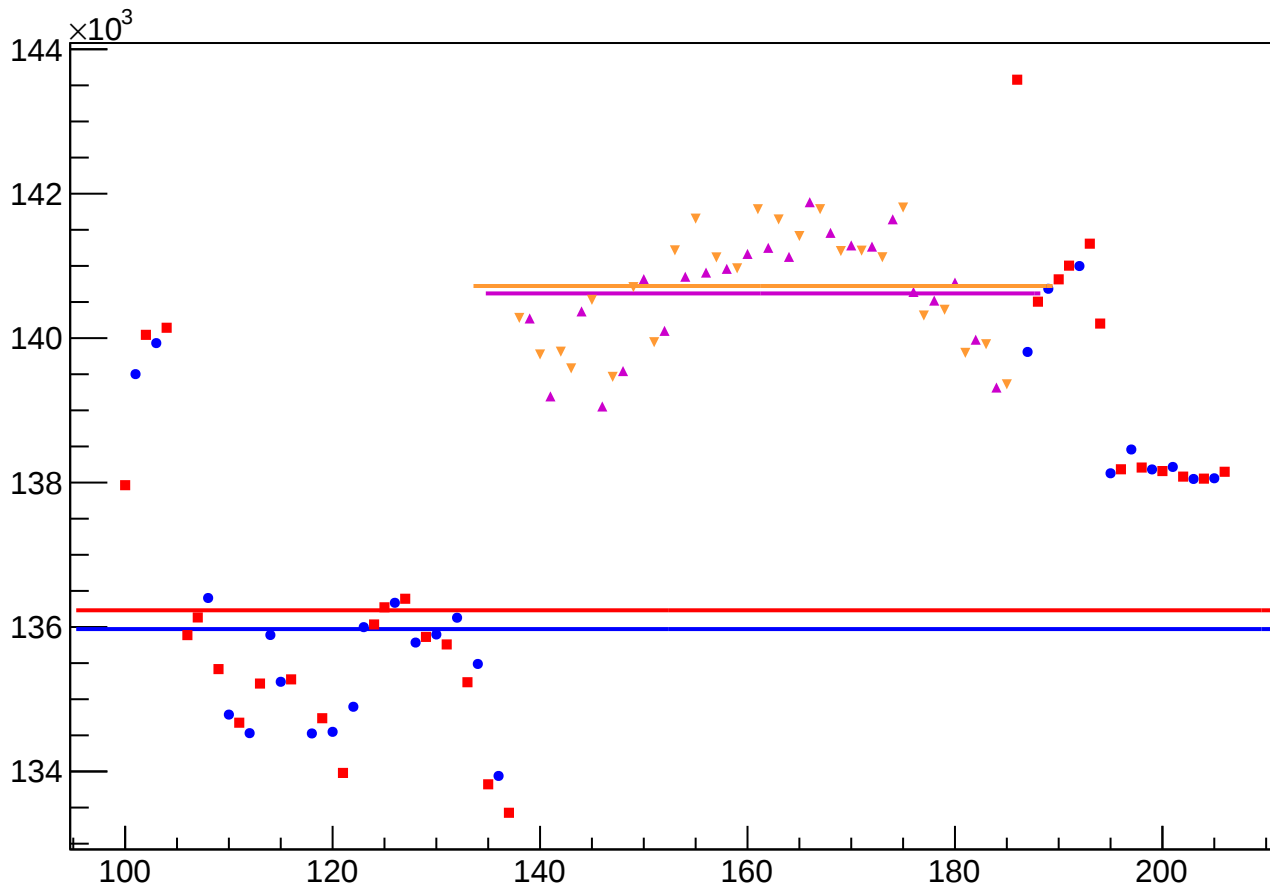
Right: 282.244 $\pm$ 0.040 χ^2 /NDF: 3951807.5/56

In: 278.461 $\pm$ 0.037 χ^2 /NDF:4117391.2/48

Out: 268.740 $\pm$ 0.035 χ^2 /NDF:4948705.0/55

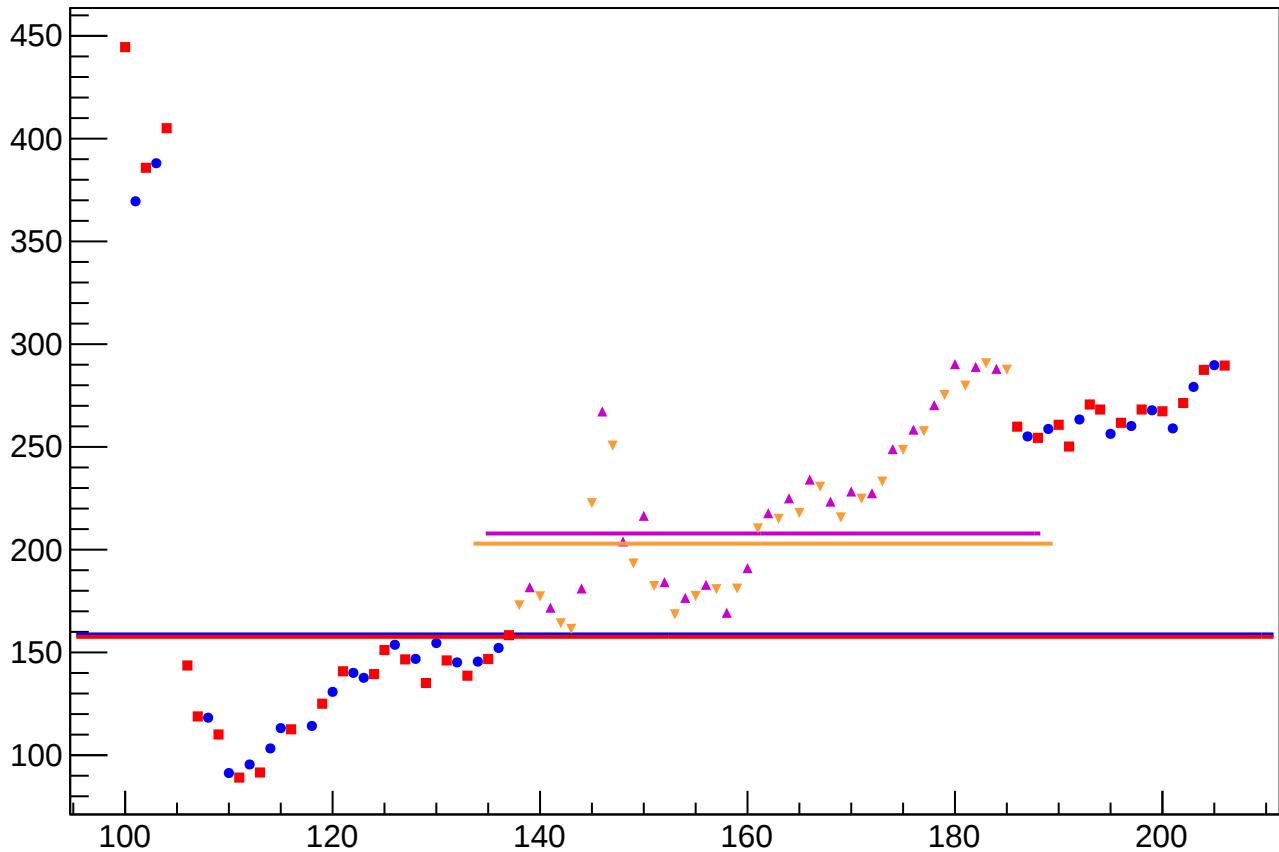
All: 273.211 $\pm$ 0.025 χ^2 /NDF: 9102480.1/104

yield_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 135971.483 $\pm$ 0.048	χ^2 /NDF: 1412217780.7/25	Left: 140673.196 $\pm$ 0.035	χ^2 /NDF: 449761004.9/47
Left Out: 140721.823 $\pm$ 0.048	χ^2 /NDF: 247257762.8/24	Right: 136110.885 $\pm$ 0.033	χ^2 /NDF: 3523240505.0/25
Right Out: 136231.580 $\pm$ 0.045	χ^2 /NDF: 2095561785.8/30	In: 138171.162 $\pm$ 0.035	χ^2 /NDF: 5971912521.5/48
Left In: 140619.038 $\pm$ 0.051	χ^2 /NDF: 200370178.0/22	Out: 138316.149 $\pm$ 0.033	χ^2 /NDF: 6952793419.0/51
		All: 138248.254 $\pm$ 0.024	χ^2 /NDF: 129337553.0/100

yield_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 158.752 $\pm$ 0.034 χ^2 /NDF: 3981440.1/25

Left Out: 202.934 $\pm$ 0.034 χ^2 /NDF:1052283.6/24

Right Out: 157.593 $\pm$ 0.032 χ^2 /NDF: 4953100.1/30

Left In: 207.872 $\pm$ 0.036 χ^2 /NDF:949200.3/22

Left: 205.270 $\pm$ 0.025 χ^2 /NDF: 2011329.4/47

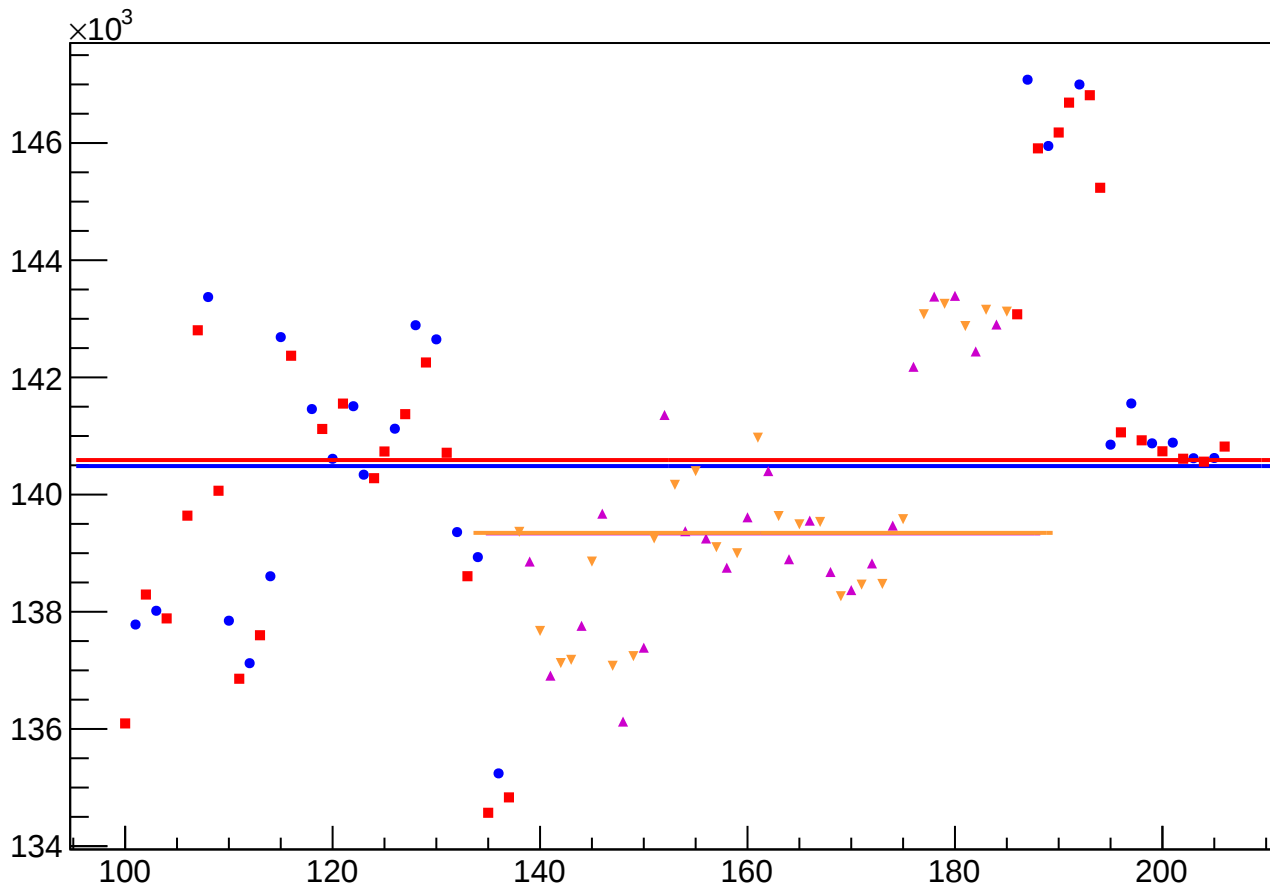
Right: 158.131 $\pm$ 0.023 χ^2 /NDF: 8935153.7/56

In: 182.000 $\pm$ 0.025 χ^2 /NDF:5904556.4/48

Out: 178.642 $\pm$ 0.023 χ^2 /NDF:6945476.0/55

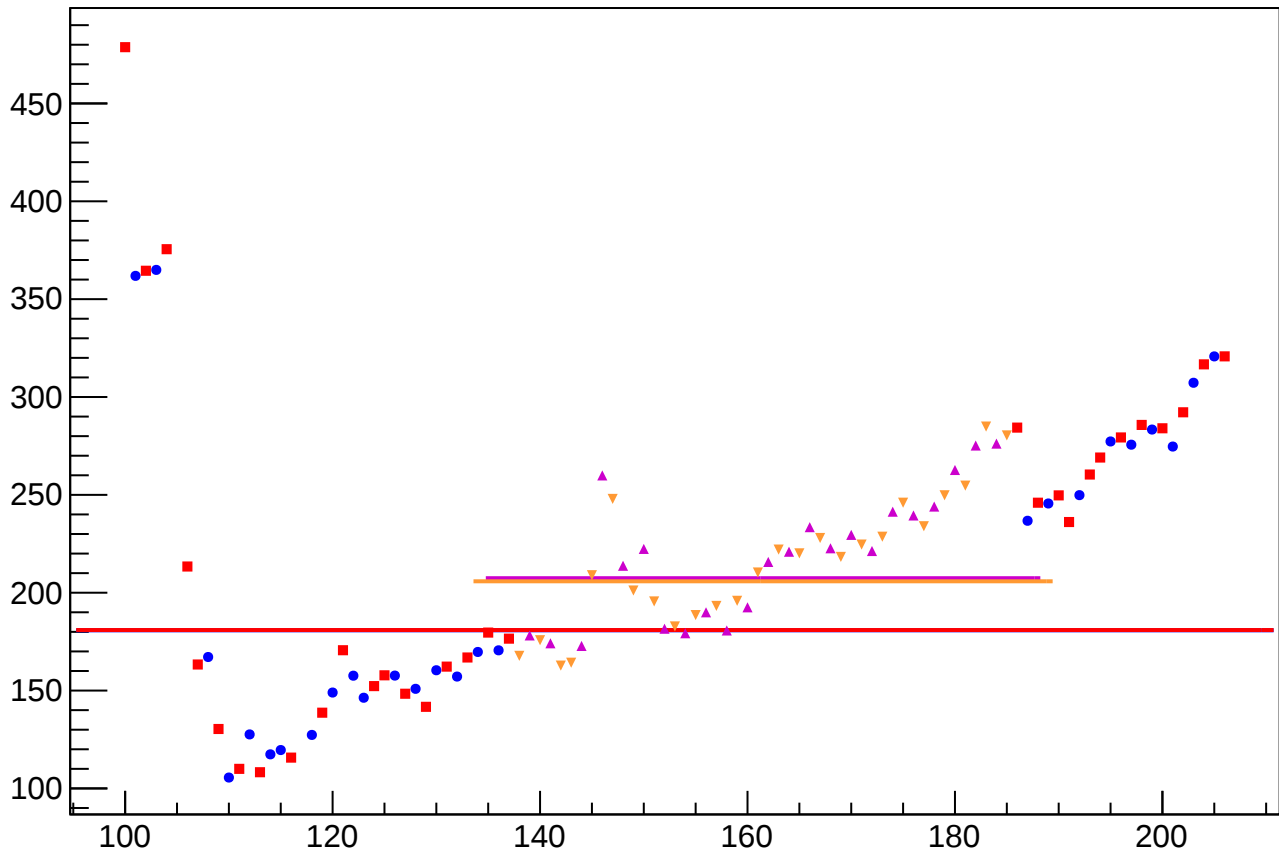
All: 180.215 $\pm$ 0.017 χ^2 /NDF: 12859739.4/10

yield_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 140486.744+/-0.054	χ^2/NDF : 2771120328.3/25	Left: 139342.403+/-0.035	χ^2/NDF : 2564192227.9/4
Left Out: 139346.604+/-0.049	χ^2/NDF : 1271172976.7/24	Right: 140541.429+/-0.037	χ^2/NDF : 5984817589.6/4
Right Out: 140589.375+/-0.051	χ^2/NDF : 3211778118.5/30	In: 139876.870+/-0.037	χ^2/NDF : 4303712742.5/48
Left In: 139337.874+/-0.051	χ^2/NDF : 1293003954.9/22	Out: 139947.138+/-0.035	χ^2/NDF : 4794233830.1/5
		All: 139913.794+/-0.026	χ^2/NDF : 909983765

yield_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 180.797 $\pm$ 0.038 χ^2 /NDF: 3088019.5/25

Left Out: 205.833 $\pm$ 0.035 χ^2 /NDF: 738666.4/24

Right Out: 180.926 $\pm$ 0.036 χ^2 /NDF: 3880995.7/30

Left In: 207.416 $\pm$ 0.036 χ^2 /NDF: 701955.3/22

Left: 206.595 $\pm$ 0.025 χ^2 /NDF: 1441628.2/47

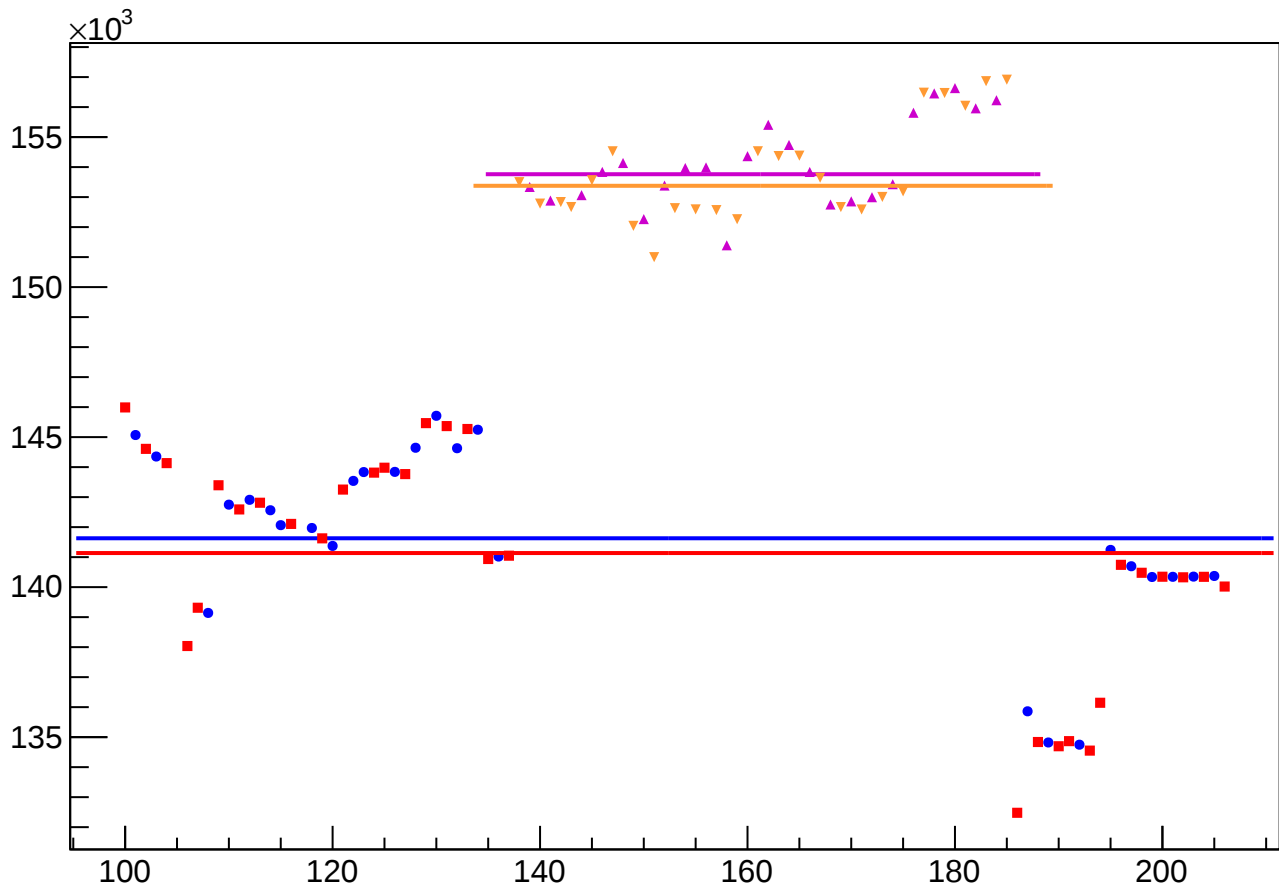
Right: 180.865 $\pm$ 0.026 χ^2 /NDF: 6969021.1/56

In: 194.928 $\pm$ 0.026 χ^2 /NDF: 4047219.2/48

Out: 193.797 $\pm$ 0.025 χ^2 /NDF: 4869728.2/55

All: 194.334 $\pm$ 0.018 χ^2 /NDF: 8917926.6/104

yield_bpm0i05WS_mean vs Slug, Sign Corrected



Right In: 141628.402 $\pm$ 0.055 χ^2 /NDF: 2673743399.0/25

Left Out: 153376.698 $\pm$ 0.050 χ^2 /NDF: 803848095.1/24

Right Out: 141136.139 $\pm$ 0.050 χ^2 /NDF: 4430025122.1/30

Left In: 153762.419 $\pm$ 0.051 χ^2 /NDF: 635075685.0/22

Left: 153562.262 $\pm$ 0.036 χ^2 /NDF: 1468093411.3/4

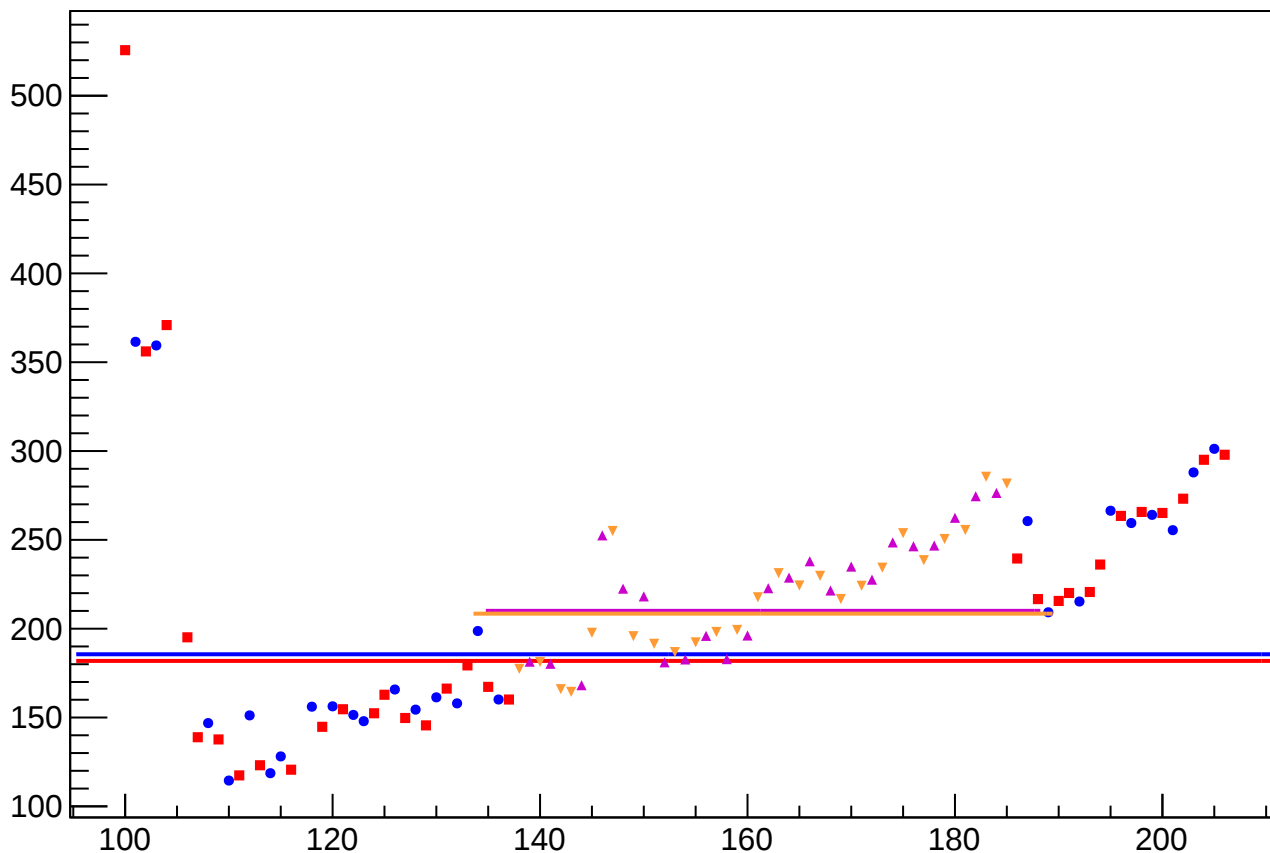
Right: 141360.468 $\pm$ 0.037 χ^2 /NDF: 7148049464.3/4

In: 148053.301 $\pm$ 0.037 χ^2 /NDF: 29482333475.6/4

Out: 147305.934 $\pm$ 0.035 χ^2 /NDF: 35517402584.5/4

All: 147656.302 $\pm$ 0.026 χ^2 /NDF: 652114505.0/4

yield_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 185.602 $\pm$ 0.039 χ^2 /NDF: 2283332.9/25

Left Out: 208.466 $\pm$ 0.035 χ^2 /NDF: 720894.7/24

Right Out: 181.863 $\pm$ 0.035 χ^2 /NDF: 2851834.0/30

Left In: 210.038 $\pm$ 0.036 χ^2 /NDF: 702369.5/22

Left: 209.222 $\pm$ 0.025 χ^2 /NDF: 1424233.1/47

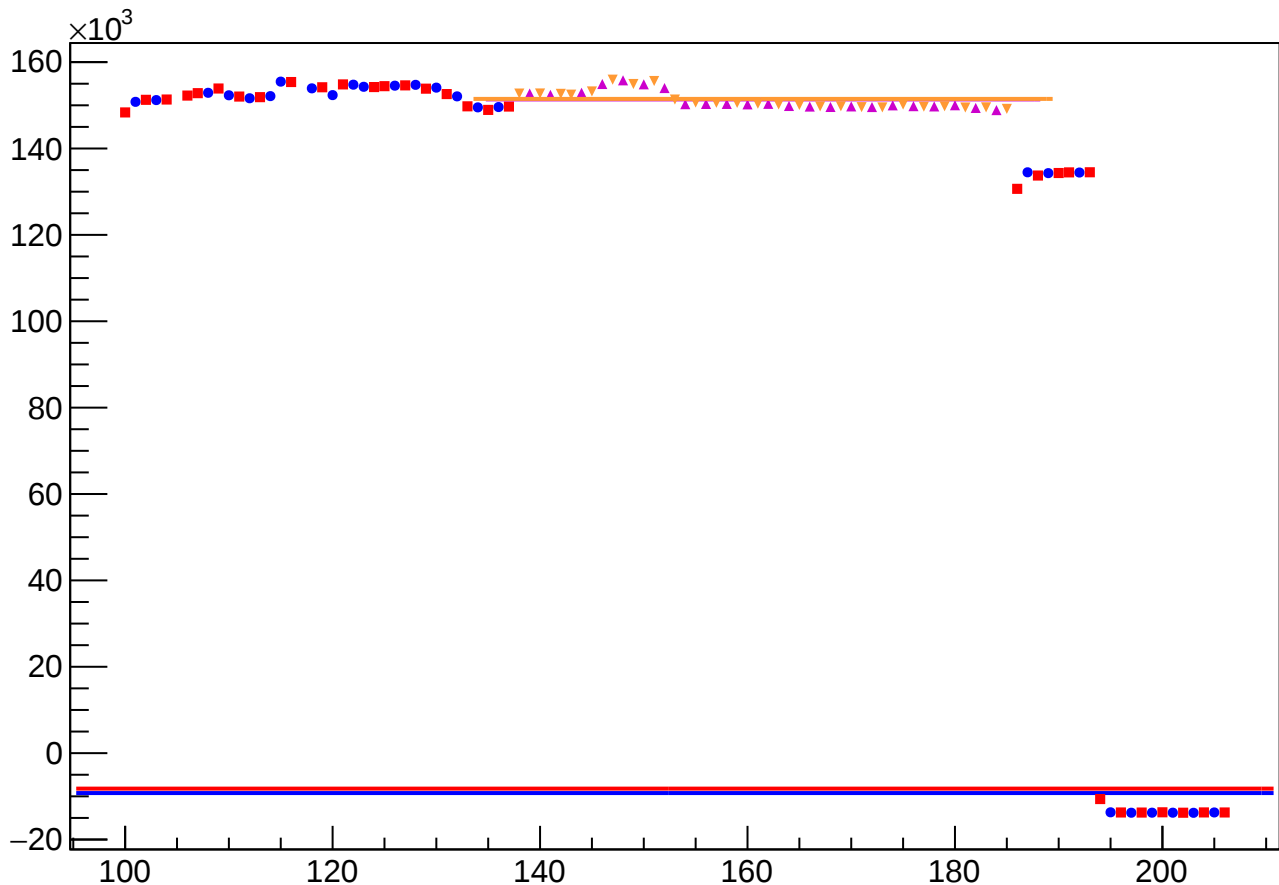
Right: 183.567 $\pm$ 0.026 χ^2 /NDF: 5140277.4/56

In: 198.541 $\pm$ 0.026 χ^2 /NDF: 3197989.8/48

Out: 195.272 $\pm$ 0.025 χ^2 /NDF: 3858812.7/55

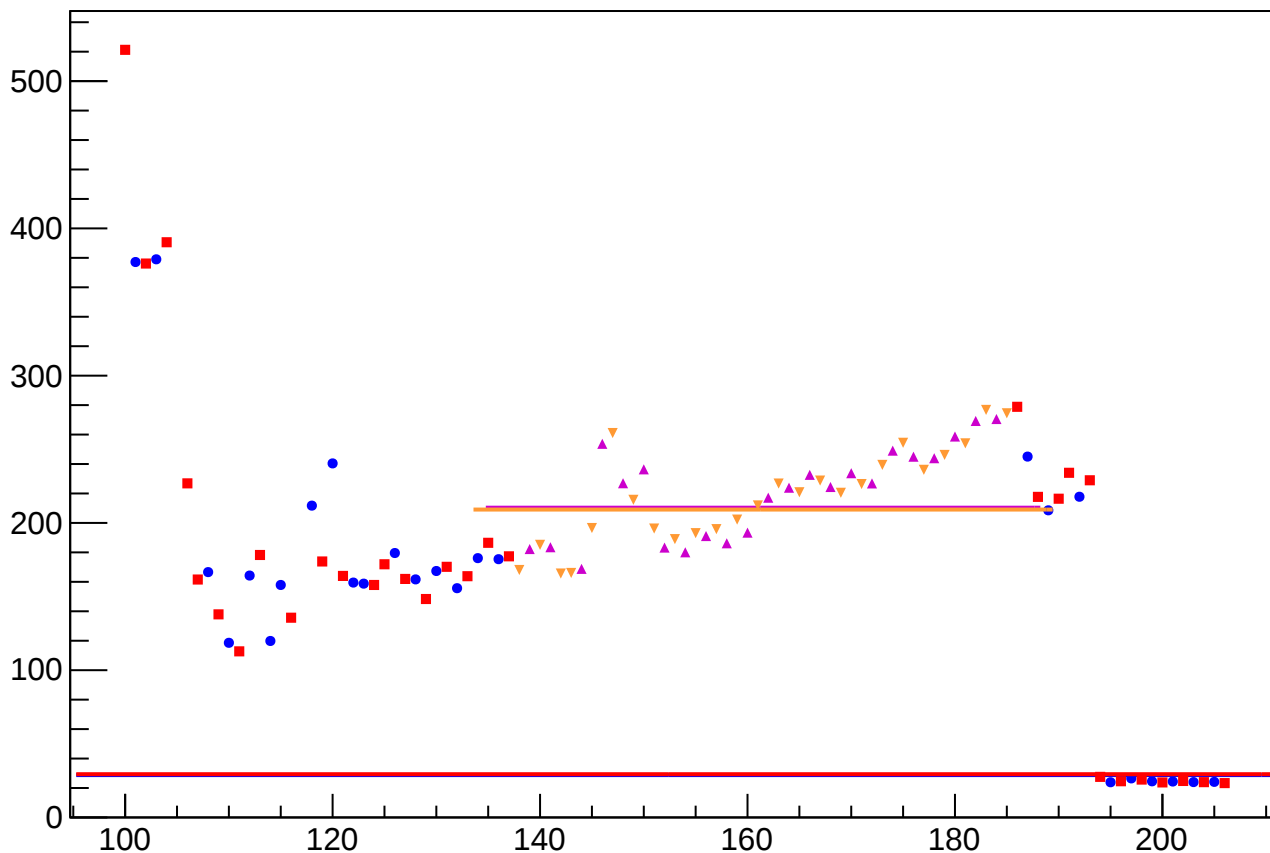
All: 196.804 $\pm$ 0.018 χ^2 /NDF: 7064902.5/104

yield_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -9240.143 $\pm$ 0.011 χ^2 /NDF: 5847948486734.4/25
 Left Out: 151483.385 $\pm$ 0.050 χ^2 /NDF: 1481910066.9/24
 Right Out: -8211.852 $\pm$ 0.011 χ^2 /NDF: 7132715559341.8/30
 Left In: 151363.165 $\pm$ 0.051 χ^2 /NDF: 1421662089.0/22
 Left: 151425.512 $\pm$ 0.036 χ^2 /NDF: 2906409079.9/25
 Right: -8714.758 $\pm$ 0.008 χ^2 /NDF: 1298504339576.9/24
 In: -2075.808 $\pm$ 0.011 χ^2 /NDF: 15176462004803.7/24
 Out: -875.886 $\pm$ 0.011 χ^2 /NDF: 17055230458288.8/24
 All: -1462.314 $\pm$ 0.008 χ^2 /NDF: 3223793841.8/24

yield_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 28.769+/-0.008 χ^2/NDF : 11489216.9/25

Left Out: 209.076+/-0.035 χ^2/NDF : 708260.3/24

Right Out: 29.374+/-0.008 χ^2/NDF : 13463371.6/30

Left In: 210.345+/-0.036 χ^2/NDF : 677747.7/22

Left: 209.687+/-0.025 χ^2/NDF : 1386640.1/47

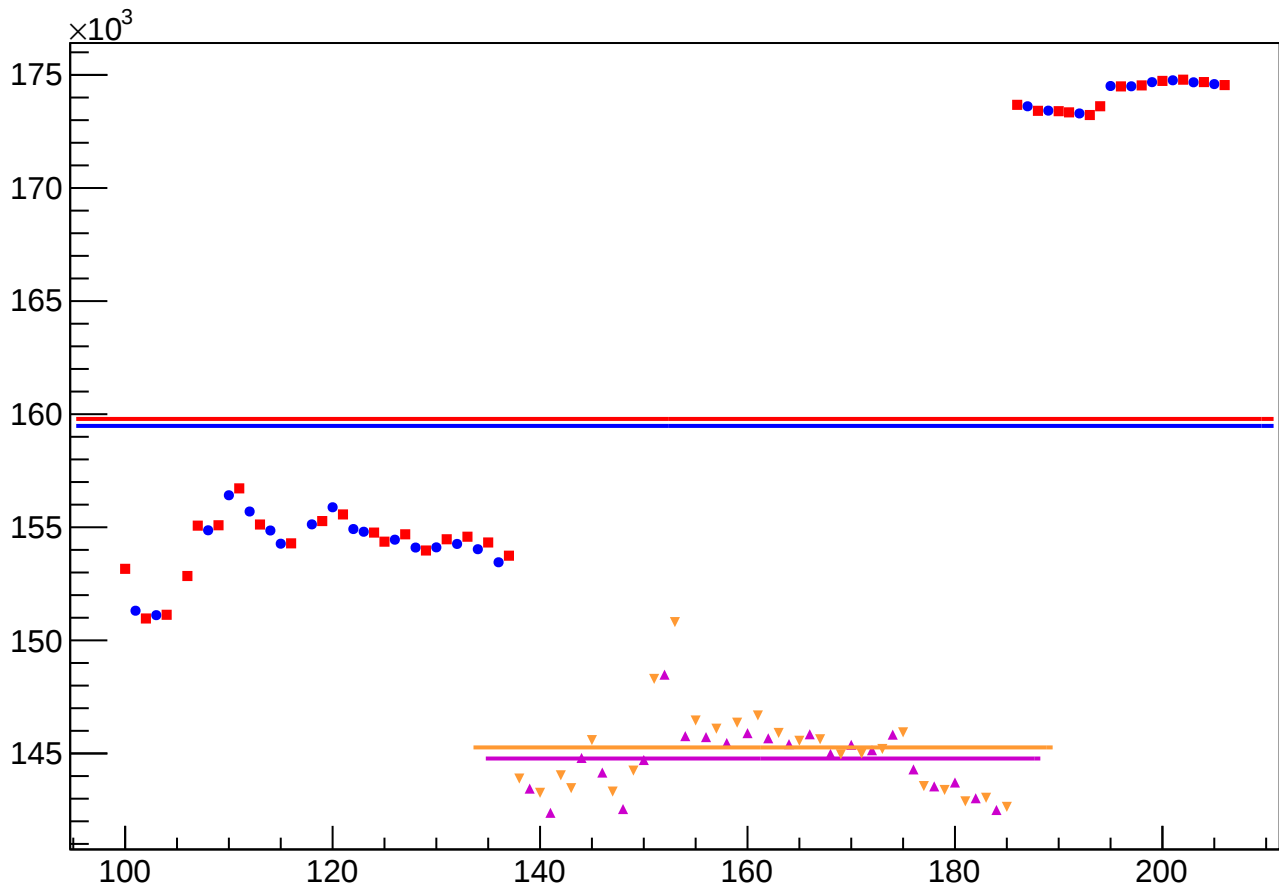
Right: 29.078+/-0.005 χ^2/NDF : 24955617.8/56

In: 36.869+/-0.008 χ^2/NDF : 36011175.3/48

Out: 37.629+/-0.008 χ^2/NDF : 39296828.6/55

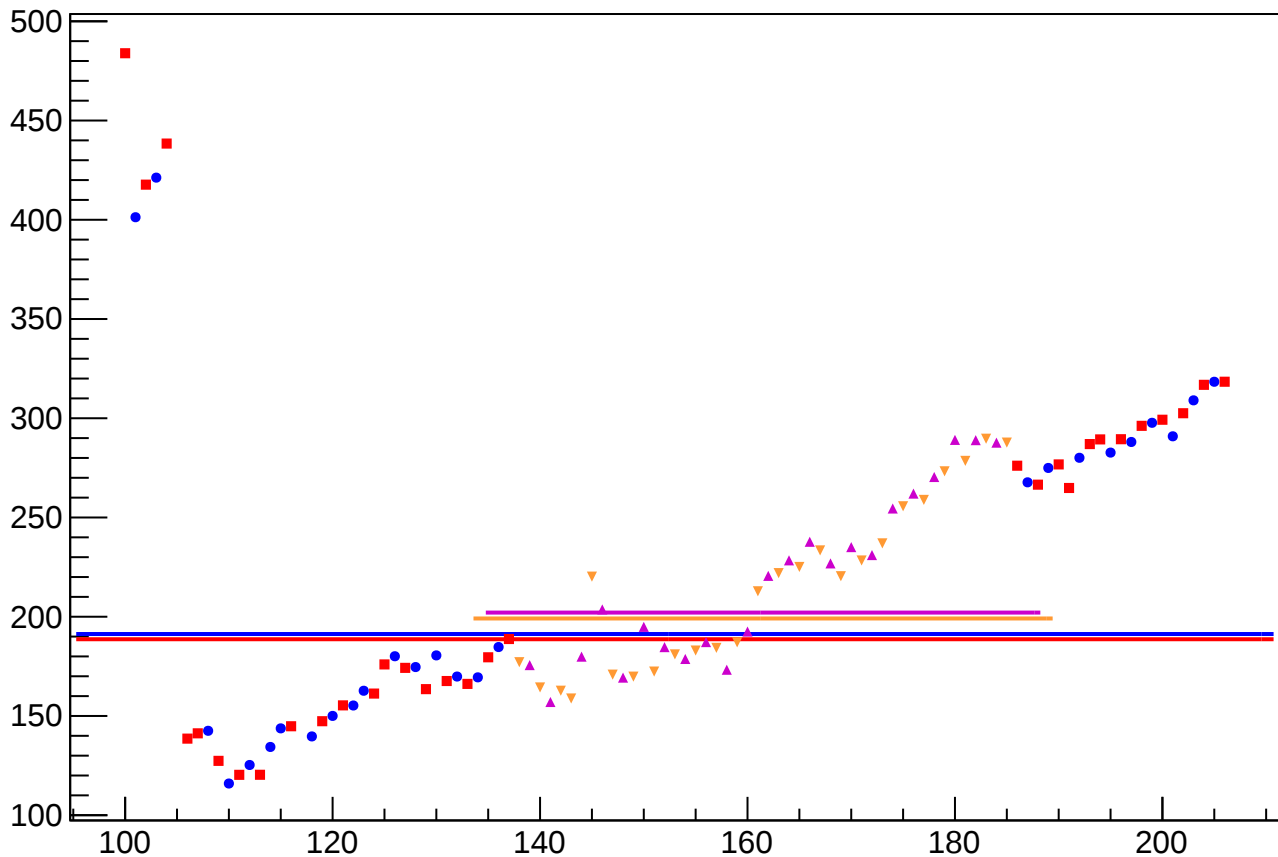
All: 37.257+/-0.005 χ^2/NDF : 75313013.4/104

yield_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: 159481.461 $\pm$ 0.057	χ^2 /NDF: 21649683847.3/25	Left: 145032.324 $\pm$ 0.034	χ^2 /NDF: 2687033506.0/25
Left Out: 145266.717 $\pm$ 0.047	χ^2 /NDF: 1717707352.7/24	Right: 159648.822 $\pm$ 0.039	χ^2 /NDF: 47766379850.1/24
Right Out: 159790.320 $\pm$ 0.052	χ^2 /NDF: 26100811442.6/30	In: 151101.225 $\pm$ 0.037	χ^2 /NDF: 60437730365.4/30
Left In: 144776.016 $\pm$ 0.050	χ^2 /NDF: 918120275.4/22	Out: 151794.534 $\pm$ 0.035	χ^2 /NDF: 70027144361.5/22
		All: 151469.327 $\pm$ 0.026	χ^2 /NDF: 130647205.0/22

yield_bpm1i02WS_rms vs Slug, Sign Corrected



Right In: 191.287+/-0.040 χ^2/NDF : 3121621.9/25

Left Out: 199.118+/-0.034 χ^2/NDF : 1152231.0/24

Right Out: 188.658+/-0.037 χ^2/NDF : 3881903.5/30

Left In: 202.090+/-0.035 χ^2/NDF : 1057833.2/22

Left: 200.538+/-0.024 χ^2/NDF : 2213821.5/47

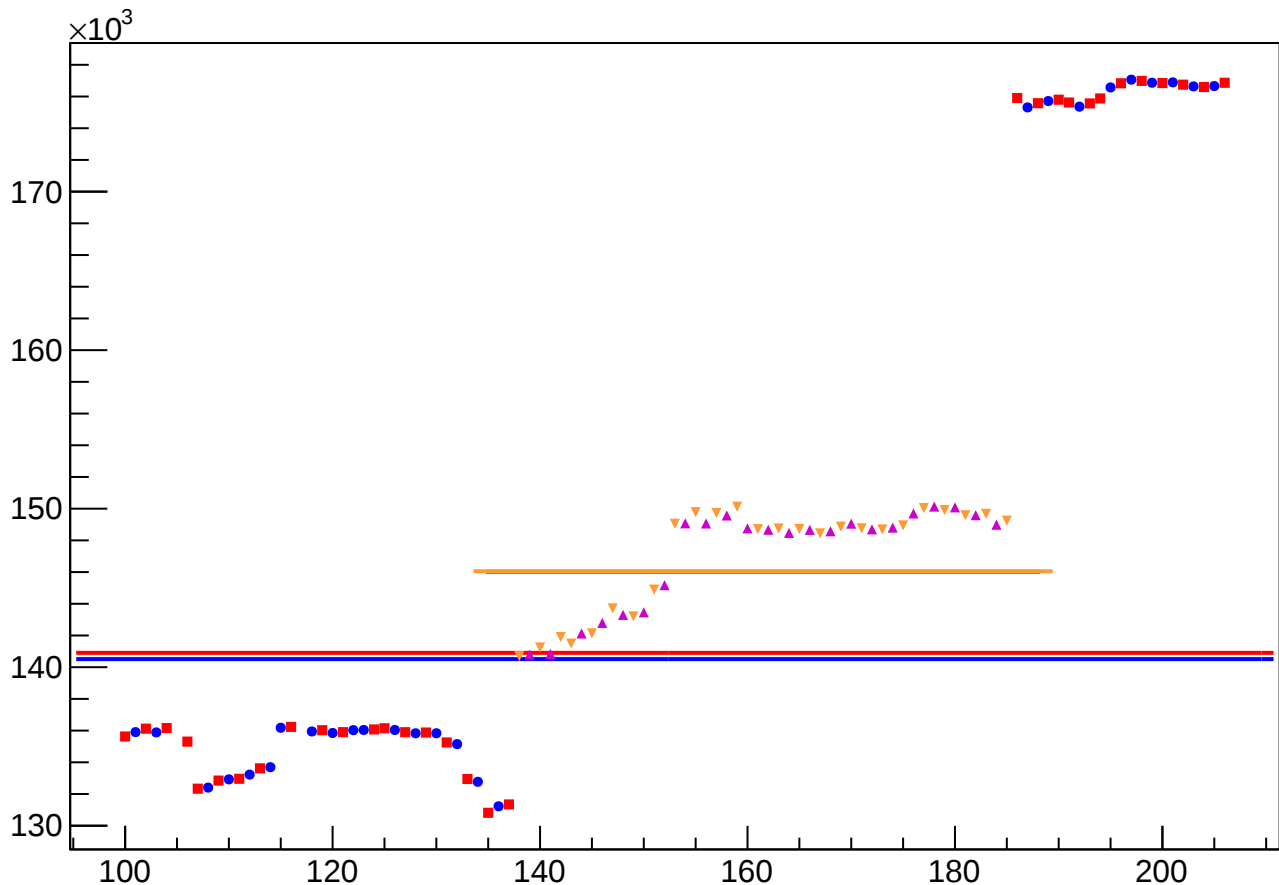
Right: 189.863+/-0.027 χ^2/NDF : 7005827.5/56

In: 197.444+/-0.026 χ^2/NDF : 4220329.8/48

Out: 194.417+/-0.025 χ^2/NDF : 5077921.0/55

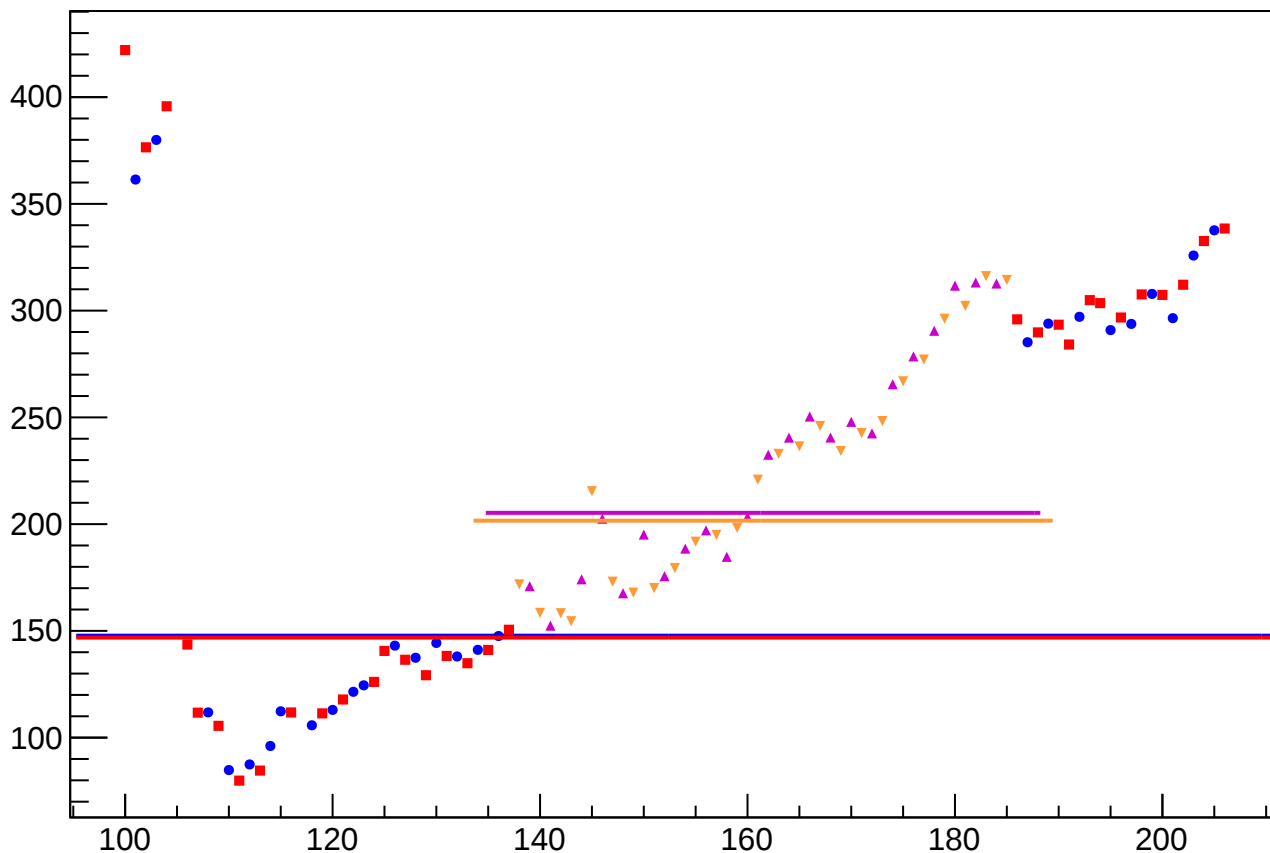
All: 195.836+/-0.018 χ^2/NDF : 9305201.5/104

yield_bpm1i04WS_mean vs Slug, Sign Corrected



Right In: 140509.995 $\pm$ 0.047	χ^2 /NDF: 104266660733.7/25	Left: 146036.626 $\pm$ 0.035	χ^2 /NDF: 9994930852.8/4
Left Out: 146051.733 $\pm$ 0.048	χ^2 /NDF: 5403300123.1/24	Right: 140721.221 $\pm$ 0.032	χ^2 /NDF: 231986829490
Right Out: 140905.349 $\pm$ 0.043	χ^2 /NDF: 127681605240.7/30	In: 143031.961 $\pm$ 0.034	χ^2 /NDF: 115275158147.0
Left In: 146020.015 $\pm$ 0.051	χ^2 /NDF: 4591425371.4/22	Out: 143206.887 $\pm$ 0.032	χ^2 /NDF: 139359575505
		All: 143124.584 $\pm$ 0.024	χ^2 /NDF: 254648530

yield_bpm1i04WS_rms vs Slug, Sign Corrected



Right In: 147.755 $\pm$ 0.033 χ^2 /NDF: 5392829.1/25

Left Out: 201.632 $\pm$ 0.034 χ^2 /NDF:1589564.0/24

Right Out: 146.856 $\pm$ 0.031 χ^2 /NDF: 6719193.4/30

Left In: 205.286 $\pm$ 0.036 χ^2 /NDF:1425292.7/22

Left: 203.372 $\pm$ 0.025 χ^2 /NDF: 3020309.5/47

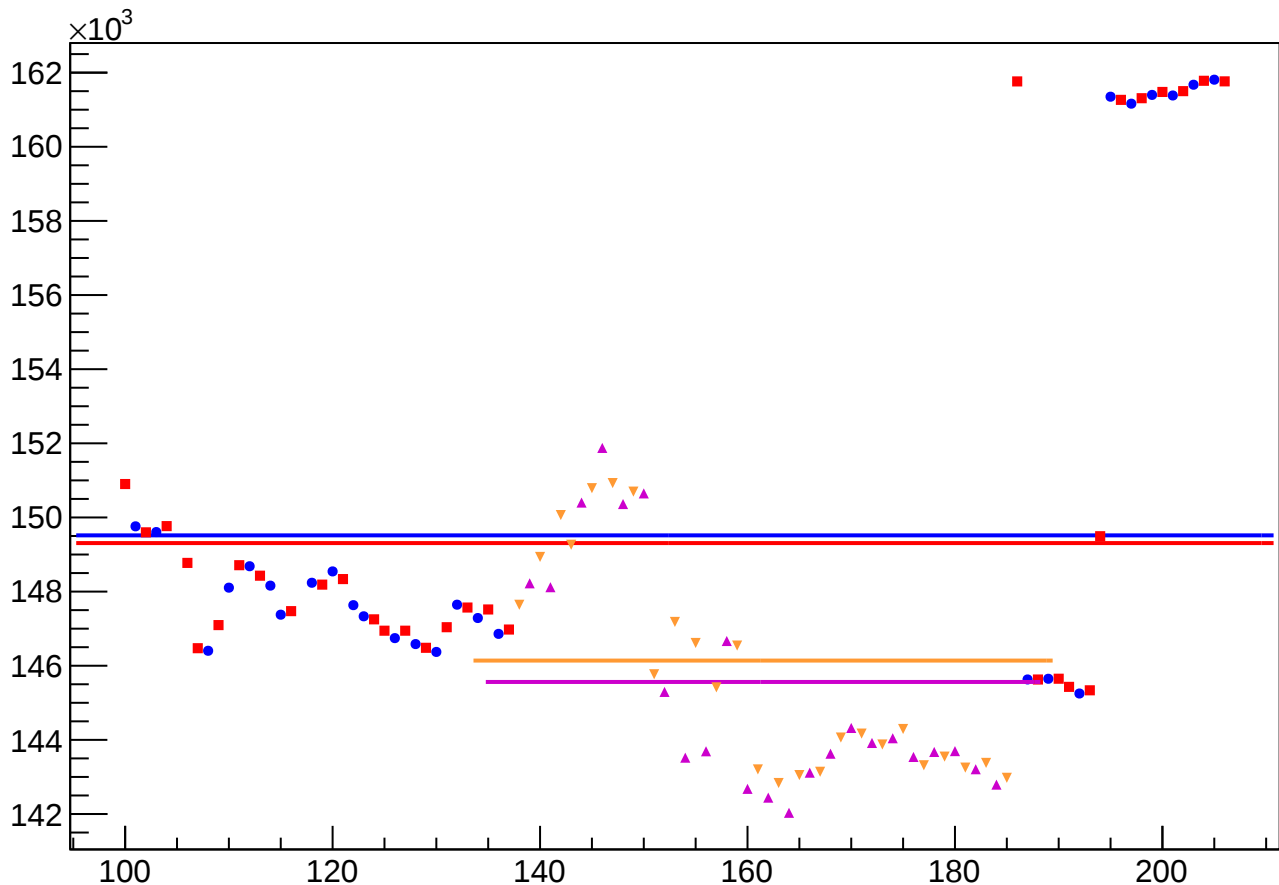
Right: 147.275 $\pm$ 0.022 χ^2 /NDF: 12112421.2/56

In: 174.087 $\pm$ 0.024 χ^2 /NDF:8217278.0/48

Out: 171.353 $\pm$ 0.023 χ^2 /NDF:9730380.3/55

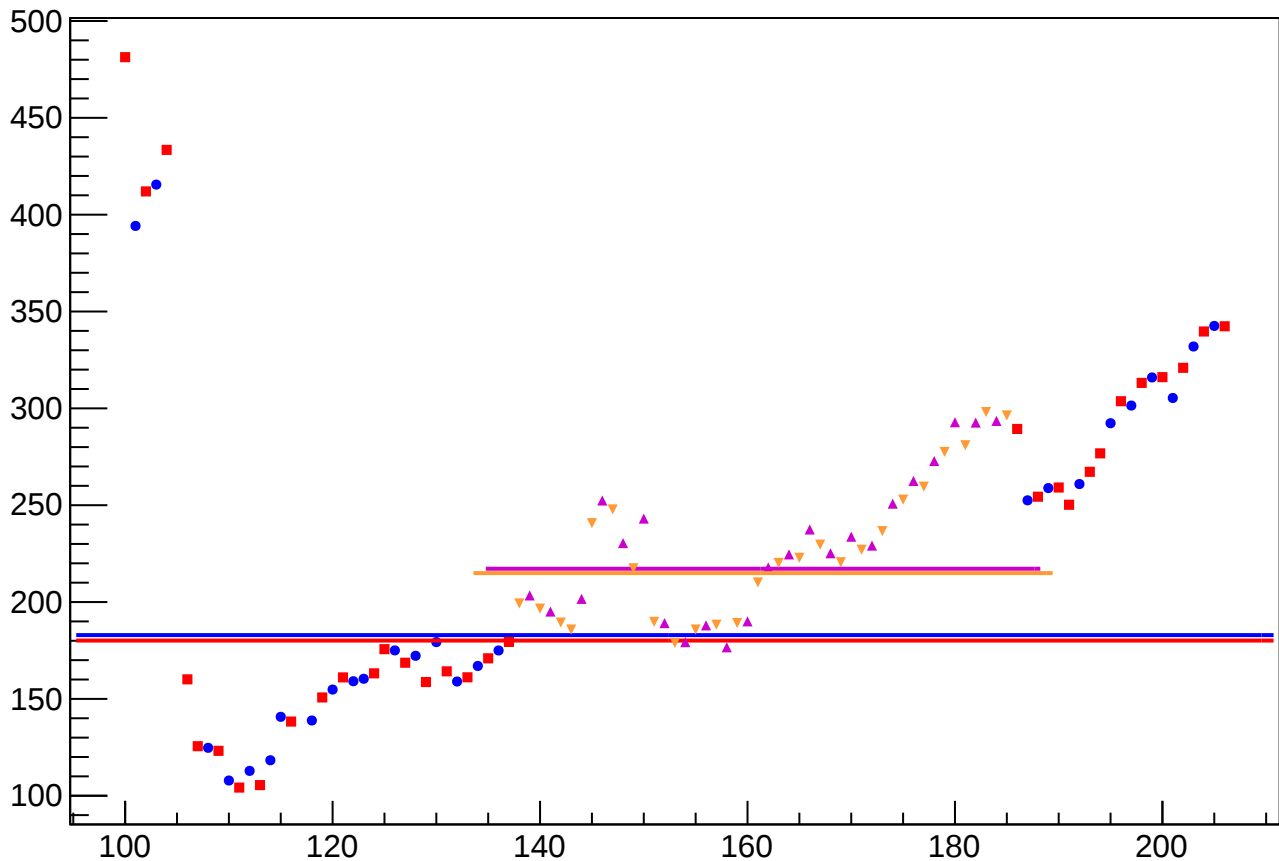
All: 172.639 $\pm$ 0.017 χ^2 /NDF: 17954402.9/10

yield_bpm1i06WS_mean vs Slug, Sign Corrected



Right In: 149517.055 $\pm$ 0.055	χ^2 /NDF: 8404344409.0/25	Left: 145862.850 $\pm$ 0.037	χ^2 /NDF: 5815743509.5/4
Left Out: 146139.326 $\pm$ 0.051	χ^2 /NDF: 2699546907.6/24	Right: 149404.308 $\pm$ 0.037	χ^2 /NDF: 17069372917.0/4
Right Out: 149308.938 $\pm$ 0.051	χ^2 /NDF: 8657365820.9/30	In: 147456.975 $\pm$ 0.038	χ^2 /NDF: 14119479231.0/4
Left In: 145562.386 $\pm$ 0.053	χ^2 /NDF: 3054641996.0/22	Out: 147724.485 $\pm$ 0.036	χ^2 /NDF: 13295787711.3/4
		All: 147599.040 $\pm$ 0.026	χ^2 /NDF: 274411723.0/4

yield_bpm1i06WS_rms vs Slug, Sign Corrected



Right In: 182.927+/-0.039 χ^2/NDF : 3709879.1/25

Left Out: 214.945+/-0.036 χ^2/NDF : 728515.5/24

Right Out: 180.121+/-0.036 χ^2/NDF : 4602844.4/30

Left In: 217.203+/-0.038 χ^2/NDF : 764798.3/22

Left: 216.027+/-0.026 χ^2/NDF : 1495200.1/47

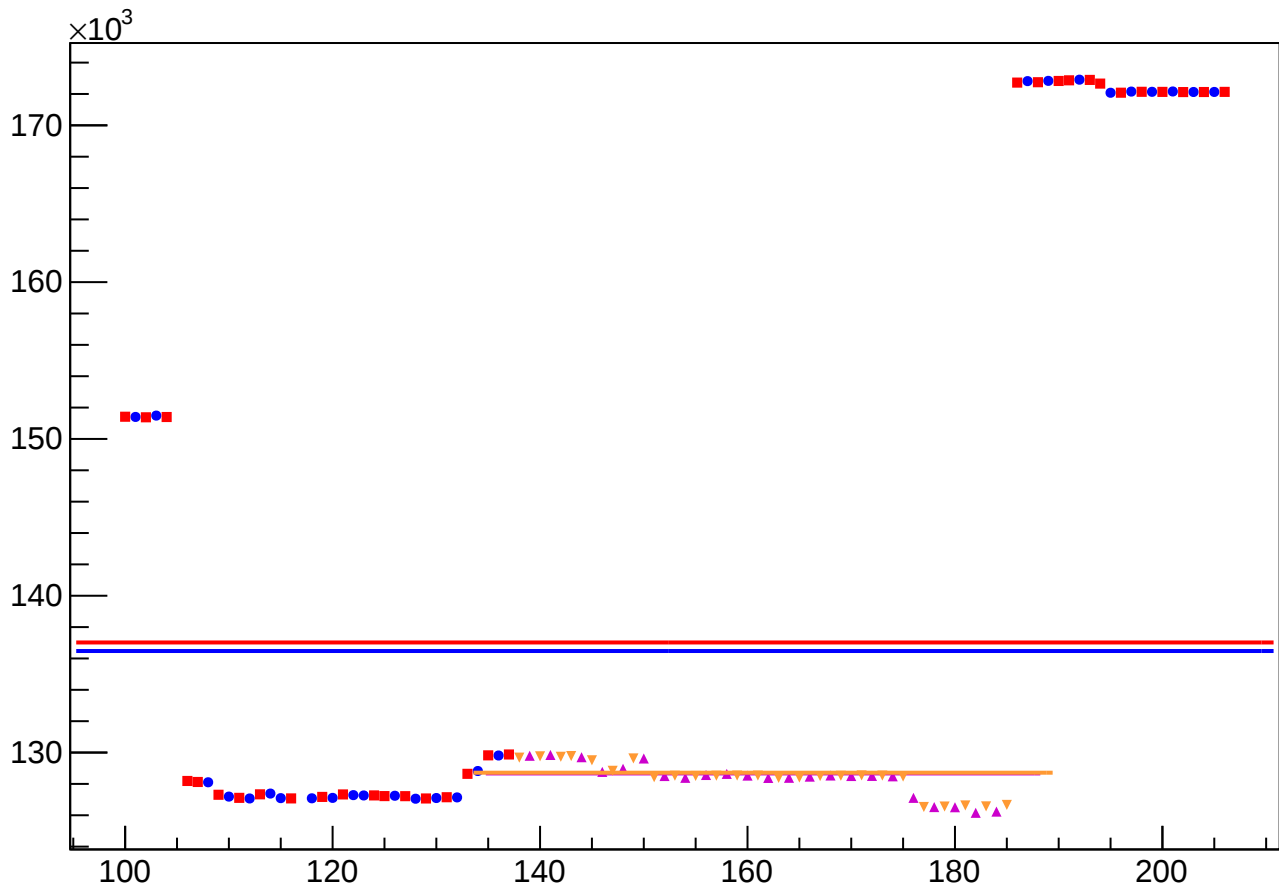
Right: 181.407+/-0.026 χ^2/NDF : 8315511.0/56

In: 200.783+/-0.027 χ^2/NDF : 4874394.2/48

Out: 197.529+/-0.025 χ^2/NDF : 5799455.8/55

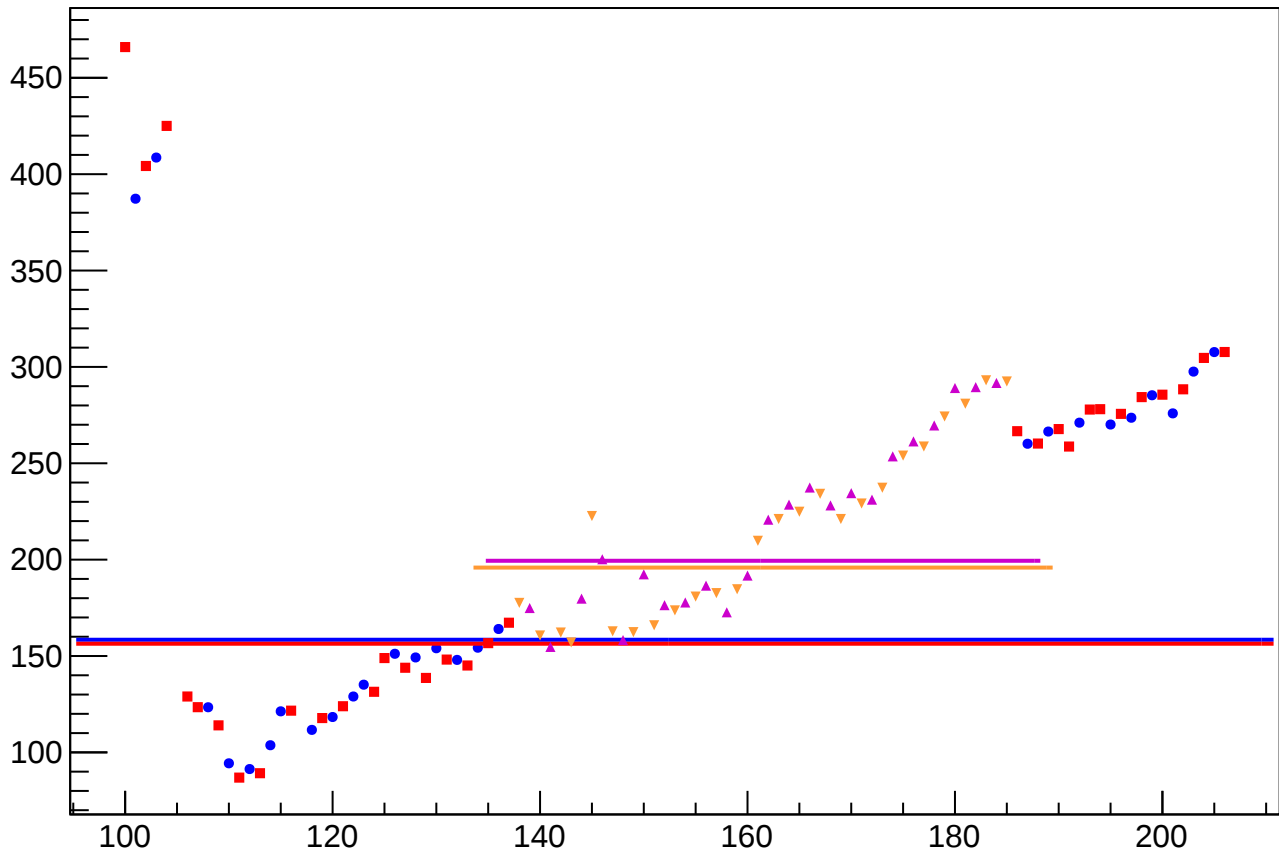
All: 199.055+/-0.019 χ^2/NDF : 10681514.3/10

yield_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: 136475.040 $\pm$ 0.049 χ^2 /NDF: 131967622031.0/25
 Left Out: 128714.507 $\pm$ 0.047 χ^2 /NDF: 348178101.1/24
 Right Out: 137020.052 $\pm$ 0.045 χ^2 /NDF: 163050265085.2/30
 Left In: 128667.013 $\pm$ 0.049 χ^2 /NDF: 333059477.6/22
 Left: 128691.898 $\pm$ 0.034 χ^2 /NDF: 681729975.4/47
 Right: 136769.674 $\pm$ 0.033 χ^2 /NDF: 295085420790
 In: 132589.409 $\pm$ 0.035 χ^2 /NDF: 145060189621.7
 Out: 133025.537 $\pm$ 0.032 χ^2 /NDF: 179817618345.
 All: 132821.634 $\pm$ 0.024 χ^2 /NDF: 324962598

yield_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 158.438 $\pm$ 0.034 χ^2 /NDF: 4440356.0/25

Left Out: 195.883 $\pm$ 0.033 χ^2 /NDF:1313361.5/24

Right Out: 156.370 $\pm$ 0.032 χ^2 /NDF: 5491526.9/30

Left In: 199.413 $\pm$ 0.035 χ^2 /NDF:1165698.7/22

Left: 197.564 $\pm$ 0.024 χ^2 /NDF: 2484502.8/47

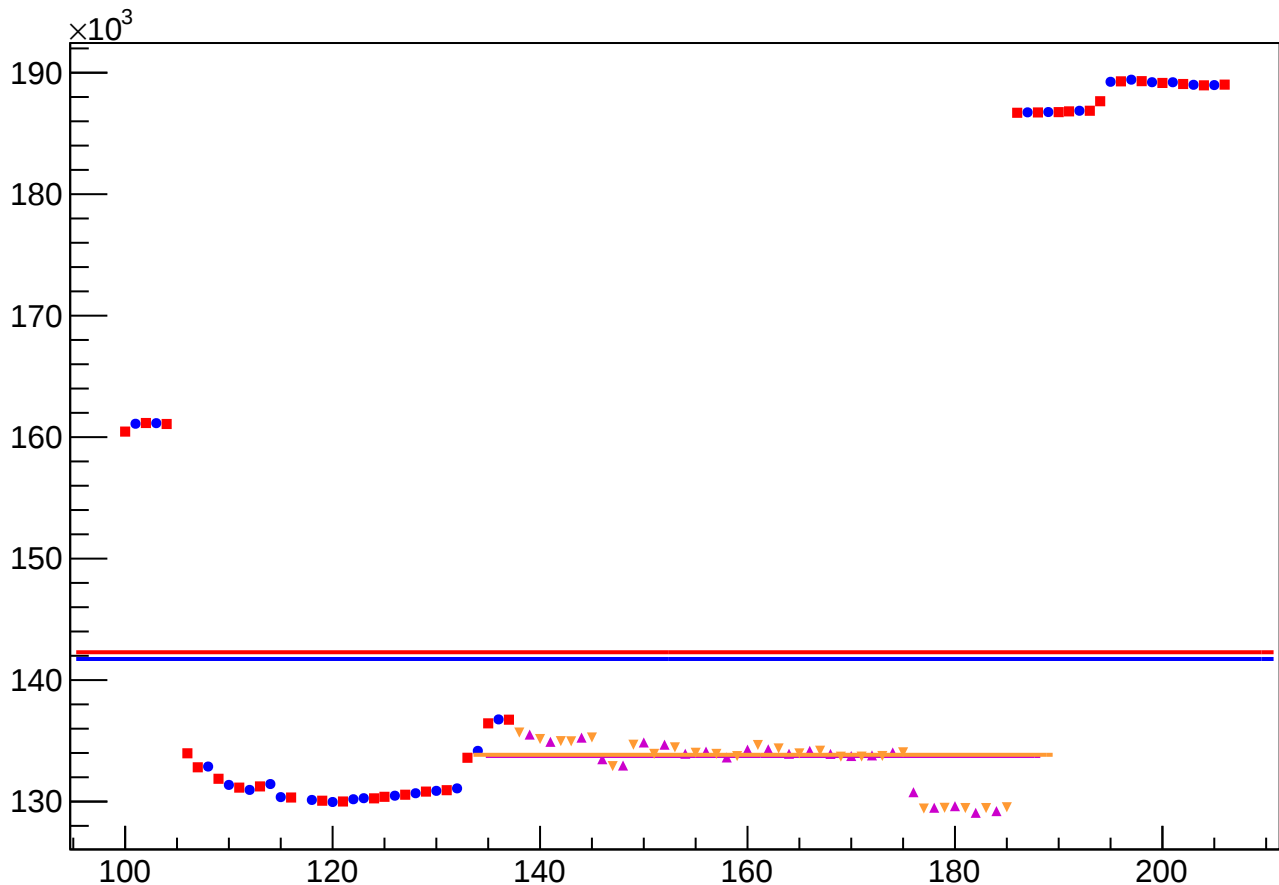
Right: 157.320 $\pm$ 0.023 χ^2 /NDF: 9933827.5/56

In: 178.829 $\pm$ 0.024 χ^2 /NDF:6308855.0/48

Out: 175.373 $\pm$ 0.023 χ^2 /NDF:7548115.9/55

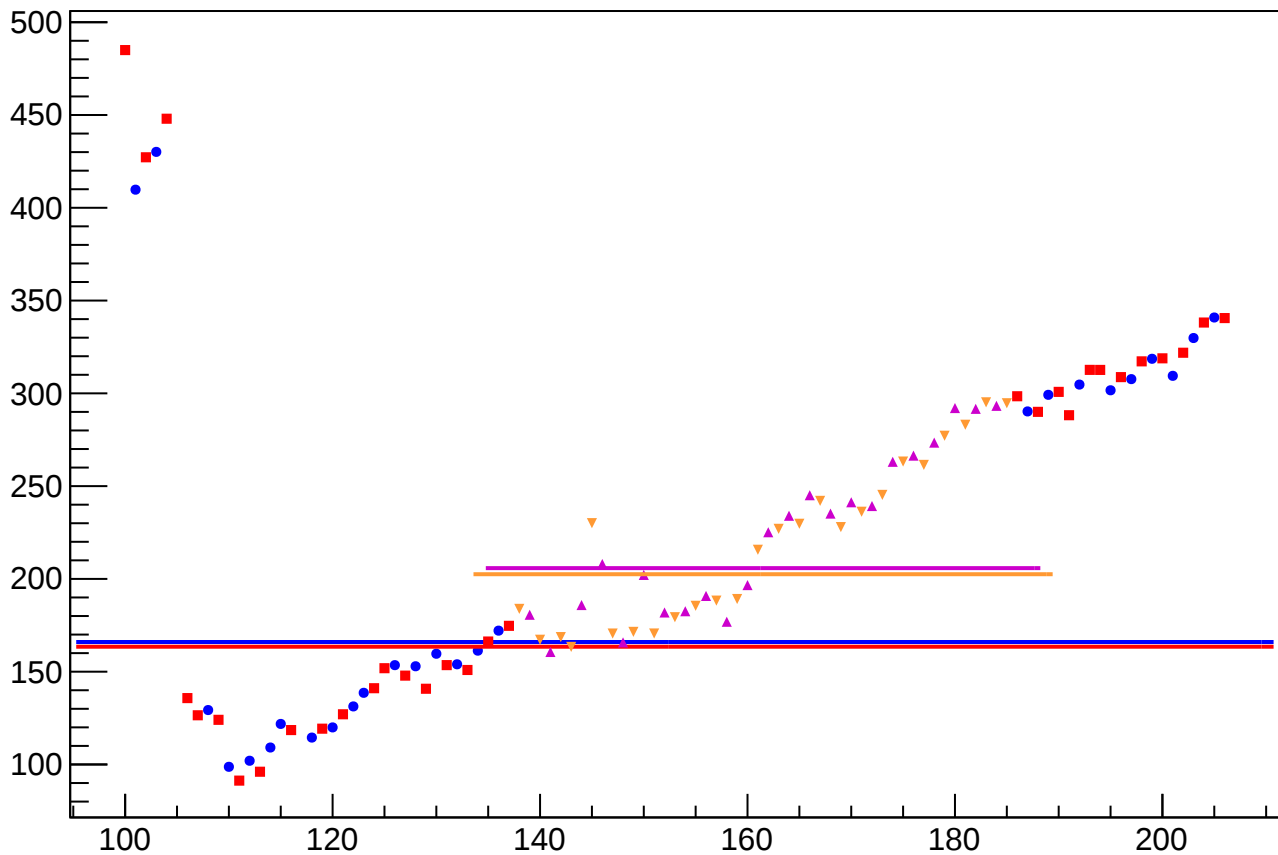
All: 176.989 $\pm$ 0.017 χ^2 /NDF: 13867618.3/100

yield_bpm2i02WS_mean vs Slug, Sign Corrected



Right In: 141736.858 $\pm$ 0.052 χ^2 /NDF: 176810331955.0/25
 Left Out: 133850.586 $\pm$ 0.048 χ^2 /NDF: 1080107831.1/24
 Right Out: 142292.391 $\pm$ 0.047 χ^2 /NDF: 214396511519.7/30
 Left In: 133749.630 $\pm$ 0.051 χ^2 /NDF: 954069486.7/22
 Left: 133802.452 $\pm$ 0.035 χ^2 /NDF: 2036267179.3/4
 Right: 142037.330 $\pm$ 0.035 χ^2 /NDF: 391269659048
 In: 137662.246 $\pm$ 0.036 χ^2 /NDF: 190011547292.3
 Out: 138135.555 $\pm$ 0.034 χ^2 /NDF: 231033161651.
 All: 137914.062 $\pm$ 0.025 χ^2 /NDF: 421136269

yield_bpm2i02WS_rms vs Slug, Sign Corrected



Right In: 165.998 $\pm$ 0.036 χ^2 /NDF: 4813528.2/25

Left Out: 202.527 $\pm$ 0.034 χ^2 /NDF:1211991.5/24

Right Out: 163.465 $\pm$ 0.034 χ^2 /NDF: 6001180.7/30

Left In: 205.808 $\pm$ 0.036 χ^2 /NDF:1094330.7/22

Left: 204.091 $\pm$ 0.025 χ^2 /NDF: 2310735.8/47

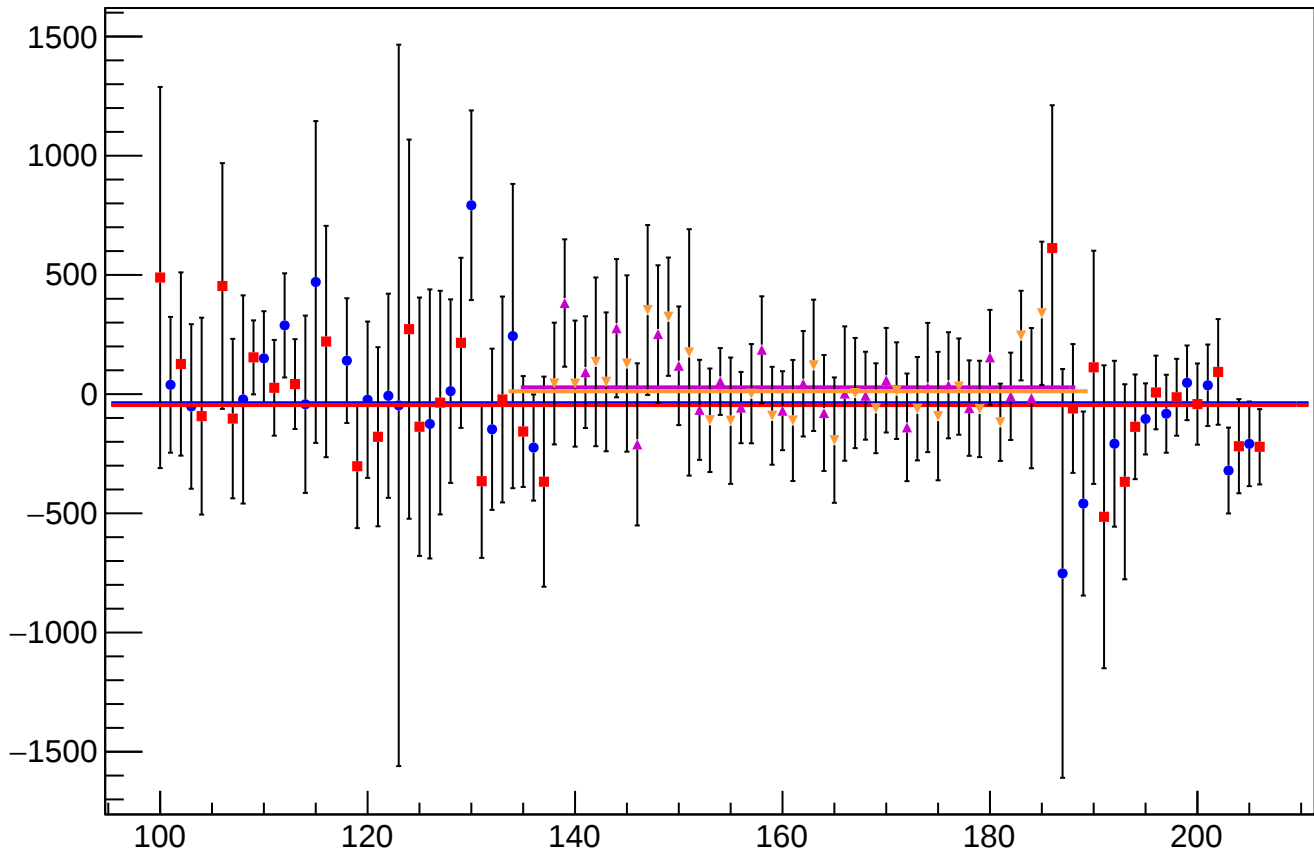
Right: 164.628 $\pm$ 0.025 χ^2 /NDF: 10817321.7/56

In: 186.307 $\pm$ 0.026 χ^2 /NDF:6516338.8/48

Out: 182.700 $\pm$ 0.024 χ^2 /NDF:7879349.8/55

All: 184.388 $\pm$ 0.017 χ^2 /NDF: 14406324.8/10

asym_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: -38.109 ± 50.280 $\chi^2/\text{NDF}: 15.9/25$

Left Out: 12.180 ± 47.531 $\chi^2/\text{NDF}: 8.6/24$

Right Out: -45.798 ± 46.911 $\chi^2/\text{NDF}: 12.7/30$

Left In: 28.452 ± 44.688 $\chi^2/\text{NDF}: 6.7/22$

Left: 20.817 ± 32.558 $\chi^2/\text{NDF}: 15.3/47$

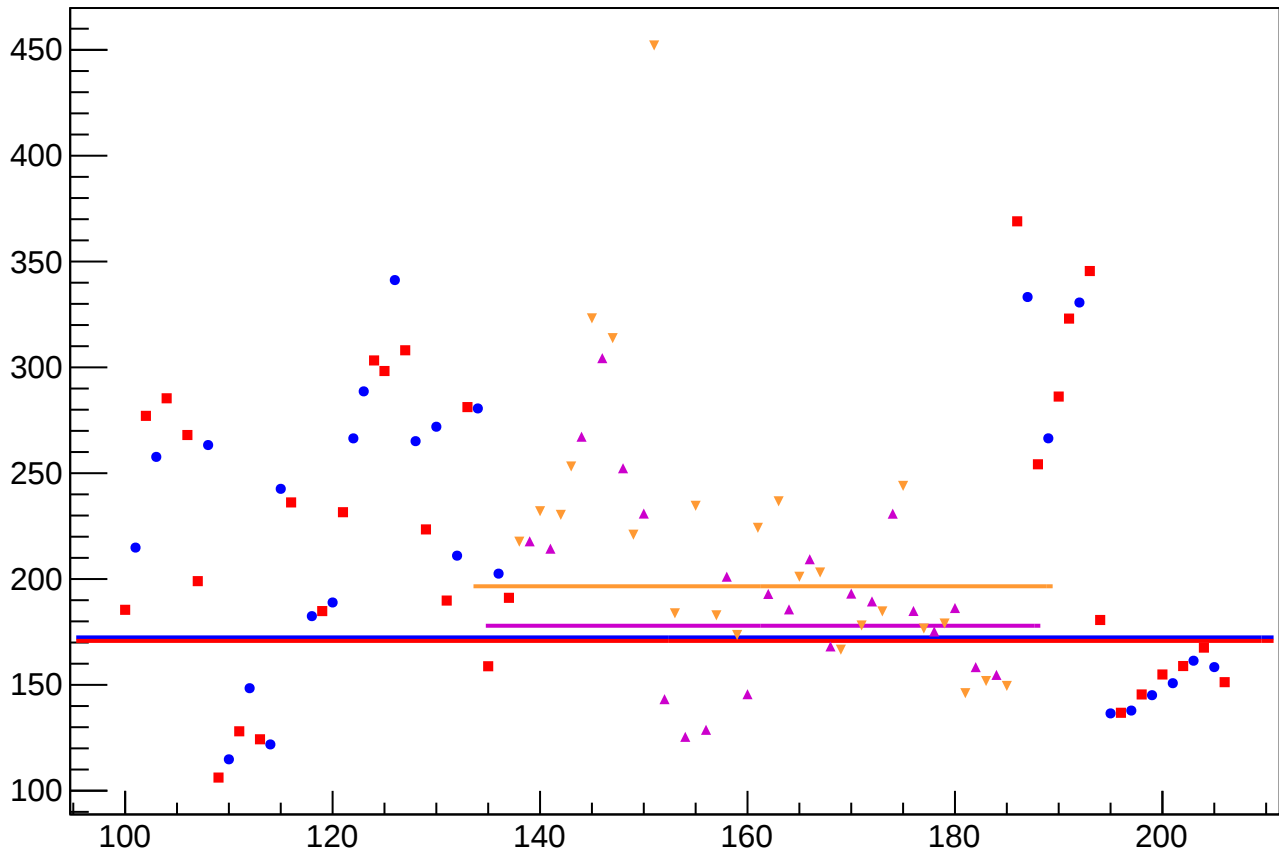
Right: -42.220 ± 34.301 $\chi^2/\text{NDF}: 28.6/56$

In: -0.923 ± 33.402 $\chi^2/\text{NDF}: 23.6/48$

Out: -17.189 ± 33.388 $\chi^2/\text{NDF}: 22.0/55$

All: -9.059 ± 23.614 $\chi^2/\text{NDF}: 45.7/104$

asym_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 172.427 $\pm$ 0.036 χ^2 /NDF: 2082935.7/25

Left Out: 196.576 $\pm$ 0.034 χ^2 /NDF:1778719.0/24

Right Out: 170.771 $\pm$ 0.033 χ^2 /NDF: 2779713.9/30

Left In: 177.933 $\pm$ 0.032 χ^2 /NDF:1605780.8/22

Left: 186.680 $\pm$ 0.023 χ^2 /NDF: 3547823.4/47

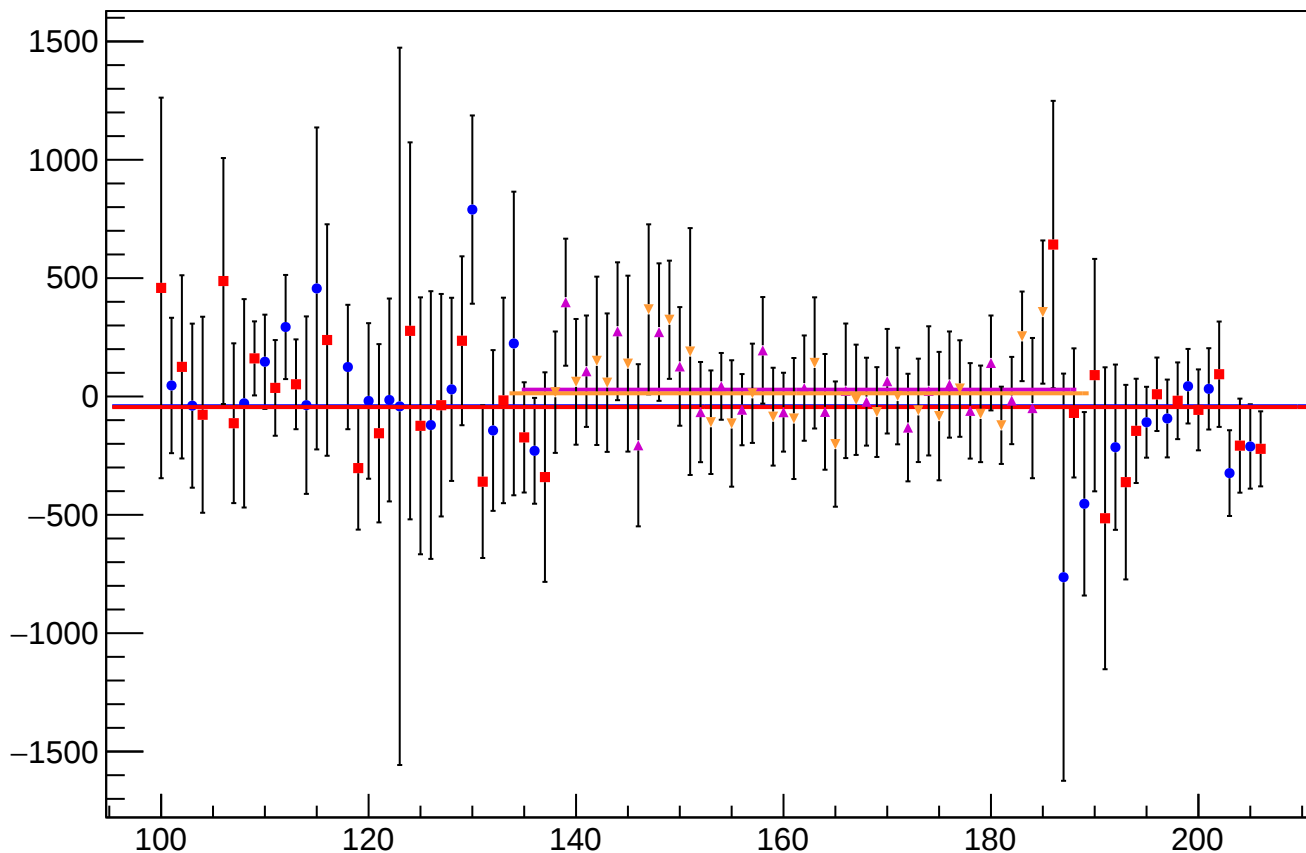
Right: 171.542 $\pm$ 0.024 χ^2 /NDF: 4863808.8/56

In: 175.503 $\pm$ 0.024 χ^2 /NDF:3702116.3/48

Out: 183.504 $\pm$ 0.024 χ^2 /NDF:4857052.1/55

All: 179.505 $\pm$ 0.017 χ^2 /NDF: 8616576.3/104

asym_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: -41.155 ± 50.526 χ^2/NDF : 15.8/25

Left Out: 13.395 ± 47.862 χ^2/NDF : 9.0/24

Right Out: -44.832 ± 47.147 χ^2/NDF : 12.9/30

Left In: 28.806 ± 44.980 χ^2/NDF : 6.8/22

Left: 21.578 ± 32.777 χ^2/NDF : 15.9/47

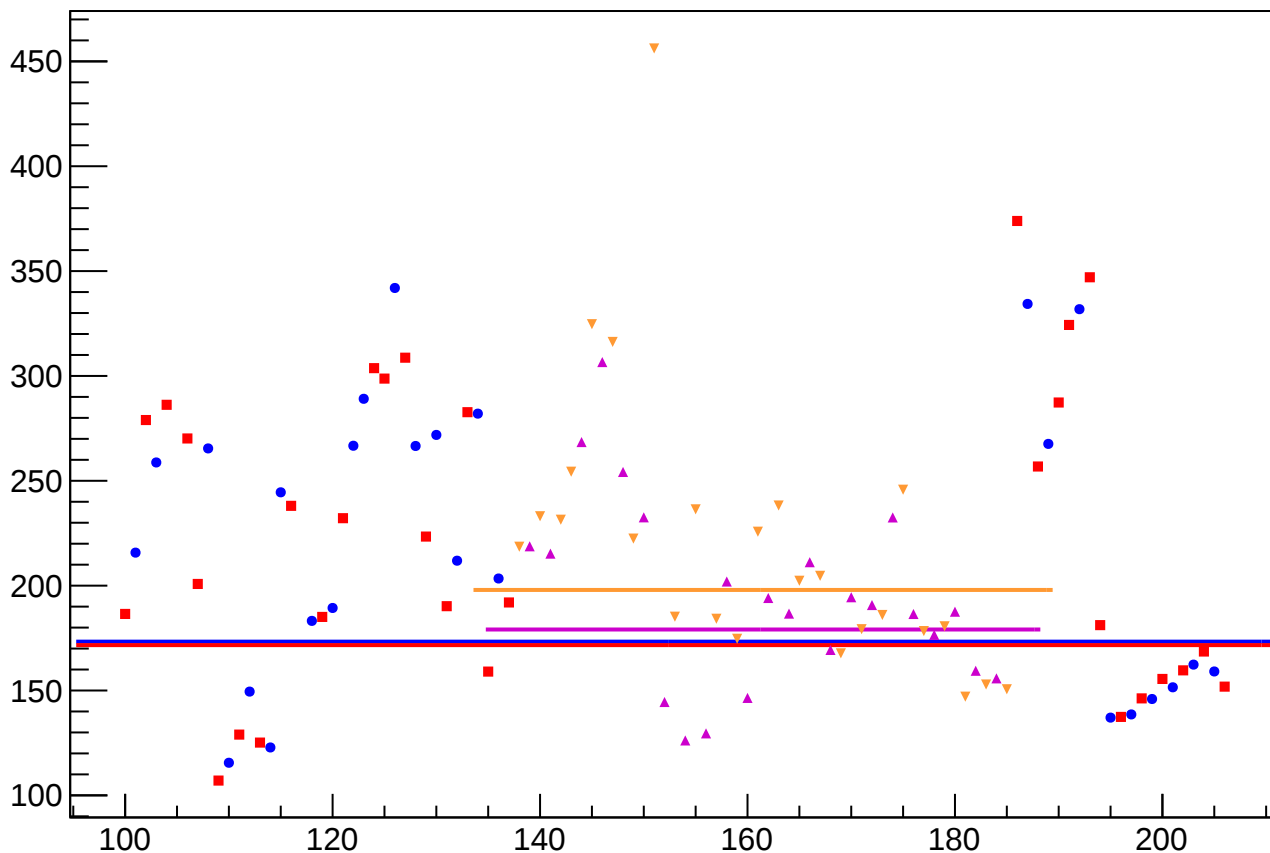
Right: -43.120 ± 34.471 χ^2/NDF : 28.7/56

In: -2.125 ± 33.596 χ^2/NDF : 23.7/48

Out: -16.157 ± 33.588 χ^2/NDF : 22.6/55

All: -9.143 ± 23.753 χ^2/NDF : 46.5/104

asym_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 173.300 $\pm$ 0.036 χ^2 /NDF: 2073665.4/25

Left Out: 197.953 $\pm$ 0.034 χ^2 /NDF:1774524.3/24

Right Out: 171.641 $\pm$ 0.033 χ^2 /NDF: 2775133.3/30

Left In: 179.090 $\pm$ 0.032 χ^2 /NDF:1605113.3/22

Left: 187.936 $\pm$ 0.023 χ^2 /NDF: 3544595.8/47

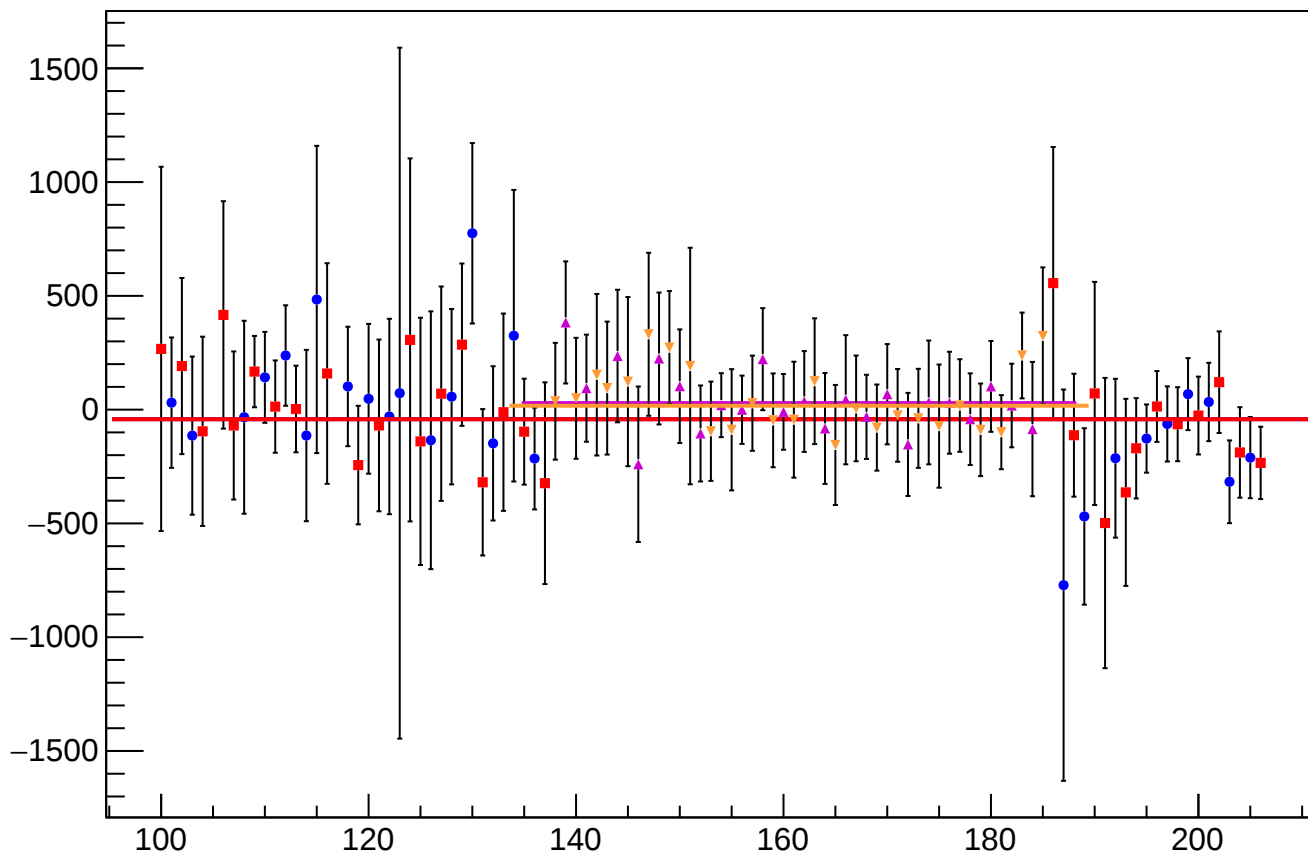
Right: 172.414 $\pm$ 0.024 χ^2 /NDF: 4849951.0/56

In: 176.530 $\pm$ 0.024 χ^2 /NDF:3693428.3/48

Out: 184.599 $\pm$ 0.024 χ^2 /NDF:4856411.2/55

All: 180.565 $\pm$ 0.017 χ^2 /NDF: 8607537.8/104

asym_bcm_an_us_mean vs Slug, Sign Corrected



Right In: -41.987 ± 50.601 χ^2/NDF : 15.3/25

Left Out: 17.142 ± 47.738 χ^2/NDF : 7.1/24

Right Out: -42.141 ± 47.155 χ^2/NDF : 11.7/30

Left In: 28.655 ± 44.859 χ^2/NDF : 6.1/22

Left: 23.256 ± 32.690 χ^2/NDF : 13.2/47

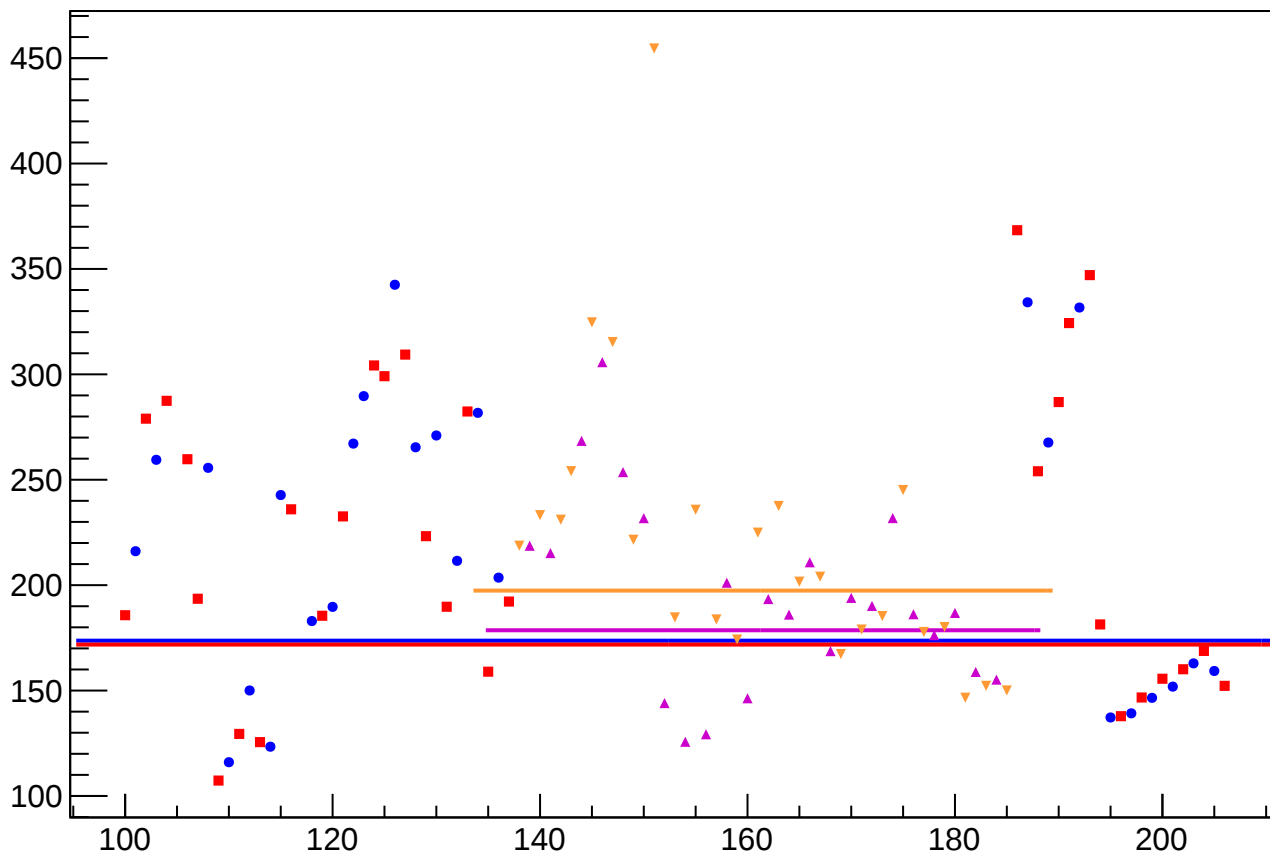
Right: -42.069 ± 34.498 χ^2/NDF : 27.0/56

In: -2.432 ± 33.568 χ^2/NDF : 22.6/48

Out: -12.864 ± 33.548 χ^2/NDF : 19.5/55

All: -7.651 ± 23.729 χ^2/NDF : 42.1/104

asym_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 173.671 $\pm$ 0.036 χ^2 /NDF: 2042811.4/25

Left Out: 197.422 $\pm$ 0.034 χ^2 /NDF:1780261.9/24

Right Out: 171.811 $\pm$ 0.033 χ^2 /NDF: 2729984.4/30

Left In: 178.601 $\pm$ 0.032 χ^2 /NDF:1608998.1/22

Left: 187.427 $\pm$ 0.023 χ^2 /NDF: 3554344.1/47

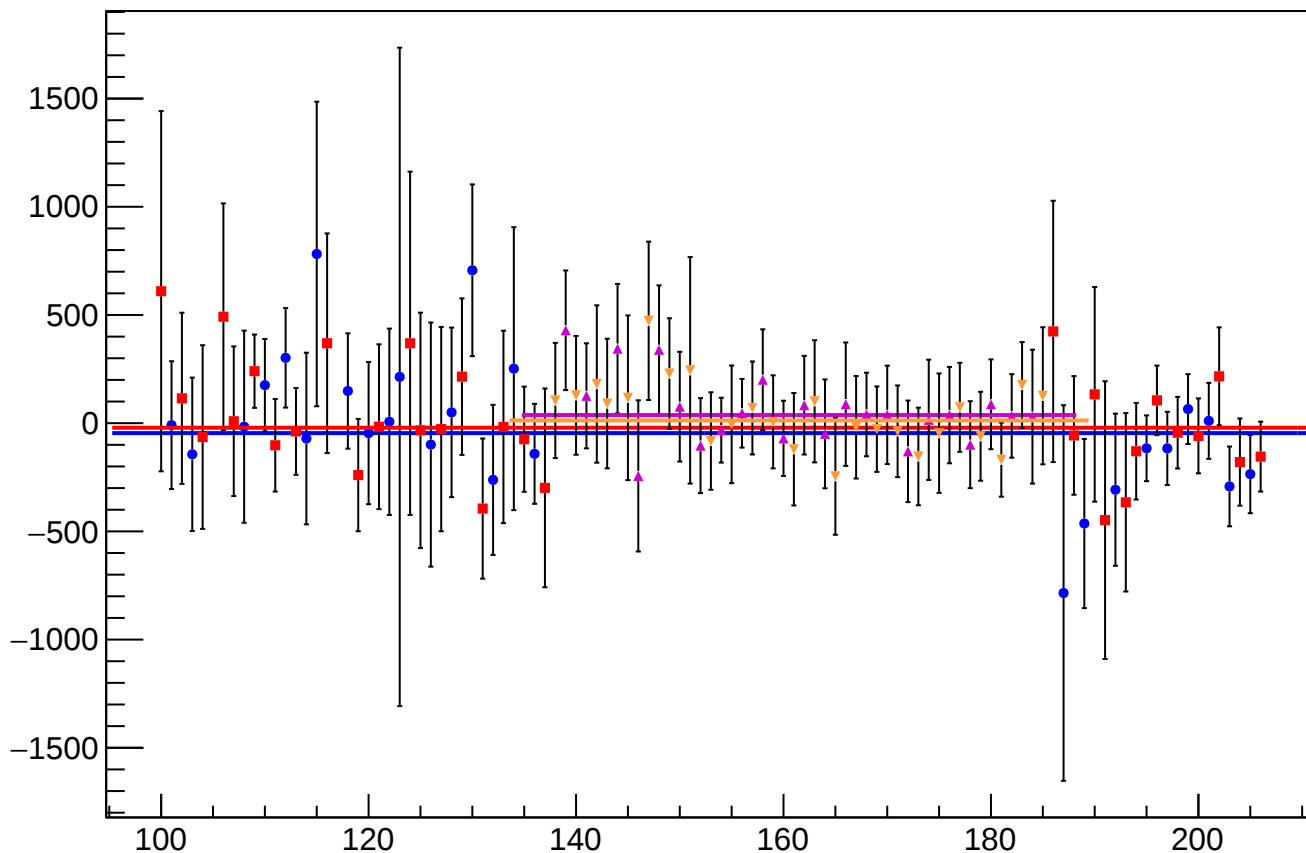
Right: 172.676 $\pm$ 0.024 χ^2 /NDF: 4774242.3/56

In: 176.432 $\pm$ 0.024 χ^2 /NDF:3662440.1/48

Out: 184.459 $\pm$ 0.024 χ^2 /NDF:4801600.4/55

All: 180.448 $\pm$ 0.017 χ^2 /NDF: 8521262.6/104

asym_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: -45.967 ± 51.755 χ^2/NDF : 16.1/25

Left Out: 12.632 ± 49.242 χ^2/NDF : 7.5/24

Right Out: -20.982 ± 48.472 χ^2/NDF : 13.0/30

Left In: 37.460 ± 46.479 χ^2/NDF : 7.6/22

Left: 25.762 ± 33.800 χ^2/NDF : 15.3/47

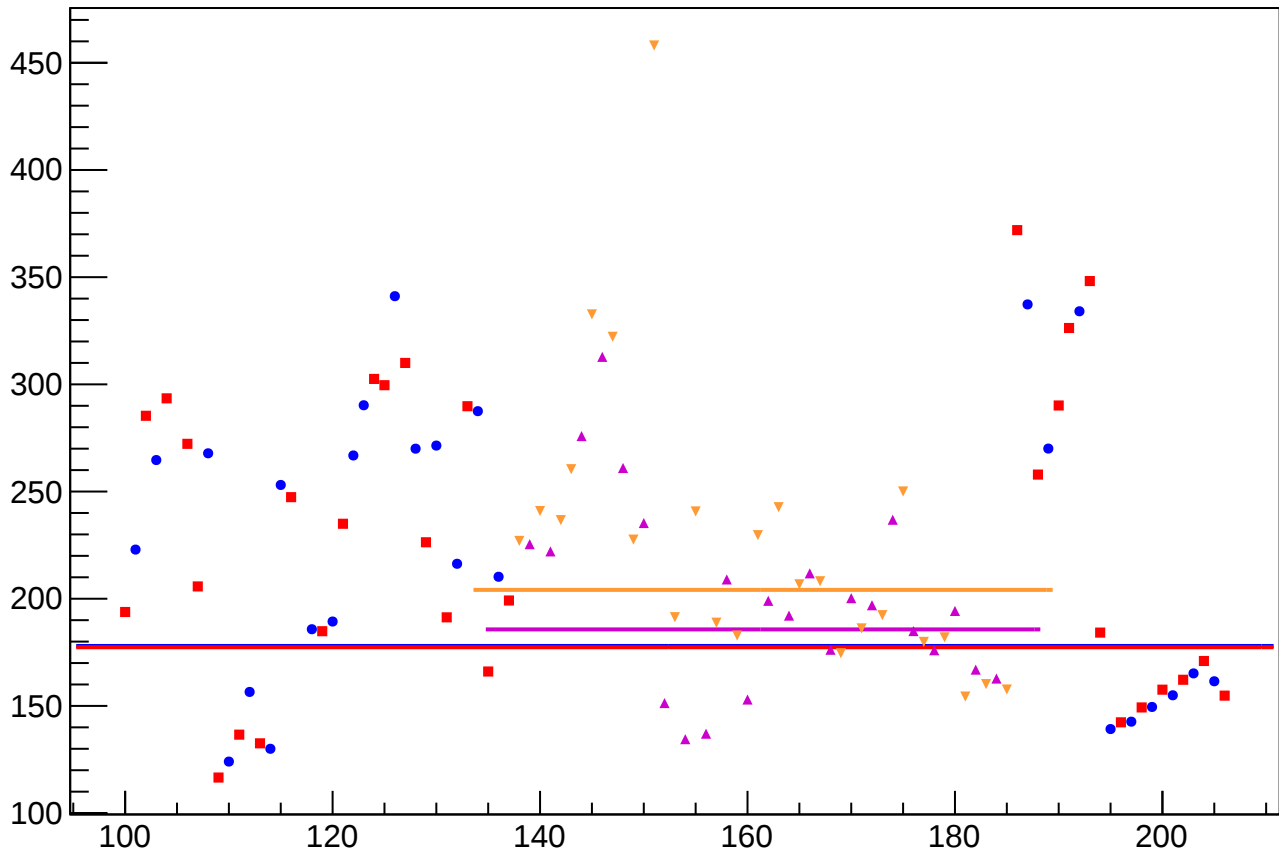
Right: -32.658 ± 35.379 χ^2/NDF : 29.3/56

In: 0.214 ± 34.581 χ^2/NDF : 25.2/48

Out: -4.440 ± 34.544 χ^2/NDF : 20.8/55

All: -2.115 ± 24.439 χ^2/NDF : 46.0/104

asym_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 177.955 ± 0.037 χ^2/NDF : 1966697.9/25

Left Out: 204.132 ± 0.035 χ^2/NDF : 1672287.6/24

Right Out: 177.366 ± 0.034 χ^2/NDF : 2545766.2/30

Left In: 185.694 ± 0.033 χ^2/NDF : 1447767.0/22

Left: 194.381 ± 0.024 χ^2/NDF : 3268347.9/47

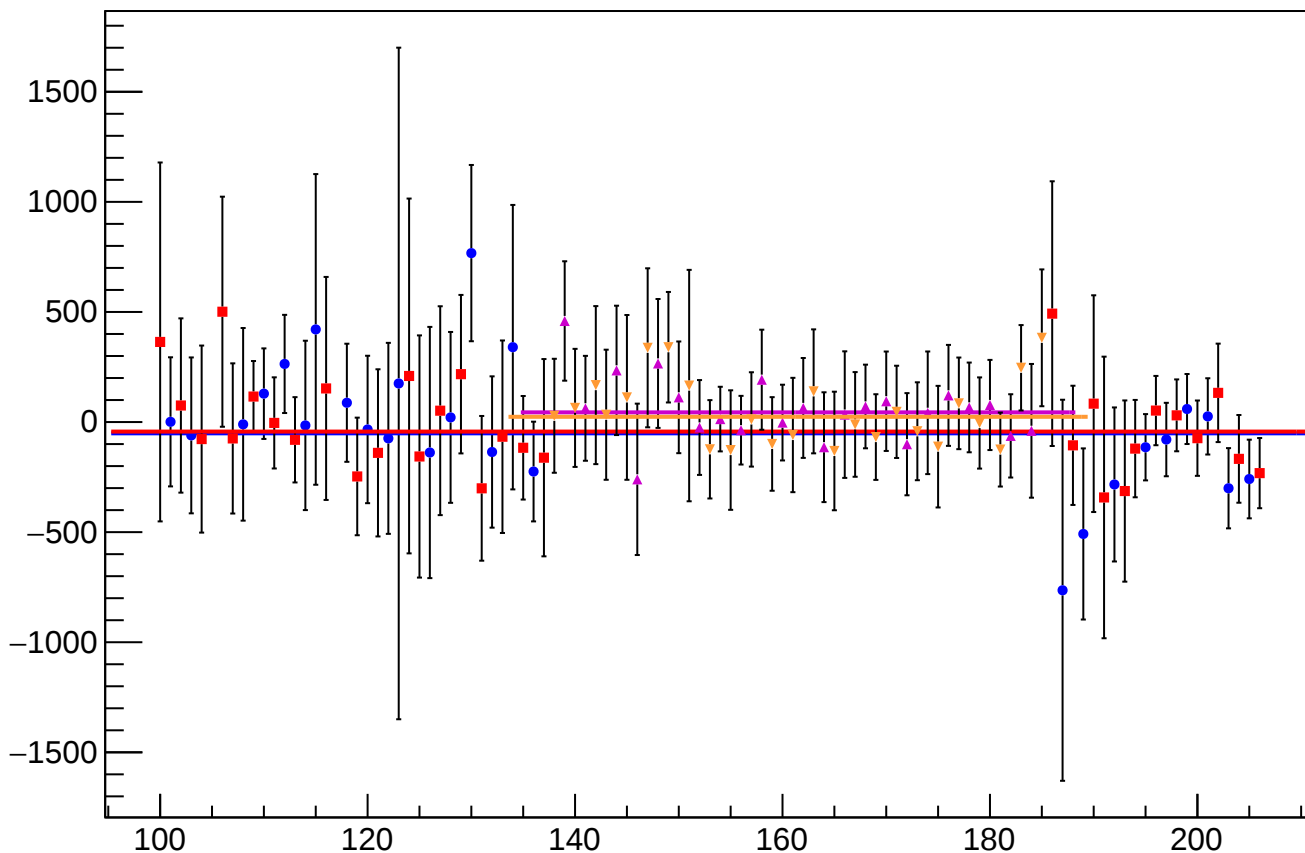
Right: 177.641 ± 0.025 χ^2/NDF : 4512602.1/56

In: 182.239 ± 0.024 χ^2/NDF : 3439216.4/48

Out: 190.538 ± 0.024 χ^2/NDF : 4518158.2/55

All: 186.393 ± 0.017 χ^2/NDF : 8015034.6/104

asym_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: -51.223 ± 51.106 χ^2/NDF : 15.4/25

Left Out: 23.843 ± 48.783 χ^2/NDF : 8.5/24

Right Out: -43.245 ± 47.698 χ^2/NDF : 9.5/30

Left In: 43.978 ± 45.981 χ^2/NDF : 6.5/22

Left: 34.506 ± 33.460 χ^2/NDF : 15.1/47

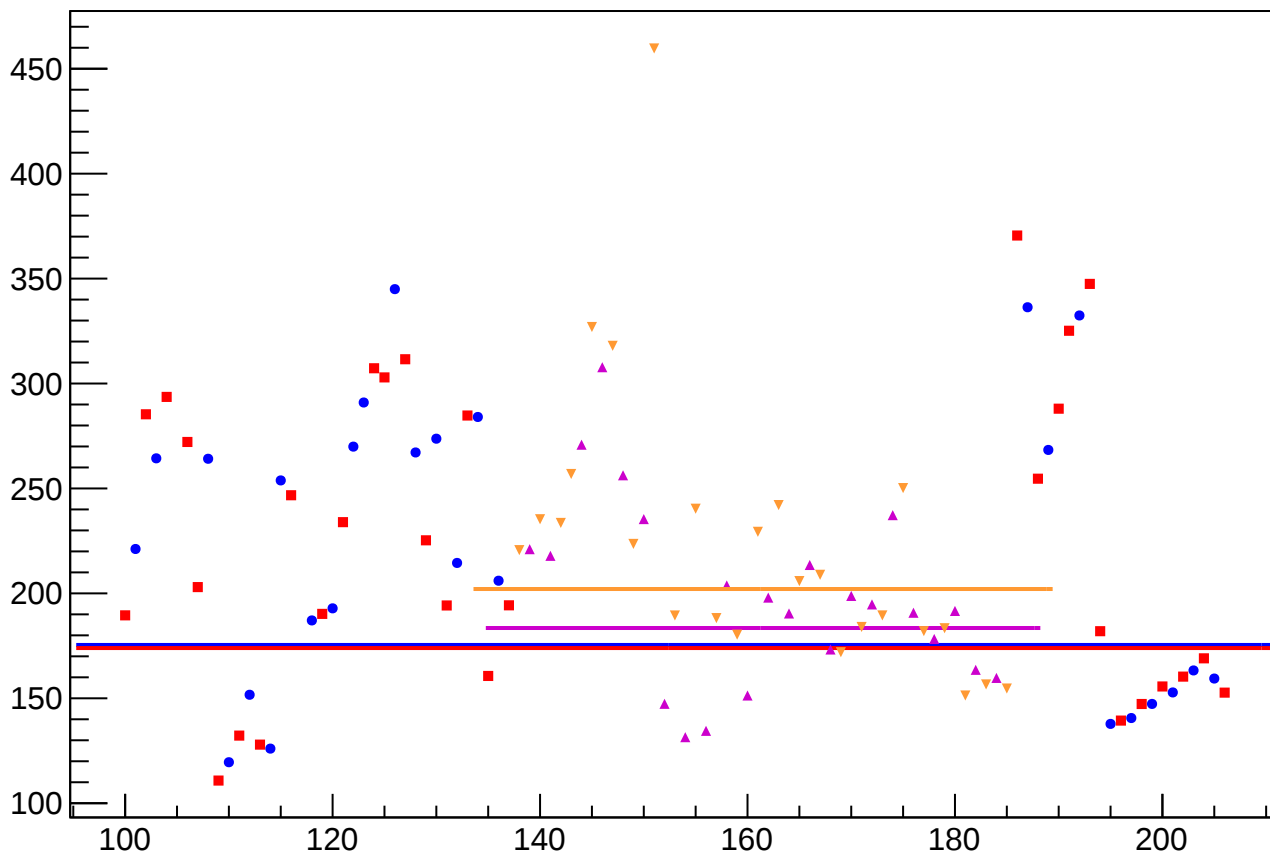
Right: -46.959 ± 34.870 χ^2/NDF : 24.9/56

In: 1.389 ± 34.182 χ^2/NDF : 23.9/48

Out: -10.455 ± 34.105 χ^2/NDF : 18.9/55

All: -4.546 ± 24.143 χ^2/NDF : 42.8/104

asym_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 175.420 $\pm$ 0.036 χ^2 /NDF: 2049070.5/25

Left Out: 202.081 $\pm$ 0.034 χ^2 /NDF:1692787.9/24

Right Out: 173.945 $\pm$ 0.034 χ^2 /NDF: 2708850.2/30

Left In: 183.498 $\pm$ 0.033 χ^2 /NDF:1483383.4/22

Left: 192.240 $\pm$ 0.024 χ^2 /NDF: 3329846.6/47

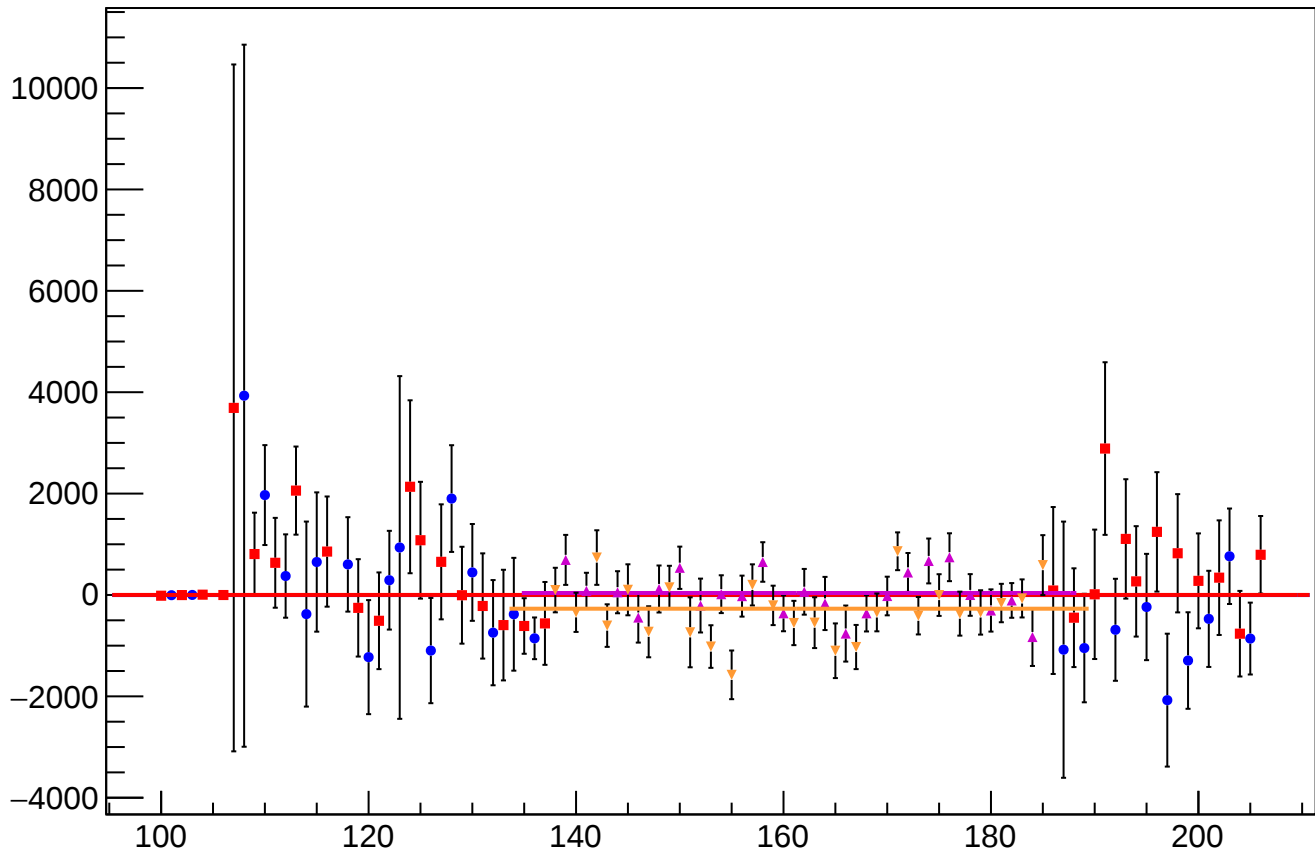
Right: 174.632 $\pm$ 0.025 χ^2 /NDF: 4758810.8/56

In: 179.884 $\pm$ 0.024 χ^2 /NDF:3560069.2/48

Out: 187.697 $\pm$ 0.024 χ^2 /NDF:4741752.8/55

All: 183.799 $\pm$ 0.017 χ^2 /NDF: 8354176.1/104

asym_cav4bQ_mean vs Slug, Sign Corrected



Right In: -1.560 ± 2.251 χ^2/NDF : 25.8/25

Left Out: -270.969 ± 86.967 χ^2/NDF : 38.1/24

Right Out: 0.743 ± 2.111 χ^2/NDF : 26.8/30

Left In: 39.078 ± 87.769 χ^2/NDF : 20.3/22

Left: -117.369 ± 61.777 χ^2/NDF : 64.7/47

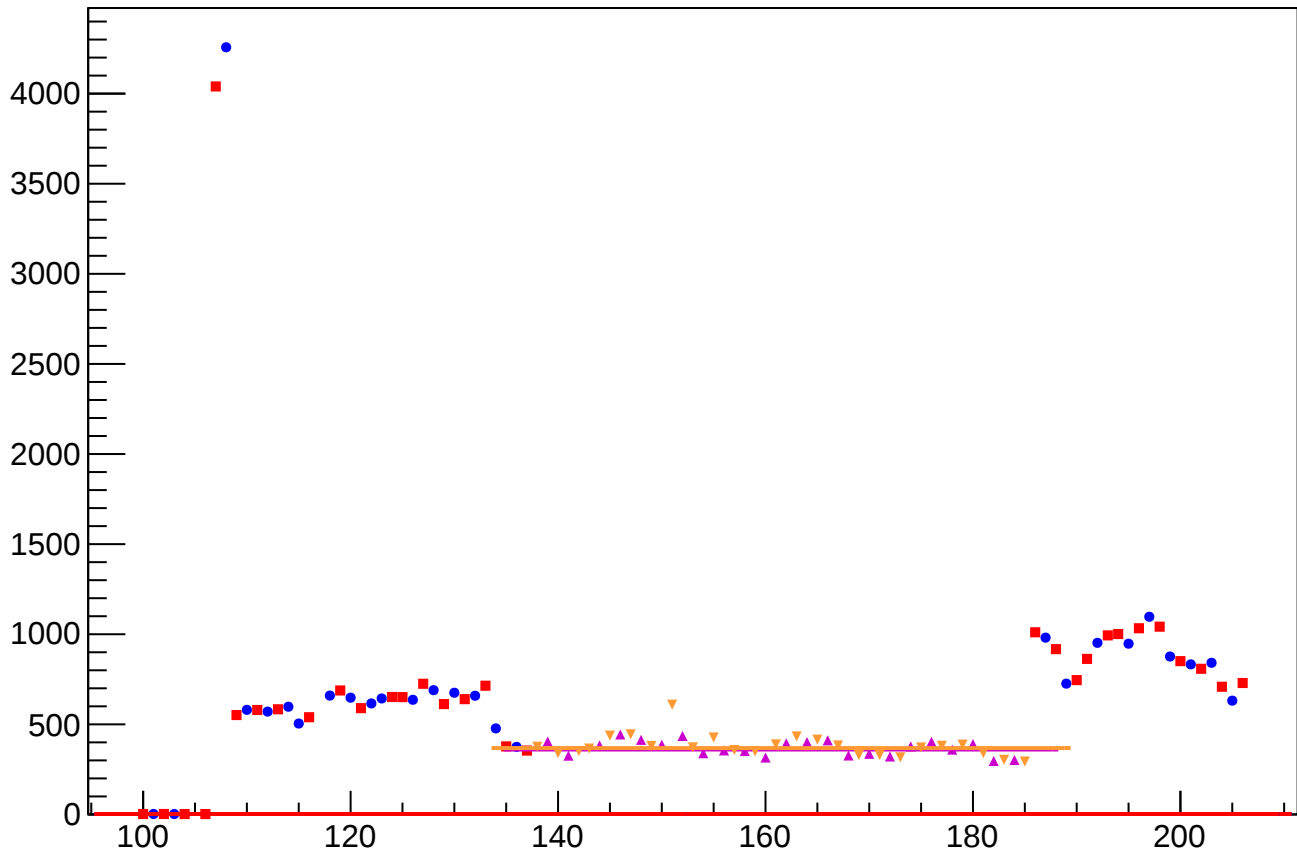
Right: -0.334 ± 1.540 χ^2/NDF : 53.2/56

In: -1.533 ± 2.251 χ^2/NDF : 46.3/48

Out: 0.583 ± 2.110 χ^2/NDF : 74.7/55

All: -0.407 ± 1.539 χ^2/NDF : 121.4/104

asym_cav4bQ_rms vs Slug, Sign Corrected



Right In: 2.493+/-0.002 χ^2/NDF : 23202816.5/25

Left Out: 368.397+/-0.061 χ^2/NDF : 622466.1/24

Right Out: 2.477+/-0.001 χ^2/NDF : 26886741.7/30

Left In: 360.408+/-0.062 χ^2/NDF : 417739.4/22

Left: 364.439+/-0.044 χ^2/NDF : 1048566.0/47

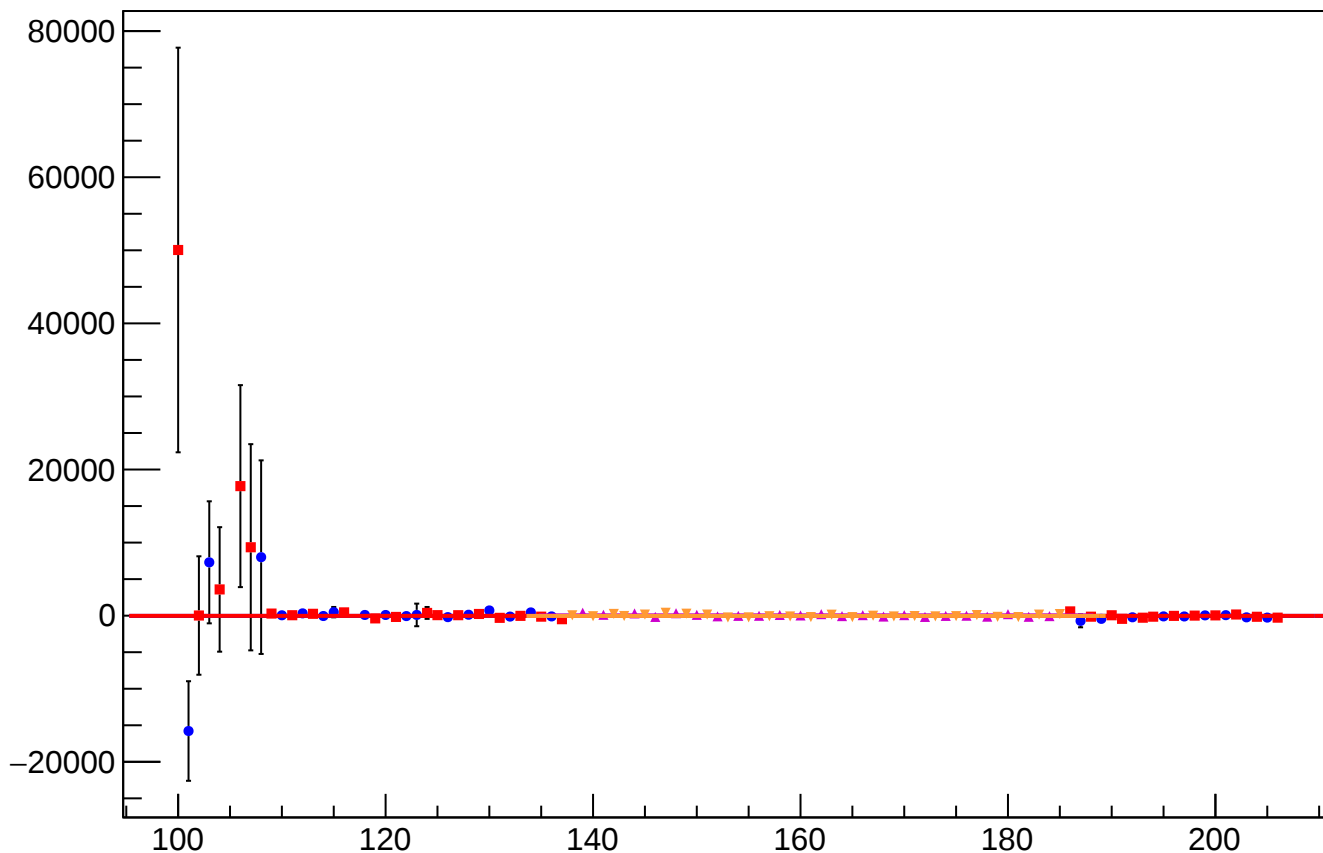
Right: 2.484+/-0.001 χ^2/NDF : 50089617.6/56

In: 2.729+/-0.002 χ^2/NDF : 56857165.7/48

Out: 2.692+/-0.001 χ^2/NDF : 62895523.5/55

All: 2.709+/-0.001 χ^2/NDF : 119752972.0/104

asym_cav4cQ_mean vs Slug, Sign Corrected



Right In: -31.389 ± 56.132 $\chi^2/\text{NDF}: 19.3/25$

Left Out: -38.013 ± 49.628 $\chi^2/\text{NDF}: 9.3/24$

Right Out: -24.755 ± 53.276 $\chi^2/\text{NDF}: 19.9/30$

Left In: 28.205 ± 48.167 $\chi^2/\text{NDF}: 9.2/22$

Left: -3.915 ± 34.564 $\chi^2/\text{NDF}: 19.4/47$

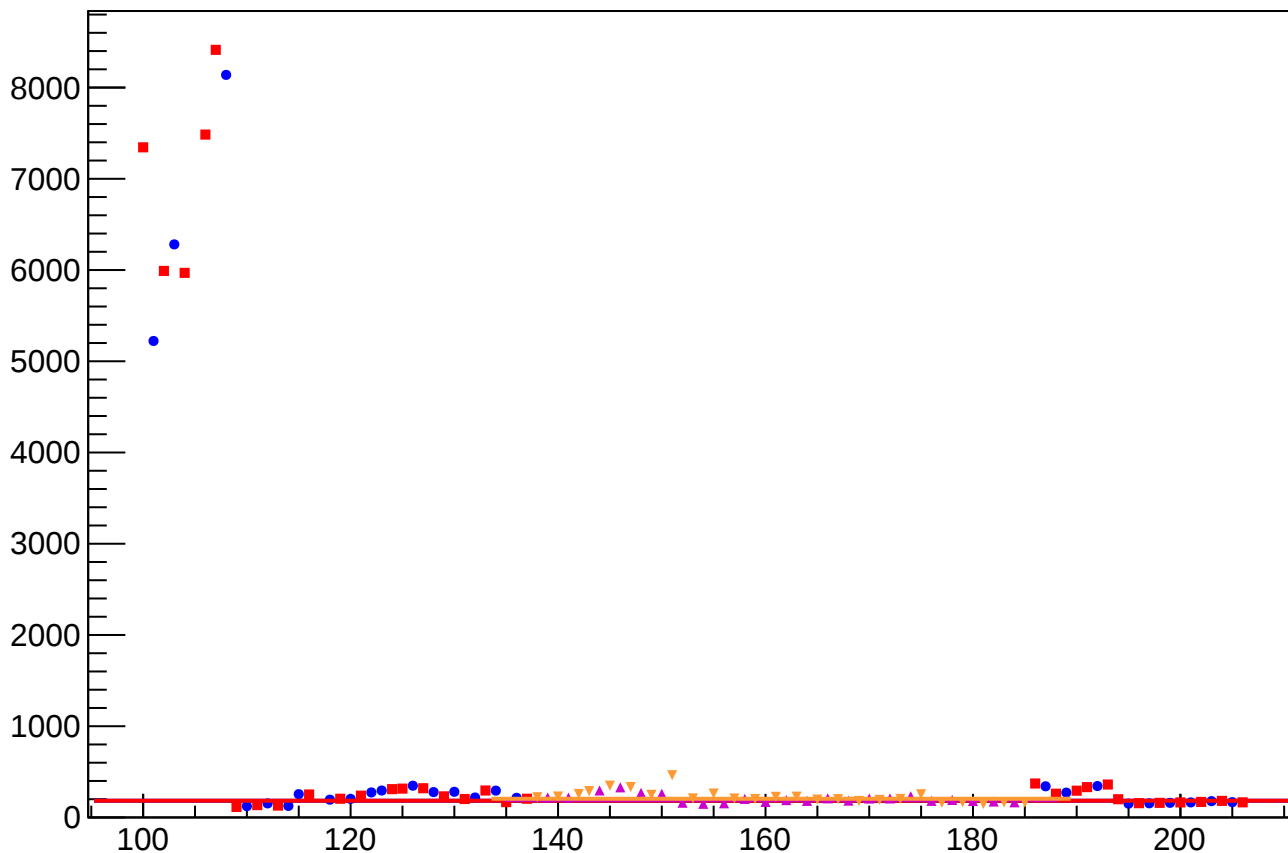
Right: -27.899 ± 38.642 $\chi^2/\text{NDF}: 39.2/56$

In: 2.933 ± 36.554 $\chi^2/\text{NDF}: 29.2/48$

Out: -31.853 ± 36.314 $\chi^2/\text{NDF}: 29.2/55$

All: -14.575 ± 25.762 $\chi^2/\text{NDF}: 58.9/104$

asym_cav4cQ_rms vs Slug, Sign Corrected



Right In: 182.770 $\pm$ 0.040 χ^2 /NDF: 4496631.4/25

Left Out: 205.027 $\pm$ 0.035 χ^2 /NDF:1956045.1/24

Right Out: 183.449 $\pm$ 0.038 χ^2 /NDF: 5354205.6/30

Left In: 193.405 $\pm$ 0.034 χ^2 /NDF:1172169.3/22

Left: 199.042 $\pm$ 0.024 χ^2 /NDF: 3184695.4/47

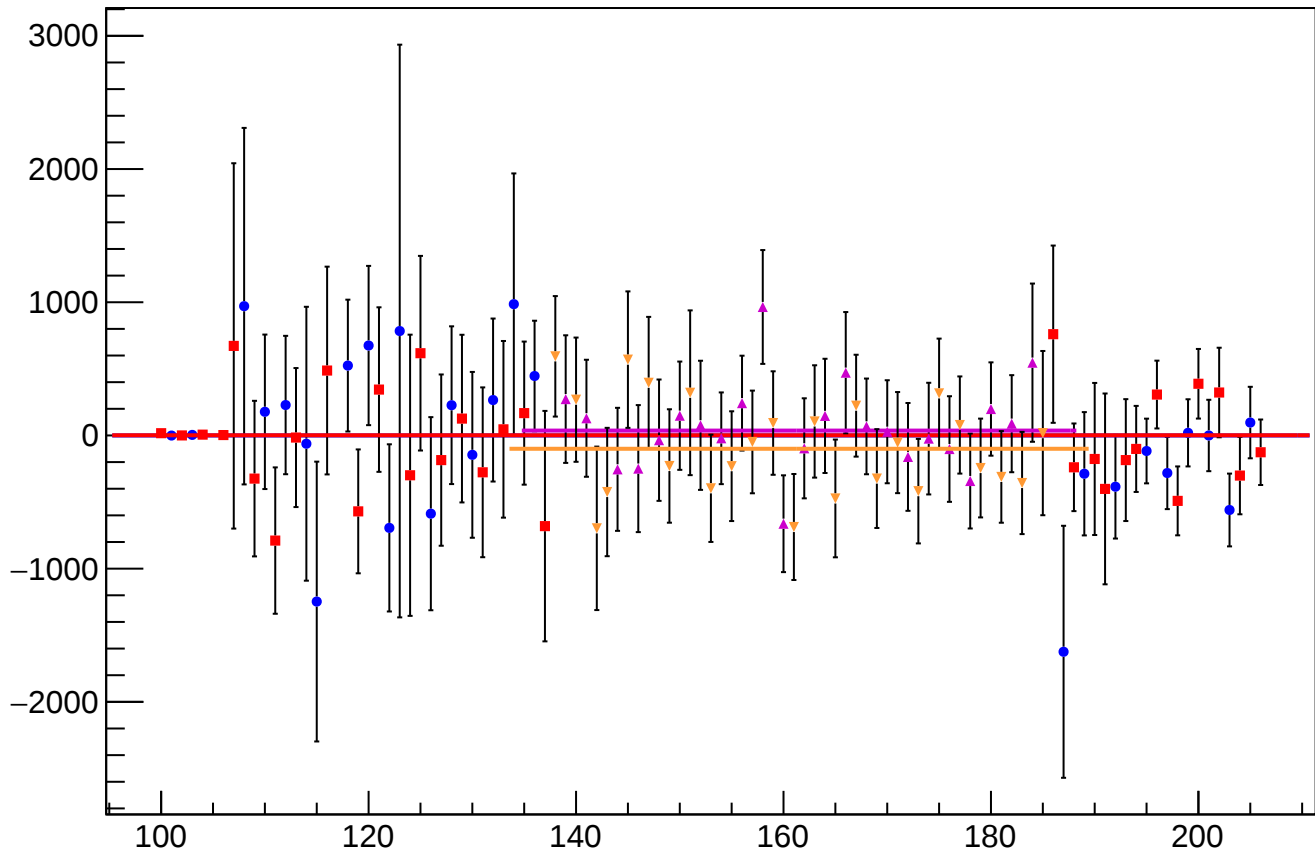
Right: 183.127 $\pm$ 0.027 χ^2 /NDF: 9850990.9/56

In: 188.895 $\pm$ 0.026 χ^2 /NDF:5710145.2/48

Out: 195.002 $\pm$ 0.026 χ^2 /NDF:7485905.9/55

All: 191.969 $\pm$ 0.018 χ^2 /NDF: 13224148.6/10

asym_cav4dQ_mean vs Slug, Sign Corrected



Right In: -0.192 $\pm$ 1.736 χ^2/NDF : 20.0/25

Left Out: -100.058 $\pm$ 84.190 χ^2/NDF :15.7/24

Right Out: 1.313 $\pm$ 1.622 χ^2/NDF : 21.4/30

Left In: 36.497 $\pm$ 84.675 χ^2/NDF :13.5/22

Left: -32.173 $\pm$ 59.702 χ^2/NDF : 30.5/47

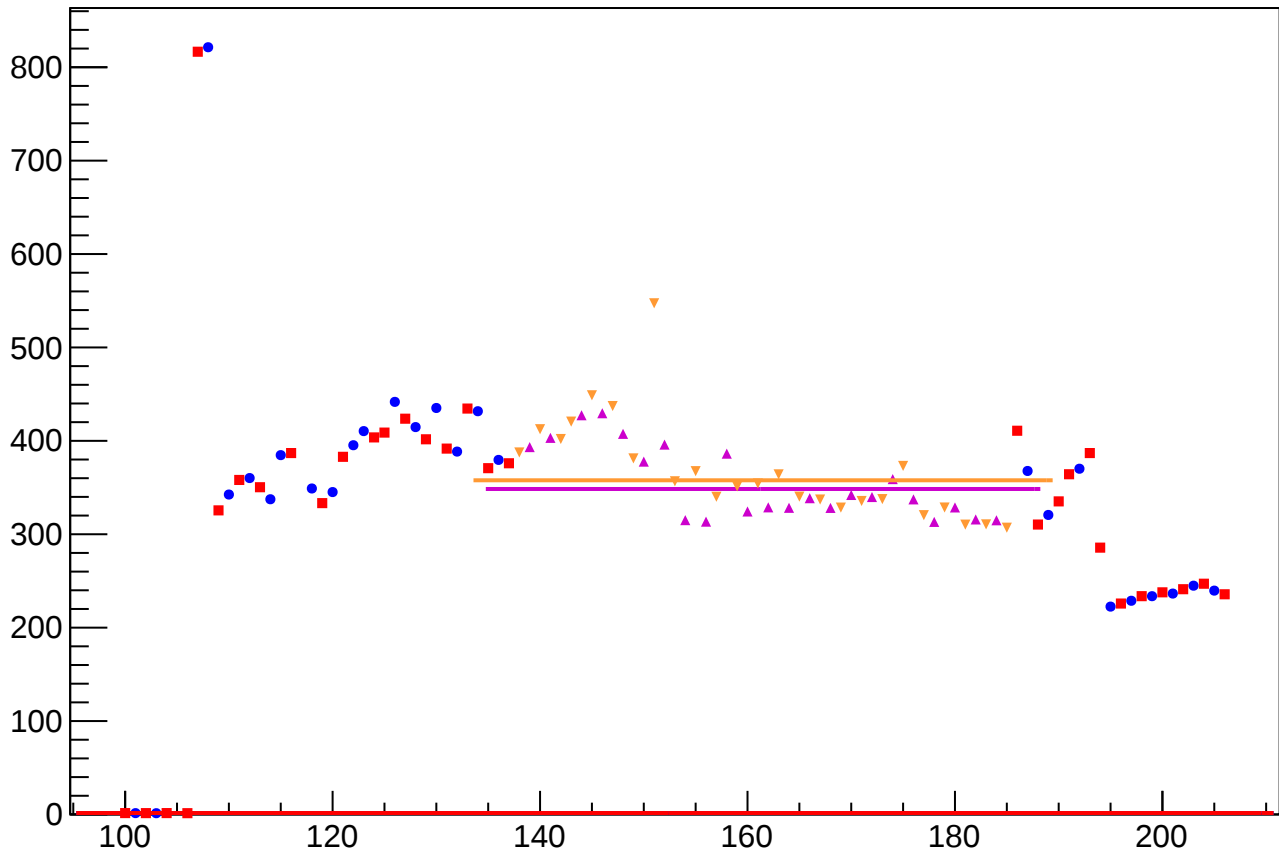
Right: 0.612 $\pm$ 1.185 χ^2/NDF : 41.8/56

In: -0.177 $\pm$ 1.736 χ^2/NDF :33.7/48

Out: 1.276 $\pm$ 1.622 χ^2/NDF :38.6/55

All: 0.599 $\pm$ 1.185 χ^2/NDF : 72.6/104

asym_cav4dQ_rms vs Slug, Sign Corrected



Right In: 1.527 $\pm$ 0.001 χ^2/NDF : 23421445.5/25

Left Out: 357.771 $\pm$ 0.060 χ^2/NDF : 547124.8/24

Right Out: 1.528 $\pm$ 0.001 χ^2/NDF : 26582654.8/30

Left In: 348.464 $\pm$ 0.060 χ^2/NDF : 360425.7/22

Left: 353.145 $\pm$ 0.042 χ^2/NDF : 919701.2/47

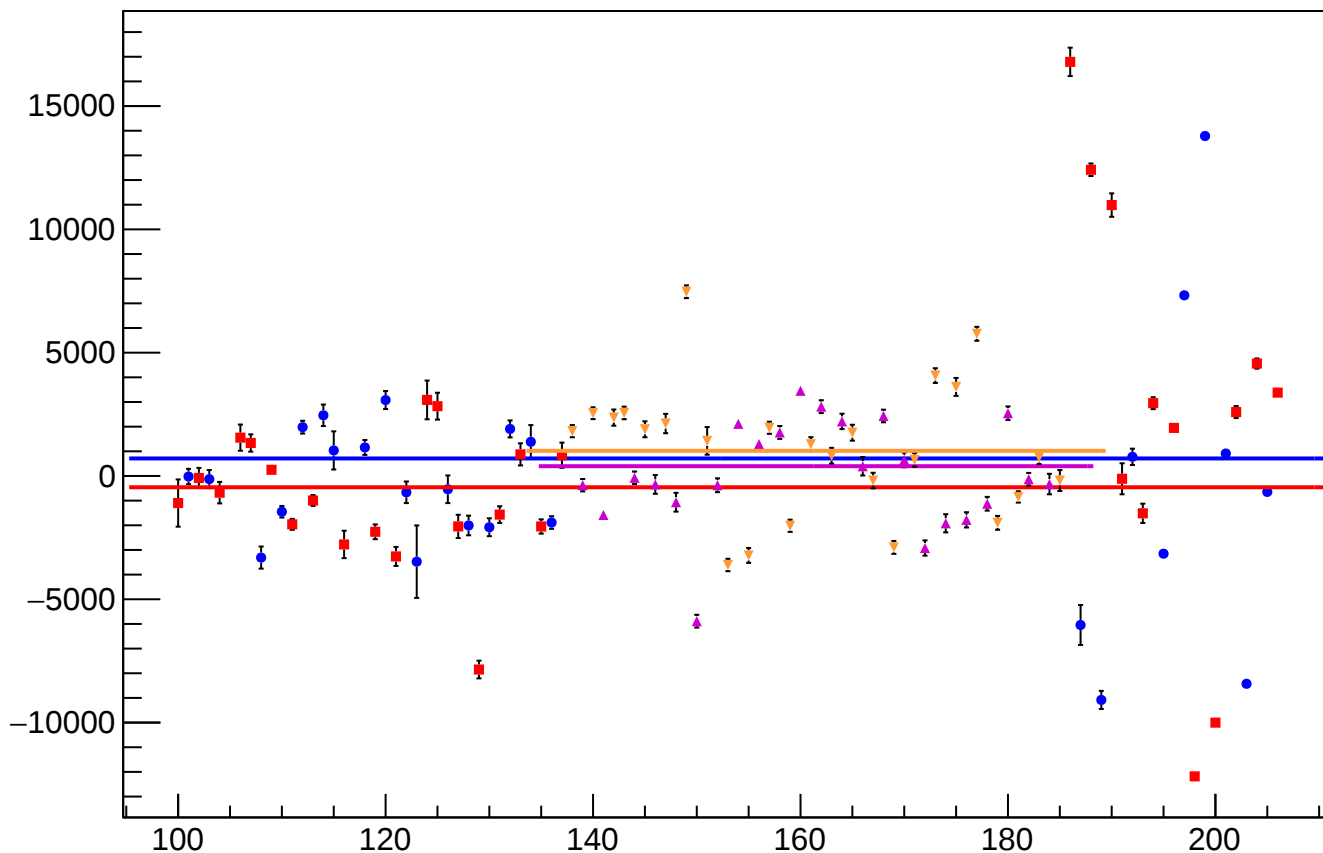
Right: 1.528 $\pm$ 0.001 χ^2/NDF : 50004100.9/56

In: 1.673 $\pm$ 0.001 χ^2/NDF : 57342917.2/48

Out: 1.660 $\pm$ 0.001 χ^2/NDF : 62926451.8/55

All: 1.666 $\pm$ 0.001 χ^2/NDF : 120269423.0/104

asym_bcm0l02_mean vs Slug, Sign Corrected



Right In: 710.020 $\pm$ 55.767 χ^2 /NDF: 10661.9/25

Left Out: 1018.965 $\pm$ 57.402 χ^2 /NDF:2310.1/24

Right Out: -458.566 $\pm$ 51.552 χ^2 /NDF: 13211.0/30

Left In: 396.609 $\pm$ 55.090 χ^2 /NDF:1581.0/22

Left: 695.002 $\pm$ 39.747 χ^2 /NDF: 3952.3/47

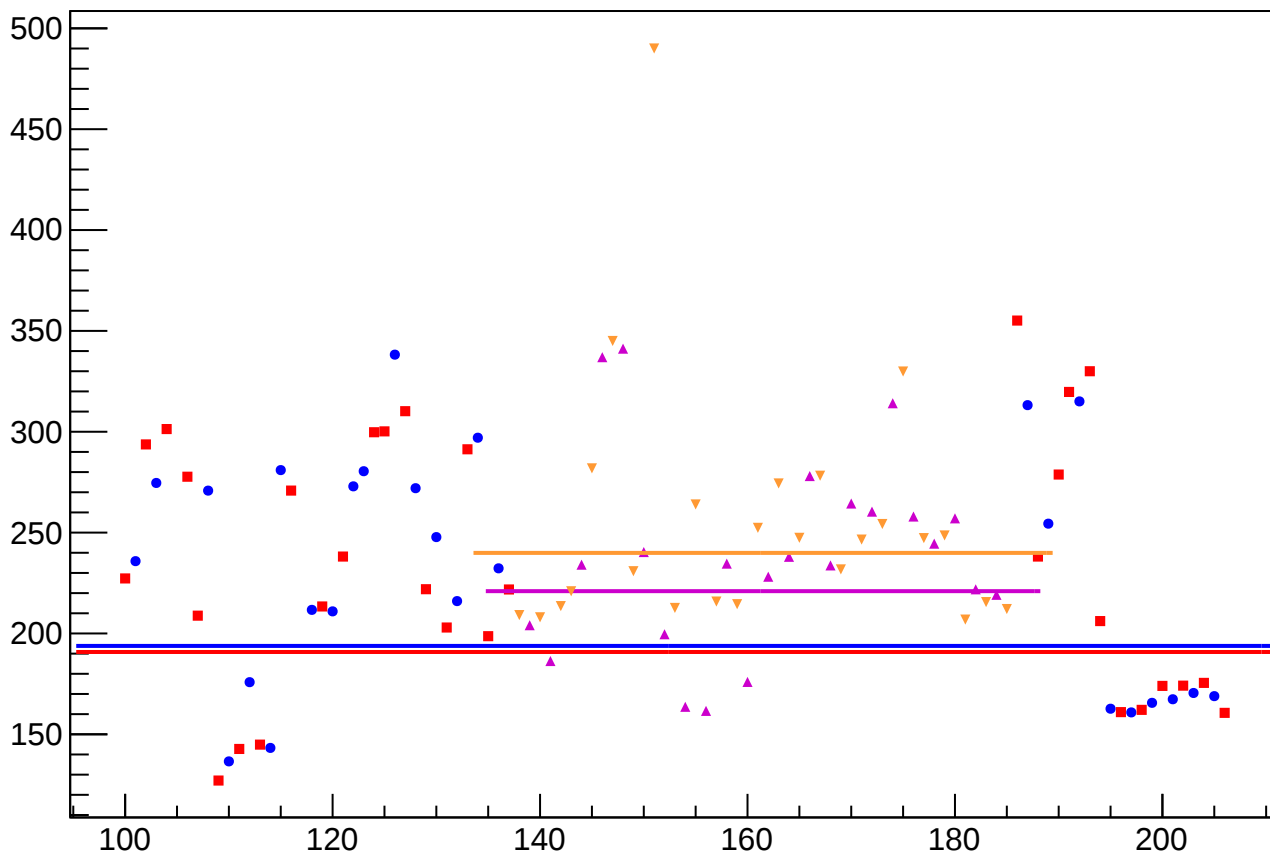
Right: 79.895 $\pm$ 37.855 χ^2 /NDF: 24109.7/56

In: 551.401 $\pm$ 39.192 χ^2 /NDF:12258.9/48

Out: 201.089 $\pm$ 38.355 χ^2 /NDF:15887.9/55

All: 372.463 $\pm$ 27.412 χ^2 /NDF: 28187.6/104

asym_bcm0l02_rms vs Slug, Sign Corrected



Right In: 193.825 ± 0.039 $\chi^2/\text{NDF}: 1450042.9/25$

Left Out: 239.942 ± 0.041 $\chi^2/\text{NDF}: 1000770.0/24$

Right Out: 190.816 ± 0.036 $\chi^2/\text{NDF}: 2050339.7/30$

Left In: 220.972 ± 0.039 $\chi^2/\text{NDF}: 1327680.6/22$

Left: 230.067 ± 0.028 $\chi^2/\text{NDF}: 2442154.9/47$

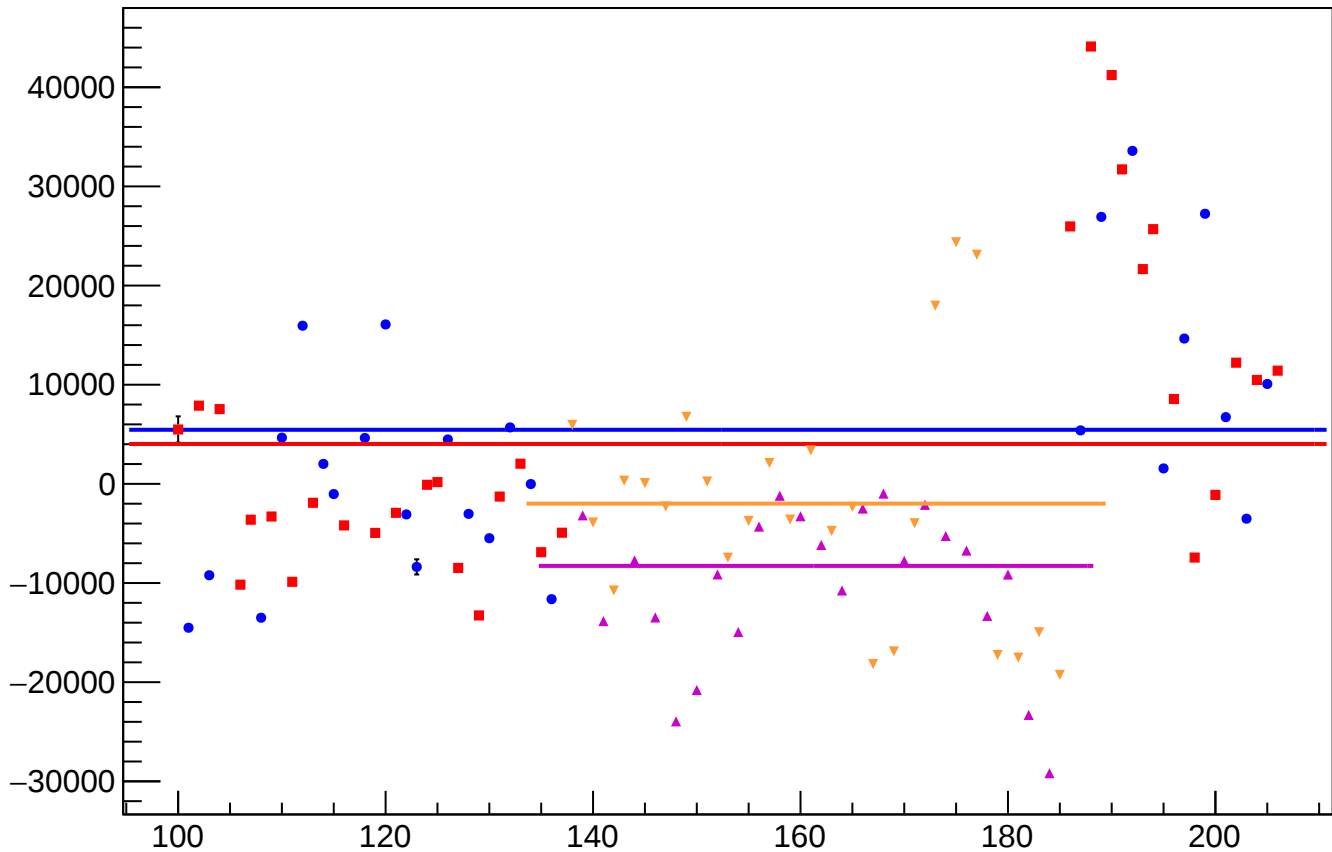
Right: 192.203 ± 0.027 $\chi^2/\text{NDF}: 3503522.5/56$

In: 207.564 ± 0.028 $\chi^2/\text{NDF}: 3017571.2/48$

Out: 212.749 ± 0.027 $\chi^2/\text{NDF}: 3861962.9/55$

All: 210.212 ± 0.019 $\chi^2/\text{NDF}: 6897411.3/104$

asym_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 5454.827+/-43.477 χ^2/NDF : 86952.7/25

Left Out: -1991.788+/-42.427 χ^2/NDF : 63766.6/24

Right Out: 4023.041+/-40.528 χ^2/NDF : 134262.5/30

Left In: -8273.228+/-44.301 χ^2/NDF : 22870.2/22

Left: -4996.810+/-30.641 χ^2/NDF : 97123.2/47

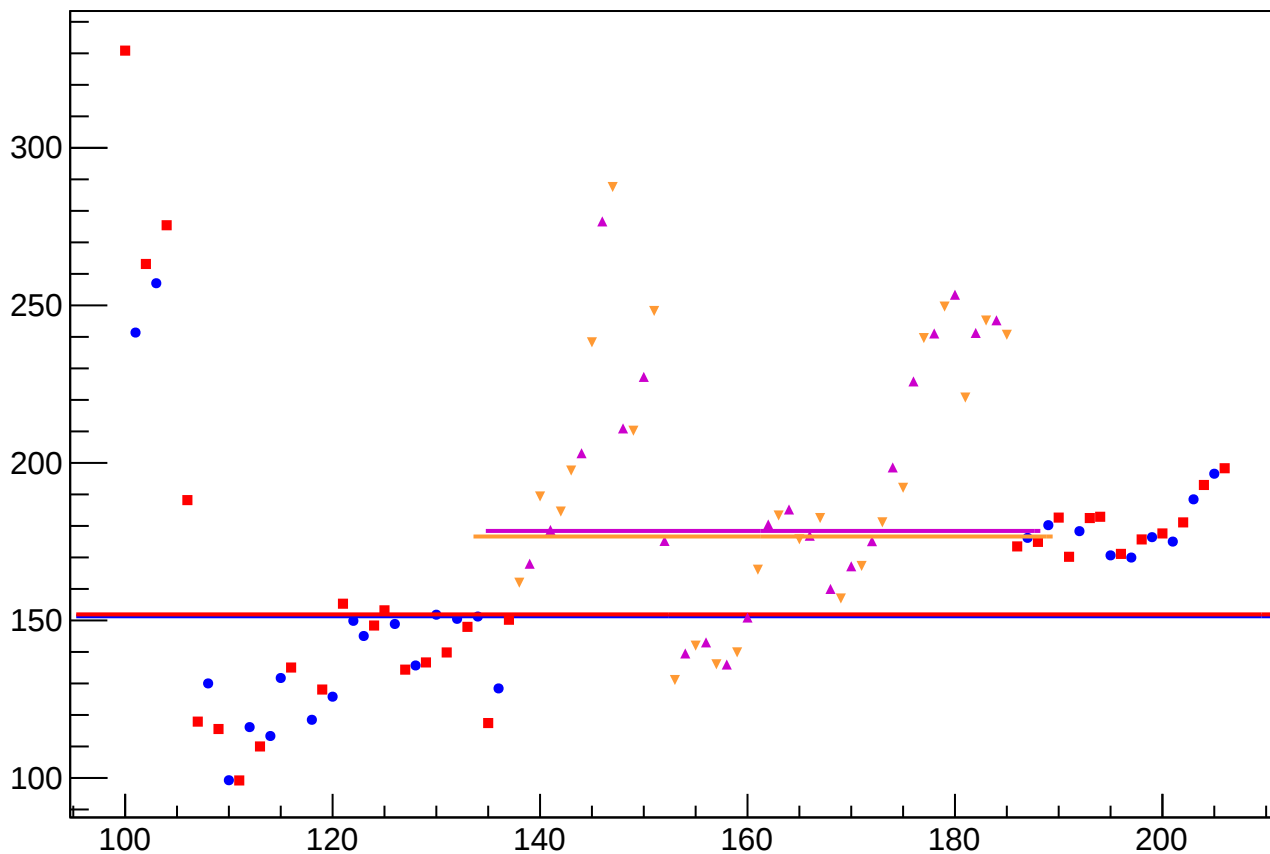
Right: 4688.725+/-29.645 χ^2/NDF : 221795.5/56

In: -1280.336+/-31.030 χ^2/NDF : 158737.1/48

Out: 1153.250+/-29.306 χ^2/NDF : 208538.3/55

All: 5.954+/-21.306 χ^2/NDF : 370526.4/104

asym_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 151.325+/-0.031 χ^2/NDF : 1152437.6/25

Left Out: 176.641+/-0.030 χ^2/NDF :1551048.8/24

Right Out: 151.924+/-0.029 χ^2/NDF : 1530358.7/30

Left In: 178.413+/-0.031 χ^2/NDF :1293736.2/22

Left: 177.489+/-0.022 χ^2/NDF : 2846455.0/47

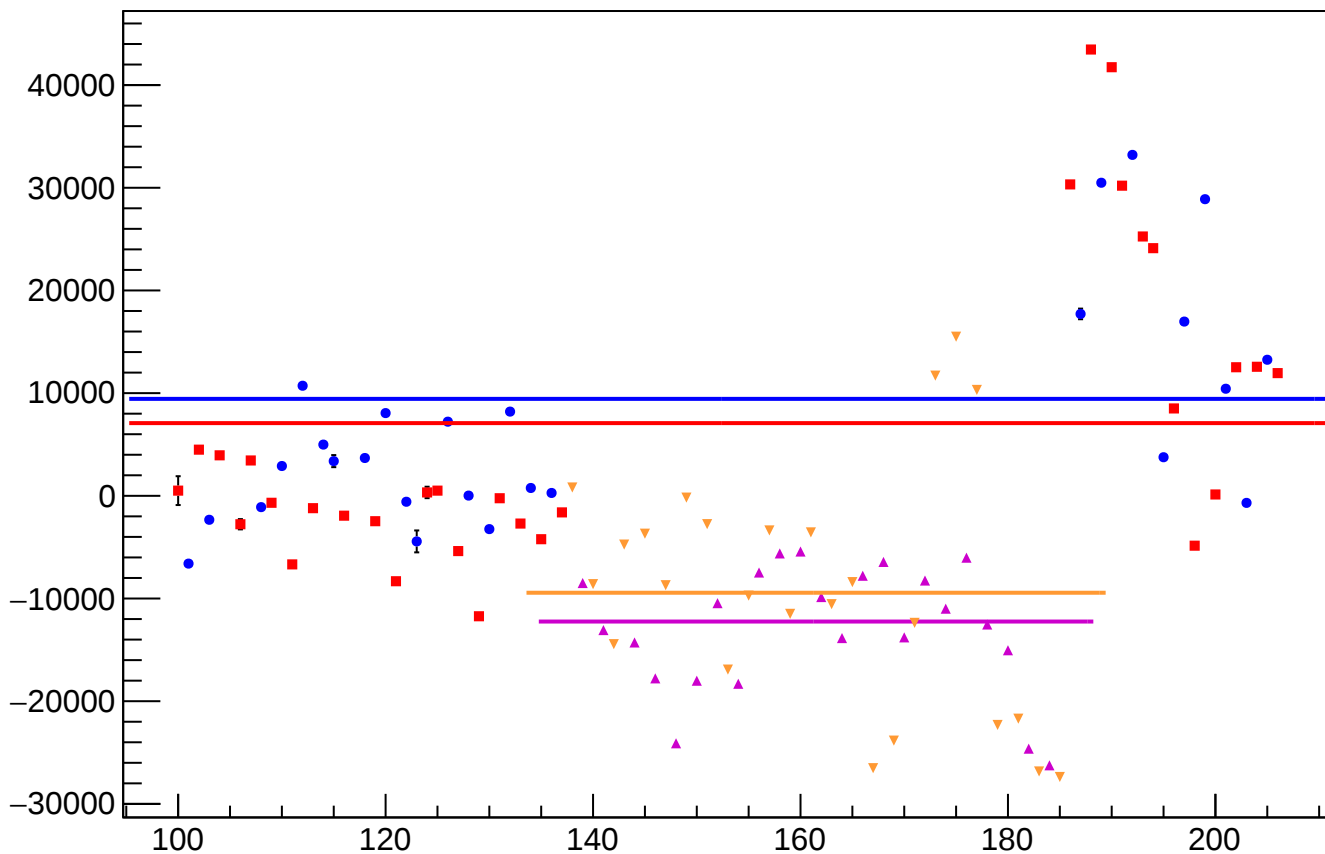
Right: 151.646+/-0.021 χ^2/NDF : 2682999.7/56

In: 164.615+/-0.022 χ^2/NDF :2827072.2/48

Out: 163.717+/-0.021 χ^2/NDF :3436318.3/55

All: 164.140+/-0.015 χ^2/NDF : 6264275.4/104

asym_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 9442.233+/-49.643

χ^2/NDF : 48757.1/25

Left: -10889.638+/-31.621

χ^2/NDF : 80800.7/47

Left Out: -9437.408+/-45.534

χ^2/NDF : 62220.4/24

Right: 8164.534+/-33.627

χ^2/NDF : 153594.3/56

Right Out: 7081.240+/-45.710

χ^2/NDF : 103613.1/30

In: -2715.464+/-32.904

χ^2/NDF : 172348.8/48

Out: -1209.972+/-32.260

χ^2/NDF : 231381.8/55

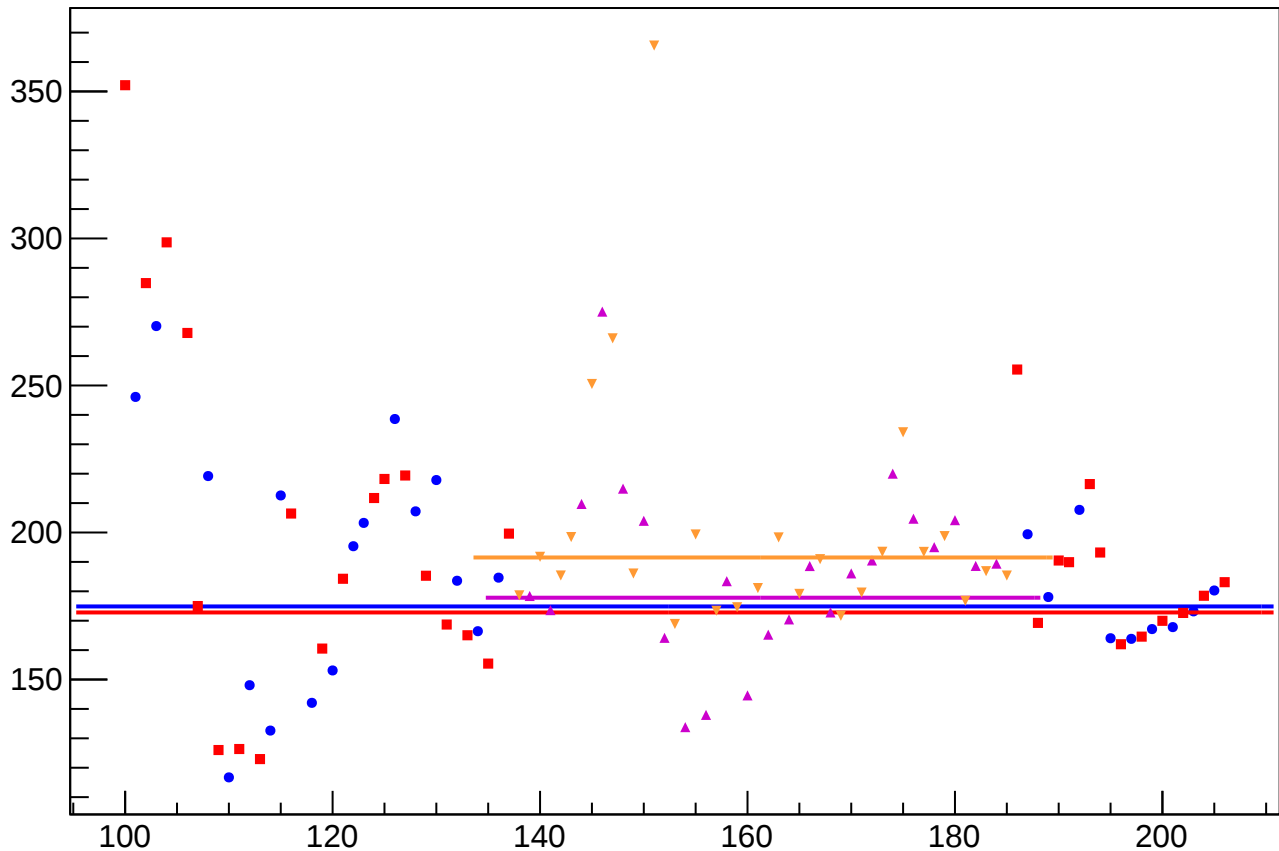
Left In: -12242.226+/-43.944

χ^2/NDF : 16615.8/22

All: -1947.824+/-23.036

χ^2/NDF : 404798.0/1

asym_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 174.854 ± 0.035 $\chi^2/\text{NDF}: 759679.9/25$

Left Out: 191.507 ± 0.032 $\chi^2/\text{NDF}: 727251.6/24$

Right Out: 172.808 ± 0.032 $\chi^2/\text{NDF}: 1131650.6/30$

Left In: 177.821 ± 0.031 $\chi^2/\text{NDF}: 862494.4/22$

Left: 184.421 ± 0.022 $\chi^2/\text{NDF}: 1683284.8/47$

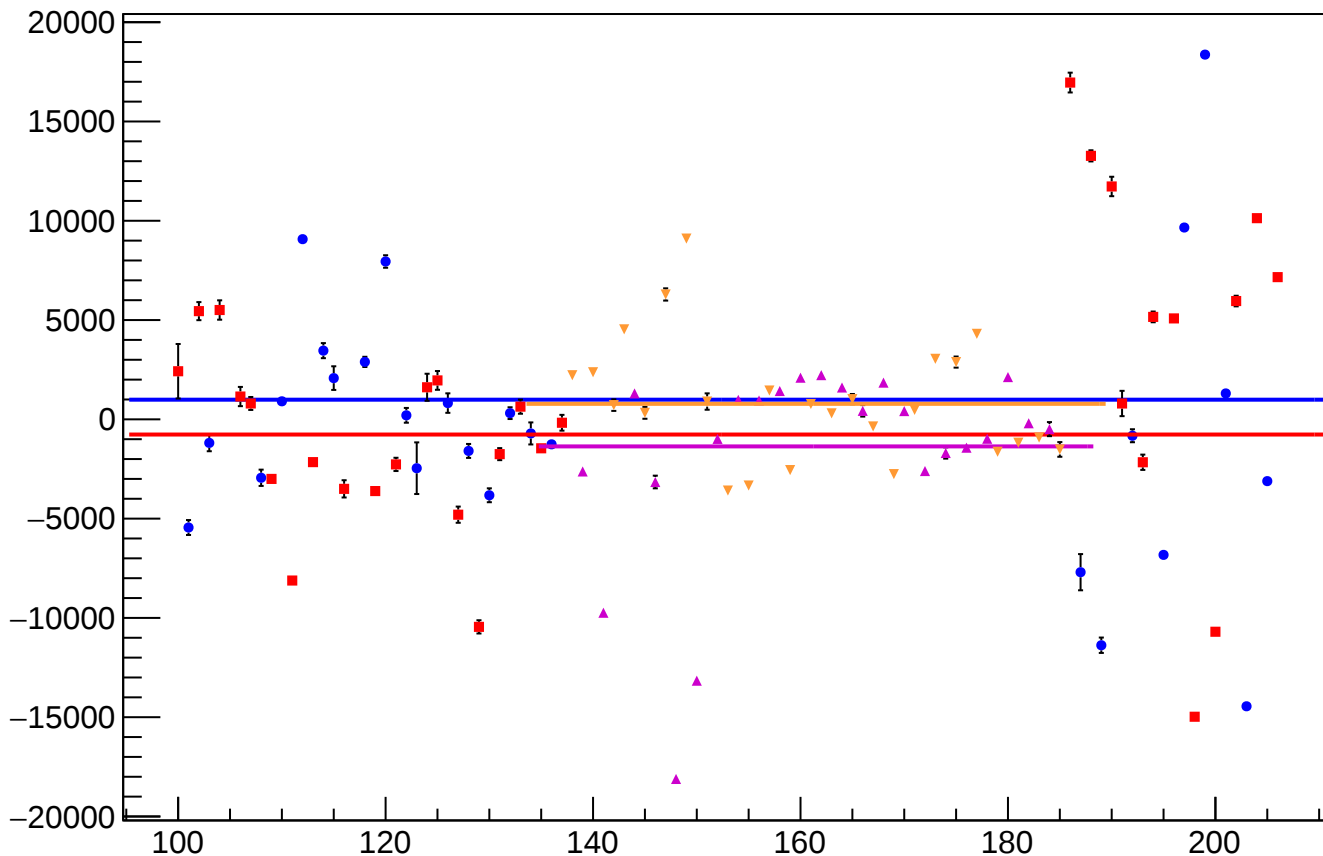
Right: 173.747 ± 0.024 $\chi^2/\text{NDF}: 1893169.9/56$

In: 176.518 ± 0.023 $\chi^2/\text{NDF}: 1626180.2/48$

Out: 182.193 ± 0.023 $\chi^2/\text{NDF}: 2026891.0/55$

All: 179.412 ± 0.016 $\chi^2/\text{NDF}: 3683410.4/104$

asym_bpm0i05WS_mean vs Slug, Sign Corrected



Right In: 989.600+/-55.798 χ^2/NDF : 19979.6/25

Left Out: 779.983+/-47.457 χ^2/NDF : 4260.8/24

Right Out: -765.096+/-51.727 χ^2/NDF : 20346.1/30

Left In: -1363.043+/-45.807 χ^2/NDF : 11632.9/22

Left: -329.448+/-32.958 χ^2/NDF : 16949.3/47

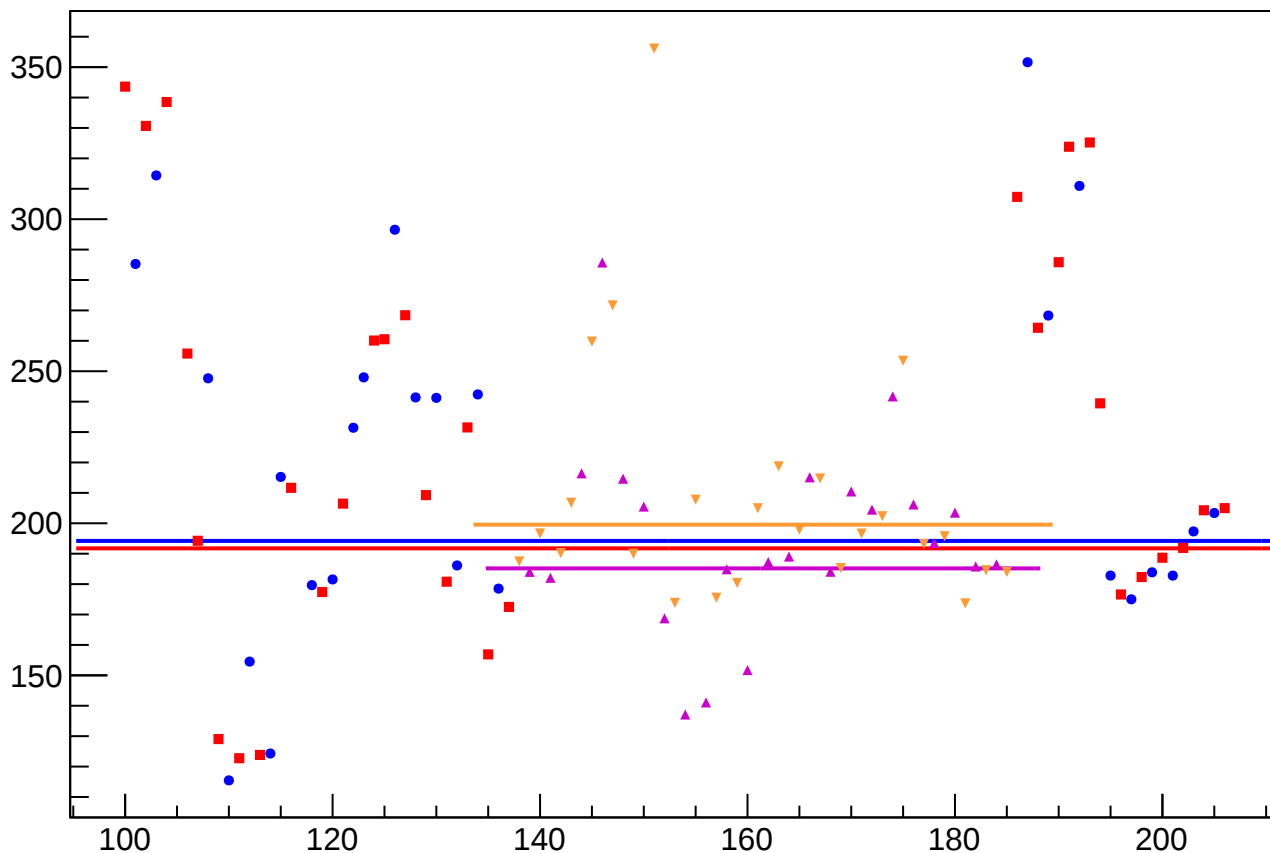
Right: 45.925+/-37.934 χ^2/NDF : 40857.5/56

In: -415.848+/-35.404 χ^2/NDF : 32674.5/48

Out: 73.839+/-34.970 χ^2/NDF : 25091.3/55

All: -167.980+/-24.880 χ^2/NDF : 57862.6/104

asym_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 194.203 ± 0.039 $\chi^2/\text{NDF}: 1410264.3/25$

Left Out: 199.547 ± 0.034 $\chi^2/\text{NDF}: 729356.3/24$

Right Out: 191.752 ± 0.037 $\chi^2/\text{NDF}: 2142233.6/30$

Left In: 185.171 ± 0.032 $\chi^2/\text{NDF}: 882752.2/22$

Left: 192.104 ± 0.023 $\chi^2/\text{NDF}: 1707122.0/47$

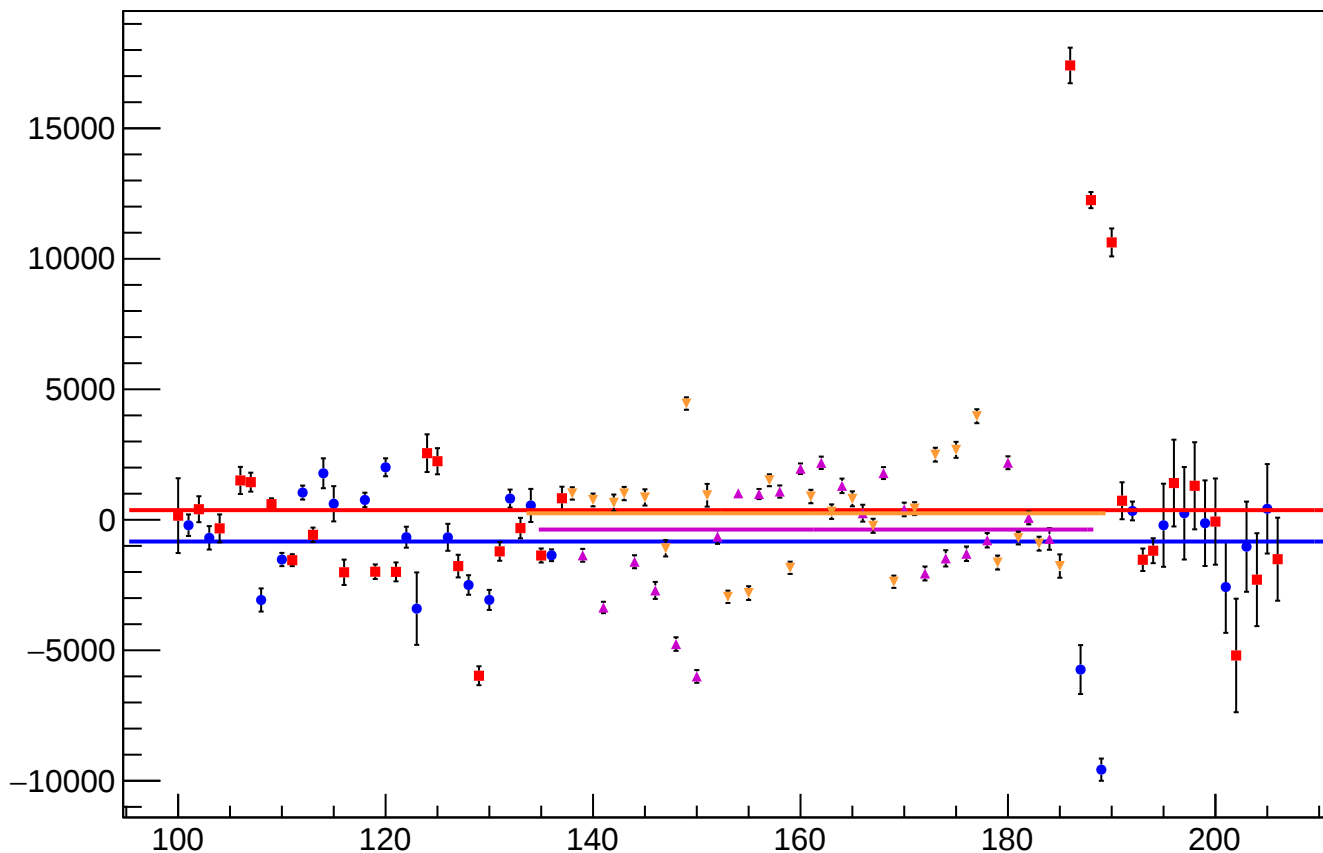
Right: 192.885 ± 0.027 $\chi^2/\text{NDF}: 3554573.2/56$

In: 188.807 ± 0.025 $\chi^2/\text{NDF}: 2324327.3/48$

Out: 195.985 ± 0.025 $\chi^2/\text{NDF}: 2896246.5/55$

All: 192.440 ± 0.018 $\chi^2/\text{NDF}: 5262178.2/104$

asym_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -832.364 ± 83.541 $\chi^2/\text{NDF}: 761.7/25$

Left Out: 247.844 ± 53.555 $\chi^2/\text{NDF}: 1355.1/24$

Right Out: 368.996 ± 74.990 $\chi^2/\text{NDF}: 3172.8/30$

Left In: -374.122 ± 52.049 $\chi^2/\text{NDF}: 1801.0/22$

Left: -72.006 ± 37.325 $\chi^2/\text{NDF}: 3225.5/47$

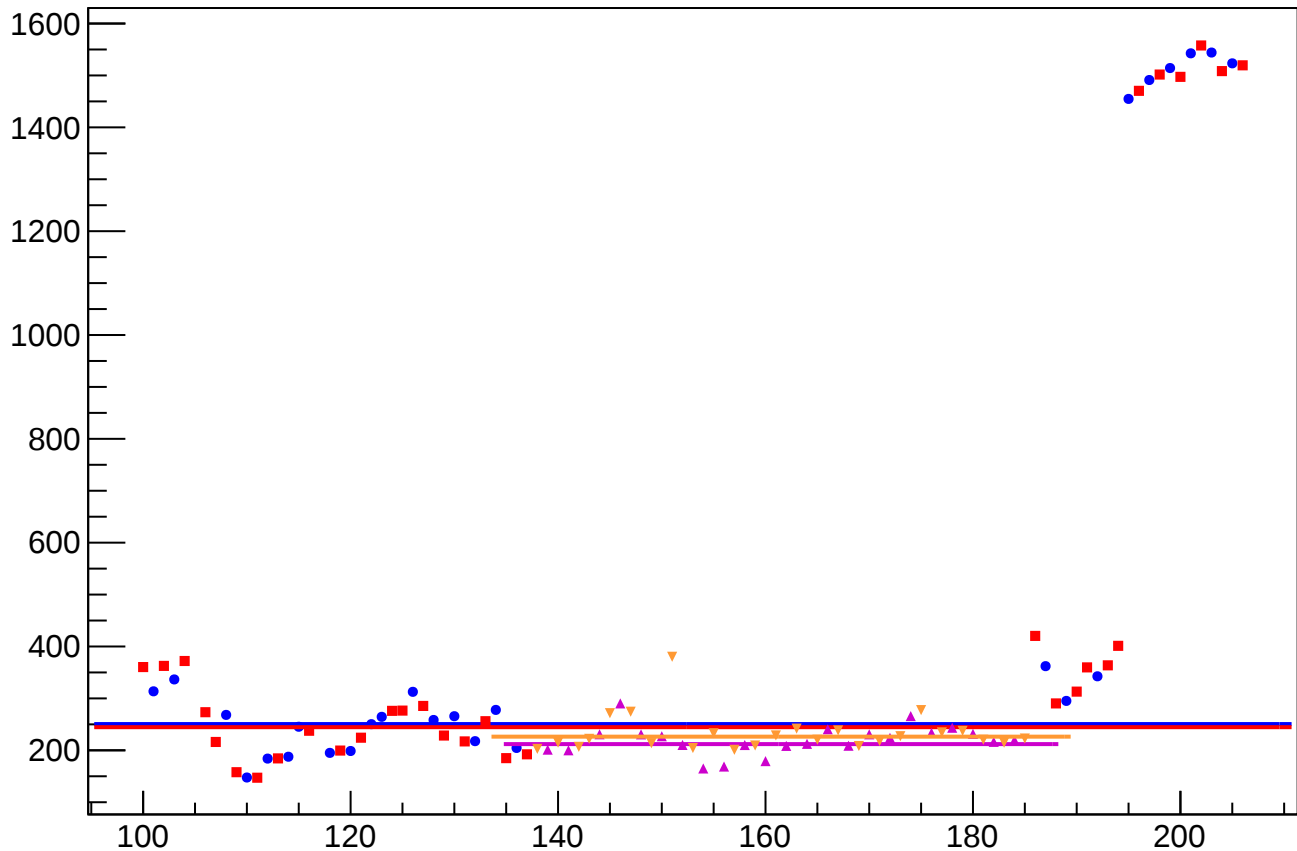
Right: -167.067 ± 55.805 $\chi^2/\text{NDF}: 4049.0/56$

In: -502.259 ± 44.176 $\chi^2/\text{NDF}: 2584.4/48$

Out: 288.764 ± 43.582 $\chi^2/\text{NDF}: 4529.6/55$

All: -101.388 ± 31.025 $\chi^2/\text{NDF}: 7276.5/104$

asym_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 250.568+/-0.059 χ^2/NDF : 7663074.2/25

Left Out: 226.322+/-0.038 χ^2/NDF : 521041.8/24

Right Out: 244.547+/-0.053 χ^2/NDF : 8269831.4/30

Left In: 211.970+/-0.037 χ^2/NDF : 584344.5/22

Left: 218.941+/-0.026 χ^2/NDF : 1179246.7/47

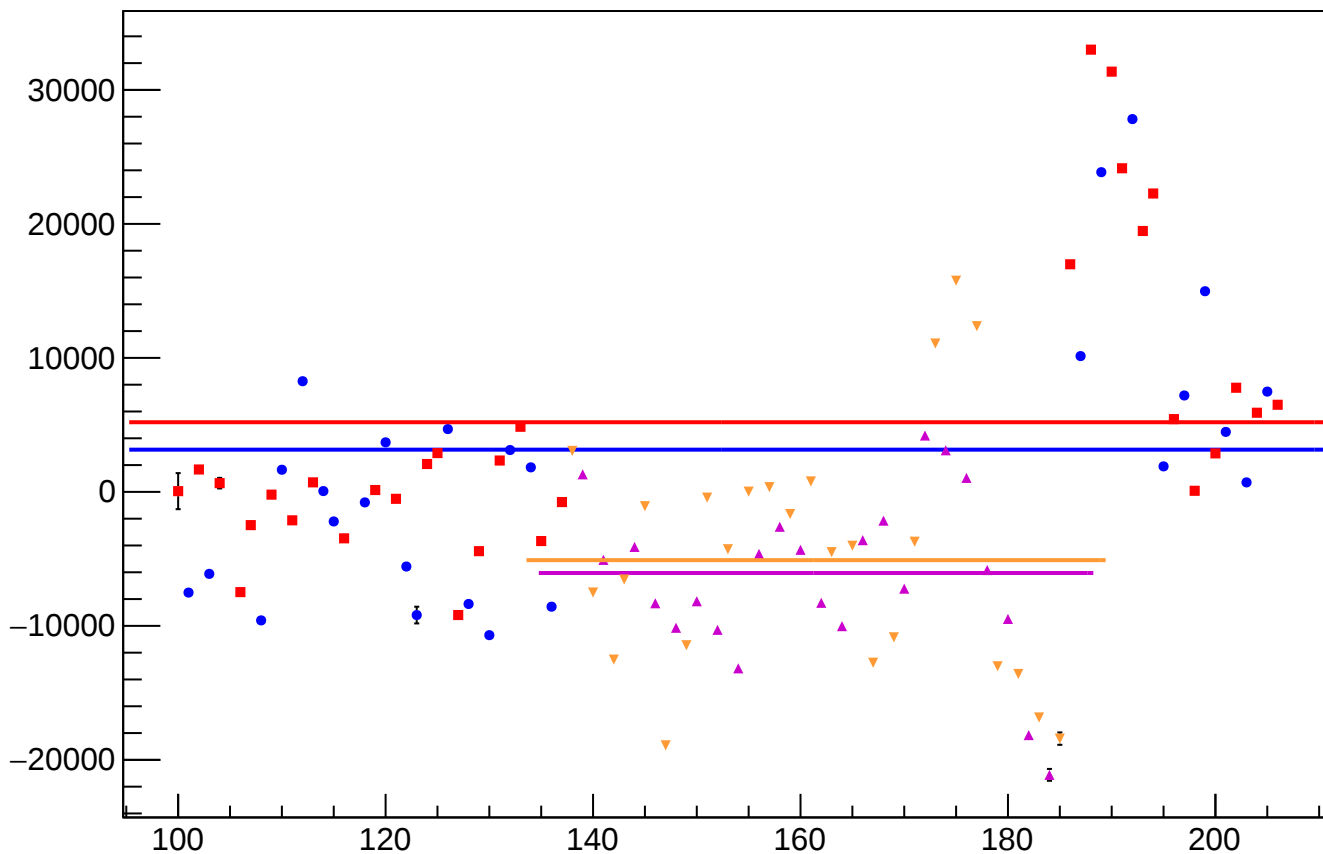
Right: 247.234+/-0.039 χ^2/NDF : 15938659.8/56

In: 222.763+/-0.031 χ^2/NDF : 8554969.0/48

Out: 232.477+/-0.031 χ^2/NDF : 8869103.4/55

All: 227.686+/-0.022 χ^2/NDF : 17473081.4/10

asym_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: 3151.589+/-36.951 χ^2/NDF : 73941.5/25

Left Out: -5095.305+/-33.703 χ^2/NDF : 54395.4/24

Right Out: 5198.497+/-34.151 χ^2/NDF : 101070.7/30

Left In: -6053.569+/-34.998 χ^2/NDF : 17590.3/22

Left: -5556.386+/-24.277 χ^2/NDF : 72374.6/47

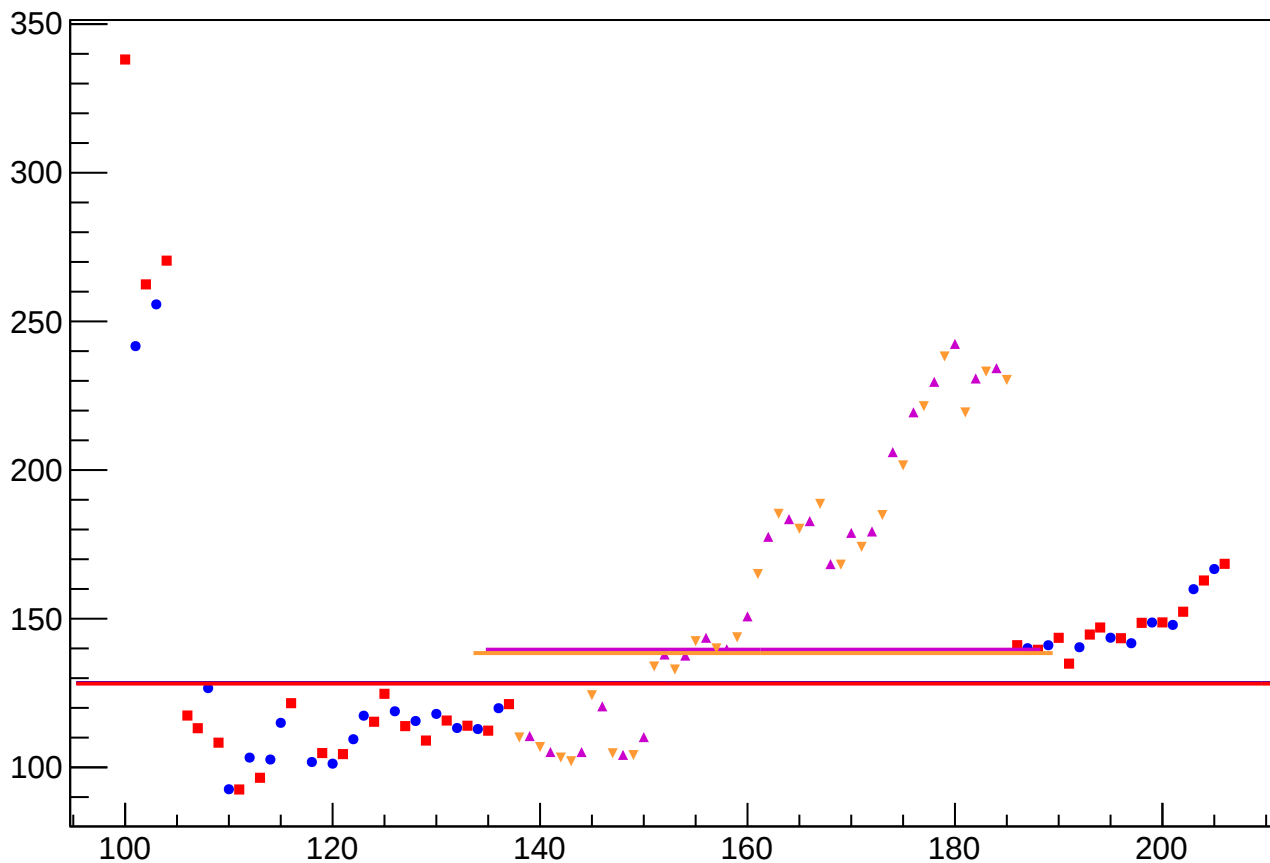
Right: 4255.514+/-25.080 χ^2/NDF : 176667.2/56

In: -1700.662+/-25.410 χ^2/NDF : 124245.0/48

Out: -16.349+/-23.989 χ^2/NDF : 201491.9/55

All: -810.095+/-17.443 χ^2/NDF : 328060.1/10

asym_bpm1i02WS_rms vs Slug, Sign Corrected



Right In: 128.365+/-0.026 χ^2/NDF : 1145307.4/25

Left Out: 138.436+/-0.024 χ^2/NDF : 2549435.8/24

Right Out: 128.185+/-0.024 χ^2/NDF : 1360974.7/30

Left In: 139.578+/-0.025 χ^2/NDF : 2413658.9/22

Left: 138.985+/-0.017 χ^2/NDF : 4964199.7/47

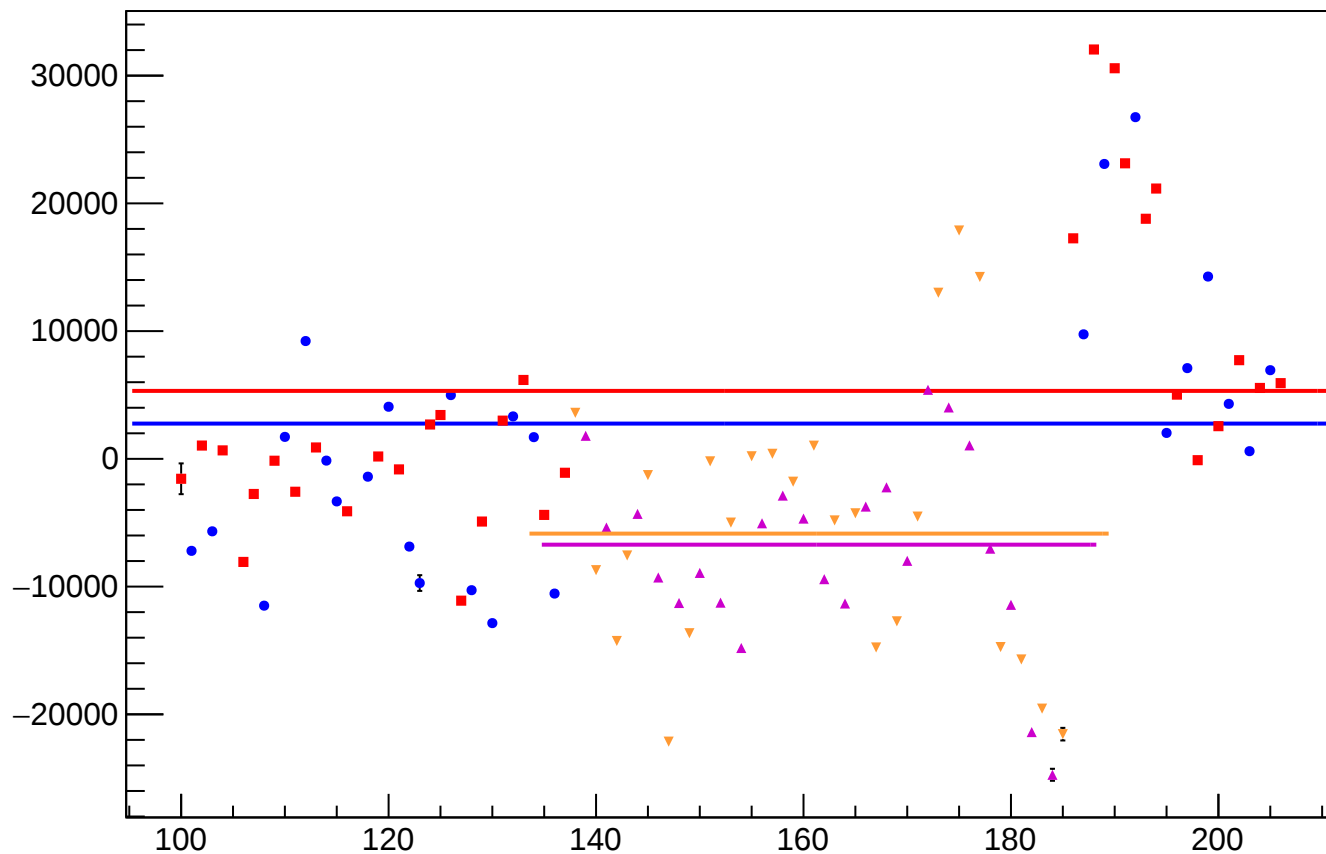
Right: 128.268+/-0.018 χ^2/NDF : 2506307.6/56

In: 134.275+/-0.018 χ^2/NDF : 3656045.5/48

Out: 133.378+/-0.017 χ^2/NDF : 4001689.7/55

All: 133.801+/-0.012 χ^2/NDF : 7659054.0/104

asym_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: 2760.584+/-37.137

χ^2/NDF : 78942.9/25

Left Out: -5852.544+/-35.880

χ^2/NDF : 63411.4/24

Right Out: 5319.756+/-34.400

χ^2/NDF : 101535.1/30

Left In: -6718.475+/-37.276

χ^2/NDF : 20934.3/22

Left: -6268.993+/-25.850

χ^2/NDF : 84625.8/47

Right: 4137.962+/-25.237

χ^2/NDF : 183033.8/56

In: -1961.352+/-26.309

χ^2/NDF : 132330.7/48

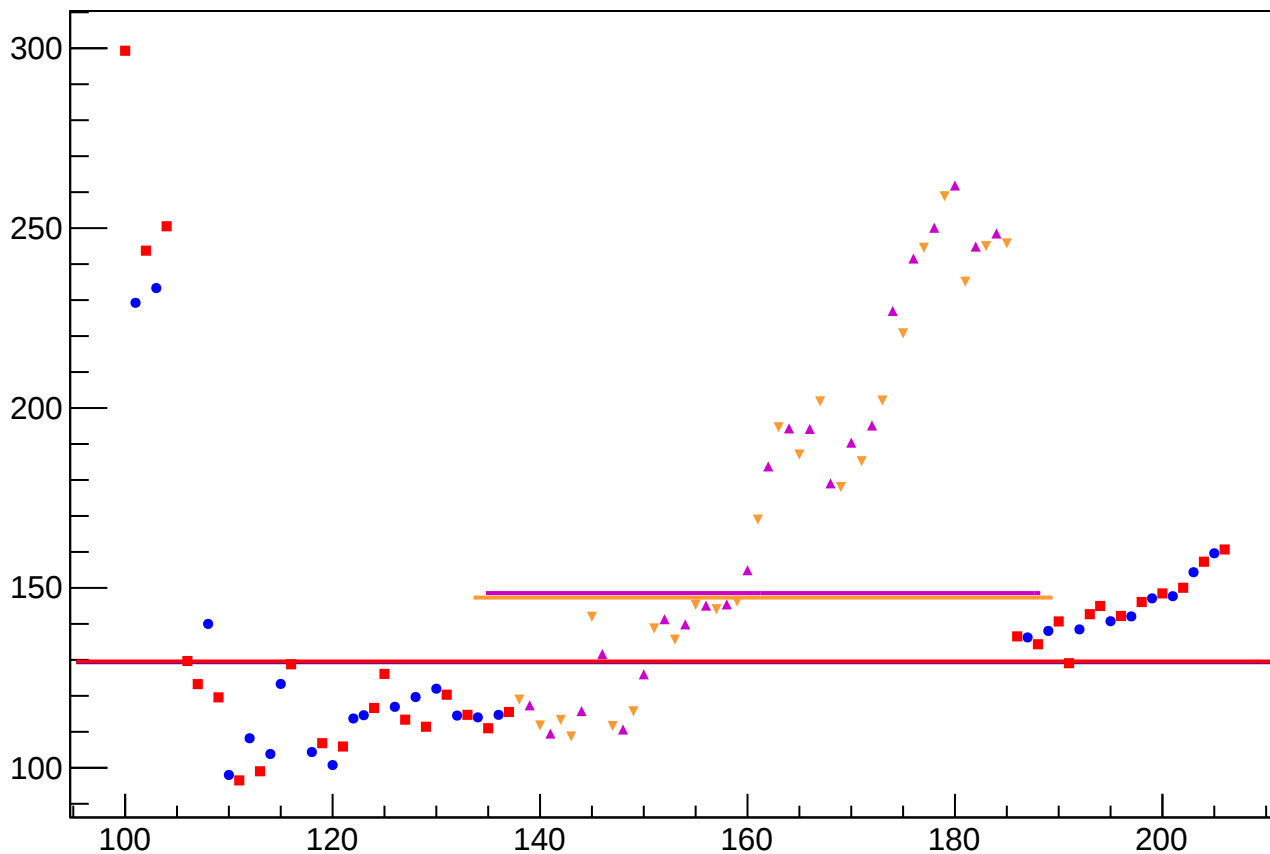
Out: -31.235+/-24.831

χ^2/NDF : 215466.6/55

All: -940.566+/-18.058

χ^2/NDF : 350643.8/10

asym_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 129.349+/-0.026 χ^2/NDF : 925893.5/25

Left Out: 147.317+/-0.025 χ^2/NDF : 2511679.9/24

Right Out: 129.550+/-0.024 χ^2/NDF : 1070054.2/30

Left In: 148.569+/-0.026 χ^2/NDF : 2393185.0/22

Left: 147.919+/-0.018 χ^2/NDF : 4906034.9/47

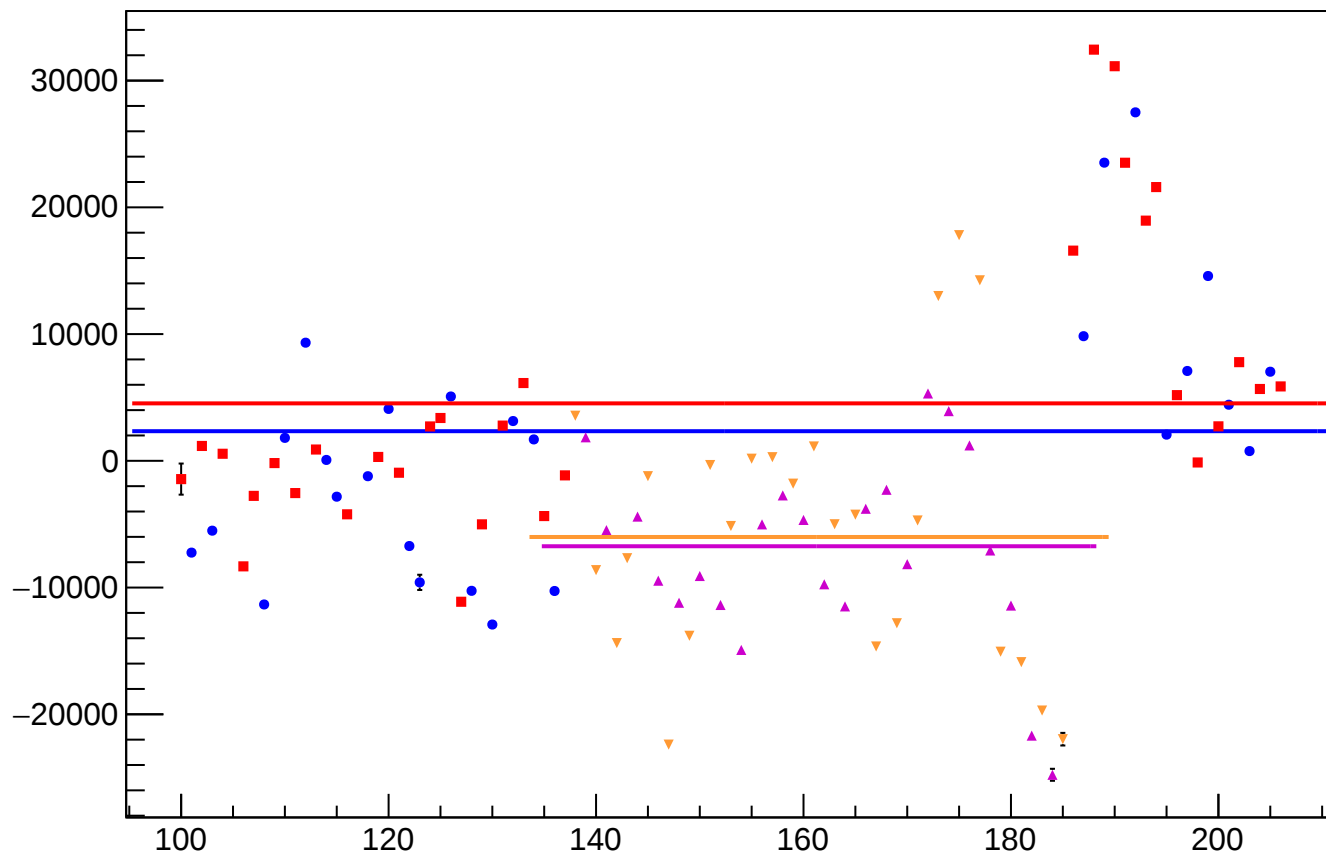
Right: 129.457+/-0.018 χ^2/NDF : 1995979.1/56

In: 138.923+/-0.019 χ^2/NDF : 3585907.8/48

Out: 138.060+/-0.018 χ^2/NDF : 3837263.2/55

All: 138.467+/-0.013 χ^2/NDF : 7424310.6/104

asym_bpm2i02WS_mean vs Slug, Sign Corrected



Right In: 2337.927+/-36.727 χ^2/NDF : 78350.9/25

Left Out: -6009.913+/-35.082 χ^2/NDF : 67852.2/24

Right Out: 4532.676+/-34.203 χ^2/NDF : 96212.3/30

Left In: -6740.666+/-36.379 χ^2/NDF : 22071.8/22

Left: -6362.031+/-25.253 χ^2/NDF : 90133.1/47

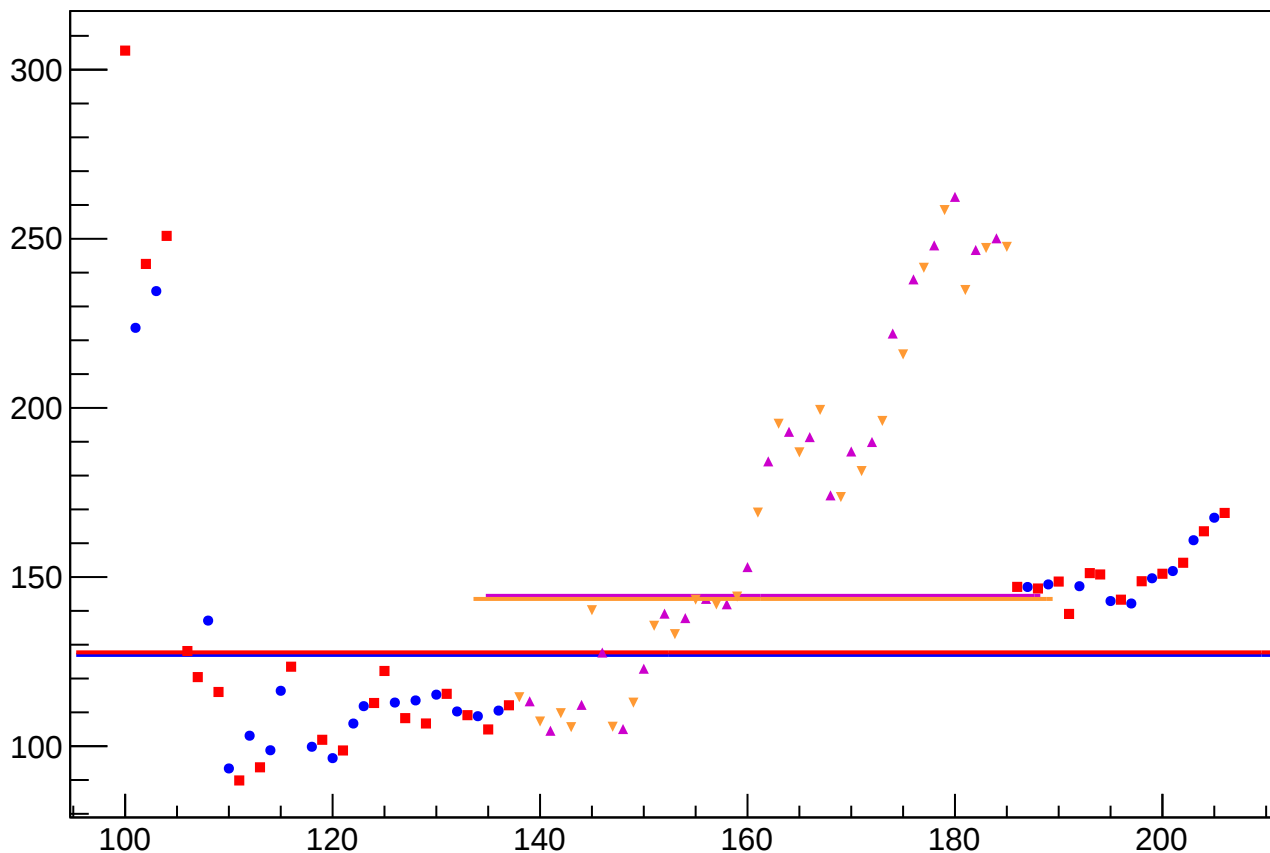
Right: 3513.320+/-25.030 χ^2/NDF : 176475.7/56

In: -2244.553+/-25.846 χ^2/NDF : 131264.9/48

Out: -604.764+/-24.490 χ^2/NDF : 210364.2/55

All: -1380.510+/-17.777 χ^2/NDF : 343750.0/1

asym_bpm2i02WS_rms vs Slug, Sign Corrected



Right In: 126.985 $\pm$ 0.026 χ^2 /NDF: 1203908.9/25

Left Out: 143.531 $\pm$ 0.025 χ^2 /NDF: 2704790.3/24

Right Out: 127.733 $\pm$ 0.024 χ^2 /NDF: 1465045.1/30

Left In: 144.440 $\pm$ 0.026 χ^2 /NDF: 2586926.1/22

Left: 143.969 $\pm$ 0.018 χ^2 /NDF: 5292363.3/47

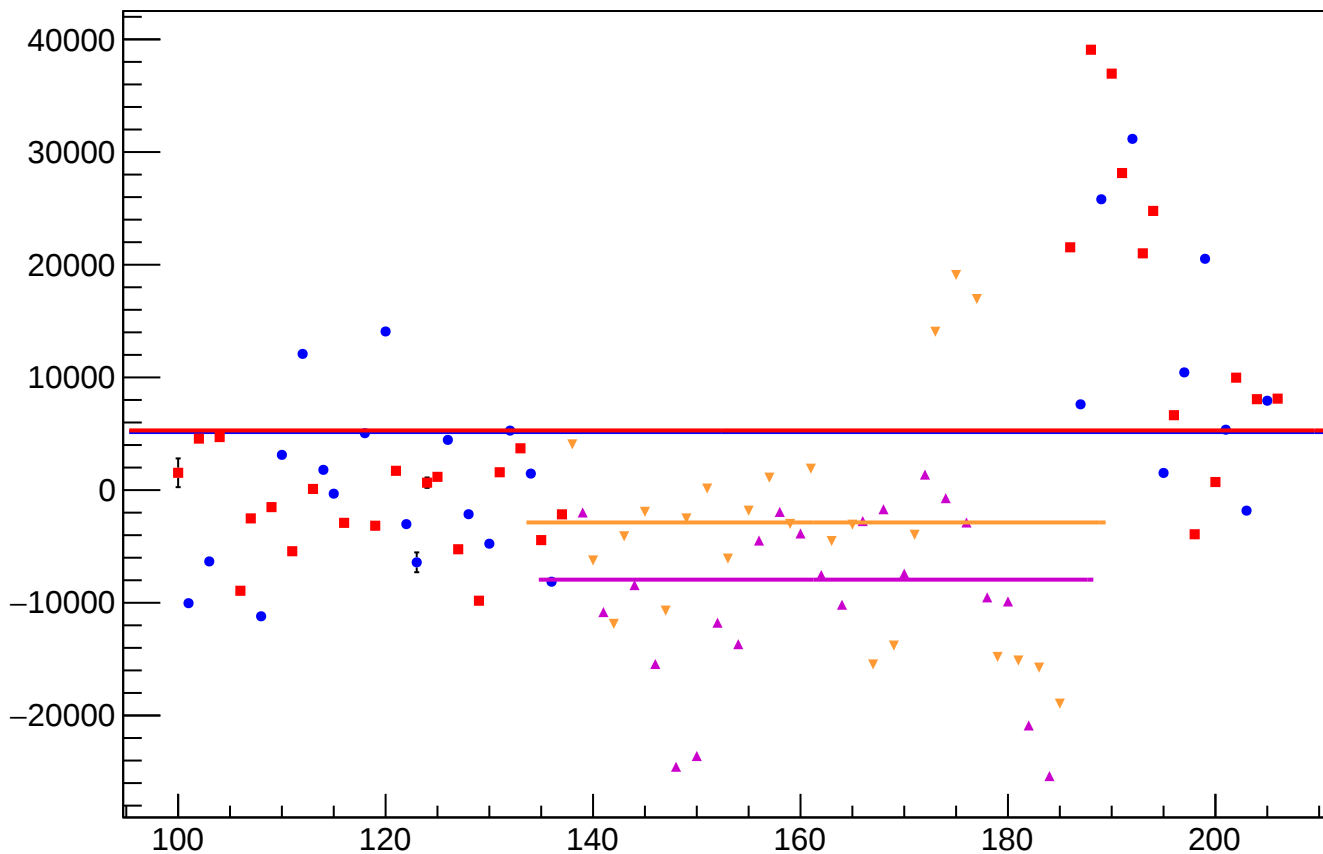
Right: 127.386 $\pm$ 0.018 χ^2 /NDF: 2669398.4/56

In: 135.795 $\pm$ 0.018 χ^2 /NDF: 4018846.3/48

Out: 135.431 $\pm$ 0.017 χ^2 /NDF: 4377752.2/55

All: 135.604 $\pm$ 0.013 χ^2 /NDF: 8396807.6/104

asym_bpm0i01WS_mean vs Slug, Sign Corrected



Right In: 5151.705+/-44.458 χ^2/NDF : 59870.6/25

Left Out: -2870.473+/-39.482 χ^2/NDF : 46420.3/24

Right Out: 5296.165+/-41.388 χ^2/NDF : 95553.1/30

Left In: -7947.160+/-41.726 χ^2/NDF : 23874.5/22

Left: -5268.670+/-28.678 χ^2/NDF : 78105.0/47

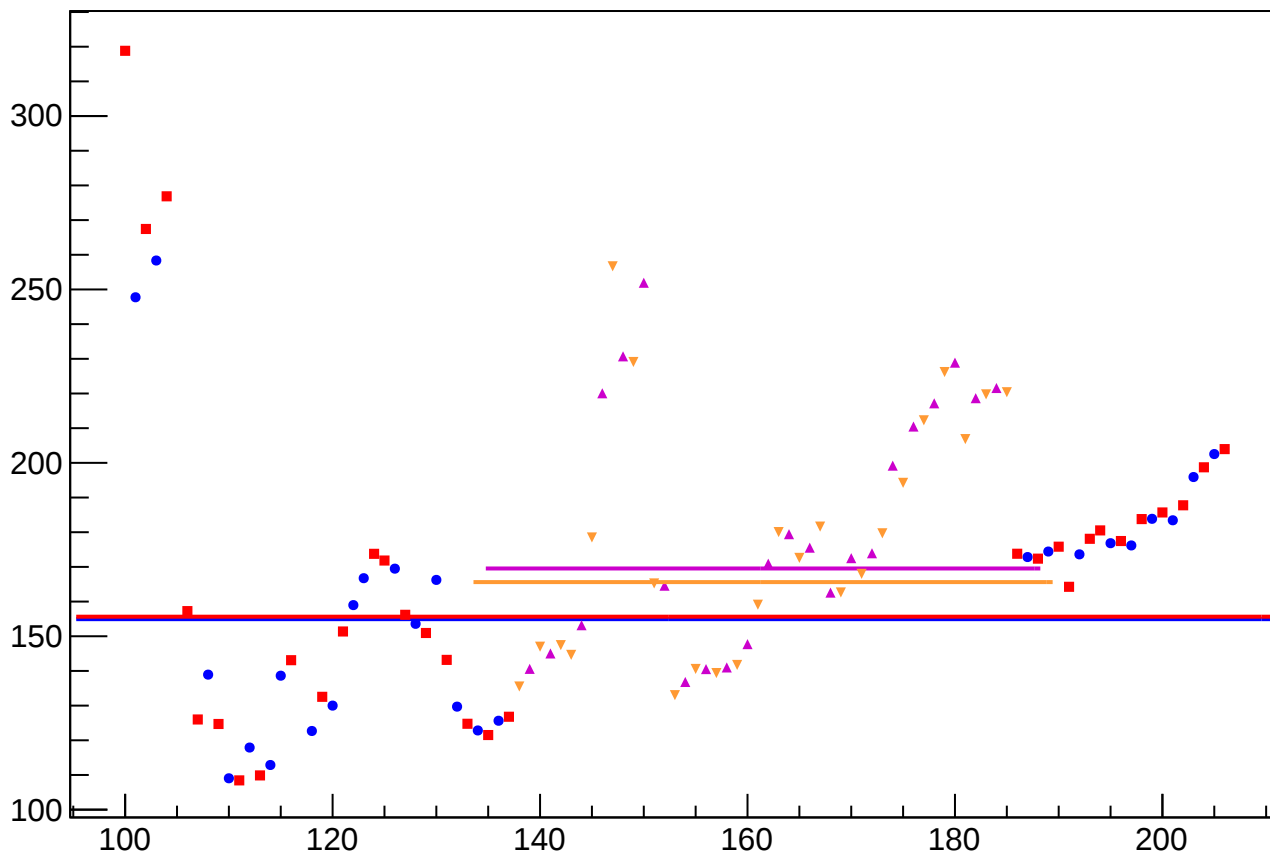
Right: 5229.096+/-30.293 χ^2/NDF : 155429.3/56

In: -1812.620+/-30.425 χ^2/NDF : 129898.9/48

Out: 1020.534+/-28.568 χ^2/NDF : 162358.0/55

All: -306.961+/-20.826 χ^2/NDF : 296865.3/100

asym_bpm0i01WS_rms vs Slug, Sign Corrected



Right In: 154.929 $\pm$ 0.031 χ^2 /NDF: 1158105.9/25

Left Out: 165.616 $\pm$ 0.028 χ^2 /NDF:1144779.3/24

Right Out: 155.641 $\pm$ 0.029 χ^2 /NDF: 1389697.6/30

Left In: 169.542 $\pm$ 0.030 χ^2 /NDF:1159241.9/22

Left: 167.471 $\pm$ 0.020 χ^2 /NDF: 2313359.6/47

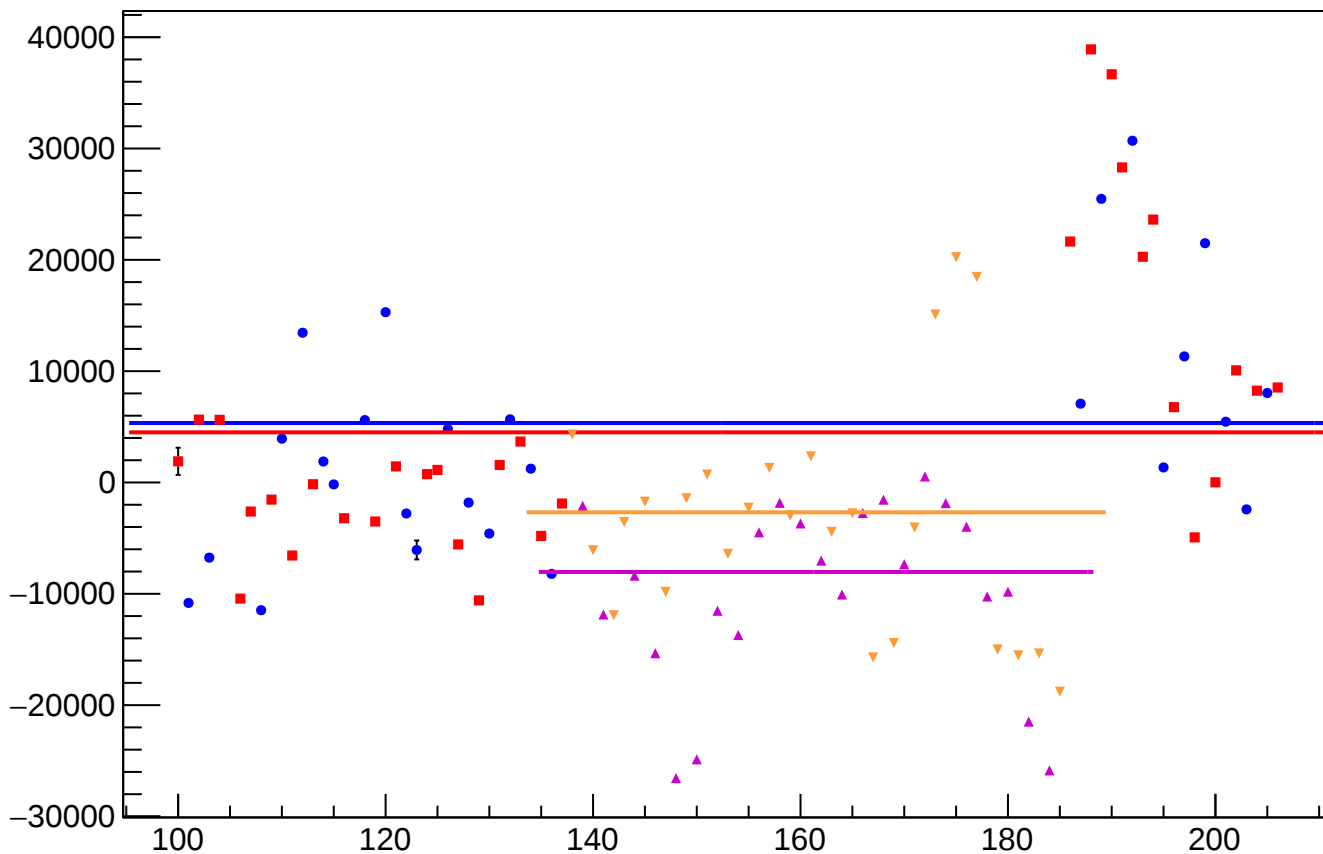
Right: 155.311 $\pm$ 0.021 χ^2 /NDF: 2548078.4/56

In: 162.698 $\pm$ 0.022 χ^2 /NDF:2432221.7/48

Out: 160.864 $\pm$ 0.020 χ^2 /NDF:2595302.5/55

All: 161.723 $\pm$ 0.015 χ^2 /NDF: 5031388.6/104

asym_bpm0i01aWS_mean vs Slug, Sign Corrected



Right In: 5342.616+/-37.480 χ^2/NDF : 84296.7/25

Left Out: -2680.012+/-35.764 χ^2/NDF : 56820.4/24

Right Out: 4506.180+/-34.688 χ^2/NDF : 133195.6/30

Left In: -8036.826+/-37.924 χ^2/NDF : 29261.6/22

Left: -5201.473+/-26.019 χ^2/NDF : 96642.3/47

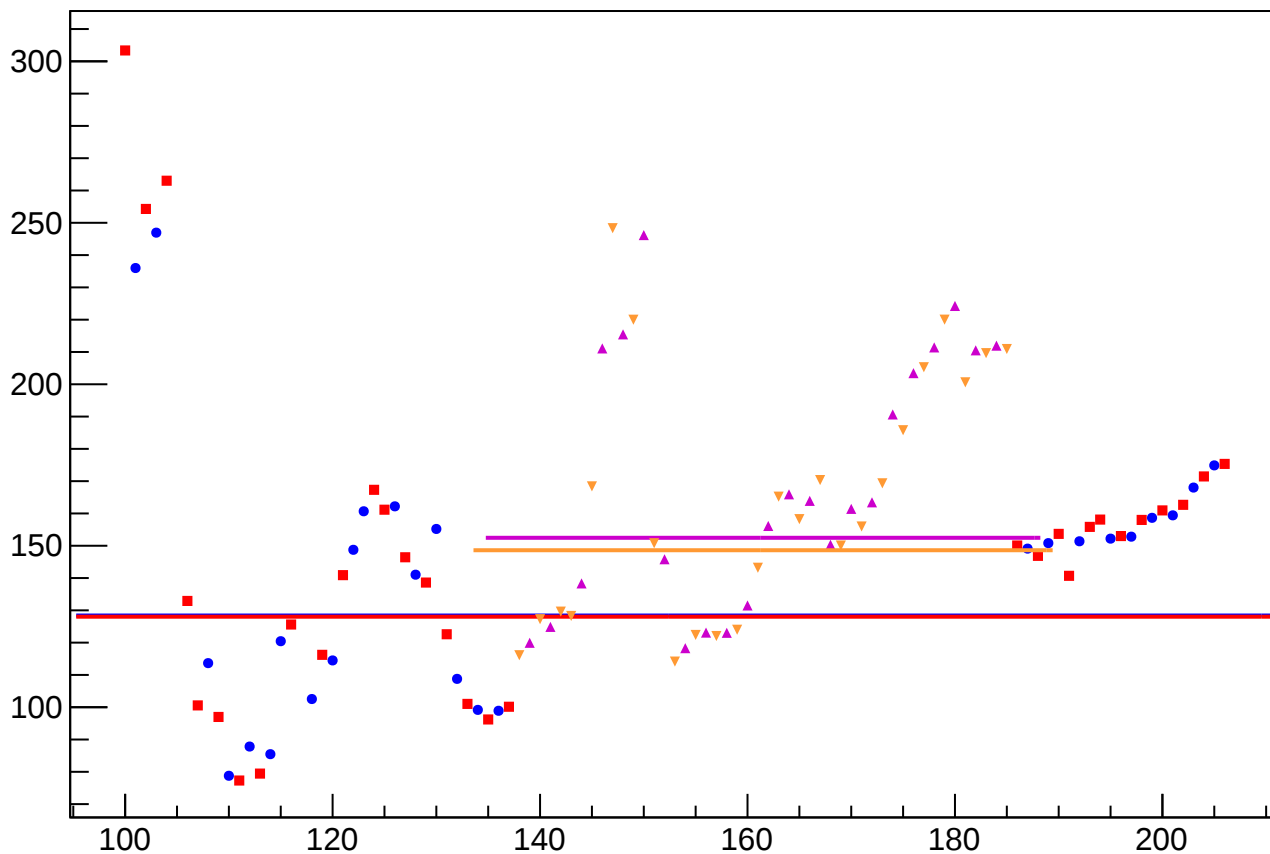
Right: 4892.083+/-25.458 χ^2/NDF : 217760.5/56

In: -1268.243+/-26.658 χ^2/NDF : 176523.2/48

Out: 1022.804+/-24.900 χ^2/NDF : 210820.0/55

All: -44.669+/-18.197 χ^2/NDF : 391287.9/104

asym_bpm0i01aWS_rms vs Slug, Sign Corrected



Right In: 128.395 ± 0.027 χ^2/NDF : 1831307.8/25

Left Out: 148.611 ± 0.025 χ^2/NDF : 1685424.1/24

Right Out: 128.032 ± 0.025 χ^2/NDF : 2236927.7/30

Left In: 152.463 ± 0.027 χ^2/NDF : 1691517.7/22

Left: 150.424 ± 0.018 χ^2/NDF : 3387867.0/47

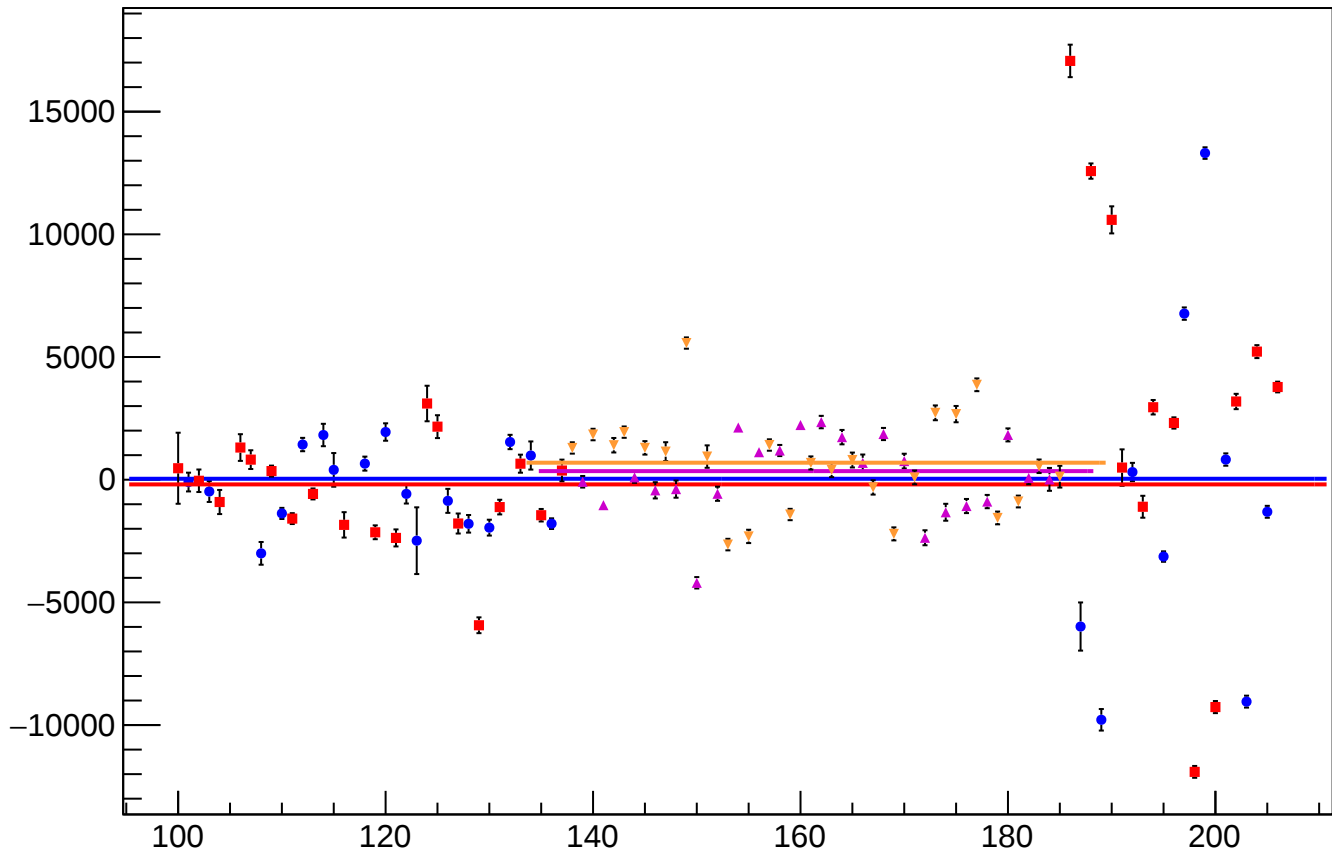
Right: 128.200 ± 0.018 χ^2/NDF : 4068336.7/56

In: 140.288 ± 0.019 χ^2/NDF : 3930328.5/48

Out: 138.007 ± 0.018 χ^2/NDF : 4263551.8/55

All: 139.070 ± 0.013 χ^2/NDF : 8201695.9/104

asym_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: 37.952 ± 61.959 χ^2/NDF : 6420.4/25

Left Out: 692.998 ± 54.303 χ^2/NDF : 1422.0/24

Right Out: -191.748 ± 57.928 χ^2/NDF : 8129.5/30

Left In: 349.623 ± 53.094 χ^2/NDF : 981.0/22

Left: 517.444 ± 37.963 χ^2/NDF : 2423.4/47

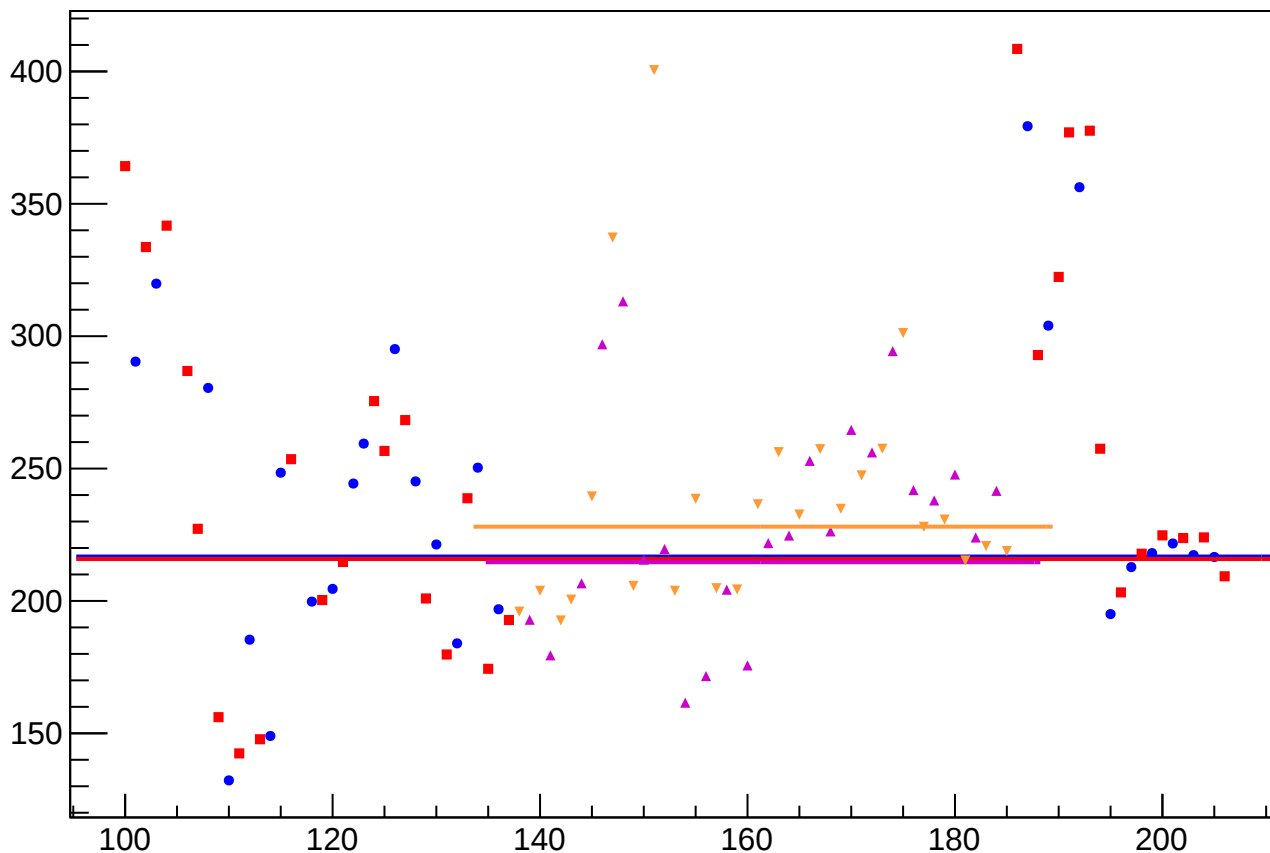
Right: -84.613 ± 42.315 χ^2/NDF : 14557.3/56

In: 217.661 ± 40.316 χ^2/NDF : 7416.0/48

Out: 279.171 ± 39.618 χ^2/NDF : 9675.7/55

All: 248.954 ± 28.258 χ^2/NDF : 17092.9/104

asym_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 216.769 $\pm$ 0.044 χ^2 /NDF: 1149777.2/25

Left Out: 228.061 $\pm$ 0.038 χ^2 /NDF: 826343.8/24

Right Out: 215.829 $\pm$ 0.041 χ^2 /NDF: 1822602.9/30

Left In: 214.627 $\pm$ 0.038 χ^2 /NDF: 1025683.3/22

Left: 221.193 $\pm$ 0.027 χ^2 /NDF: 1914604.4/47

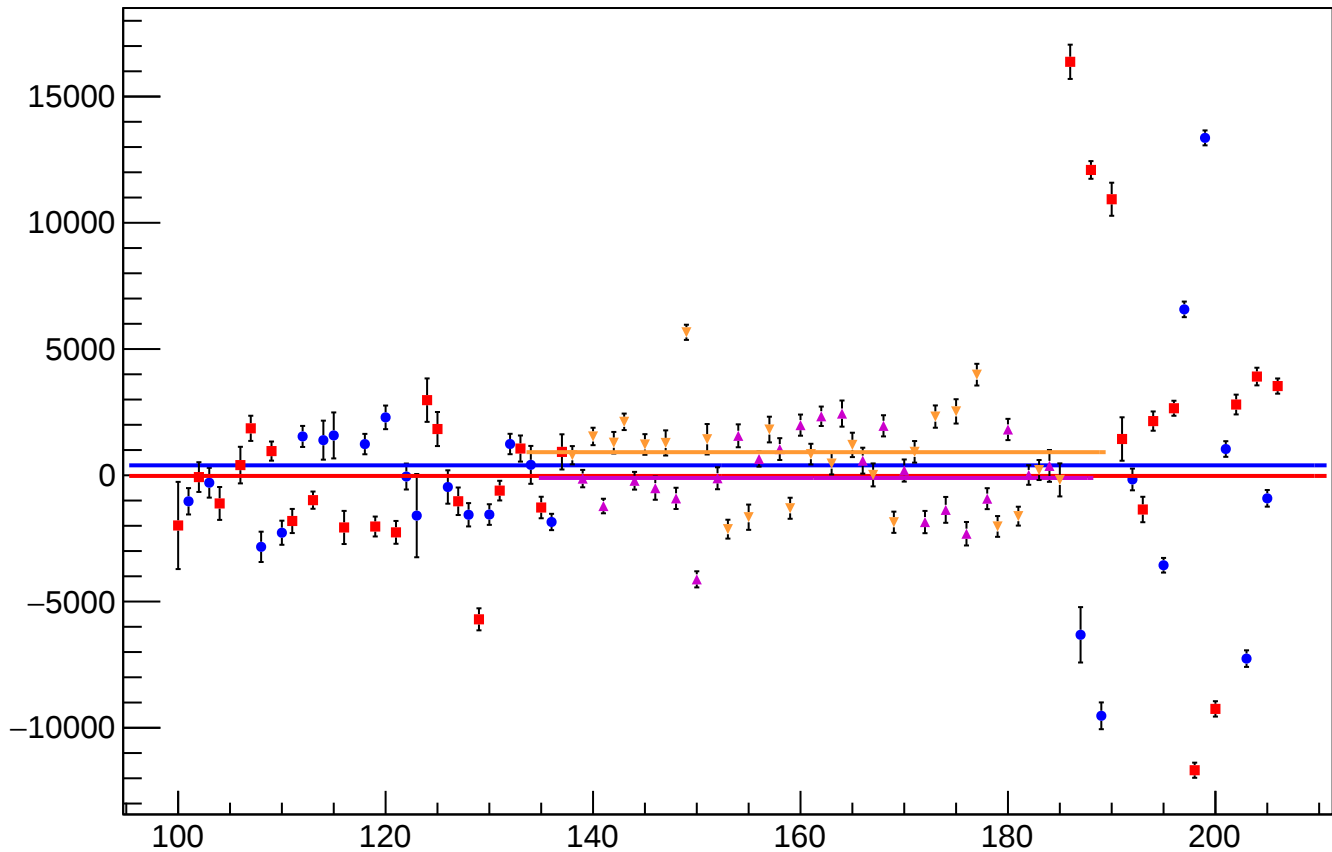
Right: 216.267 $\pm$ 0.030 χ^2 /NDF: 2972625.7/56

In: 215.534 $\pm$ 0.029 χ^2 /NDF: 2176838.3/48

Out: 222.339 $\pm$ 0.028 χ^2 /NDF: 2696411.9/55

All: 218.996 $\pm$ 0.020 χ^2 /NDF: 4902243.9/104

asym_bpm0l02WS_mean vs Slug, Sign Corrected



Right In: 394.156+/-84.485 χ^2/NDF : 3657.4/25

Left Out: 915.968+/-83.398 χ^2/NDF : 618.3/24

Right Out: -25.224+/-79.330 χ^2/NDF : 5248.2/30

Left In: -106.116+/-84.393 χ^2/NDF : 390.3/22

Left: 410.985+/-59.320 χ^2/NDF : 1082.8/47

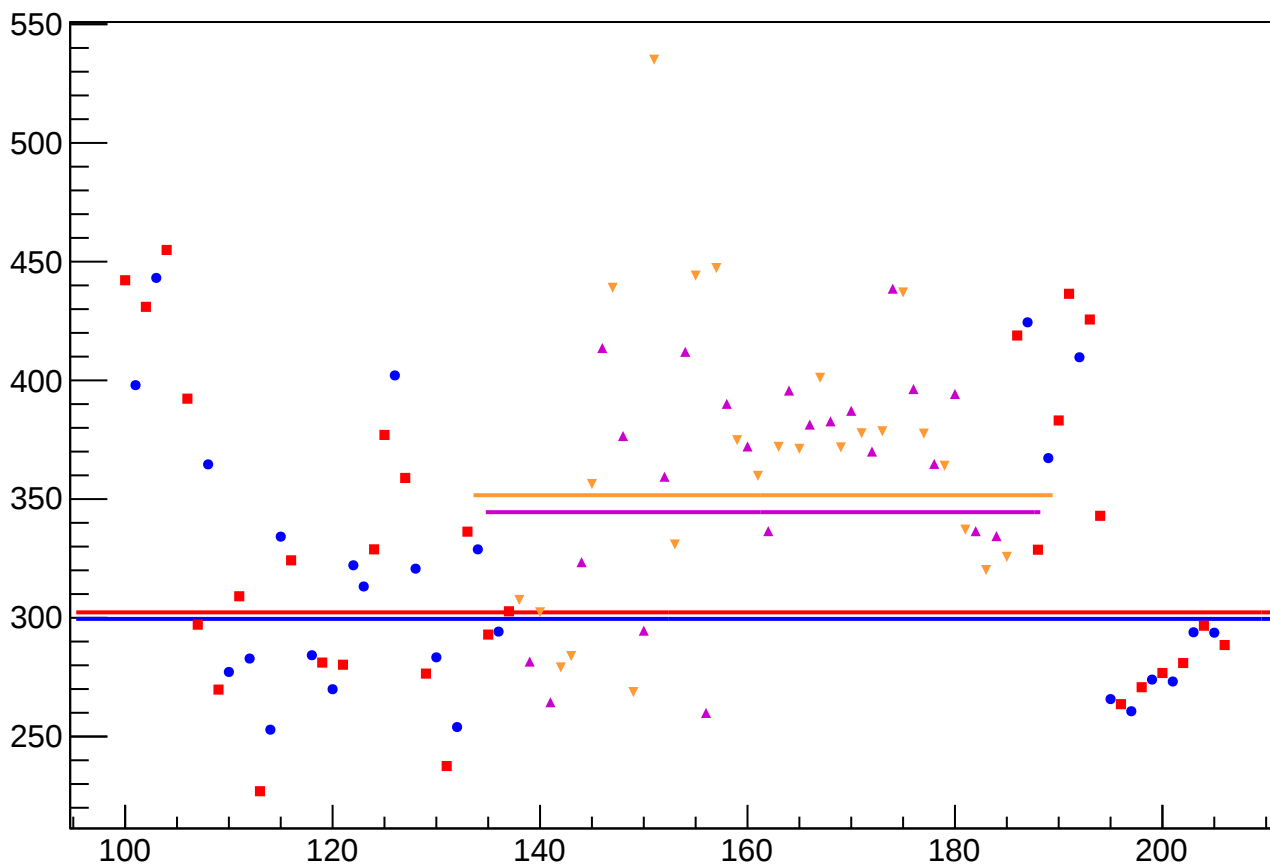
Right: 171.282+/-57.831 χ^2/NDF : 8918.7/56

In: 143.748+/-59.707 χ^2/NDF : 4065.2/48

Out: 421.856+/-57.479 χ^2/NDF : 5933.4/55

All: 288.088+/-41.409 χ^2/NDF : 10009.9/104

asym_bpm0l02WS_rms vs Slug, Sign Corrected



Right In: 299.547 $\pm$ 0.060 χ^2 /NDF: 608887.5/25

Left Out: 351.633 $\pm$ 0.059 χ^2 /NDF: 907849.3/24

Right Out: 302.289 $\pm$ 0.056 χ^2 /NDF: 867398.4/30

Left In: 344.491 $\pm$ 0.060 χ^2 /NDF: 768885.4/22

Left: 348.104 $\pm$ 0.042 χ^2 /NDF: 1683981.7/47

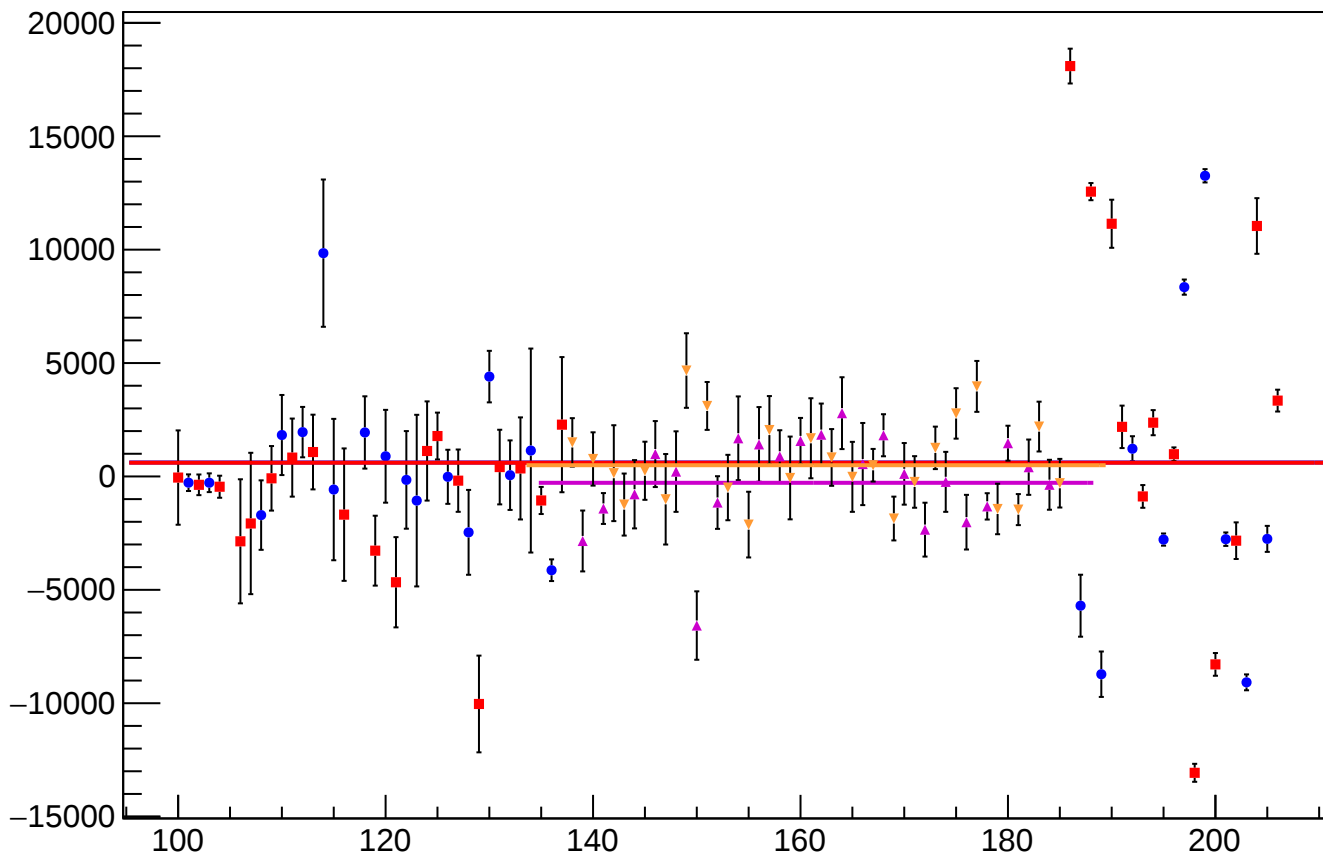
Right: 301.004 $\pm$ 0.041 χ^2 /NDF: 1477405.8/56

In: 322.043 $\pm$ 0.042 χ^2 /NDF: 1661081.0/48

Out: 325.728 $\pm$ 0.041 χ^2 /NDF: 2142806.0/55

All: 323.956 $\pm$ 0.029 χ^2 /NDF: 3807841.0/104

asym_bpm0l03WS_mean vs Slug, Sign Corrected



Right In: 614.834+/-108.926 χ^2/NDF : 3719.2/25

Left Out: 495.014+/-231.058 χ^2/NDF : 56.2/24

Right Out: 605.344+/-126.293 χ^2/NDF : 3328.6/30

Left In: -280.692+/-232.048 χ^2/NDF : 57.2/22

Left: 108.818+/-163.732 χ^2/NDF : 119.1/47

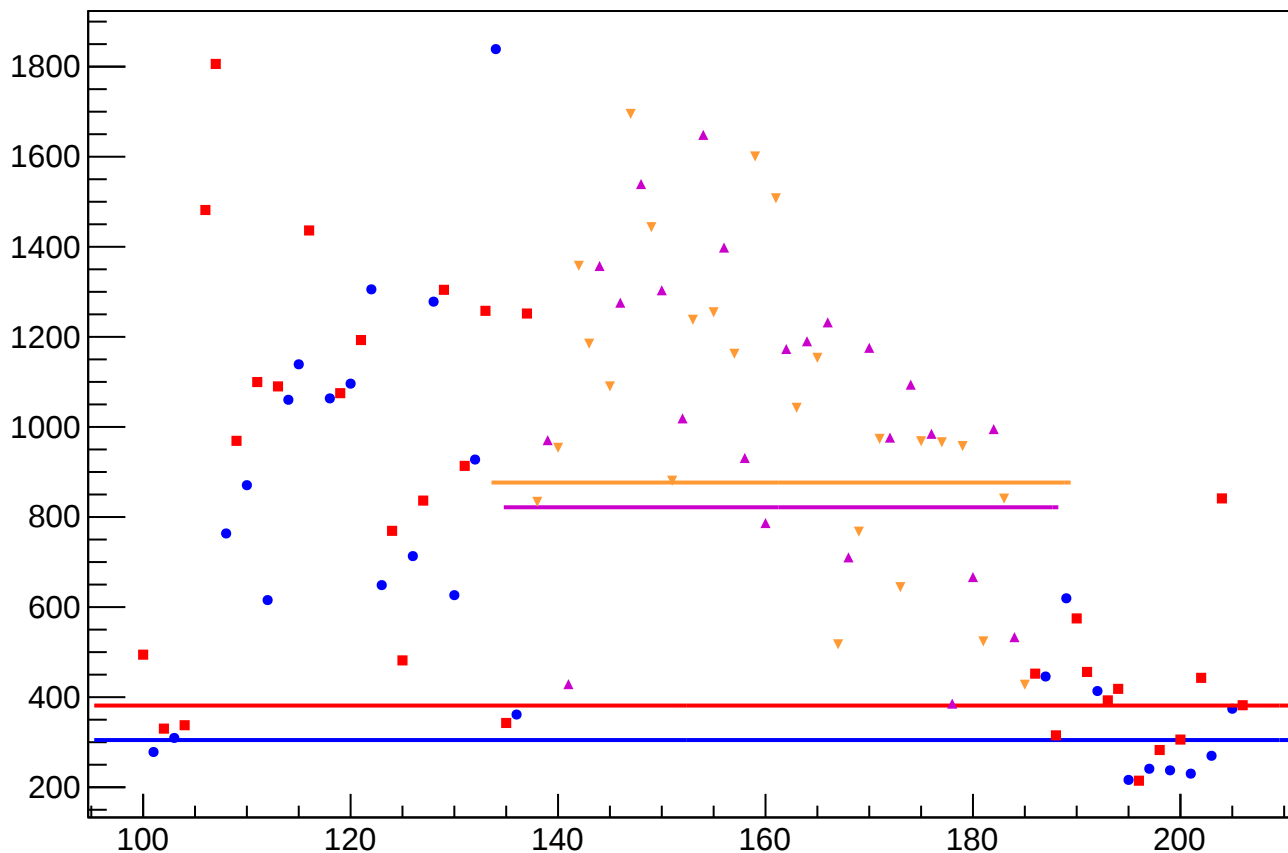
Right: 610.786+/-82.485 χ^2/NDF : 7047.8/56

In: 453.137+/-98.603 χ^2/NDF : 3788.7/48

Out: 579.964+/-110.819 χ^2/NDF : 3385.0/55

All: 509.177+/-73.665 χ^2/NDF : 7174.4/104

asym_bpm0l03WS_rms vs Slug, Sign Corrected



Right In: 304.797+/-0.077 χ^2/NDF : 4398257.6/25

Left Out: 876.560+/-0.163 χ^2/NDF :3434698.7/24

Right Out: 381.408+/-0.089 χ^2/NDF : 5457549.0/30

Left In: 821.657+/-0.164 χ^2/NDF :4443094.2/22

Left: 849.226+/-0.116 χ^2/NDF : 7934012.4/47

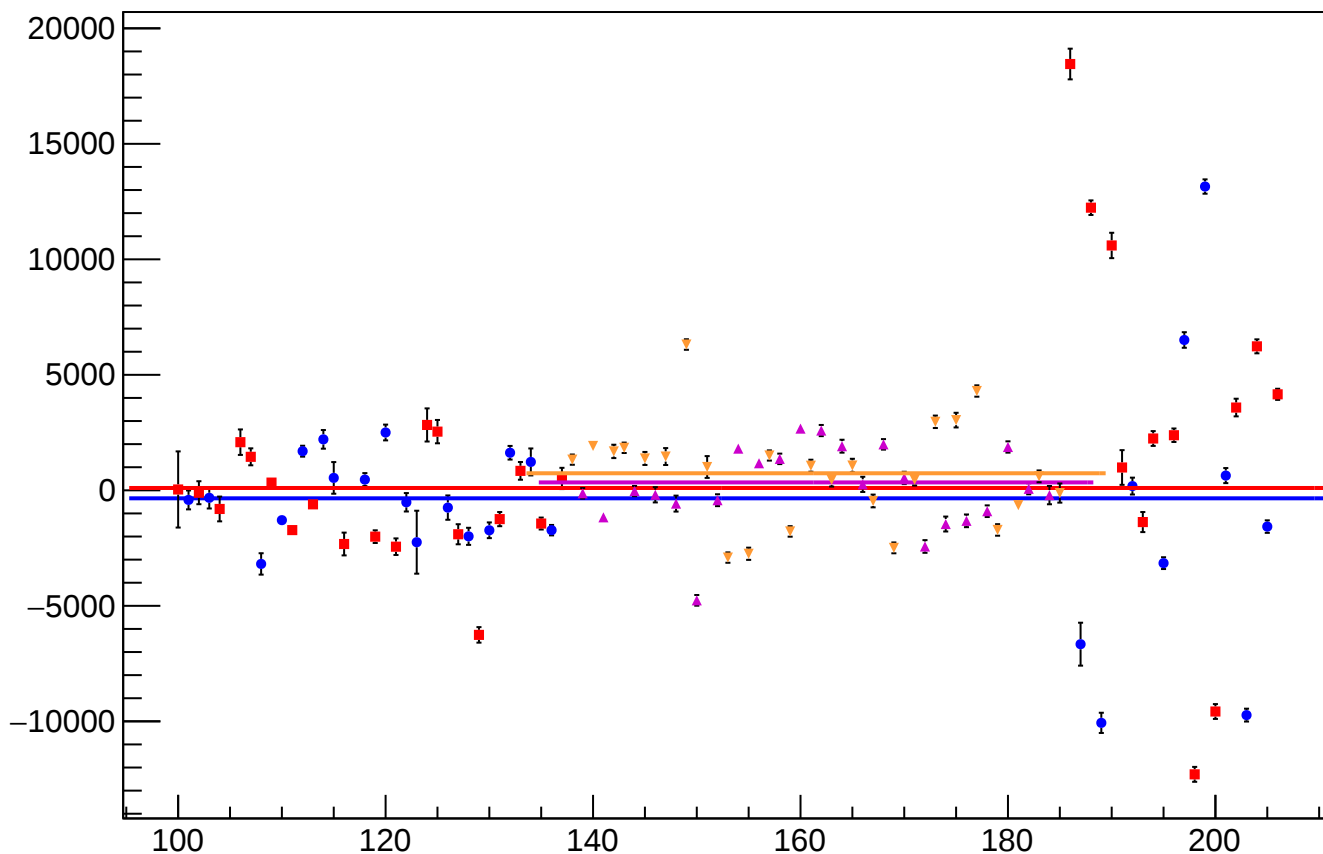
Right: 337.477+/-0.058 χ^2/NDF : 10277822.1/56

In: 398.122+/-0.070 χ^2/NDF :16972246.1/48

Out: 495.309+/-0.078 χ^2/NDF :15964175.4/55

All: 441.066+/-0.052 χ^2/NDF : 33794939.4/10

asym_bpm0l04WS_mean vs Slug, Sign Corrected



Right In: -345.784 ± 65.784 $\chi^2/\text{NDF}: 4512.0/25$

Left Out: 738.847 ± 51.649 $\chi^2/\text{NDF}: 1935.2/24$

Right Out: 101.618 ± 60.226 $\chi^2/\text{NDF}: 6625.2/30$

Left In: 342.465 ± 50.044 $\chi^2/\text{NDF}: 1254.9/22$

Left: 534.403 ± 35.941 $\chi^2/\text{NDF}: 3220.5/47$

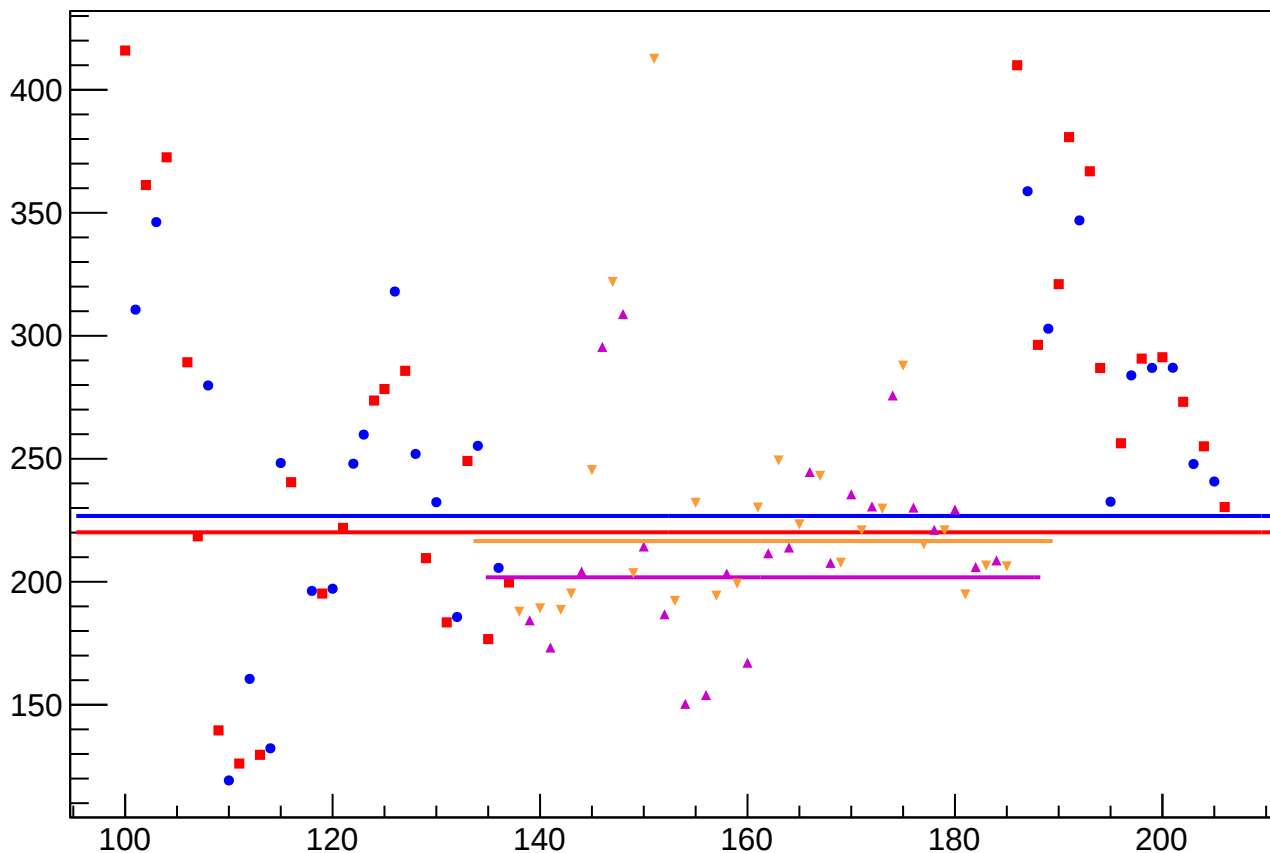
Right: -102.386 ± 44.421 $\chi^2/\text{NDF}: 11162.4/56$

In: 90.171 ± 39.829 $\chi^2/\text{NDF}: 5836.3/48$

Out: 468.800 ± 39.206 $\chi^2/\text{NDF}: 8624.9/55$

All: 282.471 ± 27.941 $\chi^2/\text{NDF}: 14507.0/104$

asym_bpm0l04WS_rms vs Slug, Sign Corrected



Right In: 226.761 ± 0.047 $\chi^2/\text{NDF}: 1774844.3/25$

Left Out: 216.574 ± 0.037 $\chi^2/\text{NDF}: 886214.1/24$

Right Out: 220.116 ± 0.043 $\chi^2/\text{NDF}: 2836130.2/30$

Left In: 201.805 ± 0.035 $\chi^2/\text{NDF}: 1087243.4/22$

Left: 208.957 ± 0.025 $\chi^2/\text{NDF}: 2057801.5/47$

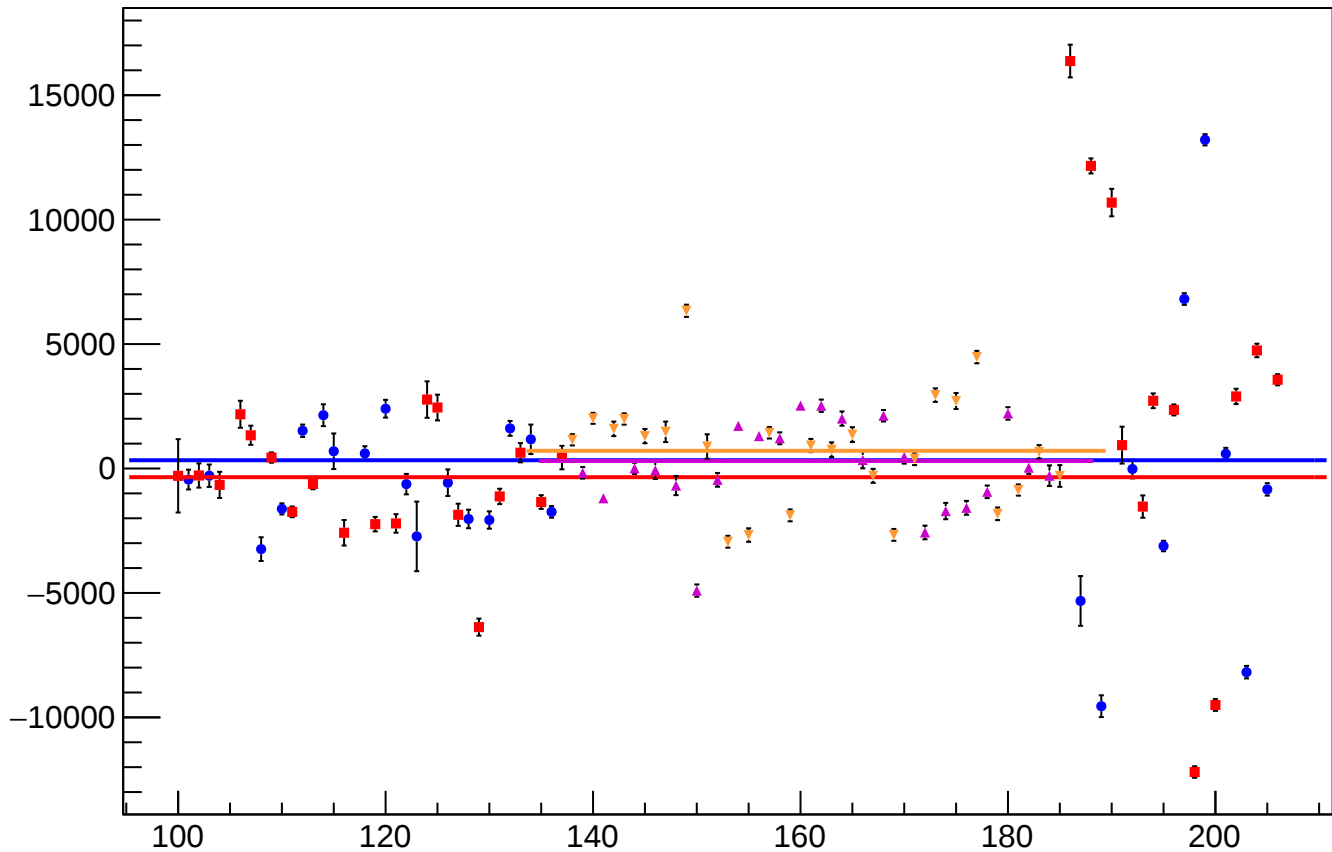
Right: 223.146 ± 0.031 $\chi^2/\text{NDF}: 4622078.1/56$

In: 210.954 ± 0.028 $\chi^2/\text{NDF}: 3044404.7/48$

Out: 218.075 ± 0.028 $\chi^2/\text{NDF}: 3726329.4/55$

All: 214.570 ± 0.020 $\chi^2/\text{NDF}: 6803207.4/104$

asym_bpm0l05WS_mean vs Slug, Sign Corrected



Right In: 332.167+/-62.094 χ^2/NDF : 6404.4/25

Left Out: 711.174+/-53.245 χ^2/NDF :1835.3/24

Right Out: -349.075+/-57.924 χ^2/NDF : 8452.5/30

Left In: 300.516+/-51.984 χ^2/NDF :1208.6/22

Left: 500.925+/-37.196 χ^2/NDF : 3074.4/47

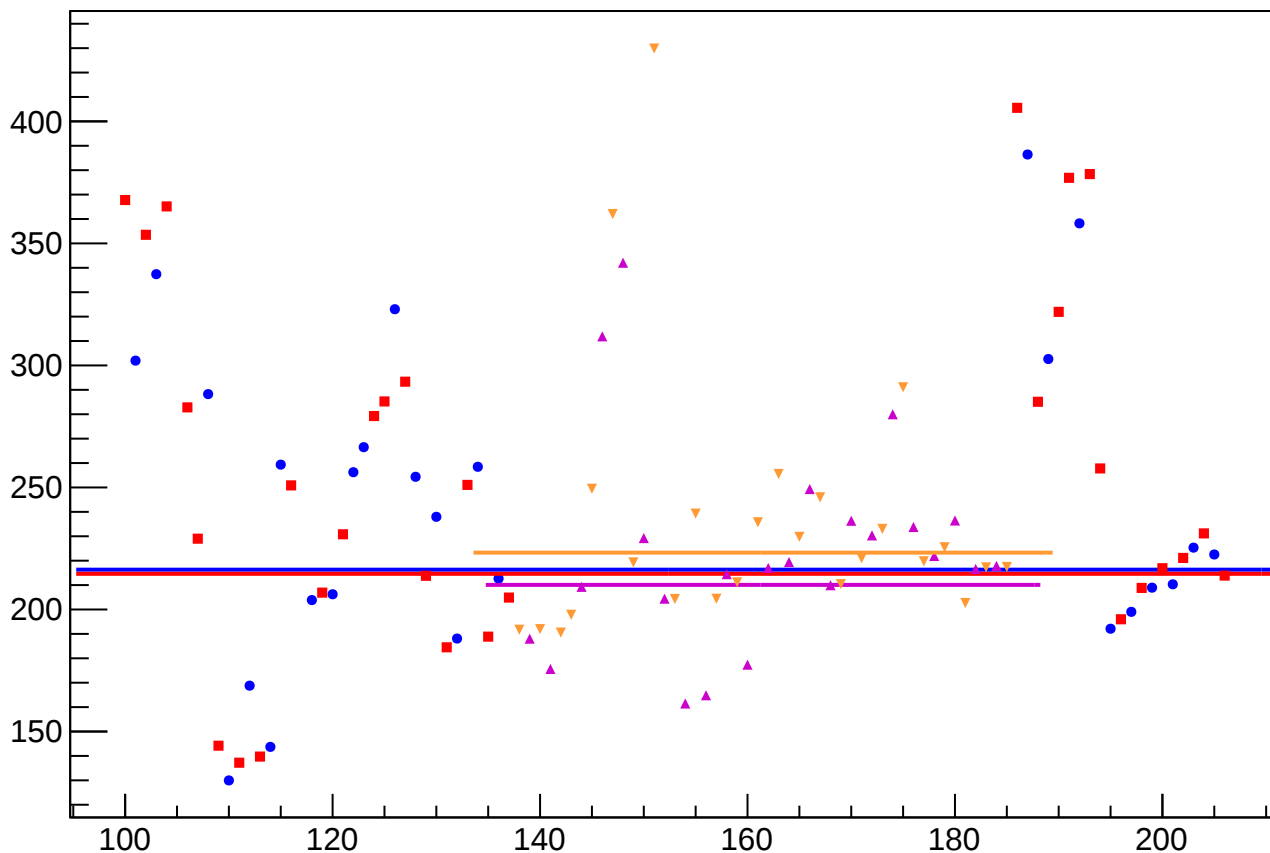
Right: -32.093+/-42.356 χ^2/NDF : 14921.2/56

In: 313.559+/-39.860 χ^2/NDF :7613.2/48

Out: 225.599+/-39.200 χ^2/NDF :10469.4/55

All: 268.845+/-27.949 χ^2/NDF : 18085.0/104

asym_bpm0l05WS_rms vs Slug, Sign Corrected



Right In: 216.316 $\pm$ 0.044 χ^2 /NDF: 1345399.9/25

Left Out: 223.296 $\pm$ 0.038 χ^2 /NDF: 922768.4/24

Right Out: 214.613 $\pm$ 0.041 χ^2 /NDF: 2093538.5/30

Left In: 210.080 $\pm$ 0.037 χ^2 /NDF: 1015274.5/22

Left: 216.530 $\pm$ 0.026 χ^2 /NDF: 2001132.1/47

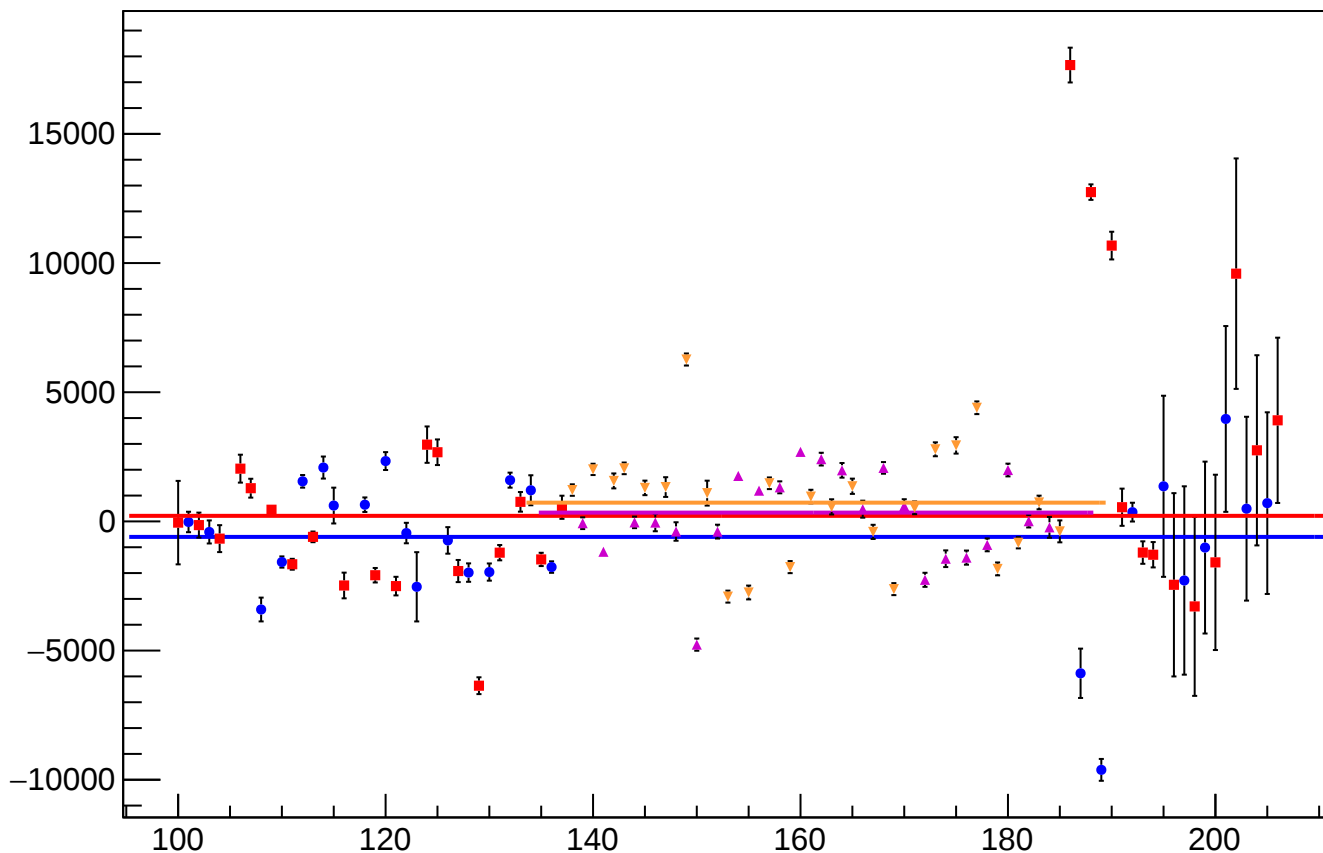
Right: 215.405 $\pm$ 0.030 χ^2 /NDF: 3439742.4/56

In: 212.649 $\pm$ 0.028 χ^2 /NDF: 2372532.7/48

Out: 219.320 $\pm$ 0.028 χ^2 /NDF: 3040667.4/55

All: 216.040 $\pm$ 0.020 χ^2 /NDF: 5441670.4/104

asym_bpm0l06WS_mean vs Slug, Sign Corrected



Right In: -600.021+/-79.079 χ^2/NDF : 894.0/25

Left Out: 725.866+/-52.158 χ^2/NDF :1912.7/24

Right Out: 215.241+/-69.979 χ^2/NDF : 3639.7/30

Left In: 340.502+/-50.802 χ^2/NDF :1201.8/22

Left: 528.110+/-36.393 χ^2/NDF : 3142.6/47

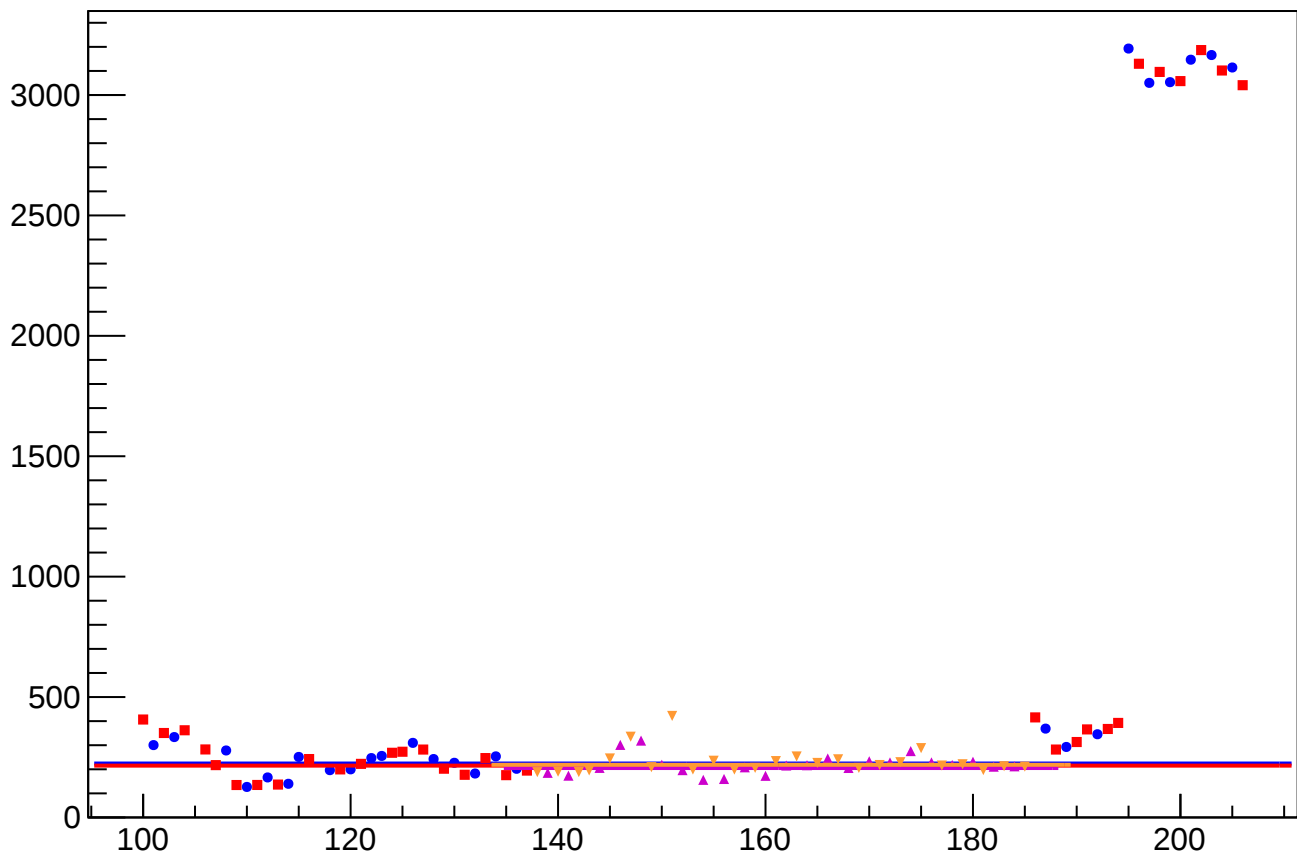
Right: -142.802+/-52.406 χ^2/NDF : 4593.3/56

In: 65.737+/-42.742 χ^2/NDF :2195.9/48

Out: 543.504+/-41.820 χ^2/NDF :5586.7/55

All: 309.831+/-29.892 χ^2/NDF : 7846.5/104

asym_bpm0l06WS_rms vs Slug, Sign Corrected



Right In: 223.956+/-0.056 χ^2/NDF : 9426453.0/25

Left Out: 218.768+/-0.037 χ^2/NDF : 896914.5/24

Right Out: 215.227+/-0.049 χ^2/NDF : 10252915.9/30

Left In: 205.249+/-0.036 χ^2/NDF : 997168.8/22

Left: 211.831+/-0.026 χ^2/NDF : 1963037.5/47

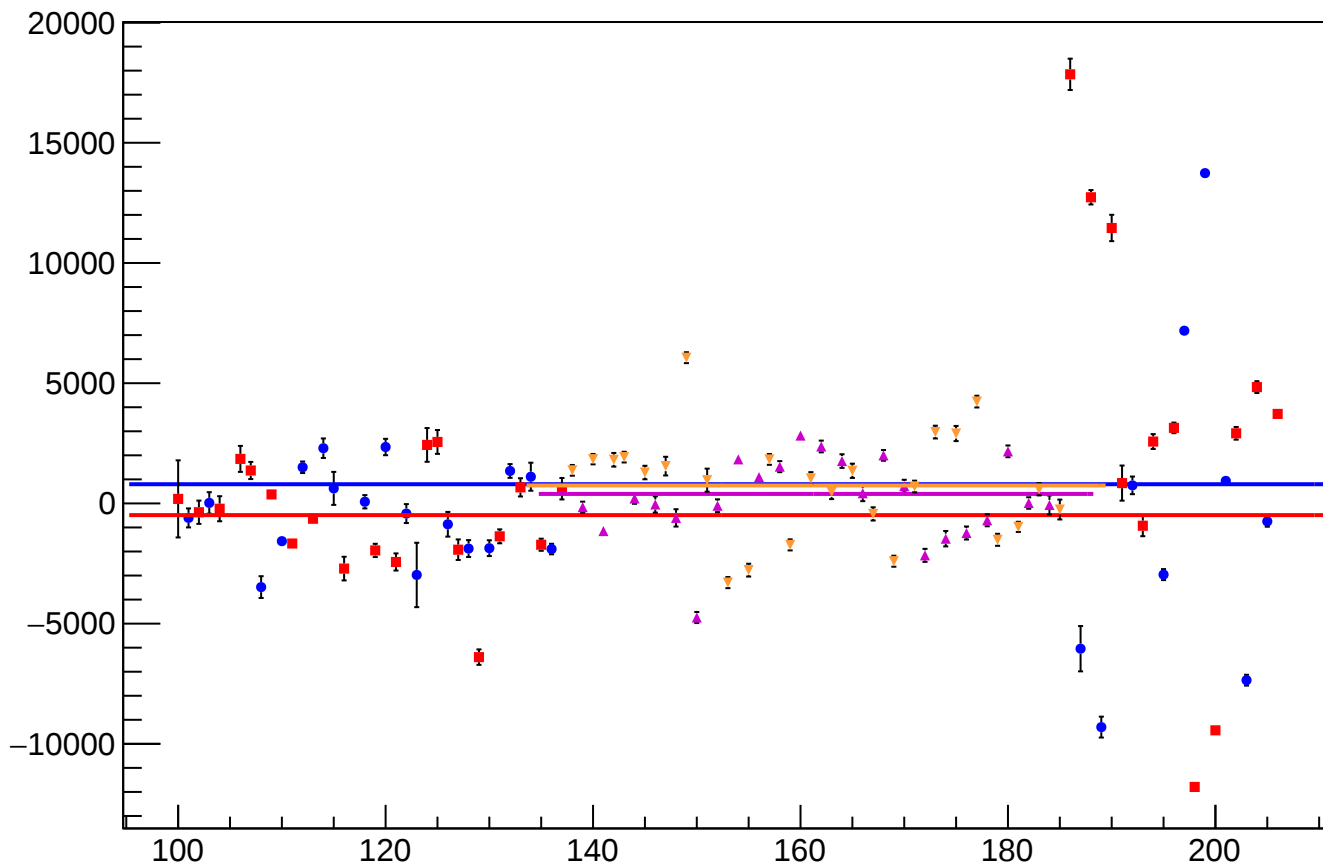
Right: 219.061+/-0.037 χ^2/NDF : 19693035.8/56

In: 210.714+/-0.030 χ^2/NDF : 10502848.0/48

Out: 217.504+/-0.030 χ^2/NDF : 11153123.2/55

All: 214.183+/-0.021 χ^2/NDF : 21681754.8/10

asym_bpm0l07WS_mean vs Slug, Sign Corrected



Right In: 798.316 $\pm$ 58.093 χ^2 /NDF: 8271.2/25

Left Out: 746.405 $\pm$ 51.592 χ^2 /NDF:1942.1/24

Right Out: -486.544 $\pm$ 54.074 χ^2 /NDF: 10302.7/30

Left In: 394.379 $\pm$ 50.311 χ^2 /NDF:1236.4/22

Left: 565.969 $\pm$ 36.020 χ^2 /NDF: 3202.4/47

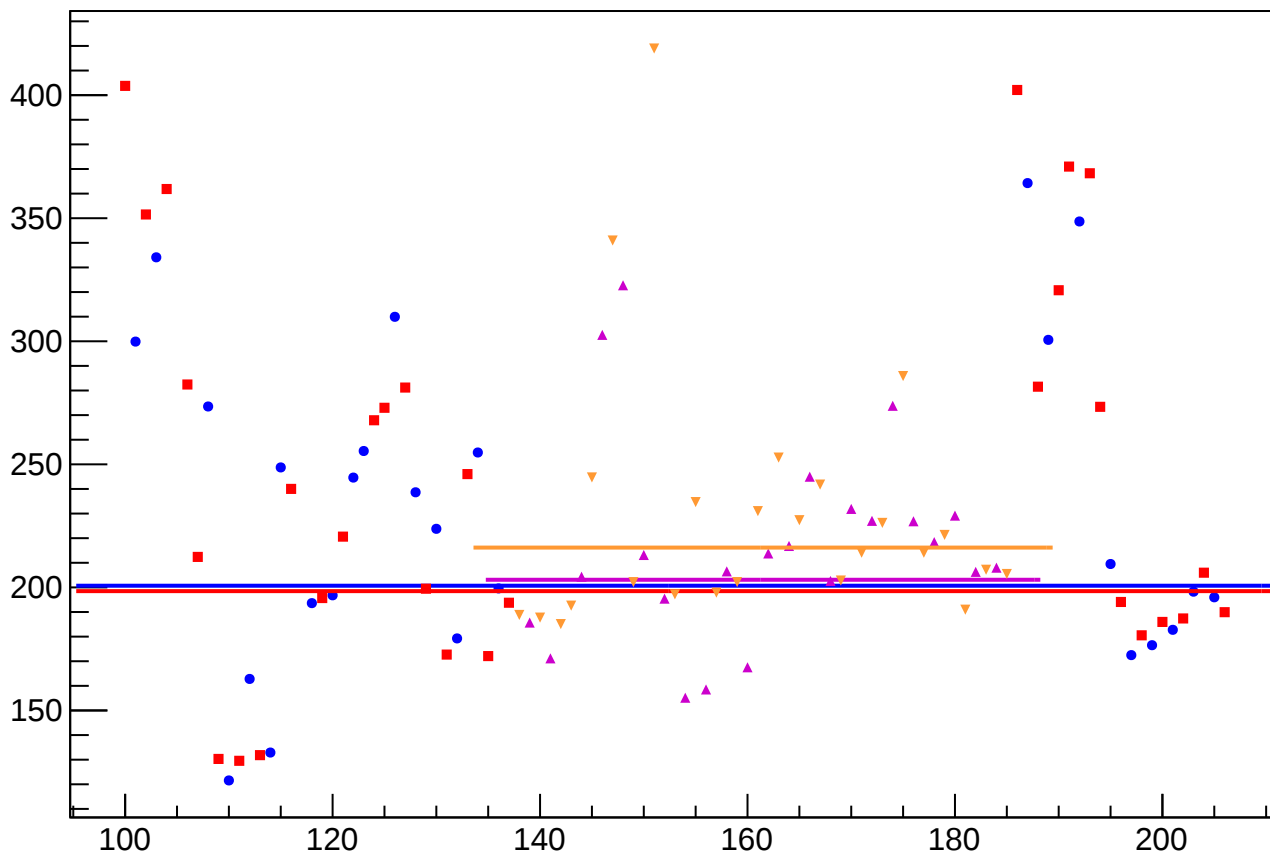
Right: 109.906 $\pm$ 39.581 χ^2 /NDF: 18835.9/56

In: 567.500 $\pm$ 38.031 χ^2 /NDF:9535.2/48

Out: 158.876 $\pm$ 37.327 χ^2 /NDF:12516.9/55

All: 359.372 $\pm$ 26.640 χ^2 /NDF: 22110.9/104

asym_bpm0l07WS_rms vs Slug, Sign Corrected



Right In: 200.685 $\pm$ 0.041 χ^2 /NDF: 1519601.2/25

Left Out: 216.178 $\pm$ 0.036 χ^2 /NDF: 946050.8/24

Right Out: 198.482 $\pm$ 0.038 χ^2 /NDF: 2442087.7/30

Left In: 203.101 $\pm$ 0.036 χ^2 /NDF: 1038013.0/22

Left: 209.475 $\pm$ 0.025 χ^2 /NDF: 2049926.5/47

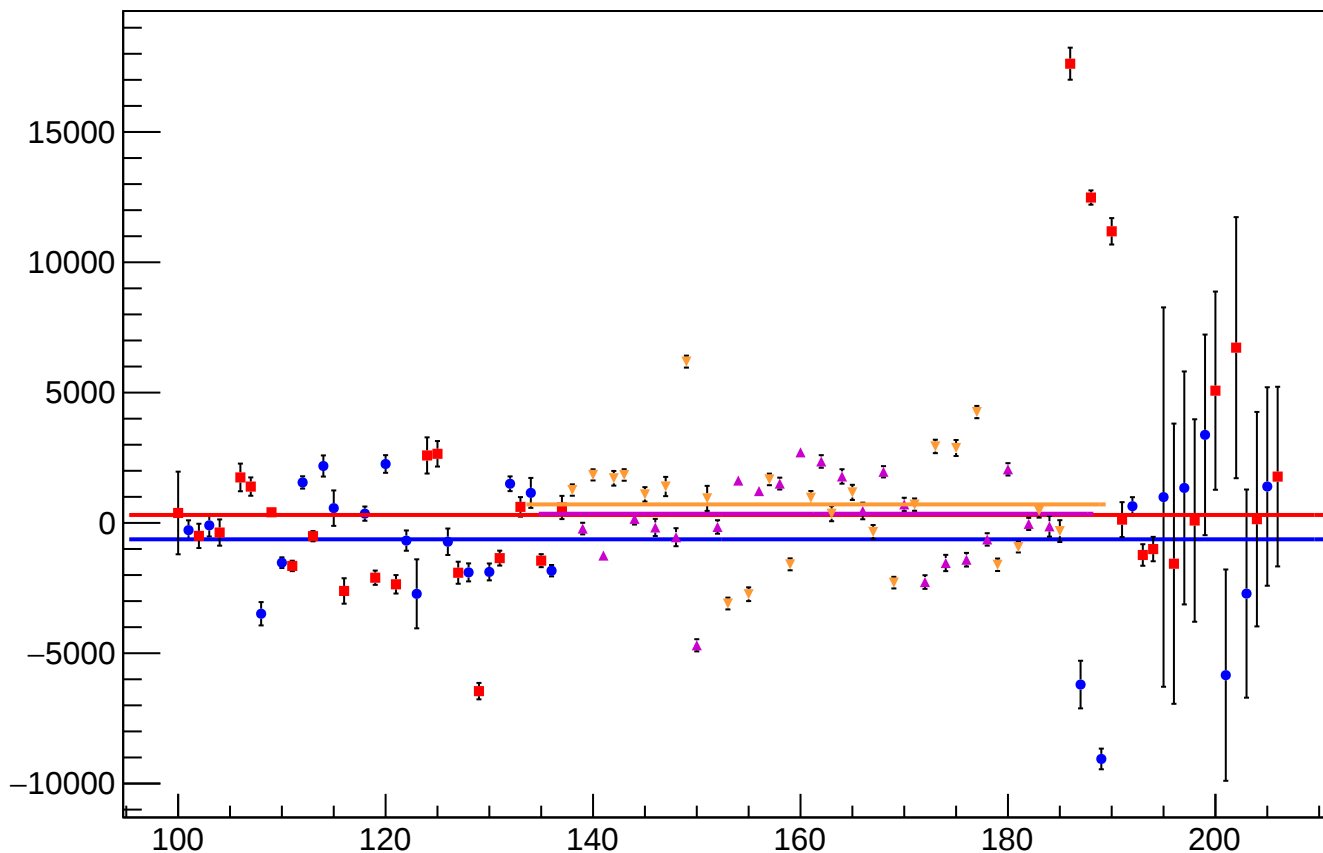
Right: 199.504 $\pm$ 0.028 χ^2 /NDF: 3963230.1/56

In: 202.065 $\pm$ 0.027 χ^2 /NDF: 2559590.9/48

Out: 207.745 $\pm$ 0.026 χ^2 /NDF: 3500267.2/55

All: 204.958 $\pm$ 0.019 χ^2 /NDF: 6082579.4/104

asym_bpm0l08WS_mean vs Slug, Sign Corrected



Right In: -629.360 ± 76.446 χ^2/NDF : 918.2/25

Left Out: 710.238 ± 50.750 χ^2/NDF : 1932.3/24

Right Out: 305.564 ± 67.119 χ^2/NDF : 4164.7/30

Left In: 352.432 ± 49.316 χ^2/NDF : 1233.1/22

Left: 526.207 ± 35.368 χ^2/NDF : 3190.9/47

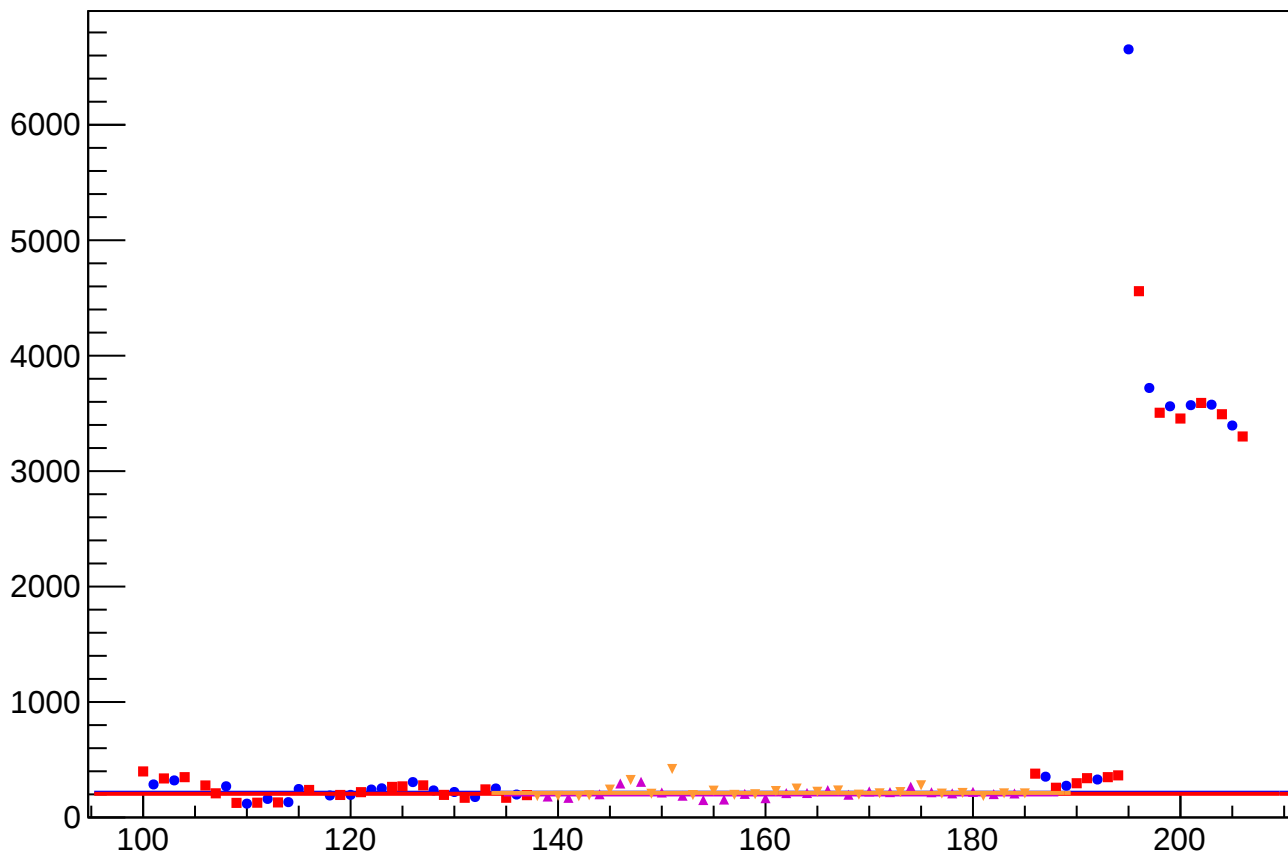
Right: -101.415 ± 50.437 χ^2/NDF : 5167.4/56

In: 63.916 ± 41.441 χ^2/NDF : 2267.7/48

Out: 563.035 ± 40.481 χ^2/NDF : 6120.1/55

All: 319.324 ± 28.958 χ^2/NDF : 8462.1/104

asym_bpm0l08WS_rms vs Slug, Sign Corrected



Right In: 214.367 $\pm$ 0.054 χ^2 /NDF: 9803965.3/25

Left Out: 212.718 $\pm$ 0.036 χ^2 /NDF: 916225.9/24

Right Out: 204.826 $\pm$ 0.047 χ^2 /NDF: 10443415.7/30

Left In: 199.142 $\pm$ 0.035 χ^2 /NDF: 985932.4/22

Left: 205.736 $\pm$ 0.025 χ^2 /NDF: 1975772.3/47

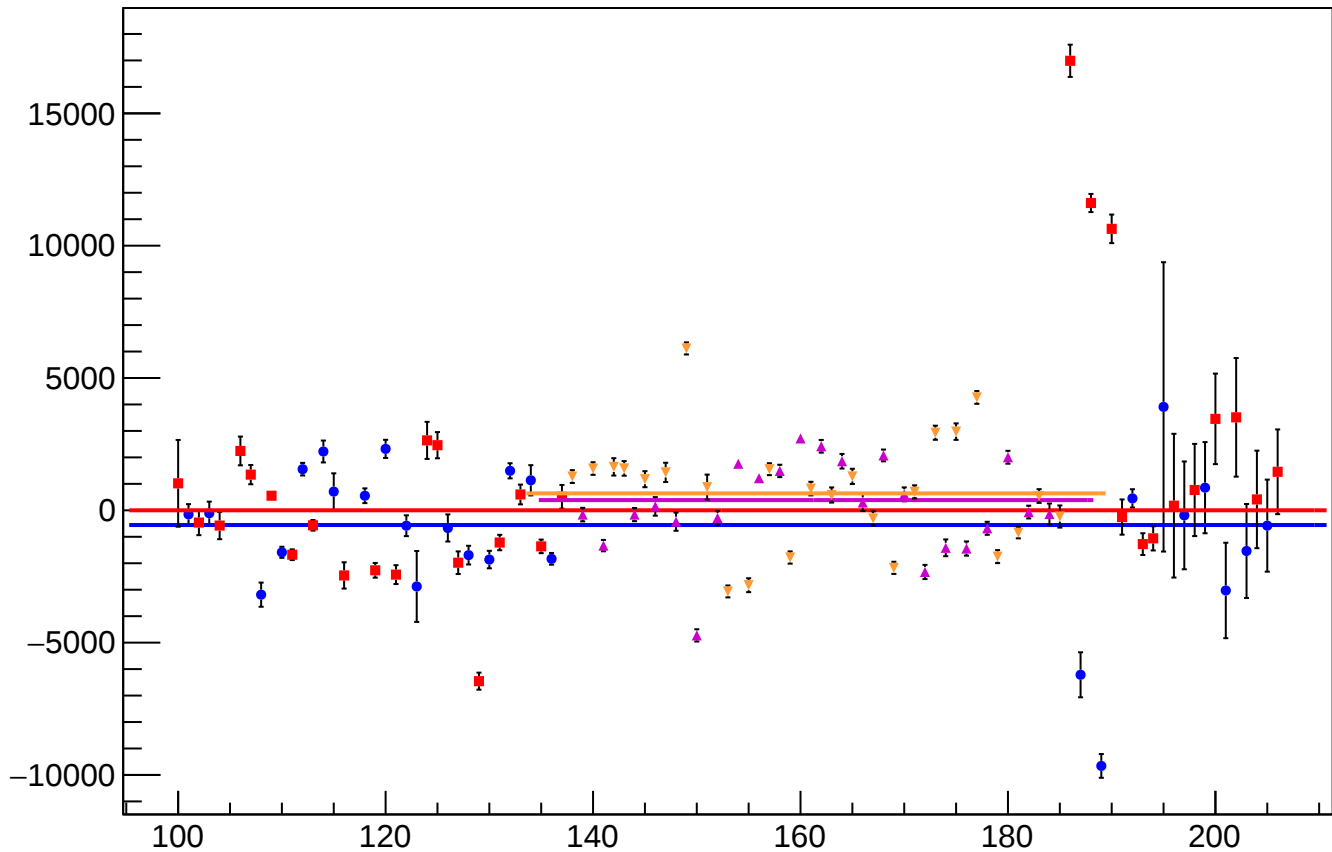
Right: 208.979 $\pm$ 0.036 χ^2 /NDF: 20264975.7/56

In: 203.616 $\pm$ 0.029 χ^2 /NDF: 10845916.3/48

Out: 209.847 $\pm$ 0.029 χ^2 /NDF: 11377238.2/55

All: 206.805 $\pm$ 0.020 χ^2 /NDF: 22246292.6/100

asym_bpm0l09WS_mean vs Slug, Sign Corrected



Right In: -555.589 ± 77.507 χ^2/NDF : 862.5/25

Left Out: 639.995 ± 52.708 χ^2/NDF : 1859.2/24

Right Out: 0.897 ± 68.830 χ^2/NDF : 3103.6/30

Left In: 386.248 ± 50.994 χ^2/NDF : 1238.0/22

Left: 508.926 ± 36.649 χ^2/NDF : 3109.2/47

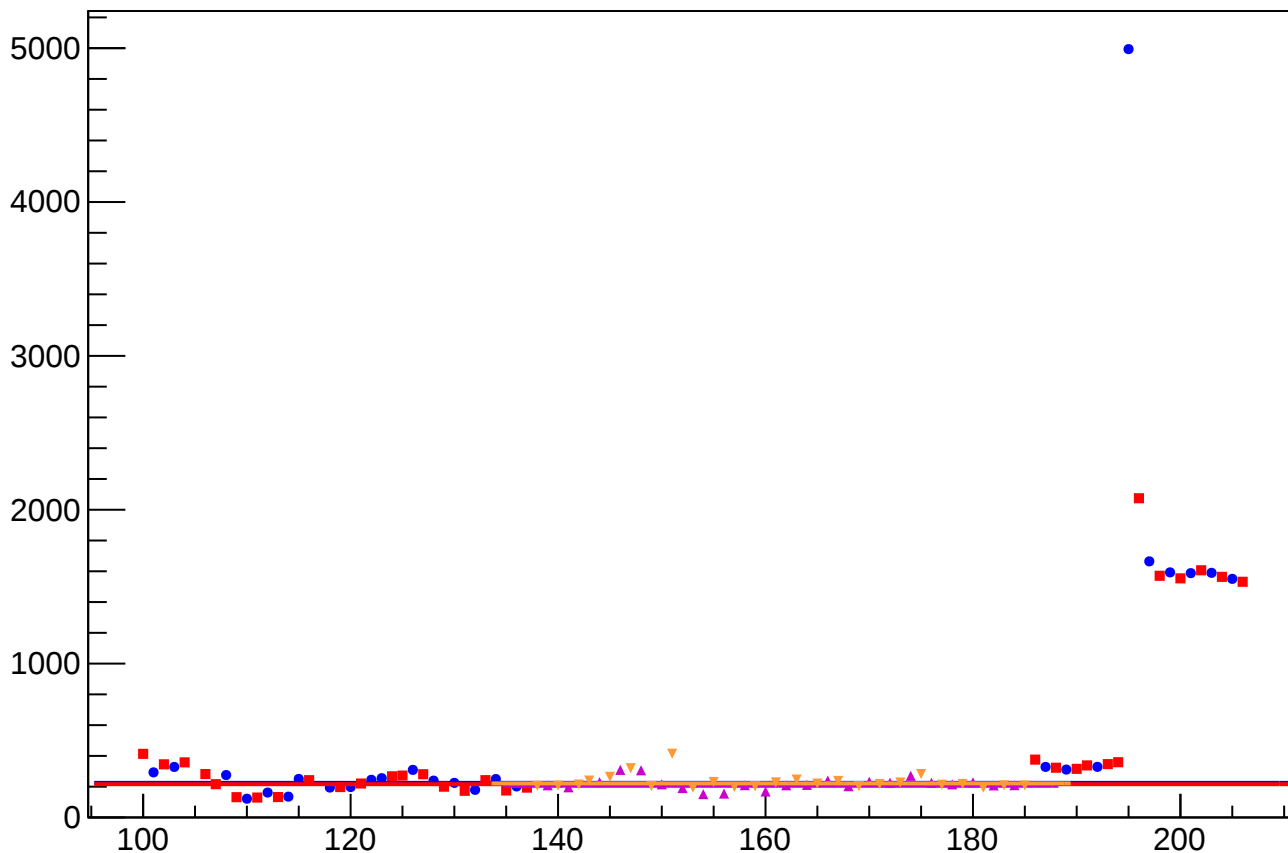
Right: -244.465 ± 51.466 χ^2/NDF : 3994.9/56

In: 101.723 ± 42.600 χ^2/NDF : 2203.6/48

Out: 403.754 ± 41.848 χ^2/NDF : 5017.1/55

All: 255.430 ± 29.853 χ^2/NDF : 7246.3/104

asym_bpm0l09WS_rms vs Slug, Sign Corrected



Right In: 224.875+/-0.055 χ^2/NDF : 8649760.8/25

Left Out: 221.398+/-0.037 χ^2/NDF : 777833.8/24

Right Out: 216.184+/-0.049 χ^2/NDF : 9103255.4/30

Left In: 205.803+/-0.036 χ^2/NDF : 994903.5/22

Left: 213.343+/-0.026 χ^2/NDF : 1863169.5/47

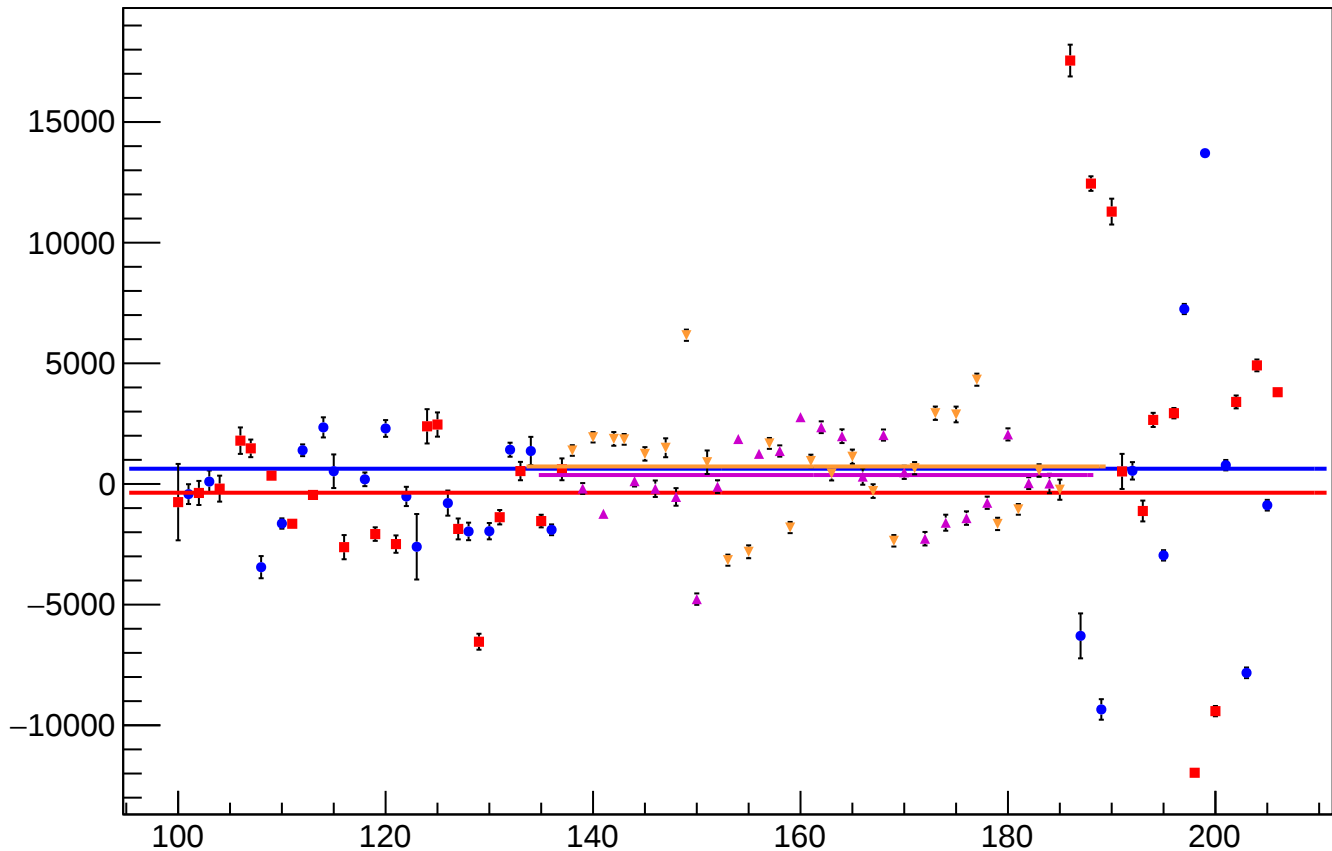
Right: 220.016+/-0.036 χ^2/NDF : 17767076.7/56

In: 211.565+/-0.030 χ^2/NDF : 9729180.3/48

Out: 219.471+/-0.030 χ^2/NDF : 9888323.7/55

All: 215.588+/-0.021 χ^2/NDF : 19652557.9/100

asym_bpm0l10WS_mean vs Slug, Sign Corrected



Right In: 632.060+/-58.692 χ^2/NDF : 8282.7/25

Left Out: 725.250+/-52.307 χ^2/NDF :1883.1/24

Right Out: -362.798+/-54.880 χ^2/NDF : 9977.2/30

Left In: 370.408+/-50.884 χ^2/NDF :1223.2/22

Left: 542.938+/-36.473 χ^2/NDF : 3129.9/47

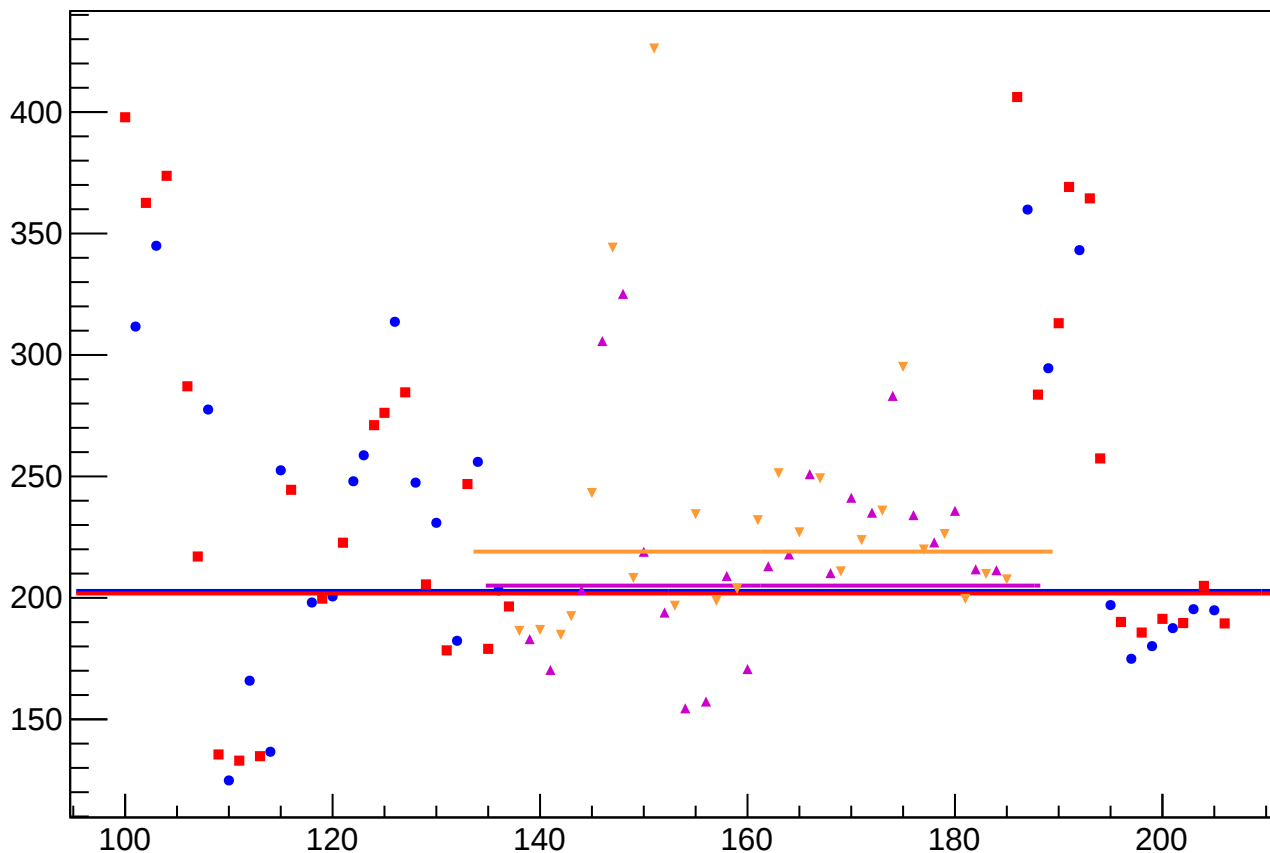
Right: 101.279+/-40.086 χ^2/NDF : 18413.3/56

In: 482.684+/-38.447 χ^2/NDF :9517.3/48

Out: 207.333+/-37.864 χ^2/NDF :12066.3/55

All: 342.904+/-26.978 χ^2/NDF : 21609.6/104

asym_bpm0l10WS_rms vs Slug, Sign Corrected



Right In: 202.852+/-0.042 χ^2/NDF : 1475018.3/25

Left Out: 219.049+/-0.037 χ^2/NDF : 975564.4/24

Right Out: 201.818+/-0.039 χ^2/NDF : 2295240.5/30

Left In: 205.046+/-0.036 χ^2/NDF : 1144197.1/22

Left: 211.855+/-0.026 χ^2/NDF : 2193394.9/47

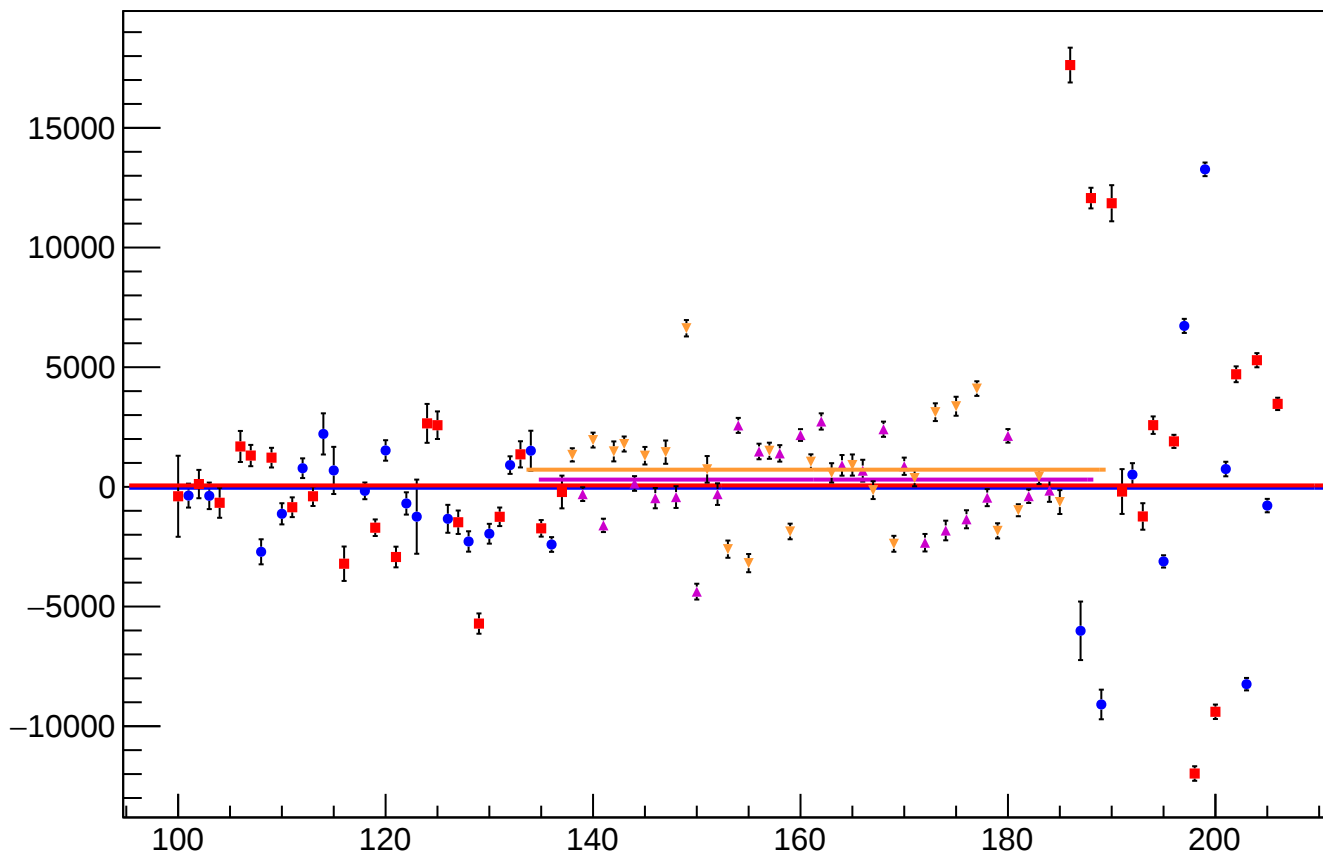
Right: 202.300+/-0.028 χ^2/NDF : 3770589.9/56

In: 204.105+/-0.027 χ^2/NDF : 2620812.0/48

Out: 210.847+/-0.027 χ^2/NDF : 3374109.0/55

All: 207.527+/-0.019 χ^2/NDF : 6026141.7/104

asym_bpm0r03WS_mean vs Slug, Sign Corrected



Right In: -36.874 $\pm$ 78.666 χ^2/NDF : 4289.3/25

Left Out: 718.705 $\pm$ 69.601 χ^2/NDF :1018.5/24

Right Out: 60.343 $\pm$ 76.052 χ^2/NDF : 5322.4/30

Left In: 304.161 $\pm$ 70.958 χ^2/NDF :643.5/22

Left: 515.435 $\pm$ 49.688 χ^2/NDF : 1679.4/47

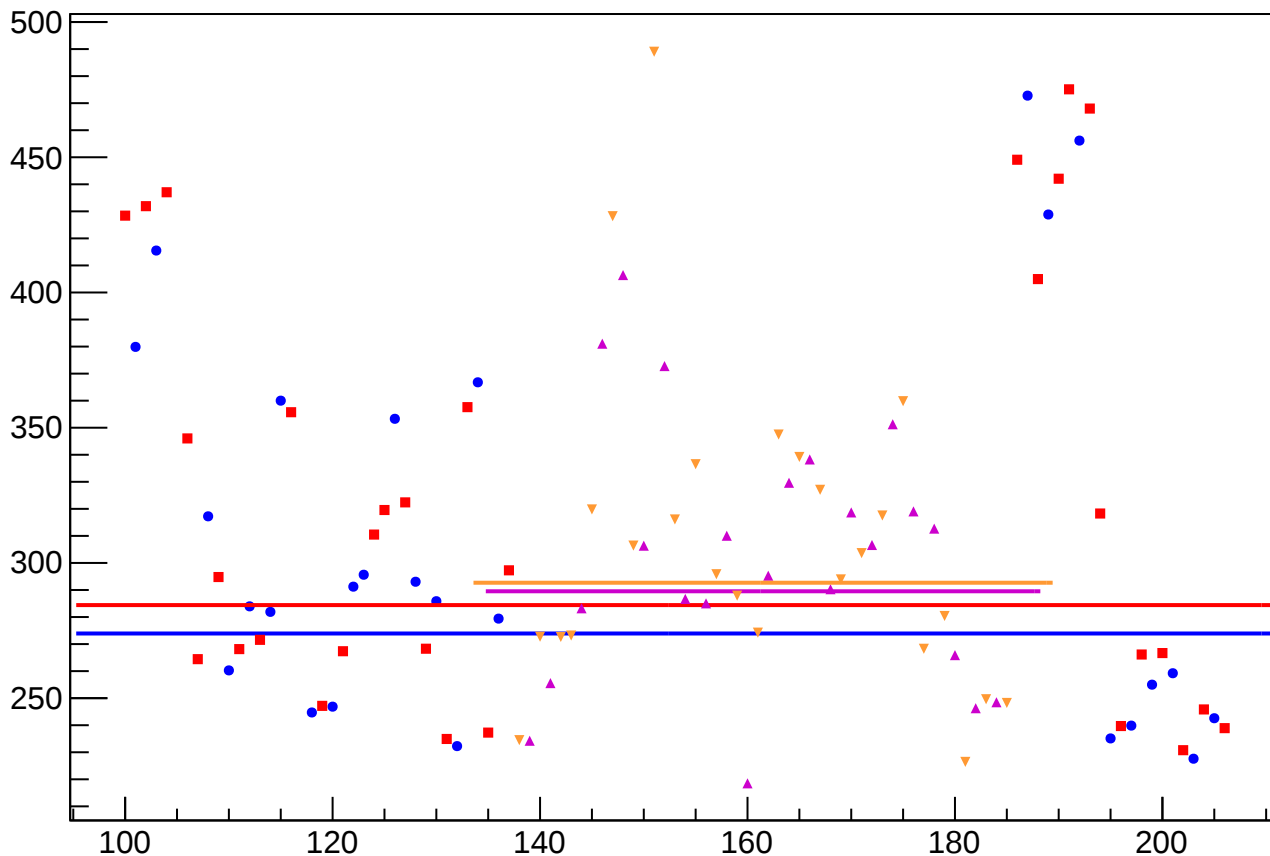
Right: 13.377 $\pm$ 54.678 χ^2/NDF : 9612.5/56

In: 151.167 $\pm$ 52.690 χ^2/NDF :4943.2/48

Out: 418.628 $\pm$ 51.345 χ^2/NDF :6381.7/55

All: 288.355 $\pm$ 36.772 χ^2/NDF : 11338.1/104

asym_bpm0r03WS_rms vs Slug, Sign Corrected



Right In: 273.914 $\pm$ 0.056 χ^2/NDF : 1012492.9/25

Left Out: 292.686 $\pm$ 0.049 χ^2/NDF : 925193.6/24

Right Out: 284.415 $\pm$ 0.054 χ^2/NDF : 1344321.8/30

Left In: 289.522 $\pm$ 0.050 χ^2/NDF : 777901.0/22

Left: 291.134 $\pm$ 0.035 χ^2/NDF : 1705121.5/47

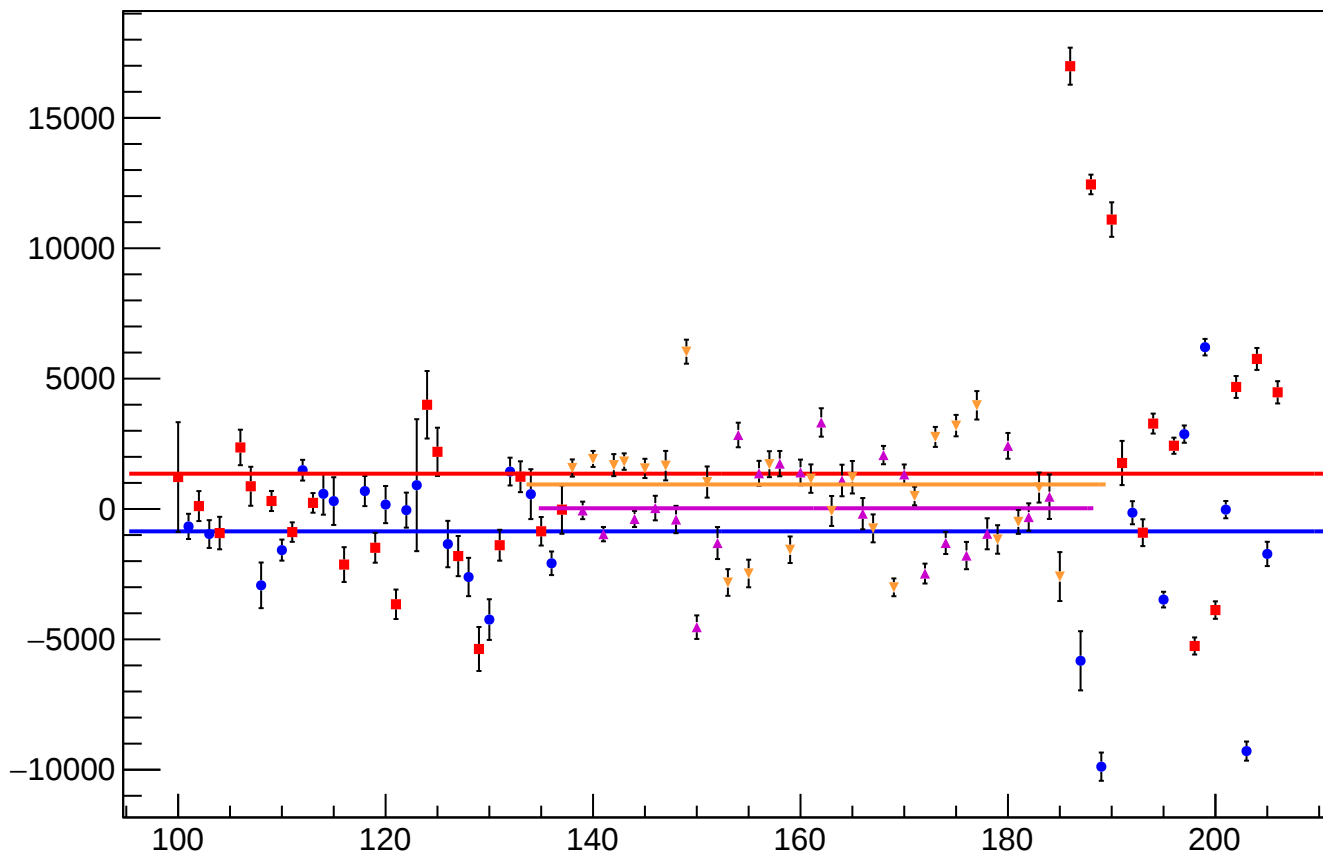
Right: 279.342 $\pm$ 0.039 χ^2/NDF : 2375237.1/56

In: 282.520 $\pm$ 0.037 χ^2/NDF : 1833803.2/48

Out: 288.916 $\pm$ 0.036 χ^2/NDF : 2282387.0/55

All: 285.801 $\pm$ 0.026 χ^2/NDF : 4131308.7/104

asym_bpm0r05WS_mean vs Slug, Sign Corrected



Right In: -857.984 ± 96.908 $\chi^2/\text{NDF}: 1650.7/25$

Left Out: 941.598 ± 89.119 $\chi^2/\text{NDF}: 544.6/24$

Right Out: 1354.282 ± 90.137 $\chi^2/\text{NDF}: 2833.7/30$

Left In: 27.763 ± 92.331 $\chi^2/\text{NDF}: 362.5/22$

Left: 500.853 ± 64.122 $\chi^2/\text{NDF}: 957.8/47$

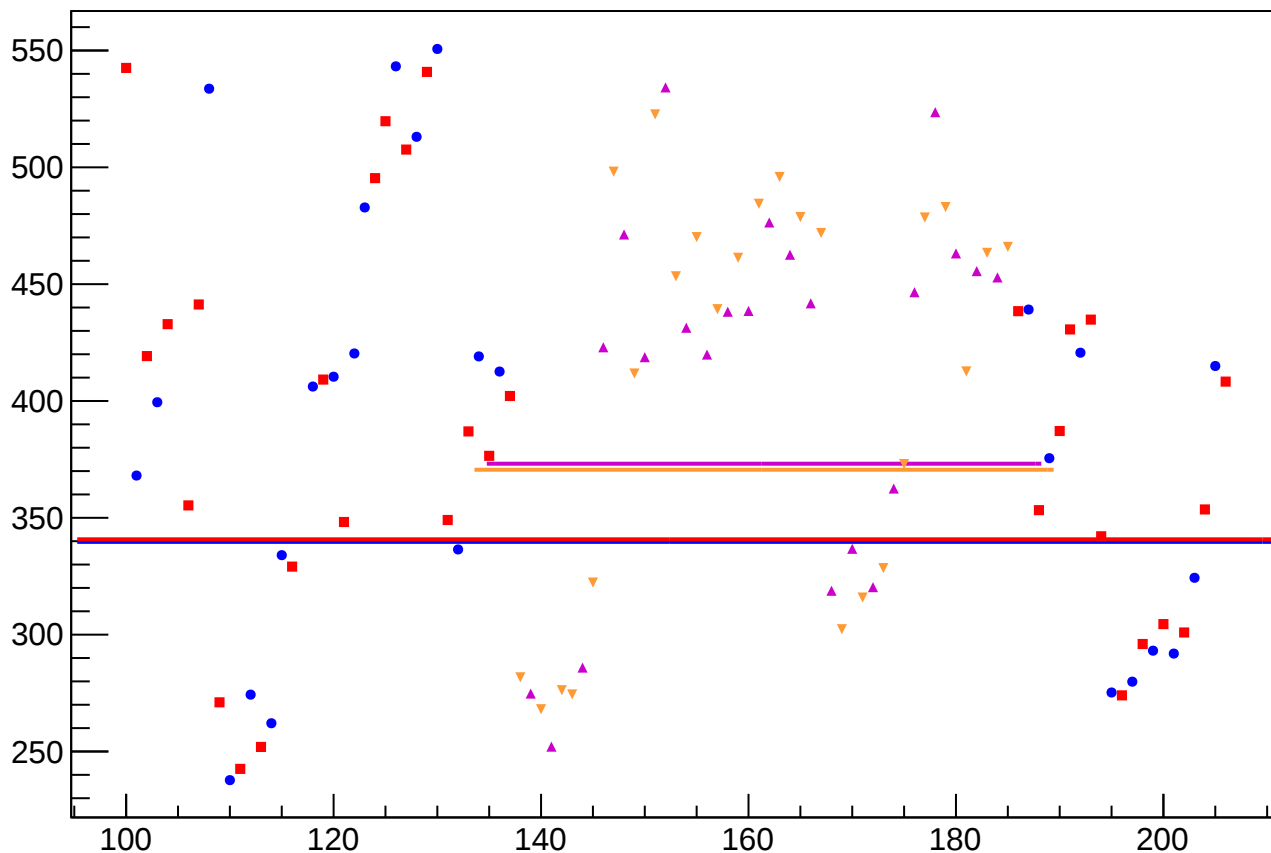
Right: 328.125 ± 66.000 $\chi^2/\text{NDF}: 4763.8/56$

In: -393.702 ± 66.847 $\chi^2/\text{NDF}: 2057.0/48$

Out: 1145.597 ± 63.374 $\chi^2/\text{NDF}: 3388.9/55$

All: 416.981 ± 45.991 $\chi^2/\text{NDF}: 5725.2/104$

asym_bpm0r05WS_rms vs Slug, Sign Corrected



Right In: 339.718 $\pm$ 0.069 χ^2 /NDF: 1228908.2/25

Left Out: 370.580 $\pm$ 0.063 χ^2 /NDF: 1878118.9/24

Right Out: 340.803 $\pm$ 0.064 χ^2 /NDF: 1183650.4/30

Left In: 373.161 $\pm$ 0.065 χ^2 /NDF: 1636244.2/22

Left: 371.824 $\pm$ 0.045 χ^2 /NDF: 3515172.3/47

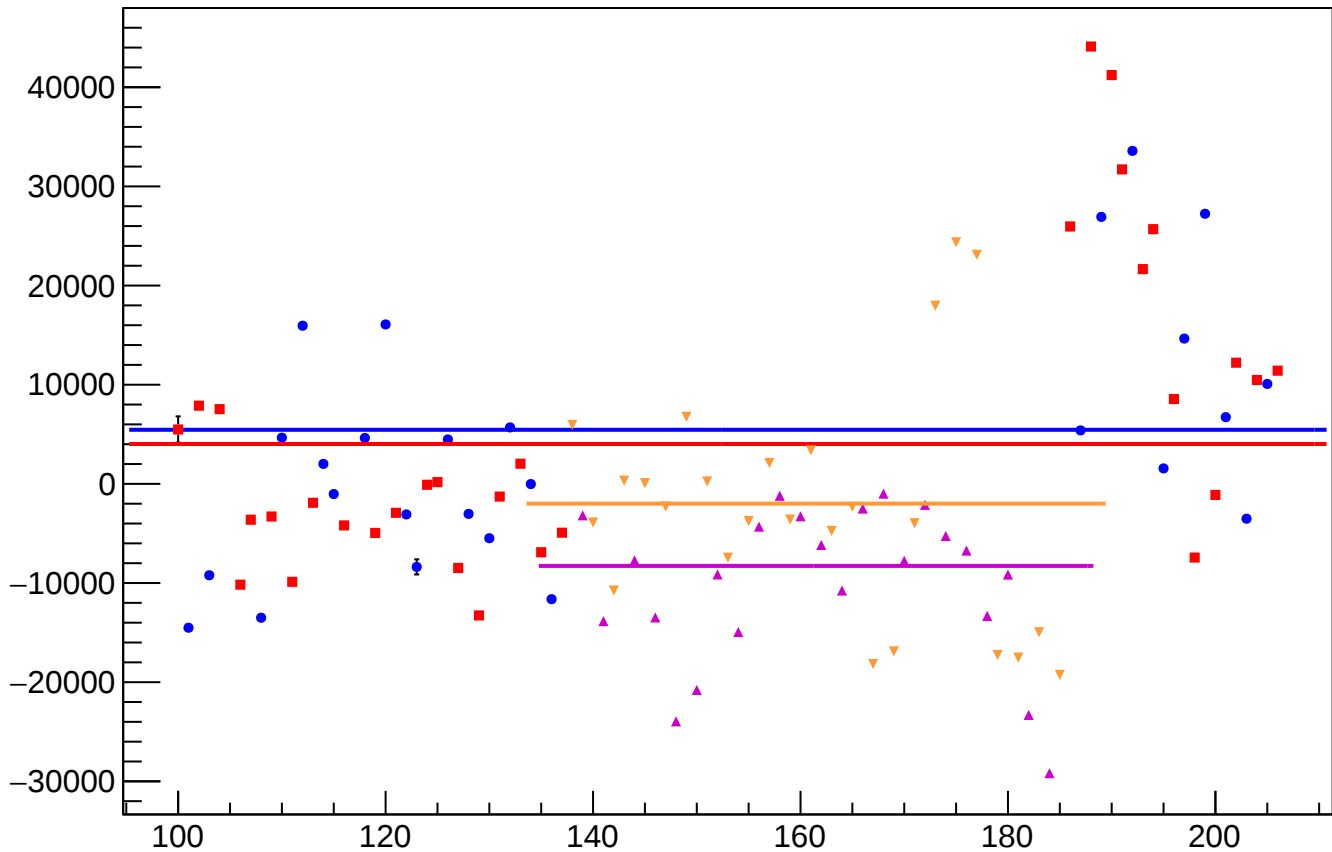
Right: 340.300 $\pm$ 0.047 χ^2 /NDF: 2412693.2/56

In: 357.247 $\pm$ 0.047 χ^2 /NDF: 2990005.7/48

Out: 355.861 $\pm$ 0.045 χ^2 /NDF: 3172136.9/55

All: 356.517 $\pm$ 0.033 χ^2 /NDF: 6162596.0/104

asym_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 5454.827+/-43.477 χ^2/NDF : 86952.7/25

Left Out: -1991.788+/-42.427 χ^2/NDF : 63766.6/24

Right Out: 4023.041+/-40.528 χ^2/NDF : 134262.5/30

Left In: -8273.228+/-44.301 χ^2/NDF : 22870.2/22

Left: -4996.810+/-30.641 χ^2/NDF : 97123.2/47

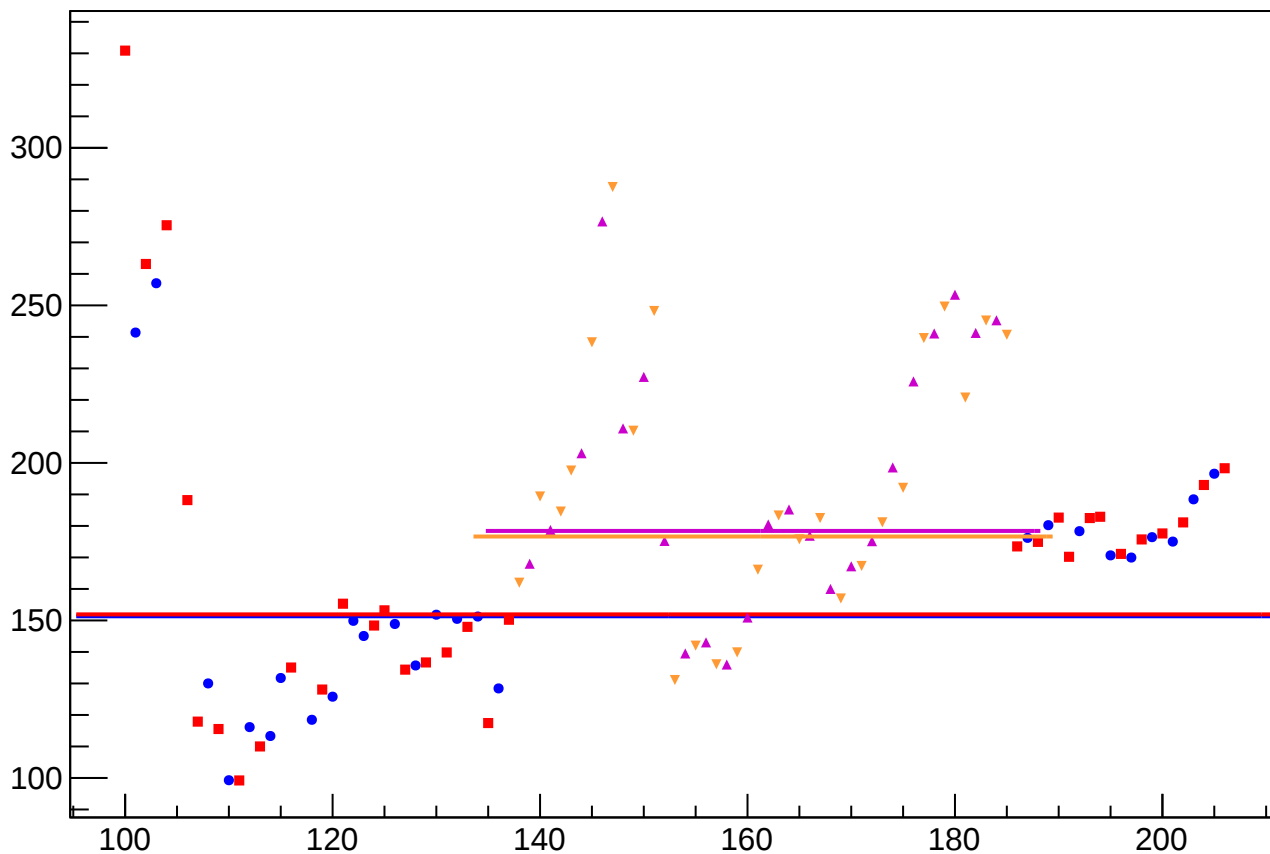
Right: 4688.725+/-29.645 χ^2/NDF : 221795.5/56

In: -1280.336+/-31.030 χ^2/NDF : 158737.1/48

Out: 1153.250+/-29.306 χ^2/NDF : 208538.3/55

All: 5.954+/-21.306 χ^2/NDF : 370526.4/104

asym_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 151.325+/-0.031 χ^2/NDF : 1152437.6/25

Left Out: 176.641+/-0.030 χ^2/NDF :1551048.8/24

Right Out: 151.924+/-0.029 χ^2/NDF : 1530358.7/30

Left In: 178.413+/-0.031 χ^2/NDF :1293736.2/22

Left: 177.489+/-0.022 χ^2/NDF : 2846455.0/47

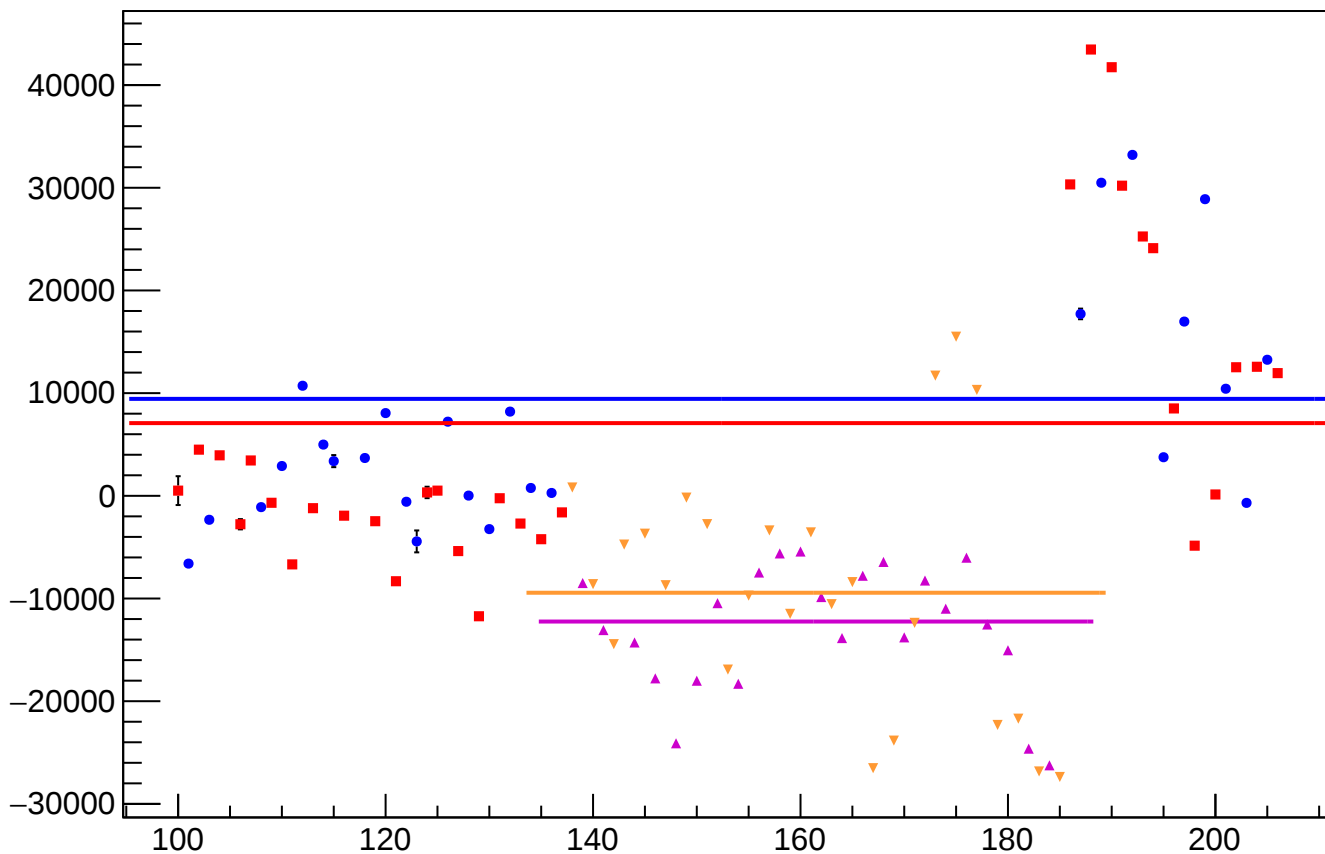
Right: 151.646+/-0.021 χ^2/NDF : 2682999.7/56

In: 164.615+/-0.022 χ^2/NDF :2827072.2/48

Out: 163.717+/-0.021 χ^2/NDF :3436318.3/55

All: 164.140+/-0.015 χ^2/NDF : 6264275.4/104

asym_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 9442.233+/-49.643

χ^2/NDF : 48757.1/25

Left: -10889.638+/-31.621

χ^2/NDF : 80800.7/47

Left Out: -9437.408+/-45.534

χ^2/NDF : 62220.4/24

Right: 8164.534+/-33.627

χ^2/NDF : 153594.3/56

Right Out: 7081.240+/-45.710

χ^2/NDF : 103613.1/30

In: -2715.464+/-32.904

χ^2/NDF : 172348.8/48

Out: -1209.972+/-32.260

χ^2/NDF : 231381.8/55

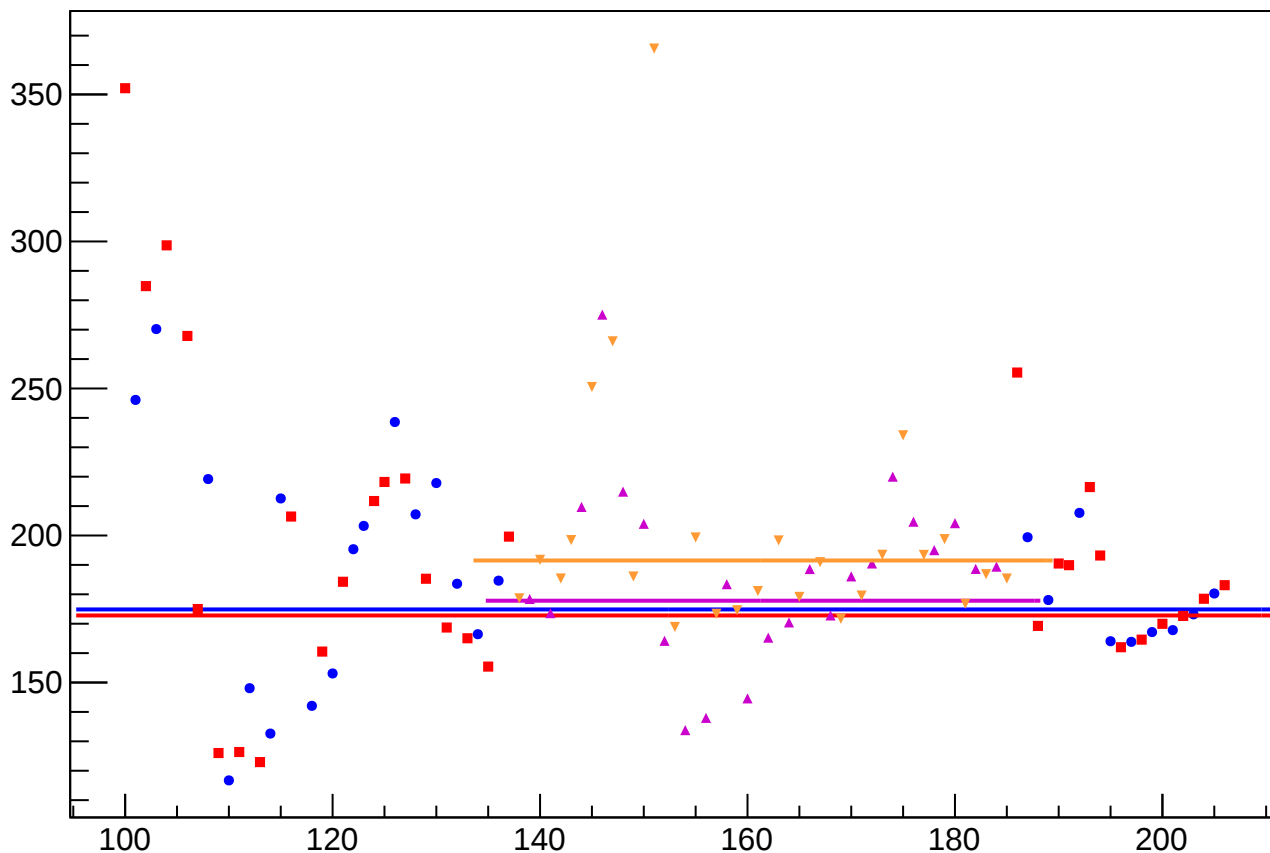
Left In: -12242.226+/-43.944

χ^2/NDF : 16615.8/22

All: -1947.824+/-23.036

χ^2/NDF : 404798.0/1

asym_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 174.854 ± 0.035 $\chi^2/\text{NDF}: 759679.9/25$

Left Out: 191.507 ± 0.032 $\chi^2/\text{NDF}: 727251.6/24$

Right Out: 172.808 ± 0.032 $\chi^2/\text{NDF}: 1131650.6/30$

Left In: 177.821 ± 0.031 $\chi^2/\text{NDF}: 862494.4/22$

Left: 184.421 ± 0.022 $\chi^2/\text{NDF}: 1683284.8/47$

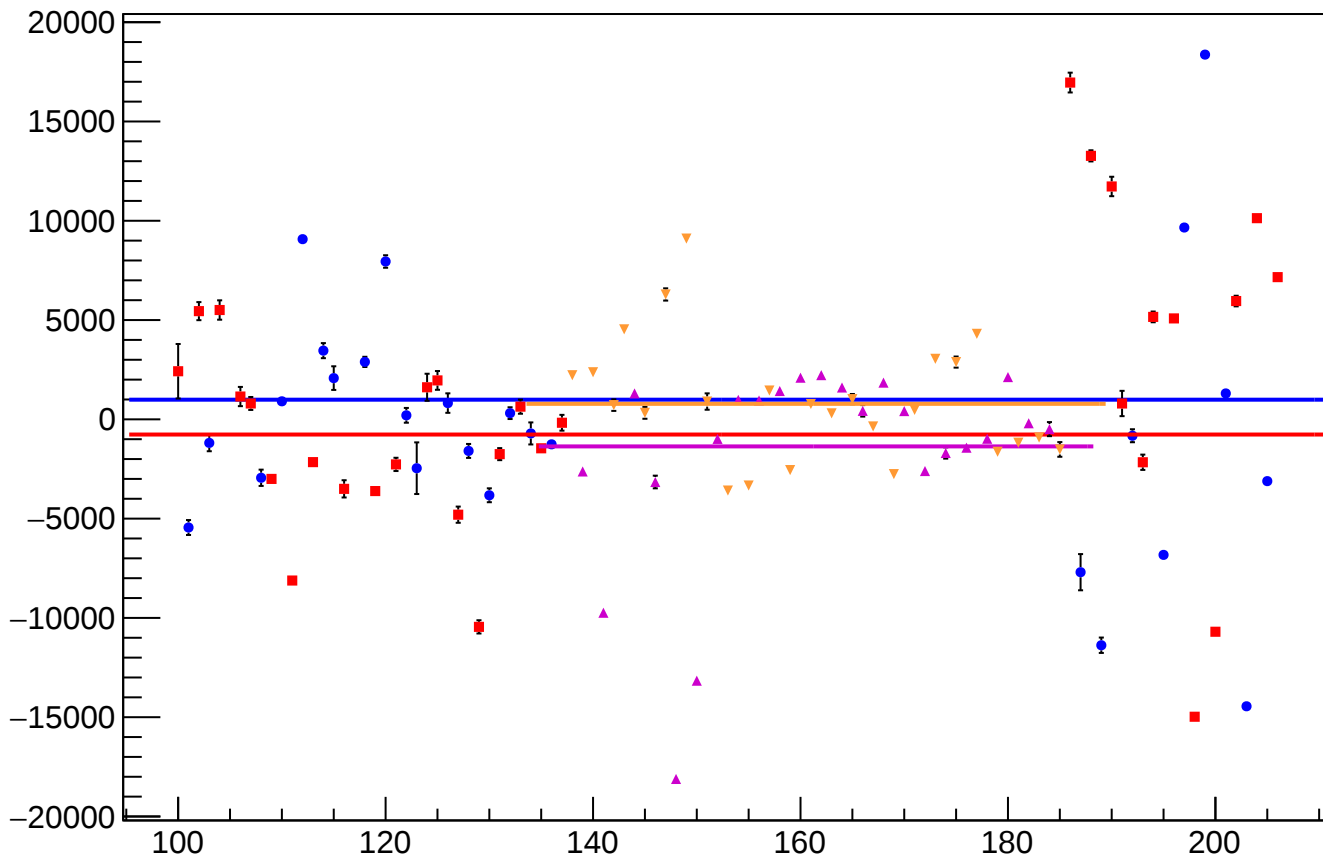
Right: 173.747 ± 0.024 $\chi^2/\text{NDF}: 1893169.9/56$

In: 176.518 ± 0.023 $\chi^2/\text{NDF}: 1626180.2/48$

Out: 182.193 ± 0.023 $\chi^2/\text{NDF}: 2026891.0/55$

All: 179.412 ± 0.016 $\chi^2/\text{NDF}: 3683410.4/104$

asym_bpm0i05WS_mean vs Slug, Sign Corrected



Right In: 989.600+/-55.798 χ^2/NDF : 19979.6/25

Left Out: 779.983+/-47.457 χ^2/NDF : 4260.8/24

Right Out: -765.096+/-51.727 χ^2/NDF : 20346.1/30

Left In: -1363.043+/-45.807 χ^2/NDF : 11632.9/22

Left: -329.448+/-32.958 χ^2/NDF : 16949.3/47

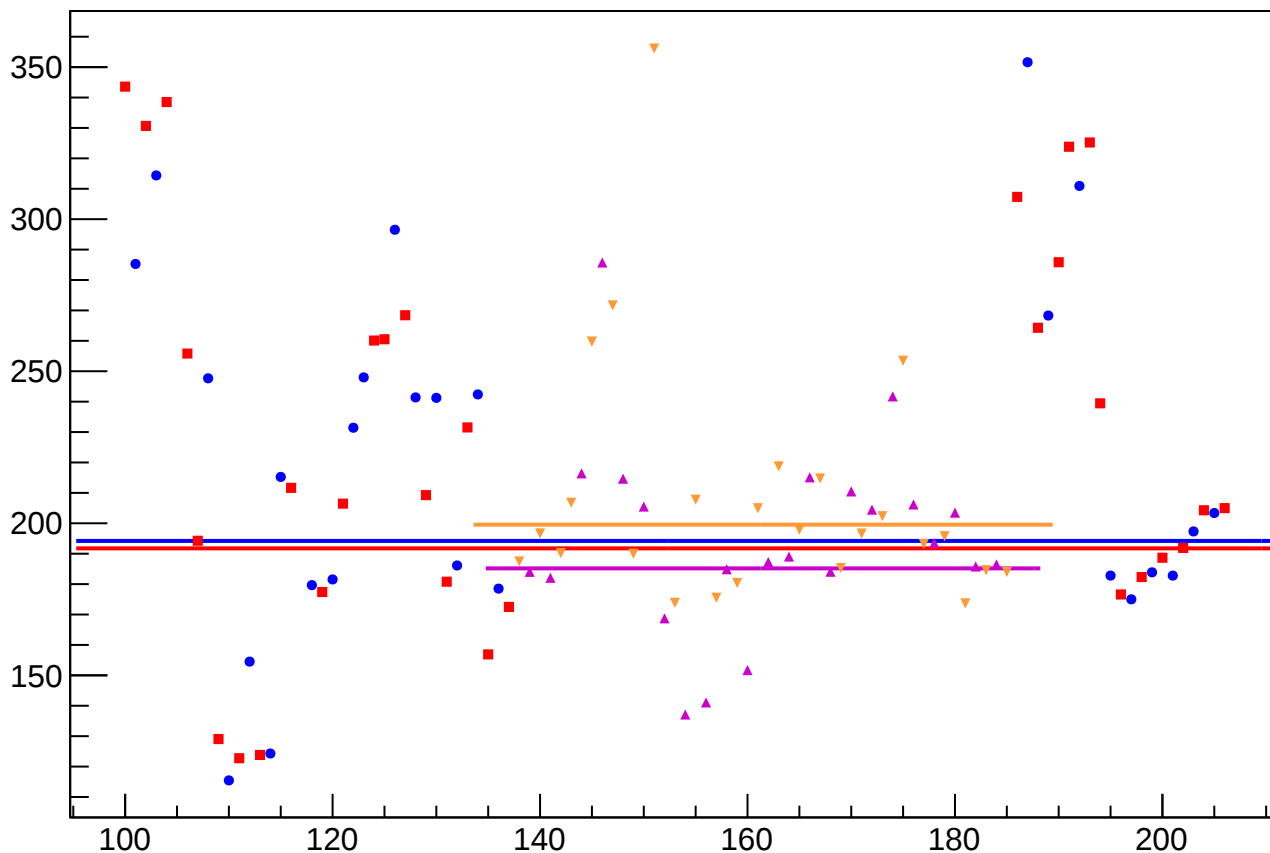
Right: 45.925+/-37.934 χ^2/NDF : 40857.5/56

In: -415.848+/-35.404 χ^2/NDF : 32674.5/48

Out: 73.839+/-34.970 χ^2/NDF : 25091.3/55

All: -167.980+/-24.880 χ^2/NDF : 57862.6/104

asym_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 194.203 ± 0.039 $\chi^2/\text{NDF}: 1410264.3/25$

Left Out: 199.547 ± 0.034 $\chi^2/\text{NDF}: 729356.3/24$

Right Out: 191.752 ± 0.037 $\chi^2/\text{NDF}: 2142233.6/30$

Left In: 185.171 ± 0.032 $\chi^2/\text{NDF}: 882752.2/22$

Left: 192.104 ± 0.023 $\chi^2/\text{NDF}: 1707122.0/47$

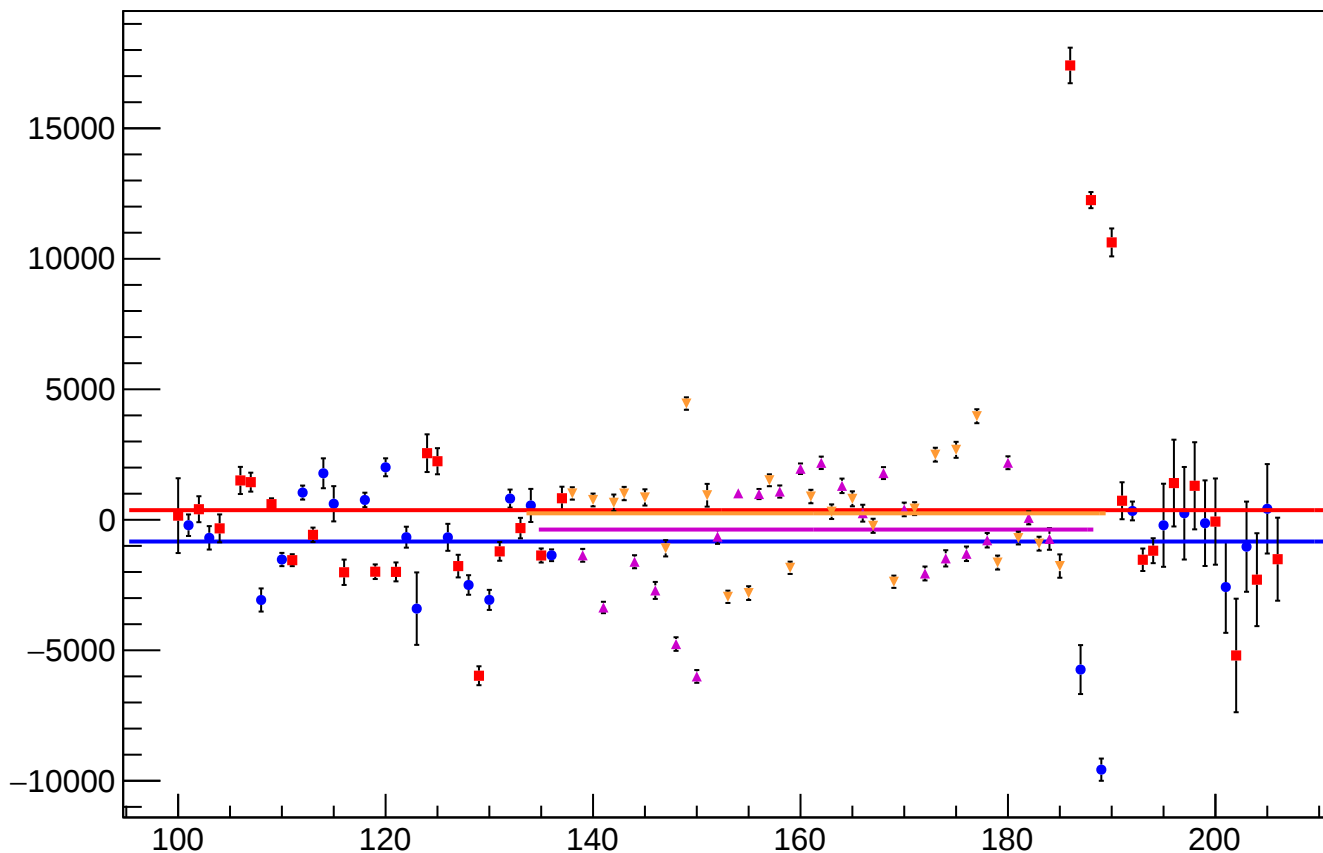
Right: 192.885 ± 0.027 $\chi^2/\text{NDF}: 3554573.2/56$

In: 188.807 ± 0.025 $\chi^2/\text{NDF}: 2324327.3/48$

Out: 195.985 ± 0.025 $\chi^2/\text{NDF}: 2896246.5/55$

All: 192.440 ± 0.018 $\chi^2/\text{NDF}: 5262178.2/104$

asym_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -832.364 ± 83.541 $\chi^2/\text{NDF}: 761.7/25$

Left Out: 247.844 ± 53.555 $\chi^2/\text{NDF}: 1355.1/24$

Right Out: 368.996 ± 74.990 $\chi^2/\text{NDF}: 3172.8/30$

Left In: -374.122 ± 52.049 $\chi^2/\text{NDF}: 1801.0/22$

Left: -72.006 ± 37.325 $\chi^2/\text{NDF}: 3225.5/47$

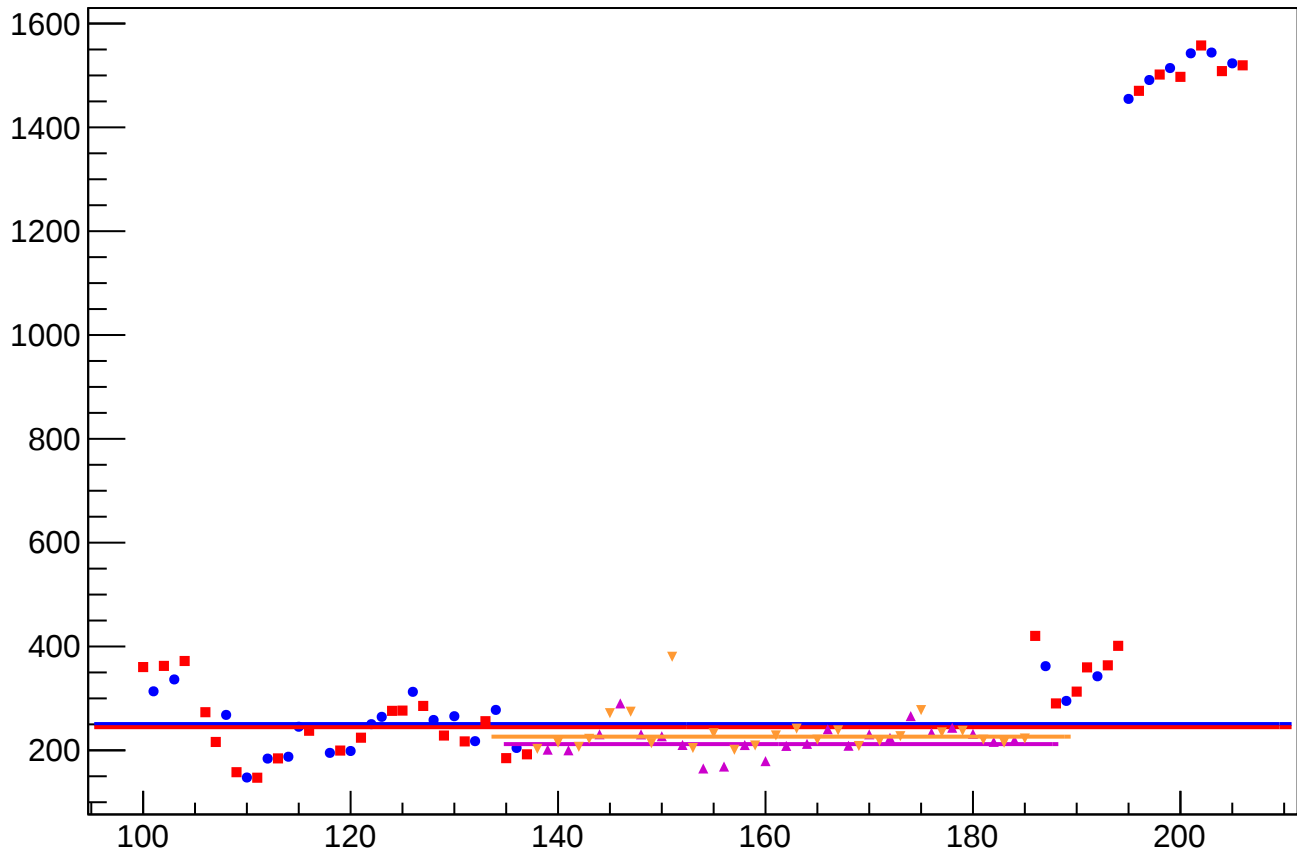
Right: -167.067 ± 55.805 $\chi^2/\text{NDF}: 4049.0/56$

In: -502.259 ± 44.176 $\chi^2/\text{NDF}: 2584.4/48$

Out: 288.764 ± 43.582 $\chi^2/\text{NDF}: 4529.6/55$

All: -101.388 ± 31.025 $\chi^2/\text{NDF}: 7276.5/104$

asym_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 250.568+/-0.059 χ^2/NDF : 7663074.2/25

Left Out: 226.322+/-0.038 χ^2/NDF : 521041.8/24

Right Out: 244.547+/-0.053 χ^2/NDF : 8269831.4/30

Left In: 211.970+/-0.037 χ^2/NDF : 584344.5/22

Left: 218.941+/-0.026 χ^2/NDF : 1179246.7/47

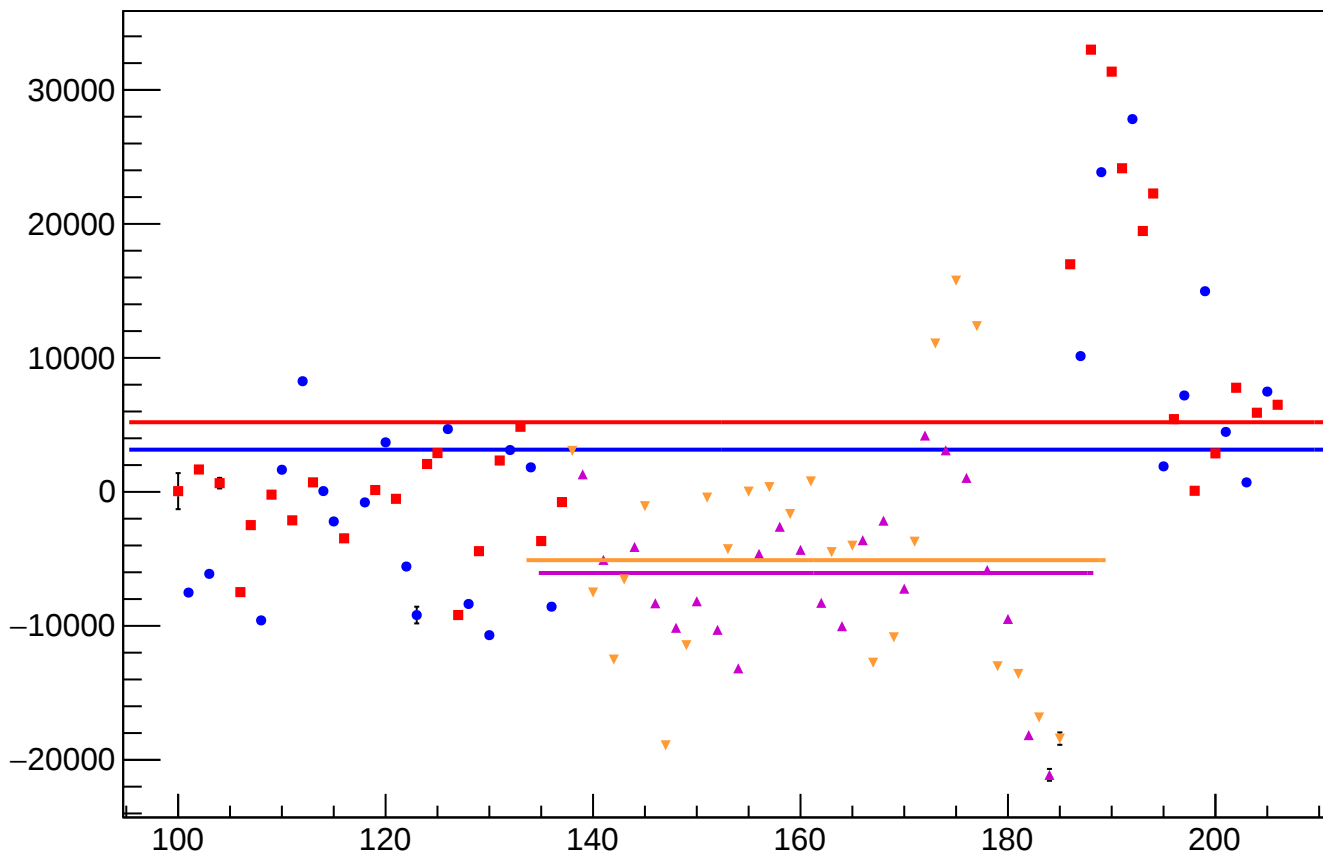
Right: 247.234+/-0.039 χ^2/NDF : 15938659.8/56

In: 222.763+/-0.031 χ^2/NDF : 8554969.0/48

Out: 232.477+/-0.031 χ^2/NDF : 8869103.4/55

All: 227.686+/-0.022 χ^2/NDF : 17473081.4/10

asym_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: 3151.589+/-36.951 χ^2/NDF : 73941.5/25

Left Out: -5095.305+/-33.703 χ^2/NDF : 54395.4/24

Right Out: 5198.497+/-34.151 χ^2/NDF : 101070.7/30

Left In: -6053.569+/-34.998 χ^2/NDF : 17590.3/22

Left: -5556.386+/-24.277 χ^2/NDF : 72374.6/47

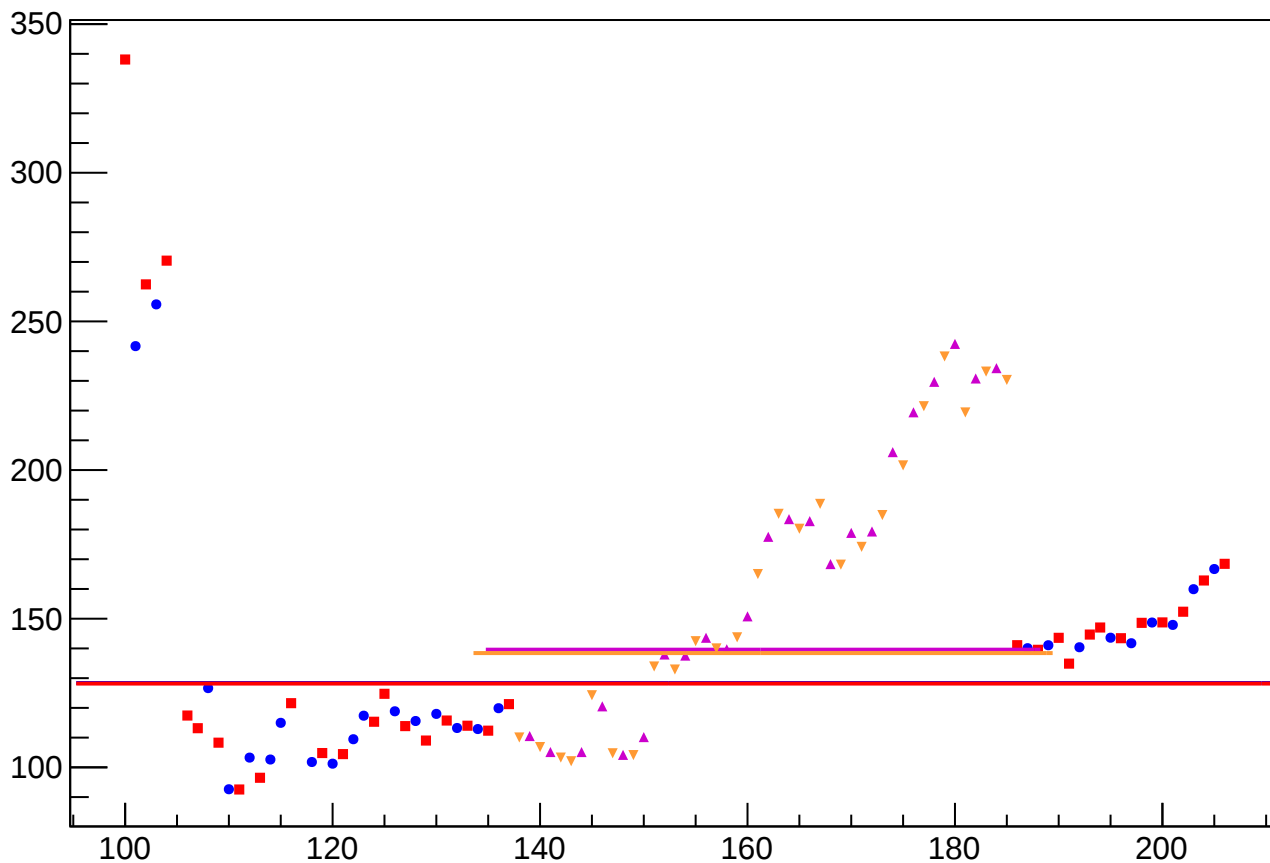
Right: 4255.514+/-25.080 χ^2/NDF : 176667.2/56

In: -1700.662+/-25.410 χ^2/NDF : 124245.0/48

Out: -16.349+/-23.989 χ^2/NDF : 201491.9/55

All: -810.095+/-17.443 χ^2/NDF : 328060.1/10

asym_bpm1i02WS_rms vs Slug, Sign Corrected



Right In: 128.365+/-0.026 χ^2/NDF : 1145307.4/25

Left Out: 138.436+/-0.024 χ^2/NDF : 2549435.8/24

Right Out: 128.185+/-0.024 χ^2/NDF : 1360974.7/30

Left In: 139.578+/-0.025 χ^2/NDF : 2413658.9/22

Left: 138.985+/-0.017 χ^2/NDF : 4964199.7/47

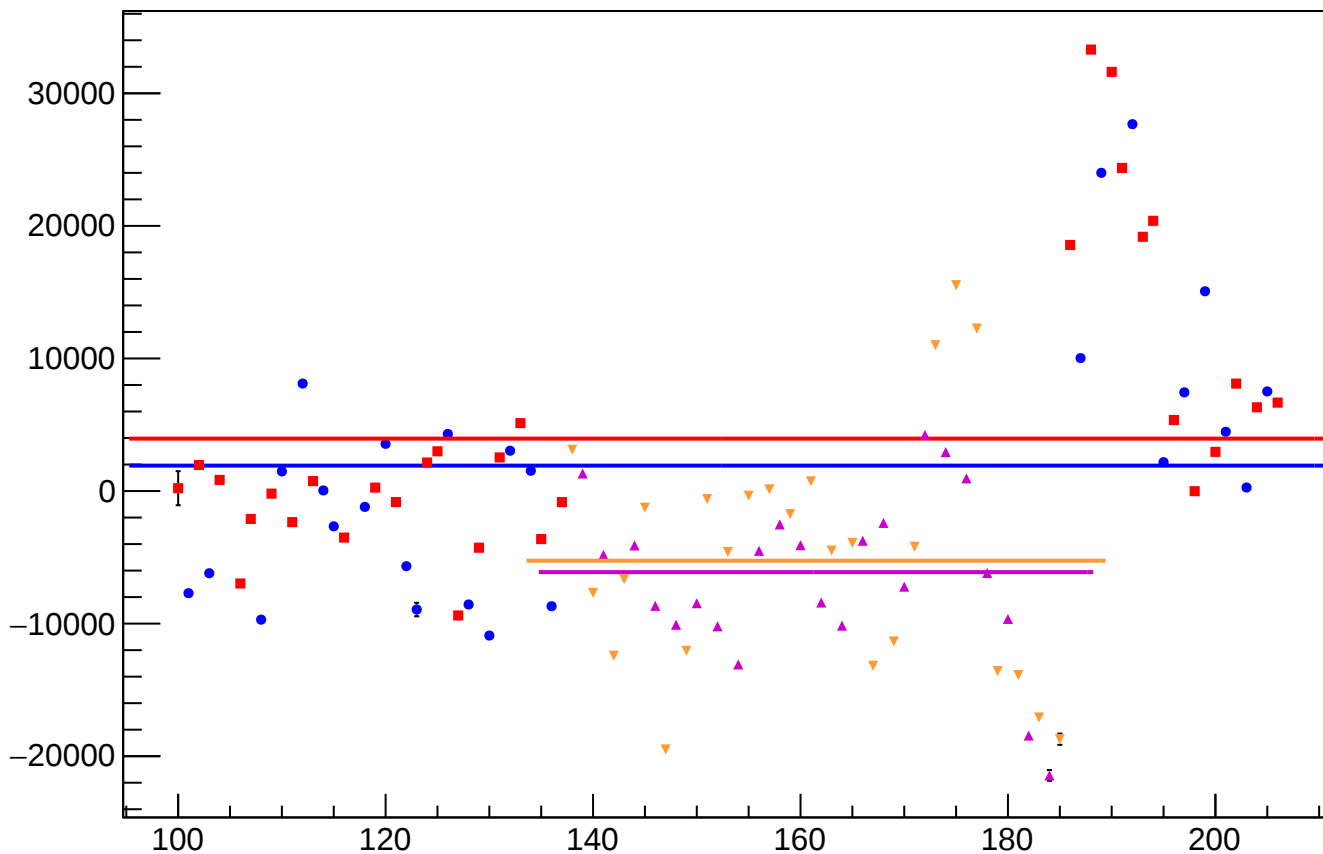
Right: 128.268+/-0.018 χ^2/NDF : 2506307.6/56

In: 134.275+/-0.018 χ^2/NDF : 3656045.5/48

Out: 133.378+/-0.017 χ^2/NDF : 4001689.7/55

All: 133.801+/-0.012 χ^2/NDF : 7659054.0/104

asym_bpm1i04WS_mean vs Slug, Sign Corrected



Right In: 1917.272 $\pm$ 32.938 χ^2/NDF : 81461.3/25

Left Out: -5255.652 $\pm$ 30.622 χ^2/NDF :64324.6/24

Right Out: 3954.318 $\pm$ 30.647 χ^2/NDF : 108585.0/30

Left In: -6114.901 $\pm$ 32.126 χ^2/NDF :21260.9/22

Left: -5664.697 $\pm$ 22.166 χ^2/NDF : 85960.3/47

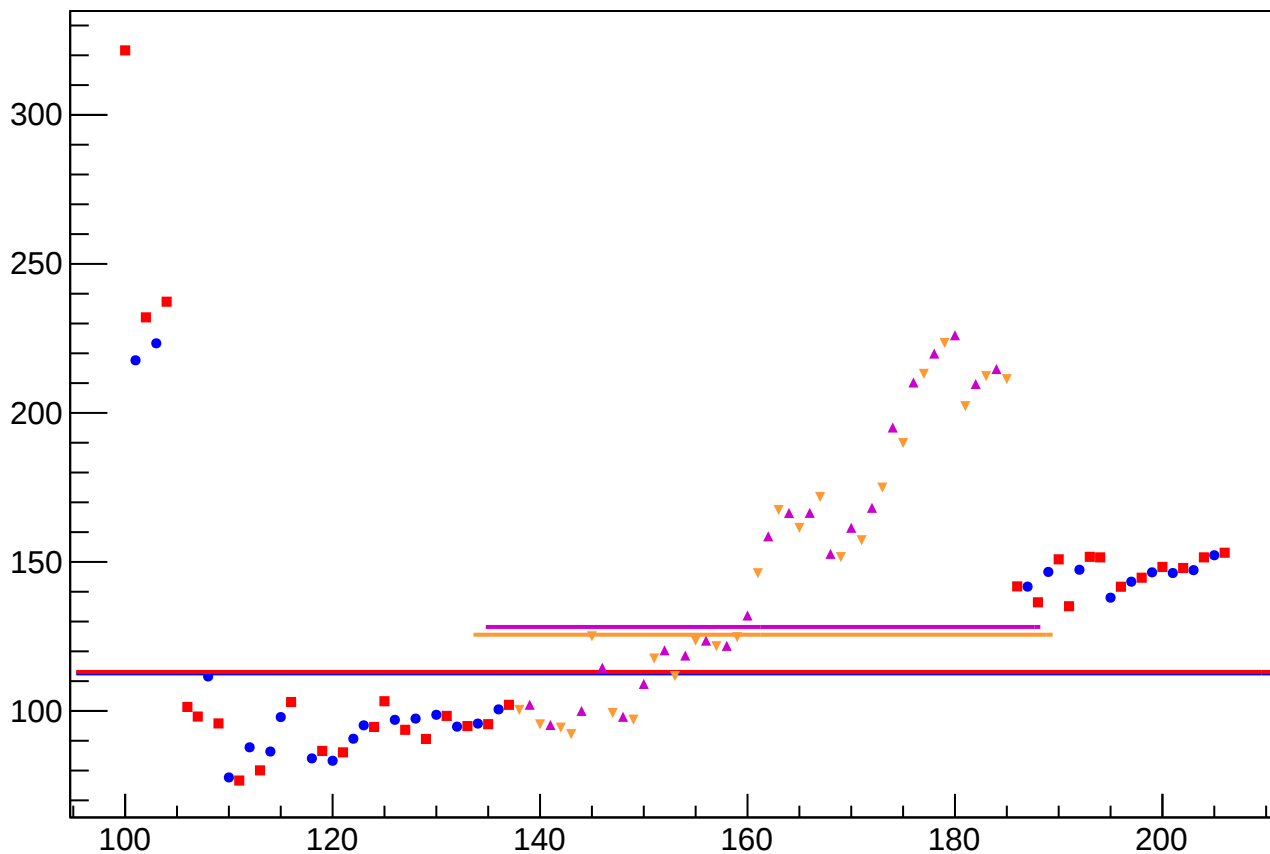
Right: 3009.094 $\pm$ 22.437 χ^2/NDF : 192096.3/56

In: -2199.032 $\pm$ 22.998 χ^2/NDF :133198.2/48

Out: -654.373 $\pm$ 21.662 χ^2/NDF :218102.6/55

All: -1380.528 $\pm$ 15.768 χ^2/NDF : 353691.2/100

asym_bpm1i04WS_rms vs Slug, Sign Corrected



Right In: 112.600 $\pm$ 0.023 χ^2 /NDF: 1782562.9/25

Left Out: 125.577 $\pm$ 0.022 χ^2 /NDF:2595752.6/24

Right Out: 113.086 $\pm$ 0.022 χ^2 /NDF: 2156137.7/30

Left In: 128.184 $\pm$ 0.023 χ^2 /NDF:2332977.5/22

Left: 126.818 $\pm$ 0.016 χ^2 /NDF: 4935627.6/47

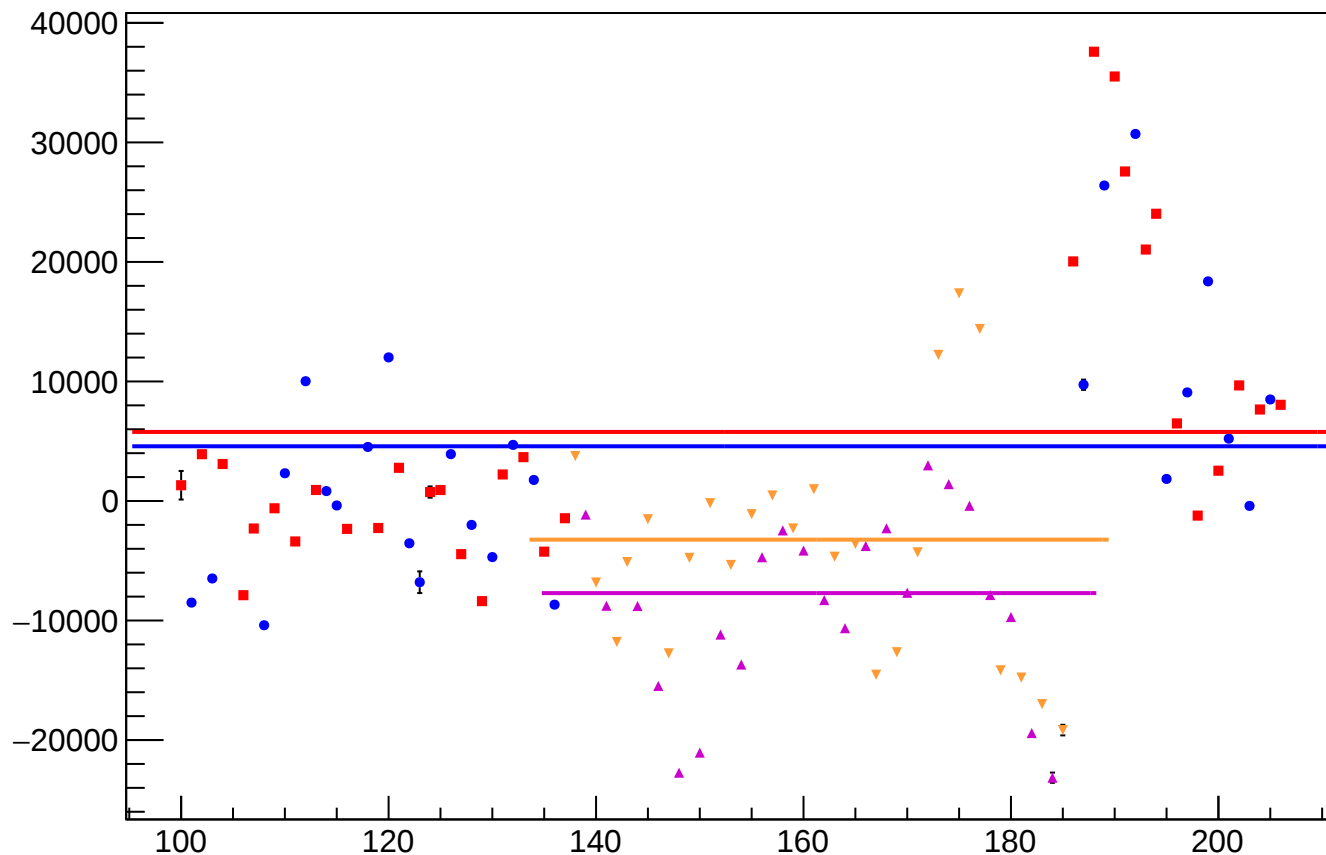
Right: 112.861 $\pm$ 0.016 χ^2 /NDF: 3938934.0/56

In: 120.586 $\pm$ 0.016 χ^2 /NDF:4344965.8/48

Out: 119.337 $\pm$ 0.015 χ^2 /NDF:4918146.4/55

All: 119.924 $\pm$ 0.011 χ^2 /NDF: 9266241.2/104

asym_bpm1i06WS_mean vs Slug, Sign Corrected



Right In: 4577.215+/-43.722 χ^2/NDF : 58671.3/25

Left Out: -3234.922+/-40.583 χ^2/NDF : 36739.9/24

Right Out: 5778.378+/-40.523 χ^2/NDF : 90553.8/30

Left In: -7707.068+/-42.990 χ^2/NDF : 21268.3/22

Left: -5342.284+/-29.511 χ^2/NDF : 63730.6/47

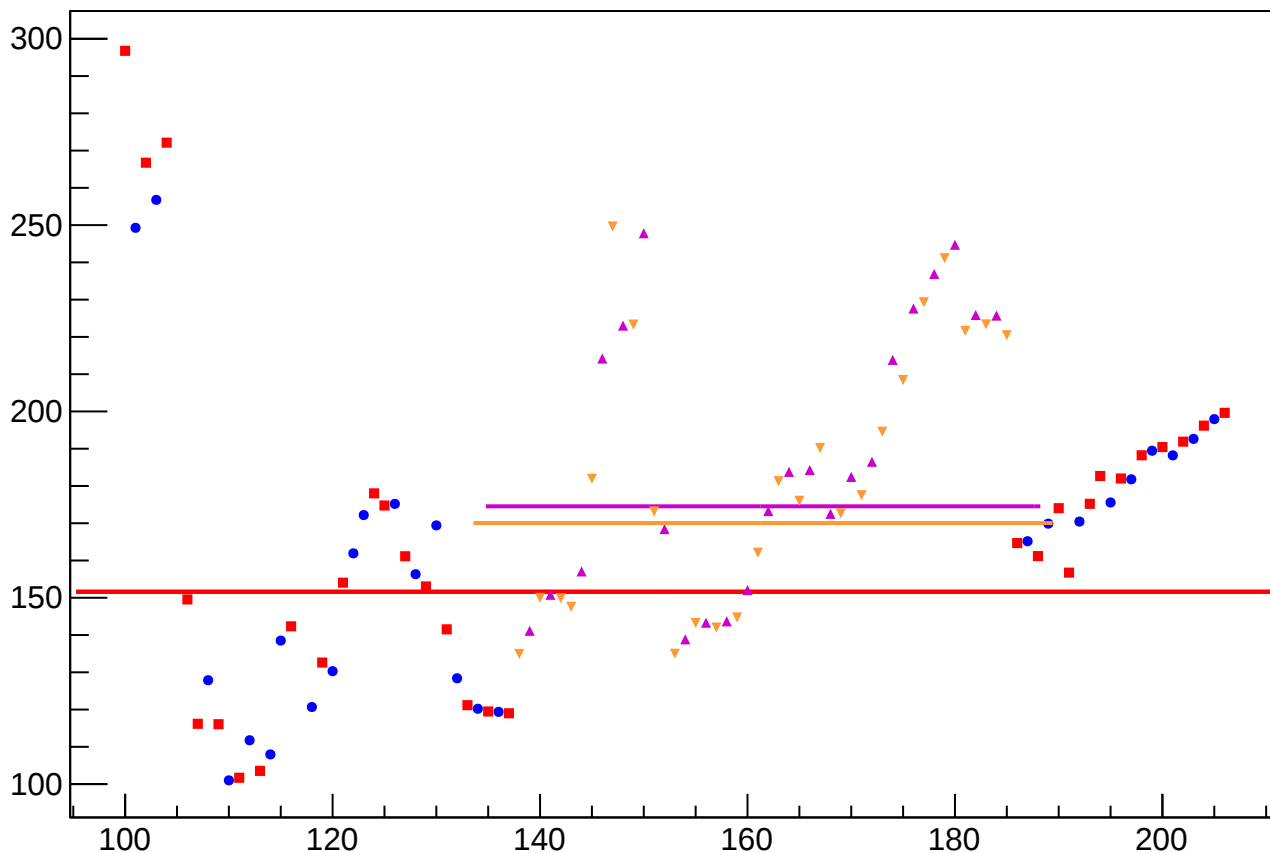
Right: 5223.334+/-29.721 χ^2/NDF : 149631.1/56

In: -1668.576+/-30.654 χ^2/NDF : 120076.7/48

Out: 1278.336+/-28.675 χ^2/NDF : 151993.5/55

All: -96.949+/-20.941 χ^2/NDF : 276999.0/104

asym_bpm1i06WS_rms vs Slug, Sign Corrected



Right In: 151.616 $\pm$ 0.031 χ^2 /NDF: 1380212.5/25

Left Out: 170.050 $\pm$ 0.029 χ^2 /NDF:1240866.9/24

Right Out: 151.623 $\pm$ 0.029 χ^2 /NDF: 1639459.5/30

Left In: 174.539 $\pm$ 0.030 χ^2 /NDF:1210071.2/22

Left: 172.165 $\pm$ 0.021 χ^2 /NDF: 2462472.2/47

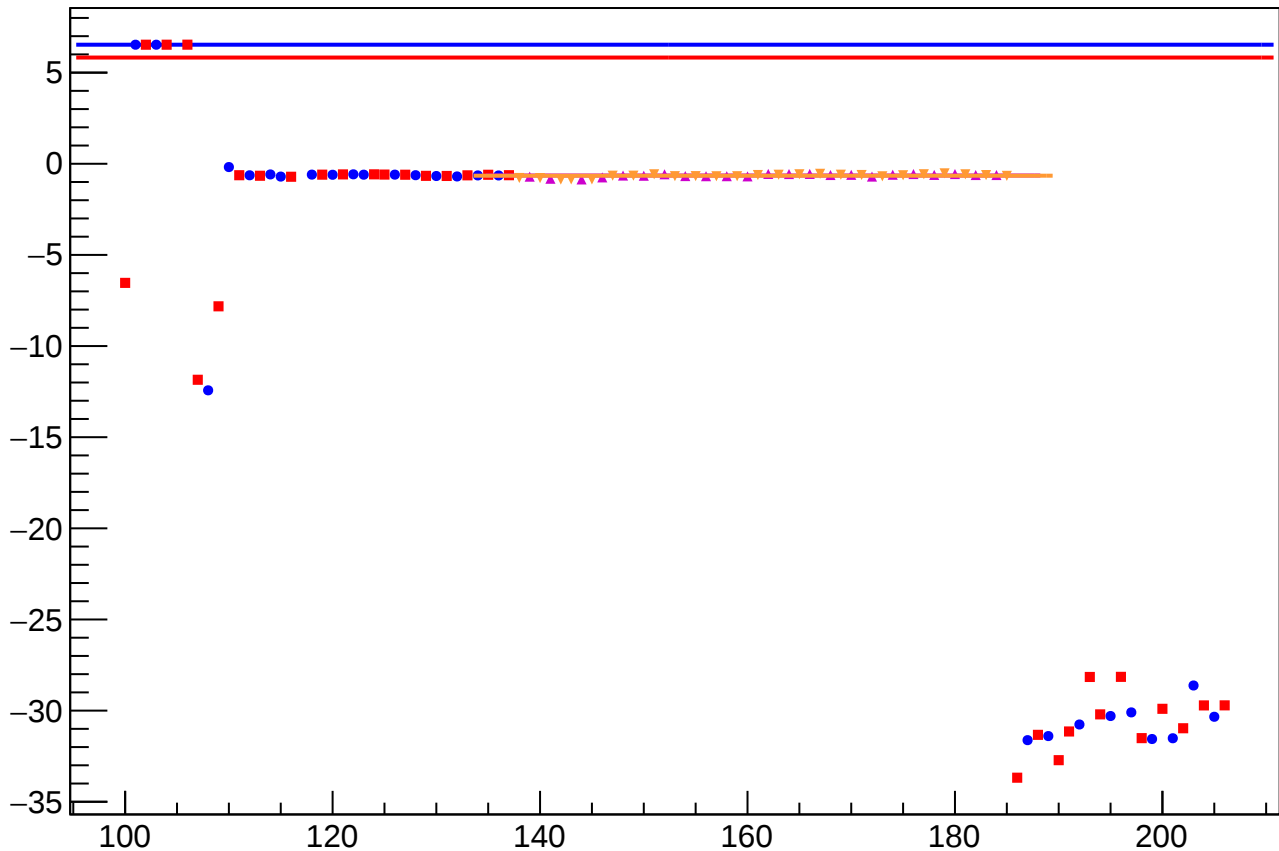
Right: 151.620 $\pm$ 0.021 χ^2 /NDF: 3019672.0/56

In: 163.271 $\pm$ 0.022 χ^2 /NDF:2869806.8/48

Out: 160.823 $\pm$ 0.020 χ^2 /NDF:3086793.5/55

All: 161.965 $\pm$ 0.015 χ^2 /NDF: 5963404.7/104

yield_cav4bX_mean vs Slug, Sign Corrected



Right In: 6.532+/-0.000 χ^2/NDF : 128000506712.8/25

Left Out: -0.654+/-0.000 χ^2/NDF : 179109810.4/24

Right Out: 5.827+/-0.000 χ^2/NDF : 755947893243945.9/30

Left In: -0.644+/-0.000 χ^2/NDF : 122913584.0/22

Left: -0.649+/-0.000 χ^2/NDF : 302910331.9/47

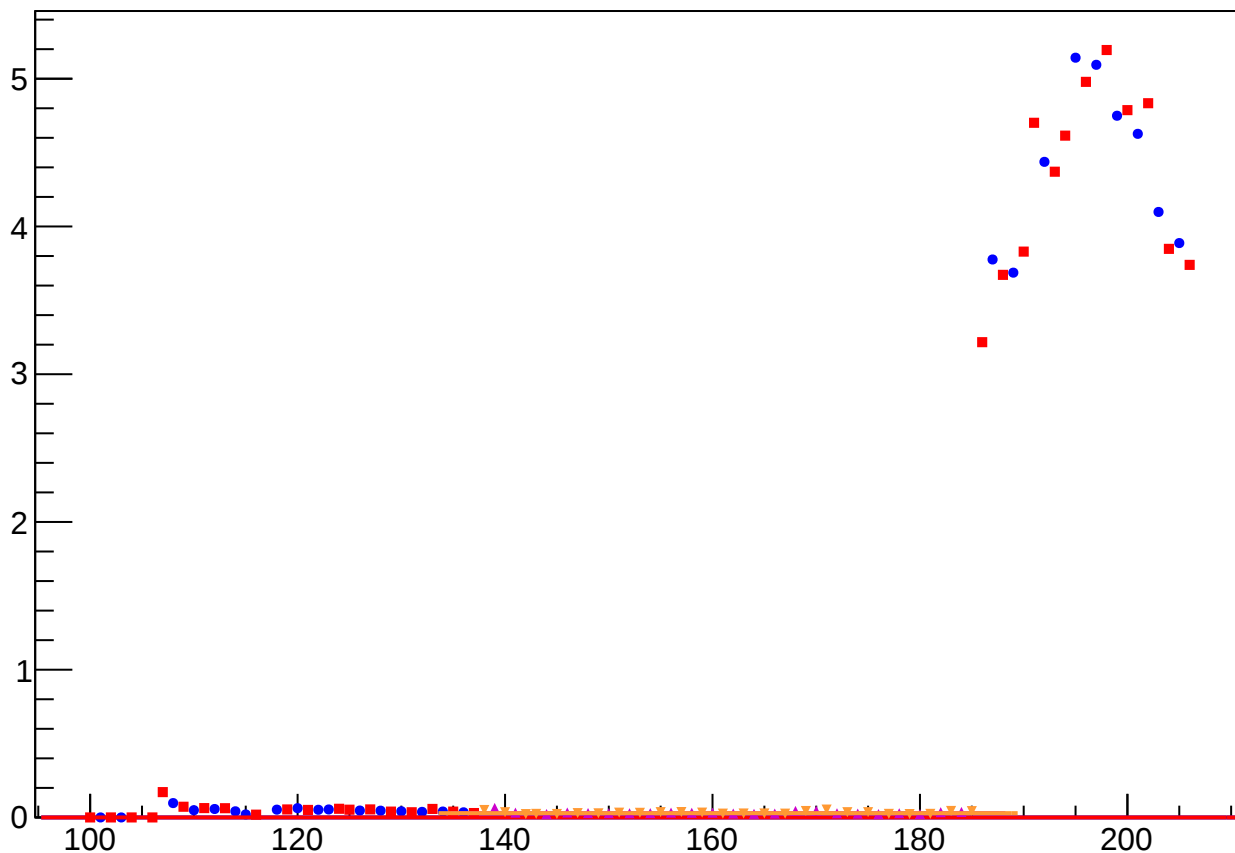
Right: 6.155+/-0.000 χ^2/NDF : 776079062722850.9/47

In: 6.530+/-0.000 χ^2/NDF : 953347888794.6/48

Out: 5.826+/-0.000 χ^2/NDF : 756656921882324.6/50

All: 6.153+/-0.000 χ^2/NDF : 77760243246039.9/94

yield_cav4bX_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 21297117.7/25

Left Out: 0.029+/-0.000 χ^2/NDF :1487017.7/24

Right Out: 0.000+/-0.000 χ^2/NDF : 24929397.8/30

Left In: 0.029+/-0.000 χ^2/NDF :1164030.9/22

Left: 0.029+/-0.000 χ^2/NDF : 2651180.7/47

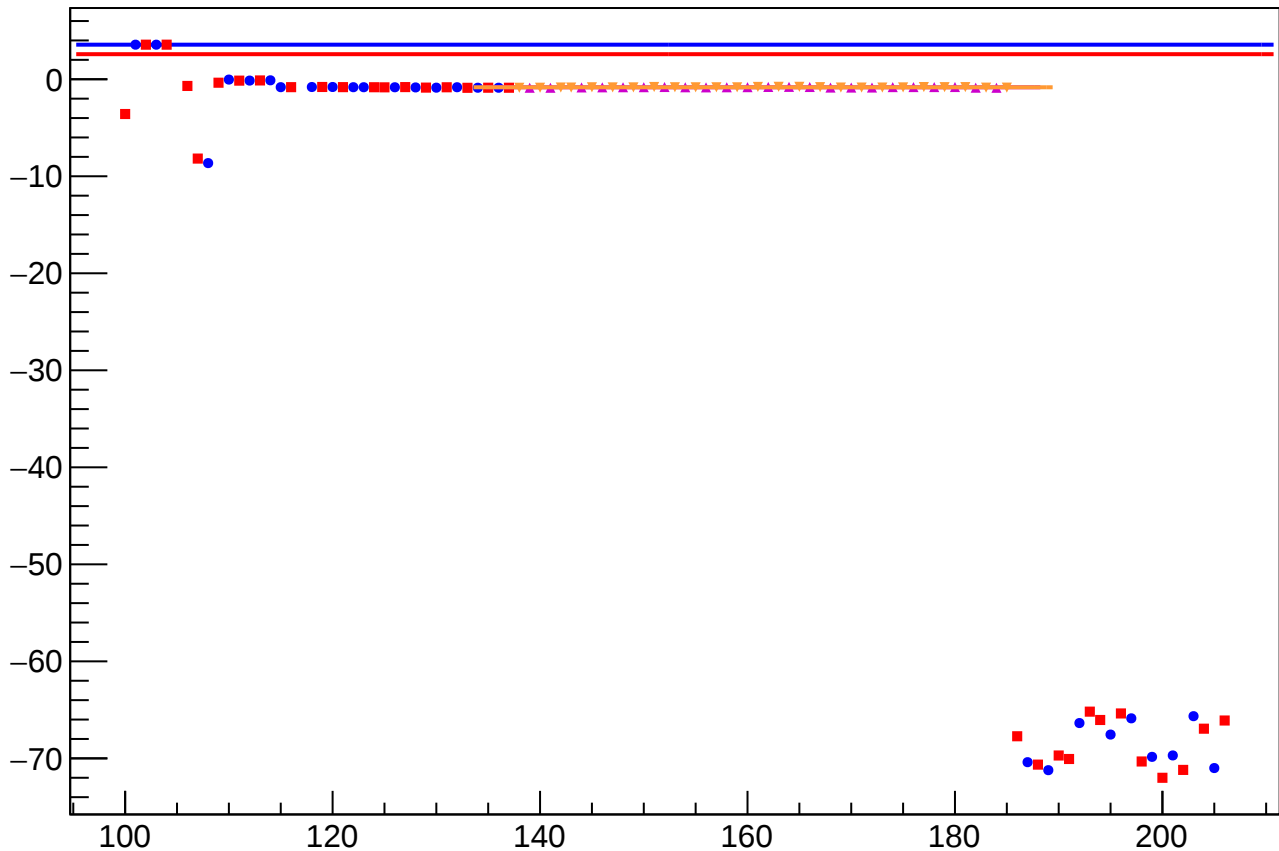
Right: 0.000+/-0.000 χ^2/NDF : 46226765.0/56

In: 0.000+/-0.000 χ^2/NDF :49258789.5/48

Out: 0.000+/-0.000 χ^2/NDF :54805058.9/55

All: 0.000+/-0.000 χ^2/NDF : 104064263.4/104

yield_cav4bY_mean vs Slug, Sign Corrected



Right In: 3.563+/-0.000 χ^2/NDF : 507792405557.0/25

Left Out: -0.828+/-0.000 χ^2/NDF : 168178464.8/24

Right Out: 2.583+/-0.000 χ^2/NDF : 1253533783353776.2/30

Left In: -0.827+/-0.000 χ^2/NDF : 172640246.1/22

Left: -0.827+/-0.000 χ^2/NDF : 340927693.4/47

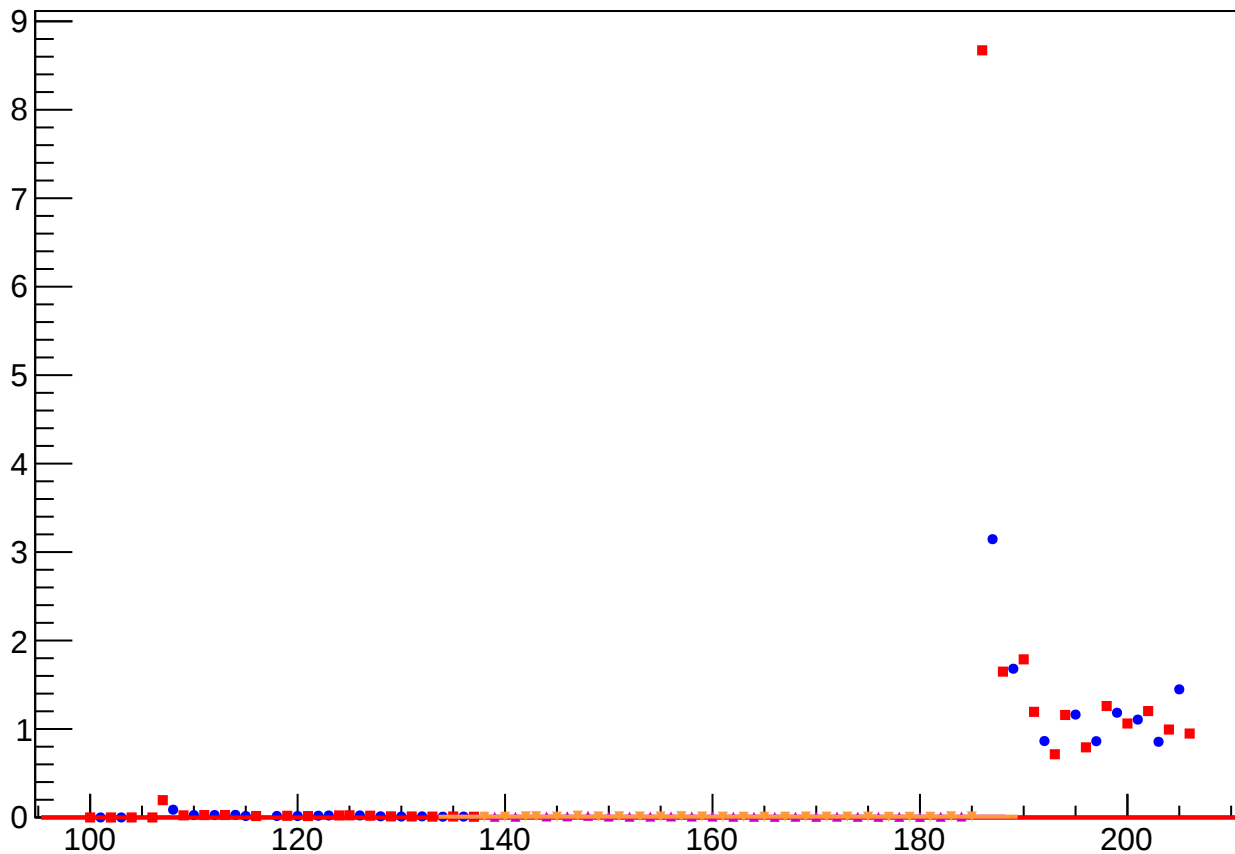
Right: 3.040+/-0.000 χ^2/NDF : 1382312811887585.5

In: 3.560+/-0.000 χ^2/NDF : 4153543707434.7/48

Out: 2.581+/-0.000 χ^2/NDF : 1255756114057365.5

All: 3.038+/-0.000 χ^2/NDF : 13879992834965.5

yield_cav4bY_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 19981808.6/25

Left Out: 0.009+/-0.000 χ^2/NDF :1454710.9/24

Right Out: 0.000+/-0.000 χ^2/NDF : 23066551.2/30

Left In: 0.009+/-0.000 χ^2/NDF :1041524.9/22

Left: 0.009+/-0.000 χ^2/NDF : 2502231.5/47

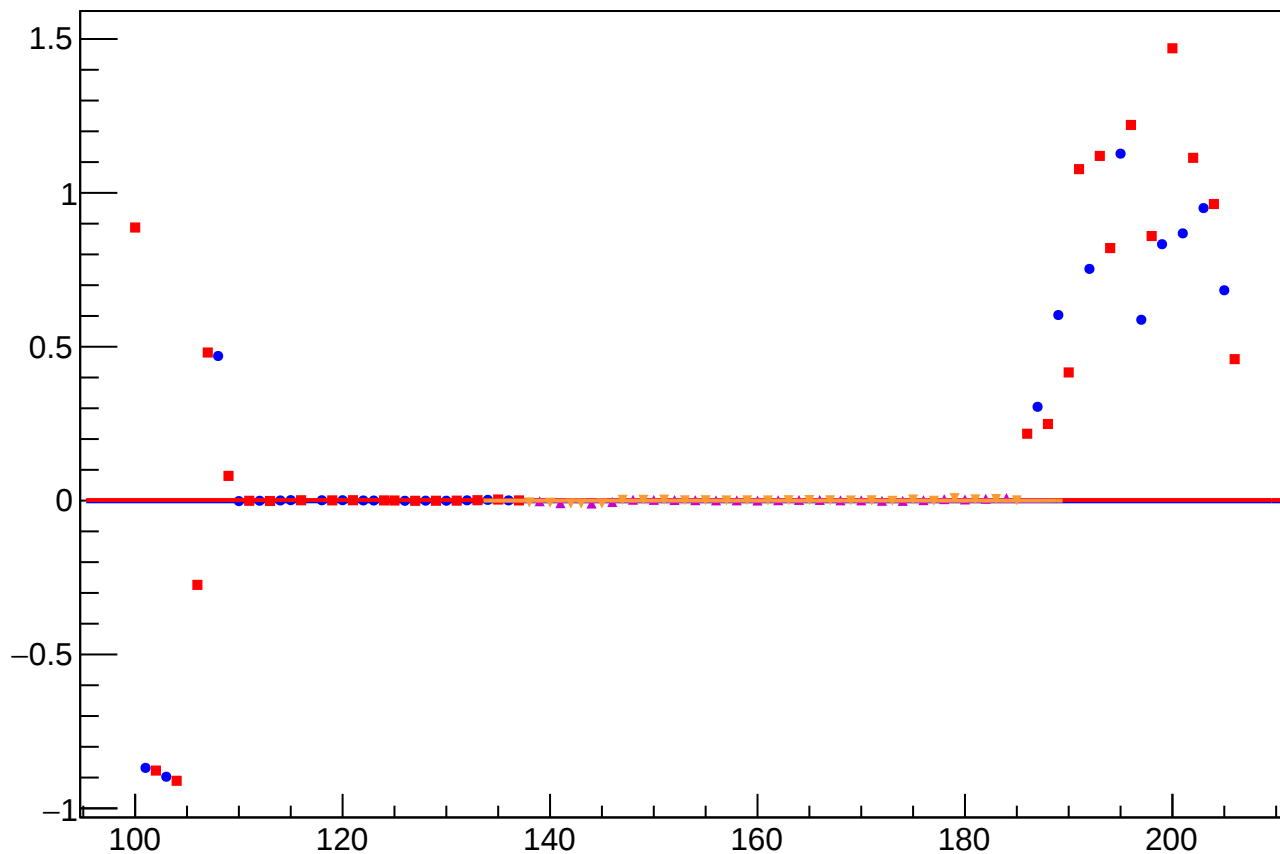
Right: 0.000+/-0.000 χ^2/NDF : 43048639.8/56

In: 0.000+/-0.000 χ^2/NDF :49517841.5/48

Out: 0.000+/-0.000 χ^2/NDF :54485126.6/55

All: 0.000+/-0.000 χ^2/NDF : 104003720.7/104

yield_cav4cX_mean vs Slug, Sign Corrected



Right In: -0.002+/-0.000

χ^2/NDF : 9796974199.4/25

Left Out: -0.000+/-0.000

χ^2/NDF : 151482851.1/24

Right Out: 0.002+/-0.000

χ^2/NDF : 3043679398.6/30

Left In: 0.001+/-0.000

χ^2/NDF : 101439617.3/22

Left: 0.000+/-0.000

χ^2/NDF : 254436385.6/47

Right: -0.000+/-0.000

χ^2/NDF : 12854423850.4/56

In: -0.000+/-0.000

χ^2/NDF : 9909425336.2/48

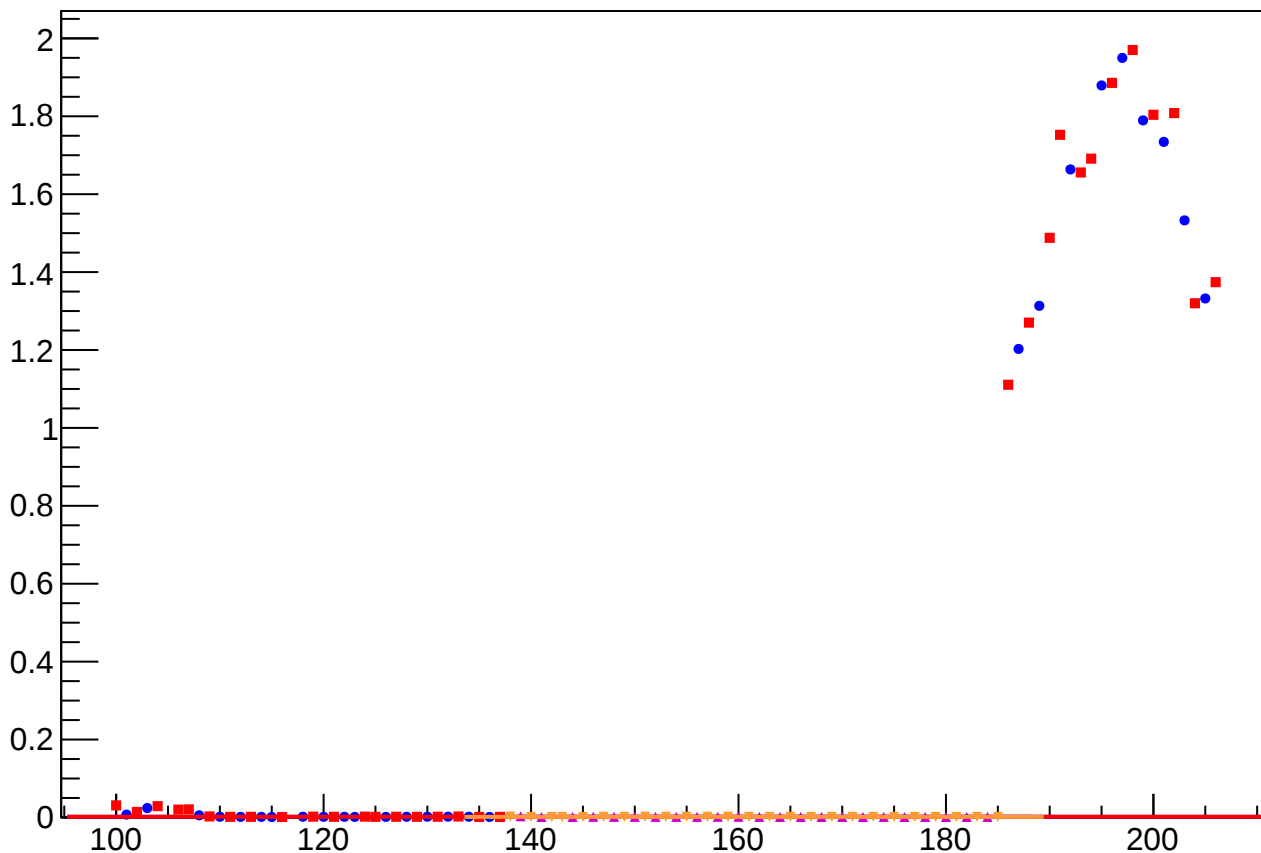
Out: 0.000+/-0.000

χ^2/NDF : 3199896250.7/55

All: 0.000+/-0.000

χ^2/NDF : 13109658685.3/100

yield_cav4cX_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 14170326.5/25

Left Out: 0.001+/-0.000 χ^2/NDF : 539817.3/24

Right Out: 0.002+/-0.000 χ^2/NDF : 18561242.3/30

Left In: 0.001+/-0.000 χ^2/NDF : 626044.8/22

Left: 0.001+/-0.000 χ^2/NDF : 1169603.9/47

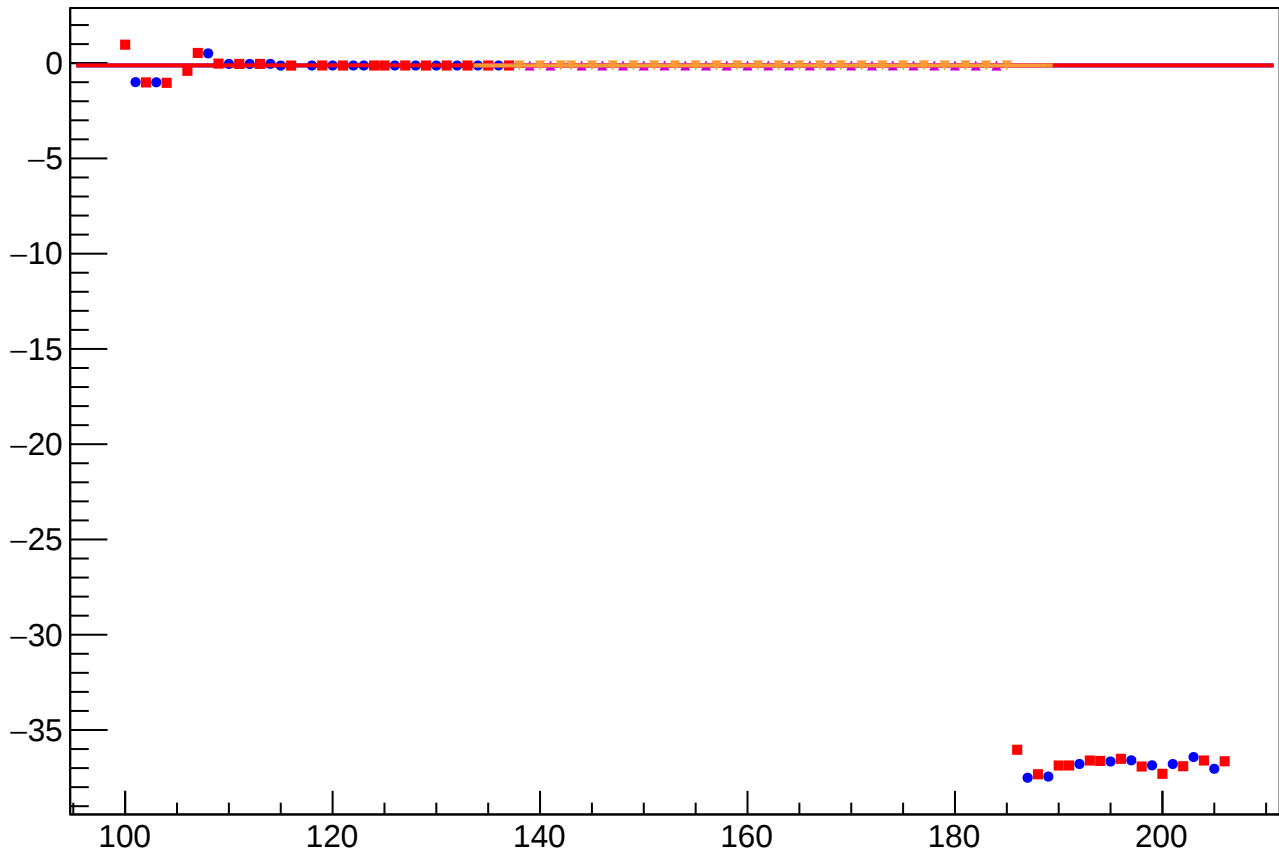
Right: 0.002+/-0.000 χ^2/NDF : 32740177.5/56

In: 0.002+/-0.000 χ^2/NDF : 14847910.9/48

Out: 0.002+/-0.000 χ^2/NDF : 19240306.2/55

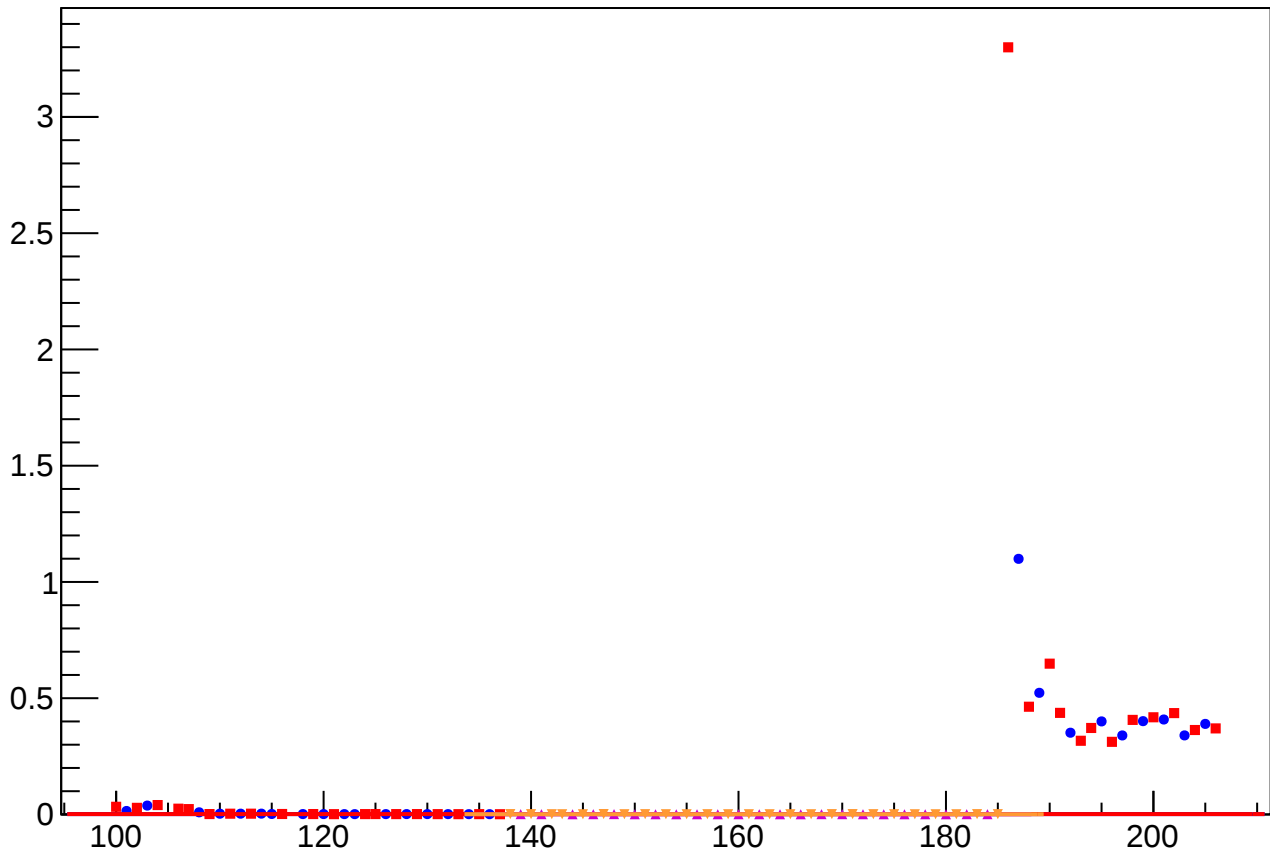
All: 0.002+/-0.000 χ^2/NDF : 34089115.1/104

yield_cav4cY_mean vs Slug, Sign Corrected



Right In: -0.121 ± 0.000 $\chi^2/\text{NDF}: 57475407681.5/25$ Left: -0.121 ± 0.000 $\chi^2/\text{NDF}: 110482905.6/47$
Left Out: -0.121 ± 0.000 $\chi^2/\text{NDF}: 58120109.3/24$ Right: -0.119 ± 0.000 $\chi^2/\text{NDF}: 125916068240.7/56$
Right Out: -0.116 ± 0.000 $\chi^2/\text{NDF}: 68419227911.5/30$ In: -0.121 ± 0.000 $\chi^2/\text{NDF}: 57527586670.4/48$
Left In: -0.121 ± 0.000 $\chi^2/\text{NDF}: 52113932.9/22$ Out: -0.121 ± 0.000 $\chi^2/\text{NDF}: 68515652800.5/55$
All: -0.121 ± 0.000 $\chi^2/\text{NDF}: 126044120835.9$

yield_cav4cY_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 14600858.9/25

Left Out: 0.001+/-0.000 χ^2/NDF :1363316.8/24

Right Out: 0.002+/-0.000 χ^2/NDF : 18510045.9/30

Left In: 0.001+/-0.000 χ^2/NDF :970801.8/22

Left: 0.001+/-0.000 χ^2/NDF : 2335161.7/47

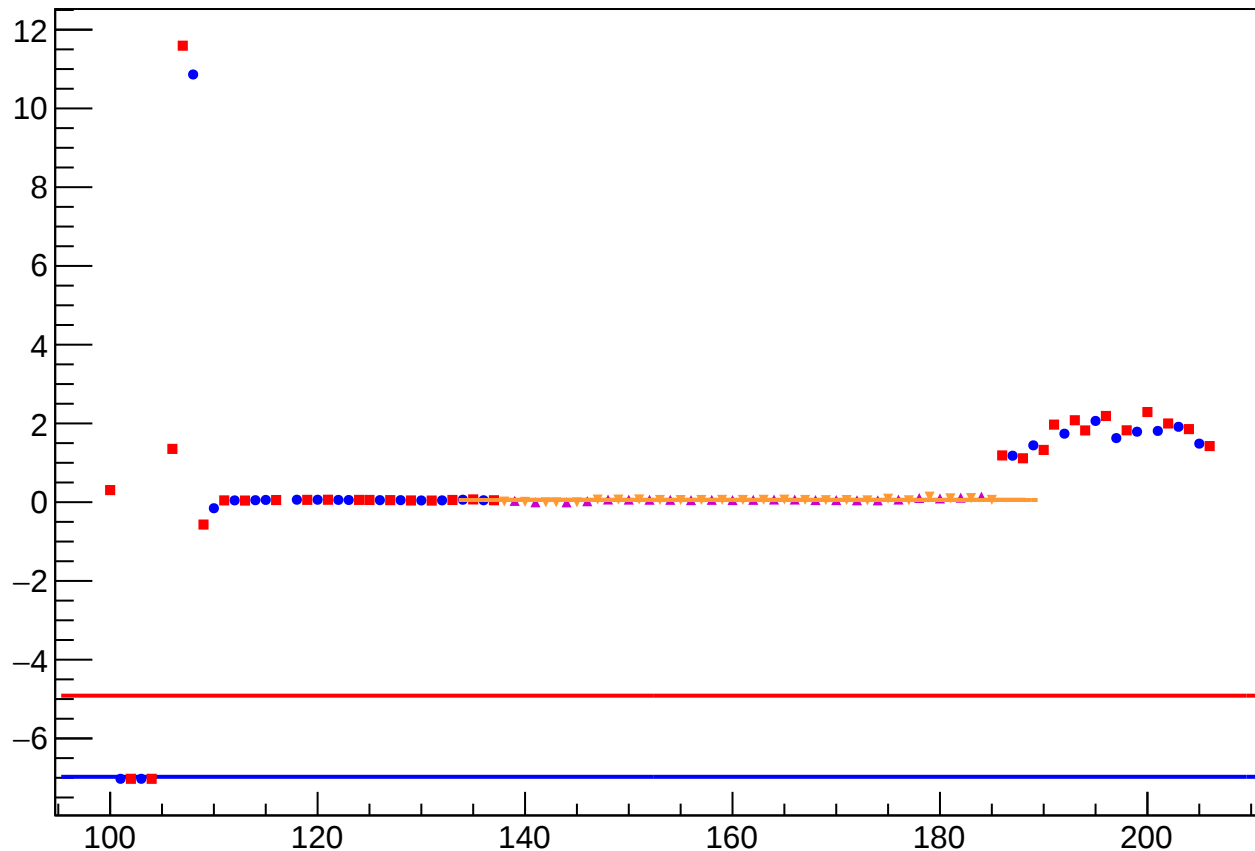
Right: 0.002+/-0.000 χ^2/NDF : 33110989.3/56

In: 0.001+/-0.000 χ^2/NDF :16743333.4/48

Out: 0.001+/-0.000 χ^2/NDF :21055646.8/55

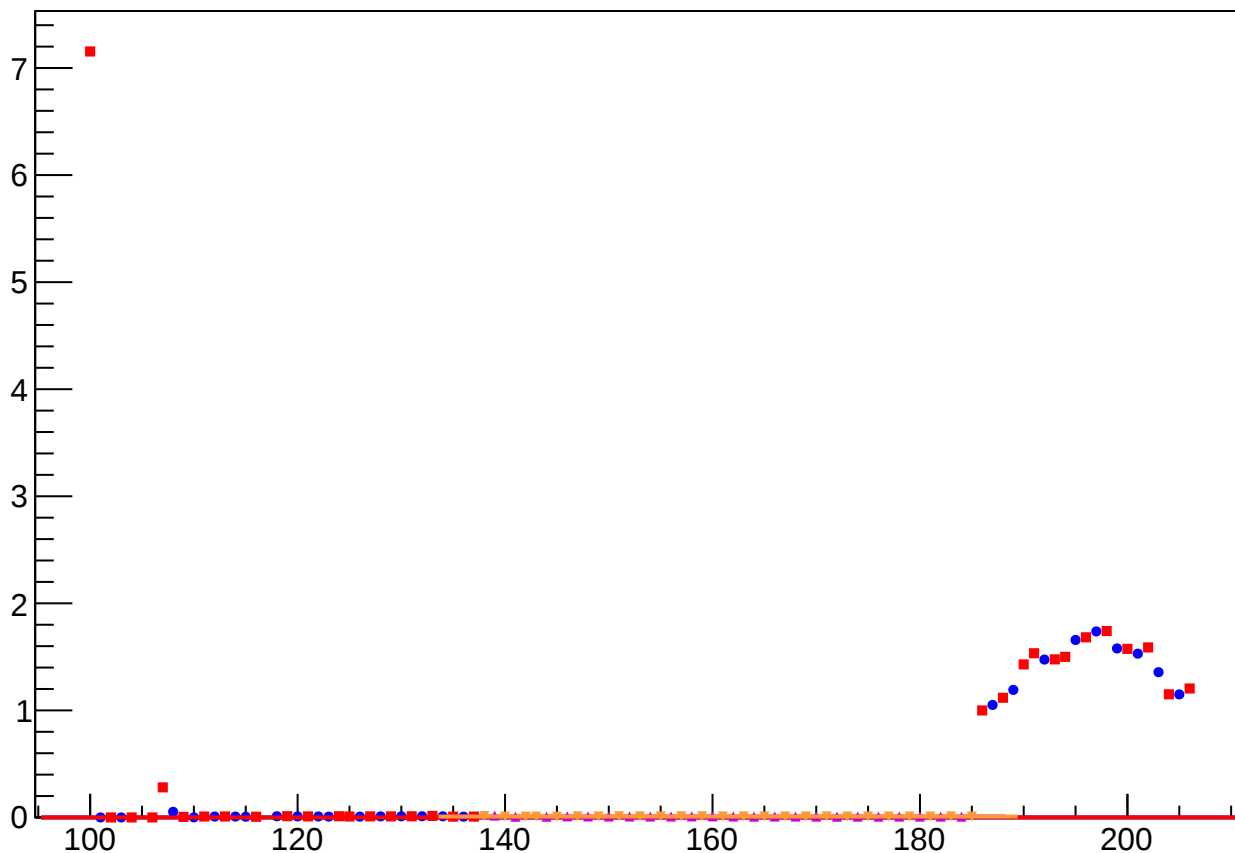
All: 0.001+/-0.000 χ^2/NDF : 37801485.8/104

yield_cav4dX_mean vs Slug, Sign Corrected



Right In: -6.975 ± 0.000 $\chi^2/\text{NDF}: 8797587434953.5/25$ Left: 0.057 ± 0.000 $\chi^2/\text{NDF}: 423736513.4/47$
 Left Out: 0.055 ± 0.000 $\chi^2/\text{NDF}: 243682351.4/24$ Right: -5.900 ± 0.000 $\chi^2/\text{NDF}: 430333683725375.2$
 Right Out: -4.914 ± 0.000 $\chi^2/\text{NDF}: 365352838958624.2/30$ In: -6.926 ± 0.000 $\chi^2/\text{NDF}: 17553105292979.8/48$
 Left In: 0.059 ± 0.000 $\chi^2/\text{NDF}: 178541521.9/22$ Out: -4.879 ± 0.000 $\chi^2/\text{NDF}: 370165401777381.2/48$
 All: -5.858 ± 0.000 $\chi^2/\text{NDF}: 4435289735999$

yield_cav4dX_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 20621131.3/25

Left Out: 0.009+/-0.000 χ^2/NDF :514432.8/24

Right Out: 0.000+/-0.000 χ^2/NDF : 24348700.8/30

Left In: 0.009+/-0.000 χ^2/NDF :602517.2/22

Left: 0.009+/-0.000 χ^2/NDF : 1122225.0/47

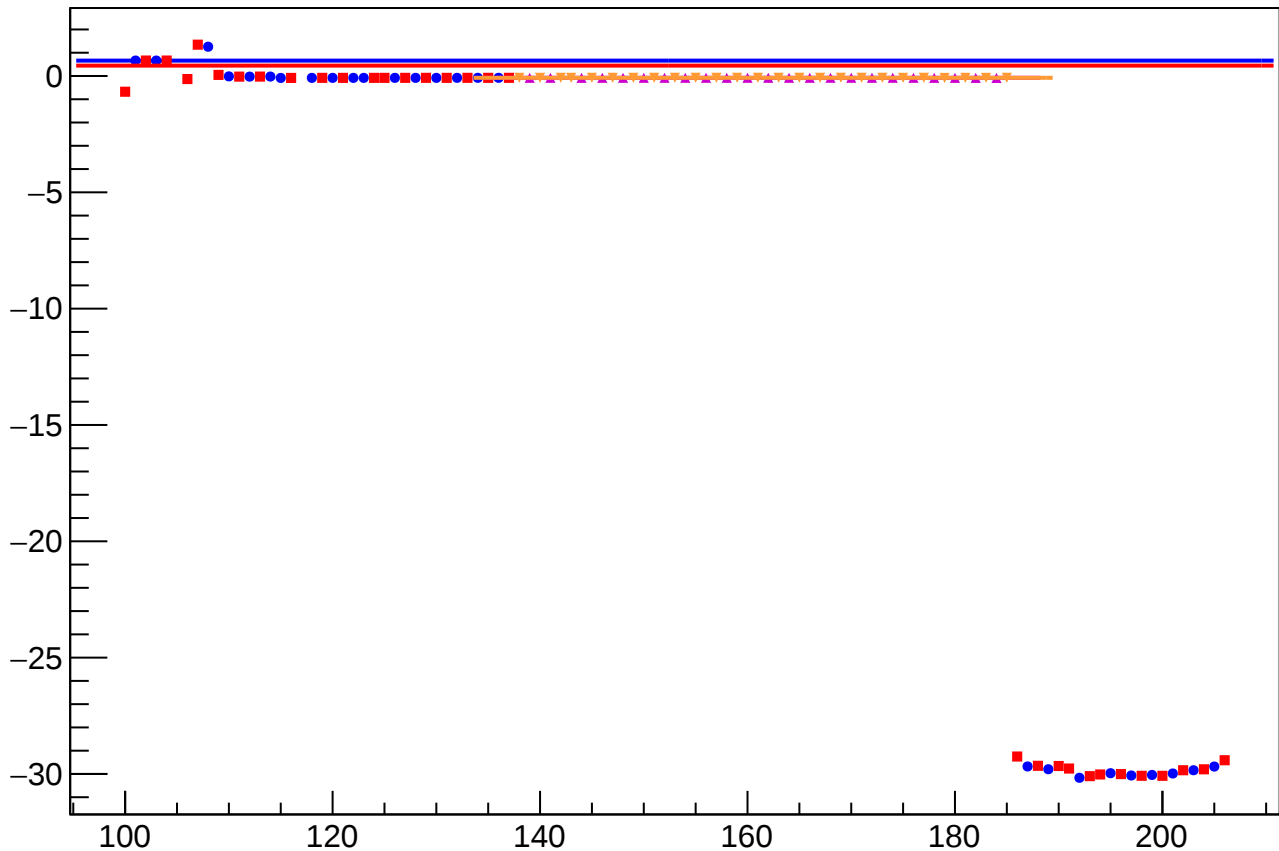
Right: 0.000+/-0.000 χ^2/NDF : 44970176.3/56

In: 0.000+/-0.000 χ^2/NDF :48039068.2/48

Out: 0.000+/-0.000 χ^2/NDF :53292650.3/55

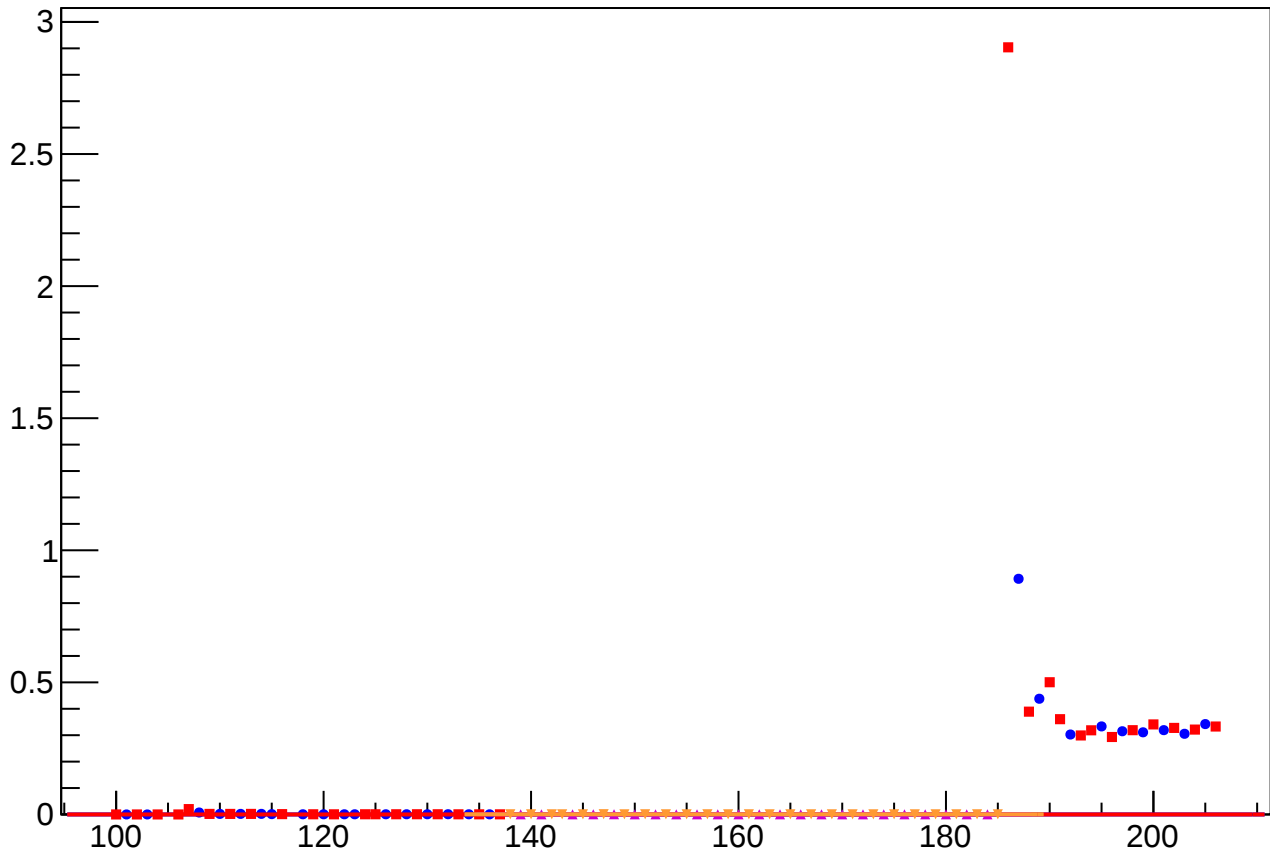
All: 0.000+/-0.000 χ^2/NDF : 101332178.9/104

yield_cav4dY_mean vs Slug, Sign Corrected



Right In: 0.661+/-0.000	χ^2/NDF : 5712049795629.8/25	Left: -0.078+/-0.000	χ^2/NDF : 267206251.1/47
Left Out: -0.078+/-0.000	χ^2/NDF : 156404795.7/24	Right: 0.549+/-0.000	χ^2/NDF : 474115860752645.8
Right Out: 0.446+/-0.000	χ^2/NDF : 405490492449847.8/30	In: 0.647+/-0.000	χ^2/NDF : 33752734212310.9/48
Left In: -0.077+/-0.000	χ^2/NDF : 110762924.1/22	Out: 0.436+/-0.000	χ^2/NDF : 420651569717103.6/5
		All: 0.537+/-0.000	χ^2/NDF : 51596025041453

yield_cav4dY_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 22081902.7/25

Left Out: 0.001+/-0.000 χ^2/NDF : 465981.8/24

Right Out: 0.000+/-0.000 χ^2/NDF : 24886158.2/30

Left In: 0.001+/-0.000 χ^2/NDF : 355509.7/22

Left: 0.001+/-0.000 χ^2/NDF : 822503.5/47

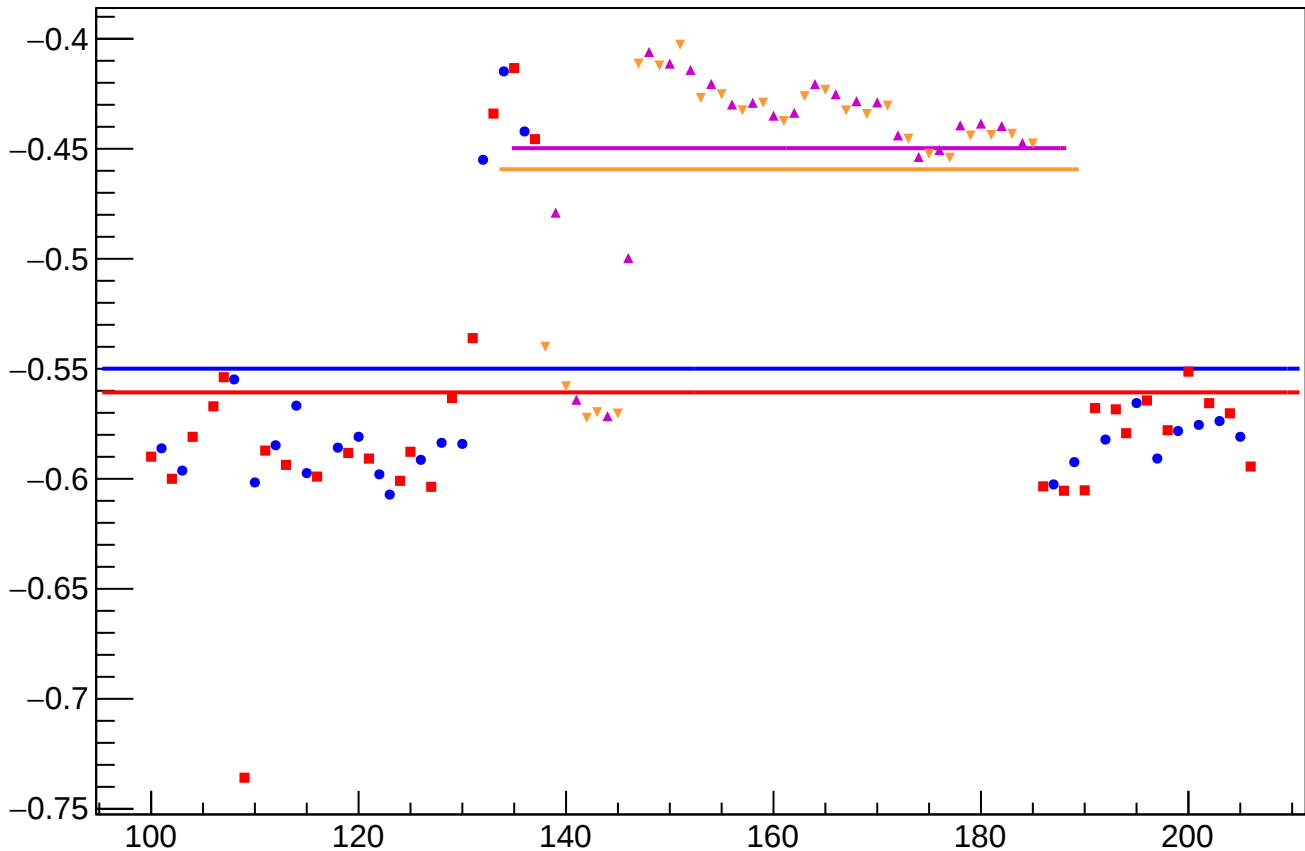
Right: 0.000+/-0.000 χ^2/NDF : 46968076.3/56

In: 0.000+/-0.000 χ^2/NDF : 52814250.6/48

Out: 0.000+/-0.000 χ^2/NDF : 57507259.7/55

All: 0.000+/-0.000 χ^2/NDF : 110321844.7/104

yield_bpm4aX_mean vs Slug, Sign Corrected



Right In: -0.550+/-0.000 χ^2/NDF : 48028194.2/25

Left Out: -0.459+/-0.000 χ^2/NDF : 113602161.0/24

Right Out: -0.561+/-0.000 χ^2/NDF : 65999245.2/30

Left In: -0.450+/-0.000 χ^2/NDF : 76117957.8/22

Left: -0.455+/-0.000 χ^2/NDF : 191493218.8/47

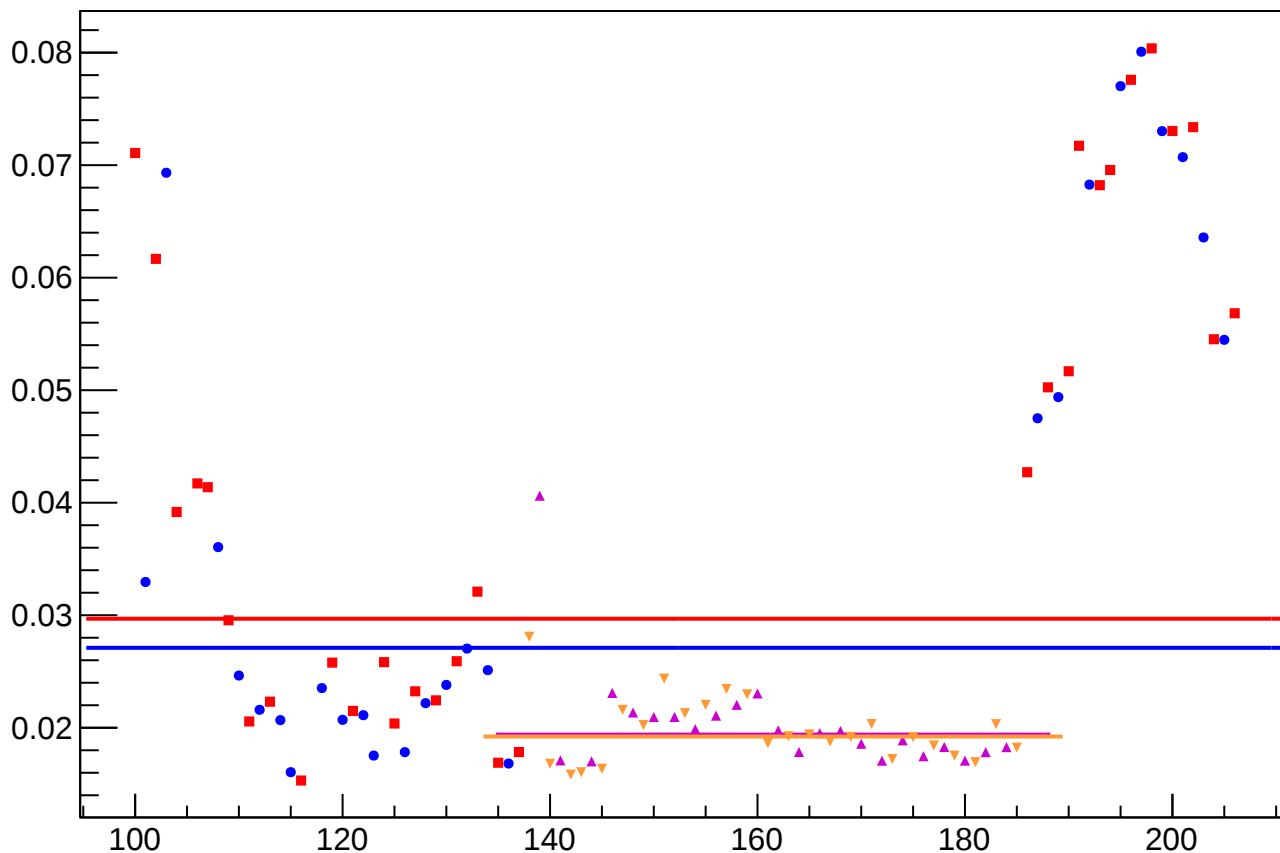
Right: -0.555+/-0.000 χ^2/NDF : 114717895.4/56

In: -0.474+/-0.000 χ^2/NDF : 215103971.7/48

Out: -0.482+/-0.000 χ^2/NDF : 273722514.6/55

All: -0.478+/-0.000 χ^2/NDF : 490537433.9/10

yield_bpm4aX_rms vs Slug, Sign Corrected



Right In: 0.027+/-0.000 χ^2/NDF : 5821616.3/25

Left Out: 0.019+/-0.000 χ^2/NDF : 501711.6/24

Right Out: 0.030+/-0.000 χ^2/NDF : 6446511.5/30

Left In: 0.019+/-0.000 χ^2/NDF : 626443.5/22

Left: 0.019+/-0.000 χ^2/NDF : 1129330.7/47

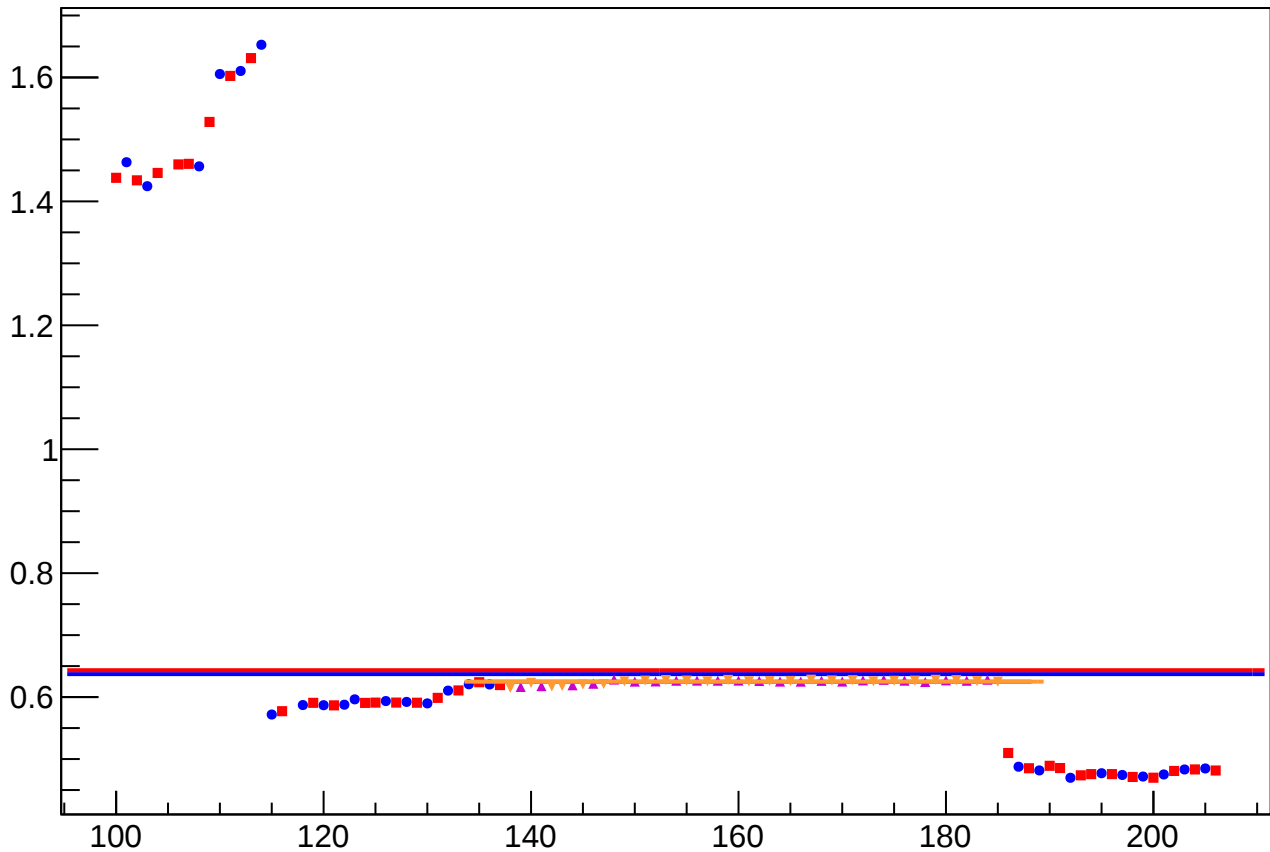
Right: 0.028+/-0.000 χ^2/NDF : 12347814.9/56

In: 0.021+/-0.000 χ^2/NDF : 7524802.2/48

Out: 0.022+/-0.000 χ^2/NDF : 8955639.4/55

All: 0.021+/-0.000 χ^2/NDF : 16485928.0/104

yield_bpm4aY_mean vs Slug, Sign Corrected



Right In: 0.637 $\pm$ 0.000 χ^2 /NDF: 4927782631.5/25

Left Out: 0.625 $\pm$ 0.000 χ^2 /NDF:1445169.1/24

Right Out: 0.643 $\pm$ 0.000 χ^2 /NDF: 6048670824.8/30

Left In: 0.625 $\pm$ 0.000 χ^2 /NDF:1143954.1/22

Left: 0.625 $\pm$ 0.000 χ^2 /NDF: 2589565.7/47

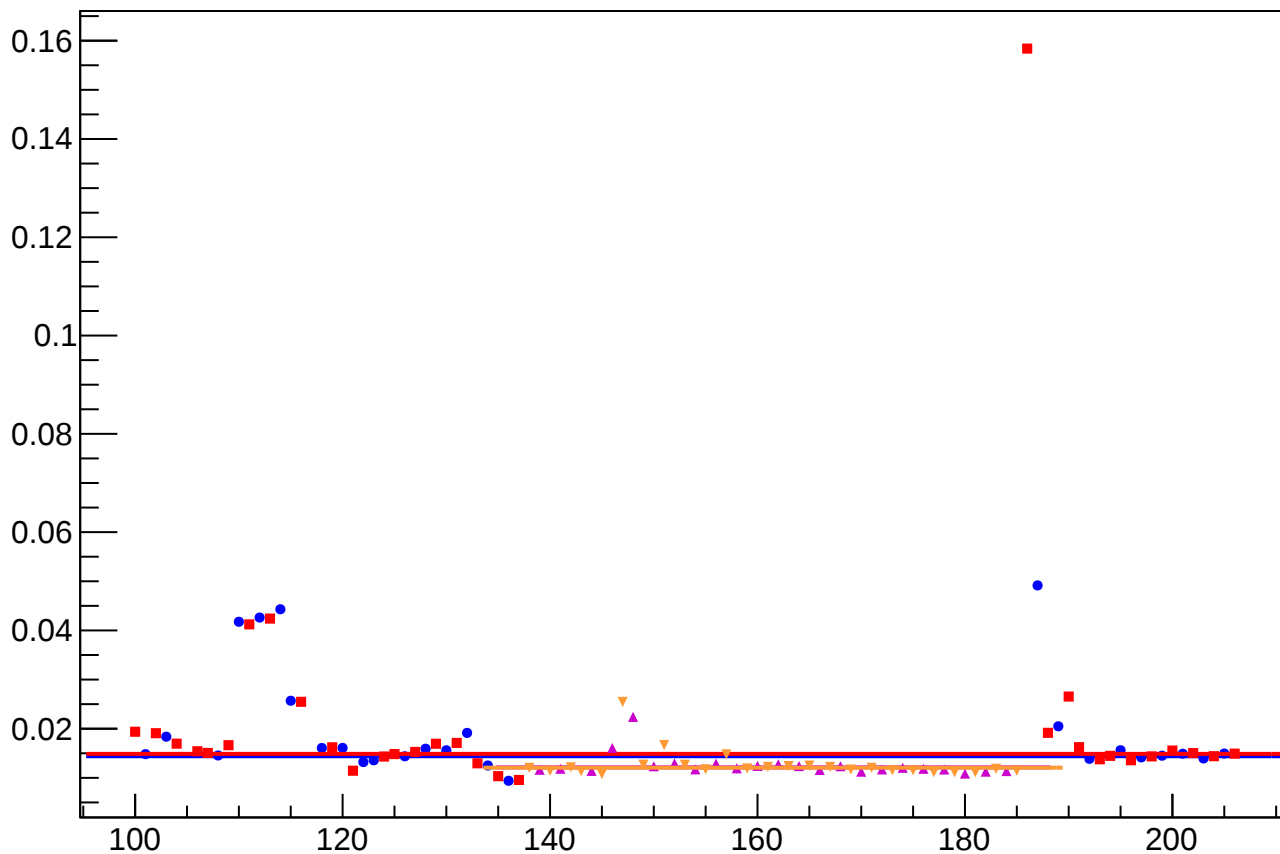
Right: 0.640 $\pm$ 0.000 χ^2 /NDF: 10977605984.9/56

In: 0.629 $\pm$ 0.000 χ^2 /NDF:4934524306.6/48

Out: 0.631 $\pm$ 0.000 χ^2 /NDF:6063787538.7/55

All: 0.630 $\pm$ 0.000 χ^2 /NDF: 10998722066.4/100

yield_bpm4aY_rms vs Slug, Sign Corrected



Right In: 0.014 $\pm$ 0.000 χ^2 /NDF: 1640509.6/25

Left Out: 0.012 $\pm$ 0.000 χ^2 /NDF: 657199.9/24

Right Out: 0.015 $\pm$ 0.000 χ^2 /NDF: 2079154.5/30

Left In: 0.012 $\pm$ 0.000 χ^2 /NDF: 488363.6/22

Left: 0.012 $\pm$ 0.000 χ^2 /NDF: 1146061.0/47

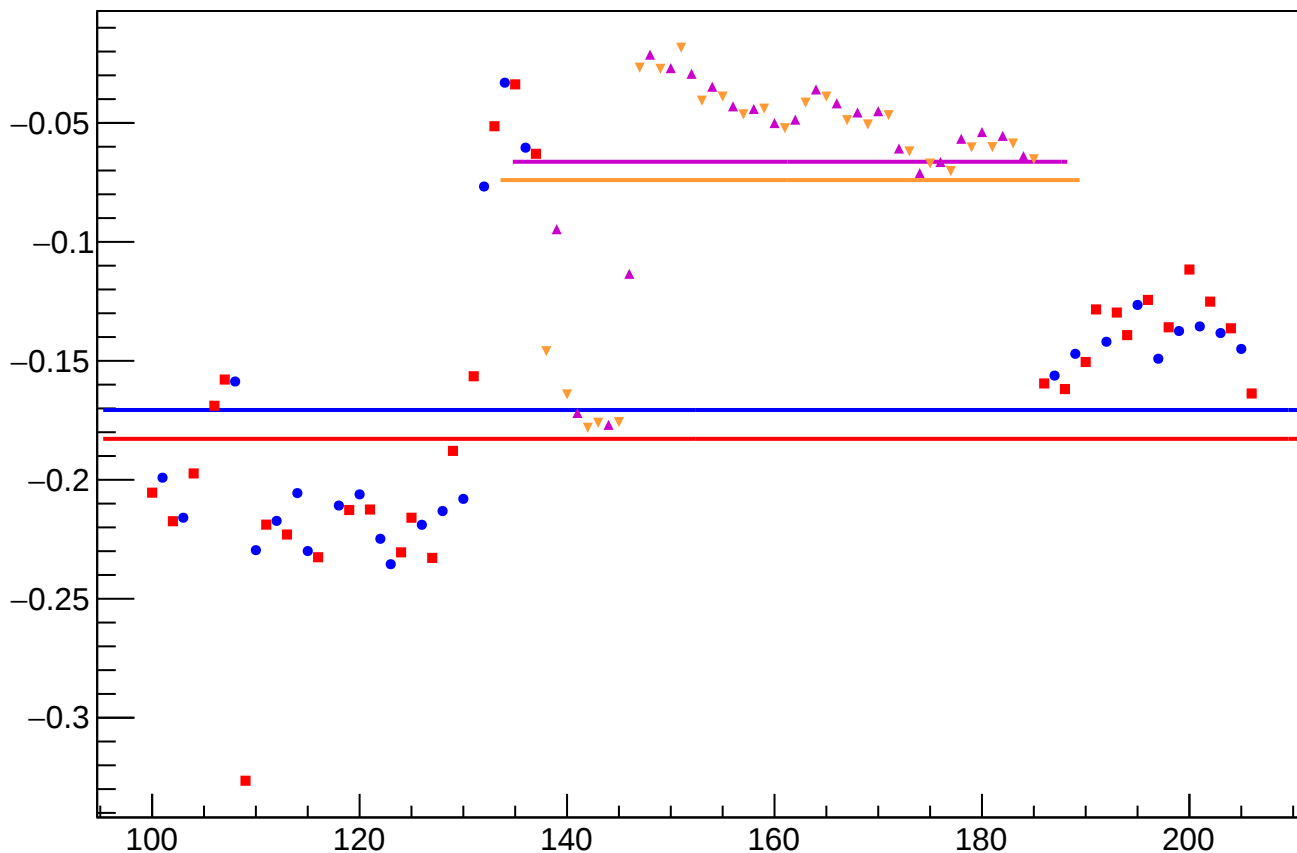
Right: 0.015 $\pm$ 0.000 χ^2 /NDF: 3732795.7/56

In: 0.013 $\pm$ 0.000 χ^2 /NDF: 2512563.4/48

Out: 0.013 $\pm$ 0.000 χ^2 /NDF: 3368290.1/55

All: 0.013 $\pm$ 0.000 χ^2 /NDF: 5883260.0/104

yield_bpm4eX_mean vs Slug, Sign Corrected



Right In: -0.171+/-0.000 χ^2/NDF : 68335067.5/25

Left Out: -0.074+/-0.000 χ^2/NDF : 107676601.9/24

Right Out: -0.183+/-0.000 χ^2/NDF : 86383098.2/30

Left In: -0.066+/-0.000 χ^2/NDF : 76243051.8/22

Left: -0.070+/-0.000 χ^2/NDF : 185076997.5/47

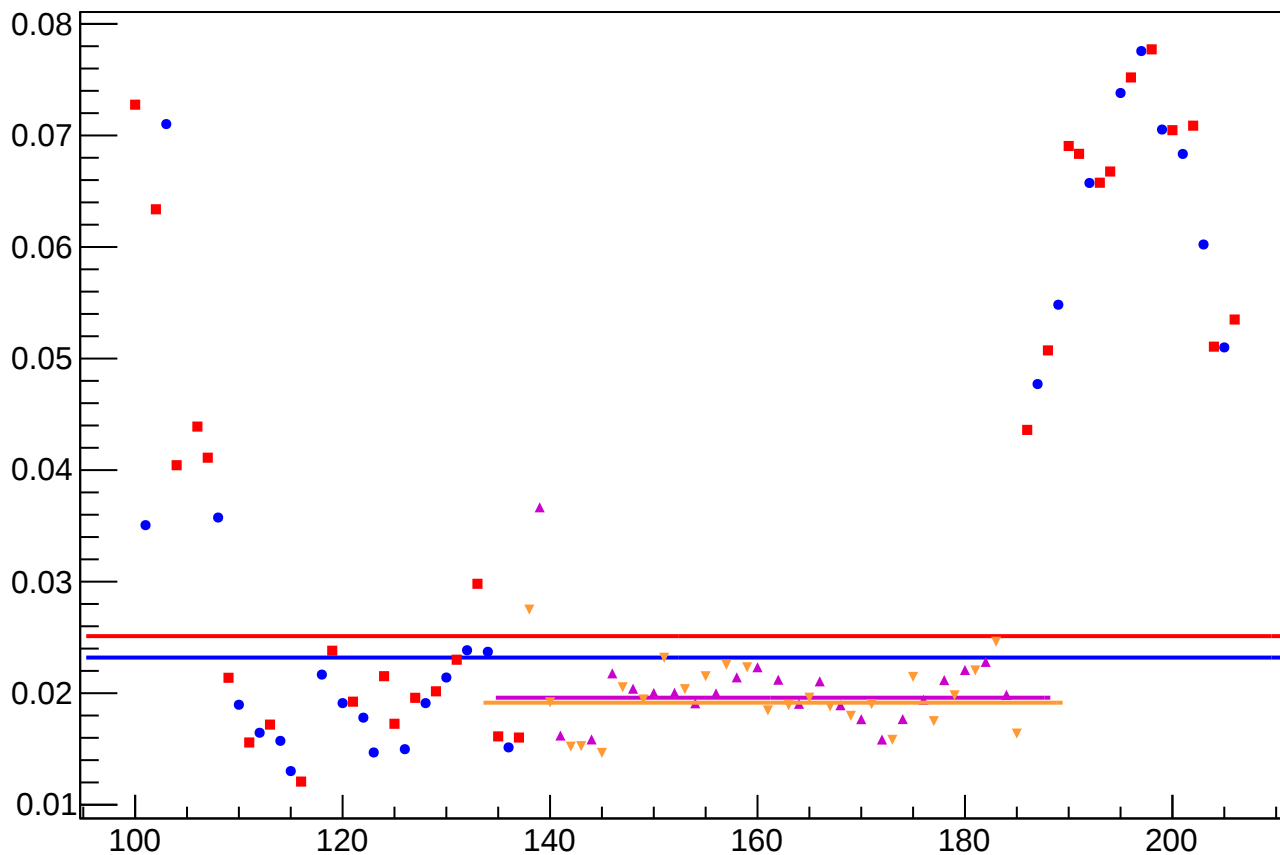
Right: -0.177+/-0.000 χ^2/NDF : 155859770.1/56

In: -0.097+/-0.000 χ^2/NDF : 263805073.6/48

Out: -0.104+/-0.000 χ^2/NDF : 327212380.6/55

All: -0.101+/-0.000 χ^2/NDF : 592239835.8/10

yield_bpm4eX_rms vs Slug, Sign Corrected



Right In: 0.023+/-0.000 χ^2/NDF : 6762005.0/25

Left Out: 0.019+/-0.000 χ^2/NDF : 641277.0/24

Right Out: 0.025+/-0.000 χ^2/NDF : 7838095.5/30

Left In: 0.020+/-0.000 χ^2/NDF : 623148.2/22

Left: 0.019+/-0.000 χ^2/NDF : 1272240.9/47

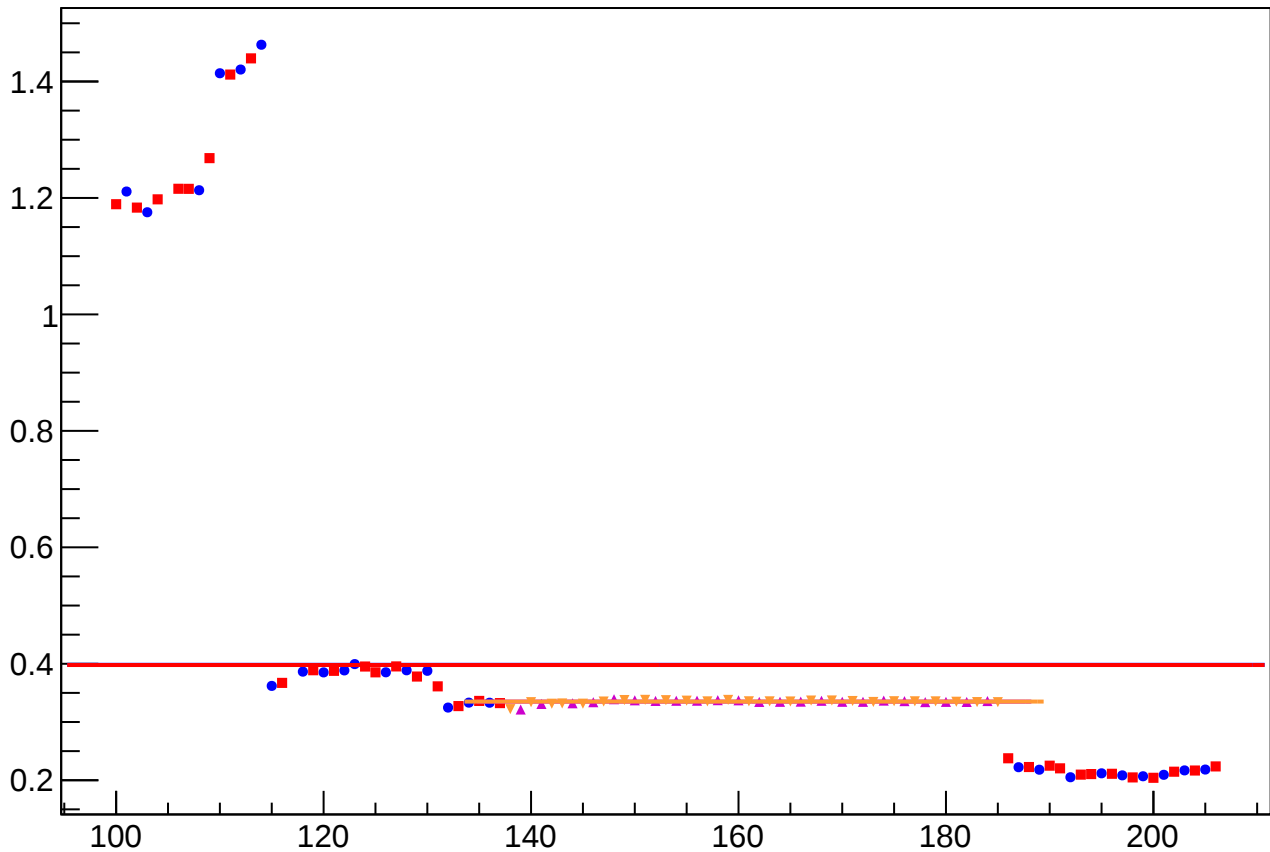
Right: 0.024+/-0.000 χ^2/NDF : 14657317.7/56

In: 0.021+/-0.000 χ^2/NDF : 7668766.3/48

Out: 0.021+/-0.000 χ^2/NDF : 9280662.6/55

All: 0.021+/-0.000 χ^2/NDF : 16950268.7/104

yield_bpm4eY_mean vs Slug, Sign Corrected



Right In: 0.398 $\pm$ 0.000 χ^2 /NDF: 7285017612.6/25

Left Out: 0.335 $\pm$ 0.000 χ^2 /NDF:1154310.3/24

Right Out: 0.398 $\pm$ 0.000 χ^2 /NDF: 8528846047.6/30

Left In: 0.335 $\pm$ 0.000 χ^2 /NDF:1202194.8/22

Left: 0.335 $\pm$ 0.000 χ^2 /NDF: 2356931.1/47

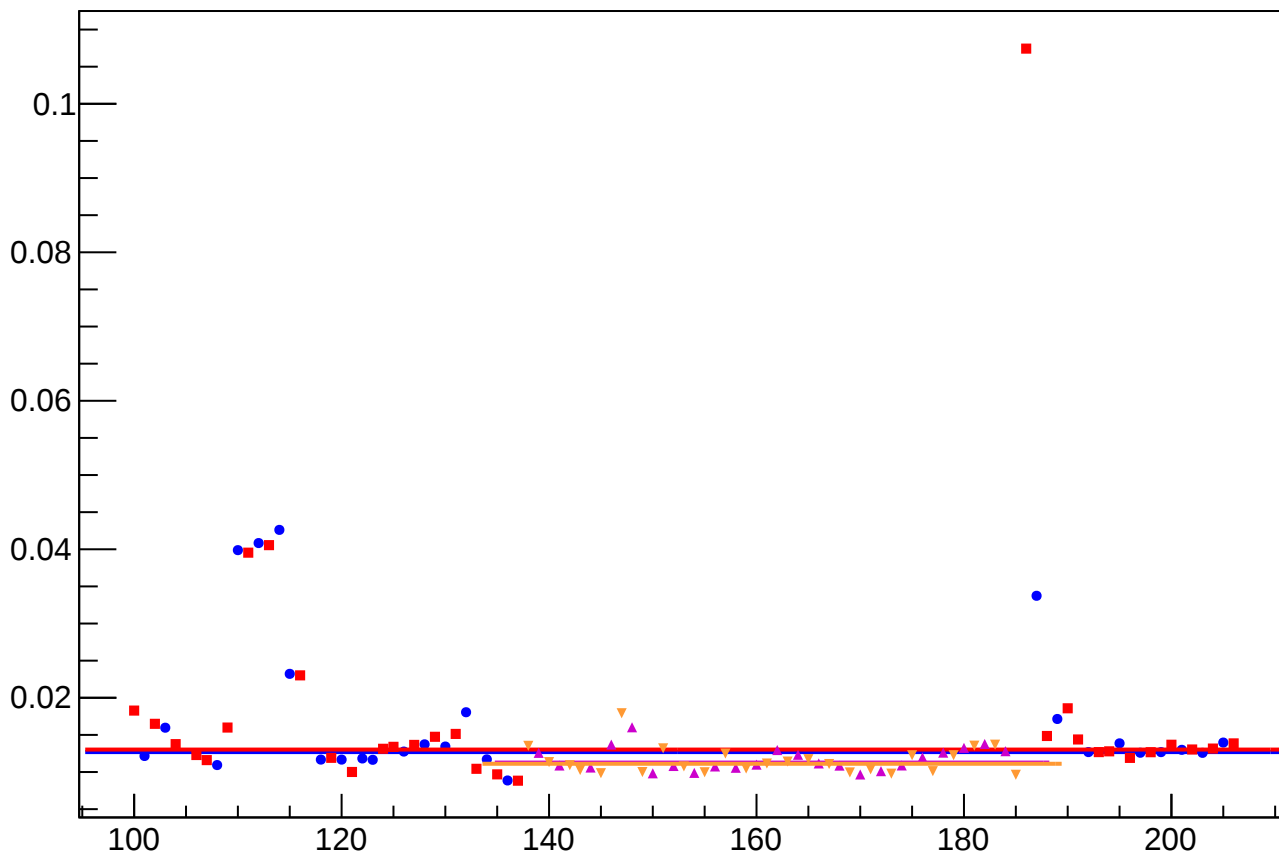
Right: 0.398 $\pm$ 0.000 χ^2 /NDF: 15813868369.8/56

In: 0.358 $\pm$ 0.000 χ^2 /NDF:7471457370.5/48

Out: 0.357 $\pm$ 0.000 χ^2 /NDF:8728257102.4/55

All: 0.358 $\pm$ 0.000 χ^2 /NDF: 16199717477.7/103

yield_bpm4eY_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 1522524.4/25

Left Out: 0.011+/-0.000 χ^2/NDF : 607532.0/24

Right Out: 0.013+/-0.000 χ^2/NDF : 1944397.4/30

Left In: 0.011+/-0.000 χ^2/NDF : 502455.5/22

Left: 0.011+/-0.000 χ^2/NDF : 1113465.5/47

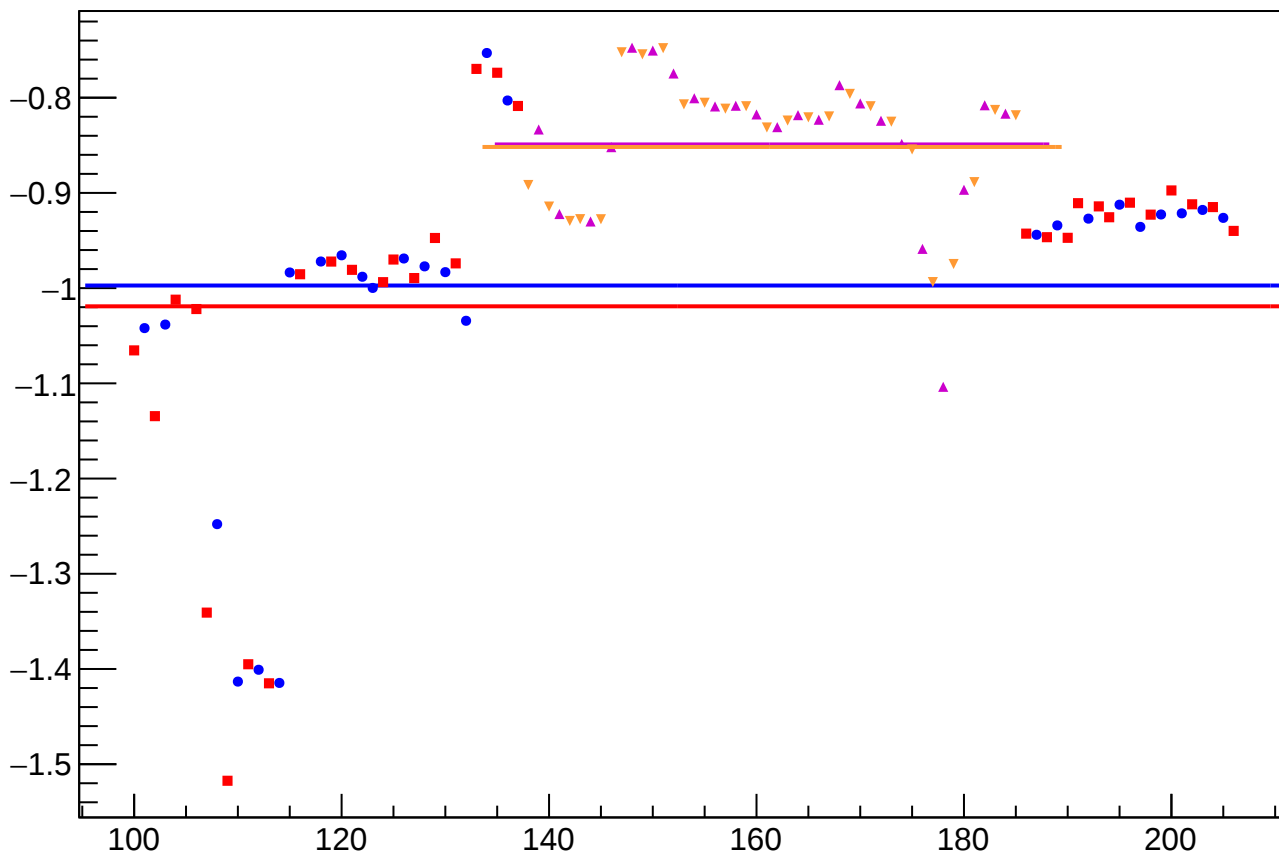
Right: 0.013+/-0.000 χ^2/NDF : 3475581.5/56

In: 0.012+/-0.000 χ^2/NDF : 2209903.6/48

Out: 0.012+/-0.000 χ^2/NDF : 2919887.3/55

All: 0.012+/-0.000 χ^2/NDF : 5129841.5/104

yield_bpm4acX_mean vs Slug, Sign Corrected



Right In: -0.997 ± 0.000 χ^2/NDF : 402608203.8/25

Left Out: -0.852 ± 0.000 χ^2/NDF : 189103962.4/24

Right Out: -1.019 ± 0.000 χ^2/NDF : 557820123.3/30

Left In: -0.849 ± 0.000 χ^2/NDF : 256391274.4/22

Left: -0.850 ± 0.000 χ^2/NDF : 445636655.2/47

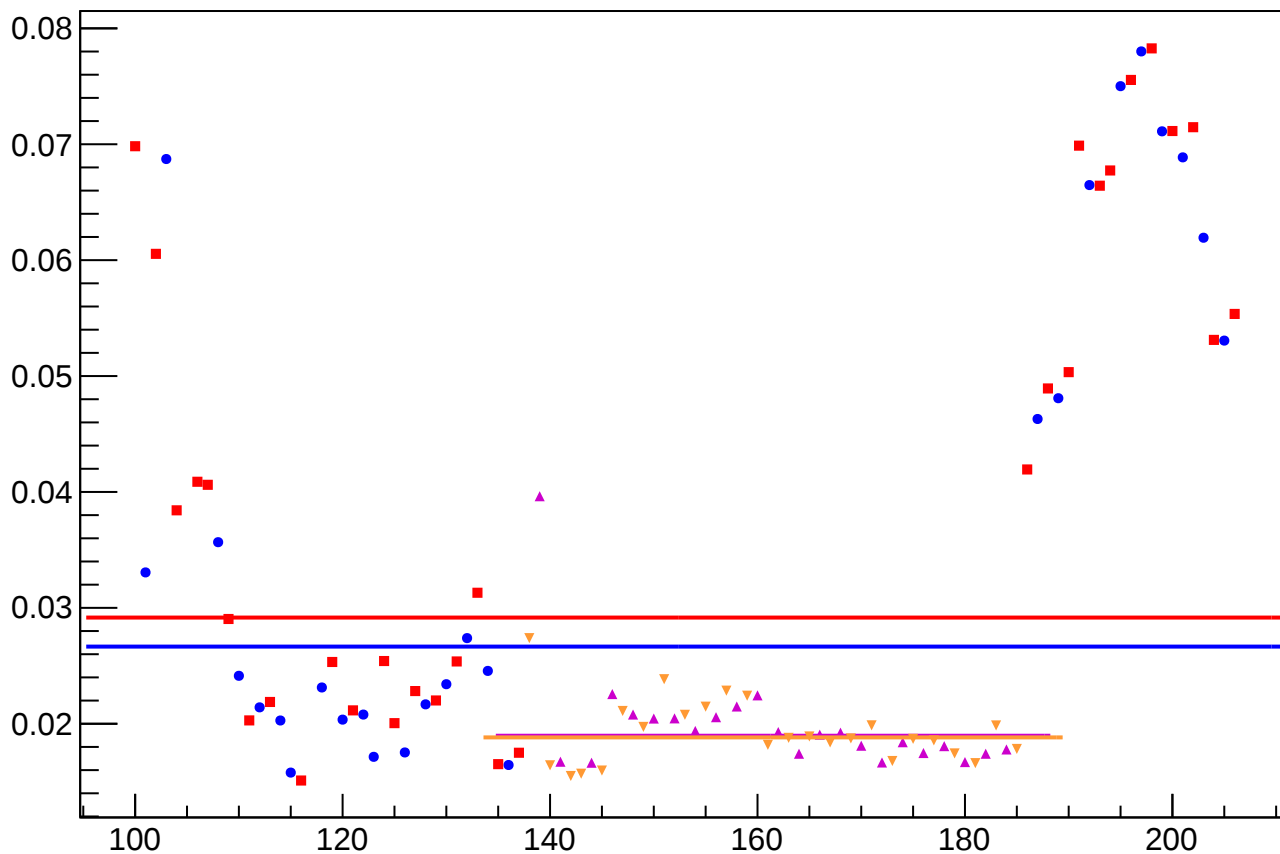
Right: -1.008 ± 0.000 χ^2/NDF : 963377321.0/56

In: -0.885 ± 0.000 χ^2/NDF : 865418686.6/48

Out: -0.890 ± 0.000 χ^2/NDF : 1013368510.6/55

All: -0.887 ± 0.000 χ^2/NDF : 1879392339.3/1

yield_bpm4acX_rms vs Slug, Sign Corrected



Right In: 0.027+/-0.000 χ^2/NDF : 5792496.7/25

Left Out: 0.019+/-0.000 χ^2/NDF : 490509.4/24

Right Out: 0.029+/-0.000 χ^2/NDF : 6383170.3/30

Left In: 0.019+/-0.000 χ^2/NDF : 615173.8/22

Left: 0.019+/-0.000 χ^2/NDF : 1106521.0/47

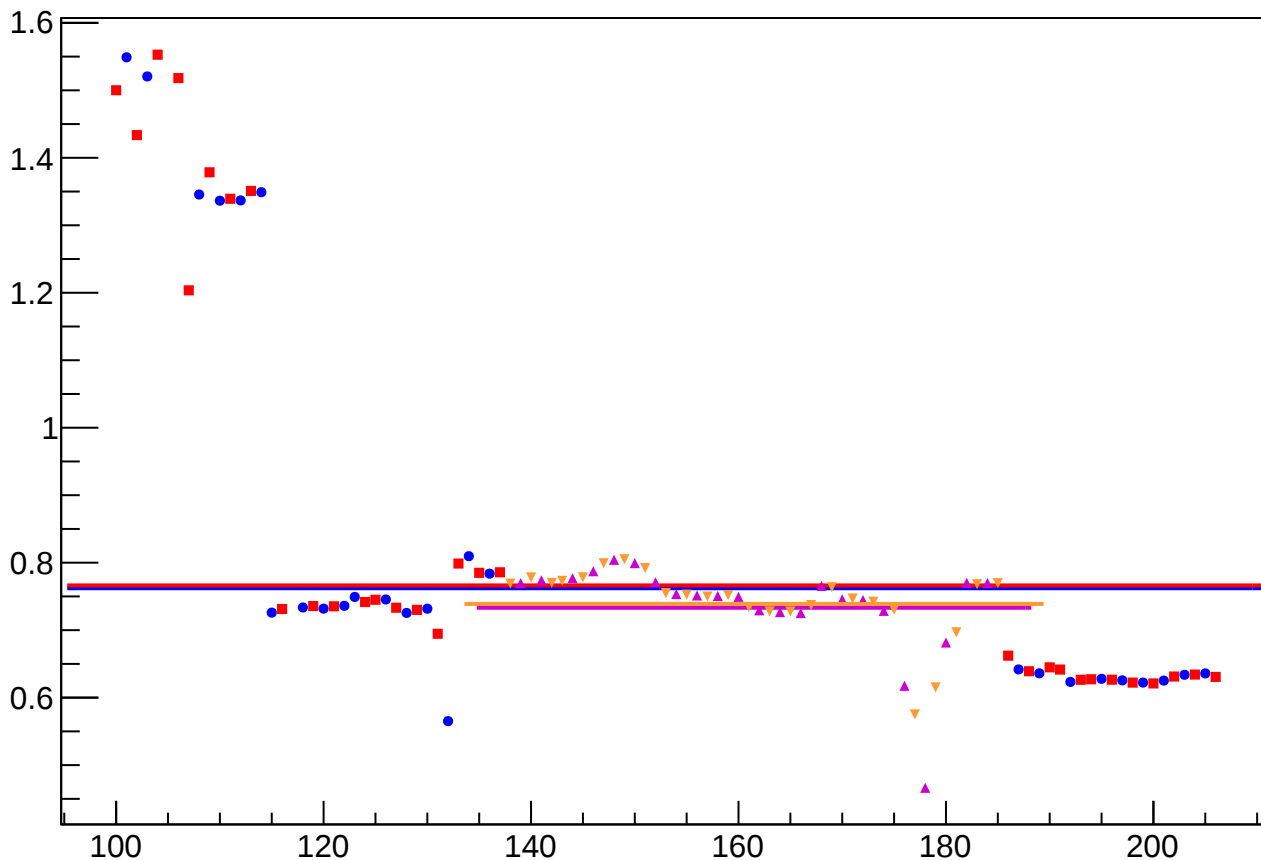
Right: 0.028+/-0.000 χ^2/NDF : 12253209.7/56

In: 0.021+/-0.000 χ^2/NDF : 7519953.2/48

Out: 0.021+/-0.000 χ^2/NDF : 8907646.8/55

All: 0.021+/-0.000 χ^2/NDF : 16433786.4/104

yield_bpm4acY_mean vs Slug, Sign Corrected



Right In: 0.762 $\pm$ 0.000 χ^2 /NDF: 3374139475.5/25

Left Out: 0.739 $\pm$ 0.000 χ^2 /NDF:333013236.5/24

Right Out: 0.766 $\pm$ 0.000 χ^2 /NDF: 3760876329.4/30

Left In: 0.733 $\pm$ 0.000 χ^2 /NDF:569611347.7/22

Left: 0.736 $\pm$ 0.000 χ^2 /NDF: 904456968.5/47

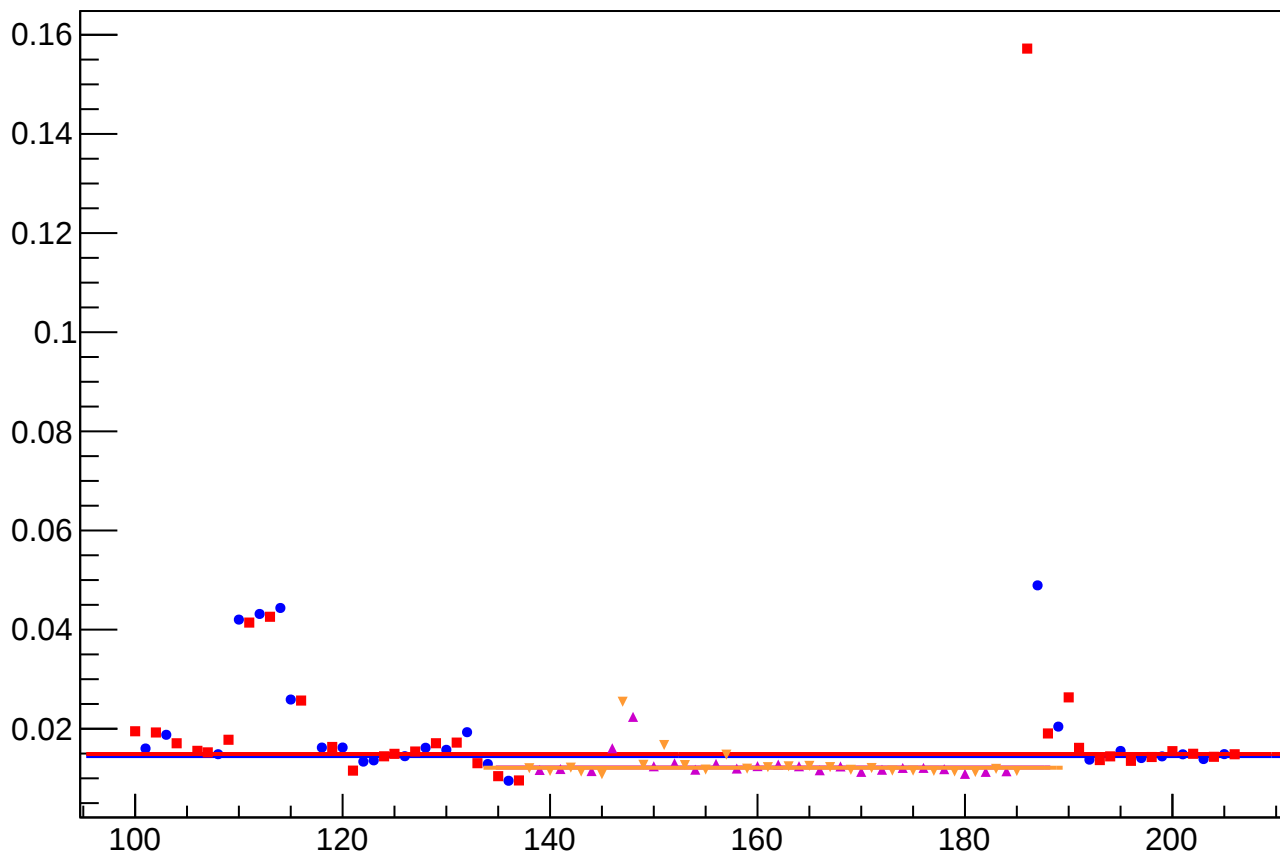
Right: 0.764 $\pm$ 0.000 χ^2 /NDF: 7135519601.1/56

In: 0.743 $\pm$ 0.000 χ^2 /NDF:3974552464.3/48

Out: 0.748 $\pm$ 0.000 χ^2 /NDF:4123877403.5/55

All: 0.745 $\pm$ 0.000 χ^2 /NDF: 8100832119.1/100

yield_bpm4acY_rms vs Slug, Sign Corrected



Right In: 0.014 $\pm$ 0.000 χ^2 /NDF: 1640631.4/25

Left Out: 0.012 $\pm$ 0.000 χ^2 /NDF:637986.2/24

Right Out: 0.015 $\pm$ 0.000 χ^2 /NDF: 2082931.2/30

Left In: 0.012 $\pm$ 0.000 χ^2 /NDF:481830.1/22

Left: 0.012 $\pm$ 0.000 χ^2 /NDF: 1120125.6/47

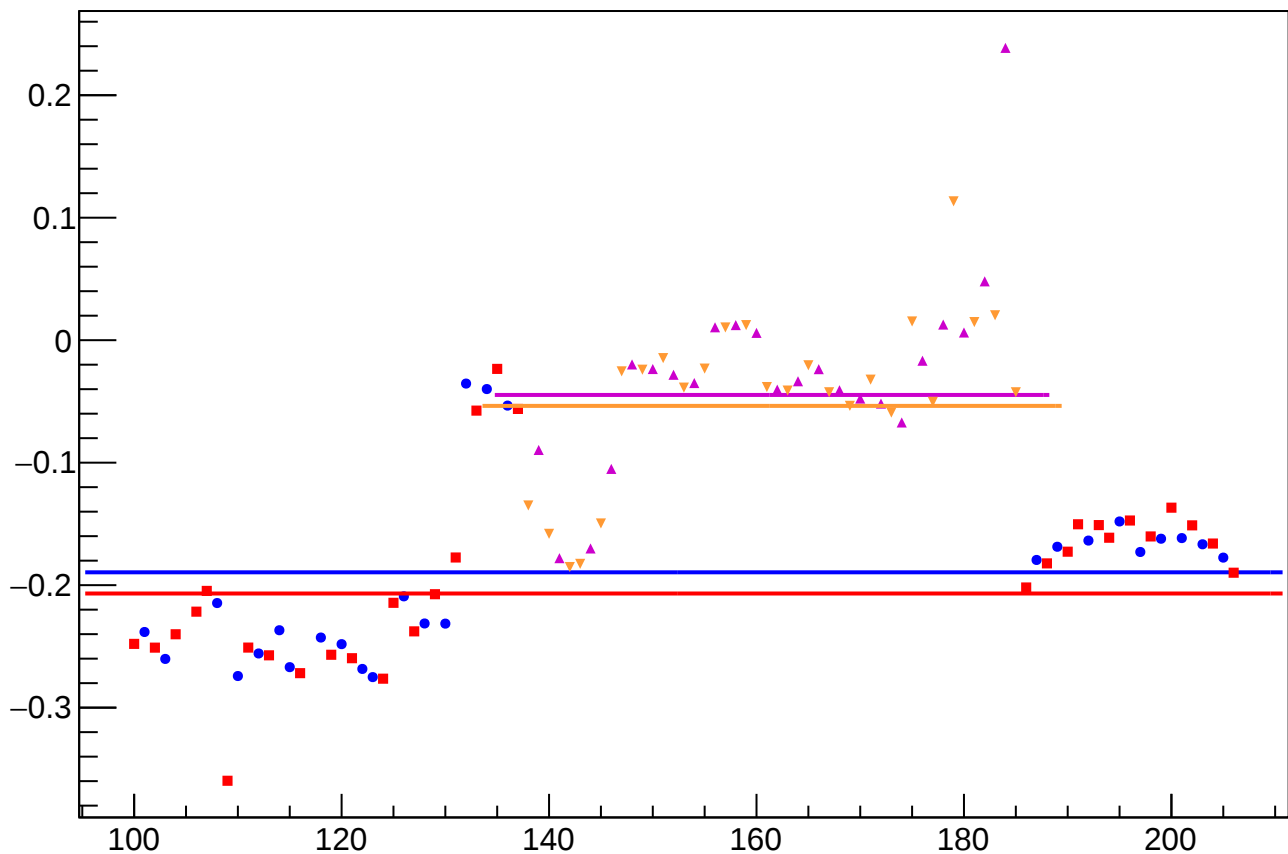
Right: 0.015 $\pm$ 0.000 χ^2 /NDF: 3733561.8/56

In: 0.013 $\pm$ 0.000 χ^2 /NDF:2512015.9/48

Out: 0.013 $\pm$ 0.000 χ^2 /NDF:3329969.3/55

All: 0.013 $\pm$ 0.000 χ^2 /NDF: 5844242.5/104

yield_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -0.190 ± 0.000 $\chi^2/\text{NDF}: 107169756.0/25$

Left Out: -0.054 ± 0.000 $\chi^2/\text{NDF}: 167834173.6/24$

Right Out: -0.207 ± 0.000 $\chi^2/\text{NDF}: 114680081.9/30$

Left In: -0.045 ± 0.000 $\chi^2/\text{NDF}: 127192425.2/22$

Left: -0.049 ± 0.000 $\chi^2/\text{NDF}: 296566503.6/47$

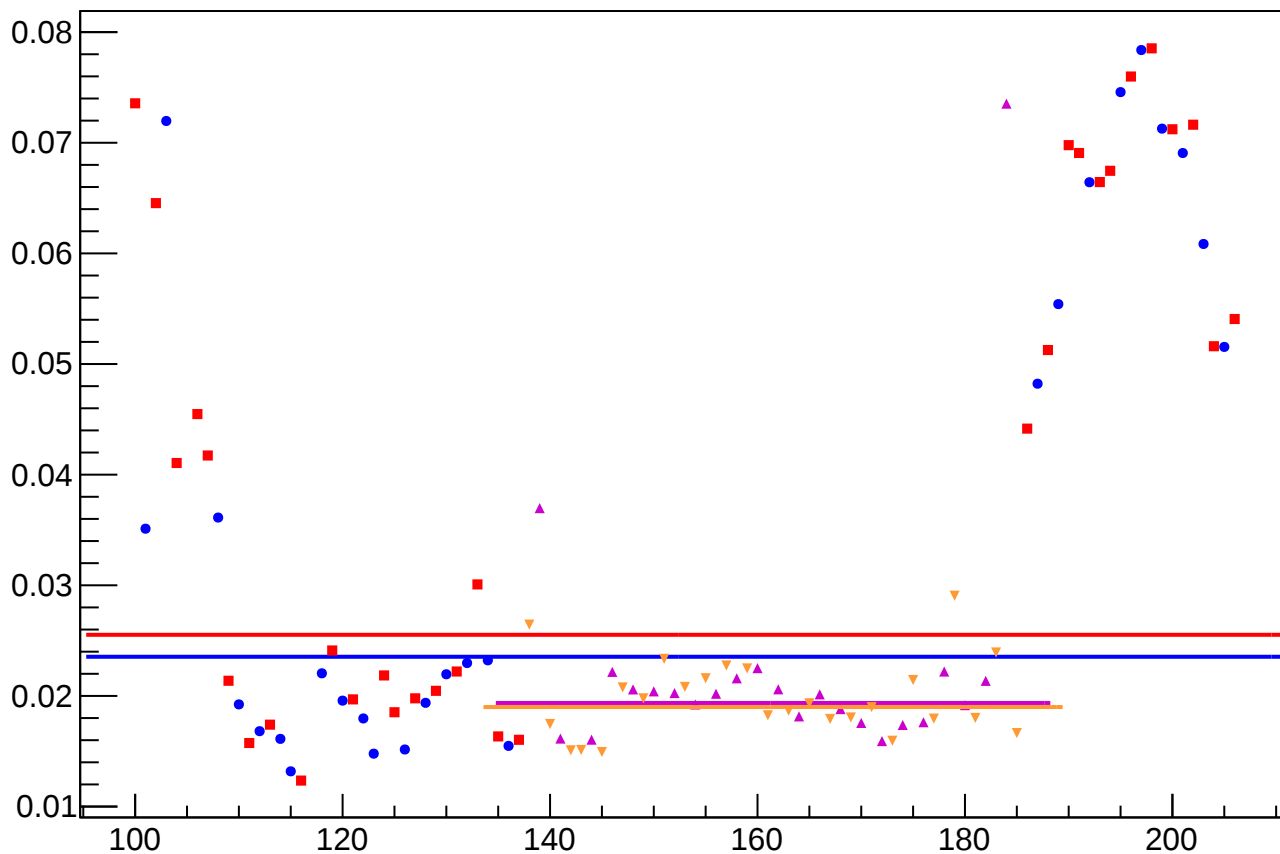
Right: -0.198 ± 0.000 $\chi^2/\text{NDF}: 224105374.4/56$

In: -0.087 ± 0.000 $\chi^2/\text{NDF}: 459301716.9/48$

Out: -0.095 ± 0.000 $\chi^2/\text{NDF}: 539561365.8/55$

All: -0.091 ± 0.000 $\chi^2/\text{NDF}: 1000728882.0/1$

yield_bpm4ecX_rms vs Slug, Sign Corrected



Right In: 0.024 $\pm$ 0.000 χ^2 /NDF: 6710369.5/25

Left Out: 0.019 $\pm$ 0.000 χ^2 /NDF: 700229.7/24

Right Out: 0.026 $\pm$ 0.000 χ^2 /NDF: 7790861.9/30

Left In: 0.019 $\pm$ 0.000 χ^2 /NDF: 858216.8/22

Left: 0.019 $\pm$ 0.000 χ^2 /NDF: 1563699.1/47

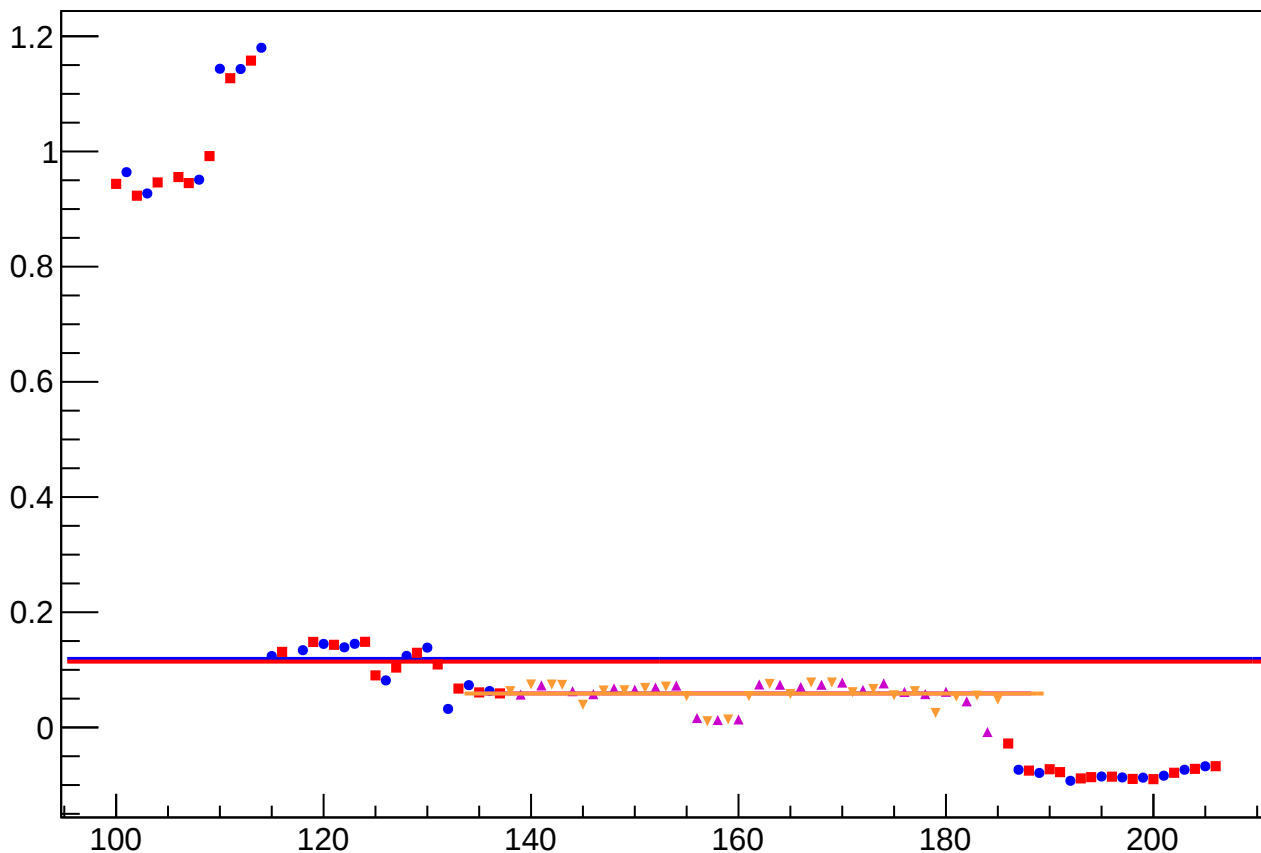
Right: 0.025 $\pm$ 0.000 χ^2 /NDF: 14560647.4/56

In: 0.021 $\pm$ 0.000 χ^2 /NDF: 7942757.1/48

Out: 0.021 $\pm$ 0.000 χ^2 /NDF: 9425531.7/55

All: 0.021 $\pm$ 0.000 χ^2 /NDF: 17370148.4/104

yield_bpm4ecY_mean vs Slug, Sign Corrected



Right In: 0.119+/-0.000 χ^2/NDF : 7842316497.6/25

Left Out: 0.059+/-0.000 χ^2/NDF : 46821236.8/24

Right Out: 0.114+/-0.000 χ^2/NDF : 8984057615.2/30

Left In: 0.059+/-0.000 χ^2/NDF : 58518655.0/22

Left: 0.059+/-0.000 χ^2/NDF : 105343775.2/47

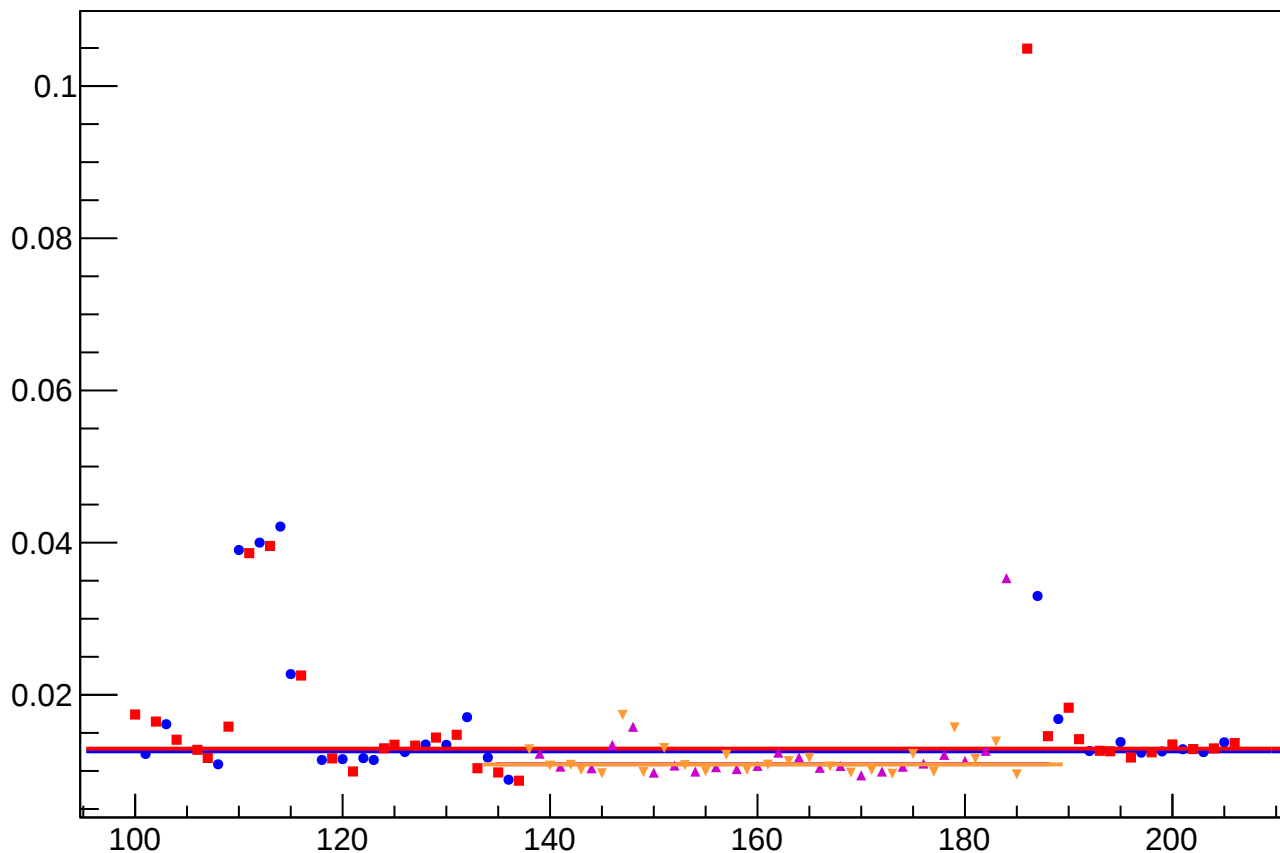
Right: 0.117+/-0.000 χ^2/NDF : 16827209698.5/56

In: 0.080+/-0.000 χ^2/NDF : 8071587962.6/48

Out: 0.079+/-0.000 χ^2/NDF : 9187965293.1/55

All: 0.079+/-0.000 χ^2/NDF : 17259808250.9/112

yield_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 1487353.9/25

Left Out: 0.011+/-0.000 χ^2/NDF : 604787.9/24

Right Out: 0.013+/-0.000 χ^2/NDF : 1898427.4/30

Left In: 0.011+/-0.000 χ^2/NDF : 530077.5/22

Left: 0.011+/-0.000 χ^2/NDF : 1134994.9/47

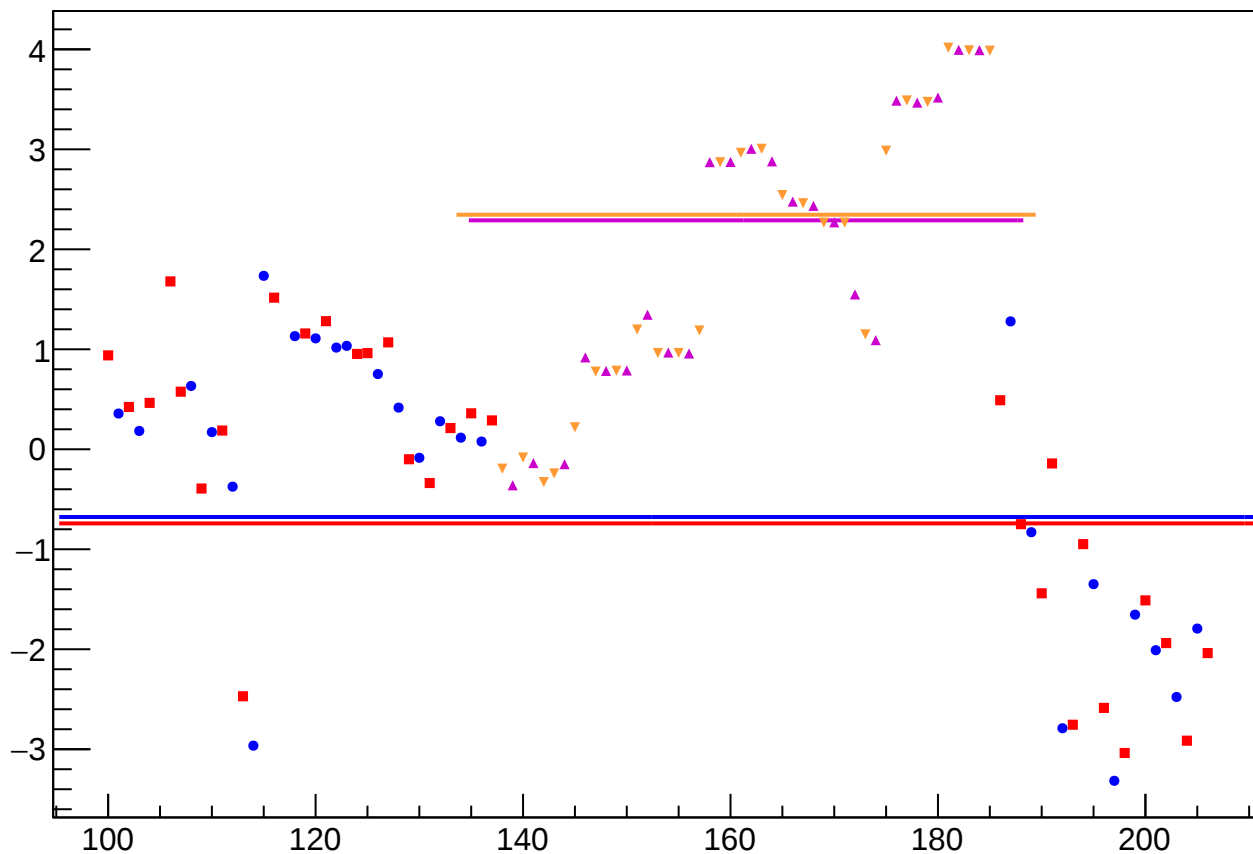
Right: 0.013+/-0.000 χ^2/NDF : 3394761.4/56

In: 0.011+/-0.000 χ^2/NDF : 2289559.7/48

Out: 0.012+/-0.000 χ^2/NDF : 2938805.6/55

All: 0.012+/-0.000 χ^2/NDF : 5230989.0/104

yield_bpm1X_mean vs Slug, Sign Corrected



Right In: -0.677 ± 0.000 $\chi^2/\text{NDF}: 5866768371.7/25$

Left Out: 2.346 ± 0.000 $\chi^2/\text{NDF}: 63481331015.4/24$

Right Out: -0.741 ± 0.000 $\chi^2/\text{NDF}: 7592120533.9/30$

Left In: 2.290 ± 0.000 $\chi^2/\text{NDF}: 60875537647.3/22$

Left: 2.318 ± 0.000 $\chi^2/\text{NDF}: 124438674298.4/47$

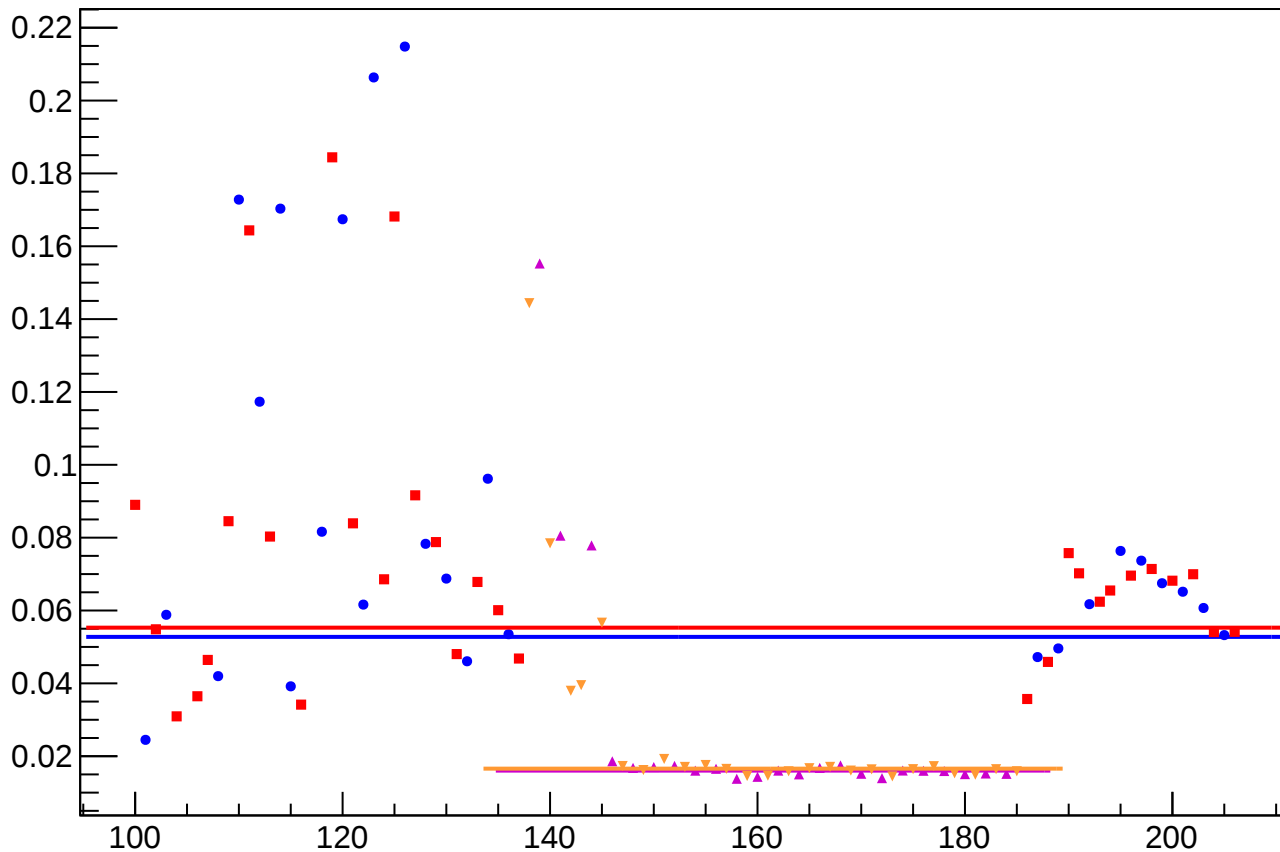
Right: -0.711 ± 0.000 $\chi^2/\text{NDF}: 13466020216.5/56$

In: 2.112 ± 0.000 $\chi^2/\text{NDF}: 93977771763.8/48$

Out: 2.136 ± 0.000 $\chi^2/\text{NDF}: 104048856442.0/55$

All: 2.124 ± 0.000 $\chi^2/\text{NDF}: 198042218190.0$

yield_bpm1X_rms vs Slug, Sign Corrected



Right In: 0.053+/-0.000 χ^2/NDF : 3499898.2/25

Left Out: 0.017+/-0.000 χ^2/NDF : 2621162.1/24

Right Out: 0.055+/-0.000 χ^2/NDF : 2837186.3/30

Left In: 0.016+/-0.000 χ^2/NDF : 2394376.5/22

Left: 0.016+/-0.000 χ^2/NDF : 5030430.5/47

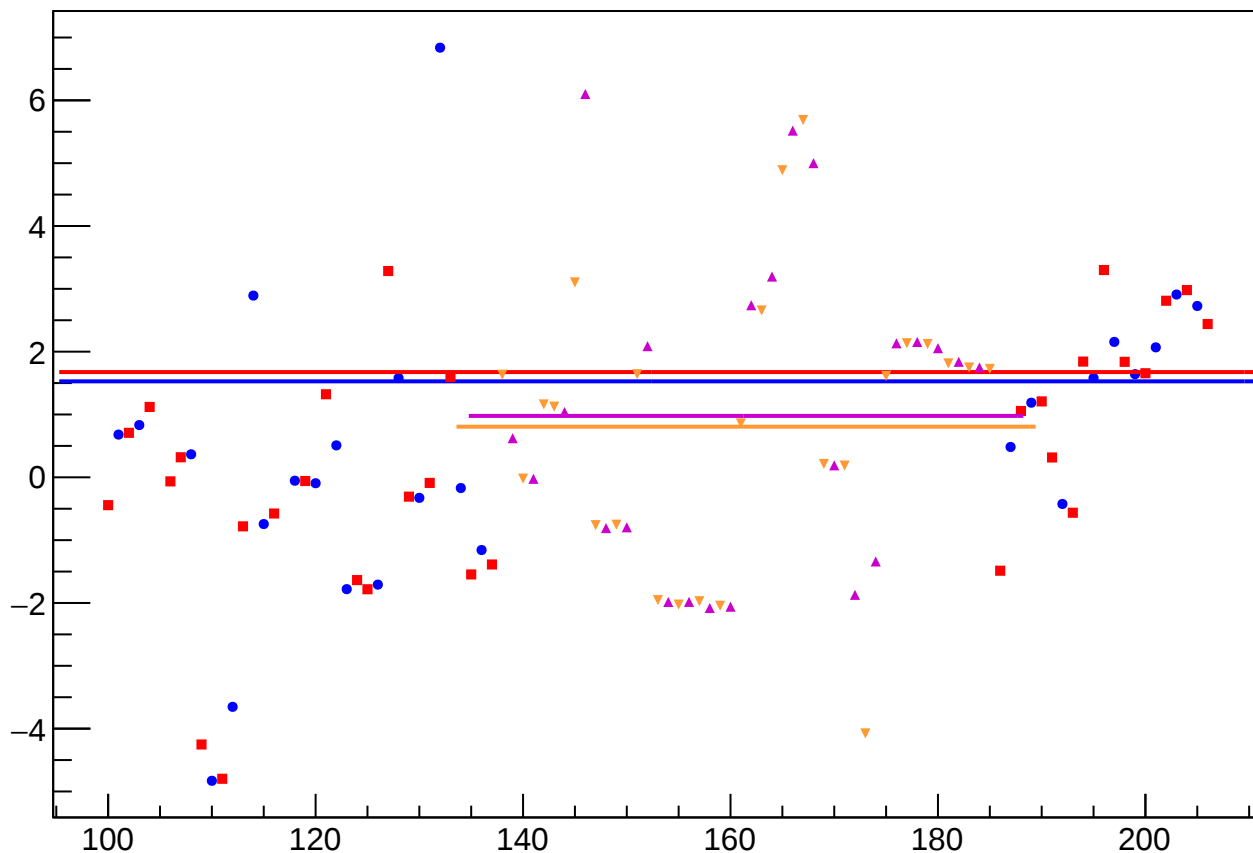
Right: 0.054+/-0.000 χ^2/NDF : 6359492.5/56

In: 0.018+/-0.000 χ^2/NDF : 14233608.8/48

Out: 0.019+/-0.000 χ^2/NDF : 15824656.1/55

All: 0.019+/-0.000 χ^2/NDF : 30110556.4/104

yield_bpm1Y_mean vs Slug, Sign Corrected



Right In: 1.528 $\pm$ 0.000

χ^2 /NDF: 30159757507.5/25

Left: 0.892 $\pm$ 0.000 χ^2 /NDF: 1077036497291.8/47

Right: 1.607 $\pm$ 0.000 χ^2 /NDF: 63724276556.1/56

Left Out: 0.806 $\pm$ 0.000

χ^2 /NDF: 507578952196.2/24

In: 1.076 $\pm$ 0.000 χ^2 /NDF: 602980166629.6/48

Right Out: 1.675 $\pm$ 0.000

χ^2 /NDF: 33345815951.1/30

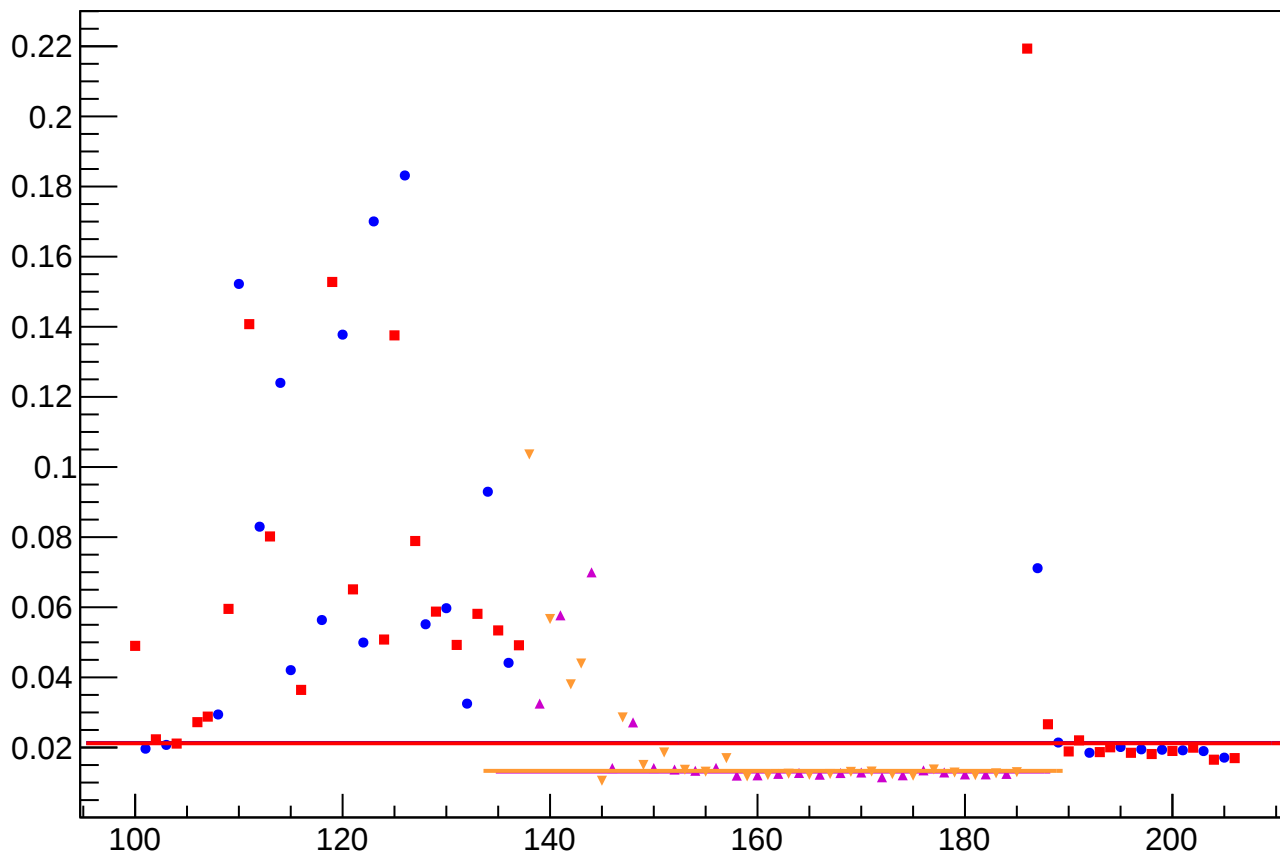
Out: 0.984 $\pm$ 0.000 χ^2 /NDF: 554031512711.7/55

Left In: 0.977 $\pm$ 0.000

χ^2 /NDF: 568209676597.4/22

All: 1.029 $\pm$ 0.000 χ^2 /NDF: 1157458540145.

yield_bpm1Y_rms vs Slug, Sign Corrected



Right In: 0.021+/-0.000 χ^2/NDF : 3875349.5/25

Left Out: 0.013+/-0.000 χ^2/NDF :2829753.9/24

Right Out: 0.021+/-0.000 χ^2/NDF : 5029909.7/30

Left In: 0.013+/-0.000 χ^2/NDF :1946693.6/22

Left: 0.013+/-0.000 χ^2/NDF : 4779900.3/47

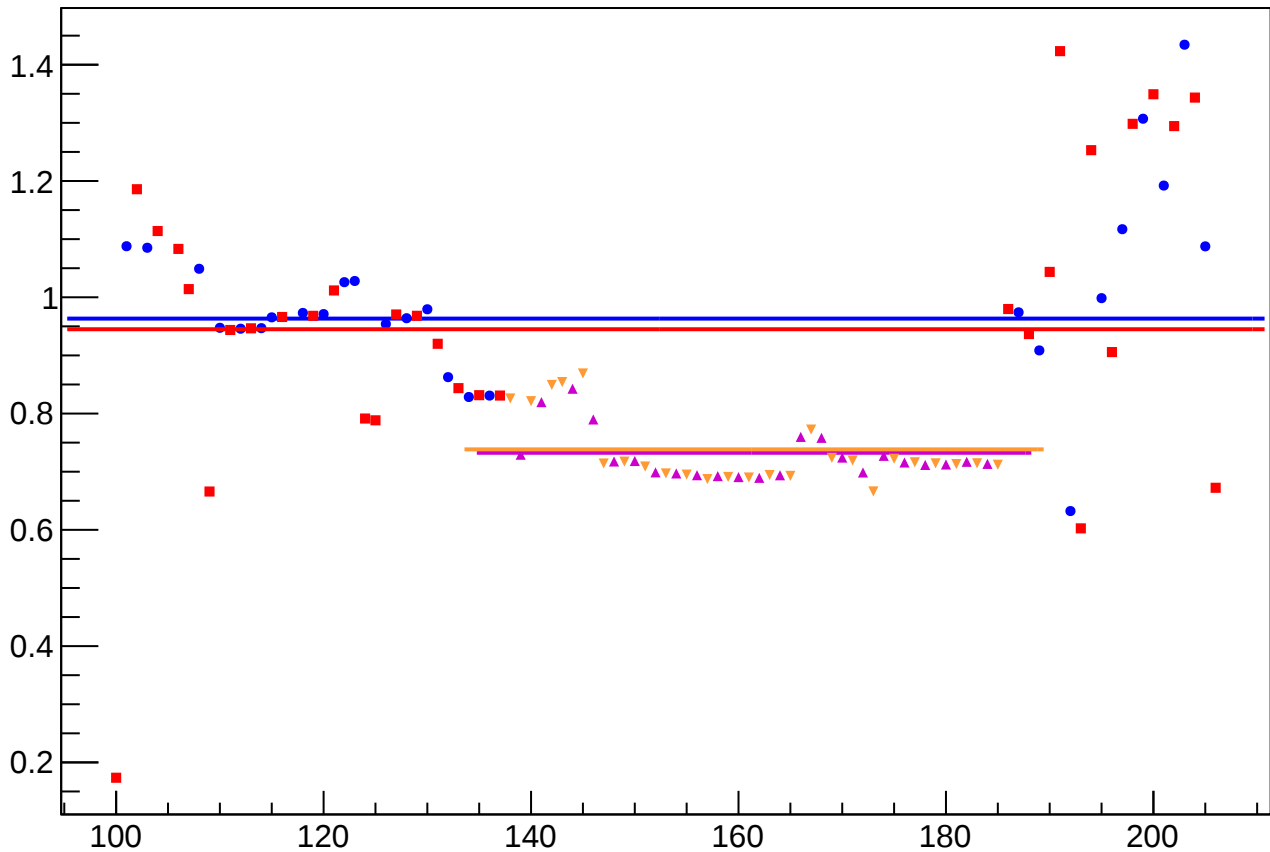
Right: 0.021+/-0.000 χ^2/NDF : 8905389.4/56

In: 0.015+/-0.000 χ^2/NDF :7847956.2/48

Out: 0.015+/-0.000 χ^2/NDF :10009559.3/55

All: 0.015+/-0.000 χ^2/NDF : 17870440.1/104

yield_bpm11X_mean vs Slug, Sign Corrected



Right In: 0.963 $\pm$ 0.000 χ^2 /NDF: 576630257.9/25

Left Out: 0.738 $\pm$ 0.000 χ^2 /NDF: 310195180.4/24

Right Out: 0.945 $\pm$ 0.000 χ^2 /NDF: 1053147885.9/30

Left In: 0.733 $\pm$ 0.000 χ^2 /NDF: 170102394.7/22

Left: 0.736 $\pm$ 0.000 χ^2 /NDF: 481708989.2/47

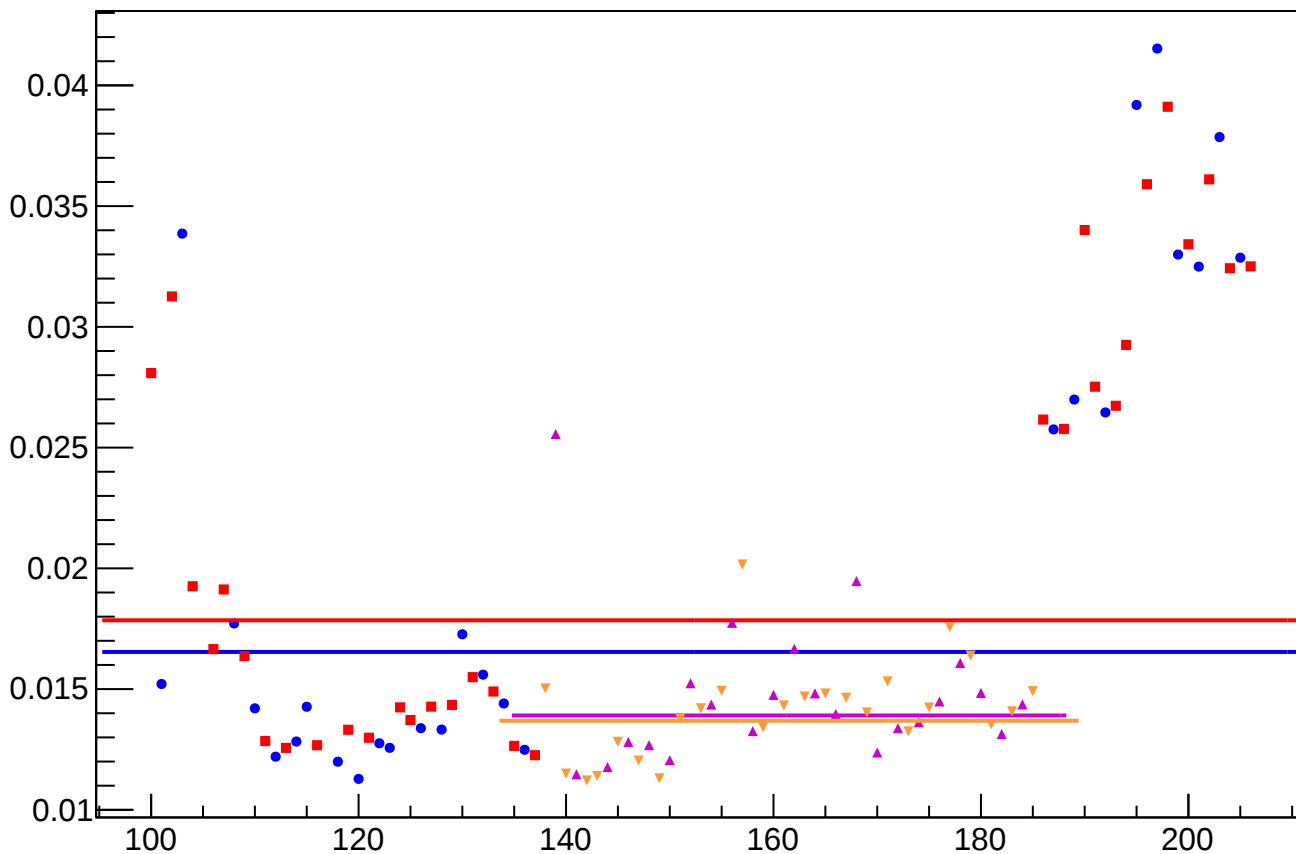
Right: 0.954 $\pm$ 0.000 χ^2 /NDF: 1635936763.5/56

In: 0.805 $\pm$ 0.000 χ^2 /NDF: 2079300008.1/48

Out: 0.801 $\pm$ 0.000 χ^2 /NDF: 2471755389.1/55

All: 0.803 $\pm$ 0.000 χ^2 /NDF: 4552186543.9/10

yield_bpm11X_rms vs Slug, Sign Corrected



Right In: 0.017+/-0.000 χ^2/NDF : 4019984.8/25

Left Out: 0.014+/-0.000 χ^2/NDF : 528480.6/24

Right Out: 0.018+/-0.000 χ^2/NDF : 4037262.0/30

Left In: 0.014+/-0.000 χ^2/NDF : 768161.9/22

Left: 0.014+/-0.000 χ^2/NDF : 1300553.4/47

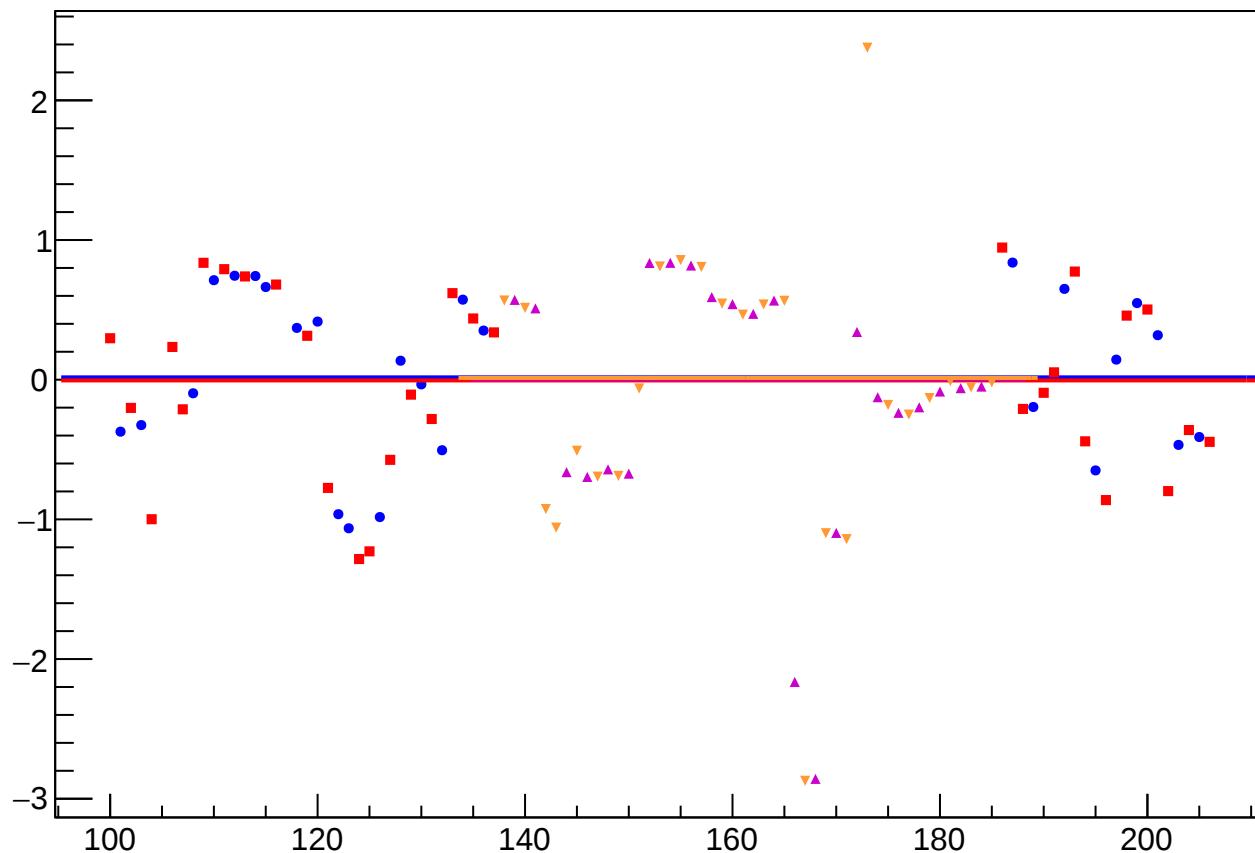
Right: 0.017+/-0.000 χ^2/NDF : 8120395.6/56

In: 0.015+/-0.000 χ^2/NDF : 5134735.9/48

Out: 0.015+/-0.000 χ^2/NDF : 5463823.9/55

All: 0.015+/-0.000 χ^2/NDF : 10603784.7/104

yield_bpm11Y_mean vs Slug, Sign Corrected



Right In: 0.017+/-0.000 χ^2/NDF : 17918212385.1/25

Left Out: 0.012+/-0.000 χ^2/NDF : 96383858927.1/24

Right Out: -0.005+/-0.000 χ^2/NDF : 29568576866.4/30

Left In: 0.003+/-0.000 χ^2/NDF : 78826489573.0/22

Left: 0.008+/-0.000 χ^2/NDF : 175214894006.3/47

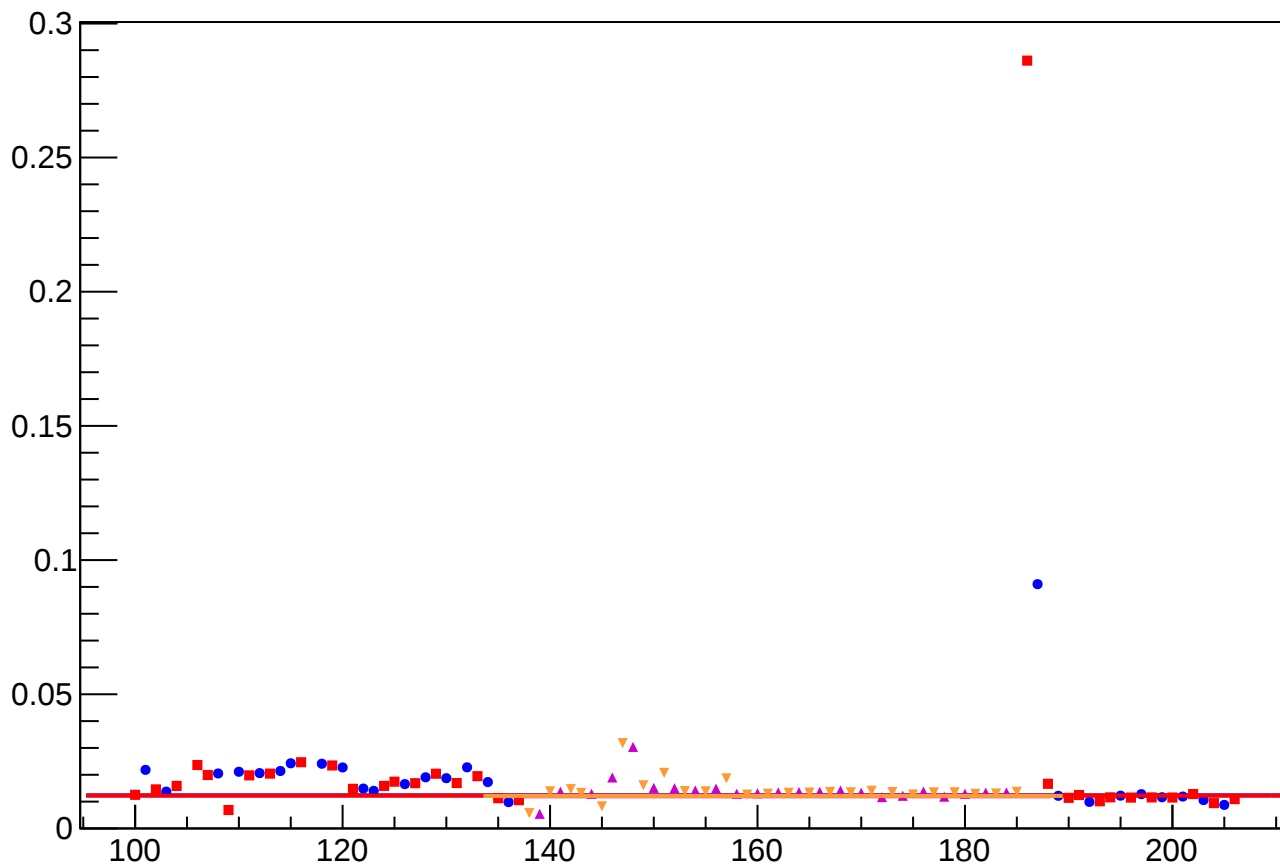
Right: 0.005+/-0.000 χ^2/NDF : 47505289110.9/56

In: 0.009+/-0.000 χ^2/NDF : 96752541146.7/48

Out: 0.005+/-0.000 χ^2/NDF : 125967035025.5/55

All: 0.007+/-0.000 χ^2/NDF : 222720937349.0

yield_bpm11Y_rms vs Slug, Sign Corrected



Right In: 0.012+/-0.000 χ^2/NDF : 2233042.7/25

Left Out: 0.012+/-0.000 χ^2/NDF :3105238.9/24

Right Out: 0.012+/-0.000 χ^2/NDF : 2679968.5/30

Left In: 0.012+/-0.000 χ^2/NDF :3003502.9/22

Left: 0.012+/-0.000 χ^2/NDF : 6110012.2/47

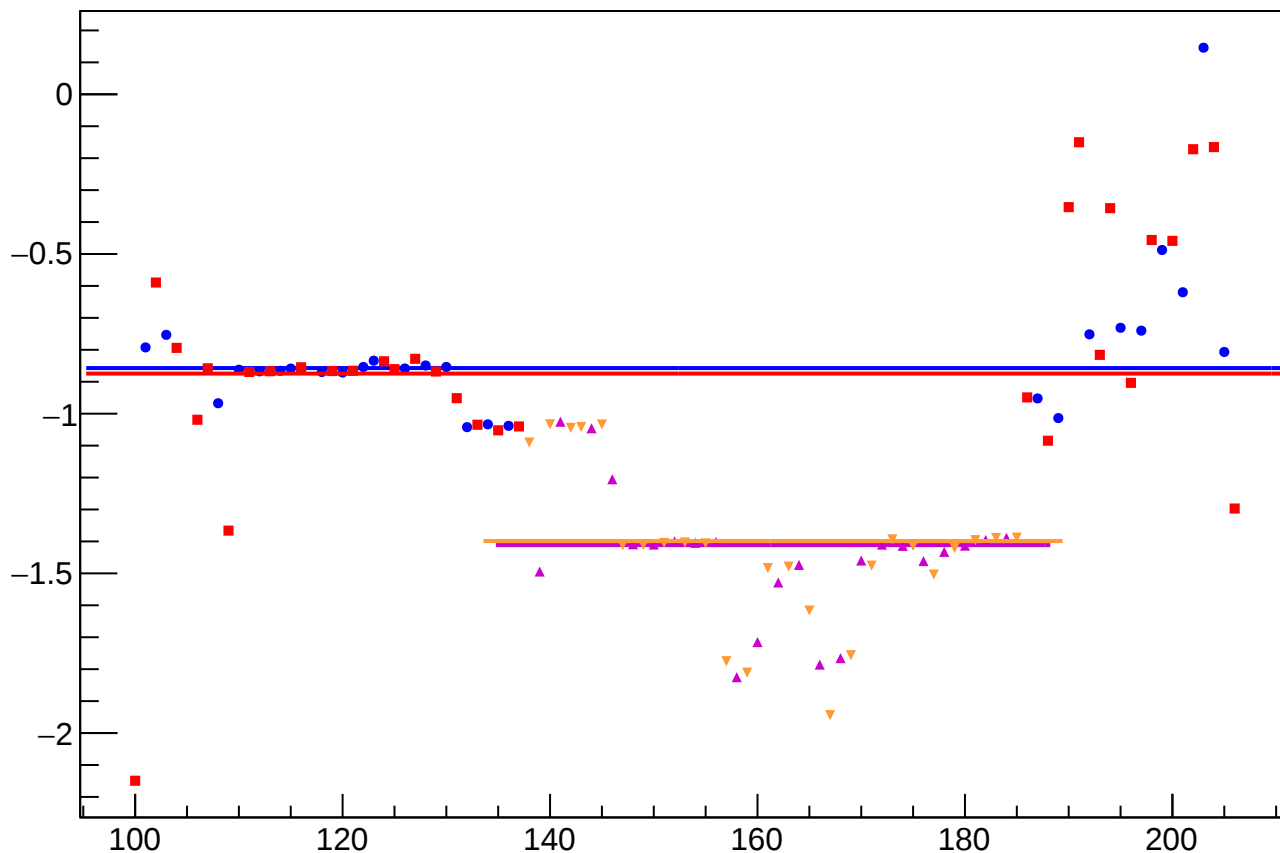
Right: 0.012+/-0.000 χ^2/NDF : 4913738.2/56

In: 0.012+/-0.000 χ^2/NDF :5246190.4/48

Out: 0.012+/-0.000 χ^2/NDF :5786809.8/55

All: 0.012+/-0.000 χ^2/NDF : 11033149.2/104

yield_bpm12X_mean vs Slug, Sign Corrected



Right In: -0.857 ± 0.000 $\chi^2/\text{NDF}: 170215323.7/25$

Left Out: -1.399 ± 0.000 $\chi^2/\text{NDF}: 738251911.1/24$

Right Out: -0.874 ± 0.000 $\chi^2/\text{NDF}: 394036492.1/30$

Left In: -1.411 ± 0.000 $\chi^2/\text{NDF}: 512547995.0/22$

Left: -1.405 ± 0.000 $\chi^2/\text{NDF}: 1251791467.1/47$

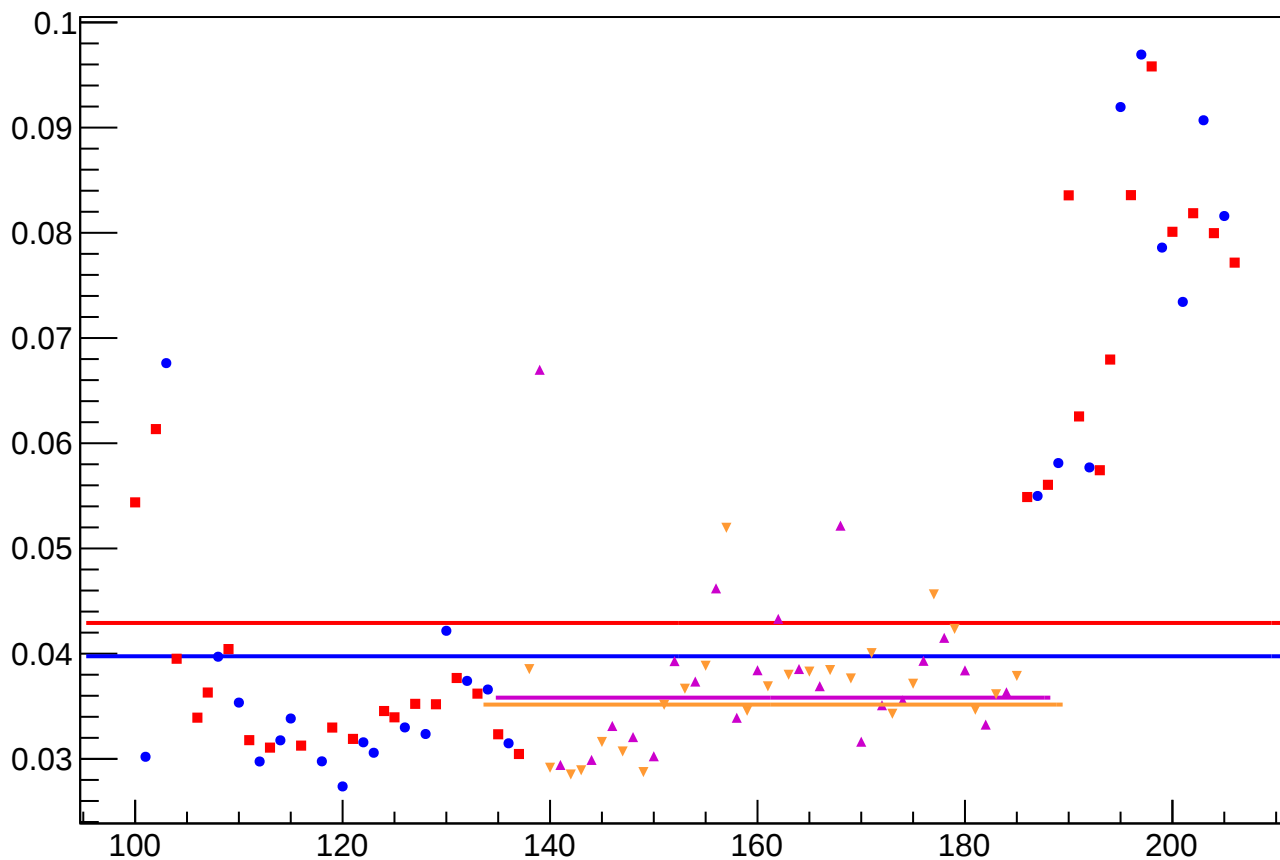
Right: -0.866 ± 0.000 $\chi^2/\text{NDF}: 565221097.7/56$

In: -1.217 ± 0.000 $\chi^2/\text{NDF}: 1964559282.0/48$

Out: -1.223 ± 0.000 $\chi^2/\text{NDF}: 2328620403.3/55$

All: -1.220 ± 0.000 $\chi^2/\text{NDF}: 4293481475.0/101$

yield_bpm12X_rms vs Slug, Sign Corrected



Right In: 0.040 $\pm$ 0.000 χ^2 /NDF: 3678131.7/25

Left Out: 0.035 $\pm$ 0.000 χ^2 /NDF:595219.5/24

Right Out: 0.043 $\pm$ 0.000 χ^2 /NDF: 3543048.9/30

Left In: 0.036 $\pm$ 0.000 χ^2 /NDF:864147.6/22

Left: 0.035 $\pm$ 0.000 χ^2 /NDF: 1464751.5/47

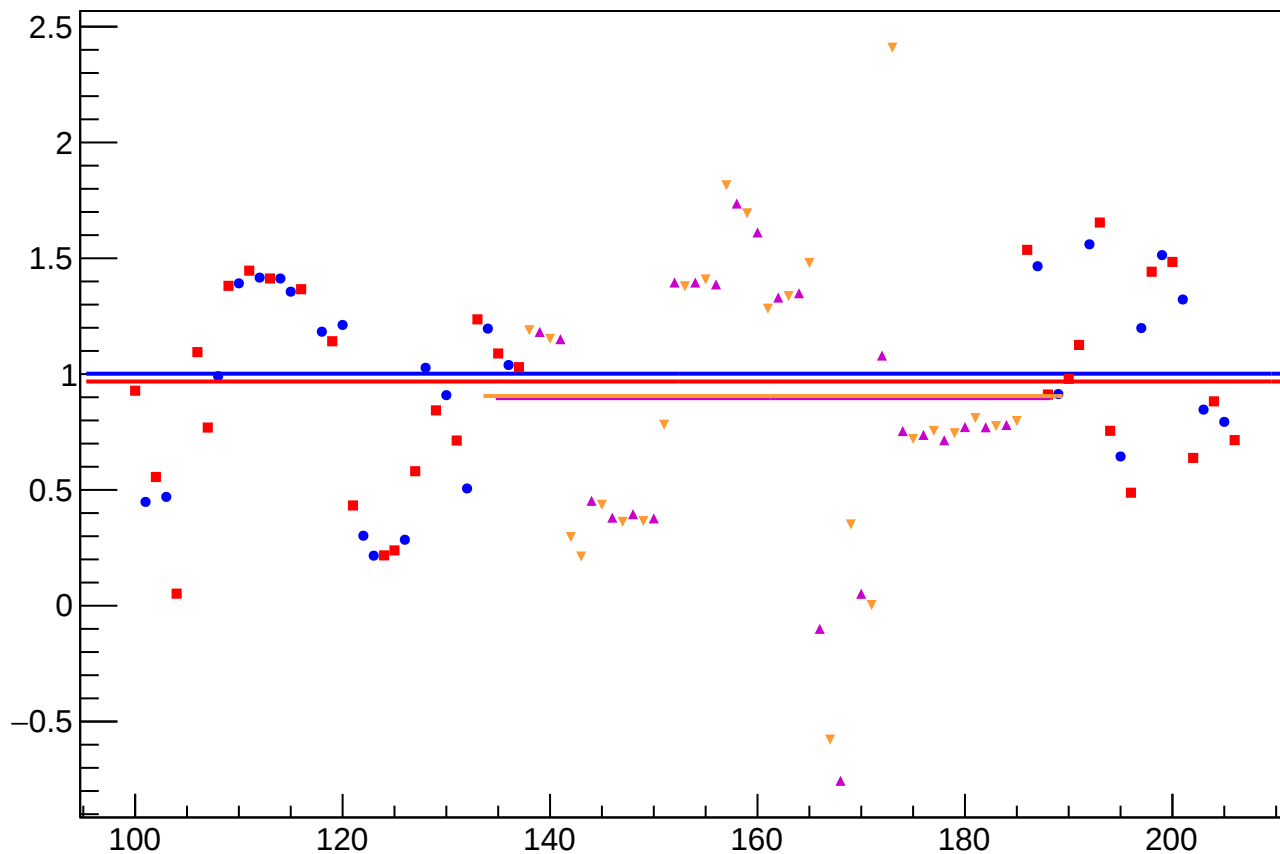
Right: 0.041 $\pm$ 0.000 χ^2 /NDF: 7286172.9/56

In: 0.037 $\pm$ 0.000 χ^2 /NDF:4671397.0/48

Out: 0.038 $\pm$ 0.000 χ^2 /NDF:4662006.5/55

All: 0.037 $\pm$ 0.000 χ^2 /NDF: 9339467.5/104

yield_bpm12Y_mean vs Slug, Sign Corrected



Right In: 1.002 $\pm$ 0.000

χ^2 /NDF: 20491208723.2/25

Left: 0.901 $\pm$ 0.000 χ^2 /NDF: 150868618084.6/47

Right: 0.984 $\pm$ 0.000 χ^2 /NDF: 47790647707.8/56

Left Out: 0.905 $\pm$ 0.000

χ^2 /NDF: 84265726513.8/24

In: 0.944 $\pm$ 0.000 χ^2 /NDF: 88116413256.1/48

Right Out: 0.968 $\pm$ 0.000

χ^2 /NDF: 27199449704.6/30

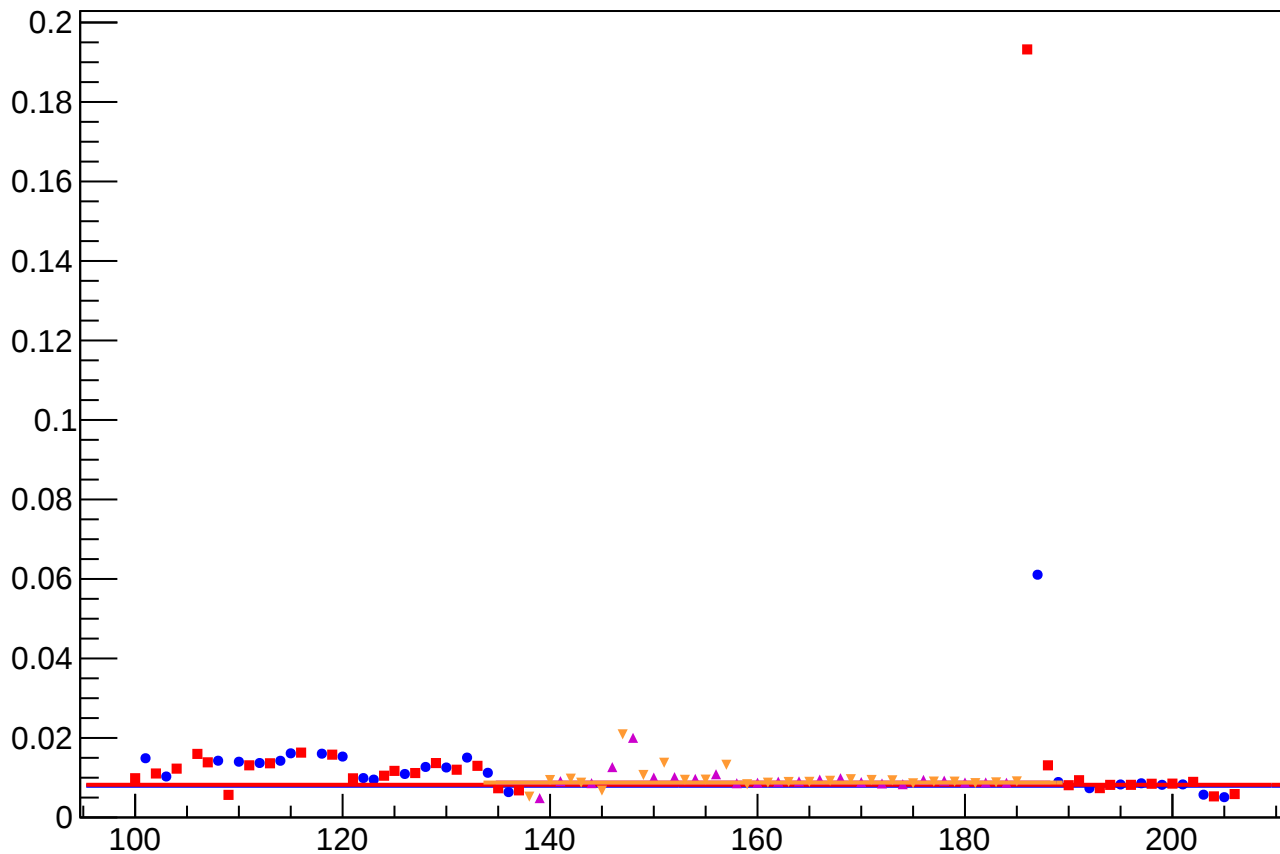
Out: 0.934 $\pm$ 0.000 χ^2 /NDF: 111856722680.7/55

Left In: 0.896 $\pm$ 0.000

χ^2 /NDF: 66594200889.6/22

All: 0.939 $\pm$ 0.000 χ^2 /NDF: 199992813008.9

yield_bpm12Y_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 2761998.5/25

Left Out: 0.009+/-0.000 χ^2/NDF :1697568.1/24

Right Out: 0.008+/-0.000 χ^2/NDF : 3111694.5/30

Left In: 0.009+/-0.000 χ^2/NDF :1607939.0/22

Left: 0.009+/-0.000 χ^2/NDF : 3305514.2/47

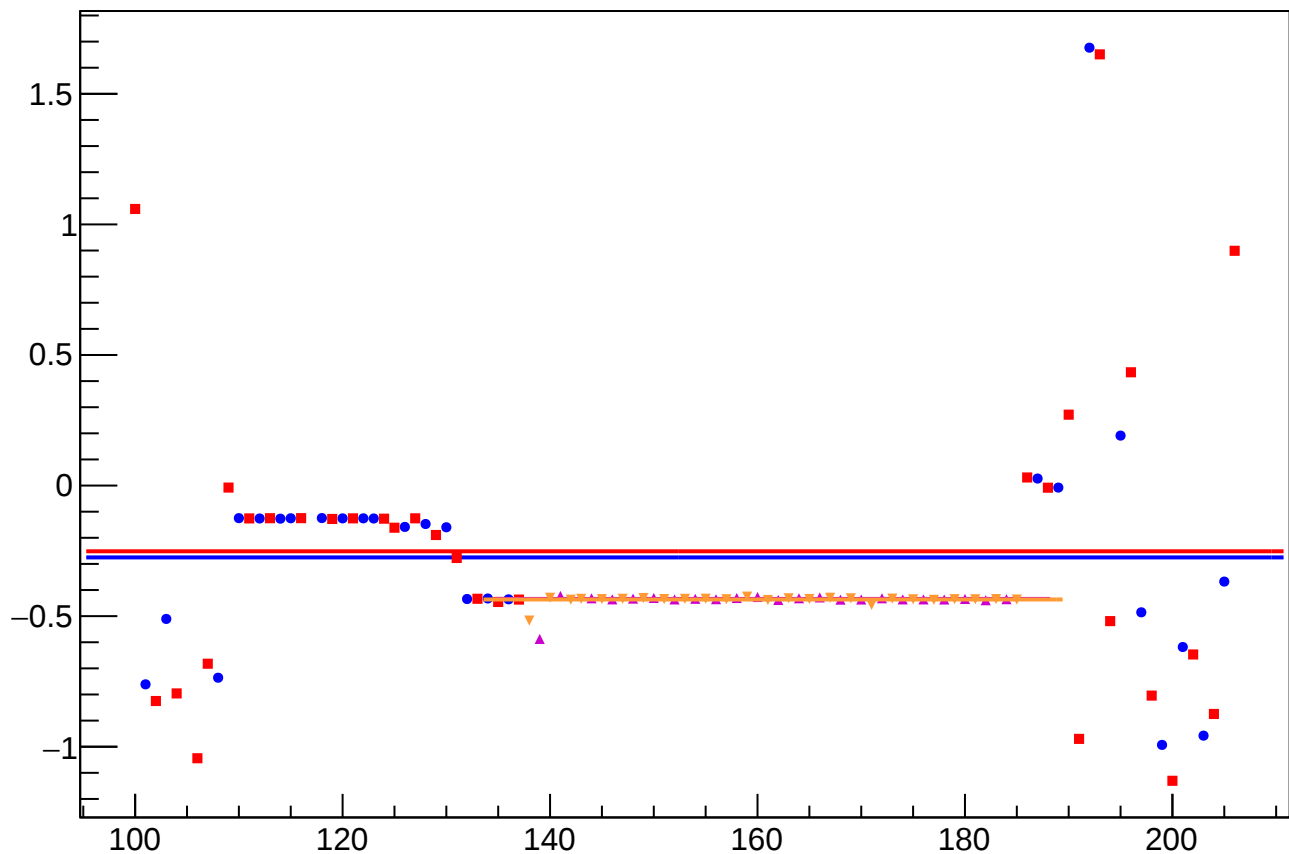
Right: 0.008+/-0.000 χ^2/NDF : 5884636.4/56

In: 0.008+/-0.000 χ^2/NDF :4488764.8/48

Out: 0.009+/-0.000 χ^2/NDF :4871077.0/55

All: 0.008+/-0.000 χ^2/NDF : 9364894.3/104

yield_bpm16X_mean vs Slug, Sign Corrected



Right In: -0.275 ± 0.000 $\chi^2/\text{NDF}: 2143177616.4/25$

Left Out: -0.436 ± 0.000 $\chi^2/\text{NDF}: 28774660.0/24$

Right Out: -0.252 ± 0.000 $\chi^2/\text{NDF}: 2660983279.4/30$

Left In: -0.434 ± 0.000 $\chi^2/\text{NDF}: 23984173.0/22$

Left: -0.435 ± 0.000 $\chi^2/\text{NDF}: 53122221.7/47$

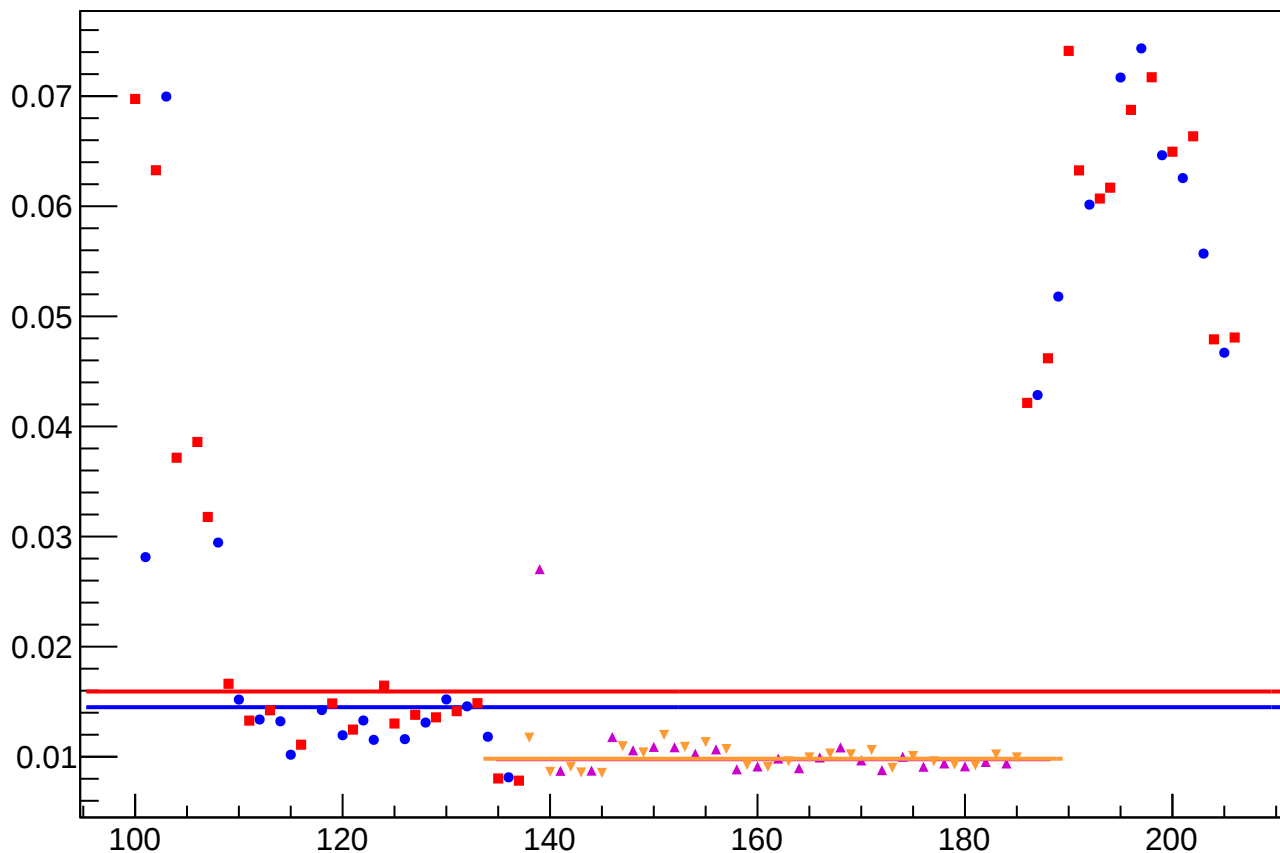
Right: -0.264 ± 0.000 $\chi^2/\text{NDF}: 4813220078.5/56$

In: -0.405 ± 0.000 $\chi^2/\text{NDF}: 2864682107.9/48$

Out: -0.406 ± 0.000 $\chi^2/\text{NDF}: 3604670043.7/55$

All: -0.405 ± 0.000 $\chi^2/\text{NDF}: 6469365268.4/1$

yield_bpm16X_rms vs Slug, Sign Corrected



Right In: 0.015 $\pm$ 0.000 χ^2/NDF : 8984225.5/25

Left Out: 0.010 $\pm$ 0.000 χ^2/NDF :269242.6/24

Right Out: 0.016 $\pm$ 0.000 χ^2/NDF : 10615049.1/30

Left In: 0.010 $\pm$ 0.000 χ^2/NDF :747550.0/22

Left: 0.010 $\pm$ 0.000 χ^2/NDF : 1017115.3/47

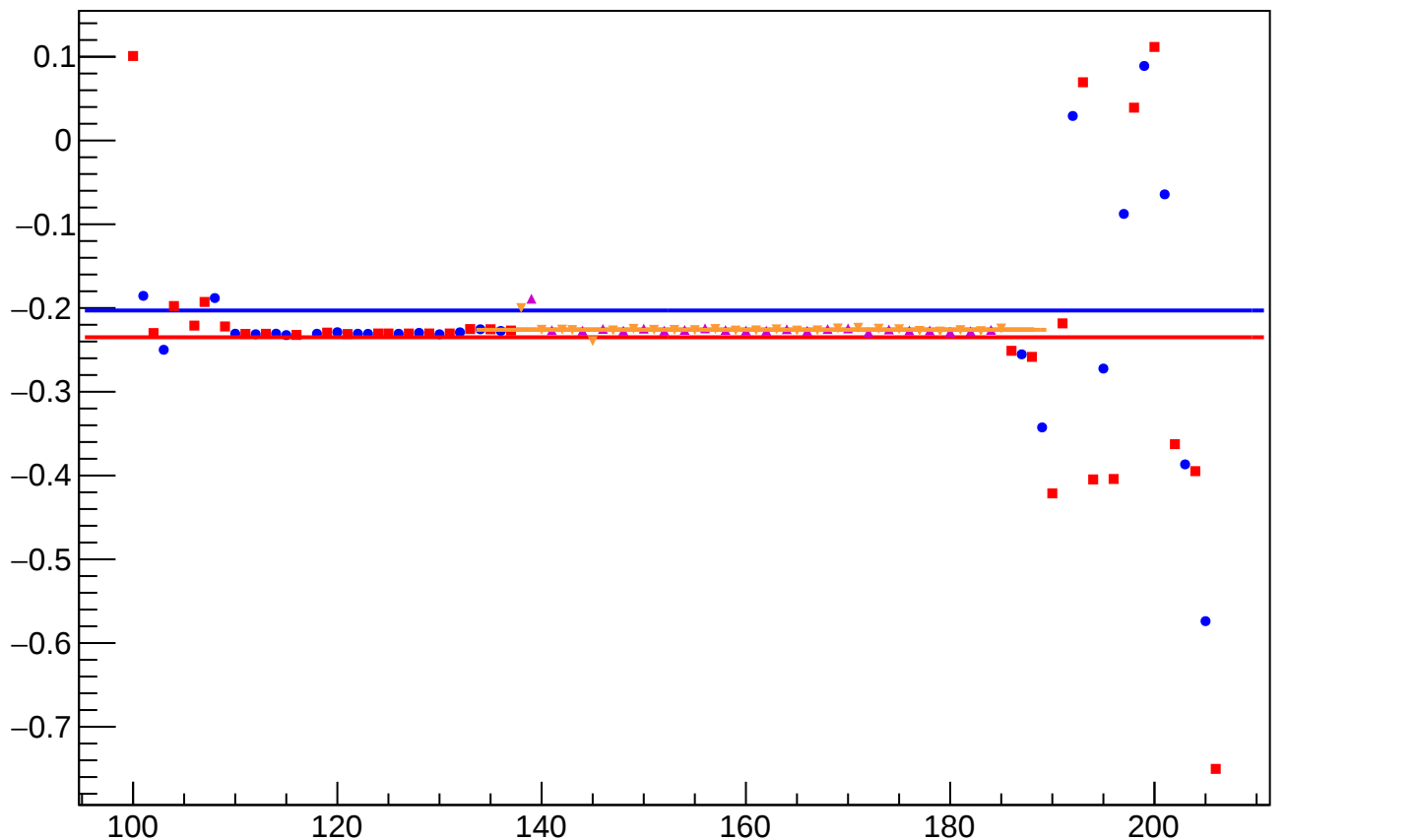
Right: 0.015 $\pm$ 0.000 χ^2/NDF : 19666117.4/56

In: 0.011 $\pm$ 0.000 χ^2/NDF :10965492.4/48

Out: 0.011 $\pm$ 0.000 χ^2/NDF :12887208.3/55

All: 0.011 $\pm$ 0.000 χ^2/NDF : 23860356.3/104

yield_bpm16Y_mean vs Slug, Sign Corrected



Right In: -0.203+/-0.000 χ^2/NDF : 7600111179.8/25

Left Out: -0.226+/-0.000 χ^2/NDF : 21205667.4/24

Right Out: -0.235+/-0.000 χ^2/NDF : 13480447369.2/30

Left In: -0.226+/-0.000 χ^2/NDF : 15245251.1/22

Left: -0.226+/-0.000 χ^2/NDF : 36480793.2/47

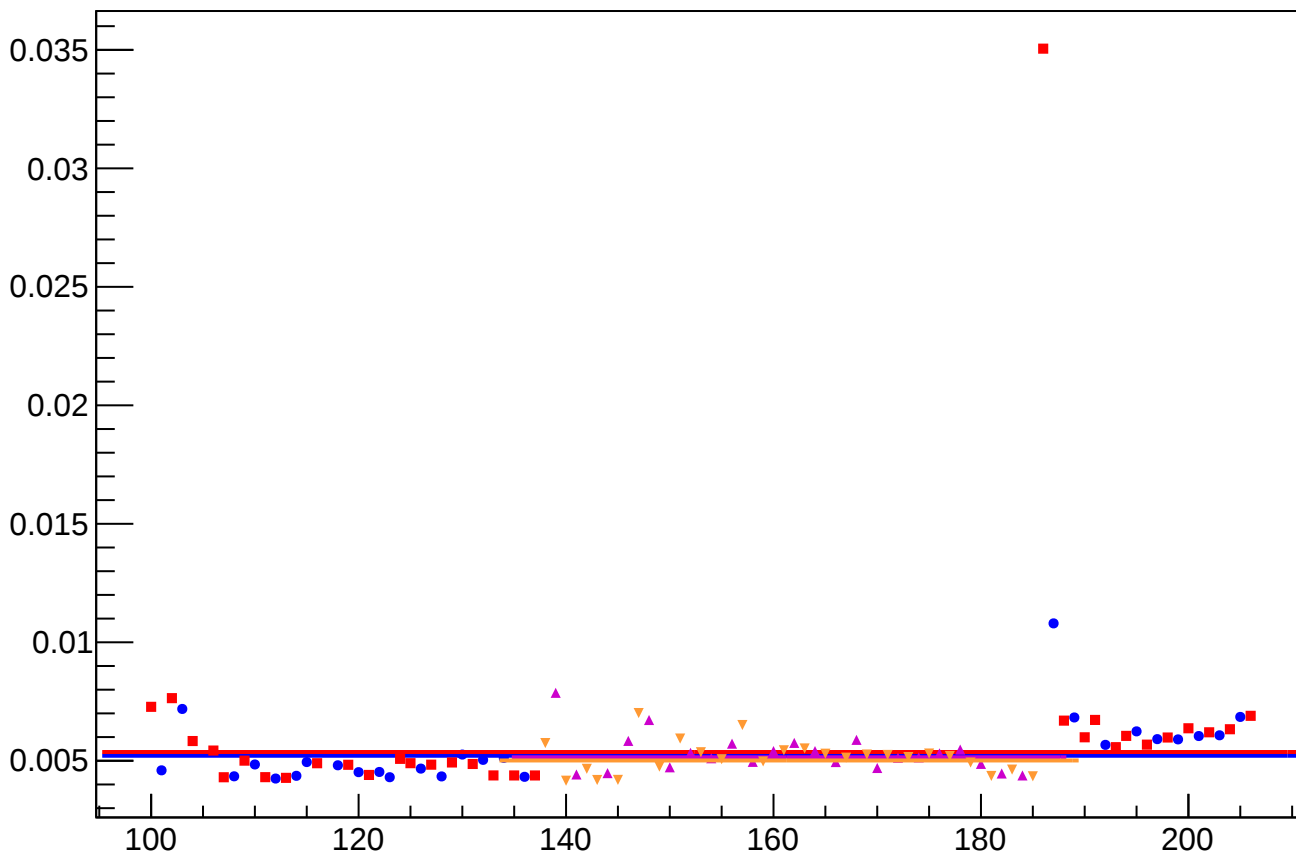
Right: -0.220+/-0.000 χ^2/NDF : 21310474303.4/56

In: -0.216+/-0.000 χ^2/NDF : 7746879684.6/48

Out: -0.230+/-0.000 χ^2/NDF : 13523725079.2/55

All: -0.223+/-0.000 χ^2/NDF : 21368067527.8/102

yield_bpm16Y_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 702424.9/25

Left Out: 0.005+/-0.000 χ^2/NDF : 530632.6/24

Right Out: 0.005+/-0.000 χ^2/NDF : 1255335.4/30

Left In: 0.005+/-0.000 χ^2/NDF : 493107.7/22

Left: 0.005+/-0.000 χ^2/NDF : 1035156.6/47

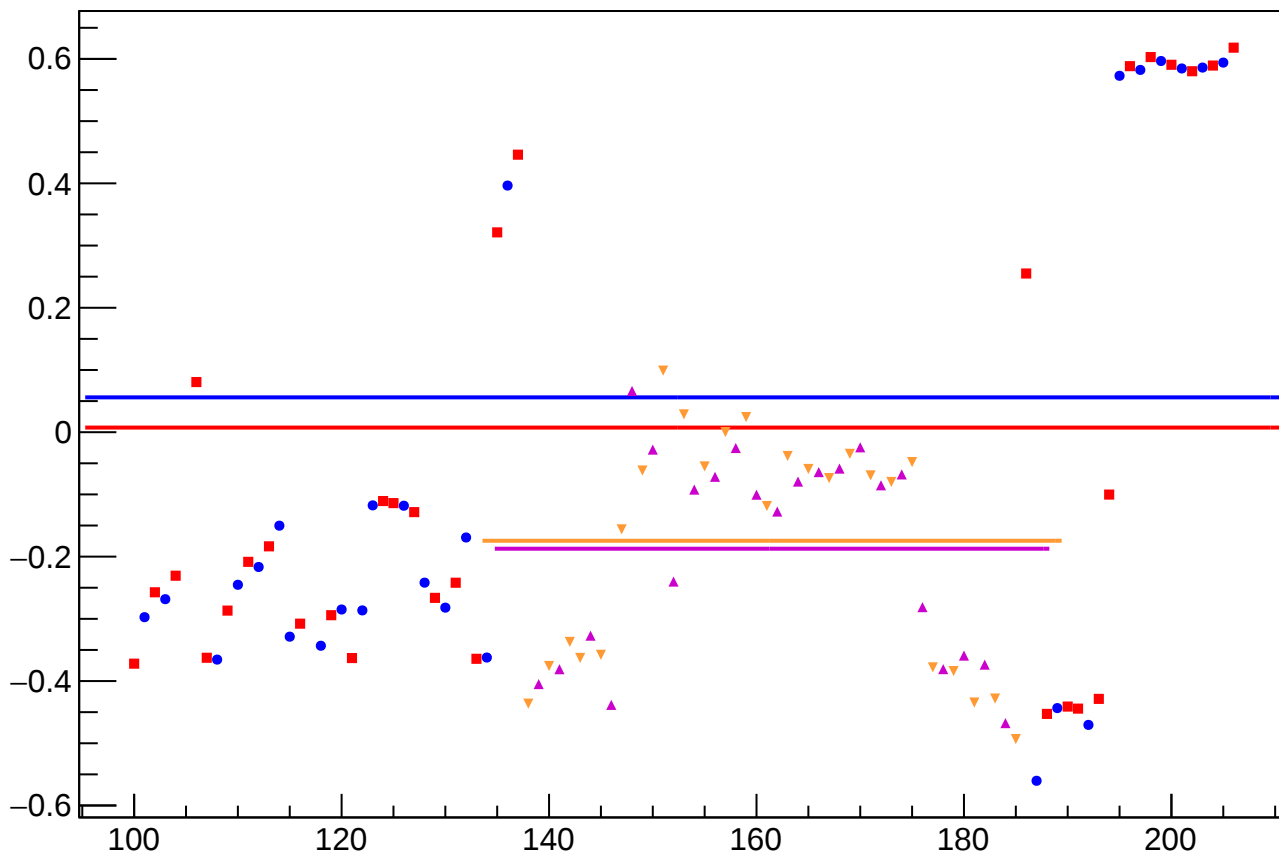
Right: 0.005+/-0.000 χ^2/NDF : 1968912.1/56

In: 0.005+/-0.000 χ^2/NDF : 1197760.8/48

Out: 0.005+/-0.000 χ^2/NDF : 1856651.3/55

All: 0.005+/-0.000 χ^2/NDF : 3054669.9/104

yield_bpm0i02X_mean vs Slug, Sign Corrected



Right In: 0.056+/-0.000

χ^2/NDF : 52411010643.7/25

Left: -0.181+/-0.000

χ^2/NDF : 30888184231.6/47

Left Out: -0.174+/-0.000

χ^2/NDF : 18025533236.1/24

Right: 0.030+/-0.000

χ^2/NDF : 107382102144.1/56

Right Out: 0.007+/-0.000

χ^2/NDF : 54624792519.0/30

In: -0.107+/-0.000

χ^2/NDF : 75979250000.8/48

Out: -0.110+/-0.000

χ^2/NDF : 79458530445.7/55

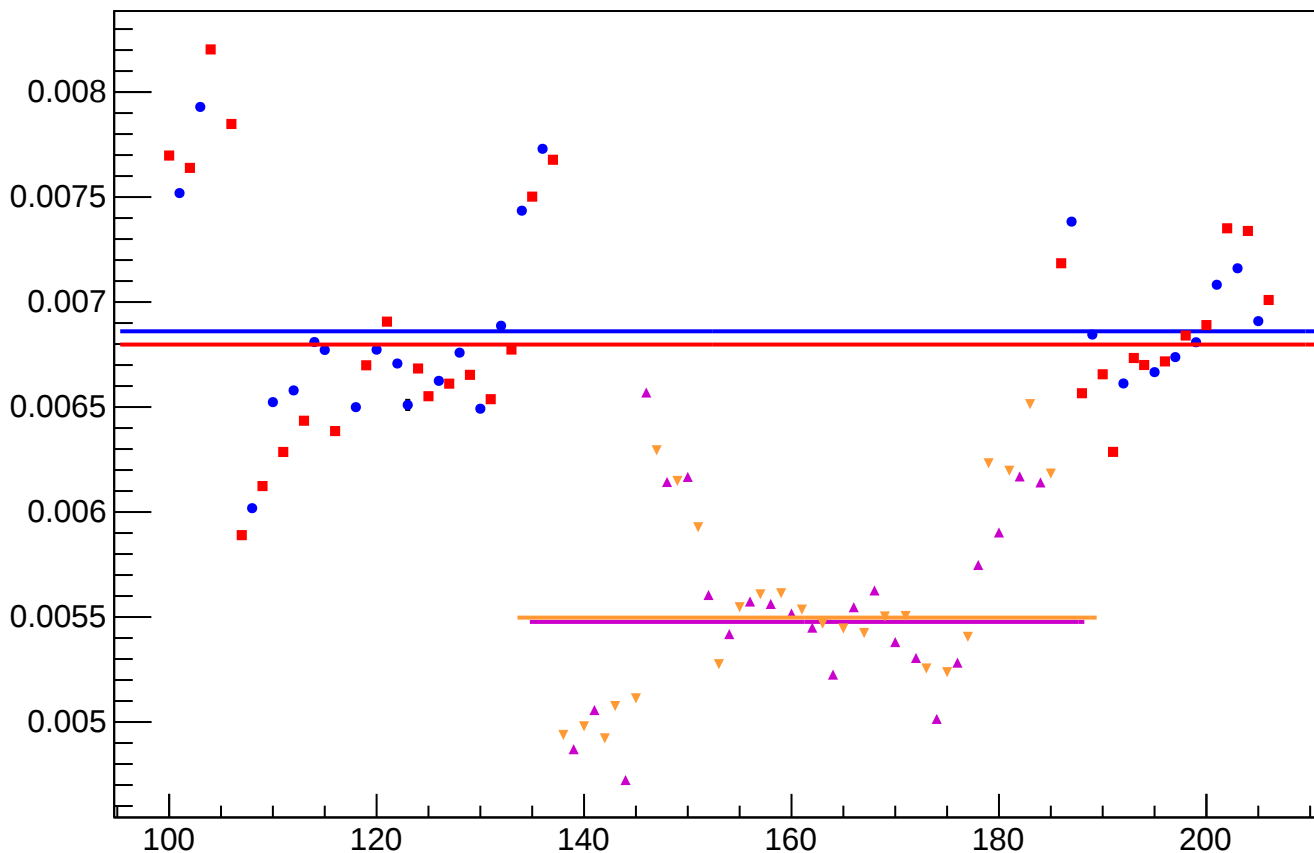
Left In: -0.187+/-0.000

χ^2/NDF : 12816646575.4/22

All: -0.108+/-0.000

χ^2/NDF : 155442203033.8

yield_bpm0i02X_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 89089.4/25

Left Out: 0.005+/-0.000 χ^2/NDF :198746.4/24

Right Out: 0.007+/-0.000 χ^2/NDF : 130089.3/30

Left In: 0.005+/-0.000 χ^2/NDF :202181.4/22

Left: 0.005+/-0.000 χ^2/NDF : 401165.3/47

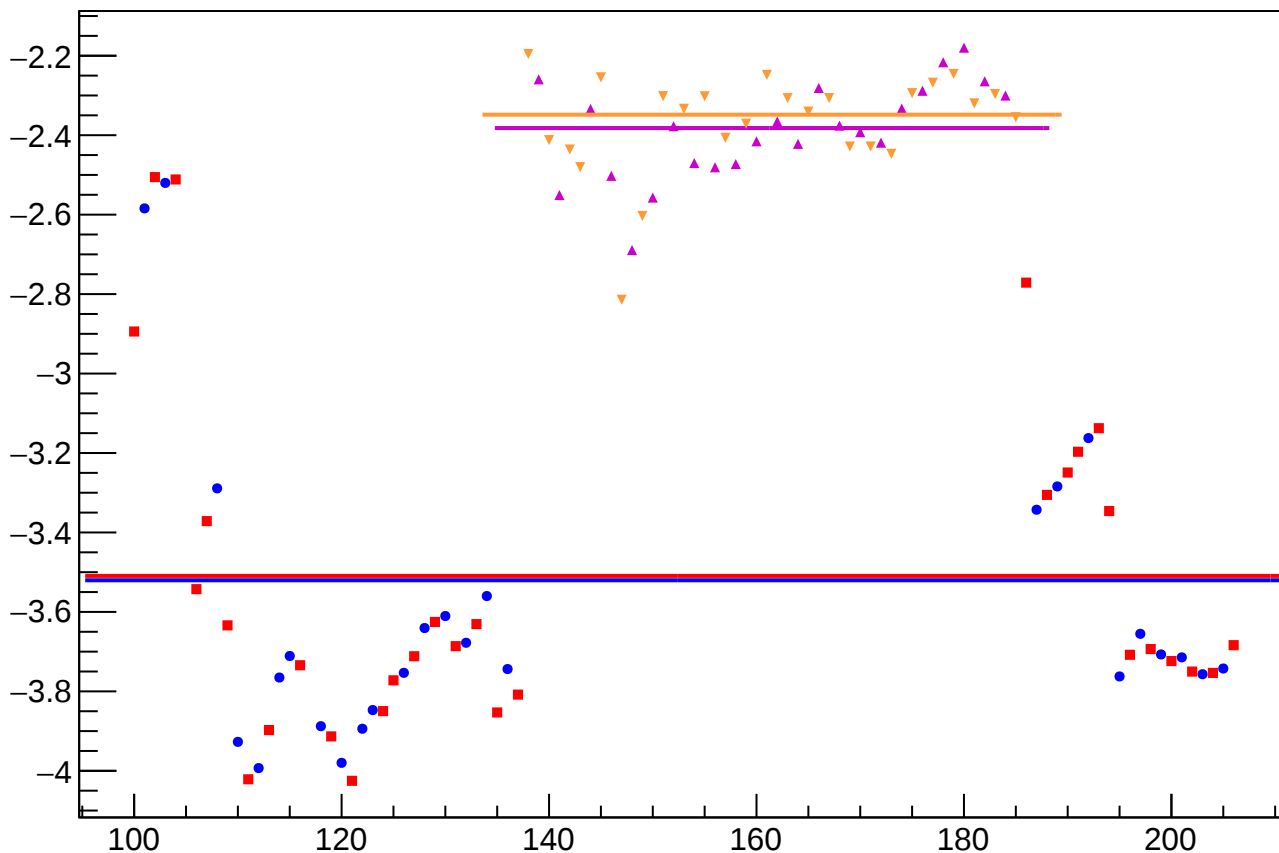
Right: 0.007+/-0.000 χ^2/NDF : 220348.6/56

In: 0.006+/-0.000 χ^2/NDF :987226.8/48

Out: 0.006+/-0.000 χ^2/NDF :1024478.7/55

All: 0.006+/-0.000 χ^2/NDF : 2012196.6/104

yield_bpm0i02Y_mean vs Slug, Sign Corrected



Right In: -3.520+/-0.000

χ^2/NDF : 29767038400.5/25

Left Out: -2.348+/-0.000

χ^2/NDF : 2158686333.4/24

Right Out: -3.509+/-0.000

χ^2/NDF : 30813075038.6/30

Left In: -2.382+/-0.000

χ^2/NDF : 2318395228.4/22

Left: -2.365+/-0.000

χ^2/NDF : 4600738143.2/47

Right: -3.515+/-0.000

χ^2/NDF : 60589308936.5/56

In: -2.842+/-0.000

χ^2/NDF : 143730647349.9/48

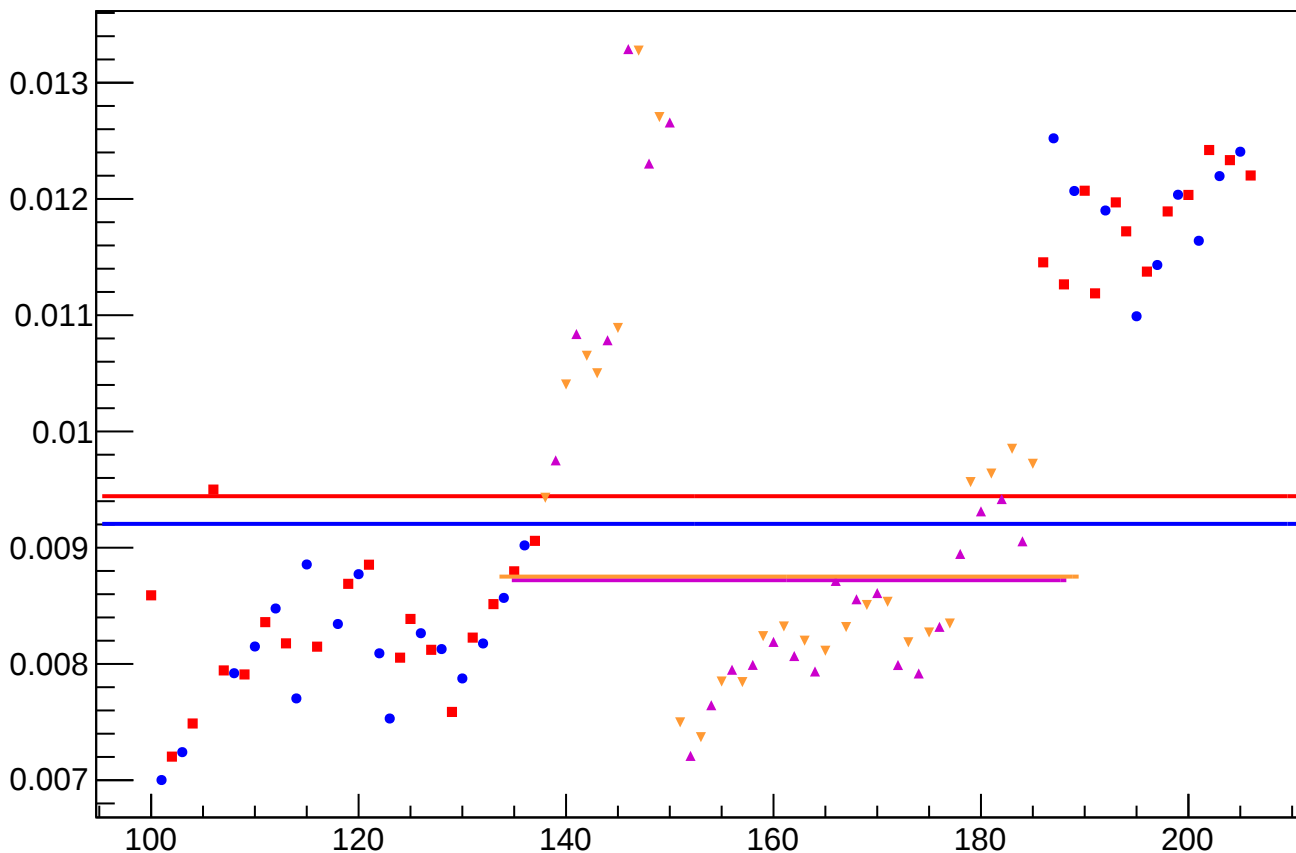
Out: -2.828+/-0.000

χ^2/NDF : 158318256935.5/55

All: -2.835+/-0.000

χ^2/NDF : 302081360052.7

yield_bpm0i02Y_rms vs Slug, Sign Corrected



Right In: 0.009+/-0.000 χ^2/NDF : 960893.0/25

Left Out: 0.009+/-0.000 χ^2/NDF :663672.8/24

Right Out: 0.009+/-0.000 χ^2/NDF : 1066242.5/30

Left In: 0.009+/-0.000 χ^2/NDF :747867.0/22

Left: 0.009+/-0.000 χ^2/NDF : 1411749.0/47

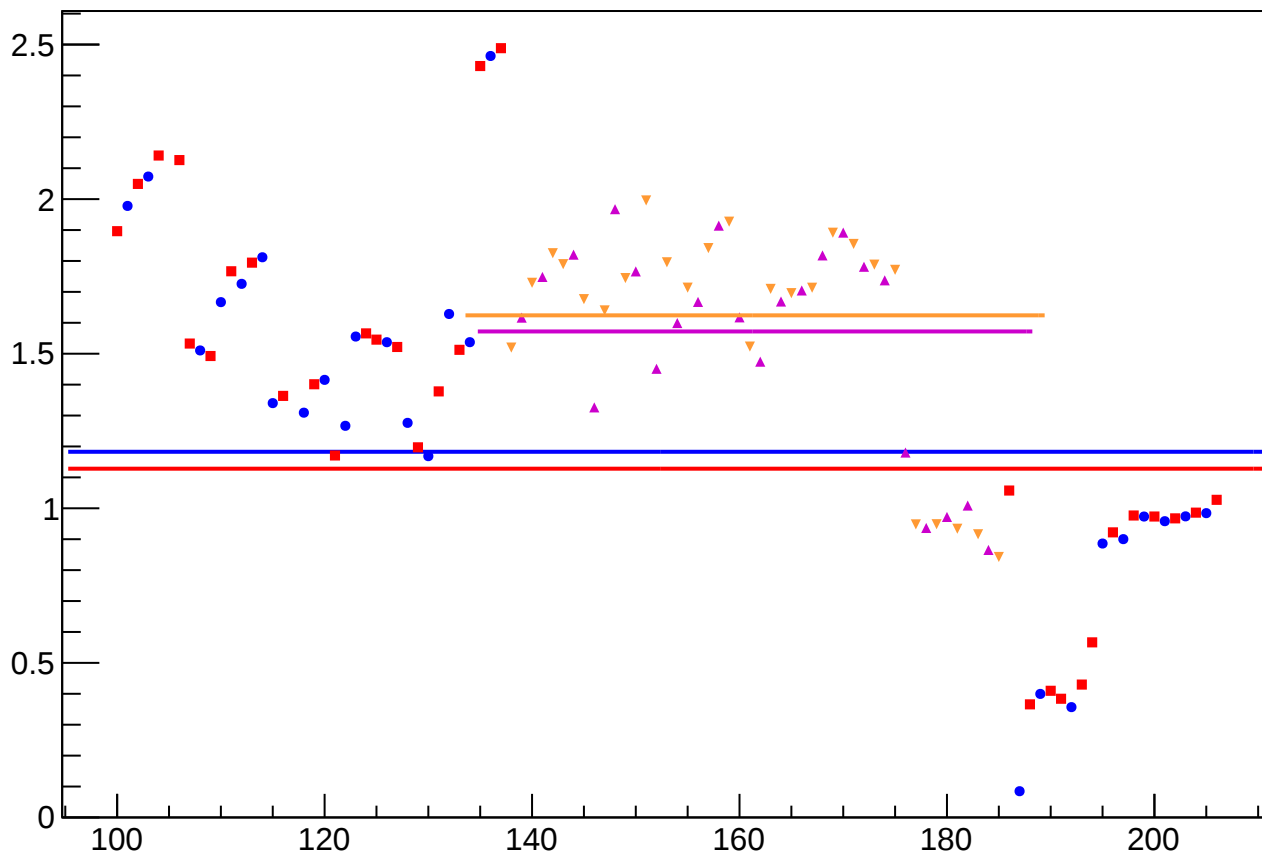
Right: 0.009+/-0.000 χ^2/NDF : 2035706.1/56

In: 0.009+/-0.000 χ^2/NDF :1749195.5/48

Out: 0.009+/-0.000 χ^2/NDF :1818882.5/55

All: 0.009+/-0.000 χ^2/NDF : 3573521.9/104

yield_bpm0i02aX_mean vs Slug, Sign Corrected



Right In: 1.183+/-0.000

χ^2/NDF : 27326283828.3/25

Left Out: 1.624+/-0.000

χ^2/NDF : 16631112386.4/24

Right Out: 1.128+/-0.000

χ^2/NDF : 32644225397.5/30

Left In: 1.572+/-0.000

χ^2/NDF : 14230484809.4/22

Left: 1.599+/-0.000

χ^2/NDF : 31067753064.6/47

Right: 1.153+/-0.000

χ^2/NDF : 60111260853.3/56

In: 1.428+/-0.000

χ^2/NDF : 49819460544.7/48

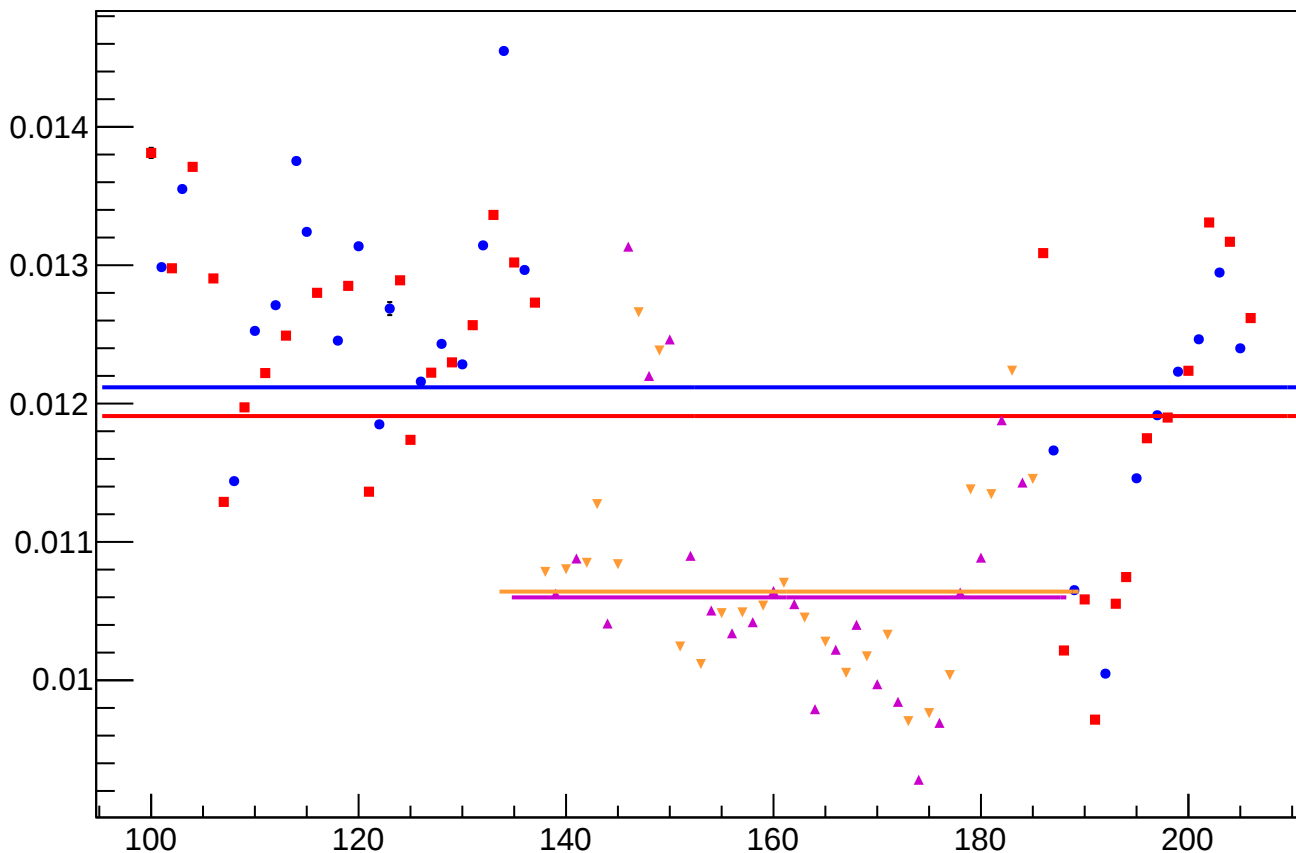
Out: 1.427+/-0.000

χ^2/NDF : 64556309789.6/55

All: 1.427+/-0.000

χ^2/NDF : 114376097268.0

yield_bpm0i02aX_rms vs Slug, Sign Corrected



Right In: 0.012+/-0.000 χ^2/NDF : 165238.7/25

Left Out: 0.011+/-0.000 χ^2/NDF :159760.9/24

Right Out: 0.012+/-0.000 χ^2/NDF : 231027.0/30

Left In: 0.011+/-0.000 χ^2/NDF :204531.5/22

Left: 0.011+/-0.000 χ^2/NDF : 364556.9/47

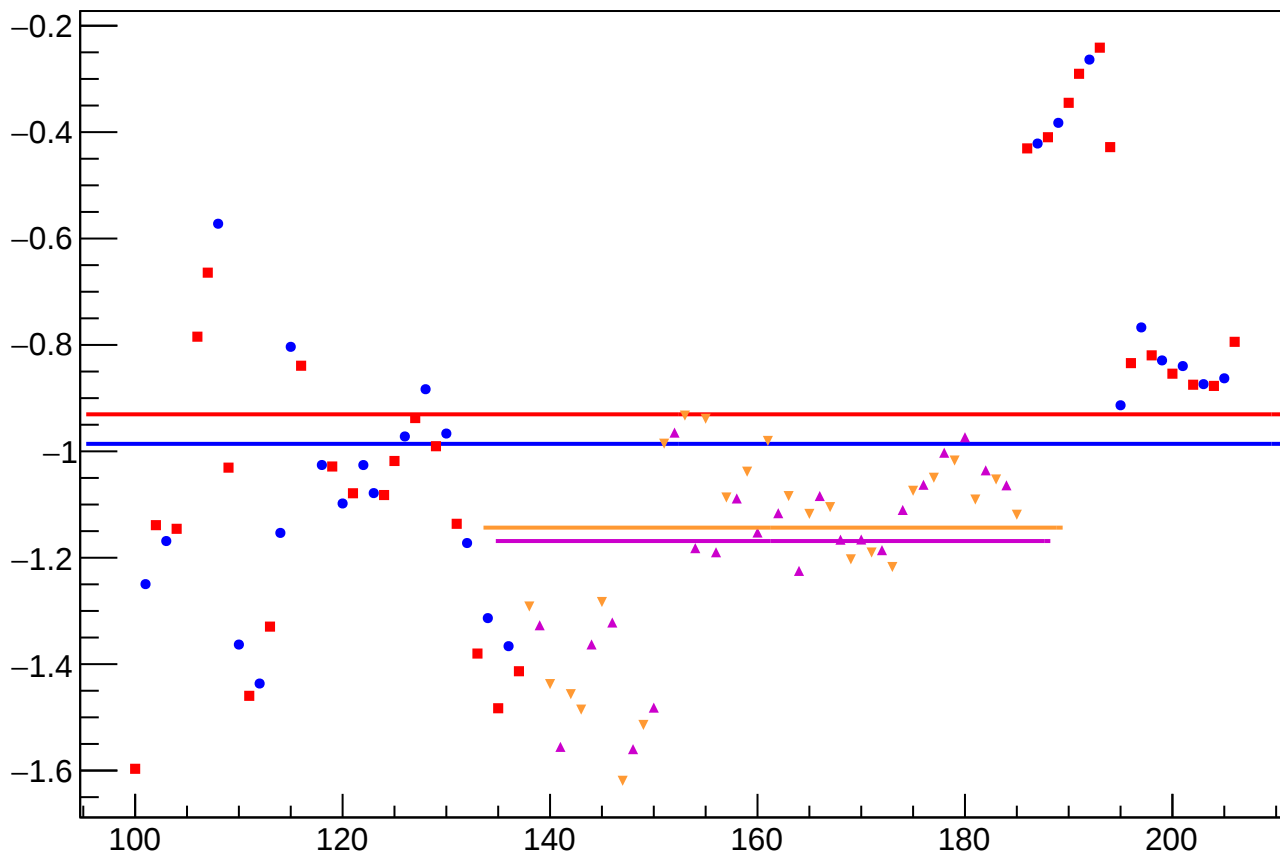
Right: 0.012+/-0.000 χ^2/NDF : 400329.8/56

In: 0.011+/-0.000 χ^2/NDF :621310.7/48

Out: 0.011+/-0.000 χ^2/NDF :590788.3/55

All: 0.011+/-0.000 χ^2/NDF : 1212145.9/104

yield_bpm0i02aY_mean vs Slug, Sign Corrected



Right In: -0.986+/-0.000

χ^2/NDF : 10875840043.7/25

Left: -1.156+/-0.000

χ^2/NDF : 14424995220.9/47

Left Out: -1.143+/-0.000

χ^2/NDF : 7976364534.0/24

Right: -0.957+/-0.000

χ^2/NDF : 26950178850.4/56

Right Out: -0.930+/-0.000

χ^2/NDF : 15873891621.5/30

In: -1.110+/-0.000

χ^2/NDF : 20034303670.5/48

Out: -1.073+/-0.000

χ^2/NDF : 28040329849.9/55

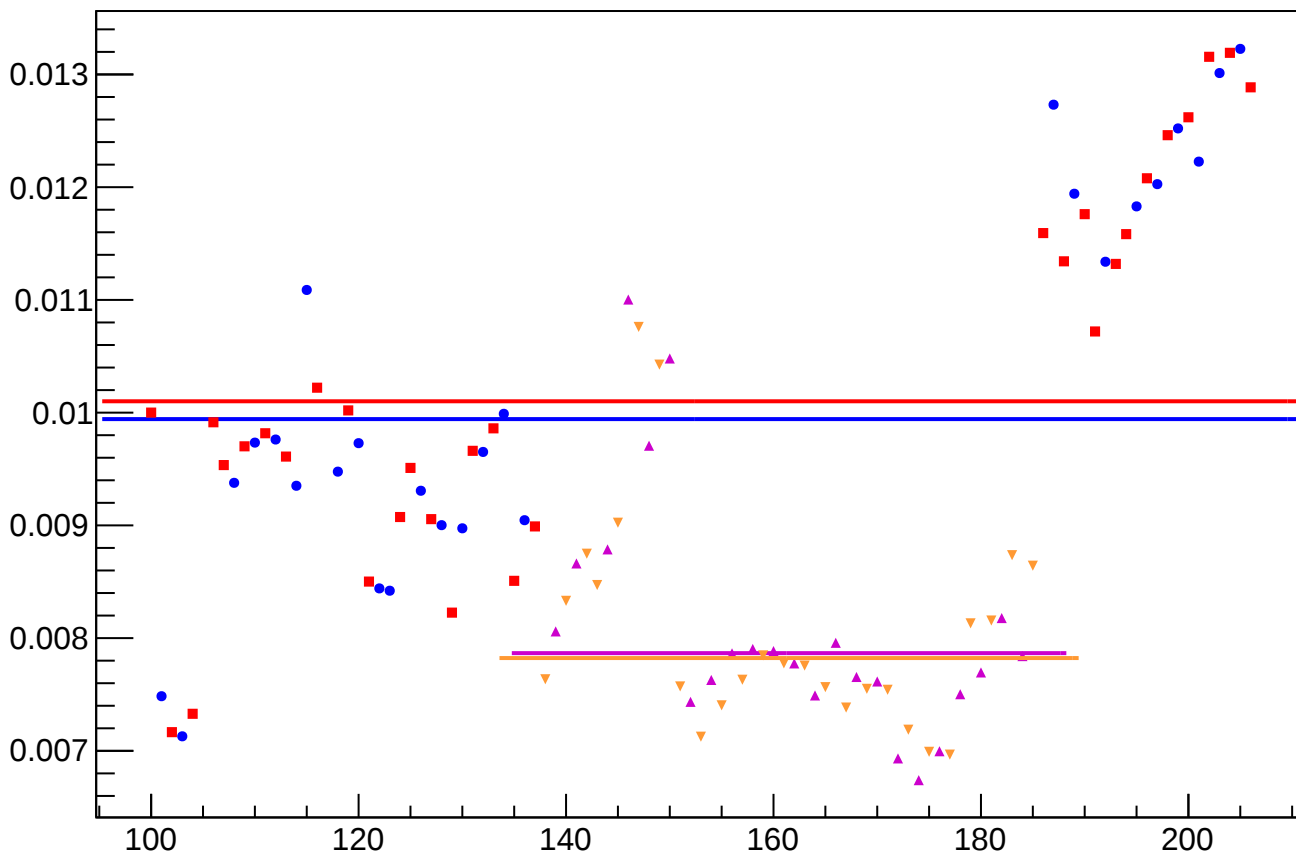
Left In: -1.169+/-0.000

χ^2/NDF : 6362643368.6/22

All: -1.091+/-0.000

χ^2/NDF : 48350170550.8/...

yield_bpm0i02aY_rms vs Slug, Sign Corrected



Right In: 0.010 $\pm$ 0.000 χ^2 /NDF: 823370.2/25

Left Out: 0.008 $\pm$ 0.000 χ^2 /NDF:336387.6/24

Right Out: 0.010 $\pm$ 0.000 χ^2 /NDF: 907845.7/30

Left In: 0.008 $\pm$ 0.000 χ^2 /NDF:379901.3/22

Left: 0.008 $\pm$ 0.000 χ^2 /NDF: 716803.8/47

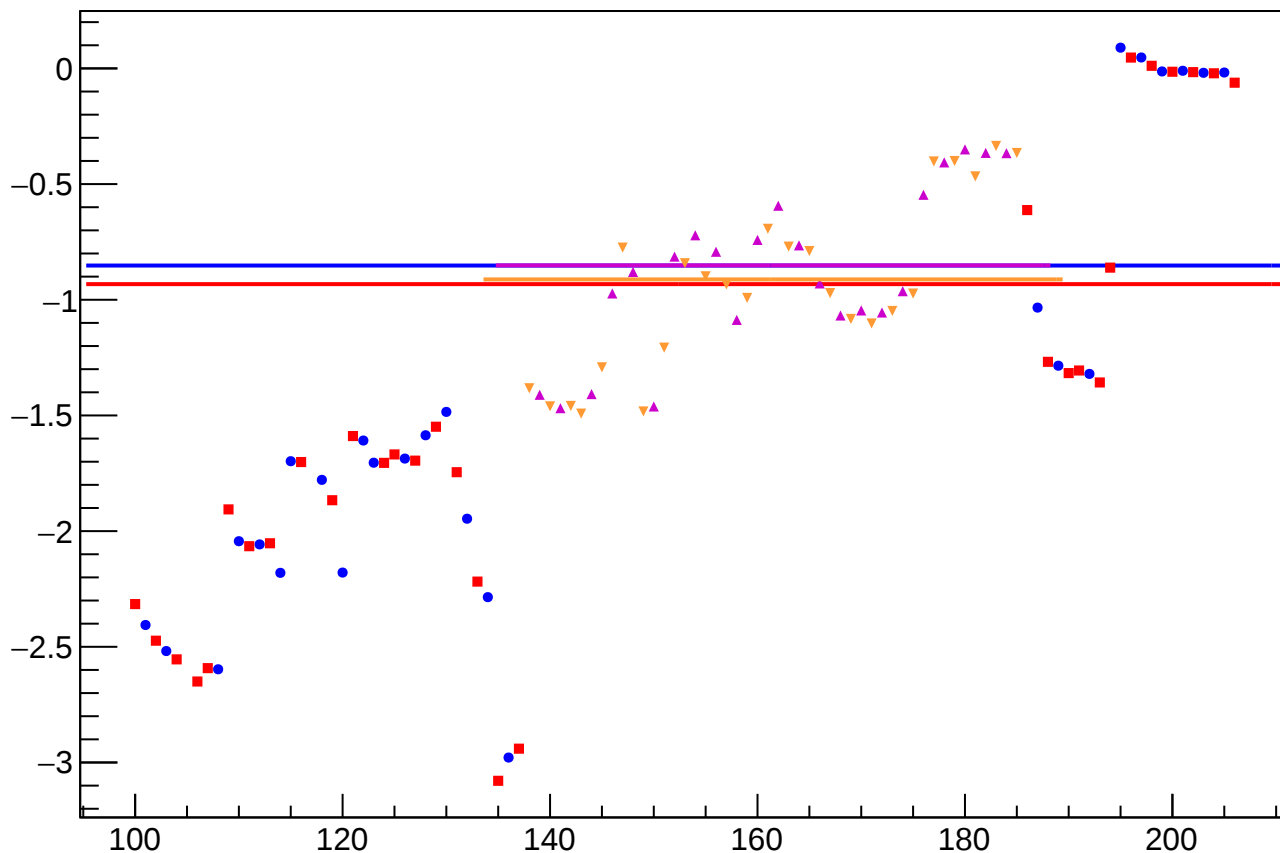
Right: 0.010 $\pm$ 0.000 χ^2 /NDF: 1734464.9/56

In: 0.009 $\pm$ 0.000 χ^2 /NDF:1925439.3/48

Out: 0.009 $\pm$ 0.000 χ^2 /NDF:2202660.5/55

All: 0.009 $\pm$ 0.000 χ^2 /NDF: 4128883.2/104

yield_bpm0i05X_mean vs Slug, Sign Corrected



Right In: -0.852+/-0.000

χ^2/NDF : 332254716848.8/25

Left: -0.882+/-0.000

χ^2/NDF : 96285672564.6/47

Right: -0.897+/-0.000

χ^2/NDF : 687848719833.4/56

Left Out: -0.912+/-0.000

χ^2/NDF : 49039425818.1/24

In: -0.852+/-0.000

χ^2/NDF : 378693228558.4/48

Right Out: -0.932+/-0.000

χ^2/NDF : 354482618170.5/30

Out: -0.922+/-0.000

χ^2/NDF : 403608464539.7/55

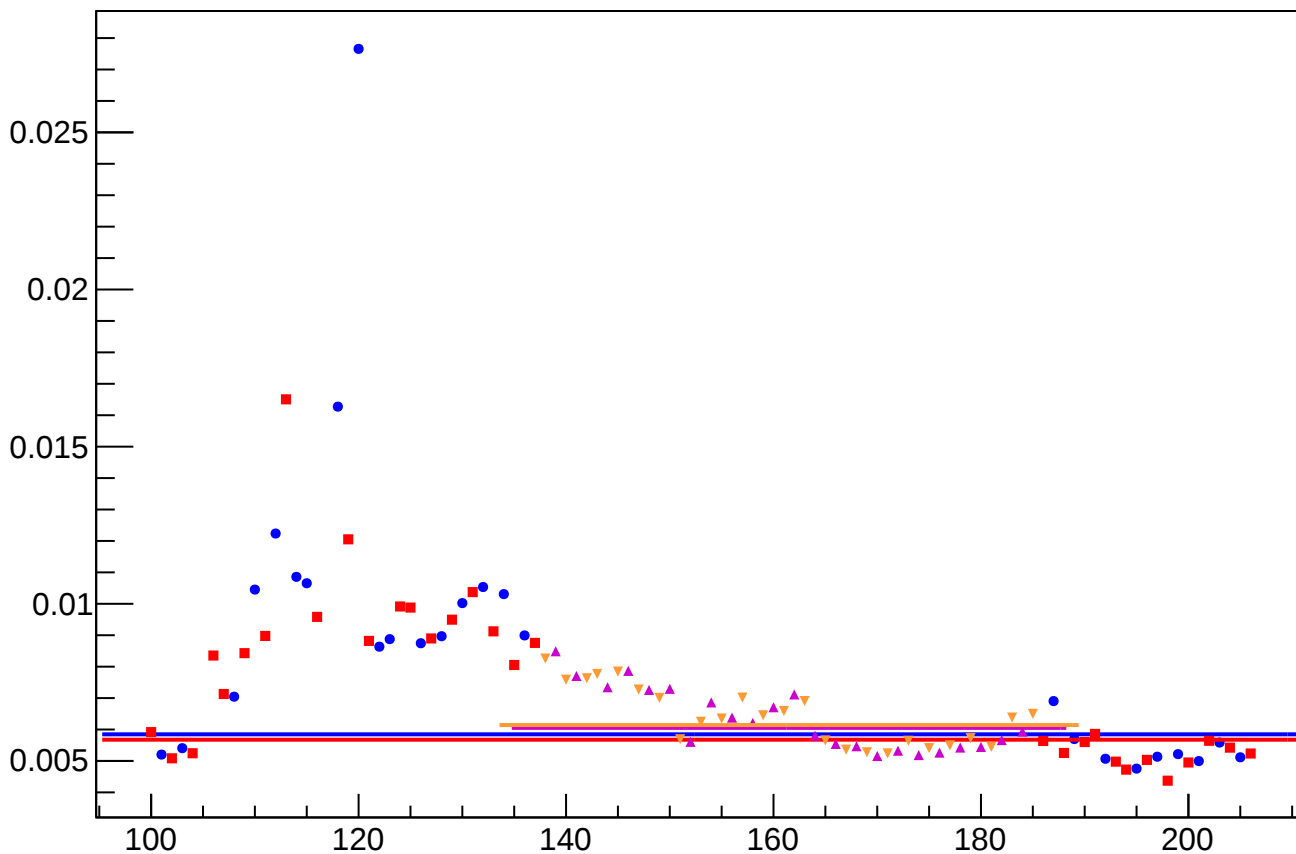
Left In: -0.851+/-0.000

χ^2/NDF : 46438446008.2/22

All: -0.889+/-0.000

χ^2/NDF : 784221591929.3

yield_bpm0i05X_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 1976606.1/25

Left Out: 0.006+/-0.000 χ^2/NDF : 637765.4/24

Right Out: 0.006+/-0.000 χ^2/NDF : 1895294.4/30

Left In: 0.006+/-0.000 χ^2/NDF : 697577.8/22

Left: 0.006+/-0.000 χ^2/NDF : 1338871.2/47

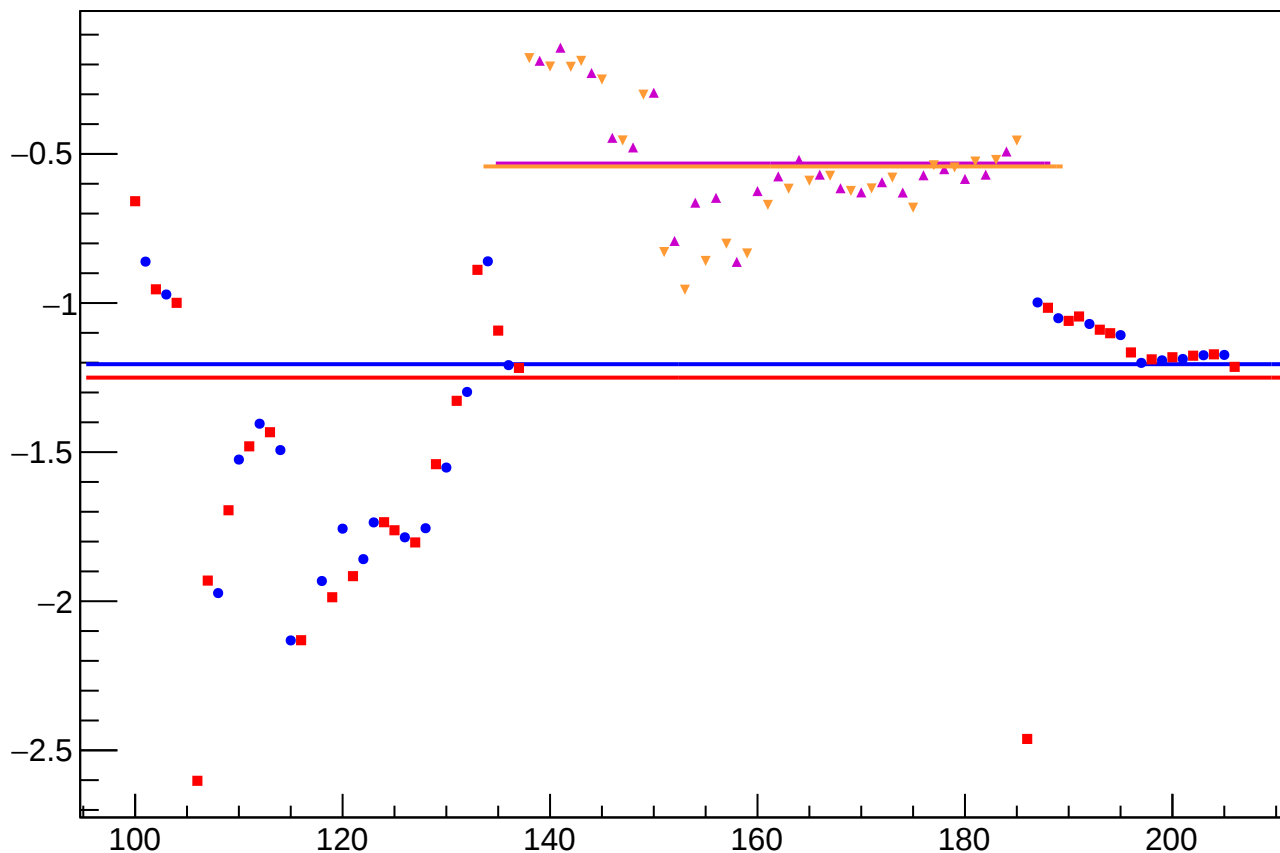
Right: 0.006+/-0.000 χ^2/NDF : 3881907.6/56

In: 0.006+/-0.000 χ^2/NDF : 2689407.6/48

Out: 0.006+/-0.000 χ^2/NDF : 2623356.6/55

All: 0.006+/-0.000 χ^2/NDF : 5314227.8/104

yield_bpm0i05Y_mean vs Slug, Sign Corrected



Right In: -1.205+/-0.000

χ^2/NDF : 26333795260.2/25

Left: -0.537+/-0.000

χ^2/NDF : 78028833870.1/47

Right: -1.230+/-0.000

χ^2/NDF : 105787474028.9/56

Left Out: -0.542+/-0.000

χ^2/NDF : 47268284910.3/24

In: -0.771+/-0.000

χ^2/NDF : 207572831001.8/48

Right Out: -1.250+/-0.000

χ^2/NDF : 78867915905.6/30

Out: -0.824+/-0.000

χ^2/NDF : 324374208491.5/55

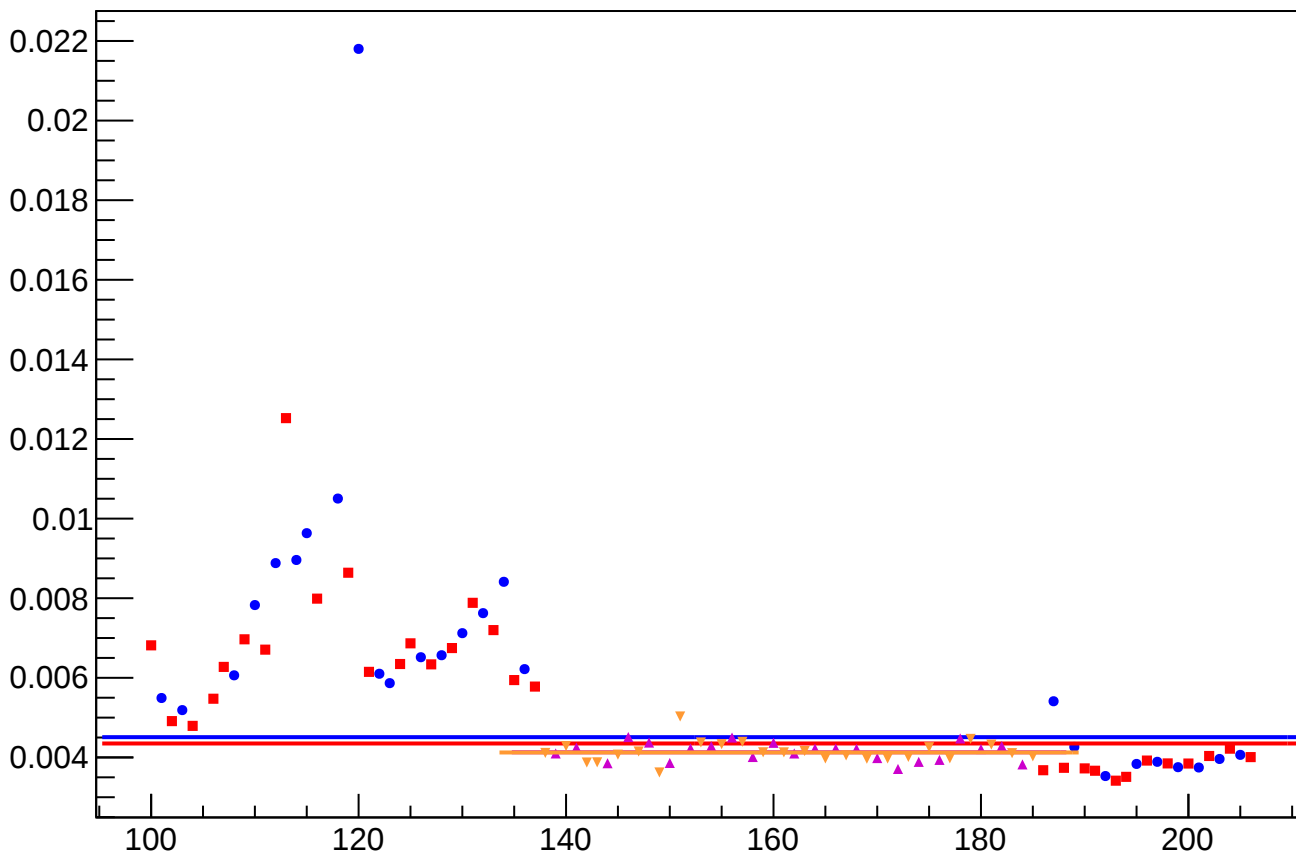
Left In: -0.532+/-0.000

χ^2/NDF : 30715235426.8/22

All: -0.799+/-0.000

χ^2/NDF : 534119526863.5

yield_bpm0i05Y_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 1953374.6/25

Left Out: 0.004+/-0.000 χ^2/NDF :113033.9/24

Right Out: 0.004+/-0.000 χ^2/NDF : 1841968.1/30

Left In: 0.004+/-0.000 χ^2/NDF :93111.2/22

Left: 0.004+/-0.000 χ^2/NDF : 206172.1/47

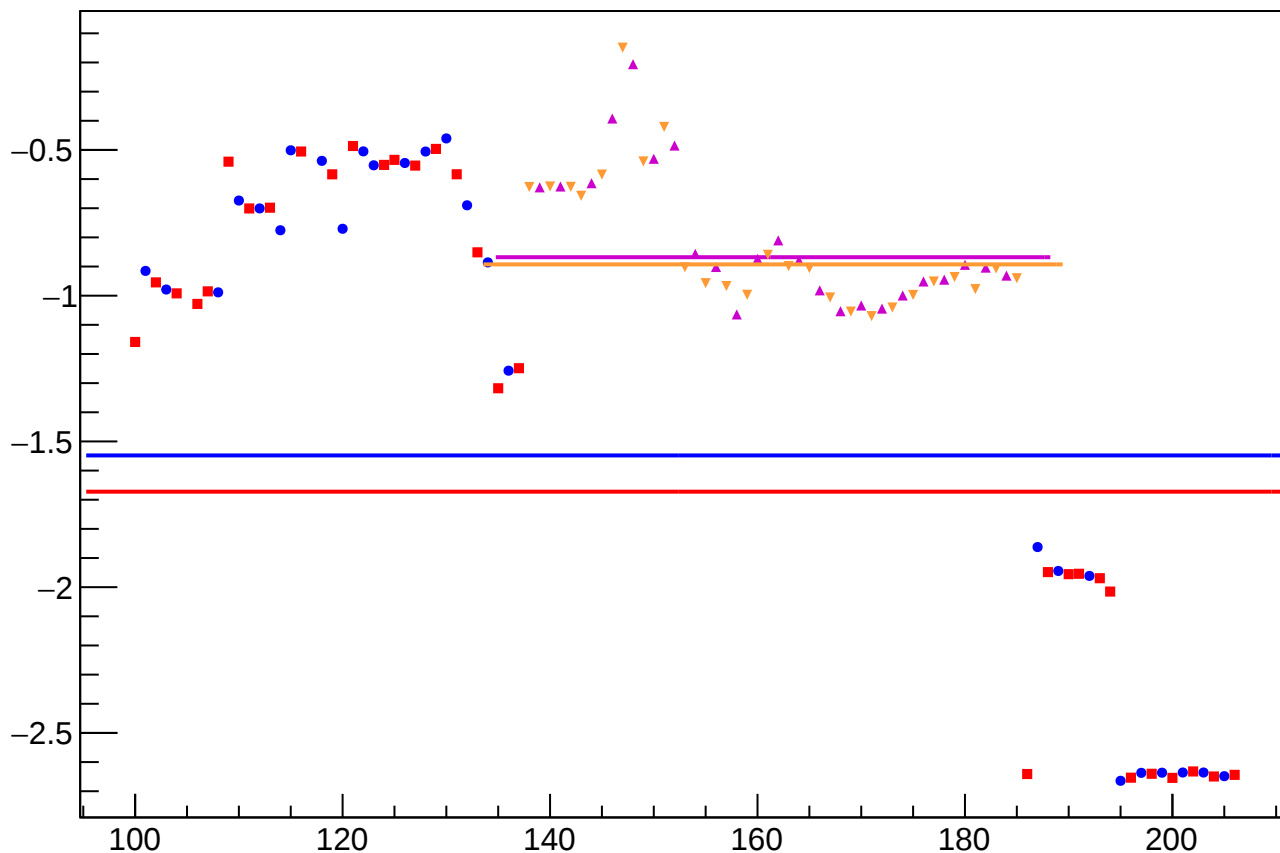
Right: 0.004+/-0.000 χ^2/NDF : 3809924.8/56

In: 0.004+/-0.000 χ^2/NDF :2142197.0/48

Out: 0.004+/-0.000 χ^2/NDF :1995315.4/55

All: 0.004+/-0.000 χ^2/NDF : 4141372.6/104

yield_bpm0i07X_mean vs Slug, Sign Corrected



Right In: -1.548 $\pm$ 0.000

χ^2 /NDF: 230820090233.3/25

Left: -0.880 $\pm$ 0.000

χ^2 /NDF: 84980637247.0/47

Left Out: -0.893 $\pm$ 0.000

χ^2 /NDF: 40787012603.8/24

Right: -1.622 $\pm$ 0.000

χ^2 /NDF: 539204513705.2/56

Right Out: -1.672 $\pm$ 0.000

χ^2 /NDF: 304439397227.0/30

In: -1.057 $\pm$ 0.000

χ^2 /NDF: 418007694769.7/48

Out: -1.172 $\pm$ 0.000

χ^2 /NDF: 590823125228.1/55

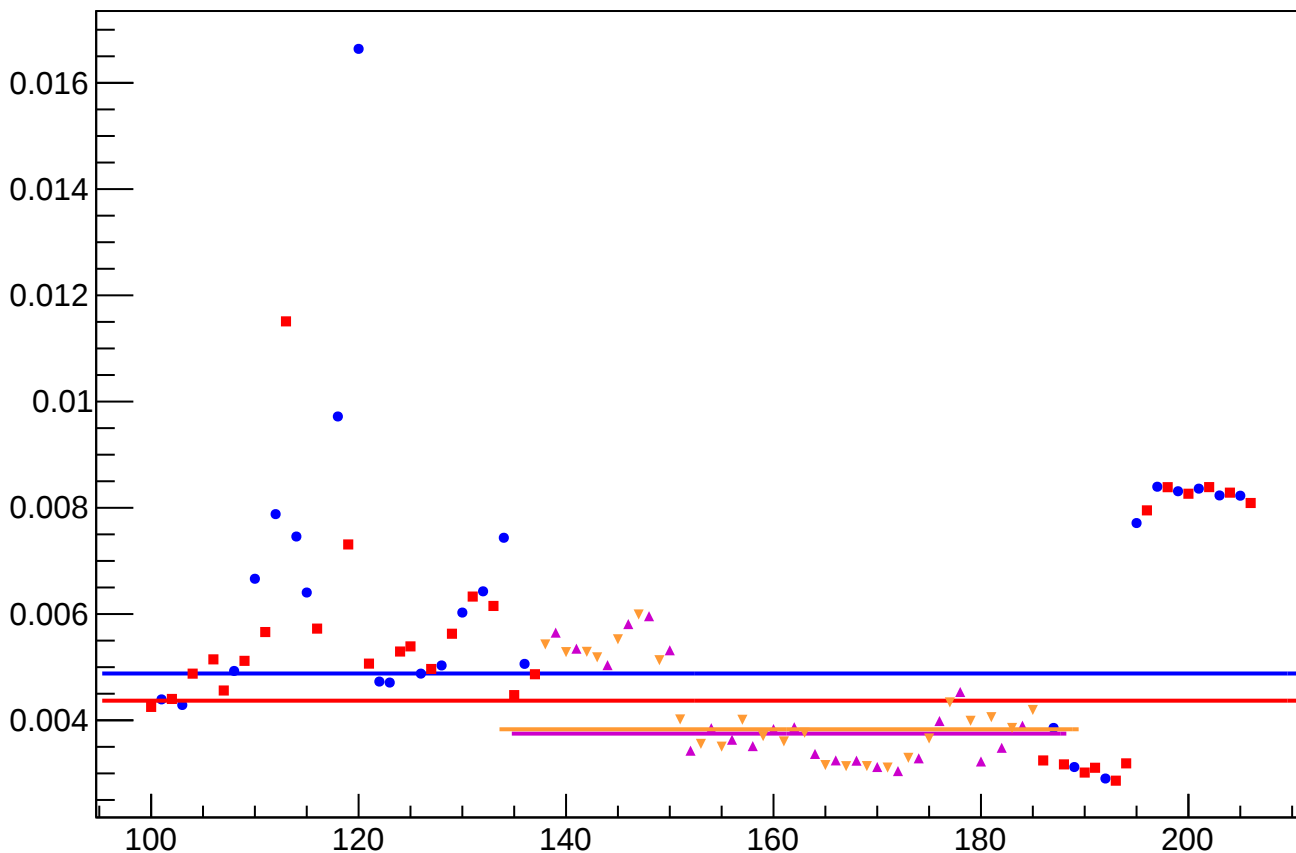
Left In: -0.868 $\pm$ 0.000

χ^2 /NDF: 43853190177.2/22

All: -1.118 $\pm$ 0.000

χ^2 /NDF: 1019820940072

yield_bpm0i07X_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 3406760.7/25

Left Out: 0.004+/-0.000 χ^2/NDF :1179801.7/24

Right Out: 0.004+/-0.000 χ^2/NDF : 3789801.6/30

Left In: 0.004+/-0.000 χ^2/NDF :1288490.4/22

Left: 0.004+/-0.000 χ^2/NDF : 2475792.1/47

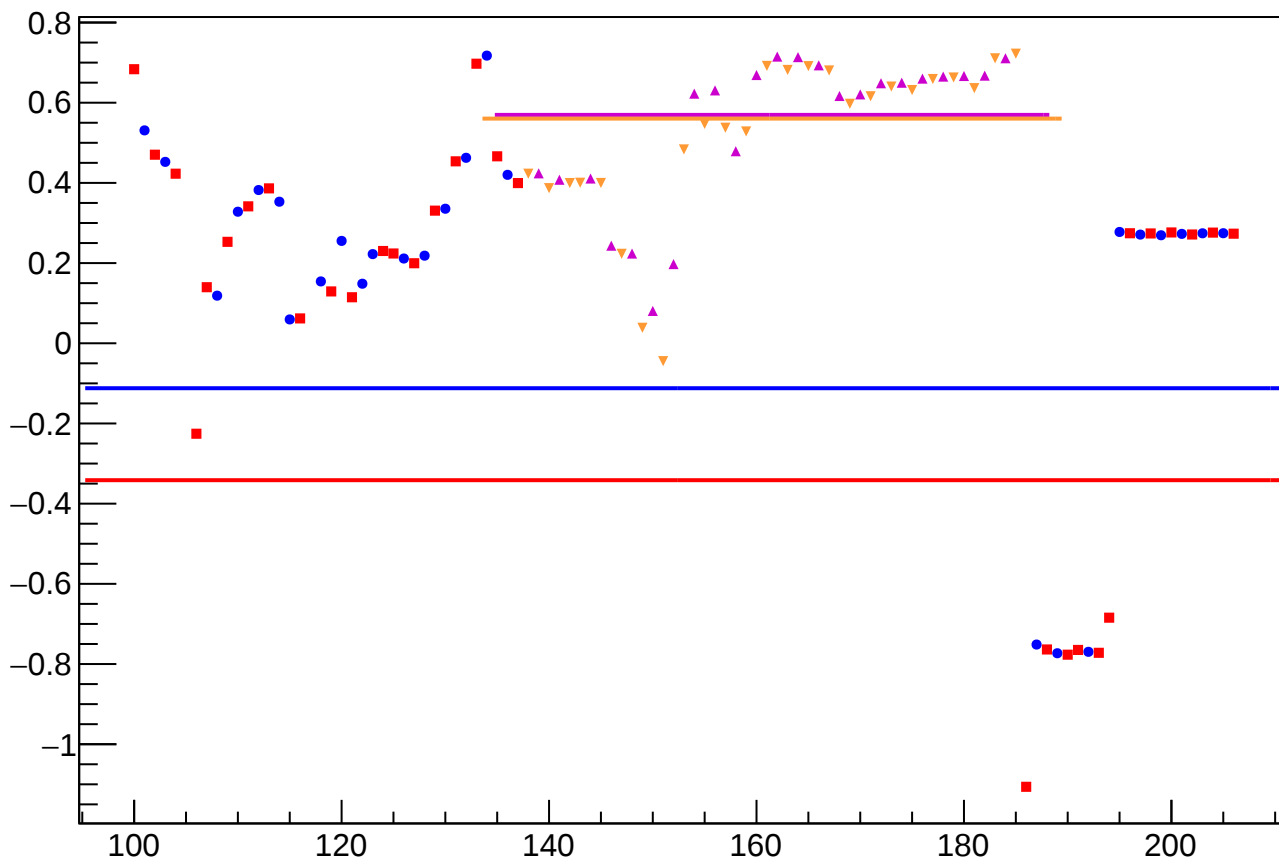
Right: 0.005+/-0.000 χ^2/NDF : 7330206.1/56

In: 0.004+/-0.000 χ^2/NDF :5489216.3/48

Out: 0.004+/-0.000 χ^2/NDF :5203717.5/55

All: 0.004+/-0.000 χ^2/NDF : 10695469.7/104

yield_bpm0i07Y_mean vs Slug, Sign Corrected



Right In: -0.112+/-0.000 χ^2/NDF : 277627053006.4/25

Left Out: 0.560+/-0.000 χ^2/NDF : 45205806387.2/24

Right Out: -0.341+/-0.000 χ^2/NDF : 452868098043.7/30

Left In: 0.570+/-0.000 χ^2/NDF : 42104067973.0/22

Left: 0.565+/-0.000 χ^2/NDF : 87378176036.1/47

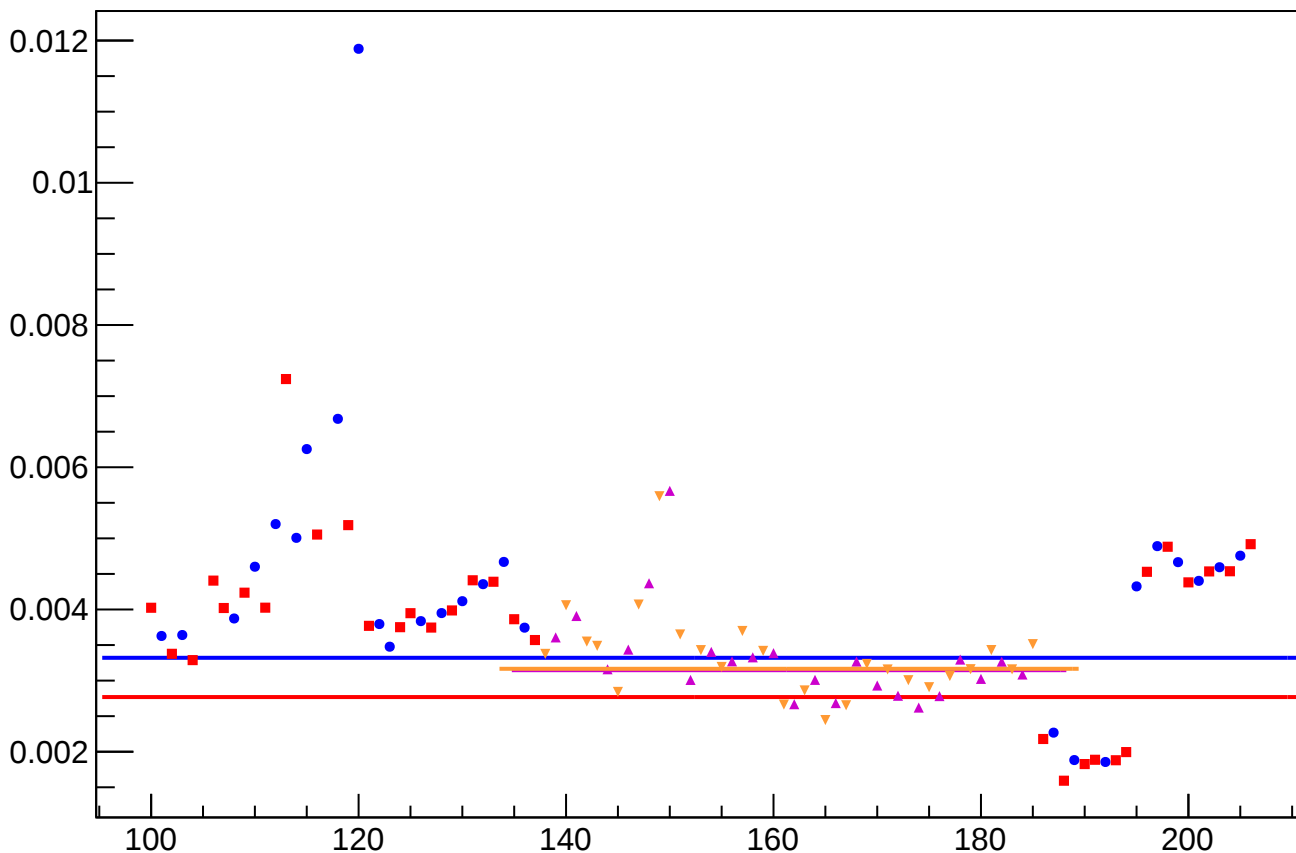
Right: -0.253+/-0.000 χ^2/NDF : 761120809927.9/56

In: 0.312+/-0.000 χ^2/NDF : 593486143364.4/48

Out: 0.125+/-0.000 χ^2/NDF : 1133271359172.8/55

All: 0.208+/-0.000 χ^2/NDF : 1775210447648.

yield_bpm0i07Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 3108297.0/25

Left Out: 0.003+/-0.000 χ^2/NDF : 744886.7/24

Right Out: 0.003+/-0.000 χ^2/NDF : 4508033.4/30

Left In: 0.003+/-0.000 χ^2/NDF : 716402.8/22

Left: 0.003+/-0.000 χ^2/NDF : 1461906.1/47

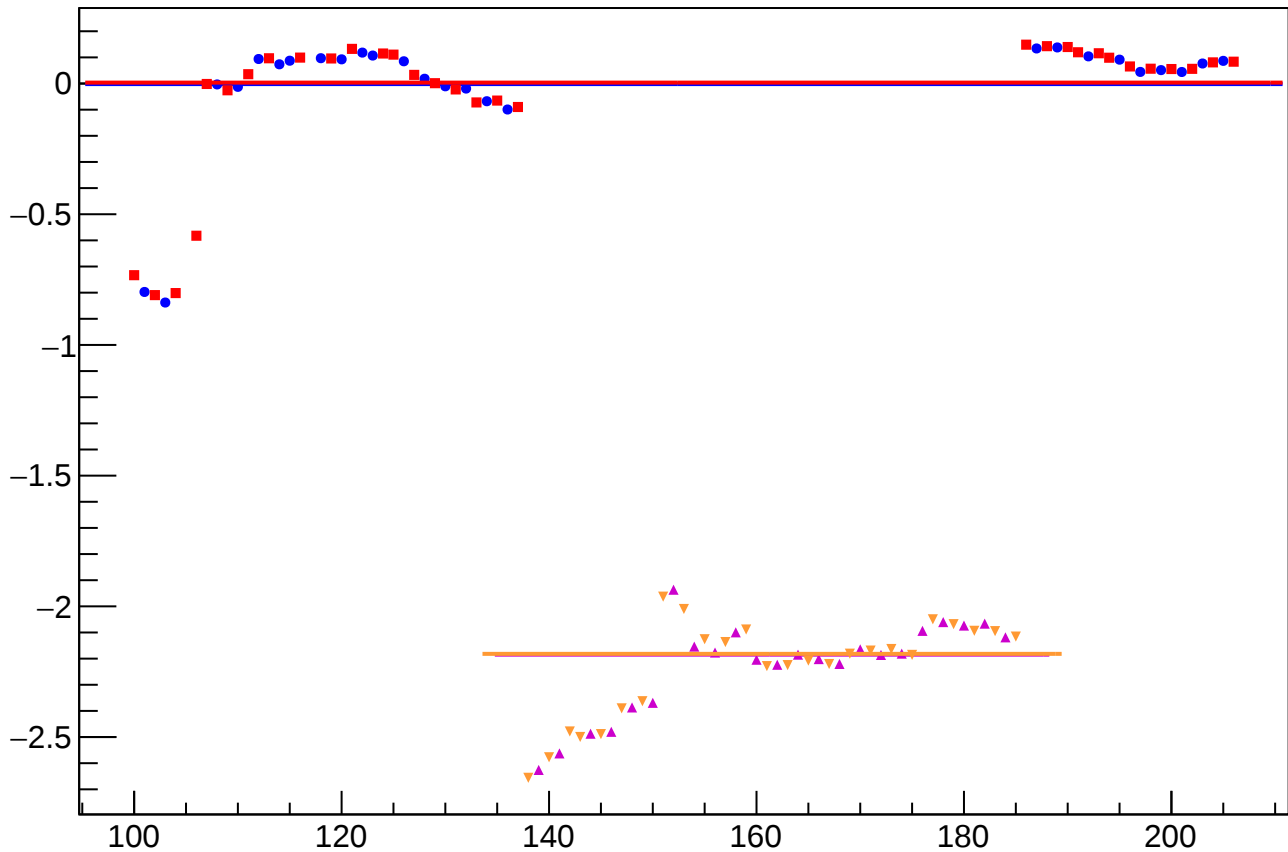
Right: 0.003+/-0.000 χ^2/NDF : 7971012.0/56

In: 0.003+/-0.000 χ^2/NDF : 3860488.9/48

Out: 0.003+/-0.000 χ^2/NDF : 5499664.0/55

All: 0.003+/-0.000 χ^2/NDF : 9517673.4/104

yield_bpm1i02X_mean vs Slug, Sign Corrected



Right In: -0.002+/-0.000

χ^2/NDF : 5828806840.4/25

Left: -2.183+/-0.000

χ^2/NDF : 7382310821.5/47

Left Out: -2.182+/-0.000

χ^2/NDF : 4008829567.0/24

Right: 0.001+/-0.000

χ^2/NDF : 12784679294.9/56

Right Out: 0.004+/-0.000

χ^2/NDF : 6953879443.2/30

In: -1.269+/-0.000

χ^2/NDF : 323962174722.1/48

Out: -1.204+/-0.000

χ^2/NDF : 369547659856.1/55

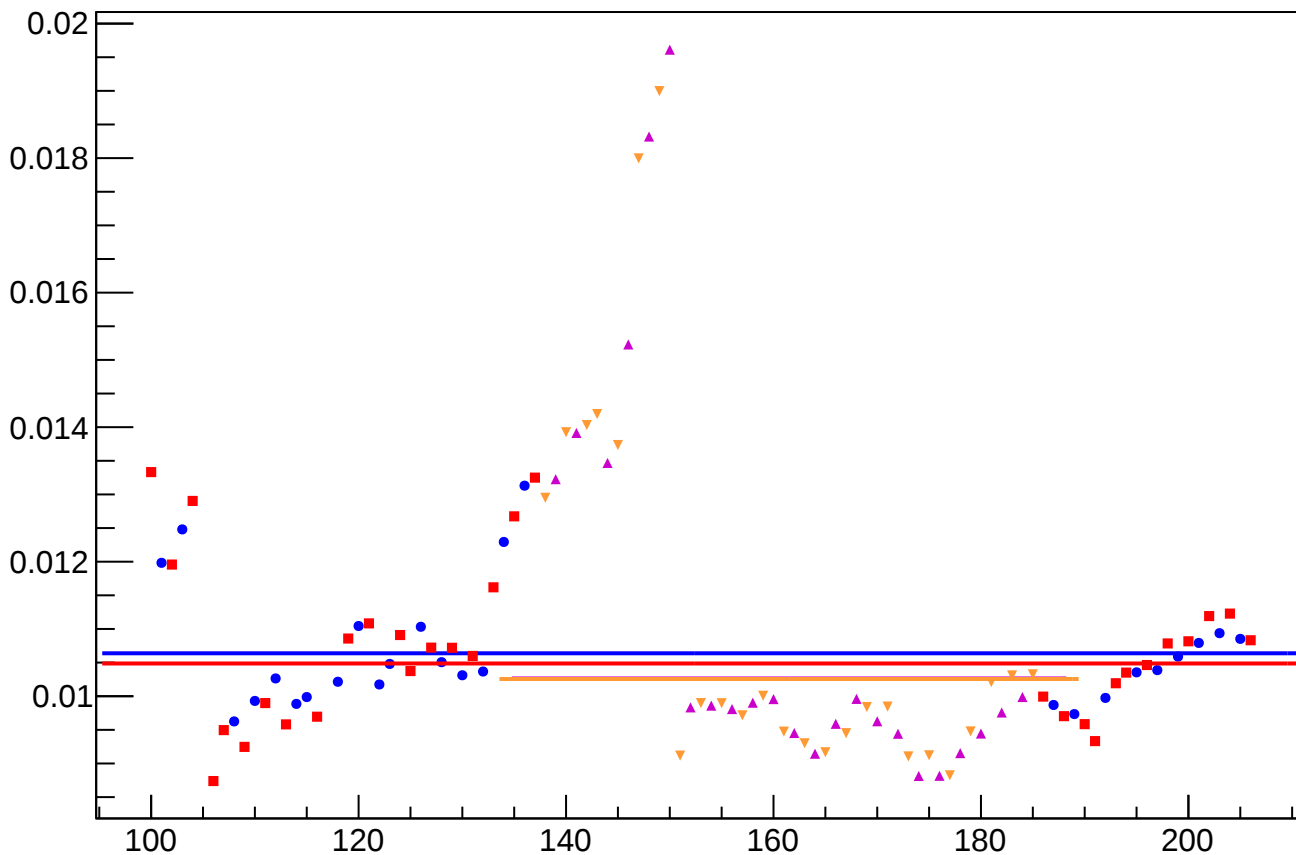
Left In: -2.185+/-0.000

χ^2/NDF : 3372742534.3/22

All: -1.234+/-0.000

χ^2/NDF : 694113033597.9/100

yield_bpm1i02X_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 151242.7/25

Left Out: 0.010+/-0.000 χ^2/NDF :1270617.6/24

Right Out: 0.010+/-0.000 χ^2/NDF : 223320.3/30

Left In: 0.010+/-0.000 χ^2/NDF :1340264.2/22

Left: 0.010+/-0.000 χ^2/NDF : 2610893.2/47

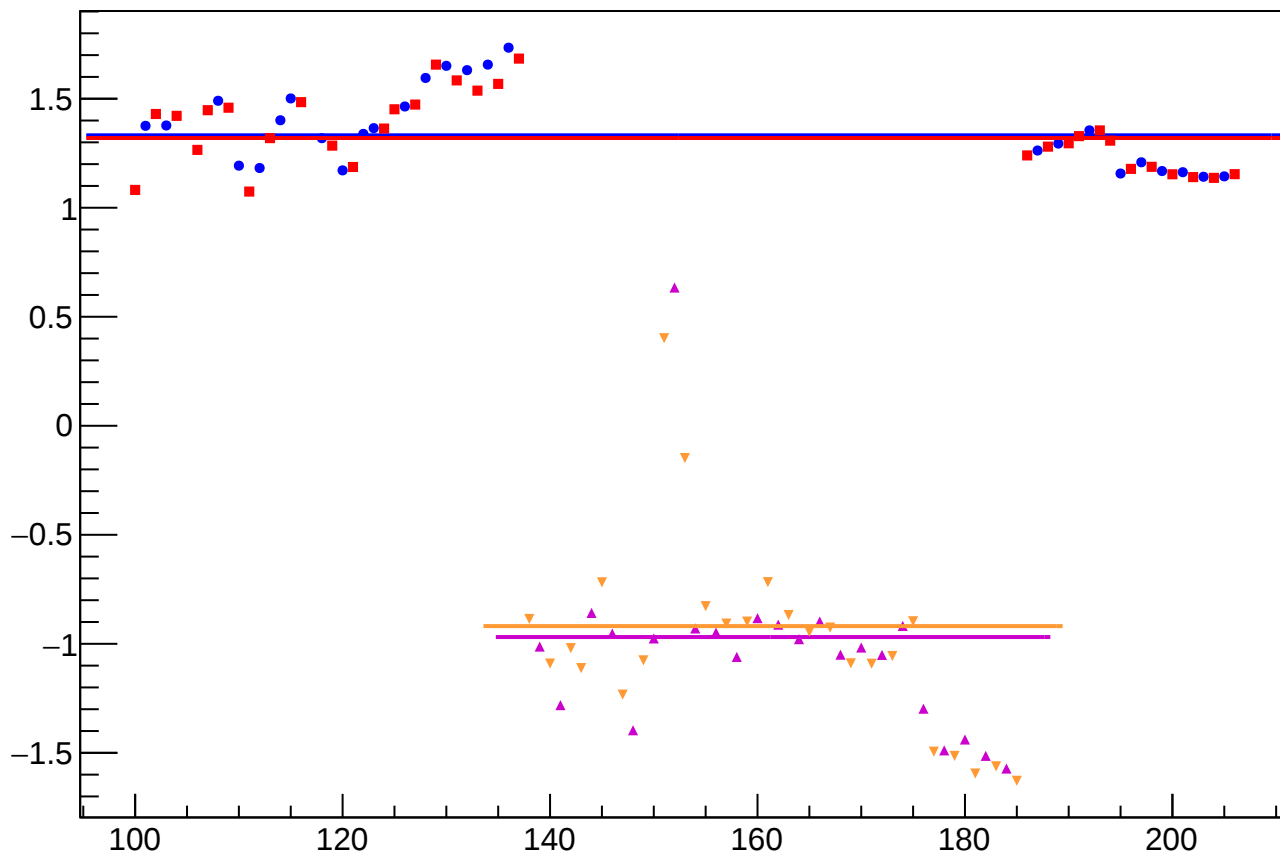
Right: 0.011+/-0.000 χ^2/NDF : 377413.3/56

In: 0.010+/-0.000 χ^2/NDF :1509986.6/48

Out: 0.010+/-0.000 χ^2/NDF :1501928.6/55

All: 0.010+/-0.000 χ^2/NDF : 3013020.5/104

yield_bpm1i02Y_mean vs Slug, Sign Corrected



Right In: 1.332 $\pm$ 0.000

χ^2 /NDF: 7097649698.8/25

Left: -0.943 $\pm$ 0.000

χ^2 /NDF: 110825900215.1/47

Left Out: -0.919 $\pm$ 0.000

χ^2 /NDF: 55622252895.8/24

Right: 1.326 $\pm$ 0.000

χ^2 /NDF: 12917599630.5/56

Right Out: 1.320 $\pm$ 0.000

χ^2 /NDF: 5801417115.6/30

In: 0.148 $\pm$ 0.000

χ^2 /NDF: 677609732340.8/48

Out: 0.225 $\pm$ 0.000

χ^2 /NDF: 707298510960.9/55

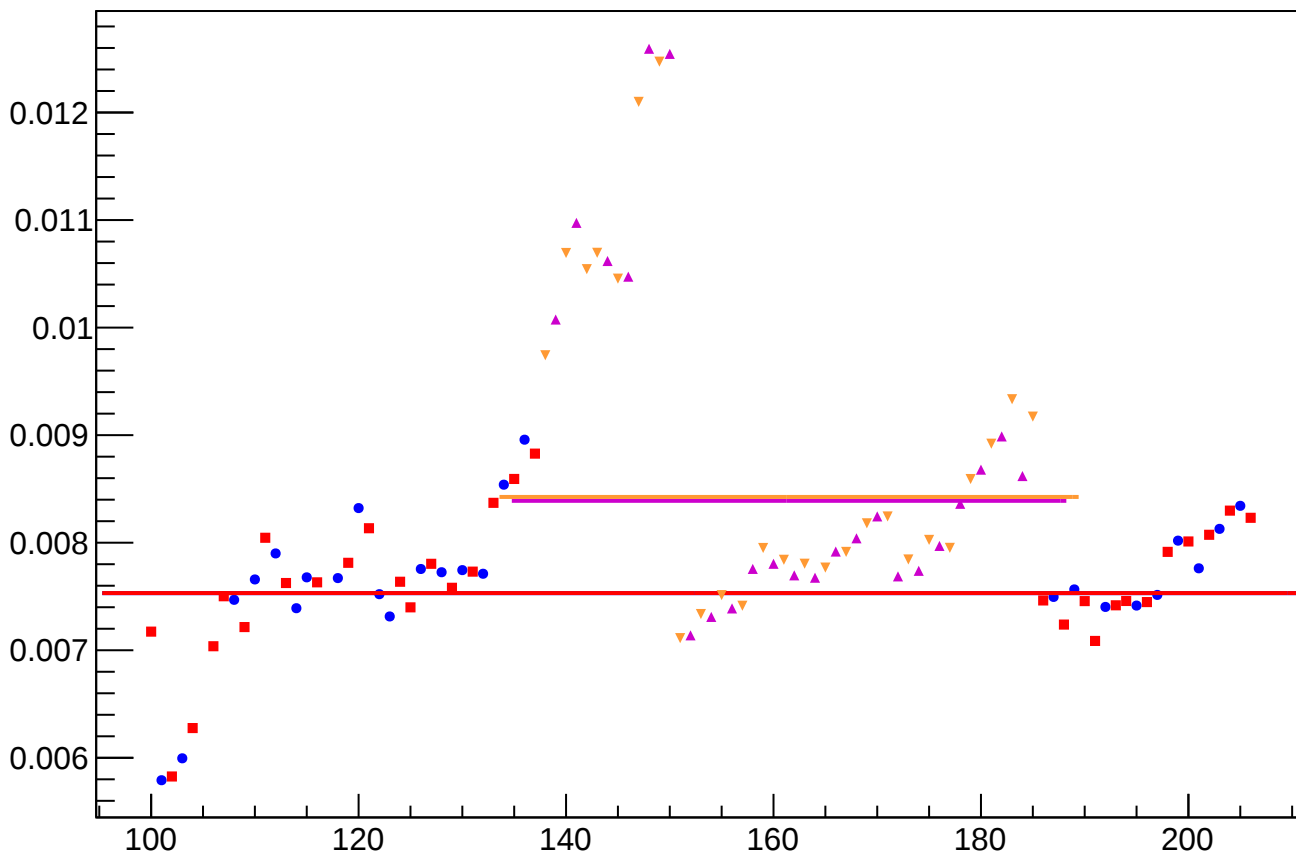
Left In: -0.969 $\pm$ 0.000

χ^2 /NDF: 54895002535.8/22

All: 0.189 $\pm$ 0.000

χ^2 /NDF: 1386364147875.

yield_bpm1i02Y_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 269129.7/25

Left Out: 0.008+/-0.000 χ^2/NDF : 792337.0/24

Right Out: 0.008+/-0.000 χ^2/NDF : 224744.9/30

Left In: 0.008+/-0.000 χ^2/NDF : 839880.4/22

Left: 0.008+/-0.000 χ^2/NDF : 1632536.0/47

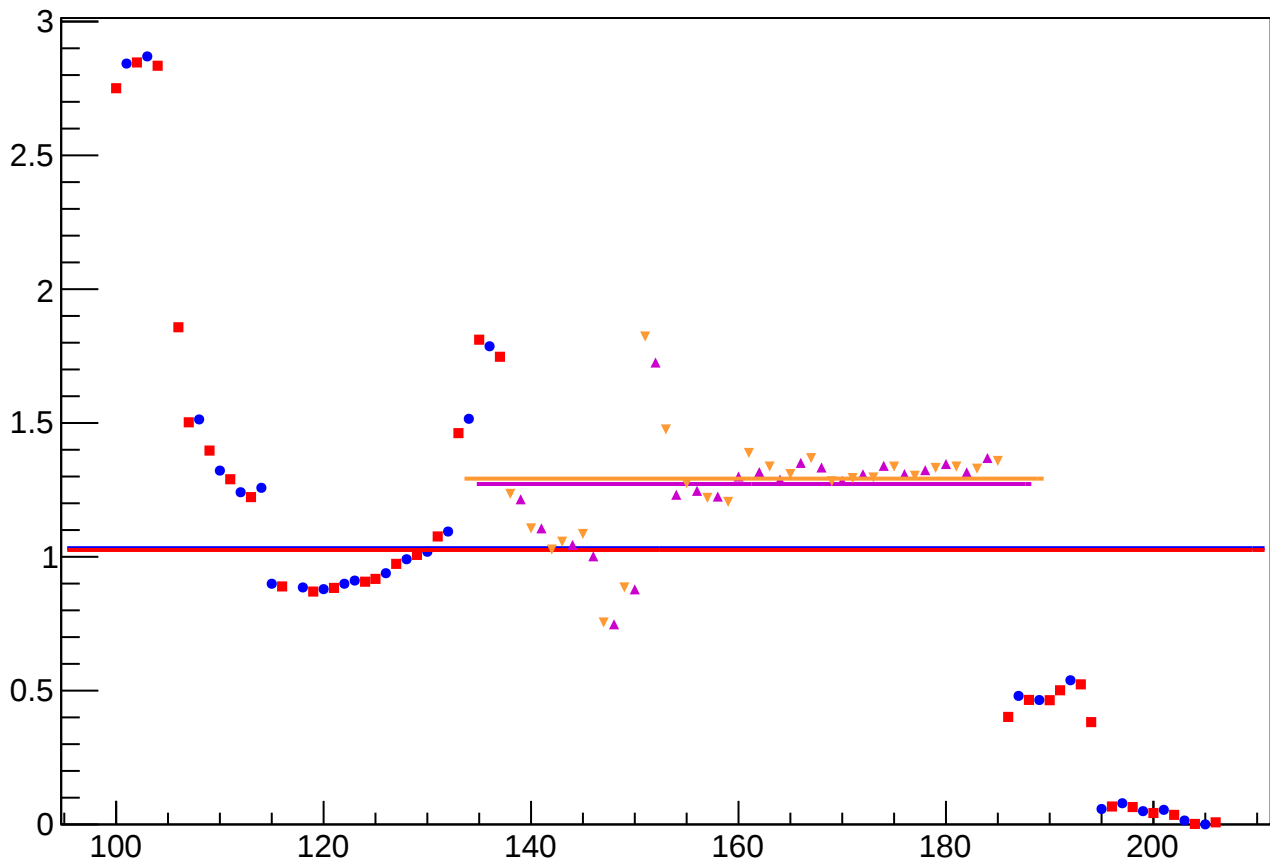
Right: 0.008+/-0.000 χ^2/NDF : 493874.7/56

In: 0.008+/-0.000 χ^2/NDF : 1280439.1/48

Out: 0.008+/-0.000 χ^2/NDF : 1223033.1/55

All: 0.008+/-0.000 χ^2/NDF : 2503480.0/104

yield_bpm1i04X_mean vs Slug, Sign Corrected



Right In: 1.032 $\pm$ 0.000 χ^2 /NDF: 115039851960.3/25

Left Out: 1.292 $\pm$ 0.000 χ^2 /NDF: 9305298695.5/24

Right Out: 1.026 $\pm$ 0.000 χ^2 /NDF: 117960675988.9/30

Left In: 1.272 $\pm$ 0.000 χ^2 /NDF: 7573930981.2/22

Left: 1.282 $\pm$ 0.000 χ^2 /NDF: 16930321584.4/47

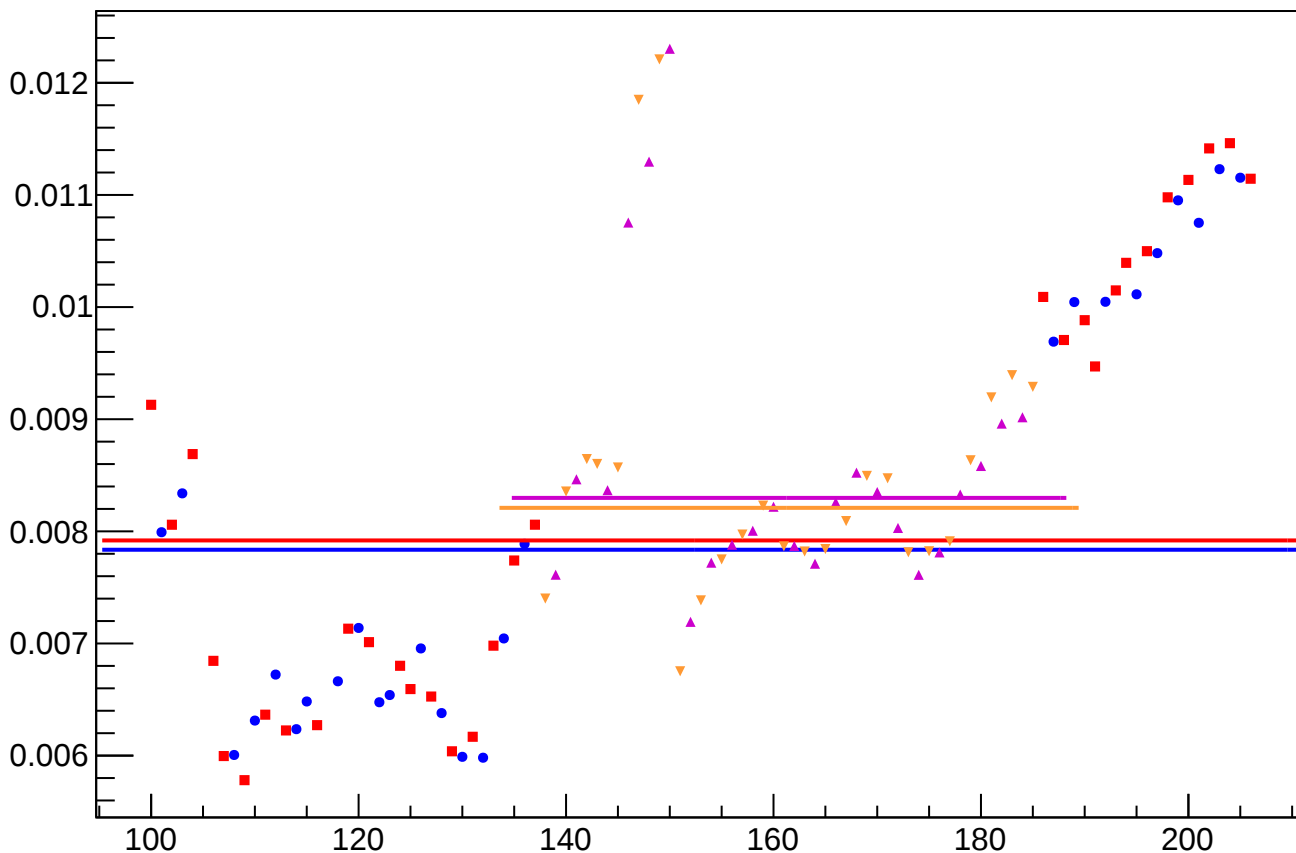
Right: 1.029 $\pm$ 0.000 χ^2 /NDF: 233005277958.5/56

In: 1.164 $\pm$ 0.000 χ^2 /NDF: 128928039682.4/48

Out: 1.169 $\pm$ 0.000 χ^2 /NDF: 135911670204.4/55

All: 1.166 $\pm$ 0.000 χ^2 /NDF: 264845167140.6

yield_bpm1i04X_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 1344068.7/25

Left Out: 0.008+/-0.000 χ^2/NDF : 478864.9/24

Right Out: 0.008+/-0.000 χ^2/NDF : 1691699.6/30

Left In: 0.008+/-0.000 χ^2/NDF : 462022.1/22

Left: 0.008+/-0.000 χ^2/NDF : 942877.3/47

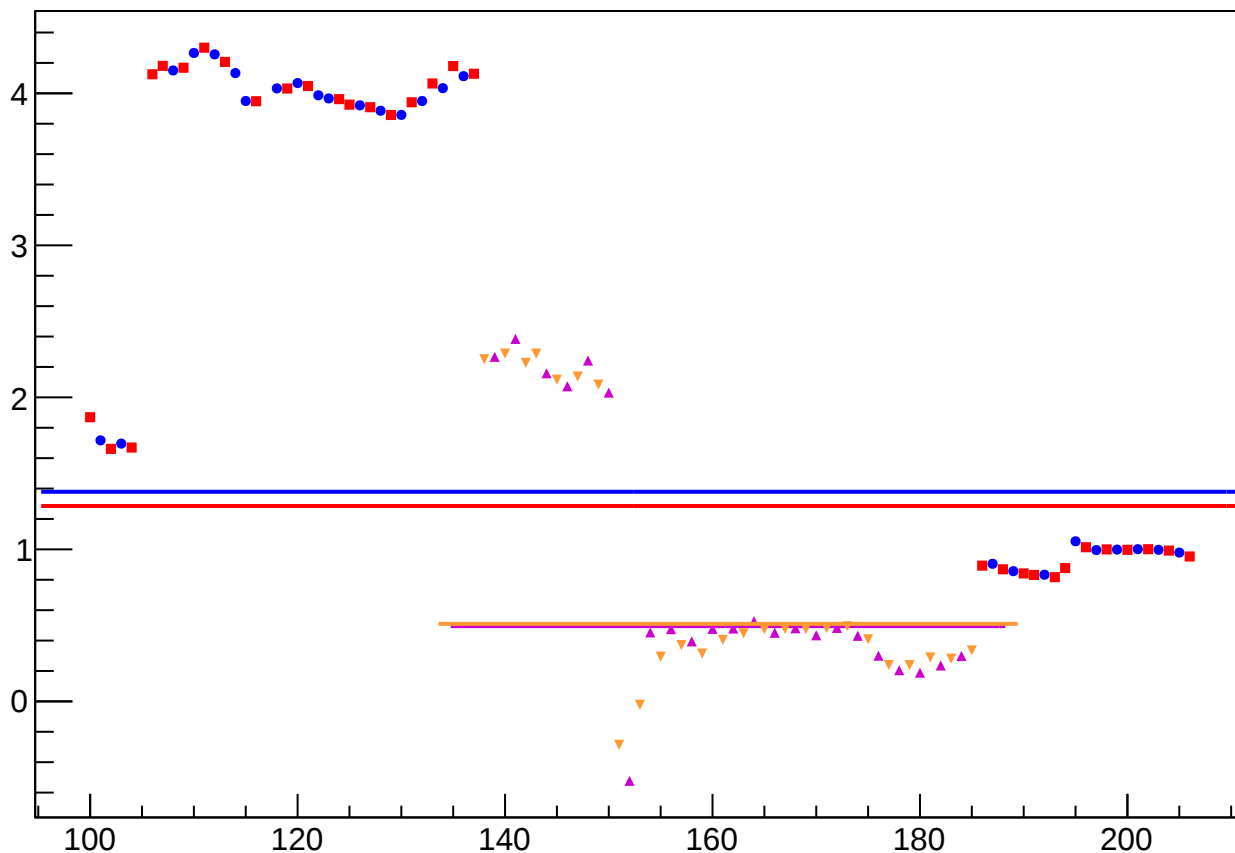
Right: 0.008+/-0.000 χ^2/NDF : 3037234.6/56

In: 0.008+/-0.000 χ^2/NDF : 1853081.1/48

Out: 0.008+/-0.000 χ^2/NDF : 2191129.8/55

All: 0.008+/-0.000 χ^2/NDF : 4044311.3/104

yield_bpm1i04Y_mean vs Slug, Sign Corrected



Right In: 1.379+/-0.000 χ^2/NDF : 1451811307478.2/25

Left Out: 0.510+/-0.000 χ^2/NDF : 274818814912.4/24

Right Out: 1.285+/-0.000 χ^2/NDF : 1683971163203.7/30

Left In: 0.495+/-0.000 χ^2/NDF : 268863202792.4/22

Left: 0.503+/-0.000 χ^2/NDF : 543767842878.3/47

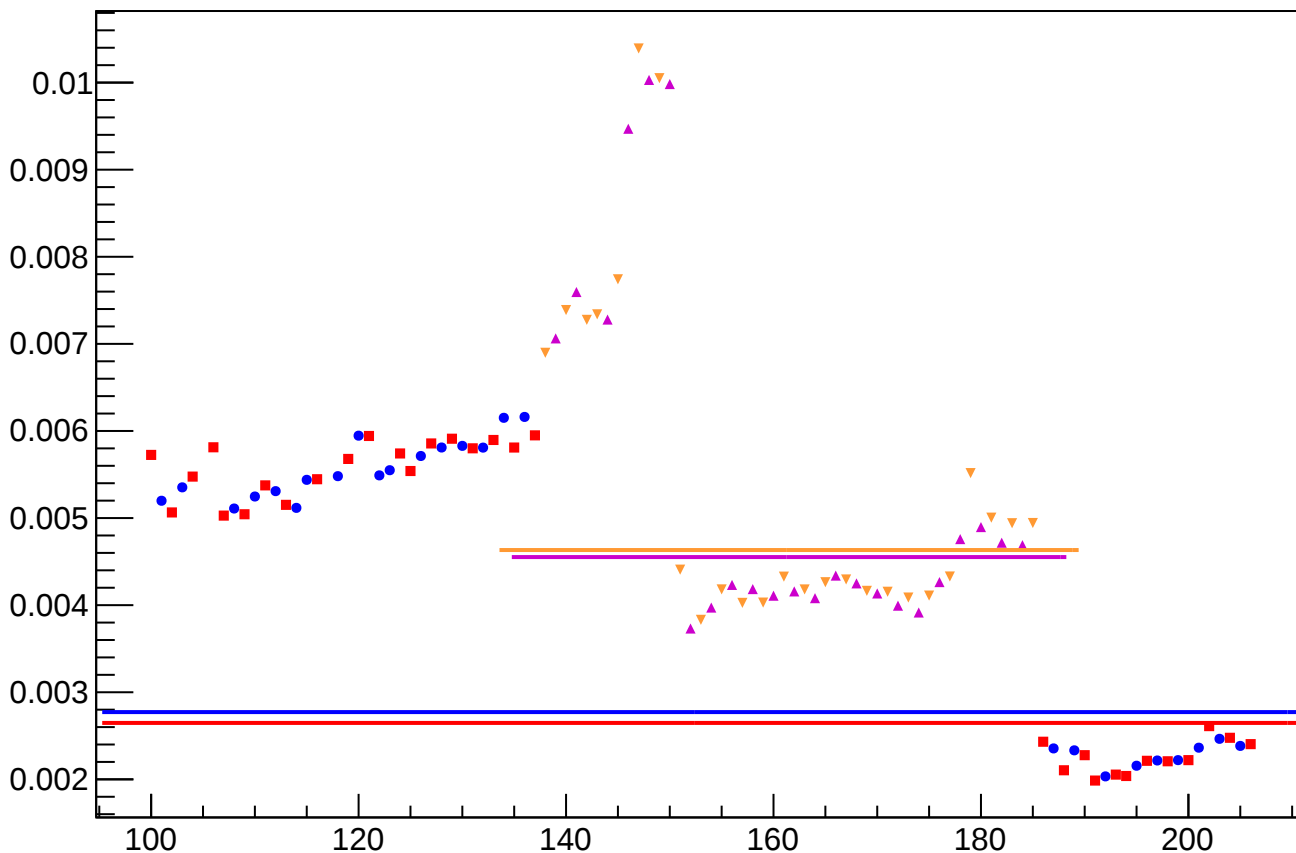
Right: 1.326+/-0.000 χ^2/NDF : 3142483688927.5/56

In: 1.063+/-0.000 χ^2/NDF : 2101248270277.2/48

Out: 1.046+/-0.000 χ^2/NDF : 2281836908965.6/55

All: 1.054+/-0.000 χ^2/NDF : 4383407039411.1

yield_bpm1i04Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 4074465.3/25

Left Out: 0.005+/-0.000 χ^2/NDF : 2114007.7/24

Right Out: 0.003+/-0.000 χ^2/NDF : 4438535.5/30

Left In: 0.005+/-0.000 χ^2/NDF : 2237666.9/22

Left: 0.005+/-0.000 χ^2/NDF : 4356682.7/47

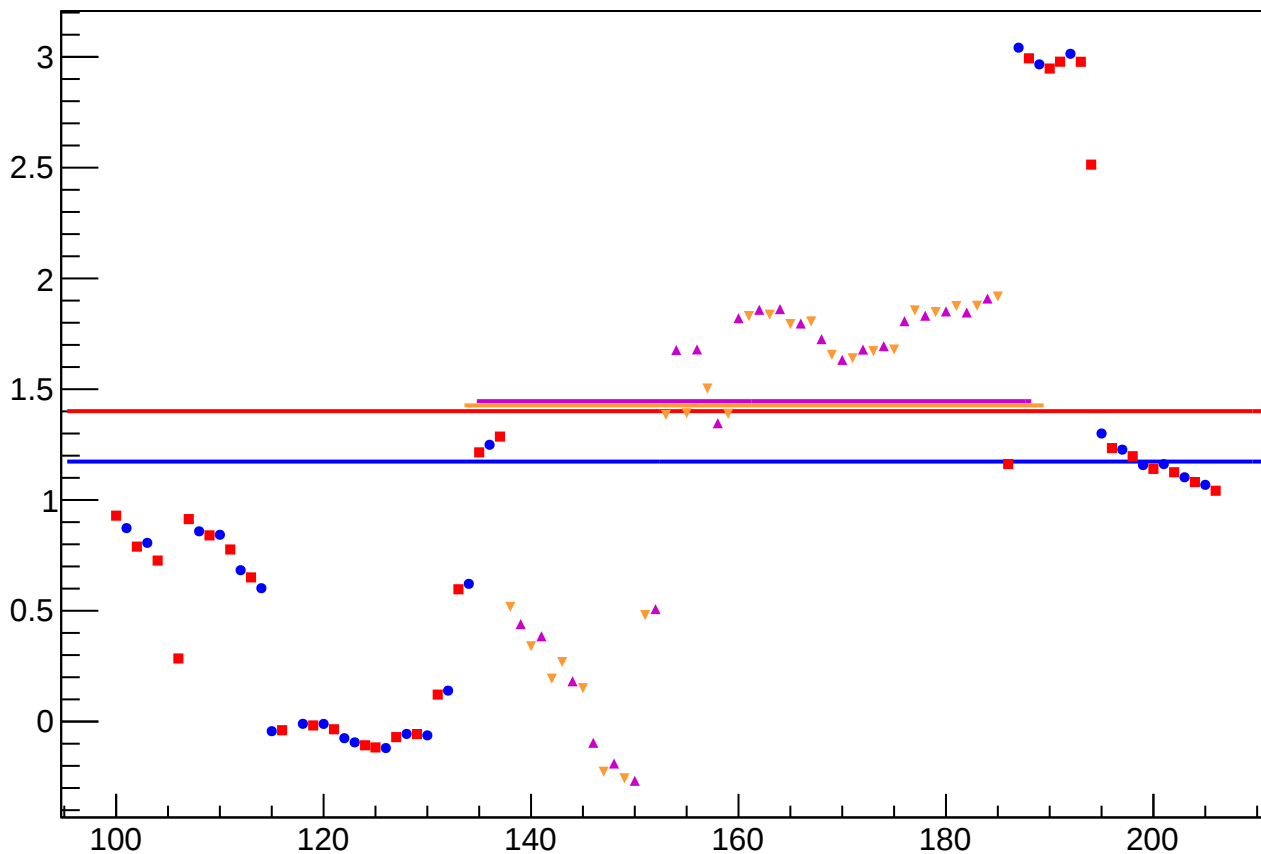
Right: 0.003+/-0.000 χ^2/NDF : 8536702.0/56

In: 0.003+/-0.000 χ^2/NDF : 9398783.1/48

Out: 0.003+/-0.000 χ^2/NDF : 10787904.1/55

All: 0.003+/-0.000 χ^2/NDF : 20237598.7/104

yield_bpm1i06X_mean vs Slug, Sign Corrected



Right In: 1.173+/-0.000

χ^2/NDF : 72688820806.7/25

Left: 1.436+/-0.000 χ^2/NDF : 103768857952.7/47

Right: 1.298+/-0.000 χ^2/NDF : 174919569222.7/56

Left Out: 1.427+/-0.000

χ^2/NDF : 49990787038.3/24

In: 1.349+/-0.000 χ^2/NDF : 130065084913.5/48

Right Out: 1.401+/-0.000

χ^2/NDF : 100090758171.1/30

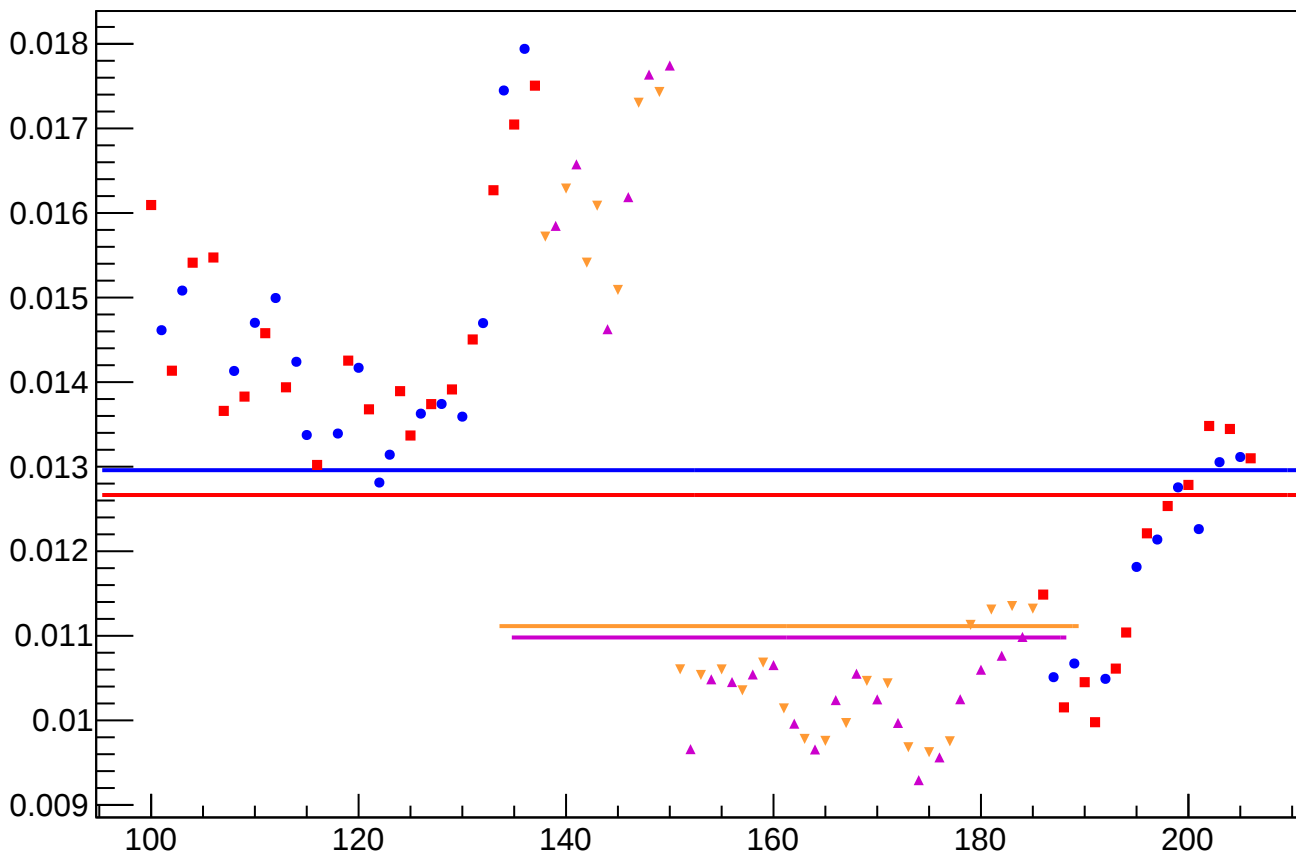
Out: 1.417+/-0.000 χ^2/NDF : 150118805423.1/55

Left In: 1.446+/-0.000

χ^2/NDF : 53752493130.3/22

All: 1.385+/-0.000 χ^2/NDF : 280690689793.5

yield_bpm1i06X_rms vs Slug, Sign Corrected



Right In: 0.013 $\pm$ 0.000 χ^2/NDF : 435031.3/25

Left Out: 0.011 $\pm$ 0.000 χ^2/NDF :1227493.2/24

Right Out: 0.013 $\pm$ 0.000 χ^2/NDF : 560512.1/30

Left In: 0.011 $\pm$ 0.000 χ^2/NDF :1264827.0/22

Left: 0.011 $\pm$ 0.000 χ^2/NDF : 2494847.1/47

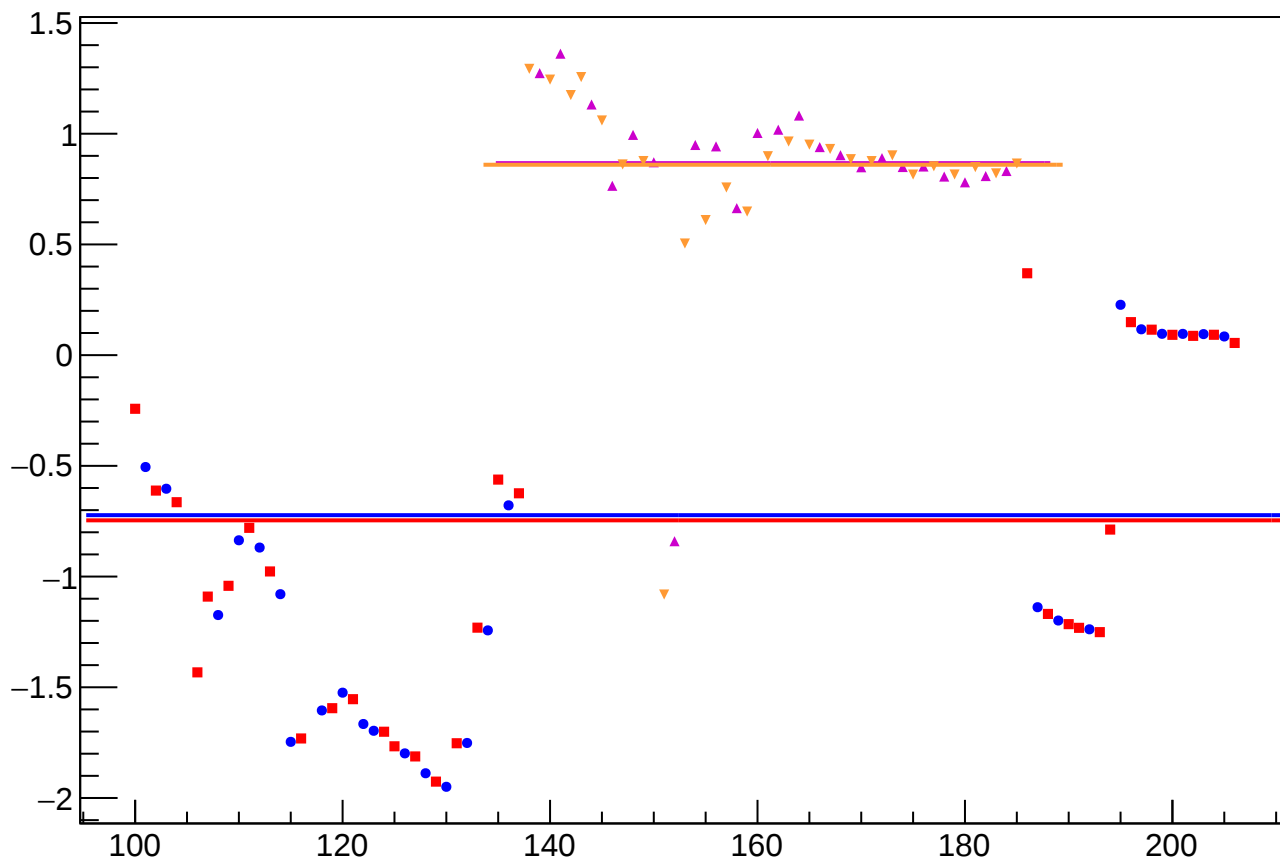
Right: 0.013 $\pm$ 0.000 χ^2/NDF : 1002659.7/56

In: 0.012 $\pm$ 0.000 χ^2/NDF :2081185.7/48

Out: 0.012 $\pm$ 0.000 χ^2/NDF :2054850.2/55

All: 0.012 $\pm$ 0.000 χ^2/NDF : 4136358.8/104

yield_bpm1i06Y_mean vs Slug, Sign Corrected



Right In: -0.723+/-0.000 χ^2/NDF : 161885399473.0/25

Left Out: 0.860+/-0.000 χ^2/NDF : 126335891175.4/24

Right Out: -0.746+/-0.000 χ^2/NDF : 156567645063.5/30

Left In: 0.867+/-0.000 χ^2/NDF : 147039402944.6/22

Left: 0.863+/-0.000 χ^2/NDF : 273407894621.9/47

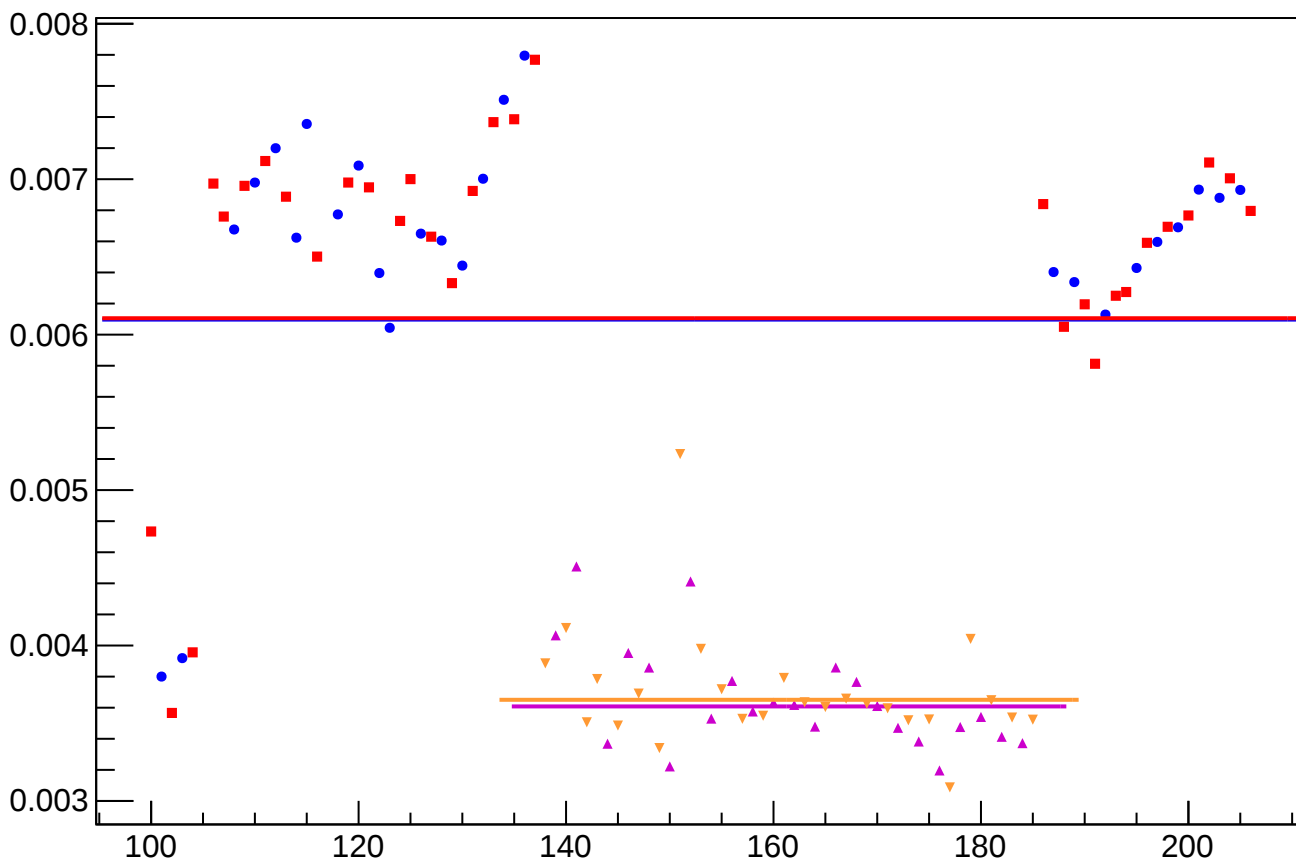
Right: -0.735+/-0.000 χ^2/NDF : 318547006820.1/56

In: 0.534+/-0.000 χ^2/NDF : 948714898920.8/48

Out: 0.494+/-0.000 χ^2/NDF : 1020298484170.4/55

All: 0.513+/-0.000 χ^2/NDF : 1970287821660.

yield_bpm1i06Y_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 981391.2/25

Left Out: 0.004+/-0.000 χ^2/NDF : 237262.6/24

Right Out: 0.006+/-0.000 χ^2/NDF : 1088818.2/30

Left In: 0.004+/-0.000 χ^2/NDF : 227861.4/22

Left: 0.004+/-0.000 χ^2/NDF : 467360.2/47

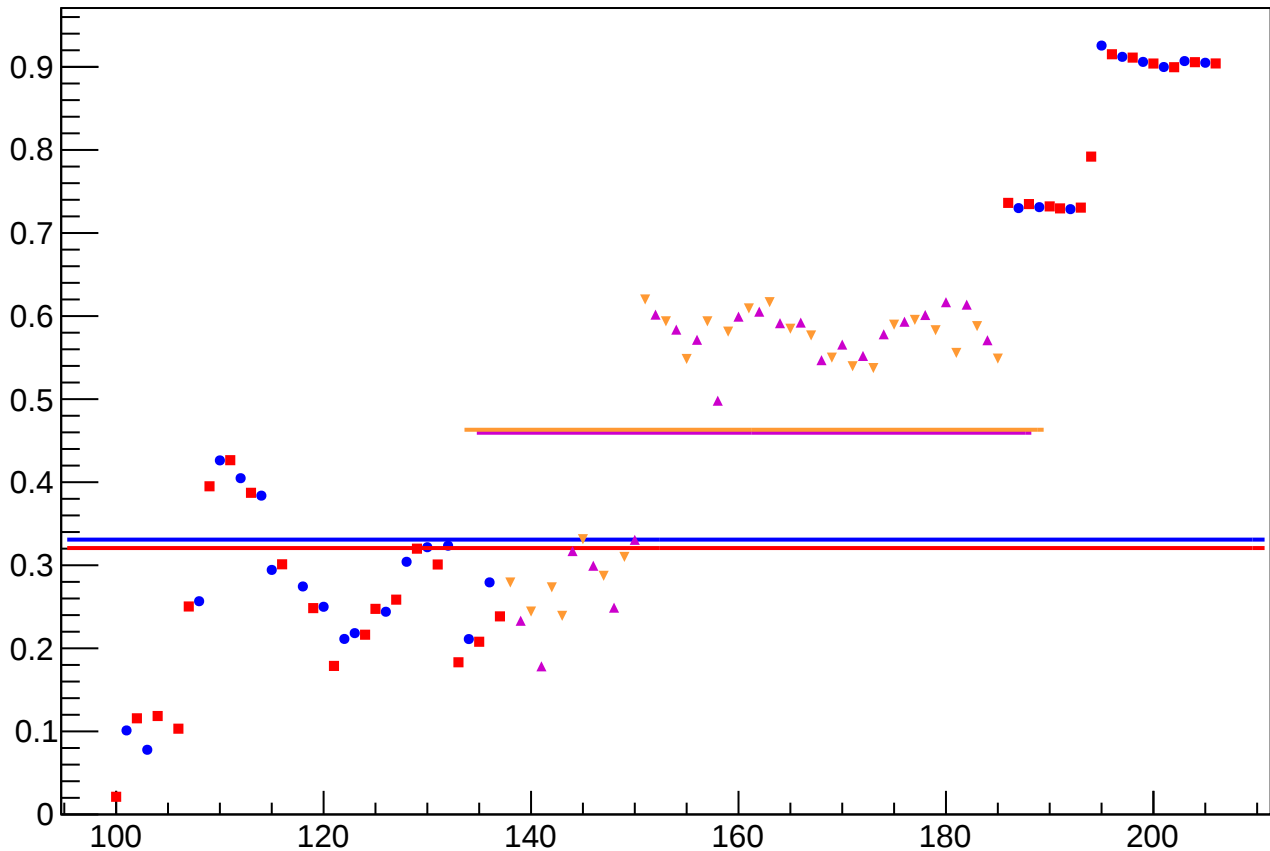
Right: 0.006+/-0.000 χ^2/NDF : 2070235.4/56

In: 0.004+/-0.000 χ^2/NDF : 4344493.8/48

Out: 0.004+/-0.000 χ^2/NDF : 4771550.6/55

All: 0.004+/-0.000 χ^2/NDF : 9126305.5/104

yield_bpm2i01X_mean vs Slug, Sign Corrected



Right In: 0.331+/-0.000 χ^2/NDF : 134582616285.6/25

Left Out: 0.463+/-0.000 χ^2/NDF : 102506270538.7/24

Right Out: 0.321+/-0.000 χ^2/NDF : 163148228291.5/30

Left In: 0.460+/-0.000 χ^2/NDF : 104559088628.4/22

Left: 0.461+/-0.000 χ^2/NDF : 207093695005.5/47

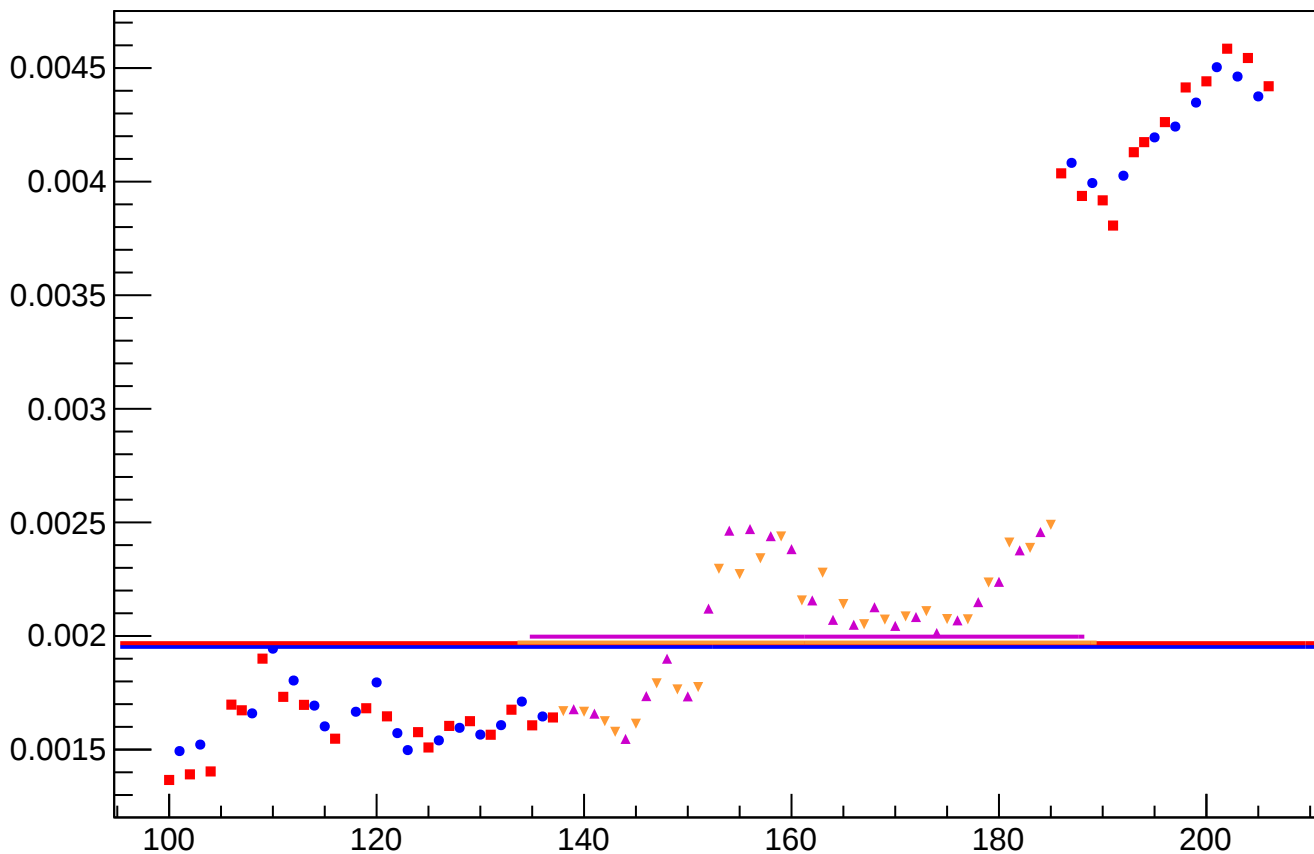
Right: 0.325+/-0.000 χ^2/NDF : 297883934967.3/56

In: 0.408+/-0.000 χ^2/NDF : 266856225226.0/48

Out: 0.405+/-0.000 χ^2/NDF : 303638157197.9/55

All: 0.407+/-0.000 χ^2/NDF : 570531665074.9

yield_bpm2i01X_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 4287121.3/25

Left Out: 0.002+/-0.000 χ^2/NDF : 730203.8/24

Right Out: 0.002+/-0.000 χ^2/NDF : 5448723.4/30

Left In: 0.002+/-0.000 χ^2/NDF : 666404.2/22

Left: 0.002+/-0.000 χ^2/NDF : 1399578.1/47

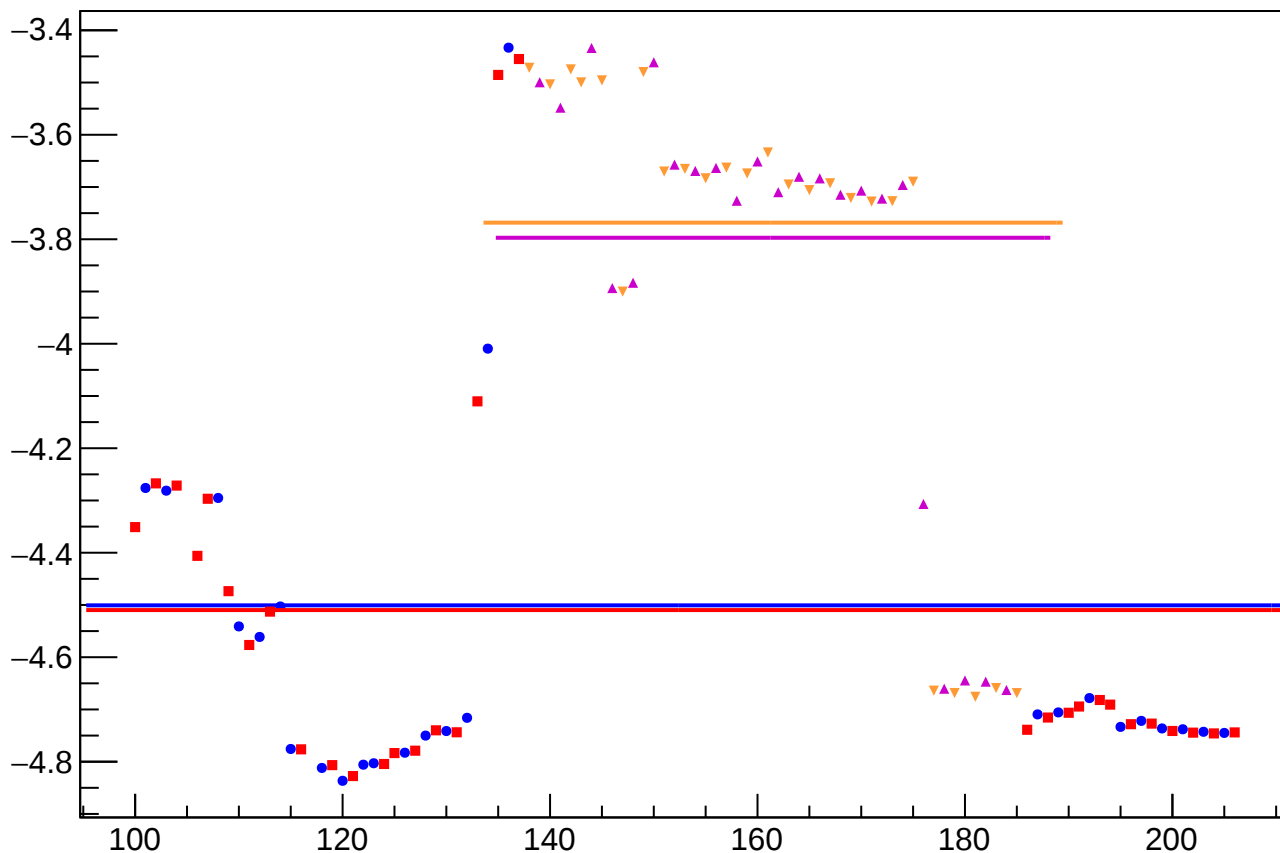
Right: 0.002+/-0.000 χ^2/NDF : 9736618.7/56

In: 0.002+/-0.000 χ^2/NDF : 4960253.4/48

Out: 0.002+/-0.000 χ^2/NDF : 6178953.5/55

All: 0.002+/-0.000 χ^2/NDF : 11139834.0/104

yield_bpm2i01Y_mean vs Slug, Sign Corrected



Right In: -4.501+/-0.000

χ^2/NDF : 429754434552.2/25

Left: -3.782+/-0.000

χ^2/NDF : 963205684454.6/47

Left Out: -3.768+/-0.000

χ^2/NDF : 516780173940.8/24

Right: -4.506+/-0.000

χ^2/NDF : 799976494329.1/56

Right Out: -4.510+/-0.000

χ^2/NDF : 370111469083.7/30

In: -4.092+/-0.000

χ^2/NDF : 1611843223562.0/48

Out: -4.086+/-0.000

χ^2/NDF : 1785928395633.3/55

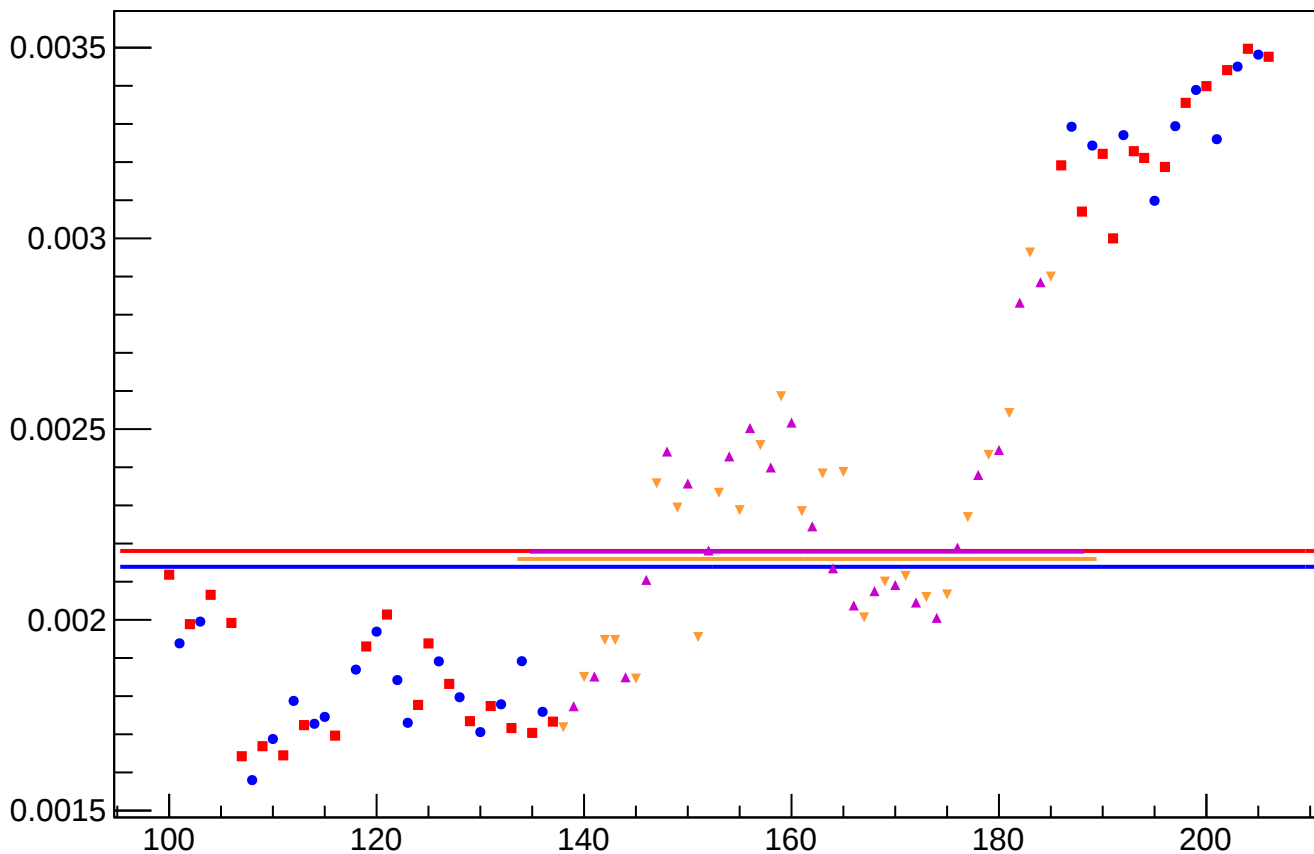
Left In: -3.797+/-0.000

χ^2/NDF : 444886272608.9/22

All: -4.089+/-0.000

χ^2/NDF : 3397890691660

yield_bpm2i01Y_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 2068818.6/25

Left Out: 0.002+/-0.000 χ^2/NDF :547831.5/24

Right Out: 0.002+/-0.000 χ^2/NDF : 2524687.9/30

Left In: 0.002+/-0.000 χ^2/NDF :463279.7/22

Left: 0.002+/-0.000 χ^2/NDF : 1012449.5/47

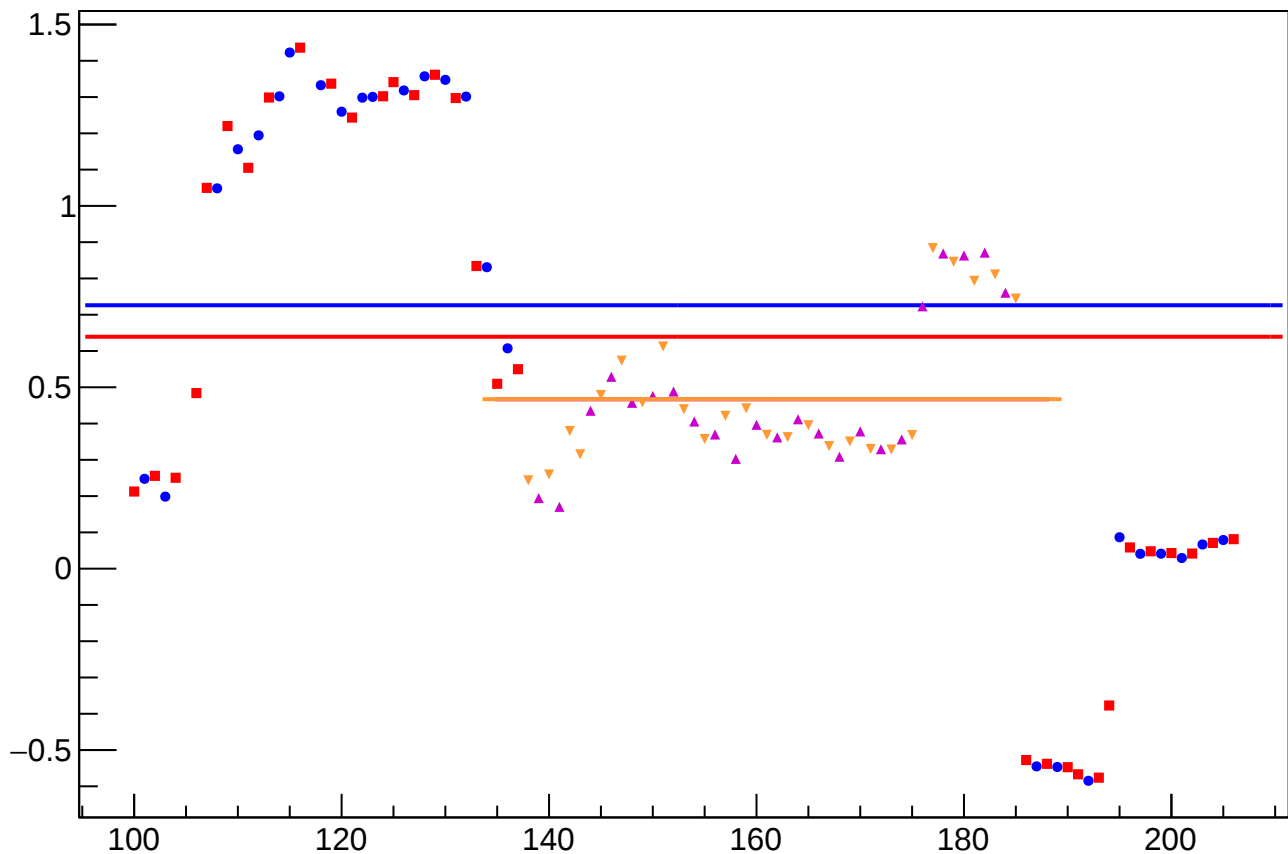
Right: 0.002+/-0.000 χ^2/NDF : 4598183.2/56

In: 0.002+/-0.000 χ^2/NDF :2536782.1/48

Out: 0.002+/-0.000 χ^2/NDF :3073961.0/55

All: 0.002+/-0.000 χ^2/NDF : 5611017.9/104

yield_bpm2i02X_mean vs Slug, Sign Corrected



Right In: 0.726+/-0.000 χ^2/NDF : 73000080881.8/25

Left Out: 0.467+/-0.000 χ^2/NDF : 7359344143.3/24

Right Out: 0.639+/-0.000 χ^2/NDF : 95846651044.8/30

Left In: 0.467+/-0.000 χ^2/NDF : 8036741308.0/22

Left: 0.467+/-0.000 χ^2/NDF : 15396100488.4/47

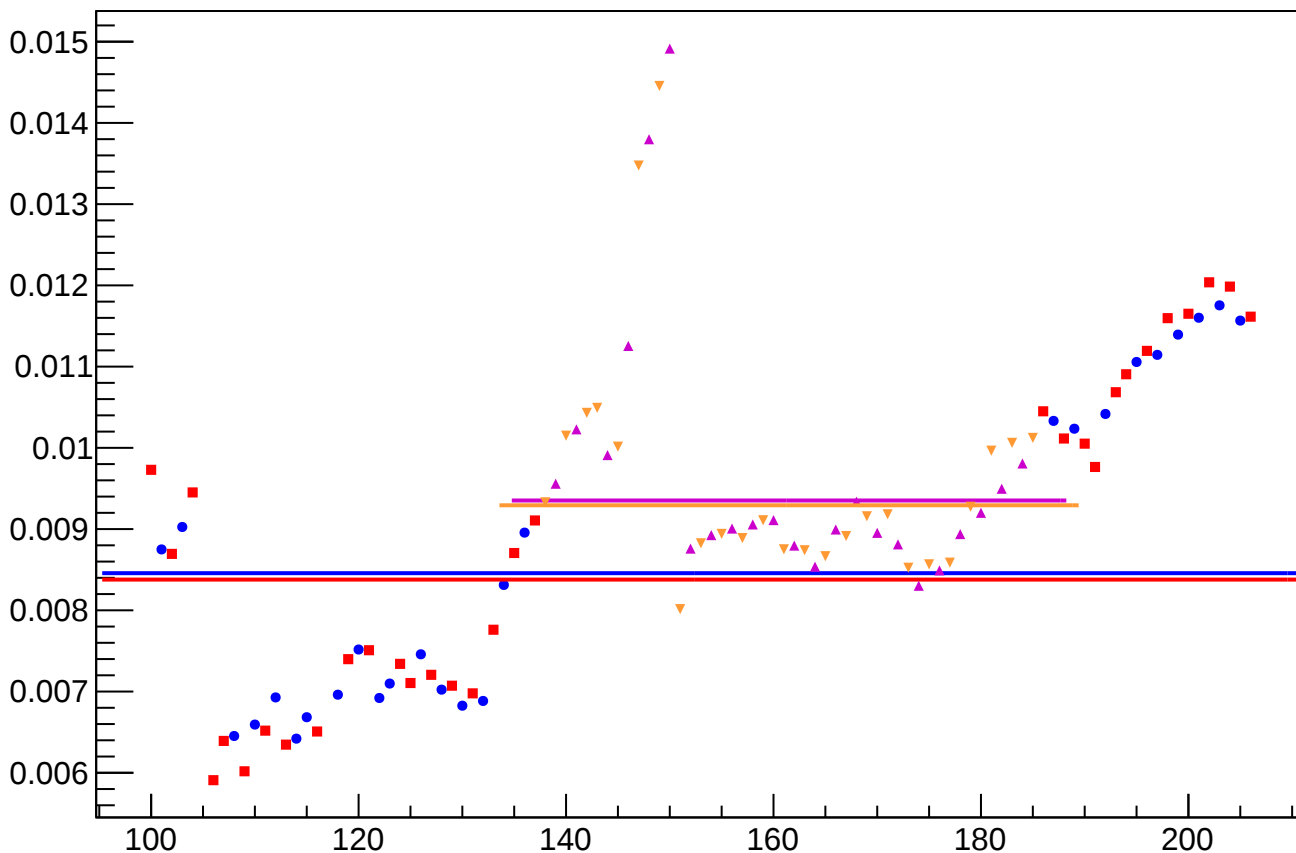
Right: 0.679+/-0.000 χ^2/NDF : 169549886994.7/56

In: 0.589+/-0.000 χ^2/NDF : 87185223281.1/48

Out: 0.552+/-0.000 χ^2/NDF : 106252262111.9/55

All: 0.569+/-0.000 χ^2/NDF : 193702553892.4

yield_bpm2i02X_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 1225034.8/25

Left Out: 0.009+/-0.000 χ^2/NDF :528279.5/24

Right Out: 0.008+/-0.000 χ^2/NDF : 1686297.9/30

Left In: 0.009+/-0.000 χ^2/NDF :557555.2/22

Left: 0.009+/-0.000 χ^2/NDF : 1086539.3/47

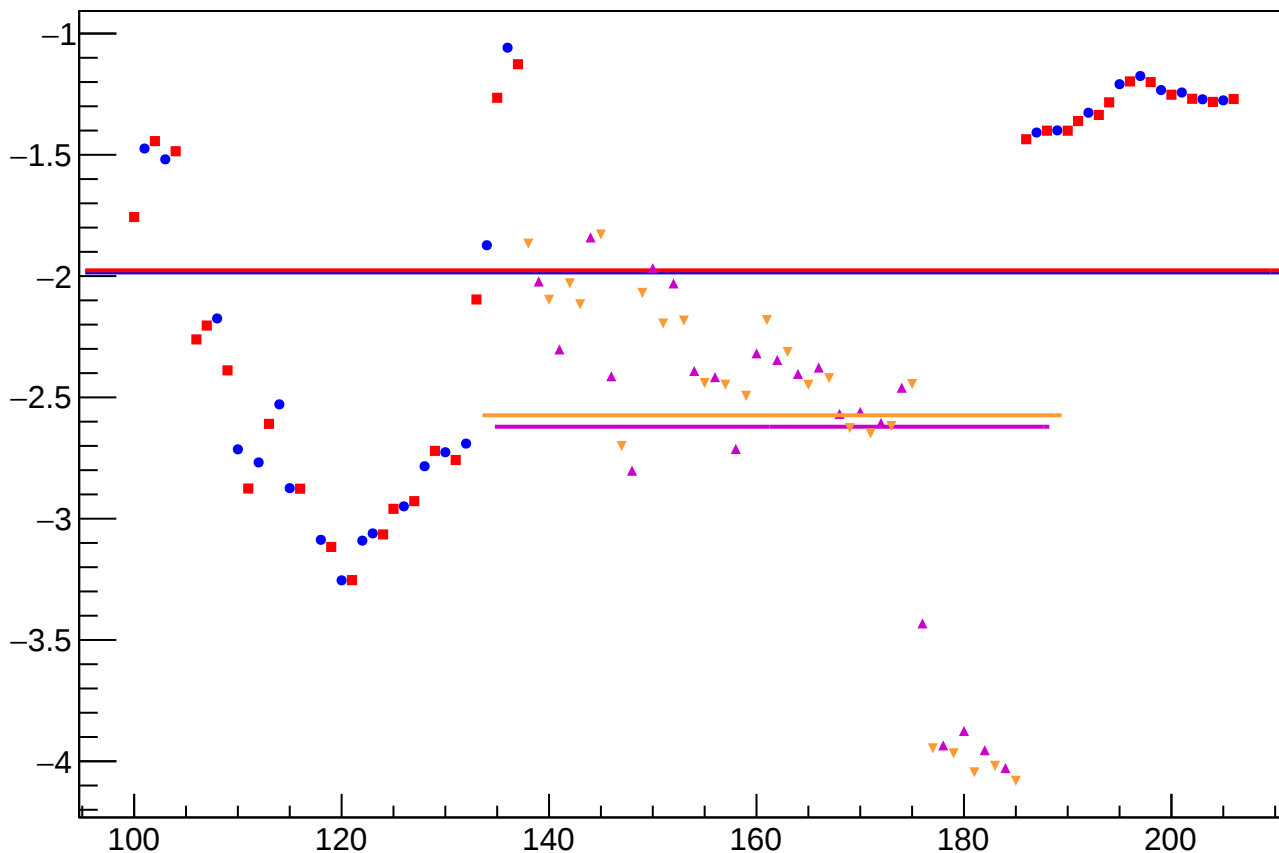
Right: 0.008+/-0.000 χ^2/NDF : 2912493.9/56

In: 0.009+/-0.000 χ^2/NDF :1929001.8/48

Out: 0.009+/-0.000 χ^2/NDF :2386628.2/55

All: 0.009+/-0.000 χ^2/NDF : 4318646.9/104

yield_bpm2i02Y_mean vs Slug, Sign Corrected



Right In: -1.985+/-0.000

χ^2/NDF : 120741556782.4/25

Left: -2.597+/-0.000

χ^2/NDF : 180296288698.4/47

Left Out: -2.574+/-0.000

χ^2/NDF : 99176112704.9/24

Right: -1.980+/-0.000

χ^2/NDF : 242372479952.0/56

Right Out: -1.976+/-0.000

χ^2/NDF : 121622901333.7/30

In: -2.316+/-0.000

χ^2/NDF : 245081624333.8/48

Out: -2.278+/-0.000

χ^2/NDF : 263055336124.8/55

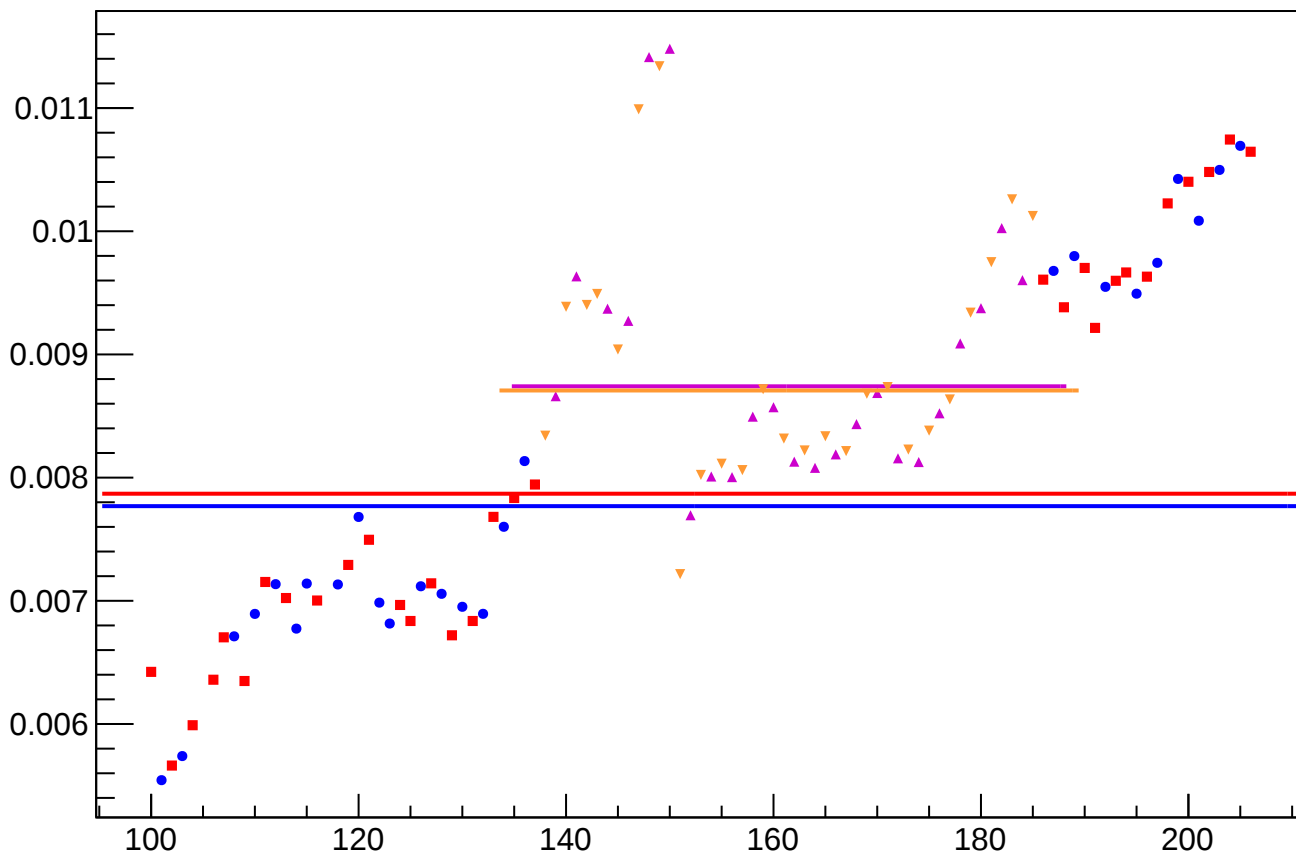
Left In: -2.621+/-0.000

χ^2/NDF : 80862402796.4/22

All: -2.296+/-0.000

χ^2/NDF : 508455704052.9/100

yield_bpm2i02Y_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 1089422.1/25

Left Out: 0.009+/-0.000 χ^2/NDF :369376.5/24

Right Out: 0.008+/-0.000 χ^2/NDF : 1233184.9/30

Left In: 0.009+/-0.000 χ^2/NDF :353750.0/22

Left: 0.009+/-0.000 χ^2/NDF : 723390.7/47

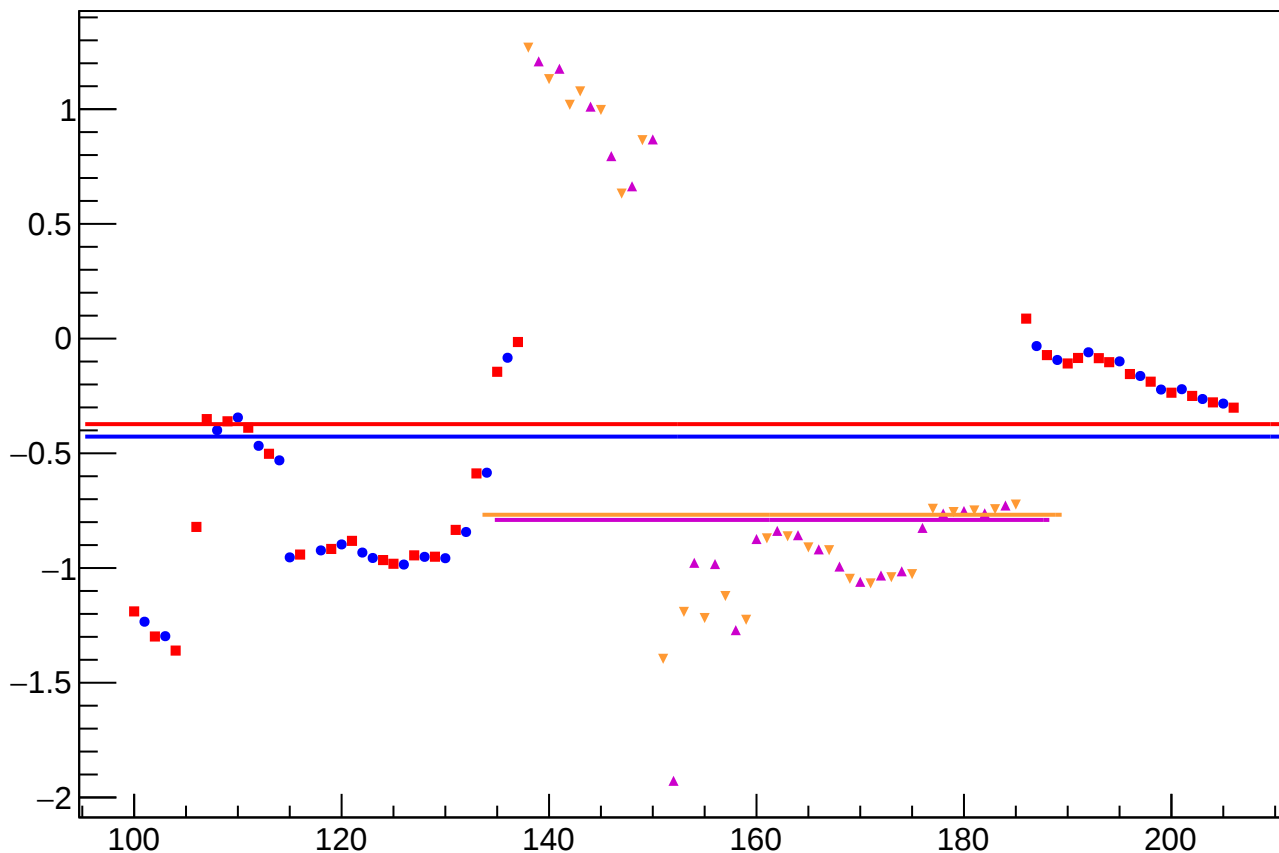
Right: 0.008+/-0.000 χ^2/NDF : 2324841.6/56

In: 0.008+/-0.000 χ^2/NDF :1646529.8/48

Out: 0.008+/-0.000 χ^2/NDF :1768839.3/55

All: 0.008+/-0.000 χ^2/NDF : 3415519.7/104

yield_bpm0i01X_mean vs Slug, Sign Corrected



Right In: -0.427+/-0.000 χ^2/NDF : 22353496220.8/25

Left Out: -0.768+/-0.000 χ^2/NDF : 120774855982.9/24

Right Out: -0.373+/-0.000 χ^2/NDF : 25076139288.6/30

Left In: -0.790+/-0.000 χ^2/NDF : 123452478408.2/22

Left: -0.779+/-0.000 χ^2/NDF : 244297726249.8/47

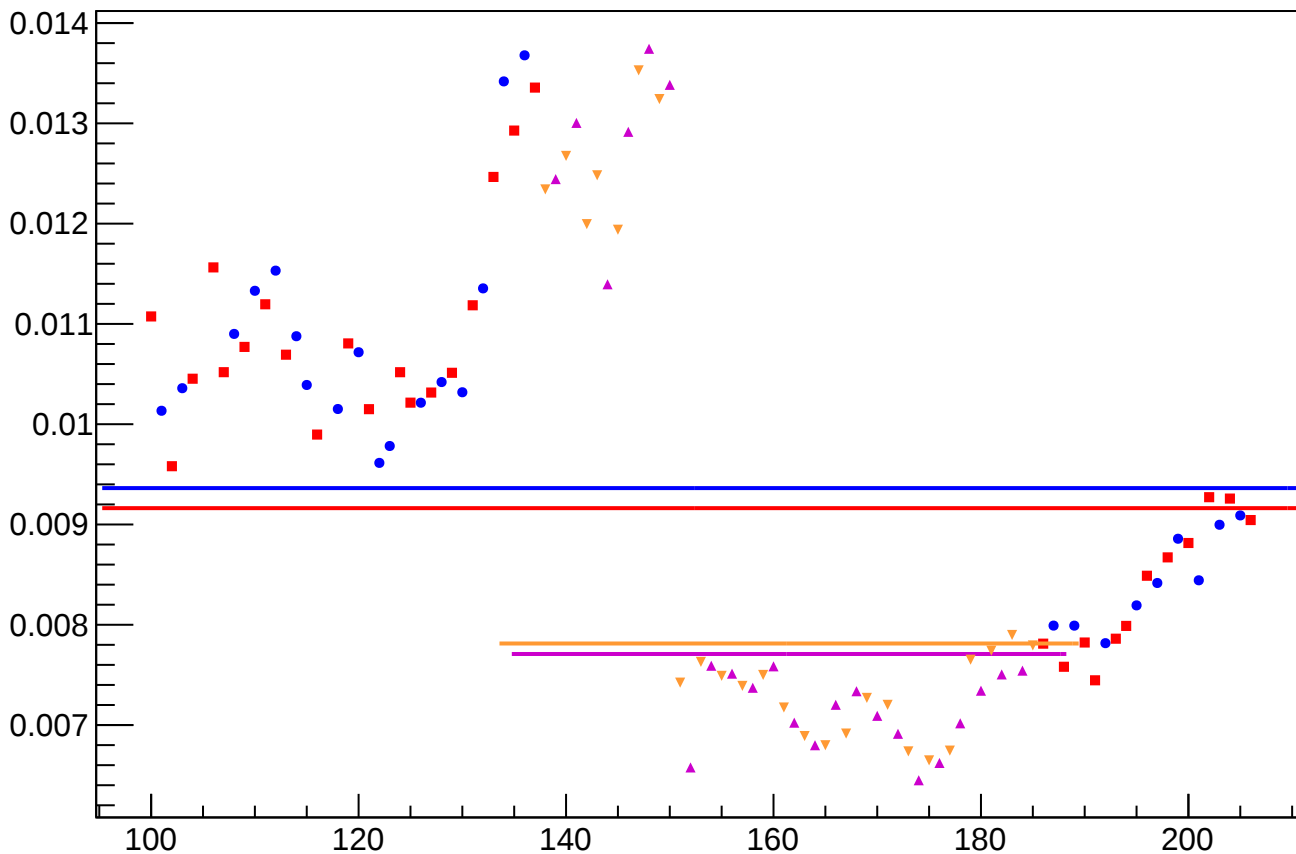
Right: -0.397+/-0.000 χ^2/NDF : 47660852584.7/56

In: -0.665+/-0.000 χ^2/NDF : 158173431957.9/48

Out: -0.618+/-0.000 χ^2/NDF : 162562099444.9/55

All: -0.640+/-0.000 χ^2/NDF : 321226634637.9

yield_bpm0i01X_rms vs Slug, Sign Corrected



Right In: 0.009+/-0.000 χ^2/NDF : 540697.8/25

Left Out: 0.008+/-0.000 χ^2/NDF :1705997.6/24

Right Out: 0.009+/-0.000 χ^2/NDF : 628464.8/30

Left In: 0.008+/-0.000 χ^2/NDF :1746653.6/22

Left: 0.008+/-0.000 χ^2/NDF : 3455681.9/47

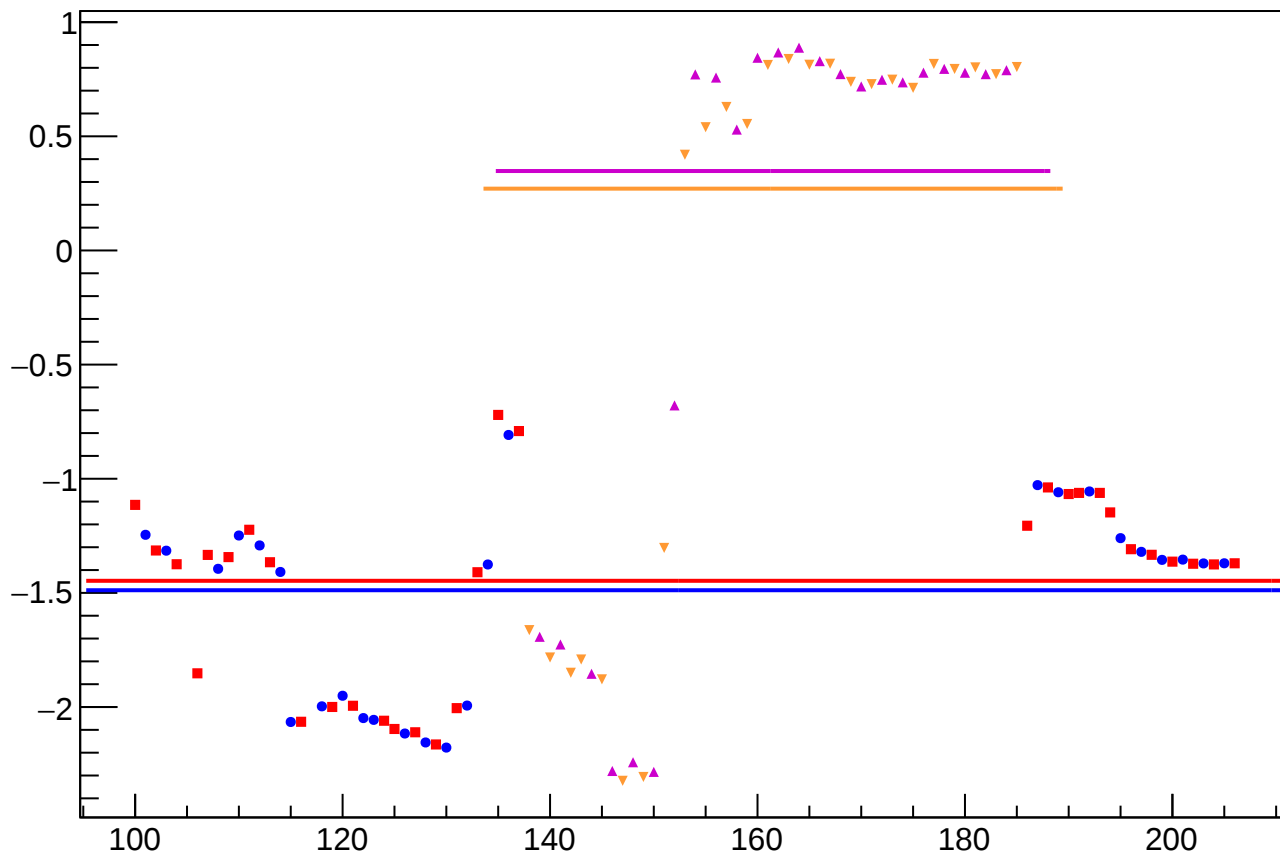
Right: 0.009+/-0.000 χ^2/NDF : 1175421.7/56

In: 0.008+/-0.000 χ^2/NDF :2800574.6/48

Out: 0.008+/-0.000 χ^2/NDF :2724734.1/55

All: 0.008+/-0.000 χ^2/NDF : 5526298.1/104

yield_bpm0i01Y_mean vs Slug, Sign Corrected



Right In: -1.488+/-0.000 χ^2/NDF : 173948014142.0/25

Left Out: 0.271+/-0.000 χ^2/NDF : 2583233987355.9/24

Right Out: -1.447+/-0.000 χ^2/NDF : 164143041521.6/30

Left In: 0.348+/-0.000 χ^2/NDF : 2274004426513.8/22

Left: 0.308+/-0.000 χ^2/NDF : 4864843200778.2/47

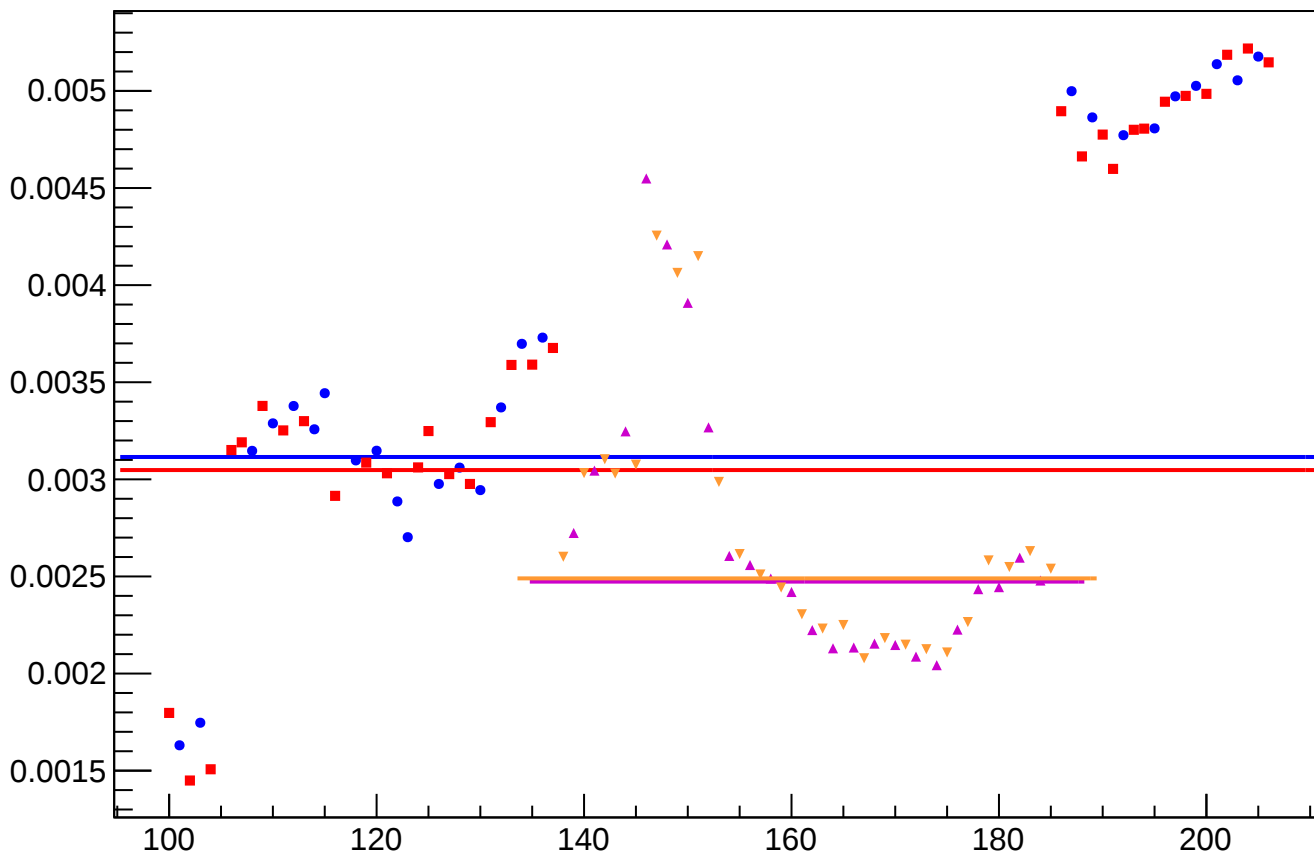
Right: -1.466+/-0.000 χ^2/NDF : 339102991307.6/56

In: -0.215+/-0.000 χ^2/NDF : 5014341774643.3/48

Out: -0.295+/-0.000 χ^2/NDF : 5295706580172.9/55

All: -0.257+/-0.000 χ^2/NDF : 1032202014390

yield_bpm0i01Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 3225561.2/25

Left Out: 0.002+/-0.000 χ^2/NDF :1070282.7/24

Right Out: 0.003+/-0.000 χ^2/NDF : 4531840.1/30

Left In: 0.002+/-0.000 χ^2/NDF :1135279.8/22

Left: 0.002+/-0.000 χ^2/NDF : 2206266.8/47

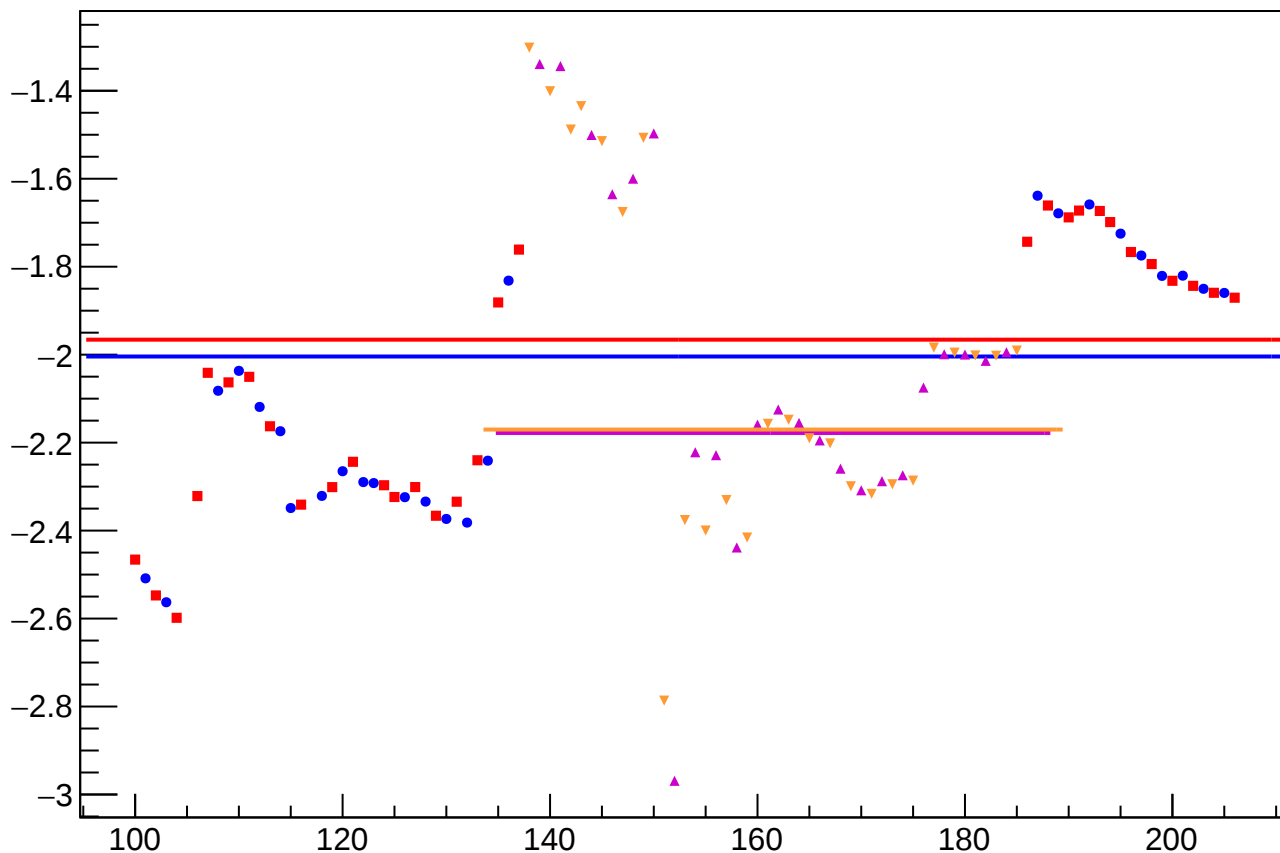
Right: 0.003+/-0.000 χ^2/NDF : 7762772.6/56

In: 0.003+/-0.000 χ^2/NDF :4987615.5/48

Out: 0.003+/-0.000 χ^2/NDF :6139447.2/55

All: 0.003+/-0.000 χ^2/NDF : 11127111.0/104

yield_bpm0i01aX_mean vs Slug, Sign Corrected



Right In: -2.004+/-0.000 χ^2/NDF : 30187328780.9/25

Left Out: -2.170+/-0.000 χ^2/NDF : 59967315241.9/24

Right Out: -1.966+/-0.000 χ^2/NDF : 34760034398.0/30

Left In: -2.178+/-0.000 χ^2/NDF : 73402051113.3/22

Left: -2.174+/-0.000 χ^2/NDF : 133392029481.5/47

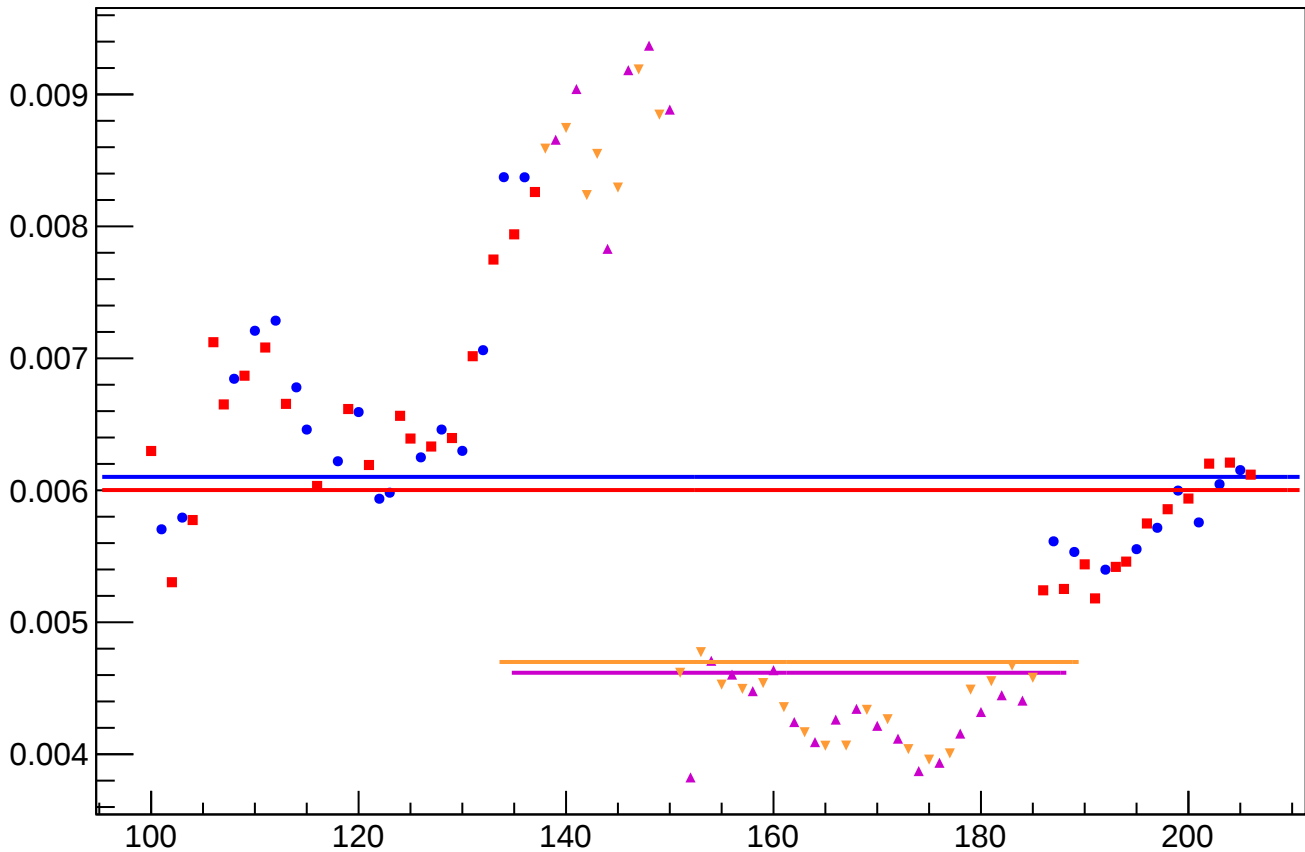
Right: -1.983+/-0.000 χ^2/NDF : 65216524064.9/56

In: -2.123+/-0.000 χ^2/NDF : 110564838561.3/48

Out: -2.099+/-0.000 χ^2/NDF : 105711057201.3/55

All: -2.111+/-0.000 χ^2/NDF : 216602255528.4

yield_bpm0i01aX_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 301884.4/25

Left Out: 0.005+/-0.000 χ^2/NDF :2319588.7/24

Right Out: 0.006+/-0.000 χ^2/NDF : 353470.1/30

Left In: 0.005+/-0.000 χ^2/NDF :2367440.9/22

Left: 0.005+/-0.000 χ^2/NDF : 4691984.4/47

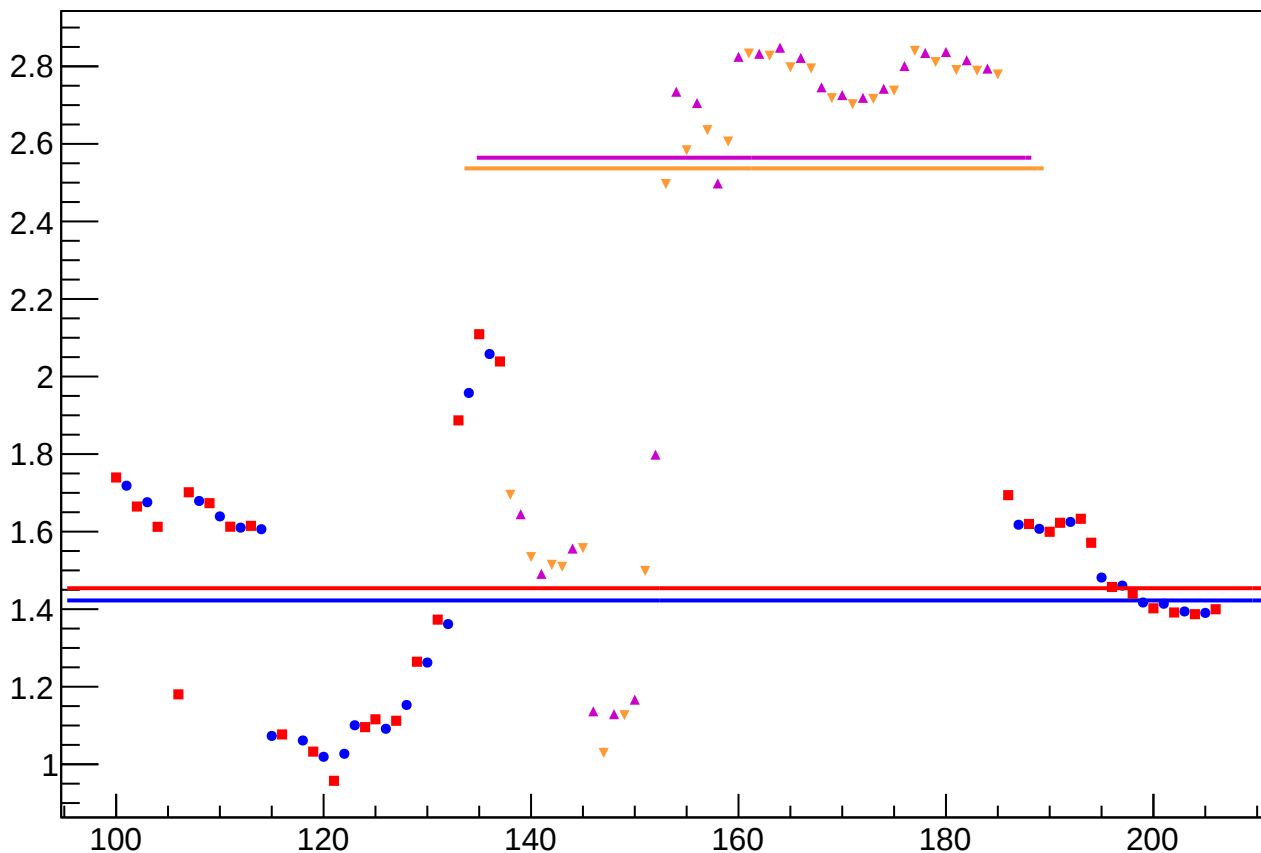
Right: 0.006+/-0.000 χ^2/NDF : 659011.3/56

In: 0.005+/-0.000 χ^2/NDF :3686073.0/48

Out: 0.005+/-0.000 χ^2/NDF :3566158.2/55

All: 0.005+/-0.000 χ^2/NDF : 7257358.6/104

yield_bpm0i01aY_mean vs Slug, Sign Corrected



Right In: 1.422 $\pm$ 0.000 χ^2 /NDF: 174135759893.8/25

Left Out: 2.537 $\pm$ 0.000 χ^2 /NDF: 269554948115.3/24

Right Out: 1.454 $\pm$ 0.000 χ^2 /NDF: 176981848754.9/30

Left In: 2.564 $\pm$ 0.000 χ^2 /NDF: 260287937727.8/22

Left: 2.550 $\pm$ 0.000 χ^2 /NDF: 530319507083.6/47

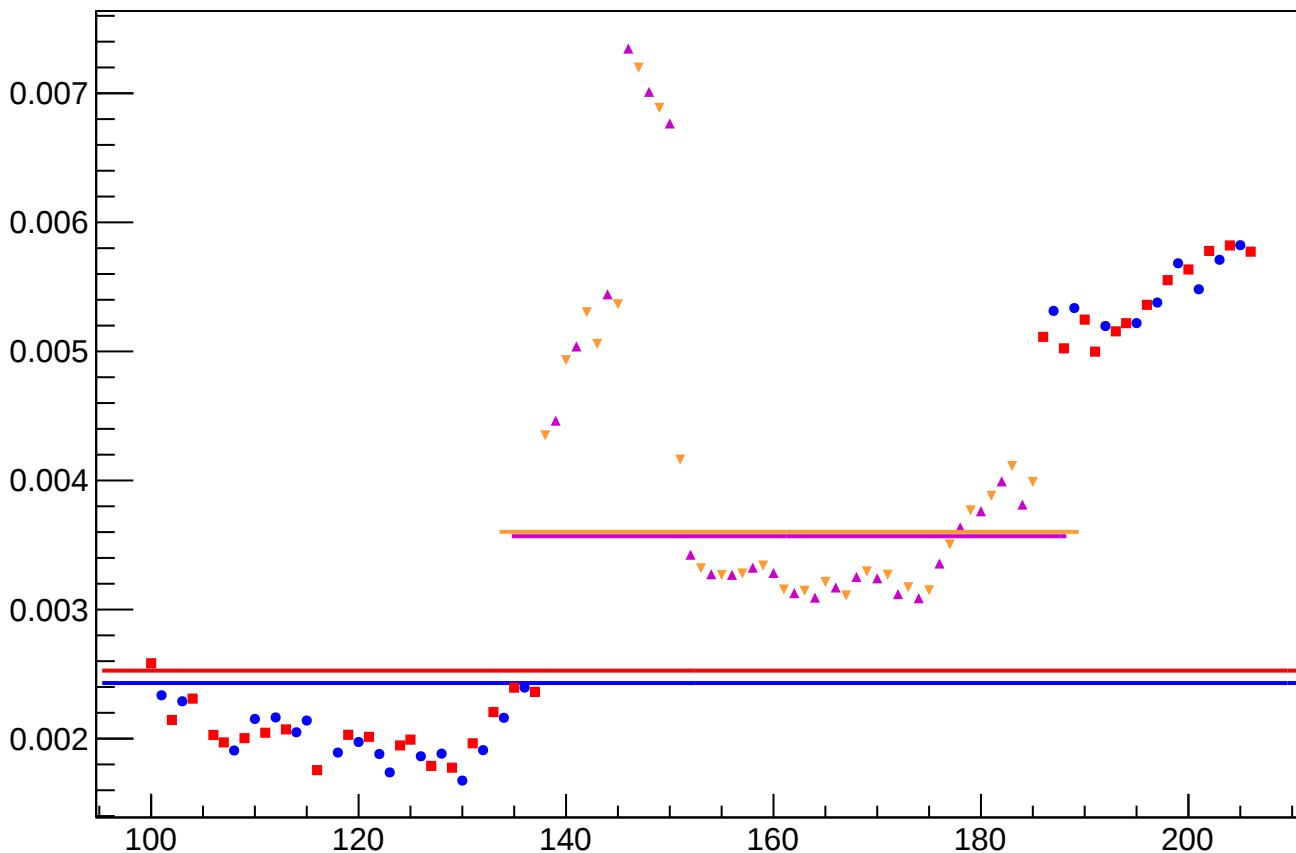
Right: 1.439 $\pm$ 0.000 χ^2 /NDF: 352006243262.6/56

In: 1.897 $\pm$ 0.000 χ^2 /NDF: 1369148563663.5/48

Out: 1.899 $\pm$ 0.000 χ^2 /NDF: 1335878615510.6/55

All: 1.898 $\pm$ 0.000 χ^2 /NDF: 2705036429390.

yield_bpm0i01aY_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 4543435.3/25

Left Out: 0.004+/-0.000 χ^2/NDF :1410717.8/24

Right Out: 0.003+/-0.000 χ^2/NDF : 5425055.8/30

Left In: 0.004+/-0.000 χ^2/NDF :1563028.0/22

Left: 0.004+/-0.000 χ^2/NDF : 2975225.3/47

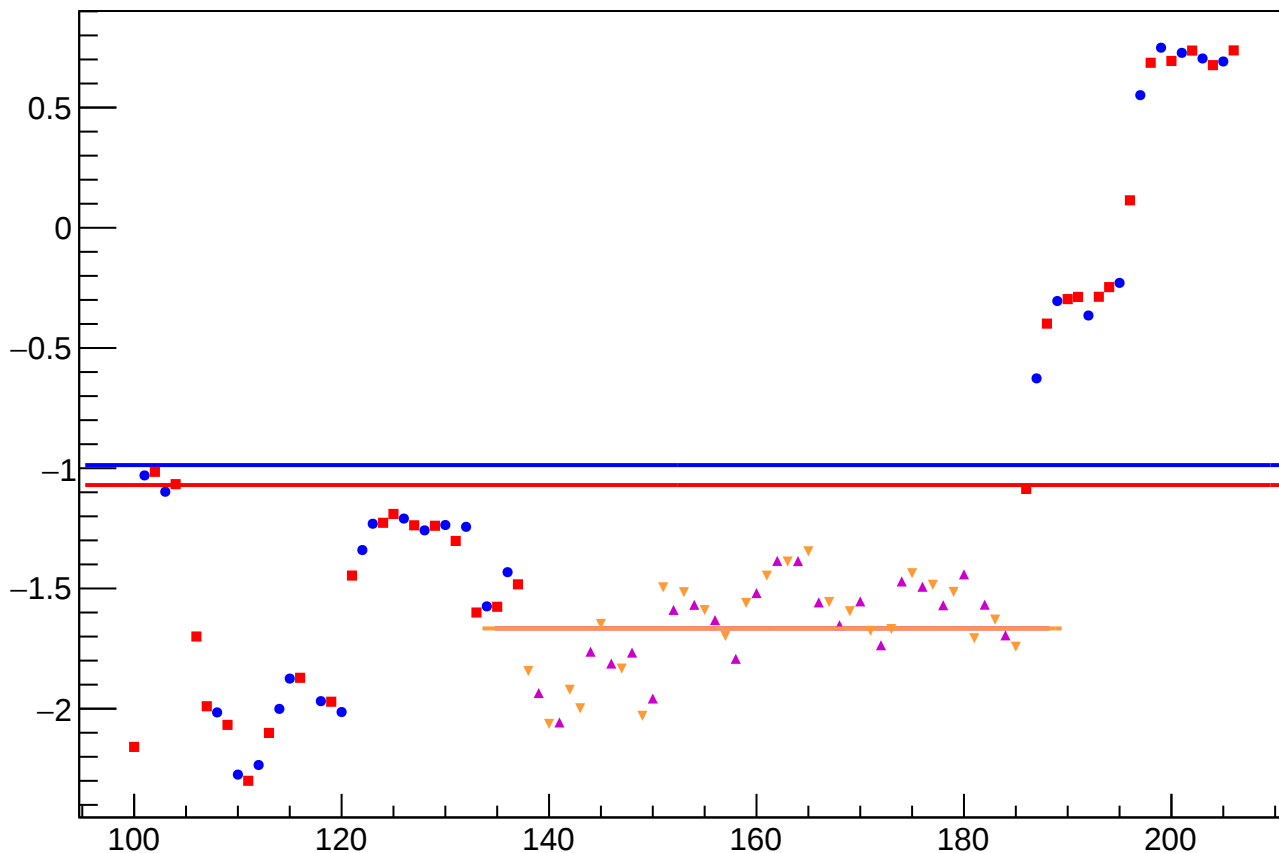
Right: 0.002+/-0.000 χ^2/NDF : 9985038.0/56

In: 0.003+/-0.000 χ^2/NDF :7961248.6/48

Out: 0.003+/-0.000 χ^2/NDF :8590325.2/55

All: 0.003+/-0.000 χ^2/NDF : 16564835.8/104

yield_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -0.987 $\pm$ 0.000

χ^2/NDF : 161466842954.9/25

Left: -1.666 $\pm$ 0.000

χ^2/NDF : 32617732948.1/47

Left Out: -1.666 $\pm$ 0.000

χ^2/NDF : 18325162131.2/24

Right: -1.032 $\pm$ 0.000

χ^2/NDF : 363778852629.9/56

Right Out: -1.070 $\pm$ 0.000

χ^2/NDF : 201579527002.6/30

In: -1.448 $\pm$ 0.000

χ^2/NDF : 236471932570.8/48

Out: -1.458 $\pm$ 0.000

χ^2/NDF : 274499806397.4/55

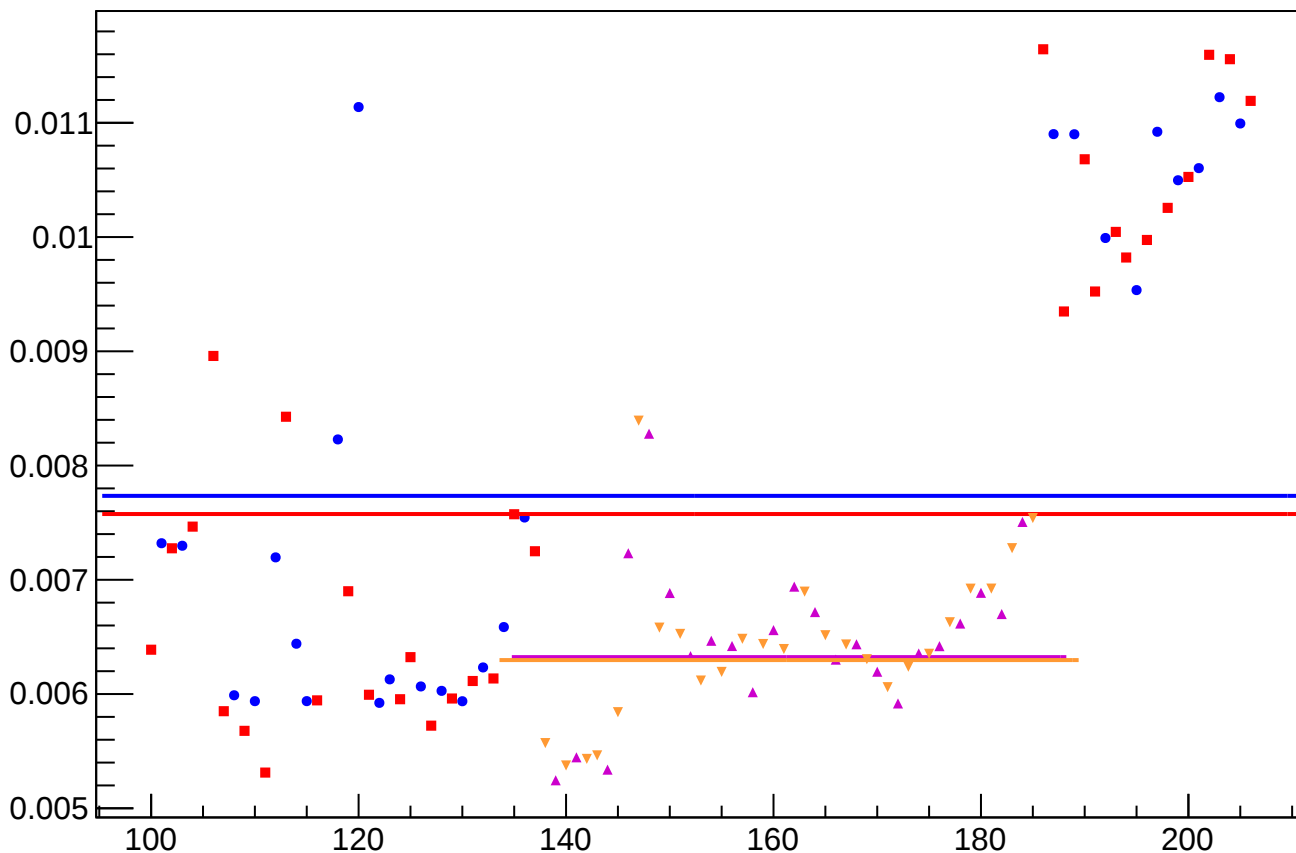
Left In: -1.666 $\pm$ 0.000

χ^2/NDF : 14292570816.9/22

All: -1.453 $\pm$ 0.000

χ^2/NDF : 511005547620.3

yield_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 1452165.7/25

Left Out: 0.006+/-0.000 χ^2/NDF :310757.0/24

Right Out: 0.008+/-0.000 χ^2/NDF : 1913205.4/30

Left In: 0.006+/-0.000 χ^2/NDF :330859.7/22

Left: 0.006+/-0.000 χ^2/NDF : 641901.9/47

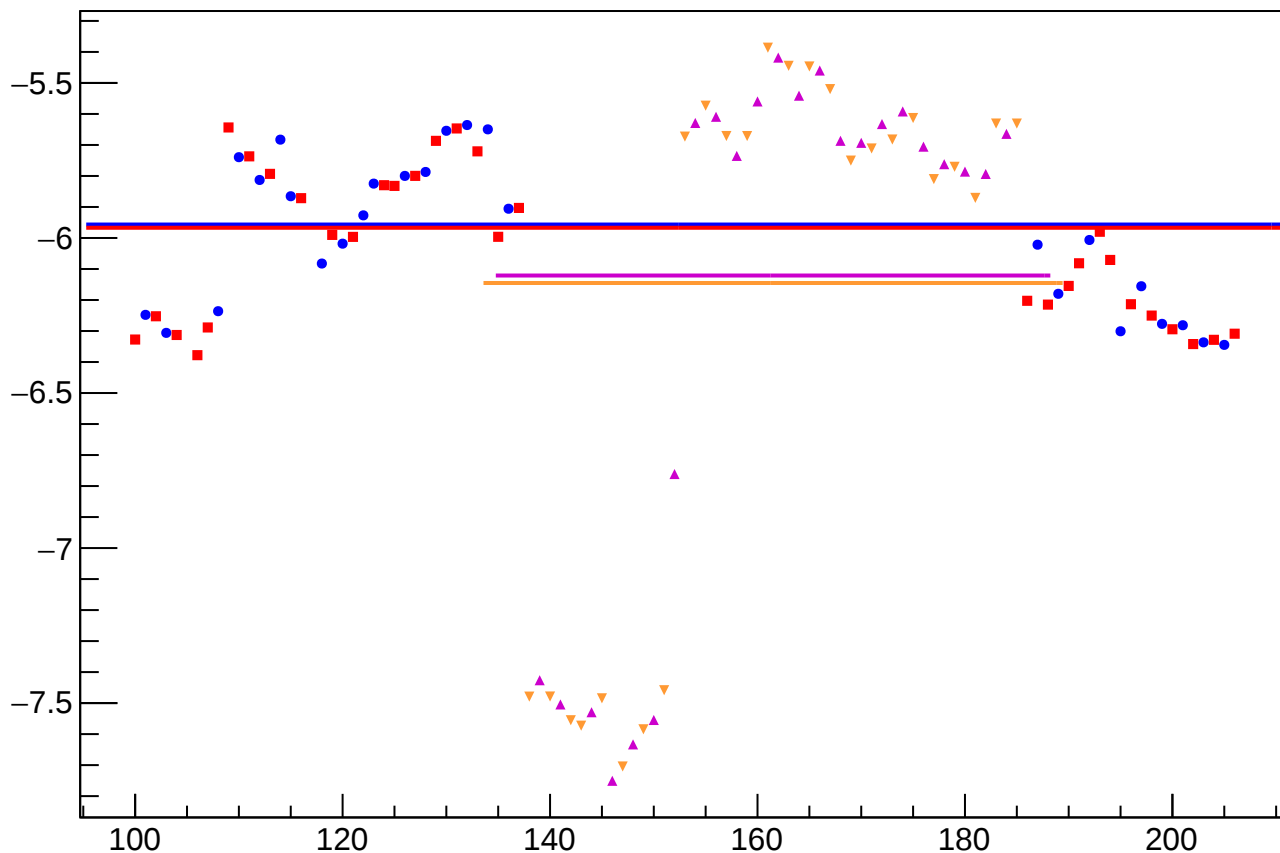
Right: 0.008+/-0.000 χ^2/NDF : 3370755.1/56

In: 0.007+/-0.000 χ^2/NDF :2307478.3/48

Out: 0.007+/-0.000 χ^2/NDF :2725956.0/55

All: 0.007+/-0.000 χ^2/NDF : 5034155.4/104

yield_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: -5.957+/-0.000 χ^2/NDF : 14510220676.2/25

Left Out: -6.145+/-0.000 χ^2/NDF : 185364150237.7/24

Right Out: -5.967+/-0.000 χ^2/NDF : 16350539656.5/30

Left In: -6.121+/-0.000 χ^2/NDF : 158315913062.3/22

Left: -6.133+/-0.000 χ^2/NDF : 343753122832.9/47

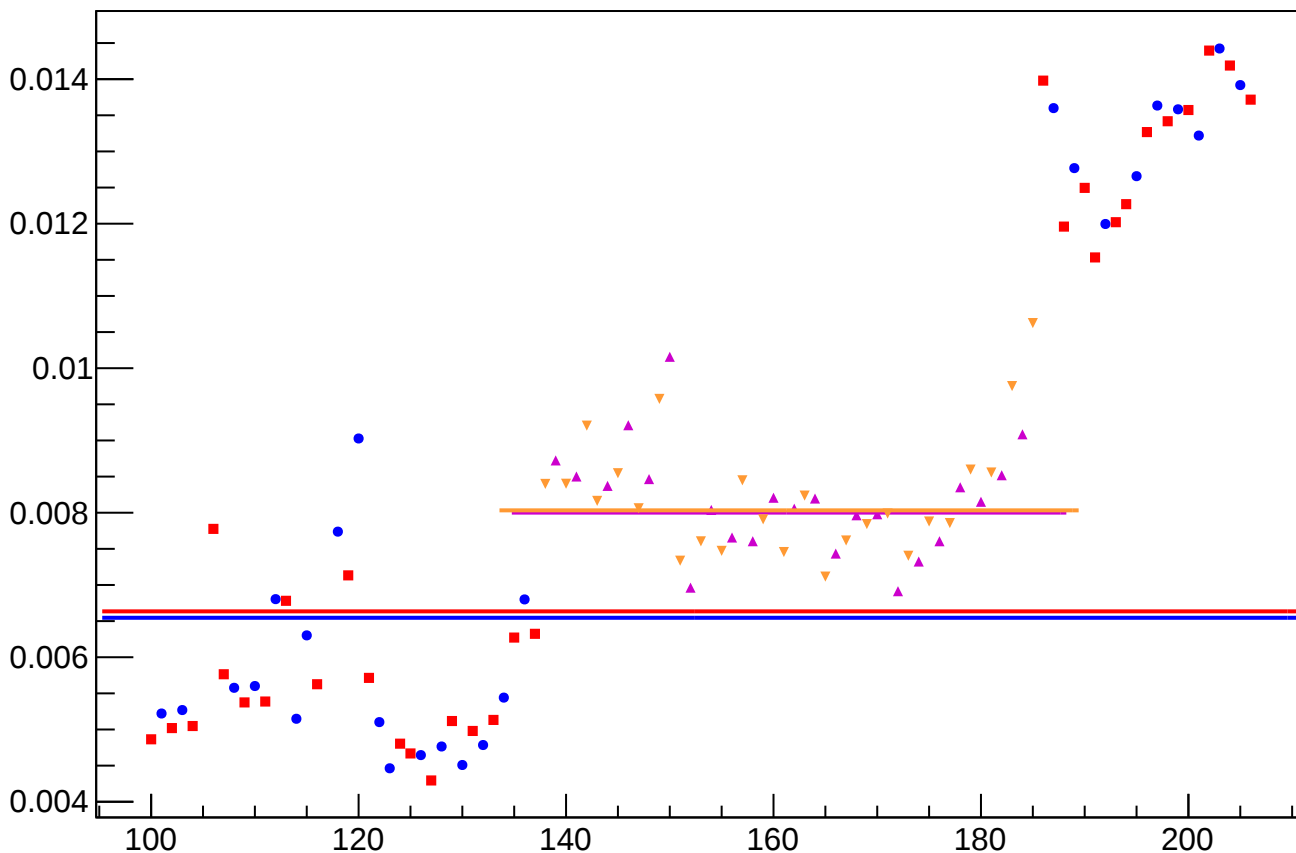
Right: -5.962+/-0.000 χ^2/NDF : 30874391281.1/56

In: -6.040+/-0.000 χ^2/NDF : 176091658092.4/48

Out: -6.054+/-0.000 χ^2/NDF : 205878468968.2/55

All: -6.048+/-0.000 χ^2/NDF : 382017327692.8

yield_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 4019264.1/25

Left Out: 0.008+/-0.000 χ^2/NDF :205762.2/24

Right Out: 0.007+/-0.000 χ^2/NDF : 4730167.4/30

Left In: 0.008+/-0.000 χ^2/NDF :220756.1/22

Left: 0.008+/-0.000 χ^2/NDF : 426763.2/47

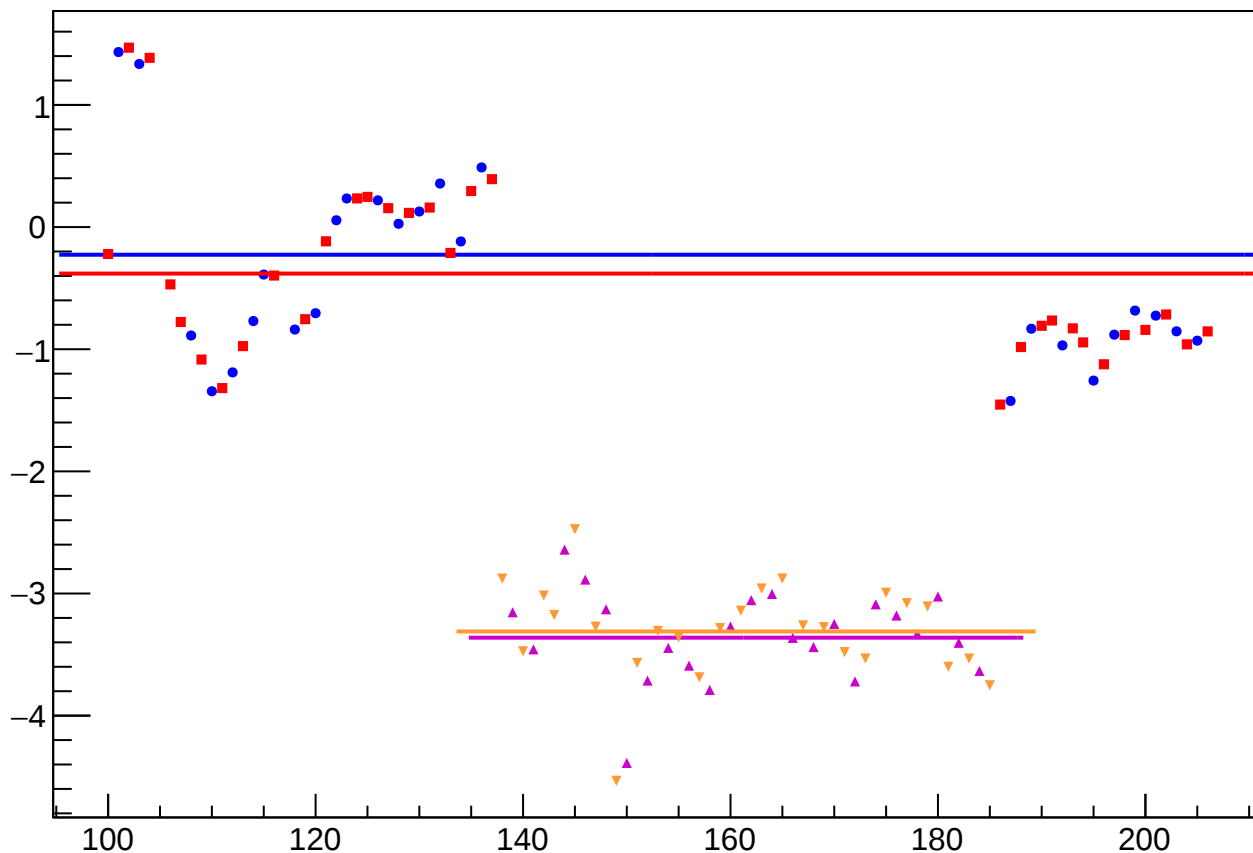
Right: 0.007+/-0.000 χ^2/NDF : 8751410.0/56

In: 0.007+/-0.000 χ^2/NDF :4751670.8/48

Out: 0.007+/-0.000 χ^2/NDF :5448856.4/55

All: 0.007+/-0.000 χ^2/NDF : 10200990.7/104

yield_bpm0l02X_mean vs Slug, Sign Corrected



Right In: -0.226+/-0.000 χ^2/NDF : 30316253402.9/25

Left Out: -3.311+/-0.000 χ^2/NDF : 9354397456.2/24

Right Out: -0.381+/-0.000 χ^2/NDF : 32434745862.3/30

Left In: -3.362+/-0.000 χ^2/NDF : 8171803777.4/22

Left: -3.336+/-0.000 χ^2/NDF : 17613895190.9/47

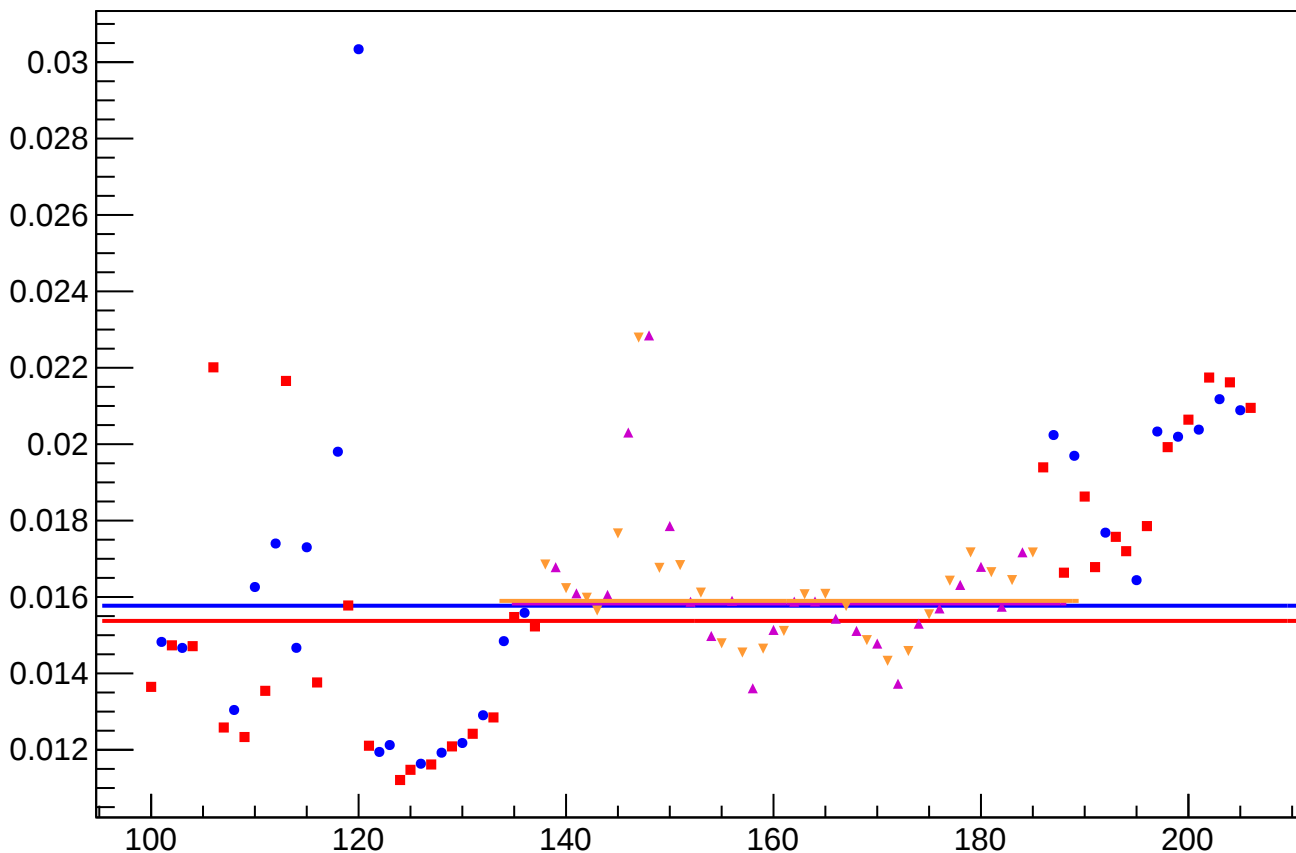
Right: -0.312+/-0.000 χ^2/NDF : 63372046820.0/56

In: -2.059+/-0.000 χ^2/NDF : 309072735817.4/48

Out: -1.978+/-0.000 χ^2/NDF : 314872288663.6/55

All: -2.016+/-0.000 χ^2/NDF : 624339069939.2

yield_bpm0l02X_rms vs Slug, Sign Corrected



Right In: 0.016+/-0.000 χ^2/NDF : 1115952.7/25

Left Out: 0.016+/-0.000 χ^2/NDF :251912.7/24

Right Out: 0.015+/-0.000 χ^2/NDF : 1262556.7/30

Left In: 0.016+/-0.000 χ^2/NDF :339542.1/22

Left: 0.016+/-0.000 χ^2/NDF : 591766.7/47

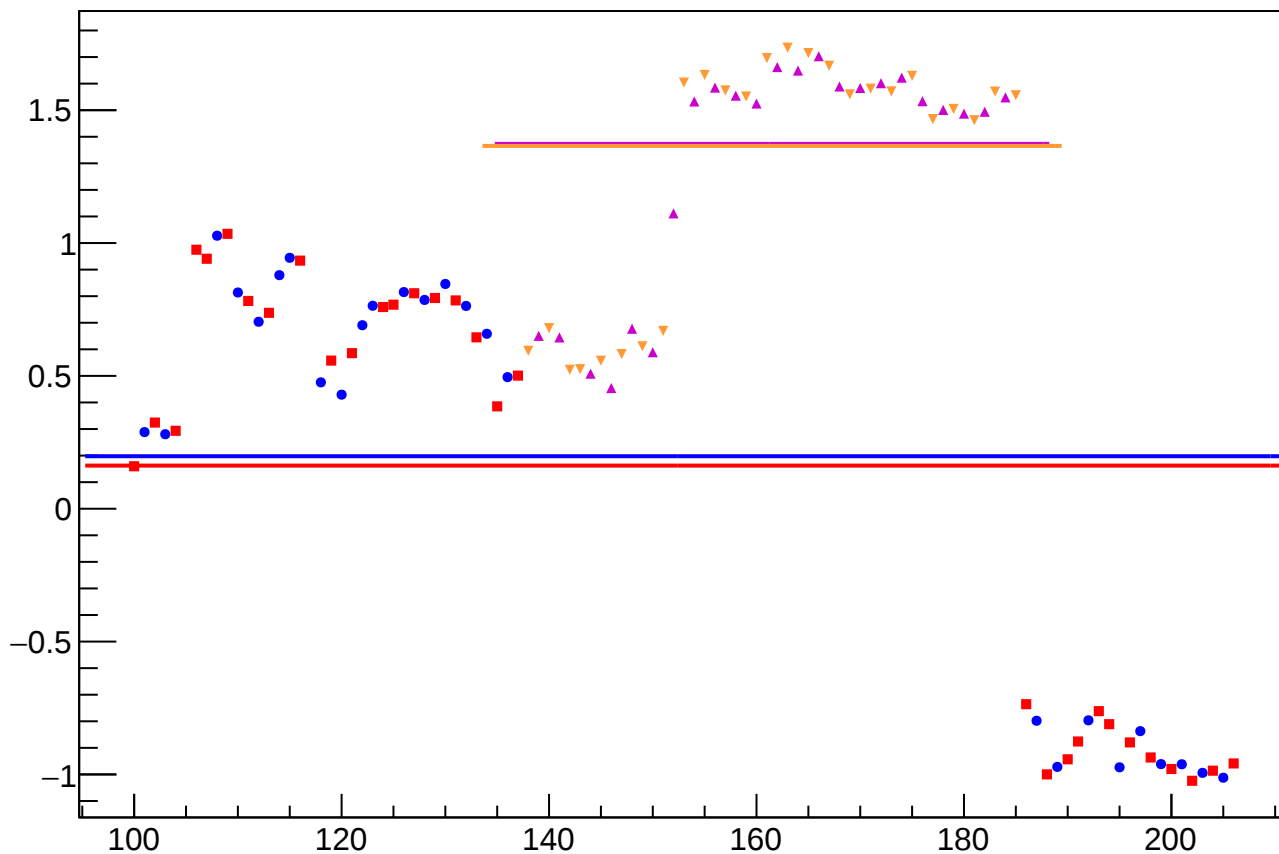
Right: 0.016+/-0.000 χ^2/NDF : 2386744.3/56

In: 0.016+/-0.000 χ^2/NDF :1455687.1/48

Out: 0.016+/-0.000 χ^2/NDF :1531958.5/55

All: 0.016+/-0.000 χ^2/NDF : 2990218.0/104

yield_bpm0l02Y_mean vs Slug, Sign Corrected



Right In: 0.198 $\pm$ 0.000

χ^2 /NDF: 67257867962.5/25

Left: 1.369 $\pm$ 0.000 χ^2 /NDF: 138167468300.7/47

Right: 0.178 $\pm$ 0.000 χ^2 /NDF: 151473348371.9/56

Left Out: 1.366 $\pm$ 0.000

χ^2 /NDF: 74741956067.9/24

In: 1.098 $\pm$ 0.000 χ^2 /NDF: 268852105161.1/48

Out: 1.043 $\pm$ 0.000 χ^2 /NDF: 324031004173.9/55

Right Out: 0.162 $\pm$ 0.000

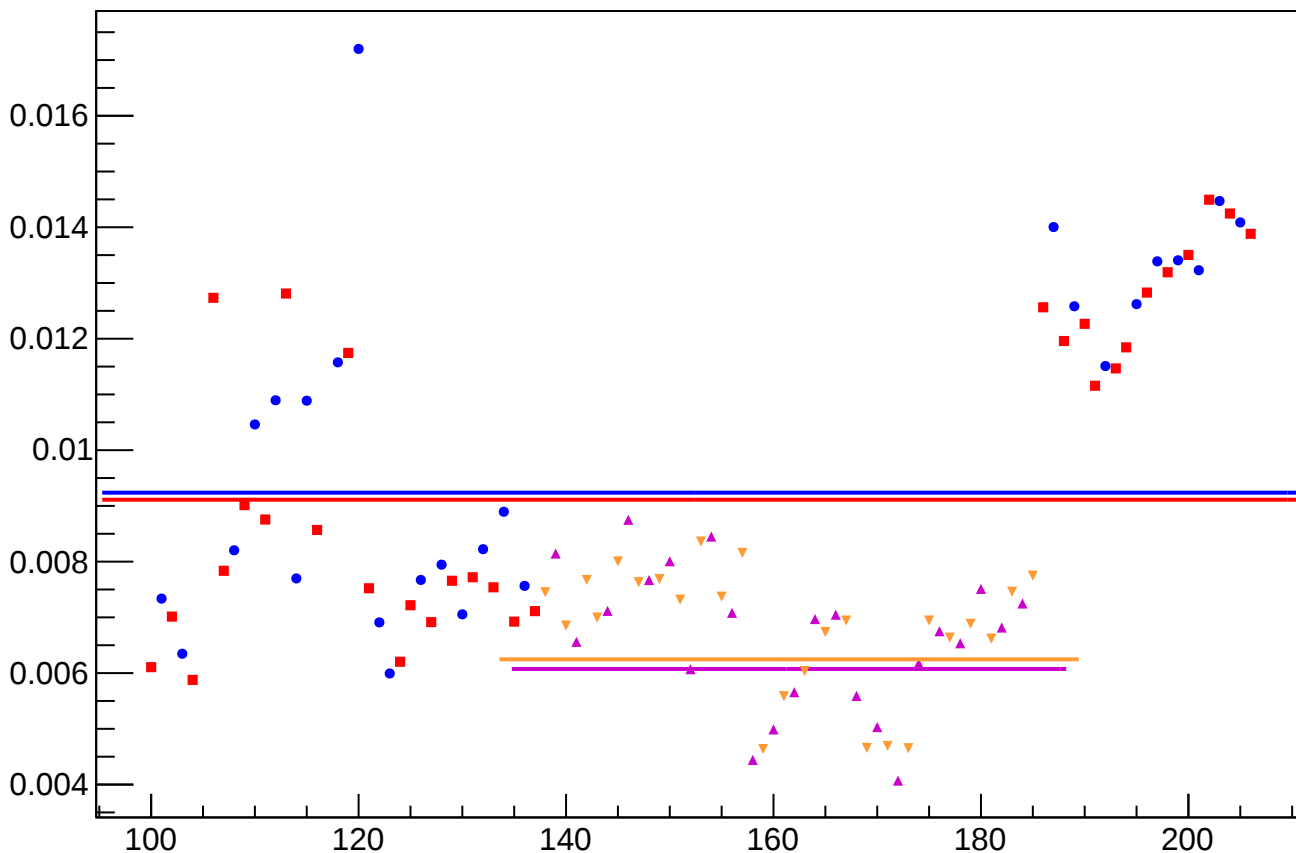
χ^2 /NDF: 84127248221.3/30

Left In: 1.373 $\pm$ 0.000

χ^2 /NDF: 63413151416.3/22

All: 1.070 $\pm$ 0.000 χ^2 /NDF: 593739227029.7

yield_bpm0l02Y_rms vs Slug, Sign Corrected



Right In: 0.009 $\pm$ 0.000 χ^2 /NDF: 1947981.9/25

Left Out: 0.006 $\pm$ 0.000 χ^2 /NDF:1330867.5/24

Right Out: 0.009 $\pm$ 0.000 χ^2 /NDF: 2301552.2/30

Left In: 0.006 $\pm$ 0.000 χ^2 /NDF:1431986.5/22

Left: 0.006 $\pm$ 0.000 χ^2 /NDF: 2775615.7/47

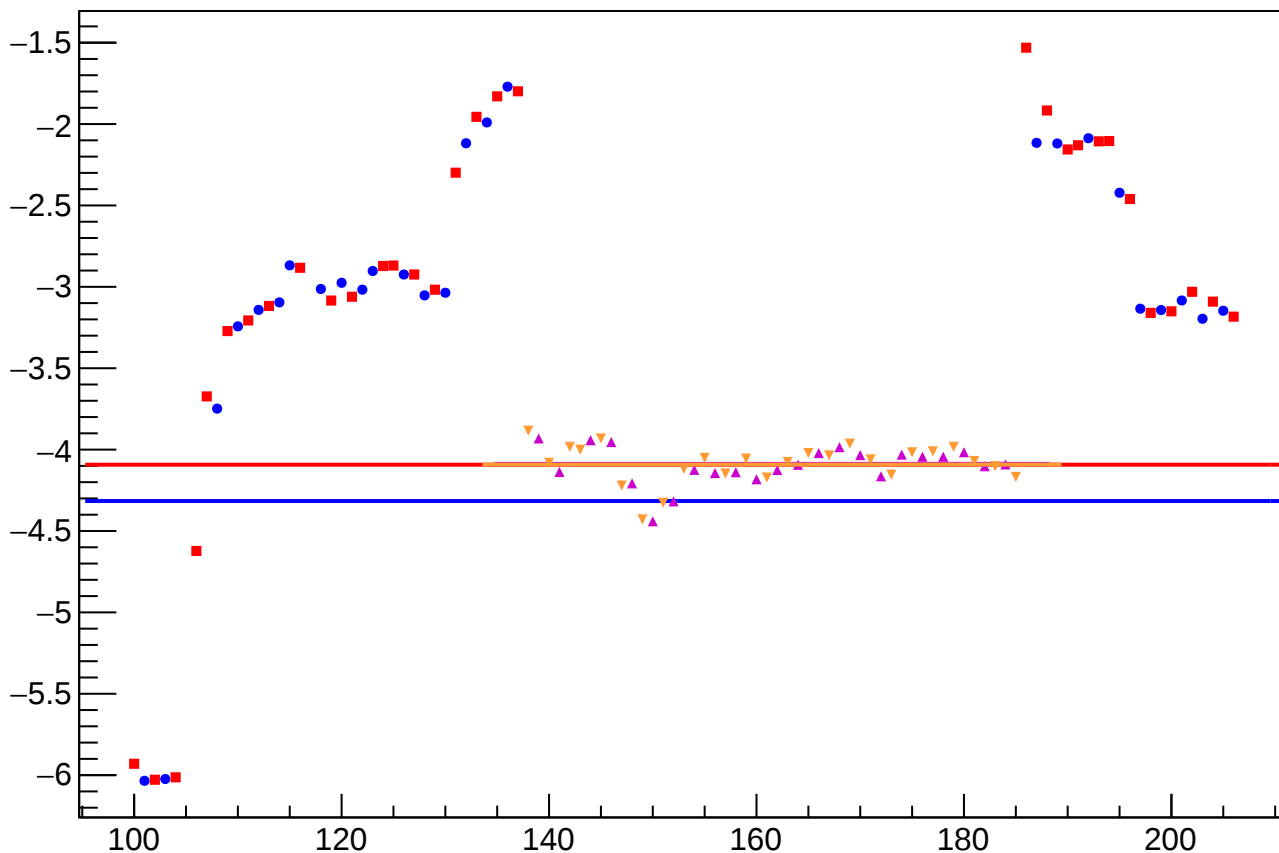
Right: 0.009 $\pm$ 0.000 χ^2 /NDF: 4251794.0/56

In: 0.007 $\pm$ 0.000 χ^2 /NDF:5381196.6/48

Out: 0.007 $\pm$ 0.000 χ^2 /NDF:5504441.8/55

All: 0.007 $\pm$ 0.000 χ^2 /NDF: 10908416.3/104

yield_bpm0l03X_mean vs Slug, Sign Corrected



Right In: -4.316+/-0.000

χ^2/NDF : 264643198918.0/25

Left Out: -4.092+/-0.000

χ^2/NDF : 39806766.7/24

Right Out: -4.093+/-0.000

χ^2/NDF : 268536086077.6/30

Left In: -4.088+/-0.000

χ^2/NDF : 34412880.7/22

Left: -4.089+/-0.000

χ^2/NDF : 74248792.8/47

Right: -4.217+/-0.000

χ^2/NDF : 535366272952.6/56

In: -4.306+/-0.000

χ^2/NDF : 264890486608.0/48

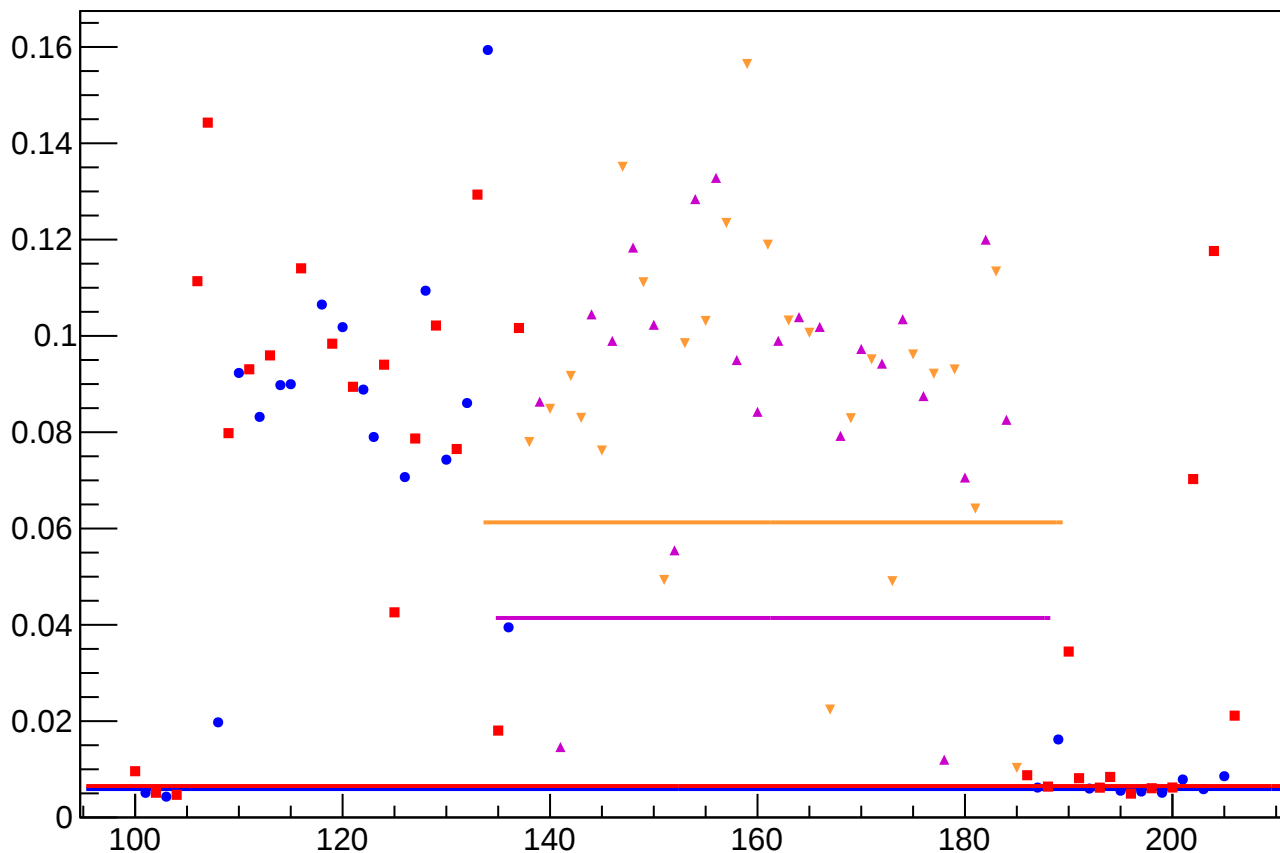
Out: -4.093+/-0.000

χ^2/NDF : 268575895478.8/55

All: -4.212+/-0.000

χ^2/NDF : 535553633650.7

yield_bpm0l03X_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 8066624.7/25

Left Out: 0.061+/-0.000 χ^2/NDF : 8355266.0/24

Right Out: 0.007+/-0.000 χ^2/NDF : 10329314.0/30

Left In: 0.041+/-0.000 χ^2/NDF : 13124468.7/22

Left: 0.050+/-0.000 χ^2/NDF : 22855159.2/47

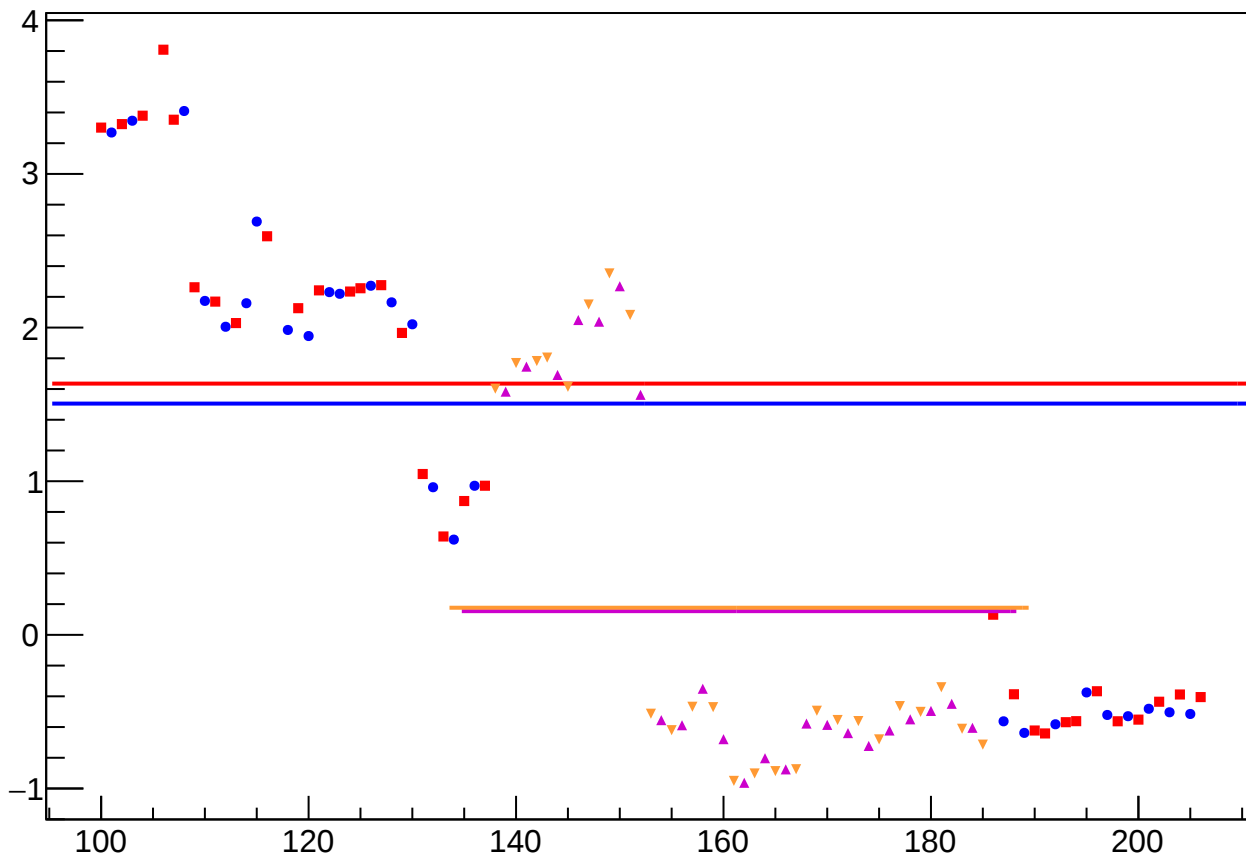
Right: 0.006+/-0.000 χ^2/NDF : 18430127.7/56

In: 0.007+/-0.000 χ^2/NDF : 31511584.8/48

Out: 0.008+/-0.000 χ^2/NDF : 35750324.5/55

All: 0.008+/-0.000 χ^2/NDF : 67379876.2/104

yield_bpm0l03Y_mean vs Slug, Sign Corrected



Right In: 1.505+/-0.000 χ^2/NDF : 193046688849.5/25

Left Out: 0.177+/-0.000 χ^2/NDF : 3275313367.7/24

Right Out: 1.635+/-0.000 χ^2/NDF : 167700675622.8/30

Left In: 0.154+/-0.000 χ^2/NDF : 3163553595.0/22

Left: 0.165+/-0.000 χ^2/NDF : 6439465655.5/47

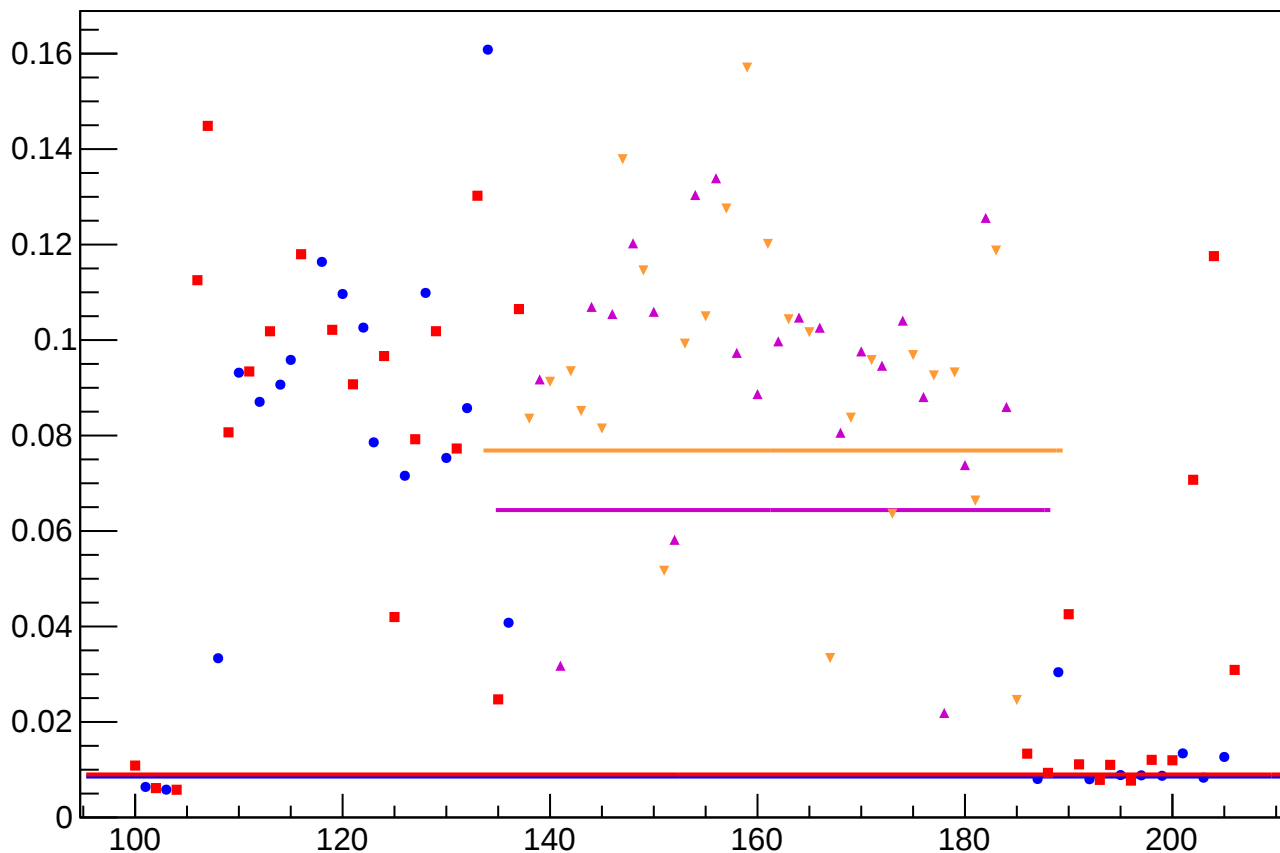
Right: 1.566+/-0.000 χ^2/NDF : 361174358030.3/56

In: 1.444+/-0.000 χ^2/NDF : 200702556374.5/48

Out: 1.569+/-0.000 χ^2/NDF : 175580368003.9/55

All: 1.502+/-0.000 χ^2/NDF : 376698177119.8

yield_bpm0l03Y_rms vs Slug, Sign Corrected



Right In: 0.009+/-0.000 χ^2/NDF : 8027447.7/25

Left Out: 0.077+/-0.000 χ^2/NDF : 4217954.3/24

Right Out: 0.009+/-0.000 χ^2/NDF : 10280460.0/30

Left In: 0.064+/-0.000 χ^2/NDF : 6990231.5/22

Left: 0.070+/-0.000 χ^2/NDF : 11584112.3/47

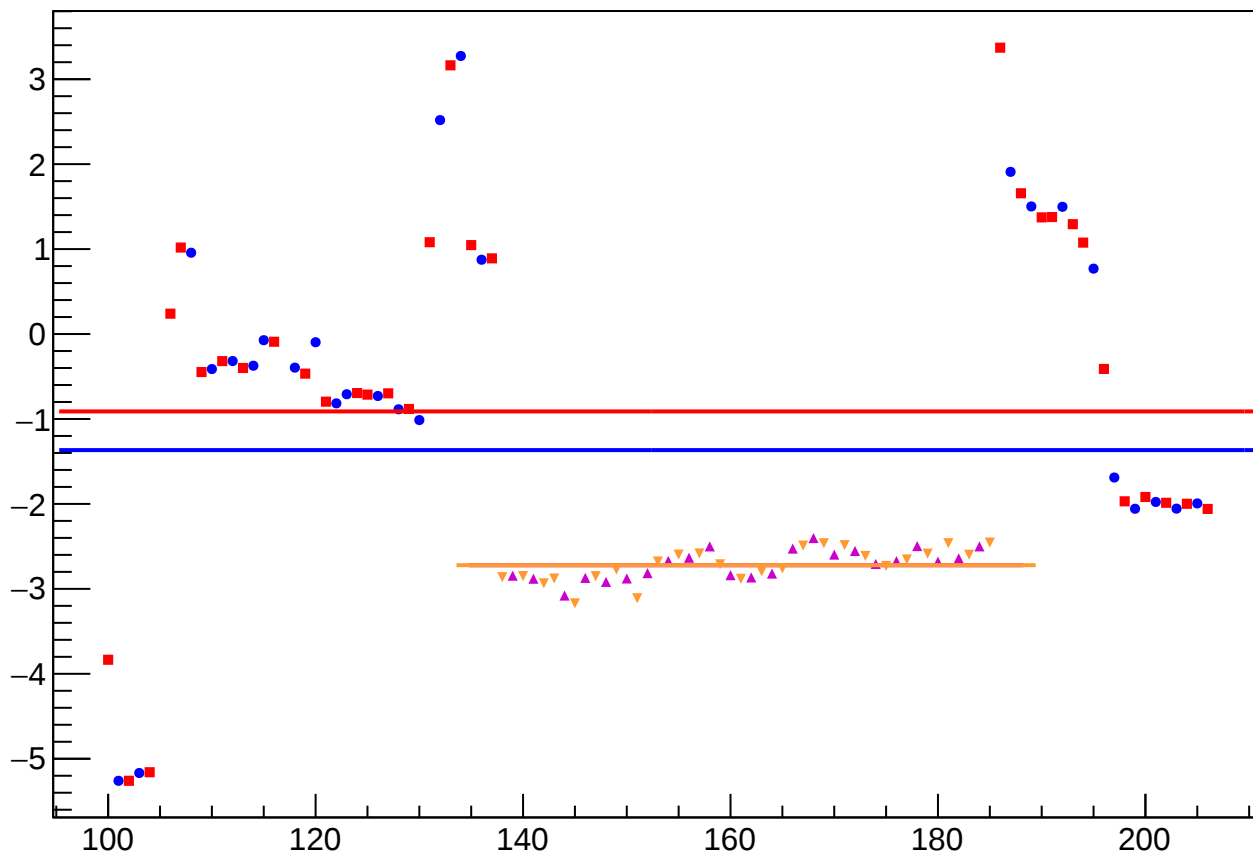
Right: 0.009+/-0.000 χ^2/NDF : 18317595.9/56

In: 0.011+/-0.000 χ^2/NDF : 30356271.1/48

Out: 0.012+/-0.000 χ^2/NDF : 34427836.2/55

All: 0.012+/-0.000 χ^2/NDF : 64834975.8/104

yield_bpm0l04X_mean vs Slug, Sign Corrected



Right In: -1.367+/-0.000 χ^2/NDF : 204815924205.5/25

Left Out: -2.721+/-0.000 χ^2/NDF : 10397156971.6/24

Right Out: -0.911+/-0.000 χ^2/NDF : 235670216105.3/30

Left In: -2.722+/-0.000 χ^2/NDF : 8146484592.1/22

Left: -2.722+/-0.000 χ^2/NDF : 18543711860.5/47

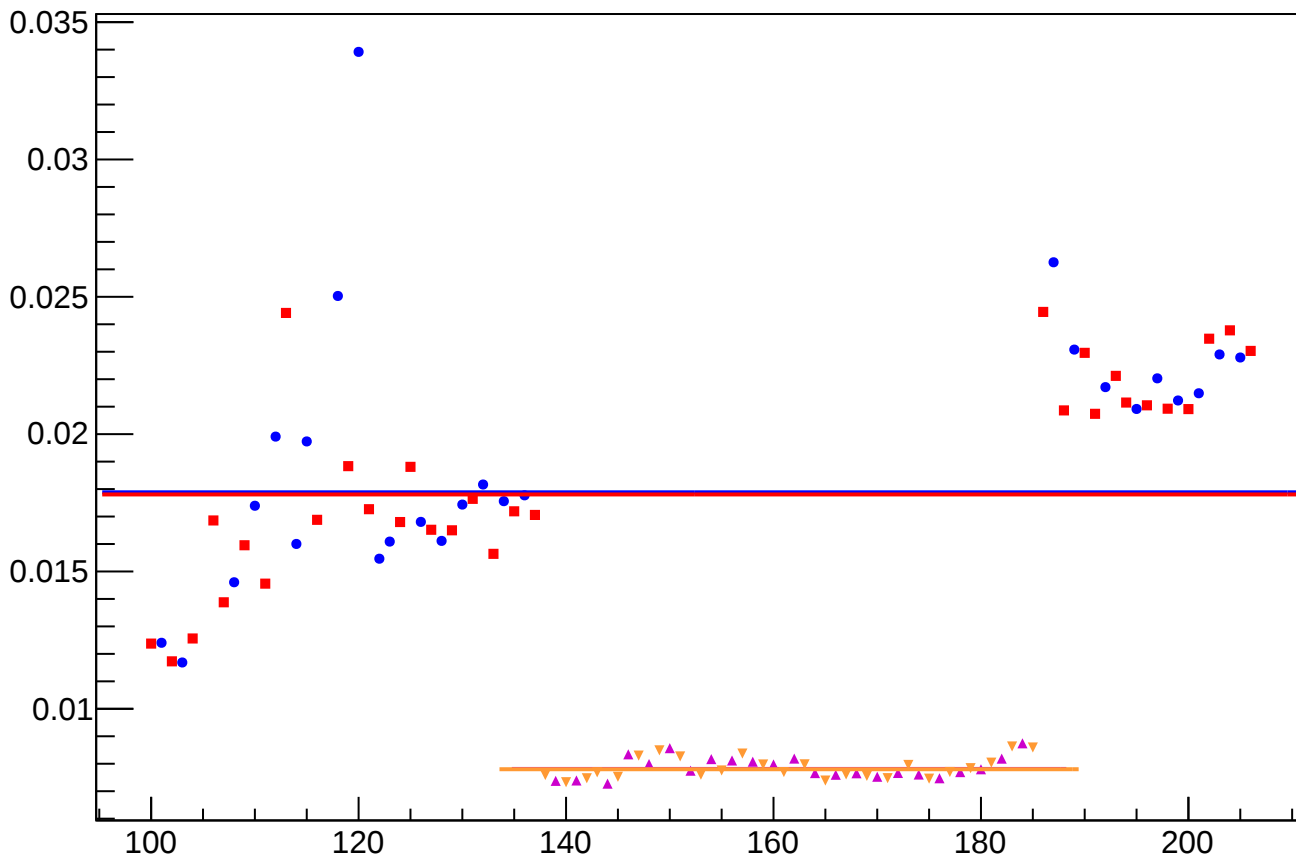
Right: -1.118+/-0.000 χ^2/NDF : 444506080989.1/56

In: -2.566+/-0.000 χ^2/NDF : 270797963143.2/48

Out: -2.490+/-0.000 χ^2/NDF : 367795444859.0/55

All: -2.527+/-0.000 χ^2/NDF : 639518950859.0

yield_bpm0l04X_rms vs Slug, Sign Corrected



Right In: 0.018+/-0.000 χ^2/NDF : 1250935.4/25

Left Out: 0.008+/-0.000 χ^2/NDF : 71164.4/24

Right Out: 0.018+/-0.000 χ^2/NDF : 1238634.6/30

Left In: 0.008+/-0.000 χ^2/NDF : 67610.2/22

Left: 0.008+/-0.000 χ^2/NDF : 138804.4/47

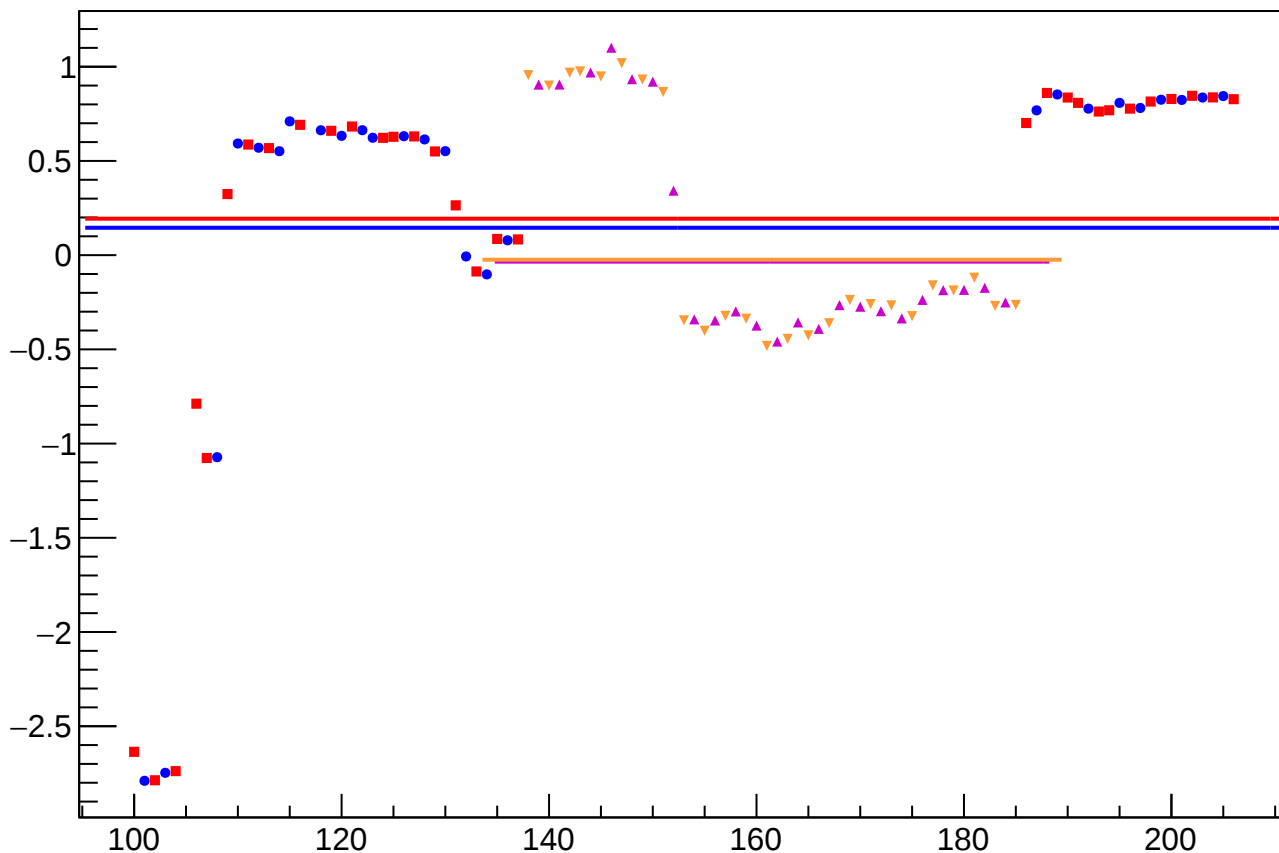
Right: 0.018+/-0.000 χ^2/NDF : 2489801.1/56

In: 0.009+/-0.000 χ^2/NDF : 7704756.3/48

Out: 0.009+/-0.000 χ^2/NDF : 8746461.3/55

All: 0.009+/-0.000 χ^2/NDF : 16455019.6/104

yield_bpm0l04Y_mean vs Slug, Sign Corrected



Right In: 0.145+/-0.000

χ^2/NDF : 853988843745.7/25

Left: -0.029+/-0.000

χ^2/NDF : 249405201350.6/47

Left Out: -0.024+/-0.000

χ^2/NDF : 135451649275.0/24

Right: 0.171+/-0.000

χ^2/NDF : 1783157348834.1/56

Right Out: 0.193+/-0.000

χ^2/NDF : 928260843896.2/30

In: 0.075+/-0.000

χ^2/NDF : 977101577859.3/48

Out: 0.115+/-0.000

χ^2/NDF : 1078301807968.9/55

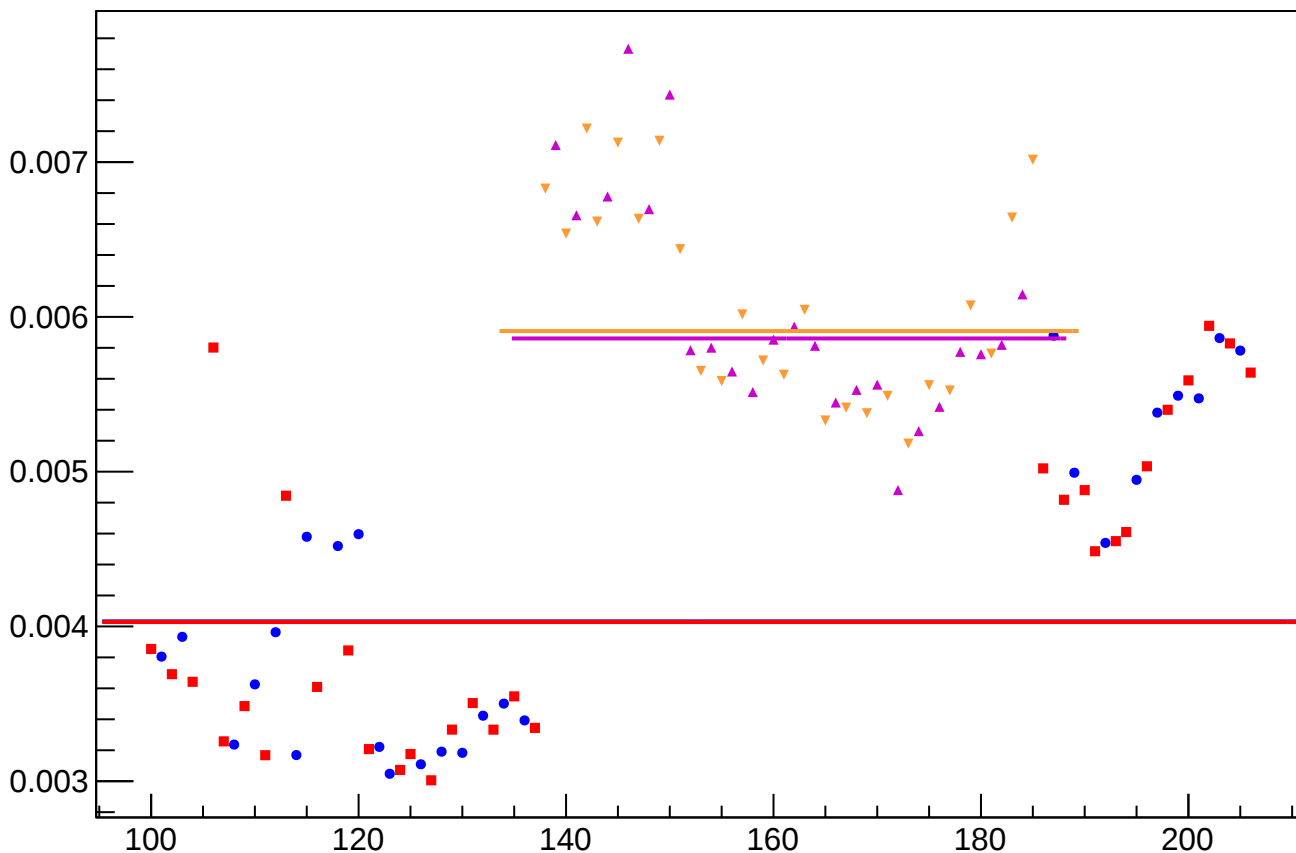
Left In: -0.034+/-0.000

χ^2/NDF : 113929060918.1/22

All: 0.096+/-0.000

χ^2/NDF : 2056375156466.0/100

yield_bpm0l04Y_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 1189751.3/25

Left Out: 0.006+/-0.000 χ^2/NDF :314309.7/24

Right Out: 0.004+/-0.000 χ^2/NDF : 1379905.9/30

Left In: 0.006+/-0.000 χ^2/NDF :364512.1/22

Left: 0.006+/-0.000 χ^2/NDF : 679905.3/47

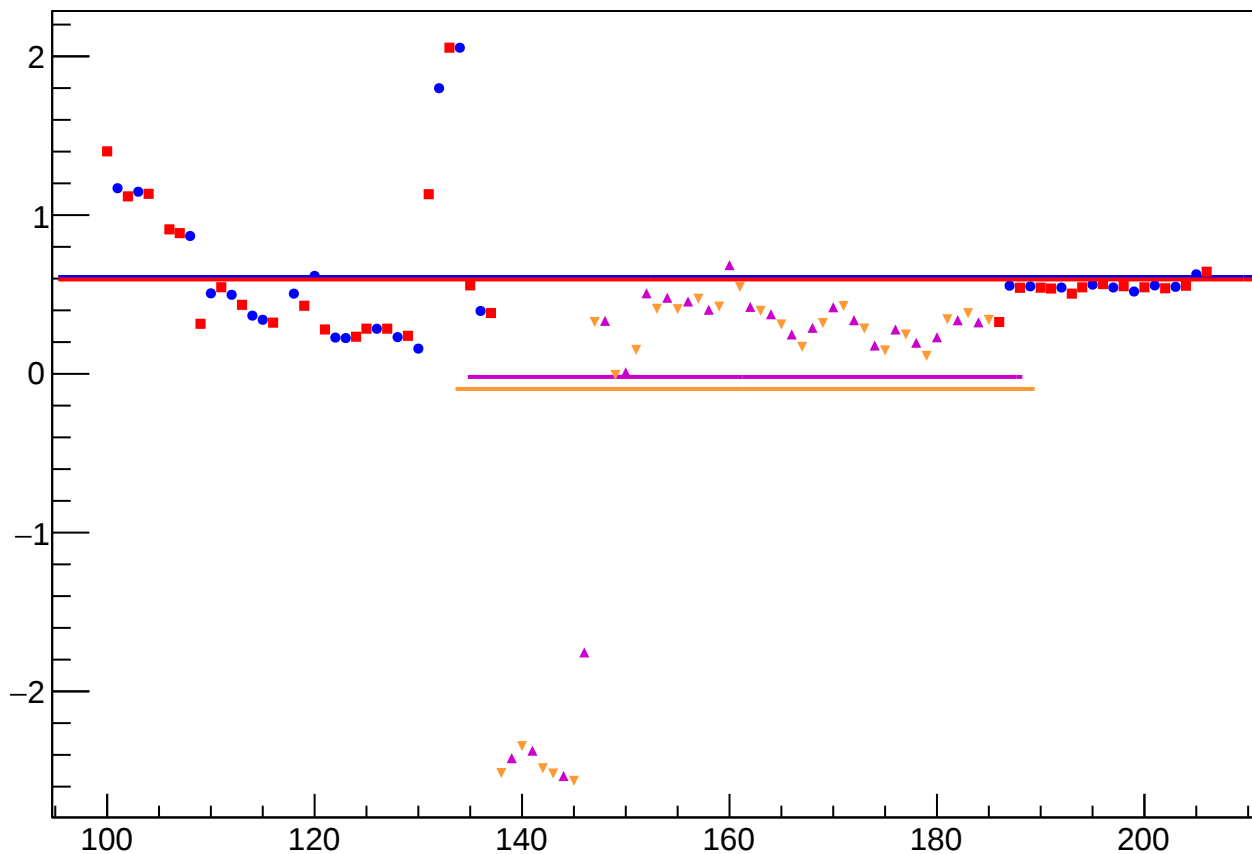
Right: 0.004+/-0.000 χ^2/NDF : 2569672.5/56

In: 0.005+/-0.000 χ^2/NDF :3454545.7/48

Out: 0.005+/-0.000 χ^2/NDF :3872238.6/55

All: 0.005+/-0.000 χ^2/NDF : 7328378.6/104

yield_bpm0l05X_mean vs Slug, Sign Corrected



Right In: 0.610+/-0.000

χ^2/NDF : 40461686410.1/25

Left: -0.058+/-0.000

χ^2/NDF : 924153662333.7/47

Right: 0.601+/-0.000

χ^2/NDF : 86553394091.2/56

Left Out: -0.095+/-0.000

χ^2/NDF : 505606573631.9/24

In: 0.350+/-0.000

χ^2/NDF : 572168475008.9/48

Right Out: 0.595+/-0.000

χ^2/NDF : 45999523469.7/30

Out: 0.339+/-0.000

χ^2/NDF : 705868184093.4/55

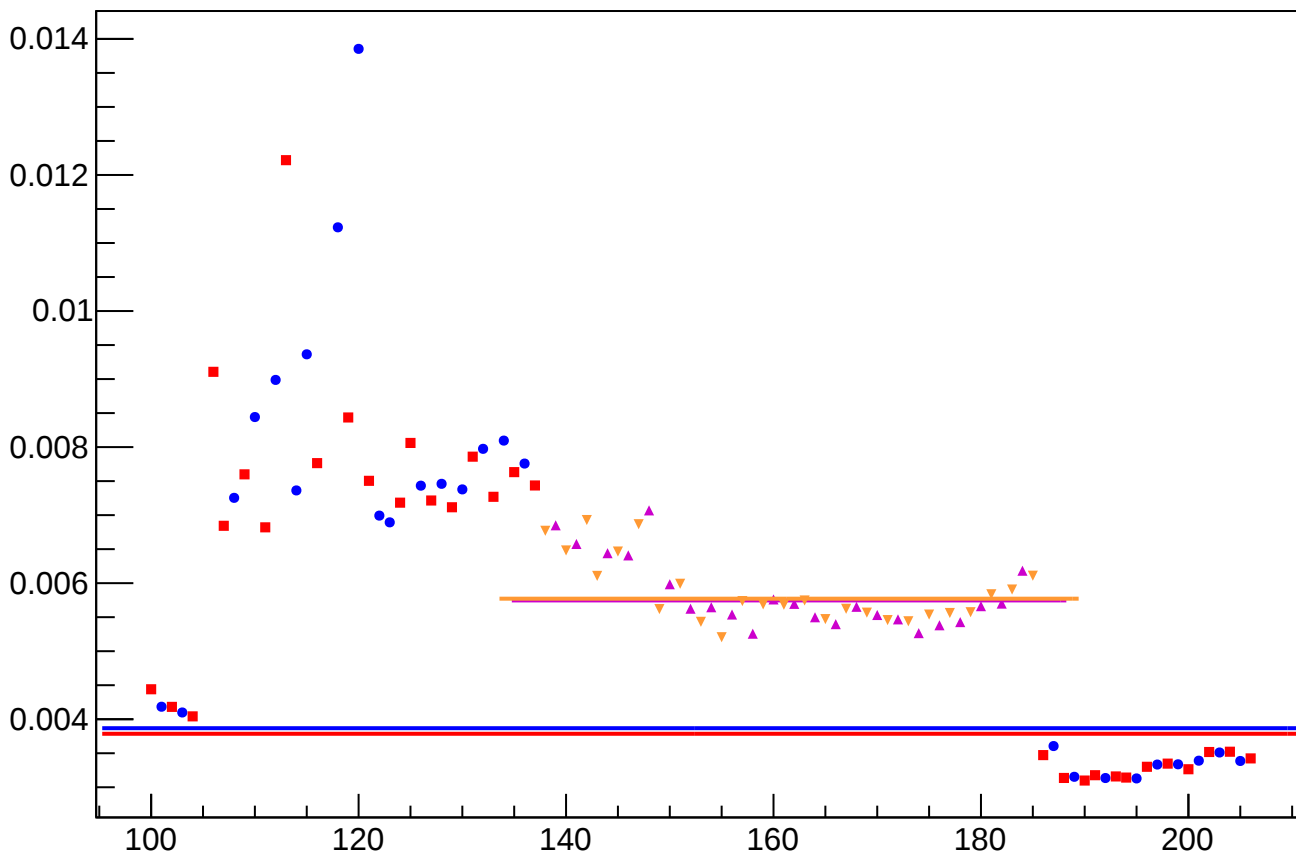
Left In: -0.019+/-0.000

χ^2/NDF : 417104863944.5/22

All: 0.344+/-0.000

χ^2/NDF : 1278107798783.

yield_bpm0l05X_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 3091449.0/25

Left Out: 0.006+/-0.000 χ^2/NDF :177680.7/24

Right Out: 0.004+/-0.000 χ^2/NDF : 3151286.3/30

Left In: 0.006+/-0.000 χ^2/NDF :204066.4/22

Left: 0.006+/-0.000 χ^2/NDF : 382076.8/47

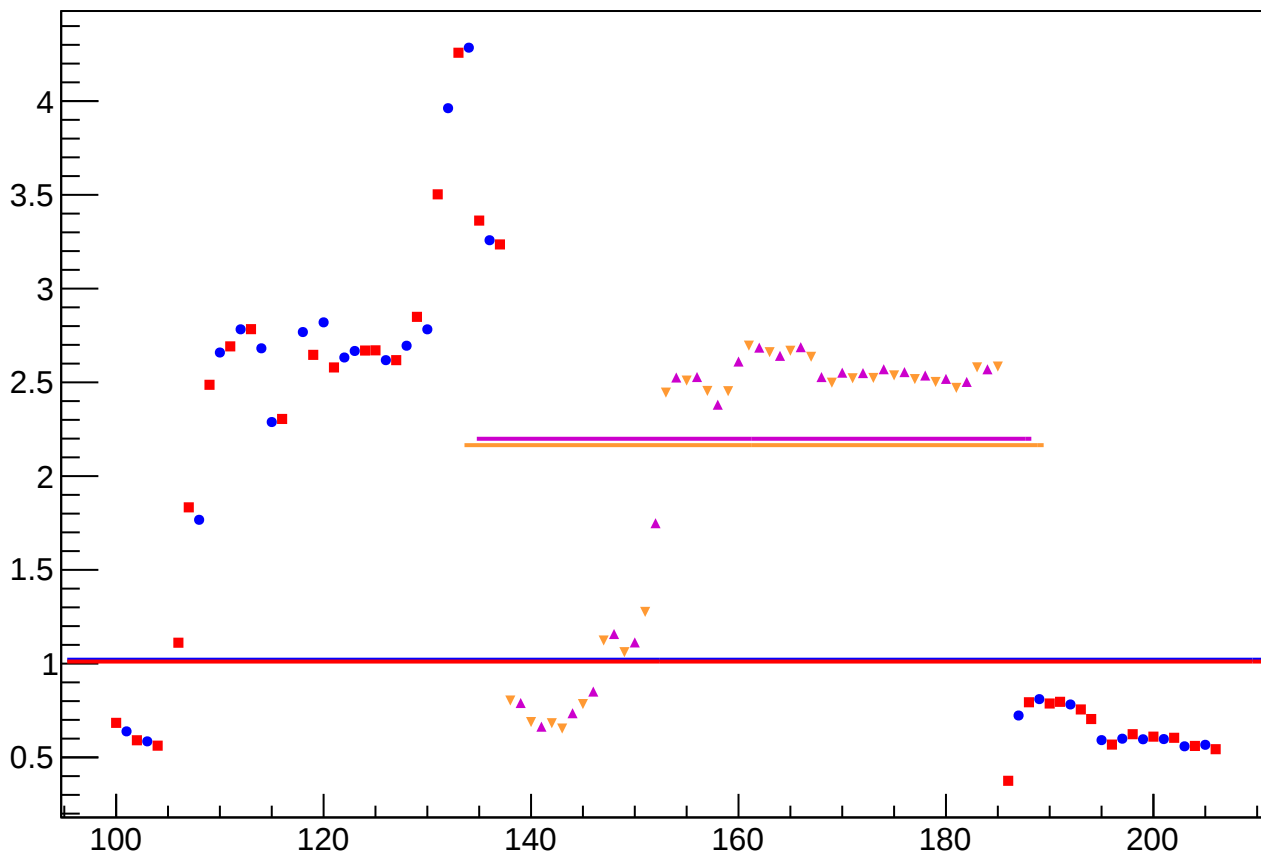
Right: 0.004+/-0.000 χ^2/NDF : 6247954.6/56

In: 0.005+/-0.000 χ^2/NDF :5337089.5/48

Out: 0.005+/-0.000 χ^2/NDF :5887372.0/55

All: 0.005+/-0.000 χ^2/NDF : 11243970.6/104

yield_bpm0l05Y_mean vs Slug, Sign Corrected



Right In: 1.021+/-0.000 χ^2/NDF : 287406405976.5/25

Left Out: 2.165+/-0.000 χ^2/NDF : 292800056899.6/24

Right Out: 1.011+/-0.000 χ^2/NDF : 340796673715.9/30

Left In: 2.199+/-0.000 χ^2/NDF : 253166239065.4/22

Left: 2.182+/-0.000 χ^2/NDF : 546302258971.9/47

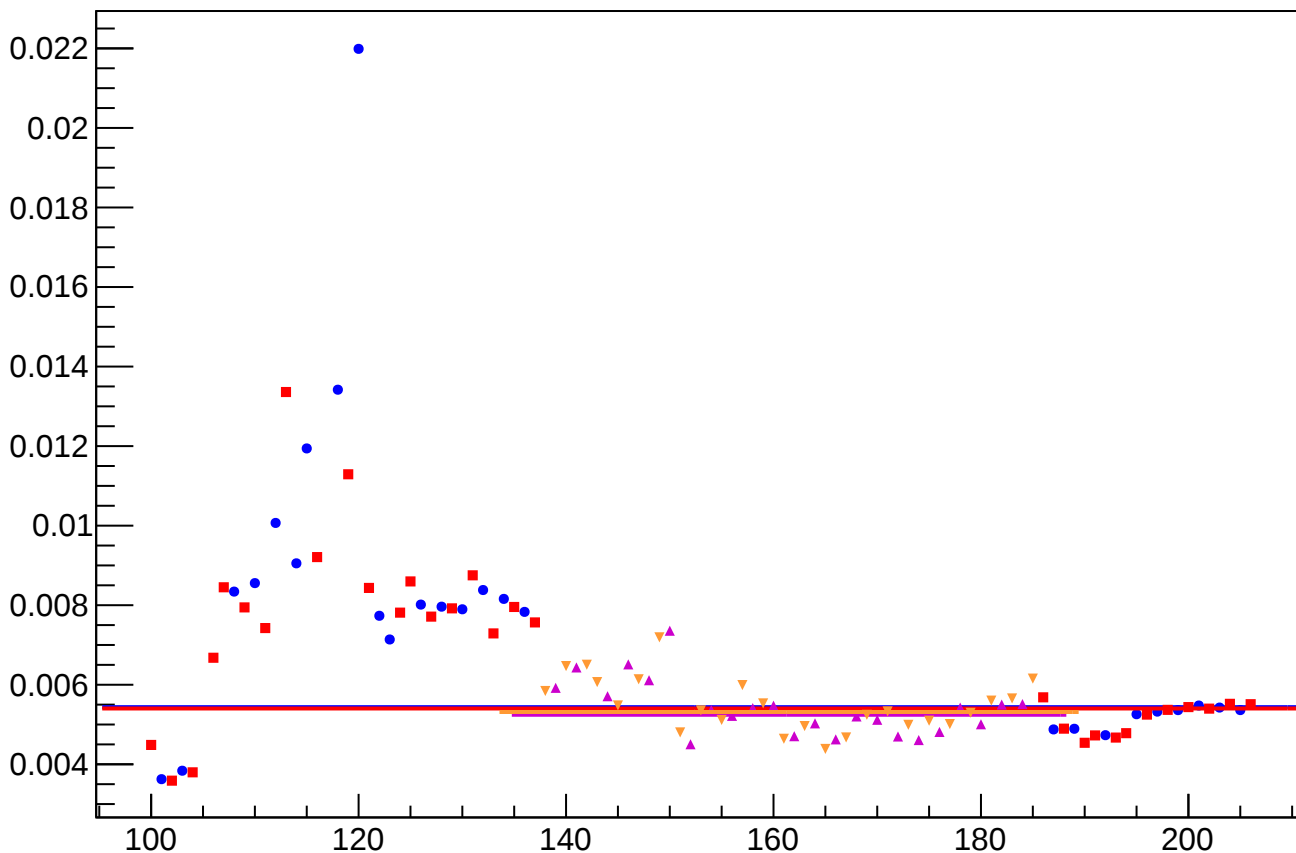
Right: 1.015+/-0.000 χ^2/NDF : 628222962723.0/56

In: 1.739+/-0.000 χ^2/NDF : 851192253973.3/48

Out: 1.667+/-0.000 χ^2/NDF : 970976821788.9/55

All: 1.701+/-0.000 χ^2/NDF : 1824661338758.

yield_bpm0l05Y_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 2005097.5/25

Left Out: 0.005+/-0.000 χ^2/NDF : 398795.0/24

Right Out: 0.005+/-0.000 χ^2/NDF : 1877587.4/30

Left In: 0.005+/-0.000 χ^2/NDF : 425864.8/22

Left: 0.005+/-0.000 χ^2/NDF : 827475.4/47

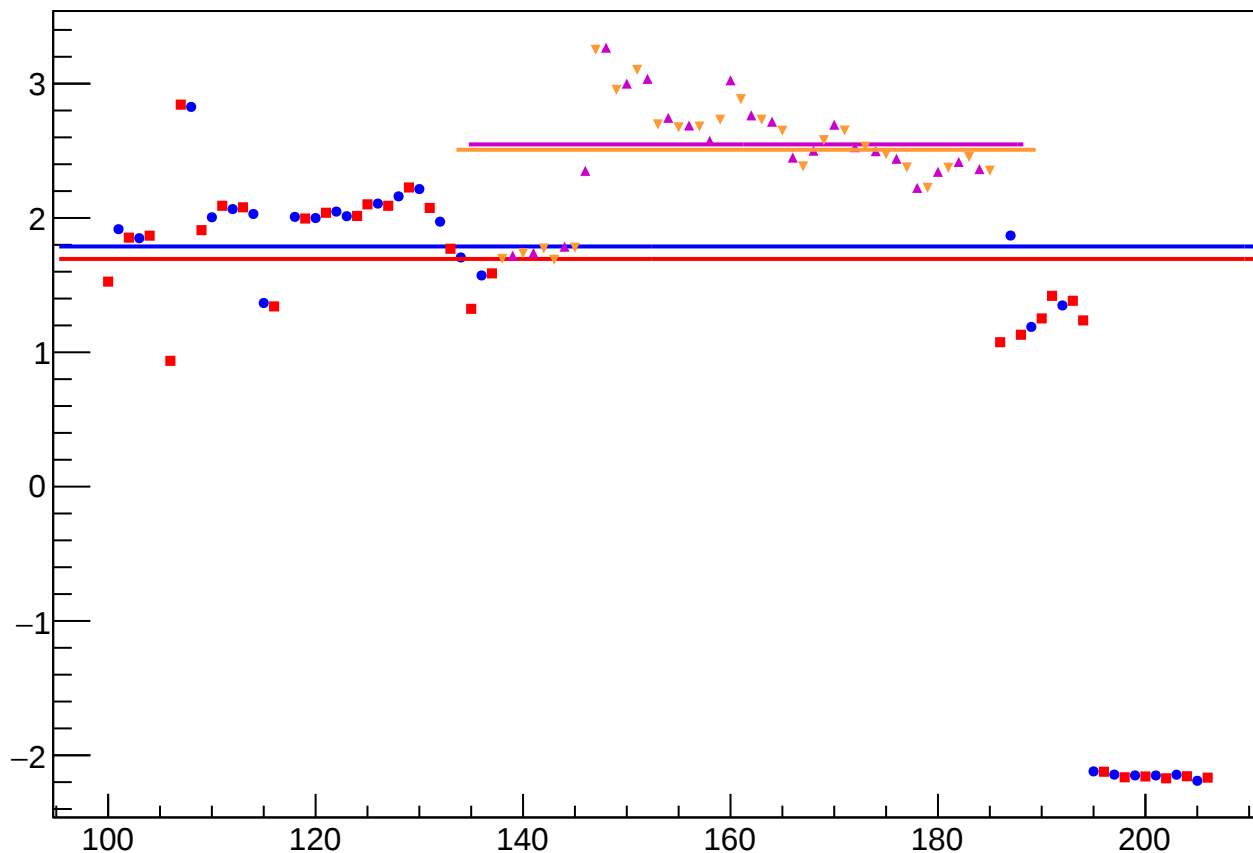
Right: 0.005+/-0.000 χ^2/NDF : 3883135.5/56

In: 0.005+/-0.000 χ^2/NDF : 2447318.6/48

Out: 0.005+/-0.000 χ^2/NDF : 2280309.0/55

All: 0.005+/-0.000 χ^2/NDF : 4728694.1/104

yield_bpm0l06X_mean vs Slug, Sign Corrected



Right In: 1.788 $\pm$ 0.000 χ^2 /NDF: 117661532958.7/25

Left Out: 2.508 $\pm$ 0.000 χ^2 /NDF: 52355332406.0/24

Right Out: 1.695 $\pm$ 0.000 χ^2 /NDF: 124567020173.7/30

Left In: 2.548 $\pm$ 0.000 χ^2 /NDF: 45350336058.7/22

Left: 2.527 $\pm$ 0.000 χ^2 /NDF: 97963993742.3/47

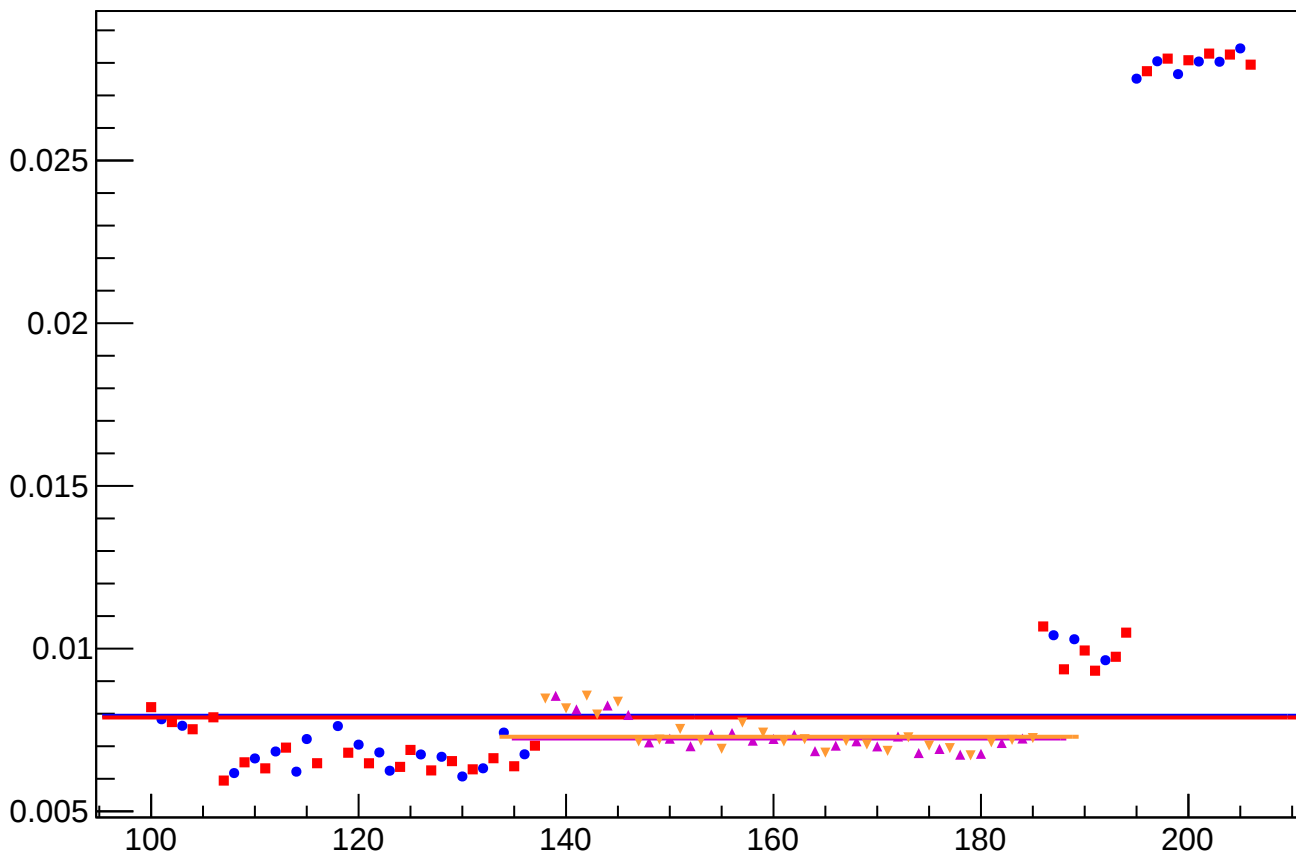
Right: 1.737 $\pm$ 0.000 χ^2 /NDF: 242972551535.7/56

In: 2.295 $\pm$ 0.000 χ^2 /NDF: 223815840509.9/48

Out: 2.209 $\pm$ 0.000 χ^2 /NDF: 256742013737.7/55

All: 2.250 $\pm$ 0.000 χ^2 /NDF: 482414176638.1

yield_bpm0l06X_rms vs Slug, Sign Corrected



Right In: 0.008 $\pm$ 0.000 χ^2 /NDF: 5445643.4/25

Left Out: 0.007 $\pm$ 0.000 χ^2 /NDF:140788.4/24

Right Out: 0.008 $\pm$ 0.000 χ^2 /NDF: 5539148.0/30

Left In: 0.007 $\pm$ 0.000 χ^2 /NDF:125233.2/22

Left: 0.007 $\pm$ 0.000 χ^2 /NDF: 266945.6/47

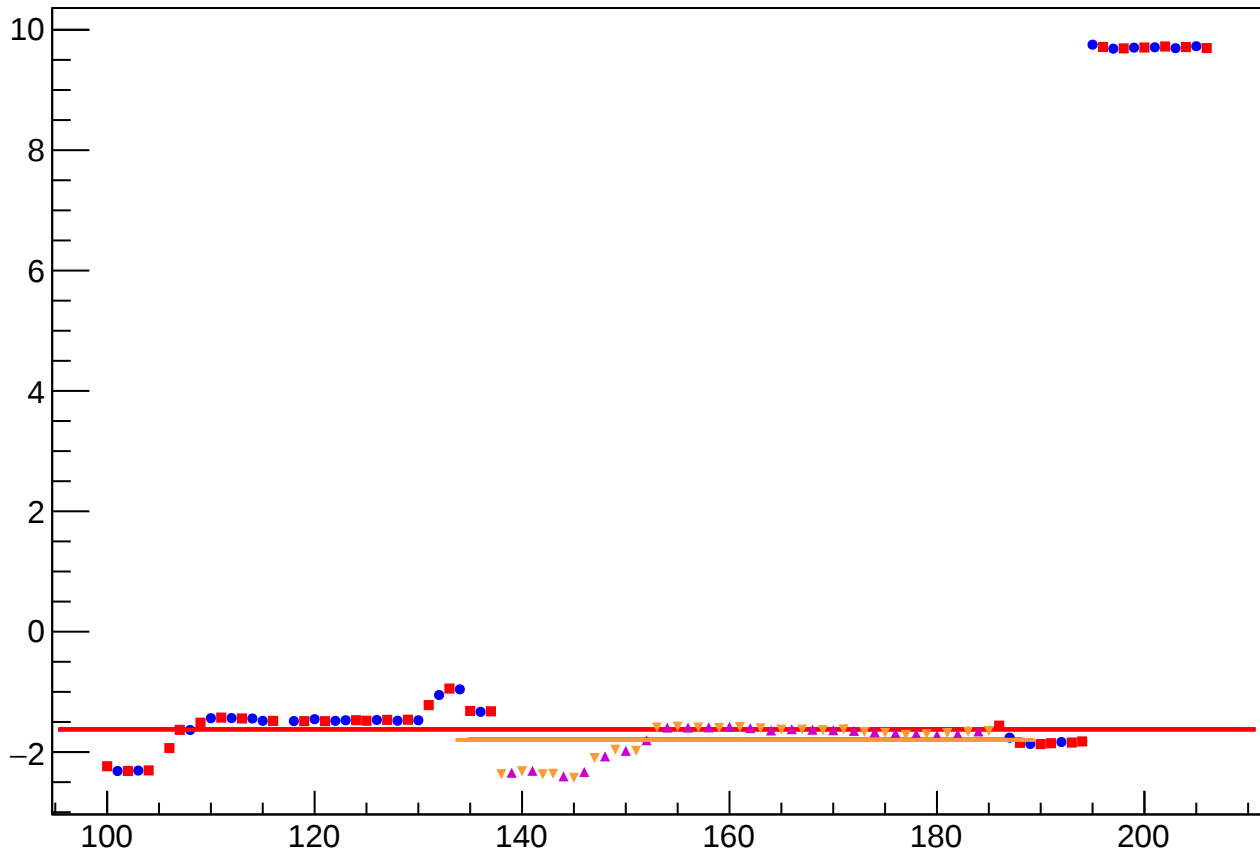
Right: 0.008 $\pm$ 0.000 χ^2 /NDF: 10985279.5/56

In: 0.007 $\pm$ 0.000 χ^2 /NDF:5673657.1/48

Out: 0.008 $\pm$ 0.000 χ^2 /NDF:5764633.7/55

All: 0.007 $\pm$ 0.000 χ^2 /NDF: 11439052.0/104

yield_bpm0l06Y_mean vs Slug, Sign Corrected



Right In: -1.621+/-0.000 χ^2/NDF : 310405455721.6/25

Left Out: -1.799+/-0.000 χ^2/NDF : 185362087438.8/24

Right Out: -1.628+/-0.000 χ^2/NDF : 315395462203.2/30

Left In: -1.790+/-0.000 χ^2/NDF : 159648935510.8/22

Left: -1.795+/-0.000 χ^2/NDF : 345099435201.4/47

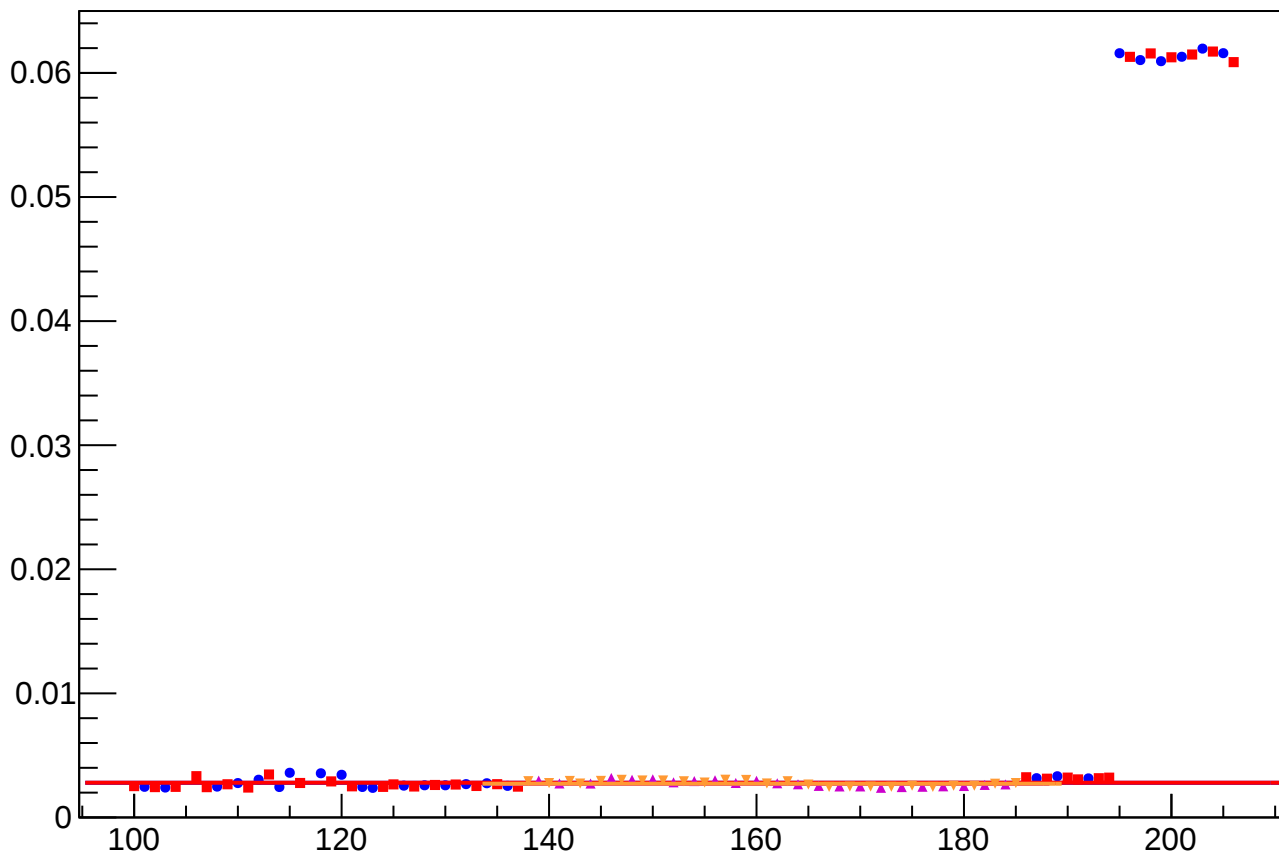
Right: -1.625+/-0.000 χ^2/NDF : 625832738843.4/56

In: -1.737+/-0.000 χ^2/NDF : 490534085581.5/48

Out: -1.739+/-0.000 χ^2/NDF : 525056187175.7/55

All: -1.738+/-0.000 χ^2/NDF : 1015595872139

yield_bpm0l06Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 8966241.1/25

Left Out: 0.003+/-0.000 χ^2/NDF :199695.2/24

Right Out: 0.003+/-0.000 χ^2/NDF : 8614346.6/30

Left In: 0.003+/-0.000 χ^2/NDF :220327.9/22

Left: 0.003+/-0.000 χ^2/NDF : 420716.9/47

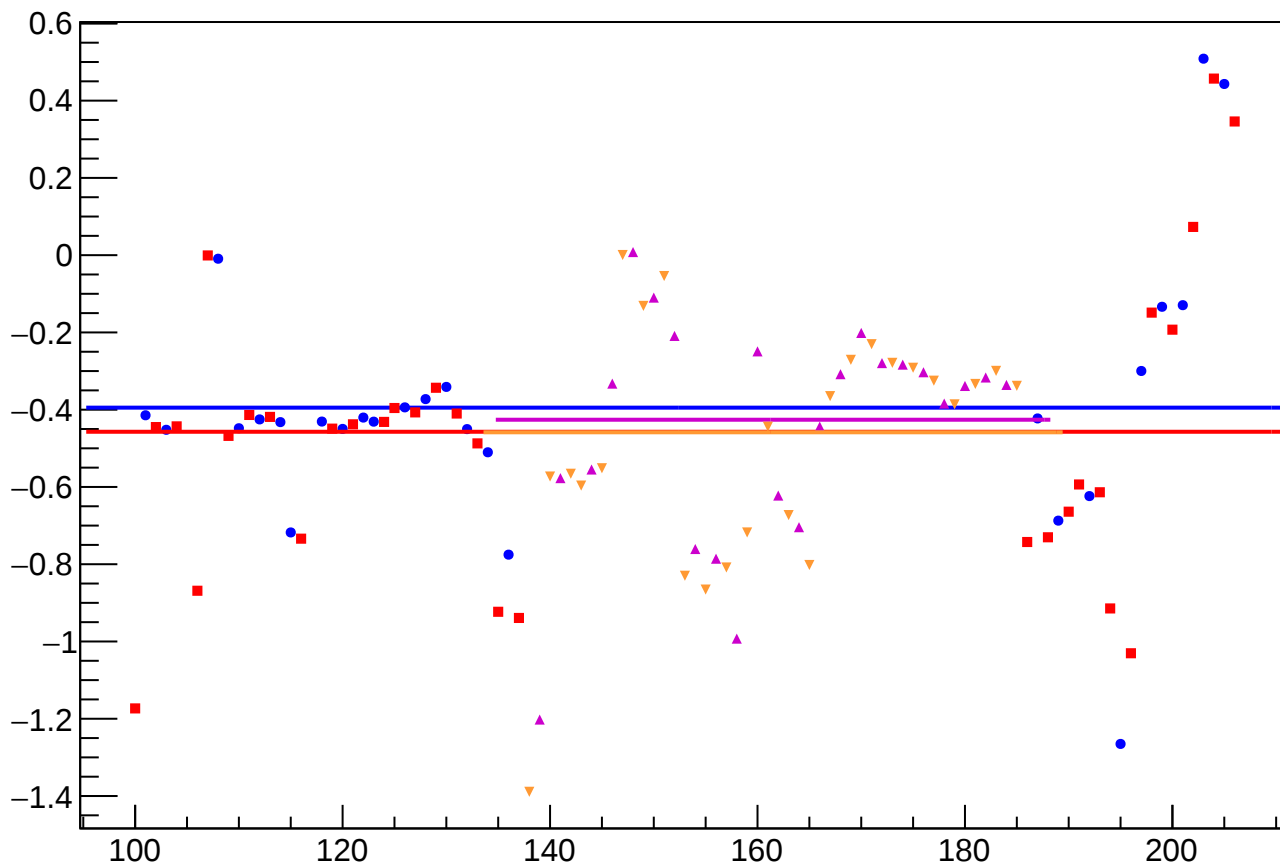
Right: 0.003+/-0.000 χ^2/NDF : 17580663.9/56

In: 0.003+/-0.000 χ^2/NDF :9198258.6/48

Out: 0.003+/-0.000 χ^2/NDF :8825066.8/55

All: 0.003+/-0.000 χ^2/NDF : 18024393.2/104

yield_bpm0l07X_mean vs Slug, Sign Corrected



Right In: -0.395+/-0.000 χ^2/NDF : 7818128892.0/25

Left Out: -0.459+/-0.000 χ^2/NDF : 9916462814.9/24

Right Out: -0.457+/-0.000 χ^2/NDF : 8773684520.8/30

Left In: -0.426+/-0.000 χ^2/NDF : 8424222576.0/22

Left: -0.443+/-0.000 χ^2/NDF : 18401926676.9/47

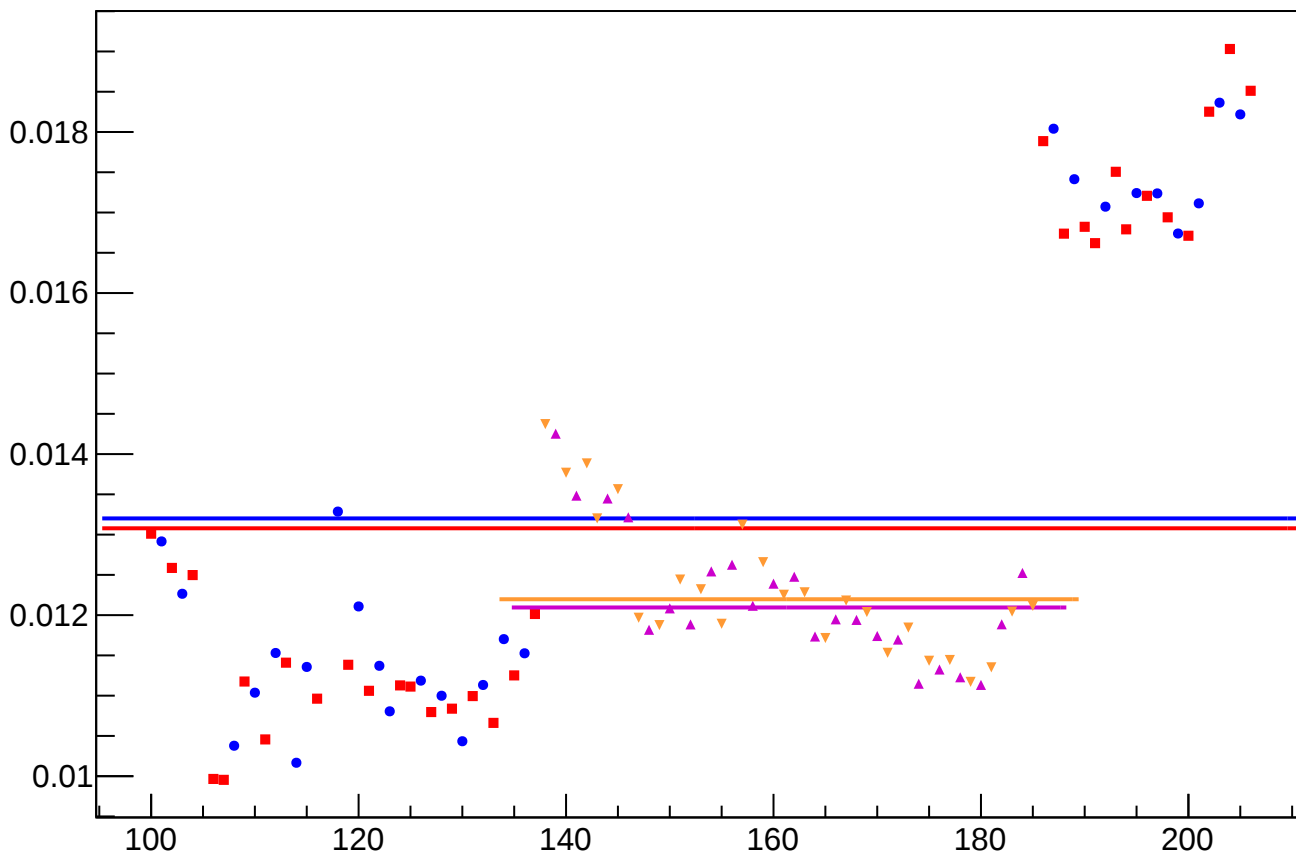
Right: -0.428+/-0.000 χ^2/NDF : 16738536213.7/56

In: -0.414+/-0.000 χ^2/NDF : 16284531170.7/48

Out: -0.458+/-0.000 χ^2/NDF : 18690240231.2/55

All: -0.437+/-0.000 χ^2/NDF : 35158616897.0/100

yield_bpm0l07X_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 1090458.4/25

Left Out: 0.012+/-0.000 χ^2/NDF :141850.9/24

Right Out: 0.013+/-0.000 χ^2/NDF : 1474444.5/30

Left In: 0.012+/-0.000 χ^2/NDF :127308.3/22

Left: 0.012+/-0.000 χ^2/NDF : 270367.5/47

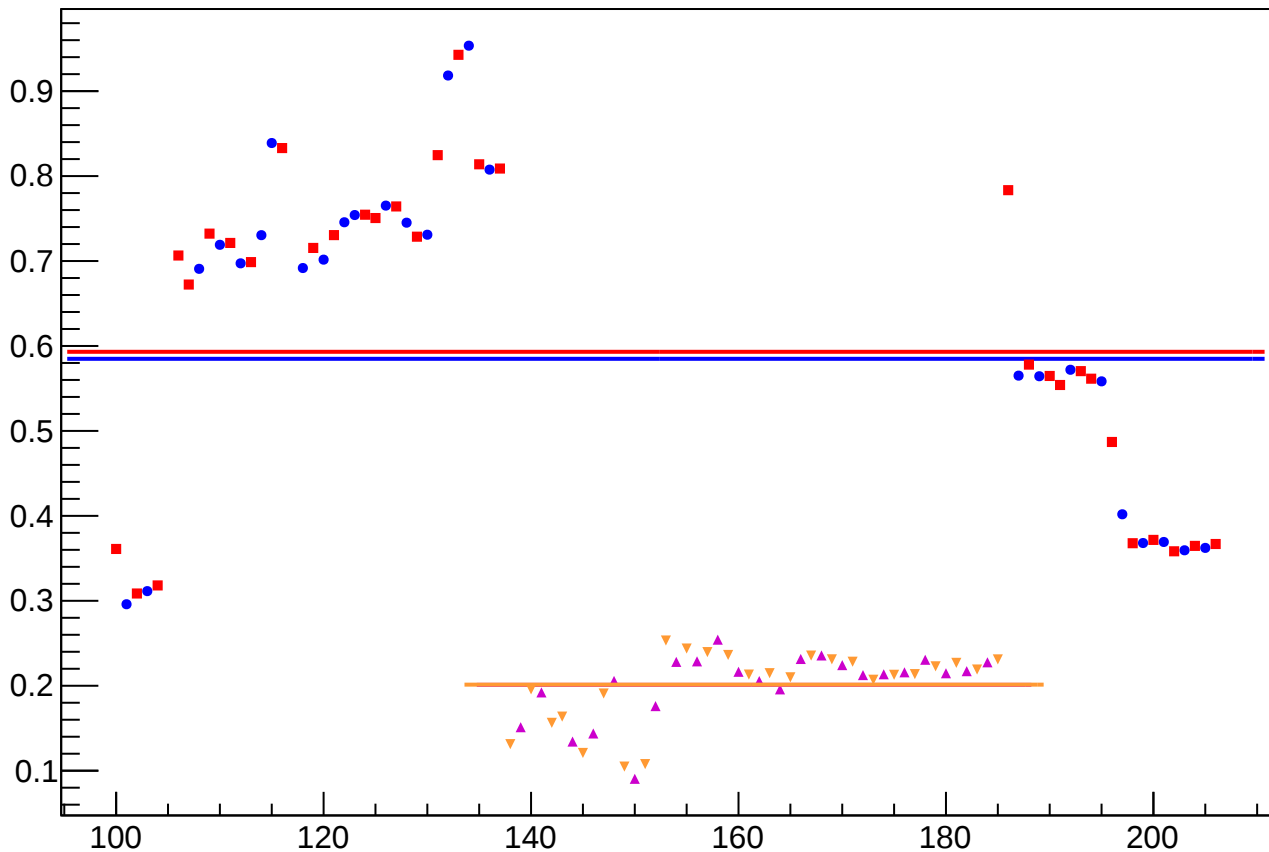
Right: 0.013+/-0.000 χ^2/NDF : 2566036.3/56

In: 0.013+/-0.000 χ^2/NDF :1323231.8/48

Out: 0.013+/-0.000 χ^2/NDF :1691490.9/55

All: 0.013+/-0.000 χ^2/NDF : 3015079.1/104

yield_bpm0l07Y_mean vs Slug, Sign Corrected



Right In: 0.585+/-0.000 χ^2/NDF : 66322843429.5/25

Left Out: 0.201+/-0.000 χ^2/NDF : 7090760823.7/24

Right Out: 0.593+/-0.000 χ^2/NDF : 67616445298.7/30

Left In: 0.201+/-0.000 χ^2/NDF : 5671770181.2/22

Left: 0.201+/-0.000 χ^2/NDF : 12762673178.0/47

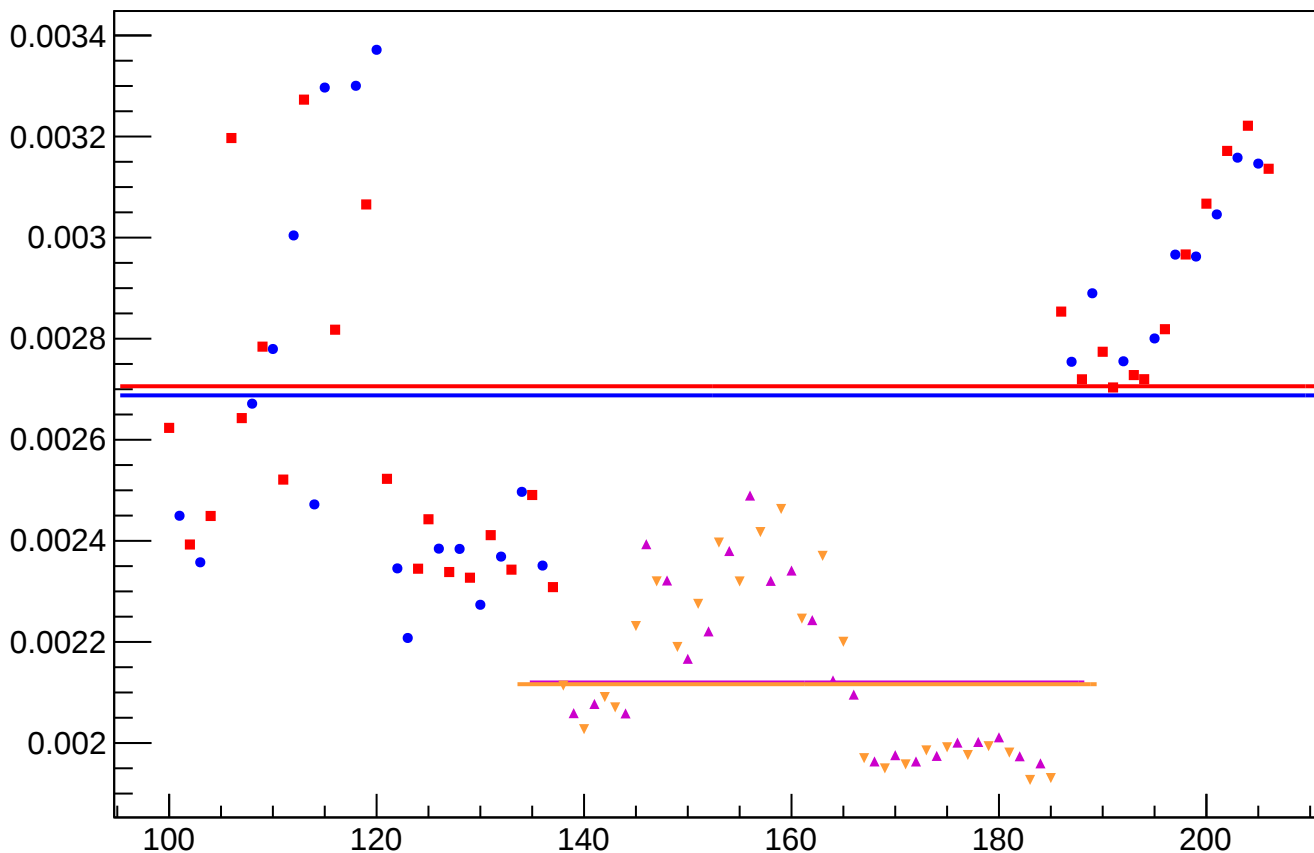
Right: 0.589+/-0.000 χ^2/NDF : 134002003671.3/56

In: 0.320+/-0.000 χ^2/NDF : 246568521217.8/48

Out: 0.330+/-0.000 χ^2/NDF : 278148961416.2/55

All: 0.325+/-0.000 χ^2/NDF : 524959567554.5

yield_bpm0l07Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 364978.7/25

Left Out: 0.002+/-0.000 χ^2/NDF :224498.3/24

Right Out: 0.003+/-0.000 χ^2/NDF : 323516.7/30

Left In: 0.002+/-0.000 χ^2/NDF :189228.6/22

Left: 0.002+/-0.000 χ^2/NDF : 413772.2/47

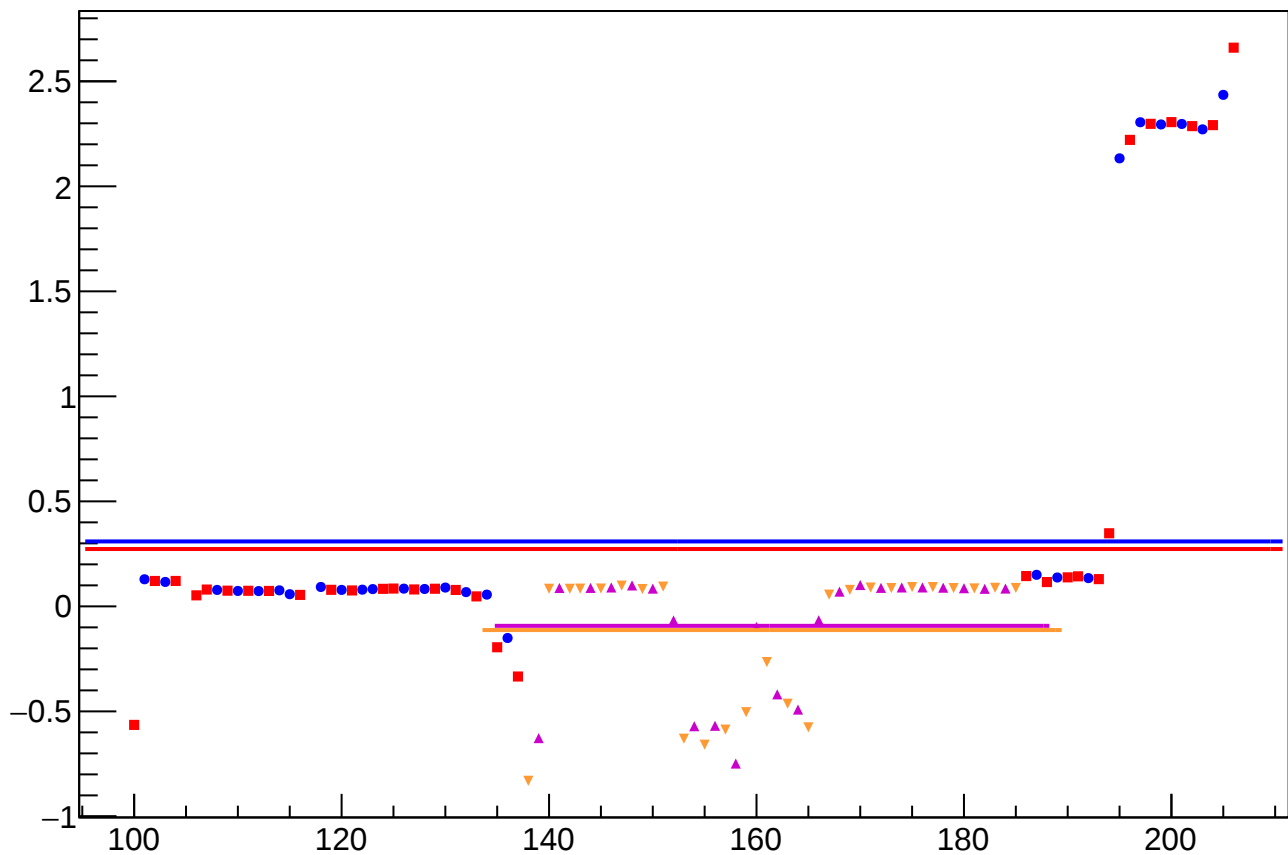
Right: 0.003+/-0.000 χ^2/NDF : 689094.6/56

In: 0.002+/-0.000 χ^2/NDF :1318891.8/48

Out: 0.002+/-0.000 χ^2/NDF :1468988.6/55

All: 0.002+/-0.000 χ^2/NDF : 2788842.3/104

yield_bpm0l08X_mean vs Slug, Sign Corrected



Right In: 0.309+/-0.000

χ^2/NDF : 41047092747.9/25

Left: -0.103+/-0.000

χ^2/NDF : 24747894543.0/47

Left Out: -0.113+/-0.000

χ^2/NDF : 13667354077.1/24

Right: 0.289+/-0.000

χ^2/NDF : 85310504968.2/56

Right Out: 0.273+/-0.000

χ^2/NDF : 44204470779.7/30

In: 0.057+/-0.000

χ^2/NDF : 60451340905.1/48

Out: 0.044+/-0.000

χ^2/NDF : 66655588270.9/55

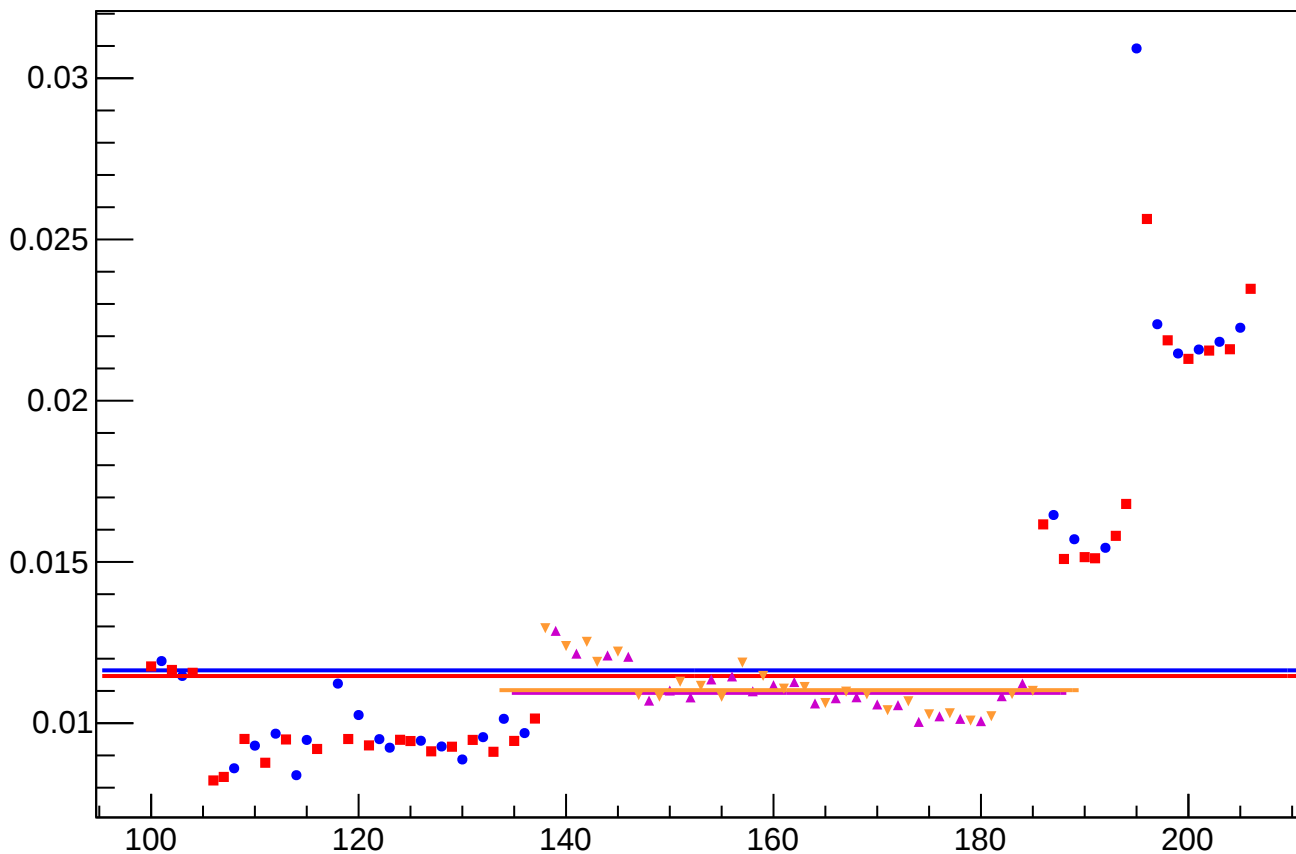
Left In: -0.093+/-0.000

χ^2/NDF : 11051944893.7/22

All: 0.050+/-0.000

χ^2/NDF : 127125708525.0

yield_bpm0l08X_rms vs Slug, Sign Corrected



Right In: 0.012 $\pm$ 0.000 χ^2 /NDF: 3154876.2/25

Left Out: 0.011 $\pm$ 0.000 χ^2 /NDF:141501.7/24

Right Out: 0.011 $\pm$ 0.000 χ^2 /NDF: 3450502.6/30

Left In: 0.011 $\pm$ 0.000 χ^2 /NDF:128914.2/22

Left: 0.011 $\pm$ 0.000 χ^2 /NDF: 271400.1/47

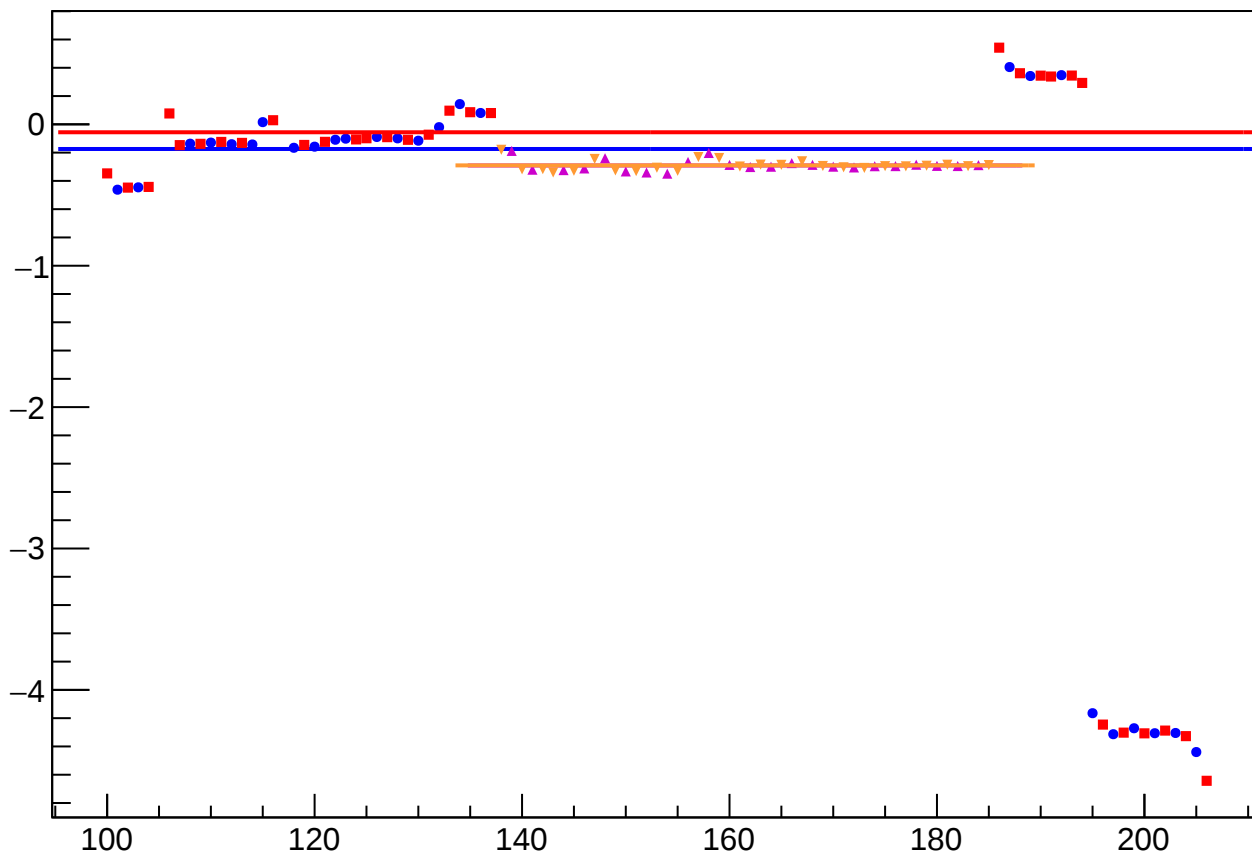
Right: 0.012 $\pm$ 0.000 χ^2 /NDF: 6608168.8/56

In: 0.011 $\pm$ 0.000 χ^2 /NDF:3334134.9/48

Out: 0.011 $\pm$ 0.000 χ^2 /NDF:3614694.3/55

All: 0.011 $\pm$ 0.000 χ^2 /NDF: 6948830.0/104

yield_bpm0l08Y_mean vs Slug, Sign Corrected



Right In: -0.174+/-0.000

χ^2/NDF : 265858045663.3/25

Left: -0.291+/-0.000

χ^2/NDF : 6003615293.4/47

Left Out: -0.290+/-0.000

χ^2/NDF : 2877519093.0/24

Right: -0.109+/-0.000

χ^2/NDF : 562399206882.7/56

Right Out: -0.056+/-0.000

χ^2/NDF : 293243949339.9/30

In: -0.272+/-0.000

χ^2/NDF : 273825437004.1/48

Out: -0.247+/-0.000

χ^2/NDF : 319865630660.6/55

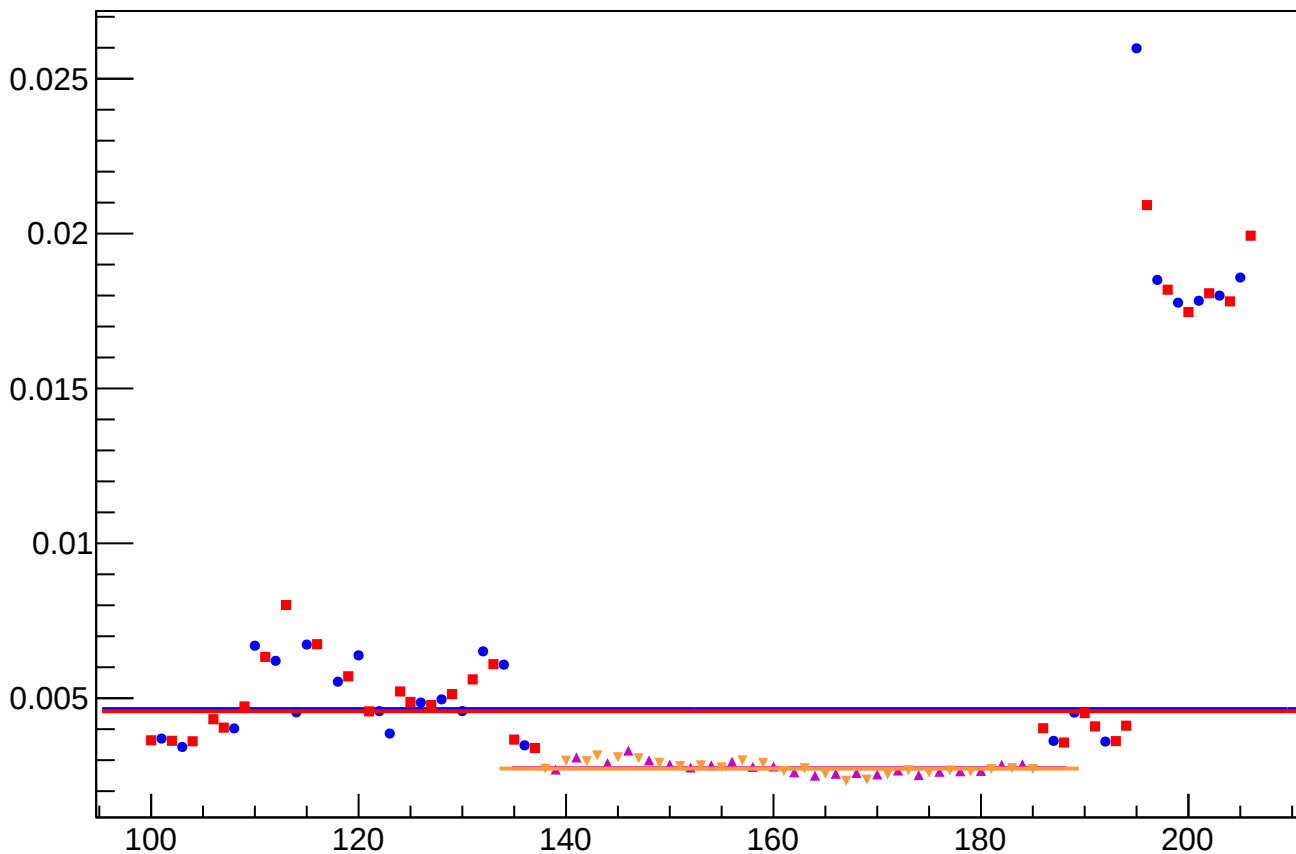
Left In: -0.291+/-0.000

χ^2/NDF : 3125402243.3/22

All: -0.259+/-0.000

χ^2/NDF : 594541058342.0

yield_bpm0l08Y_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 6325324.3/25

Left Out: 0.003+/-0.000 χ^2/NDF :206527.1/24

Right Out: 0.005+/-0.000 χ^2/NDF : 6106123.6/30

Left In: 0.003+/-0.000 χ^2/NDF :147778.8/22

Left: 0.003+/-0.000 χ^2/NDF : 354733.7/47

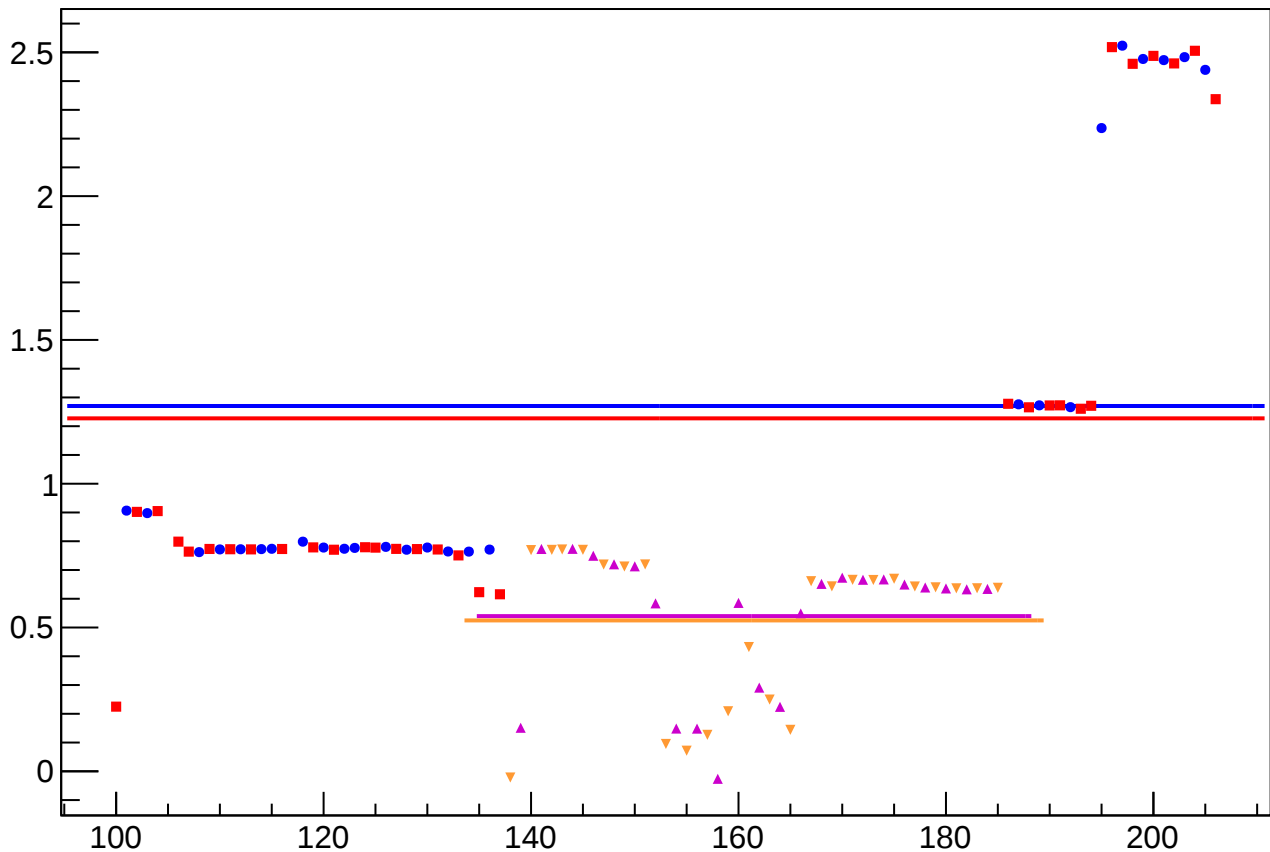
Right: 0.005+/-0.000 χ^2/NDF : 12433509.5/56

In: 0.003+/-0.000 χ^2/NDF :9054547.1/48

Out: 0.003+/-0.000 χ^2/NDF :9284411.5/55

All: 0.003+/-0.000 χ^2/NDF : 18339853.7/104

yield_bpm0l09X_mean vs Slug, Sign Corrected



Right In: 1.270 $\pm$ 0.000

χ^2 /NDF: 43450137148.5/25

Left: 0.532 $\pm$ 0.000

χ^2 /NDF: 17500739852.2/47

Left Out: 0.525 $\pm$ 0.000

χ^2 /NDF: 9623503169.9/24

Right: 1.247 $\pm$ 0.000

χ^2 /NDF: 91216902948.5/56

Right Out: 1.227 $\pm$ 0.000

χ^2 /NDF: 47683675613.4/30

In: 0.802 $\pm$ 0.000

χ^2 /NDF: 79272130075.7/48

Out: 0.803 $\pm$ 0.000

χ^2 /NDF: 87115238335.4/55

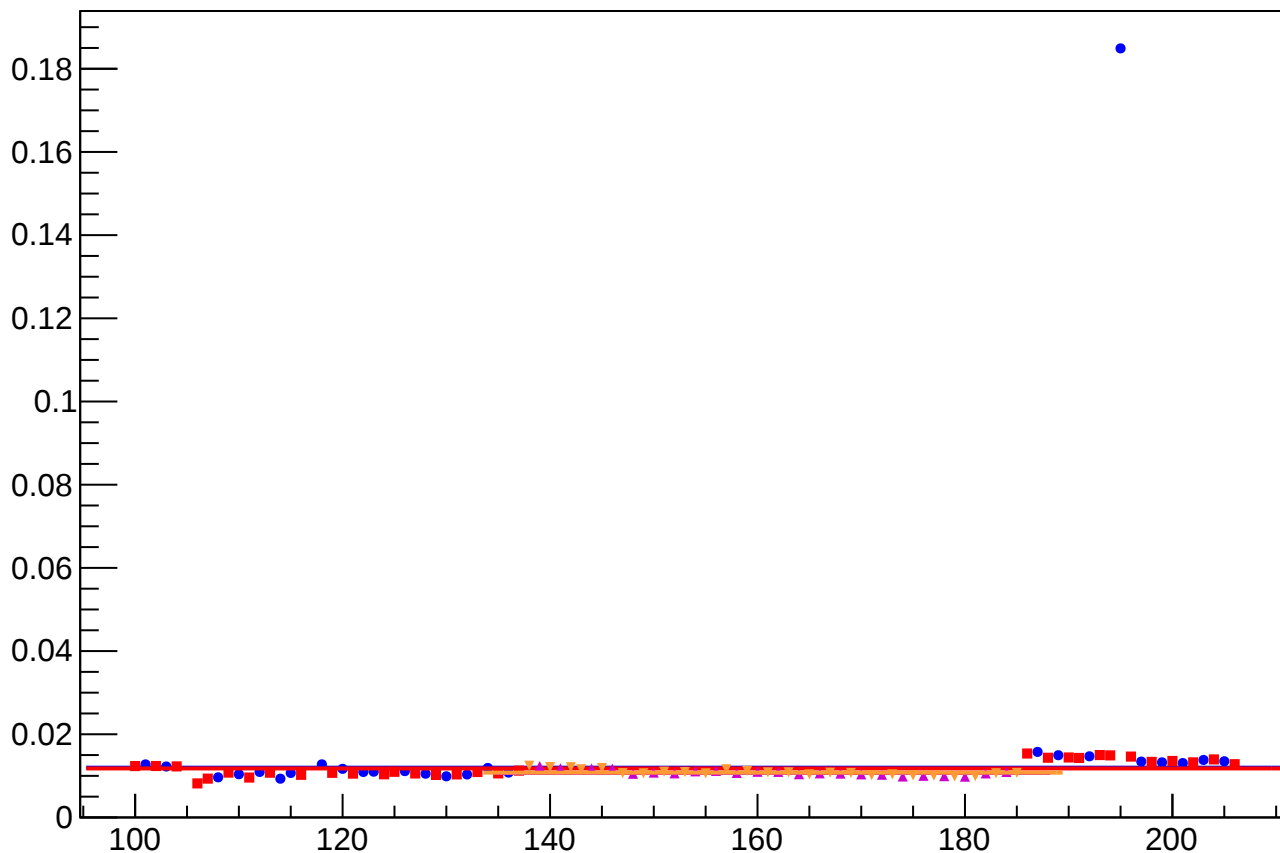
Left In: 0.540 $\pm$ 0.000

χ^2 /NDF: 7860539135.5/22

All: 0.802 $\pm$ 0.000

χ^2 /NDF: 166387491353.5

yield_bpm0l09X_rms vs Slug, Sign Corrected



Right In: 0.012+/-0.000 χ^2/NDF : 1885027.0/25

Left Out: 0.011+/-0.000 χ^2/NDF :131630.9/24

Right Out: 0.012+/-0.000 χ^2/NDF : 720714.7/30

Left In: 0.011+/-0.000 χ^2/NDF :119273.2/22

Left: 0.011 ± 0.000 χ^2/NDF : 251802.6/47

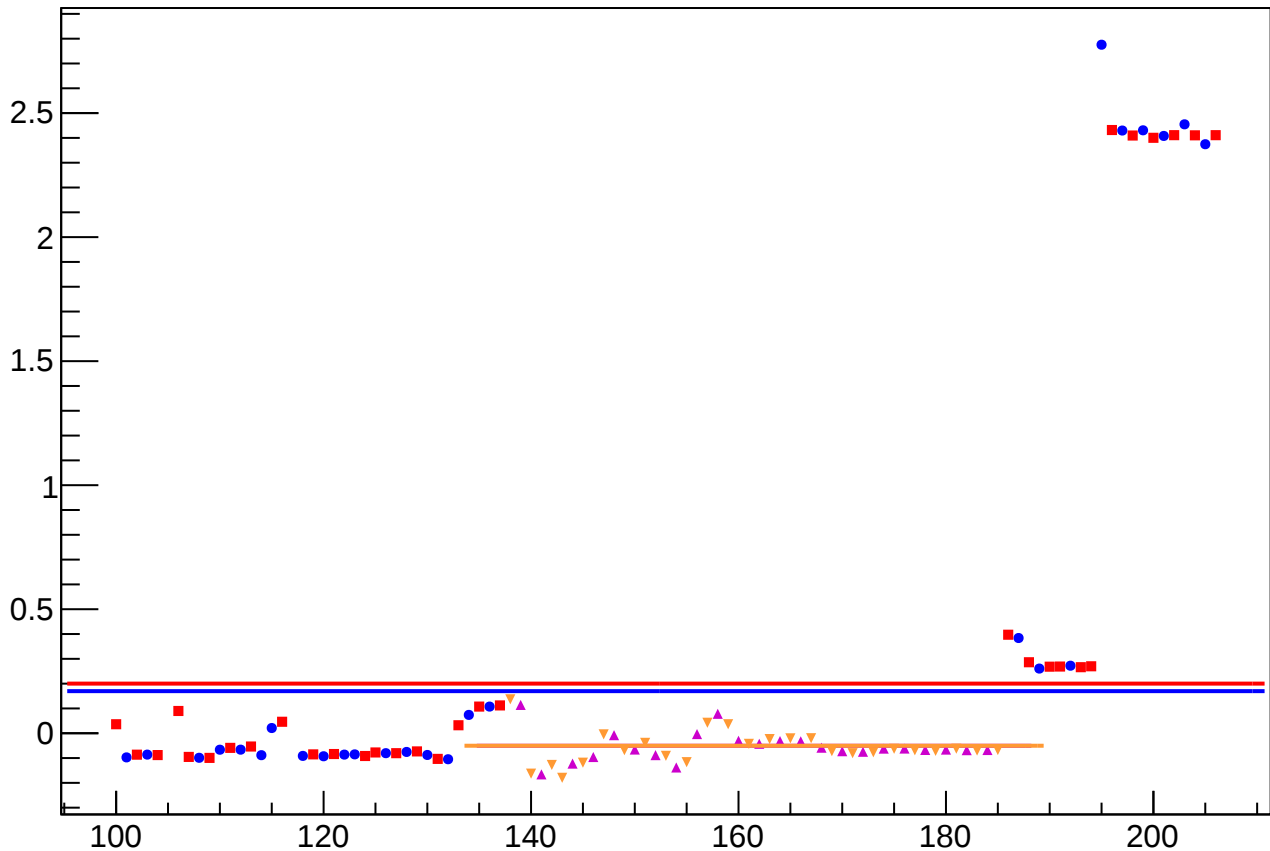
Right: 0.012+/-0.000 χ^2/NDF : 2608850.7/56

ln: 0.011+/-0.000 χ^2 /NDF:2174473.6/48

Out: 0.011+/-0.000 χ^2/NDF :975774.1/55

All: 0.011+/-0.000 χ^2/NDF : 3150348.2/104

yield_bpm0l09Y_mean vs Slug, Sign Corrected



Right In: 0.170+/-0.000

χ^2/NDF : 133540761895.1/25

Left: -0.050+/-0.000

χ^2/NDF : 13400329490.2/47

Left Out: -0.050+/-0.000

χ^2/NDF : 7271496478.6/24

Right: 0.186+/-0.000

χ^2/NDF : 271199983894.5/56

Right Out: 0.200+/-0.000

χ^2/NDF : 137461815590.4/30

In: -0.010+/-0.000

χ^2/NDF : 155443075879.8/48

Out: -0.002+/-0.000

χ^2/NDF : 168249966858.9/55

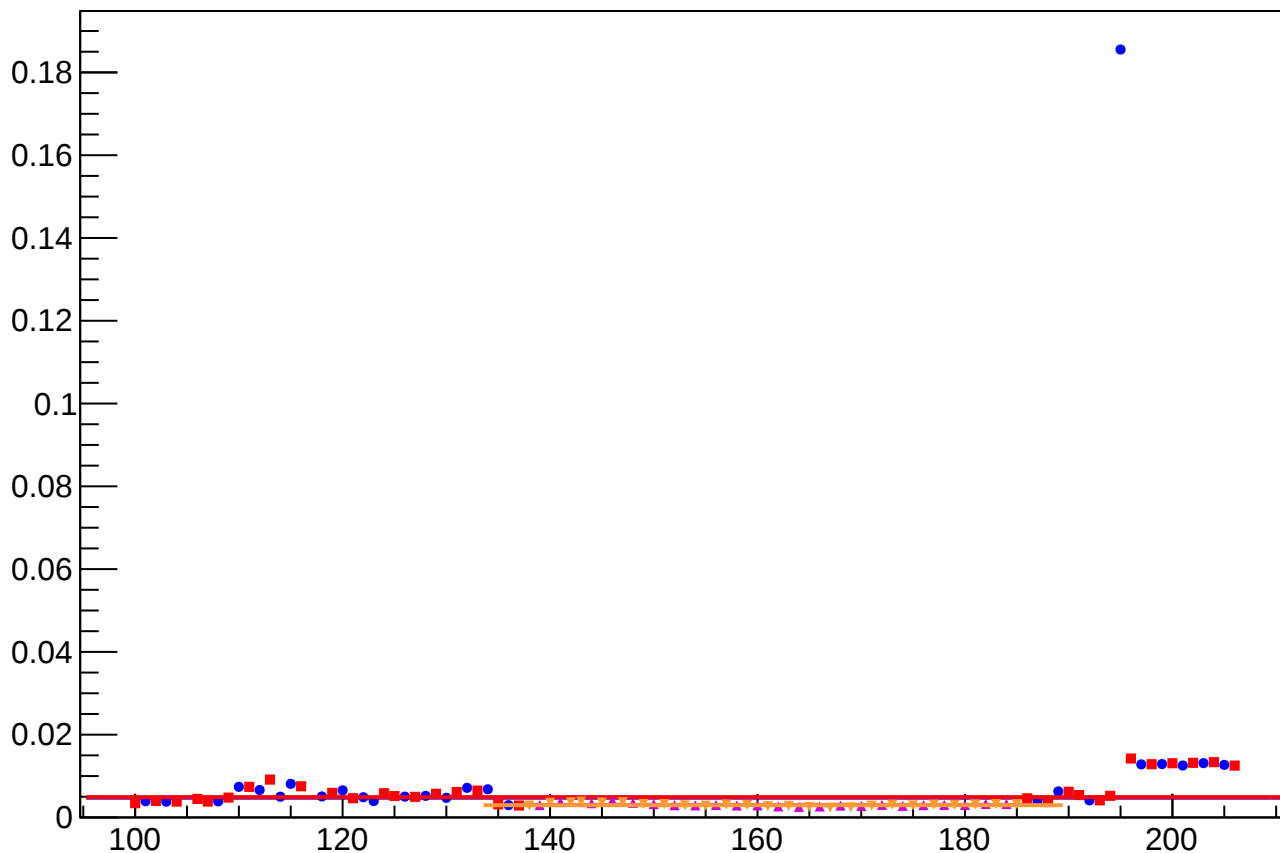
Left In: -0.051+/-0.000

χ^2/NDF : 6128769990.8/22

All: -0.006+/-0.000

χ^2/NDF : 323774461462.1

yield_bpm0l09Y_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 5770585.5/25

Left Out: 0.003+/-0.000 χ^2/NDF : 499039.1/24

Right Out: 0.005+/-0.000 χ^2/NDF : 4559312.5/30

Left In: 0.003+/-0.000 χ^2/NDF : 329068.1/22

Left: 0.003+/-0.000 χ^2/NDF : 831077.6/47

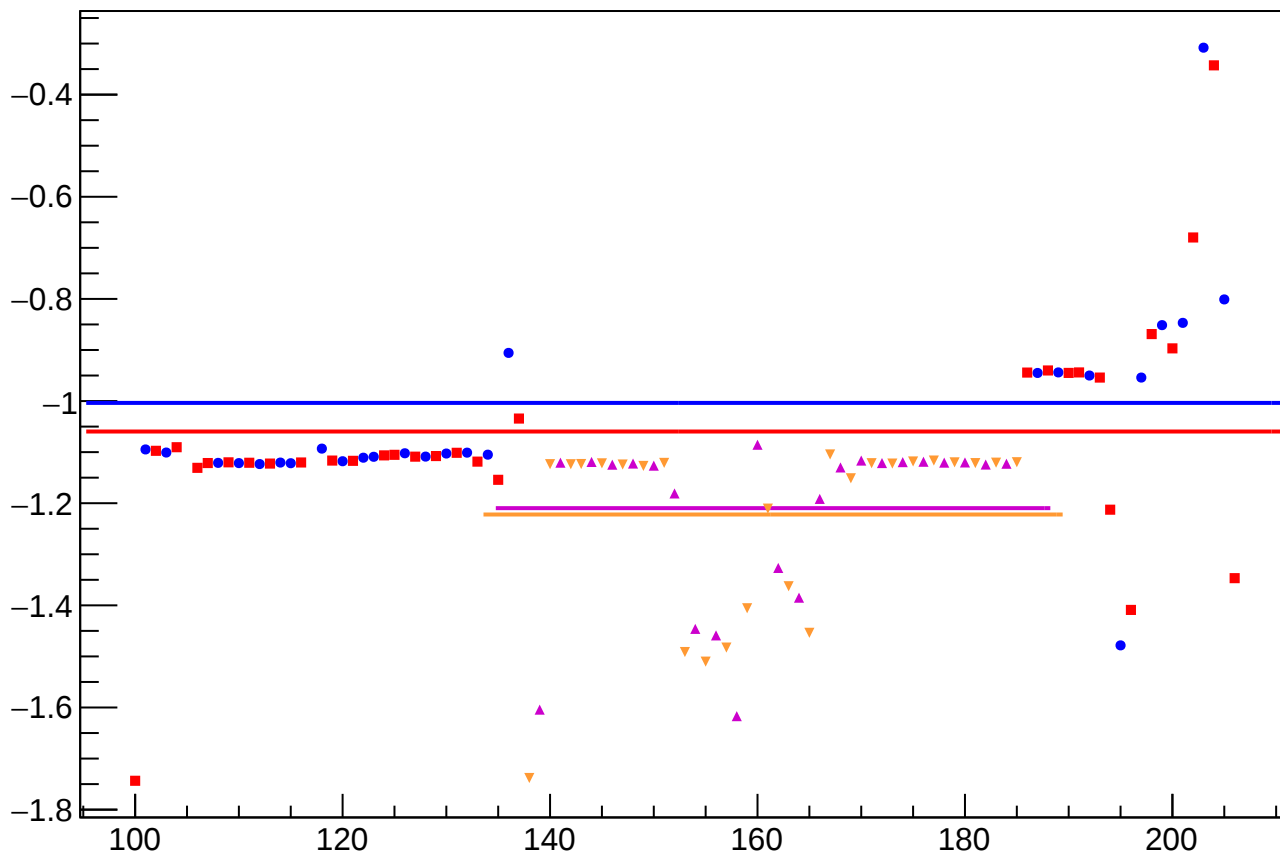
Right: 0.005+/-0.000 χ^2/NDF : 10334054.9/56

In: 0.003+/-0.000 χ^2/NDF : 8165810.8/48

Out: 0.003+/-0.000 χ^2/NDF : 7827672.2/55

All: 0.003+/-0.000 χ^2/NDF : 15993562.5/104

yield_bpm0l10X_mean vs Slug, Sign Corrected



Right In: -1.004+/-0.000

χ^2/NDF : 4013822694.4/25

Left: -1.216+/-0.000

χ^2/NDF : 9796254294.5/47

Left Out: -1.222+/-0.000

χ^2/NDF : 5279548861.3/24

Right: -1.034+/-0.000

χ^2/NDF : 8247610821.3/56

Right Out: -1.060+/-0.000

χ^2/NDF : 4094157306.8/30

In: -1.146+/-0.000

χ^2/NDF : 10890625947.5/48

Out: -1.166+/-0.000

χ^2/NDF : 11089232365.5/55

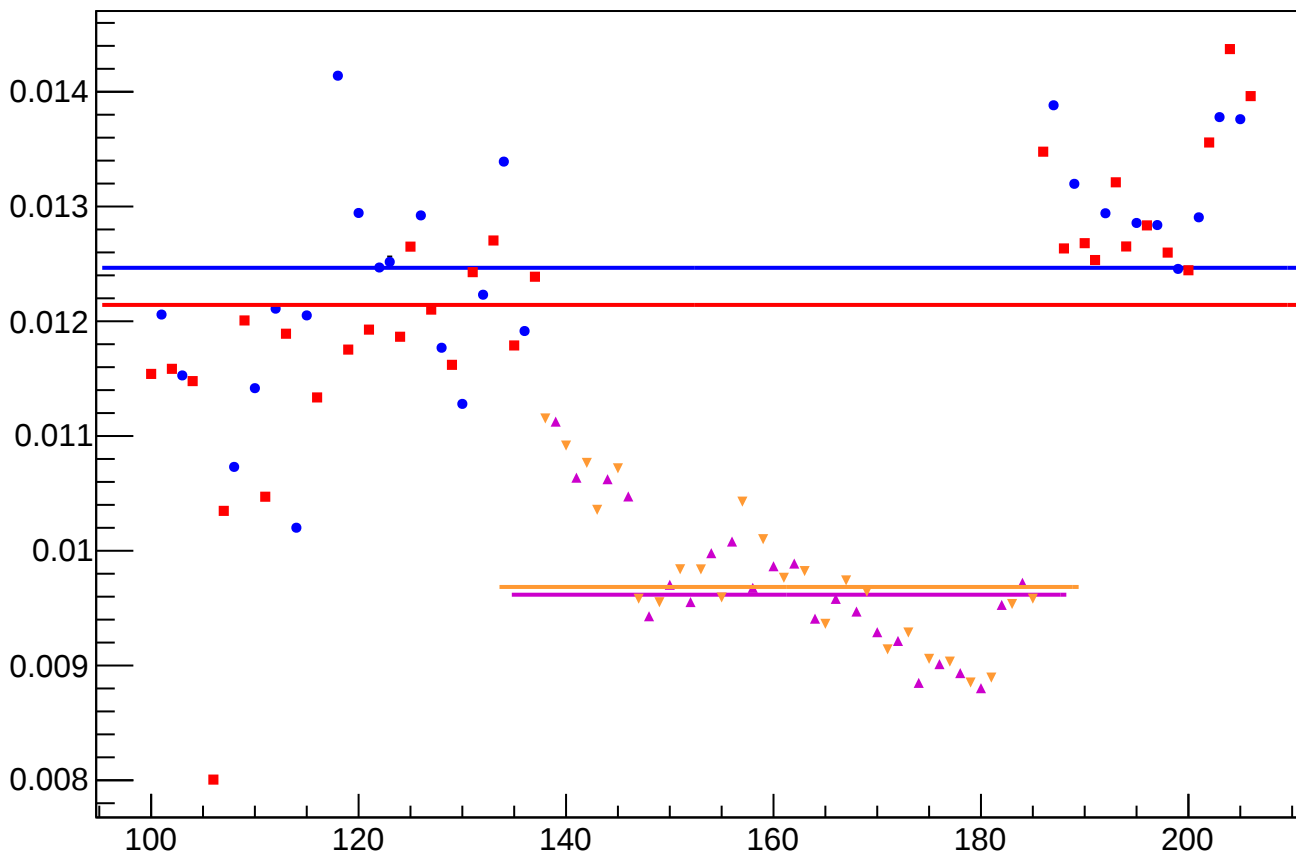
Left In: -1.210+/-0.000

χ^2/NDF : 4502367902.8/22

All: -1.157+/-0.000

χ^2/NDF : 22036271491.1/171

yield_bpm0l10X_rms vs Slug, Sign Corrected



Right In: 0.012+/-0.000 χ^2/NDF : 119827.0/25

Left Out: 0.010+/-0.000 χ^2/NDF :134863.6/24

Right Out: 0.012+/-0.000 χ^2/NDF : 319826.7/30

Left In: 0.010+/-0.000 χ^2/NDF :119823.1/22

Left: 0.010+/-0.000 χ^2/NDF : 255532.7/47

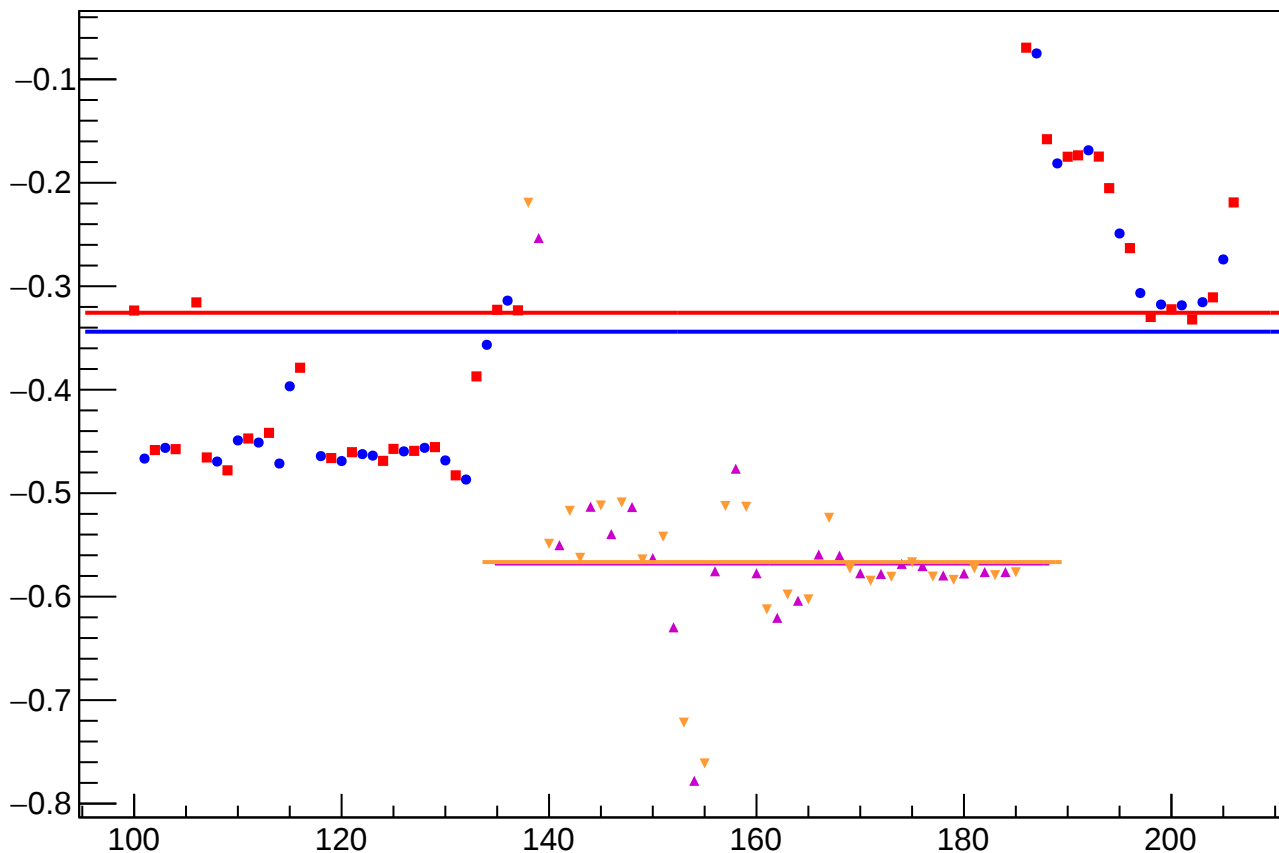
Right: 0.012+/-0.000 χ^2/NDF : 448955.4/56

In: 0.010+/-0.000 χ^2/NDF :1147182.8/48

Out: 0.011+/-0.000 χ^2/NDF :1239746.3/55

All: 0.011+/-0.000 χ^2/NDF : 2387209.0/104

yield_bpm0l10Y_mean vs Slug, Sign Corrected



Right In: -0.344+/-0.000

χ^2/NDF : 8089695898.5/25

Left: -0.567+/-0.000

χ^2/NDF : 23829000396.4/47

Left Out: -0.567+/-0.000

χ^2/NDF : 13368458519.3/24

Right: -0.334+/-0.000

χ^2/NDF : 19502796292.3/56

Right Out: -0.326+/-0.000

χ^2/NDF : 11258824622.0/30

In: -0.484+/-0.000

χ^2/NDF : 46320700119.3/48

Out: -0.476+/-0.000

χ^2/NDF : 59412991831.6/55

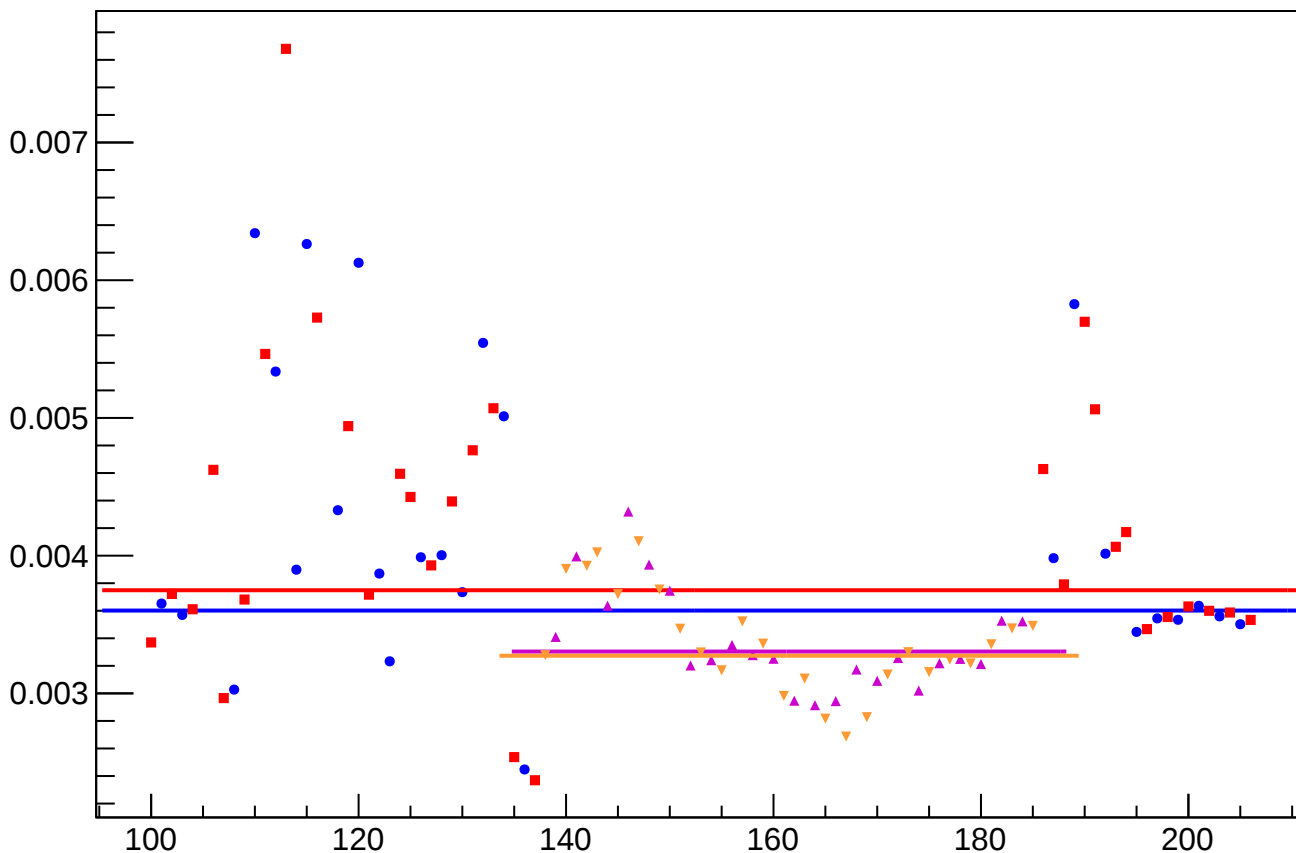
Left In: -0.568+/-0.000

χ^2/NDF : 10458990019.9/22

All: -0.480+/-0.000

χ^2/NDF : 105806912203.3

yield_bpm0l10Y_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 994446.2/25

Left Out: 0.003+/-0.000 χ^2/NDF :394865.4/24

Right Out: 0.004+/-0.000 χ^2/NDF : 1071370.3/30

Left In: 0.003+/-0.000 χ^2/NDF :286064.1/22

Left: 0.003+/-0.000 χ^2/NDF : 682340.4/47

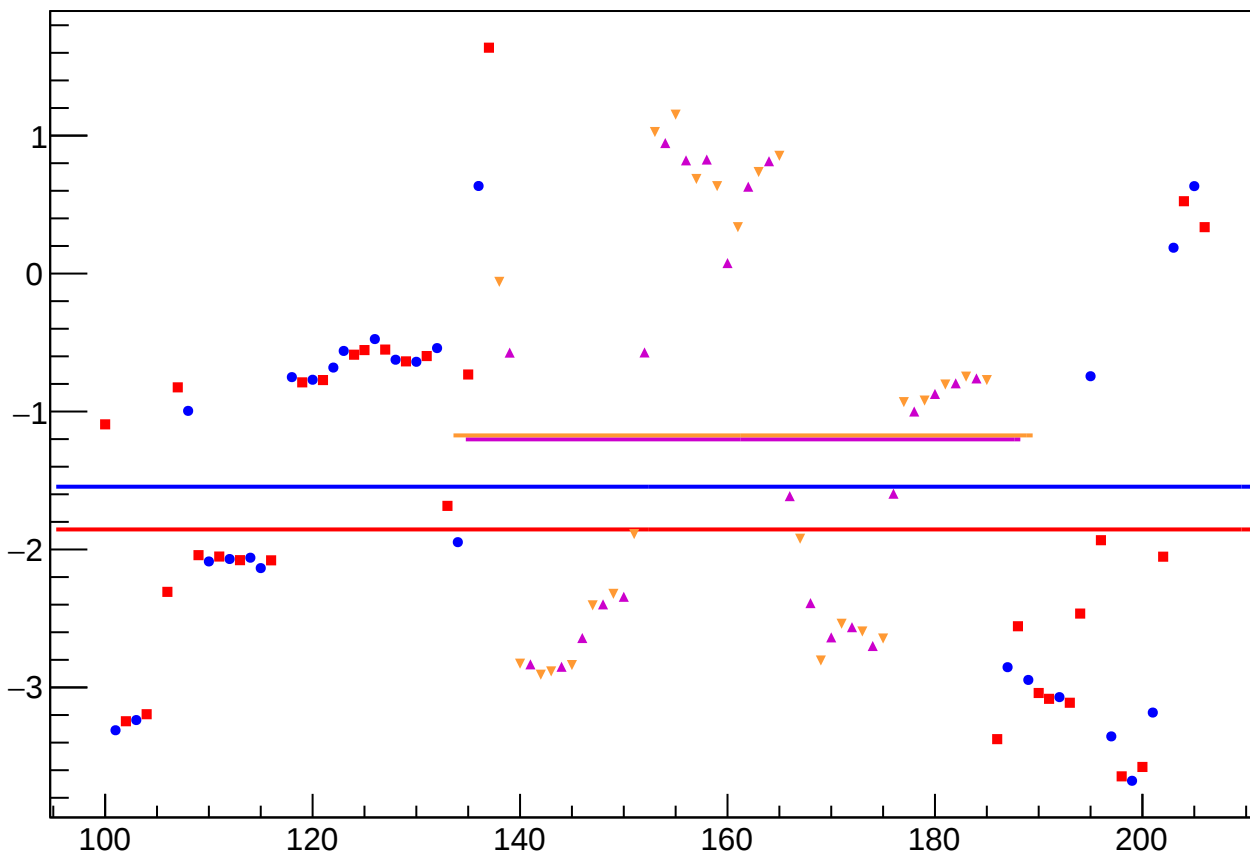
Right: 0.004+/-0.000 χ^2/NDF : 2085837.3/56

In: 0.003+/-0.000 χ^2/NDF :1378522.2/48

Out: 0.003+/-0.000 χ^2/NDF :1737174.3/55

All: 0.003+/-0.000 χ^2/NDF : 3118919.3/104

yield_bpm0r03X_mean vs Slug, Sign Corrected



Right In: -1.545+/-0.000

χ^2/NDF : 5089436898.7/25

Left Out: -1.173+/-0.000

χ^2/NDF : 6882684653.2/24

Right Out: -1.855+/-0.000

χ^2/NDF : 4636093338.0/30

Left In: -1.202+/-0.000

χ^2/NDF : 5606782515.9/22

Left: -1.187+/-0.000

χ^2/NDF : 12490828303.3/47

Right: -1.710+/-0.000

χ^2/NDF : 9845516814.5/56

In: -1.347+/-0.000

χ^2/NDF : 10855278767.3/48

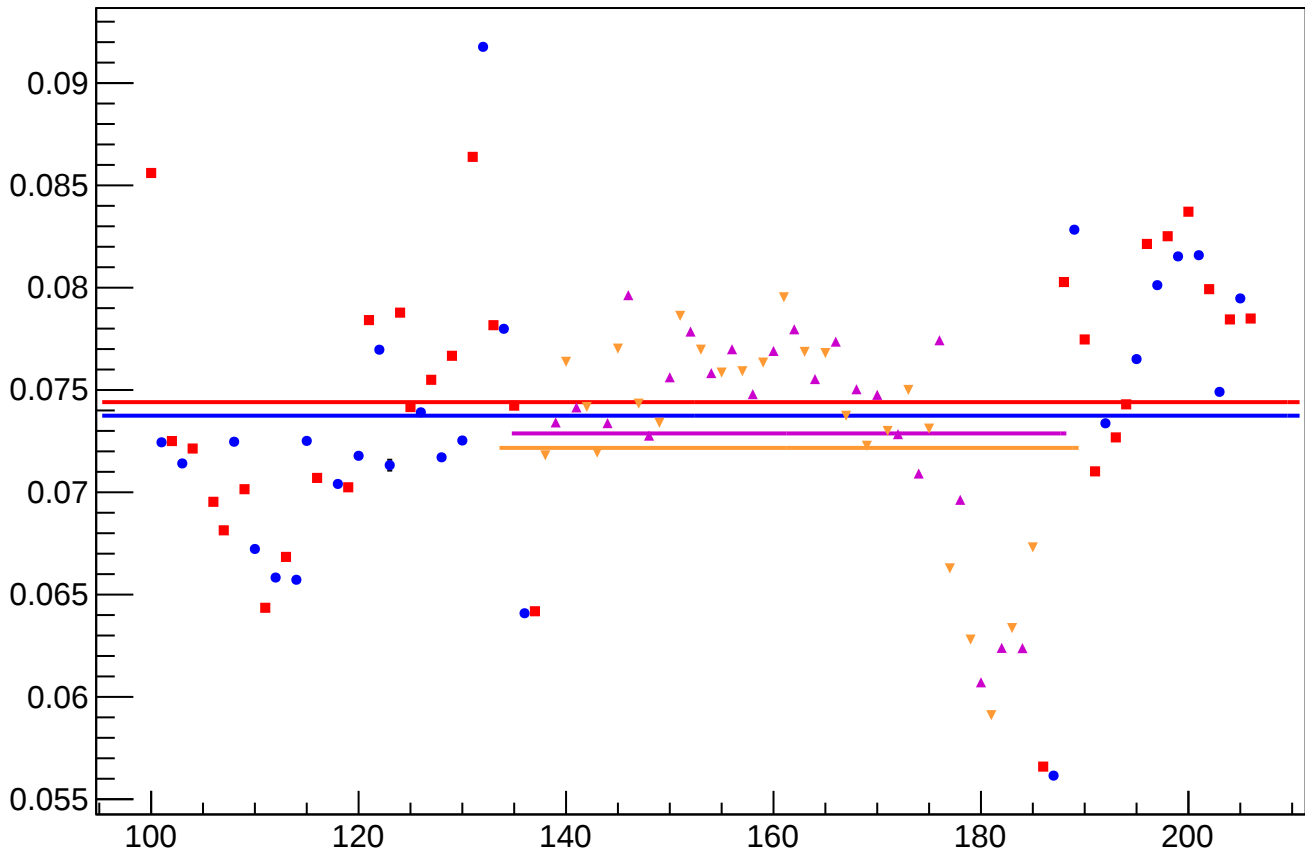
Out: -1.471+/-0.000

χ^2/NDF : 12220580904.6/55

All: -1.412+/-0.000

χ^2/NDF : 23120381125.2/100

yield_bpm0r03X_rms vs Slug, Sign Corrected



Right In: 0.074 $\pm$ 0.000 χ^2 /NDF: 185144.3/25

Left Out: 0.072 $\pm$ 0.000 χ^2 /NDF:222263.8/24

Right Out: 0.074 $\pm$ 0.000 χ^2 /NDF: 231533.6/30

Left In: 0.073 $\pm$ 0.000 χ^2 /NDF:183503.0/22

Left: 0.073 $\pm$ 0.000 χ^2 /NDF: 407423.5/47

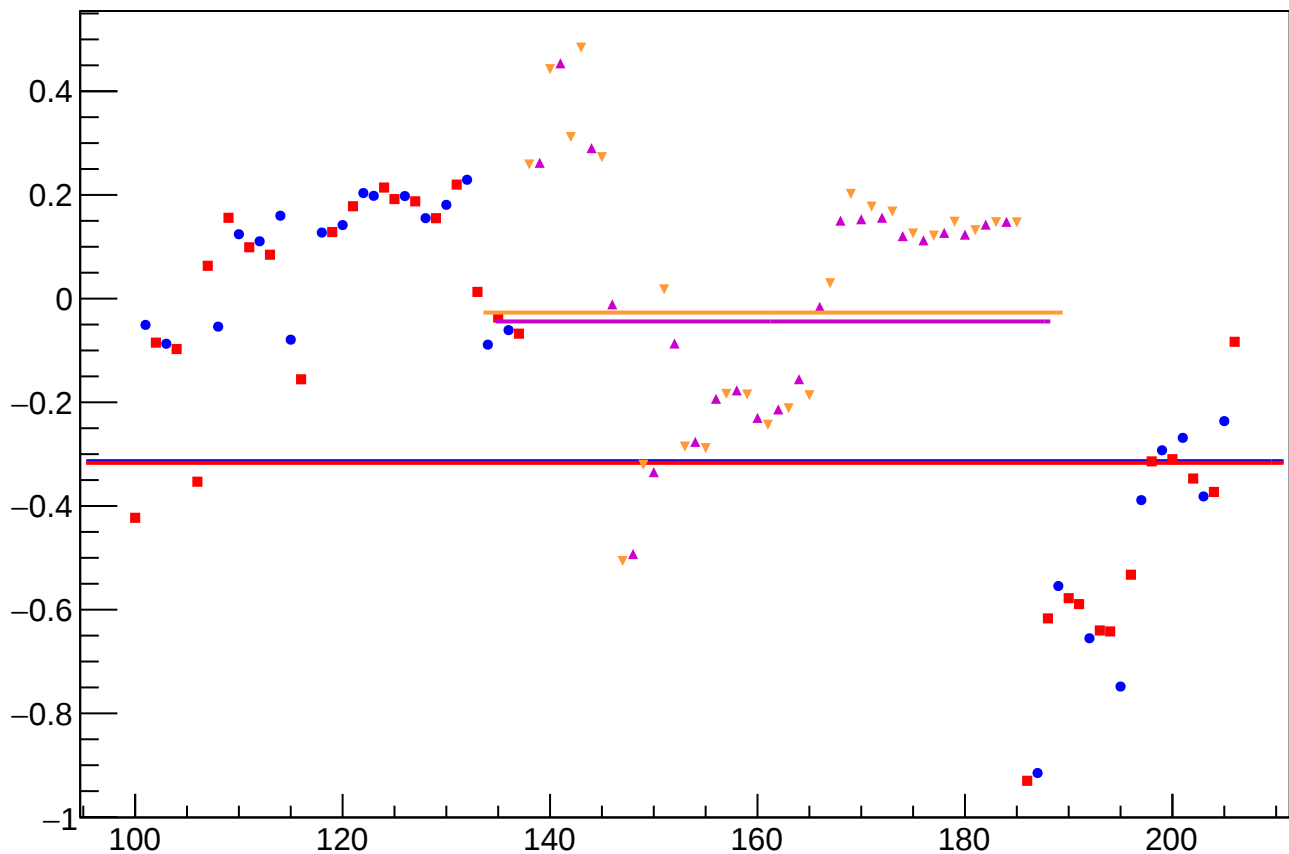
Right: 0.074 $\pm$ 0.000 χ^2 /NDF: 417773.8/56

In: 0.073 $\pm$ 0.000 χ^2 /NDF:370677.6/48

Out: 0.073 $\pm$ 0.000 χ^2 /NDF:468891.8/55

All: 0.073 $\pm$ 0.000 χ^2 /NDF: 839624.8/104

yield_bpm0r03Y_mean vs Slug, Sign Corrected



Right In: -0.314+/-0.000 χ^2/NDF : 12247489912.3/25

Left Out: -0.027+/-0.000 χ^2/NDF : 20376761328.6/24

Right Out: -0.317+/-0.000 χ^2/NDF : 12221142271.7/30

Left In: -0.044+/-0.000 χ^2/NDF : 15718556282.1/22

Left: -0.035+/-0.000 χ^2/NDF : 36148383394.4/47

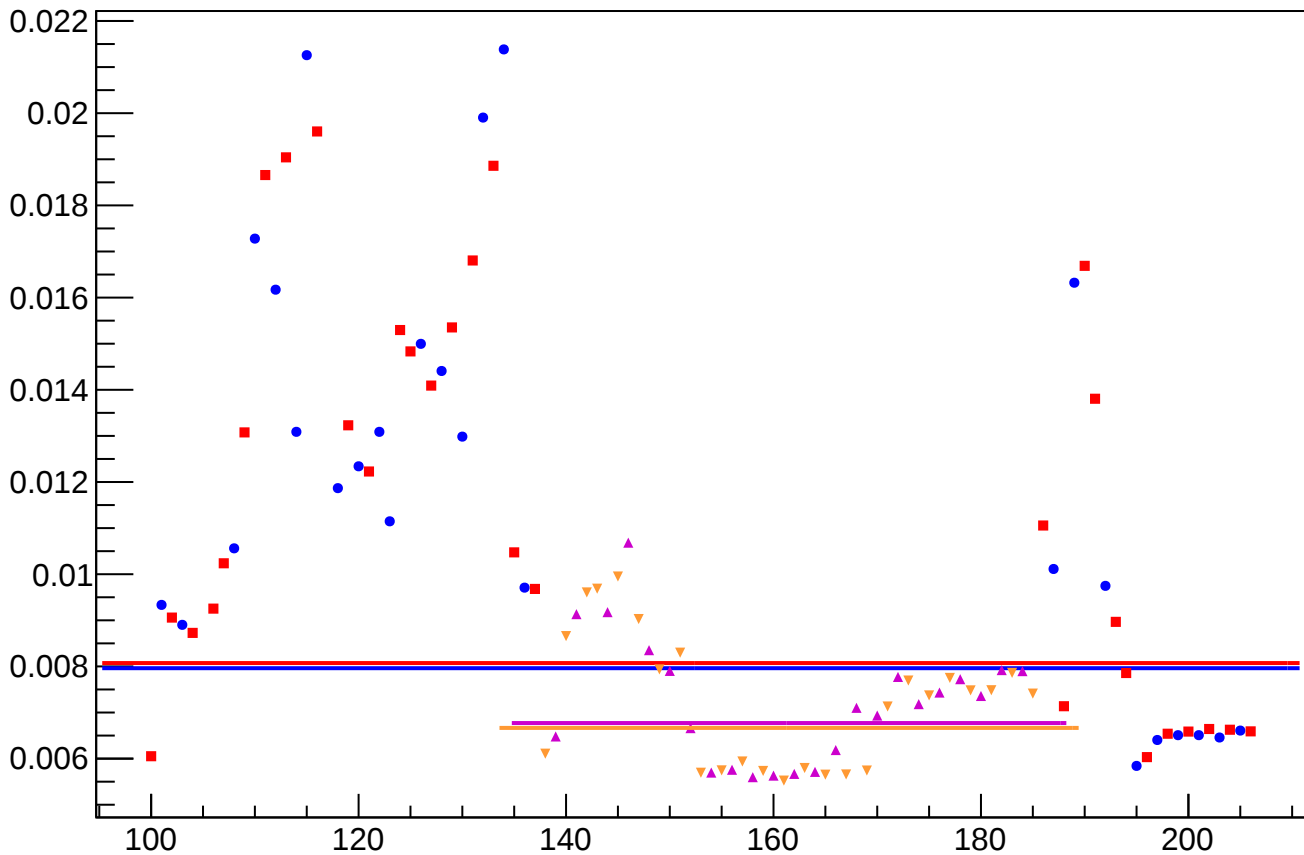
Right: -0.315+/-0.000 χ^2/NDF : 24469582354.1/56

In: -0.134+/-0.000 χ^2/NDF : 36298889269.7/48

Out: -0.124+/-0.000 χ^2/NDF : 43252702033.5/55

All: -0.129+/-0.000 χ^2/NDF : 79576059287.7/100

yield_bpm0r03Y_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 2650343.6/25

Left Out: 0.007+/-0.000 χ^2/NDF :1143768.6/24

Right Out: 0.008+/-0.000 χ^2/NDF : 2949064.6/30

Left In: 0.007+/-0.000 χ^2/NDF :934050.3/22

Left: 0.007+/-0.000 χ^2/NDF : 2081836.1/47

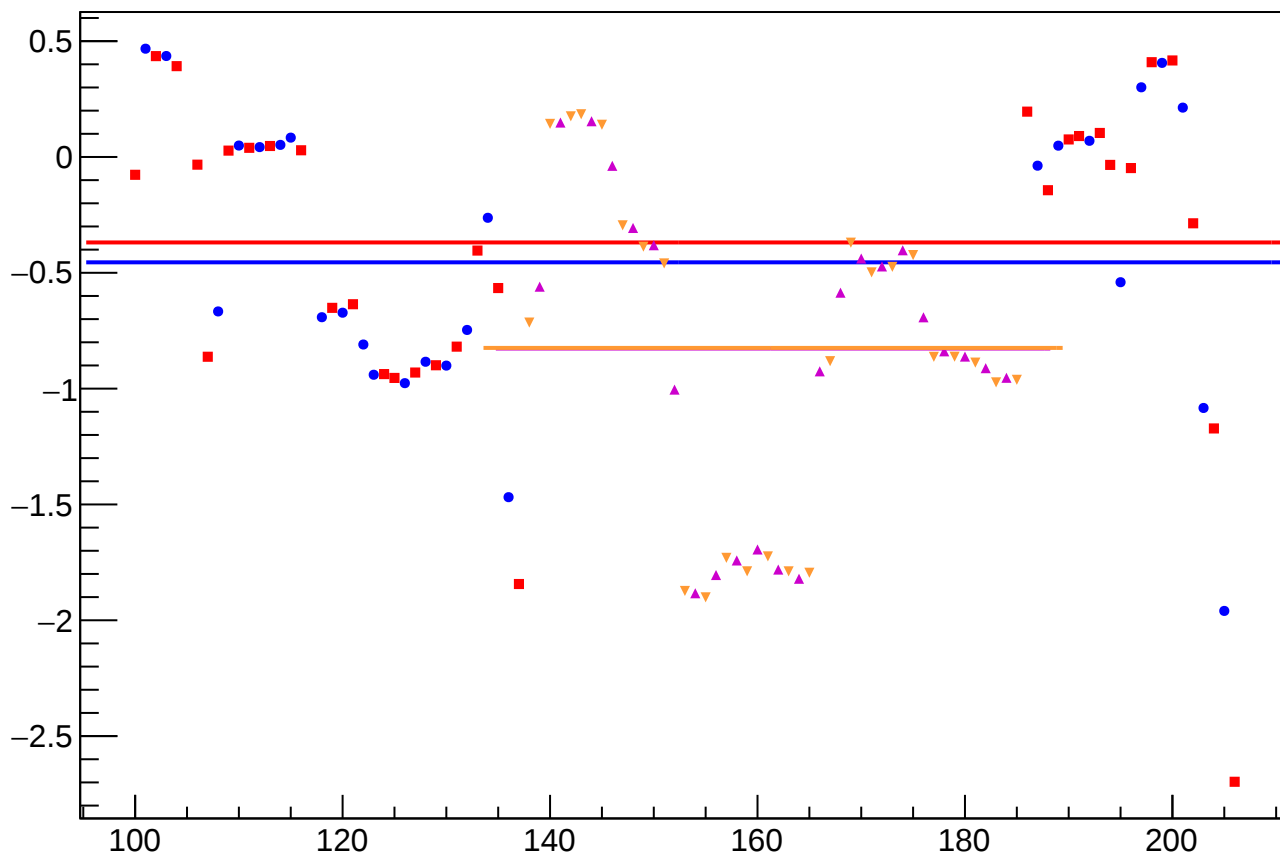
Right: 0.008+/-0.000 χ^2/NDF : 5601654.0/56

In: 0.007+/-0.000 χ^2/NDF :3909170.4/48

Out: 0.007+/-0.000 χ^2/NDF :4594578.1/55

All: 0.007+/-0.000 χ^2/NDF : 8504209.8/104

yield_bpm0r05X_mean vs Slug, Sign Corrected



Right In: -0.455 ± 0.000 $\chi^2/\text{NDF}: 755856255.6/25$

Left Out: -0.824 ± 0.000 $\chi^2/\text{NDF}: 1103610806.5/24$

Right Out: -0.369 ± 0.000 $\chi^2/\text{NDF}: 1061262447.5/30$

Left In: -0.827 ± 0.000 $\chi^2/\text{NDF}: 921651117.3/22$

Left: -0.826 ± 0.000 $\chi^2/\text{NDF}: 2025270716.0/47$

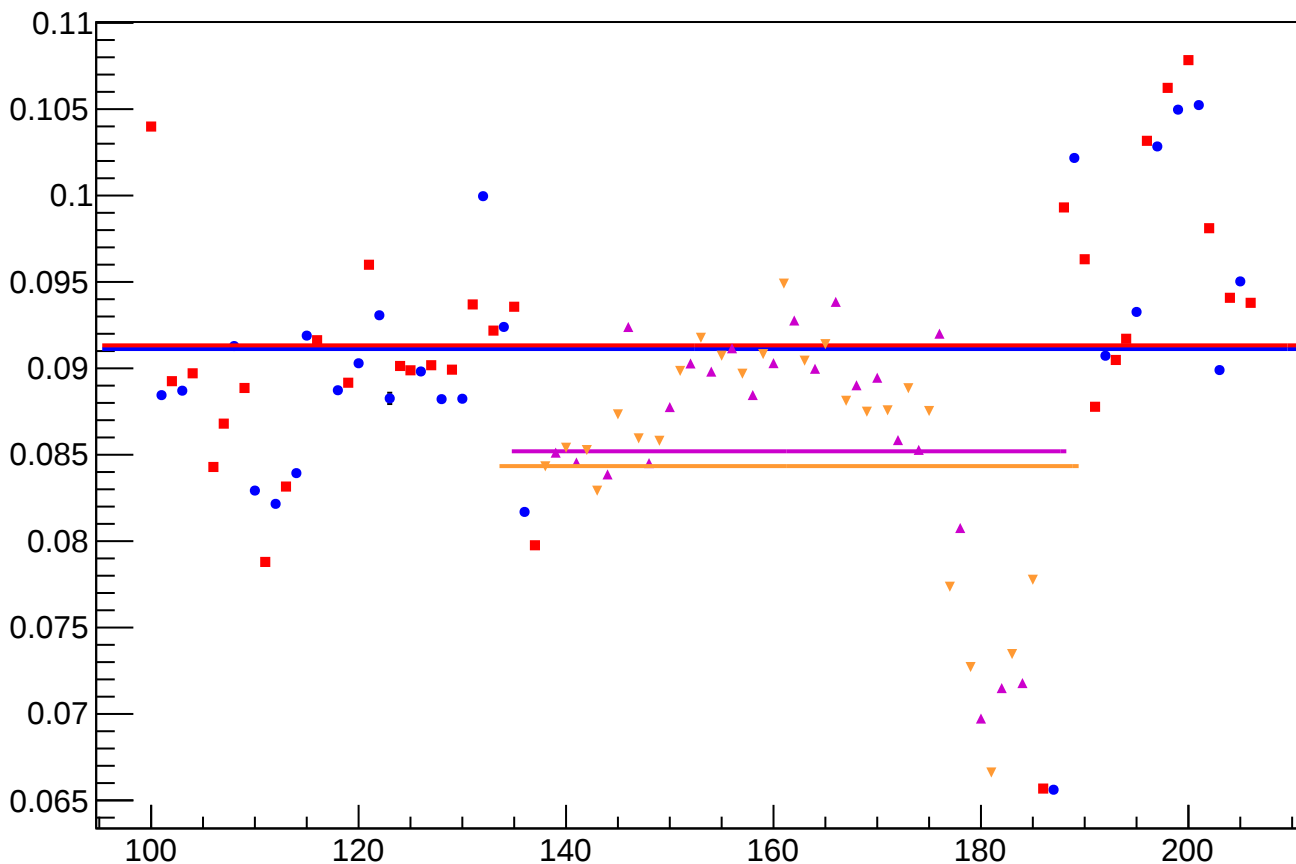
Right: -0.409 ± 0.000 $\chi^2/\text{NDF}: 1823247782.7/56$

In: -0.679 ± 0.000 $\chi^2/\text{NDF}: 1807038659.3/48$

Out: -0.636 ± 0.000 $\chi^2/\text{NDF}: 2383323228.8/55$

All: -0.657 ± 0.000 $\chi^2/\text{NDF}: 4194150629.2/1$

yield_bpm0r05X_rms vs Slug, Sign Corrected



Right In: 0.091 $\pm$ 0.000 χ^2 /NDF: 189093.6/25

Left Out: 0.084 $\pm$ 0.000 χ^2 /NDF:288312.6/24

Right Out: 0.091 $\pm$ 0.000 χ^2 /NDF: 281544.4/30

Left In: 0.085 $\pm$ 0.000 χ^2 /NDF:238313.9/22

Left: 0.085 $\pm$ 0.000 χ^2 /NDF: 528427.1/47

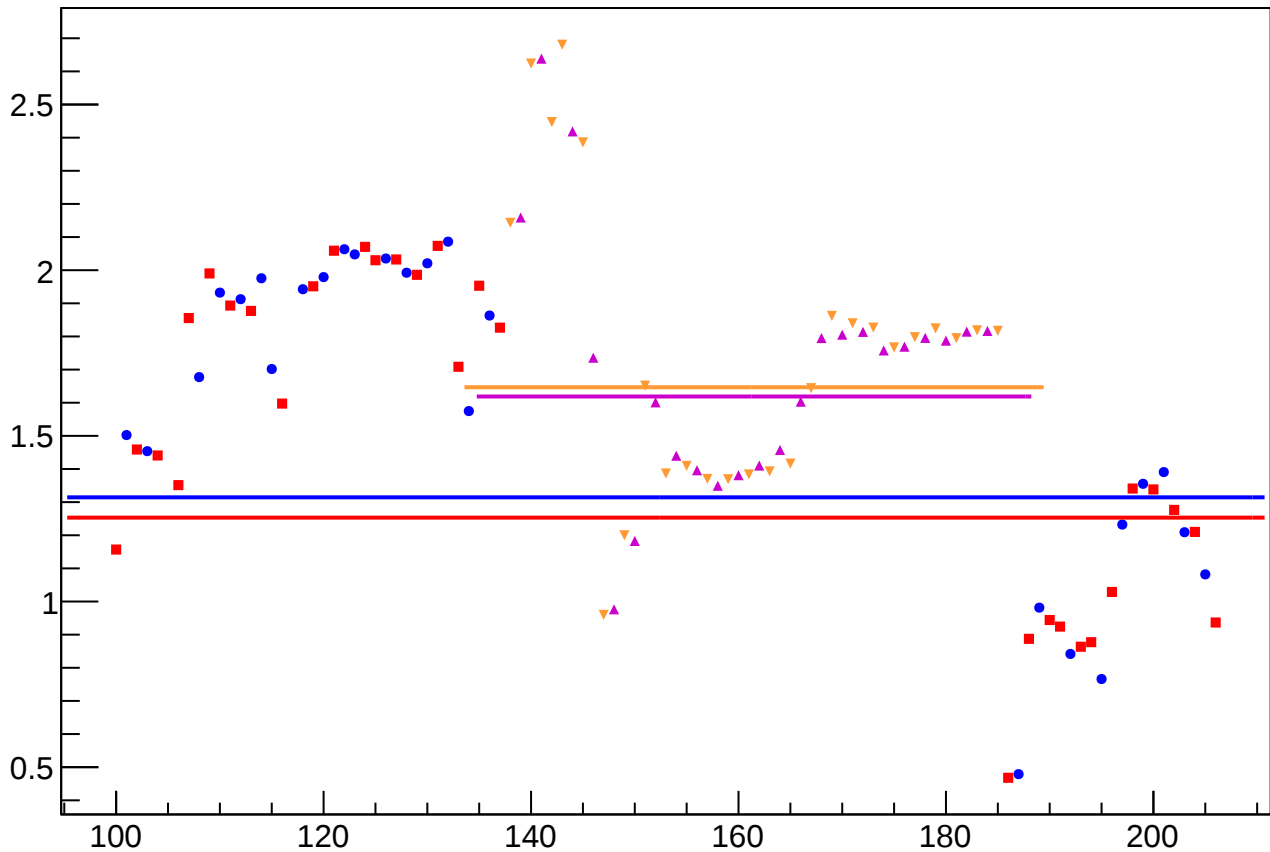
Right: 0.091 $\pm$ 0.000 χ^2 /NDF: 470713.1/56

In: 0.088 $\pm$ 0.000 χ^2 /NDF:492930.6/48

Out: 0.087 $\pm$ 0.000 χ^2 /NDF:672763.5/55

All: 0.087 $\pm$ 0.000 χ^2 /NDF: 1166120.0/104

yield_bpm0r05Y_mean vs Slug, Sign Corrected



Right In: 1.314 $\pm$ 0.000 χ^2 /NDF: 13306418191.0/25

Left Out: 1.647 $\pm$ 0.000 χ^2 /NDF: 26535241545.7/24

Right Out: 1.253 $\pm$ 0.000 χ^2 /NDF: 13360921156.7/30

Left In: 1.619 $\pm$ 0.000 χ^2 /NDF: 20618198188.1/22

Left: 1.633 $\pm$ 0.000 χ^2 /NDF: 47231460201.8/47

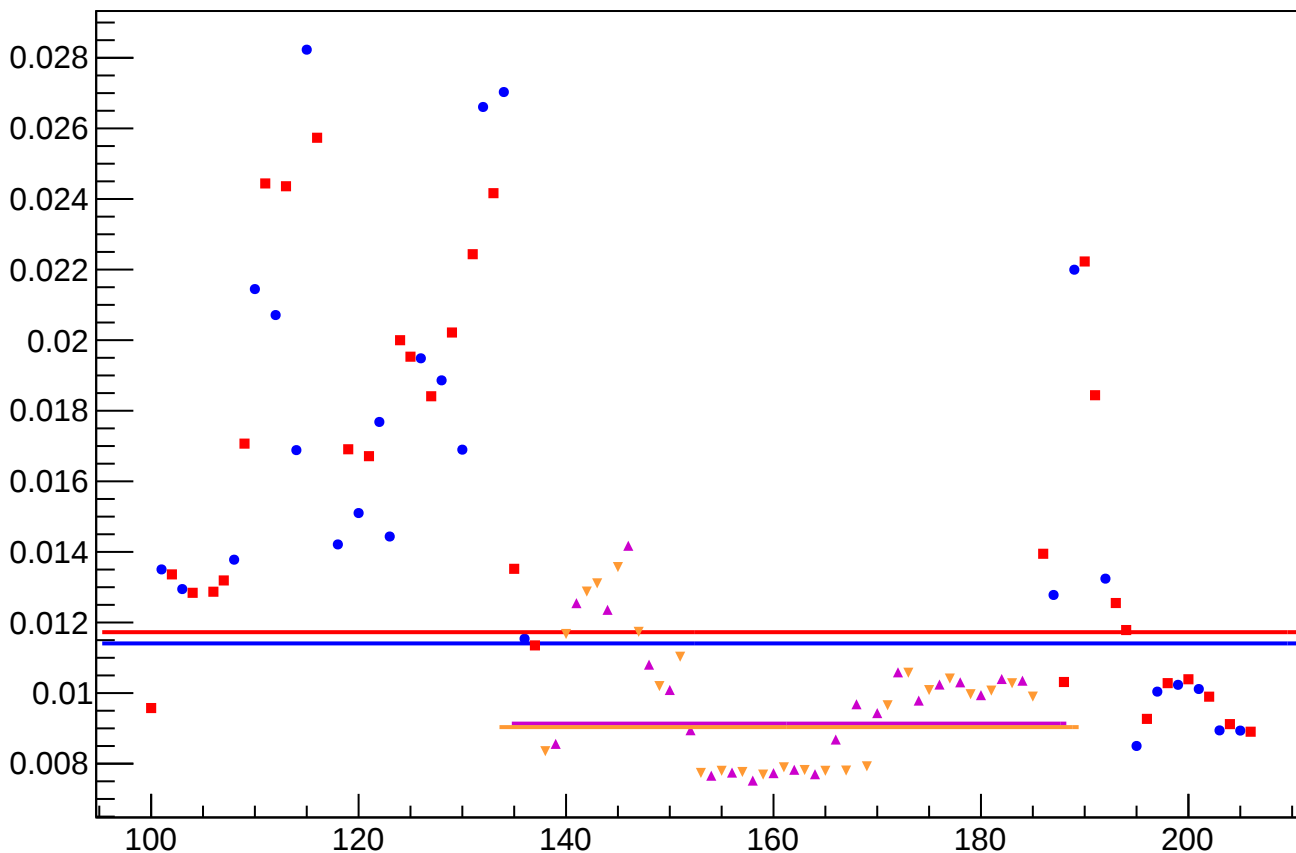
Right: 1.283 $\pm$ 0.000 χ^2 /NDF: 26834934351.4/56

In: 1.524 $\pm$ 0.000 χ^2 /NDF: 39424652290.5/48

Out: 1.525 $\pm$ 0.000 χ^2 /NDF: 49860025898.1/55

All: 1.525 $\pm$ 0.000 χ^2 /NDF: 89284751405.1/102

yield_bpm0r05Y_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 2021951.0/25

Left Out: 0.009+/-0.000 χ^2/NDF :1042871.8/24

Right Out: 0.012+/-0.000 χ^2/NDF : 2309749.9/30

Left In: 0.009+/-0.000 χ^2/NDF :878356.2/22

Left: 0.009+/-0.000 χ^2/NDF : 1923188.0/47

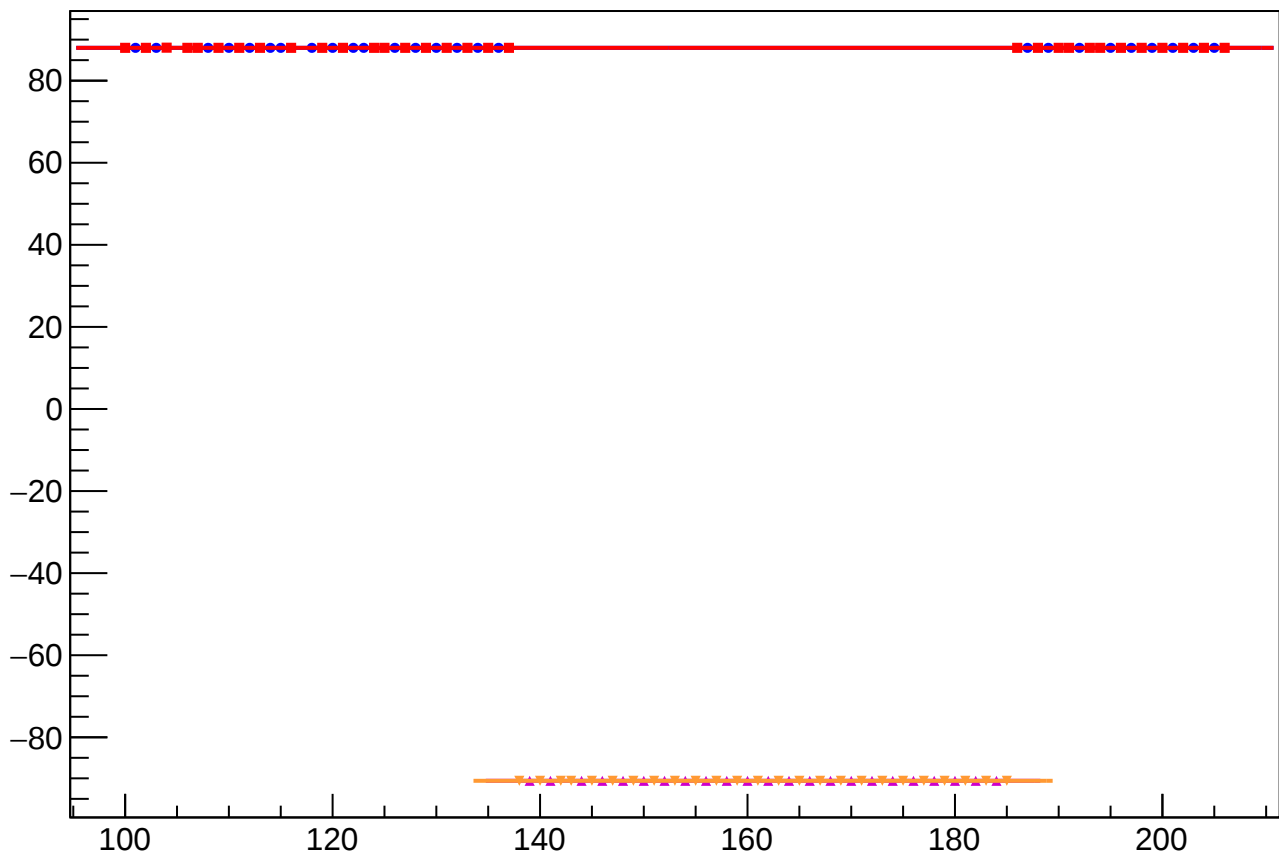
Right: 0.012+/-0.000 χ^2/NDF : 4340772.7/56

In: 0.010+/-0.000 χ^2/NDF :3513401.6/48

Out: 0.010+/-0.000 χ^2/NDF :4283555.0/55

All: 0.010+/-0.000 χ^2/NDF : 7797177.6/104

epics_VWienAngles_mean vs Slug, Sign Corrected



Right In: 88.001+/-0.000 χ^2/NDF : 5273276.4/25

Left Out: -90.599+/-0.000 χ^2/NDF : 5785821.4/24

Right Out: 88.002+/-0.000 χ^2/NDF : 80690855910129779772655403008.0/30

Left In: -90.599+/-0.000 χ^2/NDF : 7134230.8/22

Left: -90.599+/-0.000 χ^2/NDF : 11903242.1/47

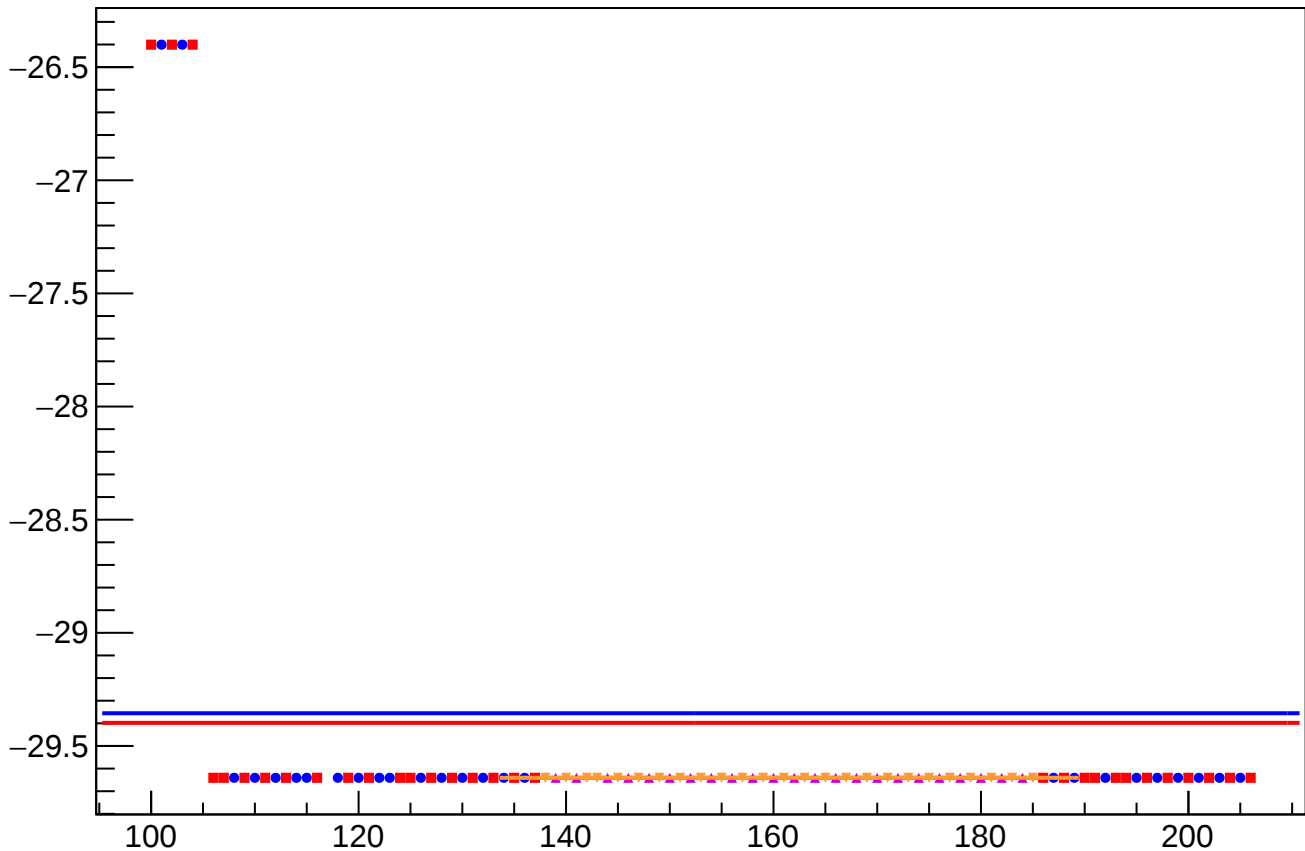
Right: 88.001+/-0.000 χ^2/NDF : 8196635545330122

In: -14.284+/-0.000 χ^2/NDF : 24479243129591808

Out: -10.531+/-0.000 χ^2/NDF : 2724198498669370

All: -12.317+/-0.000 χ^2/NDF : 517443755255

epics_HWienAngles_mean vs Slug, Sign Corrected



Right In: -29.355+/-0.000

χ^2/NDF : 1129635768358204766535623334952960.0/25

Left Out: -29.641+/-0.000

χ^2/NDF : 530354.3/24

Right Out: -29.398+/-0.000

χ^2/NDF : 1126471144186035324568812212191232.0/30

Left In: -29.641+/-0.000

χ^2/NDF : 382603.8/22

Left: -29.641+/-0.000 χ^2/NDF : 741150.6/47

Right: -29.378+/-0.000

χ^2/NDF : 225740564875344

In: -29.519+/-0.000

χ^2/NDF : 11921069204081479

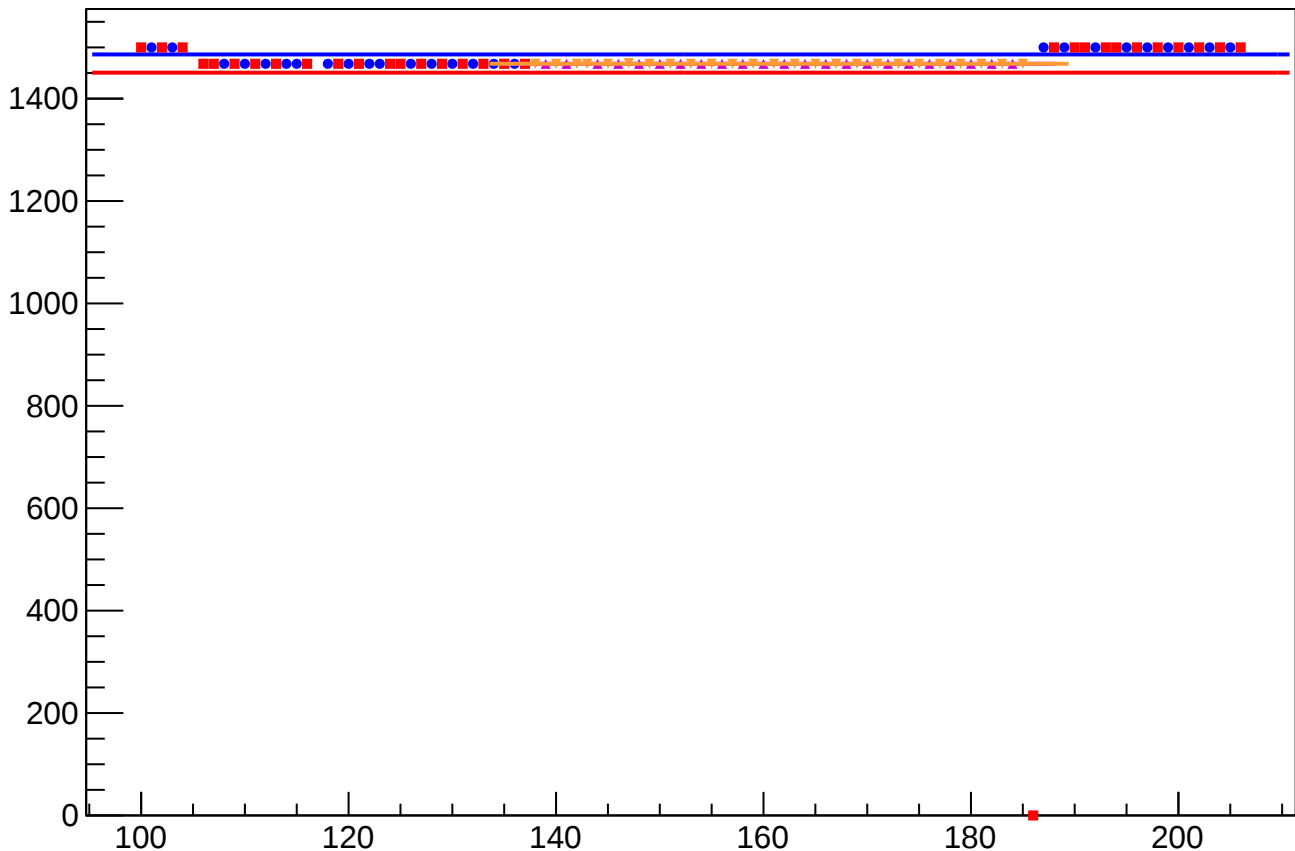
Out: -29.532+/-0.000

χ^2/NDF : 1176813489487375

All: -29.526+/-0.000

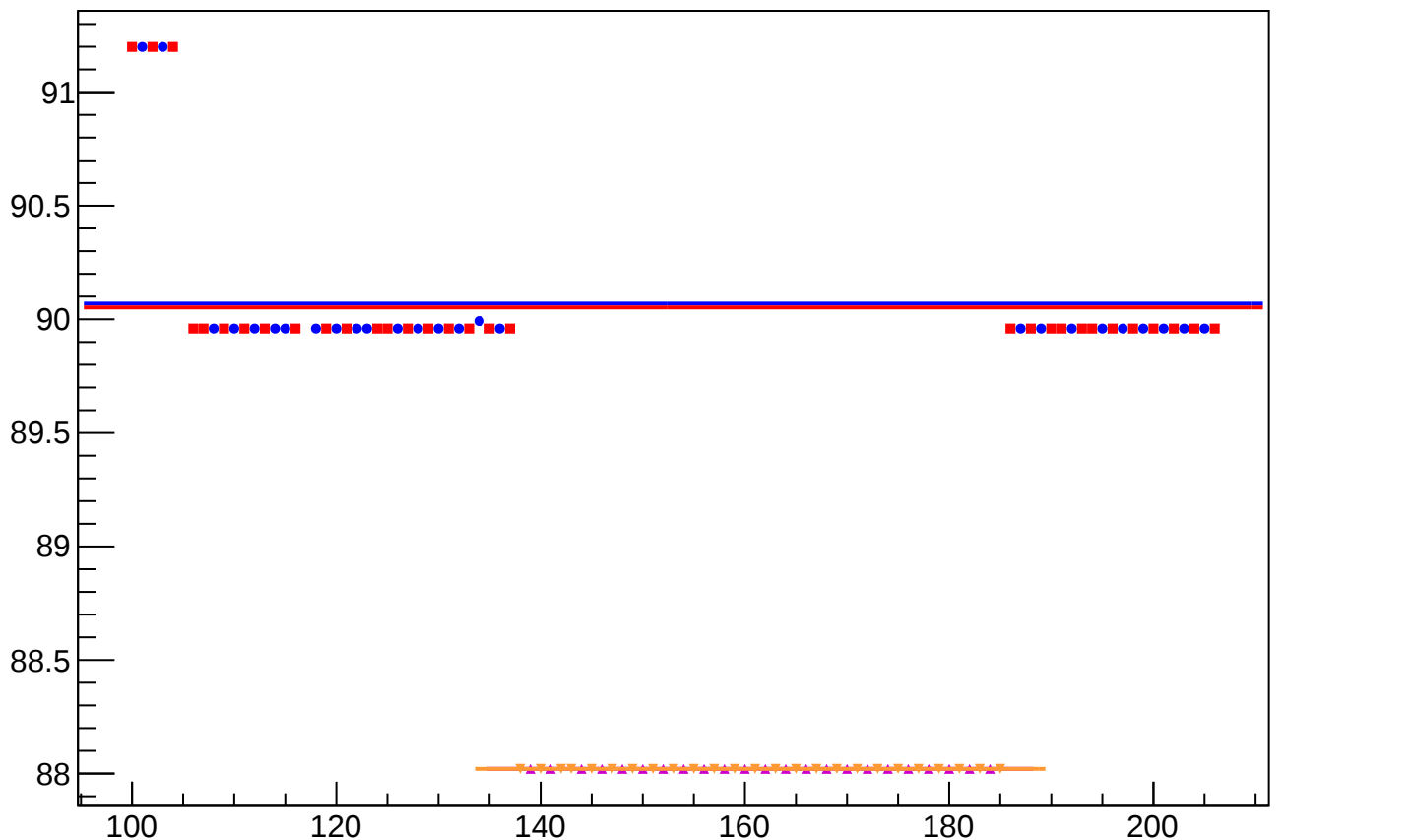
χ^2/NDF : 236920109758

epics_psub_pl_pos_mean vs Slug, Sign Corrected



Right In: 1486.308+/-0.000 χ^2/NDF : 336299319445342993885458831157231616.0/25
 Left Out: 1468.048+/-0.000 χ^2/NDF : 127949199501977668488138456039424.0/24
 Right Out: 1450.685+/-0.000 χ^2/NDF : 82353550162967505288878990526532026368.0/30
 Left In: 1467.994+/-0.000 χ^2/NDF : 144497772795444989723550941184.0/22
 All: 1467.667+/-0.000 χ^2/NDF : 83602497905

epics_Phi_FGs_mean vs Slug, Sign Corrected



Right In: 90.069+/-0.000

χ^2/NDF : 165330539196903893509318836748288.0/25

Left: 88.021+/-0.000 χ^2/NDF : 13134723.4/47

Right: 90.060+/-0.000 χ^2/NDF : 3305290700915753

Left Out: 88.021+/-0.000

χ^2/NDF : 5679798.5/24

Right Out: 90.052+/-0.000

χ^2/NDF : 164996002067225251639100472033280.0/30

In: 88.896+/-0.000 χ^2/NDF : 338509890621094890

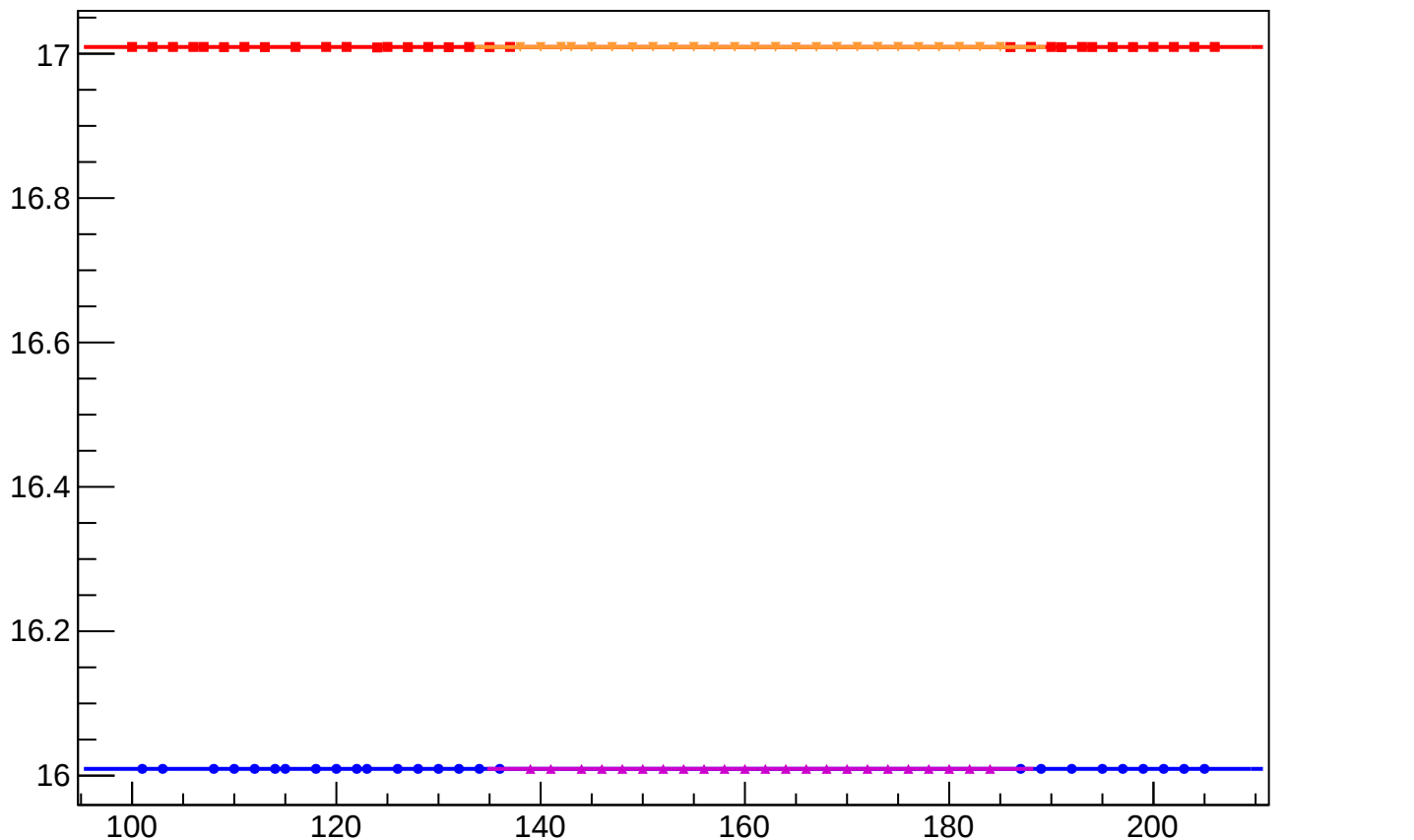
Out: 88.931+/-0.000 χ^2/NDF : 36895879609672090

Left In: 88.021+/-0.000

χ^2/NDF : 6257169.0/22

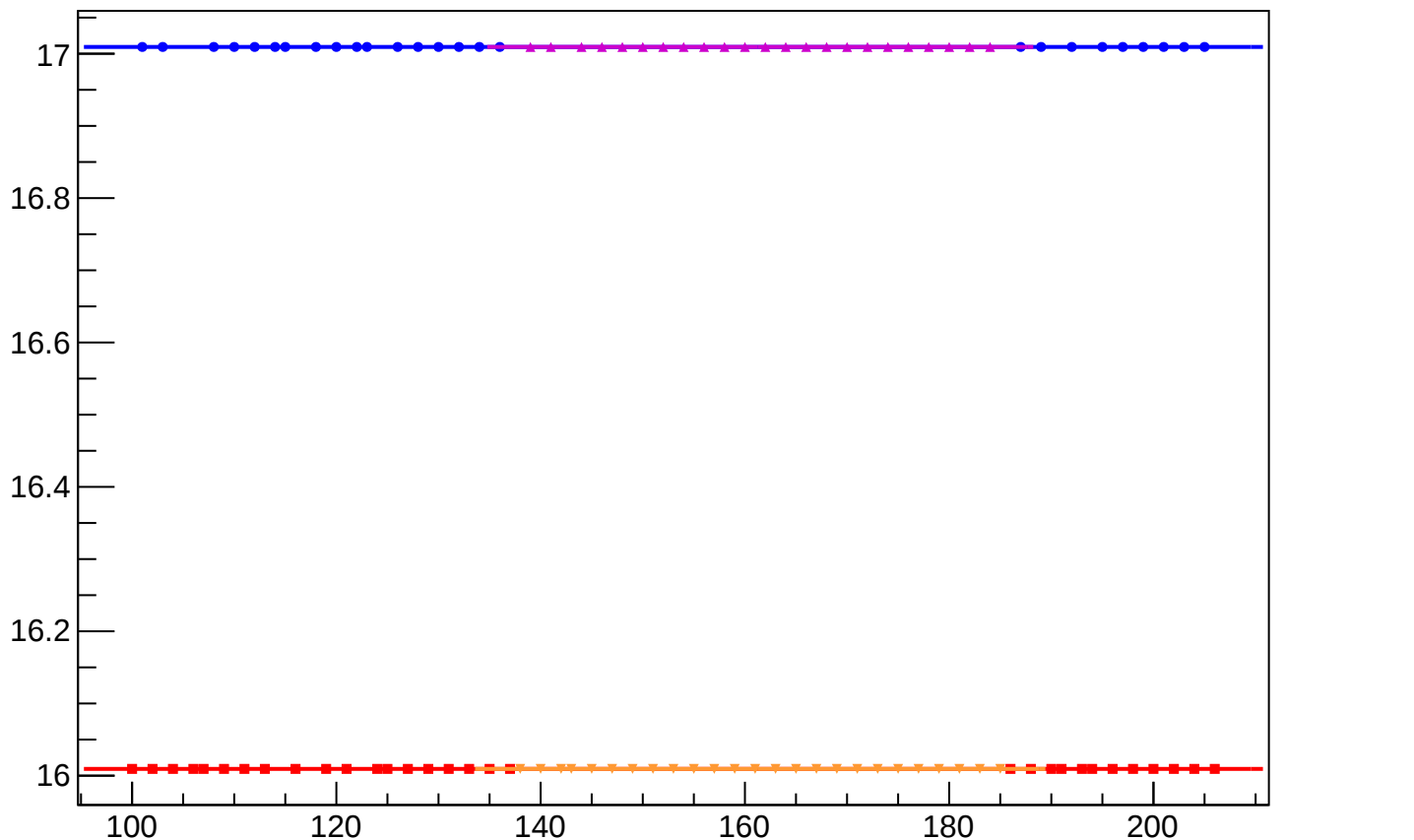
All: 88.915+/-0.000 χ^2/NDF : 7076758793454

epics_IGL1I00DI24_24Ms_mean vs Slug, Sign Corrected



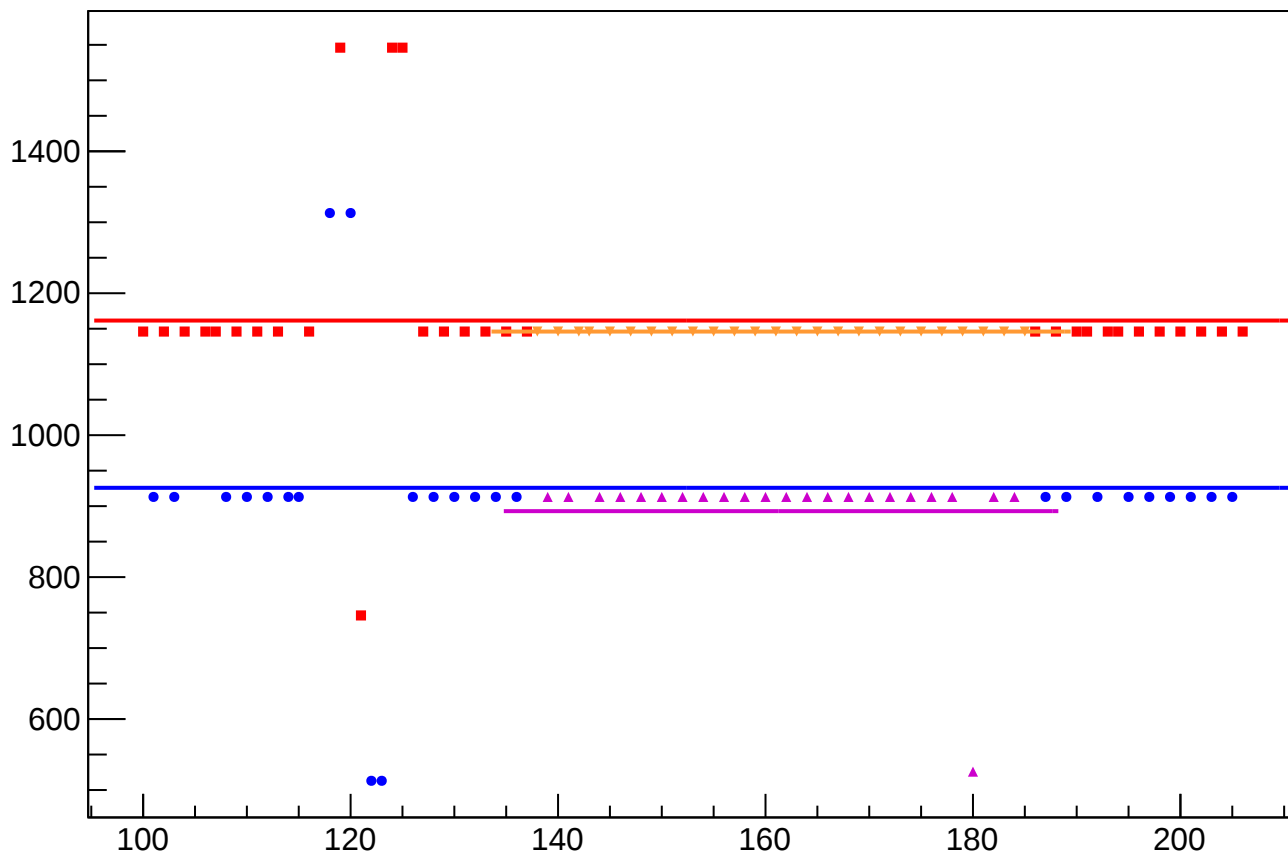
Right In: 16.009+/-0.000	χ^2/NDF : 113097197496727576248320.0/25	Left: 16.524+/-0.000	χ^2/NDF : 85855870772921272
Left Out: 17.009+/-0.000	χ^2/NDF : 26194929080144976634970112.0/24	Right: 16.540+/-0.000	χ^2/NDF : 6944665135296273
Right Out: 17.009+/-0.000	χ^2/NDF : 18638069557053823345754112.0/30	In: 16.009+/-0.000	χ^2/NDF : 241213116513295823
Left In: 16.009+/-0.000	χ^2/NDF : 127920993667935400624128.0/22	Out: 17.009+/-0.000	χ^2/NDF : 45795854524745944
		All: 16.531+/-0.000	χ^2/NDF : 1553429180245

epics_IGL1I00OD16_16s_mean vs Slug, Sign Corrected



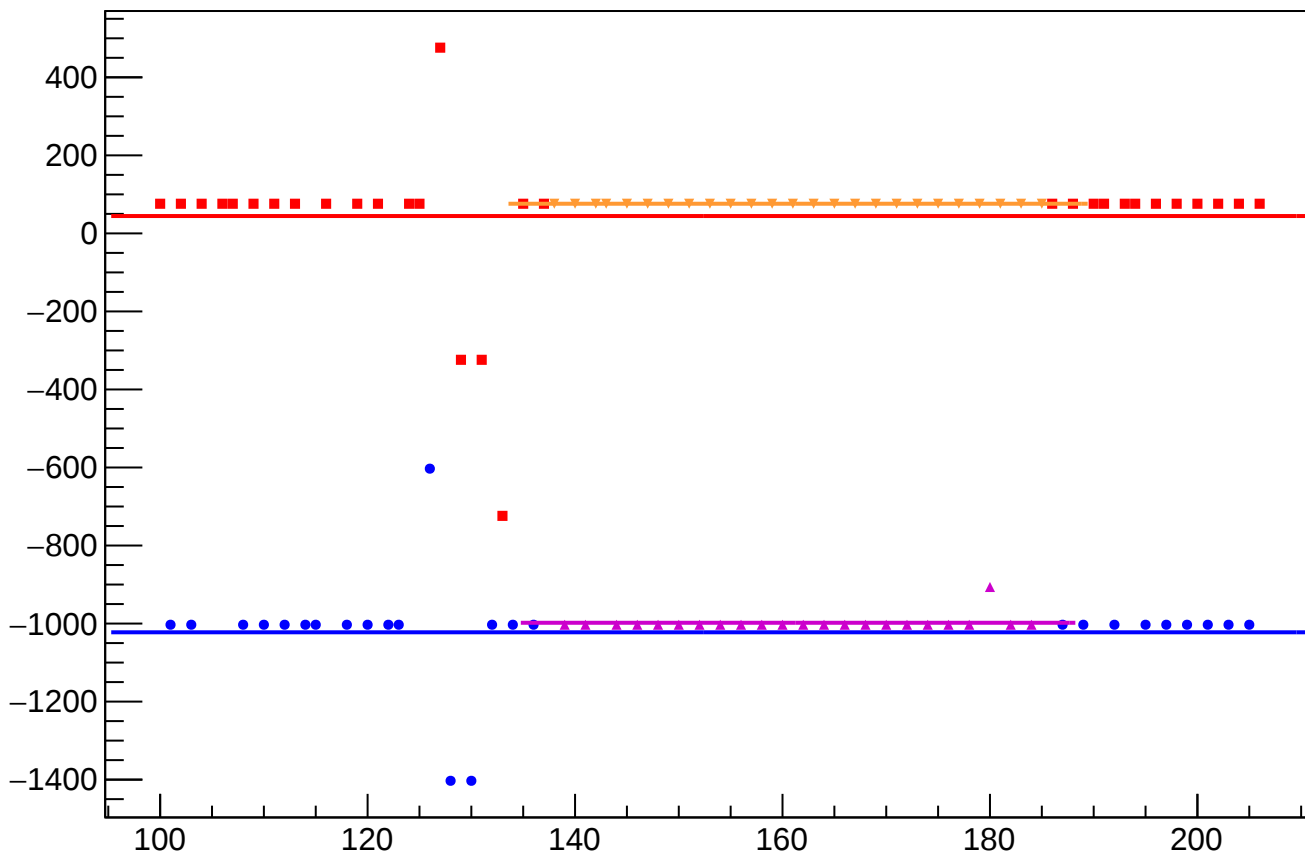
Right In: 17.009+/-0.000 χ^2/NDF : 113097197540881870094336.0/25
 Left Out: 16.009+/-0.000 χ^2/NDF : 61253.5/24
 Right Out: 16.009+/-0.000 χ^2/NDF : 323041.7/30
 Left In: 17.009+/-0.000 χ^2/NDF : 114986101427233622065152.0/22
 All: 16.481+/-0.000 χ^2/NDF : 1615160504015

epics_RTPAPOSUCNTs_mean vs Slug, Sign Corrected



Right In: 925.831+/-0.000 χ^2/NDF : 21060565471287802290978542788741693440.0/25
 Left Out: 1146.011+/-0.000 χ^2/NDF : 8056834670270133849999540224.0/24
 Right Out: 1161.514+/-0.000 χ^2/NDF : 21708635884446722157874273853770825728.0/30
 Left In: 892.950+/-0.000 χ^2/NDF : 13213852485930520518972295012897783808.0/22
 All: 1035.897+/-0.000 χ^2/NDF : 15644059131

epics_RTPAPOSVCNTs_mean vs Slug, Sign Corrected



Right In: -1022.392 ± 0.000 $\chi^2/\text{NDF}: 22695175229449044375762769599774326784.0/25$
 Left Out: 76.011 ± 0.000 $\chi^2/\text{NDF}: 11479003589933272170007363584.0/24$
 Right Out: 44.486 ± 0.000 $\chi^2/\text{NDF}: 45501363450063733880445875935160303616.0/30$
 Left In: -997.979 ± 0.000 $\chi^2/\text{NDF}: 825858066518991041870194619245920256.0/22$
 All: -447.520 ± 0.000 $\chi^2/\text{NDF}: 19529155535$