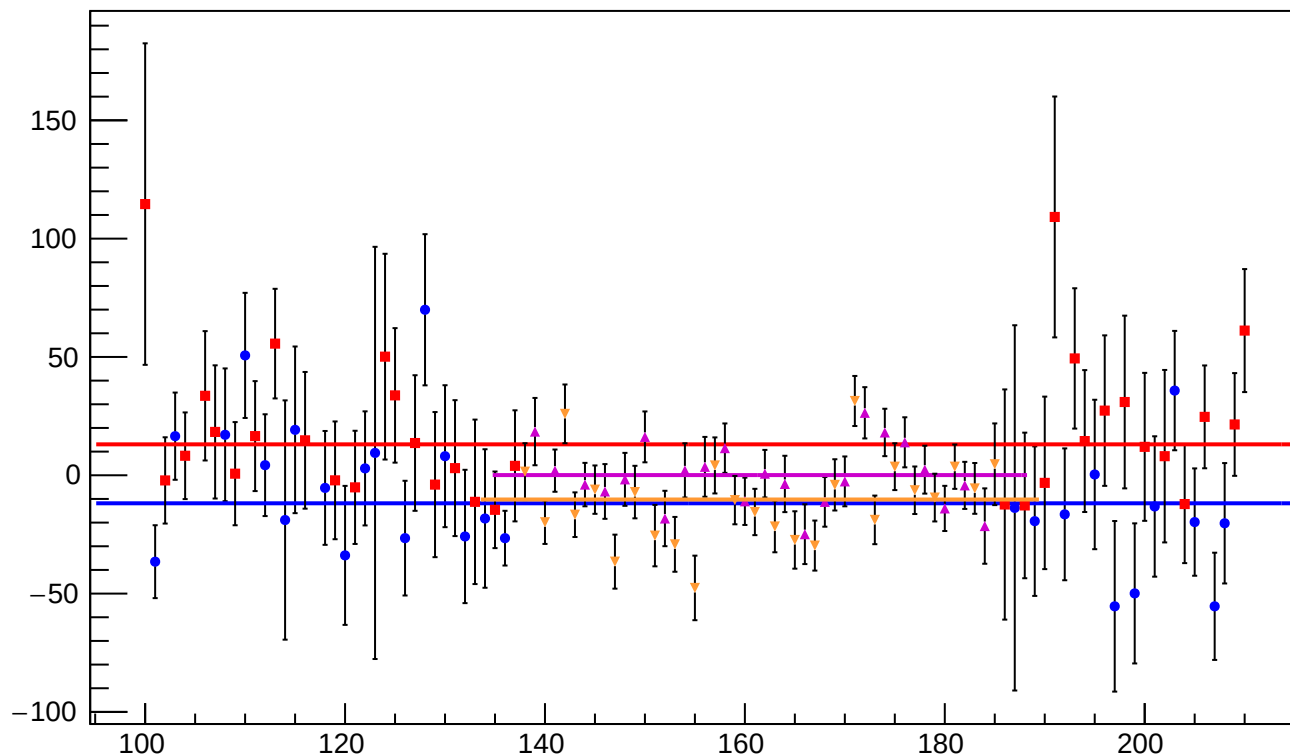


diff_bpm4aX_mean vs Slug, Sign Corrected



Right In: -11.841 ± 4.704

$\chi^2/\text{NDF}: 34.1/27$

Left Out: -10.238 ± 2.170

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

Right Out: 13.071 ± 4.631

$\chi^2/\text{NDF}: 25.1/32$

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: 0.810 ± 3.300

$\chi^2/\text{NDF}: 73.5/60$

In: -2.140 ± 2.030

$\chi^2/\text{NDF}: 69.2/50$

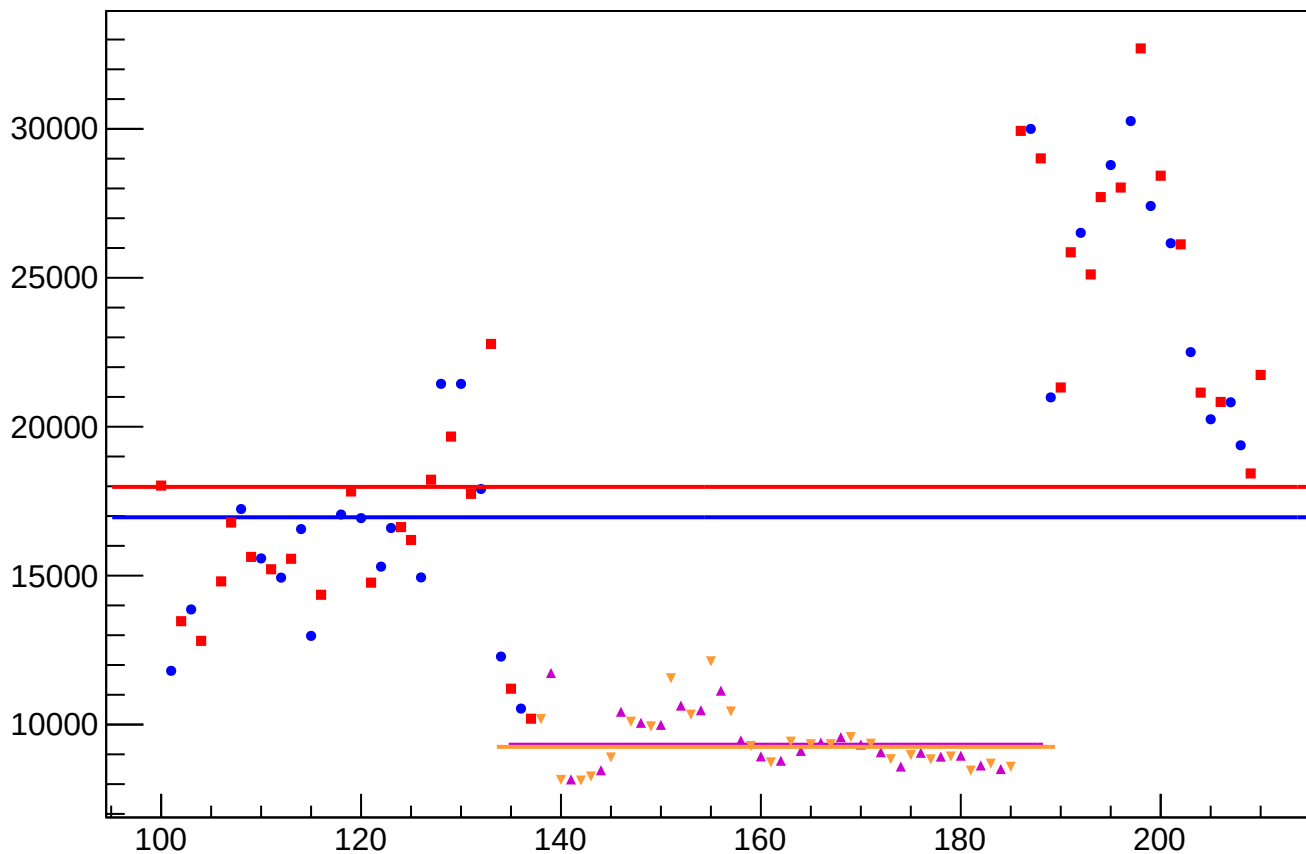
Out: -6.041 ± 1.965

$\chi^2/\text{NDF}: 104.0/57$

All: -4.154 ± 1.412

$\chi^2/\text{NDF}: 175.1/108$

diff_bpm4aX_rms vs Slug, Sign Corrected



Right In: 16959.681+/-3.326 χ^2/NDF : 2641891.5/27

Left Out: 9251.811+/-1.535 χ^2/NDF : 332323.3/24

Right Out: 17979.706+/-3.275 χ^2/NDF : 2804864.6/32

Left In: 9323.983+/-1.591 χ^2/NDF : 275717.0/22

Left: 9286.587+/-1.105 χ^2/NDF : 609106.1/47

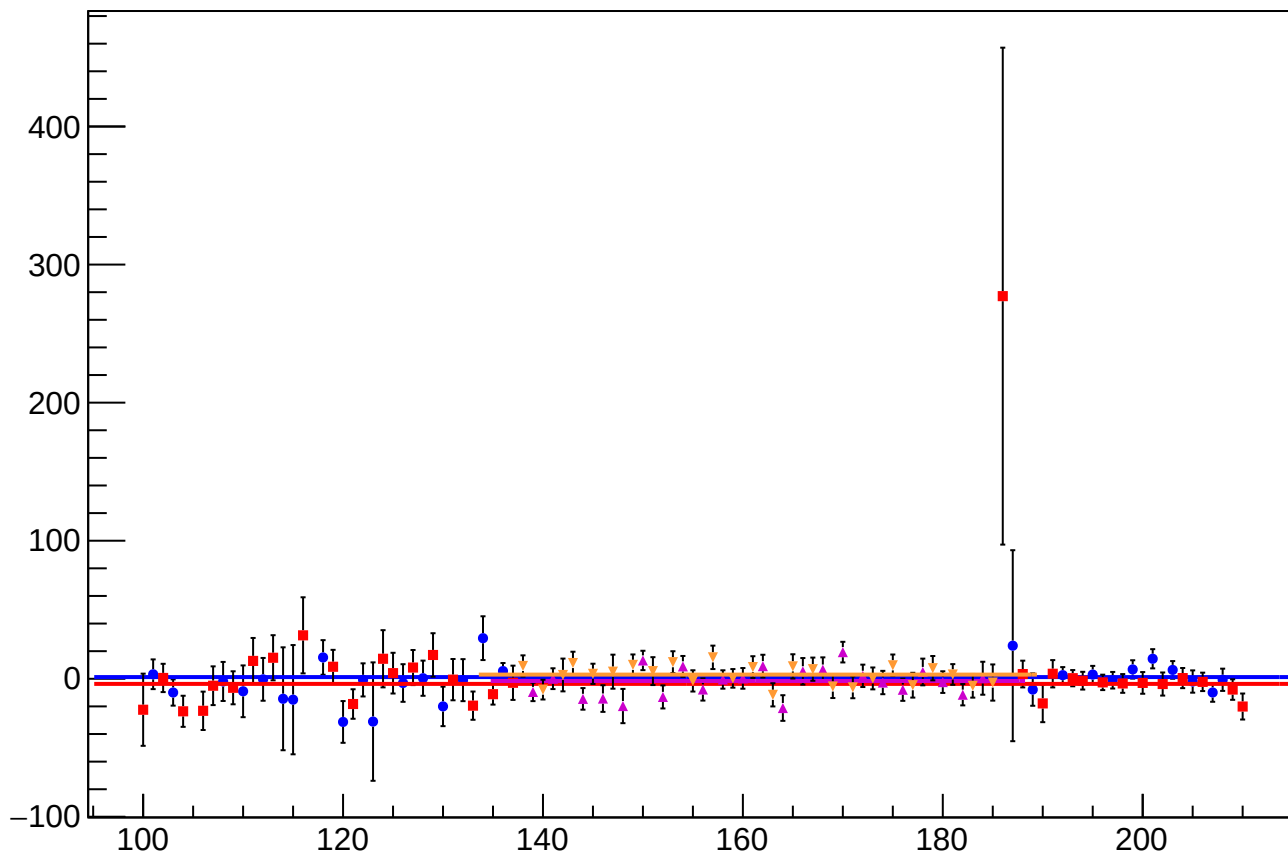
Right: 17477.691+/-2.334 χ^2/NDF : 5494507.2/60

In: 10746.059+/-1.436 χ^2/NDF : 7205342.2/50

Out: 10823.369+/-1.390 χ^2/NDF : 8961652.8/57

All: 10785.972+/-0.998 χ^2/NDF : 16168492.3

diff_bpm4aY_mean vs Slug, Sign Corrected



Right In: 1.233 ± 1.778 $\chi^2/\text{NDF}: 23.6/27$

Left Out: 3.027 ± 1.661 $\chi^2/\text{NDF}: 18.6/24$

Right Out: -3.701 ± 1.690 $\chi^2/\text{NDF}: 28.8/32$

Left In: -1.588 ± 1.703 $\chi^2/\text{NDF}: 35.5/22$

Left: 0.777 ± 1.189 $\chi^2/\text{NDF}: 57.8/47$

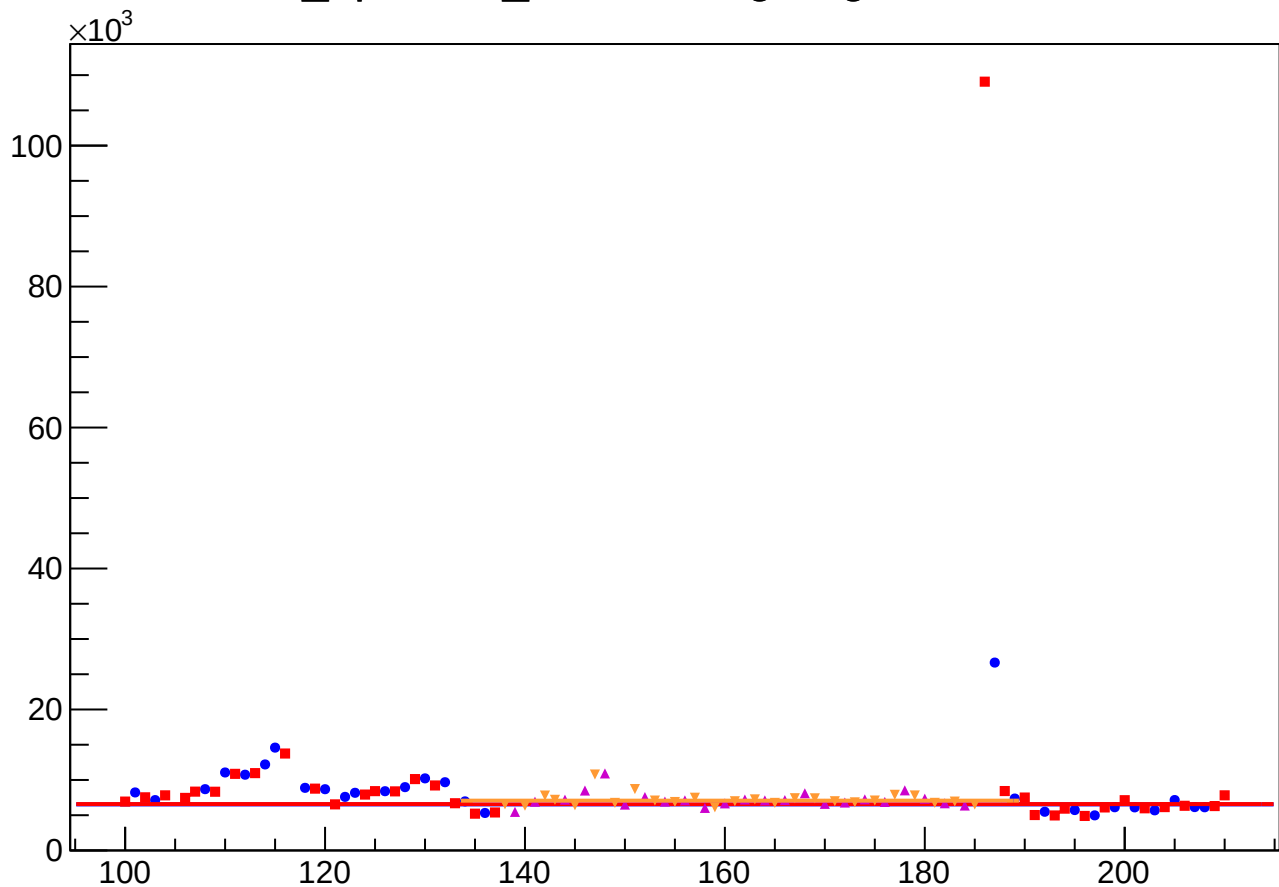
Right: -1.359 ± 1.225 $\chi^2/\text{NDF}: 56.5/60$

In: -0.239 ± 1.230 $\chi^2/\text{NDF}: 60.5/50$

Out: -0.278 ± 1.184 $\chi^2/\text{NDF}: 55.4/57$

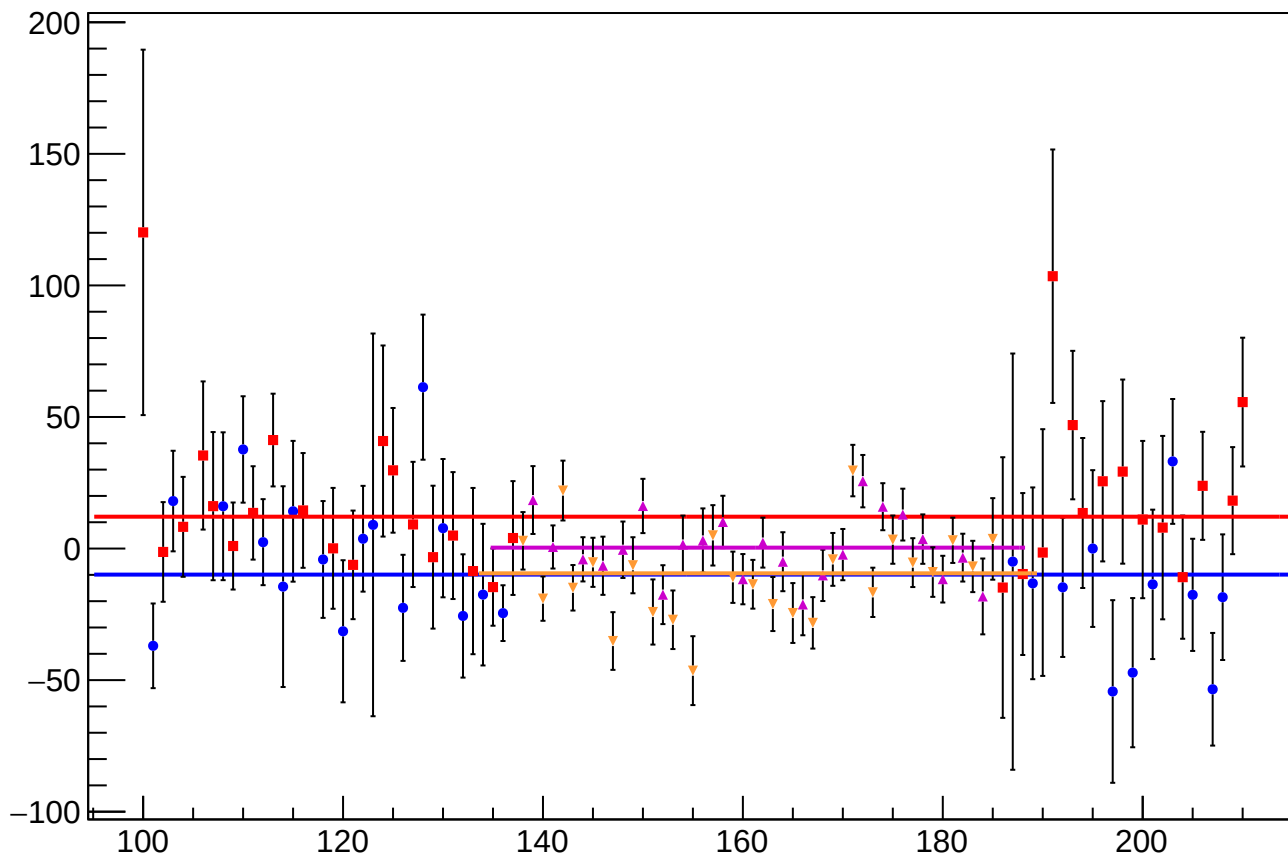
All: -0.259 ± 0.853 $\chi^2/\text{NDF}: 115.9/108$

diff_bpm4aY_rms vs Slug, Sign Corrected



Right In: 6532.727 $\pm$ 1.257	χ^2/NDF : 1530801.8/27	Left: 7040.137 $\pm$ 0.841	χ^2/NDF : 913008.5/47
Left Out: 7064.457 $\pm$ 1.174	χ^2/NDF : 386814.9/24	Right: 6557.514 $\pm$ 0.866	χ^2/NDF : 3671800.5/60
Right Out: 6579.908 $\pm$ 1.195	χ^2/NDF : 2140258.8/32	In: 6784.086 $\pm$ 0.870	χ^2/NDF : 2132739.5/50
Left In: 7014.572 $\pm$ 1.204	χ^2/NDF : 525313.7/22	Out: 6826.439 $\pm$ 0.838	χ^2/NDF : 2610722.2/57
		All: 6806.056 $\pm$ 0.603	χ^2/NDF : 4744692.4/10

diff_bpm4eX_mean vs Slug, Sign Corrected



Right In: -9.900 $\pm$ 4.294 χ^2/NDF : 35.2/27

Left Out: -9.411 $\pm$ 2.021 χ^2/NDF : 58.8/24

Right Out: 12.108 $\pm$ 4.195 χ^2/NDF : 24.4/32

Left In: 0.344 $\pm$ 2.100 χ^2/NDF : 29.9/22

Left: -4.722 $\pm$ 1.456 χ^2/NDF : 99.9/47

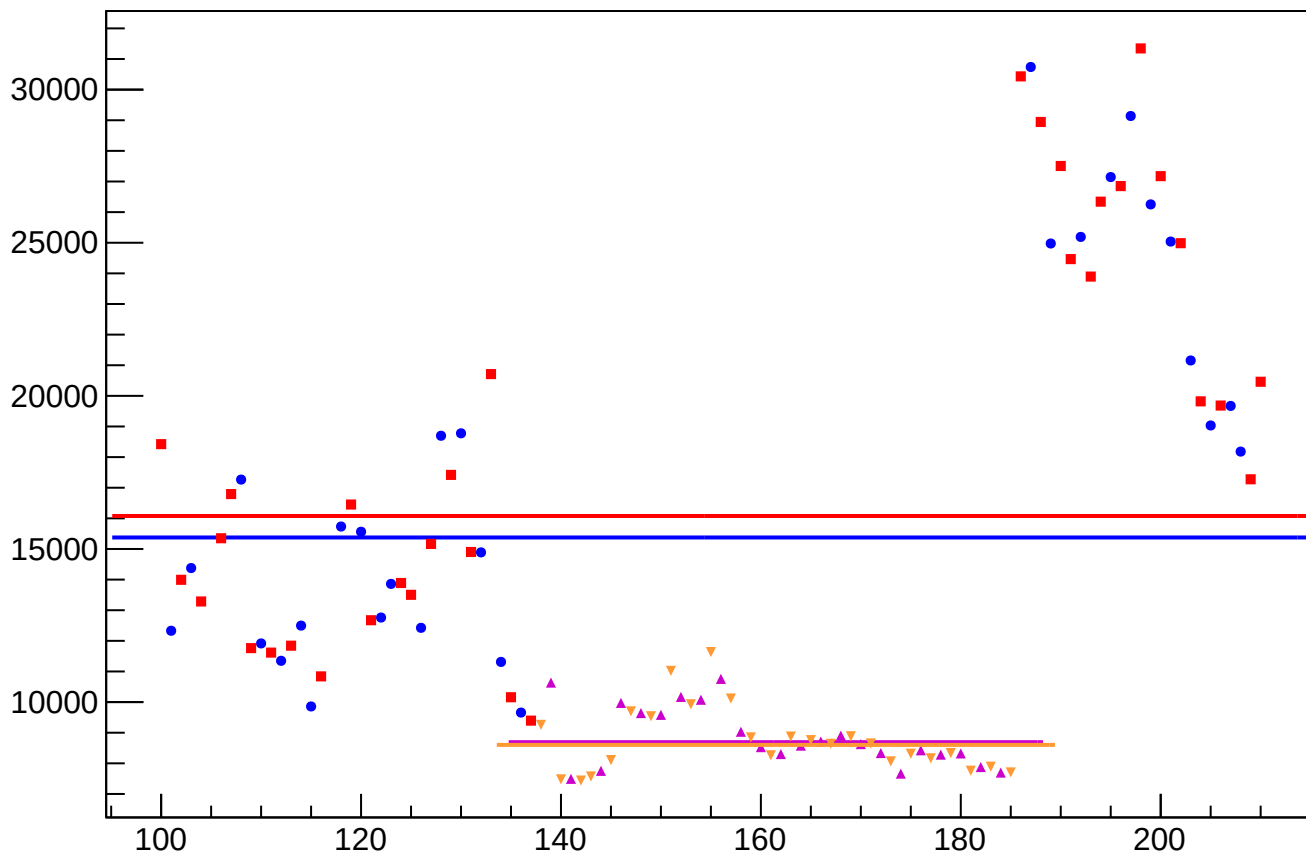
Right: 1.359 $\pm$ 3.001 χ^2/NDF : 73.1/60

In: -1.634 $\pm$ 1.887 χ^2/NDF : 69.7/50

Out: -5.358 $\pm$ 1.821 χ^2/NDF : 104.6/57

All: -3.562 $\pm$ 1.310 χ^2/NDF : 176.3/108

diff_bpm4eX_rms vs Slug, Sign Corrected



Right In: 15375.542 $\pm$ 3.036 χ^2 /NDF: 3060522.4/27

Left Out: 8602.220 $\pm$ 1.429 χ^2 /NDF:438805.2/24

Right Out: 16077.399 $\pm$ 2.966 χ^2 /NDF: 3555622.0/32

Left In: 8691.203 $\pm$ 1.485 χ^2 /NDF:365254.6/22

Left: 8644.996 $\pm$ 1.030 χ^2 /NDF: 805923.5/47

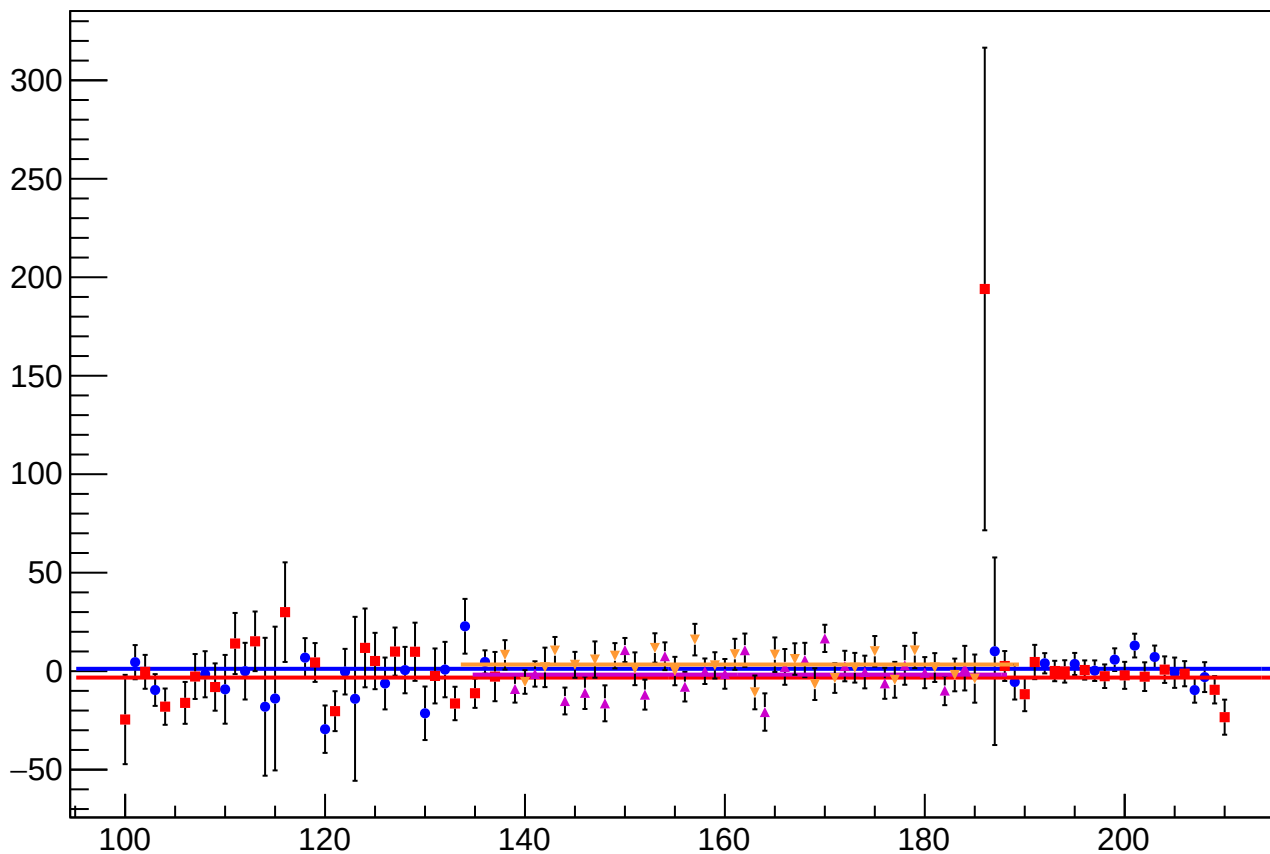
Right: 15734.605 $\pm$ 2.122 χ^2 /NDF: 6643485.2/60

In: 9982.054 $\pm$ 1.334 χ^2 /NDF:7337076.7/50

Out: 10010.257 $\pm$ 1.287 χ^2 /NDF:9148321.4/57

All: 9996.658 $\pm$ 0.926 χ^2 /NDF: 16485629.5/107

diff_bpm4eY_mean vs Slug, Sign Corrected



Right In: 1.197 $\pm$ 1.594 χ^2/NDF : 25.5/27

Left Out: 3.374 $\pm$ 1.552 χ^2/NDF : 17.2/24

Right Out: -3.254 $\pm$ 1.499 χ^2/NDF : 32.2/32

Left In: -1.756 $\pm$ 1.607 χ^2/NDF : 33.5/22

Left: 0.899 $\pm$ 1.116 χ^2/NDF : 56.0/47

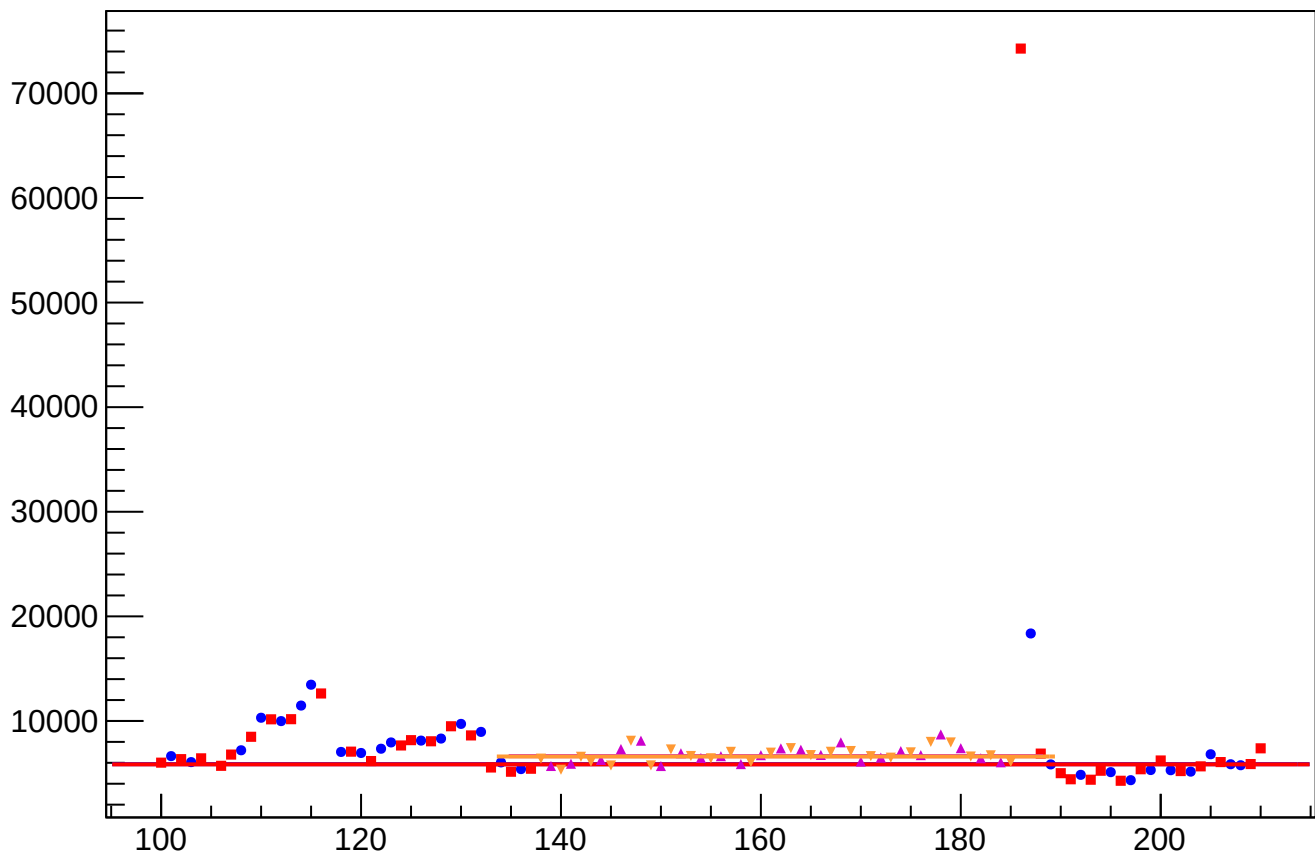
Right: -1.166 $\pm$ 1.092 χ^2/NDF : 61.9/60

In: -0.268 $\pm$ 1.132 χ^2/NDF : 60.7/50

Out: -0.055 $\pm$ 1.078 χ^2/NDF : 58.8/57

All: -0.156 $\pm$ 0.781 χ^2/NDF : 119.6/108

diff_bpm4eY_rms vs Slug, Sign Corrected



Right In: 5870.070+/-1.127

χ^2/NDF : 1492674.8/27

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

Left Out: 6603.953+/-1.097

χ^2/NDF : 395247.5/24

Right: 5860.092+/-0.772 χ^2/NDF : 3687150.7/60

Right Out: 5851.273+/-1.060

χ^2/NDF : 2194328.4/32

In: 6250.567+/-0.800 χ^2/NDF : 2137885.2/50

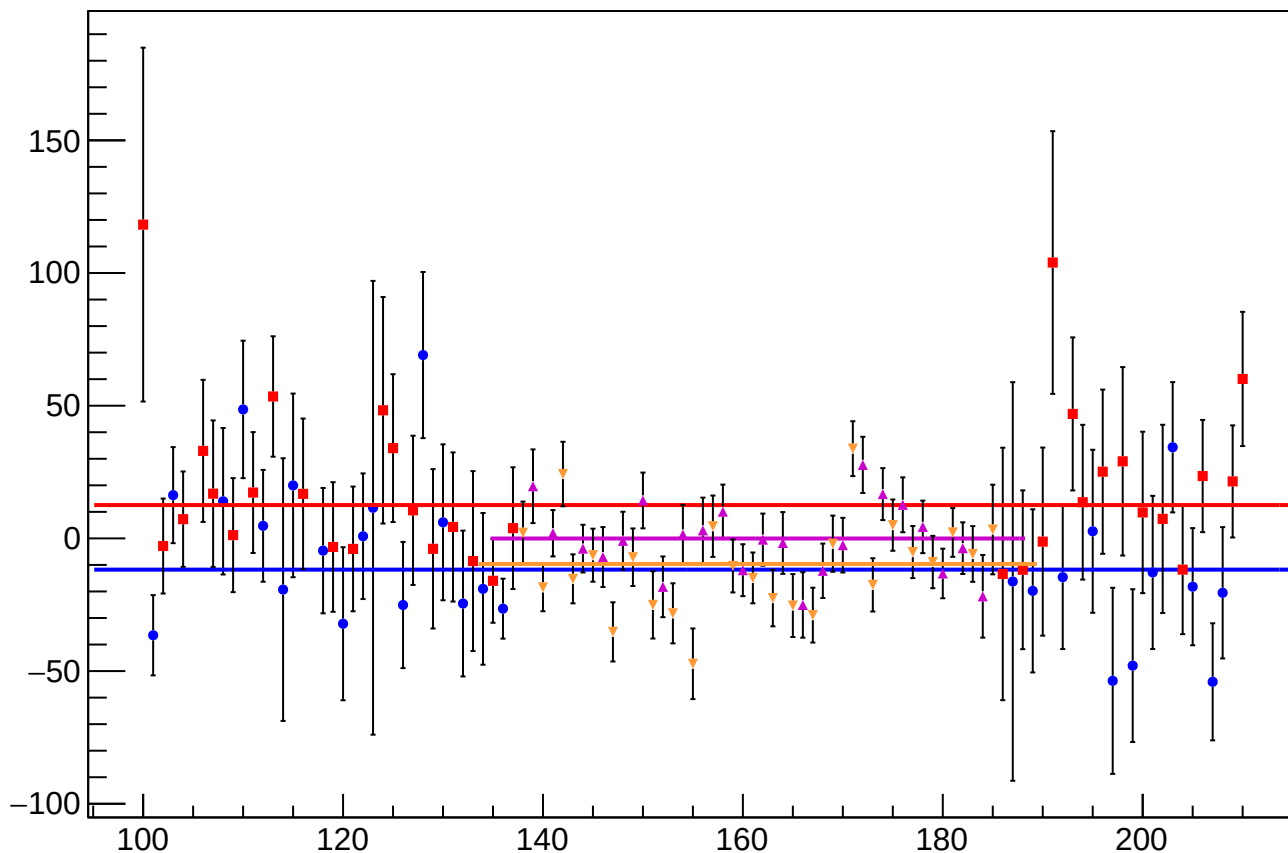
Out: 6214.515+/-0.762 χ^2/NDF : 2833024.0/57

Left In: 6637.155+/-1.136

χ^2/NDF : 415547.5/22

All: 6231.664+/-0.552 χ^2/NDF : 4971973.2/100

diff_bpm4acX_mean vs Slug, Sign Corrected



Right In: -11.769 $\pm$ 4.601 χ^2/NDF : 33.9/27

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

Right Out: 12.558 $\pm$ 4.529 χ^2/NDF : 25.3/32

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

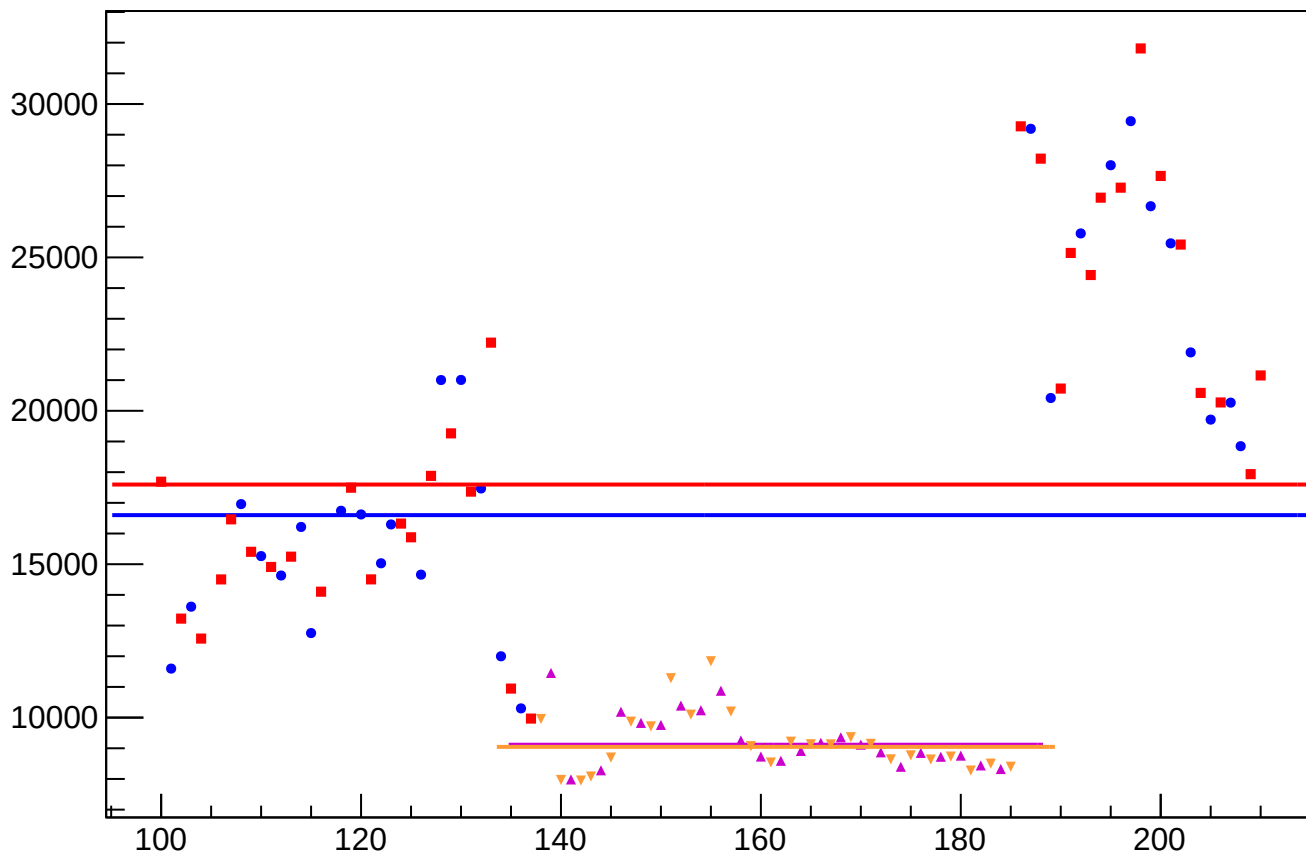
Right: 0.586 $\pm$ 3.228 χ^2/NDF : 73.3/60

In: -2.225 $\pm$ 1.985 χ^2/NDF : 69.9/50

Out: -5.645 $\pm$ 1.921 χ^2/NDF : 104.9/57

All: -3.990 $\pm$ 1.381 χ^2/NDF : 176.3/108

diff_bpm4acX_rms vs Slug, Sign Corrected



Right In: 16599.616 $\pm$ 3.253 χ^2 /NDF: 2601595.0/27

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

Right Out: 17596.751 $\pm$ 3.202 χ^2 /NDF: 2755669.6/32

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

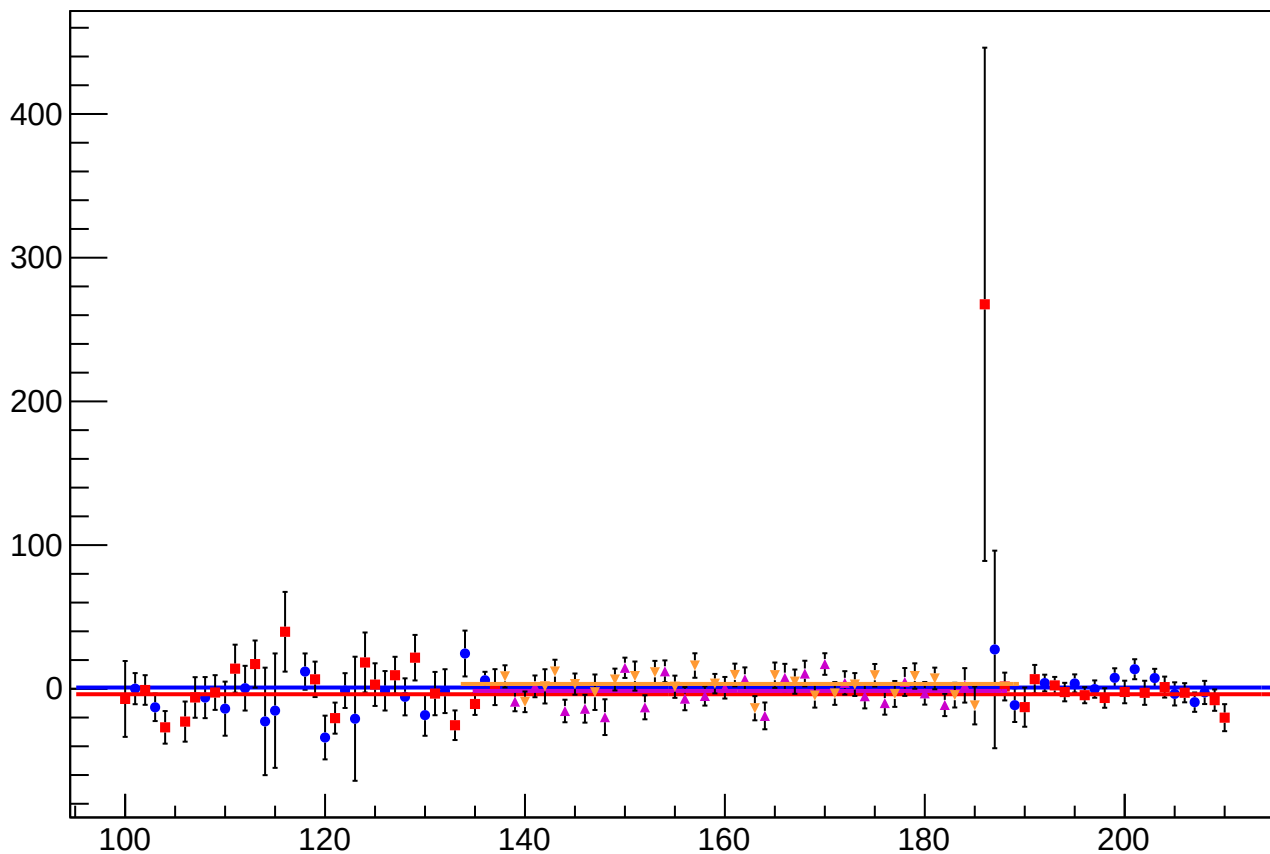
Right: 17106.058 $\pm$ 2.282 χ^2 /NDF: 5404977.0/60

In: 10508.668 $\pm$ 1.404 χ^2 /NDF: 7180871.7/50

Out: 10584.920 $\pm$ 1.359 χ^2 /NDF: 8930860.6/57

All: 10548.034 $\pm$ 0.976 χ^2 /NDF: 16113256.2

diff_bpm4acY_mean vs Slug, Sign Corrected



Right In: 0.882 ± 1.784 $\chi^2/\text{NDF}: 24.8/27$

Left Out: 3.387 ± 1.668 $\chi^2/\text{NDF}: 19.4/24$

Right Out: -3.780 ± 1.696 $\chi^2/\text{NDF}: 34.0/32$

Left In: -1.479 ± 1.710 $\chi^2/\text{NDF}: 36.7/22$

Left: 1.015 ± 1.194 $\chi^2/\text{NDF}: 60.3/47$

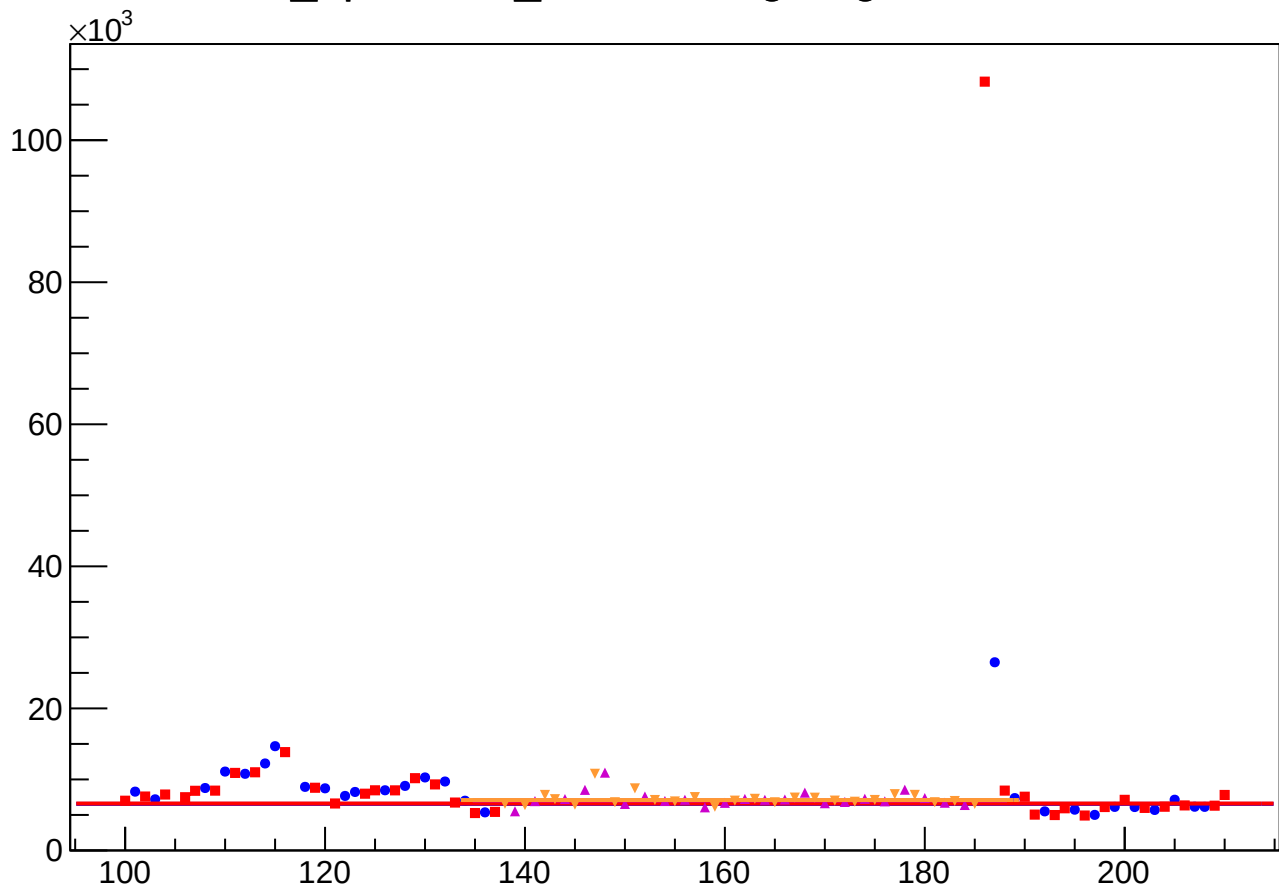
Right: -1.566 ± 1.229 $\chi^2/\text{NDF}: 62.4/60$

In: -0.348 ± 1.235 $\chi^2/\text{NDF}: 62.5/50$

Out: -0.136 ± 1.189 $\chi^2/\text{NDF}: 62.5/57$

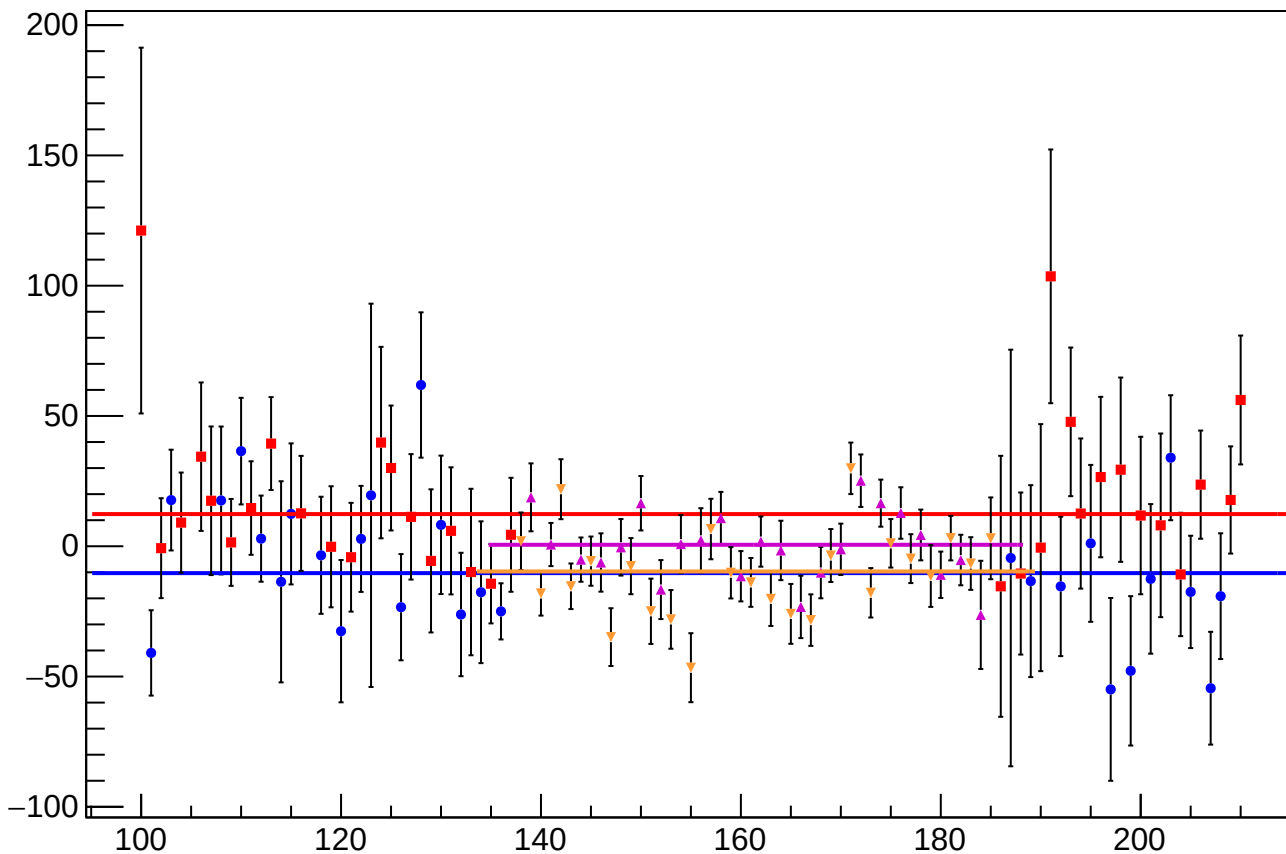
All: -0.238 ± 0.857 $\chi^2/\text{NDF}: 125.0/108$

diff_bpm4acY_rms vs Slug, Sign Corrected



Right In: 6554.873+/-1.262	χ^2/NDF : 1540259.1/27	Left: 7072.425+/-0.844	χ^2/NDF : 900219.9/47
Left Out: 7096.350+/-1.179	χ^2/NDF : 381942.1/24	Right: 6581.217+/-0.869	χ^2/NDF : 3685322.6/60
Right Out: 6605.030+/-1.199	χ^2/NDF : 2144233.3/32	In: 6811.475+/-0.873	χ^2/NDF : 2137083.5/50
Left In: 7047.269+/-1.209	χ^2/NDF : 517433.5/22	Out: 6854.837+/-0.841	χ^2/NDF : 2611490.9/57
		All: 6833.967+/-0.606	χ^2/NDF : 4749854.0/10

diff_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -10.312 $\pm$ 4.348 χ^2/NDF : 35.8/27

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

Right Out: 12.348 $\pm$ 4.251 χ^2/NDF : 23.4/32

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

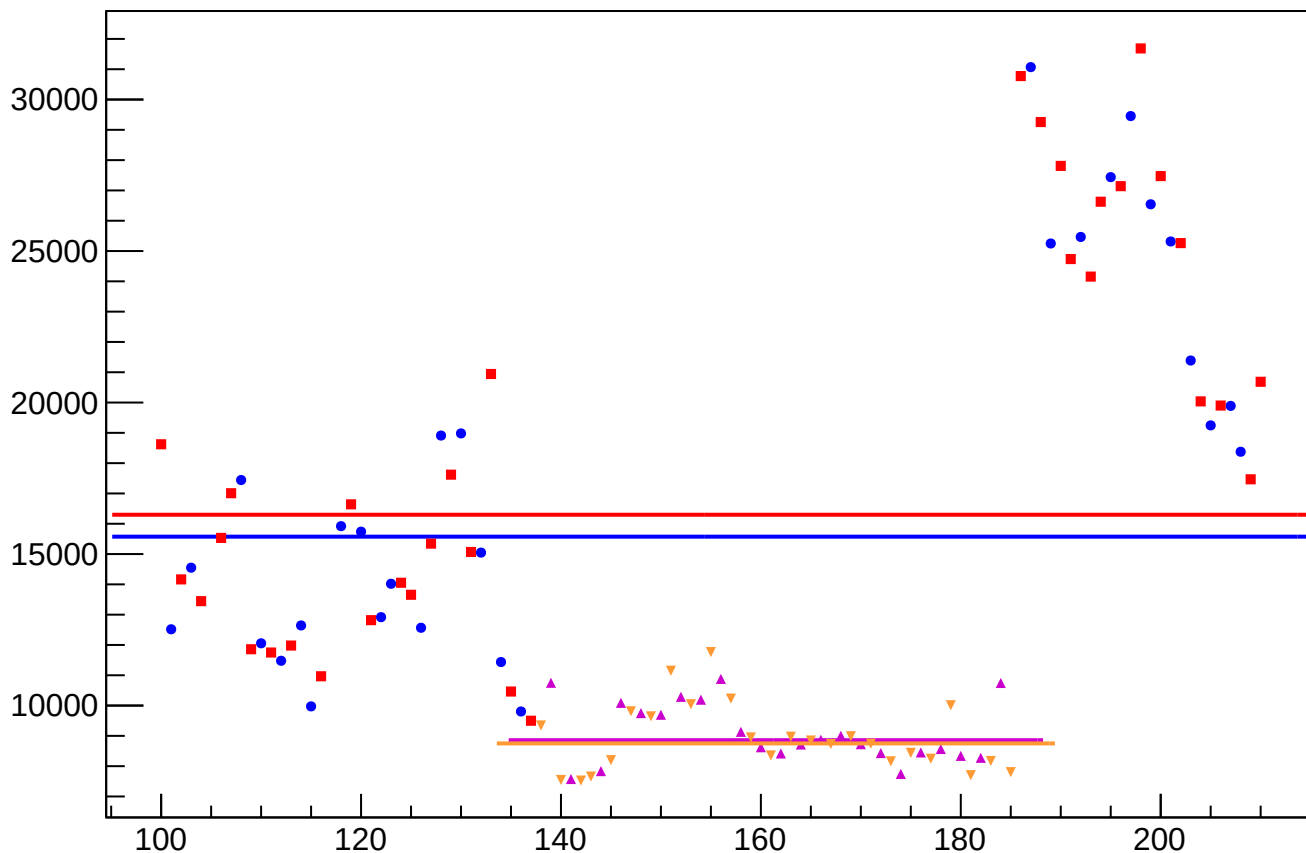
Right: 1.275 $\pm$ 3.040 χ^2/NDF : 73.1/60

In: -1.563 $\pm$ 1.923 χ^2/NDF : 70.6/50

Out: -5.481 $\pm$ 1.854 χ^2/NDF : 103.0/57

All: -3.593 $\pm$ 1.335 χ^2/NDF : 175.8/108

diff_bpm4ecX_rms vs Slug, Sign Corrected



Right In: 15574.069 $\pm$ 3.075 χ^2/NDF : 3039521.2/27

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

Right Out: 16297.168 $\pm$ 3.006 χ^2/NDF : 3518769.4/32

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

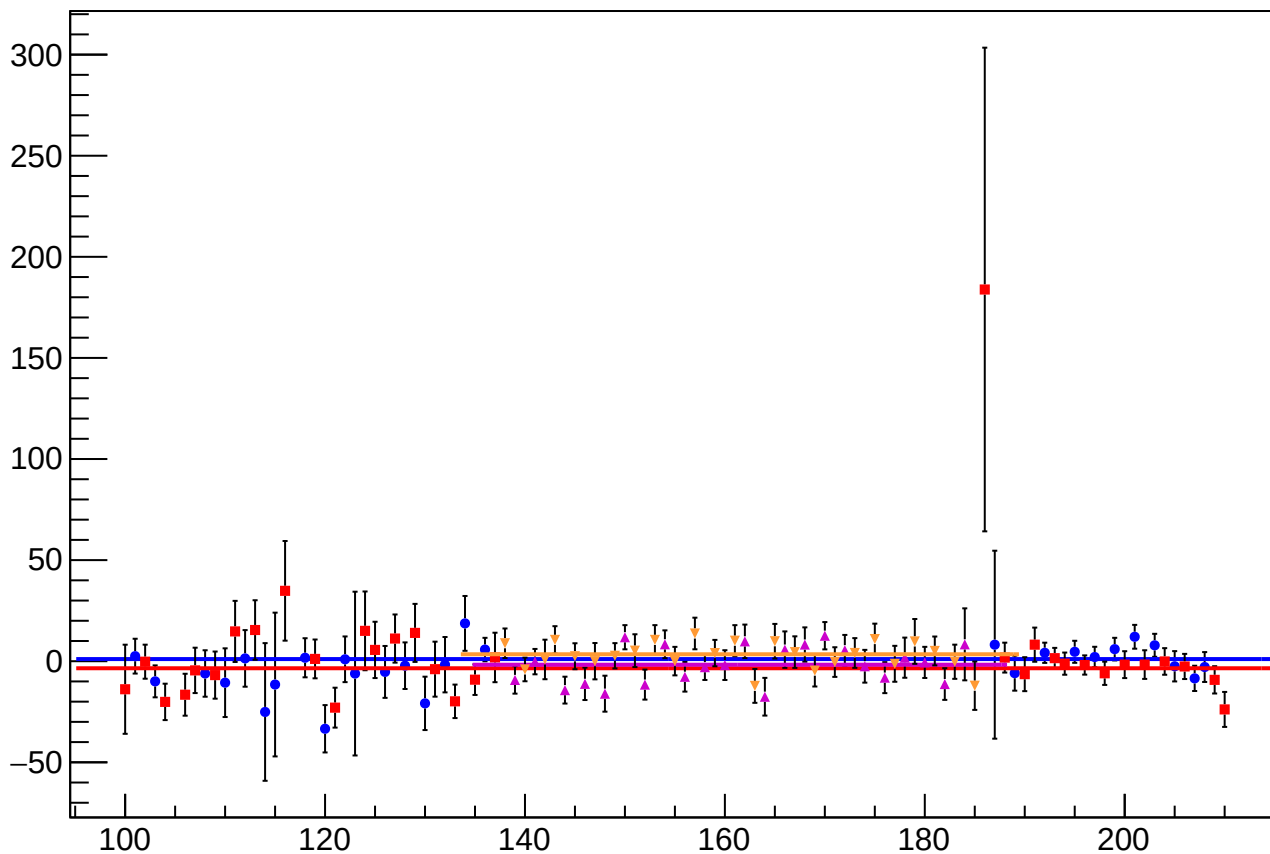
Right: 15943.819 $\pm$ 2.149 χ^2/NDF : 6586571.4/60

In: 10170.573 $\pm$ 1.360 χ^2/NDF : 7240302.7/50

Out: 10186.418 $\pm$ 1.311 χ^2/NDF : 9087039.6/57

All: 10178.783 $\pm$ 0.944 χ^2/NDF : 16327412.7

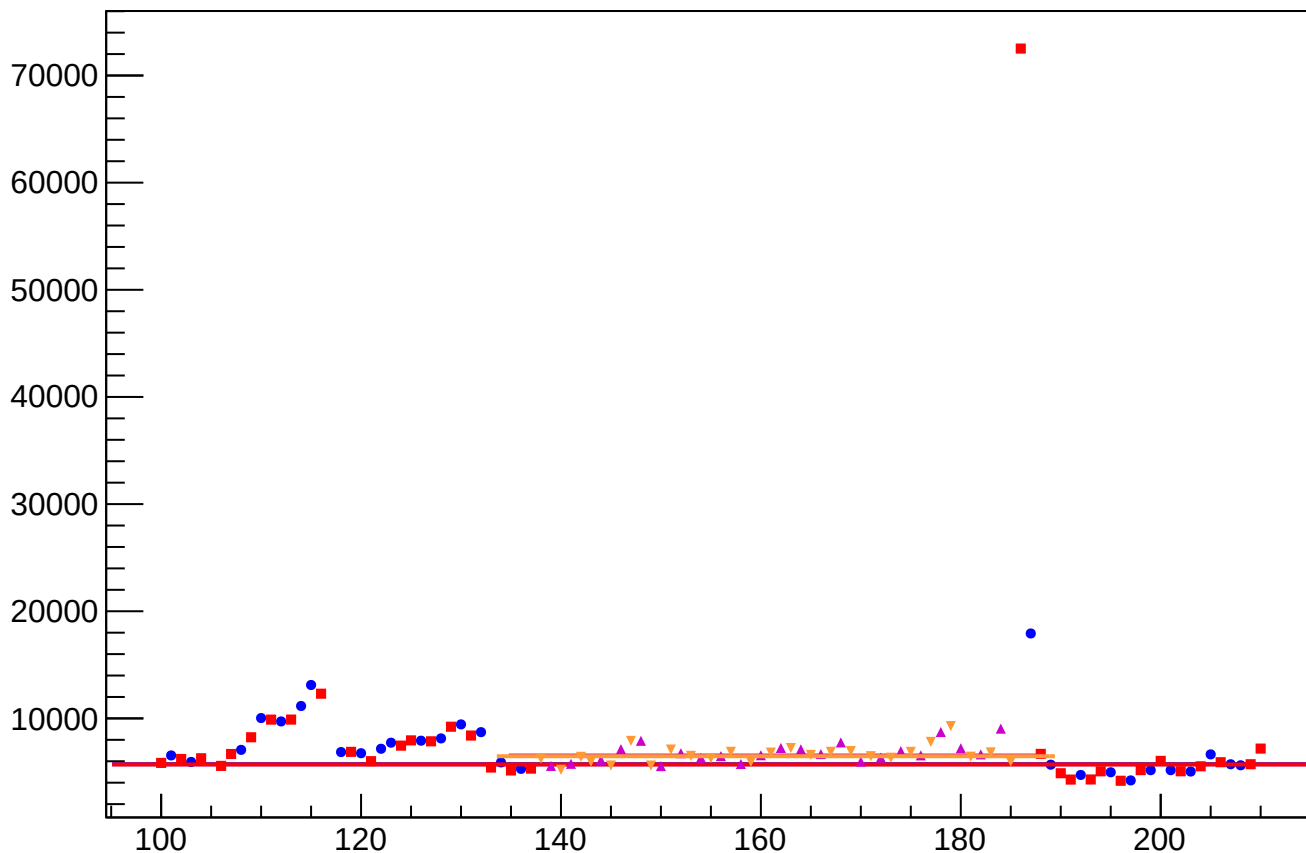
diff_bpm4ecY_mean vs Slug, Sign Corrected



Right In: 1.060 ± 1.555 $\chi^2/\text{NDF}: 27.8/27$
Left Out: 3.433 ± 1.526 $\chi^2/\text{NDF}: 16.2/24$
Right Out: -3.485 ± 1.461 $\chi^2/\text{NDF}: 37.2/32$
Left In: -1.734 ± 1.586 $\chi^2/\text{NDF}: 33.6/22$

Left: 0.949 ± 1.099 $\chi^2/\text{NDF}: 55.3/47$
Right: -1.354 ± 1.065 $\chi^2/\text{NDF}: 69.6/60$
In: -0.310 ± 1.110 $\chi^2/\text{NDF}: 63.0/50$
Out: -0.176 ± 1.055 $\chi^2/\text{NDF}: 64.2/57$
All: -0.240 ± 0.765 $\chi^2/\text{NDF}: 127.2/108$

diff_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 5723.193+/-1.100

χ^2/NDF : 1498841.1/27

Left Out: 6468.872+/-1.079

χ^2/NDF : 487187.3/24

Right Out: 5701.825+/-1.033

χ^2/NDF : 2184060.5/32

Left In: 6530.954+/-1.121

χ^2/NDF : 464668.6/22

Left: 6498.713+/-0.777 χ^2/NDF : 953447.7/47

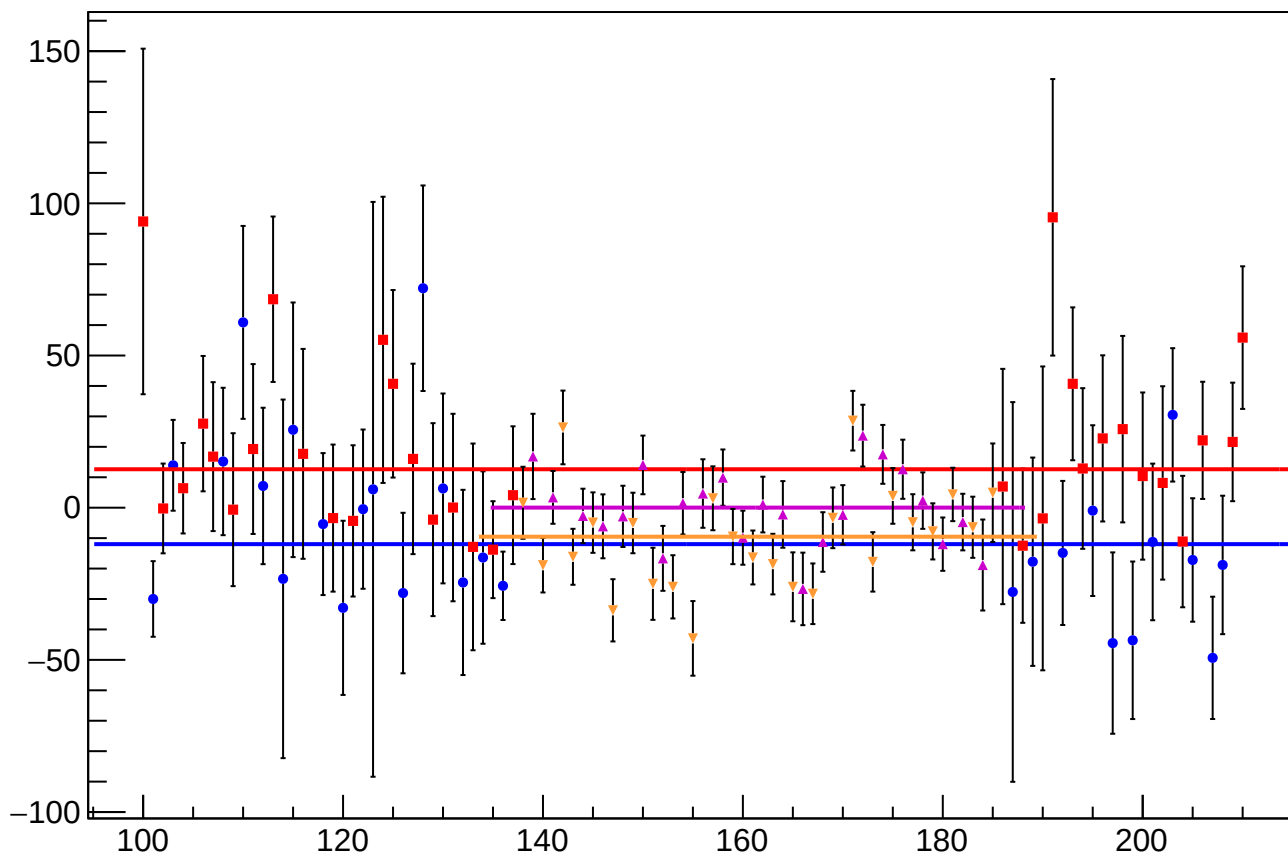
Right: 5711.842+/-0.753 χ^2/NDF : 3683102.2/60

In: 6119.188+/-0.785 χ^2/NDF : 2228023.5/50

Out: 6068.730+/-0.746 χ^2/NDF : 2934975.8/57

All: 6092.674+/-0.541 χ^2/NDF : 5165169.6/100

diff_bpm1X_mean vs Slug, Sign Corrected



Right In: -11.975 $\pm$ 4.407 χ^2/NDF : 32.8/27

Left Out: -9.528 $\pm$ 2.015 χ^2/NDF : 59.6/24

Right Out: 12.631 $\pm$ 4.343 χ^2/NDF : 25.6/32

Left In: 0.027 $\pm$ 2.080 χ^2/NDF : 29.9/22

Left: -4.902 $\pm$ 1.447 χ^2/NDF : 100.3/47

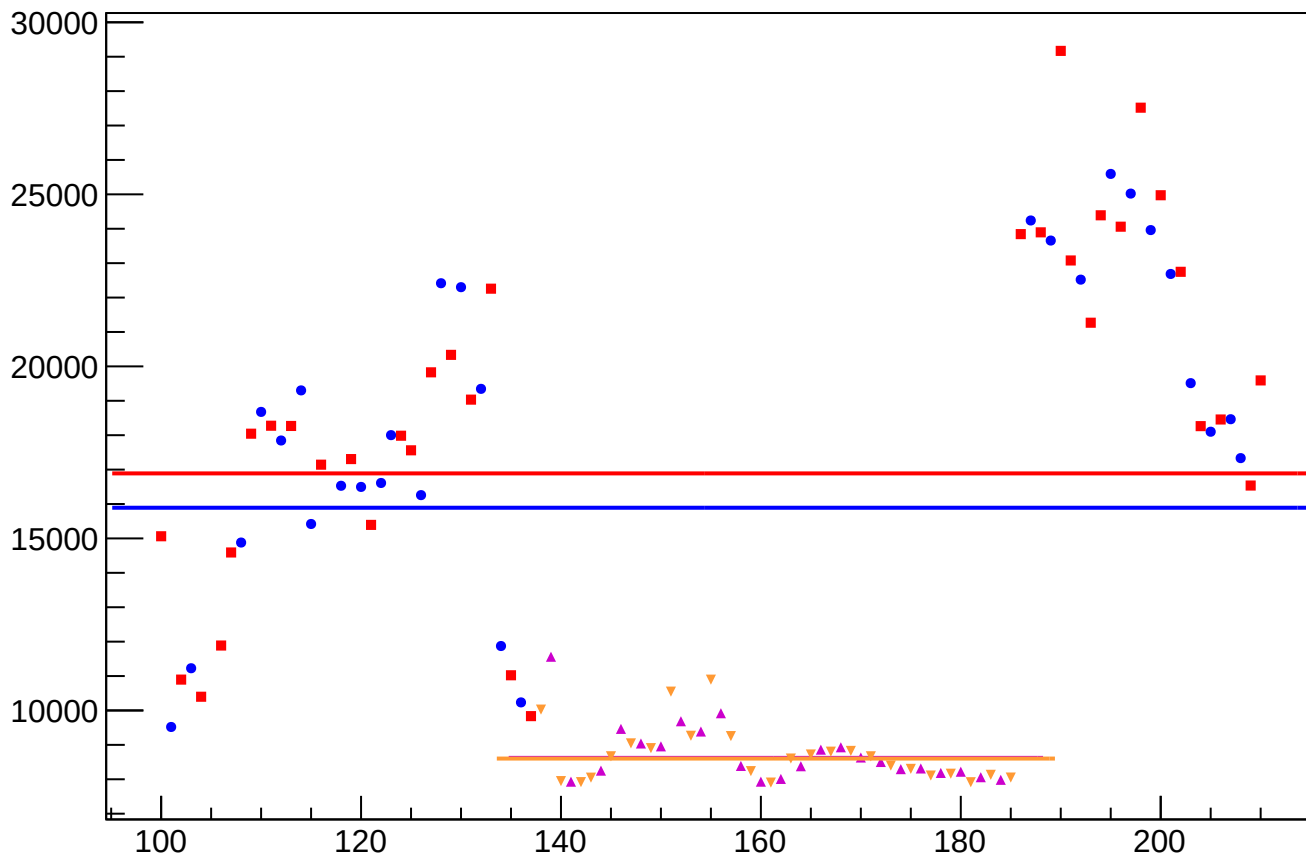
Right: 0.507 $\pm$ 3.093 χ^2/NDF : 74.3/60

In: -2.160 $\pm$ 1.881 χ^2/NDF : 68.8/50

Out: -5.602 $\pm$ 1.828 χ^2/NDF : 106.6/57

All: -3.930 $\pm$ 1.311 χ^2/NDF : 177.1/108

diff_bpm1X_rms vs Slug, Sign Corrected



Right In: 15891.788 $\pm$ 3.116 χ^2 /NDF: 2672987.0/27

Left Out: 8601.926 $\pm$ 1.425 χ^2 /NDF: 248903.5/24

Right Out: 16889.779 $\pm$ 3.071 χ^2 /NDF: 2690463.9/32

Left In: 8621.975 $\pm$ 1.471 χ^2 /NDF: 230824.4/22

Left: 8611.634 $\pm$ 1.023 χ^2 /NDF: 479823.8/47

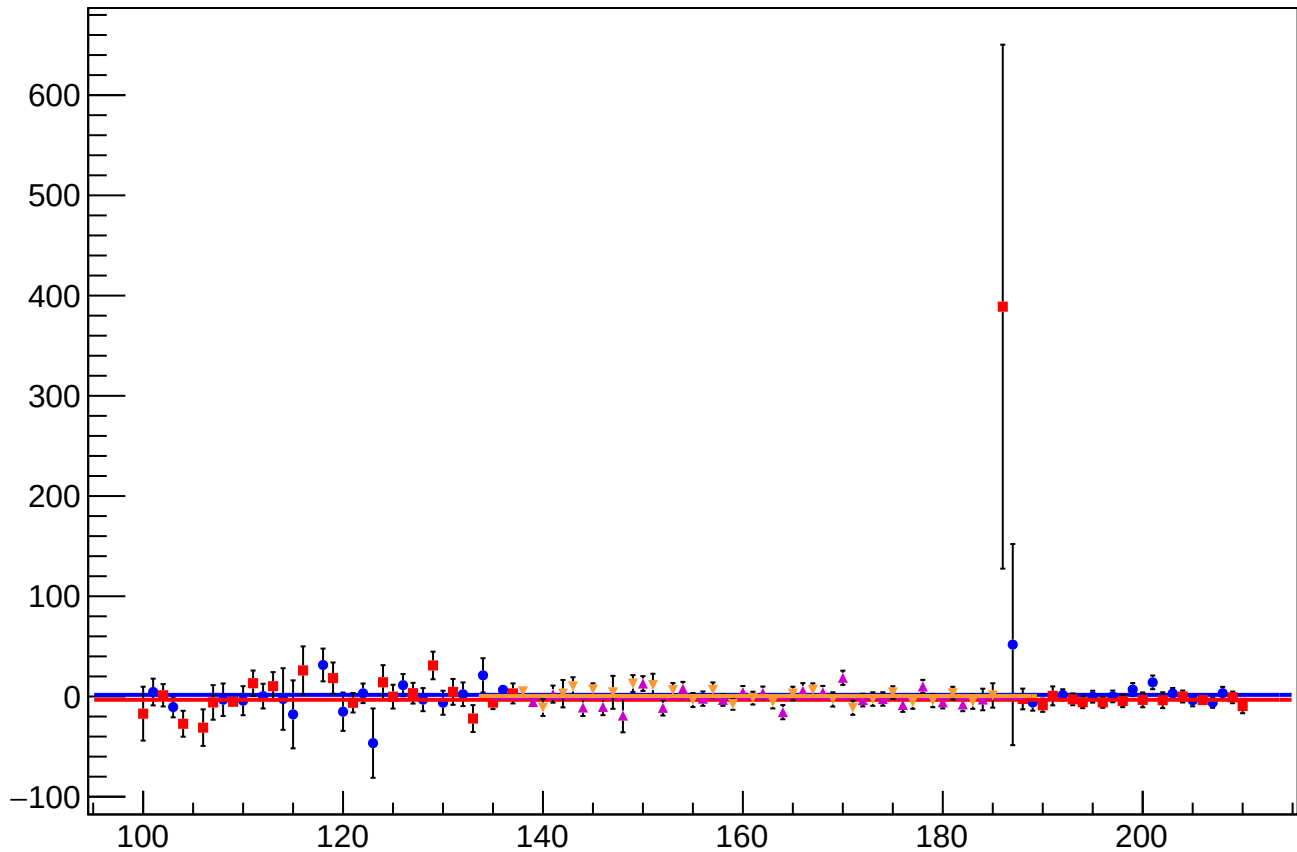
Right: 16398.063 $\pm$ 2.187 χ^2 /NDF: 5415491.1/60

In: 9946.436 $\pm$ 1.330 χ^2 /NDF: 7355521.6/50

Out: 10070.389 $\pm$ 1.293 χ^2 /NDF: 8932928.3/57

All: 10010.179 $\pm$ 0.927 χ^2 /NDF: 16292916.8

diff_bpm1Y_mean vs Slug, Sign Corrected



Right In: 1.635 ± 1.577 $\chi^2/\text{NDF}: 20.4/27$

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

Right Out: -3.271 ± 1.443 $\chi^2/\text{NDF}: 27.9/32$

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

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

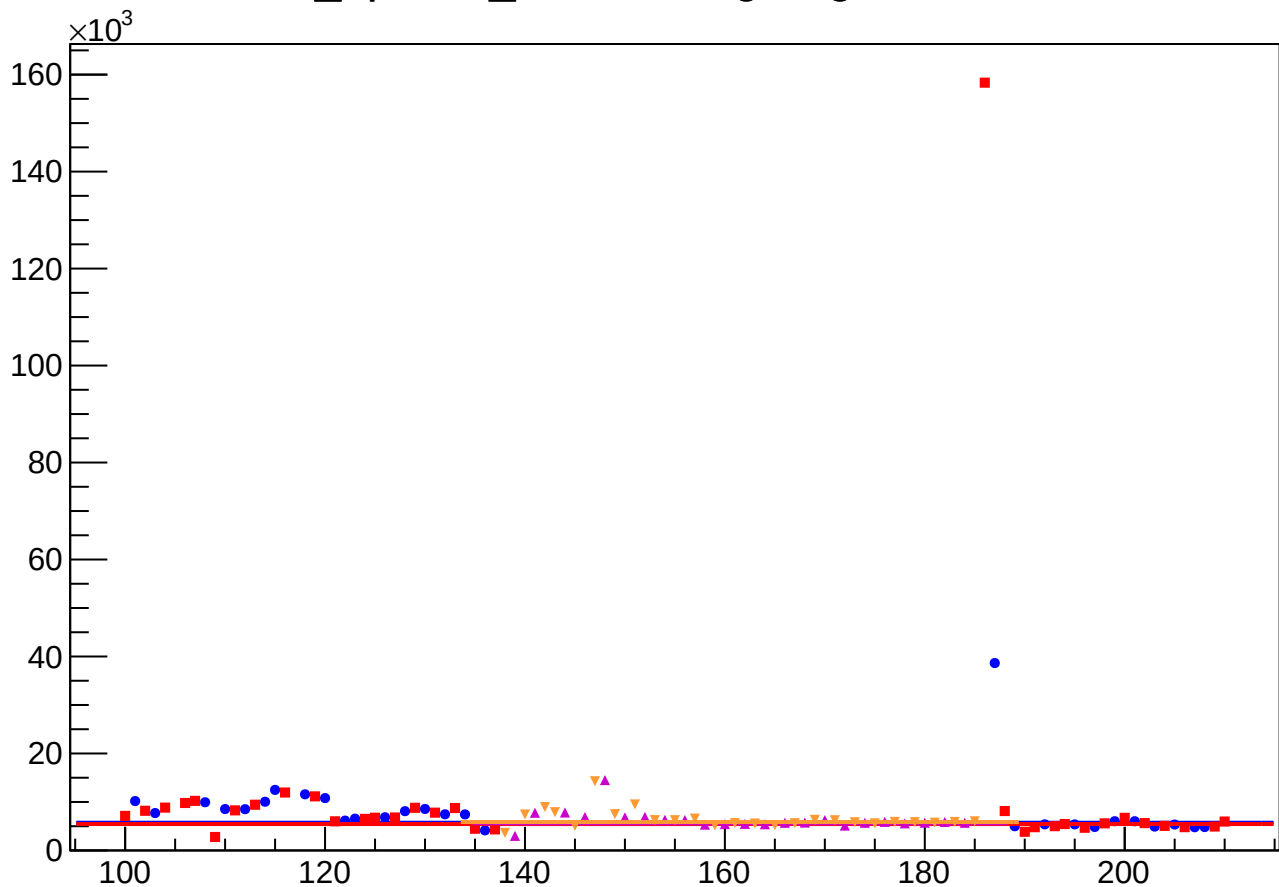
Right: -1.034 ± 1.065 $\chi^2/\text{NDF}: 53.6/60$

In: 0.001 ± 1.049 $\chi^2/\text{NDF}: 55.4/50$

Out: -1.364 ± 1.012 $\chi^2/\text{NDF}: 50.9/57$

All: -0.706 ± 0.728 $\chi^2/\text{NDF}: 107.2/108$

diff_bpm1Y_rms vs Slug, Sign Corrected



Right In: 5717.465 ± 1.115 $\chi^2/\text{NDF}: 2109510.1/27$

Left Out: 5858.642 ± 1.004 $\chi^2/\text{NDF}: 1691344.1/24$

Right Out: 5446.077 ± 1.021 $\chi^2/\text{NDF}: 3459271.2/32$

Left In: 5596.879 ± 0.994 $\chi^2/\text{NDF}: 2089750.1/22$

Left: 5726.555 ± 0.706 $\chi^2/\text{NDF}: 3815425.5/47$

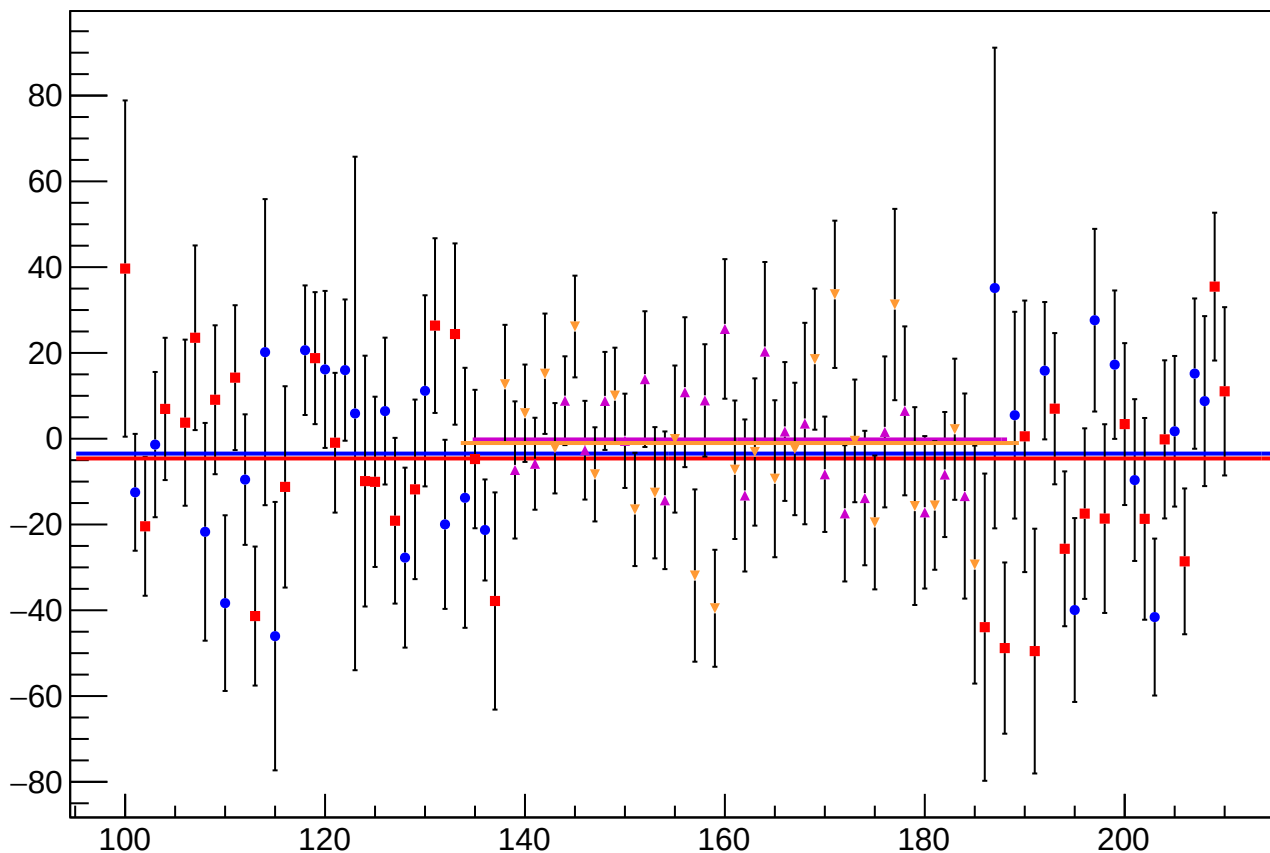
Right: 5569.804 ± 0.753 $\chi^2/\text{NDF}: 5601022.9/60$

In: 5650.305 ± 0.742 $\chi^2/\text{NDF}: 4205776.0/50$

Out: 5655.818 ± 0.716 $\chi^2/\text{NDF}: 5233702.6/57$

All: 5653.162 ± 0.515 $\chi^2/\text{NDF}: 9439507.3/10$

diff_bpm11X_mean vs Slug, Sign Corrected



Right In: -3.470 ± 3.596 χ^2/NDF : 31.2/27

Left Out: -1.007 ± 2.942 χ^2/NDF : 33.5/24

Right Out: -4.608 ± 3.421 χ^2/NDF : 40.6/32

Left In: -0.172 ± 3.067 χ^2/NDF : 12.4/22

Left: -0.607 ± 2.123 χ^2/NDF : 45.9/47

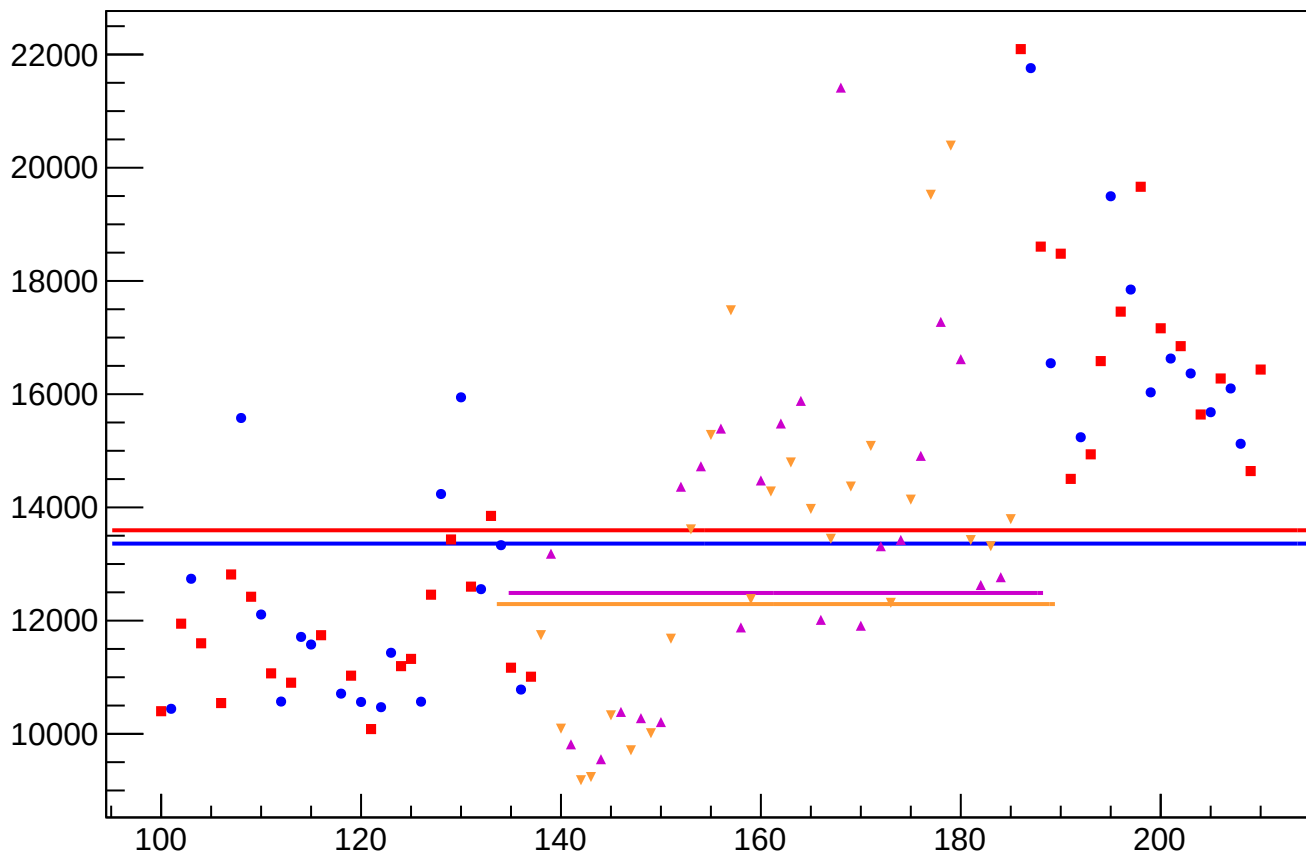
Right: -4.067 ± 2.478 χ^2/NDF : 71.9/60

In: -1.561 ± 2.334 χ^2/NDF : 44.1/50

Out: -2.538 ± 2.230 χ^2/NDF : 74.7/57

All: -2.072 ± 1.612 χ^2/NDF : 118.9/108

diff_bpm11X_rms vs Slug, Sign Corrected



Right In: 13360.713+/-2.542

χ^2/NDF : 1171367.3/27

Left Out: 12292.583+/-2.080

χ^2/NDF : 1502548.3/24

Right Out: 13595.862+/-2.419

χ^2/NDF : 1319108.5/32

Left In: 12488.821+/-2.169

χ^2/NDF : 1354485.4/22

Left: 12386.599+/-1.501

χ^2/NDF : 2861298.1/47

Right: 13484.147+/-1.752

χ^2/NDF : 2494966.0/60

In: 12856.059+/-1.650

χ^2/NDF : 2593920.4/50

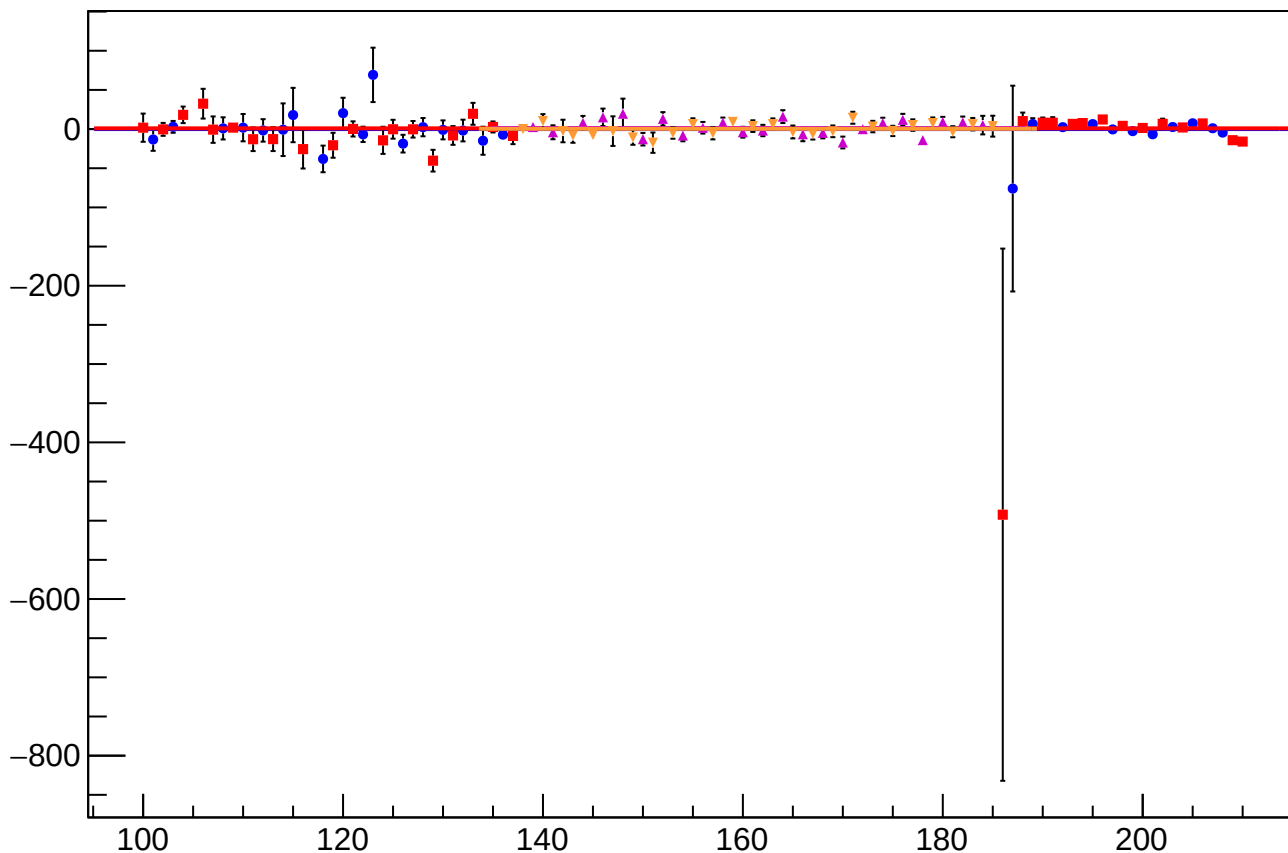
Out: 12846.633+/-1.577

χ^2/NDF : 2988558.9/57

All: 12851.133+/-1.140

χ^2/NDF : 5582496.4/100

diff_bpm11Y_mean vs Slug, Sign Corrected



Right In: 0.015 $\pm$ 1.344 χ^2 /NDF: 27.0/27

Left Out: 0.410 $\pm$ 1.435 χ^2 /NDF:19.3/24

Right Out: 0.938 $\pm$ 1.231 χ^2 /NDF: 67.0/32

Left In: 1.278 $\pm$ 1.386 χ^2 /NDF:34.0/22

Left: 0.859 $\pm$ 0.997 χ^2 /NDF: 53.5/47

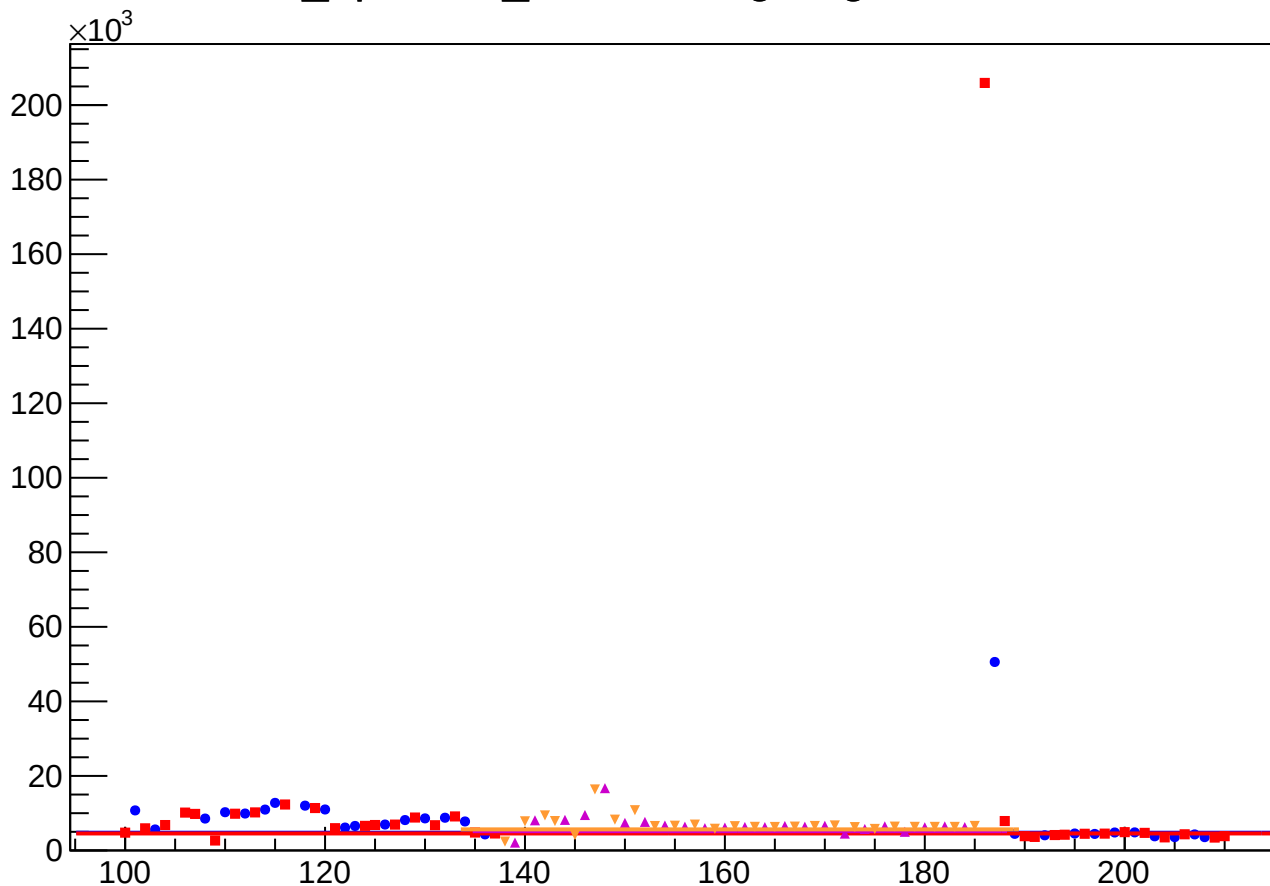
Right: 0.517 $\pm$ 0.908 χ^2 /NDF: 94.3/60

In: 0.627 $\pm$ 0.965 χ^2 /NDF:61.4/50

Out: 0.714 $\pm$ 0.934 χ^2 /NDF:86.4/57

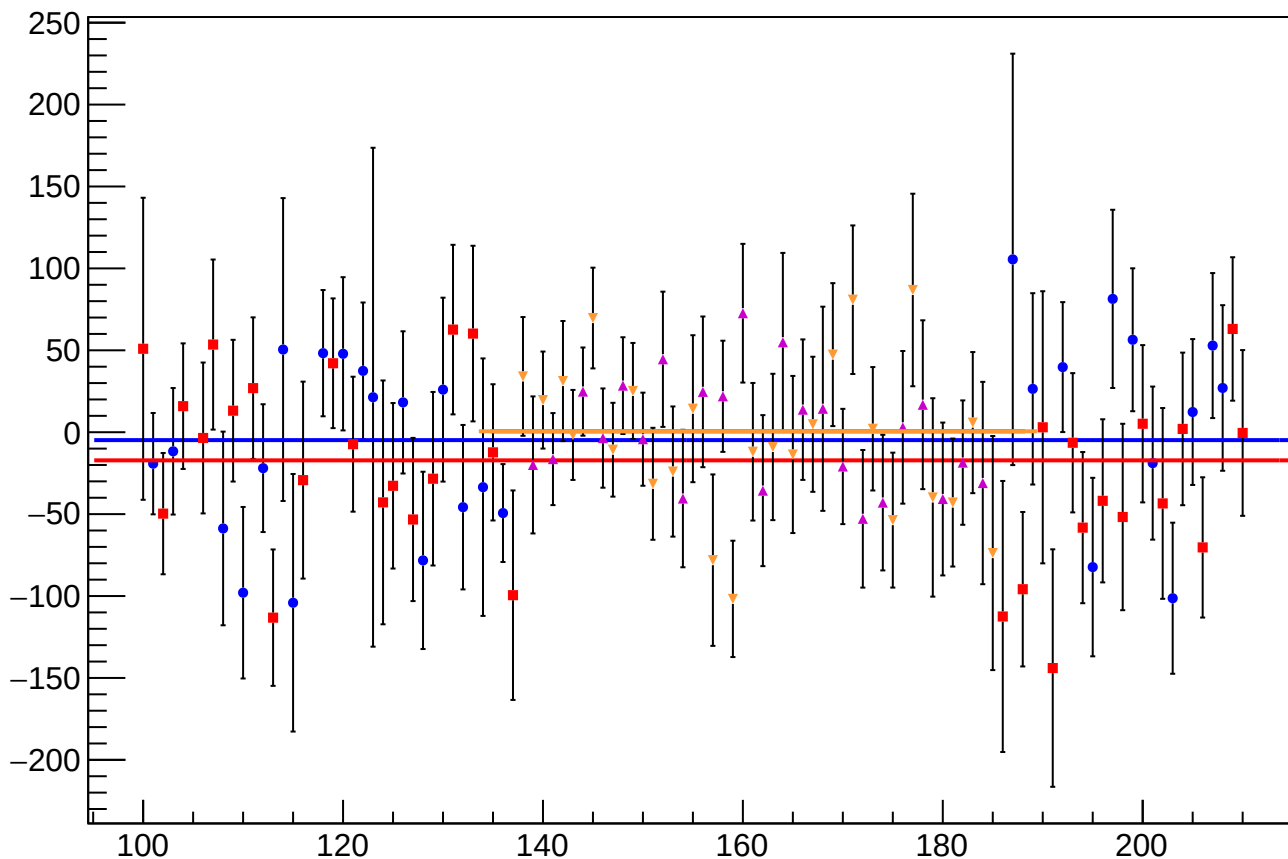
All: 0.672 $\pm$ 0.671 χ^2 /NDF: 147.8/108

diff_bpm11Y_rms vs Slug, Sign Corrected



Right In: 4760.076+/-0.951	χ^2/NDF : 3177195.7/27	Left: 5409.966+/-0.705	χ^2/NDF : 9587556.1/47
Left Out: 5655.639+/-1.014	χ^2/NDF : 4124124.3/24	Right: 4651.371+/-0.642	χ^2/NDF : 7155267.5/60
Right Out: 4560.235+/-0.870	χ^2/NDF : 3954032.8/32	In: 4964.041+/-0.682	χ^2/NDF : 8622194.8/50
Left In: 5180.743+/-0.980	χ^2/NDF : 5350053.6/22	Out: 5024.740+/-0.661	χ^2/NDF : 8749751.6/57
		All: 4995.372+/-0.475	χ^2/NDF : 17376031.6/100

diff_bpm12X_mean vs Slug, Sign Corrected



Right In: -4.823 ± 8.963 χ^2/NDF : 31.6/27

Left Out: 0.580 ± 7.691 χ^2/NDF : 31.0/24

Right Out: -17.175 ± 8.540 χ^2/NDF : 34.4/32

Left In: 0.565 ± 8.015 χ^2/NDF : 14.3/22

Left: 0.572 ± 5.549 χ^2/NDF : 45.3/47

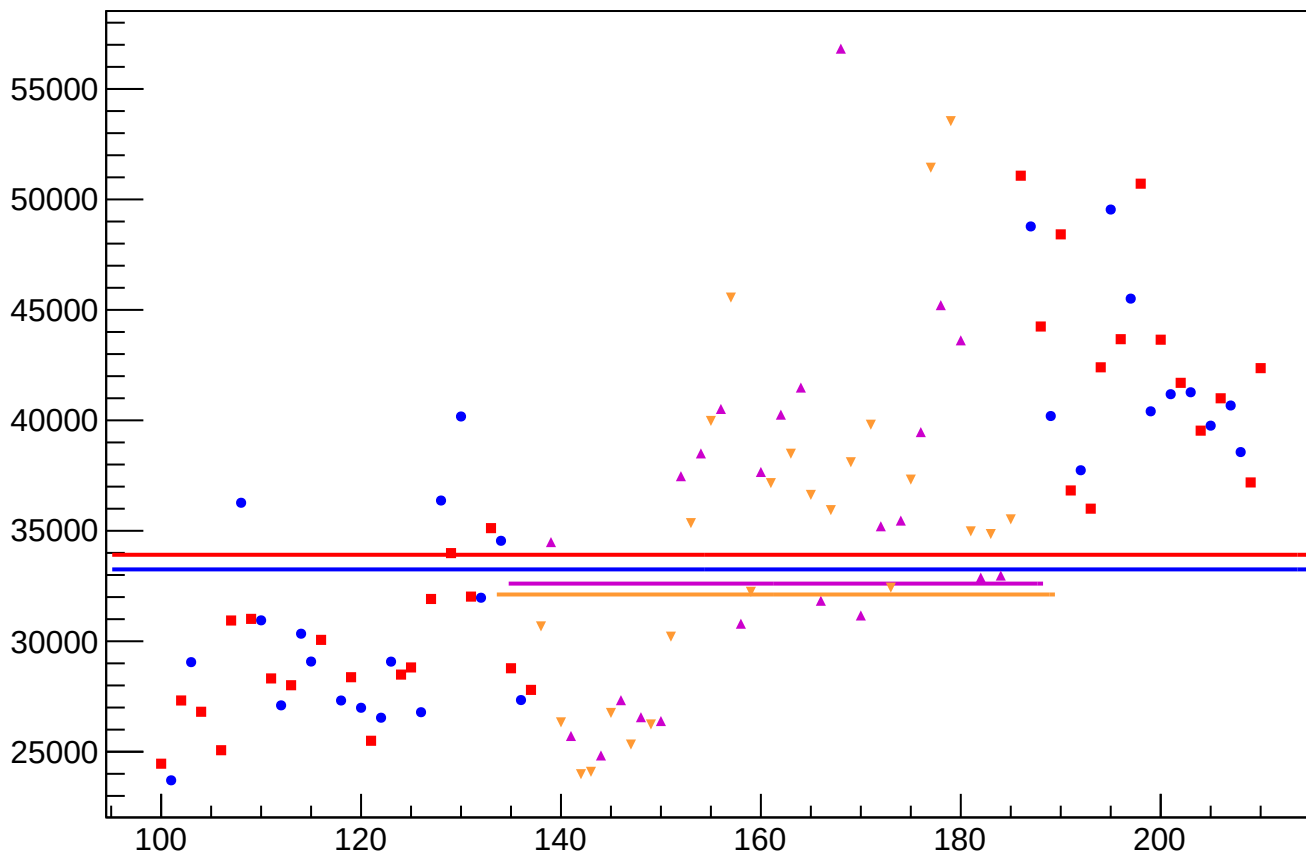
Right: -11.297 ± 6.183 χ^2/NDF : 67.0/60

In: -1.829 ± 5.974 χ^2/NDF : 46.1/50

Out: -7.371 ± 5.715 χ^2/NDF : 67.8/57

All: -4.723 ± 4.130 χ^2/NDF : 114.3/108

diff_bpm12X_rms vs Slug, Sign Corrected



Right In: 33252.798 $\pm$ 6.338

χ^2/NDF : 1236586.6/27

Left Out: 32117.184 $\pm$ 5.438

χ^2/NDF : 1536740.0/24

Right Out: 33914.892 $\pm$ 6.038

χ^2/NDF : 1372900.1/32

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: 33599.857 $\pm$ 4.372

χ^2/NDF : 2615207.3/60

In: 32895.656 $\pm$ 4.225

χ^2/NDF : 2640776.6/50

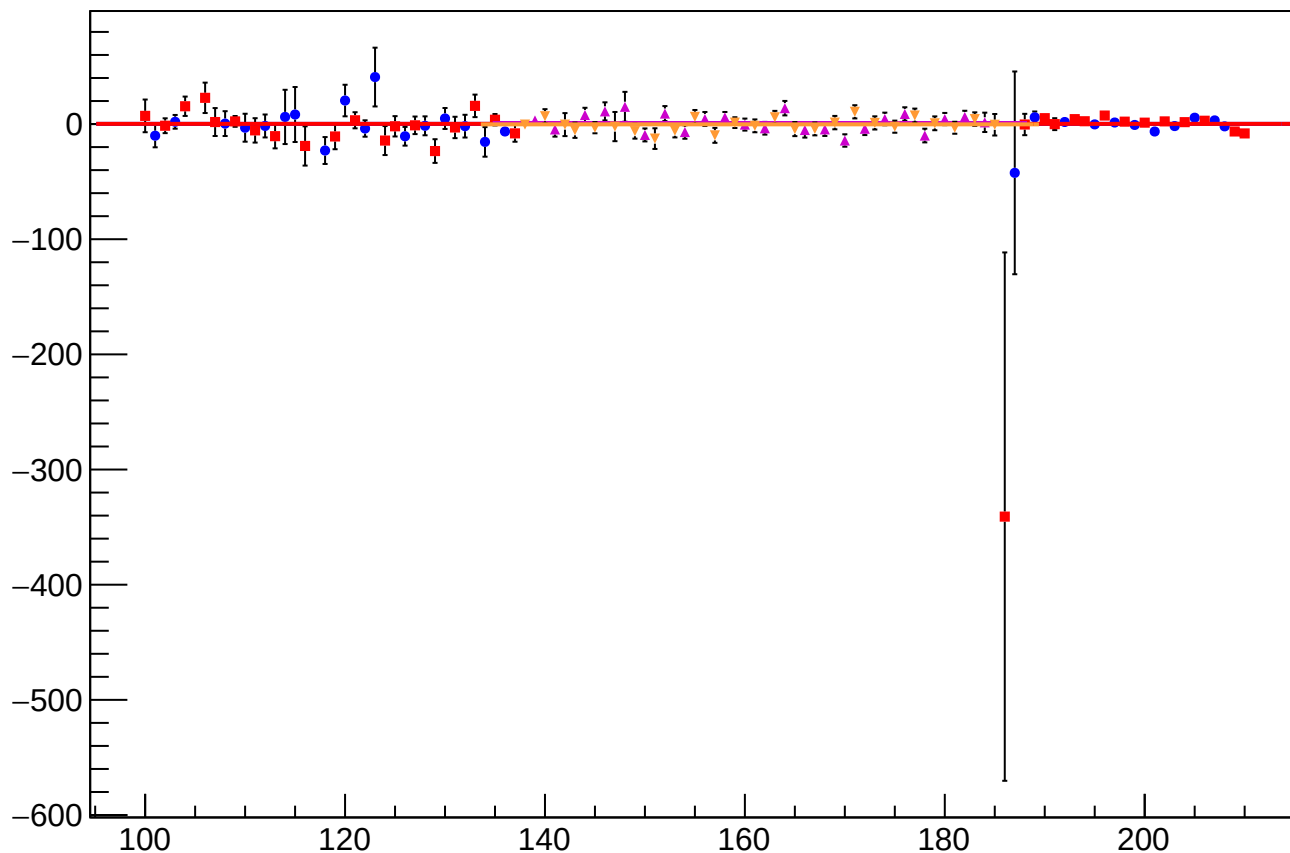
Out: 32922.255 $\pm$ 4.041

χ^2/NDF : 2958580.4/57

All: 32909.546 $\pm$ 2.920

χ^2/NDF : 5599377.7/131

diff_bpm12Y_mean vs Slug, Sign Corrected



Right In: 0.143 ± 0.820 χ^2/NDF : 32.6/27

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

Right Out: 0.171 ± 0.779 χ^2/NDF : 55.5/32

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

Left: 0.345 ± 0.822 χ^2/NDF : 54.7/47

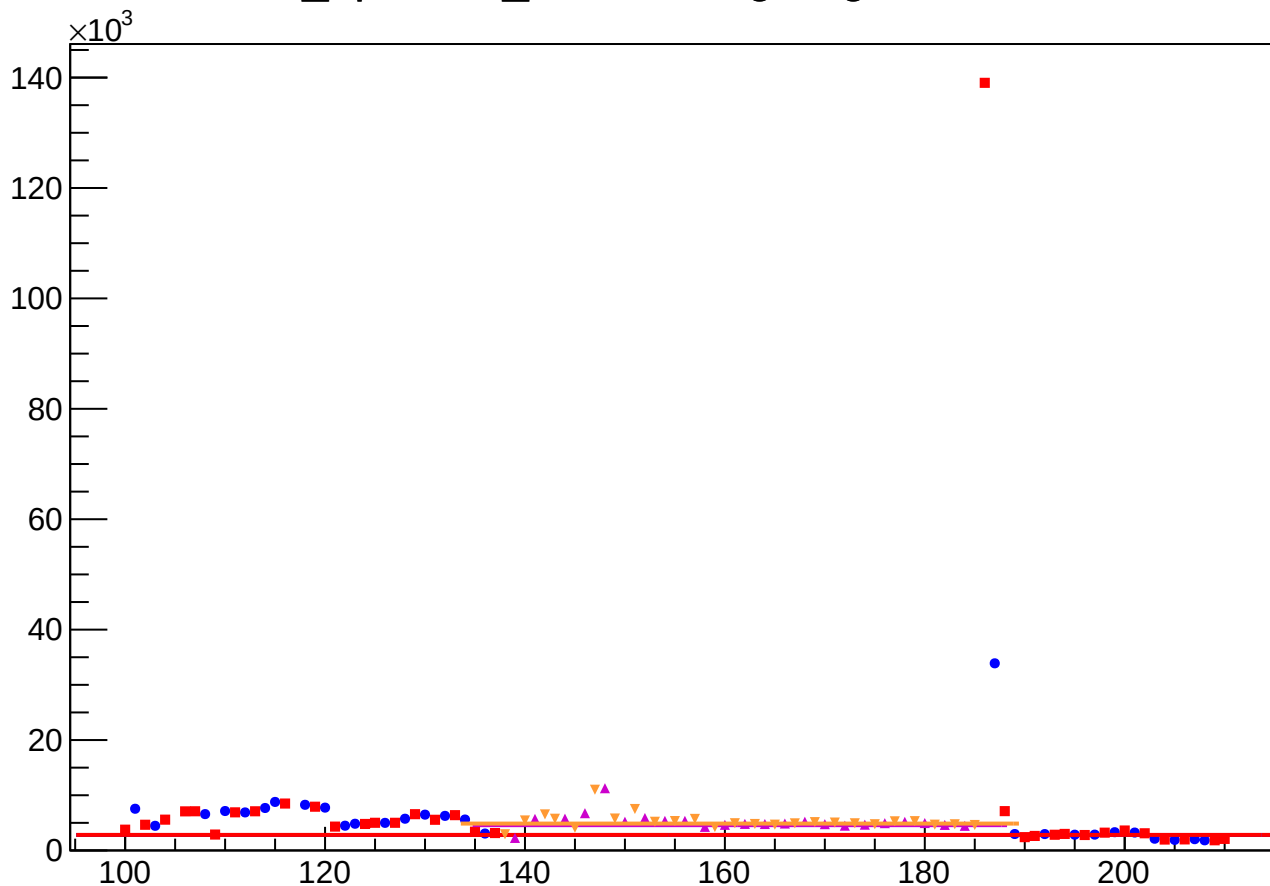
Right: 0.158 ± 0.565 χ^2/NDF : 88.1/60

In: 0.406 ± 0.668 χ^2/NDF : 69.0/50

Out: 0.040 ± 0.649 χ^2/NDF : 73.6/57

All: 0.218 ± 0.466 χ^2/NDF : 142.8/108

diff_bpm12Y_rms vs Slug, Sign Corrected



Right In: 2801.507 ± 0.580 $\chi^2/\text{NDF}: 4939657.0/27$

Left Out: 4866.528 ± 0.829 $\chi^2/\text{NDF}: 1511486.2/24$

Right Out: 2815.778 ± 0.551 $\chi^2/\text{NDF}: 5706881.8/32$

Left In: 4582.193 ± 0.816 $\chi^2/\text{NDF}: 2478681.0/22$

Left: 4722.017 ± 0.582 $\chi^2/\text{NDF}: 4049906.1/47$

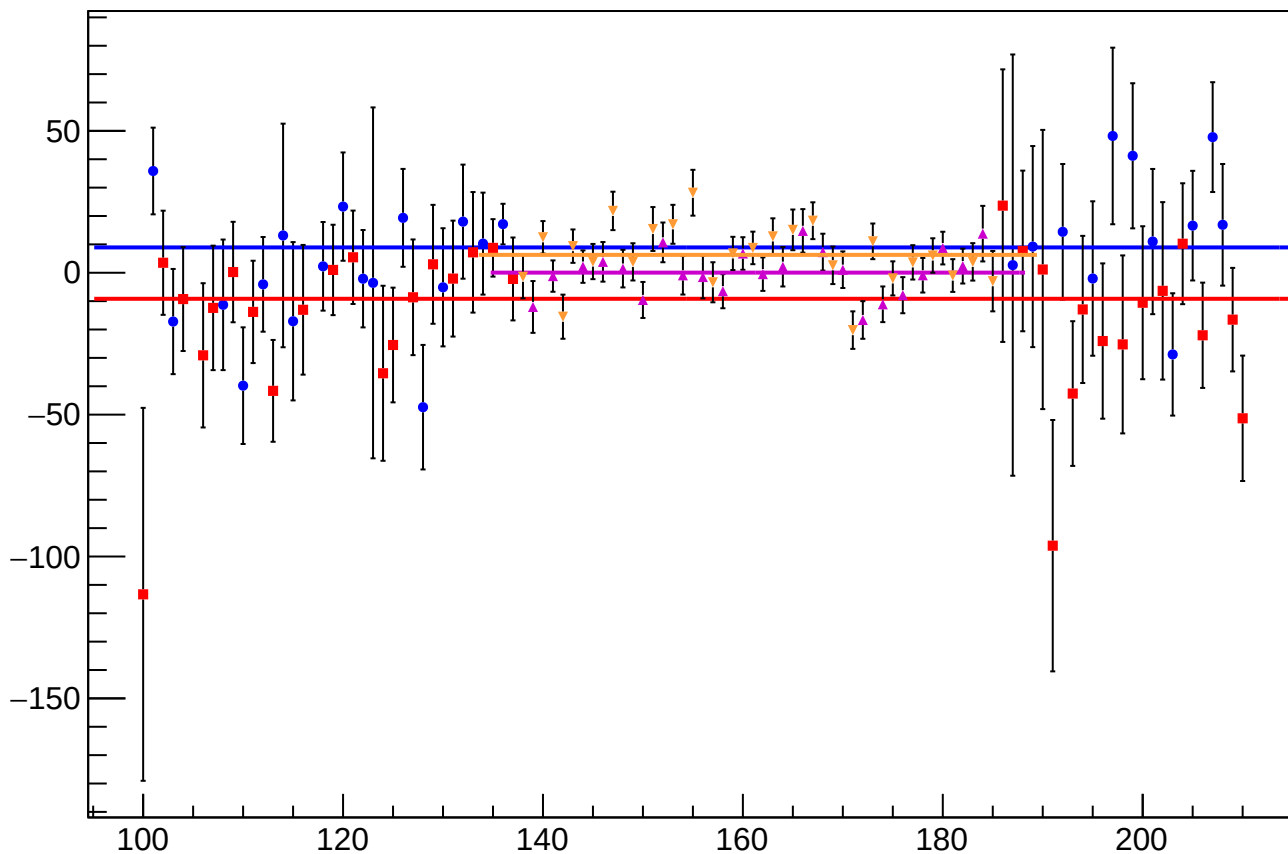
Right: 2809.004 ± 0.399 $\chi^2/\text{NDF}: 10646857.0/60$

In: 3399.162 ± 0.473 $\chi^2/\text{NDF}: 10583734.2/50$

Out: 3444.035 ± 0.459 $\chi^2/\text{NDF}: 11459578.3/57$

All: 3422.253 ± 0.329 $\chi^2/\text{NDF}: 22047951.2/107$

diff_bpm16X_mean vs Slug, Sign Corrected



Right In: 8.929 ± 3.577 $\chi^2/\text{NDF}: 33.9/27$

Left Out: 6.302 ± 1.313 $\chi^2/\text{NDF}: 56.7/24$

Right Out: -9.174 ± 3.615 $\chi^2/\text{NDF}: 26.4/32$

Left In: 0.044 ± 1.358 $\chi^2/\text{NDF}: 30.0/22$

Left: 3.279 ± 0.944 $\chi^2/\text{NDF}: 97.7/47$

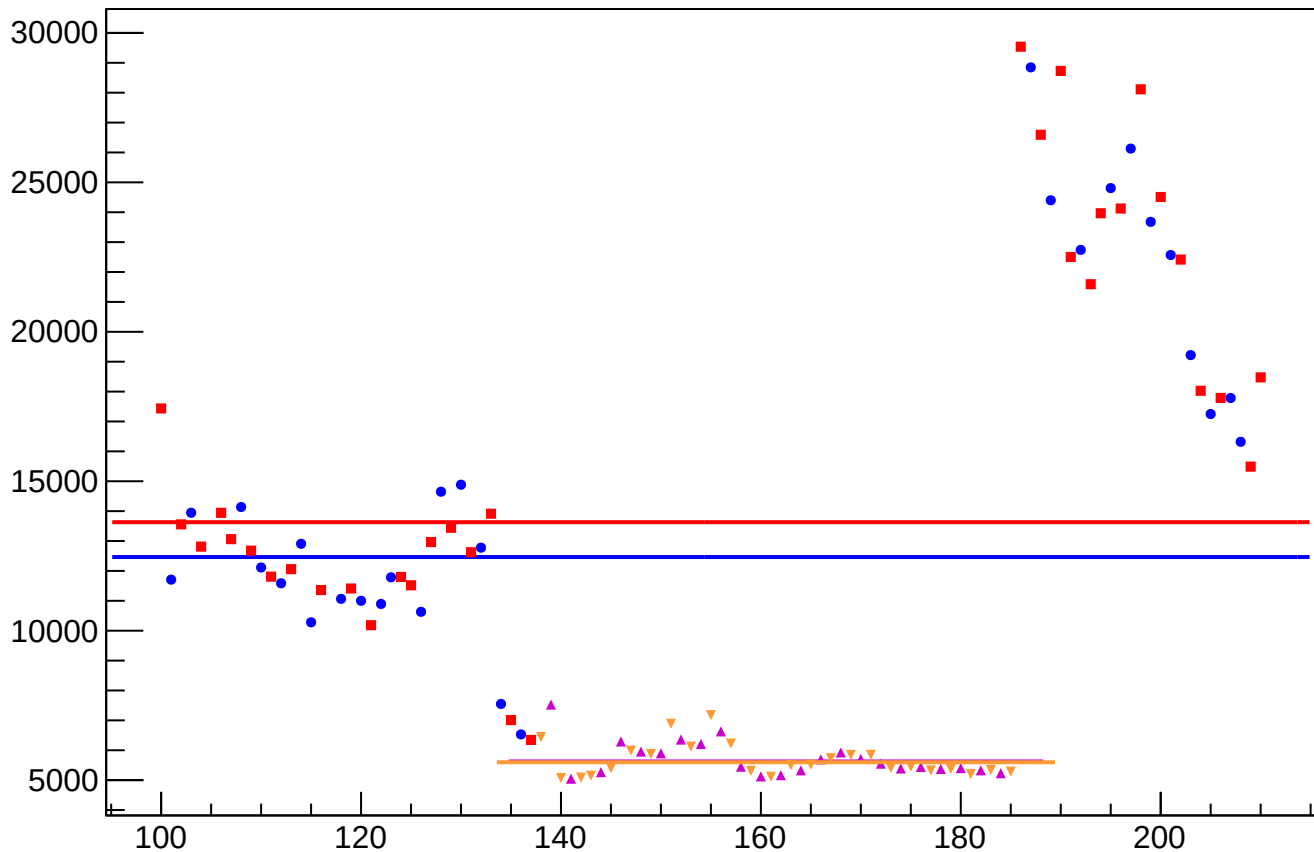
Right: -0.027 ± 2.543 $\chi^2/\text{NDF}: 73.0/60$

In: 1.163 ± 1.269 $\chi^2/\text{NDF}: 69.3/50$

Out: 4.500 ± 1.234 $\chi^2/\text{NDF}: 99.3/57$

All: 2.879 ± 0.885 $\chi^2/\text{NDF}: 172.2/108$

diff_bpm16X_rms vs Slug, Sign Corrected



Right In: 12464.555 $\pm$ 2.529 χ^2 /NDF: 4408218.4/27

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

Right Out: 13630.412 $\pm$ 2.556 χ^2 /NDF: 4515938.9/32

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

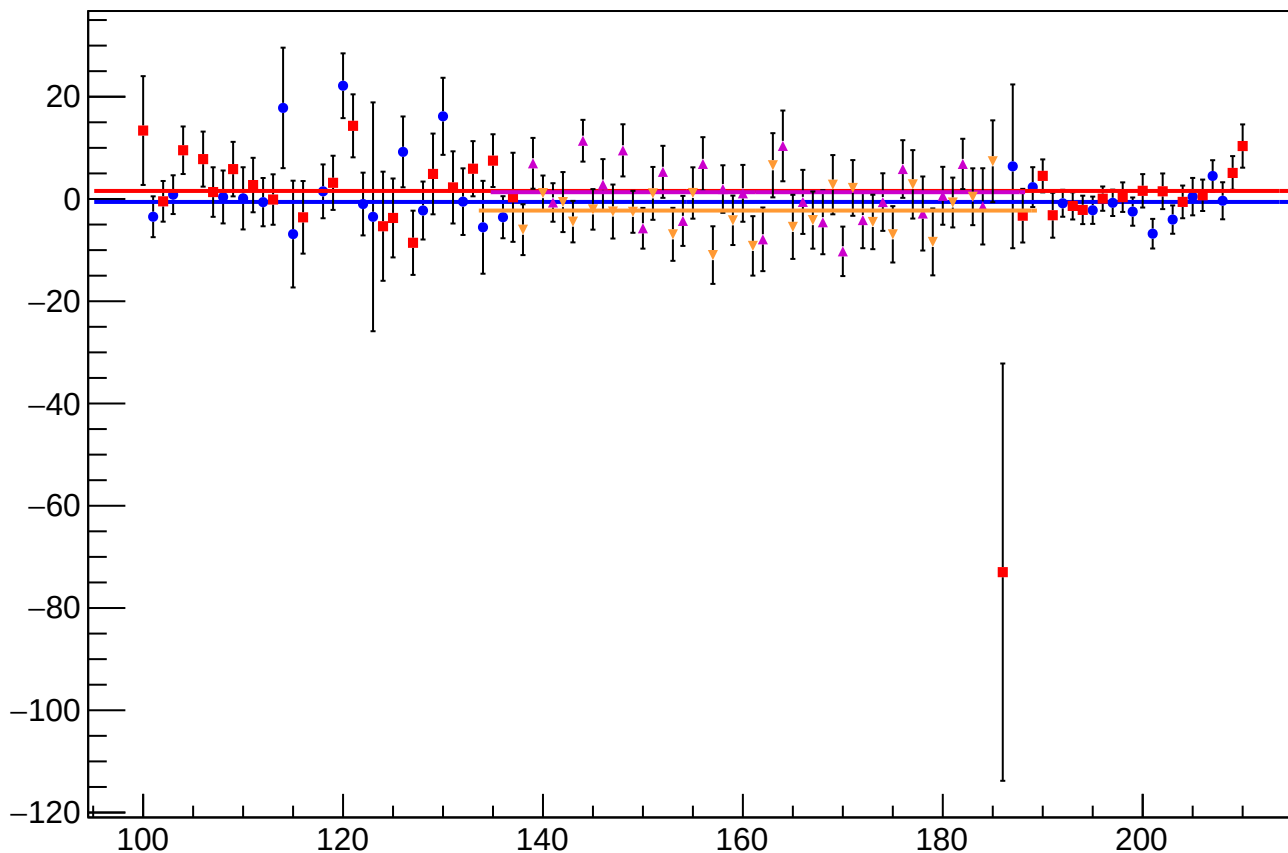
Right: 13041.298 $\pm$ 1.798 χ^2 /NDF: 9029256.5/60

In: 6486.426 $\pm$ 0.898 χ^2 /NDF: 11071583.1/50

Out: 6534.164 $\pm$ 0.872 χ^2 /NDF: 13520605.3/57

All: 6510.974 $\pm$ 0.626 χ^2 /NDF: 24593643.0/112

diff_bpm16Y_mean vs Slug, Sign Corrected



Right In: -0.578 ± 0.778 χ^2/NDF : 35.0/27

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

Right Out: 1.573 ± 0.737 χ^2/NDF : 32.9/32

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

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

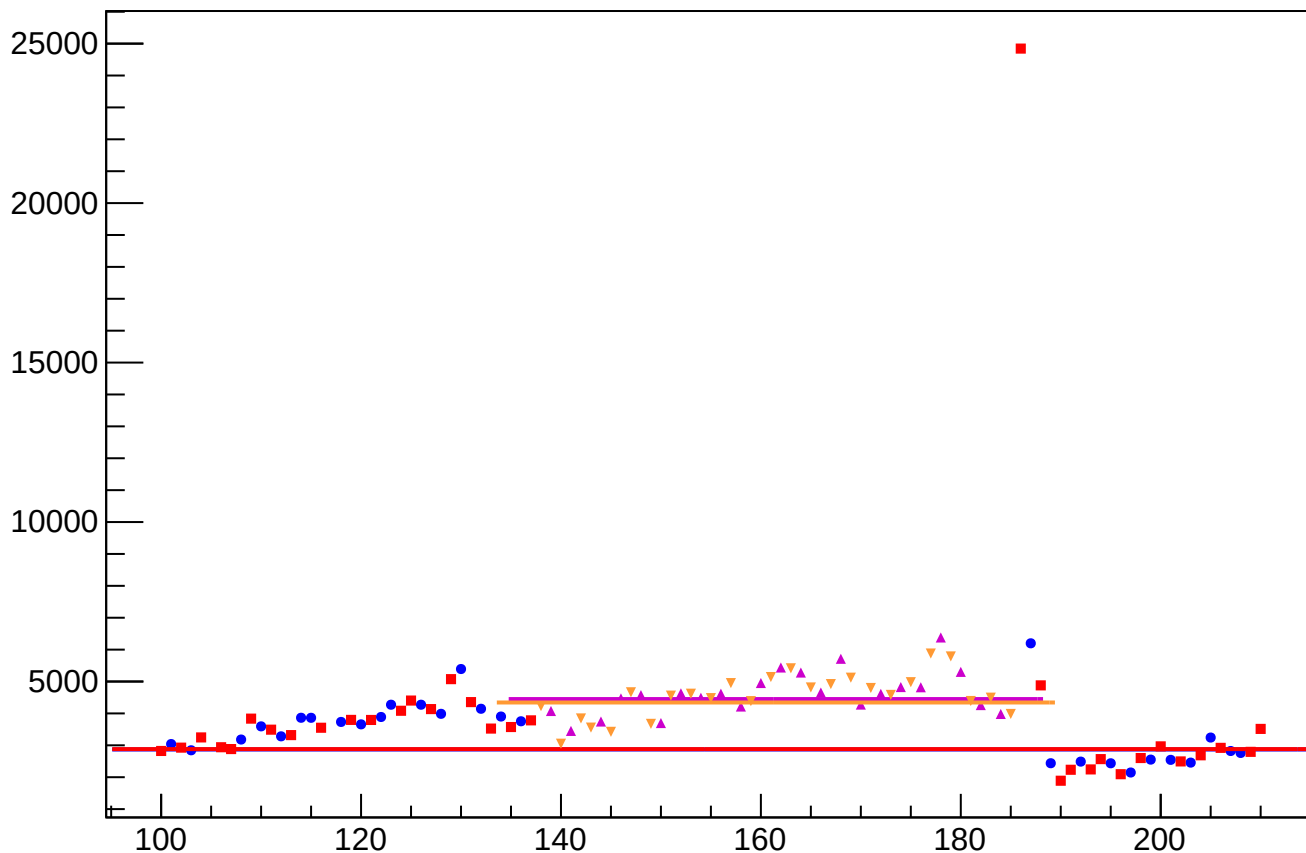
Right: 0.555 ± 0.535 χ^2/NDF : 71.8/60

In: 0.071 ± 0.632 χ^2/NDF : 67.6/50

Out: 0.275 ± 0.599 χ^2/NDF : 57.5/57

All: 0.178 ± 0.435 χ^2/NDF : 125.2/108

diff_bpm16Y_rms vs Slug, Sign Corrected



Right In: 2869.257+/-0.550

χ^2/NDF : 1294948.2/27

Left Out: 4342.635+/-0.728

χ^2/NDF : 993035.5/24

Right Out: 2880.769+/-0.521

χ^2/NDF : 2311305.6/32

Left In: 4450.007+/-0.765

χ^2/NDF : 693229.8/22

Left: 4393.686+/-0.528

χ^2/NDF : 1696596.0/47

Right: 2875.322+/-0.378

χ^2/NDF : 3606484.7/60

In: 3407.747+/-0.447

χ^2/NDF : 4802719.7/50

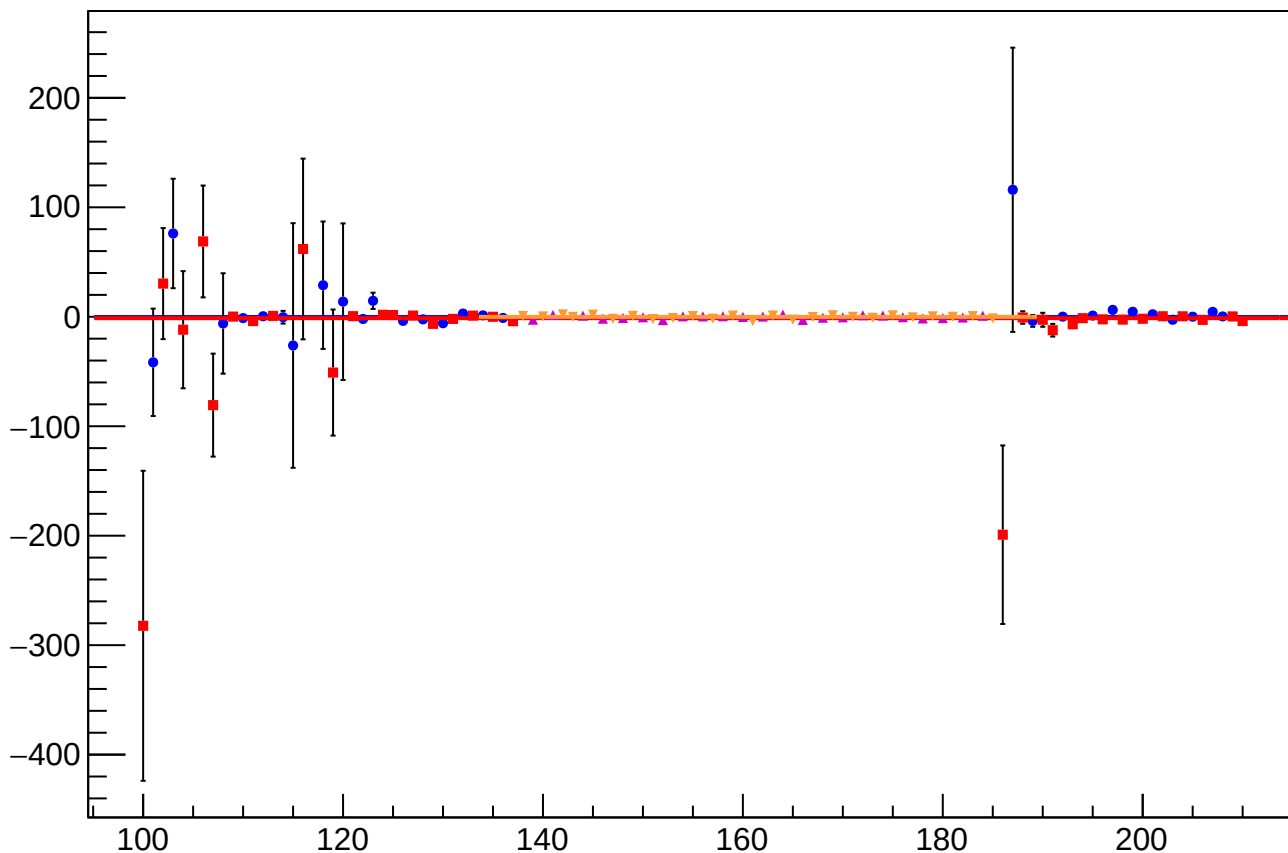
Out: 3375.703+/-0.424

χ^2/NDF : 5968361.4/57

All: 3390.890+/-0.307

χ^2/NDF : 10773789.9/131

diff_bpm1p02bX_mean vs Slug, Sign Corrected



Right In: -0.257 ± 0.584 χ^2/NDF : 31.6/27

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

Right Out: -1.263 ± 0.554 χ^2/NDF : 37.2/32

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

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

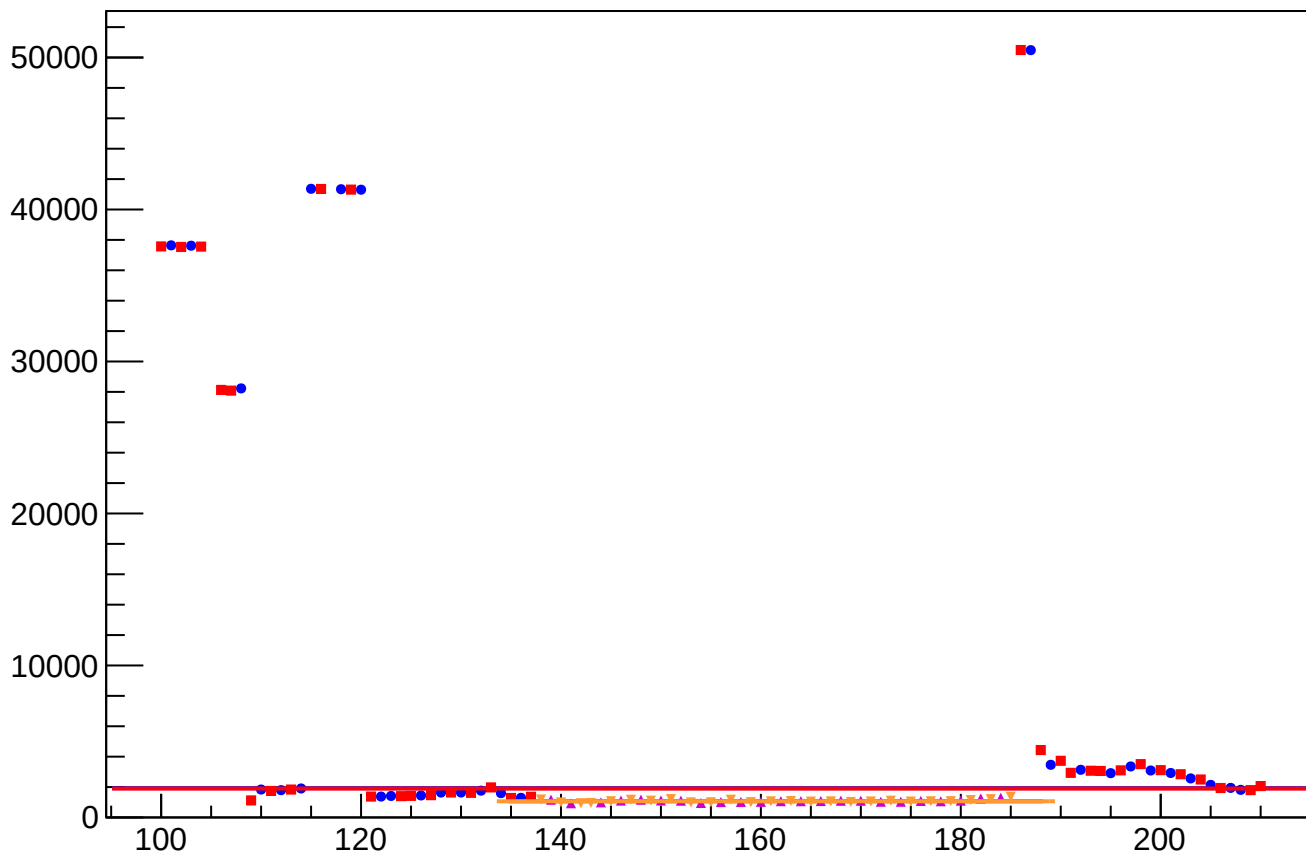
Right: -0.787 ± 0.402 χ^2/NDF : 70.3/60

In: -0.259 ± 0.235 χ^2/NDF : 58.8/50

Out: -0.289 ± 0.227 χ^2/NDF : 75.4/57

All: -0.274 ± 0.163 χ^2/NDF : 134.2/108

diff_bpm1p02bX_rms vs Slug, Sign Corrected



Right In: 1924.943+/-0.413

χ^2/NDF : 6924302.3/27

Left Out: 1064.701+/-0.176

χ^2/NDF : 186511.5/24

Right Out: 1903.036+/-0.392

χ^2/NDF : 8353769.7/32

Left In: 1066.255+/-0.182

χ^2/NDF : 164232.1/22

Left: 1065.454+/-0.126

χ^2/NDF : 350781.3/47

Right: 1913.403+/-0.284

χ^2/NDF : 15279553.7/60

In: 1205.477+/-0.166

χ^2/NDF : 10709516.3/50

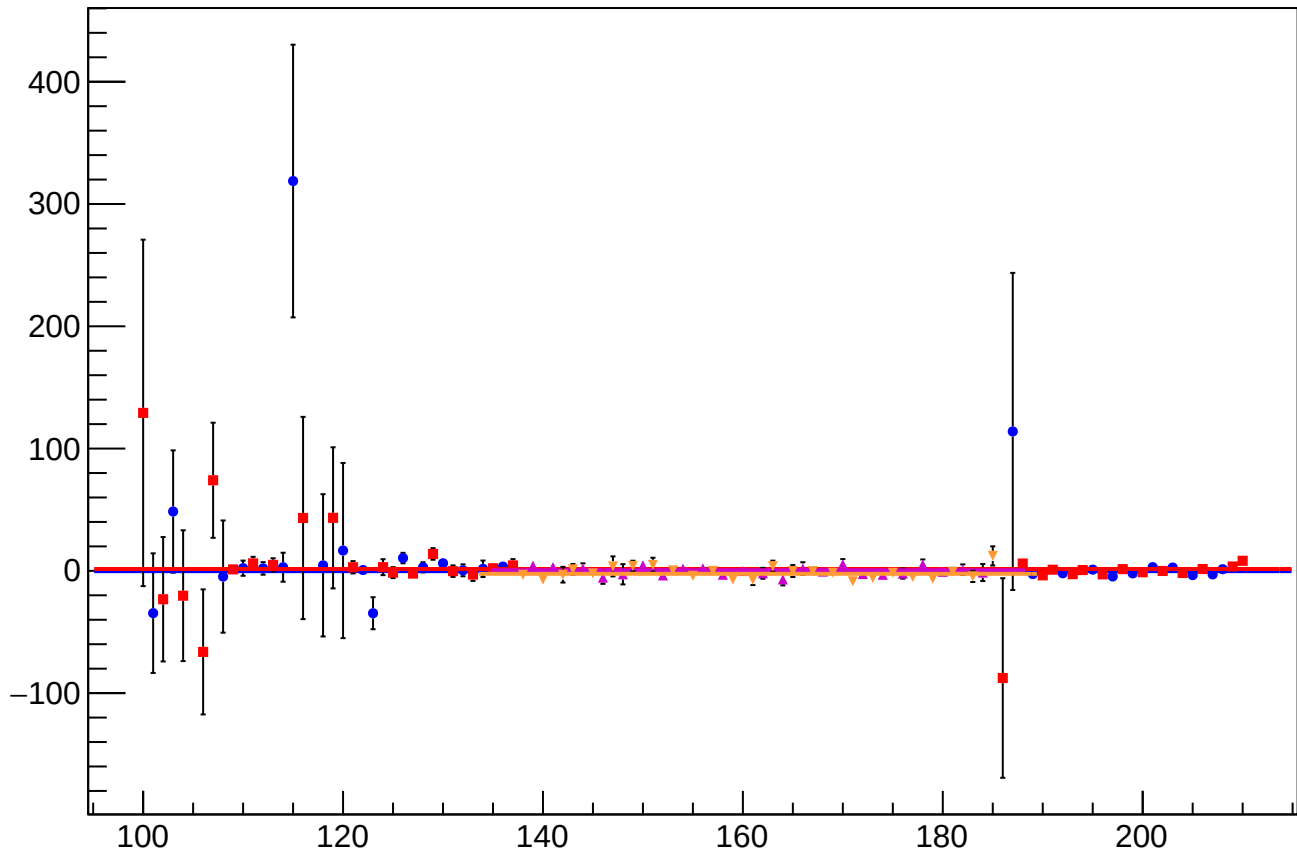
Out: 1205.775+/-0.161

χ^2/NDF : 12353935.2/57

All: 1205.631+/-0.116

χ^2/NDF : 23063453.1/131

diff_bpm1p02bY_mean vs Slug, Sign Corrected



Right In: -0.247 ± 0.548 $\chi^2/\text{NDF}: 49.6/27$

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

Right Out: 1.516 ± 0.523 $\chi^2/\text{NDF}: 53.4/32$

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

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

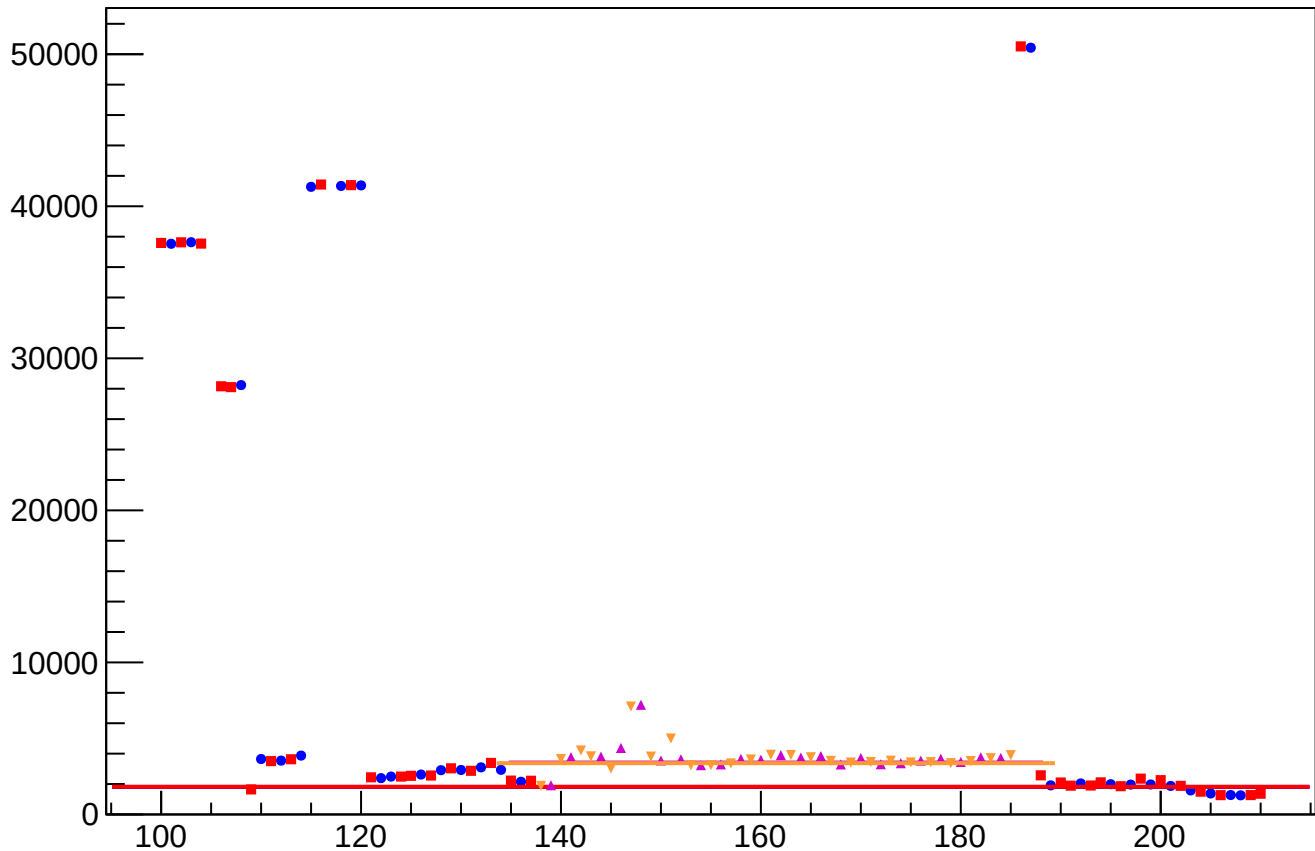
Right: 0.676 ± 0.378 $\chi^2/\text{NDF}: 108.4/60$

In: -0.034 ± 0.460 $\chi^2/\text{NDF}: 65.6/50$

Out: 0.358 ± 0.440 $\chi^2/\text{NDF}: 91.3/57$

All: 0.171 ± 0.318 $\chi^2/\text{NDF}: 157.3/108$

diff_bpm1p02bY_rms vs Slug, Sign Corrected



Right In: 1809.973+/-0.388

χ^2/NDF : 6705560.7/27

Left: 3391.680+/-0.413

χ^2/NDF : 3093609.1/47

Left Out: 3372.958+/-0.573

χ^2/NDF : 1656864.7/24

Right: 1814.961+/-0.268

χ^2/NDF : 14159052.9/60

Right Out: 1819.504+/-0.370

χ^2/NDF : 7453175.7/32

In: 2286.179+/-0.325

χ^2/NDF : 13217181.2/50

Out: 2276.349+/-0.311

χ^2/NDF : 14295984.7/57

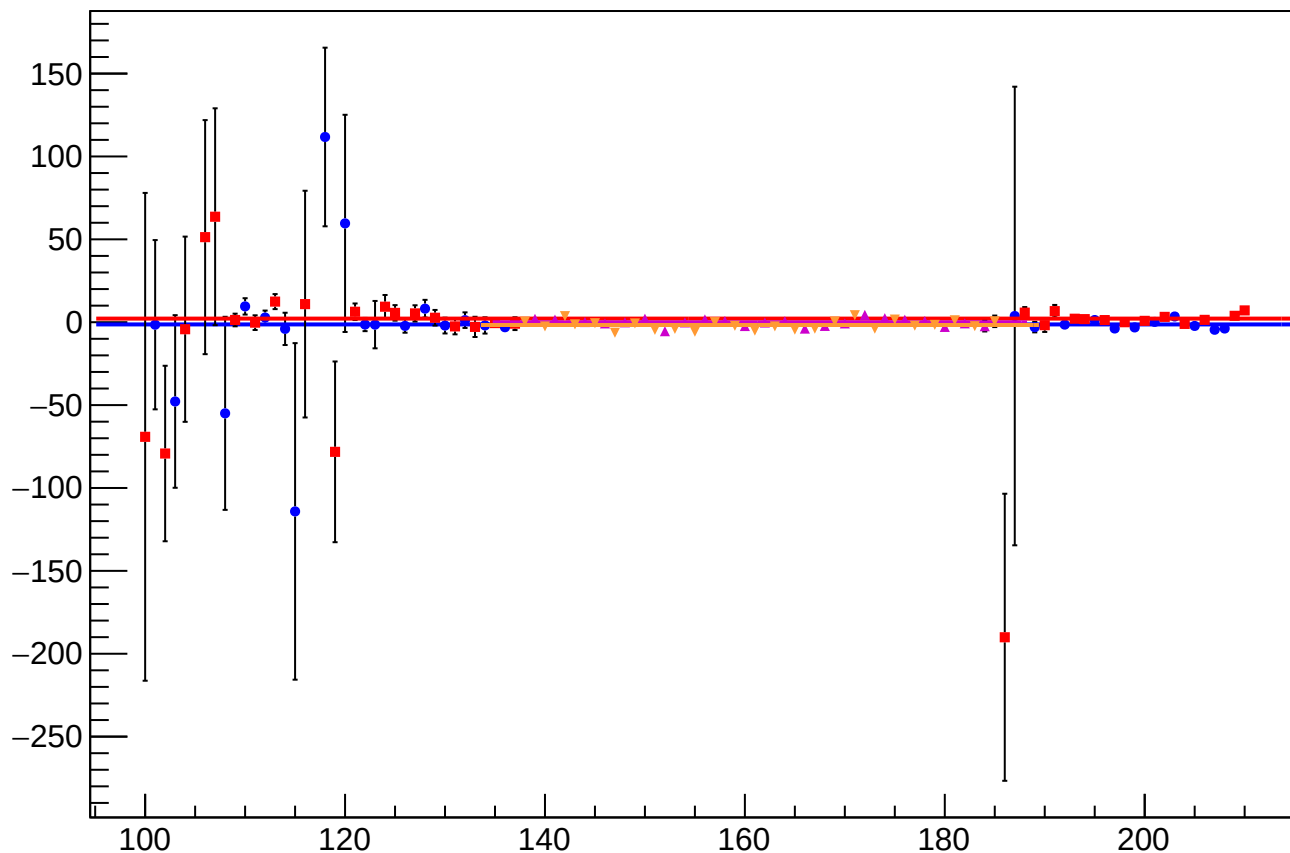
Left In: 3411.924+/-0.596

χ^2/NDF : 1434523.7/22

All: 2281.046+/-0.225

χ^2/NDF : 27513643.8/100

diff_bpm1p03aX_mean vs Slug, Sign Corrected



Right In: -1.331 ± 0.633 χ^2/NDF : 29.5/27

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

Right Out: 2.181 ± 0.611 χ^2/NDF : 33.4/32

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

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

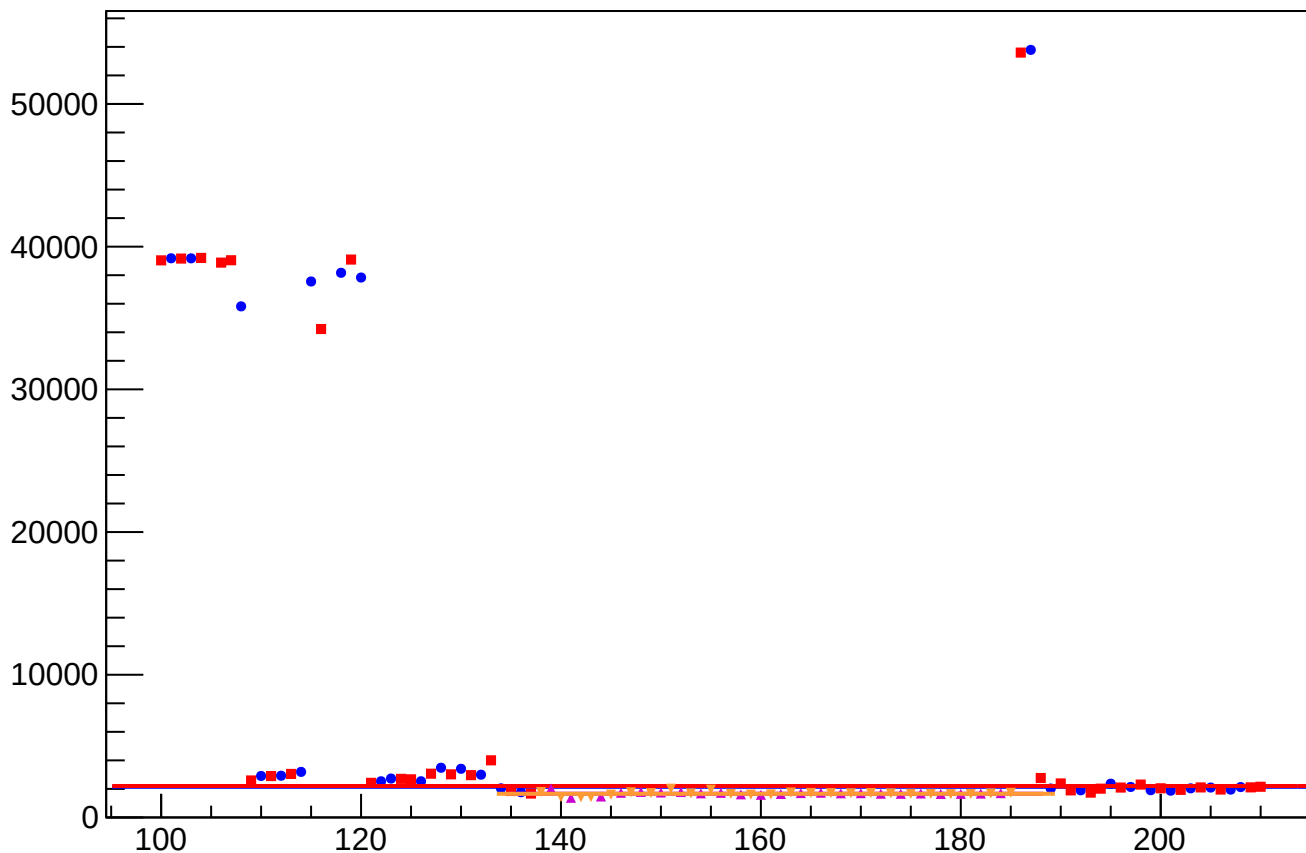
Right: 0.489 ± 0.440 χ^2/NDF : 78.9/60

In: -0.432 ± 0.339 χ^2/NDF : 60.6/50

Out: -0.564 ± 0.328 χ^2/NDF : 107.4/57

All: -0.500 ± 0.235 χ^2/NDF : 168.1/108

diff_bpm1p03aX_rms vs Slug, Sign Corrected



Right In: 2148.525+/-0.448 χ^2/NDF : 5458594.8/27

Left Out: 1657.770+/-0.274 χ^2/NDF : 223465.3/24

Right Out: 2204.331+/-0.432 χ^2/NDF : 6066833.9/32

Left In: 1663.620+/-0.284 χ^2/NDF : 178858.2/22

Left: 1660.599+/-0.197 χ^2/NDF : 402543.2/47

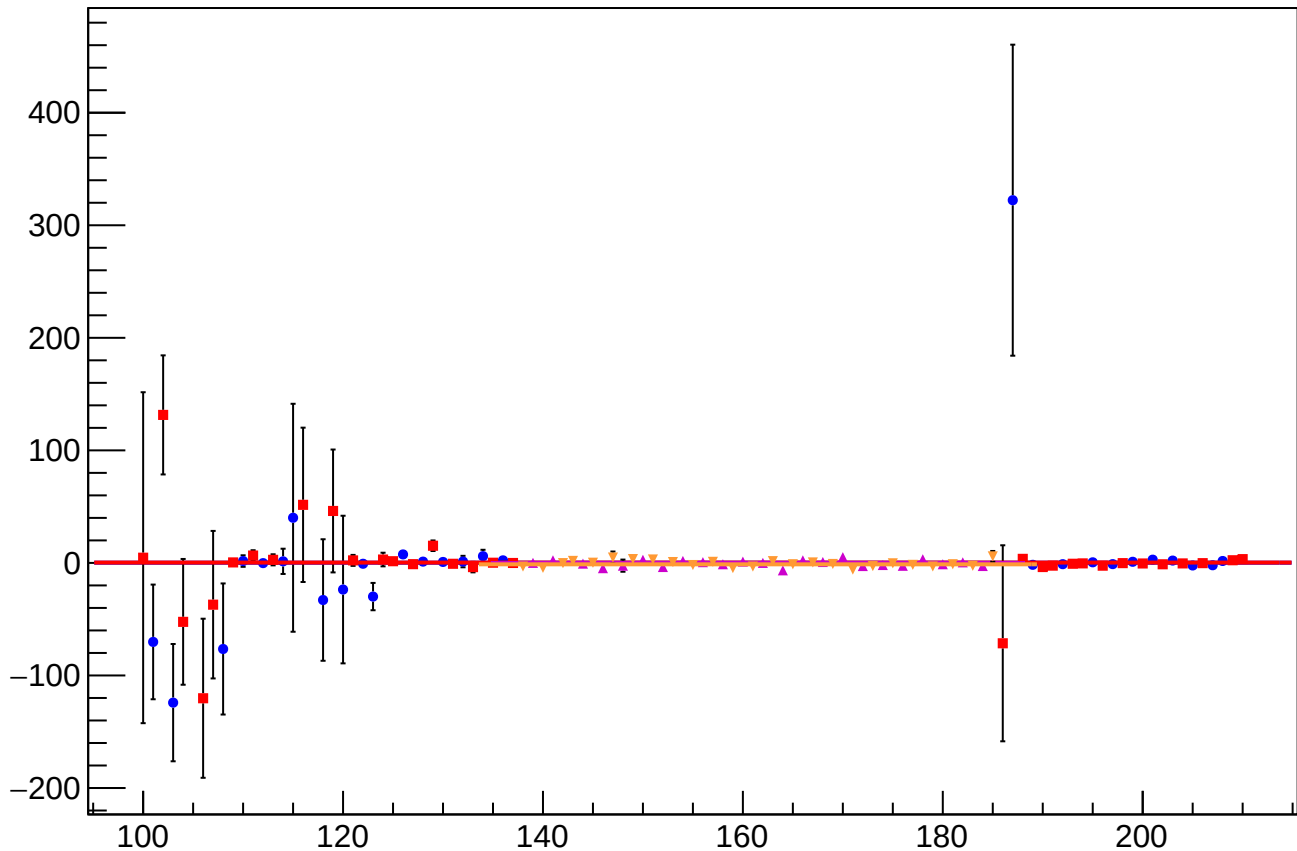
Right: 2177.433+/-0.311 χ^2/NDF : 11533475.2/60

In: 1802.438+/-0.240 χ^2/NDF : 6474471.8/50

Out: 1814.942+/-0.232 χ^2/NDF : 7431110.8/57

All: 1808.902+/-0.167 χ^2/NDF : 13906990.5/107

diff_bpm1p03aY_mean vs Slug, Sign Corrected



Right In: 0.177 ± 0.470 $\chi^2/\text{NDF}: 41.0/27$

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

Right Out: 0.306 ± 0.448 $\chi^2/\text{NDF}: 40.7/32$

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

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

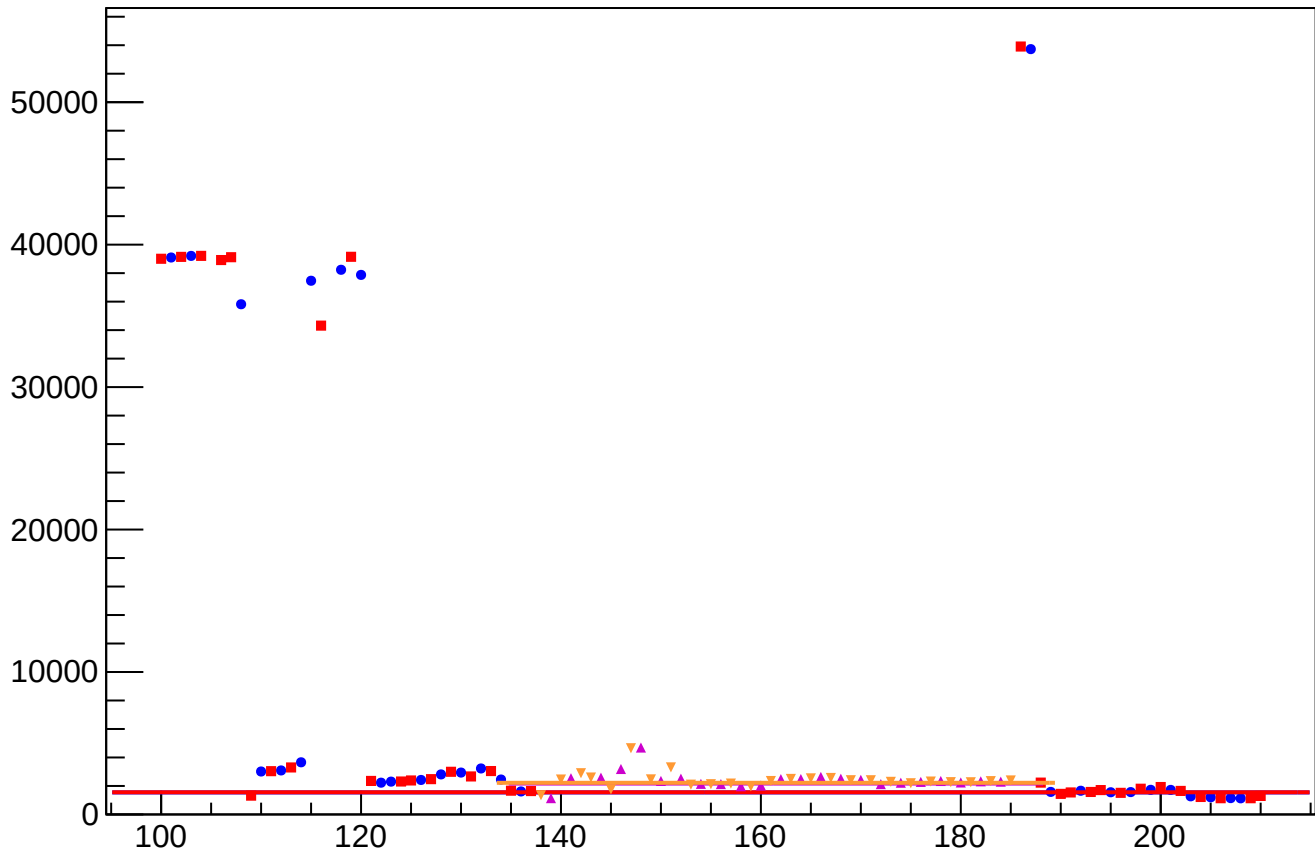
Right: 0.245 ± 0.324 $\chi^2/\text{NDF}: 81.7/60$

In: 0.059 ± 0.355 $\chi^2/\text{NDF}: 60.4/50$

Out: -0.335 ± 0.343 $\chi^2/\text{NDF}: 67.4/57$

All: -0.144 ± 0.247 $\chi^2/\text{NDF}: 128.5/108$

diff_bpm1p03aY_rms vs Slug, Sign Corrected



Right In: 1545.094+/-0.332 χ^2/NDF : 6861958.6/27

Left Out: 2222.081+/-0.378 χ^2/NDF :1422440.9/24

Right Out: 1556.924+/-0.317 χ^2/NDF : 7477013.5/32

Left In: 2169.443+/-0.383 χ^2/NDF :1974869.8/22

Left: 2196.064+/-0.269 χ^2/NDF : 3406878.6/47

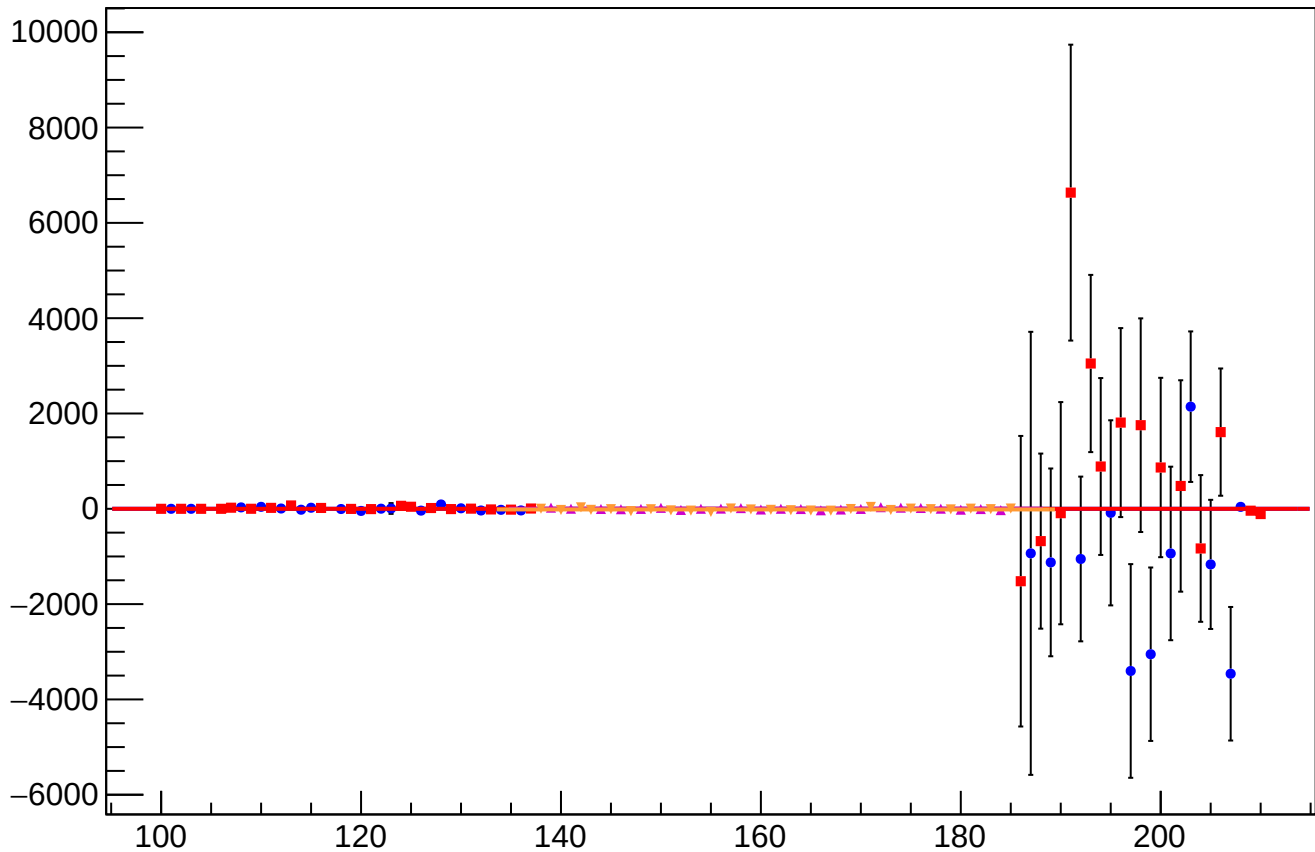
Right: 1551.292+/-0.229 χ^2/NDF : 14339636.8/60

In: 1813.307+/-0.251 χ^2/NDF :10355020.6/50

Out: 1830.901+/-0.243 χ^2/NDF :10717297.3/57

All: 1822.390+/-0.174 χ^2/NDF : 21074857.8/100

diff_cav4bX_mean vs Slug, Sign Corrected



Right In: 0.013 ± 0.017 $\chi^2/\text{NDF}: 32.1/27$

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

Right Out: -0.003 ± 0.016 $\chi^2/\text{NDF}: 33.2/32$

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

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

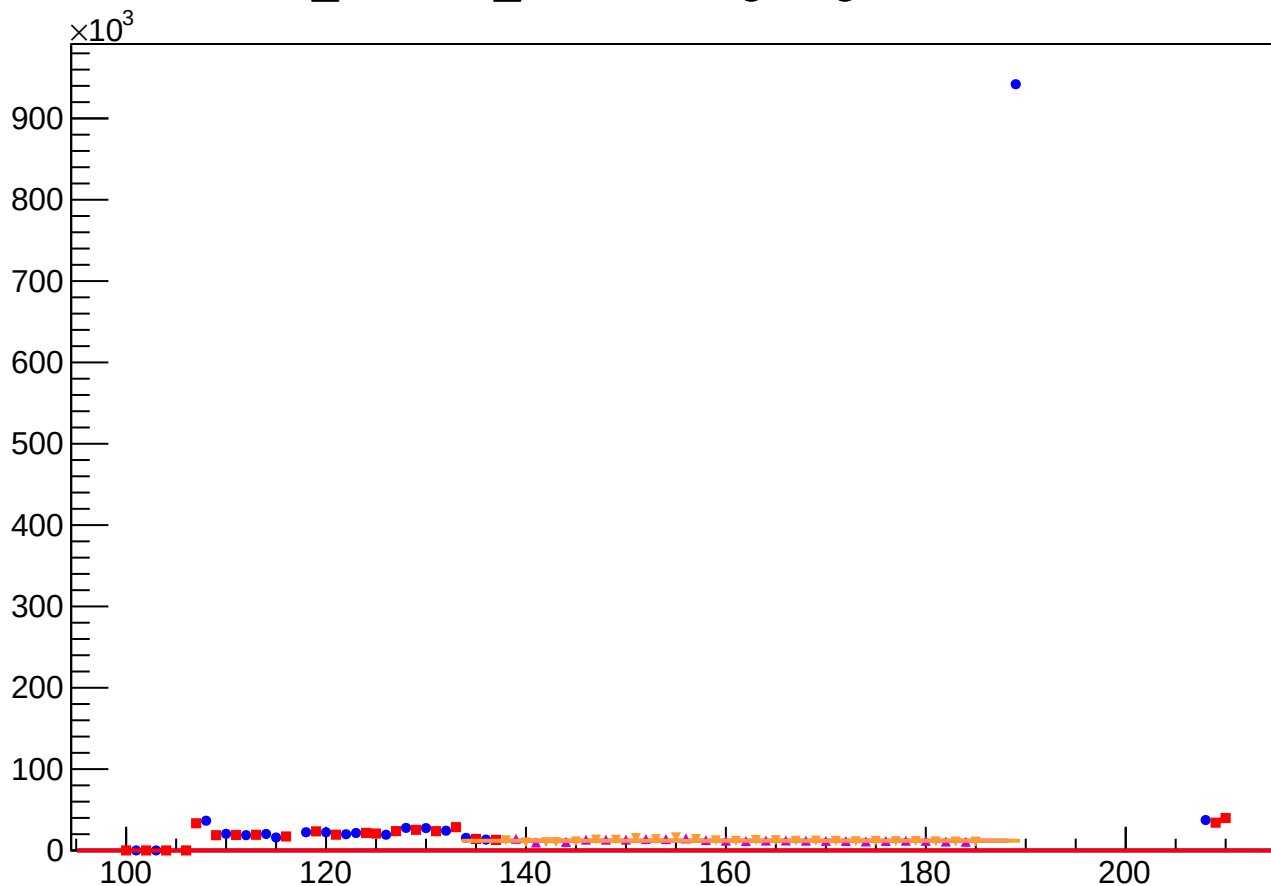
Right: 0.004 ± 0.012 $\chi^2/\text{NDF}: 65.8/60$

In: 0.013 ± 0.017 $\chi^2/\text{NDF}: 61.1/50$

Out: -0.004 ± 0.016 $\chi^2/\text{NDF}: 115.0/57$

All: 0.004 ± 0.012 $\chi^2/\text{NDF}: 176.6/108$

diff_cav4bX_rms vs Slug, Sign Corrected



Right In: 18.646+/-0.012 χ^2 /NDF: 12285558.7/18

Left Out: 11910.325+/-1.980 χ^2 /NDF: 476504.3/24

Right Out: 18.321+/-0.011 χ^2 /NDF: 13902290.1/20

Left In: 12064.761+/-2.062 χ^2 /NDF: 368452.5/22

Left: 11984.403+/-1.428 χ^2 /NDF: 847874.4/47

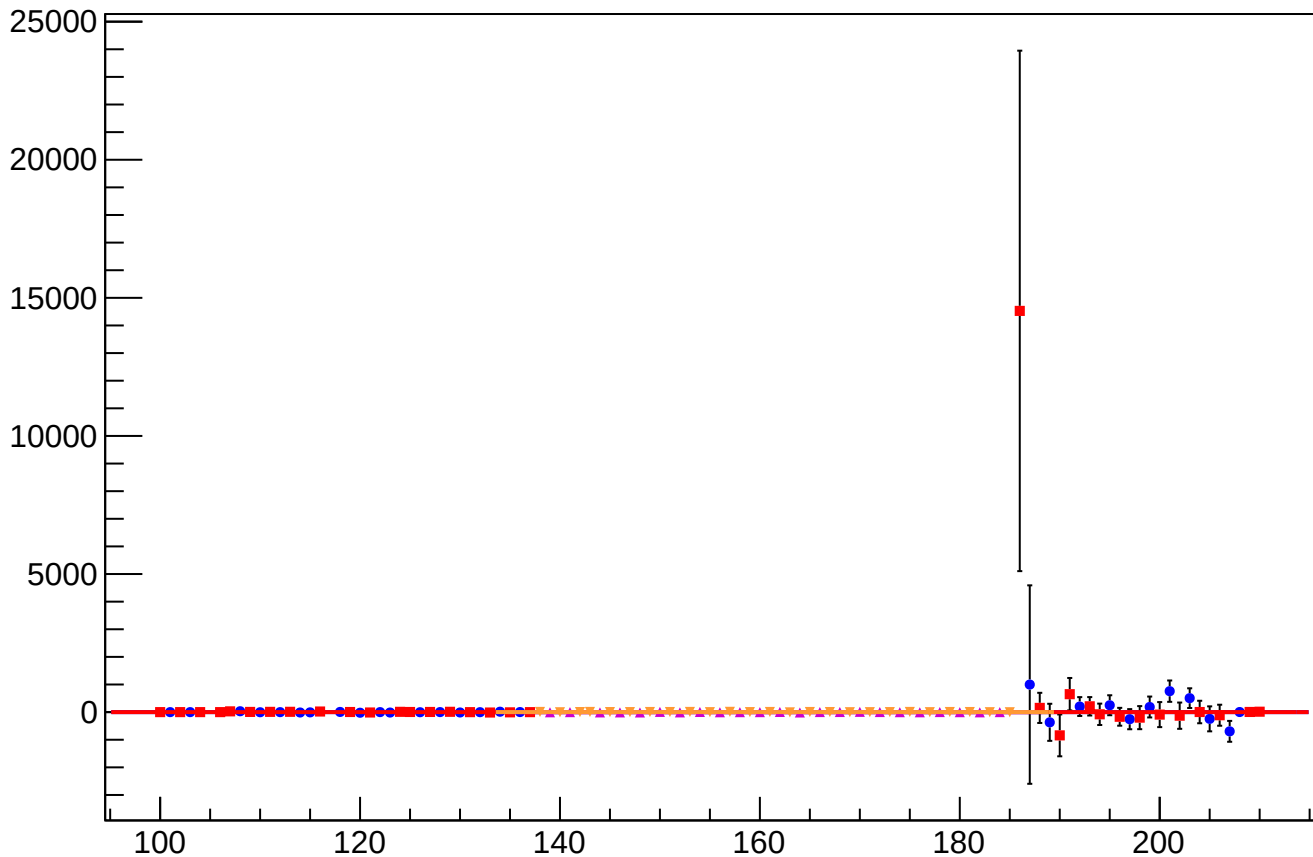
Right: 18.471+/-0.008 χ^2 /NDF: 26188226.5/39

In: 19.071+/-0.012 χ^2 /NDF: 46767850.7/41

Out: 18.713+/-0.011 χ^2 /NDF: 50444075.4/45

All: 18.879+/-0.008 χ^2 /NDF: 97212386.3/87

diff_cav4bY_mean vs Slug, Sign Corrected



Right In: 0.001 ± 0.009 χ^2/NDF : 24.6/27

Left Out: 1.649 ± 1.022 χ^2/NDF : 18.4/24

Right Out: -0.014 ± 0.009 χ^2/NDF : 29.3/32

Left In: -0.939 ± 1.049 χ^2/NDF : 35.6/22

Left: 0.388 ± 0.732 χ^2/NDF : 57.1/47

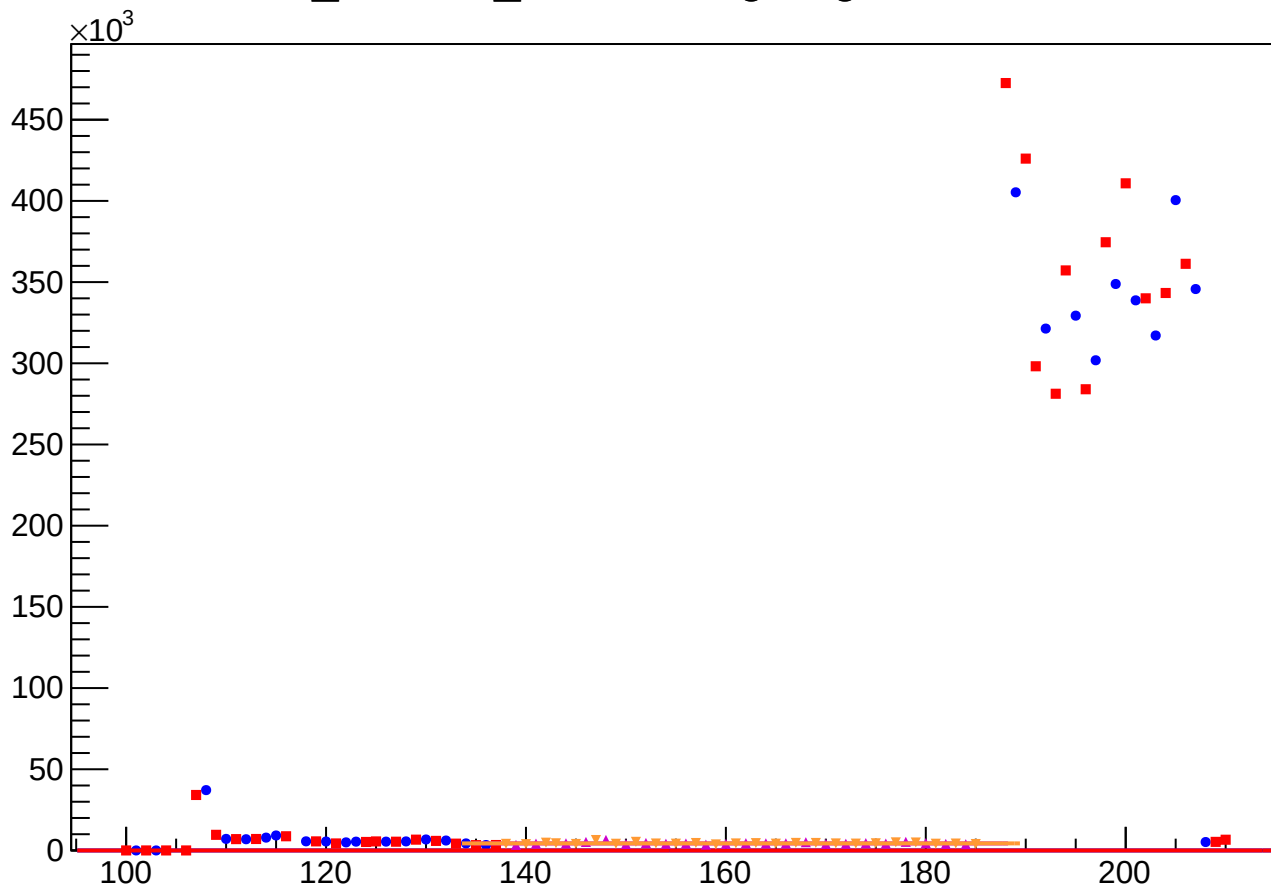
Right: -0.007 ± 0.006 χ^2/NDF : 55.3/60

In: 0.001 ± 0.009 χ^2/NDF : 61.0/50

Out: -0.014 ± 0.009 χ^2/NDF : 50.3/57

All: -0.007 ± 0.006 χ^2/NDF : 112.7/108

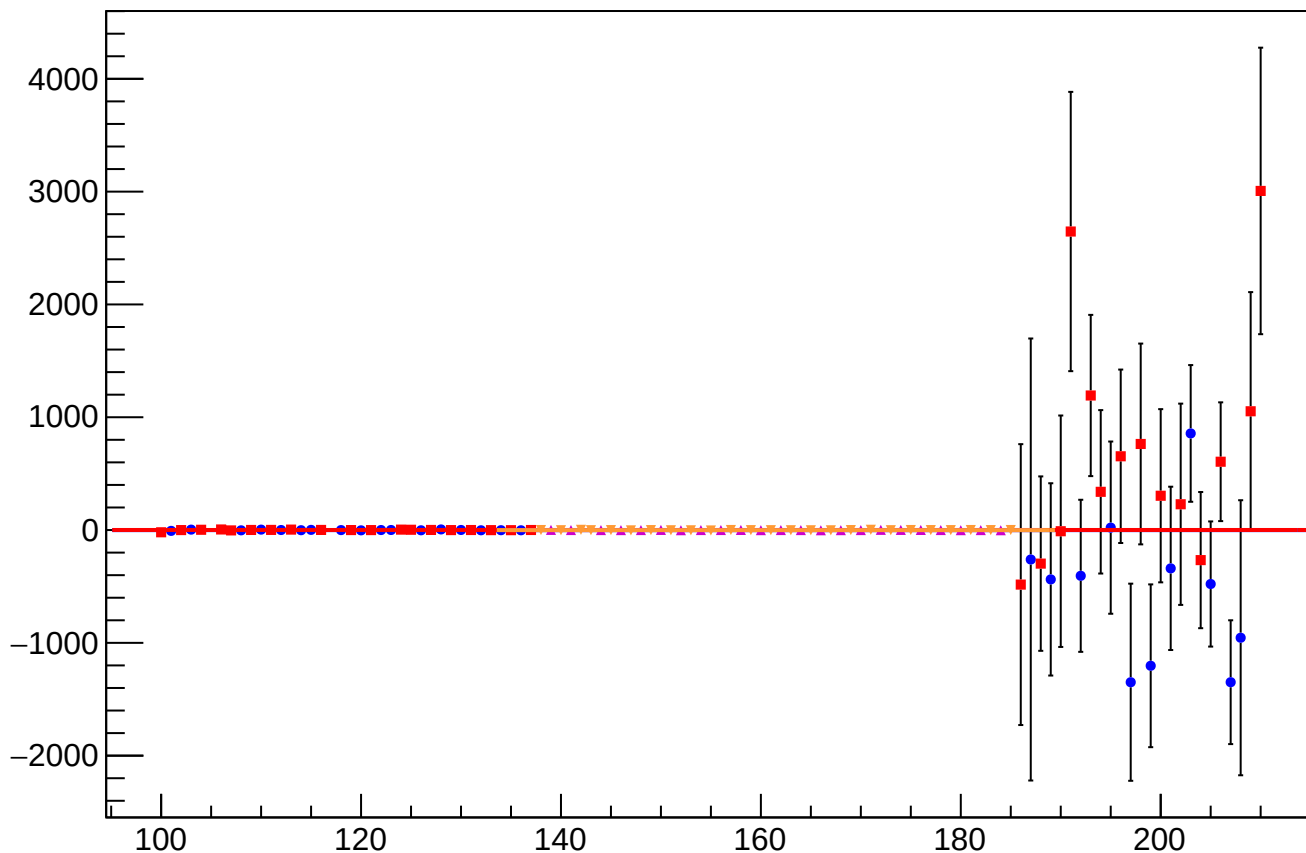
diff_cav4bY_rms vs Slug, Sign Corrected



Right In: 9.950 $\pm$ 0.007 χ^2 /NDF: 25796458.8/26
 Left Out: 4349.005 $\pm$ 0.723 χ^2 /NDF:383895.7/24
 Right Out: 9.874 $\pm$ 0.006 χ^2 /NDF: 28712157.3/31
 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: 9.909 $\pm$ 0.004 χ^2 /NDF: 54508689.0/58
 In: 10.282 $\pm$ 0.007 χ^2 /NDF:60128033.6/49
 Out: 10.184 $\pm$ 0.006 χ^2 /NDF:65141008.4/56
 All: 10.230 $\pm$ 0.004 χ^2 /NDF: 125269161.1/10

diff_cav4cX_mean vs Slug, Sign Corrected



Right In: -0.716 $\pm$ 0.483 χ^2/NDF : 38.1/27

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

Right Out: 0.641 $\pm$ 0.501 χ^2/NDF : 30.7/32

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

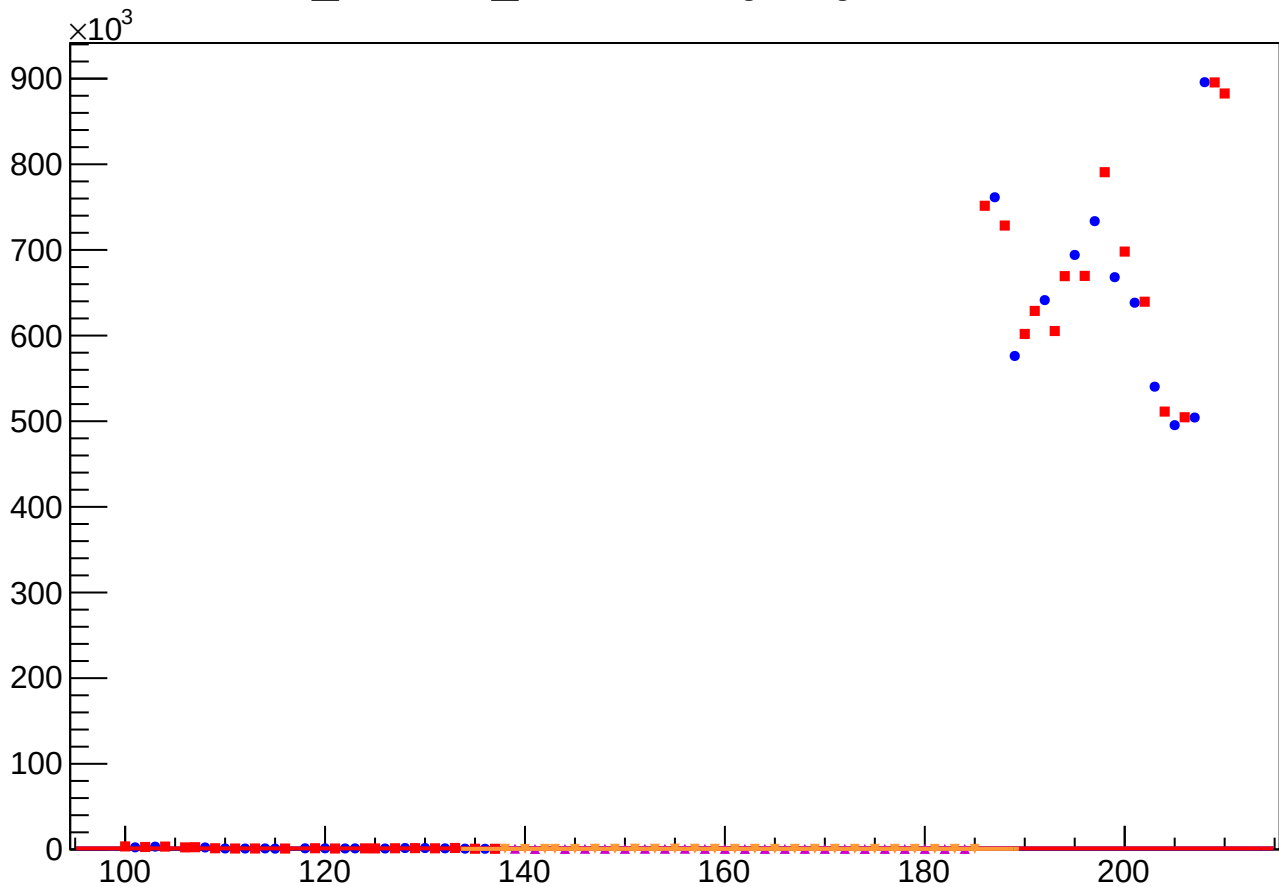
Right: -0.063 $\pm$ 0.348 χ^2/NDF : 72.6/60

In: -0.063 $\pm$ 0.161 χ^2/NDF : 69.6/50

Out: -0.637 $\pm$ 0.156 χ^2/NDF : 96.4/57

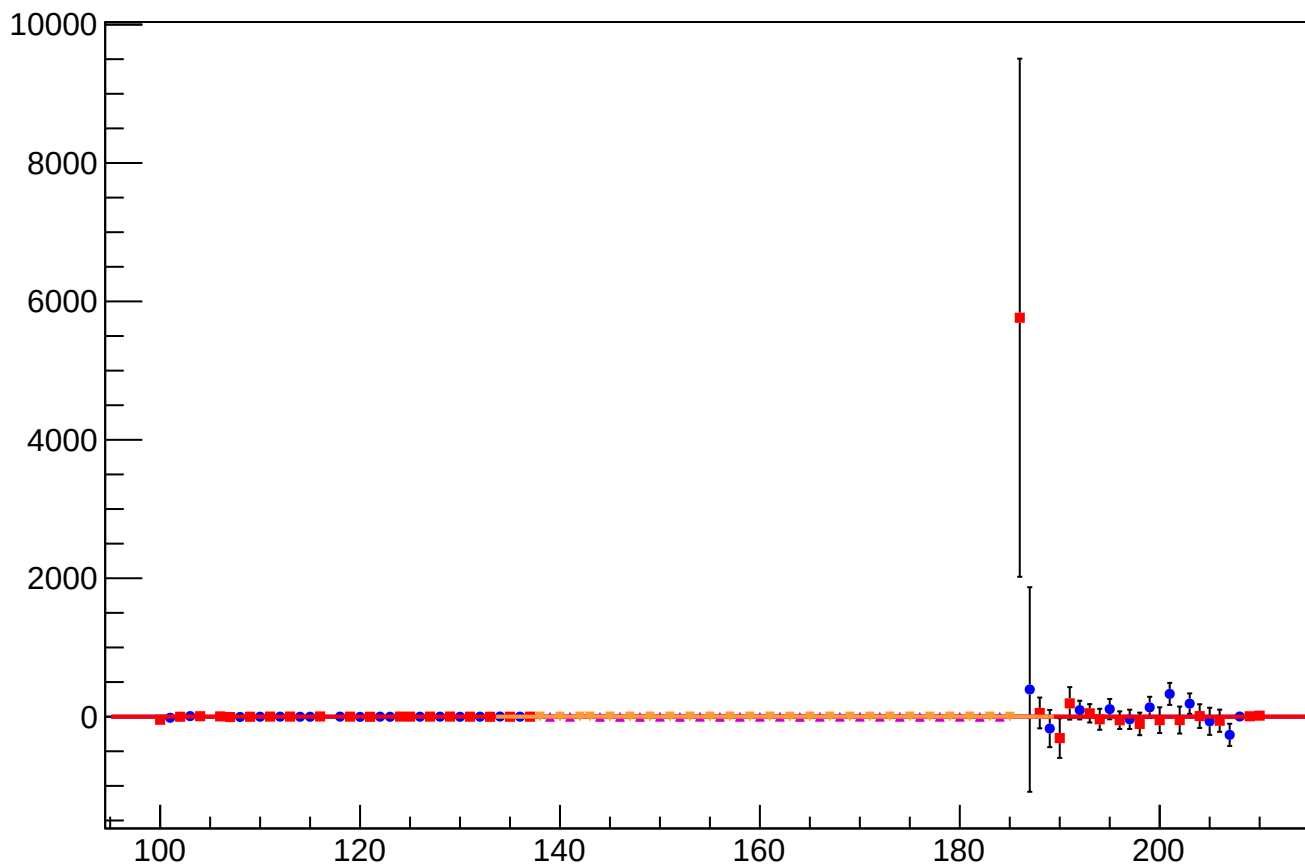
All: -0.359 $\pm$ 0.112 χ^2/NDF : 172.6/108

diff_cav4cX_rms vs Slug, Sign Corrected



Right In: 1169.991 ± 0.342 $\chi^2/\text{NDF}: 16670575.5/27$ 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: 1209.110 ± 0.246 $\chi^2/\text{NDF}: 35683704.6/60$
 Right Out: 1251.257 ± 0.355 $\chi^2/\text{NDF}: 18985888.9/32$ In: 758.401 ± 0.114 $\chi^2/\text{NDF}: 18635572.1/50$
 Left In: 706.971 ± 0.121 $\chi^2/\text{NDF}: 332011.4/22$ Out: 754.488 ± 0.111 $\chi^2/\text{NDF}: 21552750.8/57$
 All: 756.387 ± 0.079 $\chi^2/\text{NDF}: 40188930.8/10$

diff_cav4cY_mean vs Slug, Sign Corrected



Right In: -0.052 ± 0.269 χ^2/NDF : 30.4/27

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

Right Out: -0.239 ± 0.264 χ^2/NDF : 32.6/32

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

Left: 0.059 ± 0.088 χ^2/NDF : 57.1/47

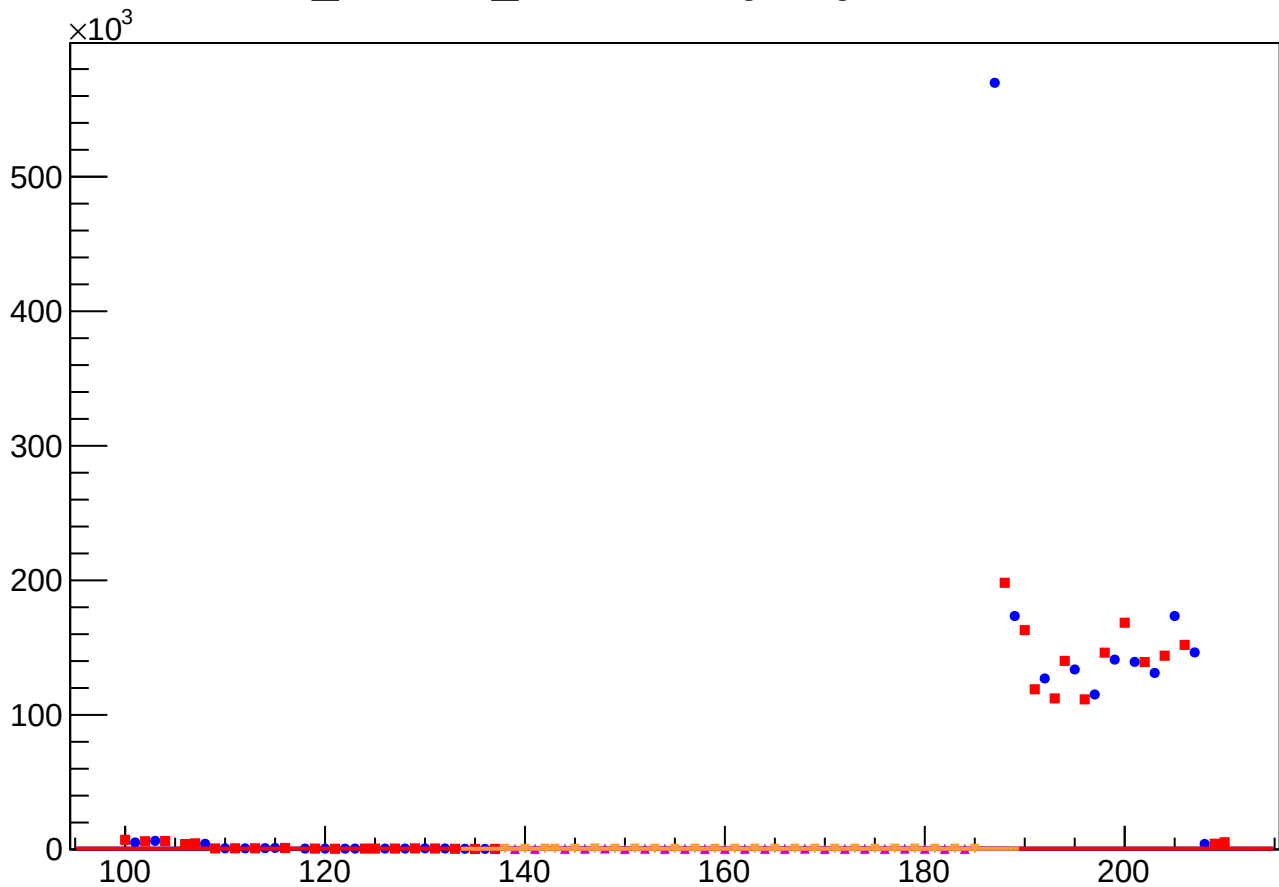
Right: -0.147 ± 0.188 χ^2/NDF : 63.3/60

In: -0.112 ± 0.114 χ^2/NDF : 65.4/50

Out: 0.149 ± 0.111 χ^2/NDF : 53.3/57

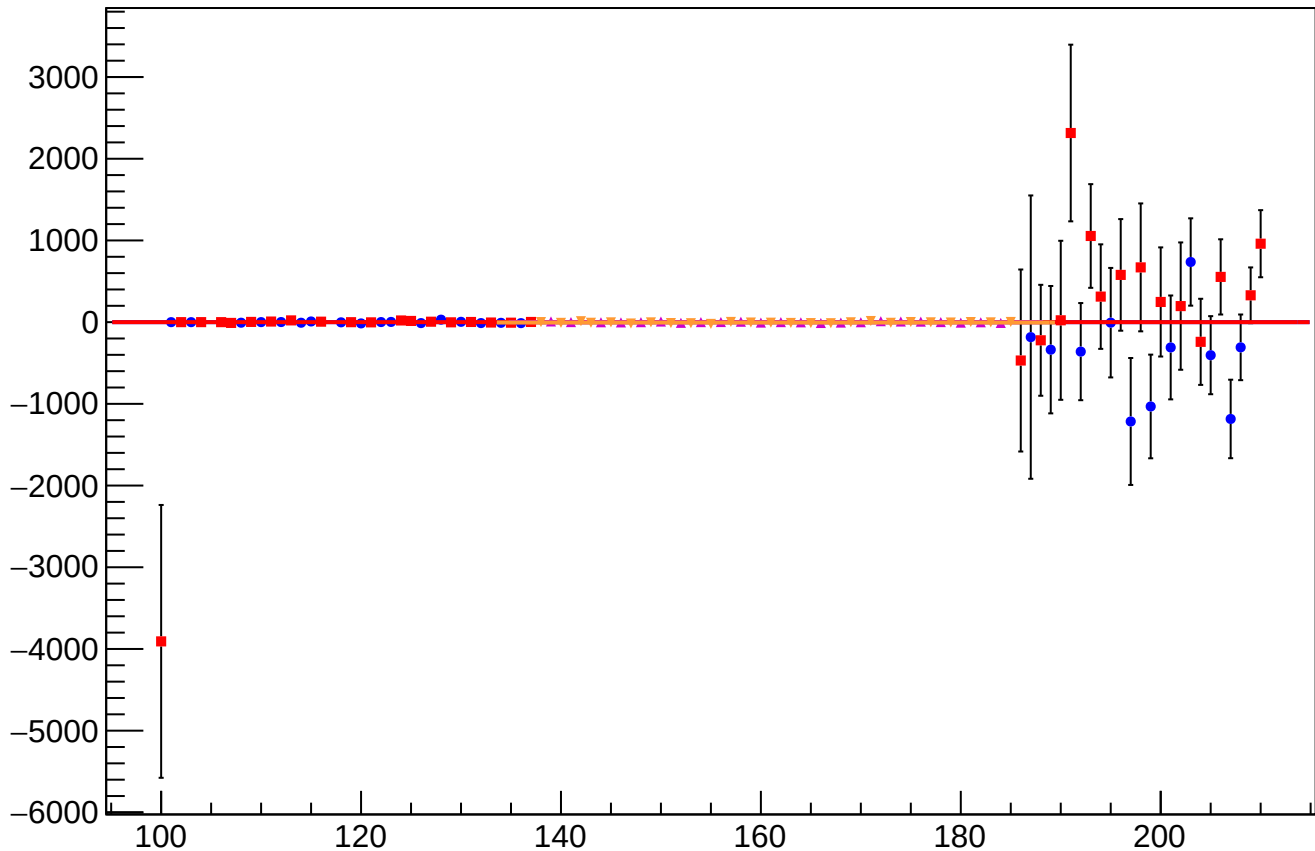
All: 0.022 ± 0.080 χ^2/NDF : 121.4/108

diff_cav4cY_rms vs Slug, Sign Corrected



Right In: 621.651+/-0.190	χ^2/NDF : 17838727.4/27	Left: 521.481+/-0.062	χ^2/NDF : 758275.0/47
Left Out: 522.220+/-0.087	χ^2/NDF : 330405.3/24	Right: 621.061+/-0.133	χ^2/NDF : 38315807.1/59
Right Out: 620.493+/-0.187	χ^2/NDF : 20477060.8/31	In: 538.936+/-0.081	χ^2/NDF : 18497828.1/50
Left In: 520.700+/-0.089	χ^2/NDF : 427720.5/22	Out: 539.673+/-0.079	χ^2/NDF : 21035675.4/56
		All: 539.314+/-0.056	χ^2/NDF : 39533546.4/10

diff_cav4dX_mean vs Slug, Sign Corrected



Right In: -0.022+/-0.021 χ^2/NDF : 31.2/27

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

Right Out: 0.027+/-0.020 χ^2/NDF : 35.0/32

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

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

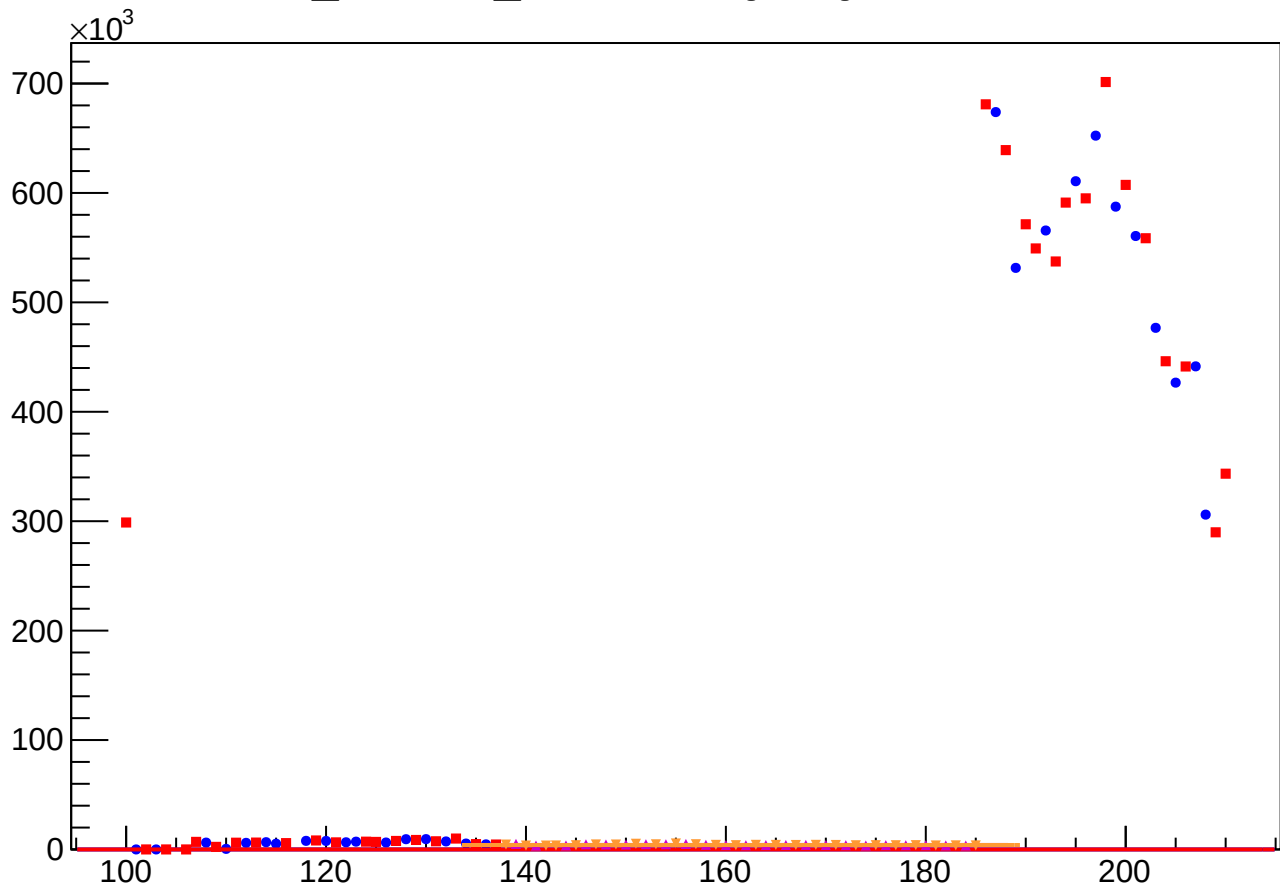
Right: 0.004+/-0.014 χ^2/NDF : 69.0/60

In: -0.022+/-0.021 χ^2/NDF : 60.7/50

Out: 0.025+/-0.020 χ^2/NDF : 115.6/57

All: 0.003+/-0.014 χ^2/NDF : 178.9/108

diff_cav4dX_rms vs Slug, Sign Corrected



Right In: 17.346+/-0.015 χ^2/NDF : 25876768.5/27

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

Right Out: 17.275+/-0.014 χ^2/NDF : 29531305.3/32

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

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

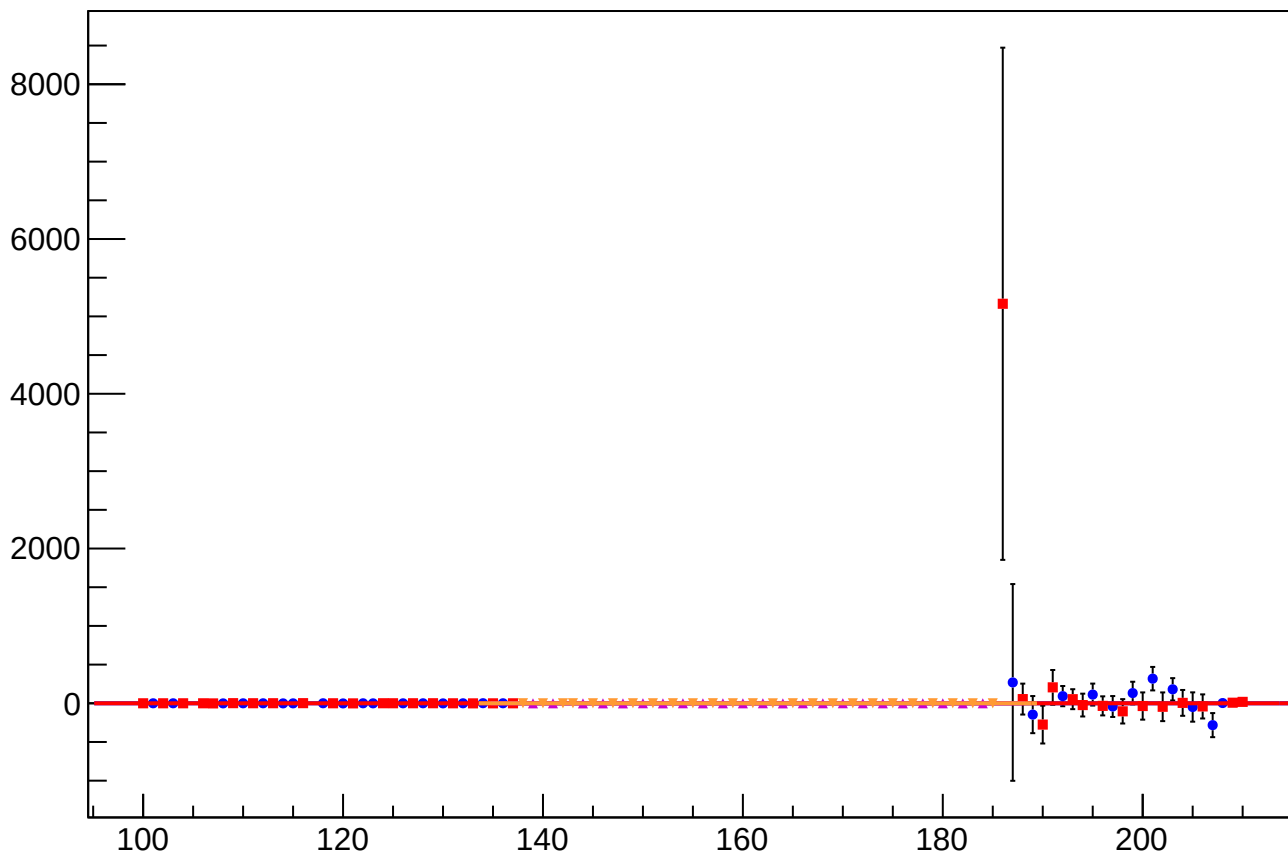
Right: 17.308+/-0.010 χ^2/NDF : 55408086.1/60

In: 19.138+/-0.015 χ^2/NDF : 60179195.4/50

Out: 19.007+/-0.014 χ^2/NDF : 65884234.2/57

All: 19.069+/-0.010 χ^2/NDF : 126063471.4/107

diff_cav4dY_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.002 χ^2 /NDF: 25.6/27

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

Right Out: -0.001 $\pm$ 0.002 χ^2 /NDF: 31.2/32

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

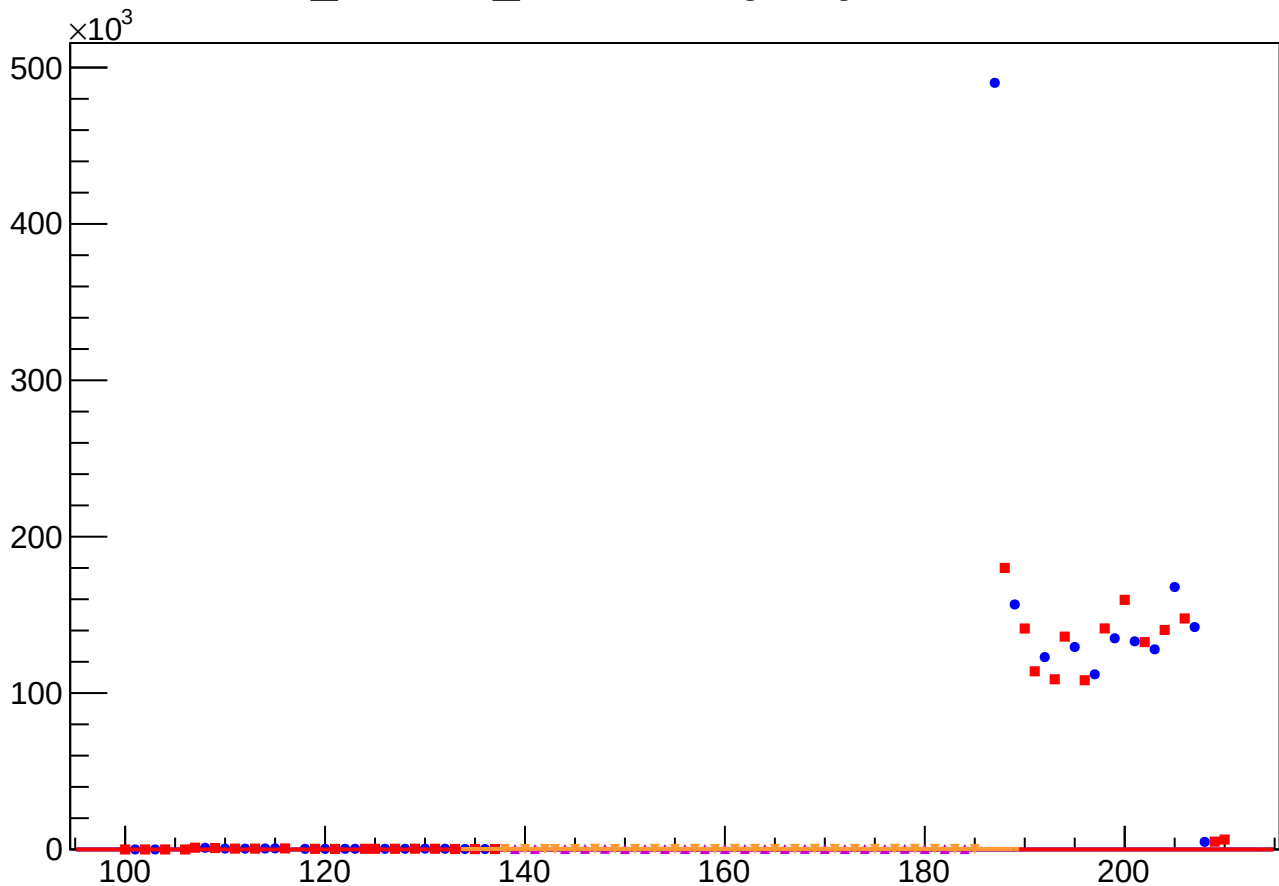
Right: -0.000 $\pm$ 0.001 χ^2 /NDF: 57.0/60

In: 0.000 $\pm$ 0.002 χ^2 /NDF:61.3/50

Out: -0.001 $\pm$ 0.002 χ^2 /NDF:52.3/57

All: -0.000 $\pm$ 0.001 χ^2 /NDF: 113.7/108

diff_cav4dY_rms vs Slug, Sign Corrected



Right In: 1.700 $\pm$ 0.001 χ^2 /NDF: 26180565.0/27

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

Right Out: 1.729 $\pm$ 0.001 χ^2 /NDF: 28482166.4/31

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

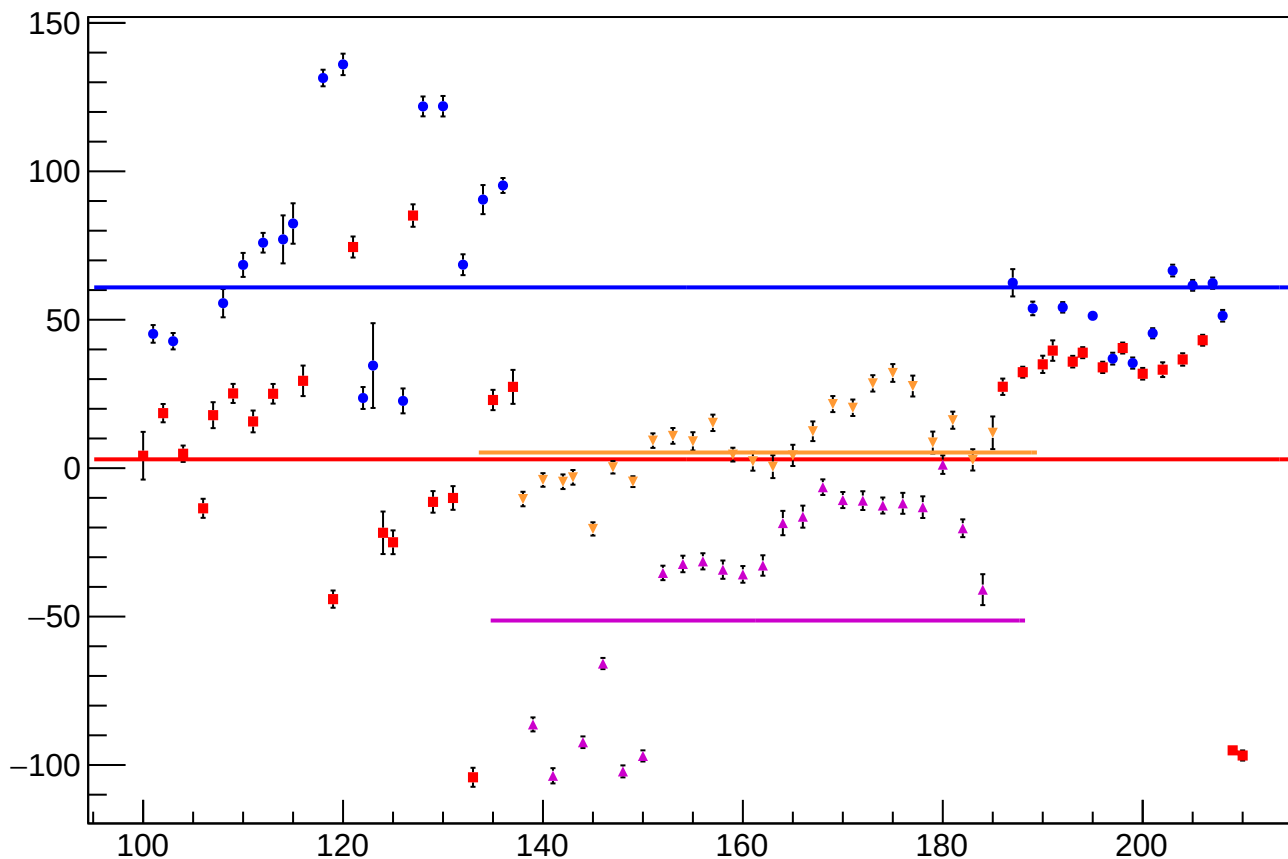
Right: 1.715 $\pm$ 0.001 χ^2 /NDF: 54662955.3/59

In: 1.913 $\pm$ 0.001 χ^2 /NDF:60322578.8/50

Out: 1.938 $\pm$ 0.001 χ^2 /NDF:64689445.9/56

All: 1.926 $\pm$ 0.001 χ^2 /NDF: 125012176.7/107

diff_bpm0i01X_mean vs Slug, Sign Corrected



Right In: 60.903 $\pm$ 0.491 χ^2 /NDF: 2739.8/27

Left Out: 5.276 $\pm$ 0.544 χ^2 /NDF: 556.2/24

Right Out: 2.976 $\pm$ 0.447 χ^2 /NDF: 14498.6/32

Left In: -51.328 $\pm$ 0.558 χ^2 /NDF: 4257.8/22

Left: -22.298 $\pm$ 0.390 χ^2 /NDF: 10084.6/47

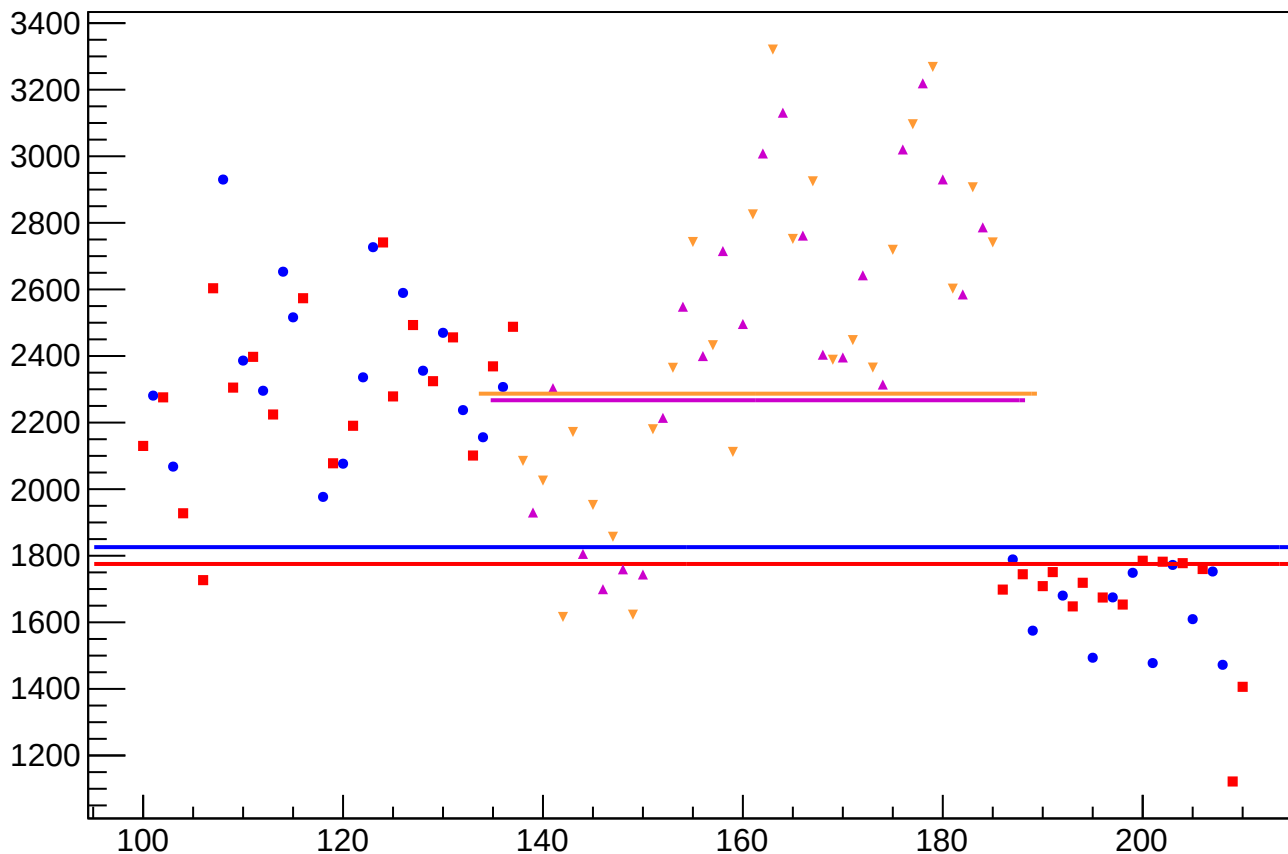
Right: 29.206 $\pm$ 0.330 χ^2 /NDF: 24858.4/60

In: 11.975 $\pm$ 0.369 χ^2 /NDF: 29786.3/50

Out: 3.901 $\pm$ 0.345 χ^2 /NDF: 15065.4/57

All: 7.673 $\pm$ 0.252 χ^2 /NDF: 45107.3/108

diff_bpm0i01X_rms vs Slug, Sign Corrected



Right In: 1825.861 ± 0.347

χ^2/NDF : 958522.2/27

Left: 2277.239 ± 0.276 χ^2/NDF : 2675141.7/47

Right: 1798.195 ± 0.234 χ^2/NDF : 2317829.6/60

Left Out: 2286.871 ± 0.385

χ^2/NDF : 1360490.8/24

In: 2018.220 ± 0.261 χ^2/NDF : 2976365.7/50

Right Out: 1775.300 ± 0.316

χ^2/NDF : 1347696.9/32

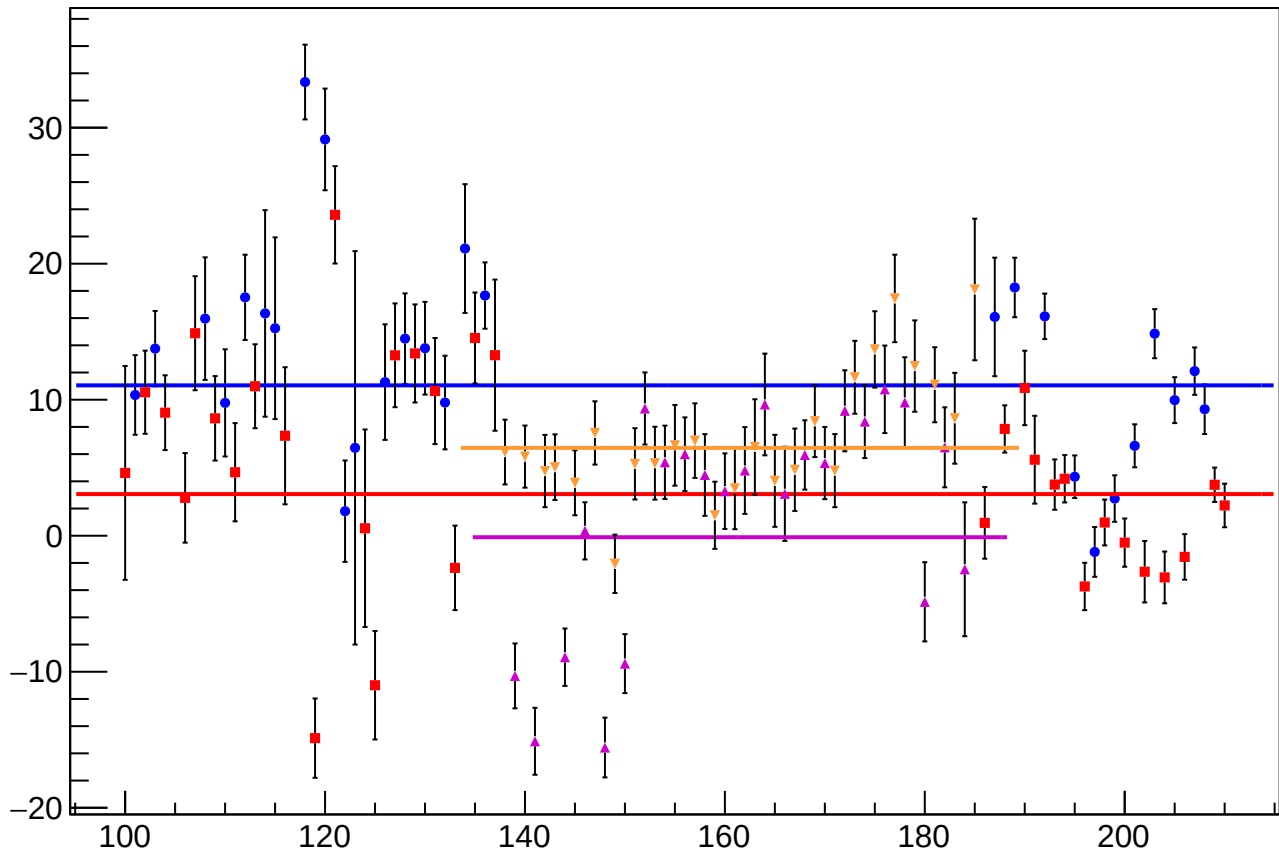
Out: 1981.157 ± 0.244 χ^2/NDF : 3764454.5/57

Left In: 2267.097 ± 0.395

χ^2/NDF : 1313364.4/22

All: 1998.471 ± 0.178 χ^2/NDF : 6751591.1/10

diff_bpm0i01Y_mean vs Slug, Sign Corrected



Right In: 11.056 ± 0.463 $\chi^2/\text{NDF}: 239.0/27$

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

Right Out: 3.061 ± 0.422 $\chi^2/\text{NDF}: 213.4/32$

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

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

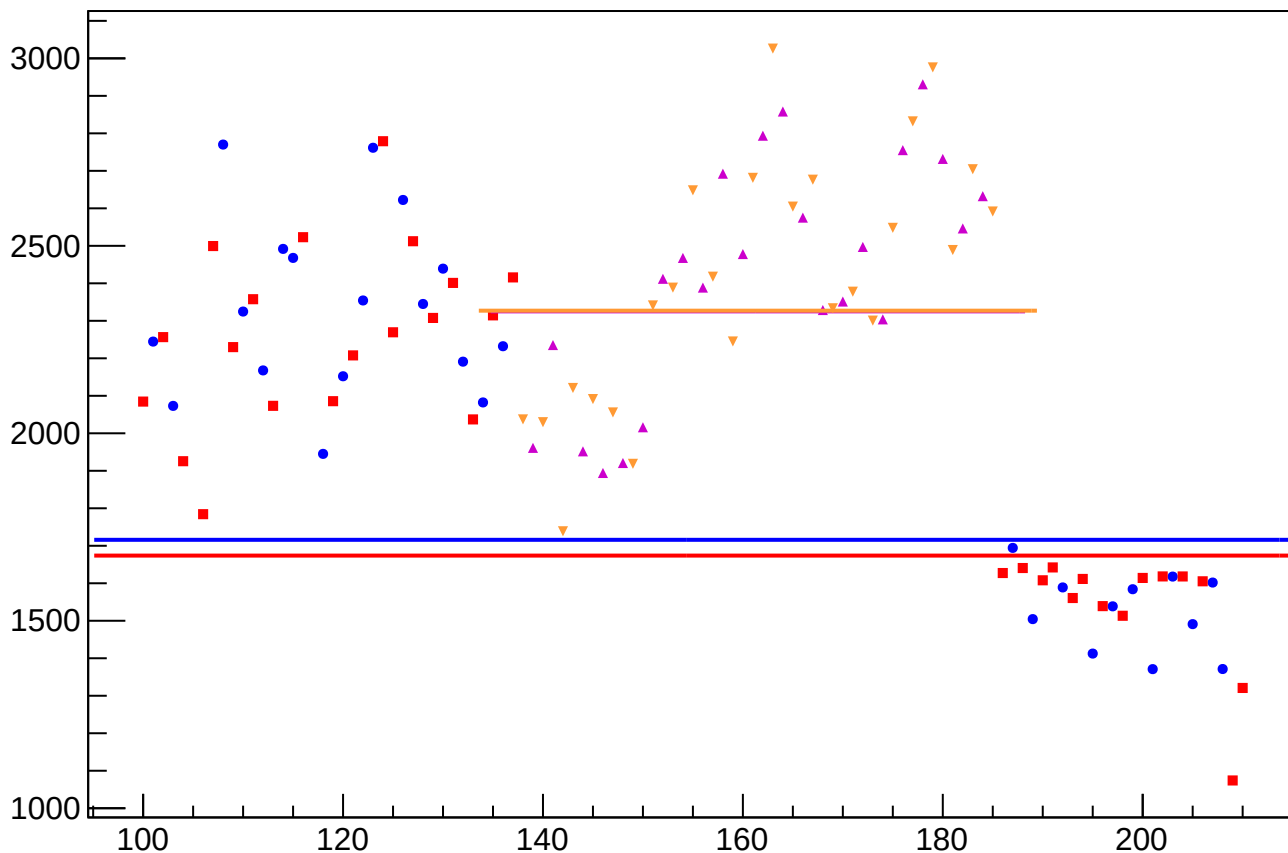
Right: 6.690 ± 0.312 $\chi^2/\text{NDF}: 615.3/60$

In: 6.573 ± 0.358 $\chi^2/\text{NDF}: 707.2/50$

Out: 4.327 ± 0.334 $\chi^2/\text{NDF}: 296.3/57$

All: 5.373 ± 0.244 $\chi^2/\text{NDF}: 1024.6/108$

diff_bpm0i01Y_rms vs Slug, Sign Corrected



Right In: 1715.893 ± 0.327

χ^2/NDF : $1198871.8/27$

Left: 2326.139 ± 0.278 χ^2/NDF : $1257447.2/47$

Right: 1692.926 ± 0.220 χ^2/NDF : $2747693.8/60$

Left Out: 2327.044 ± 0.387

χ^2/NDF : $646706.7/24$

In: 1960.469 ± 0.253 χ^2/NDF : $3201009.2/50$

Right Out: 1673.830 ± 0.298

χ^2/NDF : $1539801.6/32$

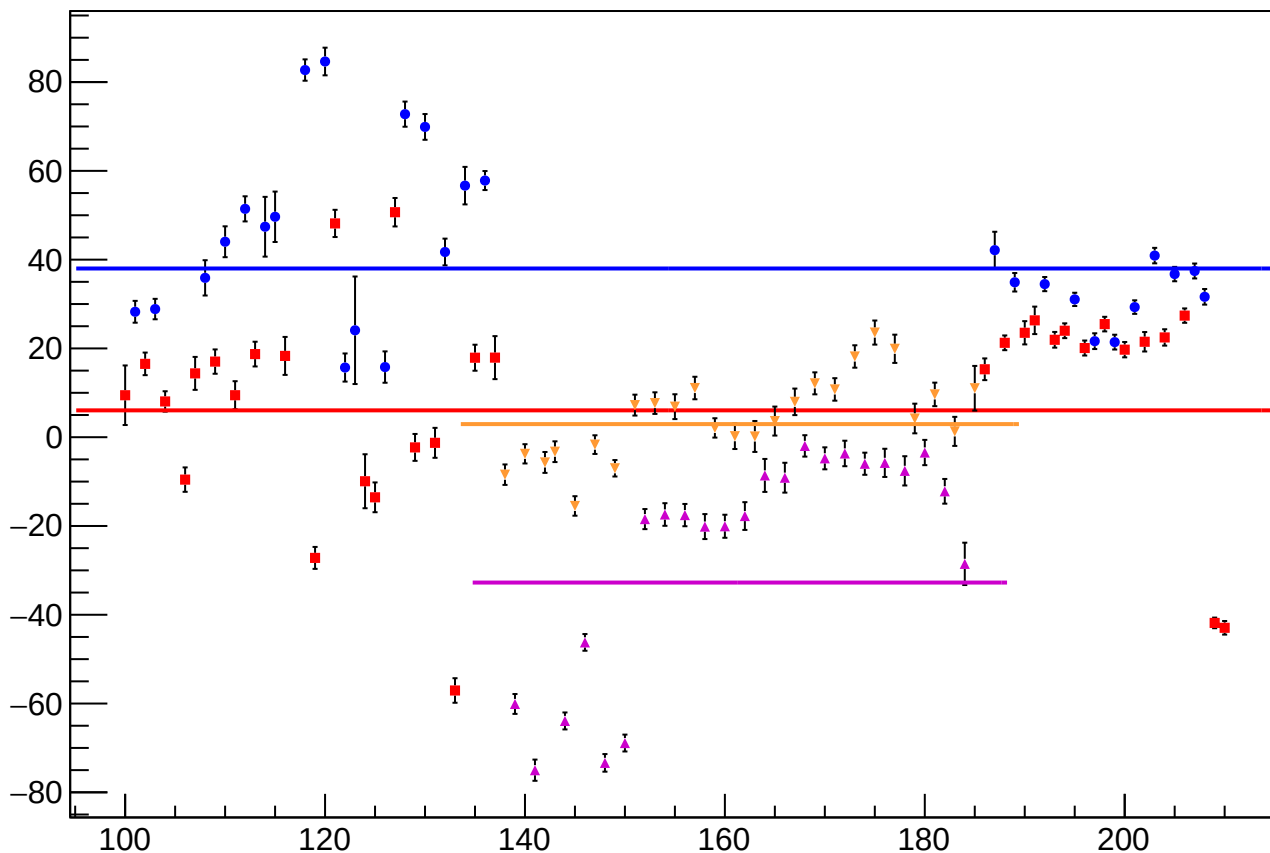
Out: 1917.244 ± 0.236 χ^2/NDF : $3972150.5/57$

Left In: 2325.175 ± 0.400

χ^2/NDF : $610729.2/22$

All: 1937.372 ± 0.173 χ^2/NDF : $7188733.7/10$

diff_bpm0i01aX_mean vs Slug, Sign Corrected



Right In: 38.006 ± 0.431 $\chi^2/\text{NDF}: 1364.2/27$

Left Out: 2.952 ± 0.512 $\chi^2/\text{NDF}: 337.8/24$

Right Out: 6.047 ± 0.393 $\chi^2/\text{NDF}: 4834.0/32$

Left In: -32.745 ± 0.526 $\chi^2/\text{NDF}: 2632.5/22$

Left: -14.409 ± 0.367 $\chi^2/\text{NDF}: 5335.1/47$

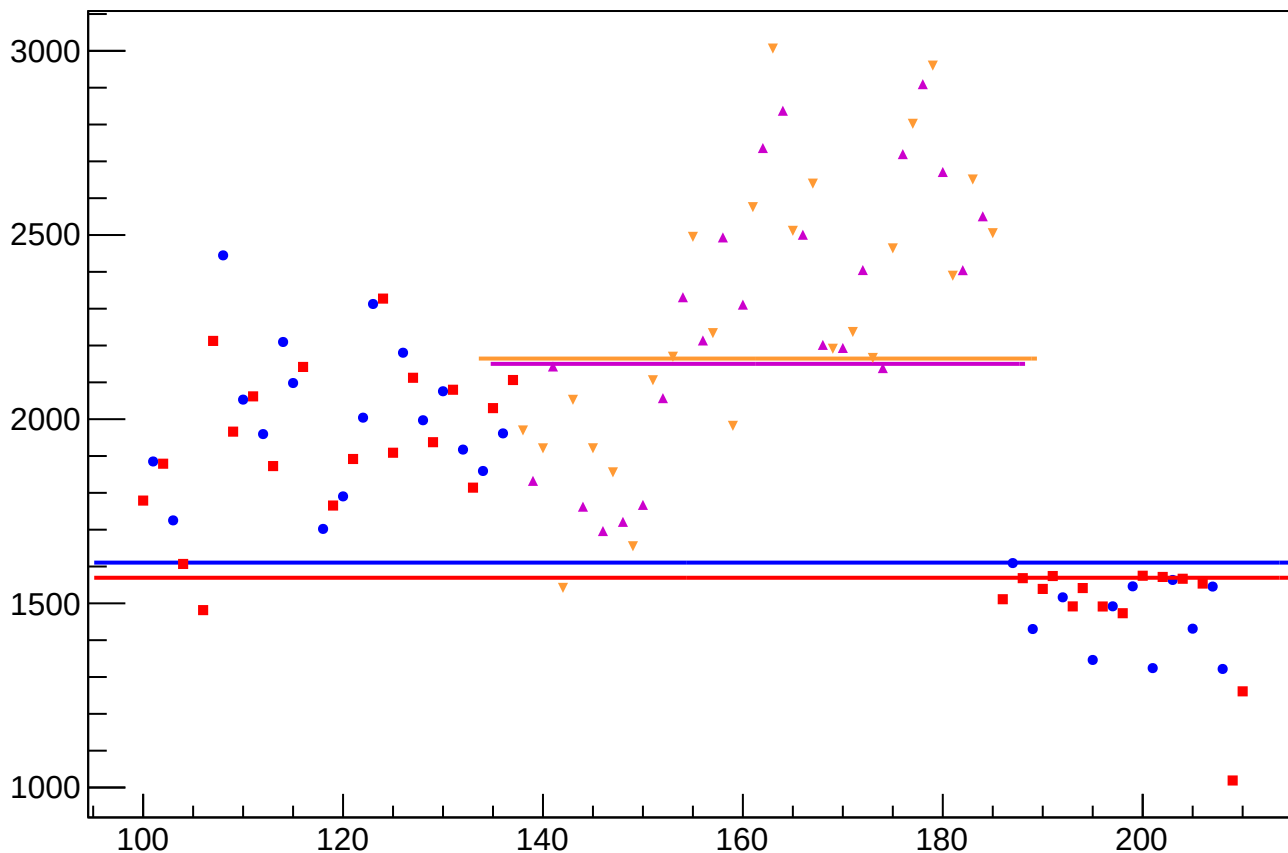
Right: 20.556 ± 0.290 $\chi^2/\text{NDF}: 9201.8/60$

In: 9.602 ± 0.333 $\chi^2/\text{NDF}: 14820.6/50$

Out: 4.899 ± 0.312 $\chi^2/\text{NDF}: 5194.8/57$

All: 7.093 ± 0.228 $\chi^2/\text{NDF}: 20121.6/108$

diff_bpm0i01aX_rms vs Slug, Sign Corrected



Right In: 1610.595 $\pm$ 0.305

χ^2/NDF : 729703.8/27

Left: 2157.578 $\pm$ 0.259 χ^2/NDF : 1878220.9/47

Right: 1588.142 $\pm$ 0.205 χ^2/NDF : 1811936.5/60

Left Out: 2164.573 $\pm$ 0.362

χ^2/NDF : 965603.5/24

In: 1827.223 $\pm$ 0.236 χ^2/NDF : 2900721.9/50

Right Out: 1569.471 $\pm$ 0.278

χ^2/NDF : 1072285.6/32

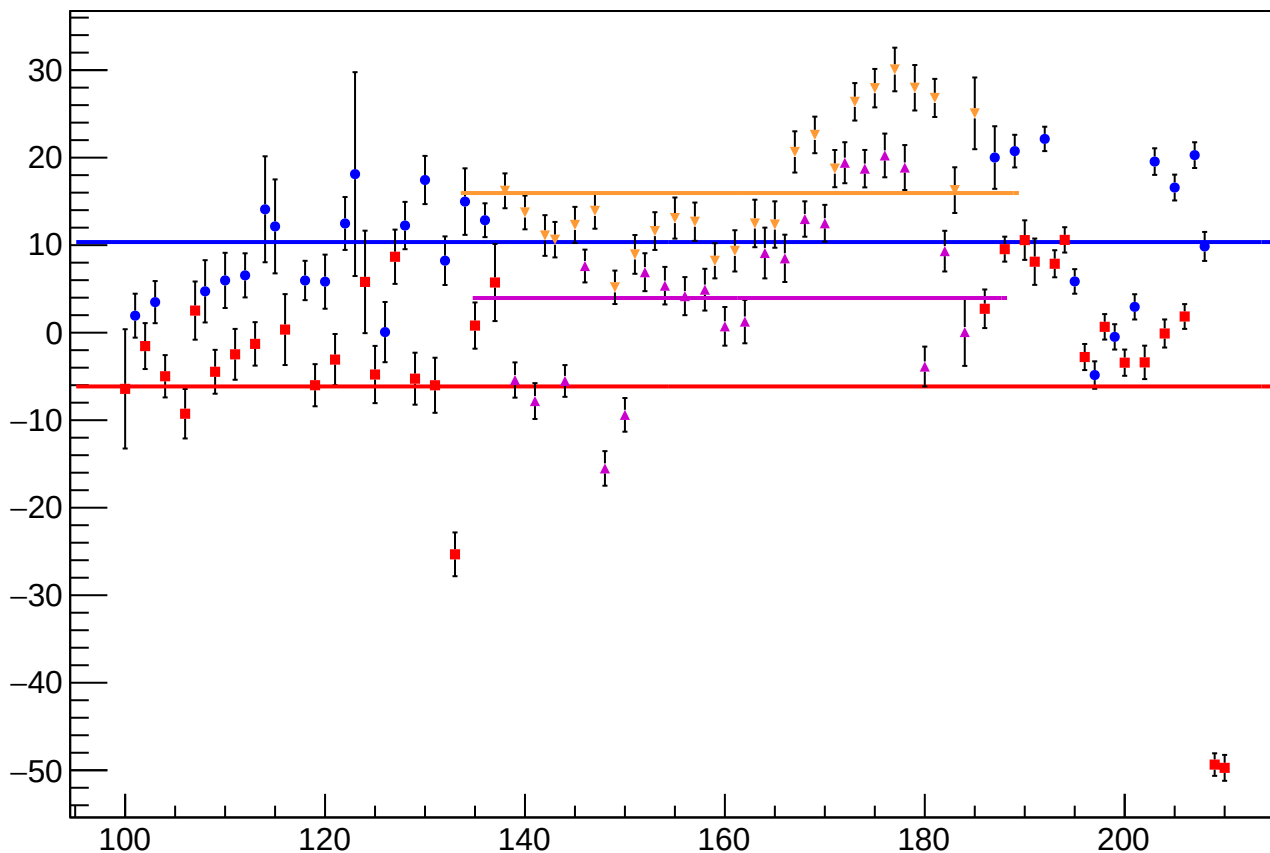
Out: 1790.086 $\pm$ 0.220 χ^2/NDF : 3738660.8/57

Left In: 2150.190 $\pm$ 0.372

χ^2/NDF : 911849.7/22

All: 1807.409 $\pm$ 0.161 χ^2/NDF : 6652626.0/10

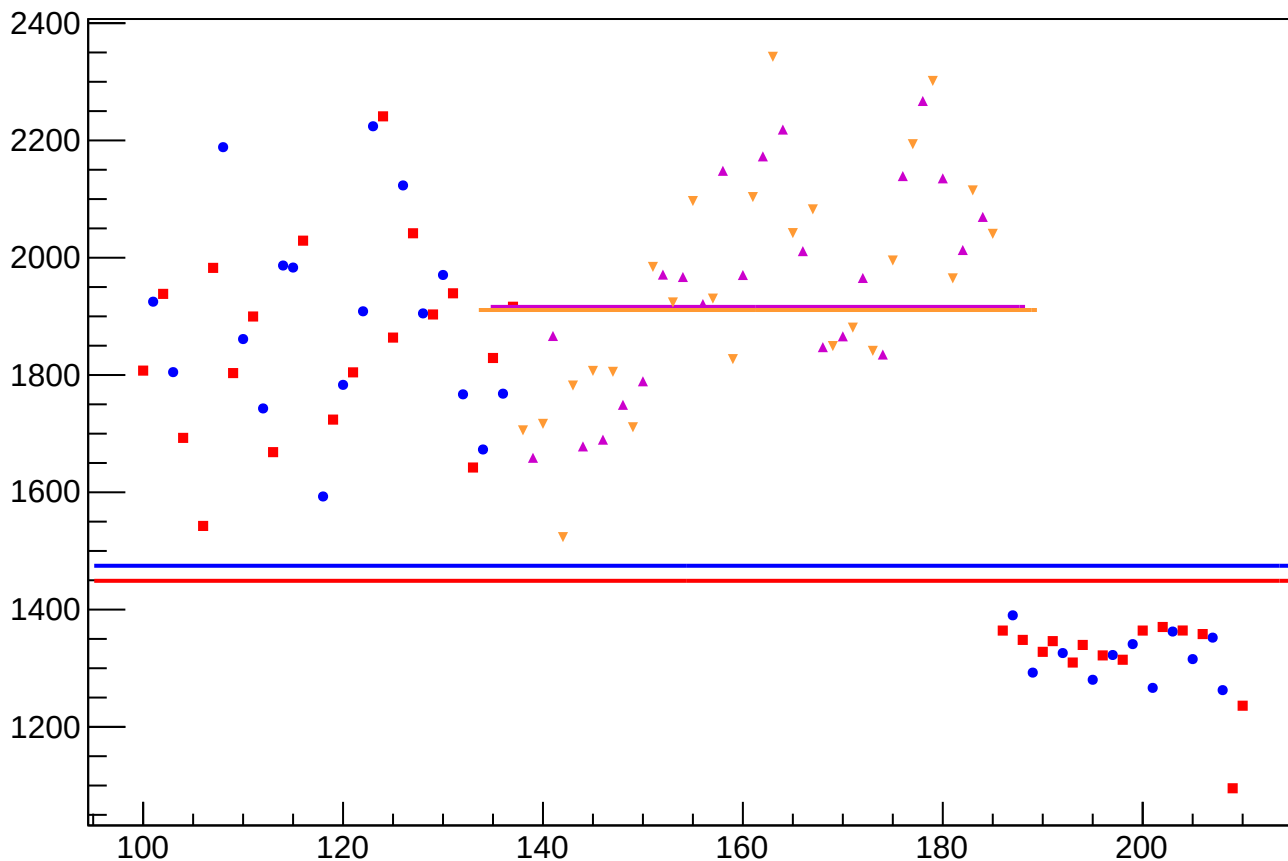
diff_bpm0i01aY_mean vs Slug, Sign Corrected



Right In: 10.355 $\pm$ 0.394 χ^2 /NDF: 449.9/27
 Left Out: 15.956 $\pm$ 0.447 χ^2 /NDF:245.2/24
 Right Out: -6.144 $\pm$ 0.361 χ^2 /NDF: 2627.6/32
 Left In: 3.960 $\pm$ 0.463 χ^2 /NDF:464.9/22

Left: 10.161 $\pm$ 0.322 χ^2 /NDF: 1057.3/47
 Right: 1.396 $\pm$ 0.266 χ^2 /NDF: 4029.9/60
 In: 7.668 $\pm$ 0.300 χ^2 /NDF:1025.5/50
 Out: 2.582 $\pm$ 0.281 χ^2 /NDF:4349.3/57
 All: 4.960 $\pm$ 0.205 χ^2 /NDF: 5527.9/108

diff_bpm0i01aY_rms vs Slug, Sign Corrected



Right In: 1474.737 $\pm$ 0.279 χ^2 /NDF: 842640.5/27

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

Right Out: 1449.087 $\pm$ 0.256 χ^2 /NDF: 959160.7/32

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

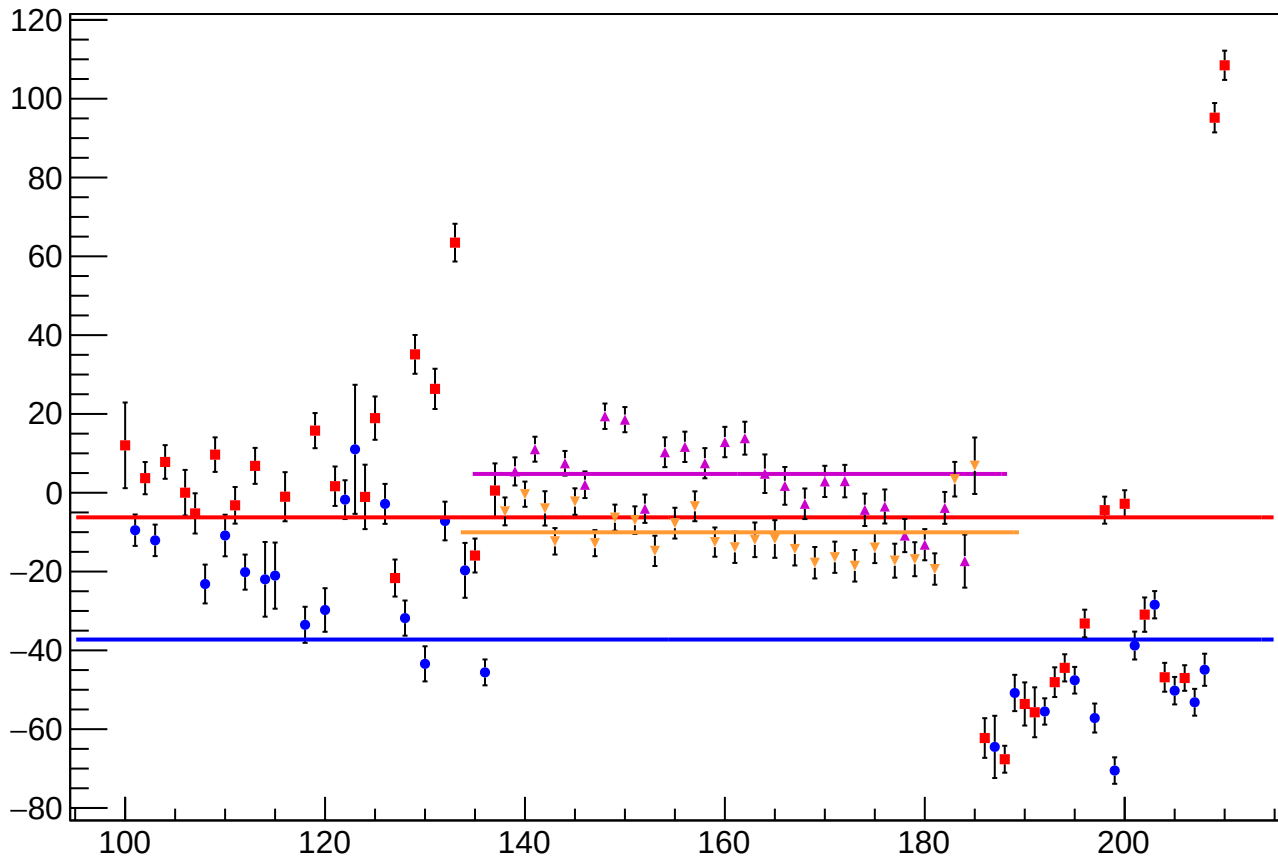
Right: 1460.808 $\pm$ 0.188 χ^2 /NDF: 1806405.3/60

In: 1660.197 $\pm$ 0.212 χ^2 /NDF: 2171848.5/50

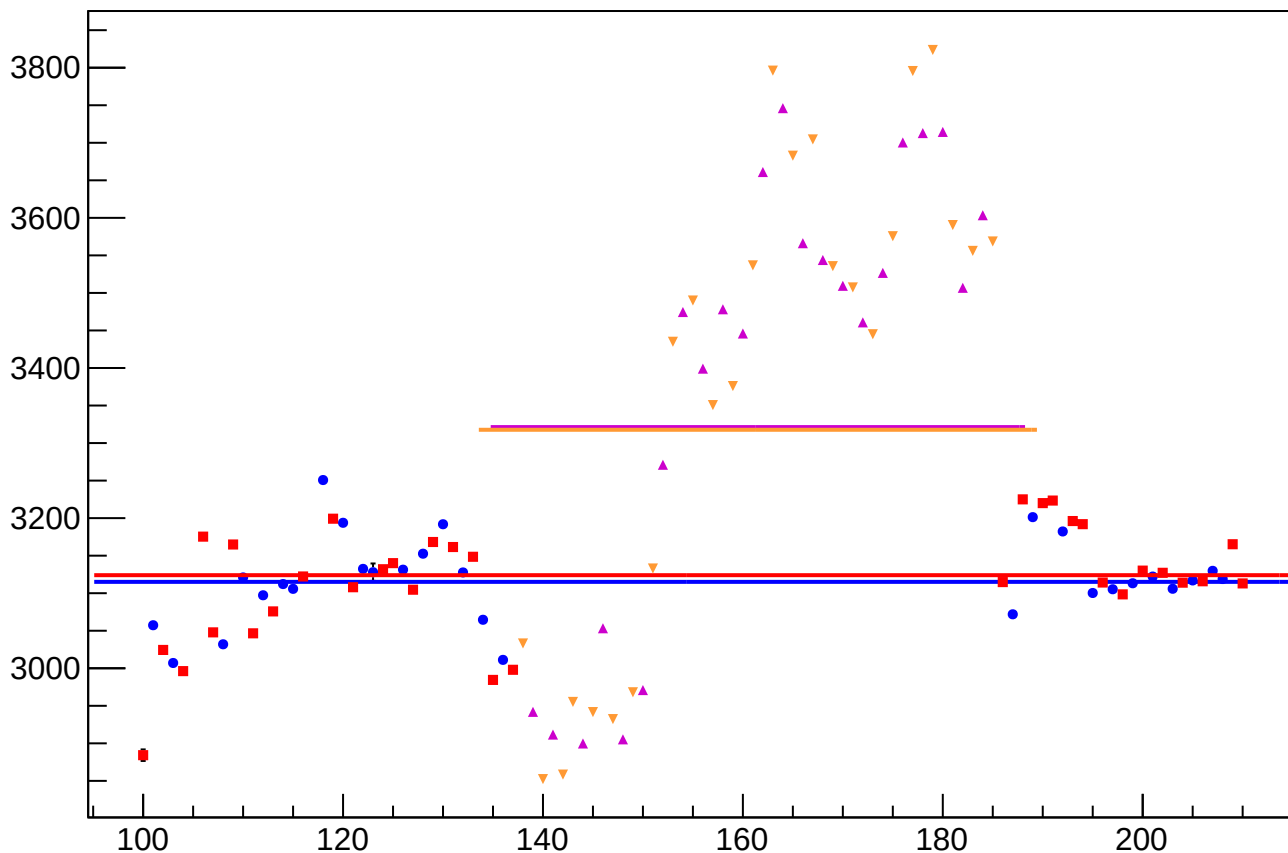
Out: 1631.415 $\pm$ 0.199 χ^2 /NDF: 2577415.5/57

All: 1644.873 $\pm$ 0.145 χ^2 /NDF: 4759065.9/10

diff_bpm0l01X_mean vs Slug, Sign Corrected



diff_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 3115.115 $\pm$ 0.579 χ^2 /NDF: 9233.1/27

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

Right Out: 3124.004 $\pm$ 0.542 χ^2 /NDF: 14035.4/32

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

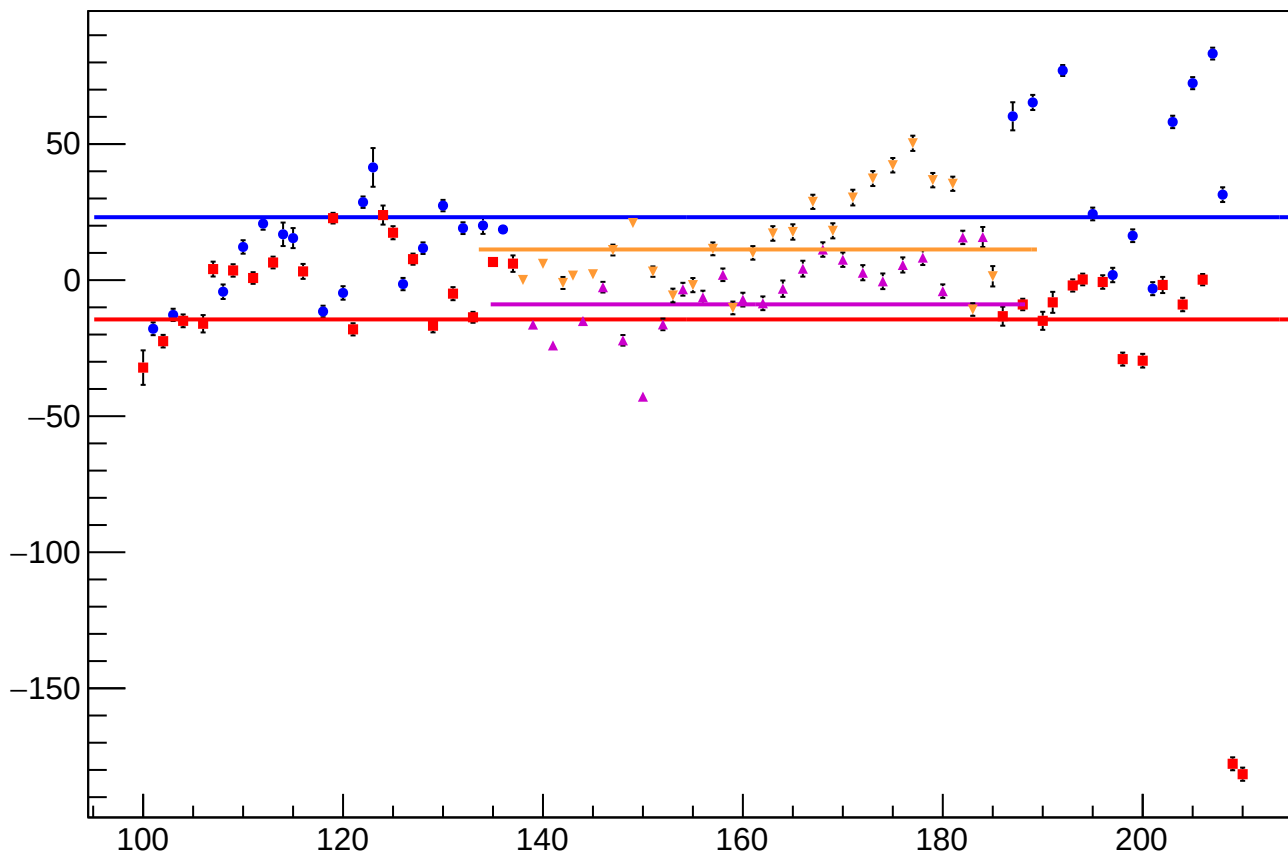
Right: 3119.849 $\pm$ 0.396 χ^2 /NDF: 23394.1/60

In: 3220.485 $\pm$ 0.405 χ^2 /NDF:358424.1/50

Out: 3219.653 $\pm$ 0.386 χ^2 /NDF:413931.6/57

All: 3220.050 $\pm$ 0.279 χ^2 /NDF: 772357.9/108

diff_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: 23.124 $\pm$ 0.446 χ^2 /NDF: 3960.0/27

Left Out: 11.268 $\pm$ 0.454 χ^2 /NDF:1141.8/24

Right Out: -14.440 $\pm$ 0.424 χ^2 /NDF: 11016.0/32

Left In: -8.905 $\pm$ 0.478 χ^2 /NDF:936.3/22

Left: 1.682 $\pm$ 0.329 χ^2 /NDF: 3014.7/47

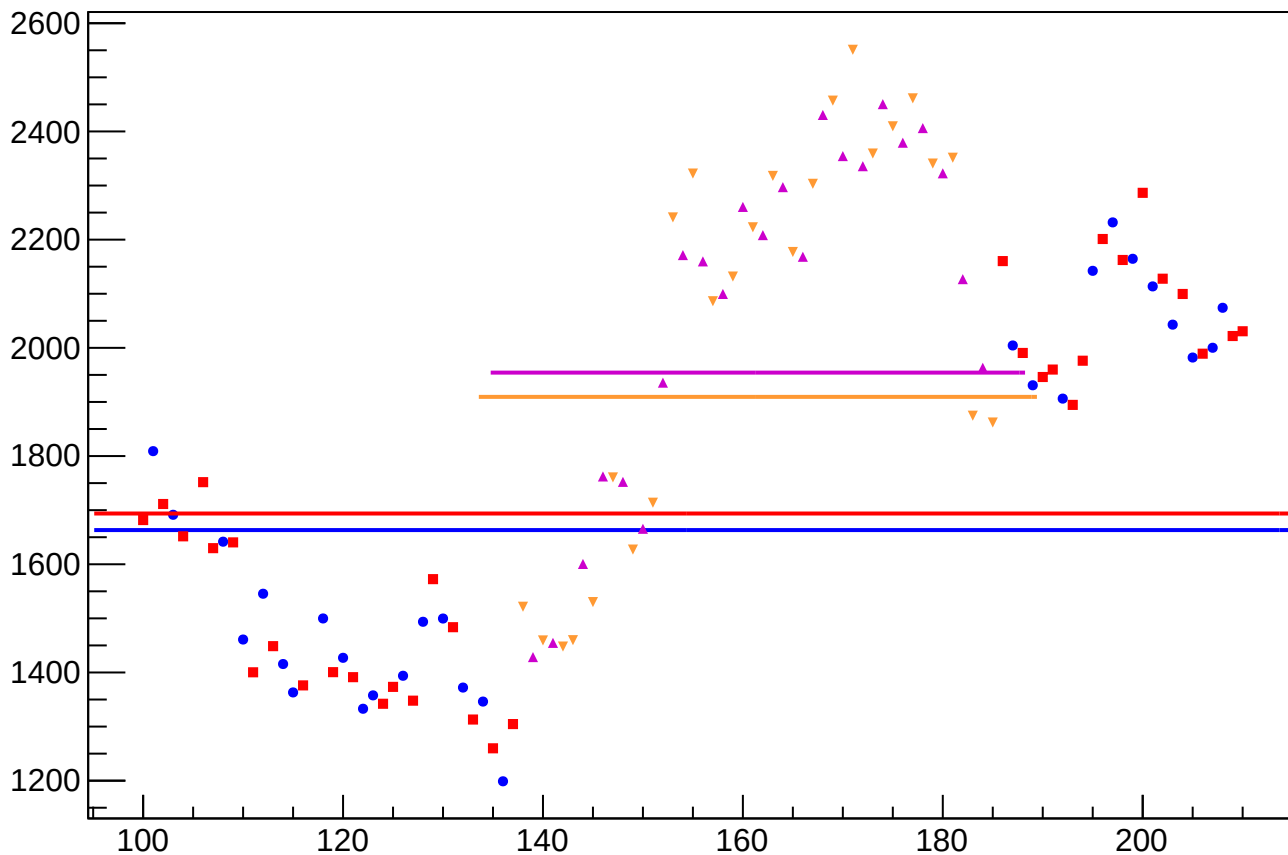
Right: 3.381 $\pm$ 0.307 χ^2 /NDF: 18702.0/60

In: 8.196 $\pm$ 0.326 χ^2 /NDF:7298.4/50

Out: -2.478 $\pm$ 0.310 χ^2 /NDF:13869.4/57

All: 2.590 $\pm$ 0.225 χ^2 /NDF: 21730.9/108

diff_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 1663.198 $\pm$ 0.315 χ^2/NDF : 1076865.8/27

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

Right Out: 1693.816 $\pm$ 0.300 χ^2/NDF : 1158453.1/32

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

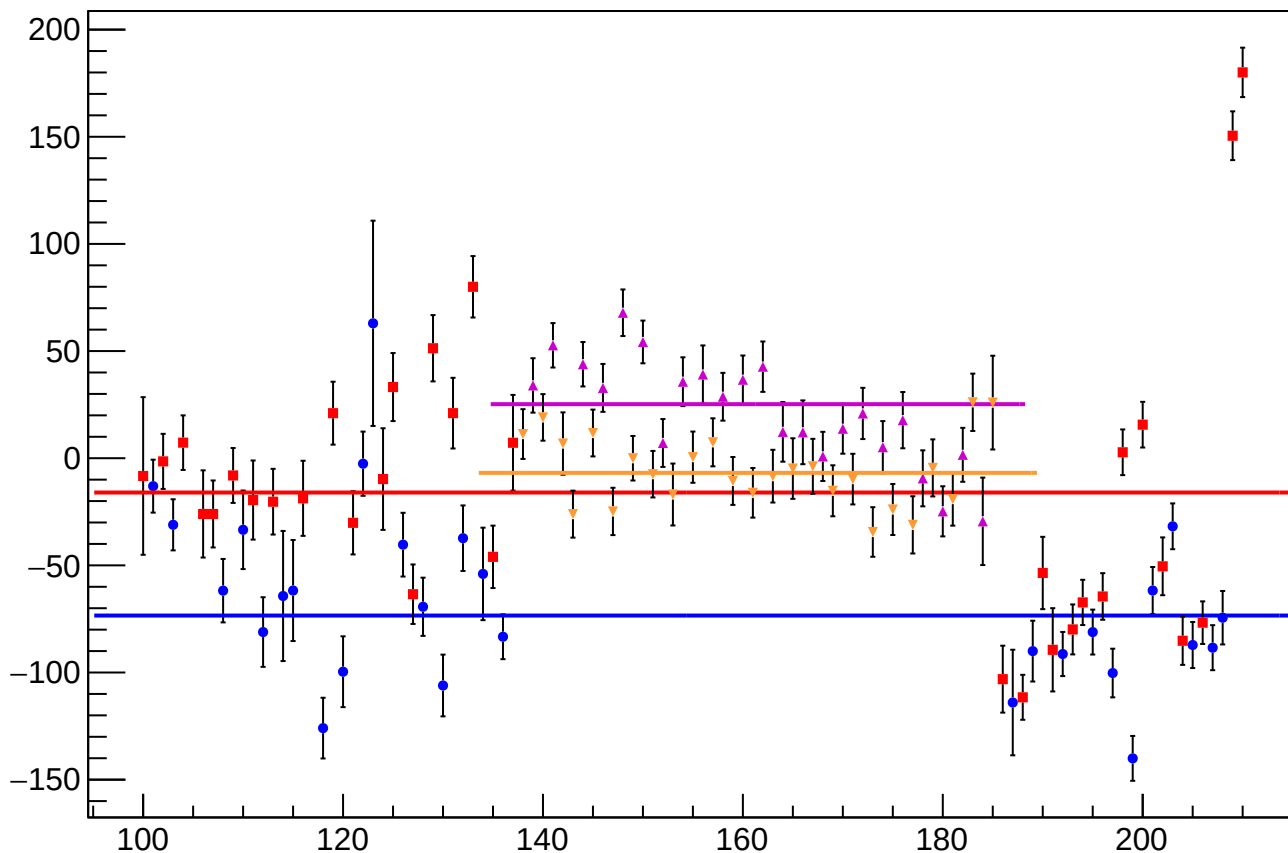
Right: 1679.290 $\pm$ 0.217 χ^2/NDF : 2240270.1/60

In: 1798.839 $\pm$ 0.231 χ^2/NDF : 2518370.2/50

Out: 1794.125 $\pm$ 0.219 χ^2/NDF : 2797663.9/57

All: 1796.363 $\pm$ 0.159 χ^2/NDF : 5316253.8/100

diff_bpm0l02X_mean vs Slug, Sign Corrected



Right In: -73.418 ± 2.541 χ^2/NDF : 180.4/27

Left Out: -6.825 ± 2.423 χ^2/NDF : 42.3/24

Right Out: -16.006 ± 2.383 χ^2/NDF : 912.4/32

Left In: 25.215 ± 2.487 χ^2/NDF : 89.3/22

Left: 8.777 ± 1.735 χ^2/NDF : 216.8/47

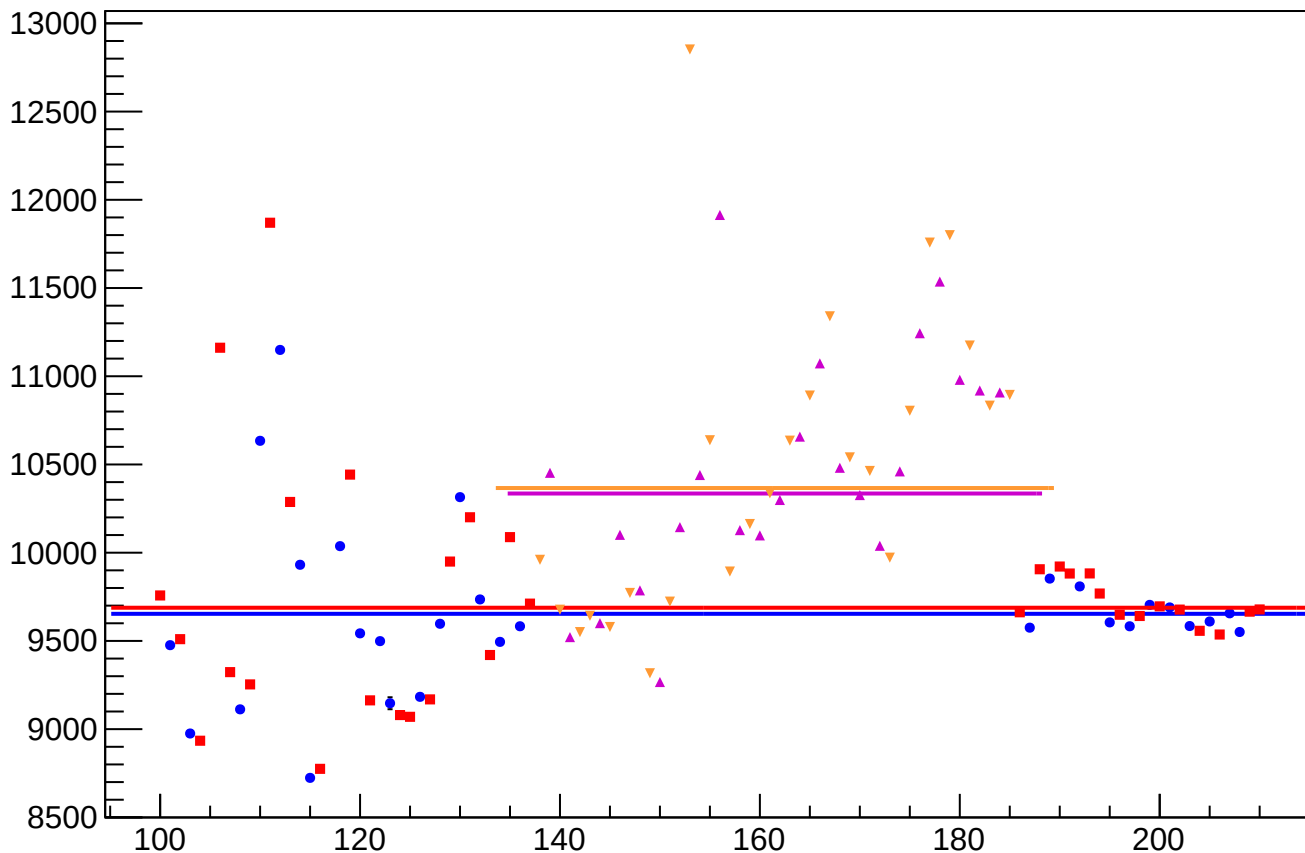
Right: -42.866 ± 1.738 χ^2/NDF : 1364.4/60

In: -23.031 ± 1.777 χ^2/NDF : 1039.3/50

Out: -11.491 ± 1.699 χ^2/NDF : 962.0/57

All: -17.001 ± 1.228 χ^2/NDF : 2023.3/108

diff_bpm0l02X_rms vs Slug, Sign Corrected



Right In: 9653.626 $\pm$ 1.797 χ^2 /NDF: 45316.6/27

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

Right Out: 9688.101 $\pm$ 1.685 χ^2 /NDF: 80350.9/32

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

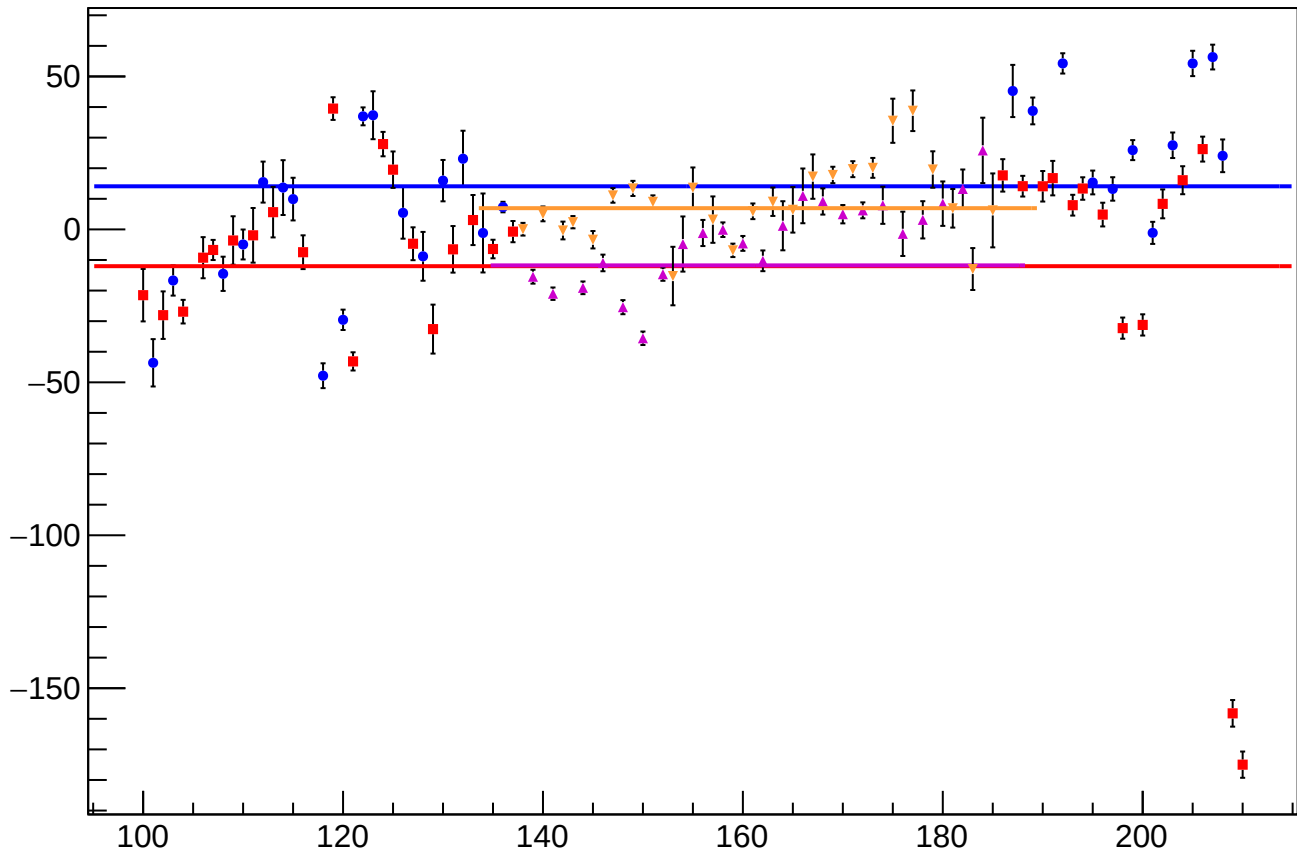
Right: 9671.971 $\pm$ 1.229 χ^2 /NDF: 125863.4/60

In: 10001.908 $\pm$ 1.257 χ^2 /NDF: 246032.9/50

Out: 10021.694 $\pm$ 1.201 χ^2 /NDF: 371482.3/57

All: 10012.248 $\pm$ 0.868 χ^2 /NDF: 617644.7/10

diff_bpm0l02Y_mean vs Slug, Sign Corrected



Right In: 14.090 ± 0.803 $\chi^2/\text{NDF}: 1077.3/27$

Left Out: 6.939 ± 0.639 $\chi^2/\text{NDF}: 203.8/24$

Right Out: -12.026 ± 0.770 $\chi^2/\text{NDF}: 3513.5/32$

Left In: -11.766 ± 0.648 $\chi^2/\text{NDF}: 395.1/22$

Left: -2.274 ± 0.455 $\chi^2/\text{NDF}: 1021.3/47$

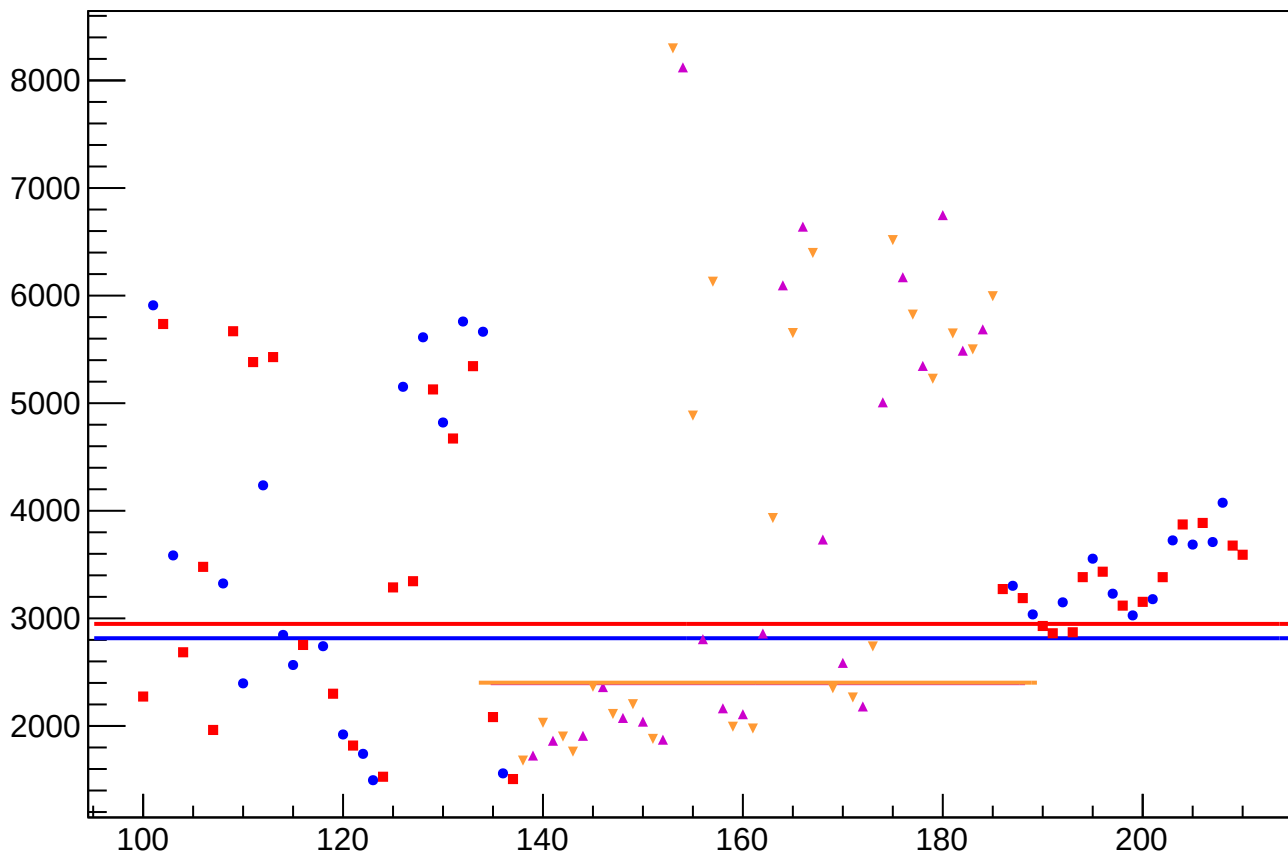
Right: 0.483 ± 0.556 $\chi^2/\text{NDF}: 5142.0/60$

In: -1.562 ± 0.504 $\chi^2/\text{NDF}: 2100.1/50$

Out: -0.793 ± 0.492 $\chi^2/\text{NDF}: 4076.7/57$

All: -1.167 ± 0.352 $\chi^2/\text{NDF}: 6178.0/108$

diff_bpm0l02Y_rms vs Slug, Sign Corrected



Right In: 2815.475 ± 0.568 $\chi^2/\text{NDF}: 3456751.0/27$

Left Out: 2402.359 ± 0.452 $\chi^2/\text{NDF}: 6345982.8/24$

Right Out: 2948.599 ± 0.544 $\chi^2/\text{NDF}: 2985504.7/32$

Left In: 2397.701 ± 0.458 $\chi^2/\text{NDF}: 5398920.1/22$

Left: 2400.065 ± 0.322 $\chi^2/\text{NDF}: 11744955.3/47$

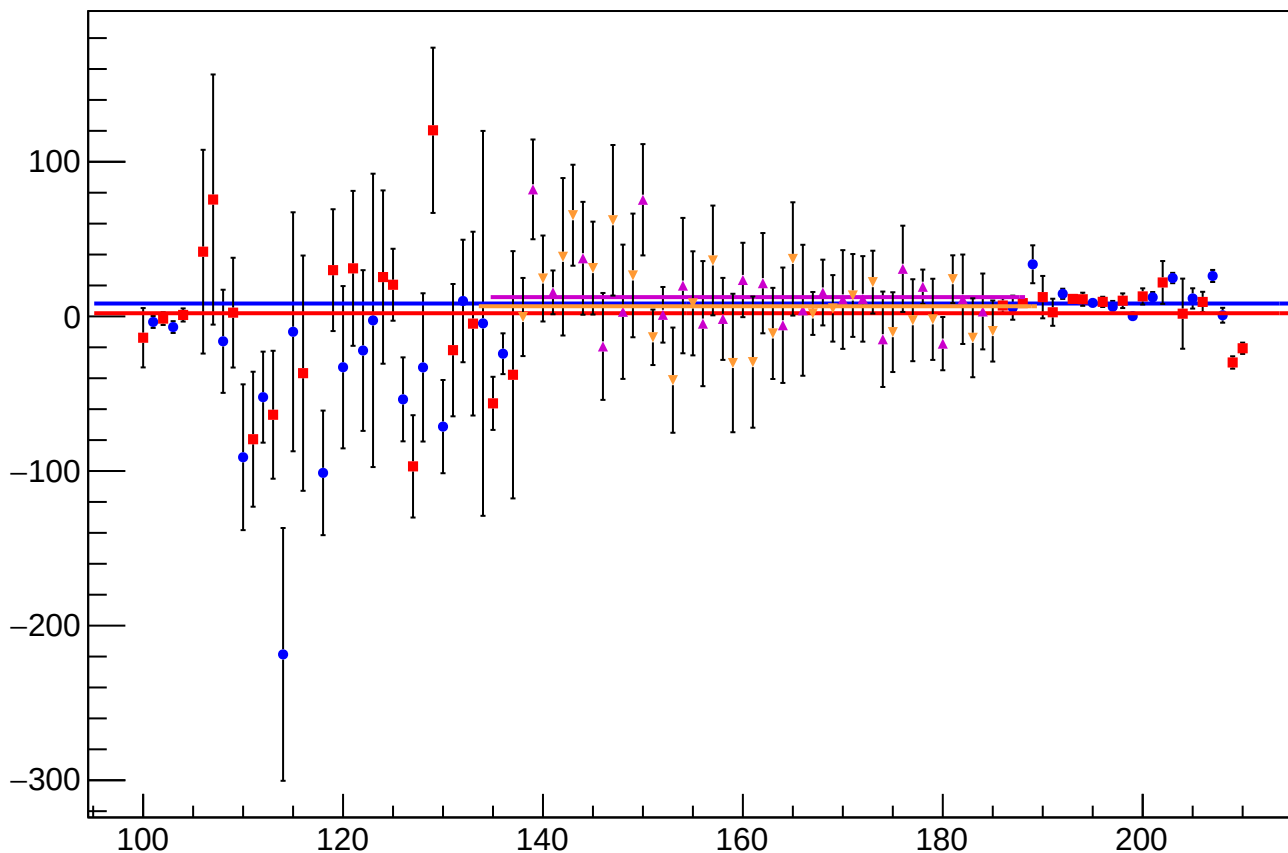
Right: 2884.836 ± 0.393 $\chi^2/\text{NDF}: 6470897.1/60$

In: 2562.577 ± 0.357 $\chi^2/\text{NDF}: 9183394.1/50$

Out: 2625.062 ± 0.348 $\chi^2/\text{NDF}: 9927805.4/57$

All: 2594.626 ± 0.249 $\chi^2/\text{NDF}: 19126939.1/131$

diff_bpm0l03X_mean vs Slug, Sign Corrected



Right In: 8.325 $\pm$ 1.089 χ^2 /NDF: 134.3/27

Left Out: 6.560 $\pm$ 5.077 χ^2 /NDF:16.8/24

Right Out: 2.046 $\pm$ 1.109 χ^2 /NDF: 174.9/32

Left In: 12.469 $\pm$ 5.025 χ^2 /NDF:15.4/22

Left: 9.545 $\pm$ 3.572 χ^2 /NDF: 32.8/47

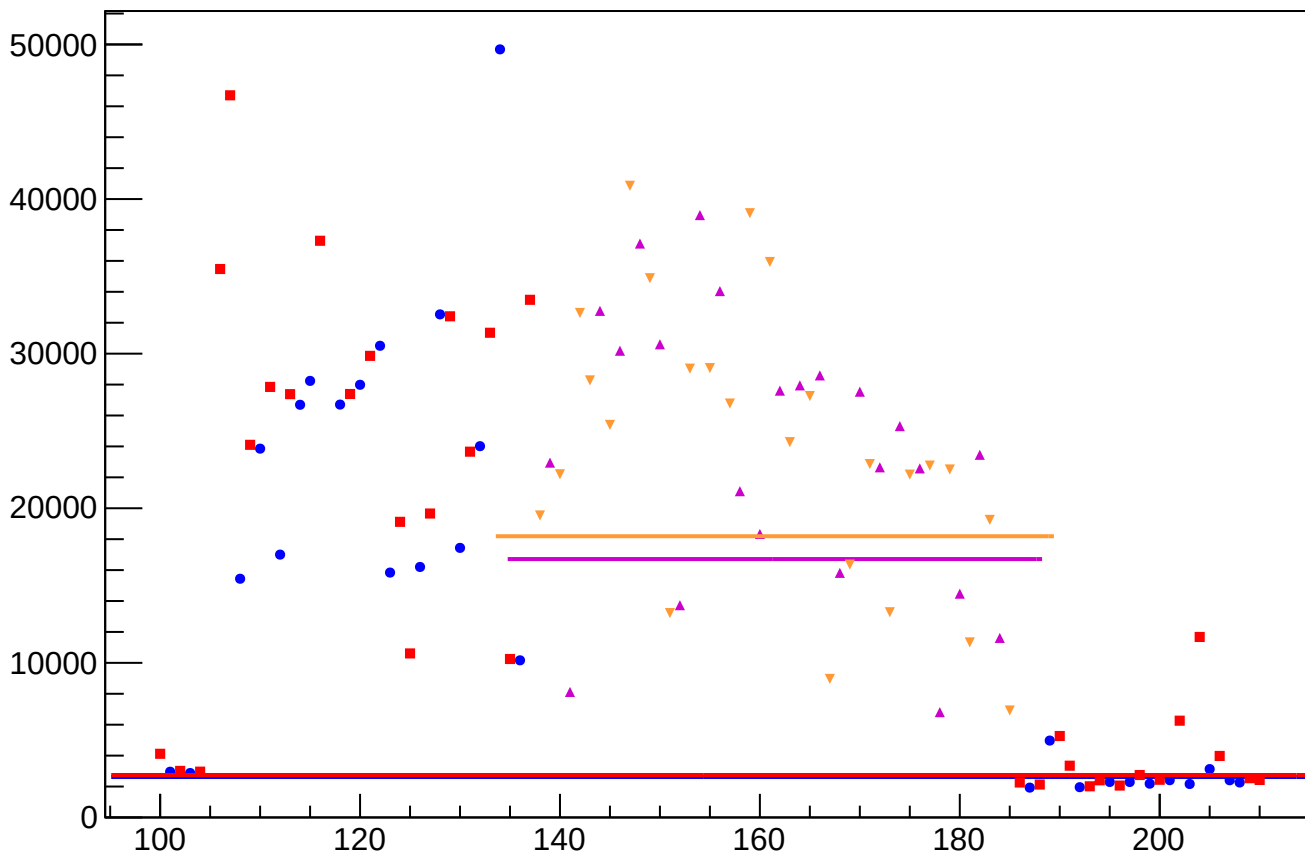
Right: 5.243 $\pm$ 0.777 χ^2 /NDF: 325.5/60

In: 8.511 $\pm$ 1.064 χ^2 /NDF:150.4/50

Out: 2.252 $\pm$ 1.084 χ^2 /NDF:192.4/57

All: 5.437 $\pm$ 0.759 χ^2 /NDF: 359.7/108

diff_bpm0l03X_rms vs Slug, Sign Corrected



Right In: 2615.933 $\pm$ 0.770

χ^2/NDF : 6997786.7/27

Left: 17444.397 $\pm$ 2.526 χ^2/NDF : 11540970.2/47

Left Out: 18190.387 $\pm$ 3.590

χ^2/NDF : 5261328.5/24

Right: 2680.109 $\pm$ 0.549 χ^2/NDF : 16091610.0/60

Right Out: 2746.649 $\pm$ 0.784

χ^2/NDF : 9079680.7/32

In: 3248.485 $\pm$ 0.753 χ^2/NDF : 28225824.5/50

Out: 3449.948 $\pm$ 0.766

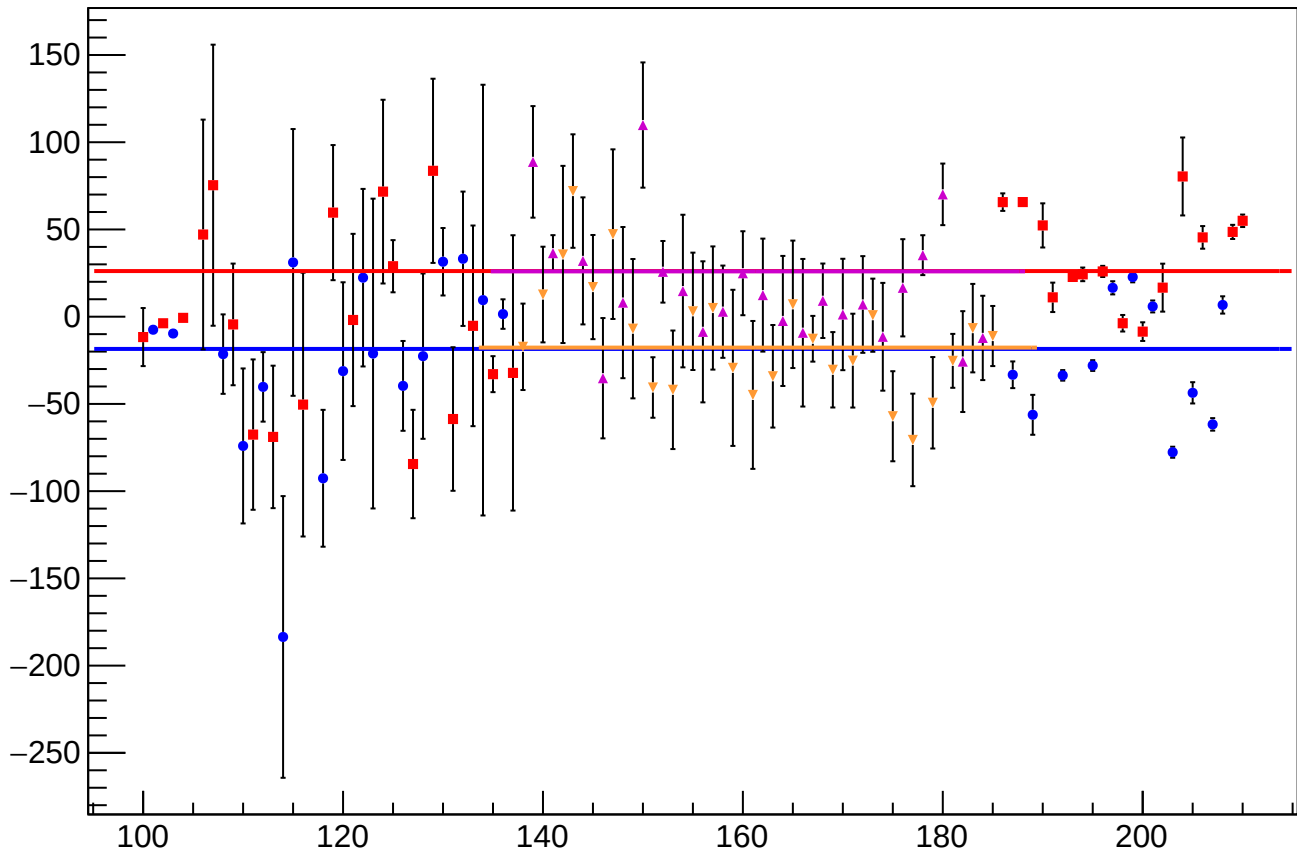
χ^2/NDF : 32001591.6/57

Left In: 16713.653 $\pm$ 3.553

χ^2/NDF : 6194178.8/22

All: 3347.430 $\pm$ 0.537 χ^2/NDF : 60262600.2/100

diff_bpm0l03Y_mean vs Slug, Sign Corrected



Right In: -18.478 ± 0.969 $\chi^2/\text{NDF}: 963.4/27$

Left Out: -17.717 ± 4.974 $\chi^2/\text{NDF}: 27.2/24$

Right Out: 26.154 ± 0.994 $\chi^2/\text{NDF}: 749.4/32$

Left In: 25.991 ± 4.789 $\chi^2/\text{NDF}: 32.6/22$

Left: 4.967 ± 3.450 $\chi^2/\text{NDF}: 99.8/47$

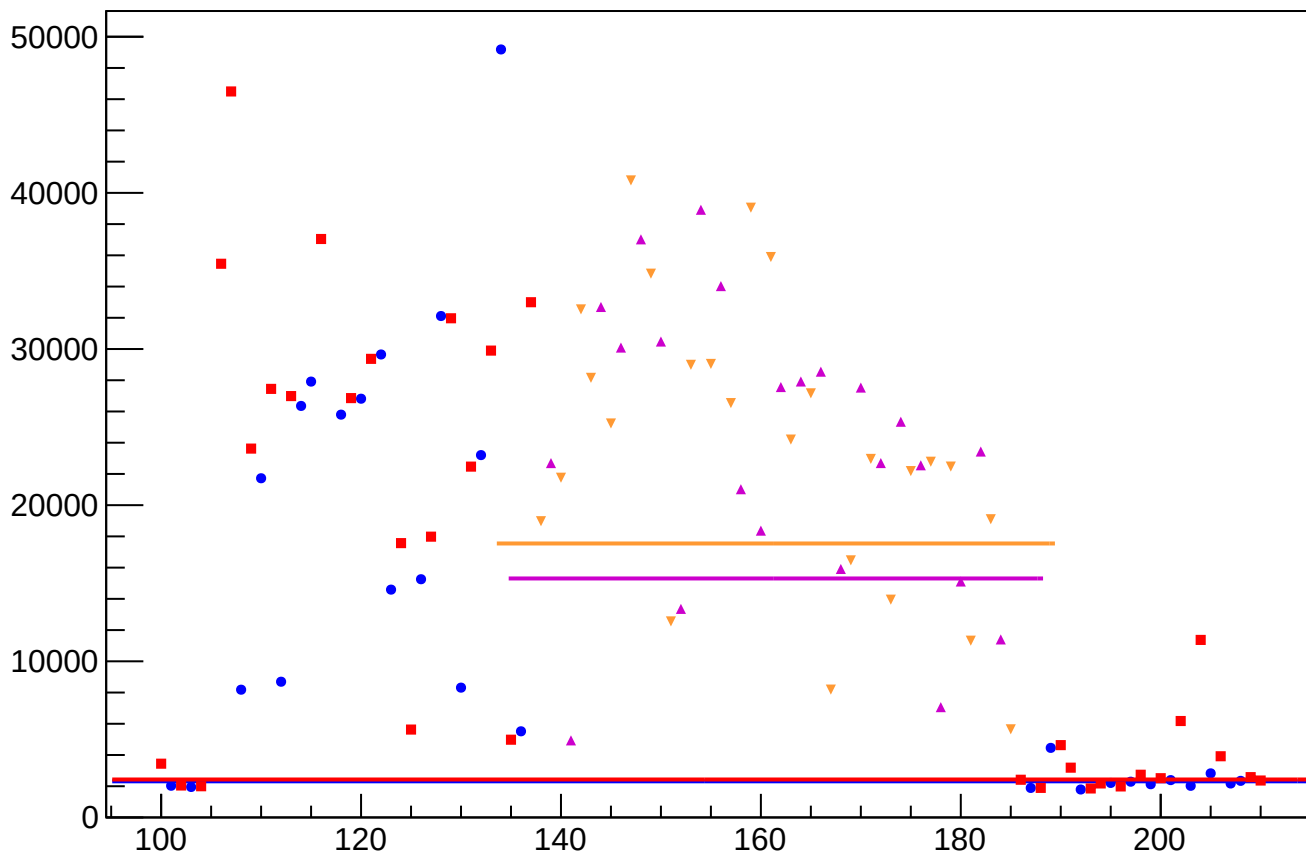
Right: 3.272 ± 0.694 $\chi^2/\text{NDF}: 2746.0/60$

In: -16.728 ± 0.950 $\chi^2/\text{NDF}: 1078.9/50$

Out: 24.468 ± 0.975 $\chi^2/\text{NDF}: 851.4/57$

All: 3.338 ± 0.680 $\chi^2/\text{NDF}: 2846.0/108$

diff_bpm0l03Y_rms vs Slug, Sign Corrected



Right In: 2314.517+/-0.685

χ^2/NDF : 5812391.2/27

Left: 16383.216+/-2.439 χ^2/NDF : 13834445.4/47

Right: 2371.438+/-0.491 χ^2/NDF : 14577174.9/60

Left Out: 17546.173+/-3.517

χ^2/NDF : 5902620.4/24

In: 2825.834+/-0.672 χ^2/NDF : 27671765.1/50

Right Out: 2431.321+/-0.703

χ^2/NDF : 8750632.4/32

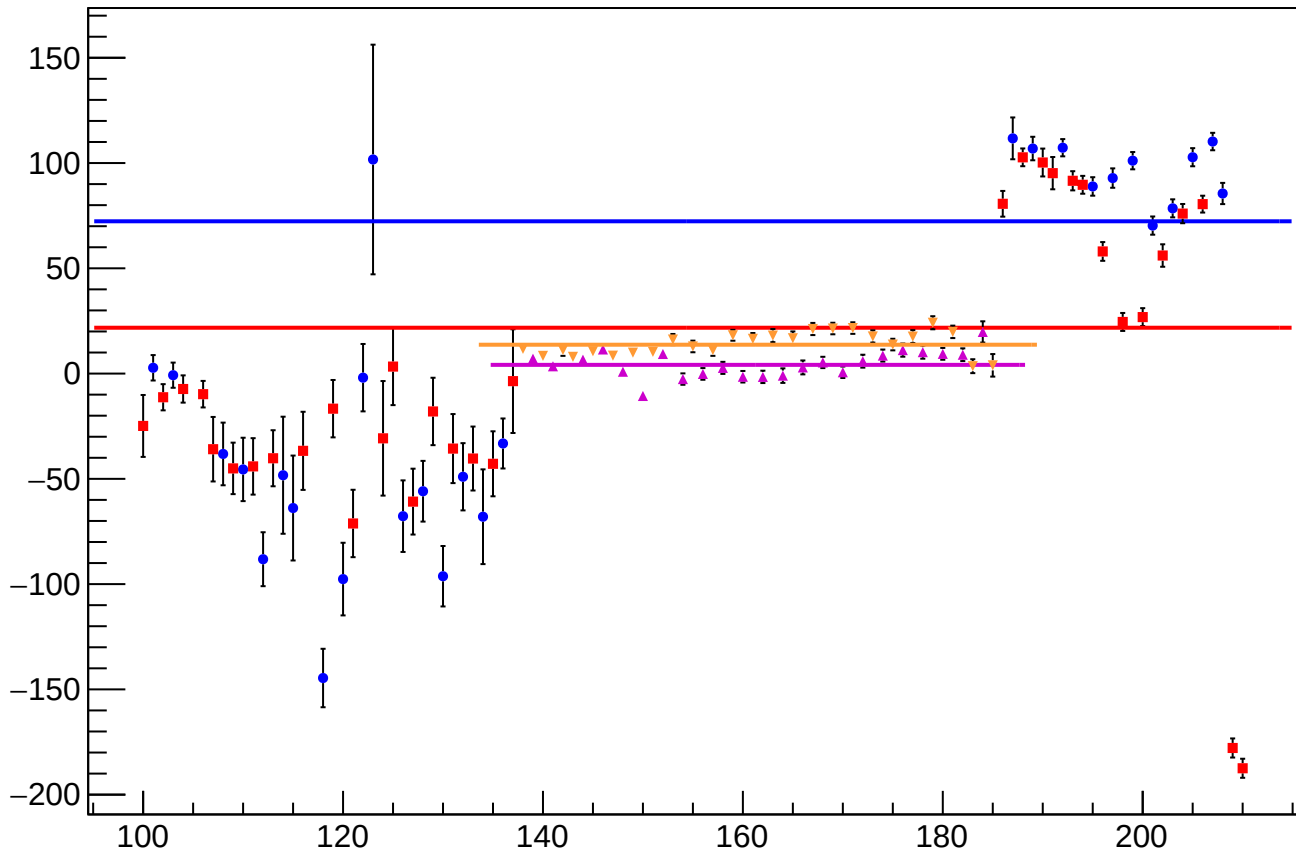
Out: 3011.992+/-0.689 χ^2/NDF : 32410395.4/57

Left In: 15305.311+/-3.386

χ^2/NDF : 7721177.0/22

All: 2916.507+/-0.481 χ^2/NDF : 60119560.2/1

diff_bpm0l04X_mean vs Slug, Sign Corrected



Right In: 72.333+/-1.258 χ^2/NDF : 1781.2/27

Left Out: 13.710+/-0.535 χ^2/NDF : 89.9/24

Right Out: 21.778+/-1.139 χ^2/NDF : 6035.2/32

Left In: 4.141+/-0.555 χ^2/NDF : 111.7/22

Left: 9.097+/-0.385 χ^2/NDF : 355.6/47

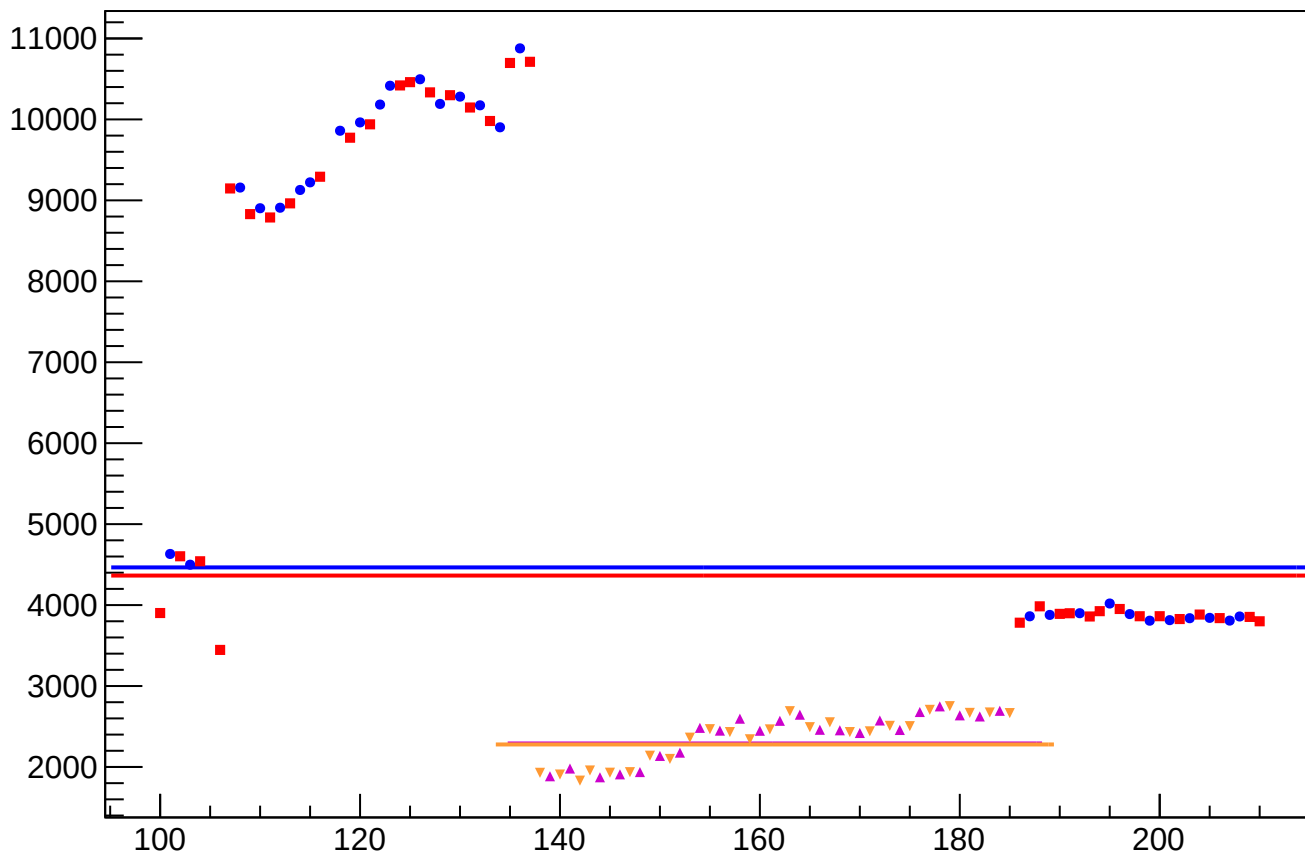
Right: 44.566+/-0.844 χ^2/NDF : 8704.0/60

In: 15.250+/-0.508 χ^2/NDF : 4354.2/50

Out: 15.169+/-0.484 χ^2/NDF : 6166.2/57

All: 15.208+/-0.350 χ^2/NDF : 10520.4/108

diff_bpm0l04X_rms vs Slug, Sign Corrected



Right In: 4465.482+/-0.889 χ^2/NDF : 3760371.5/27

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

Right Out: 4364.637+/-0.806 χ^2/NDF : 3849064.3/32

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

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

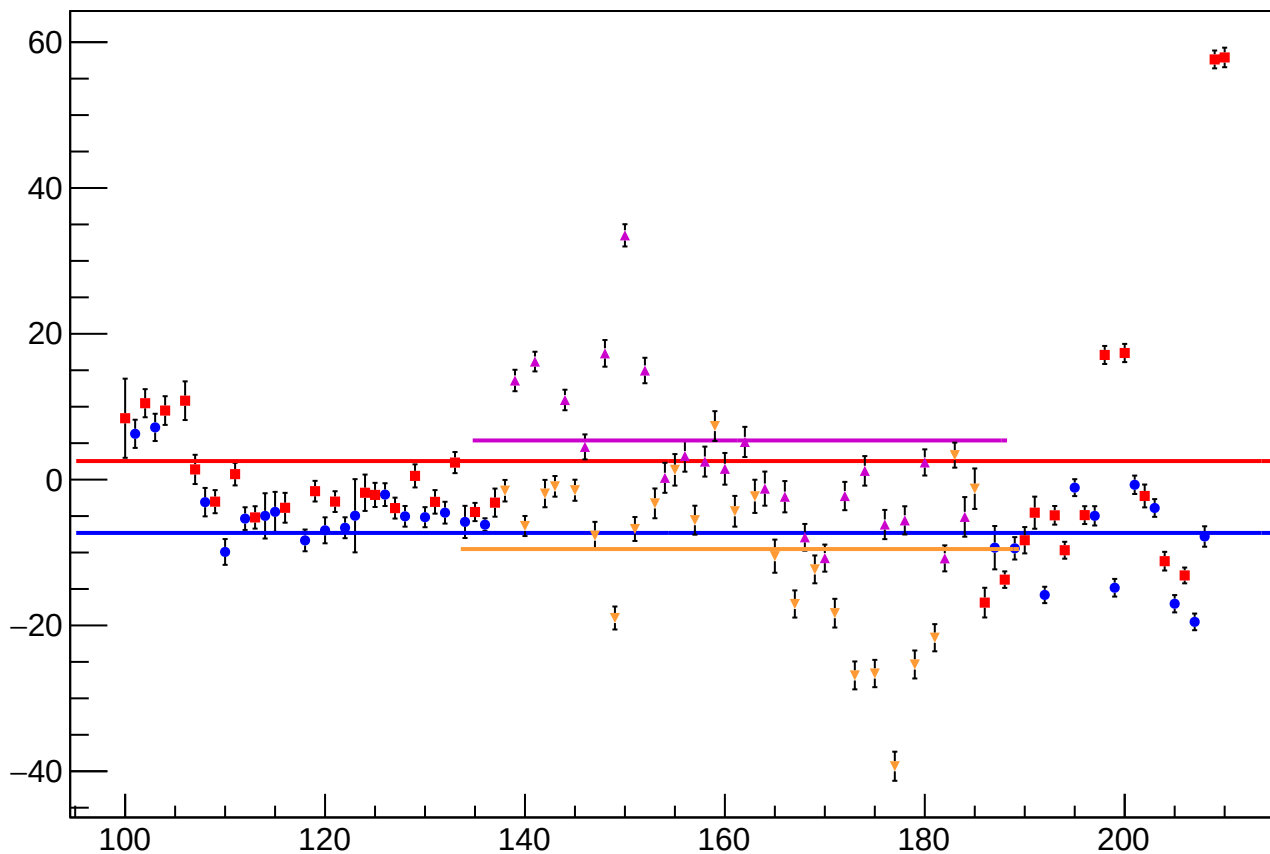
Right: 4410.093+/-0.597 χ^2/NDF : 7616499.5/60

In: 2644.812+/-0.359 χ^2/NDF : 9358502.7/50

Out: 2655.404+/-0.343 χ^2/NDF : 9951751.1/57

All: 2650.355+/-0.248 χ^2/NDF : 19310709.6/100

diff_bpm0l04Y_mean vs Slug, Sign Corrected



Right In: -7.311 ± 0.277 χ^2/NDF : 488.6/27

Left Out: -9.524 ± 0.365 χ^2/NDF : 884.1/24

Right Out: 2.546 ± 0.262 χ^2/NDF : 5068.1/32

Left In: 5.372 ± 0.383 χ^2/NDF : 869.8/22

Left: -2.437 ± 0.264 χ^2/NDF : 2547.3/47

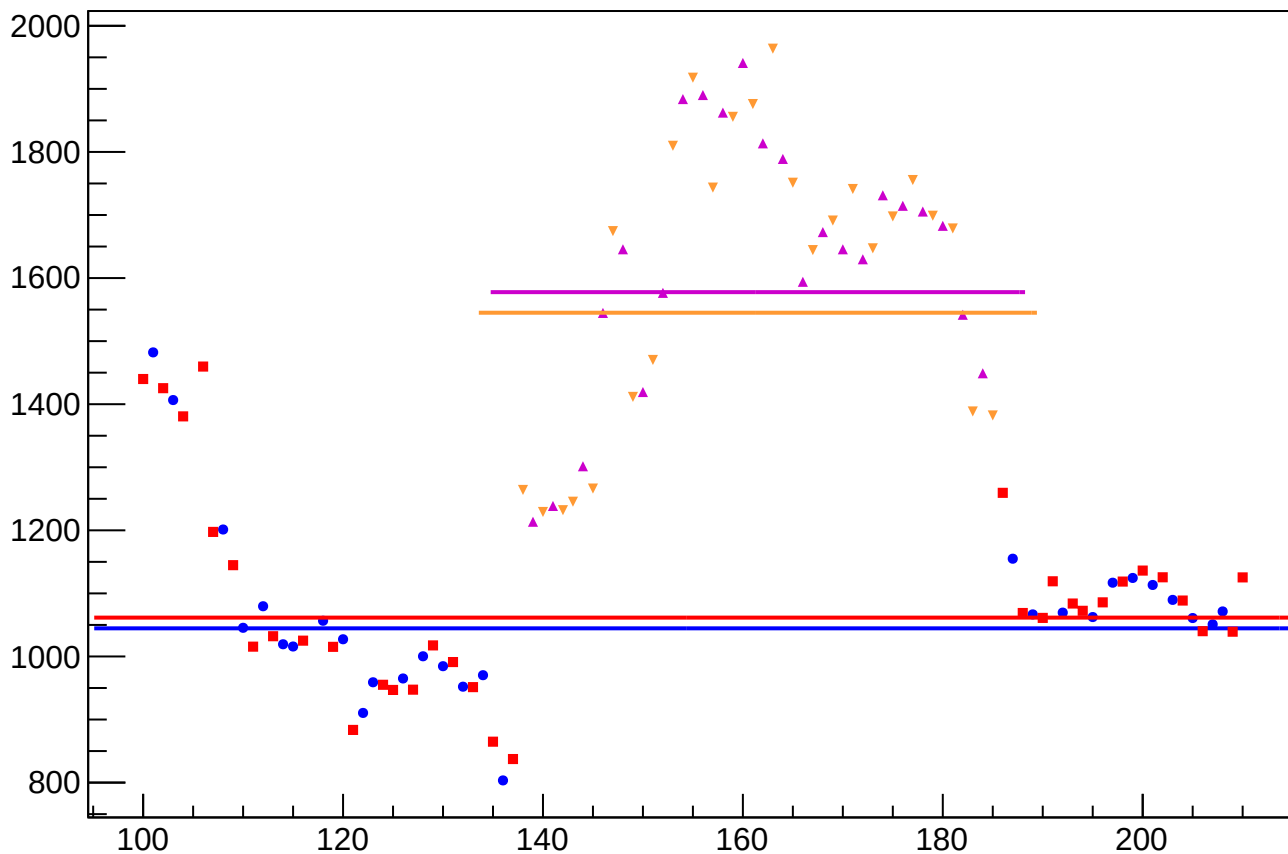
Right: -2.121 ± 0.190 χ^2/NDF : 6225.8/60

In: -2.963 ± 0.224 χ^2/NDF : 2079.6/50

Out: -1.566 ± 0.213 χ^2/NDF : 6674.1/57

All: -2.229 ± 0.154 χ^2/NDF : 8774.1/108

diff_bpm0l04Y_rms vs Slug, Sign Corrected



Right In: 1044.595 $\pm$ 0.196 χ^2 /NDF: 411128.4/27

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

Right Out: 1061.603 $\pm$ 0.185 χ^2 /NDF: 392861.4/32

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

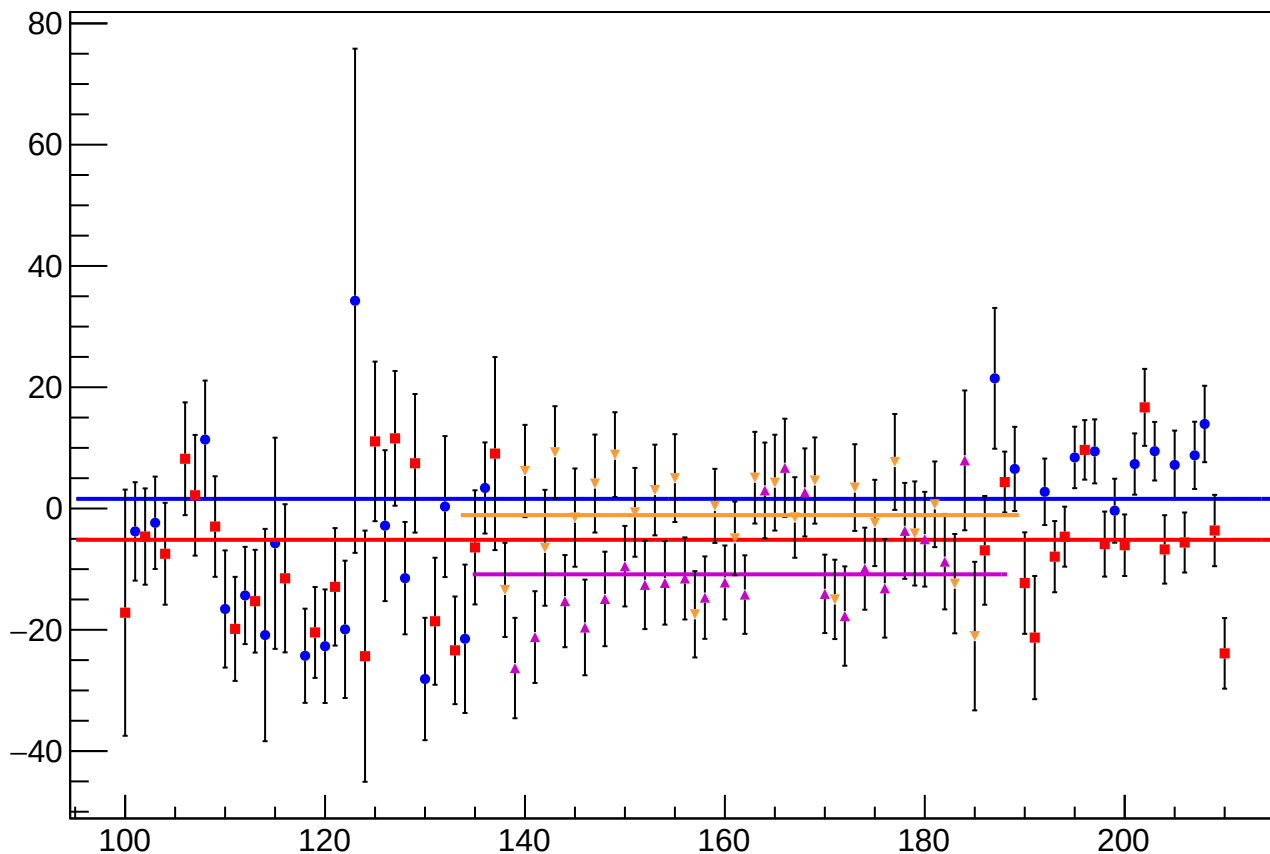
Right: 1053.551 $\pm$ 0.135 χ^2 /NDF: 807973.2/60

In: 1227.337 $\pm$ 0.159 χ^2 /NDF:3584272.0/50

Out: 1226.315 $\pm$ 0.151 χ^2 /NDF:3551724.4/57

All: 1226.800 $\pm$ 0.109 χ^2 /NDF: 7136018.2/10

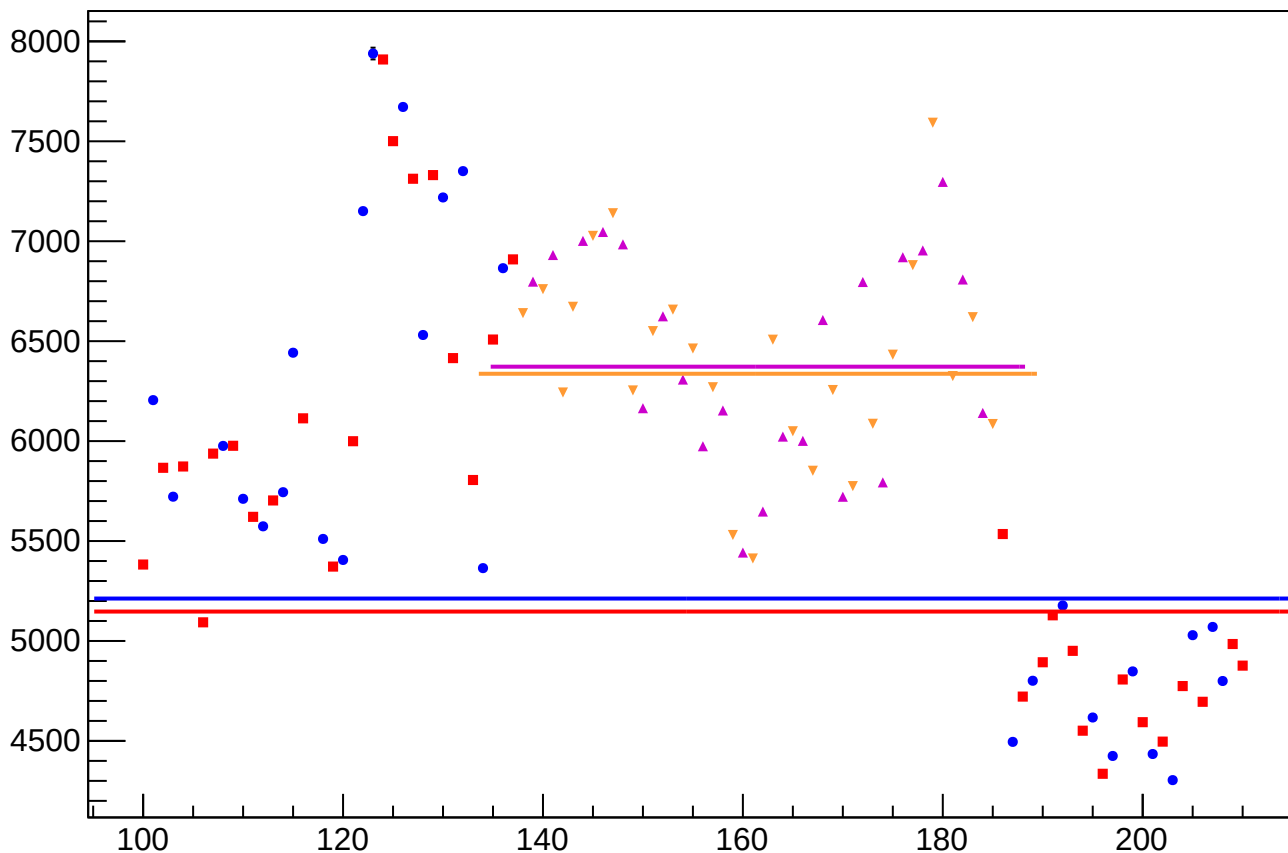
diff_bpm0l05X_mean vs Slug, Sign Corrected



Right In: 1.593 $\pm$ 1.394 χ^2/NDF : 65.6/27
 Left Out: -1.083 $\pm$ 1.487 χ^2/NDF : 27.5/24
 Right Out: -5.159 $\pm$ 1.282 χ^2/NDF : 63.7/32
 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: -2.065 $\pm$ 0.943 χ^2/NDF : 142.0/60
 In: -4.003 $\pm$ 1.034 χ^2/NDF : 125.8/50
 Out: -3.422 $\pm$ 0.971 χ^2/NDF : 95.5/57
 All: -3.694 $\pm$ 0.708 χ^2/NDF : 221.5/108

diff_bpm0l05X_rms vs Slug, Sign Corrected



Right In: 5212.298 ± 0.985 $\chi^2/\text{NDF}: 732386.4/27$

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

Right Out: 5147.141 ± 0.906 $\chi^2/\text{NDF}: 654094.0/32$

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

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

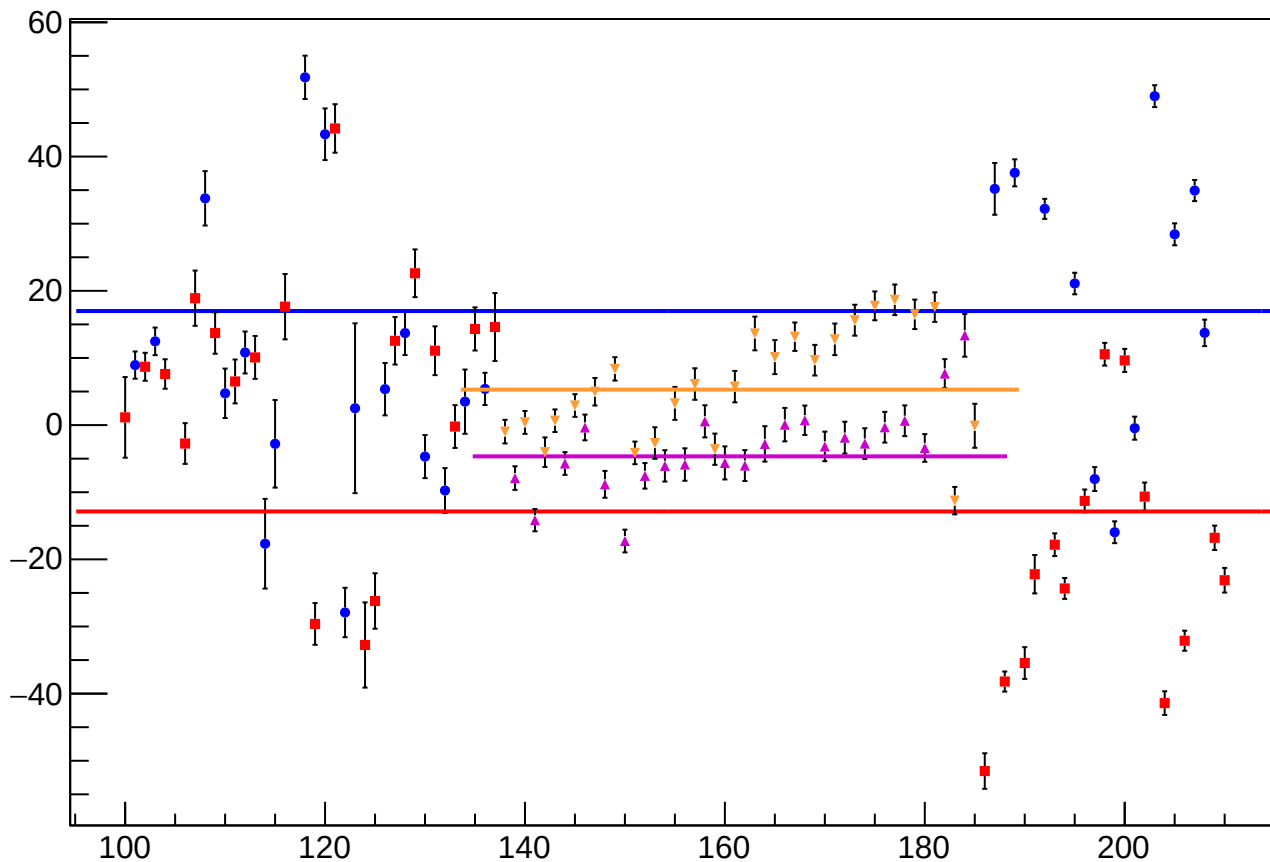
Right: 5176.996 ± 0.667 $\chi^2/\text{NDF}: 1388849.2/60$

In: 5733.945 ± 0.731 $\chi^2/\text{NDF}: 1602861.2/50$

Out: 5654.139 ± 0.686 $\chi^2/\text{NDF}: 1611558.0/57$

All: 5691.537 ± 0.500 $\chi^2/\text{NDF}: 3220752.7/100$

diff_bpm0l05Y_mean vs Slug, Sign Corrected



Right In: 16.990 ± 0.440 χ^2/NDF : 2070.8/27

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

Right Out: -12.866 ± 0.409 χ^2/NDF : 2574.8/32

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

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

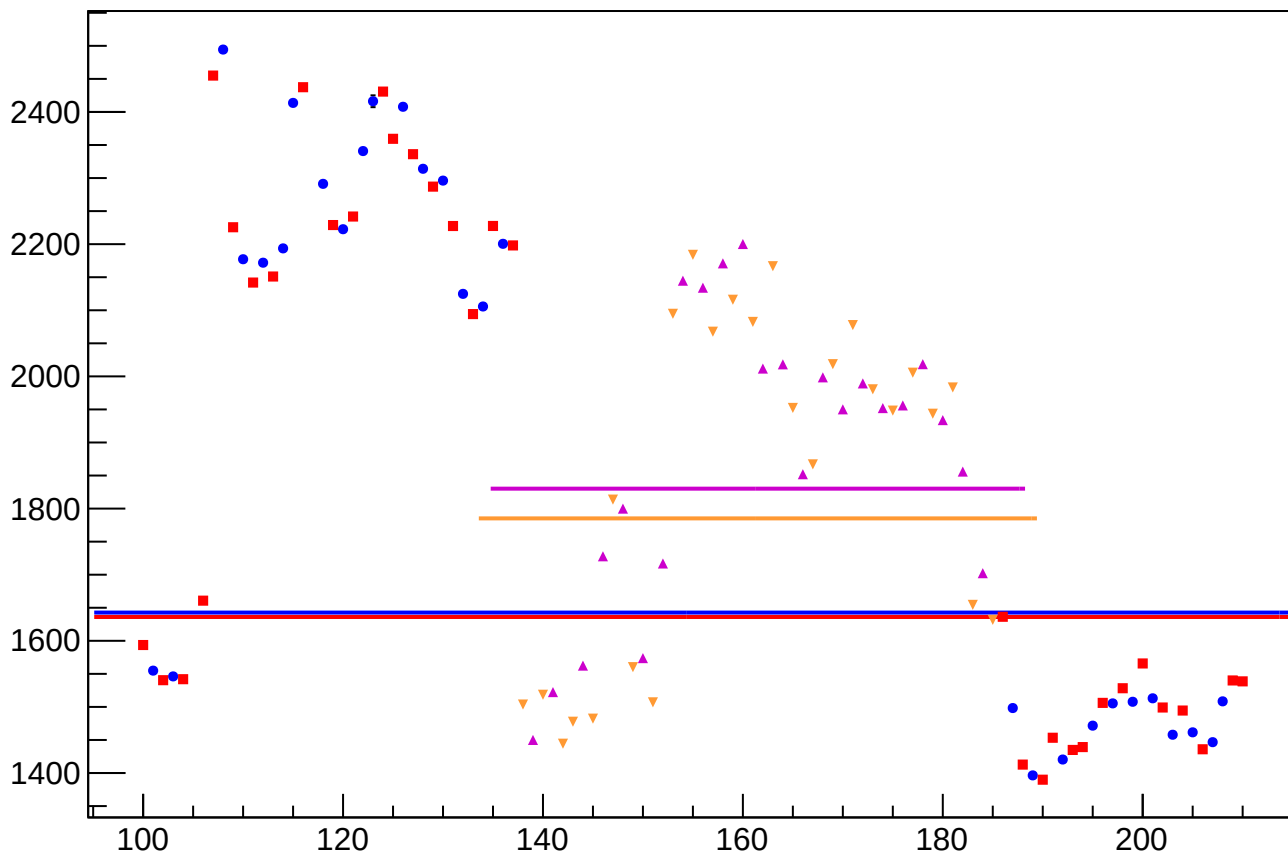
Right: 0.959 ± 0.299 χ^2/NDF : 7118.5/60

In: 6.250 ± 0.312 χ^2/NDF : 3468.6/50

Out: -4.057 ± 0.293 χ^2/NDF : 3898.8/57

All: 0.770 ± 0.214 χ^2/NDF : 7946.5/108

diff_bpm0l05Y_rms vs Slug, Sign Corrected



Right In: 1642.714 ± 0.311 $\chi^2/\text{NDF}: 1083449.2/27$

Left Out: 1785.179 ± 0.297 $\chi^2/\text{NDF}: 750628.1/24$

Right Out: 1636.046 ± 0.289 $\chi^2/\text{NDF}: 1094861.3/32$

Left In: 1830.160 ± 0.313 $\chi^2/\text{NDF}: 508391.9/22$

Left: 1806.491 ± 0.216 $\chi^2/\text{NDF}: 1269853.4/47$

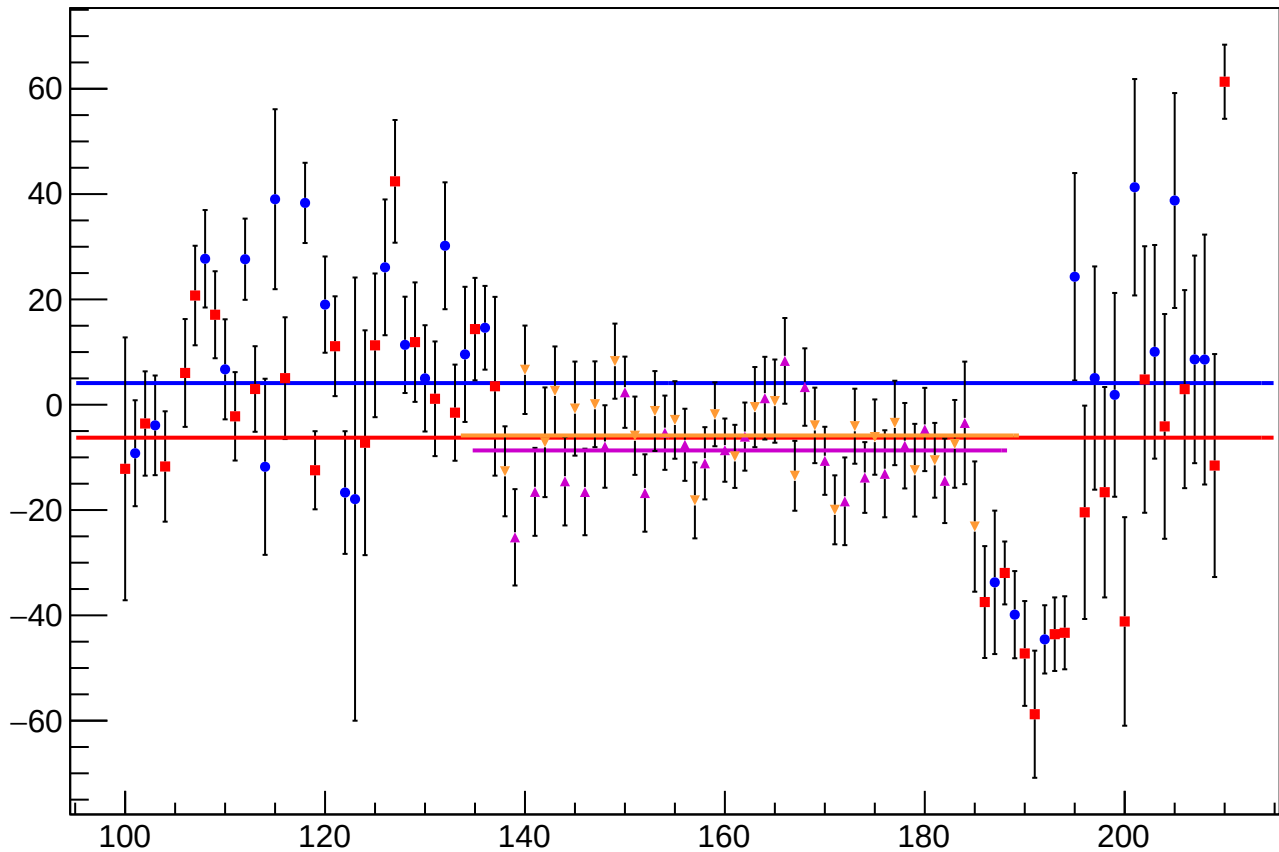
Right: 1639.133 ± 0.212 $\chi^2/\text{NDF}: 2178557.2/60$

In: 1735.714 ± 0.221 $\chi^2/\text{NDF}: 1771987.3/50$

Out: 1708.428 ± 0.207 $\chi^2/\text{NDF}: 1974843.4/57$

All: 1721.206 ± 0.151 $\chi^2/\text{NDF}: 3754949.5/10$

diff_bpm0l06X_mean vs Slug, Sign Corrected



Right In: 4.110 ± 2.112 χ^2/NDF : 159.6/27

Left Out: -5.840 ± 1.518 χ^2/NDF : 23.3/24

Right Out: -6.259 ± 1.793 χ^2/NDF : 268.4/32

Left In: -8.683 ± 1.571 χ^2/NDF : 21.9/22

Left: -7.214 ± 1.092 χ^2/NDF : 47.0/47

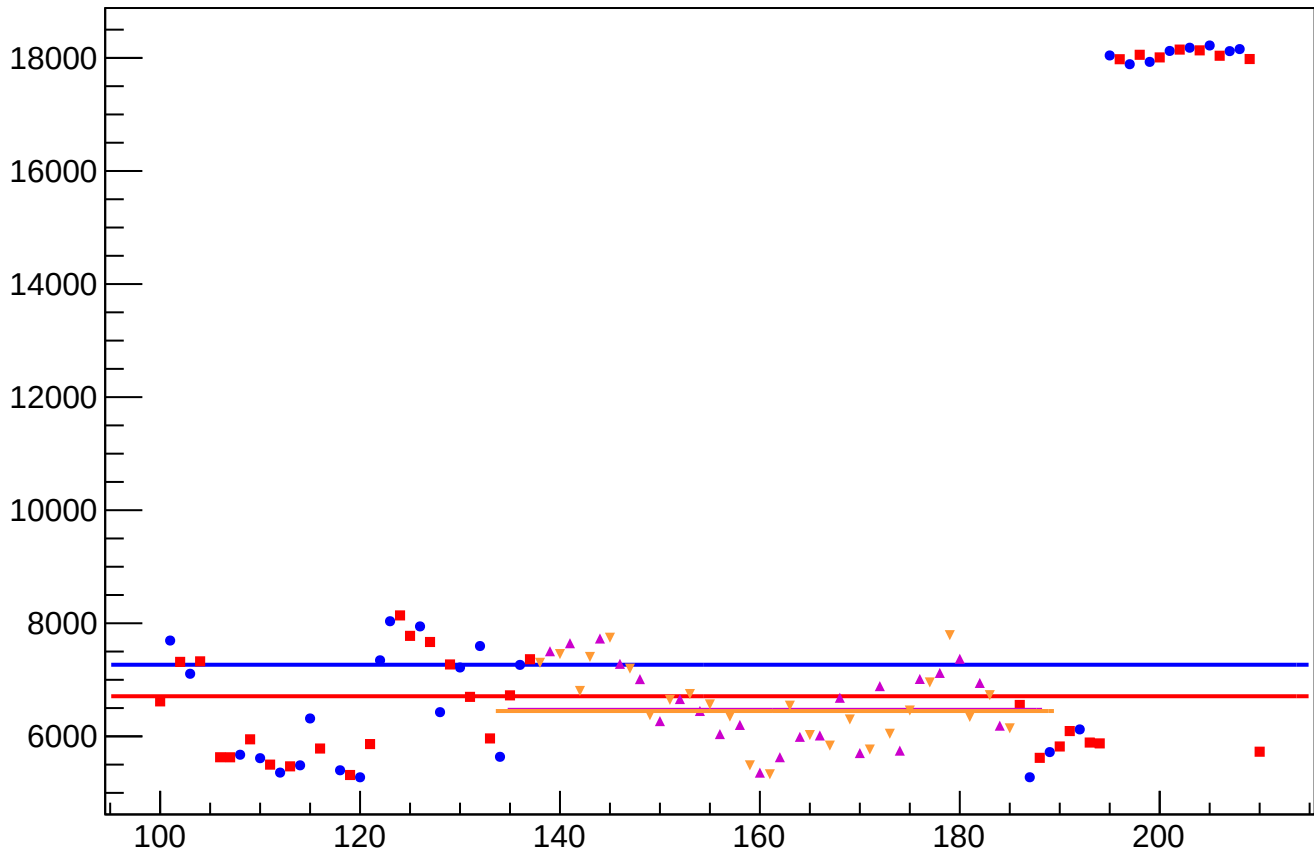
Right: -1.918 ± 1.367 χ^2/NDF : 442.1/60

In: -4.128 ± 1.260 χ^2/NDF : 205.2/50

Out: -6.015 ± 1.159 χ^2/NDF : 291.8/57

All: -5.151 ± 0.853 χ^2/NDF : 498.2/108

diff_bpm0l06X_rms vs Slug, Sign Corrected



Right In: 7266.349 $\pm$ 1.494

χ^2/NDF : 5170580.3/27

Left: 6457.948 $\pm$ 0.772 χ^2/NDF : 755184.7/47

Right: 6942.493 $\pm$ 0.966 χ^2/NDF : 9947088.4/60

Left Out: 6447.712 $\pm$ 1.074

χ^2/NDF : 371671.1/24

In: 6752.820 $\pm$ 0.891 χ^2/NDF : 5737478.4/50

Right Out: 6709.246 $\pm$ 1.268

χ^2/NDF : 4695630.3/32

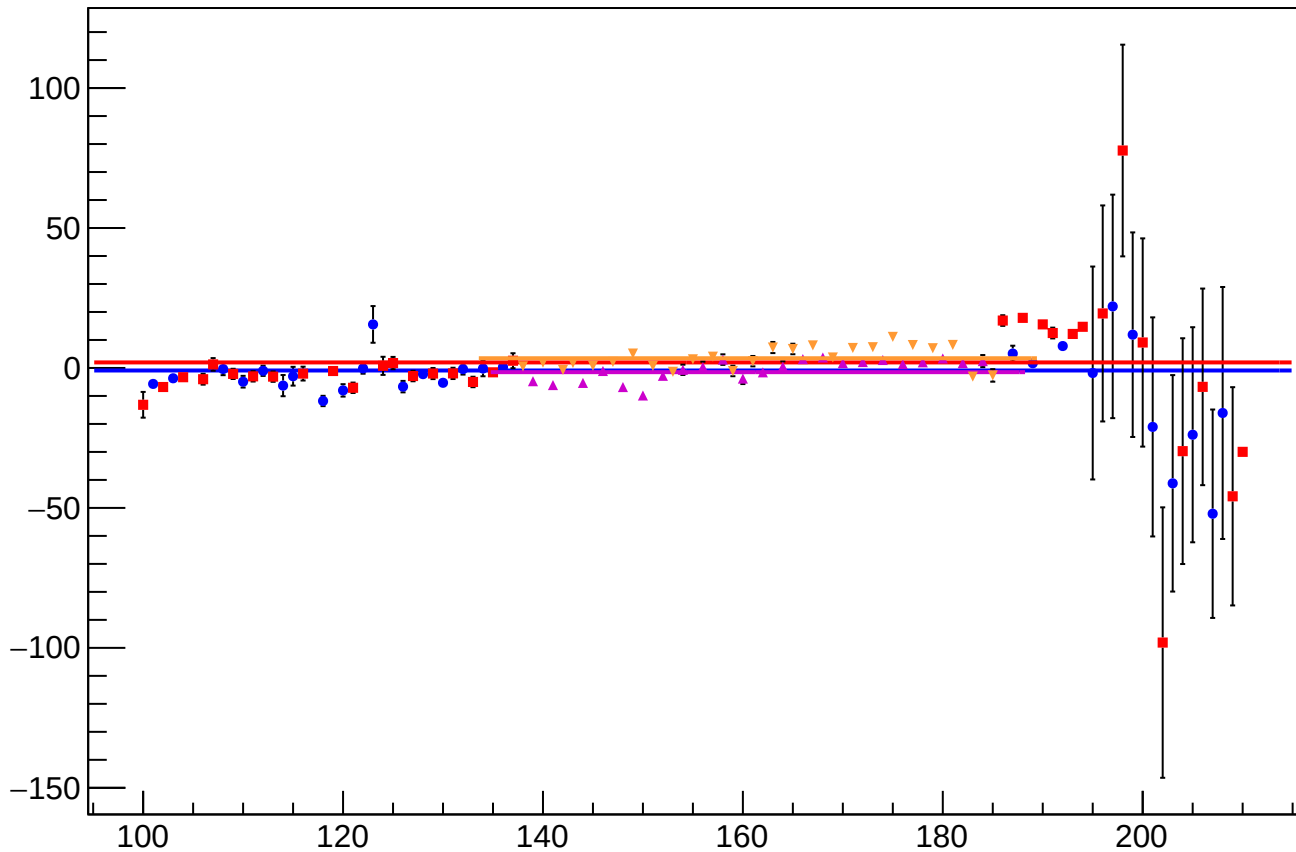
Out: 6556.961 $\pm$ 0.819 χ^2/NDF : 5092090.7/57

Left In: 6468.902 $\pm$ 1.111

χ^2/NDF : 383325.4/22

All: 6646.664 $\pm$ 0.603 χ^2/NDF : 10855747.1/13

diff_bpm0l06Y_mean vs Slug, Sign Corrected



Right In: -0.903 ± 0.406 χ^2/NDF : 175.5/27

Left Out: 3.470 ± 0.276 χ^2/NDF : 176.0/24

Right Out: 1.979 ± 0.342 χ^2/NDF : 1308.4/32

Left In: -1.502 ± 0.291 χ^2/NDF : 202.7/22

Left: 1.109 ± 0.200 χ^2/NDF : 532.4/47

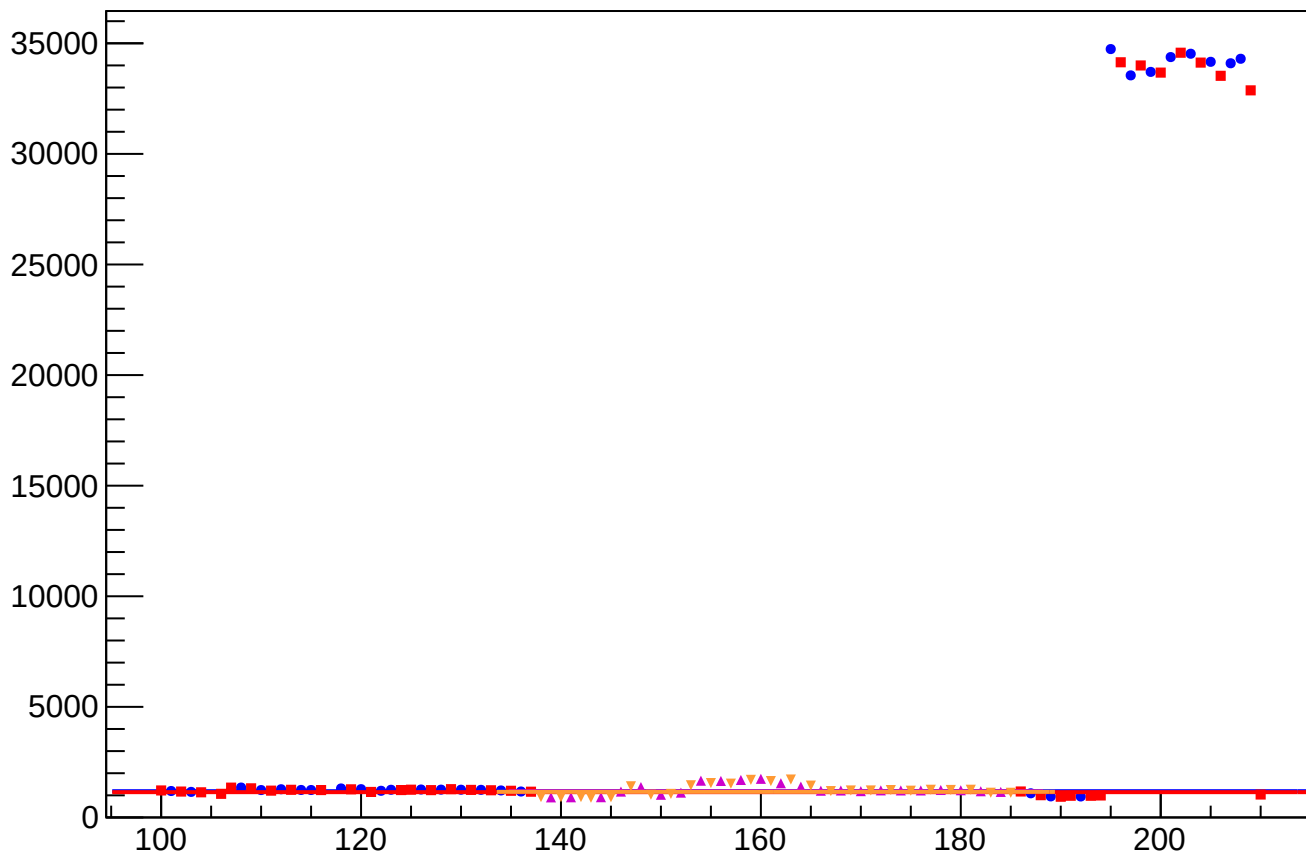
Right: 0.780 ± 0.262 χ^2/NDF : 1513.4/60

In: -1.299 ± 0.236 χ^2/NDF : 379.6/50

Out: 2.882 ± 0.215 χ^2/NDF : 1495.9/57

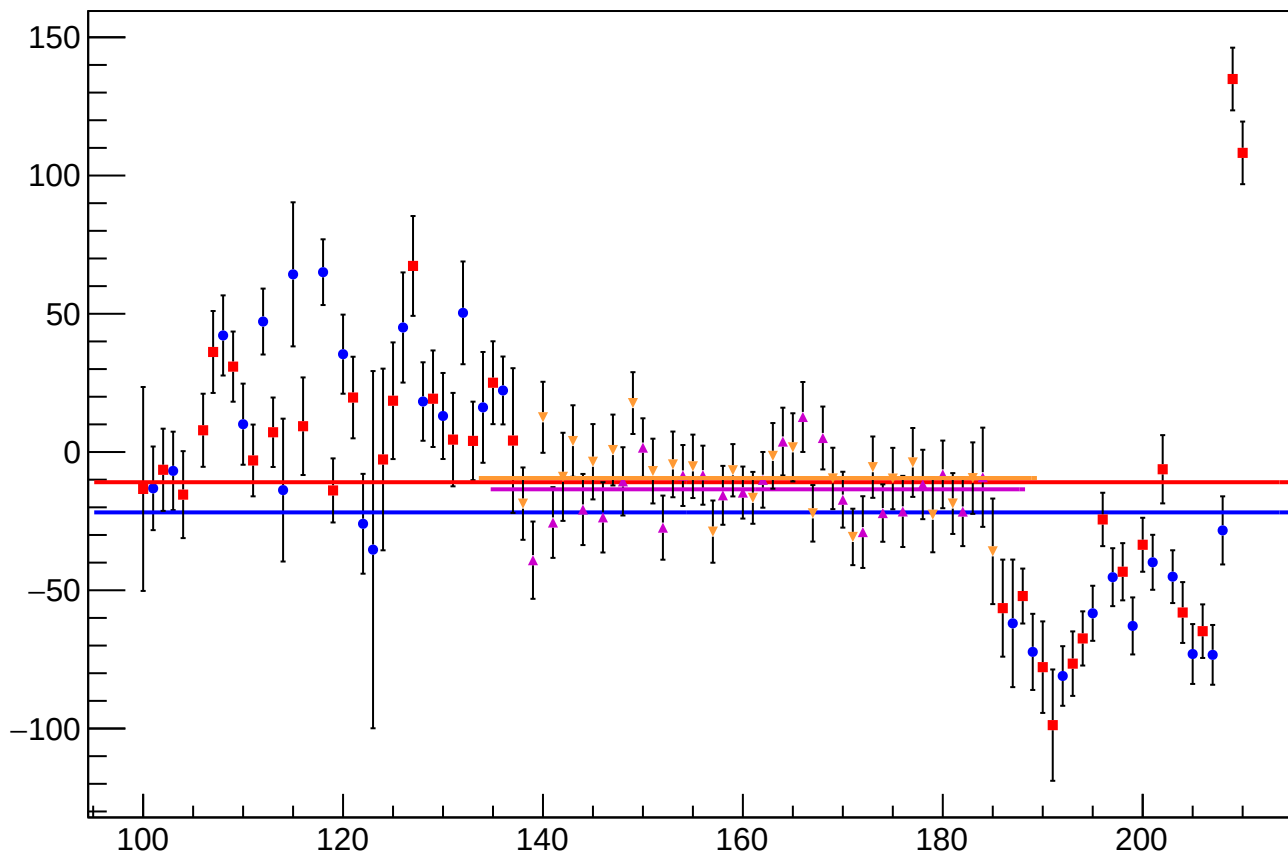
All: 0.988 ± 0.159 χ^2/NDF : 2046.8/108

diff_bpm0l06Y_rms vs Slug, Sign Corrected



Right In: 1187.720+/-0.287	χ^2/NDF : 11716655.3/27	Left: 1171.274+/-0.142	χ^2/NDF : 2609306.9/47
Left Out: 1158.894+/-0.195	χ^2/NDF : 1410423.6/24	Right: 1161.981+/-0.185	χ^2/NDF : 21808900.1/60
Right Out: 1143.654+/-0.242	χ^2/NDF : 10078456.6/32	In: 1185.901+/-0.167	χ^2/NDF : 12907147.7/50
Left In: 1184.966+/-0.206	χ^2/NDF : 1190431.5/22	Out: 1152.879+/-0.152	χ^2/NDF : 11491280.5/57
		All: 1167.840+/-0.112	χ^2/NDF : 24419798.5/100

diff_bpm0l07X_mean vs Slug, Sign Corrected



Right In: -21.831 ± 2.525 χ^2/NDF : 331.0/27

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

Right Out: -10.917 ± 2.318 χ^2/NDF : 529.9/32

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

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

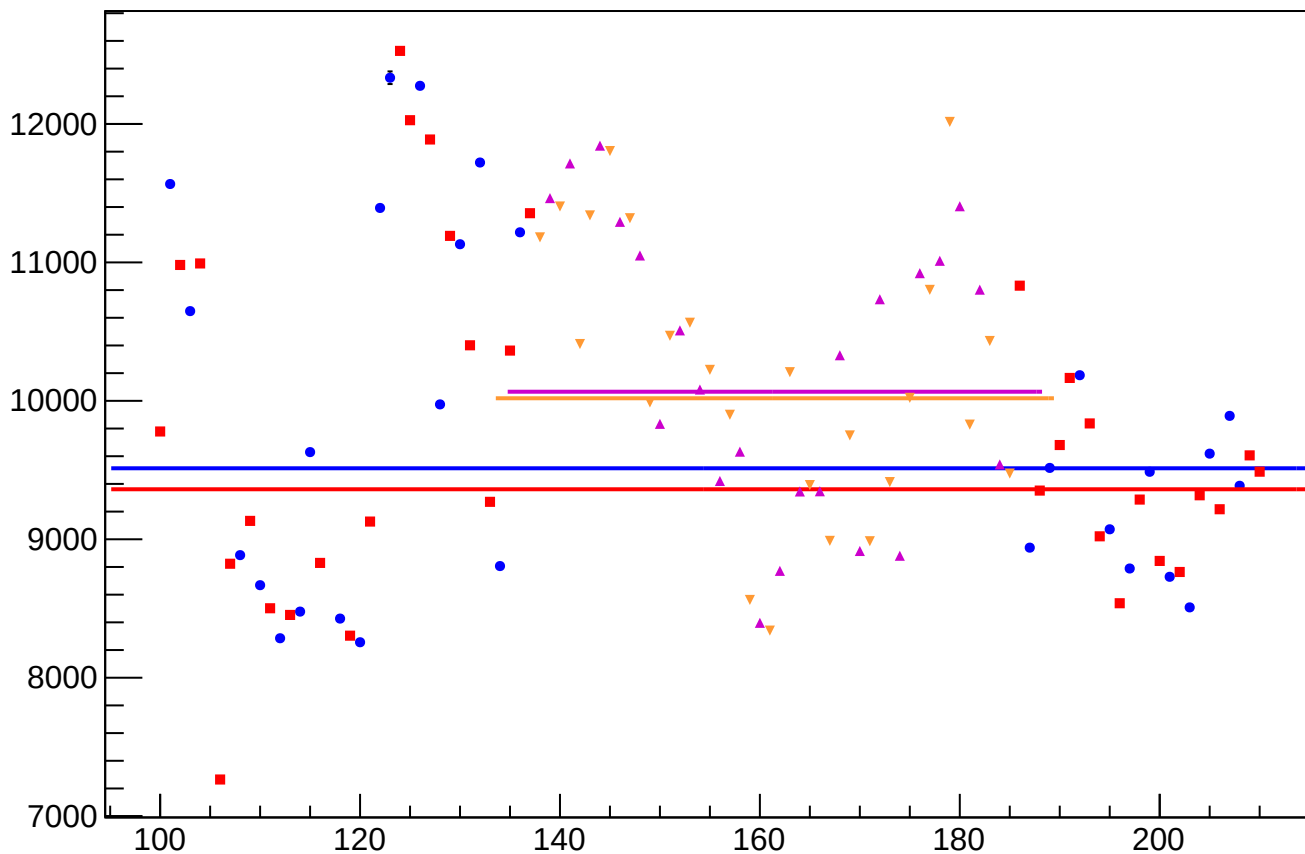
Right: -15.907 ± 1.708 χ^2/NDF : 871.1/60

In: -17.519 ± 1.756 χ^2/NDF : 358.2/50

Out: -10.170 ± 1.653 χ^2/NDF : 556.4/57

All: -13.624 ± 1.204 χ^2/NDF : 924.0/108

diff_bpm0l07X_rms vs Slug, Sign Corrected



Right In: 9512.896 ± 1.786 $\chi^2/\text{NDF}: 333610.5/27$

Left Out: 10018.563 ± 1.668 $\chi^2/\text{NDF}: 344534.6/24$

Right Out: 9361.273 ± 1.639 $\chi^2/\text{NDF}: 327547.0/32$

Left In: 10065.909 ± 1.727 $\chi^2/\text{NDF}: 357868.9/22$

Left: 10041.404 ± 1.200 $\chi^2/\text{NDF}: 702792.3/47$

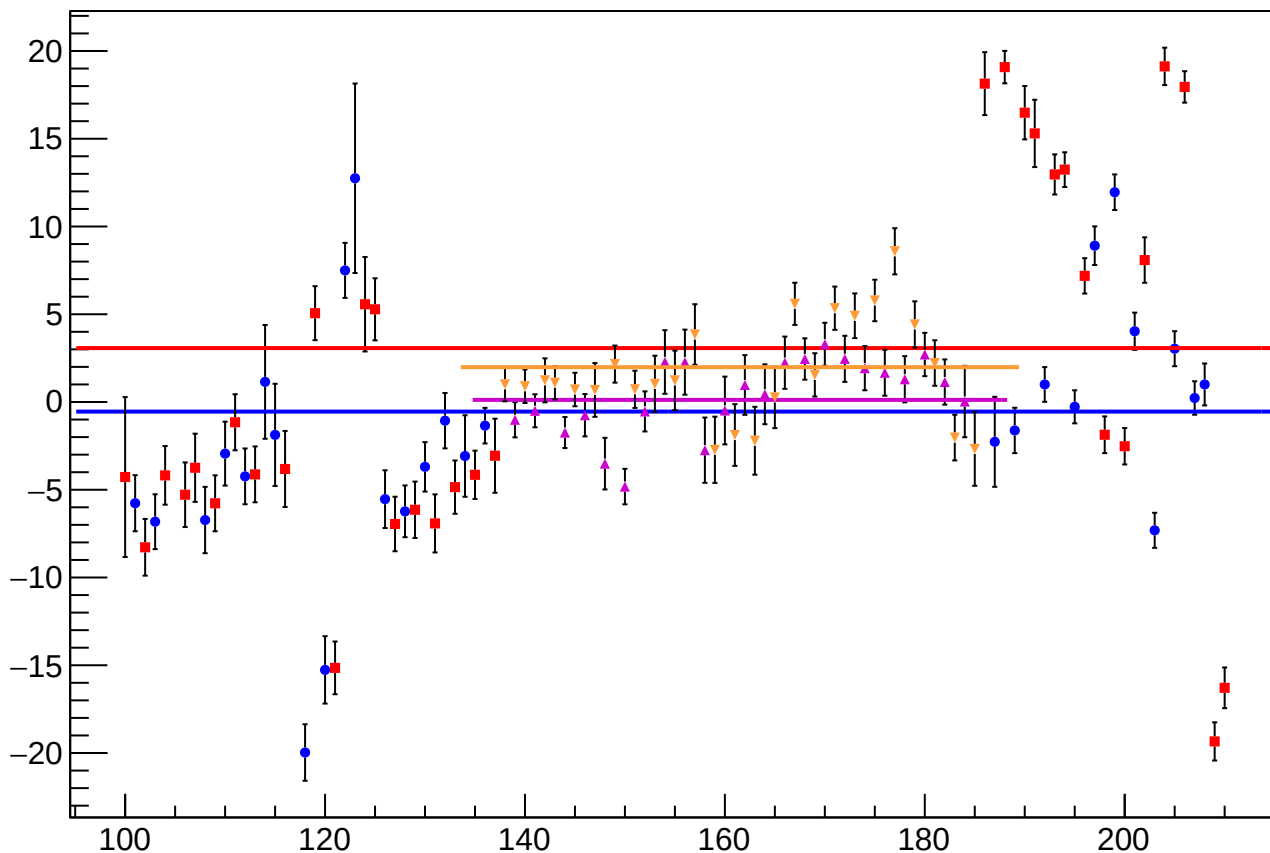
Right: 9430.599 ± 1.208 $\chi^2/\text{NDF}: 665070.4/60$

In: 9798.601 ± 1.242 $\chi^2/\text{NDF}: 741023.8/50$

Out: 9684.220 ± 1.169 $\chi^2/\text{NDF}: 751097.6/57$

All: 9737.969 ± 0.851 $\chi^2/\text{NDF}: 1496620.4/100$

diff_bpm0l07Y_mean vs Slug, Sign Corrected



Right In: -0.546 $\pm$ 0.255 χ^2/NDF : 621.6/27

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

Right Out: 3.072 $\pm$ 0.239 χ^2/NDF : 2456.0/32

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

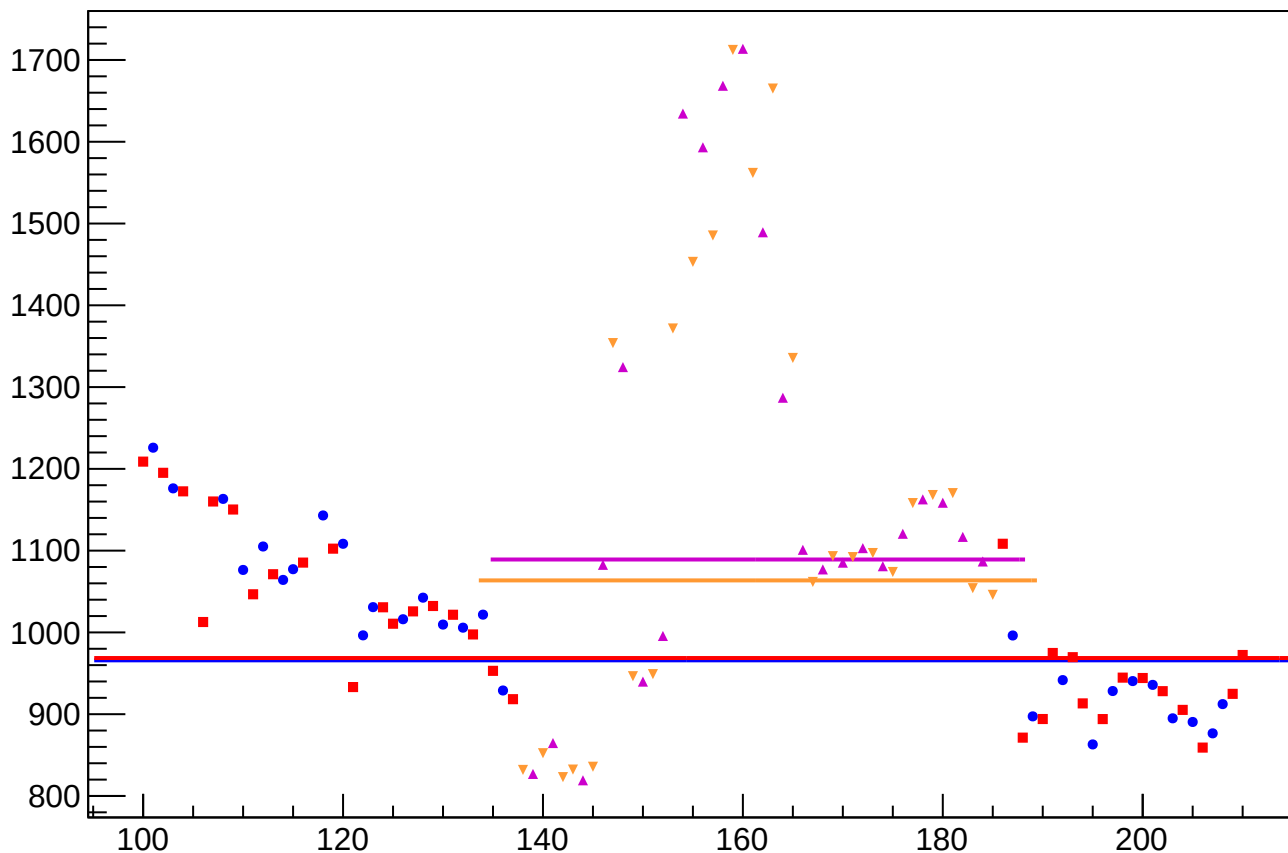
Right: 1.381 $\pm$ 0.174 χ^2/NDF : 3184.9/60

In: -0.231 $\pm$ 0.185 χ^2/NDF :692.5/50

Out: 2.563 $\pm$ 0.174 χ^2/NDF :2566.9/57

All: 1.250 $\pm$ 0.127 χ^2/NDF : 3380.3/108

diff_bpm0l07Y_rms vs Slug, Sign Corrected



Right In: 965.861 $\pm$ 0.180 χ^2 /NDF: 268197.0/27

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

Right Out: 968.676 $\pm$ 0.169 χ^2 /NDF: 269308.3/32

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

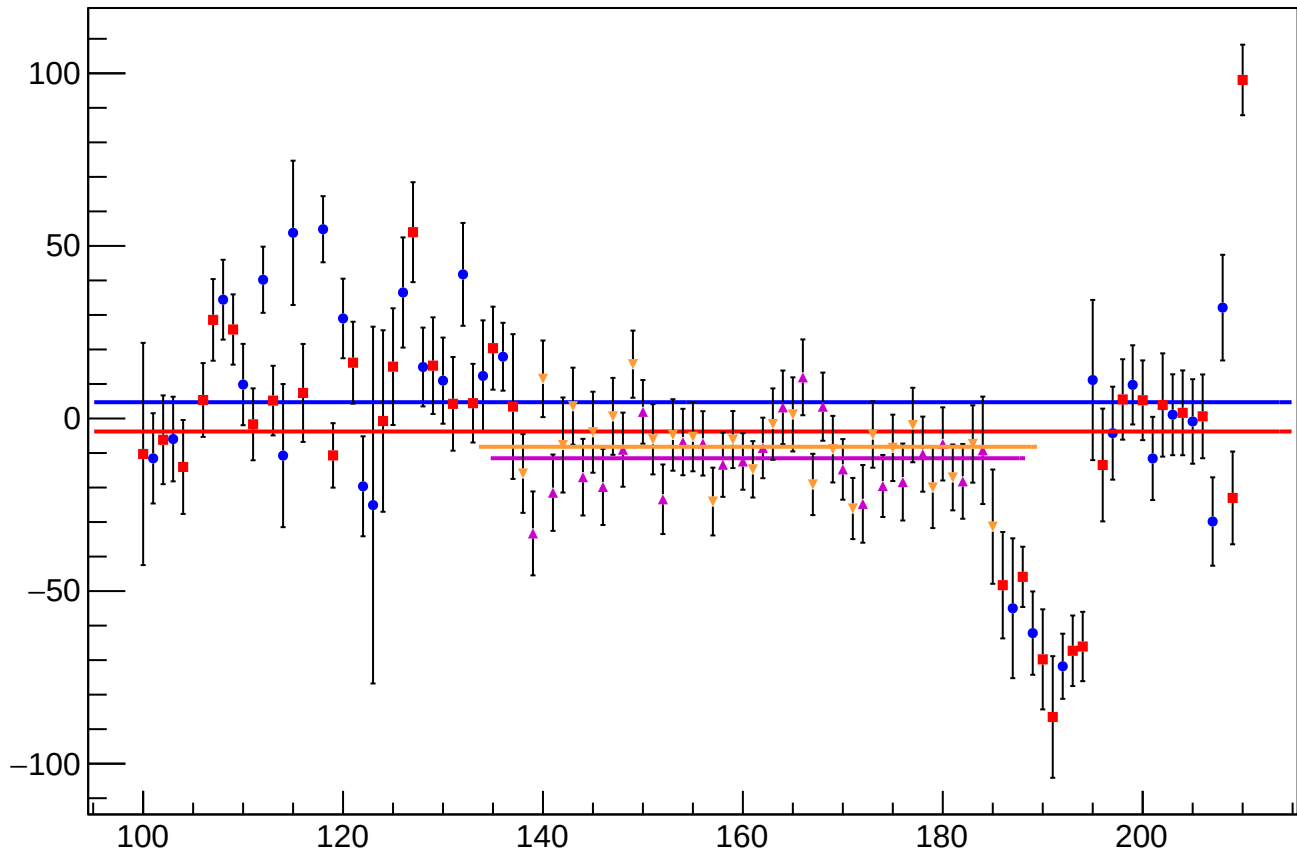
Right: 967.361 $\pm$ 0.123 χ^2 /NDF: 537635.1/60

In: 1024.287 $\pm$ 0.131 χ^2 /NDF:1920232.3/50

Out: 1013.063 $\pm$ 0.123 χ^2 /NDF:2034452.0/57

All: 1018.341 $\pm$ 0.090 χ^2 /NDF: 3958585.8/10

diff_bpm0l08X_mean vs Slug, Sign Corrected



Right In: 4.720 $\pm$ 2.427 χ^2/NDF : 195.5/27

Left Out: -8.195 $\pm$ 2.049 χ^2/NDF : 26.2/24

Right Out: -3.766 $\pm$ 2.161 χ^2/NDF : 301.2/32

Left In: -11.515 $\pm$ 2.122 χ^2/NDF : 21.0/22

Left: -9.796 $\pm$ 1.474 χ^2/NDF : 48.5/47

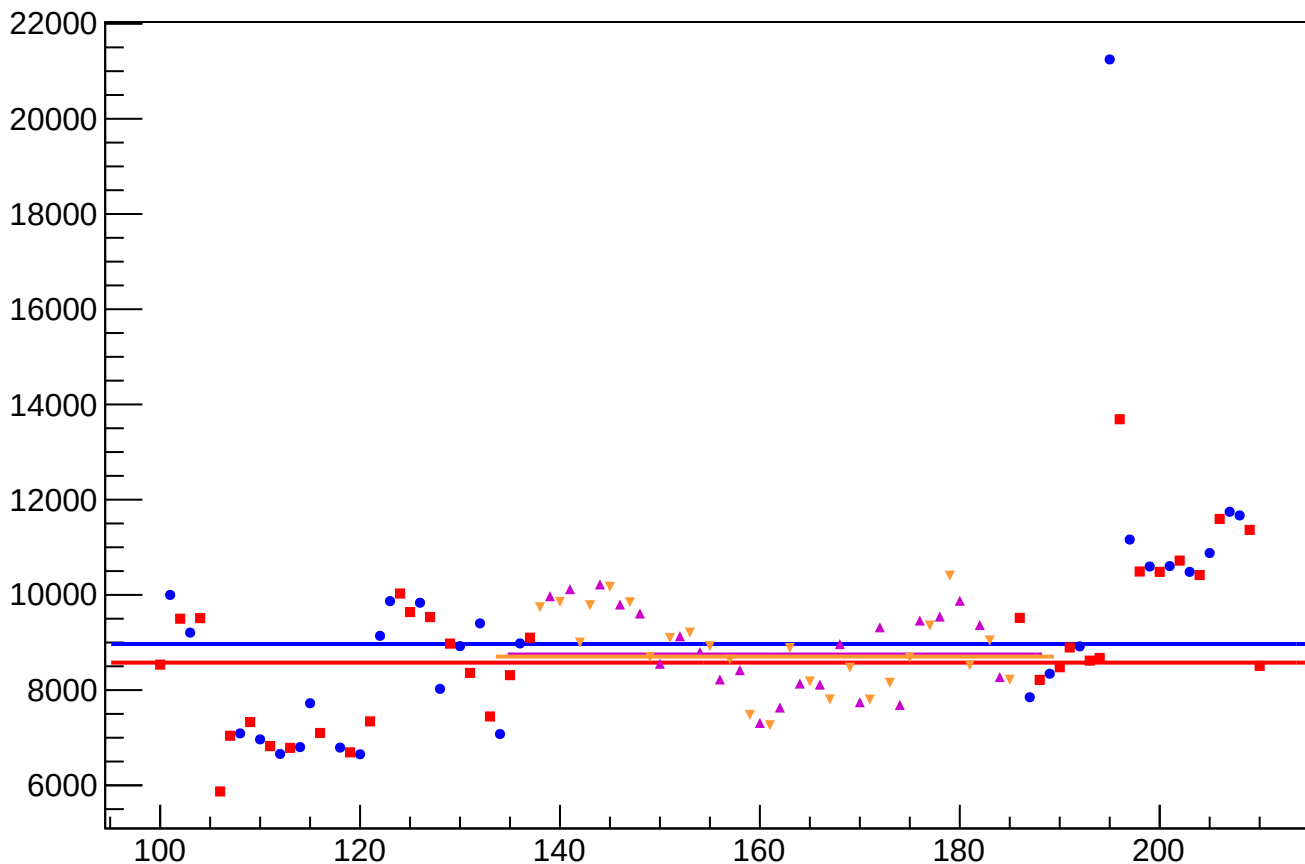
Right: -0.014 $\pm$ 1.614 χ^2/NDF : 503.5/60

In: -4.481 $\pm$ 1.598 χ^2/NDF : 241.9/50

Out: -6.099 $\pm$ 1.487 χ^2/NDF : 329.6/57

All: -5.348 $\pm$ 1.088 χ^2/NDF : 572.0/108

diff_bpm0l08X_rms vs Slug, Sign Corrected



Right In: 8968.482+/-1.716

χ^2/NDF : 1442452.8/27

Left: 8725.041+/-1.042

χ^2/NDF : 679904.0/47

Left Out: 8704.193+/-1.449

χ^2/NDF : 332364.3/24

Right: 8750.304+/-1.141

χ^2/NDF : 2586434.3/60

Right Out: 8577.382+/-1.528

χ^2/NDF : 1115018.8/32

In: 8843.192+/-1.130

χ^2/NDF : 1798964.3/50

Out: 8644.171+/-1.051

χ^2/NDF : 1451010.2/57

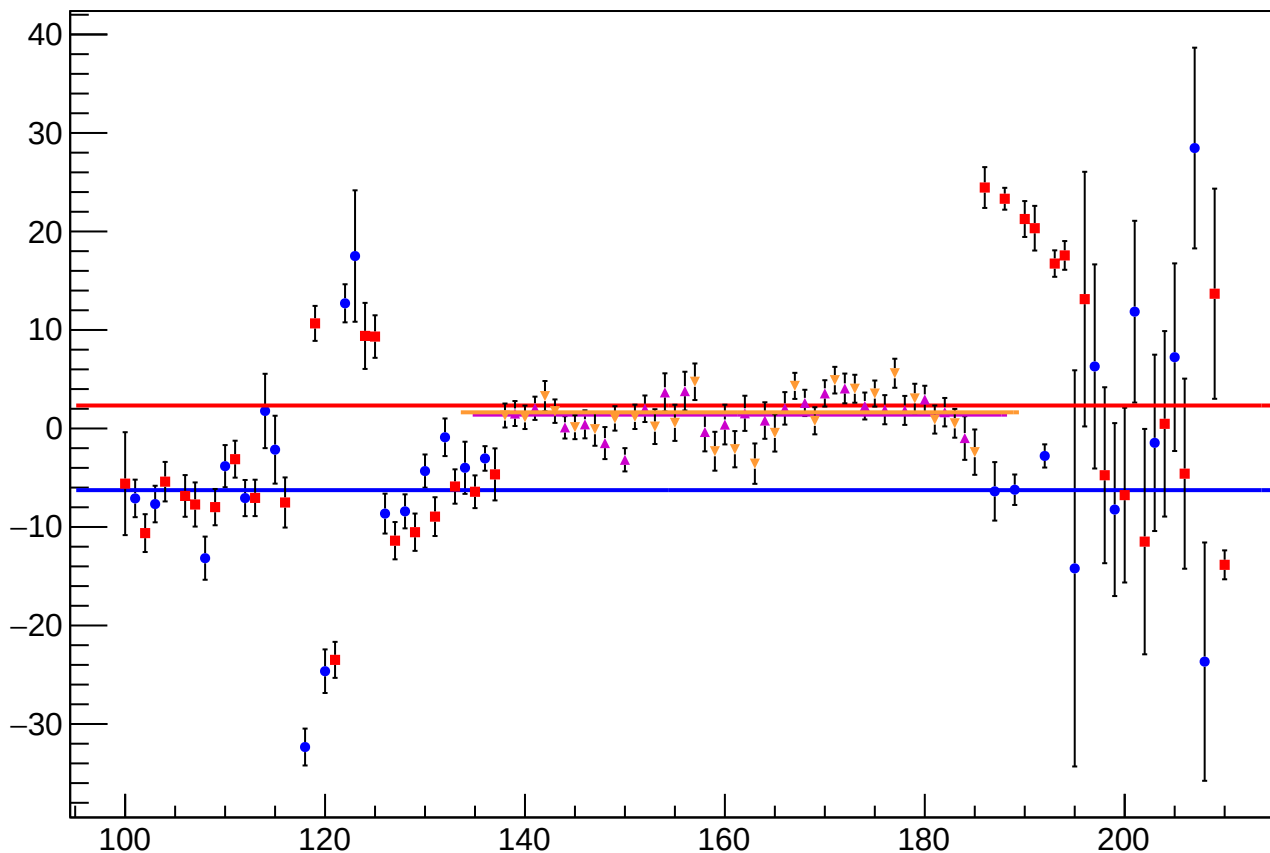
Left In: 8747.415+/-1.501

χ^2/NDF : 347110.4/22

All: 8736.529+/-0.770

χ^2/NDF : 3266605.5/10

diff_bpm0l08Y_mean vs Slug, Sign Corrected



Right In: -6.260 $\pm$ 0.425 χ^2/NDF : 439.9/27

Left Out: 1.639 $\pm$ 0.294 χ^2/NDF : 51.3/24

Right Out: 2.332 $\pm$ 0.361 χ^2/NDF : 1601.0/32

Left In: 1.404 $\pm$ 0.309 χ^2/NDF : 34.1/22

Left: 1.528 $\pm$ 0.213 χ^2/NDF : 85.8/47

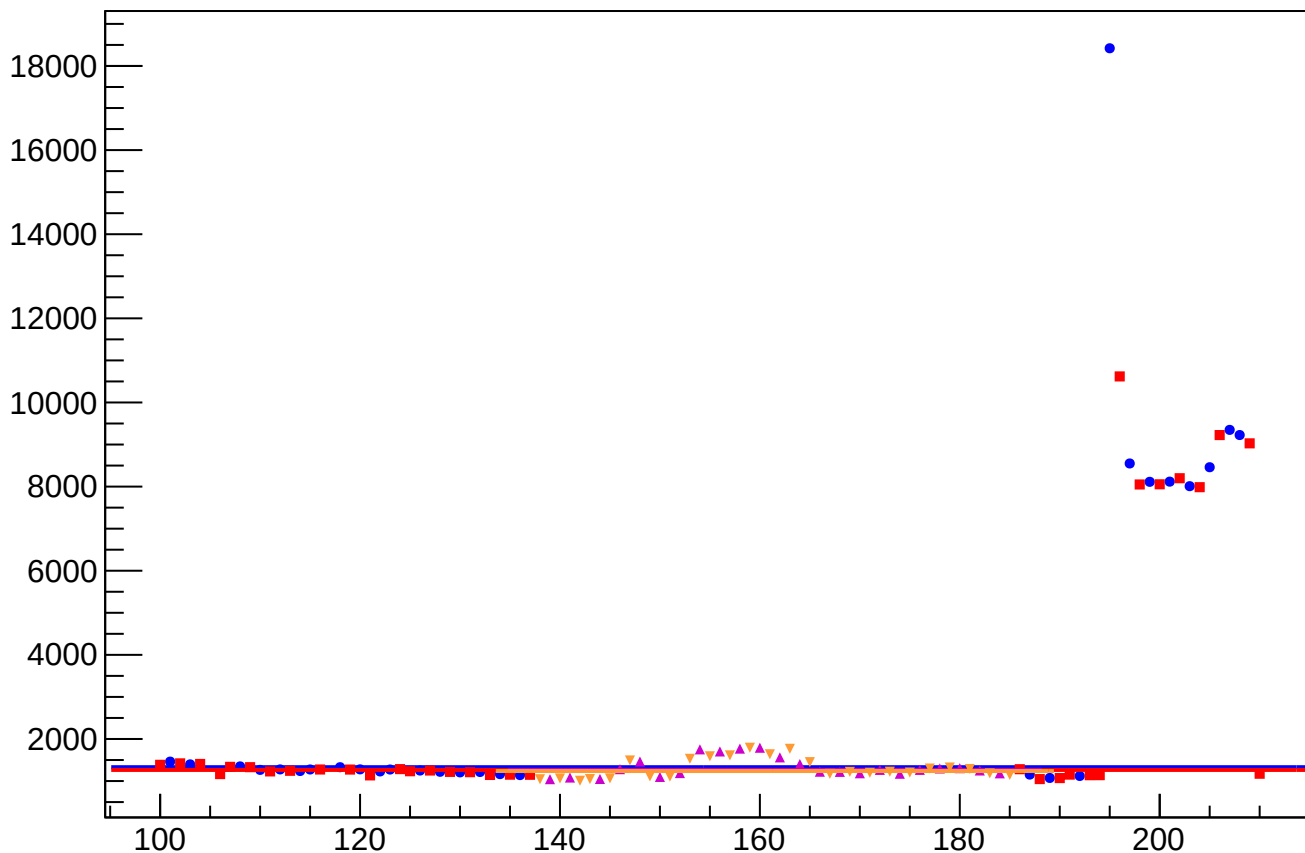
Right: -1.272 $\pm$ 0.275 χ^2/NDF : 2278.6/60

In: -1.248 $\pm$ 0.250 χ^2/NDF : 687.0/50

Out: 1.915 $\pm$ 0.228 χ^2/NDF : 1654.6/57

All: 0.479 $\pm$ 0.168 χ^2/NDF : 2429.1/108

diff_bpm0l08Y_rms vs Slug, Sign Corrected



Right In: 1329.276+/-0.300 χ^2/NDF : 9249761.8/27

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

Right Out: 1264.087+/-0.255 χ^2/NDF : 7763541.3/32

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

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

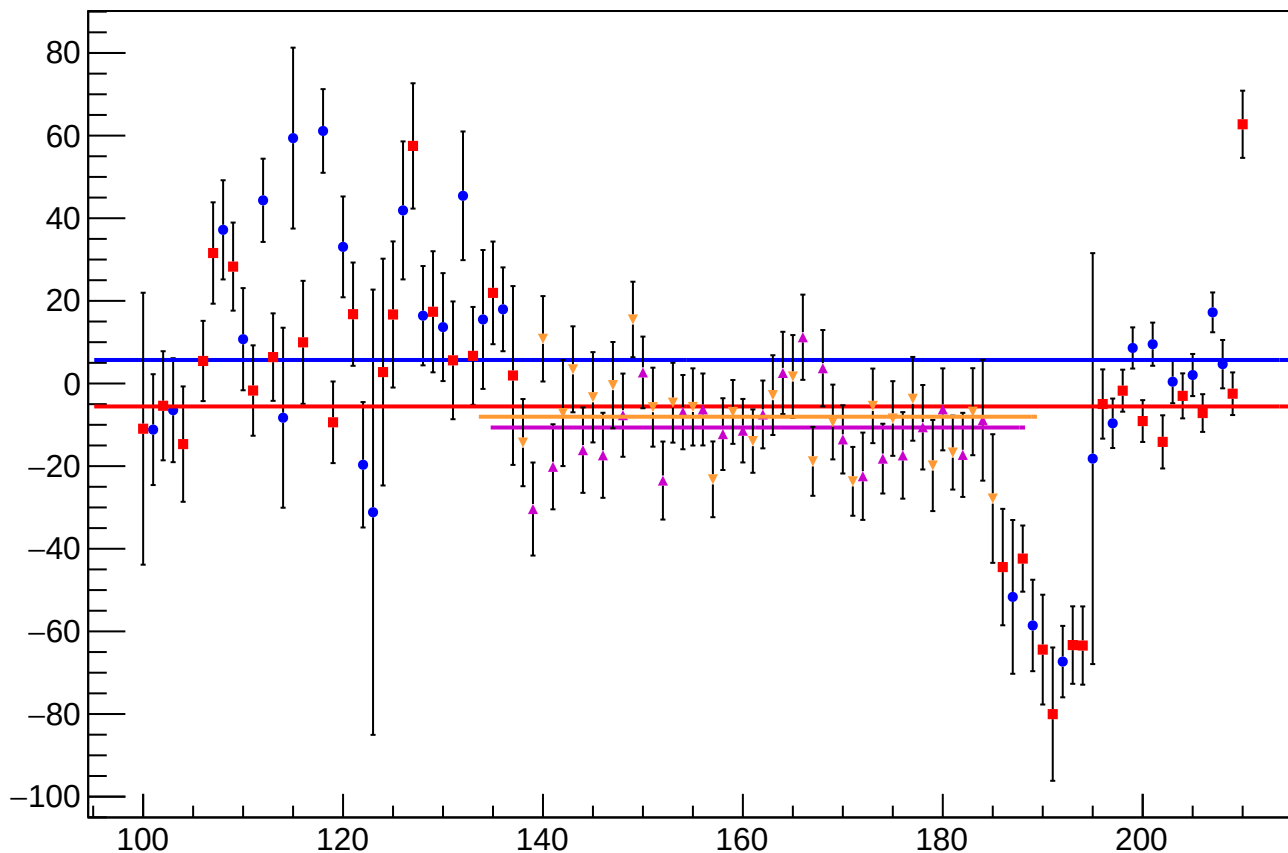
Right: 1291.430+/-0.194 χ^2/NDF : 17040660.0/60

In: 1287.687+/-0.177 χ^2/NDF : 10124250.0/50

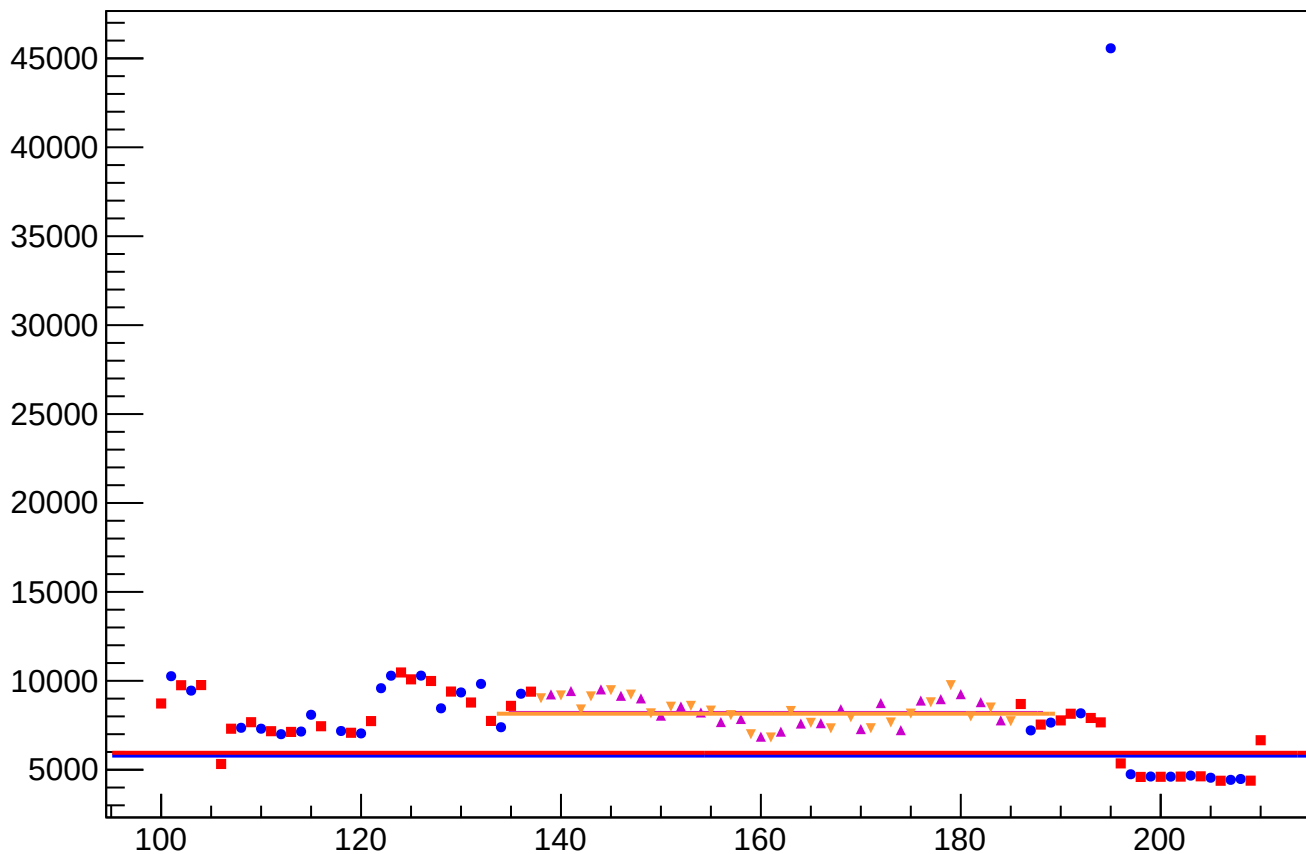
Out: 1248.650+/-0.161 χ^2/NDF : 8734792.1/57

All: 1266.368+/-0.119 χ^2/NDF : 18885704.4/100

diff_bpm0l09X_mean vs Slug, Sign Corrected



diff_bpm0l09X_rms vs Slug, Sign Corrected



Right In: 5796.088+/-1.160

χ^2/NDF : 3734290.9/27

Left: 8171.814+/-0.976 χ^2/NDF : 660646.6/47

Right: 5879.224+/-0.798 χ^2/NDF : 6290869.5/60

Left Out: 8151.489+/-1.356

χ^2/NDF : 321803.3/24

In: 6767.731+/-0.895 χ^2/NDF : 5803454.7/50

Right Out: 5953.902+/-1.100

χ^2/NDF : 2546830.9/32

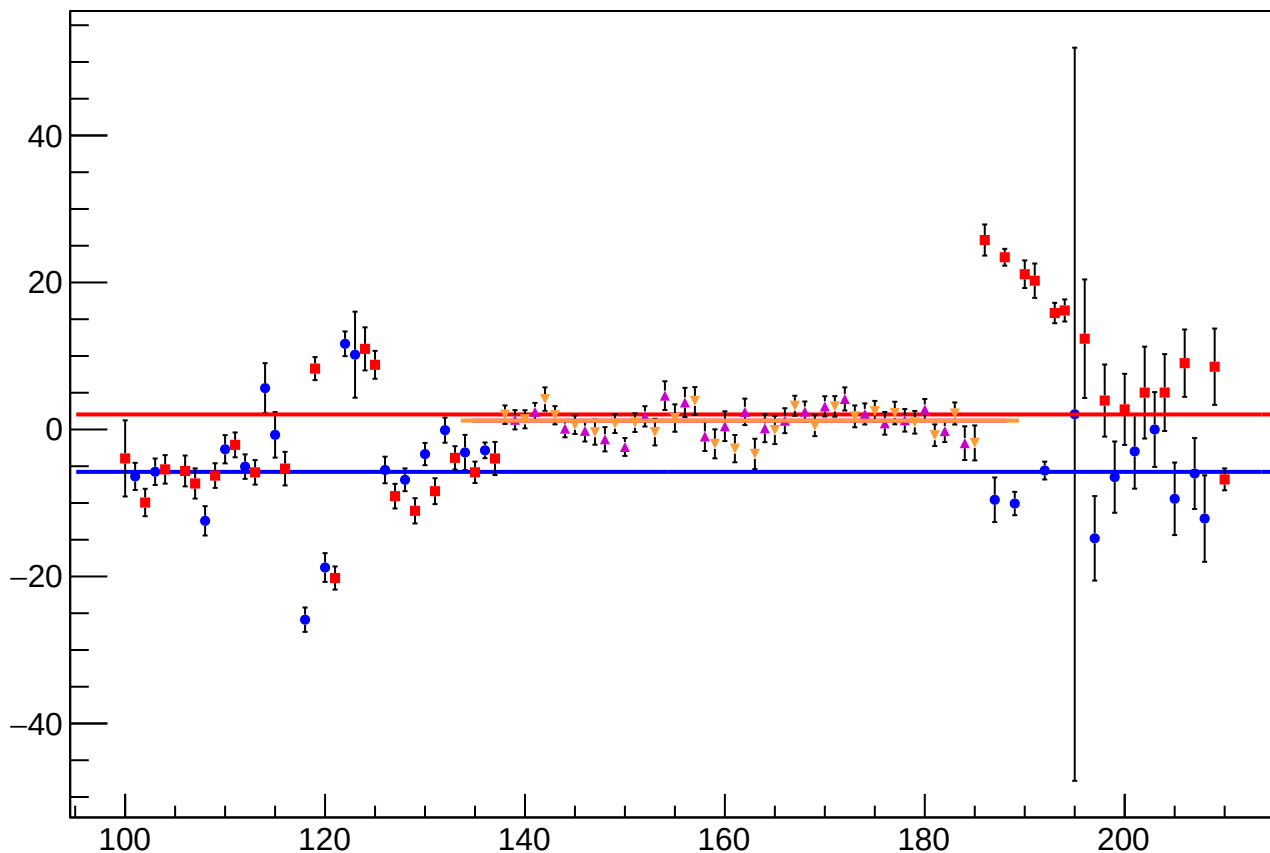
Out: 6825.401+/-0.854 χ^2/NDF : 4452732.5/57

Left In: 8193.636+/-1.405

χ^2/NDF : 338377.6/22

All: 6797.903+/-0.618 χ^2/NDF : 10258360.9/100

diff_bpm0l09Y_mean vs Slug, Sign Corrected



Right In: -5.767 ± 0.387 χ^2/NDF : 371.6/27

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

Right Out: 2.044 ± 0.339 χ^2/NDF : 1449.1/32

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

Left: 1.201 ± 0.219 χ^2/NDF : 61.1/47

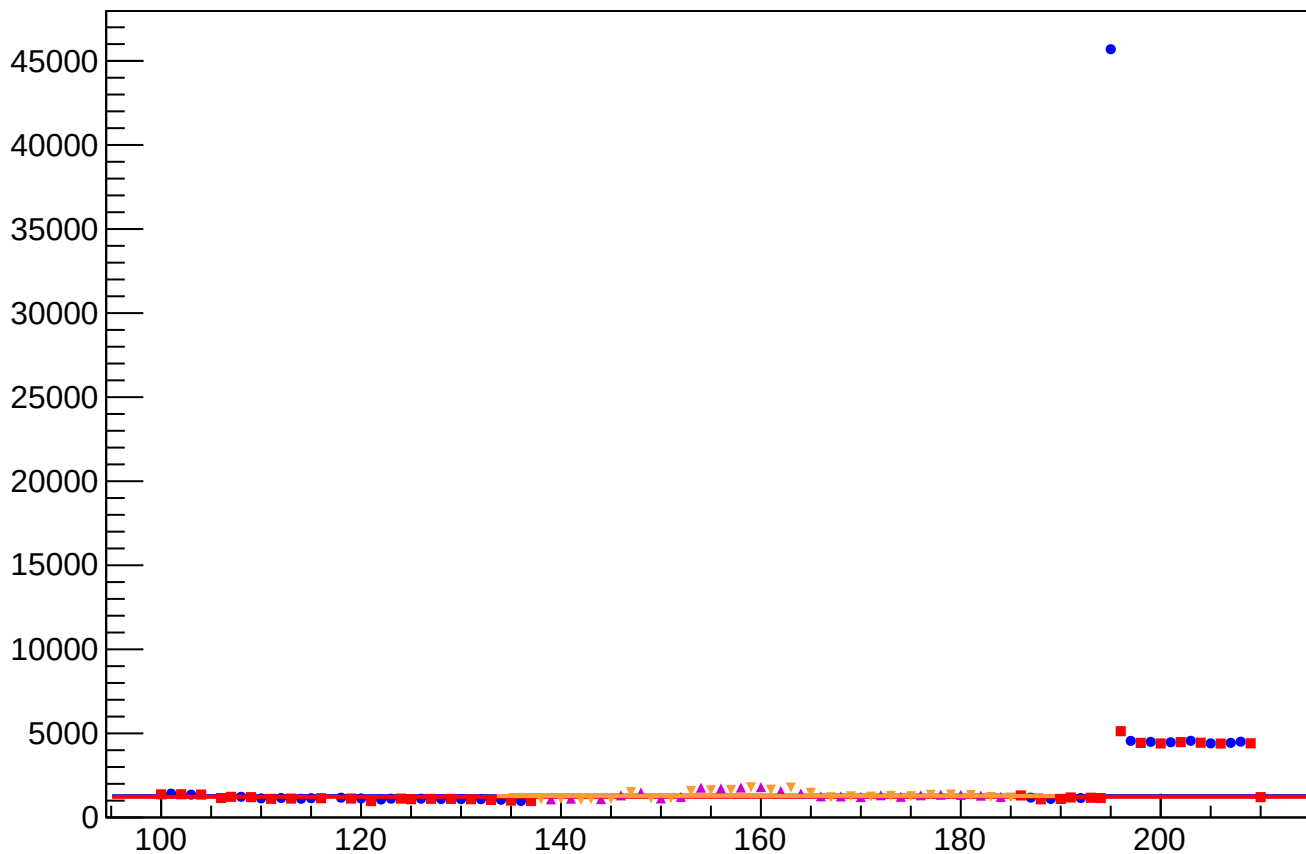
Right: -1.340 ± 0.255 χ^2/NDF : 2051.3/60

In: -1.609 ± 0.246 χ^2/NDF : 595.9/50

Out: 1.577 ± 0.226 χ^2/NDF : 1482.5/57

All: 0.120 ± 0.166 χ^2/NDF : 2169.5/108

diff_bpm0l09Y_rms vs Slug, Sign Corrected



Right In: 1266.041 $\pm$ 0.274 χ^2 /NDF: 7416844.2/27

Left Out: 1277.916 $\pm$ 0.214 χ^2 /NDF: 878127.9/24

Right Out: 1227.965 $\pm$ 0.239 χ^2 /NDF: 5501142.9/32

Left In: 1305.541 $\pm$ 0.225 χ^2 /NDF: 760450.8/22

Left: 1291.030 $\pm$ 0.155 χ^2 /NDF: 1646499.4/47

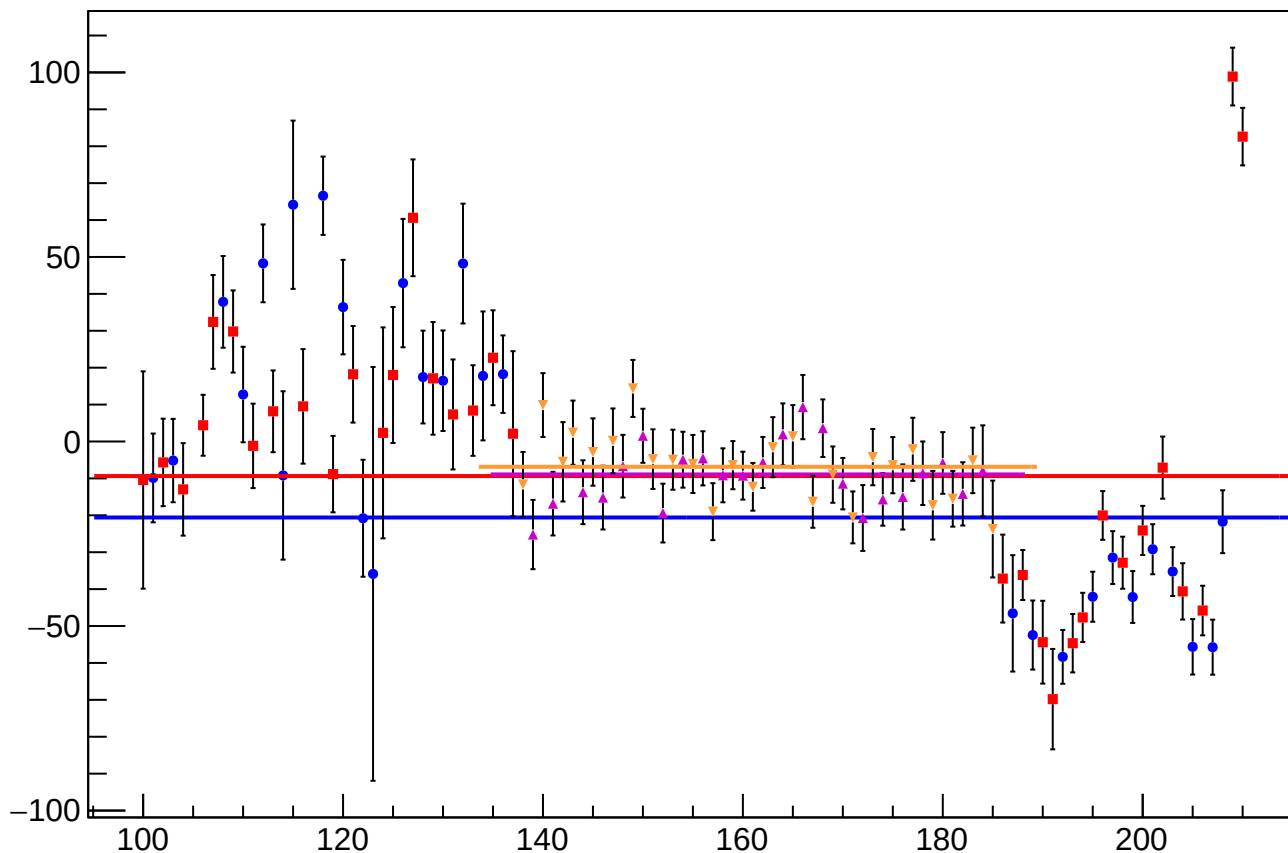
Right: 1244.464 $\pm$ 0.180 χ^2 /NDF: 12928944.1/60

In: 1289.623 $\pm$ 0.174 χ^2 /NDF: 8189718.5/50

Out: 1255.751 $\pm$ 0.160 χ^2 /NDF: 6403478.8/57

All: 1271.235 $\pm$ 0.118 χ^2 /NDF: 14613811.4/100

diff_bpm0l10X_mean vs Slug, Sign Corrected



Right In: -20.594 ± 1.889 χ^2/NDF : 355.3/27

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

Right Out: -9.364 ± 1.708 χ^2/NDF : 588.0/32

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

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

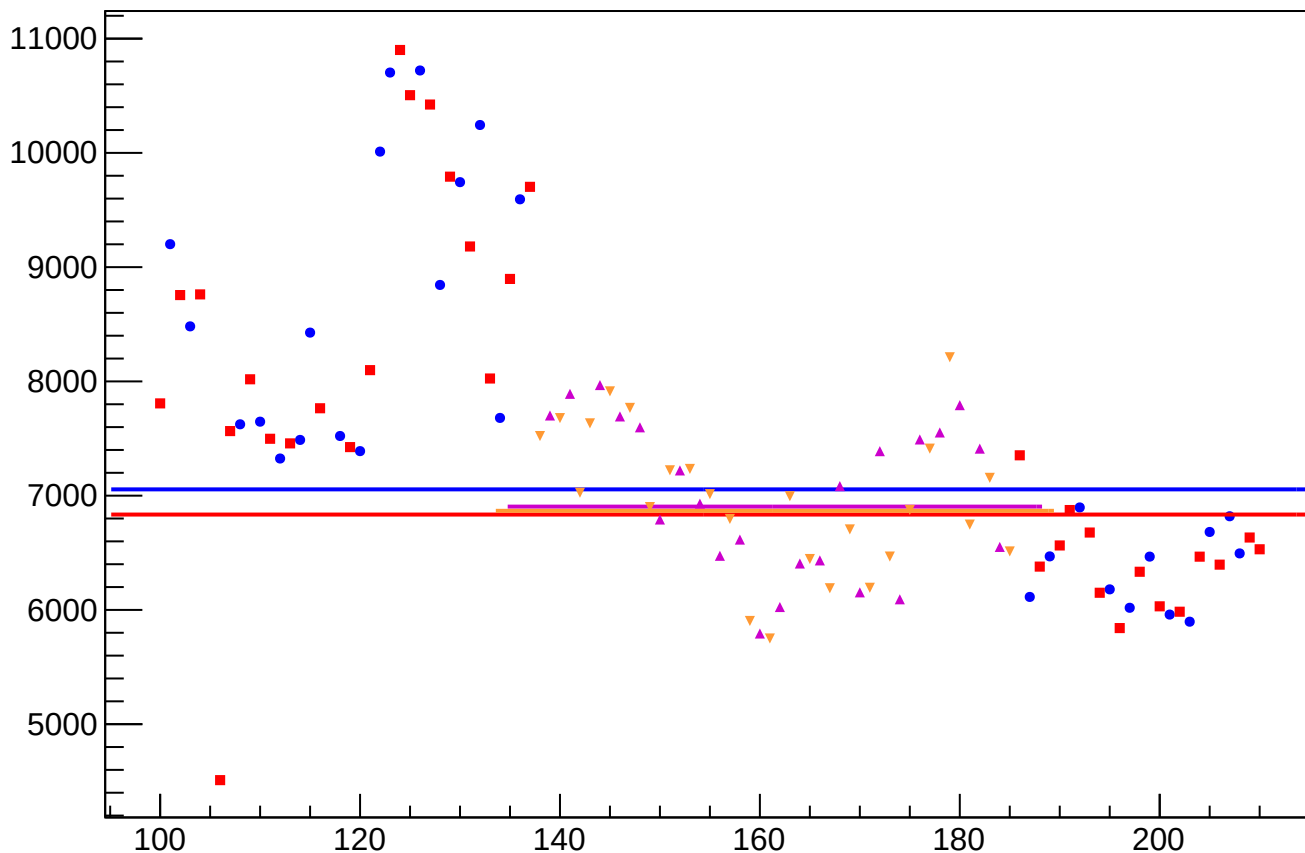
Right: -14.416 ± 1.267 χ^2/NDF : 962.7/60

In: -14.058 ± 1.253 χ^2/NDF : 398.5/50

Out: -8.039 ± 1.174 χ^2/NDF : 617.8/57

All: -10.852 ± 0.857 χ^2/NDF : 1028.6/108

diff_bpm0l10X_rms vs Slug, Sign Corrected



Right In: 7055.057 $\pm$ 1.336 χ^2 /NDF: 834869.8/27

Left Out: 6867.371 $\pm$ 1.142 χ^2 /NDF: 306895.0/24

Right Out: 6834.640 $\pm$ 1.208 χ^2 /NDF: 944240.9/32

Left In: 6904.117 $\pm$ 1.184 χ^2 /NDF: 325912.6/22

Left: 6885.088 $\pm$ 0.822 χ^2 /NDF: 633306.5/47

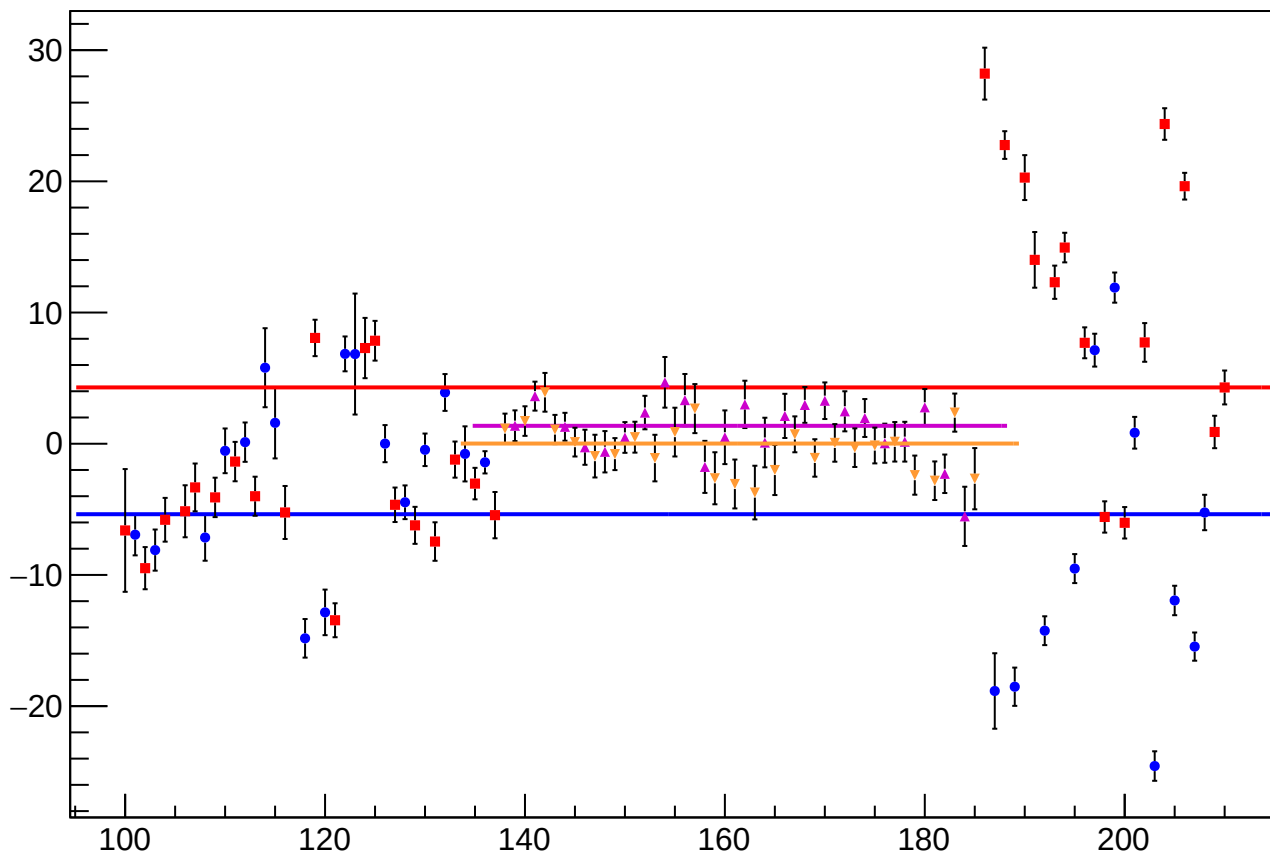
Right: 6933.793 $\pm$ 0.896 χ^2 /NDF: 1794094.7/60

In: 6970.533 $\pm$ 0.886 χ^2 /NDF: 1167934.4/50

Out: 6851.915 $\pm$ 0.830 χ^2 /NDF: 1251523.5/57

All: 6907.354 $\pm$ 0.606 χ^2 /NDF: 2429005.9/100

diff_bpm0l10Y_mean vs Slug, Sign Corrected



Right In: -5.372 ± 0.260 $\chi^2/\text{NDF}: 1247.8/27$

Left Out: 0.014 ± 0.290 $\chi^2/\text{NDF}: 35.0/24$

Right Out: 4.293 ± 0.247 $\chi^2/\text{NDF}: 2066.1/32$

Left In: 1.365 ± 0.306 $\chi^2/\text{NDF}: 38.5/22$

Left: 0.654 ± 0.210 $\chi^2/\text{NDF}: 83.8/47$

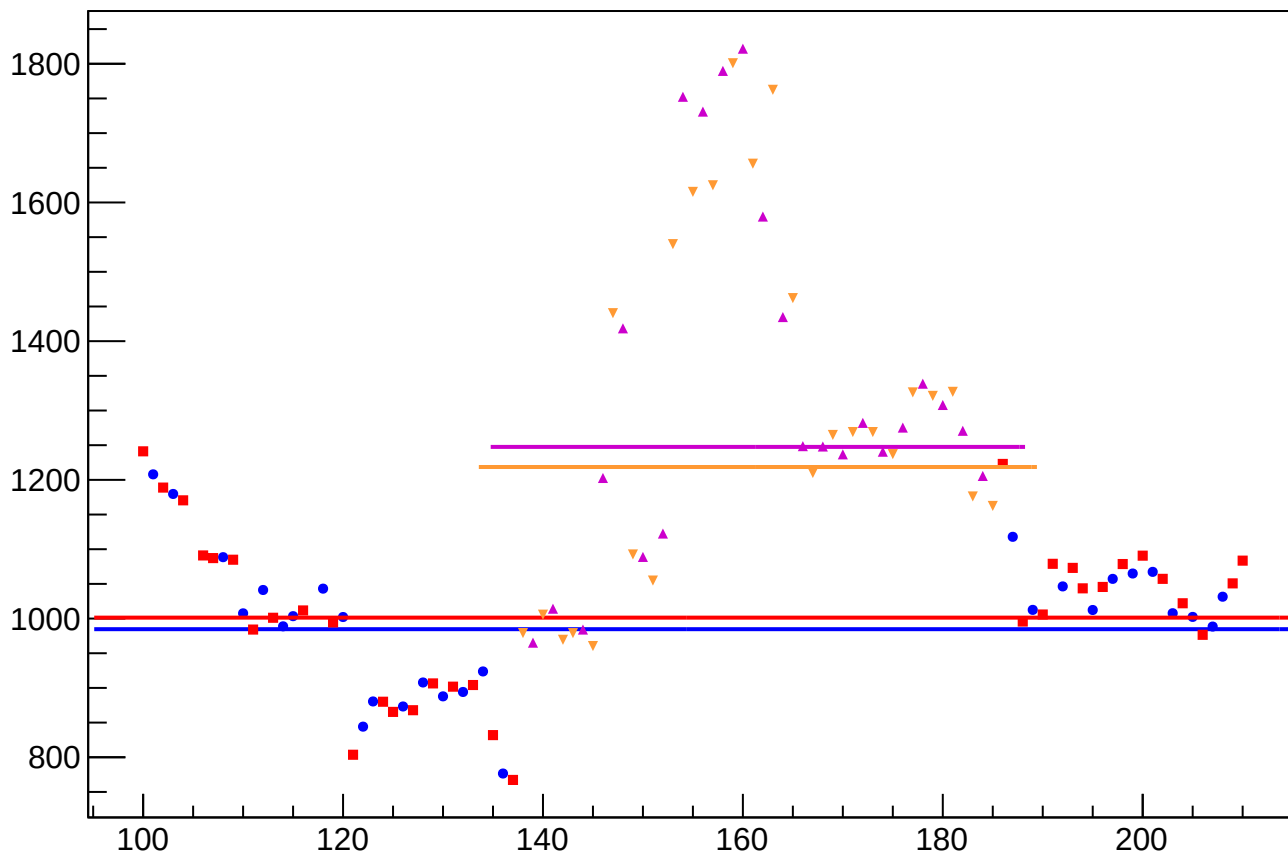
Right: -0.291 ± 0.179 $\chi^2/\text{NDF}: 4039.4/60$

In: -2.539 ± 0.198 $\chi^2/\text{NDF}: 1568.2/50$

Out: 2.492 ± 0.188 $\chi^2/\text{NDF}: 2227.3/57$

All: 0.107 ± 0.136 $\chi^2/\text{NDF}: 4134.9/108$

diff_bpm0l10Y_rms vs Slug, Sign Corrected



Right In: 984.692 $\pm$ 0.184 χ^2 /NDF: 312681.5/27

Left Out: 1218.543 $\pm$ 0.205 χ^2 /NDF:1265847.5/24

Right Out: 1001.348 $\pm$ 0.175 χ^2 /NDF: 335715.4/32

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

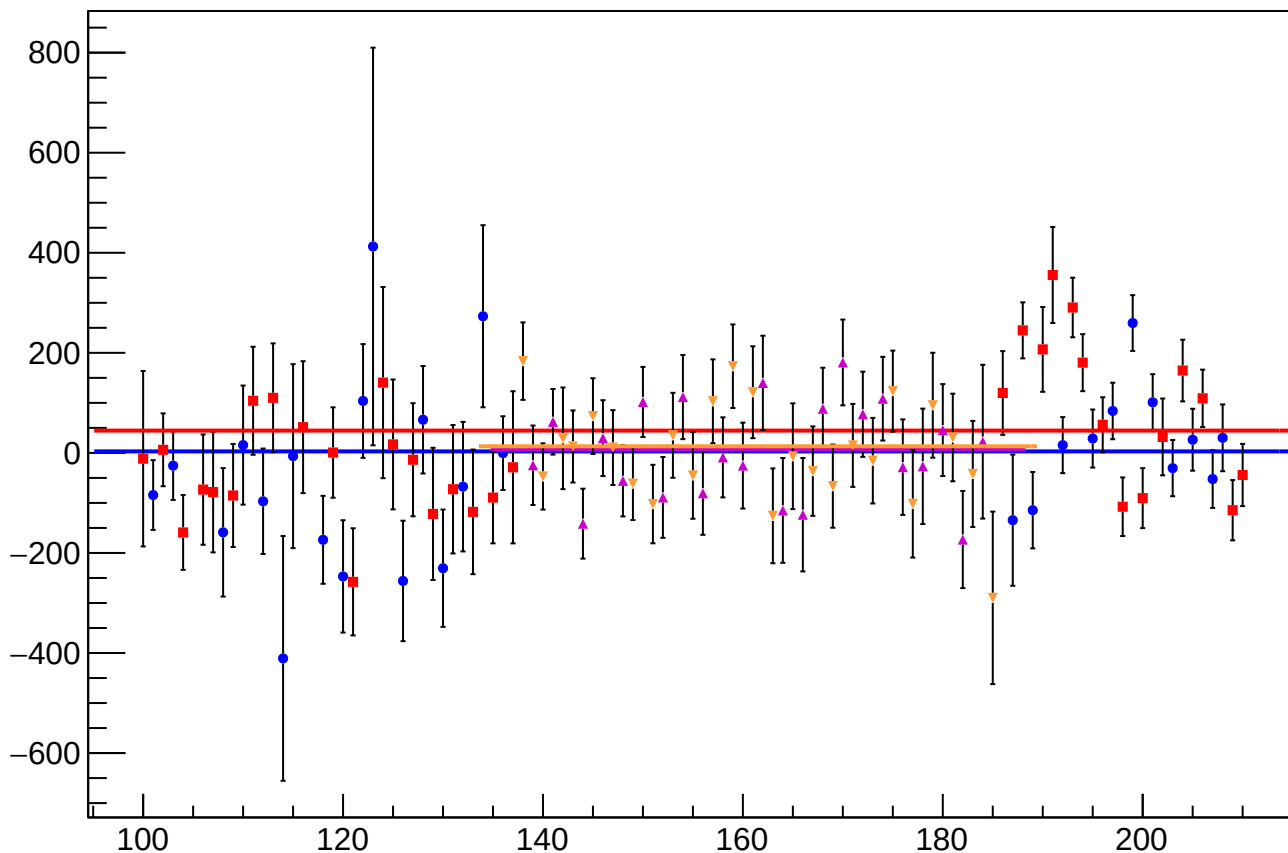
Right: 993.449 $\pm$ 0.127 χ^2 /NDF: 652706.6/60

In: 1095.188 $\pm$ 0.140 χ^2 /NDF:2244199.9/50

Out: 1092.738 $\pm$ 0.133 χ^2 /NDF:2251703.7/57

All: 1093.899 $\pm$ 0.096 χ^2 /NDF: 4496064.6/10

diff_bpm0r03X_mean vs Slug, Sign Corrected



Right In: 3.012 $\pm$ 15.107 χ^2/NDF : 61.0/27

Left Out: 13.207 $\pm$ 17.146 χ^2/NDF : 26.8/24

Right Out: 44.570 $\pm$ 14.053 χ^2/NDF : 104.0/32

Left In: 7.618 $\pm$ 17.672 χ^2/NDF : 28.1/22

Left: 10.497 $\pm$ 12.306 χ^2/NDF : 55.0/47

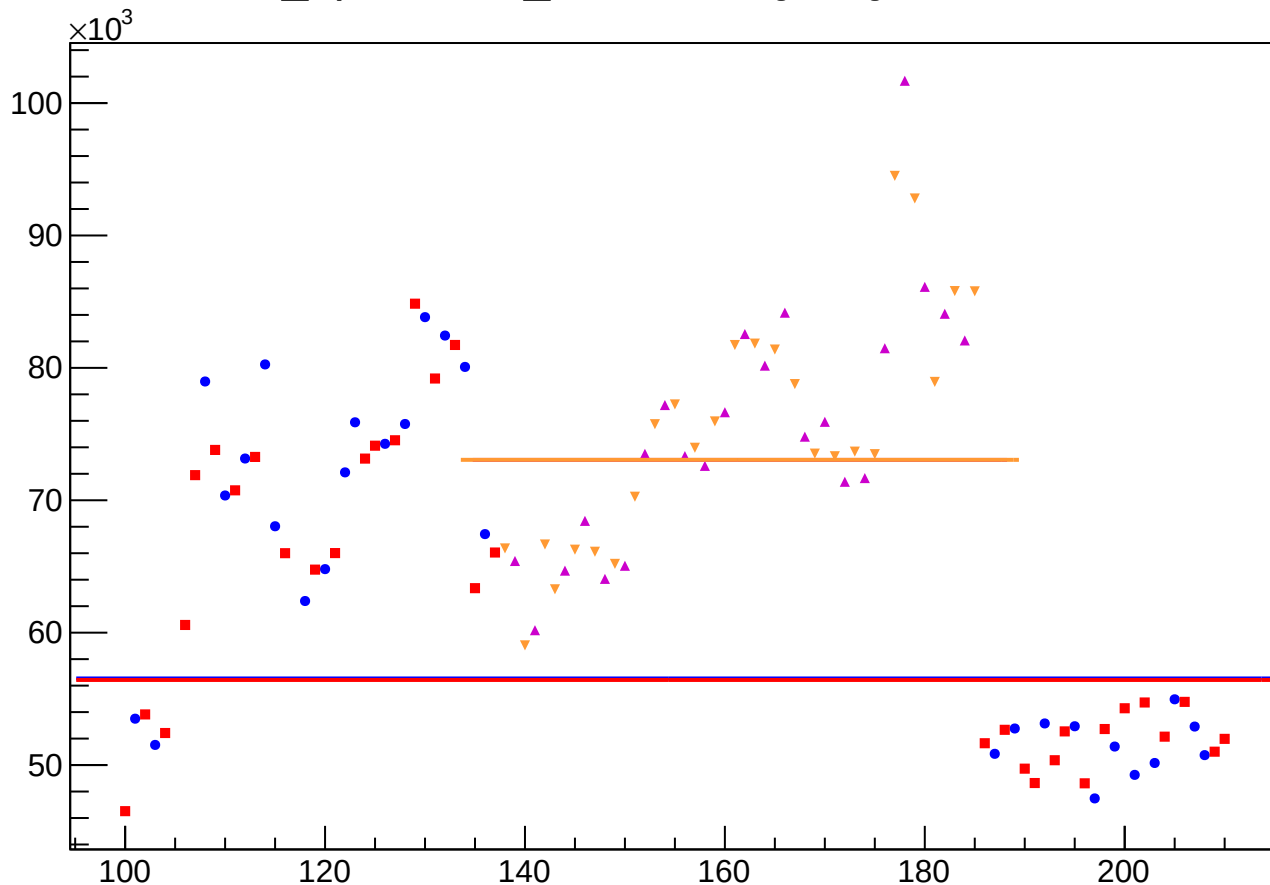
Right: 25.291 $\pm$ 10.290 χ^2/NDF : 169.0/60

In: 4.957 $\pm$ 11.483 χ^2/NDF : 89.1/50

Out: 31.967 $\pm$ 10.869 χ^2/NDF : 132.8/57

All: 19.204 $\pm$ 7.894 χ^2/NDF : 224.9/108

diff_bpm0r03X_rms vs Slug, Sign Corrected



Right In: 56539.772 $\pm$ 10.682

χ^2/NDF : 789840.5/27

Left Out: 73054.401 $\pm$ 12.124

χ^2/NDF : 473050.9/24

Right Out: 56428.689 $\pm$ 9.937

χ^2/NDF : 756254.7/32

Left In: 73045.500 $\pm$ 12.496

χ^2/NDF : 463525.5/22

Left: 73050.085 $\pm$ 8.701

χ^2/NDF : 936576.6/47

Right: 56480.221 $\pm$ 7.276

χ^2/NDF : 1546153.2/60

In: 63509.149 $\pm$ 8.120

χ^2/NDF : 2261446.8/50

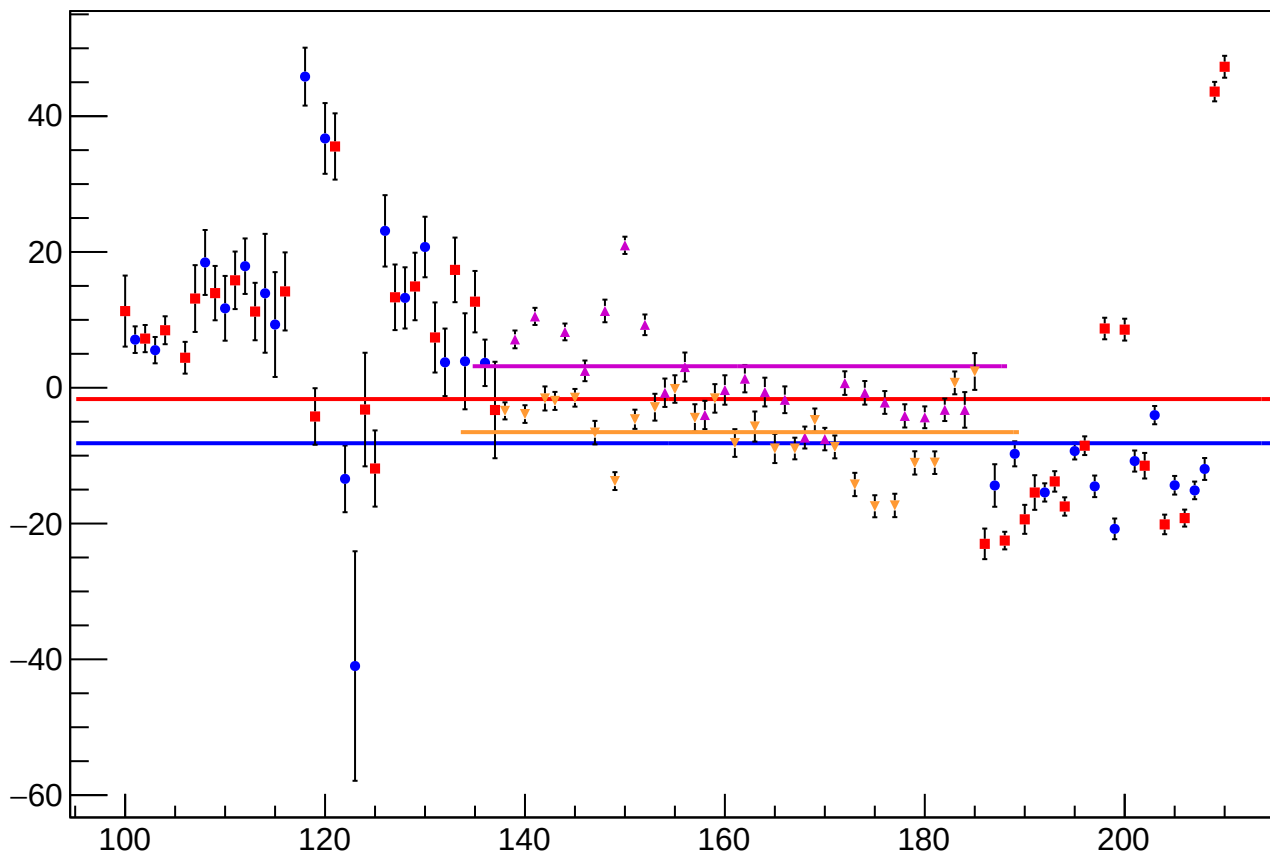
Out: 63109.470 $\pm$ 7.686

χ^2/NDF : 2354114.3/57

All: 63298.339 $\pm$ 5.582

χ^2/NDF : 4616839.0/100

diff_bpm0r03Y_mean vs Slug, Sign Corrected



Right In: -8.170+/-0.407 χ^2/NDF : 756.8/27

Left Out: -6.537+/-0.332 χ^2/NDF :252.7/24

Right Out: -1.666+/-0.376 χ^2/NDF : 3289.0/32

Left In: 3.171+/-0.346 χ^2/NDF :487.3/22

Left: -1.892+/-0.240 χ^2/NDF : 1149.5/47

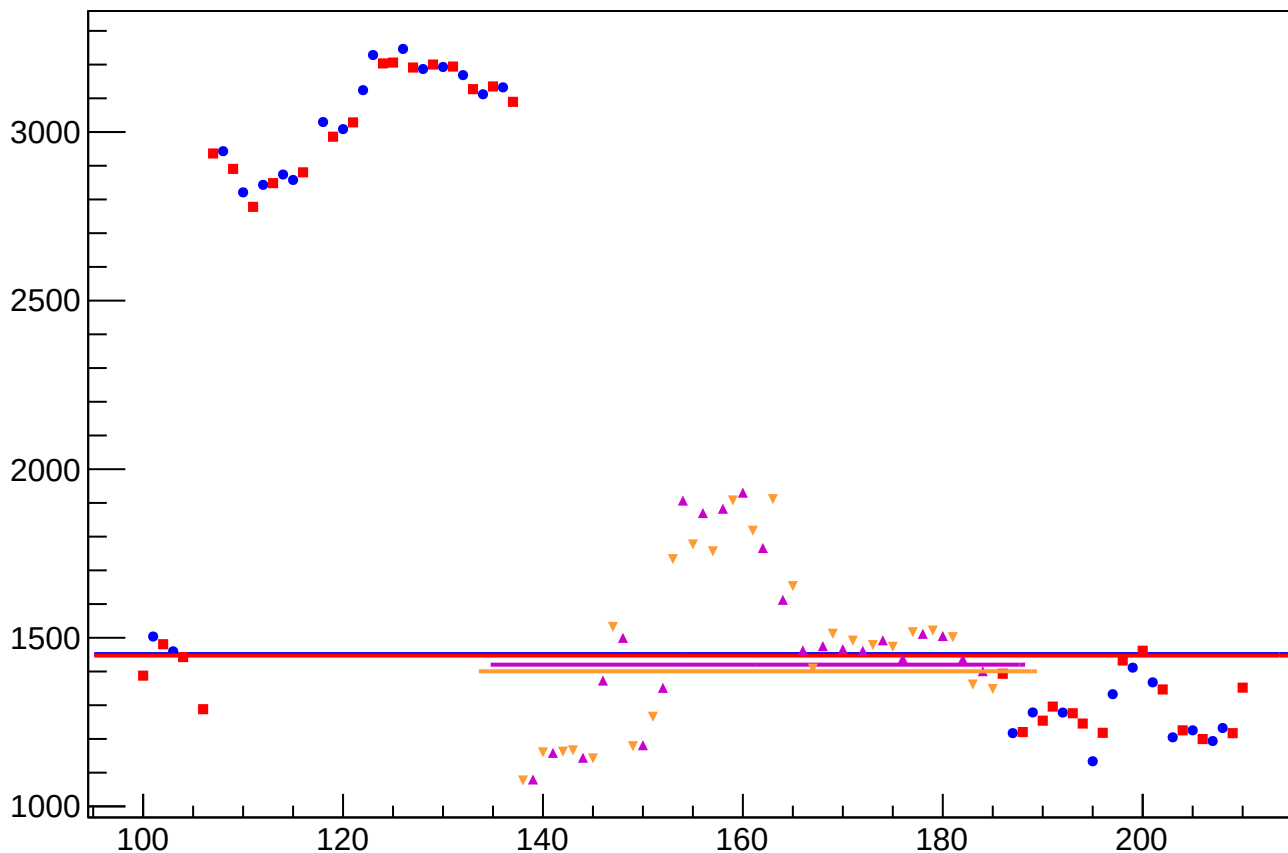
Right: -4.659+/-0.276 χ^2/NDF : 4183.4/60

In: -1.589+/-0.264 χ^2/NDF :1693.8/50

Out: -4.405+/-0.249 χ^2/NDF :3636.0/57

All: -3.080+/-0.181 χ^2/NDF : 5390.1/108

diff_bpm0r03Y_rms vs Slug, Sign Corrected



Right In: 1451.657+/-0.288

χ^2/NDF : 3534153.5/27

Left: 1410.037+/-0.169 χ^2/NDF : 1946462.8/47

Right: 1449.278+/-0.195 χ^2/NDF : 7070882.8/60

Left Out: 1400.637+/-0.235

χ^2/NDF : 1037921.6/24

In: 1433.450+/-0.187 χ^2/NDF : 4446221.5/50

Right Out: 1447.250+/-0.266

χ^2/NDF : 3536603.0/32

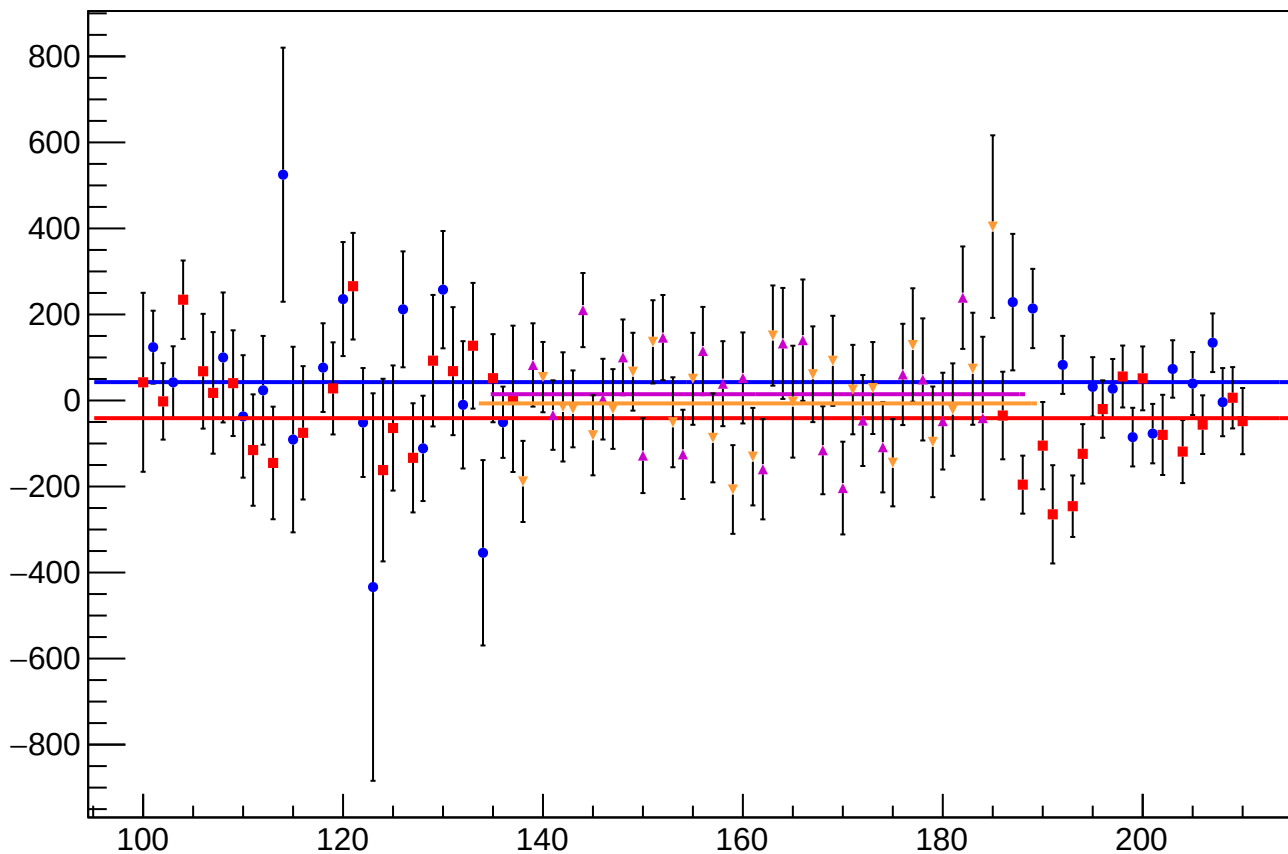
Out: 1421.035+/-0.176 χ^2/NDF : 4591796.7/57

Left In: 1420.285+/-0.245

χ^2/NDF : 905186.2/22

All: 1426.877+/-0.128 χ^2/NDF : 9040360.8/10

diff_bpm0r05X_mean vs Slug, Sign Corrected



Right In: 42.707 ± 18.013 χ^2/NDF : 32.9/27

Left Out: -6.789 ± 21.213 χ^2/NDF : 24.7/24

Right Out: -41.085 ± 16.838 χ^2/NDF : 47.1/32

Left In: 14.611 ± 21.846 χ^2/NDF : 29.8/22

Left: 3.596 ± 15.219 χ^2/NDF : 55.0/47

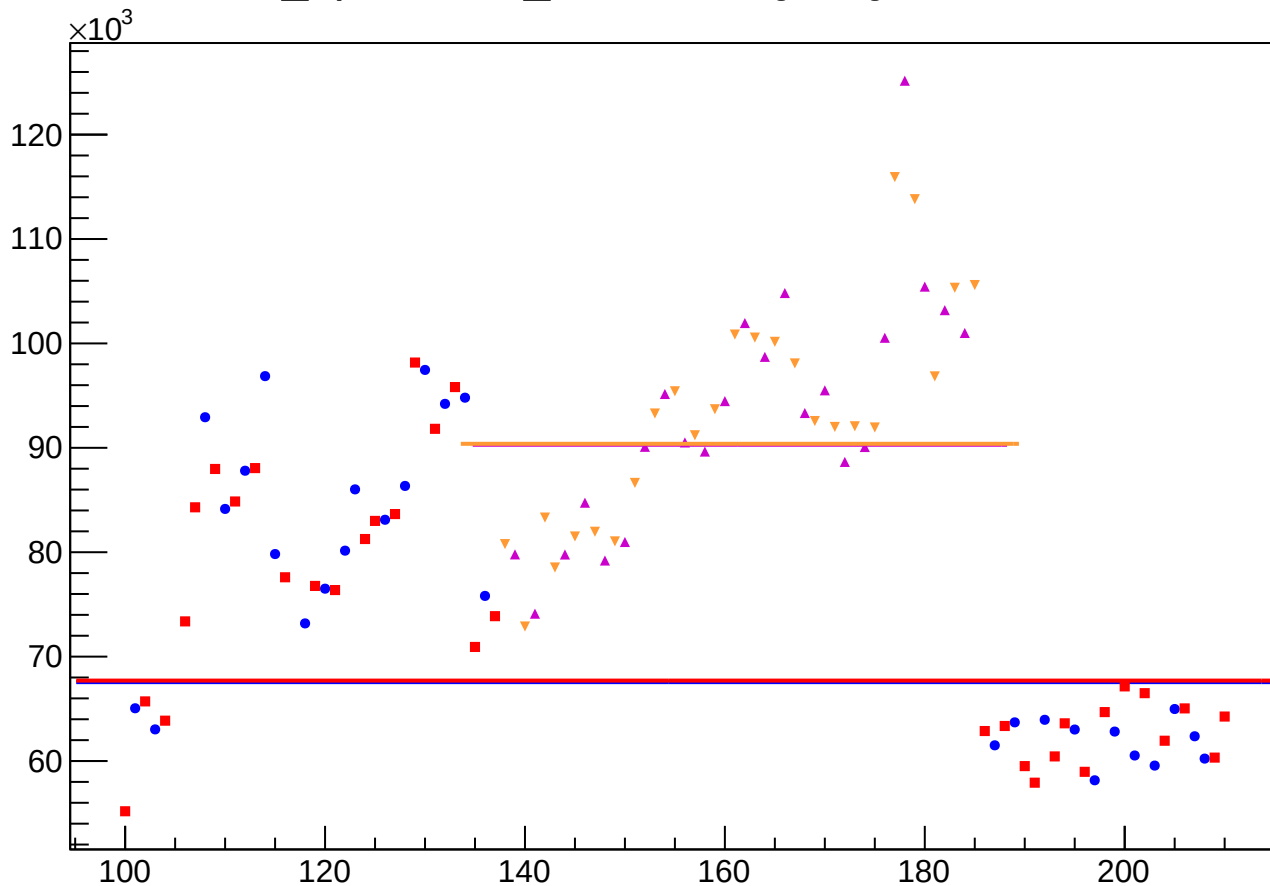
Right: -2.011 ± 12.301 χ^2/NDF : 91.6/60

In: 31.336 ± 13.898 χ^2/NDF : 63.7/50

Out: -27.829 ± 13.188 χ^2/NDF : 73.4/57

All: 0.205 ± 9.567 χ^2/NDF : 146.6/108

diff_bpm0r05X_rms vs Slug, Sign Corrected



Right In: 67556.635 $\pm$ 12.737

χ^2/NDF : 641246.3/27

Left Out: 90384.853 $\pm$ 15.000

χ^2/NDF : 461648.2/24

Right Out: 67705.096 $\pm$ 11.906

χ^2/NDF : 632792.3/32

Left In: 90293.591 $\pm$ 15.448

χ^2/NDF : 461337.5/22

Left: 90340.563 $\pm$ 10.761

χ^2/NDF : 923003.7/47

Right: 67635.865 $\pm$ 8.698

χ^2/NDF : 1274111.1/60

In: 76758.817 $\pm$ 9.827

χ^2/NDF : 2392212.0/50

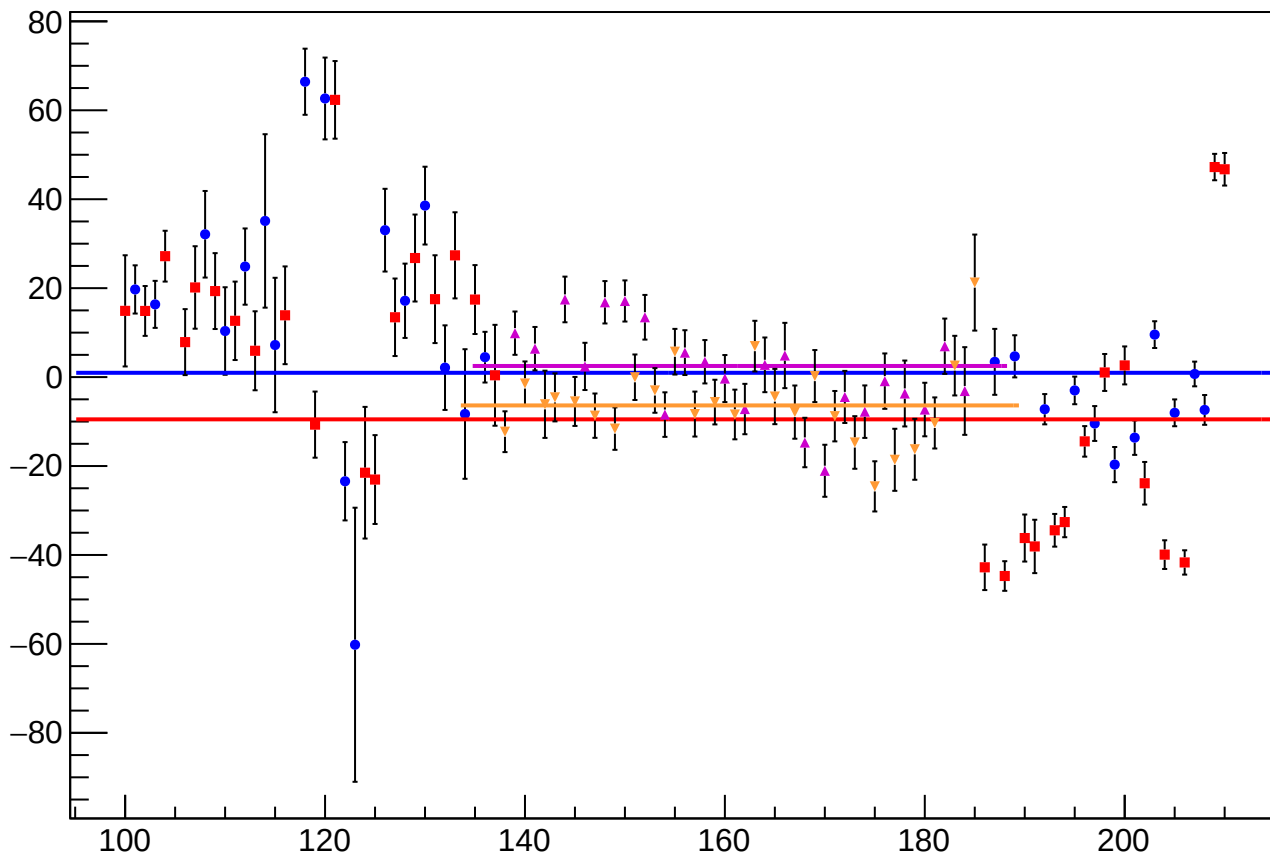
Out: 76471.436 $\pm$ 9.326

χ^2/NDF : 2496907.7/57

All: 76607.603 $\pm$ 6.765

χ^2/NDF : 4889569.6/100

diff_bpm0r05Y_mean vs Slug, Sign Corrected



Right In: 0.967 $\pm$ 0.942 χ^2/NDF : 292.8/27

Left Out: -6.370 $\pm$ 1.124 χ^2/NDF : 45.5/24

Right Out: -9.503 $\pm$ 0.887 χ^2/NDF : 1379.4/32

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

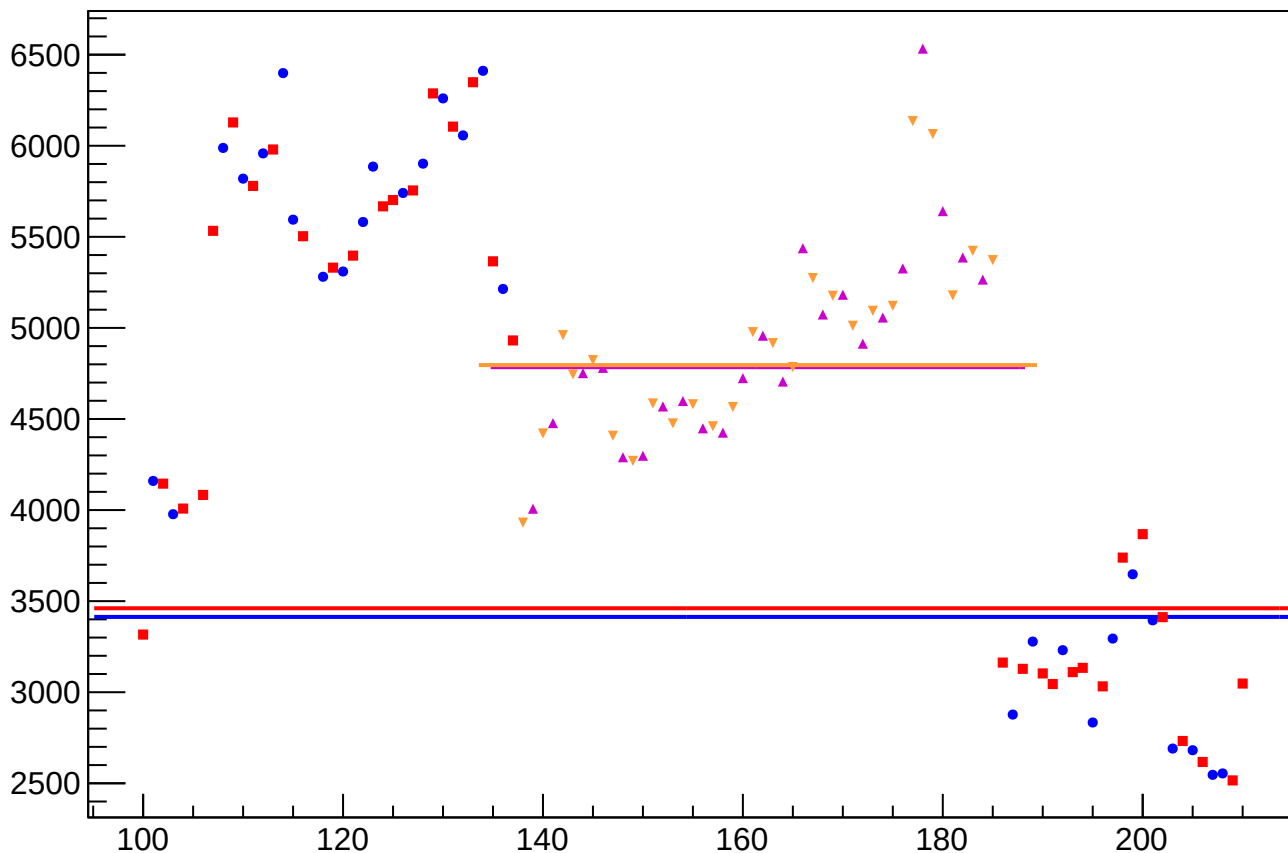
Right: -4.582 $\pm$ 0.645 χ^2/NDF : 1737.7/60

In: 1.579 $\pm$ 0.730 χ^2/NDF : 372.3/50

Out: -8.301 $\pm$ 0.696 χ^2/NDF : 1429.6/57

All: -3.596 $\pm$ 0.504 χ^2/NDF : 1897.9/108

diff_bpm0r05Y_rms vs Slug, Sign Corrected



Right In: 3413.410 ± 0.666 $\chi^2/\text{NDF}: 2539041.7/27$

Left Out: 4795.847 ± 0.795 $\chi^2/\text{NDF}: 361249.7/24$

Right Out: 3460.873 ± 0.627 $\chi^2/\text{NDF}: 2538559.7/32$

Left In: 4784.434 ± 0.817 $\chi^2/\text{NDF}: 357507.2/22$

Left: 4790.301 ± 0.570 $\chi^2/\text{NDF}: 718857.1/47$

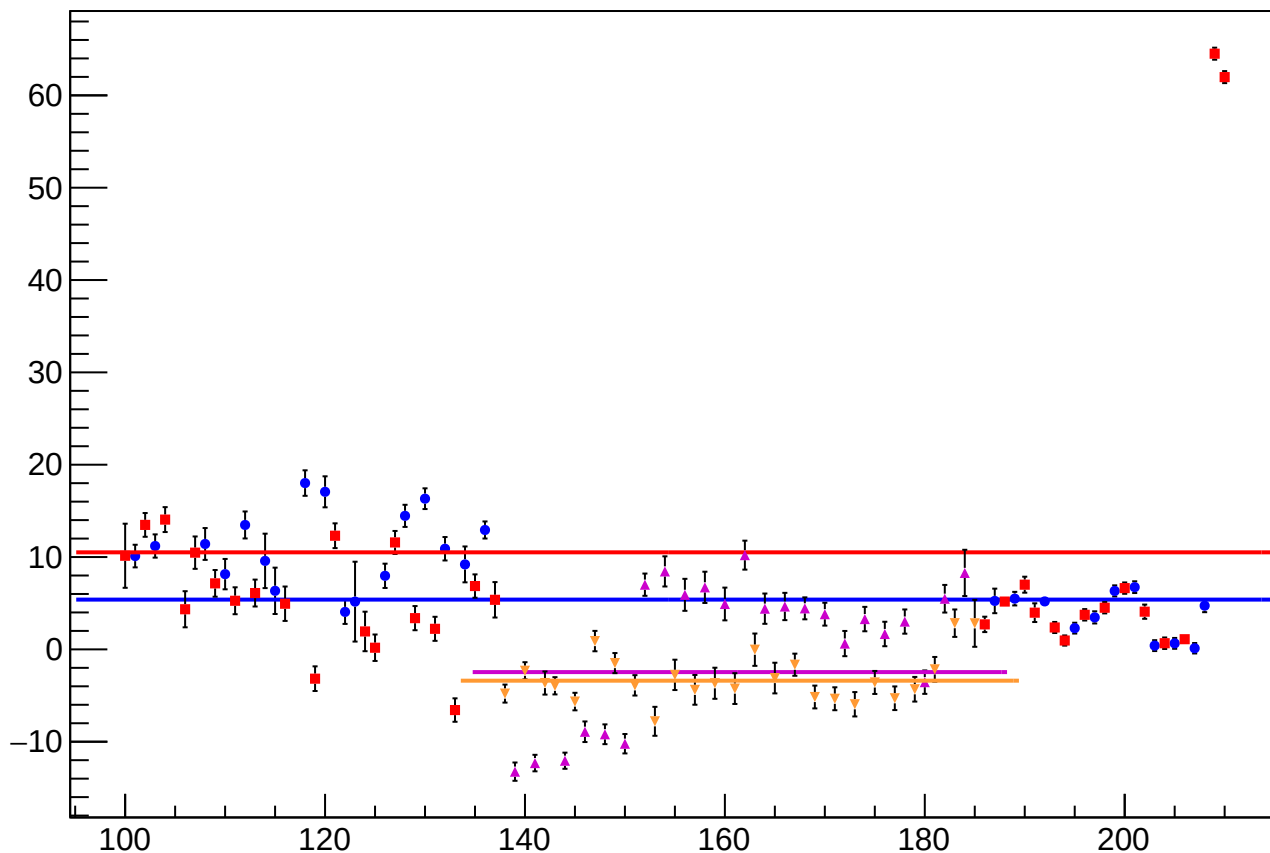
Right: 3438.565 ± 0.456 $\chi^2/\text{NDF}: 5080295.0/60$

In: 3960.247 ± 0.516 $\chi^2/\text{NDF}: 4587952.6/50$

Out: 3973.002 ± 0.492 $\chi^2/\text{NDF}: 4639171.7/57$

All: 3966.927 ± 0.356 $\chi^2/\text{NDF}: 9227444.1/10$

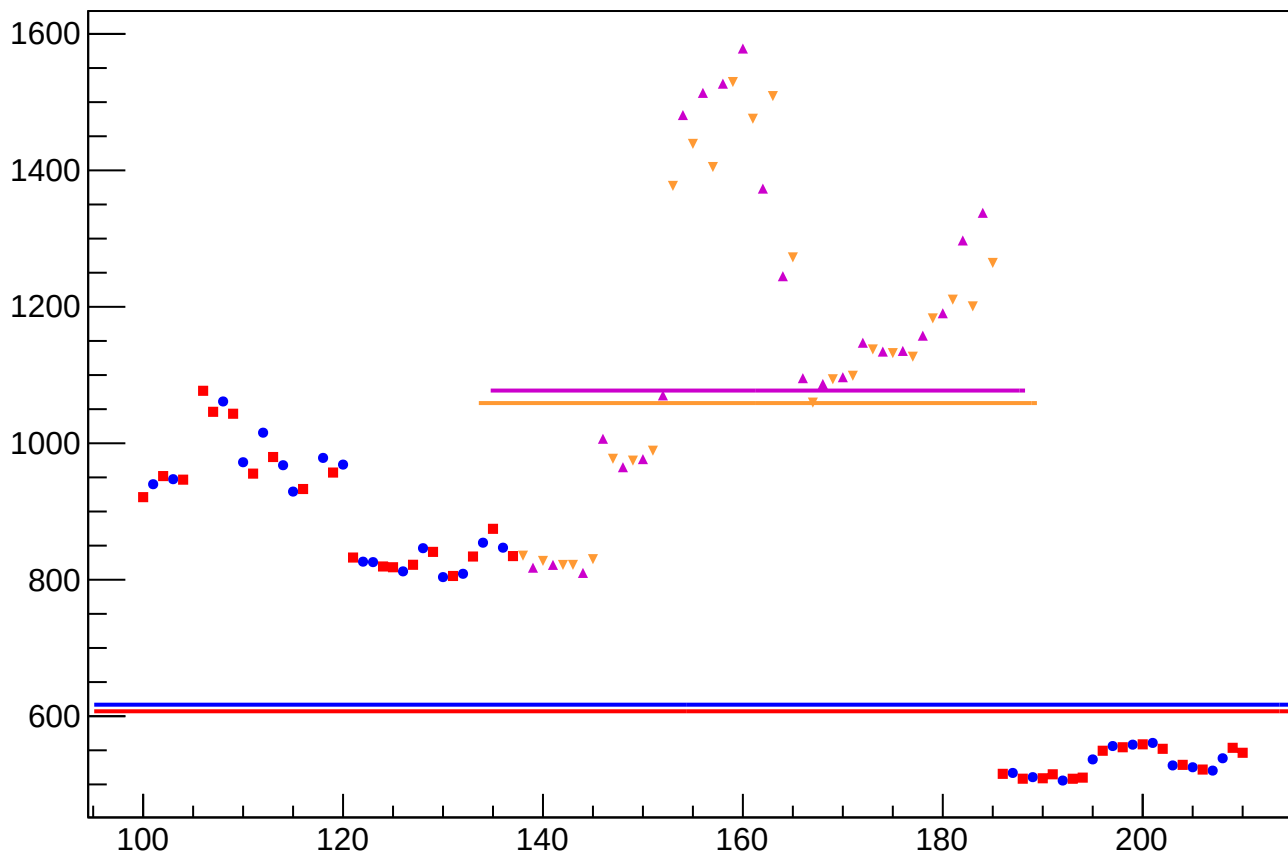
diff_bpm2i01X_mean vs Slug, Sign Corrected



Right In: 5.391 ± 0.167 $\chi^2/\text{NDF}: 729.5/27$
 Left Out: -3.390 ± 0.252 $\chi^2/\text{NDF}: 77.7/24$
 Right Out: 10.510 ± 0.154 $\chi^2/\text{NDF}: 15220.9/32$
 Left In: -2.461 ± 0.264 $\chi^2/\text{NDF}: 928.0/22$

Left: -2.947 ± 0.183 $\chi^2/\text{NDF}: 1012.2/47$
 Right: 8.164 ± 0.113 $\chi^2/\text{NDF}: 16457.8/60$
 In: 3.145 ± 0.141 $\chi^2/\text{NDF}: 2287.3/50$
 Out: 6.741 ± 0.131 $\chi^2/\text{NDF}: 17511.7/57$
 All: 5.075 ± 0.096 $\chi^2/\text{NDF}: 20146.3/108$

diff_bpm2i01X_rms vs Slug, Sign Corrected



Right In: 616.867 $\pm$ 0.118 χ^2 /NDF: 1772916.6/27

Left Out: 1058.941 $\pm$ 0.178 χ^2 /NDF:1403222.2/24

Right Out: 607.188 $\pm$ 0.109 χ^2 /NDF: 2041871.1/32

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

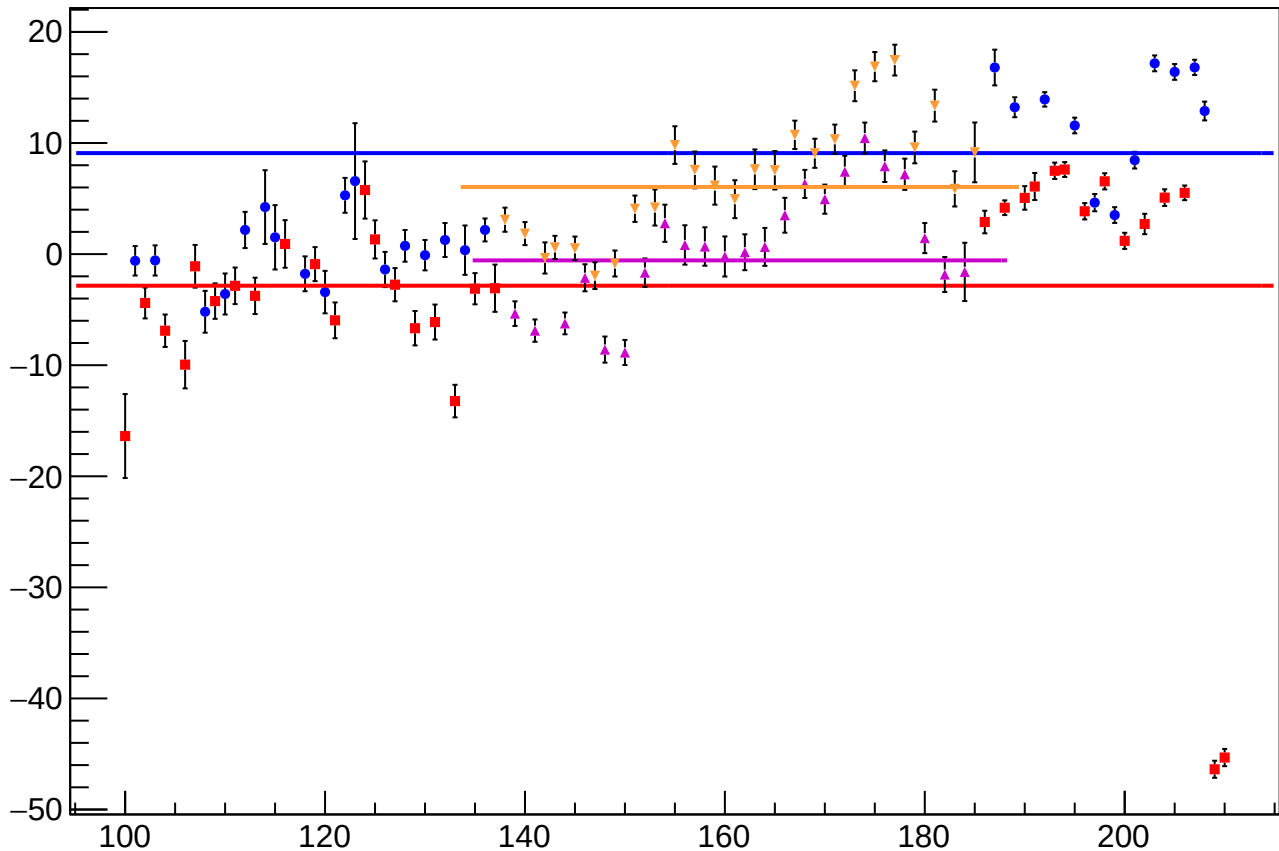
Right: 611.623 $\pm$ 0.080 χ^2 /NDF: 3818414.4/60

In: 748.528 $\pm$ 0.100 χ^2 /NDF:7384847.6/50

Out: 729.660 $\pm$ 0.093 χ^2 /NDF:8120519.5/57

All: 738.401 $\pm$ 0.068 χ^2 /NDF: 15524488.6/10

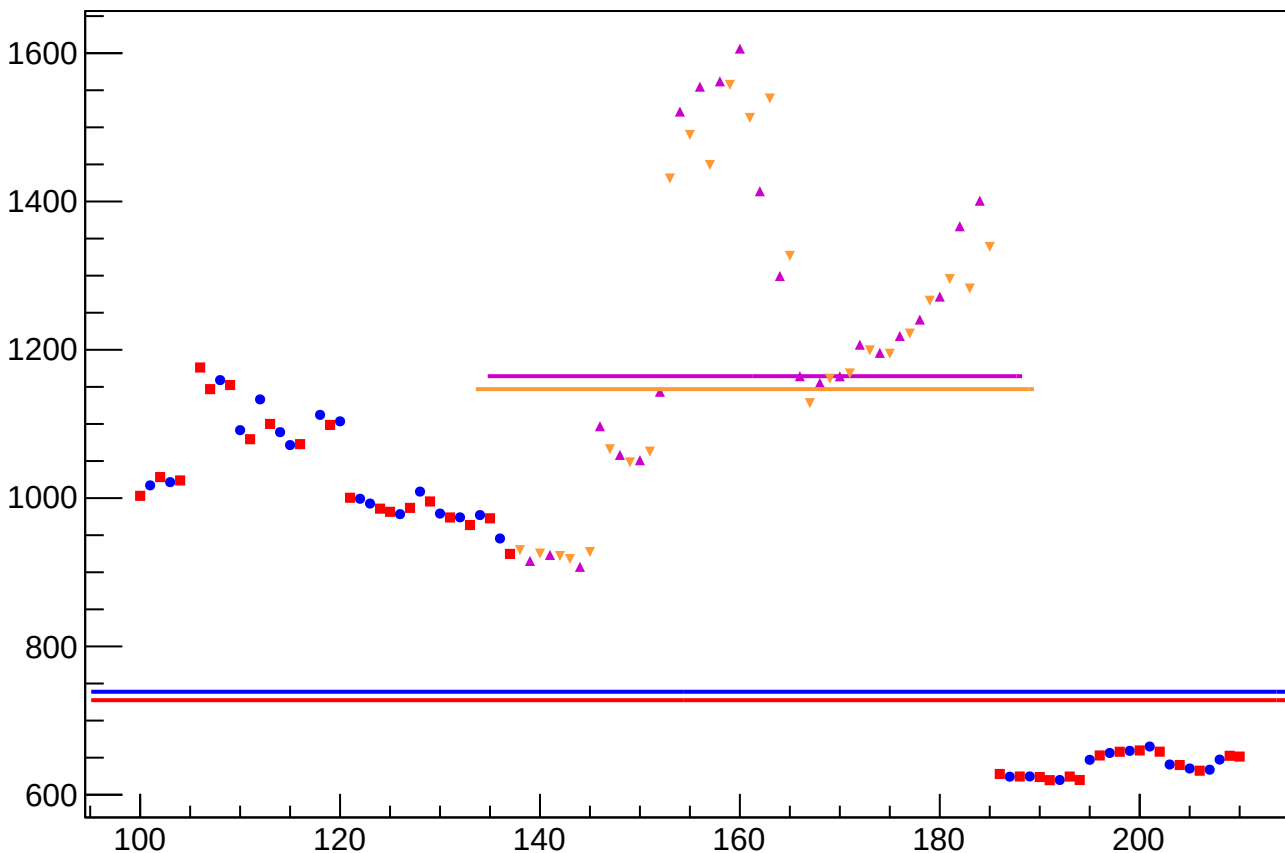
diff_bpm2i01Y_mean vs Slug, Sign Corrected



Right In: 9.092 ± 0.199 $\chi^2/\text{NDF}: 1127.3/27$
 Left Out: 6.045 ± 0.272 $\chi^2/\text{NDF}: 430.8/24$
 Right Out: -2.845 ± 0.183 $\chi^2/\text{NDF}: 7606.1/32$
 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: 2.625 ± 0.135 $\chi^2/\text{NDF}: 10678.2/60$
 In: 5.909 ± 0.163 $\chi^2/\text{NDF}: 2319.0/50$
 Out: -0.065 ± 0.152 $\chi^2/\text{NDF}: 8772.9/57$
 All: 2.709 ± 0.111 $\chi^2/\text{NDF}: 11810.1/108$

diff_bpm2i01Y_rms vs Slug, Sign Corrected



Right In: 738.883 ± 0.141 $\chi^2/\text{NDF}: 1447667.0/27$

Left Out: 1146.960 ± 0.192 $\chi^2/\text{NDF}: 1045761.4/24$

Right Out: 727.487 ± 0.130 $\chi^2/\text{NDF}: 1664378.5/32$

Left In: 1164.432 ± 0.201 $\chi^2/\text{NDF}: 944112.0/22$

Left: 1155.305 ± 0.139 $\chi^2/\text{NDF}: 1993824.0/47$

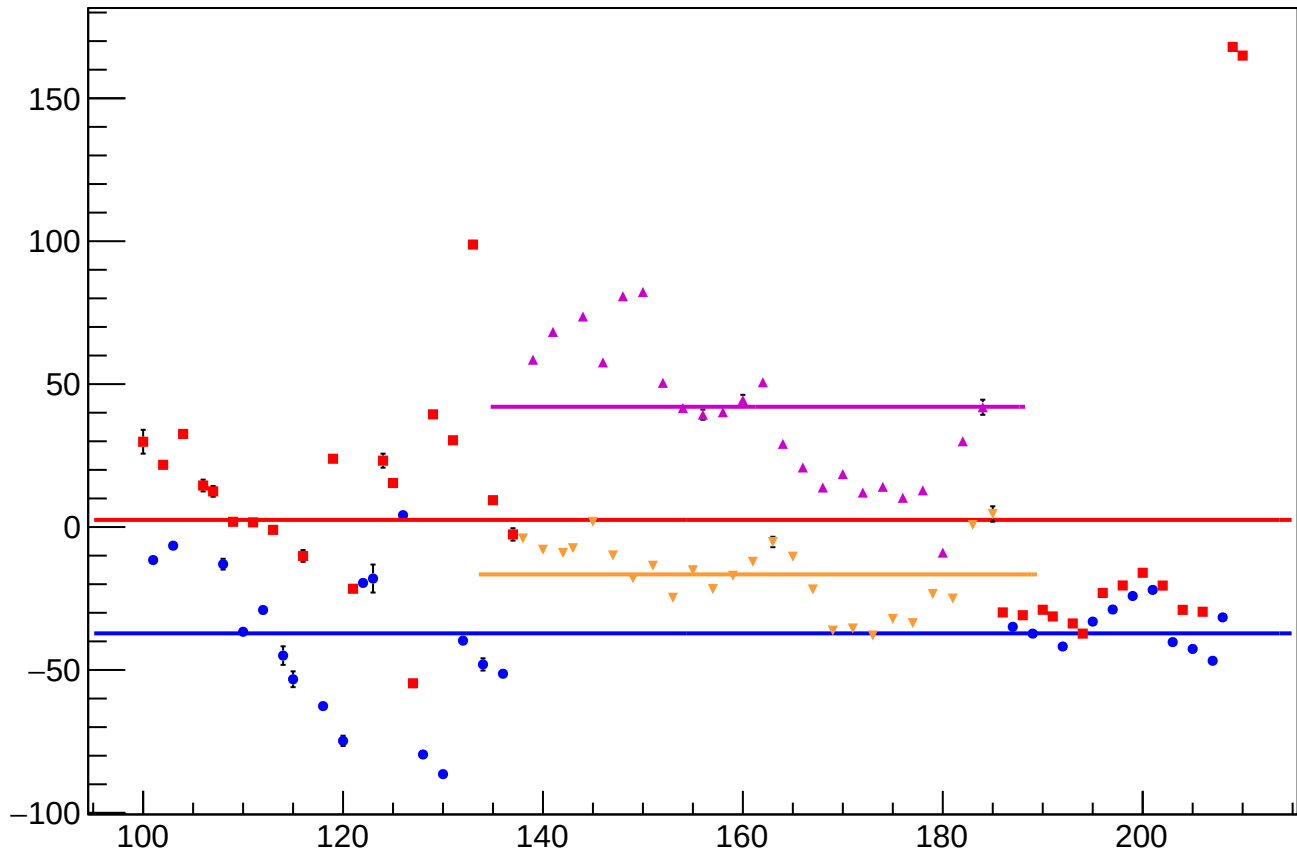
Right: 732.709 ± 0.095 $\chi^2/\text{NDF}: 3115589.9/60$

In: 879.160 ± 0.115 $\chi^2/\text{NDF}: 5399442.1/50$

Out: 858.655 ± 0.107 $\chi^2/\text{NDF}: 5987293.2/57$

All: 868.179 ± 0.079 $\chi^2/\text{NDF}: 11403658.7/10$

diff_bpm2i02X_mean vs Slug, Sign Corrected



Right In: -37.198 ± 0.196 χ^2/NDF : 6540.0/27

Left Out: -16.567 ± 0.275 χ^2/NDF : 1931.2/24

Right Out: 2.495 ± 0.180 χ^2/NDF : 116288.5/32

Left In: 42.077 ± 0.289 χ^2/NDF : 8332.3/22

Left: 11.318 ± 0.199 χ^2/NDF : 31846.5/47

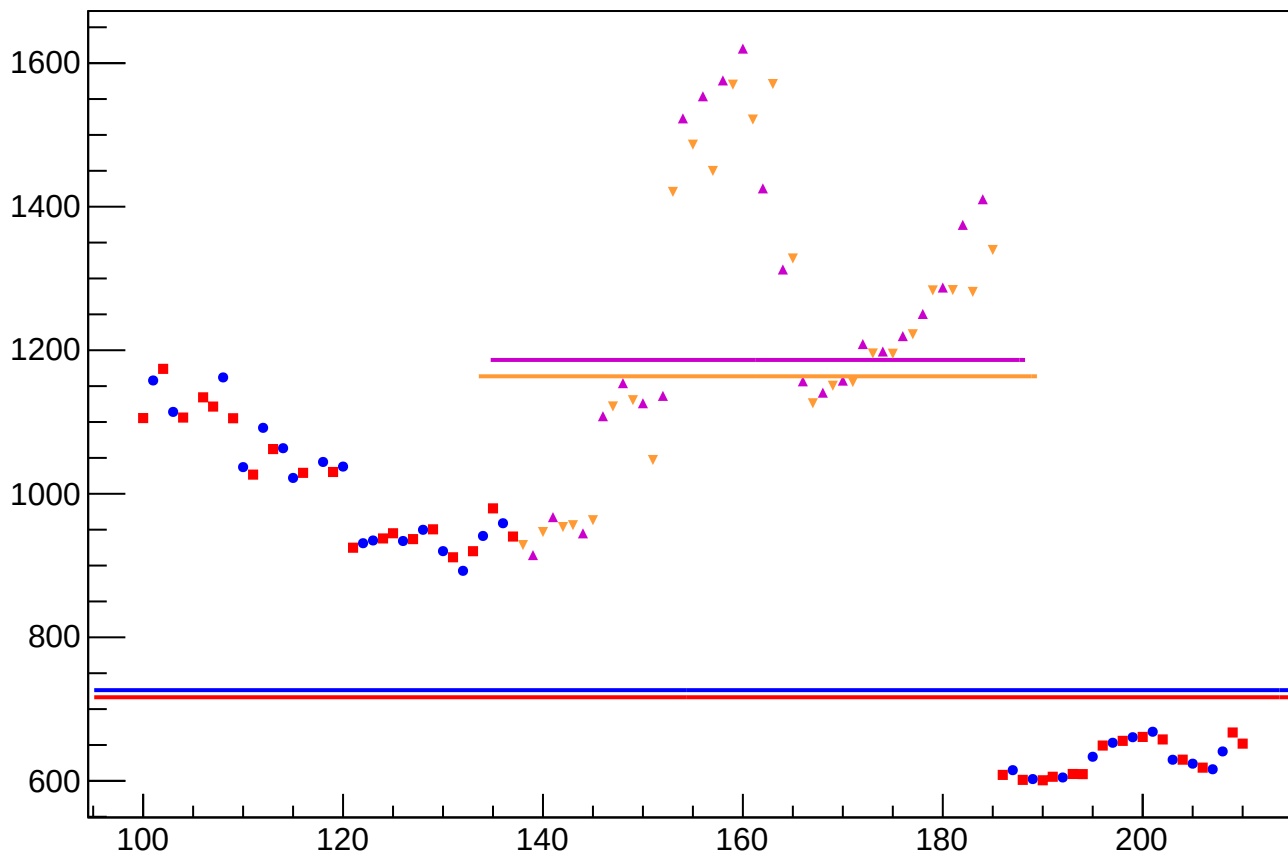
Right: -15.723 ± 0.133 χ^2/NDF : 145040.5/60

In: -12.251 ± 0.162 χ^2/NDF : 66405.1/50

Out: -3.234 ± 0.151 χ^2/NDF : 121574.2/57

All: -7.418 ± 0.110 χ^2/NDF : 189636.4/108

diff_bpm2i02X_rms vs Slug, Sign Corrected



Right In: 726.402 $\pm$ 0.139 χ^2 /NDF: 1466899.5/27

Left Out: 1163.691 $\pm$ 0.195 χ^2 /NDF: 936079.1/24

Right Out: 716.505 $\pm$ 0.128 χ^2 /NDF: 1661960.9/32

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

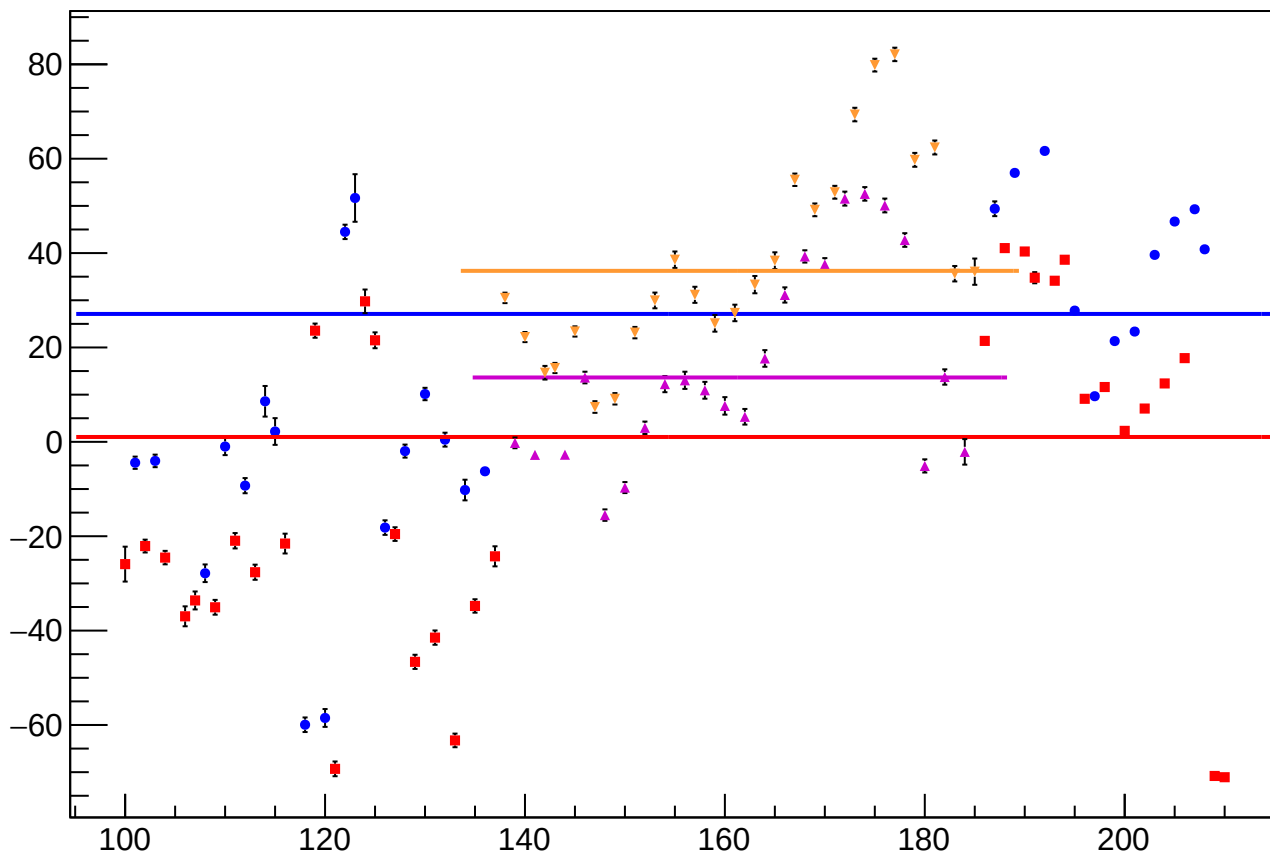
Right: 721.048 $\pm$ 0.094 χ^2 /NDF: 3131622.2/60

In: 871.181 $\pm$ 0.115 χ^2 /NDF: 5771697.7/50

Out: 850.902 $\pm$ 0.107 χ^2 /NDF: 6290209.9/57

All: 860.313 $\pm$ 0.078 χ^2 /NDF: 12078667.8/10

diff_bpm2i02Y_mean vs Slug, Sign Corrected



Left: 25.447 ± 0.202 $\chi^2/\text{NDF}: 14084.0/47$

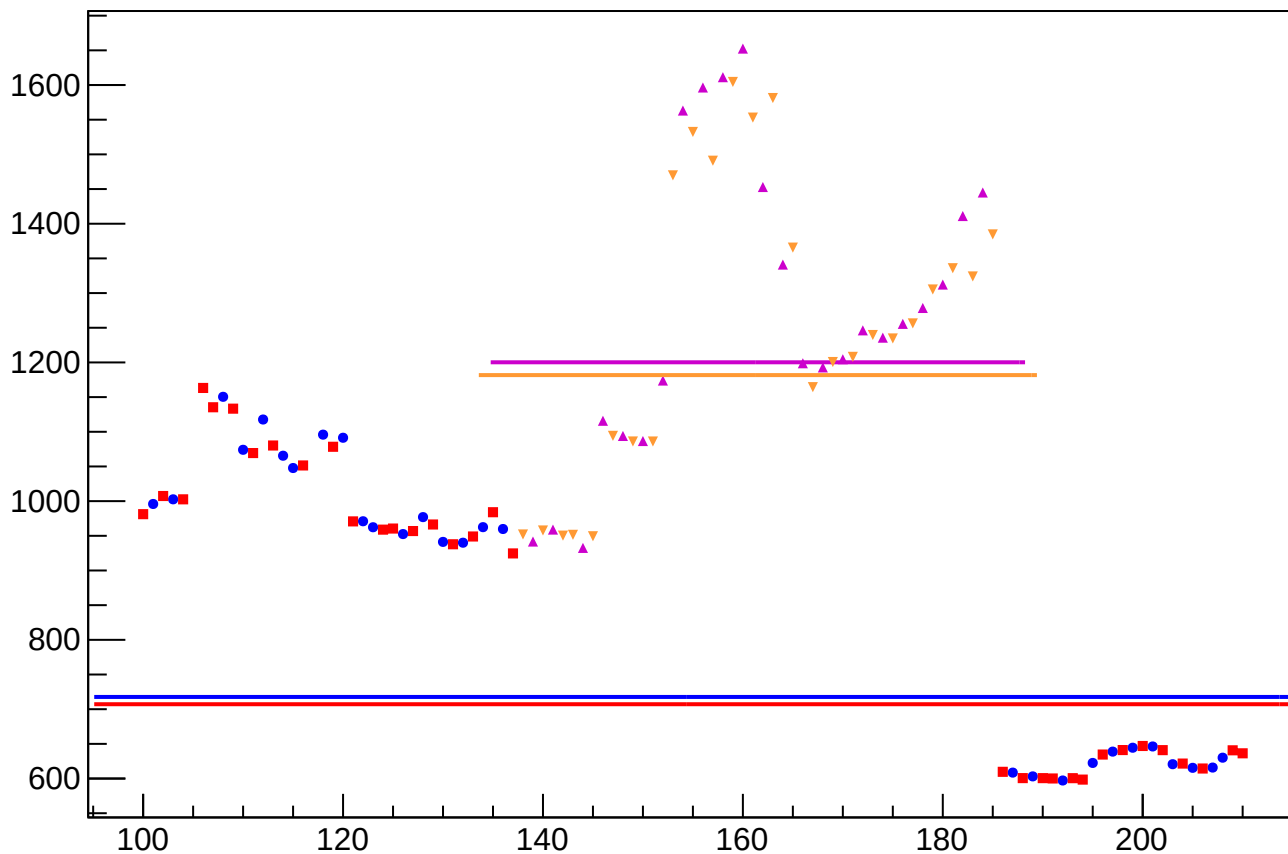
Right: 12.987 ± 0.131 $\chi^2/\text{NDF}: 70128.0/60$

In: 23.004 ± 0.162 $\chi^2/\text{NDF}: 25545.9/50$

Out: 11.193 ± 0.150 $\chi^2/\text{NDF}: 58472.7/57$

All: 16.675 ± 0.110 $\chi^2/\text{NDF}: 86881.9/108$

diff_bpm2i02Y_rms vs Slug, Sign Corrected



Right In: 717.664 $\pm$ 0.137 χ^2 /NDF: 1523708.3/27

Left Out: 1181.732 $\pm$ 0.198 χ^2 /NDF:1043520.8/24

Right Out: 707.164 $\pm$ 0.126 χ^2 /NDF: 1739938.2/32

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

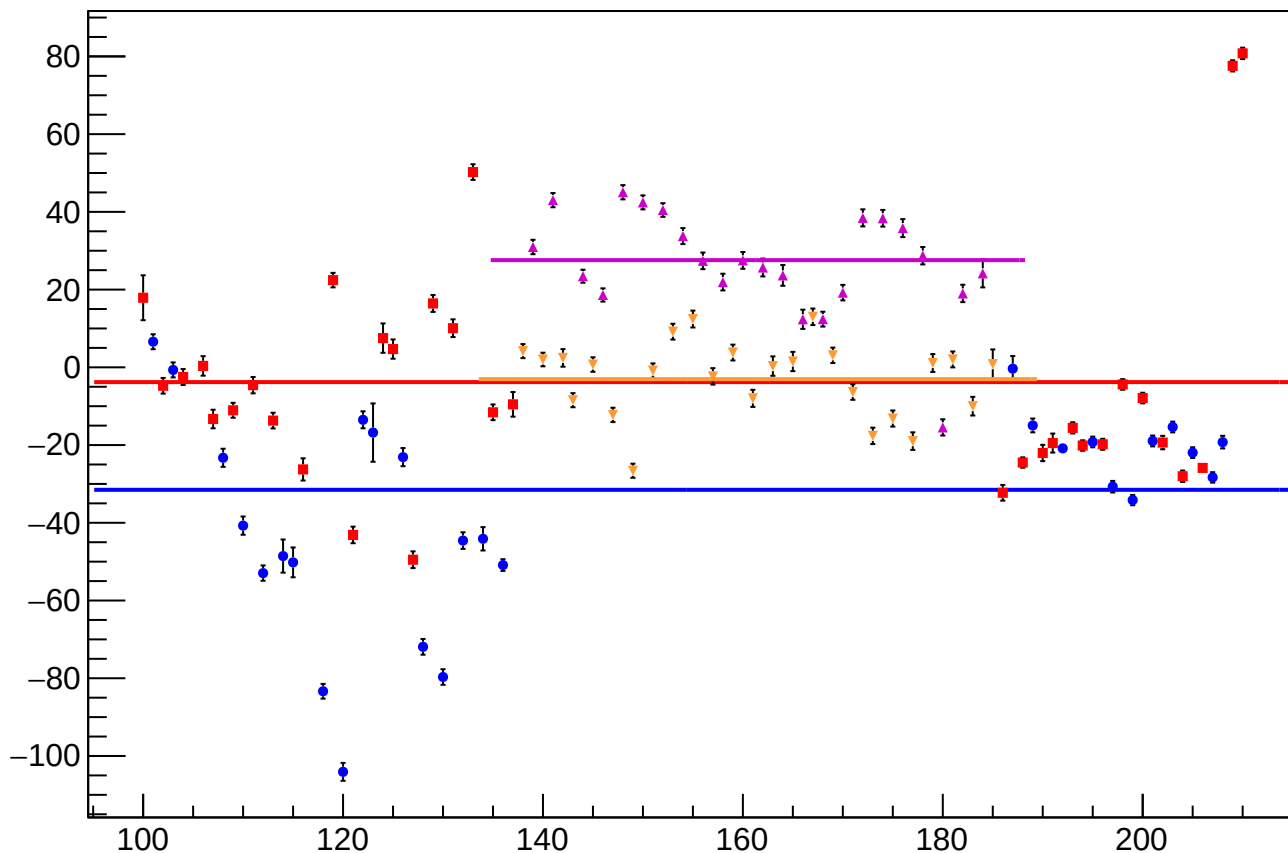
Right: 711.979 $\pm$ 0.093 χ^2 /NDF: 3266827.4/60

In: 864.597 $\pm$ 0.114 χ^2 /NDF:6239914.2/50

Out: 844.159 $\pm$ 0.106 χ^2 /NDF:6873919.3/57

All: 853.645 $\pm$ 0.078 χ^2 /NDF: 13130982.5/10

diff_bpm0i02X_mean vs Slug, Sign Corrected



Right In: -31.515 ± 0.344 $\chi^2/\text{NDF}: 4509.4/27$

Left Out: -3.037 ± 0.415 $\chi^2/\text{NDF}: 555.6/24$

Right Out: -3.802 ± 0.319 $\chi^2/\text{NDF}: 10074.2/32$

Left In: 27.583 ± 0.429 $\chi^2/\text{NDF}: 960.1/22$

Left: 11.767 ± 0.298 $\chi^2/\text{NDF}: 4146.6/47$

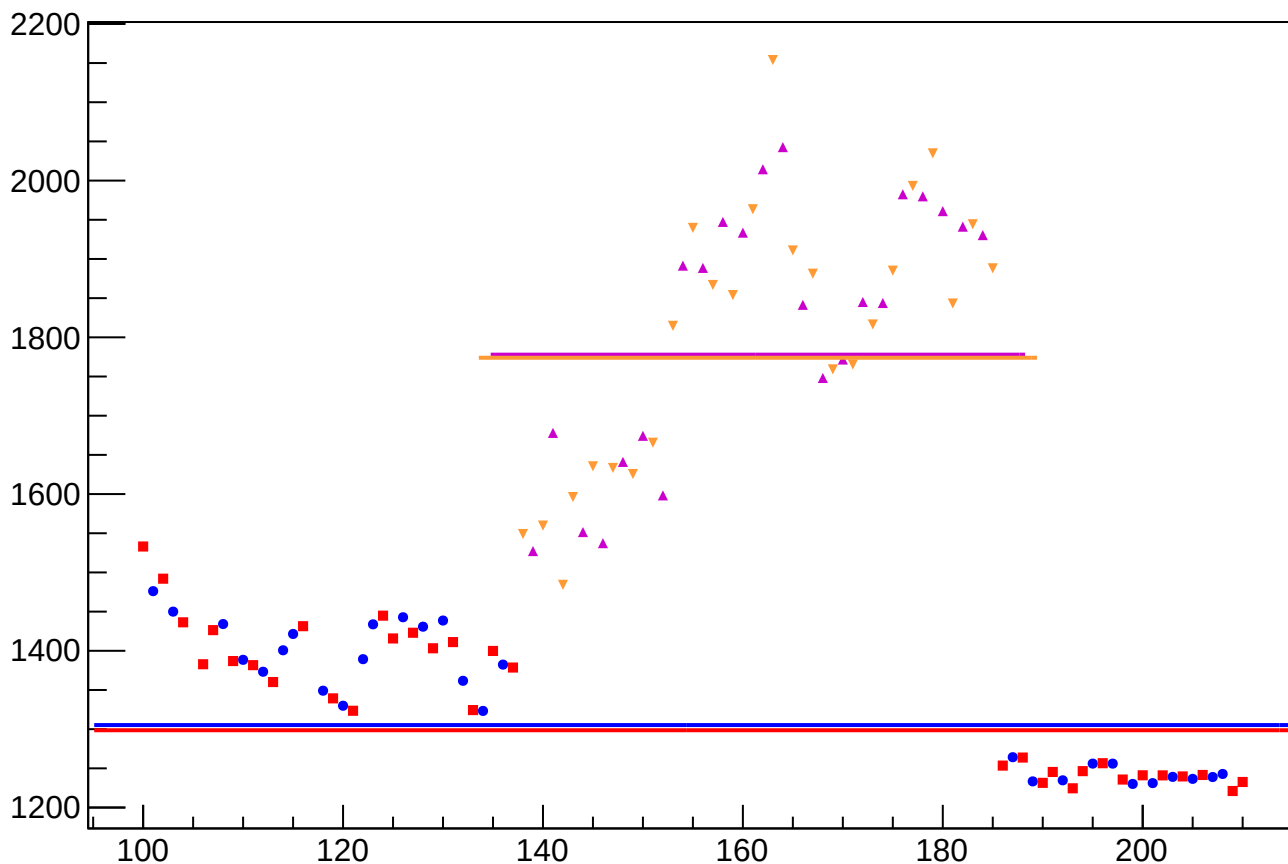
Right: -16.649 ± 0.234 $\chi^2/\text{NDF}: 18073.3/60$

In: -8.422 ± 0.268 $\chi^2/\text{NDF}: 17029.8/50$

Out: -3.518 ± 0.253 $\chi^2/\text{NDF}: 10631.9/57$

All: -5.828 ± 0.184 $\chi^2/\text{NDF}: 27838.5/108$

diff_bpm0i02X_rms vs Slug, Sign Corrected



Right In: 1305.242 $\pm$ 0.243 χ^2 /NDF: 119521.1/27

Left Out: 1773.965 $\pm$ 0.294 χ^2 /NDF: 313031.1/24

Right Out: 1298.621 $\pm$ 0.226 χ^2 /NDF: 126006.1/32

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

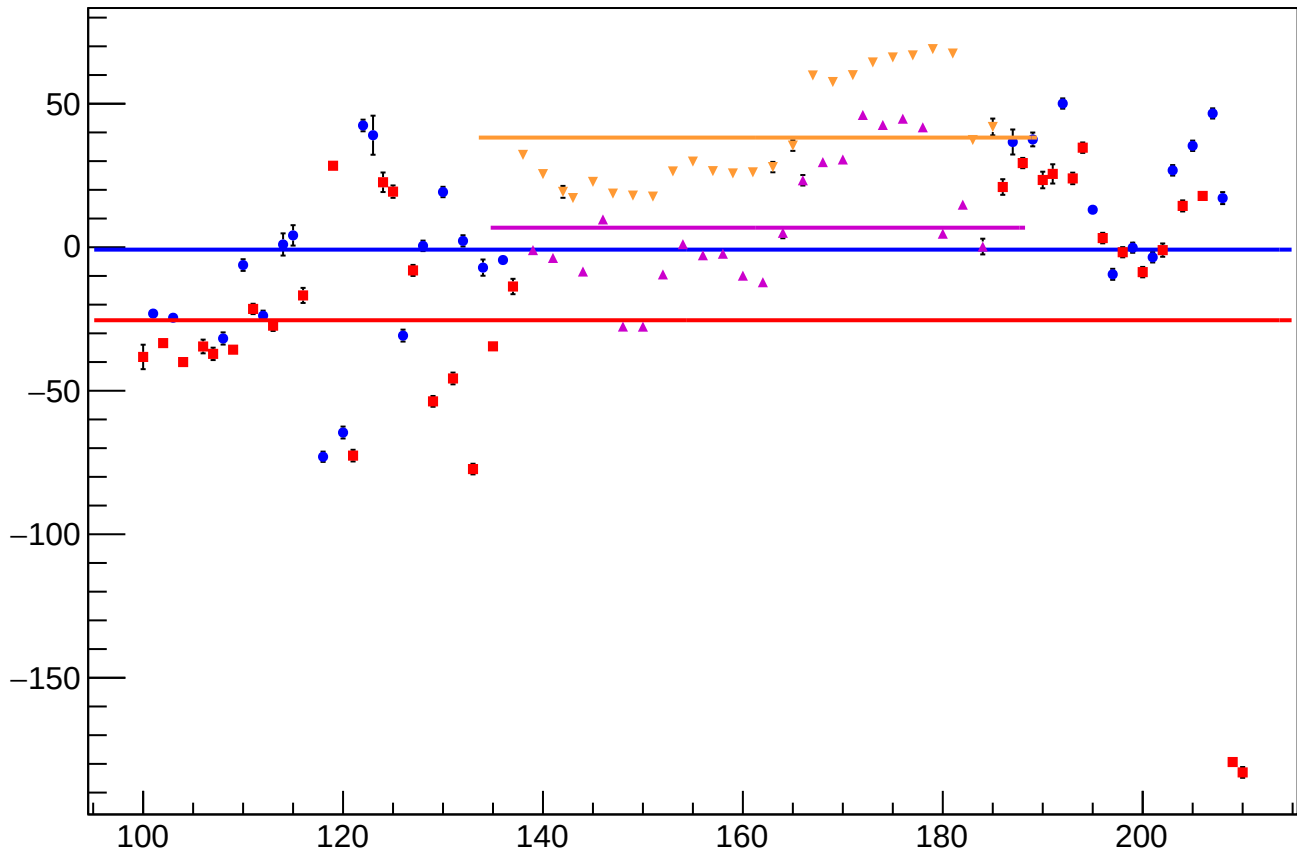
Right: 1301.690 $\pm$ 0.165 χ^2 /NDF: 245925.6/60

In: 1489.935 $\pm$ 0.190 χ^2 /NDF: 1897848.9/50

Out: 1475.411 $\pm$ 0.179 χ^2 /NDF: 2086400.3/57

All: 1482.254 $\pm$ 0.130 χ^2 /NDF: 3987351.3/100

diff_bpm0i02Y_mean vs Slug, Sign Corrected



Right In: -0.833 ± 0.368 χ^2/NDF : 6921.4/27

Left Out: 38.206 ± 0.323 χ^2/NDF : 3514.2/24

Right Out: -25.436 ± 0.346 χ^2/NDF : 23720.7/32

Left In: 6.808 ± 0.333 χ^2/NDF : 4494.5/22

Left: 22.967 ± 0.232 χ^2/NDF : 12584.4/47

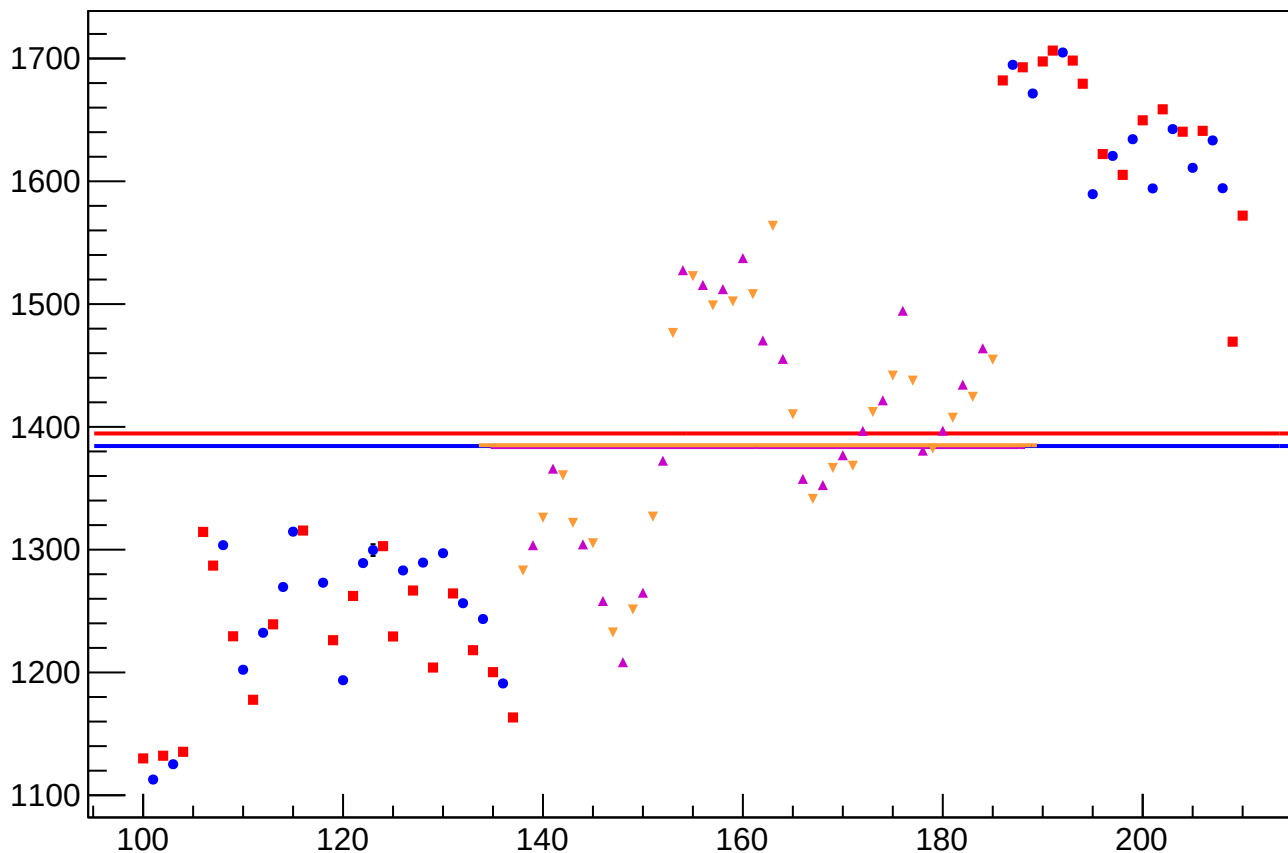
Right: -13.873 ± 0.252 χ^2/NDF : 33013.3/60

In: 3.367 ± 0.247 χ^2/NDF : 11653.1/50

Out: 8.568 ± 0.236 χ^2/NDF : 45272.9/57

All: 6.080 ± 0.171 χ^2/NDF : 57157.6/108

diff_bpm0i02Y_rms vs Slug, Sign Corrected



Right In: 1384.390+/-0.260 χ^2/NDF : 627018.2/27

Left Out: 1385.063+/-0.229 χ^2/NDF : 146001.5/24

Right Out: 1394.646+/-0.245 χ^2/NDF : 758588.6/32

Left In: 1383.558+/-0.235 χ^2/NDF : 154696.0/22

Left: 1384.333+/-0.164 χ^2/NDF : 300718.5/47

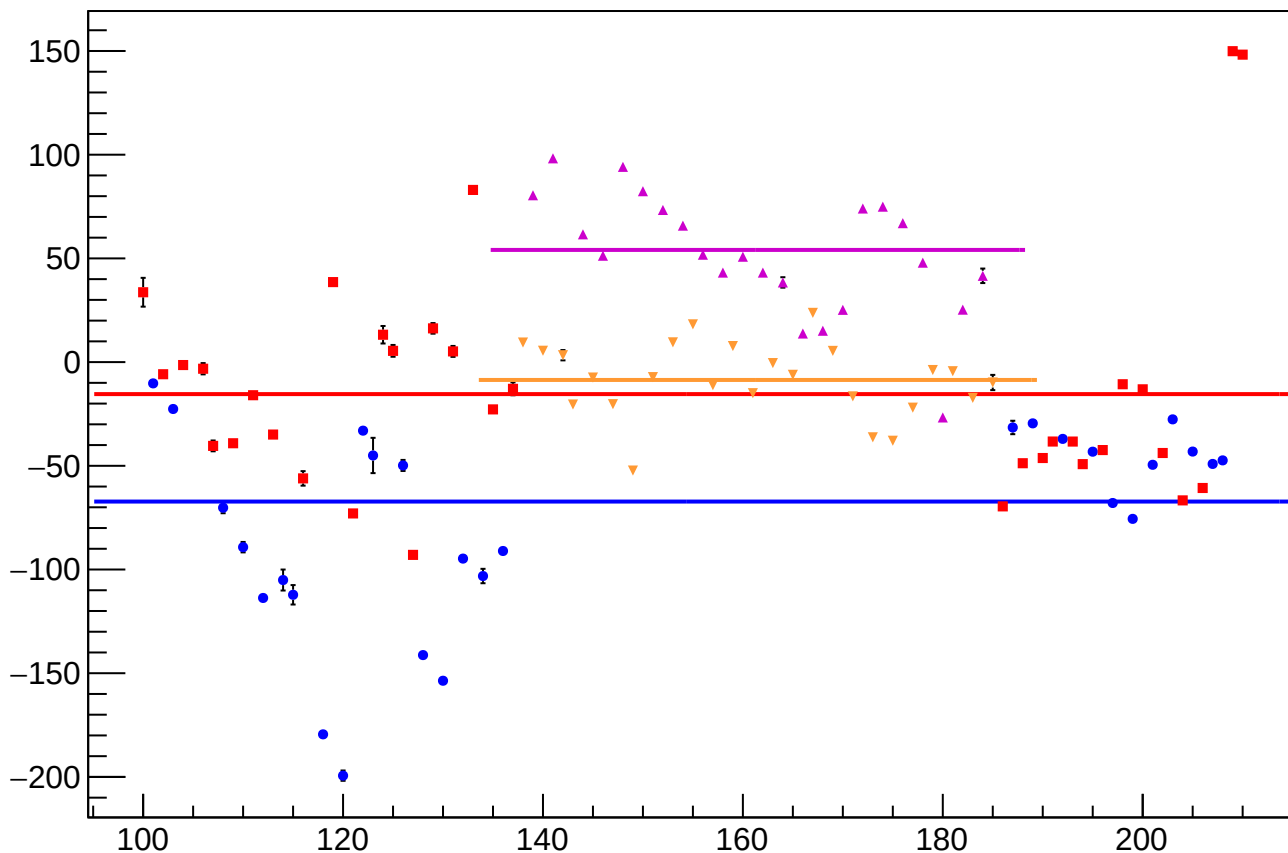
Right: 1389.826+/-0.178 χ^2/NDF : 1386430.9/60

In: 1383.932+/-0.175 χ^2/NDF : 781719.8/50

Out: 1389.526+/-0.167 χ^2/NDF : 905408.0/57

All: 1386.851+/-0.121 χ^2/NDF : 1687663.5/100

diff_bpm0i02aX_mean vs Slug, Sign Corrected



Right In: -67.236 $\pm$ 0.384 χ^2/NDF : 13049.1/27

Left Out: -8.606 $\pm$ 0.410 χ^2/NDF :1930.5/24

Right Out: -15.427 $\pm$ 0.354 χ^2/NDF : 28265.8/32

Left In: 54.089 $\pm$ 0.426 χ^2/NDF :4721.6/22

Left: 21.586 $\pm$ 0.295 χ^2/NDF : 17900.0/47

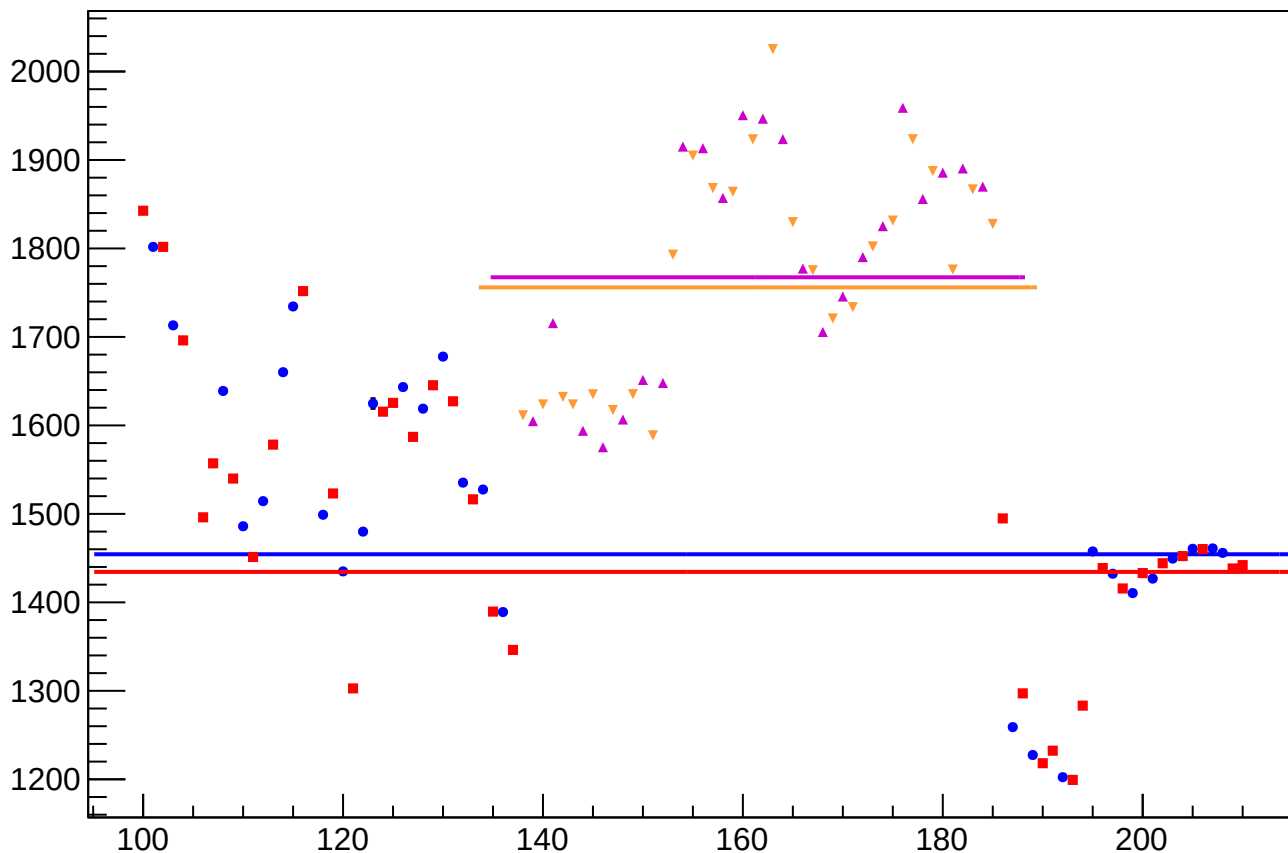
Right: -39.221 $\pm$ 0.260 χ^2/NDF : 51165.0/60

In: -12.818 $\pm$ 0.285 χ^2/NDF :62576.8/50

Out: -12.518 $\pm$ 0.268 χ^2/NDF :30354.9/57

All: -12.659 $\pm$ 0.195 χ^2/NDF : 92932.4/108

diff_bpm0i02aX_rms vs Slug, Sign Corrected



Right In: 1454.357 $\pm$ 0.271 χ^2/NDF : 261572.0/27

Left Out: 1756.034 $\pm$ 0.290 χ^2/NDF : 175762.3/24

Right Out: 1434.414 $\pm$ 0.250 χ^2/NDF : 308793.1/32

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

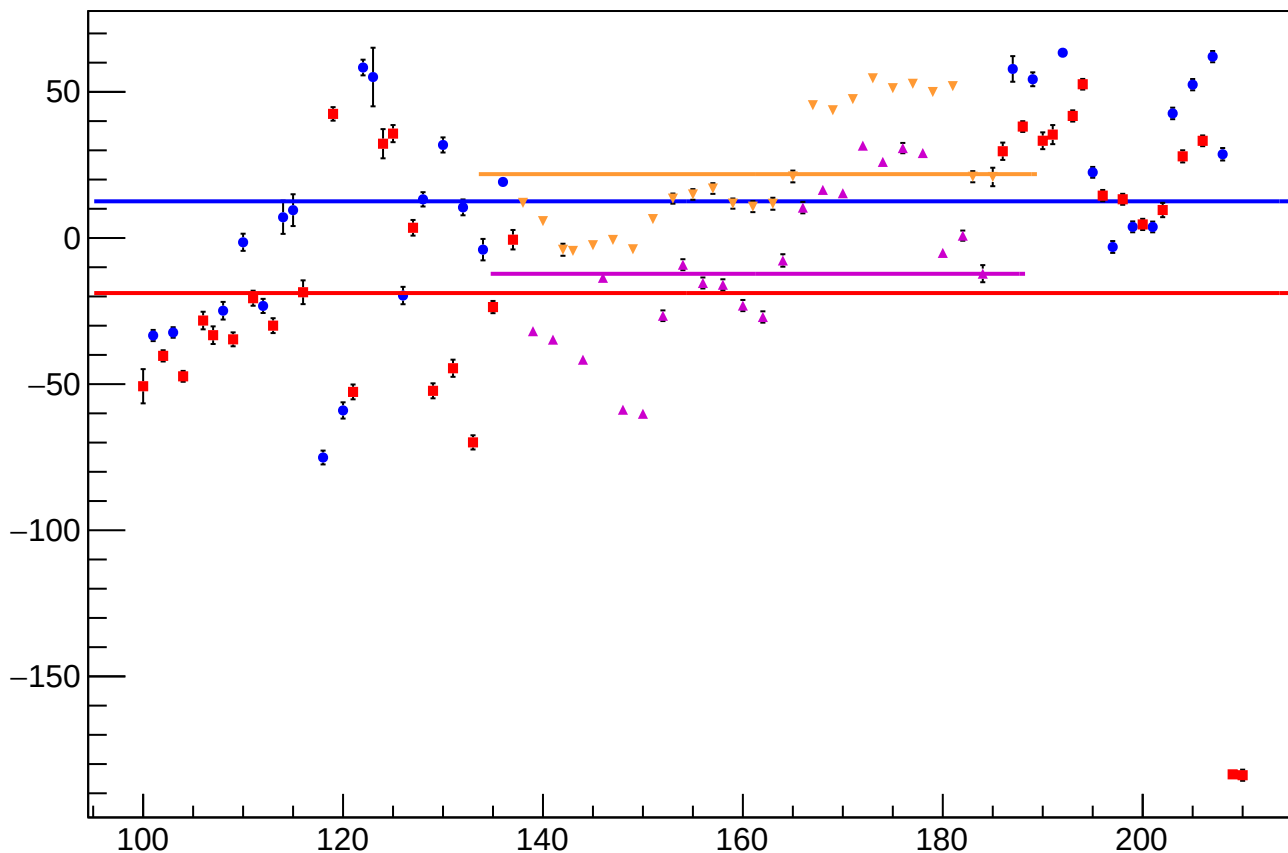
Right: 1443.573 $\pm$ 0.184 χ^2/NDF : 573284.3/60

In: 1594.771 $\pm$ 0.202 χ^2/NDF : 1046160.3/50

Out: 1571.587 $\pm$ 0.189 χ^2/NDF : 1189590.4/57

All: 1582.461 $\pm$ 0.138 χ^2/NDF : 2242775.5/10

diff_bpm0i02aY_mean vs Slug, Sign Corrected



Right In: 12.555 ± 0.437 χ^2/NDF : 6940.8/27

Left Out: 21.856 ± 0.335 χ^2/NDF : 4110.5/24

Right Out: -18.836 ± 0.405 χ^2/NDF : 26651.8/32

Left In: -12.246 ± 0.347 χ^2/NDF : 6781.6/22

Left: 5.391 ± 0.241 χ^2/NDF : 15885.7/47

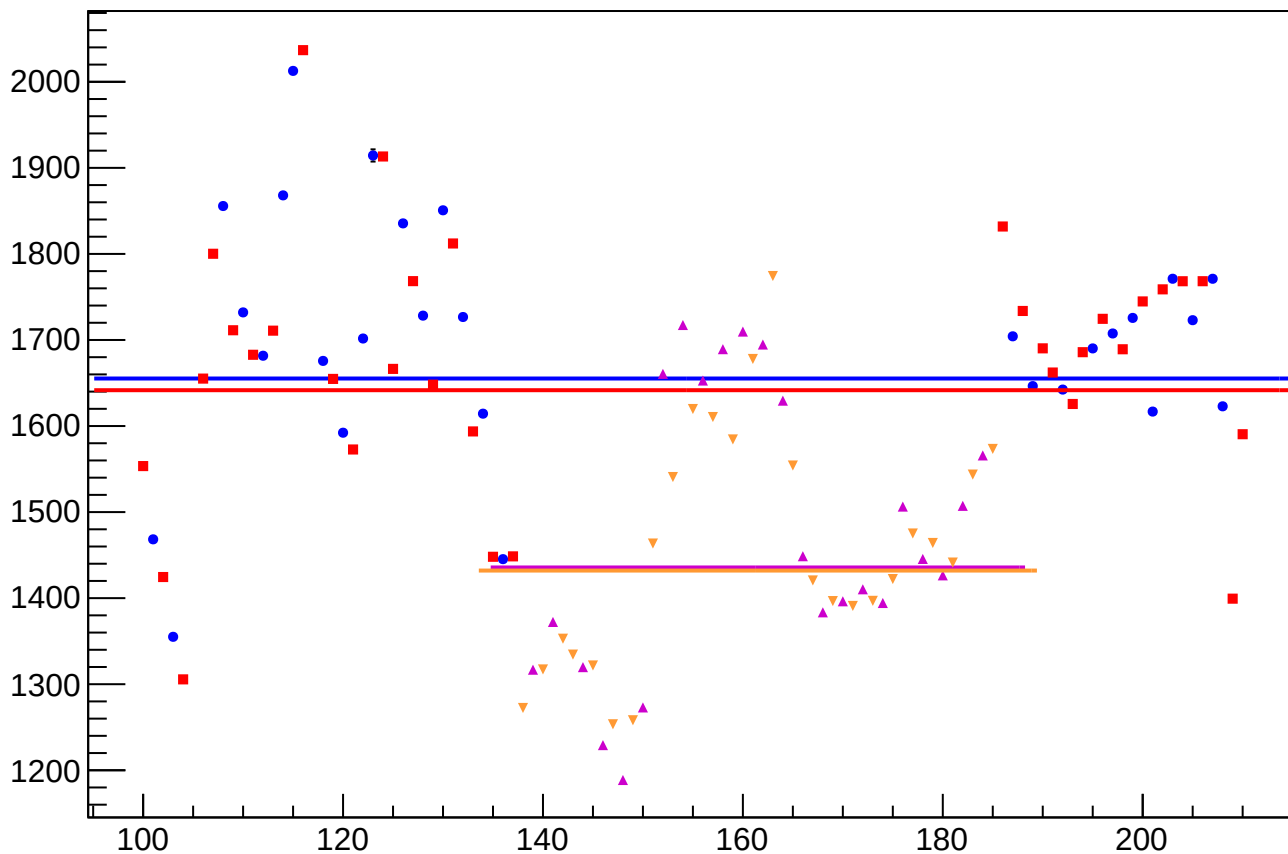
Right: -4.332 ± 0.297 χ^2/NDF : 36369.8/60

In: -2.651 ± 0.272 χ^2/NDF : 15698.1/50

Out: 5.302 ± 0.258 χ^2/NDF : 36753.3/57

All: 1.528 ± 0.187 χ^2/NDF : 52901.4/108

diff_bpm0i02aY_rms vs Slug, Sign Corrected



Right In: 1655.222 $\pm$ 0.309 χ^2 /NDF: 180379.6/27

Left Out: 1432.060 $\pm$ 0.237 χ^2 /NDF: 297360.3/24

Right Out: 1641.636 $\pm$ 0.286 χ^2 /NDF: 254779.5/32

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

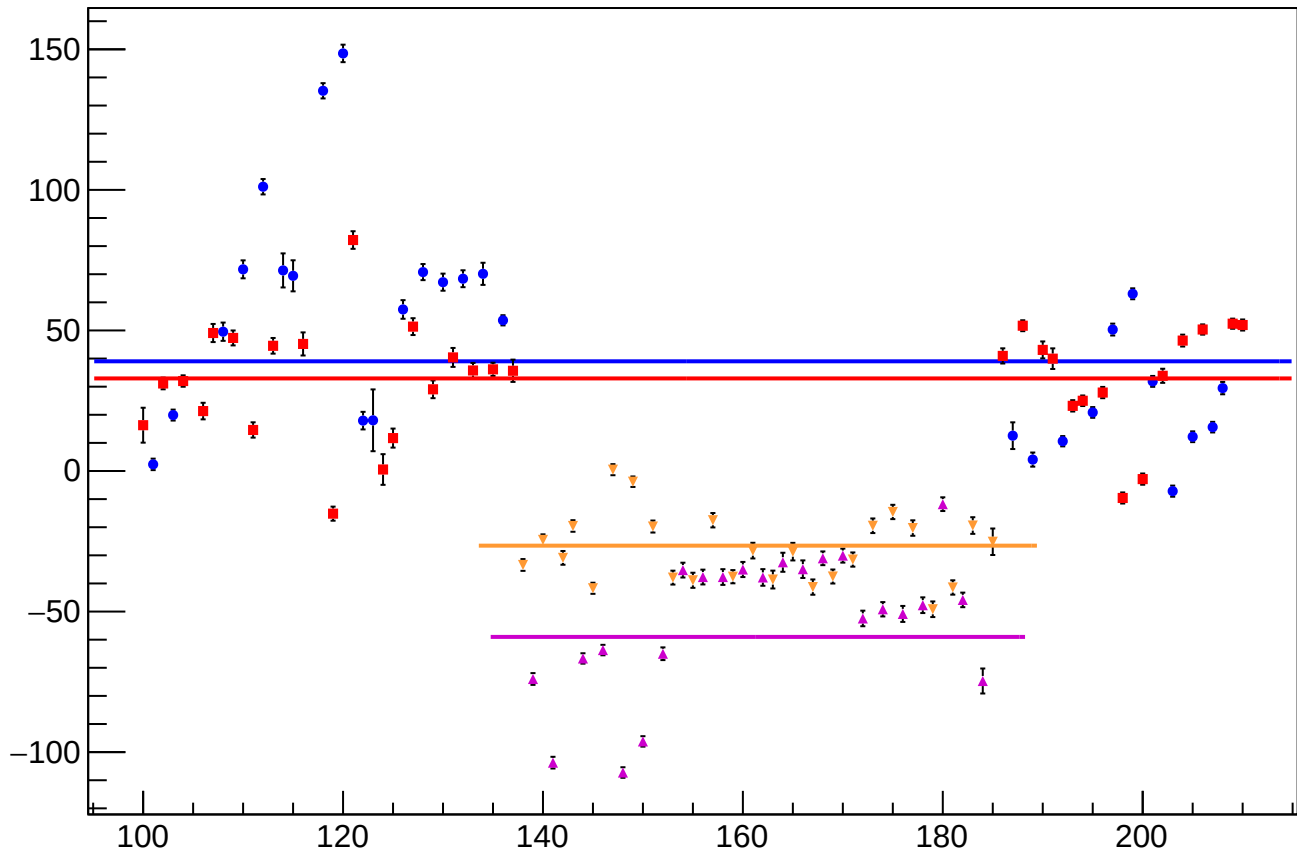
Right: 1647.913 $\pm$ 0.210 χ^2 /NDF: 436199.5/60

In: 1520.597 $\pm$ 0.192 χ^2 /NDF: 910954.1/50

Out: 1517.317 $\pm$ 0.183 χ^2 /NDF: 869965.4/57

All: 1518.874 $\pm$ 0.132 χ^2 /NDF: 1781072.6/100

diff_bpm0i05X_mean vs Slug, Sign Corrected



Right In: 39.022 ± 0.467 $\chi^2/\text{NDF}: 5776.4/27$

Left Out: -26.554 ± 0.488 $\chi^2/\text{NDF}: 717.5/24$

Right Out: 32.930 ± 0.432 $\chi^2/\text{NDF}: 2183.4/32$

Left In: -59.014 ± 0.506 $\chi^2/\text{NDF}: 2783.8/22$

Left: -42.178 ± 0.351 $\chi^2/\text{NDF}: 5632.2/47$

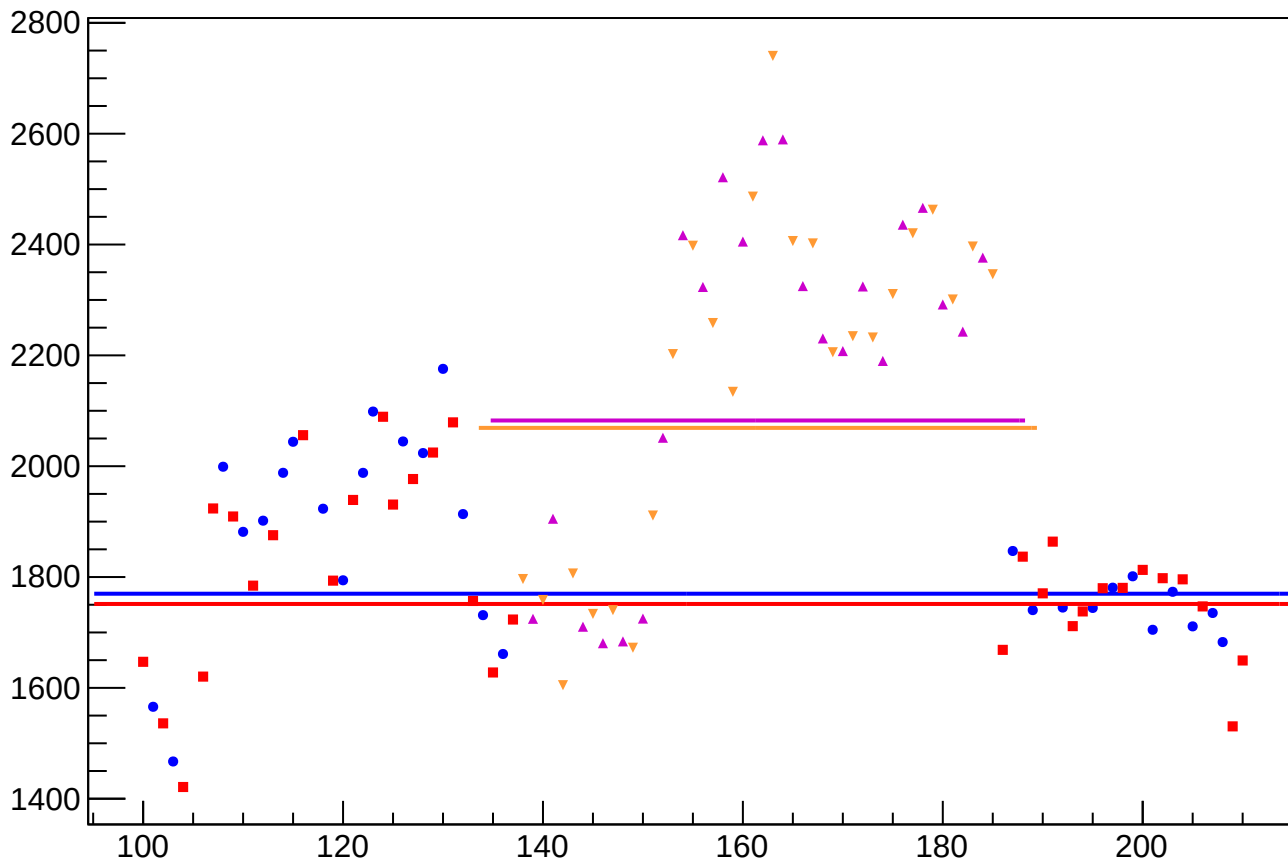
Right: 35.736 ± 0.317 $\chi^2/\text{NDF}: 8051.5/60$

In: -6.038 ± 0.343 $\chi^2/\text{NDF}: 28810.6/50$

Out: 6.813 ± 0.323 $\chi^2/\text{NDF}: 11240.0/57$

All: 0.774 ± 0.235 $\chi^2/\text{NDF}: 40793.2/108$

diff_bpm0i05X_rms vs Slug, Sign Corrected



Right In: 1769.911 ± 0.330 χ^2/NDF : 197816.9/27

Left Out: 2069.146 ± 0.345 χ^2/NDF : 799037.9/24

Right Out: 1751.418 ± 0.305 χ^2/NDF : 227581.9/32

Left In: 2082.497 ± 0.358 χ^2/NDF : 785304.0/22

Left: 2075.572 ± 0.248 χ^2/NDF : 1585062.9/47

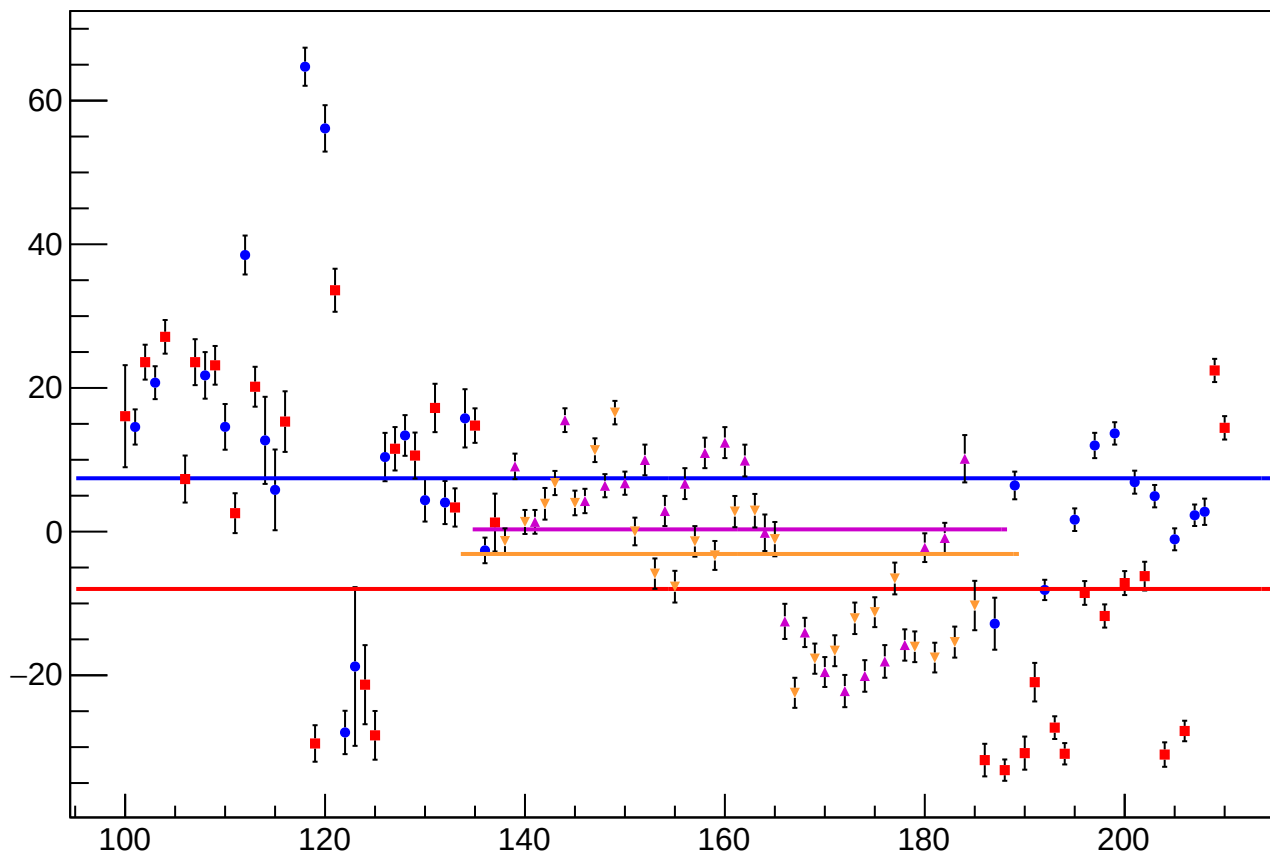
Right: 1759.937 ± 0.224 χ^2/NDF : 427090.0/60

In: 1913.585 ± 0.243 χ^2/NDF : 1394873.1/50

Out: 1890.921 ± 0.229 χ^2/NDF : 1502458.5/57

All: 1901.571 ± 0.166 χ^2/NDF : 2901950.9/100

diff_bpm0i05Y_mean vs Slug, Sign Corrected



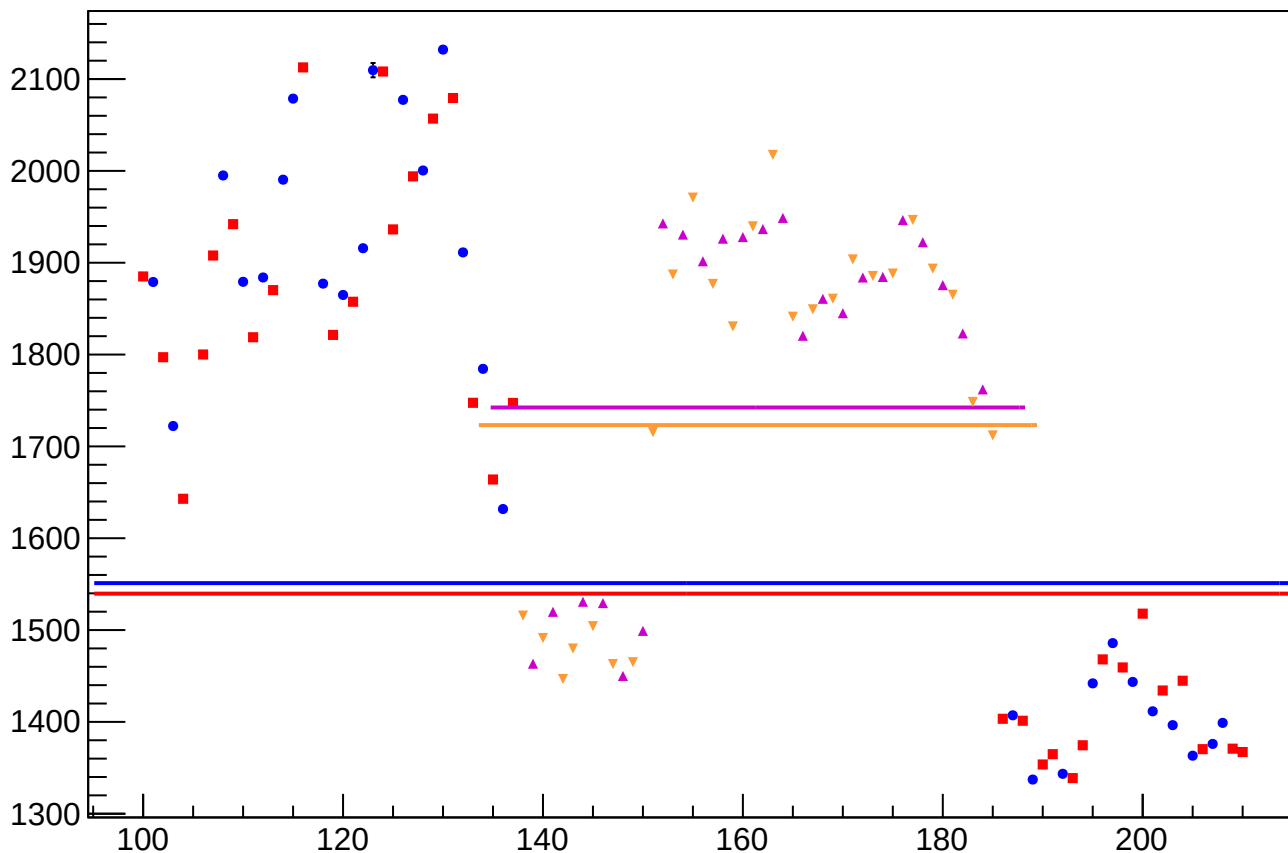
Right In: 7.427 $\pm$ 0.413 χ^2/NDF : 1320.4/27
 Left Out: -3.112 $\pm$ 0.404 χ^2/NDF :643.7/24
 Right Out: -7.982 $\pm$ 0.382 χ^2/NDF : 3189.3/32
 Left In: 0.312 $\pm$ 0.421 χ^2/NDF :736.5/22

Left: -1.470 $\pm$ 0.292 χ^2/NDF : 1414.7/47
 Right: -0.869 $\pm$ 0.280 χ^2/NDF : 5260.9/60

In: 3.942 $\pm$ 0.295 χ^2/NDF :2202.6/50
 Out: -5.685 $\pm$ 0.278 χ^2/NDF :3909.8/57

All: -1.158 $\pm$ 0.202 χ^2/NDF : 6677.7/108

diff_bpm0i05Y_rms vs Slug, Sign Corrected



Right In: 1551.113 ± 0.292 $\chi^2/\text{NDF}: 661757.5/27$

Left Out: 1723.168 ± 0.286 $\chi^2/\text{NDF}: 477441.1/24$

Right Out: 1539.655 ± 0.270 $\chi^2/\text{NDF}: 664015.2/32$

Left In: 1742.354 ± 0.298 $\chi^2/\text{NDF}: 435841.5/22$

Left: 1732.370 ± 0.206 $\chi^2/\text{NDF}: 915443.3/47$

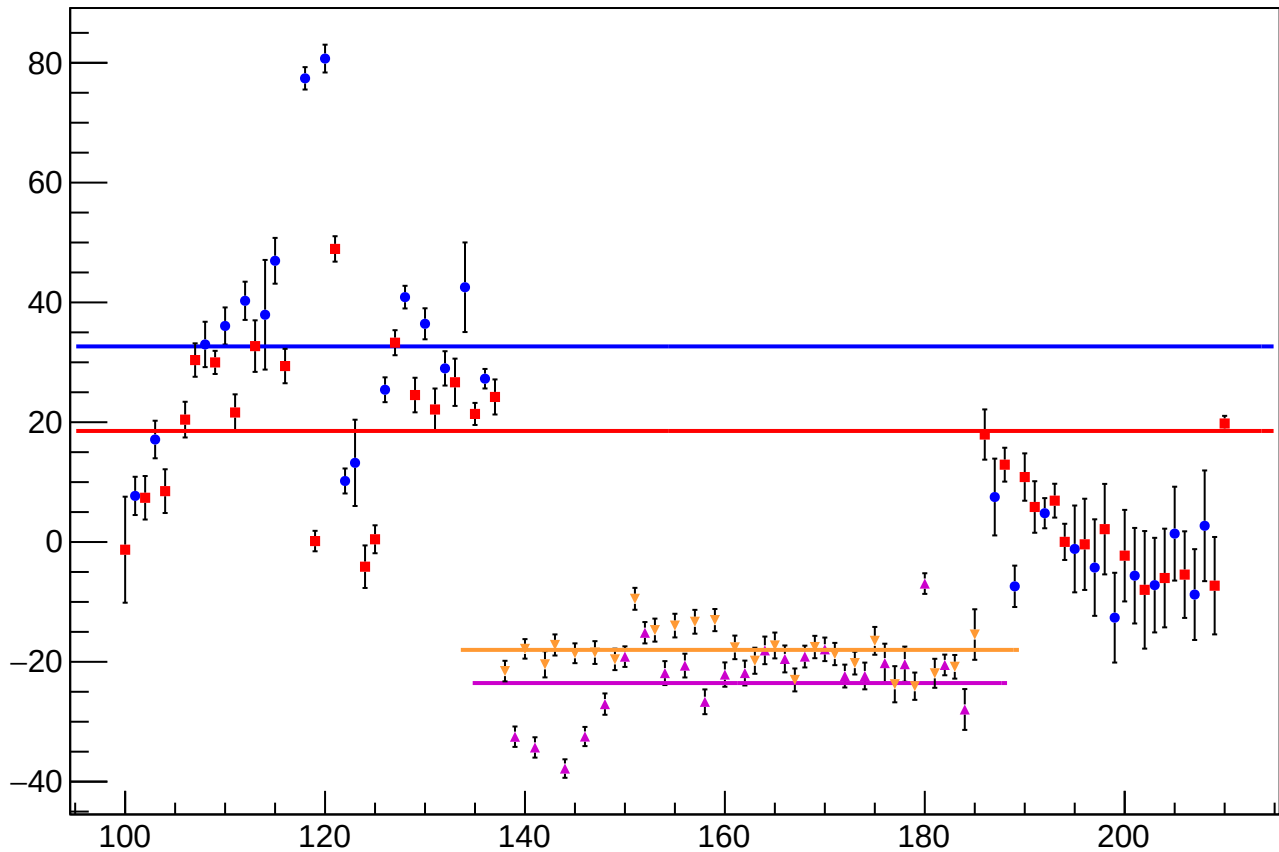
Right: 1544.945 ± 0.198 $\chi^2/\text{NDF}: 1326603.3/60$

In: 1644.772 ± 0.208 $\chi^2/\text{NDF}: 1308097.8/50$

Out: 1626.225 ± 0.196 $\chi^2/\text{NDF}: 1359194.5/57$

All: 1634.947 ± 0.143 $\chi^2/\text{NDF}: 2671489.3/10$

diff_bpm0i07X_mean vs Slug, Sign Corrected



Right In: 32.656 ± 0.593 χ^2/NDF : 1734.8/27

Left Out: -18.007 ± 0.397 χ^2/NDF : 73.8/24

Right Out: 18.541 ± 0.503 χ^2/NDF : 716.3/32

Left In: -23.544 ± 0.406 χ^2/NDF : 346.7/22

Left: -20.714 ± 0.284 χ^2/NDF : 515.7/47

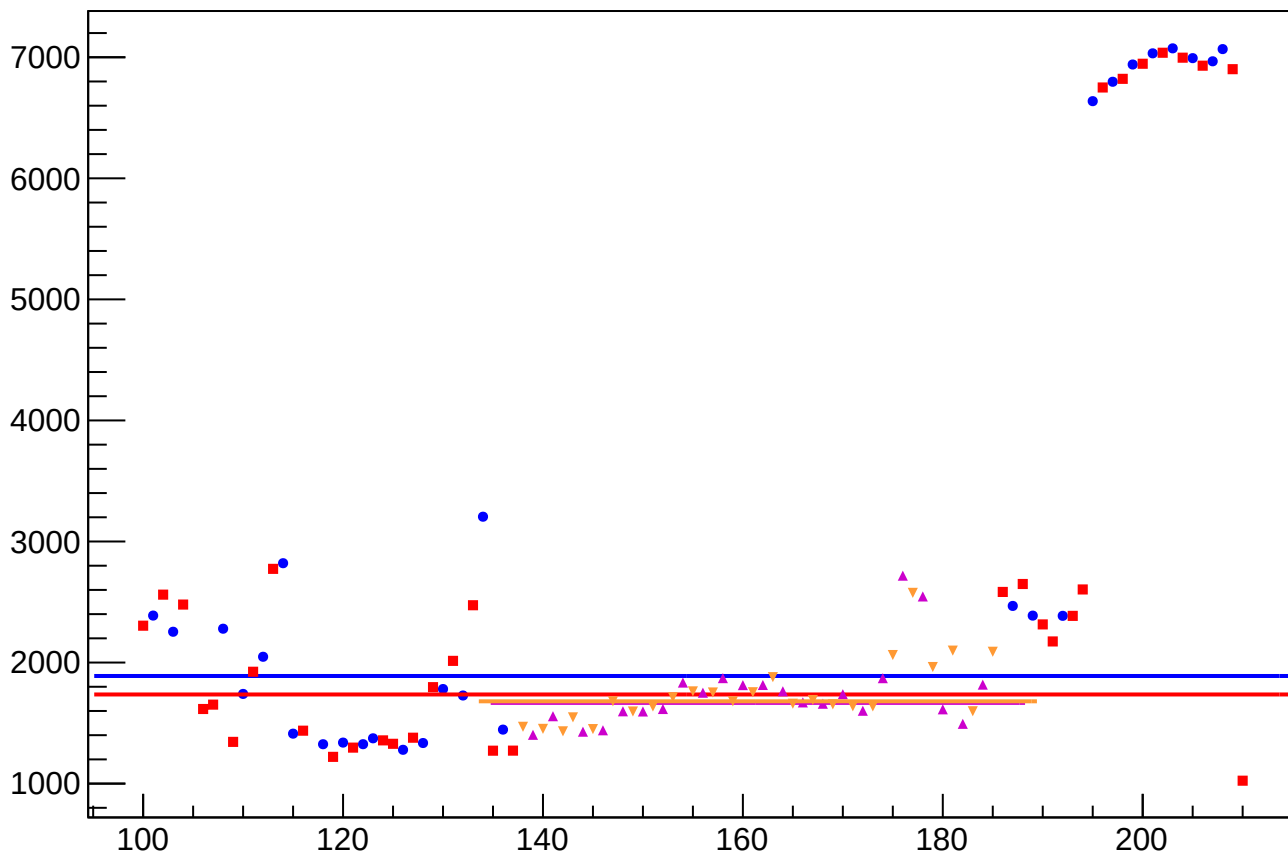
Right: 24.453 ± 0.384 χ^2/NDF : 2780.7/60

In: -5.619 ± 0.335 χ^2/NDF : 8203.7/50

Out: -3.999 ± 0.312 χ^2/NDF : 4043.5/57

All: -4.751 ± 0.228 χ^2/NDF : 12259.7/108

diff_bpm0i07X_rms vs Slug, Sign Corrected



Right In: 1889.013 $\pm$ 0.419 χ^2 /NDF: 7885972.7/27

Left Out: 1679.814 $\pm$ 0.281 χ^2 /NDF: 522795.6/24

Right Out: 1736.293 $\pm$ 0.356 χ^2 /NDF: 8284739.3/32

Left In: 1666.819 $\pm$ 0.287 χ^2 /NDF: 650990.8/22

Left: 1673.462 $\pm$ 0.201 χ^2 /NDF: 1174835.7/47

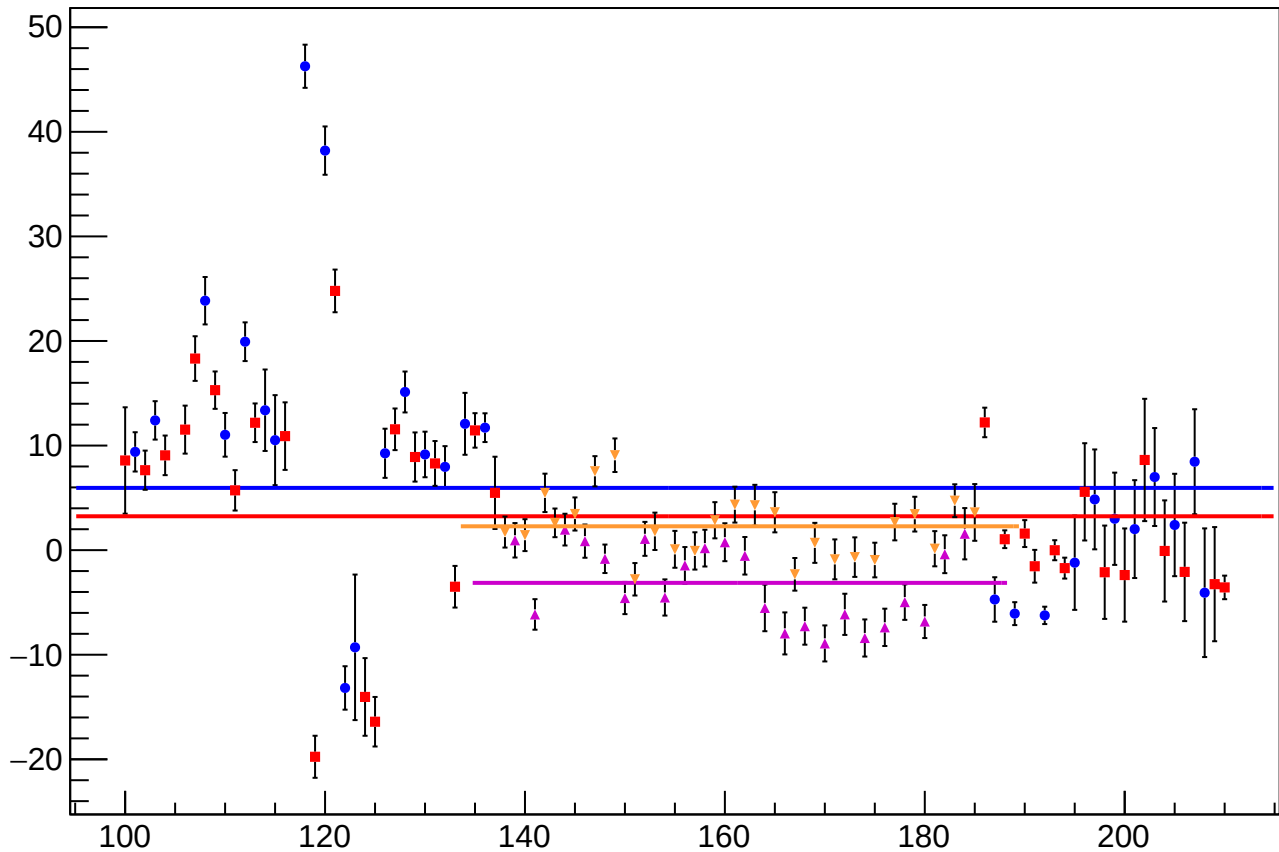
Right: 1800.257 $\pm$ 0.271 χ^2 /NDF: 16247869.9/60

In: 1737.691 $\pm$ 0.237 χ^2 /NDF: 8728354.0/50

Out: 1701.461 $\pm$ 0.220 χ^2 /NDF: 8823073.1/57

All: 1718.275 $\pm$ 0.161 χ^2 /NDF: 17563980.6/1

diff_bpm0i07Y_mean vs Slug, Sign Corrected



Right In: 5.952 $\pm$ 0.393 χ^2/NDF : 1229.3/27

Left Out: 2.280 $\pm$ 0.338 χ^2/NDF : 75.6/24

Right Out: 3.238 $\pm$ 0.314 χ^2/NDF : 691.6/32

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

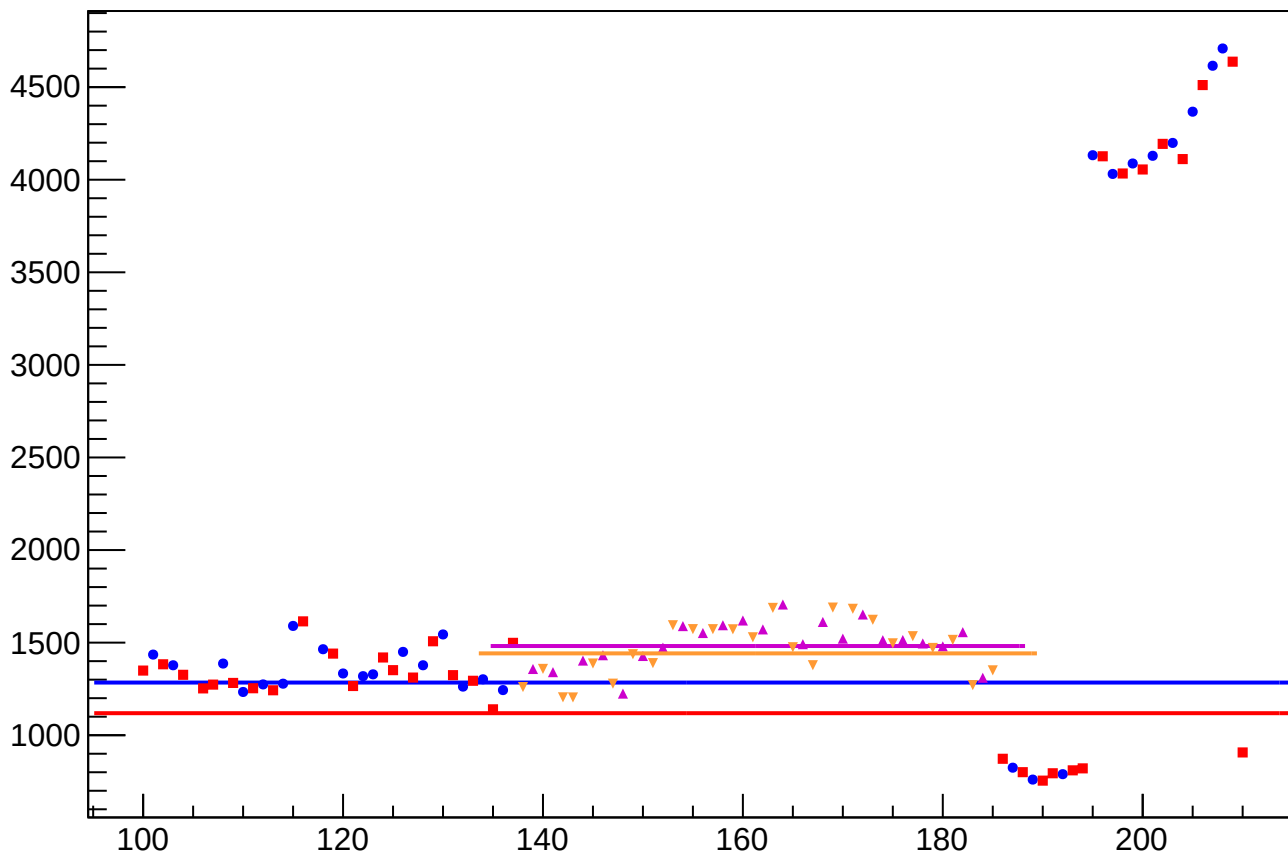
Right: 4.296 $\pm$ 0.245 χ^2/NDF : 1950.0/60

In: 0.990 $\pm$ 0.264 χ^2/NDF : 1625.0/50

Out: 2.795 $\pm$ 0.230 χ^2/NDF : 771.5/57

All: 2.017 $\pm$ 0.174 χ^2/NDF : 2423.0/108

diff_bpm0i07Y_rms vs Slug, Sign Corrected



Right In: 1284.403 $\pm$ 0.278

χ^2/NDF : 7429595.9/27

Left: 1460.716 $\pm$ 0.174

χ^2/NDF : 592125.7/47

Left Out: 1441.951 $\pm$ 0.239

χ^2/NDF : 370617.4/24

Right: 1183.459 $\pm$ 0.173

χ^2/NDF : 14831672.5/60

Right Out: 1118.974 $\pm$ 0.222

χ^2/NDF : 7185395.6/32

In: 1392.224 $\pm$ 0.187

χ^2/NDF : 7914084.8/50

Out: 1268.367 $\pm$ 0.163

χ^2/NDF : 8536069.1/57

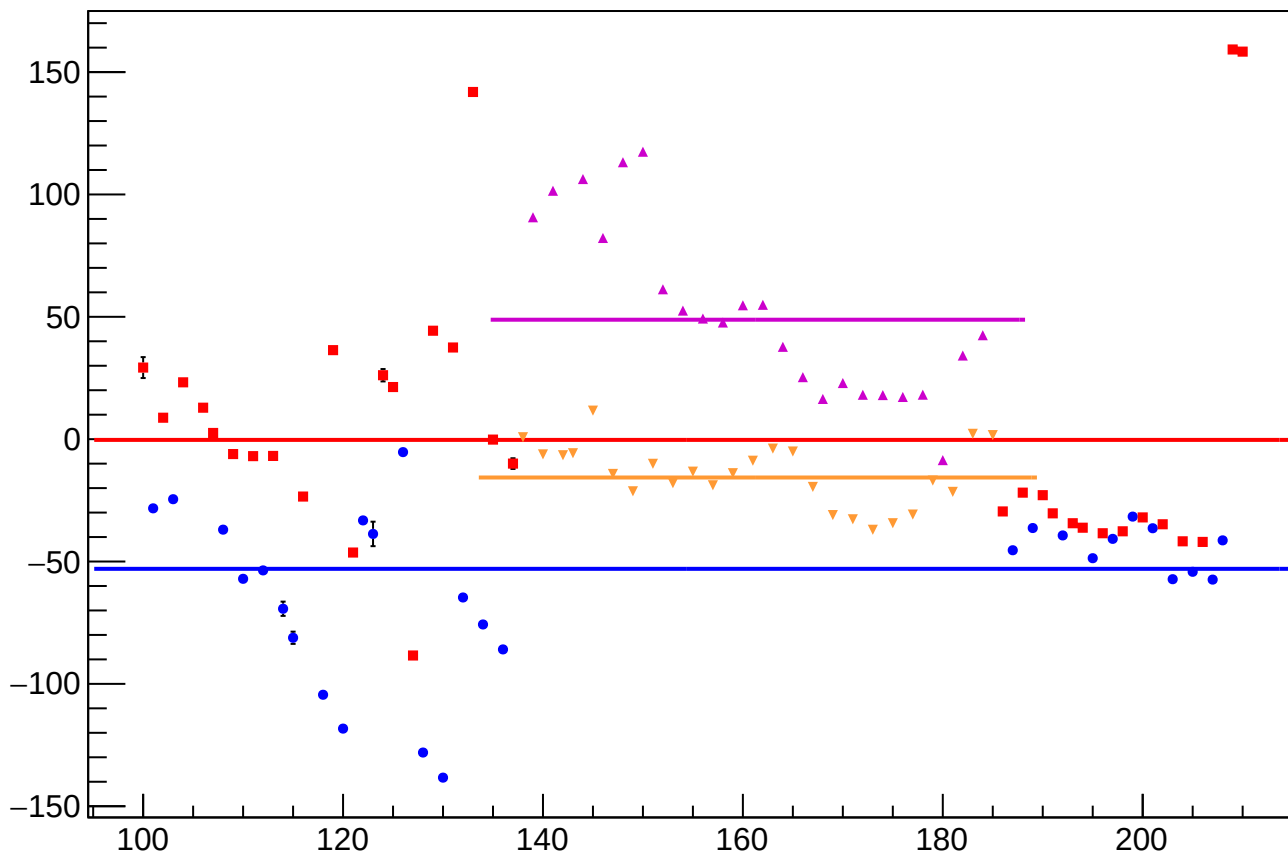
Left In: 1481.695 $\pm$ 0.253

χ^2/NDF : 208470.6/22

All: 1321.734 $\pm$ 0.123

χ^2/NDF : 16699957.9/1

diff_bpm1i02X_mean vs Slug, Sign Corrected



Right In: -52.990 ± 0.194 $\chi^2/\text{NDF}: 17268.5/27$

Left Out: -15.666 ± 0.212 $\chi^2/\text{NDF}: 3518.1/24$

Right Out: -0.302 ± 0.179 $\chi^2/\text{NDF}: 135203.5/32$

Left In: 48.812 ± 0.220 $\chi^2/\text{NDF}: 25260.8/22$

Left: 15.324 ± 0.152 $\chi^2/\text{NDF}: 73443.2/47$

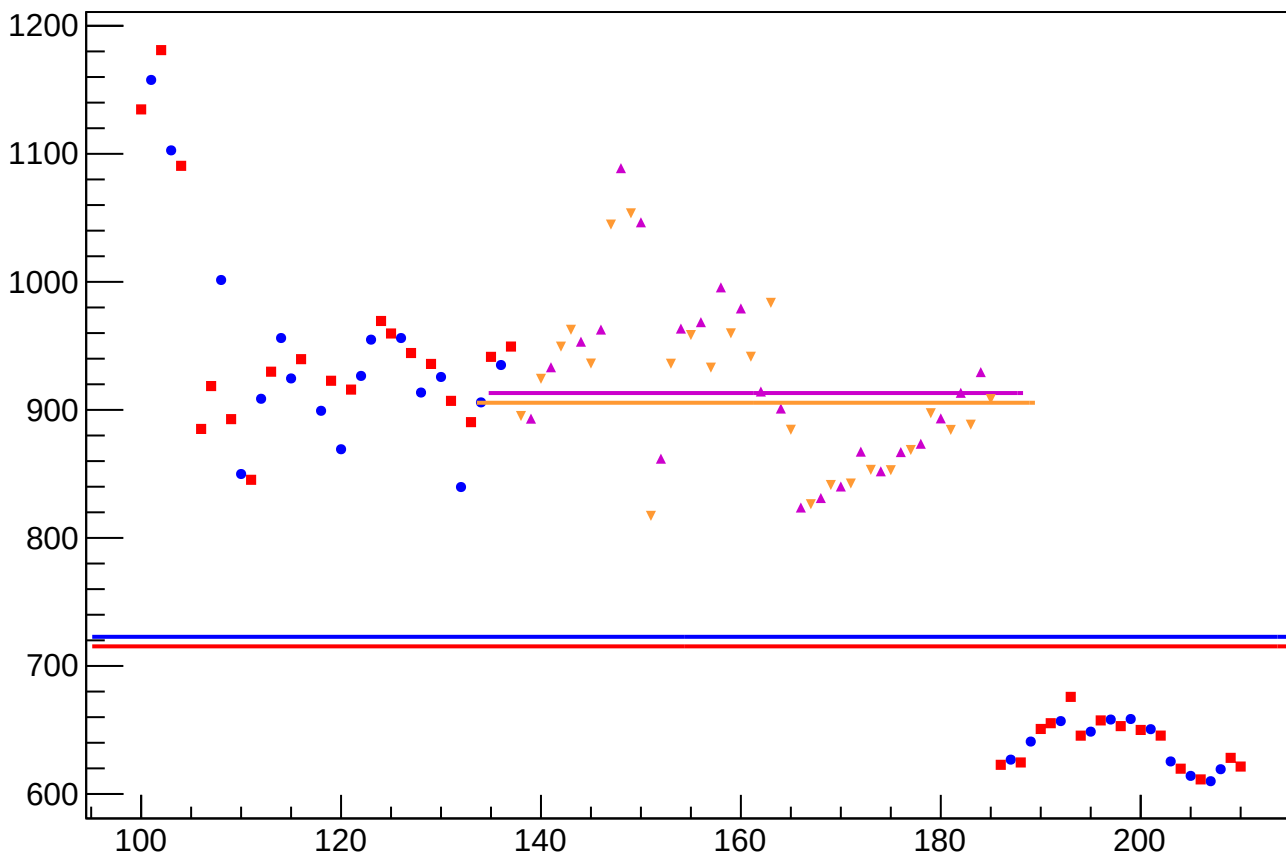
Right: -24.556 ± 0.131 $\chi^2/\text{NDF}: 192446.8/60$

In: -8.534 ± 0.145 $\chi^2/\text{NDF}: 163288.8/50$

Out: -6.705 ± 0.137 $\chi^2/\text{NDF}: 141799.0/57$

All: -7.563 ± 0.100 $\chi^2/\text{NDF}: 305172.0/108$

diff_bpm1i02X_rms vs Slug, Sign Corrected



Right In: 722.764 ± 0.137 χ^2/NDF : 1089869.9/27

Left Out: 905.578 ± 0.150 χ^2/NDF : 162073.5/24

Right Out: 715.296 ± 0.126 χ^2/NDF : 1189599.3/32

Left In: 913.165 ± 0.155 χ^2/NDF : 174438.8/22

Left: 909.225 ± 0.108 χ^2/NDF : 337749.0/47

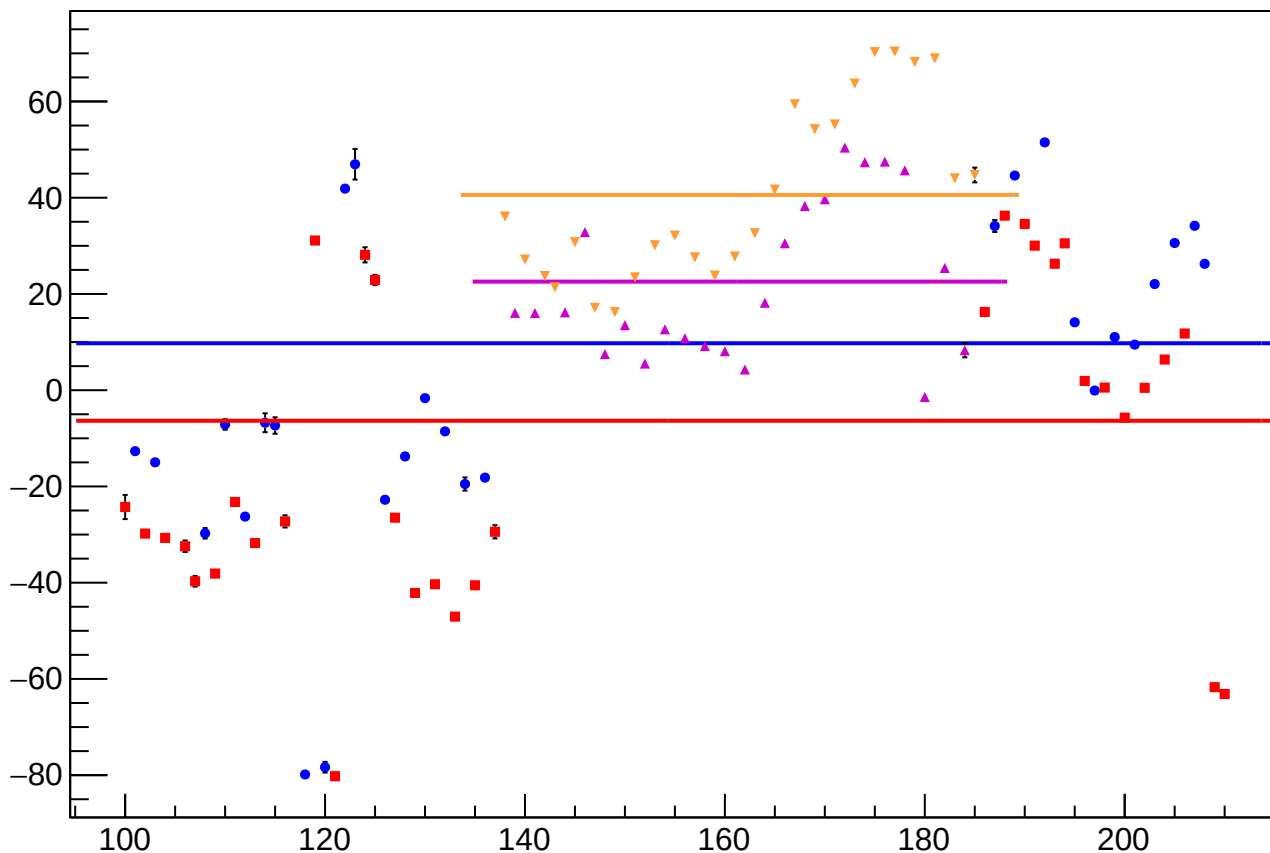
Right: 718.734 ± 0.093 χ^2/NDF : 2281075.5/60

In: 805.909 ± 0.103 χ^2/NDF : 2109143.3/50

Out: 794.598 ± 0.097 χ^2/NDF : 2295722.8/57

All: 799.903 ± 0.070 χ^2/NDF : 4411302.2/108

diff_bpm1i02Y_mean vs Slug, Sign Corrected



Right In: 9.756 $\pm$ 0.142 χ^2/NDF : 41698.2/27

Left Out: 40.573 $\pm$ 0.168 χ^2/NDF :12079.0/24

Right Out: -6.352 $\pm$ 0.132 χ^2/NDF : 62047.4/32

Left In: 22.565 $\pm$ 0.175 χ^2/NDF :8167.7/22

Left: 31.959 $\pm$ 0.121 χ^2/NDF : 25752.7/47

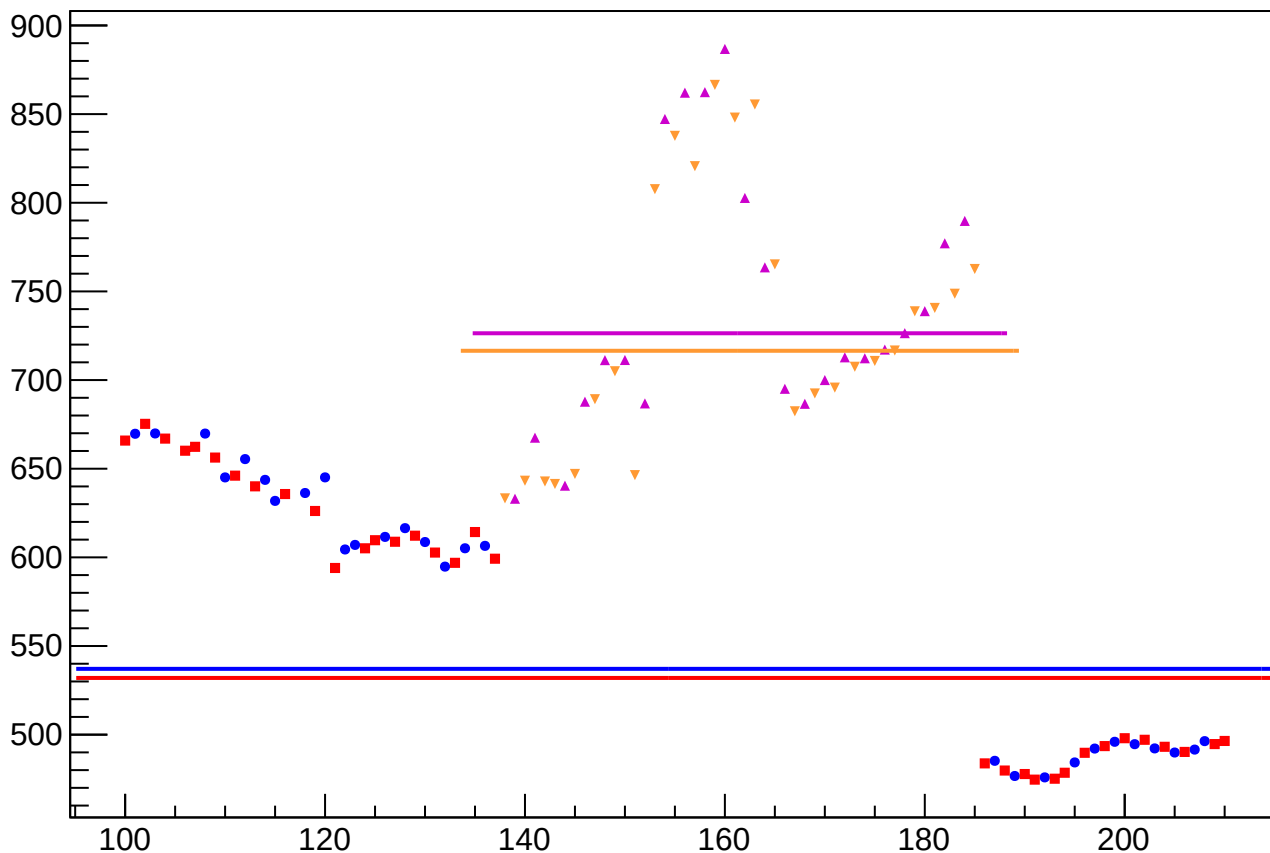
Right: 1.075 $\pm$ 0.097 χ^2/NDF : 110654.9/60

In: 14.843 $\pm$ 0.110 χ^2/NDF :53085.7/50

Out: 11.512 $\pm$ 0.104 χ^2/NDF :122535.8/57

All: 13.070 $\pm$ 0.076 χ^2/NDF : 176105.5/108

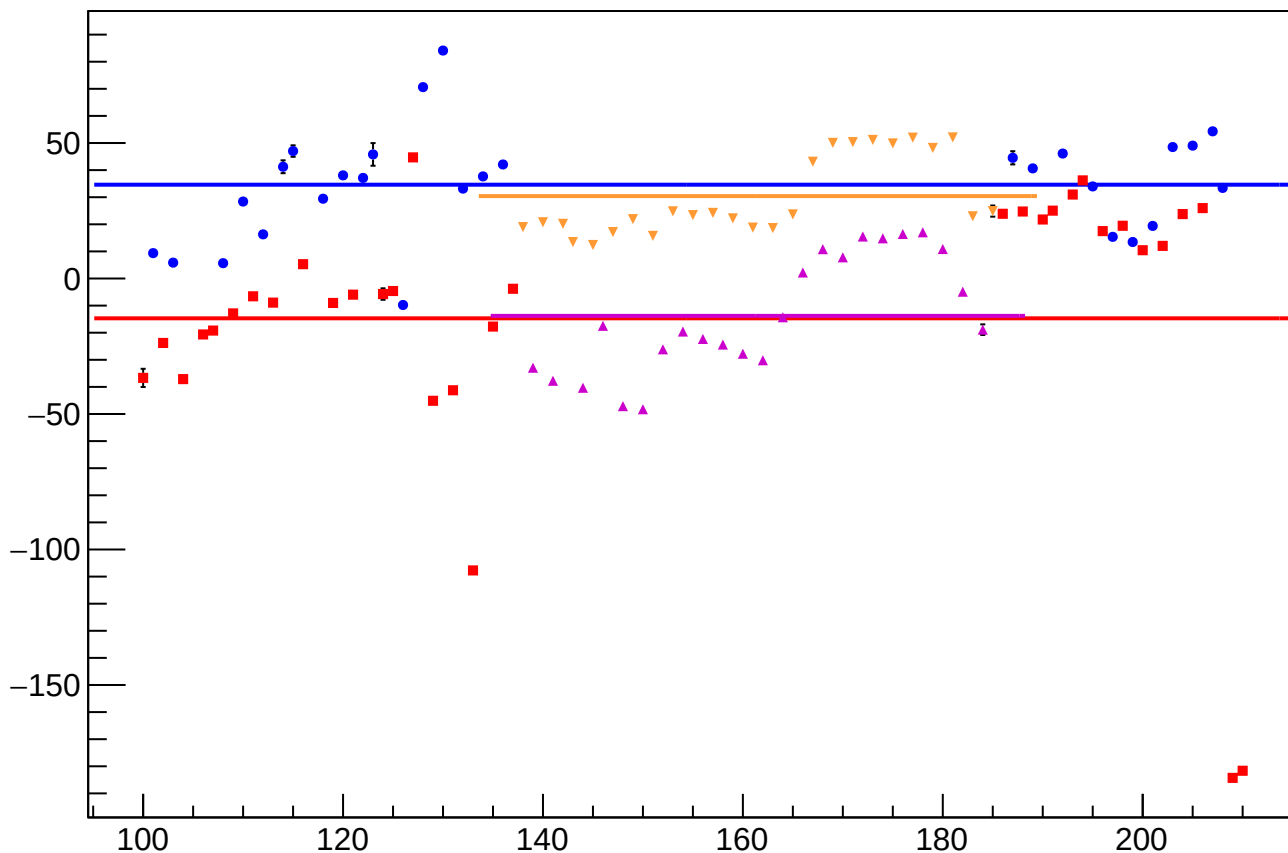
diff_bpm1i02Y_rms vs Slug, Sign Corrected



Right In: 537.119 $\pm$ 0.101 χ^2 /NDF: 469046.2/27
 Left Out: 716.515 $\pm$ 0.119 χ^2 /NDF:342740.2/24
 Right Out: 531.991 $\pm$ 0.093 χ^2 /NDF: 525985.3/32
 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: 534.356 $\pm$ 0.068 χ^2 /NDF: 996432.3/60
 In: 612.282 $\pm$ 0.078 χ^2 /NDF:2164731.2/50
 Out: 602.237 $\pm$ 0.073 χ^2 /NDF:2365852.8/57
 All: 606.936 $\pm$ 0.053 χ^2 /NDF: 4539386.8/108

diff_bpm1i04X_mean vs Slug, Sign Corrected



Right In: 34.616+/-0.224 χ^2/NDF : 8284.2/27

Left Out: 30.408+/-0.237 χ^2/NDF : 3808.0/24

Right Out: -14.693+/-0.211 χ^2/NDF : 71839.9/32

Left In: -13.787+/-0.246 χ^2/NDF : 7979.7/22

Left: 9.082+/-0.171 χ^2/NDF : 28511.9/47

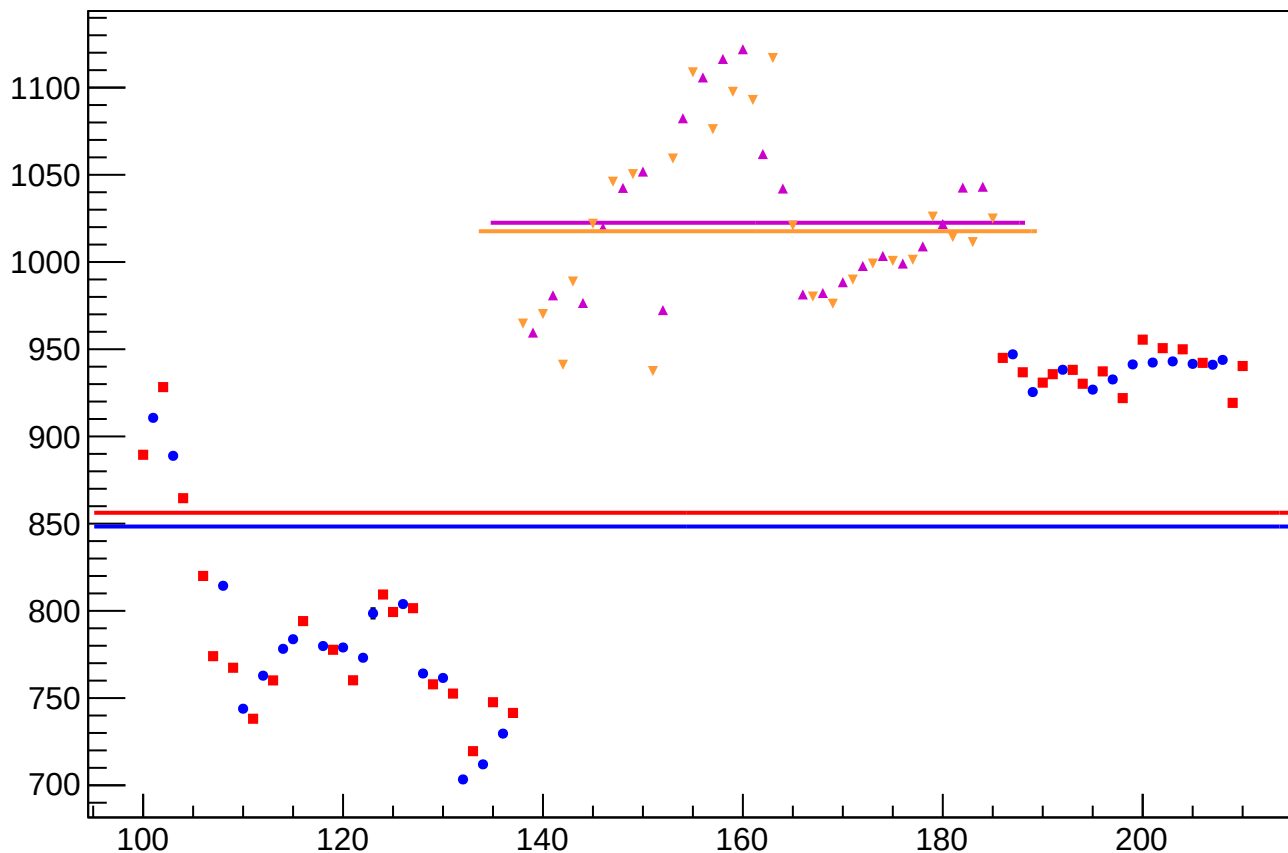
Right: 8.496+/-0.154 χ^2/NDF : 105756.5/60

In: 12.641+/-0.166 χ^2/NDF : 37431.8/50

Out: 5.234+/-0.158 χ^2/NDF : 95794.5/57

All: 8.758+/-0.114 χ^2/NDF : 134274.9/108

diff_bpm1i04X_rms vs Slug, Sign Corrected



Right In: 848.350 $\pm$ 0.159 χ^2 /NDF: 323533.9/27

Left Out: 1017.653 $\pm$ 0.168 χ^2 /NDF: 83612.5/24

Right Out: 856.243 $\pm$ 0.149 χ^2 /NDF: 335204.2/32

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

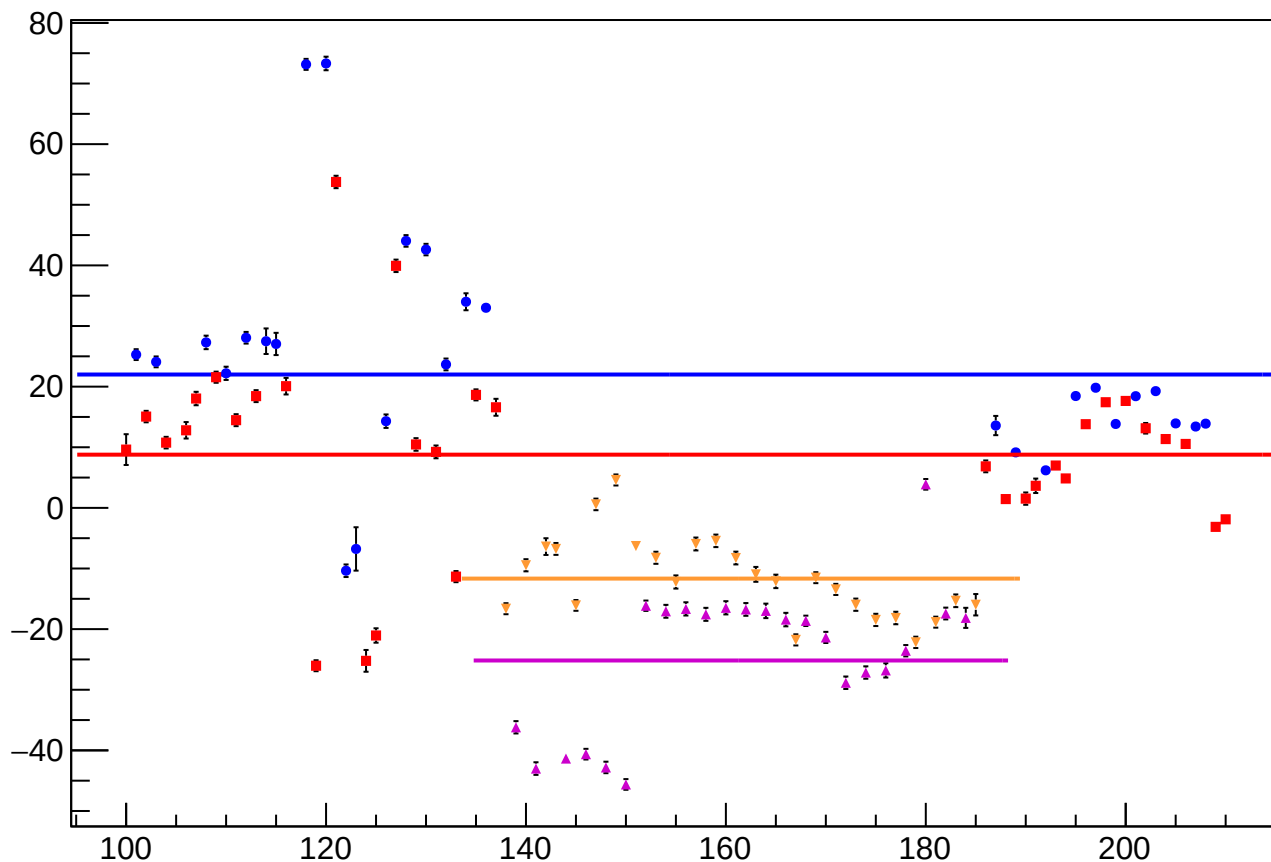
Right: 852.531 $\pm$ 0.109 χ^2 /NDF: 660051.5/60

In: 927.419 $\pm$ 0.117 χ^2 /NDF: 941272.2/50

Out: 927.557 $\pm$ 0.112 χ^2 /NDF: 934887.5/57

All: 927.491 $\pm$ 0.081 χ^2 /NDF: 1876160.4/108

diff_bpm1i04Y_mean vs Slug, Sign Corrected



Right In: 21.999 ± 0.162 $\chi^2/\text{NDF}: 9420.9/27$

Left Out: -11.664 ± 0.200 $\chi^2/\text{NDF}: 1147.4/24$

Right Out: 8.779 ± 0.150 $\chi^2/\text{NDF}: 7946.1/32$

Left In: -25.174 ± 0.207 $\chi^2/\text{NDF}: 3747.1/22$

Left: -18.184 ± 0.144 $\chi^2/\text{NDF}: 7090.4/47$

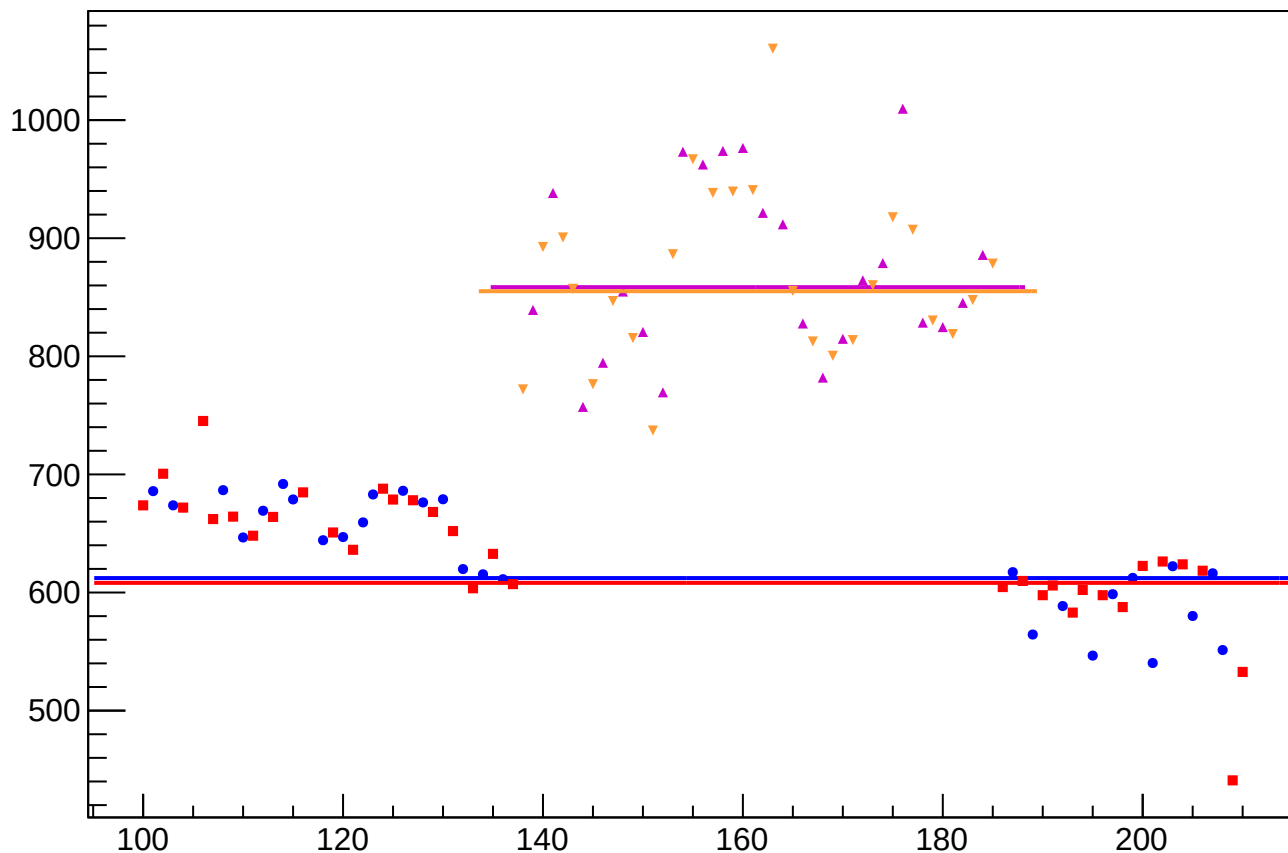
Right: 14.901 ± 0.110 $\chi^2/\text{NDF}: 20951.3/60$

In: 4.149 ± 0.128 $\chi^2/\text{NDF}: 45333.1/50$

Out: 1.416 ± 0.120 $\chi^2/\text{NDF}: 15759.3/57$

All: 2.701 ± 0.087 $\chi^2/\text{NDF}: 61335.5/108$

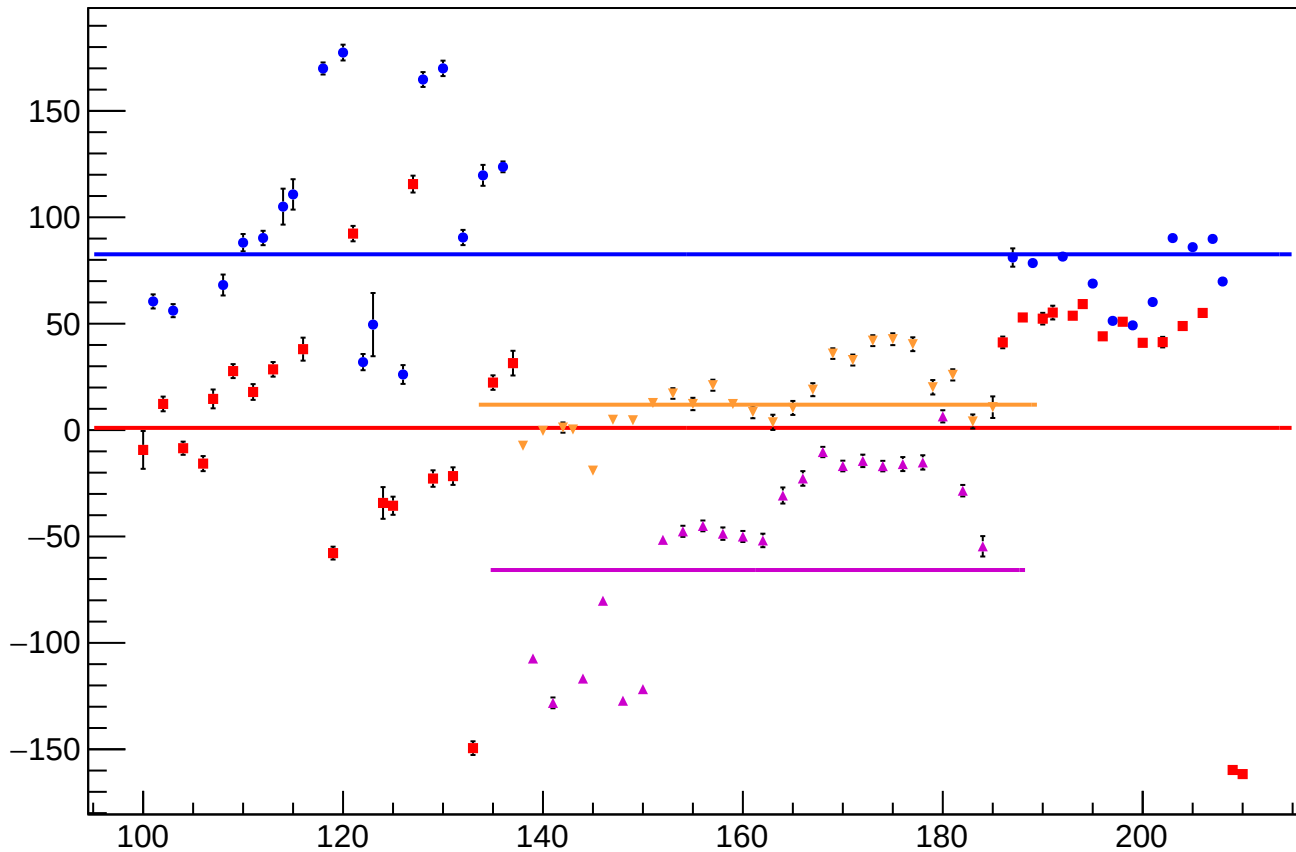
diff_bpm1i04Y_rms vs Slug, Sign Corrected



Right In: 612.243 $\pm$ 0.114 χ^2 /NDF: 163829.9/27
 Left Out: 855.131 $\pm$ 0.142 χ^2 /NDF:233746.7/24
 Right Out: 608.170 $\pm$ 0.106 χ^2 /NDF: 359452.8/32
 Left In: 858.563 $\pm$ 0.147 χ^2 /NDF:239019.8/22

Left: 856.788 $\pm$ 0.102 χ^2 /NDF: 473049.9/47
 Right: 610.056 $\pm$ 0.078 χ^2 /NDF: 523963.0/60
 In: 705.451 $\pm$ 0.090 χ^2 /NDF:2156858.7/50
 Out: 697.120 $\pm$ 0.085 χ^2 /NDF:2538810.6/57
 All: 701.038 $\pm$ 0.062 χ^2 /NDF: 4700187.3/108

diff_bpm1i06X_mean vs Slug, Sign Corrected



Right In: 82.613+/-0.493 χ^2/NDF : 4444.7/27

Left Out: 11.938+/-0.505 χ^2/NDF : 976.6/24

Right Out: 1.038+/-0.449 χ^2/NDF : 33625.2/32

Left In: -65.752+/-0.518 χ^2/NDF : 7335.8/22

Left: -25.968+/-0.362 χ^2/NDF : 19845.5/47

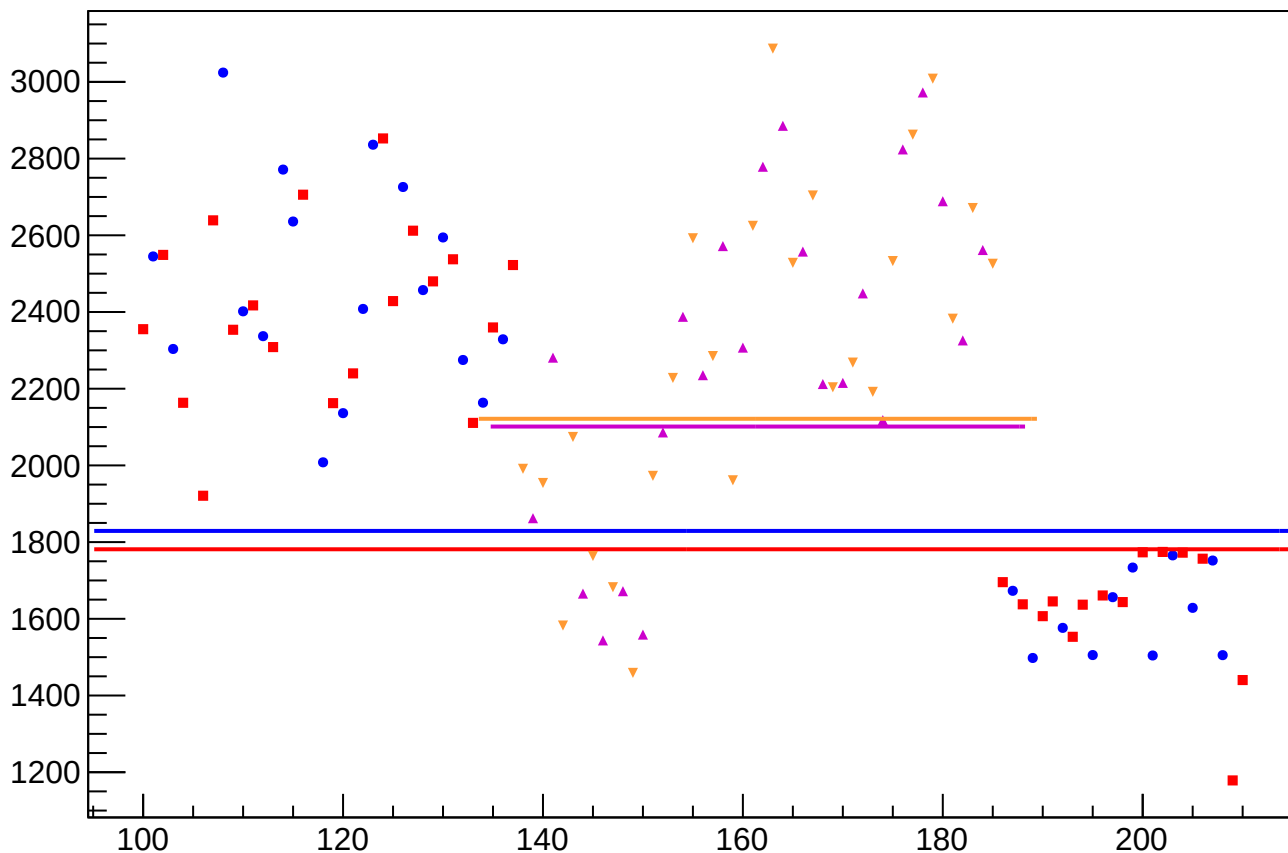
Right: 37.977+/-0.332 χ^2/NDF : 53043.6/60

In: 12.032+/-0.357 χ^2/NDF : 54842.9/50

Out: 5.842+/-0.335 χ^2/NDF : 34862.0/57

All: 8.744+/-0.244 χ^2/NDF : 89864.6/108

diff_bpm1i06X_rms vs Slug, Sign Corrected



Right In: 1829.172 ± 0.349

χ^2/NDF : 1167044.9/27

Left: 2111.691 ± 0.256

χ^2/NDF : 2749931.8/47

Left Out: 2121.567 ± 0.357

χ^2/NDF : 1387847.6/24

Right: 1802.979 ± 0.235

χ^2/NDF : 2646748.1/60

Right Out: 1781.303 ± 0.317

χ^2/NDF : 1469391.1/32

In: 1958.642 ± 0.252

χ^2/NDF : 2817358.6/50

Out: 1931.274 ± 0.237

χ^2/NDF : 3364391.0/57

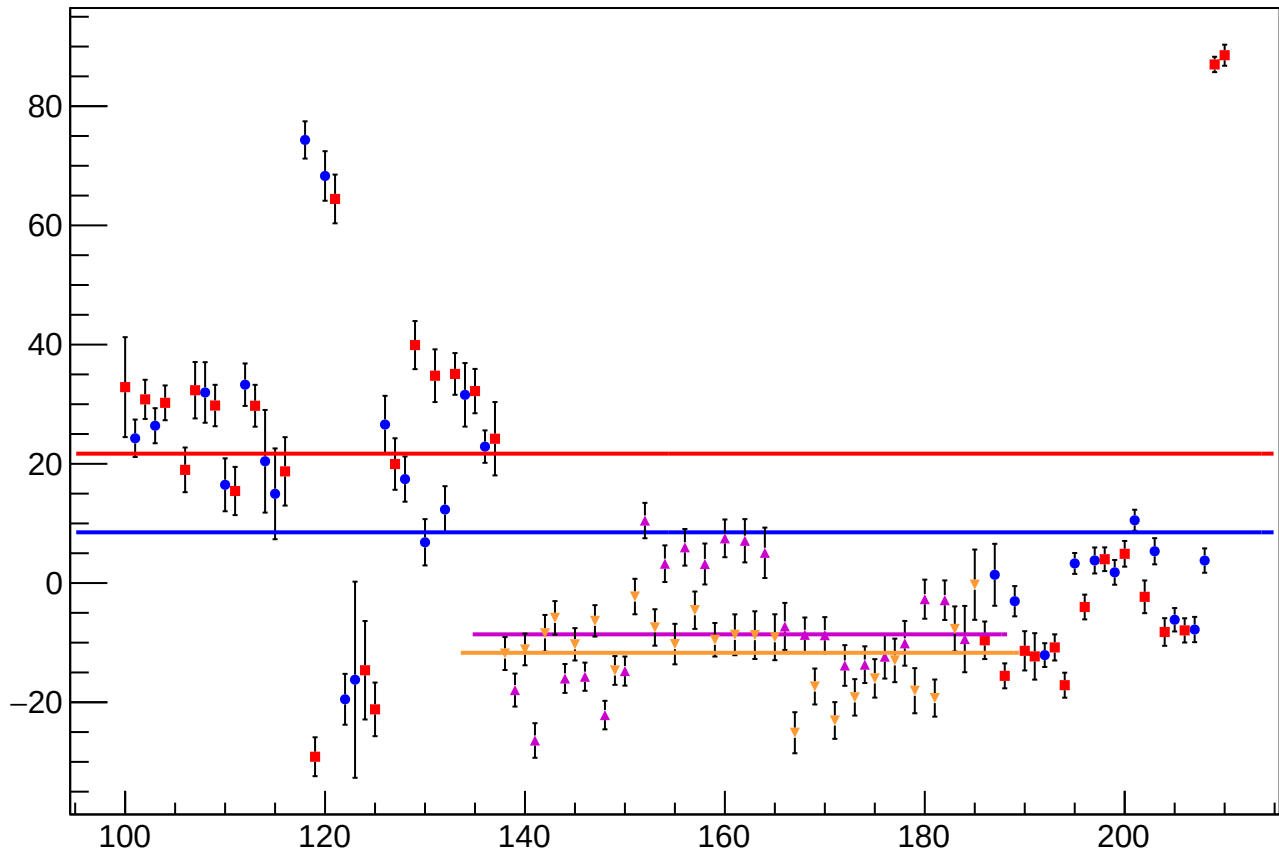
Left In: 2101.325 ± 0.366

χ^2/NDF : 1360518.3/22

All: 1944.106 ± 0.173

χ^2/NDF : 6187990.4/10

diff_bpm1i06Y_mean vs Slug, Sign Corrected



Right In: 8.508 ± 0.534 $\chi^2/\text{NDF}: 1177.9/27$

Left Out: -11.700 ± 0.625 $\chi^2/\text{NDF}: 85.0/24$

Right Out: 21.706 ± 0.484 $\chi^2/\text{NDF}: 6450.2/32$

Left In: -8.606 ± 0.642 $\chi^2/\text{NDF}: 264.2/22$

Left: -10.193 ± 0.448 $\chi^2/\text{NDF}: 361.1/47$

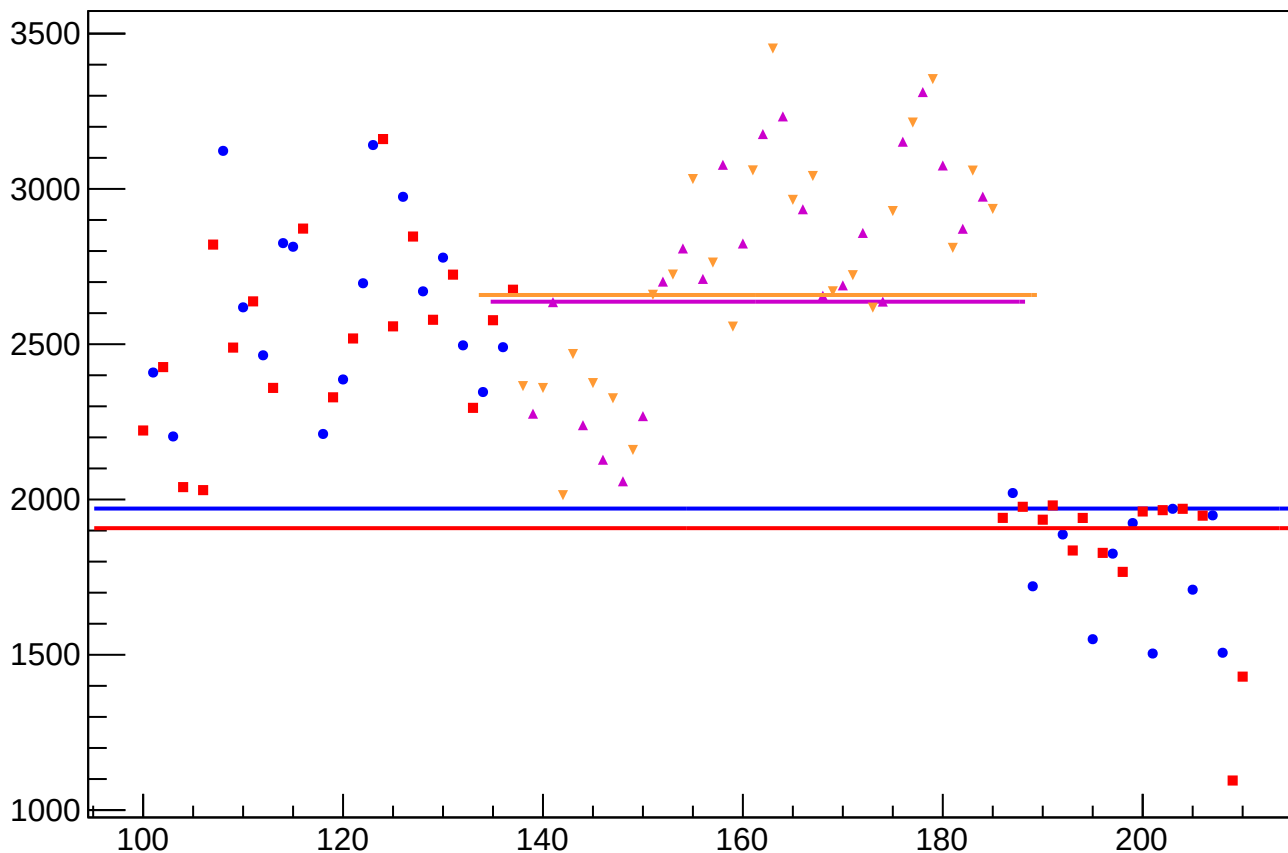
Right: 15.749 ± 0.359 $\chi^2/\text{NDF}: 7963.4/60$

In: 1.511 ± 0.410 $\chi^2/\text{NDF}: 1862.3/50$

Out: 9.186 ± 0.383 $\chi^2/\text{NDF}: 8318.9/57$

All: 5.615 ± 0.280 $\chi^2/\text{NDF}: 10368.1/108$

diff_bpm1i06Y_rms vs Slug, Sign Corrected



Right In: 1970.839 $\pm$ 0.377

χ^2/NDF : 1165720.8/27

Left: 2647.967 $\pm$ 0.317 χ^2/NDF : 1272190.1/47

Right: 1936.203 $\pm$ 0.254 χ^2/NDF : 2993230.1/60

Left Out: 2658.486 $\pm$ 0.442

χ^2/NDF : 618133.8/24

In: 2243.157 $\pm$ 0.290 χ^2/NDF : 3091413.5/50

Right Out: 1907.707 $\pm$ 0.342

χ^2/NDF : 1812164.7/32

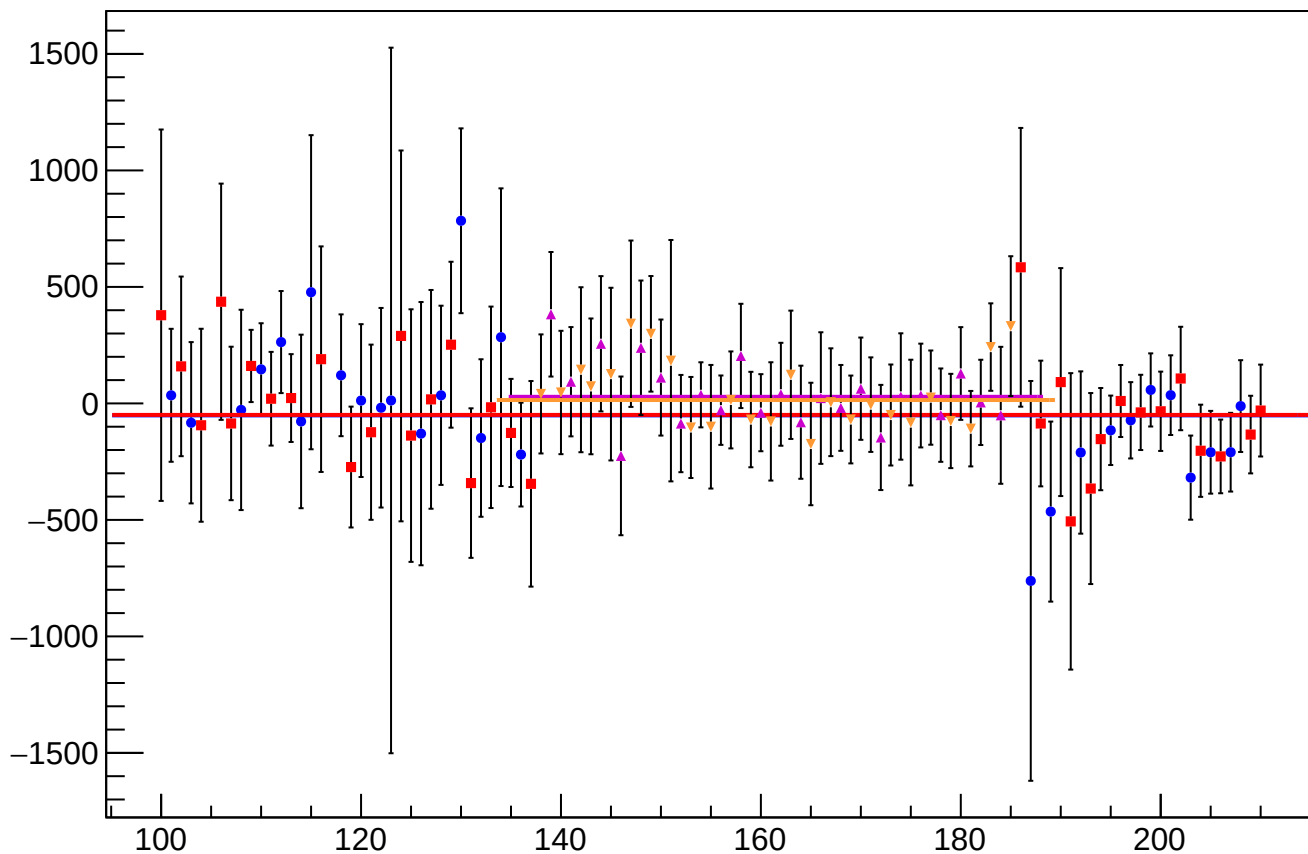
Out: 2189.084 $\pm$ 0.271 χ^2/NDF : 4232115.7/57

Left In: 2636.885 $\pm$ 0.454

χ^2/NDF : 652894.5/22

All: 2214.244 $\pm$ 0.198 χ^2/NDF : 7342088.1/10

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -51.361 ± 46.836 χ^2/NDF : 16.6/27

Left Out: 14.520 ± 47.528 χ^2/NDF : 7.8/24

Right Out: -49.360 ± 44.005 χ^2/NDF : 12.4/32

Left In: 28.310 ± 44.638 χ^2/NDF : 6.3/22

Left: 21.847 ± 32.538 χ^2/NDF : 14.1/47

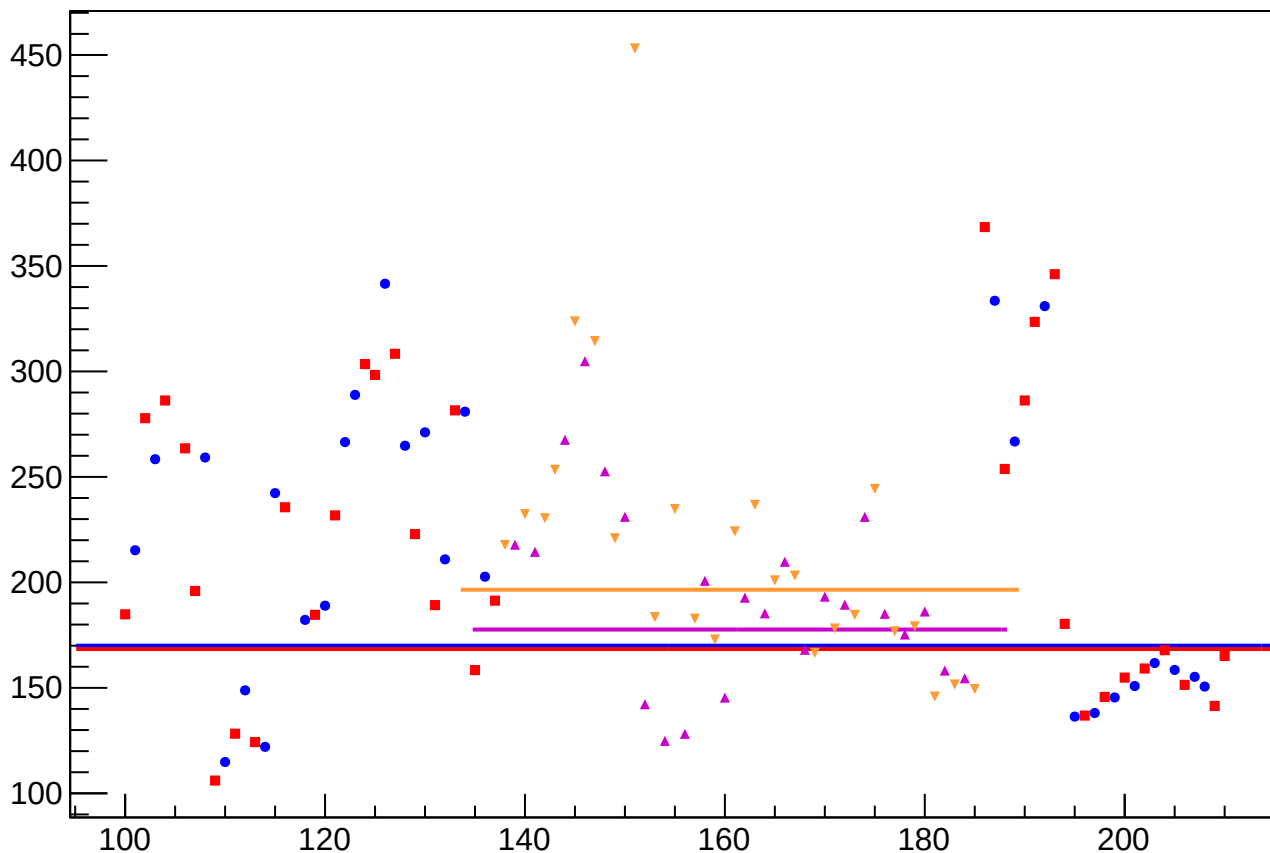
Right: -50.298 ± 32.071 χ^2/NDF : 28.9/60

In: -9.613 ± 32.313 χ^2/NDF : 24.4/50

Out: -19.875 ± 32.290 χ^2/NDF : 21.1/57

All: -14.747 ± 22.841 χ^2/NDF : 45.5/108

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 169.983 $\pm$ 0.033 χ^2 /NDF: 2114957.1/27

Left Out: 196.514 $\pm$ 0.034 χ^2 /NDF:1789504.4/24

Right Out: 168.402 $\pm$ 0.031 χ^2 /NDF: 2831633.6/32

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

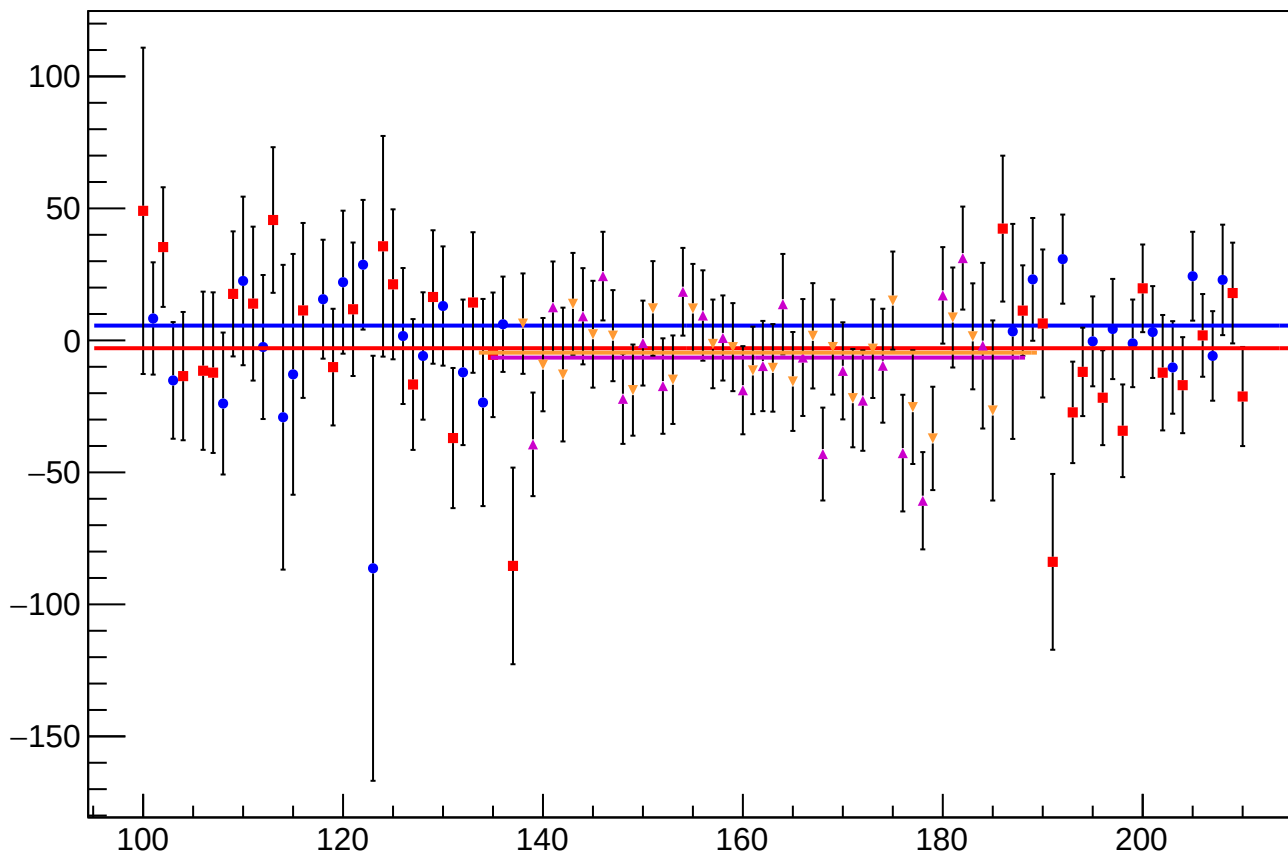
Right: 169.143 $\pm$ 0.023 χ^2 /NDF: 4947799.7/60

In: 173.997 $\pm$ 0.023 χ^2 /NDF:3773659.5/50

Out: 181.378 $\pm$ 0.023 χ^2 /NDF:4997865.4/57

All: 177.690 $\pm$ 0.016 χ^2 /NDF: 8823739.2/108

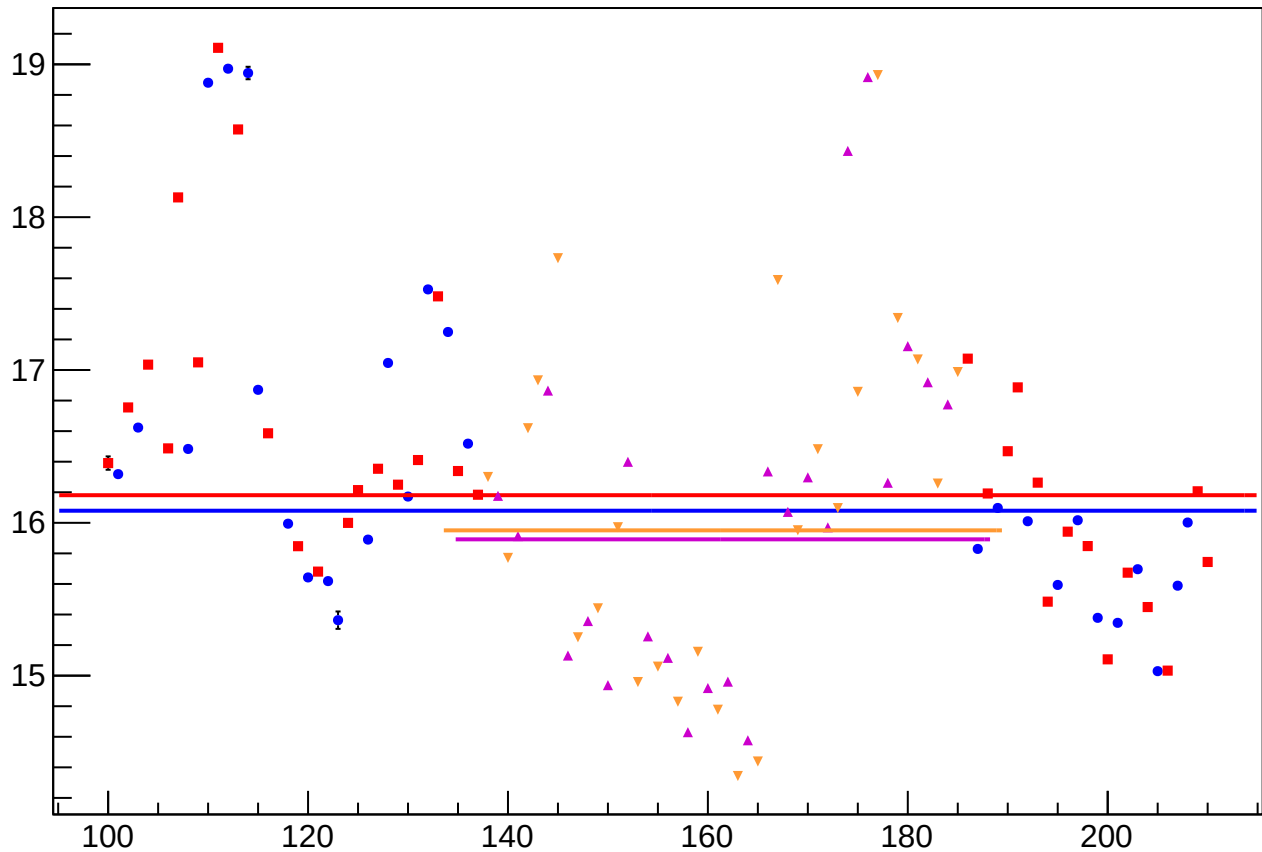
asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 5.606 ± 4.234 $\chi^2/\text{NDF}: 13.4/27$
 Left Out: -4.646 ± 3.728 $\chi^2/\text{NDF}: 12.1/24$
 Right Out: -2.964 ± 3.980 $\chi^2/\text{NDF}: 38.6/32$
 Left In: -6.526 ± 3.828 $\chi^2/\text{NDF}: 36.4/22$

Left: -5.561 ± 2.670 $\chi^2/\text{NDF}: 48.6/47$
 Right: 1.056 ± 2.900 $\chi^2/\text{NDF}: 54.2/60$
 In: -1.070 ± 2.839 $\chi^2/\text{NDF}: 54.3/50$
 Out: -3.860 ± 2.721 $\chi^2/\text{NDF}: 50.8/57$
 All: -2.525 ± 1.964 $\chi^2/\text{NDF}: 105.6/108$

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 16.079 $\pm$ 0.003 χ^2/NDF : 77866.7/27

Left Out: 15.951 $\pm$ 0.003 χ^2/NDF :173458.5/24

Right Out: 16.181 $\pm$ 0.003 χ^2/NDF : 89079.3/32

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

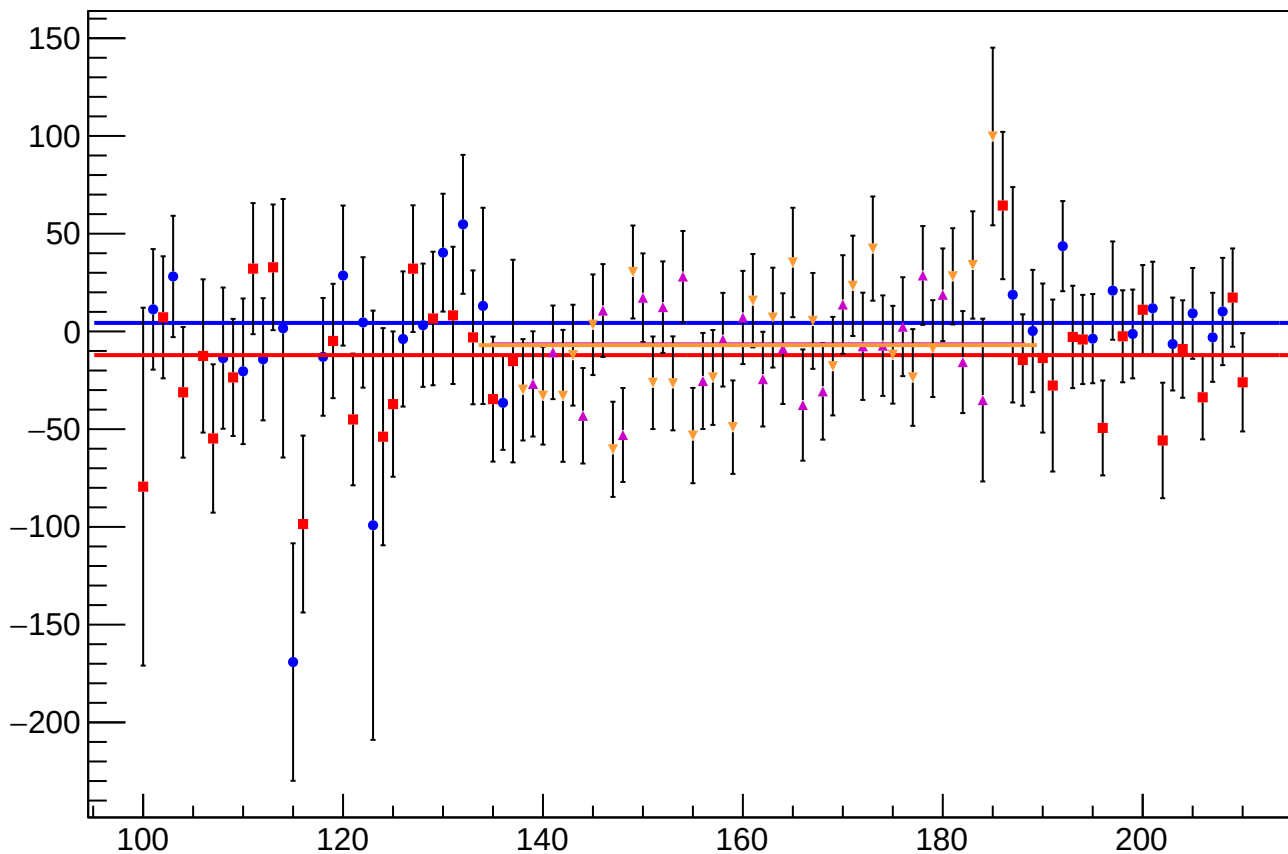
Right: 16.133 $\pm$ 0.002 χ^2/NDF : 167556.4/60

In: 15.976 $\pm$ 0.002 χ^2/NDF :227114.9/50

Out: 16.058 $\pm$ 0.002 χ^2/NDF :266096.6/57

All: 16.019 $\pm$ 0.001 χ^2/NDF : 494083.3/108

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 4.352 ± 5.667 $\chi^2/\text{NDF}: 22.0/27$

Left Out: -7.017 ± 5.121 $\chi^2/\text{NDF}: 37.4/24$

Right Out: -12.115 ± 5.317 $\chi^2/\text{NDF}: 28.0/32$

Left In: -6.611 ± 5.251 $\chi^2/\text{NDF}: 19.1/22$

Left: -6.820 ± 3.666 $\chi^2/\text{NDF}: 56.6/47$

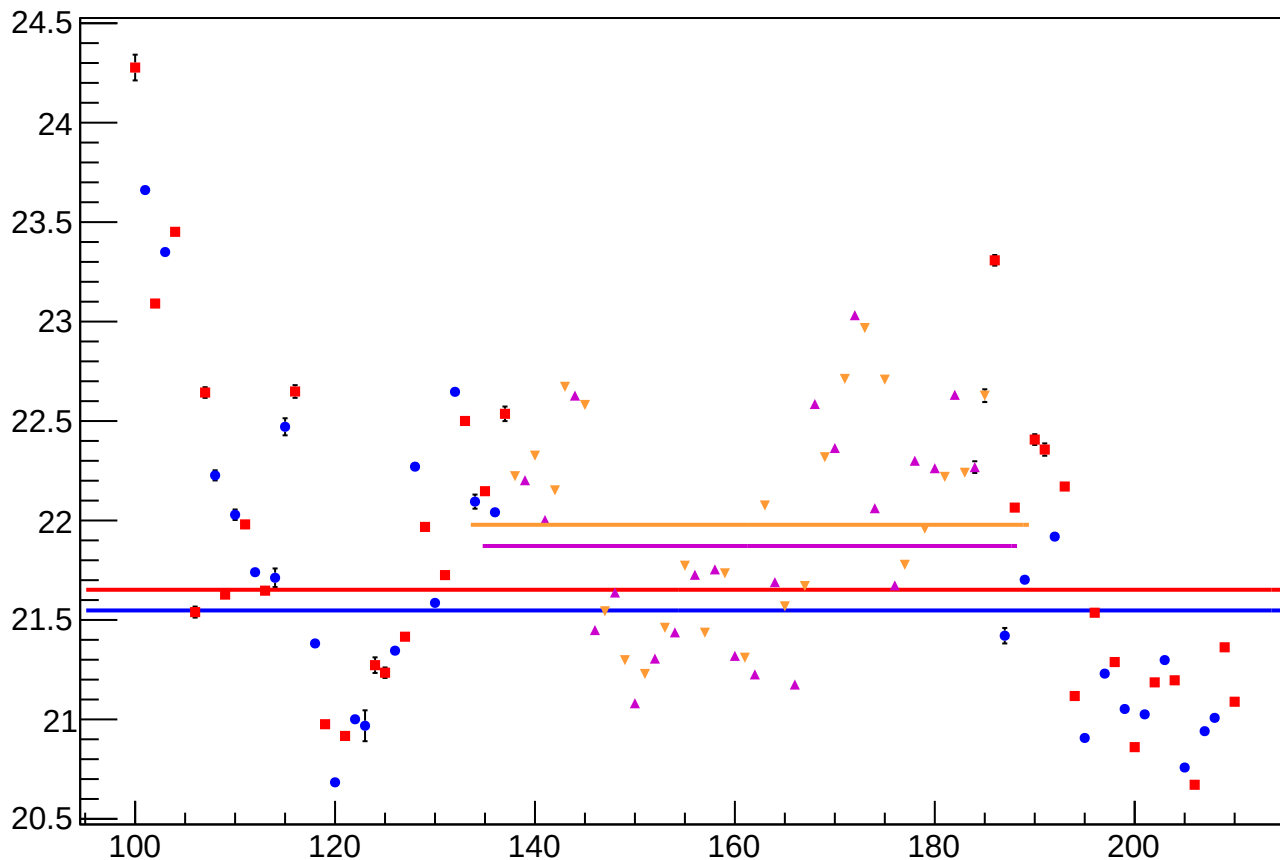
Right: -4.405 ± 3.878 $\chi^2/\text{NDF}: 54.6/60$

In: -1.546 ± 3.852 $\chi^2/\text{NDF}: 43.2/50$

Out: -9.470 ± 3.689 $\chi^2/\text{NDF}: 65.9/57$

All: -5.680 ± 2.664 $\chi^2/\text{NDF}: 111.3/108$

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 21.548+/-0.004 χ^2/NDF : 32776.2/27

Left Out: 21.978+/-0.004 χ^2/NDF :19430.2/24

Right Out: 21.652+/-0.004 χ^2/NDF : 36329.4/32

Left In: 21.872+/-0.004 χ^2/NDF :20524.9/22

Left: 21.926+/-0.003 χ^2/NDF : 40377.5/47

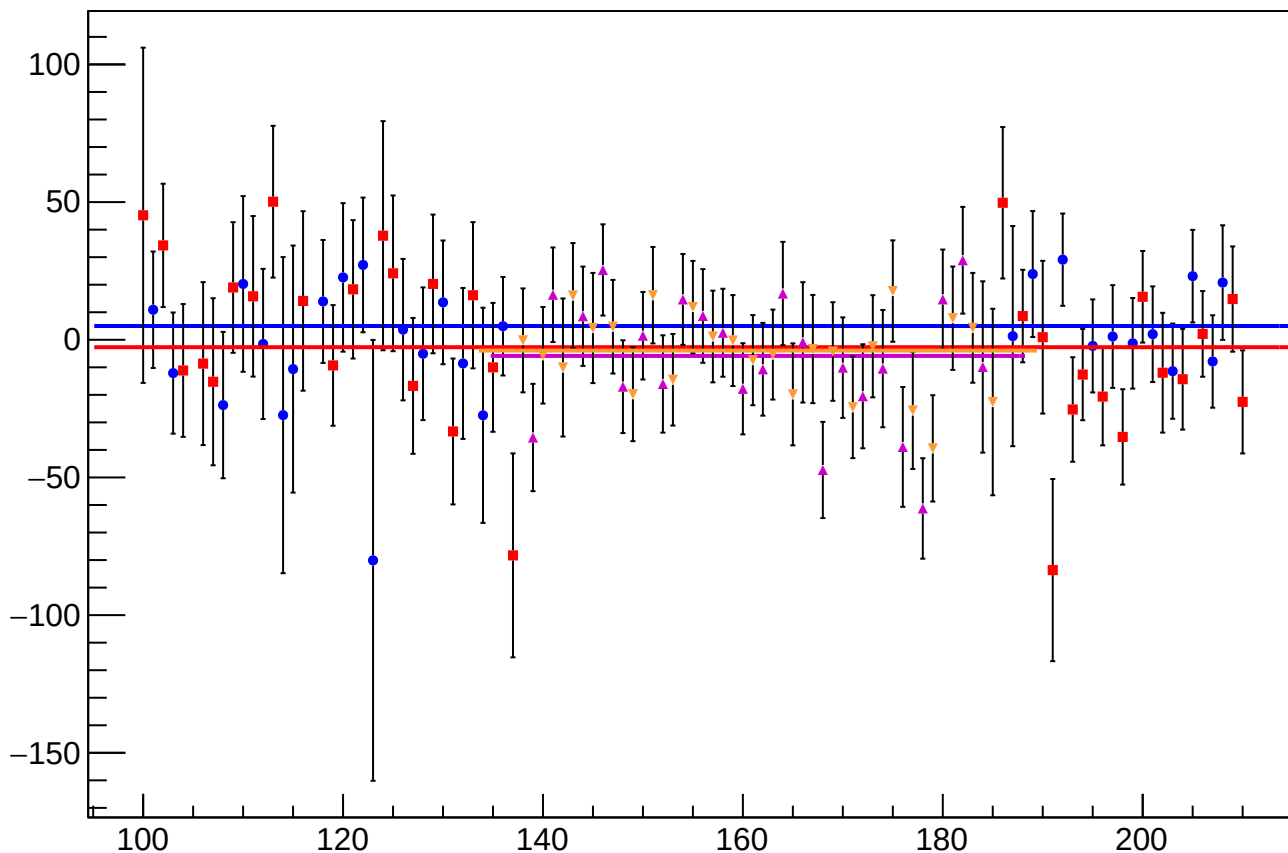
Right: 21.603+/-0.003 χ^2/NDF : 69463.9/60

In: 21.722+/-0.003 χ^2/NDF :56819.7/50

Out: 21.821+/-0.003 χ^2/NDF :59675.1/57

All: 21.774+/-0.002 χ^2/NDF : 117185.7/108

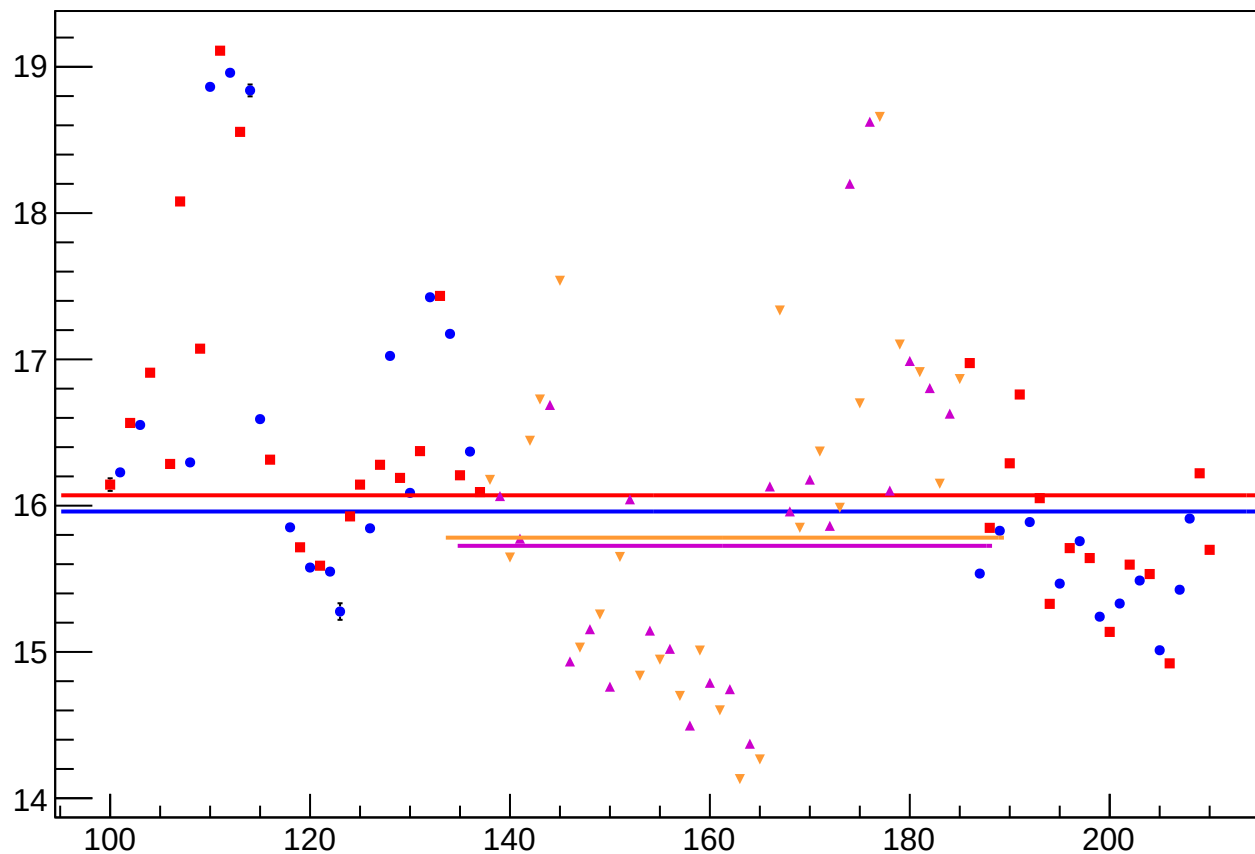
asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 5.002 ± 4.203 $\chi^2/\text{NDF}: 12.8/27$
 Left Out: -3.927 ± 3.688 $\chi^2/\text{NDF}: 14.0/24$
 Right Out: -2.695 ± 3.953 $\chi^2/\text{NDF}: 39.1/32$
 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: 0.917 ± 2.880 $\chi^2/\text{NDF}: 53.6/60$
 In: -0.994 ± 2.813 $\chi^2/\text{NDF}: 52.6/50$
 Out: -3.354 ± 2.697 $\chi^2/\text{NDF}: 53.1/57$
 All: -2.224 ± 1.947 $\chi^2/\text{NDF}: 106.1/108$

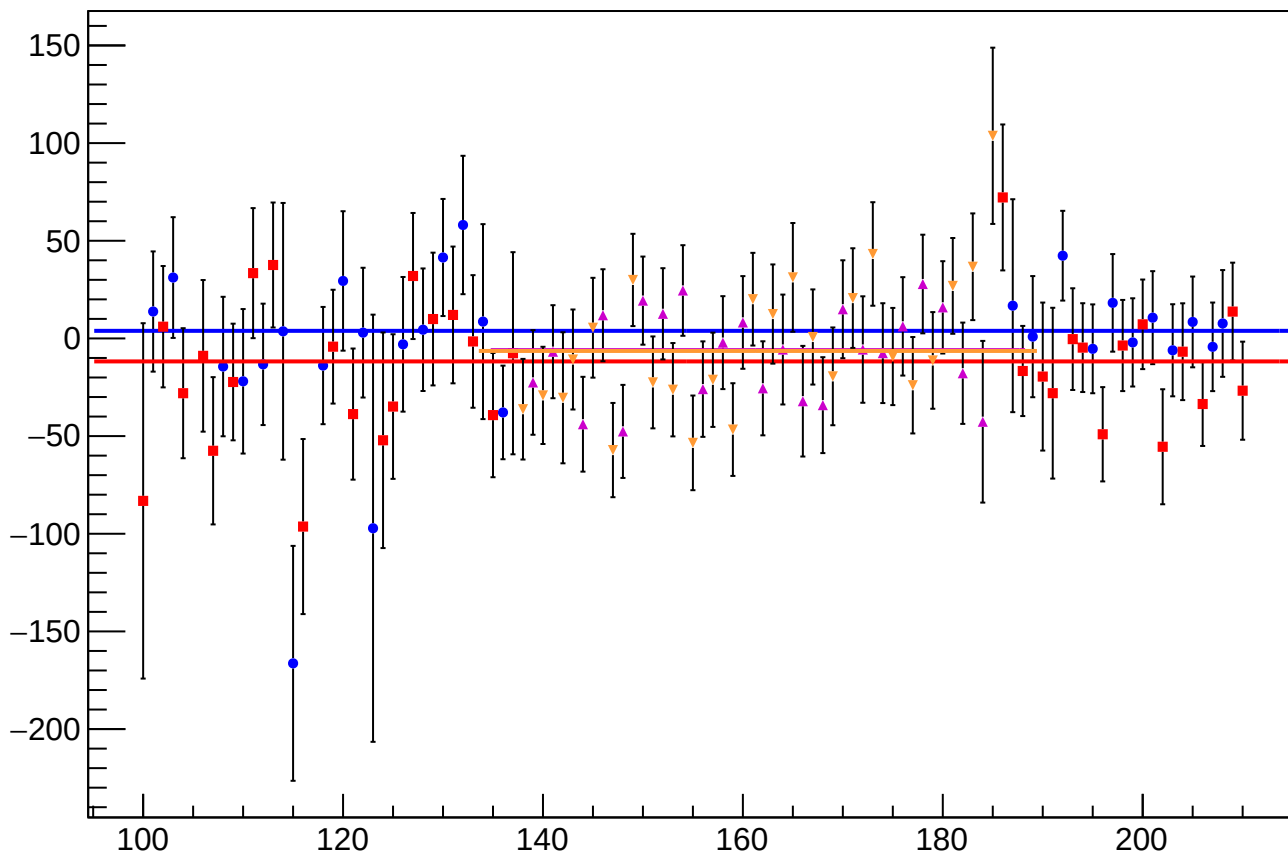
asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 15.960 $\pm$ 0.003 χ^2 /NDF: 80741.8/27
 Left Out: 15.781 $\pm$ 0.003 χ^2 /NDF:172894.3/24
 Right Out: 16.071 $\pm$ 0.003 χ^2 /NDF: 91403.7/32
 Left In: 15.725 $\pm$ 0.003 χ^2 /NDF:145830.9/22

Left: 15.754 $\pm$ 0.002 χ^2 /NDF: 318948.8/47
 Right: 16.019 $\pm$ 0.002 χ^2 /NDF: 172882.0/60
 In: 15.831 $\pm$ 0.002 χ^2 /NDF:230013.0/50
 Out: 15.916 $\pm$ 0.002 χ^2 /NDF:270032.1/57
 All: 15.875 $\pm$ 0.001 χ^2 /NDF: 501007.1/108

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 3.887 ± 5.641 χ^2/NDF : 22.5/27

Left Out: -6.404 ± 5.091 χ^2/NDF : 37.4/24

Right Out: -11.767 ± 5.290 χ^2/NDF : 29.2/32

Left In: -5.978 ± 5.222 χ^2/NDF : 18.5/22

Left: -6.196 ± 3.646 χ^2/NDF : 55.9/47

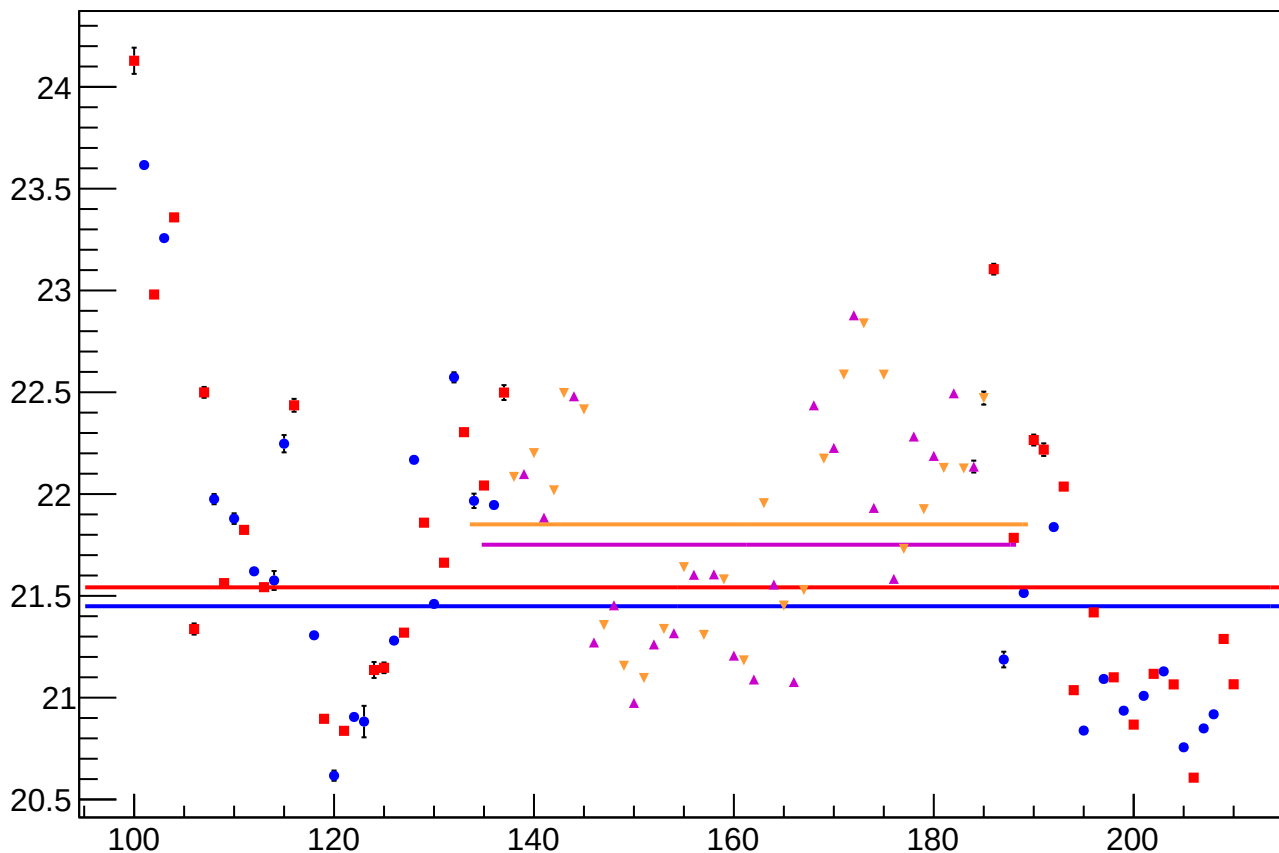
Right: -4.442 ± 3.859 χ^2/NDF : 55.8/60

In: -1.425 ± 3.832 χ^2/NDF : 42.7/50

Out: -8.982 ± 3.668 χ^2/NDF : 67.1/57

All: -5.369 ± 2.650 χ^2/NDF : 111.9/108

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 21.449 $\pm$ 0.004 χ^2 /NDF: 32293.9/27

Left Out: 21.851 $\pm$ 0.004 χ^2 /NDF:19631.8/24

Right Out: 21.542 $\pm$ 0.004 χ^2 /NDF: 33840.3/32

Left In: 21.751 $\pm$ 0.004 χ^2 /NDF:20516.3/22

Left: 21.802 $\pm$ 0.003 χ^2 /NDF: 40523.6/47

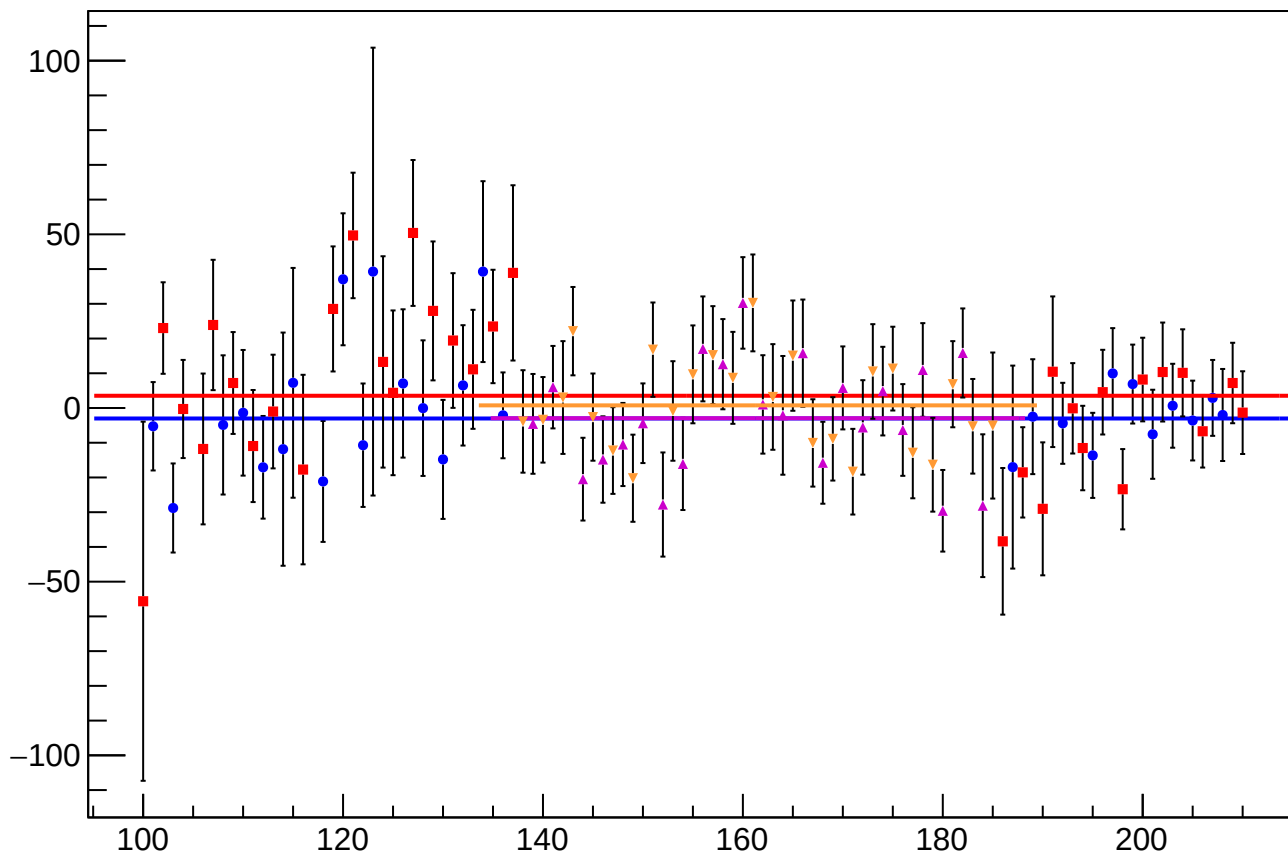
Right: 21.498 $\pm$ 0.003 χ^2 /NDF: 66422.2/60

In: 21.612 $\pm$ 0.003 χ^2 /NDF:55900.4/50

Out: 21.702 $\pm$ 0.003 χ^2 /NDF:57021.0/57

All: 21.659 $\pm$ 0.002 χ^2 /NDF: 113505.6/108

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -3.020 ± 2.883 $\chi^2/\text{NDF}: 18.2/27$

Left Out: 0.759 ± 2.698 $\chi^2/\text{NDF}: 23.8/24$

Right Out: 3.525 ± 2.706 $\chi^2/\text{NDF}: 44.9/32$

Left In: -2.944 ± 2.757 $\chi^2/\text{NDF}: 30.9/22$

Left: -1.053 ± 1.929 $\chi^2/\text{NDF}: 55.7/47$

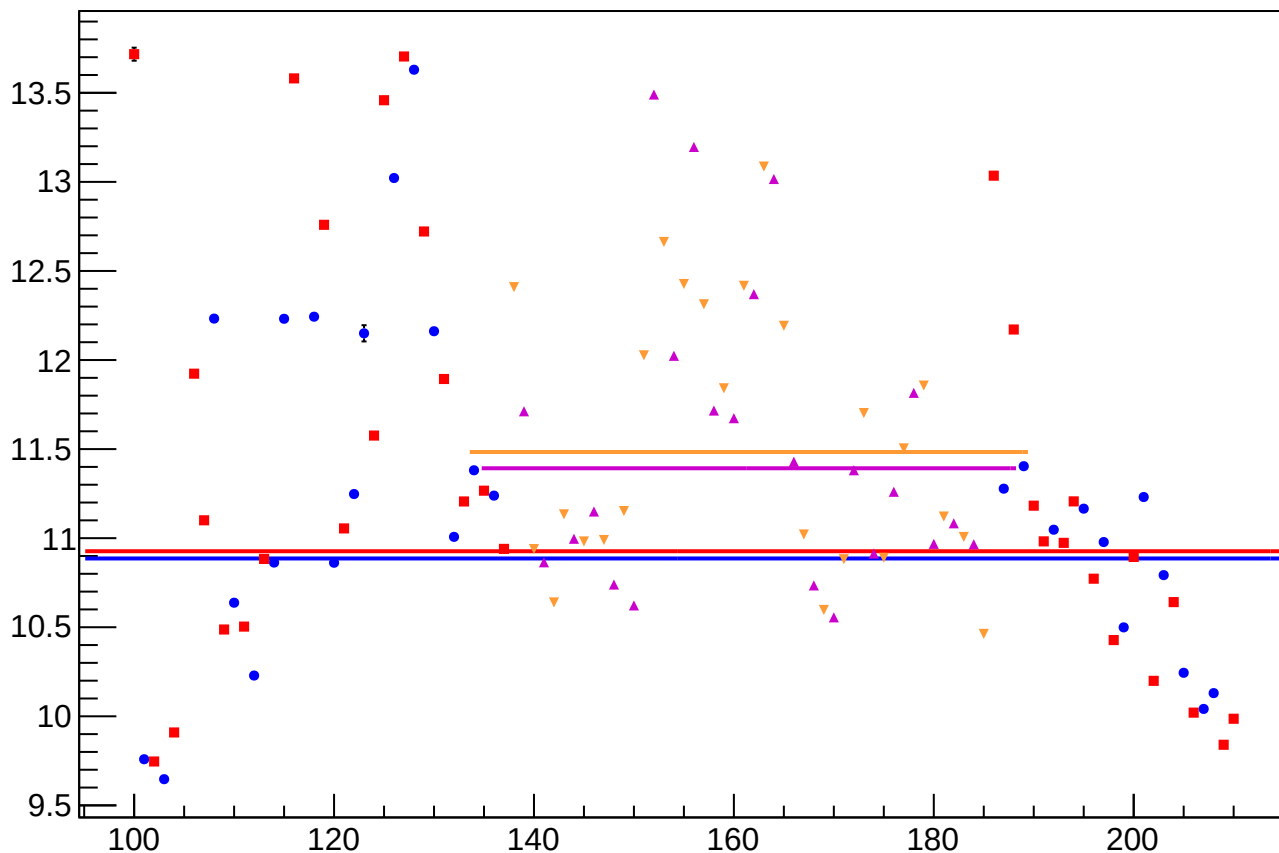
Right: 0.460 ± 1.973 $\chi^2/\text{NDF}: 65.9/60$

In: -2.980 ± 1.993 $\chi^2/\text{NDF}: 49.2/50$

Out: 2.138 ± 1.911 $\chi^2/\text{NDF}: 69.2/57$

All: -0.314 ± 1.379 $\chi^2/\text{NDF}: 121.8/108$

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 10.886 $\pm$ 0.002 χ^2 /NDF: 170288.1/27

Left Out: 11.484 $\pm$ 0.002 χ^2 /NDF:129805.4/24

Right Out: 10.927 $\pm$ 0.002 χ^2 /NDF: 255873.2/32

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

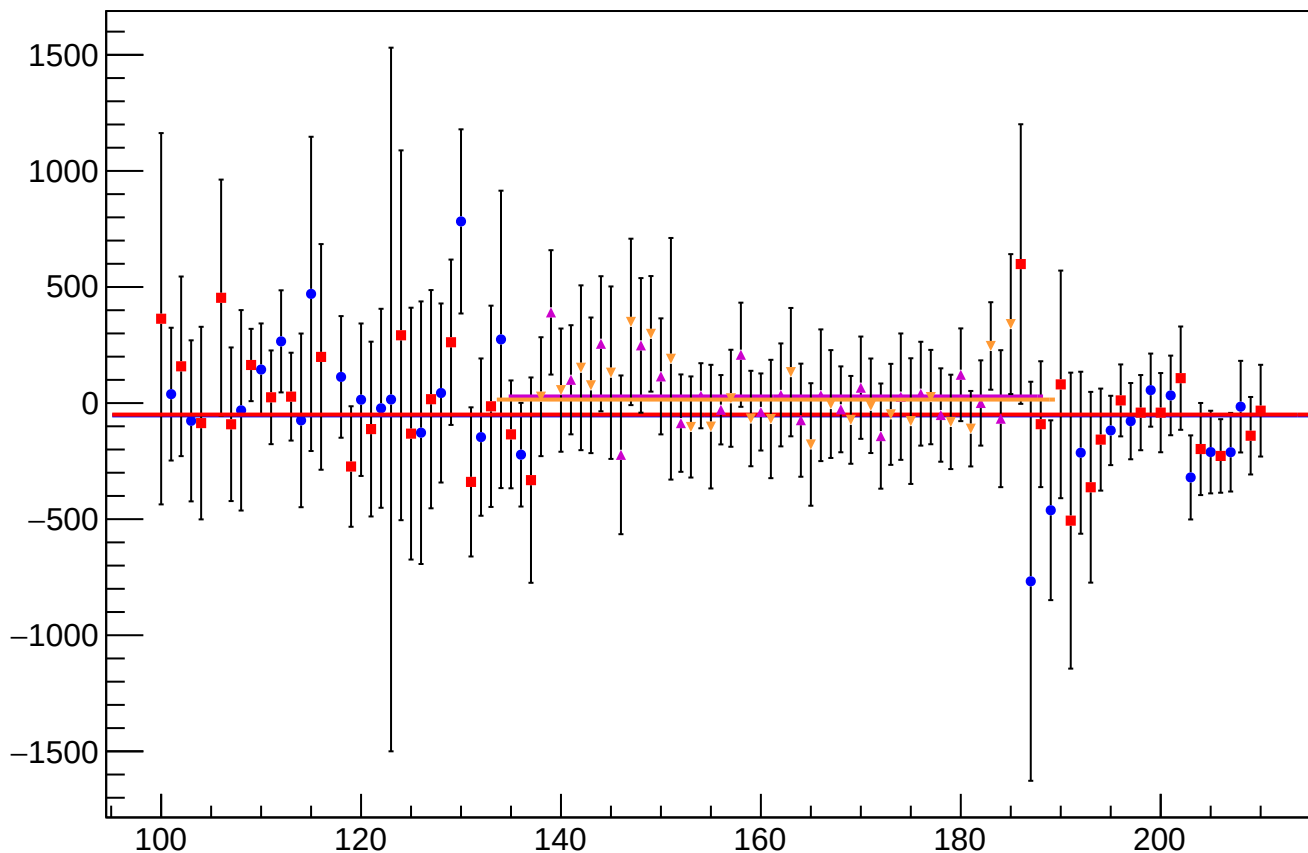
Right: 10.908 $\pm$ 0.001 χ^2 /NDF: 426373.3/60

In: 11.150 $\pm$ 0.001 χ^2 /NDF:353004.4/50

Out: 11.206 $\pm$ 0.001 χ^2 /NDF:428172.6/57

All: 11.179 $\pm$ 0.001 χ^2 /NDF: 781985.7/108

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs Slug, Sign Corrected



Right In: -53.087 ± 46.954 $\chi^2/\text{NDF}: 16.5/27$

Left Out: 15.130 ± 47.705 $\chi^2/\text{NDF}: 8.0/24$

Right Out: -49.515 ± 44.121 $\chi^2/\text{NDF}: 12.5/32$

Left In: 28.500 ± 44.797 $\chi^2/\text{NDF}: 6.4/22$

Left: 22.235 ± 32.656 $\chi^2/\text{NDF}: 14.4/47$

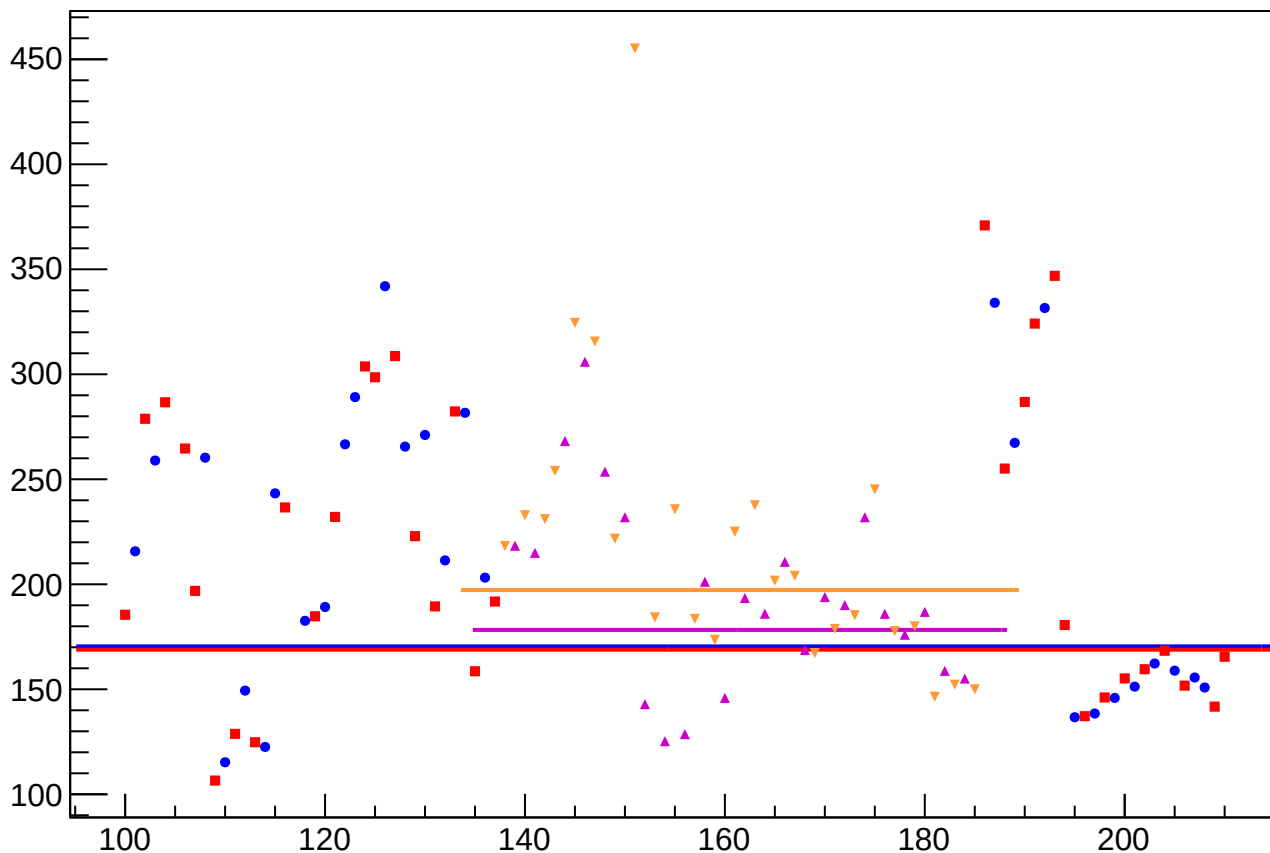
Right: -51.190 ± 32.153 $\chi^2/\text{NDF}: 29.0/60$

In: -10.376 ± 32.412 $\chi^2/\text{NDF}: 24.5/50$

Out: -19.711 ± 32.391 $\chi^2/\text{NDF}: 21.5/57$

All: -15.047 ± 22.911 $\chi^2/\text{NDF}: 46.0/108$

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs Slug, Sign Corrected



Right In: 170.424 $\pm$ 0.033 χ^2 /NDF: 2110223.8/27

Left Out: 197.249 $\pm$ 0.034 χ^2 /NDF:1786808.1/24

Right Out: 168.857 $\pm$ 0.031 χ^2 /NDF: 2828370.4/32

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

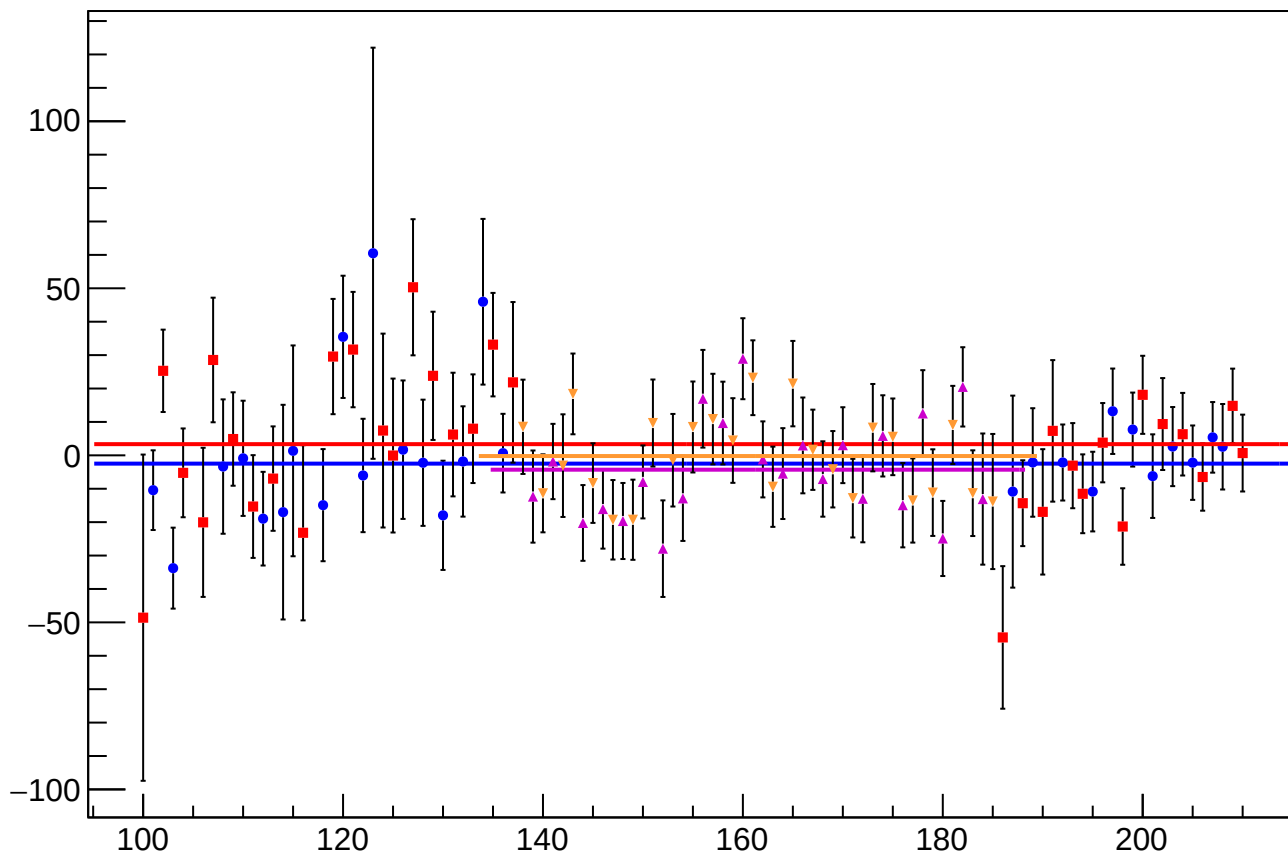
Right: 169.592 $\pm$ 0.023 χ^2 /NDF: 4939778.3/60

In: 174.535 $\pm$ 0.023 χ^2 /NDF:3768423.8/50

Out: 181.947 $\pm$ 0.023 χ^2 /NDF:4997013.2/57

All: 178.243 $\pm$ 0.016 χ^2 /NDF: 8817758.4/108

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs Slug, Sign Corrected



Right In: -2.481 ± 2.783 $\chi^2/\text{NDF}: 23.4/27$

Left Out: -0.211 ± 2.523 $\chi^2/\text{NDF}: 24.5/24$

Right Out: 3.349 ± 2.618 $\chi^2/\text{NDF}: 47.3/32$

Left In: -4.298 ± 2.589 $\chi^2/\text{NDF}: 31.6/22$

Left: -2.202 ± 1.807 $\chi^2/\text{NDF}: 57.4/47$

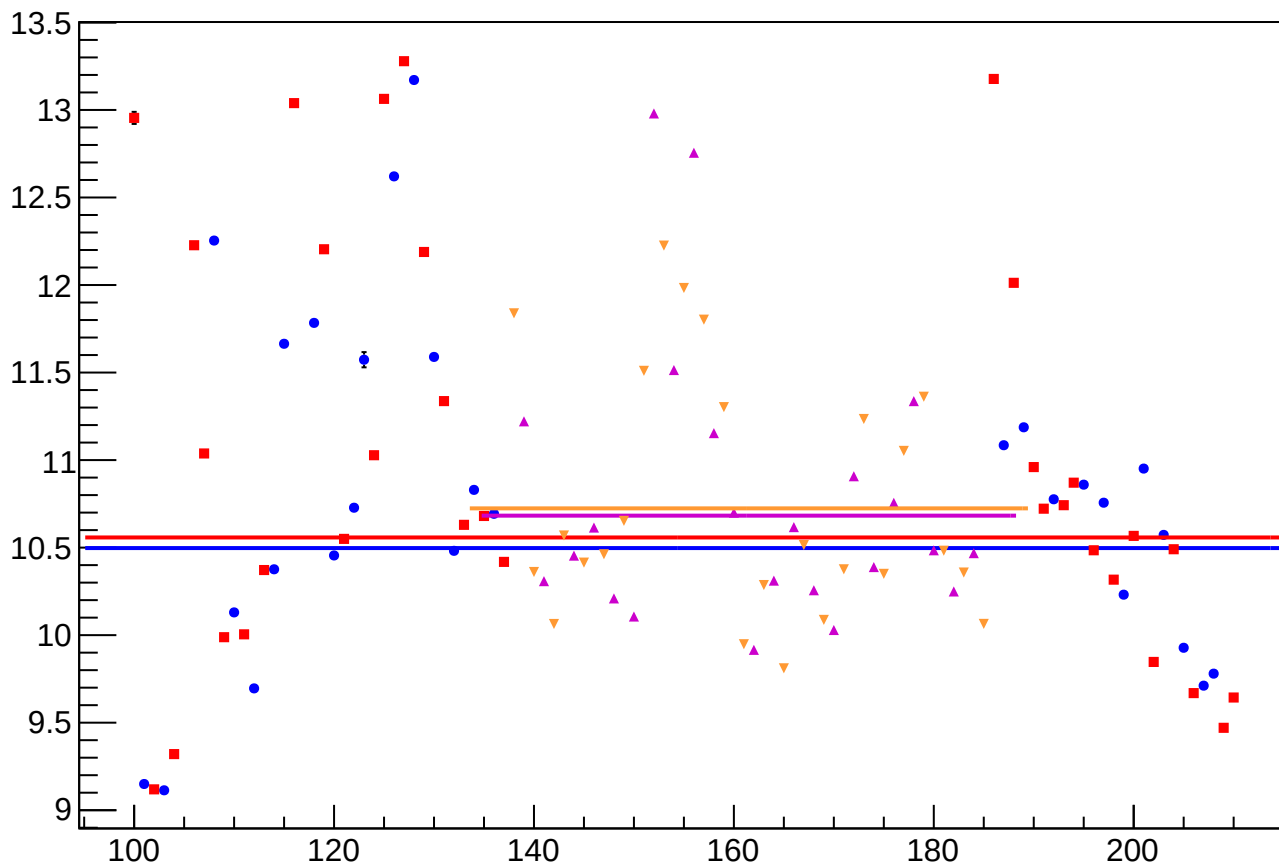
Right: 0.612 ± 1.907 $\chi^2/\text{NDF}: 73.0/60$

In: -3.455 ± 1.896 $\chi^2/\text{NDF}: 55.2/50$

Out: 1.503 ± 1.817 $\chi^2/\text{NDF}: 72.8/57$

All: -0.870 ± 1.312 $\chi^2/\text{NDF}: 131.6/108$

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs Slug, Sign Corrected



Right In: 10.497 $\pm$ 0.002 χ^2 /NDF: 195478.8/27

Left Out: 10.724 $\pm$ 0.002 χ^2 /NDF:132558.9/24

Right Out: 10.558 $\pm$ 0.002 χ^2 /NDF: 294468.3/32

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

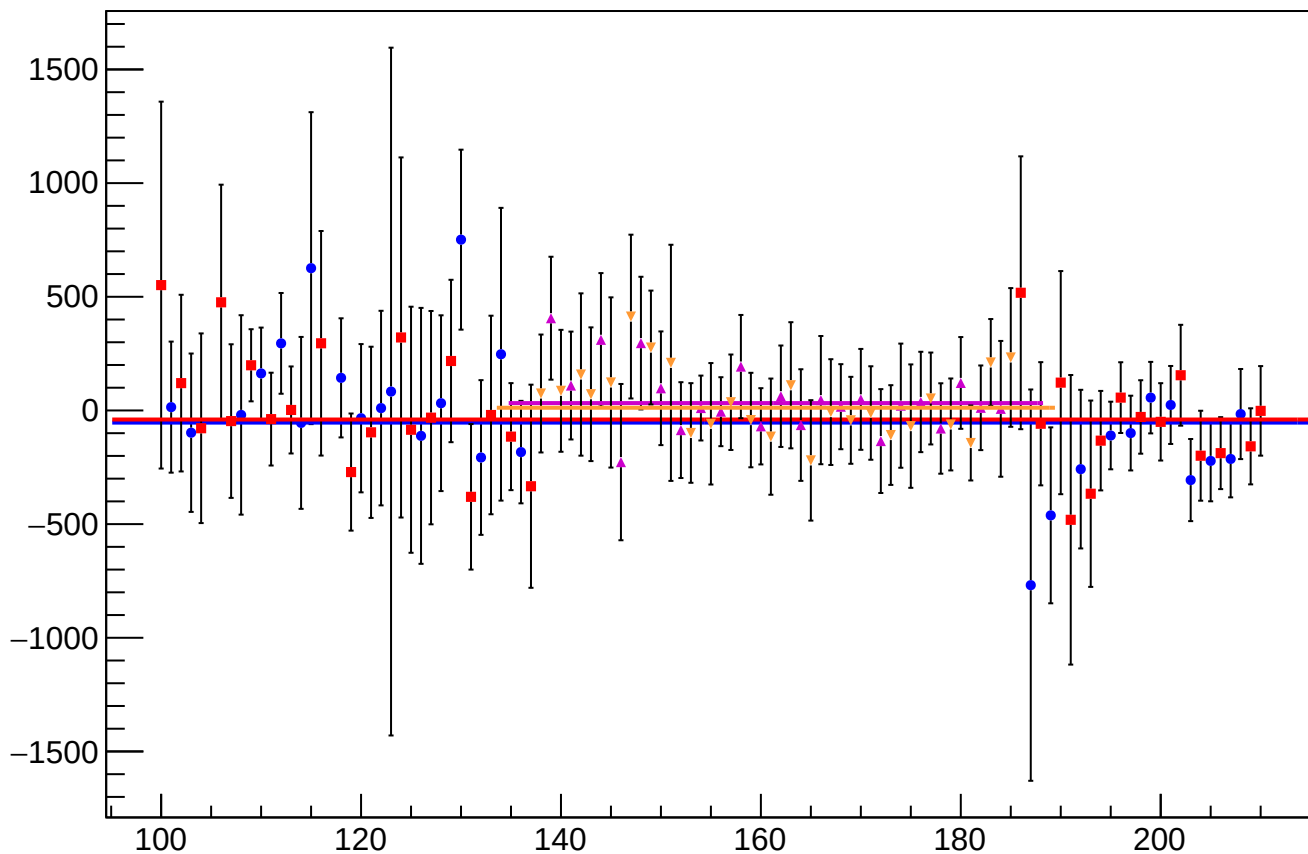
Right: 10.530 $\pm$ 0.001 χ^2 /NDF: 490450.0/60

In: 10.597 $\pm$ 0.001 χ^2 /NDF:348061.8/50

Out: 10.644 $\pm$ 0.001 χ^2 /NDF:431204.9/57

All: 10.621 $\pm$ 0.001 χ^2 /NDF: 779919.4/108

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -53.440 ± 47.033 $\chi^2/\text{NDF}: 17.1/27$

Left Out: 11.891 ± 48.022 $\chi^2/\text{NDF}: 7.6/24$

Right Out: -39.865 ± 44.262 $\chi^2/\text{NDF}: 13.2/32$

Left In: 32.413 ± 45.155 $\chi^2/\text{NDF}: 6.9/22$

Left: 22.783 ± 32.896 $\chi^2/\text{NDF}: 14.6/47$

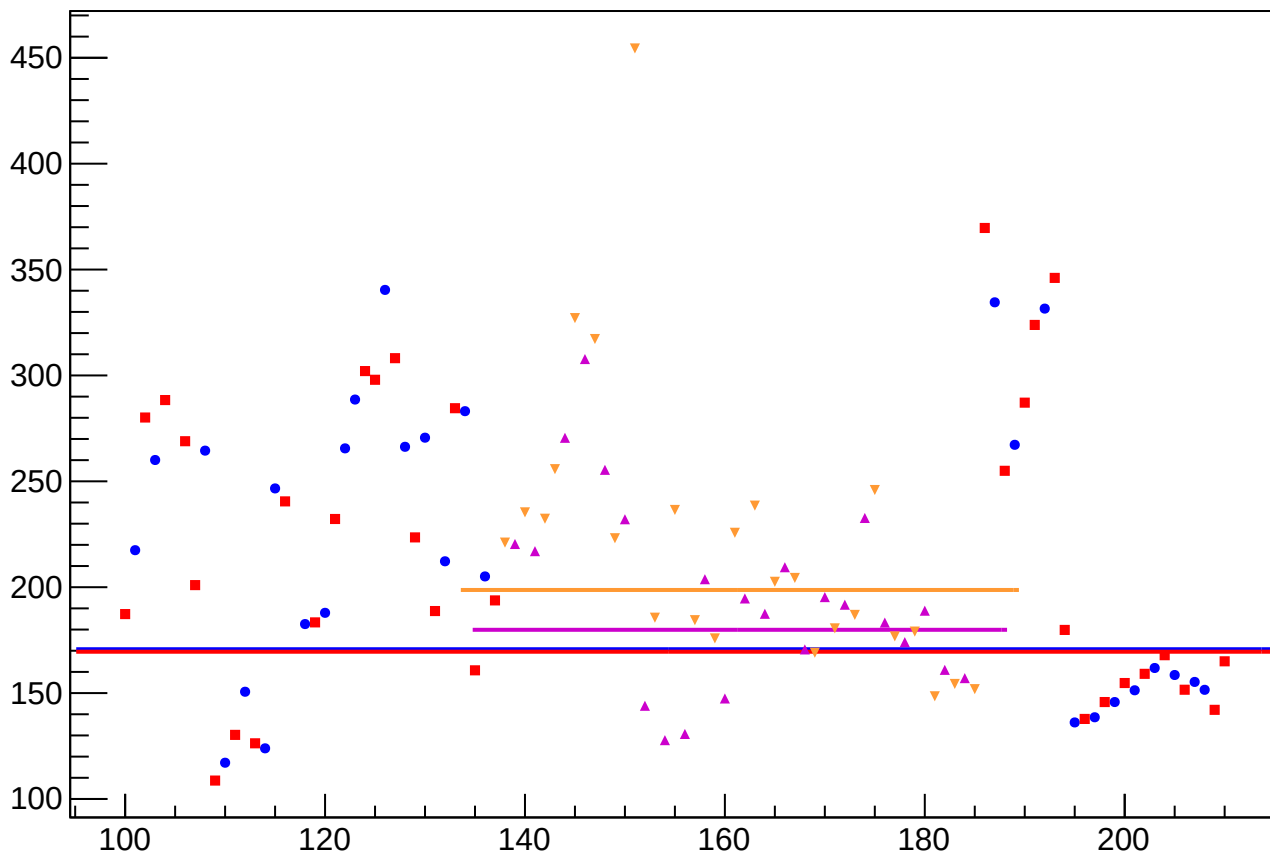
Right: -46.241 ± 32.233 $\chi^2/\text{NDF}: 30.3/60$

In: -8.765 ± 32.573 $\chi^2/\text{NDF}: 25.7/50$

Out: -16.093 ± 32.546 $\chi^2/\text{NDF}: 21.5/57$

All: -12.432 ± 23.023 $\chi^2/\text{NDF}: 47.2/108$

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 170.713 $\pm$ 0.033 χ^2 /NDF: 2109113.9/27

Left Out: 198.695 $\pm$ 0.034 χ^2 /NDF:1759311.9/24

Right Out: 169.534 $\pm$ 0.031 χ^2 /NDF: 2788436.8/32

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

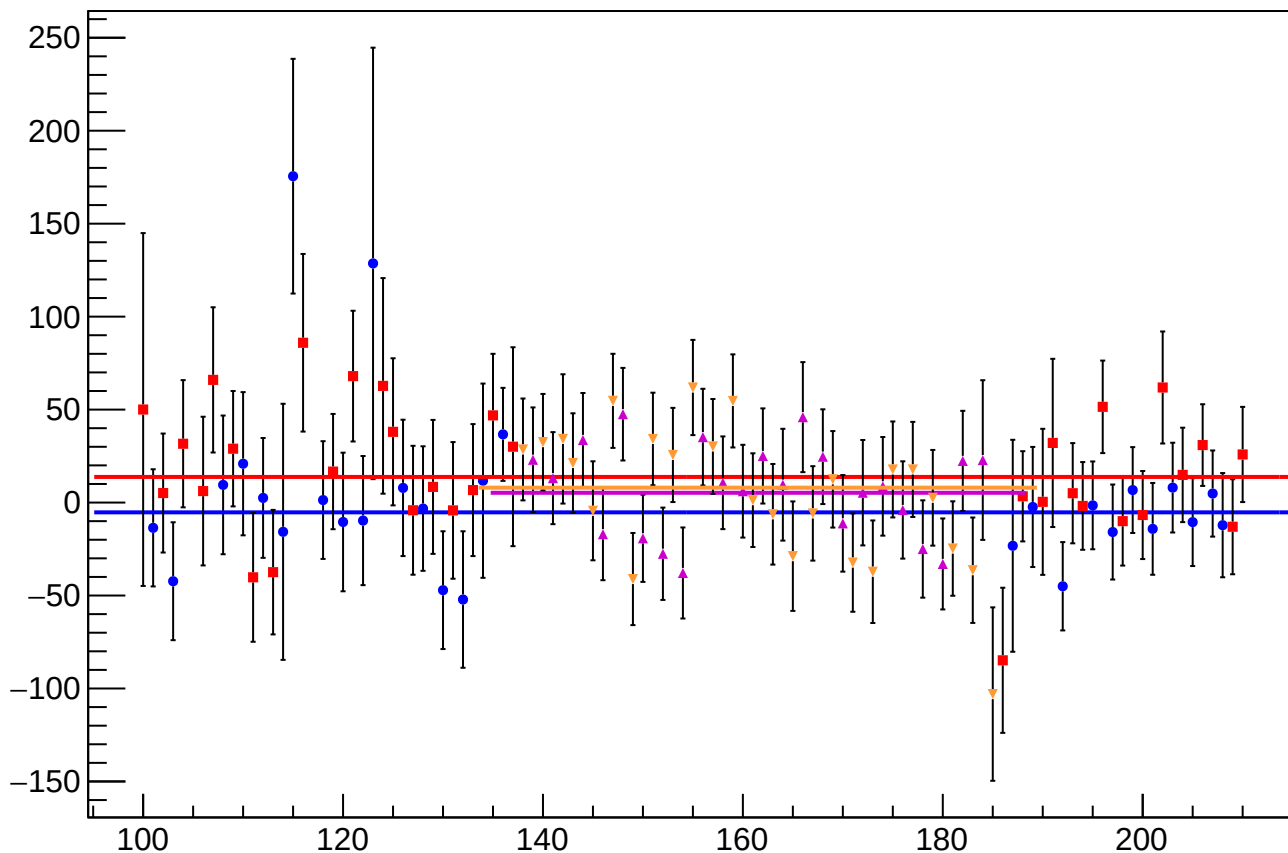
Right: 170.088 $\pm$ 0.023 χ^2 /NDF: 4898216.6/60

In: 175.486 $\pm$ 0.023 χ^2 /NDF:3729345.5/50

Out: 182.928 $\pm$ 0.023 χ^2 /NDF:4946487.7/57

All: 179.210 $\pm$ 0.016 χ^2 /NDF: 8728076.0/108

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -5.266 ± 5.842 χ^2/NDF : 22.3/27

Left Out: 8.004 ± 5.334 χ^2/NDF : 37.4/24

Right Out: 13.786 ± 5.488 χ^2/NDF : 30.6/32

Left In: 5.261 ± 5.465 χ^2/NDF : 20.8/22

Left: 6.665 ± 3.817 χ^2/NDF : 58.3/47

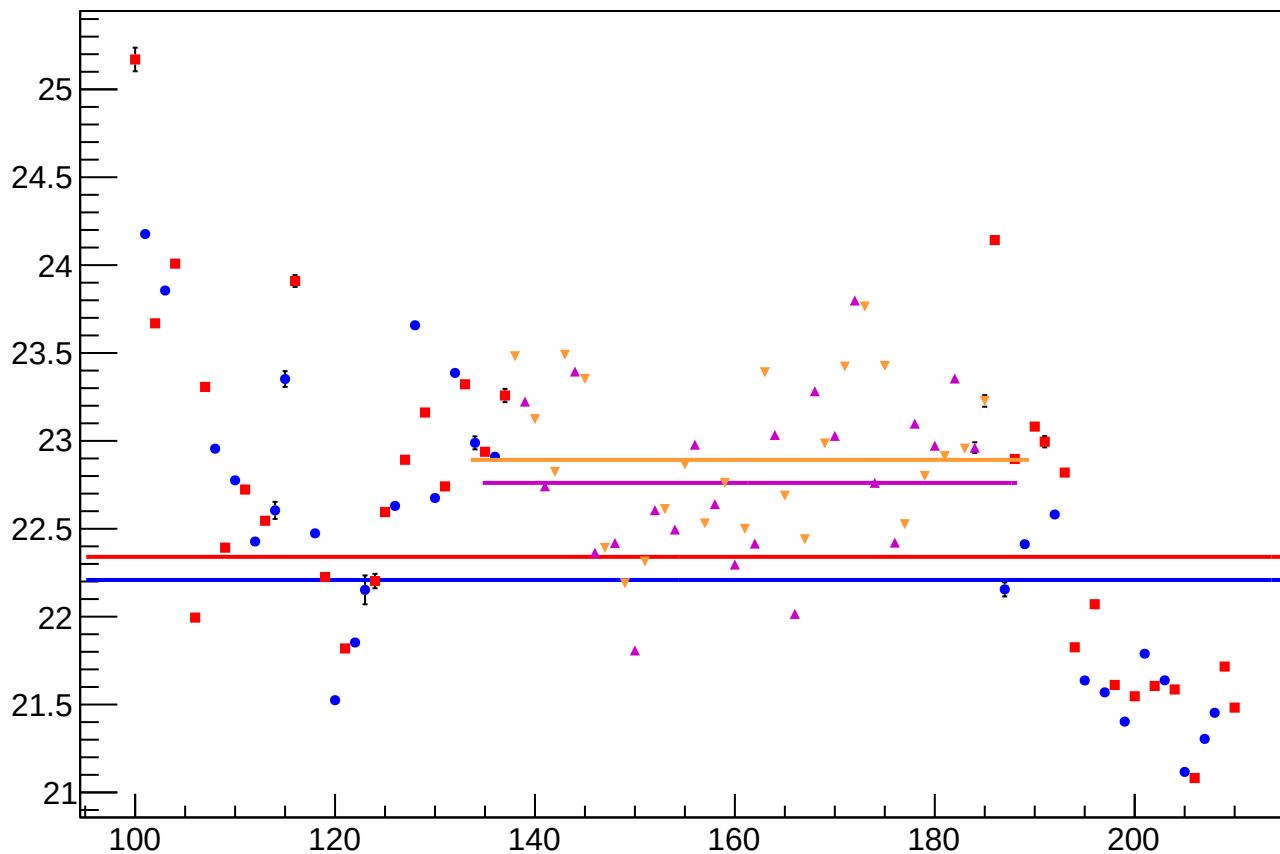
Right: 4.856 ± 4.000 χ^2/NDF : 58.6/60

In: 0.348 ± 3.991 χ^2/NDF : 44.8/50

Out: 10.813 ± 3.825 χ^2/NDF : 68.7/57

All: 5.803 ± 2.761 χ^2/NDF : 117.0/108

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.209+/-0.004 χ^2/NDF : 40692.3/27

Left Out: 22.892+/-0.004 χ^2/NDF : 12995.5/24

Right Out: 22.340+/-0.004 χ^2/NDF : 44287.7/32

Left In: 22.761+/-0.004 χ^2/NDF : 14550.0/22

Left: 22.828+/-0.003 χ^2/NDF : 28133.9/47

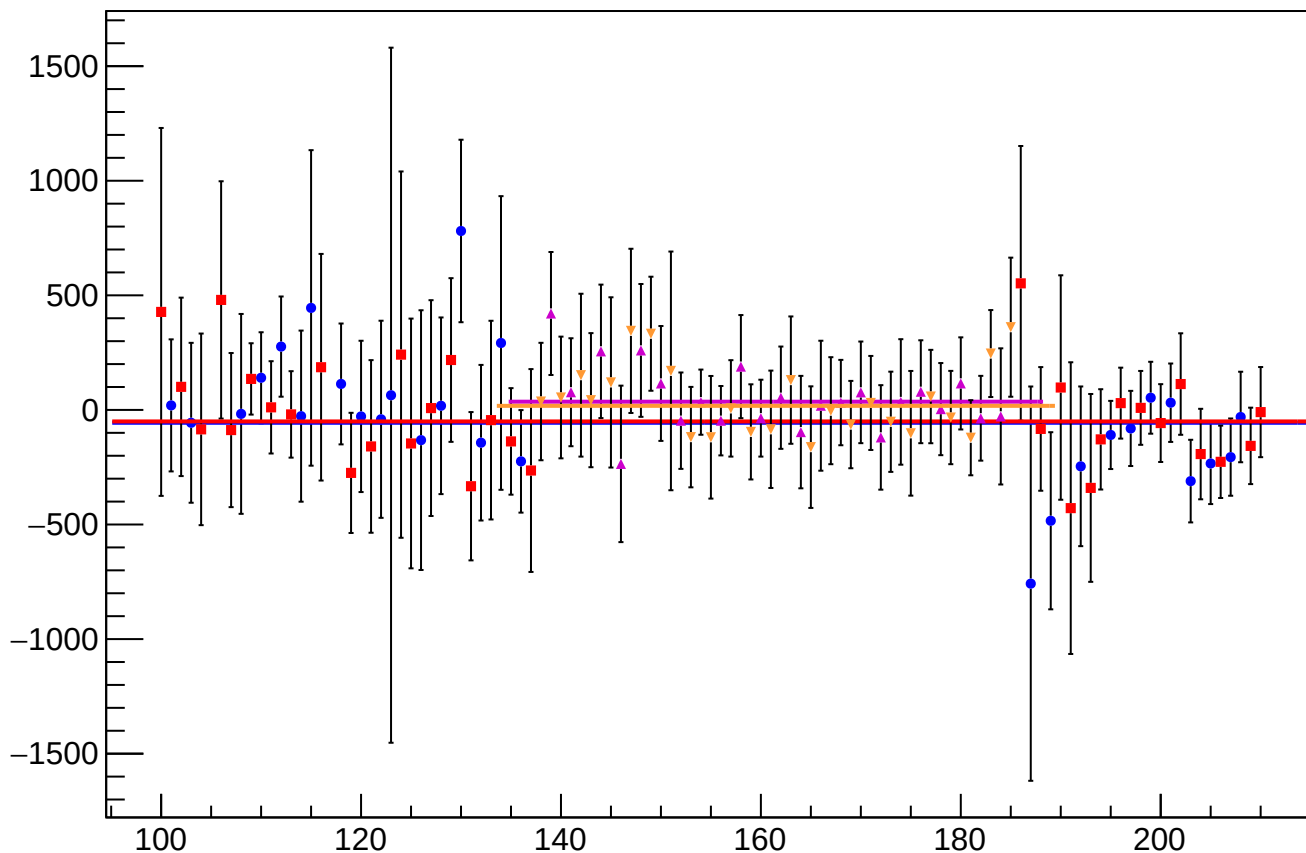
Right: 22.279+/-0.003 χ^2/NDF : 85518.9/60

In: 22.503+/-0.003 χ^2/NDF : 64774.1/50

Out: 22.624+/-0.003 χ^2/NDF : 67676.0/57

All: 22.566+/-0.002 χ^2/NDF : 133403.6/108

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -56.037 ± 46.897 $\chi^2/\text{NDF}: 16.6/27$

Left Out: 17.777 ± 47.941 $\chi^2/\text{NDF}: 8.5/24$

Right Out: -50.244 ± 44.070 $\chi^2/\text{NDF}: 11.3/32$

Left In: 35.879 ± 45.087 $\chi^2/\text{NDF}: 6.3/22$

Left: 27.383 ± 32.844 $\chi^2/\text{NDF}: 14.9/47$

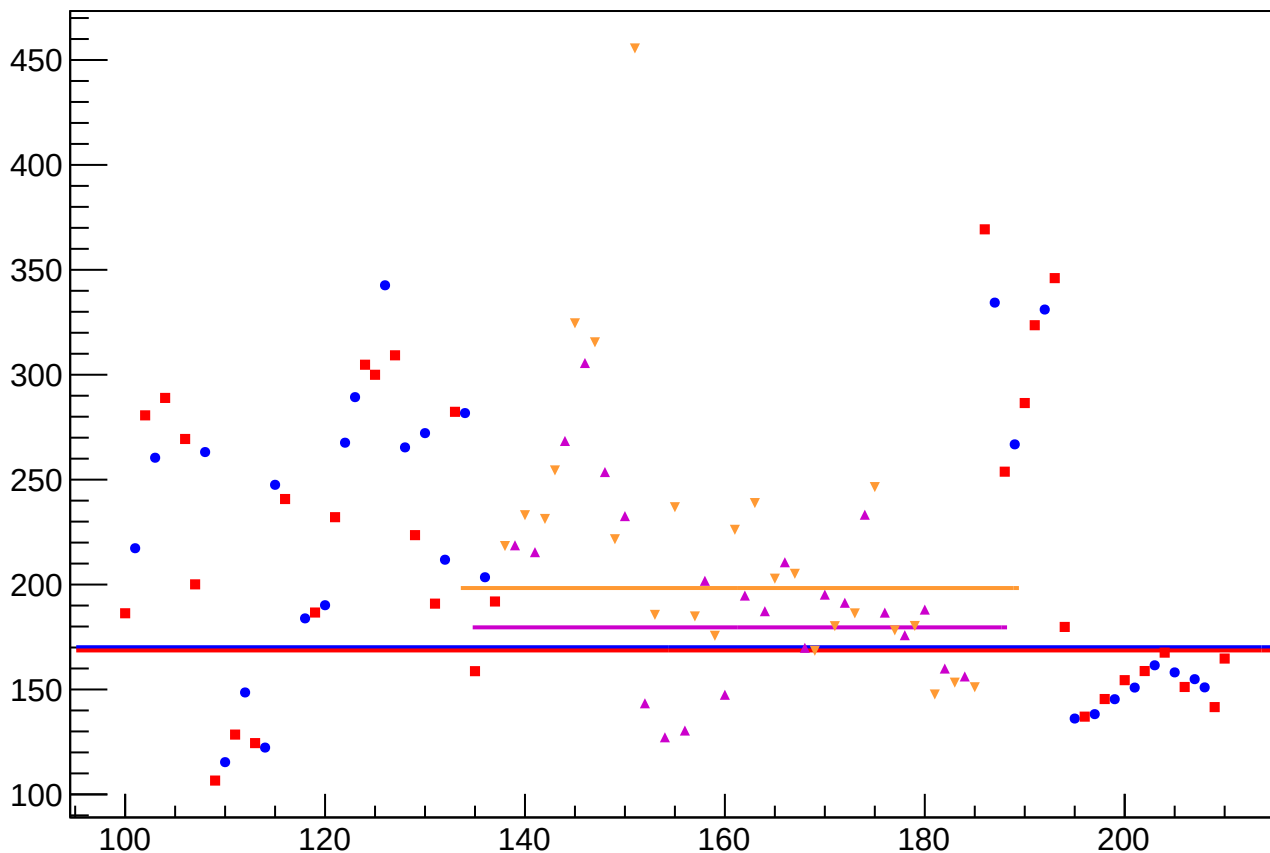
Right: -52.961 ± 32.115 $\chi^2/\text{NDF}: 27.9/60$

In: -8.272 ± 32.502 $\chi^2/\text{NDF}: 24.9/50$

Out: -19.090 ± 32.445 $\chi^2/\text{NDF}: 20.9/57$

All: -13.691 ± 22.962 $\chi^2/\text{NDF}: 45.9/108$

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 170.134+/-0.033 χ^2/NDF : 2139302.7/27

Left Out: 198.344+/-0.034 χ^2/NDF :1757450.6/24

Right Out: 168.601+/-0.031 χ^2/NDF : 2855887.7/32

Left In: 179.605+/-0.032 χ^2/NDF :1575744.0/22

Left: 188.400+/-0.023 χ^2/NDF : 3495336.8/47

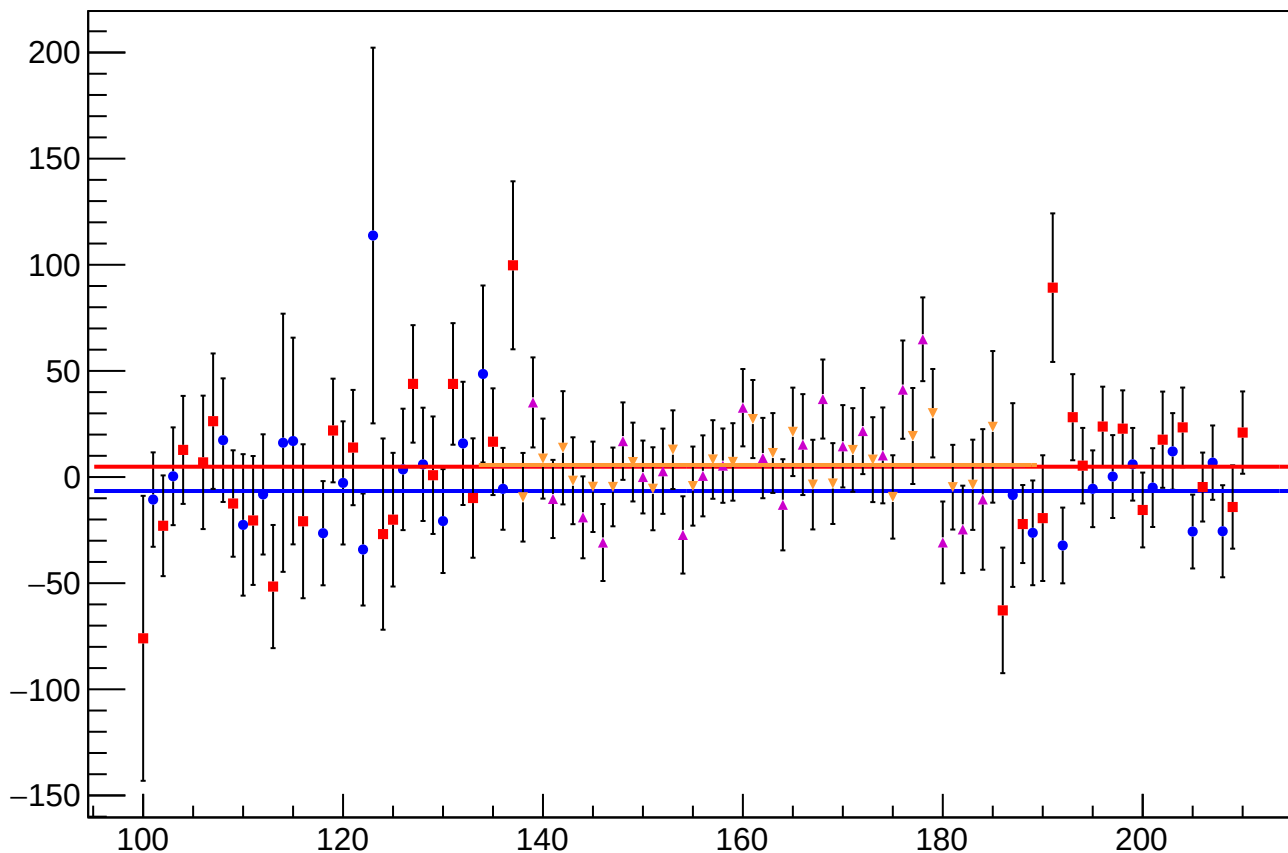
Right: 169.320+/-0.023 χ^2/NDF : 4996324.9/60

In: 175.056+/-0.023 χ^2/NDF :3757438.8/50

Out: 182.223+/-0.023 χ^2/NDF :5030561.9/57

All: 178.646+/-0.016 χ^2/NDF : 8836718.8/108

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -6.579 ± 4.465 χ^2/NDF : 15.1/27

Left Out: 5.680 ± 4.024 χ^2/NDF : 7.7/24

Right Out: 4.867 ± 4.203 χ^2/NDF : 42.5/32

Left In: 5.595 ± 4.121 χ^2/NDF : 36.4/22

Left: 5.639 ± 2.879 χ^2/NDF : 44.1/47

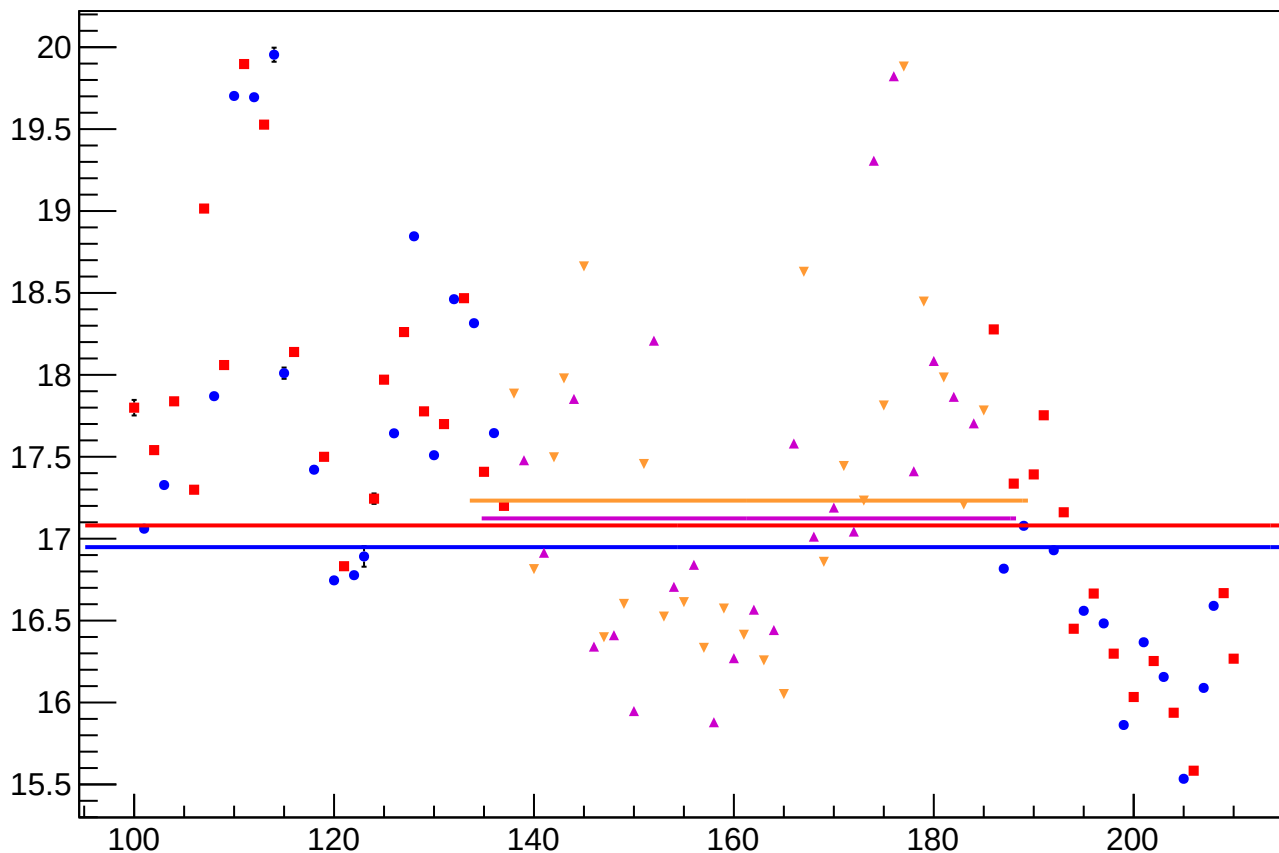
Right: -0.510 ± 3.060 χ^2/NDF : 61.0/60

In: -0.006 ± 3.028 χ^2/NDF : 55.5/50

Out: 5.291 ± 2.906 χ^2/NDF : 50.2/57

All: 2.752 ± 2.097 χ^2/NDF : 107.3/108

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 16.948 $\pm$ 0.003 χ^2 /NDF: 98938.9/27

Left Out: 17.232 $\pm$ 0.003 χ^2 /NDF:98701.0/24

Right Out: 17.081 $\pm$ 0.003 χ^2 /NDF: 110275.1/32

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

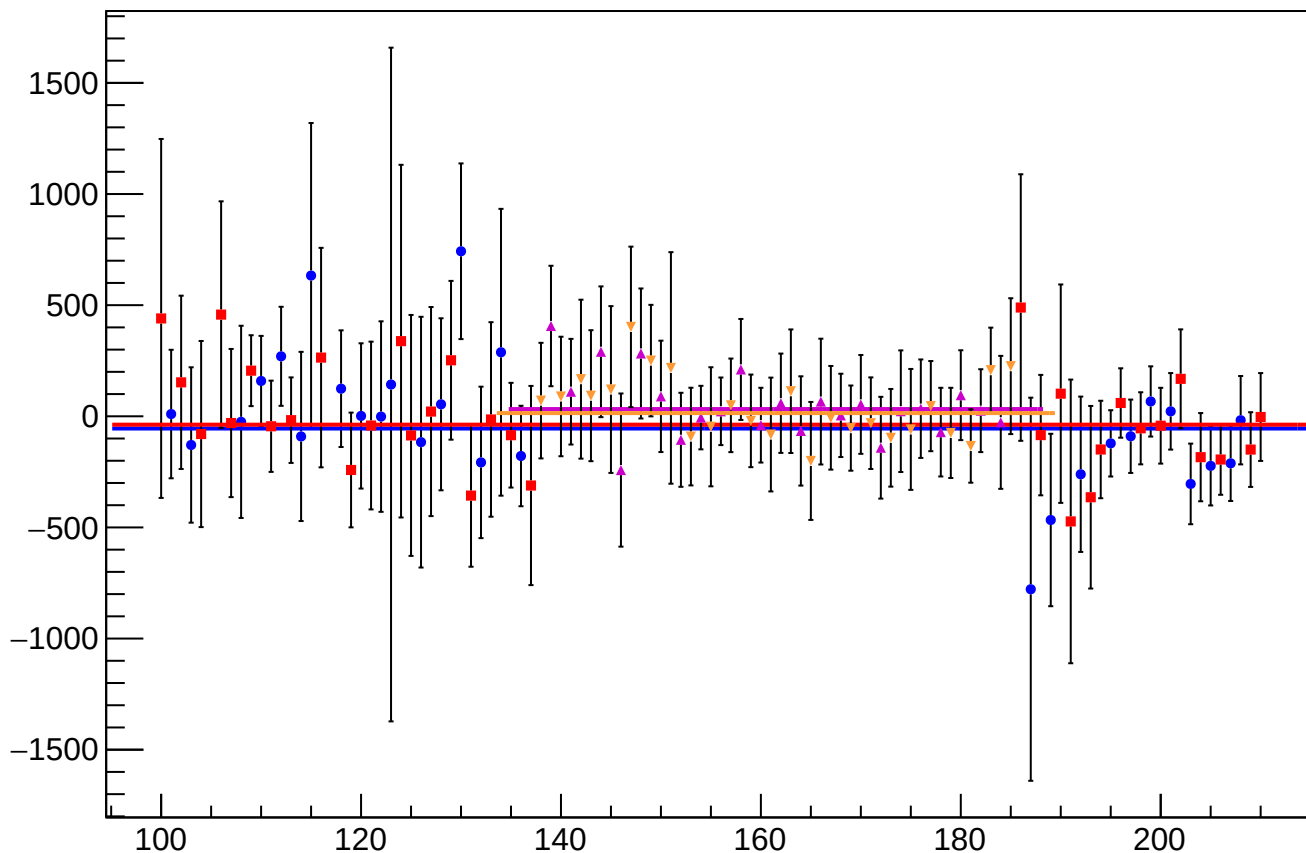
Right: 17.019 $\pm$ 0.002 χ^2 /NDF: 210146.8/60

In: 17.043 $\pm$ 0.002 χ^2 /NDF:201351.4/50

Out: 17.160 $\pm$ 0.002 χ^2 /NDF:210334.7/57

All: 17.104 $\pm$ 0.001 χ^2 /NDF: 413236.7/108

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -55.044 ± 47.174 χ^2/NDF : 16.7/27

Left Out: 14.362 ± 48.130 χ^2/NDF : 6.9/24

Right Out: -37.698 ± 44.379 χ^2/NDF : 12.7/32

Left In: 32.571 ± 45.248 χ^2/NDF : 6.7/22

Left: 24.028 ± 32.967 χ^2/NDF : 13.7/47

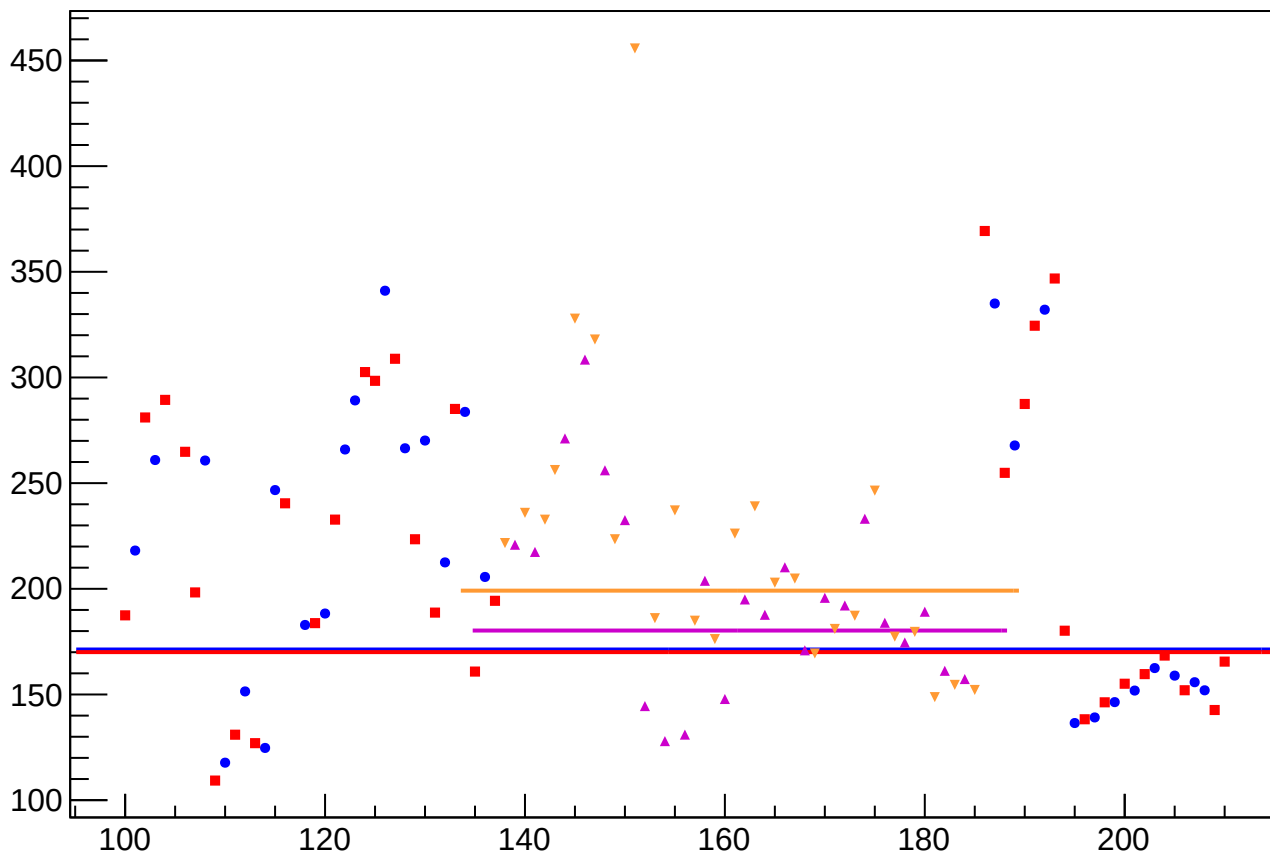
Right: -45.842 ± 32.323 χ^2/NDF : 29.5/60

In: -9.412 ± 32.654 χ^2/NDF : 25.2/50

Out: -13.775 ± 32.626 χ^2/NDF : 20.3/57

All: -11.595 ± 23.080 χ^2/NDF : 45.5/108

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 171.281+/-0.033 χ^2/NDF : 2091240.5/27

Left Out: 199.136+/-0.034 χ^2/NDF : 1760298.1/24

Right Out: 170.049+/-0.031 χ^2/NDF : 2763833.4/32

Left In: 180.256+/-0.032 χ^2/NDF : 1580553.5/22

Left: 189.114+/-0.023 χ^2/NDF : 3504211.1/47

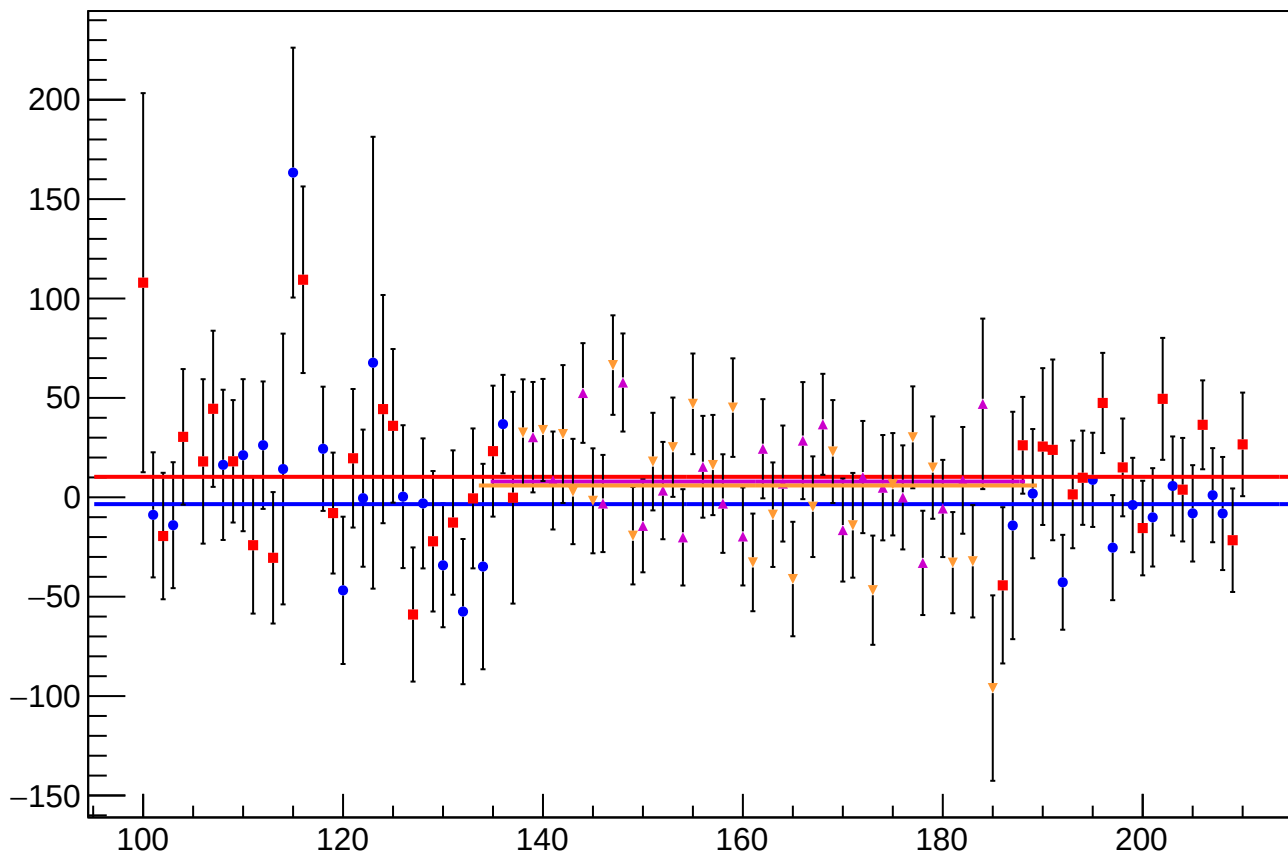
Right: 170.628+/-0.023 χ^2/NDF : 4855796.9/60

In: 175.956+/-0.023 χ^2/NDF : 3709502.9/50

Out: 183.415+/-0.023 χ^2/NDF : 4918921.2/57

All: 179.689+/-0.016 χ^2/NDF : 8680654.3/108

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -3.439 ± 5.876 χ^2/NDF : 21.6/27

Left Out: 5.937 ± 5.285 χ^2/NDF : 36.1/24

Right Out: 10.300 ± 5.510 χ^2/NDF : 28.1/32

Left In: 7.915 ± 5.422 χ^2/NDF : 18.7/22

Left: 6.901 ± 3.784 χ^2/NDF : 54.9/47

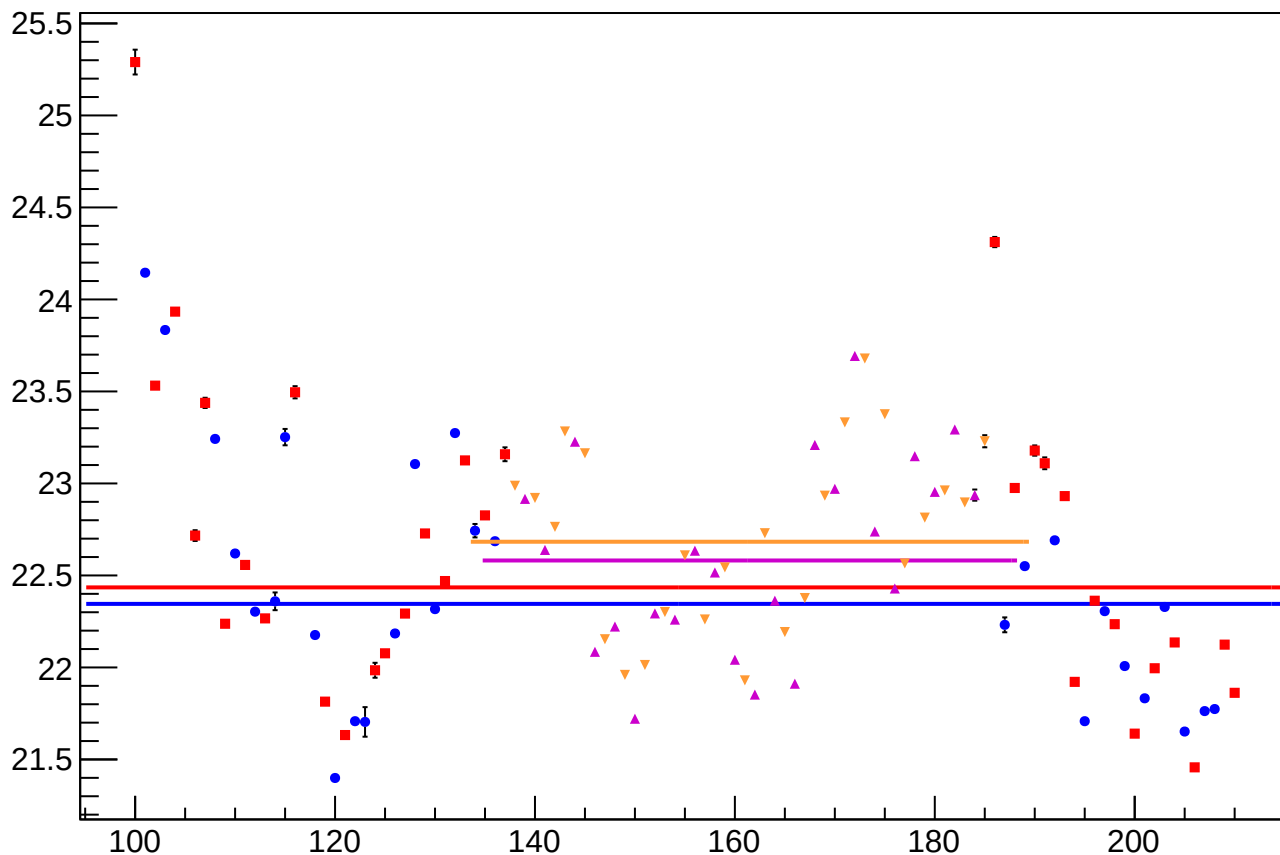
Right: 3.873 ± 4.019 χ^2/NDF : 52.6/60

In: 2.695 ± 3.985 χ^2/NDF : 42.3/50

Out: 8.028 ± 3.814 χ^2/NDF : 64.6/57

All: 5.478 ± 2.755 χ^2/NDF : 107.8/108

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.345+/-0.004 χ^2/NDF : 24509.5/27

Left Out: 22.683+/-0.004 χ^2/NDF :16320.2/24

Right Out: 22.435+/-0.004 χ^2/NDF : 30834.8/32

Left In: 22.581+/-0.004 χ^2/NDF :17904.5/22

Left: 22.634+/-0.003 χ^2/NDF : 34586.9/47

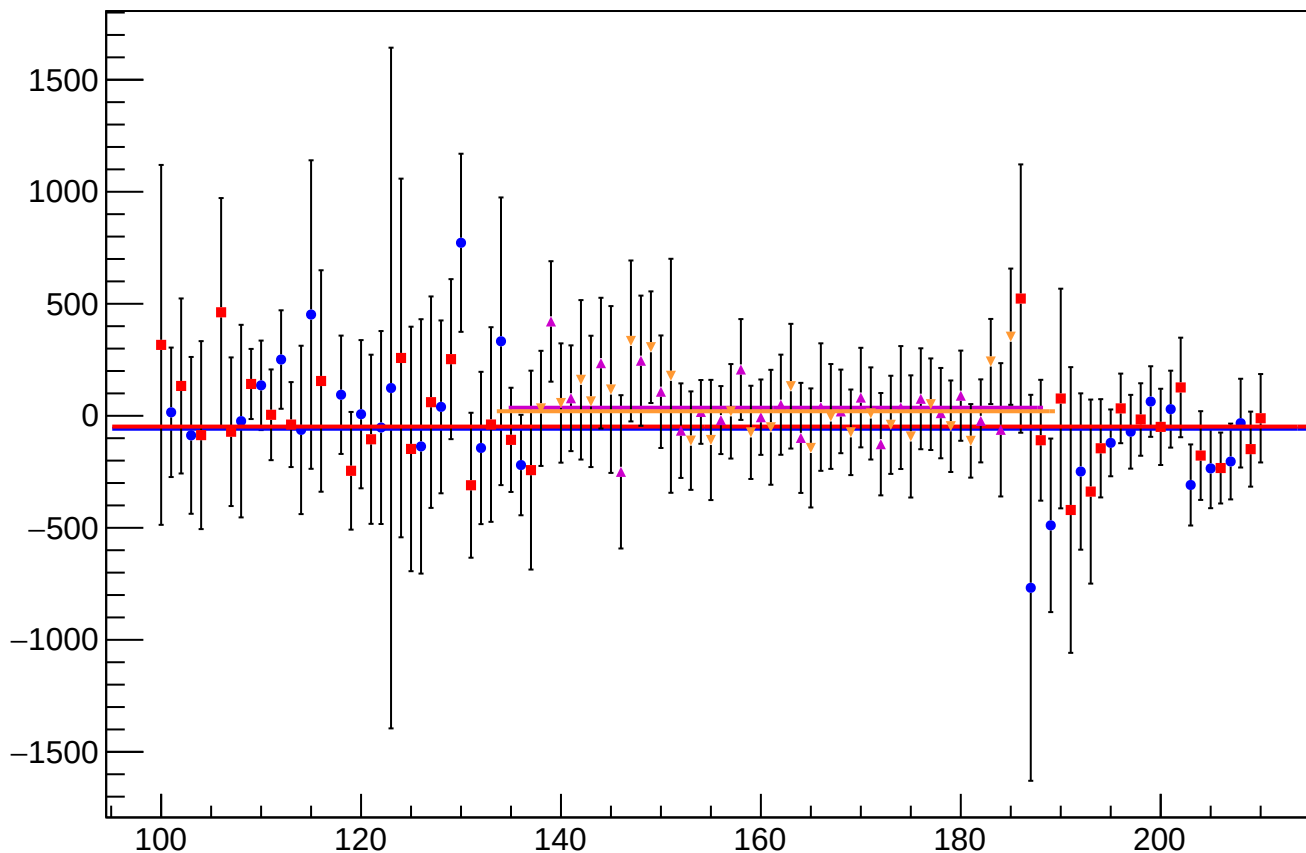
Right: 22.393+/-0.003 χ^2/NDF : 55591.8/60

In: 22.473+/-0.003 χ^2/NDF :44154.7/50

Out: 22.564+/-0.003 χ^2/NDF :49268.0/57

All: 22.521+/-0.002 χ^2/NDF : 93972.2/108

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -57.724 ± 47.039 $\chi^2/\text{NDF}: 16.3/27$

Left Out: 20.306 ± 48.049 $\chi^2/\text{NDF}: 7.7/24$

Right Out: -48.121 ± 44.188 $\chi^2/\text{NDF}: 10.8/32$

Left In: 35.996 ± 45.180 $\chi^2/\text{NDF}: 6.1/22$

Left: 28.633 ± 32.915 $\chi^2/\text{NDF}: 13.8/47$

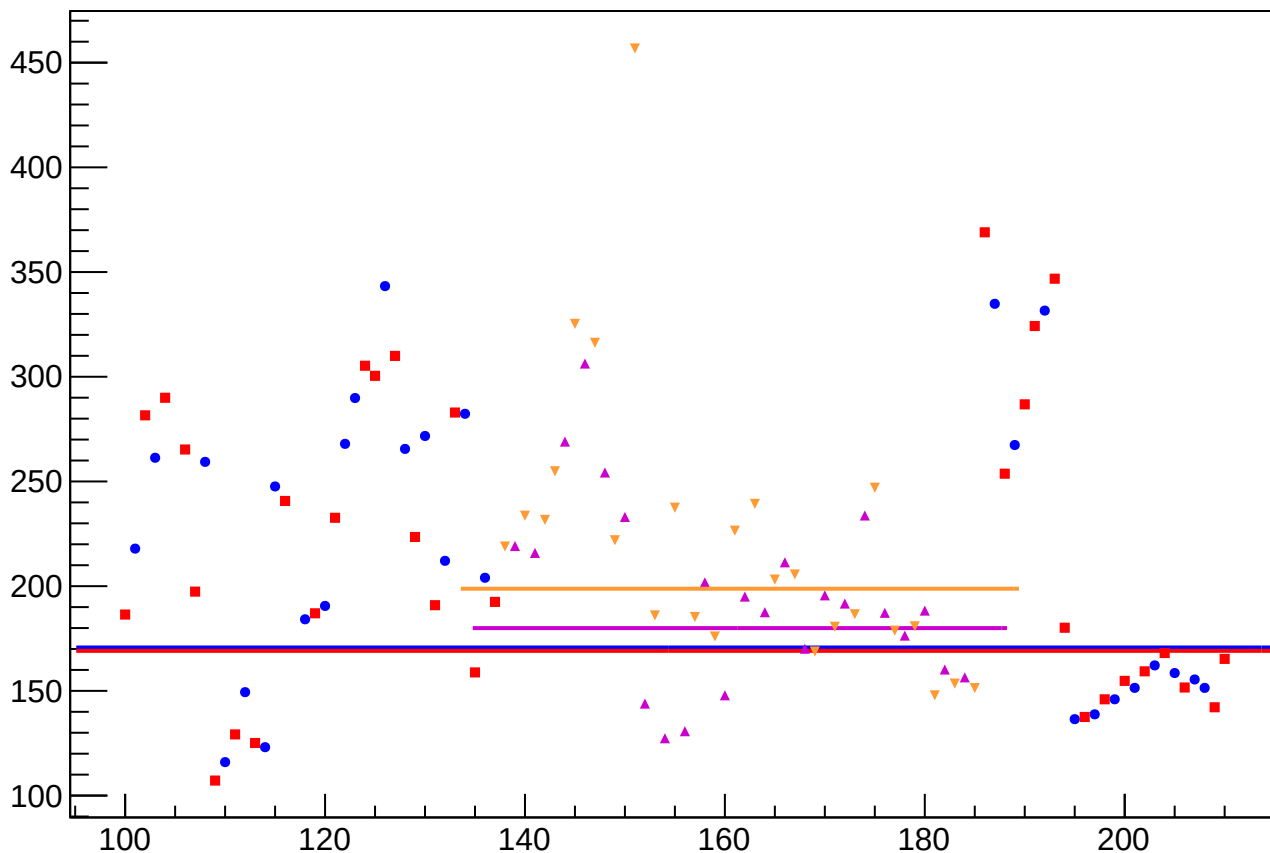
Right: -52.622 ± 32.206 $\chi^2/\text{NDF}: 27.1/60$

In: -8.976 ± 32.584 $\chi^2/\text{NDF}: 24.4/50$

Out: -16.766 ± 32.525 $\chi^2/\text{NDF}: 19.6/57$

All: -12.878 ± 23.020 $\chi^2/\text{NDF}: 44.0/108$

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 170.708 $\pm$ 0.033 χ^2 /NDF: 2120846.8/27

Left Out: 198.784 $\pm$ 0.034 χ^2 /NDF:1758481.8/24

Right Out: 169.123 $\pm$ 0.031 χ^2 /NDF: 2830396.2/32

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

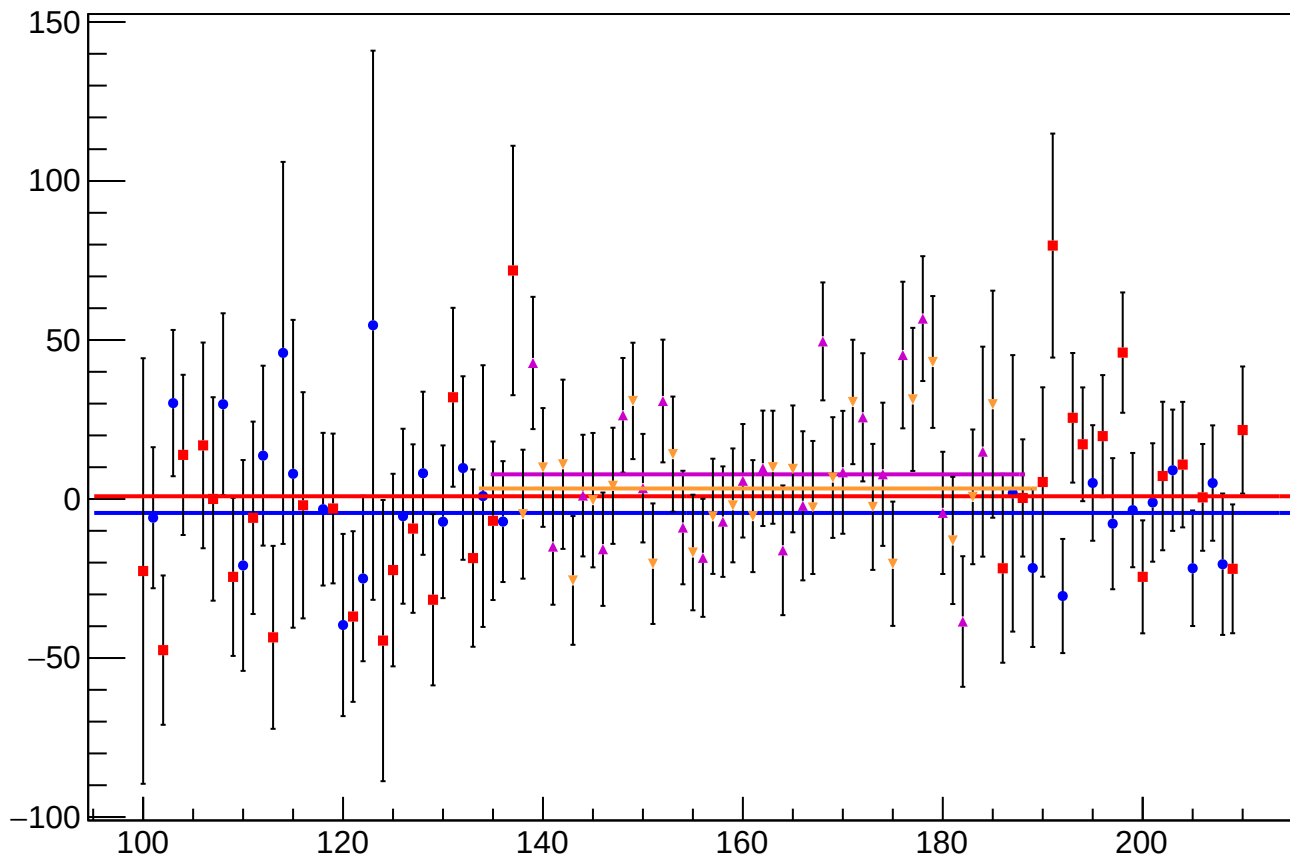
Right: 169.866 $\pm$ 0.023 χ^2 /NDF: 4952448.7/60

In: 175.527 $\pm$ 0.023 χ^2 /NDF:3737091.7/50

Out: 182.714 $\pm$ 0.023 χ^2 /NDF:5001802.6/57

All: 179.127 $\pm$ 0.016 χ^2 /NDF: 8787641.4/108

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -4.382 ± 4.509 $\chi^2/\text{NDF}: 13.4/27$

Left Out: 3.307 ± 3.954 $\chi^2/\text{NDF}: 18.7/24$

Right Out: 0.864 ± 4.234 $\chi^2/\text{NDF}: 38.0/32$

Left In: 7.756 ± 4.061 $\chi^2/\text{NDF}: 34.3/22$

Left: 5.472 ± 2.833 $\chi^2/\text{NDF}: 53.6/47$

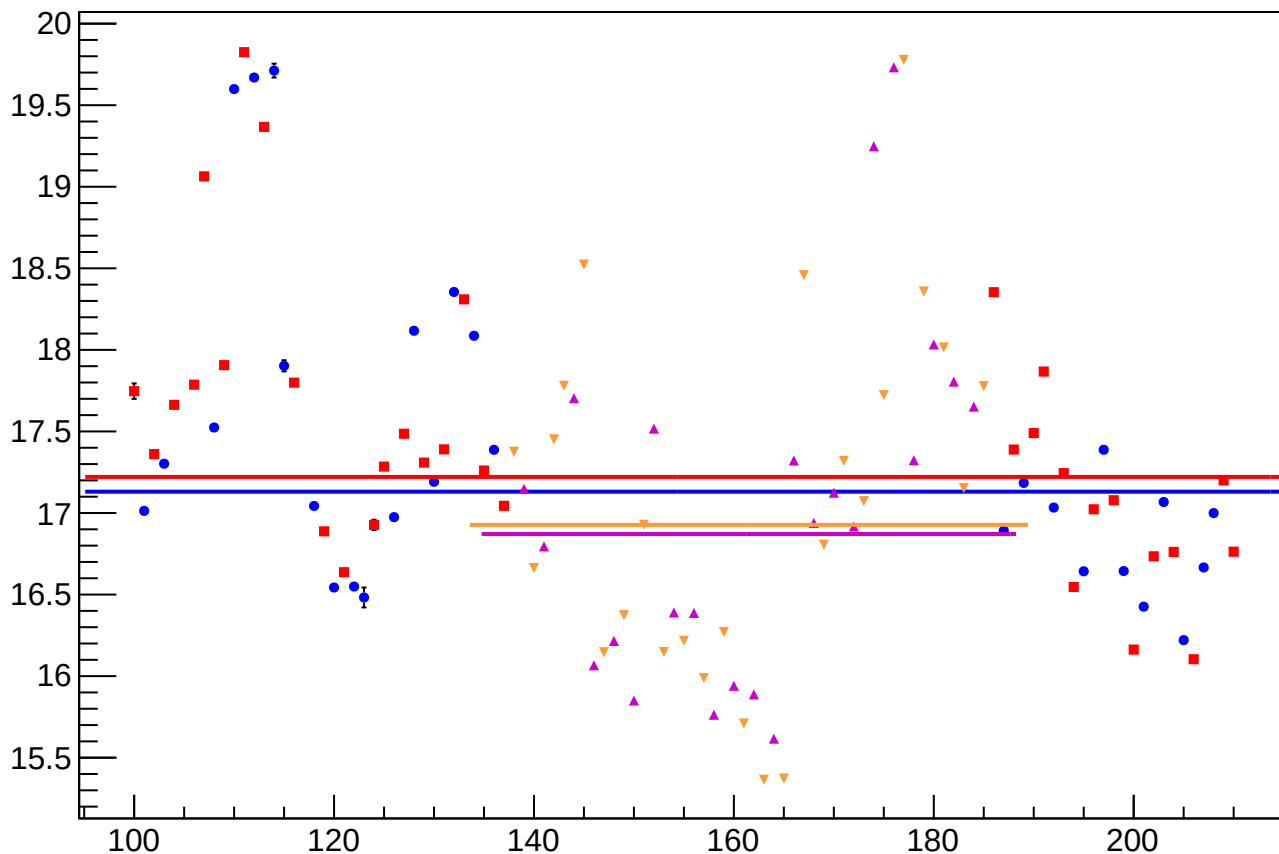
Right: -1.595 ± 3.087 $\chi^2/\text{NDF}: 52.1/60$

In: 2.321 ± 3.018 $\chi^2/\text{NDF}: 51.7/50$

Out: 2.169 ± 2.890 $\chi^2/\text{NDF}: 56.9/57$

All: 2.242 ± 2.087 $\chi^2/\text{NDF}: 108.6/108$

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 17.131 $\pm$ 0.003 χ^2/NDF : 54646.5/27

Left Out: 16.927 $\pm$ 0.003 χ^2/NDF :138533.2/24

Right Out: 17.221 $\pm$ 0.003 χ^2/NDF : 66945.8/32

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

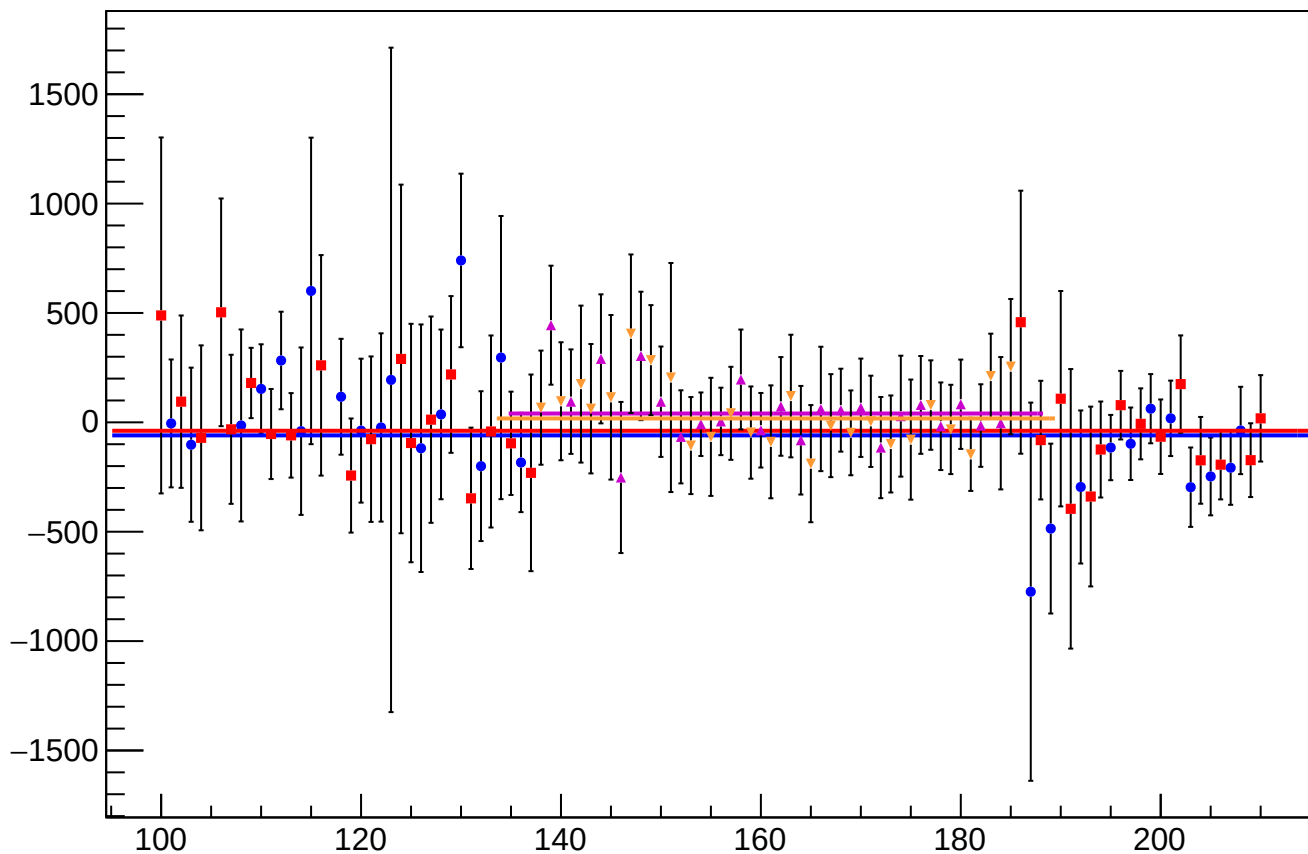
Right: 17.179 $\pm$ 0.002 χ^2/NDF : 122020.3/60

In: 16.987 $\pm$ 0.002 χ^2/NDF :176297.5/50

Out: 17.064 $\pm$ 0.002 χ^2/NDF :210629.4/57

All: 17.028 $\pm$ 0.001 χ^2/NDF : 387601.6/108

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -59.606 ± 47.309 χ^2/NDF : 16.7/27

Left Out: 17.828 ± 48.547 χ^2/NDF : 7.5/24

Right Out: -38.469 ± 44.526 χ^2/NDF : 11.8/32

Left In: 40.355 ± 45.689 χ^2/NDF : 6.6/22

Left: 29.774 ± 33.271 χ^2/NDF : 14.2/47

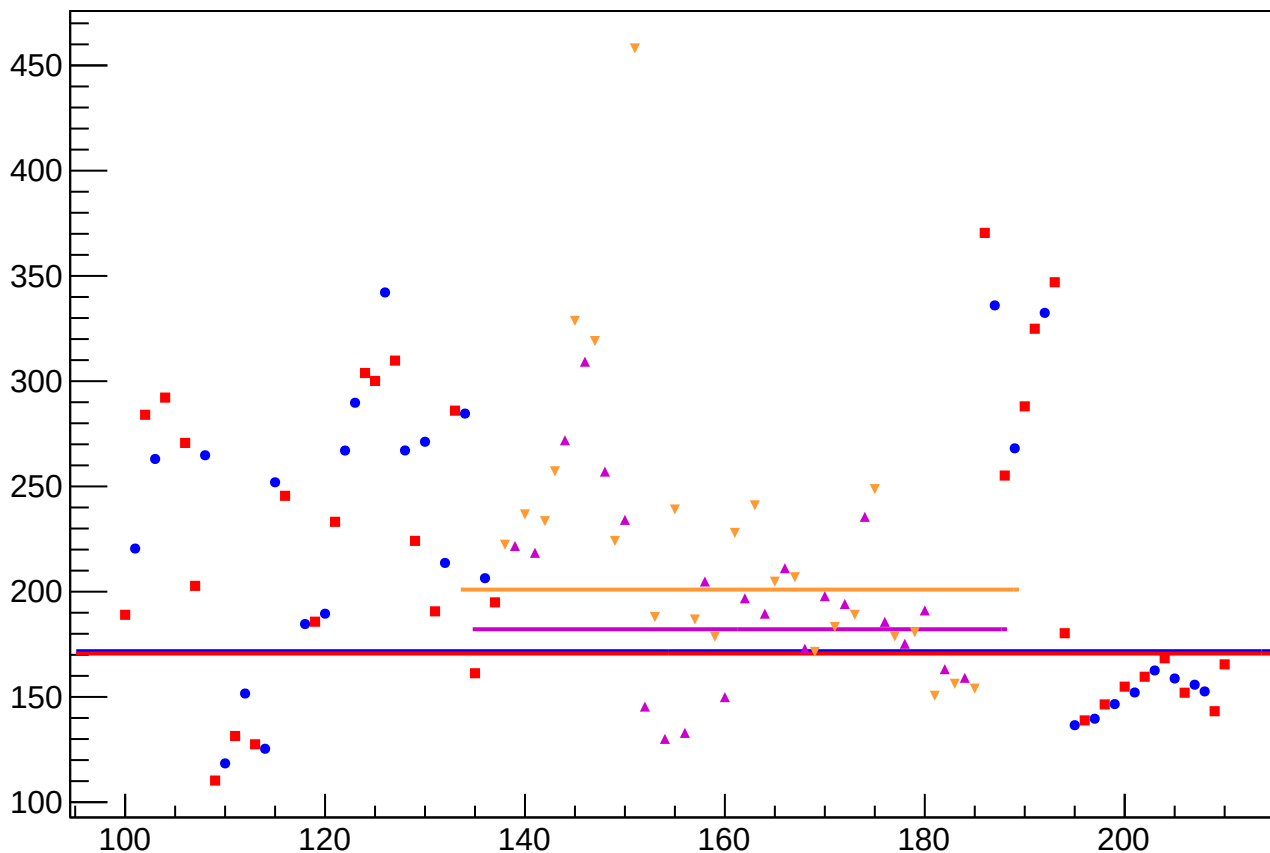
Right: -48.398 ± 32.424 χ^2/NDF : 28.6/60

In: -7.885 ± 32.865 χ^2/NDF : 25.7/50

Out: -12.748 ± 32.814 χ^2/NDF : 20.0/57

All: -10.320 ± 23.221 χ^2/NDF : 45.7/108

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 171.733 $\pm$ 0.033 χ^2/NDF : 2106905.0/27

Left Out: 200.985 $\pm$ 0.034 χ^2/NDF : 1727291.4/24

Right Out: 170.613 $\pm$ 0.031 χ^2/NDF : 2774612.7/32

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

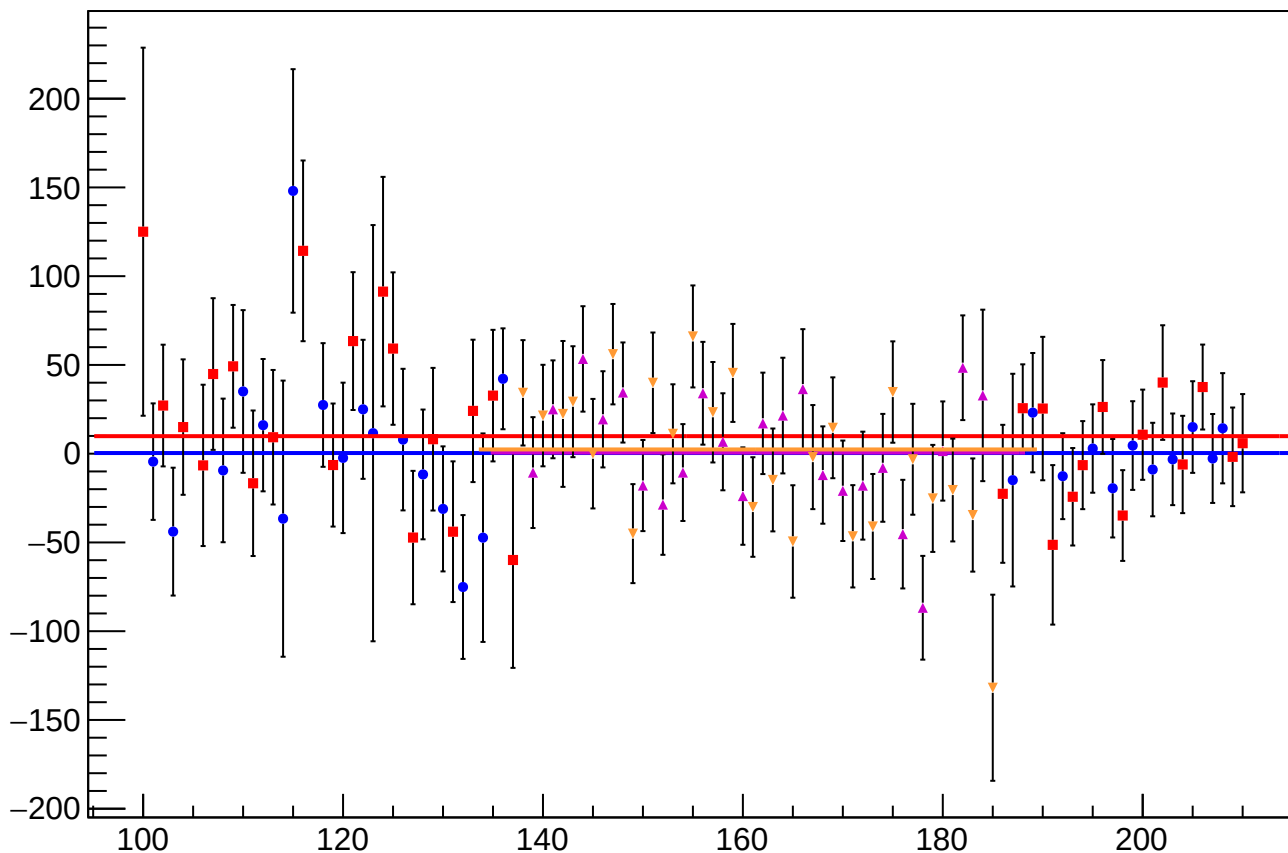
Right: 171.139 $\pm$ 0.023 χ^2/NDF : 4882111.8/60

In: 177.127 $\pm$ 0.023 χ^2/NDF : 3693081.9/50

Out: 184.489 $\pm$ 0.023 χ^2/NDF : 4927064.6/57

All: 180.814 $\pm$ 0.016 χ^2/NDF : 8670408.4/108

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 0.369 ± 6.353 $\chi^2/\text{NDF}: 17.5/27$

Left Out: 2.390 ± 5.980 $\chi^2/\text{NDF}: 39.1/24$

Right Out: 9.873 ± 5.919 $\chi^2/\text{NDF}: 30.5/32$

Left In: 0.641 ± 6.091 $\chi^2/\text{NDF}: 27.3/22$

Left: 1.531 ± 4.267 $\chi^2/\text{NDF}: 66.5/47$

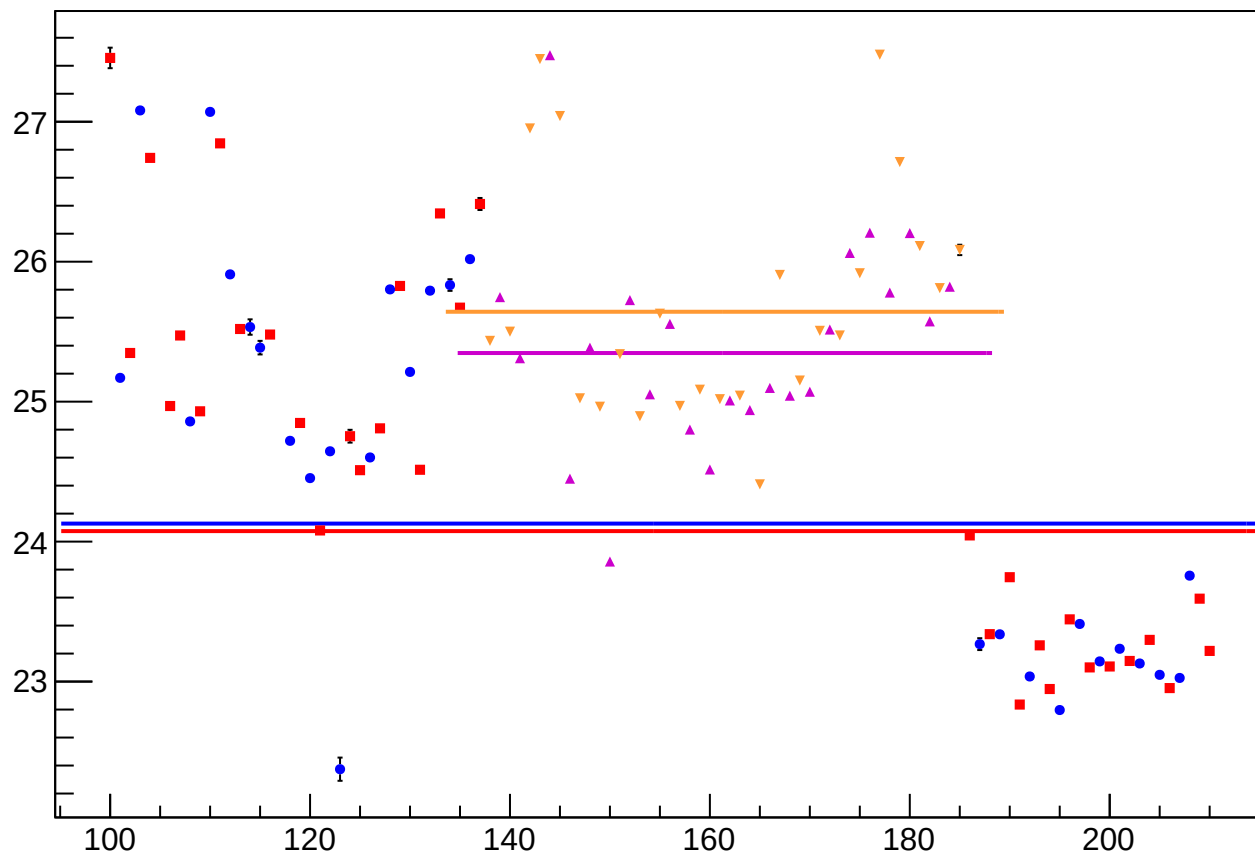
Right: 5.458 ± 4.331 $\chi^2/\text{NDF}: 49.2/60$

In: 0.511 ± 4.397 $\chi^2/\text{NDF}: 44.8/50$

Out: 6.170 ± 4.207 $\chi^2/\text{NDF}: 70.4/57$

All: 3.466 ± 3.040 $\chi^2/\text{NDF}: 116.1/108$

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 24.129 $\pm$ 0.004 χ^2 /NDF: 80732.9/27

Left Out: 25.642 $\pm$ 0.004 χ^2 /NDF:34802.2/24

Right Out: 24.075 $\pm$ 0.004 χ^2 /NDF: 78106.7/32

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

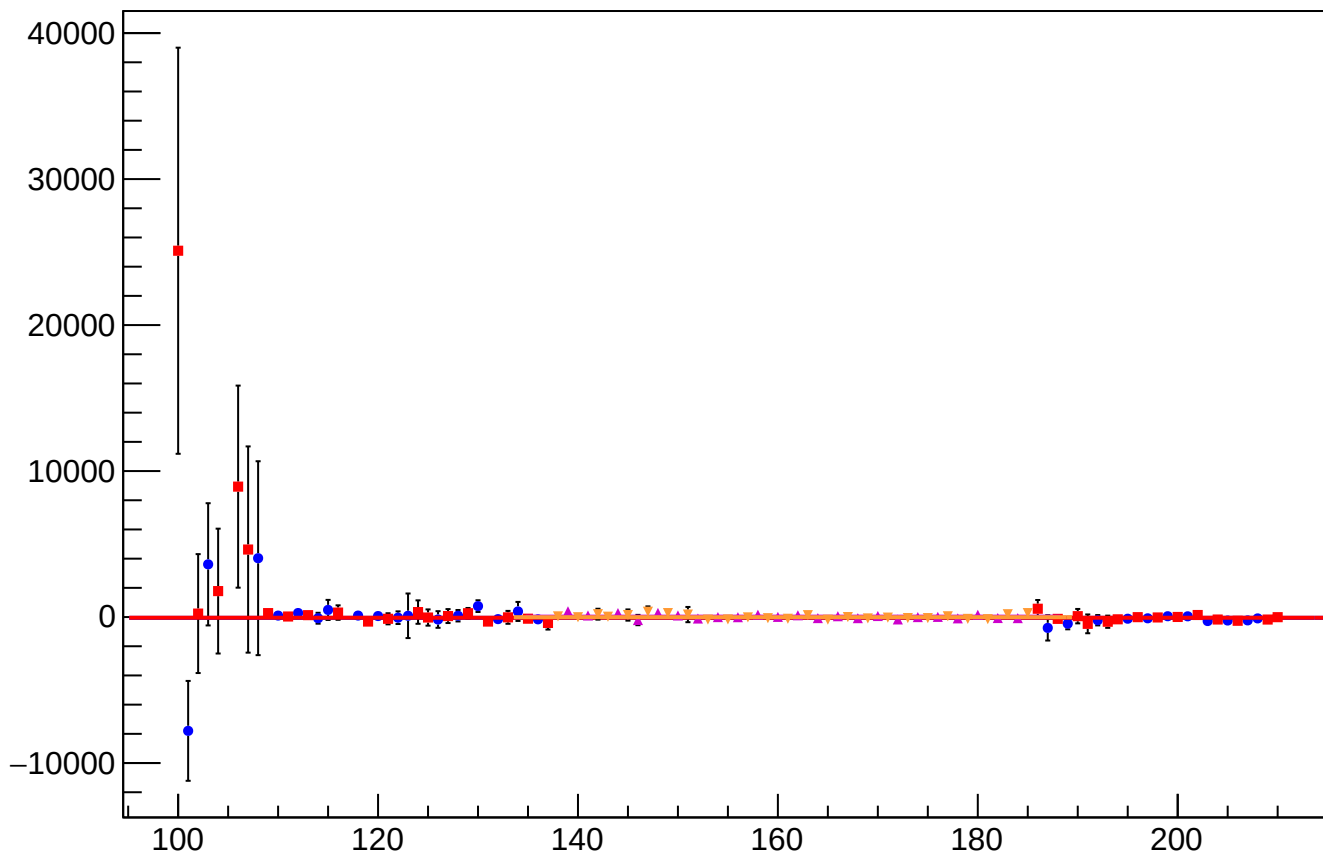
Right: 24.100 $\pm$ 0.003 χ^2 /NDF: 158916.0/60

In: 24.764 $\pm$ 0.003 χ^2 /NDF:148465.5/50

Out: 24.851 $\pm$ 0.003 χ^2 /NDF:182308.3/57

All: 24.809 $\pm$ 0.002 χ^2 /NDF: 331181.1/108

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -56.215 $\pm$ 49.609 χ^2 /NDF: 21.4/27

Left Out: -11.432 $\pm$ 48.263 χ^2 /NDF:8.0/24

Right Out: -46.811 $\pm$ 47.287 χ^2 /NDF: 18.3/32

Left In: 27.098 $\pm$ 45.999 χ^2 /NDF:7.2/22

Left: 8.758 $\pm$ 33.298 χ^2 /NDF: 15.5/47

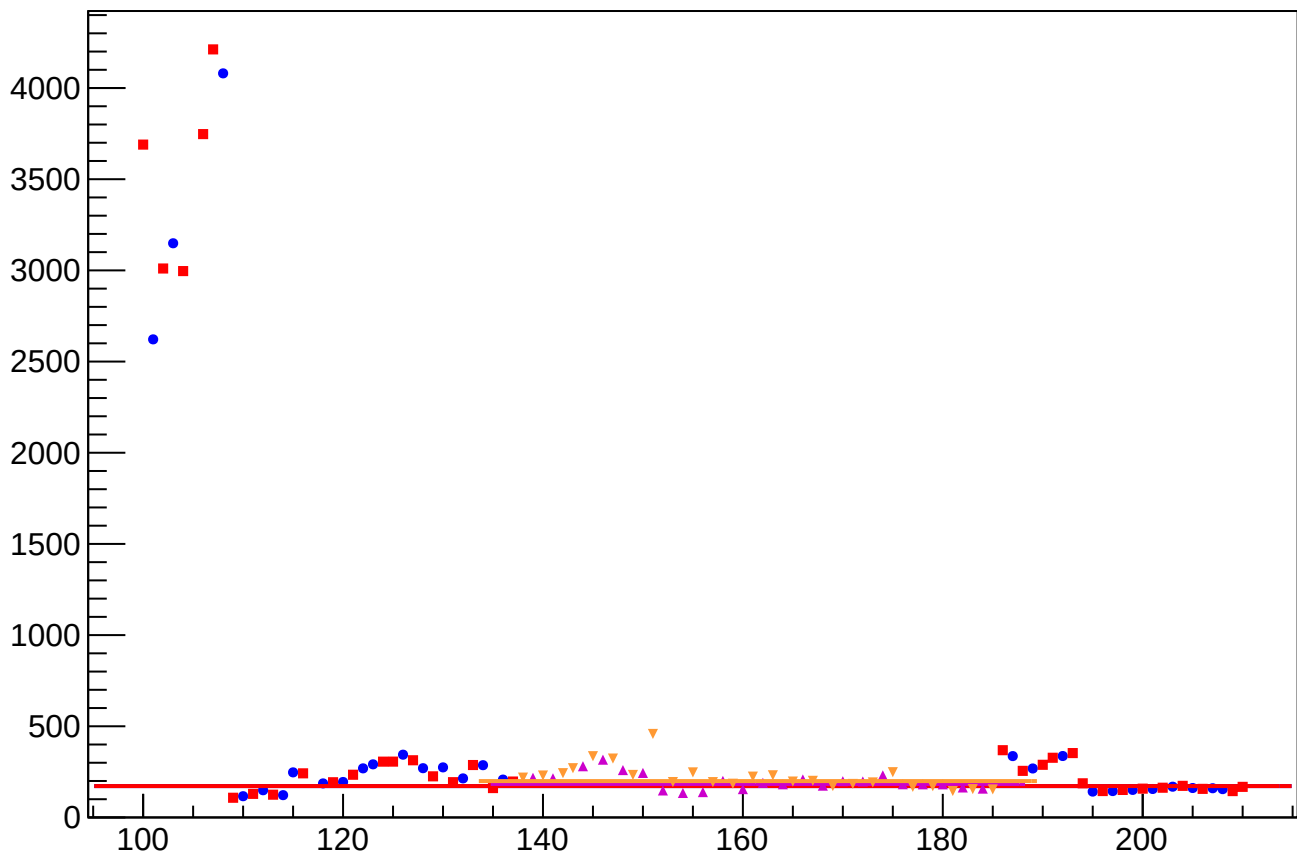
Right: -51.287 $\pm$ 34.228 χ^2 /NDF: 39.7/60

In: -11.417 $\pm$ 33.730 χ^2 /NDF:30.1/50

Out: -29.483 $\pm$ 33.777 χ^2 /NDF:26.6/57

All: -20.437 $\pm$ 23.867 χ^2 /NDF: 56.8/108

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 171.996+/-0.035 χ^2/NDF : 4505072.6/27

Left Out: 199.438+/-0.034 χ^2/NDF :1877848.7/24

Right Out: 172.059+/-0.033 χ^2/NDF : 5393658.8/32

Left In: 183.805+/-0.033 χ^2/NDF :1412869.6/22

Left: 191.246+/-0.024 χ^2/NDF : 3400676.1/47

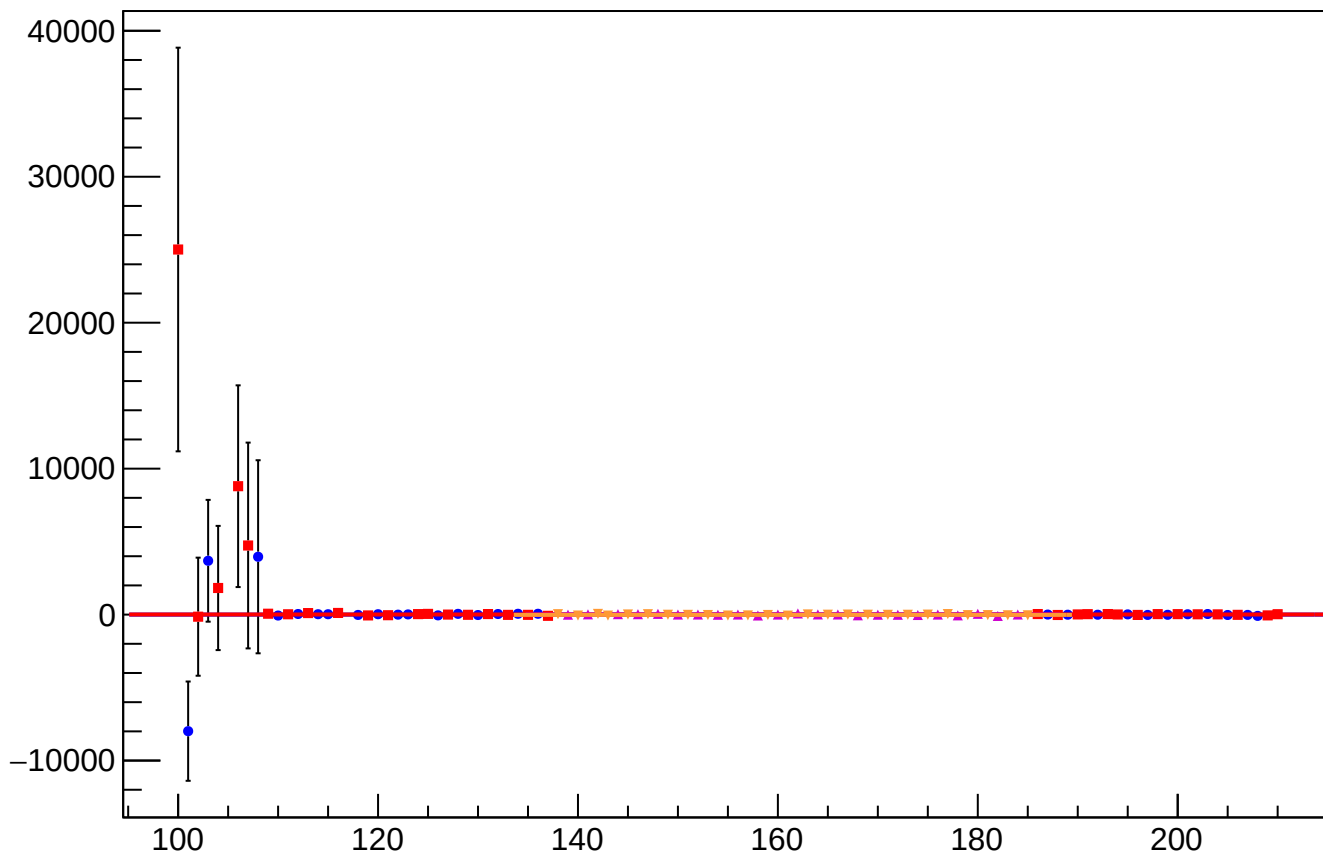
Right: 172.029+/-0.024 χ^2/NDF : 9898733.1/60

In: 178.346+/-0.024 χ^2/NDF :5978882.8/50

Out: 185.469+/-0.024 χ^2/NDF :7599904.1/57

All: 181.902+/-0.017 χ^2/NDF : 13623321.6/100

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -0.456 ± 7.645 $\chi^2/\text{NDF}: 29.5/27$

Left Out: -18.118 ± 6.704 $\chi^2/\text{NDF}: 21.7/24$

Right Out: 8.529 ± 7.198 $\chi^2/\text{NDF}: 34.3/32$

Left In: 1.267 ± 6.908 $\chi^2/\text{NDF}: 32.0/22$

Left: -8.716 ± 4.811 $\chi^2/\text{NDF}: 57.8/47$

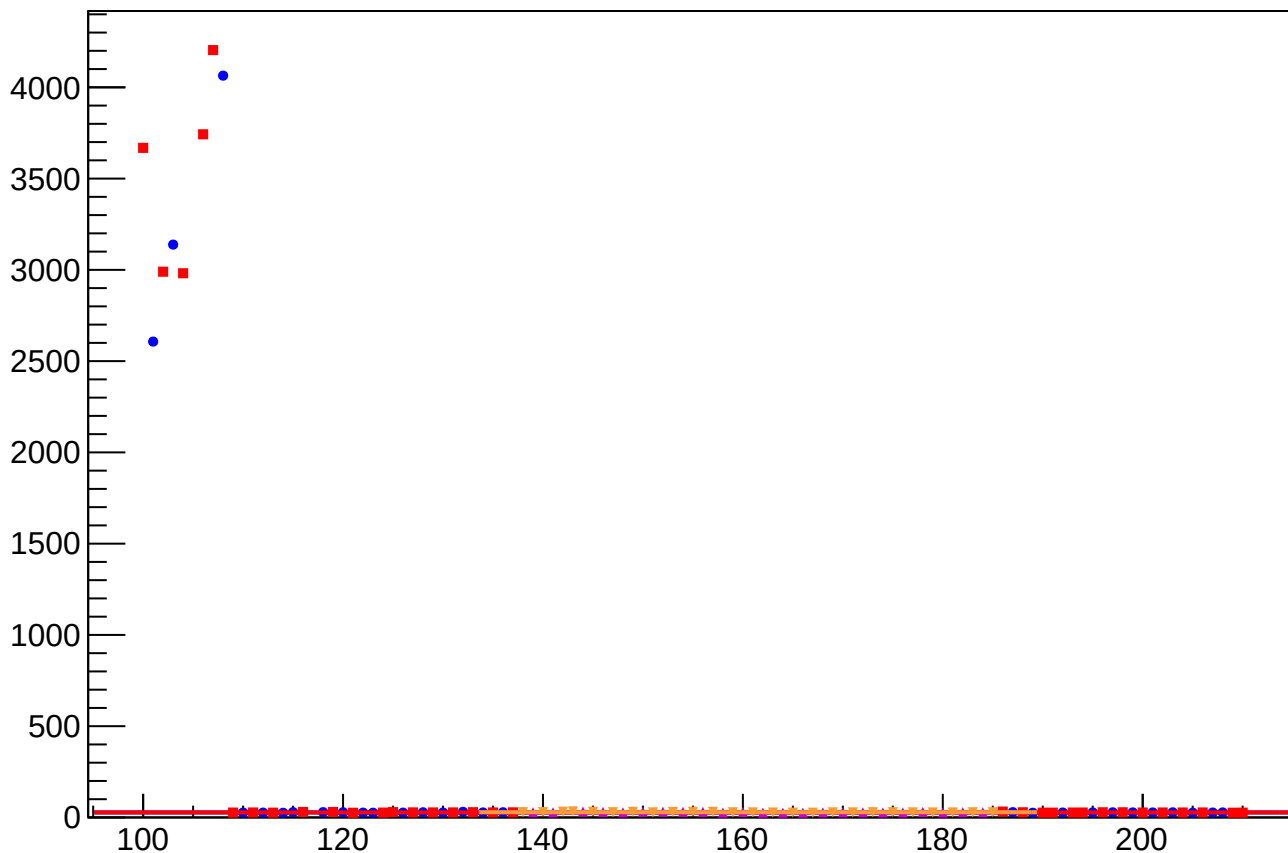
Right: 4.307 ± 5.241 $\chi^2/\text{NDF}: 64.5/60$

In: 0.493 ± 5.125 $\chi^2/\text{NDF}: 61.6/50$

Out: -5.740 ± 4.906 $\chi^2/\text{NDF}: 63.4/57$

All: -2.760 ± 3.544 $\chi^2/\text{NDF}: 125.7/108$

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 27.498 $\pm$ 0.005 χ^2 /NDF: 3040403.2/27

Left Out: 28.694 $\pm$ 0.005 χ^2 /NDF: 110466.9/24

Right Out: 27.427 $\pm$ 0.005 χ^2 /NDF: 3512170.8/32

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

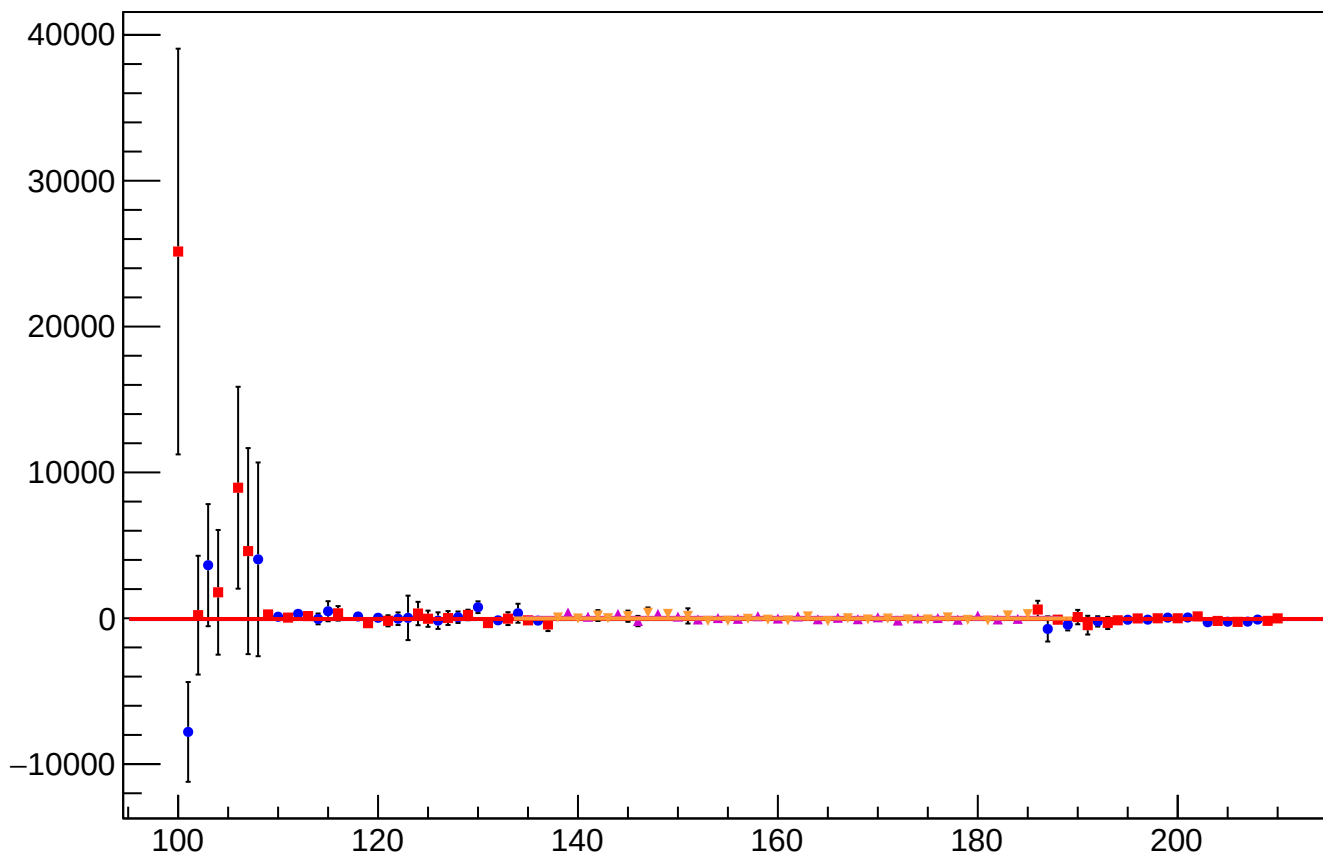
Right: 27.461 $\pm$ 0.004 χ^2 /NDF: 6552664.4/60

In: 28.147 $\pm$ 0.004 χ^2 /NDF: 3190391.0/50

Out: 28.106 $\pm$ 0.003 χ^2 /NDF: 3655784.5/57

All: 28.125 $\pm$ 0.003 χ^2 /NDF: 6846243.6/108

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -54.979 $\pm$ 49.455 χ^2 /NDF: 21.7/27

Left Out: -13.878 $\pm$ 48.155 χ^2 /NDF:8.8/24

Right Out: -48.551 $\pm$ 47.149 χ^2 /NDF: 18.9/32

Left In: 27.286 $\pm$ 45.907 χ^2 /NDF:7.5/22

Left: 7.688 $\pm$ 33.228 χ^2 /NDF: 16.7/47

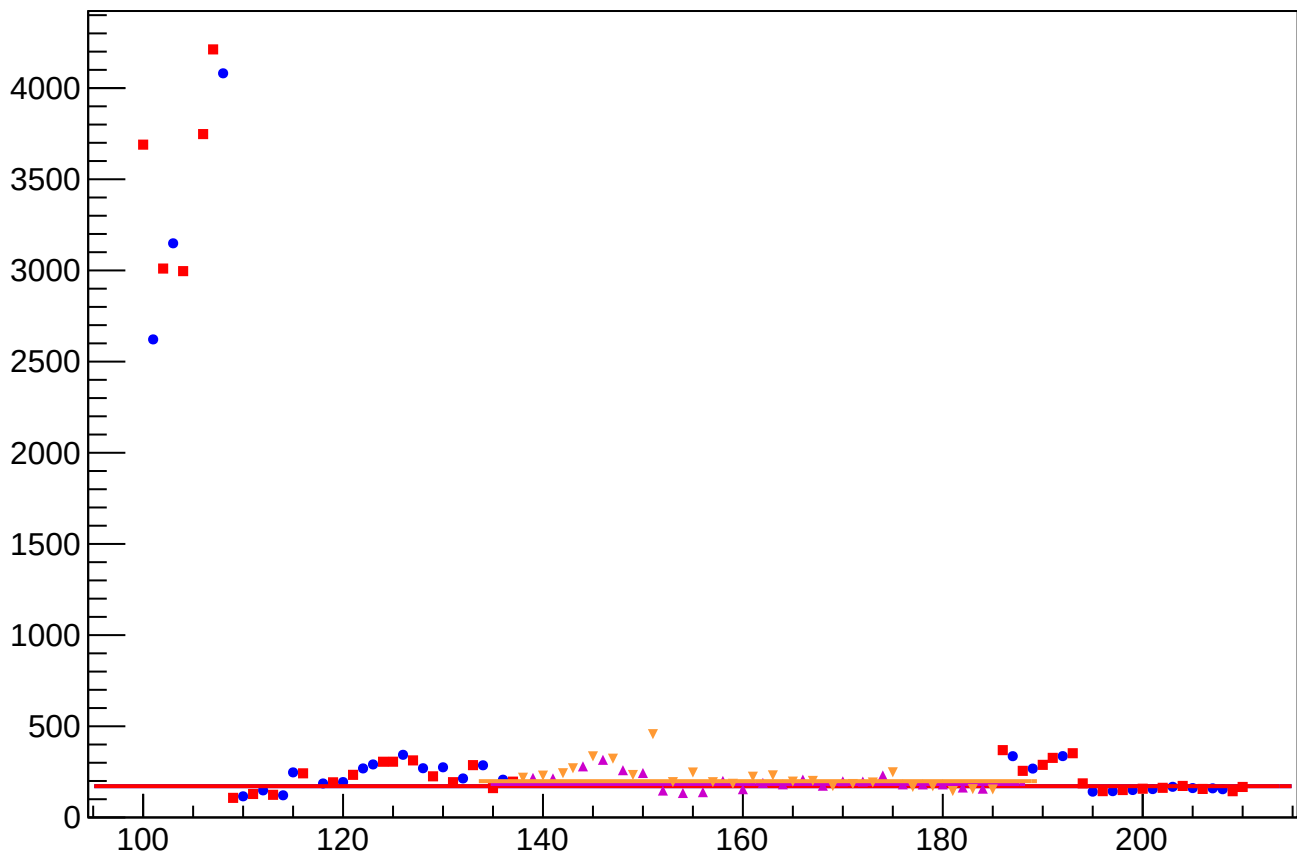
Right: -51.612 $\pm$ 34.125 χ^2 /NDF: 40.7/60

In: -10.789 $\pm$ 33.646 χ^2 /NDF:30.7/50

Out: -31.581 $\pm$ 33.690 χ^2 /NDF:28.0/57

All: -21.172 $\pm$ 23.807 χ^2 /NDF: 58.9/108

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 171.417 $\pm$ 0.035 χ^2 /NDF: 4518015.5/27

Left Out: 198.997 $\pm$ 0.034 χ^2 /NDF: 1877636.0/24

Right Out: 171.503 $\pm$ 0.033 χ^2 /NDF: 5411301.5/32

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

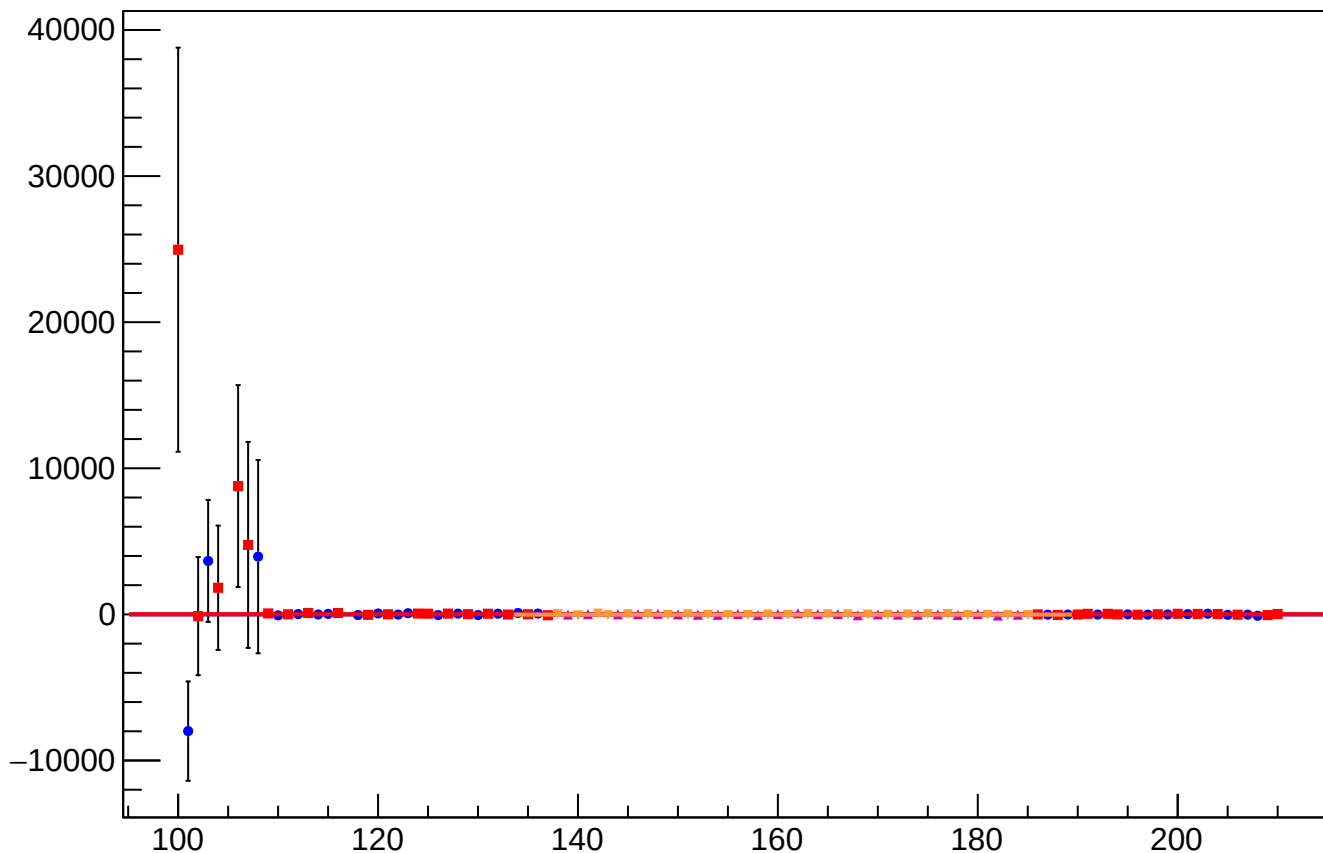
Right: 171.462 $\pm$ 0.024 χ^2 /NDF: 9929320.2/60

In: 177.876 $\pm$ 0.024 χ^2 /NDF: 5993863.6/50

Out: 184.959 $\pm$ 0.024 χ^2 /NDF: 7621791.7/57

All: 181.413 $\pm$ 0.017 χ^2 /NDF: 13659916.2/100

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -1.945 ± 7.621 χ^2/NDF : 34.1/27

Left Out: -15.829 ± 6.733 χ^2/NDF : 16.5/24

Right Out: 11.496 ± 7.179 χ^2/NDF : 30.3/32

Left In: -0.498 ± 6.937 χ^2/NDF : 26.1/22

Left: -8.392 ± 4.831 χ^2/NDF : 45.1/47

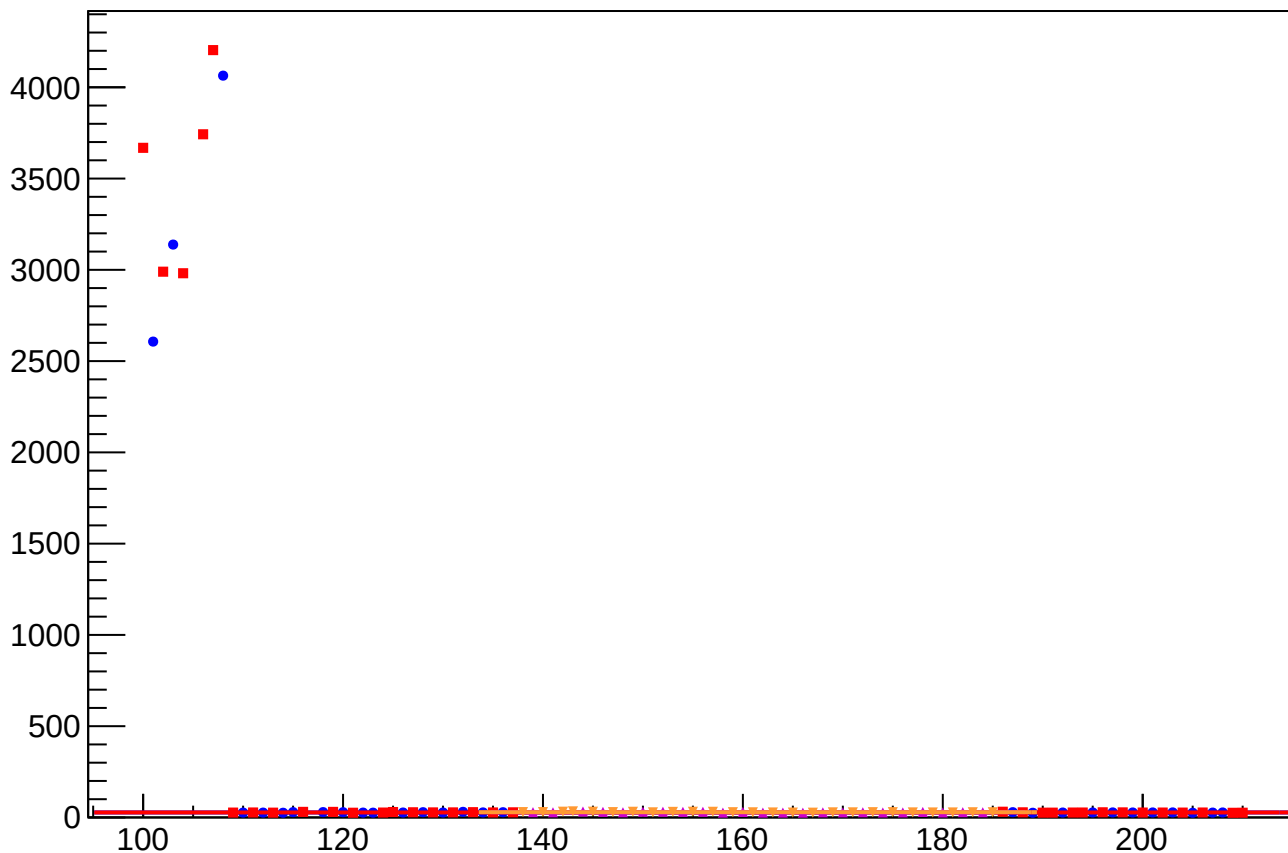
Right: 5.176 ± 5.226 χ^2/NDF : 66.1/60

In: -1.154 ± 5.130 χ^2/NDF : 60.2/50

Out: -3.042 ± 4.911 χ^2/NDF : 54.5/57

All: -2.139 ± 3.548 χ^2/NDF : 114.8/108

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 27.407 $\pm$ 0.005 χ^2 /NDF: 3046425.5/27

Left Out: 28.814 $\pm$ 0.005 χ^2 /NDF:122153.6/24

Right Out: 27.353 $\pm$ 0.005 χ^2 /NDF: 3516705.4/32

Left In: 28.797 $\pm$ 0.005 χ^2 /NDF:128279.2/22

Left: 28.806 $\pm$ 0.003 χ^2 /NDF: 250439.0/47

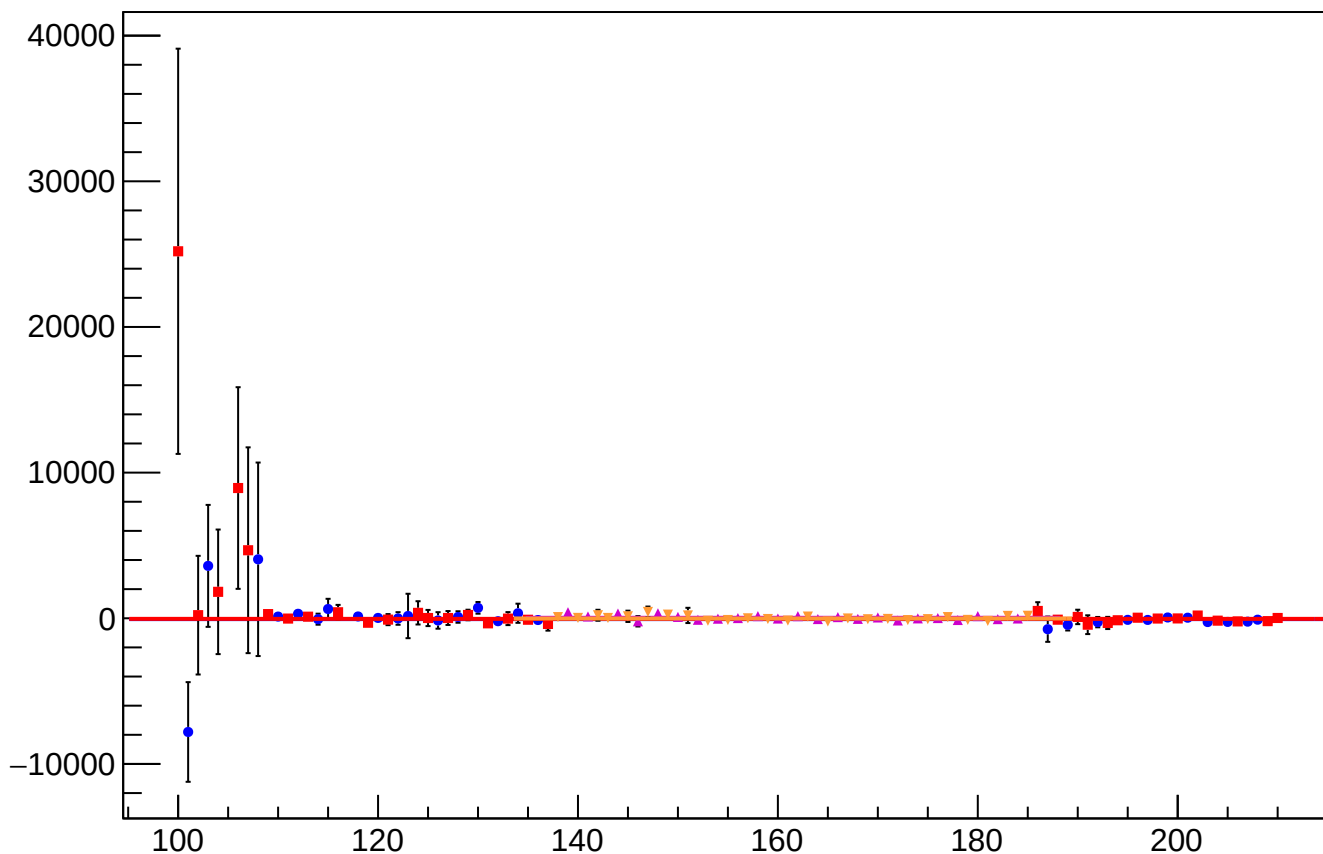
Right: 27.378 $\pm$ 0.004 χ^2 /NDF: 6563184.3/60

In: 28.167 $\pm$ 0.004 χ^2 /NDF:3211101.2/50

Out: 28.130 $\pm$ 0.003 χ^2 /NDF:3682943.6/57

All: 28.148 $\pm$ 0.003 χ^2 /NDF: 6894099.0/108

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -57.012 $\pm$ 49.795 χ^2 /NDF: 22.0/27

Left Out: -13.966 $\pm$ 48.735 χ^2 /NDF:8.1/24

Right Out: -40.411 $\pm$ 47.497 χ^2 /NDF: 18.3/32

Left In: 31.477 $\pm$ 46.483 χ^2 /NDF:7.8/22

Left: 9.830 $\pm$ 33.637 χ^2 /NDF: 16.4/47

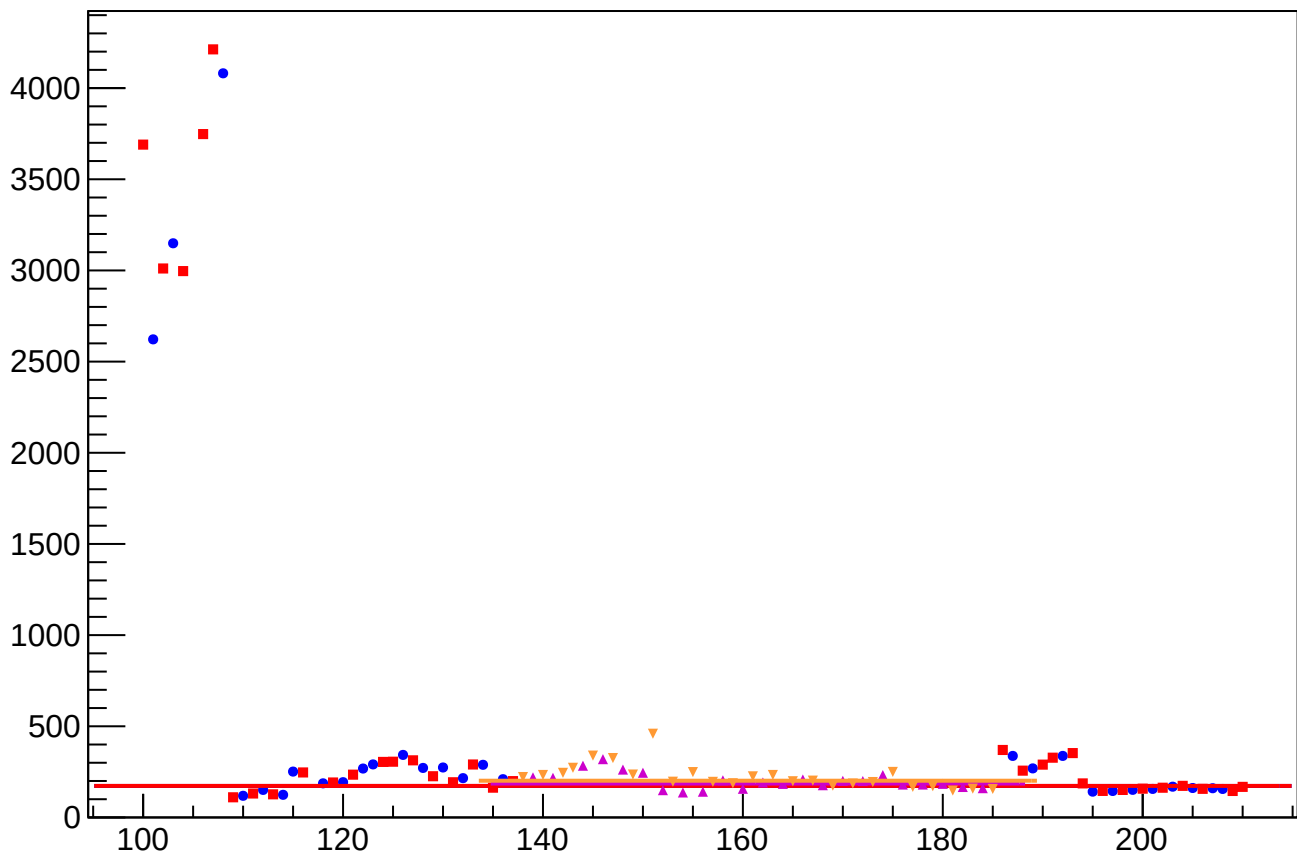
Right: -48.319 $\pm$ 34.369 χ^2 /NDF: 40.3/60

In: -9.727 $\pm$ 33.979 χ^2 /NDF:31.5/50

Out: -27.528 $\pm$ 34.015 χ^2 /NDF:26.6/57

All: -18.618 $\pm$ 24.040 χ^2 /NDF: 58.2/108

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 172.702+/-0.035 χ^2/NDF : 4486983.9/27

Left Out: 201.503+/-0.034 χ^2/NDF :1854905.1/24

Right Out: 172.978+/-0.034 χ^2/NDF : 5352666.6/32

Left In: 185.878+/-0.033 χ^2/NDF :1380877.6/22

Left: 193.321+/-0.024 χ^2/NDF : 3343425.2/47

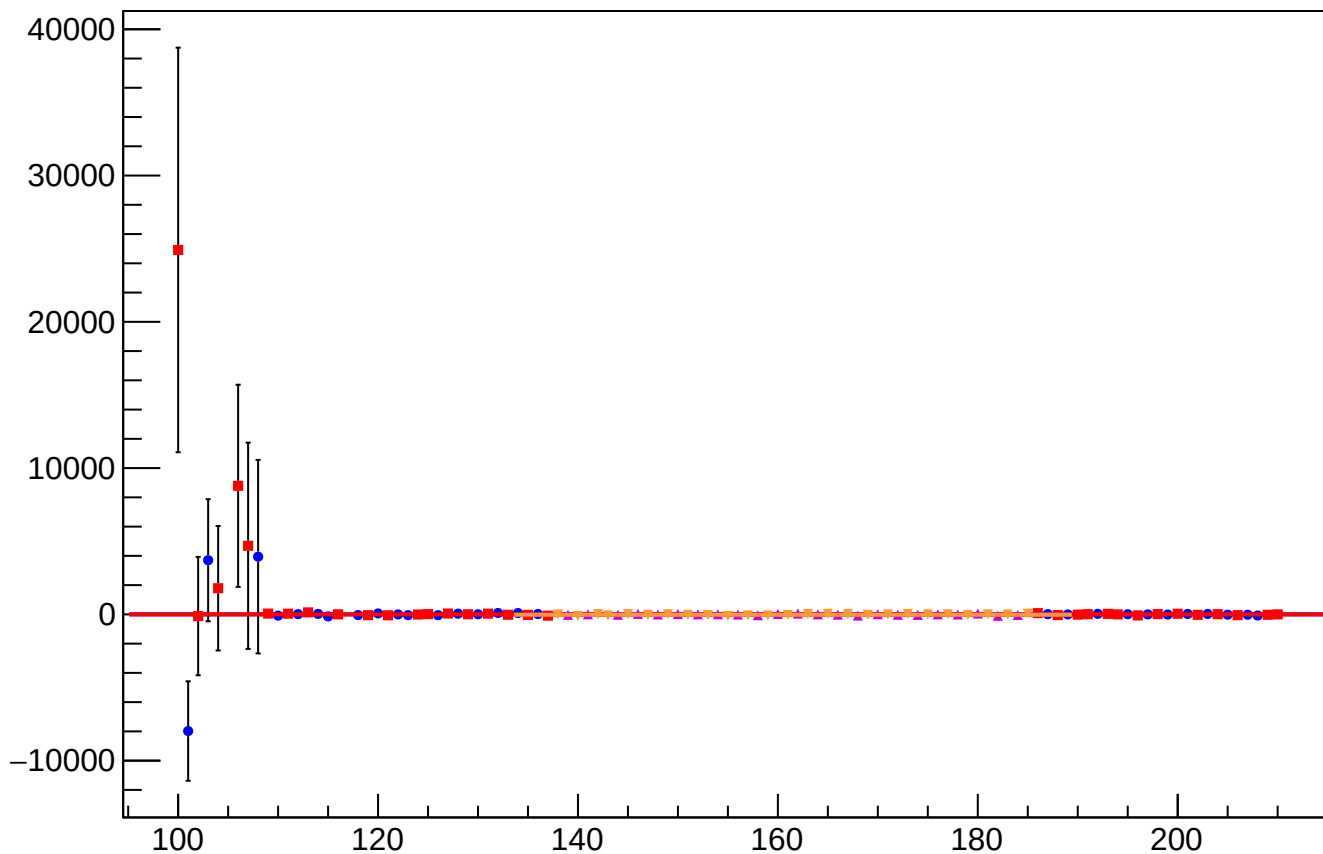
Right: 172.847+/-0.024 χ^2/NDF : 9839682.7/60

In: 179.743+/-0.024 χ^2/NDF :5942693.1/50

Out: 186.874+/-0.024 χ^2/NDF :7558956.0/57

All: 183.305+/-0.017 χ^2/NDF : 13545640.8/10

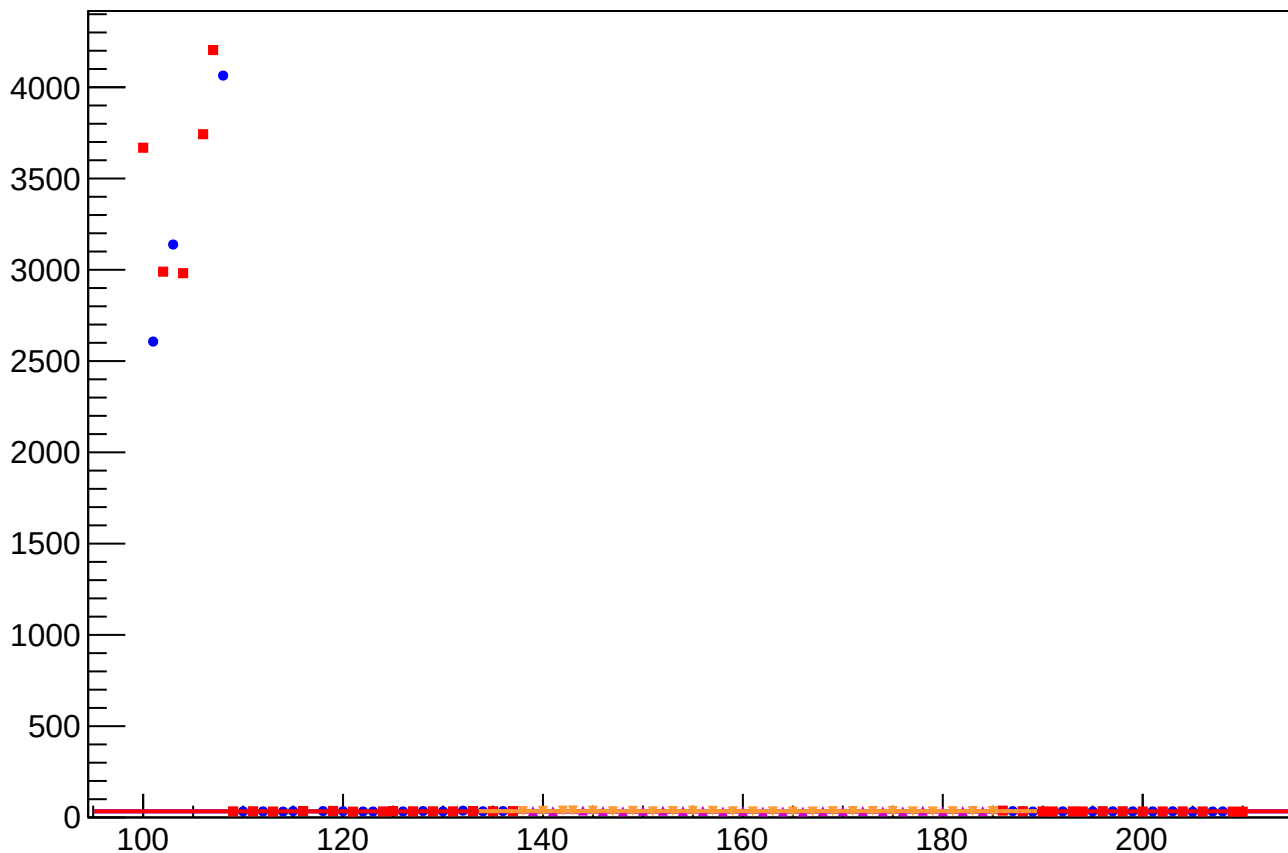
asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 1.720 ± 9.299 $\chi^2/\text{NDF}: 26.7/27$
 Left Out: -24.144 ± 8.076 $\chi^2/\text{NDF}: 24.9/24$
 Right Out: -0.781 ± 8.767 $\chi^2/\text{NDF}: 34.9/32$
 Left In: -5.924 ± 8.340 $\chi^2/\text{NDF}: 21.0/22$

Left: -15.326 ± 5.802 $\chi^2/\text{NDF}: 48.4/47$
 Right: 0.396 ± 6.379 $\chi^2/\text{NDF}: 61.7/60$
 In: -2.516 ± 6.209 $\chi^2/\text{NDF}: 48.1/50$
 Out: -13.419 ± 5.940 $\chi^2/\text{NDF}: 63.6/57$
 All: -8.209 ± 4.292 $\chi^2/\text{NDF}: 113.3/108$

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 33.463+/-0.007 χ^2/NDF : 3018812.2/27

Left Out: 34.617+/-0.006 χ^2/NDF : 57868.4/24

Right Out: 33.450+/-0.006 χ^2/NDF : 3474032.6/32

Left In: 34.682+/-0.006 χ^2/NDF : 59834.3/22

Left: 34.649+/-0.004 χ^2/NDF : 117764.0/47

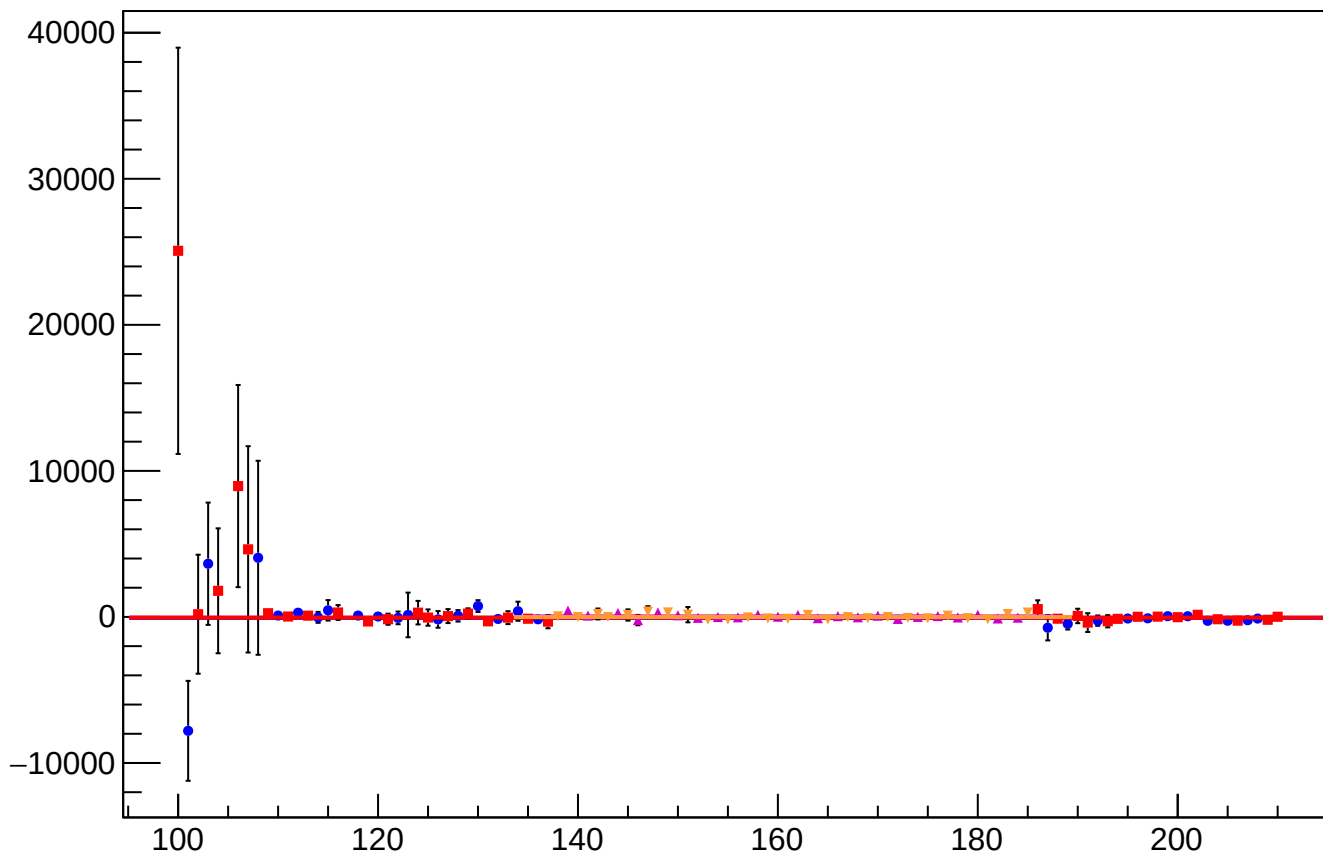
Right: 33.456+/-0.005 χ^2/NDF : 6492846.8/60

In: 34.139+/-0.004 χ^2/NDF : 3097679.6/50

Out: 34.082+/-0.004 χ^2/NDF : 3551081.7/57

All: 34.109+/-0.003 χ^2/NDF : 6648849.2/108

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -61.280 ± 49.649 χ^2/NDF : 21.6/27

Left Out: -7.558 ± 48.662 χ^2/NDF : 8.8/24

Right Out: -46.360 ± 47.319 χ^2/NDF : 17.1/32

Left In: 34.977 ± 46.421 χ^2/NDF : 7.1/22

Left: 14.712 ± 33.589 χ^2/NDF : 16.3/47

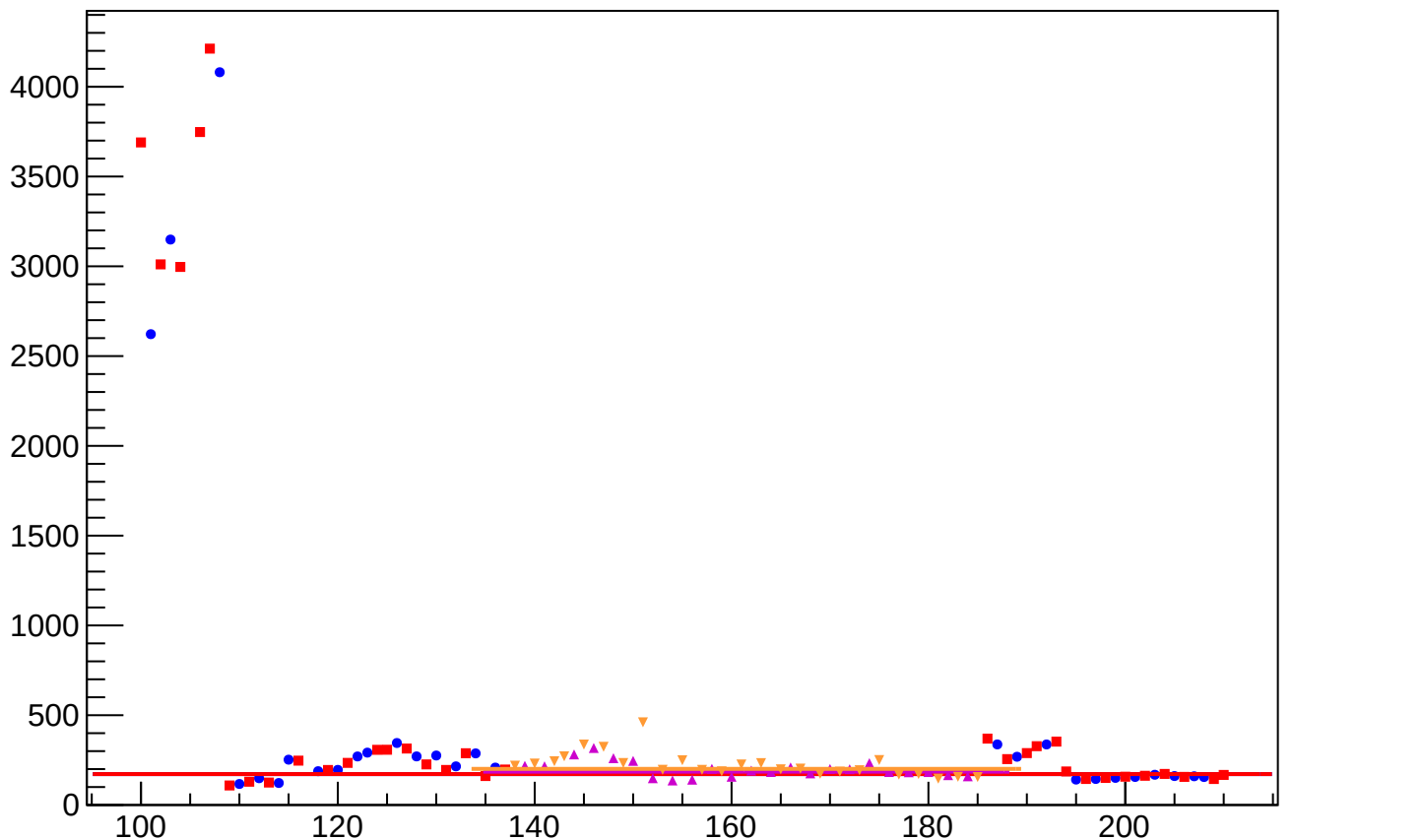
Right: -53.462 ± 34.254 χ^2/NDF : 38.8/60

In: -9.921 ± 33.908 χ^2/NDF : 30.8/50

Out: -27.502 ± 33.924 χ^2/NDF : 26.2/57

All: -18.707 ± 23.982 χ^2/NDF : 57.1/108

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 172.101 $\pm$ 0.035 χ^2 /NDF: 4515596.9/27

Left Out: 201.198 $\pm$ 0.034 χ^2 /NDF:1848437.4/24

Right Out: 172.168 $\pm$ 0.033 χ^2 /NDF: 5400163.3/32

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

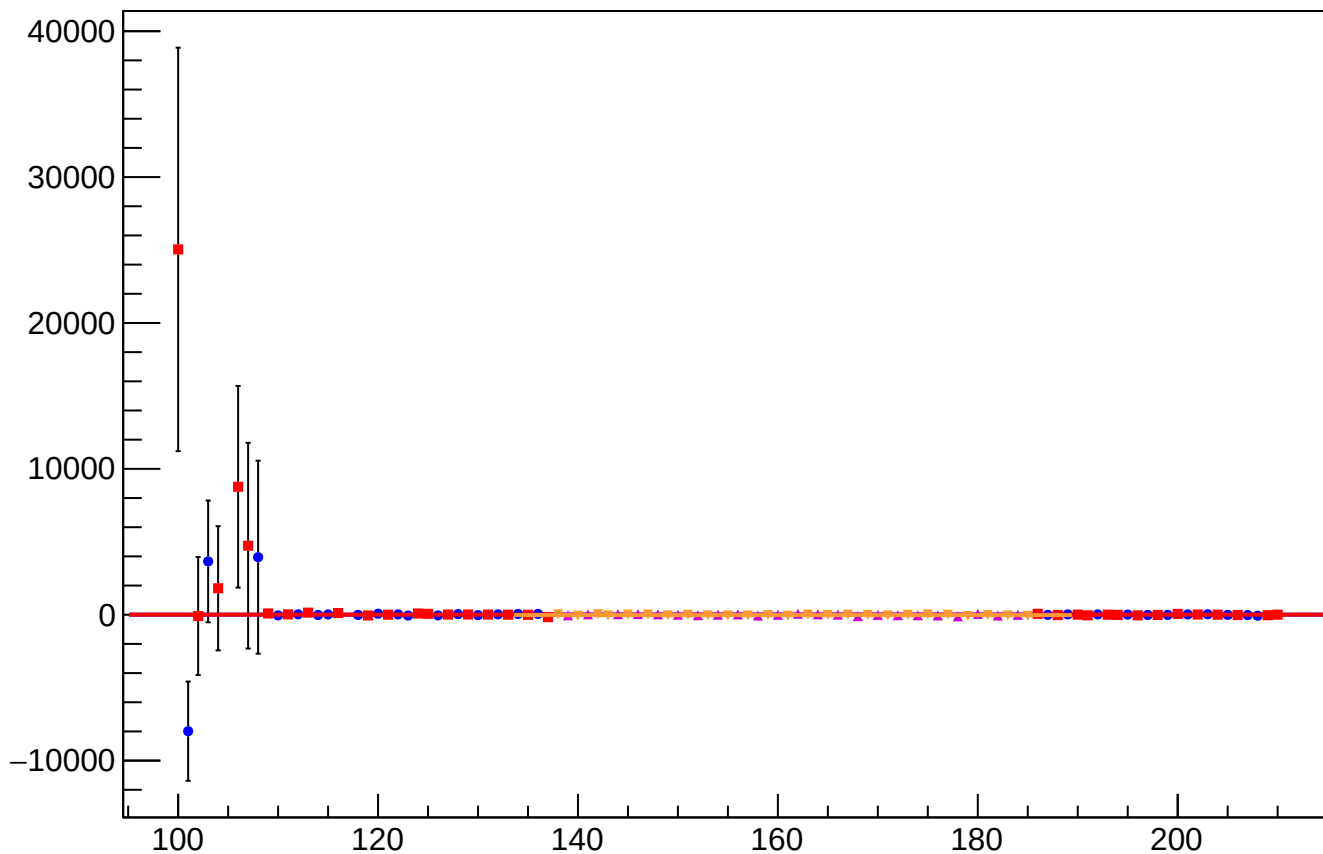
Right: 172.136 $\pm$ 0.024 χ^2 /NDF: 9915762.1/60

In: 179.318 $\pm$ 0.024 χ^2 /NDF:5966218.8/50

Out: 186.277 $\pm$ 0.024 χ^2 /NDF:7614457.9/57

All: 182.796 $\pm$ 0.017 χ^2 /NDF: 13622774.9/100

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 5.106 ± 8.420 $\chi^2/\text{NDF}: 21.8/27$

Left Out: -23.320 ± 7.352 $\chi^2/\text{NDF}: 18.3/24$

Right Out: 5.347 ± 7.936 $\chi^2/\text{NDF}: 38.3/32$

Left In: -6.386 ± 7.577 $\chi^2/\text{NDF}: 38.7/22$

Left: -15.108 ± 5.276 $\chi^2/\text{NDF}: 59.6/47$

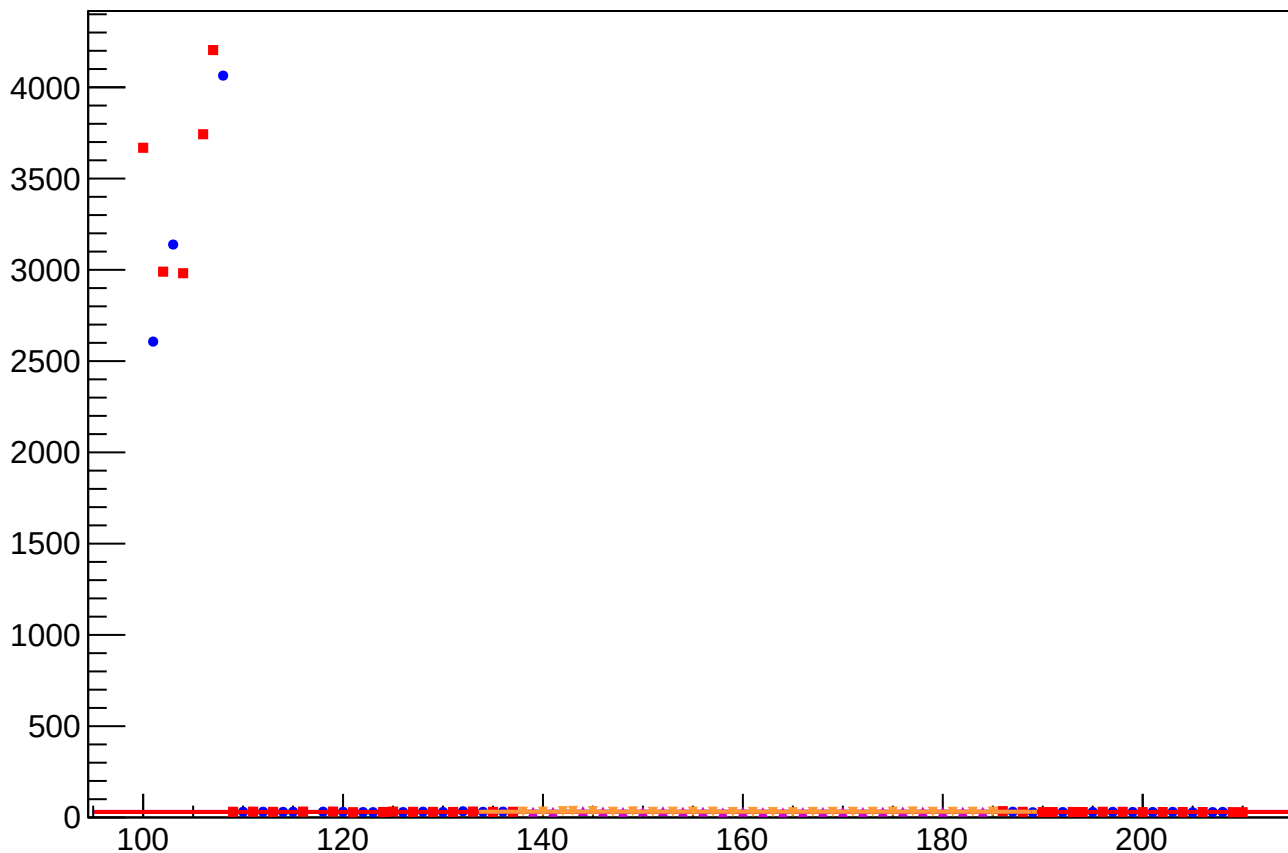
Right: 5.234 ± 5.775 $\chi^2/\text{NDF}: 60.1/60$

In: -1.244 ± 5.632 $\chi^2/\text{NDF}: 61.6/50$

Out: -10.080 ± 5.393 $\chi^2/\text{NDF}: 63.6/57$

All: -5.853 ± 3.895 $\chi^2/\text{NDF}: 126.5/108$

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 30.289 $\pm$ 0.006 χ^2 /NDF: 3036585.6/27

Left Out: 31.488 $\pm$ 0.005 χ^2 /NDF:81938.2/24

Right Out: 30.256 $\pm$ 0.006 χ^2 /NDF: 3492114.9/32

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

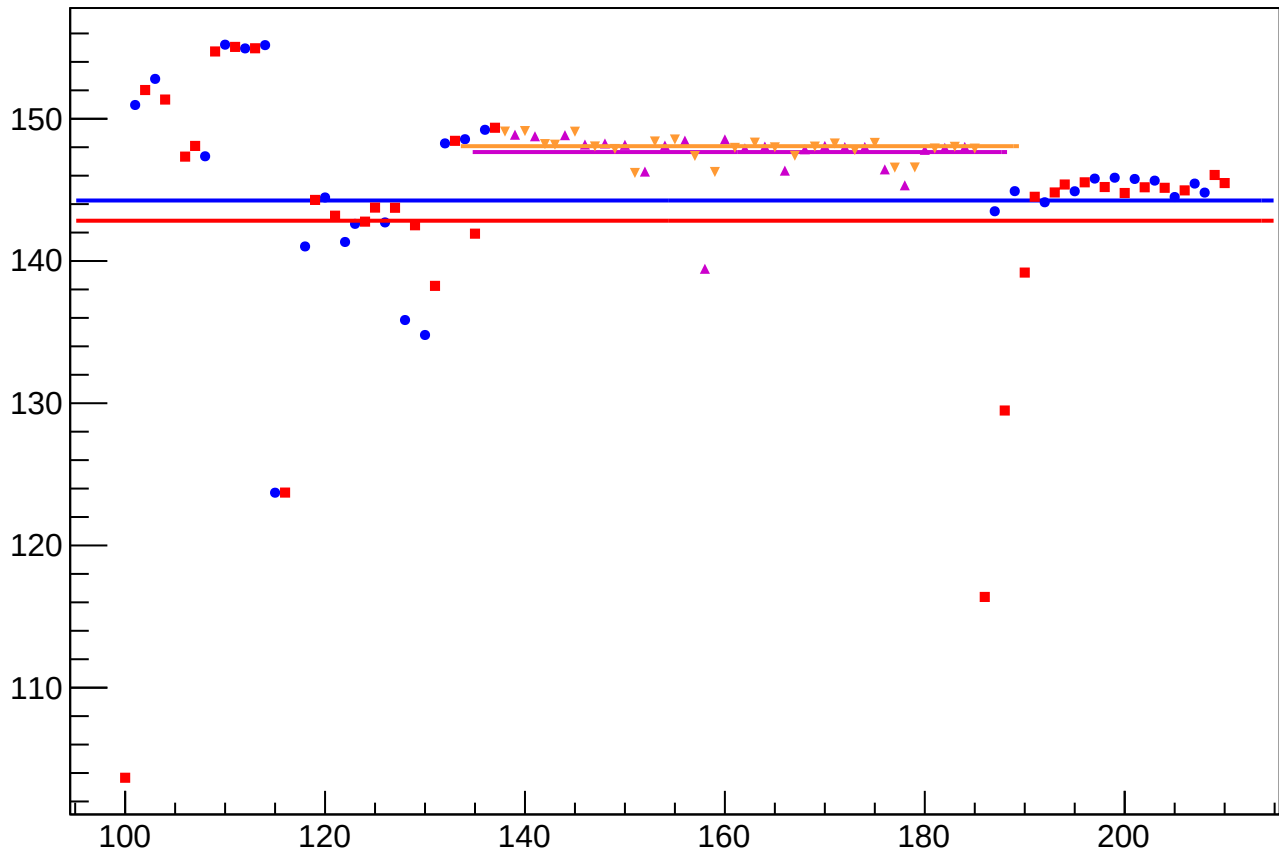
Right: 30.271 $\pm$ 0.004 χ^2 /NDF: 6528716.3/60

In: 30.944 $\pm$ 0.004 χ^2 /NDF:3146341.4/50

Out: 30.919 $\pm$ 0.004 χ^2 /NDF:3600013.5/57

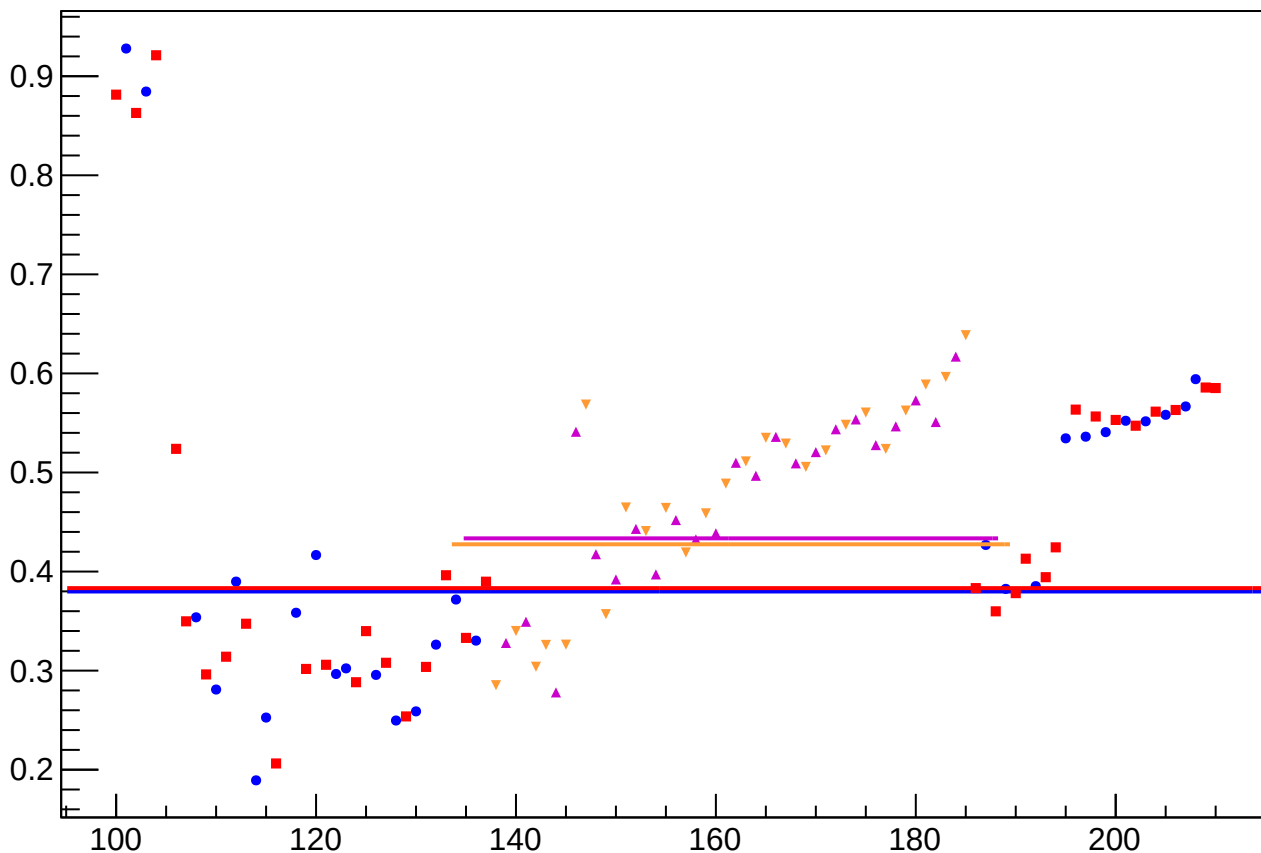
All: 30.931 $\pm$ 0.003 χ^2 /NDF: 6746375.6/108

yield_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: 144.255+/-0.000	χ^2/NDF : 3487320924.7/27	Left: 147.875+/-0.000	χ^2/NDF : 417177881.5/47
Left Out: 148.074+/-0.000	χ^2/NDF : 65673678.9/24	Right: 143.496+/-0.000	χ^2/NDF : 11023369545.7/60
Right Out: 142.833+/-0.000	χ^2/NDF : 7444786274.1/32	In: 145.970+/-0.000	χ^2/NDF : 4325498698.4/50
Left In: 147.660+/-0.000	χ^2/NDF : 343892338.9/22	Out: 145.394+/-0.000	χ^2/NDF : 8810894299.1/57
		All: 145.667+/-0.000	χ^2/NDF : 13166138963.0

yield_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 0.380 $\pm$ 0.000 χ^2 /NDF: 2881670.0/27

Left Out: 0.428 $\pm$ 0.000 χ^2 /NDF:1892802.8/24

Right Out: 0.383 $\pm$ 0.000 χ^2 /NDF: 2883810.6/32

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

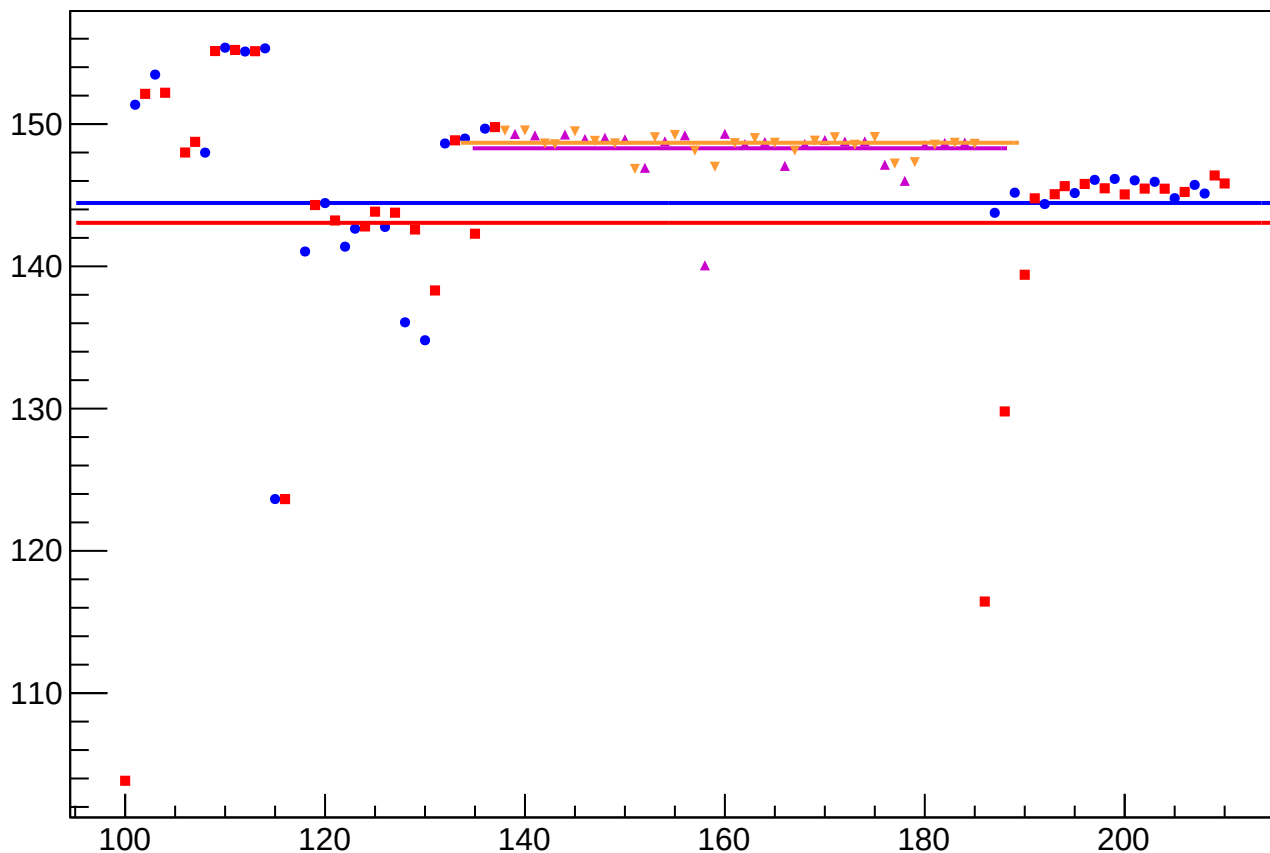
Right: 0.382 $\pm$ 0.000 χ^2 /NDF: 5766513.2/60

In: 0.407 $\pm$ 0.000 χ^2 /NDF:4606039.1/50

Out: 0.405 $\pm$ 0.000 χ^2 /NDF:4962010.6/57

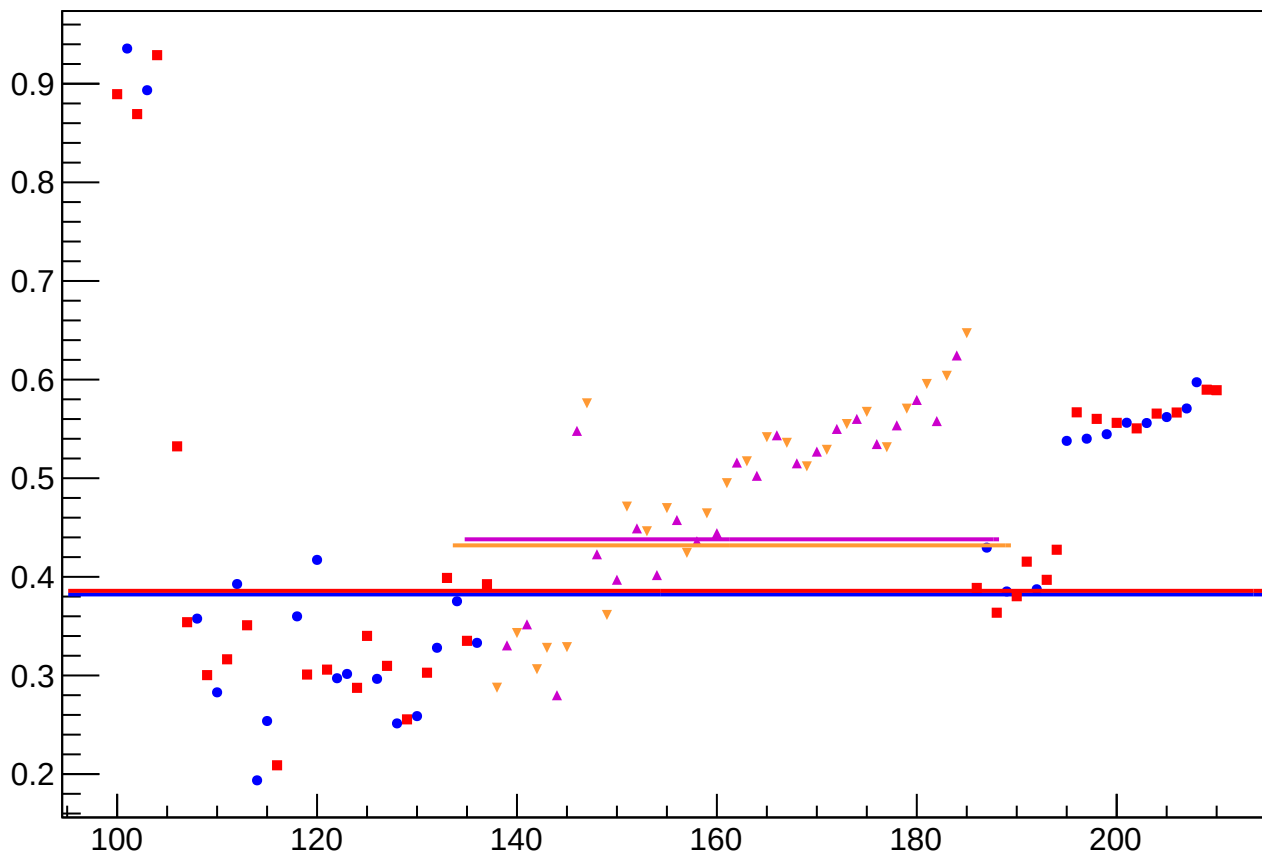
All: 0.406 $\pm$ 0.000 χ^2 /NDF: 9568768.2/108

yield_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: 144.454+/-0.000	χ^2/NDF : 3536155640.1/27	Left: 148.500+/-0.000	χ^2/NDF : 391414535.1/47
Left Out: 148.687+/-0.000	χ^2/NDF : 52285197.5/24	Right: 143.709+/-0.000	χ^2/NDF : 11018819887.1/60
Right Out: 143.058+/-0.000	χ^2/NDF : 7395714203.8/32	In: 146.381+/-0.000	χ^2/NDF : 4487646032.1/50
Left In: 148.298+/-0.000	χ^2/NDF : 332527463.6/22	Out: 145.798+/-0.000	χ^2/NDF : 8922313047.4/57
		All: 146.074+/-0.000	χ^2/NDF : 13439990650.0

yield_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 0.382 $\pm$ 0.000 χ^2 /NDF: 2889366.3/27

Left Out: 0.432 $\pm$ 0.000 χ^2 /NDF:1924979.0/24

Right Out: 0.386 $\pm$ 0.000 χ^2 /NDF: 2888002.2/32

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

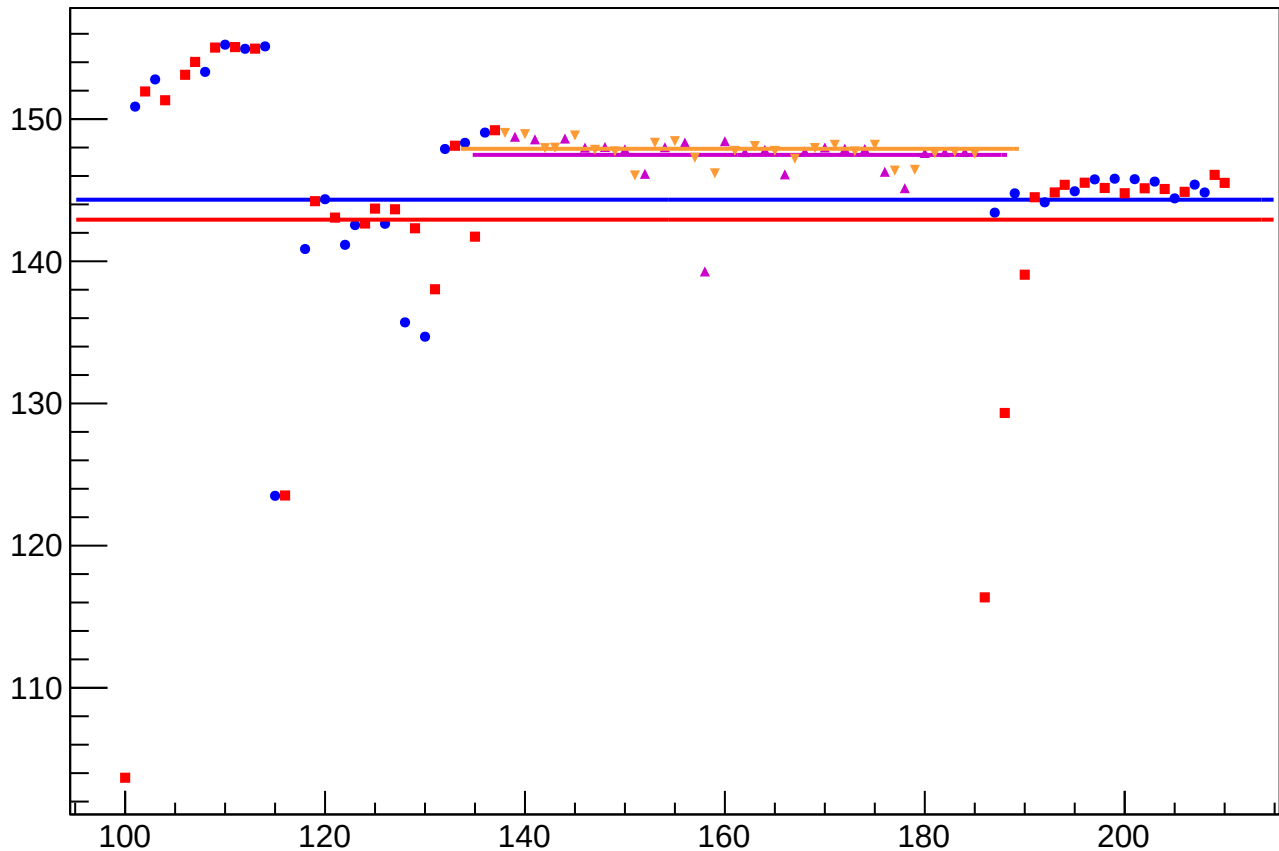
Right: 0.384 $\pm$ 0.000 χ^2 /NDF: 5778559.6/60

In: 0.410 $\pm$ 0.000 χ^2 /NDF:4655839.5/50

Out: 0.408 $\pm$ 0.000 χ^2 /NDF:5010774.3/57

All: 0.409 $\pm$ 0.000 χ^2 /NDF: 9667270.4/108

yield_bcm_an_us_mean vs Slug, Sign Corrected



Right In: 144.331+/-0.000 χ^2/NDF : 3693273946.5/27

Left Out: 147.912+/-0.000 χ^2/NDF : 64463426.1/24

Right Out: 142.928+/-0.000 χ^2/NDF : 7819808638.4/32

Left In: 147.483+/-0.000 χ^2/NDF : 342674720.4/22

Left: 147.706+/-0.000 χ^2/NDF : 415263003.2/47

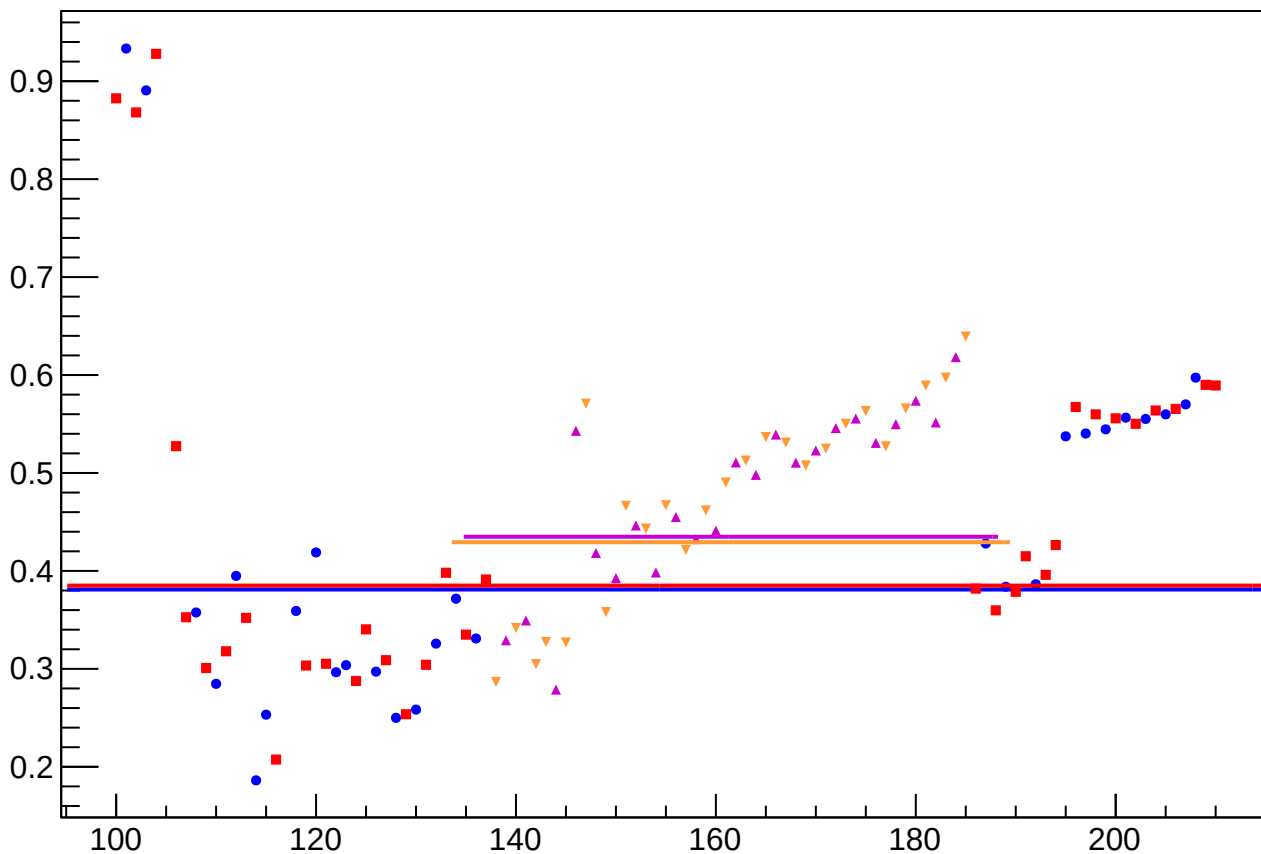
Right: 143.582+/-0.000 χ^2/NDF : 11601307281.7/60

In: 145.920+/-0.000 χ^2/NDF : 4456497115.0/50

Out: 145.365+/-0.000 χ^2/NDF : 9050378959.3/57

All: 145.628+/-0.000 χ^2/NDF : 13534291088.0/108

yield_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 0.381+/-0.000 χ^2/NDF : 2915699.0/27

Left Out: 0.429+/-0.000 χ^2/NDF :1891709.3/24

Right Out: 0.385+/-0.000 χ^2/NDF : 2891613.2/32

Left In: 0.435+/-0.000 χ^2/NDF :1485915.1/22

Left: 0.432+/-0.000 χ^2/NDF : 3380372.0/47

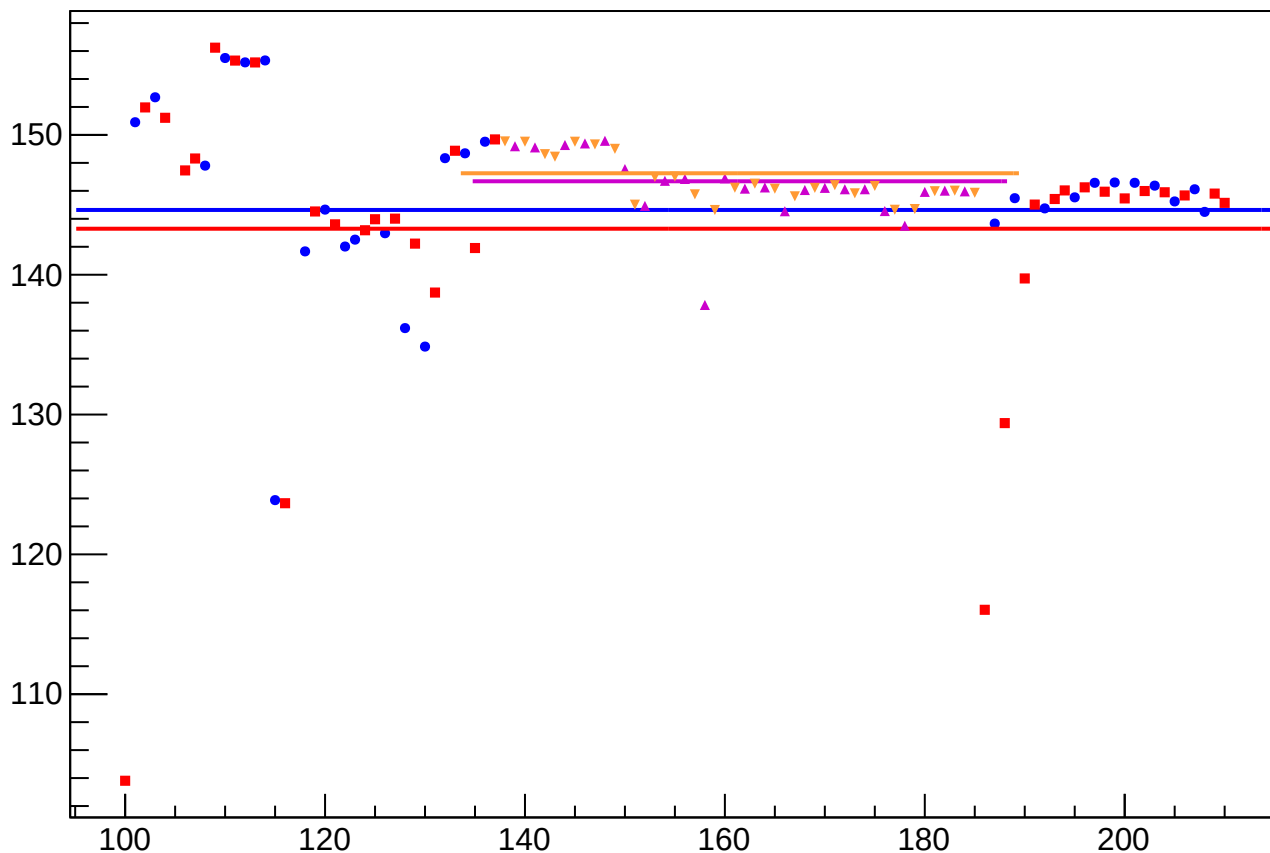
Right: 0.383+/-0.000 χ^2/NDF : 5808753.6/60

In: 0.408+/-0.000 χ^2/NDF :4647242.5/50

Out: 0.407+/-0.000 χ^2/NDF :4967434.3/57

All: 0.407+/-0.000 χ^2/NDF : 9615068.0/108

yield_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: 144.634 $\pm$ 0.000

χ^2 /NDF: 3219145833.8/27

Left Out: 147.257 $\pm$ 0.000

χ^2 /NDF: 261906278.3/24

Right Out: 143.291 $\pm$ 0.000

χ^2 /NDF: 7141946334.2/32

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: 143.916 $\pm$ 0.000

χ^2 /NDF: 10436362339.4/60

In: 145.678 $\pm$ 0.000

χ^2 /NDF: 3941469964.0/50

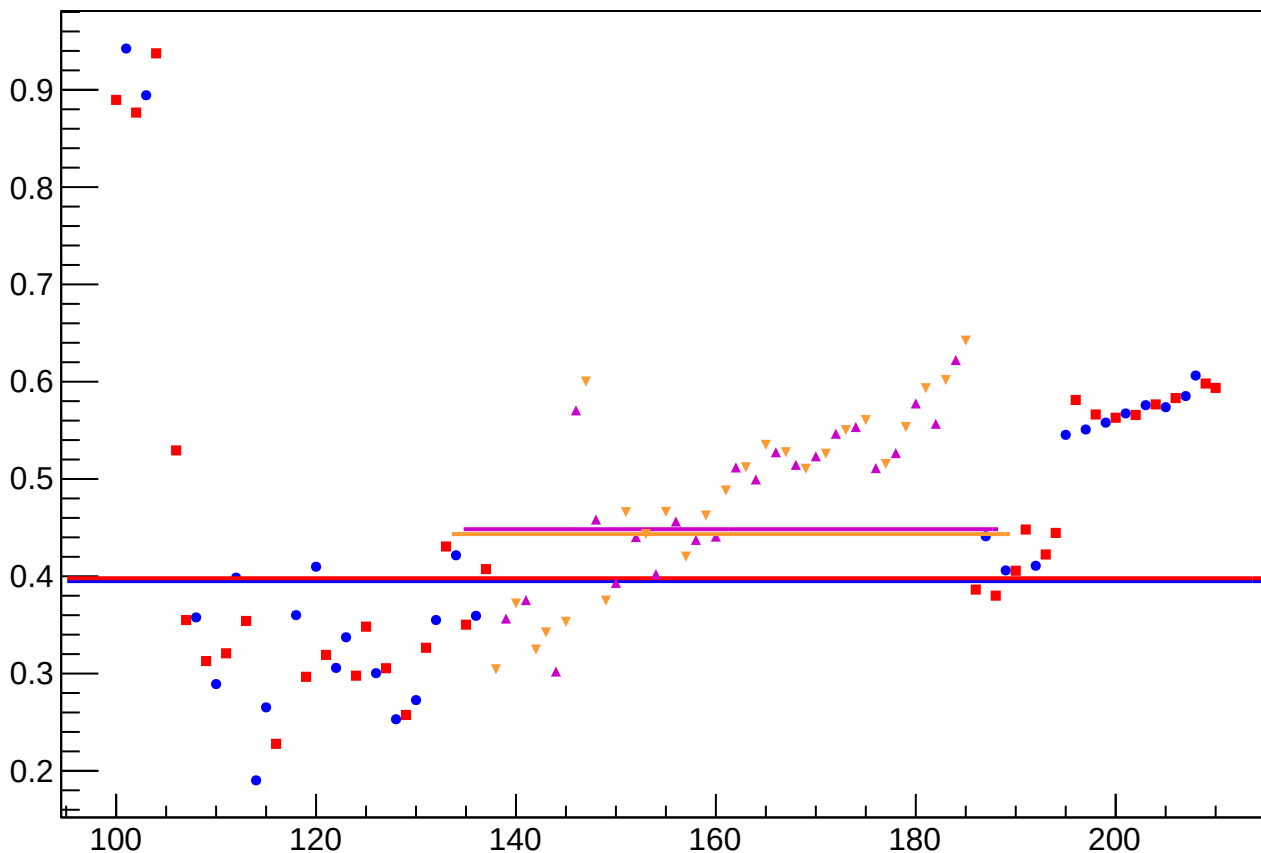
Out: 145.242 $\pm$ 0.000

χ^2 /NDF: 8098660558.5/57

All: 145.449 $\pm$ 0.000

χ^2 /NDF: 12056060094.0/100

yield_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 0.395 $\pm$ 0.000 χ^2 /NDF: 2834911.0/27

Left Out: 0.443 $\pm$ 0.000 χ^2 /NDF:1480479.3/24

Right Out: 0.398 $\pm$ 0.000 χ^2 /NDF: 2799631.2/32

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

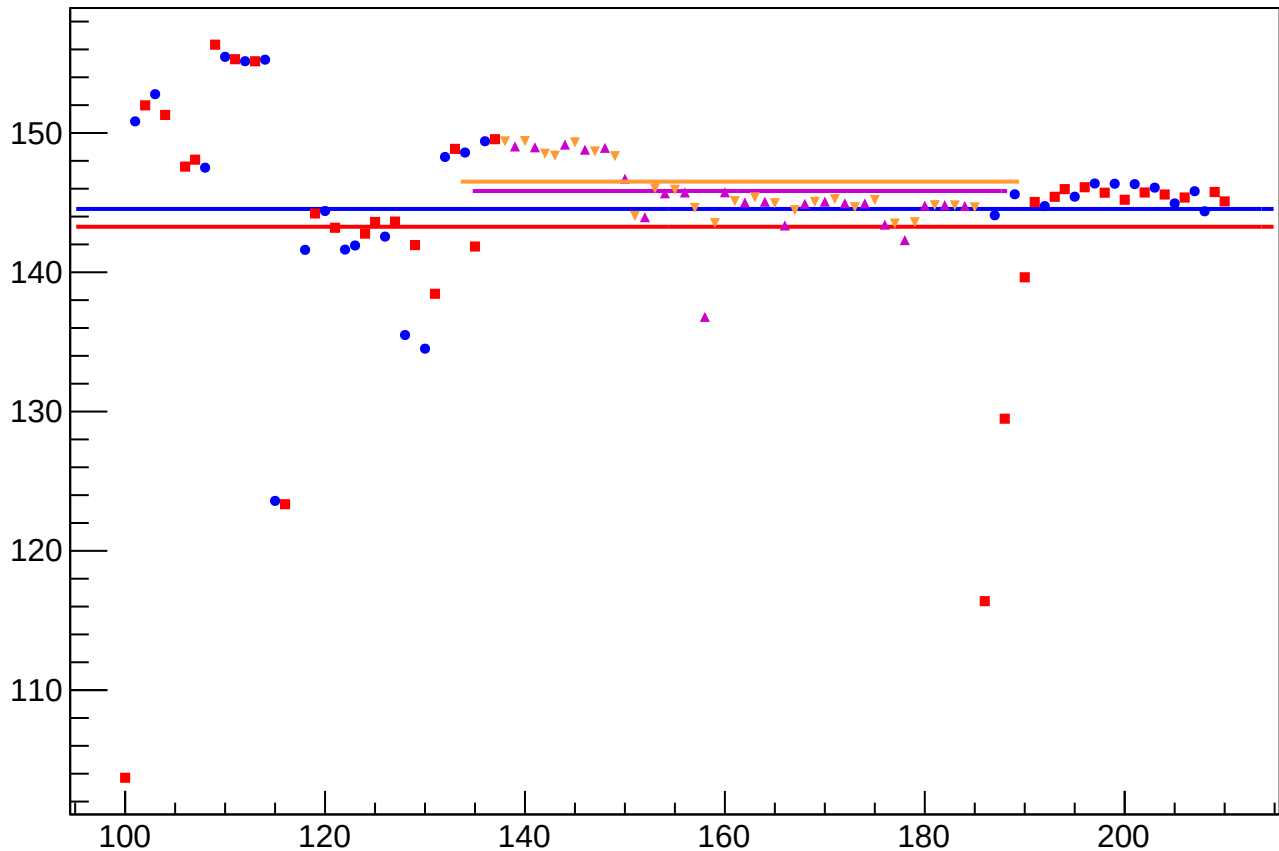
Right: 0.397 $\pm$ 0.000 χ^2 /NDF: 5635269.4/60

In: 0.422 $\pm$ 0.000 χ^2 /NDF:4181729.8/50

Out: 0.420 $\pm$ 0.000 χ^2 /NDF:4462285.2/57

All: 0.421 $\pm$ 0.000 χ^2 /NDF: 8644612.4/108

yield_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: 144.547 +/- 0.000

χ^2/NDF : 3328951922.7/27

Left Out: 146.508 +/- 0.000

χ^2/NDF : 401248837.9/24

Right Out: 143.268 +/- 0.000

χ^2/NDF : 7095019787.5/32

Left In: 145.834 +/- 0.000

χ^2/NDF : 690172810.0/22

Left: 146.184 +/- 0.000

χ^2/NDF : 1110403123.5/47

Right: 143.861 +/- 0.000

χ^2/NDF : 10490848445.1/60

In: 145.208 +/- 0.000

χ^2/NDF : 4084136615.7/50

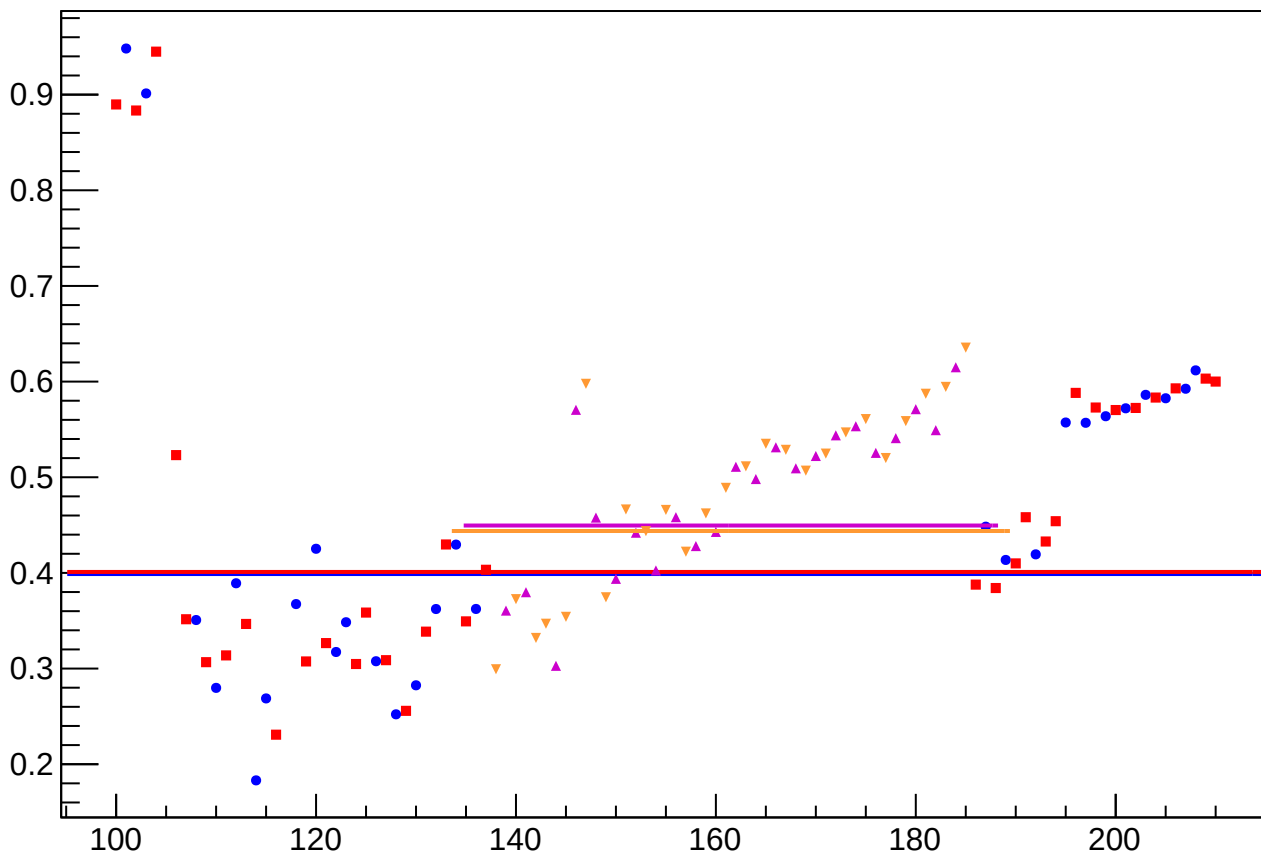
Out: 144.875 +/- 0.000

χ^2/NDF : 7955246246.1/57

All: 145.033 +/- 0.000

χ^2/NDF : 12048557582.0/100

yield_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 0.399 $\pm$ 0.000 χ^2/NDF : 2883886.5/27

Left Out: 0.444 $\pm$ 0.000 χ^2/NDF :1460383.7/24

Right Out: 0.401 $\pm$ 0.000 χ^2/NDF : 2834356.6/32

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

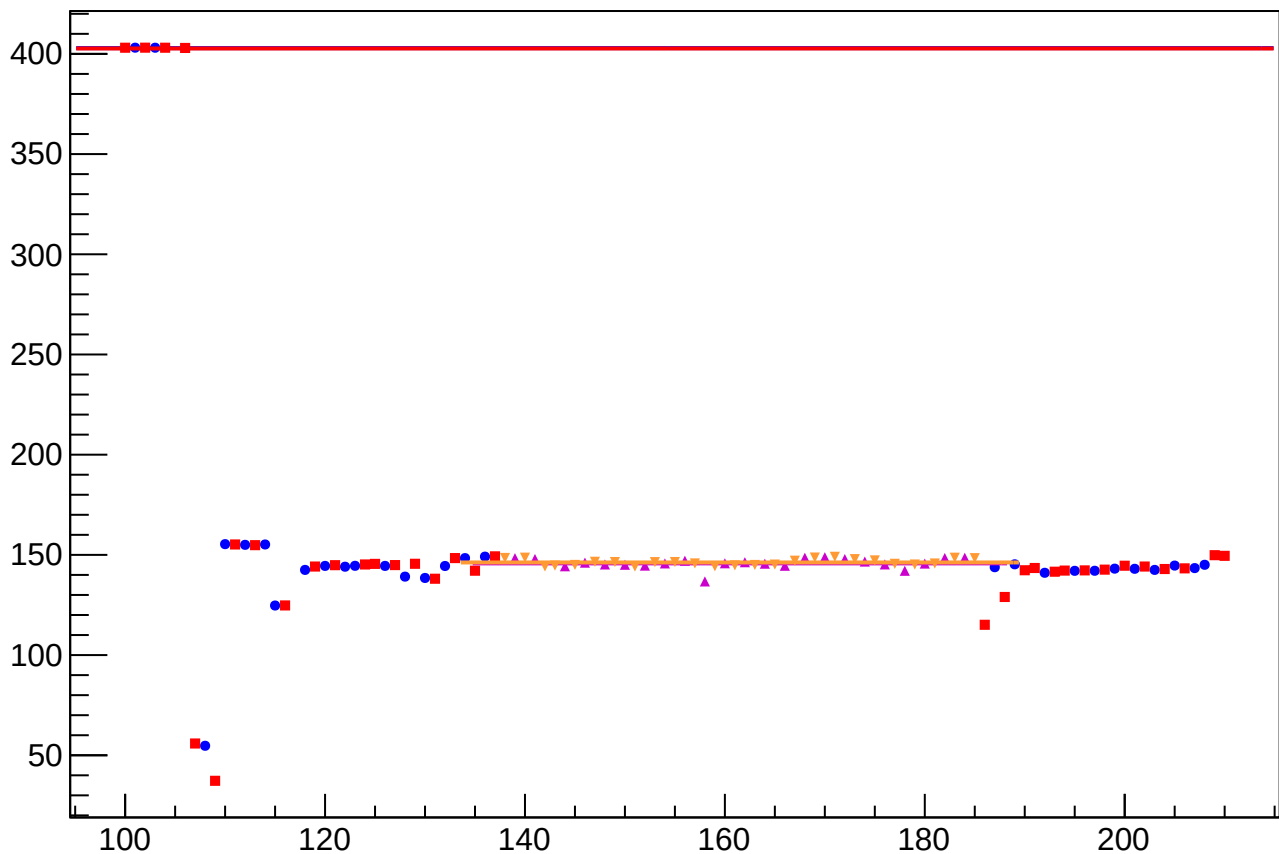
Right: 0.400 $\pm$ 0.000 χ^2/NDF : 5718635.0/60

In: 0.425 $\pm$ 0.000 χ^2/NDF :4178376.0/50

Out: 0.422 $\pm$ 0.000 χ^2/NDF :4454866.1/57

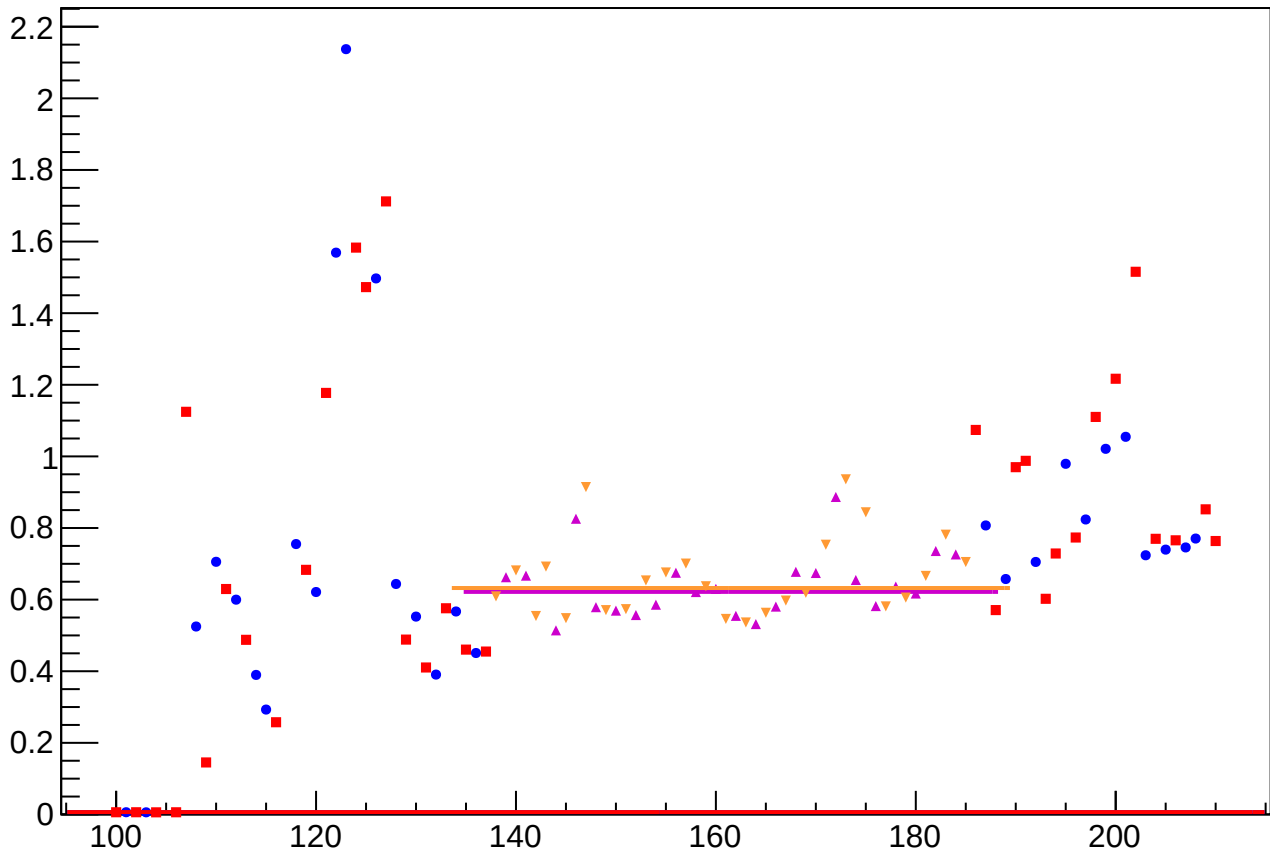
All: 0.423 $\pm$ 0.000 χ^2/NDF : 8634395.9/108

yield_cav4bQ_mean vs Slug, Sign Corrected



Right In: 402.876 $\pm$ 0.000	χ^2 /NDF: 1752170815469.0/27	Left: 145.987 $\pm$ 0.000	χ^2 /NDF: 295994641.0/47
Left Out: 146.216 $\pm$ 0.000	χ^2 /NDF: 86042286.3/24	Right: 402.784 $\pm$ 0.000	χ^2 /NDF: 5737678014435.9
Right Out: 402.703 $\pm$ 0.000	χ^2 /NDF: 3985012436150.0/32	In: 402.585 $\pm$ 0.000	χ^2 /NDF: 4082972732893.6/50
Left In: 145.755 $\pm$ 0.000	χ^2 /NDF: 206171532.0/22	Out: 402.443 $\pm$ 0.000	χ^2 /NDF: 6341955481236.3/50
		All: 402.510 $\pm$ 0.000	χ^2 /NDF: 104252647037.0

yield_cav4bQ_rms vs Slug, Sign Corrected



Right In: 0.007 $\pm$ 0.000 χ^2 /NDF: 21339507.9/27

Left Out: 0.632 $\pm$ 0.000 χ^2 /NDF:613604.5/24

Right Out: 0.007 $\pm$ 0.000 χ^2 /NDF: 24939016.7/32

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

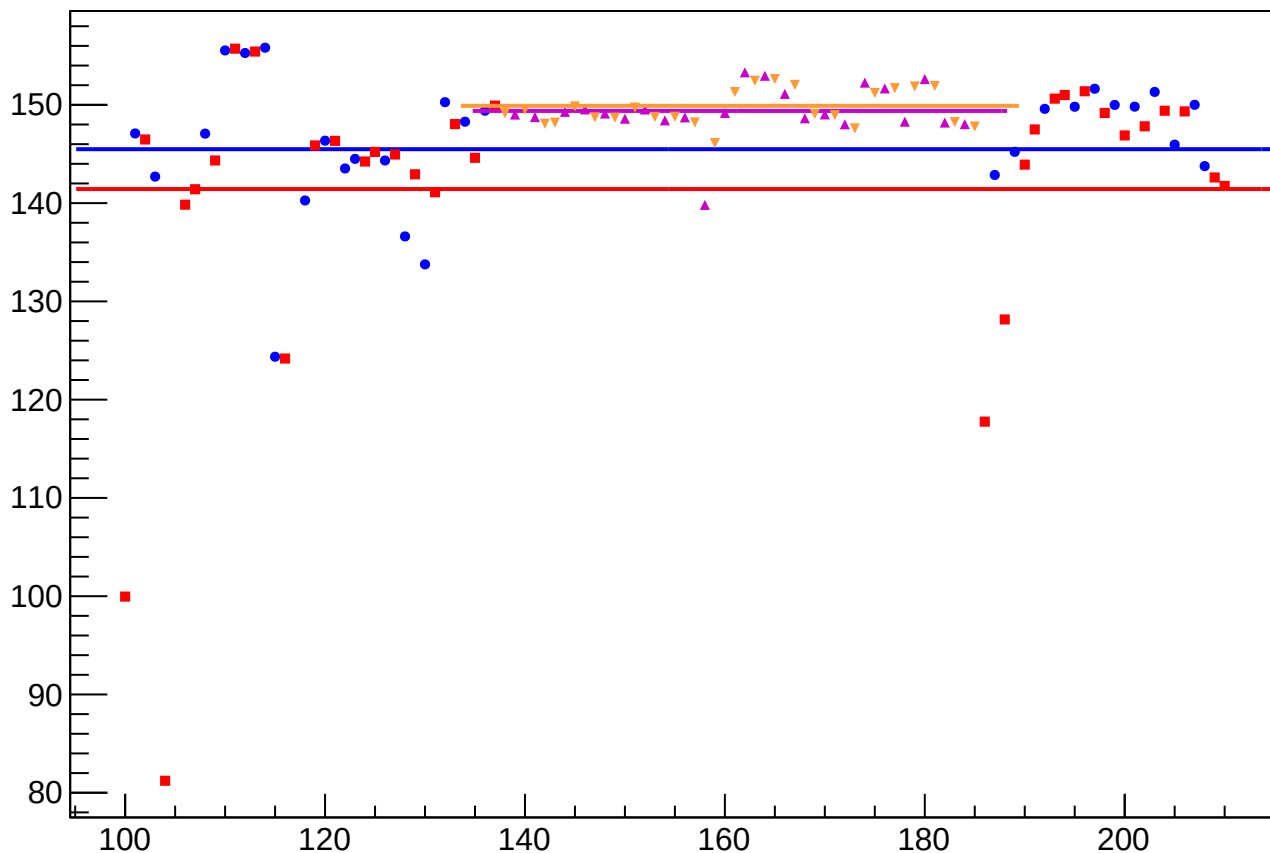
Right: 0.007 $\pm$ 0.000 χ^2 /NDF: 46278539.0/60

In: 0.007 $\pm$ 0.000 χ^2 /NDF:48408117.6/50

Out: 0.007 $\pm$ 0.000 χ^2 /NDF:53613959.2/57

All: 0.007 $\pm$ 0.000 χ^2 /NDF: 102022128.1/108

yield_cav4cQ_mean vs Slug, Sign Corrected



Right In: 145.488 $\pm$ 0.000

χ^2 /NDF: 1331995660.9/27

Left Out: 149.900 $\pm$ 0.000

χ^2 /NDF: 162845622.6/24

Right Out: 141.433 $\pm$ 0.000

χ^2 /NDF: 3249494901.4/32

Left In: 149.382 $\pm$ 0.000

χ^2 /NDF: 434657827.5/22

Left: 149.650 $\pm$ 0.000

χ^2 /NDF: 604081739.6/47

Right: 143.196 $\pm$ 0.000

χ^2 /NDF: 4791075082.8/60

In: 148.125 $\pm$ 0.000

χ^2 /NDF: 1998029233.5/50

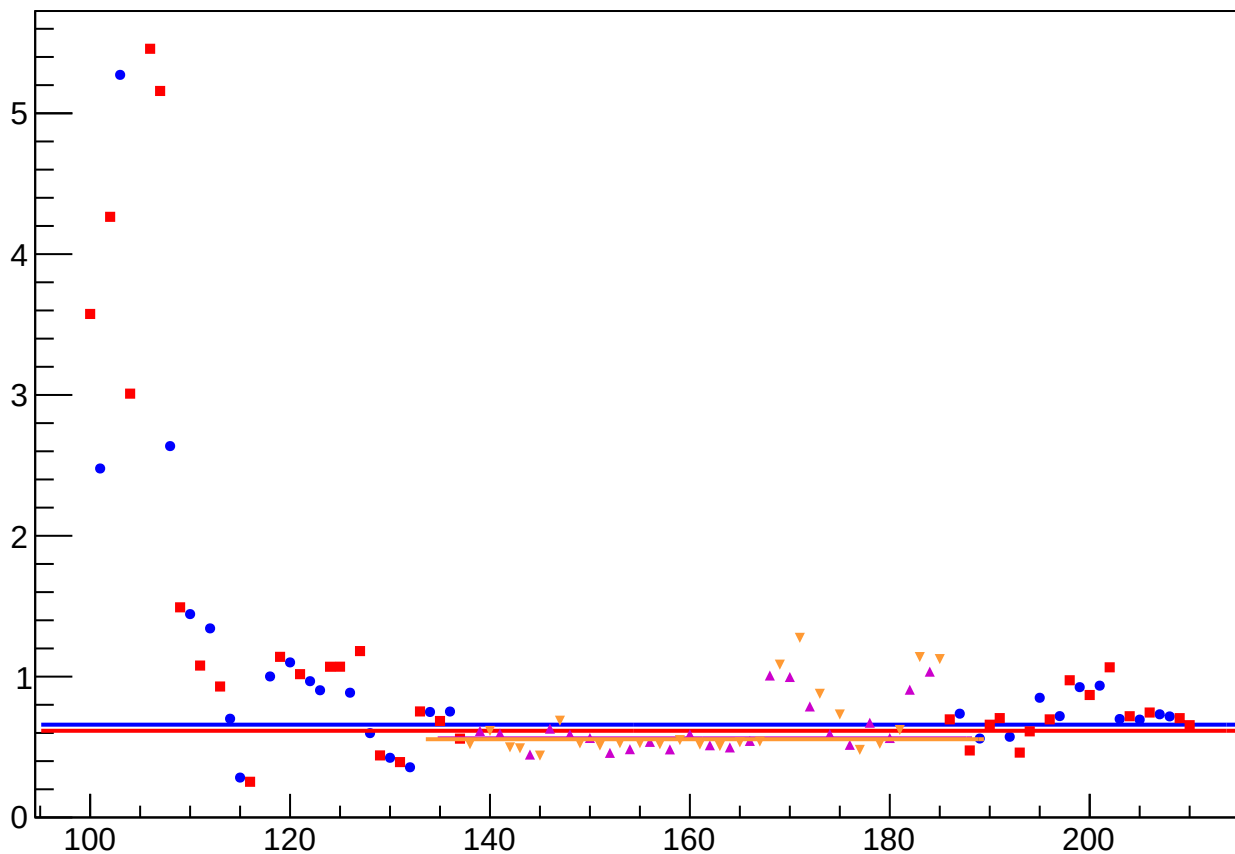
Out: 146.799 $\pm$ 0.000

χ^2 /NDF: 4744638342.4/57

All: 147.416 $\pm$ 0.000

χ^2 /NDF: 6808234175.9

yield_cav4cQ_rms vs Slug, Sign Corrected



Right In: 0.659 $\pm$ 0.000 χ^2 /NDF: 4014849.5/27

Left Out: 0.555 $\pm$ 0.000 χ^2 /NDF:1773688.1/24

Right Out: 0.615 $\pm$ 0.000 χ^2 /NDF: 5573392.2/32

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

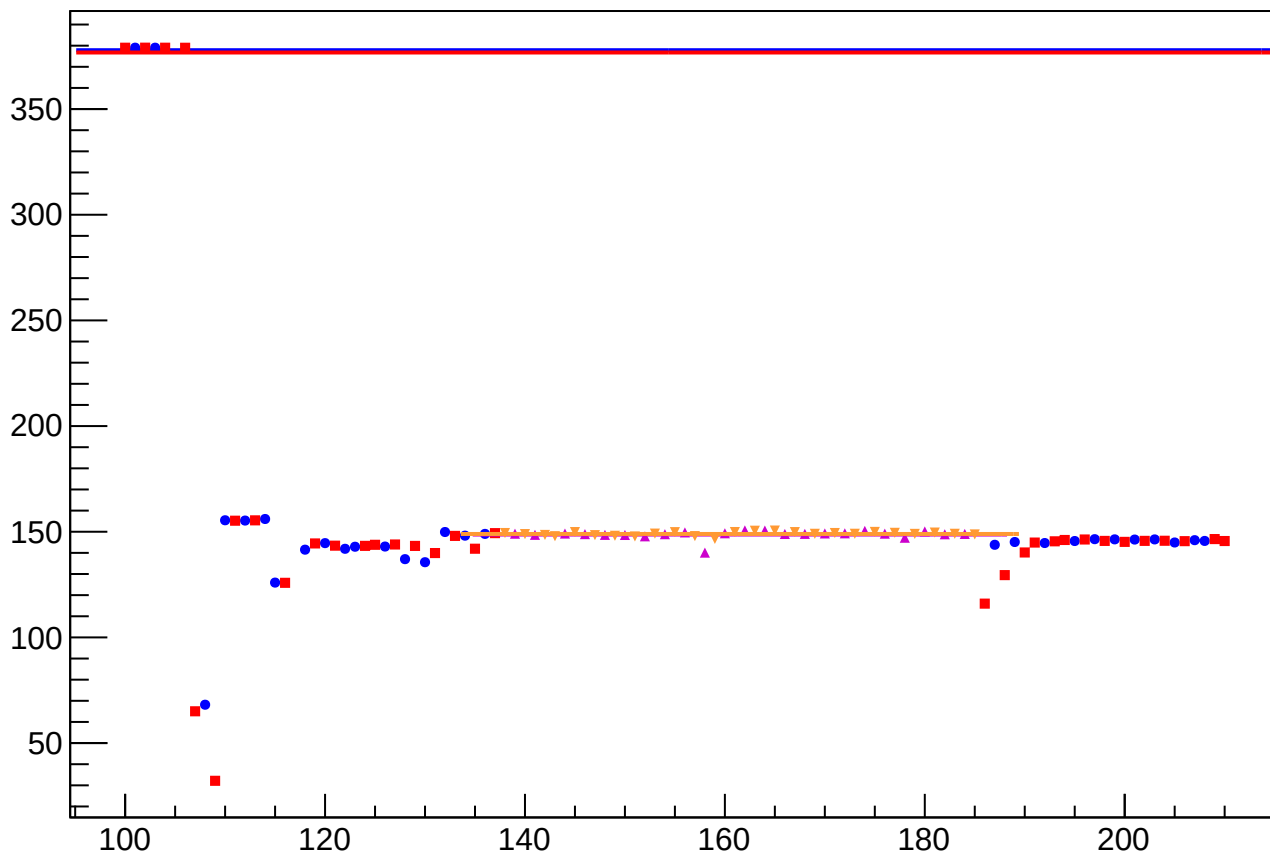
Right: 0.634 $\pm$ 0.000 χ^2 /NDF: 9636202.4/60

In: 0.593 $\pm$ 0.000 χ^2 /NDF:5608221.1/50

Out: 0.577 $\pm$ 0.000 χ^2 /NDF:7480890.8/57

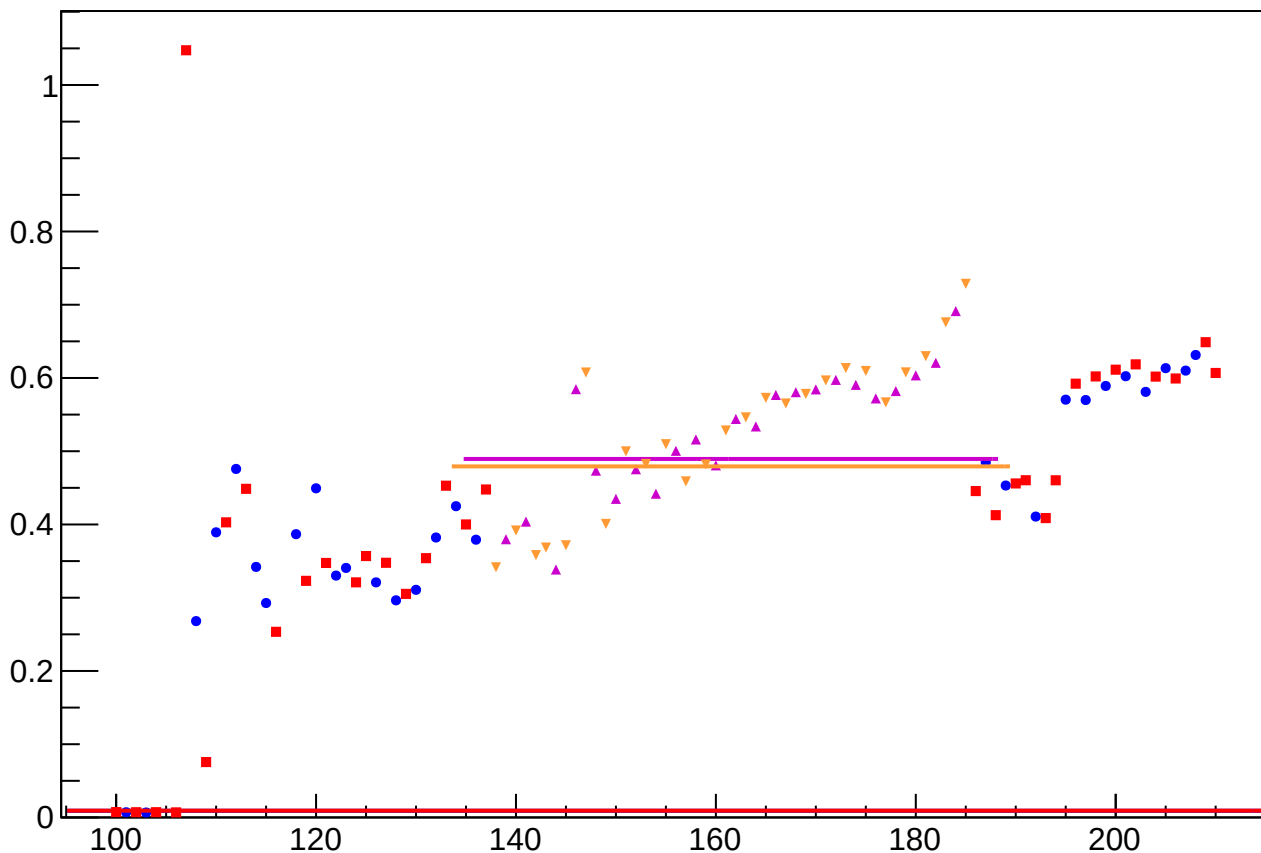
All: 0.585 $\pm$ 0.000 χ^2 /NDF: 13107387.9/108

yield_cav4dQ_mean vs Slug, Sign Corrected



Right In: 377.854+/-0.000	χ^2/NDF : 3835978443304.9/27	Left: 148.814+/-0.000	χ^2/NDF : 319467494.9/47
Left Out: 148.944+/-0.000	χ^2/NDF : 63976941.3/24	Right: 377.277+/-0.000	χ^2/NDF : 13984521027457.1
Right Out: 376.770+/-0.000	χ^2/NDF : 10140194997071.3/32	In: 376.685+/-0.000	χ^2/NDF : 7410368661667.7/50
Left In: 148.672+/-0.000	χ^2/NDF : 252846428.3/22	Out: 375.657+/-0.000	χ^2/NDF : 13998721055642.2
		All: 376.137+/-0.000	χ^2/NDF : 21416635118.3

yield_cav4dQ_rms vs Slug, Sign Corrected



Right In: 0.009+/-0.000 χ^2/NDF : 24237239.5/27

Left Out: 0.479+/-0.000 χ^2/NDF :1516566.1/24

Right Out: 0.009+/-0.000 χ^2/NDF : 27285444.5/32

Left In: 0.489+/-0.000 χ^2/NDF :1076134.2/22

Left: 0.484+/-0.000 χ^2/NDF : 2600075.4/47

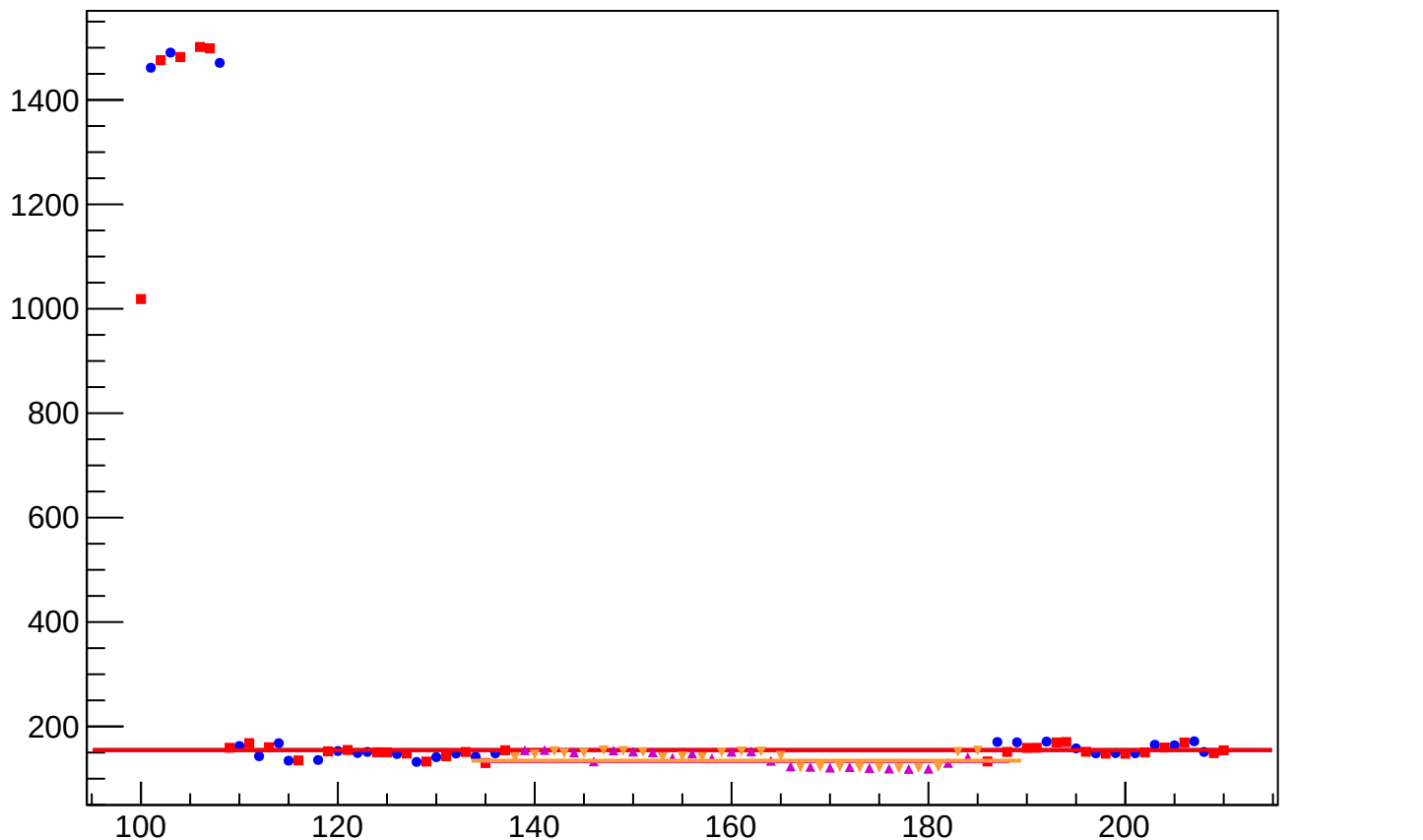
Right: 0.009+/-0.000 χ^2/NDF : 51523002.8/60

In: 0.012+/-0.000 χ^2/NDF :56715846.4/50

Out: 0.012+/-0.000 χ^2/NDF :61650127.6/57

All: 0.012+/-0.000 χ^2/NDF : 118365974.2/108

yield_bcm0l02_mean vs Slug, Sign Corrected



Right In: 154.908 $\pm$ 0.000 χ^2 /NDF: 25941899492.8/27

Left Out: 134.554 $\pm$ 0.000 χ^2 /NDF: 4376966869.3/24

Right Out: 154.691 $\pm$ 0.000 χ^2 /NDF: 35042212341.7/32

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

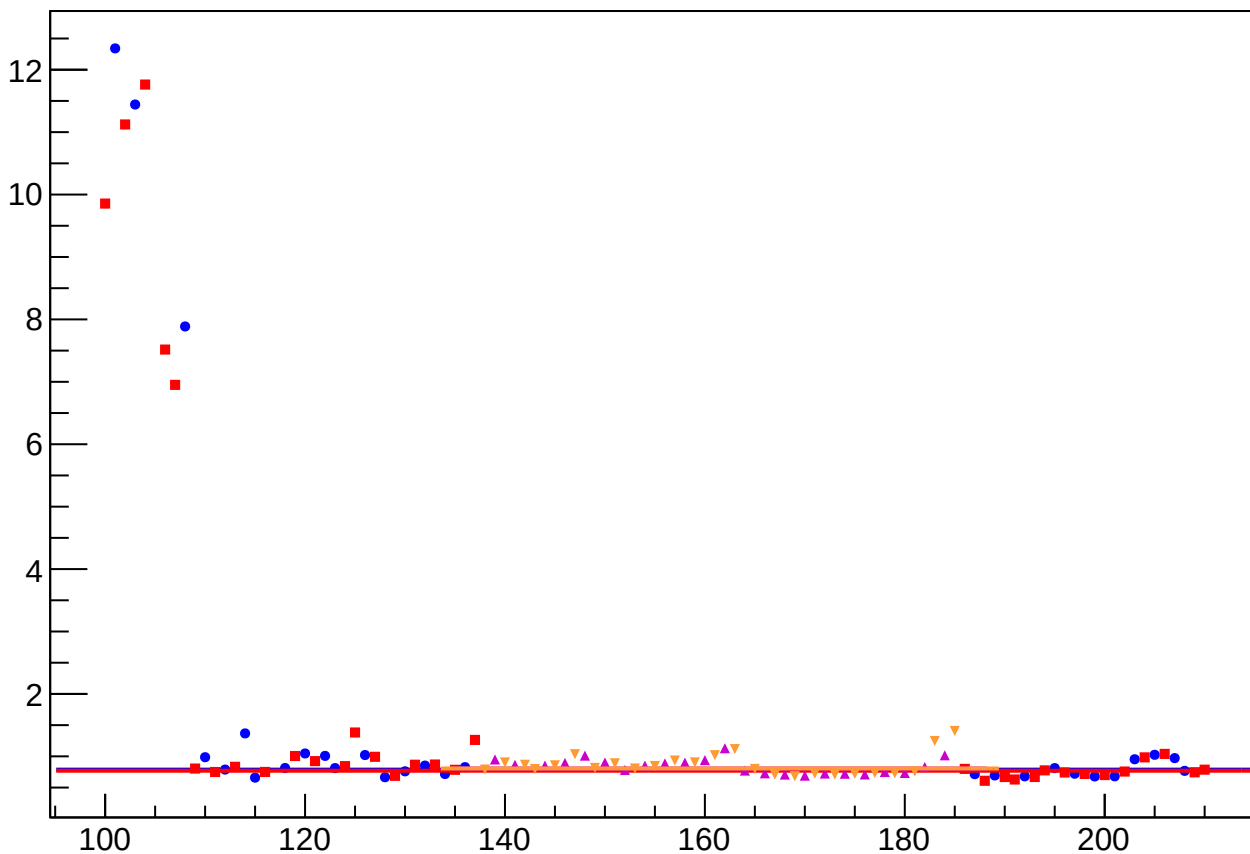
Right: 154.789 $\pm$ 0.000 χ^2 /NDF: 60984547400.2/60

In: 142.514 $\pm$ 0.000 χ^2 /NDF: 34747276098.4/50

Out: 143.895 $\pm$ 0.000 χ^2 /NDF: 43879737093.7/57

All: 143.243 $\pm$ 0.000 χ^2 /NDF: 78666835393.7/136

yield_bcm0l02_rms vs Slug, Sign Corrected



Right In: 0.787 $\pm$ 0.000 χ^2 /NDF: 3008112.8/27

Left Out: 0.806 $\pm$ 0.000 χ^2 /NDF:690578.5/24

Right Out: 0.770 $\pm$ 0.000 χ^2 /NDF: 3300100.3/32

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

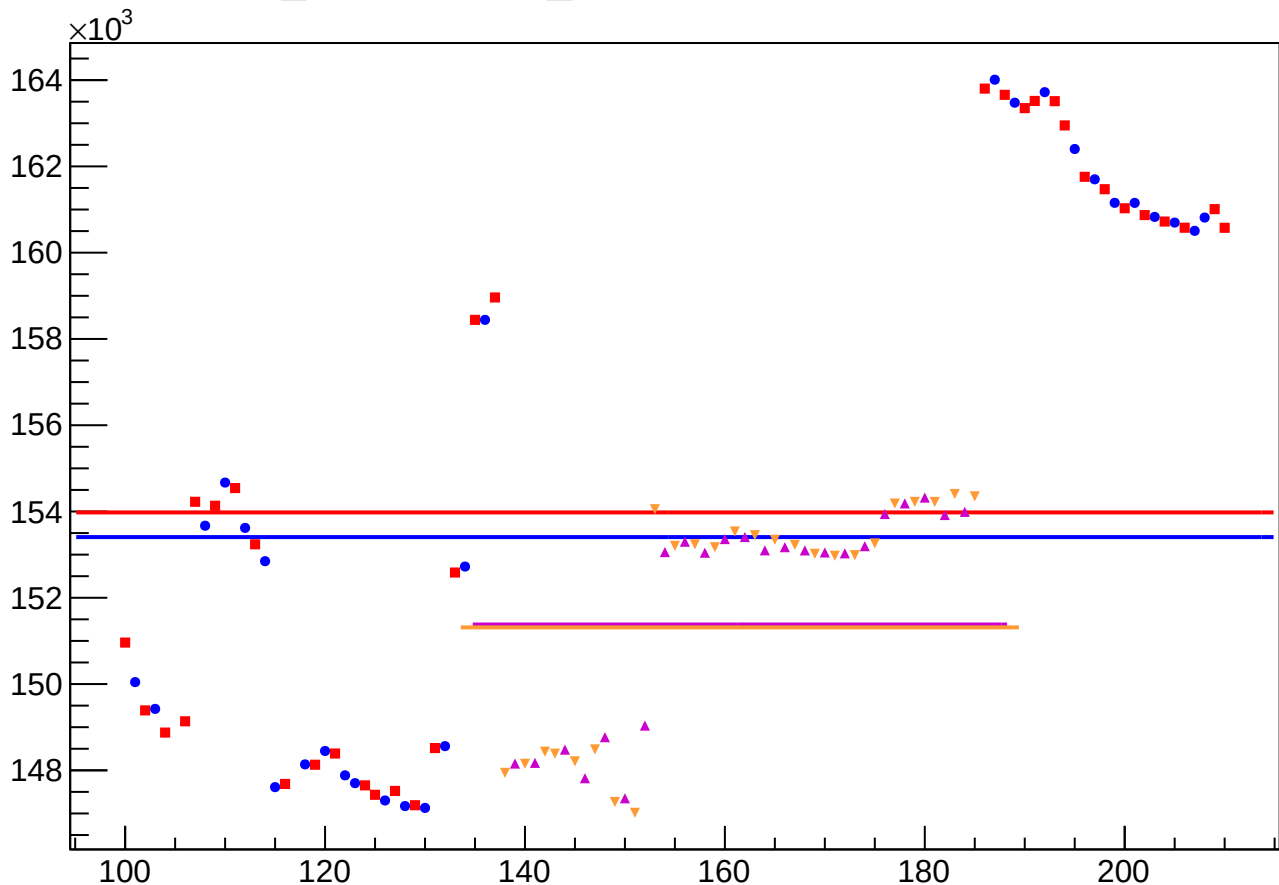
Right: 0.778 $\pm$ 0.000 χ^2 /NDF: 6313962.1/60

In: 0.797 $\pm$ 0.000 χ^2 /NDF:3494553.8/50

Out: 0.789 $\pm$ 0.000 χ^2 /NDF:4019960.9/57

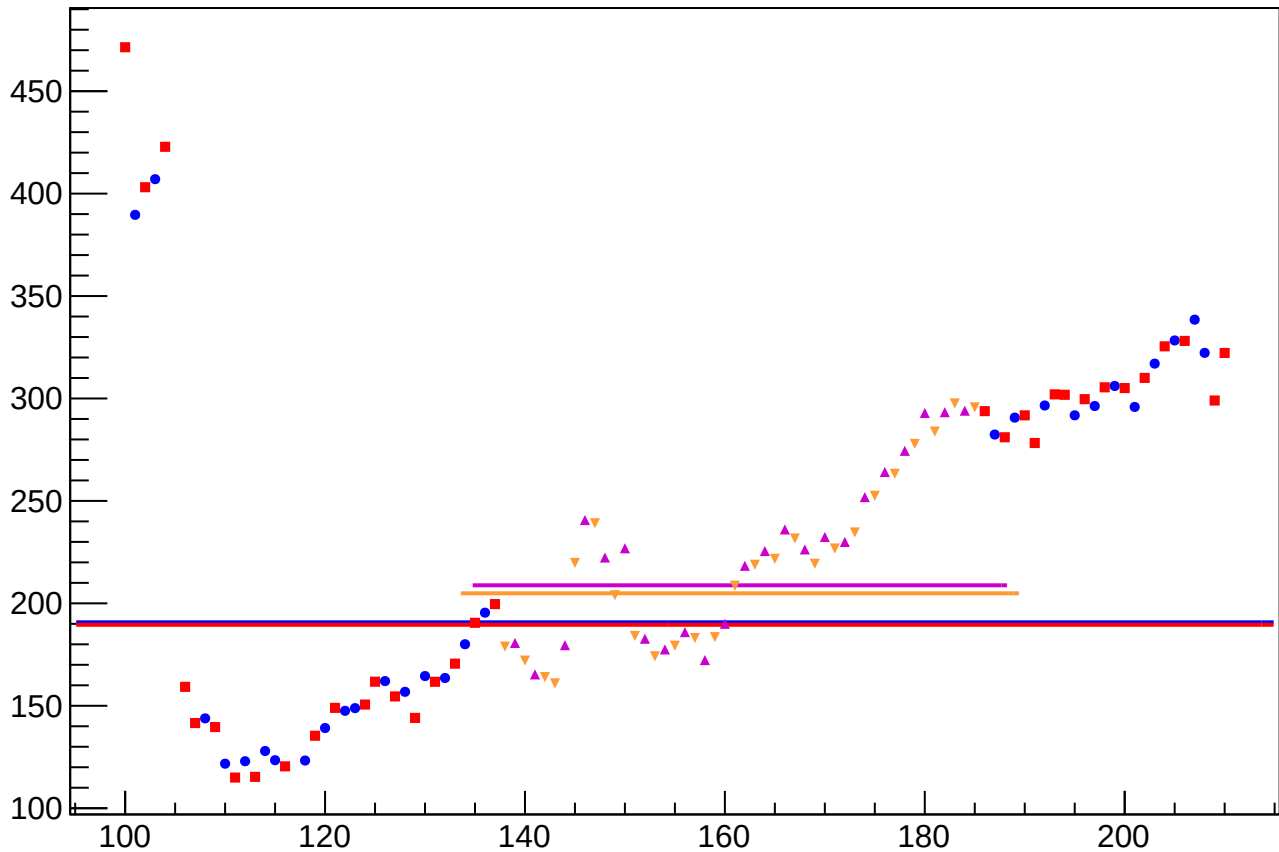
All: 0.793 $\pm$ 0.000 χ^2 /NDF: 7517275.4/108

yield_bpm0i01WS_mean vs Slug, Sign Corrected



Right In: 153406.781 $\pm$ 0.055	χ^2 /NDF: 10977859063.7/27	Left: 151345.082 $\pm$ 0.035	χ^2 /NDF: 5518562148.3/4
Left Out: 151313.284 $\pm$ 0.049	χ^2 /NDF: 3153768134.8/24	Right: 153712.242 $\pm$ 0.037	χ^2 /NDF: 23326050718.7
Right Out: 153978.818 $\pm$ 0.051	χ^2 /NDF: 12289968129.5/32	In: 152324.873 $\pm$ 0.037	χ^2 /NDF: 14072327065.3/5
Left In: 151380.236 $\pm$ 0.051	χ^2 /NDF: 2363895785.3/22	Out: 152579.556 $\pm$ 0.035	χ^2 /NDF: 16867825040.7
		All: 152459.669 $\pm$ 0.026	χ^2 /NDF: 309646925

yield_bpm0i01WS_rms vs Slug, Sign Corrected



Right In: 190.746+/-0.039 χ^2/NDF : 4117286.0/27

Left Out: 204.900+/-0.034 χ^2/NDF : 1056380.8/24

Right Out: 189.536+/-0.036 χ^2/NDF : 4831179.0/32

Left In: 208.813+/-0.036 χ^2/NDF : 1001936.6/22

Left: 206.758+/-0.025 χ^2/NDF : 2064453.9/47

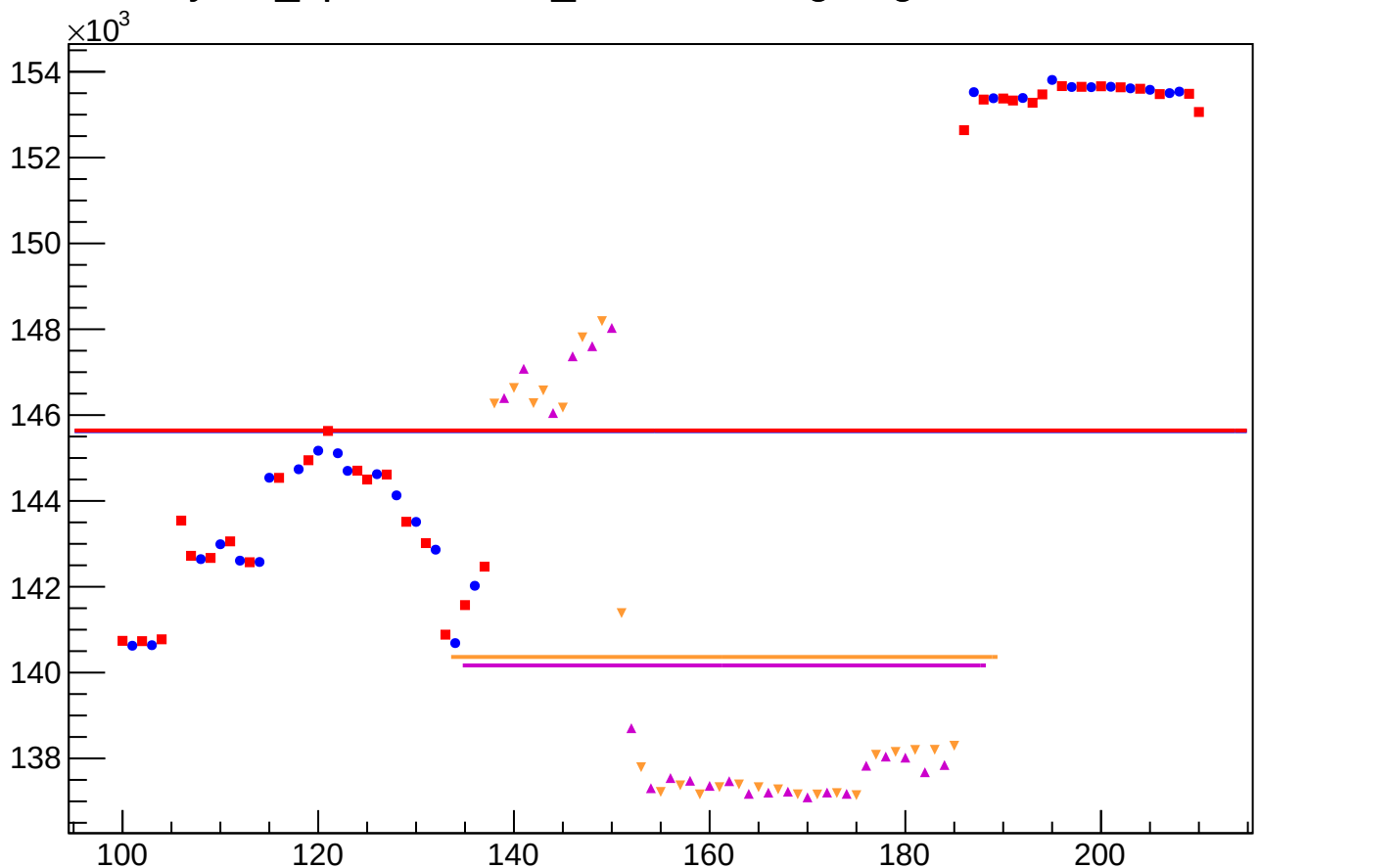
Right: 190.100+/-0.026 χ^2/NDF : 8948986.2/60

In: 200.391+/-0.026 χ^2/NDF : 5235347.8/50

Out: 197.601+/-0.025 χ^2/NDF : 5982181.4/57

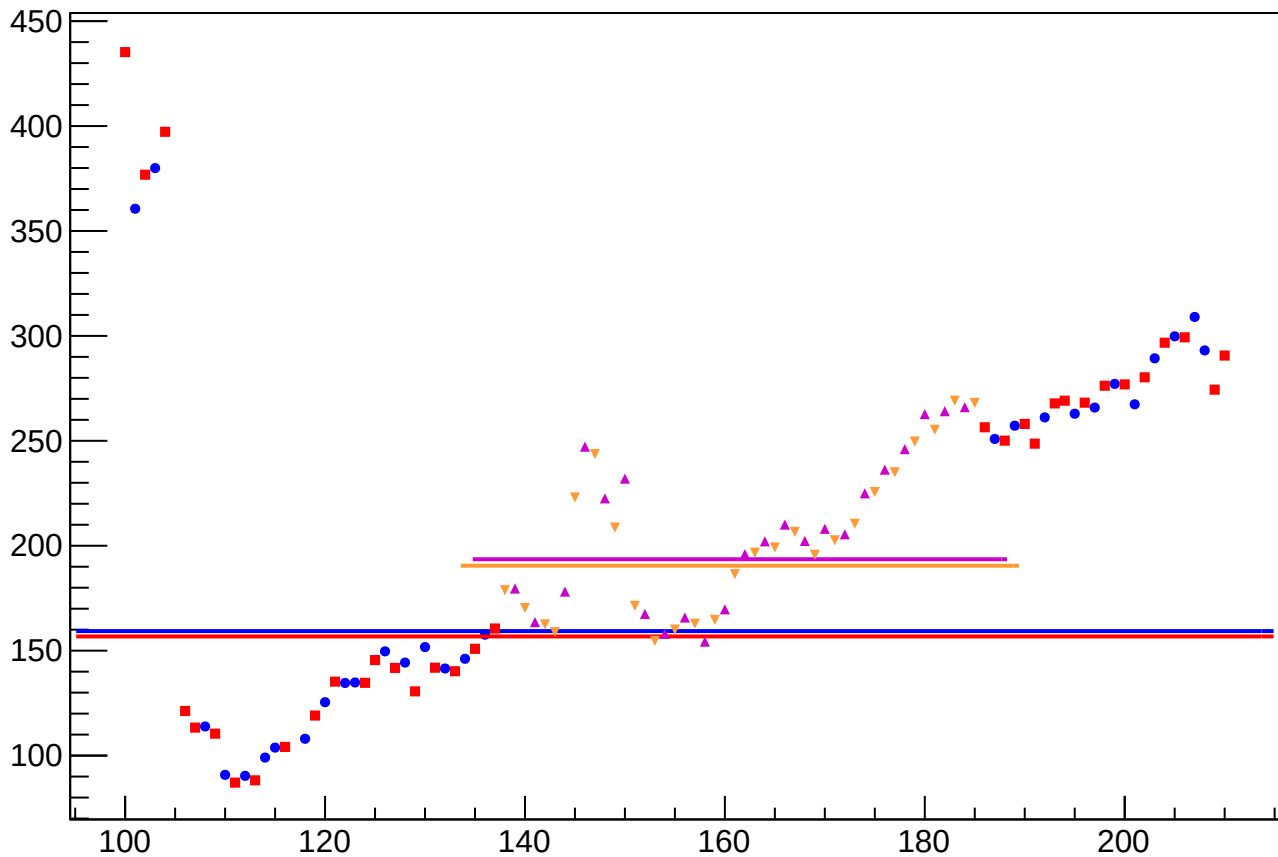
All: 198.914+/-0.018 χ^2/NDF : 11223420.5/100

yield_bpm0i01aWS_mean vs Slug, Sign Corrected



Right In: 145625.854 $\pm$ 0.047	χ^2 /NDF: 8715622355.1/27	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: 145634.494 $\pm$ 0.032	χ^2 /NDF: 19255254225.0
Right Out: 145641.850 $\pm$ 0.043	χ^2 /NDF: 10539568330.7/32	In: 142943.706 $\pm$ 0.033	χ^2 /NDF: 23476593356.7/5
Left In: 140166.971 $\pm$ 0.047	χ^2 /NDF: 8028464654.6/22	Out: 143133.743 $\pm$ 0.031	χ^2 /NDF: 26364362120.9/
		All: 143044.874 $\pm$ 0.023	χ^2 /NDF: 498583350

yield_bpm0i01aWS_rms vs Slug, Sign Corrected



Right In: 159.326+/-0.033 χ^2/NDF : 5035258.4/27

Left Out: 190.486+/-0.032 χ^2/NDF : 950233.2/24

Right Out: 156.779+/-0.030 χ^2/NDF : 5926610.7/32

Left In: 193.558+/-0.034 χ^2/NDF : 963675.0/22

Left: 191.948+/-0.023 χ^2/NDF : 1918302.4/47

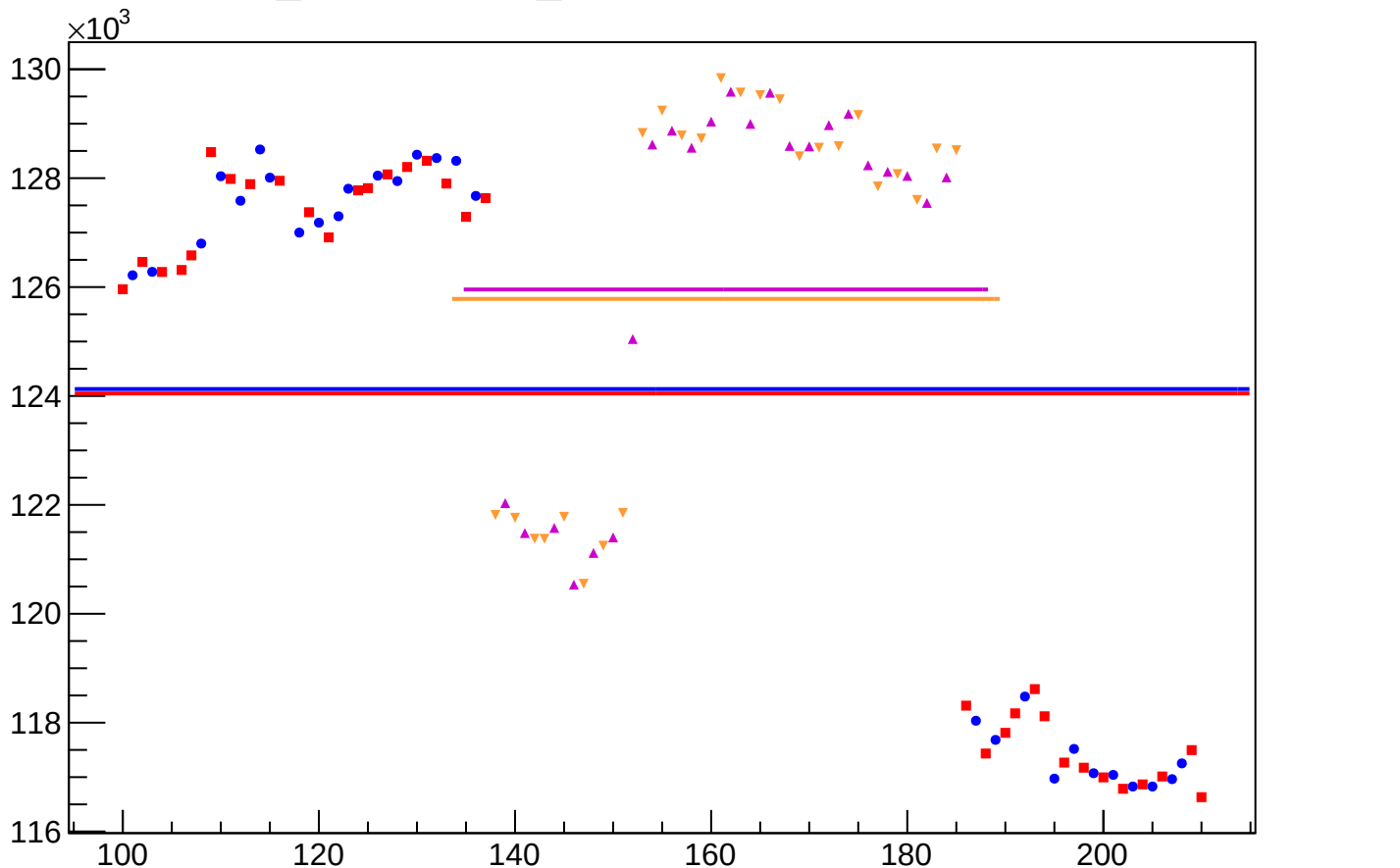
Right: 157.950+/-0.022 χ^2/NDF : 10965090.8/60

In: 176.146+/-0.024 χ^2/NDF : 6528436.0/50

Out: 172.798+/-0.022 χ^2/NDF : 7460005.0/57

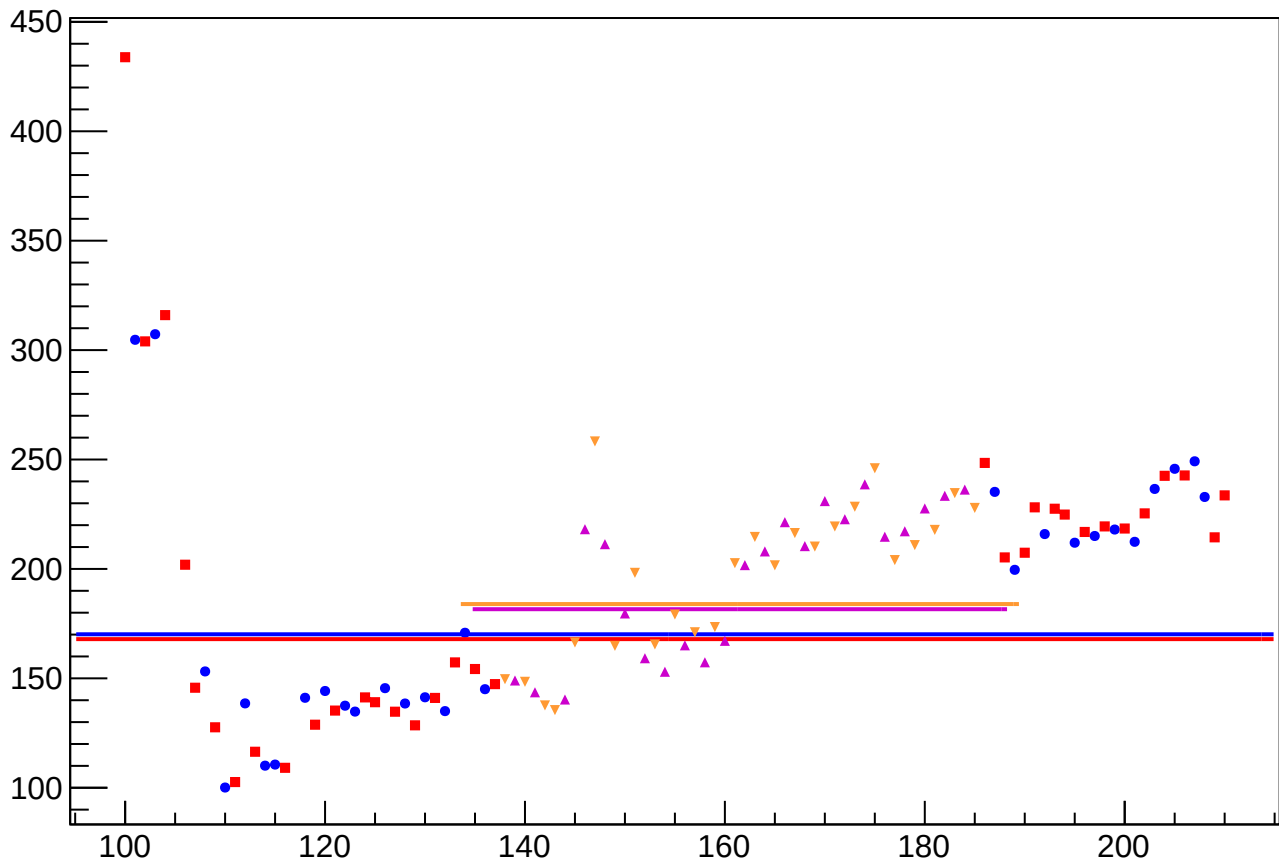
All: 174.364+/-0.016 χ^2/NDF : 13999223.7/10

yield_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: 124127.207 $\pm$ 0.047	χ^2/NDF : 11137146761.5/27	Left: 125867.639 $\pm$ 0.031	χ^2/NDF : 12541428458.9/24
Left Out: 125782.764 $\pm$ 0.044	χ^2/NDF : 6729761889.8/24	Right: 124083.502 $\pm$ 0.032	χ^2/NDF : 24057621091.7/24
Right Out: 124045.830 $\pm$ 0.044	χ^2/NDF : 12918872774.0/32	In: 125087.510 $\pm$ 0.032	χ^2/NDF : 17731905875.7/32
Left In: 125955.637 $\pm$ 0.045	χ^2/NDF : 5804088930.1/22	Out: 124909.315 $\pm$ 0.031	χ^2/NDF : 20432151650.8/22
		All: 124994.358 $\pm$ 0.022	χ^2/NDF : 381798005.0/22

yield_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 170.133+/-0.033 χ^2/NDF : 2212982.3/27

Left Out: 183.947+/-0.031 χ^2/NDF : 1123194.0/24

Right Out: 167.921+/-0.031 χ^2/NDF : 2806811.7/32

Left In: 181.596+/-0.032 χ^2/NDF : 1103524.3/22

Left: 182.792+/-0.022 χ^2/NDF : 2229521.2/47

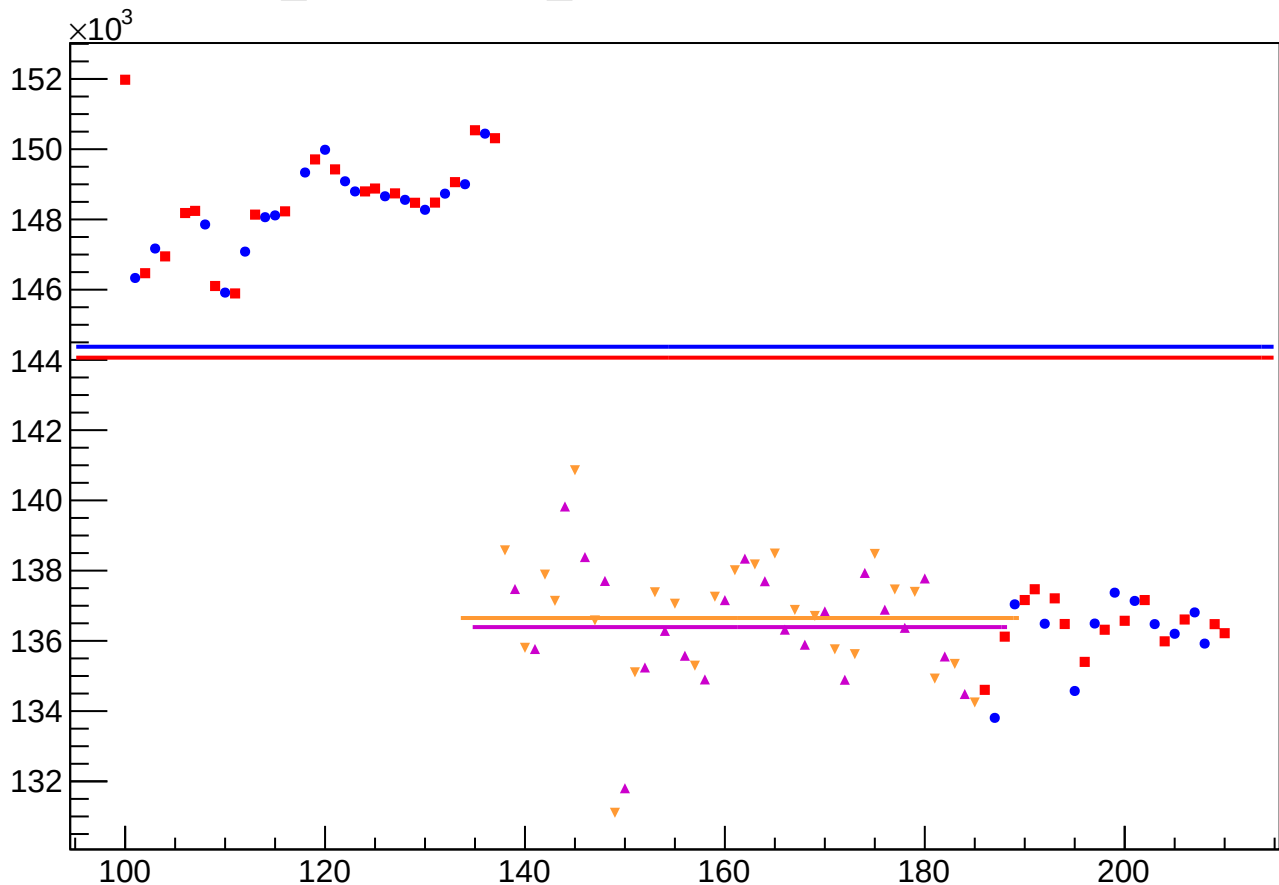
Right: 168.945+/-0.023 χ^2/NDF : 5022159.7/60

In: 176.153+/-0.023 χ^2/NDF : 3378658.2/50

Out: 175.888+/-0.022 χ^2/NDF : 4063396.2/57

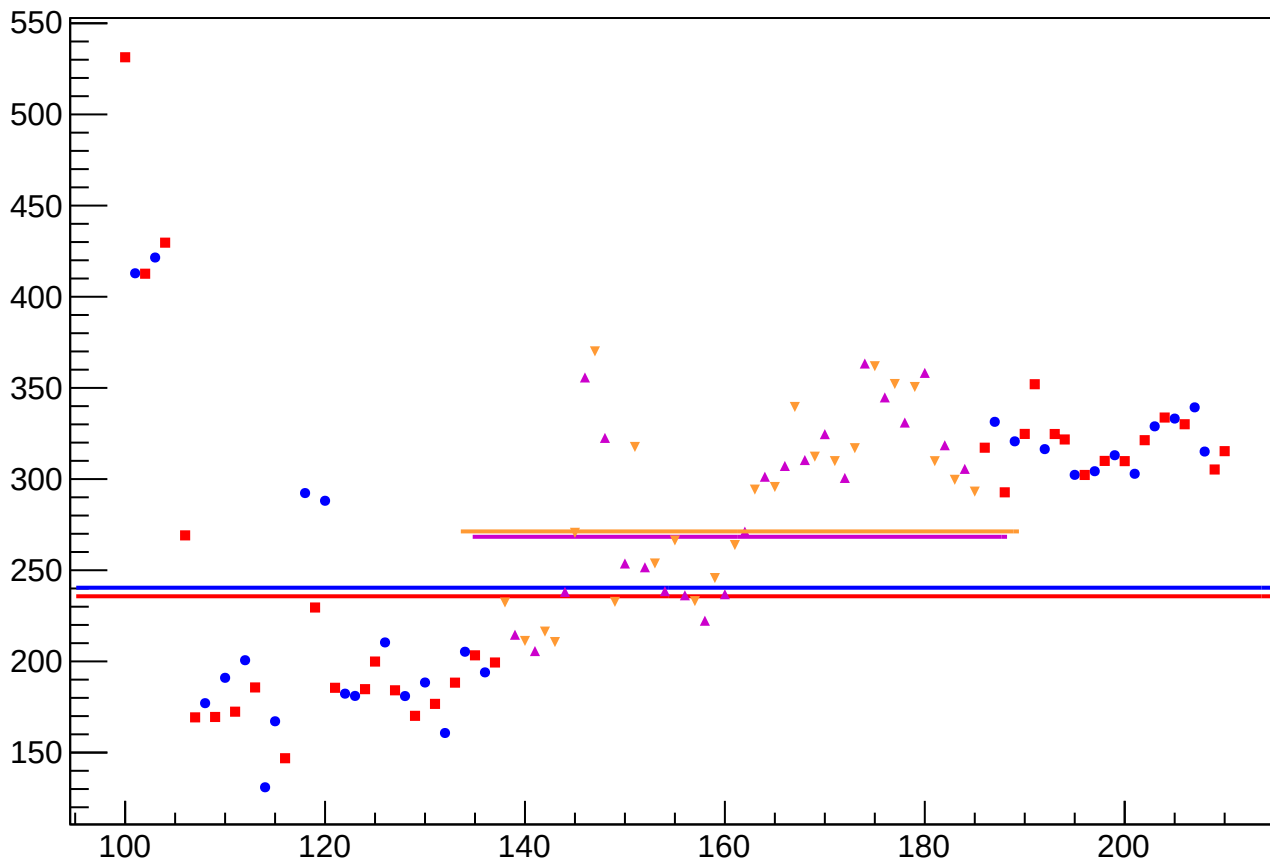
All: 176.015+/-0.016 χ^2/NDF : 7442124.1/108

yield_bpm0l02WS_mean vs Slug, Sign Corrected



Right In: 144375.156+/-0.067	χ^2/NDF : 7723916429.5/27	Left: 136524.219+/-0.046	χ^2/NDF : 1640486942.5/4
Left Out: 136650.935+/-0.065	χ^2/NDF : 930649595.5/24	Right: 144206.926+/-0.045	χ^2/NDF : 16711986325.1
Right Out: 144064.449+/-0.061	χ^2/NDF : 8976333312.9/32	In: 140337.447+/-0.047	χ^2/NDF : 15663365794.3/5
Left In: 136392.188+/-0.066	χ^2/NDF : 701986841.4/22	Out: 140546.404+/-0.045	χ^2/NDF : 16821650452.1
		All: 140447.398+/-0.032	χ^2/NDF : 324954545

yield_bpm0l02WS_rms vs Slug, Sign Corrected



Right In: 240.420 $\pm$ 0.047 χ^2 /NDF: 2330444.6/27

Left Out: 271.295 $\pm$ 0.046 χ^2 /NDF:1064485.7/24

Right Out: 235.715 $\pm$ 0.043 χ^2 /NDF: 2718708.3/32

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

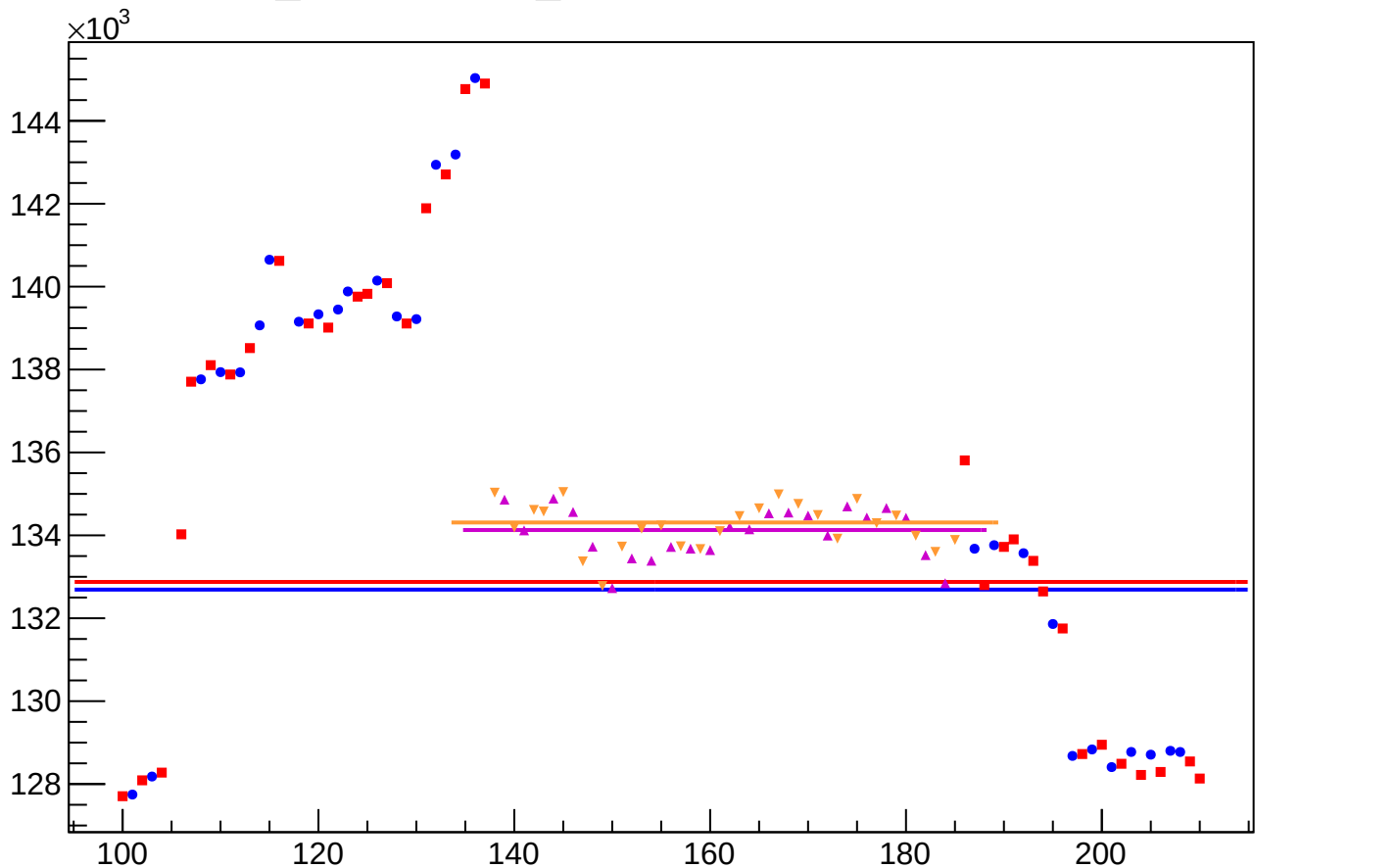
Right: 237.872 $\pm$ 0.032 χ^2 /NDF: 5054535.8/60

In: 254.543 $\pm$ 0.033 χ^2 /NDF:3584915.5/50

Out: 252.599 $\pm$ 0.031 χ^2 /NDF:4101744.4/57

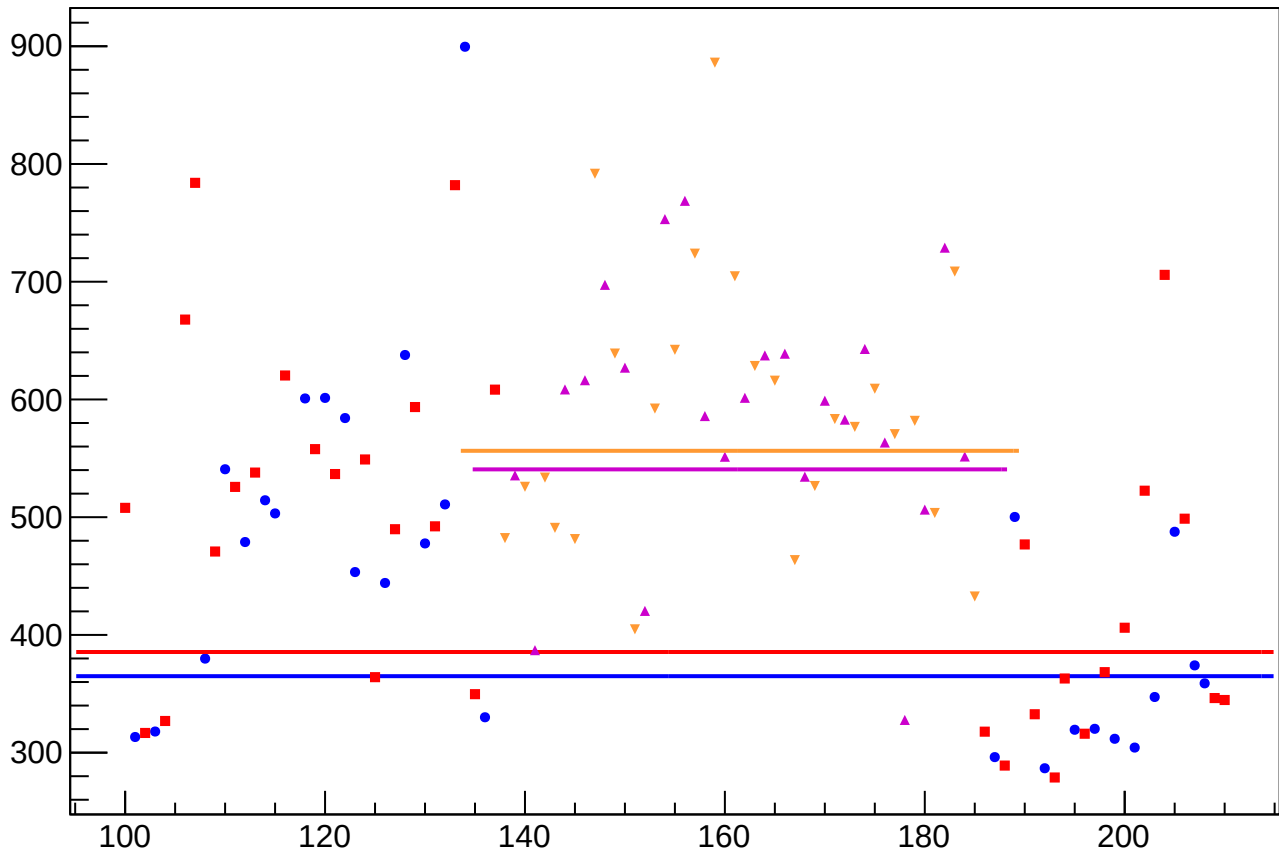
All: 253.520 $\pm$ 0.023 χ^2 /NDF: 7688467.2/108

yield_bpm0l03WS_mean vs Slug, Sign Corrected



Right In: 132690.822 $\pm$ 0.109	χ^2 /NDF: 2566152579.9/27	Left: 134221.438 $\pm$ 0.099	χ^2 /NDF: 31894688.0/47
Left Out: 134310.250 $\pm$ 0.139	χ^2 /NDF: 15518632.9/24	Right: 132783.095 $\pm$ 0.077	χ^2 /NDF: 4408831018.7/
Right Out: 132876.156 $\pm$ 0.109	χ^2 /NDF: 1841230104.2/32	In: 133221.716 $\pm$ 0.086	χ^2 /NDF: 2646312485.9/50
Left In: 134128.172 $\pm$ 0.142	χ^2 /NDF: 15533736.2/22	Out: 133425.170 $\pm$ 0.086	χ^2 /NDF: 1922864908.3/5
		All: 133324.109 $\pm$ 0.061	χ^2 /NDF: 457197504

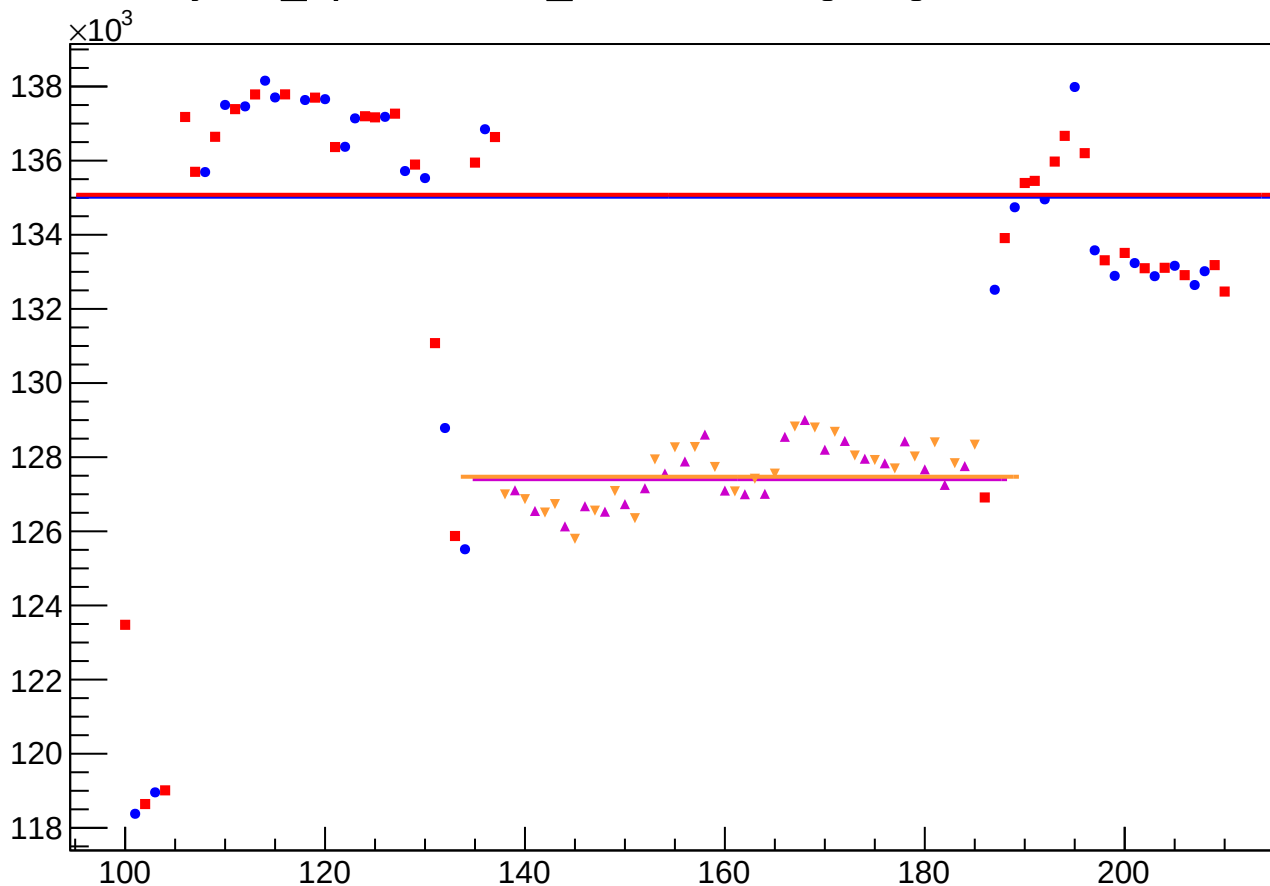
yield_bpm0l03WS_rms vs Slug, Sign Corrected



Right In: 364.964 $\pm$ 0.077 χ^2/NDF : 1337809.9/27
 Left Out: 556.381 $\pm$ 0.098 χ^2/NDF :1002064.0/24
 Right Out: 385.495 $\pm$ 0.077 χ^2/NDF : 1933891.6/32
 Left In: 540.607 $\pm$ 0.100 χ^2/NDF :1409015.2/22

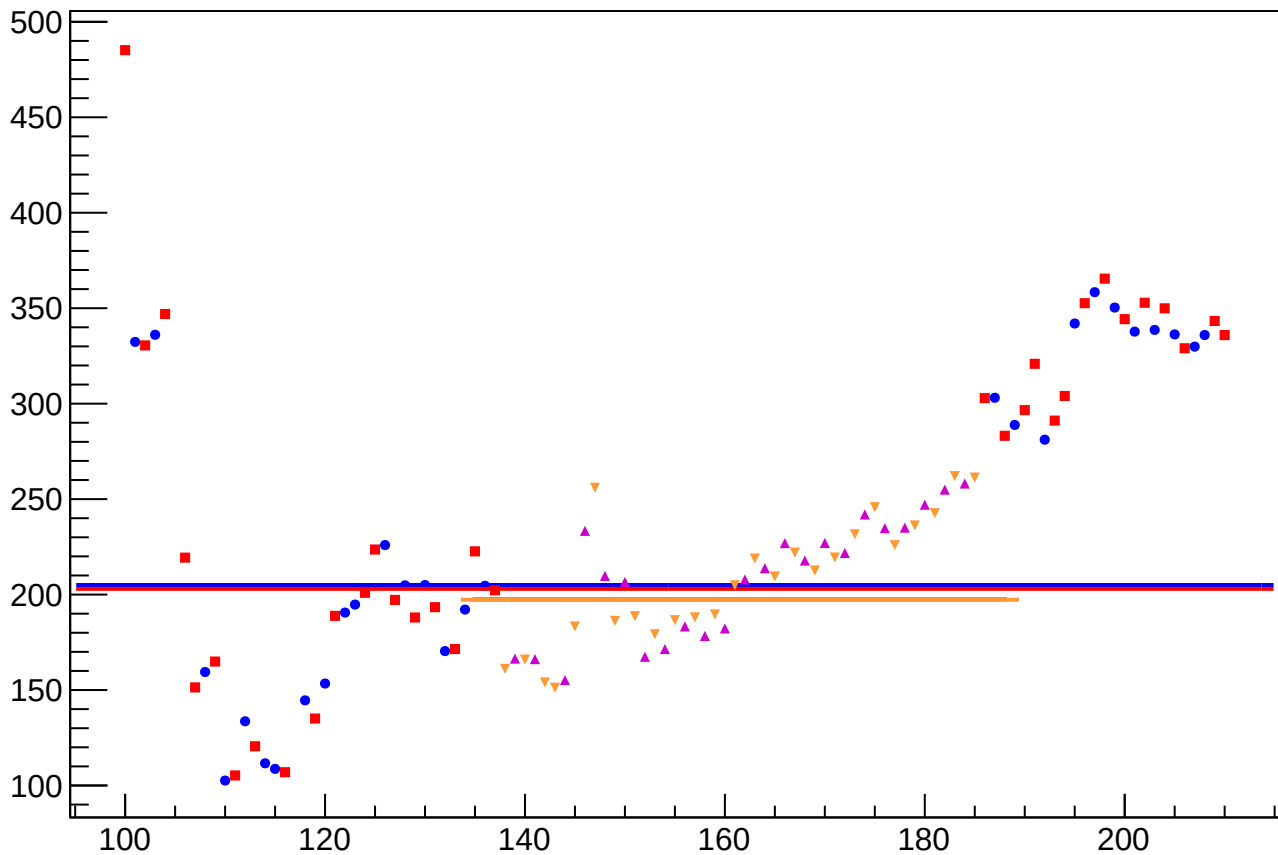
Left: 548.687 $\pm$ 0.070 χ^2/NDF : 2423723.9/47
 Right: 375.186 $\pm$ 0.054 χ^2/NDF : 3307250.0/60
 In: 429.839 $\pm$ 0.061 χ^2/NDF :4676899.0/50
 Out: 450.916 $\pm$ 0.061 χ^2/NDF :4813524.2/57
 All: 440.446 $\pm$ 0.043 χ^2/NDF : 9550471.8/108

yield_bpm0l04WS_mean vs Slug, Sign Corrected



Right In: 135027.393+/-0.059	χ^2/NDF : 4864867878.4/27	Left: 127440.757+/-0.034	χ^2/NDF : 574486725.7/47
Left Out: 127472.525+/-0.047	χ^2/NDF : 303609315.6/24	Right: 135055.003+/-0.040	χ^2/NDF : 10143790256.8/24
Right Out: 135078.969+/-0.055	χ^2/NDF : 5278515191.0/32	In: 130461.014+/-0.037	χ^2/NDF : 15085074808.4/5
Left In: 127406.911+/-0.048	χ^2/NDF : 269927988.0/22	Out: 130664.909+/-0.036	χ^2/NDF : 16642517720.5/22
		All: 130567.821+/-0.026	χ^2/NDF : 317431303.0/22

yield_bpm0l04WS_rms vs Slug, Sign Corrected



Right In: 205.016 $\pm$ 0.042 χ^2 /NDF: 4149456.9/27

Left Out: 197.289 $\pm$ 0.033 χ^2 /NDF: 852024.1/24

Right Out: 202.999 $\pm$ 0.039 χ^2 /NDF: 5021380.9/32

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

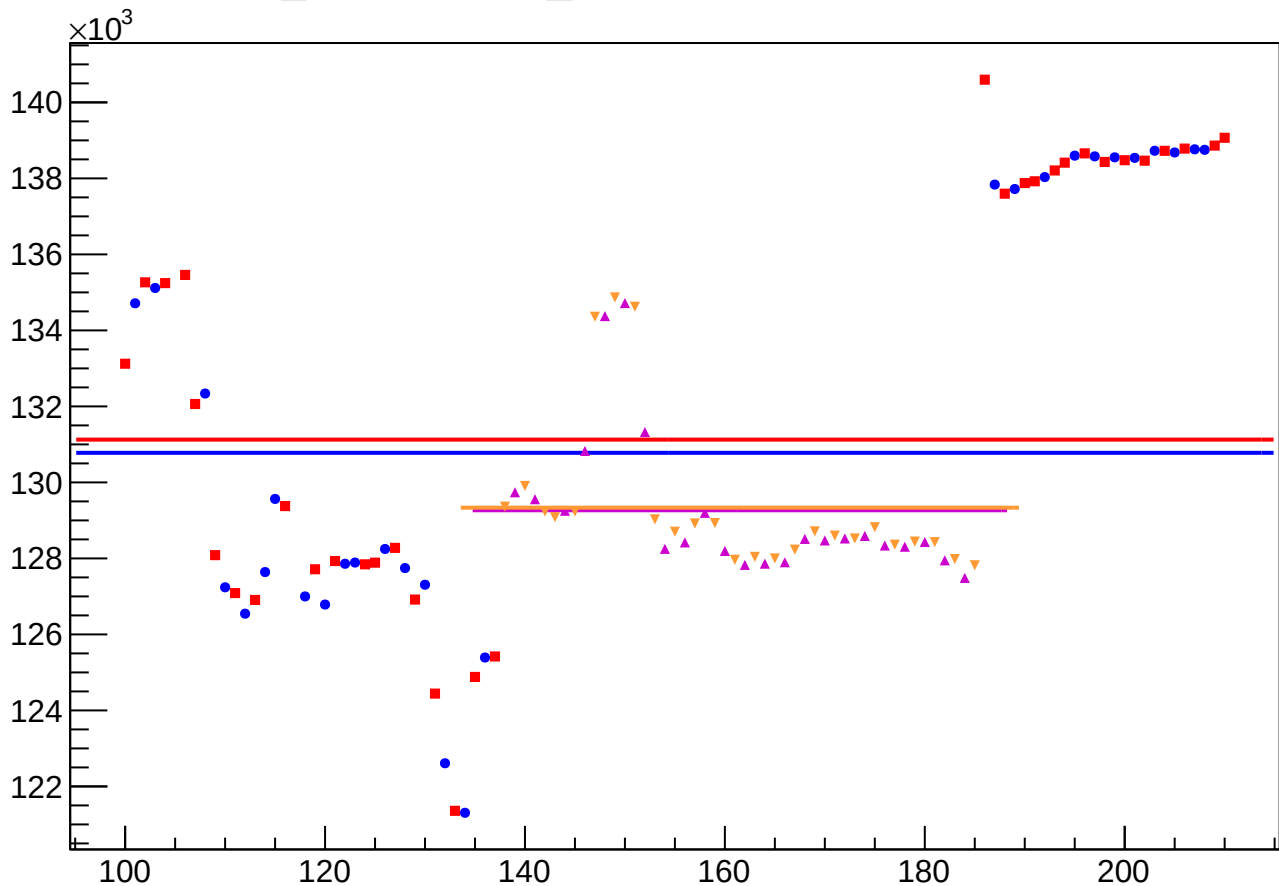
Right: 203.936 $\pm$ 0.029 χ^2 /NDF: 9172083.5/60

In: 200.495 $\pm$ 0.026 χ^2 /NDF: 4960541.6/50

Out: 199.685 $\pm$ 0.025 χ^2 /NDF: 5885867.6/57

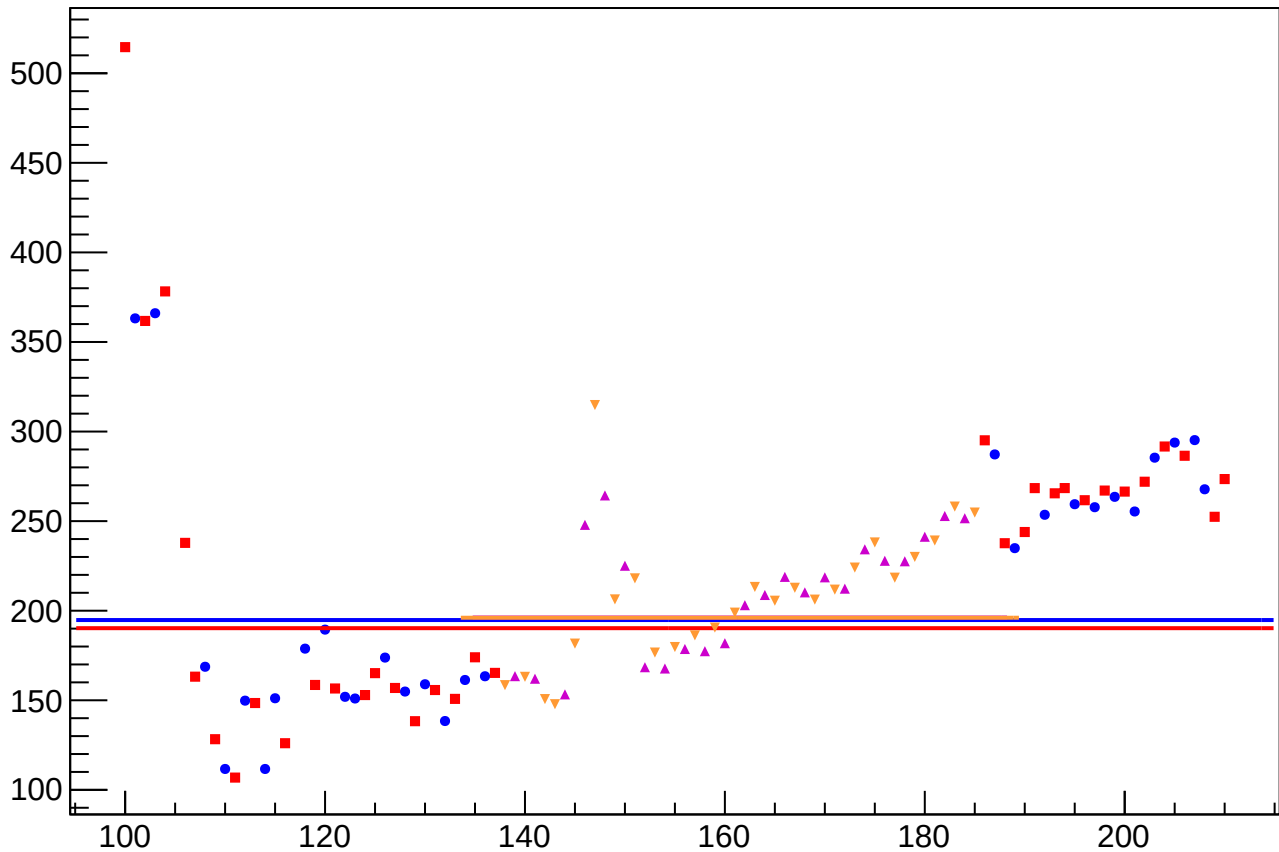
All: 200.071 $\pm$ 0.018 χ^2 /NDF: 10846898.9/100

yield_bpm0l05WS_mean vs Slug, Sign Corrected



Right In: 130778.592 $\pm$ 0.055	χ^2 /NDF: 11247641969.6/27	Left: 129302.466 $\pm$ 0.034	χ^2 /NDF: 2665755007.2/24
Left Out: 129335.946 $\pm$ 0.047	χ^2 /NDF: 1450933621.0/24	Right: 130966.876 $\pm$ 0.037	χ^2 /NDF: 24176765488.5/24
Right Out: 131126.319 $\pm$ 0.050	χ^2 /NDF: 12907177601.1/32	In: 129928.031 $\pm$ 0.036	χ^2 /NDF: 12892395248.7/5
Left In: 129266.909 $\pm$ 0.048	χ^2 /NDF: 1213762773.1/22	Out: 130165.956 $\pm$ 0.034	χ^2 /NDF: 15038708027.9/22
		All: 130053.409 $\pm$ 0.025	χ^2 /NDF: 279539668.0/22

yield_bpm0l05WS_rms vs Slug, Sign Corrected



Right In: 194.788 $\pm$ 0.039 χ^2 /NDF: 2644047.3/27

Left Out: 196.077 $\pm$ 0.033 χ^2 /NDF: 975710.9/24

Right Out: 190.245 $\pm$ 0.036 χ^2 /NDF: 3408314.2/32

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

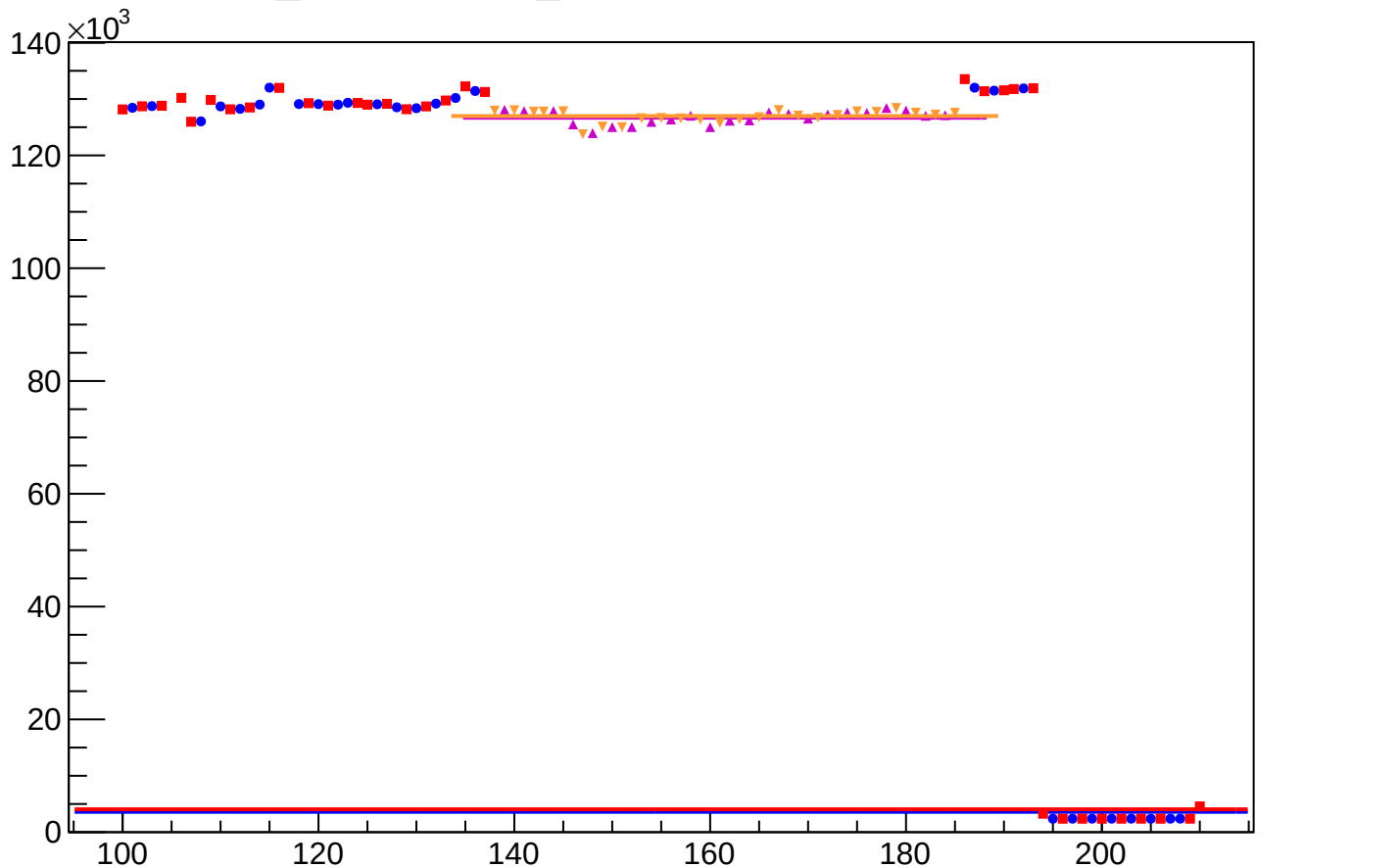
Right: 192.328 $\pm$ 0.026 χ^2 /NDF: 6059854.3/60

In: 195.575 $\pm$ 0.026 χ^2 /NDF: 3542842.8/50

Out: 193.373 $\pm$ 0.024 χ^2 /NDF: 4398472.3/57

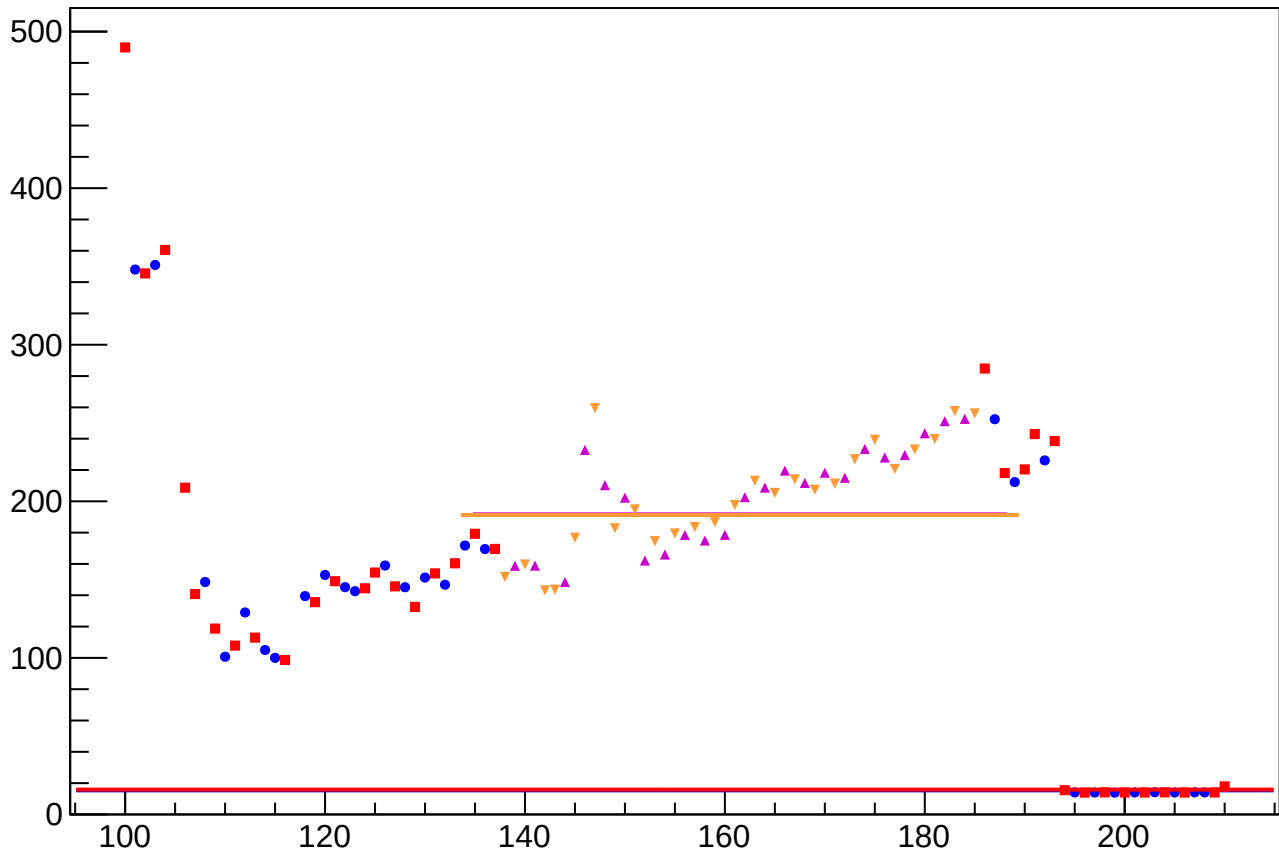
All: 194.415 $\pm$ 0.018 χ^2 /NDF: 7945229.3/108

yield_bpm0l06WS_mean vs Slug, Sign Corrected



Right In: 3612.635 $\pm$ 0.006	χ^2/NDF : 4884050626210.3/27	Left: 126836.943 $\pm$ 0.033	χ^2/NDF : 1211882944.2/24
Left Out: 126981.724 $\pm$ 0.046	χ^2/NDF : 530573115.8/24	Right: 3823.491 $\pm$ 0.004	χ^2/NDF : 10697044656816.0/24
Right Out: 4052.662 $\pm$ 0.006	χ^2/NDF : 5810046128673.9/32	In: 5342.043 $\pm$ 0.006	χ^2/NDF : 11647034828845.2/32
Left In: 126682.659 $\pm$ 0.047	χ^2/NDF : 660415880.0/22	Out: 6048.910 $\pm$ 0.006	χ^2/NDF : 12984294006384.0/32
		All: 5681.158 $\pm$ 0.004	χ^2/NDF : 24639053472.0/32

yield_bpm0l06WS_rms vs Slug, Sign Corrected



Right In: 15.401 $\pm$ 0.004 χ^2 /NDF: 13289508.8/27

Left Out: 191.263 $\pm$ 0.032 χ^2 /NDF: 992566.2/24

Right Out: 15.876 $\pm$ 0.004 χ^2 /NDF: 15578157.9/32

Left In: 191.683 $\pm$ 0.033 χ^2 /NDF: 864384.9/22

Left: 191.466 $\pm$ 0.023 χ^2 /NDF: 1857033.4/47

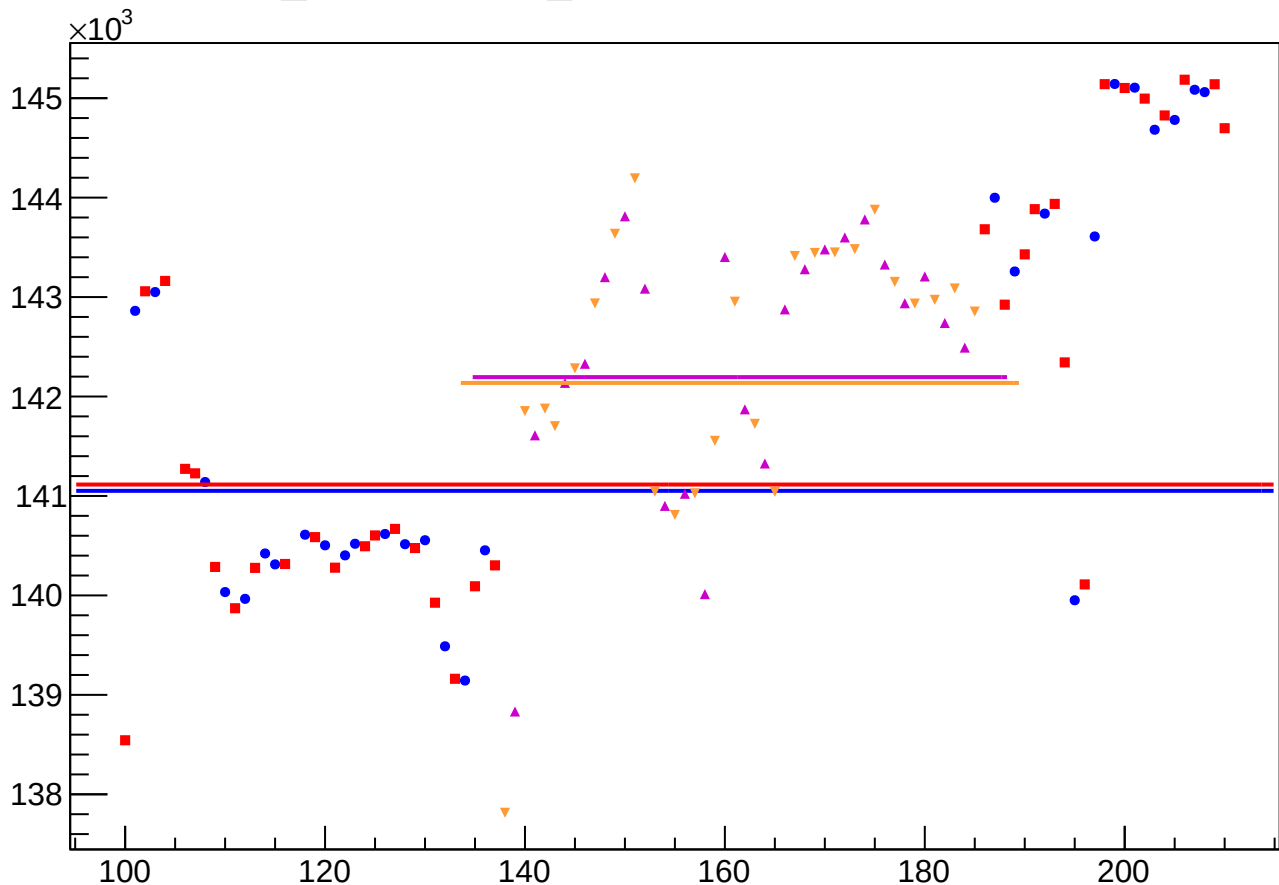
Right: 15.628 $\pm$ 0.003 χ^2 /NDF: 28874551.1/60

In: 17.878 $\pm$ 0.004 χ^2 /NDF: 41902272.3/50

Out: 18.724 $\pm$ 0.004 χ^2 /NDF: 45775931.3/57

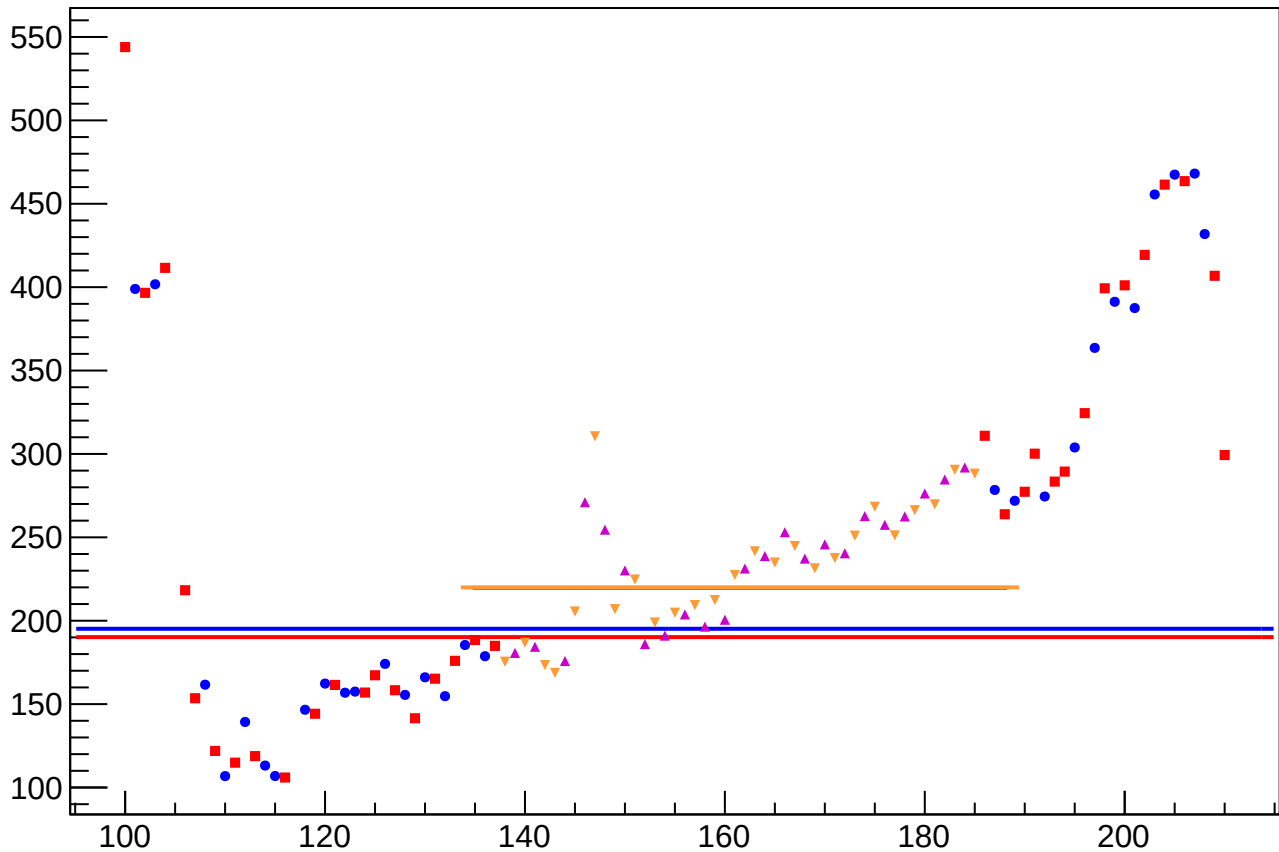
All: 18.284 $\pm$ 0.003 χ^2 /NDF: 87700356.7/108

yield_bpm0l07WS_mean vs Slug, Sign Corrected



Right In: 141051.616+/-0.058	χ^2/NDF : 769057147.5/27	Left: 142164.953+/-0.038	χ^2/NDF : 1460209902.9/4
Left Out: 142136.579+/-0.052	χ^2/NDF : 815573343.0/24	Right: 141086.184+/-0.039	χ^2/NDF : 1718386810.8/4
Right Out: 141114.937+/-0.053	χ^2/NDF : 948672013.2/32	In: 141662.522+/-0.039	χ^2/NDF : 1622955943.1/50
Left In: 142195.020+/-0.054	χ^2/NDF : 644030906.9/22	Out: 141628.590+/-0.037	χ^2/NDF : 1953797332.8/5
		All: 141644.550+/-0.027	χ^2/NDF : 357714668.0/100

yield_bpm0l07WS_rms vs Slug, Sign Corrected



Right In: 195.171+/-0.041 χ^2/NDF : 5437074.7/27

Left Out: 219.969+/-0.037 χ^2/NDF : 866616.3/24

Right Out: 190.163+/-0.037 χ^2/NDF : 6184042.7/32

Left In: 219.685+/-0.038 χ^2/NDF : 812745.1/22

Left: 219.831+/-0.027 χ^2/NDF : 1679390.1/47

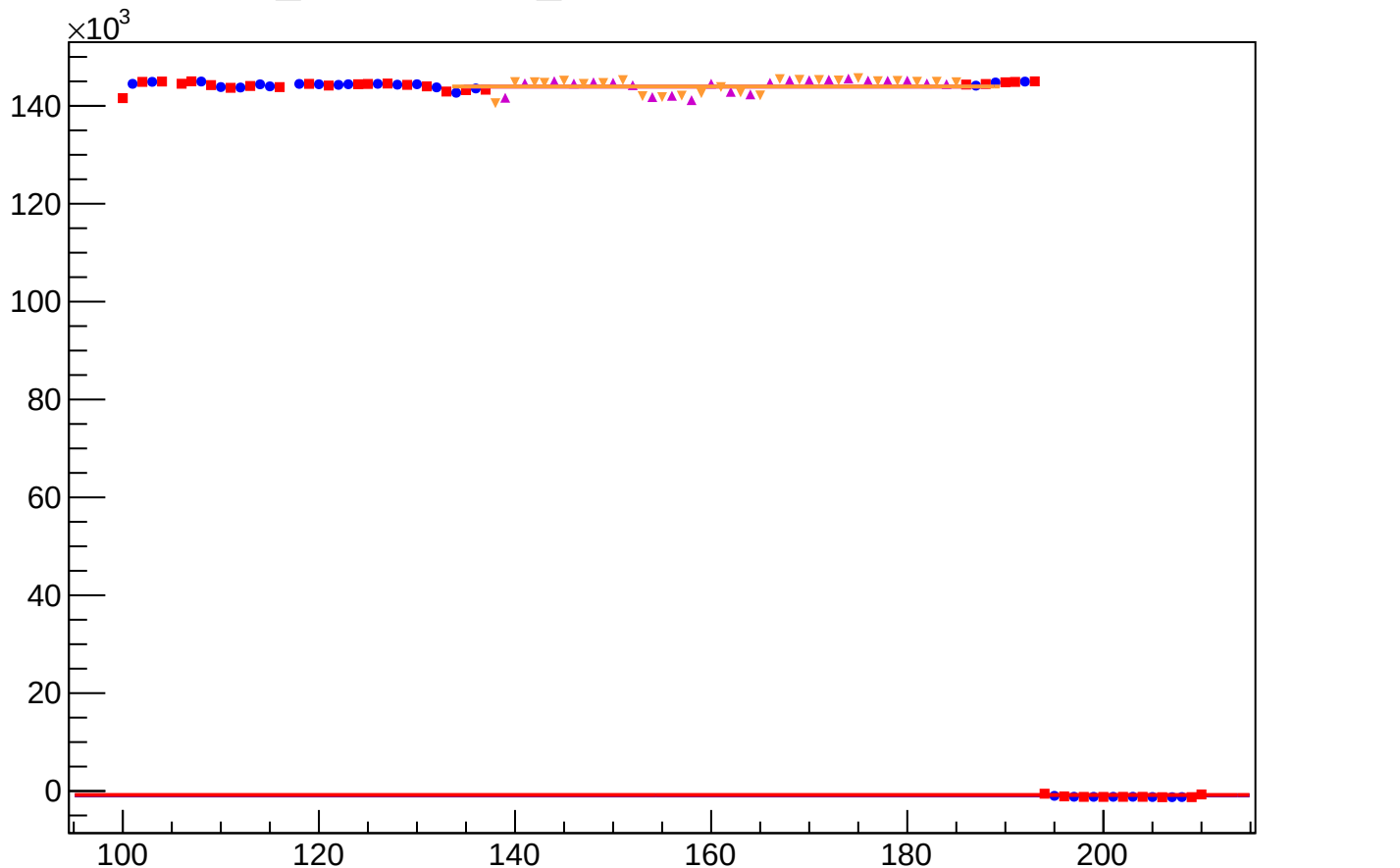
Right: 192.437+/-0.027 χ^2/NDF : 11629342.3/60

In: 208.268+/-0.028 χ^2/NDF : 6442749.1/50

Out: 205.149+/-0.026 χ^2/NDF : 7373328.8/57

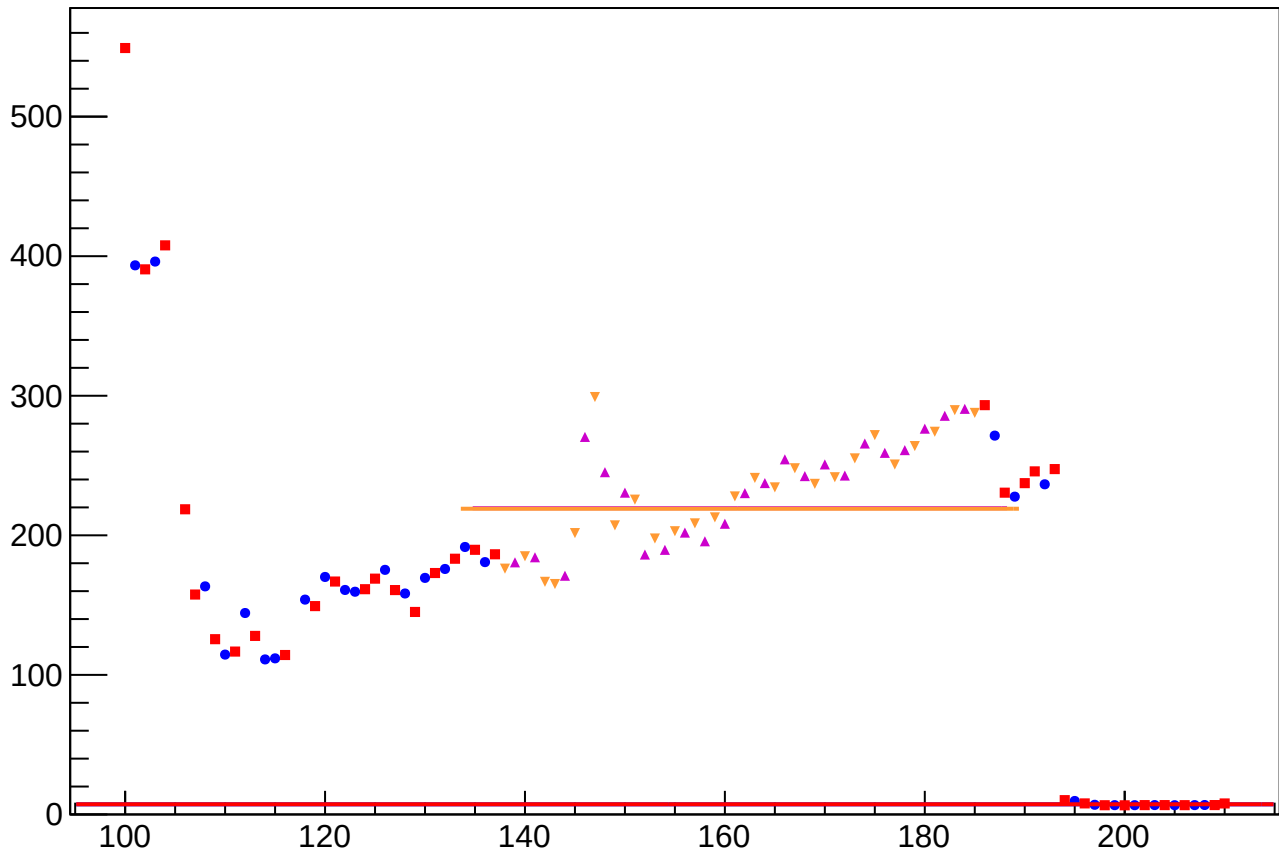
All: 206.616+/-0.019 χ^2/NDF : 13822726.9/100

yield_bpm0l08WS_mean vs Slug, Sign Corrected



Right In: -903.231 ± 0.003 $\chi^2/\text{NDF}: 5297596909411.1/27$ Left: 143944.995 ± 0.037 $\chi^2/\text{NDF}: 1584524299.4/27$
 Left Out: 143951.284 ± 0.052 $\chi^2/\text{NDF}: 864679545.2/24$ Right: -857.434 ± 0.002 $\chi^2/\text{NDF}: 11699967088380.0/24$
 Right Out: -808.306 ± 0.003 $\chi^2/\text{NDF}: 6401813486056.7/32$ In: -514.100 ± 0.003 $\chi^2/\text{NDF}: 12515843074110.9/32$
 Left In: 143938.288 ± 0.054 $\chi^2/\text{NDF}: 719814685.6/22$ Out: -363.534 ± 0.003 $\chi^2/\text{NDF}: 14088463294863.1/32$
 All: -441.445 ± 0.002 $\chi^2/\text{NDF}: 26605710997.0/103$

yield_bpm0l08WS_rms vs Slug, Sign Corrected



Right In: 7.244 $\pm$ 0.002 χ^2 /NDF: 14922108.5/27

Left Out: 219.050 $\pm$ 0.037 χ^2 /NDF:934417.6/24

Right Out: 7.302 $\pm$ 0.002 χ^2 /NDF: 17461095.2/32

Left In: 219.426 $\pm$ 0.038 χ^2 /NDF:850089.5/22

Left: 219.232 $\pm$ 0.026 χ^2 /NDF: 1784557.4/47

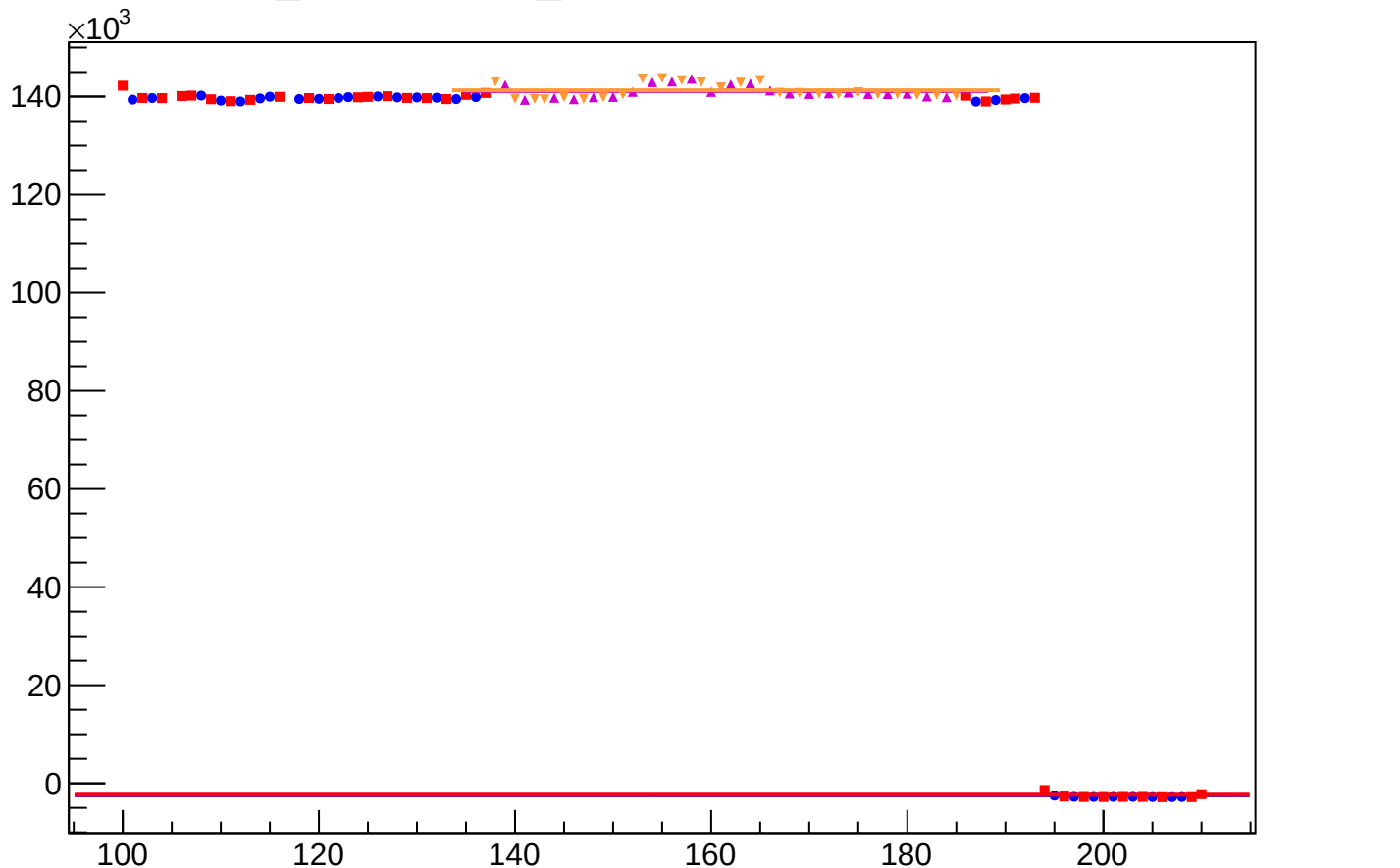
Right: 7.272 $\pm$ 0.001 χ^2 /NDF: 32383622.8/60

In: 7.814 $\pm$ 0.002 χ^2 /NDF:46749779.4/50

Out: 7.953 $\pm$ 0.002 χ^2 /NDF:51285155.6/57

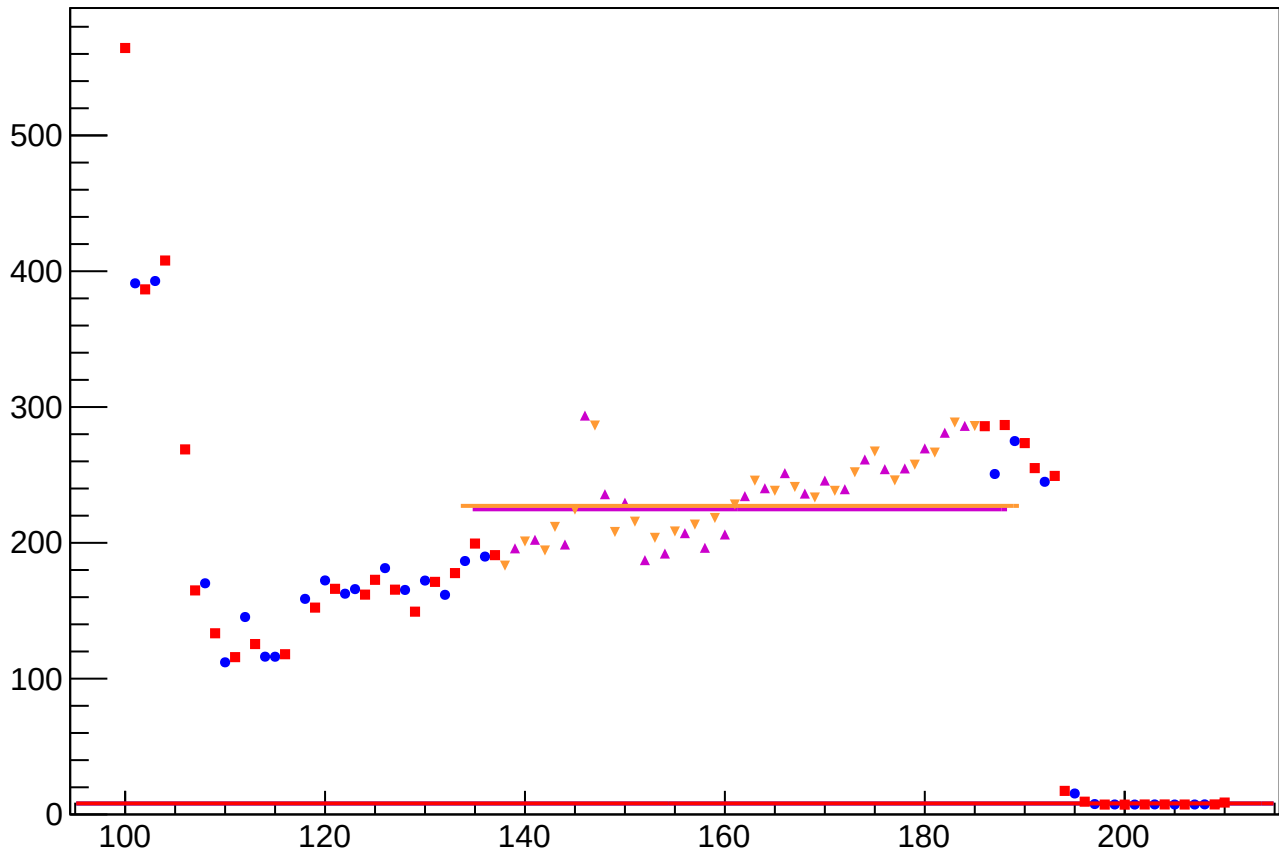
All: 7.881 $\pm$ 0.001 χ^2 /NDF: 98037321.5/108

yield_bpm0l09WS_mean vs Slug, Sign Corrected



Right In: -2439.074 $\pm$ 0.003 χ^2/NDF : 4865909847419.4/27
 Left Out: 141268.791 $\pm$ 0.054 χ^2/NDF : 795989244.2/24
 Right Out: -2336.710 $\pm$ 0.003 χ^2/NDF : 5790471620910.5/32
 Left In: 141119.484 $\pm$ 0.055 χ^2/NDF : 565312728.1/22
 Left: 141195.809 $\pm$ 0.038 χ^2/NDF : 1365080862.2/24
 Right: -2389.567 $\pm$ 0.002 χ^2/NDF : 1065689694953.0/27
 In: -1972.600 $\pm$ 0.003 χ^2/NDF : 11678293652823.0/32
 Out: -1815.872 $\pm$ 0.003 χ^2/NDF : 12917042803227.0/32
 All: -1896.787 $\pm$ 0.002 χ^2/NDF : 2459654904.0/32

yield_bpm0l09WS_rms vs Slug, Sign Corrected



Right In: 8.054 ± 0.002 χ^2/NDF : 15079846.2/27

Left Out: 227.224 ± 0.038 χ^2/NDF : 484955.3/24

Right Out: 8.122 ± 0.002 χ^2/NDF : 17502448.5/32

Left In: 224.686 ± 0.039 χ^2/NDF : 578366.0/22

Left: 225.984 ± 0.027 χ^2/NDF : 1065504.5/47

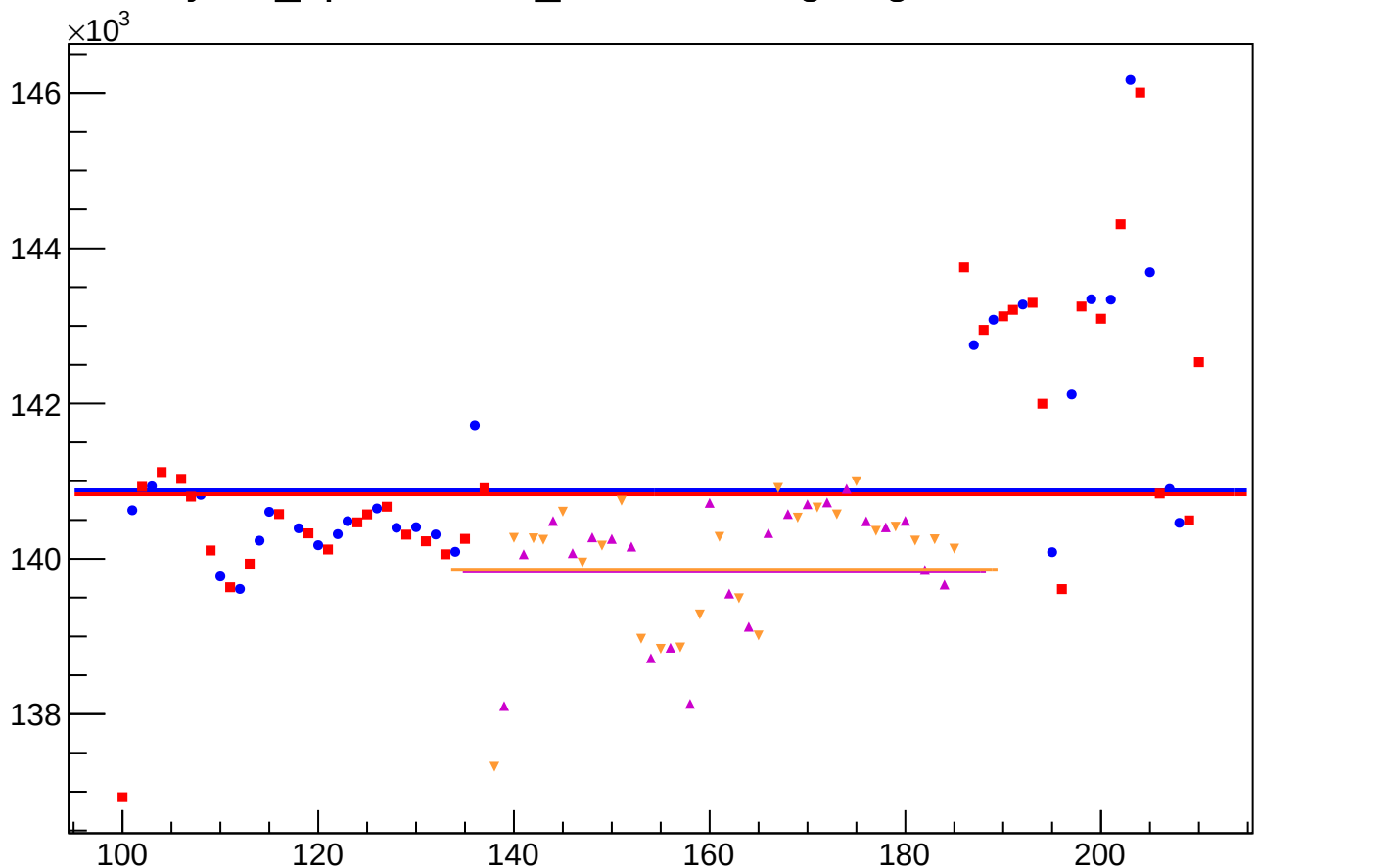
Right: 8.087 ± 0.002 χ^2/NDF : 32582755.1/60

In: 8.758 ± 0.002 χ^2/NDF : 46681032.8/50

Out: 8.917 ± 0.002 χ^2/NDF : 51162397.1/57

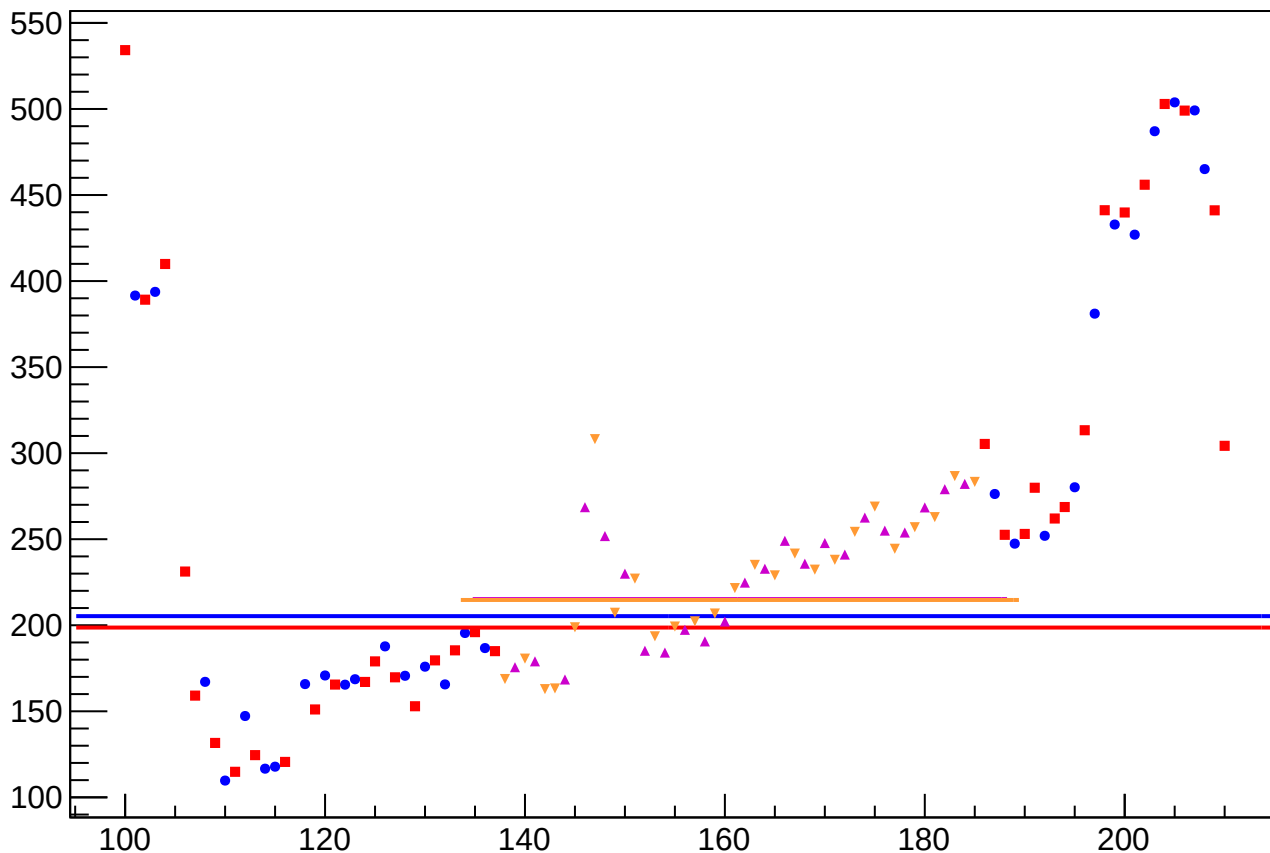
All: 8.835 ± 0.002 χ^2/NDF : 97845930.2/108

yield_bpm0l10WS_mean vs Slug, Sign Corrected



Right In: 140883.116 $\pm$ 0.060	χ^2/NDF : 428740724.3/27	Left: 139849.553 $\pm$ 0.037	χ^2/NDF : 609773442.9/47
Left Out: 139859.696 $\pm$ 0.051	χ^2/NDF : 330118281.5/24	Right: 140855.296 $\pm$ 0.041	χ^2/NDF : 954955751.3/6
Right Out: 140832.552 $\pm$ 0.055	χ^2/NDF : 525830057.4/32	In: 140290.696 $\pm$ 0.040	χ^2/NDF : 877642528.4/50
Left In: 139838.724 $\pm$ 0.053	χ^2/NDF : 279573689.3/22	Out: 140313.418 $\pm$ 0.037	χ^2/NDF : 1025011073.7/5
		All: 140302.775 $\pm$ 0.027	χ^2/NDF : 190282718

yield_bpm0l10WS_rms vs Slug, Sign Corrected



Right In: 205.295 $\pm$ 0.043 χ^2 /NDF: 5175910.2/27

Left Out: 214.693 $\pm$ 0.036 χ^2 /NDF: 981105.5/24

Right Out: 198.655 $\pm$ 0.039 χ^2 /NDF: 5823607.1/32

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

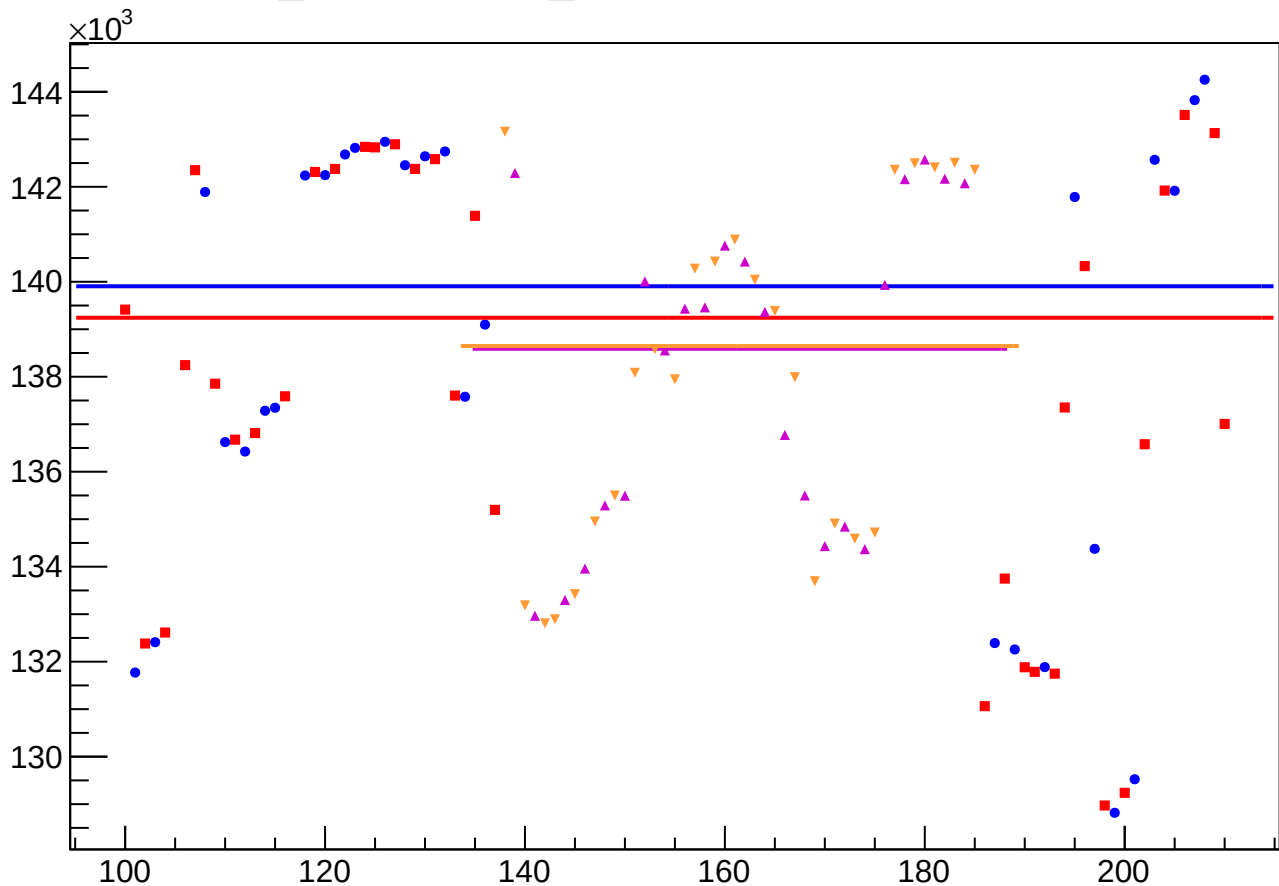
Right: 201.642 $\pm$ 0.029 χ^2 /NDF: 11012793.3/60

In: 210.926 $\pm$ 0.028 χ^2 /NDF: 6088449.5/50

Out: 207.213 $\pm$ 0.026 χ^2 /NDF: 6896597.0/57

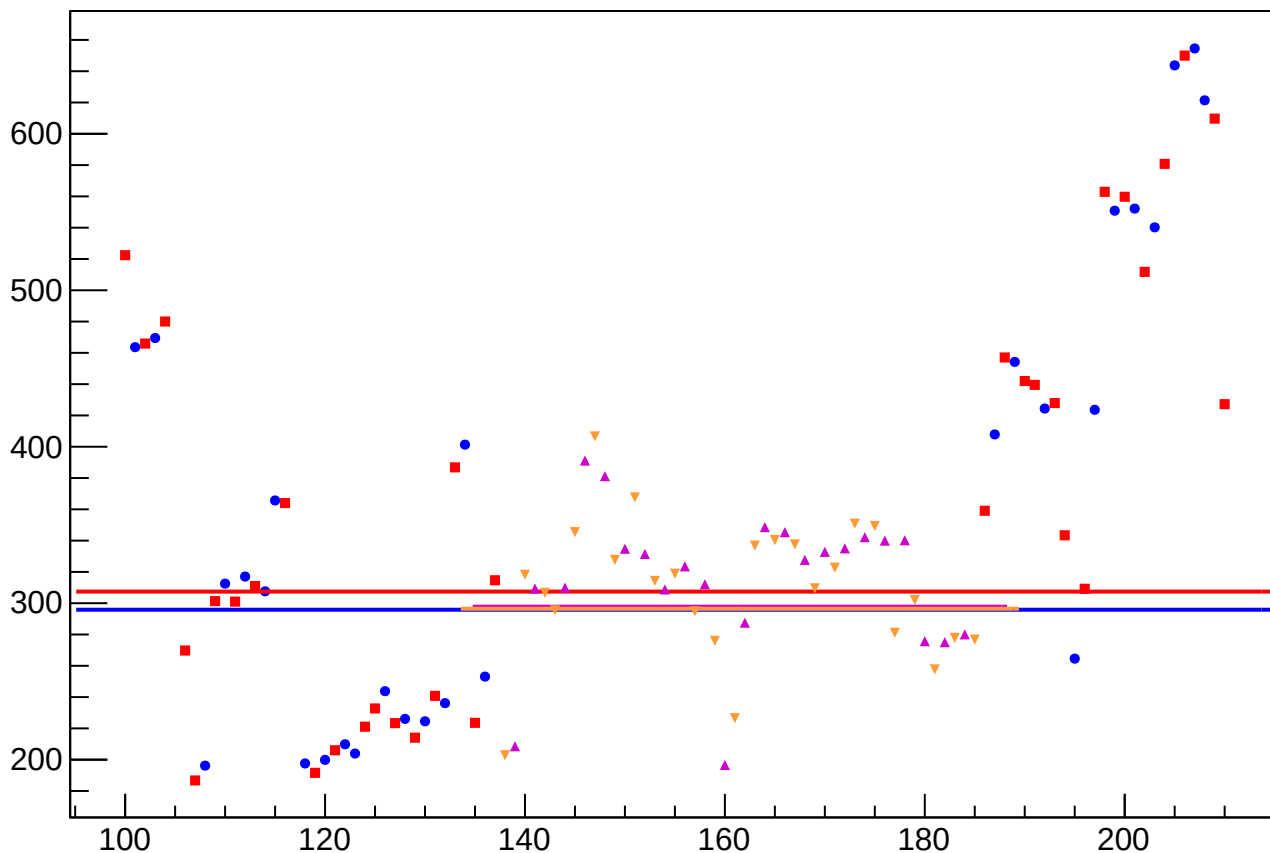
All: 208.952 $\pm$ 0.019 χ^2 /NDF: 12994314.6/100

yield_bpm0r03WS_mean vs Slug, Sign Corrected



Right In: 139905.186+/-0.086	χ^2/NDF : 2257007313.8/27	Left: 138618.660+/-0.051	χ^2/NDF : 4497021019.3/4
Left Out: 138646.366+/-0.071	χ^2/NDF : 2548637600.4/24	Right: 139561.659+/-0.059	χ^2/NDF : 4723434735.0/4
Right Out: 139242.507+/-0.083	χ^2/NDF : 2435380043.8/32	In: 139148.607+/-0.056	χ^2/NDF : 4340912587.5/50
Left In: 138588.711+/-0.074	χ^2/NDF : 1948065195.1/22	Out: 138899.285+/-0.054	χ^2/NDF : 5014053954.7/5
		All: 139019.209+/-0.039	χ^2/NDF : 936531216

yield_bpm0r03WS_rms vs Slug, Sign Corrected



Right In: 295.833+/-0.061 χ^2/NDF : 4120698.5/27

Left Out: 296.464+/-0.050 χ^2/NDF : 893579.7/24

Right Out: 307.423+/-0.058 χ^2/NDF : 4260043.9/32

Left In: 297.774+/-0.052 χ^2/NDF : 1061489.5/22

Left: 297.094+/-0.036 χ^2/NDF : 1955397.8/47

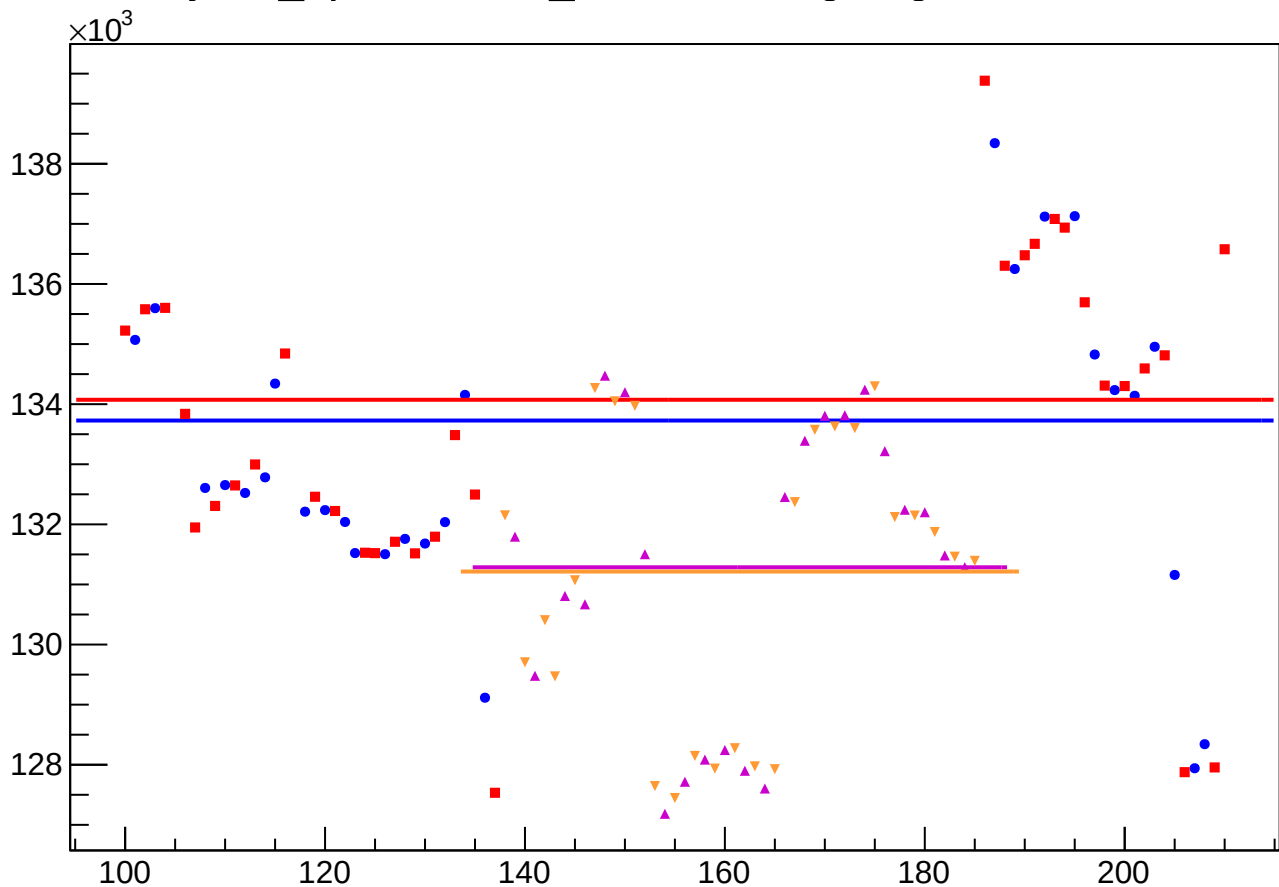
Right: 301.842+/-0.042 χ^2/NDF : 8399736.2/60

In: 296.949+/-0.039 χ^2/NDF : 5182778.6/50

Out: 301.114+/-0.038 χ^2/NDF : 5173924.5/57

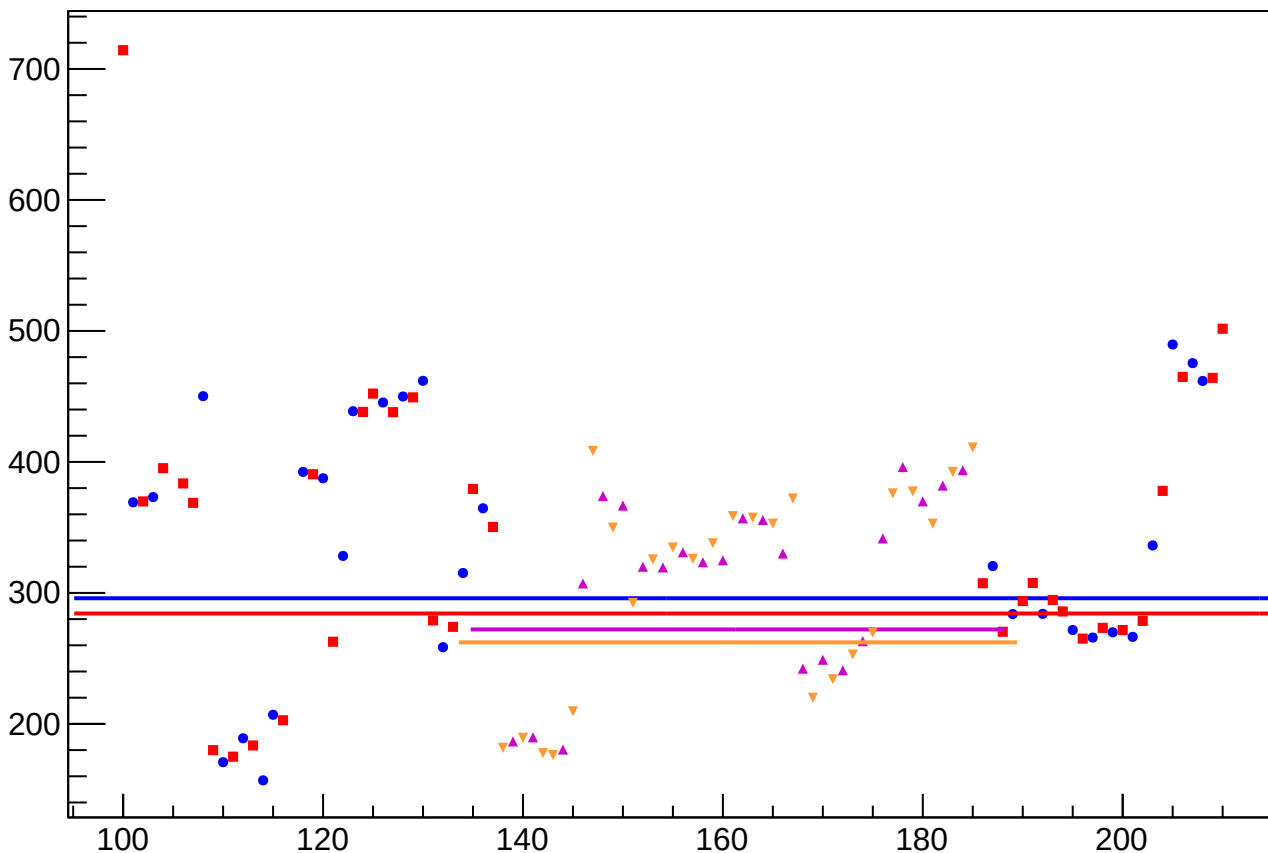
All: 299.111+/-0.027 χ^2/NDF : 10362477.5/100

yield_bpm0r05WS_mean vs Slug, Sign Corrected



Right In: 133727.847 $\pm$ 0.082 χ^2 /NDF: 837599697.4/27
 Left Out: 131214.985 $\pm$ 0.064 χ^2 /NDF: 1173424494.6/24
 Right Out: 134073.216 $\pm$ 0.074 χ^2 /NDF: 993388067.4/32
 Left In: 131285.623 $\pm$ 0.068 χ^2 /NDF: 1056232192.1/22
 Left: 131248.166 $\pm$ 0.047 χ^2 /NDF: 2230223308.9/4
 Right: 133918.260 $\pm$ 0.055 χ^2 /NDF: 1840771935.5/4
 In: 132286.796 $\pm$ 0.052 χ^2 /NDF: 2417439251.0/50
 Out: 132445.757 $\pm$ 0.049 χ^2 /NDF: 3017241497.1/5
 All: 132372.499 $\pm$ 0.036 χ^2 /NDF: 543962498.1/100

yield_bpm0r05WS_rms vs Slug, Sign Corrected



Right In: 295.922 $\pm$ 0.058 χ^2 /NDF: 2261752.6/27

Left Out: 262.260 $\pm$ 0.045 χ^2 /NDF: 2818169.1/24

Right Out: 284.299 $\pm$ 0.052 χ^2 /NDF: 2567907.8/32

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

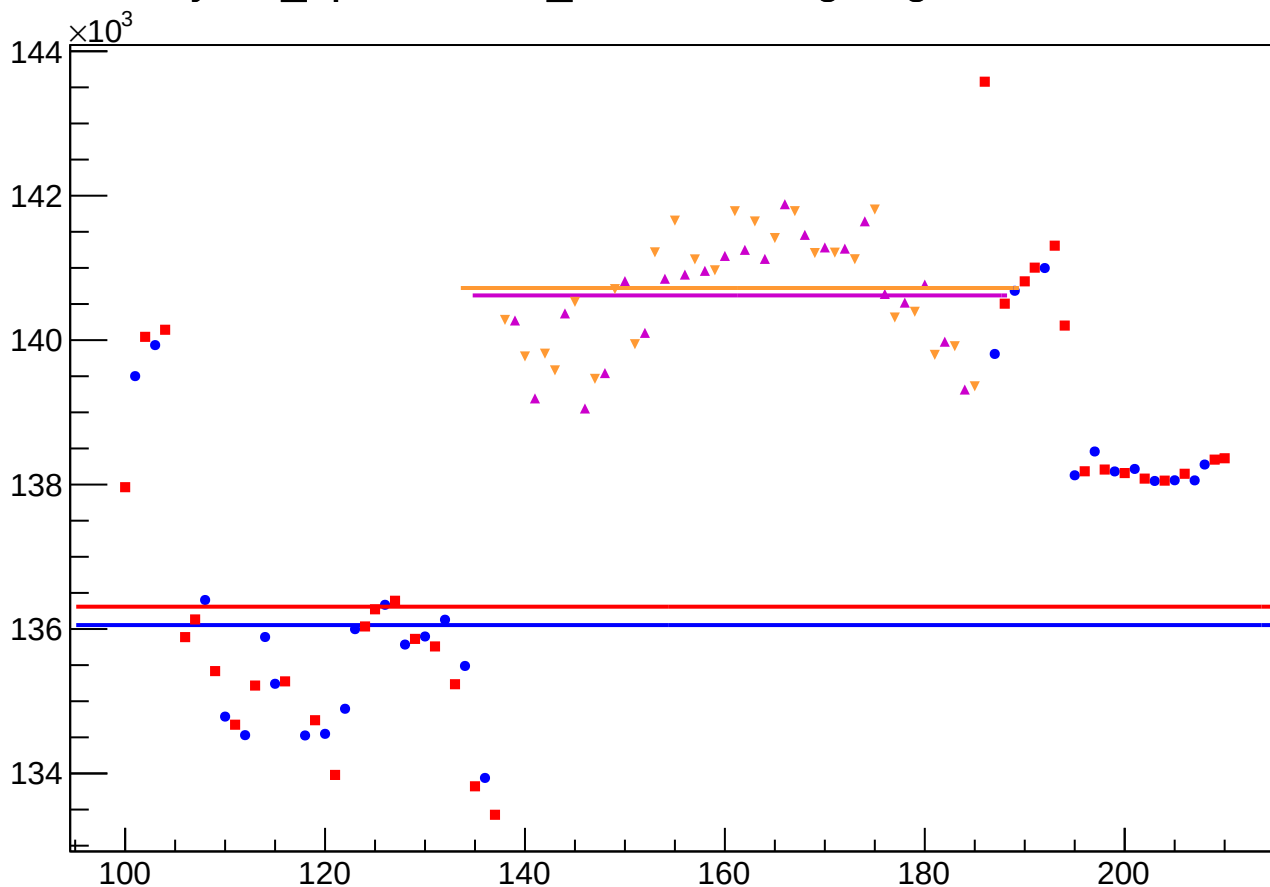
Right: 289.514 $\pm$ 0.039 χ^2 /NDF: 4851825.5/60

In: 281.875 $\pm$ 0.037 χ^2 /NDF: 4583195.6/50

Out: 271.750 $\pm$ 0.034 χ^2 /NDF: 5487203.2/57

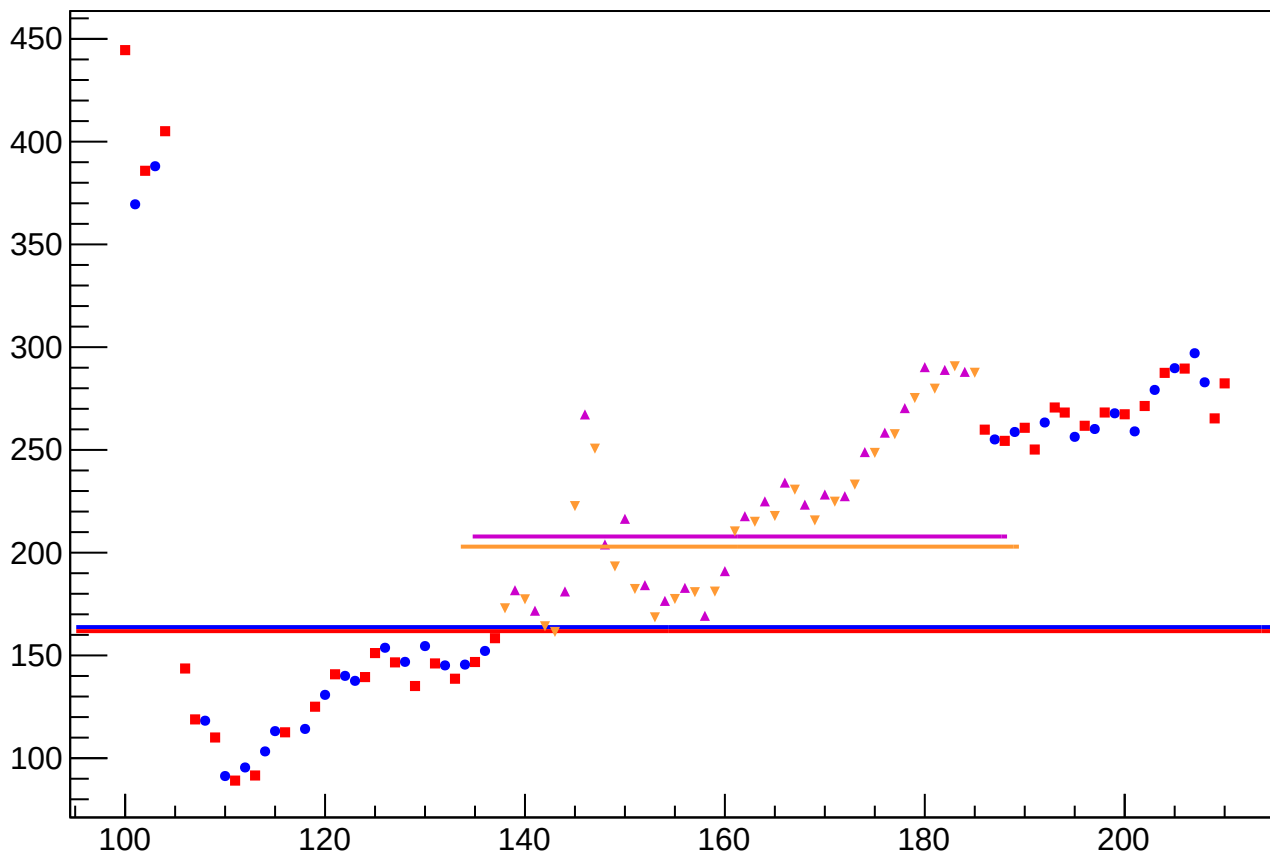
All: 276.416 $\pm$ 0.025 χ^2 /NDF: 10110514.3/10

yield_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 136054.553 $\pm$ 0.047	χ^2 /NDF: 1489693557.7/27	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: 136190.957 $\pm$ 0.032	χ^2 /NDF: 3681838028.1/1
Right Out: 136309.240 $\pm$ 0.044	χ^2 /NDF: 2176744206.2/32	In: 138170.792 $\pm$ 0.035	χ^2 /NDF: 5972117401.5/50
Left In: 140619.038 $\pm$ 0.051	χ^2 /NDF: 200370178.0/22	Out: 138316.905 $\pm$ 0.033	χ^2 /NDF: 6952821405.8/5
		All: 138248.465 $\pm$ 0.024	χ^2 /NDF: 129343185

yield_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 163.785 $\pm$ 0.034 χ^2 /NDF: 4550430.4/27

Left Out: 202.934 $\pm$ 0.034 χ^2 /NDF:1052283.6/24

Right Out: 161.817 $\pm$ 0.031 χ^2 /NDF: 5436132.0/32

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

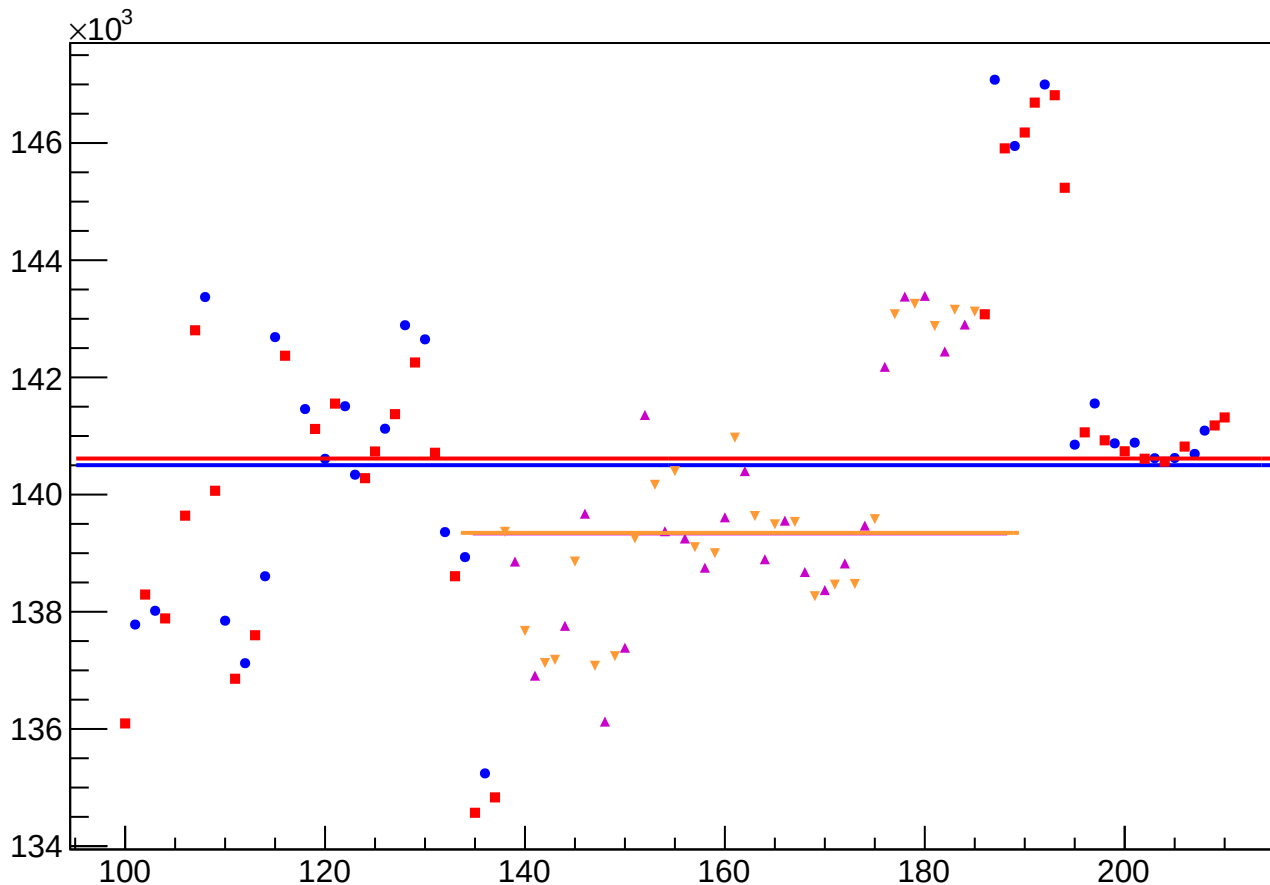
Right: 162.731 $\pm$ 0.023 χ^2 /NDF: 9988400.4/60

In: 184.225 $\pm$ 0.025 χ^2 /NDF:6298592.0/50

Out: 180.525 $\pm$ 0.023 χ^2 /NDF:7274863.6/57

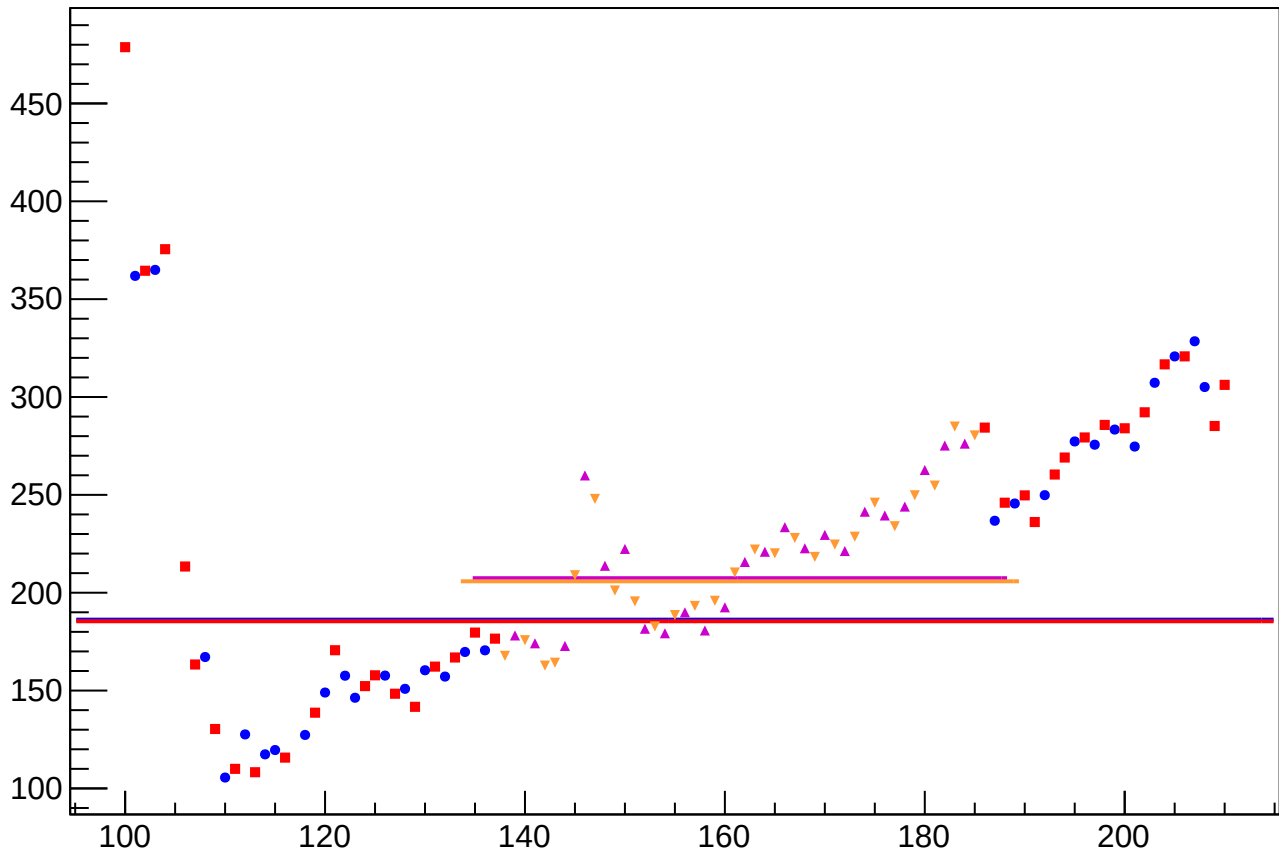
All: 182.258 $\pm$ 0.017 χ^2 /NDF: 13585485.5/100

yield_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 140501.959 $\pm$ 0.053	χ^2 /NDF: 2773668870.2/27	Left: 139342.403 $\pm$ 0.035	χ^2 /NDF: 2564192227.9/4
Left Out: 139346.604 $\pm$ 0.049	χ^2 /NDF: 1271172976.7/24	Right: 140562.252 $\pm$ 0.036	χ^2 /NDF: 5994492827.8/
Right Out: 140615.121 $\pm$ 0.050	χ^2 /NDF: 3218394680.9/32	In: 139895.733 $\pm$ 0.037	χ^2 /NDF: 4317930426.1/50
Left In: 139337.874 $\pm$ 0.051	χ^2 /NDF: 1293003954.9/22	Out: 139972.356 $\pm$ 0.035	χ^2 /NDF: 4820641506.2/5
		All: 139936.006 $\pm$ 0.025	χ^2 /NDF: 914086450

yield_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 186.233+/-0.037 χ^2/NDF : 3602209.2/27

Left Out: 205.833+/-0.035 χ^2/NDF : 738666.4/24

Right Out: 185.416+/-0.035 χ^2/NDF : 4282628.9/32

Left In: 207.416+/-0.036 χ^2/NDF : 701955.3/22

Left: 206.595+/-0.025 χ^2/NDF : 1441628.2/47

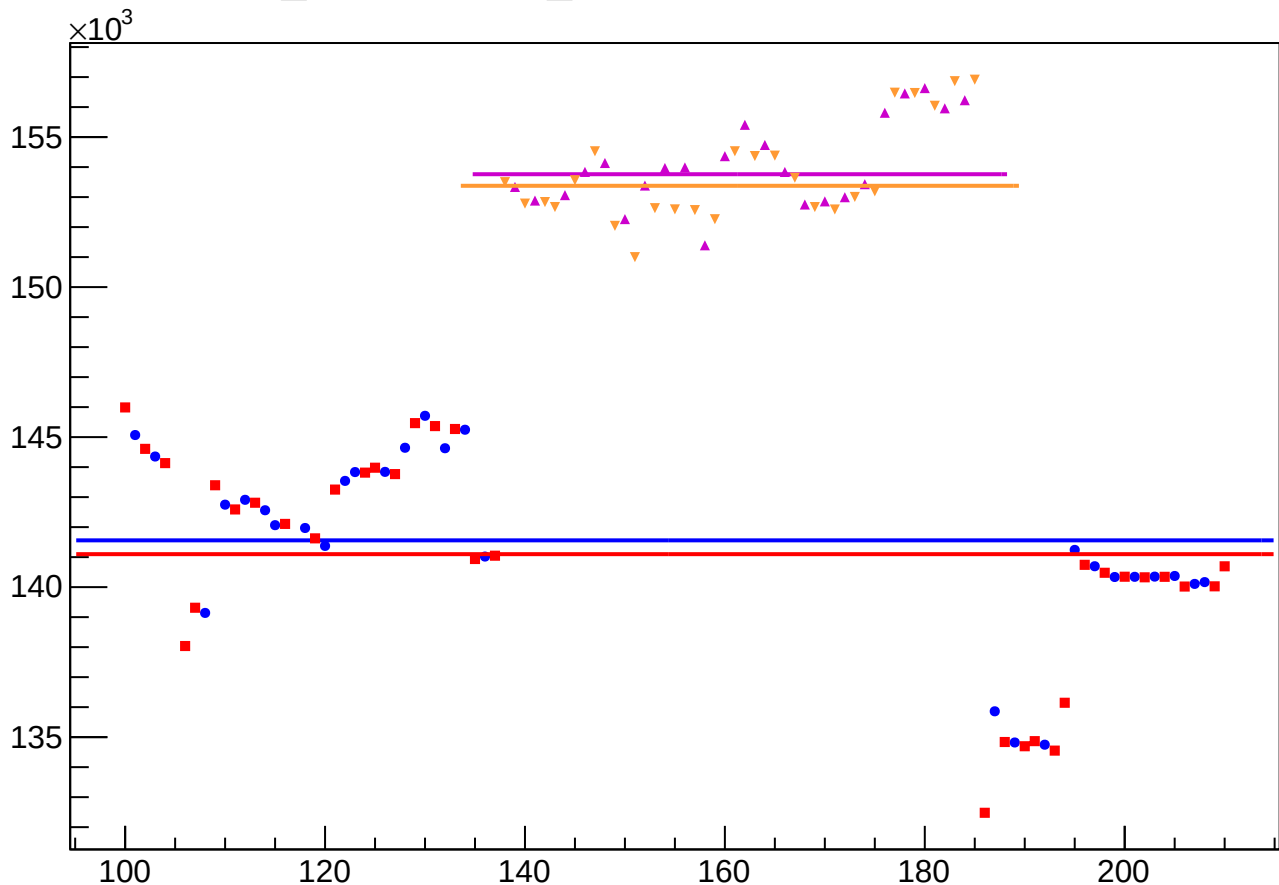
Right: 185.798+/-0.026 χ^2/NDF : 7885091.1/60

In: 197.265+/-0.026 χ^2/NDF : 4470569.1/50

Out: 195.761+/-0.025 χ^2/NDF : 5192817.6/57

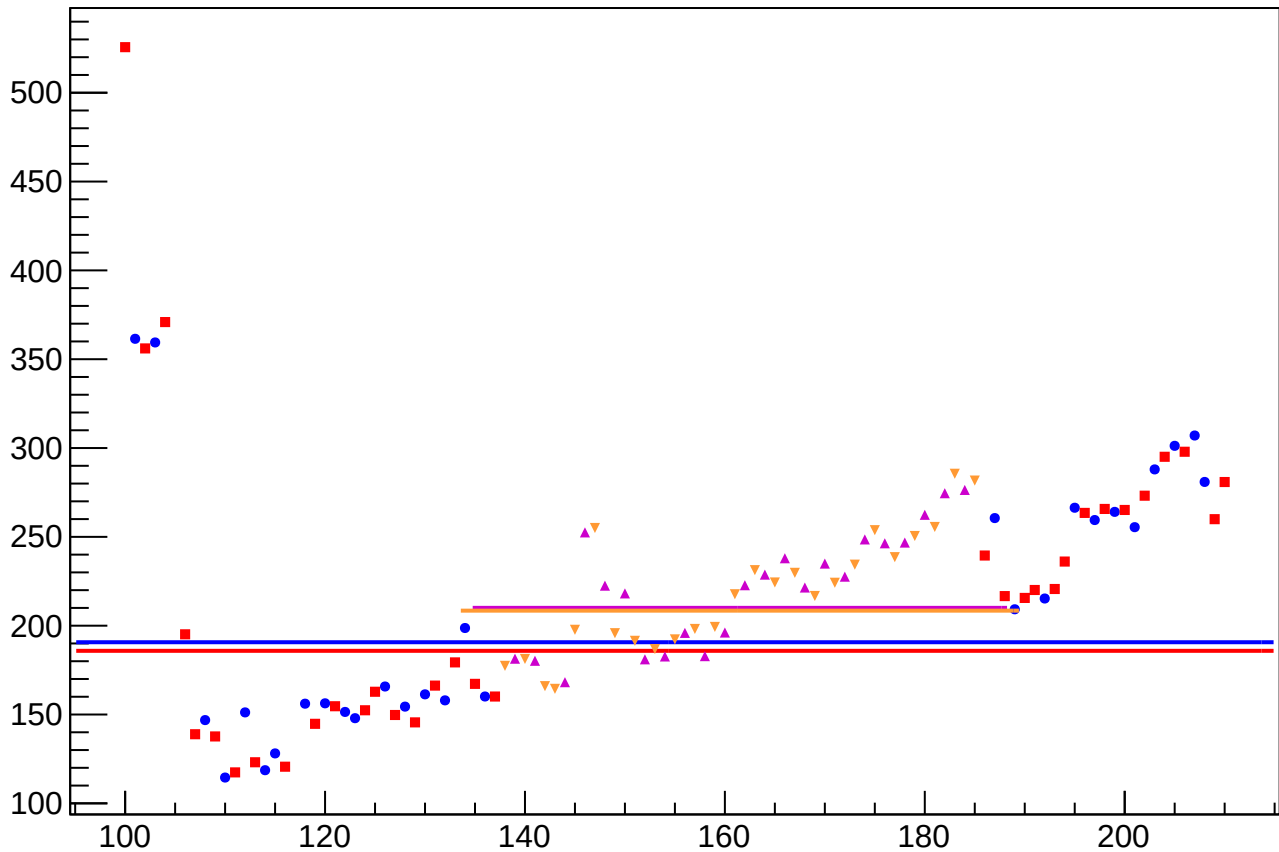
All: 196.475+/-0.018 χ^2/NDF : 9665151.3/108

yield_bpm0i05WS_mean vs Slug, Sign Corrected



Right In: 141559.093 $\pm$ 0.053	χ^2 /NDF: 2708513230.6/27	Left: 153562.262 $\pm$ 0.036	χ^2 /NDF: 1468093411.3/4
Left Out: 153376.698 $\pm$ 0.050	χ^2 /NDF: 803848095.1/24	Right: 141308.749 $\pm$ 0.036	χ^2 /NDF: 7193321264.1/4
Right Out: 141098.986 $\pm$ 0.049	χ^2 /NDF: 4444255192.1/32	In: 147876.059 $\pm$ 0.037	χ^2 /NDF: 30483814776.2/5
Left In: 153762.419 $\pm$ 0.051	χ^2 /NDF: 635075685.0/22	Out: 147144.049 $\pm$ 0.035	χ^2 /NDF: 36433553085.8
		All: 147487.068 $\pm$ 0.025	χ^2 /NDF: 671252013

yield_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 190.690 $\pm$ 0.038 χ^2 /NDF: 2663382.2/27

Left Out: 208.466 $\pm$ 0.035 χ^2 /NDF: 720894.7/24

Right Out: 185.853 $\pm$ 0.034 χ^2 /NDF: 3135513.1/32

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

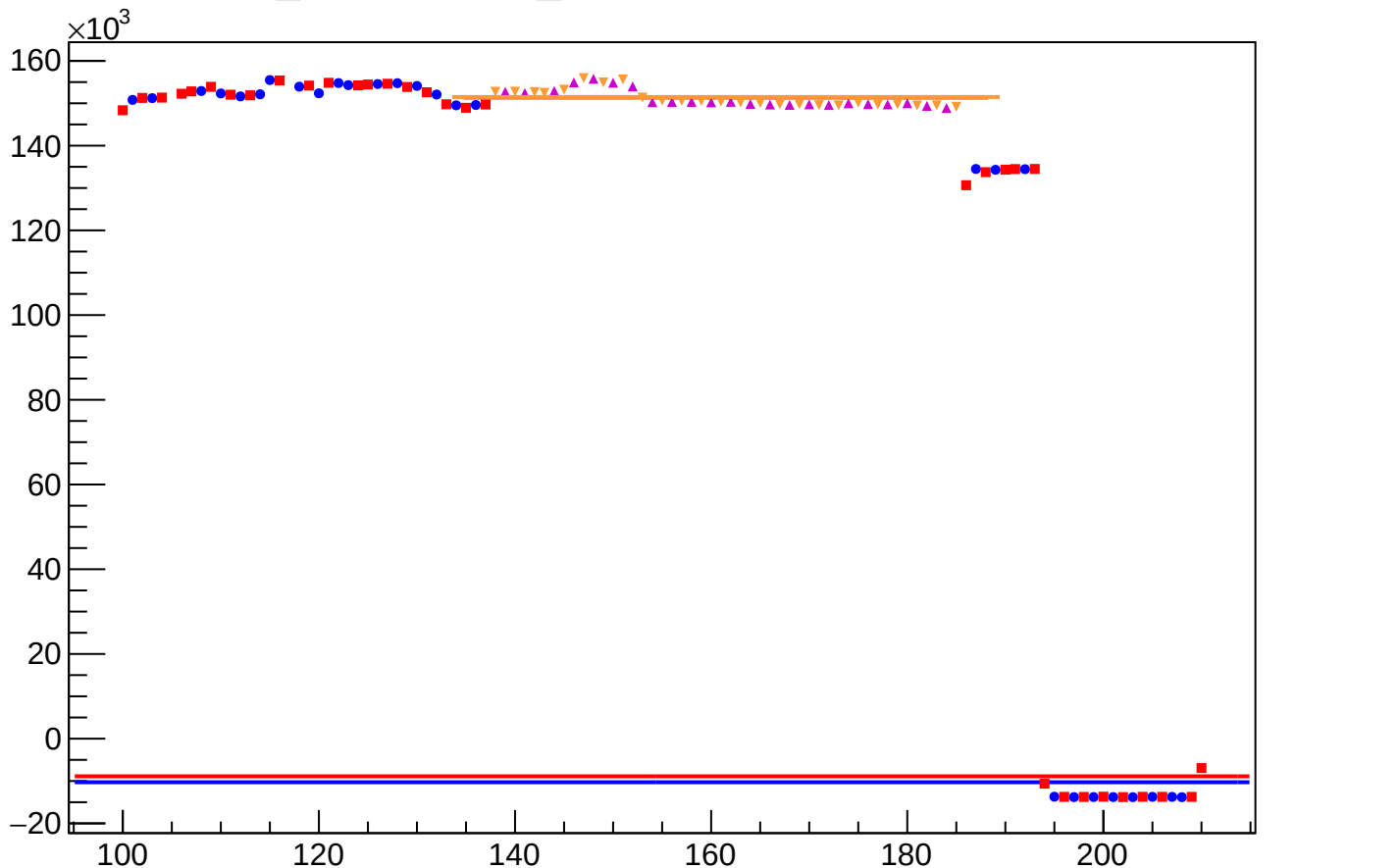
Right: 188.058 $\pm$ 0.025 χ^2 /NDF: 5807860.2/60

In: 200.705 $\pm$ 0.026 χ^2 /NDF: 3502196.5/50

Out: 196.986 $\pm$ 0.025 χ^2 /NDF: 4067988.6/57

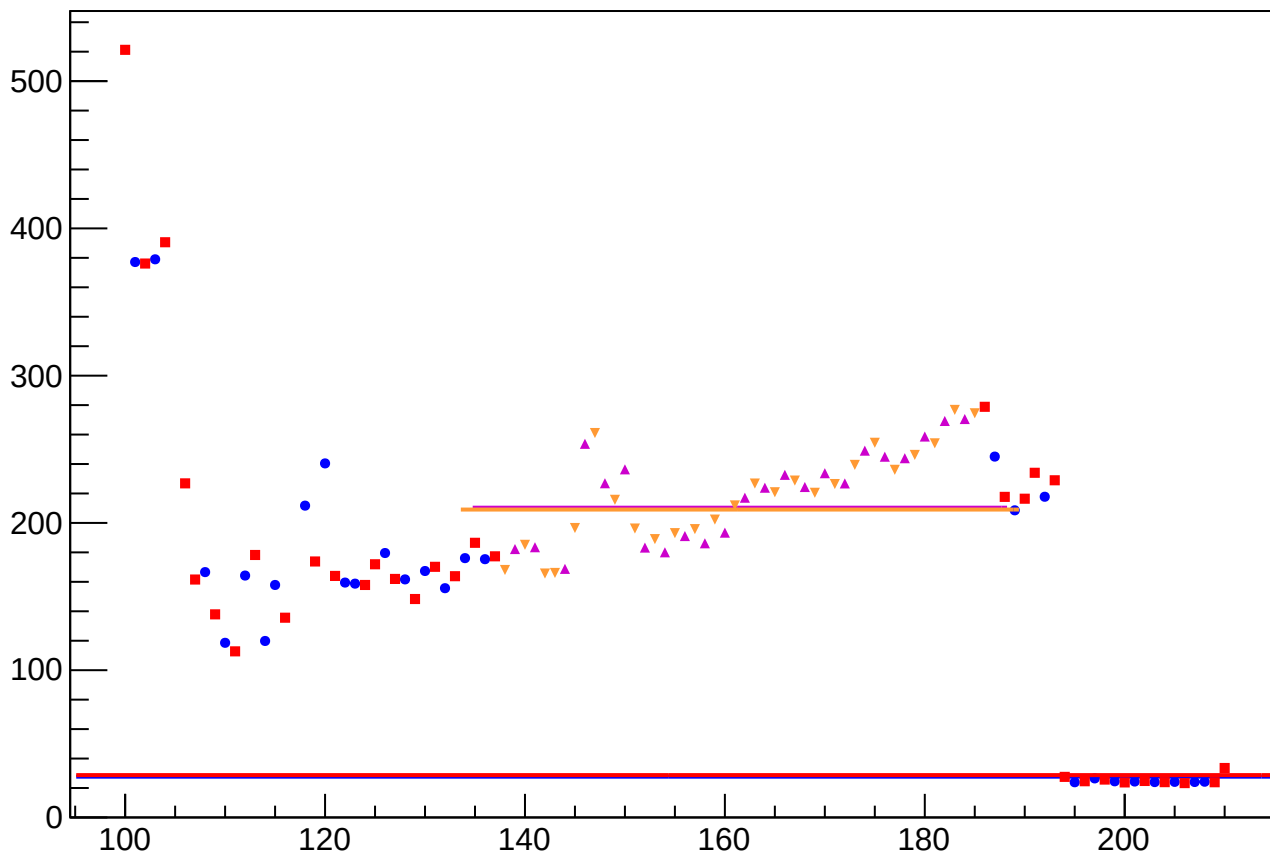
All: 198.729 $\pm$ 0.018 χ^2 /NDF: 7580912.6/108

yield_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -10283.567 $\pm$ 0.010	χ^2/NDF : 5886267257225.0/27	Left: 151425.512 $\pm$ 0.036	χ^2/NDF : 2906409079.9/4
Left Out: 151483.385 $\pm$ 0.050	χ^2/NDF : 1481910066.9/24	Right: -9606.991 $\pm$ 0.007	χ^2/NDF : 1306276883892
Right Out: -8886.200 $\pm$ 0.010	χ^2/NDF : 7166544264945.3/32	In: -4675.995 $\pm$ 0.010	χ^2/NDF : 15434462386628.3
Left In: 151363.165 $\pm$ 0.051	χ^2/NDF : 1421662089.0/22	Out: -2533.734 $\pm$ 0.010	χ^2/NDF : 17239361241382
		All: -3636.021 $\pm$ 0.007	χ^2/NDF : 3269813126

yield_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 27.708+/-0.007 χ^2/NDF : 11568555.9/27

Left Out: 209.076+/-0.035 χ^2/NDF : 708260.3/24

Right Out: 28.759+/-0.007 χ^2/NDF : 13536317.4/32

Left In: 210.345+/-0.036 χ^2/NDF : 677747.7/22

Left: 209.687+/-0.025 χ^2/NDF : 1386640.1/47

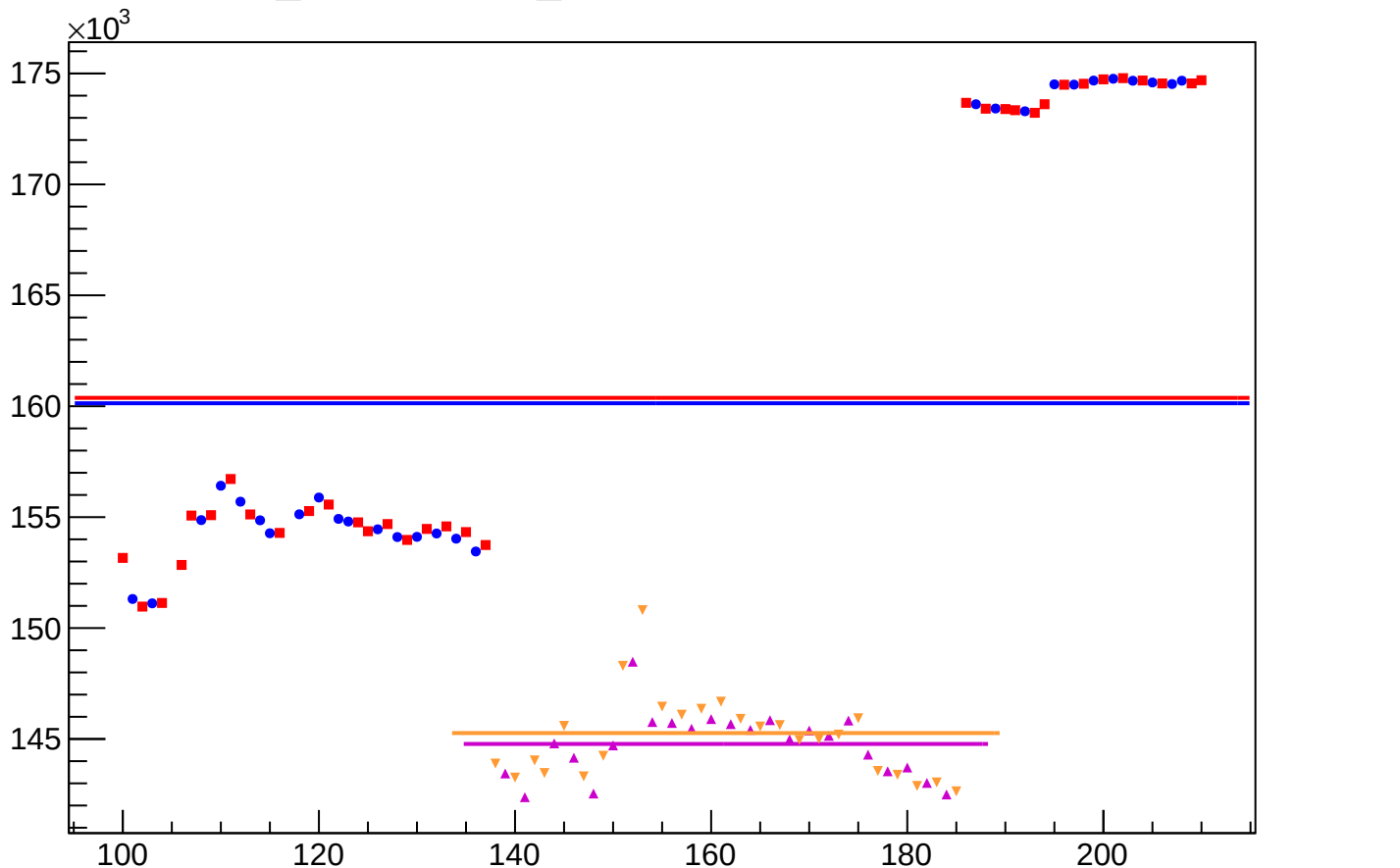
Right: 28.216+/-0.005 χ^2/NDF : 25116137.4/60

In: 34.043+/-0.007 χ^2/NDF : 36620550.5/50

Out: 35.901+/-0.007 χ^2/NDF : 39709845.9/57

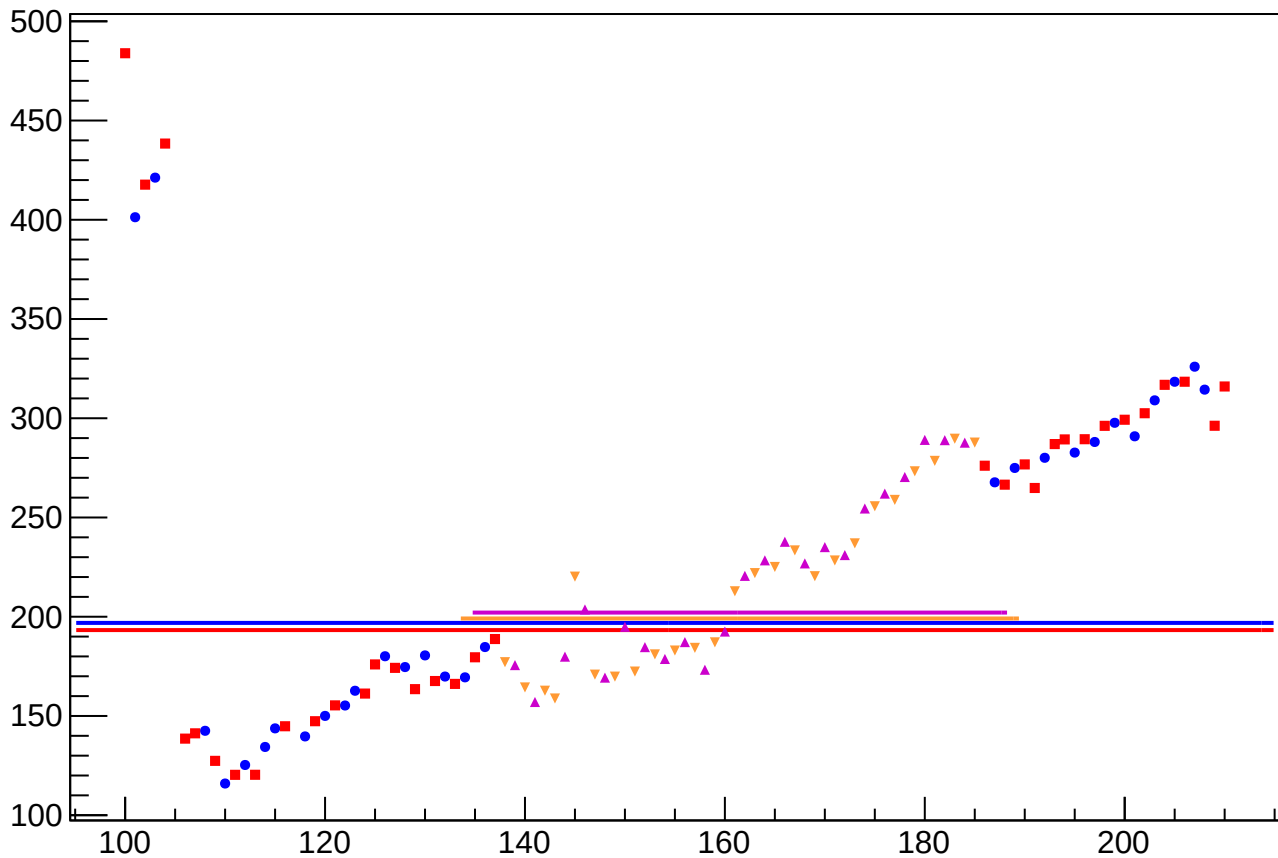
All: 34.945+/-0.005 χ^2/NDF : 76366958.8/108

yield_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: 160133.881 $\pm$ 0.056	χ^2 /NDF: 24678503999.1/27	Left: 145032.324 $\pm$ 0.034	χ^2 /NDF: 2687033506.0/27
Left Out: 145266.717 $\pm$ 0.047	χ^2 /NDF: 1717707352.7/24	Right: 160265.681 $\pm$ 0.038	χ^2 /NDF: 53954188514.7/24
Right Out: 160377.531 $\pm$ 0.051	χ^2 /NDF: 29265370792.1/32	In: 151548.527 $\pm$ 0.037	χ^2 /NDF: 67943561574.7/32
Left In: 144776.016 $\pm$ 0.050	χ^2 /NDF: 918120275.4/22	Out: 152209.852 $\pm$ 0.035	χ^2 /NDF: 77692270304.3/22
		All: 151899.506 $\pm$ 0.025	χ^2 /NDF: 145804879.0/22

yield_bpm1i02WS_rms vs Slug, Sign Corrected



Right In: 196.891+/-0.039 χ^2/NDF : 3569417.9/27

Left Out: 199.118+/-0.034 χ^2/NDF : 1152231.0/24

Right Out: 193.271+/-0.036 χ^2/NDF : 4275456.7/32

Left In: 202.090+/-0.035 χ^2/NDF : 1057833.2/22

Left: 200.538+/-0.024 χ^2/NDF : 2213821.5/47

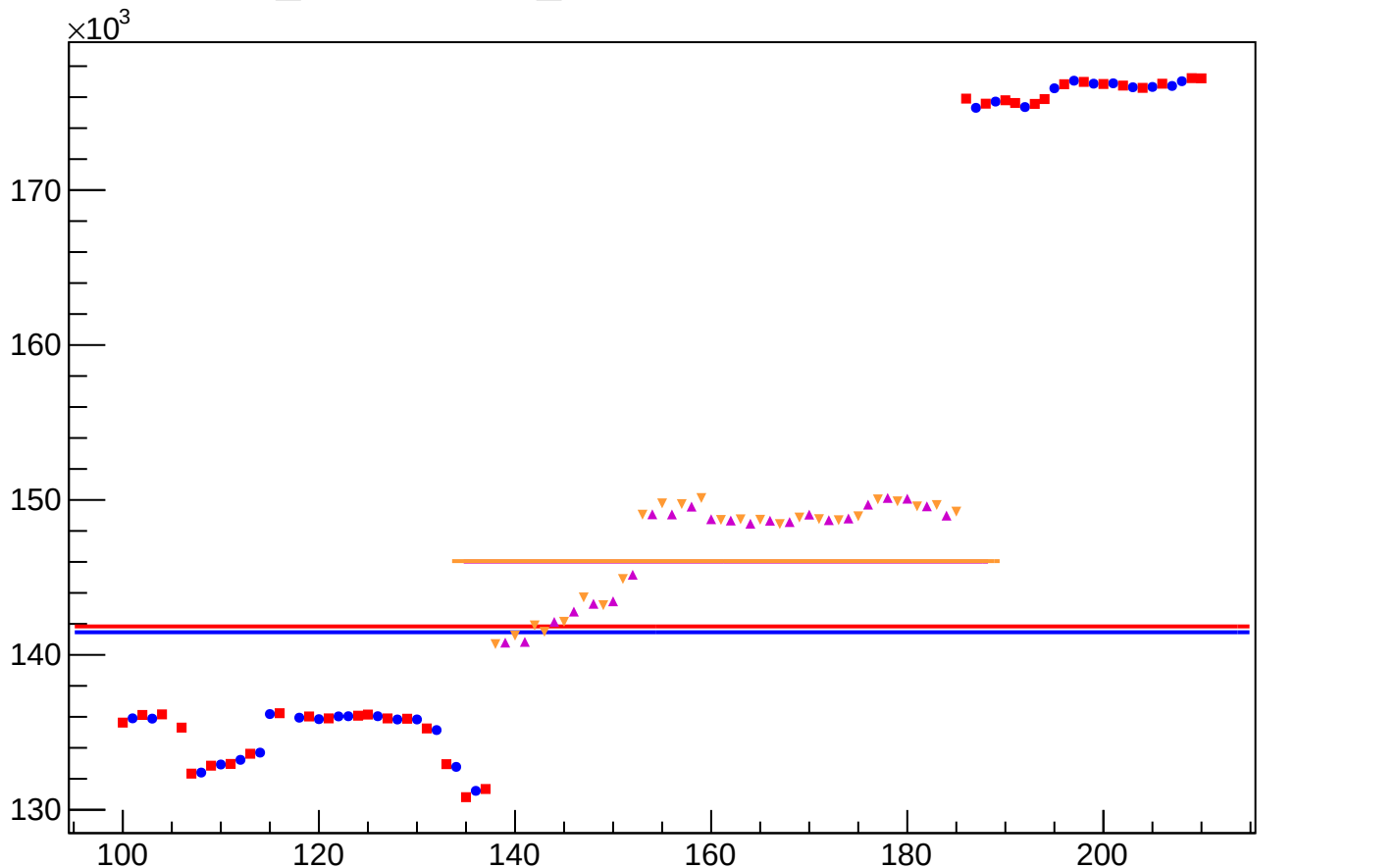
Right: 194.933+/-0.027 χ^2/NDF : 7849426.8/60

In: 199.797+/-0.026 χ^2/NDF : 4636957.5/50

Out: 196.432+/-0.025 χ^2/NDF : 5441672.5/57

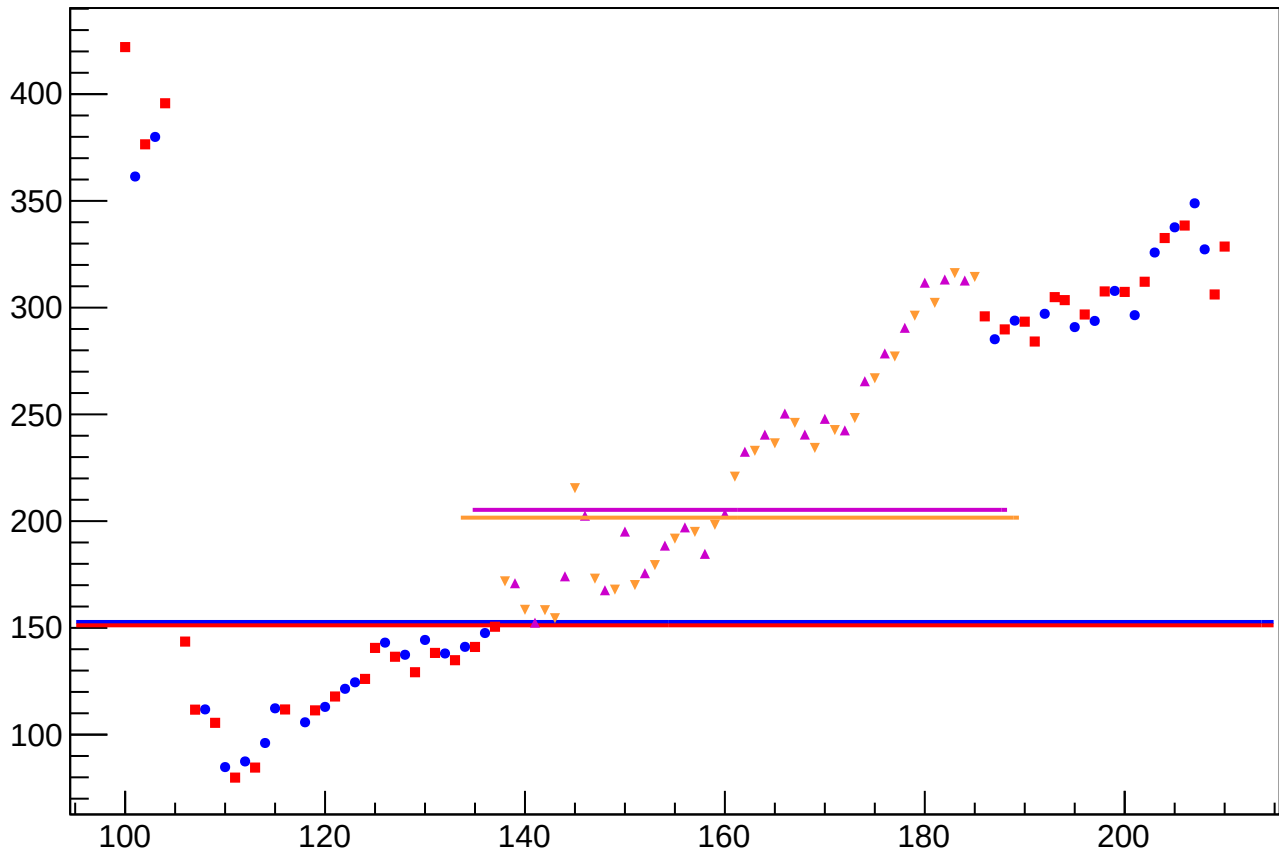
All: 198.011+/-0.018 χ^2/NDF : 10087387.8/100

yield_bpm1i04WS_mean vs Slug, Sign Corrected



Right In: 141460.347 $\pm$ 0.046	χ^2 /NDF: 120218324189.5/27	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: 141661.360 $\pm$ 0.031	χ^2 /NDF: 265853011173
Right Out: 141836.676 $\pm$ 0.043	χ^2 /NDF: 145598816137.2/32	In: 143517.382 $\pm$ 0.034	χ^2 /NDF: 129257349486.5
Left In: 146020.015 $\pm$ 0.051	χ^2 /NDF: 4591425371.4/22	Out: 143694.678 $\pm$ 0.032	χ^2 /NDF: 155260091011.
		All: 143611.260 $\pm$ 0.023	χ^2 /NDF: 284531820

yield_bpm1i04WS_rms vs Slug, Sign Corrected



Right In: 152.765 $\pm$ 0.032 χ^2 /NDF: 6282356.0/27

Left Out: 201.632 $\pm$ 0.034 χ^2 /NDF:1589564.0/24

Right Out: 151.199 $\pm$ 0.030 χ^2 /NDF: 7501942.6/32

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

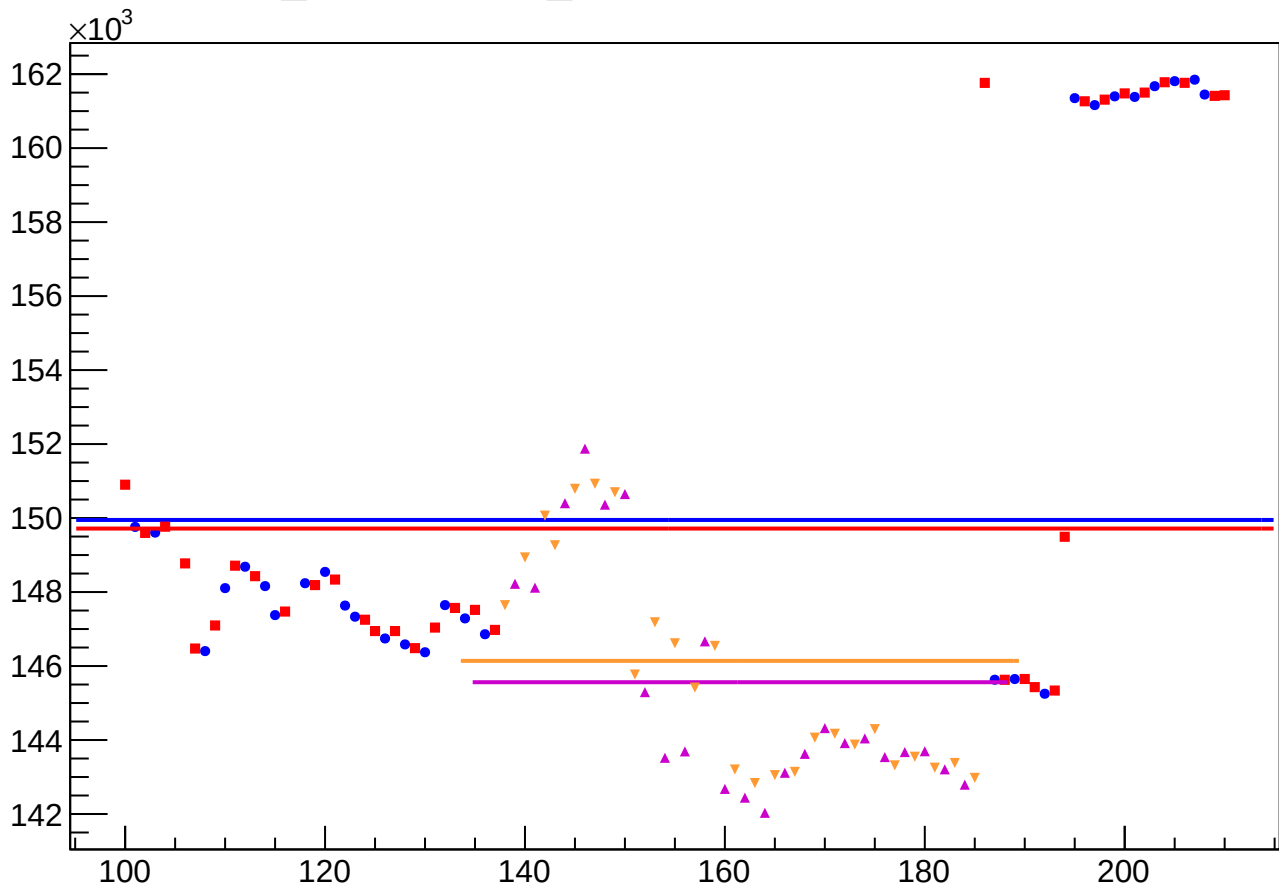
Right: 151.929 $\pm$ 0.022 χ^2 /NDF: 13785540.7/60

In: 176.459 $\pm$ 0.024 χ^2 /NDF:8887844.3/50

Out: 173.430 $\pm$ 0.023 χ^2 /NDF:10310609.7/57

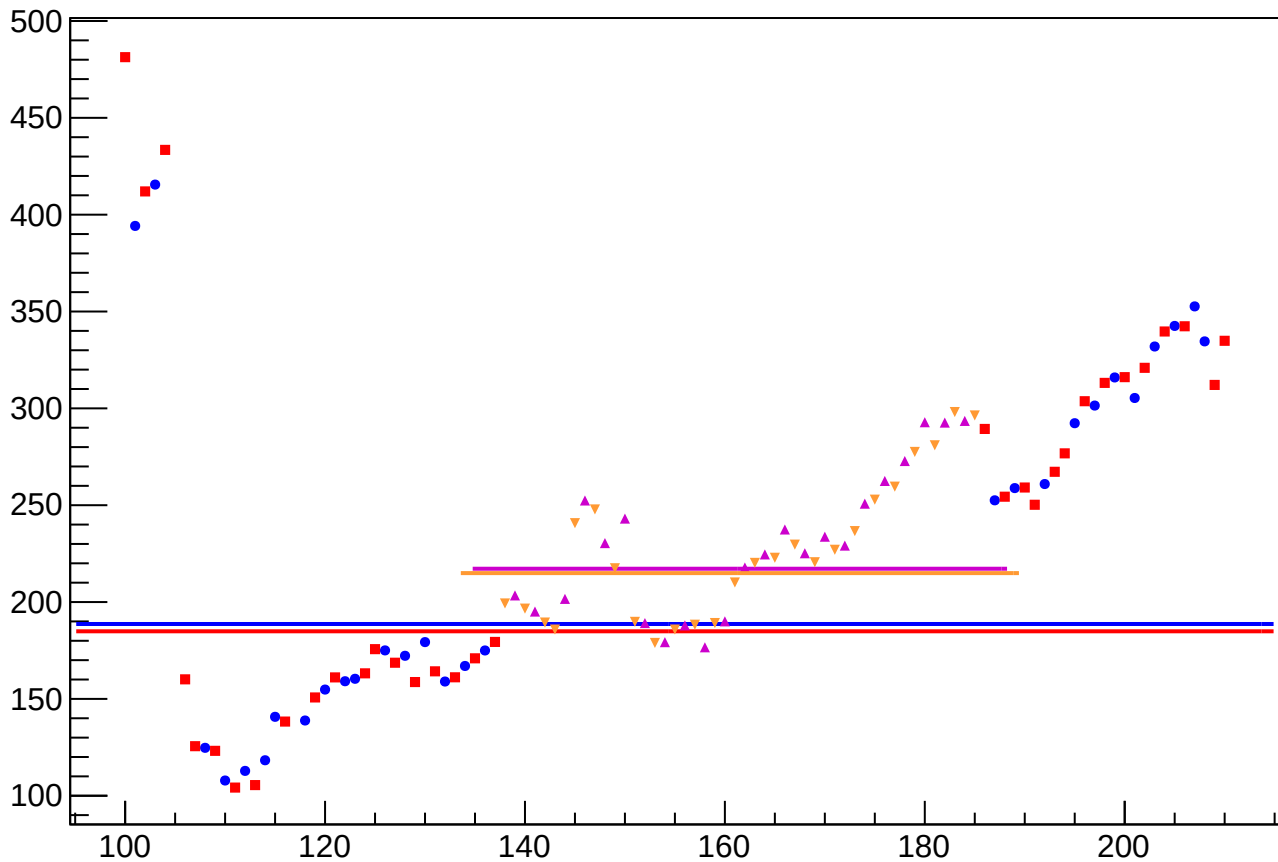
All: 174.855 $\pm$ 0.017 χ^2 /NDF: 19206850.8/10

yield_bpm1i06WS_mean vs Slug, Sign Corrected



Right In: 149948.587 $\pm$ 0.054	χ^2 /NDF: 10118135899.5/27	Left: 145862.850 $\pm$ 0.037	χ^2 /NDF: 5815743509.5/27
Left Out: 146139.326 $\pm$ 0.051	χ^2 /NDF: 2699546907.6/24	Right: 149822.618 $\pm$ 0.037	χ^2 /NDF: 20687995877.9/24
Right Out: 149715.856 $\pm$ 0.050	χ^2 /NDF: 10559933830.1/32	In: 147703.297 $\pm$ 0.038	χ^2 /NDF: 16507226647.1/32
Left In: 145562.386 $\pm$ 0.053	χ^2 /NDF: 3054641996.0/22	Out: 147958.545 $\pm$ 0.036	χ^2 /NDF: 15770313064.4/22
		All: 147838.835 $\pm$ 0.026	χ^2 /NDF: 323015378.0/22

yield_bpm1i06WS_rms vs Slug, Sign Corrected



Right In: 188.673 $\pm$ 0.038 χ^2/NDF : 4319194.1/27

Left Out: 214.945 $\pm$ 0.036 χ^2/NDF : 728515.5/24

Right Out: 184.898 $\pm$ 0.035 χ^2/NDF : 5130785.1/32

Left In: 217.203 $\pm$ 0.038 χ^2/NDF : 764798.3/22

Left: 216.027 $\pm$ 0.026 χ^2/NDF : 1495200.1/47

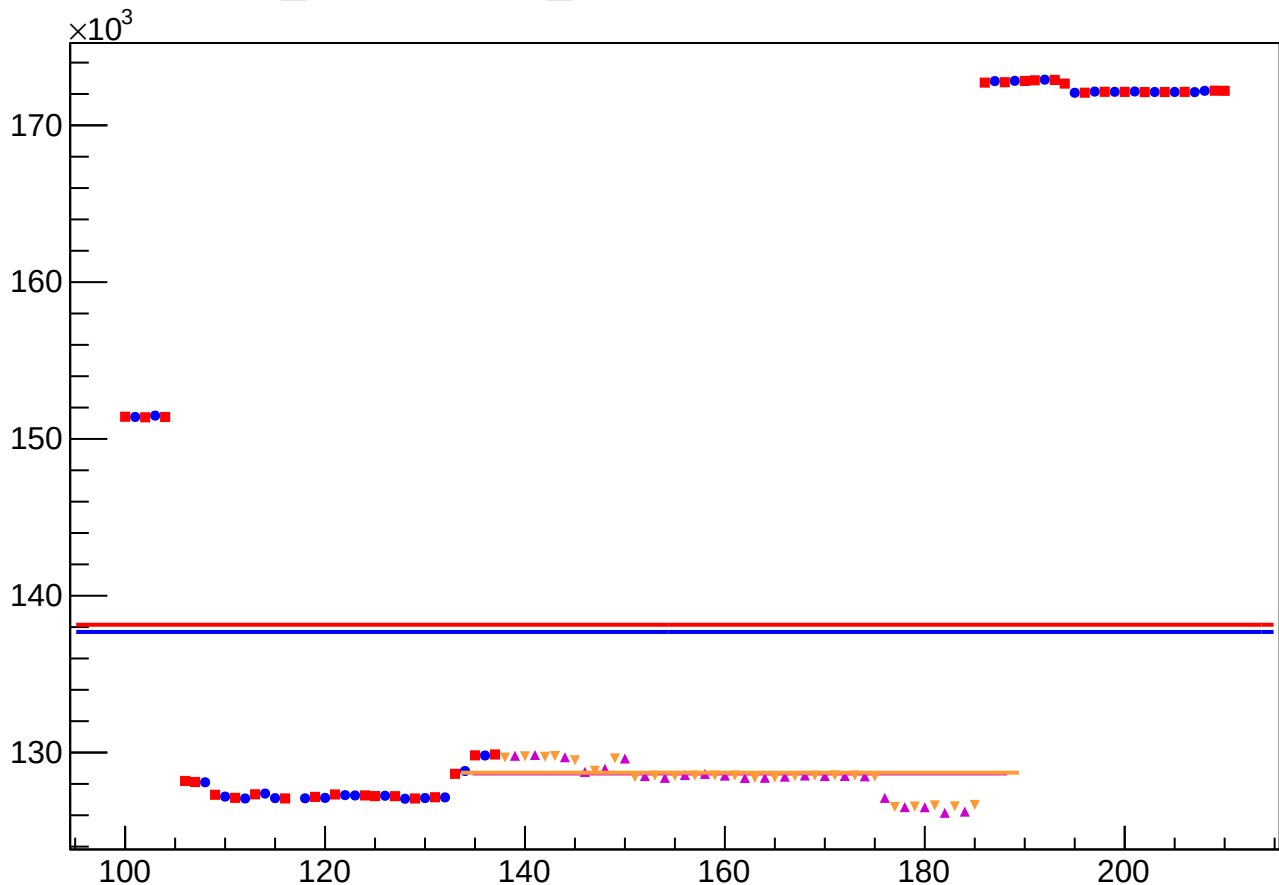
Right: 186.630 $\pm$ 0.026 χ^2/NDF : 9455201.5/60

In: 203.277 $\pm$ 0.027 χ^2/NDF : 5366156.8/50

Out: 199.661 $\pm$ 0.025 χ^2/NDF : 6213727.1/57

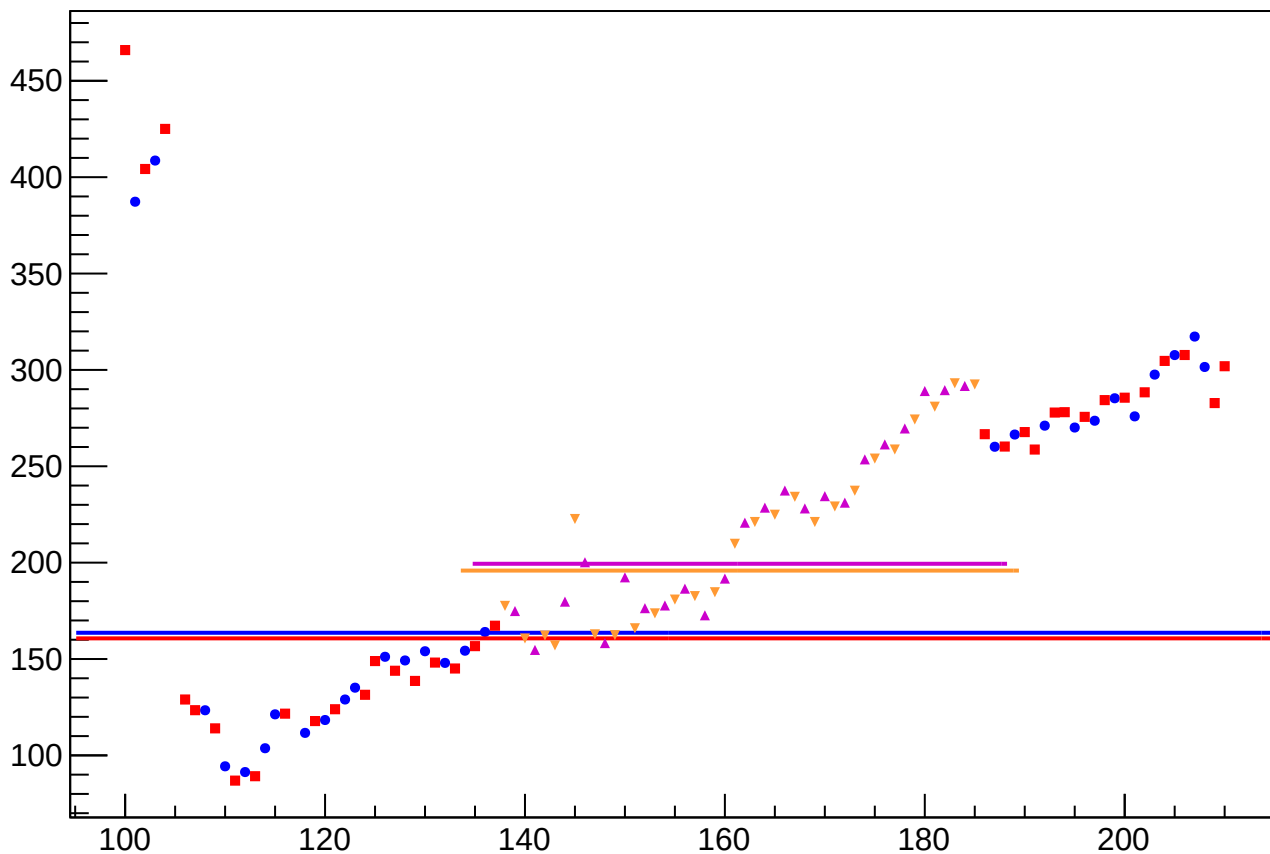
All: 201.357 $\pm$ 0.018 χ^2/NDF : 11589516.6/10

yield_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: 137689.751 $\pm$ 0.048 χ^2 /NDF: 150195125937.2/27
 Left Out: 128714.507 $\pm$ 0.047 χ^2 /NDF: 348178101.1/24
 Right Out: 138150.270 $\pm$ 0.044 χ^2 /NDF: 182731010136.6/32
 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: 137938.481 $\pm$ 0.033 χ^2 /NDF: 332976007142
 In: 133277.740 $\pm$ 0.034 χ^2 /NDF: 167860197360.9
 Out: 133689.033 $\pm$ 0.032 χ^2 /NDF: 204603576888.
 All: 133496.693 $\pm$ 0.023 χ^2 /NDF: 372540500

yield_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 163.613 $\pm$ 0.034 χ^2 /NDF: 5103947.9/27

Left Out: 195.883 $\pm$ 0.033 χ^2 /NDF:1313361.5/24

Right Out: 160.708 $\pm$ 0.031 χ^2 /NDF: 6074282.8/32

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

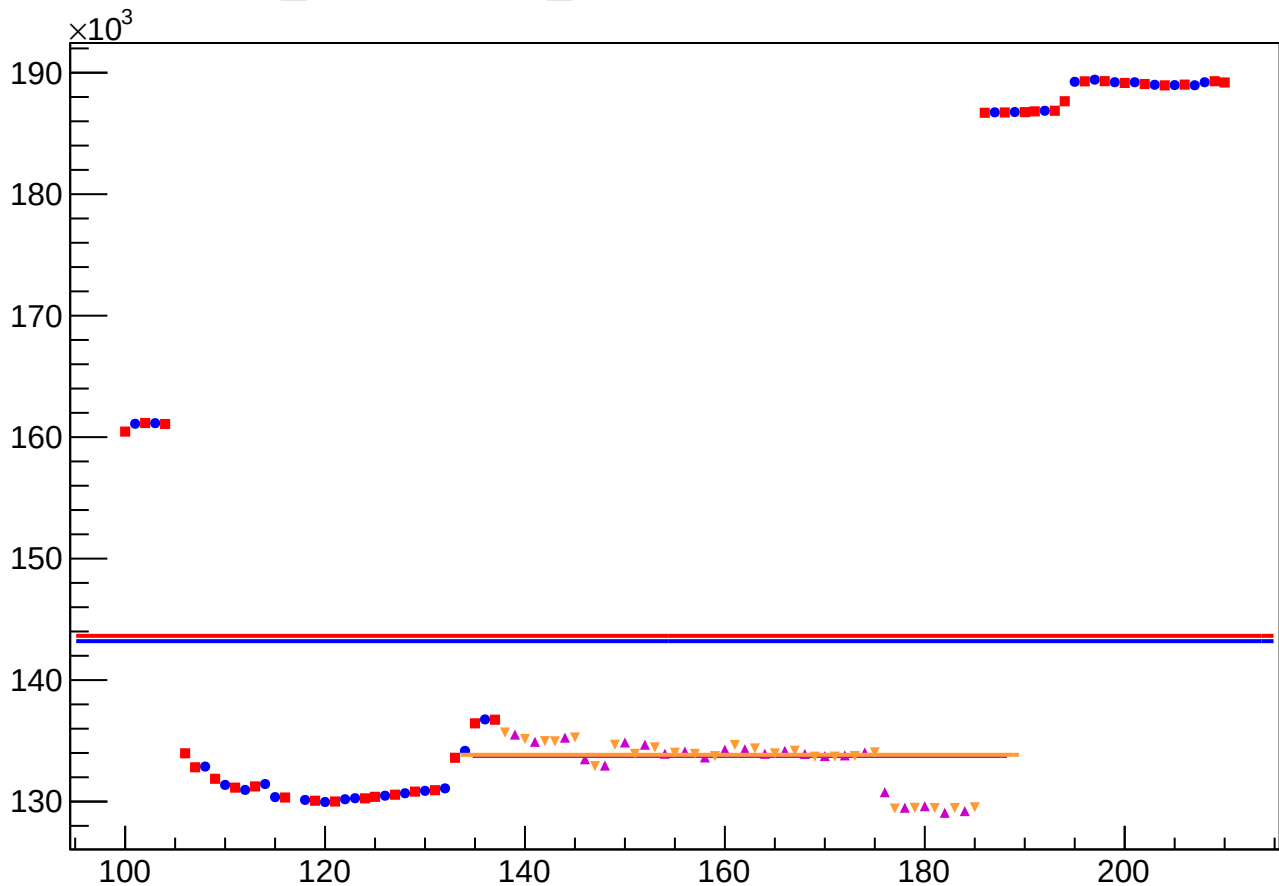
Right: 162.044 $\pm$ 0.023 χ^2 /NDF: 11182201.9/60

In: 181.119 $\pm$ 0.024 χ^2 /NDF:6815367.9/50

Out: 177.338 $\pm$ 0.023 χ^2 /NDF:7985888.7/57

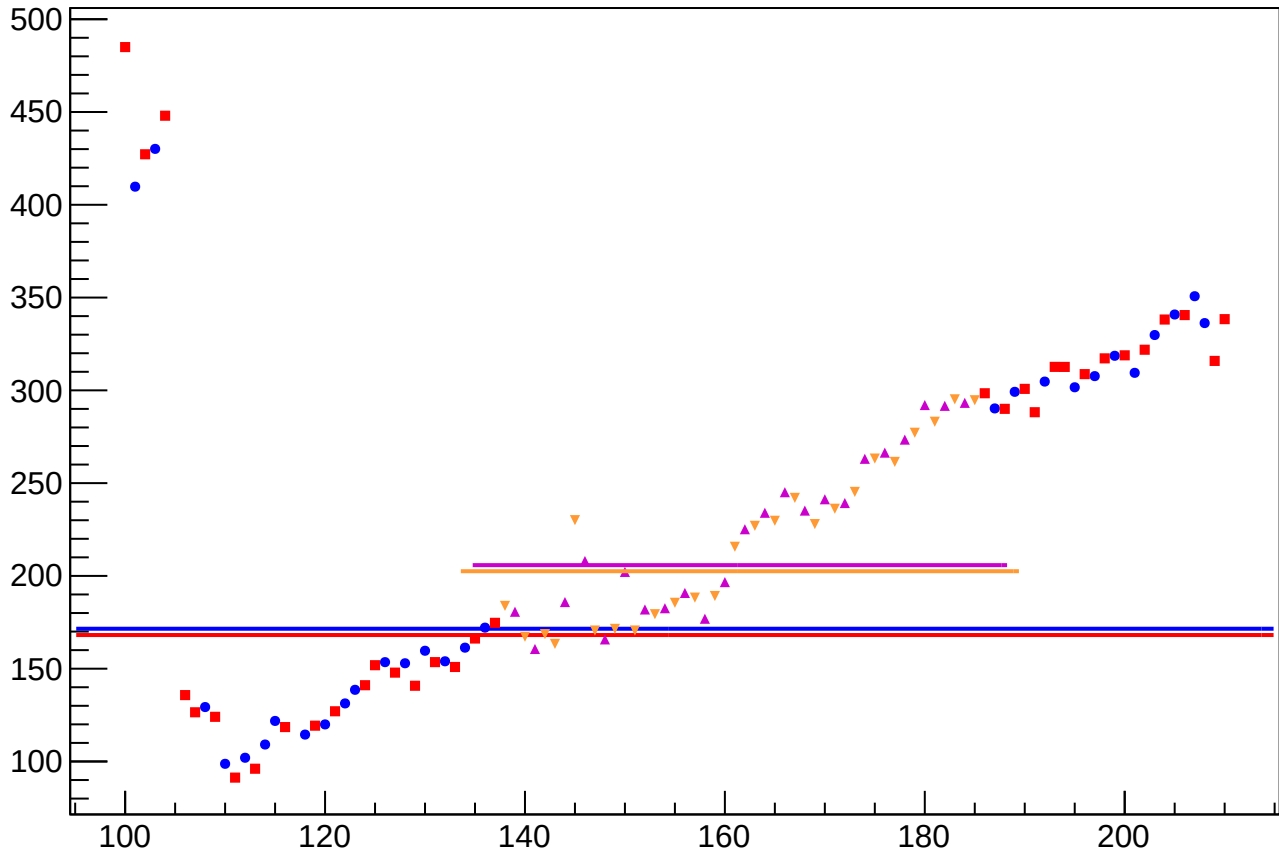
All: 179.107 $\pm$ 0.017 χ^2 /NDF: 14814223.5/10

yield_bpm2i02WS_mean vs Slug, Sign Corrected



Right In: 143204.610 $\pm$ 0.051 χ^2 /NDF: 202957112598.9/27
 Left Out: 133850.586 $\pm$ 0.048 χ^2 /NDF: 1080107831.1/24
 Right Out: 143643.381 $\pm$ 0.047 χ^2 /NDF: 242521466418.8/32
 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: 143441.679 $\pm$ 0.034 χ^2 /NDF: 445518975412
 In: 138455.675 $\pm$ 0.036 χ^2 /NDF: 221348846400.3
 Out: 138892.732 $\pm$ 0.034 χ^2 /NDF: 264836570593.
 All: 138688.135 $\pm$ 0.024 χ^2 /NDF: 486264689

yield_bpm2i02WS_rms vs Slug, Sign Corrected



Right In: 171.533 $\pm$ 0.036 χ^2 /NDF: 5558387.9/27

Left Out: 202.527 $\pm$ 0.034 χ^2 /NDF:1211991.5/24

Right Out: 168.140 $\pm$ 0.033 χ^2 /NDF: 6678059.8/32

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

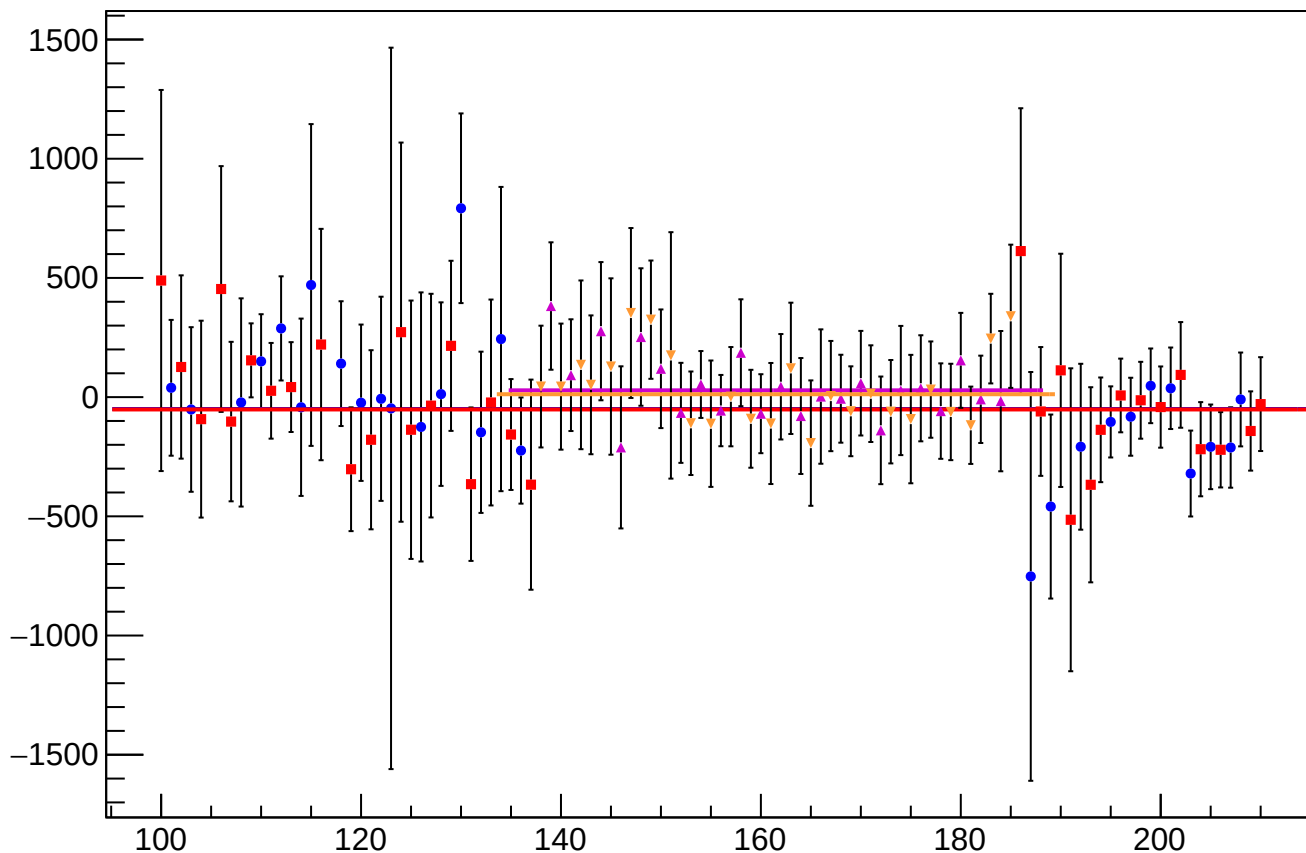
Right: 169.700 $\pm$ 0.024 χ^2 /NDF: 12241279.7/60

In: 188.748 $\pm$ 0.025 χ^2 /NDF:7111011.3/50

Out: 184.822 $\pm$ 0.024 χ^2 /NDF:8413730.4/57

All: 186.660 $\pm$ 0.017 χ^2 /NDF: 15537537.9/100

asym_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: -49.844 ± 46.802 χ^2/NDF : 16.9/27

Left Out: 12.180 ± 47.531 χ^2/NDF : 8.6/24

Right Out: -51.717 ± 44.005 χ^2/NDF : 13.0/32

Left In: 28.452 ± 44.688 χ^2/NDF : 6.7/22

Left: 20.817 ± 32.558 χ^2/NDF : 15.3/47

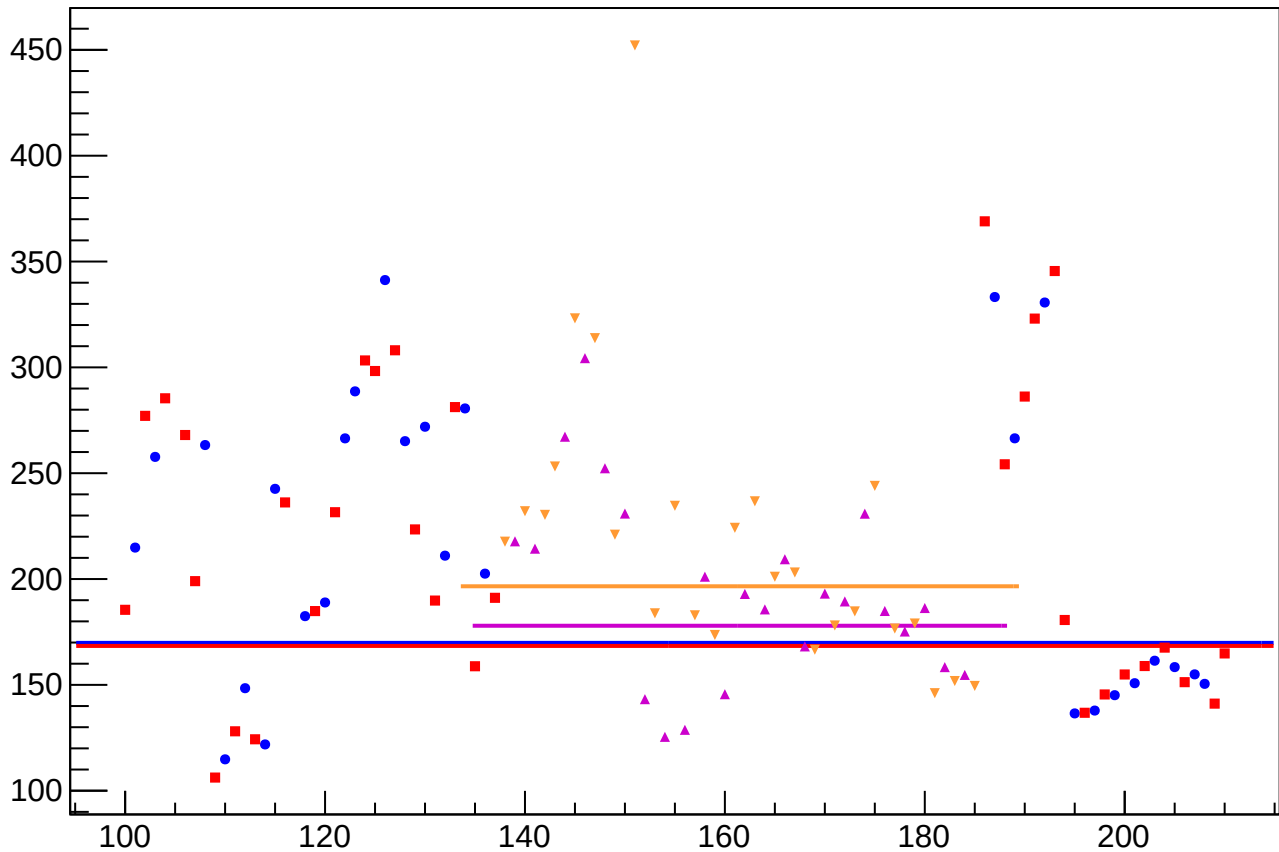
Right: -50.838 ± 32.059 χ^2/NDF : 30.0/60

In: -8.888 ± 32.321 χ^2/NDF : 25.0/50

Out: -22.226 ± 32.291 χ^2/NDF : 22.6/57

All: -15.563 ± 22.844 χ^2/NDF : 47.7/108

asym_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 169.841 $\pm$ 0.033 χ^2 /NDF: 2123141.4/27

Left Out: 196.576 $\pm$ 0.034 χ^2 /NDF:1778719.0/24

Right Out: 168.398 $\pm$ 0.031 χ^2 /NDF: 2839265.1/32

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

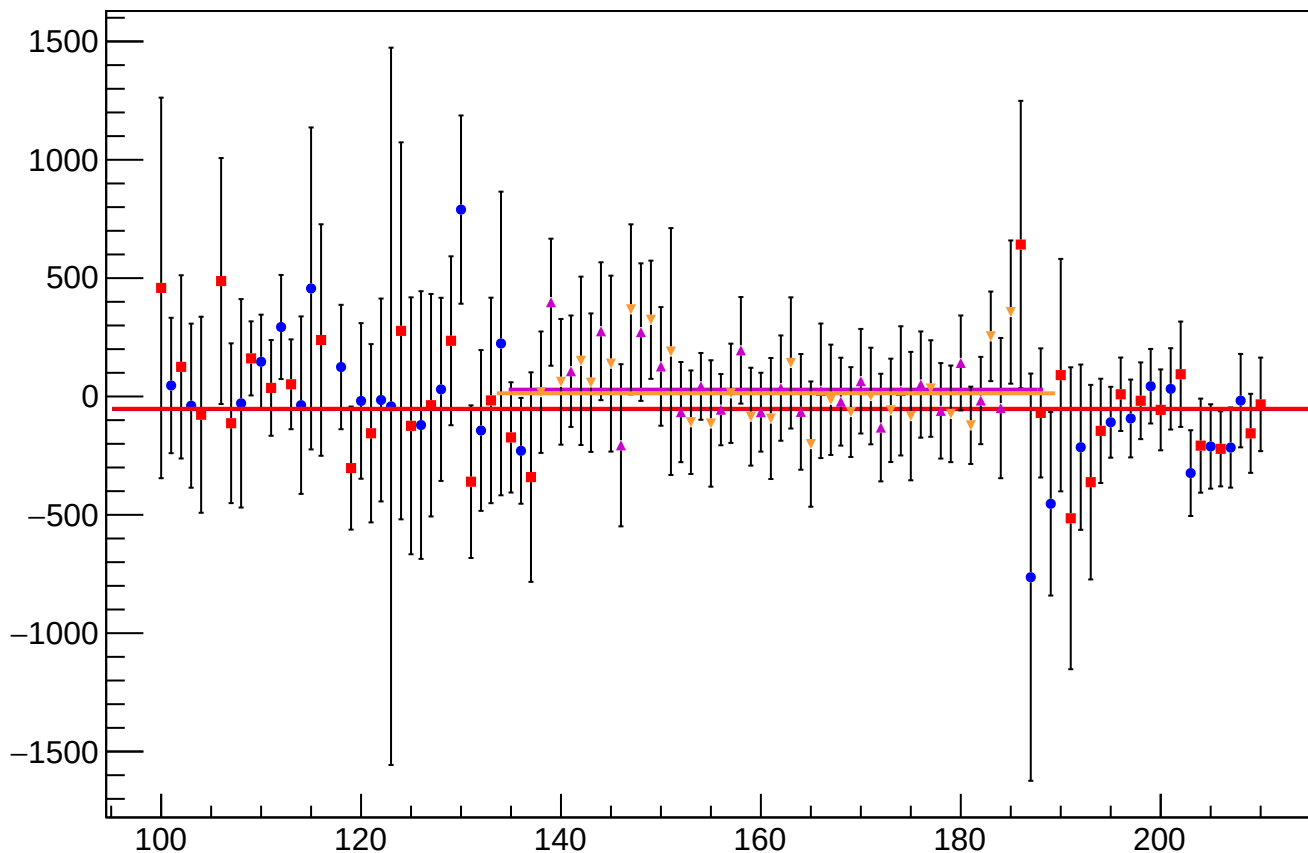
Right: 169.075 $\pm$ 0.023 χ^2 /NDF: 4963414.4/60

In: 174.074 $\pm$ 0.023 χ^2 /NDF:3760199.3/50

Out: 181.403 $\pm$ 0.023 χ^2 /NDF:4996466.8/57

All: 177.742 $\pm$ 0.016 χ^2 /NDF: 8808146.2/108

asym_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: -53.259 ± 47.023 $\chi^2/\text{NDF}: 16.8/27$

Left Out: 13.395 ± 47.862 $\chi^2/\text{NDF}: 9.0/24$

Right Out: -52.036 ± 44.221 $\chi^2/\text{NDF}: 13.3/32$

Left In: 28.806 ± 44.980 $\chi^2/\text{NDF}: 6.8/22$

Left: 21.578 ± 32.777 $\chi^2/\text{NDF}: 15.9/47$

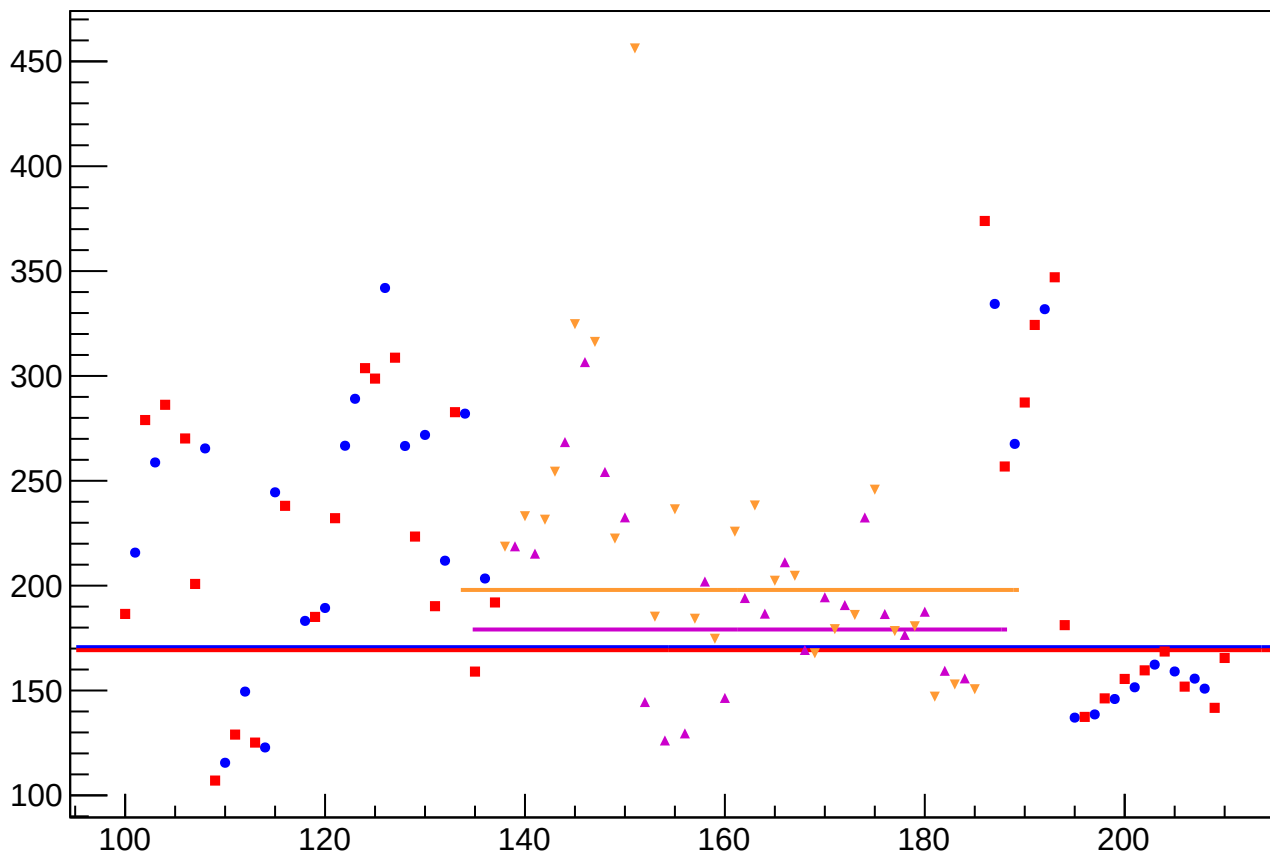
Right: -52.610 ± 32.214 $\chi^2/\text{NDF}: 30.2/60$

In: -10.405 ± 32.504 $\chi^2/\text{NDF}: 25.3/50$

Out: -21.904 ± 32.480 $\chi^2/\text{NDF}: 23.3/57$

All: -16.158 ± 22.975 $\chi^2/\text{NDF}: 48.6/108$

asym_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 170.669 $\pm$ 0.033 χ^2 /NDF: 2114873.0/27

Left Out: 197.953 $\pm$ 0.034 χ^2 /NDF:1774524.3/24

Right Out: 169.235 $\pm$ 0.031 χ^2 /NDF: 2835354.0/32

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

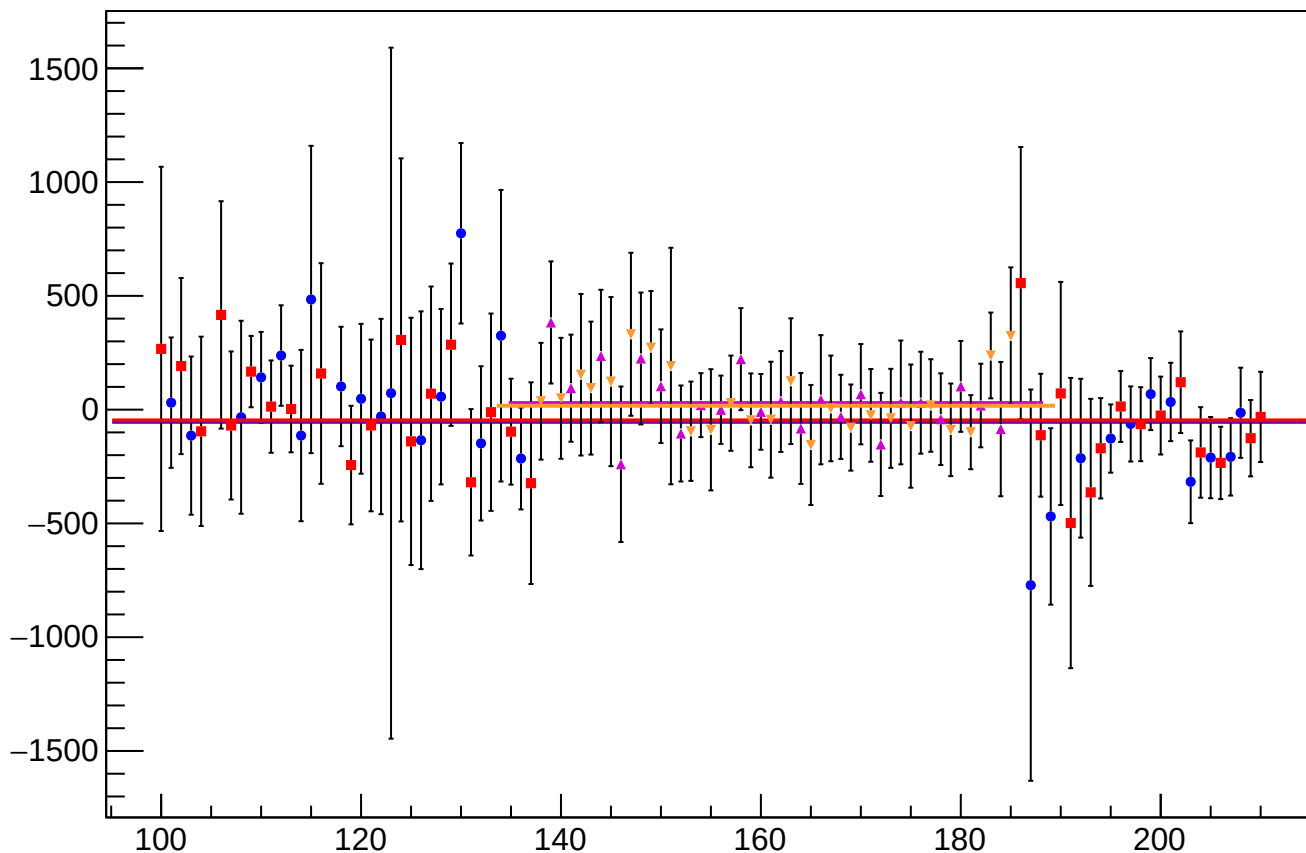
Right: 169.908 $\pm$ 0.023 χ^2 /NDF: 4951213.0/60

In: 175.066 $\pm$ 0.023 χ^2 /NDF:3753480.5/50

Out: 182.460 $\pm$ 0.023 χ^2 /NDF:4998301.2/57

All: 178.766 $\pm$ 0.016 χ^2 /NDF: 8803569.4/108

asym_bcm_an_us_mean vs Slug, Sign Corrected



Right In: -53.111 ± 47.105 $\chi^2/\text{NDF}: 16.2/27$

Left Out: 17.142 ± 47.738 $\chi^2/\text{NDF}: 7.1/24$

Right Out: -47.435 ± 44.249 $\chi^2/\text{NDF}: 11.9/32$

Left In: 28.655 ± 44.859 $\chi^2/\text{NDF}: 6.1/22$

Left: 23.256 ± 32.690 $\chi^2/\text{NDF}: 13.2/47$

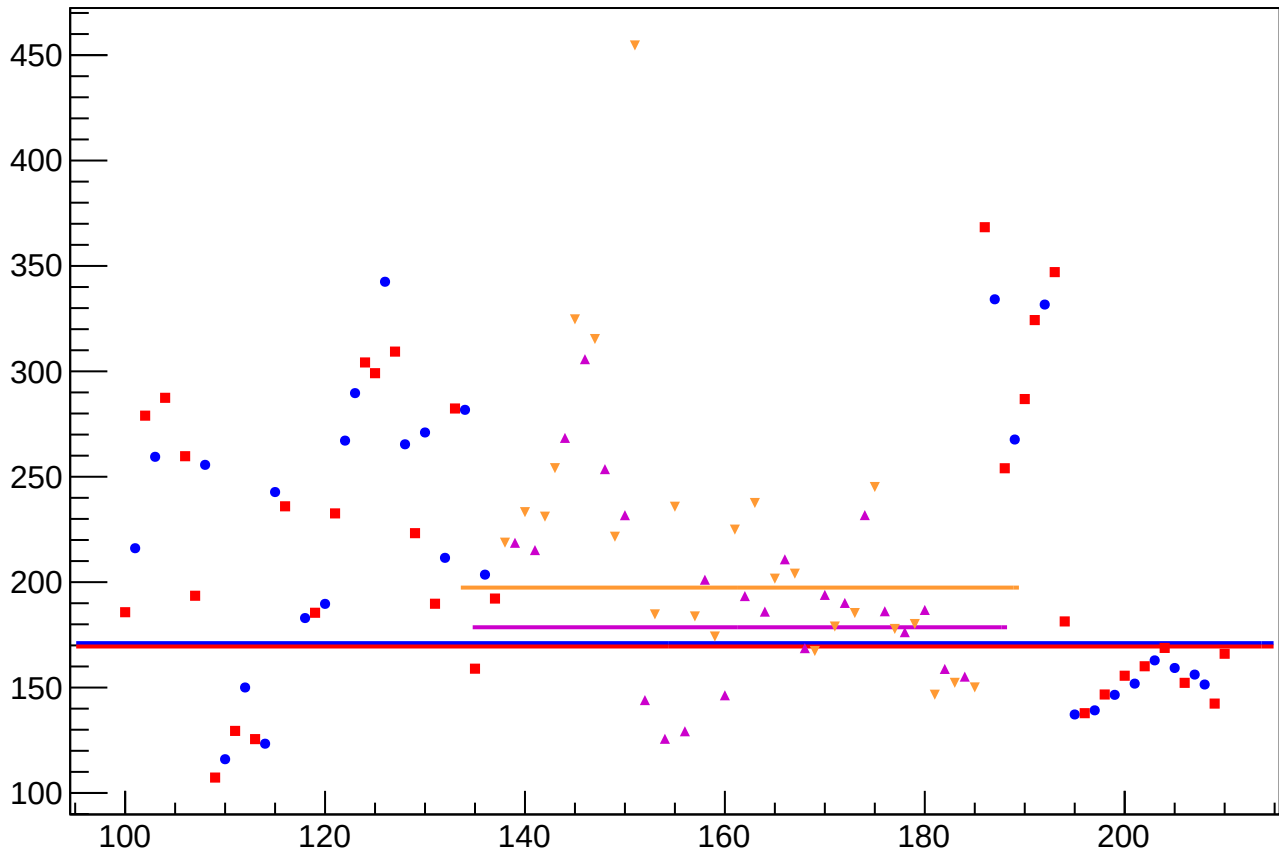
Right: -50.096 ± 32.251 $\chi^2/\text{NDF}: 28.1/60$

In: -10.232 ± 32.485 $\chi^2/\text{NDF}: 24.0/50$

Out: -17.592 ± 32.452 $\chi^2/\text{NDF}: 20.0/57$

All: -13.916 ± 22.959 $\chi^2/\text{NDF}: 43.9/108$

asym_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 171.069+/-0.033 χ^2/NDF : 2083120.3/27

Left Out: 197.422+/-0.034 χ^2/NDF : 1780261.9/24

Right Out: 169.476+/-0.031 χ^2/NDF : 2787630.1/32

Left In: 178.601+/-0.032 χ^2/NDF : 1608998.1/22

Left: 187.427+/-0.023 χ^2/NDF : 3554344.1/47

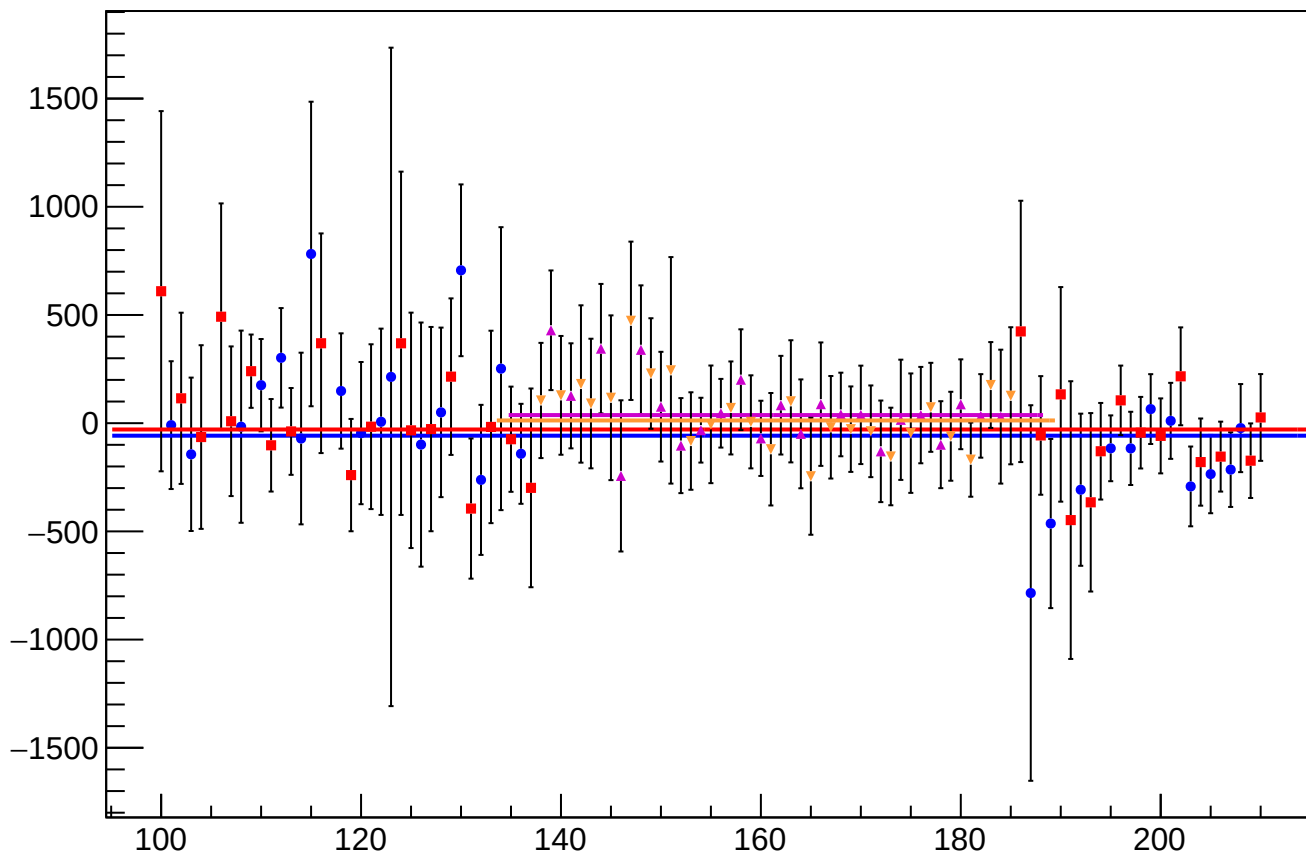
Right: 170.223+/-0.023 χ^2/NDF : 4871964.9/60

In: 175.019+/-0.023 χ^2/NDF : 3718938.0/50

Out: 182.391+/-0.023 χ^2/NDF : 4936540.1/57

All: 178.708+/-0.016 χ^2/NDF : 8707026.1/108

asym_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: -57.816 ± 48.162 $\chi^2/\text{NDF}: 17.0/27$

Left Out: 12.632 ± 49.242 $\chi^2/\text{NDF}: 7.5/24$

Right Out: -29.149 ± 45.446 $\chi^2/\text{NDF}: 13.9/32$

Left In: 37.460 ± 46.479 $\chi^2/\text{NDF}: 7.6/22$

Left: 25.762 ± 33.800 $\chi^2/\text{NDF}: 15.3/47$

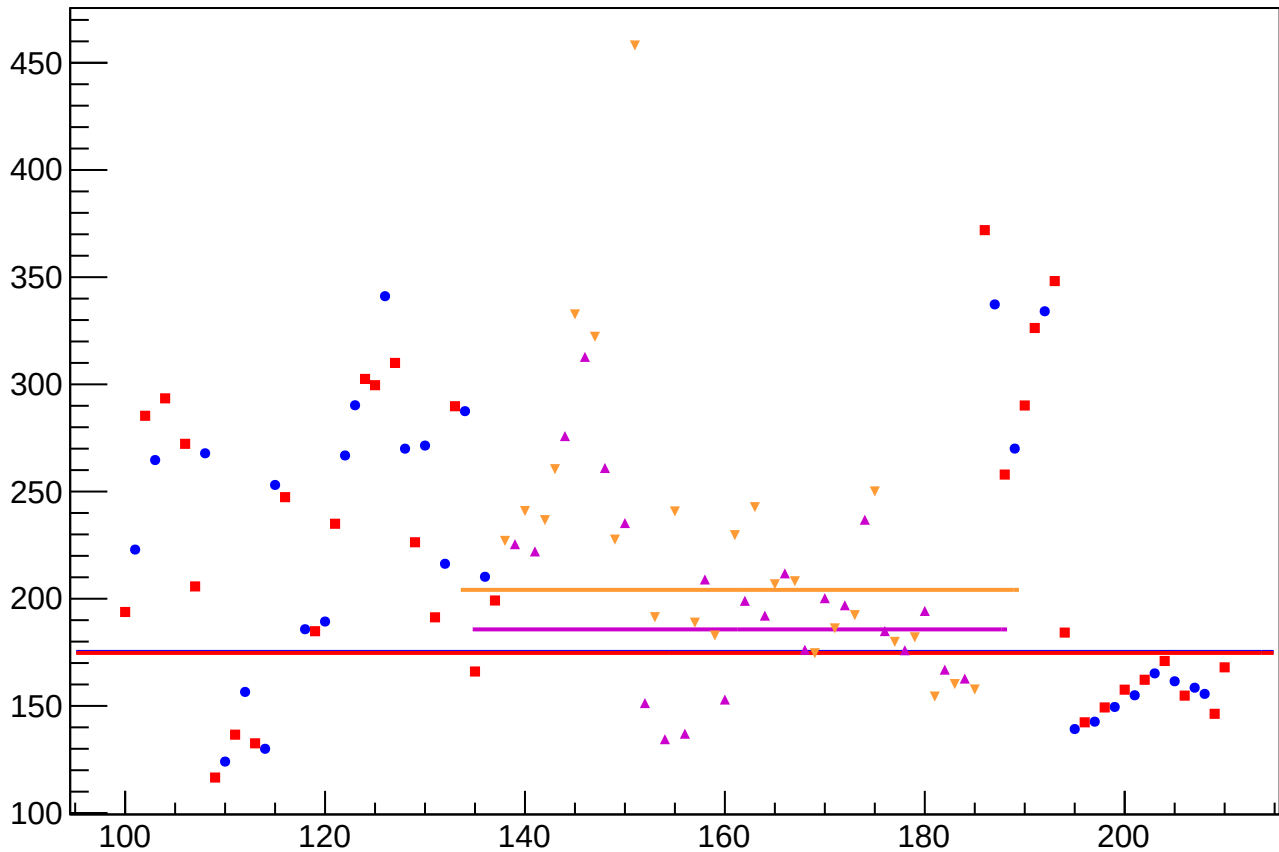
Right: -42.651 ± 33.054 $\chi^2/\text{NDF}: 31.1/60$

In: -8.484 ± 33.445 $\chi^2/\text{NDF}: 26.7/50$

Out: -9.930 ± 33.397 $\chi^2/\text{NDF}: 21.8/57$

All: -9.208 ± 23.632 $\chi^2/\text{NDF}: 48.5/108$

asym_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 175.186 $\pm$ 0.034 χ^2 /NDF: 2009647.6/27

Left Out: 204.132 $\pm$ 0.035 χ^2 /NDF:1672287.6/24

Right Out: 174.724 $\pm$ 0.032 χ^2 /NDF: 2608336.1/32

Left In: 185.694 $\pm$ 0.033 χ^2 /NDF:1447767.0/22

Left: 194.381 $\pm$ 0.024 χ^2 /NDF: 3268347.9/47

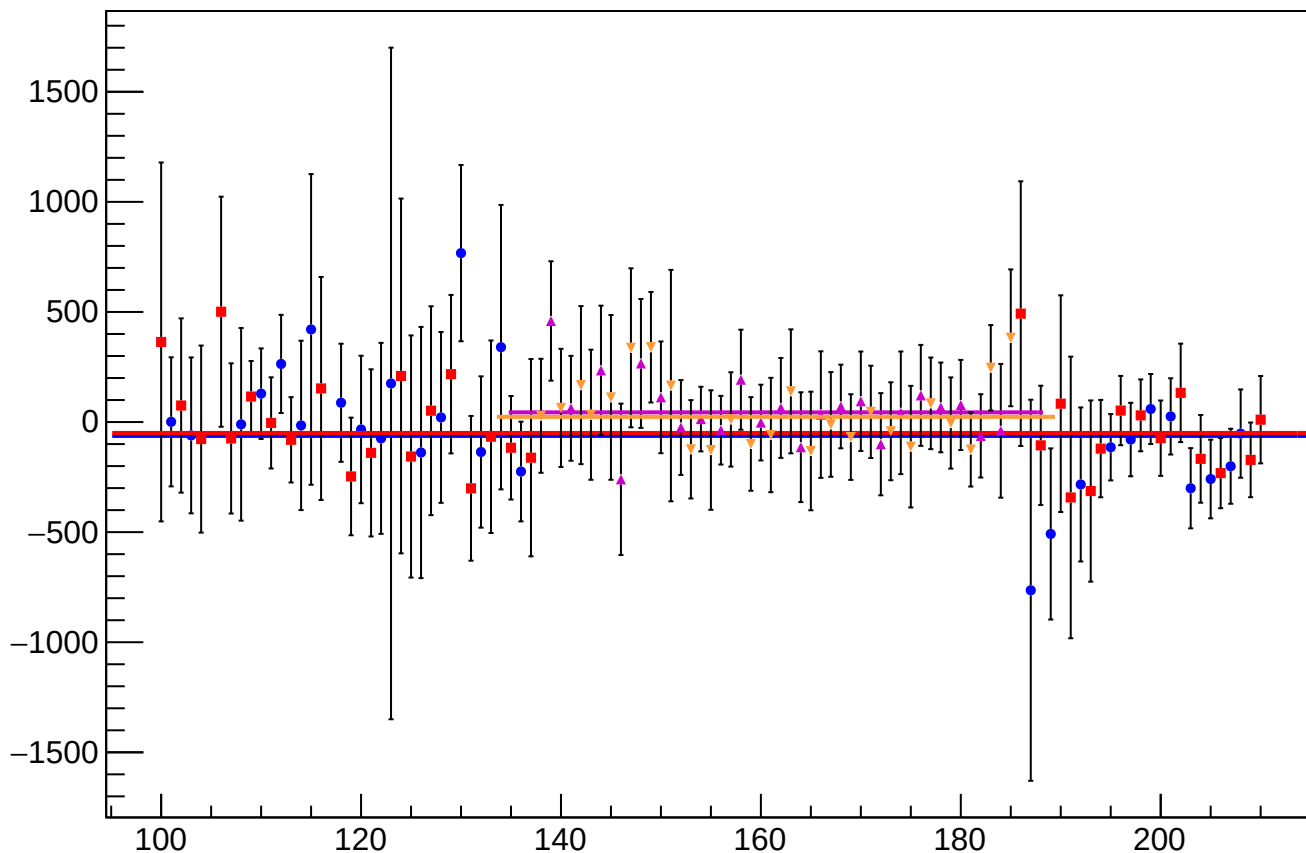
Right: 174.942 $\pm$ 0.023 χ^2 /NDF: 4618081.0/60

In: 180.627 $\pm$ 0.024 χ^2 /NDF:3506703.3/50

Out: 188.251 $\pm$ 0.024 χ^2 /NDF:4665824.7/57

All: 184.444 $\pm$ 0.017 χ^2 /NDF: 8224570.1/108

asym_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: -62.941 ± 47.554 $\chi^2/\text{NDF}: 16.1/27$

Left Out: 23.843 ± 48.783 $\chi^2/\text{NDF}: 8.5/24$

Right Out: -49.445 ± 44.735 $\chi^2/\text{NDF}: 10.1/32$

Left In: 43.978 ± 45.981 $\chi^2/\text{NDF}: 6.5/22$

Left: 34.506 ± 33.460 $\chi^2/\text{NDF}: 15.1/47$

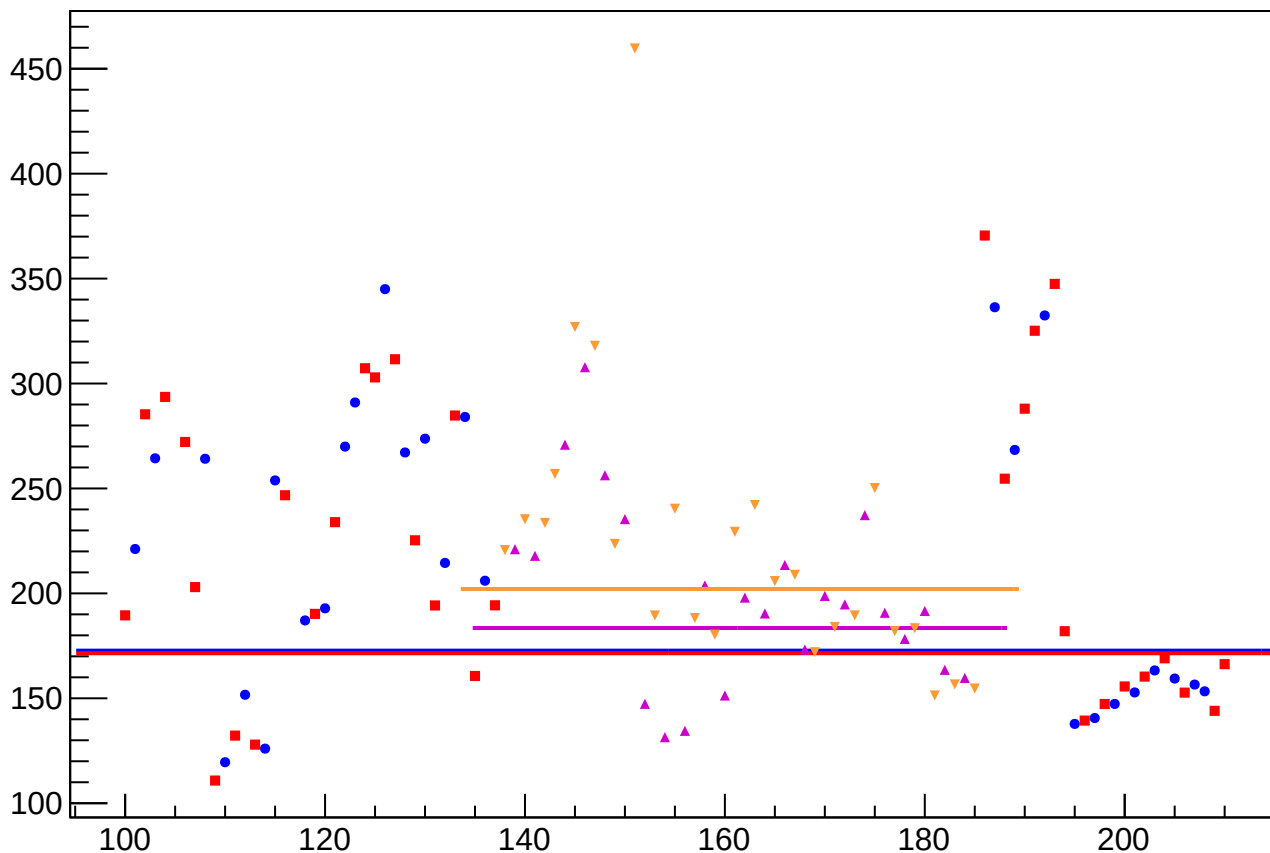
Right: -55.782 ± 32.584 $\chi^2/\text{NDF}: 26.3/60$

In: -7.684 ± 33.056 $\chi^2/\text{NDF}: 25.3/50$

Out: -15.967 ± 32.971 $\chi^2/\text{NDF}: 19.8/57$

All: -11.836 ± 23.344 $\chi^2/\text{NDF}: 45.1/108$

asym_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 172.707 $\pm$ 0.034

χ^2 /NDF: 2091388.2/27

Left Out: 202.081 $\pm$ 0.034

χ^2 /NDF:1692787.9/24

Right Out: 171.474 $\pm$ 0.032

χ^2 /NDF: 2767958.3/32

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: 172.053 $\pm$ 0.023

χ^2 /NDF: 4860059.2/60

In: 178.284 $\pm$ 0.023

χ^2 /NDF:3628000.0/50

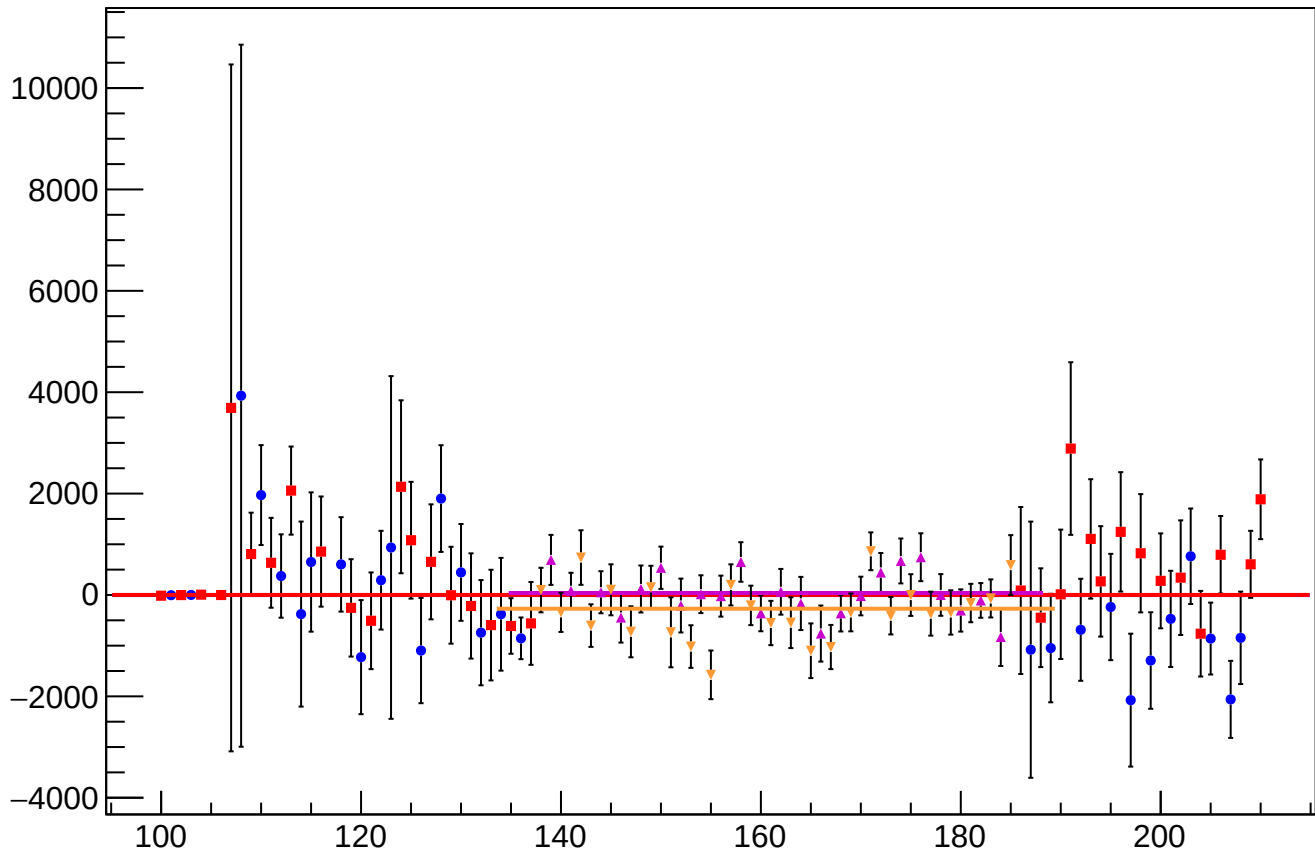
Out: 185.455 $\pm$ 0.023

χ^2 /NDF:4888386.0/57

All: 181.879 $\pm$ 0.017

χ^2 /NDF: 8563573.4/108

asym_cav4bQ_mean vs Slug, Sign Corrected



Right In: -1.583 ± 2.251 χ^2/NDF : 34.0/27

Left Out: -270.969 ± 86.967 χ^2/NDF : 38.1/24

Right Out: 0.763 ± 2.111 χ^2/NDF : 33.4/32

Left In: 39.078 ± 87.769 χ^2/NDF : 20.3/22

Left: -117.369 ± 61.777 χ^2/NDF : 64.7/47

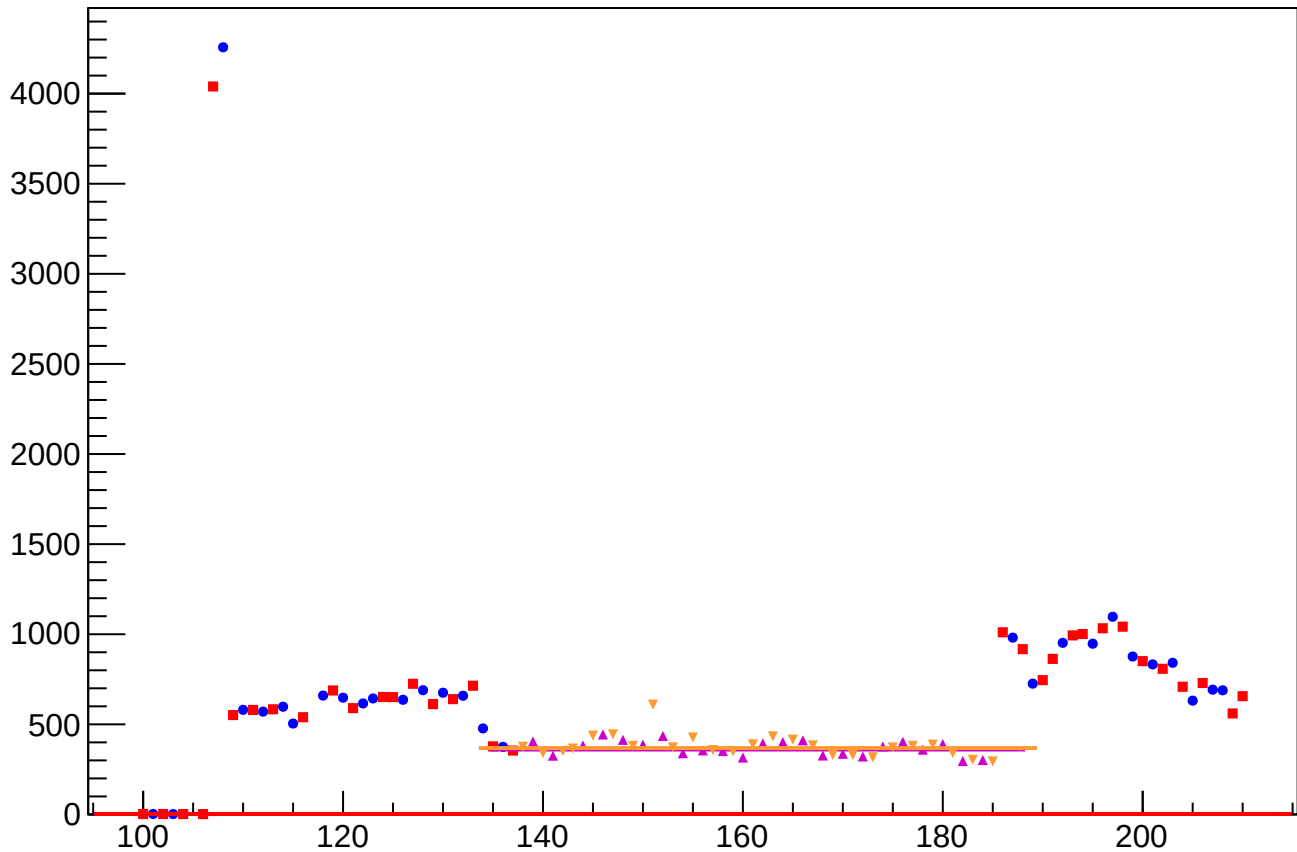
Right: -0.335 ± 1.540 χ^2/NDF : 68.0/60

In: -1.556 ± 2.251 χ^2/NDF : 54.5/50

Out: 0.603 ± 2.110 χ^2/NDF : 81.3/57

All: -0.407 ± 1.539 χ^2/NDF : 136.2/108

asym_cav4bQ_rms vs Slug, Sign Corrected



Right In: 2.504 $\pm$ 0.002 χ^2 /NDF: 25985483.0/27

Left Out: 368.397 $\pm$ 0.061 χ^2 /NDF:622466.1/24

Right Out: 2.487 $\pm$ 0.001 χ^2 /NDF: 29695105.5/32

Left In: 360.408 $\pm$ 0.062 χ^2 /NDF:417739.4/22

Left: 364.439 $\pm$ 0.044 χ^2 /NDF: 1048566.0/47

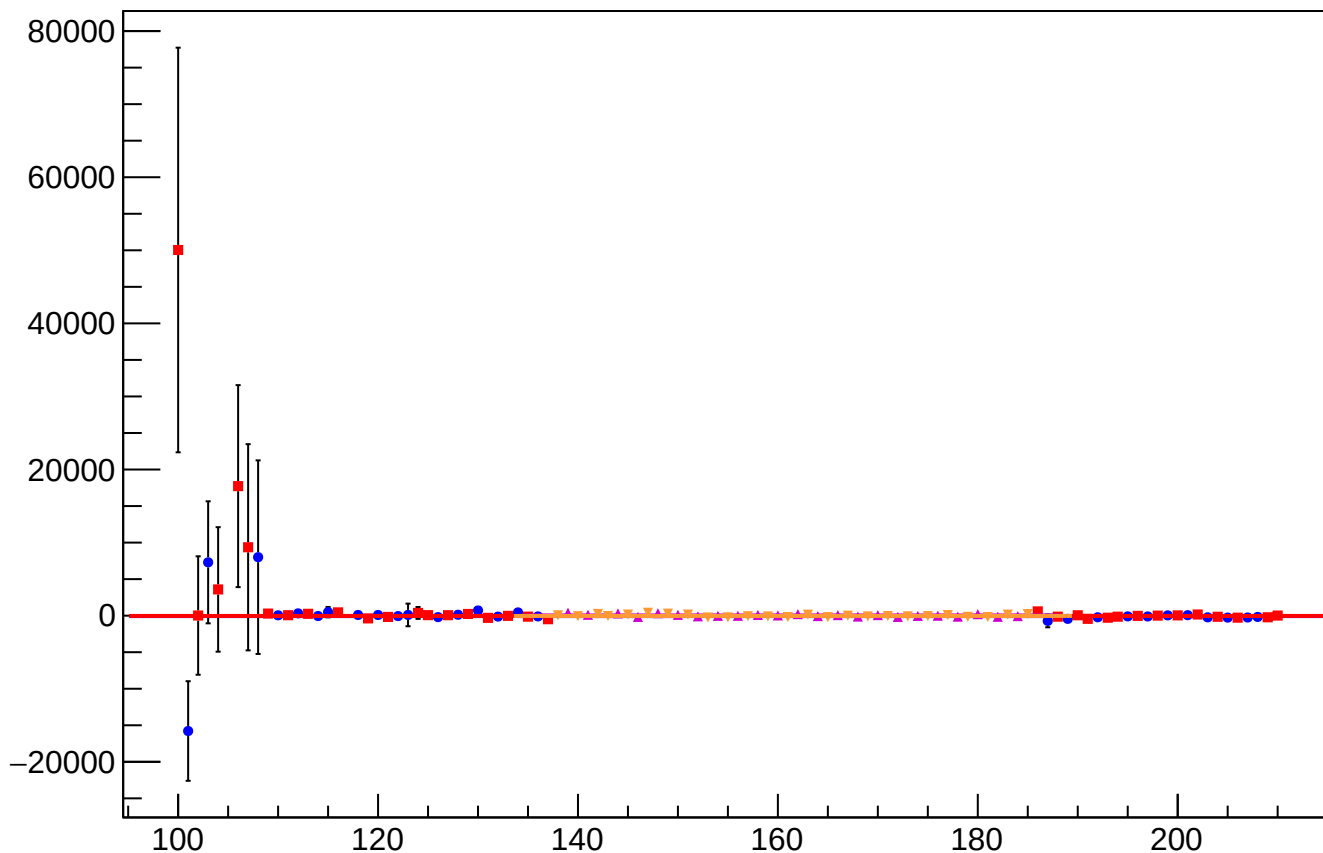
Right: 2.495 $\pm$ 0.001 χ^2 /NDF: 55680646.9/60

In: 2.739 $\pm$ 0.002 χ^2 /NDF:59637930.3/50

Out: 2.702 $\pm$ 0.001 χ^2 /NDF:65701875.2/57

All: 2.720 $\pm$ 0.001 χ^2 /NDF: 125340085.8/108

asym_cav4cQ_mean vs Slug, Sign Corrected



Right In: -57.197+/-52.064 χ^2/NDF : 20.9/27

Left Out: -38.013+/-49.628 χ^2/NDF : 9.3/24

Right Out: -37.543+/-49.558 χ^2/NDF : 21.1/32

Left In: 28.205+/-48.167 χ^2/NDF : 9.2/22

Left: -3.915+/-34.564 χ^2/NDF : 19.4/47

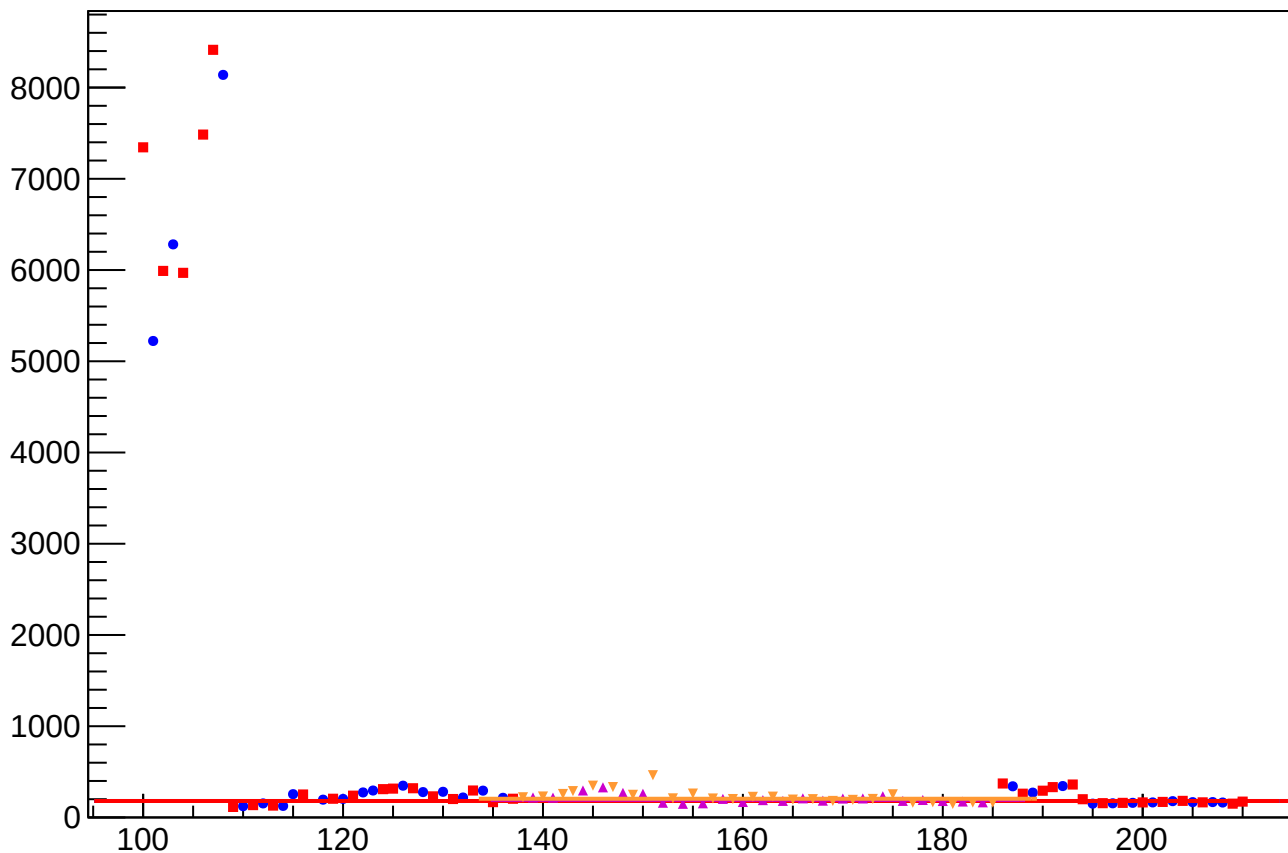
Right: -46.885+/-35.896 χ^2/NDF : 42.1/60

In: -11.181+/-35.357 χ^2/NDF : 31.6/50

Out: -37.778+/-35.067 χ^2/NDF : 30.4/57

All: -24.588+/-24.898 χ^2/NDF : 62.2/108

asym_cav4cQ_rms vs Slug, Sign Corrected



Right In: 180.488+/-0.037 χ^2/NDF : 4520870.2/27

Left Out: 205.027+/-0.035 χ^2/NDF :1956045.1/24

Right Out: 180.382+/-0.035 χ^2/NDF : 5416940.4/32

Left In: 193.405+/-0.034 χ^2/NDF :1172169.3/22

Left: 199.042+/-0.024 χ^2/NDF : 3184695.4/47

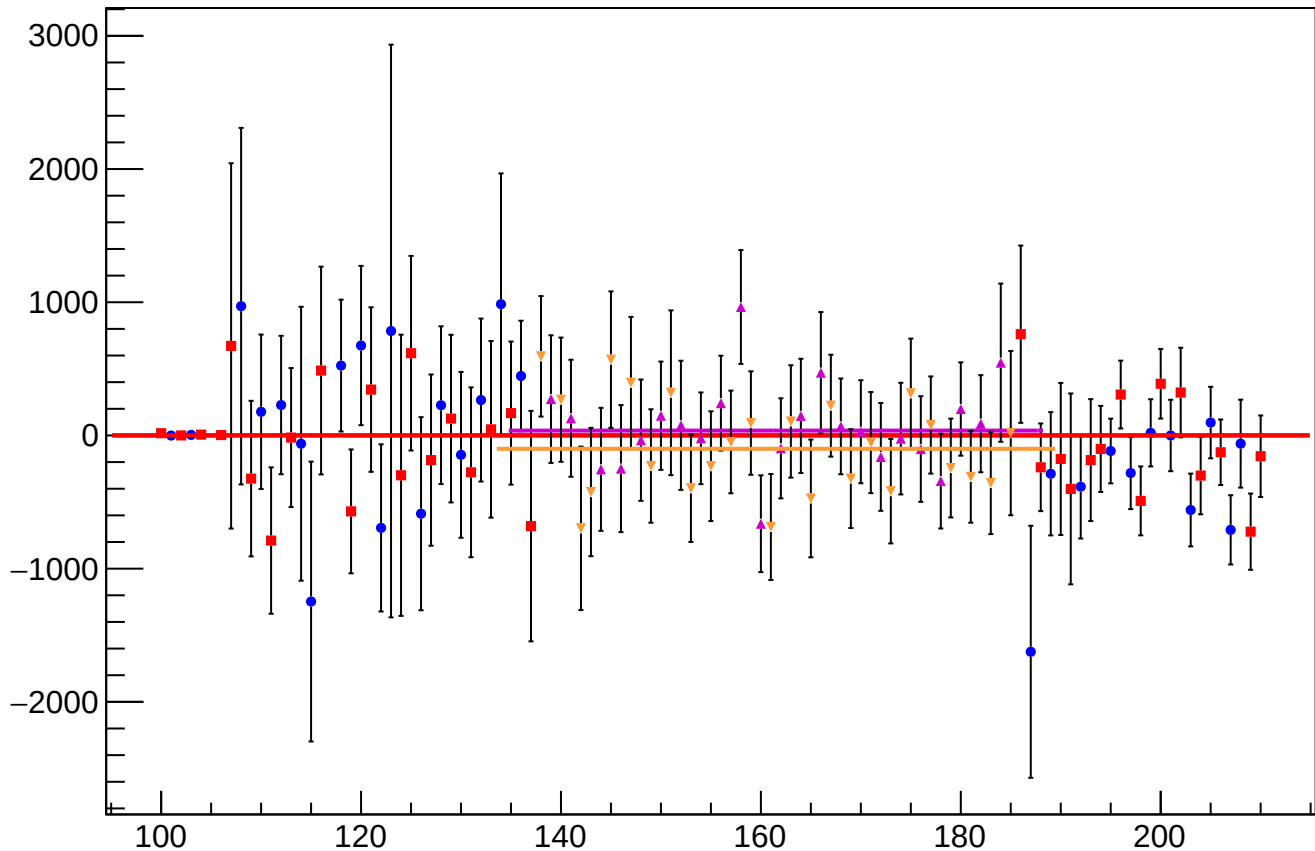
Right: 180.432+/-0.025 χ^2/NDF : 9937815.0/60

In: 187.448+/-0.025 χ^2/NDF :5759367.9/50

Out: 192.687+/-0.025 χ^2/NDF :7619945.5/57

All: 190.089+/-0.018 χ^2/NDF : 13401449.4/100

asym_cav4dQ_mean vs Slug, Sign Corrected



Right In: -0.225 $\pm$ 1.736 χ^2/NDF : 27.5/27

Left Out: -100.058 $\pm$ 84.190 χ^2/NDF :15.7/24

Right Out: 1.286 $\pm$ 1.622 χ^2/NDF : 28.1/32

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

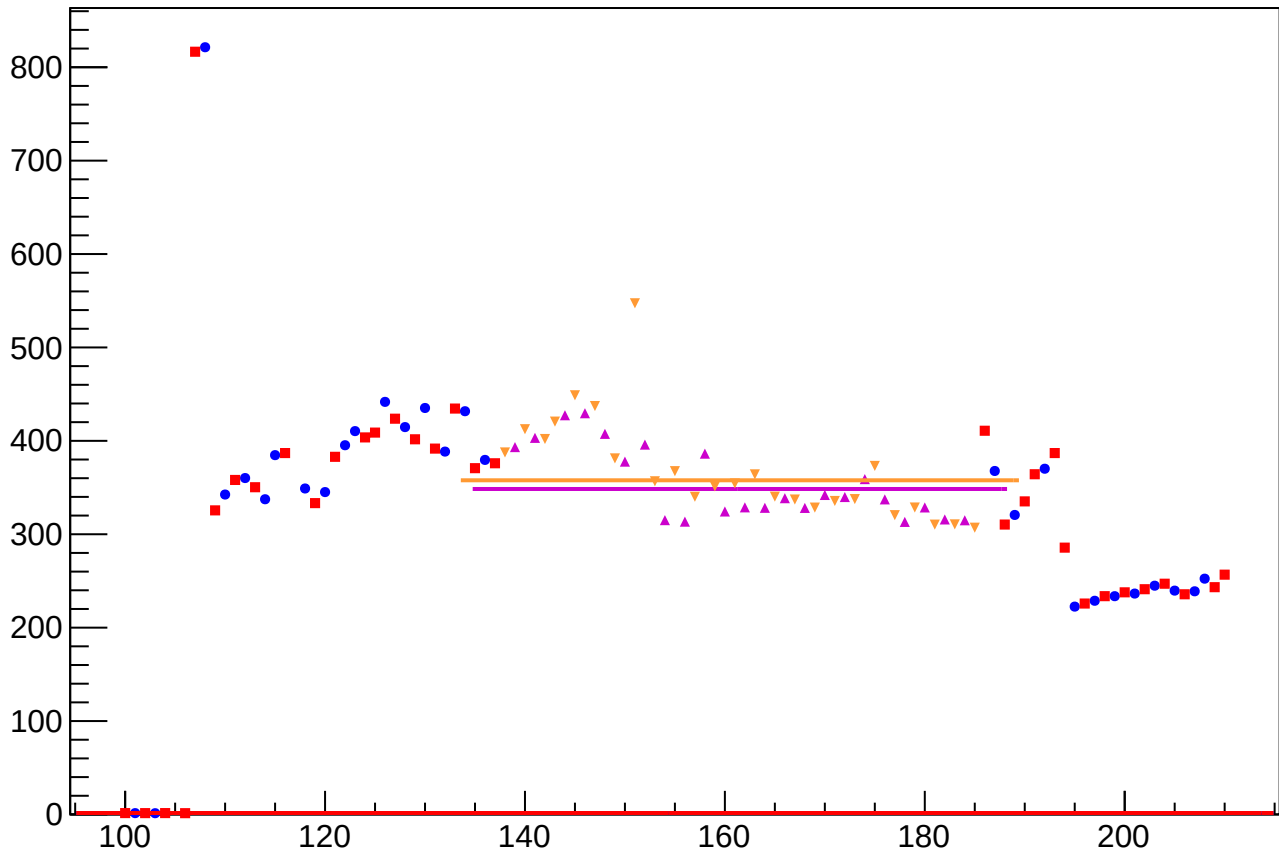
Right: 0.581 $\pm$ 1.185 χ^2/NDF : 55.9/60

In: -0.210 $\pm$ 1.736 χ^2/NDF :41.2/50

Out: 1.248 $\pm$ 1.622 χ^2/NDF :45.2/57

All: 0.568 $\pm$ 1.185 χ^2/NDF : 86.8/108

asym_cav4dQ_rms vs Slug, Sign Corrected



Right In: 1.545 $\pm$ 0.001 χ^2 /NDF: 26246408.7/27

Left Out: 357.771 $\pm$ 0.060 χ^2 /NDF: 547124.8/24

Right Out: 1.543 $\pm$ 0.001 χ^2 /NDF: 29399786.0/32

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

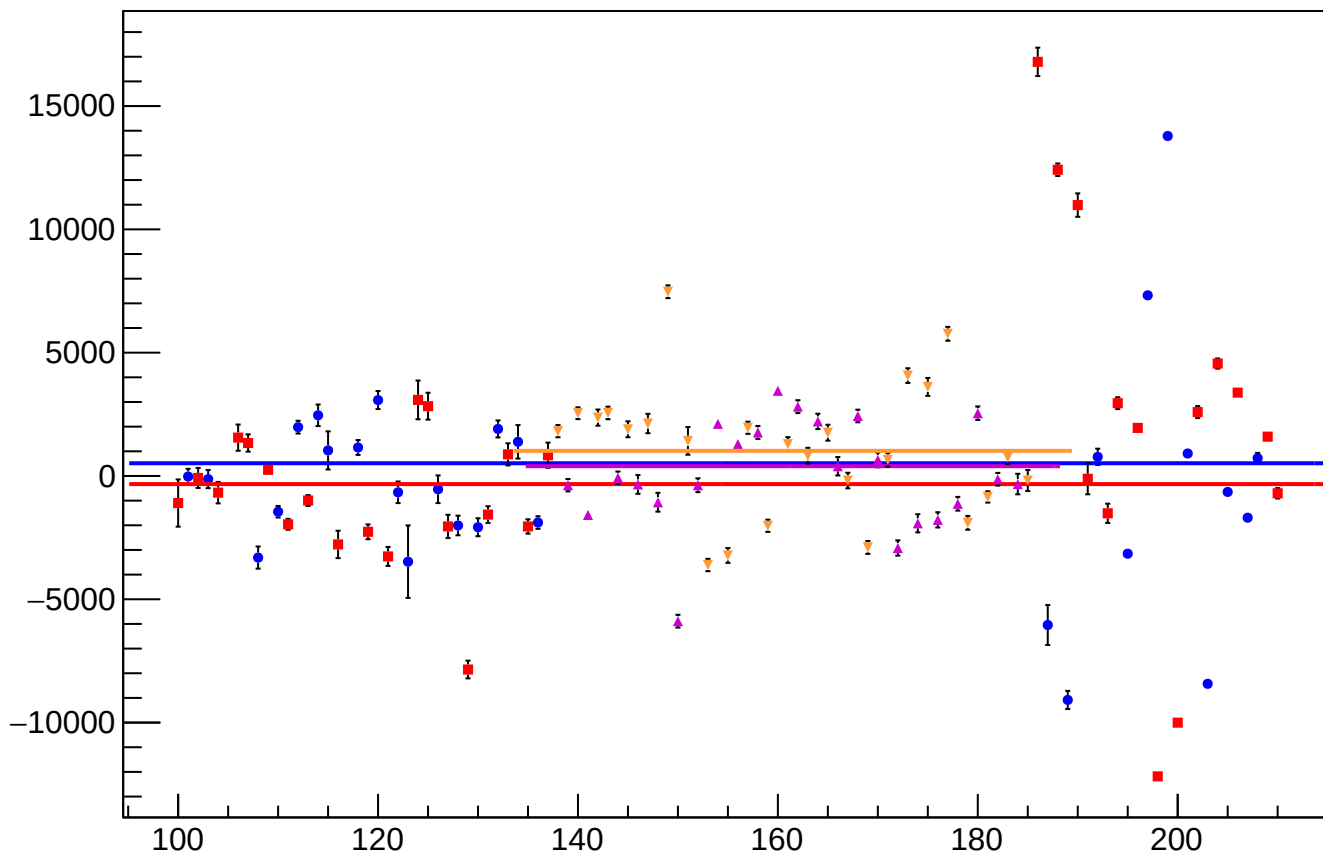
Right: 1.544 $\pm$ 0.001 χ^2 /NDF: 55646195.4/60

In: 1.690 $\pm$ 0.001 χ^2 /NDF: 60164487.5/50

Out: 1.675 $\pm$ 0.001 χ^2 /NDF: 65740582.6/57

All: 1.682 $\pm$ 0.001 χ^2 /NDF: 125905149.4/108

asym_bcm0l02_mean vs Slug, Sign Corrected



Right In: 515.644+/-51.727 χ^2/NDF : 10823.0/27

Left Out: 1018.965+/-57.402 χ^2/NDF : 2310.1/24

Right Out: -329.487+/-48.329 χ^2/NDF : 13329.9/32

Left In: 396.609+/-55.090 χ^2/NDF : 1581.0/22

Left: 695.002+/-39.747 χ^2/NDF : 3952.3/47

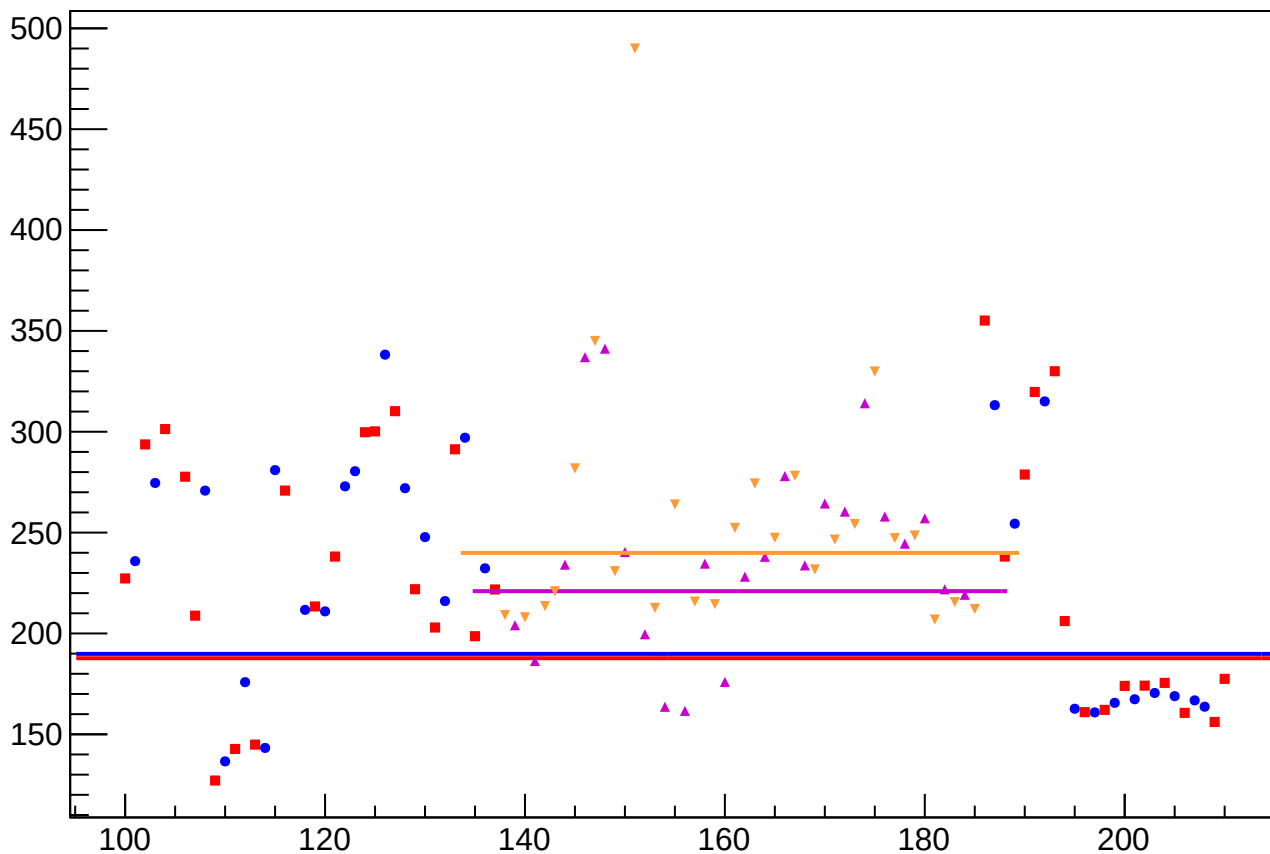
Right: 64.407+/-35.314 χ^2/NDF : 24295.4/60

In: 459.870+/-37.709 χ^2/NDF : 12406.4/50

Out: 229.867+/-36.970 χ^2/NDF : 15962.9/57

All: 342.592+/-26.399 χ^2/NDF : 28388.4/108

asym_bcm0l02_rms vs Slug, Sign Corrected



Right In: 189.871 ± 0.037 χ^2/NDF : 1522306.8/27

Left Out: 239.942 ± 0.041 χ^2/NDF : 1000770.0/24

Right Out: 187.727 ± 0.034 χ^2/NDF : 2121238.1/32

Left In: 220.972 ± 0.039 χ^2/NDF : 1327680.6/22

Left: 230.067 ± 0.028 χ^2/NDF : 2442154.9/47

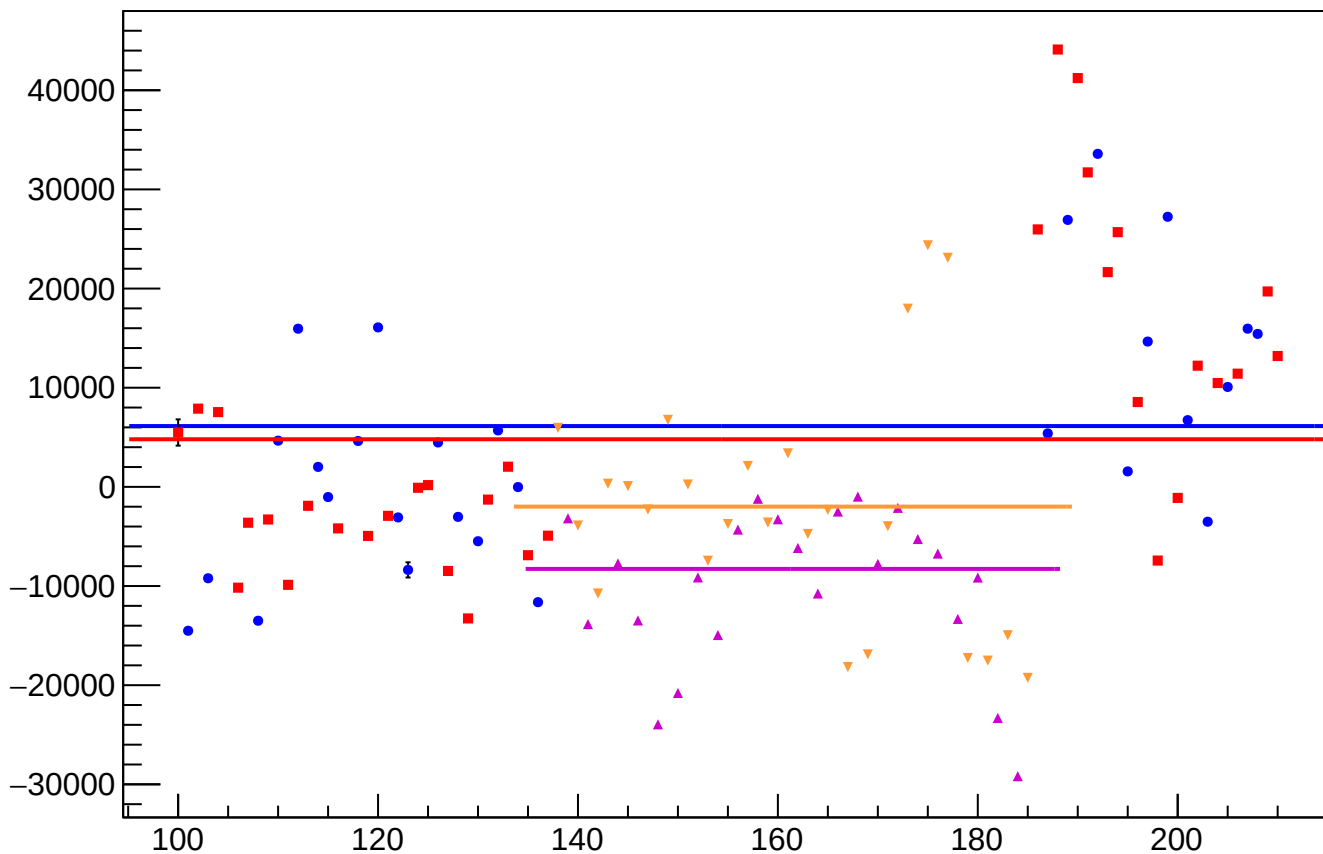
Right: 188.726 ± 0.025 χ^2/NDF : 3645379.2/60

In: 204.443 ± 0.027 χ^2/NDF : 3188744.8/50

Out: 209.386 ± 0.026 χ^2/NDF : 4090417.9/57

All: 206.964 ± 0.019 χ^2/NDF : 7296687.3/108

asym_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 6131.702 $\pm$ 42.020 χ^2 /NDF: 90632.2/27

Left Out: -1991.788 $\pm$ 42.427 χ^2 /NDF: 63766.6/24

Right Out: 4800.731 $\pm$ 39.257 χ^2 /NDF: 140649.7/32

Left In: -8273.228 $\pm$ 44.301 χ^2 /NDF: 22870.2/22

Left: -4996.810 $\pm$ 30.641 χ^2 /NDF: 97123.2/47

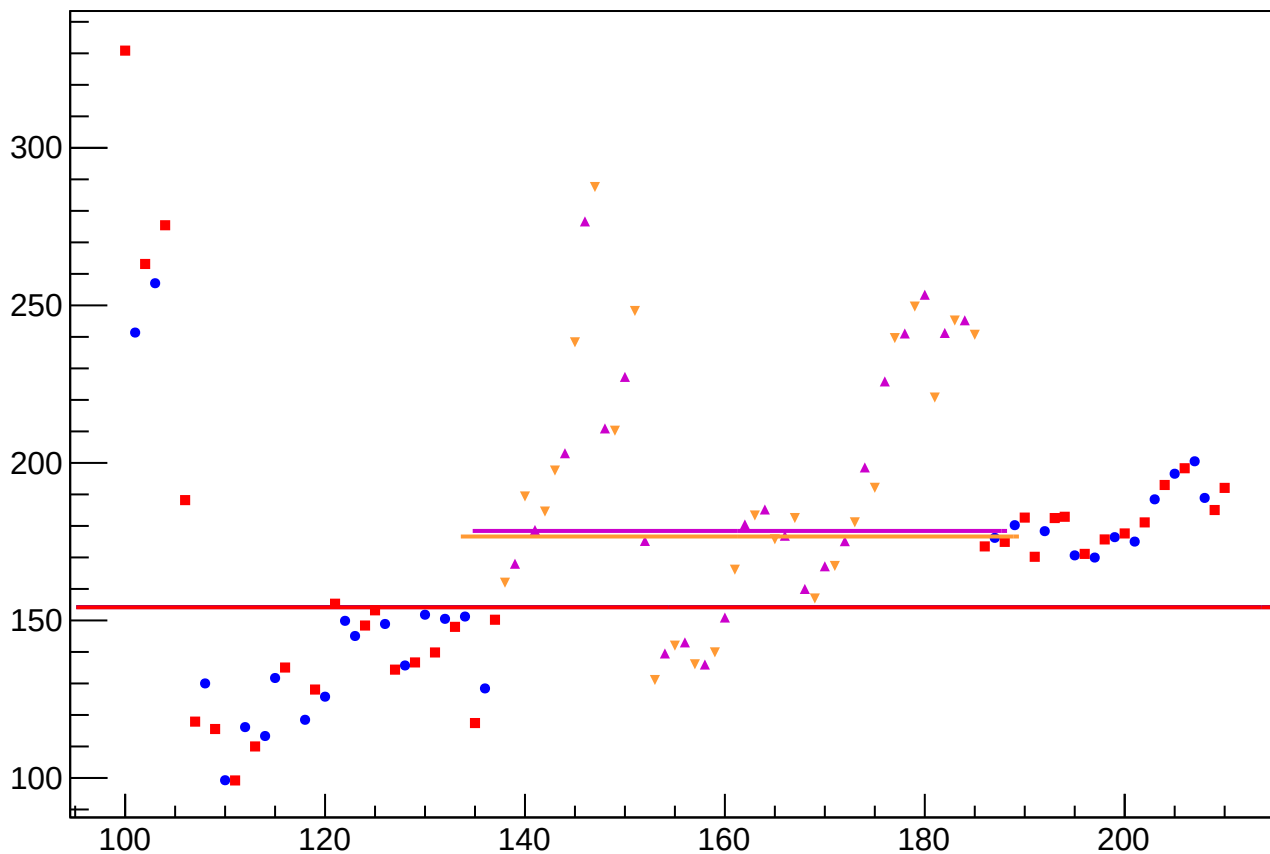
Right: 5421.019 $\pm$ 28.686 χ^2 /NDF: 231817.6/60

In: -690.312 $\pm$ 30.487 χ^2 /NDF: 169159.0/50

Out: 1667.696 $\pm$ 28.814 χ^2 /NDF: 218225.6/57

All: 555.158 $\pm$ 20.941 χ^2 /NDF: 390544.2/108

asym_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 154.232 $\pm$ 0.030 χ^2 /NDF: 1290550.5/27

Left Out: 176.641 $\pm$ 0.030 χ^2 /NDF: 1551048.8/24

Right Out: 154.176 $\pm$ 0.028 χ^2 /NDF: 1631280.8/32

Left In: 178.413 $\pm$ 0.031 χ^2 /NDF: 1293736.2/22

Left: 177.489 $\pm$ 0.022 χ^2 /NDF: 2846455.0/47

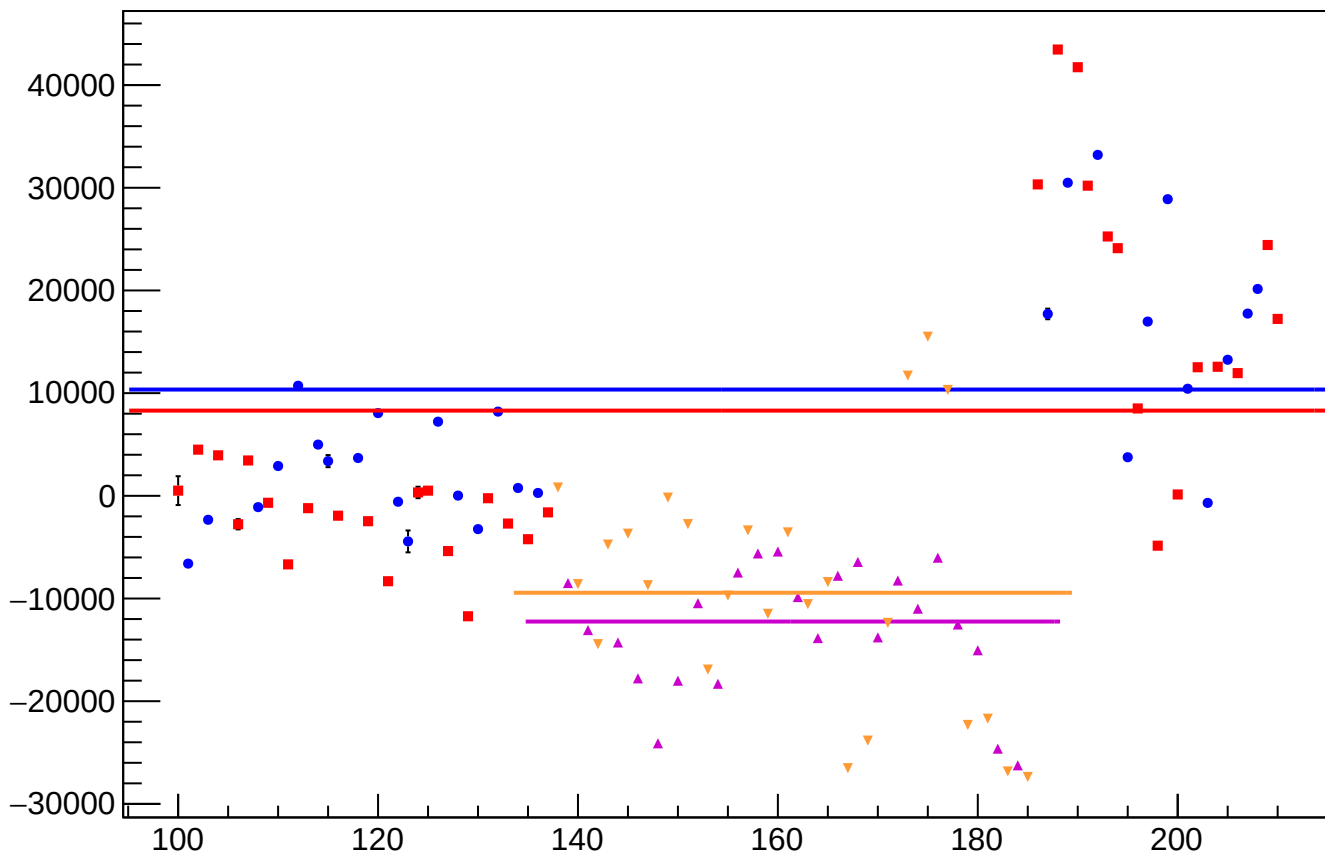
Right: 154.202 $\pm$ 0.020 χ^2 /NDF: 2921833.2/60

In: 165.684 $\pm$ 0.022 χ^2 /NDF: 2897967.2/50

Out: 164.538 $\pm$ 0.020 χ^2 /NDF: 3484435.0/57

All: 165.078 $\pm$ 0.015 χ^2 /NDF: 6383895.8/108

asym_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 10349.784 $\pm$ 47.160

χ^2/NDF : 52244.8/27

Left: -10889.638 $\pm$ 31.621

χ^2/NDF : 80800.7/47

Left Out: -9437.408 $\pm$ 45.534

χ^2/NDF : 62220.4/24

Right: 9245.925 $\pm$ 32.044

χ^2/NDF : 165616.9/60

Right Out: 8299.174 $\pm$ 43.675

χ^2/NDF : 112354.3/32

In: -1742.540 $\pm$ 32.150

χ^2/NDF : 191696.0/50

Out: -199.576 $\pm$ 31.520

χ^2/NDF : 253599.3/57

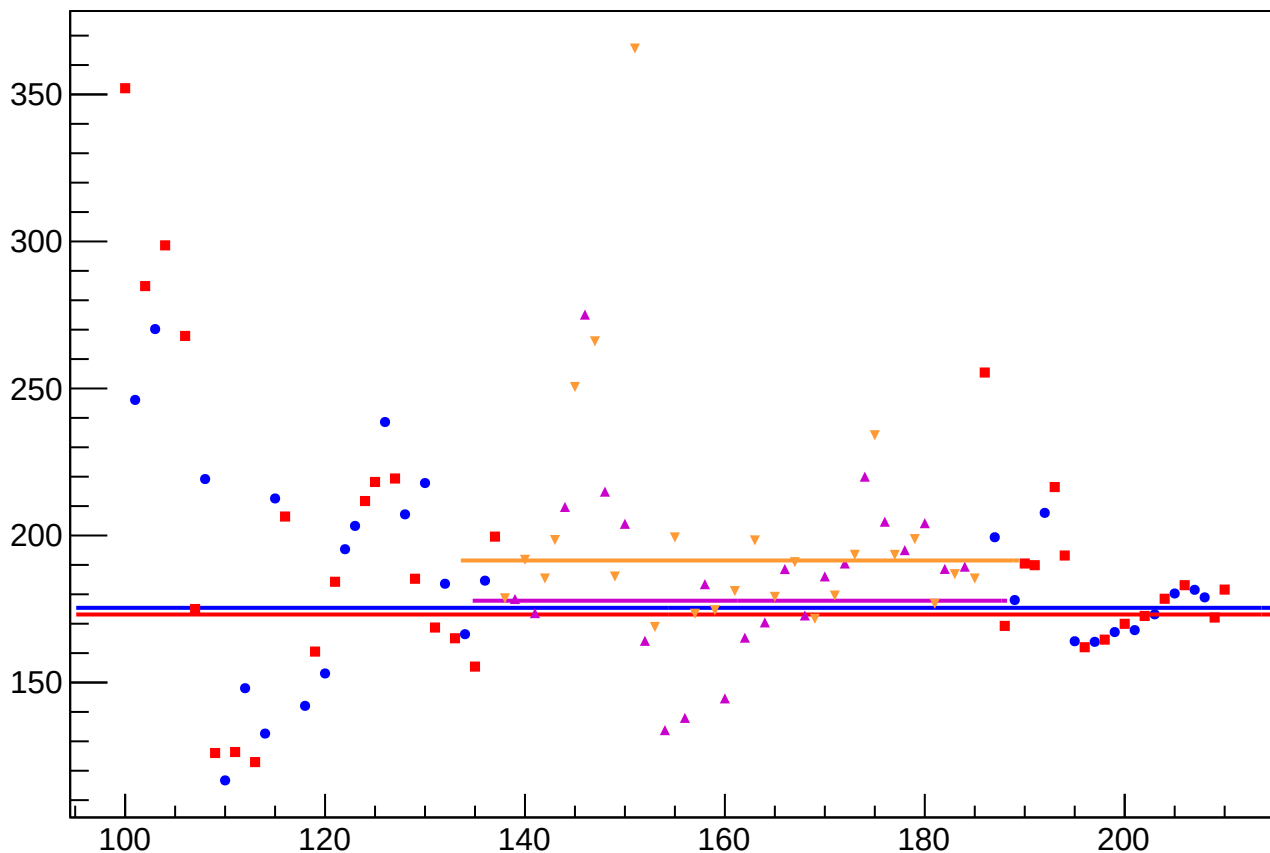
Left In: -12242.226 $\pm$ 43.944

χ^2/NDF : 16615.8/22

All: -955.783 $\pm$ 22.507

χ^2/NDF : 446469.7/10

asym_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 175.401 ± 0.033 $\chi^2/\text{NDF}: 762306.7/27$

Left Out: 191.507 ± 0.032 $\chi^2/\text{NDF}: 727251.6/24$

Right Out: 173.132 ± 0.031 $\chi^2/\text{NDF}: 1134860.5/32$

Left In: 177.821 ± 0.031 $\chi^2/\text{NDF}: 862494.4/22$

Left: 184.421 ± 0.022 $\chi^2/\text{NDF}: 1683284.8/47$

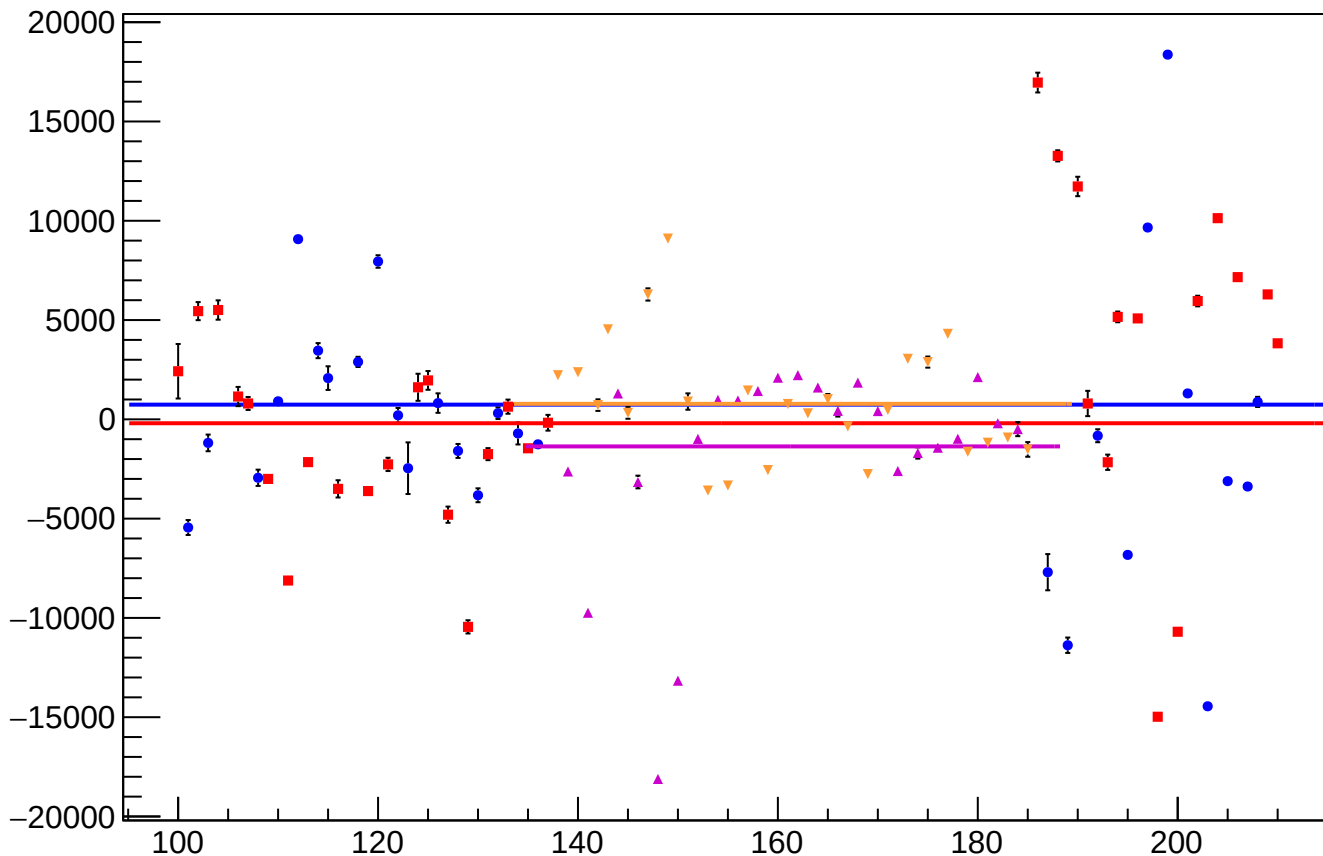
Right: 174.179 ± 0.023 $\chi^2/\text{NDF}: 1899659.7/60$

In: 176.697 ± 0.023 $\chi^2/\text{NDF}: 1627621.1/50$

Out: 181.936 ± 0.022 $\chi^2/\text{NDF}: 2031742.8/57$

All: 179.368 ± 0.016 $\chi^2/\text{NDF}: 3686453.5/108$

asym_bpm0i05WS_mean vs Slug, Sign Corrected



Right In: 740.666 ± 52.968 $\chi^2/\text{NDF}: 20338.2/27$

Left Out: 779.983 ± 47.457 $\chi^2/\text{NDF}: 4260.8/24$

Right Out: -196.651 ± 49.179 $\chi^2/\text{NDF}: 21662.5/32$

Left In: -1363.043 ± 45.807 $\chi^2/\text{NDF}: 11632.9/22$

Left: -329.448 ± 32.958 $\chi^2/\text{NDF}: 16949.3/47$

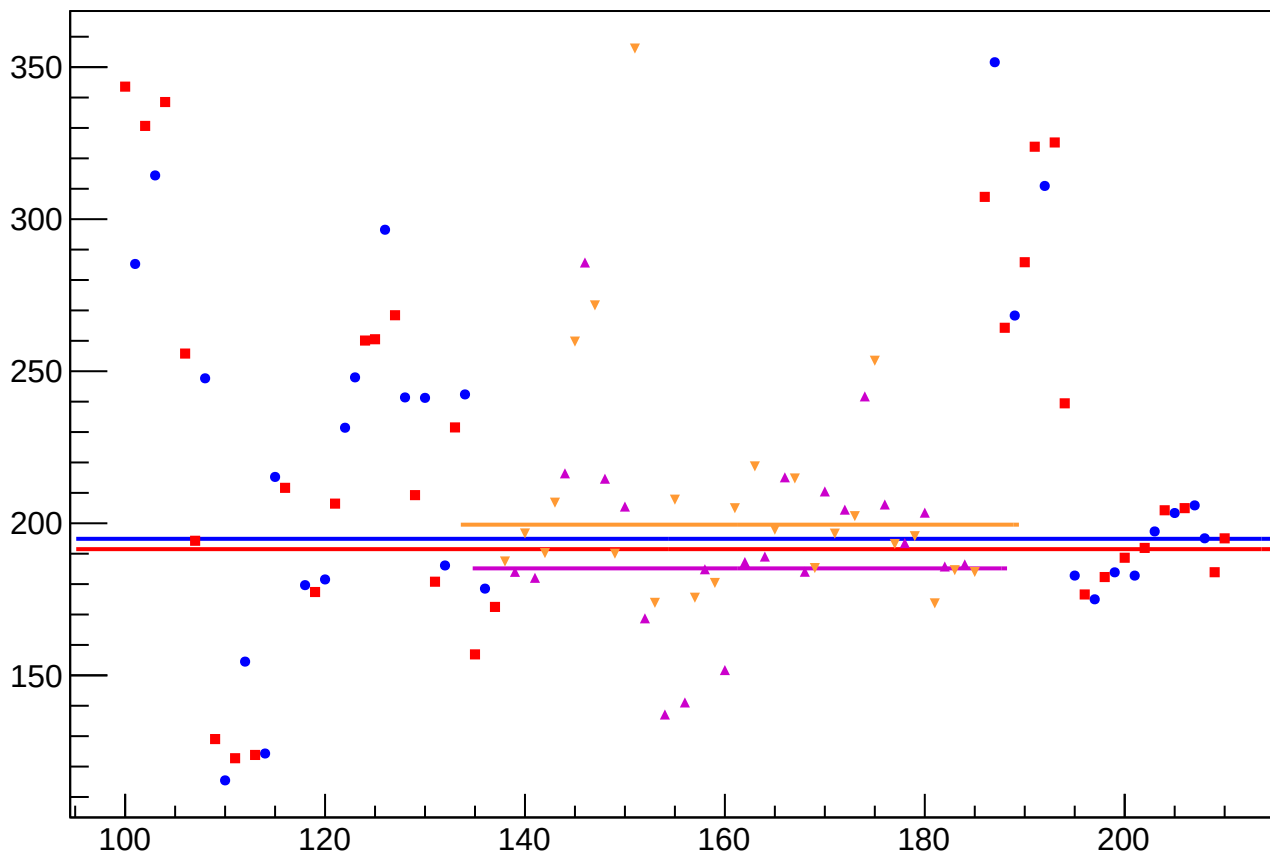
Right: 237.288 ± 36.040 $\chi^2/\text{NDF}: 42168.9/60$

In: -462.910 ± 34.648 $\chi^2/\text{NDF}: 32873.5/50$

Out: 309.059 ± 34.150 $\chi^2/\text{NDF}: 26127.5/57$

All: -71.341 ± 24.322 $\chi^2/\text{NDF}: 59252.8/108$

asym_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 194.893 ± 0.037

χ^2/NDF : 1415382.7/27

Left Out: 199.547 ± 0.034

χ^2/NDF : 729356.3/24

Right Out: 191.495 ± 0.035

χ^2/NDF : 2145201.1/32

Left In: 185.171 ± 0.032

χ^2/NDF : 882752.2/22

Left: 192.104 ± 0.023

χ^2/NDF : 1707122.0/47

Right: 193.068 ± 0.025

χ^2/NDF : 3565002.9/60

In: 189.330 ± 0.024

χ^2/NDF : 2336684.5/50

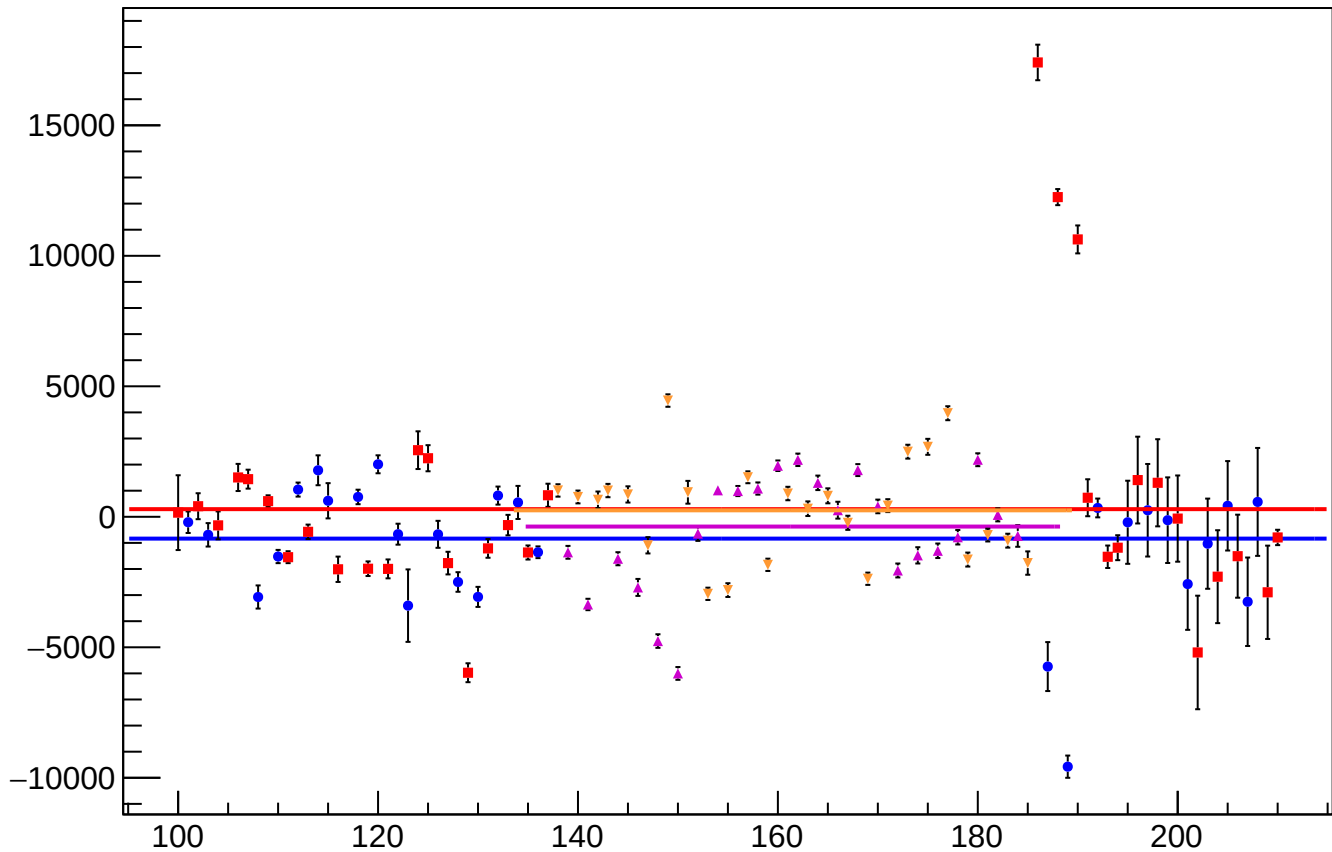
Out: 195.664 ± 0.024

χ^2/NDF : 2902316.3/57

All: 192.543 ± 0.017

χ^2/NDF : 5272903.9/108

asym_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -835.946 ± 83.372 $\chi^2/\text{NDF}: 764.2/27$

Left Out: 247.844 ± 53.555 $\chi^2/\text{NDF}: 1355.1/24$

Right Out: 293.017 ± 72.609 $\chi^2/\text{NDF}: 3190.5/32$

Left In: -374.122 ± 52.049 $\chi^2/\text{NDF}: 1801.0/22$

Left: -72.006 ± 37.325 $\chi^2/\text{NDF}: 3225.5/47$

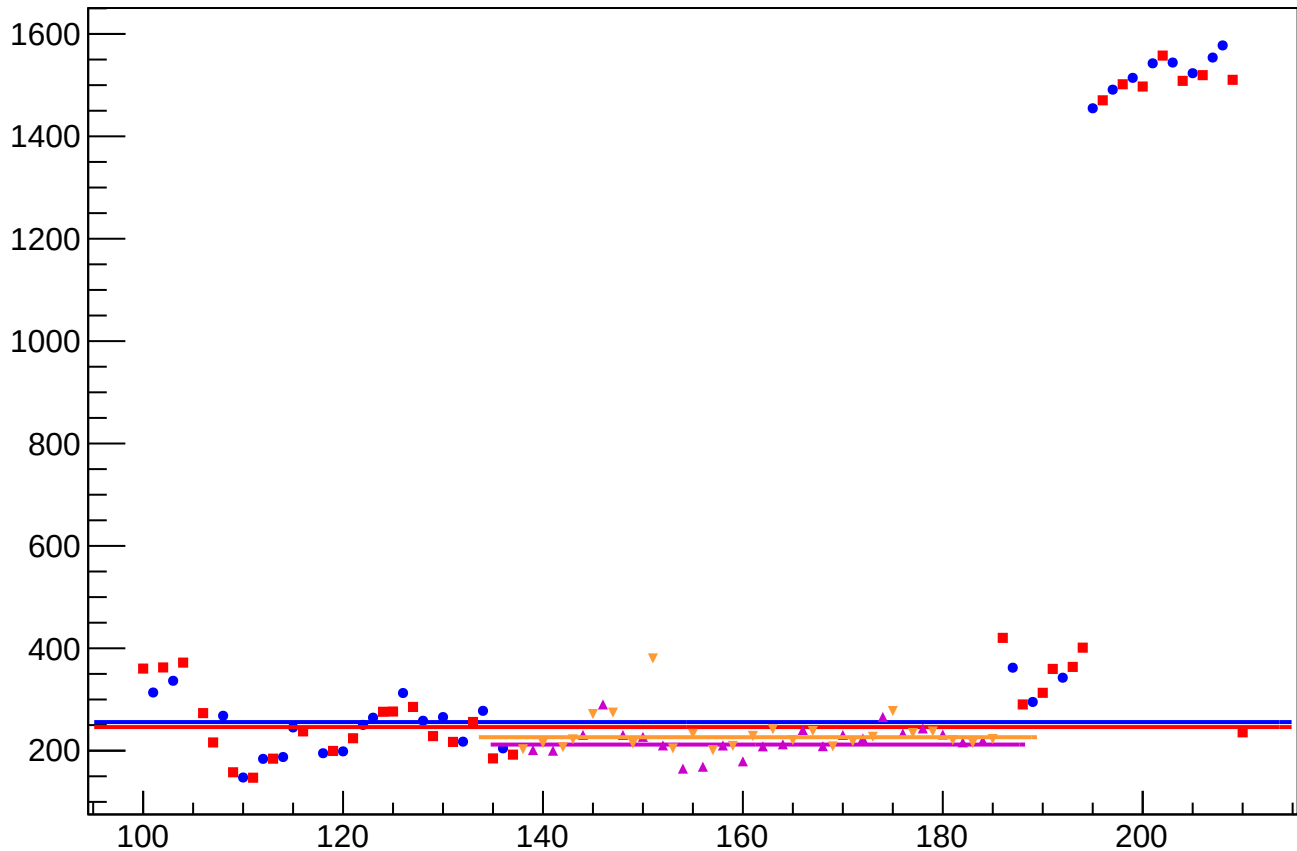
Right: -193.928 ± 54.755 $\chi^2/\text{NDF}: 4059.0/60$

In: -503.638 ± 44.151 $\chi^2/\text{NDF}: 2587.3/50$

Out: 263.760 ± 43.099 $\chi^2/\text{NDF}: 4545.9/57$

All: -110.687 ± 30.841 $\chi^2/\text{NDF}: 7287.9/108$

asym_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 255.878 ± 0.059 χ^2/NDF : 9660935.2/27

Left Out: 226.322 ± 0.038 χ^2/NDF : 521041.8/24

Right Out: 246.105 ± 0.051 χ^2/NDF : 9273046.4/32

Left In: 211.970 ± 0.037 χ^2/NDF : 584344.5/22

Left: 218.941 ± 0.026 χ^2/NDF : 1179246.7/47

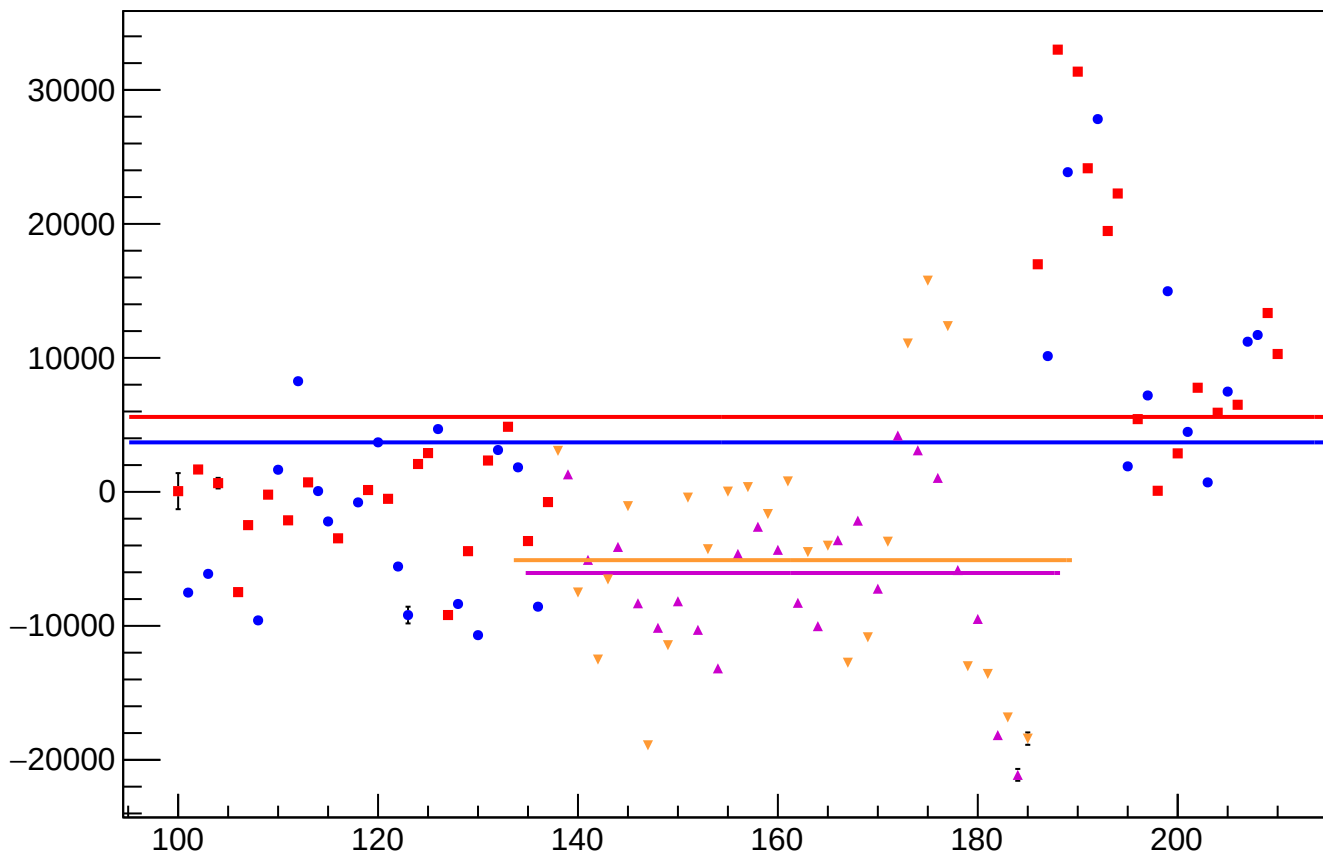
Right: 250.320 ± 0.039 χ^2/NDF : 18949610.1/60

In: 224.284 ± 0.031 χ^2/NDF : 10644432.1/50

Out: 233.292 ± 0.030 χ^2/NDF : 9890248.6/57

All: 228.897 ± 0.022 χ^2/NDF : 20577314.1/10

asym_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: 3694.951+/-35.717

χ^2/NDF : 77238.0/27

Left Out: -5095.305+/-33.703

χ^2/NDF : 54395.4/24

Right Out: 5593.956+/-33.125

χ^2/NDF : 103461.7/32

Left In: -6053.569+/-34.998

χ^2/NDF : 17590.3/22

Left: -5556.386+/-24.277

χ^2/NDF : 72374.6/47

Right: 4715.857+/-24.288

χ^2/NDF : 182219.4/60

In: -1278.447+/-24.998

χ^2/NDF : 132832.8/50

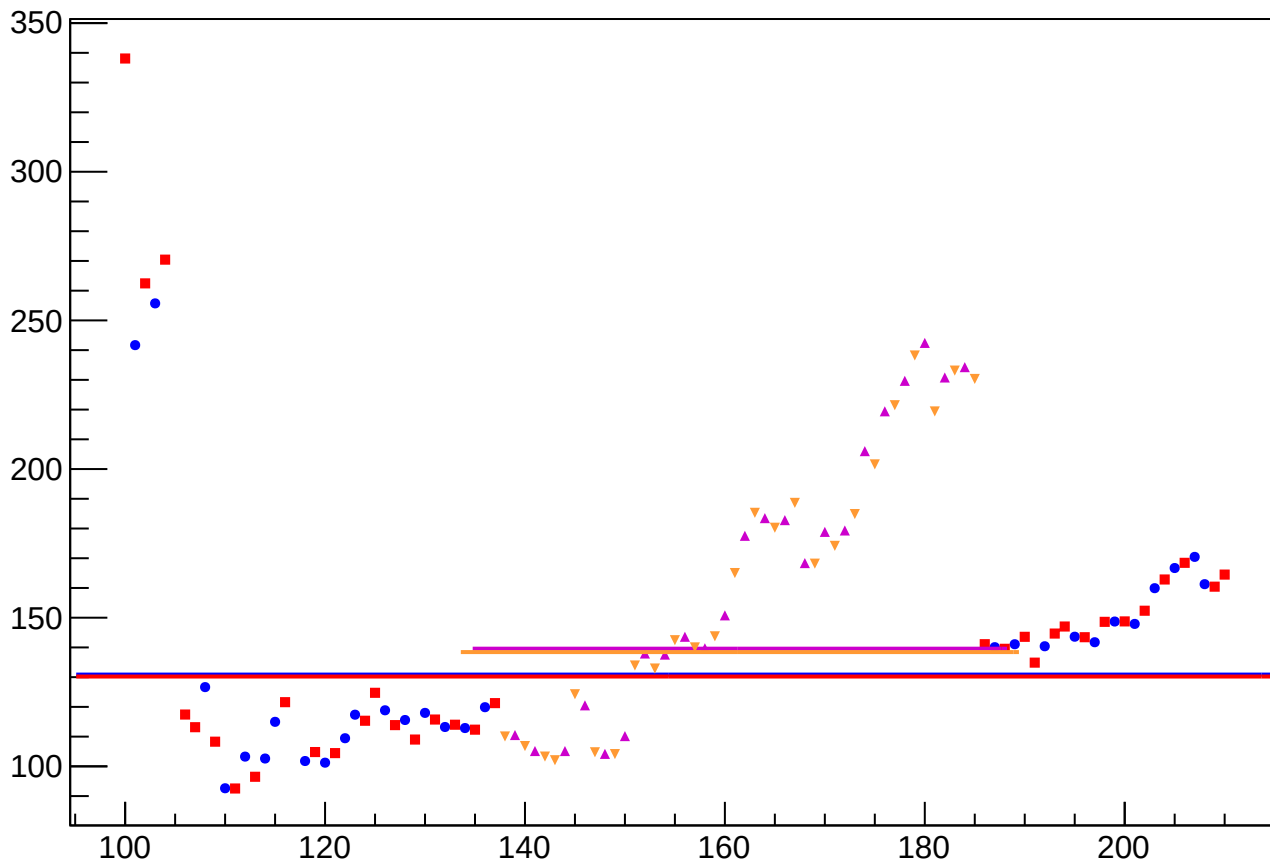
Out: 341.831+/-23.625

χ^2/NDF : 209021.7/57

All: -422.593+/-17.170

χ^2/NDF : 344073.6/10

asym_bpm1i02WS_rms vs Slug, Sign Corrected



Right In: 130.866+/-0.025 χ^2/NDF : 1286966.5/27

Left Out: 138.436+/-0.024 χ^2/NDF : 2549435.8/24

Right Out: 130.210+/-0.023 χ^2/NDF : 1480201.6/32

Left In: 139.578+/-0.025 χ^2/NDF : 2413658.9/22

Left: 138.985+/-0.017 χ^2/NDF : 4964199.7/47

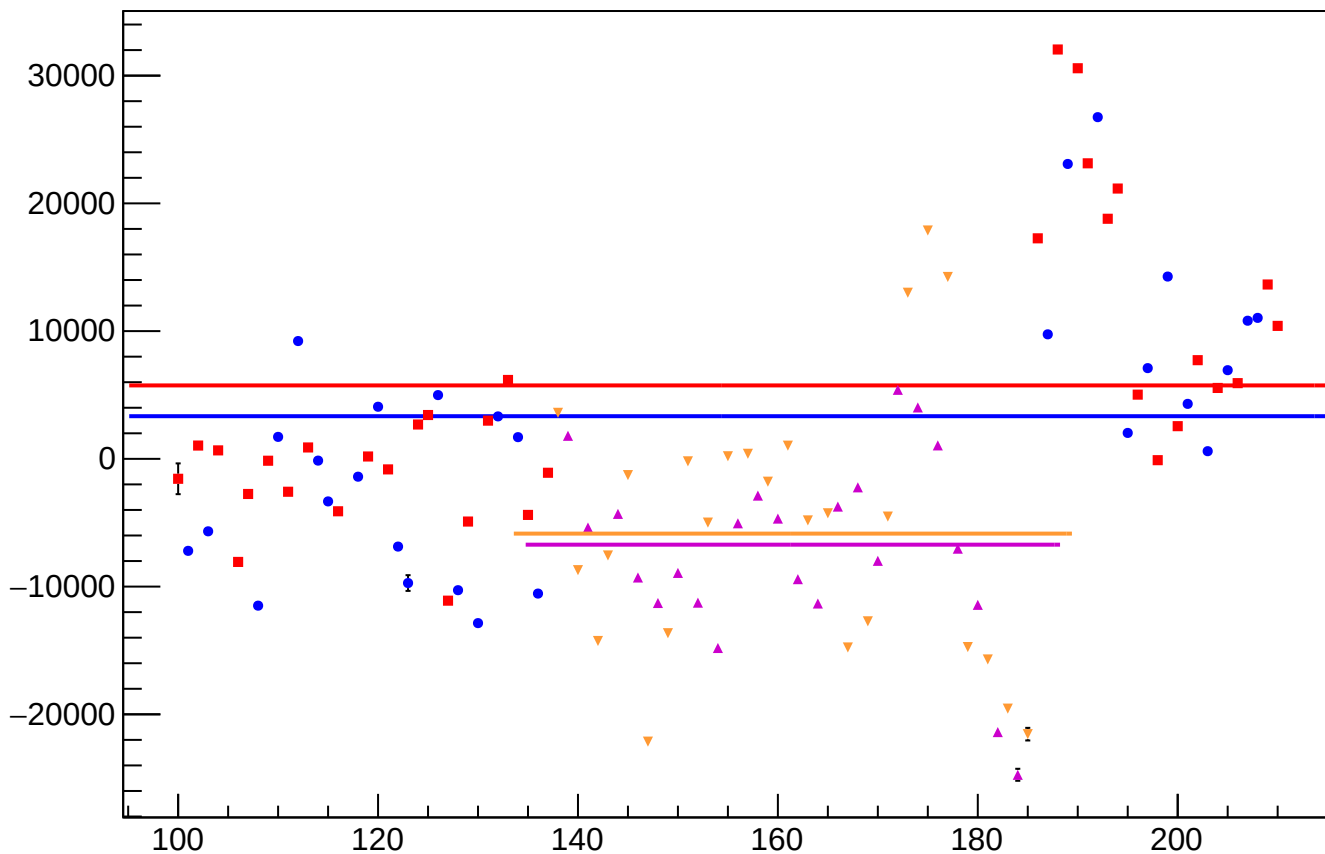
Right: 130.513+/-0.017 χ^2/NDF : 2767530.3/60

In: 135.310+/-0.018 χ^2/NDF : 3761330.8/50

Out: 134.252+/-0.017 χ^2/NDF : 4090231.6/57

All: 134.751+/-0.012 χ^2/NDF : 7853457.0/108

asym_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: 3338.979 $\pm$ 35.795

χ^2/NDF : 82360.4/27

Left: -6268.993 $\pm$ -25.850

χ^2/NDF : 84625.8/47

Left Out: -5852.544 $\pm$ -35.880

χ^2/NDF :63411.4/24

Right: 4630.974 $\pm$ -24.378

χ^2/NDF : 188930.8/60

Right Out: 5748.676 $\pm$ -33.293

χ^2/NDF : 104140.5/32

In: -1486.043 $\pm$ -25.818

χ^2/NDF :141168.9/50

Out: 381.271 $\pm$ -24.405

χ^2/NDF :223728.9/57

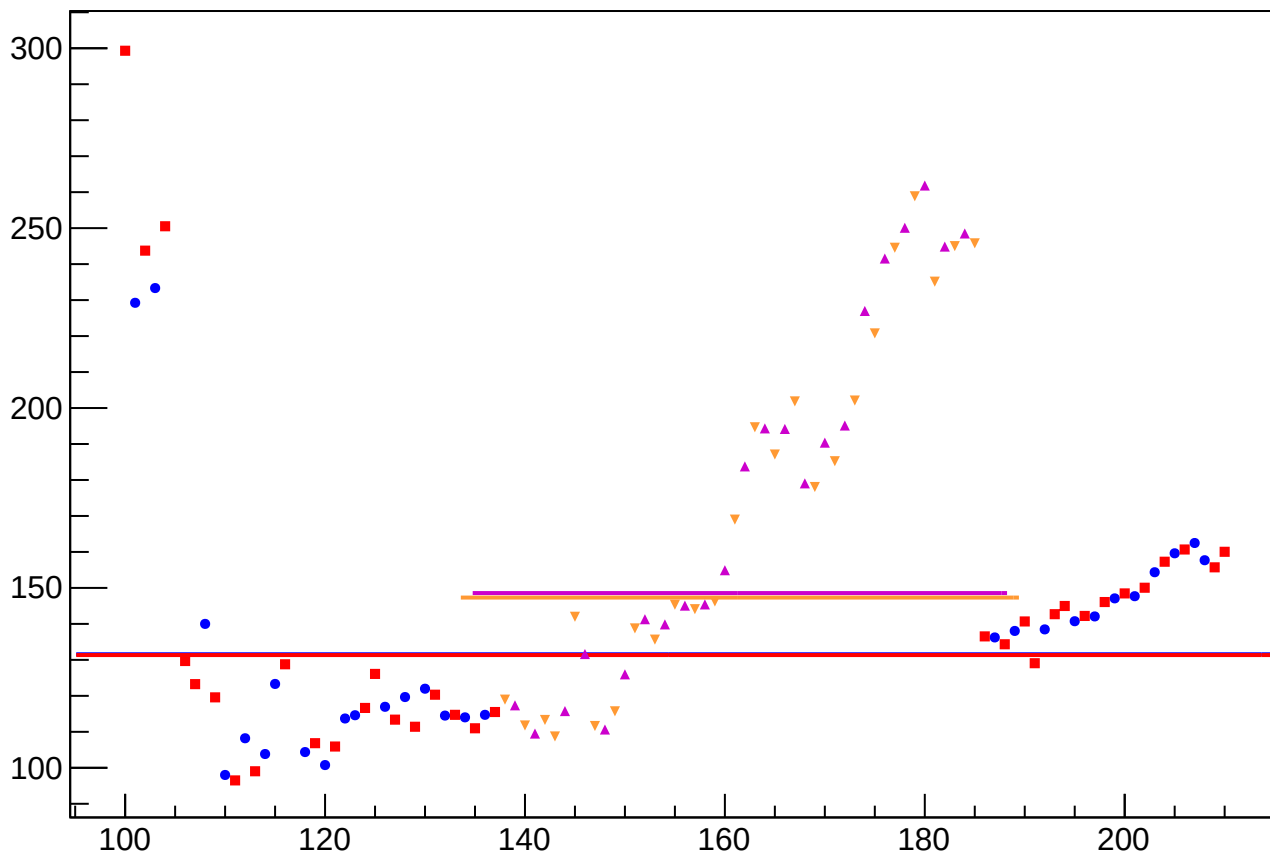
Left In: -6718.475 $\pm$ -37.276

χ^2/NDF :20934.3/22

All: -499.878 $\pm$ -17.736

χ^2/NDF : 367660.3/10

asym_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 131.557+/-0.025 χ^2/NDF : 1026117.6/27

Left Out: 147.317+/-0.025 χ^2/NDF : 2511679.9/24

Right Out: 131.338+/-0.024 χ^2/NDF : 1155933.7/32

Left In: 148.569+/-0.026 χ^2/NDF : 2393185.0/22

Left: 147.919+/-0.018 χ^2/NDF : 4906034.9/47

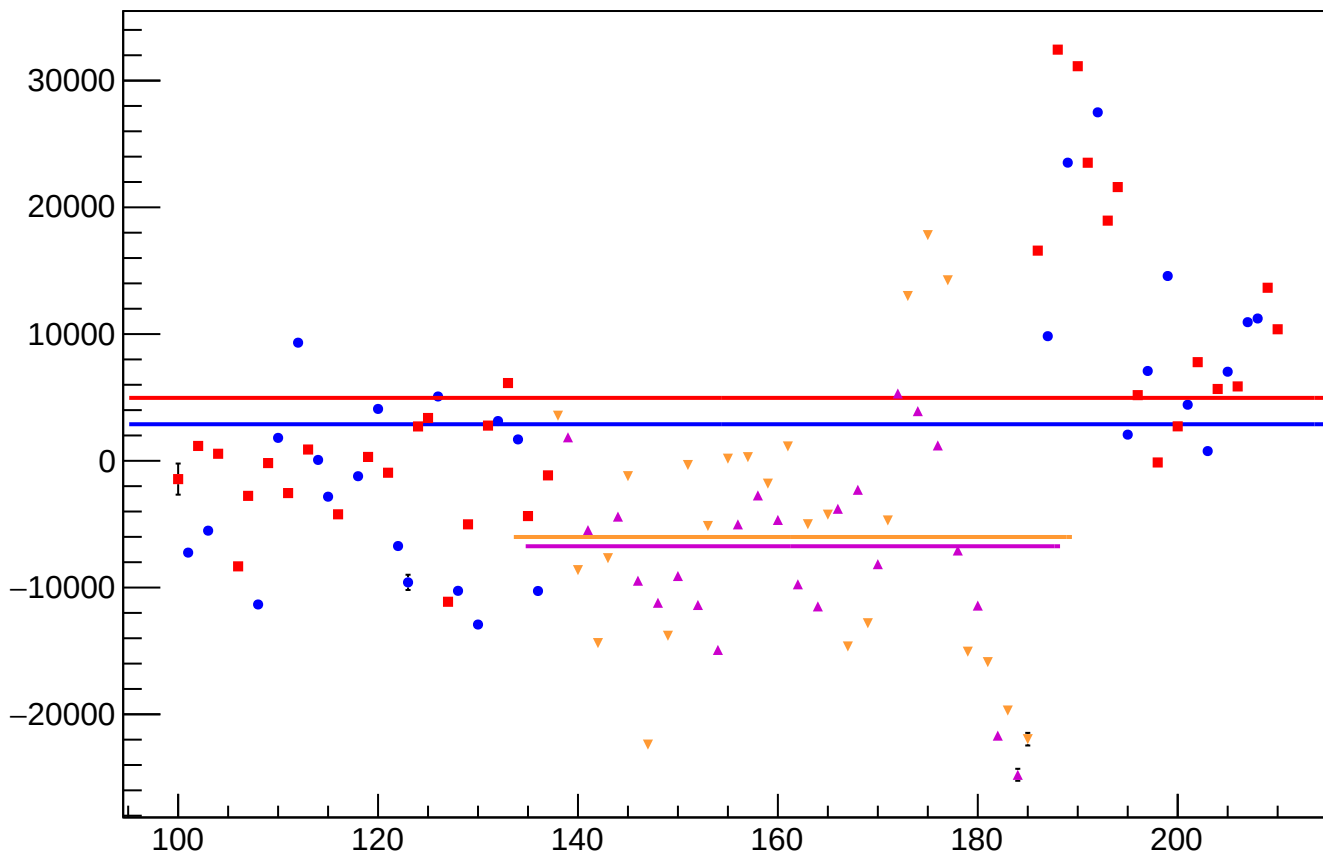
Right: 131.440+/-0.017 χ^2/NDF : 2182091.5/60

In: 139.718+/-0.018 χ^2/NDF : 3636003.2/50

Out: 138.731+/-0.017 χ^2/NDF : 3880763.0/57

All: 139.197+/-0.013 χ^2/NDF : 7518311.4/108

asym_bpm2i02WS_mean vs Slug, Sign Corrected



Right In: 2886.254 $\pm$ 35.554

χ^2/NDF : 81899.0/27

Left: -6362.031 $\pm$ 25.253

χ^2/NDF : 90133.1/47

Left Out: -6009.913 $\pm$ 35.082

χ^2/NDF : 67852.2/24

Right: 3996.949 $\pm$ 24.269

χ^2/NDF : 182882.1/60

Right Out: 4965.969 $\pm$ 33.210

χ^2/NDF : 99155.8/32

In: -1816.819 $\pm$ 25.427

χ^2/NDF : 139787.1/50

Out: -221.202 $\pm$ 24.118

χ^2/NDF : 218631.1/57

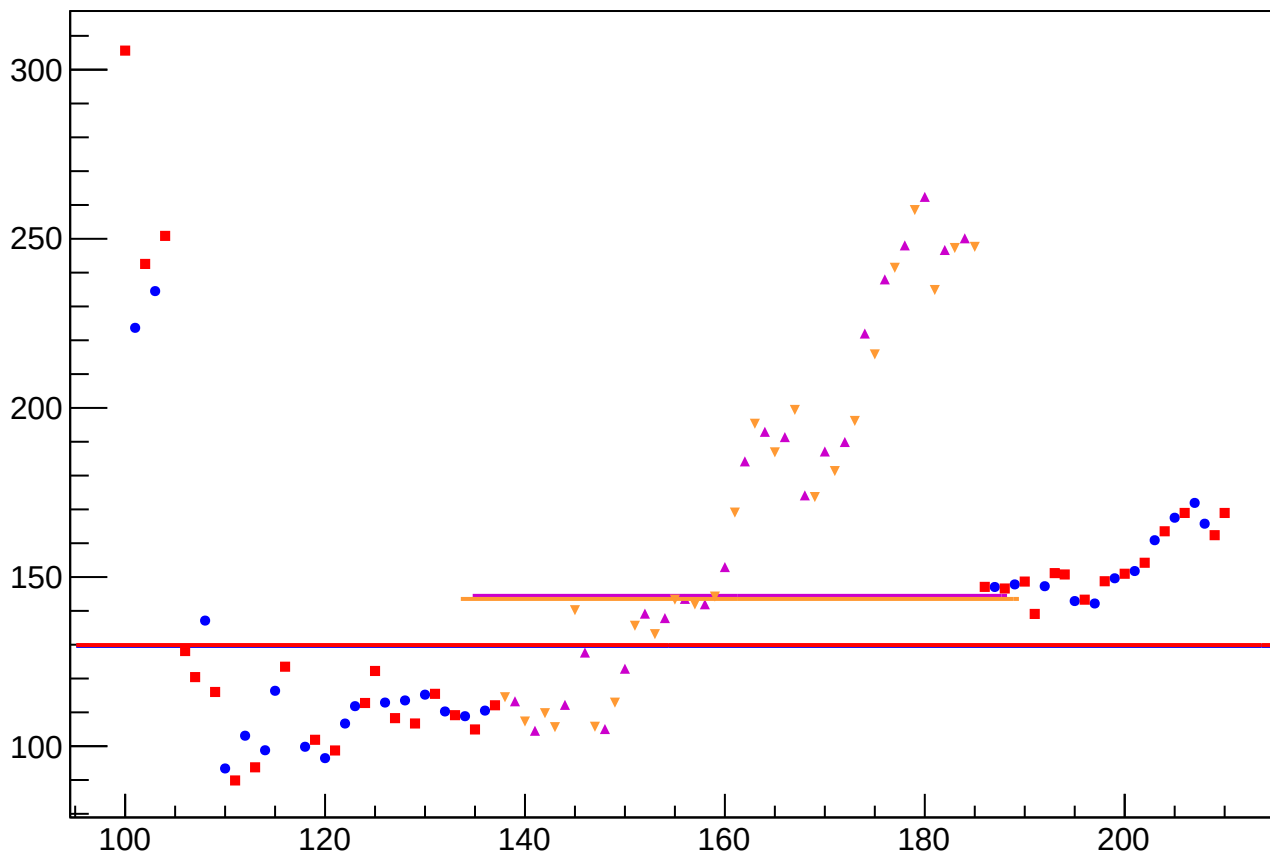
Left In: -6740.666 $\pm$ 36.379

χ^2/NDF : 22071.8/22

All: -976.856 $\pm$ 17.498

χ^2/NDF : 360491.2/10

asym_bpm2i02WS_rms vs Slug, Sign Corrected



Right In: 129.644+/-0.025 χ^2/NDF : 1371623.7/27

Left Out: 143.531+/-0.025 χ^2/NDF : 2704790.3/24

Right Out: 129.894+/-0.023 χ^2/NDF : 1605621.7/32

Left In: 144.440+/-0.026 χ^2/NDF : 2586926.1/22

Left: 143.969+/-0.018 χ^2/NDF : 5292363.3/47

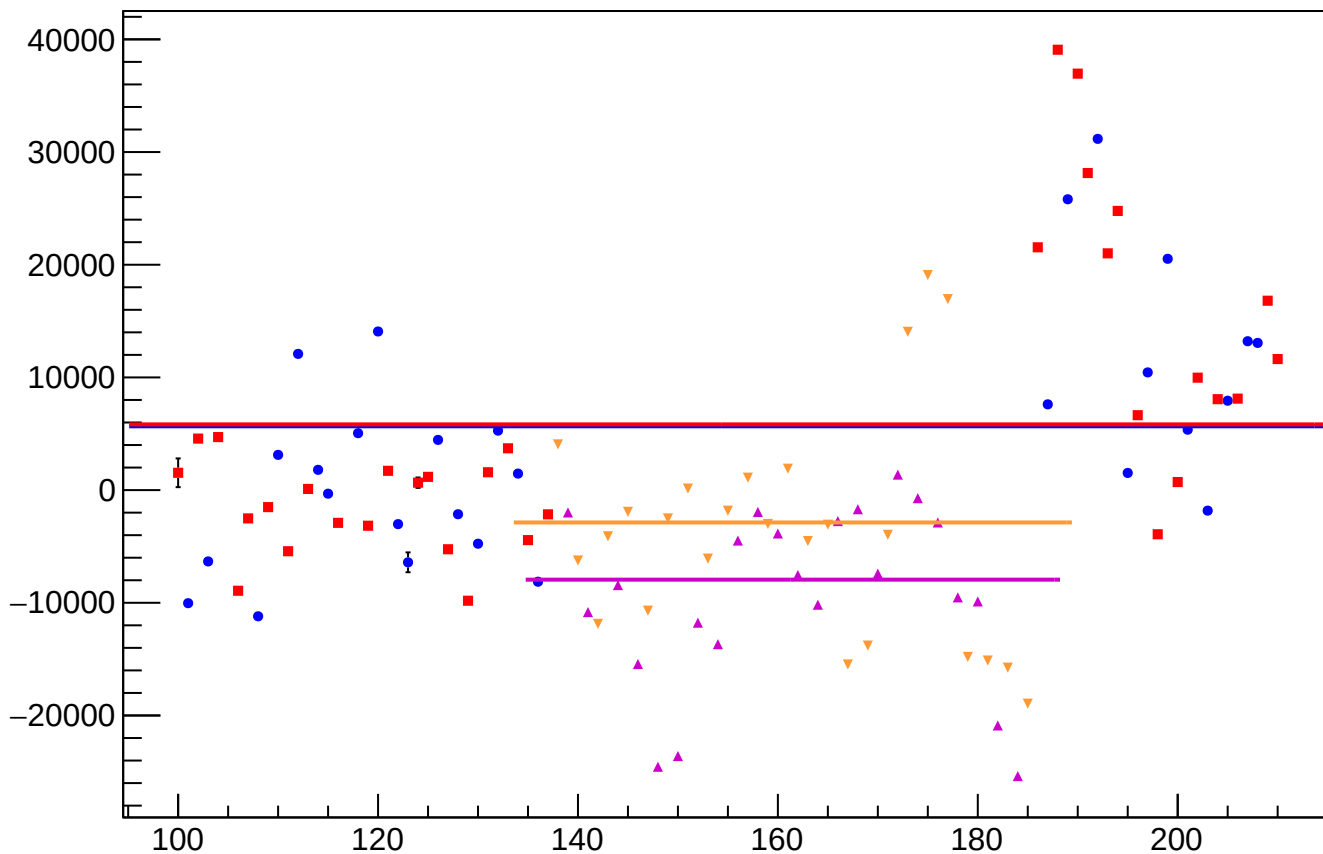
Right: 129.777+/-0.017 χ^2/NDF : 2977298.1/60

In: 136.872+/-0.018 χ^2/NDF : 4127754.8/50

Out: 136.338+/-0.017 χ^2/NDF : 4469792.0/57

All: 136.591+/-0.012 χ^2/NDF : 8598010.4/108

asym_bpm0i01WS_mean vs Slug, Sign Corrected



Right In: 5662.602+/-43.014 χ^2/NDF : 61937.5/27

Left Out: -2870.473+/-39.482 χ^2/NDF : 46420.3/24

Right Out: 5832.600+/-40.141 χ^2/NDF : 98630.1/32

Left In: -7947.160+/-41.726 χ^2/NDF : 23874.5/22

Left: -5268.670+/-28.678 χ^2/NDF : 78105.0/47

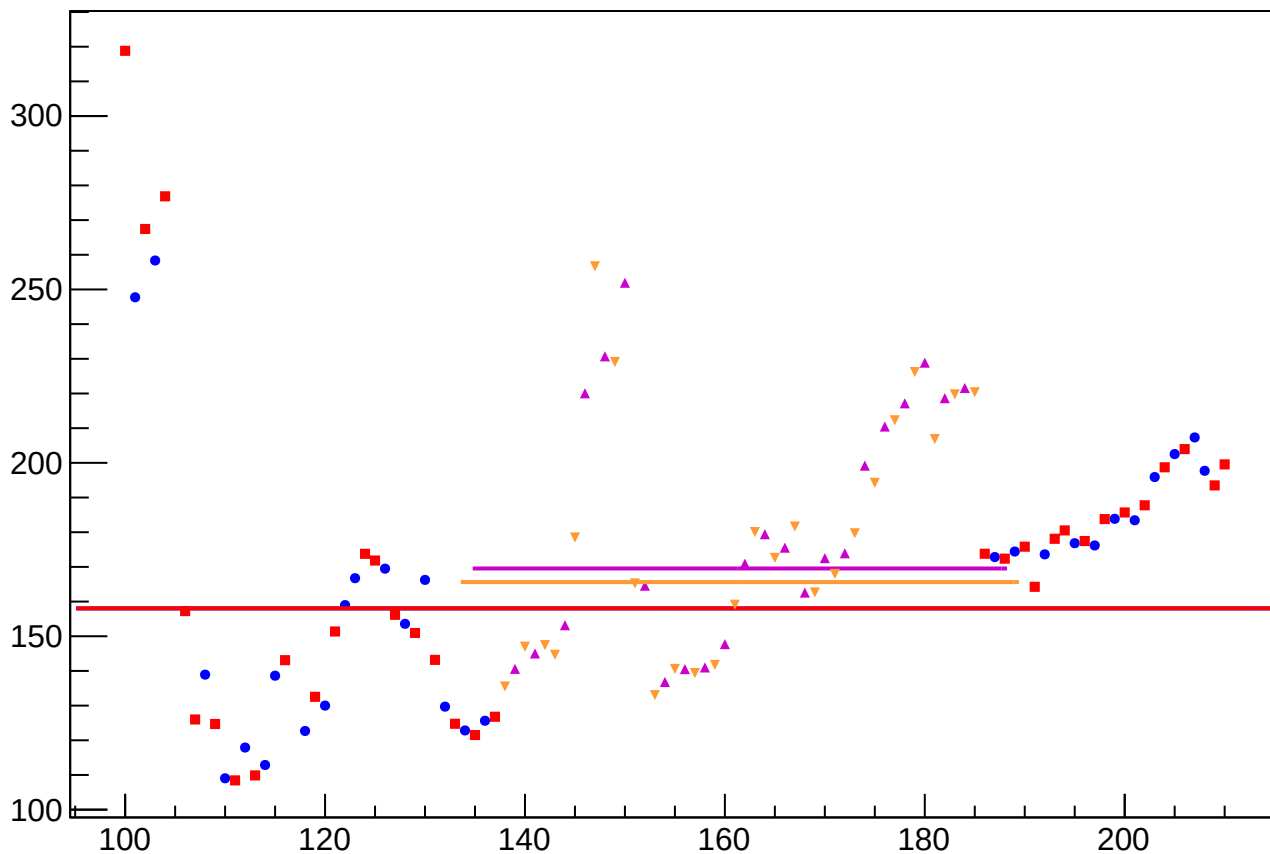
Right: 5753.469+/-29.347 χ^2/NDF : 160575.9/60

In: -1349.207+/-29.950 χ^2/NDF : 137388.5/50

Out: 1409.094+/-28.148 χ^2/NDF : 168943.3/57

All: 115.402+/-20.511 χ^2/NDF : 310835.7/108

asym_bpm0i01WS_rms vs Slug, Sign Corrected



Right In: 158.011+/-0.030 χ^2/NDF : 1310132.6/27

Left Out: 165.616+/-0.028 χ^2/NDF : 1144779.3/24

Right Out: 158.060+/-0.028 χ^2/NDF : 1505443.6/32

Left In: 169.542+/-0.030 χ^2/NDF : 1159241.9/22

Left: 167.471+/-0.020 χ^2/NDF : 2313359.6/47

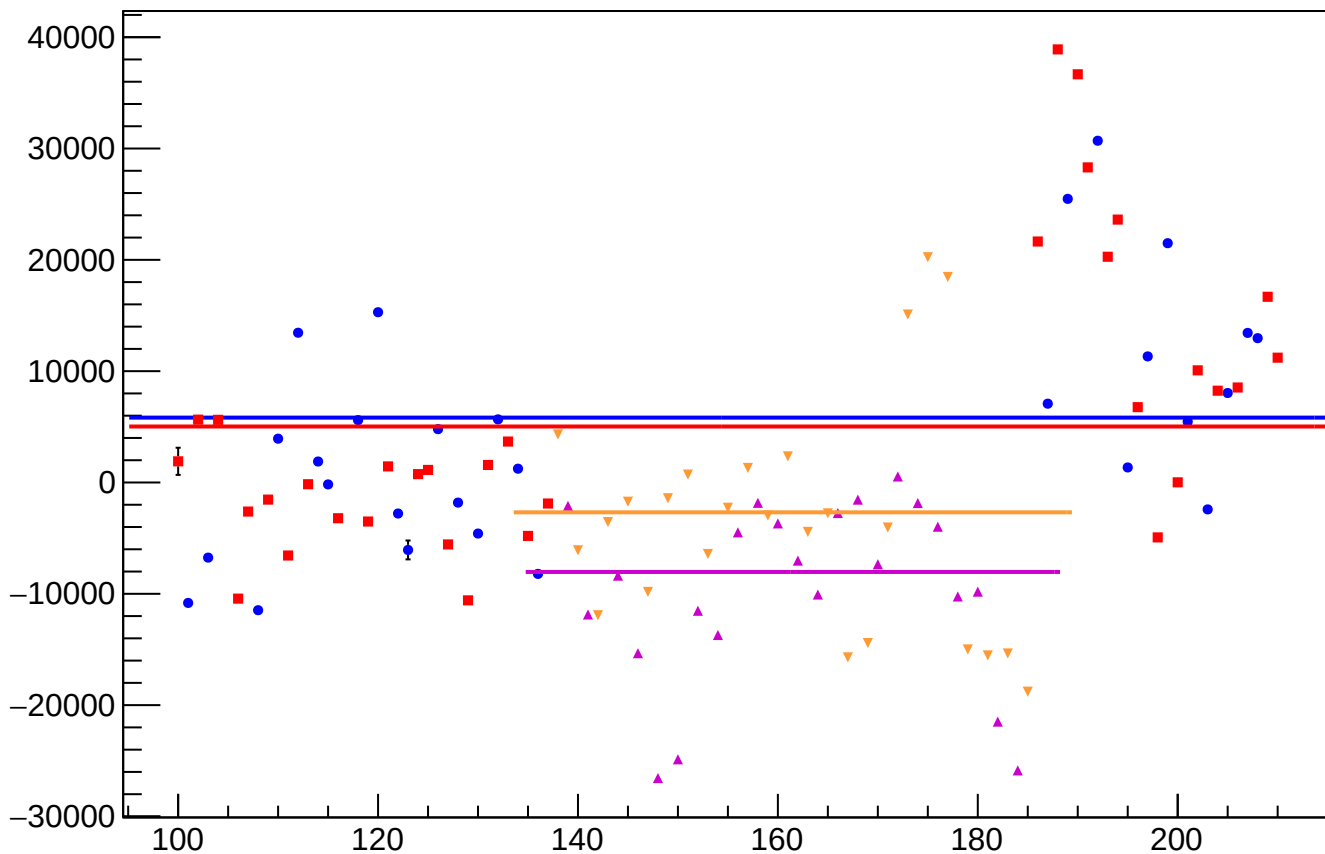
Right: 158.037+/-0.021 χ^2/NDF : 2815577.5/60

In: 163.952+/-0.021 χ^2/NDF : 2543412.1/50

Out: 161.900+/-0.020 χ^2/NDF : 2686248.8/57

All: 162.863+/-0.015 χ^2/NDF : 5234642.9/108

asym_bpm0i01aWS_mean vs Slug, Sign Corrected



Right In: 5827.688+/-36.310

χ^2/NDF : 87024.7/27

Left: -5201.473+/-26.019

χ^2/NDF : 96642.3/47

Left Out: -2680.012+/-35.764

χ^2/NDF : 56820.4/24

Right: 5399.323+/-24.712

χ^2/NDF : 225013.3/60

Right Out: 5029.703+/-33.728

χ^2/NDF : 137729.4/32

In: -803.183+/-26.227

χ^2/NDF : 186017.0/50

Out: 1400.440+/-24.538

χ^2/NDF : 219145.7/57

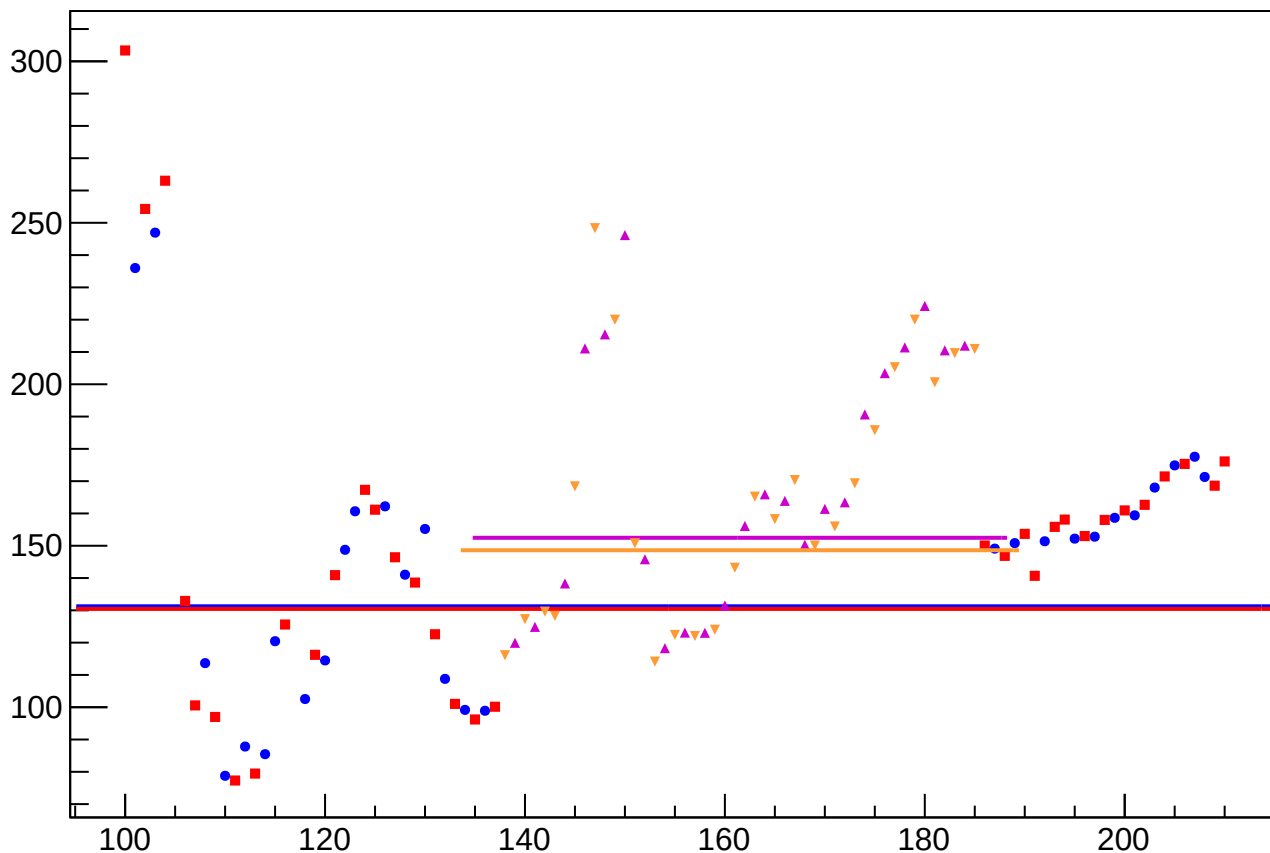
Left In: -8036.826+/-37.924

χ^2/NDF : 29261.6/22

All: 371.892+/-17.918

χ^2/NDF : 408927.2/108

asym_bpm0i01aWS_rms vs Slug, Sign Corrected



Right In: 131.253+/-0.026 χ^2/NDF : 2021339.7/27

Left Out: 148.611+/-0.025 χ^2/NDF :1685424.1/24

Right Out: 130.438+/-0.024 χ^2/NDF : 2414595.7/32

Left In: 152.463+/-0.027 χ^2/NDF :1691517.7/22

Left: 150.424+/-0.018 χ^2/NDF : 3387867.0/47

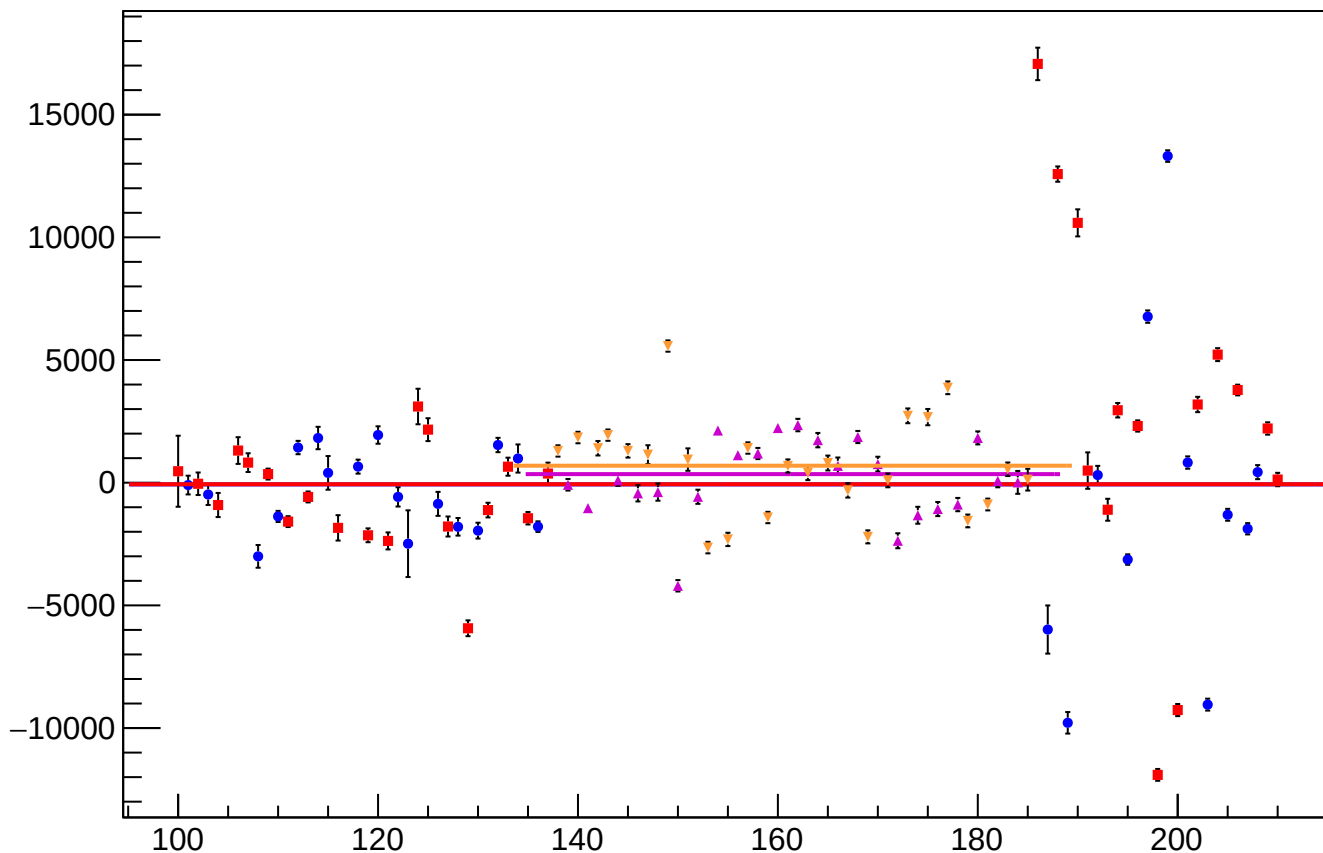
Right: 130.815+/-0.017 χ^2/NDF : 4436476.7/60

In: 141.397+/-0.019 χ^2/NDF :4039257.7/50

Out: 138.992+/-0.017 χ^2/NDF :4373344.2/57

All: 140.115+/-0.013 χ^2/NDF : 8421567.5/108

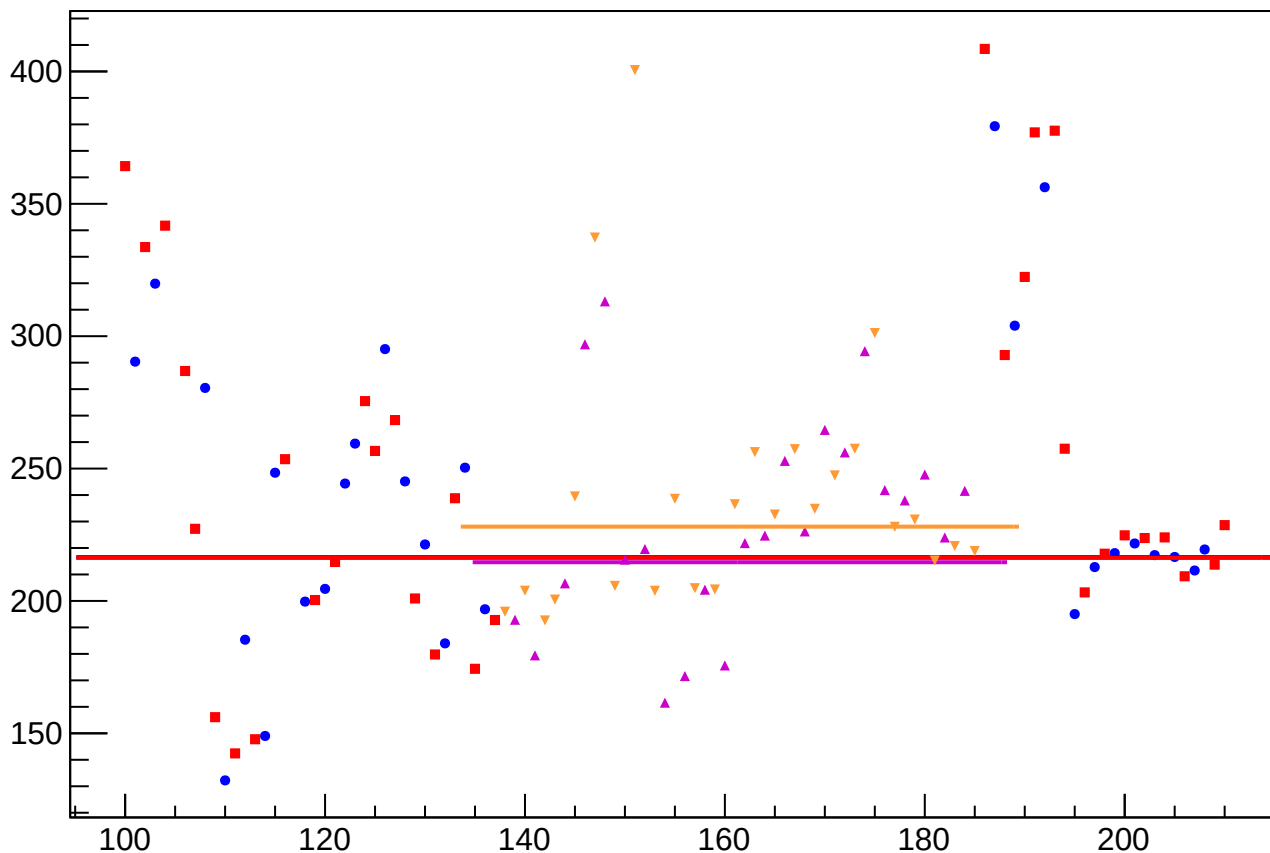
asym_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: -69.682 ± 58.573 χ^2/NDF : 6488.1/27
 Left Out: 692.998 ± 54.303 χ^2/NDF : 1422.0/24
 Right Out: -62.819 ± 55.286 χ^2/NDF : 8216.4/32
 Left In: 349.623 ± 53.094 χ^2/NDF : 981.0/22

Left: 517.444 ± 37.963 χ^2/NDF : 2423.4/47
 Right: -66.053 ± 40.205 χ^2/NDF : 14704.6/60
 In: 160.493 ± 39.338 χ^2/NDF : 7497.2/50
 Out: 321.863 ± 38.741 χ^2/NDF : 9733.6/57
 All: 242.411 ± 27.603 χ^2/NDF : 17239.4/108

asym_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 216.539 ± 0.041 $\chi^2/\text{NDF}: 1150967.2/27$

Left Out: 228.061 ± 0.038 $\chi^2/\text{NDF}: 826343.8/24$

Right Out: 216.251 ± 0.039 $\chi^2/\text{NDF}: 1827024.1/32$

Left In: 214.627 ± 0.038 $\chi^2/\text{NDF}: 1025683.3/22$

Left: 221.193 ± 0.027 $\chi^2/\text{NDF}: 1914604.4/47$

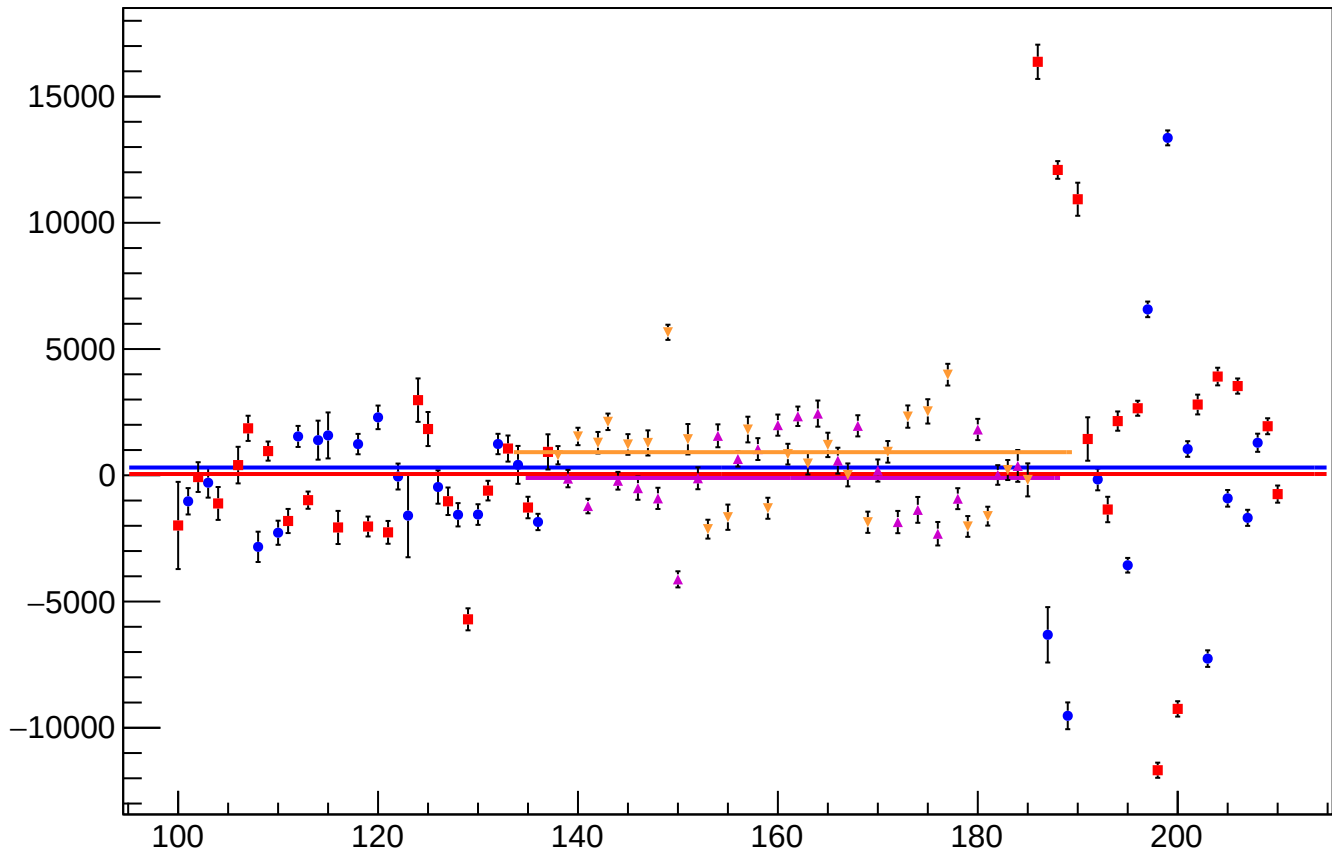
Right: 216.387 ± 0.028 $\chi^2/\text{NDF}: 2978016.8/60$

In: 215.489 ± 0.028 $\chi^2/\text{NDF}: 2177820.3/50$

Out: 222.262 ± 0.027 $\chi^2/\text{NDF}: 2699815.0/57$

All: 218.927 ± 0.020 $\chi^2/\text{NDF}: 4907728.3/108$

asym_bpm0l02WS_mean vs Slug, Sign Corrected



Right In: 307.856+/-79.625 χ^2/NDF : 3705.1/27

Left Out: 915.968+/-83.398 χ^2/NDF : 618.3/24

Right Out: 50.578+/-75.042 χ^2/NDF : 5290.4/32

Left In: -106.116+/-84.393 χ^2/NDF : 390.3/22

Left: 410.985+/-59.320 χ^2/NDF : 1082.8/47

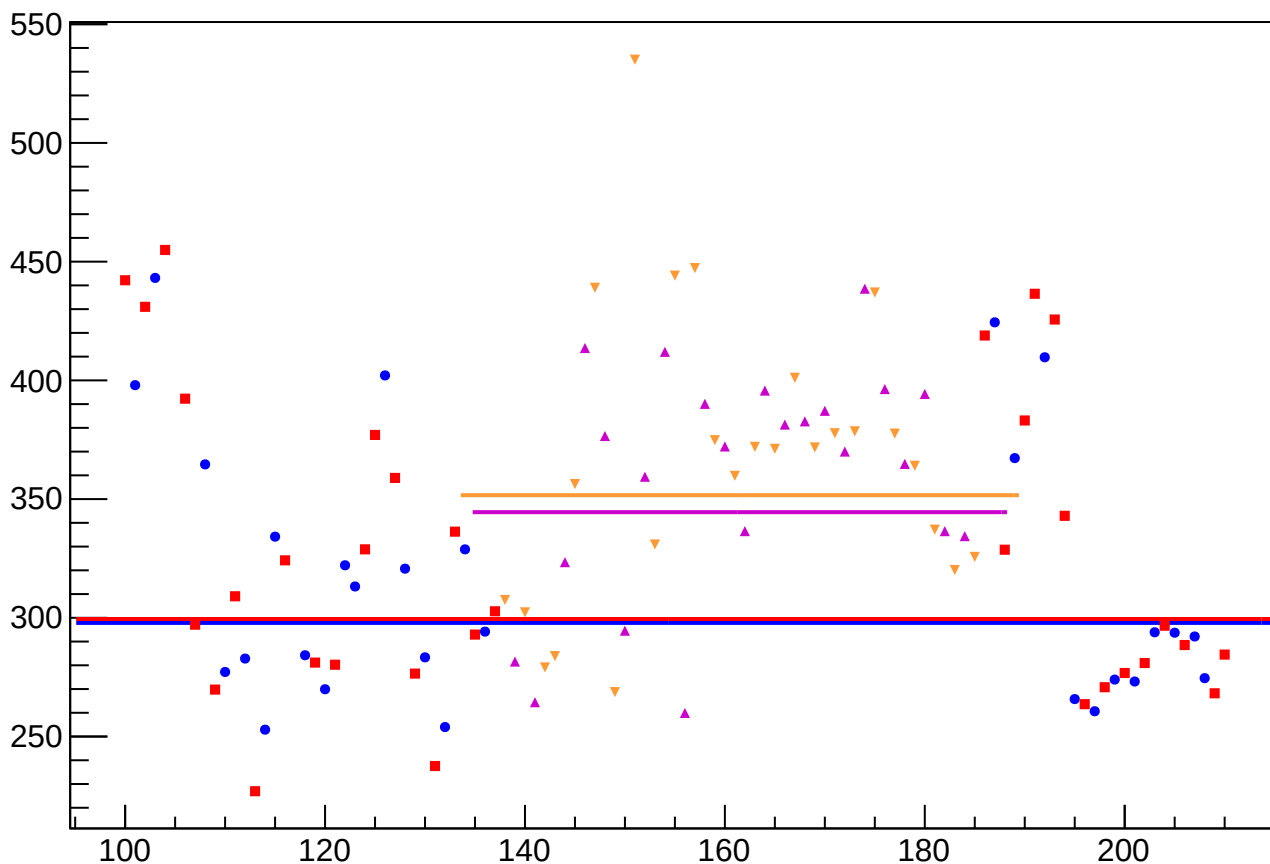
Right: 171.601+/-54.611 χ^2/NDF : 9001.1/60

In: 112.895+/-57.916 χ^2/NDF : 4108.1/50

Out: 437.758+/-55.784 χ^2/NDF : 5968.2/57

All: 281.415+/-40.178 χ^2/NDF : 10092.7/108

asym_bpm0l02WS_rms vs Slug, Sign Corrected



Right In: 297.857+/-0.056 χ^2/NDF : 618722.2/27

Left Out: 351.633+/-0.059 χ^2/NDF : 907849.3/24

Right Out: 299.501+/-0.053 χ^2/NDF : 893362.3/32

Left In: 344.491+/-0.060 χ^2/NDF : 768885.4/22

Left: 348.104+/-0.042 χ^2/NDF : 1683981.7/47

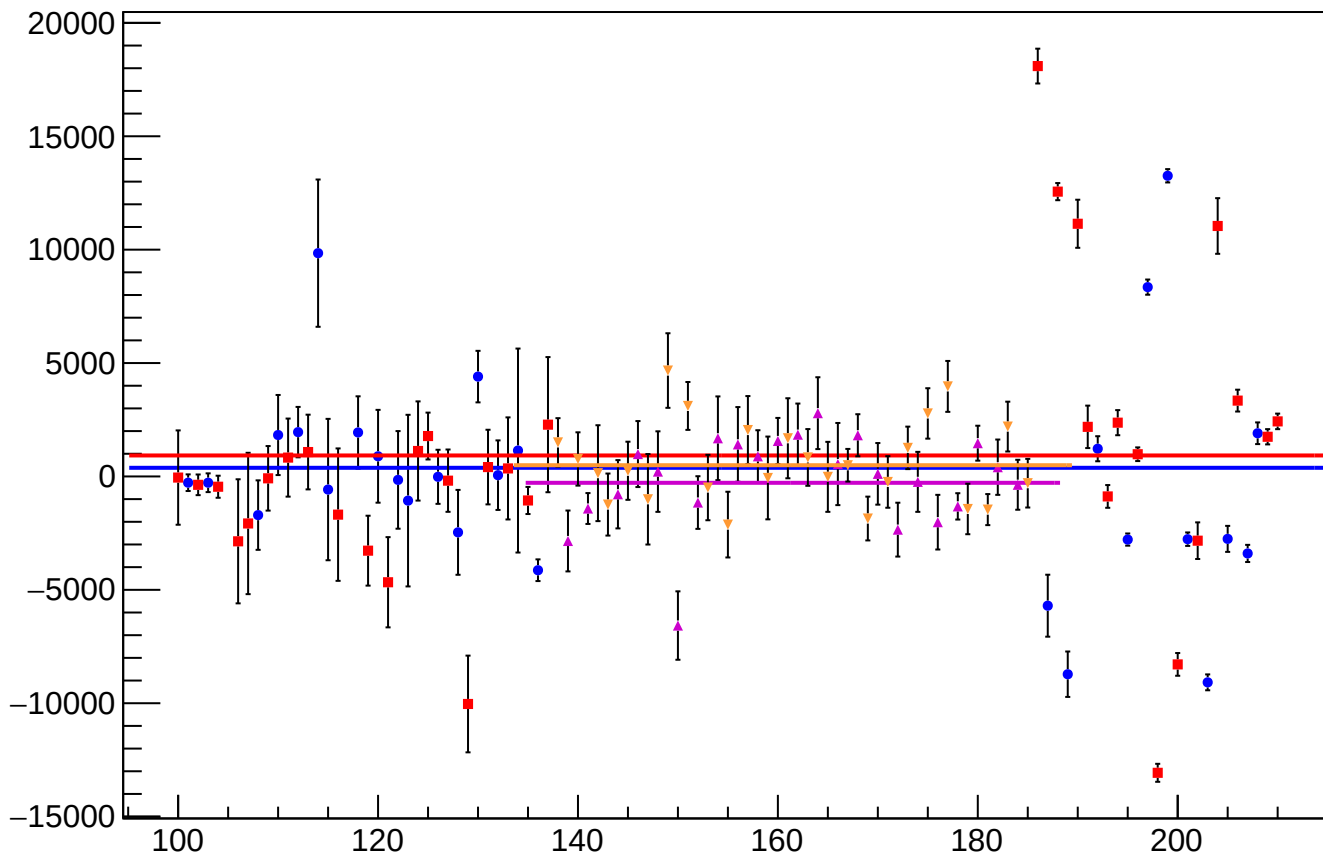
Right: 298.728+/-0.039 χ^2/NDF : 1512535.9/60

In: 319.819+/-0.041 χ^2/NDF : 1710690.0/50

Out: 322.825+/-0.039 χ^2/NDF : 2233062.0/57

All: 321.378+/-0.028 χ^2/NDF : 3946546.3/108

asym_bpm0l03WS_mean vs Slug, Sign Corrected



Right In: 381.162 $\pm$ 102.253 χ^2 /NDF: 3833.6/27

Left Out: 495.014 $\pm$ 231.058 χ^2 /NDF: 56.2/24

Right Out: 925.301 $\pm$ 111.781 χ^2 /NDF: 3360.2/32

Left In: -280.692 $\pm$ 232.048 χ^2 /NDF: 57.2/22

Left: 108.818 $\pm$ 163.732 χ^2 /NDF: 119.1/47

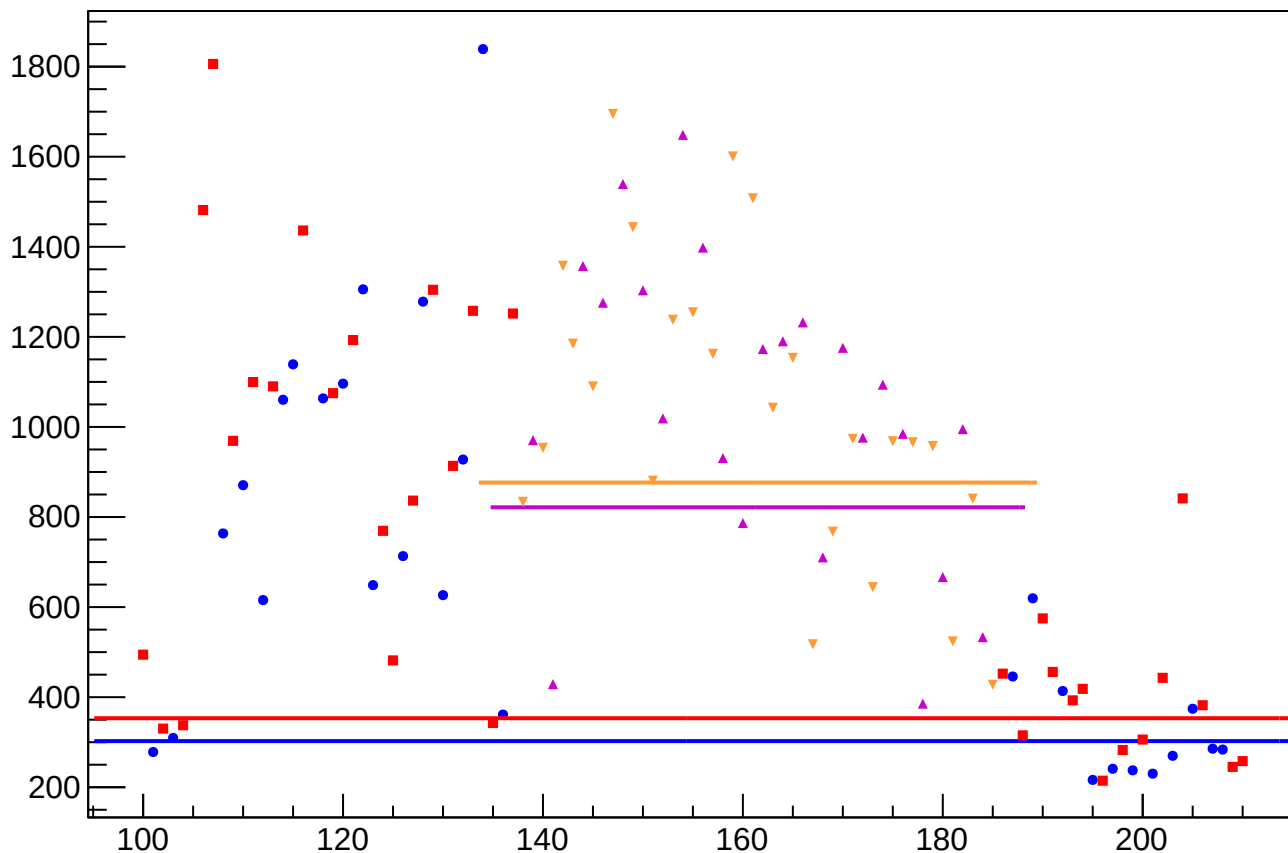
Right: 629.056 $\pm$ 75.448 χ^2 /NDF: 7206.7/60

In: 273.543 $\pm$ 93.571 χ^2 /NDF: 3897.6/50

Out: 843.695 $\pm$ 100.624 χ^2 /NDF: 3419.3/57

All: 537.938 $\pm$ 68.523 χ^2 /NDF: 7334.1/108

asym_bpm0l03WS_rms vs Slug, Sign Corrected



Right In: 302.434+/-0.072 χ^2/NDF : 4406201.8/27

Left Out: 876.560+/-0.163 χ^2/NDF : 3434698.7/24

Right Out: 353.269+/-0.079 χ^2/NDF : 5917308.0/32

Left In: 821.657+/-0.164 χ^2/NDF : 4443094.2/22

Left: 849.226+/-0.116 χ^2/NDF : 7934012.4/47

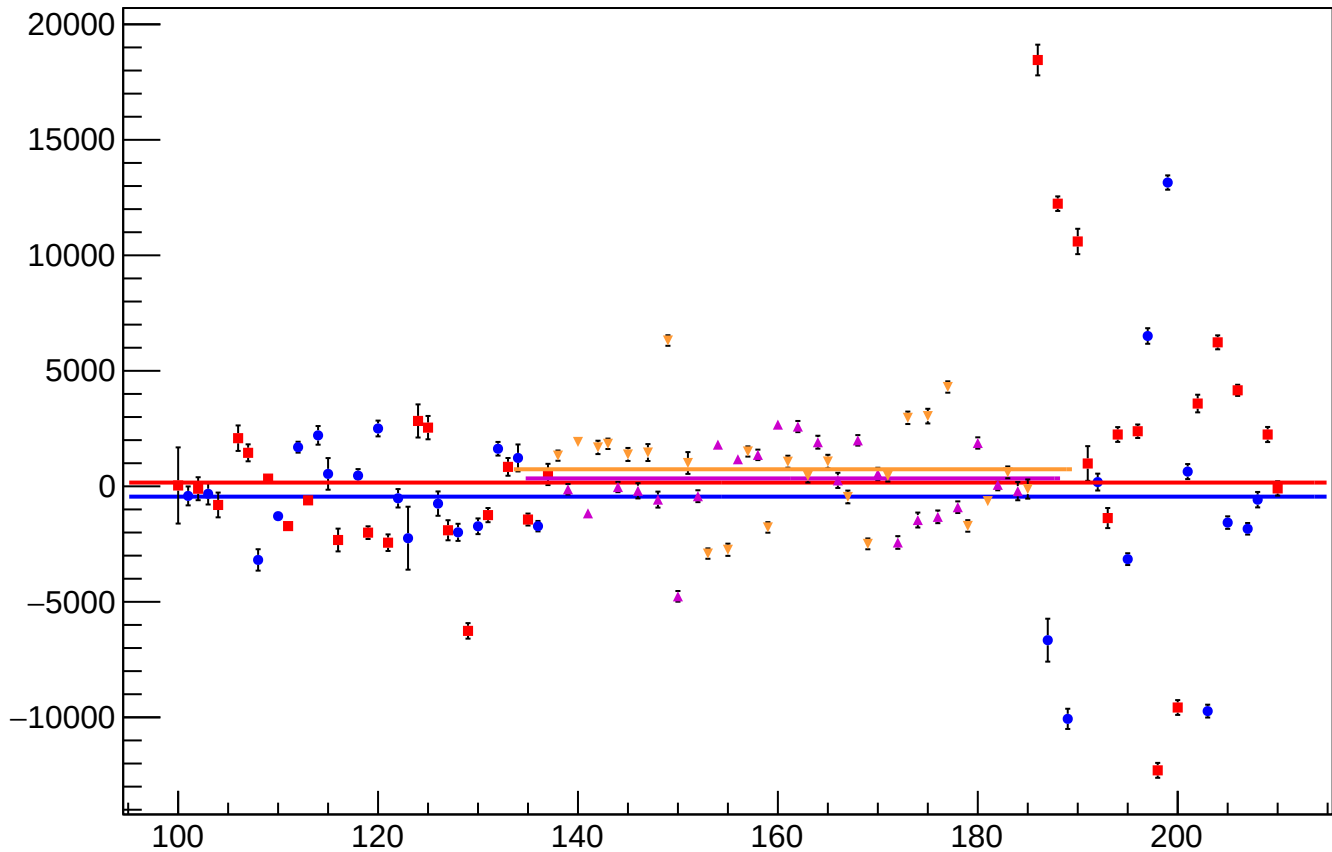
Right: 325.593+/-0.053 χ^2/NDF : 10548706.1/60

In: 386.861+/-0.066 χ^2/NDF : 17234541.4/50

Out: 452.514+/-0.071 χ^2/NDF : 17664749.2/57

All: 417.306+/-0.048 χ^2/NDF : 35355863.5/10

asym_bpm0l04WS_mean vs Slug, Sign Corrected



Right In: -446.481+/-62.513 χ^2/NDF : 4545.3/27

Left Out: 738.847+/-51.649 χ^2/NDF :1935.2/24

Right Out: 162.530+/-58.179 χ^2/NDF : 6667.3/32

Left In: 342.465+/-50.044 χ^2/NDF :1254.9/22

Left: 534.403+/-35.941 χ^2/NDF : 3220.5/47

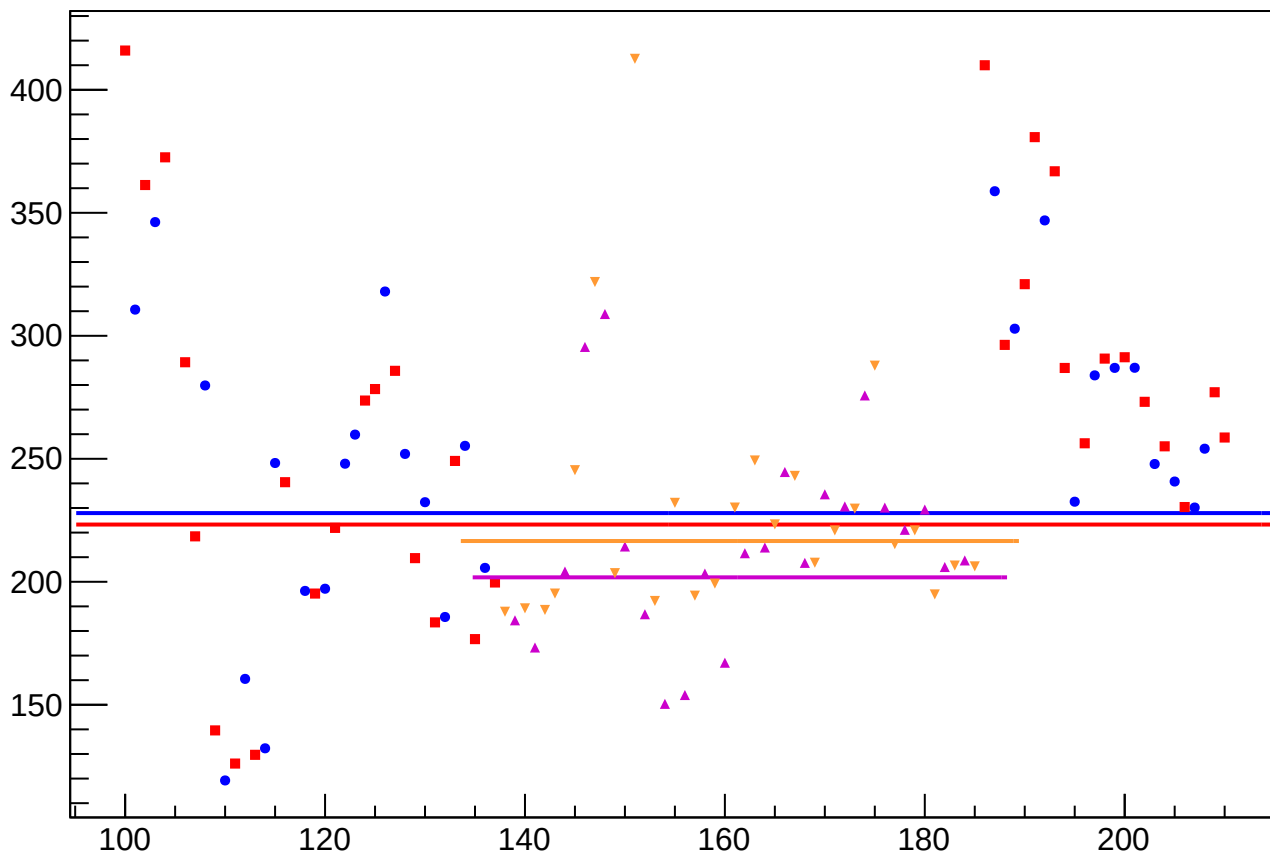
Right: -120.138+/-42.589 χ^2/NDF : 11263.4/60

In: 34.327+/-39.068 χ^2/NDF :5897.3/50

Out: 484.835+/-38.625 χ^2/NDF :8657.4/57

All: 262.150+/-27.467 χ^2/NDF : 14621.9/108

asym_bpm0l04WS_rms vs Slug, Sign Corrected



Right In: 227.930 ± 0.044 χ^2/NDF : 1787896.9/27

Left Out: 216.574 ± 0.037 χ^2/NDF : 886214.1/24

Right Out: 223.272 ± 0.041 χ^2/NDF : 2921684.0/32

Left In: 201.805 ± 0.035 χ^2/NDF : 1087243.4/22

Left: 208.957 ± 0.025 χ^2/NDF : 2057801.5/47

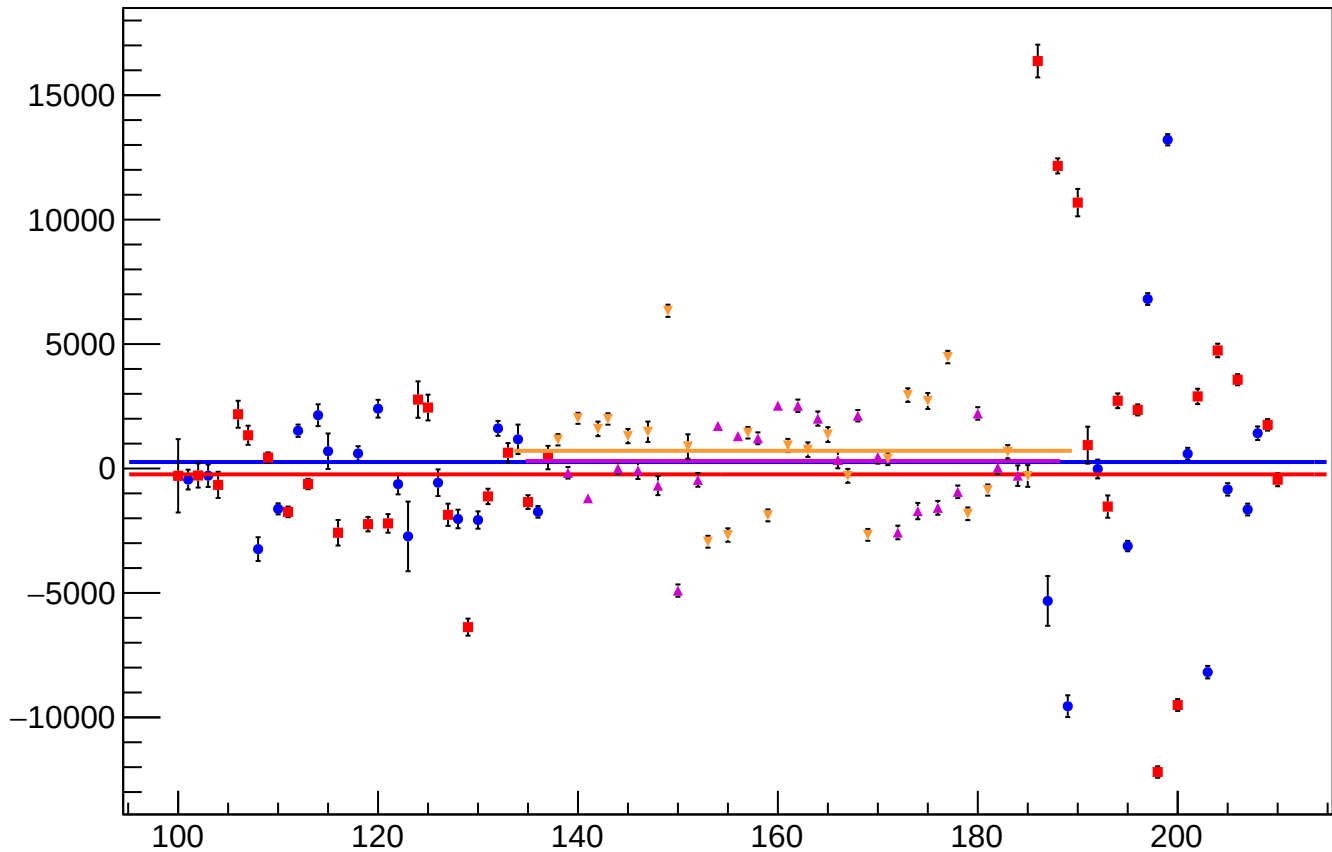
Right: 225.434 ± 0.030 χ^2/NDF : 4715530.8/60

In: 212.009 ± 0.028 χ^2/NDF : 3088007.6/50

Out: 219.526 ± 0.027 χ^2/NDF : 3822722.1/57

All: 215.810 ± 0.019 χ^2/NDF : 6948177.9/108

asym_bpm0l05WS_mean vs Slug, Sign Corrected



Right In: 260.538 $\pm$ 58.661 χ^2 /NDF: 6488.8/27

Left Out: 711.174 $\pm$ 53.245 χ^2 /NDF:1835.3/24

Right Out: -235.757 $\pm$ 54.965 χ^2 /NDF: 8530.3/32

Left In: 300.516 $\pm$ 51.984 χ^2 /NDF:1208.6/22

Left: 500.925 $\pm$ 37.196 χ^2 /NDF: 3074.4/47

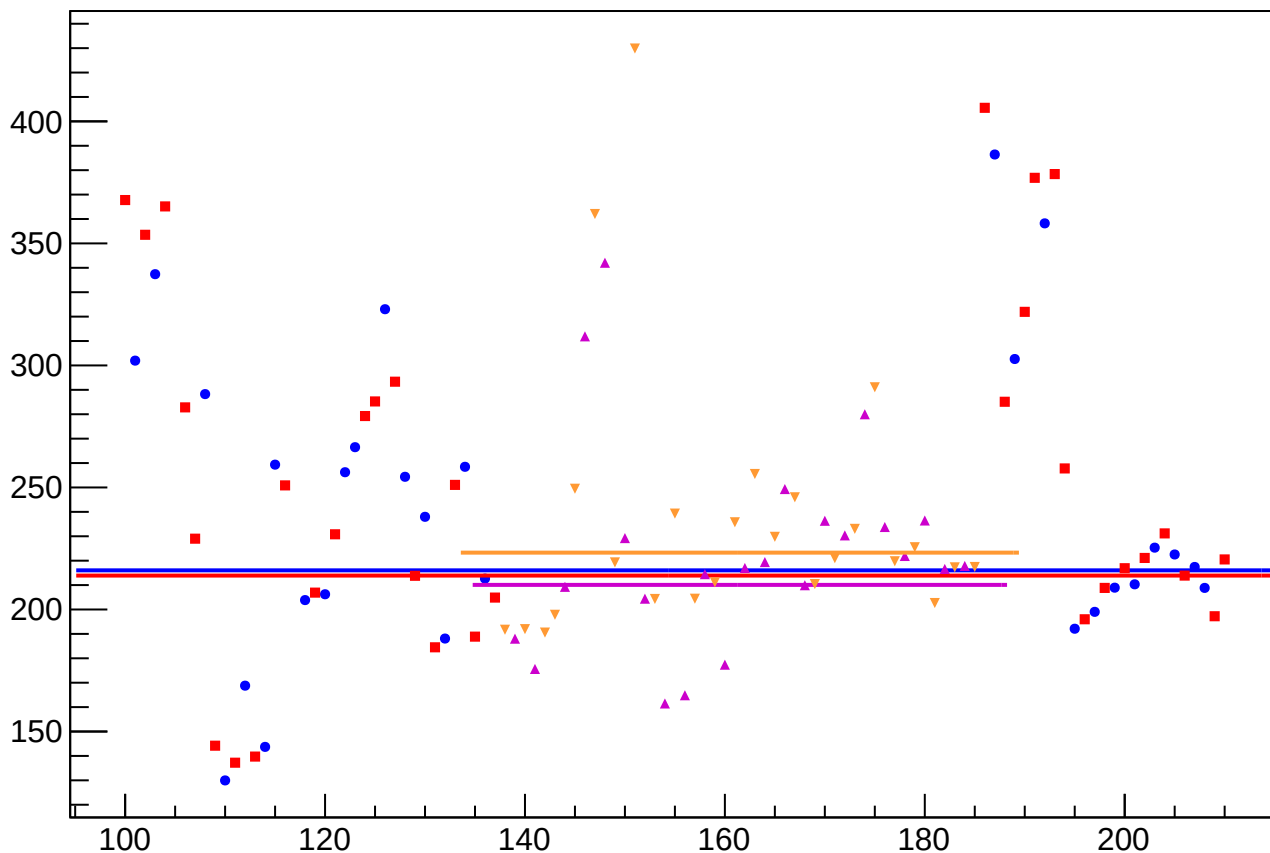
Right: -3.736 $\pm$ 40.109 χ^2 /NDF: 15057.2/60

In: 282.931 $\pm$ 38.906 χ^2 /NDF:7697.6/50

Out: 252.758 $\pm$ 38.243 χ^2 /NDF:10518.7/57

All: 267.586 $\pm$ 27.273 χ^2 /NDF: 18216.7/108

asym_bpm0l05WS_rms vs Slug, Sign Corrected



Right In: 216.039 ± 0.041 $\chi^2/\text{NDF}: 1346894.4/27$

Left Out: 223.296 ± 0.038 $\chi^2/\text{NDF}: 922768.4/24$

Right Out: 213.897 ± 0.039 $\chi^2/\text{NDF}: 2105396.8/32$

Left In: 210.080 ± 0.037 $\chi^2/\text{NDF}: 1015274.5/22$

Left: 216.530 ± 0.026 $\chi^2/\text{NDF}: 2001132.1/47$

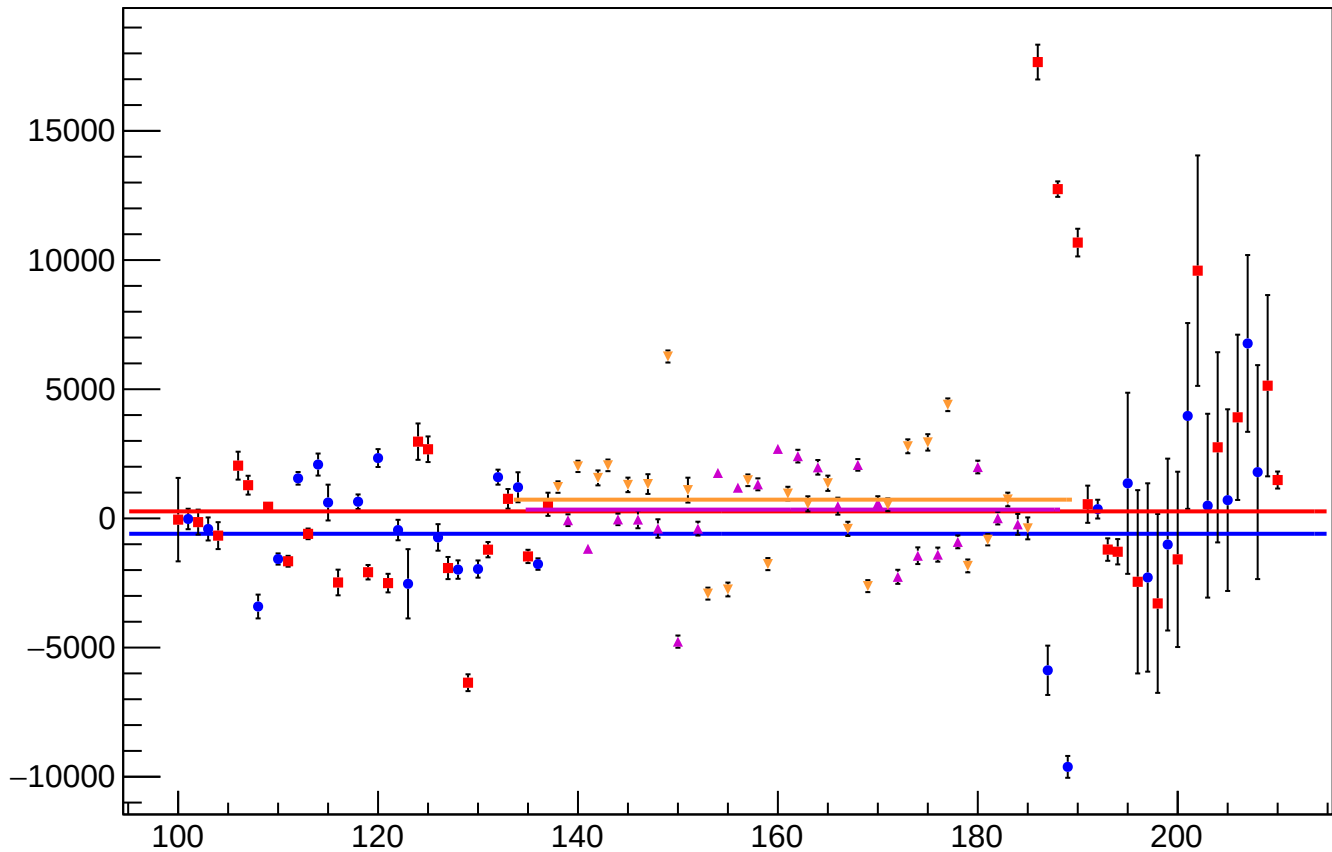
Right: 214.899 ± 0.028 $\chi^2/\text{NDF}: 3453711.5/60$

In: 212.701 ± 0.028 $\chi^2/\text{NDF}: 2373731.2/50$

Out: 218.746 ± 0.027 $\chi^2/\text{NDF}: 3058335.9/57$

All: 215.776 ± 0.019 $\chi^2/\text{NDF}: 5456621.6/108$

asym_bpm0l06WS_mean vs Slug, Sign Corrected



Right In: -595.215+/-79.044 χ^2/NDF : 898.9/27

Left Out: 725.866+/-52.158 χ^2/NDF : 1912.7/24

Right Out: 271.839+/-68.441 χ^2/NDF : 3655.8/32

Left In: 340.502+/-50.802 χ^2/NDF : 1201.8/22

Left: 528.110+/-36.393 χ^2/NDF : 3142.6/47

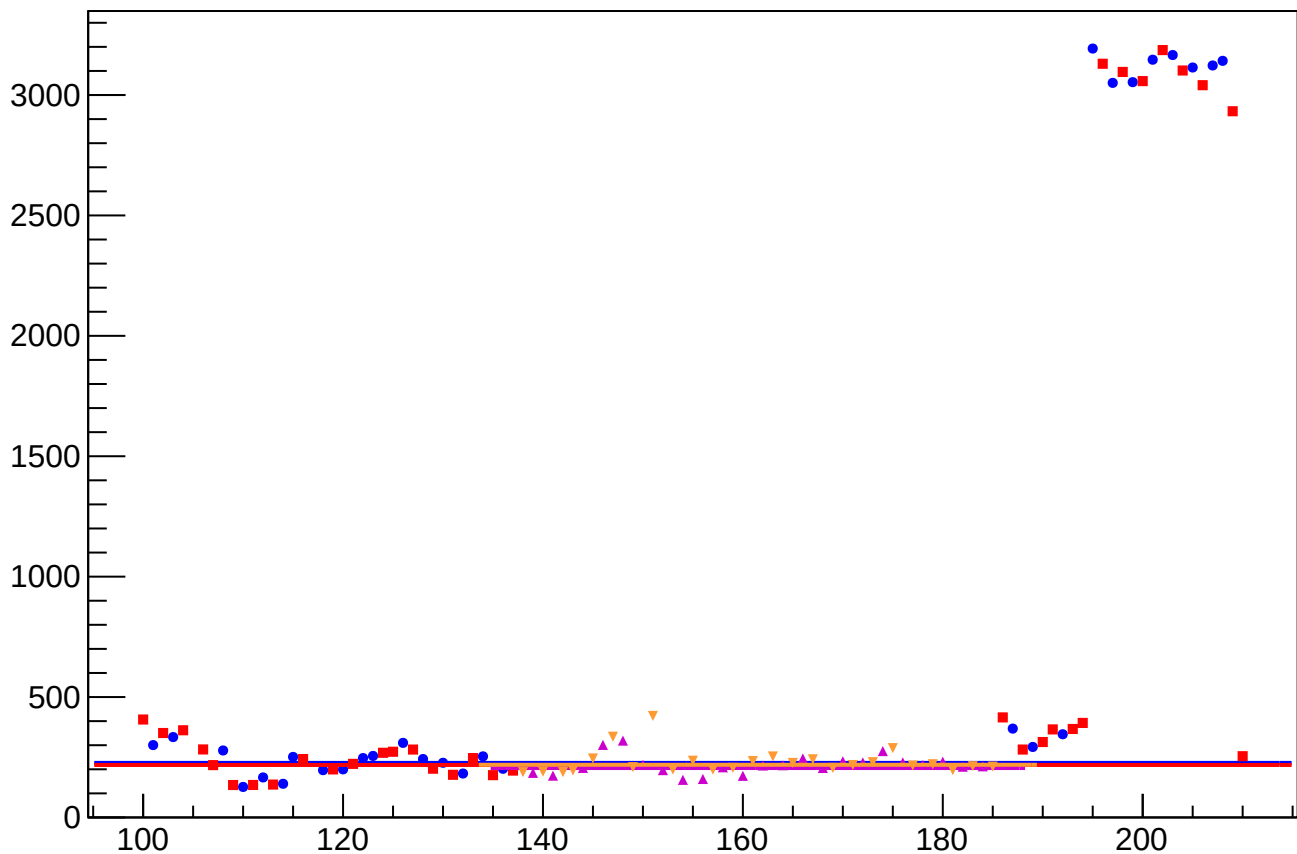
Right: -99.674+/-51.741 χ^2/NDF : 4623.6/60

In: 66.968+/-42.737 χ^2/NDF : 2200.0/50

Out: 559.054+/-41.485 χ^2/NDF : 5596.4/57

All: 320.325+/-29.767 χ^2/NDF : 7864.6/108

asym_bpm0l06WS_rms vs Slug, Sign Corrected



Right In: 226.566+/-0.056 χ^2/NDF : 11852774.2/27

Left Out: 218.768+/-0.037 χ^2/NDF : 896914.5/24

Right Out: 217.949+/-0.048 χ^2/NDF : 11477630.1/32

Left In: 205.249+/-0.036 χ^2/NDF : 997168.8/22

Left: 211.831+/-0.026 χ^2/NDF : 1963037.5/47

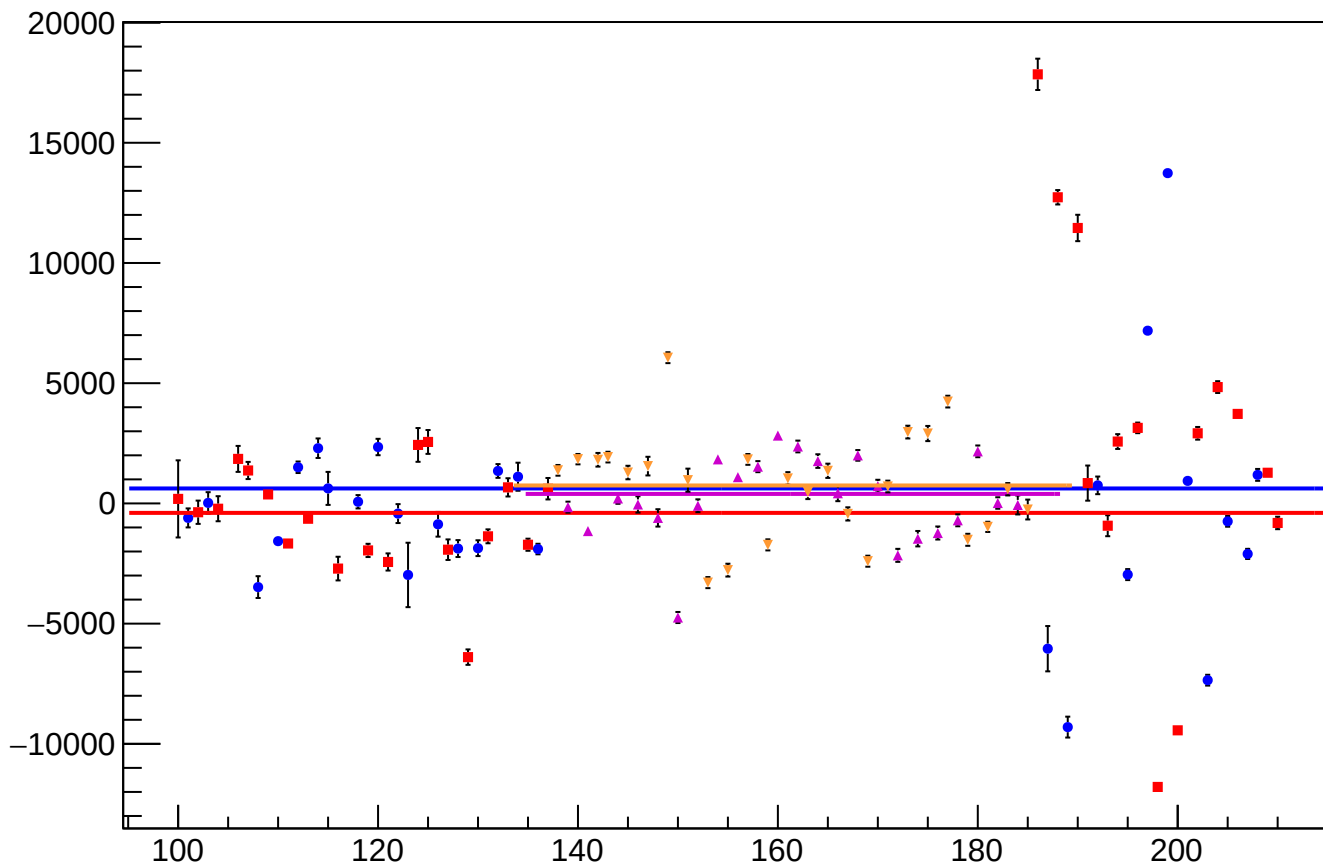
Right: 221.641+/-0.037 χ^2/NDF : 23343990.1/60

In: 211.481+/-0.030 χ^2/NDF : 12952884.5/50

Out: 218.467+/-0.029 χ^2/NDF : 12374726.1/57

All: 215.078+/-0.021 χ^2/NDF : 25355131.8/10

asym_bpm0l07WS_mean vs Slug, Sign Corrected



Right In: 622.048 $\pm$ 54.615 χ^2 /NDF: 8452.9/27

Left Out: 746.405 $\pm$ 51.592 χ^2 /NDF:1942.1/24

Right Out: -393.698 $\pm$ 51.321 χ^2 /NDF: 10371.7/32

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

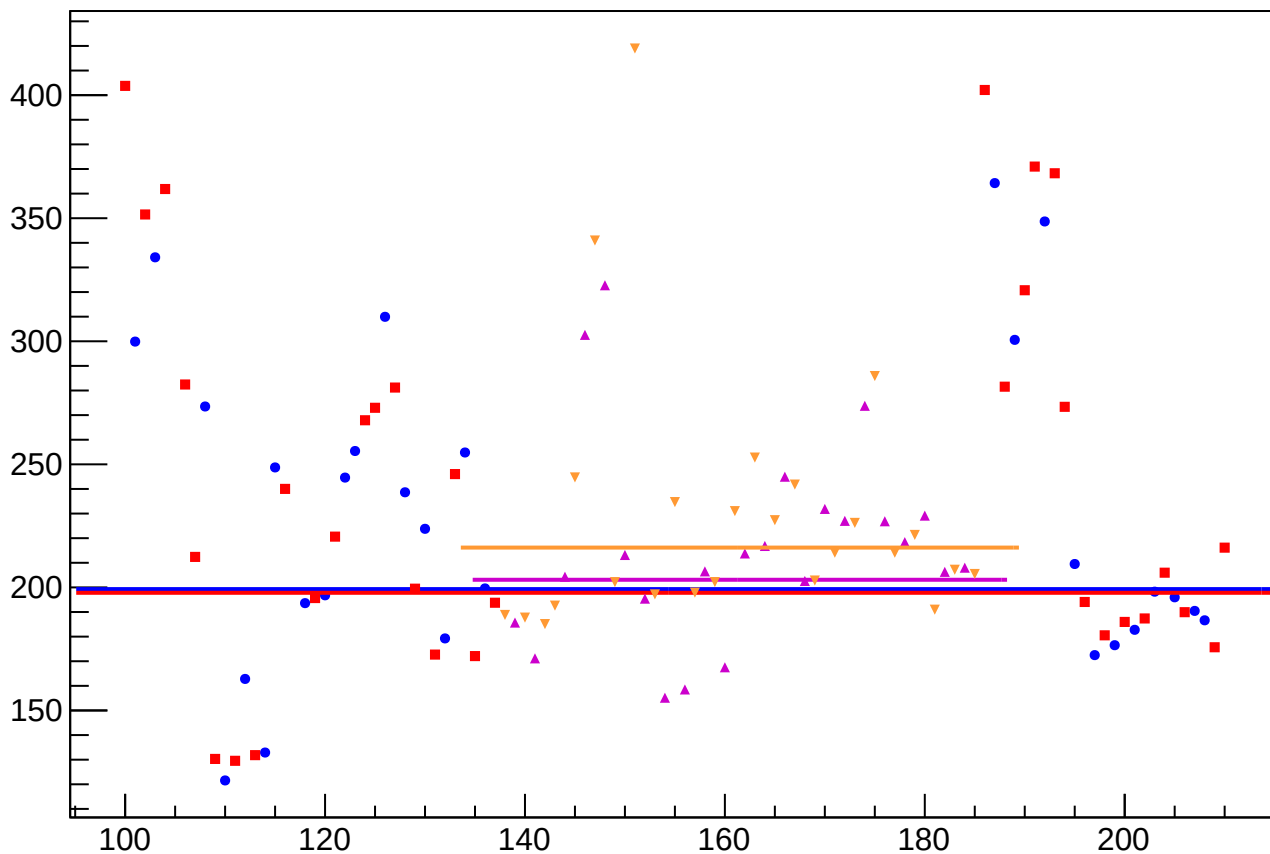
Right: 82.623 $\pm$ 37.400 χ^2 /NDF: 19008.2/60

In: 498.891 $\pm$ 37.004 χ^2 /NDF:9698.7/50

Out: 173.357 $\pm$ 36.385 χ^2 /NDF:12559.2/57

All: 333.380 $\pm$ 25.944 χ^2 /NDF: 22297.3/108

asym_bpm0l07WS_rms vs Slug, Sign Corrected



Right In: 199.310+/-0.039 χ^2/NDF : 1529523.9/27

Left Out: 216.178+/-0.036 χ^2/NDF : 946050.8/24

Right Out: 197.808+/-0.036 χ^2/NDF : 2474719.8/32

Left In: 203.101+/-0.036 χ^2/NDF : 1038013.0/22

Left: 209.475+/-0.025 χ^2/NDF : 2049926.5/47

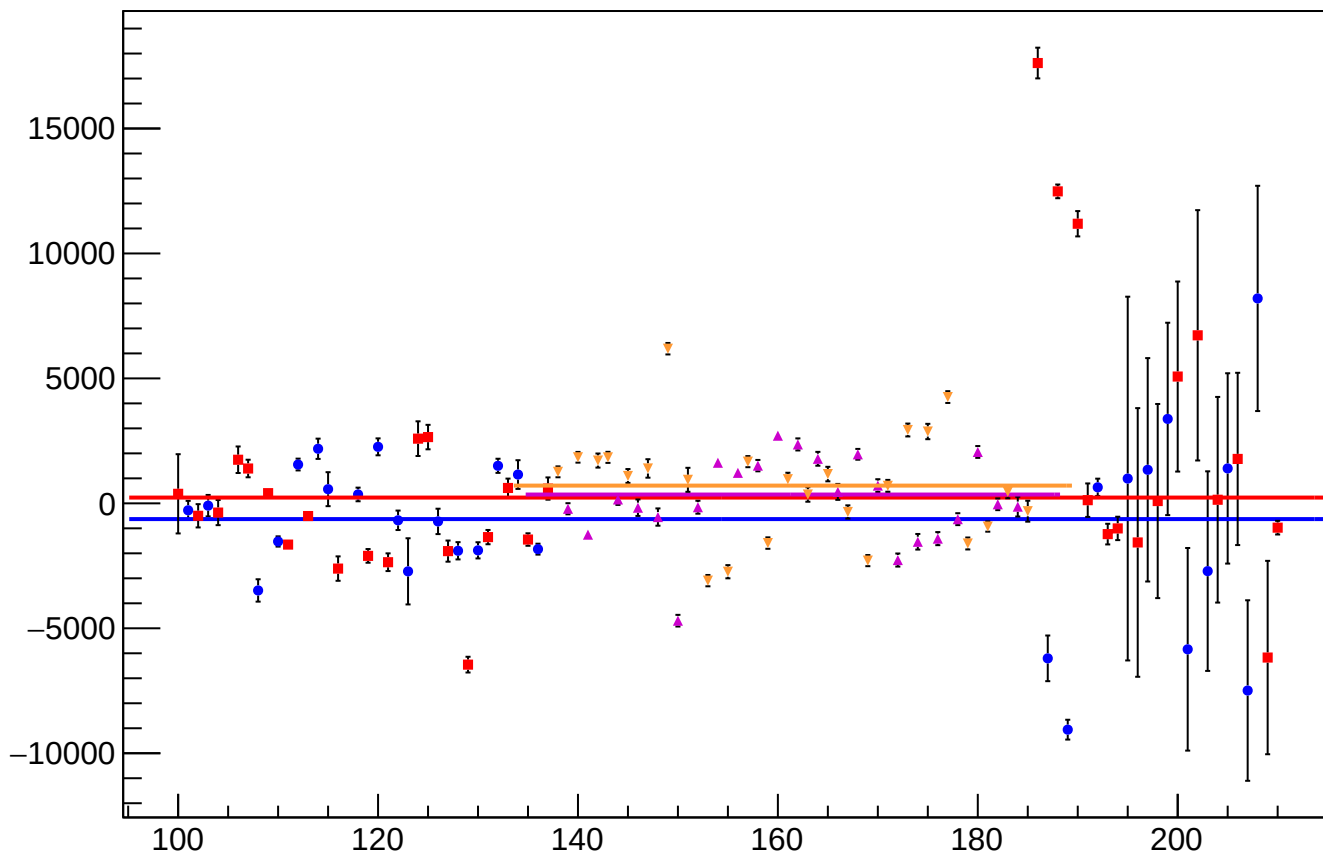
Right: 198.512+/-0.026 χ^2/NDF : 4005046.6/60

In: 201.361+/-0.026 χ^2/NDF : 2572749.6/50

Out: 206.945+/-0.026 χ^2/NDF : 3548213.8/57

All: 204.200+/-0.018 χ^2/NDF : 6144121.5/108

asym_bpm0l08WS_mean vs Slug, Sign Corrected



Right In: -629.893 ± 76.418 χ^2/NDF : 925.7/27

Left Out: 710.238 ± 50.750 χ^2/NDF : 1932.3/24

Right Out: 231.162 ± 65.177 χ^2/NDF : 4188.0/32

Left In: 352.432 ± 49.316 χ^2/NDF : 1233.1/22

Left: 526.207 ± 35.368 χ^2/NDF : 3190.9/47

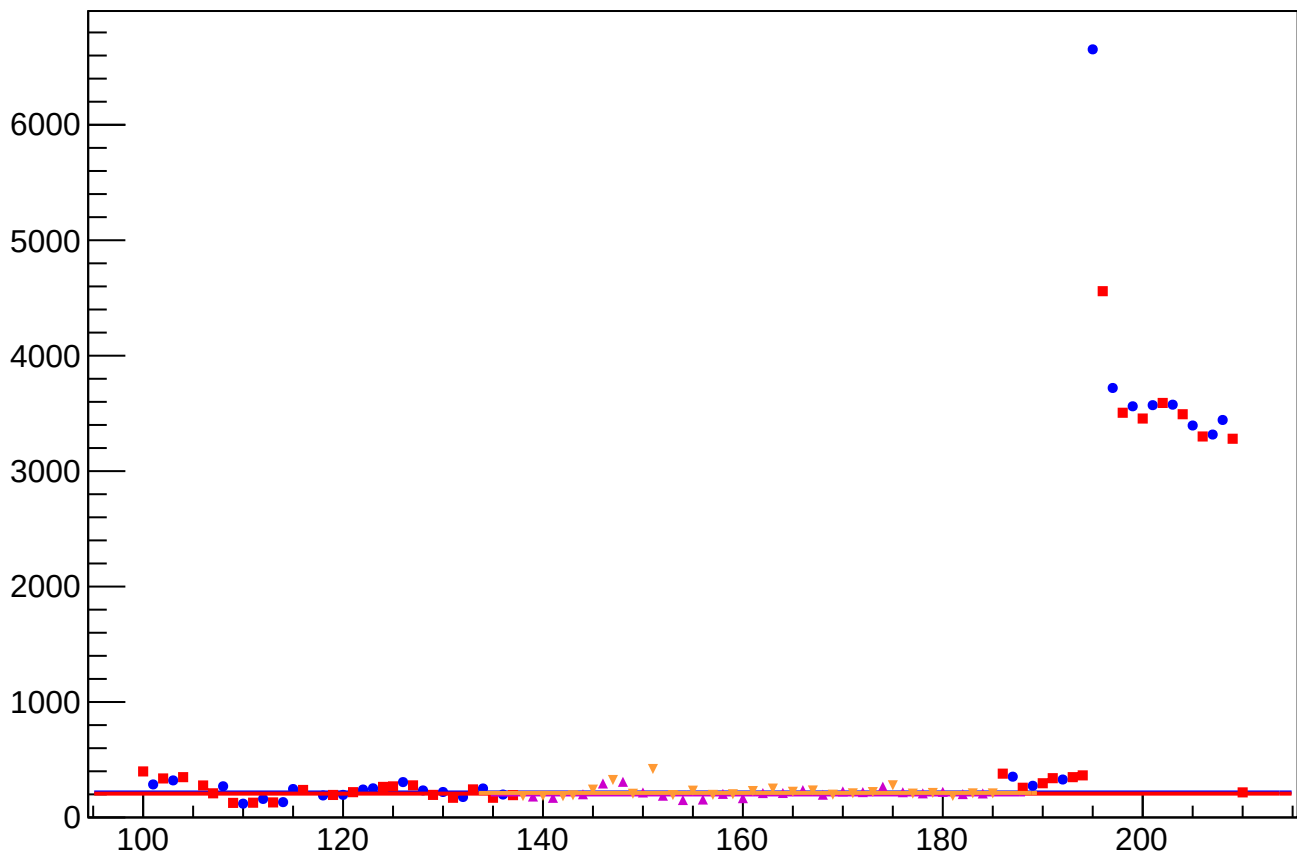
Right: -131.437 ± 49.590 χ^2/NDF : 5187.2/60

In: 63.609 ± 41.437 χ^2/NDF : 2275.4/50

Out: 529.410 ± 40.043 χ^2/NDF : 6154.0/57

All: 304.474 ± 28.795 χ^2/NDF : 8494.7/108

asym_bpm0l08WS_rms vs Slug, Sign Corrected



Right In: 216.684 $\pm$ 0.054 χ^2 /NDF: 12304223.9/27

Left Out: 212.718 $\pm$ 0.036 χ^2 /NDF: 916225.9/24

Right Out: 206.397 $\pm$ 0.046 χ^2 /NDF: 11709906.3/32

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

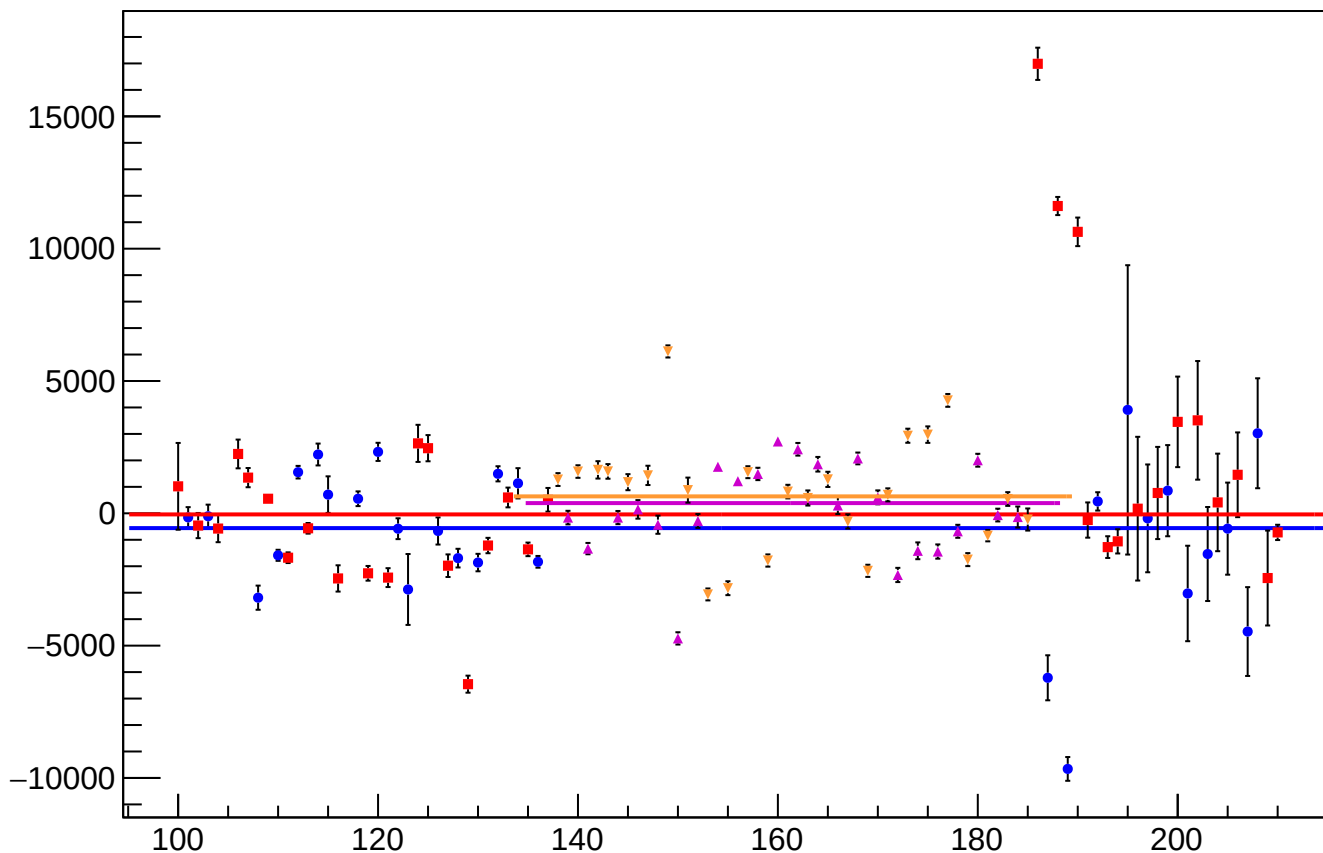
Right: 210.729 $\pm$ 0.035 χ^2 /NDF: 24035109.5/60

In: 204.300 $\pm$ 0.029 χ^2 /NDF: 13364560.5/50

Out: 210.333 $\pm$ 0.028 χ^2 /NDF: 12637842.8/57

All: 207.419 $\pm$ 0.020 χ^2 /NDF: 26024324.6/10

asym_bpm0l09WS_mean vs Slug, Sign Corrected



Right In: -558.936 ± 77.371 $\chi^2/\text{NDF}: 870.9/27$

Left Out: 639.995 ± 52.708 $\chi^2/\text{NDF}: 1859.2/24$

Right Out: -41.305 ± 66.906 $\chi^2/\text{NDF}: 3111.3/32$

Left In: 386.248 ± 50.994 $\chi^2/\text{NDF}: 1238.0/22$

Left: 508.926 ± 36.649 $\chi^2/\text{NDF}: 3109.2/47$

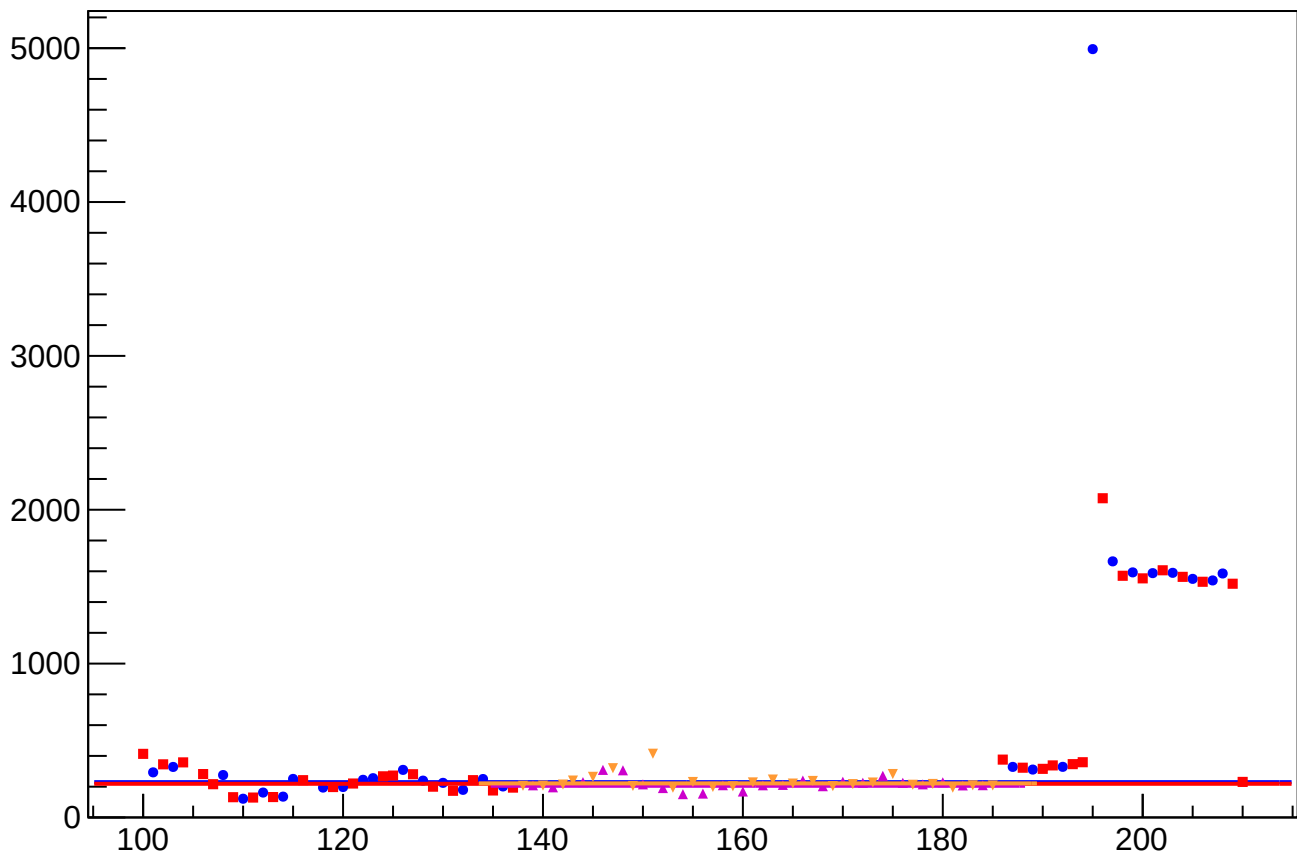
Right: -262.773 ± 50.608 $\chi^2/\text{NDF}: 4007.8/60$

In: 100.009 ± 42.578 $\chi^2/\text{NDF}: 2213.0/50$

Out: 379.089 ± 41.404 $\chi^2/\text{NDF}: 5034.5/57$

All: 243.450 ± 29.683 $\chi^2/\text{NDF}: 7269.6/108$

asym_bpm0l09WS_rms vs Slug, Sign Corrected



Right In: 229.559+/-0.055 χ^2/NDF : 10729817.6/27

Left Out: 221.398+/-0.037 χ^2/NDF : 777833.8/24

Right Out: 218.795+/-0.047 χ^2/NDF : 10161216.9/32

Left In: 205.803+/-0.036 χ^2/NDF : 994903.5/22

Left: 213.343+/-0.026 χ^2/NDF : 1863169.5/47

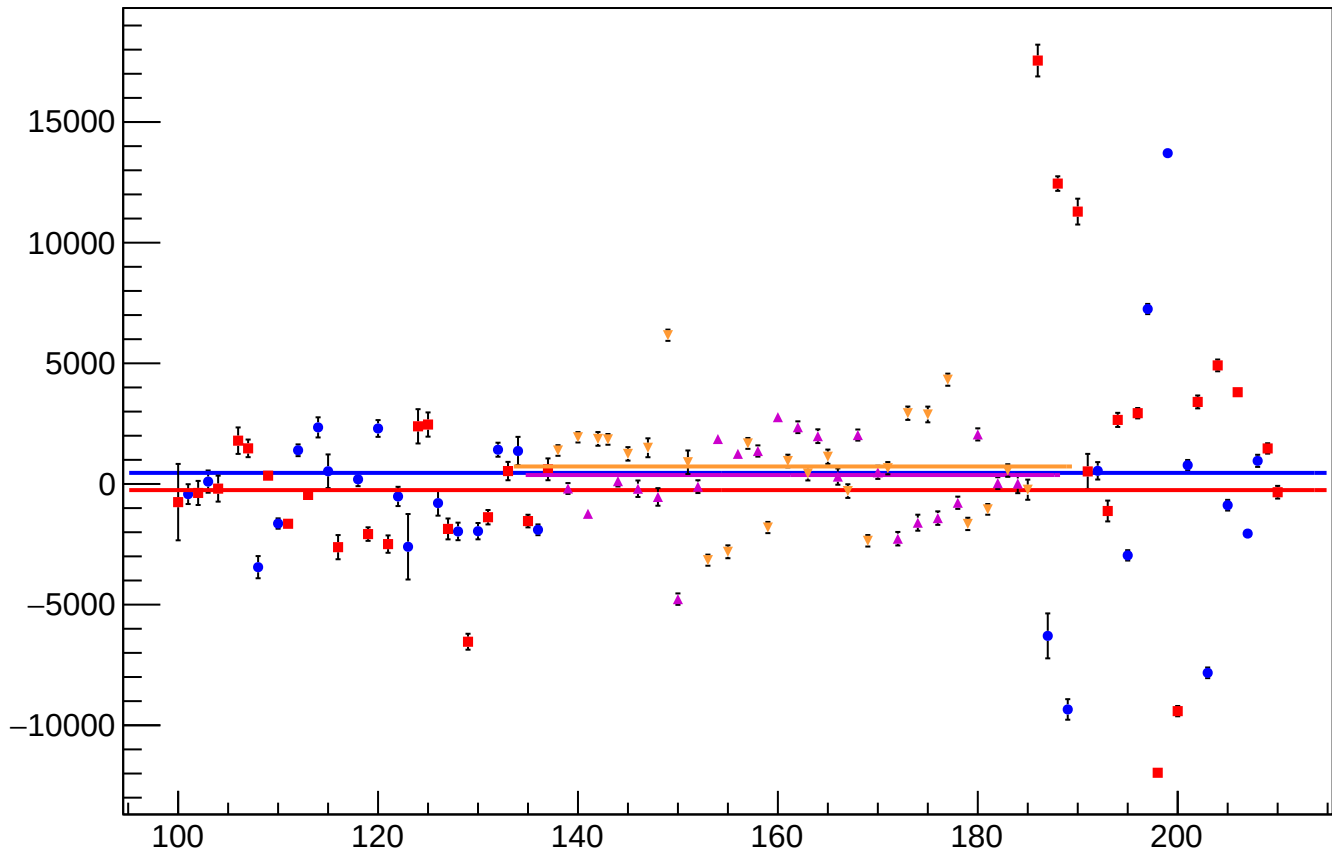
Right: 223.400+/-0.036 χ^2/NDF : 20913186.3/60

In: 212.998+/-0.030 χ^2/NDF : 11856171.3/50

Out: 220.401+/-0.029 χ^2/NDF : 10940919.4/57

All: 216.803+/-0.021 χ^2/NDF : 22828170.3/100

asym_bpm0l10WS_mean vs Slug, Sign Corrected



Right In: 459.718 $\pm$ 55.119 χ^2/NDF : 8441.0/27

Left Out: 725.250 $\pm$ 52.307 χ^2/NDF :1883.1/24

Right Out: -254.105 $\pm$ 52.121 χ^2/NDF : 10045.8/32

Left In: 370.408 $\pm$ 50.884 χ^2/NDF :1223.2/22

Left: 542.938 $\pm$ 36.473 χ^2/NDF : 3129.9/47

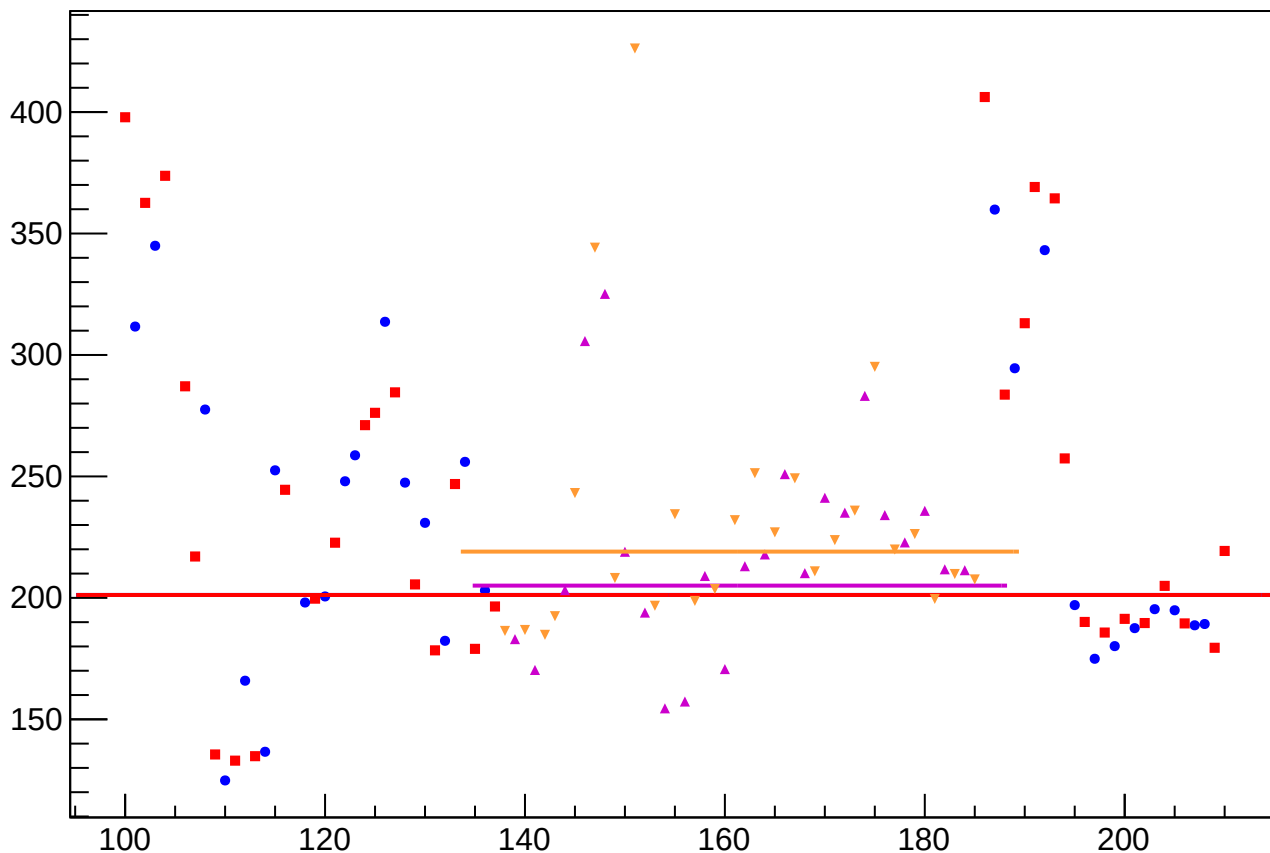
Right: 82.862 $\pm$ 37.871 χ^2/NDF : 18575.3/60

In: 411.501 $\pm$ 37.388 χ^2/NDF :9665.6/50

Out: 233.823 $\pm$ 36.921 χ^2/NDF :12104.8/57

All: 321.544 $\pm$ 26.271 χ^2/NDF : 21781.8/108

asym_bpm0l10WS_rms vs Slug, Sign Corrected



Right In: 201.208+/-0.039 χ^2/NDF : 1488308.7/27

Left Out: 219.049+/-0.037 χ^2/NDF :975564.4/24

Right Out: 201.191+/-0.037 χ^2/NDF : 2325445.0/32

Left In: 205.046+/-0.036 χ^2/NDF :1144197.1/22

Left: 211.855+/-0.026 χ^2/NDF : 2193394.9/47

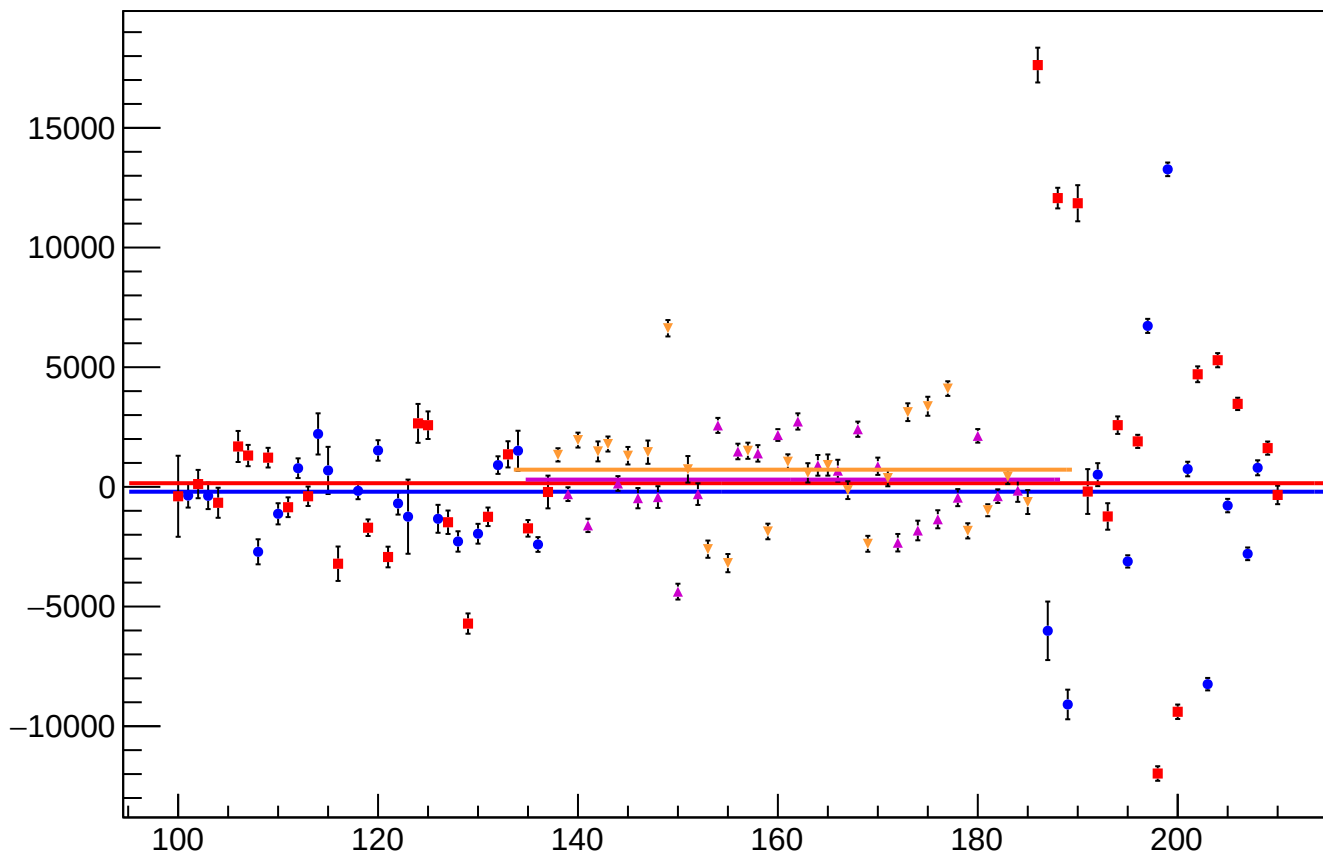
Right: 201.199+/-0.027 χ^2/NDF : 3813753.8/60

In: 203.280+/-0.026 χ^2/NDF :2637741.7/50

Out: 210.088+/-0.026 χ^2/NDF :3417979.6/57

All: 206.727+/-0.019 χ^2/NDF : 6089289.0/108

asym_bpm0r03WS_mean vs Slug, Sign Corrected



Right In: -202.599 ± 73.324 $\chi^2/\text{NDF}: 4399.8/27$

Left Out: 718.705 ± 69.601 $\chi^2/\text{NDF}: 1018.5/24$

Right Out: 152.919 ± 72.028 $\chi^2/\text{NDF}: 5353.8/32$

Left In: 304.161 ± 70.958 $\chi^2/\text{NDF}: 643.5/22$

Left: 515.435 ± 49.688 $\chi^2/\text{NDF}: 1679.4/47$

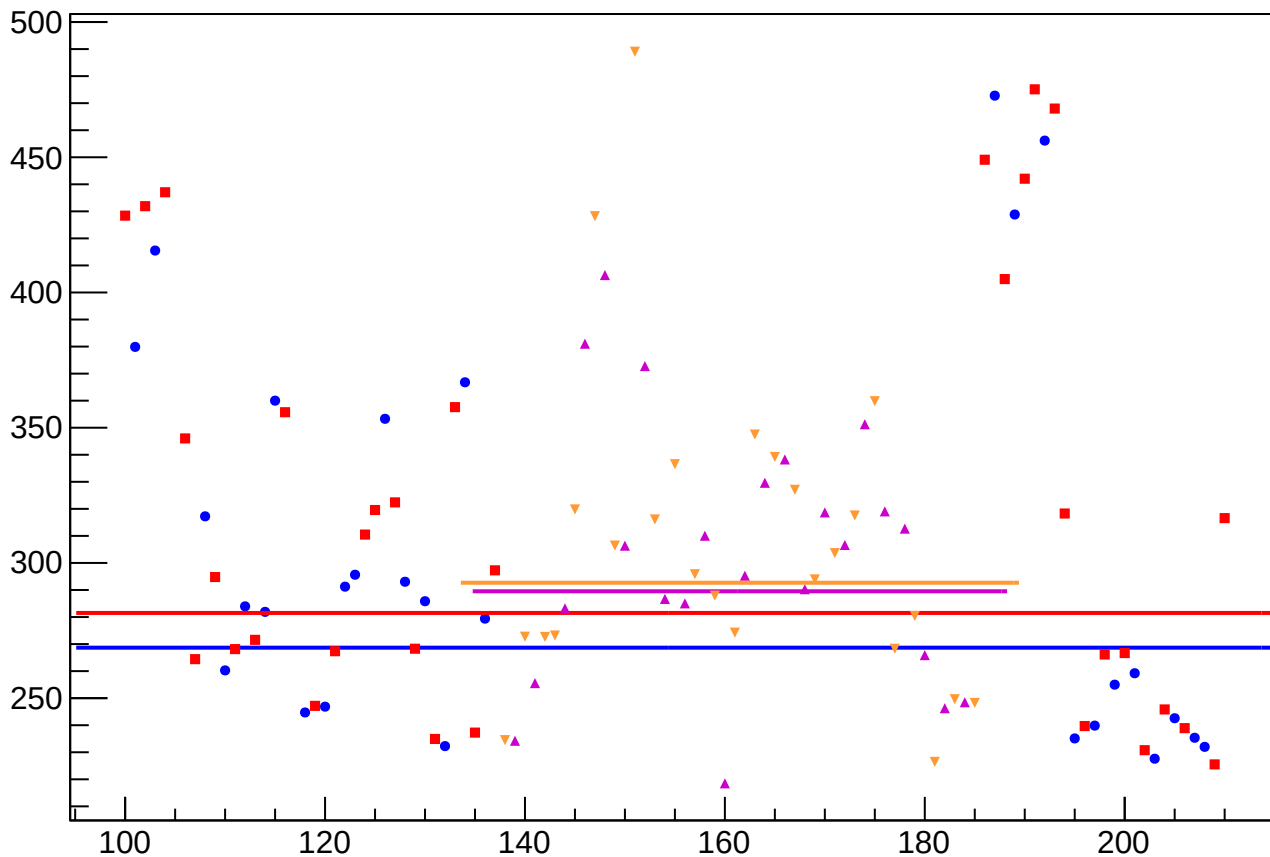
Right: -21.670 ± 51.383 $\chi^2/\text{NDF}: 9765.5/60$

In: 59.089 ± 50.991 $\chi^2/\text{NDF}: 5067.9/50$

Out: 445.505 ± 50.051 $\chi^2/\text{NDF}: 6404.2/57$

All: 255.890 ± 35.719 $\chi^2/\text{NDF}: 11501.4/108$

asym_bpm0r03WS_rms vs Slug, Sign Corrected



Right In: 268.672 $\pm$ 0.052 χ^2/NDF : 1080317.0/27

Left Out: 292.686 $\pm$ 0.049 χ^2/NDF : 925193.6/24

Right Out: 281.515 $\pm$ 0.051 χ^2/NDF : 1446219.1/32

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

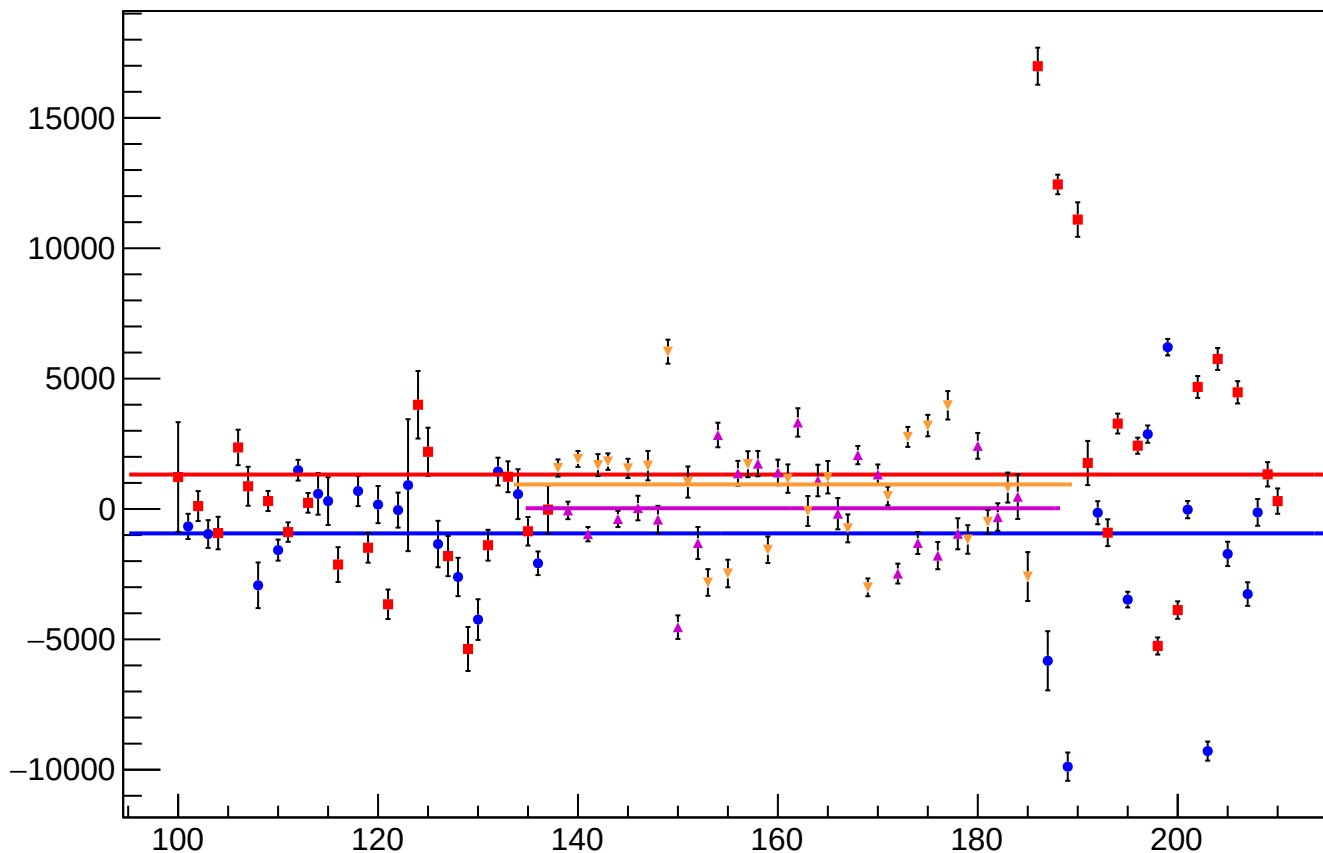
Right: 275.208 $\pm$ 0.036 χ^2/NDF : 2557764.7/60

In: 279.438 $\pm$ 0.036 χ^2/NDF : 1941727.6/50

Out: 287.292 $\pm$ 0.035 χ^2/NDF : 2396289.9/57

All: 283.438 $\pm$ 0.025 χ^2/NDF : 4362179.6/108

asym_bpm0r05WS_mean vs Slug, Sign Corrected



Right In: -936.125 $\pm$ 93.175 χ^2 /NDF: 1680.3/27

Left Out: 941.598 $\pm$ 89.119 χ^2 /NDF: 544.6/24

Right Out: 1319.816 $\pm$ 87.081 χ^2 /NDF: 2838.2/32

Left In: 27.763 $\pm$ 92.331 χ^2 /NDF: 362.5/22

Left: 500.853 $\pm$ 64.122 χ^2 /NDF: 957.8/47

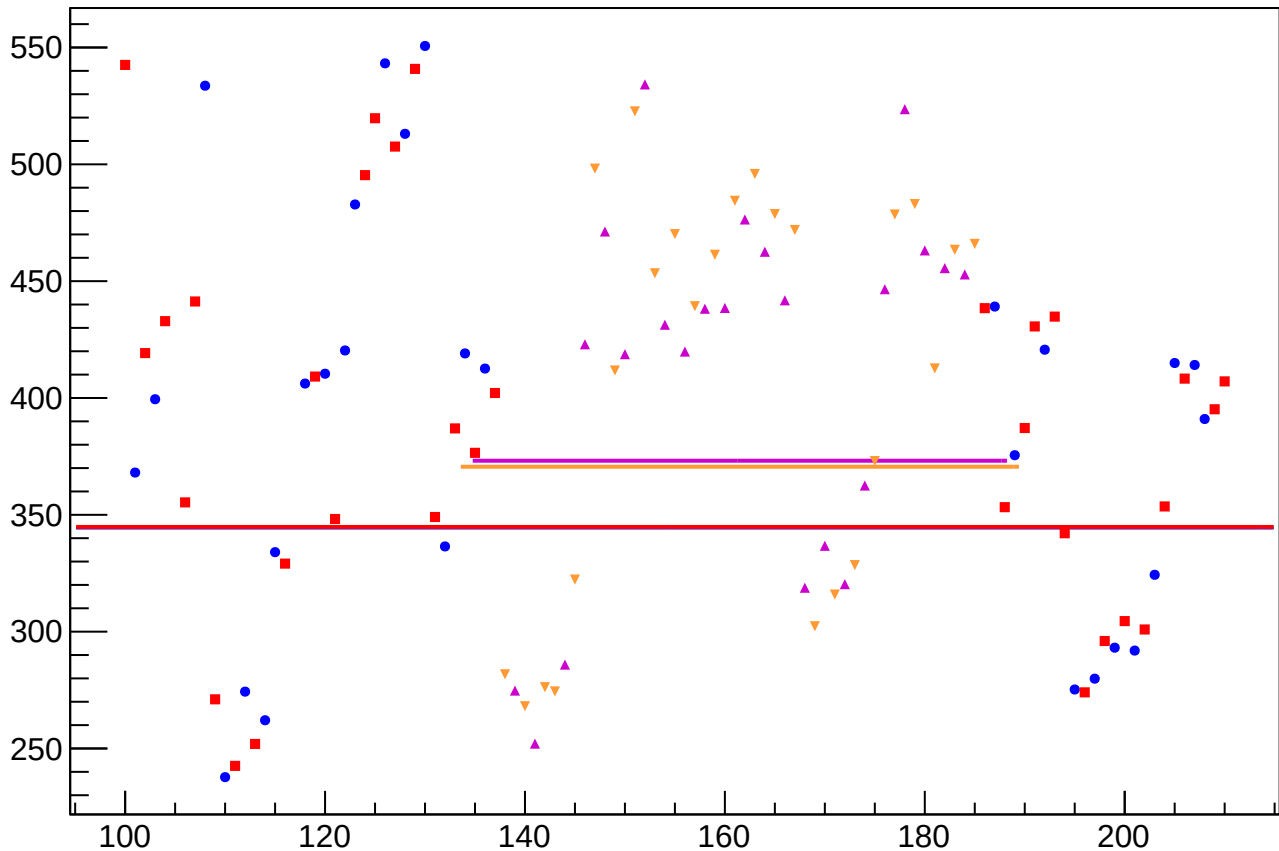
Right: 268.033 $\pm$ 63.621 χ^2 /NDF: 4831.5/60

In: -449.796 $\pm$ 65.584 χ^2 /NDF: 2096.9/50

Out: 1135.082 $\pm$ 62.283 χ^2 /NDF: 3392.0/57

All: 383.529 $\pm$ 45.163 χ^2 /NDF: 5795.9/108

asym_bpm0r05WS_rms vs Slug, Sign Corrected



Right In: 344.575 ± 0.066 $\chi^2/\text{NDF}: 1297712.5/27$

Left Out: 370.580 ± 0.063 $\chi^2/\text{NDF}: 1878118.9/24$

Right Out: 344.810 ± 0.062 $\chi^2/\text{NDF}: 1243536.9/32$

Left In: 373.161 ± 0.065 $\chi^2/\text{NDF}: 1636244.2/22$

Left: 371.824 ± 0.045 $\chi^2/\text{NDF}: 3515172.3/47$

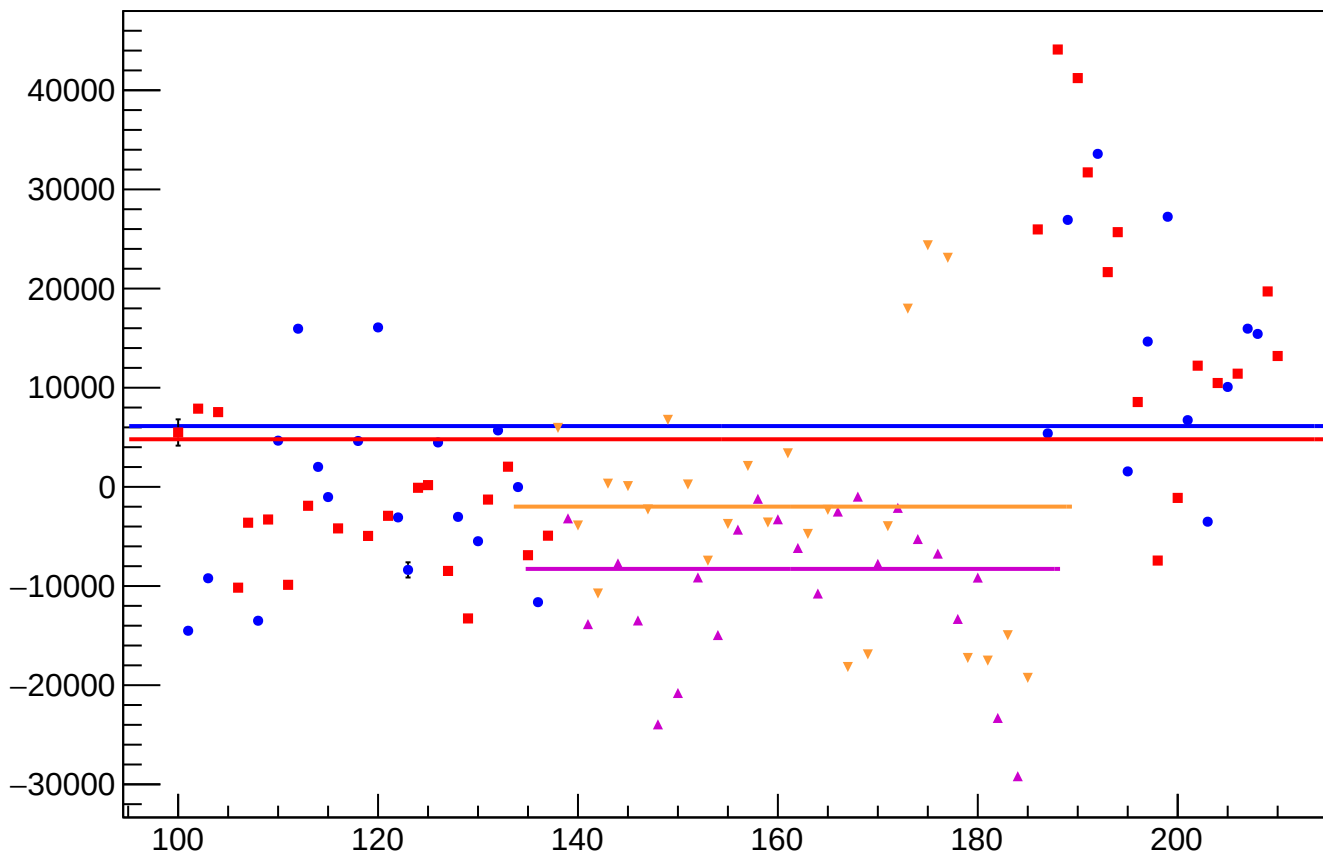
Right: 344.700 ± 0.045 $\chi^2/\text{NDF}: 2541256.2/60$

In: 358.998 ± 0.046 $\chi^2/\text{NDF}: 3028935.9/50$

Out: 357.396 ± 0.044 $\chi^2/\text{NDF}: 3207206.7/57$

All: 358.156 ± 0.032 $\chi^2/\text{NDF}: 6236769.7/108$

asym_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 6131.702+/-42.020

χ^2/NDF : 90632.2/27

Left Out: -1991.788+/-42.427

χ^2/NDF : 63766.6/24

Right Out: 4800.731+/-39.257

χ^2/NDF : 140649.7/32

Left In: -8273.228+/-44.301

χ^2/NDF : 22870.2/22

Left: -4996.810+/-30.641

χ^2/NDF : 97123.2/47

Right: 5421.019+/-28.686

χ^2/NDF : 231817.6/60

In: -690.312+/-30.487

χ^2/NDF : 169159.0/50

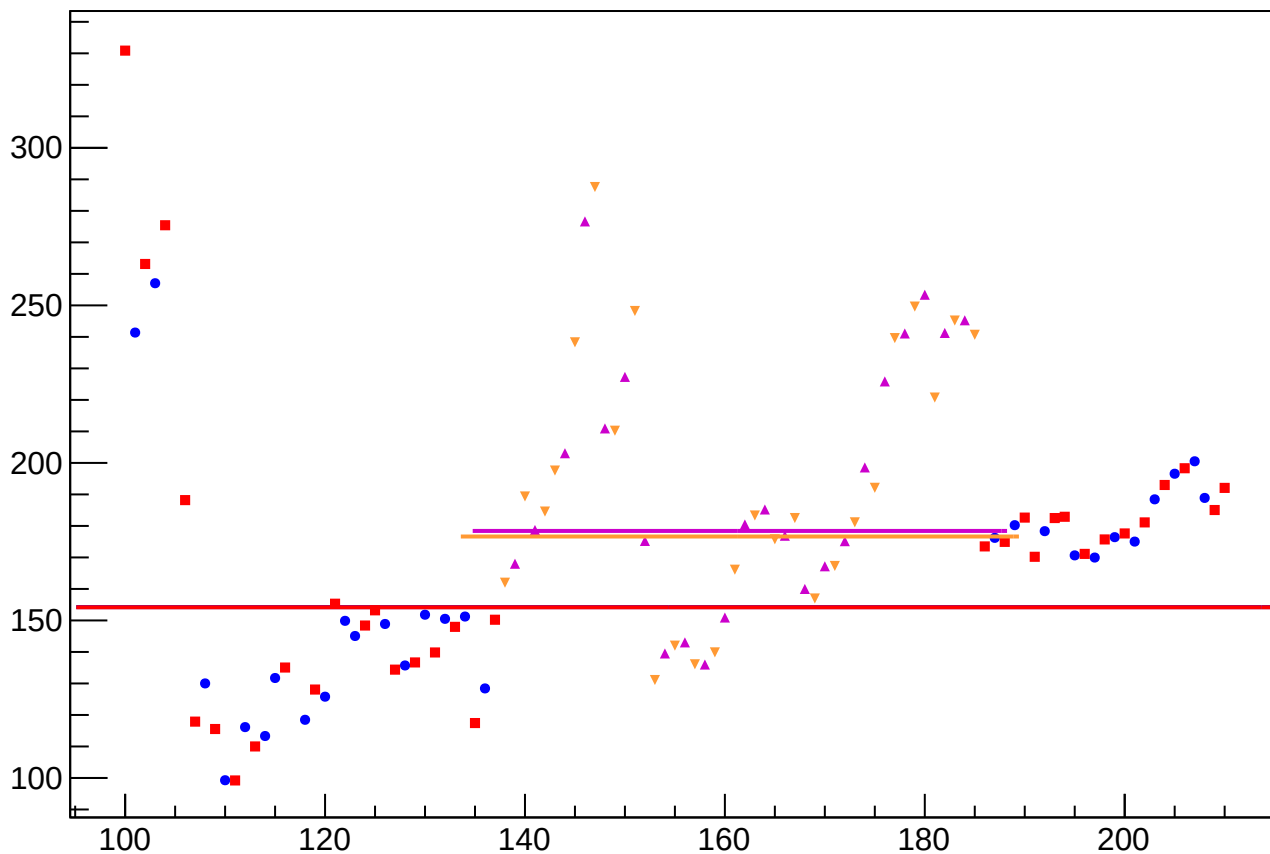
Out: 1667.696+/-28.814

χ^2/NDF : 218225.6/57

All: 555.158+/-20.941

χ^2/NDF : 390544.2/108

asym_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 154.232 $\pm$ 0.030 χ^2 /NDF: 1290550.5/27

Left Out: 176.641 $\pm$ 0.030 χ^2 /NDF:1551048.8/24

Right Out: 154.176 $\pm$ 0.028 χ^2 /NDF: 1631280.8/32

Left In: 178.413 $\pm$ 0.031 χ^2 /NDF:1293736.2/22

Left: 177.489 $\pm$ 0.022 χ^2 /NDF: 2846455.0/47

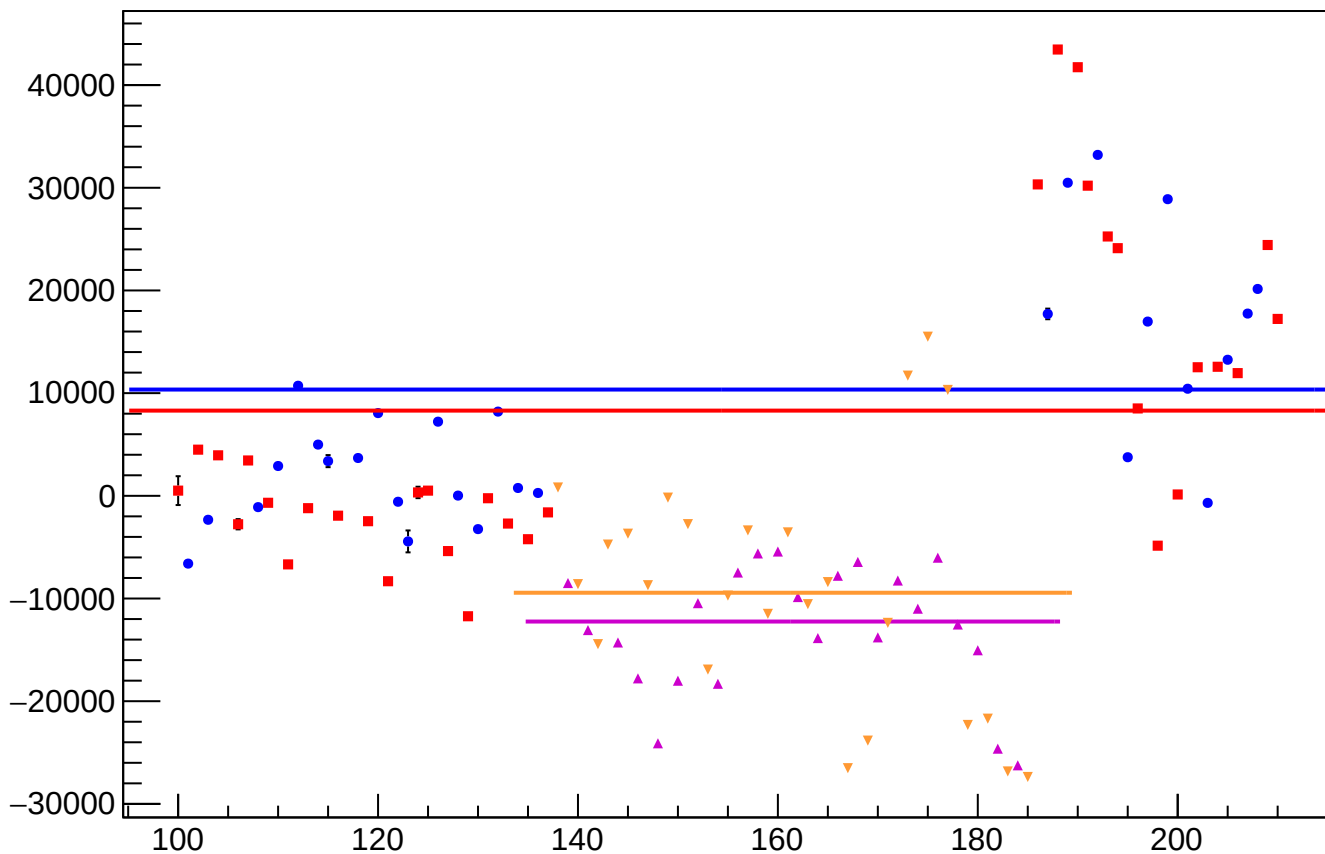
Right: 154.202 $\pm$ 0.020 χ^2 /NDF: 2921833.2/60

In: 165.684 $\pm$ 0.022 χ^2 /NDF:2897967.2/50

Out: 164.538 $\pm$ 0.020 χ^2 /NDF:3484435.0/57

All: 165.078 $\pm$ 0.015 χ^2 /NDF: 6383895.8/108

asym_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 10349.784 $\pm$ 47.160

χ^2/NDF : 52244.8/27

Left: -10889.638 $\pm$ 31.621

χ^2/NDF : 80800.7/47

Left Out: -9437.408 $\pm$ 45.534

χ^2/NDF : 62220.4/24

Right: 9245.925 $\pm$ 32.044

χ^2/NDF : 165616.9/60

Right Out: 8299.174 $\pm$ 43.675

χ^2/NDF : 112354.3/32

In: -1742.540 $\pm$ 32.150

χ^2/NDF : 191696.0/50

Out: -199.576 $\pm$ 31.520

χ^2/NDF : 253599.3/57

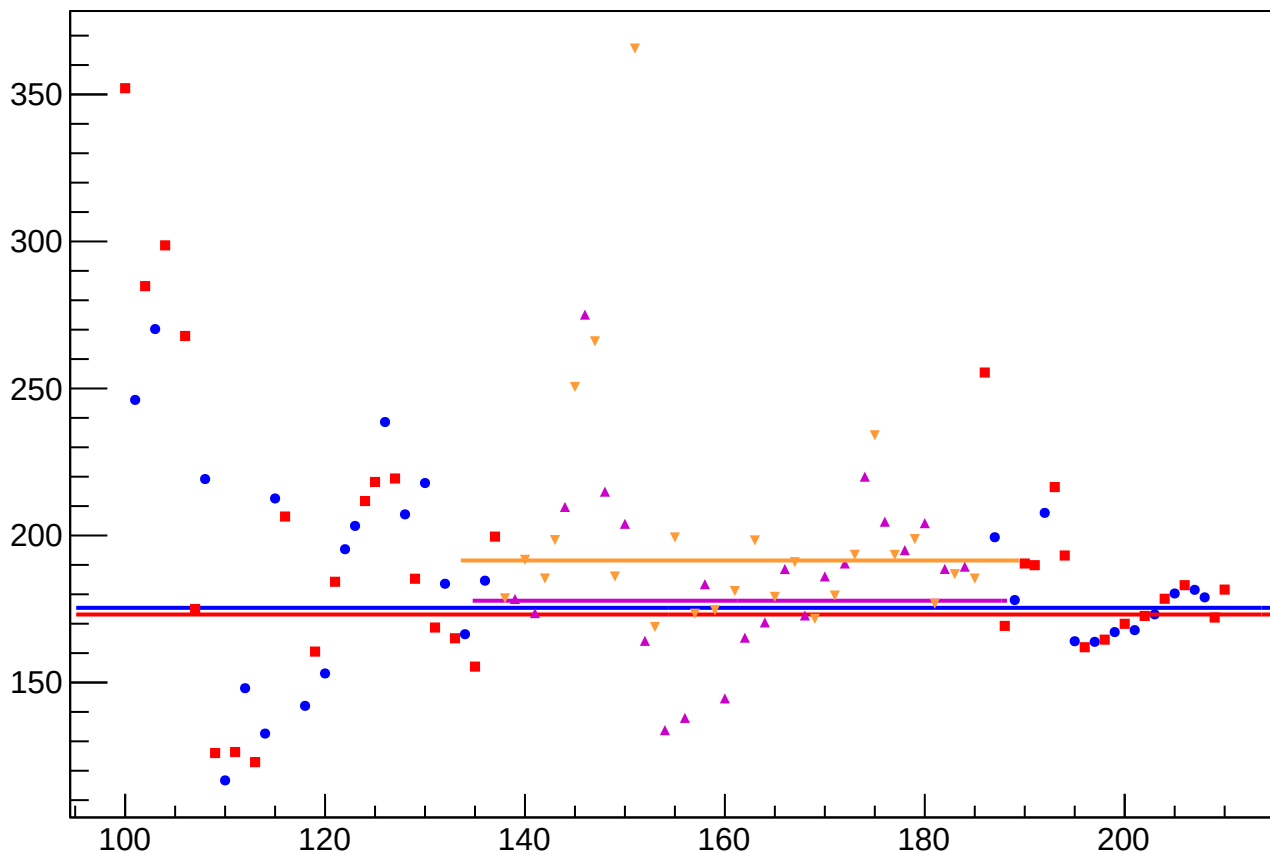
Left In: -12242.226 $\pm$ 43.944

χ^2/NDF : 16615.8/22

All: -955.783 $\pm$ 22.507

χ^2/NDF : 446469.7/10

asym_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 175.401 ± 0.033 $\chi^2/\text{NDF}: 762306.7/27$

Left Out: 191.507 ± 0.032 $\chi^2/\text{NDF}: 727251.6/24$

Right Out: 173.132 ± 0.031 $\chi^2/\text{NDF}: 1134860.5/32$

Left In: 177.821 ± 0.031 $\chi^2/\text{NDF}: 862494.4/22$

Left: 184.421 ± 0.022 $\chi^2/\text{NDF}: 1683284.8/47$

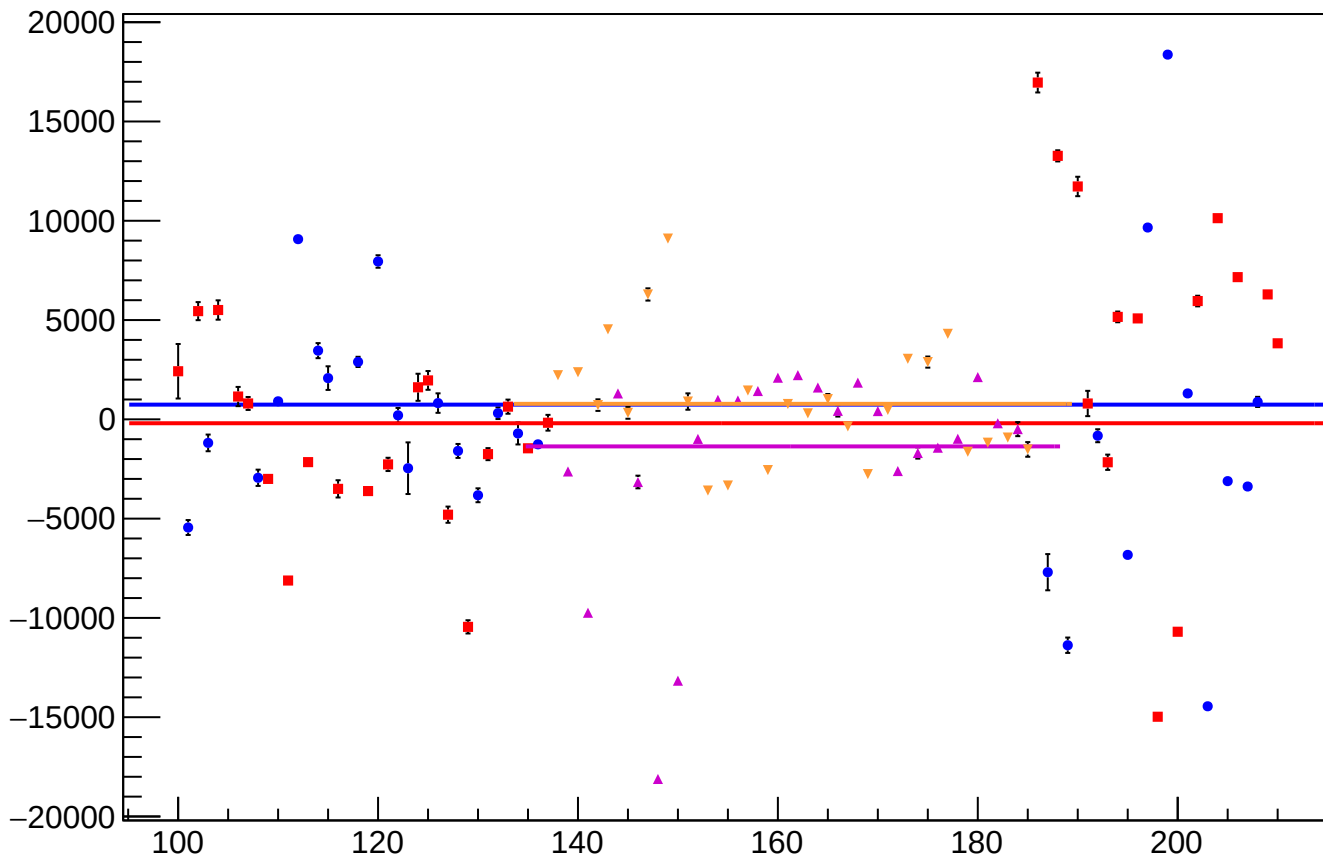
Right: 174.179 ± 0.023 $\chi^2/\text{NDF}: 1899659.7/60$

In: 176.697 ± 0.023 $\chi^2/\text{NDF}: 1627621.1/50$

Out: 181.936 ± 0.022 $\chi^2/\text{NDF}: 2031742.8/57$

All: 179.368 ± 0.016 $\chi^2/\text{NDF}: 3686453.5/108$

asym_bpm0i05WS_mean vs Slug, Sign Corrected



Right In: 740.666 ± 52.968 $\chi^2/\text{NDF}: 20338.2/27$

Left Out: 779.983 ± 47.457 $\chi^2/\text{NDF}: 4260.8/24$

Right Out: -196.651 ± 49.179 $\chi^2/\text{NDF}: 21662.5/32$

Left In: -1363.043 ± 45.807 $\chi^2/\text{NDF}: 11632.9/22$

Left: -329.448 ± 32.958 $\chi^2/\text{NDF}: 16949.3/47$

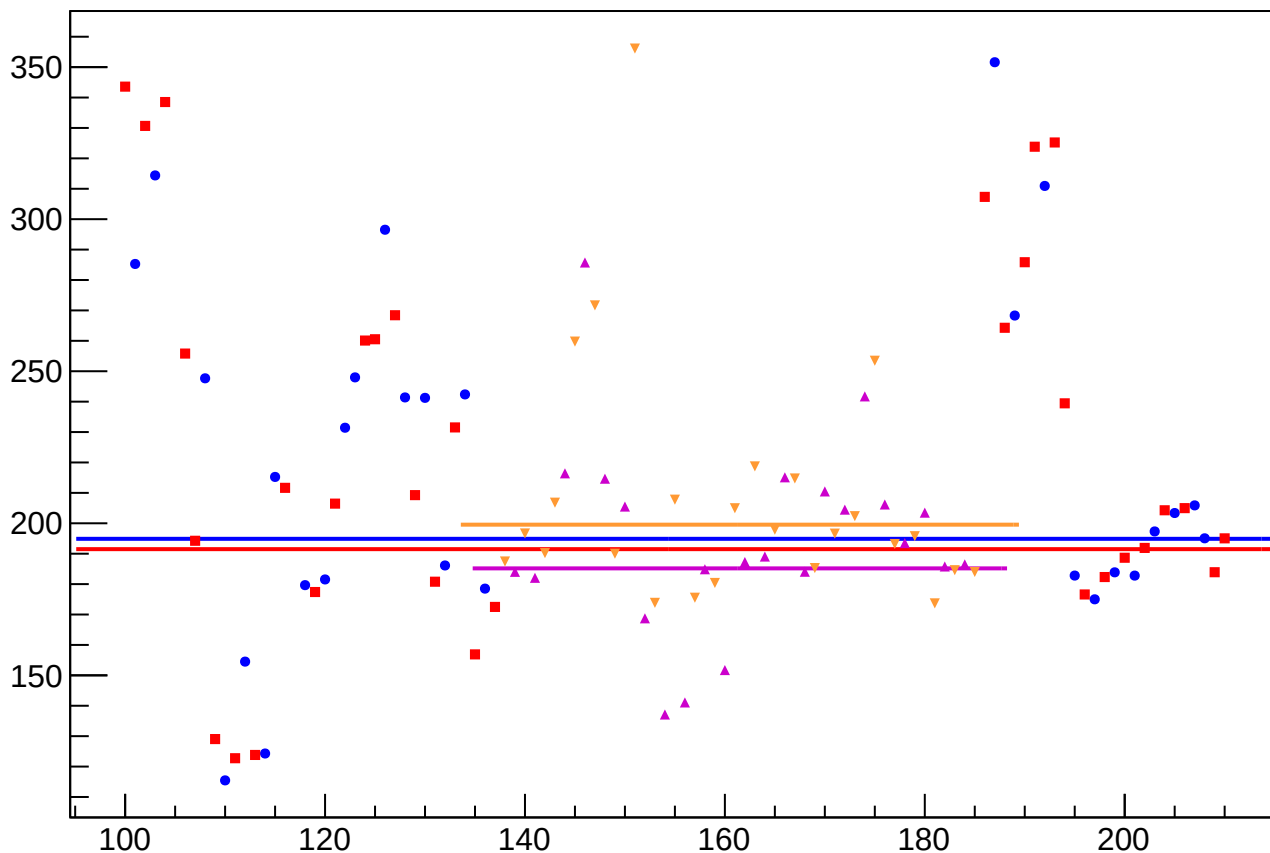
Right: 237.288 ± 36.040 $\chi^2/\text{NDF}: 42168.9/60$

In: -462.910 ± 34.648 $\chi^2/\text{NDF}: 32873.5/50$

Out: 309.059 ± 34.150 $\chi^2/\text{NDF}: 26127.5/57$

All: -71.341 ± 24.322 $\chi^2/\text{NDF}: 59252.8/108$

asym_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 194.893 $\pm$ 0.037

χ^2/NDF : 1415382.7/27

Left: 192.104 $\pm$ 0.023

χ^2/NDF : 1707122.0/47

Left Out: 199.547 $\pm$ 0.034

χ^2/NDF : 729356.3/24

Right: 193.068 $\pm$ 0.025

χ^2/NDF : 3565002.9/60

Right Out: 191.495 $\pm$ 0.035

χ^2/NDF : 2145201.1/32

In: 189.330 $\pm$ 0.024

χ^2/NDF : 2336684.5/50

Out: 195.664 $\pm$ 0.024

χ^2/NDF : 2902316.3/57

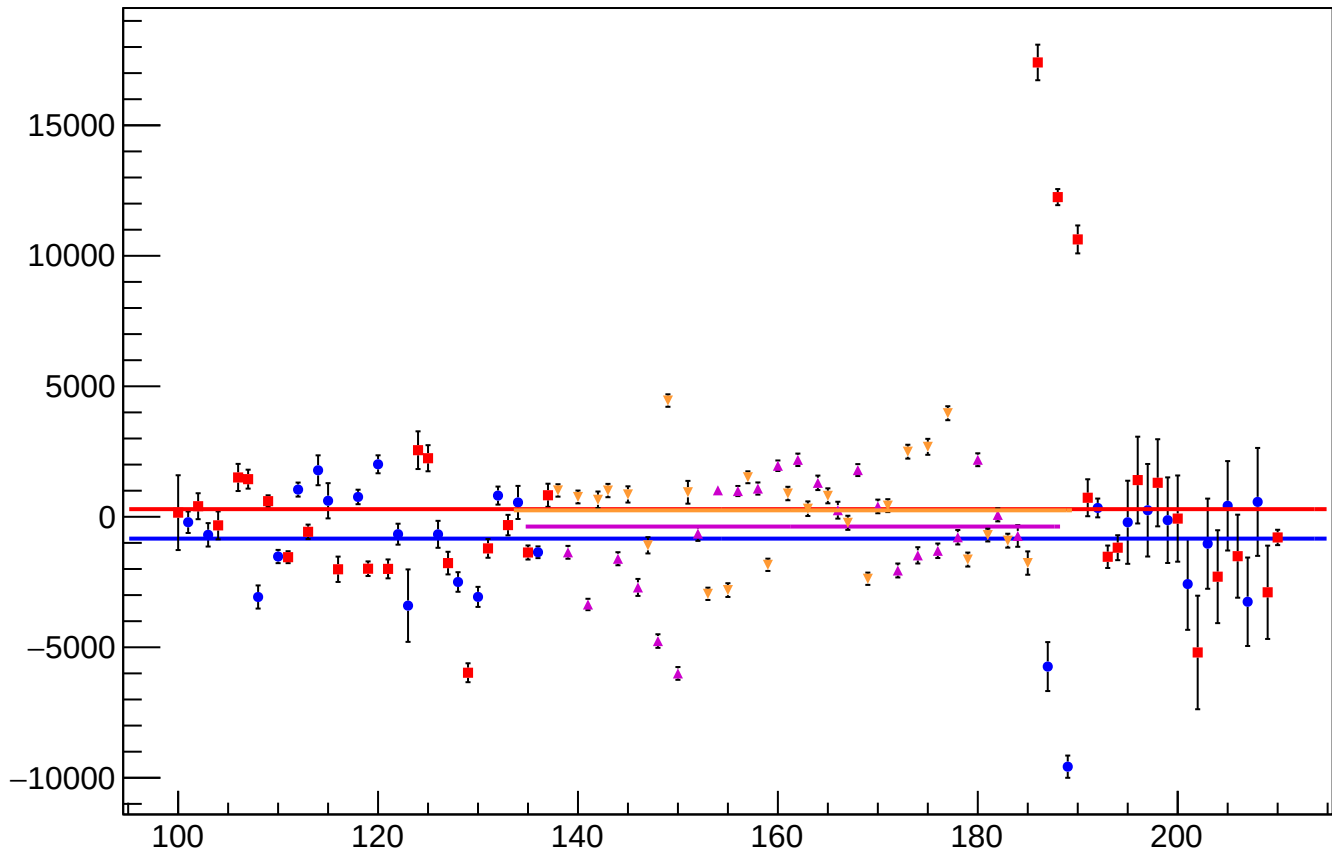
Left In: 185.171 $\pm$ 0.032

χ^2/NDF : 882752.2/22

All: 192.543 $\pm$ 0.017

χ^2/NDF : 5272903.9/108

asym_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -835.946 $\pm$ 83.372 χ^2/NDF : 764.2/27

Left Out: 247.844 $\pm$ 53.555 χ^2/NDF :1355.1/24

Right Out: 293.017 $\pm$ 72.609 χ^2/NDF : 3190.5/32

Left In: -374.122 $\pm$ 52.049 χ^2/NDF :1801.0/22

Left: -72.006 $\pm$ 37.325 χ^2/NDF : 3225.5/47

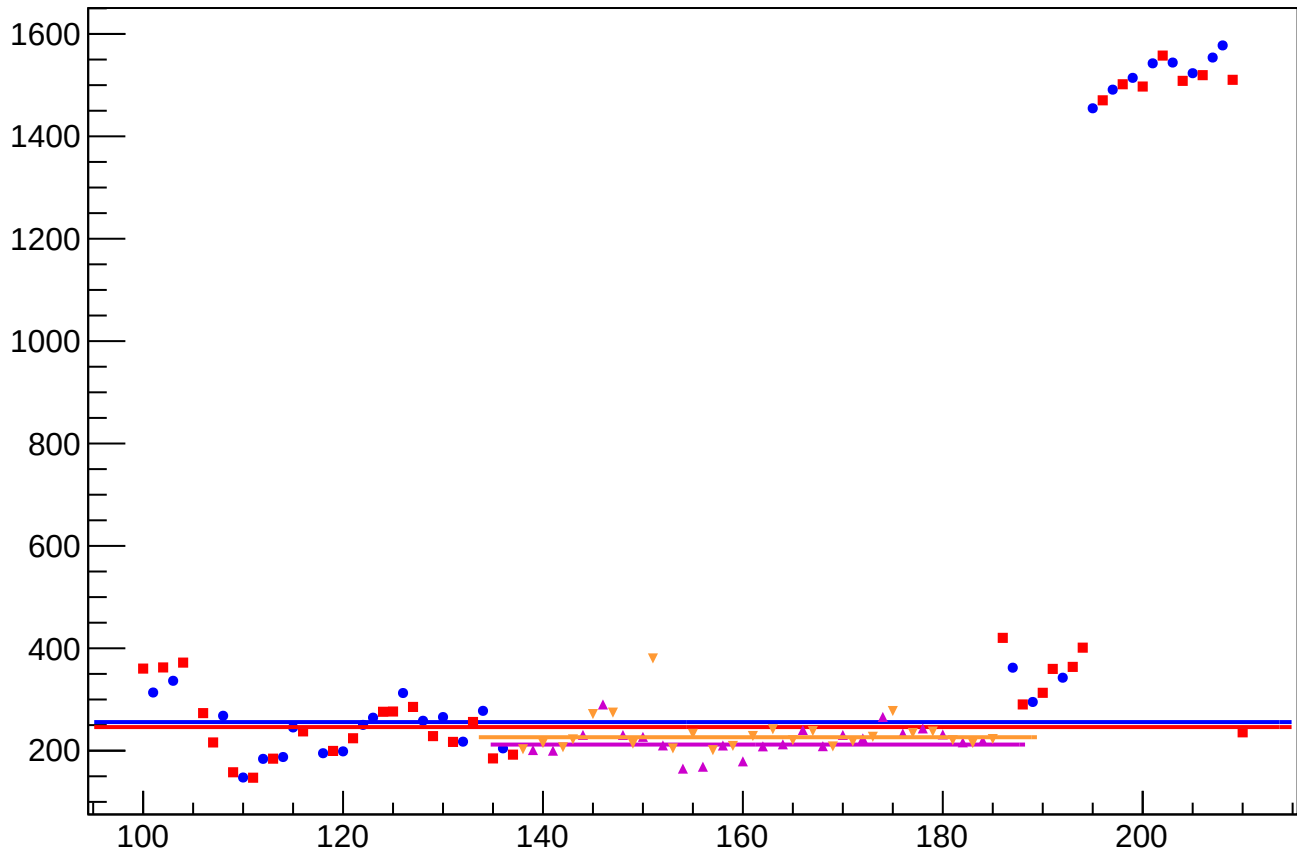
Right: -193.928 $\pm$ 54.755 χ^2/NDF : 4059.0/60

In: -503.638 $\pm$ 44.151 χ^2/NDF :2587.3/50

Out: 263.760 $\pm$ 43.099 χ^2/NDF :4545.9/57

All: -110.687 $\pm$ 30.841 χ^2/NDF : 7287.9/108

asym_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 255.878+/-0.059 χ^2/NDF : 9660935.2/27

Left Out: 226.322+/-0.038 χ^2/NDF : 521041.8/24

Right Out: 246.105+/-0.051 χ^2/NDF : 9273046.4/32

Left In: 211.970+/-0.037 χ^2/NDF : 584344.5/22

Left: 218.941+/-0.026 χ^2/NDF : 1179246.7/47

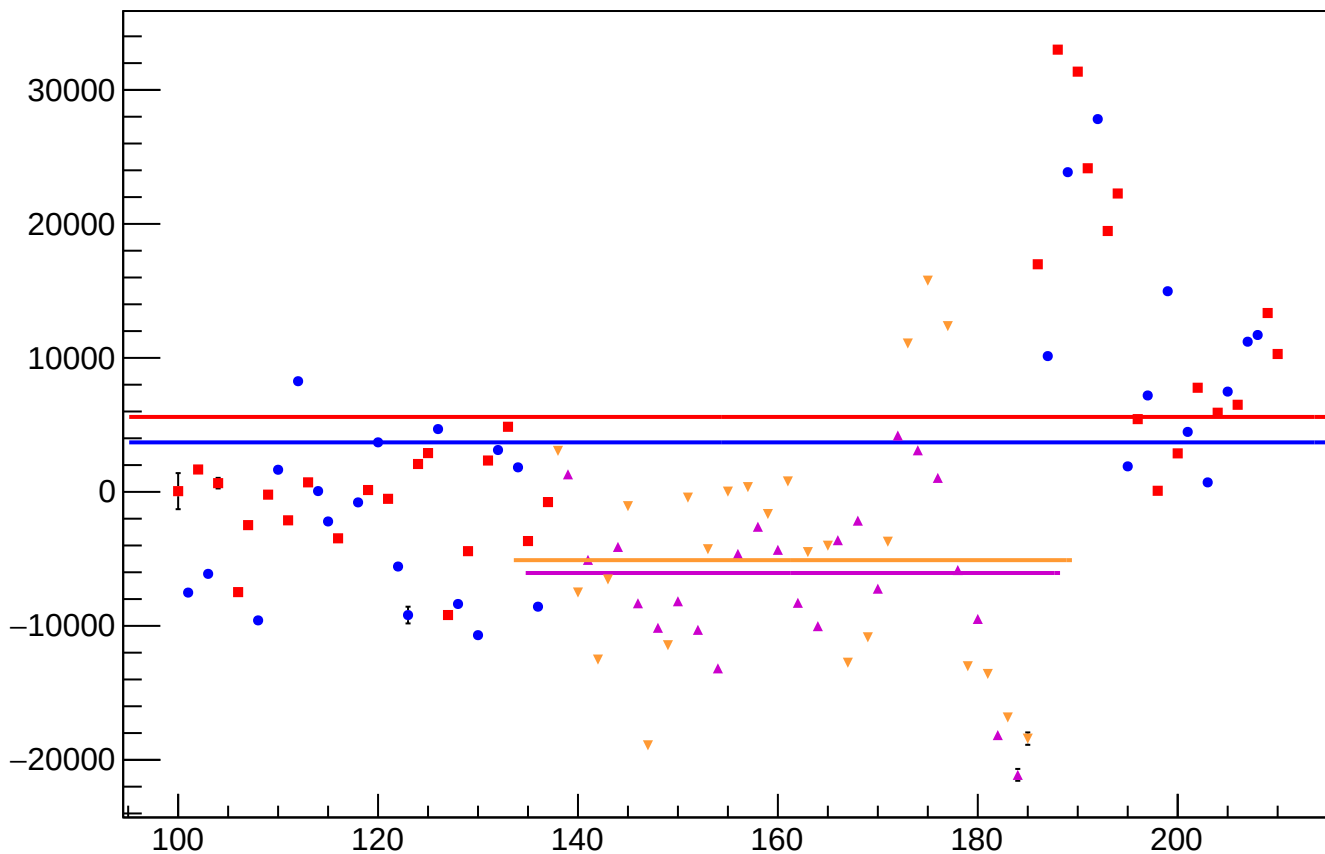
Right: 250.320+/-0.039 χ^2/NDF : 18949610.1/60

In: 224.284+/-0.031 χ^2/NDF : 10644432.1/50

Out: 233.292+/-0.030 χ^2/NDF : 9890248.6/57

All: 228.897+/-0.022 χ^2/NDF : 20577314.1/10

asym_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: 3694.951 $\pm$ 35.717

χ^2/NDF : 77238.0/27

Left: -5556.386 $\pm$ 24.277

χ^2/NDF : 72374.6/47

Left Out: -5095.305 $\pm$ 33.703

χ^2/NDF : 54395.4/24

Right: 4715.857 $\pm$ 24.288

χ^2/NDF : 182219.4/60

Right Out: 5593.956 $\pm$ 33.125

χ^2/NDF : 103461.7/32

In: -1278.447 $\pm$ 24.998

χ^2/NDF : 132832.8/50

Out: 341.831 $\pm$ 23.625

χ^2/NDF : 209021.7/57

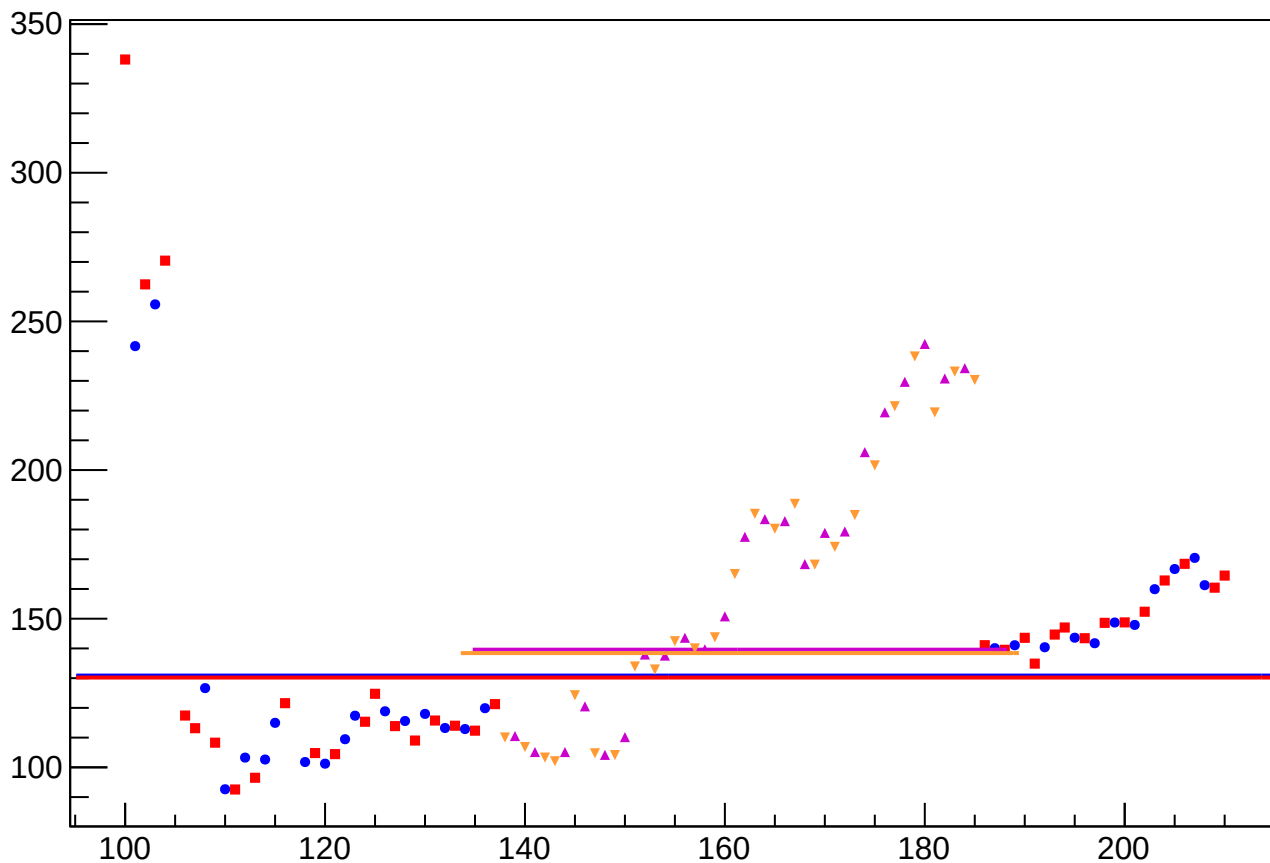
Left In: -6053.569 $\pm$ 34.998

χ^2/NDF : 17590.3/22

All: -422.593 $\pm$ 17.170

χ^2/NDF : 344073.6/10

asym_bpm1i02WS_rms vs Slug, Sign Corrected



Right In: 130.866+/-0.025 χ^2/NDF : 1286966.5/27

Left Out: 138.436+/-0.024 χ^2/NDF : 2549435.8/24

Right Out: 130.210+/-0.023 χ^2/NDF : 1480201.6/32

Left In: 139.578+/-0.025 χ^2/NDF : 2413658.9/22

Left: 138.985+/-0.017 χ^2/NDF : 4964199.7/47

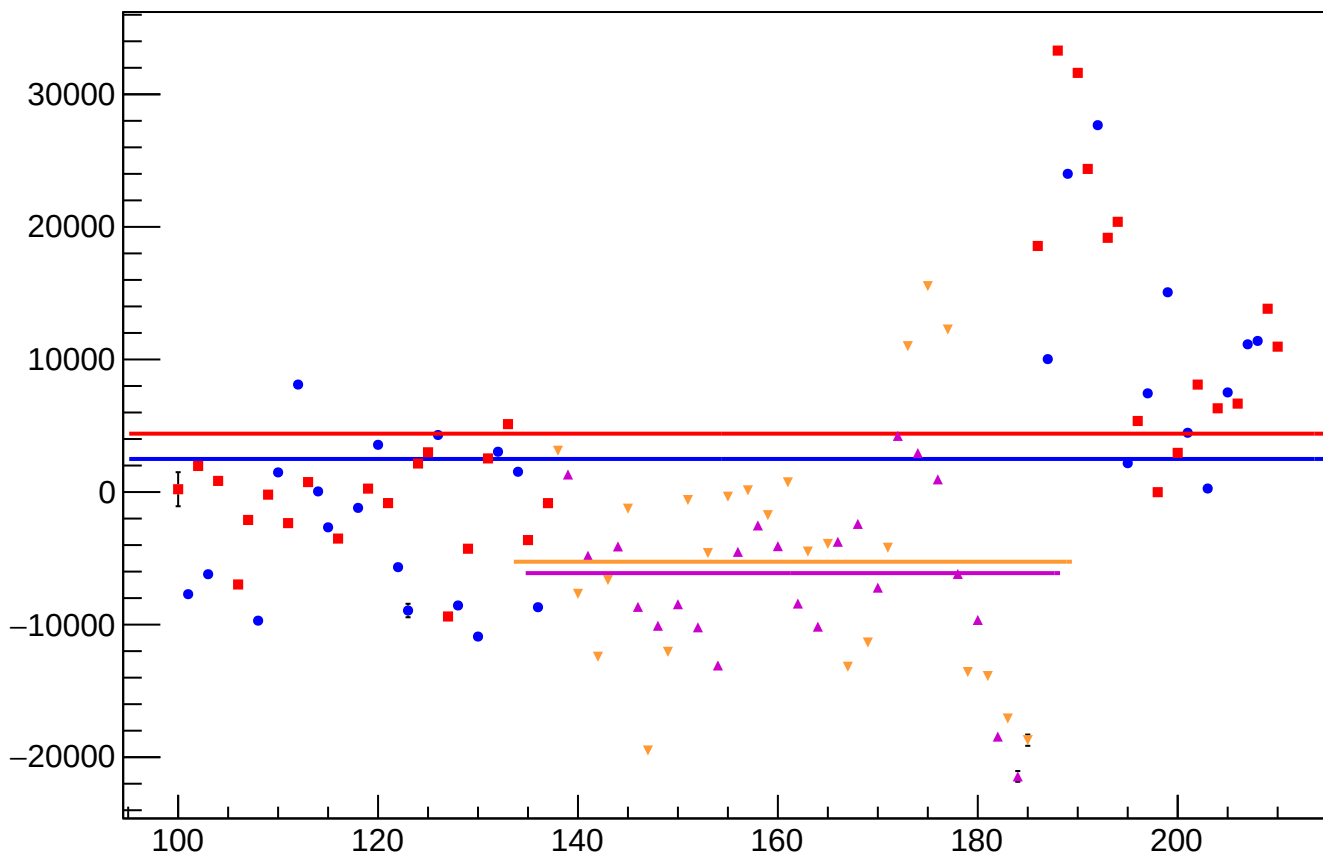
Right: 130.513+/-0.017 χ^2/NDF : 2767530.3/60

In: 135.310+/-0.018 χ^2/NDF : 3761330.8/50

Out: 134.252+/-0.017 χ^2/NDF : 4090231.6/57

All: 134.751+/-0.012 χ^2/NDF : 7853457.0/108

asym_bpm1i04WS_mean vs Slug, Sign Corrected



Right In: 2495.779+/-31.900

χ^2/NDF : 86438.2/27

Left Out: -5255.652+/-30.622

χ^2/NDF : 64324.6/24

Right Out: 4403.588+/-29.824

χ^2/NDF : 112762.8/32

Left In: -6114.901+/-32.126

χ^2/NDF : 21260.9/22

Left: -5664.697+/-22.166

χ^2/NDF : 85960.3/47

Right: 3513.794+/-21.786

χ^2/NDF : 201109.6/60

In: -1779.248+/-22.636

χ^2/NDF : 143872.4/50

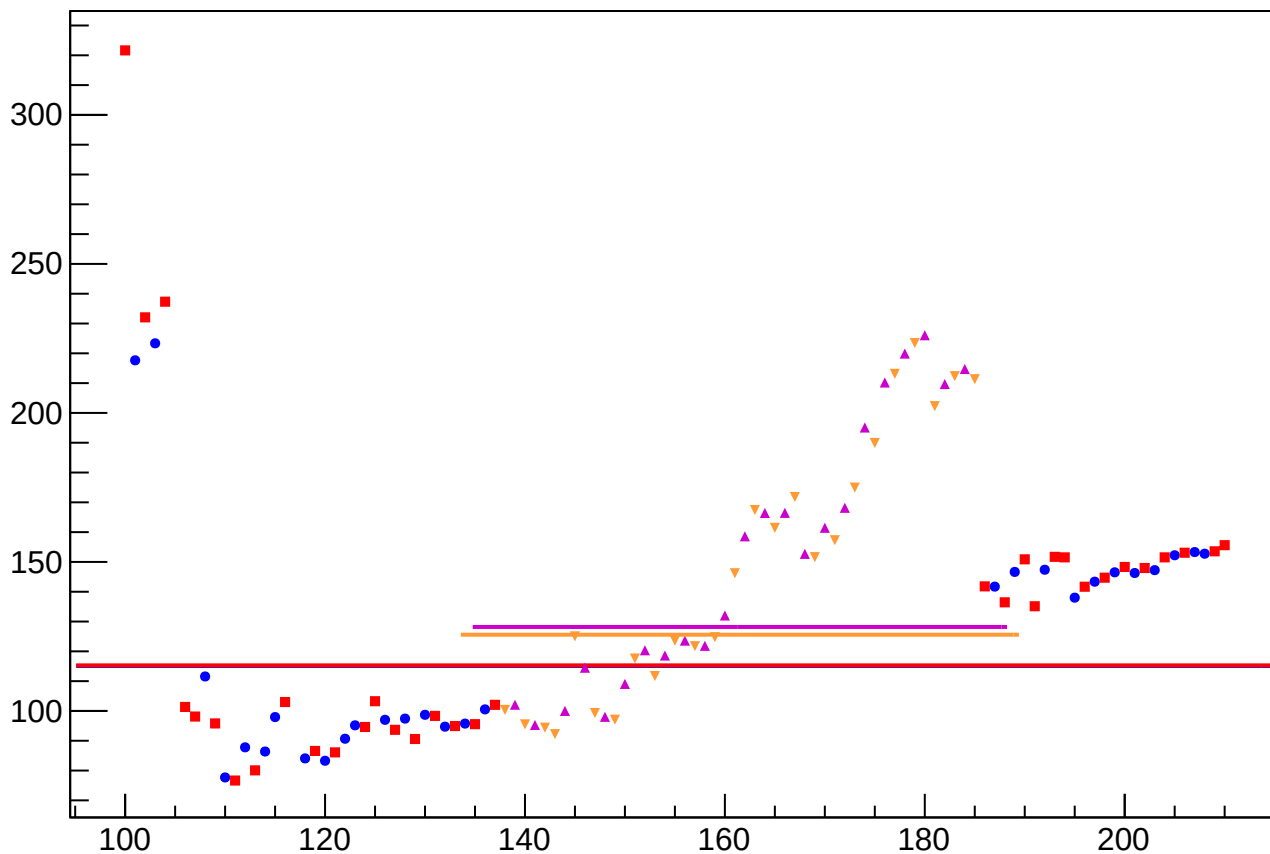
Out: -298.489+/-21.365

χ^2/NDF : 228150.9/57

All: -996.133+/-15.537

χ^2/NDF : 374286.5/10

asym_bpm1i04WS_rms vs Slug, Sign Corrected



Right In: 115.110 $\pm$ 0.023 χ^2 /NDF: 1969918.7/27

Left Out: 125.577 $\pm$ 0.022 χ^2 /NDF: 2595752.6/24

Right Out: 115.284 $\pm$ 0.021 χ^2 /NDF: 2350414.4/32

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

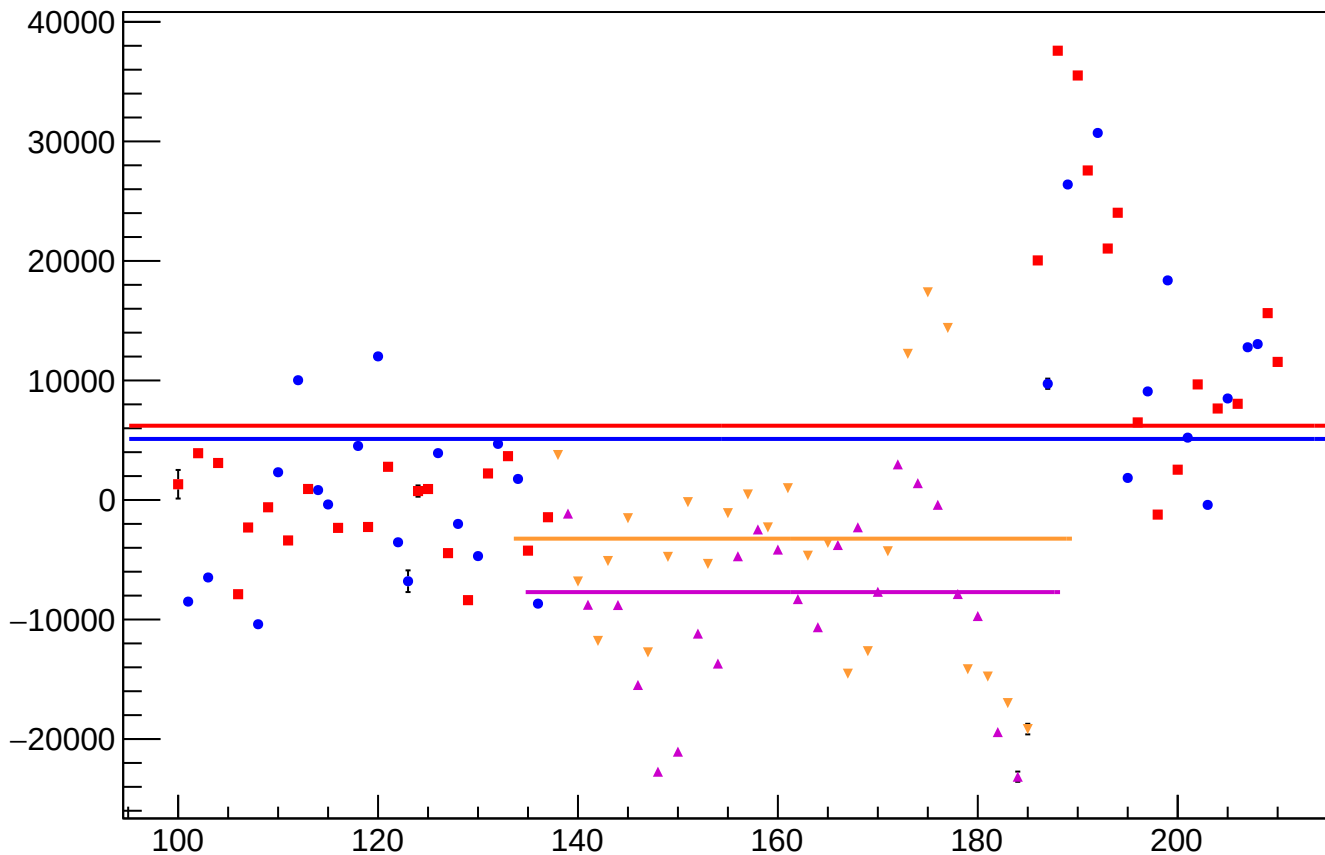
Right: 115.203 $\pm$ 0.015 χ^2 /NDF: 4320364.8/60

In: 121.601 $\pm$ 0.016 χ^2 /NDF: 4469664.4/50

Out: 120.295 $\pm$ 0.015 χ^2 /NDF: 5062137.0/57

All: 120.910 $\pm$ 0.011 χ^2 /NDF: 9535323.3/108

asym_bpm1i06WS_mean vs Slug, Sign Corrected



Right In: 5107.451+/-42.304 χ^2/NDF : 60976.7/27

Left Out: -3234.922+/-40.583 χ^2/NDF : 36739.9/24

Right Out: 6213.936+/-39.385 χ^2/NDF : 92789.1/32

Left In: -7707.068+/-42.990 χ^2/NDF : 21268.3/22

Left: -5342.284+/-29.511 χ^2/NDF : 63730.6/47

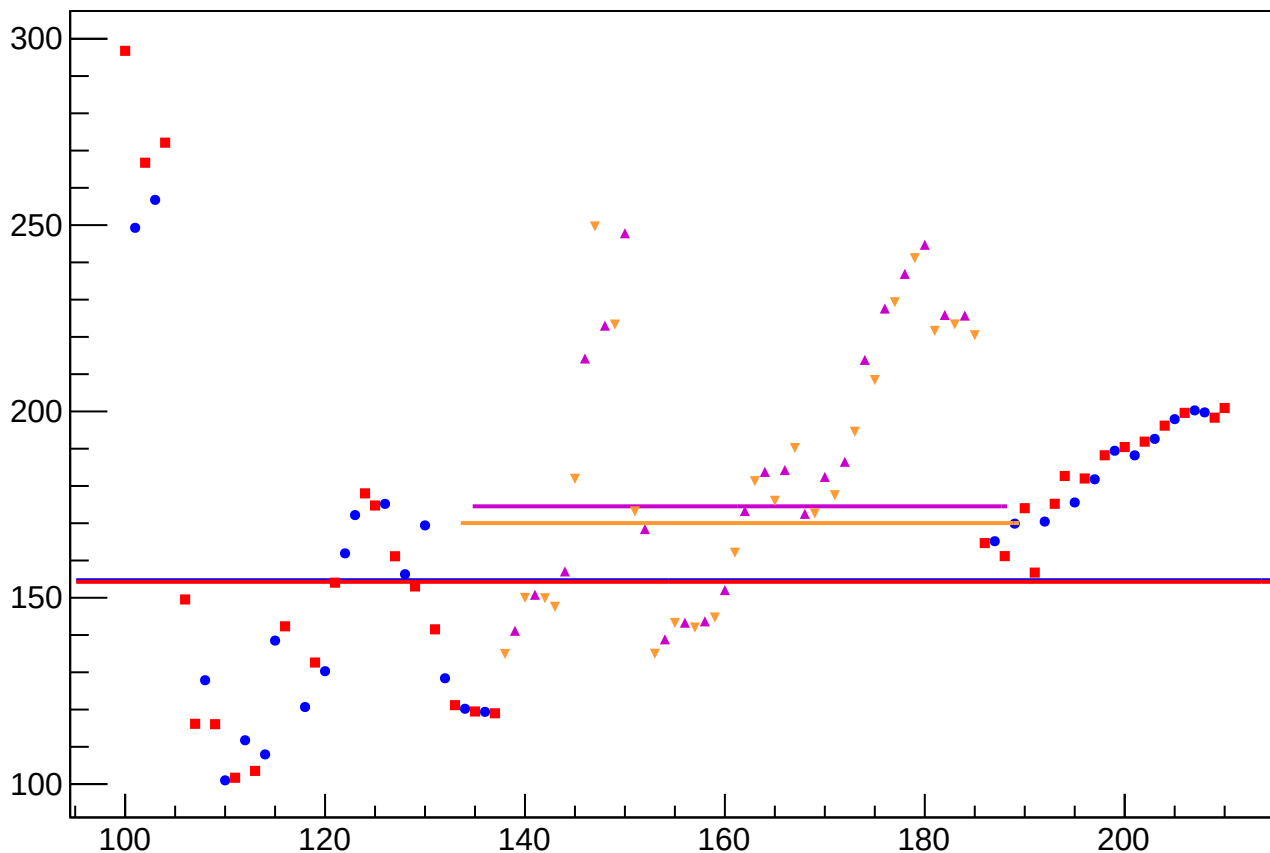
Right: 5700.169+/-28.826 χ^2/NDF : 154132.3/60

In: -1196.698+/-30.153 χ^2/NDF : 127386.4/50

Out: 1630.933+/-28.263 χ^2/NDF : 157445.3/57

All: 308.477+/-20.621 χ^2/NDF : 289512.8/108

asym_bpm1i06WS_rms vs Slug, Sign Corrected



Right In: 154.707 $\pm$ 0.030 χ^2 /NDF: 1536888.3/27

Left Out: 170.050 $\pm$ 0.029 χ^2 /NDF:1240866.9/24

Right Out: 154.279 $\pm$ 0.028 χ^2 /NDF: 1794726.7/32

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

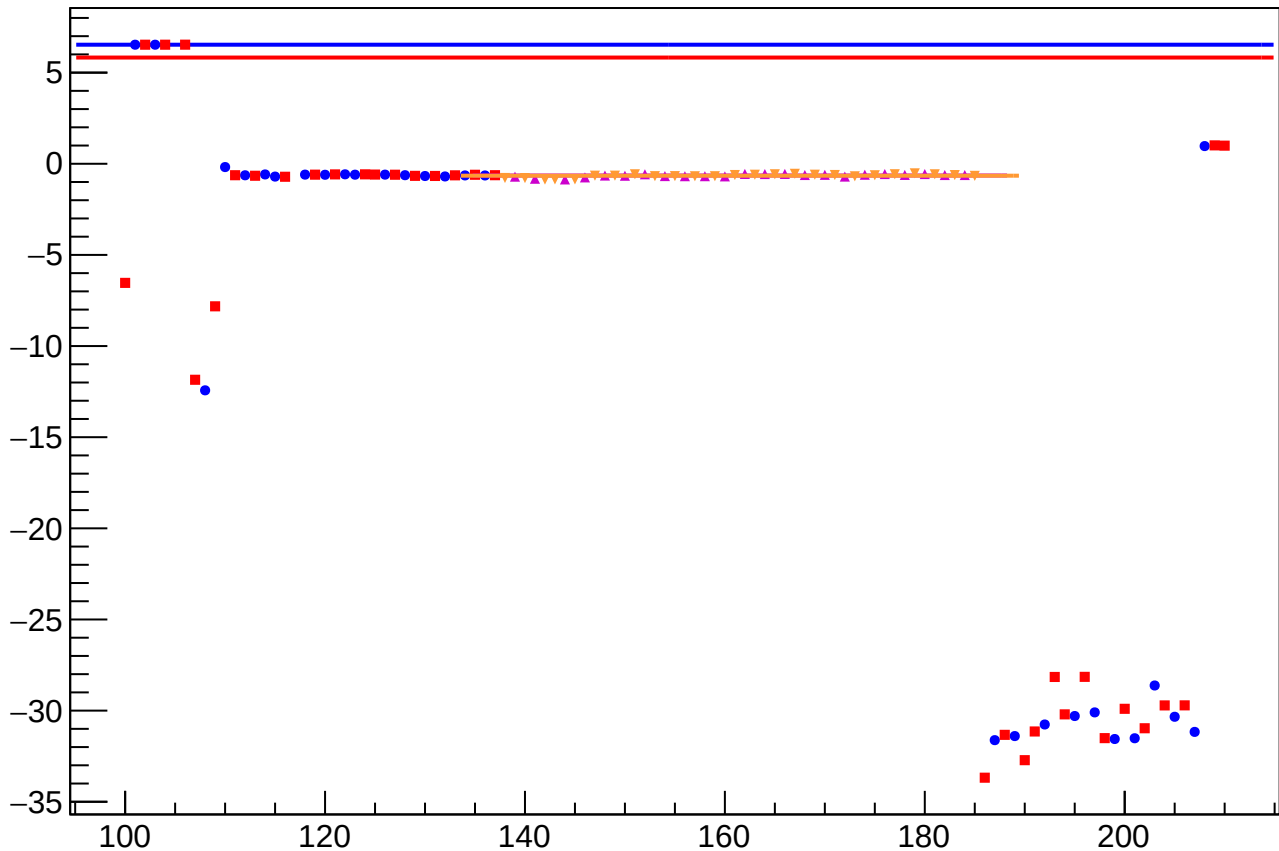
Right: 154.478 $\pm$ 0.020 χ^2 /NDF: 3331725.1/60

In: 164.464 $\pm$ 0.021 χ^2 /NDF:2963192.1/50

Out: 161.928 $\pm$ 0.020 χ^2 /NDF:3191136.1/57

All: 163.114 $\pm$ 0.015 χ^2 /NDF: 6161857.1/108

yield_cav4bX_mean vs Slug, Sign Corrected



Right In: 6.532+/-0.000 χ^2/NDF : 129910336814.7/27

Left Out: -0.654+/-0.000 χ^2/NDF : 179109810.4/24

Right Out: 5.827+/-0.000 χ^2/NDF : 755950426043838.8/32

Left In: -0.644+/-0.000 χ^2/NDF : 122913584.0/22

Left: -0.649+/-0.000 χ^2/NDF : 302910331.9/47

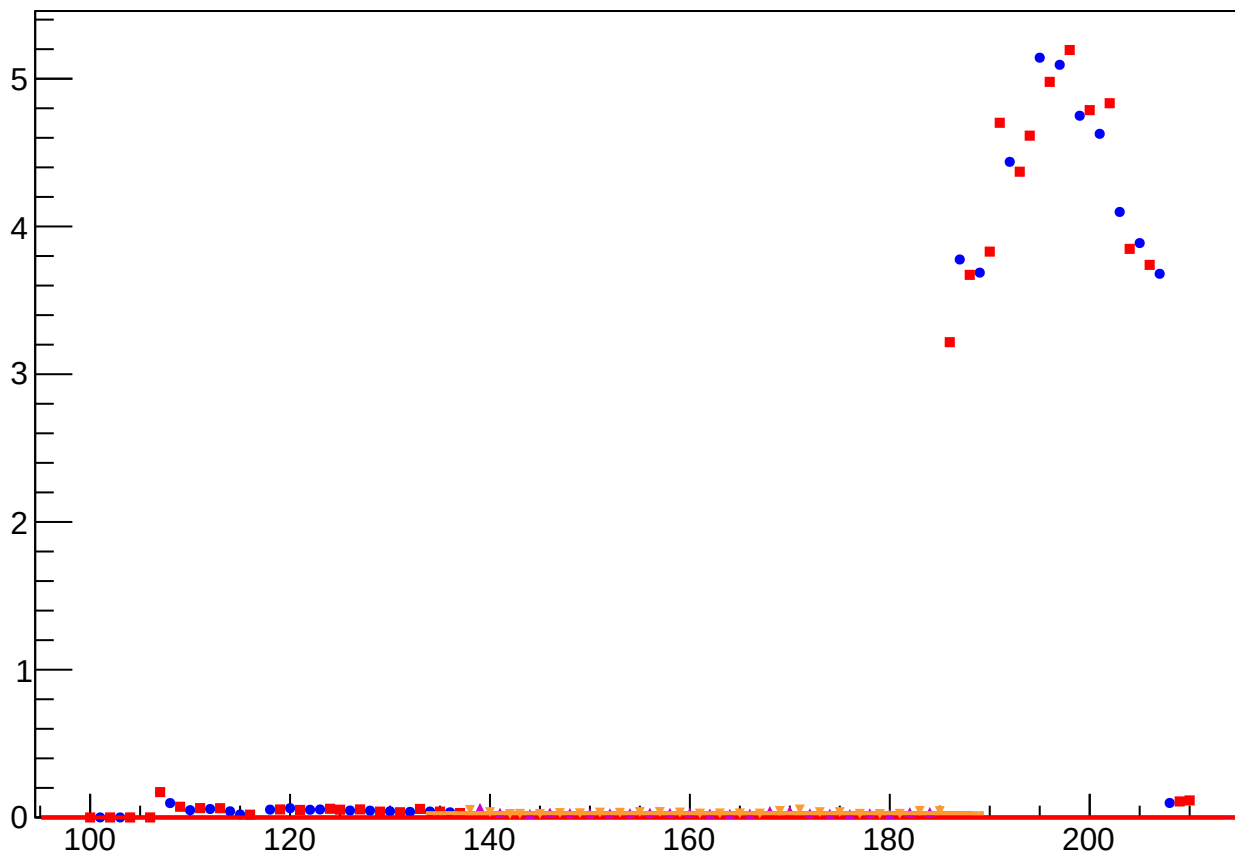
Right: 6.155+/-0.000 χ^2/NDF : 776083620149413.5/47

In: 6.530+/-0.000 χ^2/NDF : 955256711610.8/50

Out: 5.826+/-0.000 χ^2/NDF : 756659453359587.8/50

All: 6.153+/-0.000 χ^2/NDF : 77760698748987.8/97

yield_cav4bX_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 24080500.5/27

Left Out: 0.029+/-0.000 χ^2/NDF :1487017.7/24

Right Out: 0.000+/-0.000 χ^2/NDF : 27635673.2/32

Left In: 0.029+/-0.000 χ^2/NDF :1164030.9/22

Left: 0.029+/-0.000 χ^2/NDF : 2651180.7/47

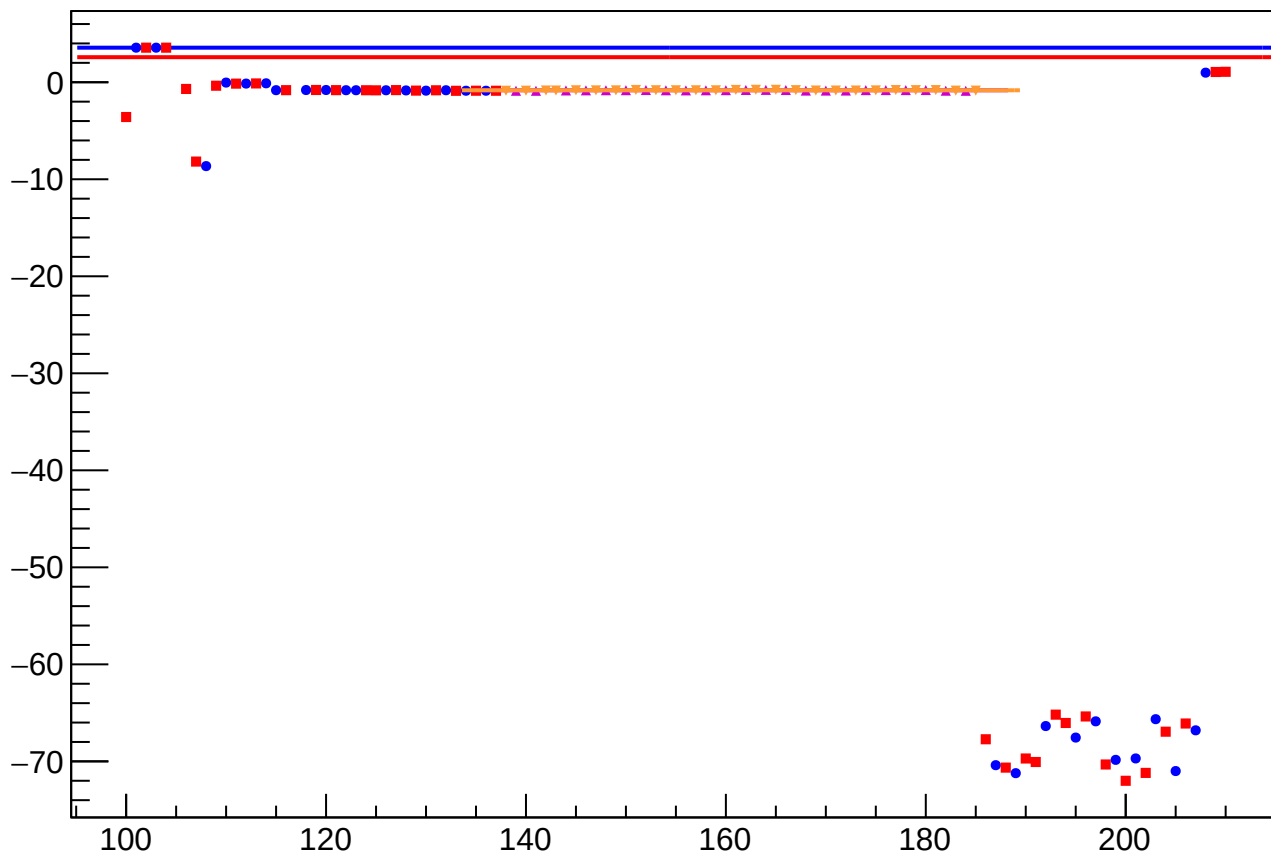
Right: 0.000+/-0.000 χ^2/NDF : 51716406.4/60

In: 0.000+/-0.000 χ^2/NDF :52042024.7/50

Out: 0.000+/-0.000 χ^2/NDF :57511060.9/57

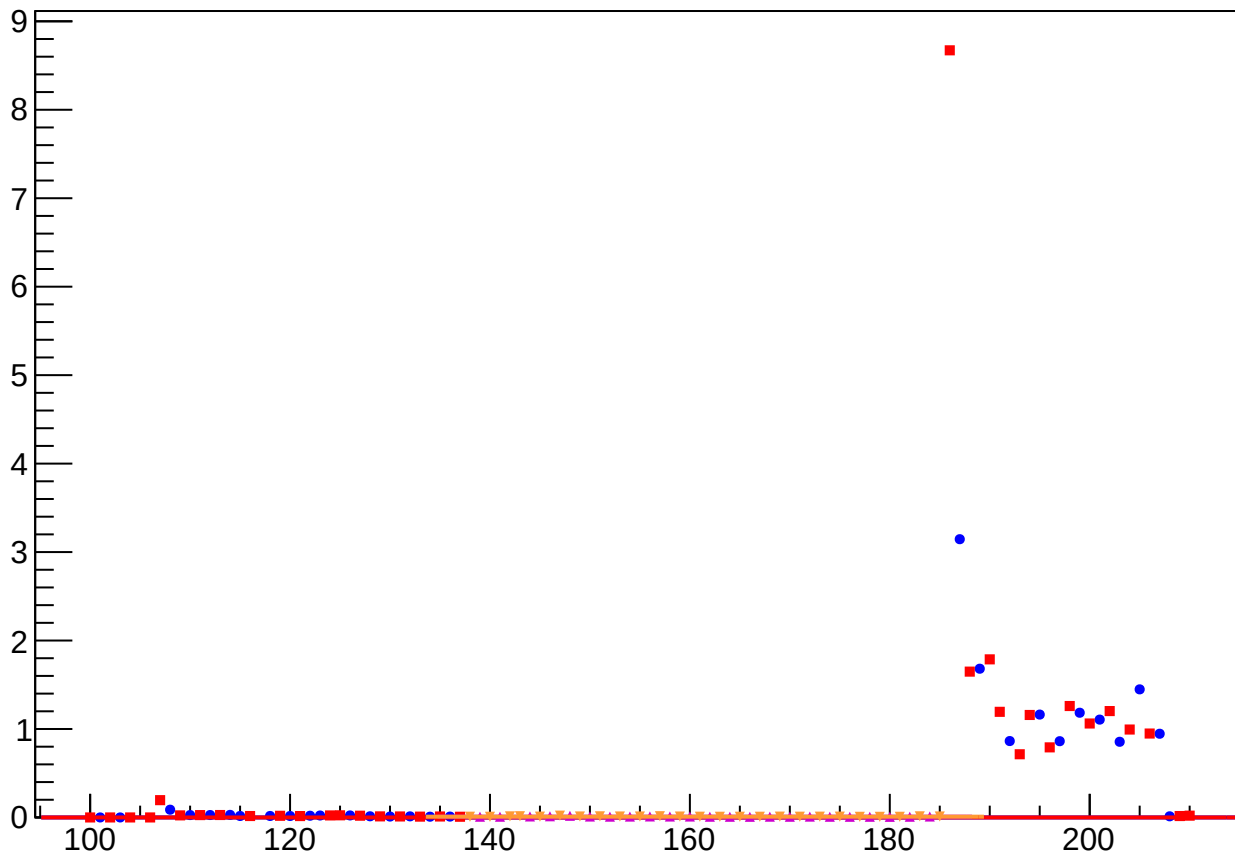
All: 0.000+/-0.000 χ^2/NDF : 109553478.9/108

yield_cav4bY_mean vs Slug, Sign Corrected



Right In: 3.563+/-0.000	χ^2/NDF : 530127462528.1/27	Left: -0.827+/-0.000	χ^2/NDF : 340927693.4/47
Left Out: -0.828+/-0.000	χ^2/NDF : 168178464.8/24	Right: 3.040+/-0.000	χ^2/NDF : 1382344155044411.1
Right Out: 2.583+/-0.000	χ^2/NDF : 1253543143513050.0/32	In: 3.560+/-0.000	χ^2/NDF : 4175830556607.9/50
Left In: -0.827+/-0.000	χ^2/NDF : 172640246.1/22	Out: 2.581+/-0.000	χ^2/NDF : 1255765446186800.2
		All: 3.038+/-0.000	χ^2/NDF : 13880305509536

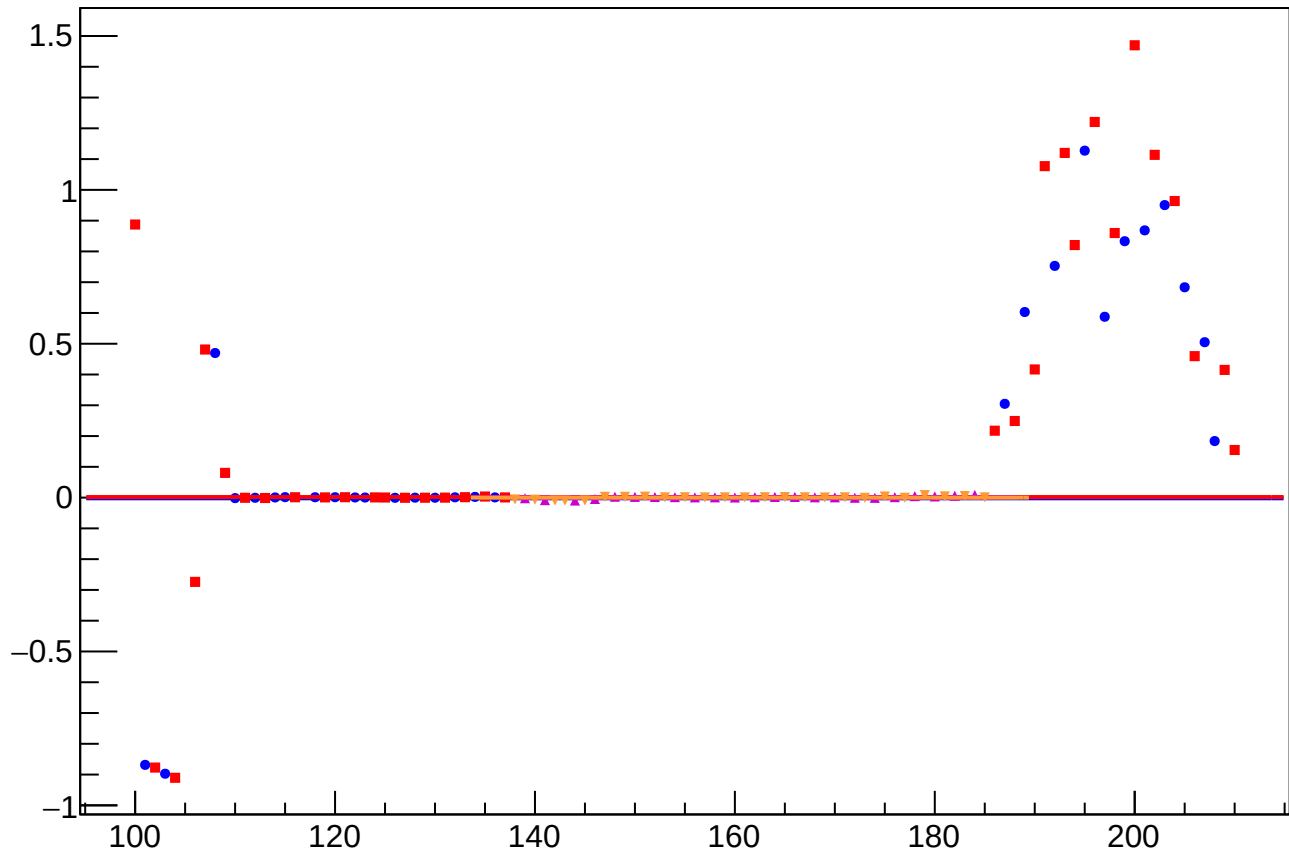
yield_cav4bY_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 22266807.8/27
 Left Out: 0.009+/-0.000 χ^2/NDF :1454710.9/24
 Right Out: 0.000+/-0.000 χ^2/NDF : 25606310.1/32
 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 : 47873344.8/60
 In: 0.000+/-0.000 χ^2/NDF :51801876.5/50
 Out: 0.000+/-0.000 χ^2/NDF :57023200.5/57
 All: 0.000+/-0.000 χ^2/NDF : 108825740.8/108

yield_cav4cX_mean vs Slug, Sign Corrected



Right In: -0.002+/-0.000

χ^2/NDF : 9797101725.2/27

Left: 0.000+/-0.000 χ^2/NDF : 254436385.6/47

Left Out: -0.000+/-0.000

χ^2/NDF : 151482851.1/24

Right: -0.000+/-0.000 χ^2/NDF : 12854574659.9/60

Right Out: 0.002+/-0.000

χ^2/NDF : 3043703417.5/32

In: -0.000+/-0.000 χ^2/NDF : 9909551672.6/50

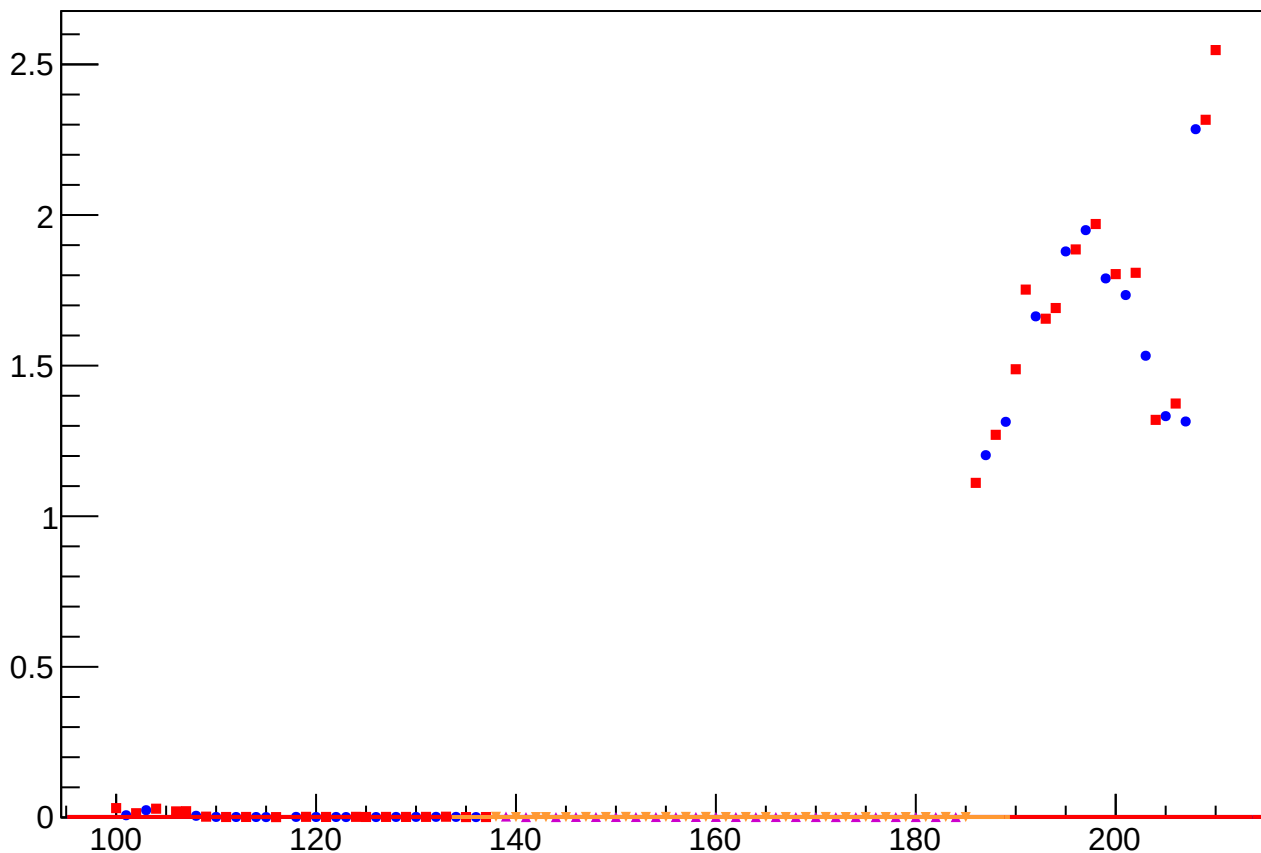
Out: 0.000+/-0.000 χ^2/NDF : 3199920486.8/57

Left In: 0.001+/-0.000

χ^2/NDF : 101439617.3/22

All: 0.000+/-0.000 χ^2/NDF : 13109809199.6/131

yield_cav4cX_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 16959569.2/27

Left Out: 0.001+/-0.000 χ^2/NDF : 539817.3/24

Right Out: 0.002+/-0.000 χ^2/NDF : 21264689.8/32

Left In: 0.001+/-0.000 χ^2/NDF : 626044.8/22

Left: 0.001+/-0.000 χ^2/NDF : 1169603.9/47

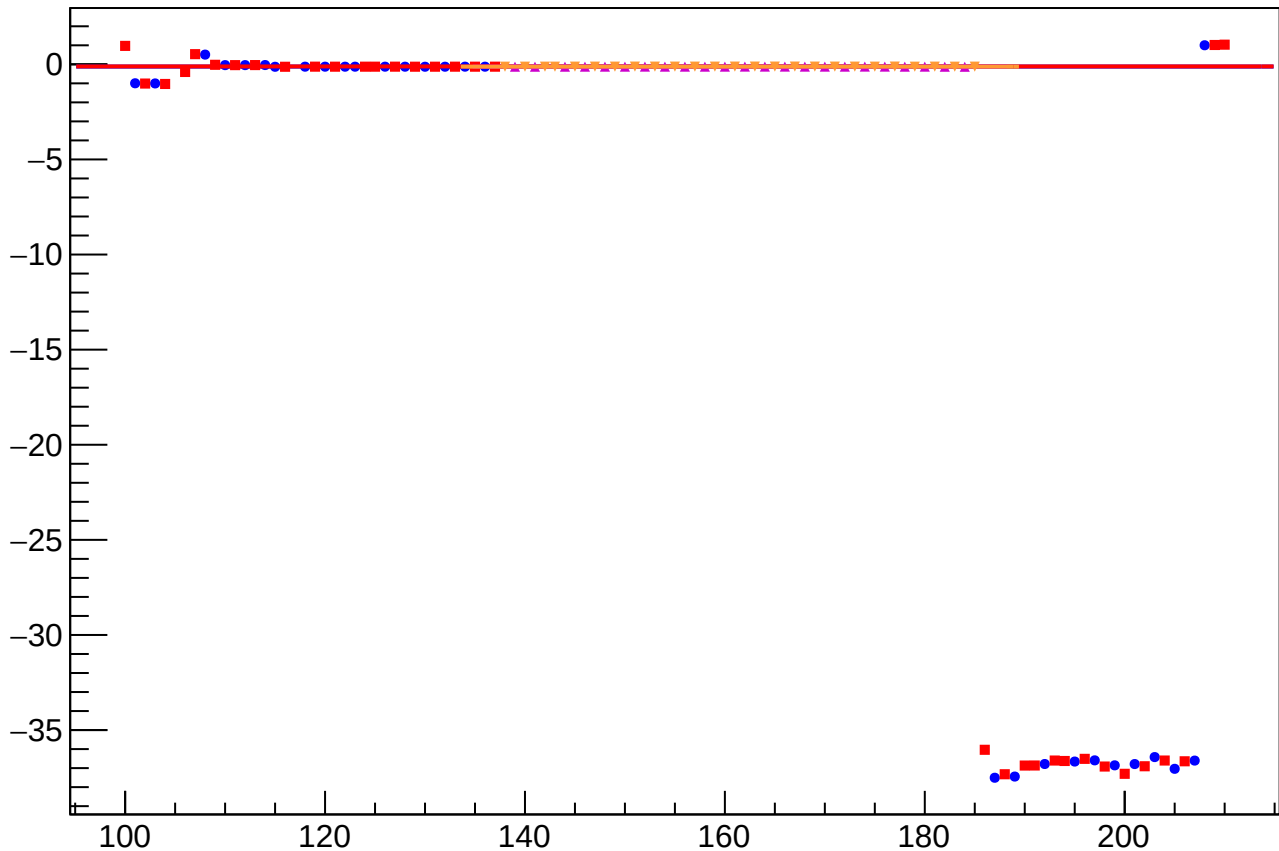
Right: 0.002+/-0.000 χ^2/NDF : 38232831.6/60

In: 0.002+/-0.000 χ^2/NDF : 17637538.2/50

Out: 0.002+/-0.000 χ^2/NDF : 21944183.9/57

All: 0.002+/-0.000 χ^2/NDF : 39582627.7/108

yield_cav4cY_mean vs Slug, Sign Corrected



Right In: -0.118+/-0.000 χ^2/NDF : 73101868843.3/27

Left Out: -0.121+/-0.000 χ^2/NDF : 58120109.3/24

Right Out: -0.110+/-0.000 χ^2/NDF : 81528666918.4/32

Left In: -0.121+/-0.000 χ^2/NDF : 52113932.9/22

Left: -0.121+/-0.000 χ^2/NDF : 110482905.6/47

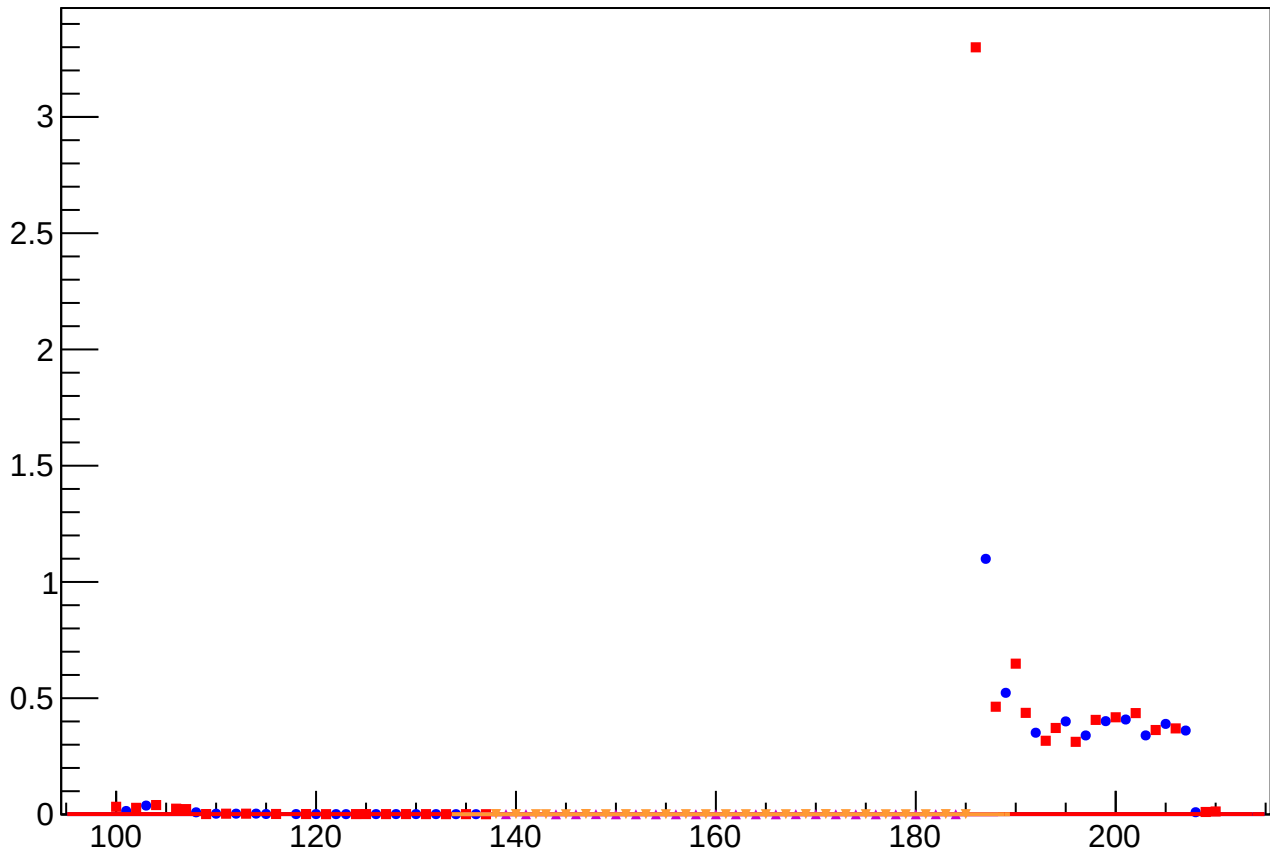
Right: -0.114+/-0.000 χ^2/NDF : 154682769473.3/60

In: -0.121+/-0.000 χ^2/NDF : 73171734063.3/50

Out: -0.120+/-0.000 χ^2/NDF : 81787526098.8/57

All: -0.120+/-0.000 χ^2/NDF : 154962050334.9

yield_cav4cY_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 16939731.4/27

Left Out: 0.001+/-0.000 χ^2/NDF :1363316.8/24

Right Out: 0.002+/-0.000 χ^2/NDF : 20525142.0/32

Left In: 0.001+/-0.000 χ^2/NDF :970801.8/22

Left: 0.001+/-0.000 χ^2/NDF : 2335161.7/47

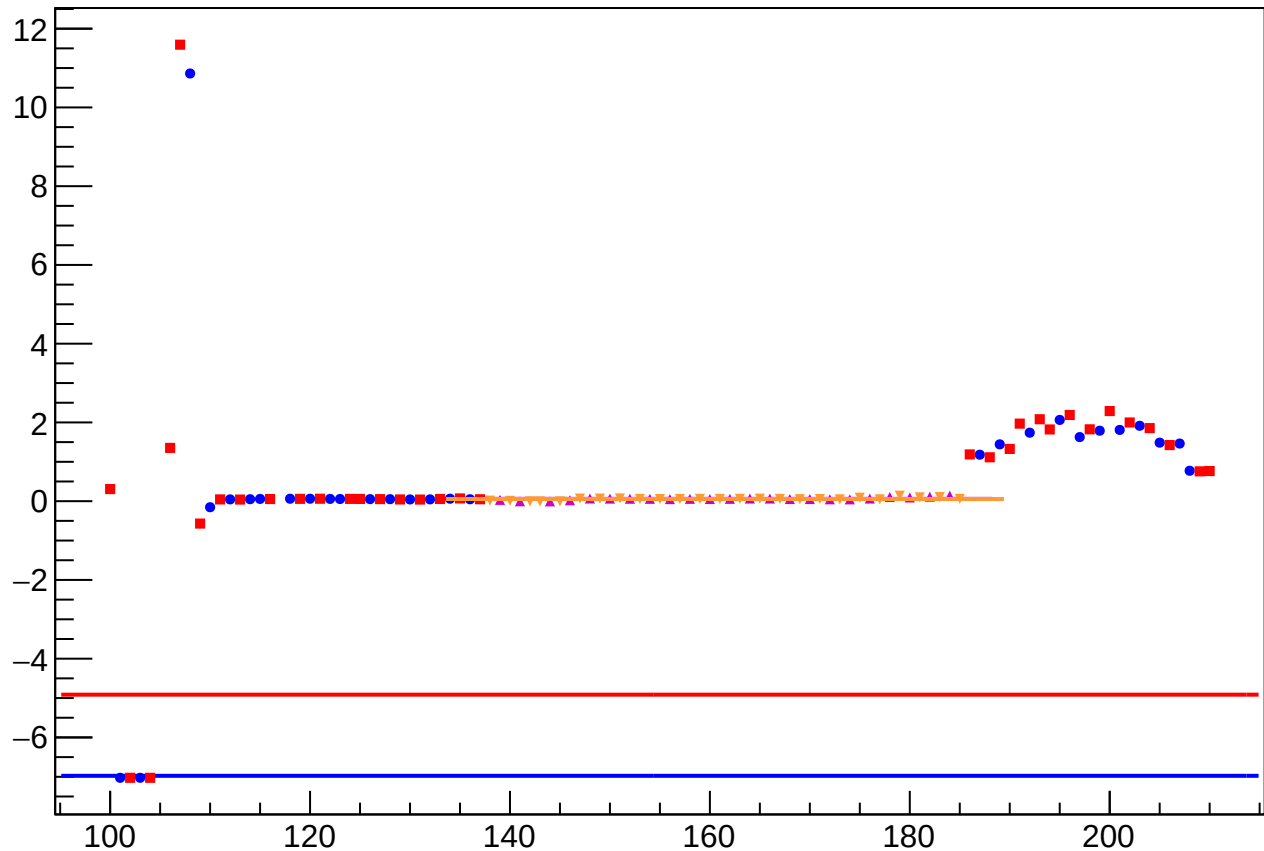
Right: 0.002+/-0.000 χ^2/NDF : 37465622.6/60

In: 0.001+/-0.000 χ^2/NDF :19193755.6/50

Out: 0.001+/-0.000 χ^2/NDF :23300128.5/57

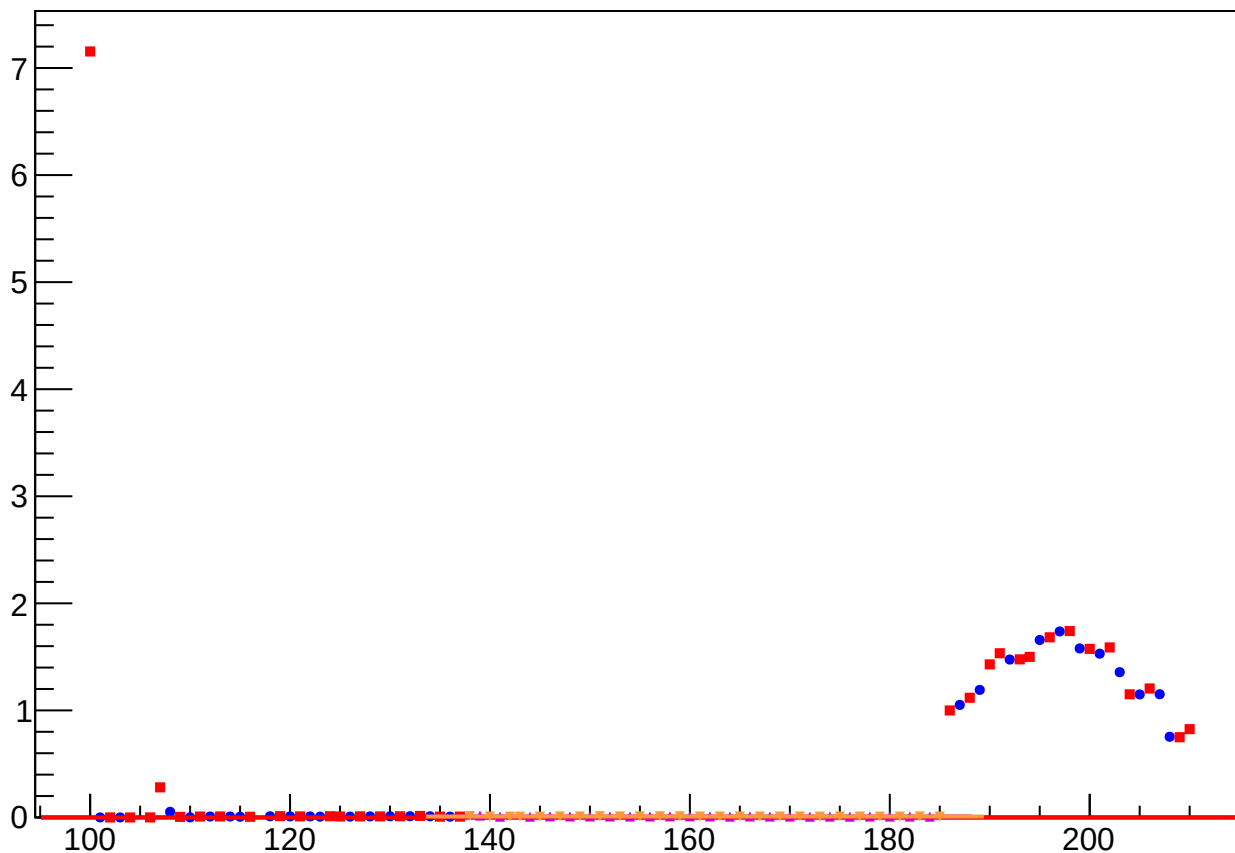
All: 0.001+/-0.000 χ^2/NDF : 42495418.1/108

yield_cav4dX_mean vs Slug, Sign Corrected



Right In: -6.975 ± 0.000 $\chi^2/\text{NDF}: 8797691932676.1/27$ 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 $\chi^2/\text{NDF}: 430333859667821.6$
 Right Out: -4.914 ± 0.000 $\chi^2/\text{NDF}: 365352909771694.1/32$ In: -6.926 ± 0.000 $\chi^2/\text{NDF}: 17553208516738.9/50$
 Left In: 0.059 ± 0.000 $\chi^2/\text{NDF}: 178541521.9/22$ Out: -4.879 ± 0.000 $\chi^2/\text{NDF}: 370165471719052.3/$
 All: -5.858 ± 0.000 $\chi^2/\text{NDF}: 4435291473830$

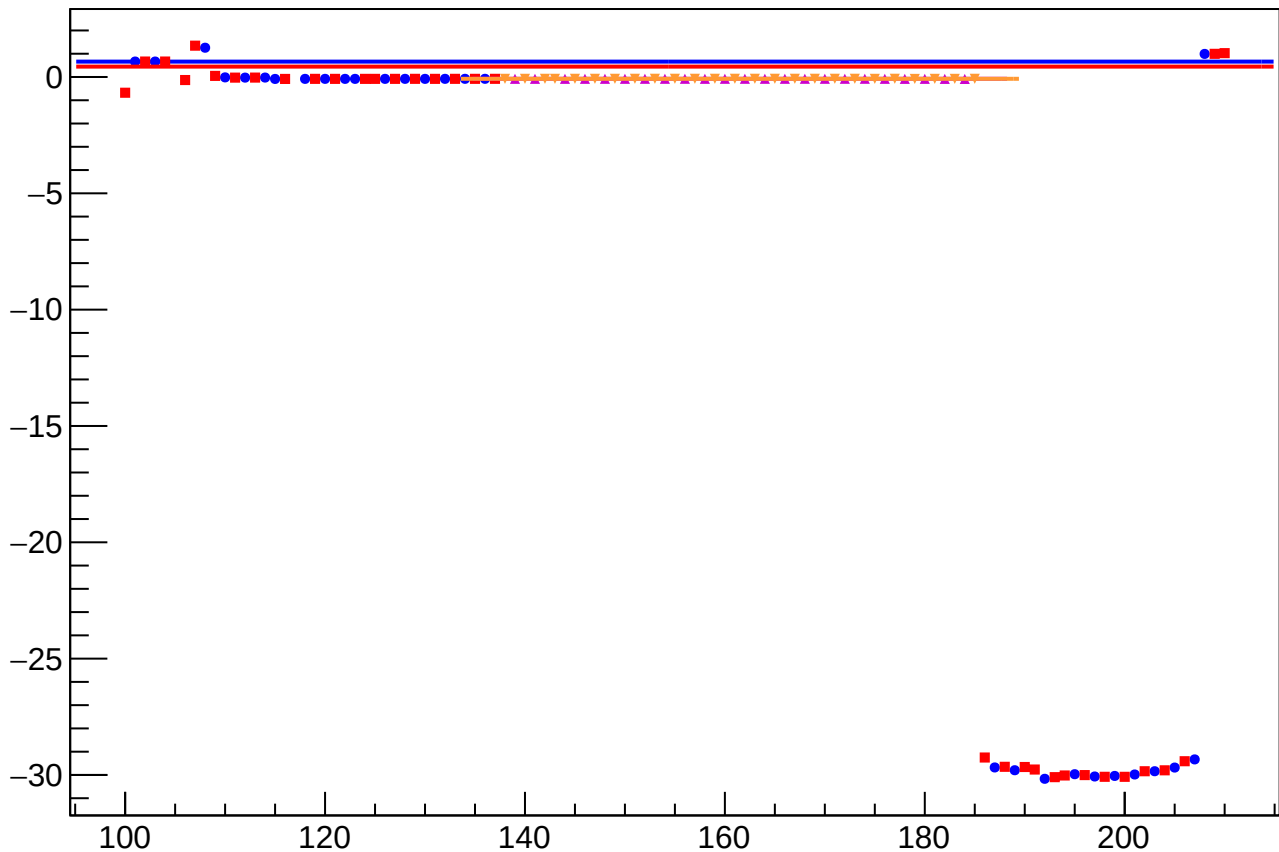
yield_cav4dX_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 23414474.2/27
Left Out: 0.009+/-0.000 χ^2/NDF : 514432.8/24
Right Out: 0.000+/-0.000 χ^2/NDF : 27051825.1/32
Left In: 0.009+/-0.000 χ^2/NDF : 602517.2/22

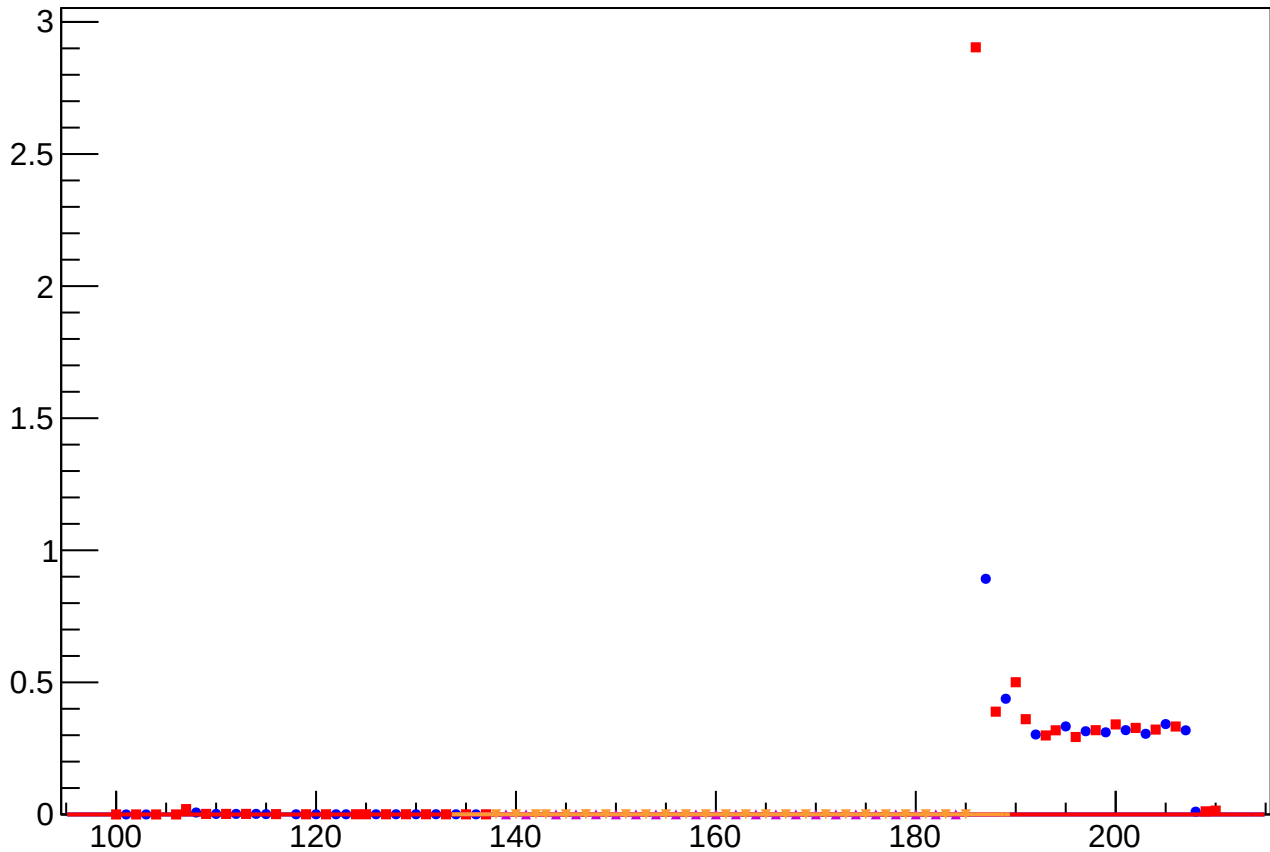
Left: 0.009+/-0.000 χ^2/NDF : 1122225.0/47
Right: 0.000+/-0.000 χ^2/NDF : 50466642.8/60
In: 0.000+/-0.000 χ^2/NDF : 50832053.2/50
Out: 0.000+/-0.000 χ^2/NDF : 55995360.0/57
All: 0.000+/-0.000 χ^2/NDF : 106827872.8/108

yield_cav4dY_mean vs Slug, Sign Corrected



Right In: 0.661+/-0.000	χ^2/NDF : 5719778964147.2/27	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 : 474125682054656.6
Right Out: 0.446+/-0.000	χ^2/NDF : 405493037676963.9/32	In: 0.647+/-0.000	χ^2/NDF : 33760507012842.9/50
Left In: -0.077+/-0.000	χ^2/NDF : 110762924.1/22	Out: 0.436+/-0.000	χ^2/NDF : 420654207848853.9/5
		All: 0.537+/-0.000	χ^2/NDF : 51597021428482

yield_cav4dY_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 24842362.8/27

Left Out: 0.001+/-0.000 χ^2/NDF :465981.8/24

Right Out: 0.000+/-0.000 χ^2/NDF : 27597171.8/32

Left In: 0.001+/-0.000 χ^2/NDF :355509.7/22

Left: 0.001+/-0.000 χ^2/NDF : 822503.5/47

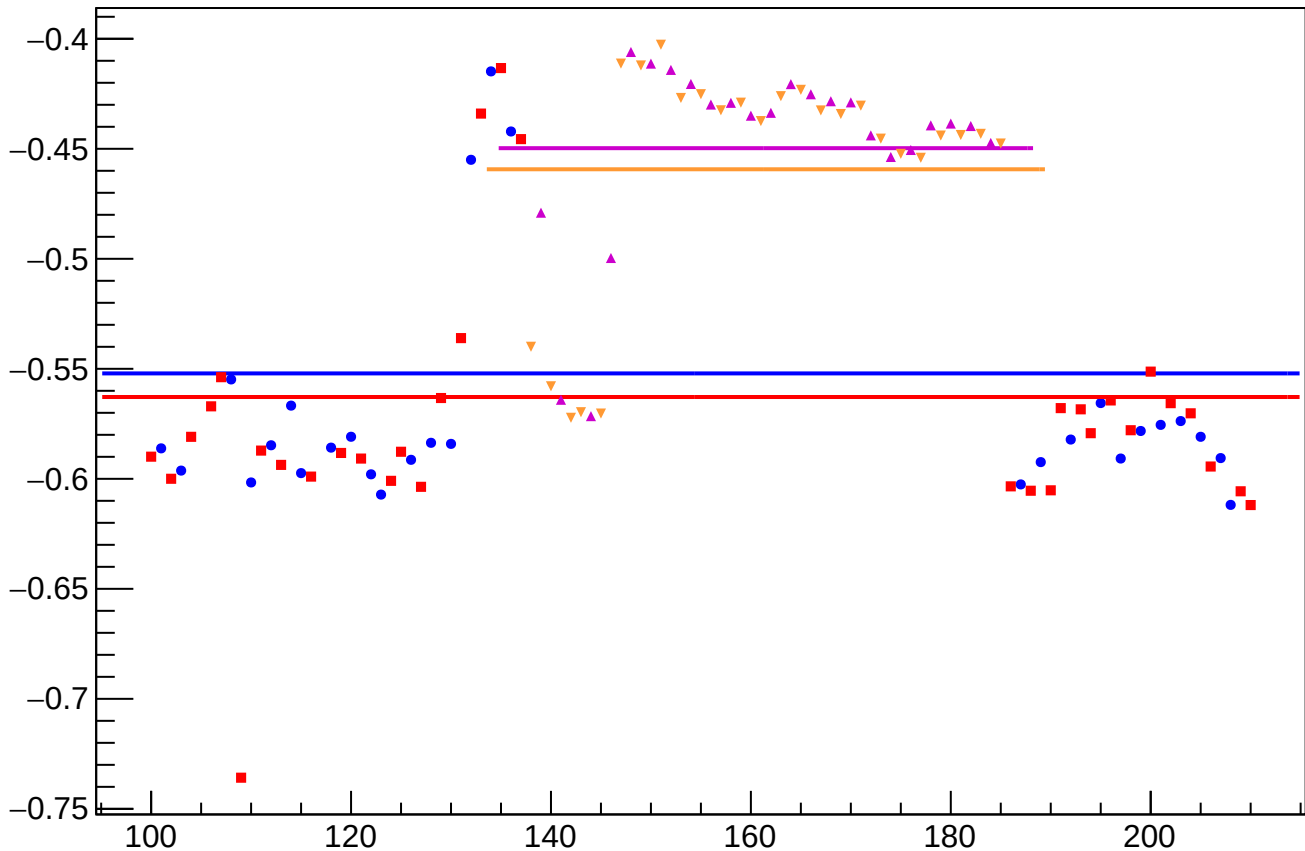
Right: 0.000+/-0.000 χ^2/NDF : 52439544.5/60

In: 0.000+/-0.000 χ^2/NDF :55572280.0/50

Out: 0.000+/-0.000 χ^2/NDF :60213921.8/57

All: 0.000+/-0.000 χ^2/NDF : 115786508.9/108

yield_bpm4aX_mean vs Slug, Sign Corrected



Right In: -0.552 $\pm$ 0.000 χ^2/NDF : 49388432.0/27

Left Out: -0.459 $\pm$ 0.000 χ^2/NDF : 113602161.0/24

Right Out: -0.563 $\pm$ 0.000 χ^2/NDF : 67198799.4/32

Left In: -0.450 $\pm$ 0.000 χ^2/NDF : 76117957.8/22

Left: -0.455 $\pm$ 0.000 χ^2/NDF : 191493218.8/47

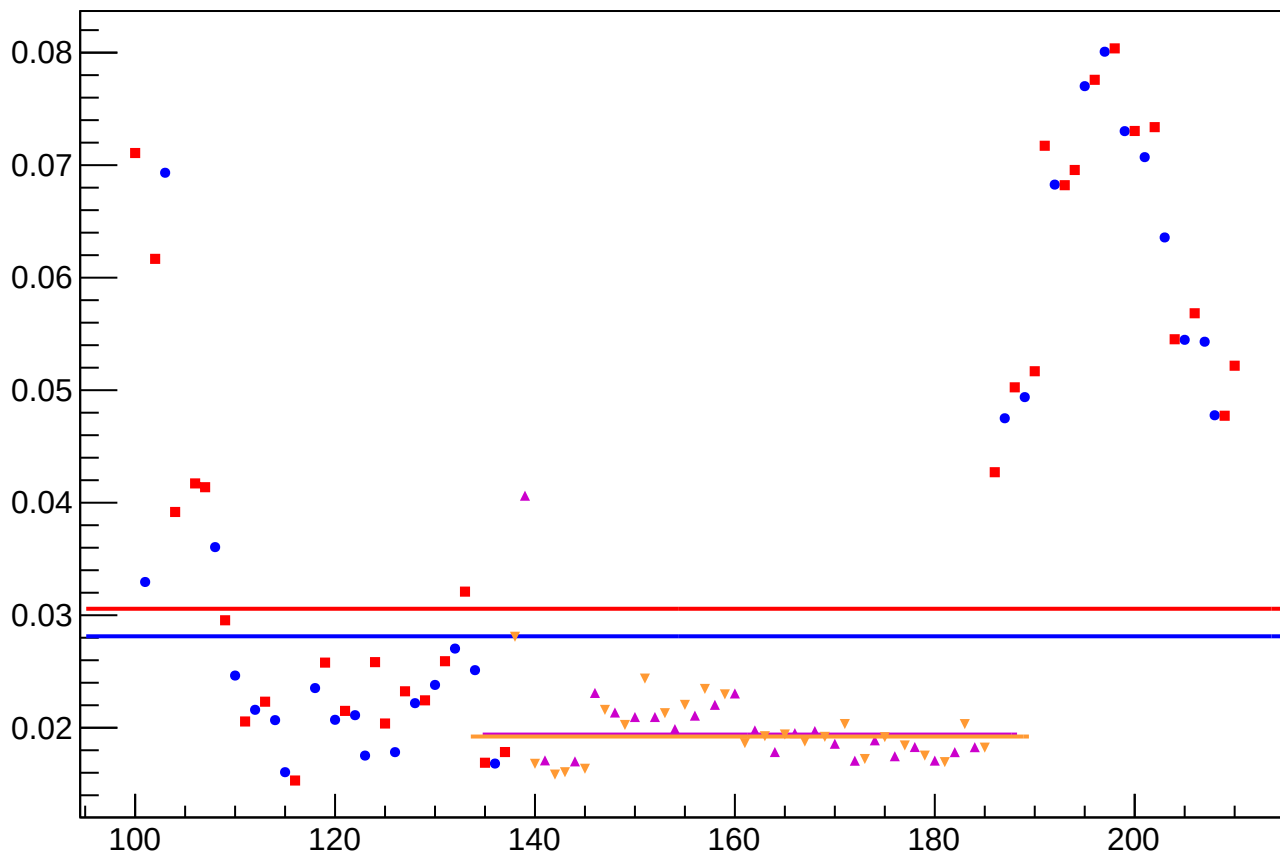
Right: -0.557 $\pm$ 0.000 χ^2/NDF : 117303786.1/60

In: -0.476 $\pm$ 0.000 χ^2/NDF : 223541299.6/50

Out: -0.484 $\pm$ 0.000 χ^2/NDF : 282329970.2/57

All: -0.480 $\pm$ 0.000 χ^2/NDF : 507583829.0/10

yield_bpm4aX_rms vs Slug, Sign Corrected



Right In: 0.028+/-0.000 χ^2/NDF : 6424984.7/27

Left Out: 0.019+/-0.000 χ^2/NDF : 501711.6/24

Right Out: 0.031+/-0.000 χ^2/NDF : 6872431.6/32

Left In: 0.019+/-0.000 χ^2/NDF : 626443.5/22

Left: 0.019+/-0.000 χ^2/NDF : 1129330.7/47

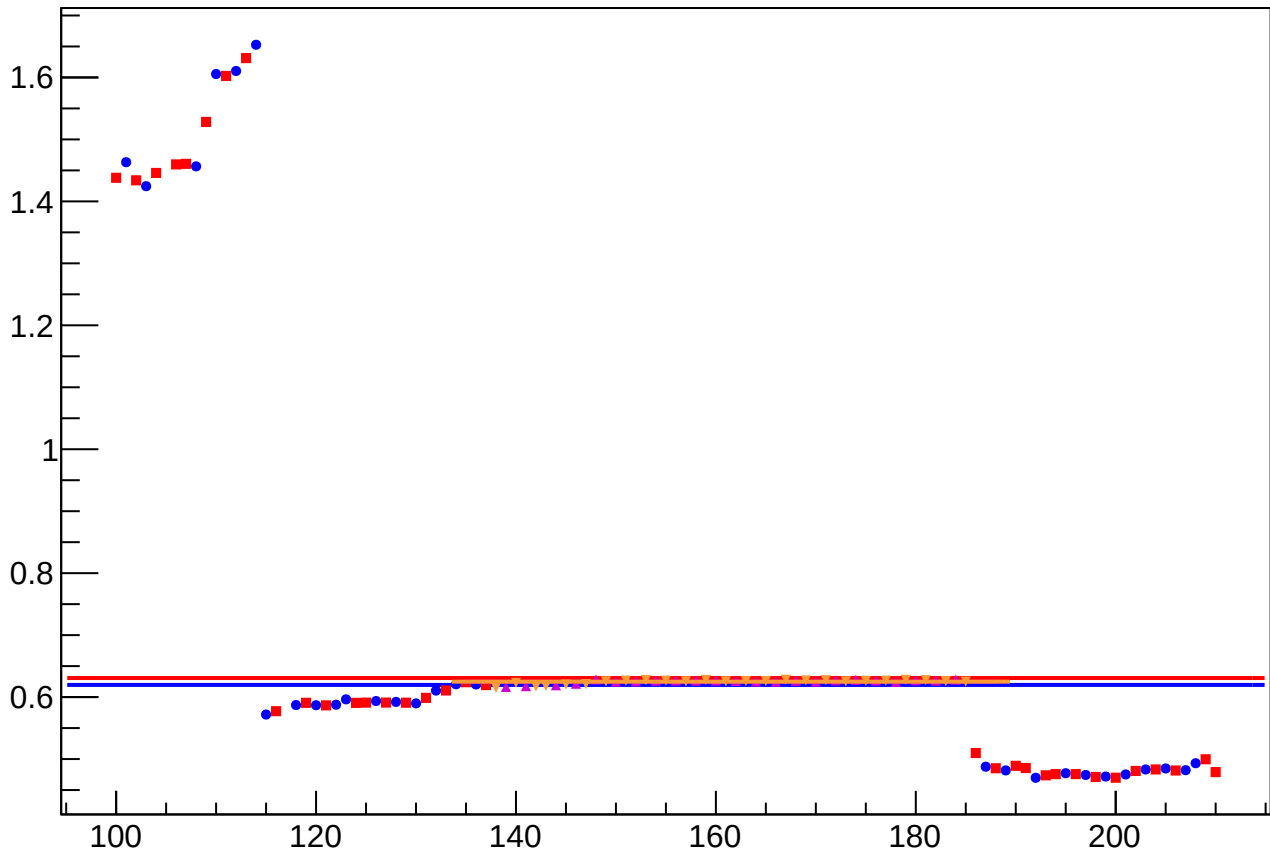
Right: 0.029+/-0.000 χ^2/NDF : 13371968.6/60

In: 0.022+/-0.000 χ^2/NDF : 8478743.9/50

Out: 0.022+/-0.000 χ^2/NDF : 9818065.4/57

All: 0.022+/-0.000 χ^2/NDF : 18301459.1/108

yield_bpm4aY_mean vs Slug, Sign Corrected



Right In: 0.620+/-0.000 χ^2/NDF : 5073804265.9/27

Left Out: 0.625+/-0.000 χ^2/NDF :1445169.1/24

Right Out: 0.631+/-0.000 χ^2/NDF : 6163822830.0/32

Left In: 0.625+/-0.000 χ^2/NDF :1143954.1/22

Left: 0.625+/-0.000 χ^2/NDF : 2589565.7/47

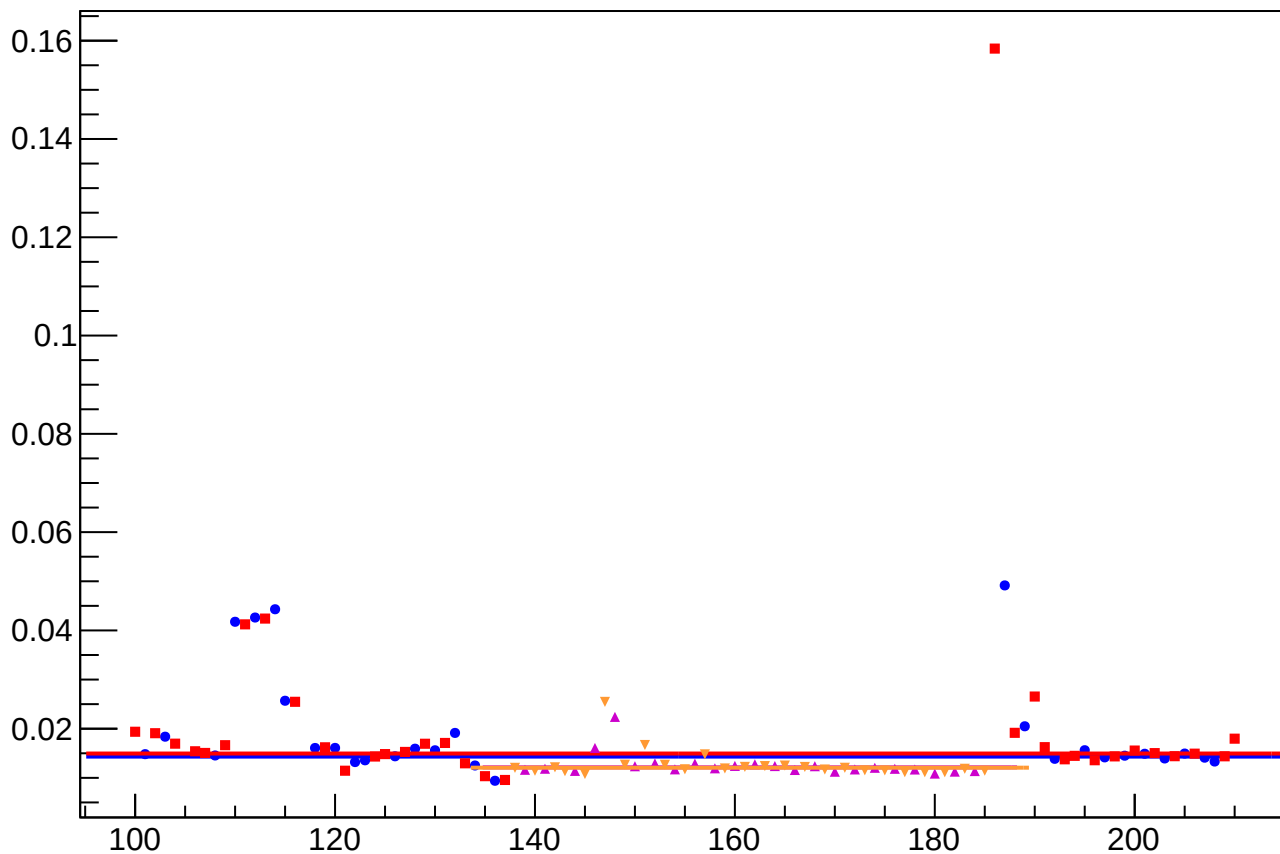
Right: 0.625+/-0.000 χ^2/NDF : 11241594877.5/60

In: 0.623+/-0.000 χ^2/NDF :5076038313.8/50

Out: 0.627+/-0.000 χ^2/NDF :6166717651.6/57

All: 0.625+/-0.000 χ^2/NDF : 11244199520.5/112

yield_bpm4aY_rms vs Slug, Sign Corrected



Right In: 0.014 $\pm$ 0.000 χ^2 /NDF: 1648043.3/27

Left Out: 0.012 $\pm$ 0.000 χ^2 /NDF:657199.9/24

Right Out: 0.015 $\pm$ 0.000 χ^2 /NDF: 2119304.3/32

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

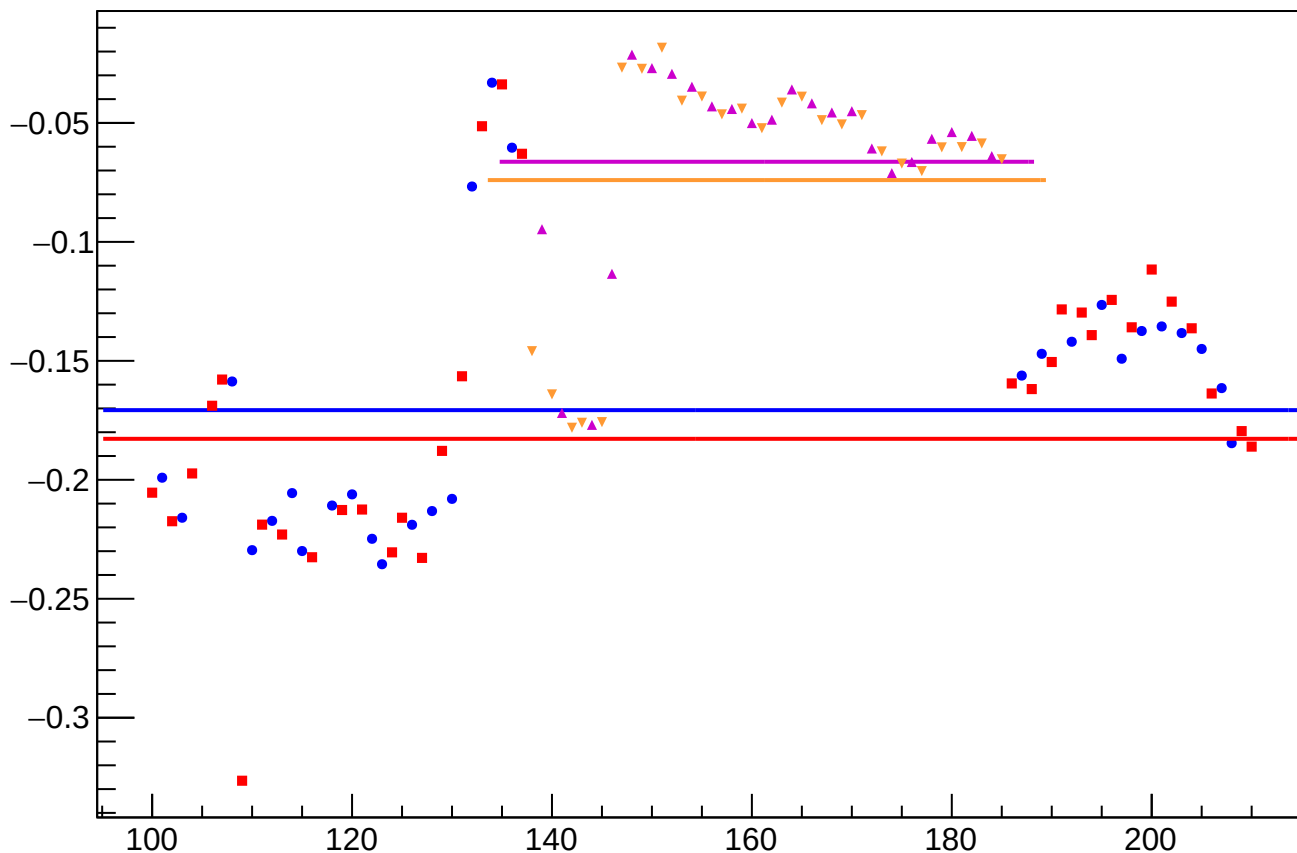
Right: 0.015 $\pm$ 0.000 χ^2 /NDF: 3792203.0/60

In: 0.013 $\pm$ 0.000 χ^2 /NDF:2525611.5/50

Out: 0.013 $\pm$ 0.000 χ^2 /NDF:3480030.4/57

All: 0.013 $\pm$ 0.000 χ^2 /NDF: 6010320.4/108

yield_bpm4eX_mean vs Slug, Sign Corrected



Right In: -0.171+/-0.000 χ^2/NDF : 68417026.8/27

Left Out: -0.074+/-0.000 χ^2/NDF : 107676601.9/24

Right Out: -0.183+/-0.000 χ^2/NDF : 86389704.0/32

Left In: -0.066+/-0.000 χ^2/NDF : 76243051.8/22

Left: -0.070+/-0.000 χ^2/NDF : 185076997.5/47

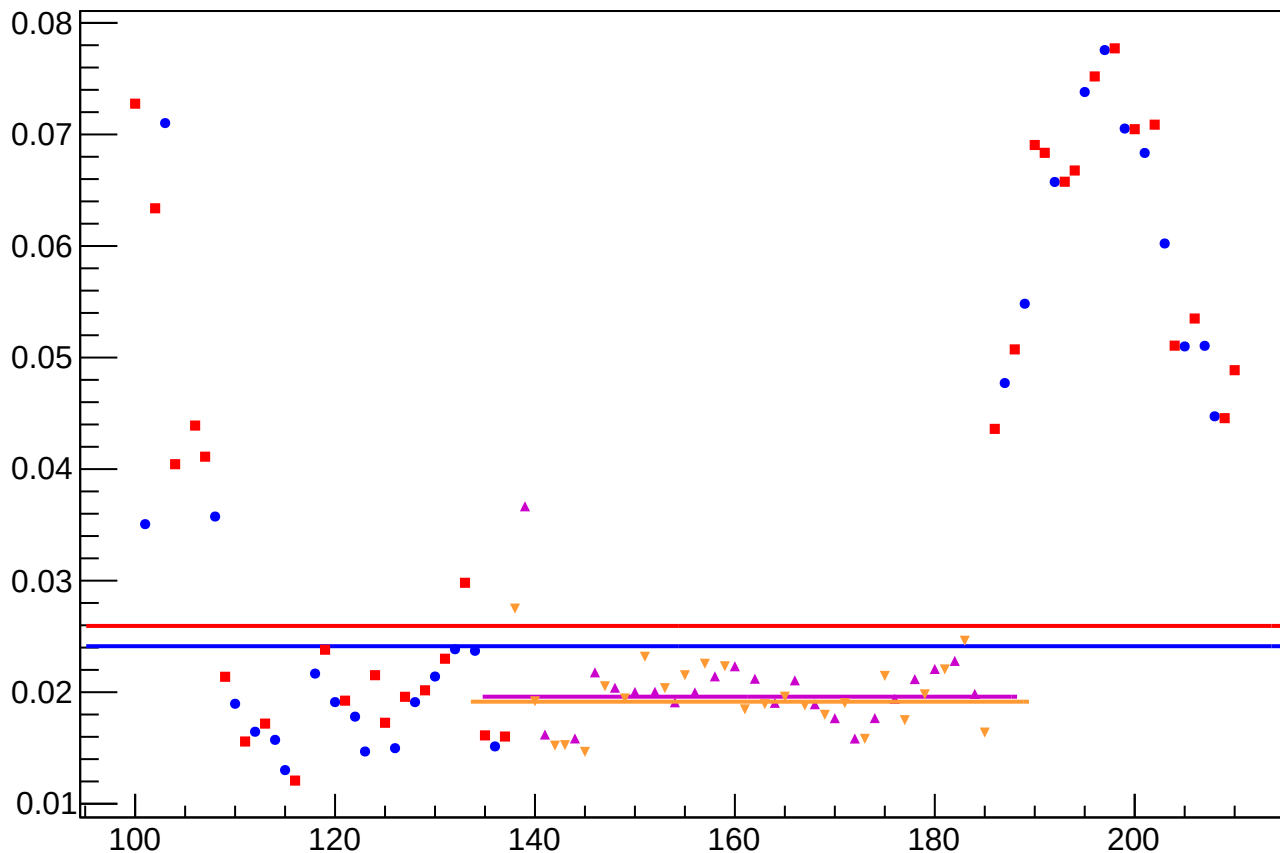
Right: -0.177+/-0.000 χ^2/NDF : 155978836.2/60

In: -0.098+/-0.000 χ^2/NDF : 267252054.7/50

Out: -0.105+/-0.000 χ^2/NDF : 331031567.9/57

All: -0.101+/-0.000 χ^2/NDF : 599521951.3/10

yield_bpm4eX_rms vs Slug, Sign Corrected



Right In: 0.024 $\pm$ 0.000 χ^2/NDF : 7491218.4/27

Left Out: 0.019 $\pm$ 0.000 χ^2/NDF : 641277.0/24

Right Out: 0.026 $\pm$ 0.000 χ^2/NDF : 8392013.6/32

Left In: 0.020 $\pm$ 0.000 χ^2/NDF : 623148.2/22

Left: 0.019 $\pm$ 0.000 χ^2/NDF : 1272240.9/47

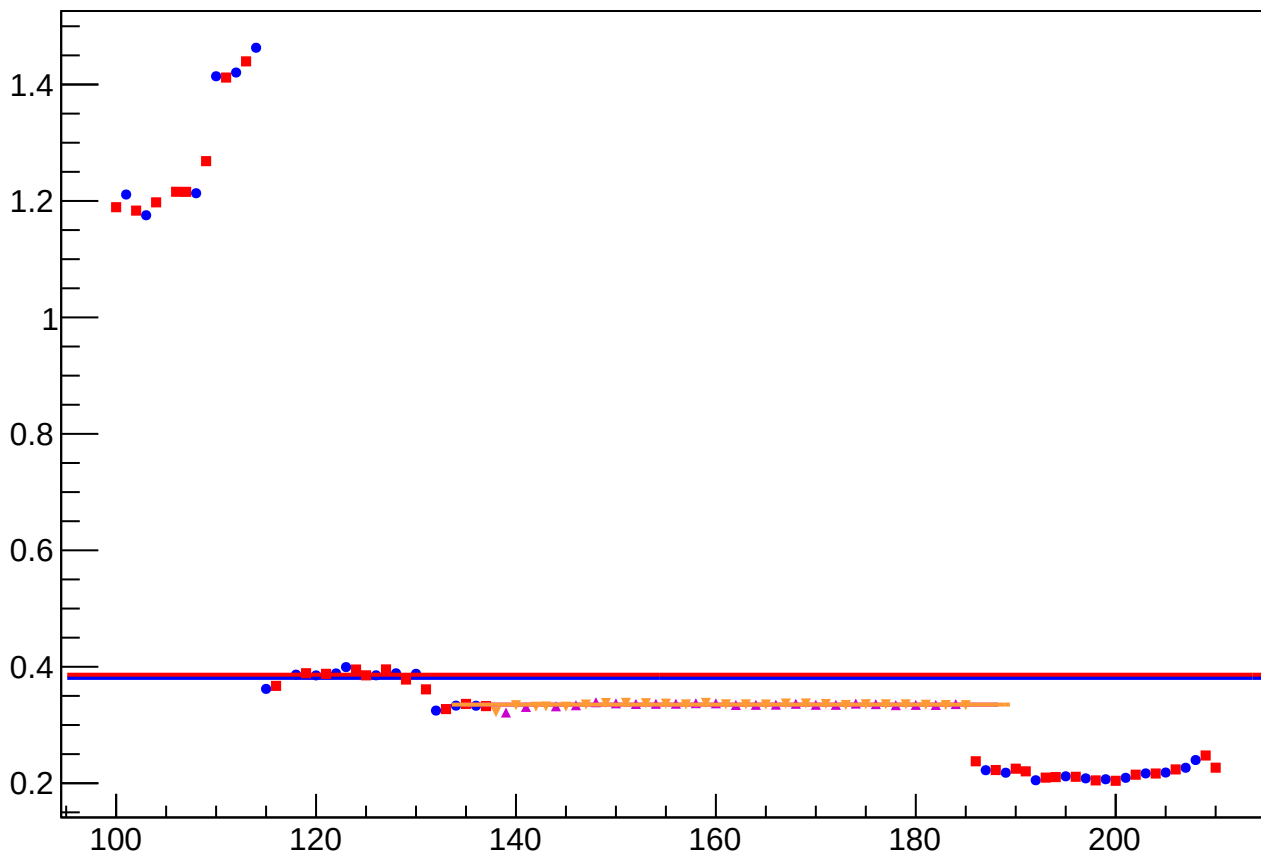
Right: 0.025 $\pm$ 0.000 χ^2/NDF : 15936603.0/60

In: 0.021 $\pm$ 0.000 χ^2/NDF : 8575148.2/50

Out: 0.021 $\pm$ 0.000 χ^2/NDF : 10101891.1/57

All: 0.021 $\pm$ 0.000 χ^2/NDF : 18677529.2/108

yield_bpm4eY_mean vs Slug, Sign Corrected



Right In: 0.381+/-0.000

χ^2/NDF : 7492037320.1/27

Left: 0.335+/-0.000 χ^2/NDF : 2356931.1/47

Right: 0.384+/-0.000 χ^2/NDF : 16164242613.5/60

Left Out: 0.335+/-0.000

χ^2/NDF :1154310.3/24

In: 0.353+/-0.000 χ^2/NDF :7598034440.5/50

Right Out: 0.386+/-0.000

χ^2/NDF : 8670974655.4/32

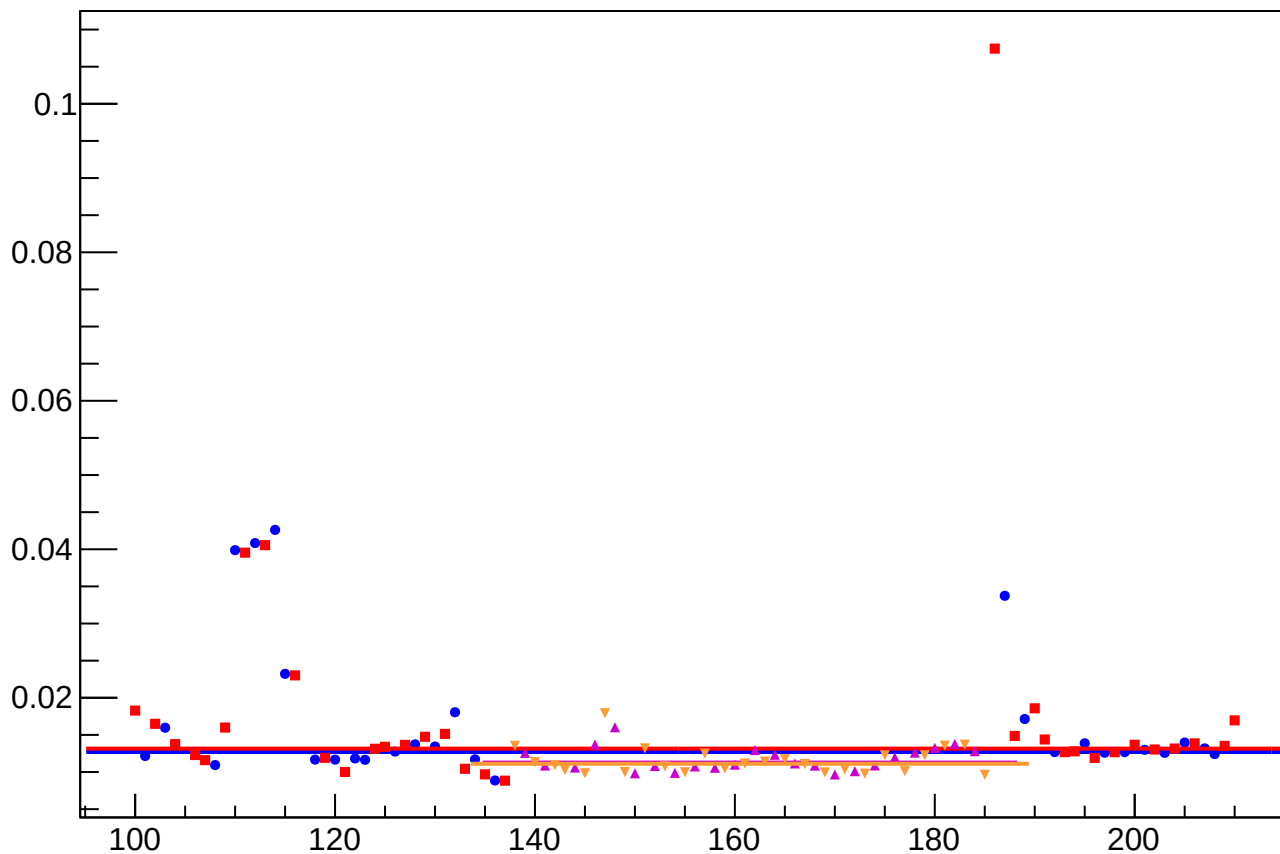
Out: 0.354+/-0.000 χ^2/NDF :8811072331.8/57

Left In: 0.335+/-0.000

χ^2/NDF :1202194.8/22

All: 0.353+/-0.000 χ^2/NDF : 16409400946.8/1

yield_bpm4eY_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 1525354.5/27

Left Out: 0.011+/-0.000 χ^2/NDF : 607532.0/24

Right Out: 0.013+/-0.000 χ^2/NDF : 2014187.4/32

Left In: 0.011+/-0.000 χ^2/NDF : 502455.5/22

Left: 0.011+/-0.000 χ^2/NDF : 1113465.5/47

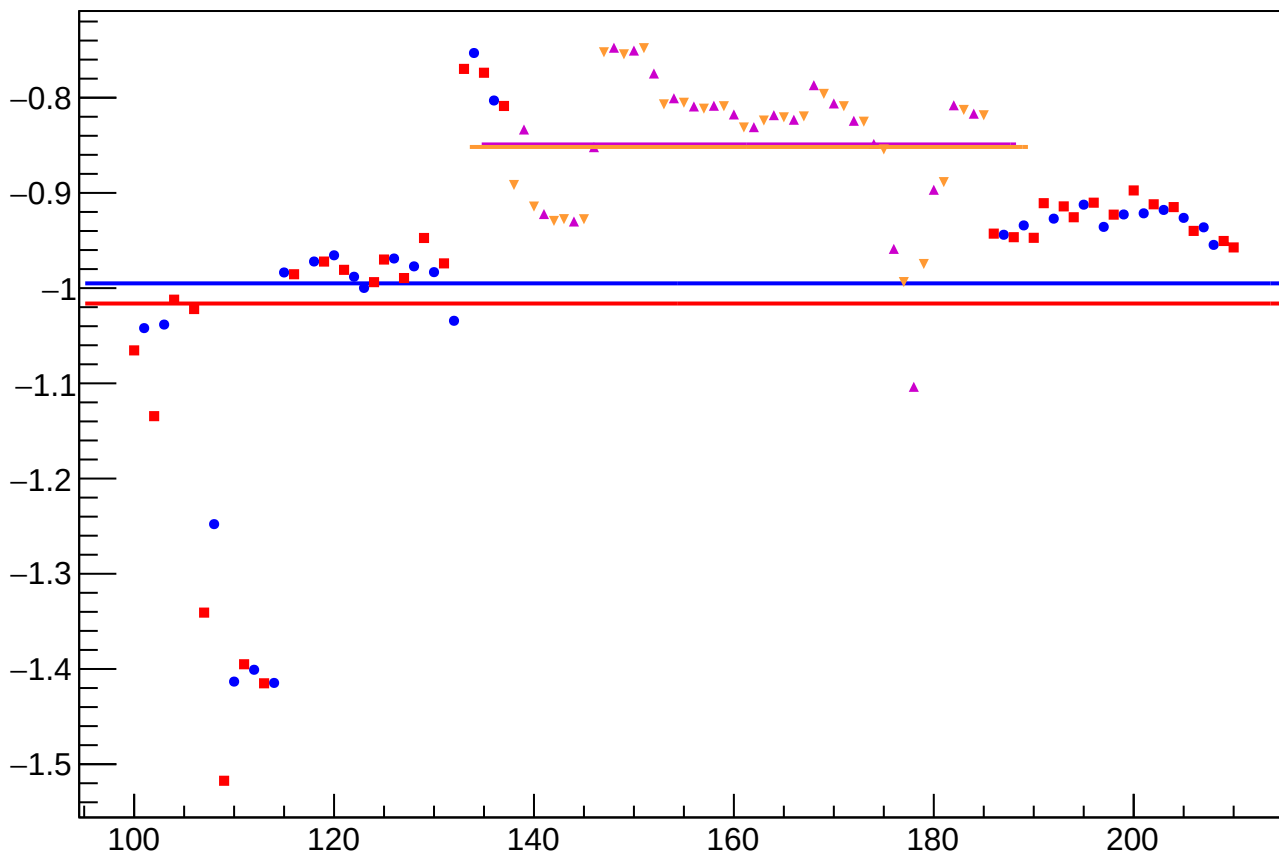
Right: 0.013+/-0.000 χ^2/NDF : 3556380.7/60

In: 0.012+/-0.000 χ^2/NDF : 2230763.6/50

Out: 0.012+/-0.000 χ^2/NDF : 3061652.5/57

All: 0.012+/-0.000 χ^2/NDF : 5293060.7/108

yield_bpm4acX_mean vs Slug, Sign Corrected



Right In: -0.995 ± 0.000 $\chi^2/\text{NDF}: 404129191.2/27$

Left Out: -0.852 ± 0.000 $\chi^2/\text{NDF}: 189103962.4/24$

Right Out: -1.016 ± 0.000 $\chi^2/\text{NDF}: 560194449.8/32$

Left In: -0.849 ± 0.000 $\chi^2/\text{NDF}: 256391274.4/22$

Left: -0.850 ± 0.000 $\chi^2/\text{NDF}: 445636655.2/47$

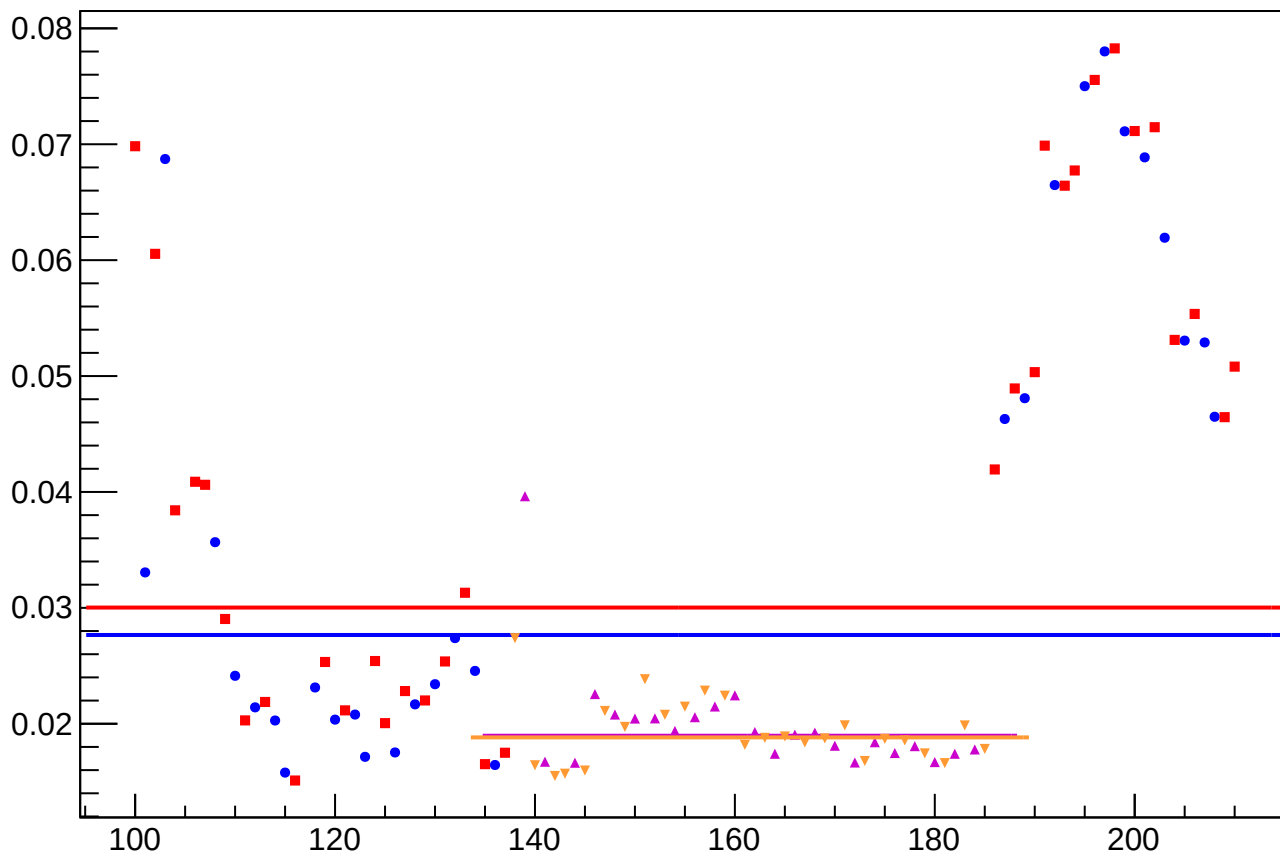
Right: -1.006 ± 0.000 $\chi^2/\text{NDF}: 967221745.7/60$

In: -0.886 ± 0.000 $\chi^2/\text{NDF}: 867445597.2/50$

Out: -0.890 ± 0.000 $\chi^2/\text{NDF}: 1015696290.2/57$

All: -0.888 ± 0.000 $\chi^2/\text{NDF}: 1883760169.1/111$

yield_bpm4acX_rms vs Slug, Sign Corrected



Right In: 0.028 $\pm$ 0.000 χ^2 /NDF: 6382084.7/27

Left Out: 0.019 $\pm$ 0.000 χ^2 /NDF:490509.4/24

Right Out: 0.030 $\pm$ 0.000 χ^2 /NDF: 6797834.3/32

Left In: 0.019 $\pm$ 0.000 χ^2 /NDF:615173.8/22

Left: 0.019 $\pm$ 0.000 χ^2 /NDF: 1106521.0/47

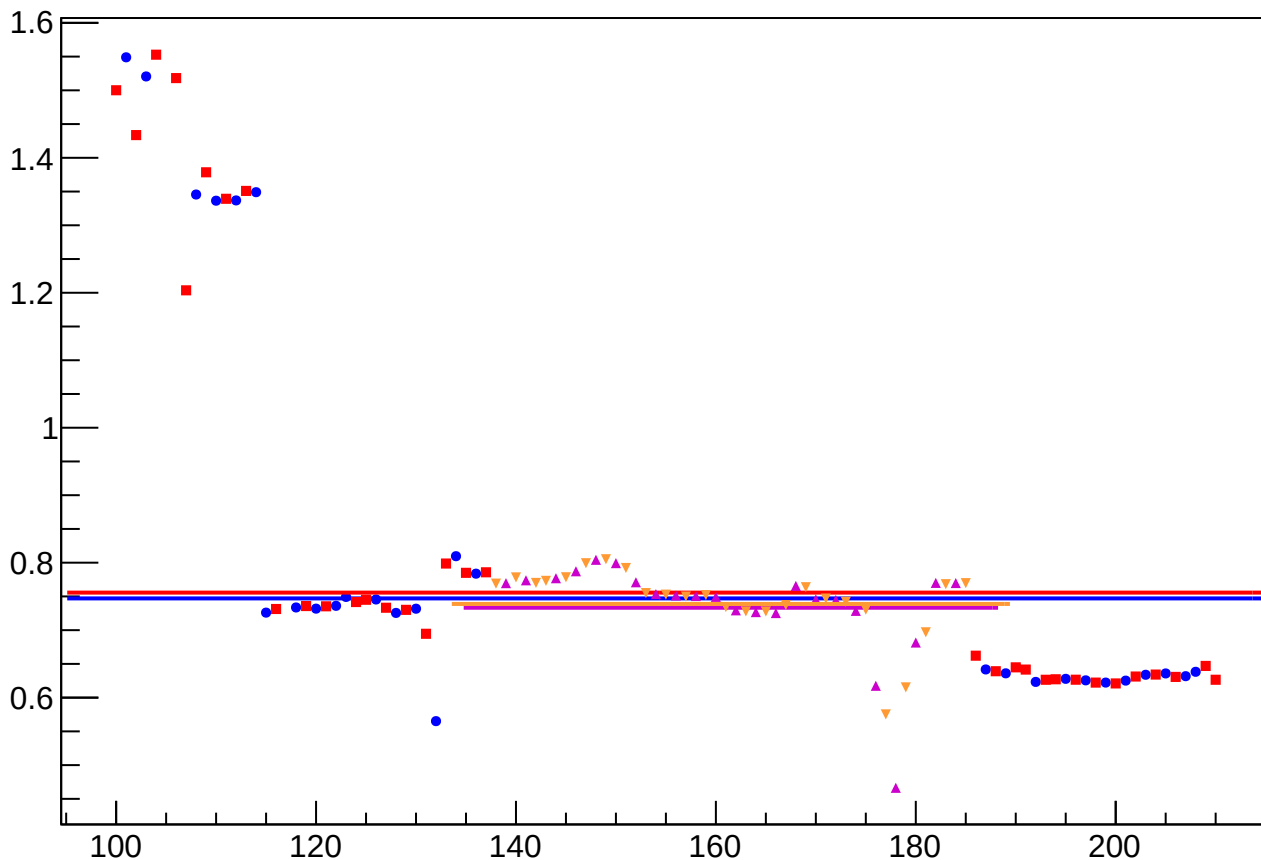
Right: 0.029 $\pm$ 0.000 χ^2 /NDF: 13252215.1/60

In: 0.021 $\pm$ 0.000 χ^2 /NDF:8466449.3/50

Out: 0.021 $\pm$ 0.000 χ^2 /NDF:9761350.7/57

All: 0.021 $\pm$ 0.000 χ^2 /NDF: 18233114.1/108

yield_bpm4acY_mean vs Slug, Sign Corrected



Right In: 0.747 $\pm$ 0.000 χ^2 /NDF: 3479864406.6/27

Left Out: 0.739 $\pm$ 0.000 χ^2 /NDF:333013236.5/24

Right Out: 0.756 $\pm$ 0.000 χ^2 /NDF: 3842208292.3/32

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

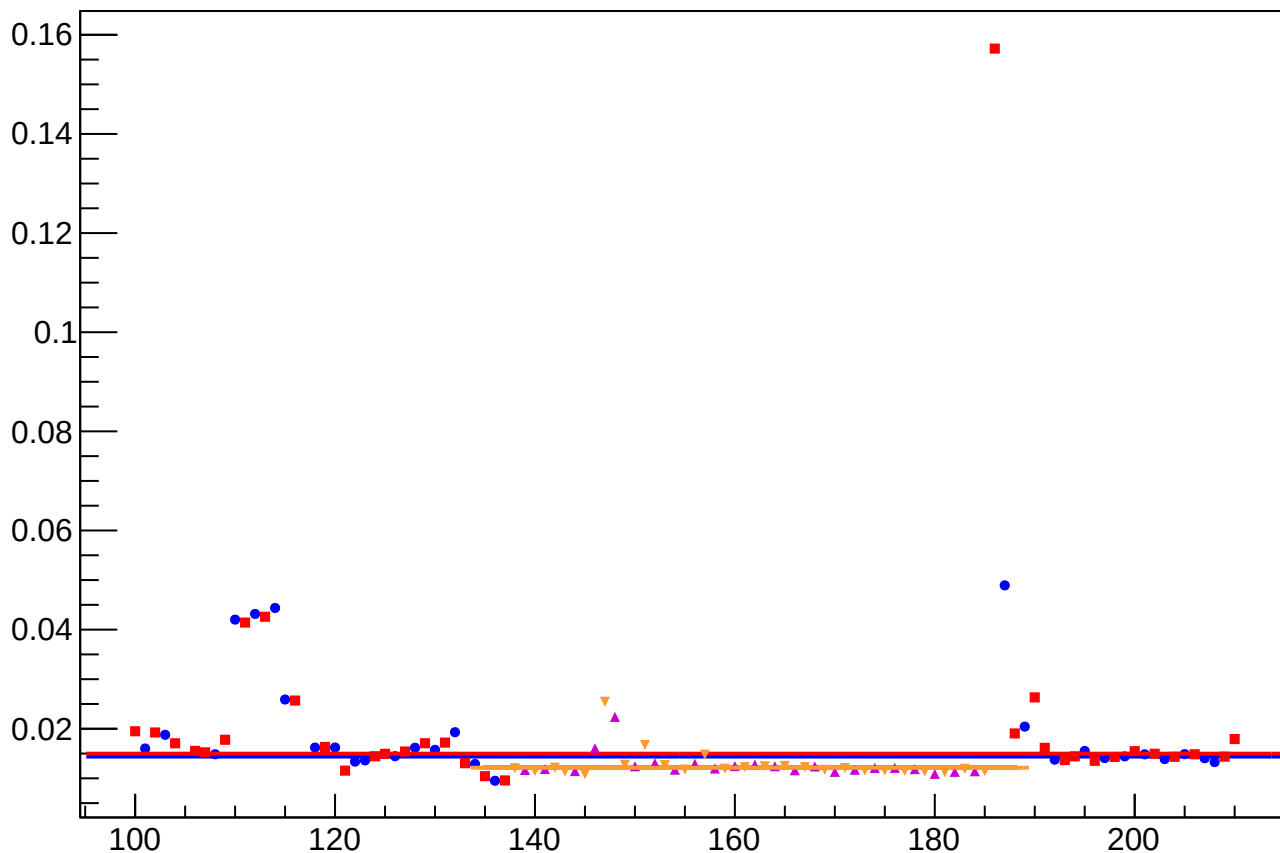
Right: 0.751 $\pm$ 0.000 χ^2 /NDF: 7324431830.6/60

In: 0.738 $\pm$ 0.000 χ^2 /NDF:4057123421.1/50

Out: 0.745 $\pm$ 0.000 χ^2 /NDF:4187100140.3/57

All: 0.742 $\pm$ 0.000 χ^2 /NDF: 8248151240.7/10

yield_bpm4acY_rms vs Slug, Sign Corrected



Right In: 0.014 $\pm$ 0.000 χ^2 /NDF: 1650610.7/27

Left Out: 0.012 $\pm$ 0.000 χ^2 /NDF:637986.2/24

Right Out: 0.015 $\pm$ 0.000 χ^2 /NDF: 2121869.7/32

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

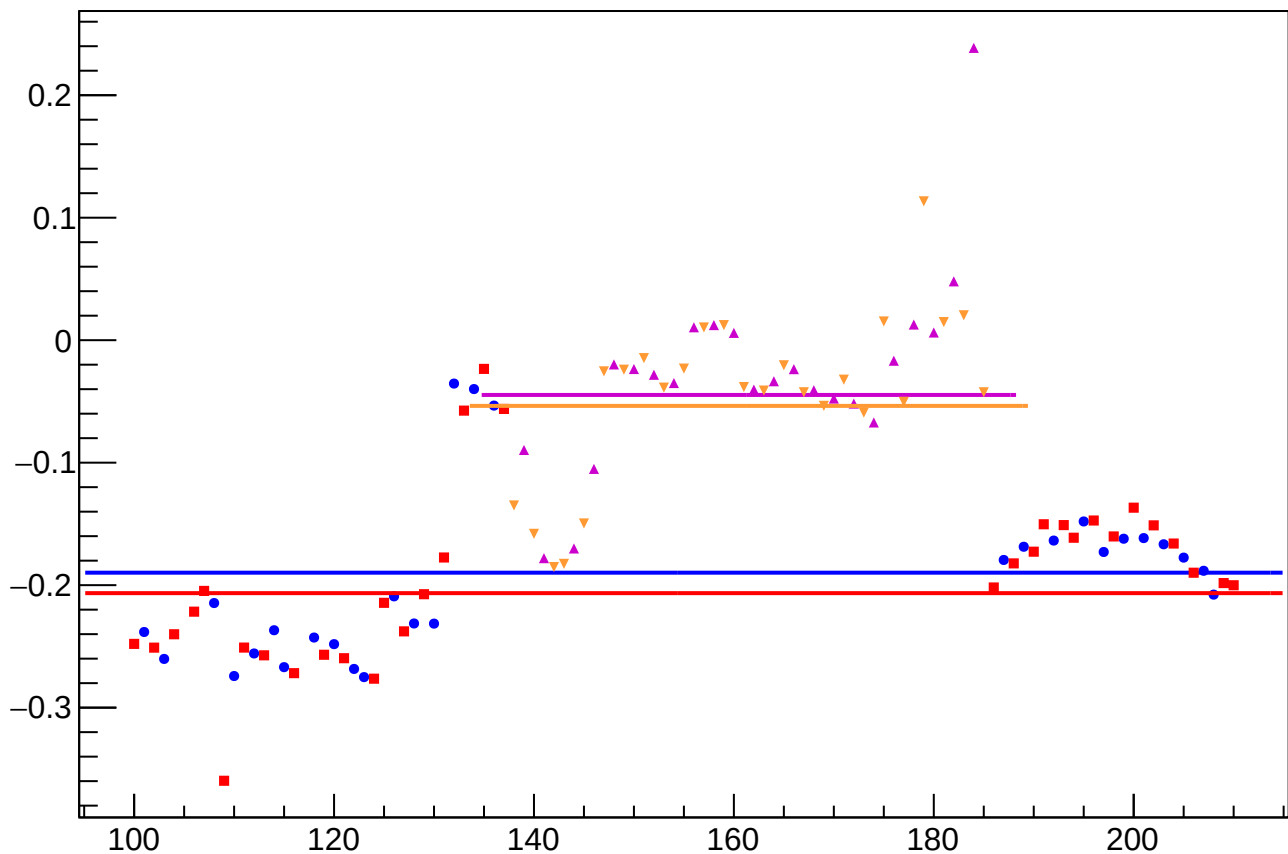
Right: 0.015 $\pm$ 0.000 χ^2 /NDF: 3793686.2/60

In: 0.013 $\pm$ 0.000 χ^2 /NDF:2522517.7/50

Out: 0.013 $\pm$ 0.000 χ^2 /NDF:3436813.9/57

All: 0.013 $\pm$ 0.000 χ^2 /NDF: 5963937.9/108

yield_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -0.190 ± 0.000 $\chi^2/\text{NDF}: 107260727.9/27$

Left Out: -0.054 ± 0.000 $\chi^2/\text{NDF}: 167834173.6/24$

Right Out: -0.207 ± 0.000 $\chi^2/\text{NDF}: 114715424.8/32$

Left In: -0.045 ± 0.000 $\chi^2/\text{NDF}: 127192425.2/22$

Left: -0.049 ± 0.000 $\chi^2/\text{NDF}: 296566503.6/47$

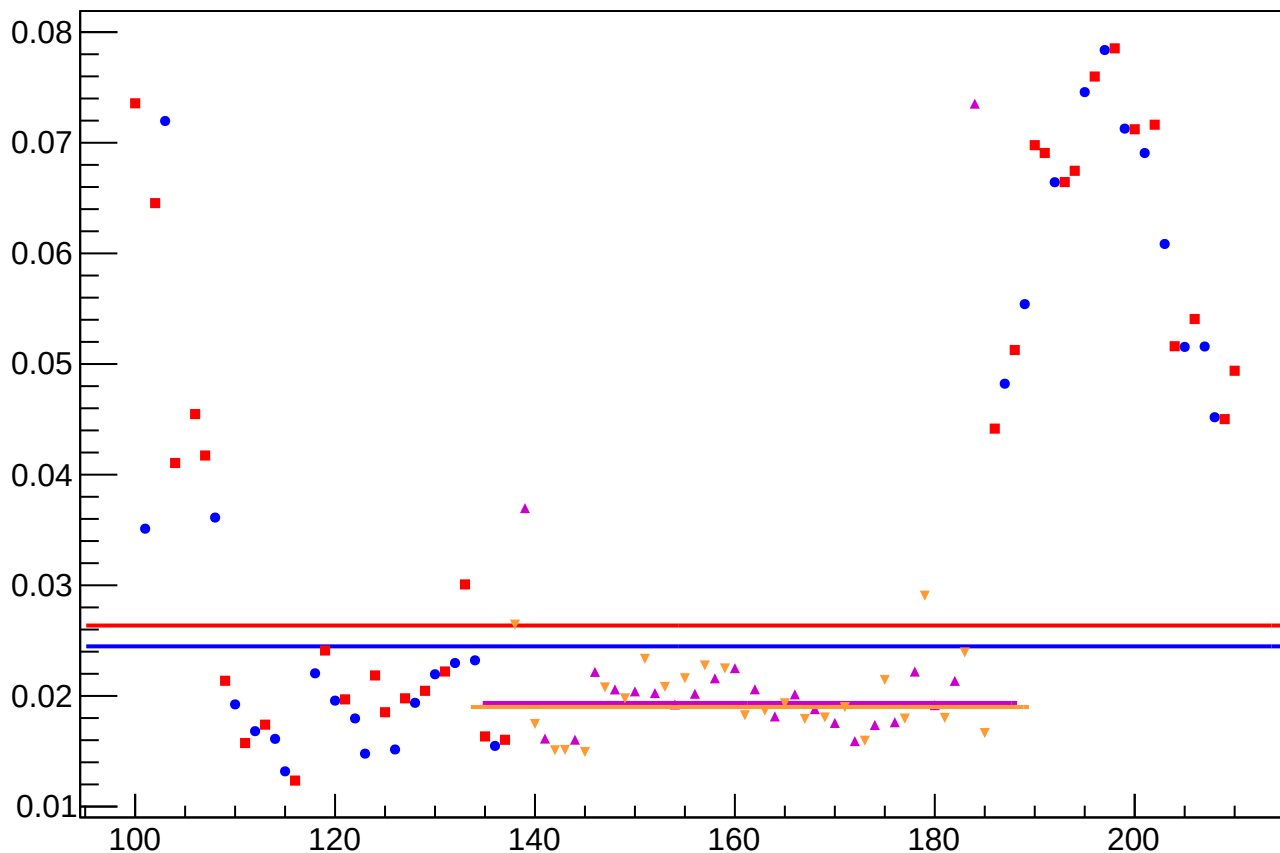
Right: -0.198 ± 0.000 $\chi^2/\text{NDF}: 224162321.3/60$

In: -0.088 ± 0.000 $\chi^2/\text{NDF}: 466490791.2/50$

Out: -0.096 ± 0.000 $\chi^2/\text{NDF}: 546085300.6/57$

All: -0.092 ± 0.000 $\chi^2/\text{NDF}: 1014414012.9/1$

yield_bpm4ecX_rms vs Slug, Sign Corrected



Right In: 0.024+/-0.000 χ^2/NDF : 7433472.8/27

Left Out: 0.019+/-0.000 χ^2/NDF : 700229.7/24

Right Out: 0.026+/-0.000 χ^2/NDF : 8337149.0/32

Left In: 0.019+/-0.000 χ^2/NDF : 858216.8/22

Left: 0.019+/-0.000 χ^2/NDF : 1563699.1/47

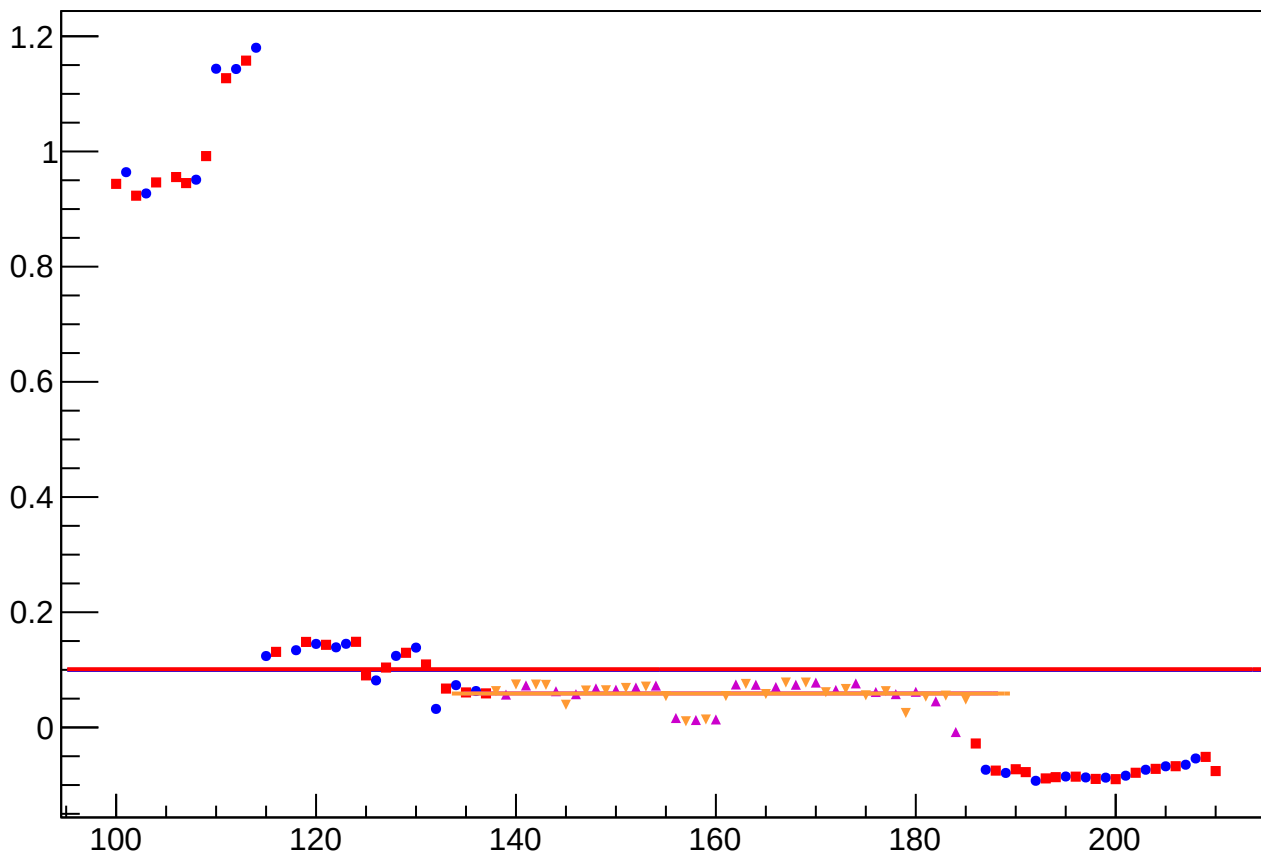
Right: 0.025+/-0.000 χ^2/NDF : 15826244.1/60

In: 0.021+/-0.000 χ^2/NDF : 8868459.2/50

Out: 0.021+/-0.000 χ^2/NDF : 10261772.3/57

All: 0.021+/-0.000 χ^2/NDF : 19131583.8/108

yield_bpm4ecY_mean vs Slug, Sign Corrected



Right In: 0.100+/-0.000

χ^2/NDF : 8093261863.7/27

Left: 0.059+/-0.000

χ^2/NDF : 105343775.2/47

Left Out: 0.059+/-0.000

χ^2/NDF : 46821236.8/24

Right: 0.100+/-0.000

χ^2/NDF : 17261284188.8/60

Right Out: 0.101+/-0.000

χ^2/NDF : 9167960990.6/32

In: 0.074+/-0.000

χ^2/NDF : 8236832098.9/50

Out: 0.075+/-0.000

χ^2/NDF : 9310555029.3/57

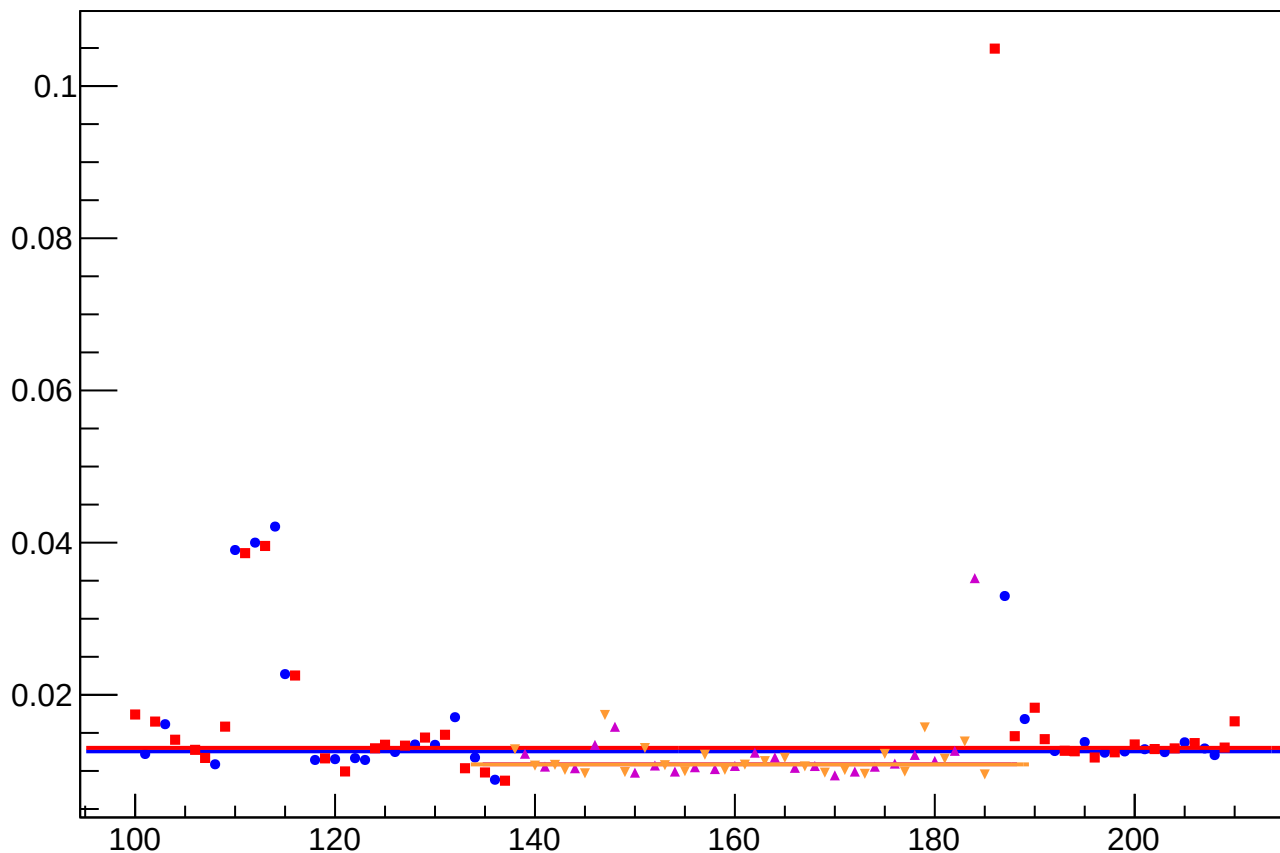
Left In: 0.059+/-0.000

χ^2/NDF : 58518655.0/22

All: 0.075+/-0.000

χ^2/NDF : 17547390424.8/1

yield_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 1490648.8/27

Left Out: 0.011+/-0.000 χ^2/NDF : 604787.9/24

Right Out: 0.013+/-0.000 χ^2/NDF : 1958884.2/32

Left In: 0.011+/-0.000 χ^2/NDF : 530077.5/22

Left: 0.011+/-0.000 χ^2/NDF : 1134994.9/47

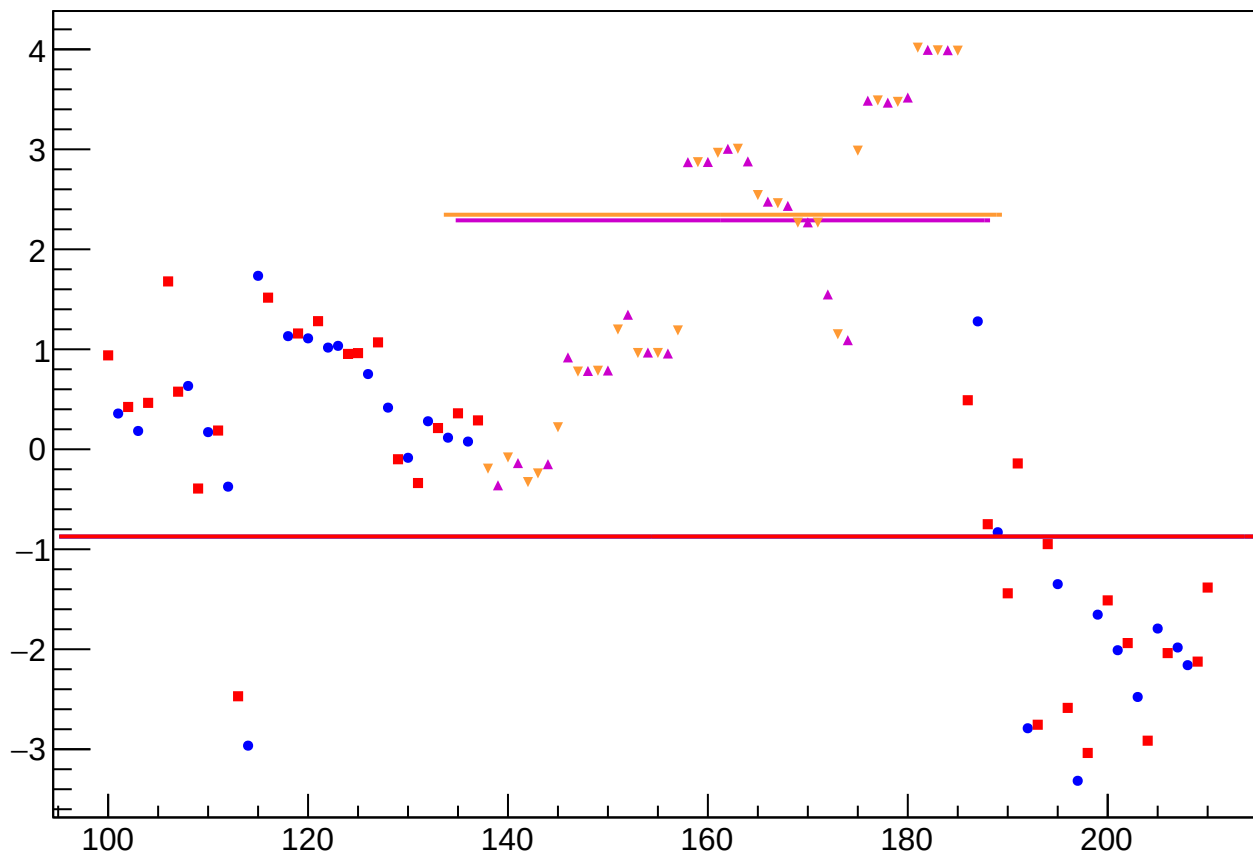
Right: 0.013+/-0.000 χ^2/NDF : 3466752.2/60

In: 0.012+/-0.000 χ^2/NDF : 2312520.6/50

Out: 0.012+/-0.000 χ^2/NDF : 3070752.6/57

All: 0.012+/-0.000 χ^2/NDF : 5387953.8/108

yield_bpm1X_mean vs Slug, Sign Corrected



Right In: -0.873 ± 0.000 $\chi^2/\text{NDF}: 6762294179.2/27$

Left Out: 2.346 ± 0.000 $\chi^2/\text{NDF}: 63481331015.4/24$

Right Out: -0.872 ± 0.000 $\chi^2/\text{NDF}: 8167290467.7/32$

Left In: 2.290 ± 0.000 $\chi^2/\text{NDF}: 60875537647.3/22$

Left: 2.318 ± 0.000 $\chi^2/\text{NDF}: 124438674298.4/47$

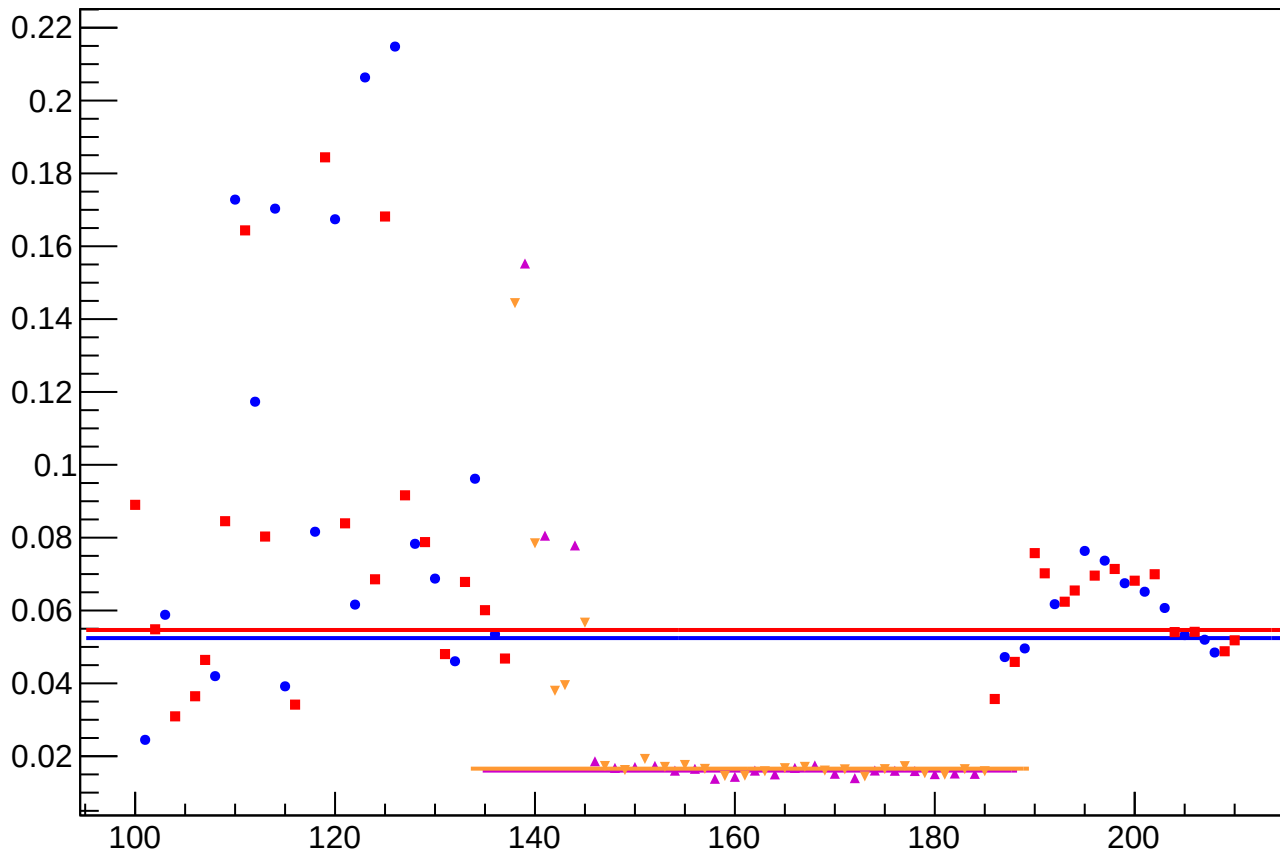
Right: -0.873 ± 0.000 $\chi^2/\text{NDF}: 14929588645.9/60$

In: 2.072 ± 0.000 $\chi^2/\text{NDF}: 103342437621.5/50$

Out: 2.098 ± 0.000 $\chi^2/\text{NDF}: 112233657991.0/57$

All: 2.085 ± 0.000 $\chi^2/\text{NDF}: 215595715191.5$

yield_bpm1X_rms vs Slug, Sign Corrected



Right In: 0.052 $\pm$ 0.000 χ^2 /NDF: 3508264.3/27

Left Out: 0.017 $\pm$ 0.000 χ^2 /NDF:2621162.1/24

Right Out: 0.055 $\pm$ 0.000 χ^2 /NDF: 2863691.2/32

Left In: 0.016 $\pm$ 0.000 χ^2 /NDF:2394376.5/22

Left: 0.016 $\pm$ 0.000 χ^2 /NDF: 5030430.5/47

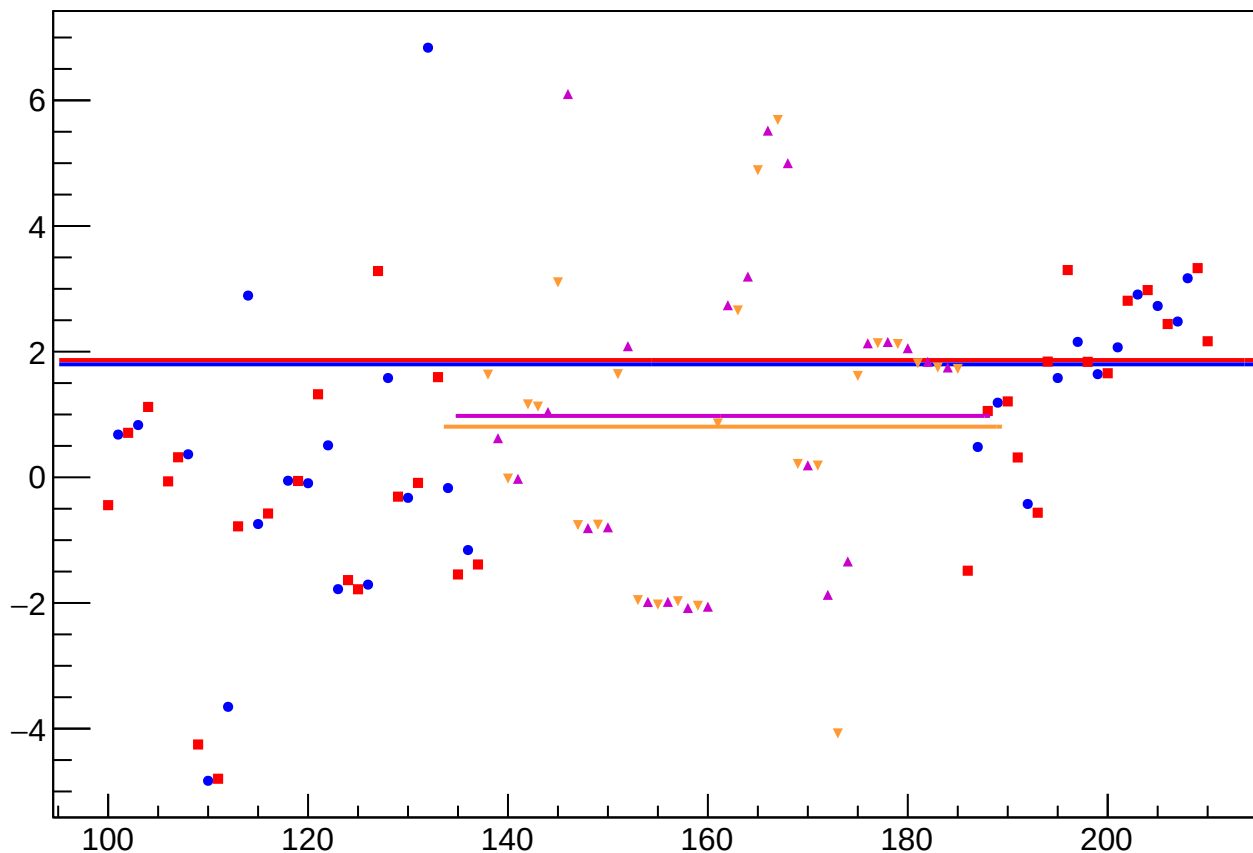
Right: 0.054 $\pm$ 0.000 χ^2 /NDF: 6391901.4/60

In: 0.019 $\pm$ 0.000 χ^2 /NDF:15350985.2/50

Out: 0.020 $\pm$ 0.000 χ^2 /NDF:16844617.1/57

All: 0.019 $\pm$ 0.000 χ^2 /NDF: 32246946.1/108

yield_bpm1Y_mean vs Slug, Sign Corrected



Right In: 1.798+/-0.000

χ^2/NDF : 36949959003.1/27

Left: 0.892+/-0.000

χ^2/NDF : 1077036497291.8/47

Left Out: 0.806+/-0.000

χ^2/NDF : 507578952196.2/24

Right: 1.834+/-0.000

χ^2/NDF : 76585003866.3/60

Right Out: 1.866+/-0.000

χ^2/NDF : 39577199129.8/32

In: 1.157+/-0.000

χ^2/NDF : 617688669289.8/50

Out: 1.056+/-0.000

χ^2/NDF : 569658078265.3/57

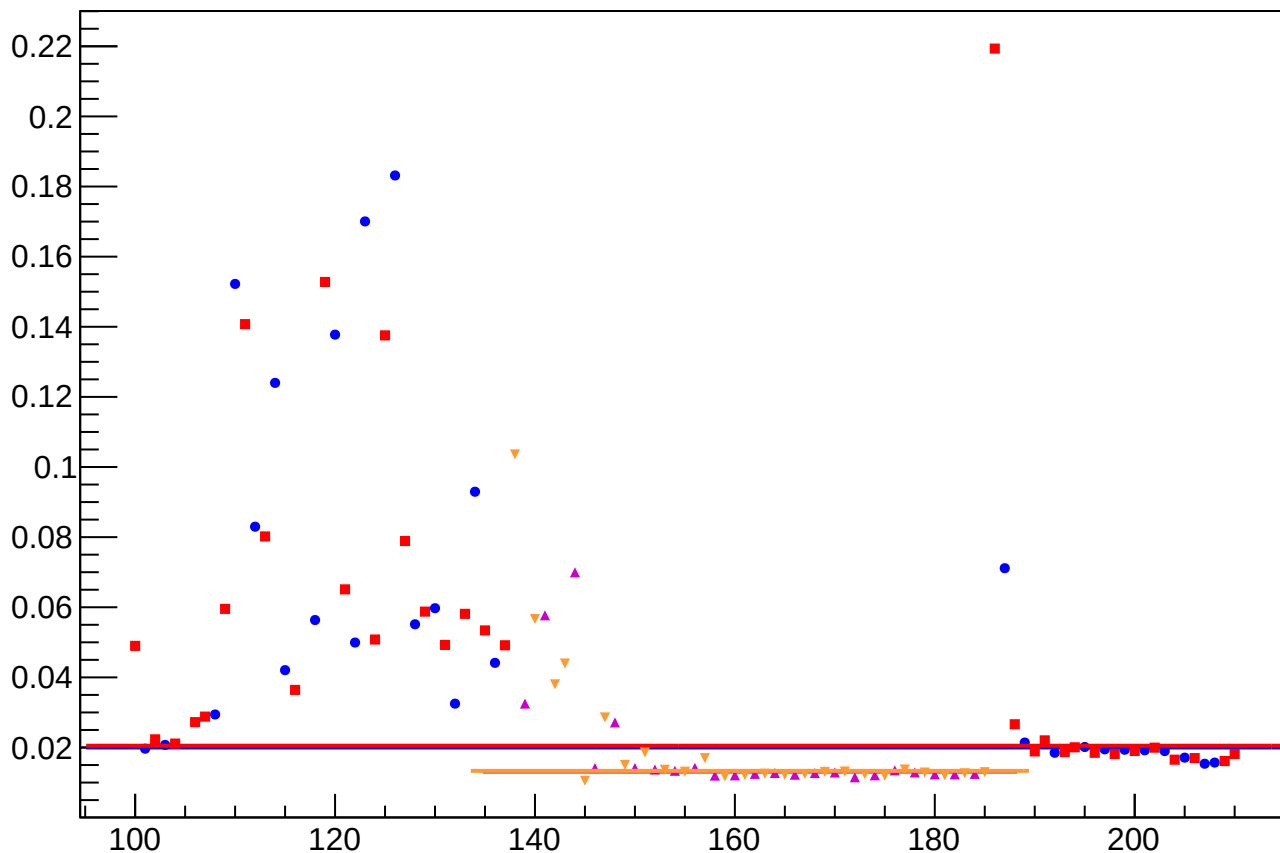
Left In: 0.977+/-0.000

χ^2/NDF : 568209676597.4/22

All: 1.106+/-0.000

χ^2/NDF : 1187904419429.

yield_bpm1Y_rms vs Slug, Sign Corrected



Right In: 0.020+/-0.000 χ^2/NDF : 4148797.9/27

Left Out: 0.013+/-0.000 χ^2/NDF :2829753.9/24

Right Out: 0.021+/-0.000 χ^2/NDF : 5166965.9/32

Left In: 0.013+/-0.000 χ^2/NDF :1946693.6/22

Left: 0.013+/-0.000 χ^2/NDF : 4779900.3/47

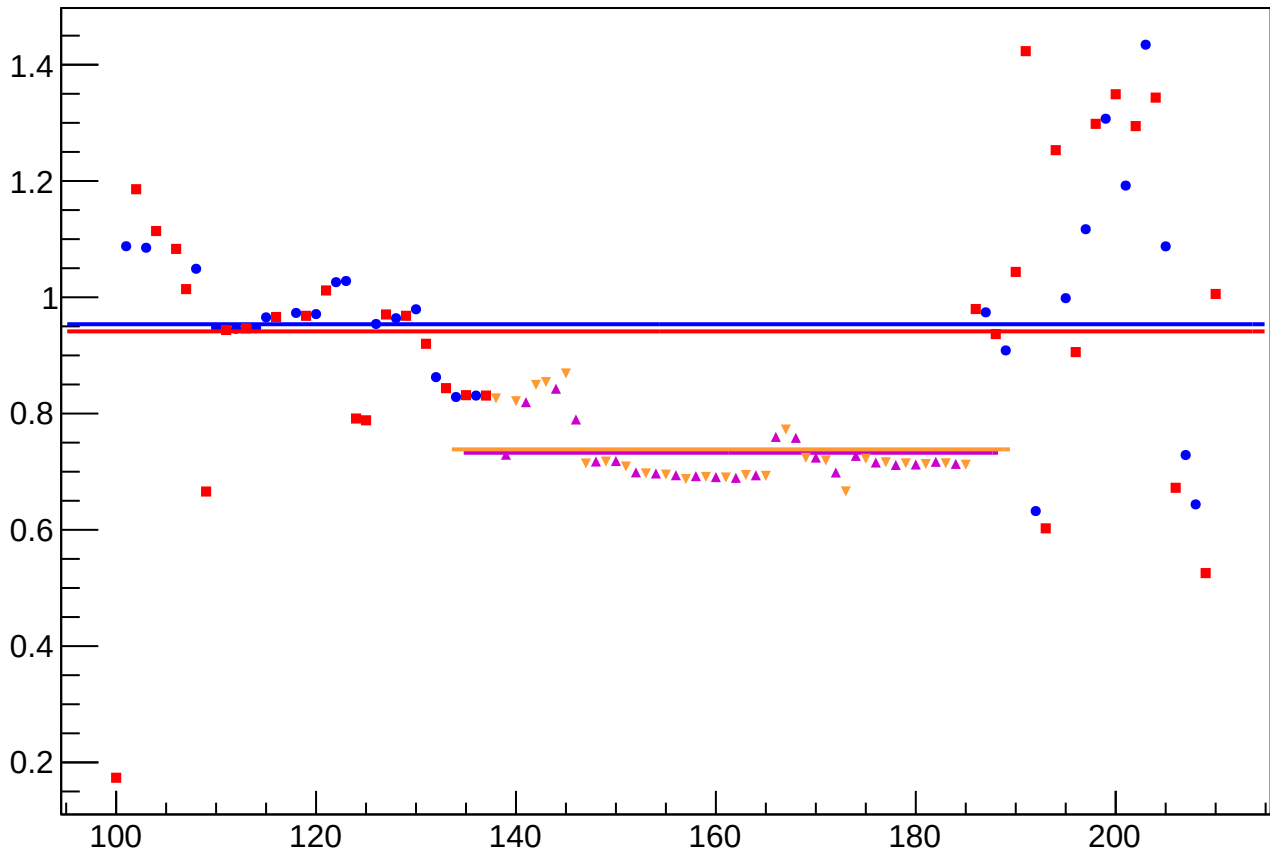
Right: 0.020+/-0.000 χ^2/NDF : 9321745.2/60

In: 0.015+/-0.000 χ^2/NDF :7856441.1/50

Out: 0.015+/-0.000 χ^2/NDF :10054123.7/57

All: 0.015+/-0.000 χ^2/NDF : 17927156.1/108

yield_bpm11X_mean vs Slug, Sign Corrected



Right In: 0.954+/-0.000 χ^2/NDF : 673420113.3/27

Left Out: 0.738+/-0.000 χ^2/NDF : 310195180.4/24

Right Out: 0.941+/-0.000 χ^2/NDF : 1131407400.8/32

Left In: 0.733+/-0.000 χ^2/NDF : 170102394.7/22

Left: 0.736+/-0.000 χ^2/NDF : 481708989.2/47

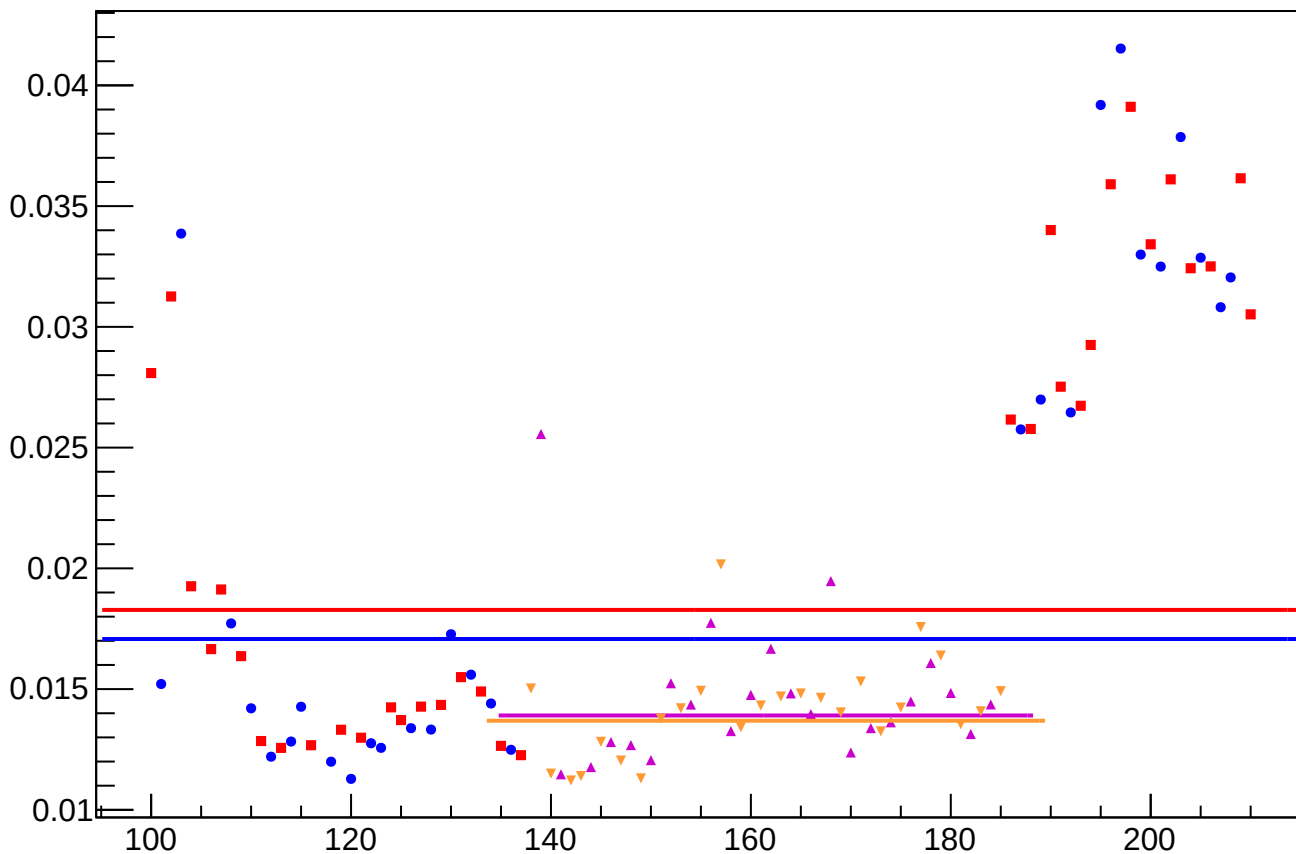
Right: 0.947+/-0.000 χ^2/NDF : 1807703856.7/60

In: 0.804+/-0.000 χ^2/NDF : 2097697449.8/50

Out: 0.801+/-0.000 χ^2/NDF : 2532724425.2/57

All: 0.802+/-0.000 χ^2/NDF : 4630942093.4/10

yield_bpm11X_rms vs Slug, Sign Corrected



Right In: 0.017 $\pm$ 0.000 χ^2 /NDF: 4596193.1/27

Left Out: 0.014 $\pm$ 0.000 χ^2 /NDF:528480.6/24

Right Out: 0.018 $\pm$ 0.000 χ^2 /NDF: 4528802.7/32

Left In: 0.014 $\pm$ 0.000 χ^2 /NDF:768161.9/22

Left: 0.014 $\pm$ 0.000 χ^2 /NDF: 1300553.4/47

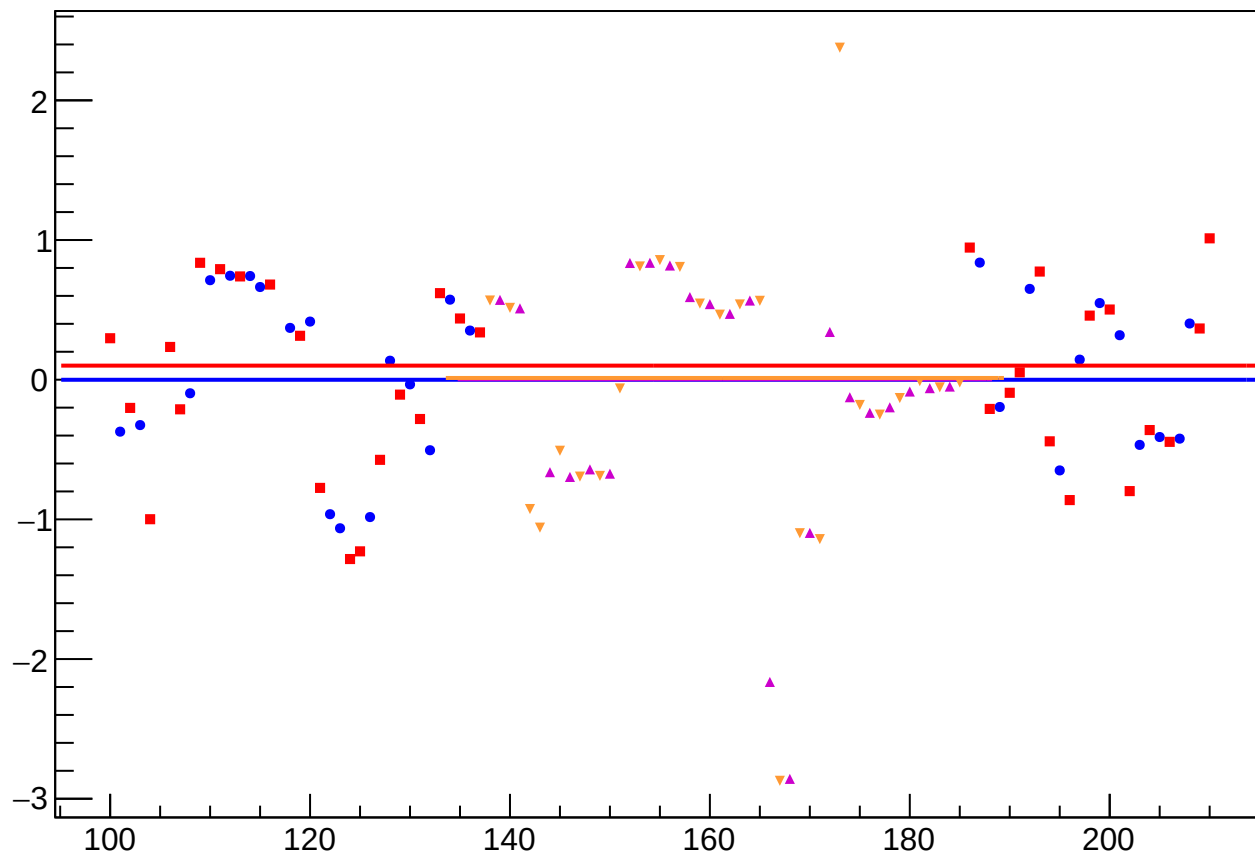
Right: 0.018 $\pm$ 0.000 χ^2 /NDF: 9180188.5/60

In: 0.015 $\pm$ 0.000 χ^2 /NDF:5879045.8/50

Out: 0.015 $\pm$ 0.000 χ^2 /NDF:6173020.4/57

All: 0.015 $\pm$ 0.000 χ^2 /NDF: 12055706.9/108

yield_bpm11Y_mean vs Slug, Sign Corrected



Right In: -0.001+/-0.000

χ^2/NDF : 20234740039.1/27

Left: 0.008+/-0.000 χ^2/NDF : 175214894006.3/47

Right: 0.053+/-0.000 χ^2/NDF : 58516995631.6/60

Left Out: 0.012+/-0.000

χ^2/NDF : 96383858927.1/24

In: 0.001+/-0.000 χ^2/NDF : 99061874303.7/50

Right Out: 0.101+/-0.000

χ^2/NDF : 37825906228.4/32

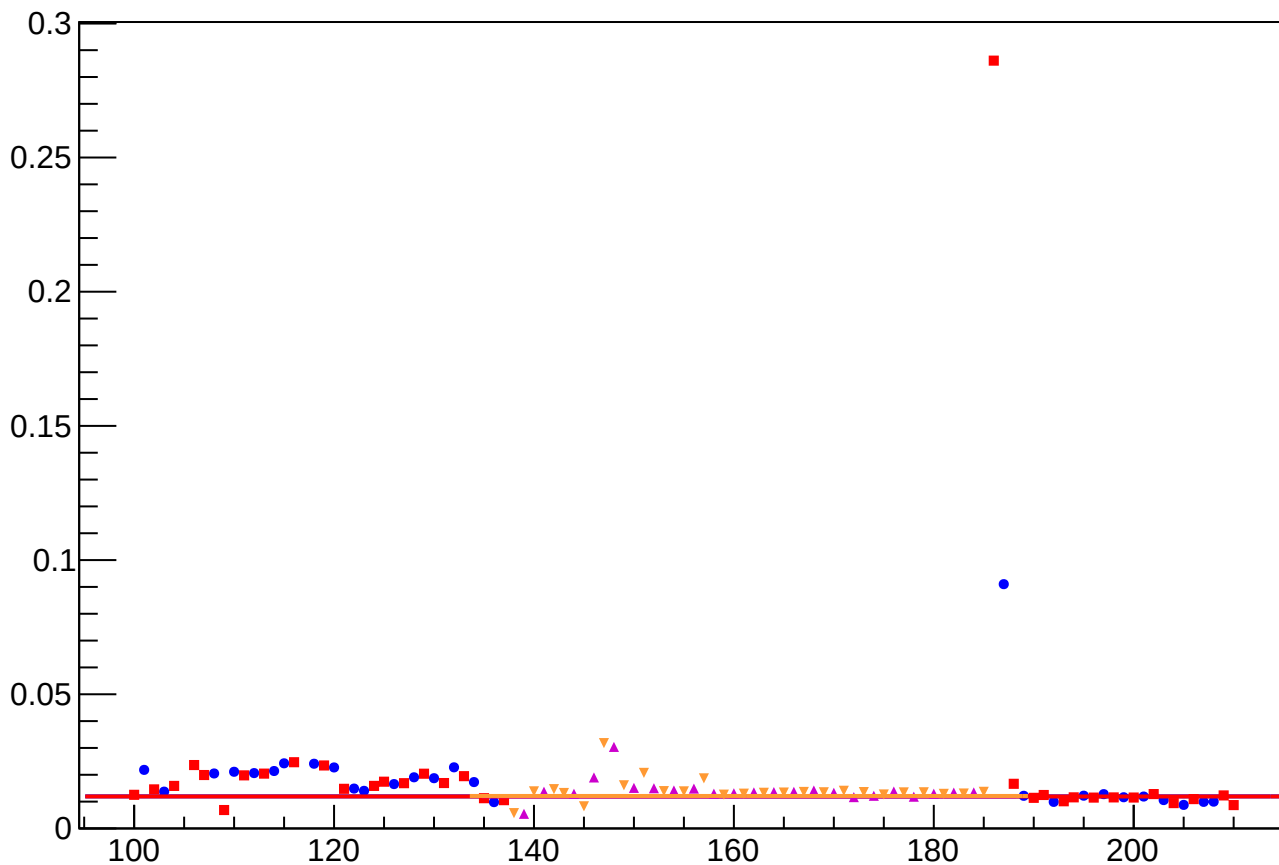
Out: 0.053+/-0.000 χ^2/NDF : 134603937986.5/57

Left In: 0.003+/-0.000

χ^2/NDF : 78826489573.0/22

All: 0.028+/-0.000 χ^2/NDF : 233927986380.9

yield_bpm11Y_rms vs Slug, Sign Corrected



Right In: 0.012+/-0.000 χ^2/NDF : 2362321.9/27

Left Out: 0.012+/-0.000 χ^2/NDF :3105238.9/24

Right Out: 0.012+/-0.000 χ^2/NDF : 2874048.4/32

Left In: 0.012+/-0.000 χ^2/NDF :3003502.9/22

Left: 0.012+/-0.000 χ^2/NDF : 6110012.2/47

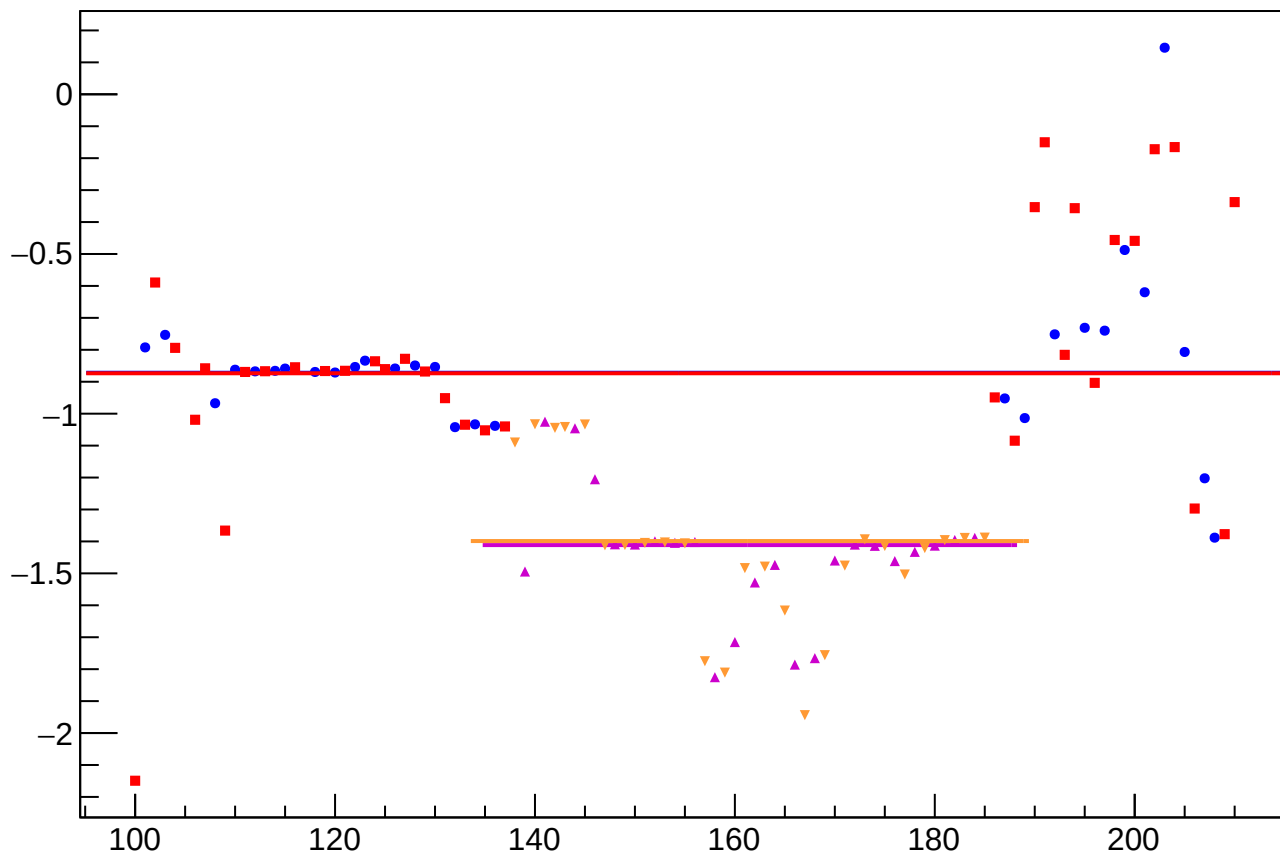
Right: 0.012+/-0.000 χ^2/NDF : 5236490.8/60

In: 0.012+/-0.000 χ^2/NDF :5365988.8/50

Out: 0.012+/-0.000 χ^2/NDF :5982847.6/57

All: 0.012+/-0.000 χ^2/NDF : 11349164.7/108

yield_bpm12X_mean vs Slug, Sign Corrected



Right In: -0.872 ± 0.000 $\chi^2/\text{NDF}: 211394767.0/27$

Left Out: -1.399 ± 0.000 $\chi^2/\text{NDF}: 738251911.1/24$

Right Out: -0.874 ± 0.000 $\chi^2/\text{NDF}: 449078954.7/32$

Left In: -1.411 ± 0.000 $\chi^2/\text{NDF}: 512547995.0/22$

Left: -1.405 ± 0.000 $\chi^2/\text{NDF}: 1251791467.1/47$

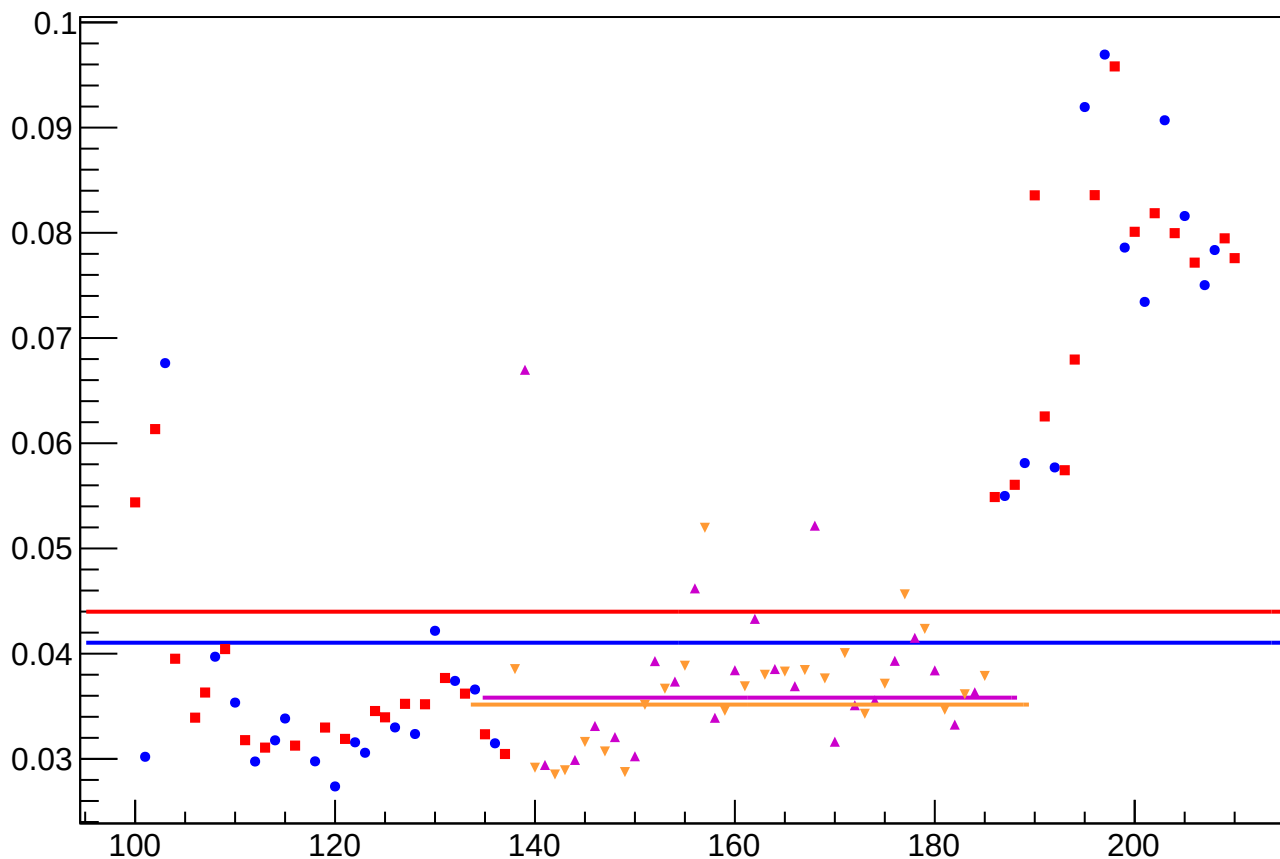
Right: -0.873 ± 0.000 $\chi^2/\text{NDF}: 660482885.0/60$

In: -1.218 ± 0.000 $\chi^2/\text{NDF}: 1967218941.7/50$

Out: -1.219 ± 0.000 $\chi^2/\text{NDF}: 2412551102.6/57$

All: -1.218 ± 0.000 $\chi^2/\text{NDF}: 4379779922.0/1$

yield_bpm12X_rms vs Slug, Sign Corrected



Right In: 0.041+/-0.000 χ^2/NDF : 4283912.9/27

Left Out: 0.035+/-0.000 χ^2/NDF : 595219.5/24

Right Out: 0.044+/-0.000 χ^2/NDF : 4042361.7/32

Left In: 0.036+/-0.000 χ^2/NDF : 864147.6/22

Left: 0.035+/-0.000 χ^2/NDF : 1464751.5/47

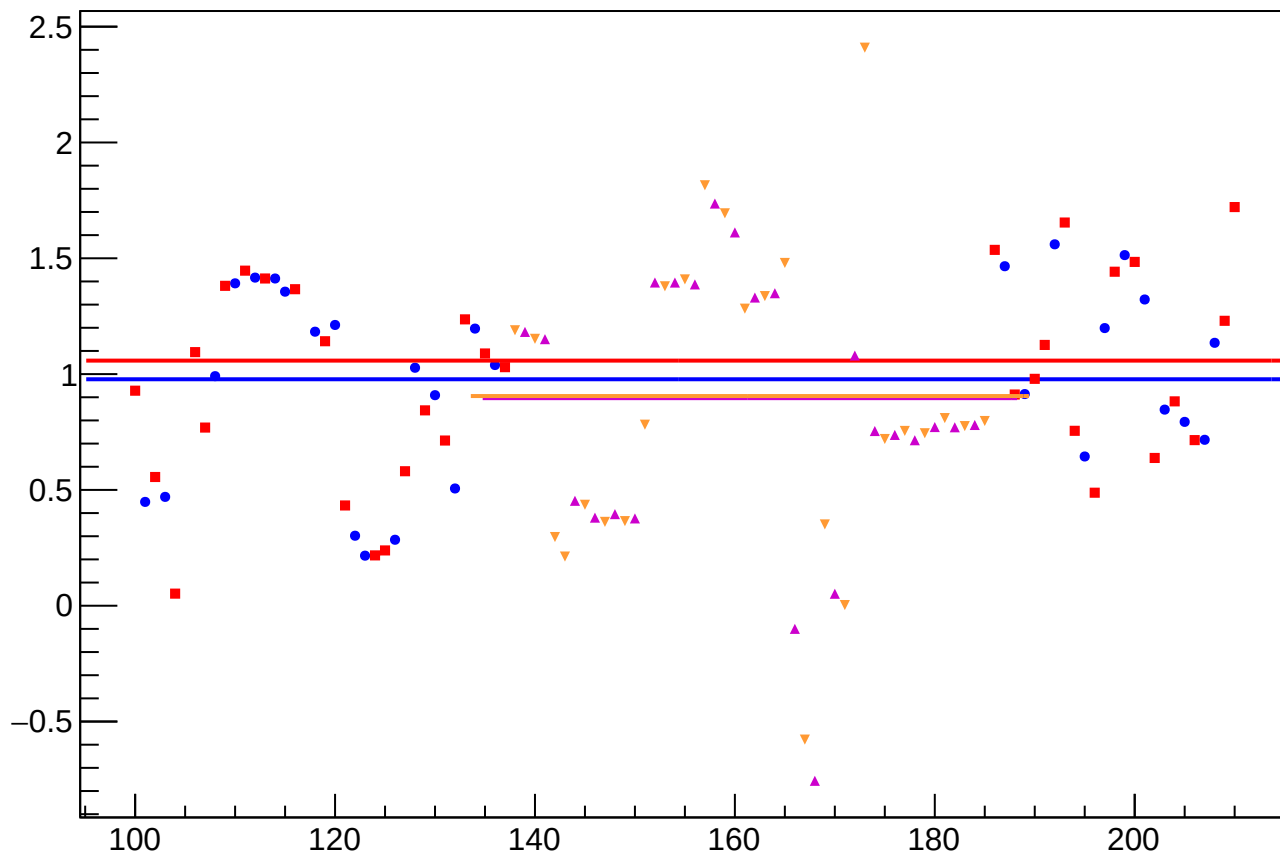
Right: 0.043+/-0.000 χ^2/NDF : 8384572.7/60

In: 0.038+/-0.000 χ^2/NDF : 5380825.1/50

Out: 0.038+/-0.000 χ^2/NDF : 5329637.4/57

All: 0.038+/-0.000 χ^2/NDF : 10715092.3/108

yield_bpm12Y_mean vs Slug, Sign Corrected



Right In: 0.978 $\pm$ 0.000

χ^2 /NDF: 22898691129.0/27

Left: 0.901 $\pm$ 0.000 χ^2 /NDF: 150868618084.6/47

Right: 1.019 $\pm$ 0.000 χ^2 /NDF: 61671388347.9/60

Left Out: 0.905 $\pm$ 0.000

χ^2 /NDF: 84265726513.8/24

In: 0.938 $\pm$ 0.000 χ^2 /NDF: 90188919593.5/50

Right Out: 1.058 $\pm$ 0.000 χ^2 /NDF: 38067403454.4/32

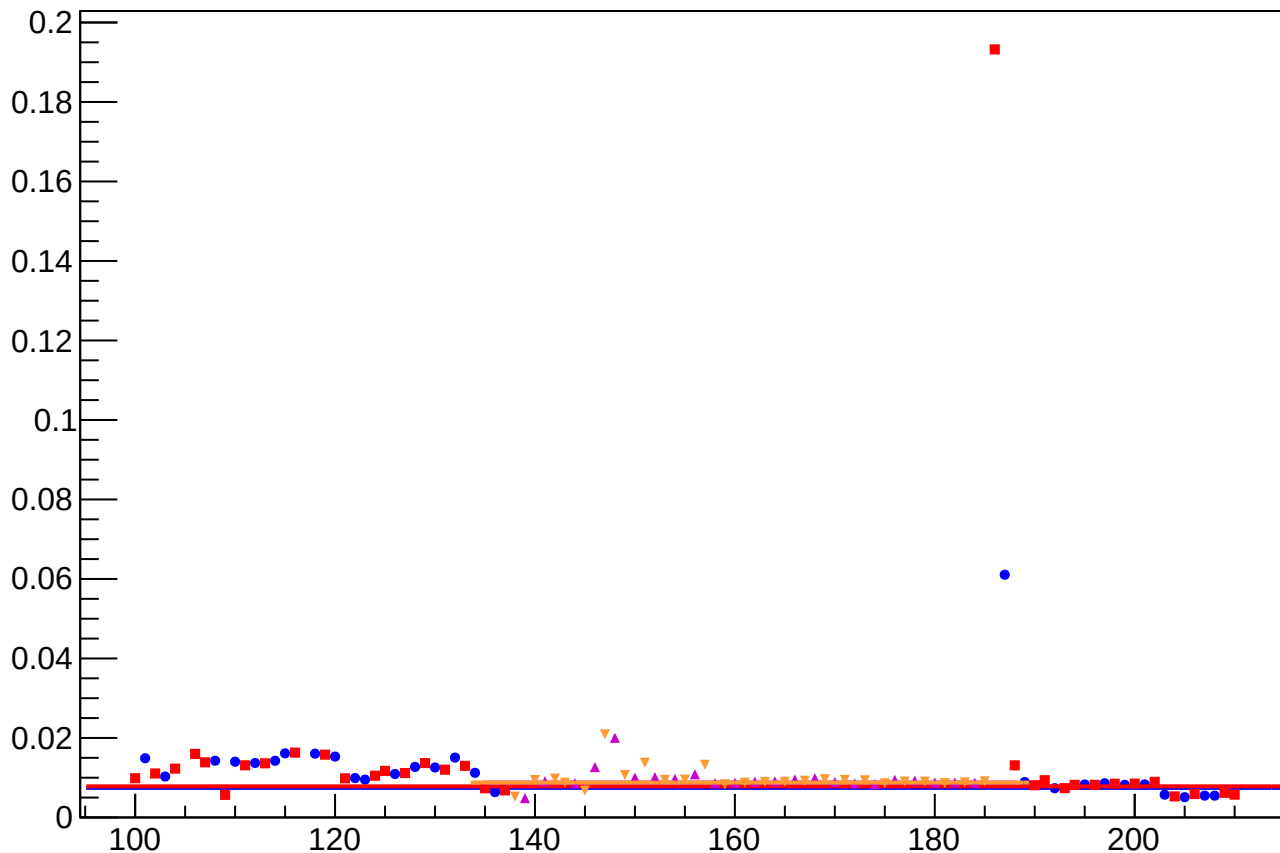
Out: 0.982 $\pm$ 0.000 χ^2 /NDF: 124903811672.4/57

Left In: 0.896 $\pm$ 0.000

χ^2 /NDF: 66594200889.6/22

All: 0.960 $\pm$ 0.000 χ^2 /NDF: 215511075670.9

yield_bpm12Y_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 3206048.0/27

Left Out: 0.009+/-0.000 χ^2/NDF :1697568.1/24

Right Out: 0.008+/-0.000 χ^2/NDF : 3438684.6/32

Left In: 0.009+/-0.000 χ^2/NDF :1607939.0/22

Left: 0.009+/-0.000 χ^2/NDF : 3305514.2/47

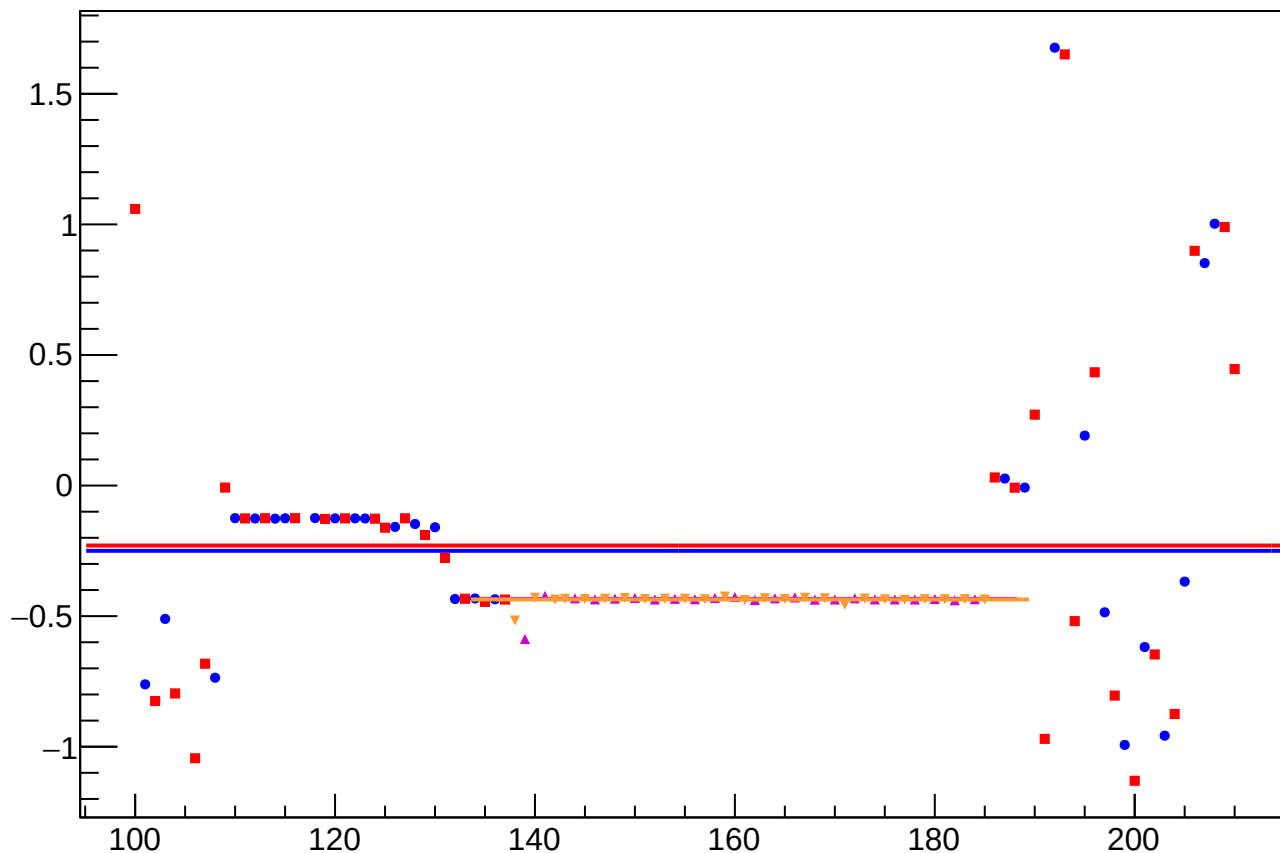
Right: 0.008+/-0.000 χ^2/NDF : 6677684.2/60

In: 0.008+/-0.000 χ^2/NDF :5186130.7/50

Out: 0.008+/-0.000 χ^2/NDF :5334168.6/57

All: 0.008+/-0.000 χ^2/NDF : 10539410.1/108

yield_bpm16X_mean vs Slug, Sign Corrected



Right In: -0.250+/-0.000

χ^2/NDF : 3168139372.1/27

Left: -0.435+/-0.000

χ^2/NDF : 53122221.7/47

Left Out: -0.436+/-0.000

χ^2/NDF : 28774660.0/24

Right: -0.240+/-0.000

χ^2/NDF : 6592079571.1/60

Right Out: -0.230+/-0.000

χ^2/NDF : 3417086381.9/32

In: -0.400+/-0.000

χ^2/NDF : 4145702019.4/50

Out: -0.401+/-0.000

χ^2/NDF : 4613650827.0/57

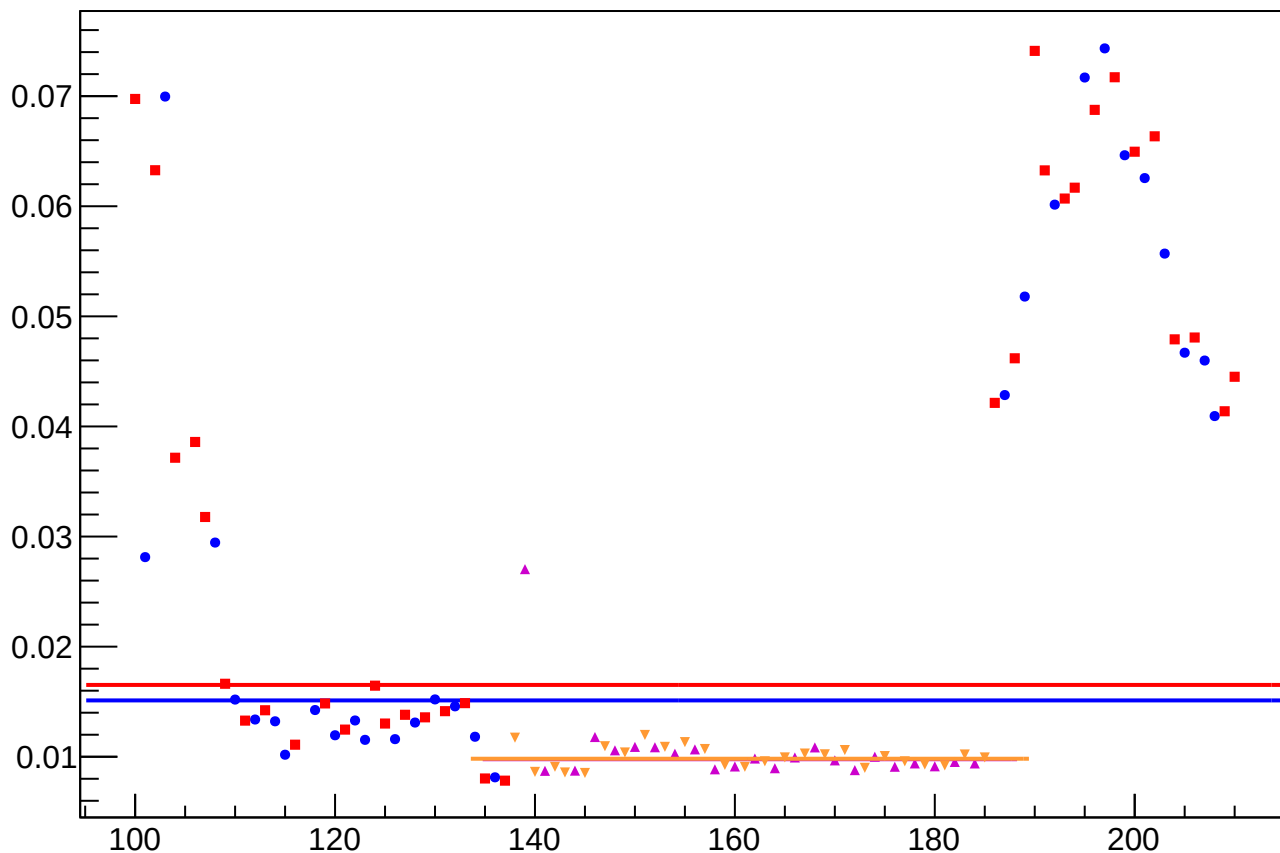
Left In: -0.434+/-0.000

χ^2/NDF : 23984173.0/22

All: -0.401+/-0.000

χ^2/NDF : 8759501483.8/1

yield_bpm16X_rms vs Slug, Sign Corrected



Right In: 0.015 $\pm$ 0.000 χ^2/NDF : 10203407.9/27

Left Out: 0.010 $\pm$ 0.000 χ^2/NDF :269242.6/24

Right Out: 0.017 $\pm$ 0.000 χ^2/NDF : 11653777.7/32

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

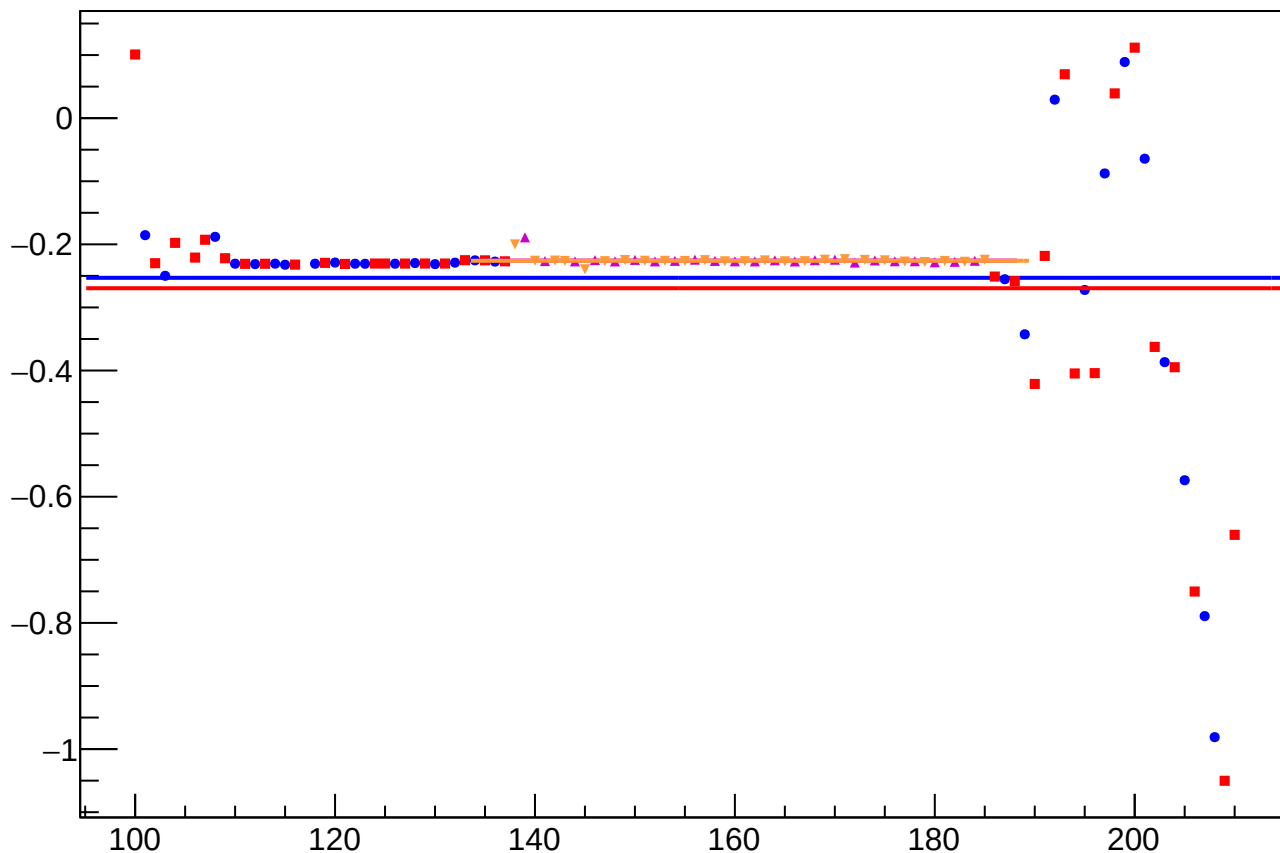
Right: 0.016 $\pm$ 0.000 χ^2/NDF : 21923789.2/60

In: 0.011 $\pm$ 0.000 χ^2/NDF :12554639.8/50

Out: 0.011 $\pm$ 0.000 χ^2/NDF :14382688.3/57

All: 0.011 $\pm$ 0.000 χ^2/NDF : 26944368.3/108

yield_bpm16Y_mean vs Slug, Sign Corrected



Right In: -0.253+/-0.000

χ^2/NDF : 22442082989.6/27

Left Out: -0.226+/-0.000

χ^2/NDF : 21205667.4/24

Right Out: -0.270+/-0.000

χ^2/NDF : 25183082549.0/32

Left In: -0.226+/-0.000

χ^2/NDF : 15245251.1/22

Left: -0.226+/-0.000

χ^2/NDF : 36480793.2/47

Right: -0.262+/-0.000

χ^2/NDF : 47690516542.3/60

In: -0.238+/-0.000

χ^2/NDF : 22655625717.6/50

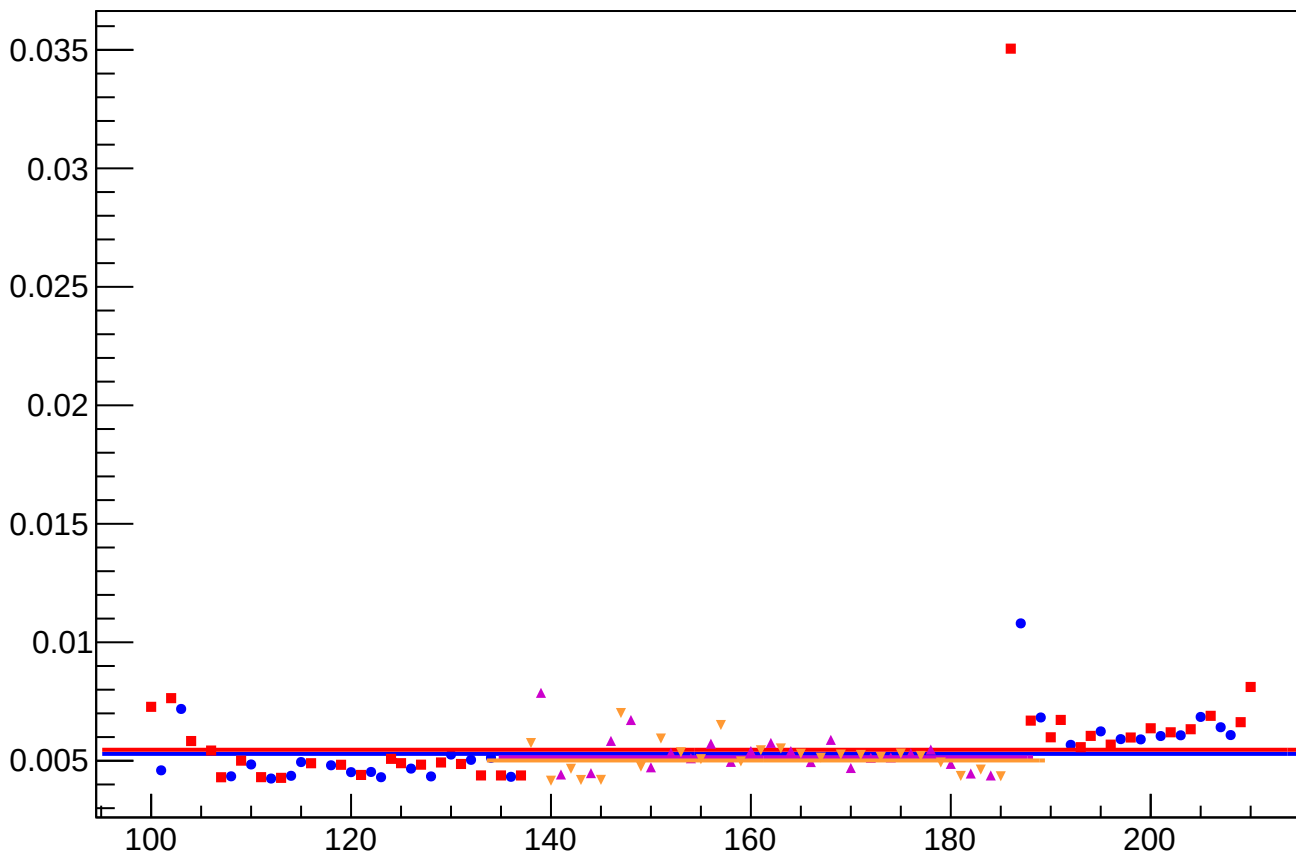
Out: -0.244+/-0.000

χ^2/NDF : 25747804852.0/57

All: -0.241+/-0.000

χ^2/NDF : 48429036678.4/100

yield_bpm16Y_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 776653.8/27

Left Out: 0.005+/-0.000 χ^2/NDF : 530632.6/24

Right Out: 0.005+/-0.000 χ^2/NDF : 1445939.2/32

Left In: 0.005+/-0.000 χ^2/NDF : 493107.7/22

Left: 0.005+/-0.000 χ^2/NDF : 1035156.6/47

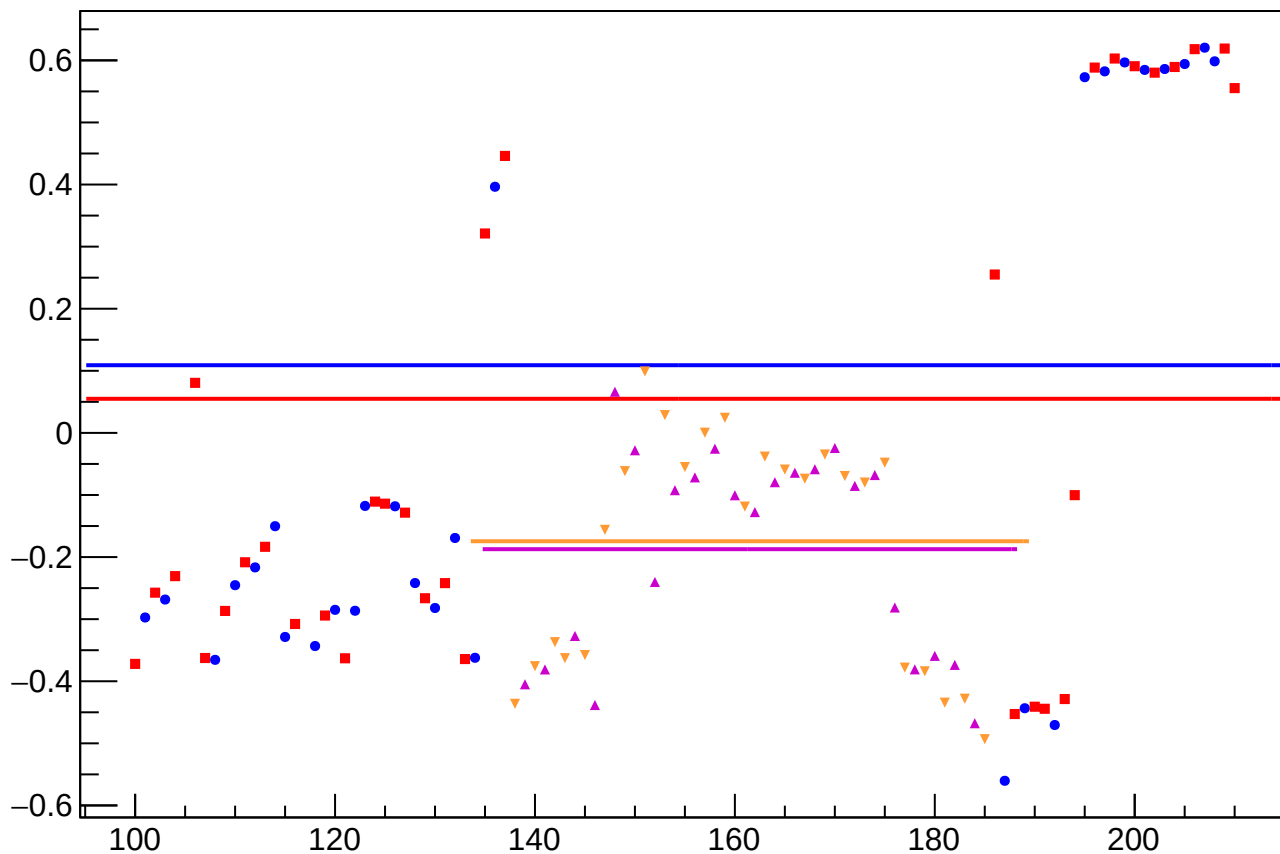
Right: 0.005+/-0.000 χ^2/NDF : 2237104.4/60

In: 0.005+/-0.000 χ^2/NDF : 1280971.5/50

Out: 0.005+/-0.000 χ^2/NDF : 2093763.0/57

All: 0.005+/-0.000 χ^2/NDF : 3374777.0/108

yield_bpm0i02X_mean vs Slug, Sign Corrected



Right In: 0.109+/-0.000

χ^2/NDF : 60427656711.2/27

Left: -0.181+/-0.000

χ^2/NDF : 30888184231.6/47

Left Out: -0.174+/-0.000

χ^2/NDF : 18025533236.1/24

Right: 0.080+/-0.000

χ^2/NDF : 124364699768.8/60

Right Out: 0.055+/-0.000

χ^2/NDF : 63465374227.2/32

In: -0.082+/-0.000

χ^2/NDF : 90277790265.2/50

Out: -0.088+/-0.000

χ^2/NDF : 92918716434.3/57

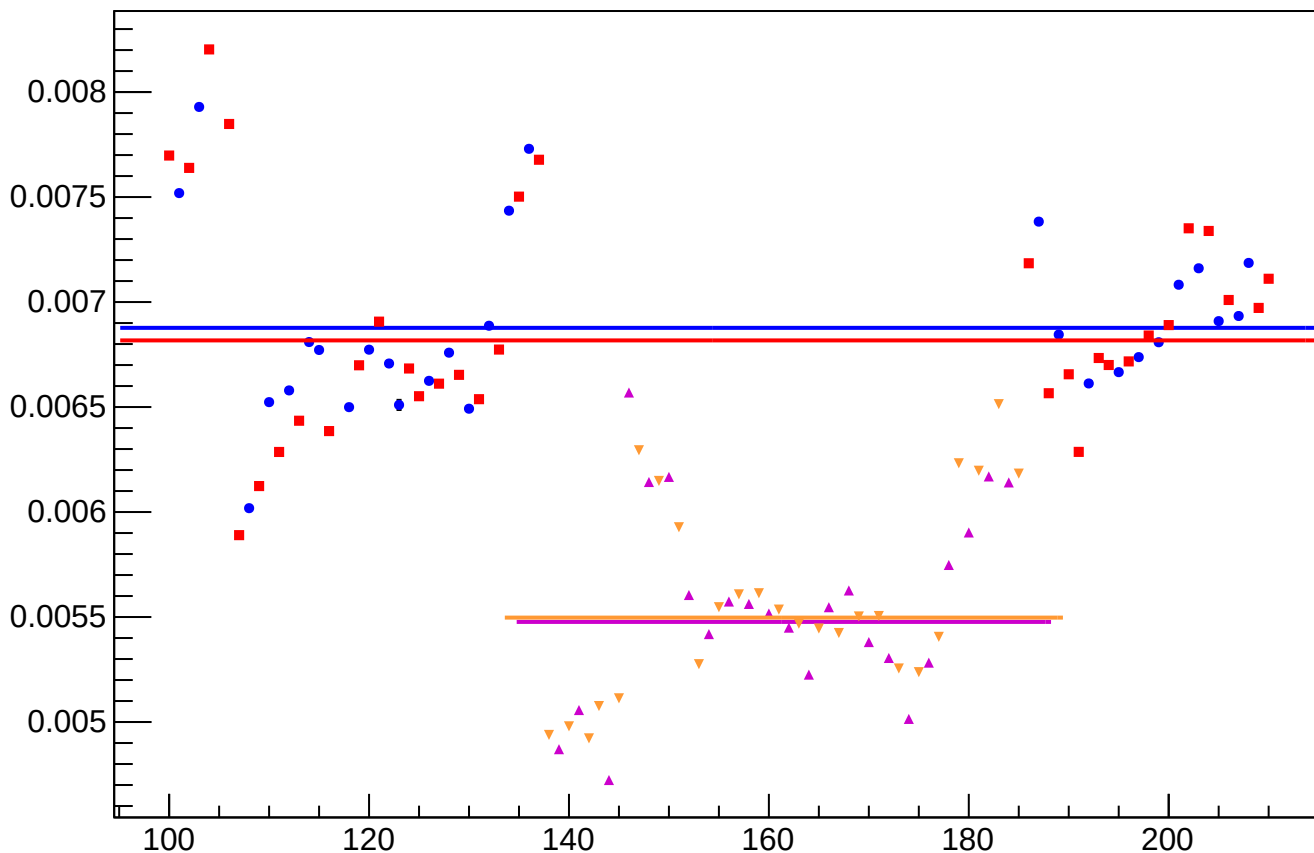
Left In: -0.187+/-0.000

χ^2/NDF : 12816646575.4/22

All: -0.085+/-0.000

χ^2/NDF : 183212797850.0

yield_bpm0i02X_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 91502.6/27

Left Out: 0.005+/-0.000 χ^2/NDF :198746.4/24

Right Out: 0.007+/-0.000 χ^2/NDF : 133398.8/32

Left In: 0.005+/-0.000 χ^2/NDF :202181.4/22

Left: 0.005+/-0.000 χ^2/NDF : 401165.3/47

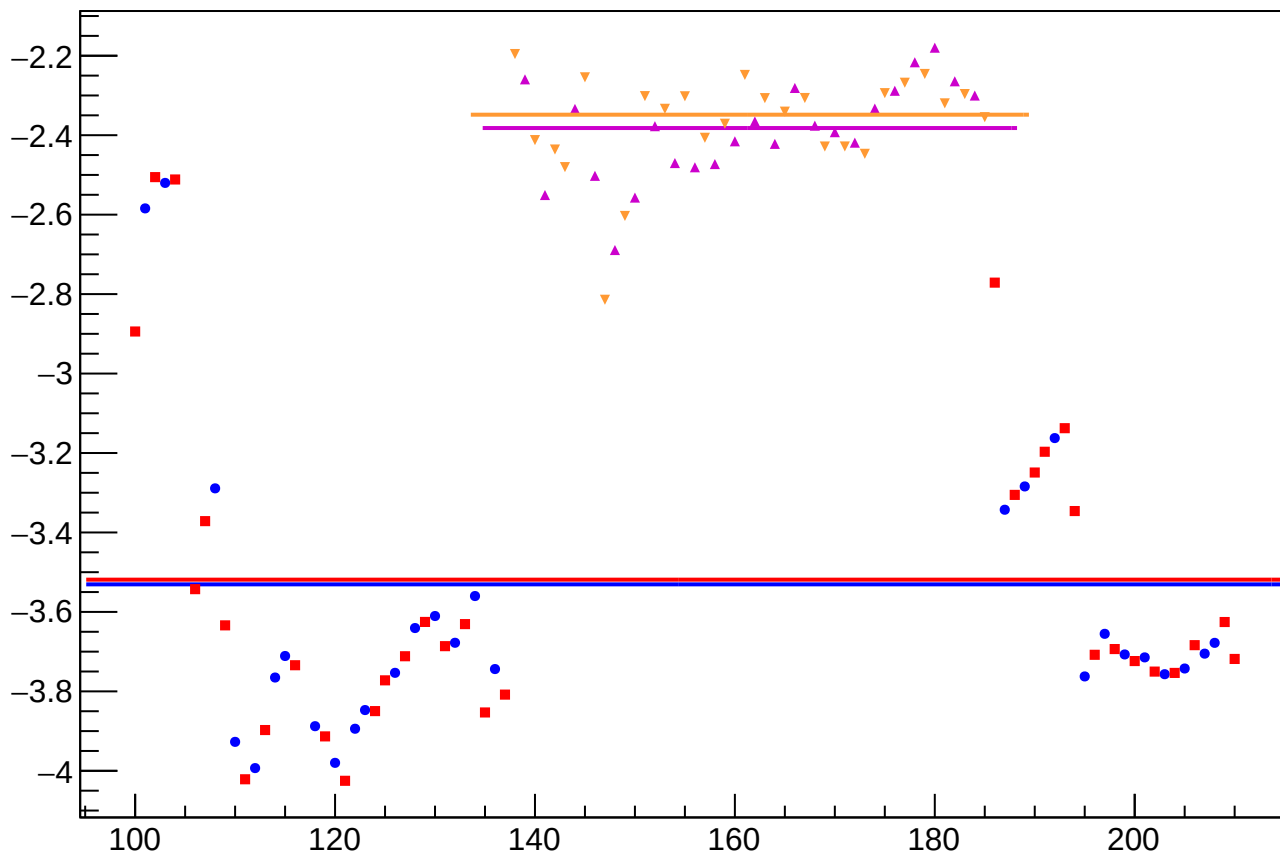
Right: 0.007+/-0.000 χ^2/NDF : 226055.5/60

In: 0.006+/-0.000 χ^2/NDF :1054751.2/50

Out: 0.006+/-0.000 χ^2/NDF :1088869.7/57

All: 0.006+/-0.000 χ^2/NDF : 2143974.3/108

yield_bpm0i02Y_mean vs Slug, Sign Corrected



Right In: -3.531+/-0.000

χ^2/NDF : 30026680080.3/27

Left: -2.365+/-0.000

χ^2/NDF : 4600738143.2/47

Left Out: -2.348+/-0.000

χ^2/NDF : 2158686333.4/24

Right: -3.524+/-0.000

χ^2/NDF : 61111228011.8/60

Right Out: -3.519+/-0.000

χ^2/NDF : 31073274346.8/32

In: -2.863+/-0.000

χ^2/NDF : 150172424137.4/50

Out: -2.850+/-0.000

χ^2/NDF : 165238093913.6/57

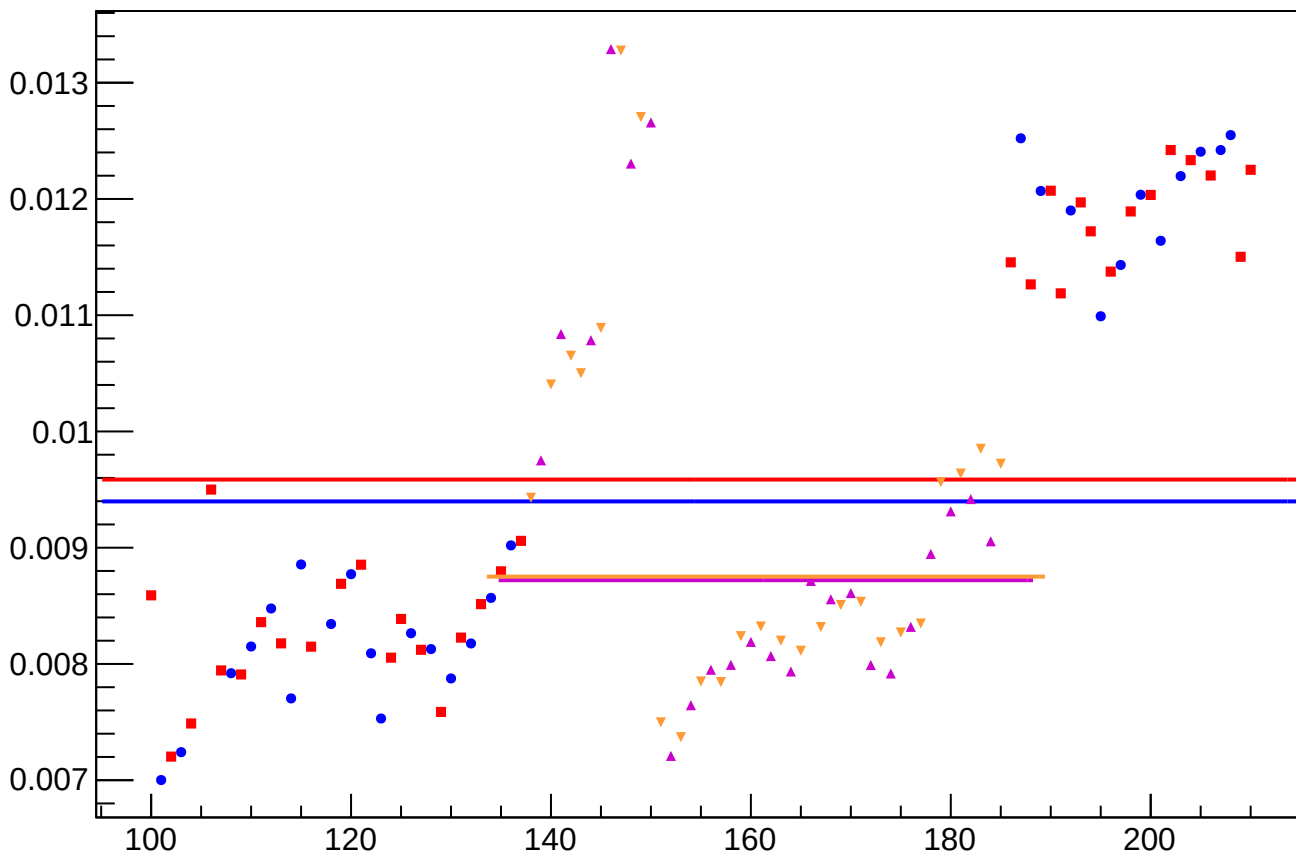
Left In: -2.382+/-0.000

χ^2/NDF : 2318395228.4/22

All: -2.856+/-0.000

χ^2/NDF : 315442297587.4

yield_bpm0i02Y_rms vs Slug, Sign Corrected



Right In: 0.009+/-0.000 χ^2/NDF : 1143553.9/27

Left Out: 0.009+/-0.000 χ^2/NDF : 663672.8/24

Right Out: 0.010+/-0.000 χ^2/NDF : 1178183.9/32

Left In: 0.009+/-0.000 χ^2/NDF : 747867.0/22

Left: 0.009+/-0.000 χ^2/NDF : 1411749.0/47

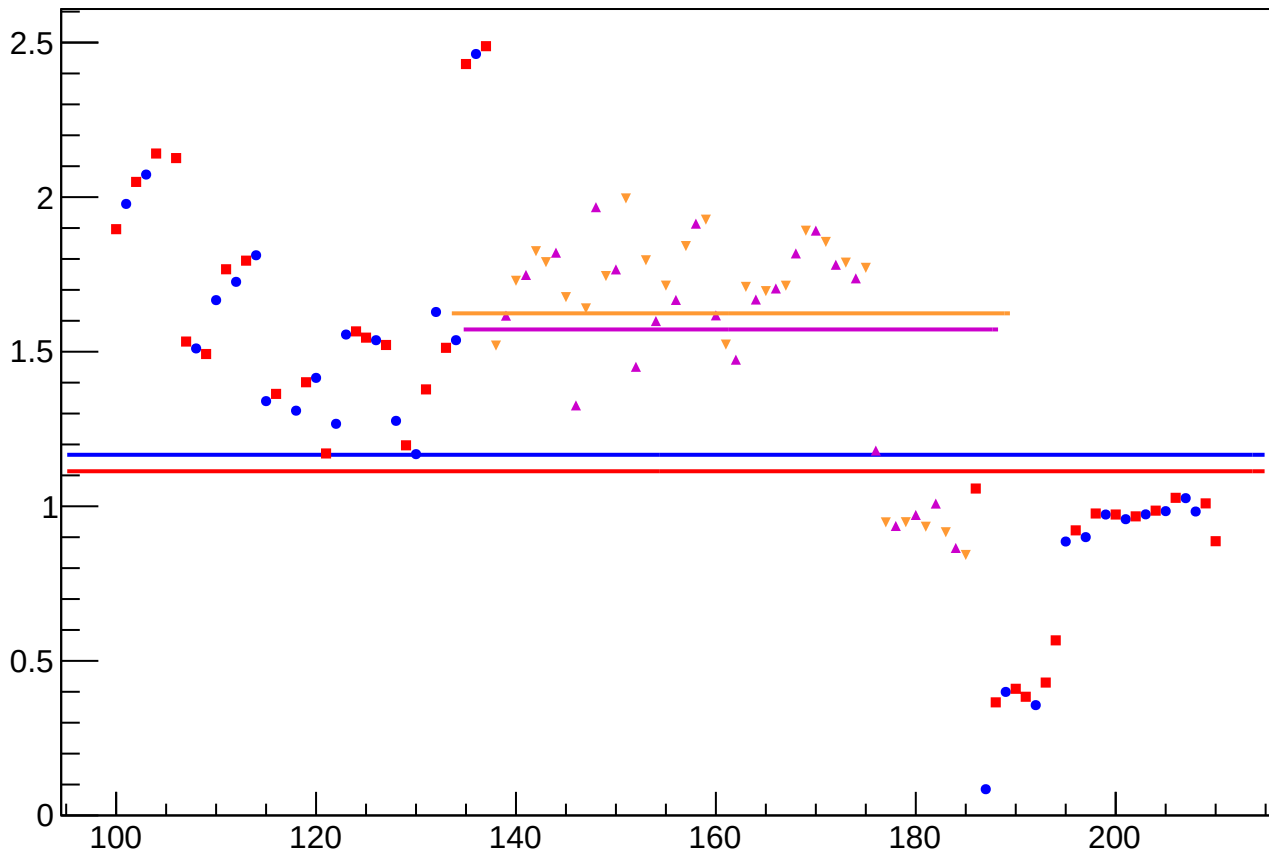
Right: 0.009+/-0.000 χ^2/NDF : 2327409.9/60

In: 0.009+/-0.000 χ^2/NDF : 1973470.3/50

Out: 0.009+/-0.000 χ^2/NDF : 1976141.9/57

All: 0.009+/-0.000 χ^2/NDF : 3953786.4/108

yield_bpm0i02aX_mean vs Slug, Sign Corrected



Right In: 1.167 $\pm$ 0.000

χ^2/NDF : 27574124337.8/27

Left Out: 1.624 $\pm$ 0.000

χ^2/NDF : 16631112386.4/24

Right Out: 1.113 $\pm$ 0.000

χ^2/NDF : 32947462035.1/32

Left In: 1.572 $\pm$ 0.000

χ^2/NDF : 14230484809.4/22

Left: 1.599 $\pm$ 0.000

χ^2/NDF : 31067753064.6/47

Right: 1.138 $\pm$ 0.000

χ^2/NDF : 60668103878.9/60

In: 1.413 $\pm$ 0.000

χ^2/NDF : 51328779657.8/50

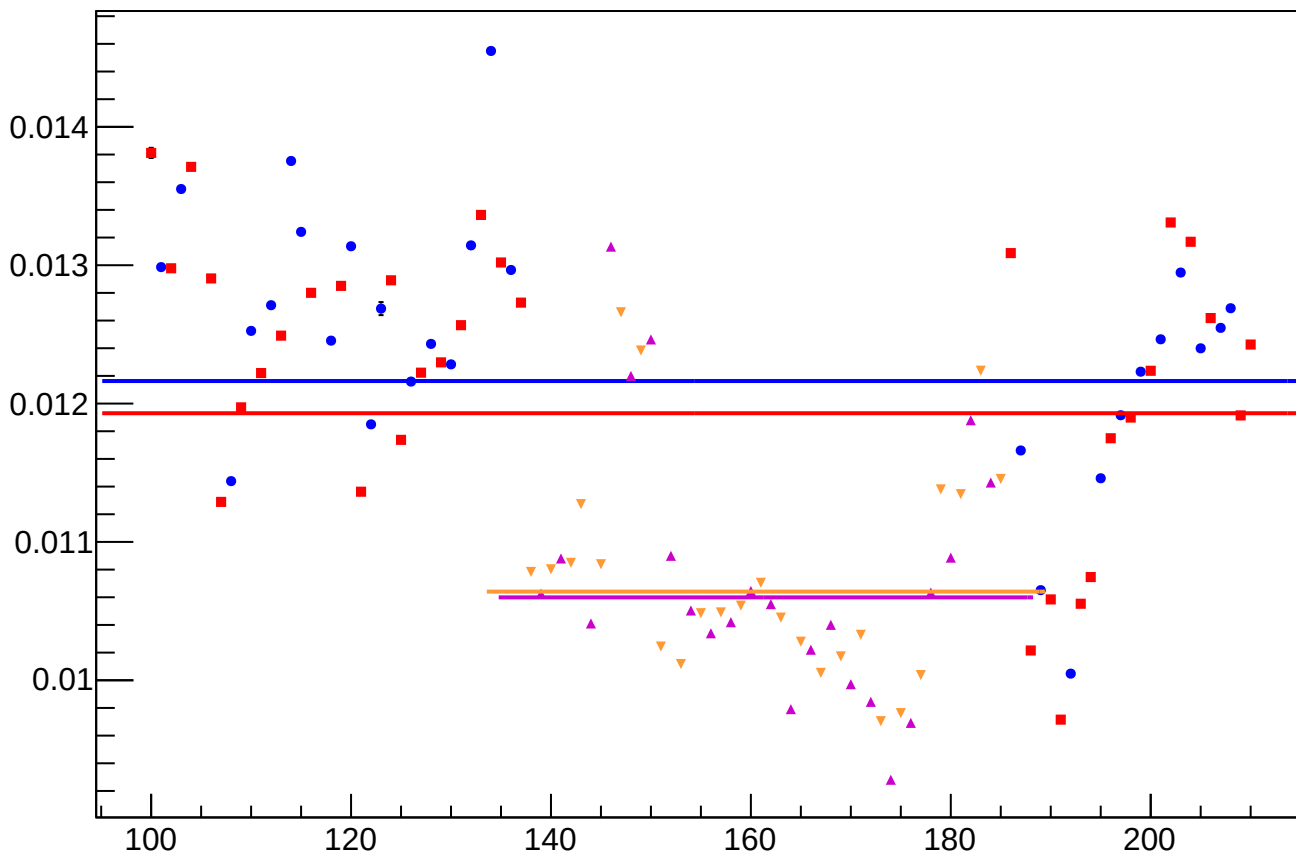
Out: 1.410 $\pm$ 0.000

χ^2/NDF : 66646181181.6/57

All: 1.411 $\pm$ 0.000

χ^2/NDF : 117976124120.3

yield_bpm0i02aX_rms vs Slug, Sign Corrected



Right In: 0.012 $\pm$ 0.000 χ^2 /NDF: 169147.9/27

Left Out: 0.011 $\pm$ 0.000 χ^2 /NDF:159760.9/24

Right Out: 0.012 $\pm$ 0.000 χ^2 /NDF: 233295.0/32

Left In: 0.011 $\pm$ 0.000 χ^2 /NDF:204531.5/22

Left: 0.011 $\pm$ 0.000 χ^2 /NDF: 364556.9/47

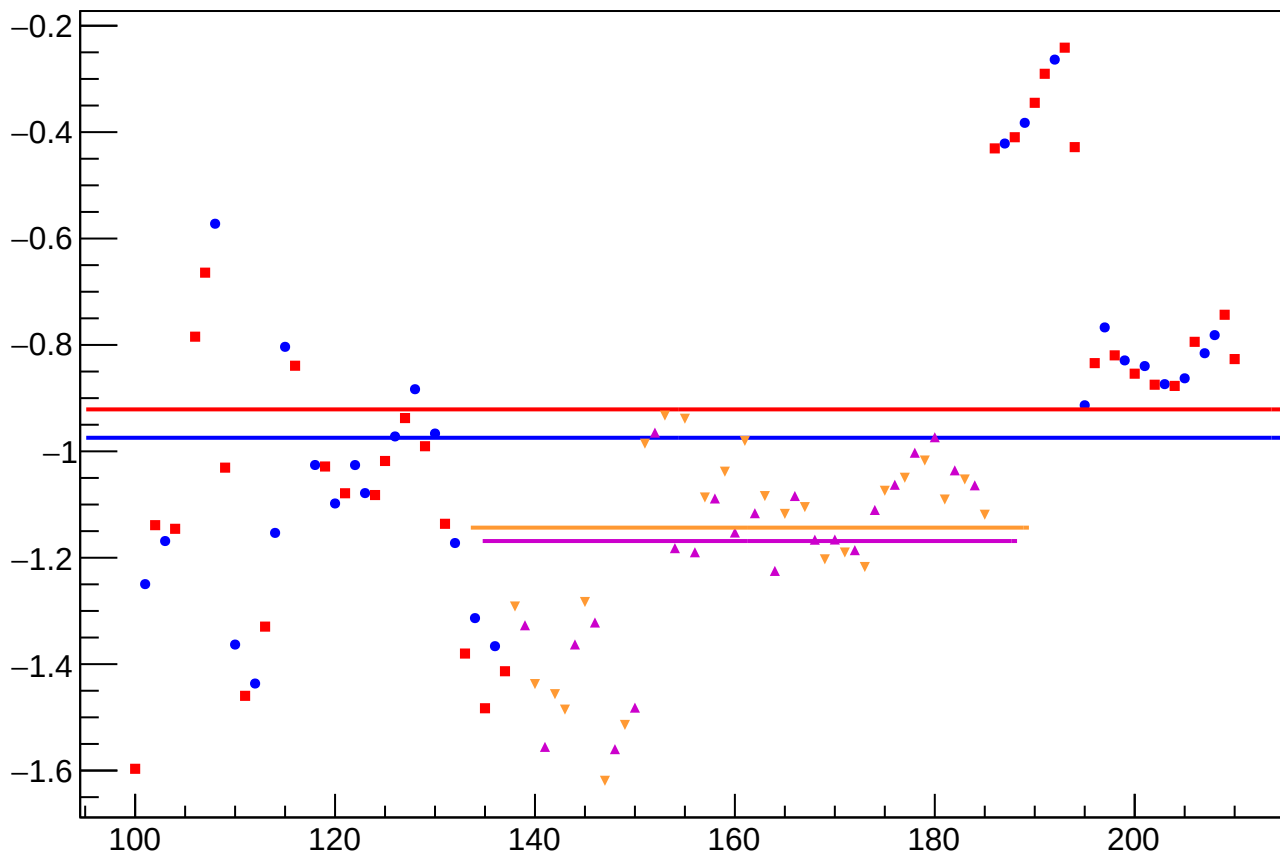
Right: 0.012 $\pm$ 0.000 χ^2 /NDF: 408035.3/60

In: 0.011 $\pm$ 0.000 χ^2 /NDF:657116.0/50

Out: 0.011 $\pm$ 0.000 χ^2 /NDF:610565.9/57

All: 0.011 $\pm$ 0.000 χ^2 /NDF: 1267928.4/108

yield_bpm0i02aY_mean vs Slug, Sign Corrected



Right In: -0.975+/-0.000 χ^2/NDF : 11137407911.3/27

Left Out: -1.143+/-0.000 χ^2/NDF : 7976364534.0/24

Right Out: -0.921+/-0.000 χ^2/NDF : 16080452772.8/32

Left In: -1.169+/-0.000 χ^2/NDF : 6362643368.6/22

Left: -1.156+/-0.000 χ^2/NDF : 14424995220.9/47

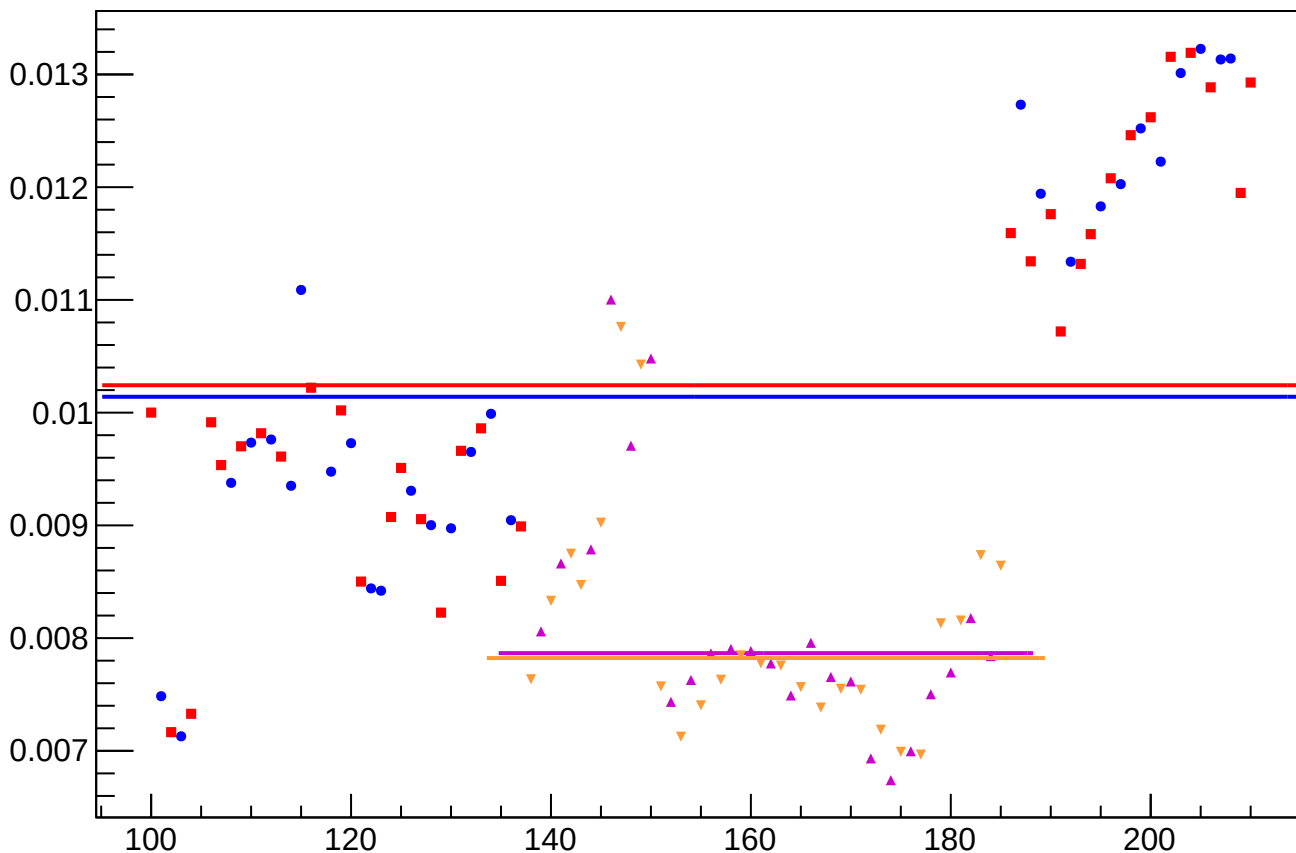
Right: -0.946+/-0.000 χ^2/NDF : 27415246002.2/60

In: -1.104+/-0.000 χ^2/NDF : 20795751812.5/50

Out: -1.067+/-0.000 χ^2/NDF : 28817324270.8/57

All: -1.085+/-0.000 χ^2/NDF : 49892244515.4/100

yield_bpm0i02aY_rms vs Slug, Sign Corrected



Right In: 0.010 $\pm$ 0.000 χ^2 /NDF: 979236.1/27

Left Out: 0.008 $\pm$ 0.000 χ^2 /NDF:336387.6/24

Right Out: 0.010 $\pm$ 0.000 χ^2 /NDF: 1002054.8/32

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

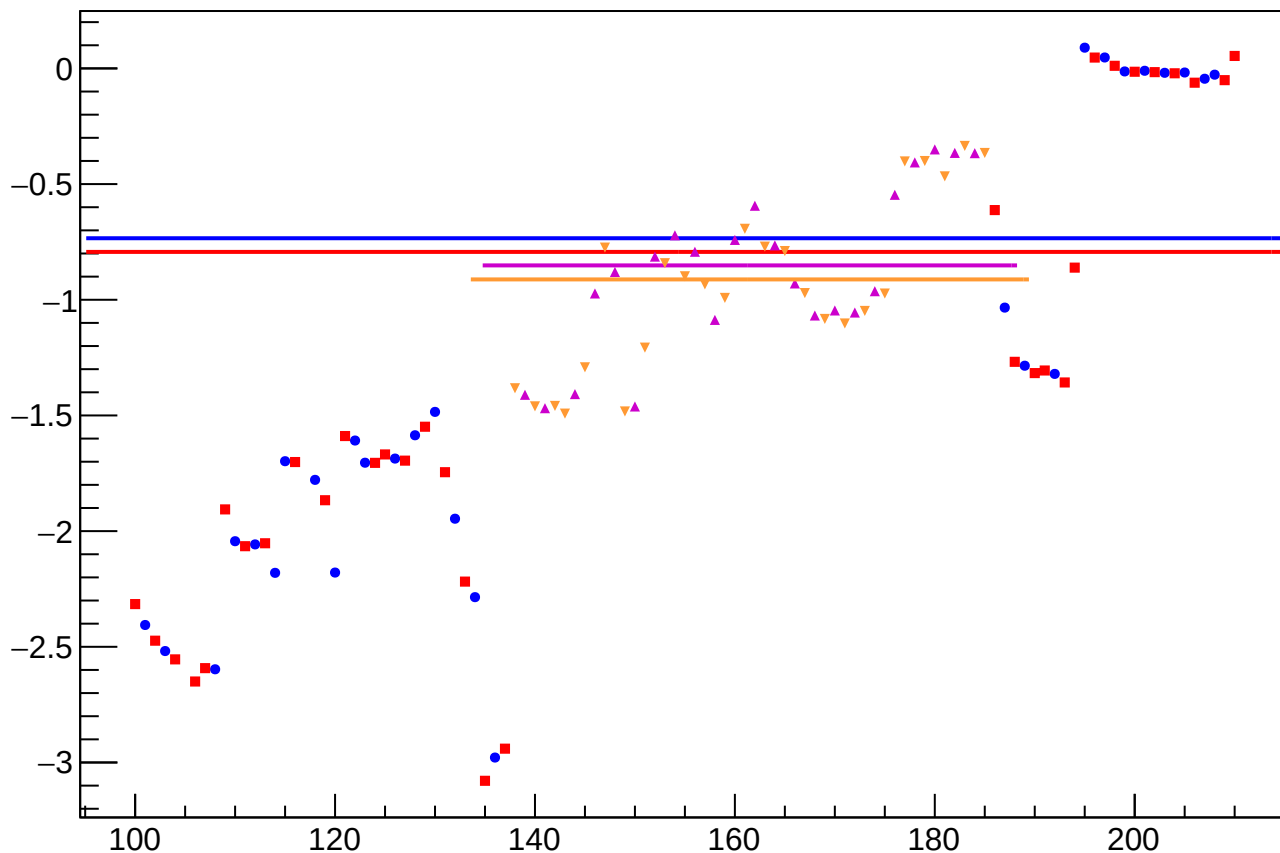
Right: 0.010 $\pm$ 0.000 χ^2 /NDF: 1982736.2/60

In: 0.009 $\pm$ 0.000 χ^2 /NDF:2263923.4/50

Out: 0.009 $\pm$ 0.000 χ^2 /NDF:2467184.6/57

All: 0.009 $\pm$ 0.000 χ^2 /NDF: 4731485.3/108

yield_bpm0i05X_mean vs Slug, Sign Corrected



Right In: -0.734 ± 0.000

χ^2/NDF : 361789732027.7/27

Left: -0.882 ± 0.000

χ^2/NDF : 96285672564.6/47

Left Out: -0.912 ± 0.000

χ^2/NDF : 49039425818.1/24

Right: -0.767 ± 0.000

χ^2/NDF : 767462761279.4/60

Right Out: -0.793 ± 0.000

χ^2/NDF : 404969159584.0/32

In: -0.798 ± 0.000

χ^2/NDF : 410939469414.8/50

Out: -0.852 ± 0.000

χ^2/NDF : 457210695478.4/57

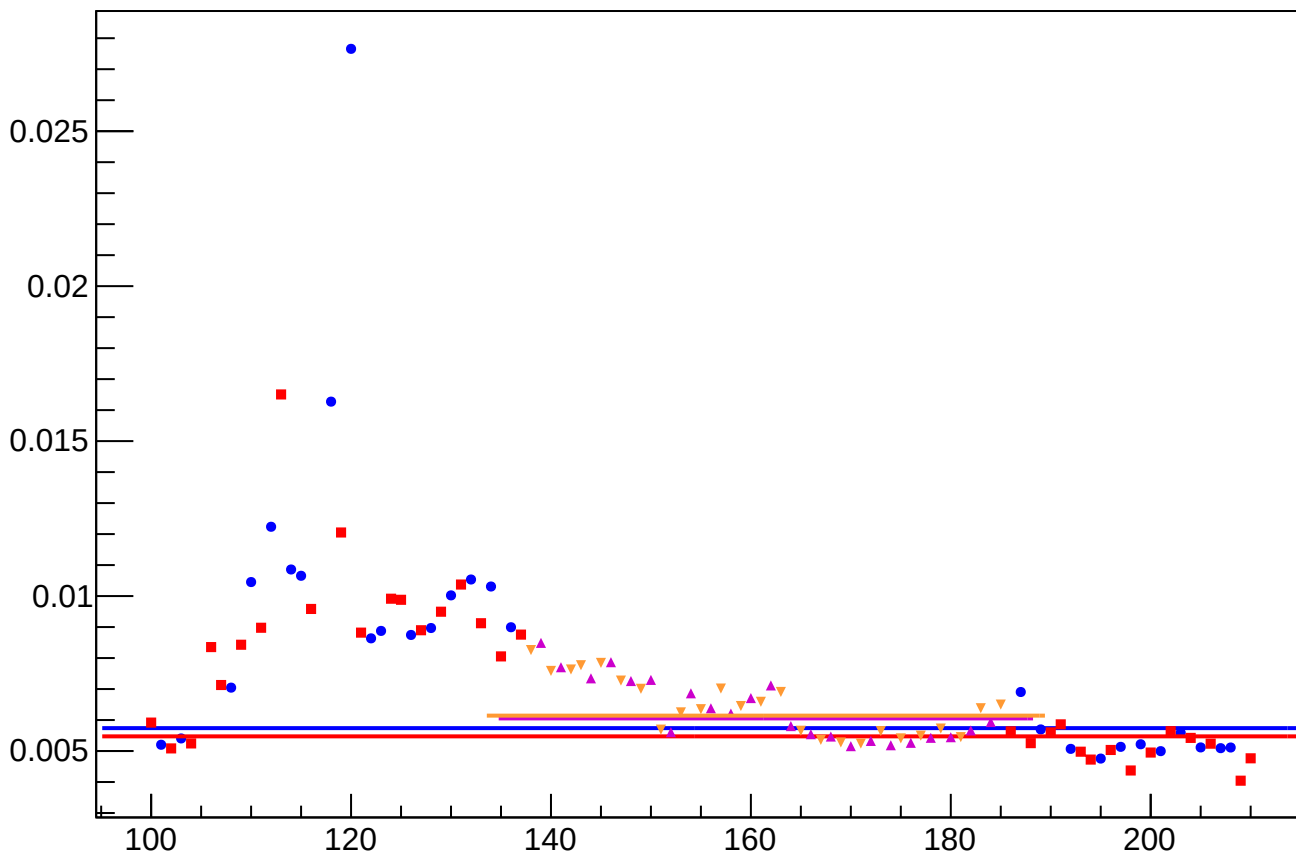
Left In: -0.851 ± 0.000

χ^2/NDF : 46438446008.2/22

All: -0.827 ± 0.000

χ^2/NDF : 869348546588.5

yield_bpm0i05X_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 2026123.7/27

Left Out: 0.006+/-0.000 χ^2/NDF :637765.4/24

Right Out: 0.005+/-0.000 χ^2/NDF : 2126640.0/32

Left In: 0.006+/-0.000 χ^2/NDF :697577.8/22

Left: 0.006+/-0.000 χ^2/NDF : 1338871.2/47

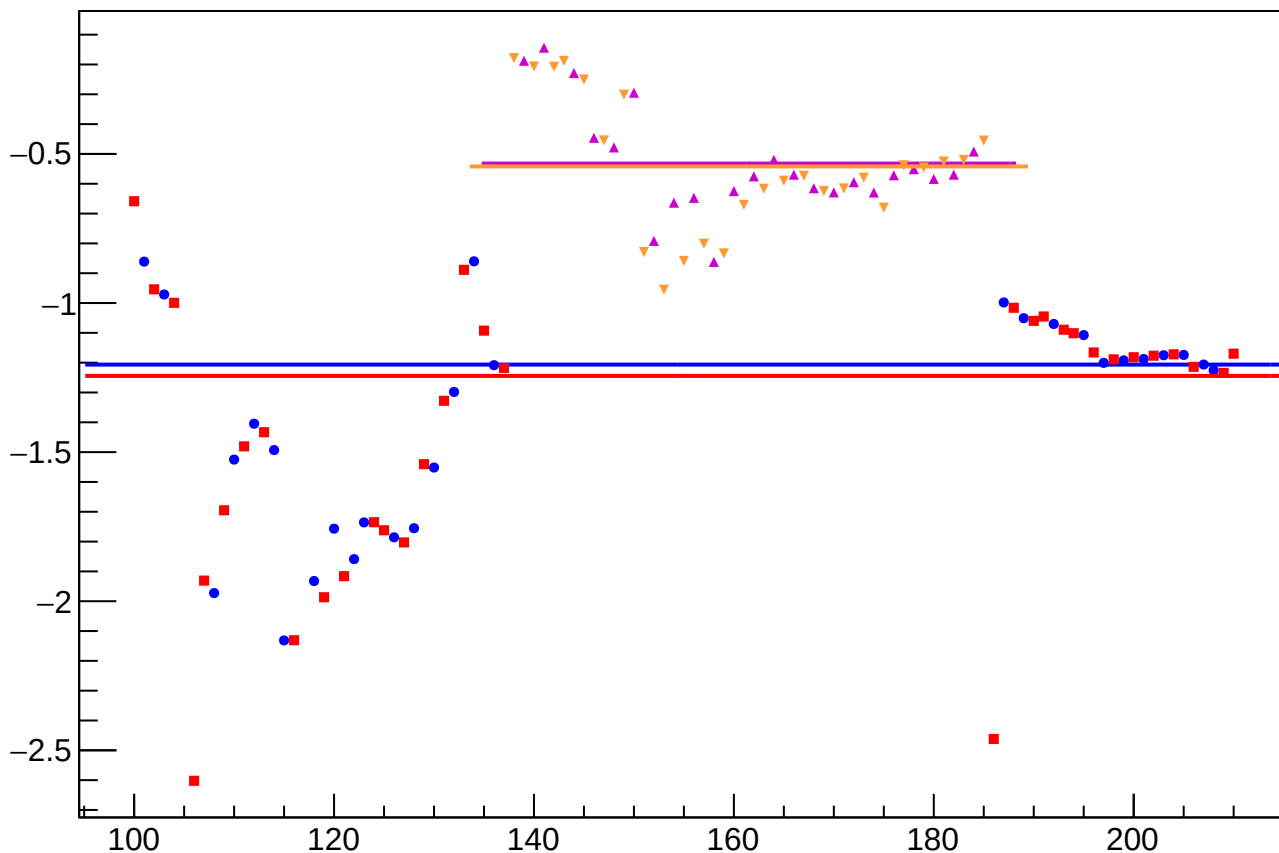
Right: 0.006+/-0.000 χ^2/NDF : 4181253.7/60

In: 0.006+/-0.000 χ^2/NDF :2762410.3/50

Out: 0.006+/-0.000 χ^2/NDF :2966942.6/57

All: 0.006+/-0.000 χ^2/NDF : 5739355.8/108

yield_bpm0i05Y_mean vs Slug, Sign Corrected



Right In: -1.206+/-0.000

χ^2/NDF : 26348214413.2/27

Left: -0.537+/-0.000

χ^2/NDF : 78028833870.1/47

Right: -1.227+/-0.000

χ^2/NDF : 105972701671.7/60

Left Out: -0.542+/-0.000

χ^2/NDF : 47268284910.3/24

In: -0.798+/-0.000

χ^2/NDF : 224620287806.8/50

Right Out: -1.244+/-0.000

χ^2/NDF : 79142747548.4/32

Out: -0.844+/-0.000

χ^2/NDF : 336722149097.9/57

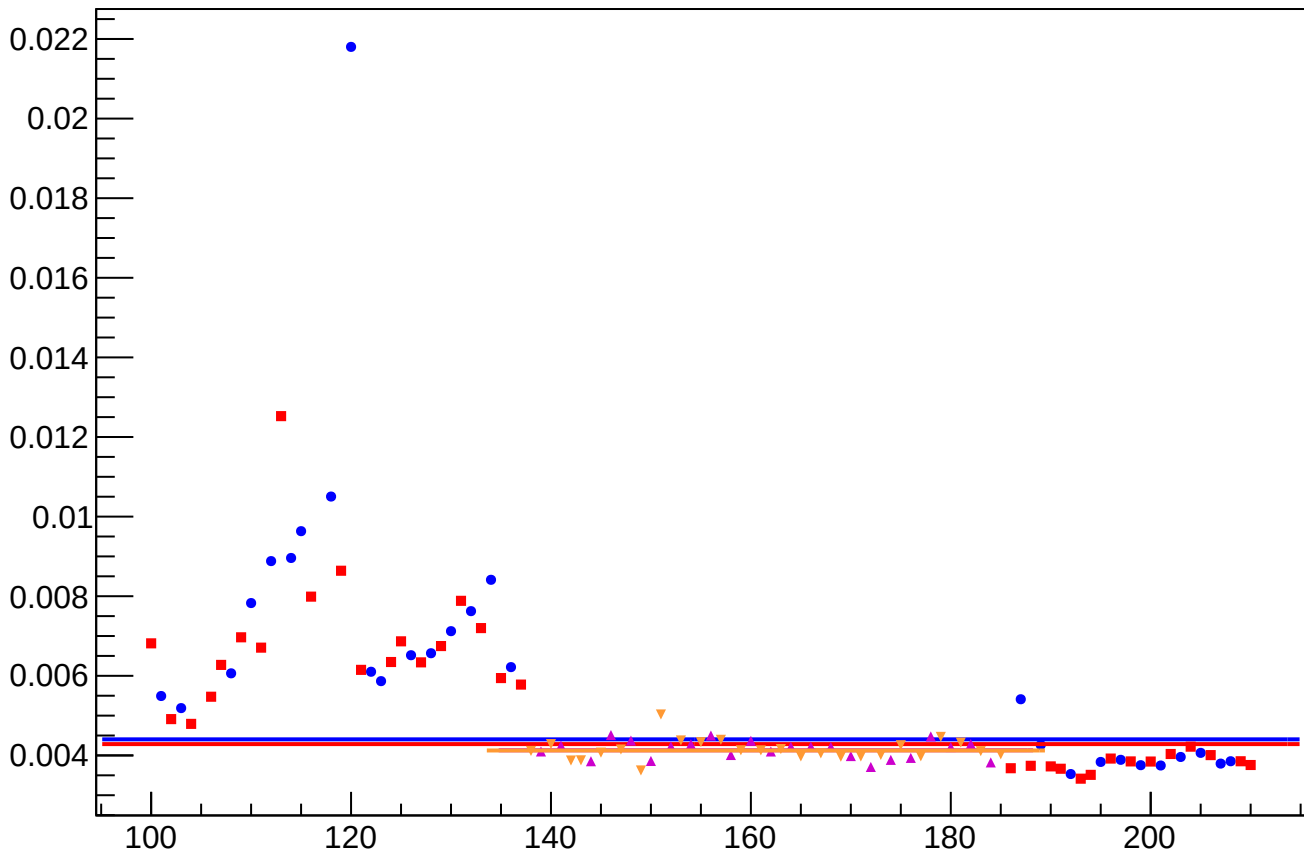
Left In: -0.532+/-0.000

χ^2/NDF : 30715235426.8/22

All: -0.822+/-0.000

χ^2/NDF : 563088075841.3

yield_bpm0i05Y_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 2028326.2/27

Left Out: 0.004+/-0.000 χ^2/NDF :113033.9/24

Right Out: 0.004+/-0.000 χ^2/NDF : 1889279.5/32

Left In: 0.004+/-0.000 χ^2/NDF :93111.2/22

Left: 0.004+/-0.000 χ^2/NDF : 206172.1/47

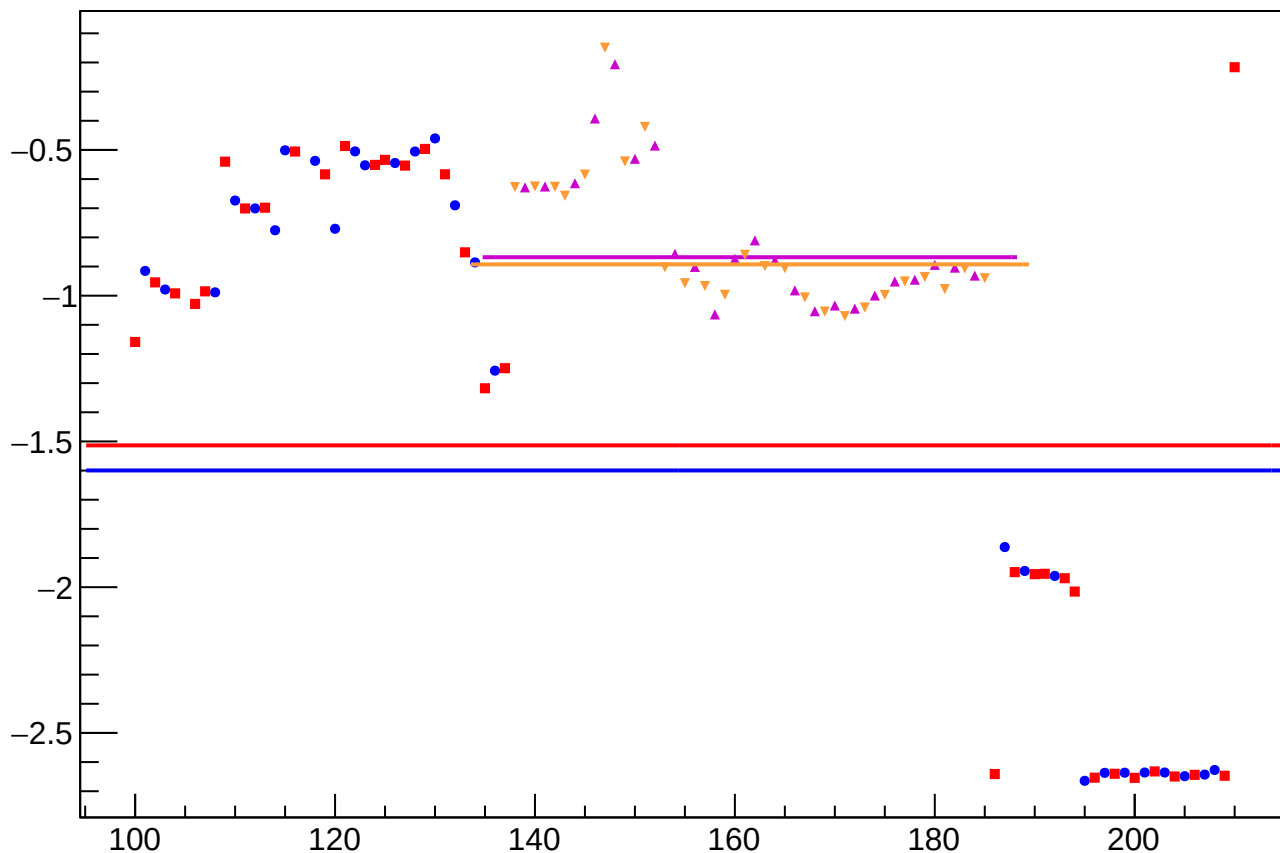
Right: 0.004+/-0.000 χ^2/NDF : 3927186.8/60

In: 0.004+/-0.000 χ^2/NDF :2176936.4/50

Out: 0.004+/-0.000 χ^2/NDF :2024174.3/57

All: 0.004+/-0.000 χ^2/NDF : 4204347.0/108

yield_bpm0i07X_mean vs Slug, Sign Corrected



Right In: -1.600+/-0.000

χ^2/NDF : 254877841172.1/27

Left: -0.880+/-0.000

χ^2/NDF : 84980637247.0/47

Right: -1.546+/-0.000

χ^2/NDF : 737007926622.6/60

Left Out: -0.893+/-0.000

χ^2/NDF : 40787012603.8/24

In: -1.078+/-0.000

χ^2/NDF : 470471792525.1/50

Right Out: -1.514+/-0.000

χ^2/NDF : 480073095243.5/32

Out: -1.136+/-0.000

χ^2/NDF : 691240434065.6/57

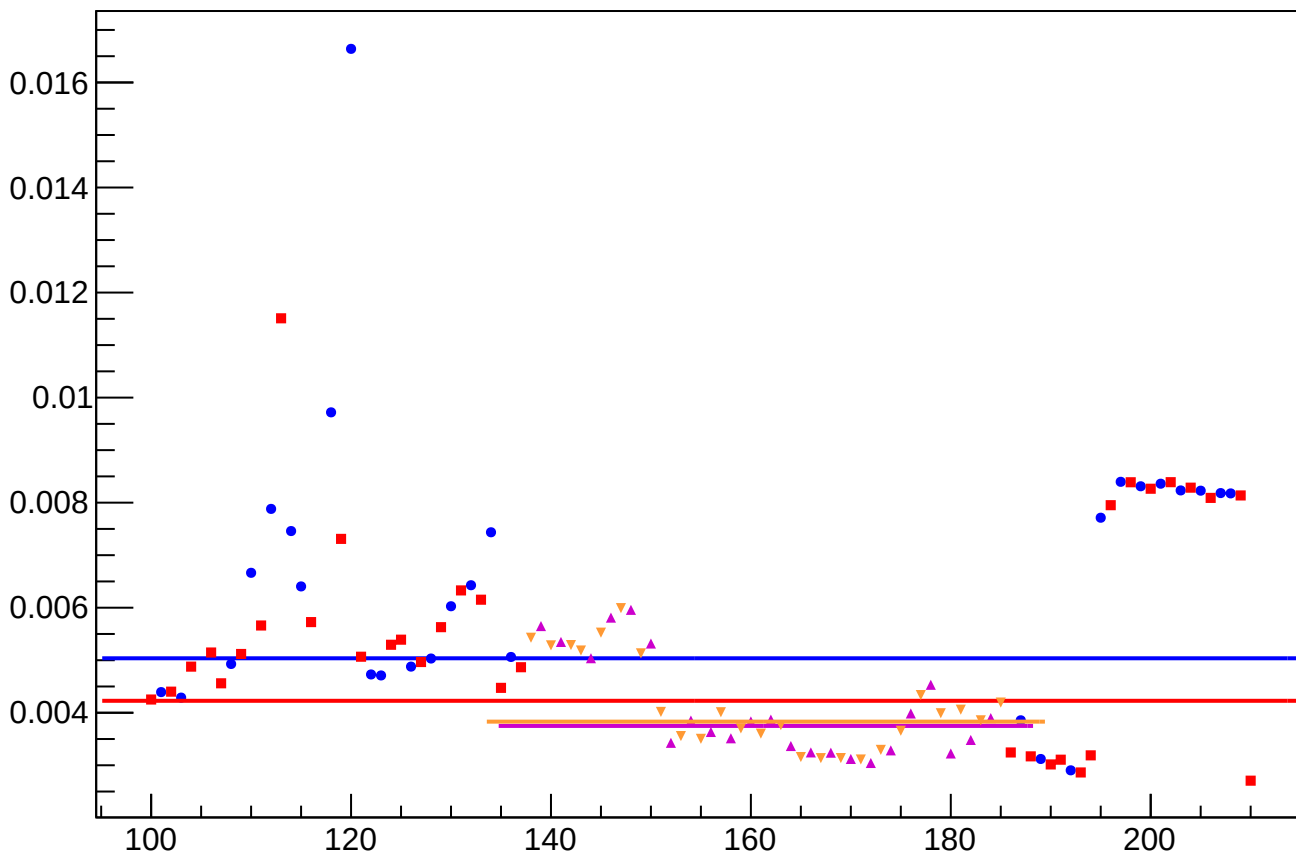
Left In: -0.868+/-0.000

χ^2/NDF : 43853190177.2/22

All: -1.110+/-0.000

χ^2/NDF : 1164577094450

yield_bpm0i07X_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 3848795.1/27

Left Out: 0.004+/-0.000 χ^2/NDF :1179801.7/24

Right Out: 0.004+/-0.000 χ^2/NDF : 4547802.4/32

Left In: 0.004+/-0.000 χ^2/NDF :1288490.4/22

Left: 0.004+/-0.000 χ^2/NDF : 2475792.1/47

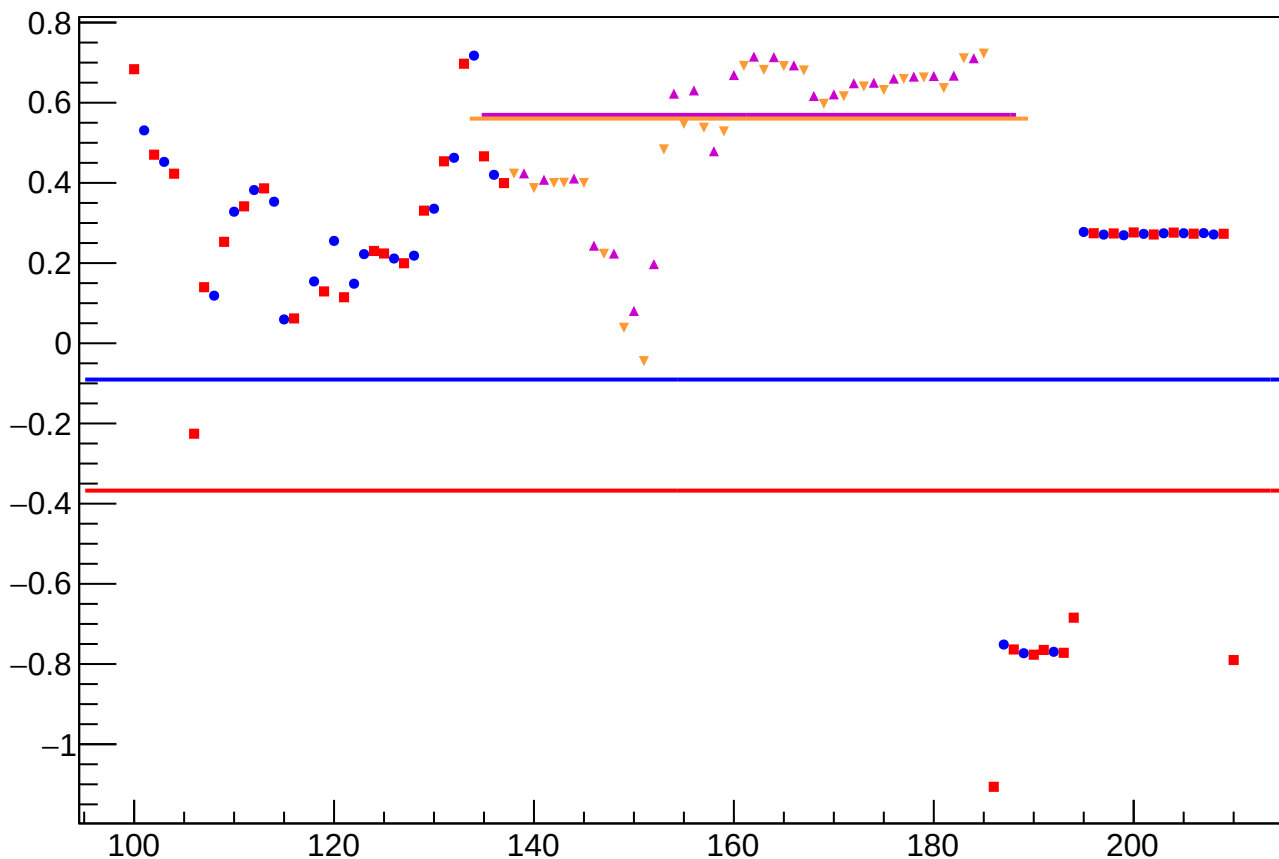
Right: 0.005+/-0.000 χ^2/NDF : 8761099.5/60

In: 0.004+/-0.000 χ^2/NDF :6201810.4/50

Out: 0.004+/-0.000 χ^2/NDF :5866675.8/57

All: 0.004+/-0.000 χ^2/NDF : 12098403.0/108

yield_bpm0i07Y_mean vs Slug, Sign Corrected



Right In: -0.090+/-0.000

χ^2/NDF : 285517875558.9/27

Left: 0.565+/-0.000 χ^2/NDF : 87378176036.1/47

Right: -0.264+/-0.000 χ^2/NDF : 823480453256.4/60

Left Out: 0.560+/-0.000

χ^2/NDF : 45205806387.2/24

In: 0.311+/-0.000 χ^2/NDF : 593567750379.4/50

Out: 0.089+/-0.000 χ^2/NDF : 1243364033122.0/57

Right Out: -0.367+/-0.000

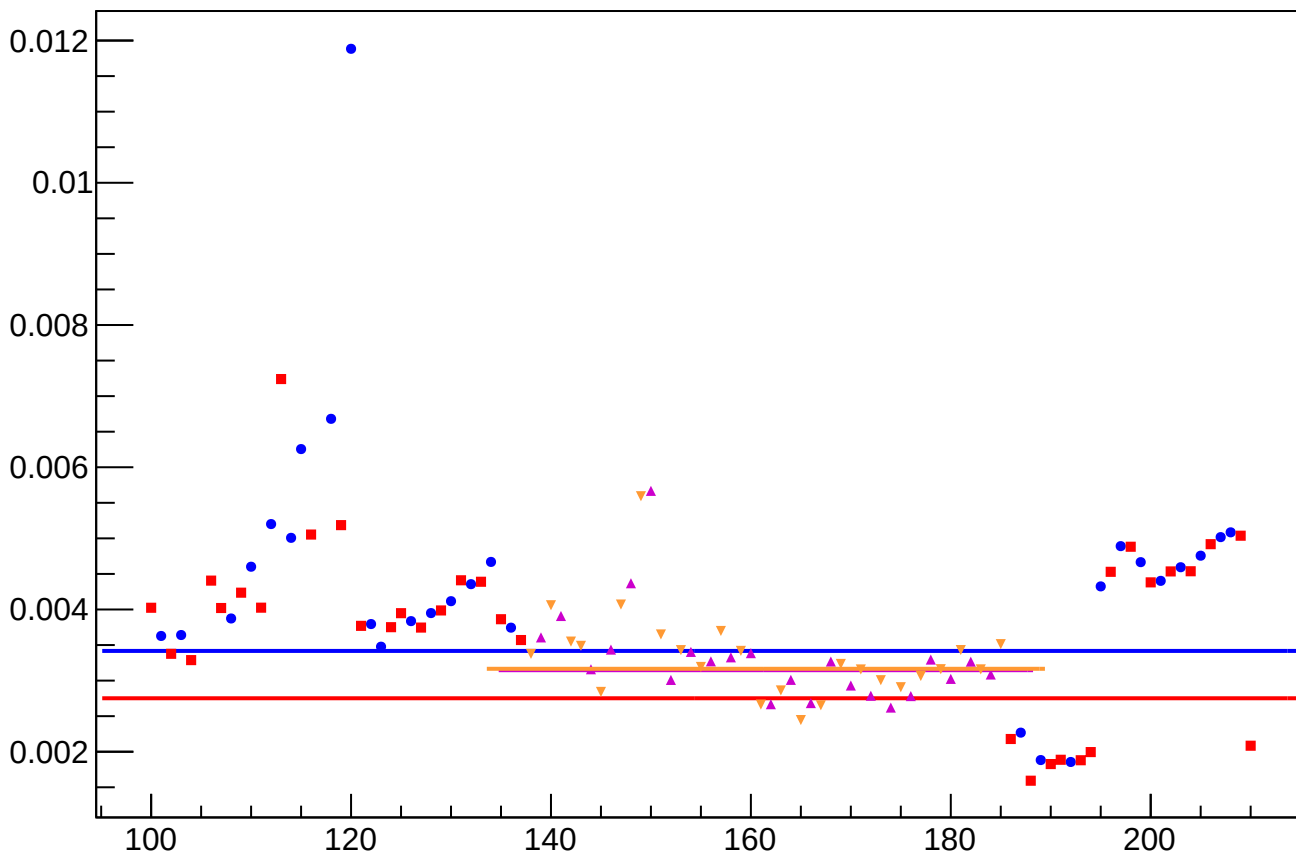
χ^2/NDF : 489832162713.4/32

Left In: 0.570+/-0.000

χ^2/NDF : 42104067973.0/22

All: 0.186+/-0.000 χ^2/NDF : 1908119835413.

yield_bpm0i07Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 3424088.2/27

Left Out: 0.003+/-0.000 χ^2/NDF : 744886.7/24

Right Out: 0.003+/-0.000 χ^2/NDF : 4927274.7/32

Left In: 0.003+/-0.000 χ^2/NDF : 716402.8/22

Left: 0.003+/-0.000 χ^2/NDF : 1461906.1/47

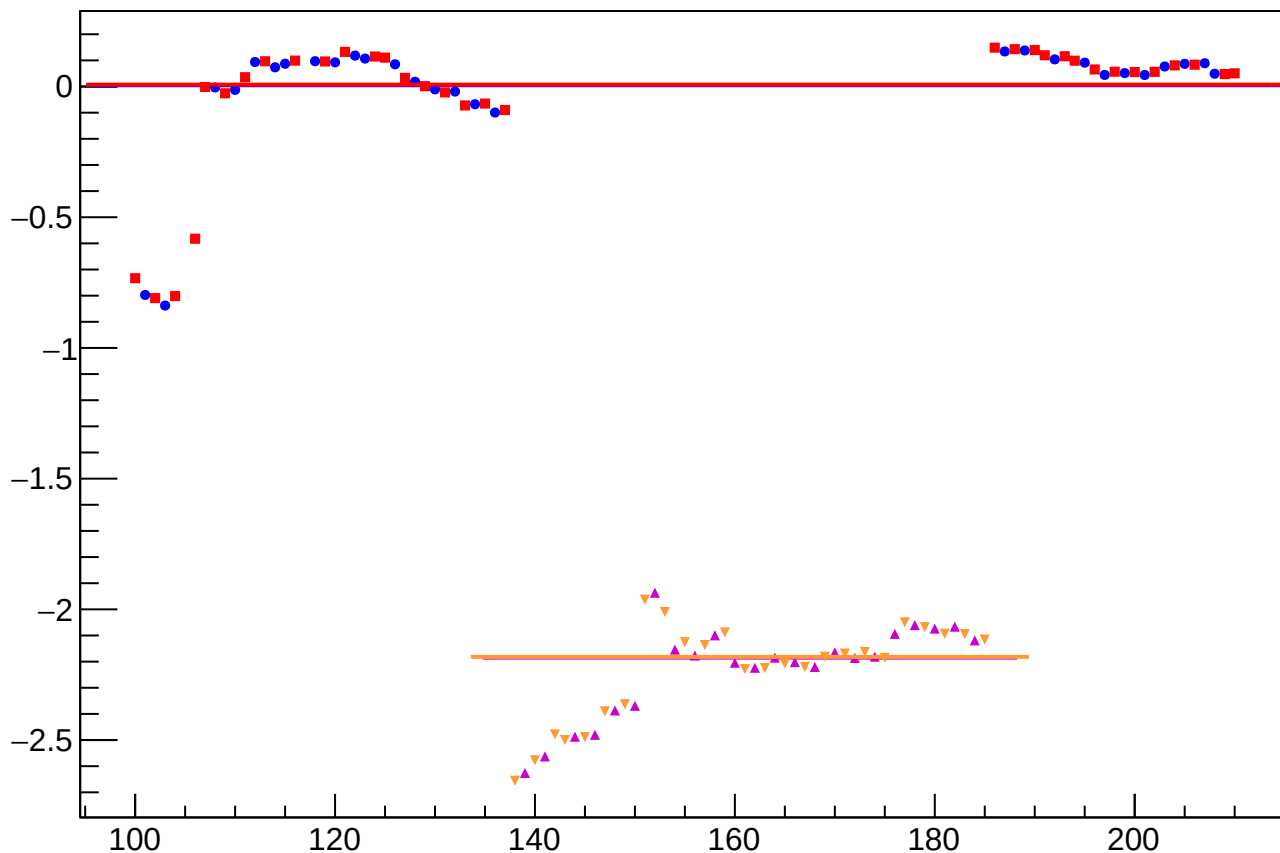
Right: 0.003+/-0.000 χ^2/NDF : 8907305.8/60

In: 0.003+/-0.000 χ^2/NDF : 4230103.2/50

Out: 0.003+/-0.000 χ^2/NDF : 5954816.2/57

All: 0.003+/-0.000 χ^2/NDF : 10439233.3/108

yield_bpm1i02X_mean vs Slug, Sign Corrected



Right In: 0.005+/-0.000

χ^2/NDF : 5894125218.2/27

Left: -2.183+/-0.000

χ^2/NDF : 7382310821.5/47

Left Out: -2.182+/-0.000

χ^2/NDF : 4008829567.0/24

Right: 0.006+/-0.000

χ^2/NDF : 12870100410.2/60

Right Out: 0.007+/-0.000

χ^2/NDF : 6975675354.4/32

In: -1.212+/-0.000

χ^2/NDF : 344407487642.9/50

Out: -1.158+/-0.000

χ^2/NDF : 386791901629.0/57

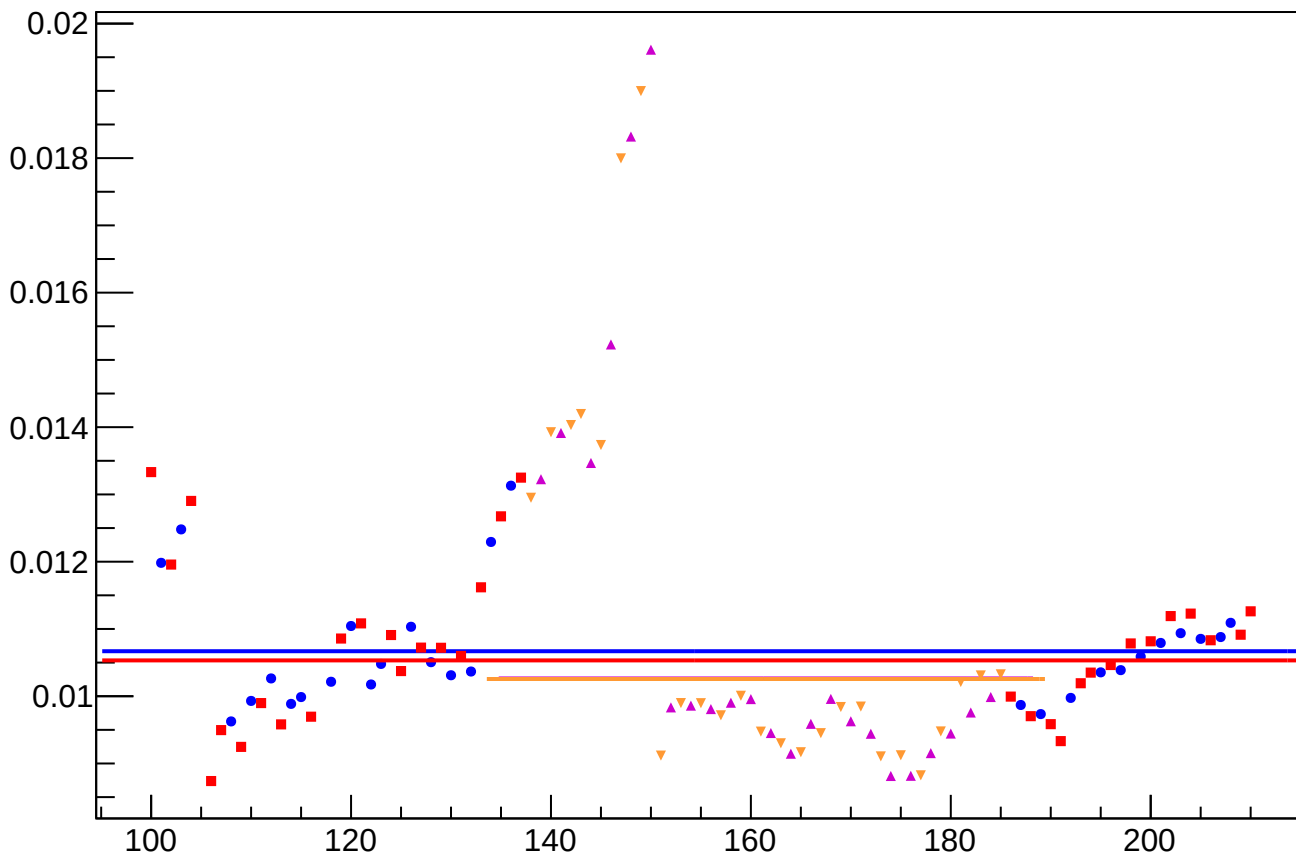
Left In: -2.185+/-0.000

χ^2/NDF : 3372742534.3/22

All: -1.184+/-0.000

χ^2/NDF : 731634993000.4

yield_bpm1i02X_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 153779.9/27

Left Out: 0.010+/-0.000 χ^2/NDF :1270617.6/24

Right Out: 0.011+/-0.000 χ^2/NDF : 231398.7/32

Left In: 0.010+/-0.000 χ^2/NDF :1340264.2/22

Left: 0.010+/-0.000 χ^2/NDF : 2610893.2/47

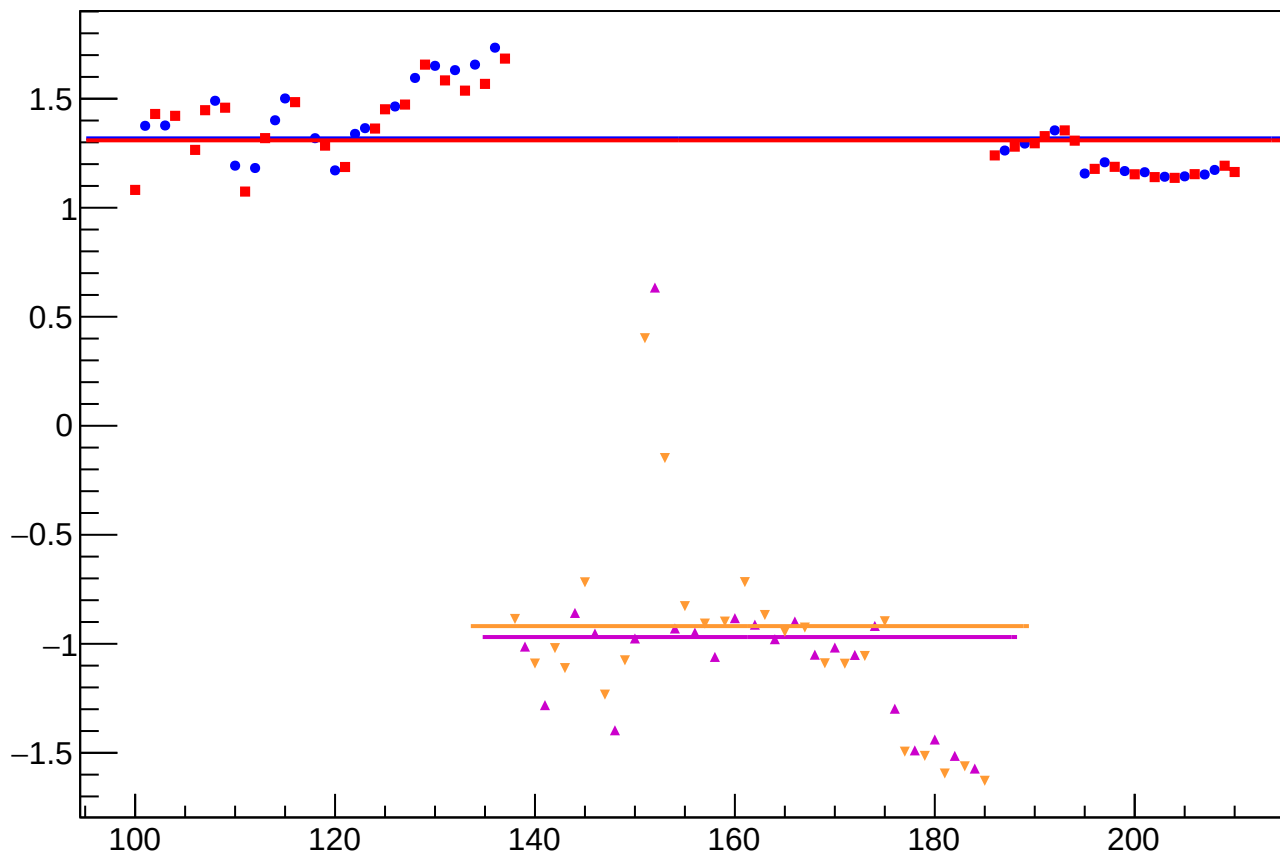
Right: 0.011+/-0.000 χ^2/NDF : 387707.4/60

In: 0.010+/-0.000 χ^2/NDF :1516938.9/50

Out: 0.010+/-0.000 χ^2/NDF :1514013.8/57

All: 0.010+/-0.000 χ^2/NDF : 3031983.1/108

yield_bpm1i02Y_mean vs Slug, Sign Corrected



Right In: 1.318+/-0.000

χ^2/NDF : 7640841365.1/27

Left: -0.943+/-0.000

χ^2/NDF : 110825900215.1/47

Left Out: -0.919+/-0.000

χ^2/NDF : 55622252895.8/24

Right: 1.313+/-0.000

χ^2/NDF : 13853991293.1/60

Right Out: 1.309+/-0.000

χ^2/NDF : 6202418428.2/32

In: 0.190+/-0.000

χ^2/NDF : 697465007710.3/50

Out: 0.264+/-0.000

χ^2/NDF : 726187480152.5/57

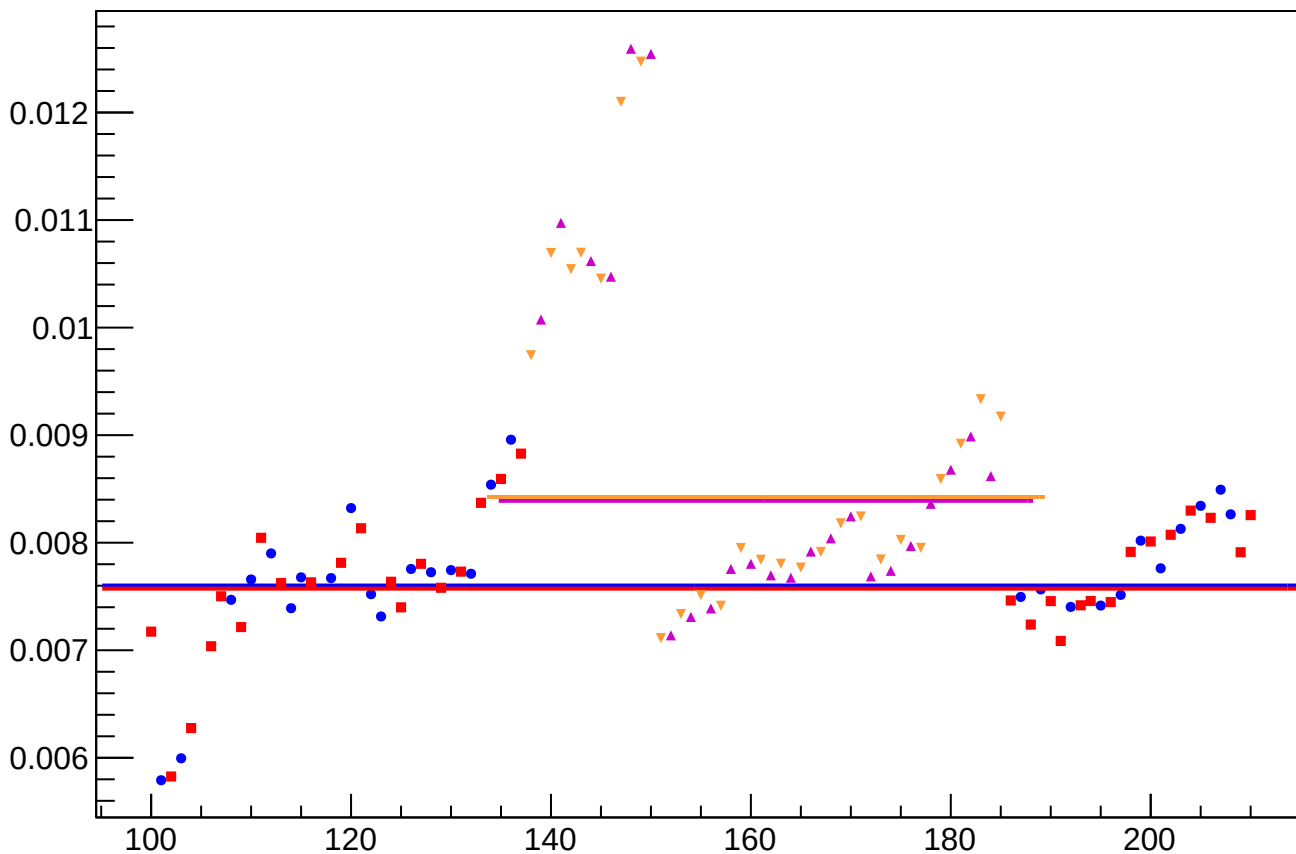
Left In: -0.969+/-0.000

χ^2/NDF : 54895002535.8/22

All: 0.229+/-0.000

χ^2/NDF : 1425028032705.

yield_bpm1i02Y_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 297408.7/27

Left Out: 0.008+/-0.000 χ^2/NDF : 792337.0/24

Right Out: 0.008+/-0.000 χ^2/NDF : 237834.0/32

Left In: 0.008+/-0.000 χ^2/NDF : 839880.4/22

Left: 0.008+/-0.000 χ^2/NDF : 1632536.0/47

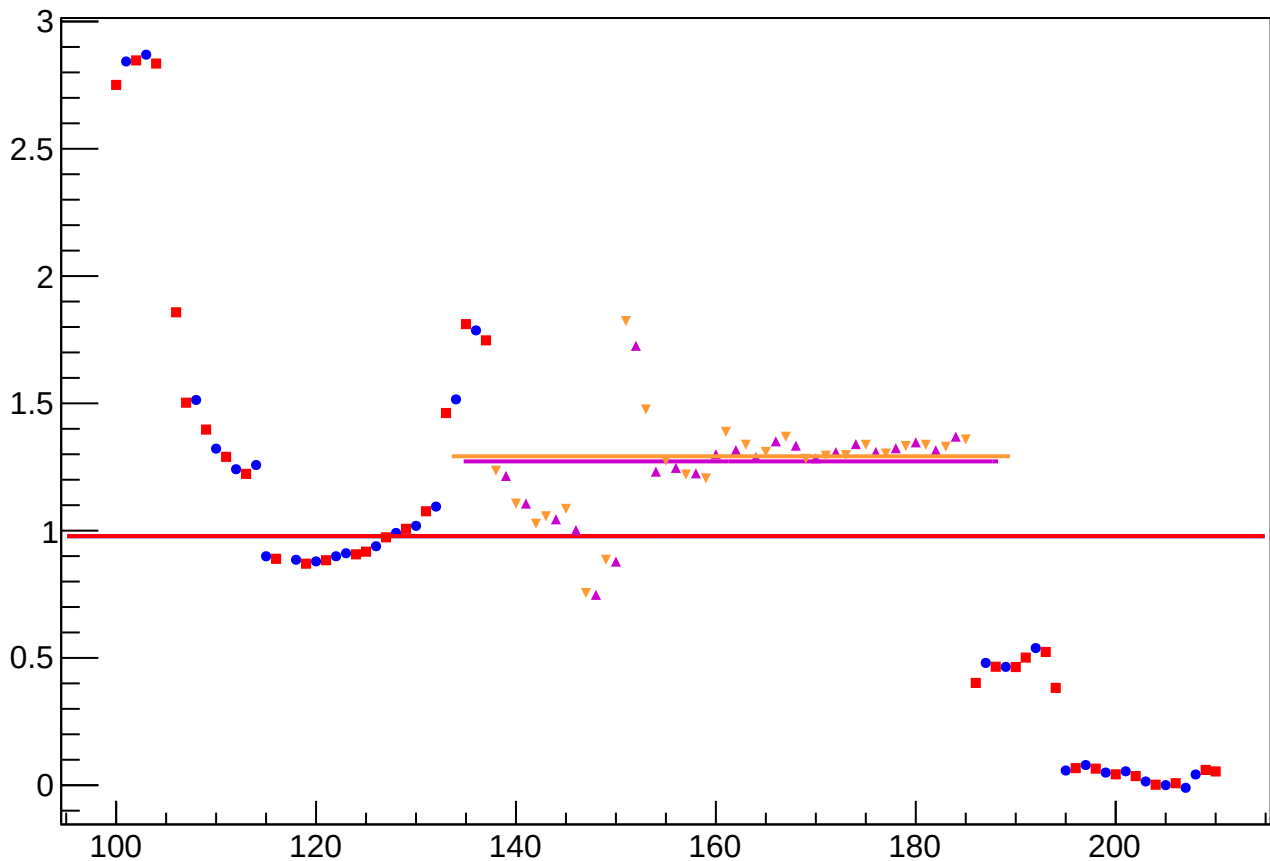
Right: 0.008+/-0.000 χ^2/NDF : 535464.7/60

In: 0.008+/-0.000 χ^2/NDF : 1287903.9/50

Out: 0.008+/-0.000 χ^2/NDF : 1224787.2/57

All: 0.008+/-0.000 χ^2/NDF : 2512844.3/108

yield_bpm1i04X_mean vs Slug, Sign Corrected



Right In: 0.978+/-0.000

χ^2/NDF : 126187796810.6/27

Left Out: 1.292+/-0.000

χ^2/NDF : 9305298695.5/24

Right Out: 0.979+/-0.000

χ^2/NDF : 128295843395.3/32

Left In: 1.272+/-0.000

χ^2/NDF : 7573930981.2/22

Left: 1.282+/-0.000

χ^2/NDF : 16930321584.4/47

Right: 0.978+/-0.000

χ^2/NDF : 254483701162.5/60

In: 1.135+/-0.000

χ^2/NDF : 143559684085.3/50

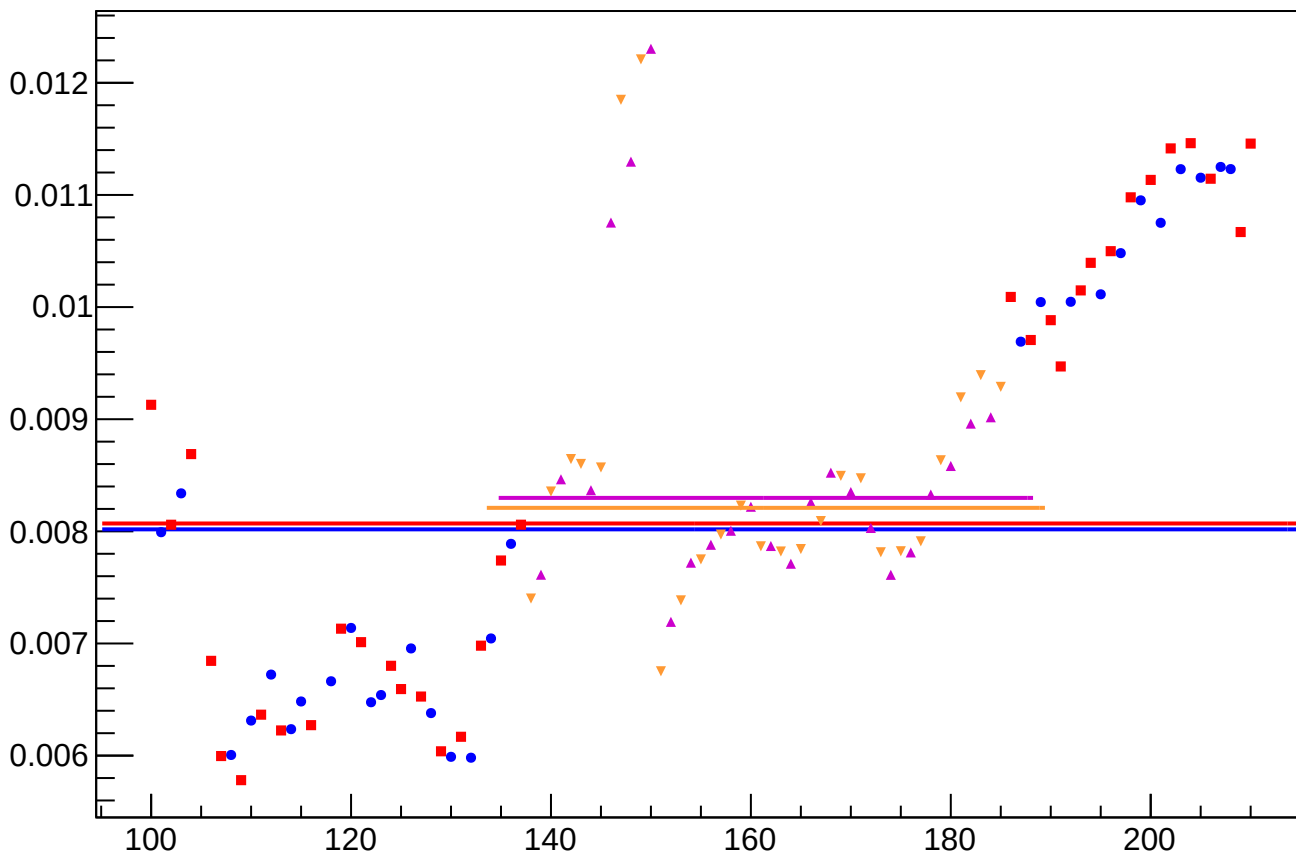
Out: 1.143+/-0.000

χ^2/NDF : 149891048561.9/57

All: 1.139+/-0.000

χ^2/NDF : 293465035725.5

yield_bpm1i04X_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 1592051.4/27

Left Out: 0.008+/-0.000 χ^2/NDF : 478864.9/24

Right Out: 0.008+/-0.000 χ^2/NDF : 1908387.3/32

Left In: 0.008+/-0.000 χ^2/NDF : 462022.1/22

Left: 0.008+/-0.000 χ^2/NDF : 942877.3/47

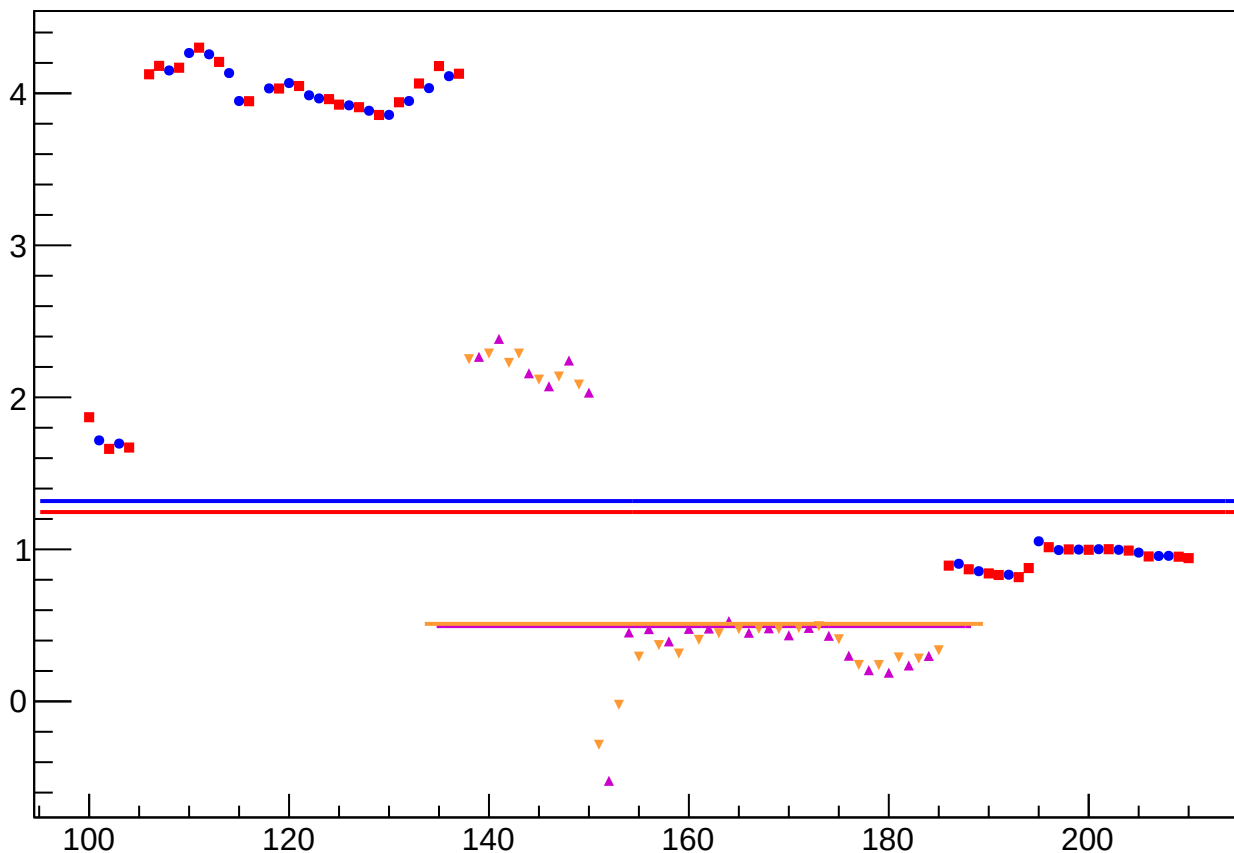
Right: 0.008+/-0.000 χ^2/NDF : 3501053.8/60

In: 0.008+/-0.000 χ^2/NDF : 2071902.4/50

Out: 0.008+/-0.000 χ^2/NDF : 2392117.5/57

All: 0.008+/-0.000 χ^2/NDF : 4464309.2/108

yield_bpm1i04Y_mean vs Slug, Sign Corrected



Right In: 1.318+/-0.000 χ^2/NDF : 1487026980578.5/27

Left Out: 0.510+/-0.000 χ^2/NDF : 274818814912.4/24

Right Out: 1.245+/-0.000 χ^2/NDF : 1707486071787.1/32

Left In: 0.495+/-0.000 χ^2/NDF : 268863202792.4/22

Left: 0.503+/-0.000 χ^2/NDF : 543767842878.3/47

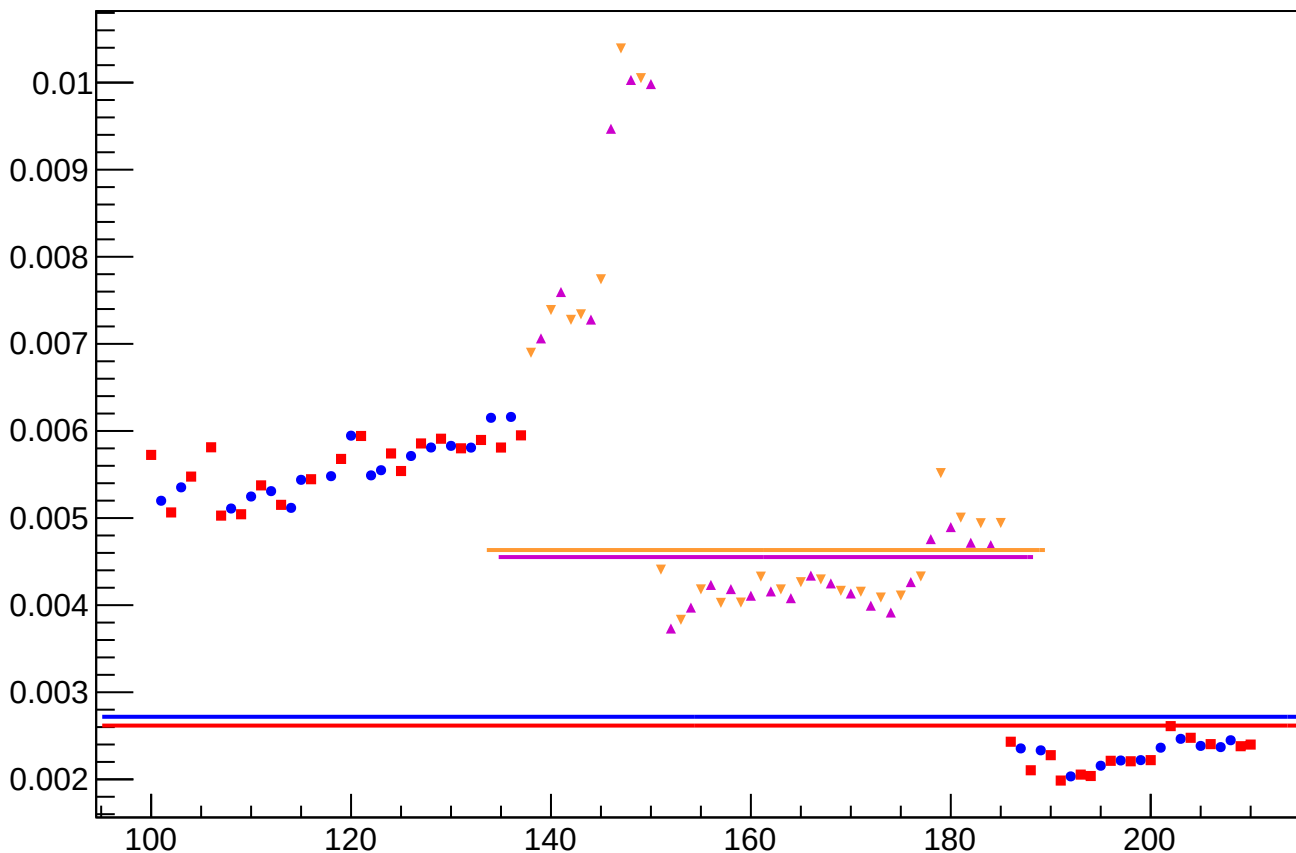
Right: 1.278+/-0.000 χ^2/NDF : 3199123329777.2/60

In: 1.053+/-0.000 χ^2/NDF : 2103604238431.2/50

Out: 1.038+/-0.000 χ^2/NDF : 2283940276401.6/57

All: 1.045+/-0.000 χ^2/NDF : 4387817393722.0

yield_bpm1i04Y_rms vs Slug, Sign Corrected



Right In: 0.003 $\pm$ 0.000 χ^2 /NDF: 4129693.4/27

Left Out: 0.005 $\pm$ 0.000 χ^2 /NDF:2114007.7/24

Right Out: 0.003 $\pm$ 0.000 χ^2 /NDF: 4466076.6/32

Left In: 0.005 $\pm$ 0.000 χ^2 /NDF:2237666.9/22

Left: 0.005 $\pm$ 0.000 χ^2 /NDF: 4356682.7/47

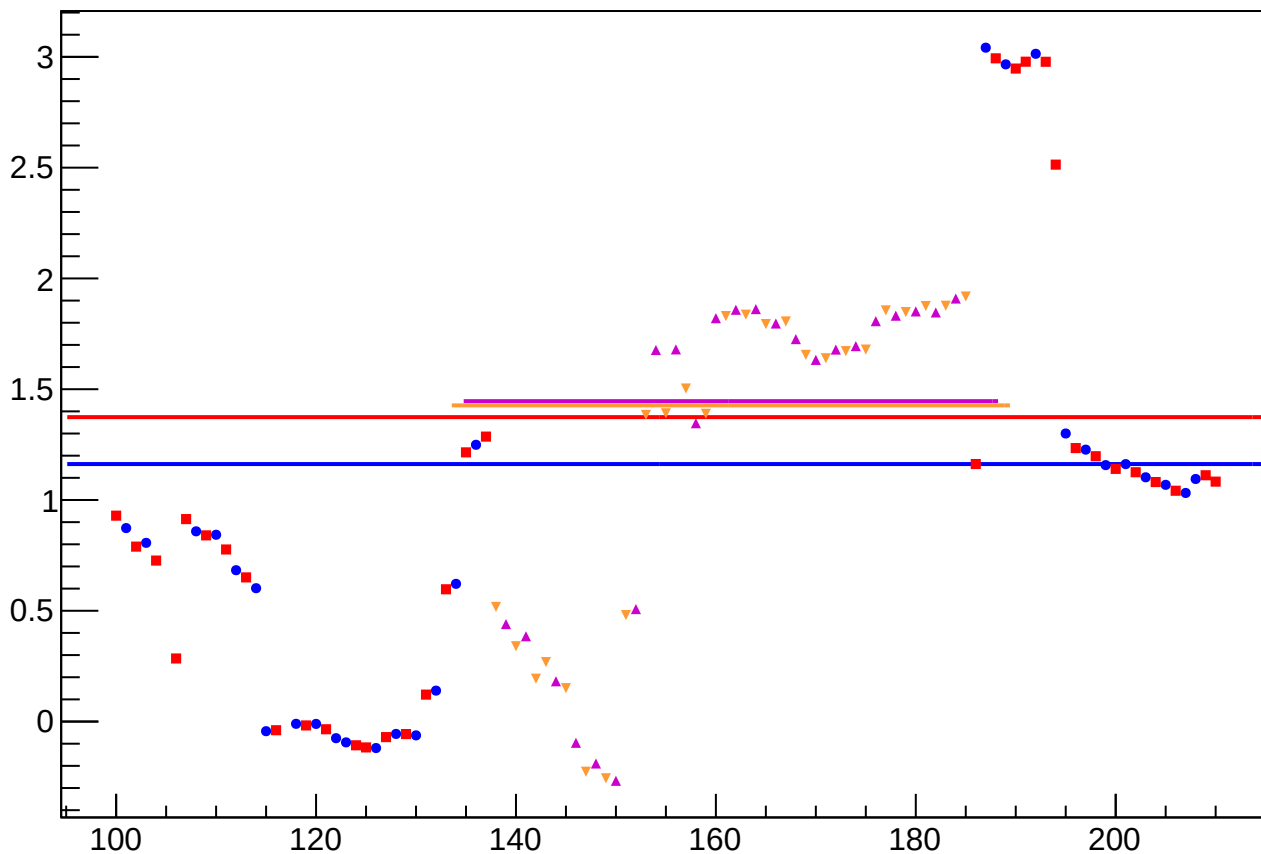
Right: 0.003 $\pm$ 0.000 χ^2 /NDF: 8613812.9/60

In: 0.003 $\pm$ 0.000 χ^2 /NDF:9822544.4/50

Out: 0.003 $\pm$ 0.000 χ^2 /NDF:11111281.8/57

All: 0.003 $\pm$ 0.000 χ^2 /NDF: 20972445.5/108

yield_bpm1i06X_mean vs Slug, Sign Corrected



Right In: 1.162+/-0.000

χ^2/NDF : 72794159230.0/27

Left Out: 1.427+/-0.000

χ^2/NDF : 49990787038.3/24

Right Out: 1.374+/-0.000

χ^2/NDF : 100838454509.0/32

Left In: 1.446+/-0.000

χ^2/NDF : 53752493130.3/22

Left: 1.436+/-0.000

χ^2/NDF : 103768857952.7/47

Right: 1.278+/-0.000

χ^2/NDF : 175675244610.8/60

In: 1.339+/-0.000

χ^2/NDF : 130736472864.5/50

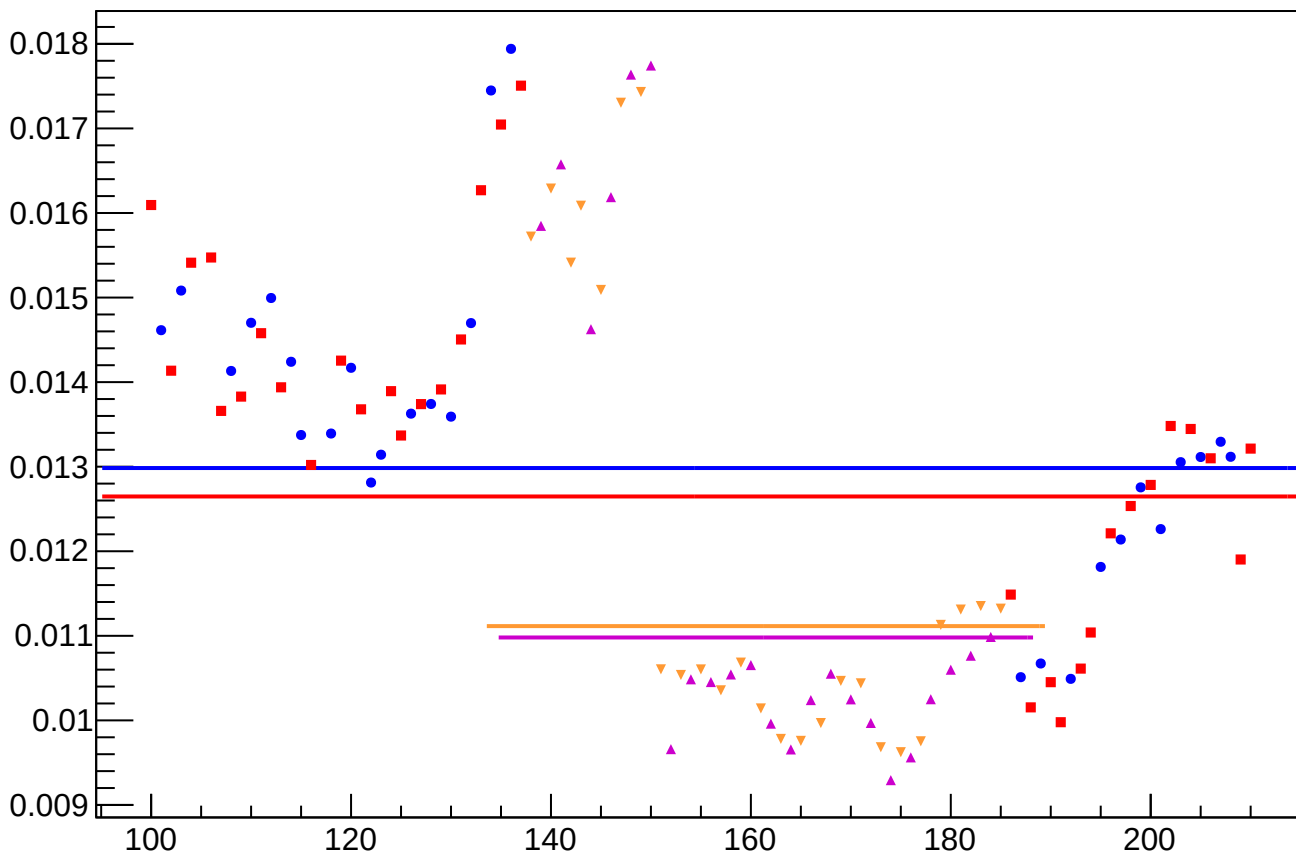
Out: 1.405+/-0.000

χ^2/NDF : 150994413521.6/57

All: 1.373+/-0.000

χ^2/NDF : 282240247696.6

yield_bpm1i06X_rms vs Slug, Sign Corrected



Right In: 0.013 $\pm$ 0.000 χ^2 /NDF: 436163.1/27

Left Out: 0.011 $\pm$ 0.000 χ^2 /NDF:1227493.2/24

Right Out: 0.013 $\pm$ 0.000 χ^2 /NDF: 568714.1/32

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

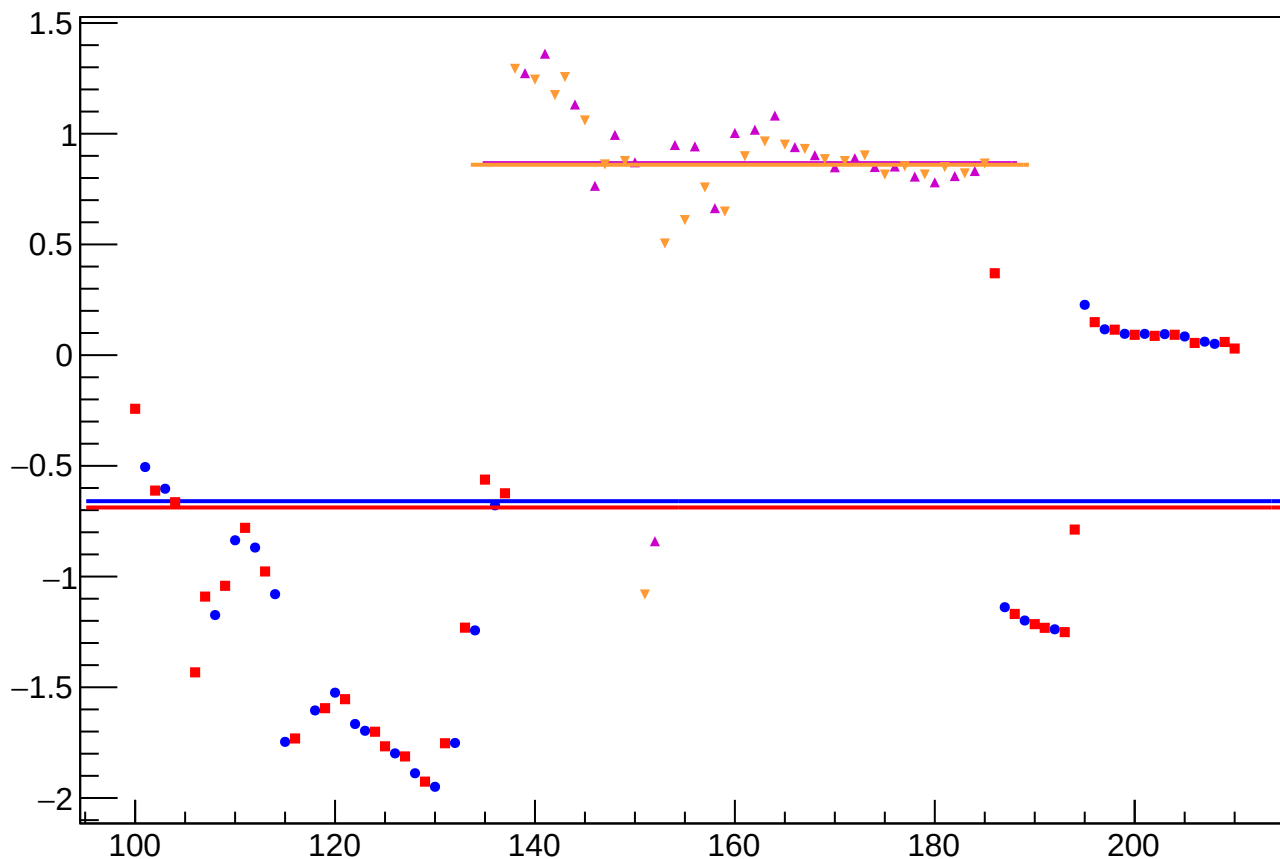
Right: 0.013 $\pm$ 0.000 χ^2 /NDF: 1015182.2/60

In: 0.012 $\pm$ 0.000 χ^2 /NDF:2118329.7/50

Out: 0.012 $\pm$ 0.000 χ^2 /NDF:2072250.0/57

All: 0.012 $\pm$ 0.000 χ^2 /NDF: 4190600.6/108

yield_bpm1i06Y_mean vs Slug, Sign Corrected



Right In: -0.659+/-0.000

χ^2/NDF : 177685317968.8/27

Left: 0.863+/-0.000 χ^2/NDF : 273407894621.9/47

Right: -0.675+/-0.000 χ^2/NDF : 351447660458.5/60

Left Out: 0.860+/-0.000

χ^2/NDF : 126335891175.4/24

In: 0.525+/-0.000 χ^2/NDF : 955021679682.8/50

Right Out: -0.688+/-0.000

χ^2/NDF : 173610589560.0/32

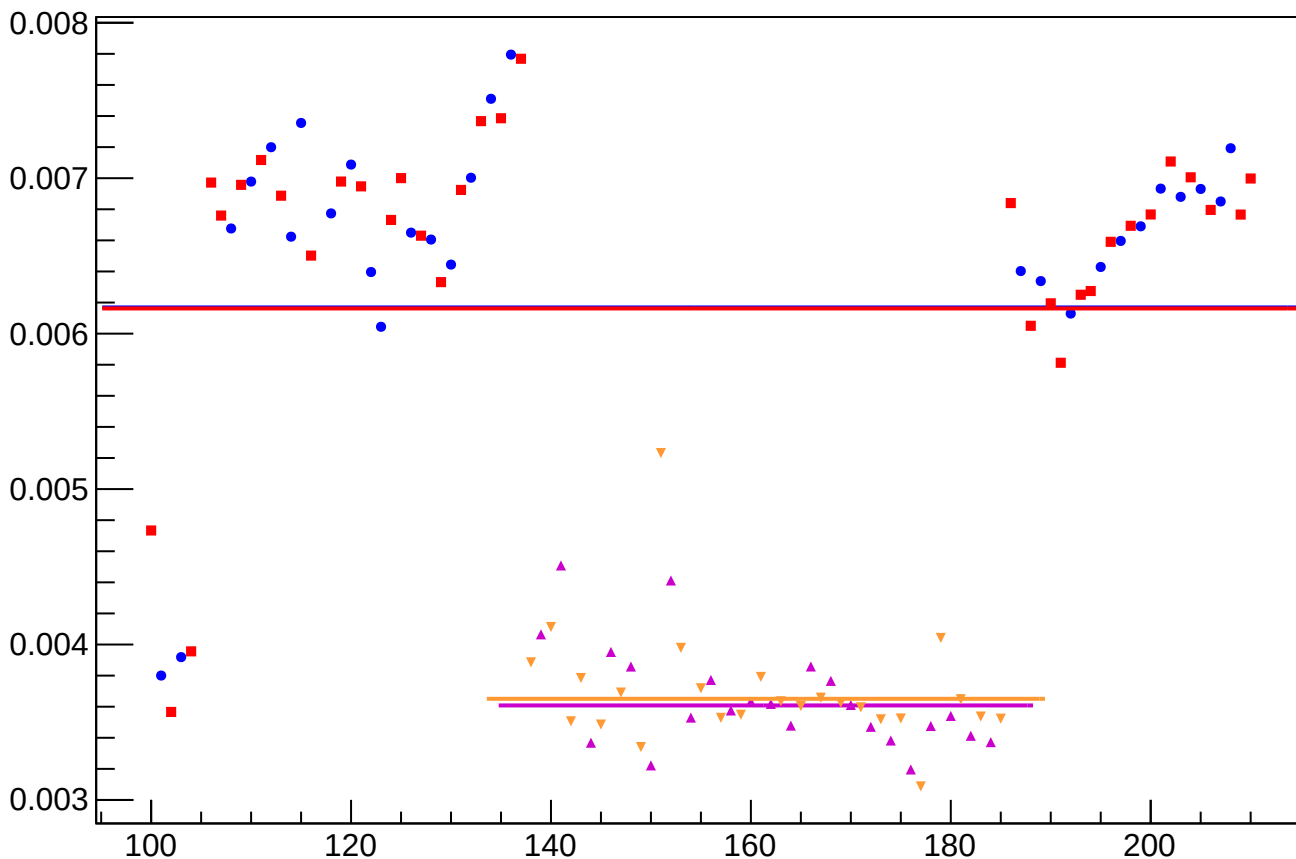
Out: 0.486+/-0.000 χ^2/NDF : 1026086473879.2/57

Left In: 0.867+/-0.000

χ^2/NDF : 147039402944.6/22

All: 0.505+/-0.000 χ^2/NDF : 1982360283209.

yield_bpm1i06Y_rms vs Slug, Sign Corrected



Right In: 0.006 $\pm$ 0.000 χ^2 /NDF: 1023551.3/27

Left Out: 0.004 $\pm$ 0.000 χ^2 /NDF:237262.6/24

Right Out: 0.006 $\pm$ 0.000 χ^2 /NDF: 1121781.4/32

Left In: 0.004 $\pm$ 0.000 χ^2 /NDF:227861.4/22

Left: 0.004 $\pm$ 0.000 χ^2 /NDF: 467360.2/47

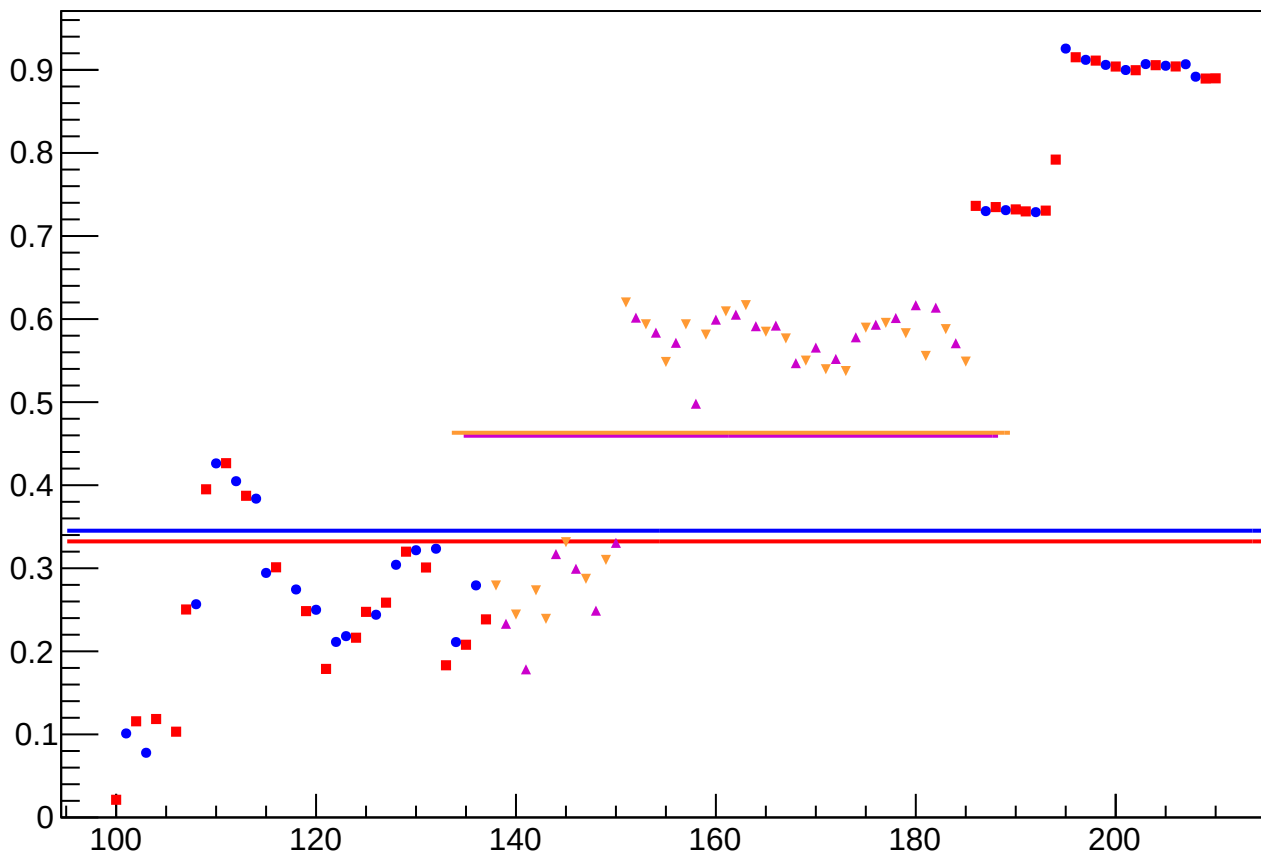
Right: 0.006 $\pm$ 0.000 χ^2 /NDF: 2145348.6/60

In: 0.004 $\pm$ 0.000 χ^2 /NDF:4797218.7/50

Out: 0.004 $\pm$ 0.000 χ^2 /NDF:5181337.5/57

All: 0.004 $\pm$ 0.000 χ^2 /NDF: 9987864.1/108

yield_bpm2i01X_mean vs Slug, Sign Corrected



Right In: 0.345+/-0.000

χ^2/NDF : 157307458986.8/27

Left: 0.461+/-0.000 χ^2/NDF : 207093695005.5/47

Right: 0.338+/-0.000 χ^2/NDF : 341599146451.6/60

Left Out: 0.463+/-0.000

χ^2/NDF : 102506270538.7/24

In: 0.413+/-0.000 χ^2/NDF : 284087053180.7/50

Right Out: 0.332+/-0.000

χ^2/NDF : 184040582531.7/32

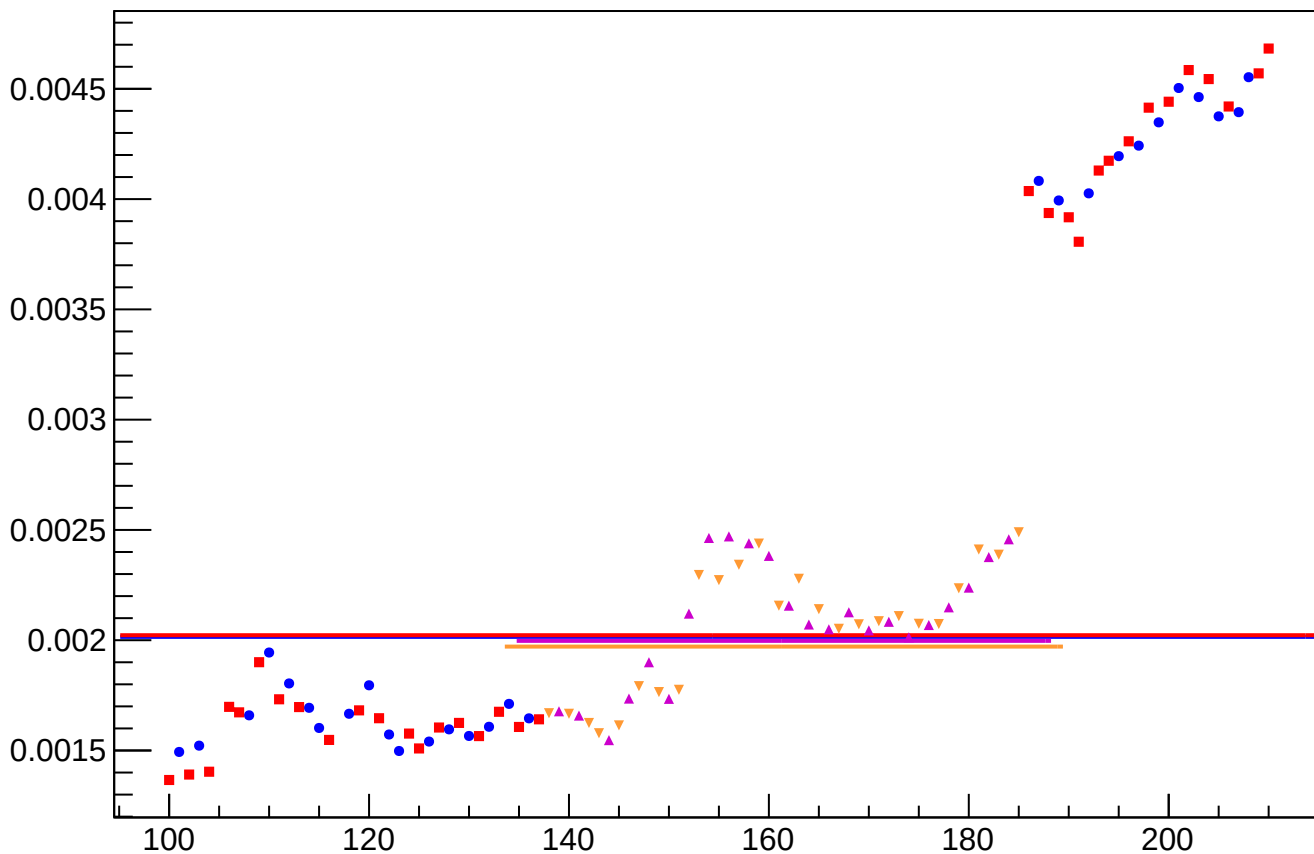
Out: 0.409+/-0.000 χ^2/NDF : 318975523114.8/57

Left In: 0.460+/-0.000

χ^2/NDF : 104559088628.4/22

All: 0.411+/-0.000 χ^2/NDF : 603125244043.9

yield_bpm2i01X_rms vs Slug, Sign Corrected



Right In: 0.002 $\pm$ 0.000 χ^2 /NDF: 5165046.5/27

Left Out: 0.002 $\pm$ 0.000 χ^2 /NDF:730203.8/24

Right Out: 0.002 $\pm$ 0.000 χ^2 /NDF: 6359146.9/32

Left In: 0.002 $\pm$ 0.000 χ^2 /NDF:666404.2/22

Left: 0.002 $\pm$ 0.000 χ^2 /NDF: 1399578.1/47

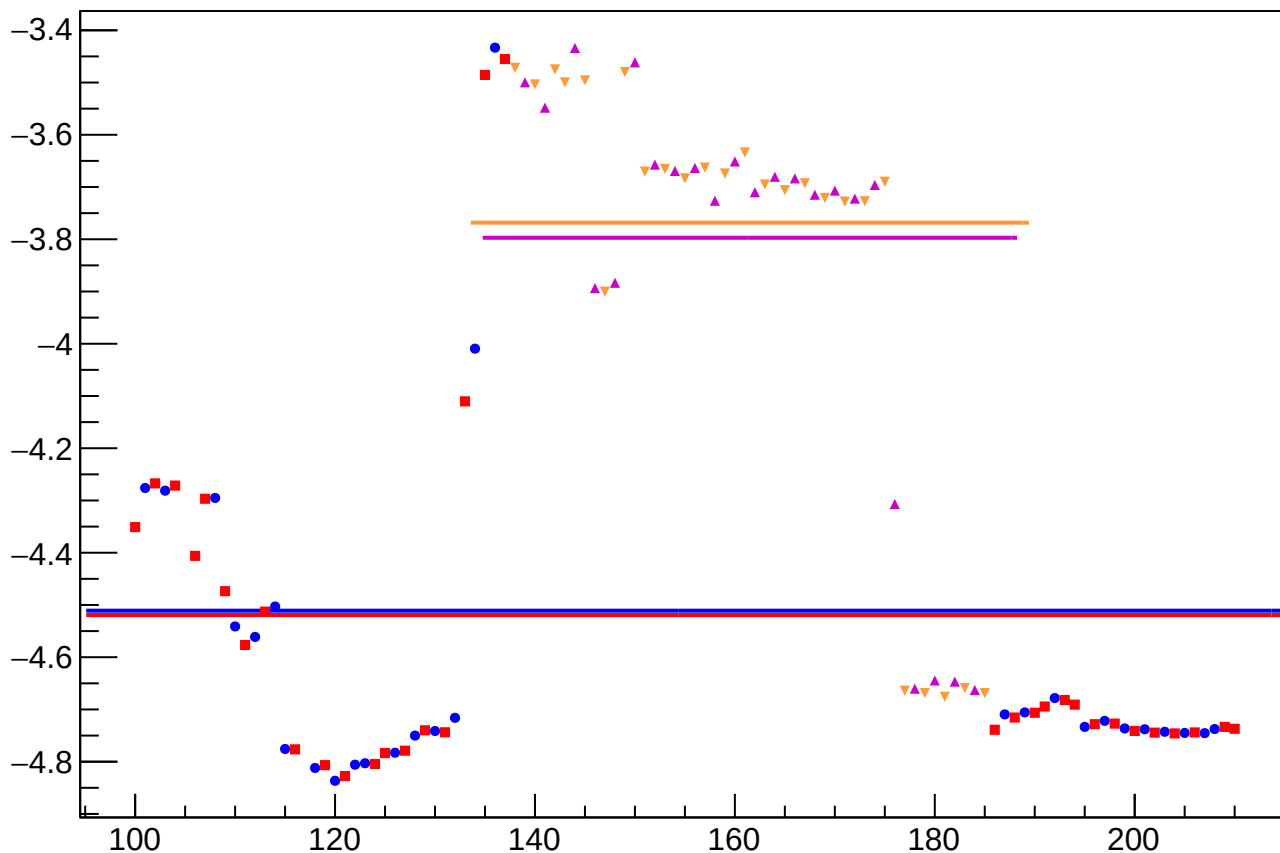
Right: 0.002 $\pm$ 0.000 χ^2 /NDF: 11524362.3/60

In: 0.002 $\pm$ 0.000 χ^2 /NDF:5832569.2/50

Out: 0.002 $\pm$ 0.000 χ^2 /NDF:7099446.0/57

All: 0.002 $\pm$ 0.000 χ^2 /NDF: 12933094.9/108

yield_bpm2i01Y_mean vs Slug, Sign Corrected



Right In: -4.511+/-0.000

χ^2/NDF : 436061110773.3/27

Left: -3.782+/-0.000

χ^2/NDF : 963205684454.6/47

Left Out: -3.768+/-0.000

χ^2/NDF : 516780173940.8/24

Right: -4.515+/-0.000

χ^2/NDF : 812368909983.2/60

Right Out: -4.519+/-0.000

χ^2/NDF : 376210196154.1/32

In: -4.104+/-0.000

χ^2/NDF : 1658721599063.3/50

Out: -4.098+/-0.000

χ^2/NDF : 1837775240342.7/57

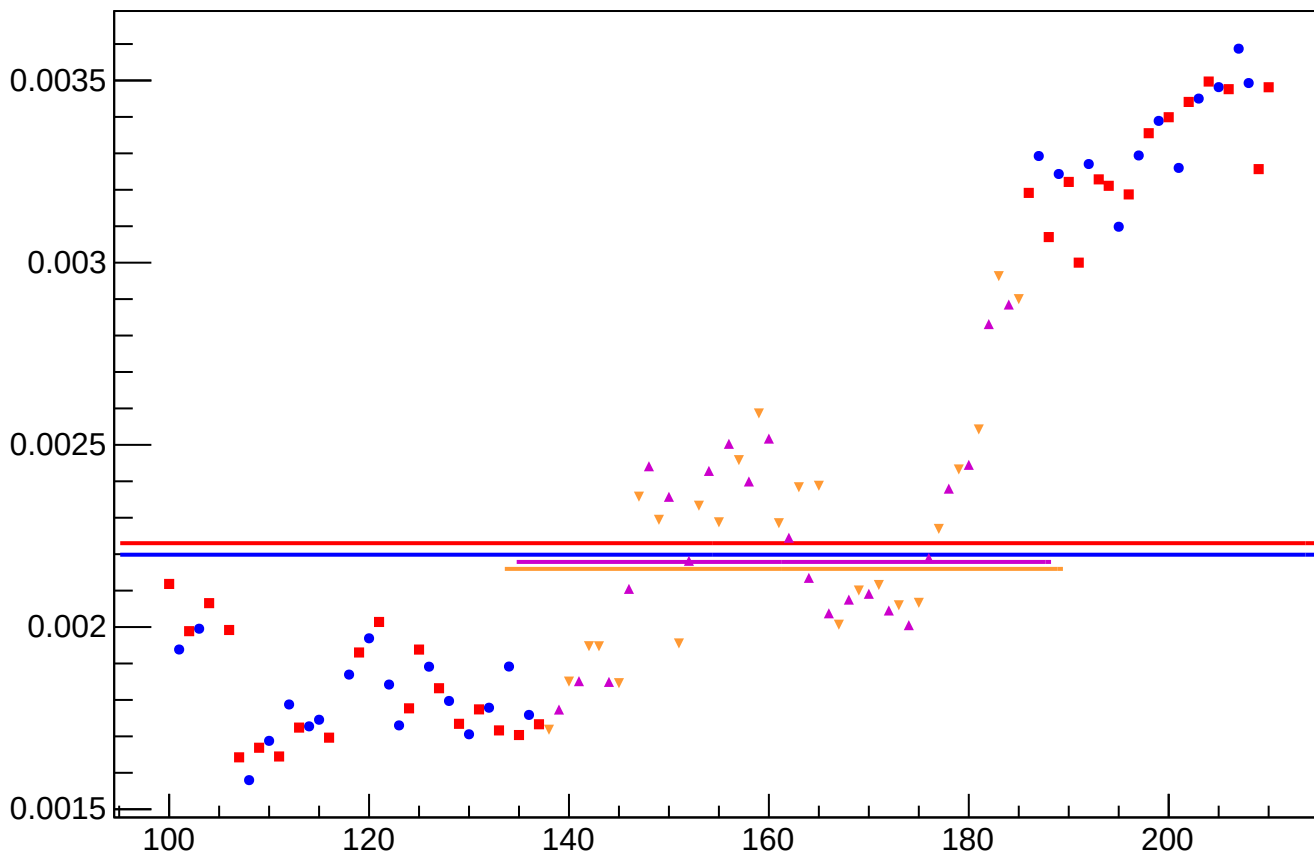
Left In: -3.797+/-0.000

χ^2/NDF : 444886272608.9/22

All: -4.101+/-0.000

χ^2/NDF : 3496611368976

yield_bpm2i01Y_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 2499025.7/27

Left Out: 0.002+/-0.000 χ^2/NDF :547831.5/24

Right Out: 0.002+/-0.000 χ^2/NDF : 2862095.8/32

Left In: 0.002+/-0.000 χ^2/NDF :463279.7/22

Left: 0.002+/-0.000 χ^2/NDF : 1012449.5/47

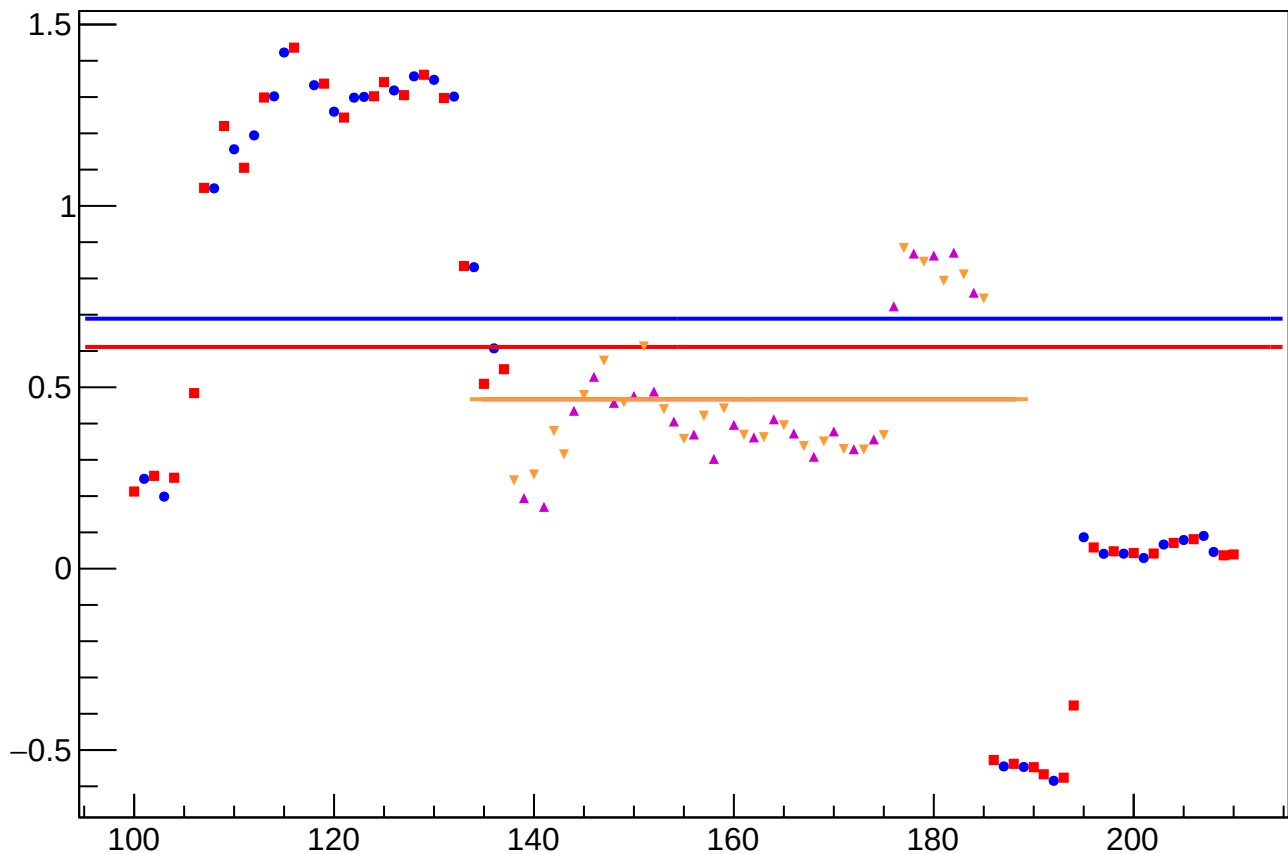
Right: 0.002+/-0.000 χ^2/NDF : 5363946.3/60

In: 0.002+/-0.000 χ^2/NDF :2963504.4/50

Out: 0.002+/-0.000 χ^2/NDF :3426587.6/57

All: 0.002+/-0.000 χ^2/NDF : 6390166.4/108

yield_bpm2i02X_mean vs Slug, Sign Corrected



Right In: 0.689+/-0.000

χ^2/NDF : 77190225365.5/27

Left: 0.467+/-0.000

χ^2/NDF : 15396100488.4/47

Left Out: 0.467+/-0.000

χ^2/NDF : 7359344143.3/24

Right: 0.647+/-0.000

χ^2/NDF : 177066154852.7/60

Right Out: 0.611+/-0.000

χ^2/NDF : 99278379606.8/32

In: 0.575+/-0.000

χ^2/NDF : 89883142797.2/50

Out: 0.540+/-0.000

χ^2/NDF : 108820454778.8/57

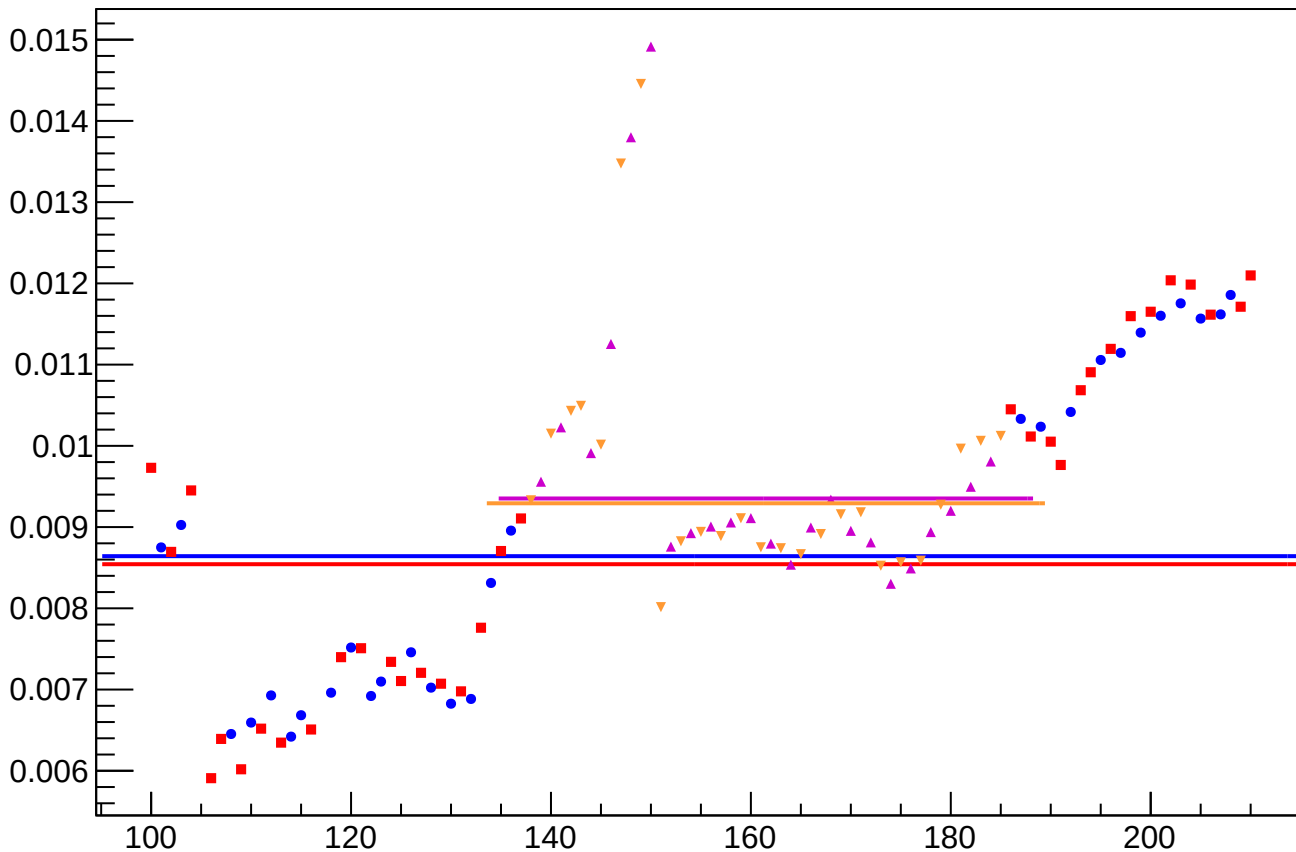
Left In: 0.467+/-0.000

χ^2/NDF : 8036741308.0/22

All: 0.556+/-0.000

χ^2/NDF : 198946013352.5

yield_bpm2i02X_rms vs Slug, Sign Corrected



Right In: 0.009+/-0.000 χ^2/NDF : 1433207.8/27

Left Out: 0.009+/-0.000 χ^2/NDF :528279.5/24

Right Out: 0.009+/-0.000 χ^2/NDF : 1921717.0/32

Left In: 0.009+/-0.000 χ^2/NDF :557555.2/22

Left: 0.009+/-0.000 χ^2/NDF : 1086539.3/47

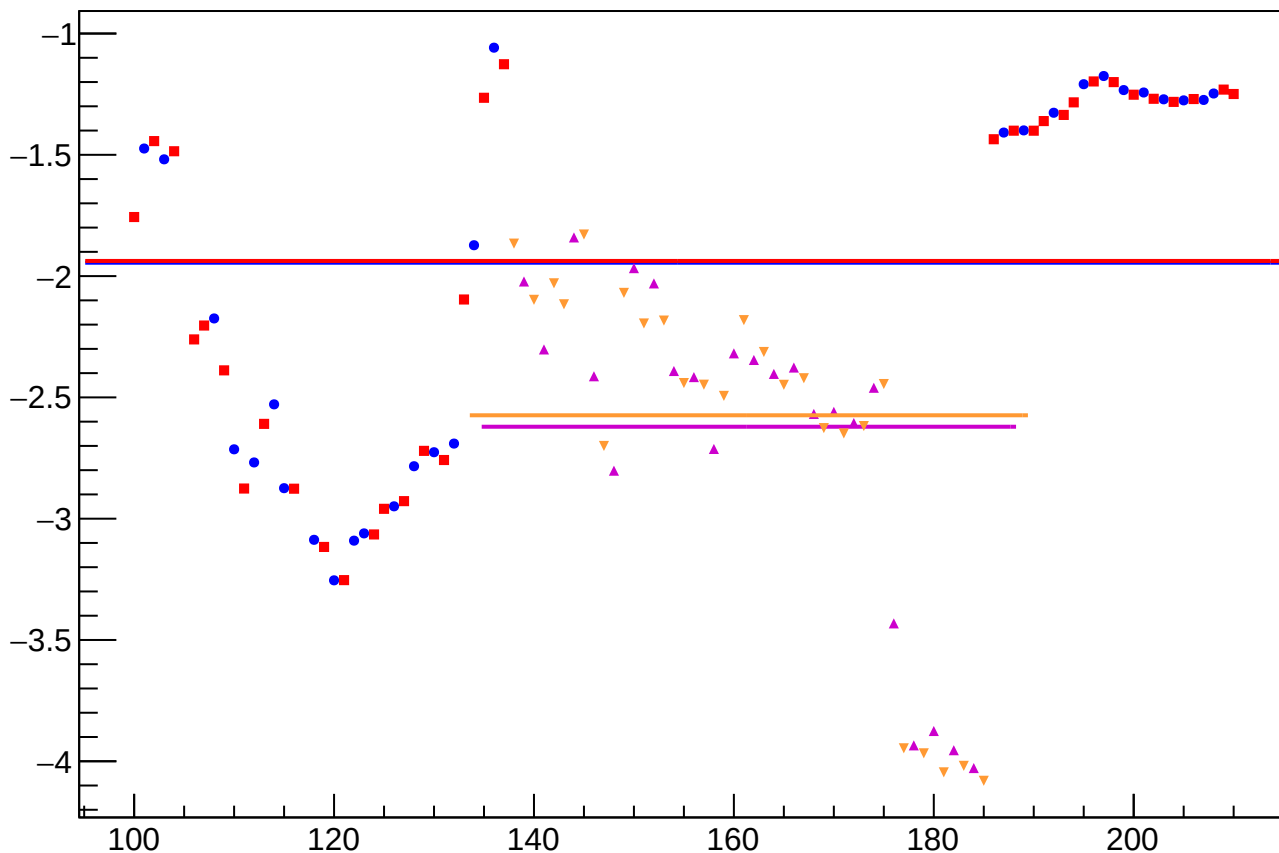
Right: 0.009+/-0.000 χ^2/NDF : 3356850.9/60

In: 0.009+/-0.000 χ^2/NDF :2085819.9/50

Out: 0.009+/-0.000 χ^2/NDF :2568480.8/57

All: 0.009+/-0.000 χ^2/NDF : 4657723.2/108

yield_bpm2i02Y_mean vs Slug, Sign Corrected



Right In: -1.945+/-0.000

χ^2/NDF : 126717272423.7/27

Left: -2.597+/-0.000

χ^2/NDF : 180296288698.4/47

Right: -1.941+/-0.000

χ^2/NDF : 255033272707.2/60

Left Out: -2.574+/-0.000

χ^2/NDF : 99176112704.9/24

In: -2.287+/-0.000

χ^2/NDF : 258169694341.1/50

Right Out: -1.938+/-0.000

χ^2/NDF : 128309893043.7/32

Out: -2.251+/-0.000

χ^2/NDF : 276716672563.8/57

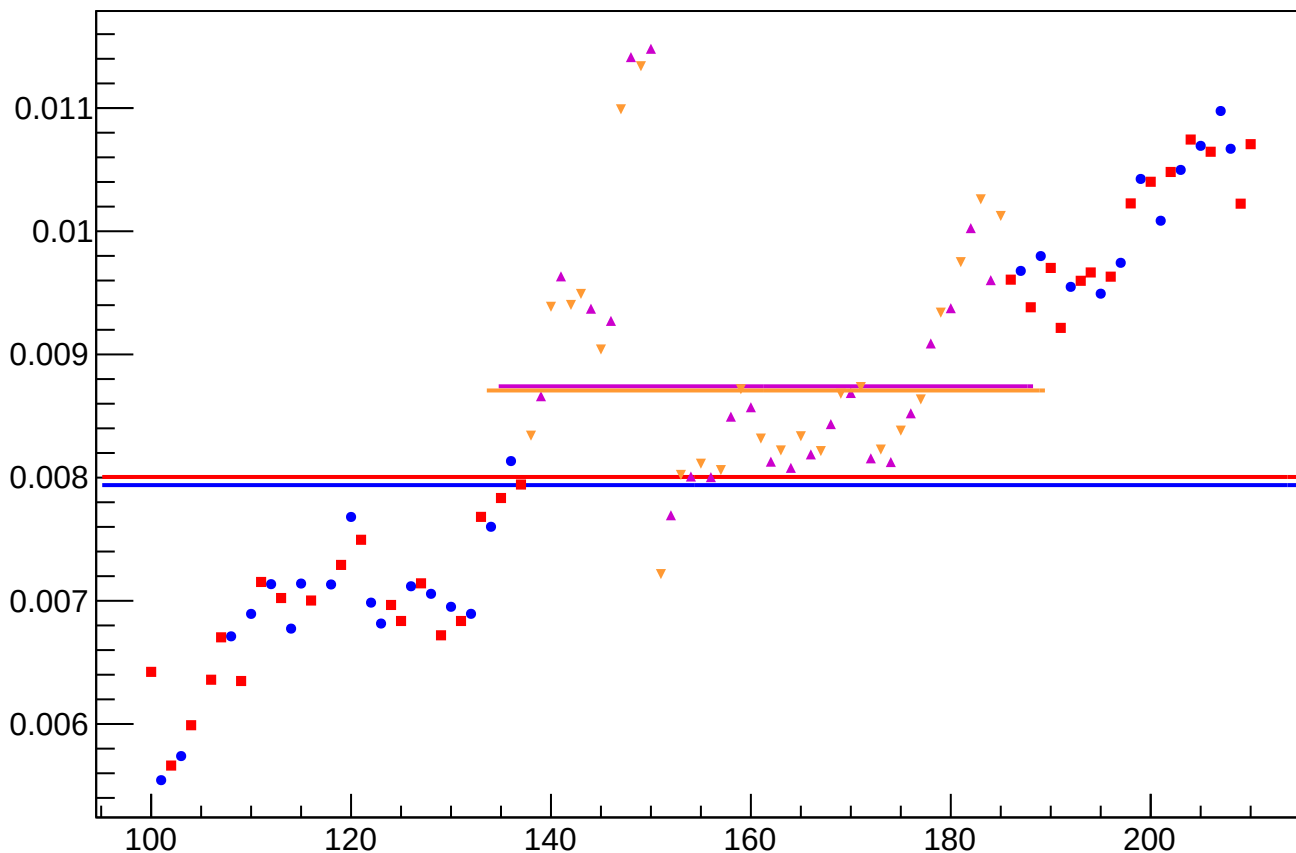
Left In: -2.621+/-0.000

χ^2/NDF : 80862402796.4/22

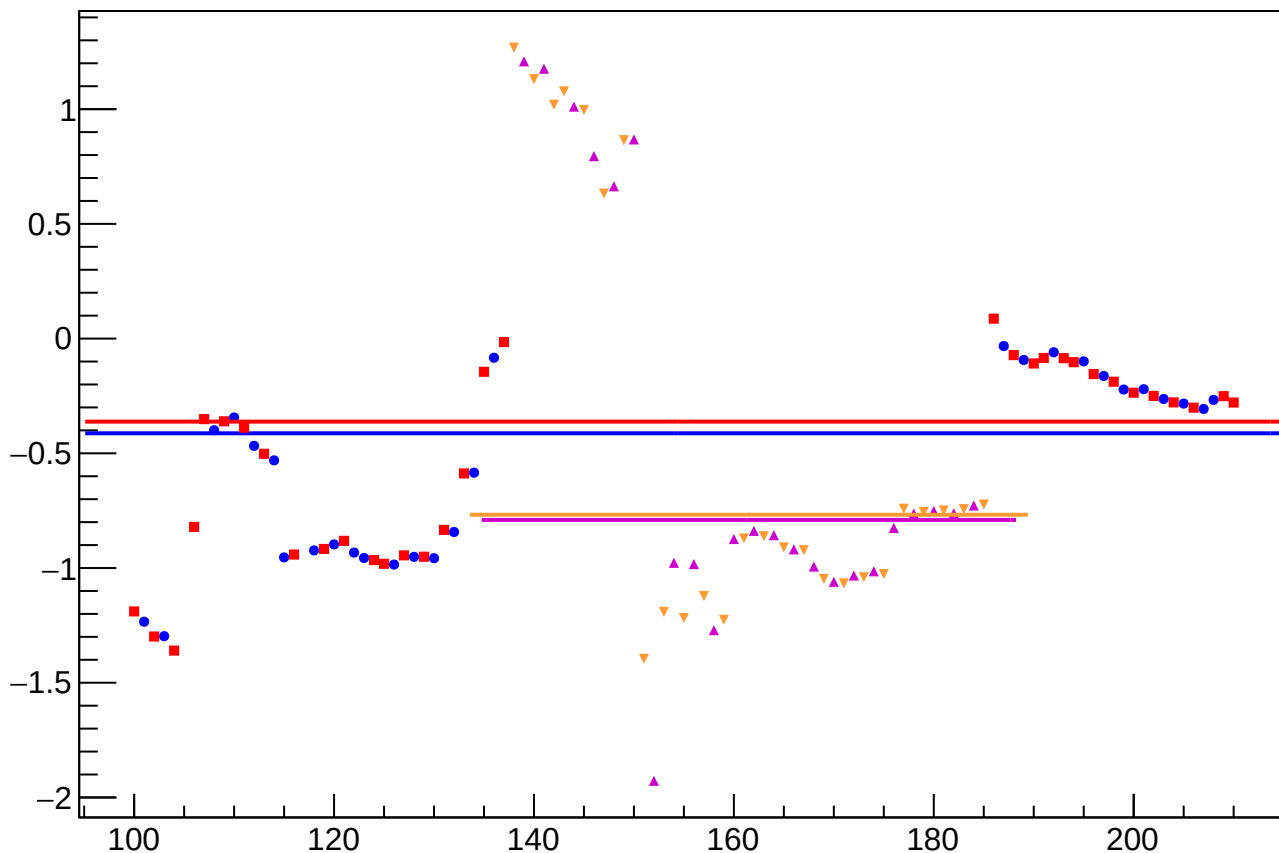
All: -2.268+/-0.000

χ^2/NDF : 535195426062.7

yield_bpm2i02Y_rms vs Slug, Sign Corrected



yield_bpm0i01X_mean vs Slug, Sign Corrected



Right In: -0.413+/-0.000 χ^2/NDF : 22642238690.7/27

Left Out: -0.768+/-0.000 χ^2/NDF : 120774855982.9/24

Right Out: -0.362+/-0.000 χ^2/NDF : 25287656828.5/32

Left In: -0.790+/-0.000 χ^2/NDF : 123452478408.2/22

Left: -0.779+/-0.000 χ^2/NDF : 244297726249.8/47

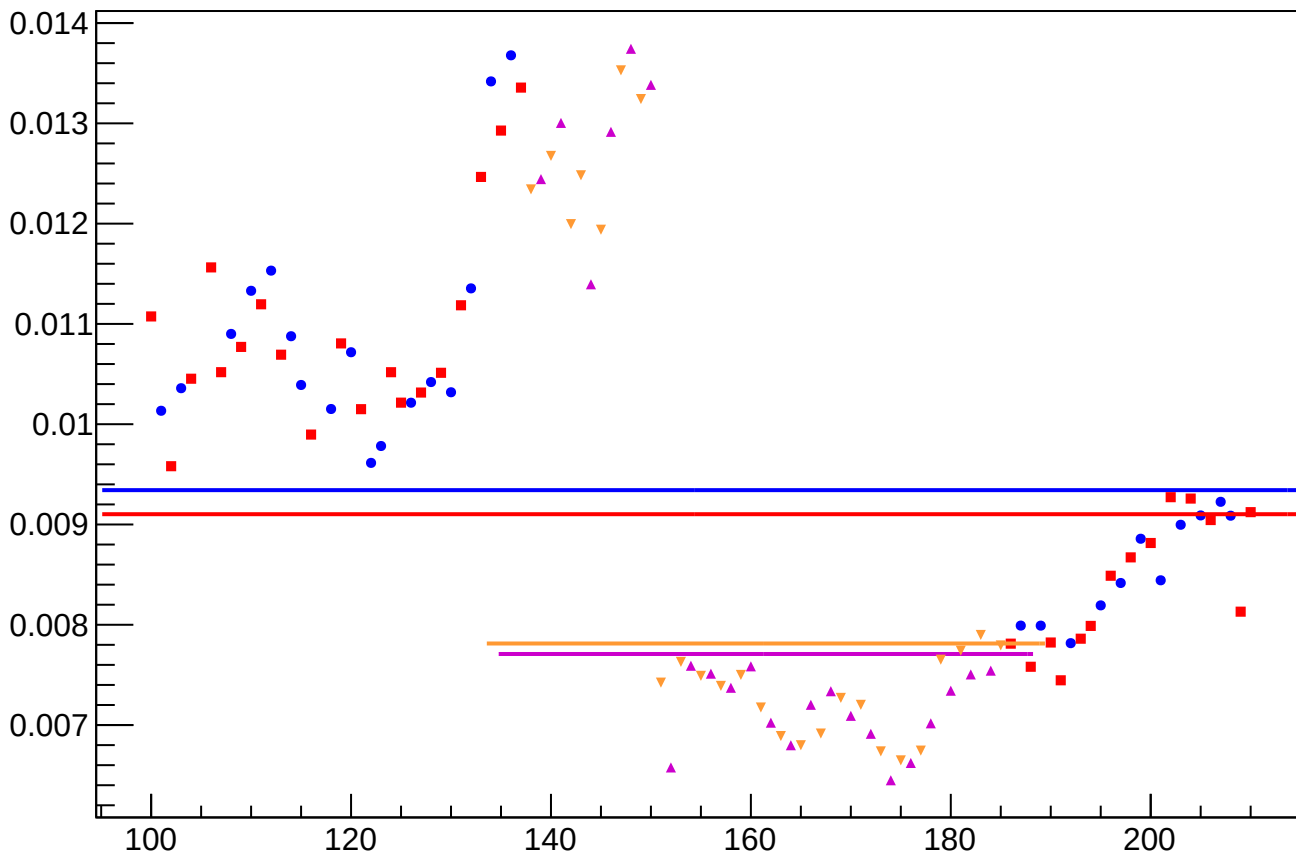
Right: -0.385+/-0.000 χ^2/NDF : 48155653746.1/60

In: -0.651+/-0.000 χ^2/NDF : 160450939233.3/50

Out: -0.603+/-0.000 χ^2/NDF : 164868640593.4/57

All: -0.626+/-0.000 χ^2/NDF : 325824298670.6

yield_bpm0i01X_rms vs Slug, Sign Corrected



Right In: 0.009+/-0.000 χ^2/NDF : 541988.8/27

Left Out: 0.008+/-0.000 χ^2/NDF :1705997.6/24

Right Out: 0.009+/-0.000 χ^2/NDF : 650311.7/32

Left In: 0.008+/-0.000 χ^2/NDF :1746653.6/22

Left: 0.008+/-0.000 χ^2/NDF : 3455681.9/47

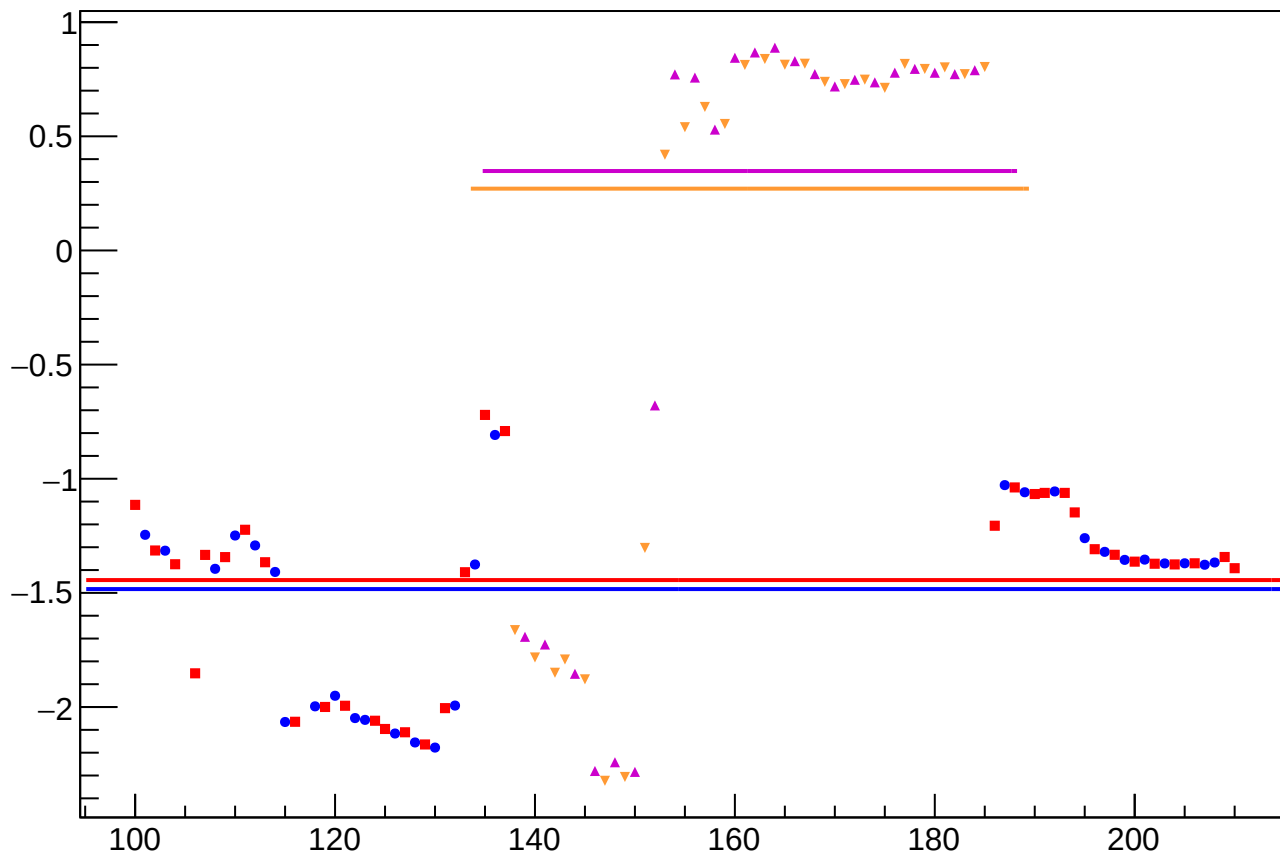
Right: 0.009+/-0.000 χ^2/NDF : 1202334.4/60

In: 0.008+/-0.000 χ^2/NDF :2826303.9/50

Out: 0.008+/-0.000 χ^2/NDF :2735841.5/57

All: 0.008+/-0.000 χ^2/NDF : 5562371.4/108

yield_bpm0i01Y_mean vs Slug, Sign Corrected



Right In: -1.483+/-0.000

χ^2/NDF : 174591746133.1/27

Left Out: 0.271+/-0.000

χ^2/NDF : 2583233987355.9/24

Right Out: -1.444+/-0.000

χ^2/NDF : 164511760603.6/32

Left In: 0.348+/-0.000

χ^2/NDF : 2274004426513.8/22

Left: 0.308+/-0.000 χ^2/NDF : 4864843200778.2/47

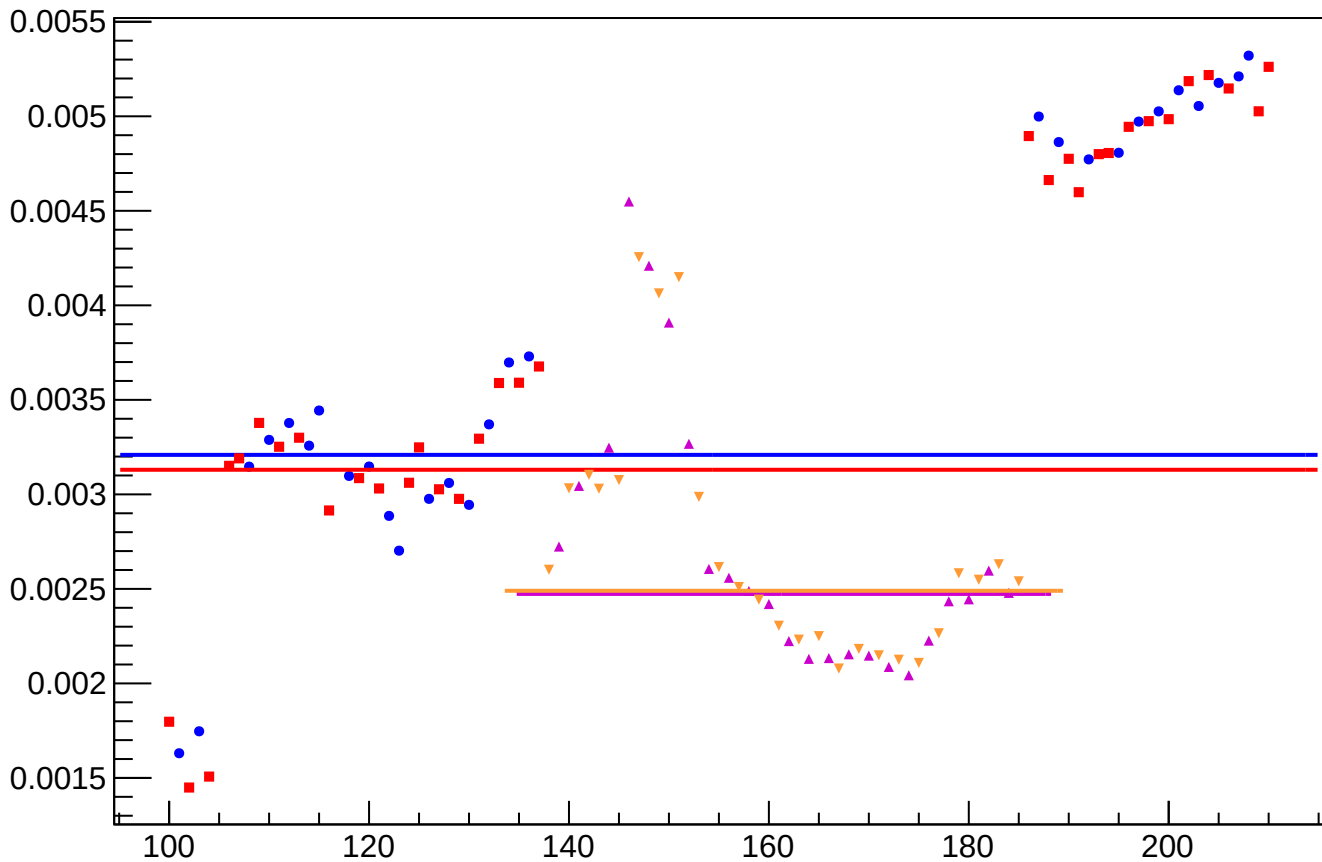
Right: -1.462+/-0.000 χ^2/NDF : 340066970090.8/60

In: -0.231+/-0.000 χ^2/NDF : 5080916170959.3/50

Out: -0.309+/-0.000 χ^2/NDF : 5355552544298.7/57

All: -0.272+/-0.000 χ^2/NDF : 1044807484707

yield_bpm0i01Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 3666607.7/27

Left Out: 0.002+/-0.000 χ^2/NDF :1070282.7/24

Right Out: 0.003+/-0.000 χ^2/NDF : 4976340.9/32

Left In: 0.002+/-0.000 χ^2/NDF :1135279.8/22

Left: 0.002+/-0.000 χ^2/NDF : 2206266.8/47

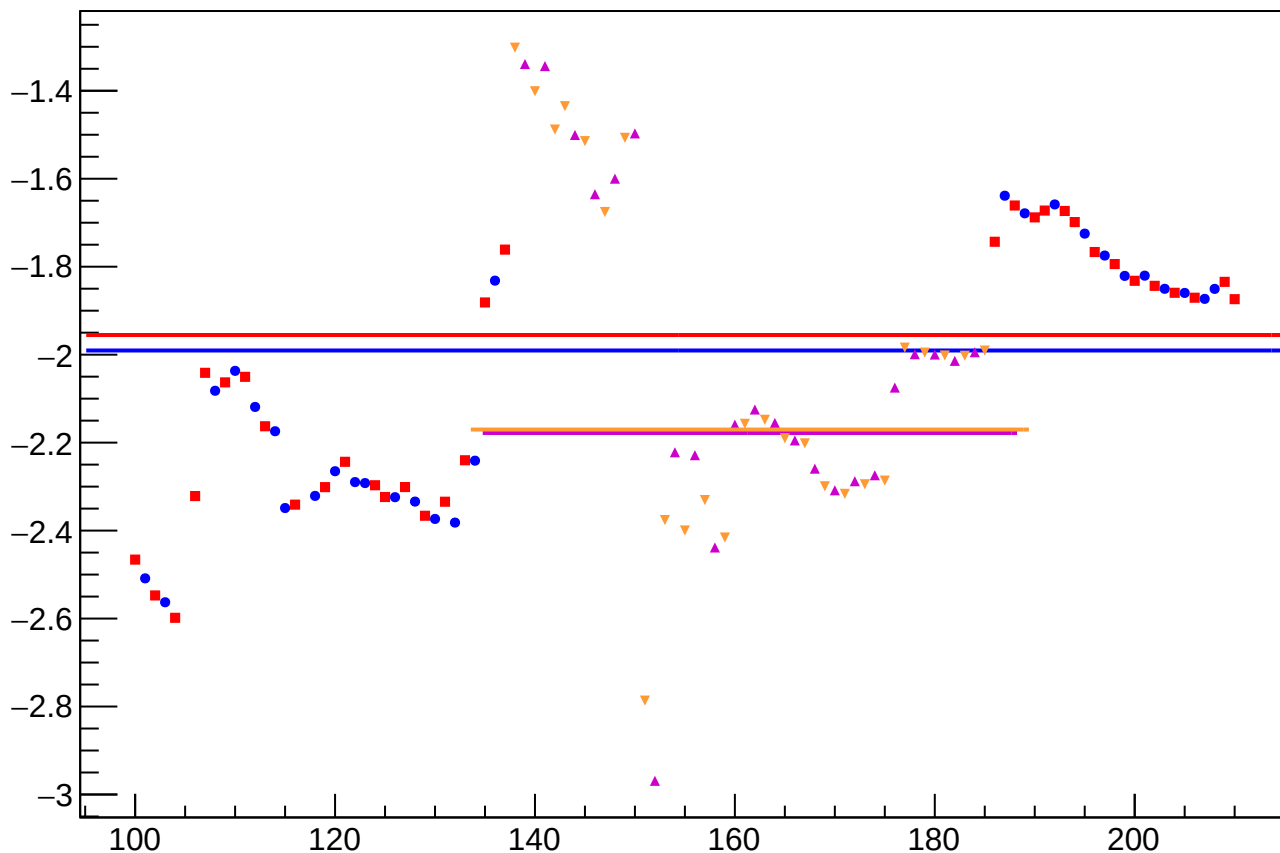
Right: 0.003+/-0.000 χ^2/NDF : 8650627.4/60

In: 0.003+/-0.000 χ^2/NDF :5651253.0/50

Out: 0.003+/-0.000 χ^2/NDF :6773641.0/57

All: 0.003+/-0.000 χ^2/NDF : 12424895.4/108

yield_bpm0i01aX_mean vs Slug, Sign Corrected



Right In: -1.990+/-0.000 χ^2/NDF : 30839406064.9/27

Left Out: -2.170+/-0.000 χ^2/NDF : 59967315241.9/24

Right Out: -1.955+/-0.000 χ^2/NDF : 35264985082.1/32

Left In: -2.178+/-0.000 χ^2/NDF : 73402051113.3/22

Left: -2.174+/-0.000 χ^2/NDF : 133392029481.5/47

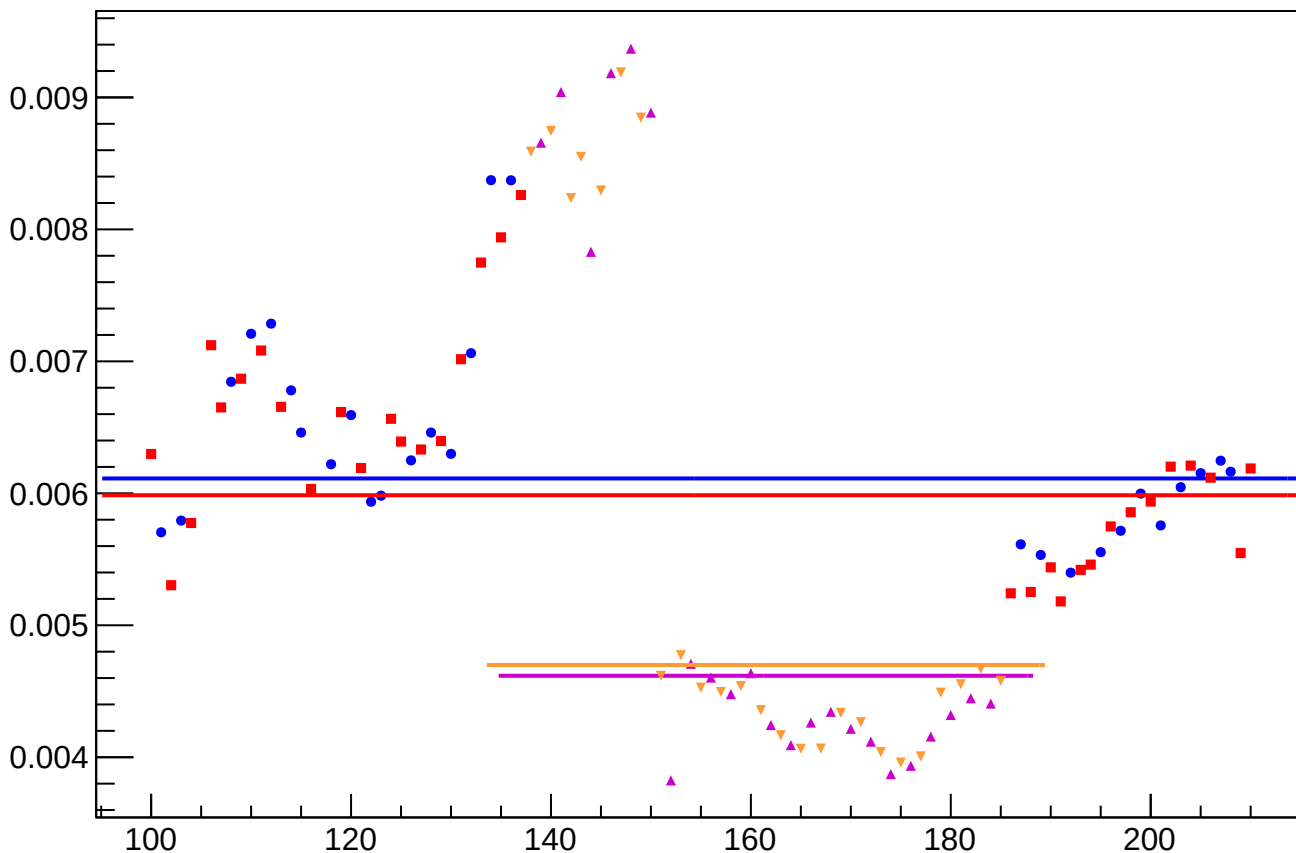
Right: -1.971+/-0.000 χ^2/NDF : 66355572009.9/60

In: -2.115+/-0.000 χ^2/NDF : 112938689393.6/50

Out: -2.091+/-0.000 χ^2/NDF : 108161253936.1/57

All: -2.102+/-0.000 χ^2/NDF : 221436093745.0

yield_bpm0i01aX_rms vs Slug, Sign Corrected



Right In: 0.006 $\pm$ 0.000 χ^2 /NDF: 302819.6/27

Left Out: 0.005 $\pm$ 0.000 χ^2 /NDF:2319588.7/24

Right Out: 0.006 $\pm$ 0.000 χ^2 /NDF: 364151.1/32

Left In: 0.005 $\pm$ 0.000 χ^2 /NDF:2367440.9/22

Left: 0.005 $\pm$ 0.000 χ^2 /NDF: 4691984.4/47

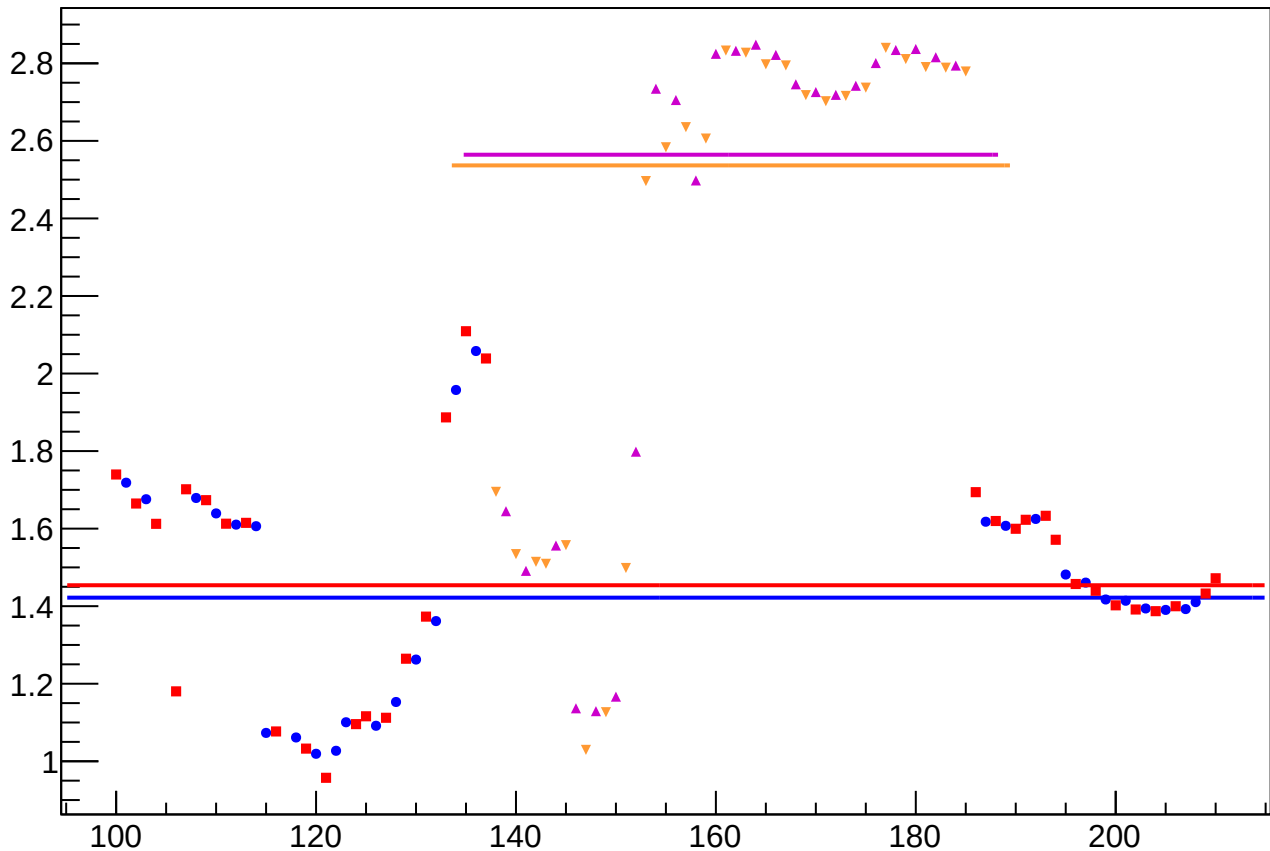
Right: 0.006 $\pm$ 0.000 χ^2 /NDF: 673532.6/60

In: 0.005 $\pm$ 0.000 χ^2 /NDF:3775681.2/50

Out: 0.005 $\pm$ 0.000 χ^2 /NDF:3610086.3/57

All: 0.005 $\pm$ 0.000 χ^2 /NDF: 7389090.7/108

yield_bpm0i01aY_mean vs Slug, Sign Corrected



Right In: 1.422+/-0.000

χ^2/NDF : 174159204898.9/27

Left Out: 2.537+/-0.000

χ^2/NDF : 269554948115.3/24

Right Out: 1.454+/-0.000

χ^2/NDF : 176999680745.8/32

Left In: 2.564+/-0.000

χ^2/NDF : 260287937727.8/22

Left: 2.550+/-0.000

χ^2/NDF : 530319507083.6/47

Right: 1.439+/-0.000

χ^2/NDF : 352094738166.1/60

In: 1.890+/-0.000

χ^2/NDF : 1379104377709.6/50

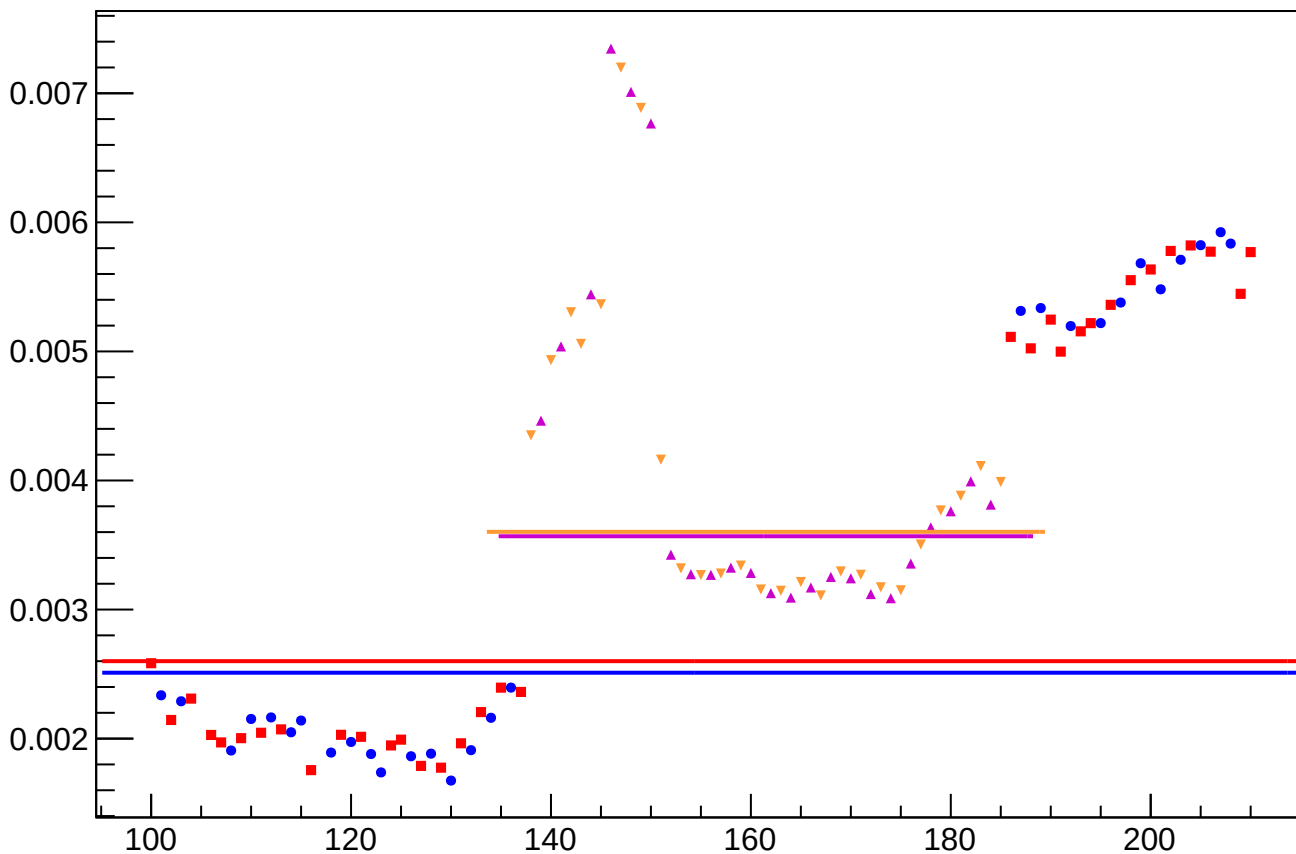
Out: 1.893+/-0.000

χ^2/NDF : 1344834261695.6/57

All: 1.891+/-0.000

χ^2/NDF : 2723951519793.

yield_bpm0i01aY_rms vs Slug, Sign Corrected



Right In: 0.003 $\pm$ 0.000 χ^2 /NDF: 5498292.5/27

Left Out: 0.004 $\pm$ 0.000 χ^2 /NDF:1410717.8/24

Right Out: 0.003 $\pm$ 0.000 χ^2 /NDF: 6257163.3/32

Left In: 0.004 $\pm$ 0.000 χ^2 /NDF:1563028.0/22

Left: 0.004 $\pm$ 0.000 χ^2 /NDF: 2975225.3/47

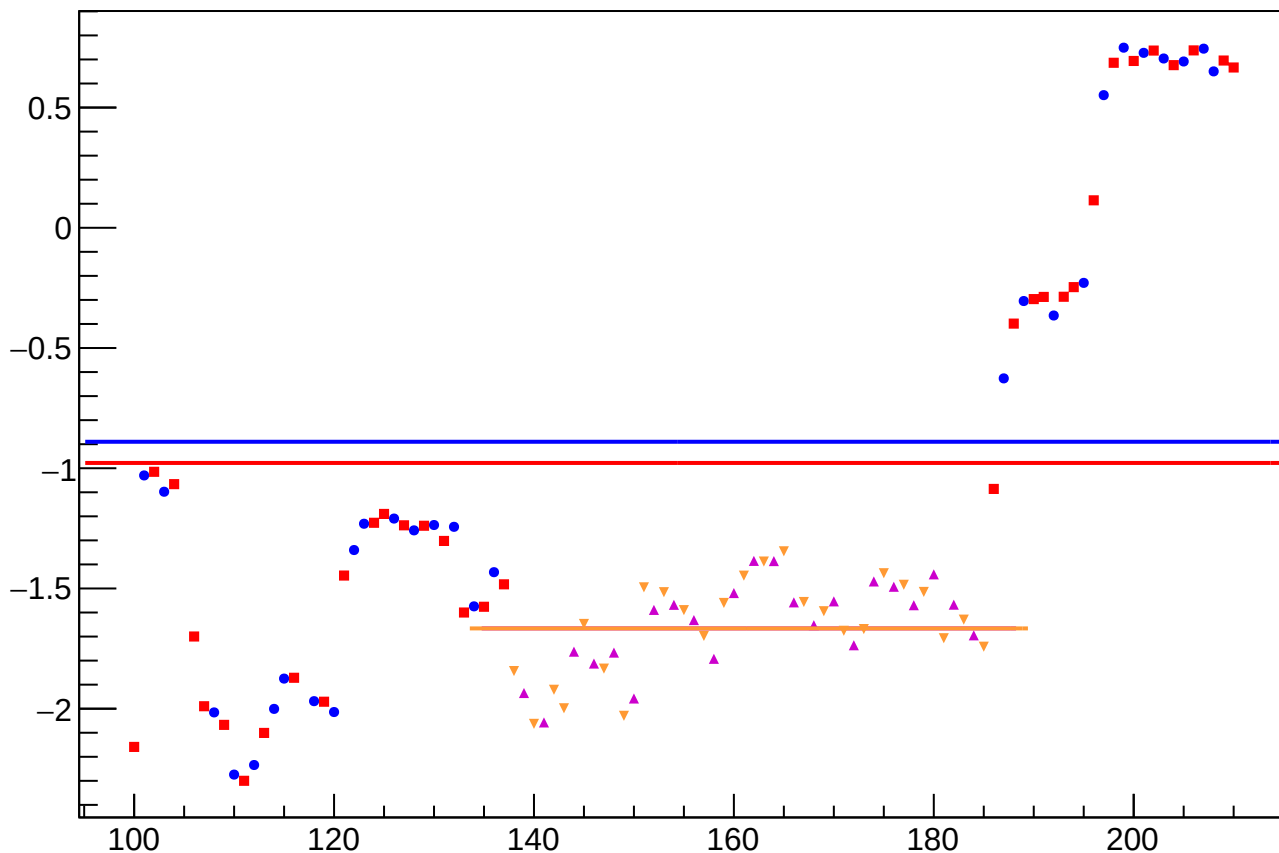
Right: 0.003 $\pm$ 0.000 χ^2 /NDF: 11770109.8/60

In: 0.003 $\pm$ 0.000 χ^2 /NDF:8679929.5/50

Out: 0.003 $\pm$ 0.000 χ^2 /NDF:9206649.5/57

All: 0.003 $\pm$ 0.000 χ^2 /NDF: 17898646.4/108

yield_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -0.890+/-0.000

χ²/NDF: 193328540363.0/27

Left: -1.666+/-0.000

χ²/NDF: 32617732948.1/47

Left Out: -1.666+/-0.000

χ²/NDF: 18325162131.2/24

Right: -0.938+/-0.000

χ²/NDF: 433752249156.1/60

Right Out: -0.978+/-0.000

χ²/NDF: 239549417072.0/32

In: -1.407+/-0.000

χ²/NDF: 290143406931.9/50

Out: -1.418+/-0.000

χ²/NDF: 333178883562.1/57

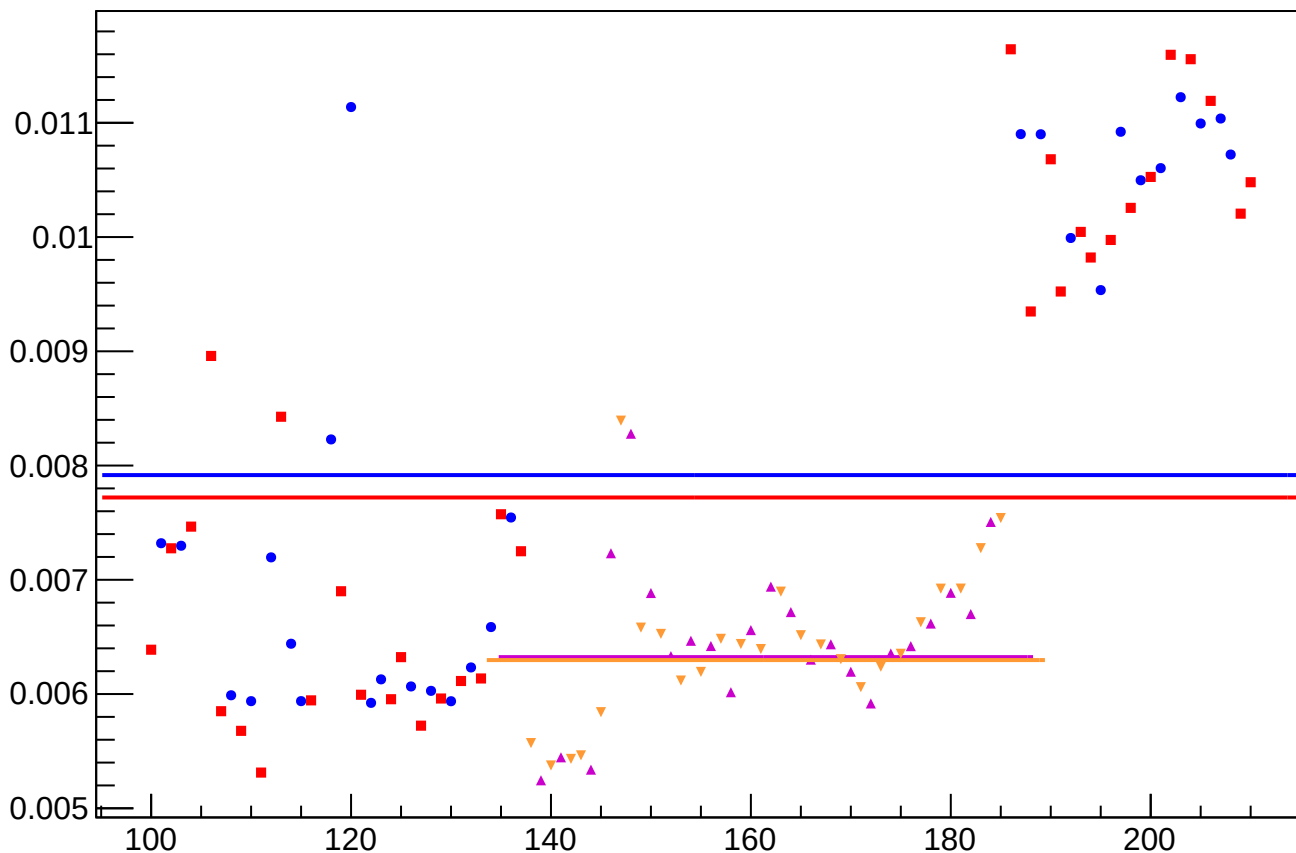
Left In: -1.666+/-0.000

χ²/NDF: 14292570816.9/22

All: -1.413+/-0.000

χ²/NDF: 623361915499.9

yield_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 1676132.2/27

Left Out: 0.006+/-0.000 χ^2/NDF :310757.0/24

Right Out: 0.008+/-0.000 χ^2/NDF : 2102188.1/32

Left In: 0.006+/-0.000 χ^2/NDF :330859.7/22

Left: 0.006+/-0.000 χ^2/NDF : 641901.9/47

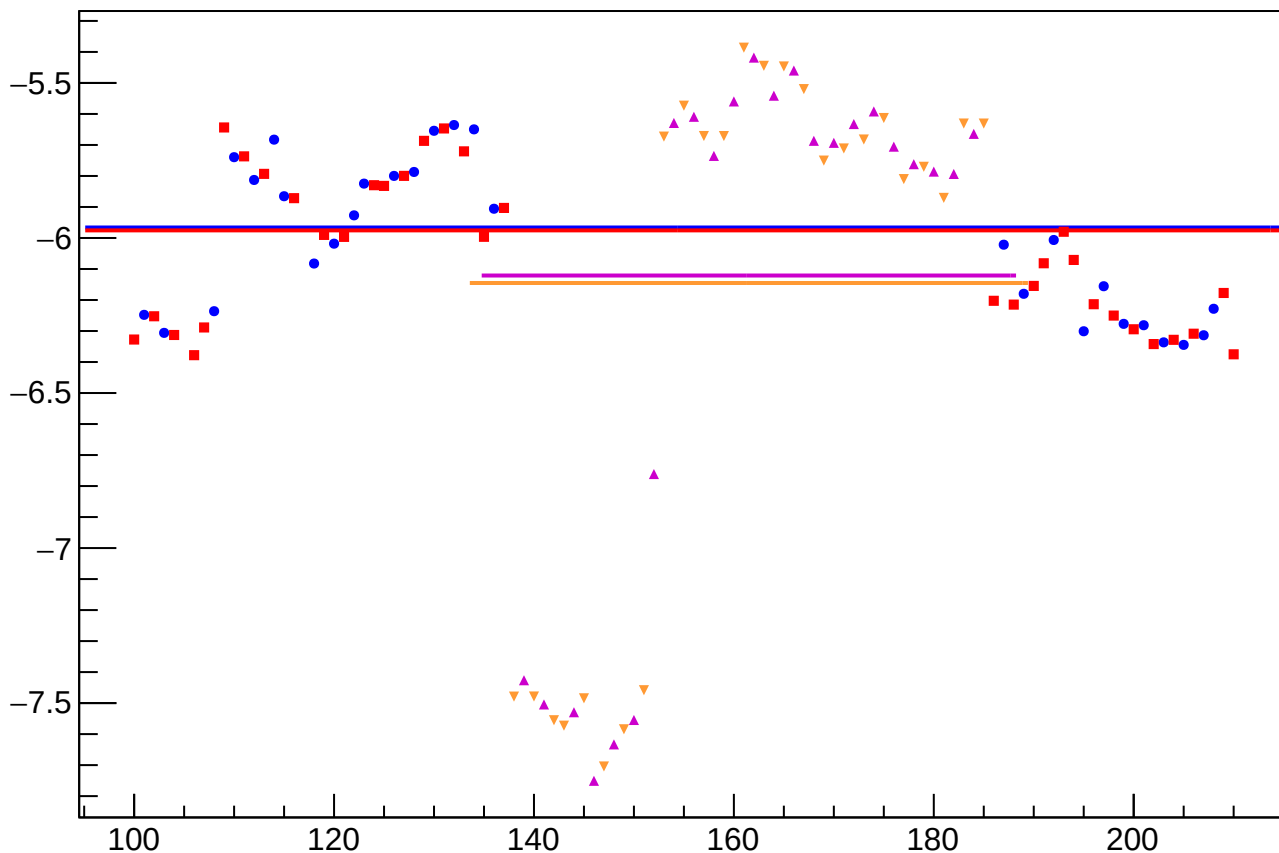
Right: 0.008+/-0.000 χ^2/NDF : 3786976.5/60

In: 0.007+/-0.000 χ^2/NDF :2702353.1/50

Out: 0.007+/-0.000 χ^2/NDF :3057161.7/57

All: 0.007+/-0.000 χ^2/NDF : 5760814.6/108

yield_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: -5.966+/-0.000 χ^2/NDF : 15254370871.3/27

Left Out: -6.145+/-0.000 χ^2/NDF : 185364150237.7/24

Right Out: -5.975+/-0.000 χ^2/NDF : 17099659381.3/32

Left In: -6.121+/-0.000 χ^2/NDF : 158315913062.3/22

Left: -6.133+/-0.000 χ^2/NDF : 343753122832.9/47

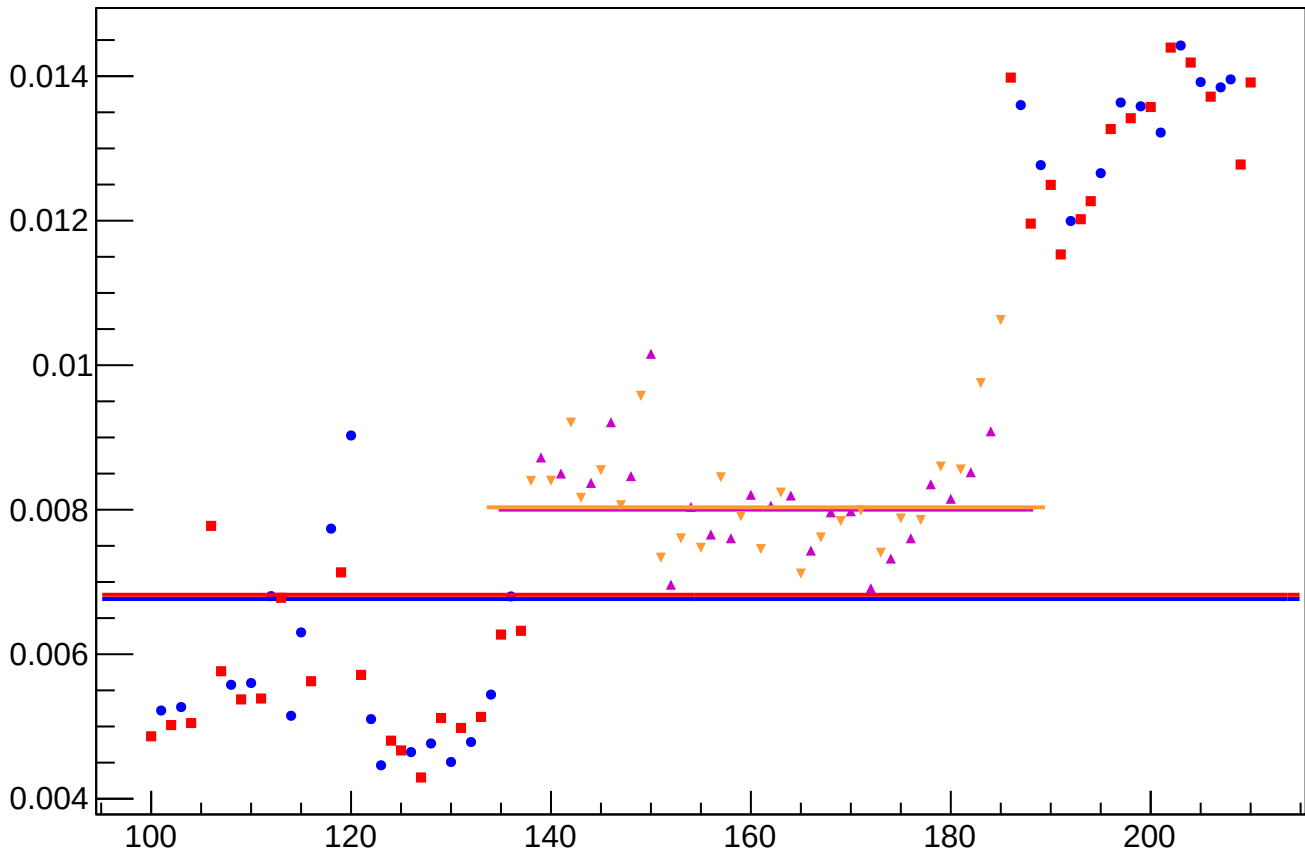
Right: -5.971+/-0.000 χ^2/NDF : 32365156197.9/60

In: -6.044+/-0.000 χ^2/NDF : 176511107135.7/50

Out: -6.057+/-0.000 χ^2/NDF : 206295779029.3/57

All: -6.051+/-0.000 χ^2/NDF : 382851791281.7

yield_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 4777185.7/27

Left Out: 0.008+/-0.000 χ^2/NDF :205762.2/24

Right Out: 0.007+/-0.000 χ^2/NDF : 5405597.4/32

Left In: 0.008+/-0.000 χ^2/NDF :220756.1/22

Left: 0.008+/-0.000 χ^2/NDF : 426763.2/47

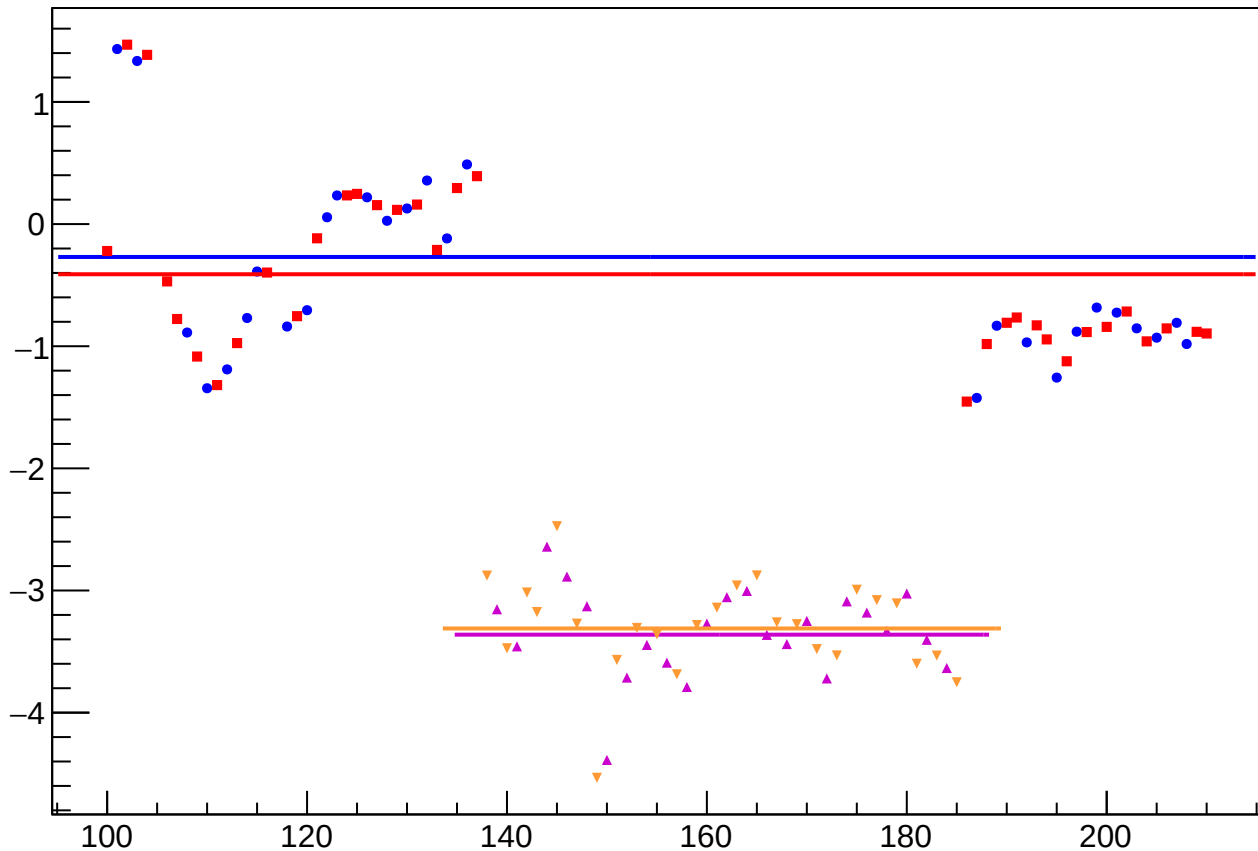
Right: 0.007+/-0.000 χ^2/NDF : 10183680.3/60

In: 0.007+/-0.000 χ^2/NDF :5373522.6/50

Out: 0.007+/-0.000 χ^2/NDF :6000940.1/57

All: 0.007+/-0.000 χ^2/NDF : 11374672.7/108

yield_bpm0l02X_mean vs Slug, Sign Corrected



Right In: -0.269+/-0.000 χ^2/NDF : 31670588295.0/27

Left Out: -3.311+/-0.000 χ^2/NDF : 9354397456.2/24

Right Out: -0.411+/-0.000 χ^2/NDF : 33326031966.6/32

Left In: -3.362+/-0.000 χ^2/NDF : 8171803777.4/22

Left: -3.336+/-0.000 χ^2/NDF : 17613895190.9/47

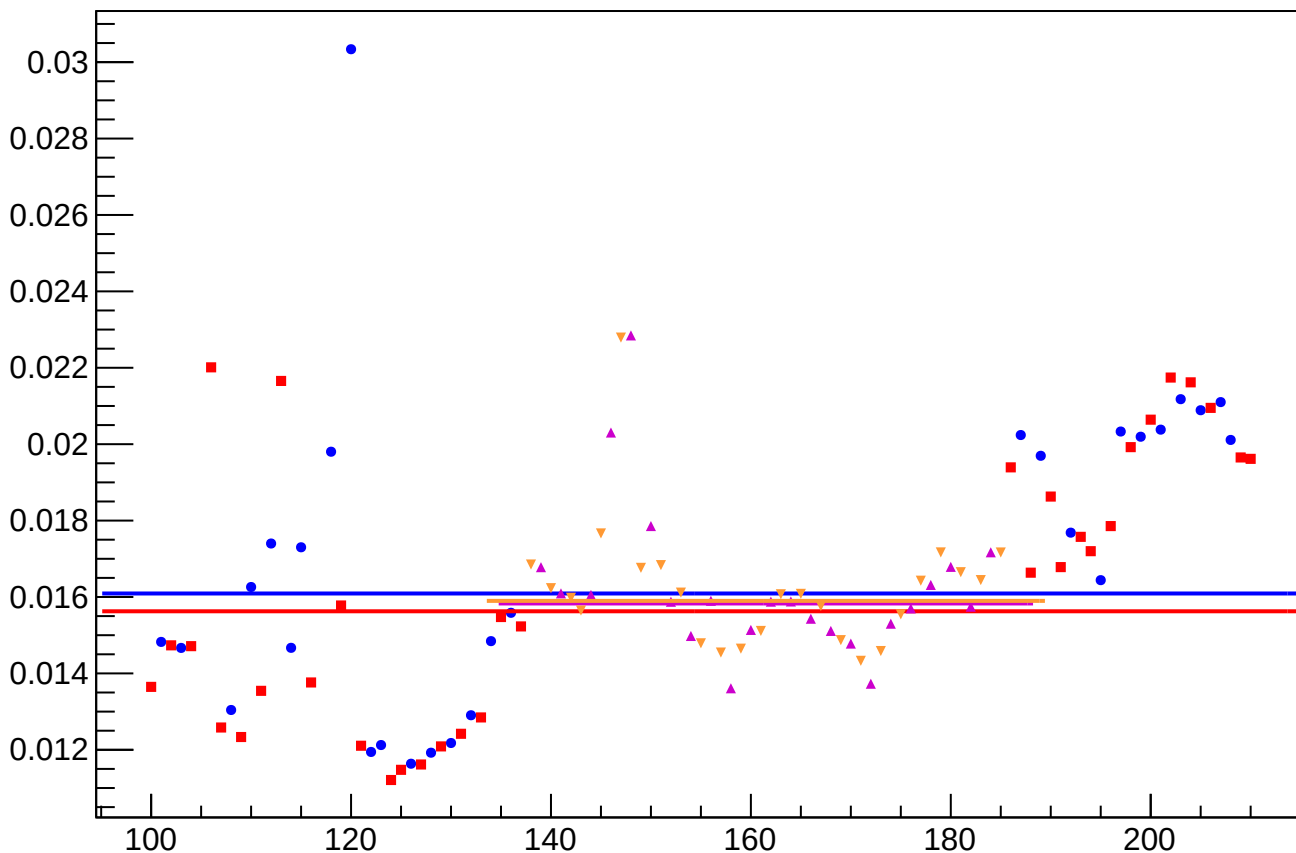
Right: -0.347+/-0.000 χ^2/NDF : 65552915329.0/60

In: -2.026+/-0.000 χ^2/NDF : 313520224159.4/50

Out: -1.948+/-0.000 χ^2/NDF : 319102514340.8/57

All: -1.985+/-0.000 χ^2/NDF : 632999398580.4

yield_bpm0l02X_rms vs Slug, Sign Corrected



Right In: 0.016+/-0.000 χ^2/NDF : 1265342.1/27

Left Out: 0.016+/-0.000 χ^2/NDF :251912.7/24

Right Out: 0.016+/-0.000 χ^2/NDF : 1387786.0/32

Left In: 0.016+/-0.000 χ^2/NDF :339542.1/22

Left: 0.016+/-0.000 χ^2/NDF : 591766.7/47

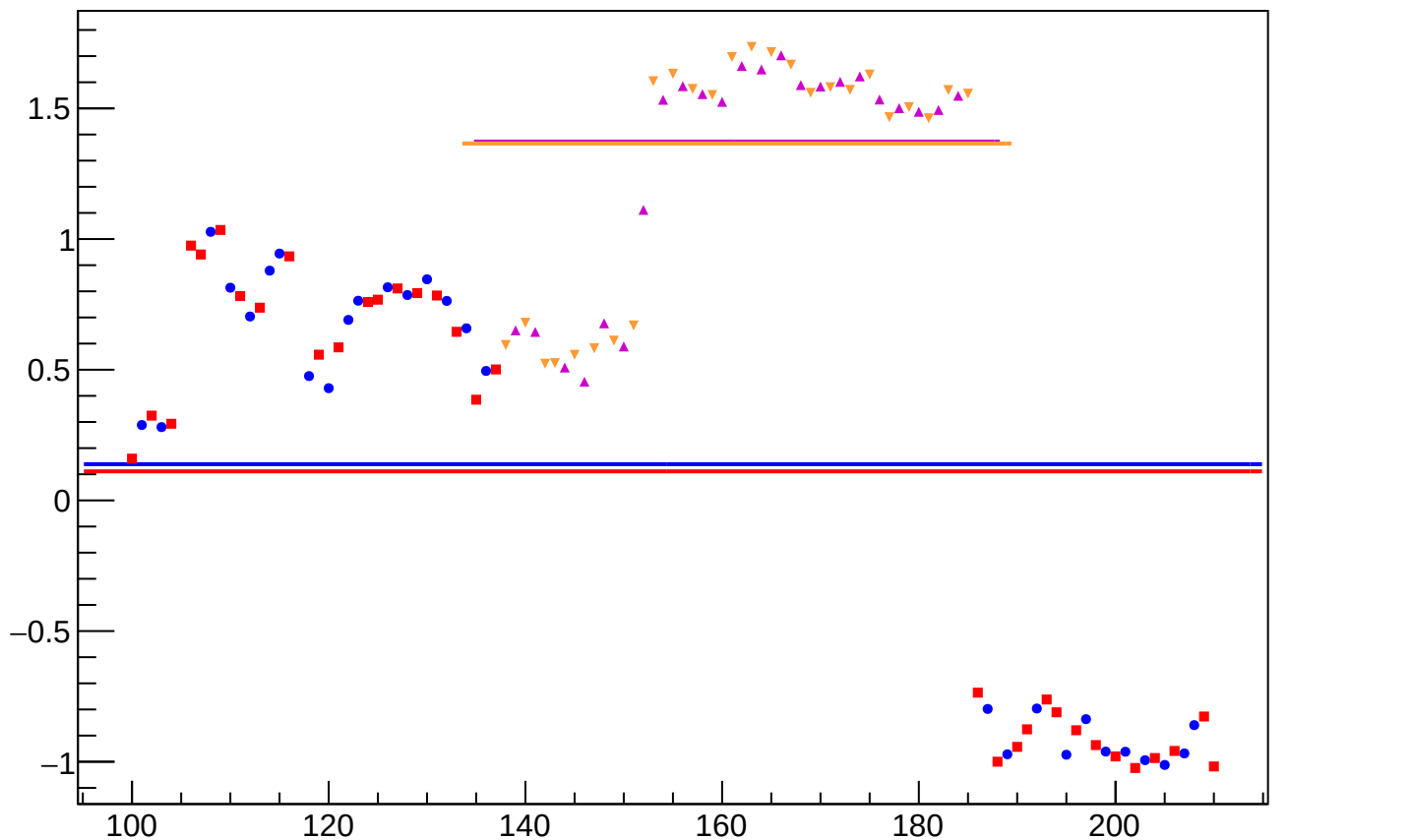
Right: 0.016+/-0.000 χ^2/NDF : 2665195.5/60

In: 0.016+/-0.000 χ^2/NDF :1608790.0/50

Out: 0.016+/-0.000 χ^2/NDF :1644576.3/57

All: 0.016+/-0.000 χ^2/NDF : 3257077.6/108

yield_bpm0l02Y_mean vs Slug, Sign Corrected



Right In: 0.139+/-0.000

χ^2/NDF : 75915188055.6/27

Left: 1.369+/-0.000 χ^2/NDF : 138167468300.7/47

Right: 0.124+/-0.000 χ^2/NDF : 168729587512.9/60

Left Out: 1.366+/-0.000

χ^2/NDF : 74741956067.9/24

In: 1.072+/-0.000 χ^2/NDF : 298125841855.8/50

Right Out: 0.111+/-0.000

χ^2/NDF : 92757752196.3/32

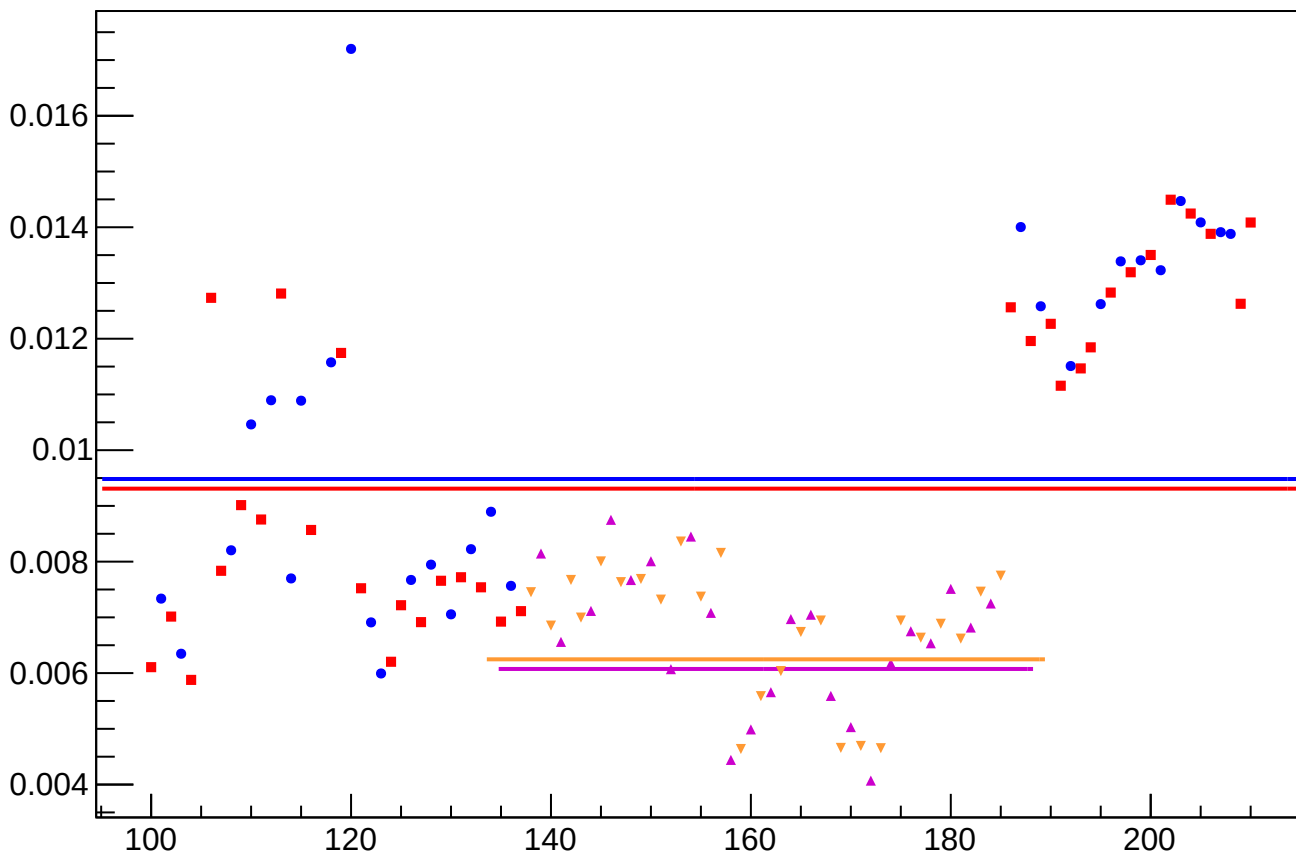
Out: 1.017+/-0.000 χ^2/NDF : 353555713247.9/57

Left In: 1.373+/-0.000

χ^2/NDF : 63413151416.3/22

All: 1.044+/-0.000 χ^2/NDF : 652548962647.6

yield_bpm0l02Y_rms vs Slug, Sign Corrected



Right In: 0.009 $\pm$ 0.000 χ^2 /NDF: 2246406.4/27

Left Out: 0.006 $\pm$ 0.000 χ^2 /NDF:1330867.5/24

Right Out: 0.009 $\pm$ 0.000 χ^2 /NDF: 2565570.7/32

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

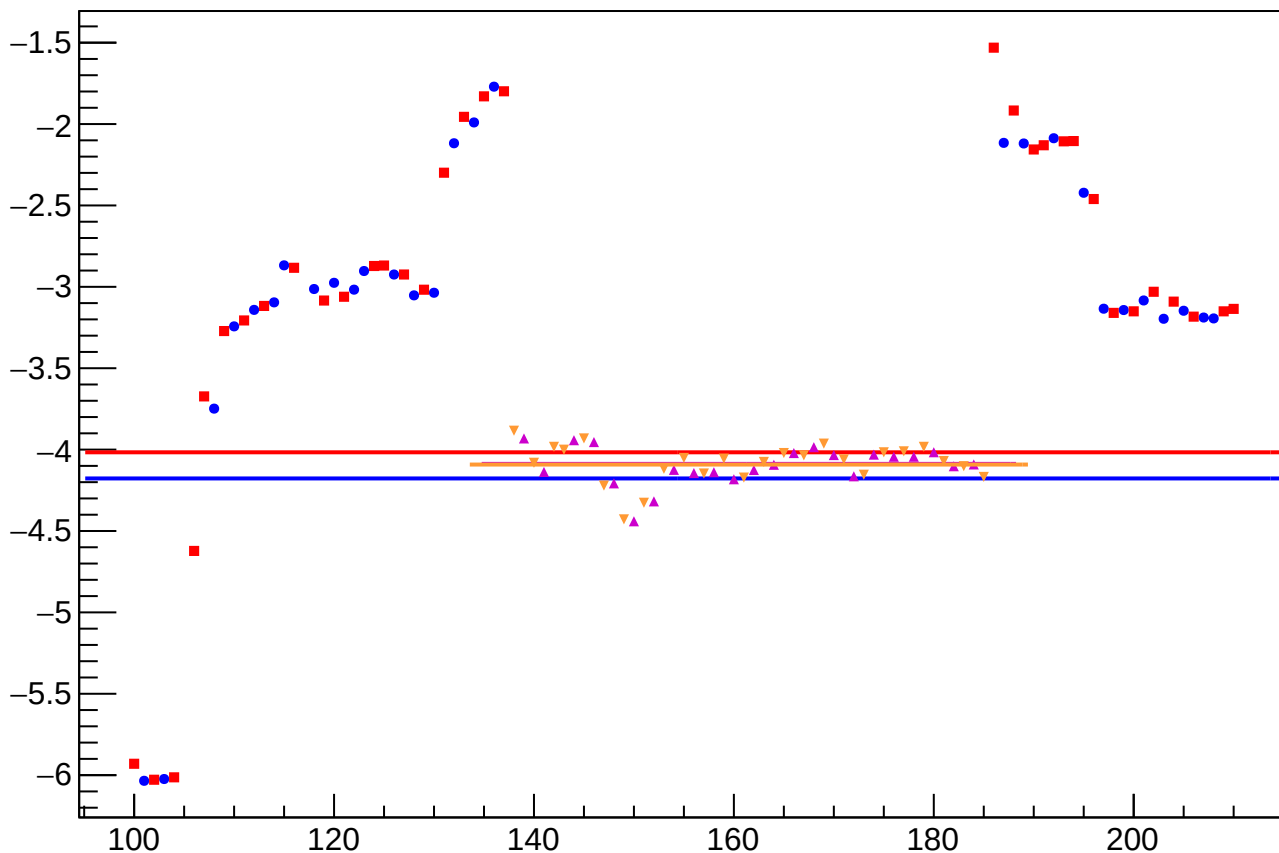
Right: 0.009 $\pm$ 0.000 χ^2 /NDF: 4816462.1/60

In: 0.007 $\pm$ 0.000 χ^2 /NDF:6099463.6/50

Out: 0.007 $\pm$ 0.000 χ^2 /NDF:6114200.5/57

All: 0.007 $\pm$ 0.000 χ^2 /NDF: 12234934.7/108

yield_bpm0l03X_mean vs Slug, Sign Corrected



Right In: -4.177+/-0.000

χ^2/NDF : 280122231503.4/27

Left: -4.089+/-0.000

χ^2/NDF : 74248792.8/47

Left Out: -4.092+/-0.000

χ^2/NDF : 39806766.7/24

Right: -4.108+/-0.000

χ^2/NDF : 555624583696.6/60

Right Out: -4.017+/-0.000

χ^2/NDF : 274244260241.6/32

In: -4.174+/-0.000

χ^2/NDF : 280189550670.9/50

Out: -4.019+/-0.000

χ^2/NDF : 274300215894.5/57

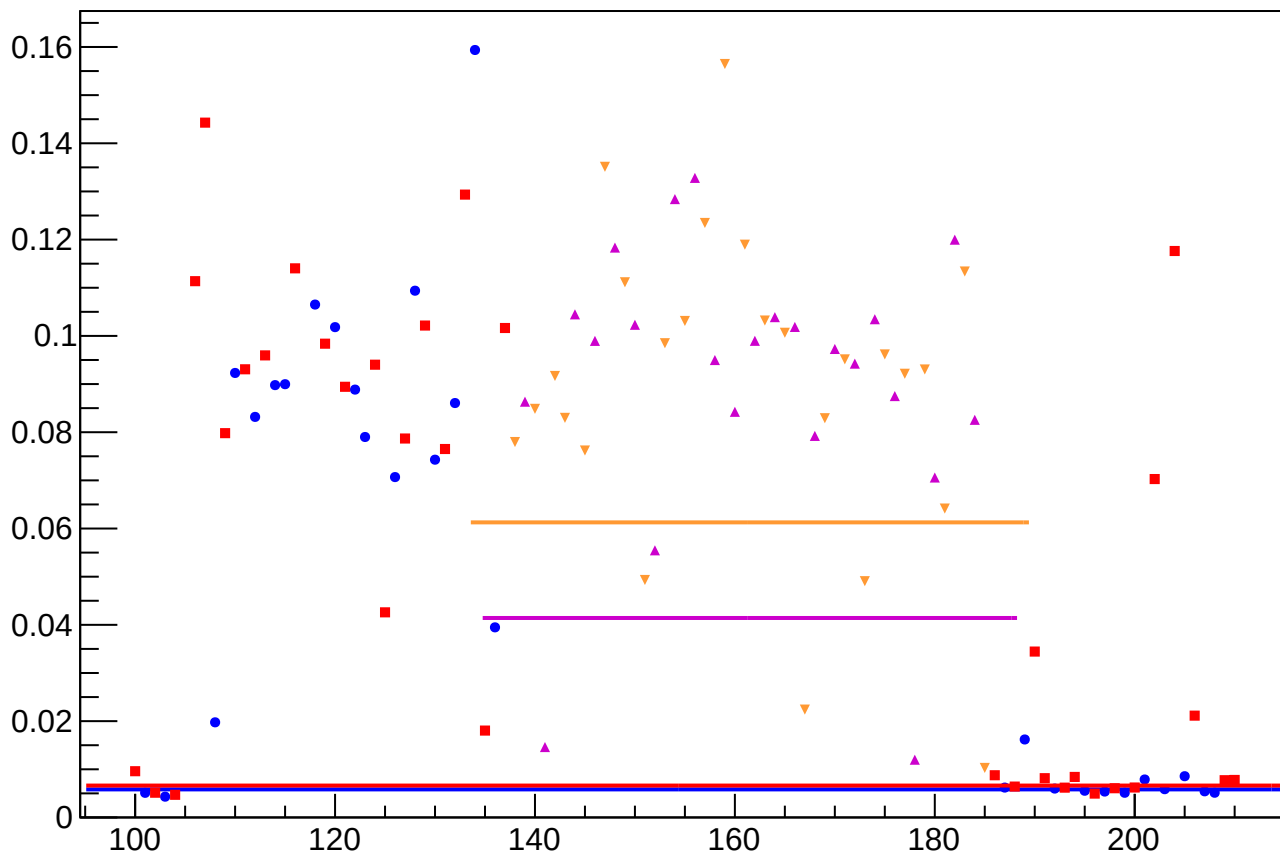
Left In: -4.088+/-0.000

χ^2/NDF : 34412880.7/22

All: -4.107+/-0.000

χ^2/NDF : 555701238827.3

yield_bpm0l03X_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 8075910.6/27

Left Out: 0.061+/-0.000 χ^2/NDF :8355266.0/24

Right Out: 0.007+/-0.000 χ^2/NDF : 10348838.5/32

Left In: 0.041+/-0.000 χ^2/NDF :13124468.7/22

Left: 0.050+/-0.000 χ^2/NDF : 22855159.2/47

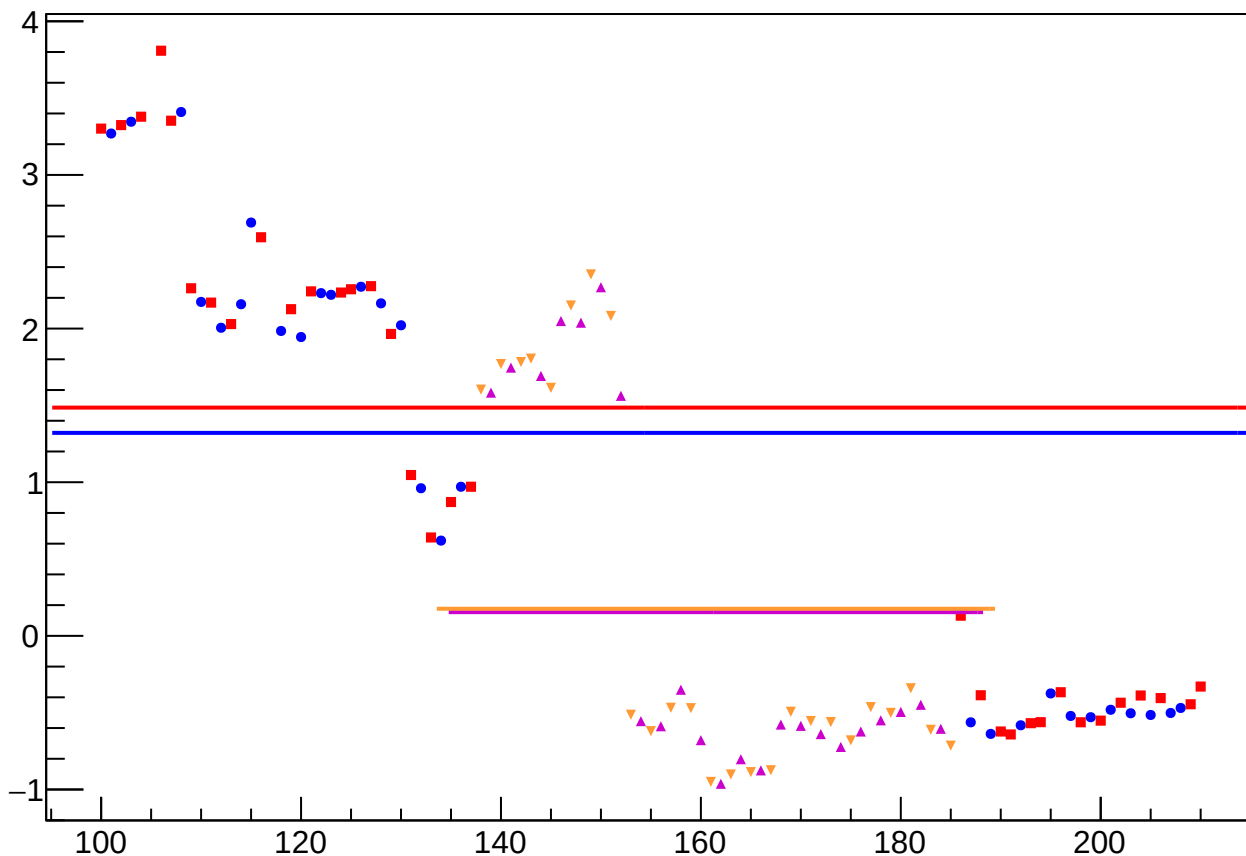
Right: 0.006+/-0.000 χ^2/NDF : 18486693.5/60

In: 0.007+/-0.000 χ^2/NDF :31616543.6/50

Out: 0.008+/-0.000 χ^2/NDF :35757164.5/57

All: 0.008+/-0.000 χ^2/NDF : 67550874.0/108

yield_bpm0l03Y_mean vs Slug, Sign Corrected



Right In: 1.321+/-0.000 χ^2/NDF : 212823786877.7/27

Left Out: 0.177+/-0.000 χ^2/NDF : 3275313367.7/24

Right Out: 1.486+/-0.000 χ^2/NDF : 182022643572.9/32

Left In: 0.154+/-0.000 χ^2/NDF : 3163553595.0/22

Left: 0.165+/-0.000 χ^2/NDF : 6439465655.5/47

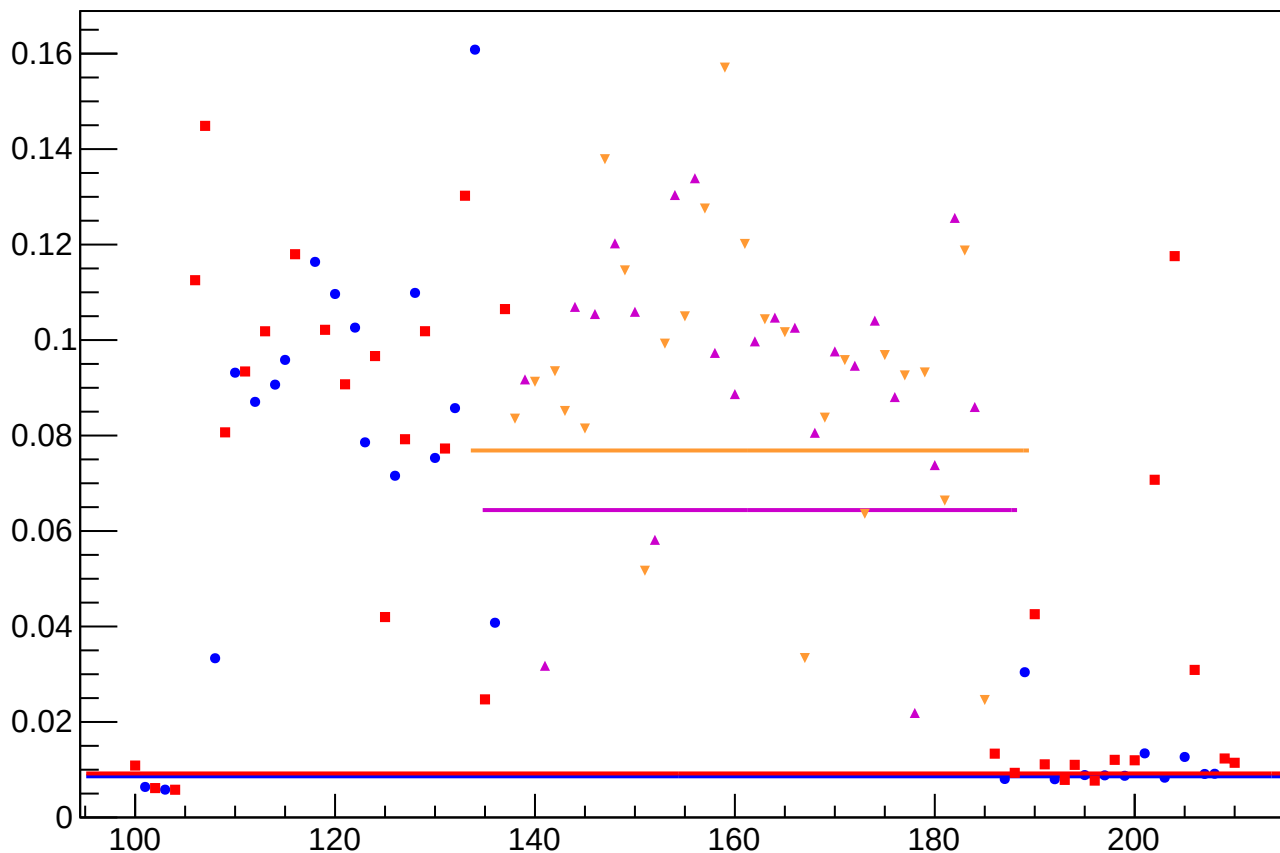
Right: 1.397+/-0.000 χ^2/NDF : 395591100913.8/60

In: 1.273+/-0.000 χ^2/NDF : 219353145779.8/50

Out: 1.430+/-0.000 χ^2/NDF : 189018901743.7/57

All: 1.346+/-0.000 χ^2/NDF : 409086230993.7

yield_bpm0l03Y_rms vs Slug, Sign Corrected



Right In: 0.009 $\pm$ 0.000 χ^2 /NDF: 8030571.9/27

Left Out: 0.077 $\pm$ 0.000 χ^2 /NDF:4217954.3/24

Right Out: 0.009 $\pm$ 0.000 χ^2 /NDF: 10338445.4/32

Left In: 0.064 $\pm$ 0.000 χ^2 /NDF:6990231.5/22

Left: 0.070 $\pm$ 0.000 χ^2 /NDF: 11584112.3/47

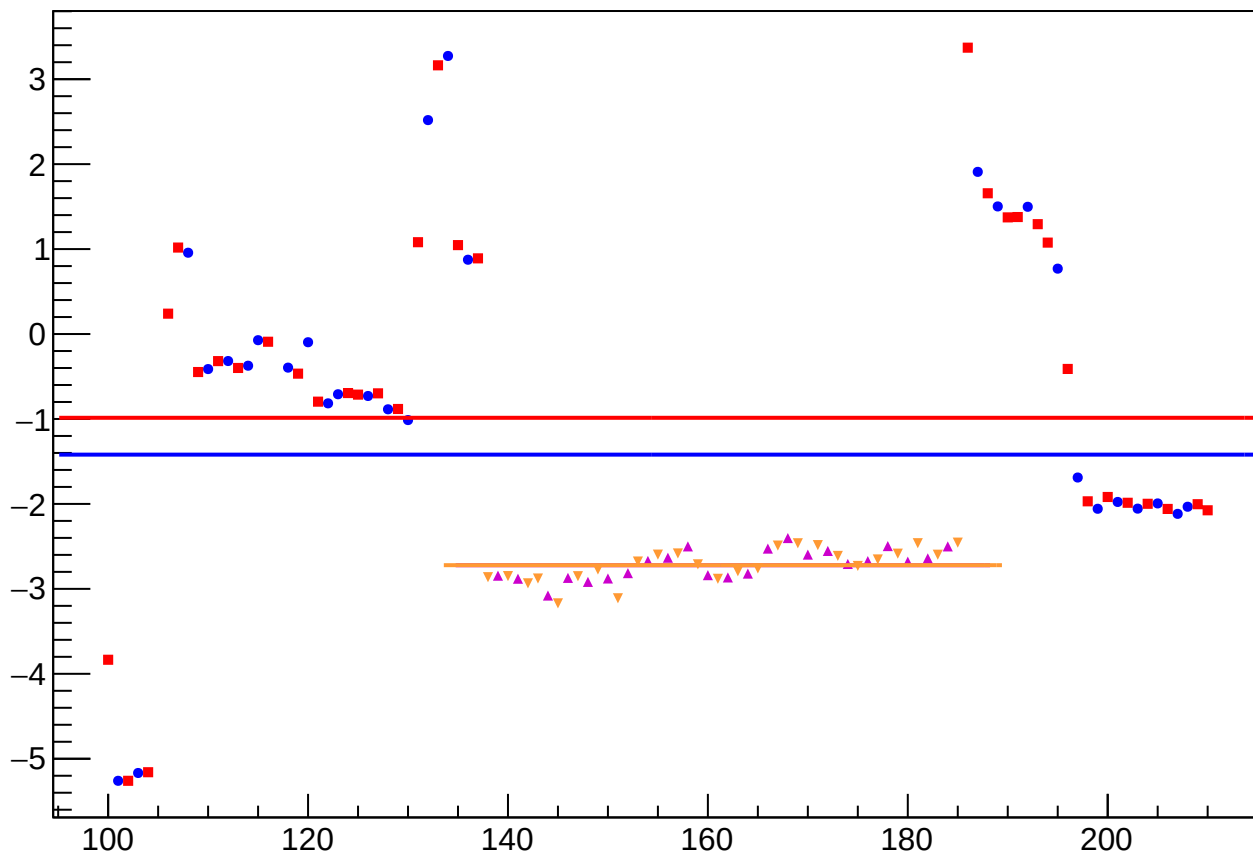
Right: 0.009 $\pm$ 0.000 χ^2 /NDF: 18388601.0/60

In: 0.011 $\pm$ 0.000 χ^2 /NDF:30395827.3/50

Out: 0.012 $\pm$ 0.000 χ^2 /NDF:34429839.1/57

All: 0.011 $\pm$ 0.000 χ^2 /NDF: 64900057.9/108

yield_bpm0l04X_mean vs Slug, Sign Corrected



Right In: -1.420+/-0.000

χ^2/NDF : 206178102980.1/27

Left: -2.722+/-0.000

χ^2/NDF : 18543711860.5/47

Left Out: -2.721+/-0.000

χ^2/NDF : 10397156971.6/24

Right: -1.184+/-0.000

χ^2/NDF : 449372547164.0/60

Right Out: -0.986+/-0.000

χ^2/NDF : 239270630474.4/32

In: -2.562+/-0.000

χ^2/NDF : 271465007335.0/50

Out: -2.486+/-0.000

χ^2/NDF : 368417273340.3/57

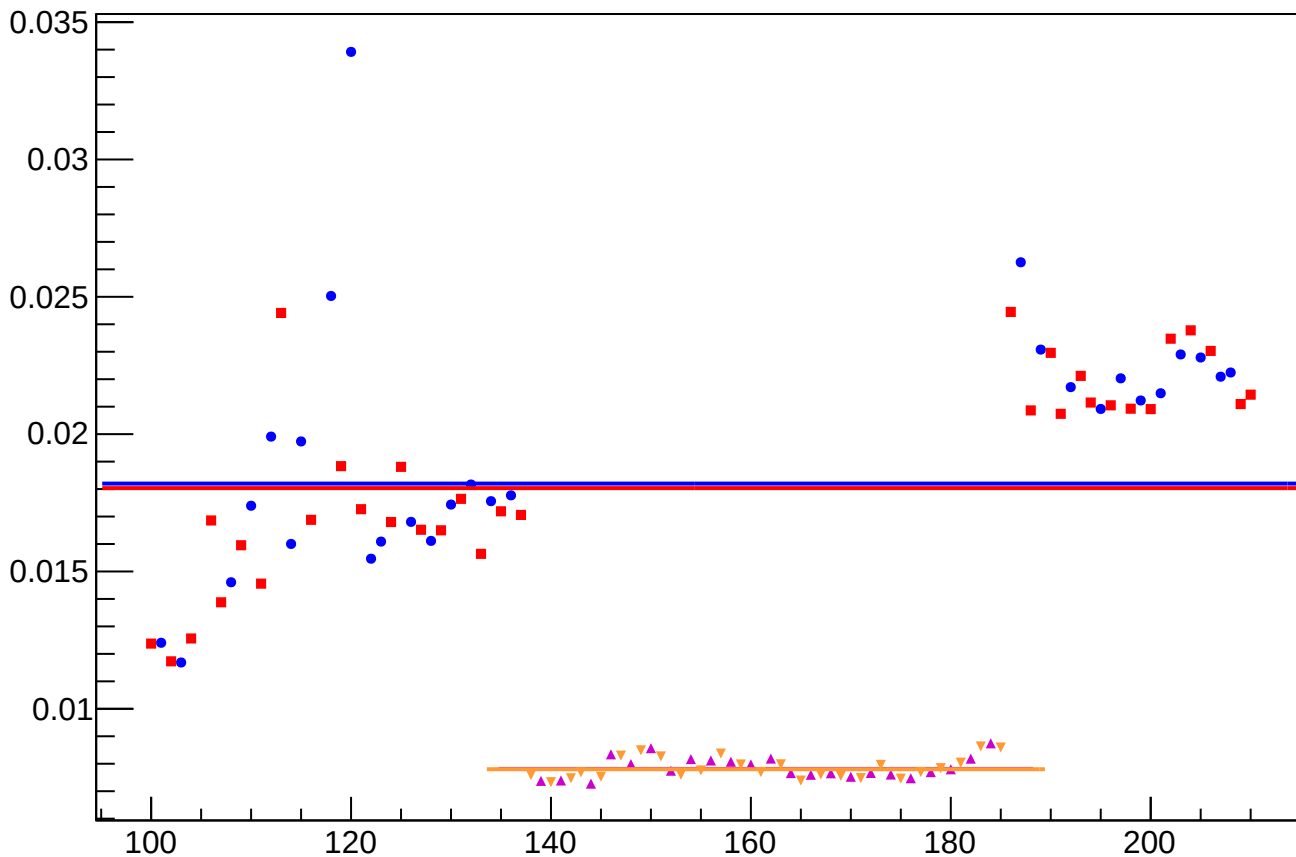
Left In: -2.722+/-0.000

χ^2/NDF : 8146484592.1/22

All: -2.522+/-0.000

χ^2/NDF : 640808001608.0

yield_bpm0l04X_rms vs Slug, Sign Corrected



Right In: 0.018+/-0.000 χ^2/NDF : 1347585.1/27

Left Out: 0.008+/-0.000 χ^2/NDF : 71164.4/24

Right Out: 0.018+/-0.000 χ^2/NDF : 1306414.7/32

Left In: 0.008+/-0.000 χ^2/NDF : 67610.2/22

Left: 0.008+/-0.000 χ^2/NDF : 138804.4/47

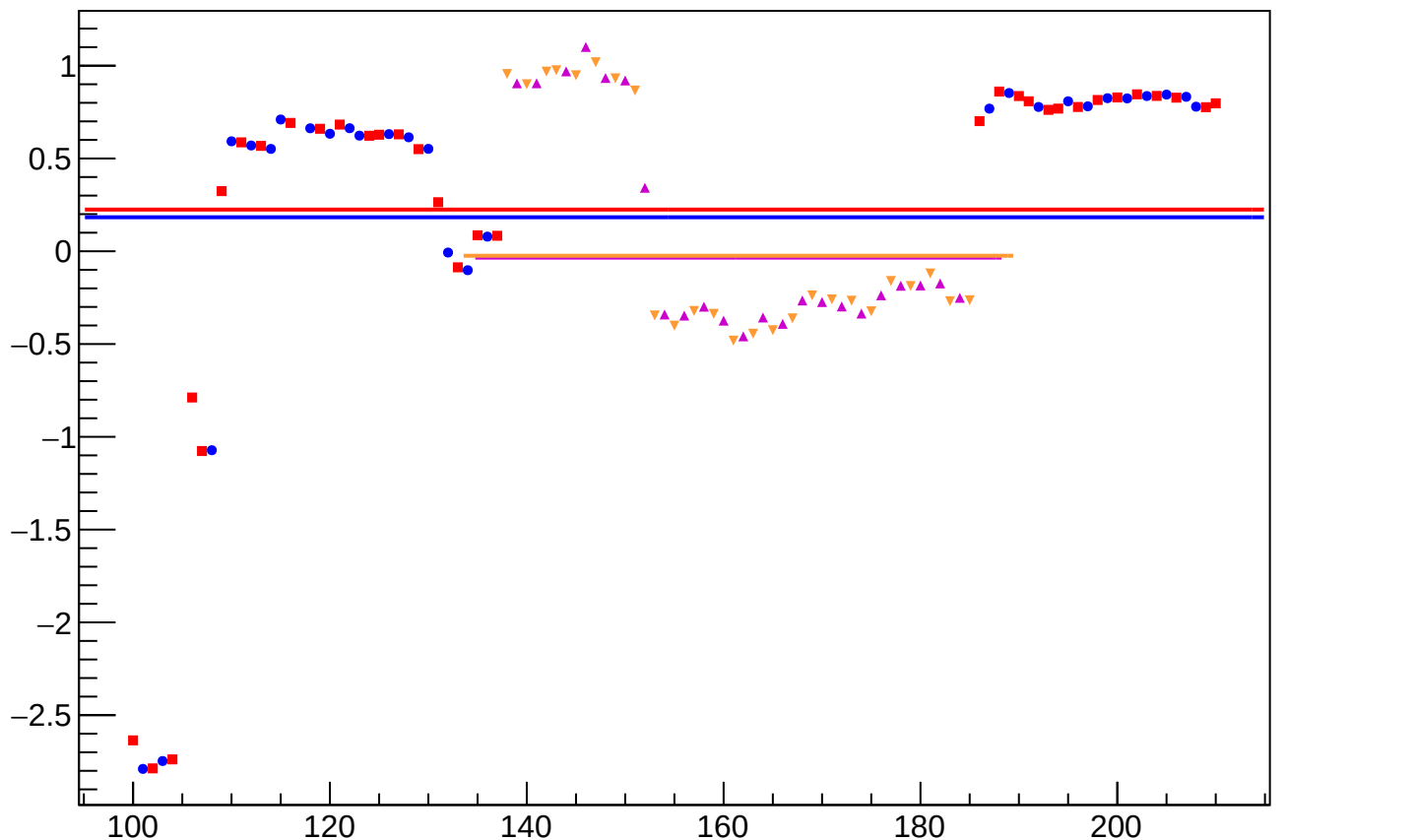
Right: 0.018+/-0.000 χ^2/NDF : 2655138.1/60

In: 0.009+/-0.000 χ^2/NDF : 8689970.4/50

Out: 0.009+/-0.000 χ^2/NDF : 9640014.5/57

All: 0.009+/-0.000 χ^2/NDF : 18333096.2/108

yield_bpm0l04Y_mean vs Slug, Sign Corrected



Right In: 0.183+/-0.000

χ^2/NDF : 872393117164.5/27

Left: -0.029+/-0.000

χ^2/NDF : 249405201350.6/47

Right: 0.206+/-0.000

χ^2/NDF : 1817126081478.6/60

Left Out: -0.024+/-0.000

χ^2/NDF : 135451649275.0/24

In: 0.101+/-0.000

χ^2/NDF : 1000087931687.1/50

Right Out: 0.225+/-0.000

χ^2/NDF : 944016909066.0/32

Out: 0.138+/-0.000

χ^2/NDF : 1098927794509.1/57

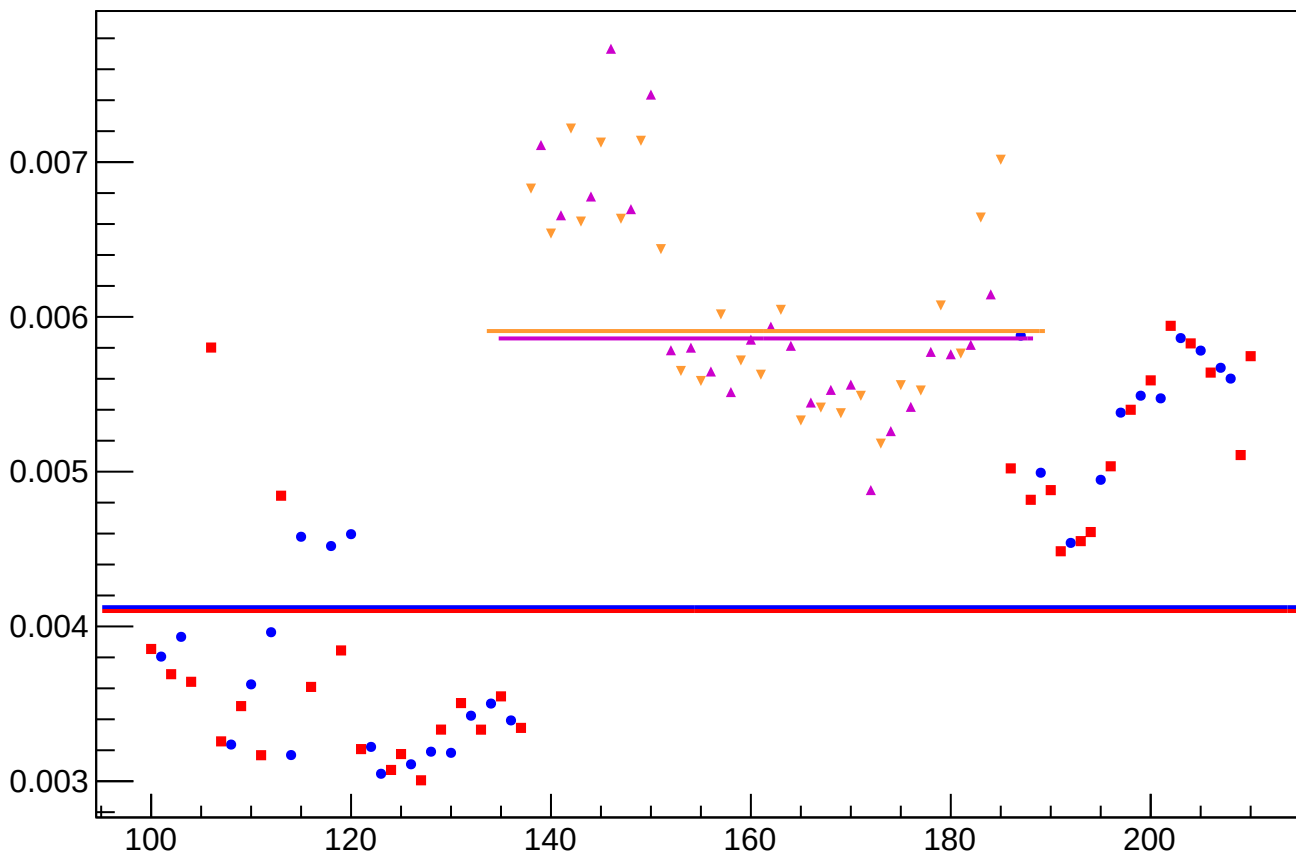
Left In: -0.034+/-0.000

χ^2/NDF : 113929060918.1/22

All: 0.121+/-0.000

χ^2/NDF : 2099871679758.0/210

yield_bpm0l04Y_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 1405140.9/27

Left Out: 0.006+/-0.000 χ^2/NDF :314309.7/24

Right Out: 0.004+/-0.000 χ^2/NDF : 1553459.7/32

Left In: 0.006+/-0.000 χ^2/NDF :364512.1/22

Left: 0.006+/-0.000 χ^2/NDF : 679905.3/47

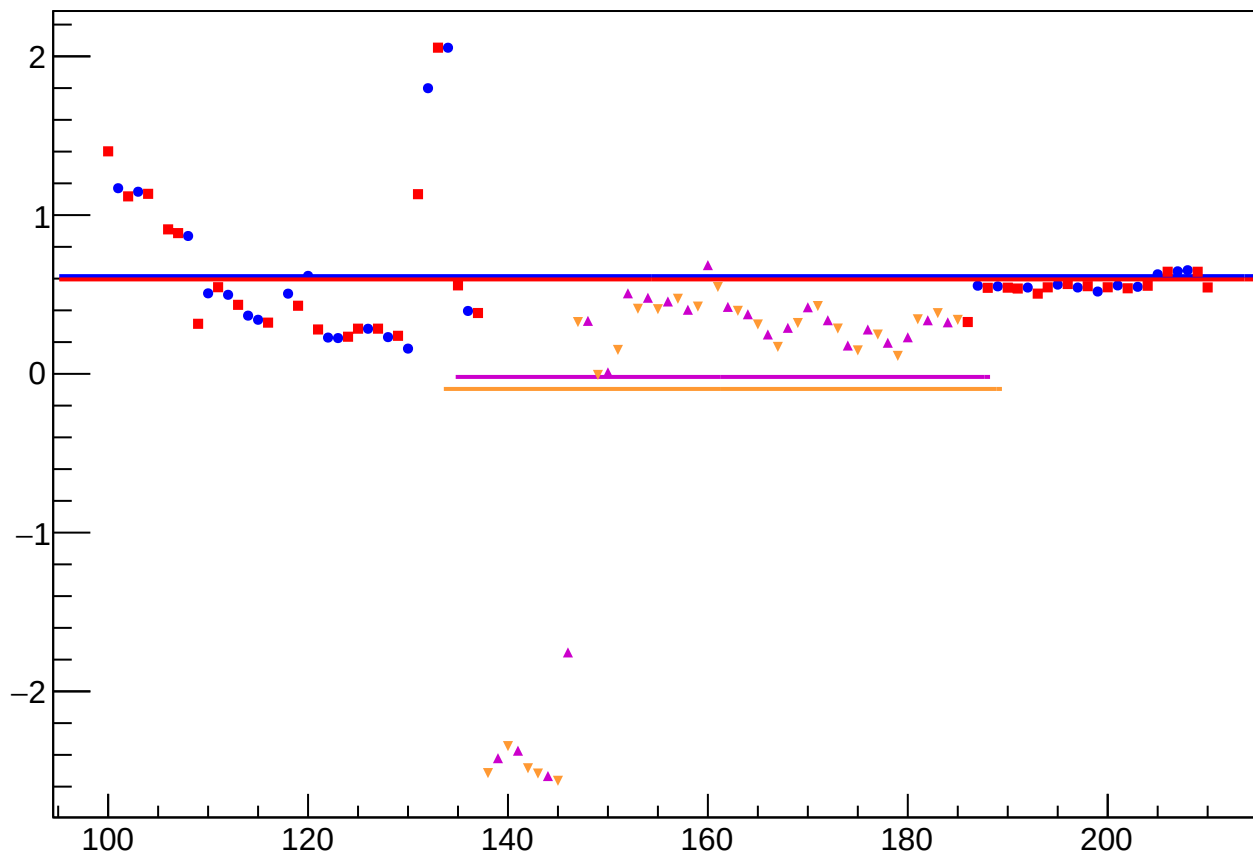
Right: 0.004+/-0.000 χ^2/NDF : 2959105.1/60

In: 0.005+/-0.000 χ^2/NDF :3523087.0/50

Out: 0.005+/-0.000 χ^2/NDF :3922833.5/57

All: 0.005+/-0.000 χ^2/NDF : 7448499.3/108

yield_bpm0l05X_mean vs Slug, Sign Corrected



Right In: 0.616+/-0.000

χ^2/NDF : 40613158150.1/27

Left: -0.058+/-0.000

χ^2/NDF : 924153662333.7/47

Left Out: -0.095+/-0.000

χ^2/NDF : 505606573631.9/24

Right: 0.604+/-0.000

χ^2/NDF : 87107744720.7/60

Right Out: 0.595+/-0.000

χ^2/NDF : 46301568453.7/32

In: 0.376+/-0.000

χ^2/NDF : 581638802787.5/50

Out: 0.360+/-0.000

χ^2/NDF : 713686331313.7/57

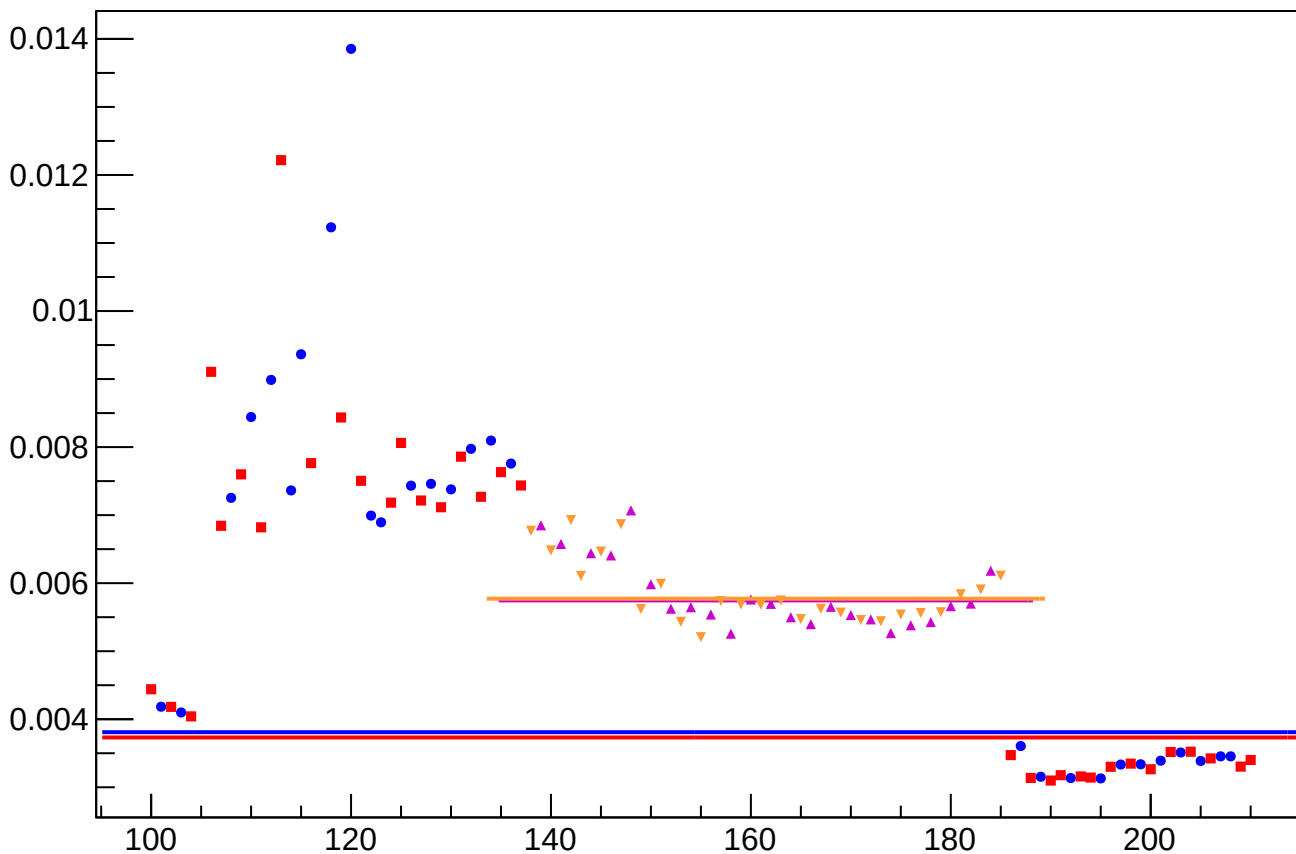
Left In: -0.019+/-0.000

χ^2/NDF : 417104863944.5/22

All: 0.368+/-0.000

χ^2/NDF : 1295505644873.

yield_bpm0l05X_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 3125517.6/27

Left Out: 0.006+/-0.000 χ^2/NDF :177680.7/24

Right Out: 0.004+/-0.000 χ^2/NDF : 3193237.2/32

Left In: 0.006+/-0.000 χ^2/NDF :204066.4/22

Left: 0.006+/-0.000 χ^2/NDF : 382076.8/47

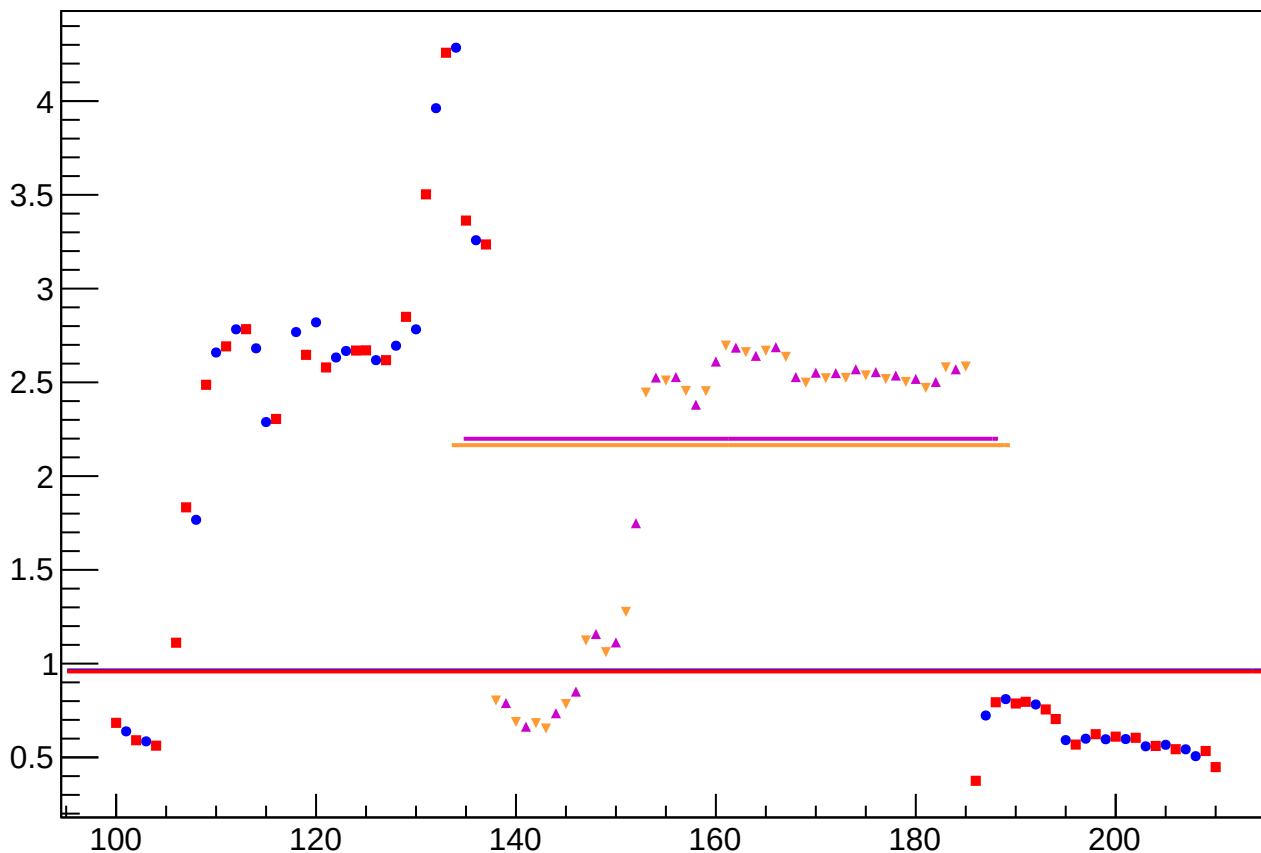
Right: 0.004+/-0.000 χ^2/NDF : 6324101.4/60

In: 0.005+/-0.000 χ^2/NDF :5637030.5/50

Out: 0.004+/-0.000 χ^2/NDF :6200597.9/57

All: 0.004+/-0.000 χ^2/NDF : 11855732.2/108

yield_bpm0l05Y_mean vs Slug, Sign Corrected



Right In: 0.963+/-0.000 χ^2/NDF : 297811750794.3/27

Left Out: 2.165+/-0.000 χ^2/NDF : 292800056899.6/24

Right Out: 0.958+/-0.000 χ^2/NDF : 353080138695.6/32

Left In: 2.199+/-0.000 χ^2/NDF : 253166239065.4/22

Left: 2.182+/-0.000 χ^2/NDF : 546302258971.9/47

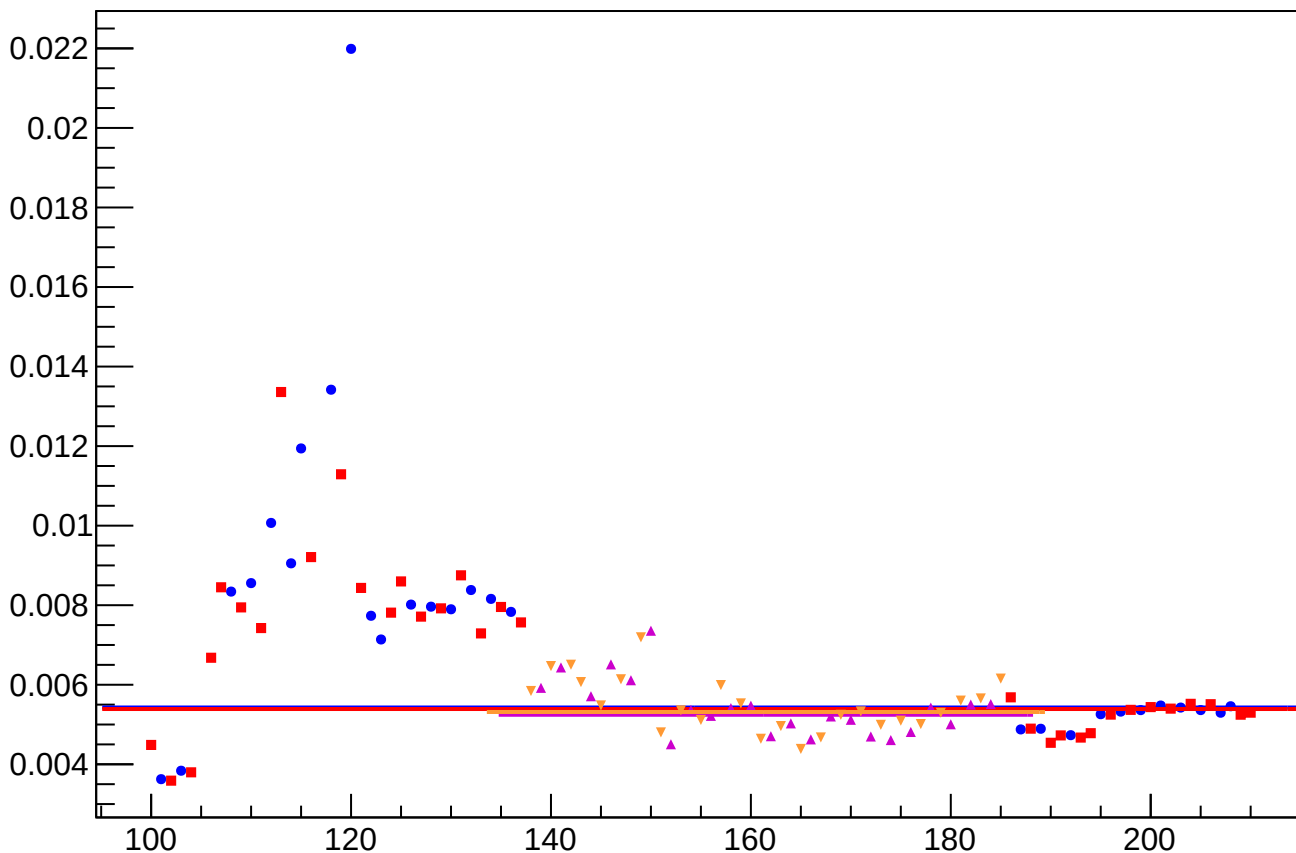
Right: 0.961+/-0.000 χ^2/NDF : 650898071343.6/60

In: 1.679+/-0.000 χ^2/NDF : 918762310759.0/50

Out: 1.613+/-0.000 χ^2/NDF : 1037420272260.3/57

All: 1.644+/-0.000 χ^2/NDF : 1958462330034.

yield_bpm0l05Y_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 2006199.8/27

Left Out: 0.005+/-0.000 χ^2/NDF :398795.0/24

Right Out: 0.005+/-0.000 χ^2/NDF : 1879208.0/32

Left In: 0.005+/-0.000 χ^2/NDF :425864.8/22

Left: 0.005+/-0.000 χ^2/NDF : 827475.4/47

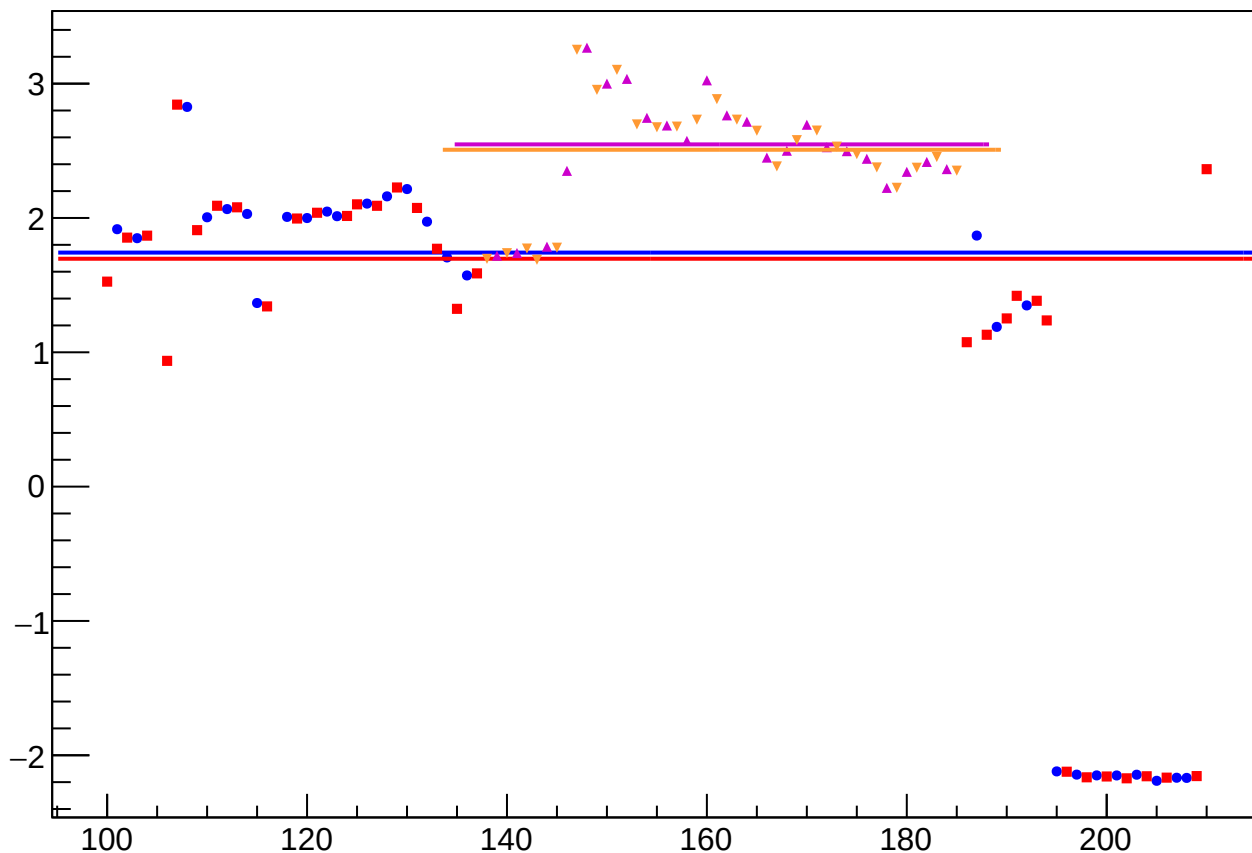
Right: 0.005+/-0.000 χ^2/NDF : 3886059.8/60

In: 0.005+/-0.000 χ^2/NDF :2448087.3/50

Out: 0.005+/-0.000 χ^2/NDF :2281004.8/57

All: 0.005+/-0.000 χ^2/NDF : 4729853.4/108

yield_bpm0l06X_mean vs Slug, Sign Corrected



Right In: 1.742 $\pm$ 0.000 χ^2 /NDF: 146053162422.0/27

Left Out: 2.508 $\pm$ 0.000 χ^2 /NDF: 52355332406.0/24

Right Out: 1.696 $\pm$ 0.000 χ^2 /NDF: 141967346986.6/32

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

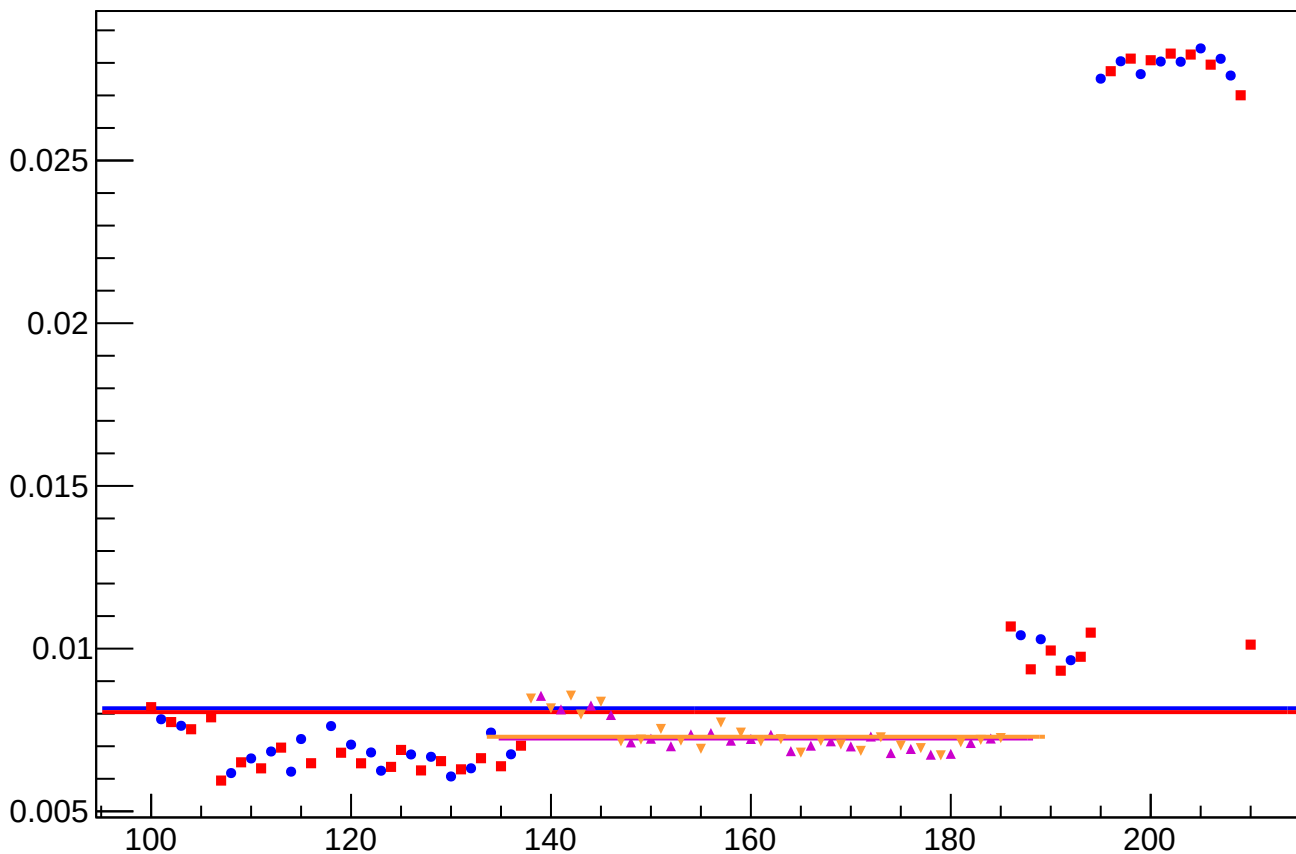
Right: 1.717 $\pm$ 0.000 χ^2 /NDF: 288206094074.4/60

In: 2.278 $\pm$ 0.000 χ^2 /NDF: 260239561778.2/50

Out: 2.202 $\pm$ 0.000 χ^2 /NDF: 275704870591.9/57

All: 2.238 $\pm$ 0.000 χ^2 /NDF: 537378258289.2

yield_bpm0l06X_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 6893780.4/27

Left Out: 0.007+/-0.000 χ^2/NDF :140788.4/24

Right Out: 0.008+/-0.000 χ^2/NDF : 6313261.6/32

Left In: 0.007+/-0.000 χ^2/NDF :125233.2/22

Left: 0.007+/-0.000 χ^2/NDF : 266945.6/47

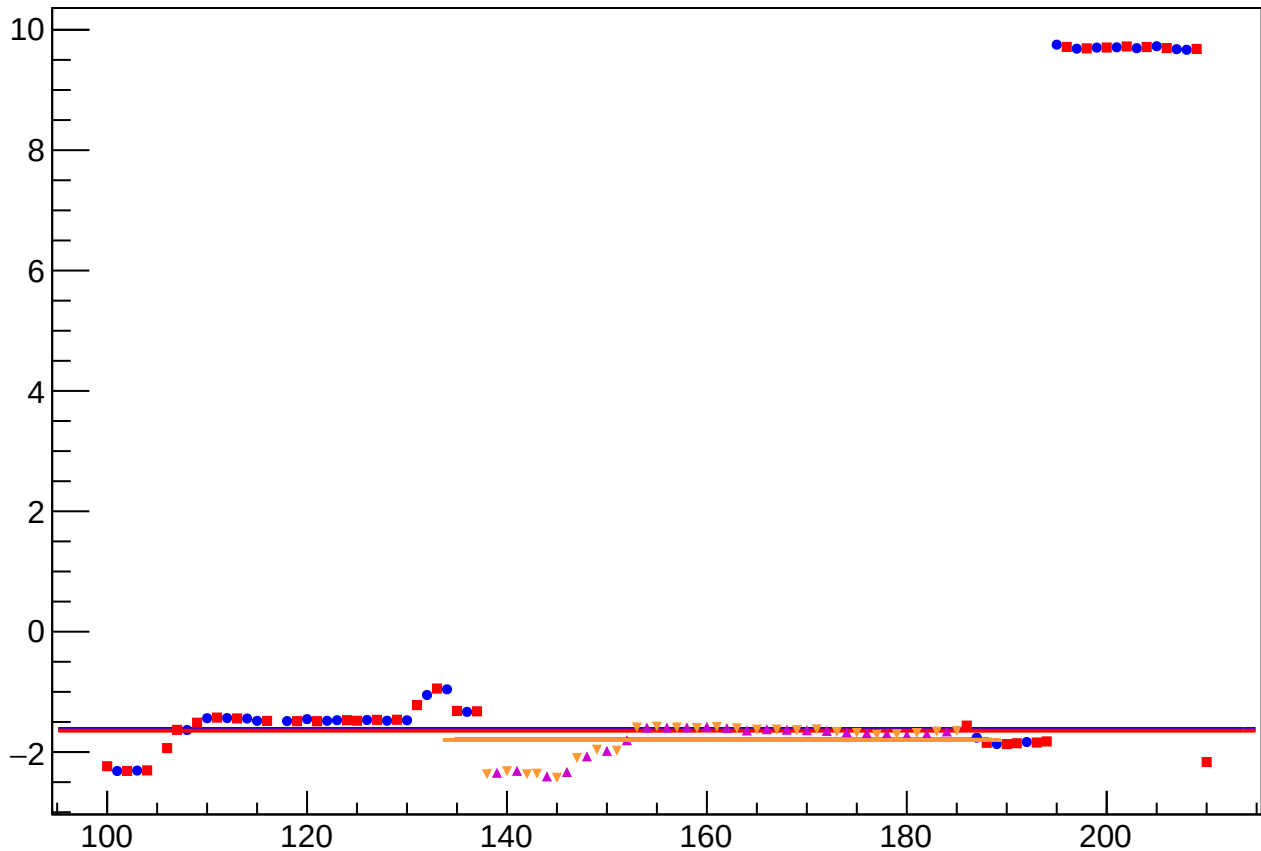
Right: 0.008+/-0.000 χ^2/NDF : 13209521.7/60

In: 0.008+/-0.000 χ^2/NDF :7201964.8/50

Out: 0.008+/-0.000 χ^2/NDF :6595607.3/57

All: 0.008+/-0.000 χ^2/NDF : 13797948.2/108

yield_bpm0l06Y_mean vs Slug, Sign Corrected



Right In: -1.617+/-0.000

χ^2/NDF : 359150240835.8/27

Left: -1.795+/-0.000

χ^2/NDF : 345099435201.4/47

Left Out: -1.799+/-0.000

χ^2/NDF : 185362087438.8/24

Right: -1.632+/-0.000

χ^2/NDF : 711910103946.1/60

Right Out: -1.644+/-0.000

χ^2/NDF : 352334305624.6/32

In: -1.736+/-0.000

χ^2/NDF : 540297481481.9/50

Out: -1.743+/-0.000

χ^2/NDF : 558230144640.3/57

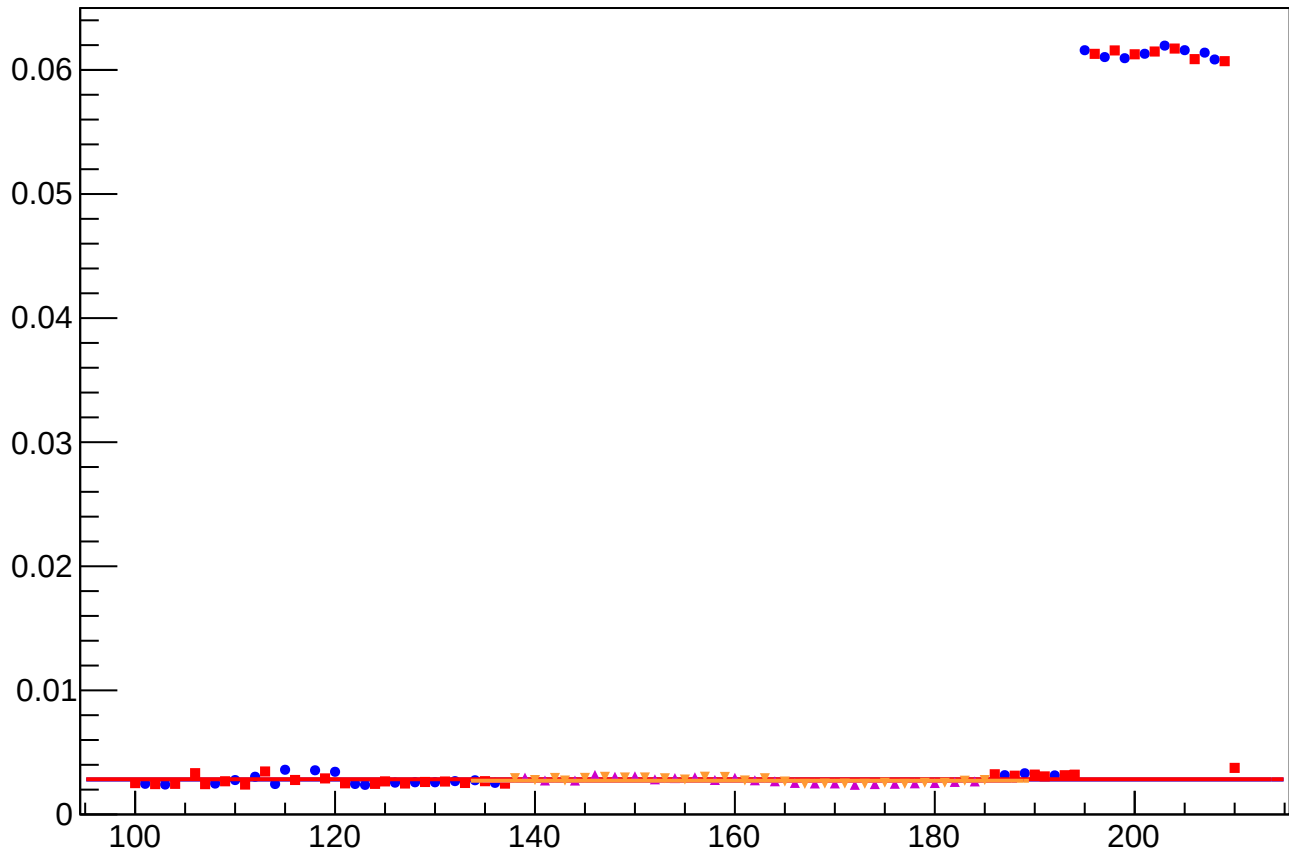
Left In: -1.790+/-0.000

χ^2/NDF : 159648935510.8/22

All: -1.739+/-0.000

χ^2/NDF : 1098623189555

yield_bpm0l06Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 11570390.5/27

Left Out: 0.003+/-0.000 χ^2/NDF :199695.2/24

Right Out: 0.003+/-0.000 χ^2/NDF : 9999780.3/32

Left In: 0.003+/-0.000 χ^2/NDF :220327.9/22

Left: 0.003+/-0.000 χ^2/NDF : 420716.9/47

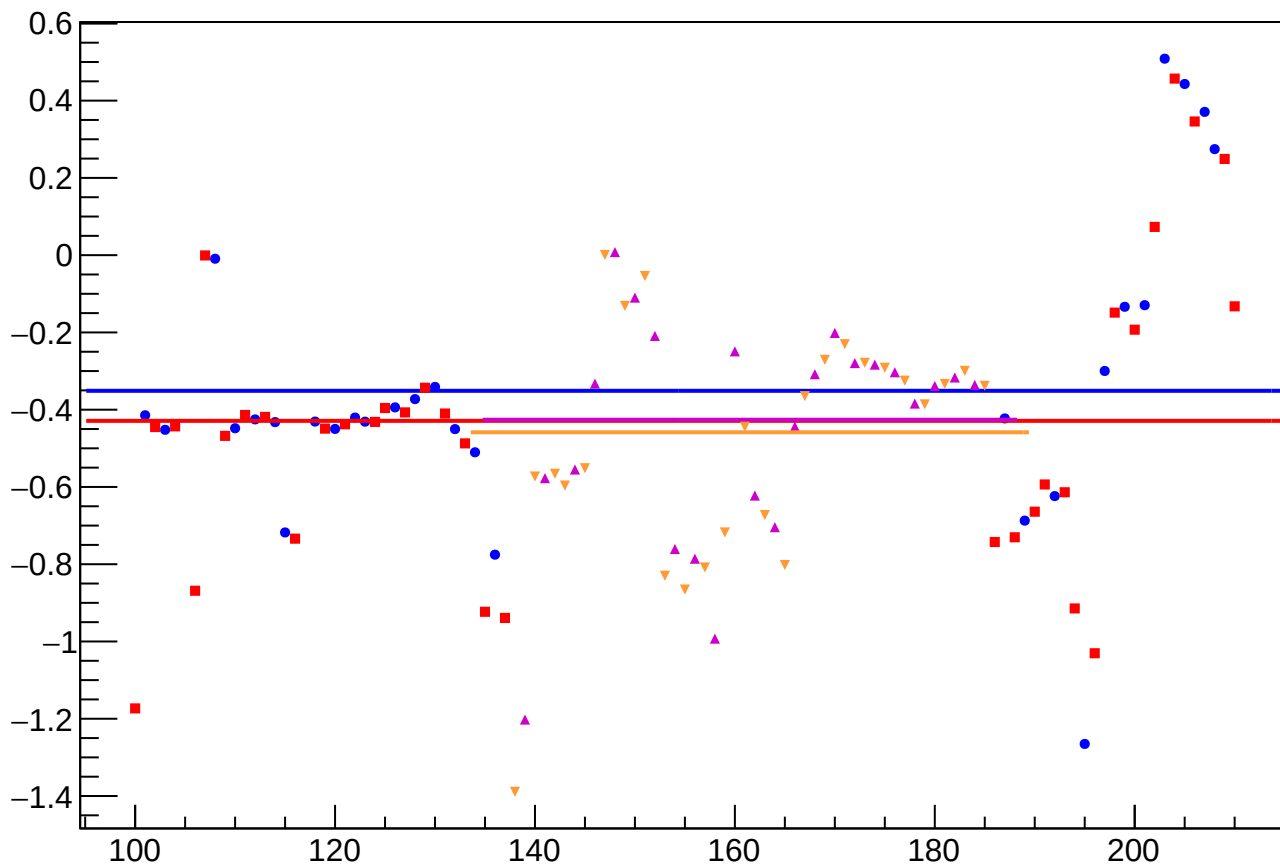
Right: 0.003+/-0.000 χ^2/NDF : 21570932.1/60

In: 0.003+/-0.000 χ^2/NDF :11808593.4/50

Out: 0.003+/-0.000 χ^2/NDF :10224030.7/57

All: 0.003+/-0.000 χ^2/NDF : 22034872.6/108

yield_bpm0l07X_mean vs Slug, Sign Corrected



Right In: -0.351 ± 0.000 $\chi^2/\text{NDF}: 10024211695.0/27$

Left Out: -0.459 ± 0.000 $\chi^2/\text{NDF}: 9916462814.9/24$

Right Out: -0.429 ± 0.000 $\chi^2/\text{NDF}: 10156759884.1/32$

Left In: -0.426 ± 0.000 $\chi^2/\text{NDF}: 8424222576.0/22$

Left: -0.443 ± 0.000 $\chi^2/\text{NDF}: 18401926676.9/47$

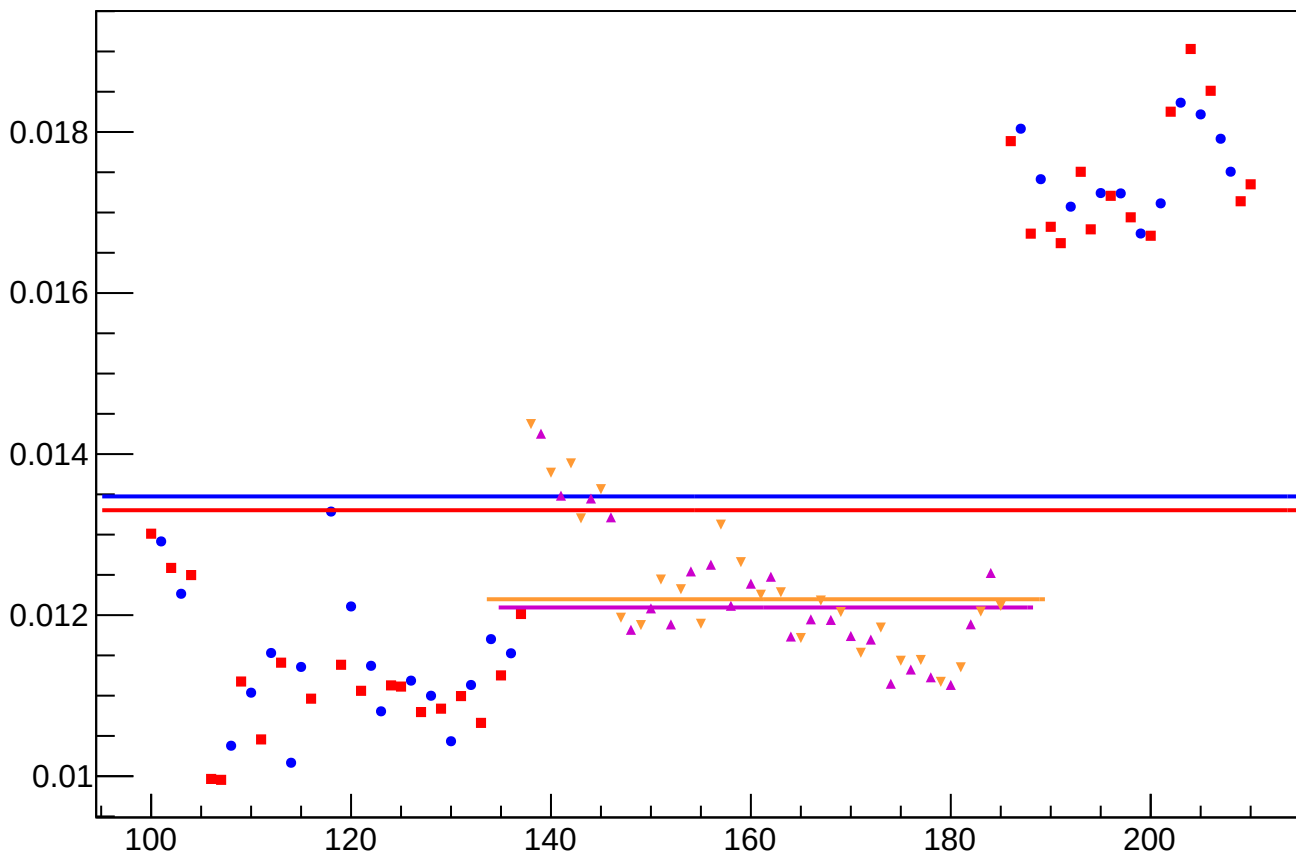
Right: -0.393 ± 0.000 $\chi^2/\text{NDF}: 20422592950.0/60$

In: -0.396 ± 0.000 $\chi^2/\text{NDF}: 18699430040.2/50$

Out: -0.446 ± 0.000 $\chi^2/\text{NDF}: 20117098852.0/57$

All: -0.422 ± 0.000 $\chi^2/\text{NDF}: 39056792502.8/100$

yield_bpm0l07X_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 1263327.5/27

Left Out: 0.012+/-0.000 χ^2/NDF :141850.9/24

Right Out: 0.013+/-0.000 χ^2/NDF : 1627953.3/32

Left In: 0.012+/-0.000 χ^2/NDF :127308.3/22

Left: 0.012+/-0.000 χ^2/NDF : 270367.5/47

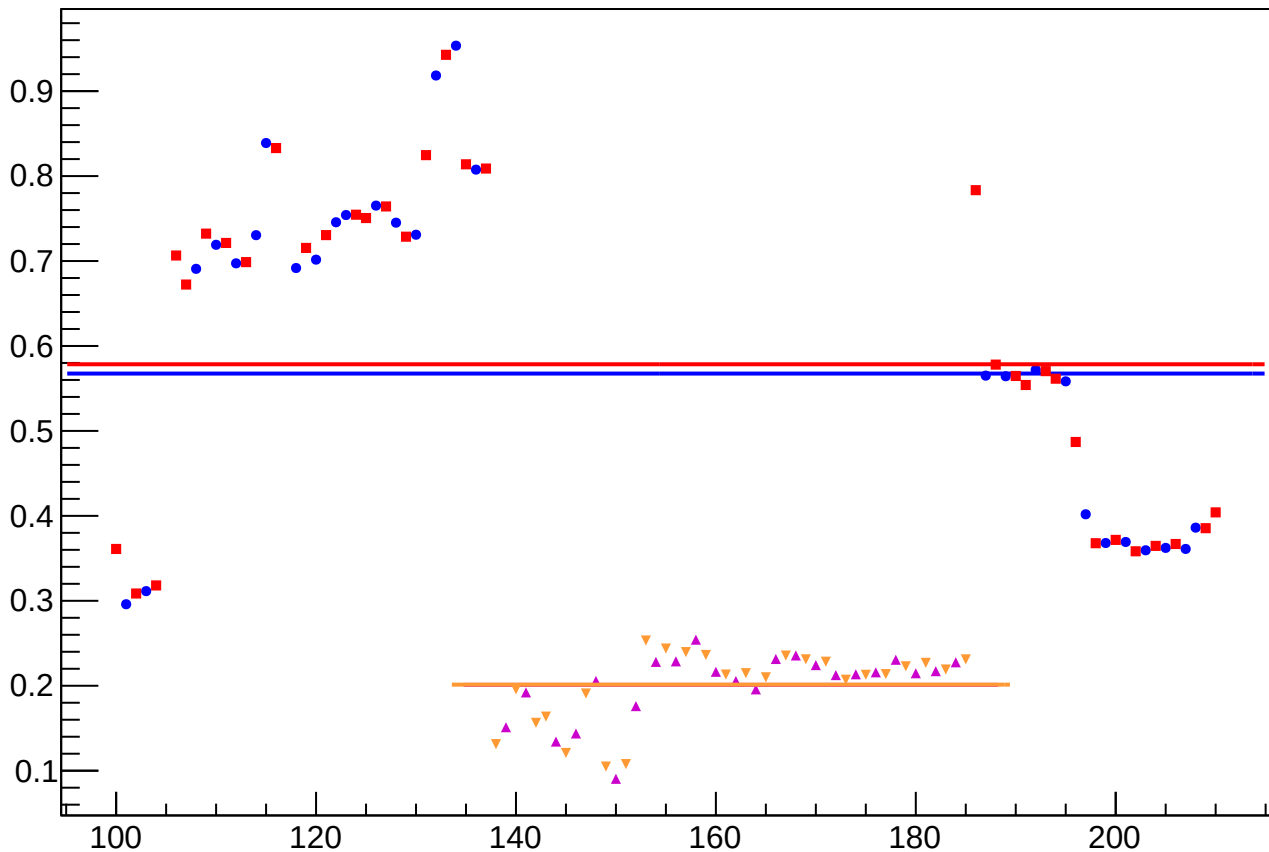
Right: 0.013+/-0.000 χ^2/NDF : 2893626.4/60

In: 0.013+/-0.000 χ^2/NDF :1560986.2/50

Out: 0.013+/-0.000 χ^2/NDF :1892088.0/57

All: 0.013+/-0.000 χ^2/NDF : 3453206.5/108

yield_bpm0l07Y_mean vs Slug, Sign Corrected



Right In: 0.568+/-0.000

χ^2/NDF : 72715260747.5/27

Left: 0.201+/-0.000

χ^2/NDF : 12762673178.0/47

Left Out: 0.201+/-0.000

χ^2/NDF : 7090760823.7/24

Right: 0.573+/-0.000

χ^2/NDF : 146226814385.0/60

Right Out: 0.578+/-0.000

χ^2/NDF : 73392302853.0/32

In: 0.322+/-0.000

χ^2/NDF : 246978781284.8/50

Out: 0.331+/-0.000

χ^2/NDF : 278793115349.5/57

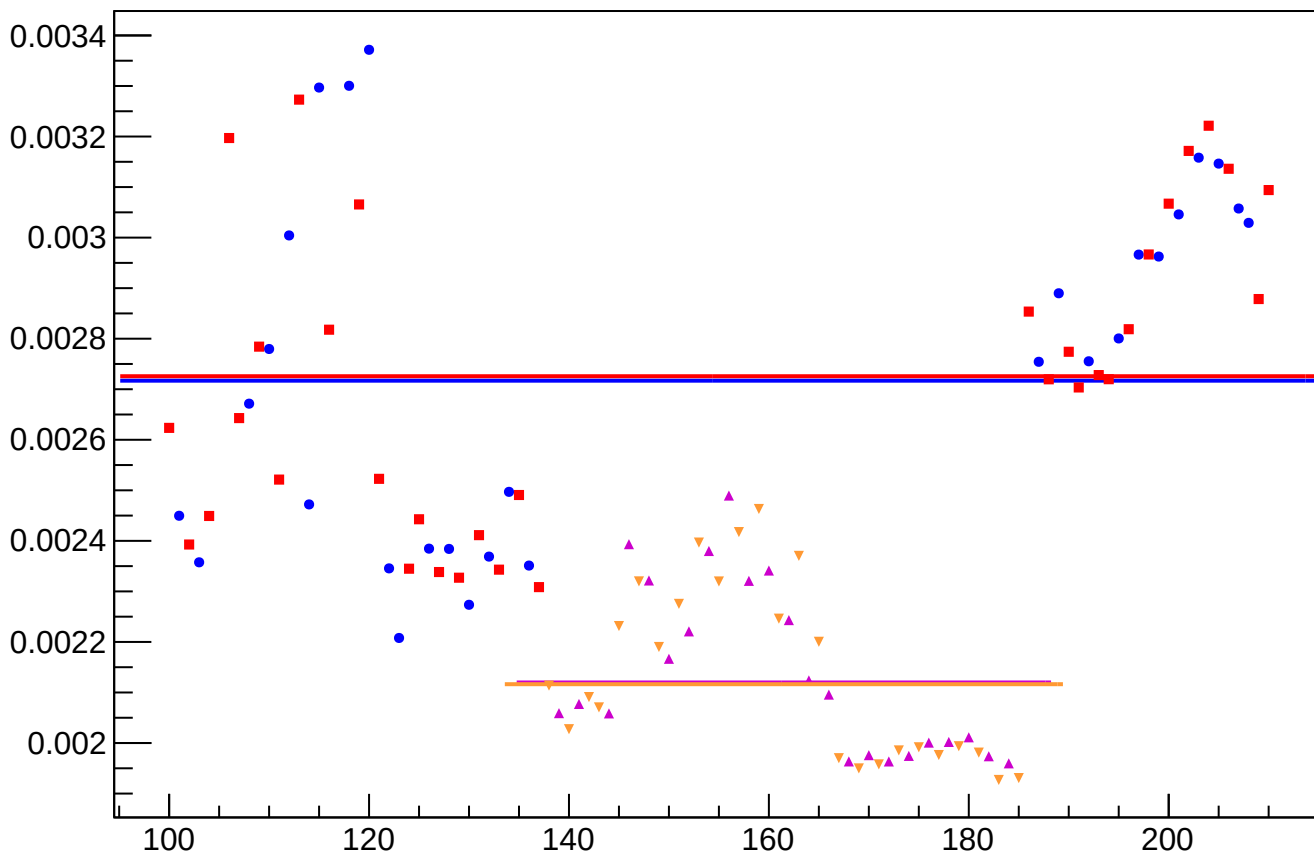
Left In: 0.201+/-0.000

χ^2/NDF : 5671770181.2/22

All: 0.327+/-0.000

χ^2/NDF : 526034823277.0

yield_bpm0l07Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 400882.9/27

Left Out: 0.002+/-0.000 χ^2/NDF :224498.3/24

Right Out: 0.003+/-0.000 χ^2/NDF : 348158.4/32

Left In: 0.002+/-0.000 χ^2/NDF :189228.6/22

Left: 0.002+/-0.000 χ^2/NDF : 413772.2/47

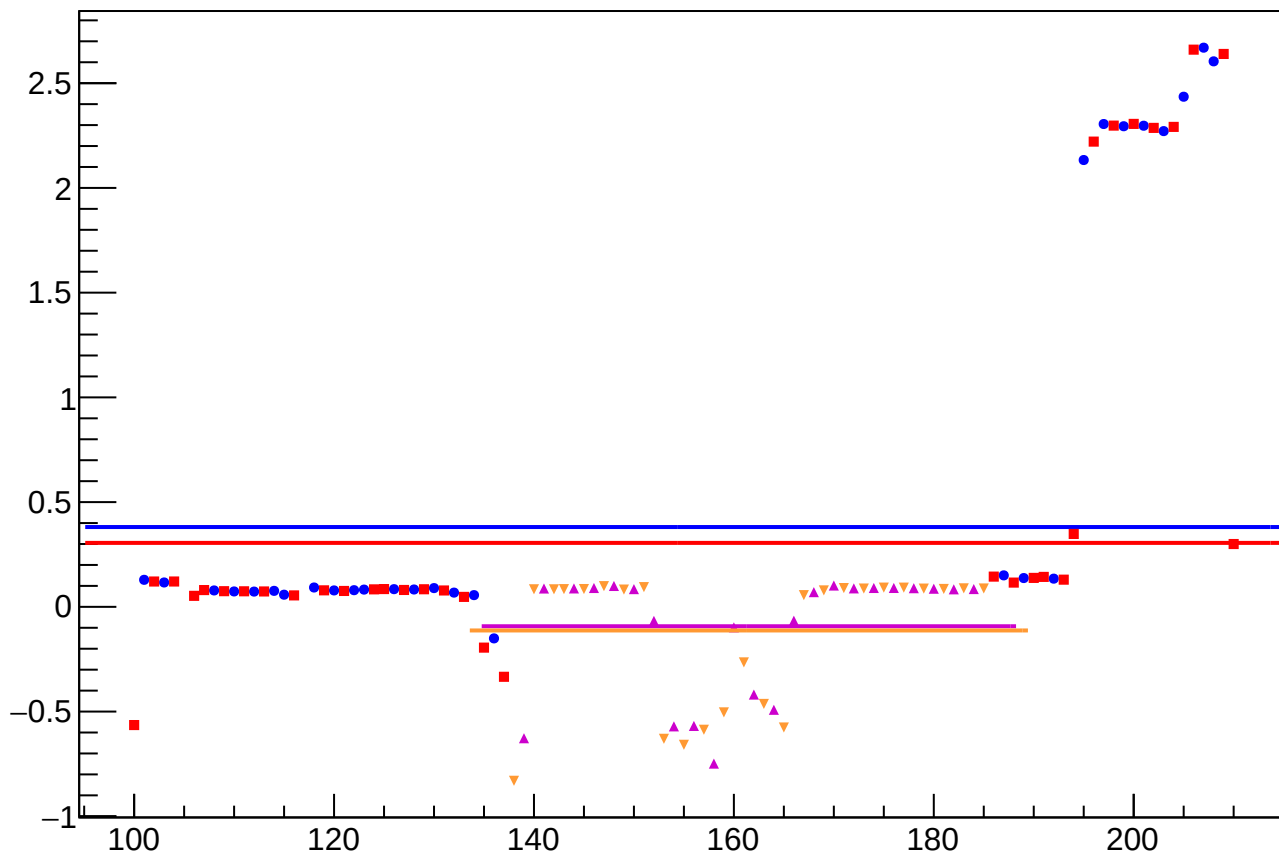
Right: 0.003+/-0.000 χ^2/NDF : 749194.8/60

In: 0.002+/-0.000 χ^2/NDF :1485383.0/50

Out: 0.002+/-0.000 χ^2/NDF :1607930.5/57

All: 0.002+/-0.000 χ^2/NDF : 3093873.2/108

yield_bpm0l08X_mean vs Slug, Sign Corrected



Right In: 0.381+/-0.000

χ^2/NDF : 54856991333.1/27

Left: -0.103+/-0.000

χ^2/NDF : 24747894543.0/47

Left Out: -0.113+/-0.000

χ^2/NDF : 13667354077.1/24

Right: 0.339+/-0.000

χ^2/NDF : 106959759890.8/60

Right Out: 0.305+/-0.000

χ^2/NDF : 51835280056.1/32

In: 0.087+/-0.000

χ^2/NDF : 77739655608.8/50

Out: 0.061+/-0.000

χ^2/NDF : 76053309774.2/57

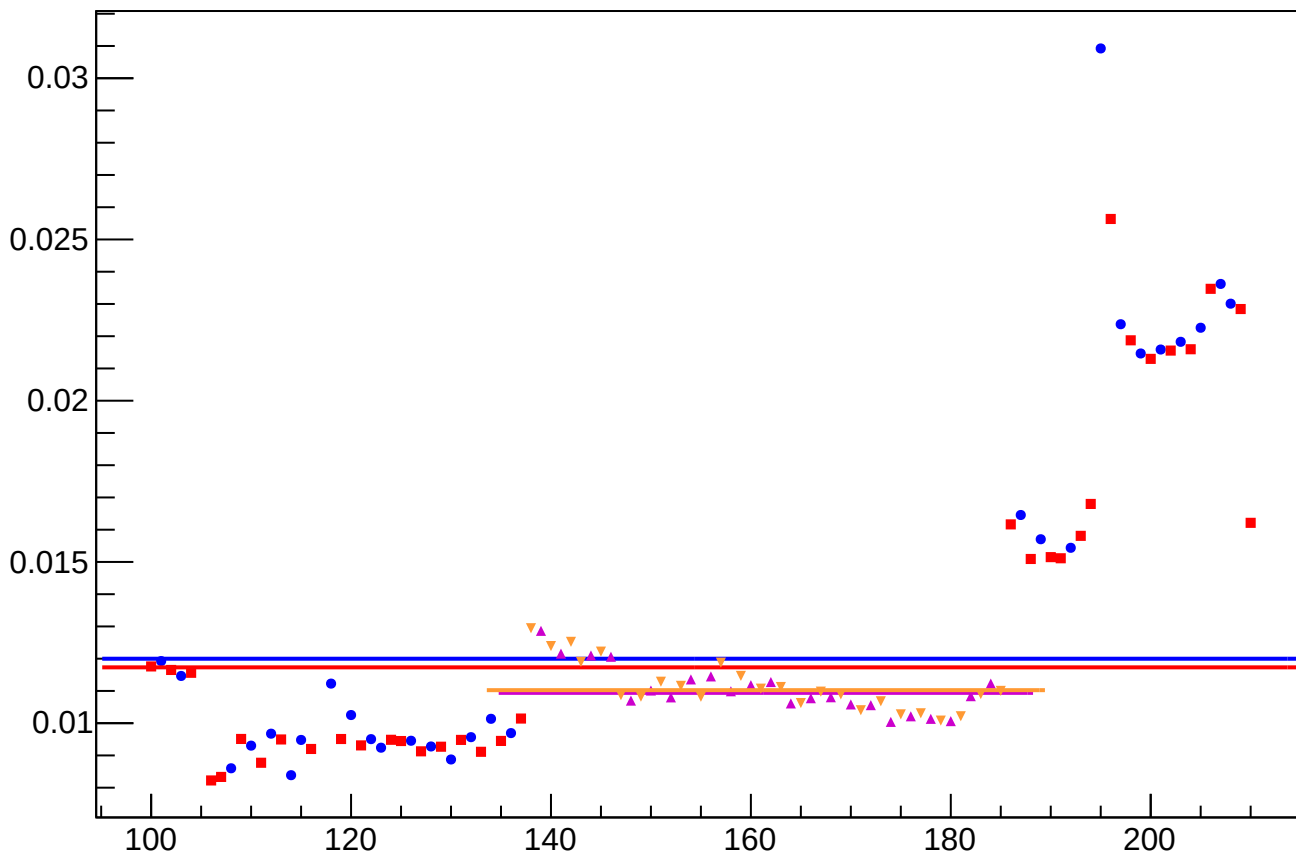
Left In: -0.093+/-0.000

χ^2/NDF : 11051944893.7/22

All: 0.074+/-0.000

χ^2/NDF : 153871900150.8

yield_bpm0l08X_rms vs Slug, Sign Corrected



Right In: 0.012 $\pm$ 0.000 χ^2 /NDF: 3852924.6/27

Left Out: 0.011 $\pm$ 0.000 χ^2 /NDF:141501.7/24

Right Out: 0.012 $\pm$ 0.000 χ^2 /NDF: 3908433.6/32

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

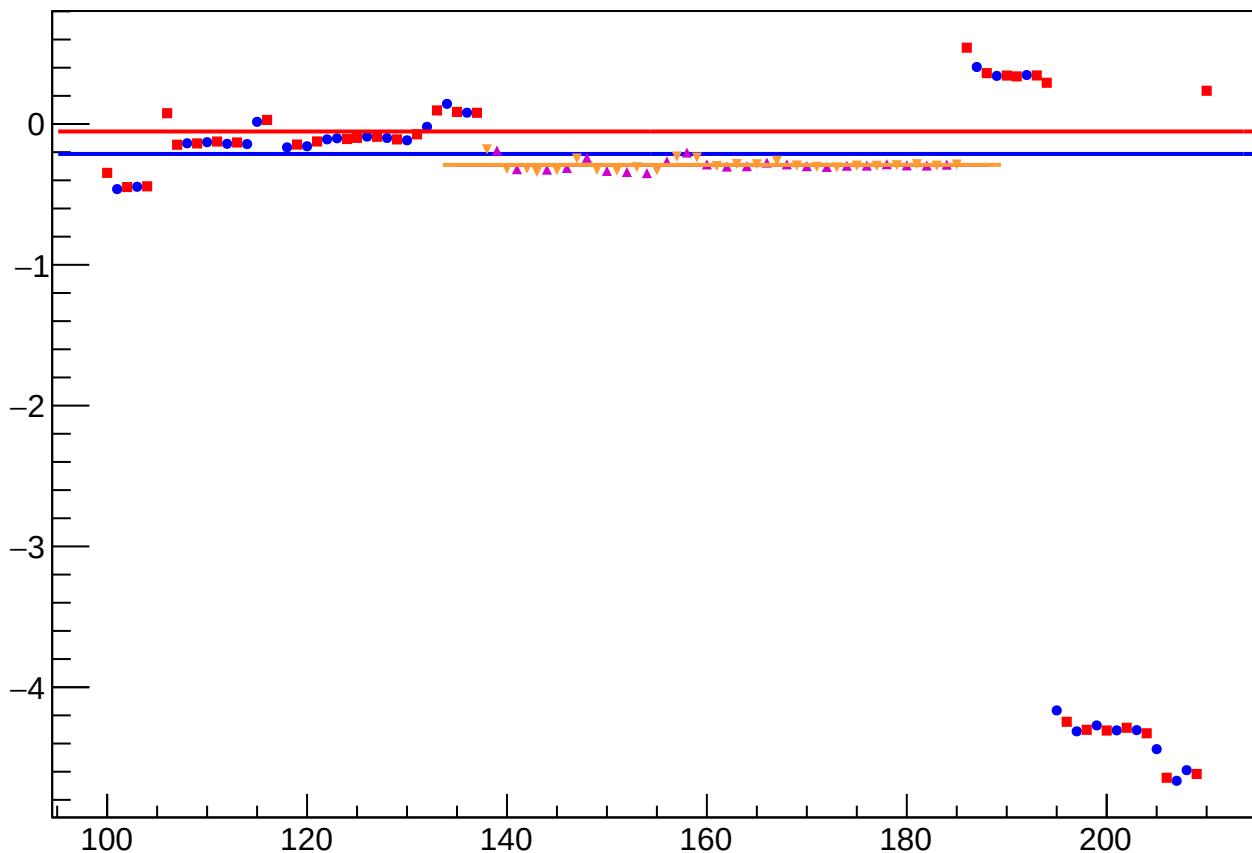
Right: 0.012 $\pm$ 0.000 χ^2 /NDF: 7768053.5/60

In: 0.011 $\pm$ 0.000 χ^2 /NDF:4099992.3/50

Out: 0.011 $\pm$ 0.000 χ^2 /NDF:4110344.9/57

All: 0.011 $\pm$ 0.000 χ^2 /NDF: 8210475.1/108

yield_bpm0l08Y_mean vs Slug, Sign Corrected



Right In: -0.213 $\pm$ 0.000 χ^2/NDF : 338172374161.0/27

Left Out: -0.290 $\pm$ 0.000 χ^2/NDF : 2877519093.0/24

Right Out: -0.053 $\pm$ 0.000 χ^2/NDF : 337171318817.8/32

Left In: -0.291 $\pm$ 0.000 χ^2/NDF : 3125402243.3/22

Left: -0.291 $\pm$ 0.000 χ^2/NDF : 6003615293.4/47

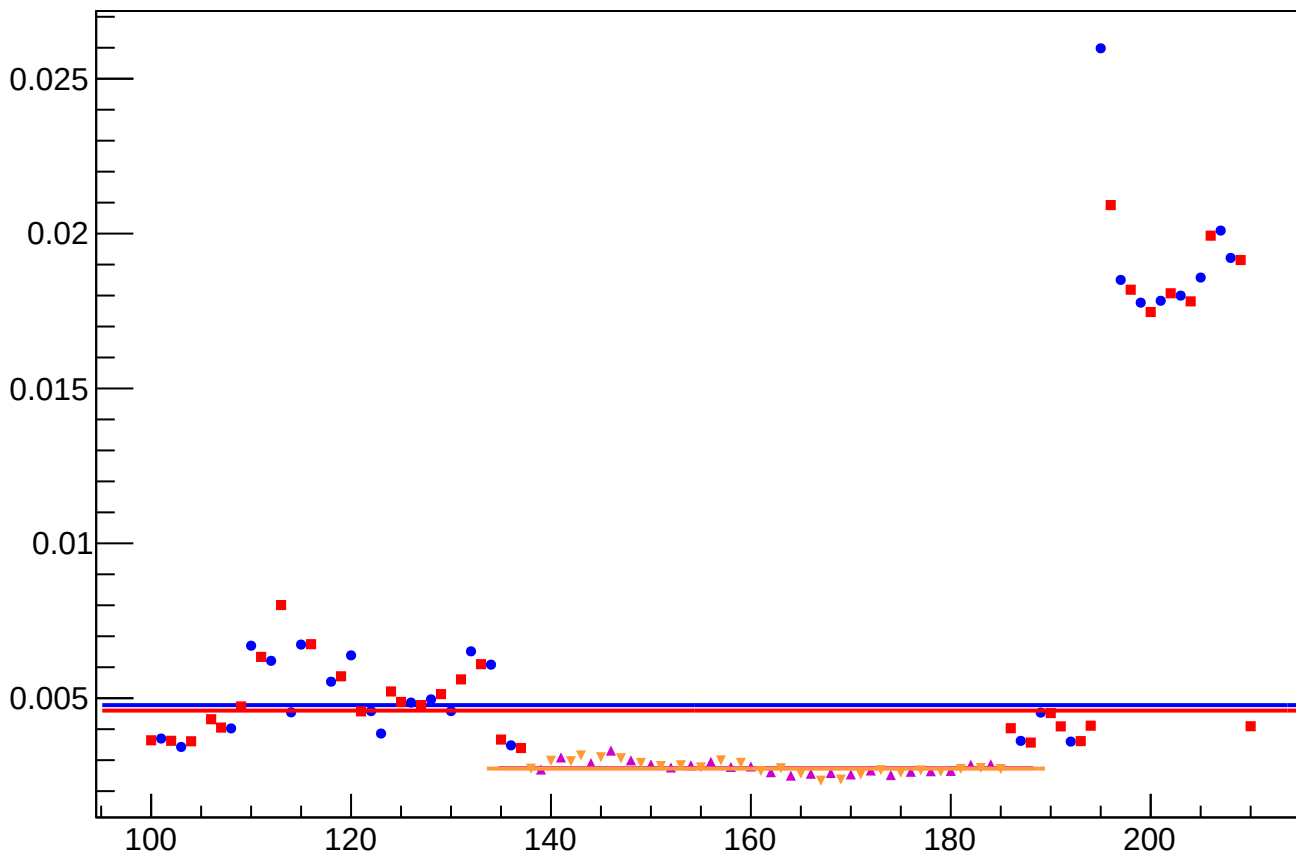
Right: -0.122 $\pm$ 0.000 χ^2/NDF : 681553989618.2/60

In: -0.278 $\pm$ 0.000 χ^2/NDF : 343501896925.9/50

Out: -0.244 $\pm$ 0.000 χ^2/NDF : 365818225328.2/57

All: -0.260 $\pm$ 0.000 χ^2/NDF : 710923963488.5

yield_bpm0l08Y_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 7979409.5/27

Left Out: 0.003+/-0.000 χ^2/NDF :206527.1/24

Right Out: 0.005+/-0.000 χ^2/NDF : 6956005.8/32

Left In: 0.003+/-0.000 χ^2/NDF :147778.8/22

Left: 0.003+/-0.000 χ^2/NDF : 354733.7/47

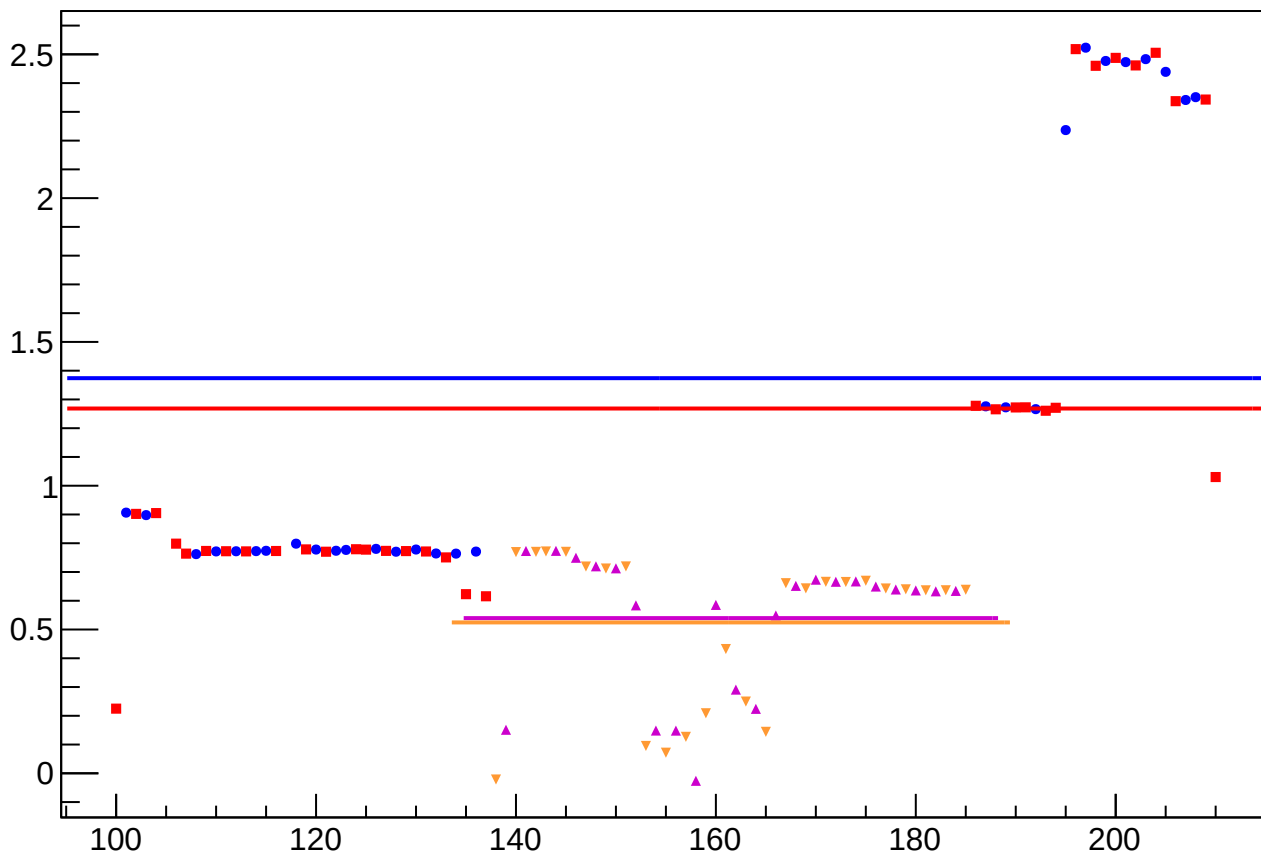
Right: 0.005+/-0.000 χ^2/NDF : 14950581.7/60

In: 0.003+/-0.000 χ^2/NDF :11092192.7/50

Out: 0.003+/-0.000 χ^2/NDF :10373072.2/57

All: 0.003+/-0.000 χ^2/NDF : 21466192.0/108

yield_bpm0l09X_mean vs Slug, Sign Corrected



Right In: 1.374+/-0.000

χ^2/NDF : 52556812319.5/27

Left: 0.532+/-0.000

χ^2/NDF : 17500739852.2/47

Left Out: 0.525+/-0.000

χ^2/NDF : 9623503169.9/24

Right: 1.317+/-0.000

χ^2/NDF : 106385903247.0/60

Right Out: 1.268+/-0.000

χ^2/NDF : 53281733968.2/32

In: 0.859+/-0.000

χ^2/NDF : 99283124801.0/50

Out: 0.833+/-0.000

χ^2/NDF : 97830014802.2/57

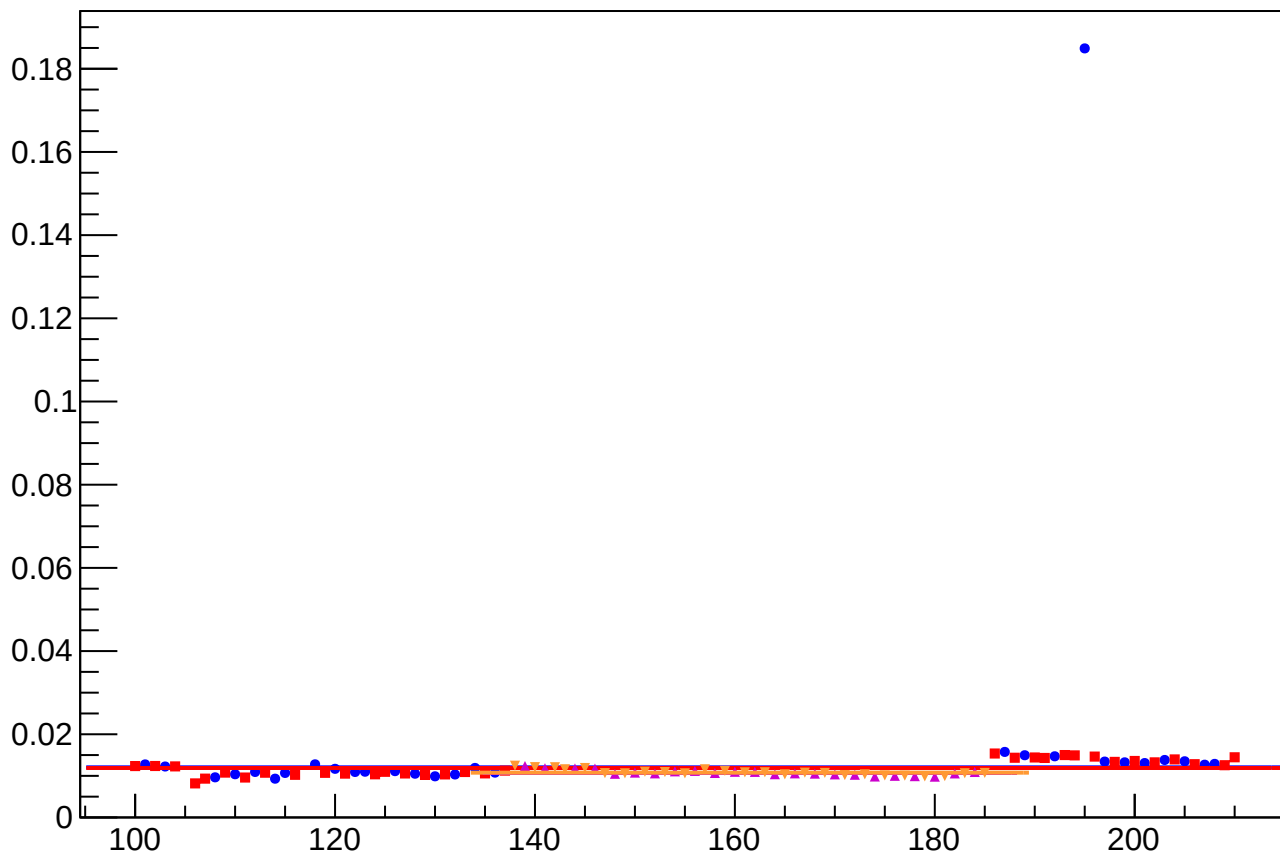
Left In: 0.540+/-0.000

χ^2/NDF : 7860539135.5/22

All: 0.845+/-0.000

χ^2/NDF : 197198355796.9

yield_bpm0l09X_rms vs Slug, Sign Corrected



Right In: 0.012+/-0.000 χ^2/NDF : 1895180.6/27

Left Out: 0.011+/-0.000 χ^2/NDF :131630.9/24

Right Out: 0.012+/-0.000 χ^2/NDF : 769927.3/32

Left In: 0.011+/-0.000 χ^2/NDF :119273.2/22

Left: 0.011+/-0.000 χ^2/NDF : 251802.6/47

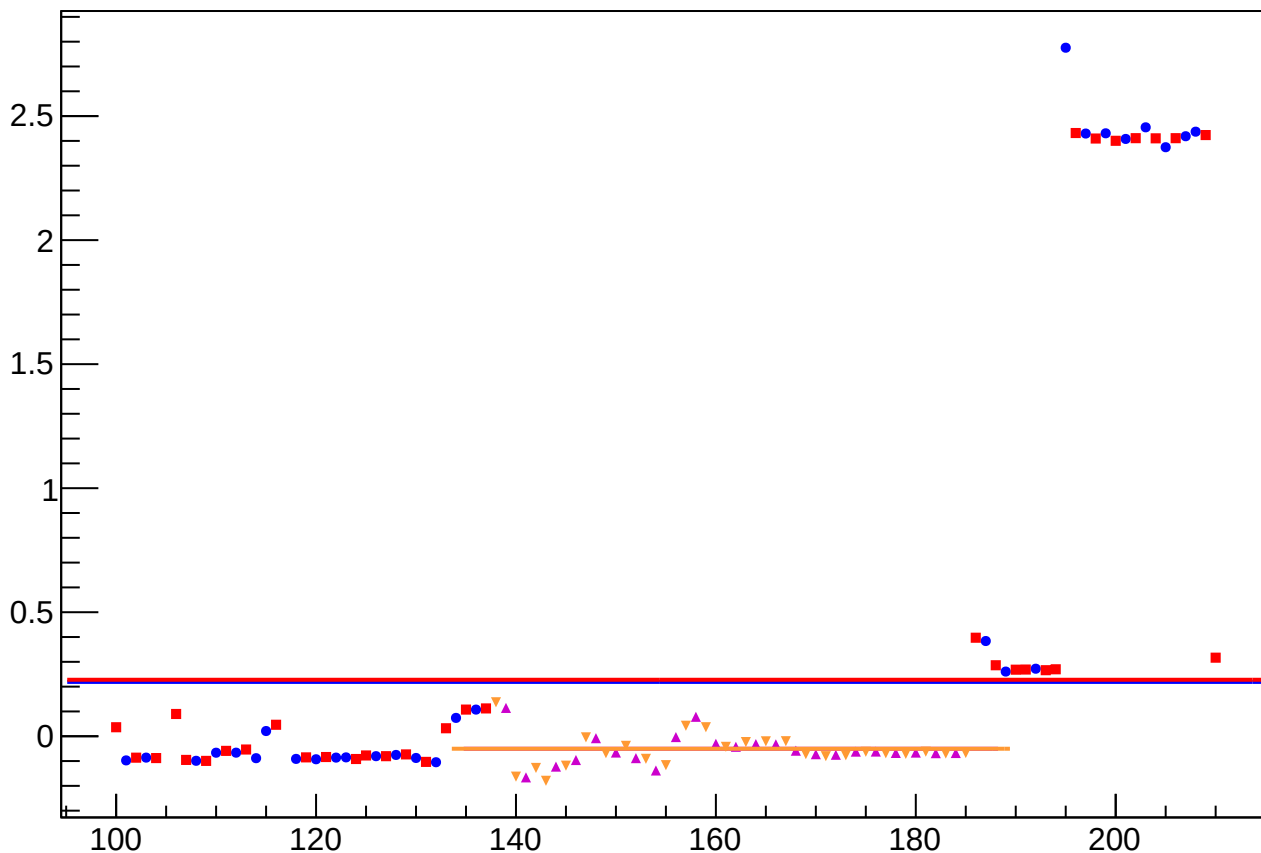
Right: 0.012+/-0.000 χ^2/NDF : 2667309.0/60

In: 0.011+/-0.000 χ^2/NDF :2218370.8/50

Out: 0.011+/-0.000 χ^2/NDF :1061111.0/57

All: 0.011+/-0.000 χ^2/NDF : 3279649.5/108

yield_bpm0l09Y_mean vs Slug, Sign Corrected



Right In: 0.219+/-0.000

χ^2/NDF : 177790903331.3/27

Left: -0.050+/-0.000

χ^2/NDF : 13400329490.2/47

Left Out: -0.050+/-0.000

χ^2/NDF : 7271496478.6/24

Right: 0.224+/-0.000

χ^2/NDF : 337499372226.0/60

Right Out: 0.228+/-0.000

χ^2/NDF : 159691740741.1/32

In: -0.000+/-0.000

χ^2/NDF : 207978347037.5/50

Out: 0.007+/-0.000

χ^2/NDF : 197838281474.7/57

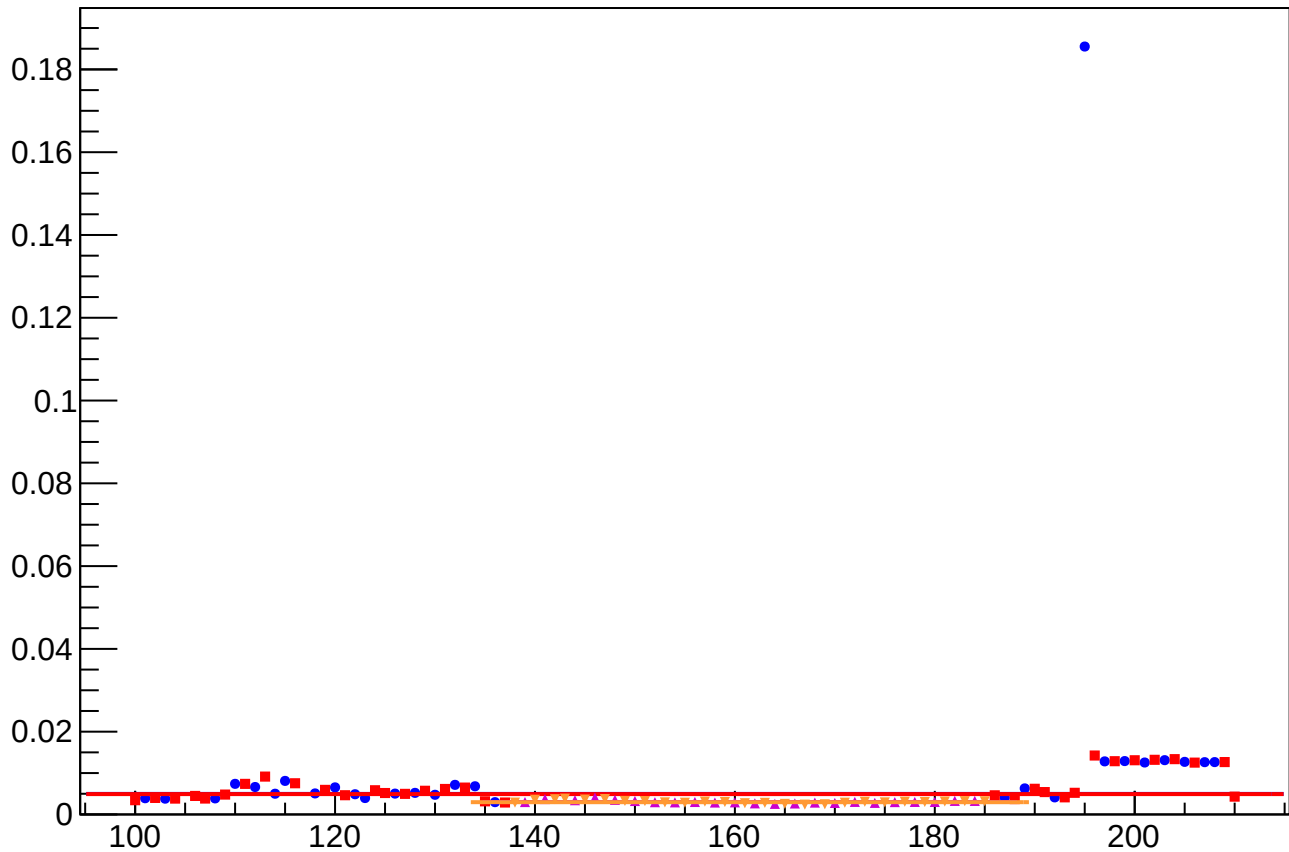
Left In: -0.051+/-0.000

χ^2/NDF : 6128769990.8/22

All: 0.003+/-0.000

χ^2/NDF : 405879354744.0

yield_bpm0l09Y_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 6841743.6/27

Left Out: 0.003+/-0.000 χ^2/NDF :499039.1/24

Right Out: 0.005+/-0.000 χ^2/NDF : 5121938.9/32

Left In: 0.003+/-0.000 χ^2/NDF :329068.1/22

Left: 0.003+/-0.000 χ^2/NDF : 831077.6/47

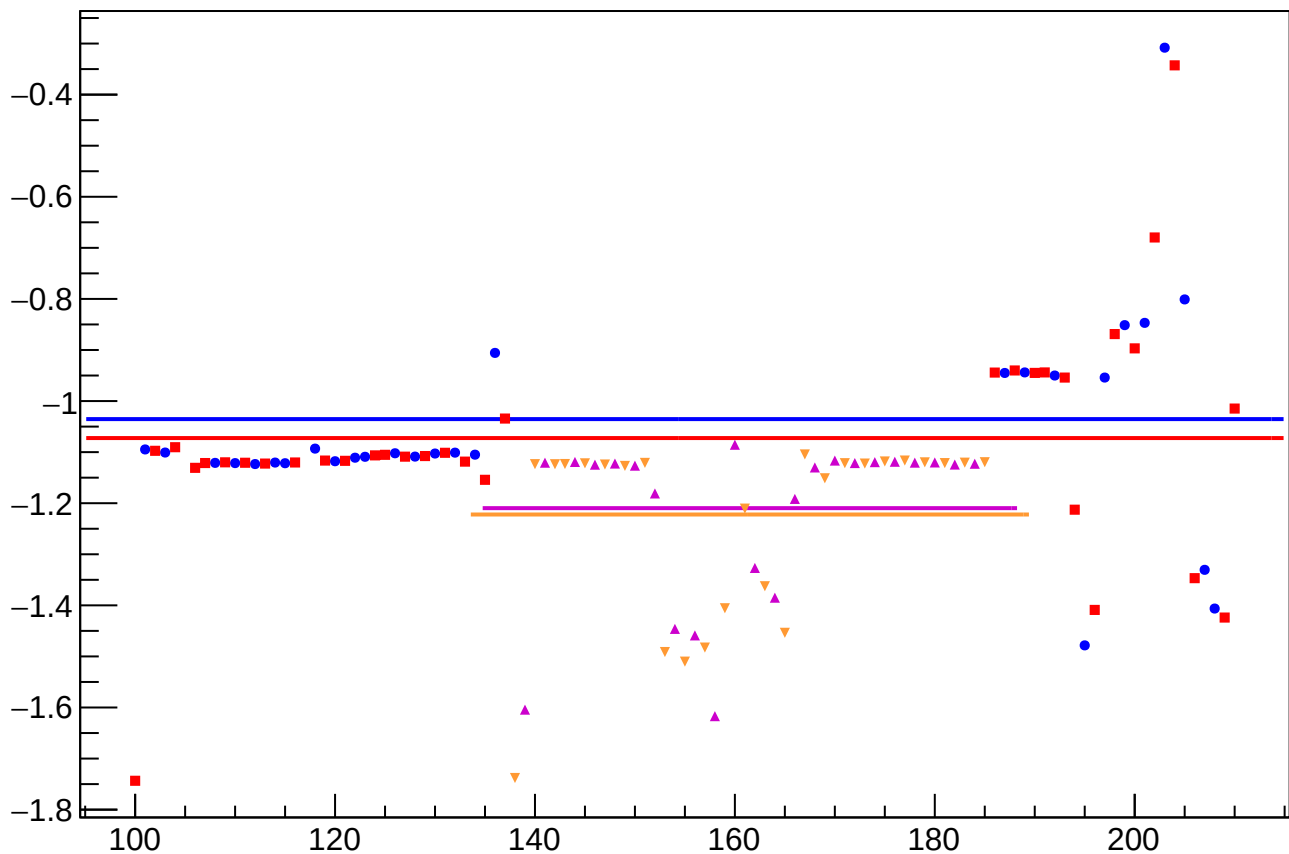
Right: 0.005+/-0.000 χ^2/NDF : 11964508.4/60

In: 0.003+/-0.000 χ^2/NDF :9699093.6/50

Out: 0.003+/-0.000 χ^2/NDF :8664264.8/57

All: 0.003+/-0.000 χ^2/NDF : 18363363.8/108

yield_bpm0l10X_mean vs Slug, Sign Corrected



Right In: -1.035+/-0.000 χ^2/NDF : 4945716891.4/27

Left Out: -1.222+/-0.000 χ^2/NDF : 5279548861.3/24

Right Out: -1.072+/-0.000 χ^2/NDF : 4647579802.5/32

Left In: -1.210+/-0.000 χ^2/NDF : 4502367902.8/22

Left: -1.216+/-0.000 χ^2/NDF : 9796254294.5/47

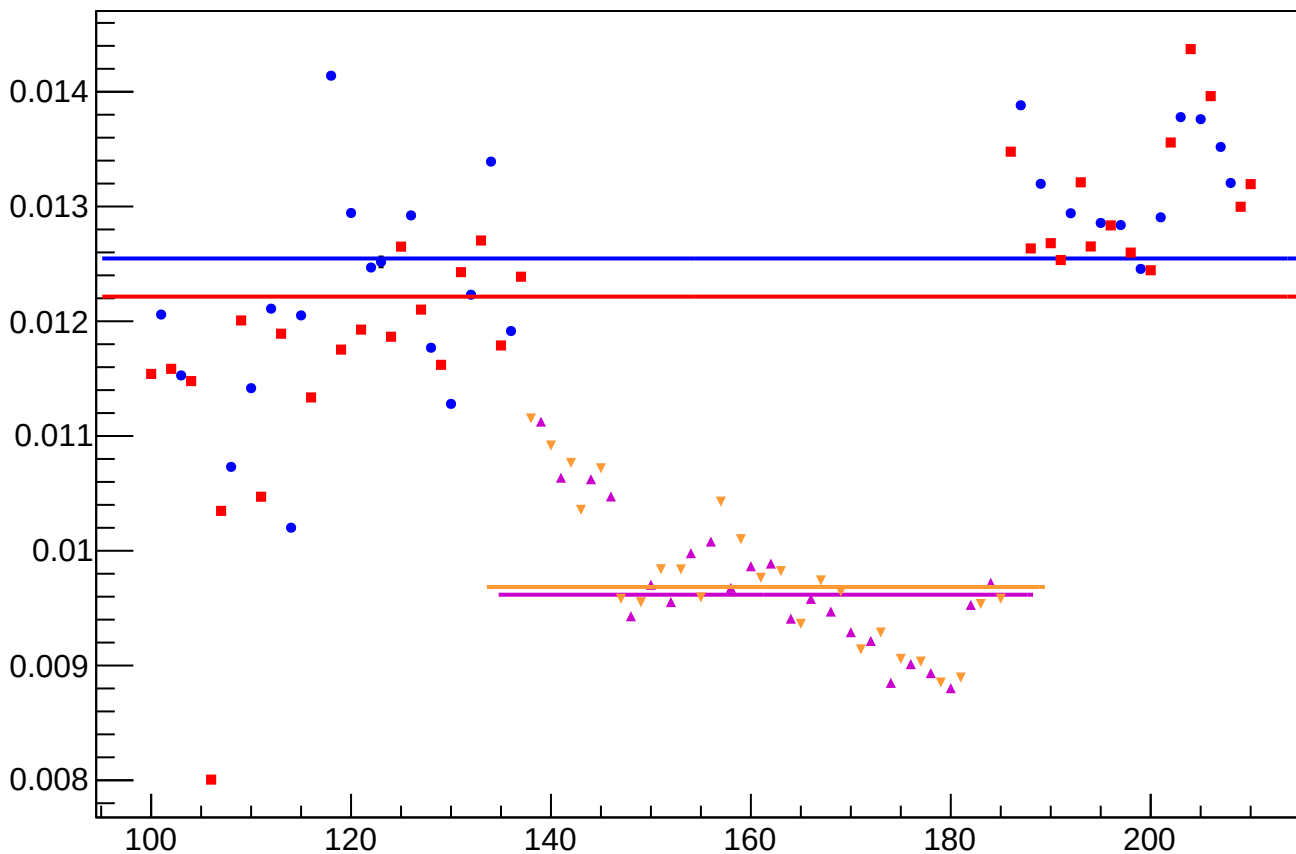
Right: -1.056+/-0.000 χ^2/NDF : 9660128792.9/60

In: -1.152+/-0.000 χ^2/NDF : 11258434988.4/50

Out: -1.168+/-0.000 χ^2/NDF : 11459228082.1/57

All: -1.161+/-0.000 χ^2/NDF : 22752418510.0/100

yield_bpm0l10X_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 132283.8/27

Left Out: 0.010+/-0.000 χ^2/NDF :134863.6/24

Right Out: 0.012+/-0.000 χ^2/NDF : 333535.1/32

Left In: 0.010+/-0.000 χ^2/NDF :119823.1/22

Left: 0.010+/-0.000 χ^2/NDF : 255532.7/47

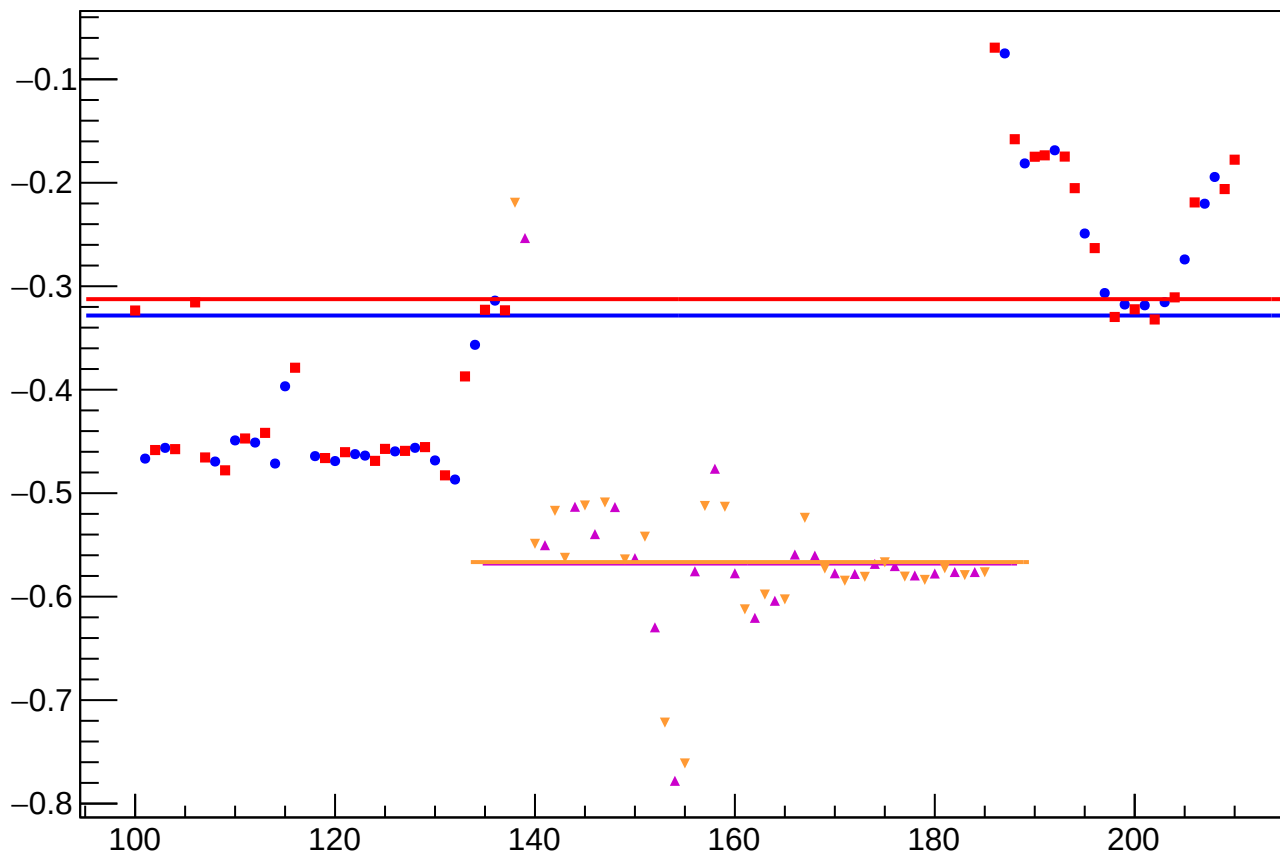
Right: 0.012+/-0.000 χ^2/NDF : 476537.9/60

In: 0.011+/-0.000 χ^2/NDF :1274583.2/50

Out: 0.011+/-0.000 χ^2/NDF :1343910.3/57

All: 0.011+/-0.000 χ^2/NDF : 2618589.2/108

yield_bpm0l10Y_mean vs Slug, Sign Corrected



Right In: -0.328+/-0.000

χ^2/NDF : 9962241779.4/27

Left: -0.567+/-0.000

χ^2/NDF : 23829000396.4/47

Left Out: -0.567+/-0.000

χ^2/NDF : 13368458519.3/24

Right: -0.320+/-0.000

χ^2/NDF : 23023746167.4/60

Right Out: -0.312+/-0.000

χ^2/NDF : 12932458928.1/32

In: -0.471+/-0.000

χ^2/NDF : 54705198590.5/50

Out: -0.465+/-0.000

χ^2/NDF : 67562145563.9/57

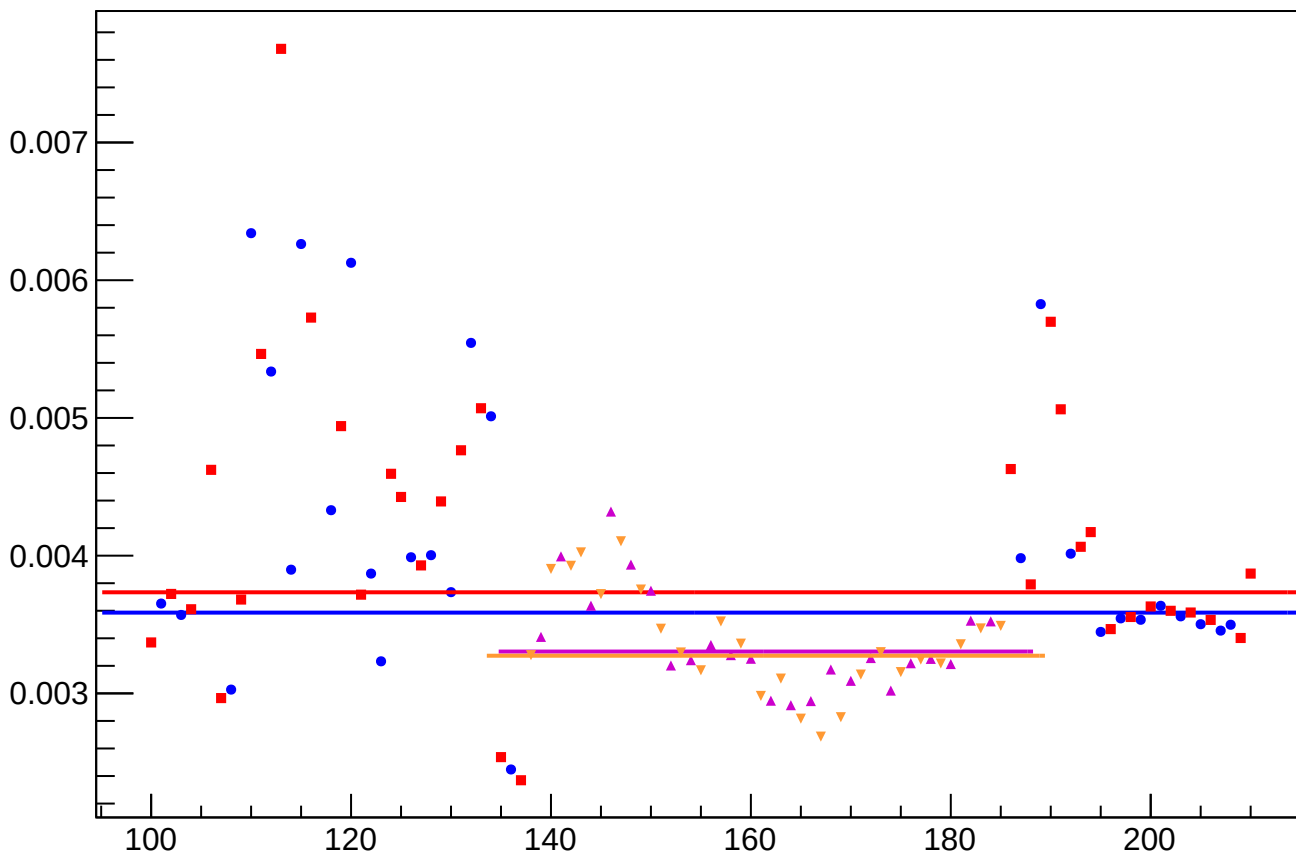
Left In: -0.568+/-0.000

χ^2/NDF : 10458990019.9/22

All: -0.468+/-0.000

χ^2/NDF : 122314610440.8

yield_bpm0l10Y_rms vs Slug, Sign Corrected



Right In: 0.004 $\pm$ 0.000 χ^2 /NDF: 997939.1/27

Left Out: 0.003 $\pm$ 0.000 χ^2 /NDF:394865.4/24

Right Out: 0.004 $\pm$ 0.000 χ^2 /NDF: 1086990.2/32

Left In: 0.003 $\pm$ 0.000 χ^2 /NDF:286064.1/22

Left: 0.003 $\pm$ 0.000 χ^2 /NDF: 682340.4/47

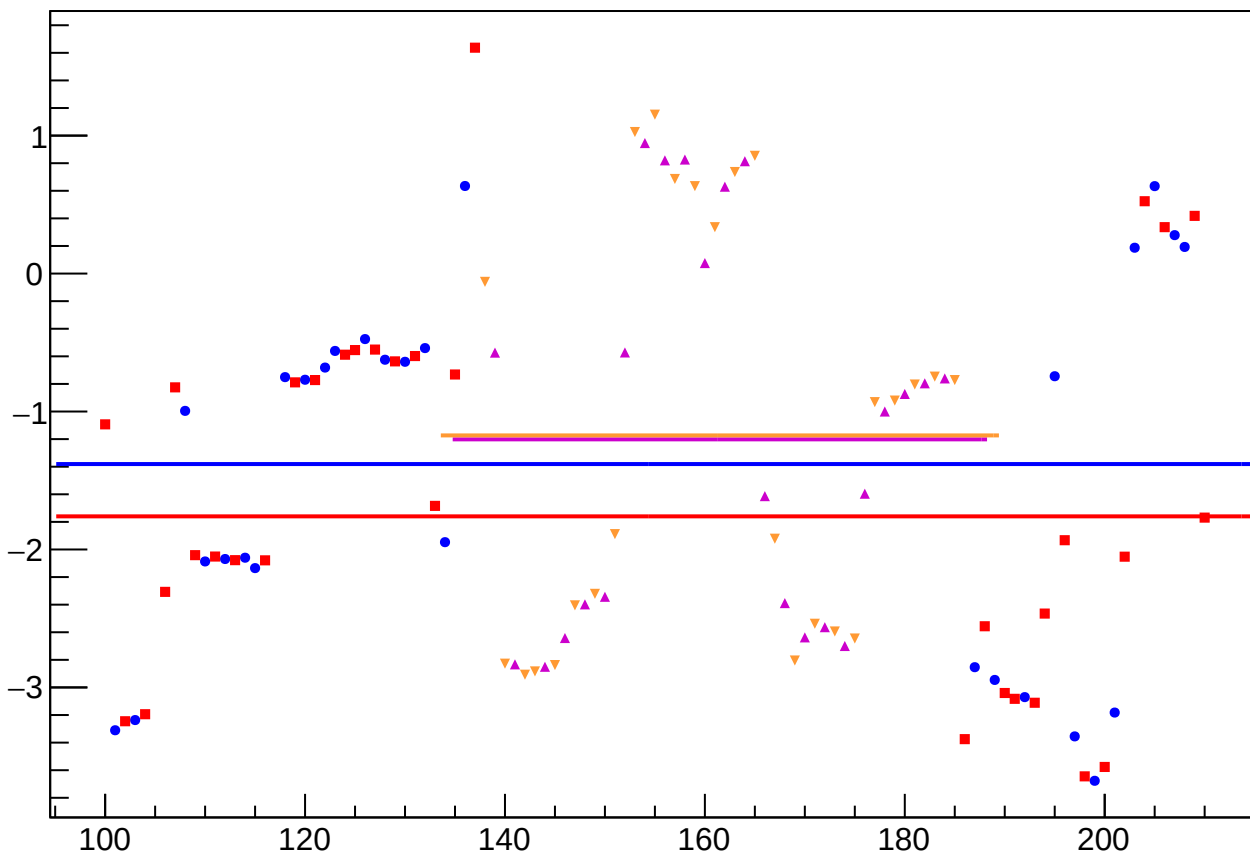
Right: 0.004 $\pm$ 0.000 χ^2 /NDF: 2107382.1/60

In: 0.003 $\pm$ 0.000 χ^2 /NDF:1379371.2/50

Out: 0.003 $\pm$ 0.000 χ^2 /NDF:1752951.8/57

All: 0.003 $\pm$ 0.000 χ^2 /NDF: 3136306.6/108

yield_bpm0r03X_mean vs Slug, Sign Corrected



Right In: -1.381+/-0.000

χ^2/NDF : 5776956239.3/27

Left Out: -1.173+/-0.000

χ^2/NDF : 6882684653.2/24

Right Out: -1.760+/-0.000

χ^2/NDF : 5216290127.8/32

Left In: -1.202+/-0.000

χ^2/NDF : 5606782515.9/22

Left: -1.187+/-0.000

χ^2/NDF : 12490828303.3/47

Right: -1.582+/-0.000

χ^2/NDF : 11189575319.1/60

In: -1.282+/-0.000

χ^2/NDF : 11429451319.9/50

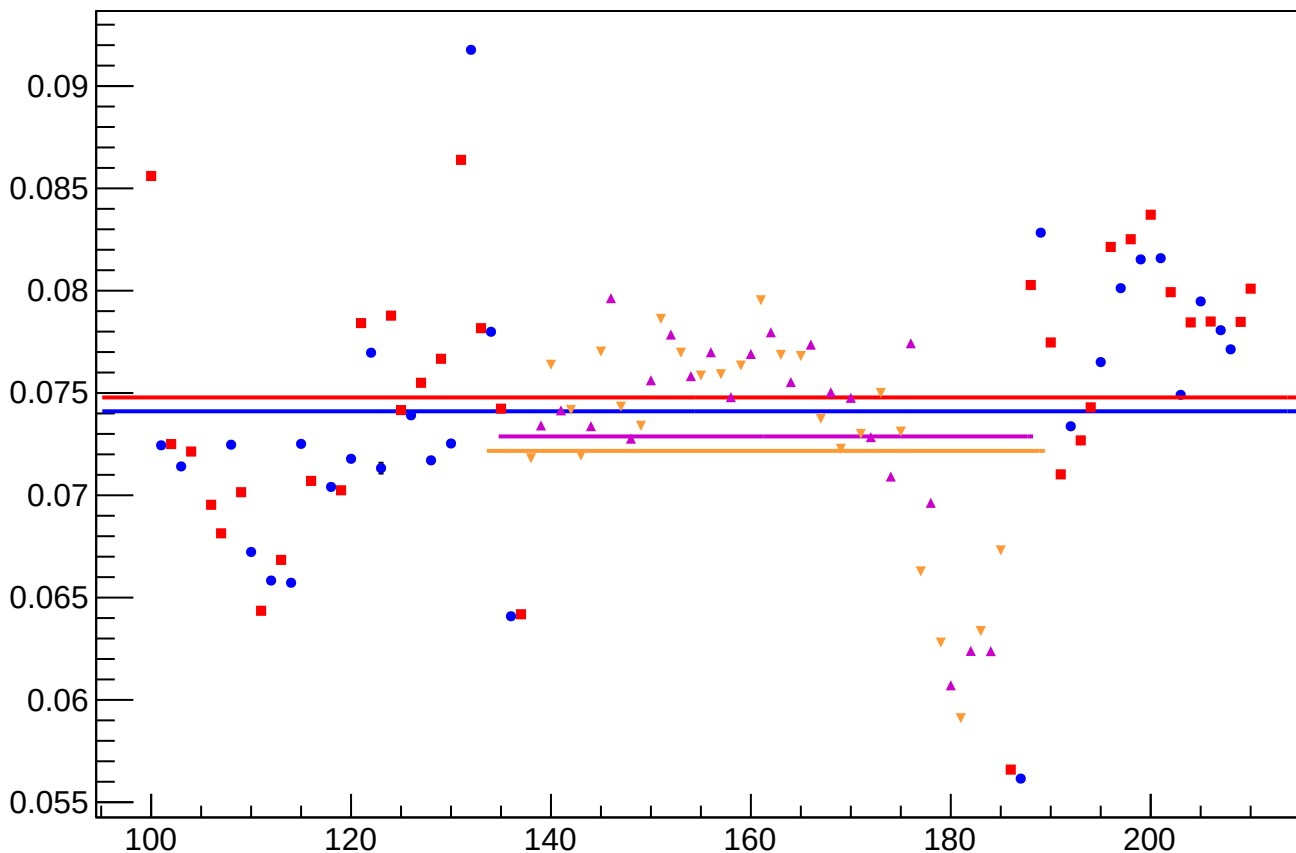
Out: -1.441+/-0.000

χ^2/NDF : 12642790586.8/57

All: -1.365+/-0.000

χ^2/NDF : 24148948277.5/100

yield_bpm0r03X_rms vs Slug, Sign Corrected



Right In: 0.074 $\pm$ 0.000 χ^2 /NDF: 191908.6/27

Left Out: 0.072 $\pm$ 0.000 χ^2 /NDF:222263.8/24

Right Out: 0.075 $\pm$ 0.000 χ^2 /NDF: 241620.4/32

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

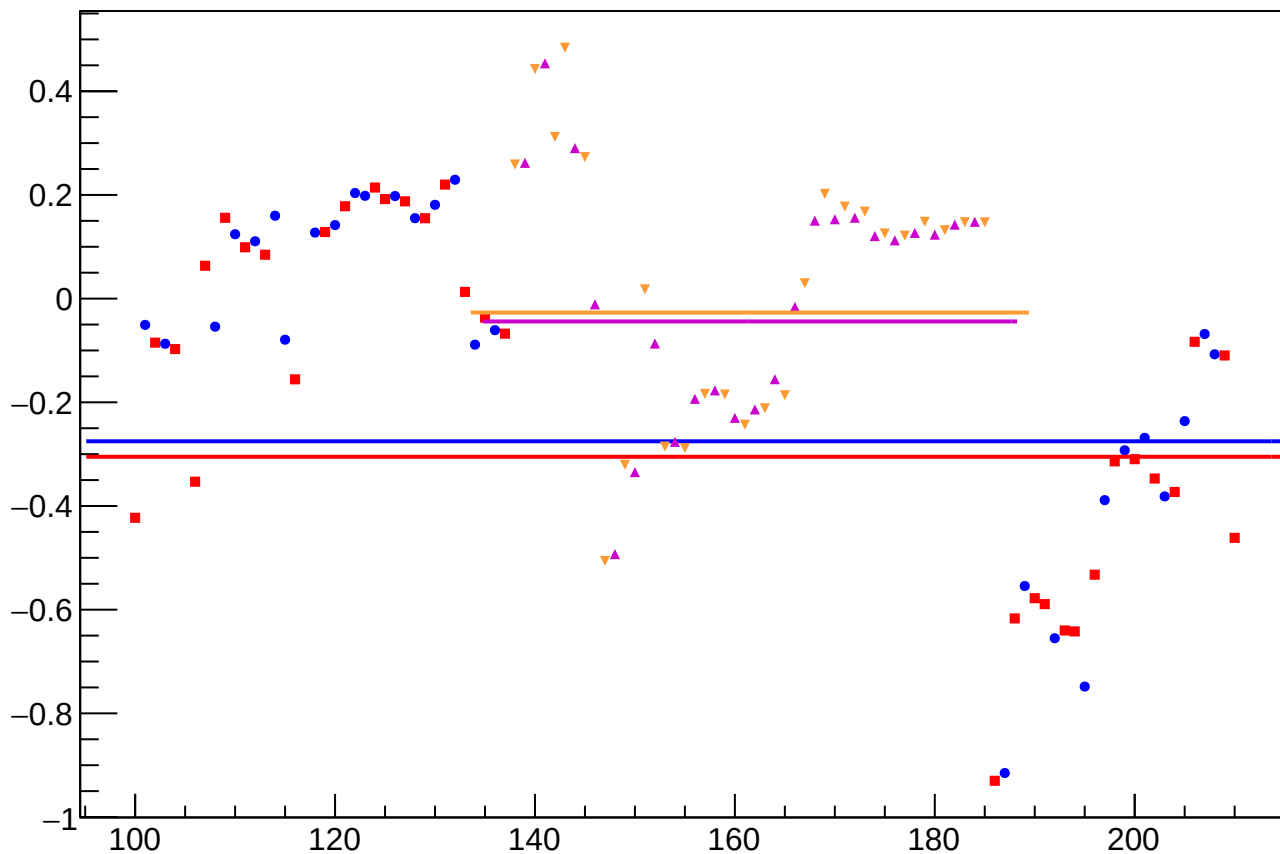
Right: 0.074 $\pm$ 0.000 χ^2 /NDF: 434782.6/60

In: 0.073 $\pm$ 0.000 χ^2 /NDF:379715.8/50

Out: 0.073 $\pm$ 0.000 χ^2 /NDF:485436.7/57

All: 0.073 $\pm$ 0.000 χ^2 /NDF: 865176.4/108

yield_bpm0r03Y_mean vs Slug, Sign Corrected



Right In: -0.275+/-0.000

χ^2/NDF : 13770949046.0/27

Left: -0.035+/-0.000

χ^2/NDF : 36148383394.4/47

Left Out: -0.027+/-0.000

χ^2/NDF : 20376761328.6/24

Right: -0.291+/-0.000

χ^2/NDF : 27059197998.8/60

Right Out: -0.305+/-0.000

χ^2/NDF : 13193554565.0/32

In: -0.131+/-0.000

χ^2/NDF : 36390458662.2/50

Out: -0.129+/-0.000

χ^2/NDF : 44294926029.5/57

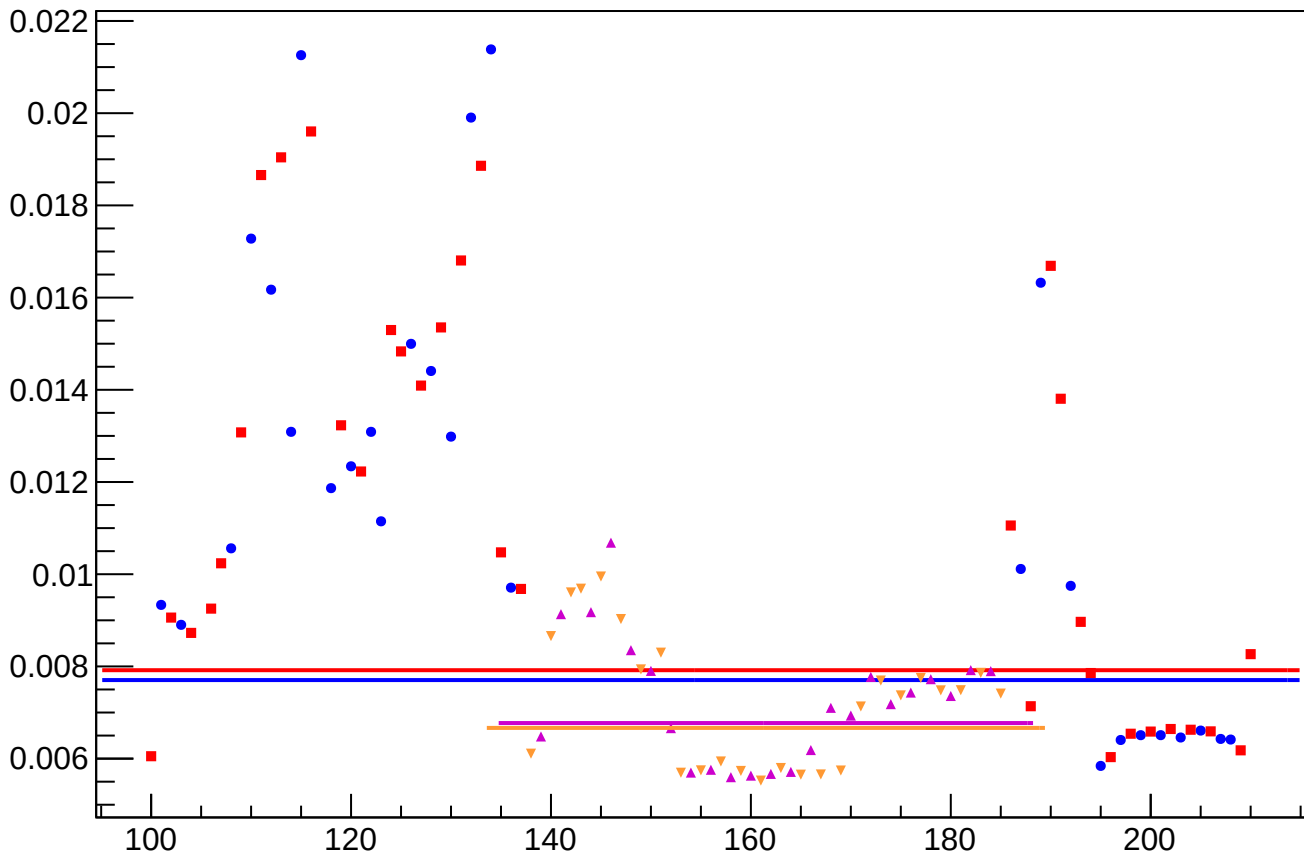
Left In: -0.044+/-0.000

χ^2/NDF : 15718556282.1/22

All: -0.130+/-0.000

χ^2/NDF : 80686167104.3/100

yield_bpm0r03Y_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 2786650.9/27

Left Out: 0.007+/-0.000 χ^2/NDF :1143768.6/24

Right Out: 0.008+/-0.000 χ^2/NDF : 3074345.1/32

Left In: 0.007+/-0.000 χ^2/NDF :934050.3/22

Left: 0.007+/-0.000 χ^2/NDF : 2081836.1/47

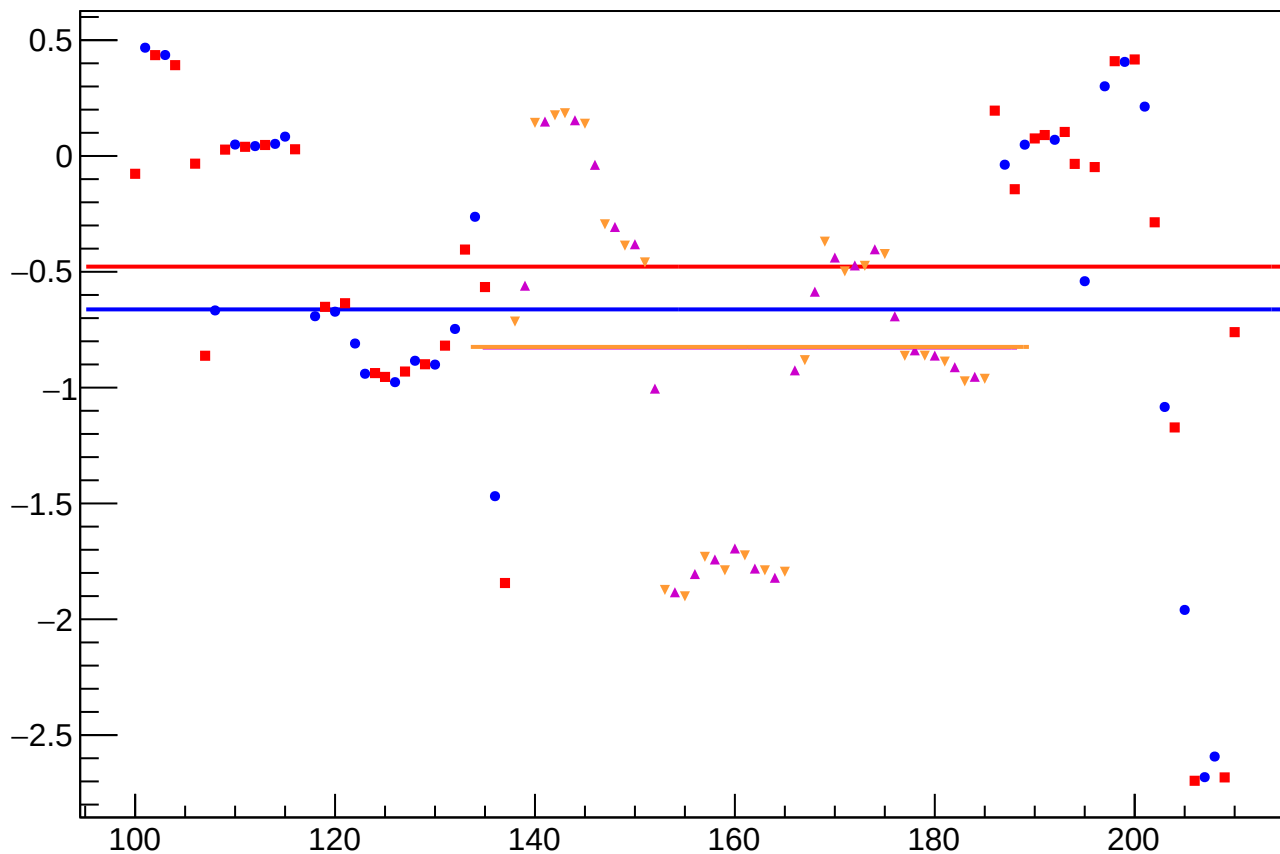
Right: 0.008+/-0.000 χ^2/NDF : 5870739.8/60

In: 0.007+/-0.000 χ^2/NDF :3945146.5/50

Out: 0.007+/-0.000 χ^2/NDF :4652529.2/57

All: 0.007+/-0.000 χ^2/NDF : 8597688.4/108

yield_bpm0r05X_mean vs Slug, Sign Corrected



Right In: -0.662+/-0.000

χ^2/NDF : 1460755922.2/27

Left: -0.826+/-0.000

χ^2/NDF : 2025270716.0/47

Left Out: -0.824+/-0.000

χ^2/NDF : 1103610806.5/24

Right: -0.564+/-0.000

χ^2/NDF : 2966339275.6/60

Right Out: -0.478+/-0.000

χ^2/NDF : 1474546864.2/32

In: -0.758+/-0.000

χ^2/NDF : 2409295274.6/50

Out: -0.675+/-0.000

χ^2/NDF : 2710729615.8/57

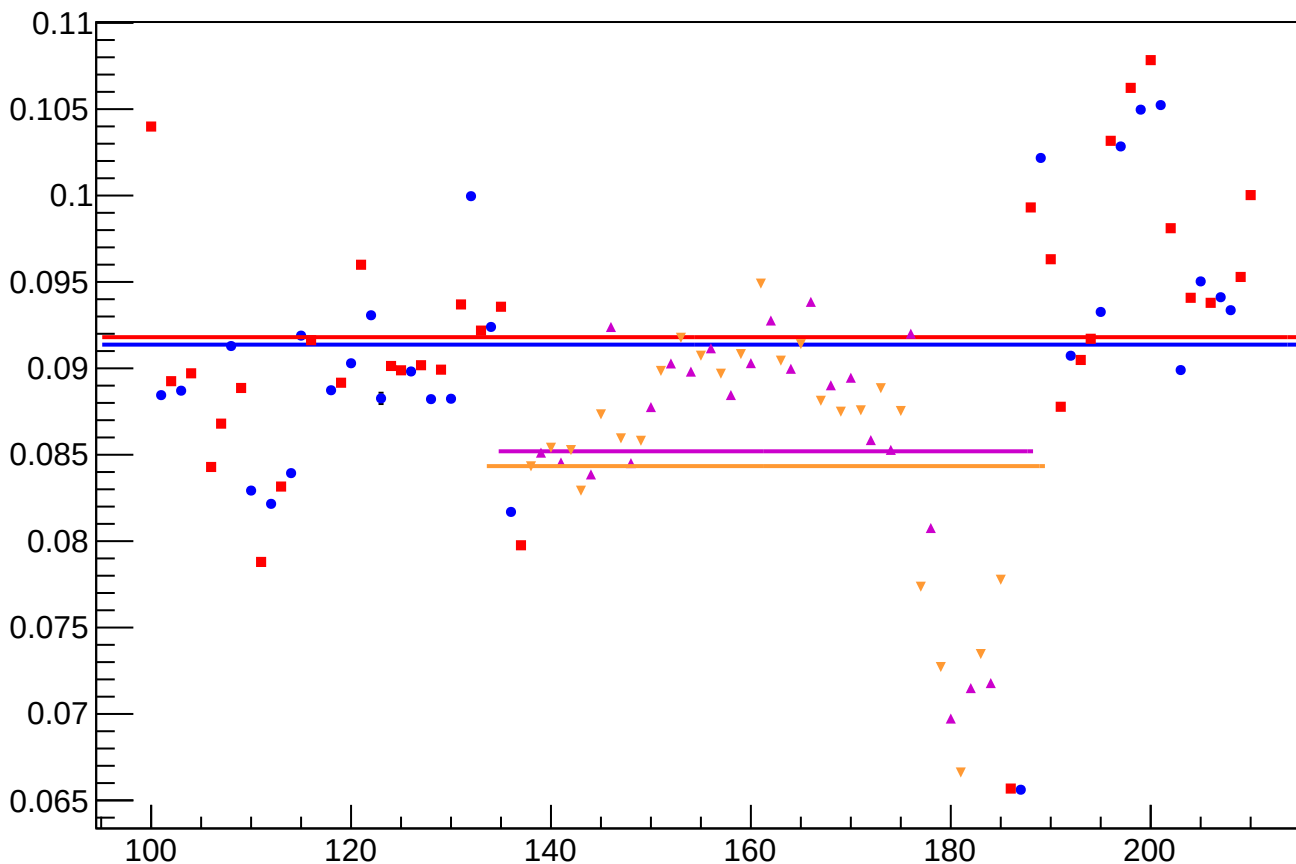
Left In: -0.827+/-0.000

χ^2/NDF : 921651117.3/22

All: -0.714+/-0.000

χ^2/NDF : 5134804118.8/1

yield_bpm0r05X_rms vs Slug, Sign Corrected



Right In: 0.091+/-0.000 χ^2/NDF : 191261.7/27

Left Out: 0.084+/-0.000 χ^2/NDF : 288312.6/24

Right Out: 0.092+/-0.000 χ^2/NDF : 293716.2/32

Left In: 0.085+/-0.000 χ^2/NDF : 238313.9/22

Left: 0.085+/-0.000 χ^2/NDF : 528427.1/47

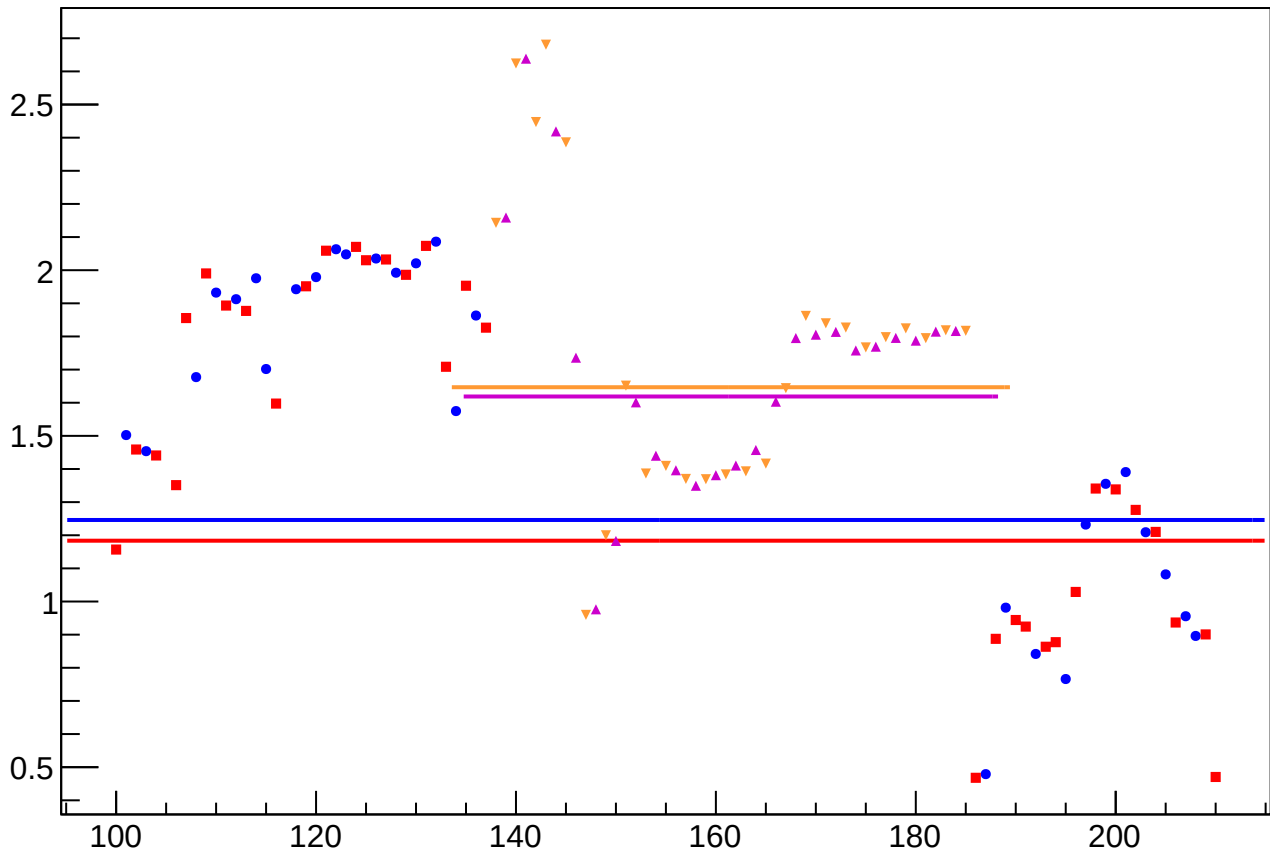
Right: 0.092+/-0.000 χ^2/NDF : 485317.6/60

In: 0.088+/-0.000 χ^2/NDF : 505182.2/50

Out: 0.088+/-0.000 χ^2/NDF : 704921.8/57

All: 0.088+/-0.000 χ^2/NDF : 1210330.2/108

yield_bpm0r05Y_mean vs Slug, Sign Corrected



Right In: 1.246 $\pm$ 0.000 χ^2 /NDF: 15573971432.7/27

Left Out: 1.647 $\pm$ 0.000 χ^2 /NDF: 26535241545.7/24

Right Out: 1.184 $\pm$ 0.000 χ^2 /NDF: 17174748257.0/32

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

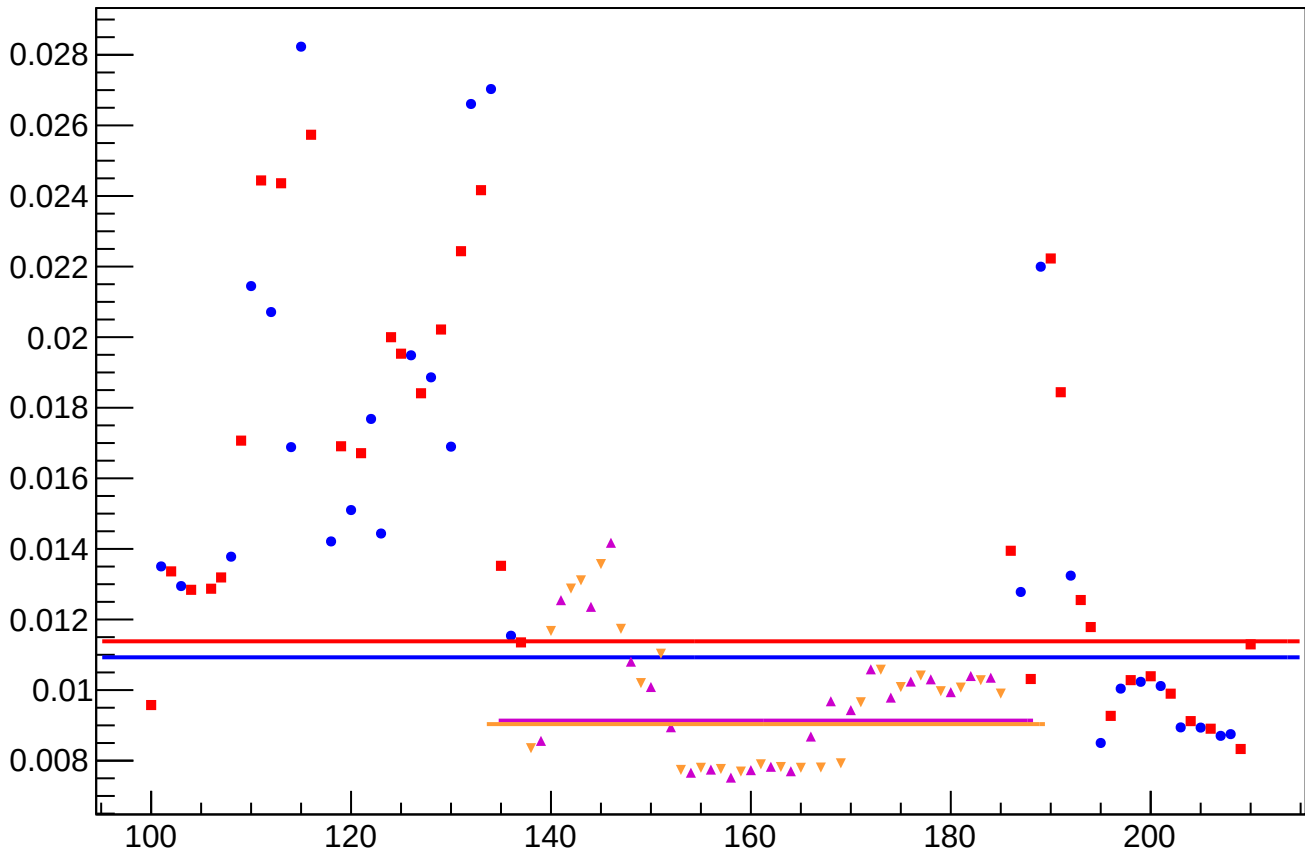
Right: 1.214 $\pm$ 0.000 χ^2 /NDF: 32956999565.0/60

In: 1.487 $\pm$ 0.000 χ^2 /NDF: 45595489939.0/50

Out: 1.488 $\pm$ 0.000 χ^2 /NDF: 59005740726.6/57

All: 1.488 $\pm$ 0.000 χ^2 /NDF: 104601412213.7

yield_bpm0r05Y_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 2243082.8/27

Left Out: 0.009+/-0.000 χ^2/NDF :1042871.8/24

Right Out: 0.011+/-0.000 χ^2/NDF : 2524550.9/32

Left In: 0.009+/-0.000 χ^2/NDF :878356.2/22

Left: 0.009+/-0.000 χ^2/NDF : 1923188.0/47

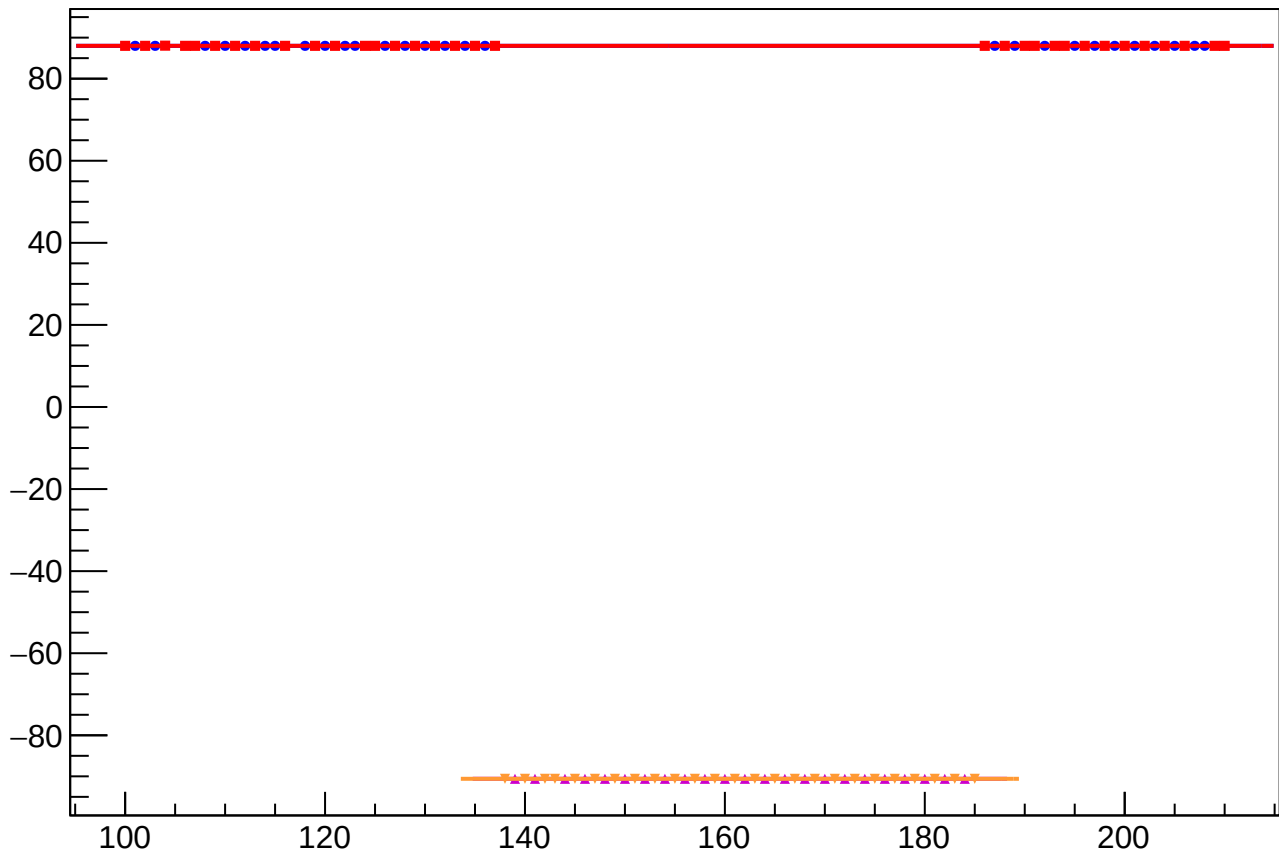
Right: 0.011+/-0.000 χ^2/NDF : 4789531.8/60

In: 0.010+/-0.000 χ^2/NDF :3557026.4/50

Out: 0.010+/-0.000 χ^2/NDF :4352260.7/57

All: 0.010+/-0.000 χ^2/NDF : 7910799.4/108

epics_VWienAngles_mean vs Slug, Sign Corrected



Right In: 88.001+/-0.000 χ^2/NDF : 4263736.4/27

Left Out: -90.599+/-0.000 χ^2/NDF : 5785821.4/24

Right Out: 88.002+/-0.000 χ^2/NDF : 80929263638776774863165063168.0/32

Left In: -90.599+/-0.000 χ^2/NDF : 7134230.8/22

Left: -90.599+/-0.000 χ^2/NDF : 11903242.1/47

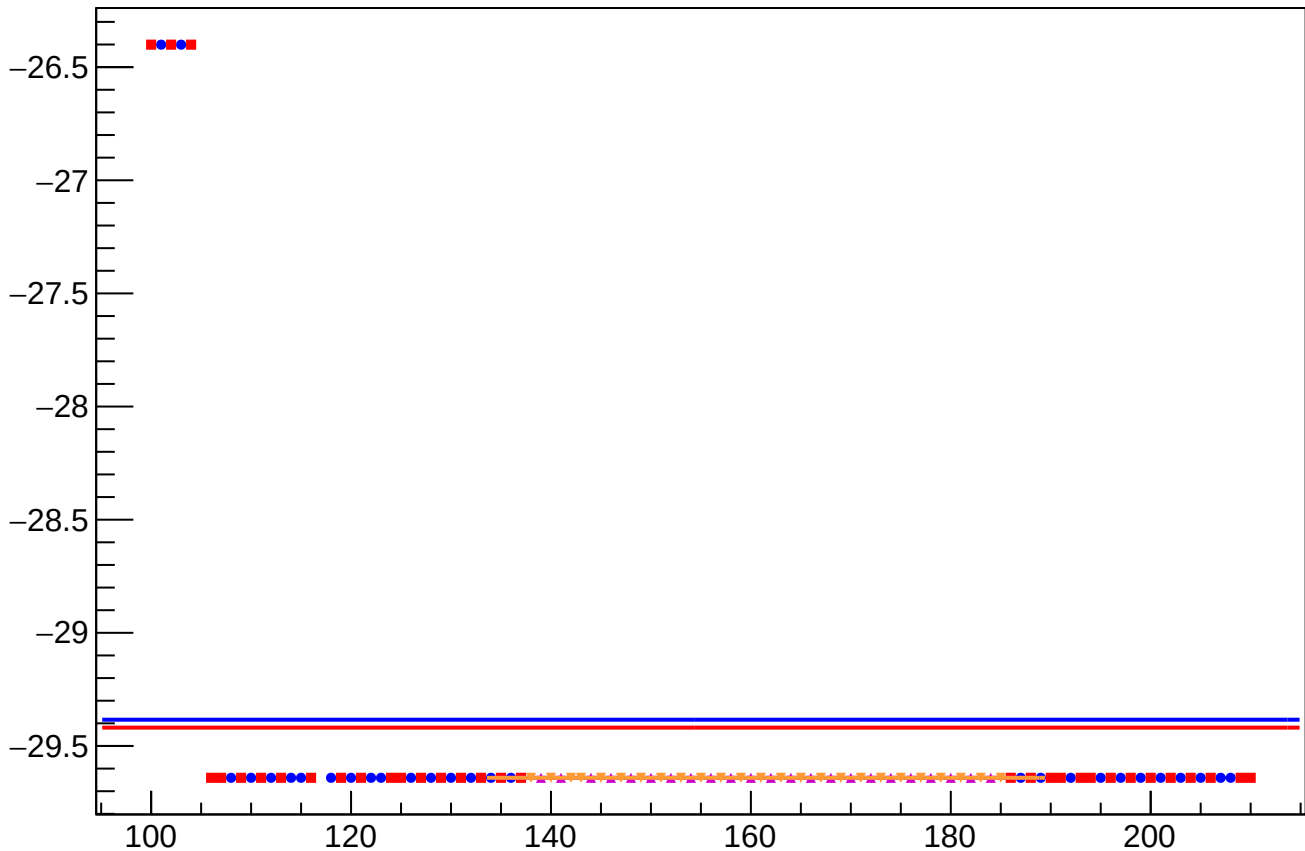
Right: 88.001+/-0.000 χ^2/NDF : 8210333796255951

In: -9.645+/-0.000 χ^2/NDF : 259674058271658751

Out: -6.508+/-0.000 χ^2/NDF : 28610866499977506

All: -8.005+/-0.000 χ^2/NDF : 5459517472055

epics_HWienAngles_mean vs Slug, Sign Corrected



Right In: -29.384+/-0.000

χ^2/NDF : 1140551197313627463837735861616640.0/27

Left Out: -29.641+/-0.000

χ^2/NDF : 530354.3/24

Right Out: -29.419+/-0.000

χ^2/NDF : 1134384900530959858814150844088320.0/32

Left In: -29.641+/-0.000

χ^2/NDF : 382603.8/22

Left: -29.641+/-0.000 χ^2/NDF : 741150.6/47

Right: -29.403+/-0.000

χ^2/NDF : 227590869346731

In: -29.524+/-0.000

χ^2/NDF : 11942210367123124

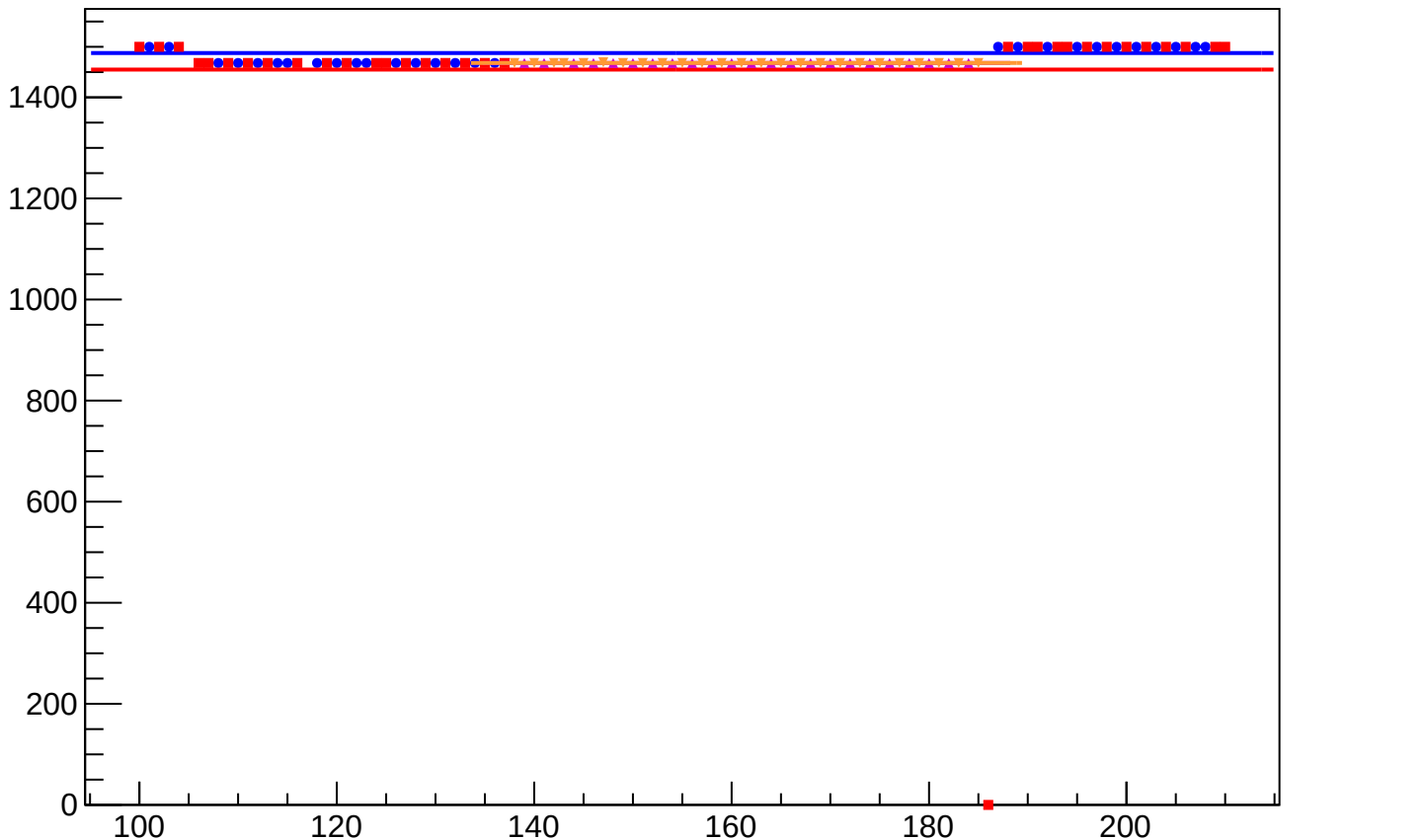
Out: -29.536+/-0.000

χ^2/NDF : 1178483903999973

All: -29.531+/-0.000

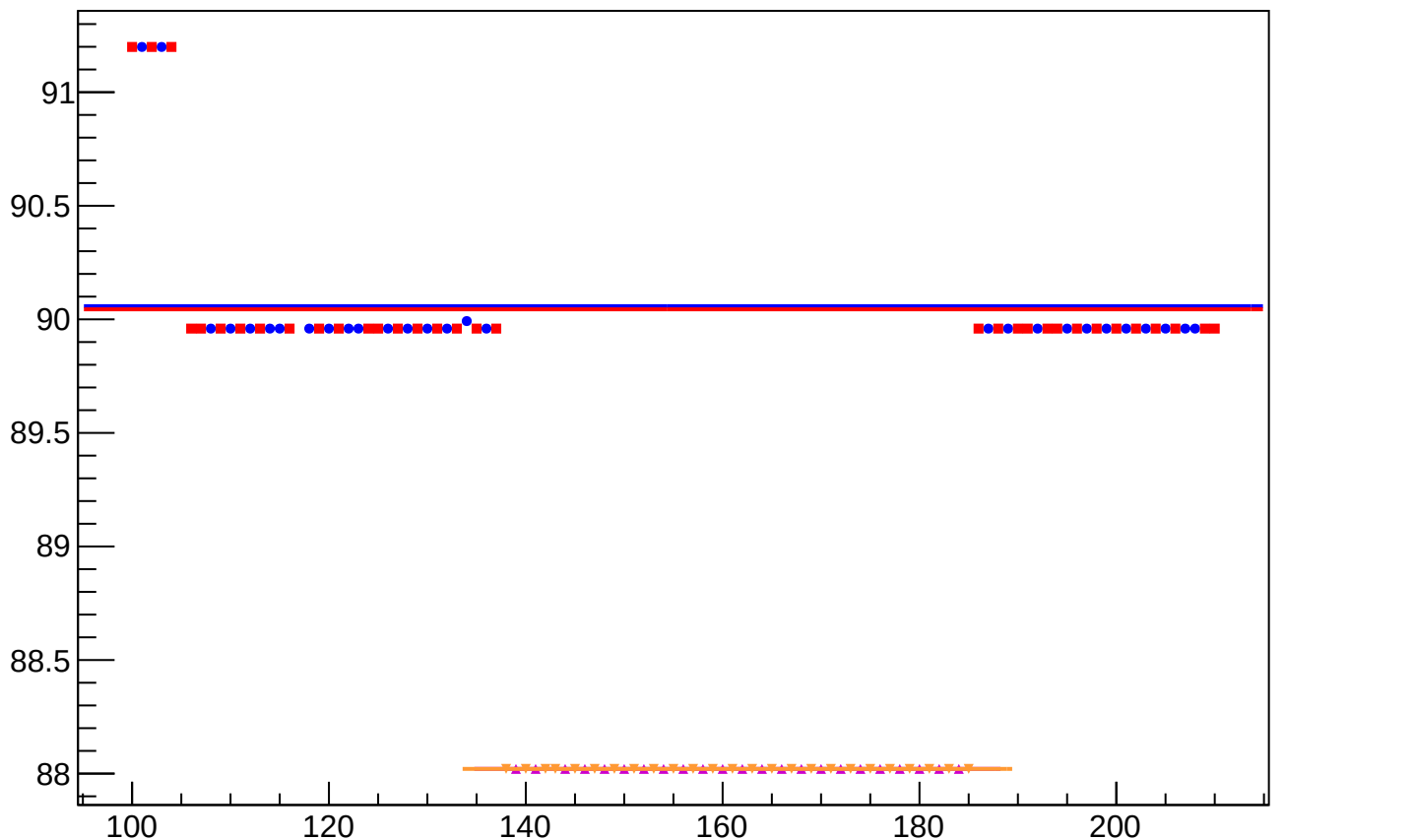
χ^2/NDF : 237295160470

epics_psub_pl_pos_mean vs Slug, Sign Corrected



Right In: 1487.679+/-0.000 χ^2/NDF : 361452879704035848600871601530994688.0/27
 Left Out: 1468.048+/-0.000 χ^2/NDF : 127949199501977668488138456039424.0/24
 Right Out: 1454.962+/-0.000 χ^2/NDF : 82680053641095878558407747190036365312.0/32
 Left In: 1467.994+/-0.000 χ^2/NDF : 144497772795444989723550941184.0/22
 All: 1469.058+/-0.000 χ^2/NDF : 8389867556

epics_Phi_FGs_mean vs Slug, Sign Corrected



Right In: 90.058 $\pm$ 0.000

χ^2 /NDF: 166944542206349386203750406815744.0/27

Left Out: 88.021 $\pm$ 0.000

χ^2 /NDF: 5679798.5/24

Right Out: 90.044 $\pm$ 0.000

χ^2 /NDF: 166155142418922836166826233167872.0/32

Left In: 88.021 $\pm$ 0.000

χ^2 /NDF: 6257169.0/22

Left: 88.021 $\pm$ 0.000 χ^2 /NDF: 13134723.4/47

Right: 90.051 $\pm$ 0.000

χ^2 /NDF: 3332522205380595

In: 88.944 $\pm$ 0.000

χ^2 /NDF: 354593683408562436

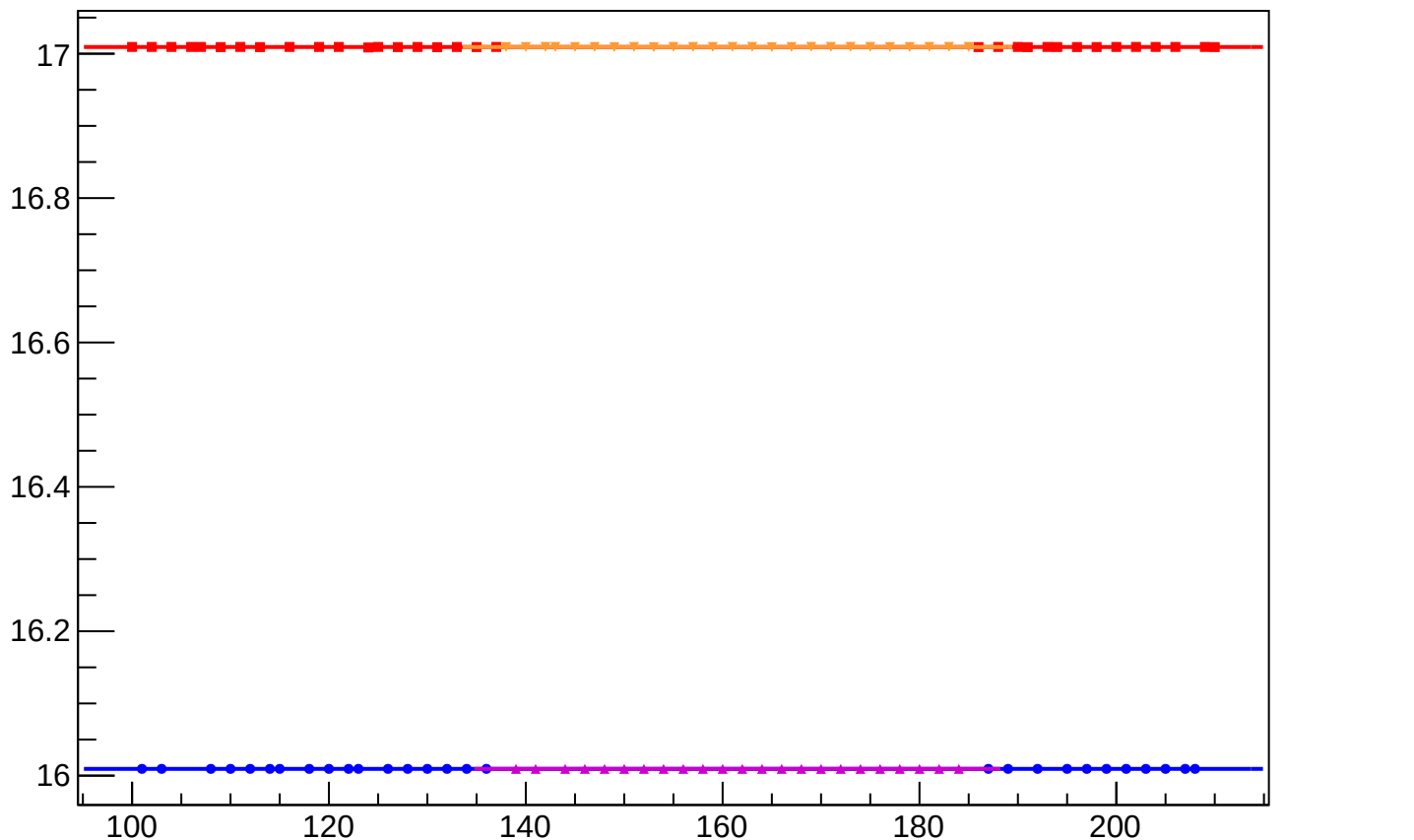
Out: 88.973 $\pm$ 0.000

χ^2 /NDF: 38385496453419871

All: 88.959 $\pm$ 0.000

χ^2 /NDF: 7385955616234

epics_IGL1I00DI24_24Ms_mean vs Slug, Sign Corrected



Left: 16.524 +/- 0.000 χ^2/NDF : 85855870772921272

Right: 16.537 +/- 0.000 χ^2/NDF : 7687656403772697

In: 16.009 +/- 0.000 χ^2/NDF : 24183895656287584

Out: 17.009 +/- 0.000 χ^2/NDF : 47197702350793816

All: 16.530 +/- 0.000 χ^2/NDF : 1627594770265

Right In: 16.009 +/- 0.000

χ^2/NDF : 113860715026345430614016.0/27

Left Out: 17.009 +/- 0.000

χ^2/NDF : 26194929080144976634970112.0/24

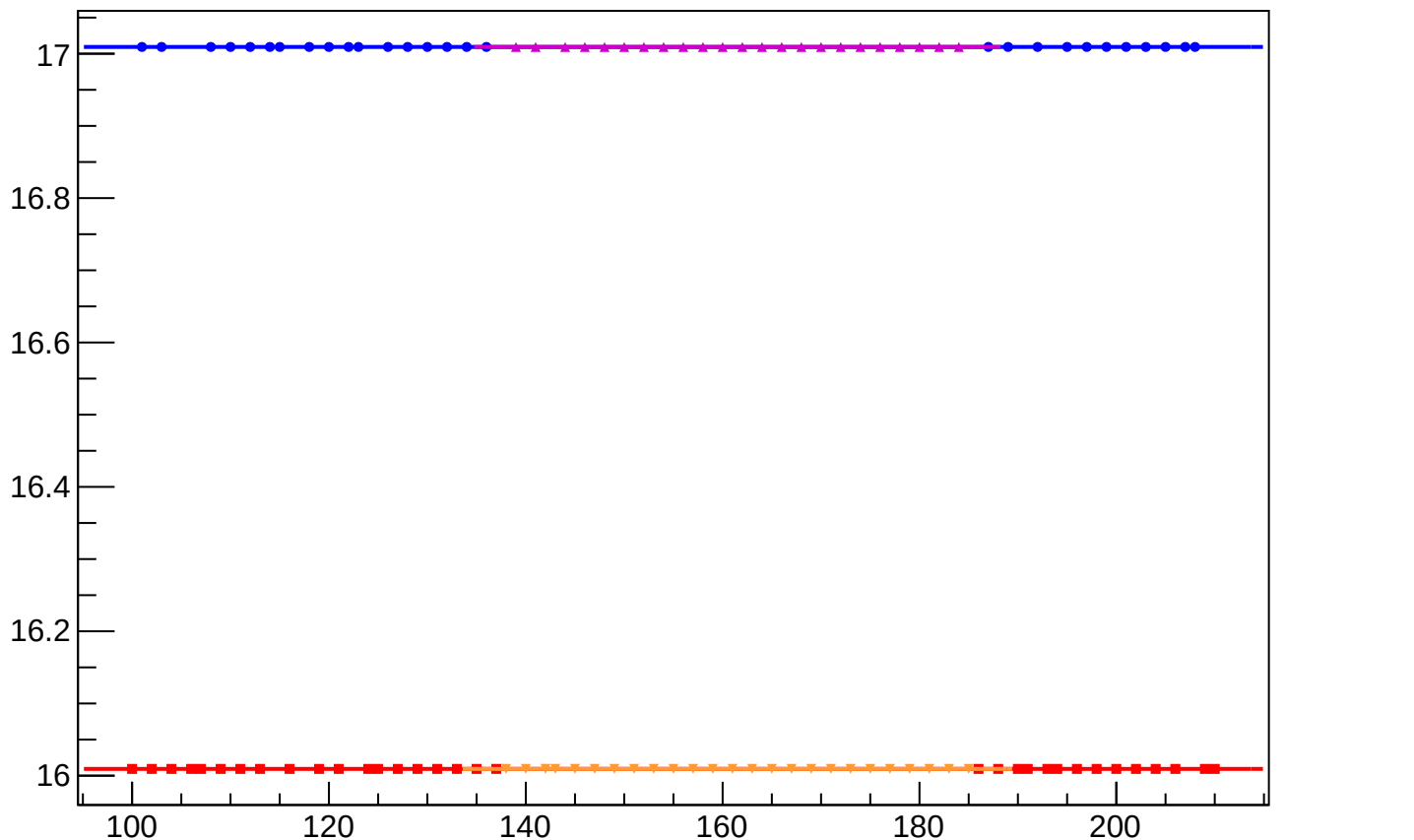
Right Out: 17.009 +/- 0.000

χ^2/NDF : 20096998506532480110034944.0/32

Left In: 16.009 +/- 0.000

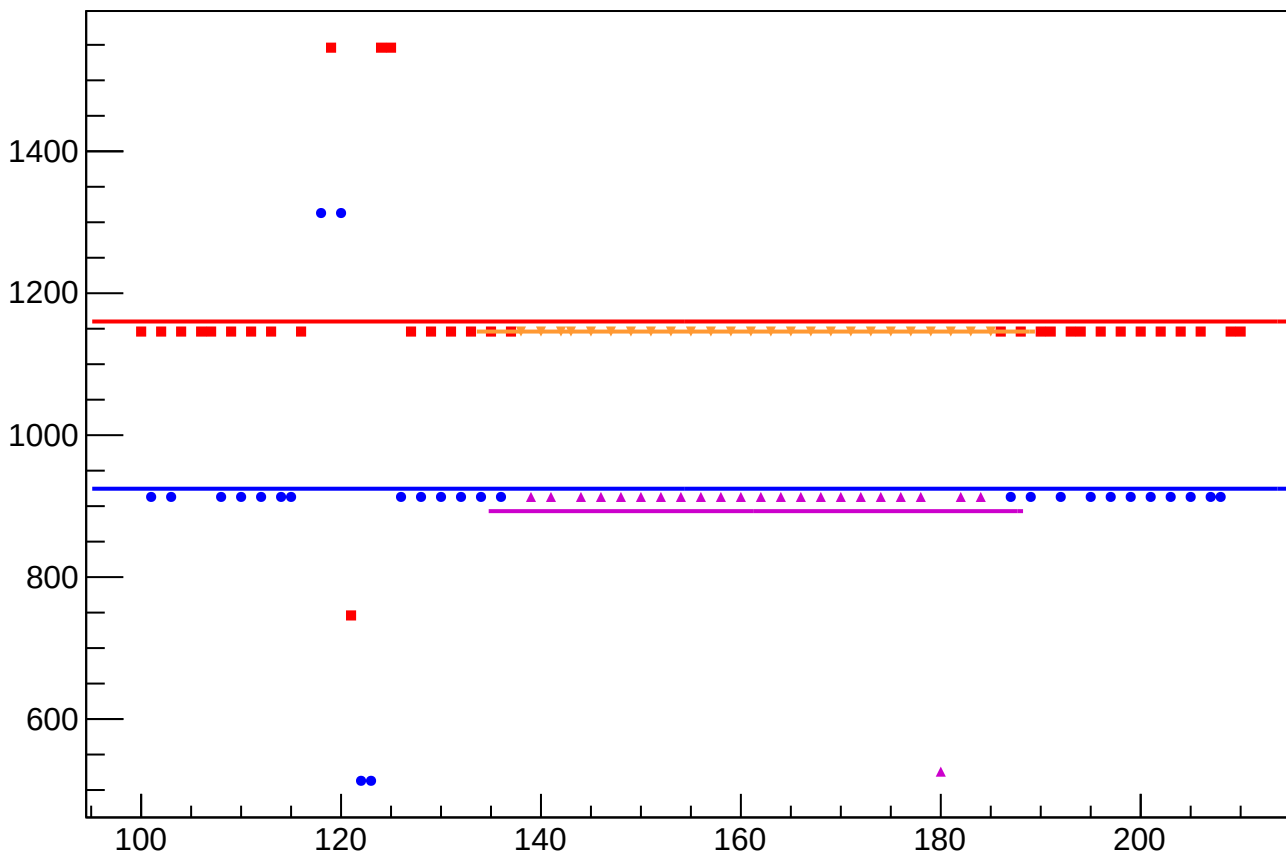
χ^2/NDF : 127920993667935400624128.0/22

epics_IGL1I00OD16_16s_mean vs Slug, Sign Corrected



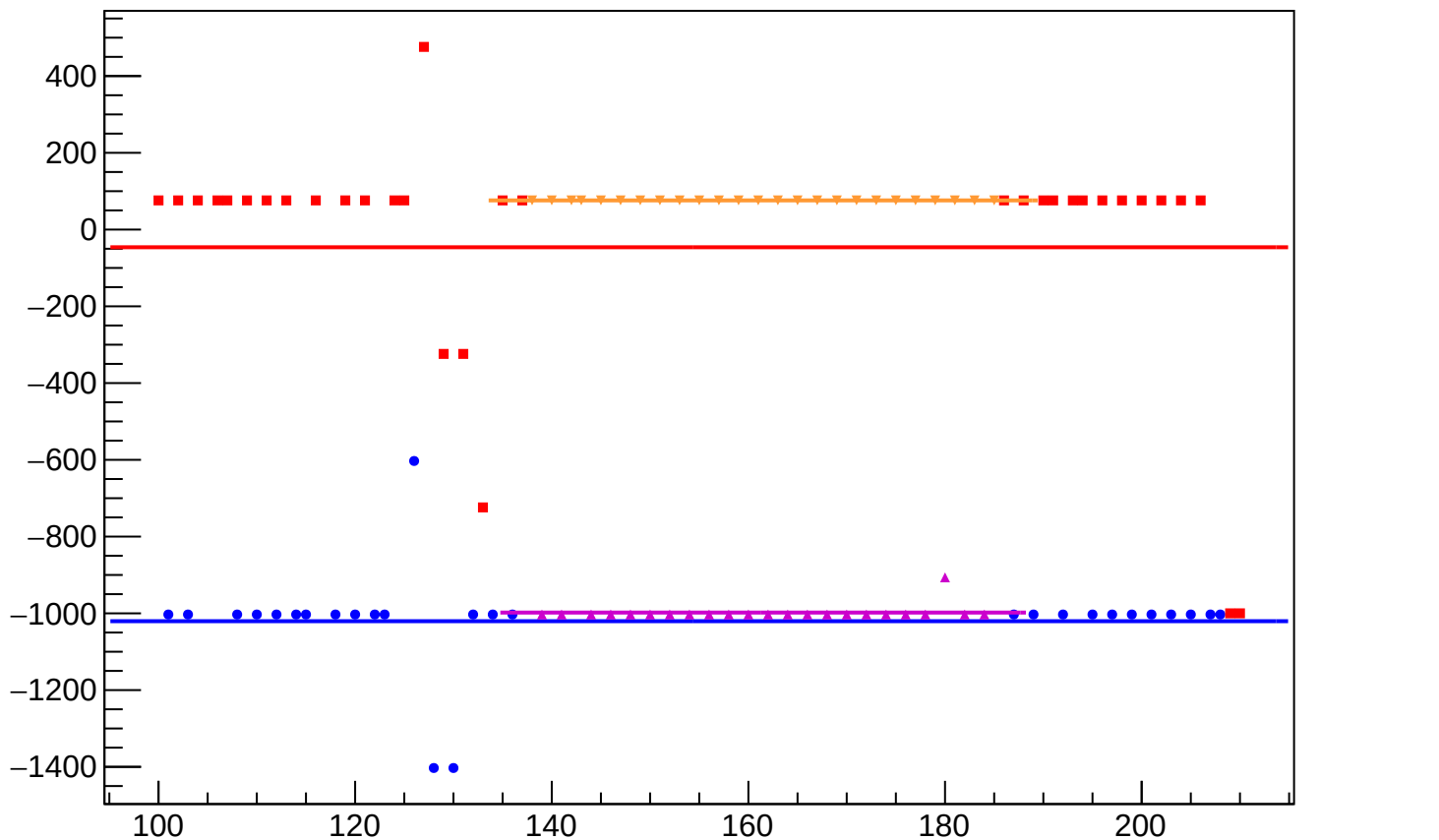
Right In: 17.009 $\pm$ 0.000	χ^2 /NDF: 113860715070937223921664.0/27	Left: 16.491 $\pm$ 0.000	χ^2 /NDF: 90683349233974450
Left Out: 16.009 $\pm$ 0.000	χ^2 /NDF: 61253.5/24	Right: 16.473 $\pm$ 0.000	χ^2 /NDF: 7820049126770418
Right Out: 16.009 $\pm$ 0.000	χ^2 /NDF: 298706.9/32	In: 17.009 $\pm$ 0.000	χ^2 /NDF: 228949953529118241
Left In: 17.009 $\pm$ 0.000	χ^2 /NDF: 114986101427233622065152.0/22	Out: 16.009 $\pm$ 0.000	χ^2 /NDF: 784657.9/57
		All: 16.483 $\pm$ 0.000	χ^2 /NDF: 1689435943499

epics_RTPAPOSUCNTs_mean vs Slug, Sign Corrected



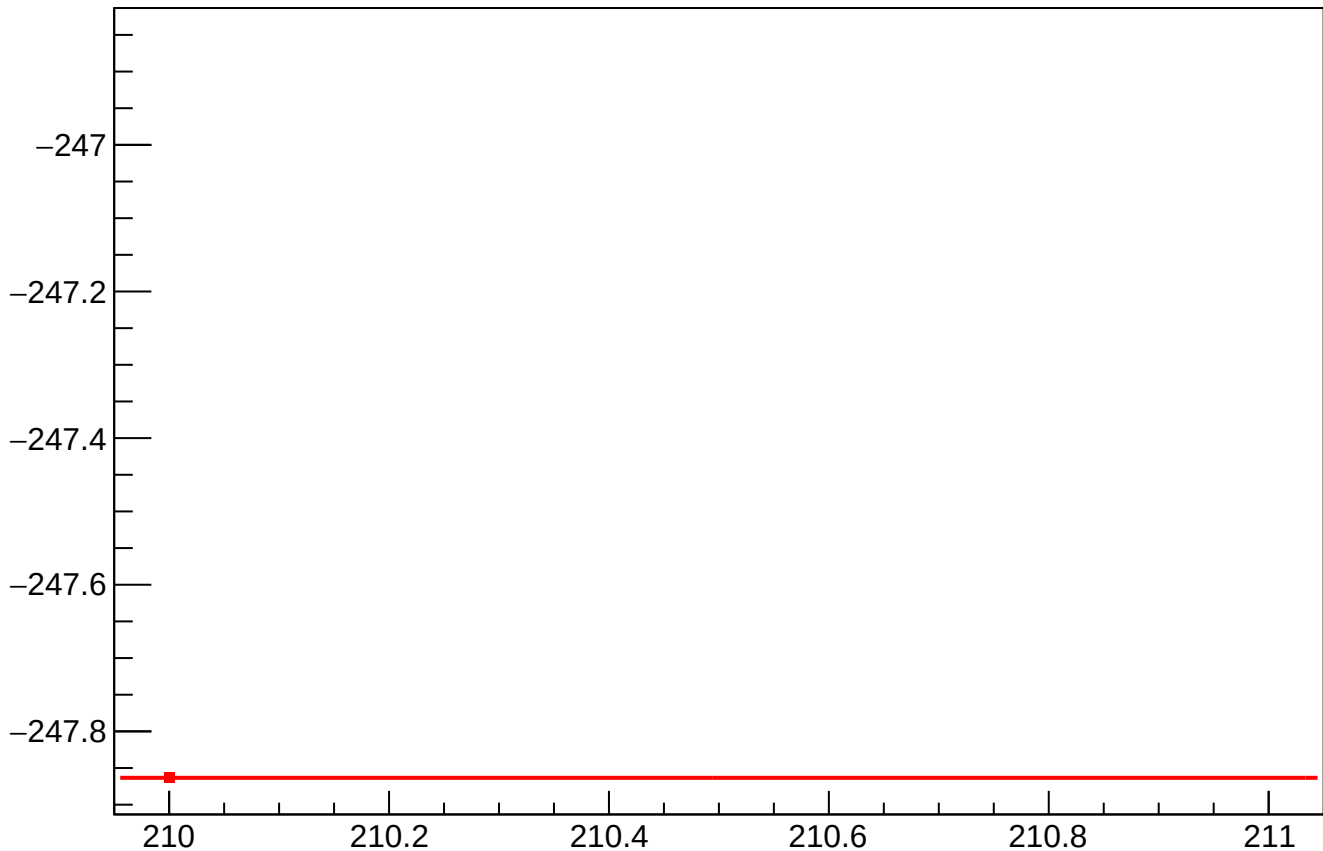
Right In: 924.546+/-0.000 χ^2/NDF : 21082664331199014519694311233301774336.0/27
 Left Out: 1146.011+/-0.000 χ^2/NDF : 8056834670270133849999540224.0/24
 Right Out: 1160.169+/-0.000 χ^2/NDF : 21740905392925685554149615550064492544.0/32
 Left In: 892.950+/-0.000 χ^2/NDF : 13213852485930520518972295012897783808.0/22
 All: 1035.588+/-0.000 χ^2/NDF : 16047298336

epics_RTPAPOSVCNTs_mean vs Slug, Sign Corrected



Right In: -1020.450 ± 0.000 $\chi^2/\text{NDF}: 22745673140214995212111968669496508416.0/27$
 Left Out: 76.011 ± 0.000 $\chi^2/\text{NDF}: 11479003589933272170007363584.0/24$
 Right Out: -46.096 ± 0.000 $\chi^2/\text{NDF}: 191958611020214546778987585909666349056.0/32$
 Left In: -997.979 ± 0.000 $\chi^2/\text{NDF}: 825858066518991041870194619245920256.0/22$
 All: -471.337 ± 0.000 $\chi^2/\text{NDF}: 20398499038$

epics_RTPPITA1CNTs_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2 /NDF: 0.0/0

Left Out: 0.000+/-0.000 χ^2 /NDF: 0.0/0

Right Out: -247.863+/-0.000 χ^2 /NDF: 58161.1/0

Left In: 0.000+/-0.000 χ^2 /NDF: 0.0/0

Left: 0.000+/-0.000 χ^2 /NDF: 0.0/0

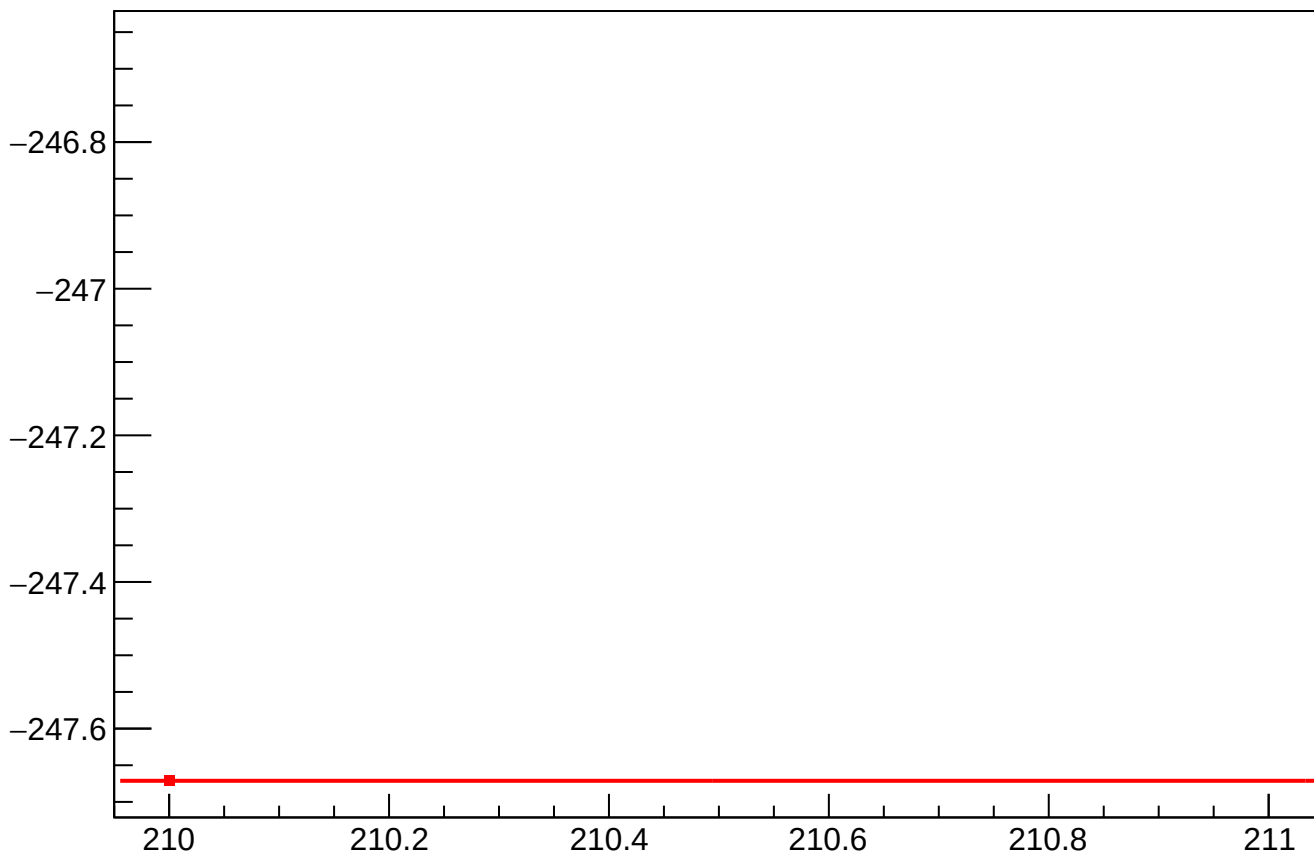
Right: -247.863+/-0.000 χ^2 /NDF: 58161.1/0

In: 0.000+/-0.000 χ^2 /NDF: 0.0/0

Out: 0.000+/-0.000 χ^2 /NDF: 0.0/0

All: -247.863+/-0.000 χ^2 /NDF: 58161.1/0

epics_RTPPITA2CNTs_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right Out: -247.671+/-0.000 χ^2/NDF : 58161.1/0

Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Left: 0.000+/-0.000 χ^2/NDF : 0.0/0

Right: -247.671+/-0.000 χ^2/NDF : 58161.1/0

In: 0.000+/-0.000 χ^2/NDF : 0.0/0

Out: 0.000+/-0.000 χ^2/NDF : 0.0/0

All: -247.671+/-0.000 χ^2/NDF : 58161.1/0