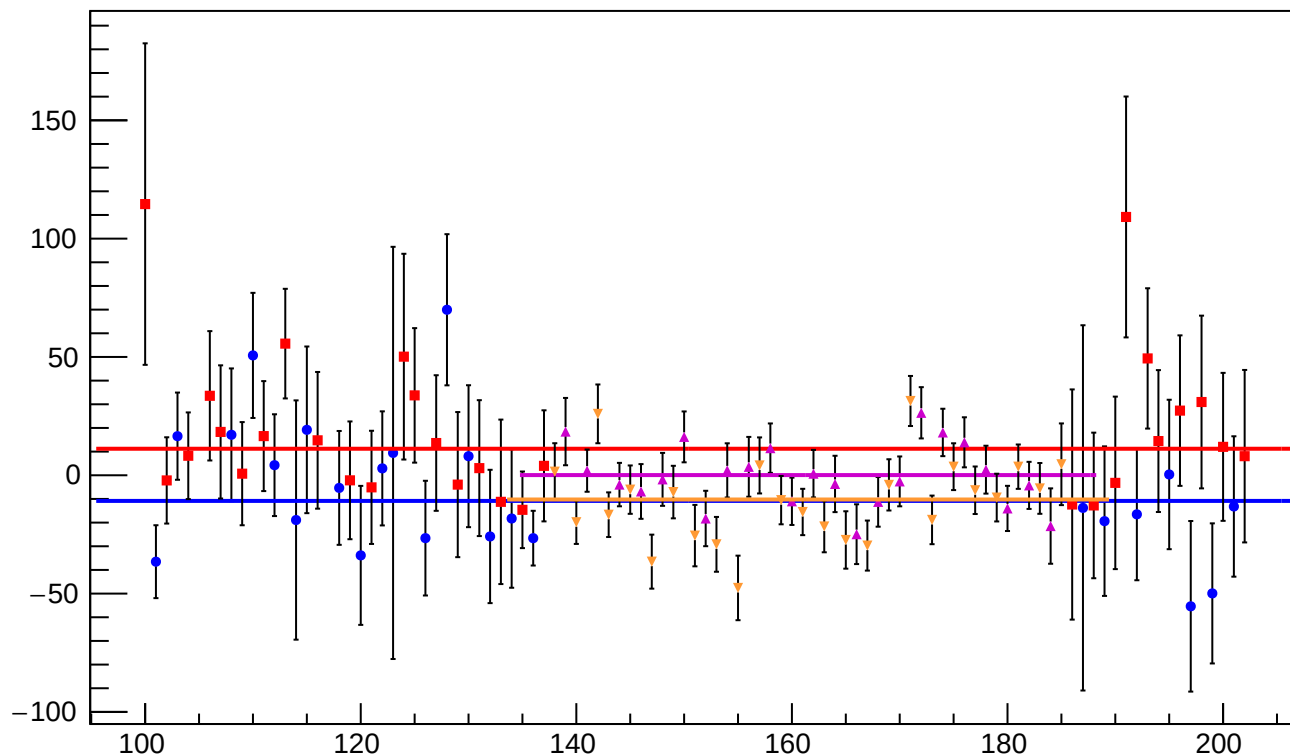


diff_bpm4aX_mean vs Slug, Sign Corrected



Right In: -10.835 ± 5.118

$\chi^2/\text{NDF}: 26.6/23$

Left Out: -10.238 ± 2.170

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

Right Out: 11.211 ± 5.044

$\chi^2/\text{NDF}: 20.1/28$

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: 0.348 ± 3.593

$\chi^2/\text{NDF}: 56.1/52$

In: -1.688 ± 2.060

$\chi^2/\text{NDF}: 60.3/46$

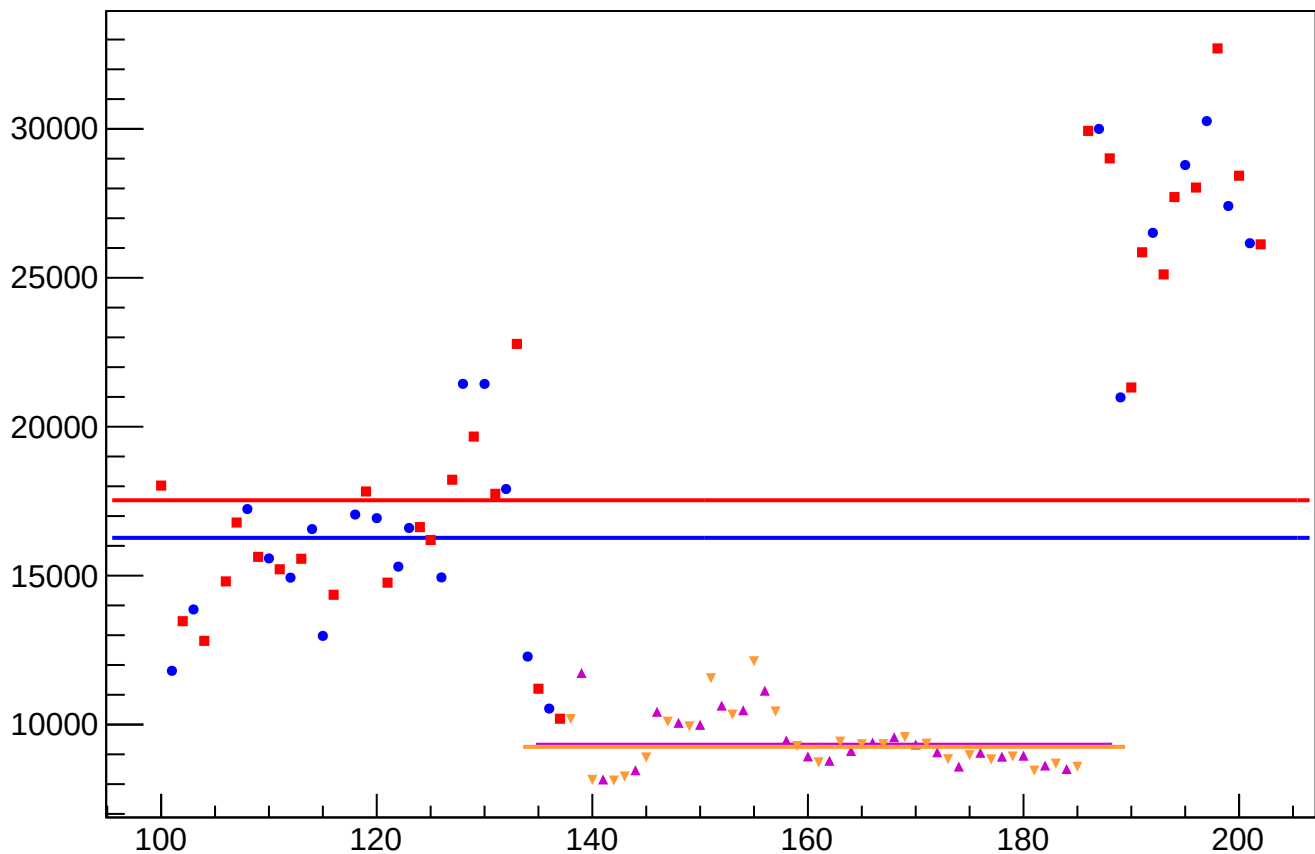
Out: -6.888 ± 1.994

$\chi^2/\text{NDF}: 93.5/53$

All: -4.374 ± 1.433

$\chi^2/\text{NDF}: 157.1/100$

diff_bpm4aX_rms vs Slug, Sign Corrected



Right In: 16268.907 ± 3.619 $\chi^2/\text{NDF}: 2390558.0/23$

Left Out: 9251.811 ± 1.535 $\chi^2/\text{NDF}: 332323.3/24$

Right Out: 17530.756 ± 3.567 $\chi^2/\text{NDF}: 2679699.0/28$

Left In: 9323.983 ± 1.591 $\chi^2/\text{NDF}: 275717.0/22$

Left: 9286.587 ± 1.105 $\chi^2/\text{NDF}: 609106.1/47$

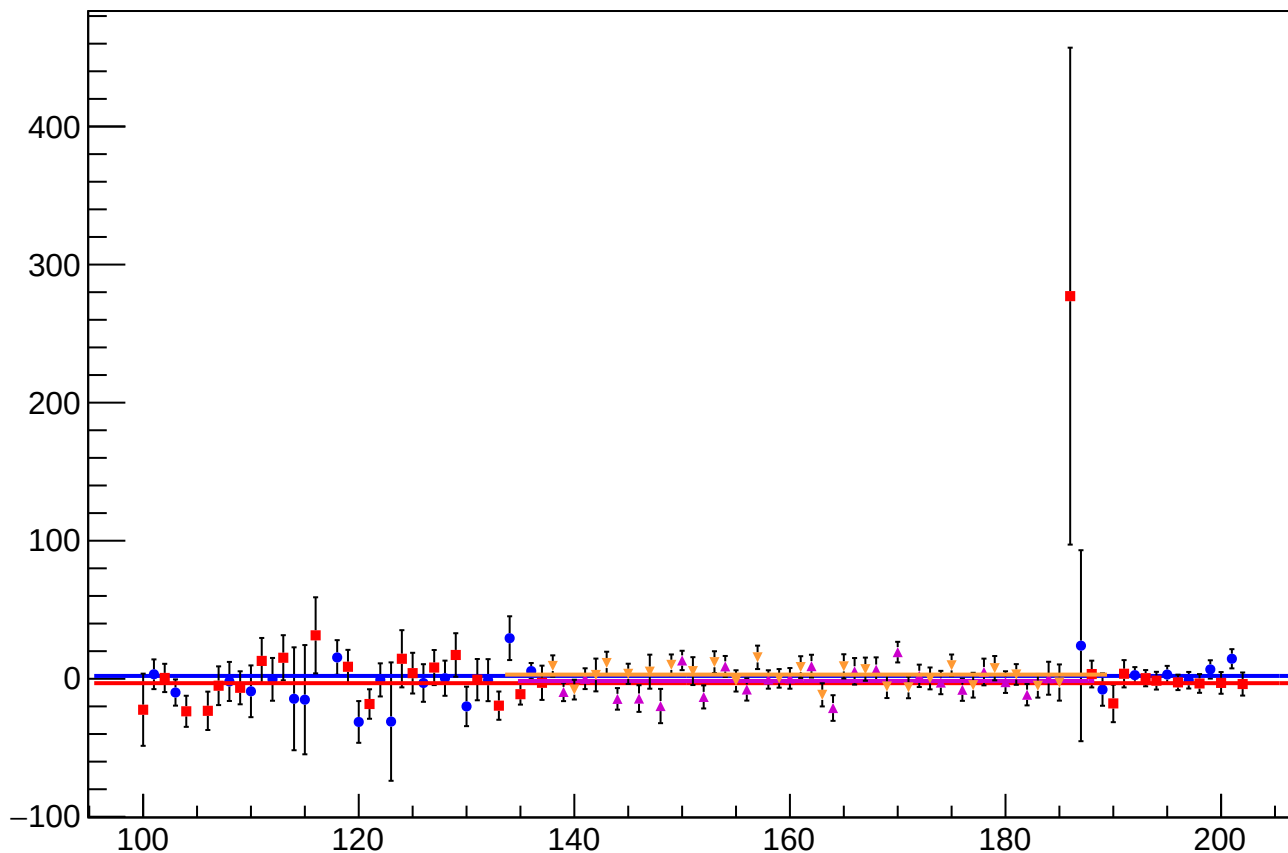
Right: 16908.990 ± 2.540 $\chi^2/\text{NDF}: 5131925.1/52$

In: 10449.256 ± 1.457 $\chi^2/\text{NDF}: 5752174.4/46$

Out: 10544.902 ± 1.410 $\chi^2/\text{NDF}: 7557928.0/53$

All: 10498.650 ± 1.013 $\chi^2/\text{NDF}: 13312328.6$

diff_bpm4aY_mean vs Slug, Sign Corrected



Right In: 2.068 ± 2.046 χ^2/NDF : 19.8/23

Left Out: 3.027 ± 1.661 χ^2/NDF : 18.6/24

Right Out: -3.175 ± 1.892 χ^2/NDF : 25.0/28

Left In: -1.588 ± 1.703 χ^2/NDF : 35.5/22

Left: 0.777 ± 1.189 χ^2/NDF : 57.8/47

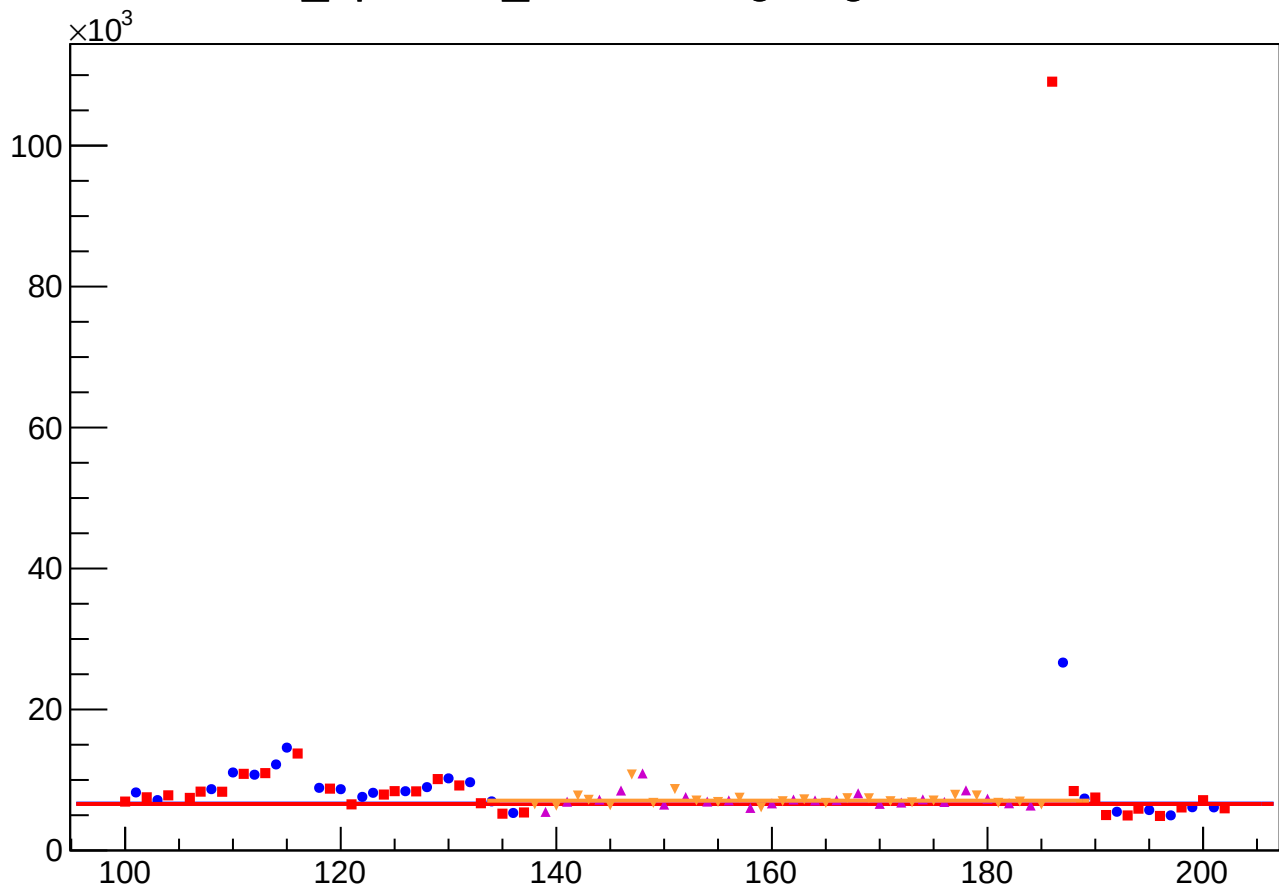
Right: -0.758 ± 1.389 χ^2/NDF : 48.4/52

In: -0.092 ± 1.309 χ^2/NDF : 57.2/46

Out: 0.328 ± 1.248 χ^2/NDF : 49.6/53

All: 0.128 ± 0.903 χ^2/NDF : 106.9/100

diff_bpm4aY_rms vs Slug, Sign Corrected



Right In: 6640.484 $\pm$ 1.446 χ^2/NDF : 1467395.4/23

Left Out: 7064.457 $\pm$ 1.174 χ^2/NDF : 386814.9/24

Right Out: 6596.456 $\pm$ 1.338 χ^2/NDF : 2092859.6/28

Left In: 7014.572 $\pm$ 1.204 χ^2/NDF : 525313.7/22

Left: 7040.137 $\pm$ 0.841 χ^2/NDF : 913008.5/47

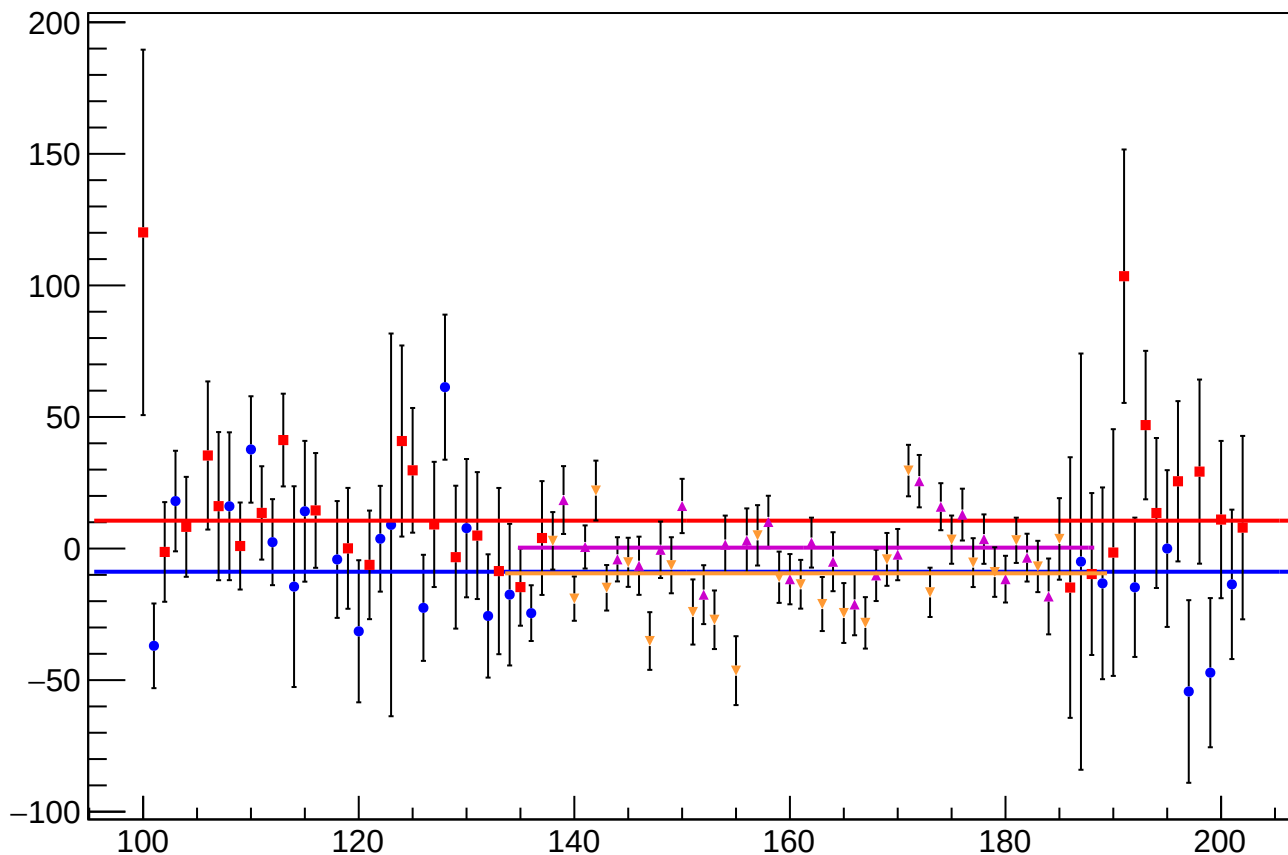
Right: 6616.753 $\pm$ 0.982 χ^2/NDF : 3560754.4/52

In: 6861.482 $\pm$ 0.925 χ^2/NDF : 2032221.6/46

Out: 6860.797 $\pm$ 0.882 χ^2/NDF : 2548804.3/53

All: 6861.123 $\pm$ 0.639 χ^2/NDF : 4581026.2/100

diff_bpm4eX_mean vs Slug, Sign Corrected



Right In: -8.807 ± 4.646 χ^2/NDF : 27.4/23

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

Right Out: 10.597 ± 4.539 χ^2/NDF : 19.8/28

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

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

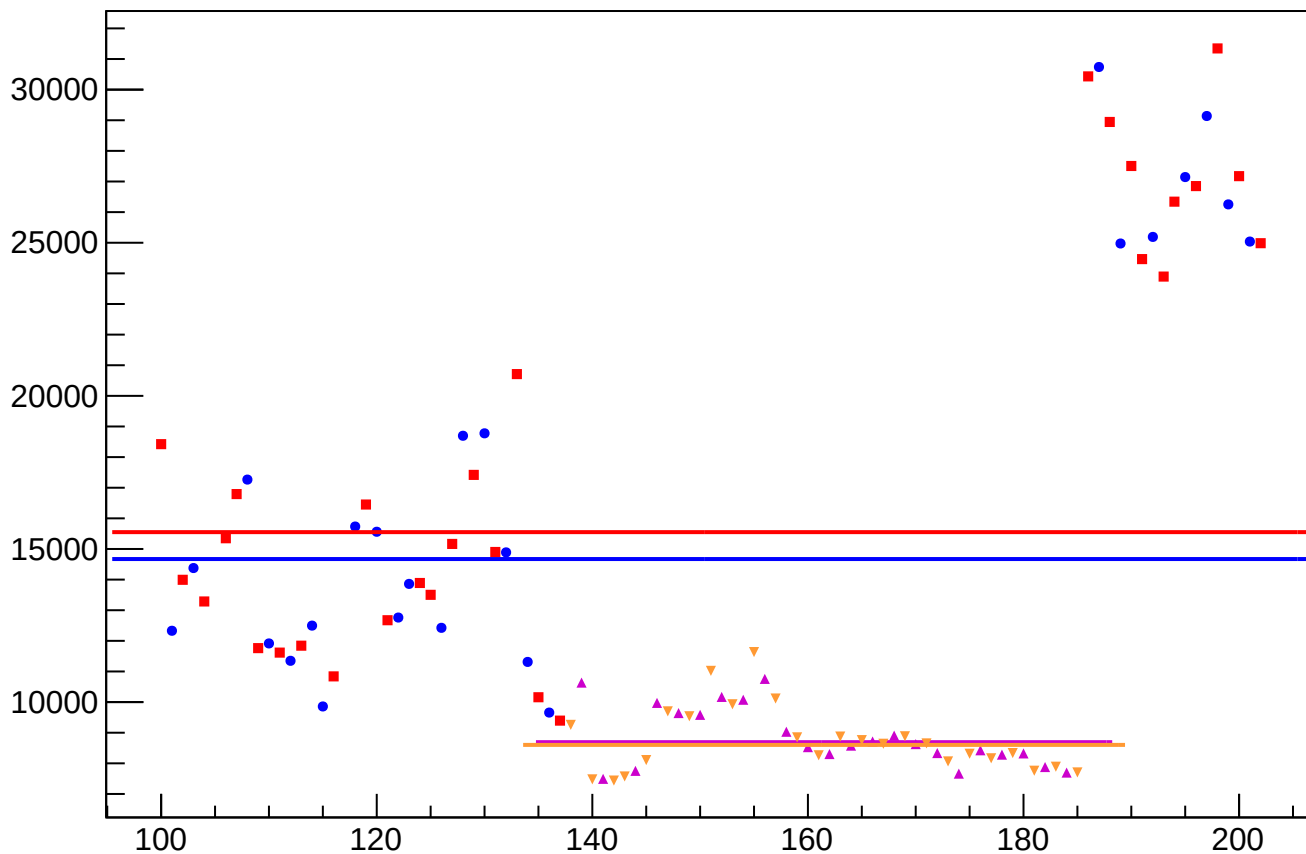
Right: 1.121 ± 3.247 χ^2/NDF : 56.1/52

In: -1.209 ± 1.914 χ^2/NDF : 60.6/46

Out: -6.101 ± 1.846 χ^2/NDF : 94.8/53

All: -3.743 ± 1.329 χ^2/NDF : 158.7/100

diff_bpm4eX_rms vs Slug, Sign Corrected



Right In: 14671.442 ± 3.285 $\chi^2/\text{NDF}: 2728769.2/23$

Left Out: 8602.220 ± 1.429 $\chi^2/\text{NDF}: 438805.2/24$

Right Out: 15549.856 ± 3.210 $\chi^2/\text{NDF}: 3344614.1/28$

Left In: 8691.203 ± 1.485 $\chi^2/\text{NDF}: 365254.6/22$

Left: 8644.996 ± 1.030 $\chi^2/\text{NDF}: 805923.5/47$

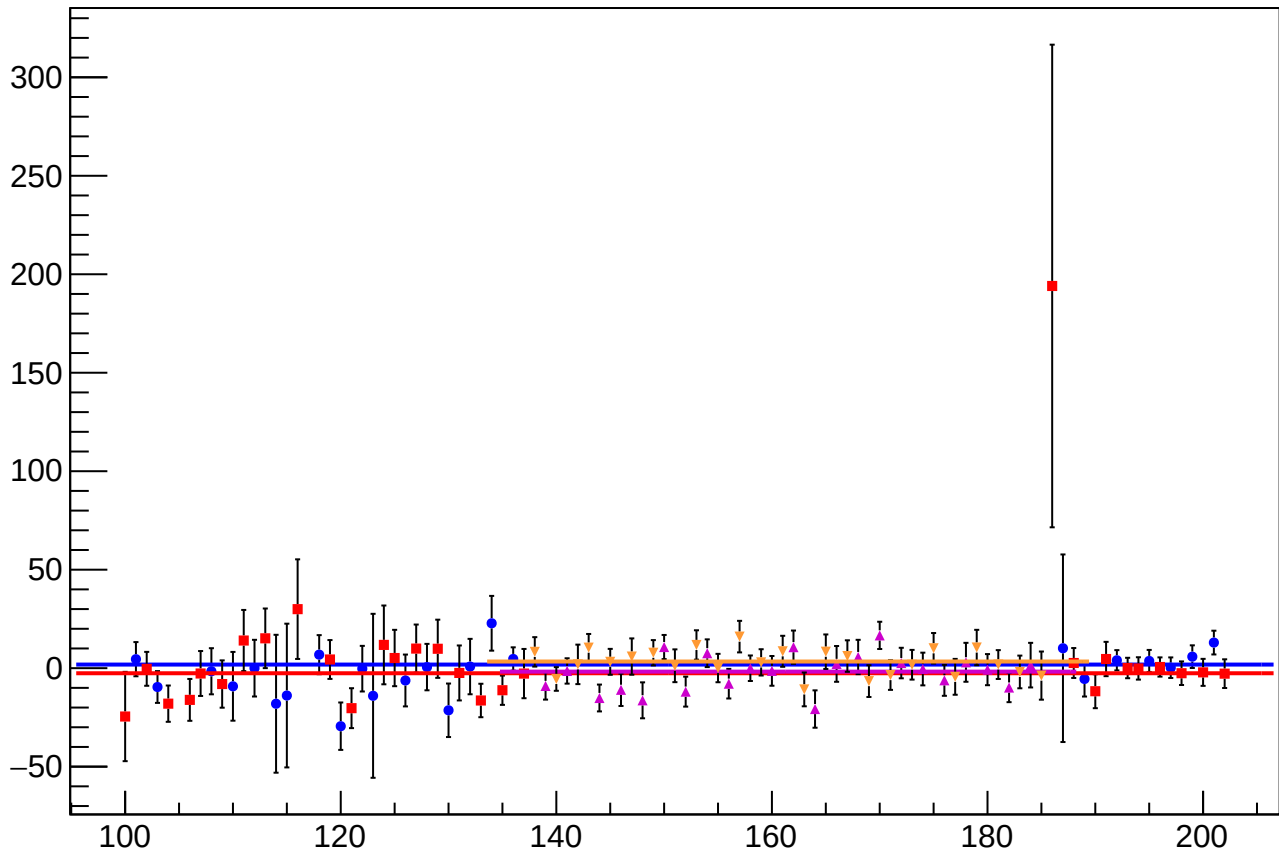
Right: 15120.863 ± 2.296 $\chi^2/\text{NDF}: 6109963.3/52$

In: 9706.163 ± 1.353 $\chi^2/\text{NDF}: 5845425.9/46$

Out: 9751.664 ± 1.306 $\chi^2/\text{NDF}: 7693852.5/53$

All: 9729.733 ± 0.940 $\chi^2/\text{NDF}: 13539863.9/100$

diff_bpm4eY_mean vs Slug, Sign Corrected



Right In: 1.828 ± 1.810 χ^2/NDF : 21.1/23

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

Right Out: -2.580 ± 1.655 χ^2/NDF : 25.7/28

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

Left: 0.899 ± 1.116 χ^2/NDF : 56.0/47

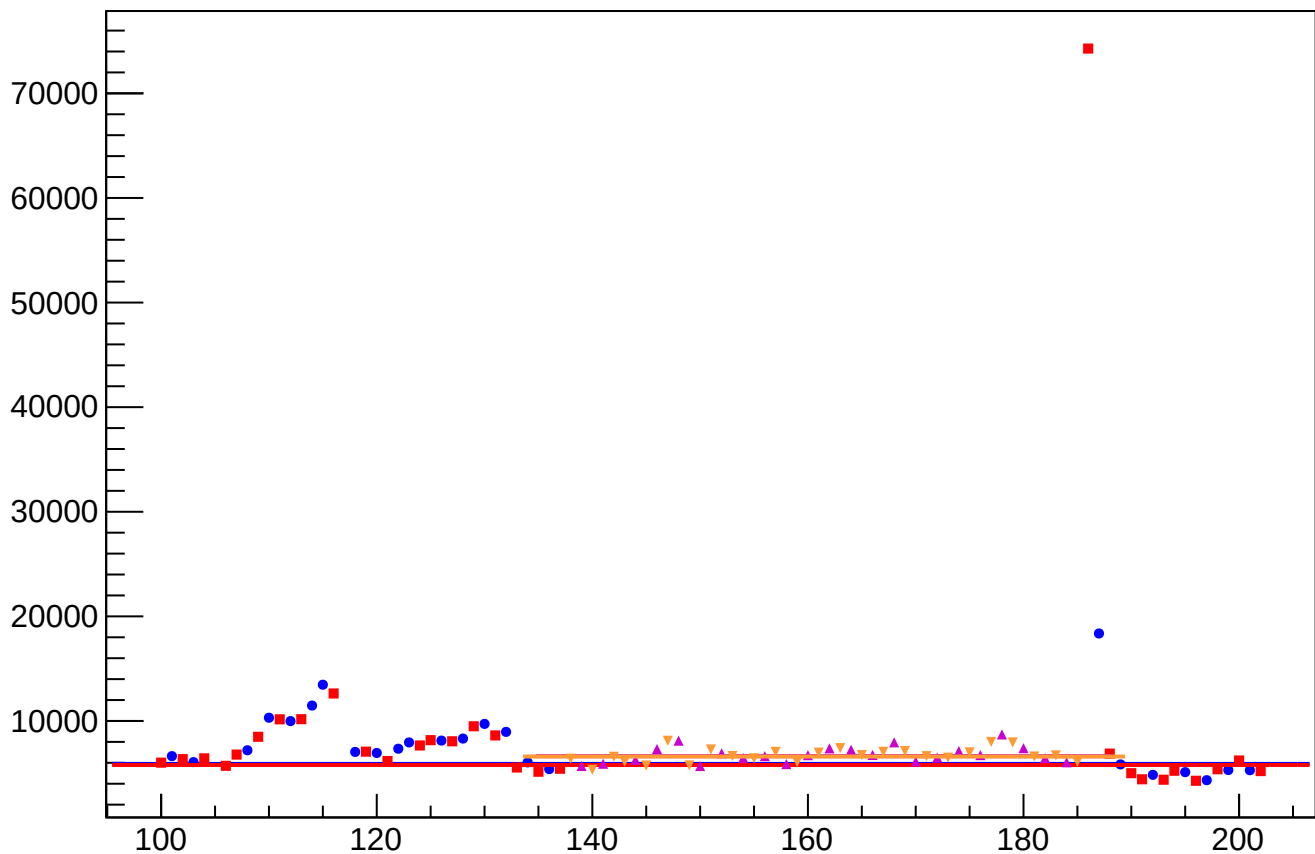
Right: -0.574 ± 1.221 χ^2/NDF : 50.0/52

In: -0.176 ± 1.202 χ^2/NDF : 56.8/46

Out: 0.588 ± 1.132 χ^2/NDF : 49.7/53

All: 0.229 ± 0.824 χ^2/NDF : 106.8/100

diff_bpm4eY_rms vs Slug, Sign Corrected



Right In: 5893.028+/-1.280

χ^2/NDF : 1431589.2/23

Left Out: 6603.953+/-1.097

χ^2/NDF : 395247.5/24

Right Out: 5793.334+/-1.170

χ^2/NDF : 2128511.2/28

Left In: 6637.155+/-1.136

χ^2/NDF : 415547.5/22

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

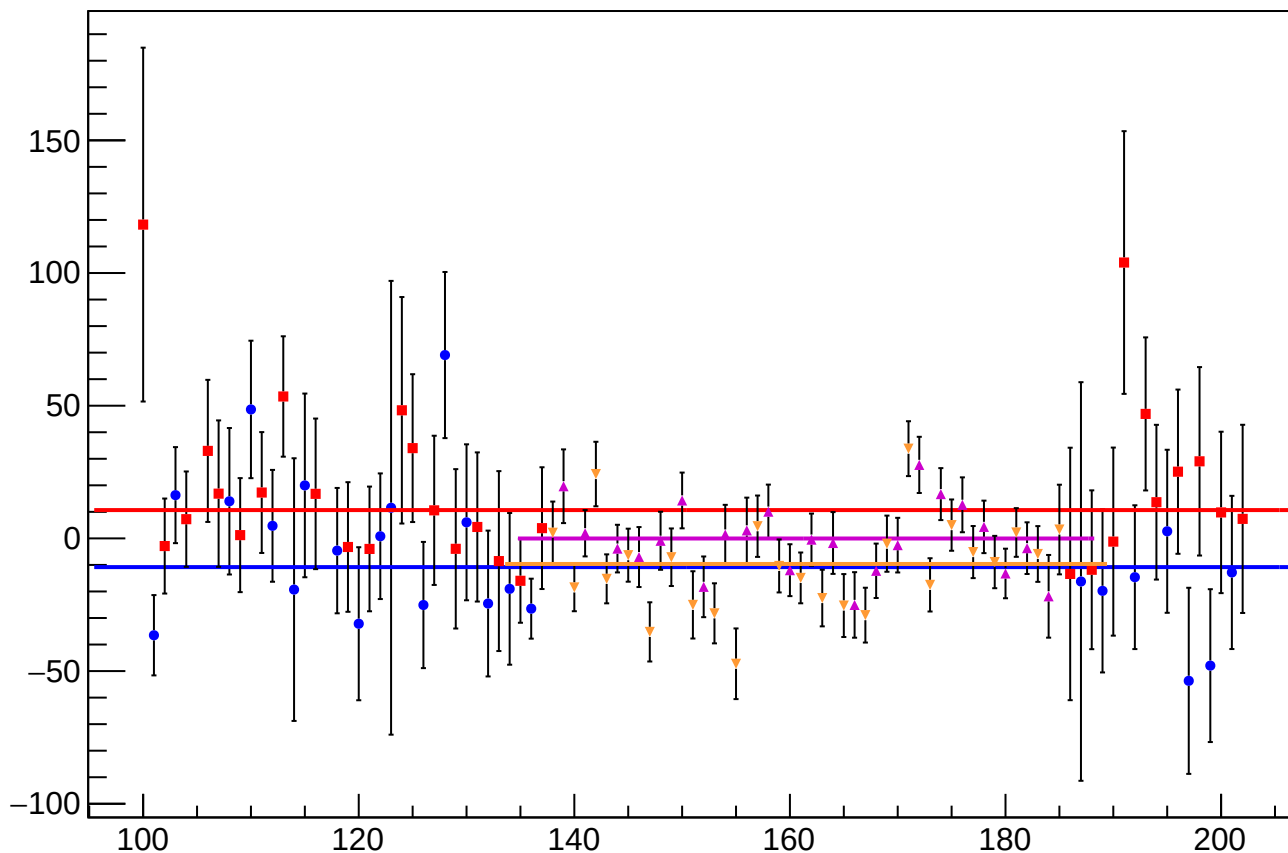
Right: 5838.716+/-0.864 χ^2/NDF : 3563405.5/52

In: 6309.164+/-0.850 χ^2/NDF : 2036157.3/46

Out: 6224.609+/-0.800 χ^2/NDF : 2779151.0/53

All: 6264.358+/-0.583 χ^2/NDF : 4820554.9/10

diff_bpm4acX_mean vs Slug, Sign Corrected



Right In: -10.819 $\pm$ 5.010 χ^2/NDF : 26.4/23

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

Right Out: 10.668 $\pm$ 4.937 χ^2/NDF : 20.1/28

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

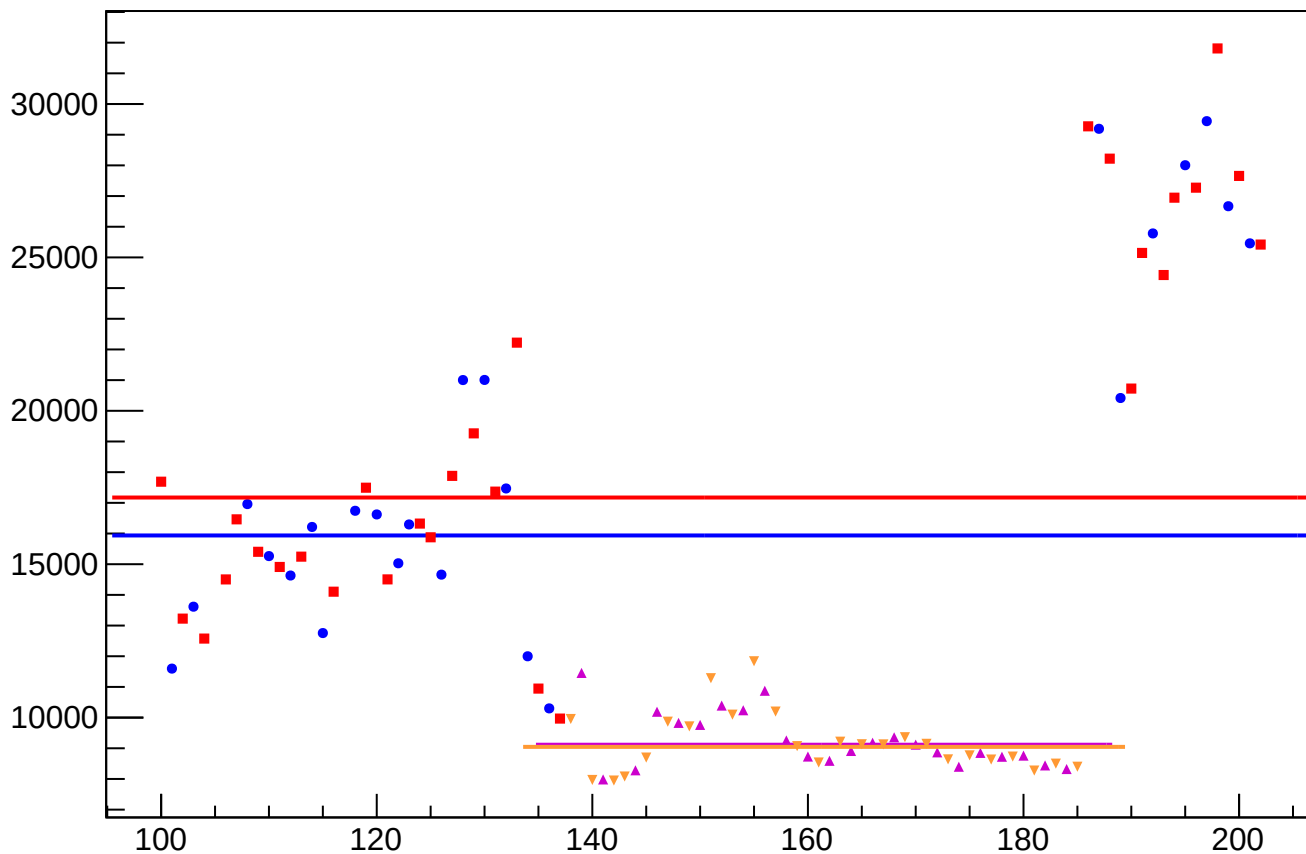
Right: 0.081 $\pm$ 3.517 χ^2/NDF : 55.9/52

In: -1.785 $\pm$ 2.014 χ^2/NDF : 61.0/46

Out: -6.474 $\pm$ 1.949 χ^2/NDF : 94.3/53

All: -4.206 $\pm$ 1.401 χ^2/NDF : 158.2/100

diff_bpm4acX_rms vs Slug, Sign Corrected



Right In: 15936.931+/-3.543 χ^2/NDF : 2361647.7/23

Left Out: 9045.871+/-1.500 χ^2/NDF : 328508.5/24

Right Out: 17173.494+/-3.491 χ^2/NDF : 2638666.5/28

Left In: 9115.817+/-1.556 χ^2/NDF : 272471.8/22

Left: 9079.576+/-1.080 χ^2/NDF : 602027.6/47

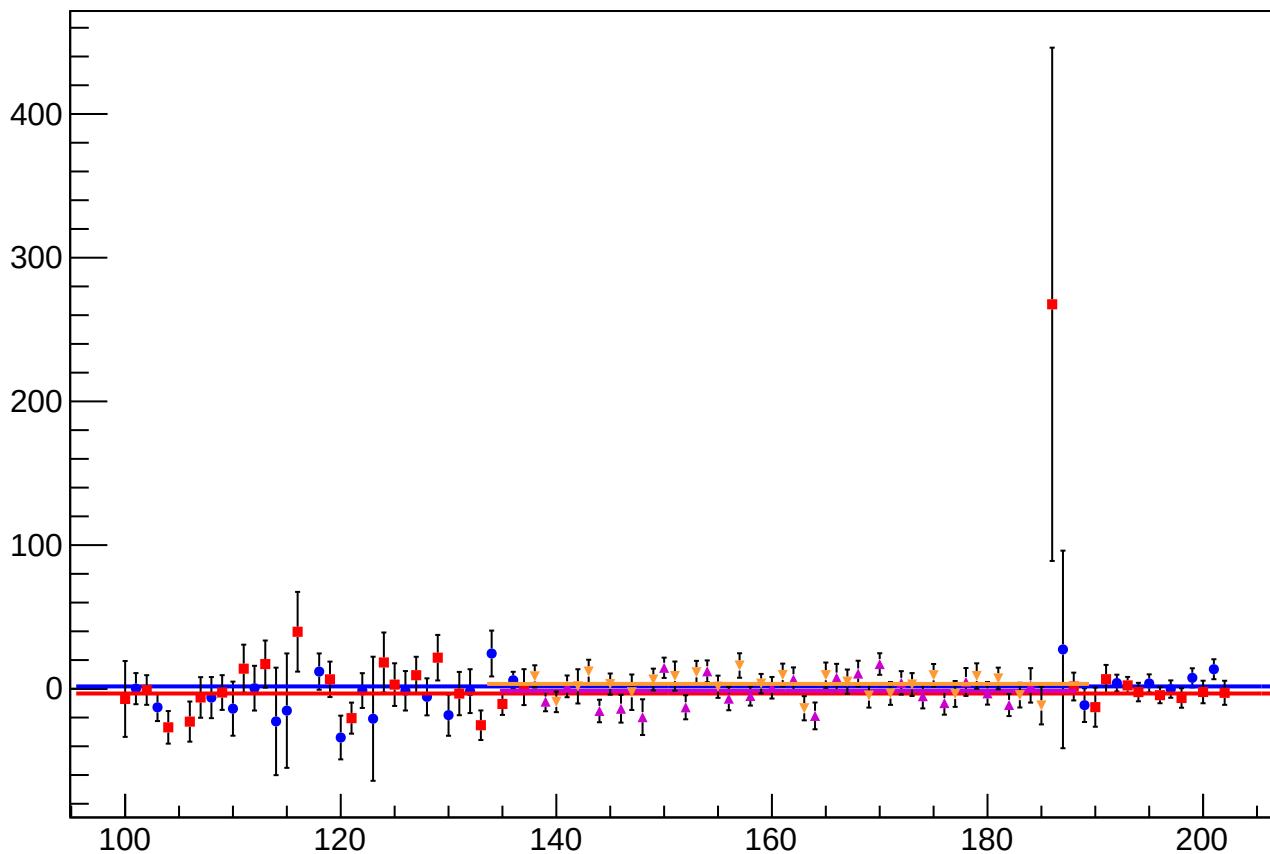
Right: 16564.253+/-2.487 χ^2/NDF : 5062123.7/52

In: 10218.596+/-1.424 χ^2/NDF : 5742057.8/46

Out: 10312.847+/-1.378 χ^2/NDF : 7542040.0/53

All: 10267.269+/-0.991 χ^2/NDF : 13286358.7/100

diff_bpm4acY_mean vs Slug, Sign Corrected



Right In: 1.662 $\pm$ 2.054 χ^2/NDF : 20.8/23

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

Right Out: -3.266 $\pm$ 1.900 χ^2/NDF : 30.2/28

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

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

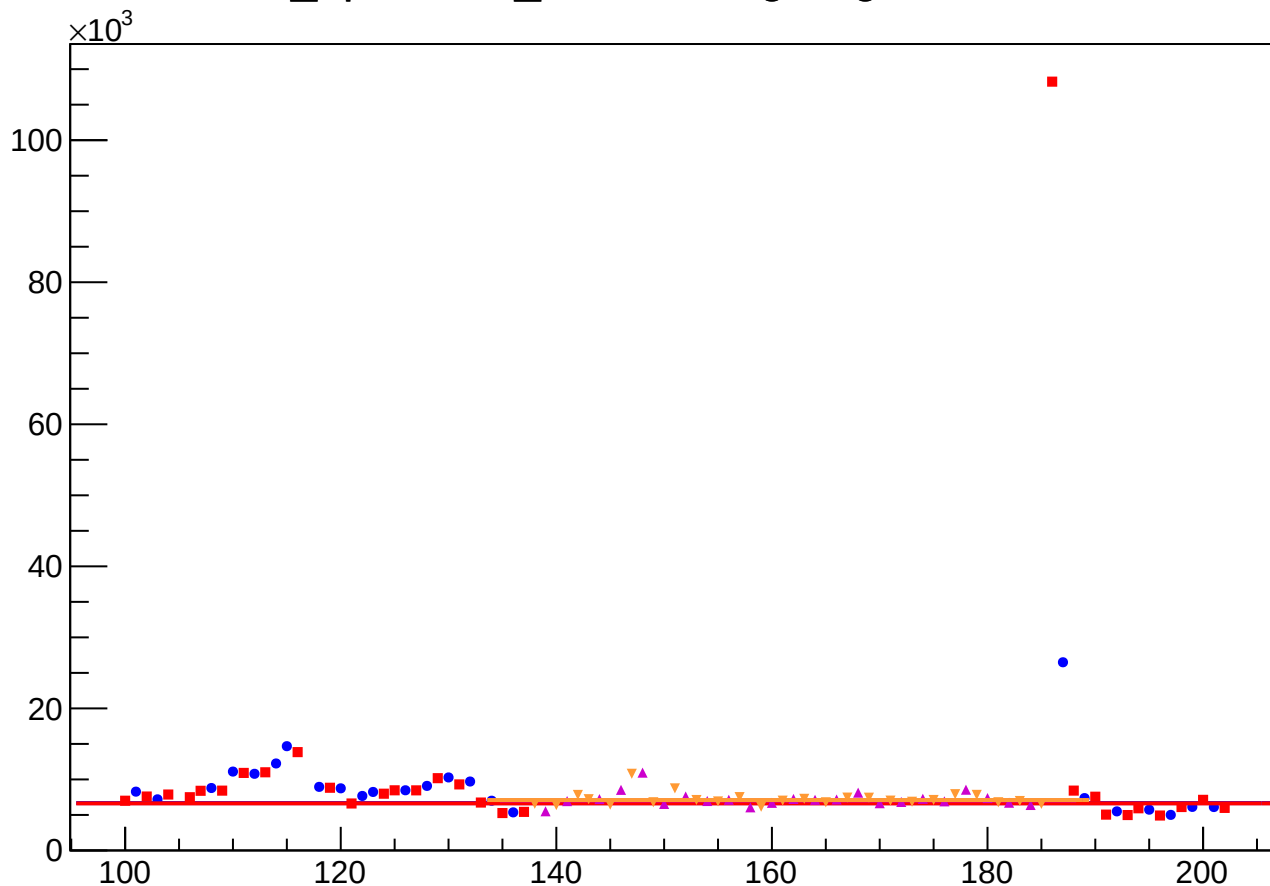
Right: -0.994 $\pm$ 1.395 χ^2/NDF : 54.1/52

In: -0.194 $\pm$ 1.314 χ^2/NDF : 58.9/46

Out: 0.492 $\pm$ 1.254 χ^2/NDF : 56.5/53

All: 0.166 $\pm$ 0.907 χ^2/NDF : 115.6/100

diff_bpm4acY_rms vs Slug, Sign Corrected



Right In: 6668.813 $\pm$ 1.453 χ^2/NDF : 1475673.1/23

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

Right Out: 6627.376 $\pm$ 1.344 χ^2/NDF : 2096877.8/28

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

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

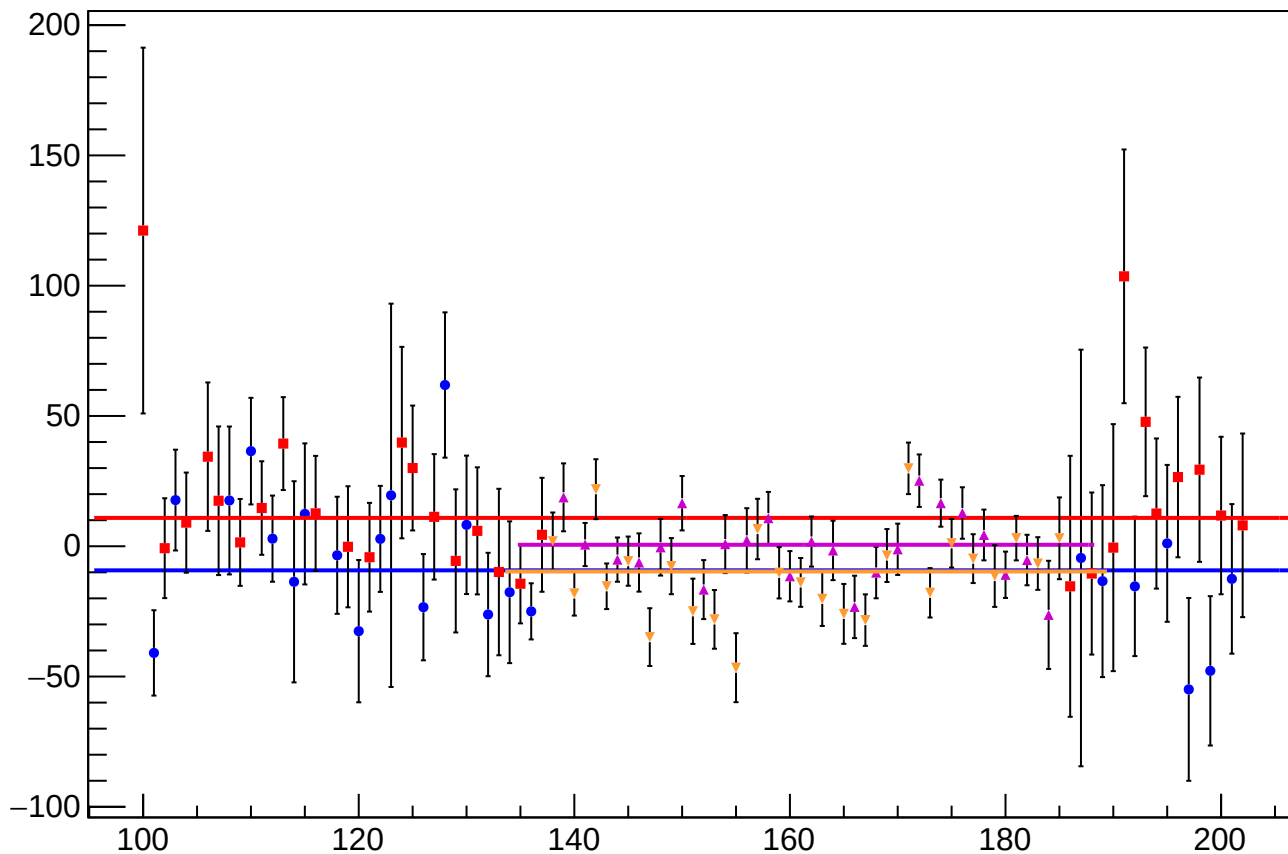
Right: 6646.484 $\pm$ 0.986 χ^2/NDF : 3572989.3/52

In: 6892.360 $\pm$ 0.929 χ^2/NDF : 2033194.6/46

Out: 6892.310 $\pm$ 0.886 χ^2/NDF : 2547619.6/53

All: 6892.334 $\pm$ 0.641 χ^2/NDF : 4580814.2/100

diff_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -9.248 ± 4.707 $\chi^2/\text{NDF}: 28.0/23$

Left Out: -9.670 ± 2.061 $\chi^2/\text{NDF}: 57.9/24$

Right Out: 10.883 ± 4.601 $\chi^2/\text{NDF}: 18.8/28$

Left In: 0.564 ± 2.144 $\chi^2/\text{NDF}: 29.7/22$

Left: -4.755 ± 1.486 $\chi^2/\text{NDF}: 99.5/47$

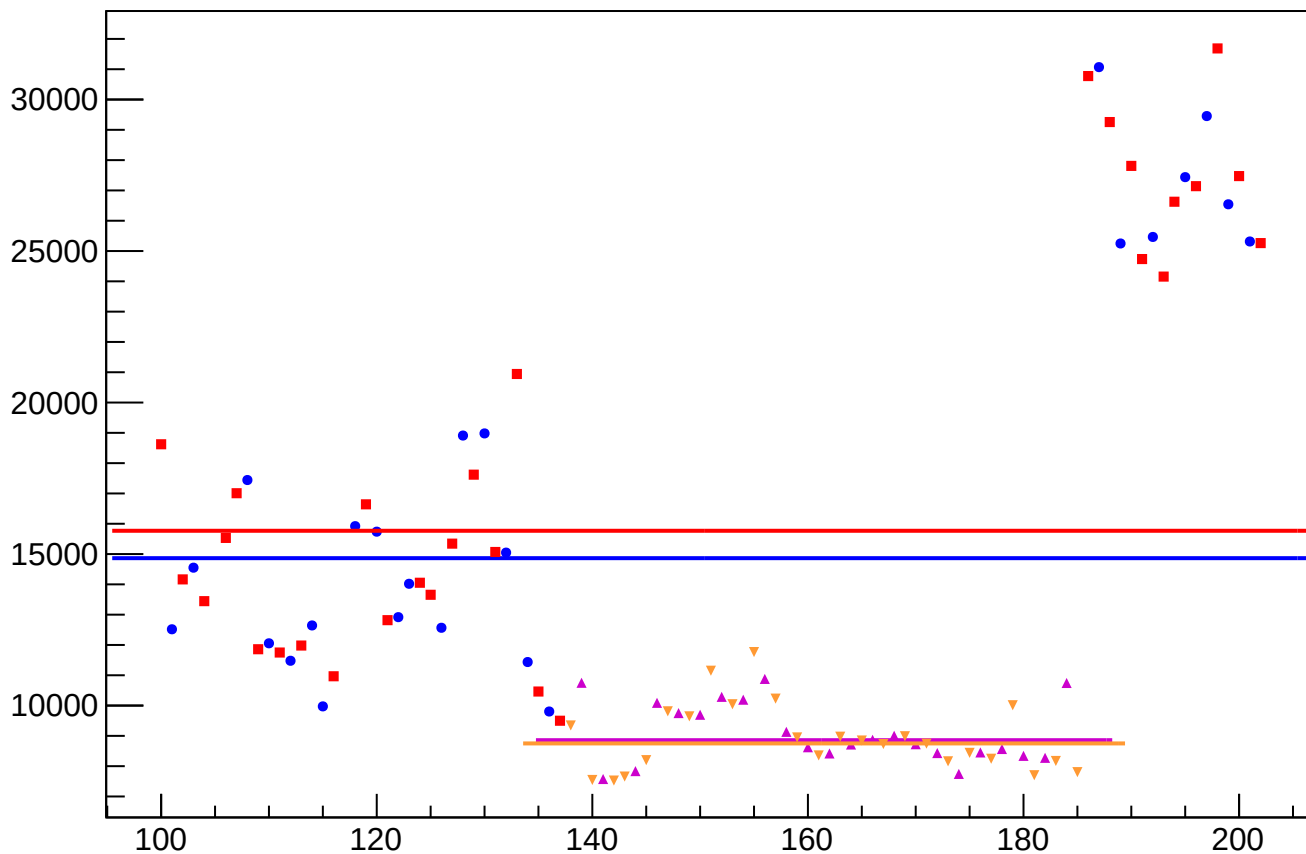
Right: 1.045 ± 3.290 $\chi^2/\text{NDF}: 56.1/52$

In: -1.122 ± 1.951 $\chi^2/\text{NDF}: 61.3/46$

Out: -6.236 ± 1.881 $\chi^2/\text{NDF}: 93.4/53$

All: -3.773 ± 1.354 $\chi^2/\text{NDF}: 158.2/100$

diff_bpm4ecX_rms vs Slug, Sign Corrected



Right In: 14864.367 $\pm$ 3.328 χ^2 /NDF: 2711993.4/23

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

Right Out: 15768.337 $\pm$ 3.253 χ^2 /NDF: 3312654.4/28

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

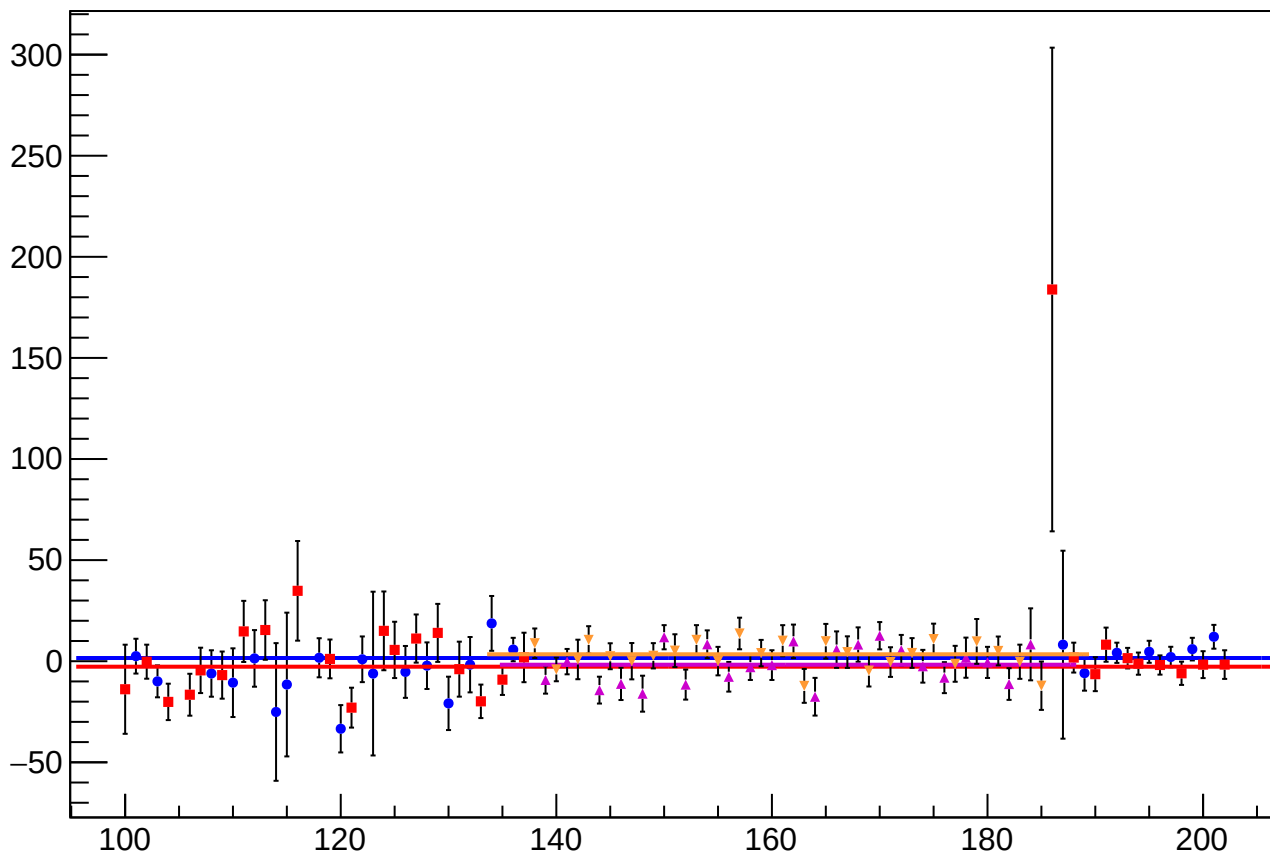
Right: 15326.601 $\pm$ 2.326 χ^2 /NDF: 6062374.1/52

In: 9889.387 $\pm$ 1.379 χ^2 /NDF: 5771999.7/46

Out: 9922.918 $\pm$ 1.330 χ^2 /NDF: 7652239.4/53

All: 9906.767 $\pm$ 0.957 χ^2 /NDF: 13424545.4/100

diff_bpm4ecY_mean vs Slug, Sign Corrected



Right In: 1.586 ± 1.766 $\chi^2/\text{NDF}: 23.4/23$

Left Out: 3.433 ± 1.526 $\chi^2/\text{NDF}: 16.2/24$

Right Out: -2.712 ± 1.613 $\chi^2/\text{NDF}: 30.4/28$

Left In: -1.734 ± 1.586 $\chi^2/\text{NDF}: 33.6/22$

Left: 0.949 ± 1.099 $\chi^2/\text{NDF}: 55.3/47$

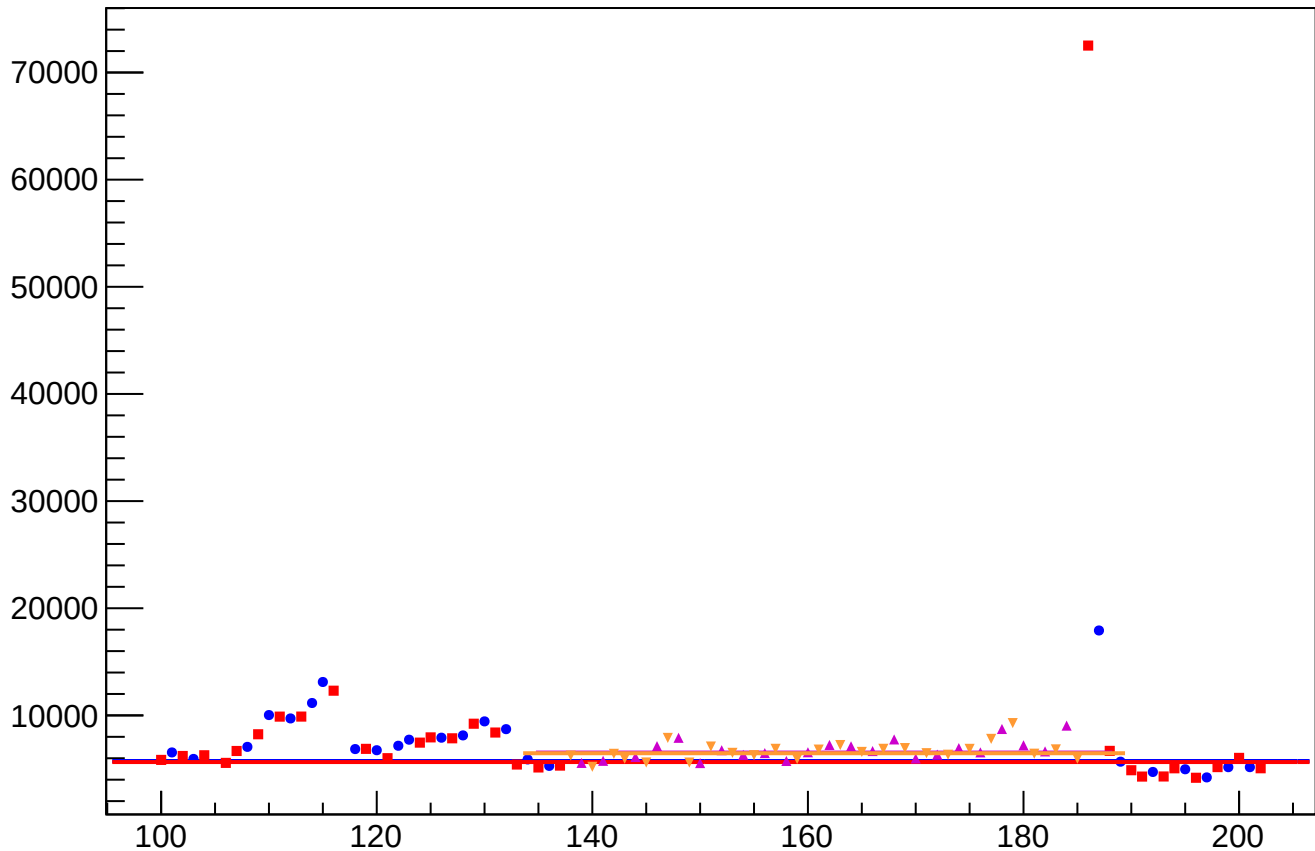
Right: -0.757 ± 1.191 $\chi^2/\text{NDF}: 57.1/52$

In: -0.252 ± 1.180 $\chi^2/\text{NDF}: 59.0/46$

Out: 0.531 ± 1.108 $\chi^2/\text{NDF}: 54.3/53$

All: 0.164 ± 0.808 $\chi^2/\text{NDF}: 113.6/100$

diff_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 5744.067+/-1.248 χ^2/NDF : 1439289.5/23

Left Out: 6468.872+/-1.079 χ^2/NDF : 487187.3/24

Right Out: 5645.566+/-1.141 χ^2/NDF : 2119417.7/28

Left In: 6530.954+/-1.121 χ^2/NDF : 464668.6/22

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

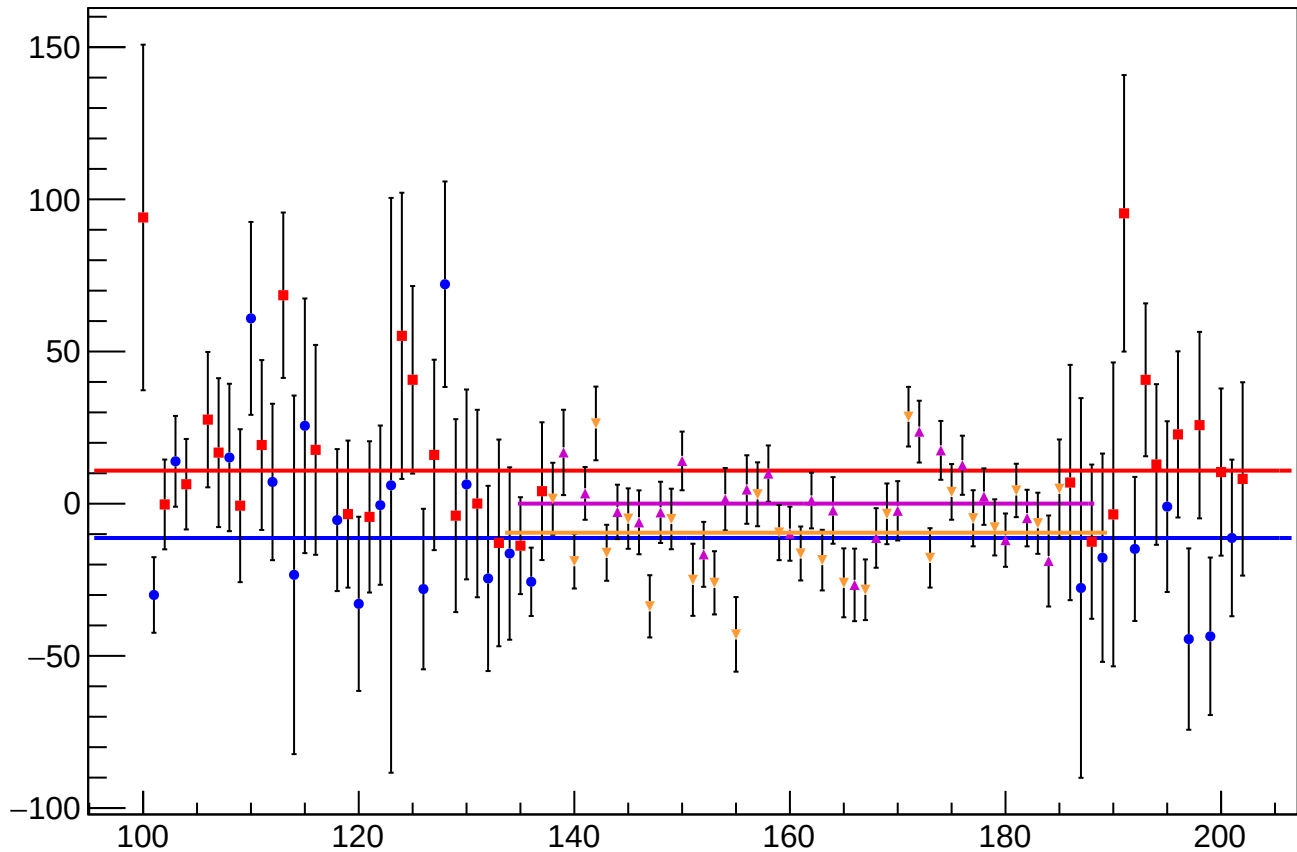
Right: 5690.382+/-0.842 χ^2/NDF : 3562099.7/52

In: 6179.603+/-0.834 χ^2/NDF : 2123829.6/46

Out: 6080.166+/-0.784 χ^2/NDF : 2881585.7/53

All: 6126.787+/-0.571 χ^2/NDF : 5012961.3/100

diff_bpm1X_mean vs Slug, Sign Corrected



Right In: -11.272 ± 4.846 χ^2/NDF : 25.4/23

Left Out: -9.528 ± 2.015 χ^2/NDF : 59.6/24

Right Out: 10.867 ± 4.782 χ^2/NDF : 20.4/28

Left In: 0.027 ± 2.080 χ^2/NDF : 29.9/22

Left: -4.902 ± 1.447 χ^2/NDF : 100.3/47

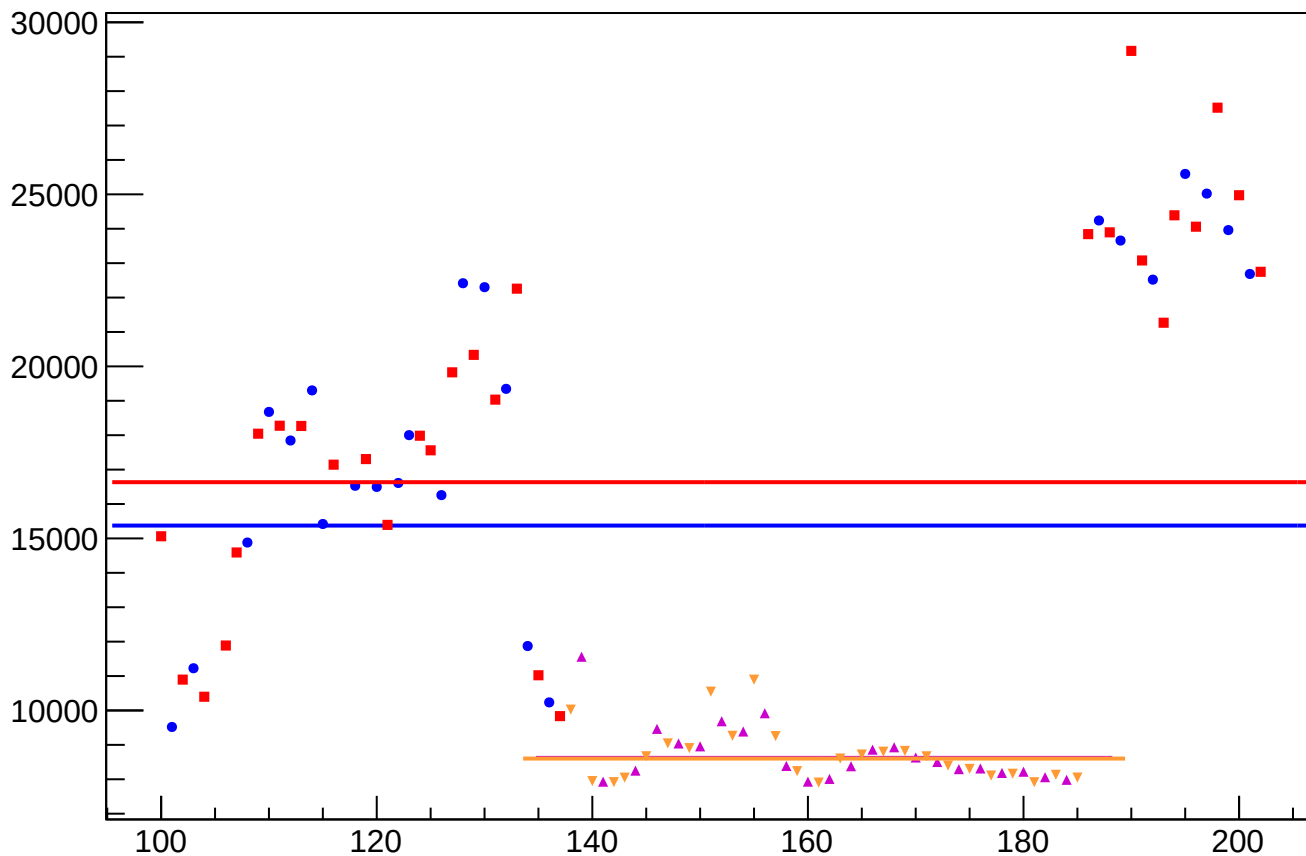
Right: -0.056 ± 3.404 χ^2/NDF : 56.4/52

In: -1.731 ± 1.911 χ^2/NDF : 59.9/46

Out: -6.453 ± 1.857 χ^2/NDF : 95.4/53

All: -4.160 ± 1.332 χ^2/NDF : 158.5/100

diff_bpm1X_rms vs Slug, Sign Corrected



Right In: 15373.311+/-3.427 χ^2/NDF : 2530909.5/23

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

Right Out: 16634.386+/-3.382 χ^2/NDF : 2636160.3/28

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

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

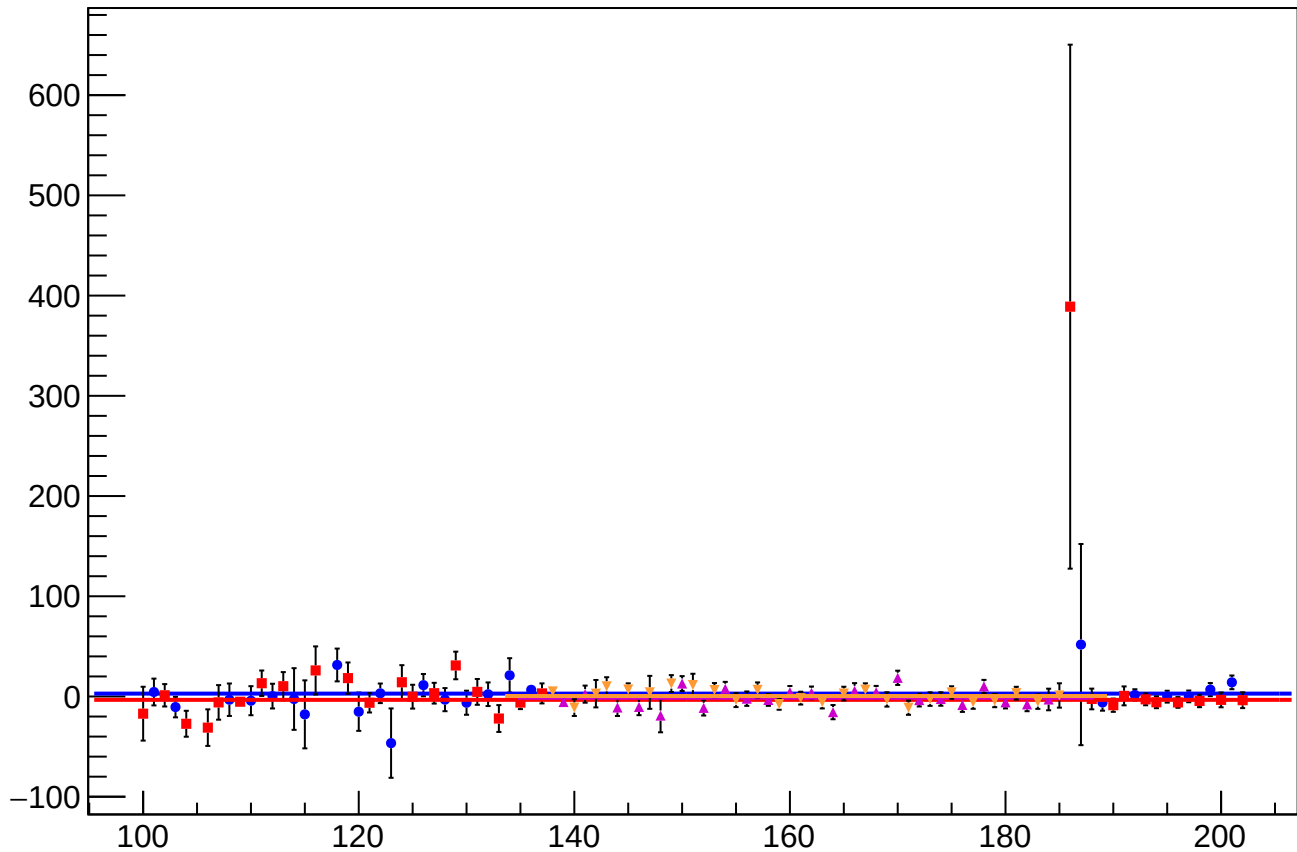
Right: 16012.234+/-2.407 χ^2/NDF : 5235676.8/52

In: 9671.979+/-1.351 χ^2/NDF : 6039252.8/46

Out: 9813.126+/-1.313 χ^2/NDF : 7676266.3/53

All: 9744.582+/-0.942 χ^2/NDF : 13721129.7/100

diff_bpm1Y_mean vs Slug, Sign Corrected



Right In: 2.877 $\pm$ 1.890 χ^2/NDF : 16.8/23

Left Out: 0.481 $\pm$ 1.419 χ^2/NDF :19.6/24

Right Out: -3.348 $\pm$ 1.659 χ^2/NDF : 26.7/28

Left In: -1.298 $\pm$ 1.406 χ^2/NDF :33.0/22

Left: -0.417 $\pm$ 0.999 χ^2/NDF : 53.4/47

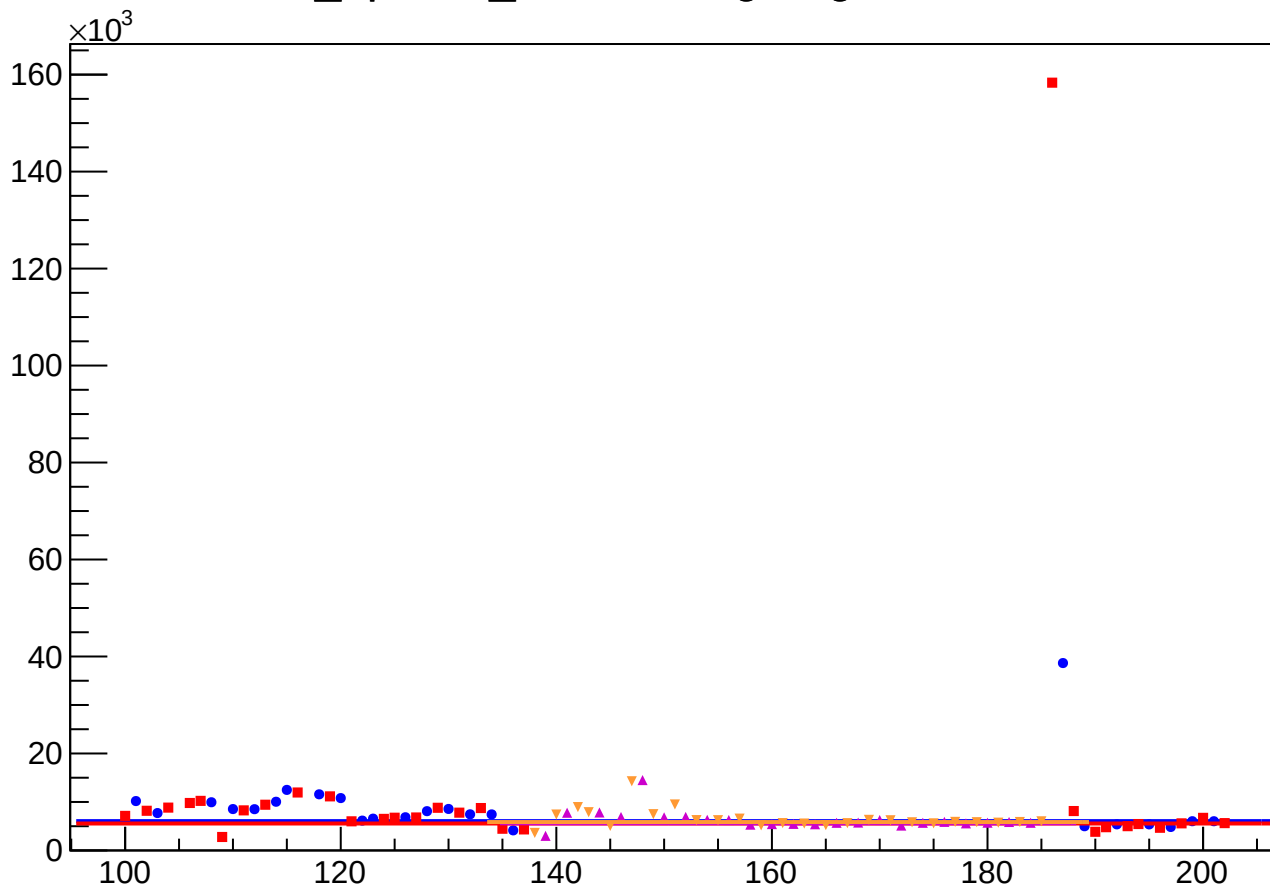
Right: -0.639 $\pm$ 1.247 χ^2/NDF : 49.6/52

In: 0.190 $\pm$ 1.128 χ^2/NDF :53.0/46

Out: -1.137 $\pm$ 1.078 χ^2/NDF :49.3/53

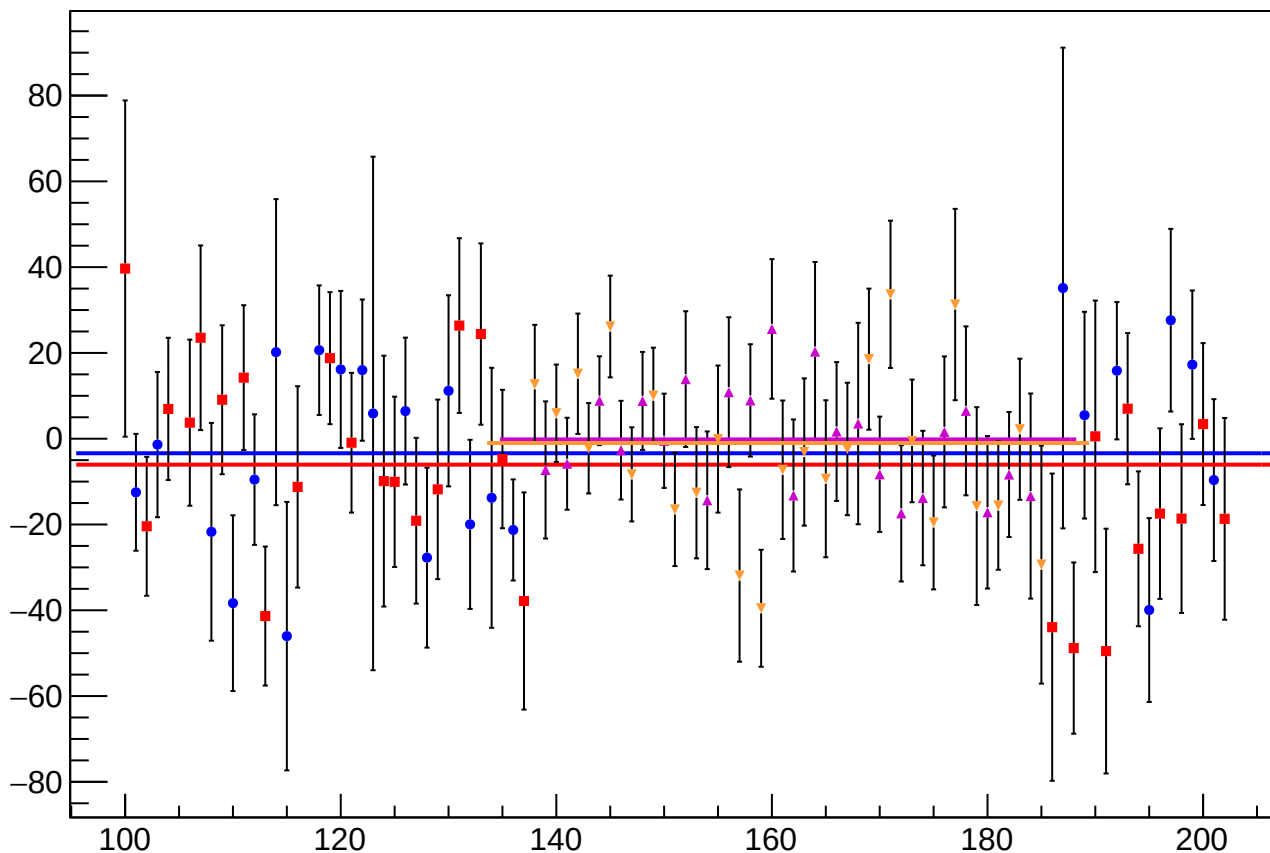
All: -0.504 $\pm$ 0.780 χ^2/NDF : 103.0/100

diff_bpm1Y_rms vs Slug, Sign Corrected



Right In: 6049.441 $\pm$ 1.336	χ^2/NDF : 1895193.4/23	Left: 5726.555 $\pm$ 0.706	χ^2/NDF : 3815425.5/47
Left Out: 5858.642 $\pm$ 1.004	χ^2/NDF : 1691344.1/24	Right: 5772.449 $\pm$ 0.882	χ^2/NDF : 5354526.5/52
Right Out: 5559.007 $\pm$ 1.173	χ^2/NDF : 3383260.6/28	In: 5758.157 $\pm$ 0.798	χ^2/NDF : 4058763.7/46
Left In: 5596.879 $\pm$ 0.994	χ^2/NDF : 2089750.1/22	Out: 5732.018 $\pm$ 0.763	χ^2/NDF : 5112277.9/53
		All: 5744.499 $\pm$ 0.551	χ^2/NDF : 9171602.6/10

diff_bpm11X_mean vs Slug, Sign Corrected



Right In: -3.392 $\pm$ 3.913 χ^2/NDF : 25.3/23

Left Out: -1.007 $\pm$ 2.942 χ^2/NDF : 33.5/24

Right Out: -6.054 $\pm$ 3.699 χ^2/NDF : 32.4/28

Left In: -0.172 $\pm$ 3.067 χ^2/NDF : 12.4/22

Left: -0.607 $\pm$ 2.123 χ^2/NDF : 45.9/47

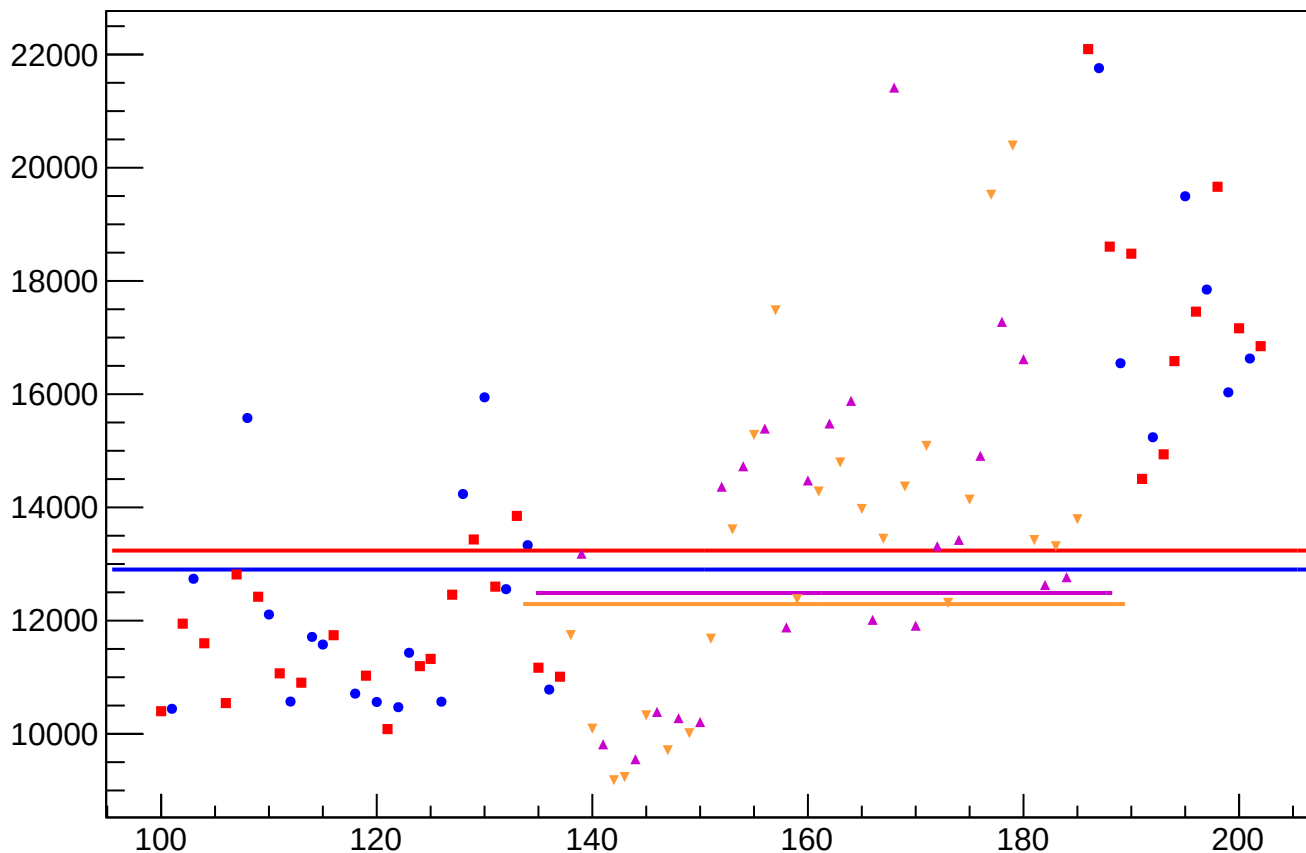
Right: -4.798 $\pm$ 2.688 χ^2/NDF : 57.9/52

In: -1.398 $\pm$ 2.414 χ^2/NDF : 38.1/46

Out: -2.962 $\pm$ 2.302 χ^2/NDF : 67.0/53

All: -2.217 $\pm$ 1.666 χ^2/NDF : 105.3/100

diff_bpm11X_rms vs Slug, Sign Corrected



Right In: 12902.576 $\pm$ 2.767

χ^2/NDF : 990285.5/23

Left: 12386.599 $\pm$ 1.501

χ^2/NDF : 2861298.1/47

Left Out: 12292.583 $\pm$ 2.080

χ^2/NDF : 1502548.3/24

Right: 13079.451 $\pm$ 1.901

χ^2/NDF : 2174729.5/52

Right Out: 13237.496 $\pm$ 2.615

χ^2/NDF : 1176705.8/28

In: 12646.298 $\pm$ 1.707

χ^2/NDF : 2358622.2/46

Out: 12658.676 $\pm$ 1.628

χ^2/NDF : 2759211.4/53

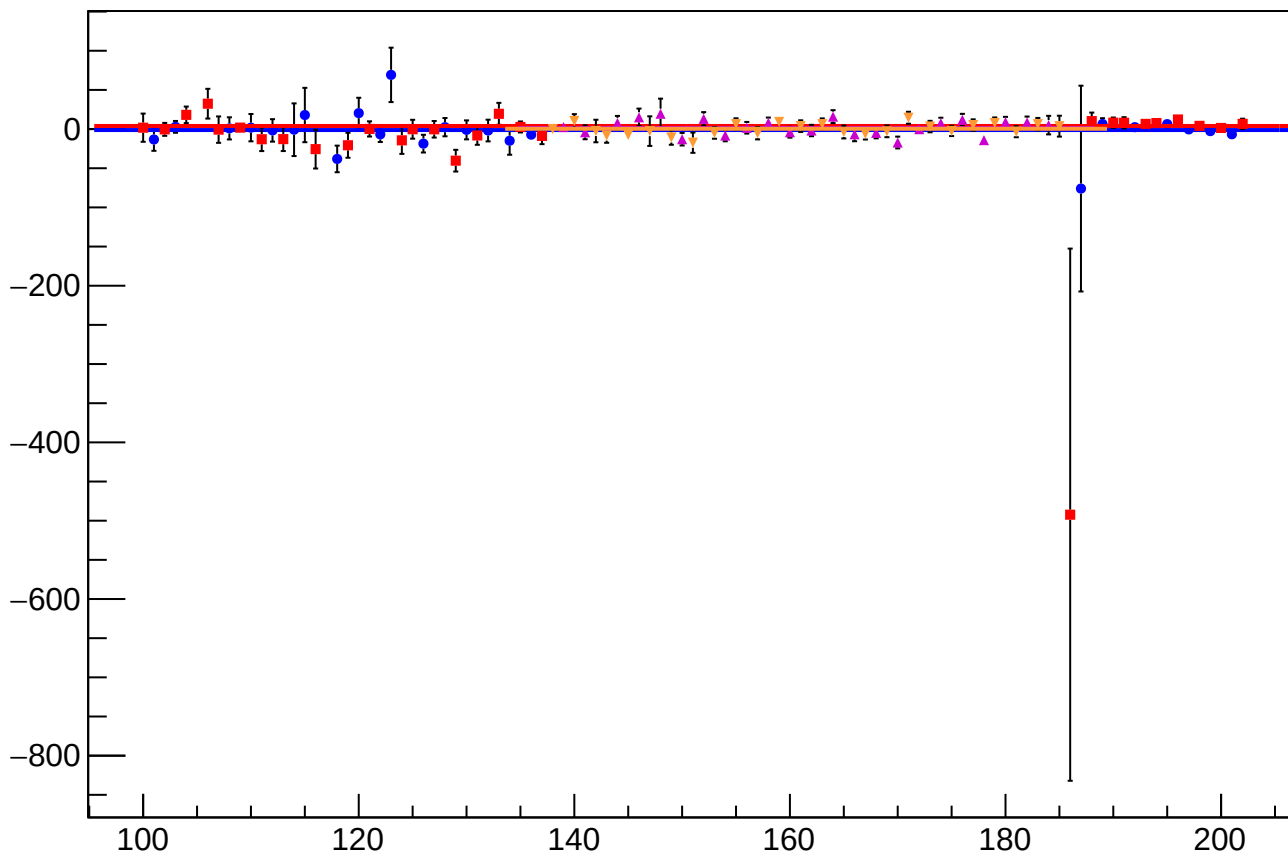
Left In: 12488.821 $\pm$ 2.169

χ^2/NDF : 1354485.4/22

All: 12652.780 $\pm$ 1.178

χ^2/NDF : 5117861.1/100

diff_bpm11Y_mean vs Slug, Sign Corrected



Right In: -1.252 ± 1.700 χ^2/NDF : 21.7/23

Left Out: 0.410 ± 1.435 χ^2/NDF : 19.3/24

Right Out: 3.957 ± 1.498 χ^2/NDF : 33.6/28

Left In: 1.278 ± 1.386 χ^2/NDF : 34.0/22

Left: 0.859 ± 0.997 χ^2/NDF : 53.5/47

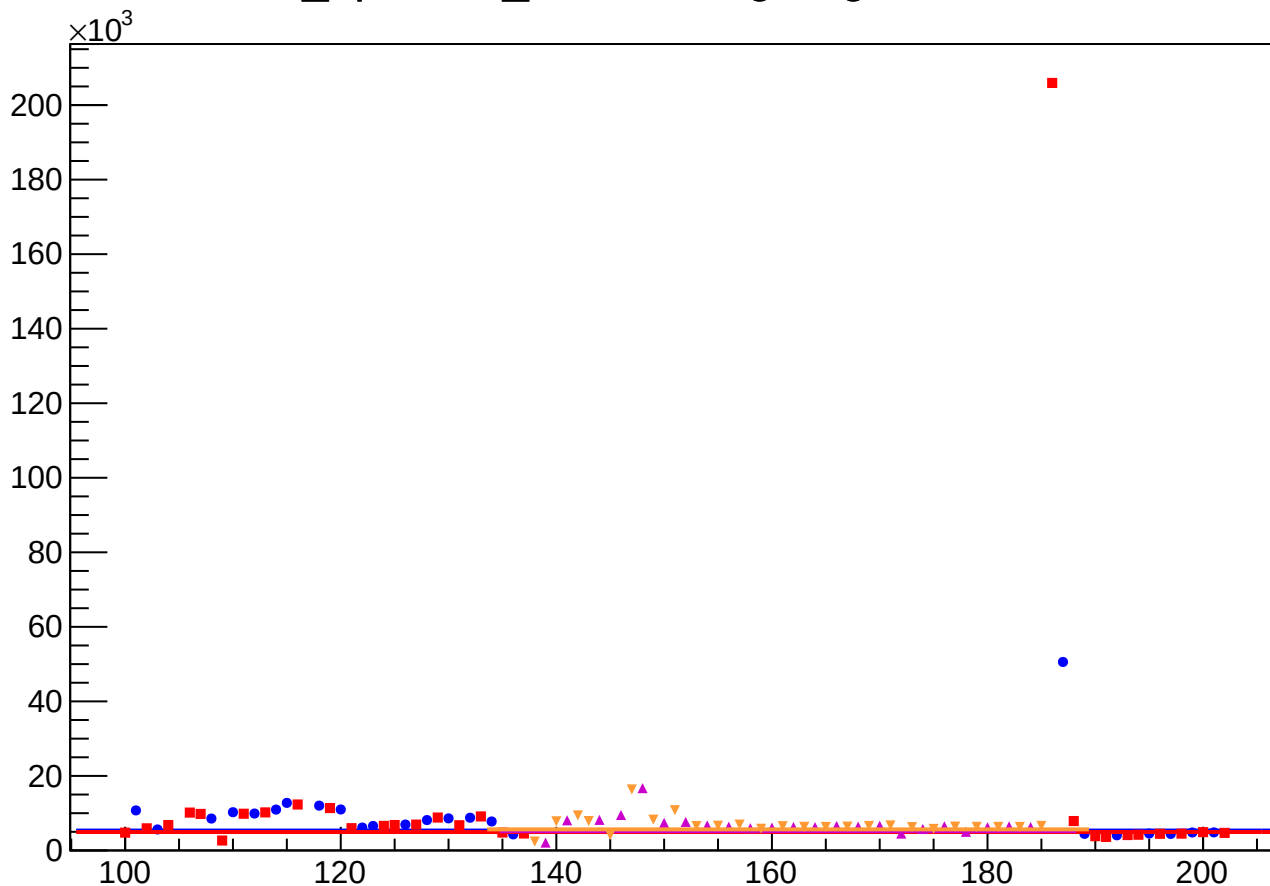
Right: 1.679 ± 1.124 χ^2/NDF : 60.6/52

In: 0.268 ± 1.074 χ^2/NDF : 57.1/46

Out: 2.107 ± 1.036 χ^2/NDF : 55.8/53

All: 1.220 ± 0.746 χ^2/NDF : 114.4/100

diff_bpm11Y_rms vs Slug, Sign Corrected



Right In: 5336.952 ± 1.202 $\chi^2/\text{NDF}: 2527971.4/23$

Left Out: 5655.639 ± 1.014 $\chi^2/\text{NDF}: 4124124.3/24$

Right Out: 4947.472 ± 1.060 $\chi^2/\text{NDF}: 3491492.4/28$

Left In: 5180.743 ± 0.980 $\chi^2/\text{NDF}: 5350053.6/22$

Left: 5409.966 ± 0.705 $\chi^2/\text{NDF}: 9587556.1/47$

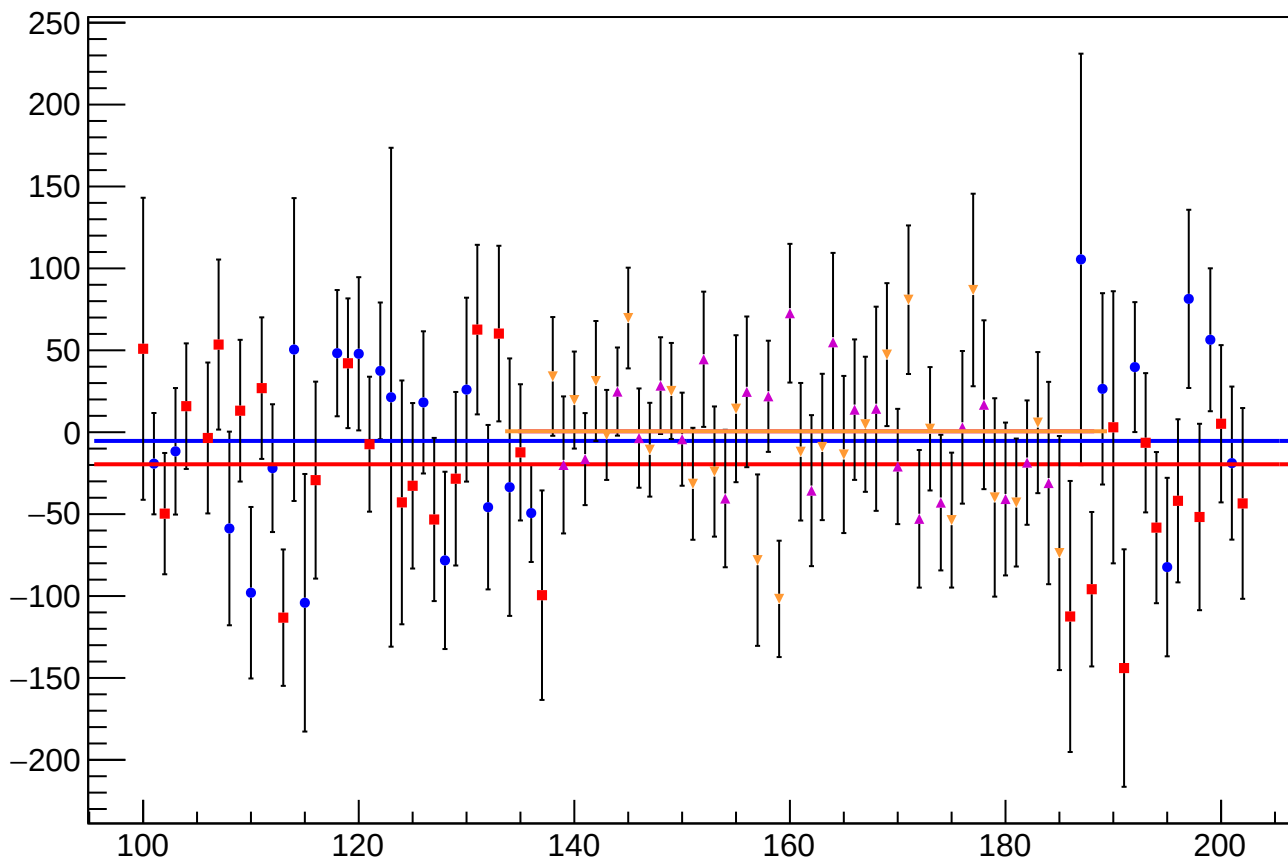
Right: 5117.822 ± 0.795 $\chi^2/\text{NDF}: 6078560.5/52$

In: 5243.123 ± 0.759 $\chi^2/\text{NDF}: 7888173.9/46$

Out: 5316.970 ± 0.733 $\chi^2/\text{NDF}: 7848685.4/53$

All: 5281.366 ± 0.527 $\chi^2/\text{NDF}: 15741756.3/100$

diff_bpm12X_mean vs Slug, Sign Corrected



Right In: -5.314 ± 9.726 χ^2/NDF : 25.0/23

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

Right Out: -19.569 ± 9.208 χ^2/NDF : 29.2/28

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

Left: 0.572 ± 5.549 χ^2/NDF : 45.3/47

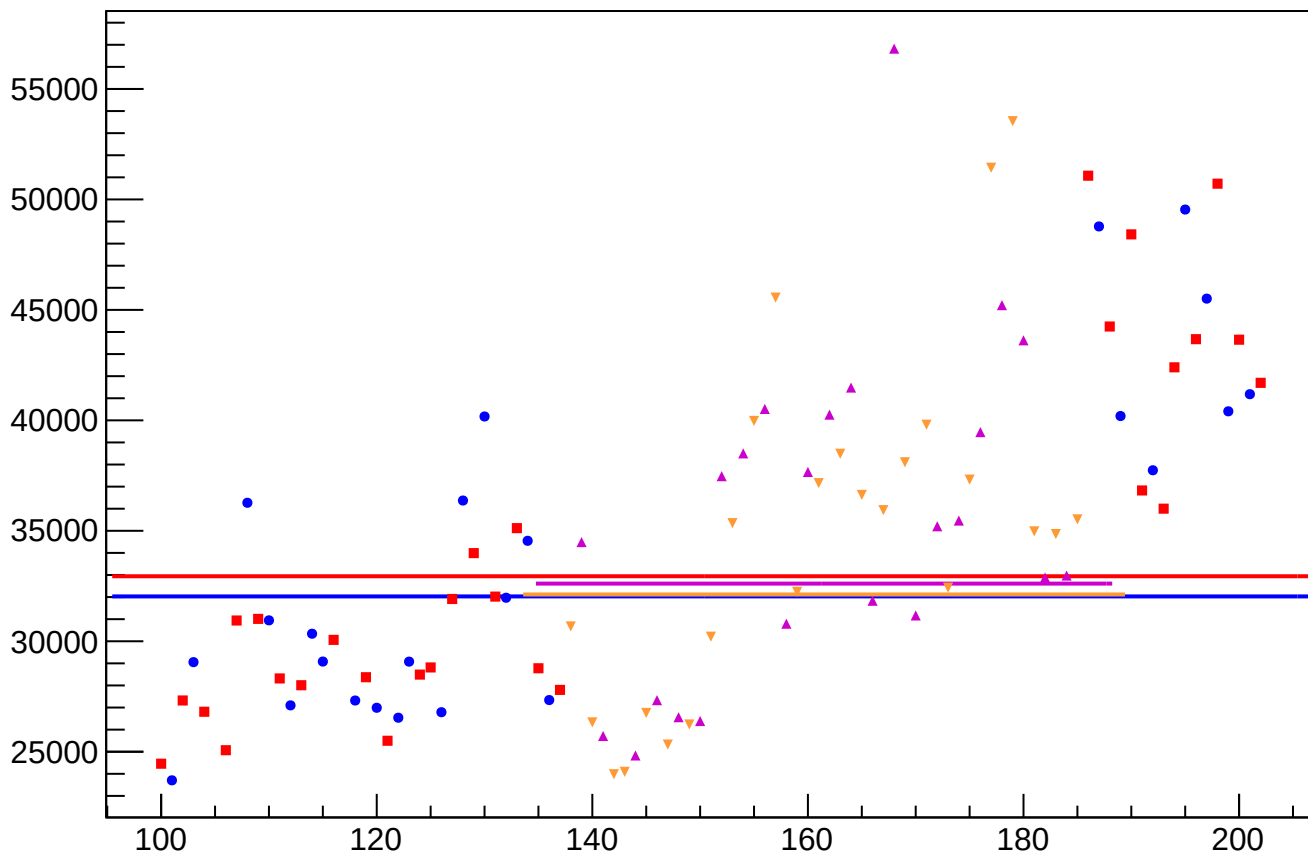
Right: -12.831 ± 6.687 χ^2/NDF : 55.3/52

In: -1.813 ± 6.185 χ^2/NDF : 39.5/46

Out: -7.700 ± 5.903 χ^2/NDF : 63.0/53

All: -4.894 ± 4.270 χ^2/NDF : 102.9/100

diff_bpm12X_rms vs Slug, Sign Corrected



Right In: 32030.406 $\pm$ 6.878

χ^2/NDF : 1023499.6/23

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

Right: 32511.541 $\pm$ 4.728 χ^2/NDF : 2232560.6/52

Left Out: 32117.184 $\pm$ 5.438

χ^2/NDF : 1536740.0/24

In: 32375.678 $\pm$ 4.374 χ^2/NDF : 2426206.8/46

Right Out: 32942.779 $\pm$ 6.511

χ^2/NDF : 1199780.6/28

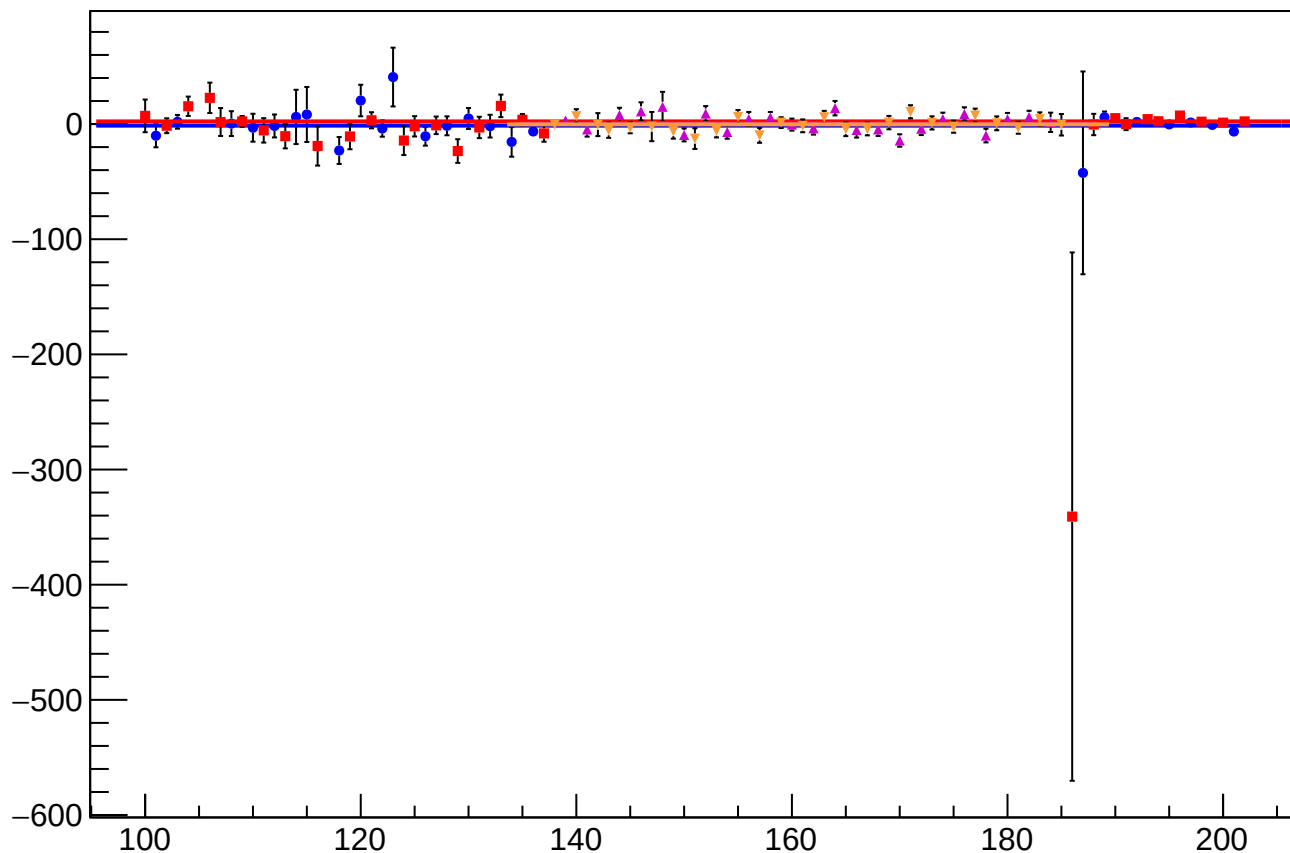
Out: 32456.430 $\pm$ 4.174 χ^2/NDF : 2745991.5/53

Left In: 32610.108 $\pm$ 5.667

χ^2/NDF : 1398475.8/22

All: 32417.940 $\pm$ 3.019 χ^2/NDF : 5172376.8/1

diff_bpm12Y_mean vs Slug, Sign Corrected



Right In: -1.357 ± 1.175 χ^2/NDF : 21.4/23

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

Right Out: 2.314 ± 1.077 χ^2/NDF : 29.1/28

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

Left: 0.345 ± 0.822 χ^2/NDF : 54.7/47

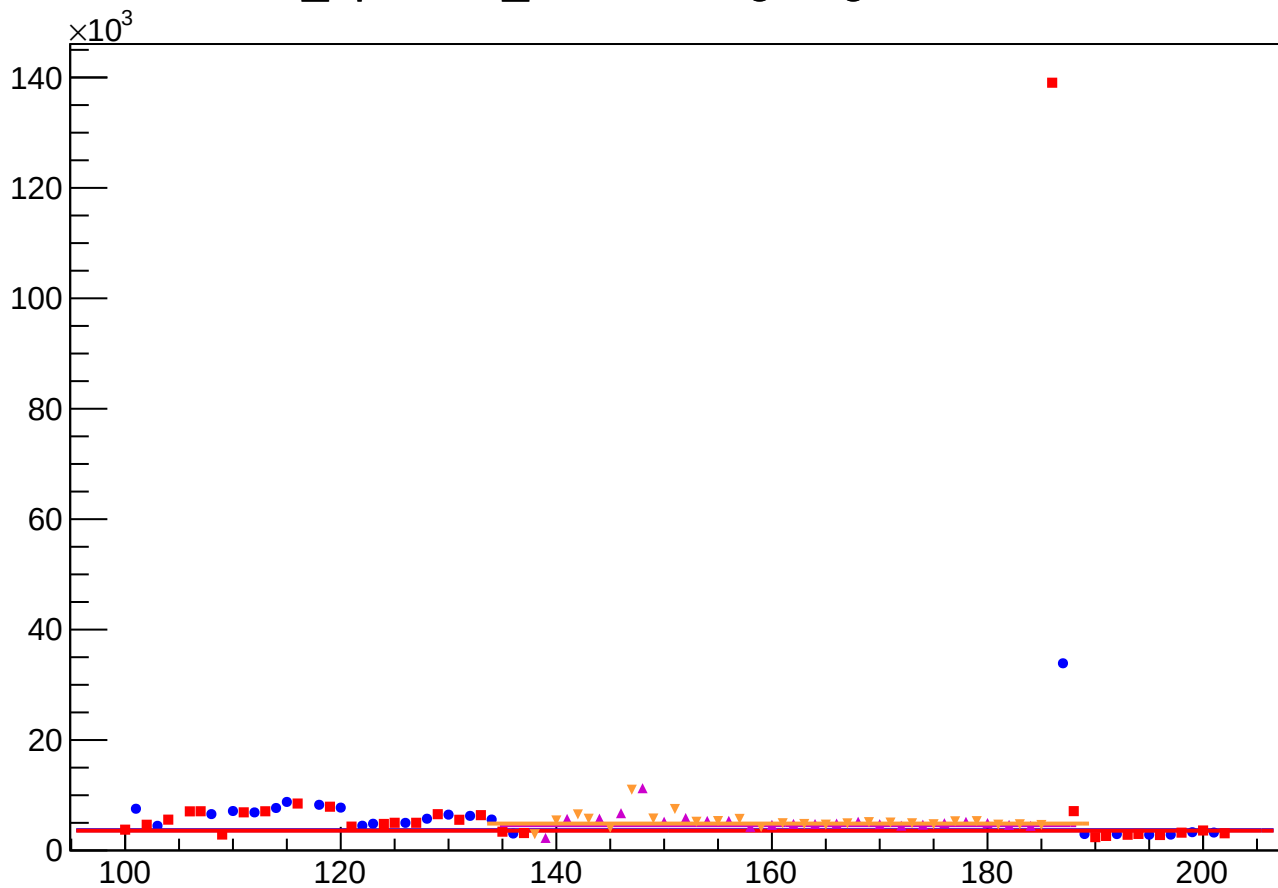
Right: 0.638 ± 0.794 χ^2/NDF : 55.8/52

In: -0.195 ± 0.823 χ^2/NDF : 59.4/46

Out: 1.139 ± 0.793 χ^2/NDF : 49.7/53

All: 0.497 ± 0.571 χ^2/NDF : 110.5/100

diff_bpm12Y_rms vs Slug, Sign Corrected



Right In: 3667.599 $\pm$ 0.831 χ^2/NDF : 2804242.4/23

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

Right Out: 3584.748 $\pm$ 0.762 χ^2/NDF : 3553926.4/28

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

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

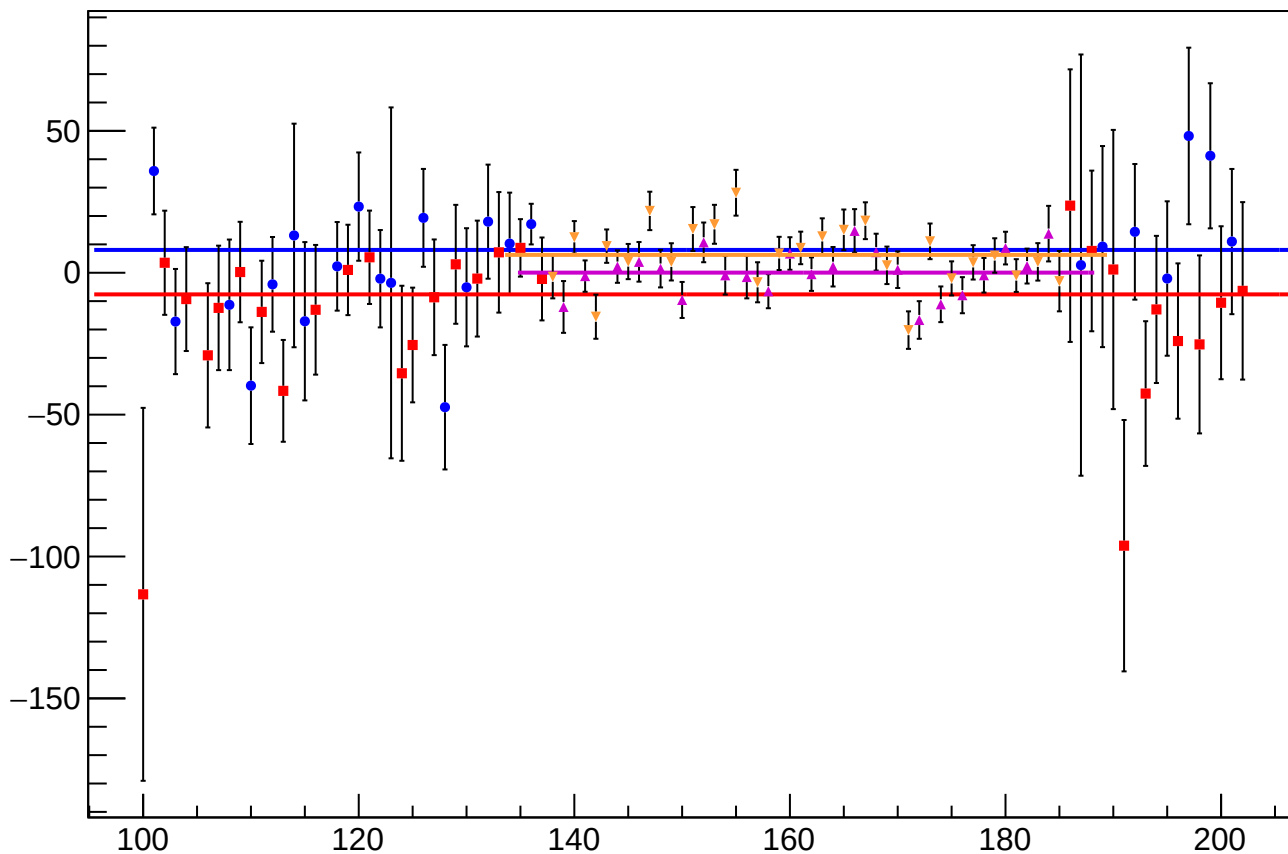
Right: 3622.573 $\pm$ 0.561 χ^2/NDF : 6363571.8/52

In: 4133.298 $\pm$ 0.582 χ^2/NDF : 5899828.1/46

Out: 4171.136 $\pm$ 0.561 χ^2/NDF : 6361308.1/53

All: 4152.918 $\pm$ 0.404 χ^2/NDF : 12263326.9/100

diff_bpm16X_mean vs Slug, Sign Corrected



Right In: 8.044 ± 3.822 $\chi^2/\text{NDF}: 26.5/23$

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

Right Out: -7.623 ± 3.882 $\chi^2/\text{NDF}: 21.1/28$

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

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

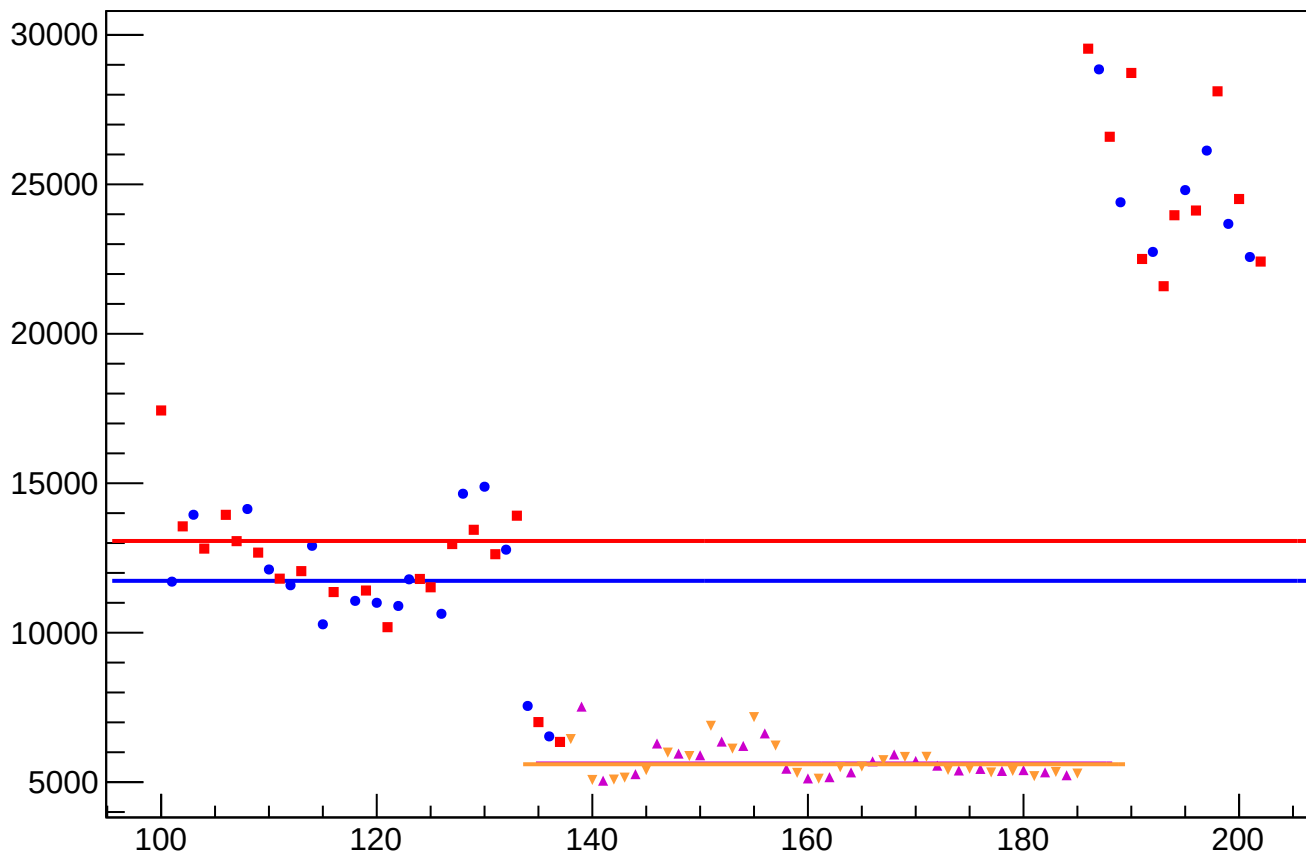
Right: 0.334 ± 2.723 $\chi^2/\text{NDF}: 55.9/52$

In: 0.941 ± 1.279 $\chi^2/\text{NDF}: 60.4/46$

Out: 4.874 ± 1.243 $\chi^2/\text{NDF}: 89.4/53$

All: 2.963 ± 0.892 $\chi^2/\text{NDF}: 154.6/100$

diff_bpm16X_rms vs Slug, Sign Corrected



Right In: 11734.874 $\pm$ 2.702 χ^2 /NDF: 3800217.6/23

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

Right Out: 13068.648 $\pm$ 2.745 χ^2 /NDF: 4171558.1/28

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

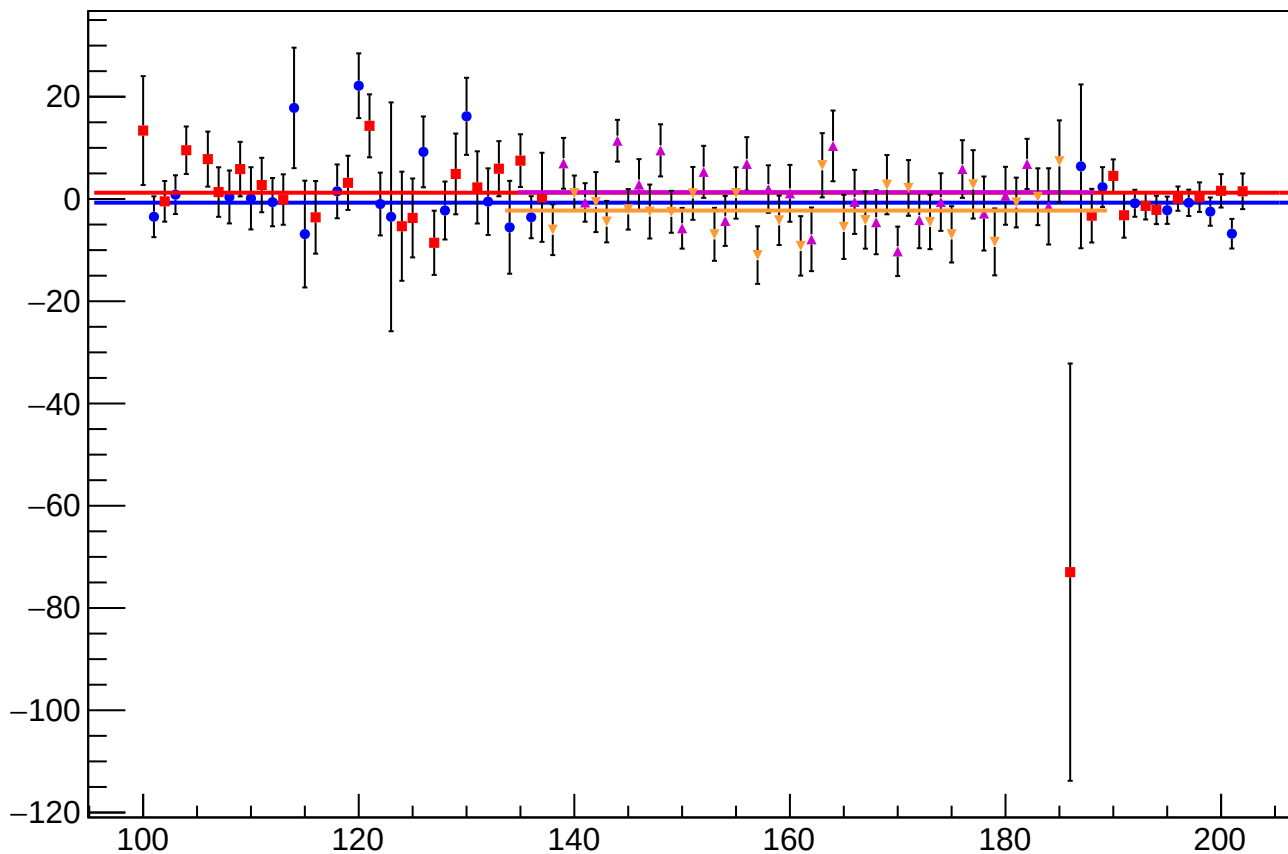
Right: 12391.257 $\pm$ 1.926 χ^2 /NDF: 8091667.5/52

In: 6309.929 $\pm$ 0.905 χ^2 /NDF: 8611835.8/46

Out: 6365.052 $\pm$ 0.879 χ^2 /NDF: 11099706.3/53

All: 6338.277 $\pm$ 0.631 χ^2 /NDF: 19713451.4/100

diff_bpm16Y_mean vs Slug, Sign Corrected



Right In: -0.720 ± 0.888 χ^2/NDF : 30.6/23

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

Right Out: 1.227 ± 0.819 χ^2/NDF : 26.7/28

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

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

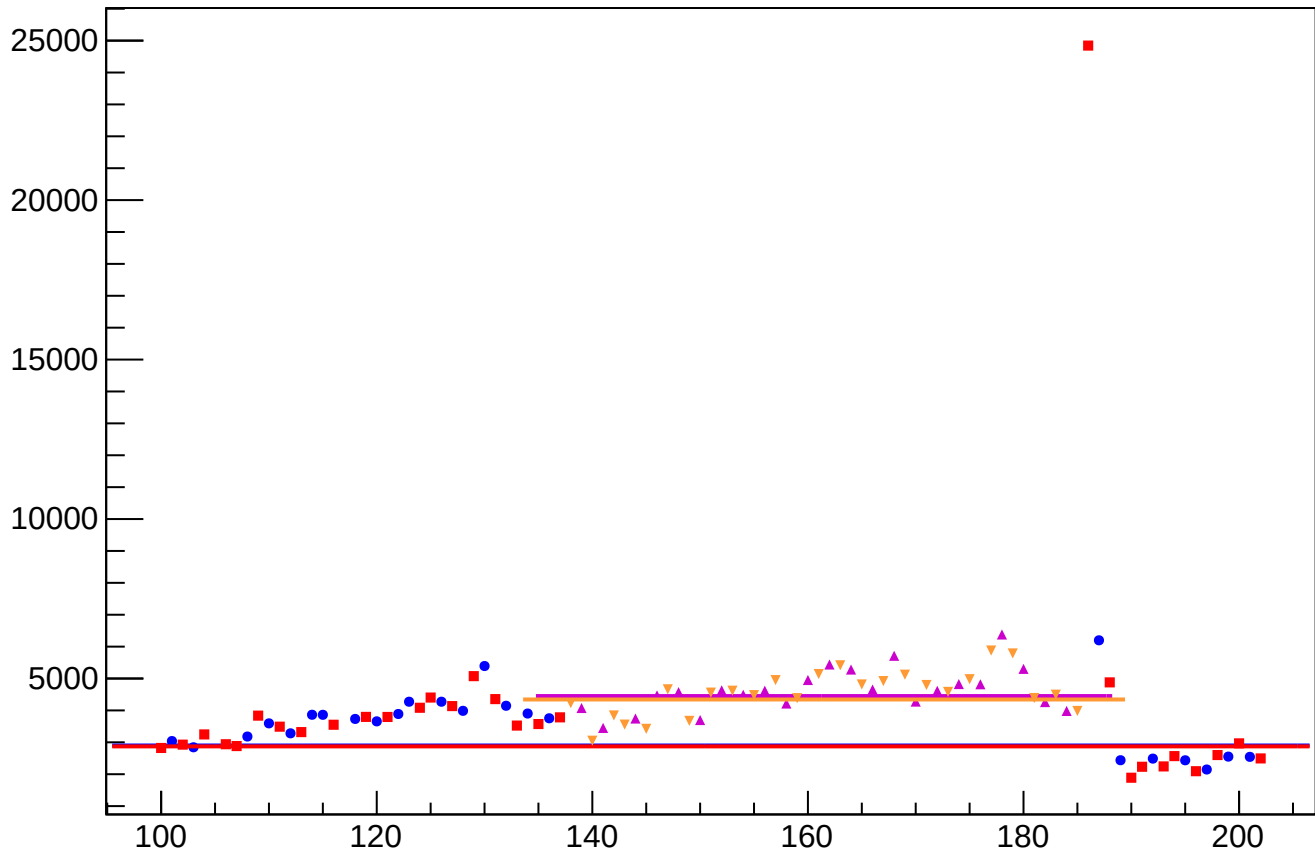
Right: 0.332 ± 0.602 χ^2/NDF : 59.9/52

In: 0.105 ± 0.687 χ^2/NDF : 63.3/46

Out: -0.125 ± 0.641 χ^2/NDF : 49.2/53

All: -0.018 ± 0.469 χ^2/NDF : 112.6/100

diff_bpm16Y_rms vs Slug, Sign Corrected



Right In: 2900.005+/-0.628 χ^2/NDF : 1225257.9/23

Left Out: 4342.635+/-0.728 χ^2/NDF : 993035.5/24

Right Out: 2872.238+/-0.579 χ^2/NDF : 2257230.7/28

Left In: 4450.007+/-0.765 χ^2/NDF : 693229.8/22

Left: 4393.686+/-0.528 χ^2/NDF : 1696596.0/47

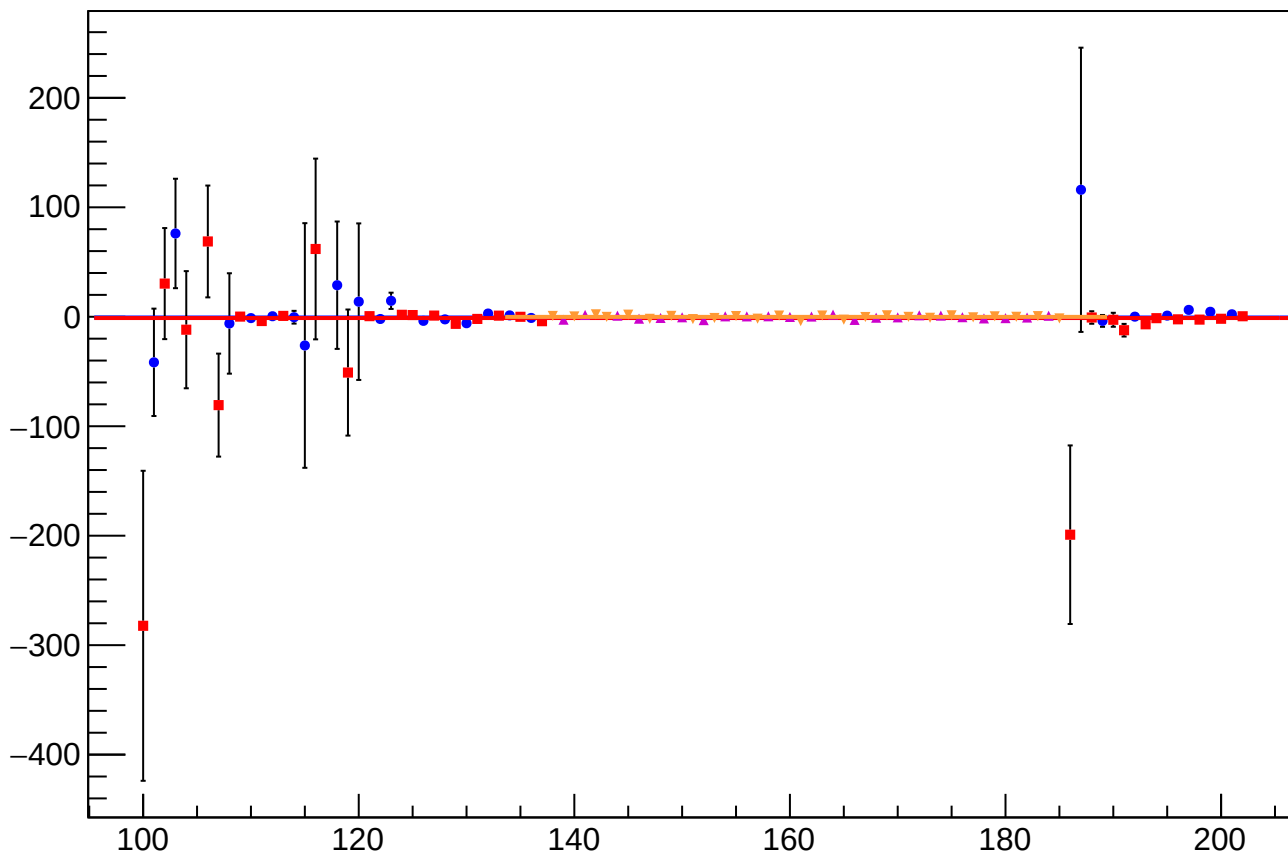
Right: 2885.001+/-0.426 χ^2/NDF : 3483544.2/52

In: 3524.216+/-0.486 χ^2/NDF : 4369884.7/46

Out: 3442.076+/-0.453 χ^2/NDF : 5745901.4/53

All: 3480.344+/-0.331 χ^2/NDF : 10131072.7/100

diff_bpm1p02bX_mean vs Slug, Sign Corrected



Right In: -0.667 ± 0.668 χ^2/NDF : 25.4/23

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

Right Out: -1.158 ± 0.631 χ^2/NDF : 34.5/28

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

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

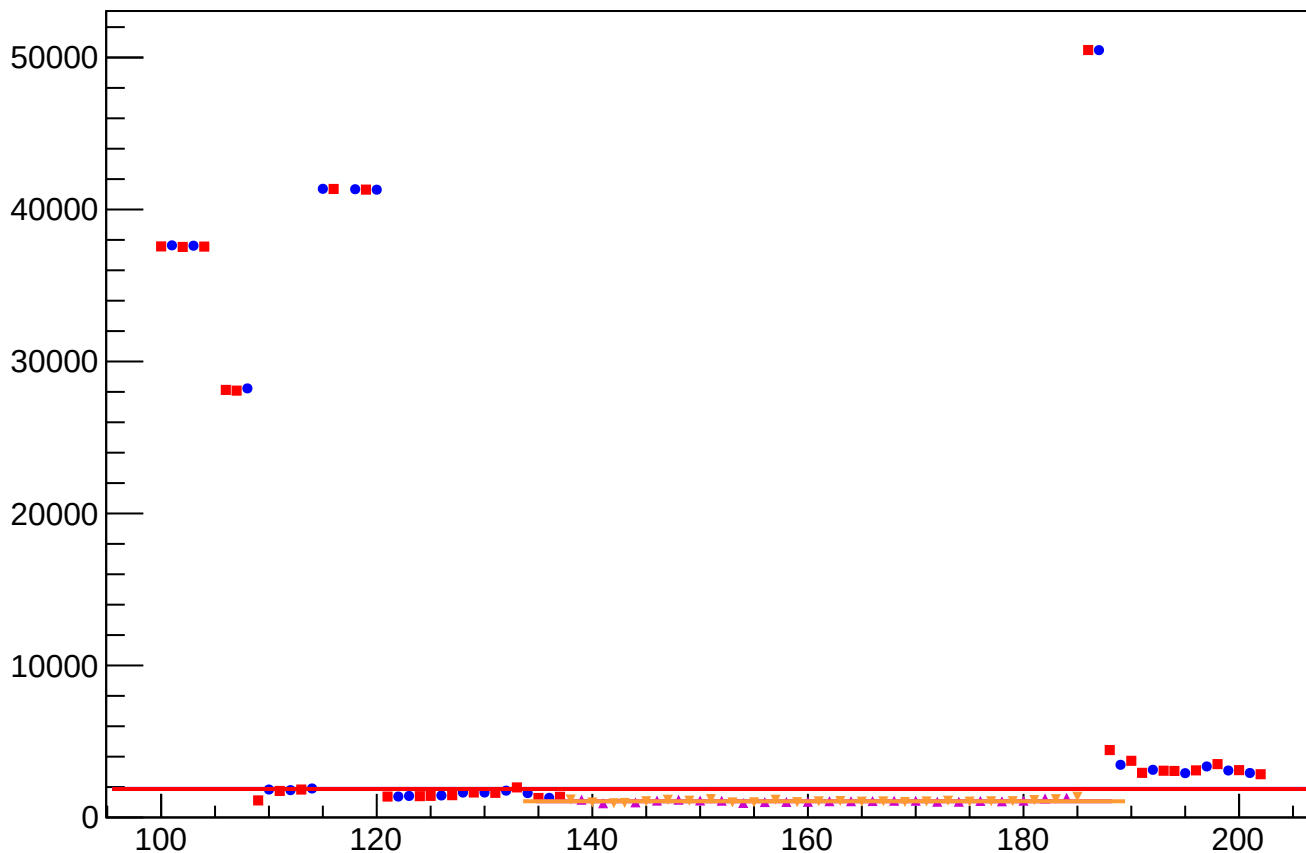
Right: -0.927 ± 0.459 χ^2/NDF : 60.2/52

In: -0.312 ± 0.240 χ^2/NDF : 52.9/46

Out: -0.235 ± 0.232 χ^2/NDF : 71.5/53

All: -0.272 ± 0.167 χ^2/NDF : 124.4/100

diff_bpm1p02bX_rms vs Slug, Sign Corrected



Right In: 1880.031 $\pm$ 0.472 χ^2/NDF : 6794463.4/23

Left Out: 1064.701 $\pm$ 0.176 χ^2/NDF : 186511.5/24

Right Out: 1871.203 $\pm$ 0.446 χ^2/NDF : 8253344.3/28

Left In: 1066.255 $\pm$ 0.182 χ^2/NDF : 164232.1/22

Left: 1065.454 $\pm$ 0.126 χ^2/NDF : 350781.3/47

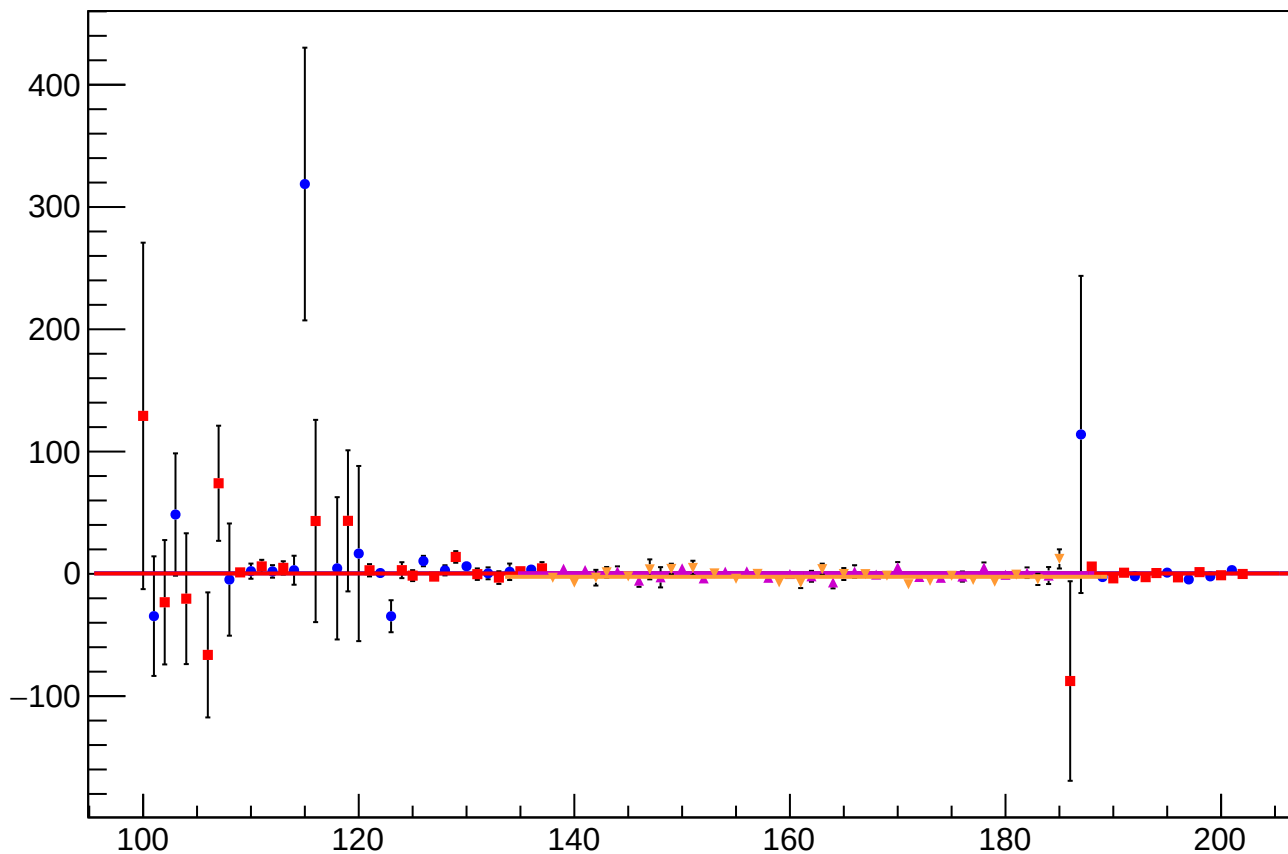
Right: 1875.362 $\pm$ 0.324 χ^2/NDF : 15047992.3/52

In: 1171.107 $\pm$ 0.170 χ^2/NDF : 9543130.1/46

Out: 1173.501 $\pm$ 0.164 χ^2/NDF : 11269361.6/53

All: 1172.346 $\pm$ 0.118 χ^2/NDF : 20812594.7/100

diff_bpm1p02bY_mean vs Slug, Sign Corrected



Right In: 0.453 ± 0.766 $\chi^2/\text{NDF}: 37.0/23$

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

Right Out: 0.282 ± 0.718 $\chi^2/\text{NDF}: 28.1/28$

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

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

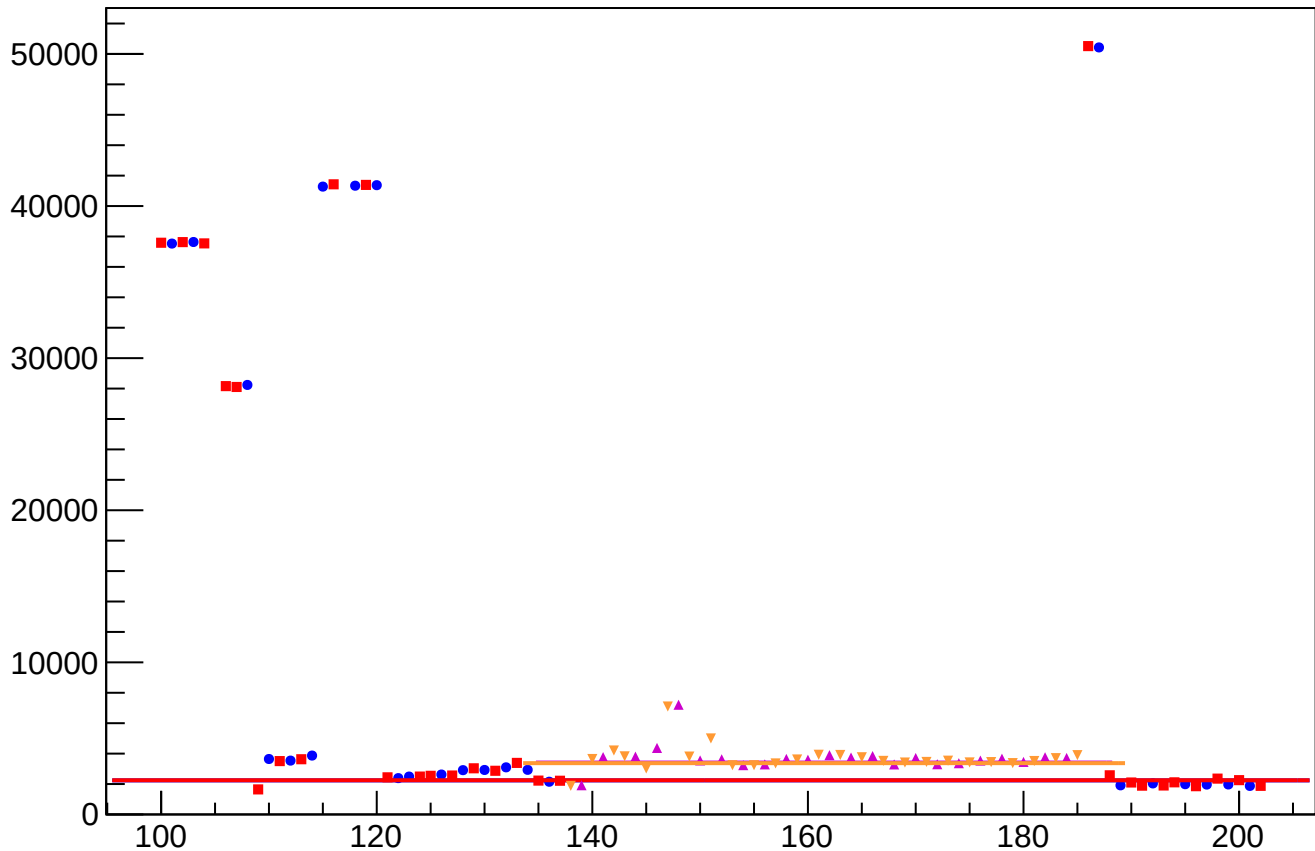
Right: 0.362 ± 0.524 $\chi^2/\text{NDF}: 65.1/52$

In: 0.460 ± 0.567 $\chi^2/\text{NDF}: 52.5/46$

Out: -0.907 ± 0.537 $\chi^2/\text{NDF}: 55.6/53$

All: -0.260 ± 0.390 $\chi^2/\text{NDF}: 111.1/100$

diff_bpm1p02bY_rms vs Slug, Sign Corrected



Right In: 2238.867 ± 0.541 $\chi^2/\text{NDF}: 5371816.5/23$

Left Out: 3372.958 ± 0.573 $\chi^2/\text{NDF}: 1656864.7/24$

Right Out: 2248.510 ± 0.508 $\chi^2/\text{NDF}: 5906041.2/28$

Left In: 3411.924 ± 0.596 $\chi^2/\text{NDF}: 1434523.7/22$

Left: 3391.680 ± 0.413 $\chi^2/\text{NDF}: 3093609.1/47$

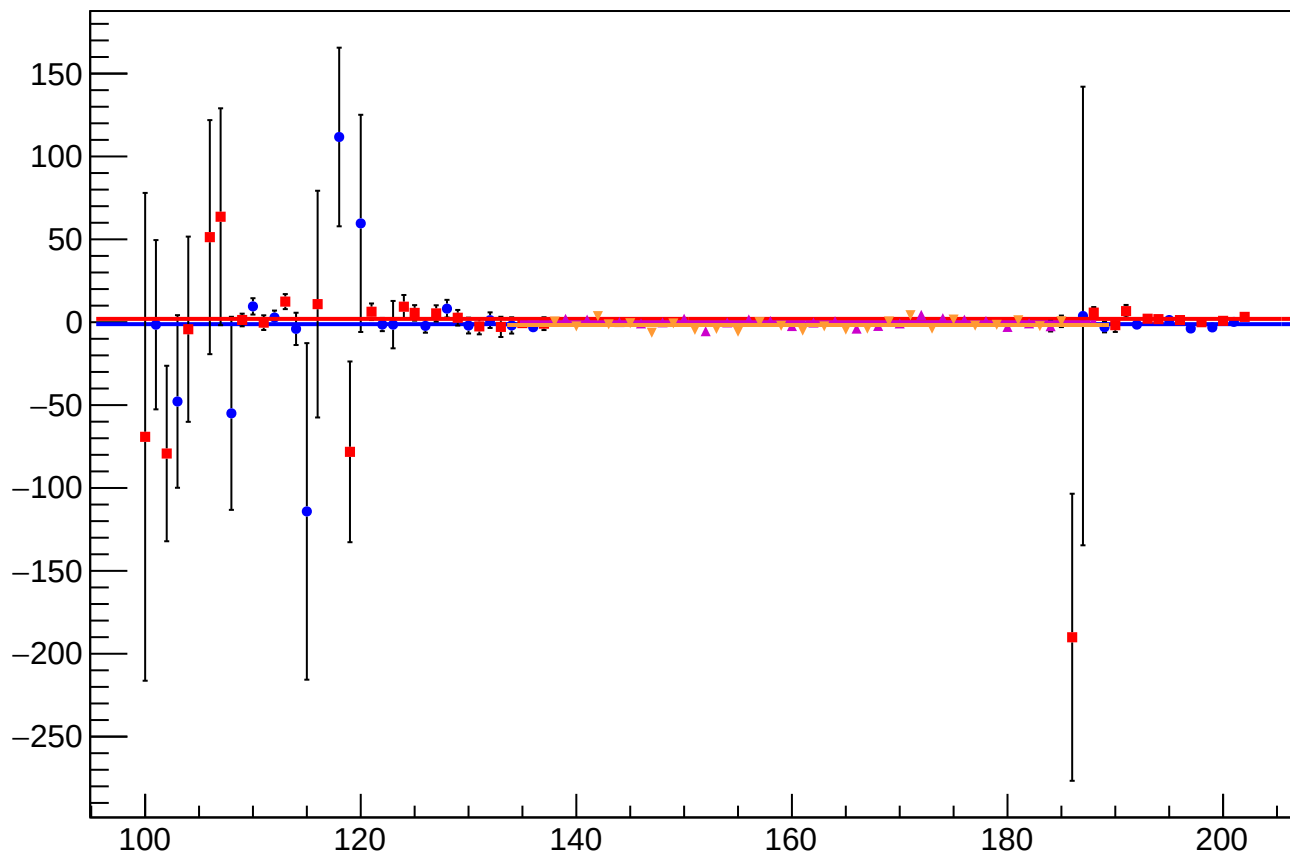
Right: 2243.998 ± 0.370 $\chi^2/\text{NDF}: 11278026.5/52$

In: 2769.230 ± 0.401 $\chi^2/\text{NDF}: 8928848.0/46$

Out: 2742.952 ± 0.380 $\chi^2/\text{NDF}: 9719467.2/53$

All: 2755.395 ± 0.276 $\chi^2/\text{NDF}: 18650579.0/100$

diff_bpm1p03aX_mean vs Slug, Sign Corrected



Right In: -1.168 ± 0.751 χ^2/NDF : 21.9/23

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

Right Out: 2.014 ± 0.713 χ^2/NDF : 27.4/28

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

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

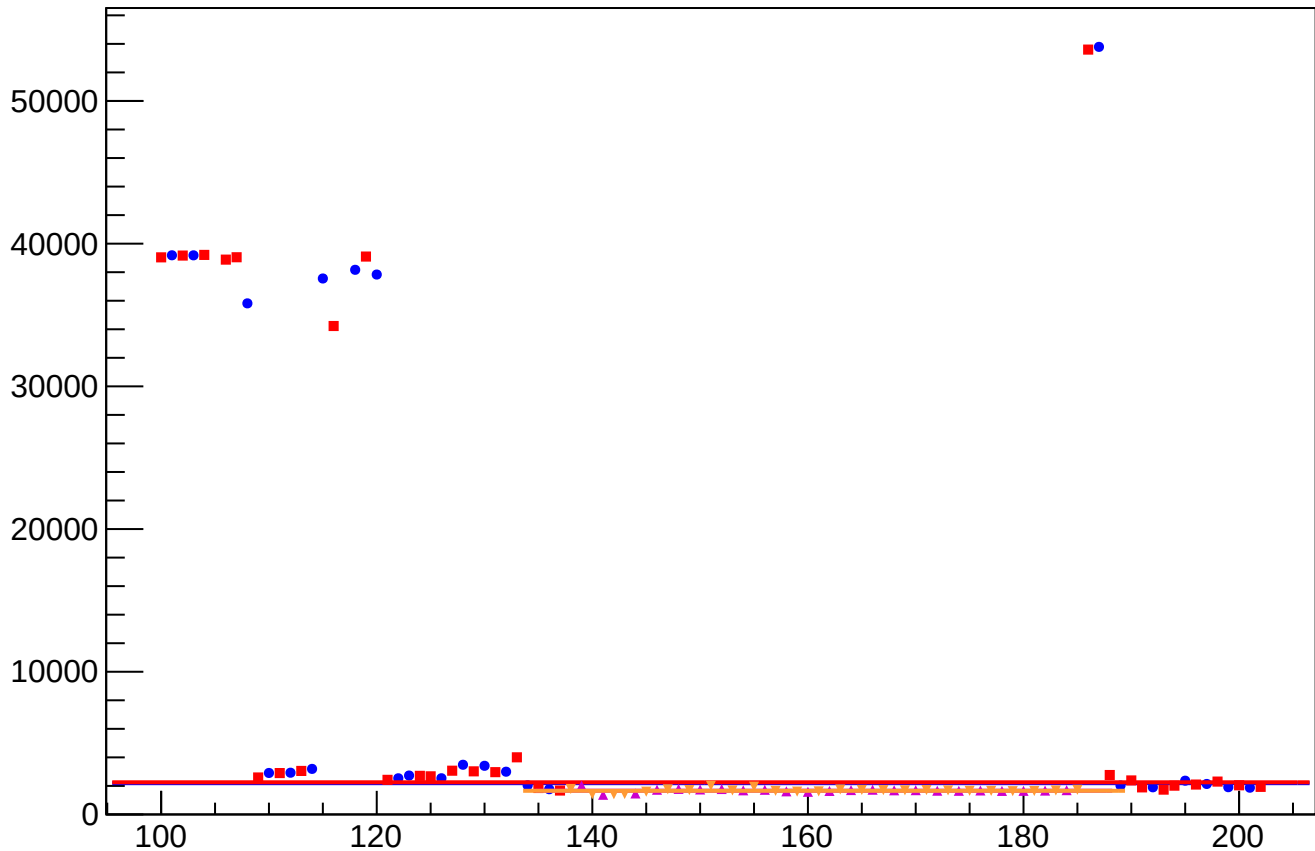
Right: 0.504 ± 0.517 χ^2/NDF : 58.7/52

In: -0.315 ± 0.354 χ^2/NDF : 51.8/46

Out: -0.830 ± 0.341 χ^2/NDF : 93.7/53

All: -0.582 ± 0.245 χ^2/NDF : 146.6/100

diff_bpm1p03aX_rms vs Slug, Sign Corrected



Right In: 2191.667 $\pm$ 0.531 χ^2 /NDF: 5429068.3/23

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

Right Out: 2254.478 $\pm$ 0.504 χ^2 /NDF: 6020813.6/28

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

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

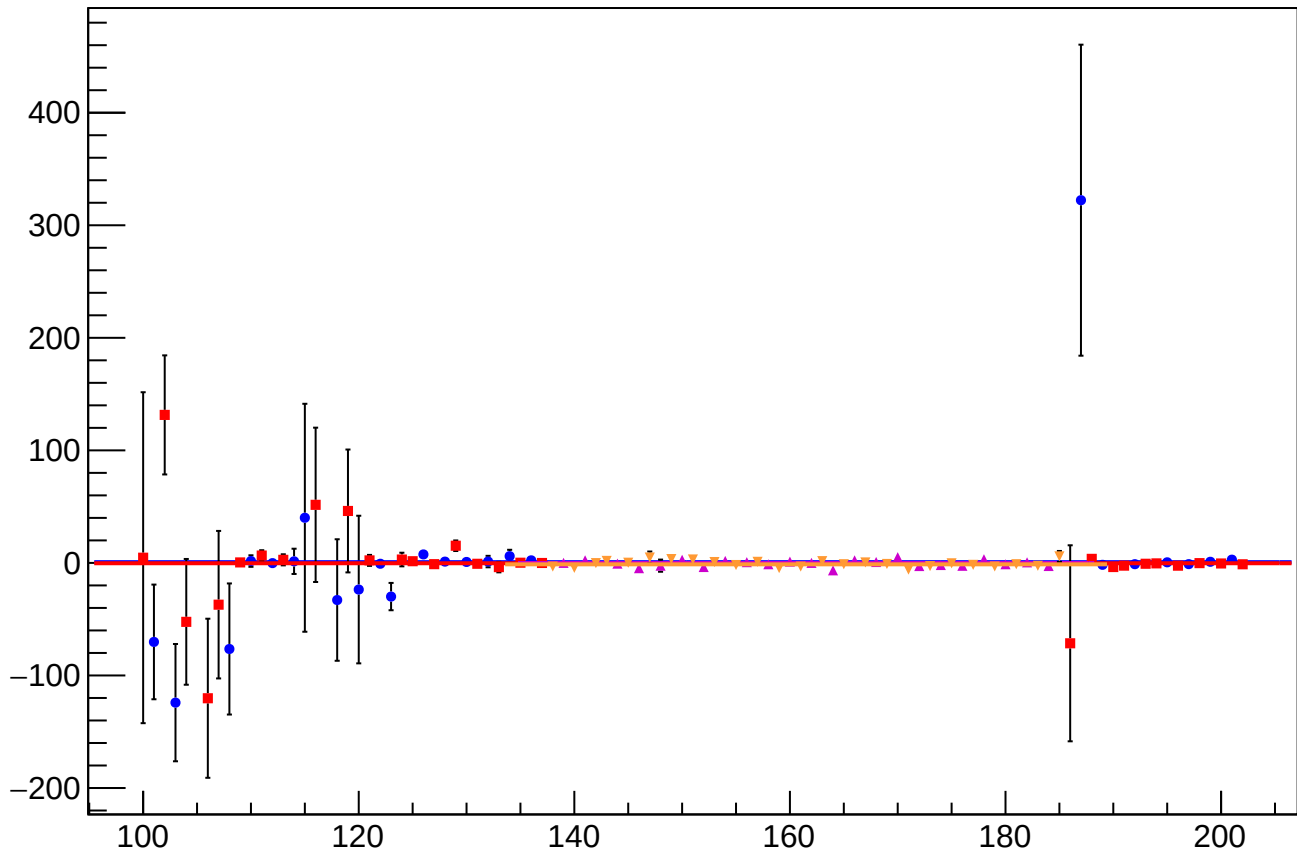
Right: 2224.679 $\pm$ 0.366 χ^2 /NDF: 11457240.5/52

In: 1780.863 $\pm$ 0.250 χ^2 /NDF: 6377749.3/46

Out: 1794.069 $\pm$ 0.241 χ^2 /NDF: 7324356.6/53

All: 1787.710 $\pm$ 0.174 χ^2 /NDF: 13703551.3/100

diff_bpm1p03aY_mean vs Slug, Sign Corrected



Right In: 0.666 $\pm$ 0.646 χ^2/NDF : 31.0/23

Left Out: -1.251 $\pm$ 0.535 χ^2/NDF : 21.7/24

Right Out: -0.292 $\pm$ 0.594 χ^2/NDF : 33.0/28

Left In: -0.098 $\pm$ 0.541 χ^2/NDF : 19.3/22

Left: -0.681 $\pm$ 0.380 χ^2/NDF : 43.3/47

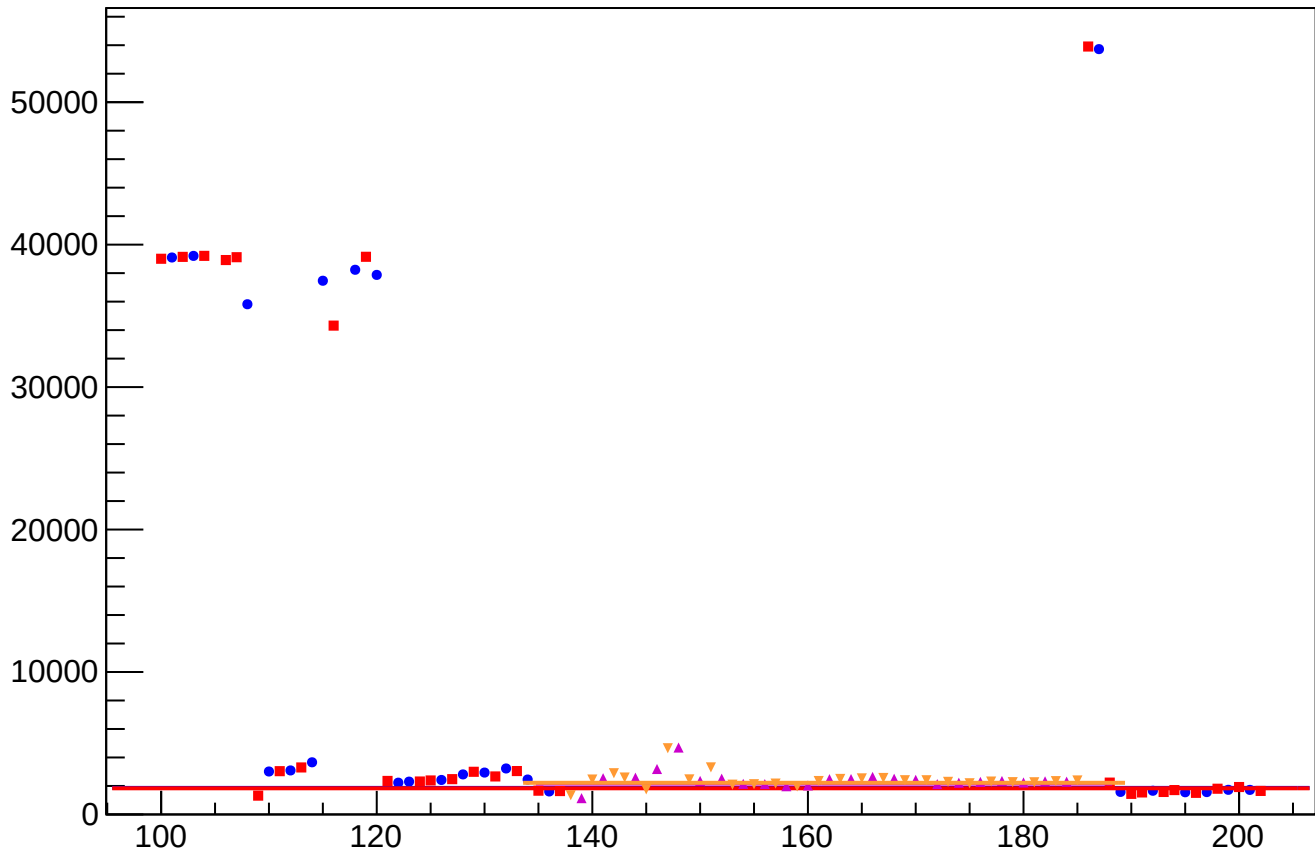
Right: 0.147 $\pm$ 0.437 χ^2/NDF : 65.1/52

In: 0.217 $\pm$ 0.415 χ^2/NDF : 51.1/46

Out: -0.821 $\pm$ 0.398 χ^2/NDF : 56.2/53

All: -0.324 $\pm$ 0.287 χ^2/NDF : 110.5/100

diff_bpm1p03aY_rms vs Slug, Sign Corrected



Right In: 1863.802 $\pm$ 0.457 χ^2 /NDF: 5815858.2/23

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

Right Out: 1836.160 $\pm$ 0.420 χ^2 /NDF: 6436957.8/28

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

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

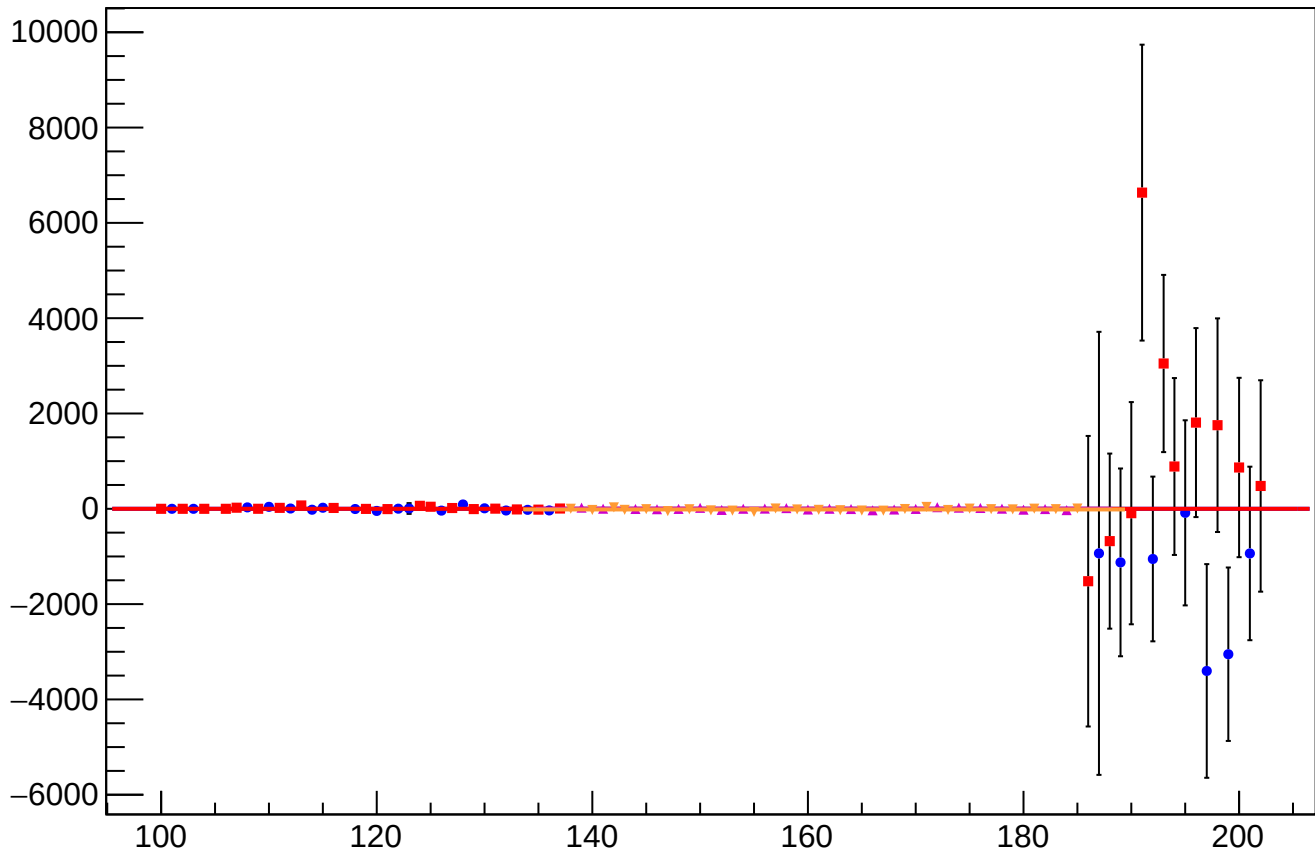
Right: 1848.831 $\pm$ 0.309 χ^2 /NDF: 12254800.3/52

In: 2043.352 $\pm$ 0.293 χ^2 /NDF: 8053863.9/46

Out: 2049.269 $\pm$ 0.281 χ^2 /NDF: 8325336.9/53

All: 2046.436 $\pm$ 0.203 χ^2 /NDF: 16379413.0/100

diff_cav4bX_mean vs Slug, Sign Corrected



Right In: 0.013 ± 0.017 $\chi^2/\text{NDF}: 22.7/23$

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

Right Out: -0.003 ± 0.016 $\chi^2/\text{NDF}: 25.1/28$

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

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

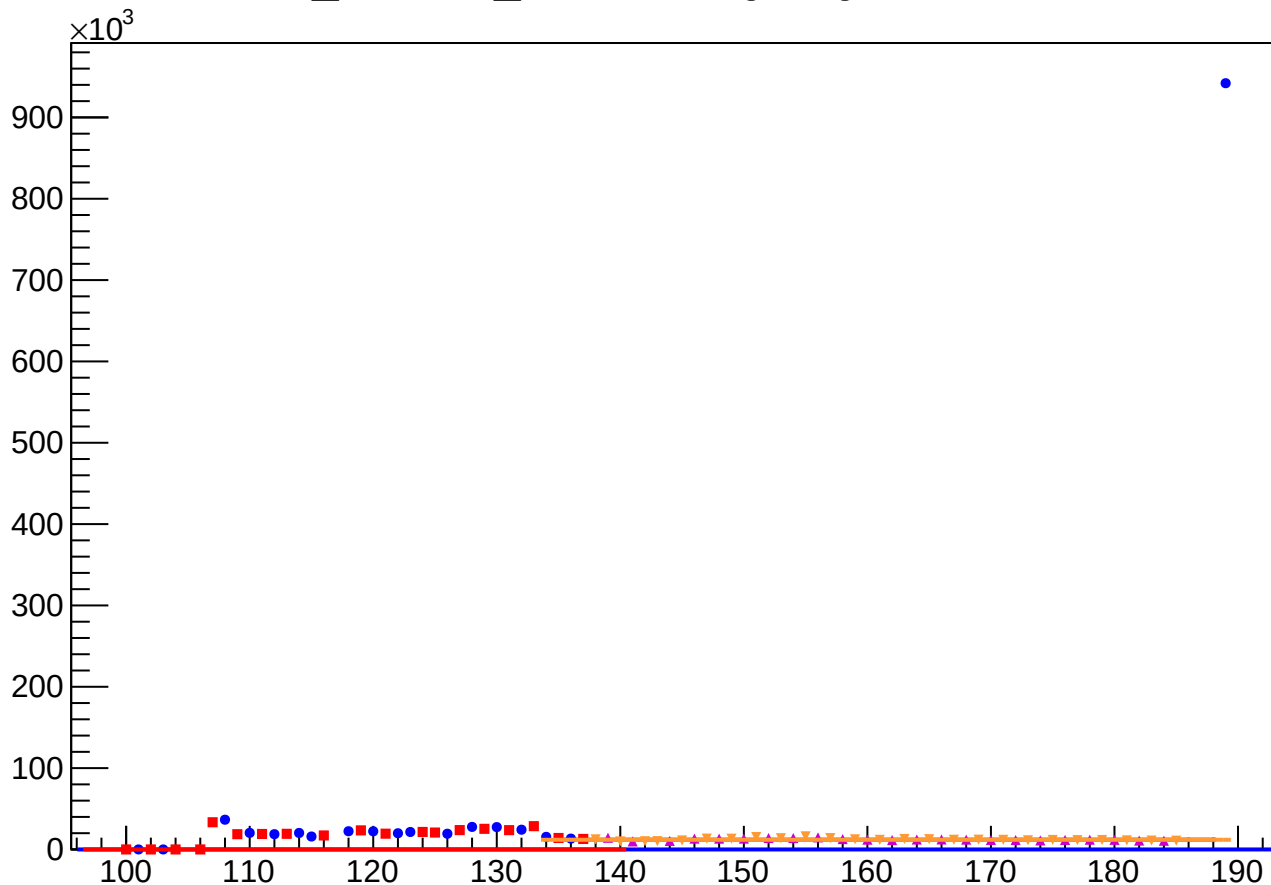
Right: 0.004 ± 0.012 $\chi^2/\text{NDF}: 48.3/52$

In: 0.013 ± 0.017 $\chi^2/\text{NDF}: 51.7/46$

Out: -0.004 ± 0.016 $\chi^2/\text{NDF}: 106.9/53$

All: 0.004 ± 0.012 $\chi^2/\text{NDF}: 159.2/100$

diff_cav4bX_rms vs Slug, Sign Corrected



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

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

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

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

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

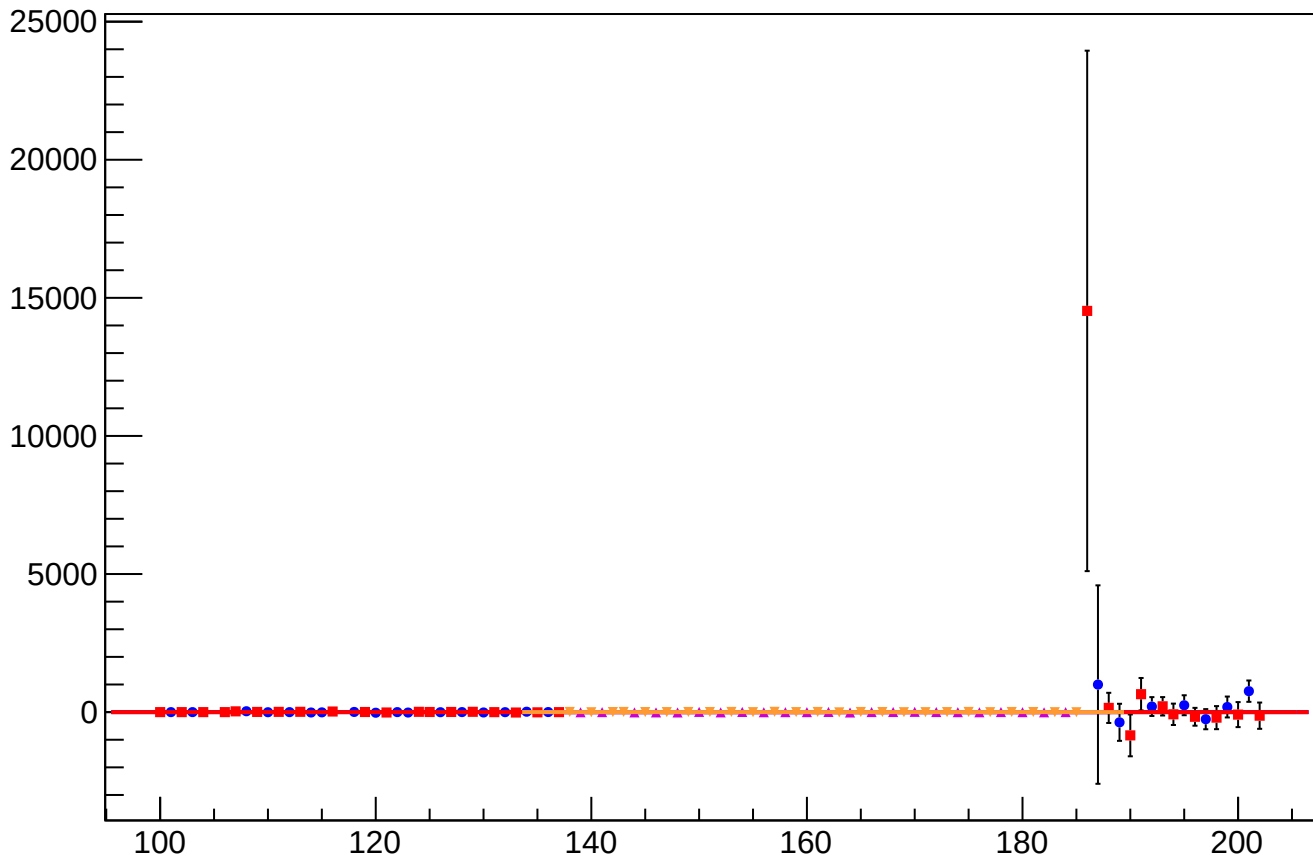
Right: 18.464 $\pm$ 0.008 χ^2 /NDF: 22189063.4/36

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

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

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

diff_cav4bY_mean vs Slug, Sign Corrected



Right In: 0.001 $\pm$ 0.009 χ^2 /NDF: 18.7/23

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

Right Out: -0.014 $\pm$ 0.009 χ^2 /NDF: 24.7/28

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

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

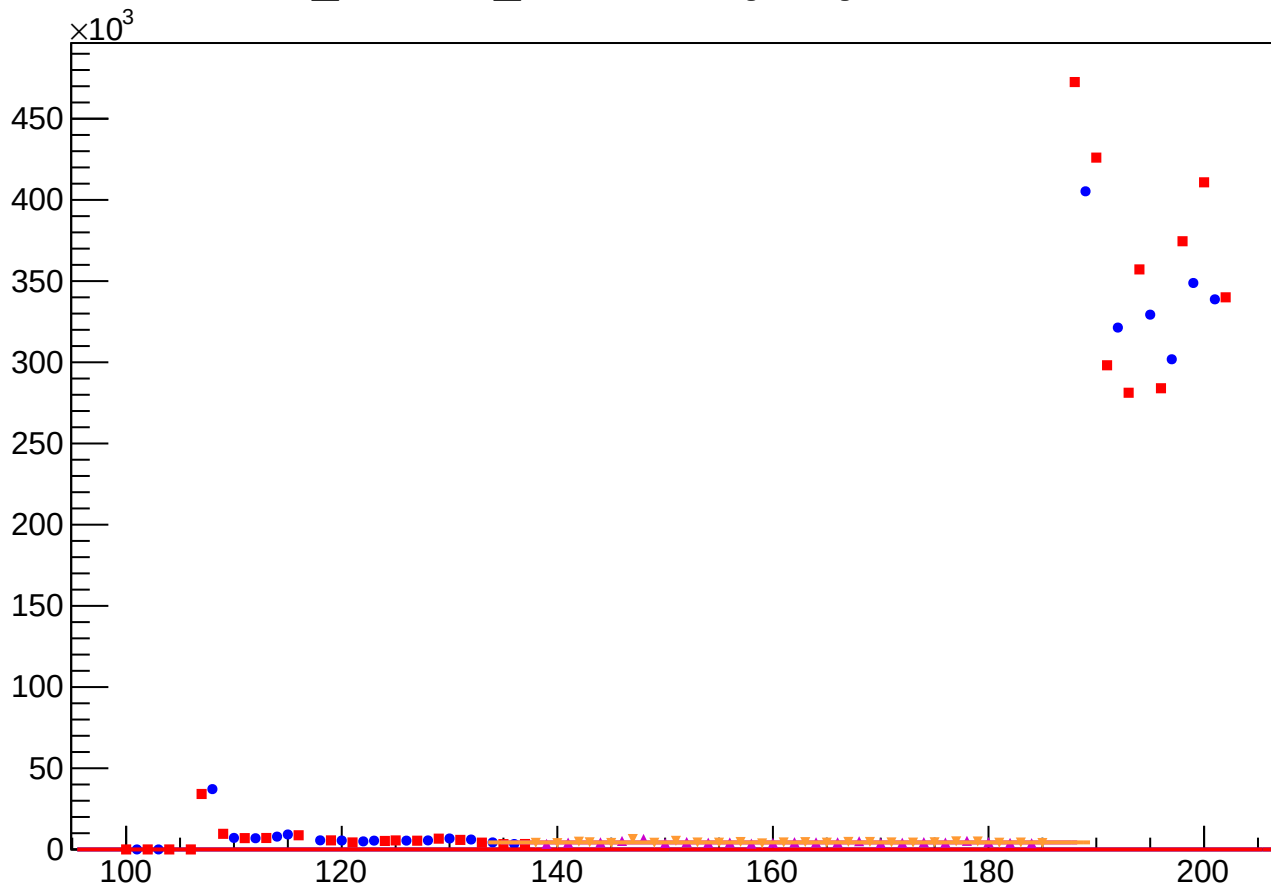
Right: -0.007 $\pm$ 0.006 χ^2 /NDF: 44.8/52

In: 0.001 $\pm$ 0.009 χ^2 /NDF:55.1/46

Out: -0.014 $\pm$ 0.009 χ^2 /NDF:45.7/53

All: -0.007 $\pm$ 0.006 χ^2 /NDF: 102.2/100

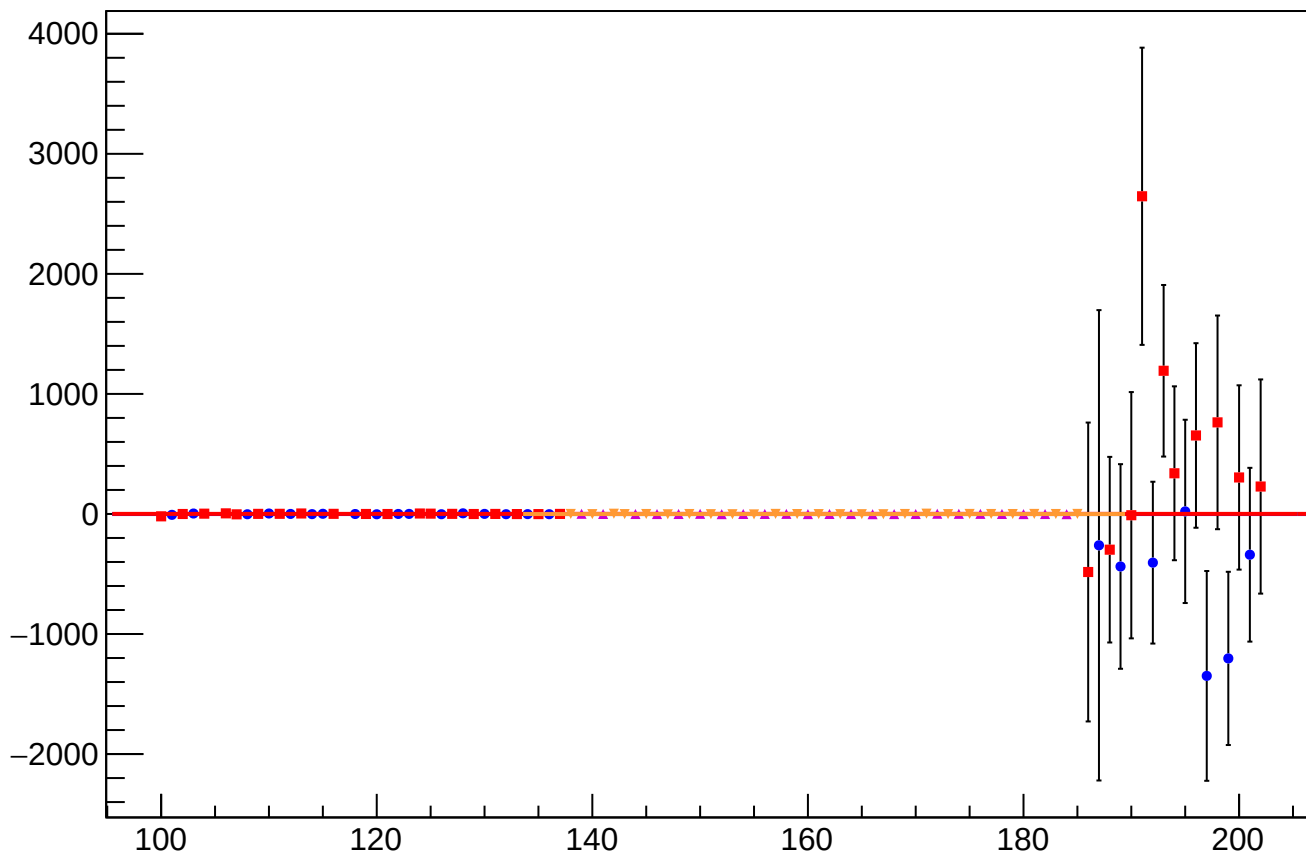
diff_cav4bY_rms vs Slug, Sign Corrected



Right In: 9.940 $\pm$ 0.007 χ^2 /NDF: 19822705.1/22
 Left Out: 4349.005 $\pm$ 0.723 χ^2 /NDF:383895.7/24
 Right Out: 9.855 $\pm$ 0.006 χ^2 /NDF: 22682034.9/27
 Left In: 4321.572 $\pm$ 0.741 χ^2 /NDF:514603.2/22

Left: 4335.639 $\pm$ 0.518 χ^2 /NDF: 899200.9/47
 Right: 9.895 $\pm$ 0.004 χ^2 /NDF: 42504829.6/50
 In: 10.272 $\pm$ 0.007 χ^2 /NDF:54154436.7/45
 Out: 10.166 $\pm$ 0.006 χ^2 /NDF:59111189.7/52
 All: 10.216 $\pm$ 0.004 χ^2 /NDF: 113265766.7/98

diff_cav4cX_mean vs Slug, Sign Corrected



Right In: -0.715 ± 0.483 χ^2/NDF : 28.7/23

Left Out: -0.775 ± 0.165 χ^2/NDF : 58.5/24

Right Out: 0.640 ± 0.501 χ^2/NDF : 22.6/28

Left In: 0.018 ± 0.171 χ^2/NDF : 29.4/22

Left: -0.393 ± 0.119 χ^2/NDF : 99.1/47

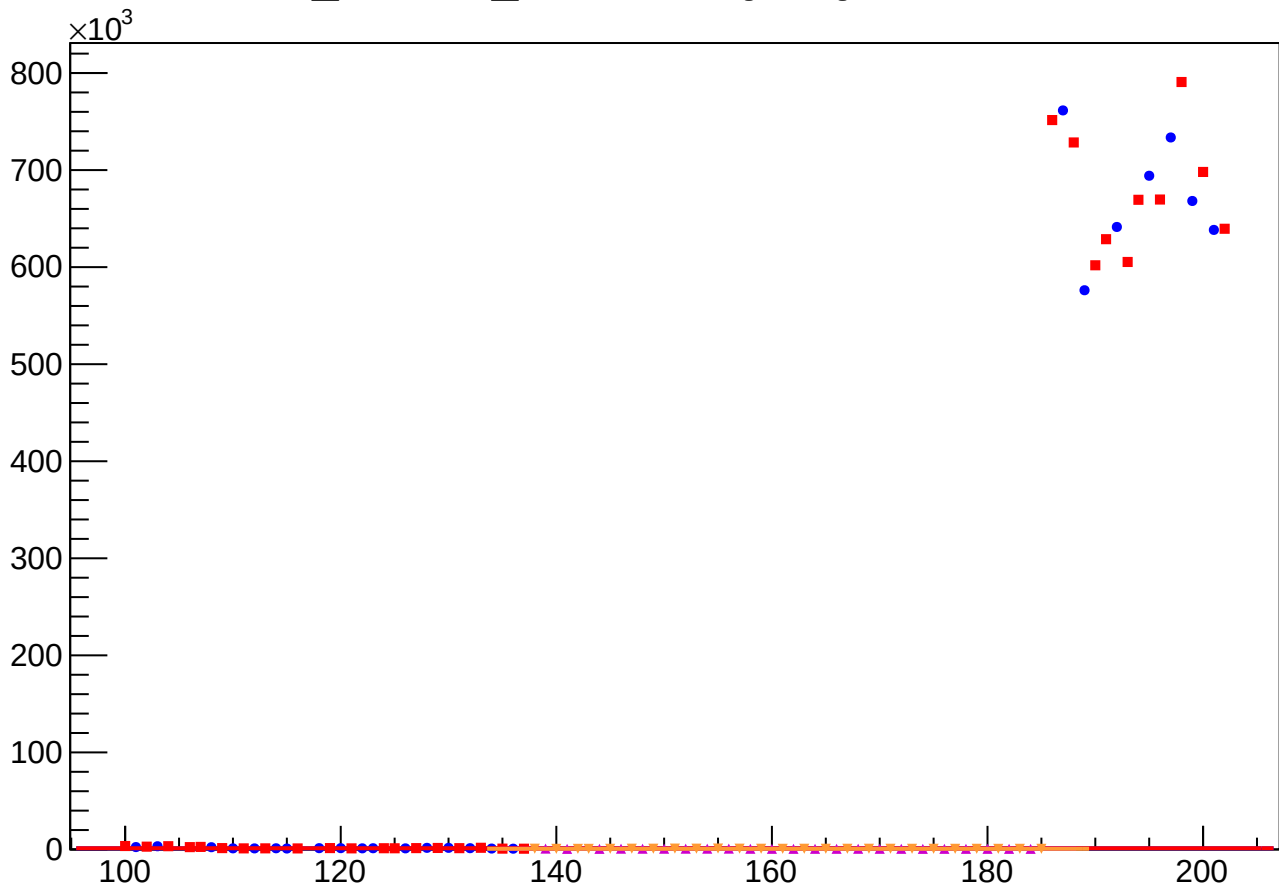
Right: -0.063 ± 0.348 χ^2/NDF : 55.1/52

In: -0.063 ± 0.161 χ^2/NDF : 60.2/46

Out: -0.637 ± 0.156 χ^2/NDF : 88.3/53

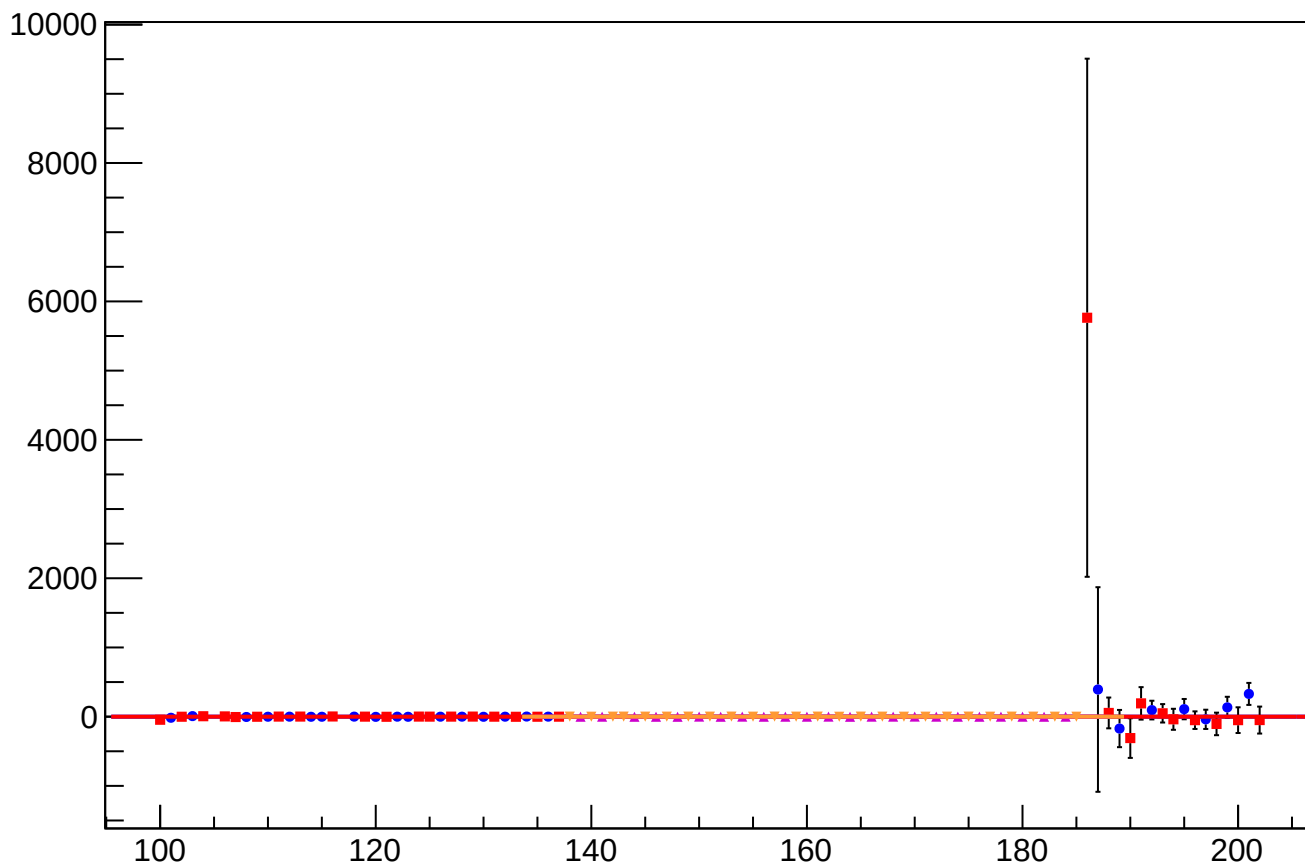
All: -0.359 ± 0.112 χ^2/NDF : 155.1/100

diff_cav4cX_rms vs Slug, Sign Corrected



Right In: 1168.764 $\pm$ 0.342	χ^2/NDF : 10901246.9/23	Left: 703.867 $\pm$ 0.084	χ^2/NDF : 726141.0/47
Left Out: 700.984 $\pm$ 0.116	χ^2/NDF : 392855.4/24	Right: 1207.976 $\pm$ 0.246	χ^2/NDF : 25070459.4/52
Right Out: 1250.225 $\pm$ 0.355	χ^2/NDF : 14141841.5/28	In: 758.265 $\pm$ 0.114	χ^2/NDF : 12857595.5/46
Left In: 706.971 $\pm$ 0.121	χ^2/NDF : 332011.4/22	Out: 754.387 $\pm$ 0.111	χ^2/NDF : 16700549.8/53
		All: 756.269 $\pm$ 0.079	χ^2/NDF : 29558742.1/10

diff_cav4cY_mean vs Slug, Sign Corrected



Right In: -0.058 ± 0.269 χ^2/NDF : 25.8/23

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

Right Out: -0.280 ± 0.264 χ^2/NDF : 25.7/28

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

Left: 0.059 ± 0.088 χ^2/NDF : 57.1/47

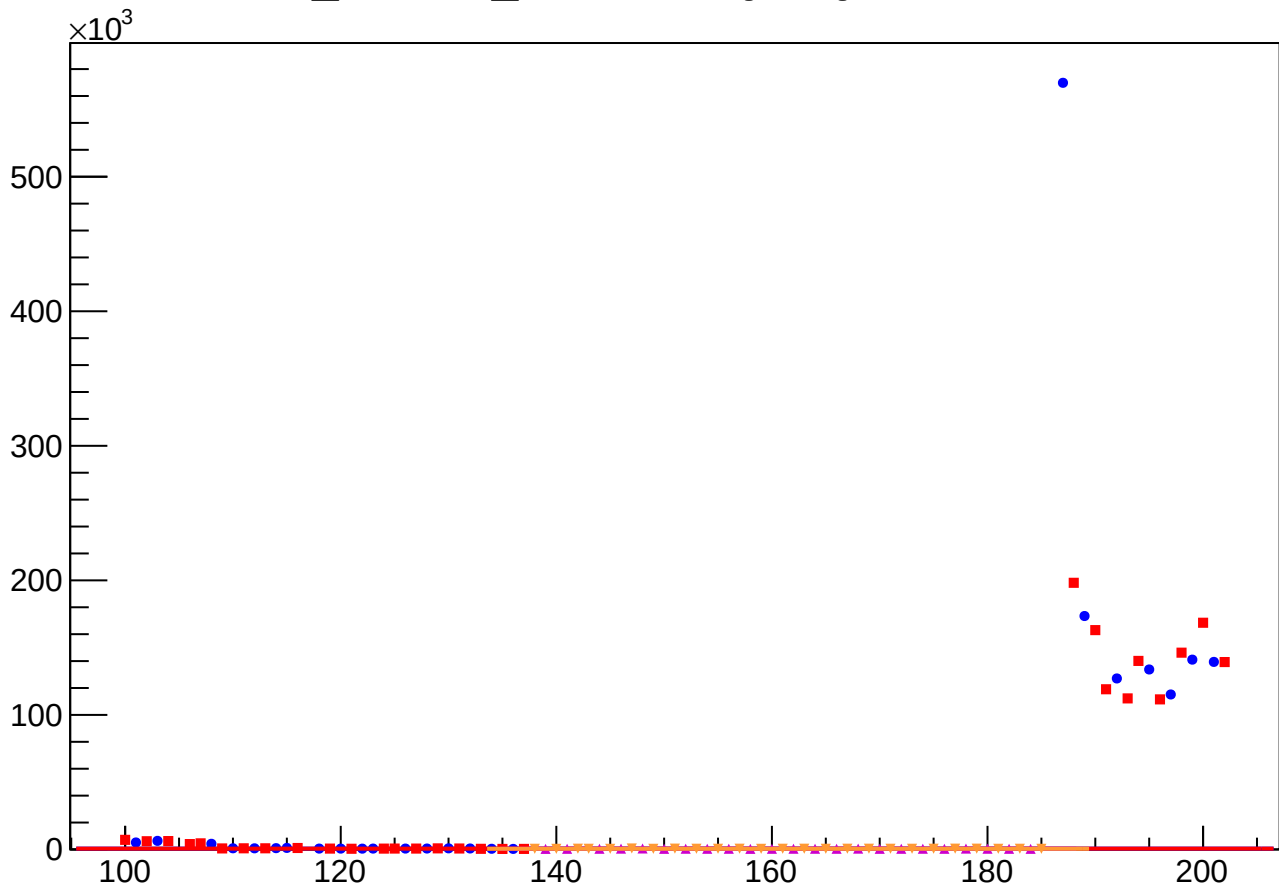
Right: -0.171 ± 0.189 χ^2/NDF : 51.8/52

In: -0.113 ± 0.114 χ^2/NDF : 60.8/46

Out: 0.142 ± 0.111 χ^2/NDF : 46.8/53

All: 0.018 ± 0.080 χ^2/NDF : 110.2/100

diff_cav4cY_rms vs Slug, Sign Corrected



Right In: 611.787 $\pm$ 0.190 χ^2 /NDF: 12230348.0/23

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

Right Out: 601.713 $\pm$ 0.187 χ^2 /NDF: 15155283.9/27

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

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

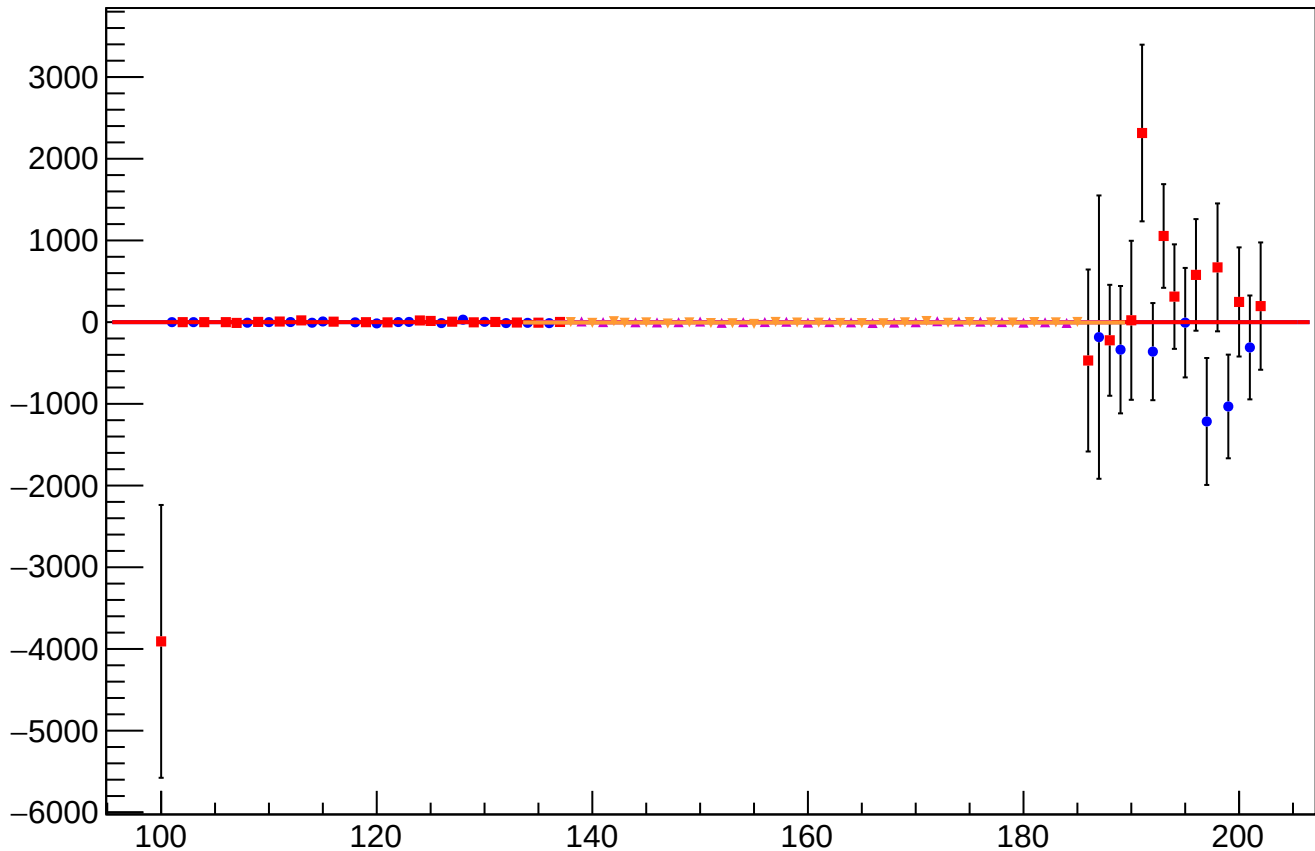
Right: 606.664 $\pm$ 0.133 χ^2 /NDF: 27387058.7/51

In: 537.120 $\pm$ 0.081 χ^2 /NDF:12846055.3/46

Out: 536.286 $\pm$ 0.079 χ^2 /NDF:15634466.7/52

All: 536.692 $\pm$ 0.056 χ^2 /NDF: 28480576.7/99

diff_cav4dX_mean vs Slug, Sign Corrected



Right In: -0.022 $\pm$ 0.021 χ^2 /NDF: 21.9/23

Left Out: -4.480 $\pm$ 0.957 χ^2 /NDF:58.4/24

Right Out: 0.027 $\pm$ 0.020 χ^2 /NDF: 27.0/28

Left In: 0.183 $\pm$ 0.994 χ^2 /NDF:29.5/22

Left: -2.236 $\pm$ 0.689 χ^2 /NDF: 99.3/47

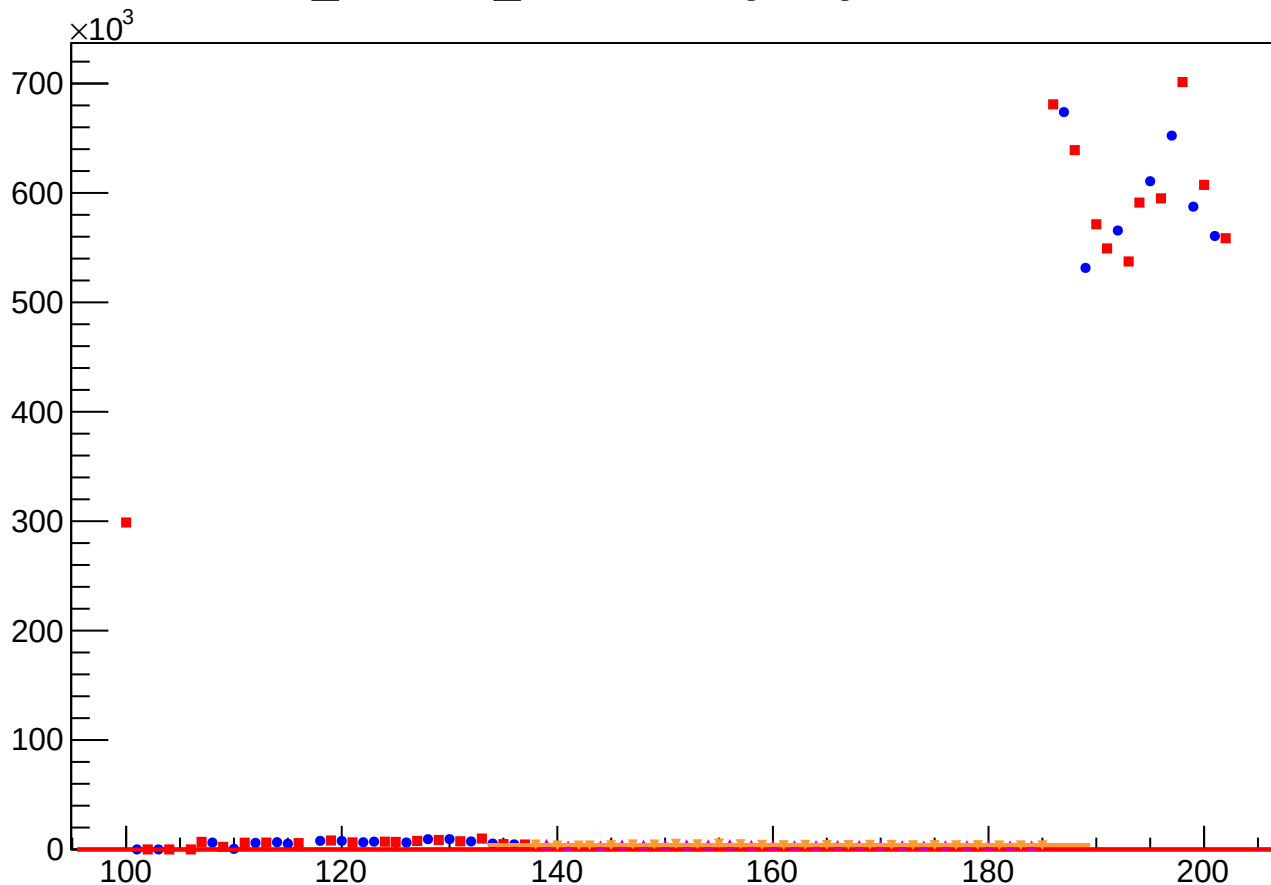
Right: 0.004 $\pm$ 0.014 χ^2 /NDF: 51.7/52

In: -0.022 $\pm$ 0.021 χ^2 /NDF:51.4/46

Out: 0.025 $\pm$ 0.020 χ^2 /NDF:107.5/53

All: 0.003 $\pm$ 0.014 χ^2 /NDF: 161.5/100

diff_cav4dX_rms vs Slug, Sign Corrected



Right In: 17.343 $\pm$ 0.015 χ^2/NDF : 19842090.3/23

Left Out: 4075.147 $\pm$ 0.677 χ^2/NDF : 417511.0/24

Right Out: 17.272 $\pm$ 0.014 χ^2/NDF : 23418492.1/28

Left In: 4113.993 $\pm$ 0.703 χ^2/NDF : 349160.6/22

Left: 4093.835 $\pm$ 0.488 χ^2/NDF : 768256.5/47

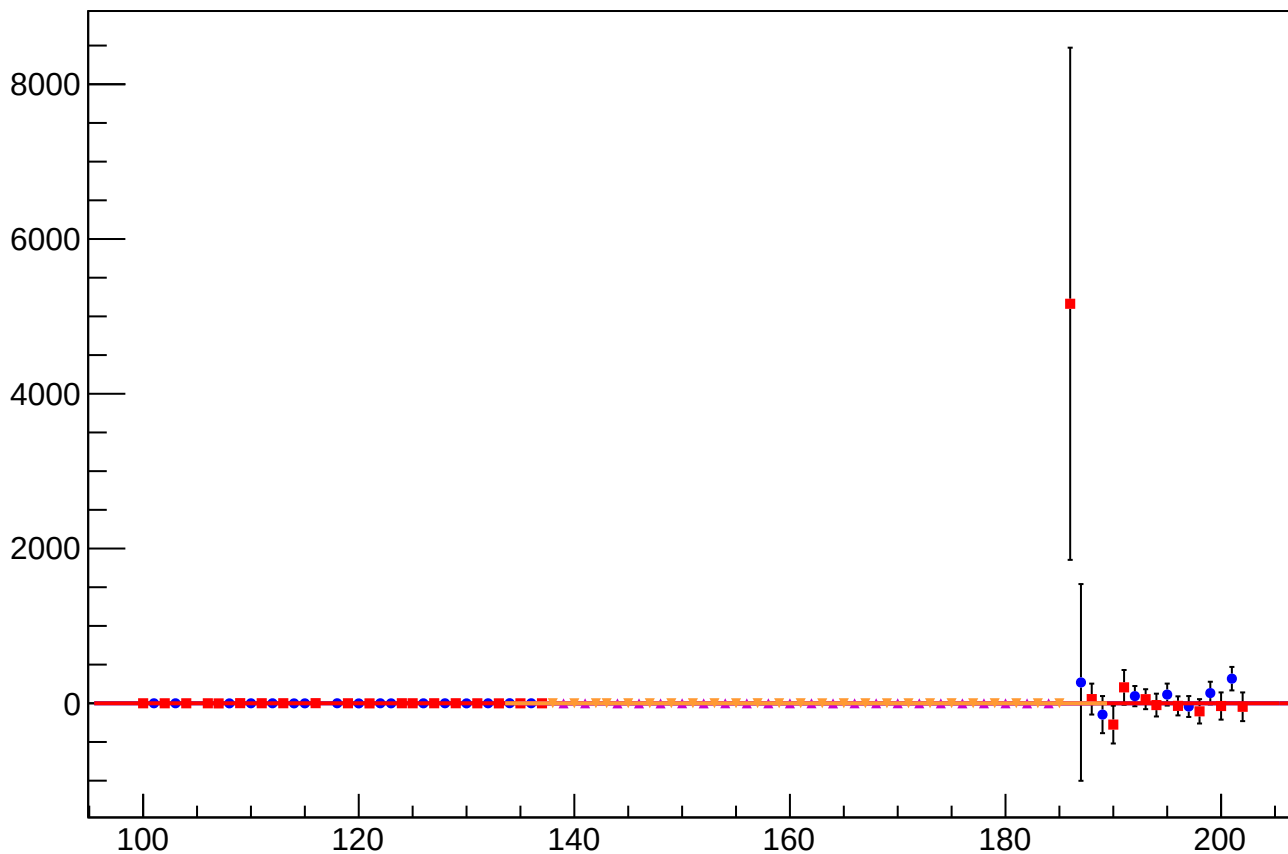
Right: 17.305 $\pm$ 0.010 χ^2/NDF : 43260594.6/52

In: 19.135 $\pm$ 0.015 χ^2/NDF : 54144569.8/46

Out: 19.003 $\pm$ 0.014 χ^2/NDF : 59771477.9/53

All: 19.066 $\pm$ 0.010 χ^2/NDF : 113916089.5/10

diff_cav4dY_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.002 χ^2 /NDF: 20.5/23

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

Right Out: -0.001 $\pm$ 0.002 χ^2 /NDF: 23.6/28

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

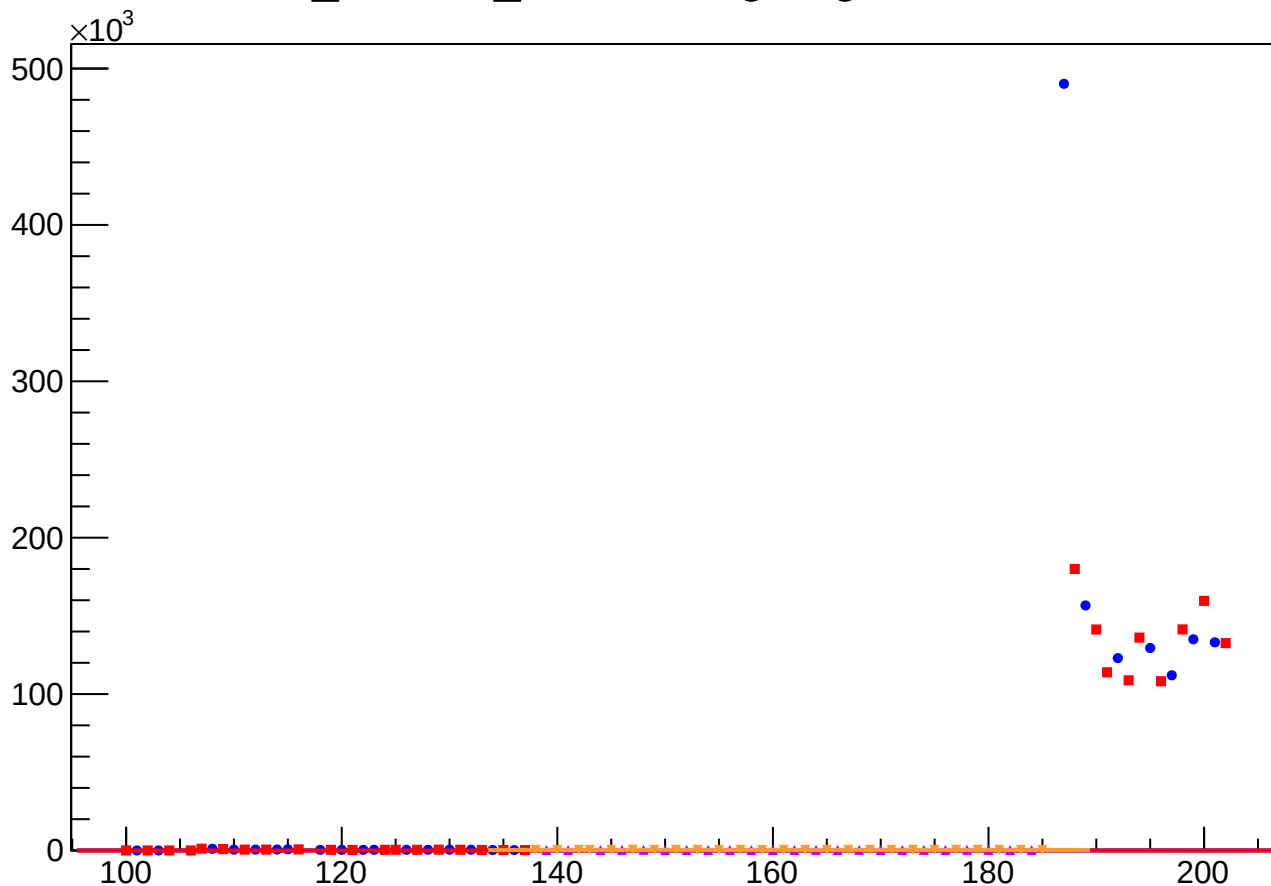
Right: -0.000 $\pm$ 0.001 χ^2 /NDF: 44.2/52

In: 0.000 $\pm$ 0.002 χ^2 /NDF:56.1/46

Out: -0.001 $\pm$ 0.002 χ^2 /NDF:44.7/53

All: -0.000 $\pm$ 0.001 χ^2 /NDF: 100.9/100

diff_cav4dY_rms vs Slug, Sign Corrected



Right In: 1.699 $\pm$ 0.001 χ^2 /NDF: 20211472.5/23

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

Right Out: 1.728 $\pm$ 0.001 χ^2 /NDF: 22457503.4/27

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

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

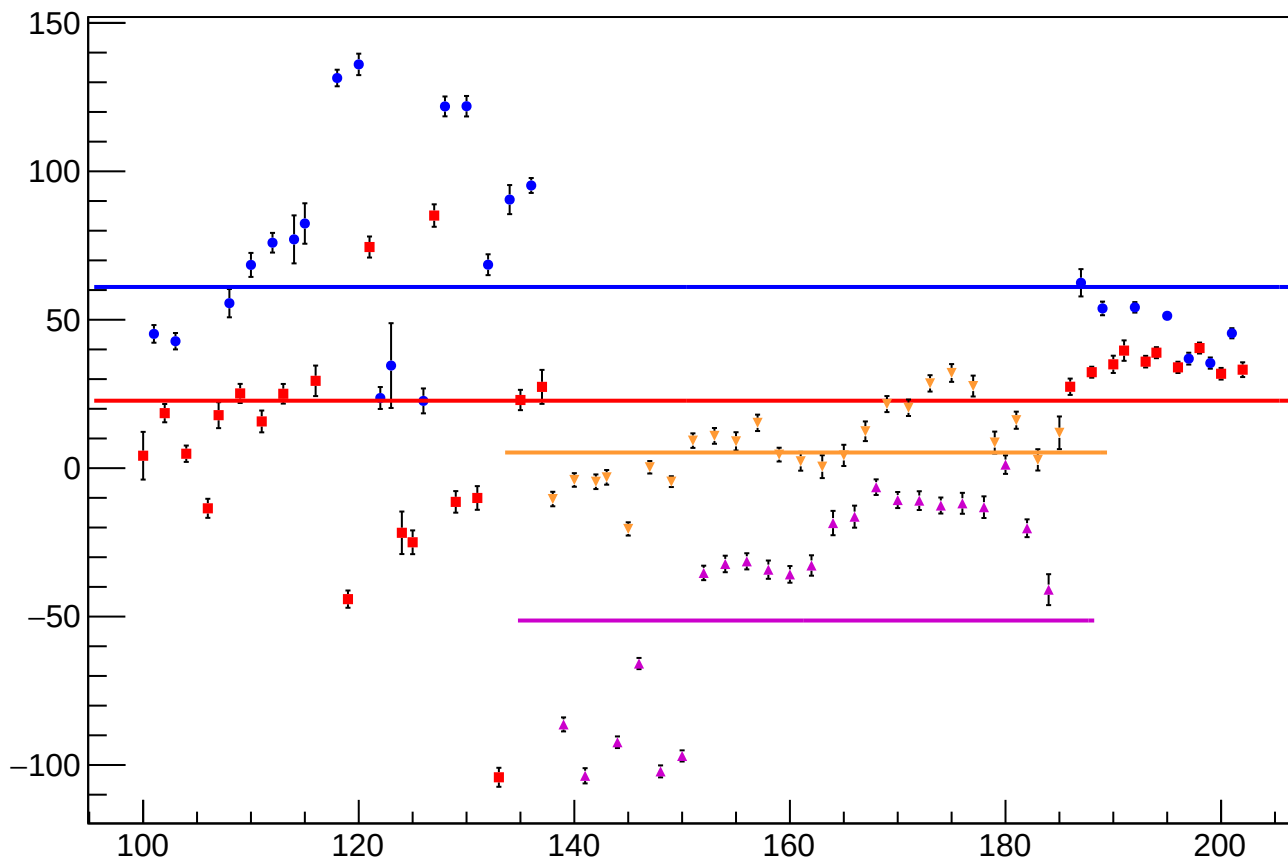
Right: 1.714 $\pm$ 0.001 χ^2 /NDF: 42669193.1/51

In: 1.913 $\pm$ 0.001 χ^2 /NDF:54353602.5/46

Out: 1.937 $\pm$ 0.001 χ^2 /NDF:58665003.1/52

All: 1.925 $\pm$ 0.001 χ^2 /NDF: 113018752.2/99

diff_bpm0i01X_mean vs Slug, Sign Corrected



Right In: 61.042 ± 0.572 $\chi^2/\text{NDF}: 2707.2/23$

Left Out: 5.276 ± 0.544 $\chi^2/\text{NDF}: 556.2/24$

Right Out: 22.726 ± 0.529 $\chi^2/\text{NDF}: 3464.2/28$

Left In: -51.328 ± 0.558 $\chi^2/\text{NDF}: 4257.8/22$

Left: -22.298 ± 0.390 $\chi^2/\text{NDF}: 10084.6/47$

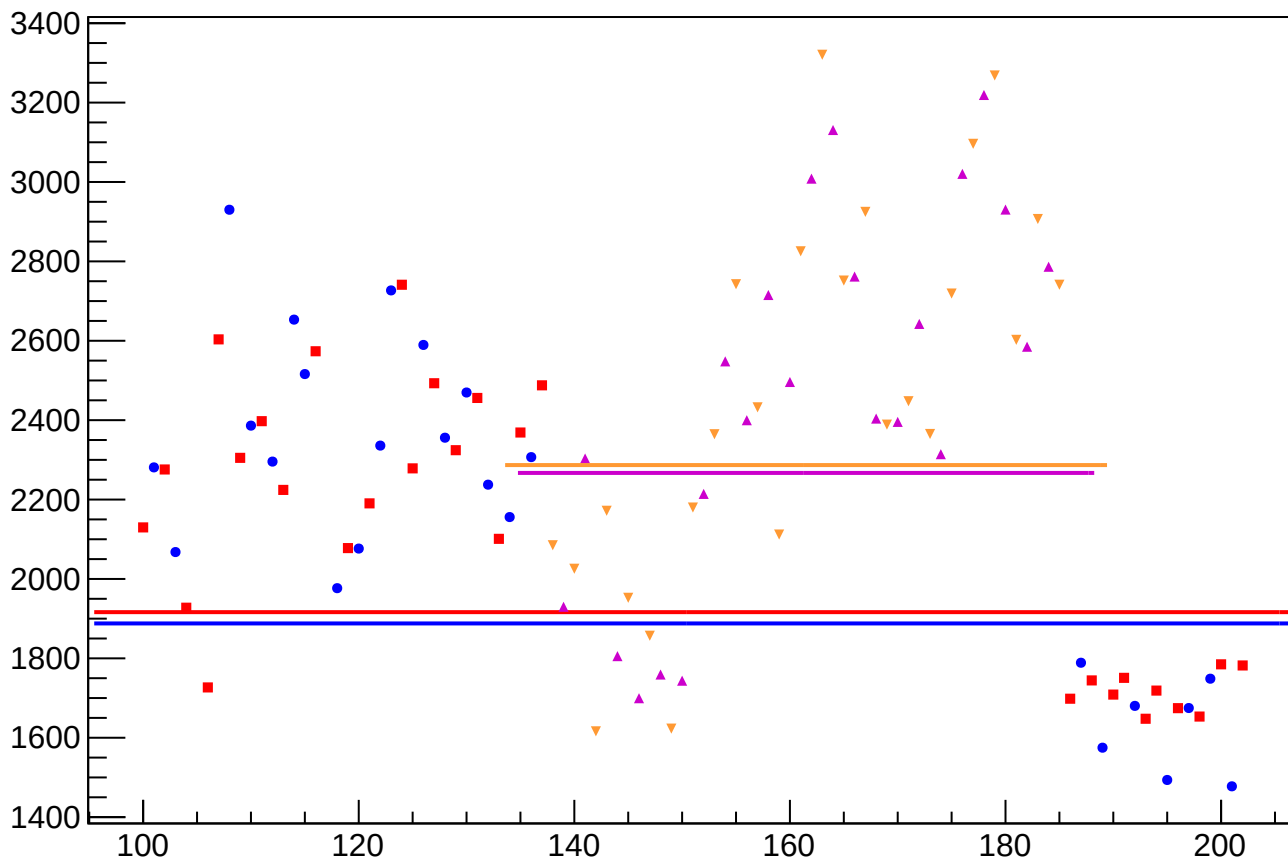
Right: 40.398 ± 0.388 $\chi^2/\text{NDF}: 8592.5/52$

In: 3.542 ± 0.399 $\chi^2/\text{NDF}: 26742.0/46$

Out: 14.250 ± 0.379 $\chi^2/\text{NDF}: 4549.3/53$

All: 9.173 ± 0.275 $\chi^2/\text{NDF}: 31669.3/100$

diff_bpm0i01X_rms vs Slug, Sign Corrected



Right In: 1887.946 ± 0.404 $\chi^2/\text{NDF}: 837862.2/23$

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

Right Out: 1916.389 ± 0.374 $\chi^2/\text{NDF}: 622529.0/28$

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

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

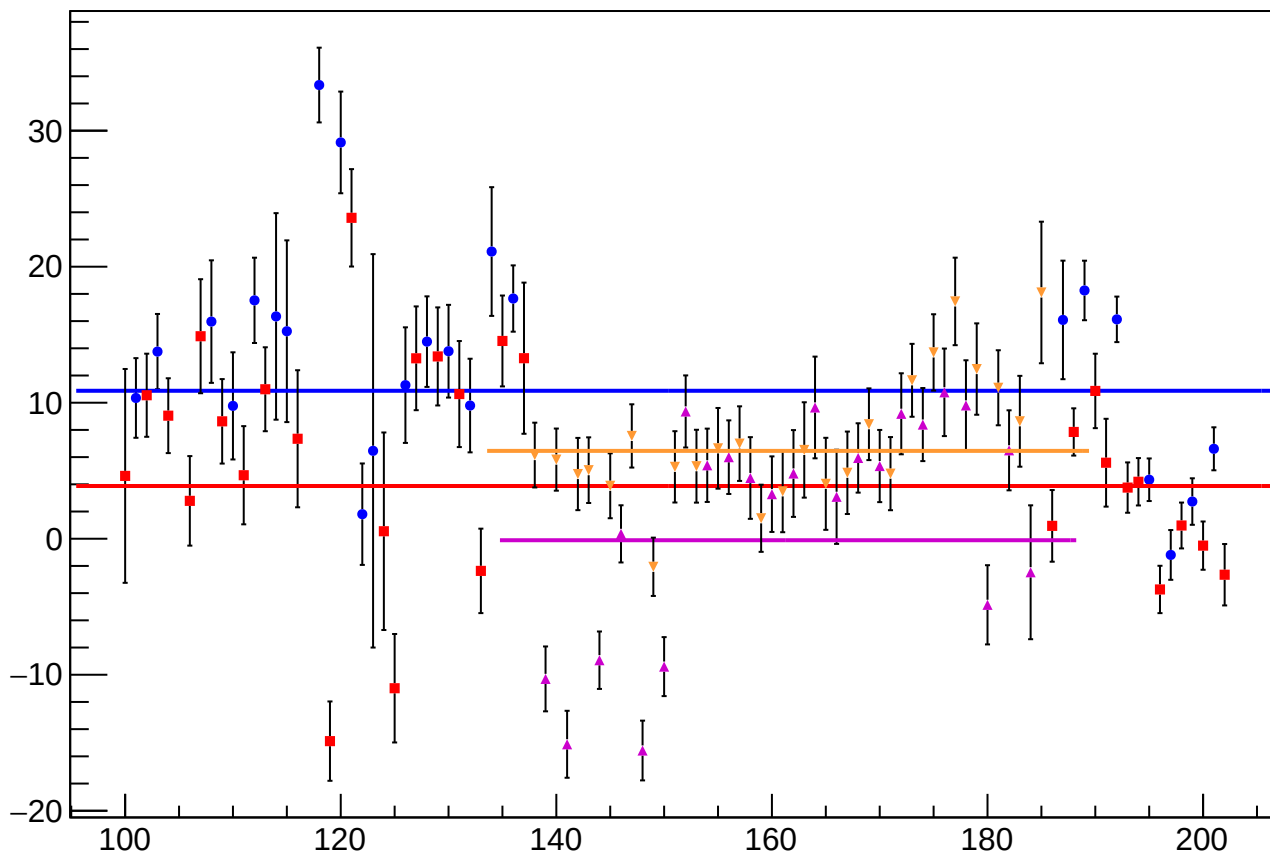
Right: 1903.271 ± 0.274 $\chi^2/\text{NDF}: 1463059.6/52$

In: 2081.960 ± 0.282 $\chi^2/\text{NDF}: 2601544.4/46$

Out: 2096.335 ± 0.268 $\chi^2/\text{NDF}: 2459775.4/53$

All: 2089.519 ± 0.194 $\chi^2/\text{NDF}: 5062682.2/100$

diff_bpm0i01Y_mean vs Slug, Sign Corrected



Right In: 10.878 ± 0.544 $\chi^2/\text{NDF}: 232.7/23$

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

Right Out: 3.876 ± 0.502 $\chi^2/\text{NDF}: 192.3/28$

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

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

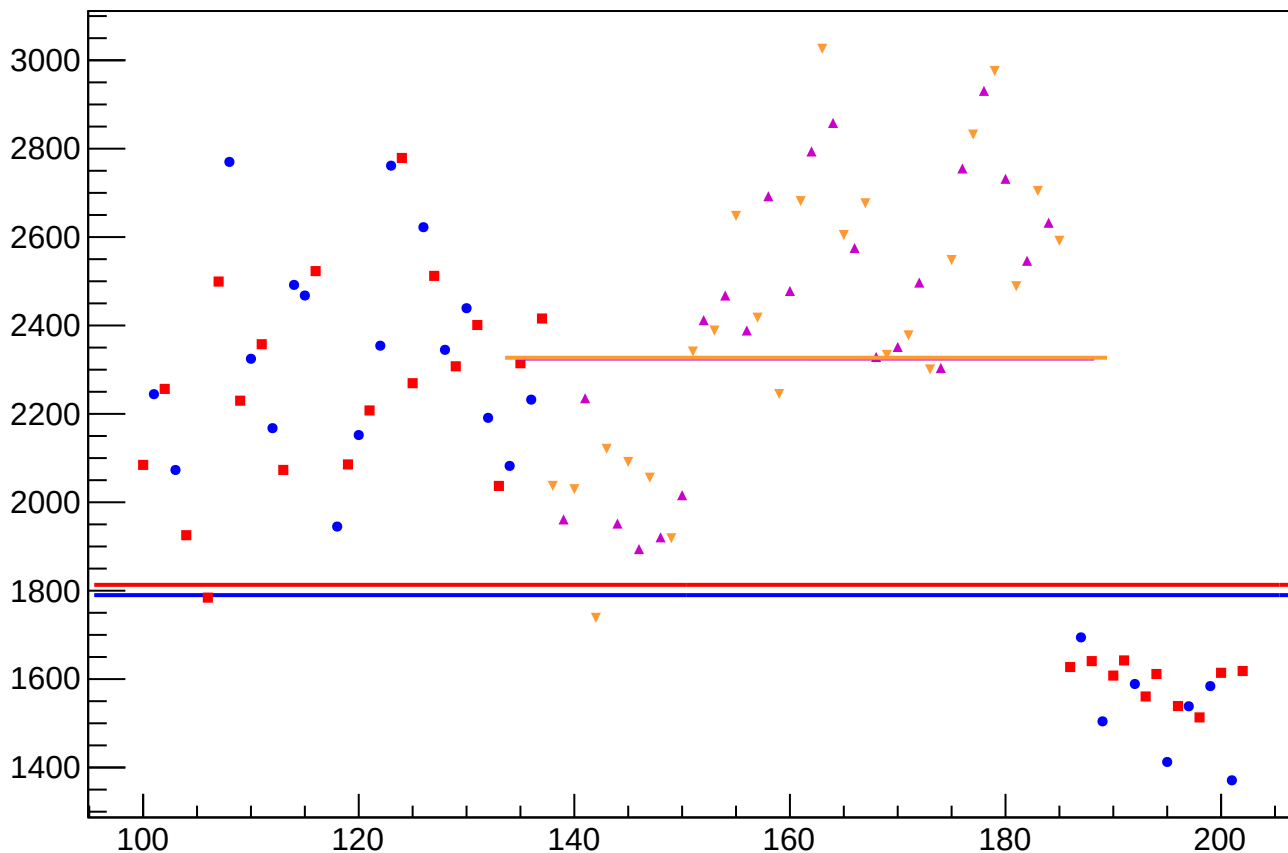
Right: 7.098 ± 0.369 $\chi^2/\text{NDF}: 514.5/52$

In: 5.594 ± 0.392 $\chi^2/\text{NDF}: 663.5/46$

Out: 5.056 ± 0.370 $\chi^2/\text{NDF}: 263.1/53$

All: 5.309 ± 0.269 $\chi^2/\text{NDF}: 927.6/100$

diff_bpm0i01Y_rms vs Slug, Sign Corrected



Right In: 1789.952 $\pm$ 0.385 χ^2 /NDF: 1040359.5/23

Left Out: 2327.044 $\pm$ 0.387 χ^2 /NDF: 646706.7/24

Right Out: 1813.215 $\pm$ 0.355 χ^2 /NDF: 833046.5/28

Left In: 2325.175 $\pm$ 0.400 χ^2 /NDF: 610729.2/22

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

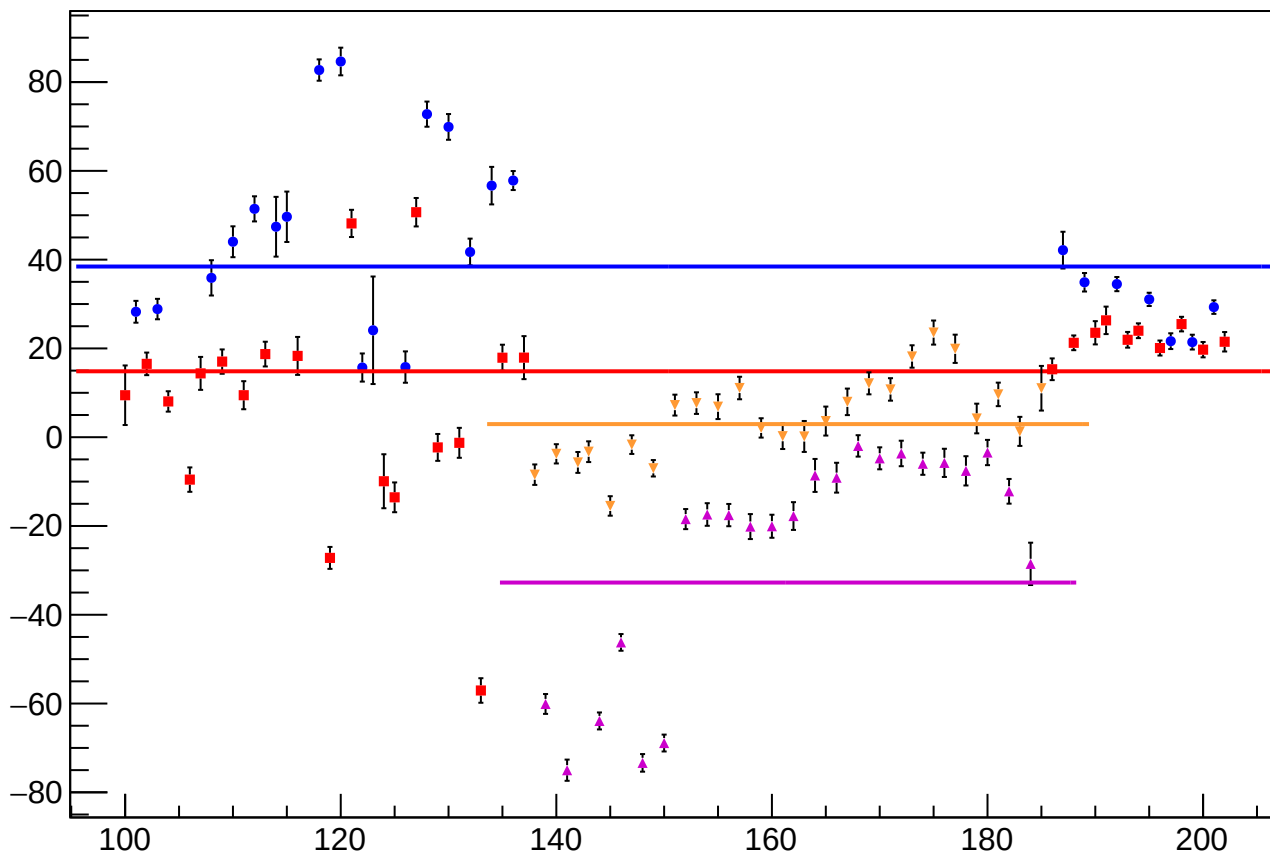
Right: 1802.512 $\pm$ 0.261 χ^2 /NDF: 1875381.2/52

In: 2047.322 $\pm$ 0.277 χ^2 /NDF: 2582288.4/46

Out: 2047.915 $\pm$ 0.262 χ^2 /NDF: 2436489.3/53

All: 2047.635 $\pm$ 0.190 χ^2 /NDF: 5018780.2/100

diff_bpm0i01aX_mean vs Slug, Sign Corrected



Right In: 38.451 $\pm$ 0.500 χ^2/NDF : 1346.8/23

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

Right Out: 14.847 $\pm$ 0.462 χ^2/NDF : 1602.4/28

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

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

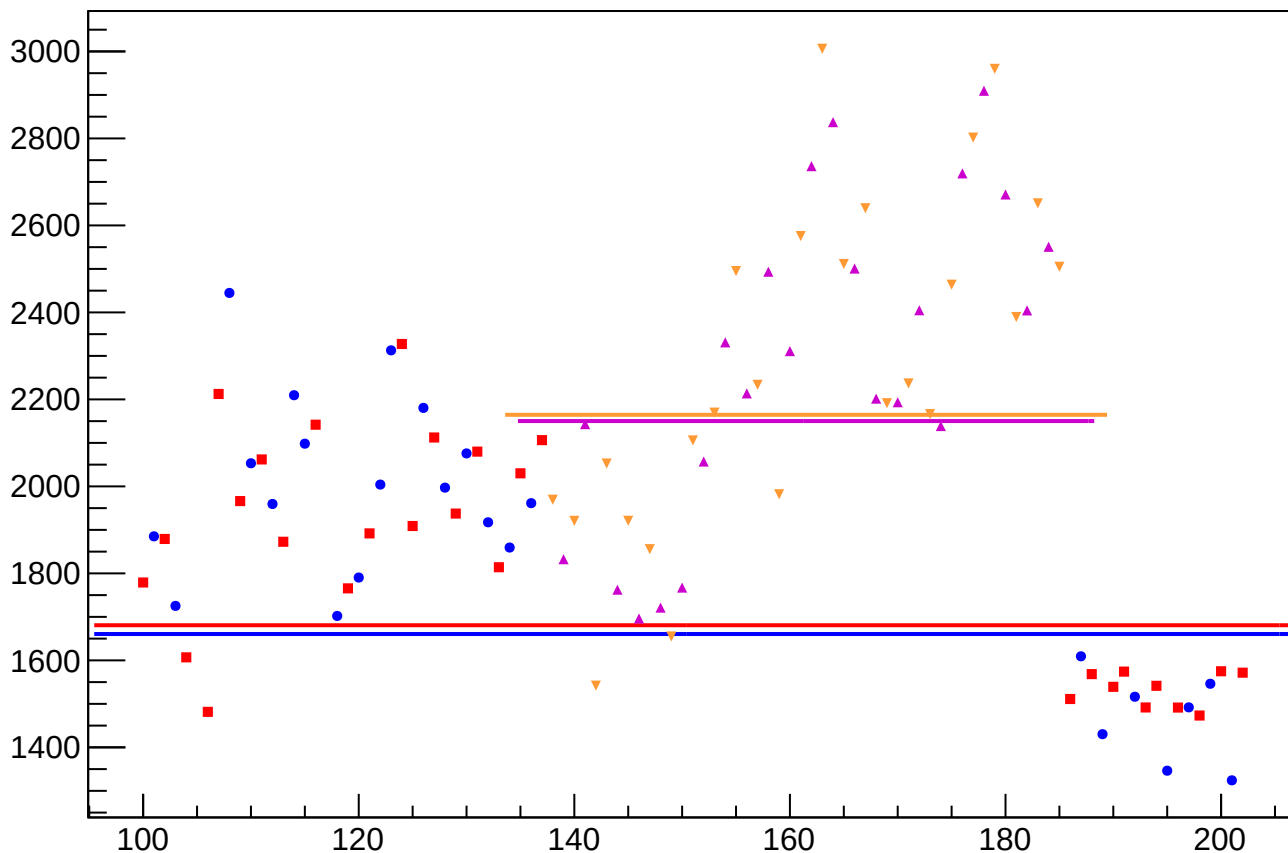
Right: 25.724 $\pm$ 0.339 χ^2/NDF : 4150.9/52

In: 4.665 $\pm$ 0.362 χ^2/NDF : 13601.6/46

Out: 9.505 $\pm$ 0.343 χ^2/NDF : 2237.6/53

All: 7.218 $\pm$ 0.249 χ^2/NDF : 15933.3/100

diff_bpm0i01aX_rms vs Slug, Sign Corrected



Right In: 1660.561 ± 0.354 $\chi^2/\text{NDF}: 627017.1/23$

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

Right Out: 1680.743 ± 0.327 $\chi^2/\text{NDF}: 453854.5/28$

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

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

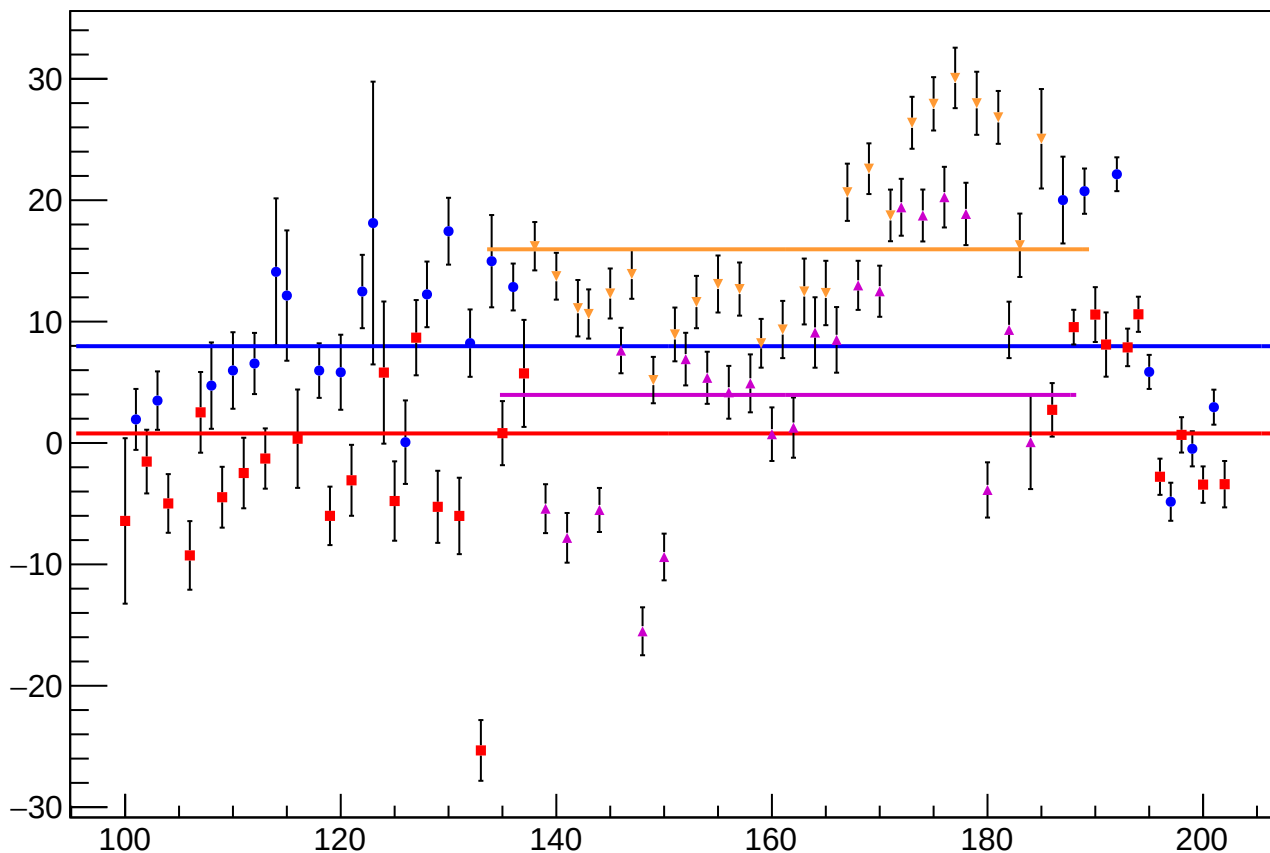
Right: 1671.443 ± 0.240 $\chi^2/\text{NDF}: 1082628.7/52$

In: 1892.909 ± 0.256 $\chi^2/\text{NDF}: 2449059.9/46$

Out: 1898.027 ± 0.243 $\chi^2/\text{NDF}: 2403654.0/53$

All: 1895.608 ± 0.176 $\chi^2/\text{NDF}: 4852924.4/100$

diff_bpm0i01aY_mean vs Slug, Sign Corrected



Right In: 7.974 ± 0.460 $\chi^2/\text{NDF}: 323.0/23$

Left Out: 15.956 ± 0.447 $\chi^2/\text{NDF}: 245.2/24$

Right Out: 0.786 ± 0.418 $\chi^2/\text{NDF}: 316.0/28$

Left In: 3.960 ± 0.463 $\chi^2/\text{NDF}: 464.9/22$

Left: 10.161 ± 0.322 $\chi^2/\text{NDF}: 1057.3/47$

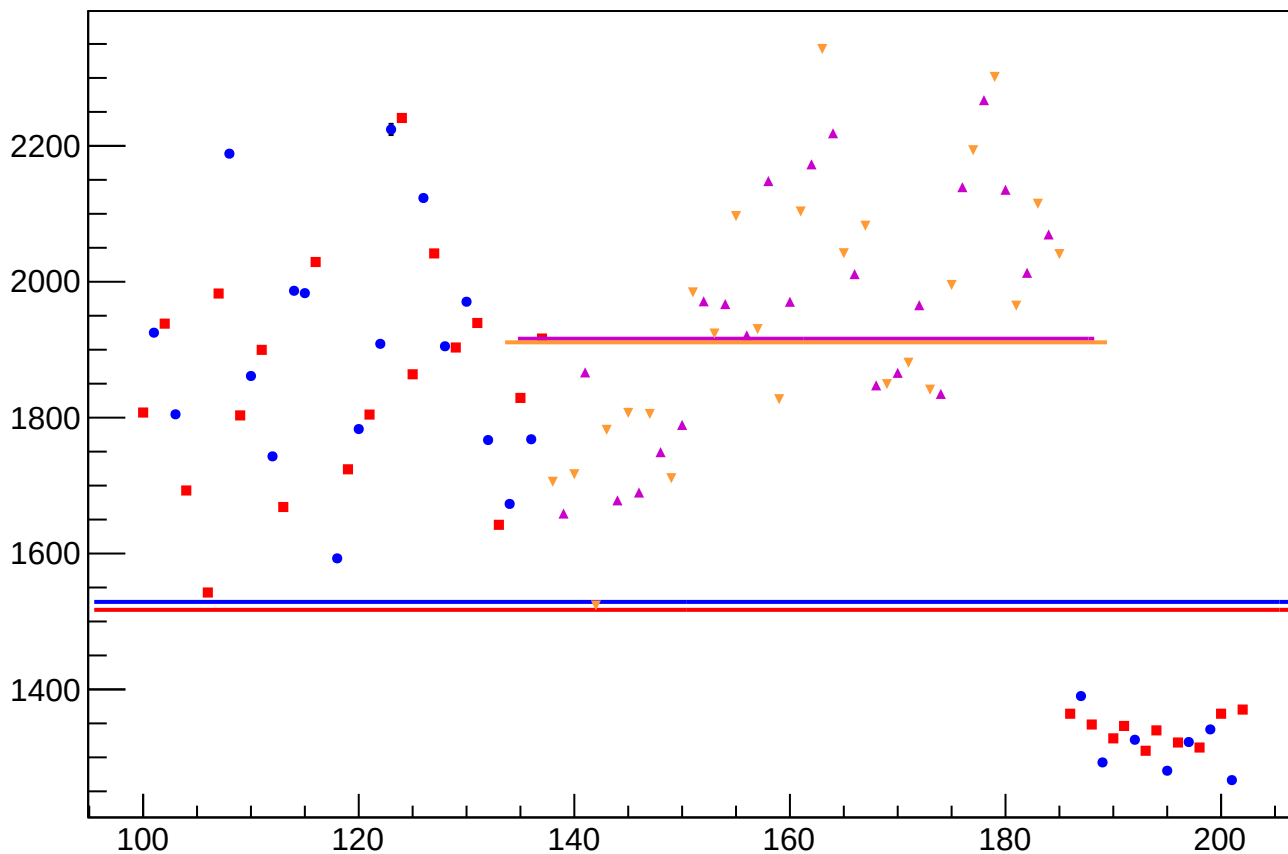
Right: 4.041 ± 0.310 $\chi^2/\text{NDF}: 772.6/52$

In: 5.979 ± 0.326 $\chi^2/\text{NDF}: 825.8/46$

Out: 7.865 ± 0.306 $\chi^2/\text{NDF}: 1174.3/53$

All: 6.984 ± 0.223 $\chi^2/\text{NDF}: 2017.9/100$

diff_bpm0i01aY_rms vs Slug, Sign Corrected



Right In: 1528.805 $\pm$ 0.325 χ^2 /NDF: 734252.2/23

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

Right Out: 1517.109 $\pm$ 0.296 χ^2 /NDF: 700405.3/28

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

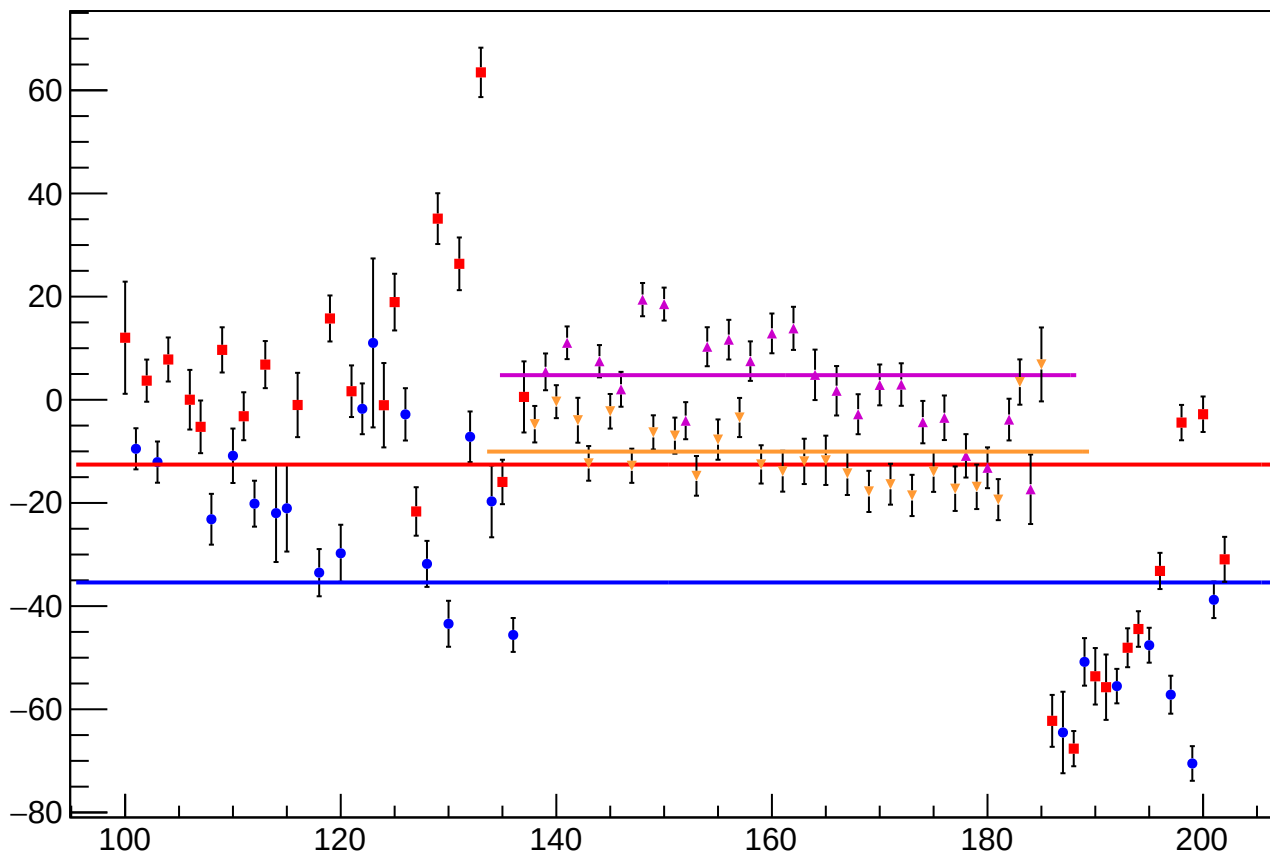
Right: 1522.404 $\pm$ 0.219 χ^2 /NDF: 1435364.8/52

In: 1721.319 $\pm$ 0.231 χ^2 /NDF:1713194.0/46

Out: 1700.837 $\pm$ 0.216 χ^2 /NDF:1855625.6/53

All: 1710.409 $\pm$ 0.158 χ^2 /NDF: 3573017.8/10

diff_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -35.415 ± 0.920 χ^2/NDF : 488.9/23

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

Right Out: -12.559 ± 0.849 χ^2/NDF : 1297.0/28

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

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

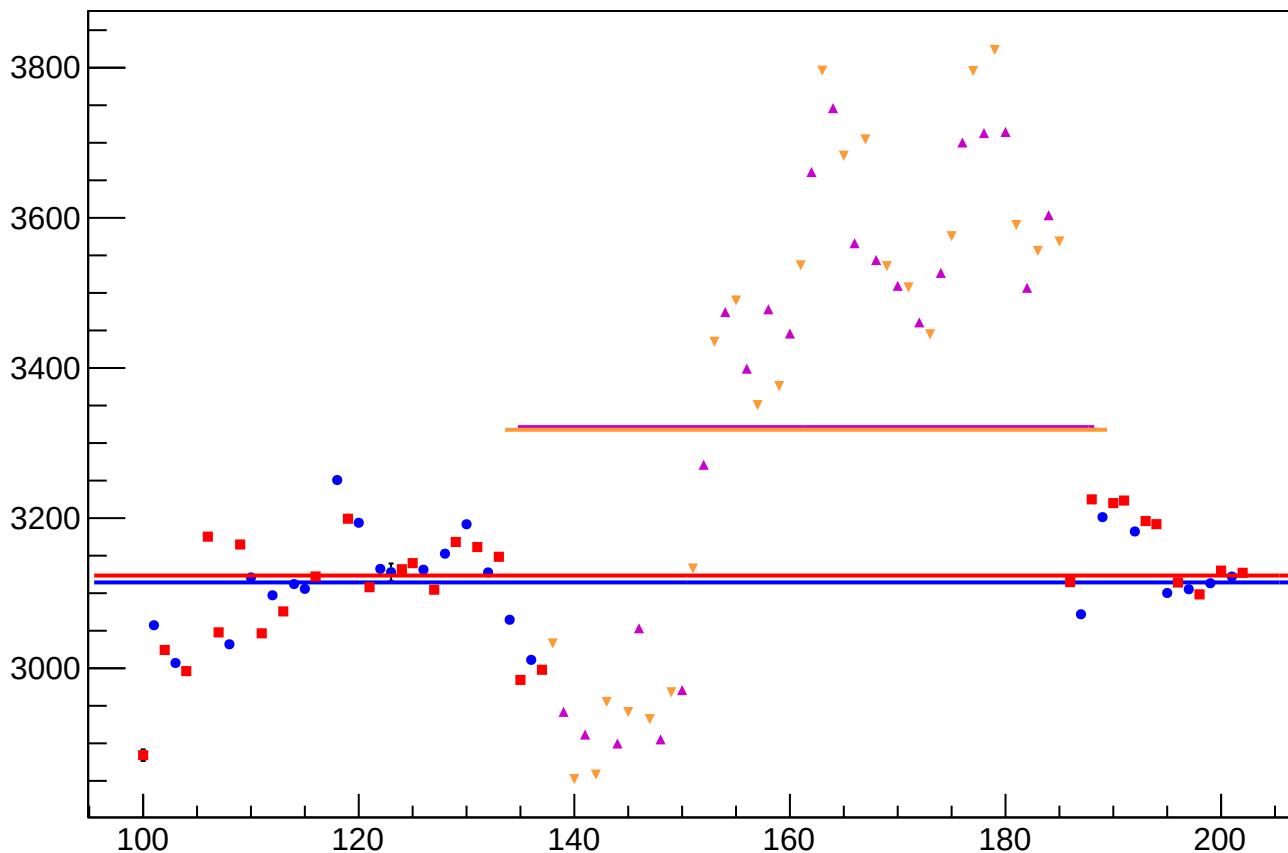
Right: -23.070 ± 0.624 χ^2/NDF : 2119.0/52

In: -12.536 ± 0.604 χ^2/NDF : 1703.0/46

Out: -11.187 ± 0.573 χ^2/NDF : 1368.9/53

All: -11.826 ± 0.416 χ^2/NDF : 3074.6/100

diff_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 3114.368 $\pm$ 0.651 χ^2/NDF : 9178.2/23

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

Right Out: 3123.527 $\pm$ 0.601 χ^2/NDF : 13745.0/28

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

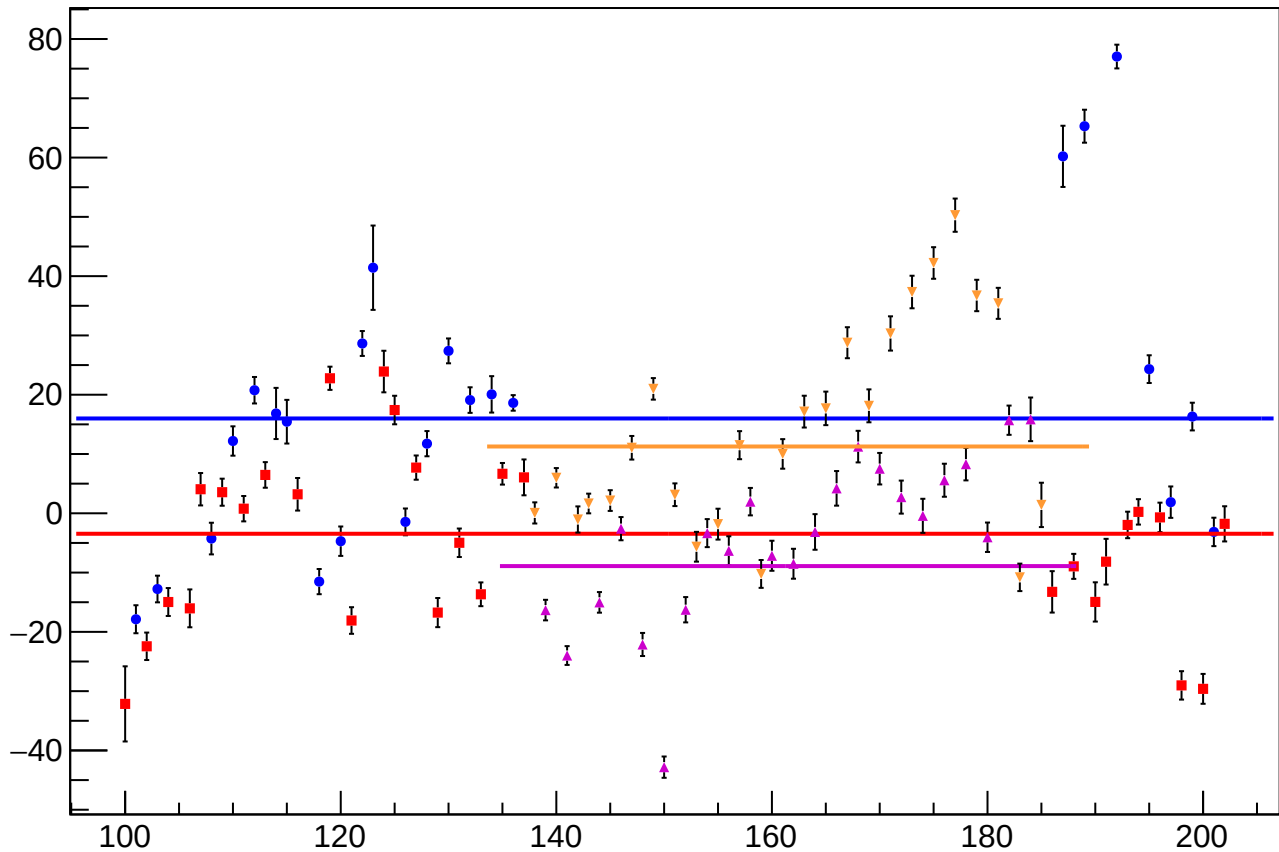
Right: 3119.315 $\pm$ 0.441 χ^2/NDF : 23030.1/52

In: 3232.158 $\pm$ 0.427 χ^2/NDF : 351065.8/46

Out: 3229.303 $\pm$ 0.405 χ^2/NDF : 407578.3/53

All: 3230.656 $\pm$ 0.294 χ^2/NDF : 758667.6/100

diff_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: 15.994 $\pm$ 0.483 χ^2/NDF : 2242.2/23

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

Right Out: -3.452 $\pm$ 0.455 χ^2/NDF : 914.6/28

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

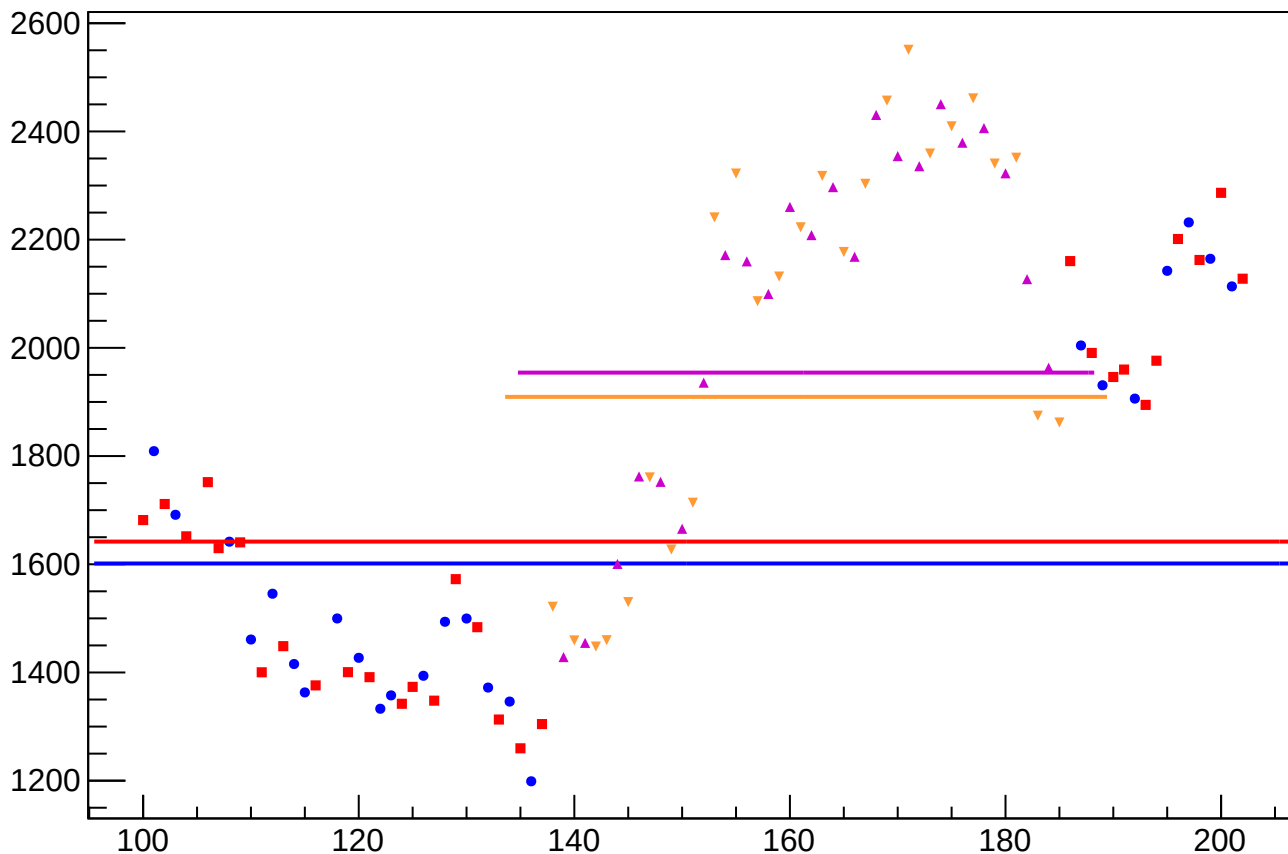
Right: 5.693 $\pm$ 0.331 χ^2/NDF : 4014.6/52

In: 3.396 $\pm$ 0.340 χ^2/NDF :4521.7/46

Out: 3.924 $\pm$ 0.322 χ^2/NDF :2580.0/53

All: 3.674 $\pm$ 0.234 χ^2/NDF : 7103.0/100

diff_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 1601.419 $\pm$ 0.342 χ^2 /NDF: 853729.4/23

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

Right Out: 1641.923 $\pm$ 0.322 χ^2 /NDF: 961433.0/28

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

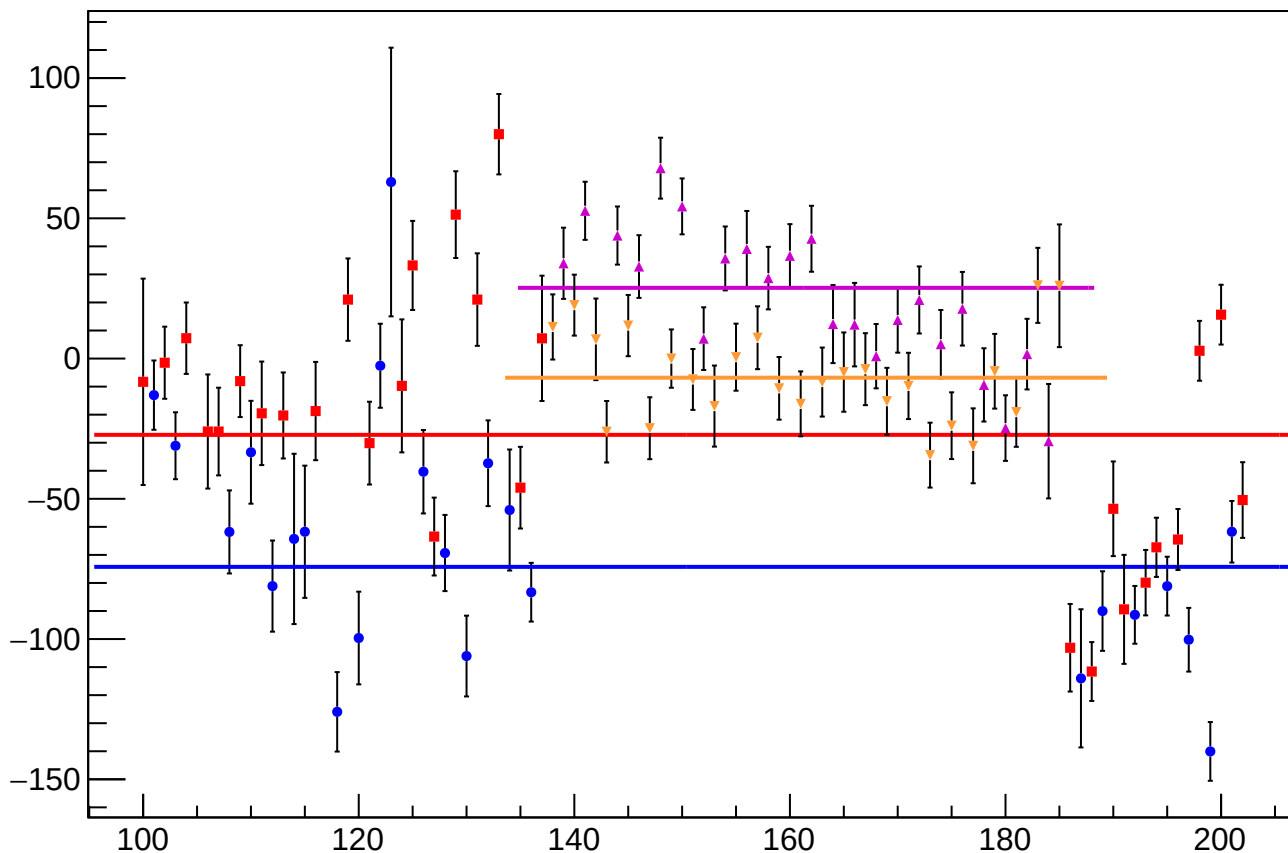
Right: 1622.874 $\pm$ 0.234 χ^2 /NDF: 1822605.5/52

In: 1779.926 $\pm$ 0.240 χ^2 /NDF:2437965.4/46

Out: 1775.942 $\pm$ 0.227 χ^2 /NDF:2705703.8/53

All: 1777.826 $\pm$ 0.165 χ^2 /NDF: 5143814.2/100

diff_bpm0l02X_mean vs Slug, Sign Corrected



Right In: -74.262 ± 2.863 χ^2/NDF : 161.5/23

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

Right Out: -27.194 ± 2.646 χ^2/NDF : 316.1/28

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

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

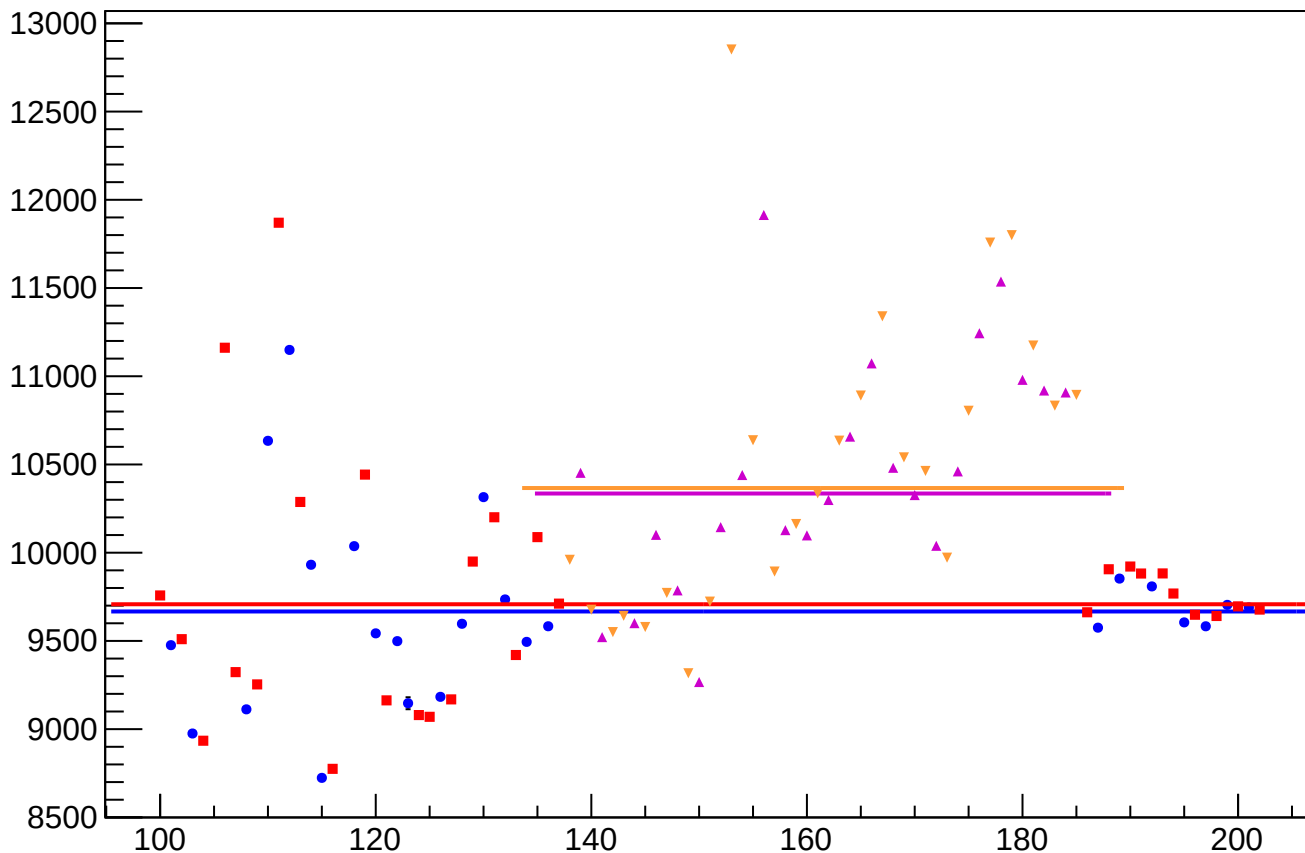
Right: -48.873 ± 1.943 χ^2/NDF : 623.3/52

In: -17.555 ± 1.877 χ^2/NDF : 938.8/46

Out: -16.114 ± 1.787 χ^2/NDF : 390.7/53

All: -16.799 ± 1.294 χ^2/NDF : 1329.8/100

diff_bpm0l02X_rms vs Slug, Sign Corrected



Right In: 9666.886+/-2.025 χ^2/NDF : 45020.7/23

Left Out: 10366.534+/-1.713 χ^2/NDF : 211402.8/24

Right Out: 9707.817+/-1.871 χ^2/NDF : 79493.6/28

Left In: 10335.399+/-1.758 χ^2/NDF : 127173.0/22

Left: 10351.373+/-1.227 χ^2/NDF : 338736.7/47

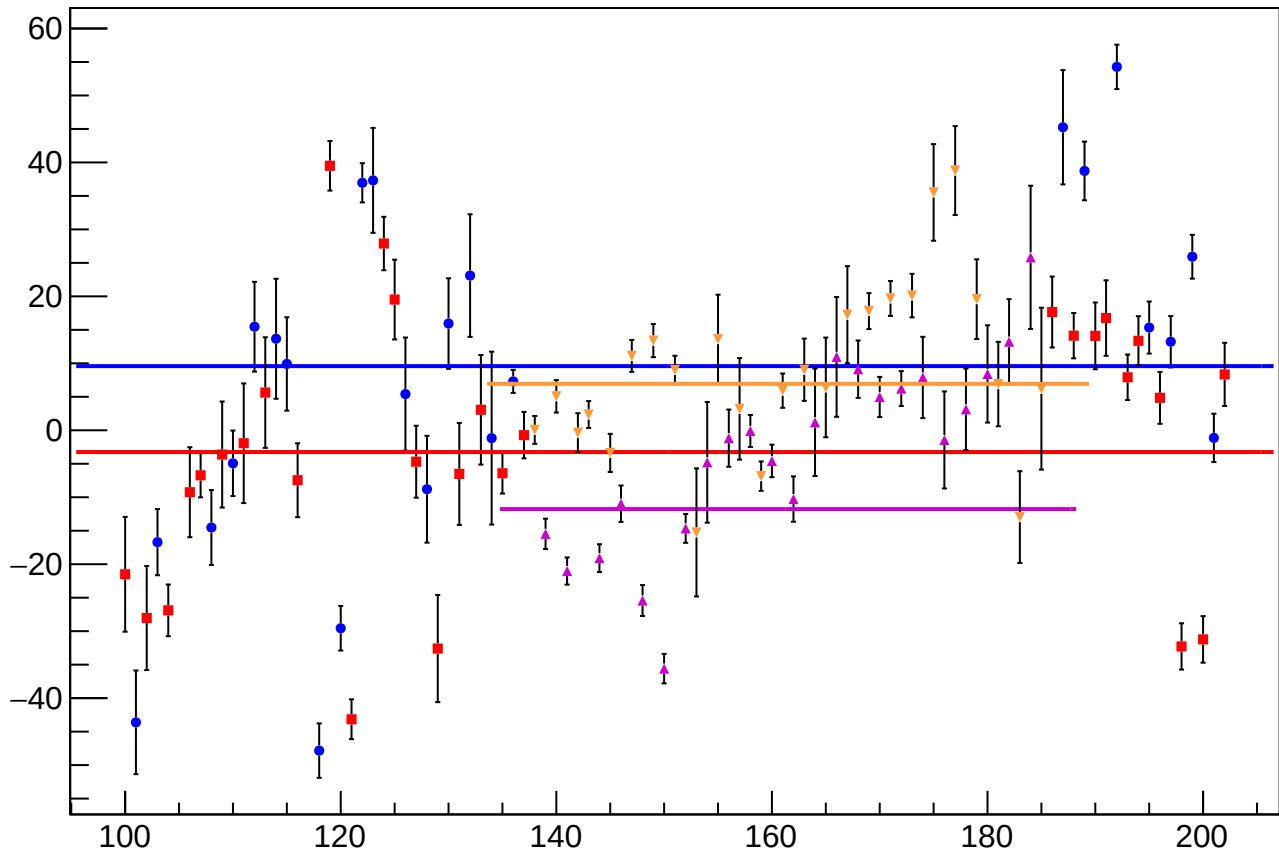
Right: 9688.965+/-1.374 χ^2/NDF : 124734.7/52

In: 10047.972+/-1.328 χ^2/NDF : 234345.9/46

Out: 10066.130+/-1.263 χ^2/NDF : 358332.9/53

All: 10057.500+/-0.915 χ^2/NDF : 592776.9/100

diff_bpm0l02Y_mean vs Slug, Sign Corrected



Right In: 9.582 ± 0.864 $\chi^2/\text{NDF}: 833.4/23$

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

Right Out: -3.248 ± 0.824 $\chi^2/\text{NDF}: 704.0/28$

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

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

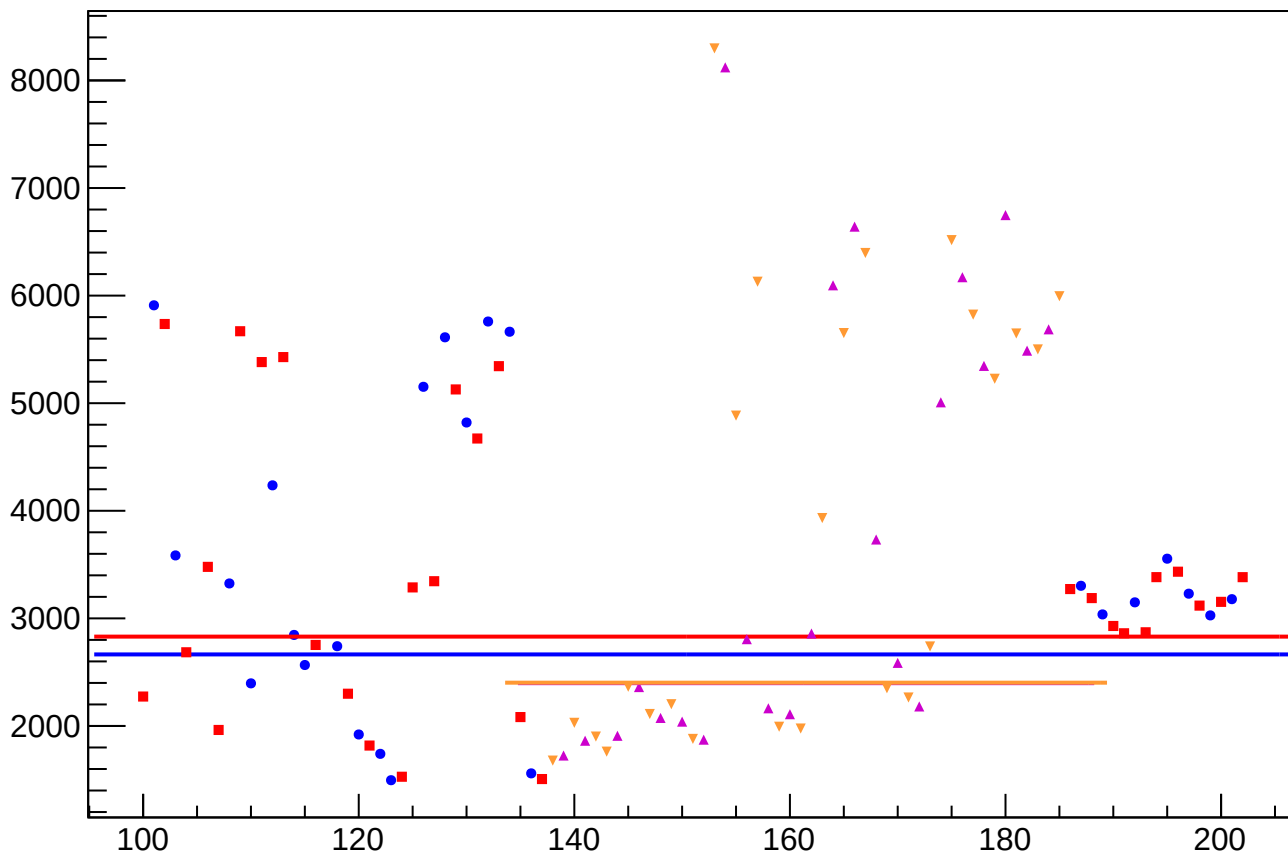
Right: 2.864 ± 0.596 $\chi^2/\text{NDF}: 1652.8/52$

In: -4.076 ± 0.519 $\chi^2/\text{NDF}: 1619.0/46$

Out: 3.116 ± 0.505 $\chi^2/\text{NDF}: 1003.2/53$

All: -0.384 ± 0.362 $\chi^2/\text{NDF}: 2721.0/100$

diff_bpm0l02Y_rms vs Slug, Sign Corrected



Right In: 2664.990 ± 0.611 $\chi^2/\text{NDF}: 3004300.5/23$

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

Right Out: 2830.448 ± 0.583 $\chi^2/\text{NDF}: 2656036.5/28$

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

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

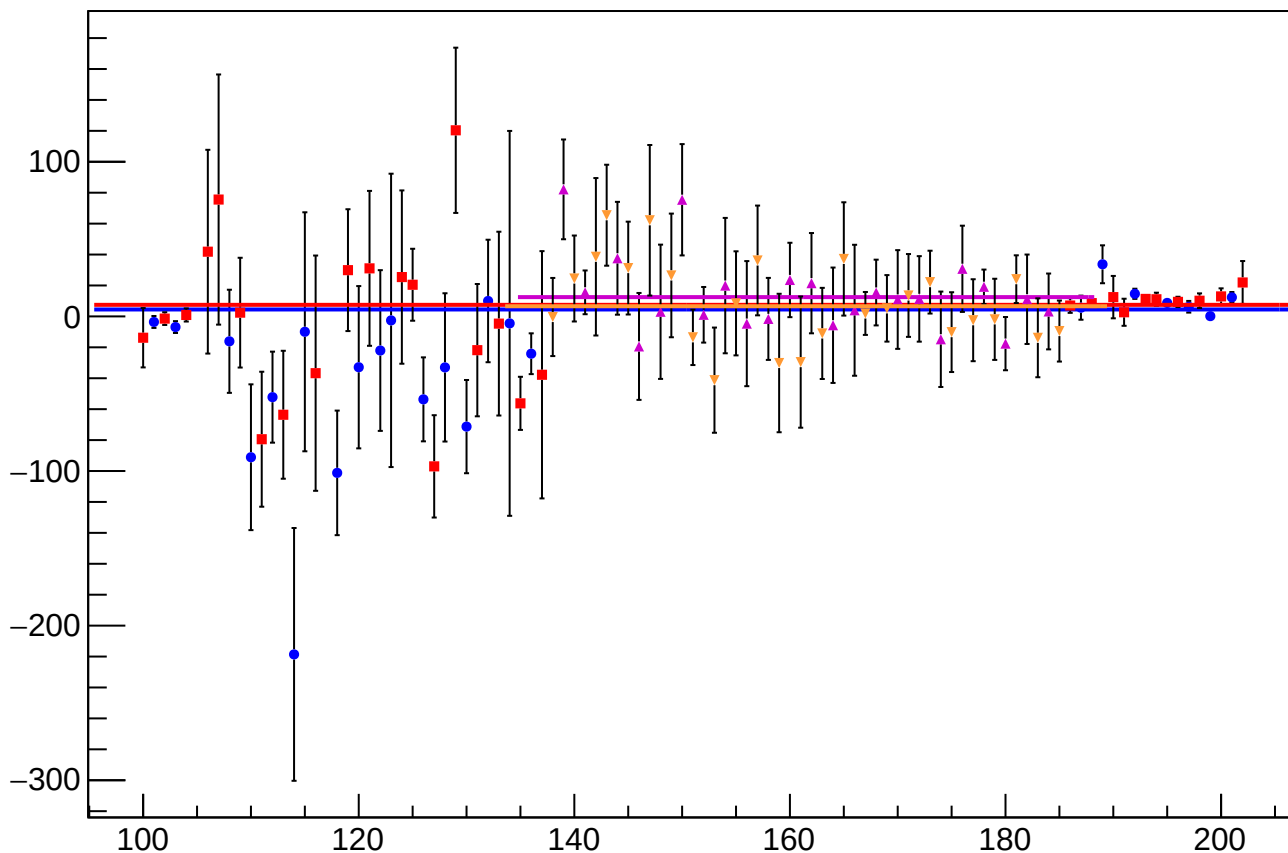
Right: 2751.628 ± 0.422 $\chi^2/\text{NDF}: 5698733.3/52$

In: 2493.976 ± 0.367 $\chi^2/\text{NDF}: 8525655.2/46$

Out: 2562.995 ± 0.357 $\chi^2/\text{NDF}: 9339108.4/53$

All: 2529.411 ± 0.256 $\chi^2/\text{NDF}: 17882950.2/100$

diff_bpm0l03X_mean vs Slug, Sign Corrected



Right In: 4.472 $\pm$ 1.269 χ^2 /NDF: 77.1/23

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

Right Out: 7.475 $\pm$ 1.240 χ^2 /NDF: 52.4/28

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

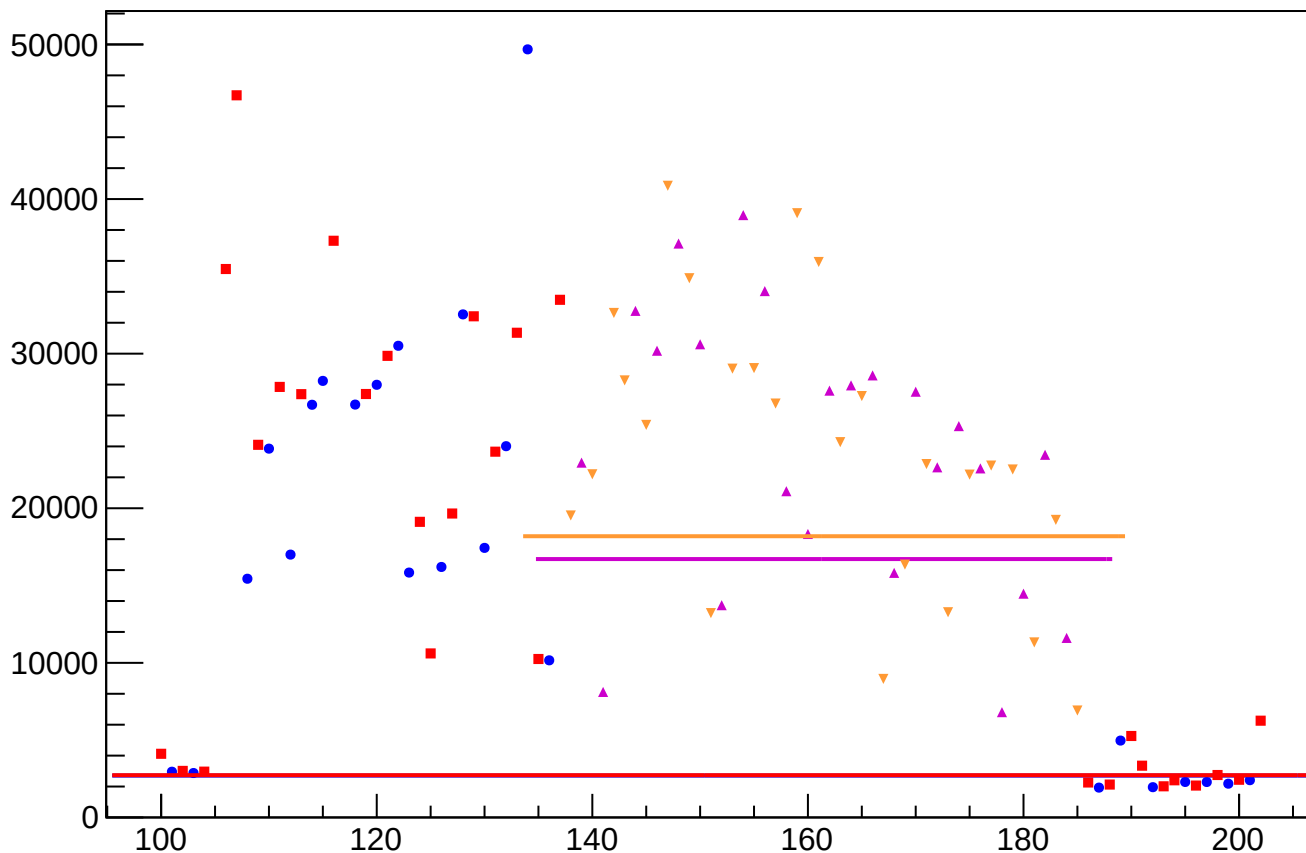
Right: 6.007 $\pm$ 0.887 χ^2 /NDF: 132.3/52

In: 4.951 $\pm$ 1.230 χ^2 /NDF:94.9/46

Out: 7.424 $\pm$ 1.205 χ^2 /NDF:69.1/53

All: 6.213 $\pm$ 0.861 χ^2 /NDF: 166.1/100

diff_bpm0l03X_rms vs Slug, Sign Corrected



Right In: 2708.401 ± 0.897 $\chi^2/\text{NDF}: 6921940.3/23$

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

Right Out: 2733.099 ± 0.877 $\chi^2/\text{NDF}: 8677970.9/28$

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

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

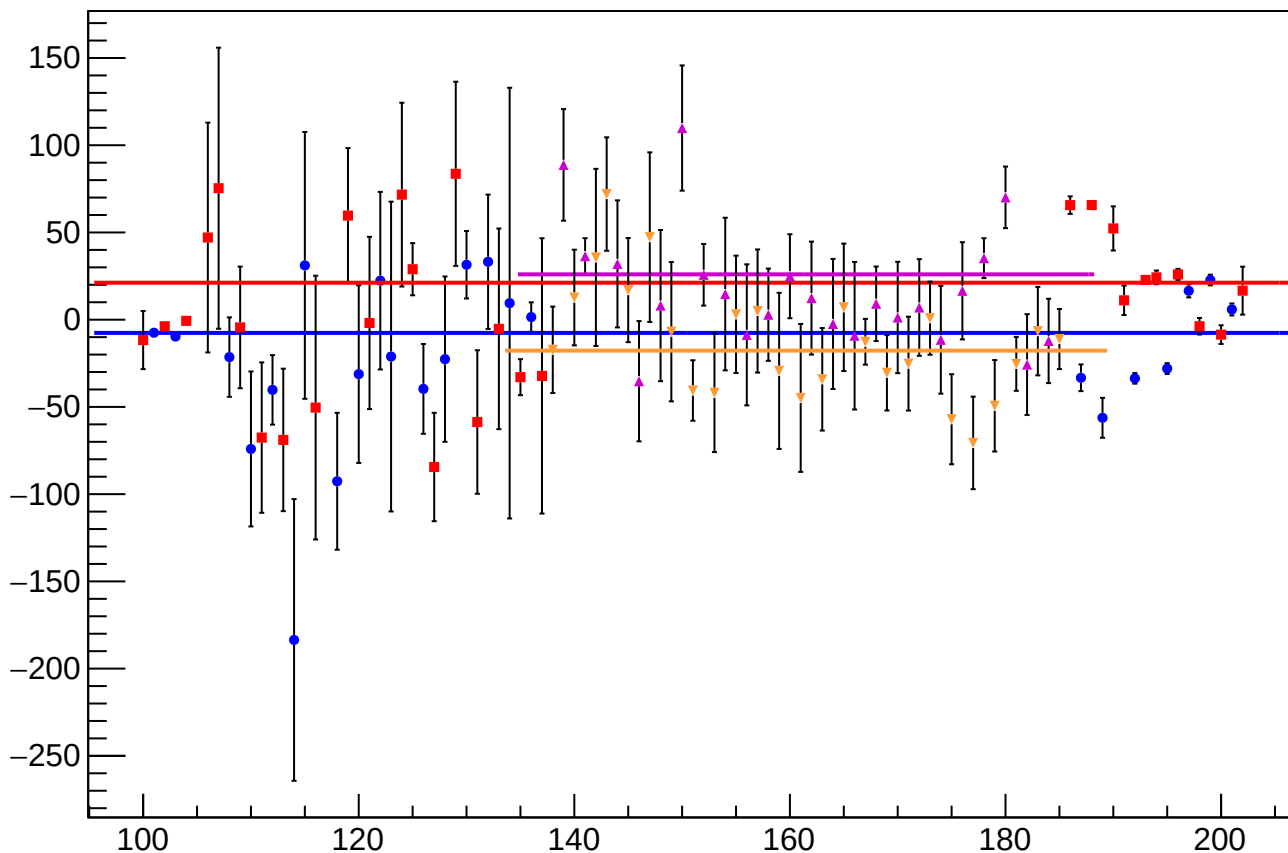
Right: 2721.028 ± 0.627 $\chi^2/\text{NDF}: 15600298.8/52$

In: 3547.458 ± 0.870 $\chi^2/\text{NDF}: 27719756.7/46$

Out: 3603.547 ± 0.852 $\chi^2/\text{NDF}: 31431186.2/53$

All: 3576.081 ± 0.609 $\chi^2/\text{NDF}: 59153065.3/100$

diff_bpm0l03Y_mean vs Slug, Sign Corrected



Right In: -7.569 ± 1.105 χ^2/NDF : 327.1/23

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

Right Out: 21.208 ± 1.087 χ^2/NDF : 618.4/28

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

Left: 4.967 ± 3.450 χ^2/NDF : 99.8/47

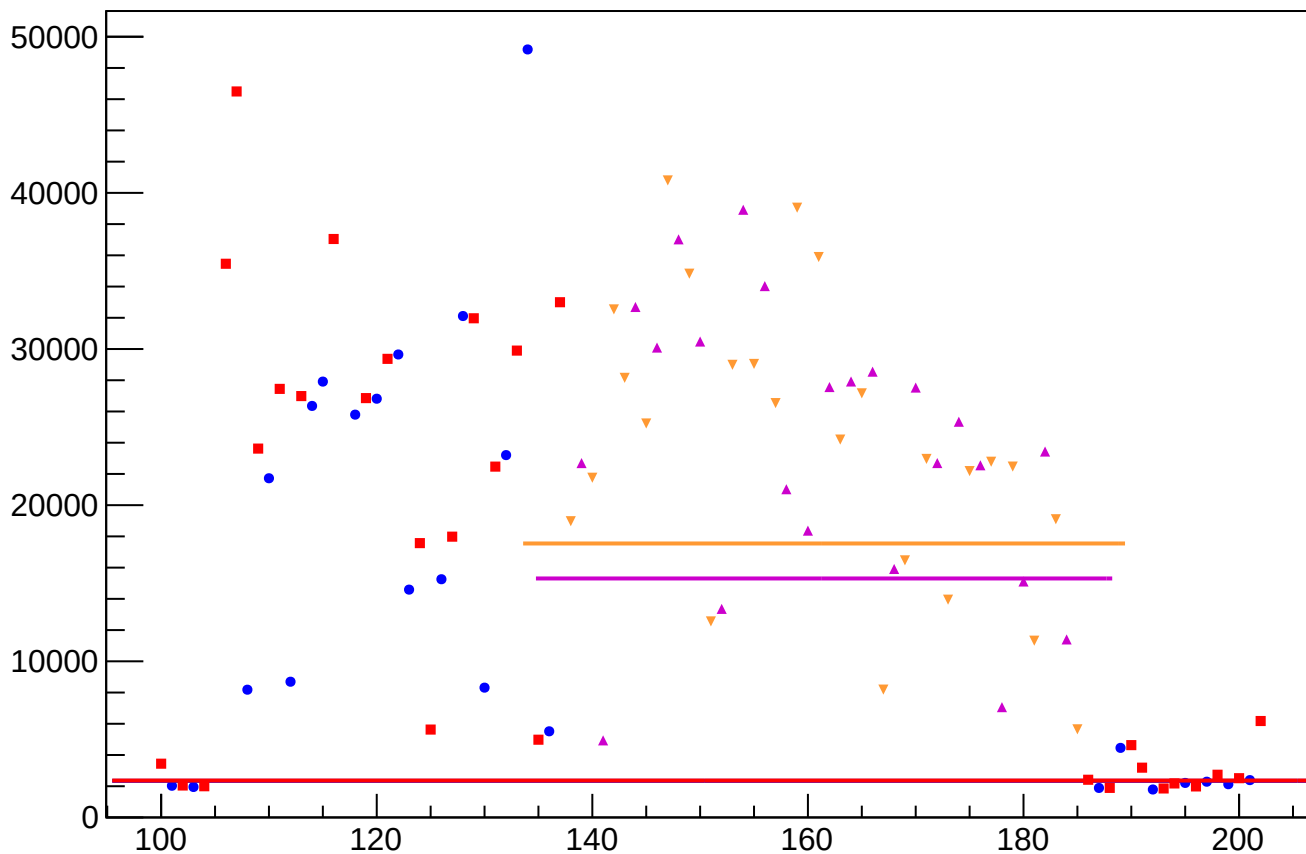
Right: 7.060 ± 0.775 χ^2/NDF : 1290.1/52

In: -5.872 ± 1.077 χ^2/NDF : 406.3/46

Out: 19.435 ± 1.062 χ^2/NDF : 704.0/53

All: 6.960 ± 0.756 χ^2/NDF : 1390.3/100

diff_bpm0l03Y_rms vs Slug, Sign Corrected



Right In: 2344.782 ± 0.781 $\chi^2/\text{NDF}: 5777169.1/23$

Left Out: 17546.173 ± 3.517 $\chi^2/\text{NDF}: 5902620.4/24$

Right Out: 2363.626 ± 0.768 $\chi^2/\text{NDF}: 8314153.4/28$

Left In: 15305.311 ± 3.386 $\chi^2/\text{NDF}: 7721177.0/22$

Left: 16383.216 ± 2.439 $\chi^2/\text{NDF}: 13834445.4/47$

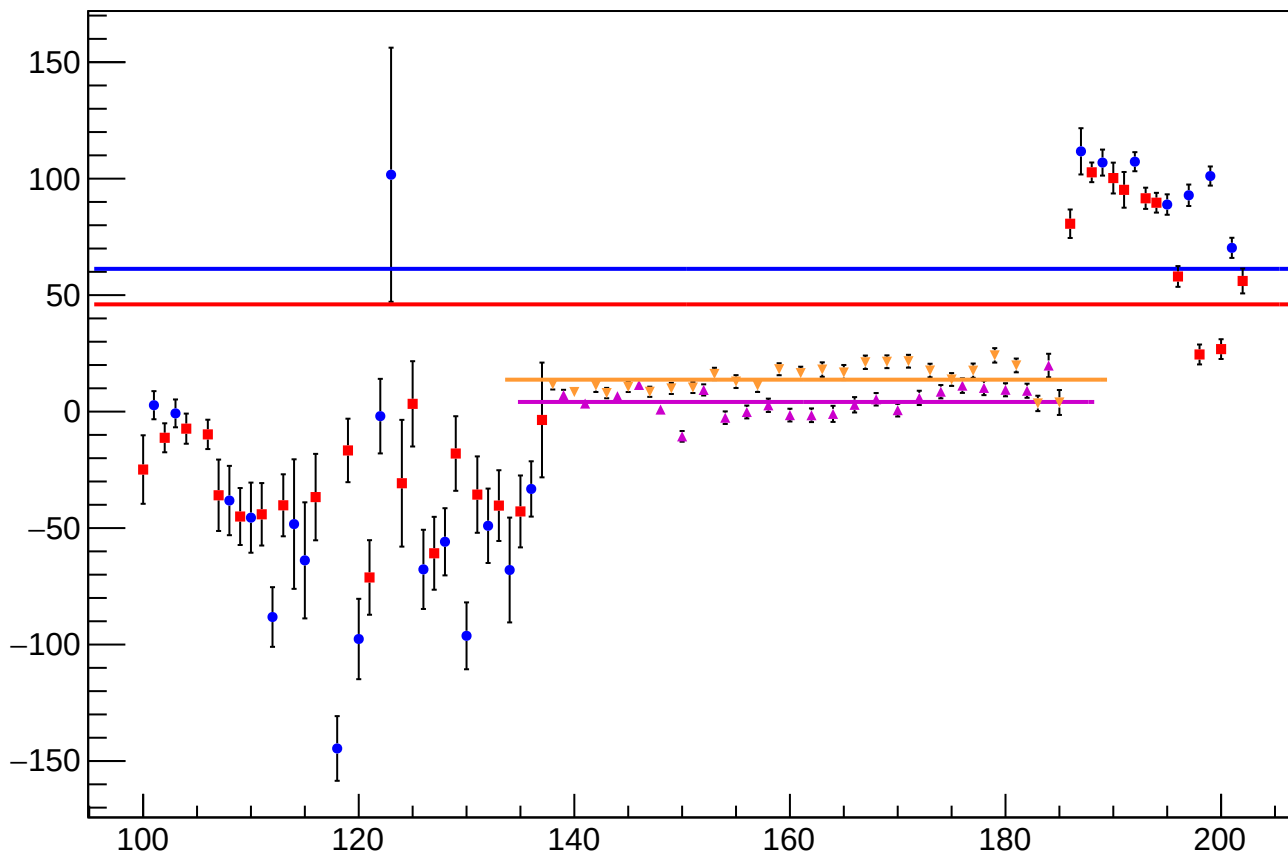
Right: 2354.361 ± 0.548 $\chi^2/\text{NDF}: 14091618.2/52$

In: 3000.032 ± 0.761 $\chi^2/\text{NDF}: 27406712.2/46$

Out: 3055.296 ± 0.751 $\chi^2/\text{NDF}: 32000301.8/53$

All: 3028.053 ± 0.535 $\chi^2/\text{NDF}: 59409685.2/100$

diff_bpm0l04X_mean vs Slug, Sign Corrected



Right In: 61.280 $\pm$ 1.532 χ^2 /NDF: 1586.5/23

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

Right Out: 46.034 $\pm$ 1.333 χ^2 /NDF: 1274.3/28

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

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

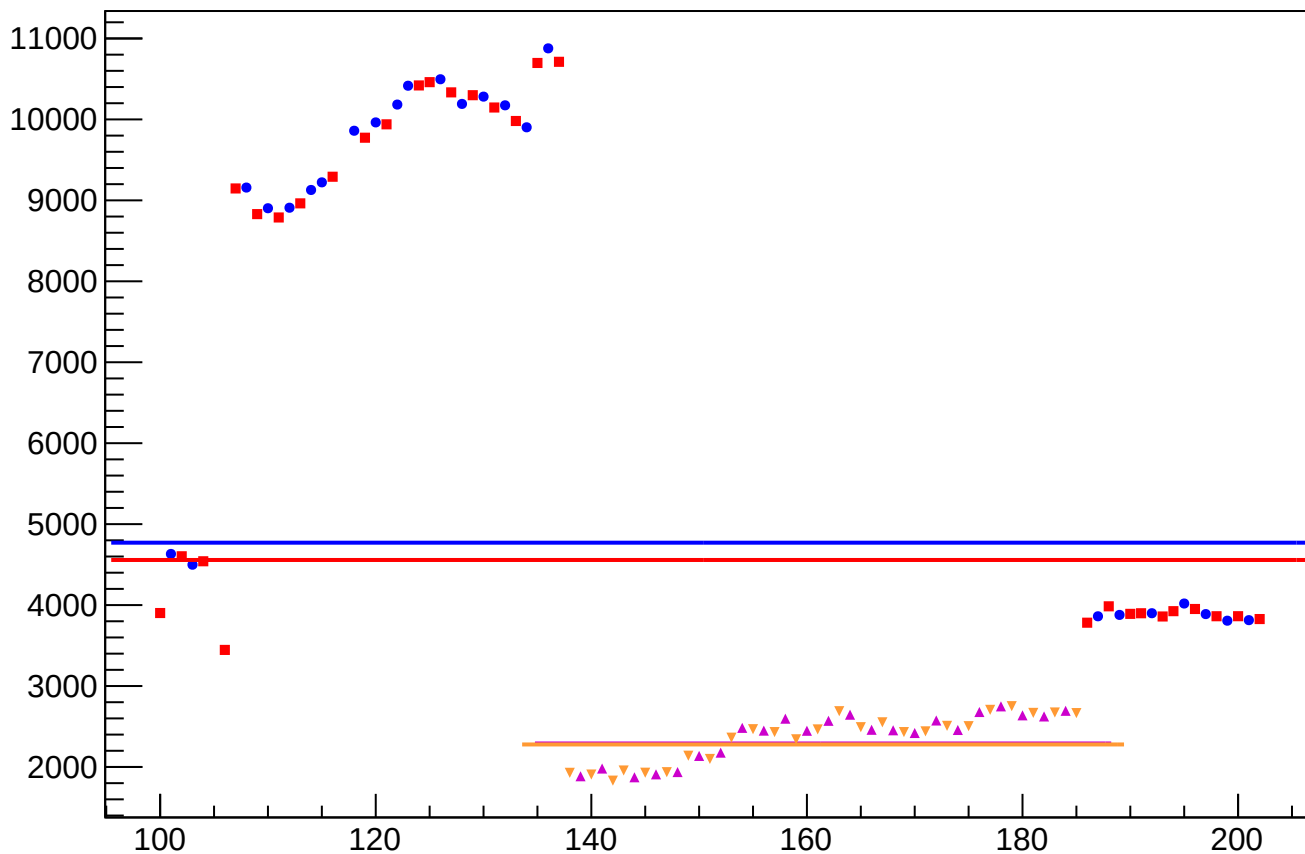
Right: 52.604 $\pm$ 1.006 χ^2 /NDF: 2917.1/52

In: 10.765 $\pm$ 0.522 χ^2 /NDF:2927.9/46

Out: 18.197 $\pm$ 0.497 χ^2 /NDF:1870.4/53

All: 14.663 $\pm$ 0.360 χ^2 /NDF: 4904.7/100

diff_bpm0l04X_rms vs Slug, Sign Corrected



Right In: 4770.881+/-1.083 χ^2/NDF : 3516620.9/23

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

Right Out: 4557.204+/-0.943 χ^2/NDF : 3694042.0/28

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

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

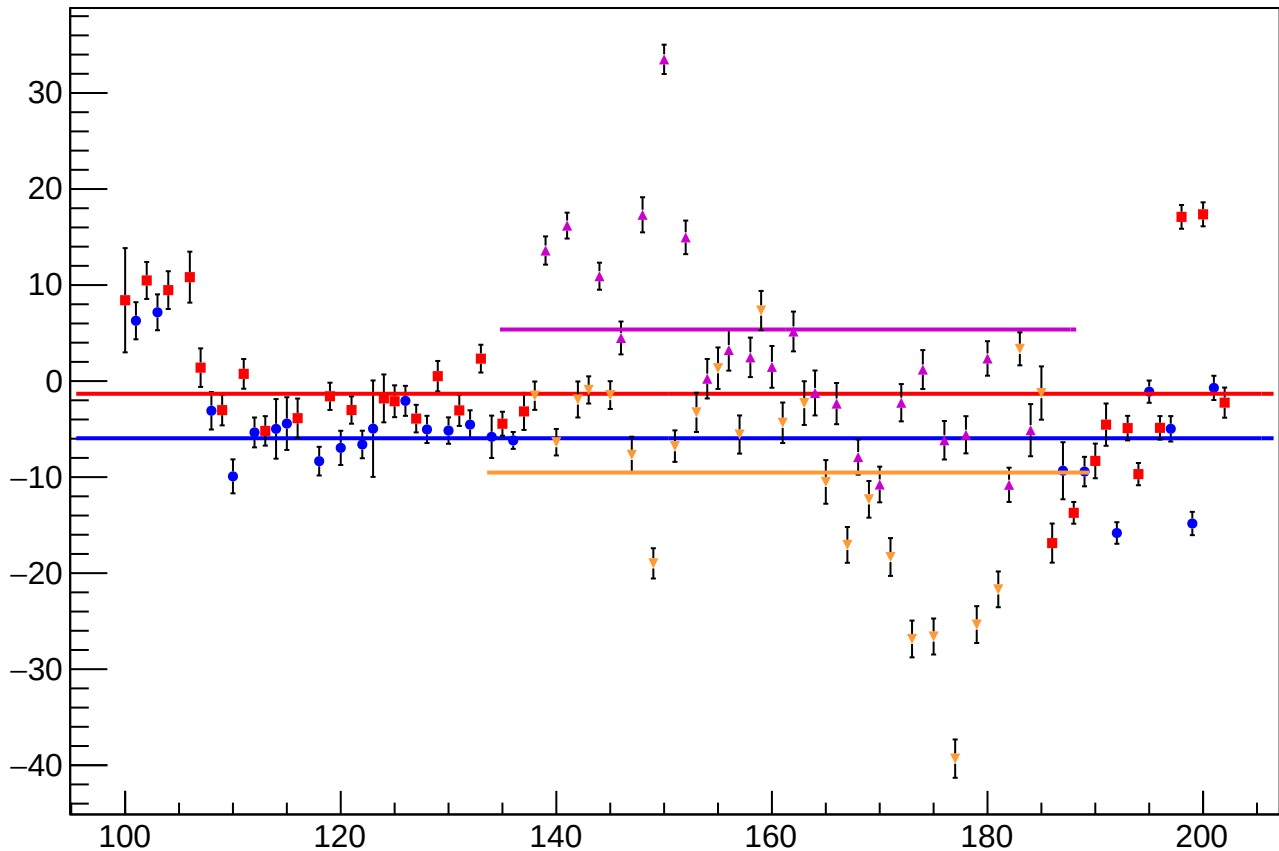
Right: 4649.282+/-0.711 χ^2/NDF : 7232802.2/52

In: 2578.023+/-0.369 χ^2/NDF : 8741495.3/46

Out: 2594.482+/-0.351 χ^2/NDF : 9334634.5/53

All: 2586.656+/-0.254 χ^2/NDF : 18077173.9/100

diff_bpm0l04Y_mean vs Slug, Sign Corrected



Right In: -5.952 ± 0.310 $\chi^2/\text{NDF}: 280.6/23$

Left Out: -9.524 ± 0.365 $\chi^2/\text{NDF}: 884.1/24$

Right Out: -1.321 ± 0.290 $\chi^2/\text{NDF}: 834.9/28$

Left In: 5.372 ± 0.383 $\chi^2/\text{NDF}: 869.8/22$

Left: -2.437 ± 0.264 $\chi^2/\text{NDF}: 2547.3/47$

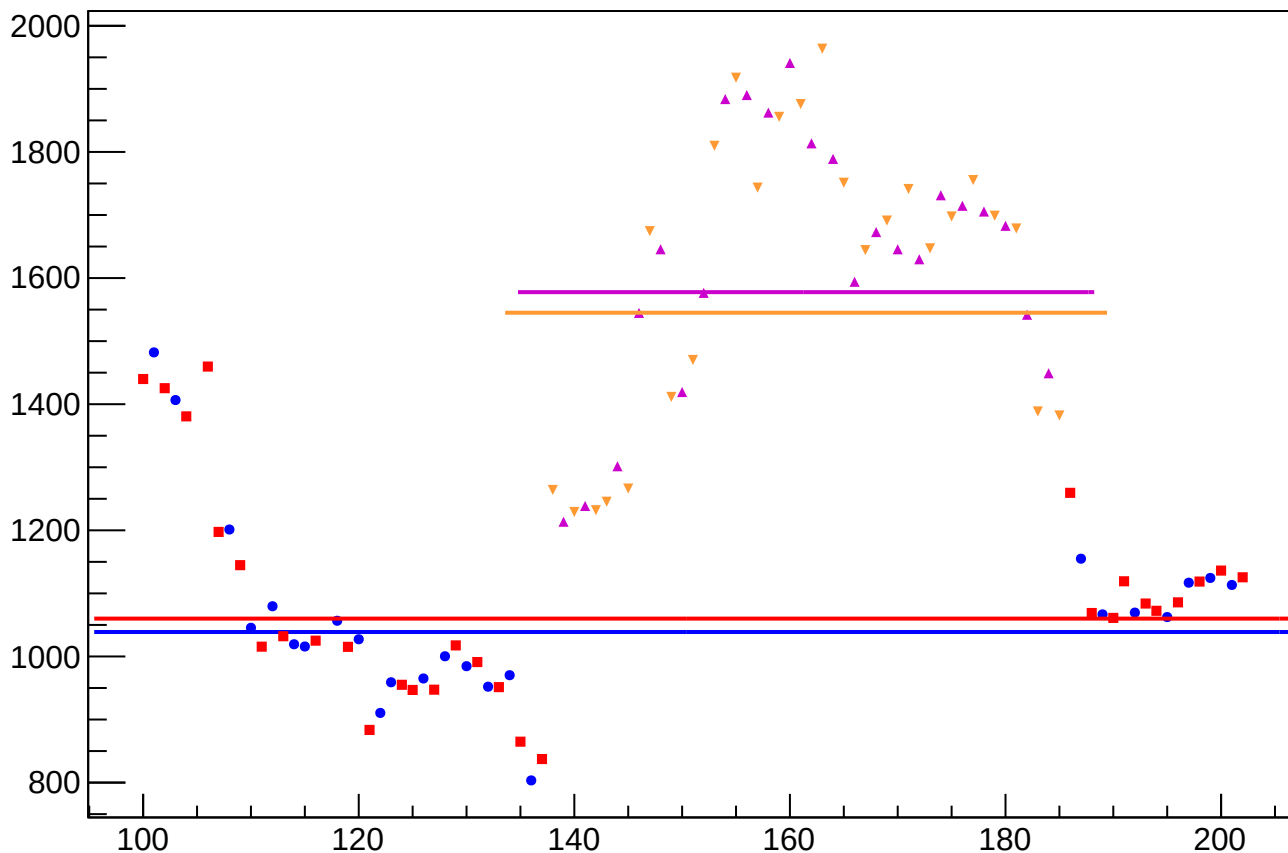
Right: -3.487 ± 0.212 $\chi^2/\text{NDF}: 1234.4/52$

In: -1.471 ± 0.241 $\chi^2/\text{NDF}: 1679.0/46$

Out: -4.503 ± 0.227 $\chi^2/\text{NDF}: 2028.6/53$

All: -3.076 ± 0.165 $\chi^2/\text{NDF}: 3791.4/100$

diff_bpm0l04Y_rms vs Slug, Sign Corrected



Right In: 1038.776 $\pm$ 0.219 χ^2 /NDF: 406496.5/23

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

Right Out: 1060.029 $\pm$ 0.205 χ^2 /NDF: 385935.5/28

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

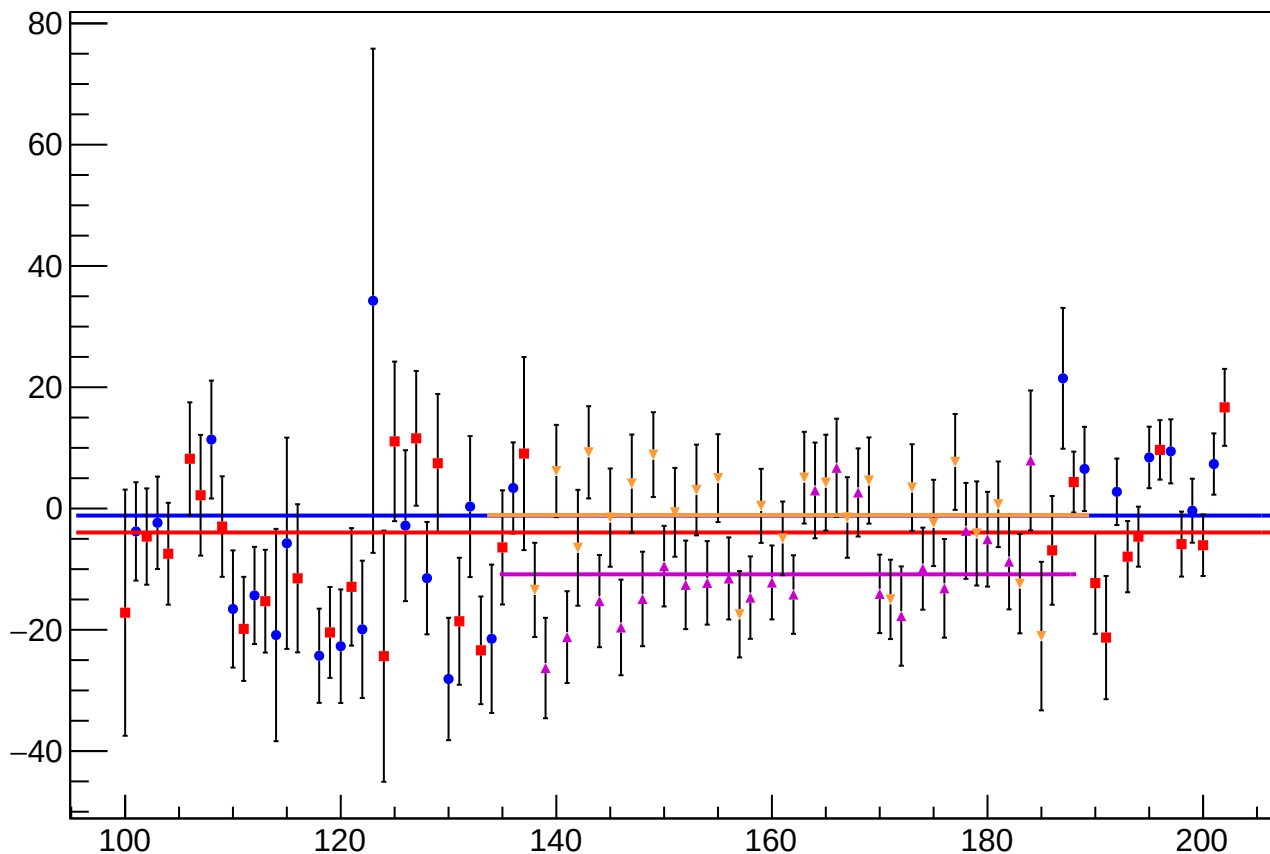
Right: 1050.091 $\pm$ 0.150 χ^2 /NDF: 797441.4/52

In: 1252.024 $\pm$ 0.170 χ^2 /NDF: 3425965.0/46

Out: 1248.177 $\pm$ 0.161 χ^2 /NDF: 3392956.9/53

All: 1249.988 $\pm$ 0.117 χ^2 /NDF: 6819191.9/100

diff_bpm0l05X_mean vs Slug, Sign Corrected



Right In: -1.162 $\pm$ 1.615 χ^2/NDF : 53.5/23

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

Right Out: -3.954 $\pm$ 1.446 χ^2/NDF : 52.5/28

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

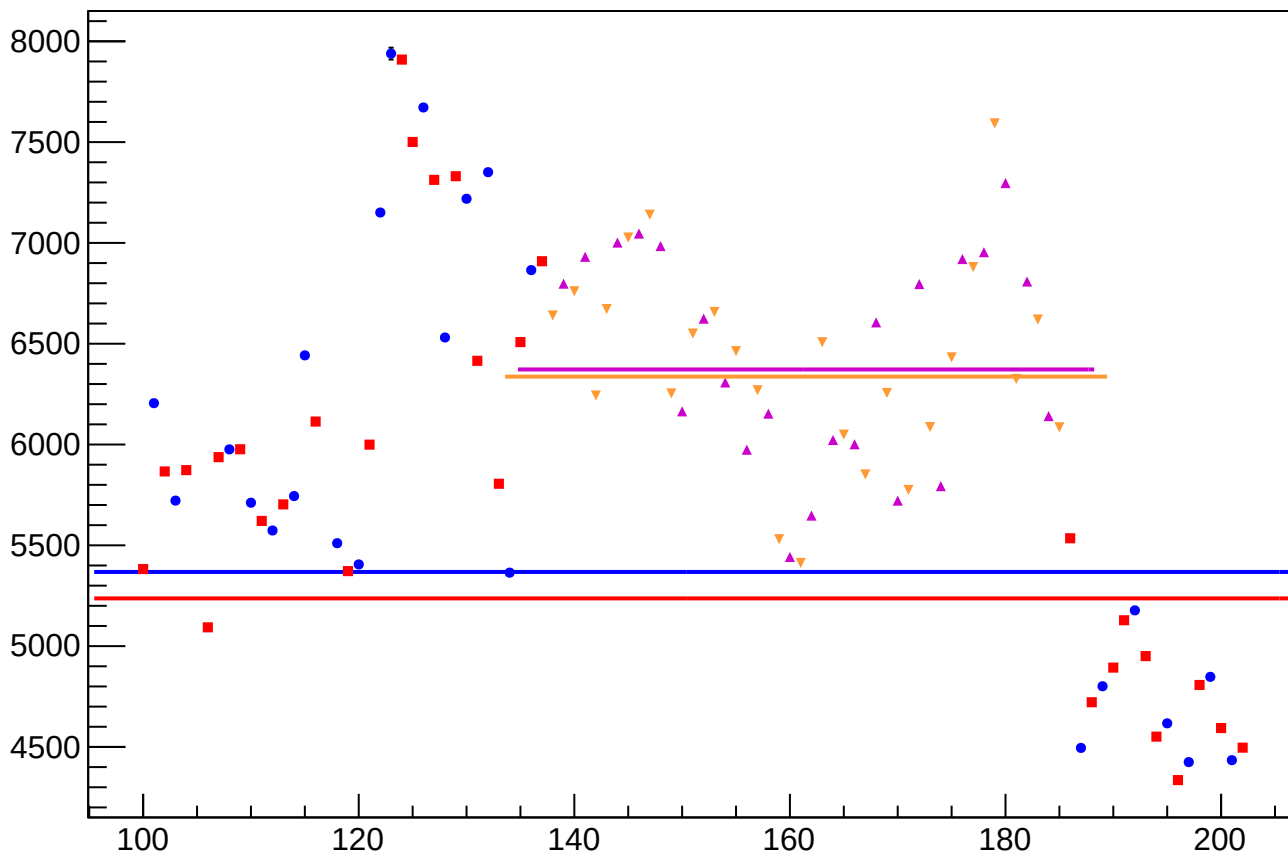
Right: -2.712 $\pm$ 1.077 χ^2/NDF : 107.7/52

In: -6.233 $\pm$ 1.115 χ^2/NDF : 96.7/46

Out: -2.559 $\pm$ 1.037 χ^2/NDF : 82.0/53

All: -4.262 $\pm$ 0.759 χ^2/NDF : 184.5/100

diff_bpm0l05X_rms vs Slug, Sign Corrected



Right In: 5367.931 $\pm$ 1.142 χ^2/NDF : 631147.9/23

Left Out: 6336.876 $\pm$ 1.052 χ^2/NDF :222912.5/24

Right Out: 5236.744 $\pm$ 1.023 χ^2/NDF : 615173.6/28

Left In: 6372.349 $\pm$ 1.090 χ^2/NDF :247257.0/22

Left: 6353.974 $\pm$ 0.757 χ^2/NDF : 470718.0/47

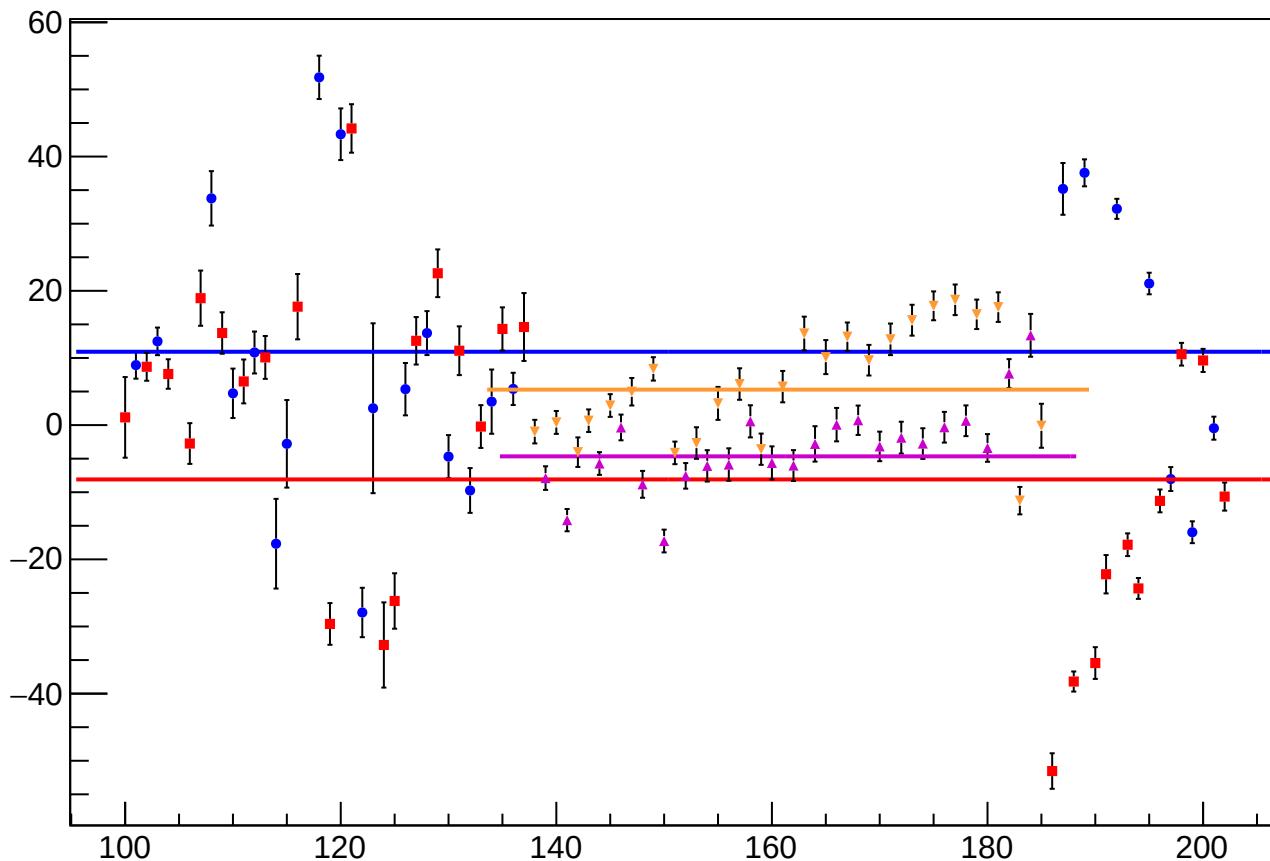
Right: 5295.103 $\pm$ 0.762 χ^2/NDF : 1253643.5/52

In: 5893.610 $\pm$ 0.789 χ^2/NDF :1283055.4/46

Out: 5771.421 $\pm$ 0.733 χ^2/NDF :1400637.3/53

All: 5828.063 $\pm$ 0.537 χ^2/NDF : 2696570.7/10

diff_bpm0l05Y_mean vs Slug, Sign Corrected



Right In: 10.924 ± 0.516 $\chi^2/\text{NDF}: 1363.9/23$

Left Out: 5.284 ± 0.421 $\chi^2/\text{NDF}: 366.1/24$

Right Out: -8.095 ± 0.465 $\chi^2/\text{NDF}: 2005.3/28$

Left In: -4.657 ± 0.443 $\chi^2/\text{NDF}: 196.5/22$

Left: 0.574 ± 0.305 $\chi^2/\text{NDF}: 827.2/47$

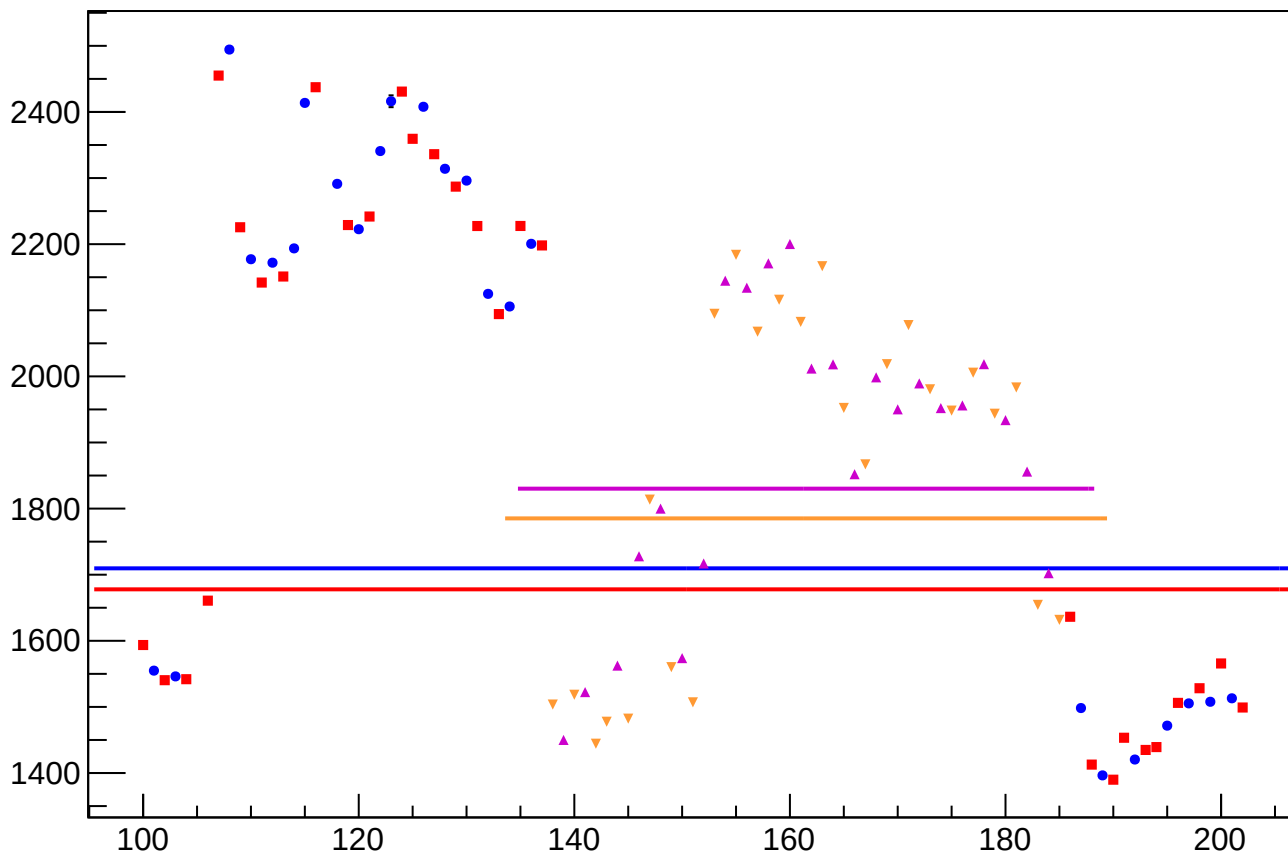
Right: 0.431 ± 0.346 $\chi^2/\text{NDF}: 4118.4/52$

In: 1.959 ± 0.336 $\chi^2/\text{NDF}: 2084.9/46$

Out: -0.735 ± 0.312 $\chi^2/\text{NDF}: 2826.4/53$

All: 0.511 ± 0.229 $\chi^2/\text{NDF}: 4945.7/100$

diff_bpm0l05Y_rms vs Slug, Sign Corrected



Right In: 1709.622 ± 0.365 $\chi^2/\text{NDF}: 959187.6/23$

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

Right Out: 1677.856 ± 0.329 $\chi^2/\text{NDF}: 1018764.3/28$

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

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

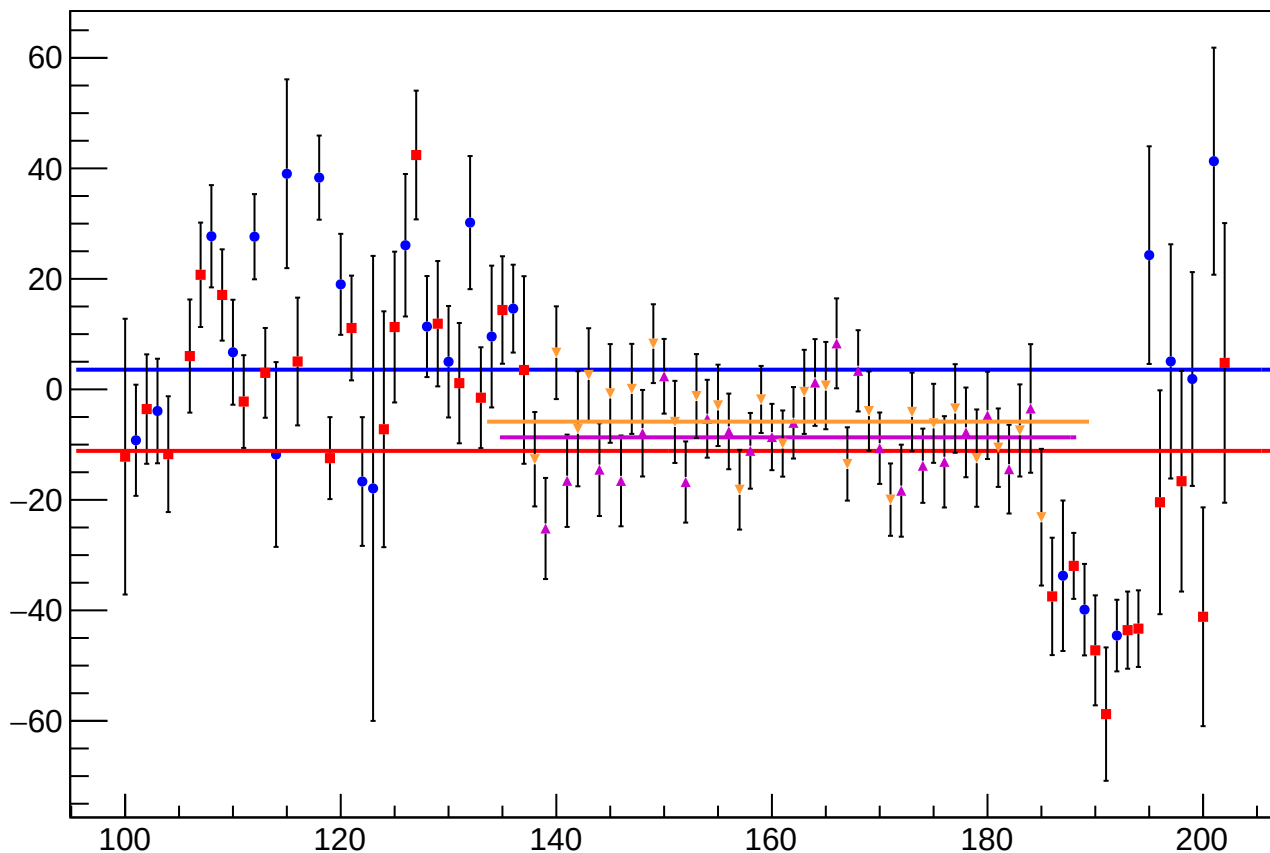
Right: 1692.096 ± 0.244 $\chi^2/\text{NDF}: 1982132.5/52$

In: 1778.979 ± 0.238 $\chi^2/\text{NDF}: 1530356.2/46$

Out: 1736.897 ± 0.221 $\chi^2/\text{NDF}: 1827952.6/53$

All: 1756.365 ± 0.162 $\chi^2/\text{NDF}: 3375138.5/100$

diff_bpm0l06X_mean vs Slug, Sign Corrected



Right In: 3.565 ± 2.157 χ^2/NDF : 156.5/23

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

Right Out: -11.133 ± 1.877 χ^2/NDF : 169.2/28

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

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

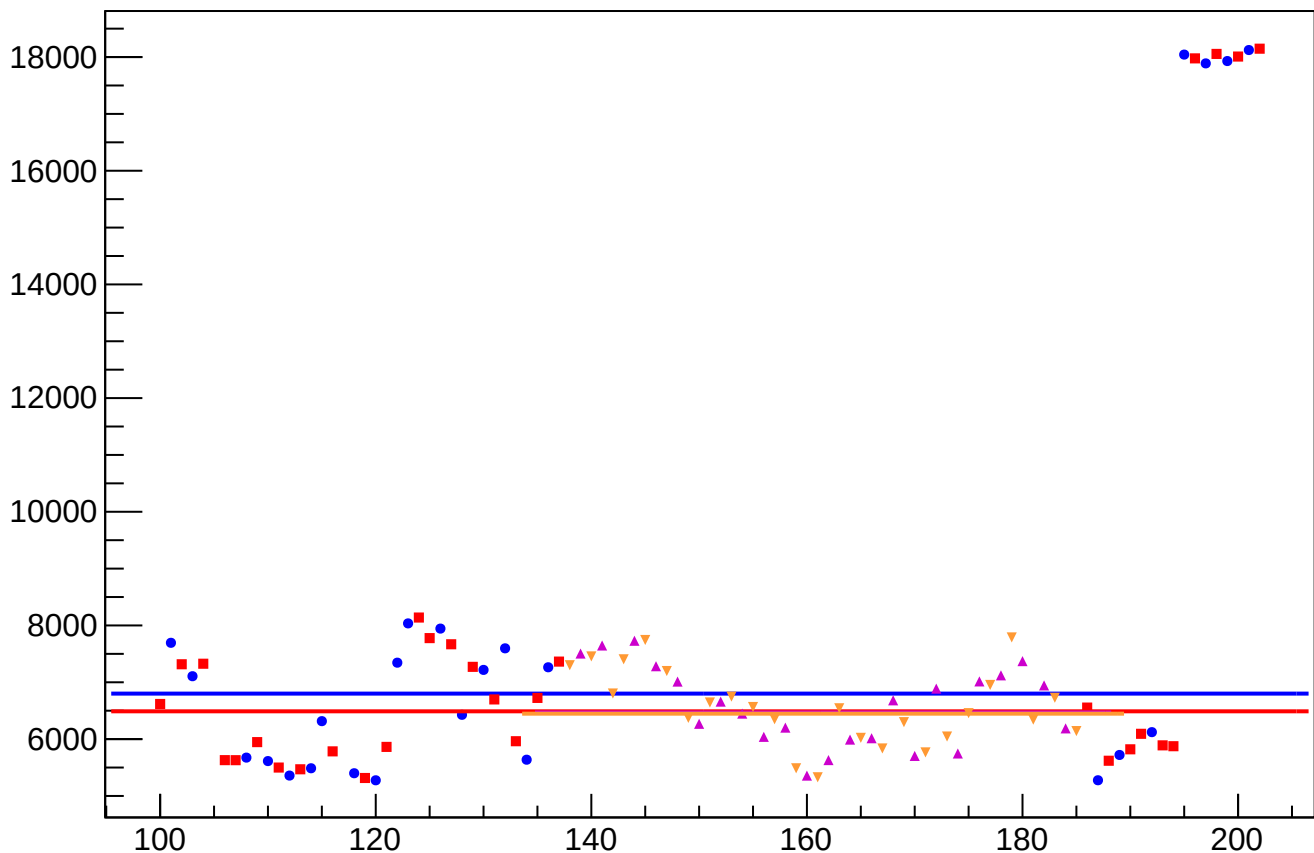
Right: -4.798 ± 1.416 χ^2/NDF : 352.1/52

In: -4.439 ± 1.270 χ^2/NDF : 199.5/46

Out: -7.933 ± 1.181 χ^2/NDF : 197.3/53

All: -6.313 ± 0.865 χ^2/NDF : 400.9/100

diff_bpm0l06X_rms vs Slug, Sign Corrected



Right In: 6800.737 $\pm$ 1.525 χ^2 /NDF: 2894911.1/23

Left Out: 6447.712 $\pm$ 1.074 χ^2 /NDF: 371671.1/24

Right Out: 6489.145 $\pm$ 1.327 χ^2 /NDF: 2763625.9/28

Left In: 6468.902 $\pm$ 1.111 χ^2 /NDF: 383325.4/22

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

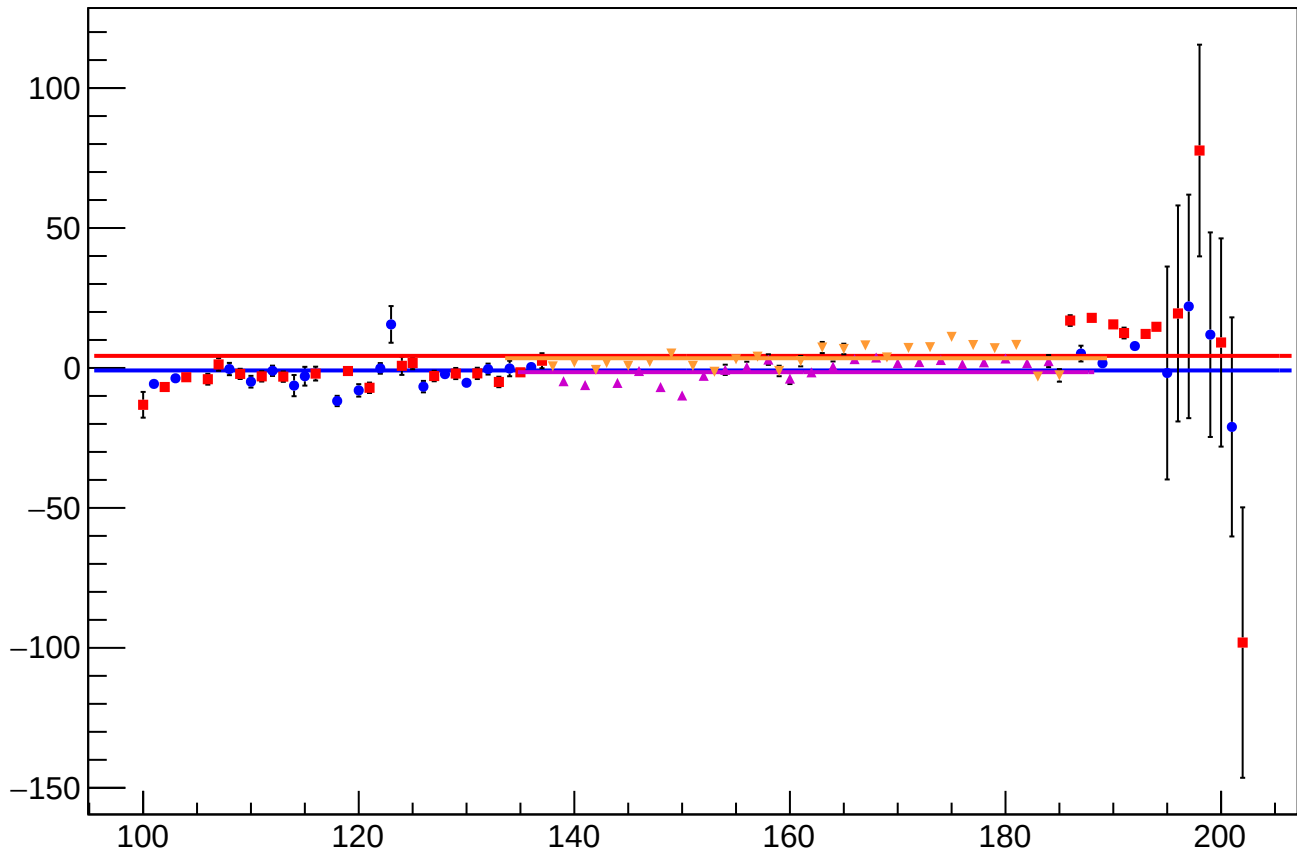
Right: 6623.444 $\pm$ 1.001 χ^2 /NDF: 5682286.8/52

In: 6583.884 $\pm$ 0.898 χ^2 /NDF: 3309172.8/46

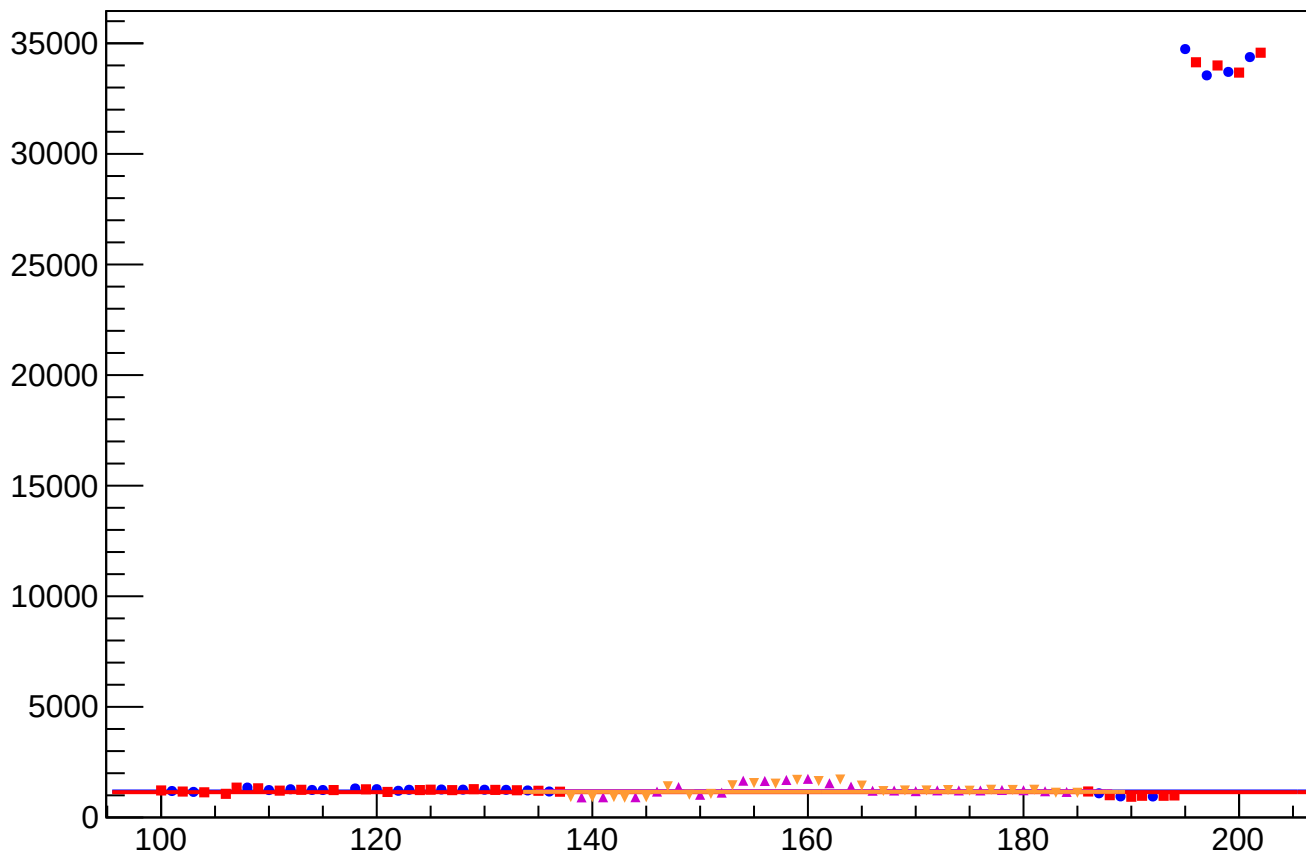
Out: 6464.097 $\pm$ 0.835 χ^2 /NDF: 3135886.0/53

All: 6519.639 $\pm$ 0.611 χ^2 /NDF: 6454607.1/100

diff_bpm0l06Y_mean vs Slug, Sign Corrected



diff_bpm0l06Y_rms vs Slug, Sign Corrected



Right In: 1173.775+/-0.287 χ^2/NDF : 6108923.9/23

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

Right Out: 1142.941+/-0.251 χ^2/NDF : 5702255.1/28

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

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

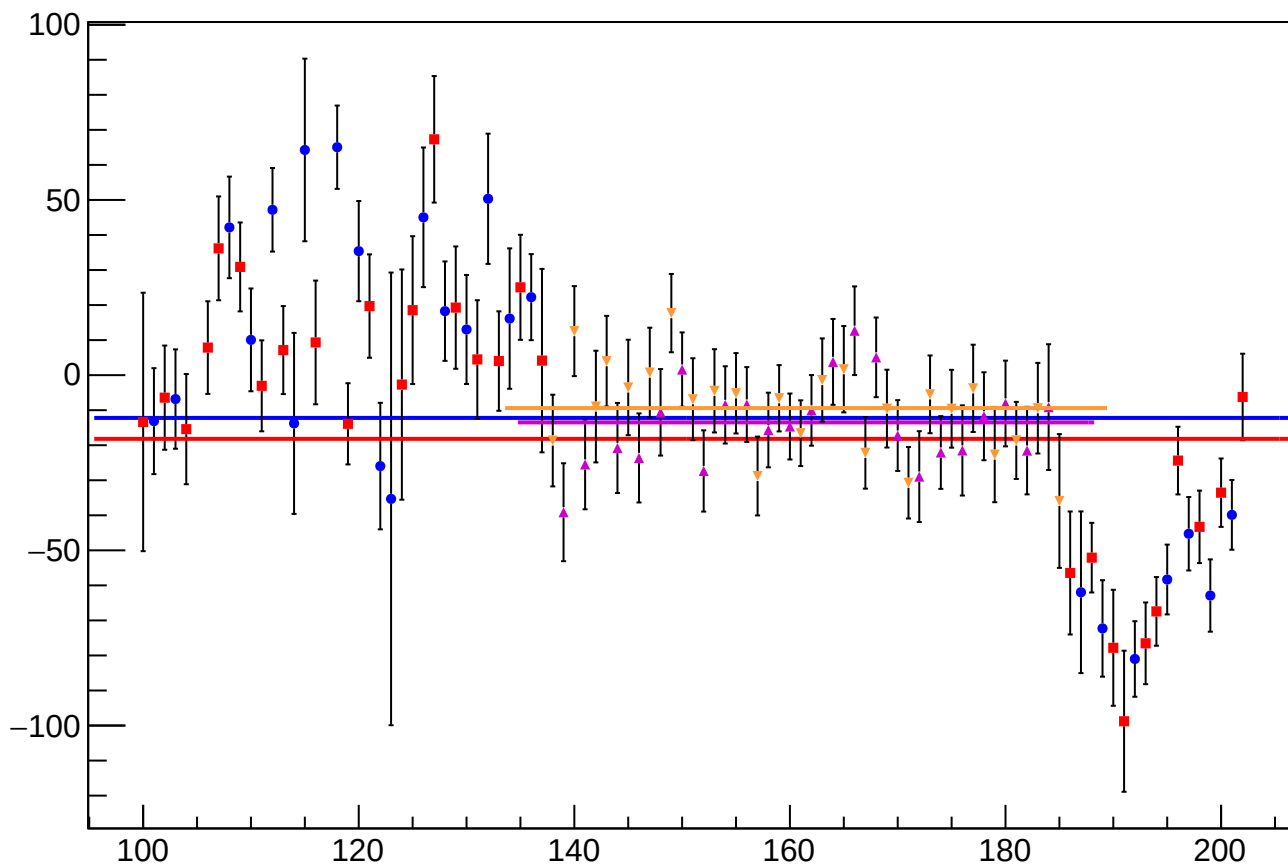
Right: 1156.294+/-0.189 χ^2/NDF : 11817728.8/52

In: 1181.171+/-0.167 χ^2/NDF : 7300361.1/46

Out: 1152.865+/-0.154 χ^2/NDF : 7115197.2/53

All: 1165.880+/-0.113 χ^2/NDF : 14431065.2/100

diff_bpm0l07X_mean vs Slug, Sign Corrected



Right In: -12.205+/-2.861 χ^2/NDF : 268.4/23

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

Right Out: -18.175+/-2.568 χ^2/NDF : 196.6/28

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

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

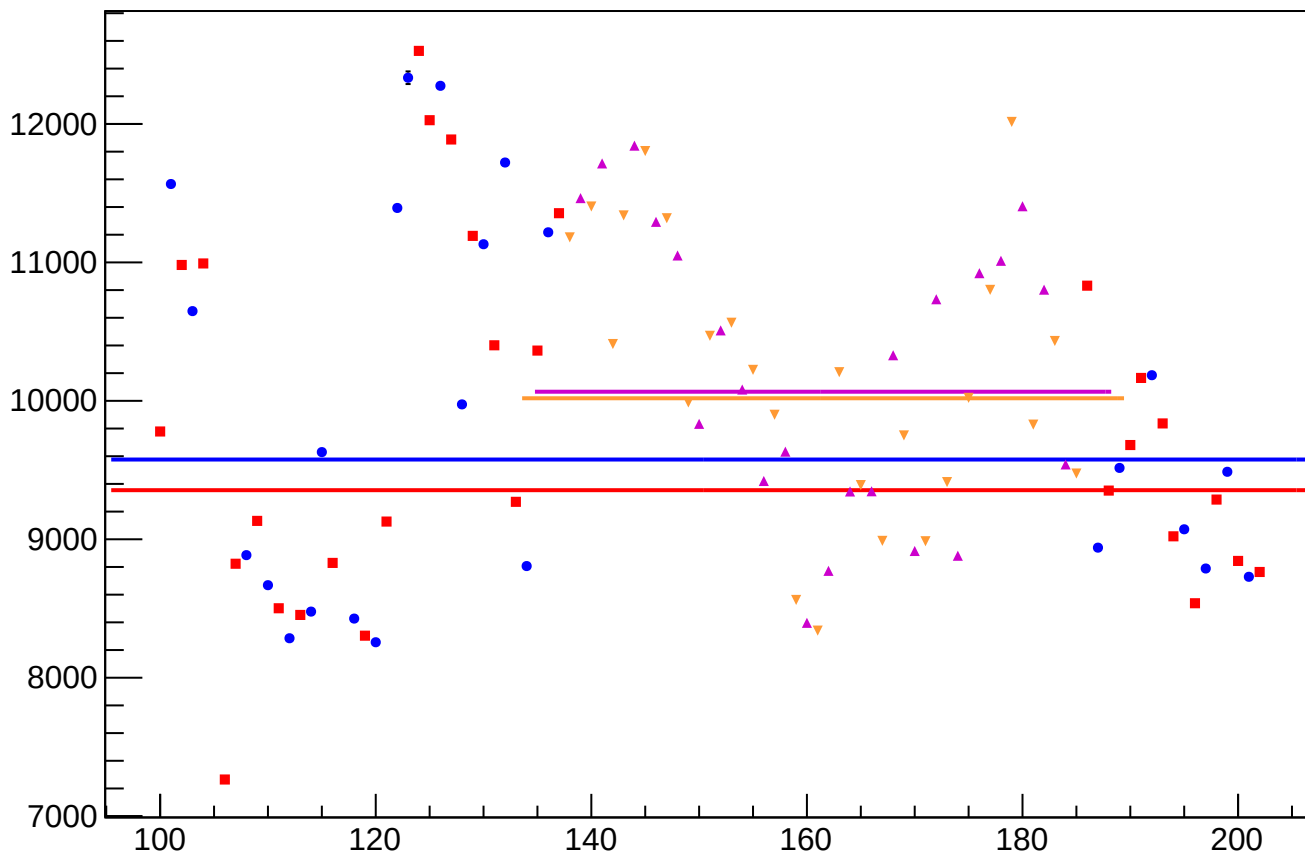
Right: -15.512+/-1.911 χ^2/NDF : 467.4/52

In: -12.945+/-1.858 χ^2/NDF : 290.1/46

Out: -13.414+/-1.737 χ^2/NDF : 229.2/53

All: -13.195+/-1.269 χ^2/NDF : 519.3/100

diff_bpm0l07X_rms vs Slug, Sign Corrected



Right In: 9576.104 $\pm$ 2.023 χ^2/NDF : 307621.7/23

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

Right Out: 9354.667 $\pm$ 1.816 χ^2/NDF : 325874.6/28

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

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

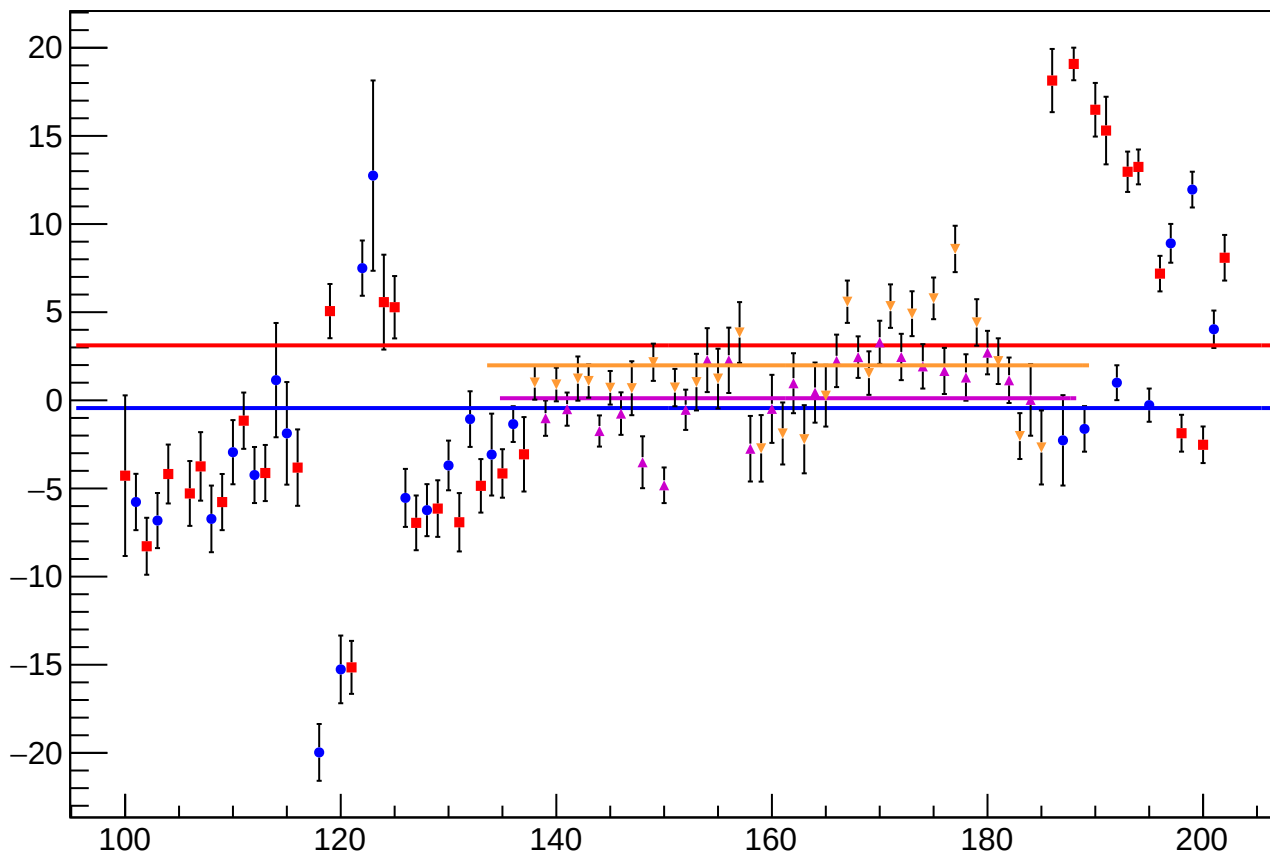
Right: 9453.460 $\pm$ 1.351 χ^2/NDF : 640130.4/52

In: 9859.416 $\pm$ 1.314 χ^2/NDF : 699388.8/46

Out: 9714.809 $\pm$ 1.228 χ^2/NDF : 742917.3/53

All: 9782.260 $\pm$ 0.897 χ^2/NDF : 1448771.0/10

diff_bpm0l07Y_mean vs Slug, Sign Corrected



Right In: -0.439 $\pm$ 0.294 χ^2/NDF : 560.4/23

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

Right Out: 3.117 $\pm$ 0.269 χ^2/NDF : 1250.2/28

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

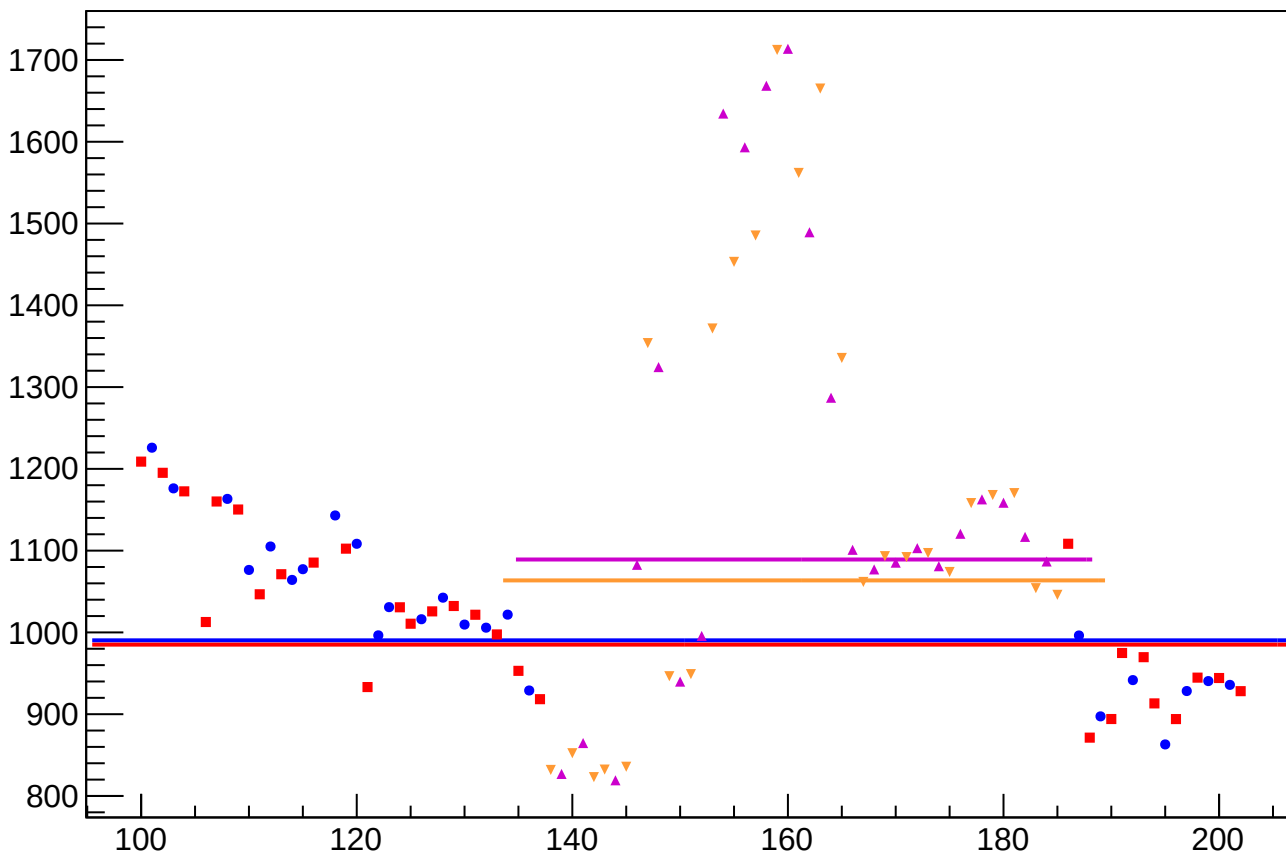
Right: 1.497 $\pm$ 0.198 χ^2/NDF : 1890.3/52

In: -0.135 $\pm$ 0.198 χ^2/NDF :629.9/46

Out: 2.520 $\pm$ 0.185 χ^2/NDF :1360.8/53

All: 1.285 $\pm$ 0.135 χ^2/NDF : 2086.5/100

diff_bpm0l07Y_rms vs Slug, Sign Corrected



Right In: 990.301 $\pm$ 0.208 χ^2 /NDF: 211303.8/23

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

Right Out: 985.075 $\pm$ 0.190 χ^2 /NDF: 221615.9/28

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

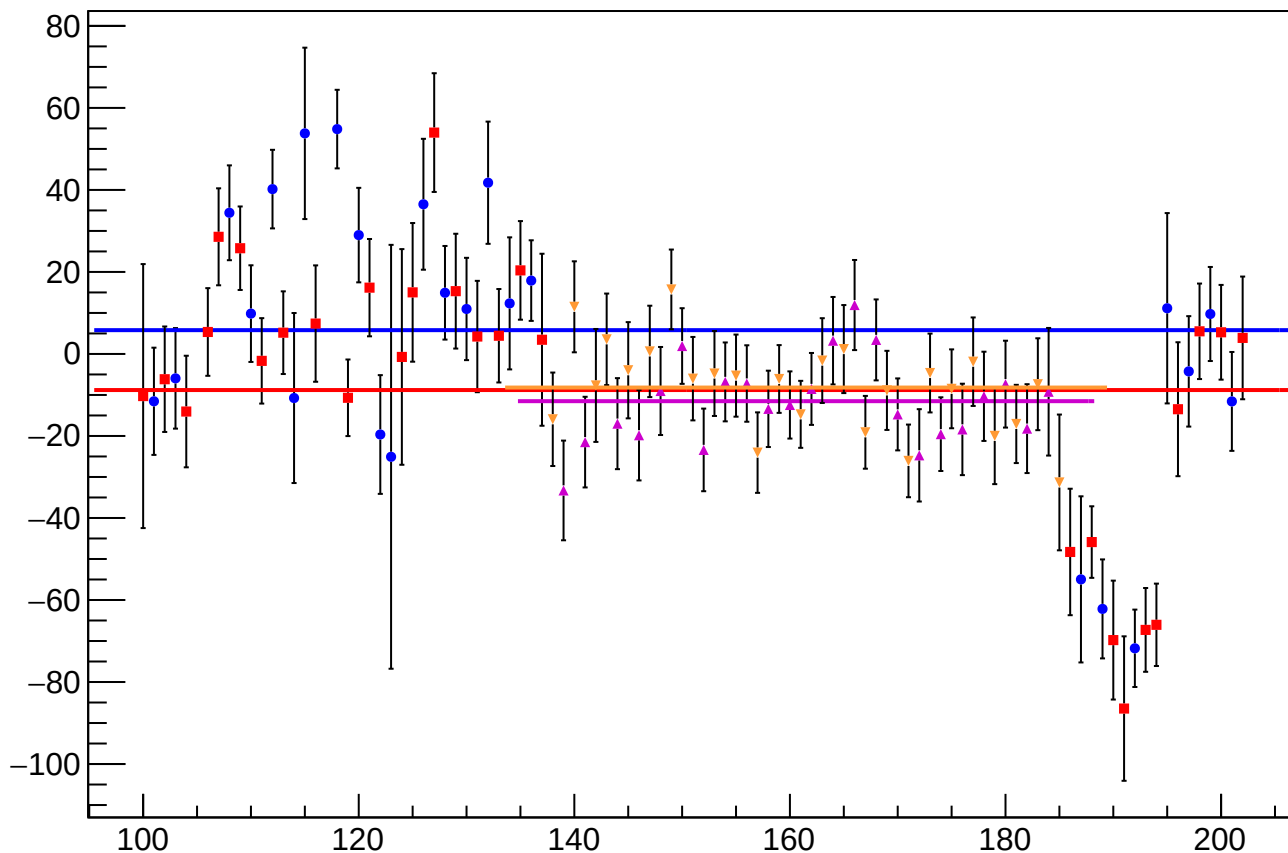
Right: 987.456 $\pm$ 0.140 χ^2 /NDF: 433263.7/52

In: 1044.168 $\pm$ 0.140 χ^2 /NDF:1764975.7/46

Out: 1026.463 $\pm$ 0.131 χ^2 /NDF:1928820.8/53

All: 1034.699 $\pm$ 0.096 χ^2 /NDF: 3702319.3/100

diff_bpm0l08X_mean vs Slug, Sign Corrected



Right In: 5.803 ± 2.623 $\chi^2/\text{NDF}: 184.5/23$

Left Out: -8.195 ± 2.049 $\chi^2/\text{NDF}: 26.2/24$

Right Out: -8.801 ± 2.321 $\chi^2/\text{NDF}: 194.8/28$

Left In: -11.515 ± 2.122 $\chi^2/\text{NDF}: 21.0/22$

Left: -9.796 ± 1.474 $\chi^2/\text{NDF}: 48.5/47$

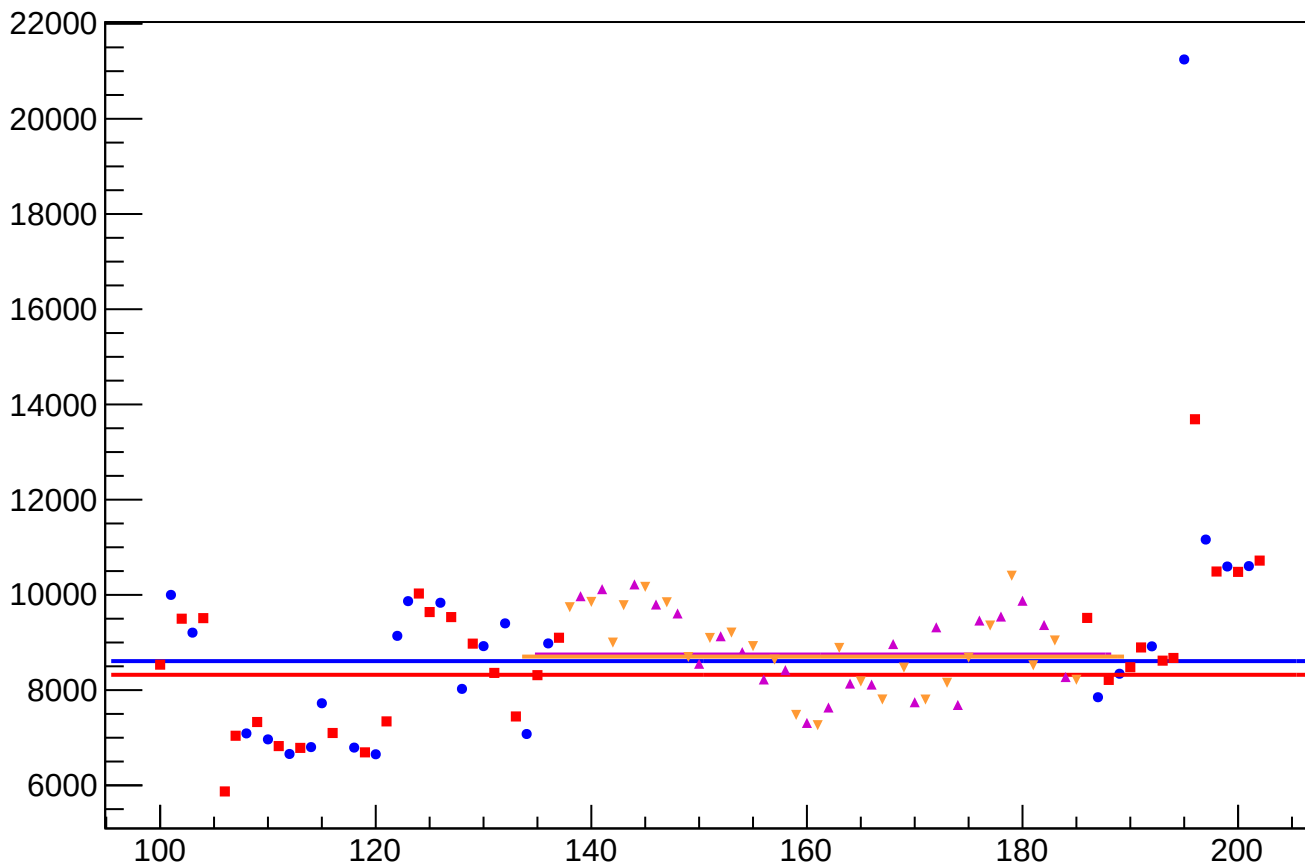
Right: -2.386 ± 1.738 $\chi^2/\text{NDF}: 396.7/52$

In: -4.662 ± 1.650 $\chi^2/\text{NDF}: 231.9/46$

Out: -8.460 ± 1.536 $\chi^2/\text{NDF}: 221.0/53$

All: -6.697 ± 1.124 $\chi^2/\text{NDF}: 455.8/100$

diff_bpm0l08X_rms vs Slug, Sign Corrected



Right In: 8609.078 $\pm$ 1.855 χ^2/NDF : 1166416.3/23

Left Out: 8704.193 $\pm$ 1.449 χ^2/NDF : 332364.3/24

Right Out: 8321.588 $\pm$ 1.641 χ^2/NDF : 835974.5/28

Left In: 8747.415 $\pm$ 1.501 χ^2/NDF : 347110.4/22

Left: 8725.041 $\pm$ 1.042 χ^2/NDF : 679904.0/47

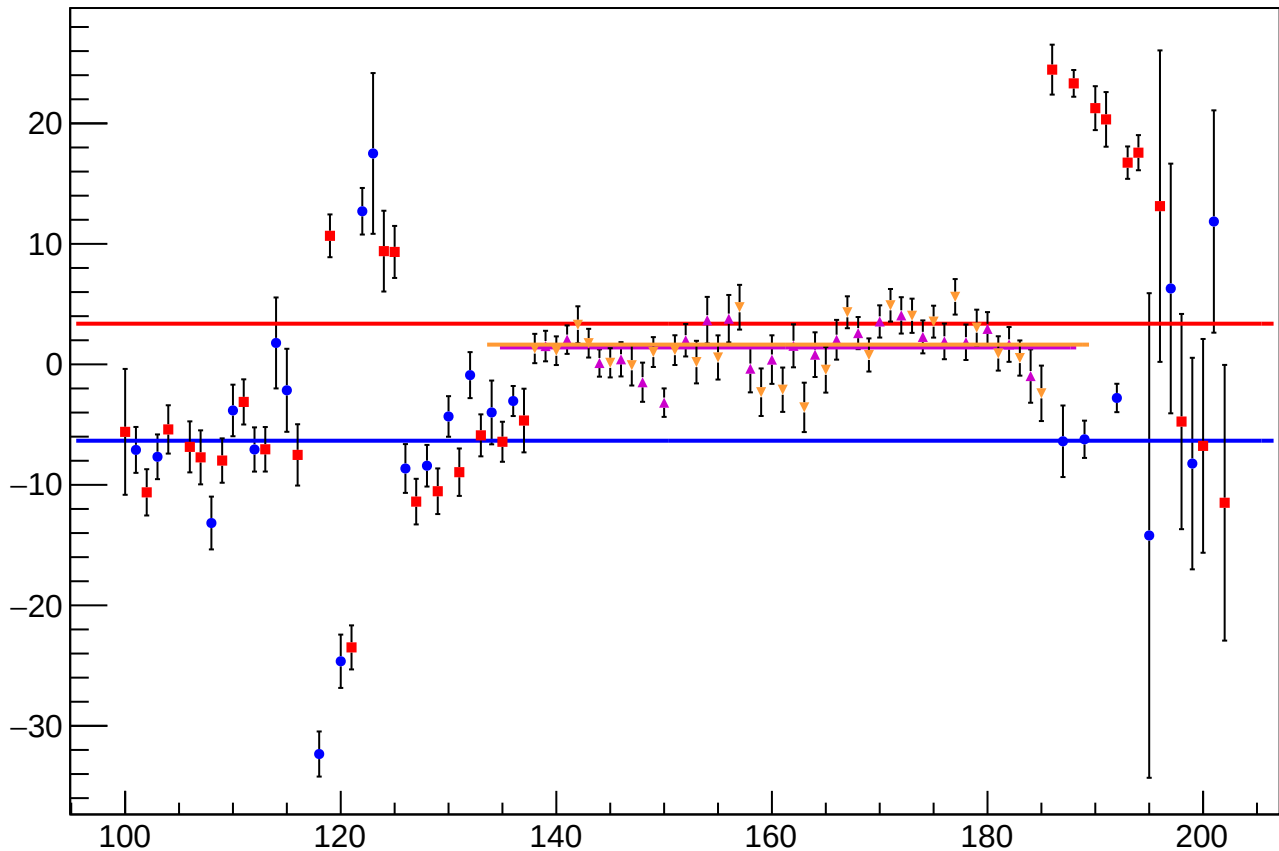
Right: 8447.870 $\pm$ 1.229 χ^2/NDF : 2015866.6/52

In: 8692.673 $\pm$ 1.167 χ^2/NDF : 1516889.1/46

Out: 8536.664 $\pm$ 1.086 χ^2/NDF : 1198883.5/53

All: 8609.101 $\pm$ 0.795 χ^2/NDF : 2725352.5/100

diff_bpm0l08Y_mean vs Slug, Sign Corrected



Right In: -6.337 ± 0.426 χ^2/NDF : 423.9/23

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

Right Out: 3.376 ± 0.373 χ^2/NDF : 1470.3/28

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

Left: 1.528 ± 0.213 χ^2/NDF : 85.8/47

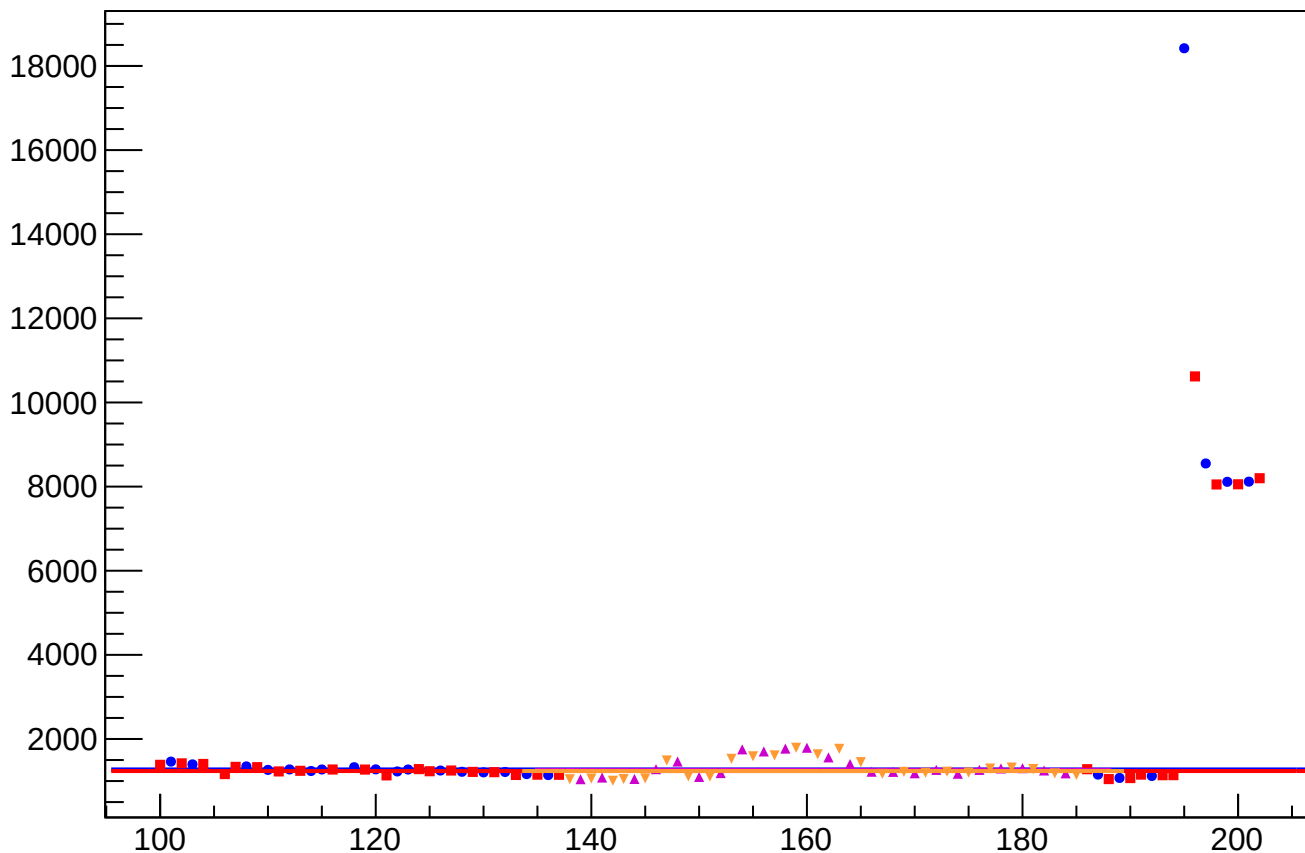
Right: -0.839 ± 0.281 χ^2/NDF : 2188.1/52

In: -1.262 ± 0.250 χ^2/NDF : 674.3/46

Out: 2.303 ± 0.231 χ^2/NDF : 1535.0/53

All: 0.664 ± 0.170 χ^2/NDF : 2319.0/100

diff_bpm0l08Y_rms vs Slug, Sign Corrected



Right In: 1276.009+/-0.301 χ^2/NDF : 4892123.2/23

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

Right Out: 1237.932+/-0.264 χ^2/NDF : 4305887.5/28

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

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

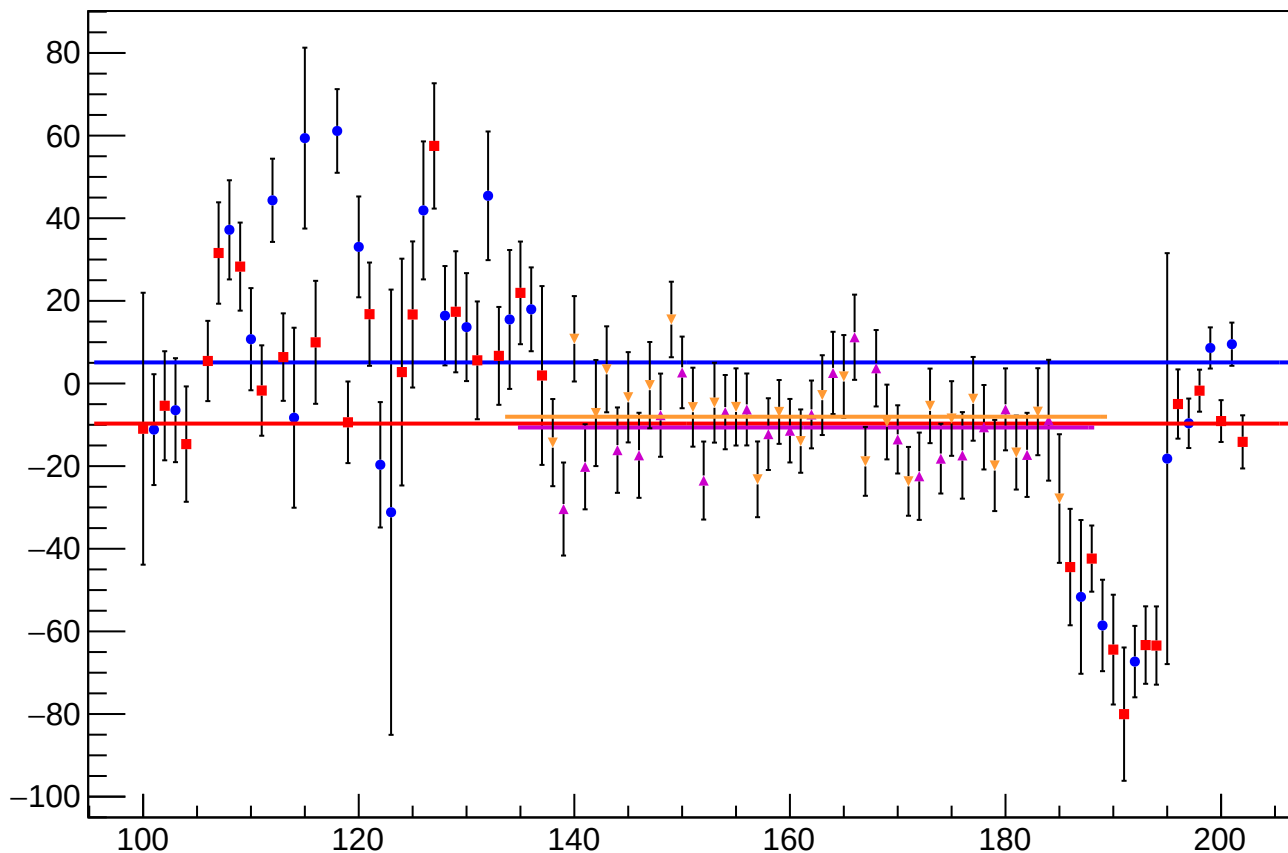
Right: 1254.456+/-0.199 χ^2/NDF : 9207045.1/52

In: 1269.234+/-0.177 χ^2/NDF : 5738051.1/46

Out: 1238.244+/-0.163 χ^2/NDF : 5271062.8/53

All: 1252.490+/-0.120 χ^2/NDF : 11025696.0/100

diff_bpm0l09X_mean vs Slug, Sign Corrected



Right In: 5.102 ± 2.113 χ^2/NDF : 205.3/23

Left Out: -8.042 ± 1.918 χ^2/NDF : 26.3/24

Right Out: -9.703 ± 1.892 χ^2/NDF : 197.9/28

Left In: -10.653 ± 1.988 χ^2/NDF : 21.4/22

Left: -9.301 ± 1.380 χ^2/NDF : 48.6/47

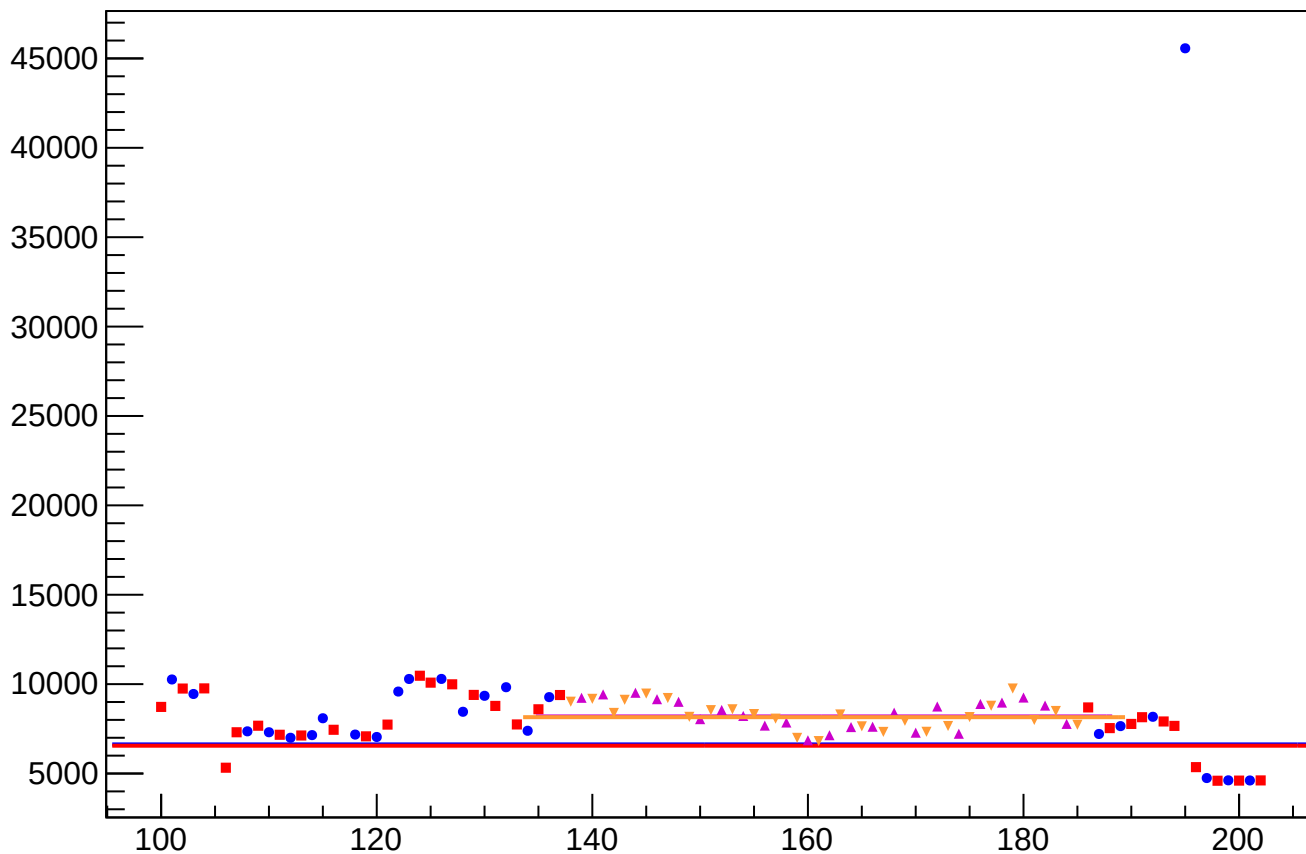
Right: -3.114 ± 1.410 χ^2/NDF : 430.4/52

In: -3.258 ± 1.448 χ^2/NDF : 256.2/46

Out: -8.884 ± 1.347 χ^2/NDF : 224.6/53

All: -6.273 ± 0.986 χ^2/NDF : 488.9/100

diff_bpm0l09X_rms vs Slug, Sign Corrected



Right In: 6628.944+/-1.494 χ^2/NDF : 2949752.5/23

Left Out: 8151.489+/-1.356 χ^2/NDF : 321803.3/24

Right Out: 6555.833+/-1.338 χ^2/NDF : 1790147.3/28

Left In: 8193.636+/-1.405 χ^2/NDF : 338377.6/22

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

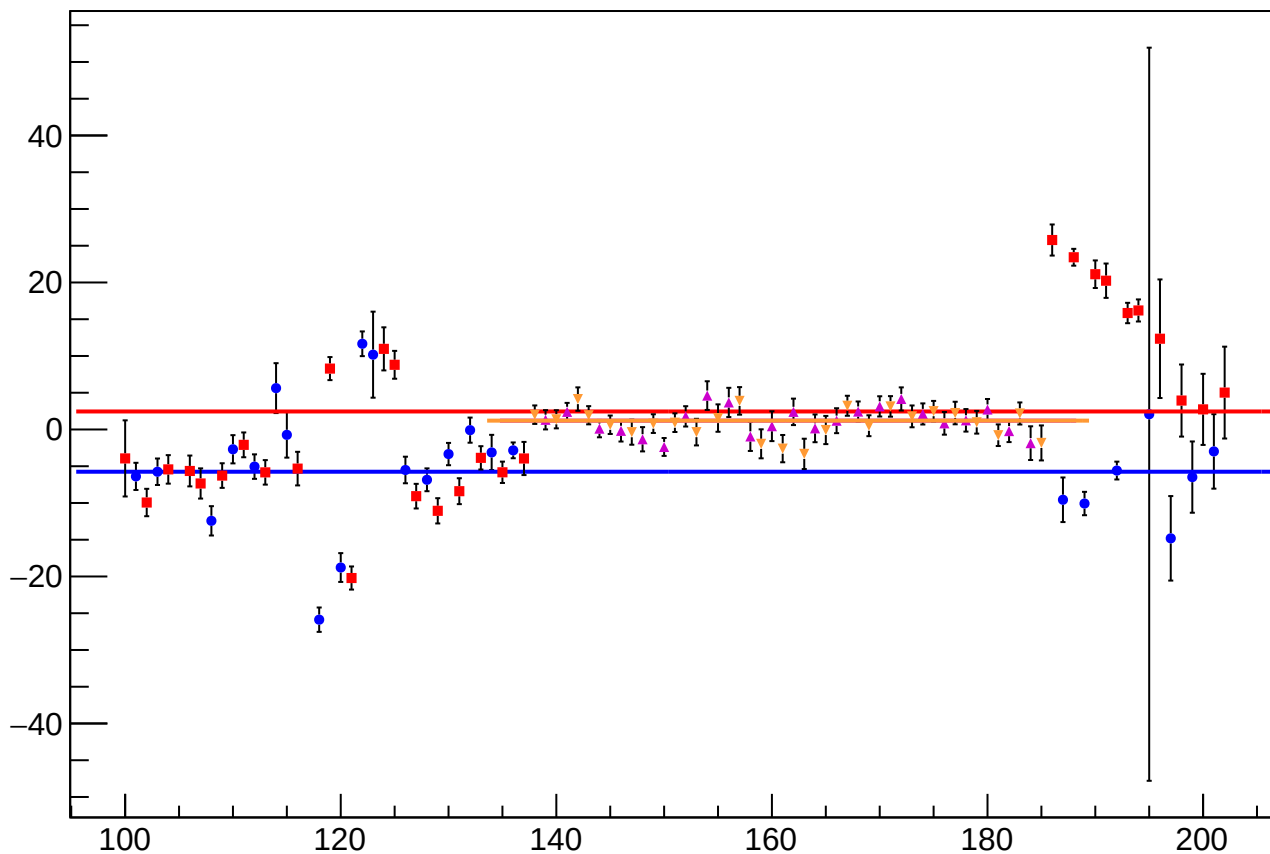
Right: 6588.369+/-0.997 χ^2/NDF : 4741228.4/52

In: 7459.193+/-1.024 χ^2/NDF : 3869928.8/46

Out: 7342.850+/-0.953 χ^2/NDF : 2813337.2/53

All: 7396.836+/-0.697 χ^2/NDF : 6690188.0/100

diff_bpm0l09Y_mean vs Slug, Sign Corrected



Right In: -5.748 ± 0.392 χ^2/NDF : 368.6/23

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

Right Out: 2.450 ± 0.350 χ^2/NDF : 1408.3/28

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

Left: 1.201 ± 0.219 χ^2/NDF : 61.1/47

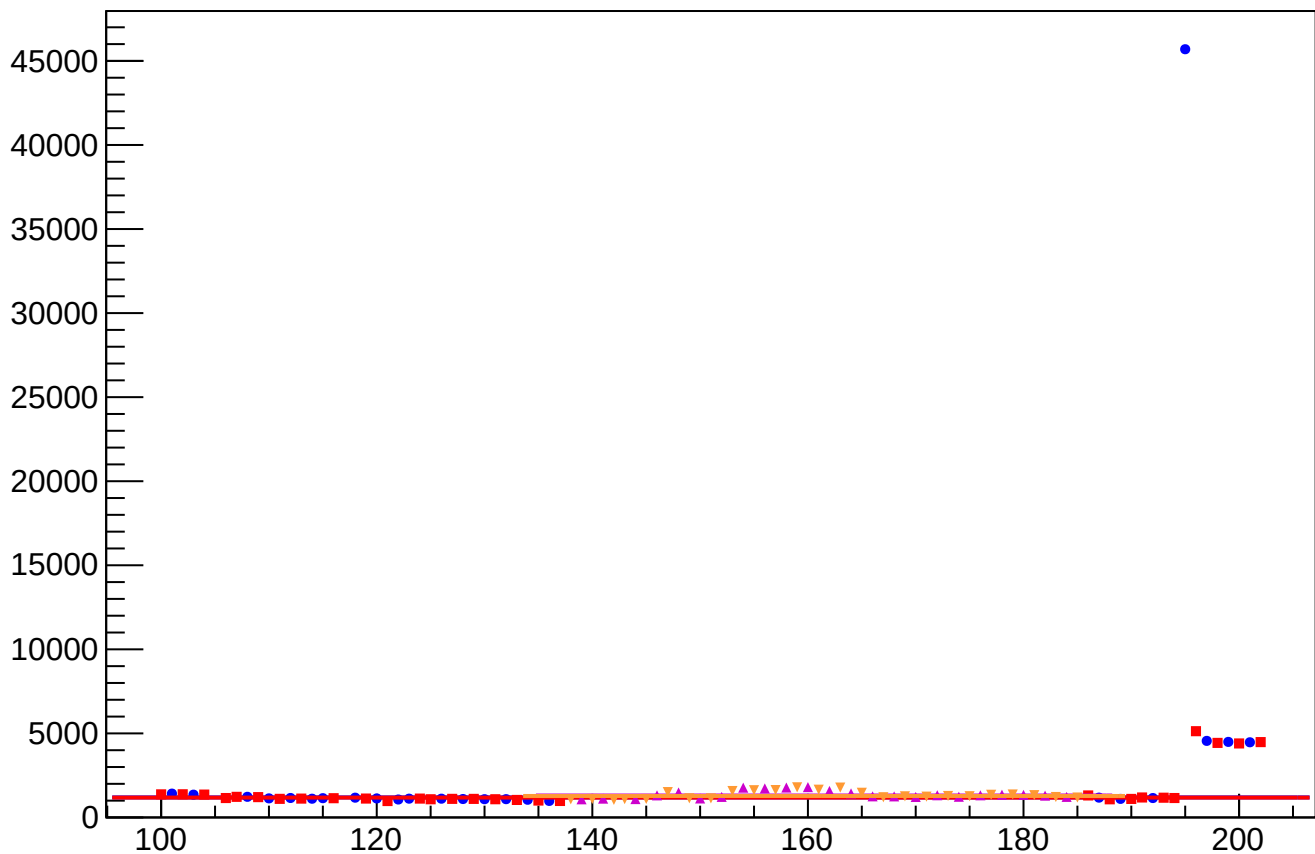
Right: -1.193 ± 0.261 χ^2/NDF : 2020.3/52

In: -1.563 ± 0.247 χ^2/NDF : 589.2/46

Out: 1.736 ± 0.229 χ^2/NDF : 1445.5/53

All: 0.211 ± 0.168 χ^2/NDF : 2130.7/100

diff_bpm0l09Y_rms vs Slug, Sign Corrected



Right In: 1191.451+/-0.277 χ^2/NDF : 4225625.8/23

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

Right Out: 1181.588+/-0.248 χ^2/NDF : 2999722.7/28

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

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

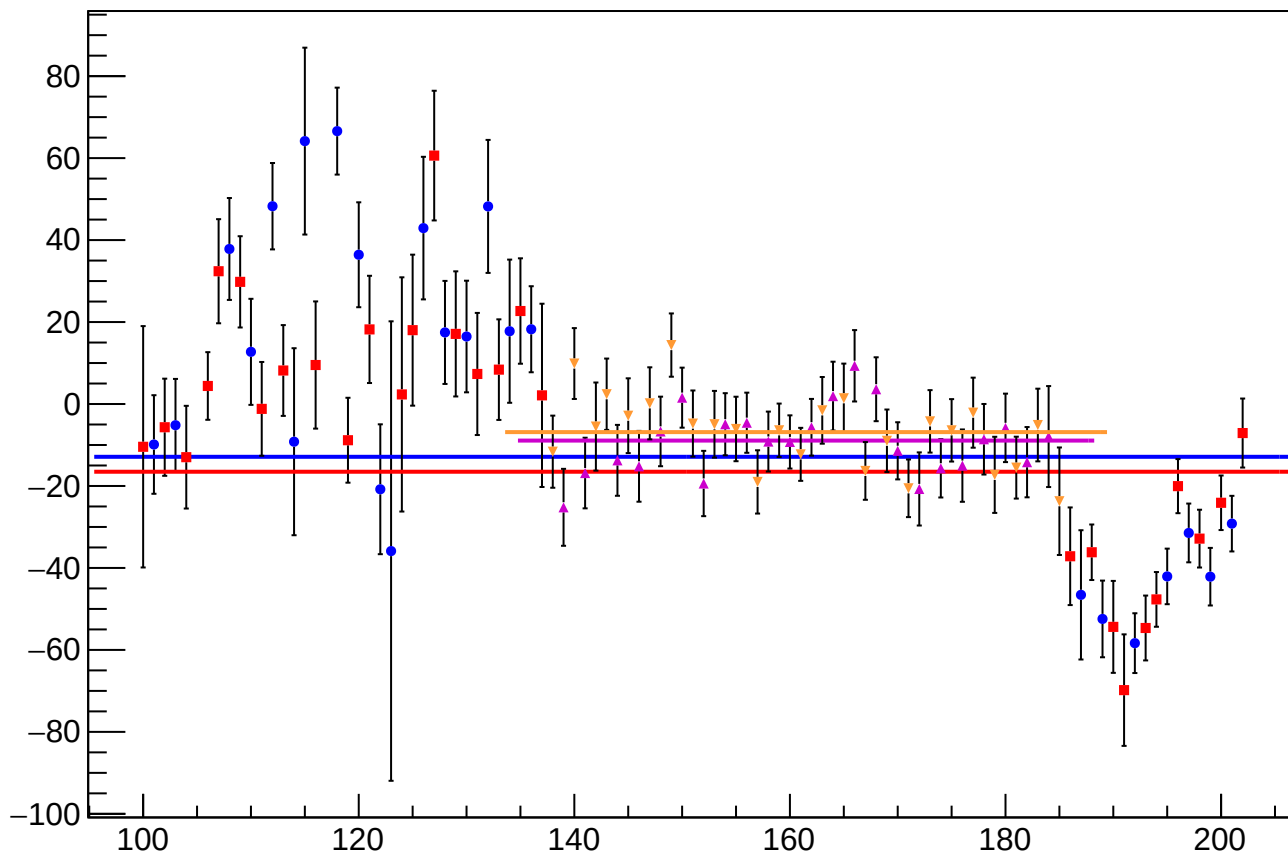
Right: 1185.971+/-0.185 χ^2/NDF : 7226052.8/52

In: 1260.195+/-0.175 χ^2/NDF : 5088300.8/46

Out: 1236.783+/-0.162 χ^2/NDF : 3964485.8/53

All: 1247.604+/-0.119 χ^2/NDF : 9062454.5/100

diff_bpm0l10X_mean vs Slug, Sign Corrected



Right In: -12.880 $\pm$ 2.193 χ^2/NDF : 294.0/23

Left Out: -6.854 $\pm$ 1.616 χ^2/NDF : 28.7/24

Right Out: -16.524 $\pm$ 1.922 χ^2/NDF : 197.3/28

Left In: -8.923 $\pm$ 1.674 χ^2/NDF : 21.8/22

Left: -7.852 $\pm$ 1.163 χ^2/NDF : 51.3/47

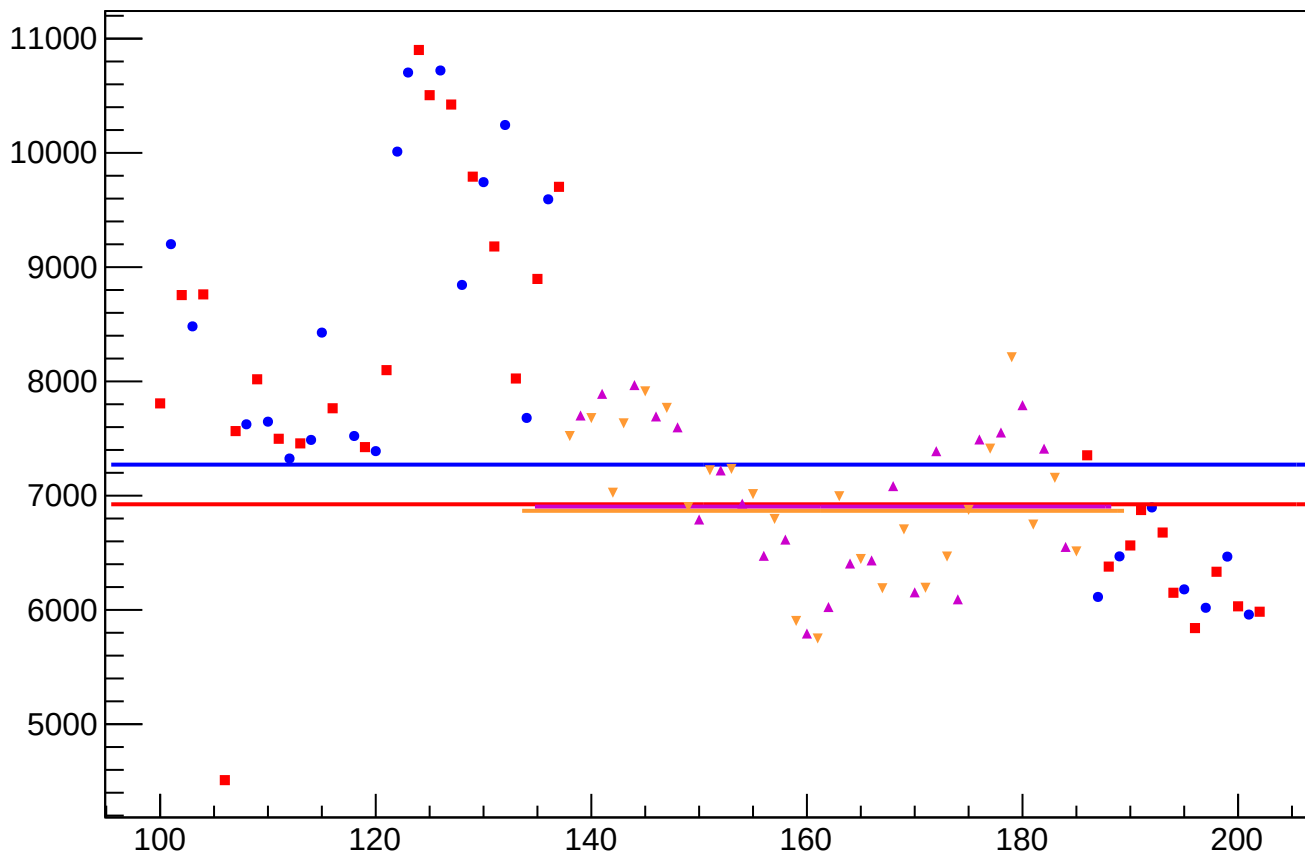
Right: -14.941 $\pm$ 1.445 χ^2/NDF : 492.9/52

In: -10.380 $\pm$ 1.331 χ^2/NDF : 317.9/46

Out: -10.858 $\pm$ 1.237 χ^2/NDF : 240.8/53

All: -10.636 $\pm$ 0.906 χ^2/NDF : 558.8/100

diff_bpm0l10X_rms vs Slug, Sign Corrected



Right In: 7271.624+/-1.551 χ^2 /NDF: 738471.6/23

Left Out: 6867.371+/-1.142 χ^2 /NDF:306895.0/24

Right Out: 6924.504+/-1.359 χ^2 /NDF: 922329.2/28

Left In: 6904.117+/-1.184 χ^2 /NDF:325912.6/22

Left: 6885.088+/-0.822 χ^2 /NDF: 633306.5/47

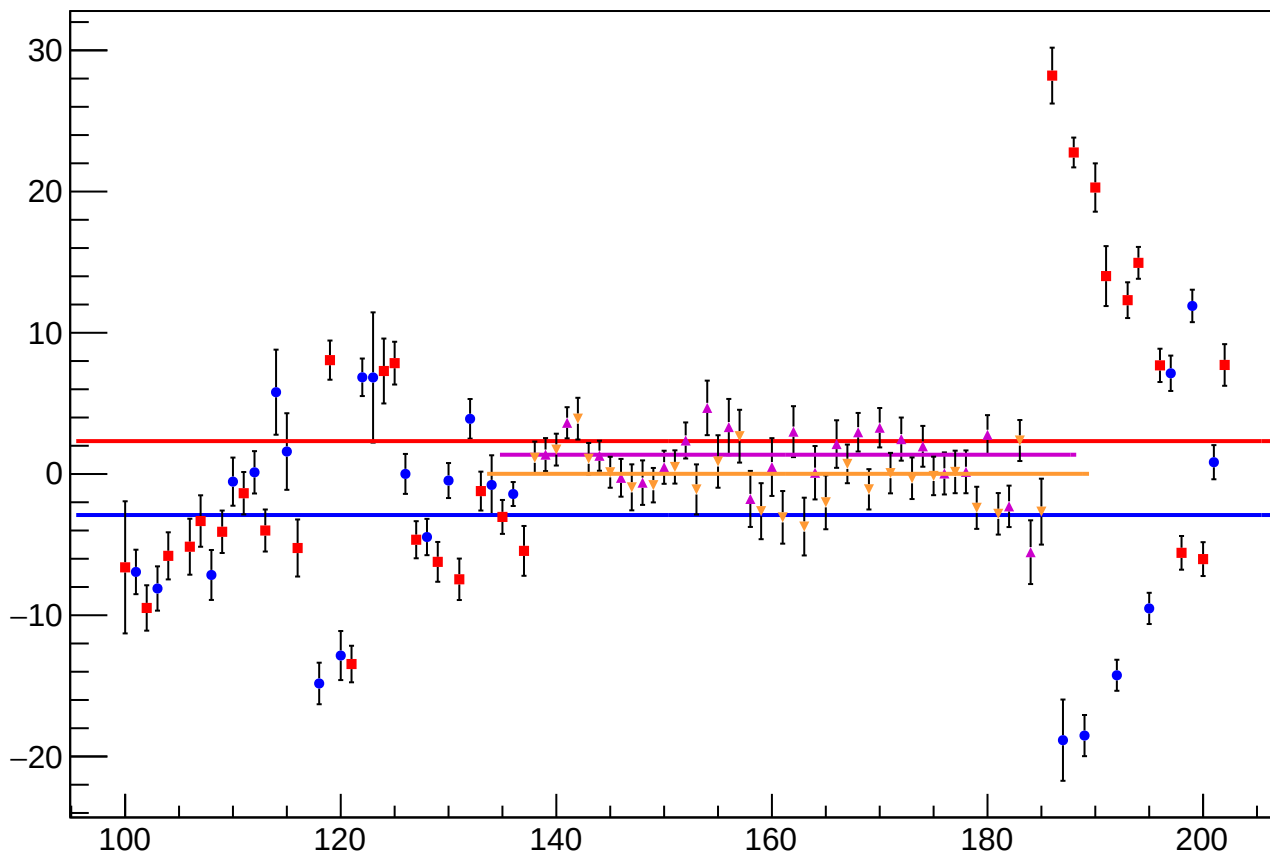
Right: 7075.313+/-1.022 χ^2 /NDF: 1689141.3/52

In: 7039.458+/-0.941 χ^2 /NDF:1099869.4/46

Out: 6891.024+/-0.874 χ^2 /NDF:1230259.7/53

All: 6959.810+/-0.641 χ^2 /NDF: 2343480.5/100

diff_bpm0l10Y_mean vs Slug, Sign Corrected



Right In: -2.904 ± 0.291 χ^2/NDF : 762.4/23

Left Out: 0.014 ± 0.290 χ^2/NDF : 35.0/24

Right Out: 2.330 ± 0.272 χ^2/NDF : 1501.4/28

Left In: 1.365 ± 0.306 χ^2/NDF : 38.5/22

Left: 0.654 ± 0.210 χ^2/NDF : 83.8/47

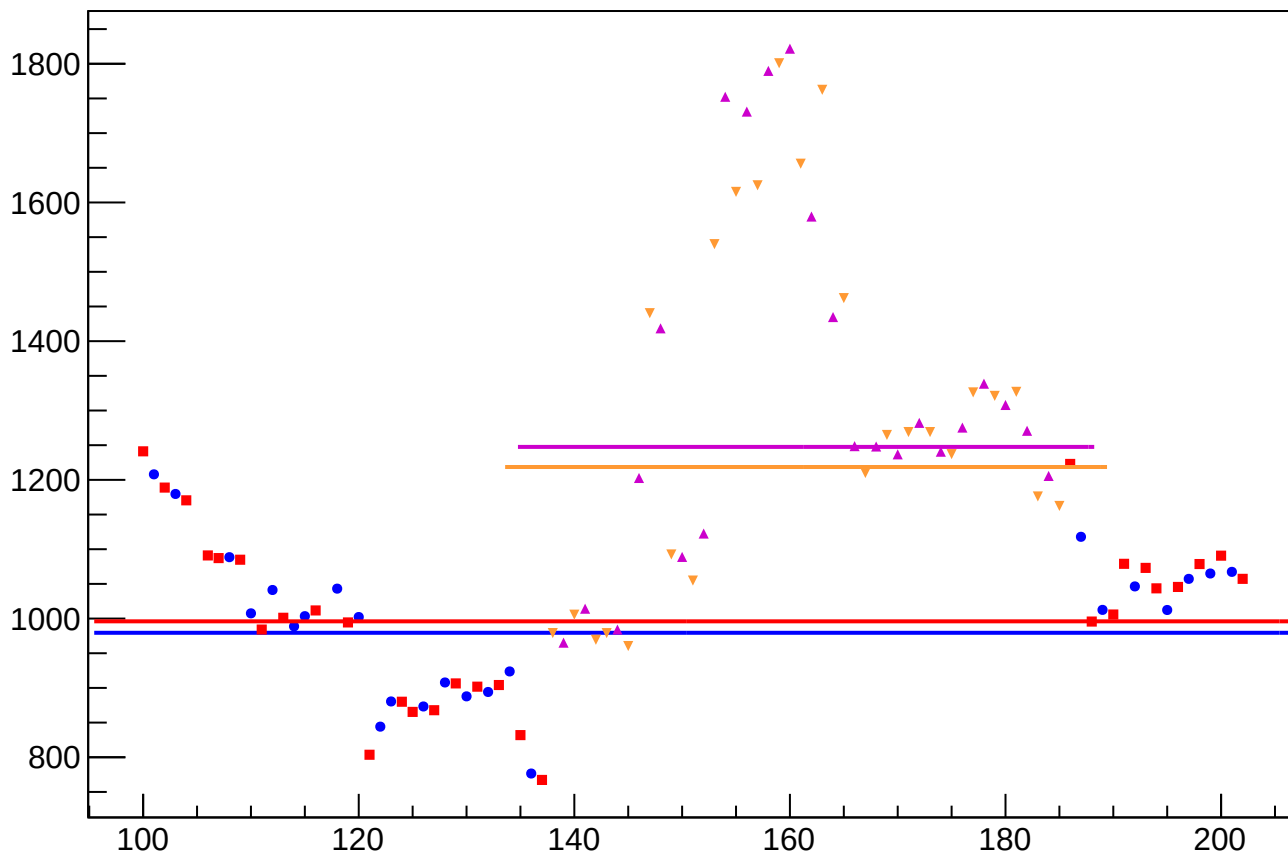
Right: -0.111 ± 0.199 χ^2/NDF : 2435.9/52

In: -0.870 ± 0.211 χ^2/NDF : 903.1/46

Out: 1.244 ± 0.199 χ^2/NDF : 1570.3/53

All: 0.251 ± 0.145 χ^2/NDF : 2526.7/100

diff_bpm0l10Y_rms vs Slug, Sign Corrected



Right In: 979.490 $\pm$ 0.206 χ^2/NDF : 308275.4/23

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

Right Out: 996.008 $\pm$ 0.193 χ^2/NDF : 321882.9/28

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

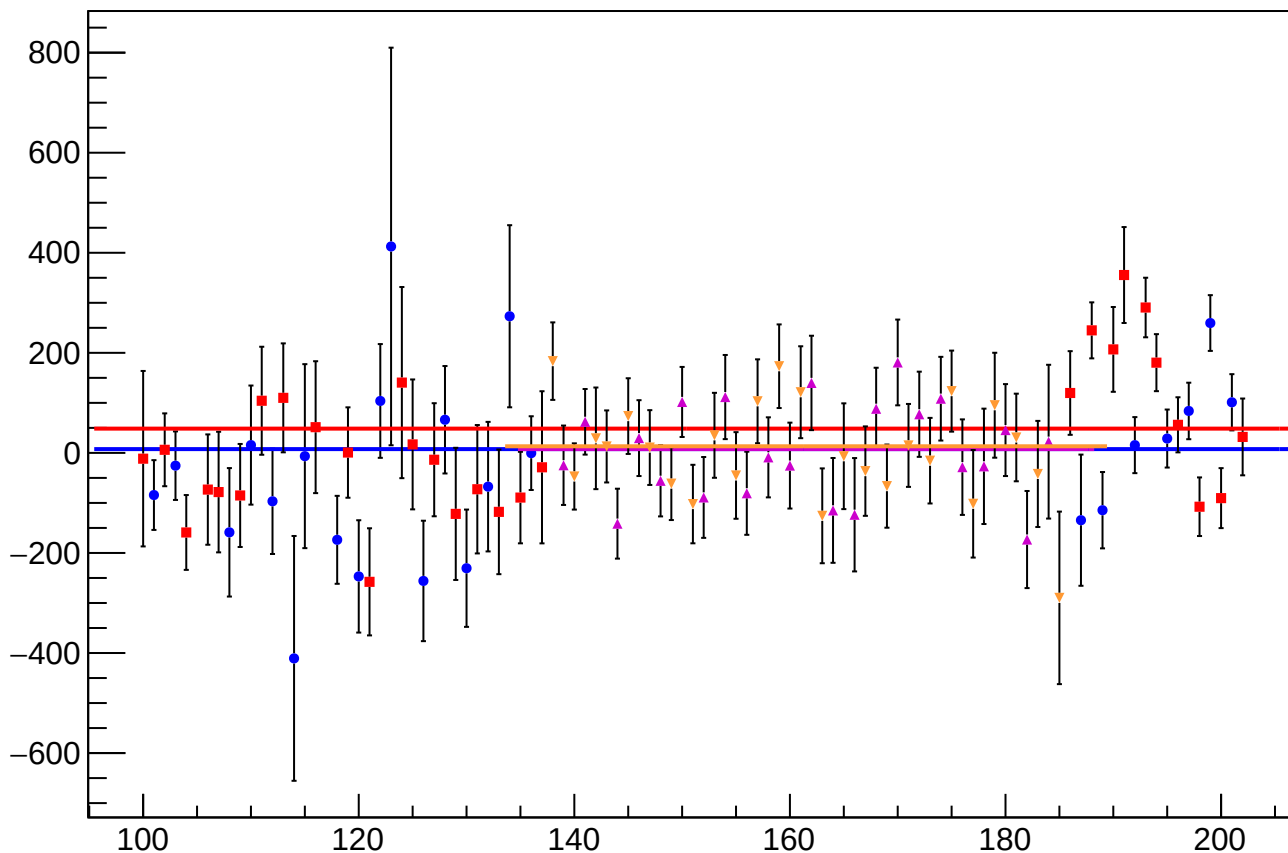
Right: 988.304 $\pm$ 0.141 χ^2/NDF : 633586.5/52

In: 1107.203 $\pm$ 0.149 χ^2/NDF :2187763.2/46

Out: 1100.383 $\pm$ 0.140 χ^2/NDF :2213374.9/53

All: 1103.588 $\pm$ 0.102 χ^2/NDF : 4402247.1/10

diff_bpm0r03X_mean vs Slug, Sign Corrected



Right In: 7.577 +/- 17.461 χ^2/NDF : 59.3/23

Left Out: 13.207 +/- 17.146 χ^2/NDF : 26.8/24

Right Out: 48.521 +/- 15.886 χ^2/NDF : 89.9/28

Left In: 7.618 +/- 17.672 χ^2/NDF : 28.1/22

Left: 10.497 +/- 12.306 χ^2/NDF : 55.0/47

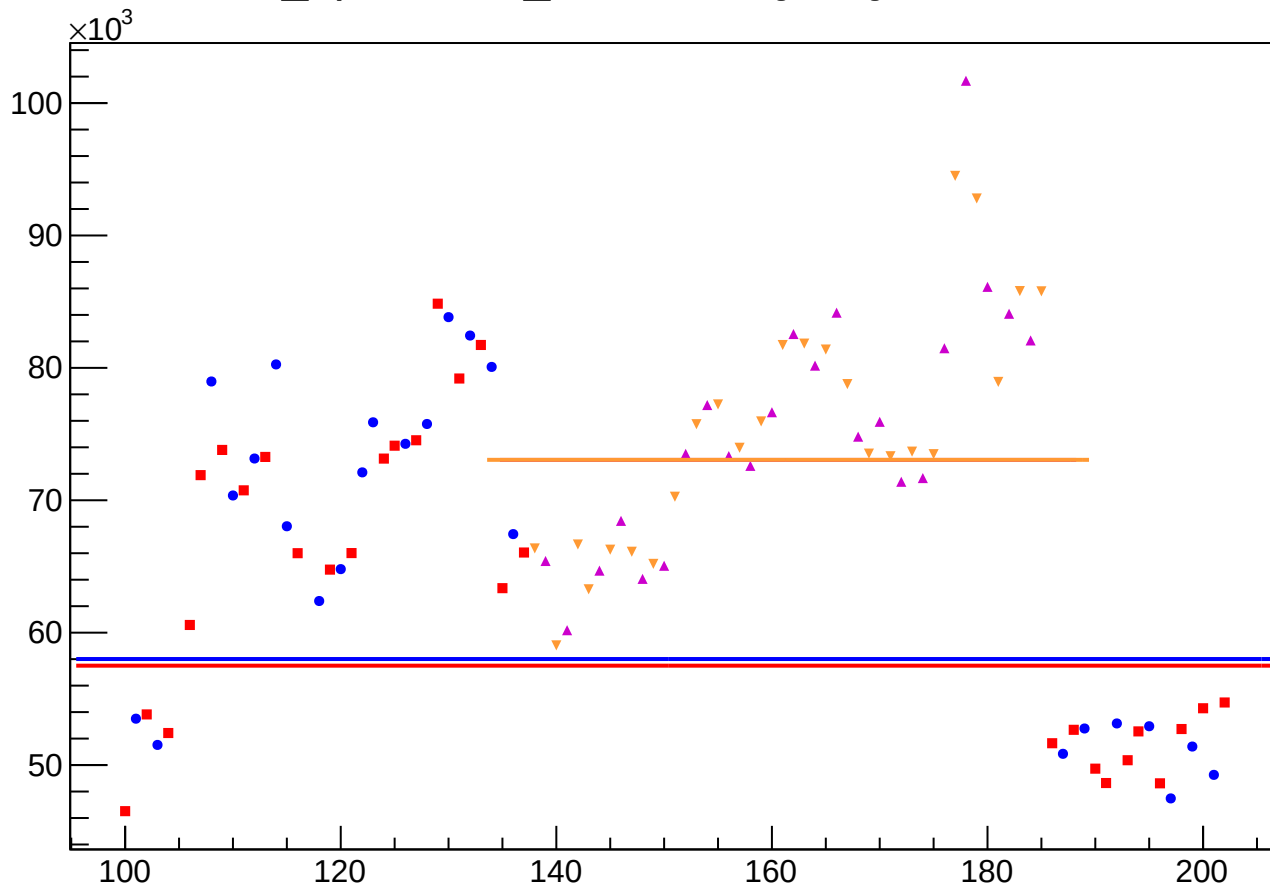
Right: 29.979 +/- 11.751 χ^2/NDF : 152.2/52

In: 7.597 +/- 12.421 χ^2/NDF : 87.4/46

Out: 32.209 +/- 11.653 χ^2/NDF : 119.0/53

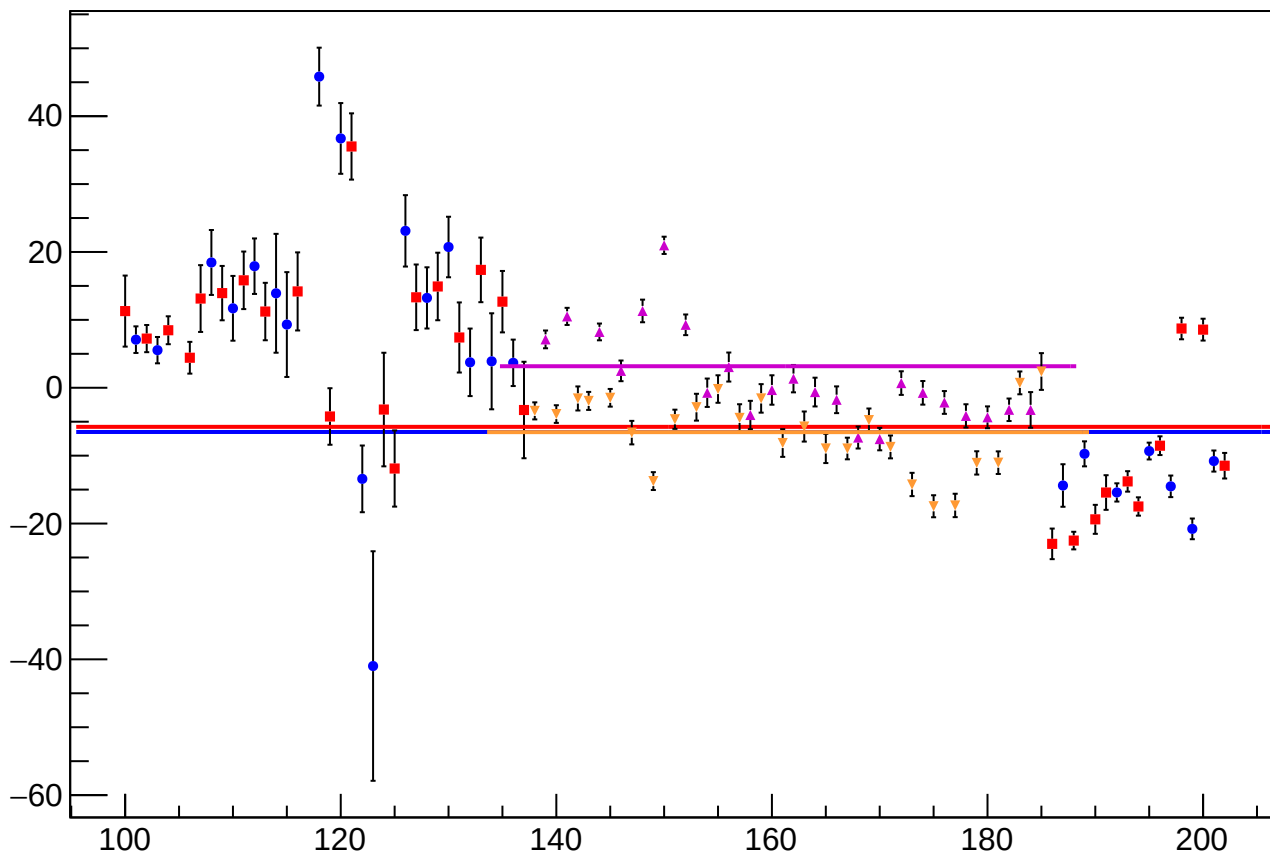
All: 20.687 +/- 8.498 χ^2/NDF : 208.5/100

diff_bpm0r03X_rms vs Slug, Sign Corrected



Right In: 58008.912 $\pm$ 12.347	χ^2/NDF : 725652.1/23	Left: 73050.085 $\pm$ 8.701	χ^2/NDF : 936576.6/47
Left Out: 73054.401 $\pm$ 12.124	χ^2/NDF : 473050.9/24	Right: 57734.483 $\pm$ 8.309	χ^2/NDF : 1435841.9/52
Right Out: 57507.331 $\pm$ 11.233	χ^2/NDF : 709286.9/28	In: 65437.143 $\pm$ 8.783	χ^2/NDF : 1921864.7/46
Left In: 73045.500 $\pm$ 12.496	χ^2/NDF : 463525.5/22	Out: 64688.666 $\pm$ 8.240	χ^2/NDF : 2067146.3/53
		All: 65039.069 $\pm$ 6.009	χ^2/NDF : 3992873.7/1

diff_bpm0r03Y_mean vs Slug, Sign Corrected



Right In: -6.513 ± 0.502 χ^2/NDF : 682.1/23

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

Right Out: -5.756 ± 0.444 χ^2/NDF : 926.0/28

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

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

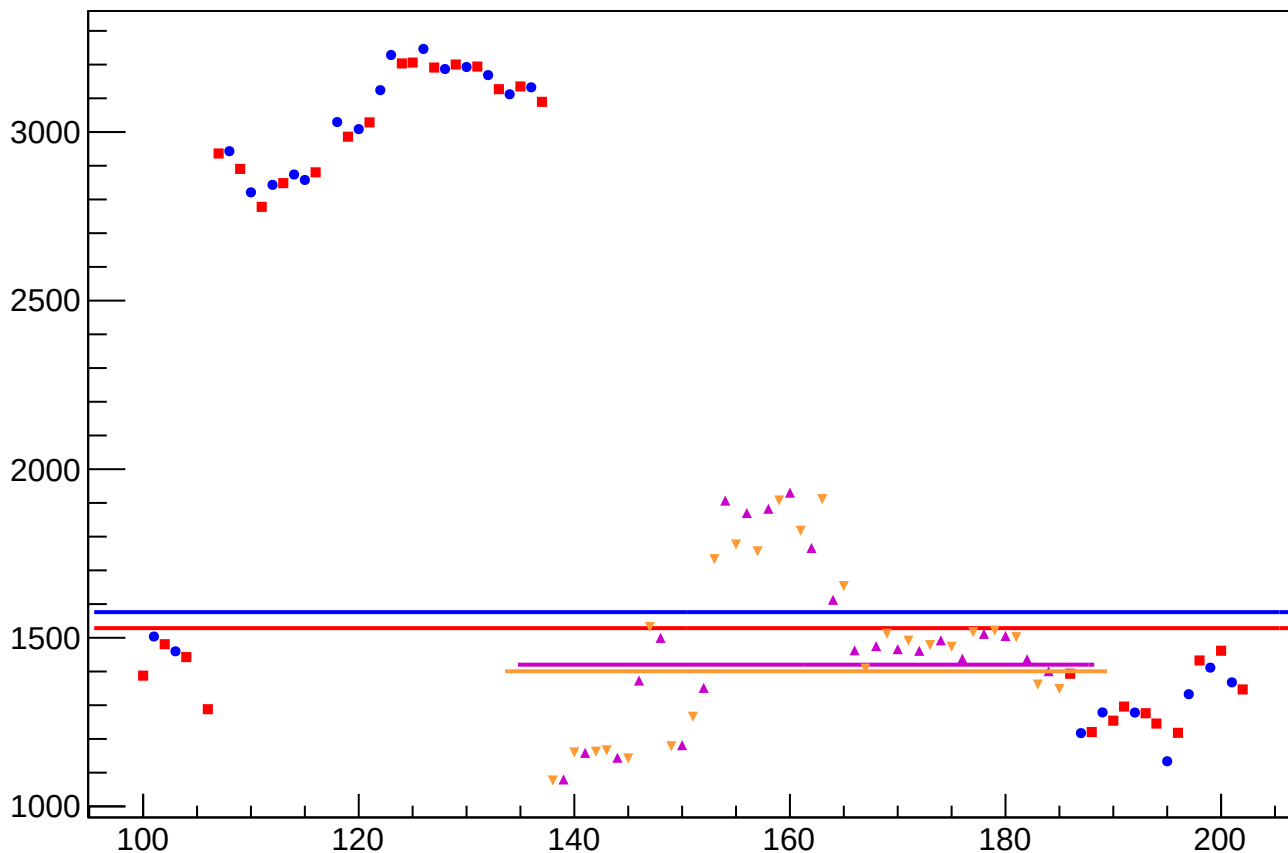
Right: -6.088 ± 0.333 χ^2/NDF : 1609.3/52

In: 0.049 ± 0.285 χ^2/NDF : 1421.3/46

Out: -6.257 ± 0.266 χ^2/NDF : 1180.7/53

All: -3.326 ± 0.194 χ^2/NDF : 2863.6/100

diff_bpm0r03Y_rms vs Slug, Sign Corrected



Right In: 1576.113 $\pm$ 0.355 χ^2 /NDF: 3174043.5/23

Left Out: 1400.637 $\pm$ 0.235 χ^2 /NDF:1037921.6/24

Right Out: 1528.622 $\pm$ 0.314 χ^2 /NDF: 3285296.0/28

Left In: 1420.285 $\pm$ 0.245 χ^2 /NDF:905186.2/22

Left: 1410.037 $\pm$ 0.169 χ^2 /NDF: 1946462.8/47

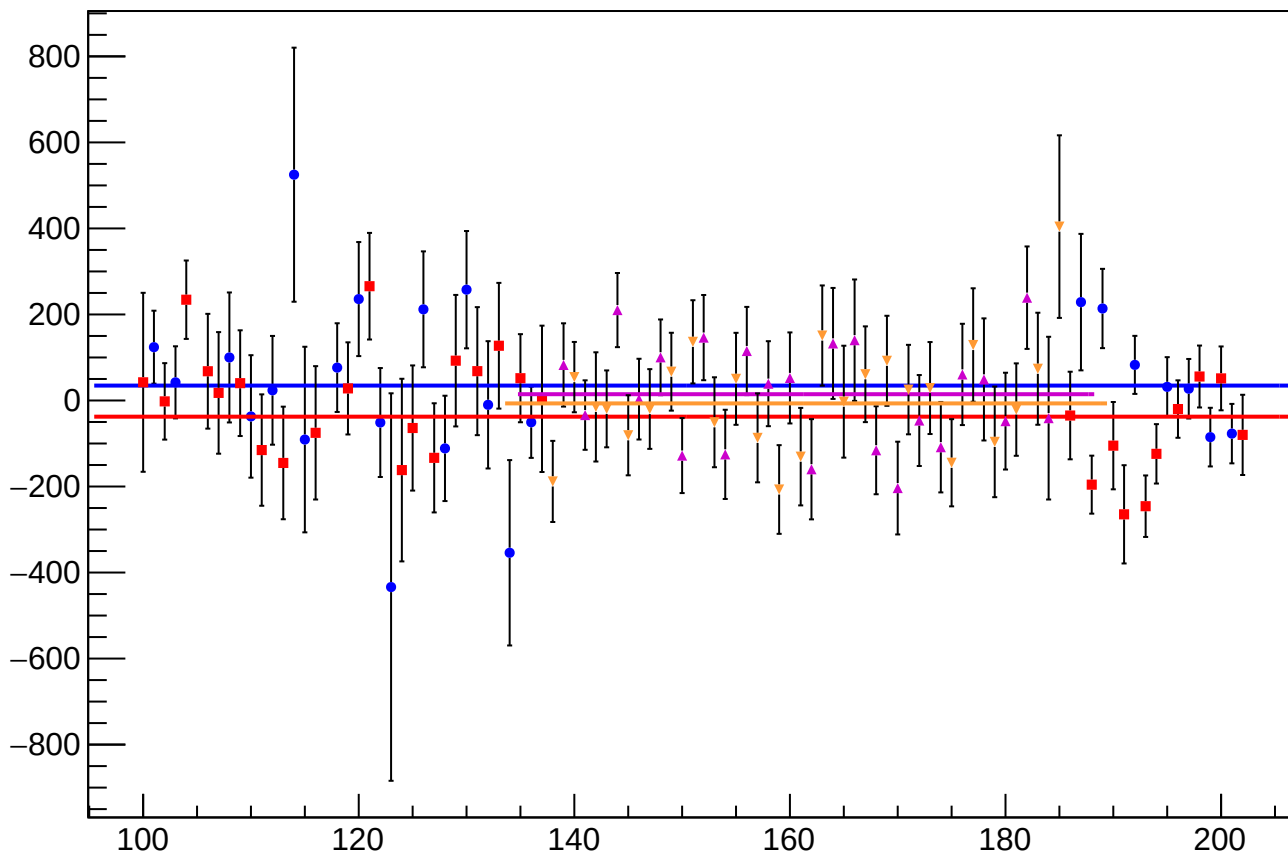
Right: 1549.443 $\pm$ 0.235 χ^2 /NDF: 6469381.7/52

In: 1470.526 $\pm$ 0.202 χ^2 /NDF:4209678.9/46

Out: 1446.532 $\pm$ 0.188 χ^2 /NDF:4429918.4/53

All: 1457.683 $\pm$ 0.137 χ^2 /NDF: 8647174.8/100

diff_bpm0r05X_mean vs Slug, Sign Corrected



Right In: 34.651 ± 20.866 $\chi^2/\text{NDF}: 30.4/23$

Left Out: -6.789 ± 21.213 $\chi^2/\text{NDF}: 24.7/24$

Right Out: -37.628 ± 19.035 $\chi^2/\text{NDF}: 45.4/28$

Left In: 14.611 ± 21.846 $\chi^2/\text{NDF}: 29.8/22$

Left: 3.596 ± 15.219 $\chi^2/\text{NDF}: 55.0/47$

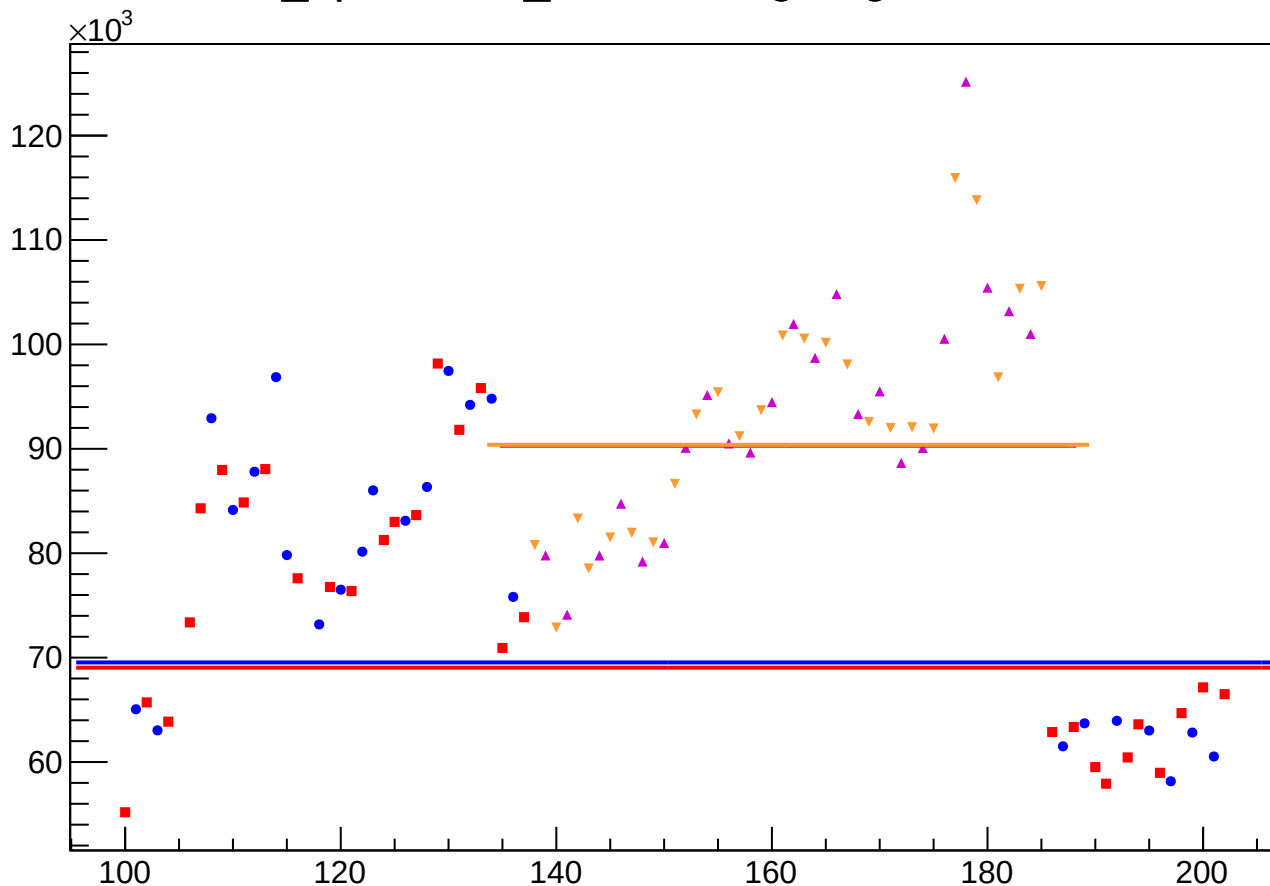
Right: -4.799 ± 14.063 $\chi^2/\text{NDF}: 82.4/52$

In: 25.090 ± 15.089 $\chi^2/\text{NDF}: 60.7/46$

Out: -23.873 ± 14.167 $\chi^2/\text{NDF}: 71.3/53$

All: -0.933 ± 10.328 $\chi^2/\text{NDF}: 137.6/100$

diff_bpm0r05X_rms vs Slug, Sign Corrected



Right In: 69539.439 ± 14.755

$\chi^2/\text{NDF}: 563415.2/23$

Left Out: 90384.853 ± 15.000

$\chi^2/\text{NDF}: 461648.2/24$

Right Out: 69038.106 ± 13.459

$\chi^2/\text{NDF}: 582144.5/28$

Left In: 90293.591 ± 15.448

$\chi^2/\text{NDF}: 461337.5/22$

Left: 90340.563 ± 10.761

$\chi^2/\text{NDF}: 923003.7/47$

Right: 69265.807 ± 9.944

$\chi^2/\text{NDF}: 1146189.8/52$

In: 79440.648 ± 10.670

$\chi^2/\text{NDF}: 1968669.5/46$

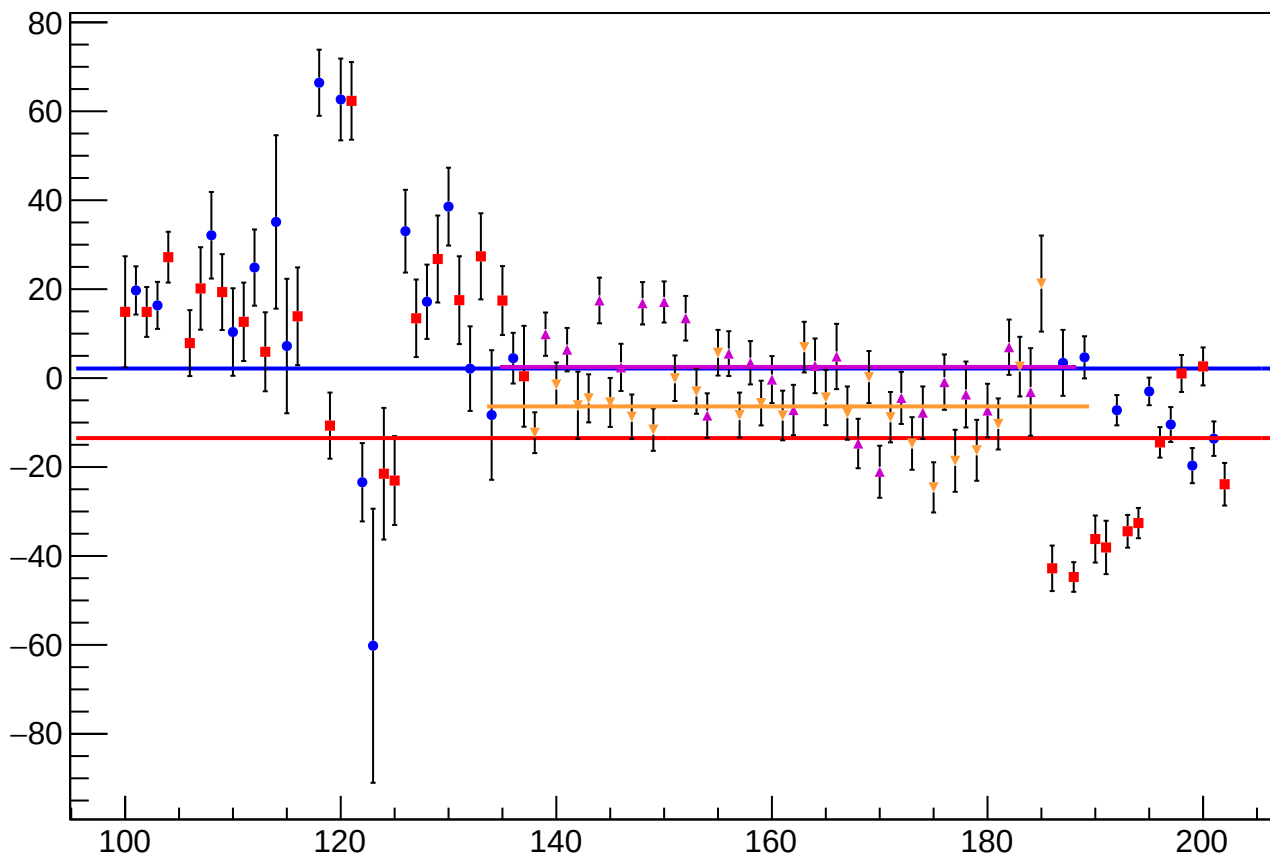
Out: 78559.395 ± 10.018

$\chi^2/\text{NDF}: 2165734.1/53$

All: 78972.280 ± 7.303

$\chi^2/\text{NDF}: 4138029.2/100$

diff_bpm0r05Y_mean vs Slug, Sign Corrected



Right In: 2.157 ± 1.205 χ^2/NDF : 268.6/23

Left Out: -6.370 ± 1.124 χ^2/NDF : 45.5/24

Right Out: -13.492 ± 1.082 χ^2/NDF : 537.1/28

Left In: 2.501 ± 1.156 χ^2/NDF : 78.4/22

Left: -2.059 ± 0.806 χ^2/NDF : 154.1/47

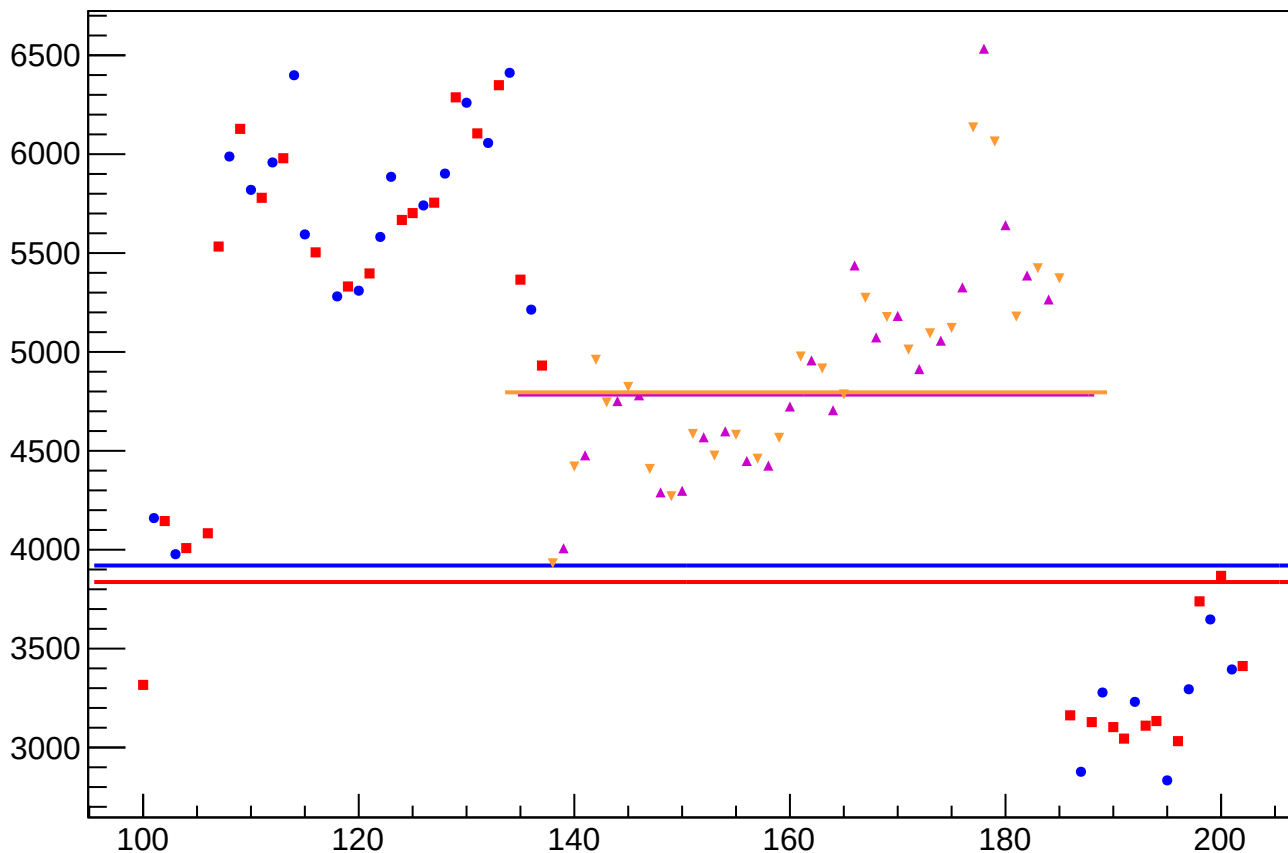
Right: -6.505 ± 0.805 χ^2/NDF : 899.1/52

In: 2.336 ± 0.834 χ^2/NDF : 347.1/46

Out: -10.066 ± 0.779 χ^2/NDF : 603.4/53

All: -4.284 ± 0.569 χ^2/NDF : 1068.5/100

diff_bpm0r05Y_rms vs Slug, Sign Corrected



Right In: 3920.127 ± 0.852 $\chi^2/\text{NDF}: 1625758.5/23$

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

Right Out: 3836.652 ± 0.765 $\chi^2/\text{NDF}: 1776625.9/28$

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

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

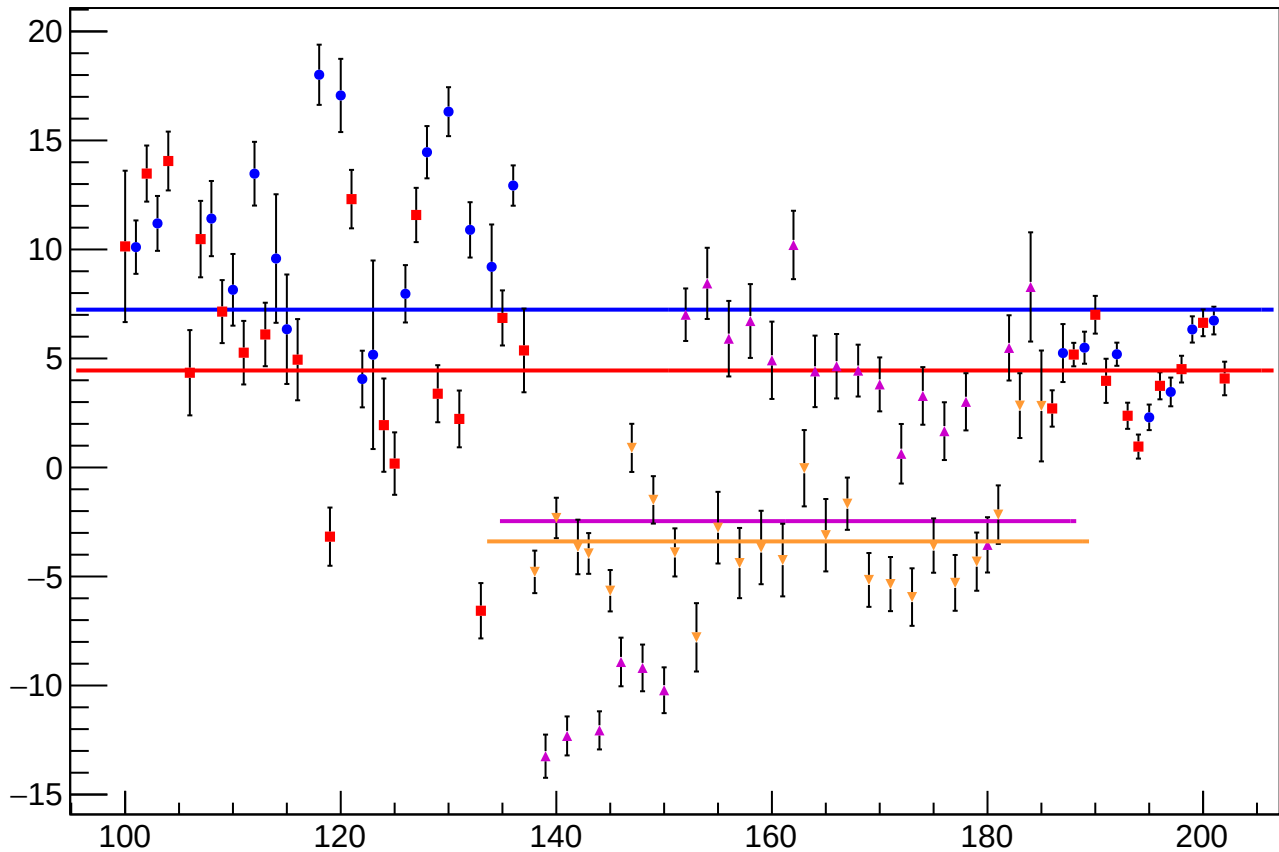
Right: 3873.924 ± 0.569 $\chi^2/\text{NDF}: 3407699.3/52$

In: 4370.139 ± 0.590 $\chi^2/\text{NDF}: 2519251.9/46$

Out: 4298.061 ± 0.551 $\chi^2/\text{NDF}: 2893922.3/53$

All: 4331.664 ± 0.403 $\chi^2/\text{NDF}: 5421146.9/10$

diff_bpm2i01X_mean vs Slug, Sign Corrected



Right In: 7.239 ± 0.201 $\chi^2/\text{NDF}: 420.6/23$

Left Out: -3.390 ± 0.252 $\chi^2/\text{NDF}: 77.7/24$

Right Out: 4.449 ± 0.178 $\chi^2/\text{NDF}: 394.0/28$

Left In: -2.461 ± 0.264 $\chi^2/\text{NDF}: 928.0/22$

Left: -2.947 ± 0.183 $\chi^2/\text{NDF}: 1012.2/47$

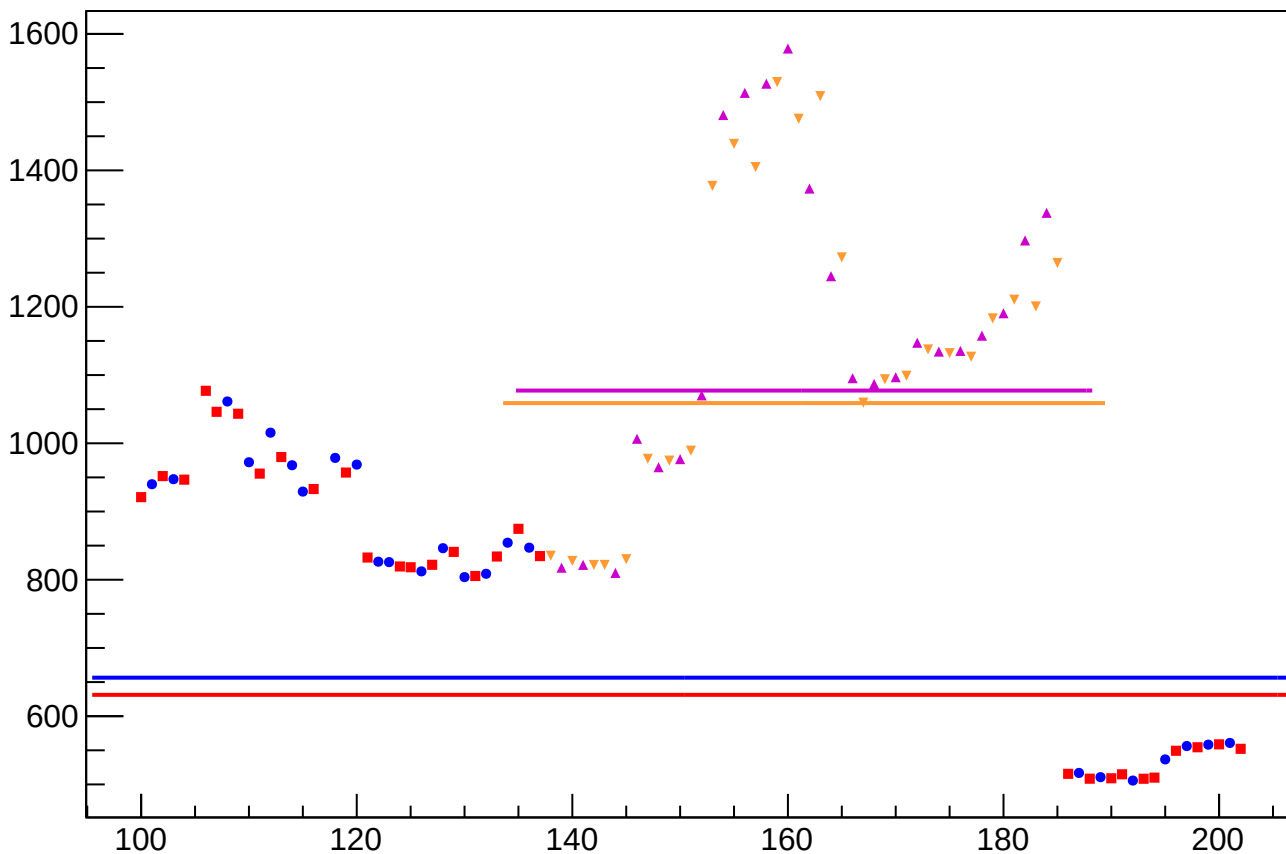
Right: 5.677 ± 0.133 $\chi^2/\text{NDF}: 922.8/52$

In: 3.691 ± 0.160 $\chi^2/\text{NDF}: 2202.4/46$

Out: 1.844 ± 0.145 $\chi^2/\text{NDF}: 1116.5/53$

All: 2.680 ± 0.108 $\chi^2/\text{NDF}: 3392.0/100$

diff_bpm2i01X_rms vs Slug, Sign Corrected



Right In: 656.469 ± 0.142 χ^2/NDF : 1517489.1/23

Left Out: 1058.941 ± 0.178 χ^2/NDF : 1403222.2/24

Right Out: 631.297 ± 0.126 χ^2/NDF : 1893050.8/28

Left In: 1077.284 ± 0.187 χ^2/NDF : 1280349.9/22

Left: 1067.683 ± 0.129 χ^2/NDF : 2688612.0/47

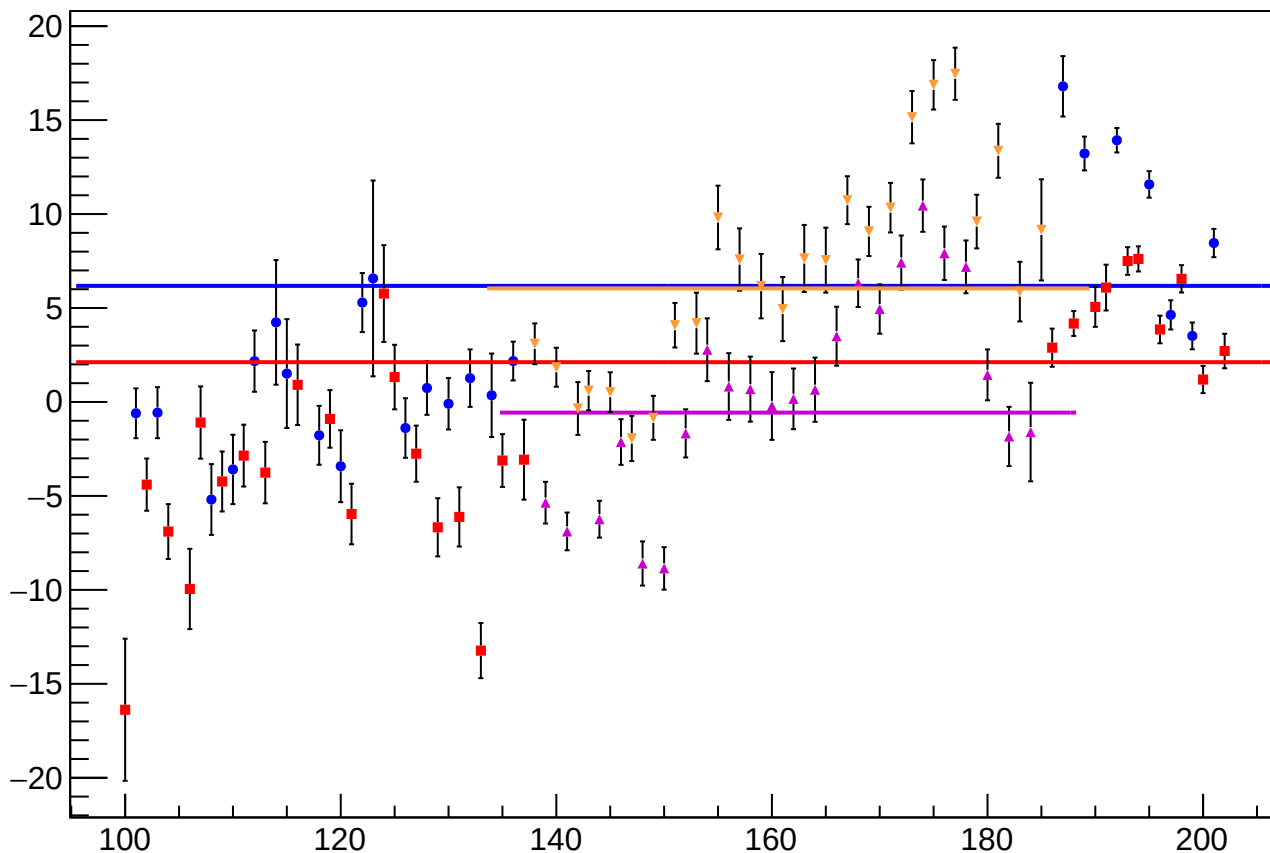
Right: 642.373 ± 0.094 χ^2/NDF : 3428144.5/52

In: 810.399 ± 0.113 χ^2/NDF : 6011774.5/46

Out: 773.418 ± 0.103 χ^2/NDF : 7134031.7/53

All: 790.160 ± 0.076 χ^2/NDF : 13204361.8/10

diff_bpm2i01Y_mean vs Slug, Sign Corrected



Right In: 6.179 ± 0.237 χ^2/NDF : 598.2/23

Left Out: 6.045 ± 0.272 χ^2/NDF : 430.8/24

Right Out: 2.117 ± 0.211 χ^2/NDF : 581.7/28

Left In: -0.566 ± 0.284 χ^2/NDF : 417.0/22

Left: 2.888 ± 0.196 χ^2/NDF : 1130.7/47

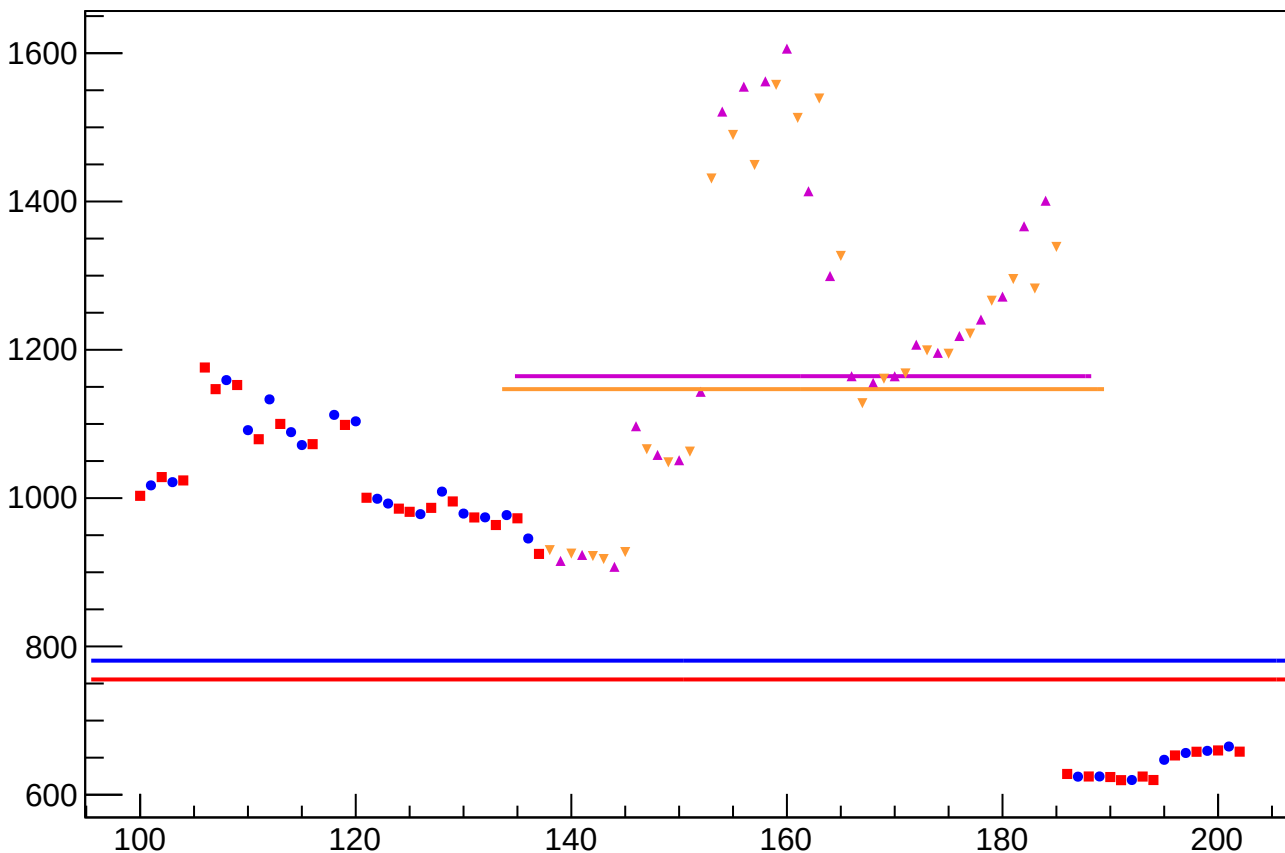
Right: 3.915 ± 0.158 χ^2/NDF : 1343.2/52

In: 3.407 ± 0.182 χ^2/NDF : 1347.1/46

Out: 3.599 ± 0.167 χ^2/NDF : 1142.7/53

All: 3.512 ± 0.123 χ^2/NDF : 2490.4/100

diff_bpm2i01Y_rms vs Slug, Sign Corrected



Right In: 780.825+/-0.168 χ^2 /NDF: 1235411.5/23

Left Out: 1146.960+/-0.192 χ^2 /NDF:1045761.4/24

Right Out: 755.463+/-0.150 χ^2 /NDF: 1522680.6/28

Left In: 1164.432+/-0.201 χ^2 /NDF:944112.0/22

Left: 1155.305+/-0.139 χ^2 /NDF: 1993824.0/47

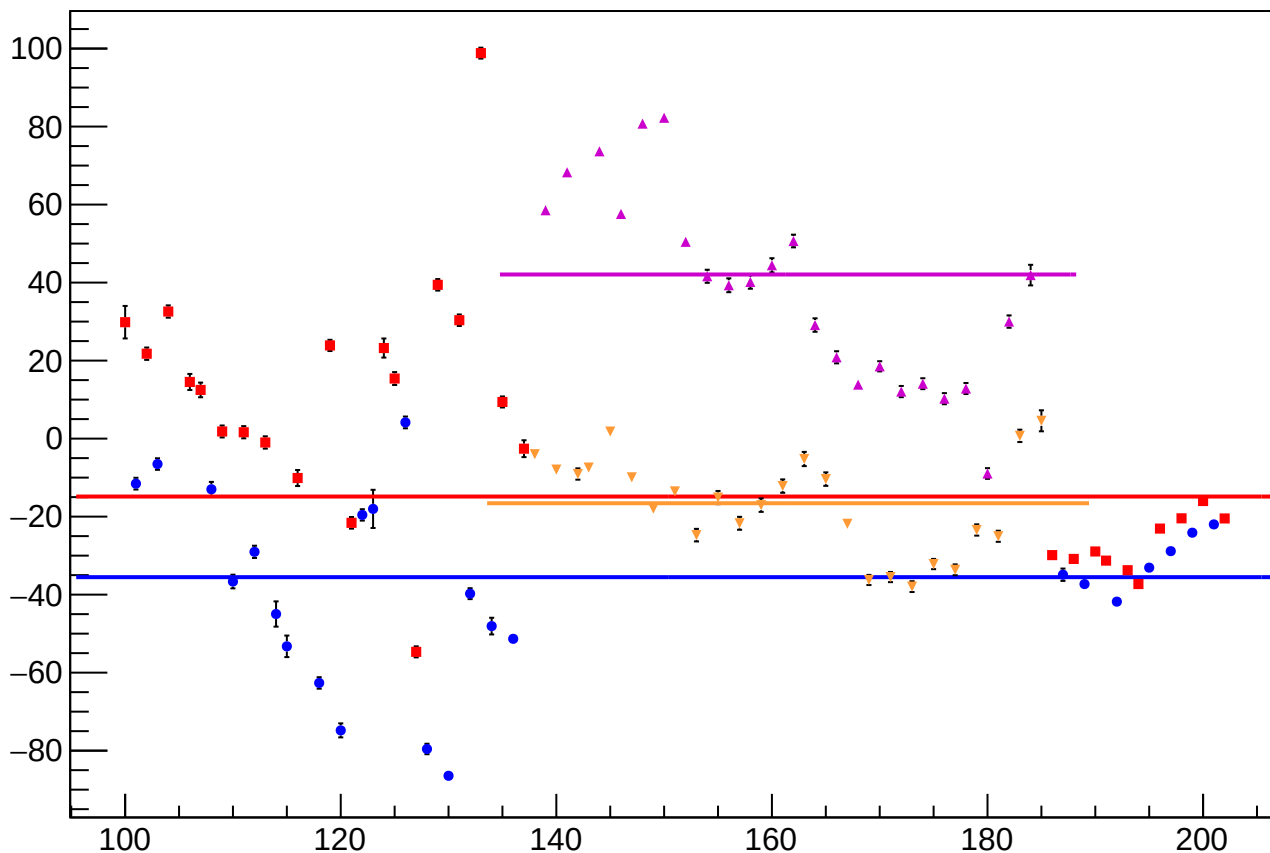
Right: 766.689+/-0.112 χ^2 /NDF: 2770828.7/52

In: 938.440+/-0.129 χ^2 /NDF:4327347.7/46

Out: 903.157+/-0.118 χ^2 /NDF:5154916.6/53

All: 919.259+/-0.087 χ^2 /NDF: 9523072.2/100

diff_bpm2i02X_mean vs Slug, Sign Corrected



Right In: -35.519 ± 0.234 χ^2/NDF : 6159.1/23

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

Right Out: -14.851 ± 0.208 χ^2/NDF : 16918.4/28

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

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

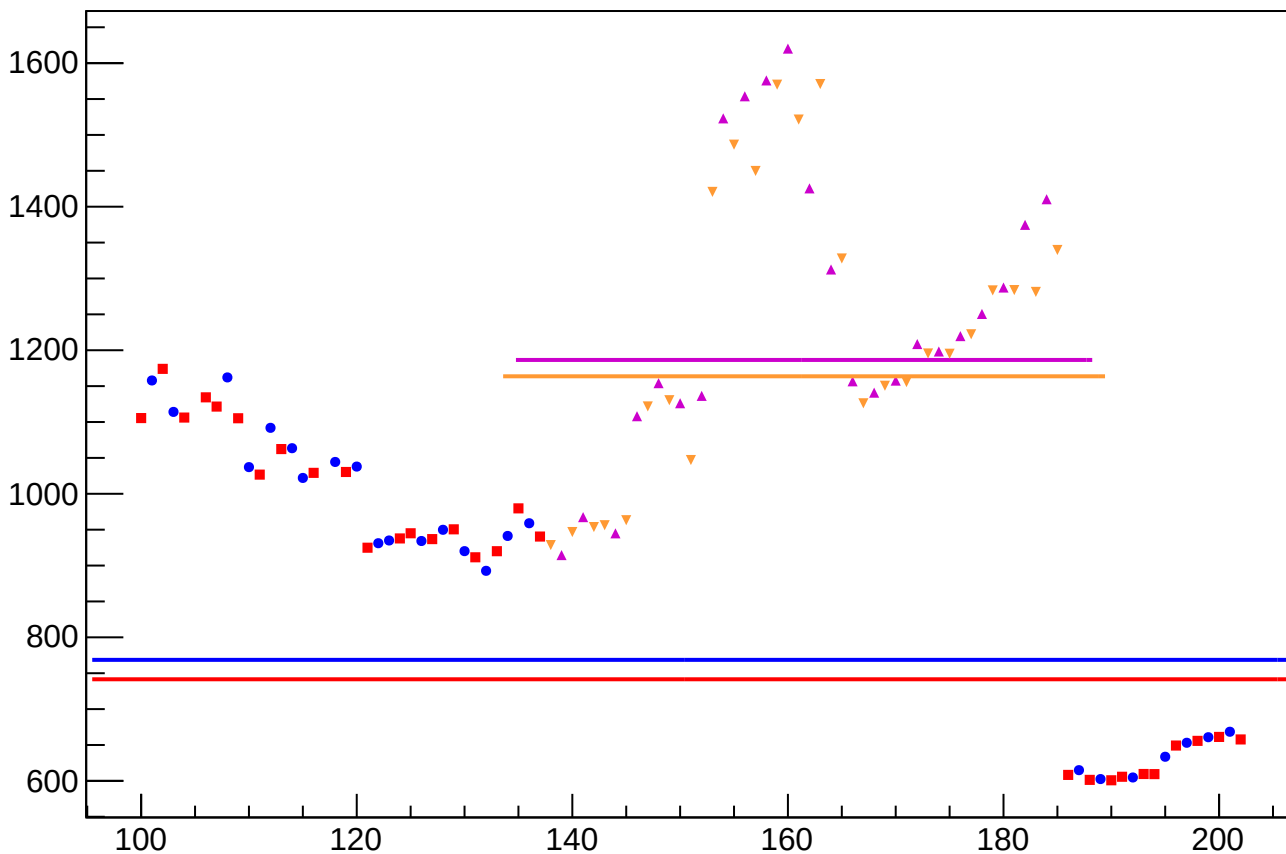
Right: -23.971 ± 0.155 χ^2/NDF : 27452.0/52

In: -4.871 ± 0.182 χ^2/NDF : 58080.2/46

Out: -15.473 ± 0.166 χ^2/NDF : 18874.5/53

All: -10.658 ± 0.122 χ^2/NDF : 78813.3/100

diff_bpm2i02X_rms vs Slug, Sign Corrected



Right In: 768.610 $\pm$ 0.165 χ^2 /NDF: 1245587.4/23

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

Right Out: 741.552 $\pm$ 0.147 χ^2 /NDF: 1537305.4/28

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

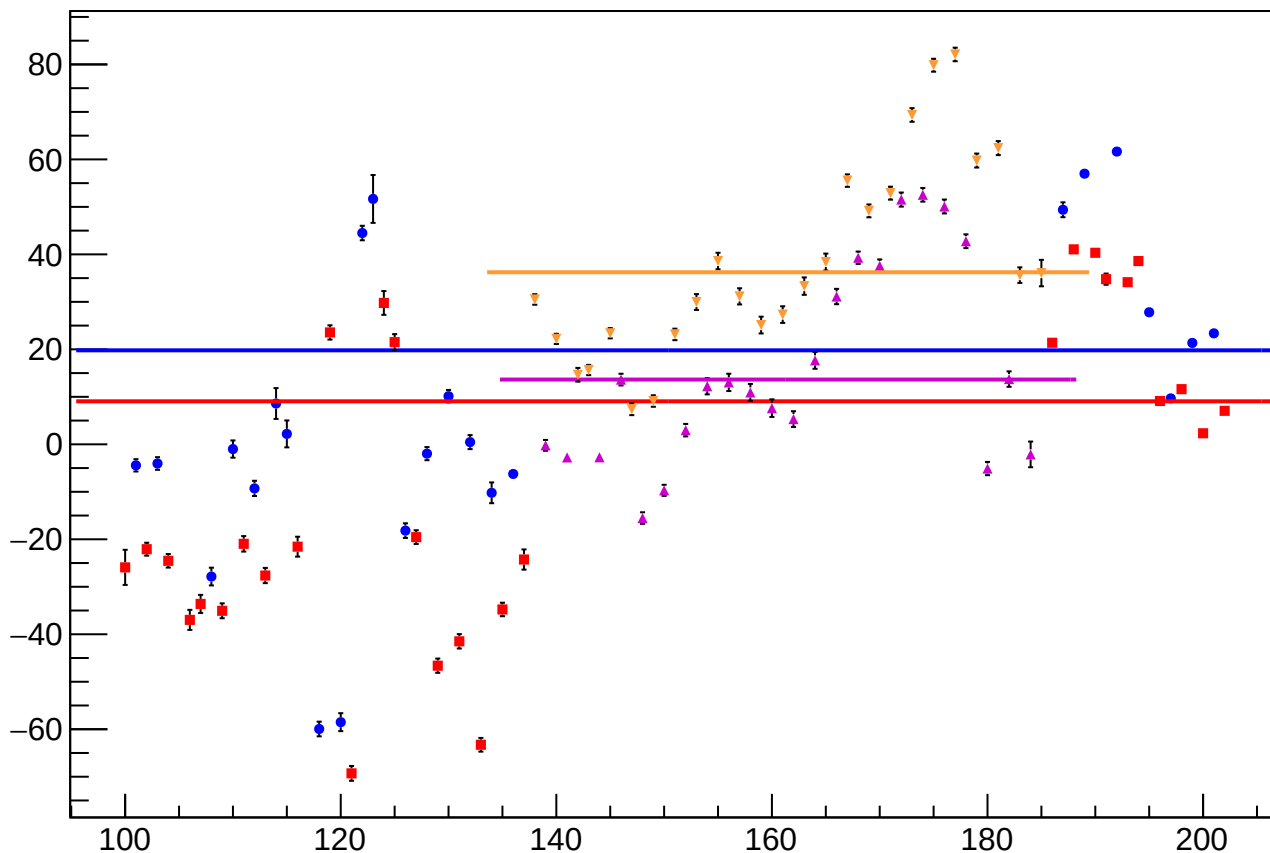
Right: 753.492 $\pm$ 0.110 χ^2 /NDF: 2797888.8/52

In: 933.655 $\pm$ 0.128 χ^2 /NDF: 4607183.3/46

Out: 894.586 $\pm$ 0.117 χ^2 /NDF: 5471992.9/53

All: 912.331 $\pm$ 0.087 χ^2 /NDF: 10129653.9/100

diff_bpm2i02Y_mean vs Slug, Sign Corrected



Right In: 19.794 $\pm$ 0.231 χ^2 /NDF: 15387.0/23

Left Out: 36.234 $\pm$ 0.280 χ^2 /NDF:5794.2/24

Right Out: 9.055 $\pm$ 0.206 χ^2 /NDF: 20863.1/28

Left In: 13.640 $\pm$ 0.293 χ^2 /NDF:5178.0/22

Left: 25.447 $\pm$ 0.202 χ^2 /NDF: 14084.0/47

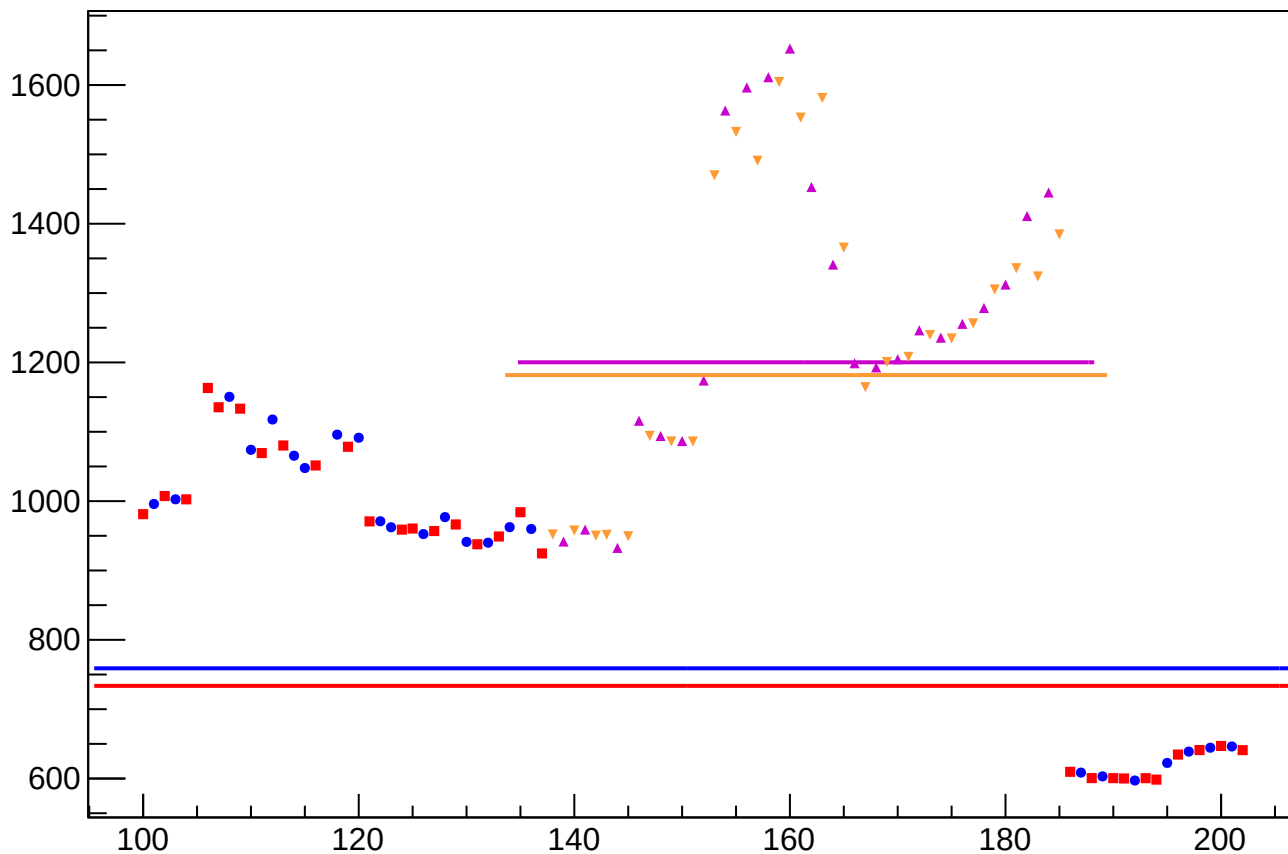
Right: 13.803 $\pm$ 0.154 χ^2 /NDF: 37456.2/52

In: 17.434 $\pm$ 0.181 χ^2 /NDF:20837.3/46

Out: 18.583 $\pm$ 0.166 χ^2 /NDF:32782.2/53

All: 18.060 $\pm$ 0.122 χ^2 /NDF: 53641.4/100

diff_bpm2i02Y_rms vs Slug, Sign Corrected



Right In: 758.944 $\pm$ 0.163 χ^2 /NDF: 1307705.6/23

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

Right Out: 733.634 $\pm$ 0.145 χ^2 /NDF: 1604540.7/28

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

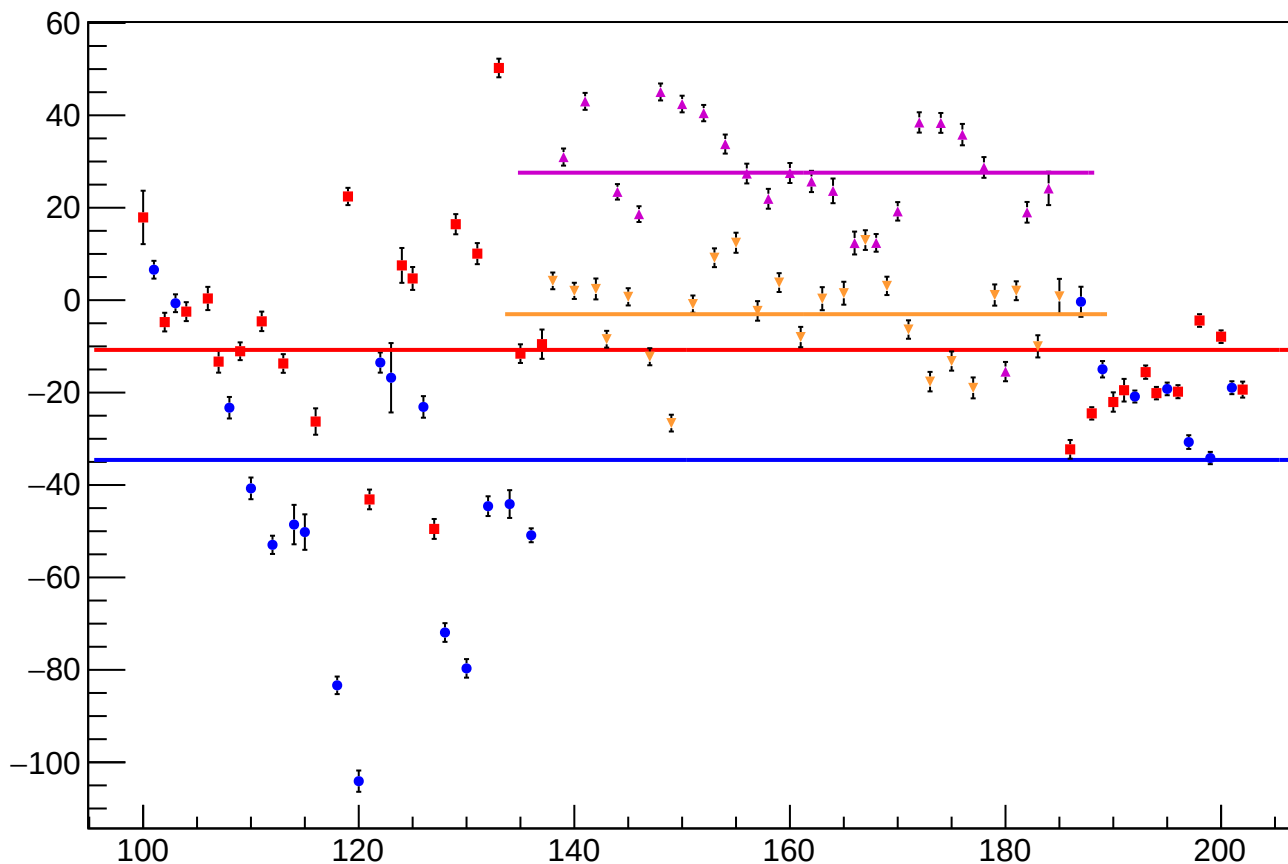
Right: 744.825 $\pm$ 0.109 χ^2 /NDF: 2925644.3/52

In: 928.199 $\pm$ 0.128 χ^2 /NDF:5045970.2/46

Out: 890.717 $\pm$ 0.117 χ^2 /NDF:5977673.2/53

All: 907.773 $\pm$ 0.086 χ^2 /NDF: 11070207.3/10

diff_bpm0i02X_mean vs Slug, Sign Corrected



Right In: -34.574 ± 0.392 χ^2/NDF : 4201.5/23

Left Out: -3.037 ± 0.415 χ^2/NDF : 555.6/24

Right Out: -10.764 ± 0.358 χ^2/NDF : 2609.7/28

Left In: 27.583 ± 0.429 χ^2/NDF : 960.1/22

Left: 11.767 ± 0.298 χ^2/NDF : 4146.6/47

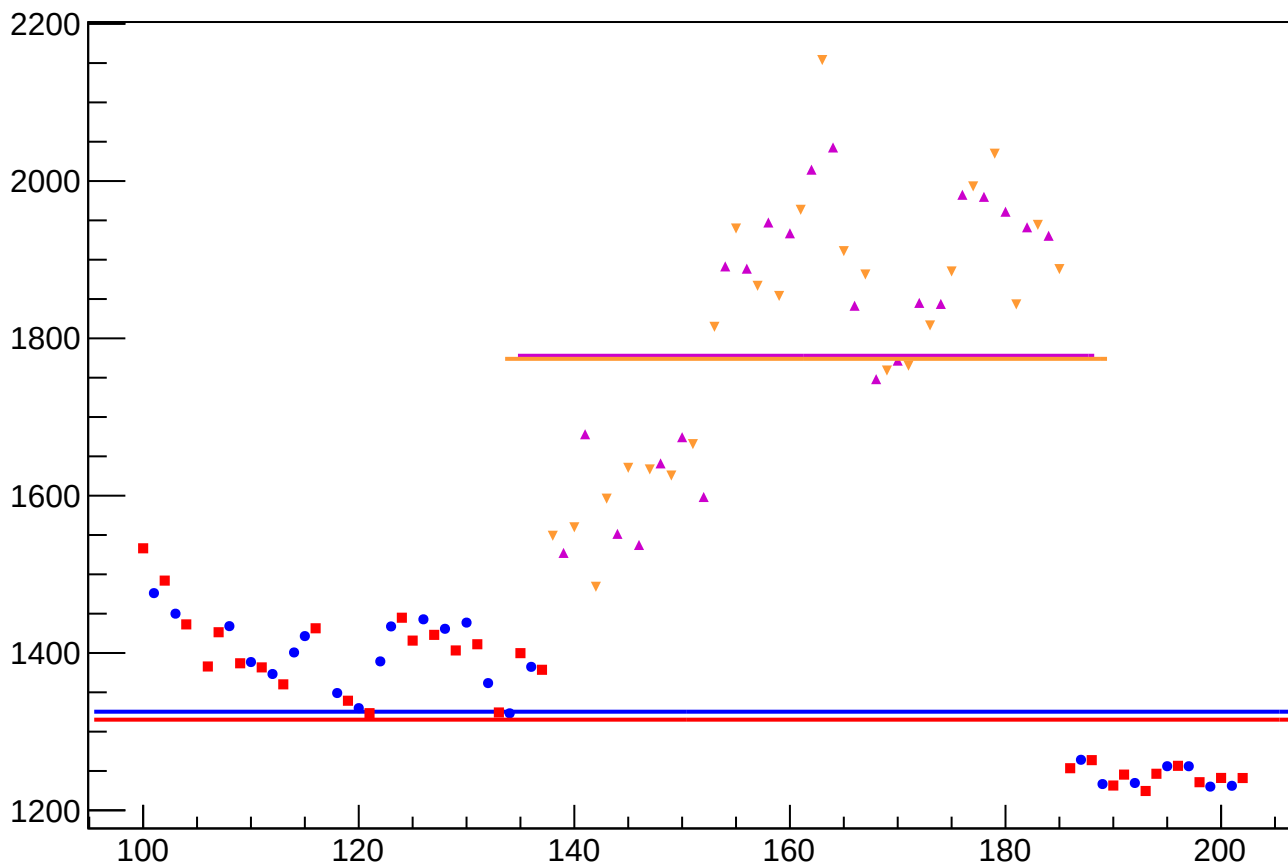
Right: -21.586 ± 0.265 χ^2/NDF : 8819.6/52

In: -6.262 ± 0.290 χ^2/NDF : 16590.7/46

Out: -7.466 ± 0.271 χ^2/NDF : 3364.0/53

All: -6.903 ± 0.198 χ^2/NDF : 19963.8/100

diff_bpm0i02X_rms vs Slug, Sign Corrected



Right In: 1325.361 $\pm$ 0.277 χ^2/NDF : 96965.9/23

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

Right Out: 1315.229 $\pm$ 0.253 χ^2/NDF : 104745.5/28

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

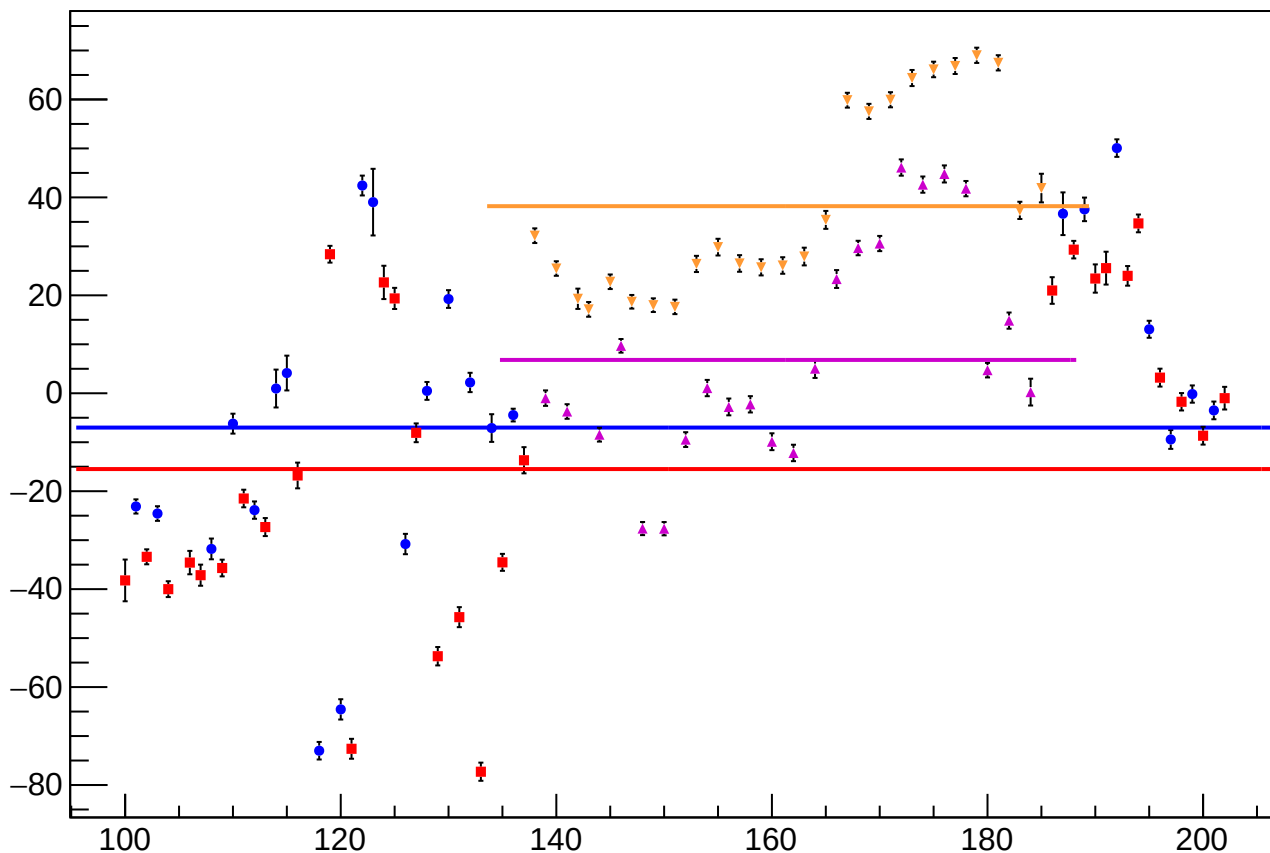
Right: 1319.834 $\pm$ 0.187 χ^2/NDF : 202438.7/52

In: 1531.487 $\pm$ 0.205 χ^2/NDF : 1608030.0/46

Out: 1511.024 $\pm$ 0.192 χ^2/NDF : 1817942.6/53

All: 1520.585 $\pm$ 0.140 χ^2/NDF : 3431294.1/100

diff_bpm0i02Y_mean vs Slug, Sign Corrected



Right In: -7.007 $\pm$ 0.400 χ^2/NDF : 5266.1/23

Left Out: 38.206 $\pm$ 0.323 χ^2/NDF :3514.2/24

Right Out: -15.479 $\pm$ 0.375 χ^2/NDF : 6969.9/28

Left In: 6.808 $\pm$ 0.333 χ^2/NDF :4494.5/22

Left: 22.967 $\pm$ 0.232 χ^2/NDF : 12584.4/47

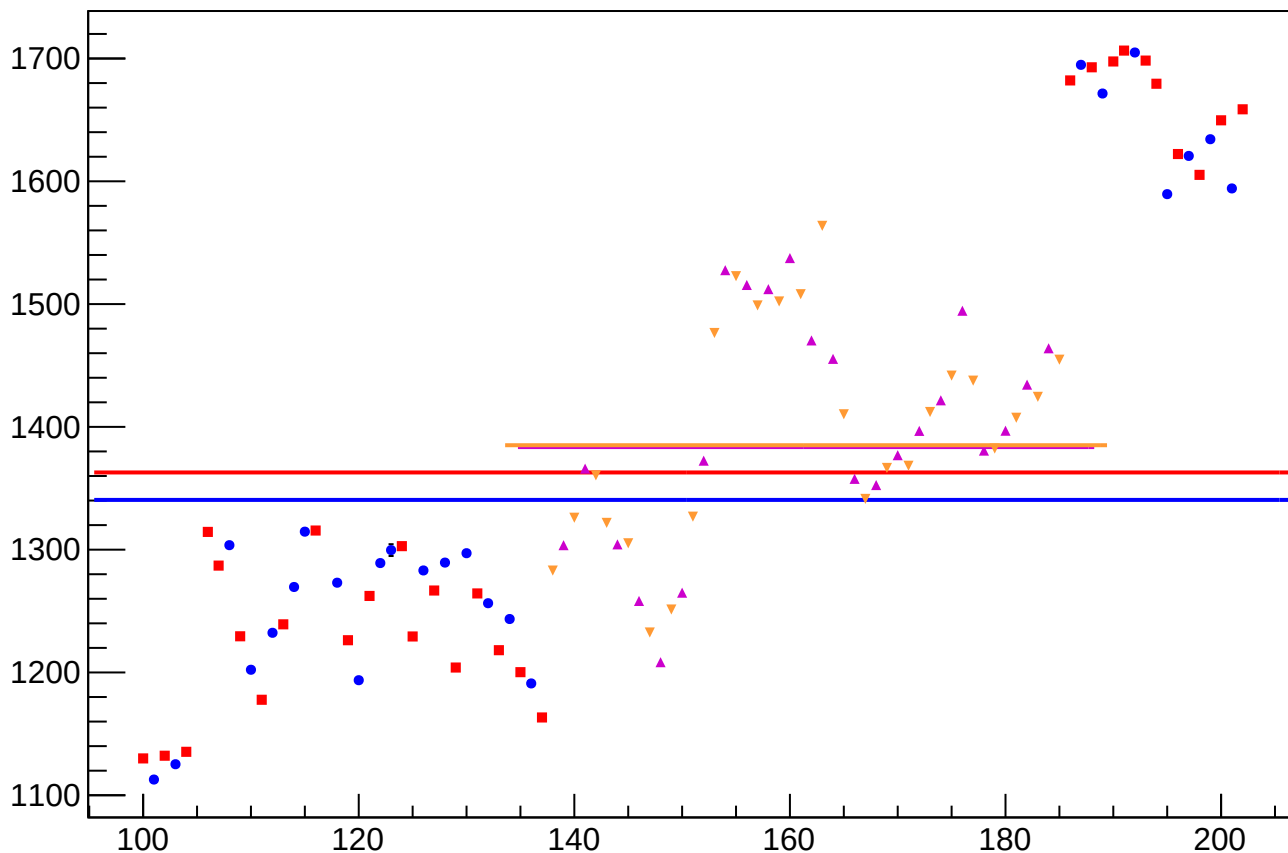
Right: -11.518 $\pm$ 0.274 χ^2/NDF : 12474.4/52

In: 1.159 $\pm$ 0.256 χ^2/NDF :10464.4/46

Out: 15.320 $\pm$ 0.245 χ^2/NDF :22233.5/53

All: 8.553 $\pm$ 0.177 χ^2/NDF : 34295.4/100

diff_bpm0i02Y_rms vs Slug, Sign Corrected



Right In: 1340.522 $\pm$ 0.283 χ^2/NDF : 472204.8/23

Left Out: 1385.063 $\pm$ 0.229 χ^2/NDF : 146001.5/24

Right Out: 1362.880 $\pm$ 0.265 χ^2/NDF : 648629.0/28

Left In: 1383.558 $\pm$ 0.235 χ^2/NDF : 154696.0/22

Left: 1384.333 $\pm$ 0.164 χ^2/NDF : 300718.5/47

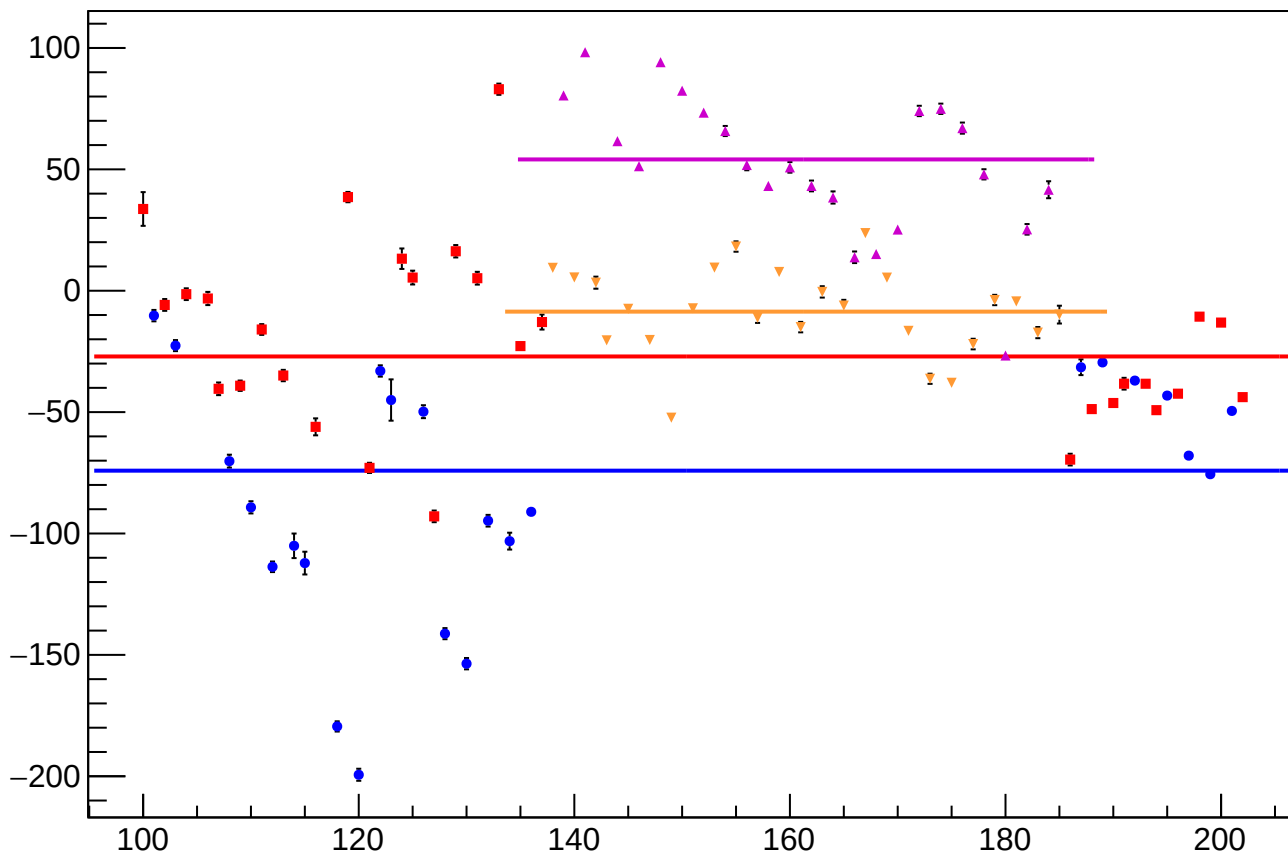
Right: 1352.427 $\pm$ 0.194 χ^2/NDF : 1124155.1/52

In: 1365.960 $\pm$ 0.181 χ^2/NDF : 640561.4/46

Out: 1375.606 $\pm$ 0.173 χ^2/NDF : 798642.9/53

All: 1370.996 $\pm$ 0.125 χ^2/NDF : 1440686.8/100

diff_bpm0i02aX_mean vs Slug, Sign Corrected



Right In: -74.116 ± 0.432 $\chi^2/\text{NDF}: 11737.9/23$

Left Out: -8.606 ± 0.410 $\chi^2/\text{NDF}: 1930.5/24$

Right Out: -27.076 ± 0.391 $\chi^2/\text{NDF}: 6978.2/28$

Left In: 54.089 ± 0.426 $\chi^2/\text{NDF}: 4721.6/22$

Left: 21.586 ± 0.295 $\chi^2/\text{NDF}: 17900.0/47$

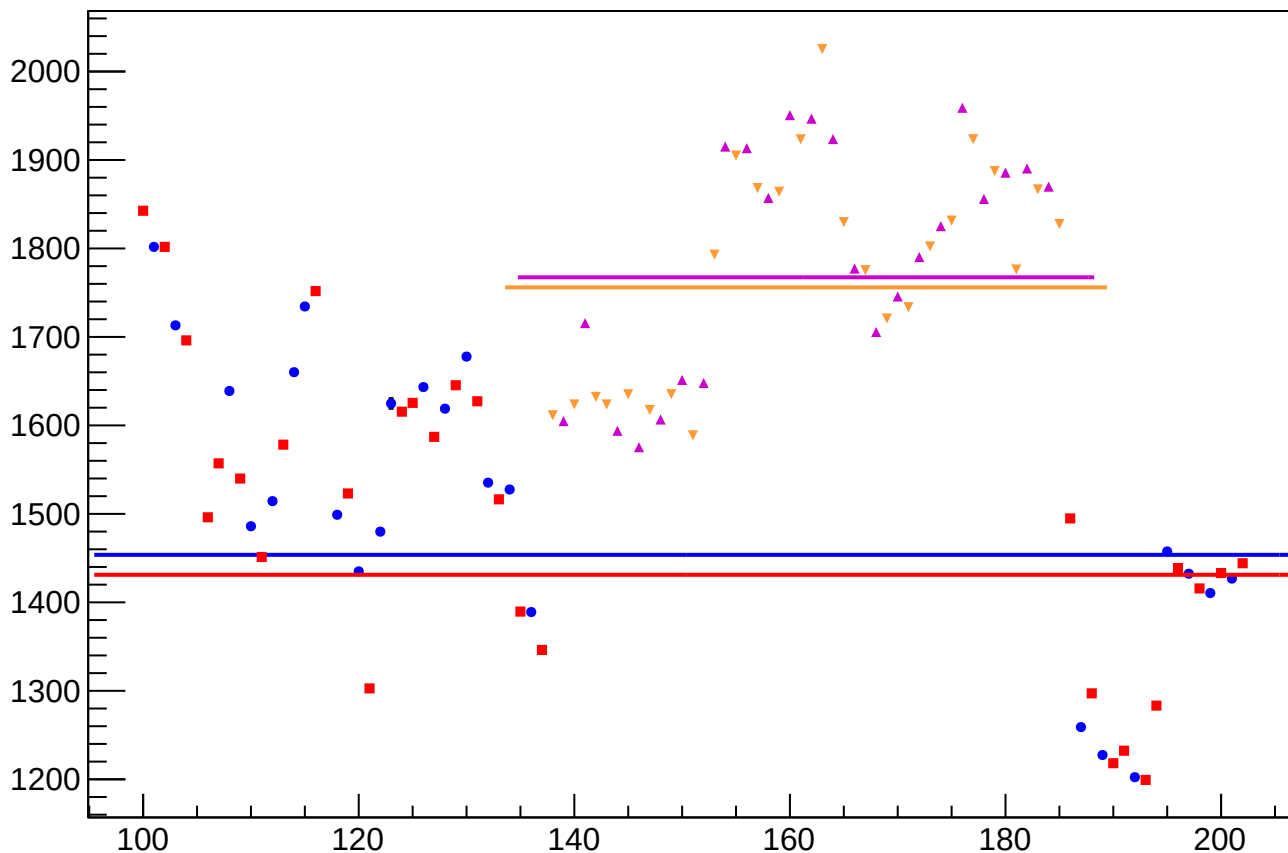
Right: -48.279 ± 0.290 $\chi^2/\text{NDF}: 25227.0/52$

In: -9.055 ± 0.303 $\chi^2/\text{NDF}: 61143.5/46$

Out: -18.274 ± 0.283 $\chi^2/\text{NDF}: 9969.9/53$

All: -13.979 ± 0.207 $\chi^2/\text{NDF}: 71607.2/100$

diff_bpm0i02aX_rms vs Slug, Sign Corrected



Right In: 1453.703 $\pm$ 0.306 χ^2 /NDF: 261484.4/23

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

Right Out: 1431.159 $\pm$ 0.277 χ^2 /NDF: 307809.6/28

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

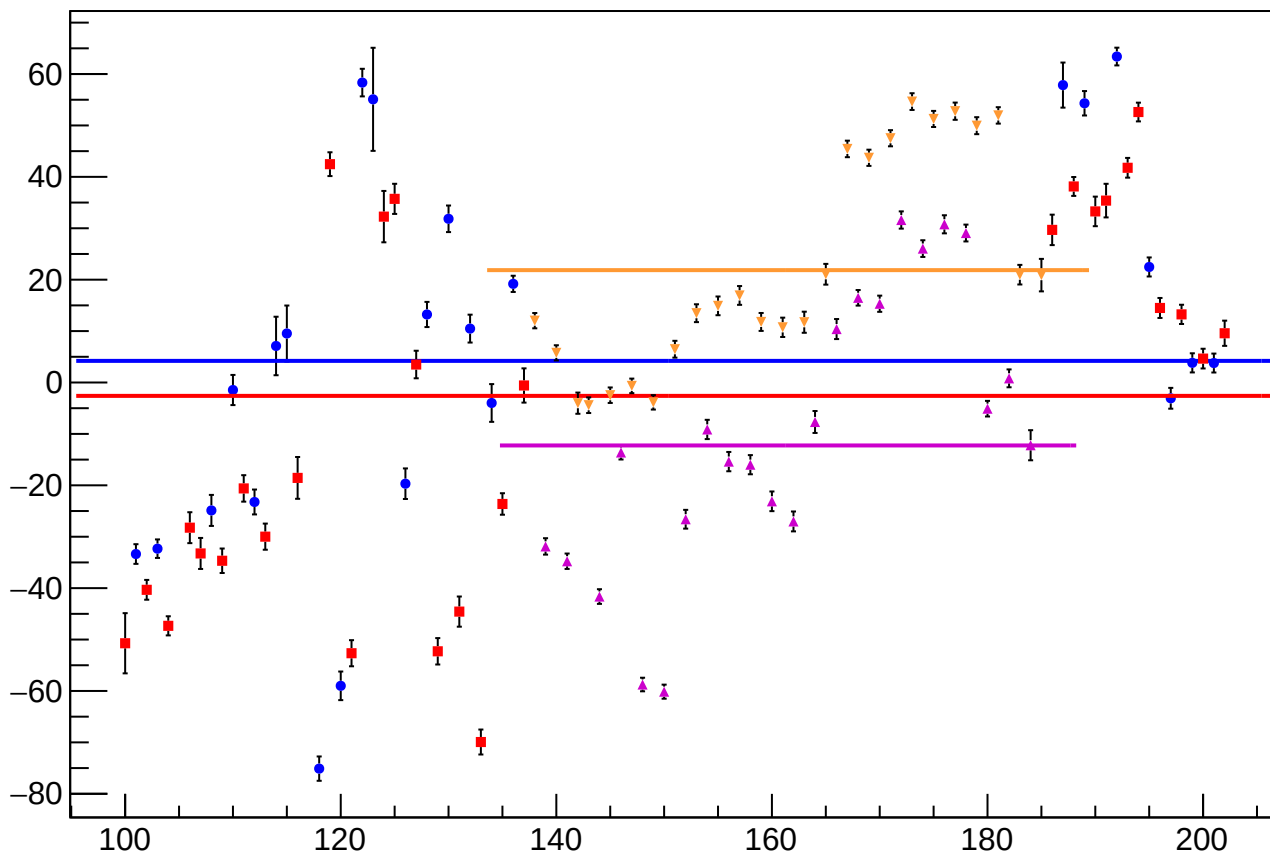
Right: 1441.321 $\pm$ 0.205 χ^2 /NDF: 572284.8/52

In: 1612.903 $\pm$ 0.214 χ^2 /NDF:984526.5/46

Out: 1585.973 $\pm$ 0.200 χ^2 /NDF:1140197.1/53

All: 1598.519 $\pm$ 0.146 χ^2 /NDF: 2133150.3/100

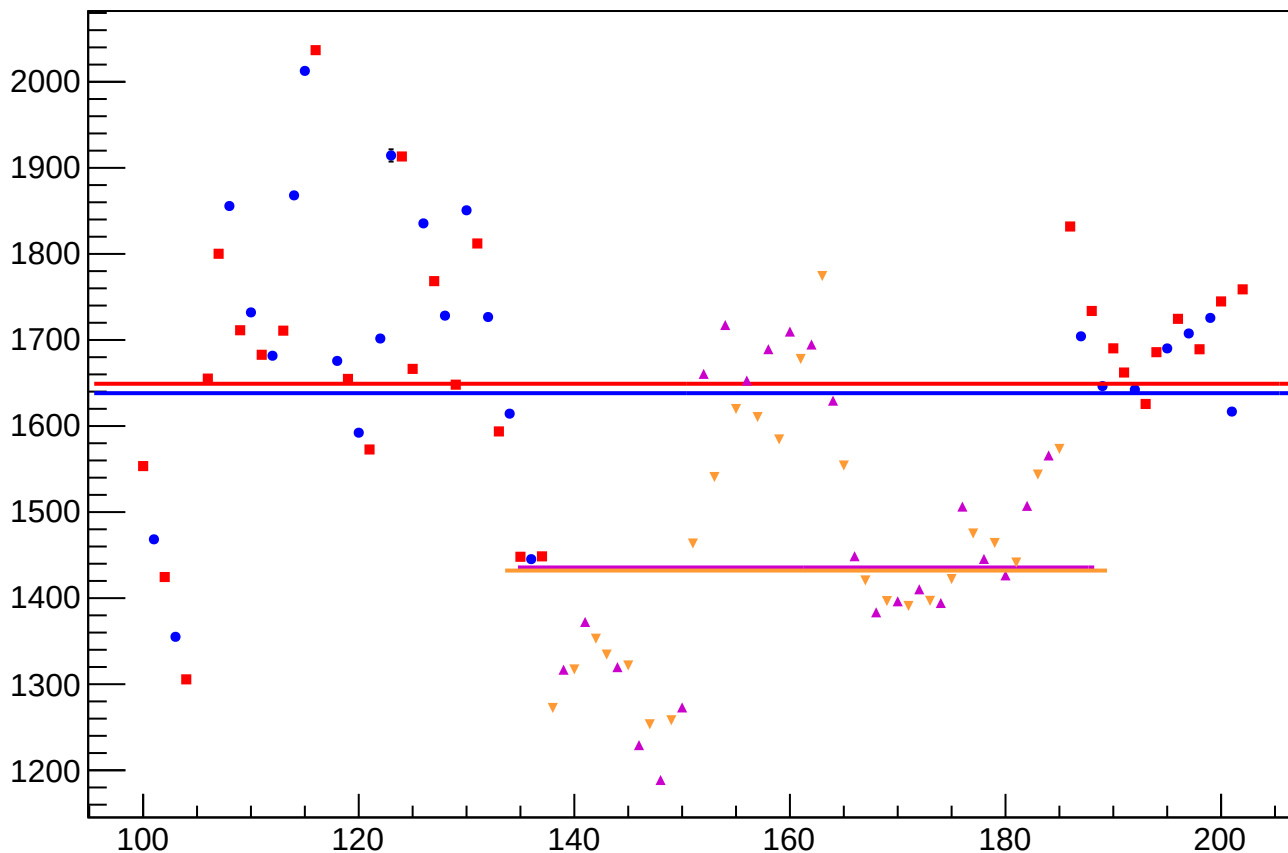
diff_bpm0i02aY_mean vs Slug, Sign Corrected



Right In: 4.205 $\pm$ 0.486 χ^2 /NDF: 5270.2/23
 Left Out: 21.856 $\pm$ 0.335 χ^2 /NDF:4110.5/24
 Right Out: -2.602 $\pm$ 0.450 χ^2 /NDF: 6548.5/28
 Left In: -12.246 $\pm$ 0.347 χ^2 /NDF:6781.6/22

Left: 5.391 $\pm$ 0.241 χ^2 /NDF: 15885.7/47
 Right: 0.540 $\pm$ 0.331 χ^2 /NDF: 11924.1/52
 In: -6.697 $\pm$ 0.283 χ^2 /NDF:12809.6/46
 Out: 13.134 $\pm$ 0.269 χ^2 /NDF:12556.2/53
 All: 3.706 $\pm$ 0.195 χ^2 /NDF: 27950.4/100

diff_bpm0i02aY_rms vs Slug, Sign Corrected



Right In: 1638.187 $\pm$ 0.344 χ^2/NDF : 160877.0/23

Left Out: 1432.060 $\pm$ 0.237 χ^2/NDF : 297360.3/24

Right Out: 1649.114 $\pm$ 0.318 χ^2/NDF : 192645.7/28

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

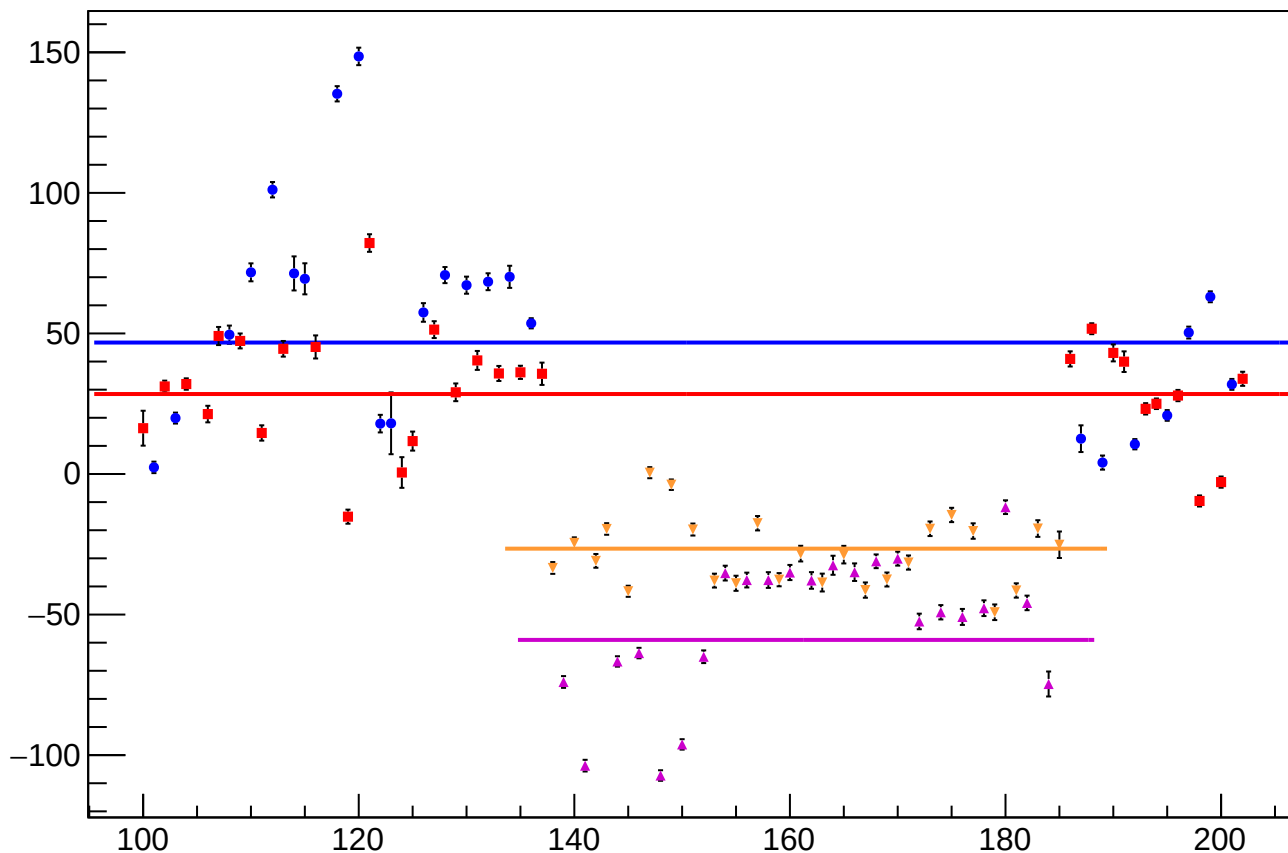
Right: 1644.071 $\pm$ 0.234 χ^2/NDF : 354066.0/52

In: 1503.958 $\pm$ 0.200 χ^2/NDF : 811461.3/46

Out: 1509.463 $\pm$ 0.190 χ^2/NDF : 788849.3/53

All: 1506.846 $\pm$ 0.138 χ^2/NDF : 1600709.0/100

diff_bpm0i05X_mean vs Slug, Sign Corrected



Right In: 46.763 ± 0.529 $\chi^2/\text{NDF}: 4648.9/23$

Left Out: -26.554 ± 0.488 $\chi^2/\text{NDF}: 717.5/24$

Right Out: 28.449 ± 0.484 $\chi^2/\text{NDF}: 1755.7/28$

Left In: -59.014 ± 0.506 $\chi^2/\text{NDF}: 2783.8/22$

Left: -42.178 ± 0.351 $\chi^2/\text{NDF}: 5632.2/47$

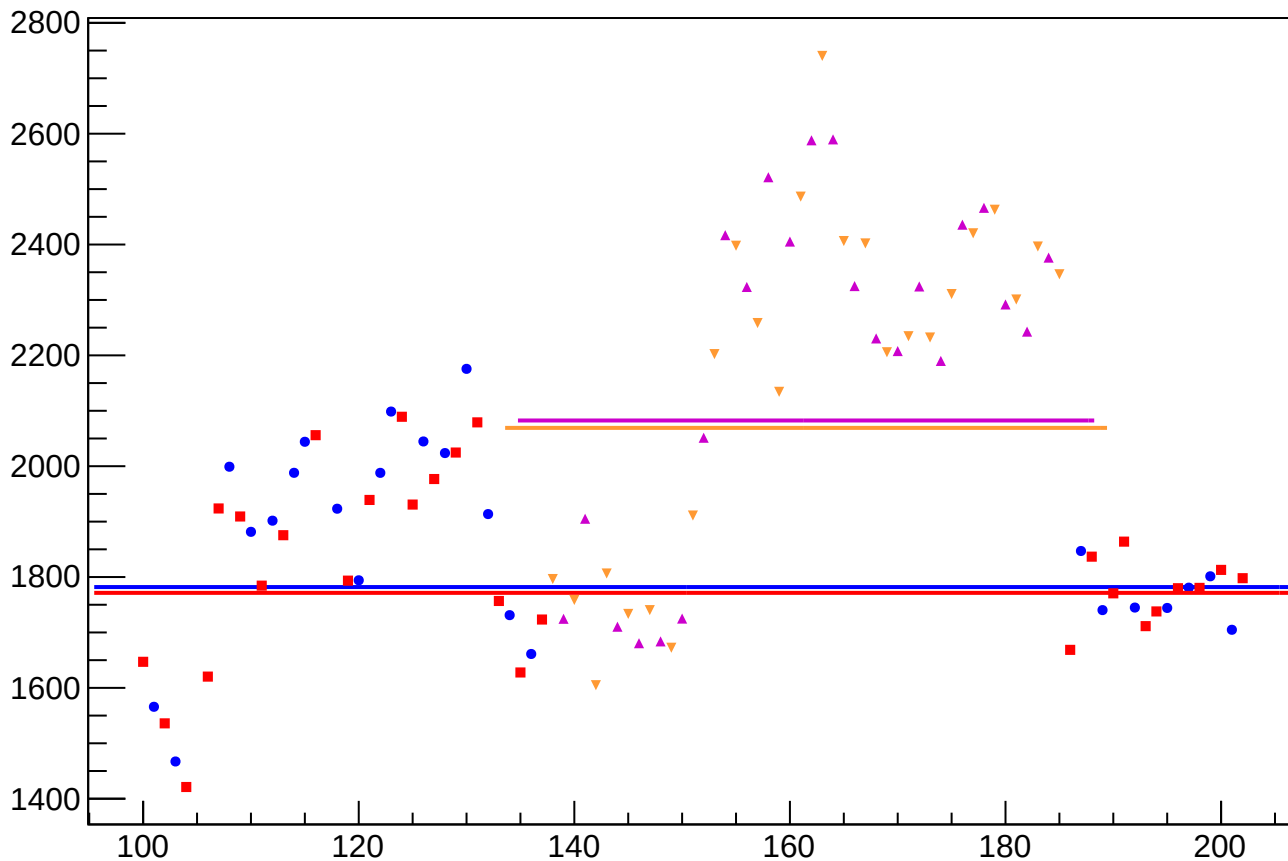
Right: 36.782 ± 0.357 $\chi^2/\text{NDF}: 7057.2/52$

In: -8.457 ± 0.366 $\chi^2/\text{NDF}: 28284.6/46$

Out: 1.190 ± 0.343 $\chi^2/\text{NDF}: 8884.8/53$

All: -3.328 ± 0.250 $\chi^2/\text{NDF}: 37538.9/100$

diff_bpm0i05X_rms vs Slug, Sign Corrected



Right In: 1781.919+/-0.374 χ^2/NDF : 191078.6/23

Left Out: 2069.146+/-0.345 χ^2/NDF : 799037.9/24

Right Out: 1771.458+/-0.342 χ^2/NDF : 187835.5/28

Left In: 2082.497+/-0.358 χ^2/NDF : 785304.0/22

Left: 2075.572+/-0.248 χ^2/NDF : 1585062.9/47

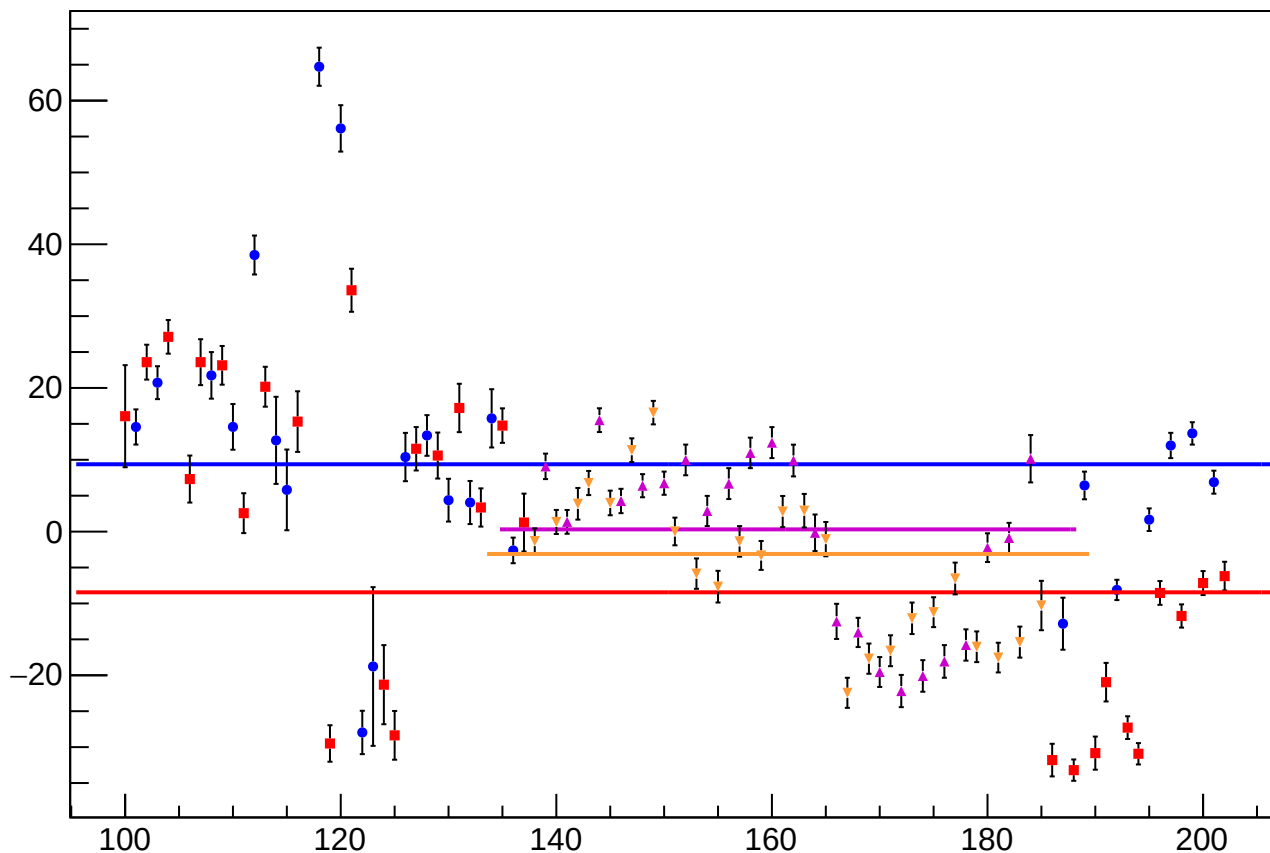
Right: 1776.218+/-0.252 χ^2/NDF : 379339.9/52

In: 1938.833+/-0.259 χ^2/NDF : 1313134.4/46

Out: 1918.990+/-0.243 χ^2/NDF : 1362486.4/53

All: 1928.284+/-0.177 χ^2/NDF : 2678748.0/100

diff_bpm0i05Y_mean vs Slug, Sign Corrected



Right In: 9.375 ± 0.483 $\chi^2/\text{NDF}: 1252.3/23$

Left Out: -3.112 ± 0.404 $\chi^2/\text{NDF}: 643.7/24$

Right Out: -8.450 ± 0.436 $\chi^2/\text{NDF}: 2269.5/28$

Left In: 0.312 ± 0.421 $\chi^2/\text{NDF}: 736.5/22$

Left: -1.470 ± 0.292 $\chi^2/\text{NDF}: 1414.7/47$

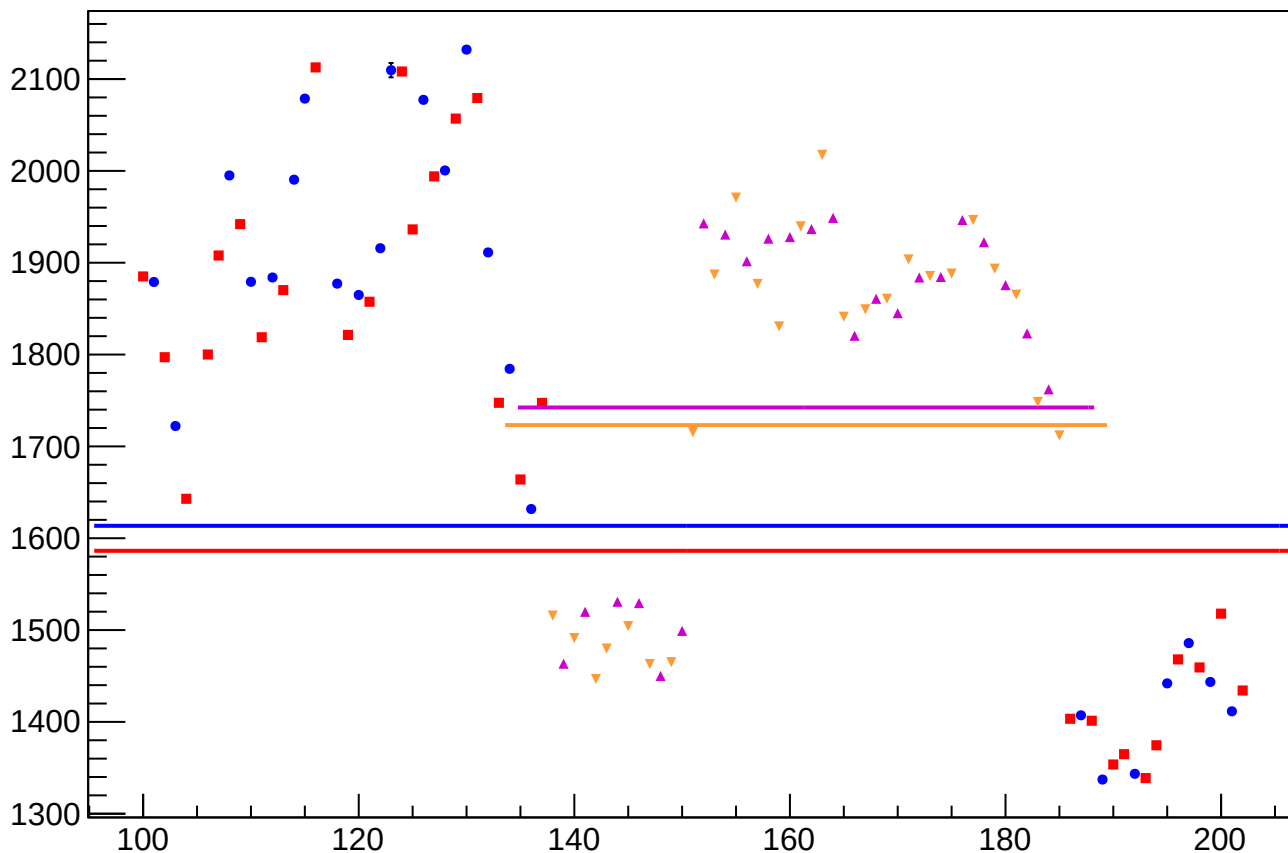
Right: -0.441 ± 0.324 $\chi^2/\text{NDF}: 4272.5/52$

In: 4.228 ± 0.317 $\chi^2/\text{NDF}: 2188.9/46$

Out: -5.579 ± 0.296 $\chi^2/\text{NDF}: 2993.9/53$

All: -1.009 ± 0.217 $\chi^2/\text{NDF}: 5692.8/100$

diff_bpm0i05Y_rms vs Slug, Sign Corrected



Right In: 1613.529 ± 0.341 $\chi^2/\text{NDF}: 537169.2/23$

Left Out: 1723.168 ± 0.286 $\chi^2/\text{NDF}: 477441.1/24$

Right Out: 1586.305 ± 0.308 $\chi^2/\text{NDF}: 562580.5/28$

Left In: 1742.354 ± 0.298 $\chi^2/\text{NDF}: 435841.5/22$

Left: 1732.370 ± 0.206 $\chi^2/\text{NDF}: 915443.3/47$

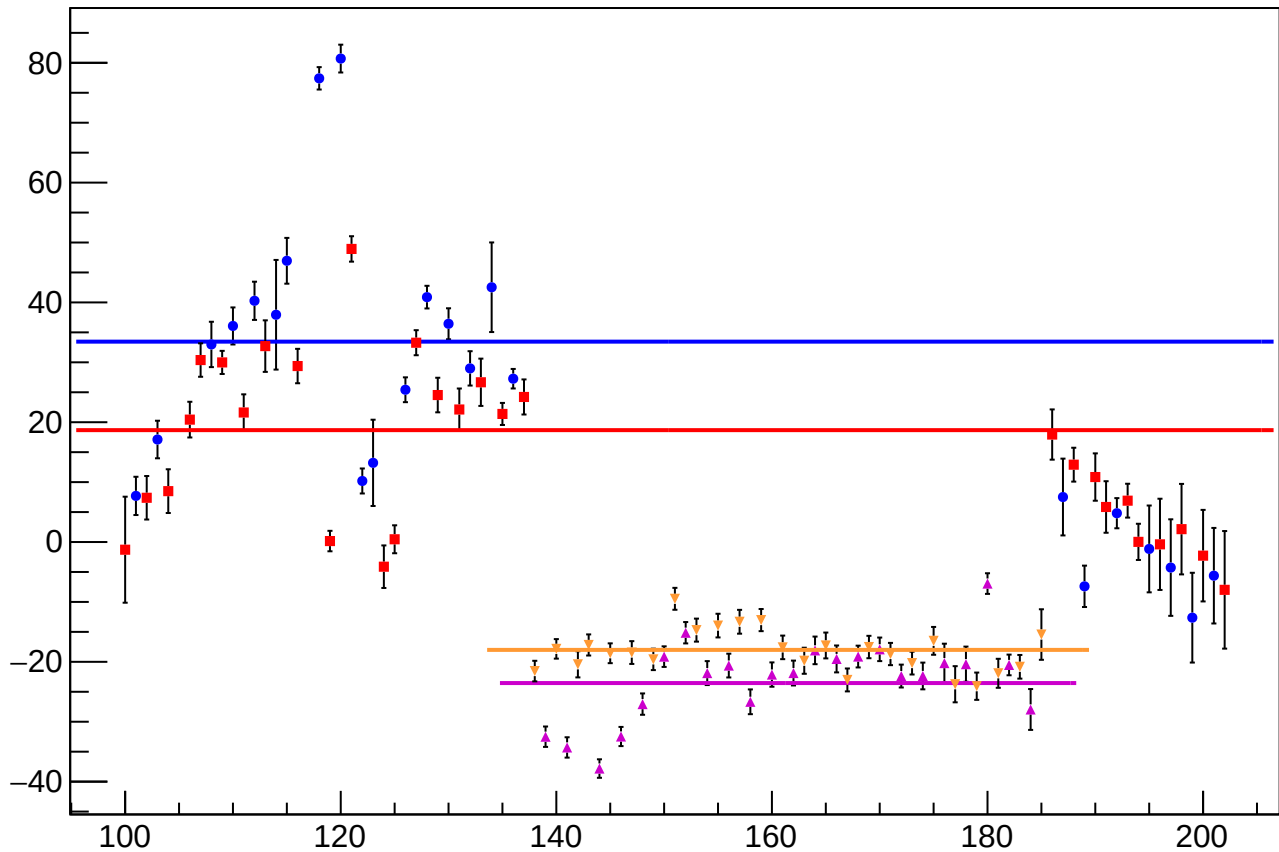
Right: 1598.537 ± 0.229 $\chi^2/\text{NDF}: 1103252.0/52$

In: 1686.692 ± 0.224 $\chi^2/\text{NDF}: 1053893.6/46$

Out: 1659.916 ± 0.210 $\chi^2/\text{NDF}: 1145975.4/53$

All: 1672.395 ± 0.153 $\chi^2/\text{NDF}: 2207472.7/100$

diff_bpm0i07X_mean vs Slug, Sign Corrected



Right In: 33.453 $\pm$ 0.599 χ^2/NDF : 1651.3/23

Left Out: -18.007 $\pm$ 0.397 χ^2/NDF : 73.8/24

Right Out: 18.677 $\pm$ 0.551 χ^2/NDF : 685.3/28

Left In: -23.544 $\pm$ 0.406 χ^2/NDF : 346.7/22

Left: -20.714 $\pm$ 0.284 χ^2/NDF : 515.7/47

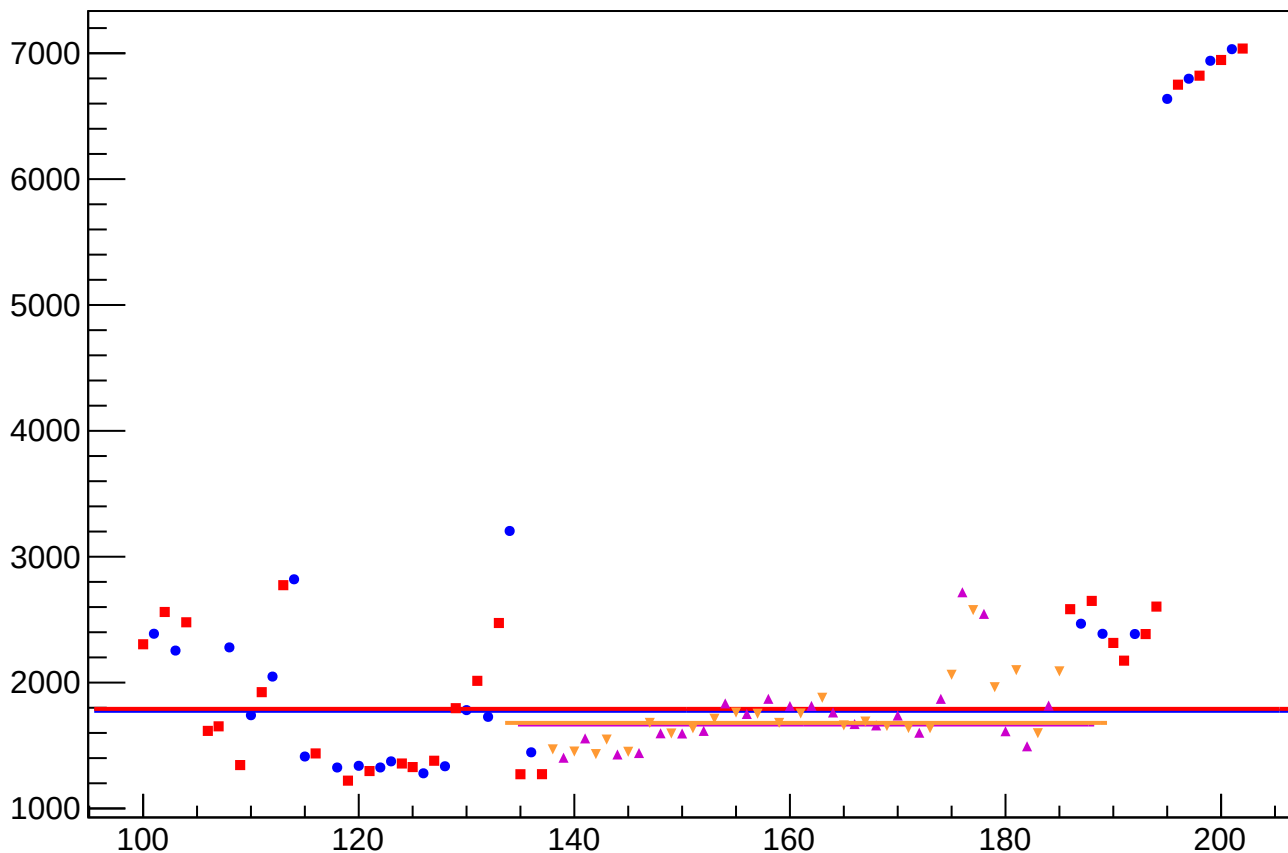
Right: 25.452 $\pm$ 0.406 χ^2/NDF : 2665.8/52

In: -5.633 $\pm$ 0.336 χ^2/NDF : 8201.8/46

Out: -5.498 $\pm$ 0.322 χ^2/NDF : 3675.4/53

All: -5.563 $\pm$ 0.232 χ^2/NDF : 11877.3/100

diff_bpm0i07X_rms vs Slug, Sign Corrected



Right In: 1775.790+/-0.424 χ^2/NDF : 4578286.9/23

Left Out: 1679.814+/-0.281 χ^2/NDF : 522795.6/24

Right Out: 1791.266+/-0.390 χ^2/NDF : 4989079.4/28

Left In: 1666.819+/-0.287 χ^2/NDF : 650990.8/22

Left: 1673.462+/-0.201 χ^2/NDF : 1174835.7/47

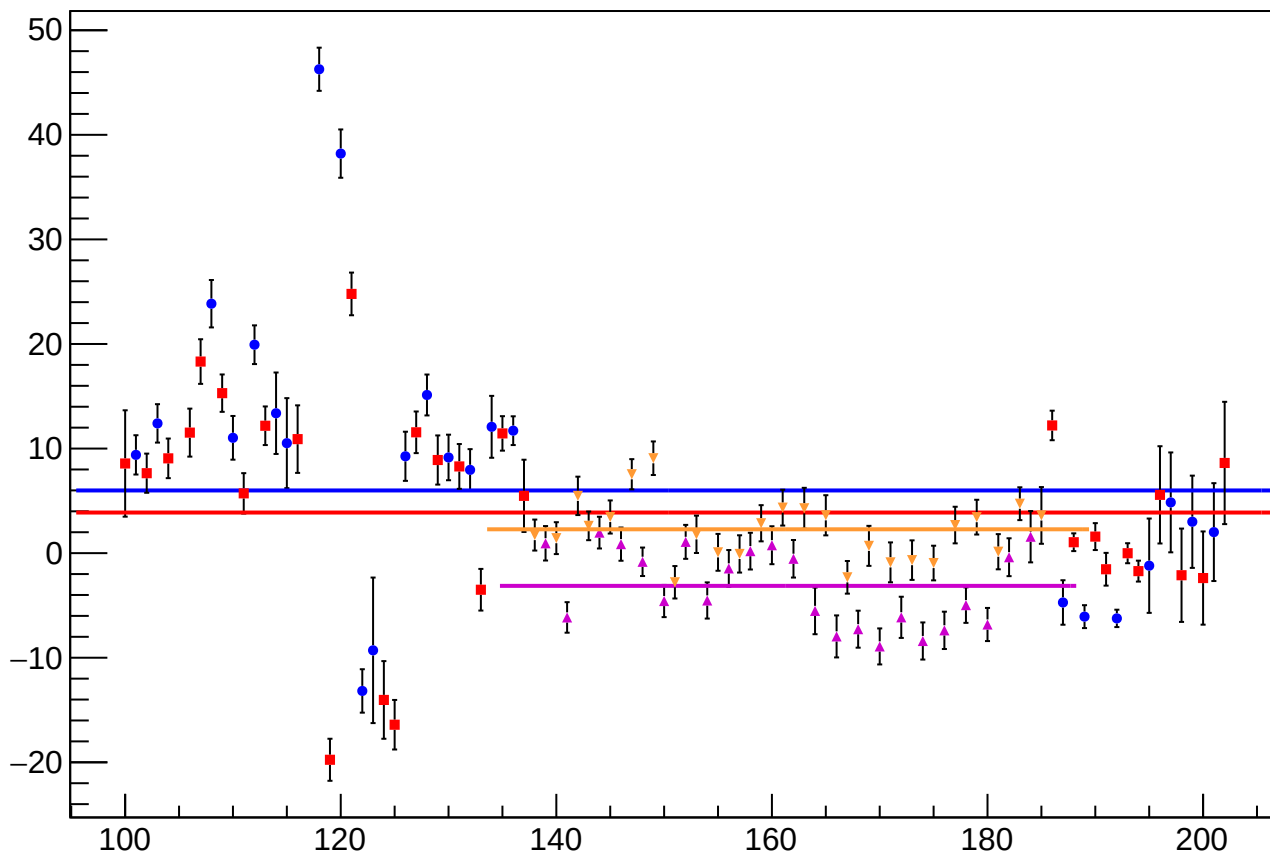
Right: 1784.169+/-0.287 χ^2/NDF : 9568088.6/52

In: 1701.062+/-0.238 χ^2/NDF : 5274630.4/46

Out: 1717.820+/-0.228 χ^2/NDF : 5565709.6/53

All: 1709.795+/-0.164 χ^2/NDF : 10842933.8/100

diff_bpm0i07Y_mean vs Slug, Sign Corrected



Right In: 5.994 ± 0.397 $\chi^2/\text{NDF}: 1225.8/23$

Left Out: 2.280 ± 0.338 $\chi^2/\text{NDF}: 75.6/24$

Right Out: 3.883 ± 0.329 $\chi^2/\text{NDF}: 648.1/28$

Left In: -3.129 ± 0.358 $\chi^2/\text{NDF}: 103.4/22$

Left: -0.274 ± 0.246 $\chi^2/\text{NDF}: 299.7/47$

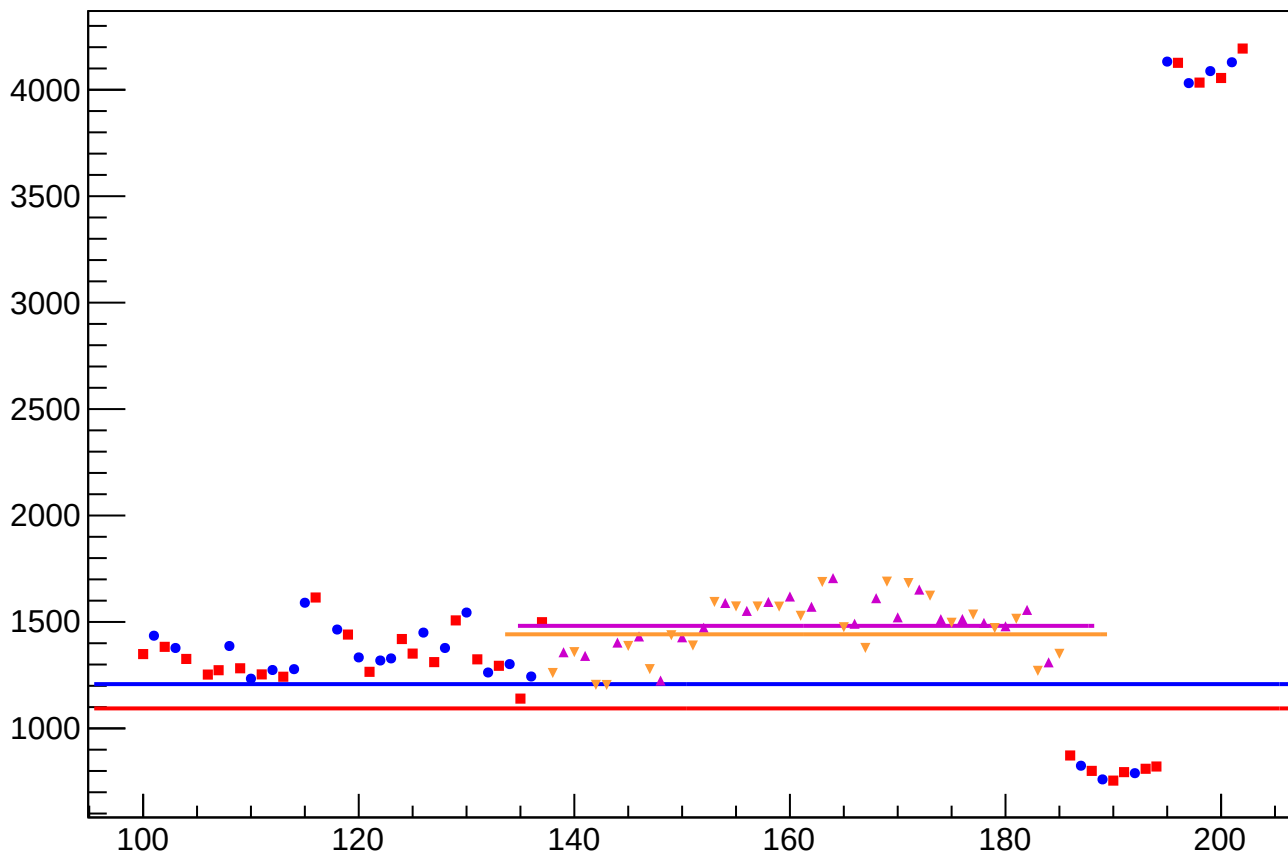
Right: 4.741 ± 0.253 $\chi^2/\text{NDF}: 1890.7/52$

In: 0.955 ± 0.266 $\chi^2/\text{NDF}: 1620.4/46$

Out: 3.104 ± 0.236 $\chi^2/\text{NDF}: 735.2/53$

All: 2.157 ± 0.176 $\chi^2/\text{NDF}: 2392.2/100$

diff_bpm0i07Y_rms vs Slug, Sign Corrected



Right In: 1207.976 $\pm$ 0.281 χ^2/NDF : 4287949.2/23

Left Out: 1441.951 $\pm$ 0.239 χ^2/NDF : 370617.4/24

Right Out: 1093.872 $\pm$ 0.233 χ^2/NDF : 4467154.6/28

Left In: 1481.695 $\pm$ 0.253 χ^2/NDF : 208470.6/22

Left: 1460.716 $\pm$ 0.174 χ^2/NDF : 592125.7/47

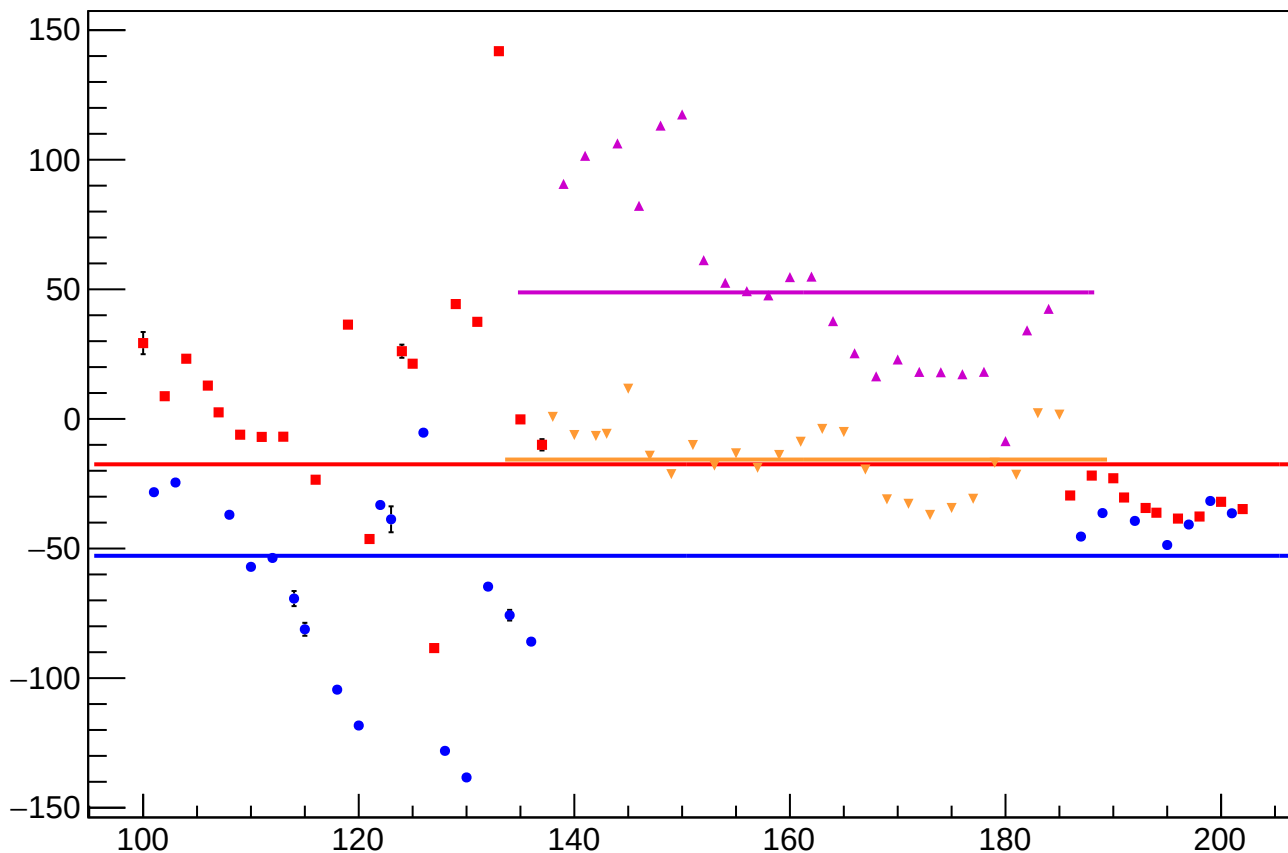
Right: 1140.261 $\pm$ 0.179 χ^2/NDF : 8852989.2/52

In: 1359.186 $\pm$ 0.188 χ^2/NDF : 5020768.7/46

Out: 1263.017 $\pm$ 0.167 χ^2/NDF : 5926554.7/53

All: 1305.365 $\pm$ 0.125 χ^2/NDF : 11093830.4/100

diff_bpm1i02X_mean vs Slug, Sign Corrected



Right In: -52.804 ± 0.231 $\chi^2/\text{NDF}: 16977.1/23$

Left Out: -15.666 ± 0.212 $\chi^2/\text{NDF}: 3518.1/24$

Right Out: -17.510 ± 0.207 $\chi^2/\text{NDF}: 28292.1/28$

Left In: 48.812 ± 0.220 $\chi^2/\text{NDF}: 25260.8/22$

Left: 15.324 ± 0.152 $\chi^2/\text{NDF}: 73443.2/47$

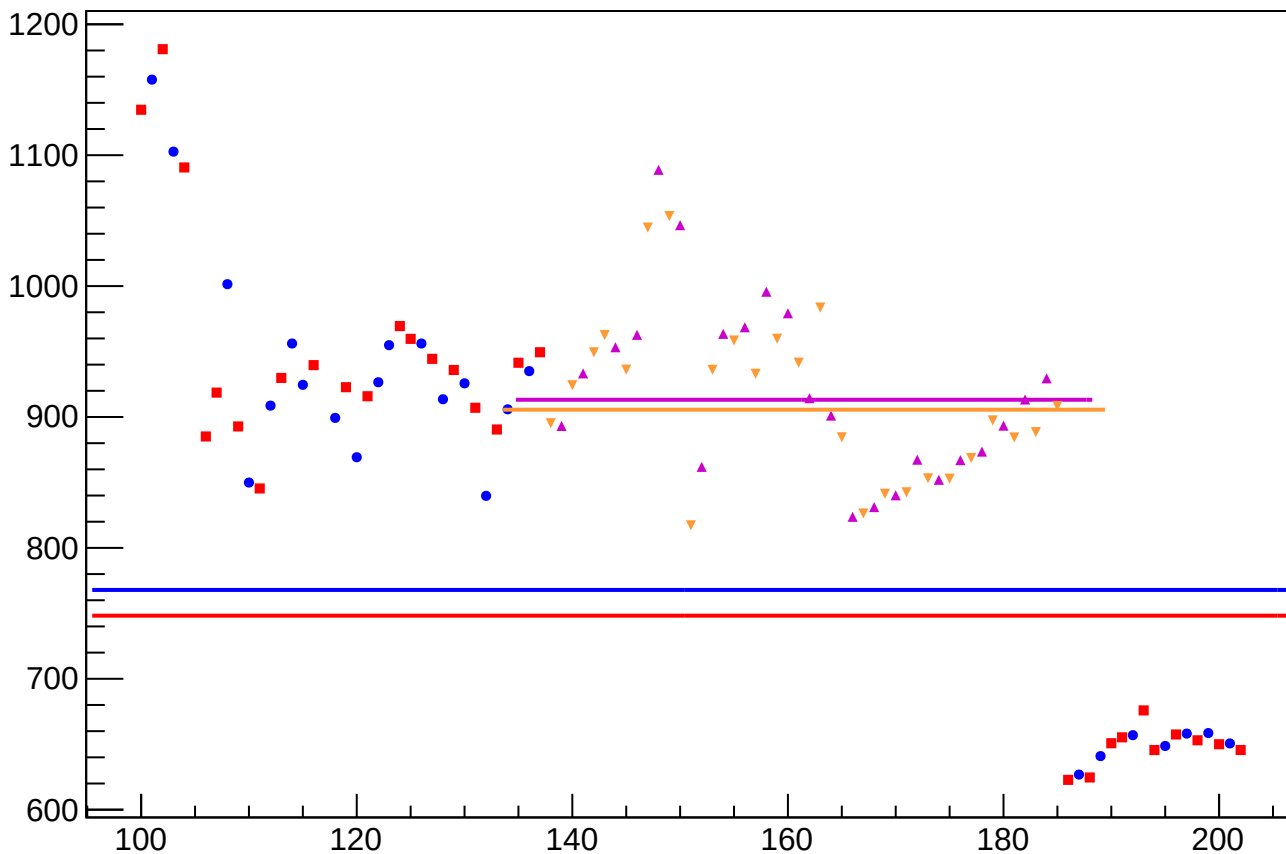
Right: -33.237 ± 0.154 $\chi^2/\text{NDF}: 58190.8/52$

In: 0.549 ± 0.159 $\chi^2/\text{NDF}: 143683.4/46$

Out: -16.607 ± 0.148 $\chi^2/\text{NDF}: 31848.9/53$

All: -8.658 ± 0.108 $\chi^2/\text{NDF}: 181755.4/100$

diff_bpm1i02X_rms vs Slug, Sign Corrected



Right In: 767.879 $\pm$ 0.163 χ^2 /NDF: 834329.1/23

Left Out: 905.578 $\pm$ 0.150 χ^2 /NDF:162073.5/24

Right Out: 748.217 $\pm$ 0.147 χ^2 /NDF: 991662.7/28

Left In: 913.165 $\pm$ 0.155 χ^2 /NDF:174438.8/22

Left: 909.225 $\pm$ 0.108 χ^2 /NDF: 337749.0/47

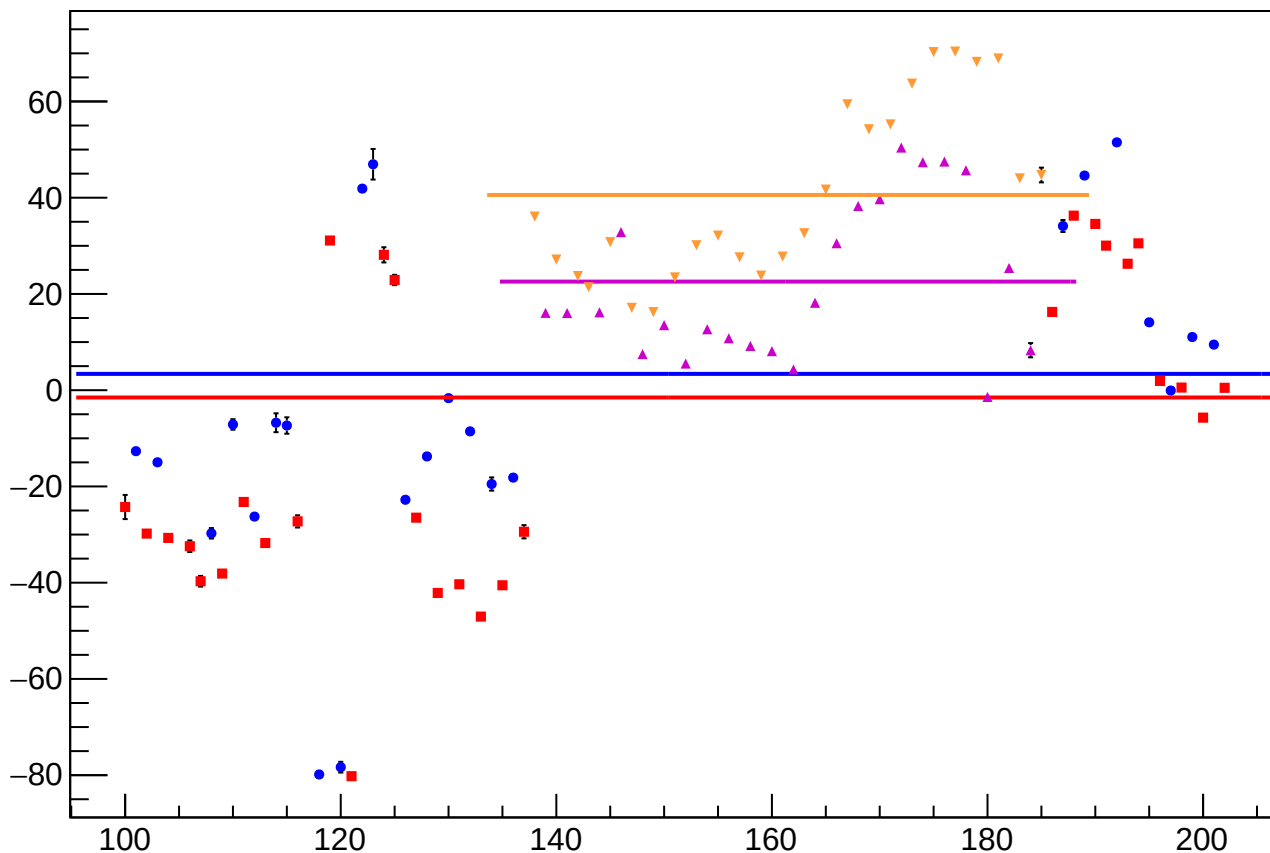
Right: 756.979 $\pm$ 0.109 χ^2 /NDF: 1834012.8/52

In: 844.160 $\pm$ 0.113 χ^2 /NDF:1423515.5/46

Out: 825.297 $\pm$ 0.105 χ^2 /NDF:1718497.1/53

All: 834.037 $\pm$ 0.077 χ^2 /NDF: 3157059.5/100

diff_bpm1i02Y_mean vs Slug, Sign Corrected



Right In: 3.391 ± 0.165 $\chi^2/\text{NDF}: 35524.9/23$

Left Out: 40.573 ± 0.168 $\chi^2/\text{NDF}: 12079.0/24$

Right Out: -1.515 ± 0.149 $\chi^2/\text{NDF}: 40994.5/28$

Left In: 22.565 ± 0.175 $\chi^2/\text{NDF}: 8167.7/22$

Left: 31.959 ± 0.121 $\chi^2/\text{NDF}: 25752.7/47$

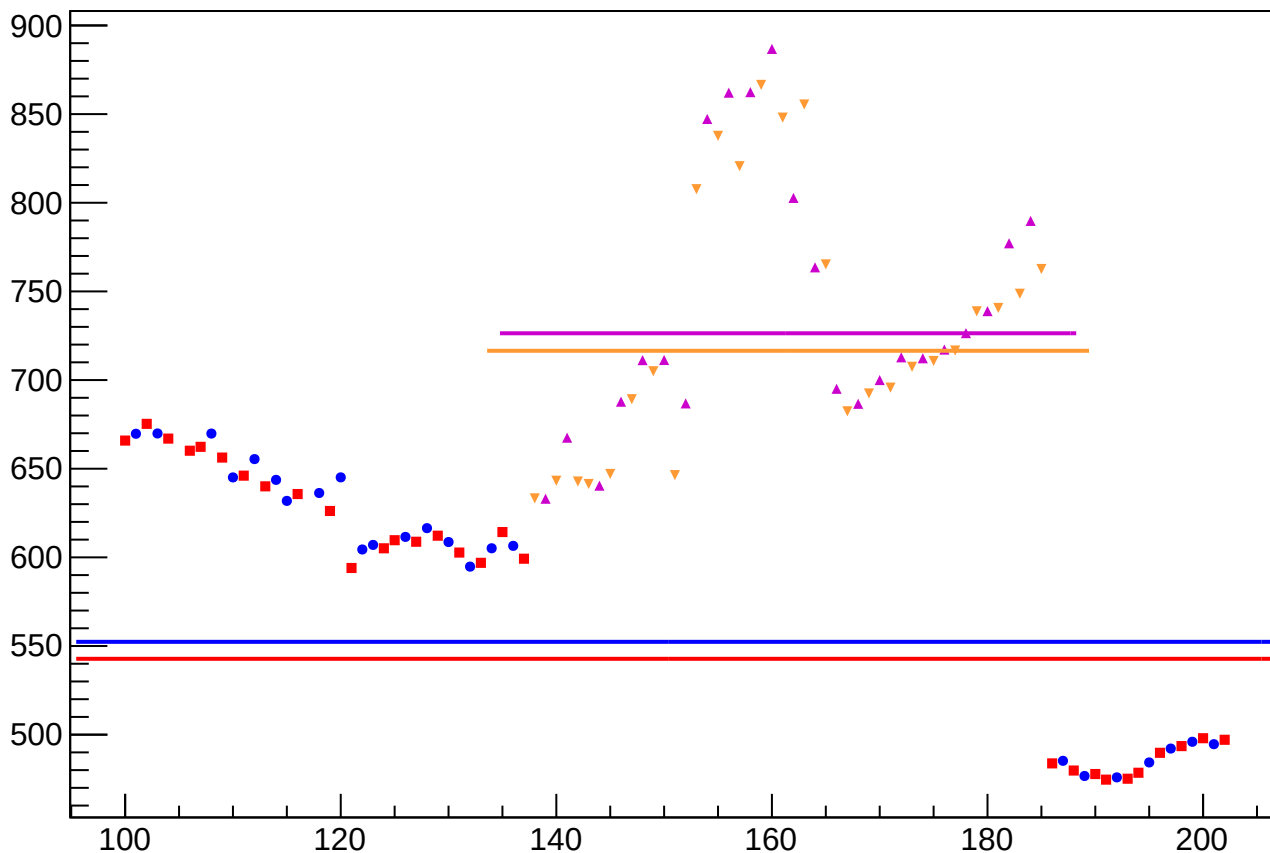
Right: 0.692 ± 0.110 $\chi^2/\text{NDF}: 77007.9/52$

In: 12.379 ± 0.120 $\chi^2/\text{NDF}: 50049.8/46$

Out: 17.014 ± 0.111 $\chi^2/\text{NDF}: 88271.3/53$

All: 14.869 ± 0.082 $\chi^2/\text{NDF}: 139122.7/100$

diff_bpm1i02Y_rms vs Slug, Sign Corrected



Right In: 552.357+/-0.116 χ^2/NDF : 401318.2/23

Left Out: 716.515+/-0.119 χ^2/NDF : 342740.2/24

Right Out: 542.781+/-0.105 χ^2/NDF : 477727.5/28

Left In: 726.390+/-0.124 χ^2/NDF : 289788.8/22

Left: 721.238+/-0.086 χ^2/NDF : 635840.6/47

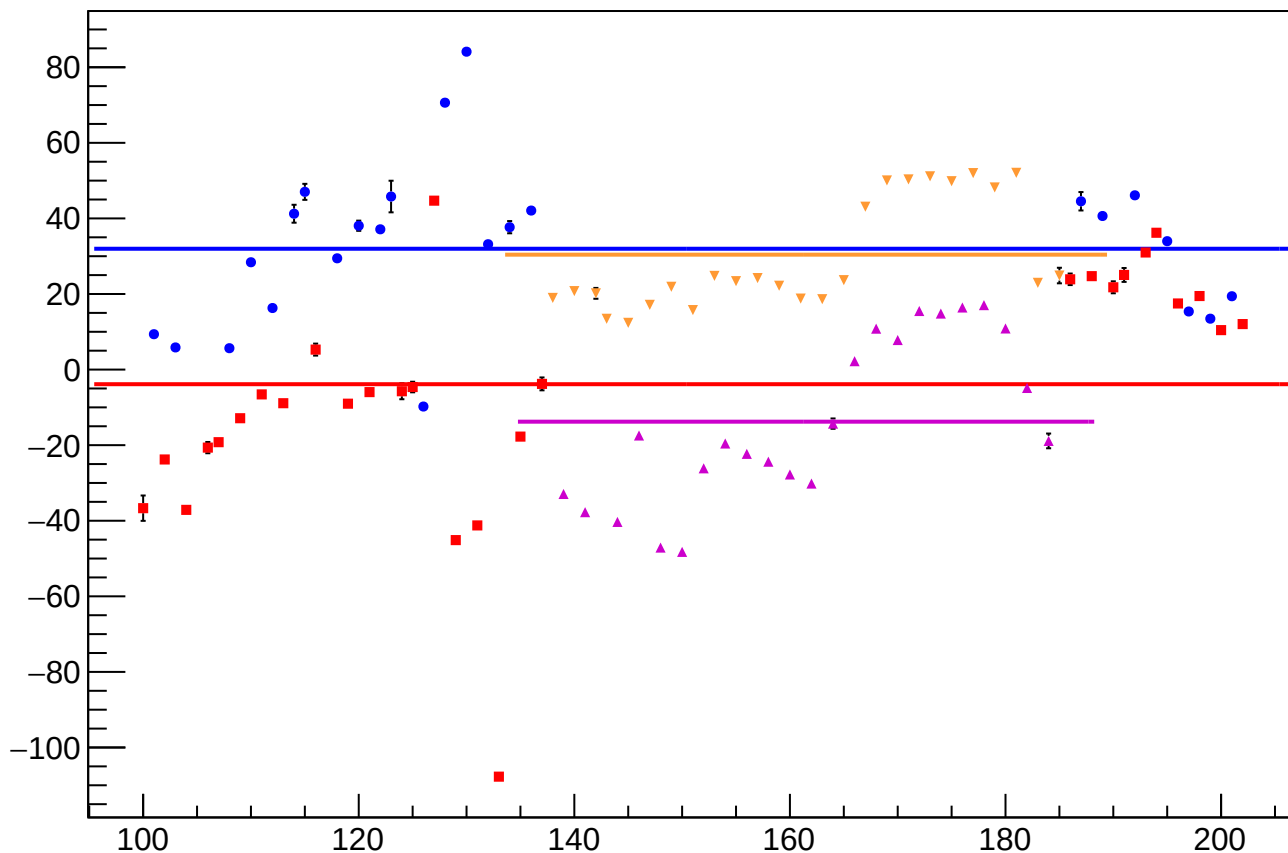
Right: 547.088+/-0.078 χ^2/NDF : 882768.6/52

In: 633.931+/-0.085 χ^2/NDF : 1738559.9/46

Out: 619.267+/-0.079 χ^2/NDF : 2019992.7/53

All: 626.052+/-0.058 χ^2/NDF : 3774598.7/100

diff_bpm1i04X_mean vs Slug, Sign Corrected



Right In: 31.974 $\pm$ 0.246 χ^2 /NDF: 7436.1/23

Left Out: 30.408 $\pm$ 0.237 χ^2 /NDF:3808.0/24

Right Out: -3.868 $\pm$ 0.230 χ^2 /NDF: 19942.6/28

Left In: -13.787 $\pm$ 0.246 χ^2 /NDF:7979.7/22

Left: 9.082 $\pm$ 0.171 χ^2 /NDF: 28511.9/47

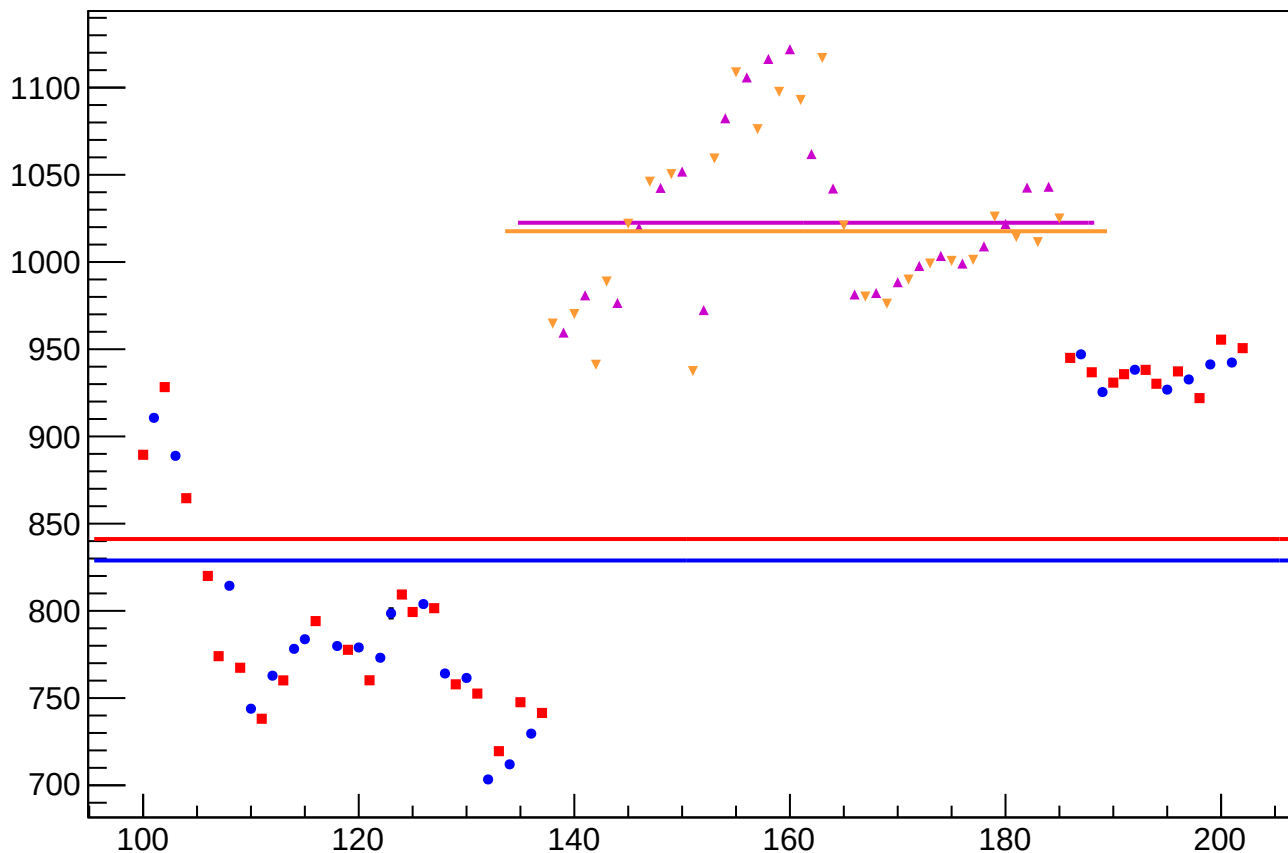
Right: 12.817 $\pm$ 0.168 χ^2 /NDF: 38697.8/52

In: 9.050 $\pm$ 0.174 χ^2 /NDF:32708.6/46

Out: 12.717 $\pm$ 0.165 χ^2 /NDF:34510.5/53

All: 10.979 $\pm$ 0.120 χ^2 /NDF: 67452.8/100

diff_bpm1i04X_rms vs Slug, Sign Corrected



Right In: 828.884 ± 0.174 $\chi^2/\text{NDF}: 250752.0/23$

Left Out: 1017.653 ± 0.168 $\chi^2/\text{NDF}: 83612.5/24$

Right Out: 841.180 ± 0.163 $\chi^2/\text{NDF}: 279158.0/28$

Left In: 1022.511 ± 0.174 $\chi^2/\text{NDF}: 69635.5/22$

Left: 1019.997 ± 0.121 $\chi^2/\text{NDF}: 153652.2/47$

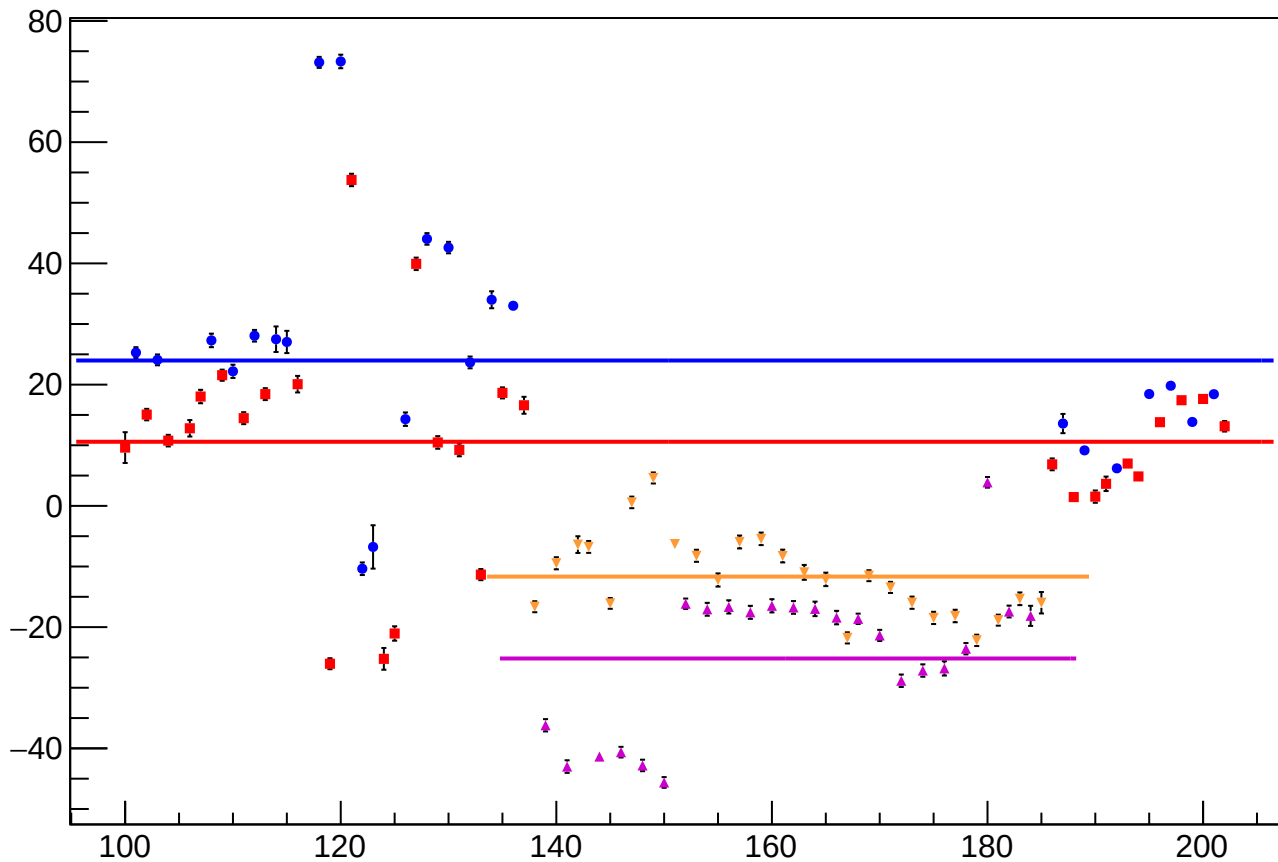
Right: 835.456 ± 0.119 $\chi^2/\text{NDF}: 532573.9/52$

In: 925.882 ± 0.123 $\chi^2/\text{NDF}: 939599.3/46$

Out: 926.569 ± 0.117 $\chi^2/\text{NDF}: 933188.5/53$

All: 926.244 ± 0.085 $\chi^2/\text{NDF}: 1872804.2/100$

diff_bpm1i04Y_mean vs Slug, Sign Corrected



Right In: 23.981 ± 0.184 $\chi^2/\text{NDF}: 8849.7/23$

Left Out: -11.664 ± 0.200 $\chi^2/\text{NDF}: 1147.4/24$

Right Out: 10.578 ± 0.172 $\chi^2/\text{NDF}: 7014.9/28$

Left In: -25.174 ± 0.207 $\chi^2/\text{NDF}: 3747.1/22$

Left: -18.184 ± 0.144 $\chi^2/\text{NDF}: 7090.4/47$

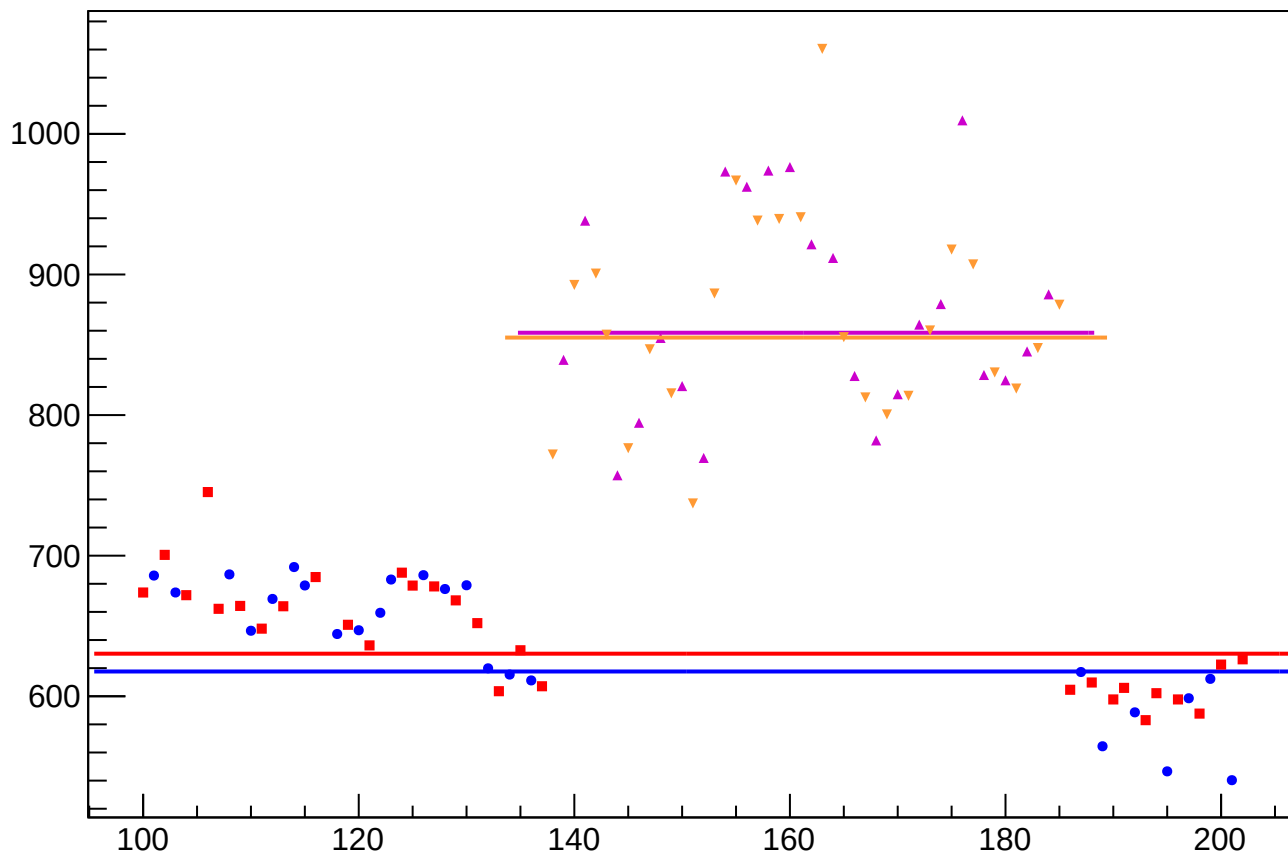
Right: 16.836 ± 0.125 $\chi^2/\text{NDF}: 18707.3/52$

In: 2.390 ± 0.137 $\chi^2/\text{NDF}: 44102.3/46$

Out: 1.152 ± 0.130 $\chi^2/\text{NDF}: 15268.2/53$

All: 1.738 ± 0.095 $\chi^2/\text{NDF}: 59413.2/100$

diff_bpm1i04Y_rms vs Slug, Sign Corrected



Right In: 617.622 ± 0.130 χ^2/NDF : 142851.2/23

Left Out: 855.131 ± 0.142 χ^2/NDF : 233746.7/24

Right Out: 630.282 ± 0.121 χ^2/NDF : 89675.0/28

Left In: 858.563 ± 0.147 χ^2/NDF : 239019.8/22

Left: 856.788 ± 0.102 χ^2/NDF : 473049.9/47

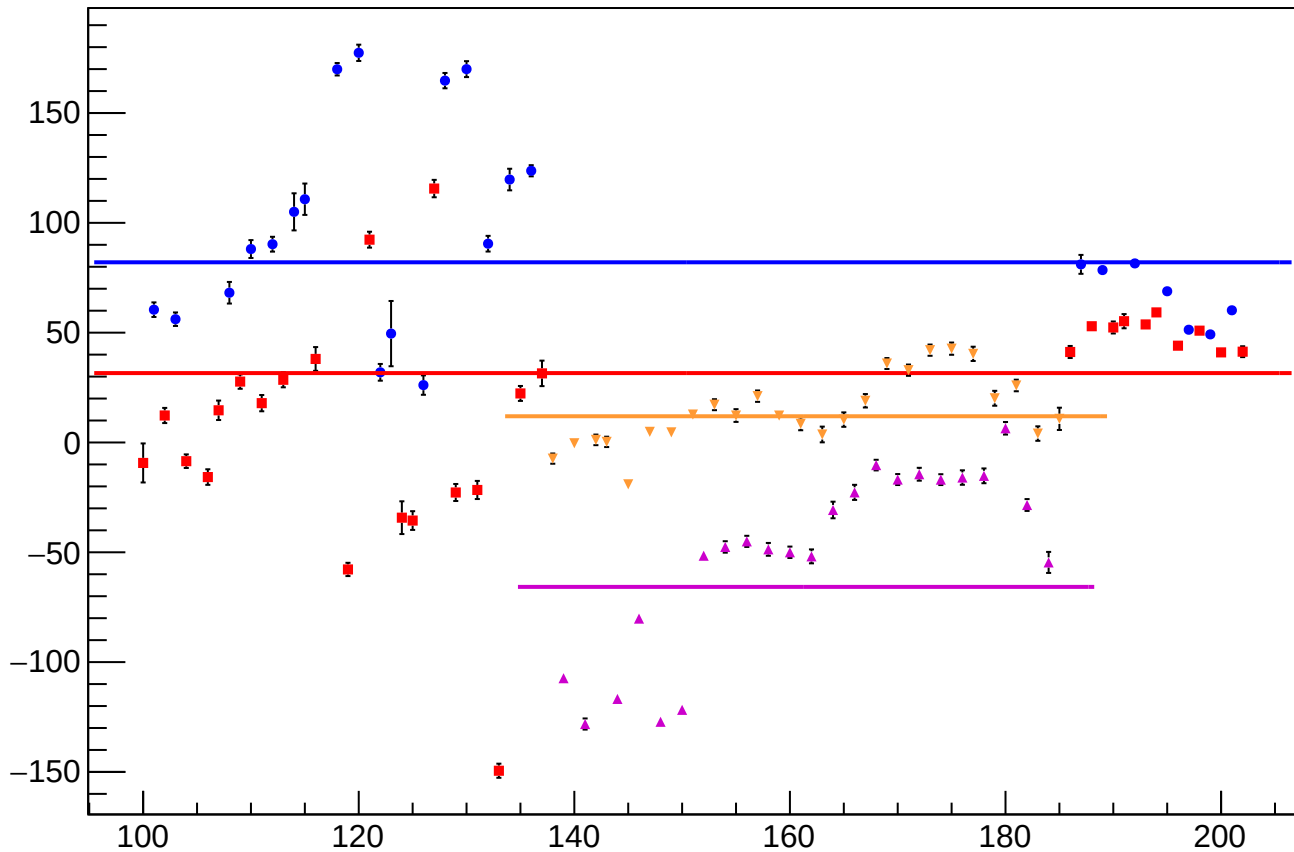
Right: 624.371 ± 0.089 χ^2/NDF : 237599.1/52

In: 723.456 ± 0.097 χ^2/NDF : 1895814.5/46

Out: 725.575 ± 0.092 χ^2/NDF : 1775835.6/53

All: 724.571 ± 0.067 χ^2/NDF : 3671900.2/100

diff_bpm1i06X_mean vs Slug, Sign Corrected



Right In: 82.036 $\pm$ 0.574 χ^2/NDF : 4370.2/23

Left Out: 11.938 $\pm$ 0.505 χ^2/NDF : 976.6/24

Right Out: 31.593 $\pm$ 0.528 χ^2/NDF : 6761.5/28

Left In: -65.752 $\pm$ 0.518 χ^2/NDF : 7335.8/22

Left: -25.968 $\pm$ 0.362 χ^2/NDF : 19845.5/47

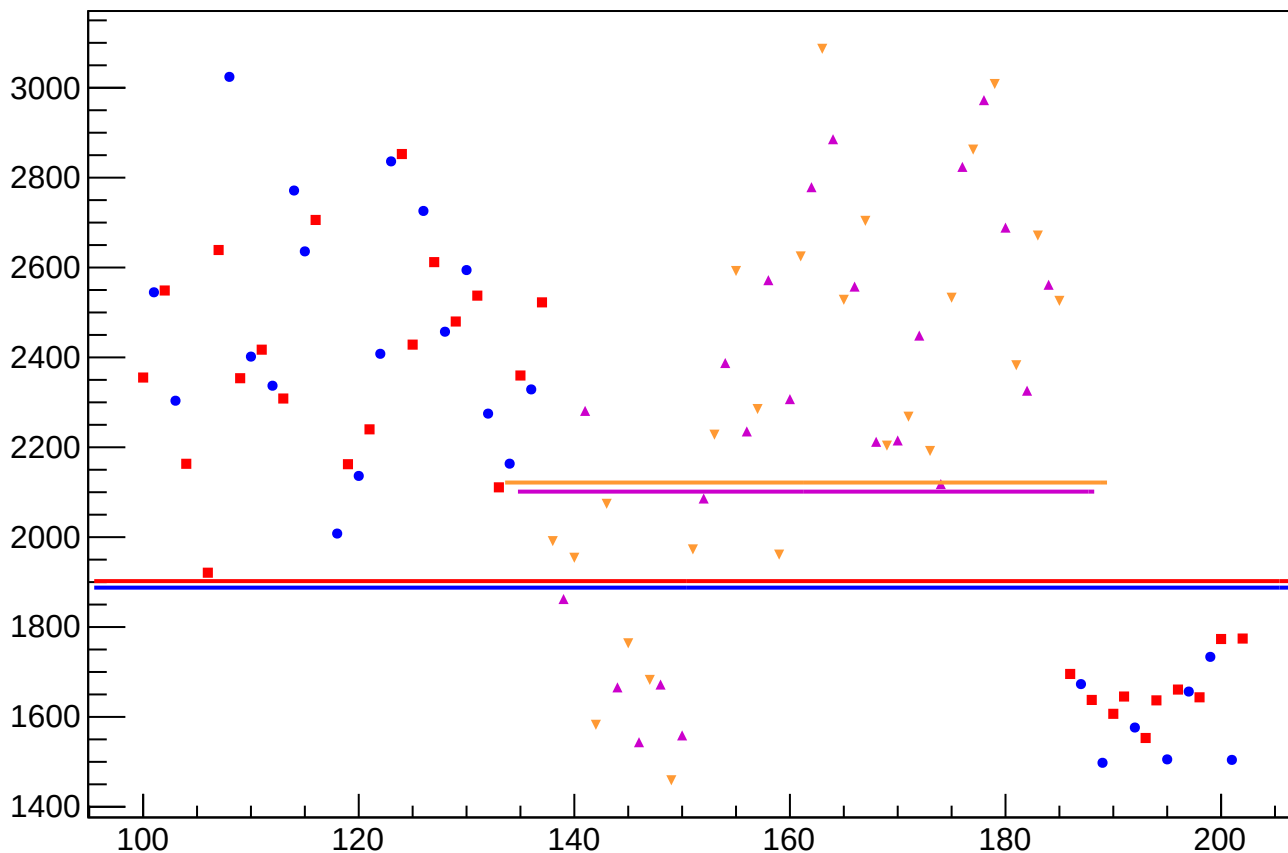
Right: 54.689 $\pm$ 0.388 χ^2/NDF : 15318.4/52

In: 0.536 $\pm$ 0.384 χ^2/NDF : 48261.4/46

Out: 21.344 $\pm$ 0.365 χ^2/NDF : 8462.1/53

All: 11.482 $\pm$ 0.265 χ^2/NDF : 58264.5/100

diff_bpm1i06X_rms vs Slug, Sign Corrected



Right In: 1887.696 $\pm$ 0.406 χ^2 /NDF: 1064799.9/23

Left Out: 2121.567 $\pm$ 0.357 χ^2 /NDF:1387847.6/24

Right Out: 1902.194 $\pm$ 0.373 χ^2 /NDF: 910032.2/28

Left In: 2101.325 $\pm$ 0.366 χ^2 /NDF:1360518.3/22

Left: 2111.691 $\pm$ 0.256 χ^2 /NDF: 2749931.8/47

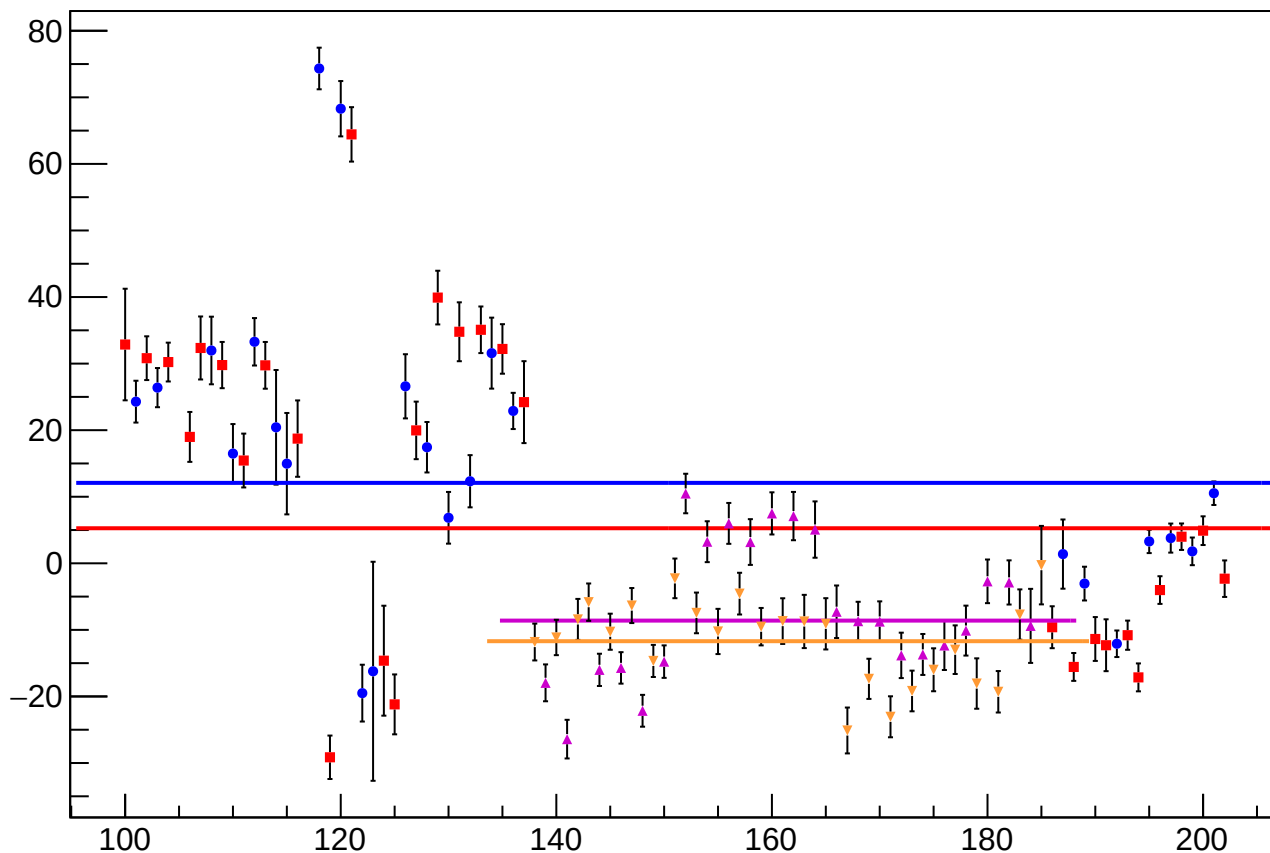
Right: 1895.556 $\pm$ 0.275 χ^2 /NDF: 1975523.8/52

In: 2005.505 $\pm$ 0.272 χ^2 /NDF:2578083.0/46

Out: 2016.592 $\pm$ 0.258 χ^2 /NDF:2478251.4/53

All: 2011.337 $\pm$ 0.187 χ^2 /NDF: 5057209.5/100

diff_bpm1i06Y_mean vs Slug, Sign Corrected



Right In: 12.084 $\pm$ 0.623 χ^2/NDF : 1022.4/23

Left Out: -11.700 $\pm$ 0.625 χ^2/NDF :85.0/24

Right Out: 5.267 $\pm$ 0.586 χ^2/NDF : 1289.4/28

Left In: -8.606 $\pm$ 0.642 χ^2/NDF :264.2/22

Left: -10.193 $\pm$ 0.448 χ^2/NDF : 361.1/47

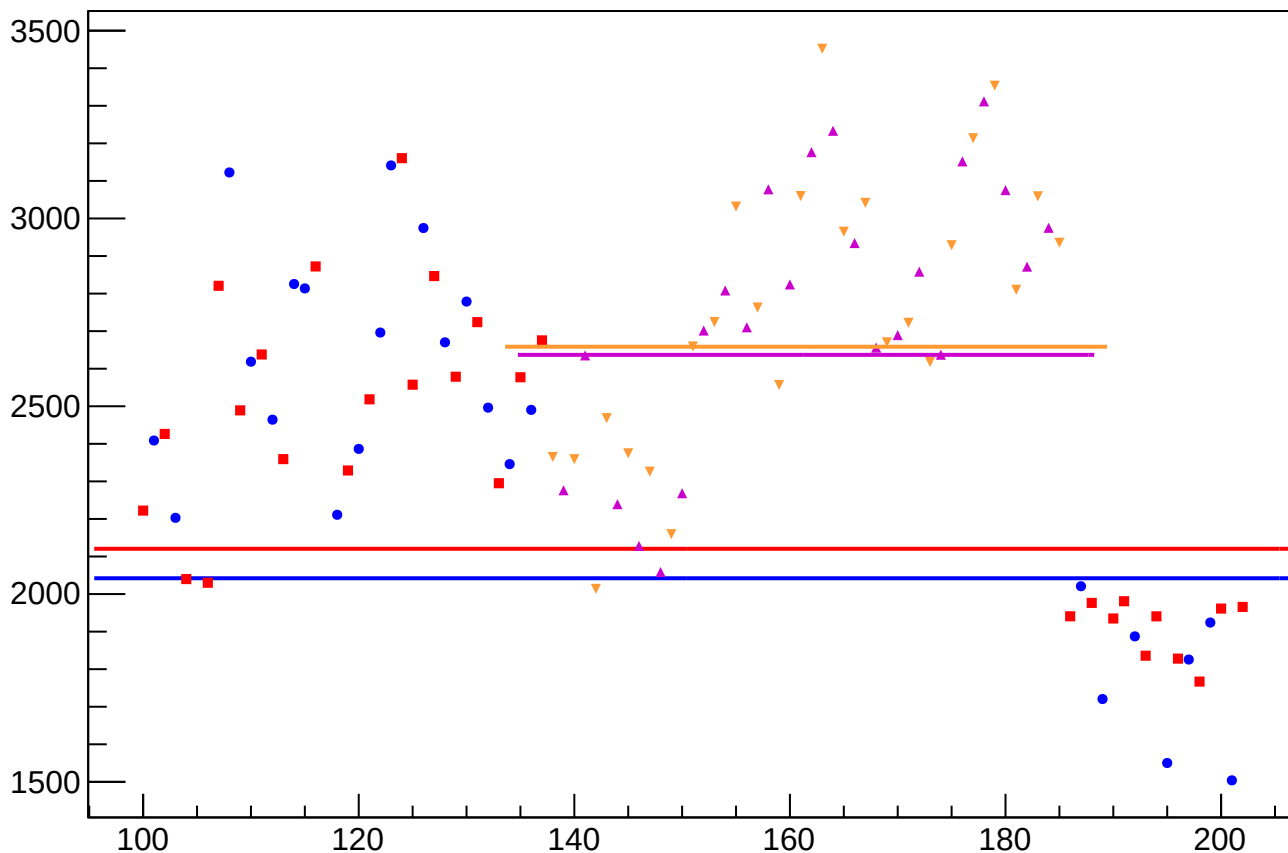
Right: 8.468 $\pm$ 0.427 χ^2/NDF : 2375.4/52

In: 2.056 $\pm$ 0.447 χ^2/NDF :1822.0/46

Out: -2.660 $\pm$ 0.428 χ^2/NDF :1766.5/53

All: -0.406 $\pm$ 0.309 χ^2/NDF : 3646.7/100

diff_bpm1i06Y_rms vs Slug, Sign Corrected



Right In: 2042.105 $\pm$ 0.440 χ^2 /NDF: 1000768.1/23

Left Out: 2658.486 $\pm$ 0.442 χ^2 /NDF: 618133.8/24

Right Out: 2120.556 $\pm$ 0.414 χ^2 /NDF: 604944.6/28

Left In: 2636.885 $\pm$ 0.454 χ^2 /NDF: 652894.5/22

Left: 2647.967 $\pm$ 0.317 χ^2 /NDF: 1272190.1/47

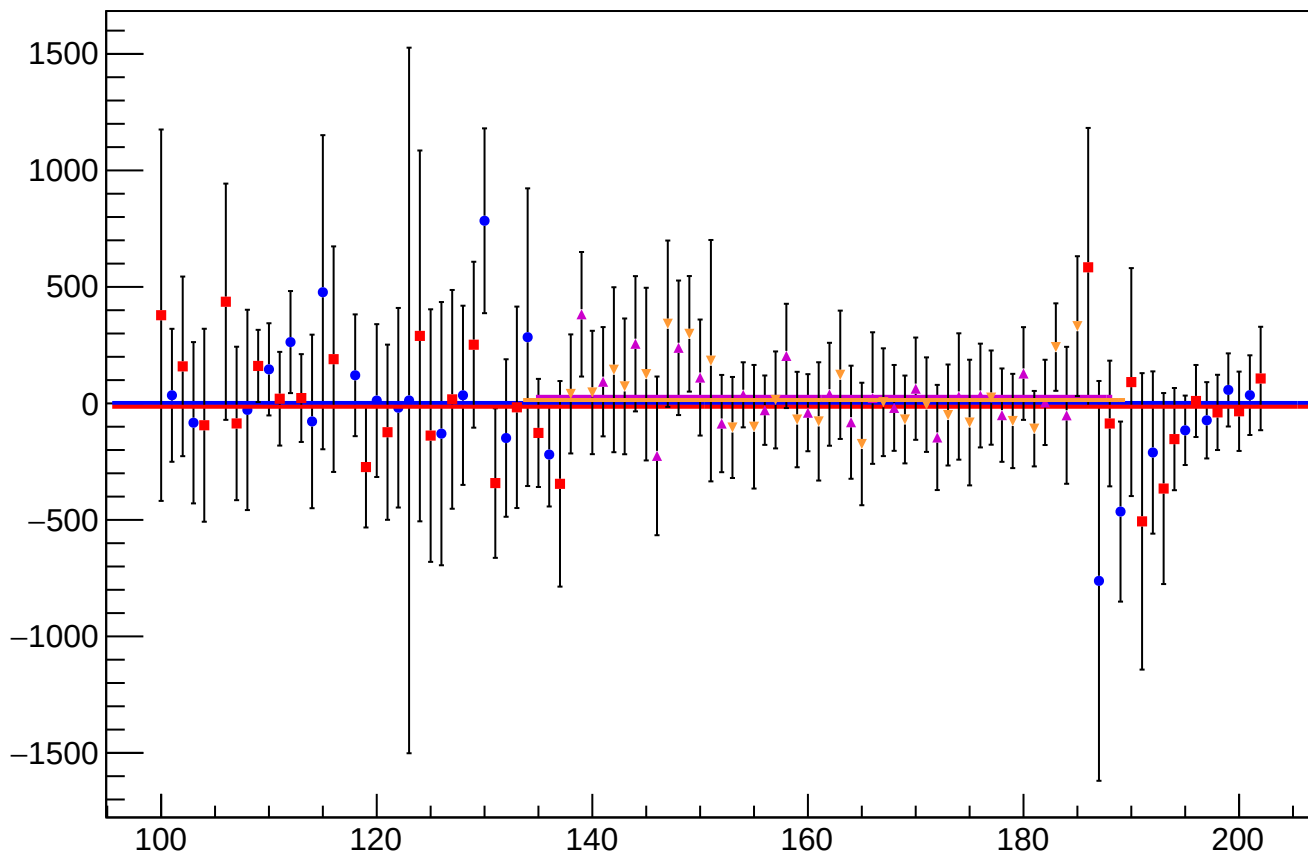
Right: 2083.721 $\pm$ 0.302 χ^2 /NDF: 1622561.5/52

In: 2330.371 $\pm$ 0.316 χ^2 /NDF: 2538503.2/46

Out: 2371.877 $\pm$ 0.302 χ^2 /NDF: 2011339.9/53

All: 2352.044 $\pm$ 0.218 χ^2 /NDF: 4558851.3/100

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 1.936 ± 54.827 $\chi^2/\text{NDF}: 11.7/23$

Left Out: 14.520 ± 47.528 $\chi^2/\text{NDF}: 7.8/24$

Right Out: -14.340 ± 50.698 $\chi^2/\text{NDF}: 9.7/28$

Left In: 28.310 ± 44.638 $\chi^2/\text{NDF}: 6.3/22$

Left: 21.847 ± 32.538 $\chi^2/\text{NDF}: 14.1/47$

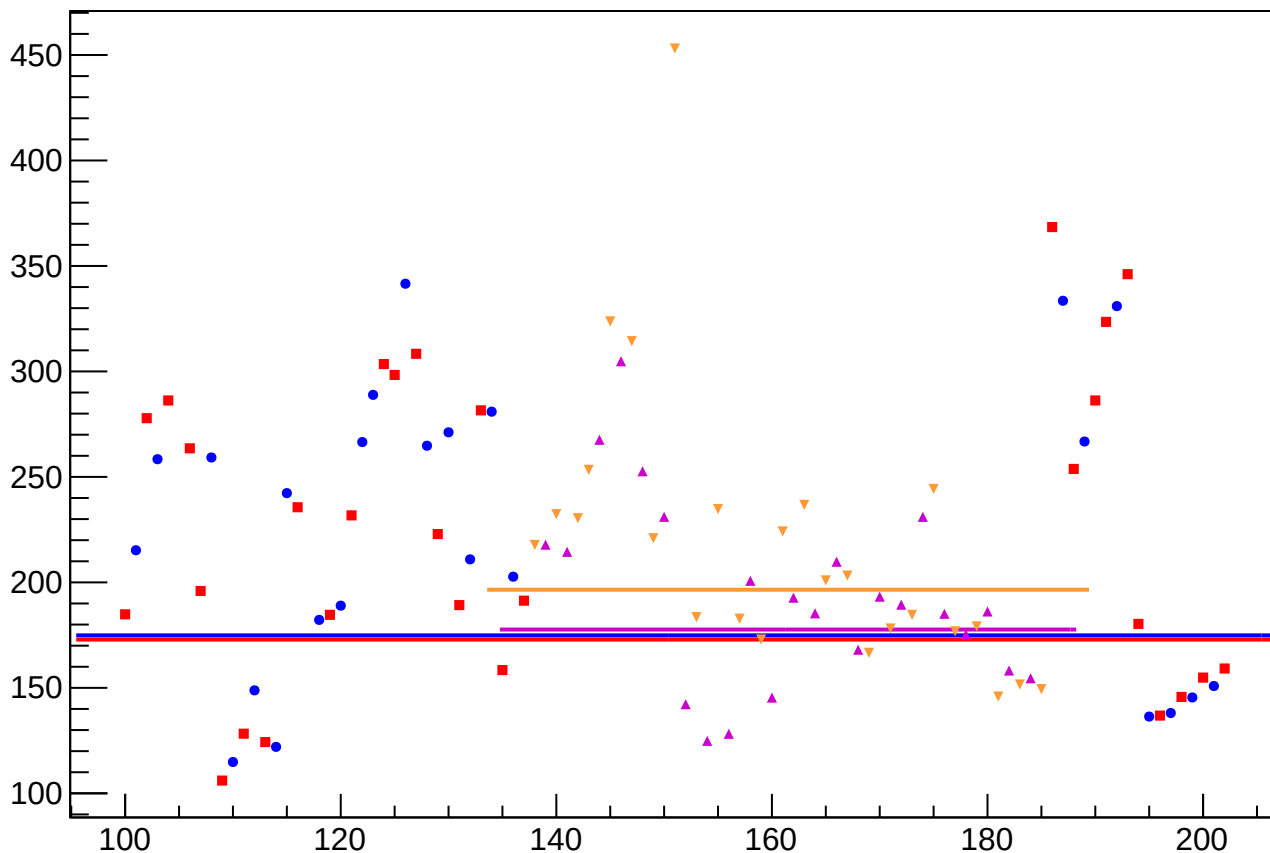
Right: -6.838 ± 37.223 $\chi^2/\text{NDF}: 21.5/52$

In: 17.796 ± 34.616 $\chi^2/\text{NDF}: 18.1/46$

Out: 1.020 ± 34.674 $\chi^2/\text{NDF}: 17.7/53$

All: 9.422 ± 24.498 $\chi^2/\text{NDF}: 36.0/100$

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 174.887 $\pm$ 0.039 χ^2 /NDF: 2051900.4/23

Left Out: 196.514 $\pm$ 0.034 χ^2 /NDF:1789504.4/24

Right Out: 172.900 $\pm$ 0.036 χ^2 /NDF: 2739775.8/28

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

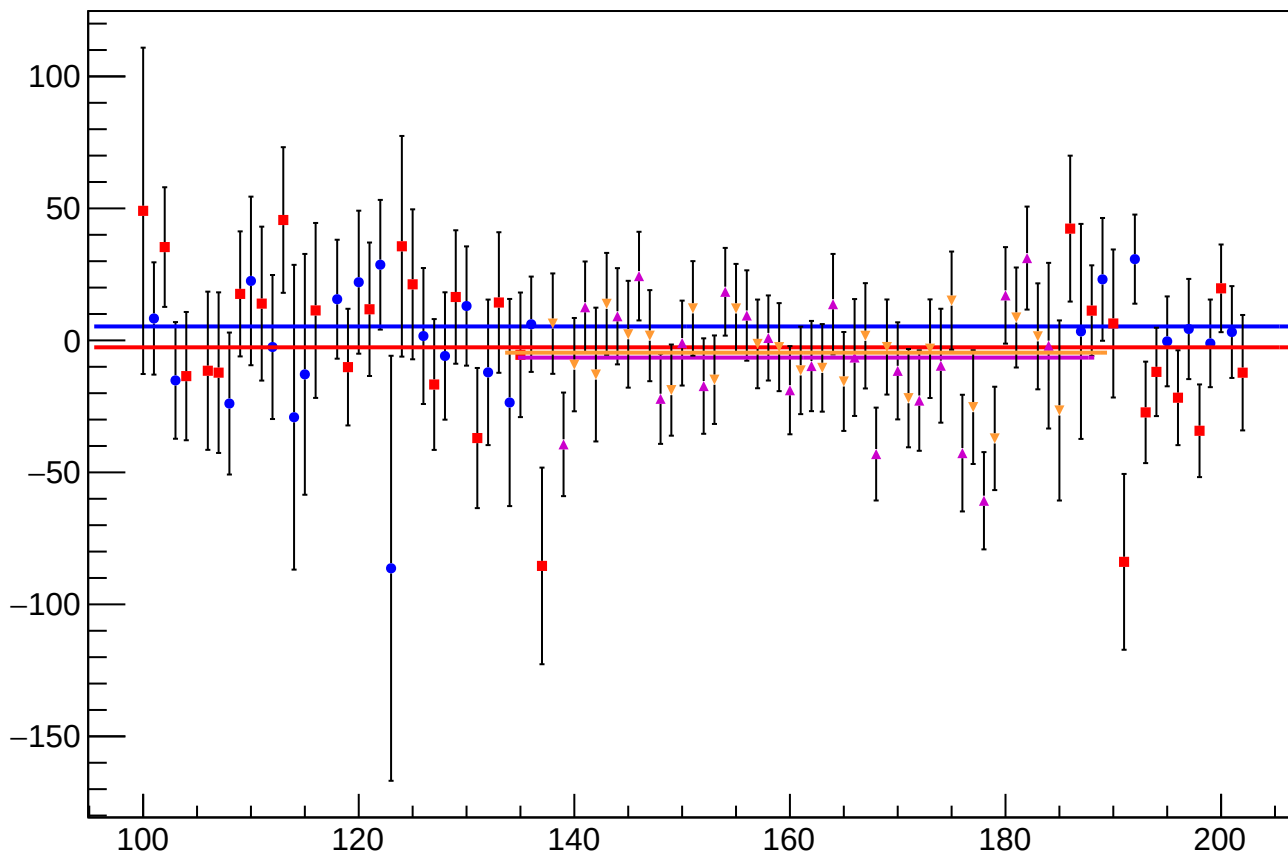
Right: 173.816 $\pm$ 0.026 χ^2 /NDF: 4793090.9/52

In: 176.544 $\pm$ 0.024 χ^2 /NDF:3685605.3/46

Out: 185.469 $\pm$ 0.025 χ^2 /NDF:4760207.9/53

All: 180.999 $\pm$ 0.017 χ^2 /NDF: 8512164.3/100

asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 5.282 ± 4.809 $\chi^2/\text{NDF}: 10.2/23$

Left Out: -4.646 ± 3.728 $\chi^2/\text{NDF}: 12.1/24$

Right Out: -2.626 ± 4.452 $\chi^2/\text{NDF}: 35.8/28$

Left In: -6.526 ± 3.828 $\chi^2/\text{NDF}: 36.4/22$

Left: -5.561 ± 2.670 $\chi^2/\text{NDF}: 48.6/47$

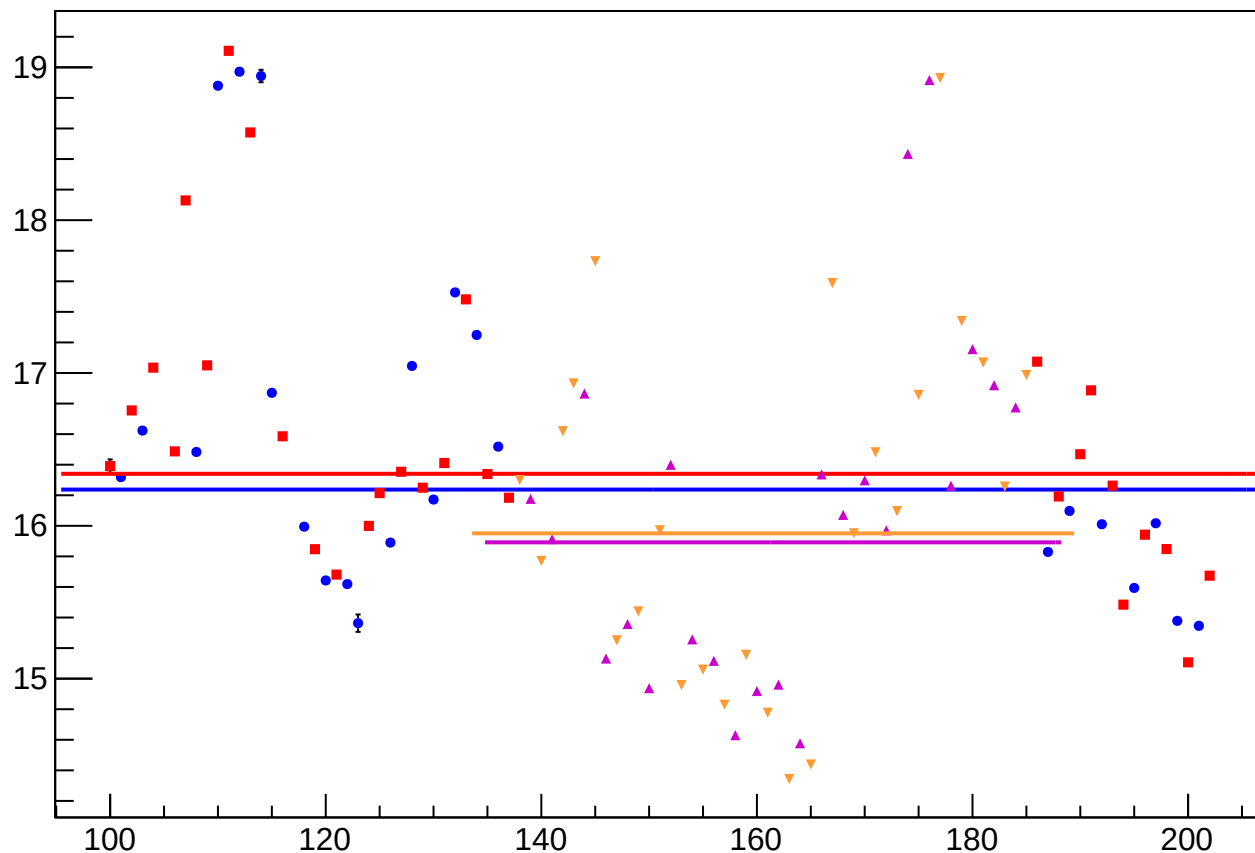
Right: 1.023 ± 3.267 $\chi^2/\text{NDF}: 47.4/52$

In: -1.947 ± 2.995 $\chi^2/\text{NDF}: 50.3/46$

Out: -3.813 ± 2.858 $\chi^2/\text{NDF}: 48.0/53$

All: -2.924 ± 2.068 $\chi^2/\text{NDF}: 98.4/100$

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 16.237 $\pm$ 0.003 χ^2/NDF : 65272.7/23

Left Out: 15.951 $\pm$ 0.003 χ^2/NDF : 173458.5/24

Right Out: 16.340 $\pm$ 0.003 χ^2/NDF : 71452.7/28

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

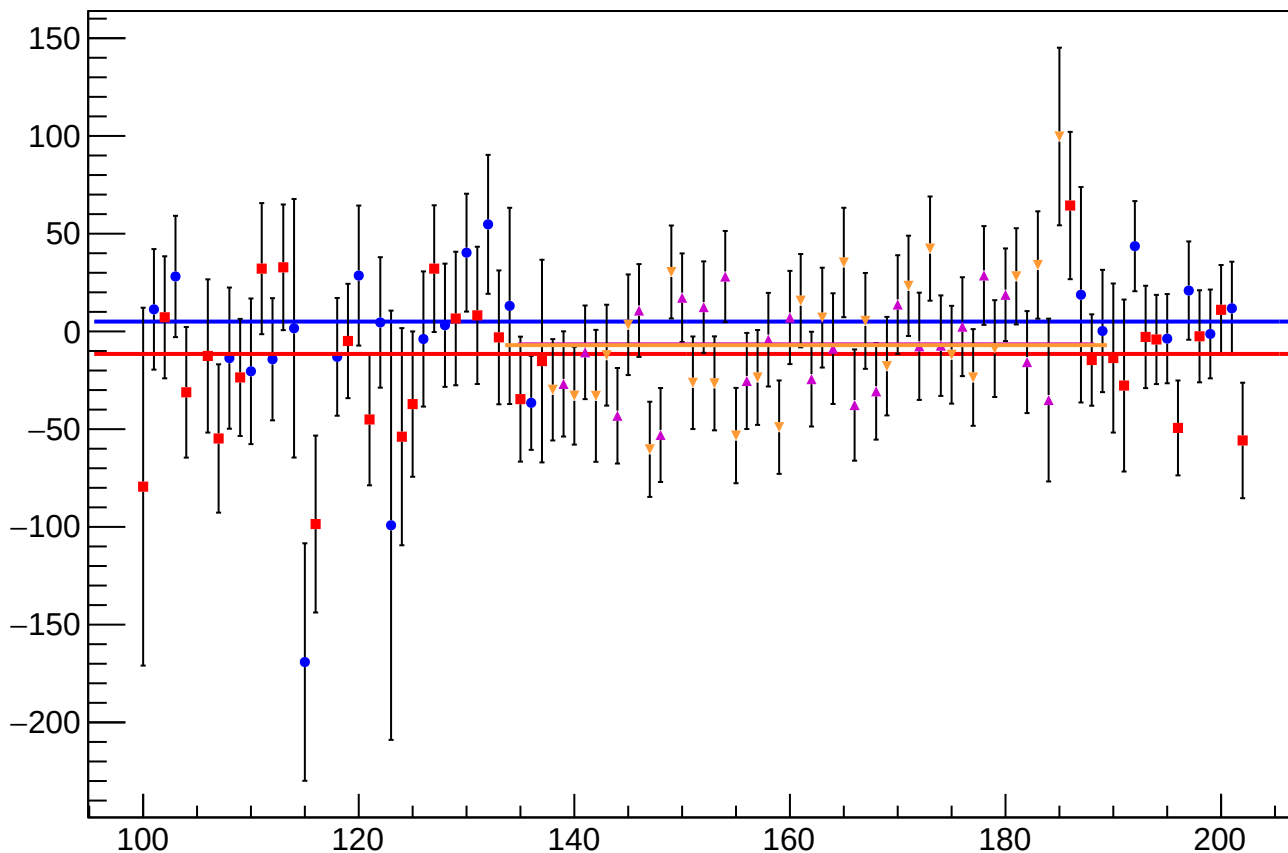
Right: 16.293 $\pm$ 0.002 χ^2/NDF : 137220.6/52

In: 16.026 $\pm$ 0.002 χ^2/NDF : 218681.2/46

Out: 16.111 $\pm$ 0.002 χ^2/NDF : 253918.5/53

All: 16.071 $\pm$ 0.001 χ^2/NDF : 473453.4/100

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 5.037 ± 6.421 χ^2/NDF : 21.6/23

Left Out: -7.017 ± 5.121 χ^2/NDF : 37.4/24

Right Out: -11.516 ± 5.930 χ^2/NDF : 25.3/28

Left In: -6.611 ± 5.251 χ^2/NDF : 19.1/22

Left: -6.820 ± 3.666 χ^2/NDF : 56.6/47

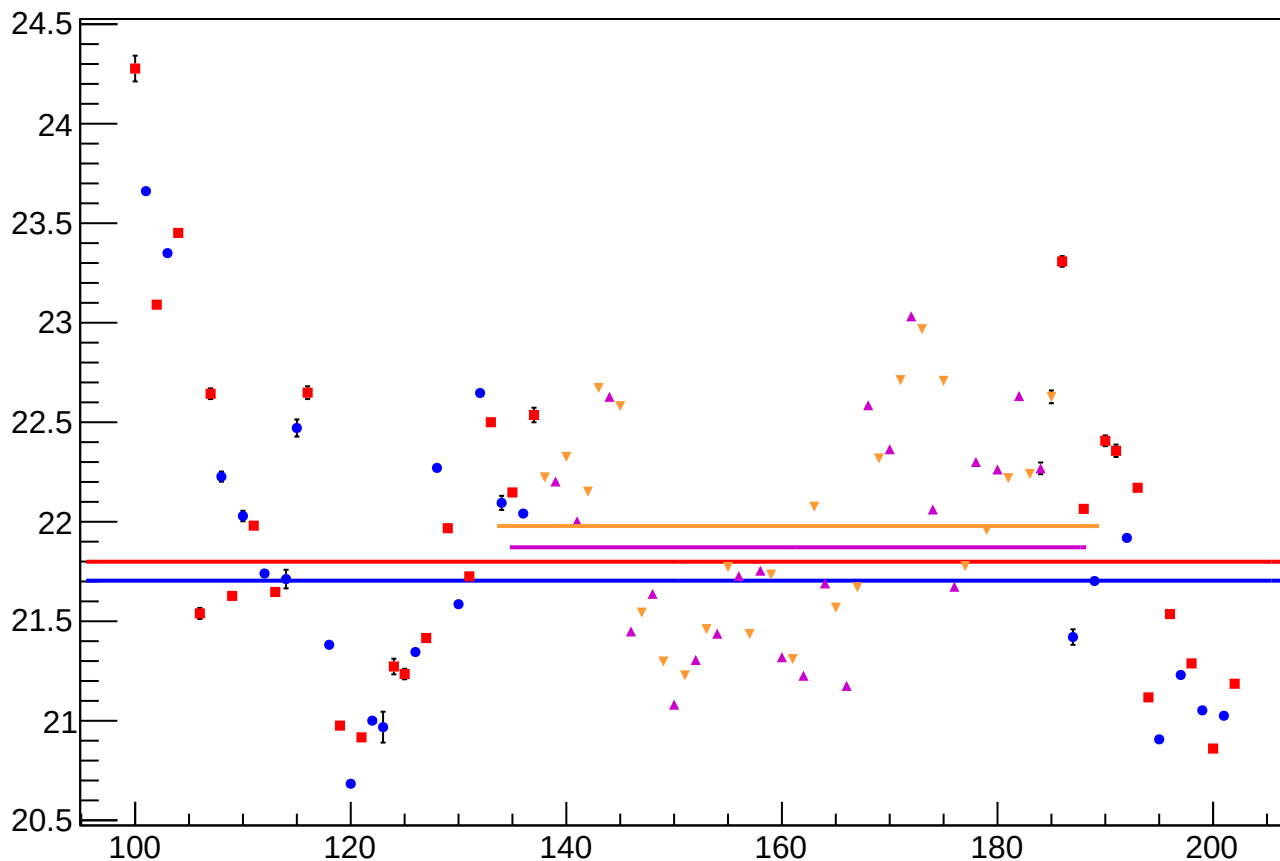
Right: -3.896 ± 4.356 χ^2/NDF : 50.5/52

In: -1.943 ± 4.065 χ^2/NDF : 42.7/46

Out: -8.939 ± 3.876 χ^2/NDF : 63.1/53

All: -5.607 ± 2.805 χ^2/NDF : 107.4/100

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 21.704+/-0.005 χ^2/NDF : 26868.1/23

Left Out: 21.978+/-0.004 χ^2/NDF : 19430.2/24

Right Out: 21.799+/-0.004 χ^2/NDF : 29014.9/28

Left In: 21.872+/-0.004 χ^2/NDF : 20524.9/22

Left: 21.926+/-0.003 χ^2/NDF : 40377.5/47

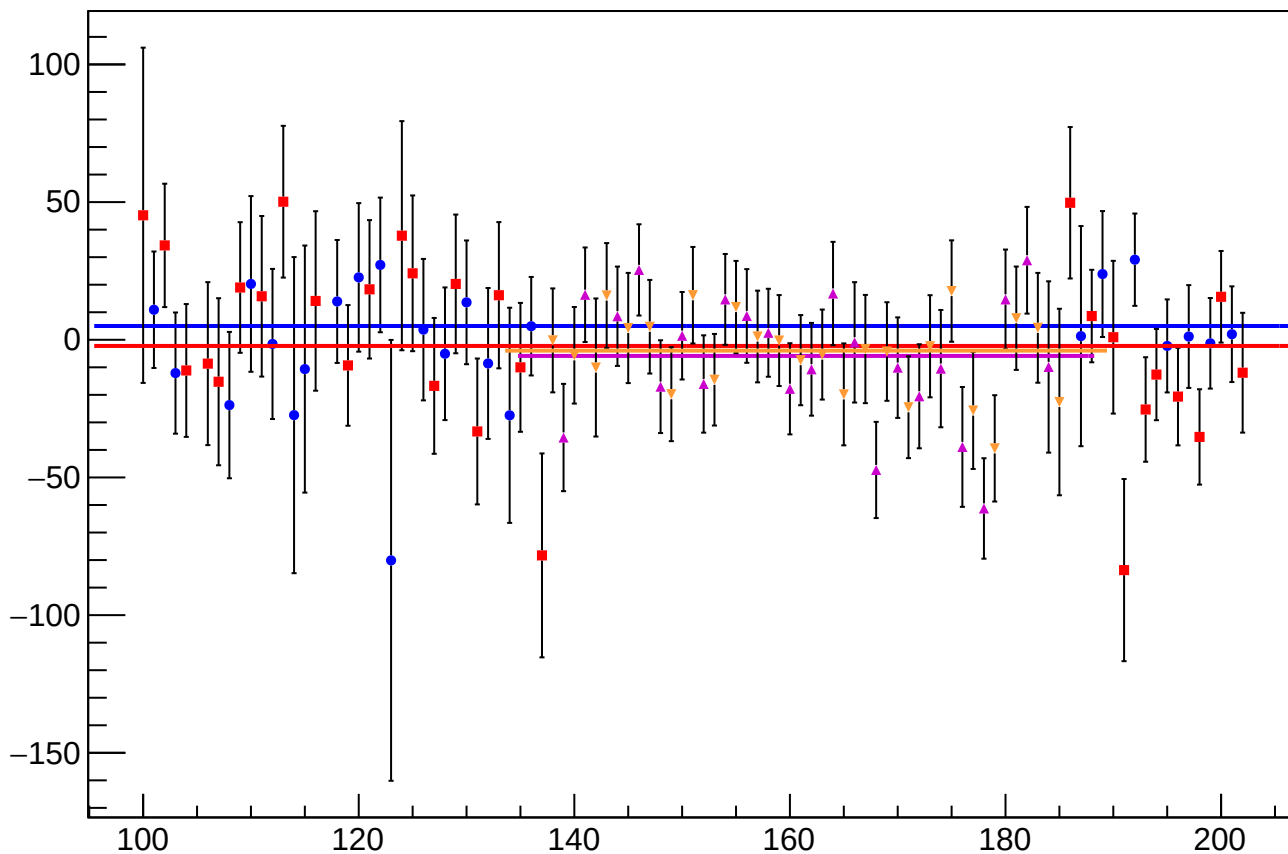
Right: 21.755+/-0.003 χ^2/NDF : 56120.4/52

In: 21.805+/-0.003 χ^2/NDF : 48211.5/46

Out: 21.902+/-0.003 χ^2/NDF : 49490.9/53

All: 21.856+/-0.002 χ^2/NDF : 98302.8/100

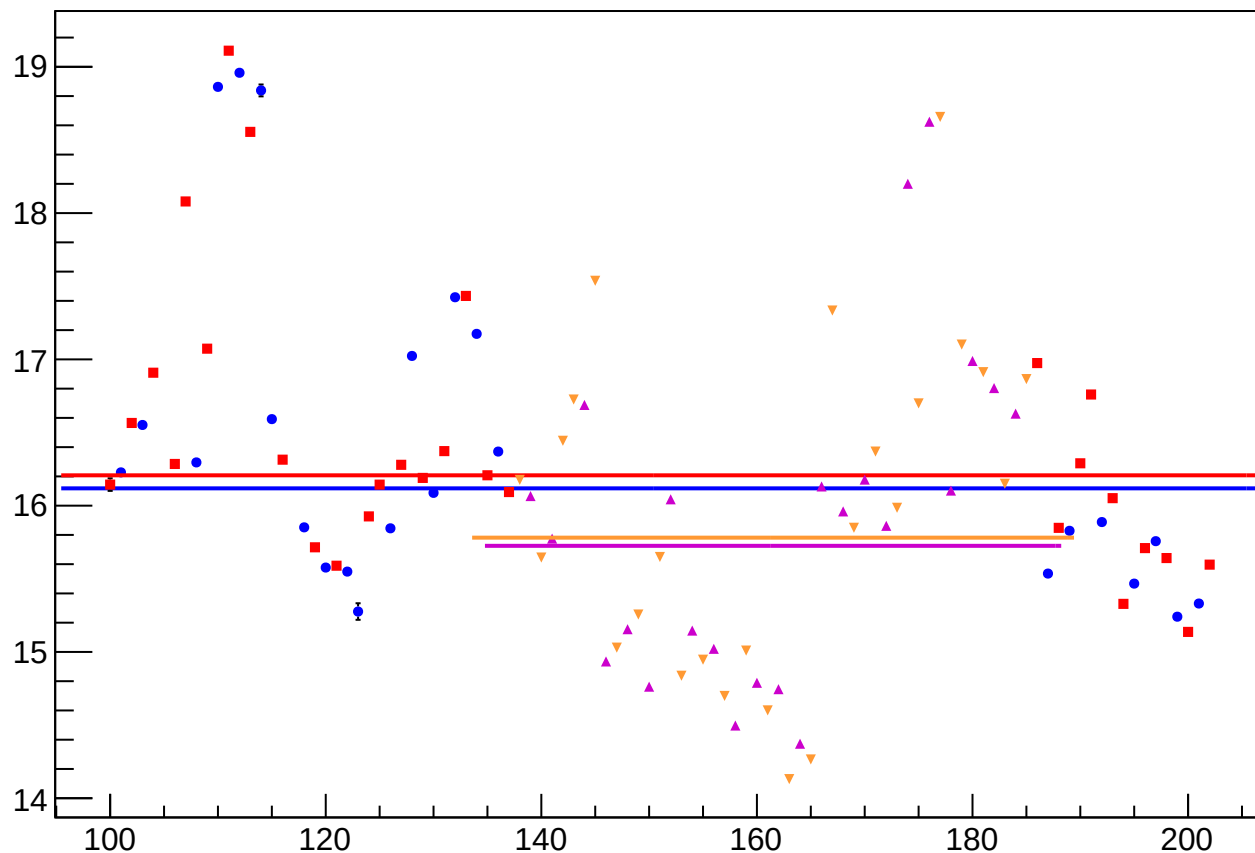
asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 5.003 ± 4.775 $\chi^2/\text{NDF}: 9.5/23$
 Left Out: -3.927 ± 3.688 $\chi^2/\text{NDF}: 14.0/24$
 Right Out: -2.237 ± 4.416 $\chi^2/\text{NDF}: 36.6/28$
 Left In: -5.861 ± 3.787 $\chi^2/\text{NDF}: 36.2/22$

Left: -4.869 ± 2.642 $\chi^2/\text{NDF}: 50.3/47$
 Right: 1.101 ± 3.242 $\chi^2/\text{NDF}: 47.4/52$
 In: -1.666 ± 2.967 $\chi^2/\text{NDF}: 48.9/46$
 Out: -3.233 ± 2.831 $\chi^2/\text{NDF}: 50.6/53$
 All: -2.486 ± 2.048 $\chi^2/\text{NDF}: 99.7/100$

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 16.118 $\pm$ 0.003 χ^2 /NDF: 68650.4/23

Left Out: 15.781 $\pm$ 0.003 χ^2 /NDF: 172894.3/24

Right Out: 16.207 $\pm$ 0.003 χ^2 /NDF: 75932.4/28

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

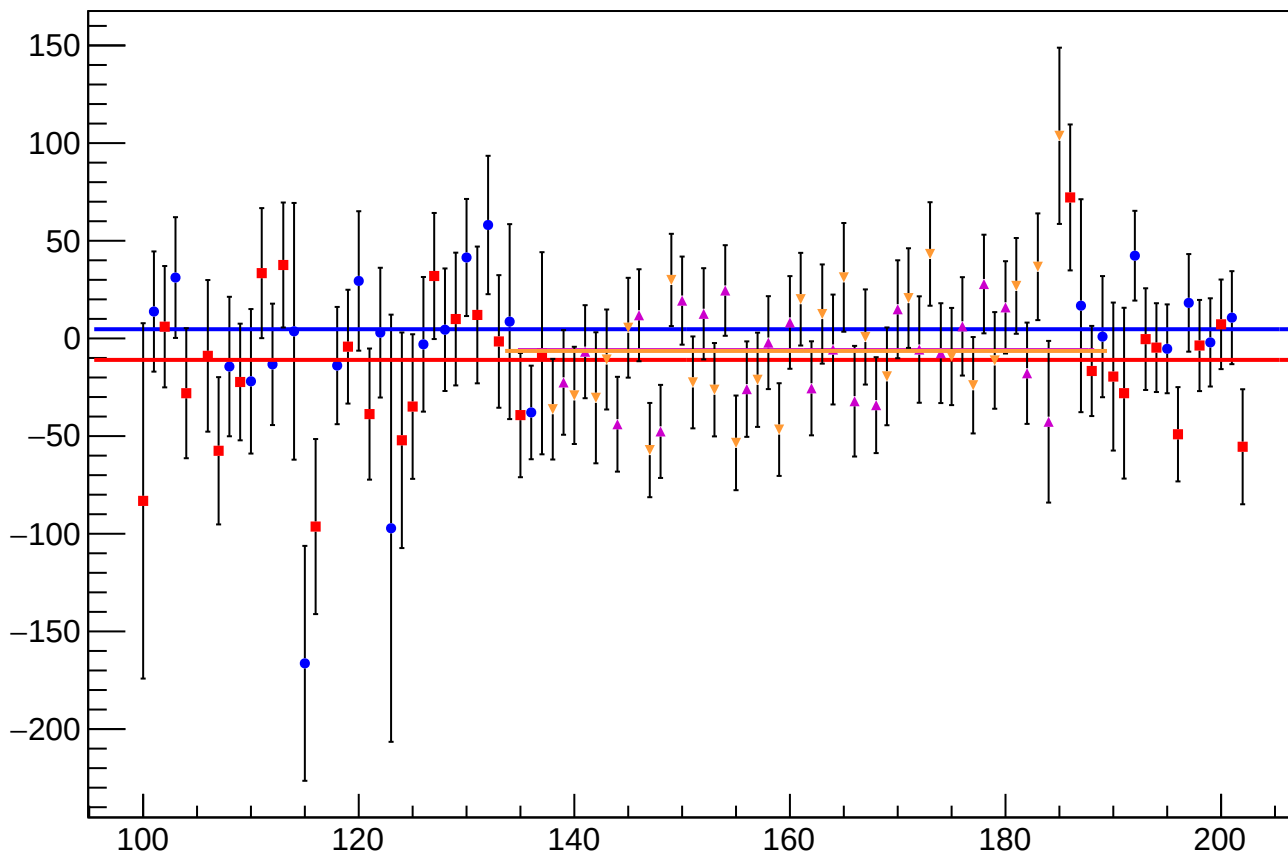
Right: 16.166 $\pm$ 0.002 χ^2 /NDF: 144958.3/52

In: 15.877 $\pm$ 0.002 χ^2 /NDF: 222794.6/46

Out: 15.956 $\pm$ 0.002 χ^2 /NDF: 259797.5/53

All: 15.919 $\pm$ 0.001 χ^2 /NDF: 483339.2/100

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 4.716 ± 6.390 $\chi^2/\text{NDF}: 22.2/23$

Left Out: -6.404 ± 5.091 $\chi^2/\text{NDF}: 37.4/24$

Right Out: -10.989 ± 5.897 $\chi^2/\text{NDF}: 26.7/28$

Left In: -5.978 ± 5.222 $\chi^2/\text{NDF}: 18.5/22$

Left: -6.196 ± 3.646 $\chi^2/\text{NDF}: 55.9/47$

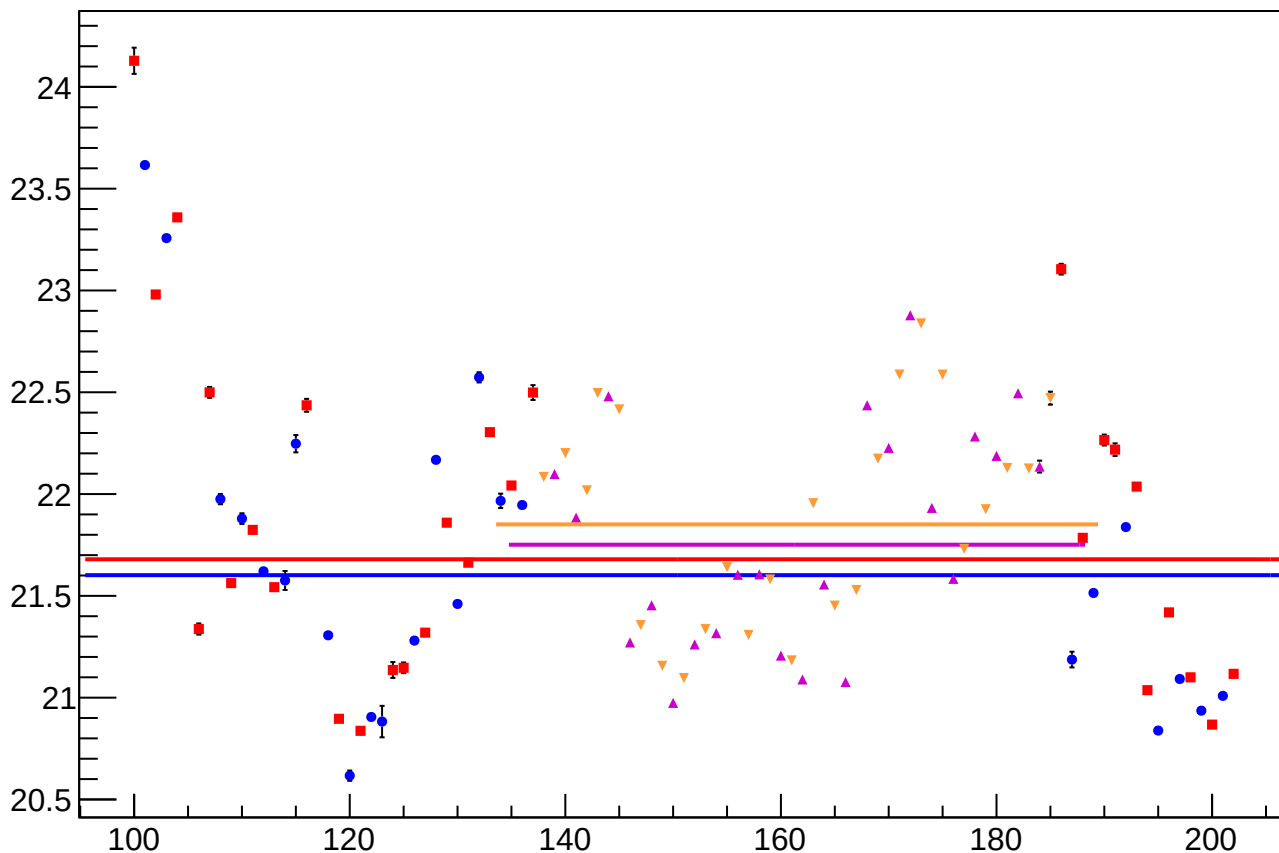
Right: -3.765 ± 4.334 $\chi^2/\text{NDF}: 52.1/52$

In: -1.695 ± 4.044 $\chi^2/\text{NDF}: 42.4/46$

Out: -8.362 ± 3.854 $\chi^2/\text{NDF}: 64.4/53$

All: -5.189 ± 2.790 $\chi^2/\text{NDF}: 108.2/100$

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 21.602 $\pm$ 0.005 χ^2 /NDF: 26852.6/23

Left Out: 21.851 $\pm$ 0.004 χ^2 /NDF:19631.8/24

Right Out: 21.680 $\pm$ 0.004 χ^2 /NDF: 27293.1/28

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

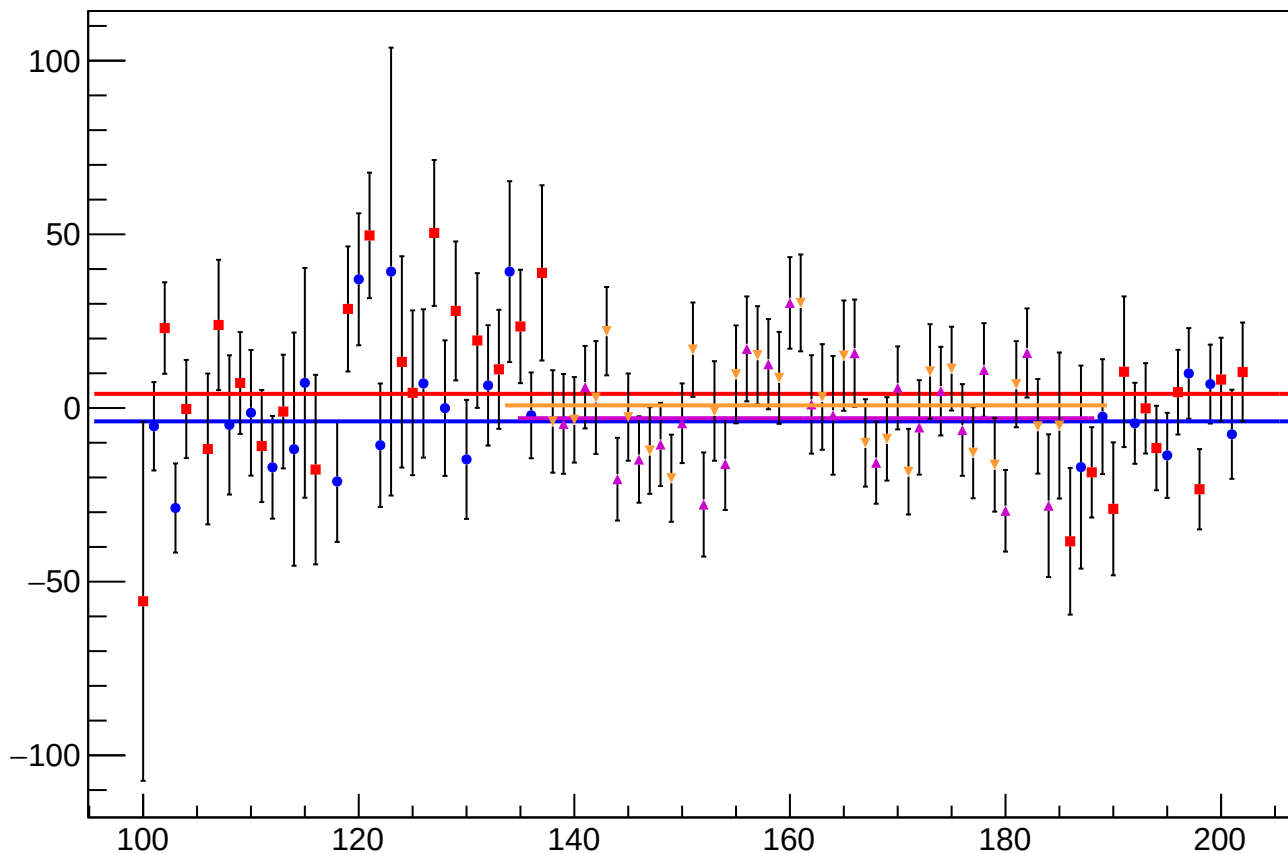
Right: 21.644 $\pm$ 0.003 χ^2 /NDF: 54306.9/52

In: 21.691 $\pm$ 0.003 χ^2 /NDF:48026.1/46

Out: 21.778 $\pm$ 0.003 χ^2 /NDF:47893.5/53

All: 21.737 $\pm$ 0.002 χ^2 /NDF: 96400.4/100

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -3.848 ± 3.301 χ^2/NDF : 17.8/23

Left Out: 0.759 ± 2.698 χ^2/NDF : 23.8/24

Right Out: 4.075 ± 3.063 χ^2/NDF : 43.4/28

Left In: -2.944 ± 2.757 χ^2/NDF : 30.9/22

Left: -1.053 ± 1.929 χ^2/NDF : 55.7/47

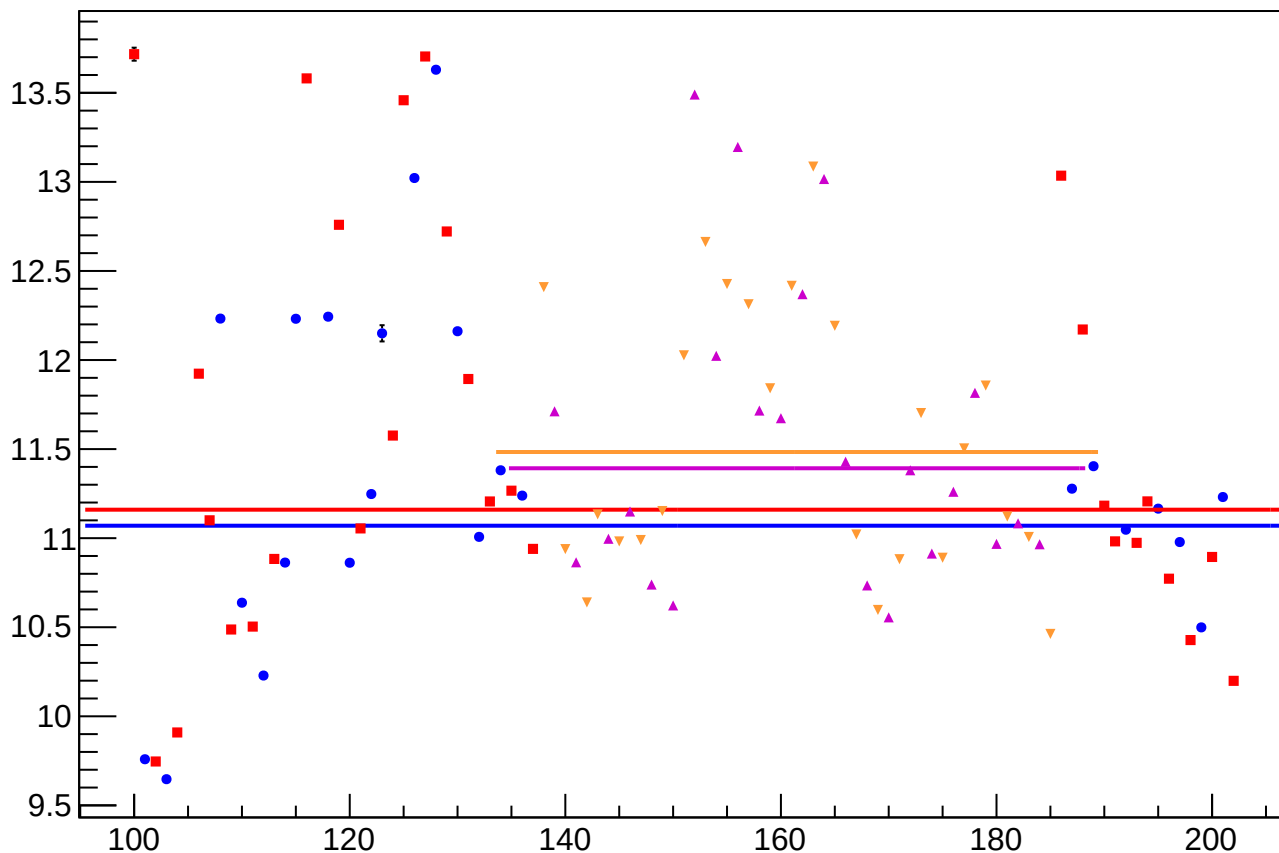
Right: 0.408 ± 2.245 χ^2/NDF : 64.2/52

In: -3.316 ± 2.116 χ^2/NDF : 48.8/46

Out: 2.208 ± 2.025 χ^2/NDF : 67.8/53

All: -0.432 ± 1.463 χ^2/NDF : 120.1/100

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 11.070 $\pm$ 0.002 χ^2 /NDF: 139260.6/23

Left Out: 11.484 $\pm$ 0.002 χ^2 /NDF:129805.4/24

Right Out: 11.160 $\pm$ 0.002 χ^2 /NDF: 198137.4/28

Left In: 11.392 $\pm$ 0.002 χ^2 /NDF:150493.3/22

Left: 11.439 $\pm$ 0.001 χ^2 /NDF: 281419.2/47

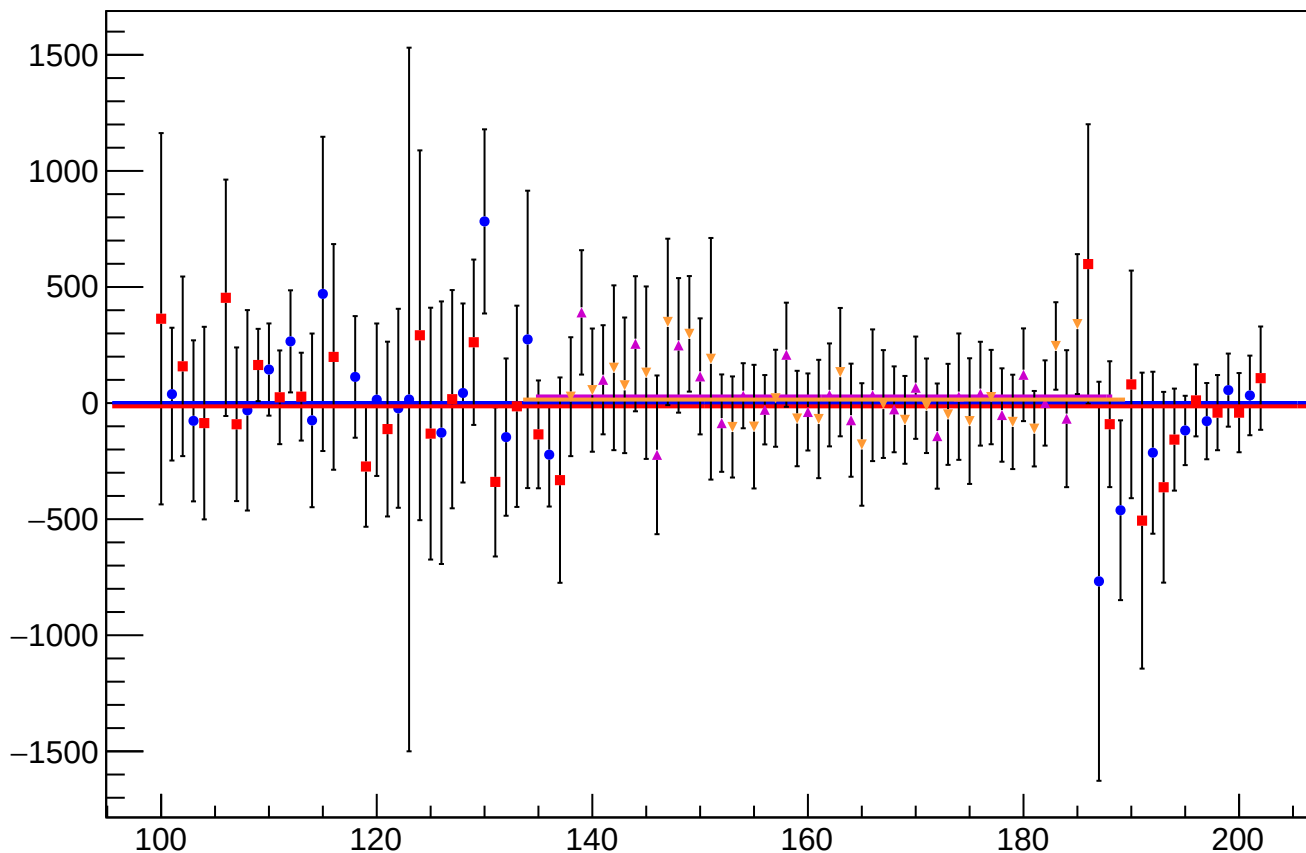
Right: 11.118 $\pm$ 0.002 χ^2 /NDF: 338196.2/52

In: 11.260 $\pm$ 0.001 χ^2 /NDF:300997.6/46

Out: 11.342 $\pm$ 0.001 χ^2 /NDF:340528.0/53

All: 11.303 $\pm$ 0.001 χ^2 /NDF: 643108.7/100

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs Slug, Sign Corrected



Right In: 0.368 ± 54.969 $\chi^2/\text{NDF}: 11.7/23$

Left Out: 15.130 ± 47.705 $\chi^2/\text{NDF}: 8.0/24$

Right Out: -14.085 ± 50.837 $\chi^2/\text{NDF}: 9.9/28$

Left In: 28.500 ± 44.797 $\chi^2/\text{NDF}: 6.4/22$

Left: 22.235 ± 32.656 $\chi^2/\text{NDF}: 14.4/47$

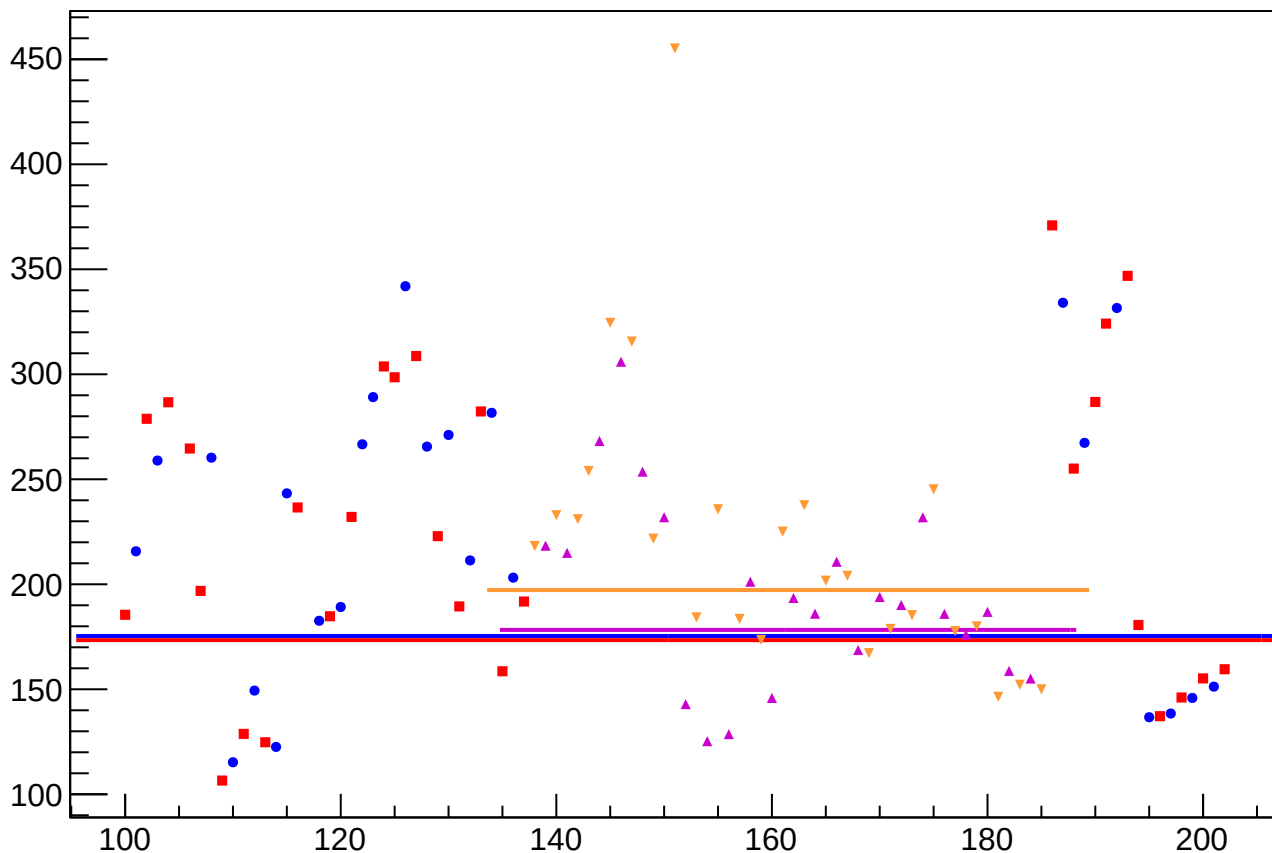
Right: -7.422 ± 37.323 $\chi^2/\text{NDF}: 21.6/52$

In: 17.273 ± 34.726 $\chi^2/\text{NDF}: 18.2/46$

Out: 1.450 ± 34.787 $\chi^2/\text{NDF}: 18.1/53$

All: 9.376 ± 24.576 $\chi^2/\text{NDF}: 36.4/100$

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs Slug, Sign Corrected



Right In: 175.361 $\pm$ 0.039 χ^2 /NDF: 2046576.0/23

Left Out: 197.249 $\pm$ 0.034 χ^2 /NDF:1786808.1/24

Right Out: 173.391 $\pm$ 0.036 χ^2 /NDF: 2735726.7/28

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

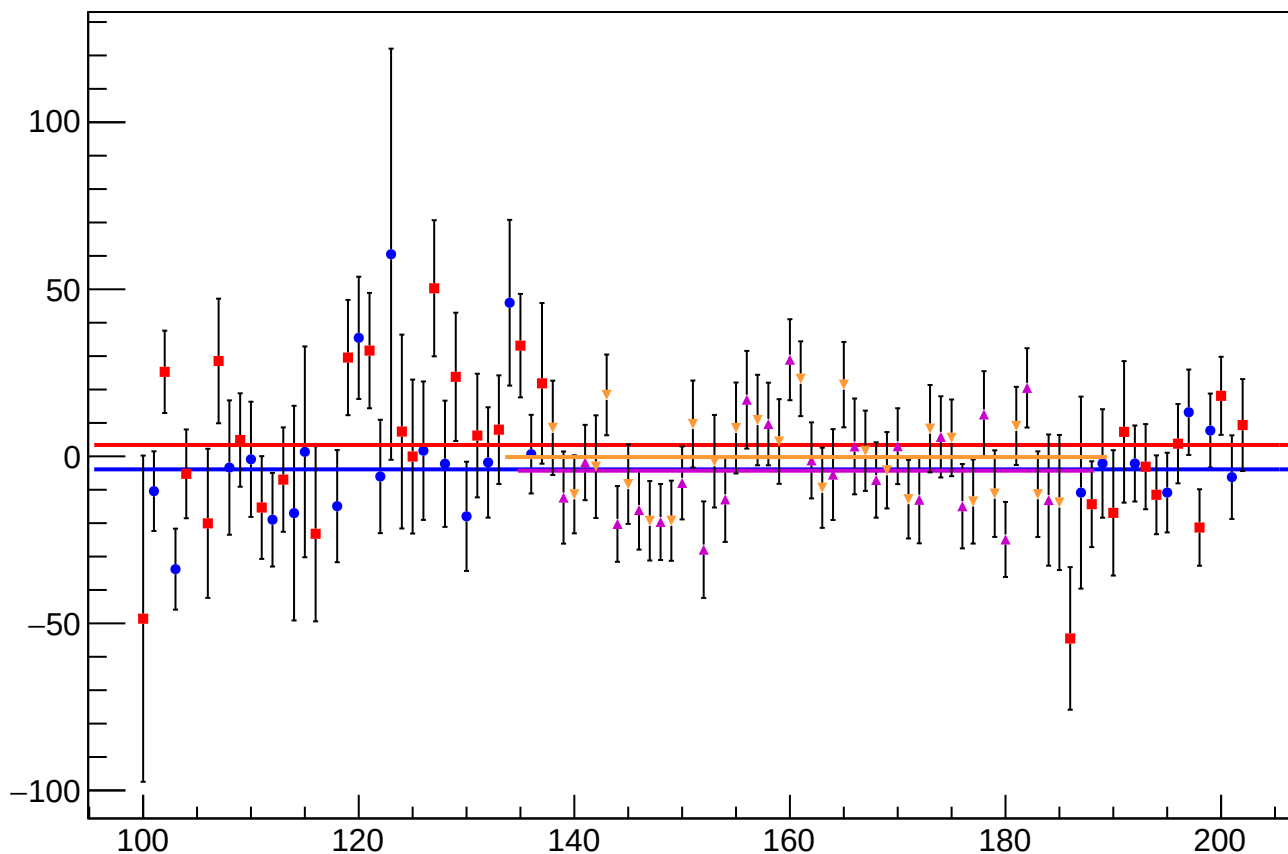
Right: 174.299 $\pm$ 0.026 χ^2 /NDF: 4783687.2/52

In: 177.113 $\pm$ 0.025 χ^2 /NDF:3678875.2/46

Out: 186.078 $\pm$ 0.025 χ^2 /NDF:4756777.1/53

All: 181.587 $\pm$ 0.017 χ^2 /NDF: 8502177.4/100

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs Slug, Sign Corrected



Right In: -3.898 ± 3.181 $\chi^2/\text{NDF}: 22.3/23$

Left Out: -0.211 ± 2.523 $\chi^2/\text{NDF}: 24.5/24$

Right Out: 3.395 ± 2.963 $\chi^2/\text{NDF}: 45.2/28$

Left In: -4.298 ± 2.589 $\chi^2/\text{NDF}: 31.6/22$

Left: -2.202 ± 1.807 $\chi^2/\text{NDF}: 57.4/47$

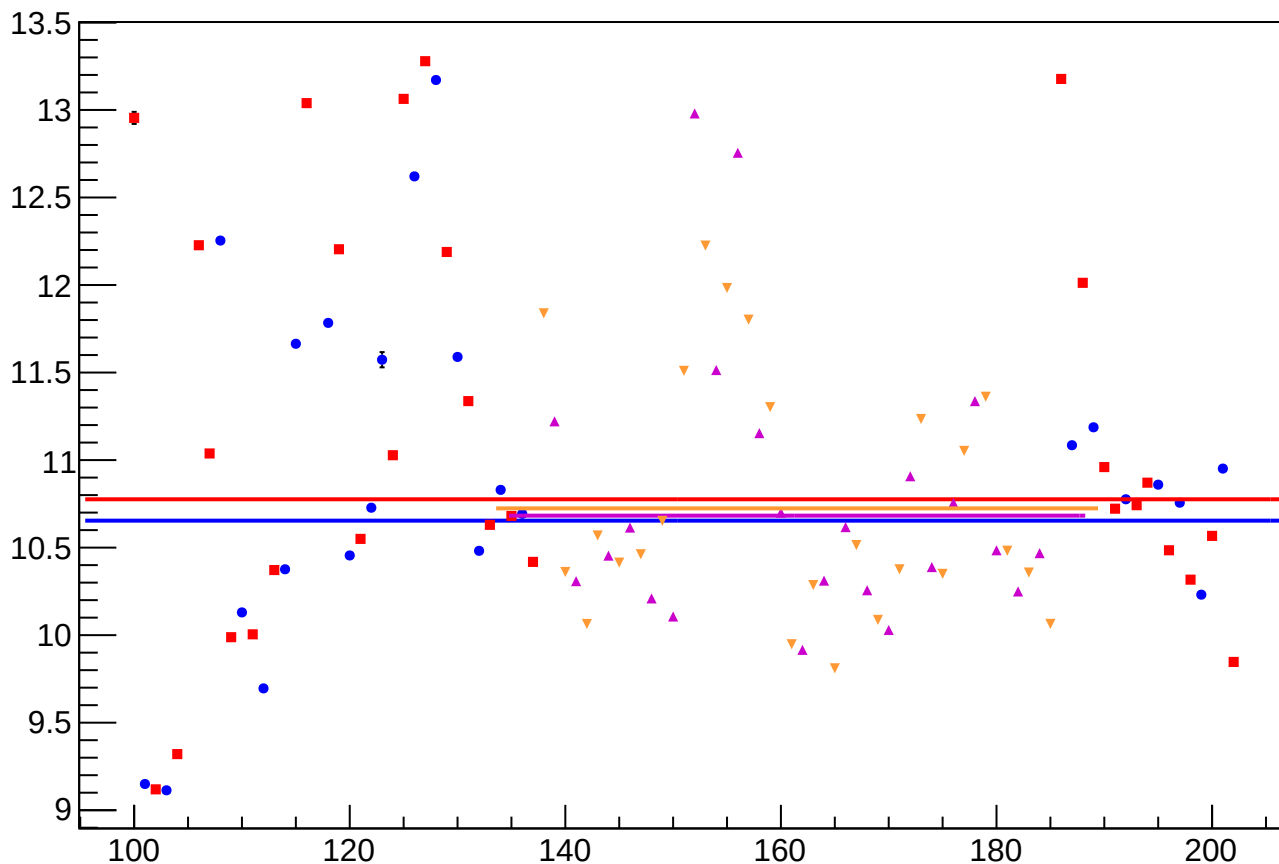
Right: 0.008 ± 2.168 $\chi^2/\text{NDF}: 70.3/52$

In: -4.138 ± 2.008 $\chi^2/\text{NDF}: 53.9/46$

Out: 1.305 ± 1.921 $\chi^2/\text{NDF}: 70.6/53$

All: -1.296 ± 1.388 $\chi^2/\text{NDF}: 128.3/100$

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs Slug, Sign Corrected



Right In: 10.654 $\pm$ 0.002 χ^2 /NDF: 167969.7/23

Left Out: 10.724 $\pm$ 0.002 χ^2 /NDF:132558.9/24

Right Out: 10.776 $\pm$ 0.002 χ^2 /NDF: 236365.9/28

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

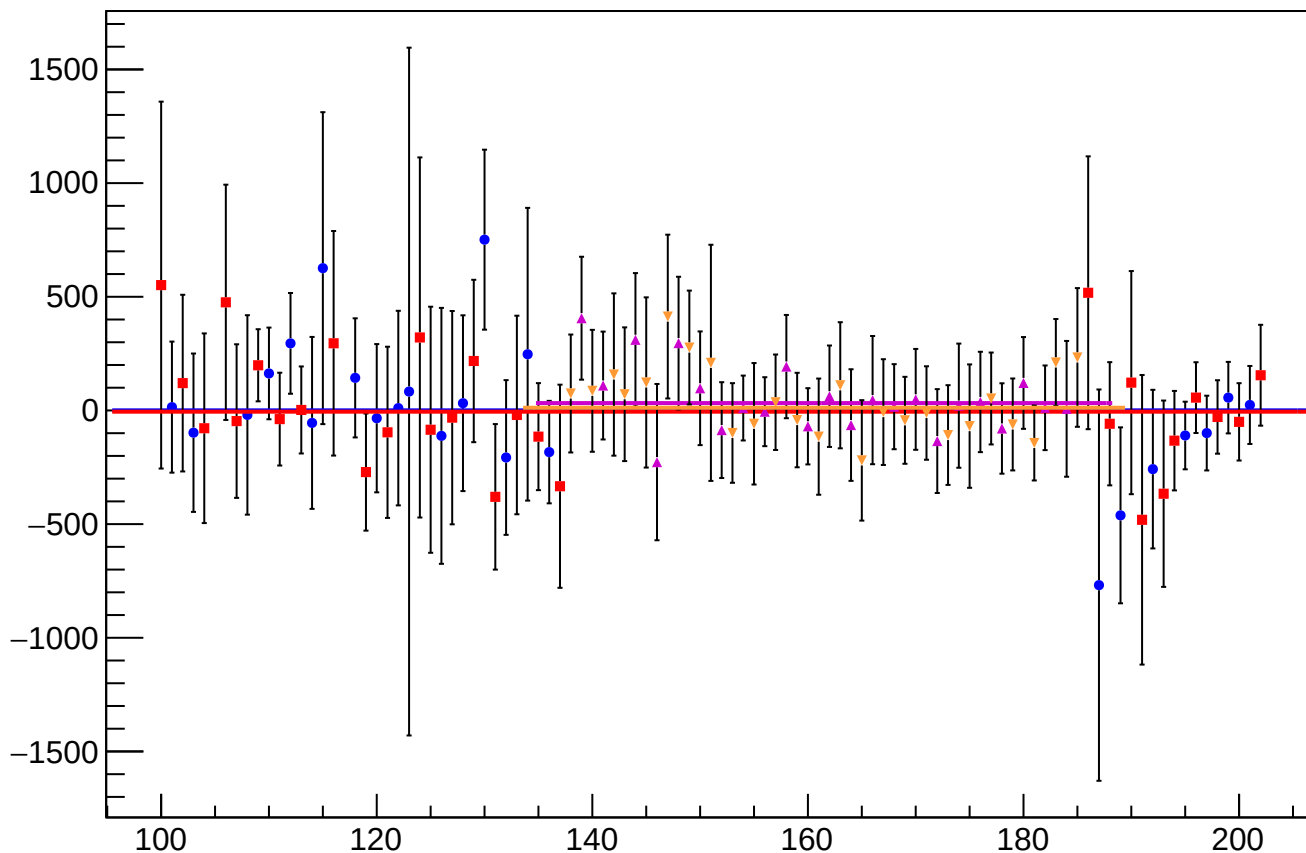
Right: 10.719 $\pm$ 0.002 χ^2 /NDF: 405911.6/52

In: 10.671 $\pm$ 0.001 χ^2 /NDF:315902.5/46

Out: 10.746 $\pm$ 0.001 χ^2 /NDF:369280.1/53

All: 10.710 $\pm$ 0.001 χ^2 /NDF: 686630.3/100

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 0.425 ± 55.112 $\chi^2/\text{NDF}: 12.3/23$

Left Out: 11.891 ± 48.022 $\chi^2/\text{NDF}: 7.6/24$

Right Out: -5.416 ± 51.067 $\chi^2/\text{NDF}: 10.7/28$

Left In: 32.413 ± 45.155 $\chi^2/\text{NDF}: 6.9/22$

Left: 22.783 ± 32.896 $\chi^2/\text{NDF}: 14.6/47$

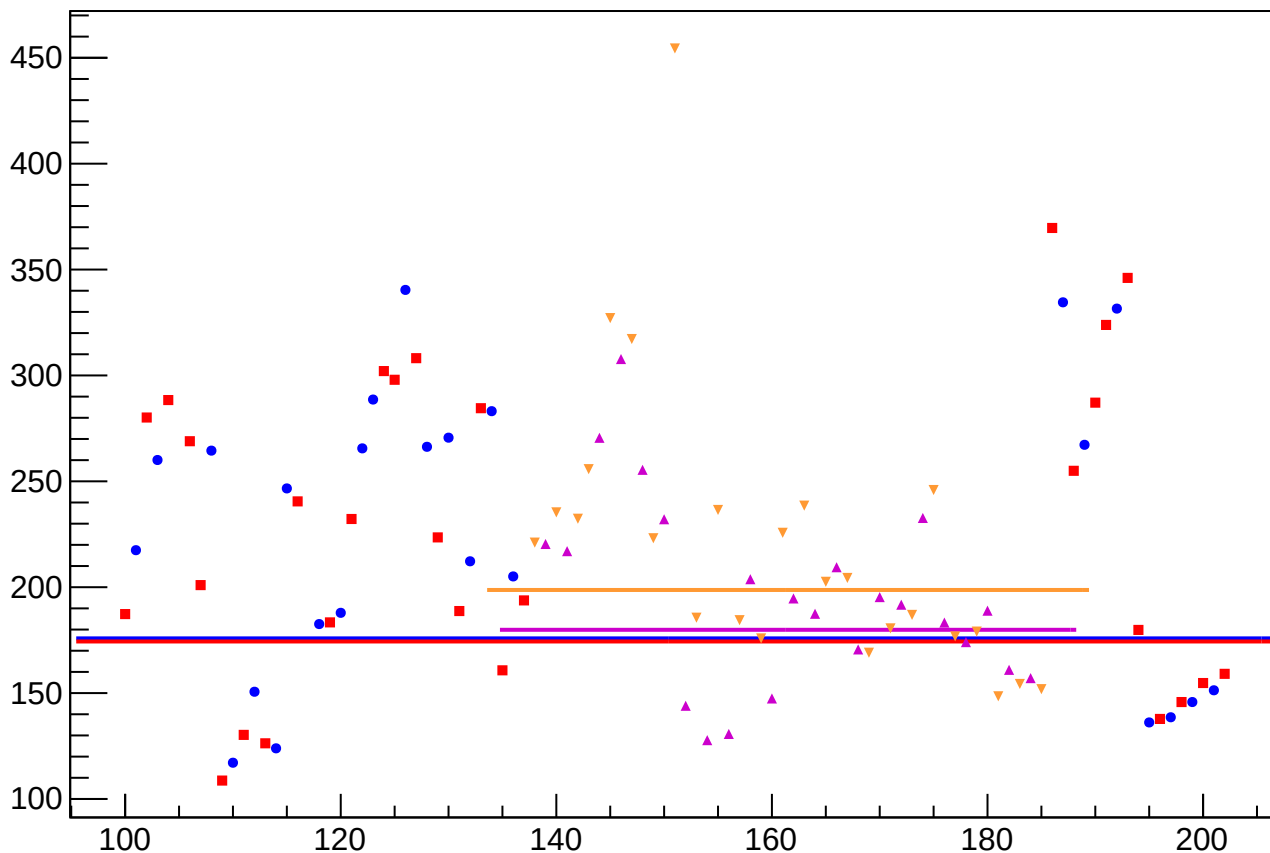
Right: -2.718 ± 37.458 $\chi^2/\text{NDF}: 23.0/52$

In: 19.565 ± 34.928 $\chi^2/\text{NDF}: 19.4/46$

Out: 3.769 ± 34.984 $\chi^2/\text{NDF}: 18.4/53$

All: 11.679 ± 24.718 $\chi^2/\text{NDF}: 37.9/100$

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 175.833 $\pm$ 0.039 χ^2 /NDF: 2042245.7/23

Left Out: 198.695 $\pm$ 0.034 χ^2 /NDF:1759311.9/24

Right Out: 174.373 $\pm$ 0.036 χ^2 /NDF: 2689766.2/28

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

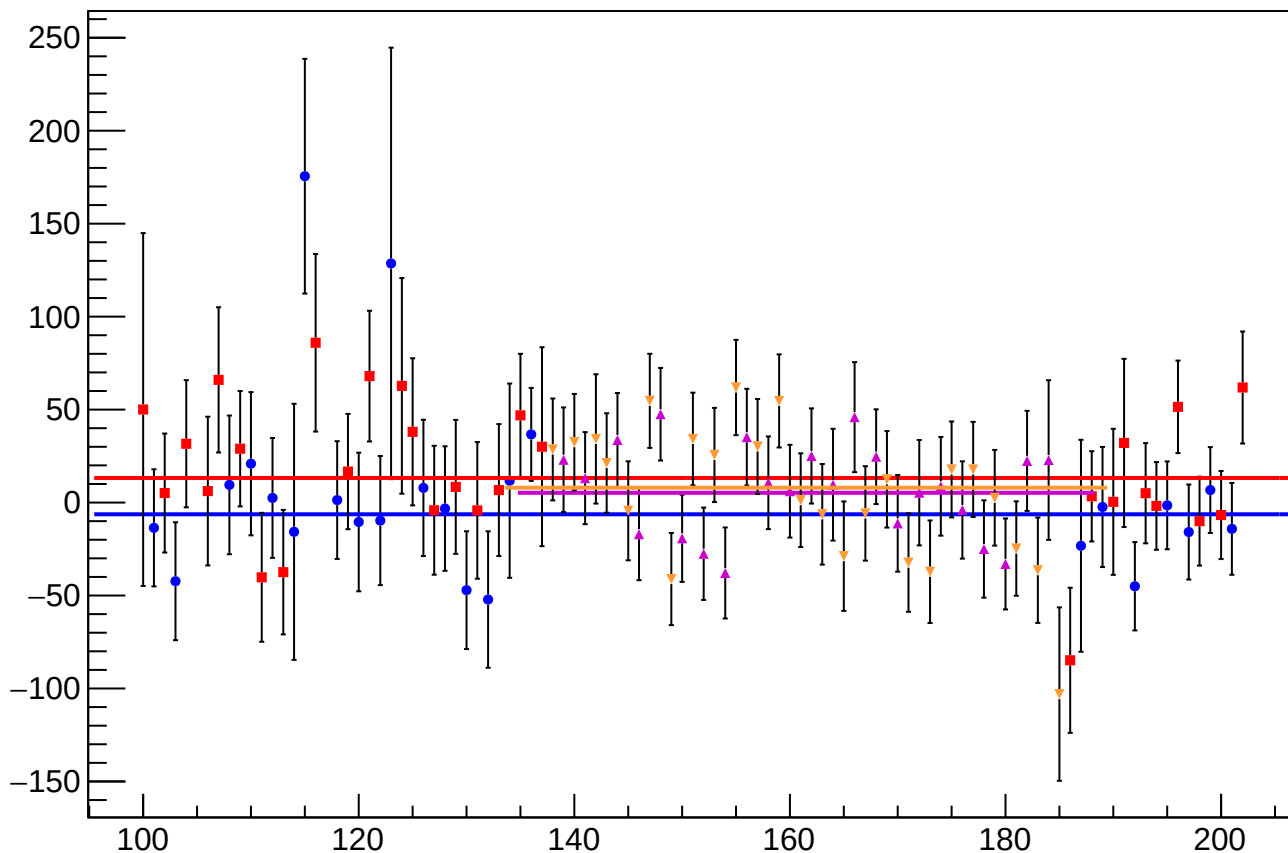
Right: 175.048 $\pm$ 0.026 χ^2 /NDF: 4732767.6/52

In: 178.258 $\pm$ 0.025 χ^2 /NDF:3629354.1/46

Out: 187.281 $\pm$ 0.025 χ^2 /NDF:4689845.8/53

All: 182.762 $\pm$ 0.017 χ^2 /NDF: 8385815.3/100

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -6.305 ± 6.643 $\chi^2/\text{NDF}: 21.7/23$

Left Out: 8.004 ± 5.334 $\chi^2/\text{NDF}: 37.4/24$

Right Out: 13.236 ± 6.140 $\chi^2/\text{NDF}: 28.7/28$

Left In: 5.261 ± 5.465 $\chi^2/\text{NDF}: 20.8/22$

Left: 6.665 ± 3.817 $\chi^2/\text{NDF}: 58.3/47$

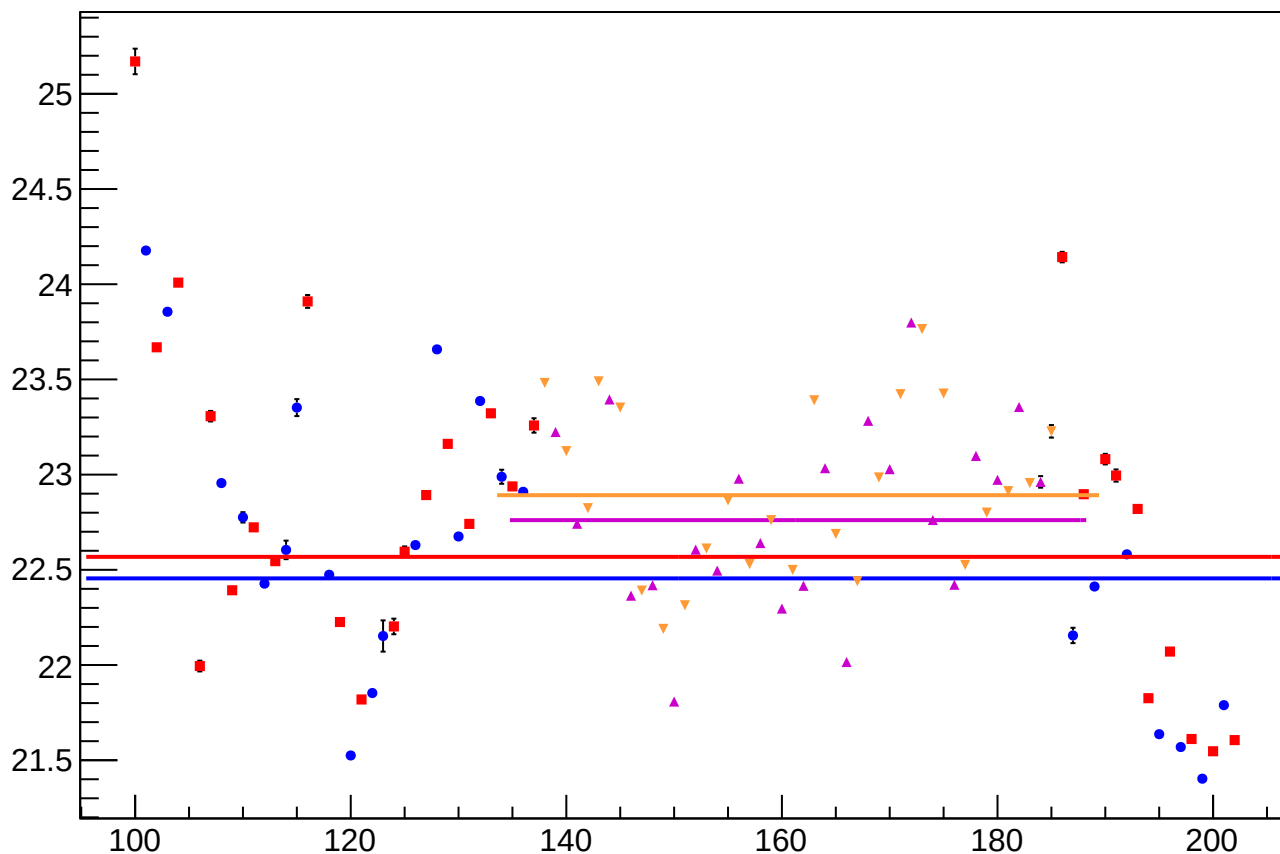
Right: 4.234 ± 4.509 $\chi^2/\text{NDF}: 55.0/52$

In: 0.593 ± 4.220 $\chi^2/\text{NDF}: 44.2/46$

Out: 10.254 ± 4.027 $\chi^2/\text{NDF}: 66.6/53$

All: 5.650 ± 2.913 $\chi^2/\text{NDF}: 113.5/100$

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.455 ± 0.005 $\chi^2/\text{NDF}: 28057.8/23$

Left Out: 22.892 ± 0.004 $\chi^2/\text{NDF}: 12995.5/24$

Right Out: 22.568 ± 0.004 $\chi^2/\text{NDF}: 29764.5/28$

Left In: 22.761 ± 0.004 $\chi^2/\text{NDF}: 14550.0/22$

Left: 22.828 ± 0.003 $\chi^2/\text{NDF}: 28133.9/47$

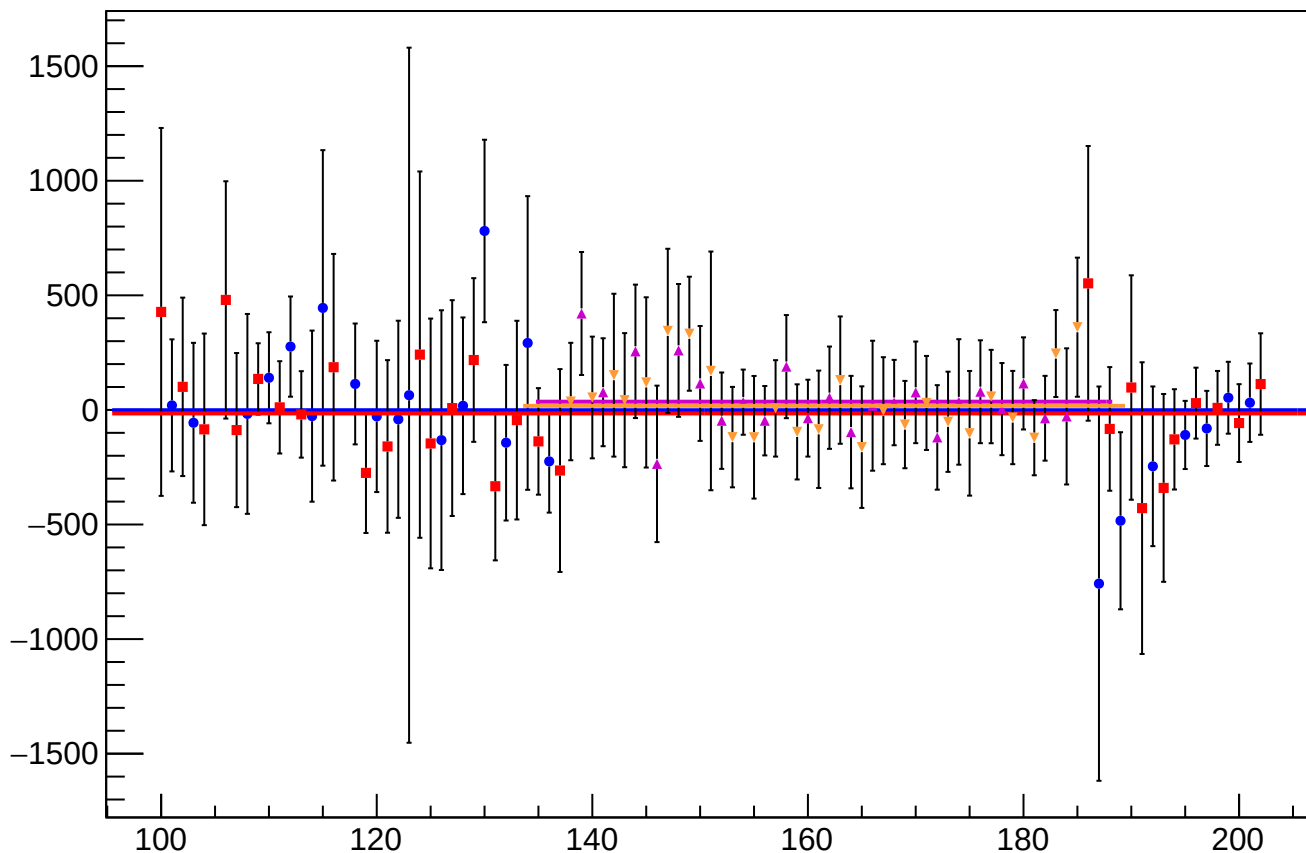
Right: 22.516 ± 0.003 $\chi^2/\text{NDF}: 58135.0/52$

In: 22.637 ± 0.003 $\chi^2/\text{NDF}: 45138.3/46$

Out: 22.753 ± 0.003 $\chi^2/\text{NDF}: 45931.0/53$

All: 22.698 ± 0.002 $\chi^2/\text{NDF}: 91849.0/100$

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -1.324 ± 54.946 $\chi^2/\text{NDF}: 11.8/23$

Left Out: 17.777 ± 47.941 $\chi^2/\text{NDF}: 8.5/24$

Right Out: -15.363 ± 50.815 $\chi^2/\text{NDF}: 8.6/28$

Left In: 35.879 ± 45.087 $\chi^2/\text{NDF}: 6.3/22$

Left: 27.383 ± 32.844 $\chi^2/\text{NDF}: 14.9/47$

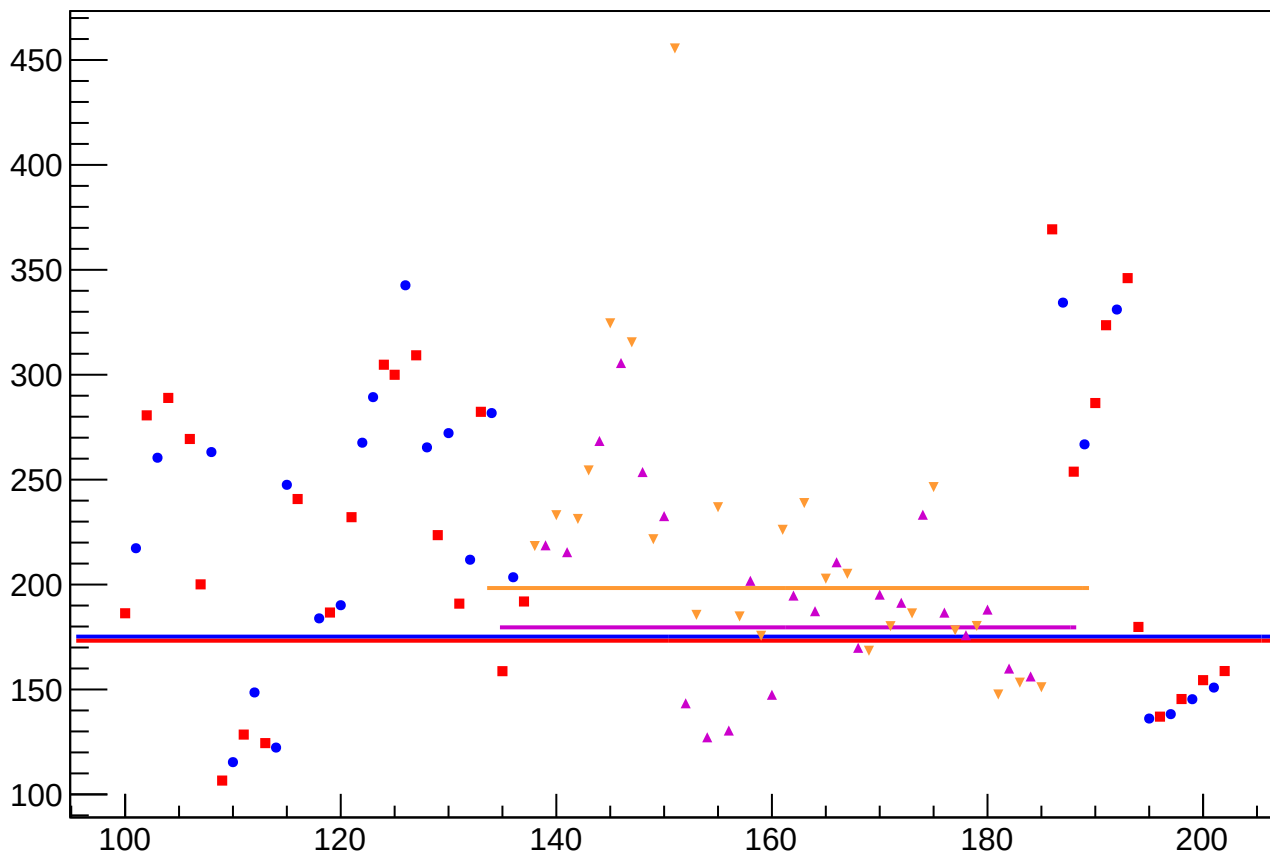
Right: -8.891 ± 37.307 $\chi^2/\text{NDF}: 20.5/52$

In: 20.909 ± 34.855 $\chi^2/\text{NDF}: 18.4/46$

Out: 2.170 ± 34.871 $\chi^2/\text{NDF}: 17.4/53$

All: 11.544 ± 24.652 $\chi^2/\text{NDF}: 35.9/100$

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 175.186 $\pm$ 0.039 χ^2 /NDF: 2073567.3/23

Left Out: 198.344 $\pm$ 0.034 χ^2 /NDF: 1757450.6/24

Right Out: 173.240 $\pm$ 0.036 χ^2 /NDF: 2761632.6/28

Left In: 179.605 $\pm$ 0.032 χ^2 /NDF: 1575744.0/22

Left: 188.400 $\pm$ 0.023 χ^2 /NDF: 3495336.8/47

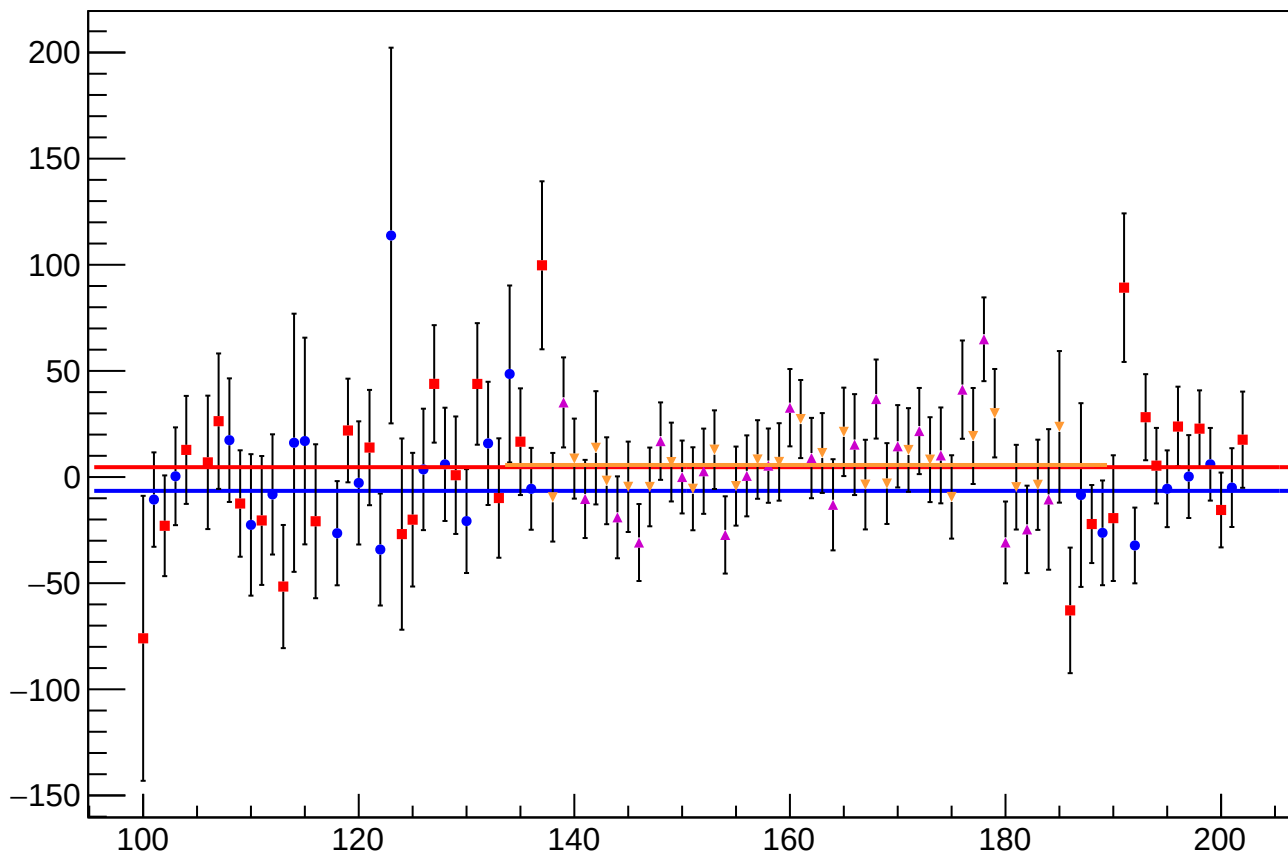
Right: 174.137 $\pm$ 0.026 χ^2 /NDF: 4836552.9/52

In: 177.827 $\pm$ 0.025 χ^2 /NDF: 3657041.2/46

Out: 186.521 $\pm$ 0.025 χ^2 /NDF: 4777340.1/53

All: 182.172 $\pm$ 0.017 χ^2 /NDF: 8496577.6/100

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -6.514 ± 5.103 $\chi^2/\text{NDF}: 11.4/23$

Left Out: 5.680 ± 4.024 $\chi^2/\text{NDF}: 7.7/24$

Right Out: 4.648 ± 4.728 $\chi^2/\text{NDF}: 39.5/28$

Left In: 5.595 ± 4.121 $\chi^2/\text{NDF}: 36.4/22$

Left: 5.639 ± 2.879 $\chi^2/\text{NDF}: 44.1/47$

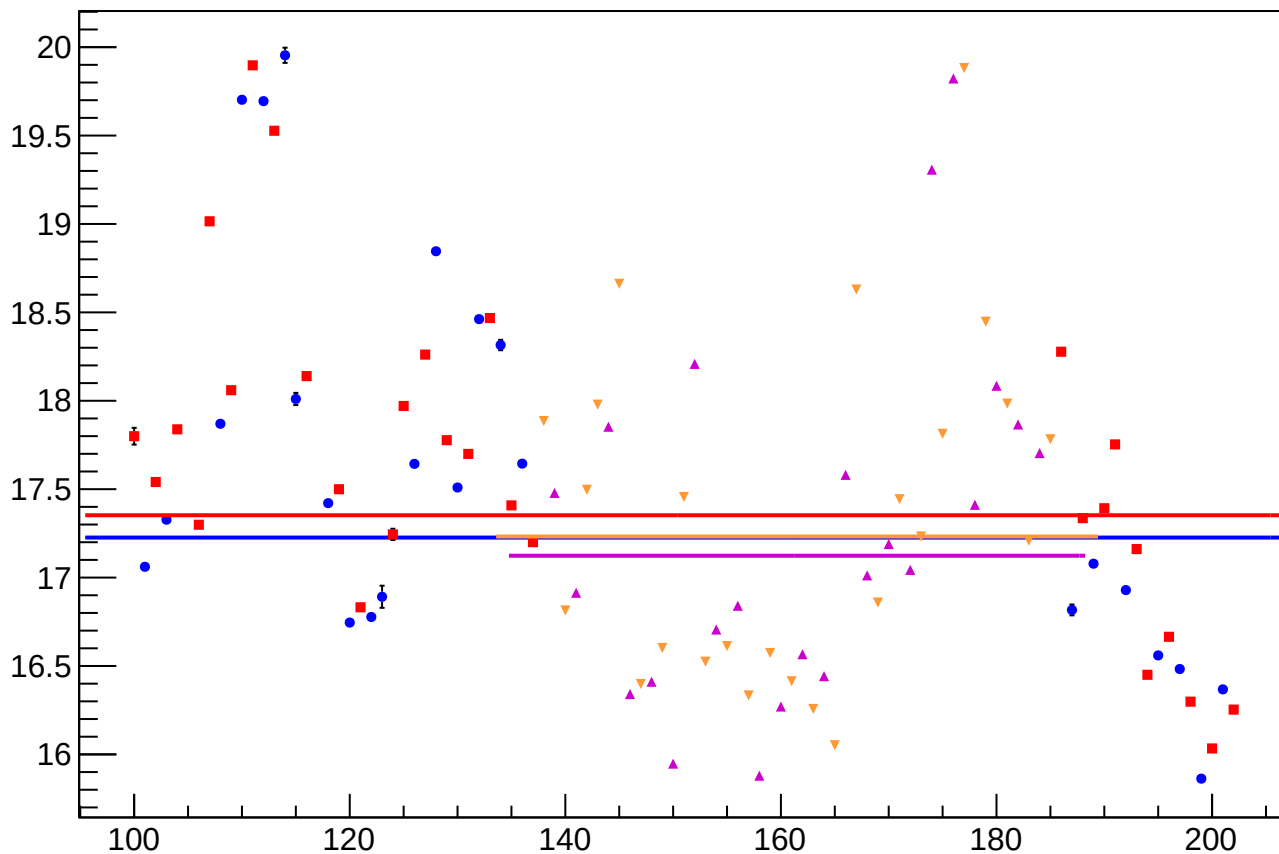
Right: -0.508 ± 3.468 $\chi^2/\text{NDF}: 53.5/52$

In: 0.815 ± 3.206 $\chi^2/\text{NDF}: 51.2/46$

Out: 5.247 ± 3.064 $\chi^2/\text{NDF}: 47.3/53$

All: 3.131 ± 2.215 $\chi^2/\text{NDF}: 99.5/100$

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 17.226 $\pm$ 0.004 χ^2 /NDF: 70566.1/23

Left Out: 17.232 $\pm$ 0.003 χ^2 /NDF:98701.0/24

Right Out: 17.353 $\pm$ 0.003 χ^2 /NDF: 74849.7/28

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

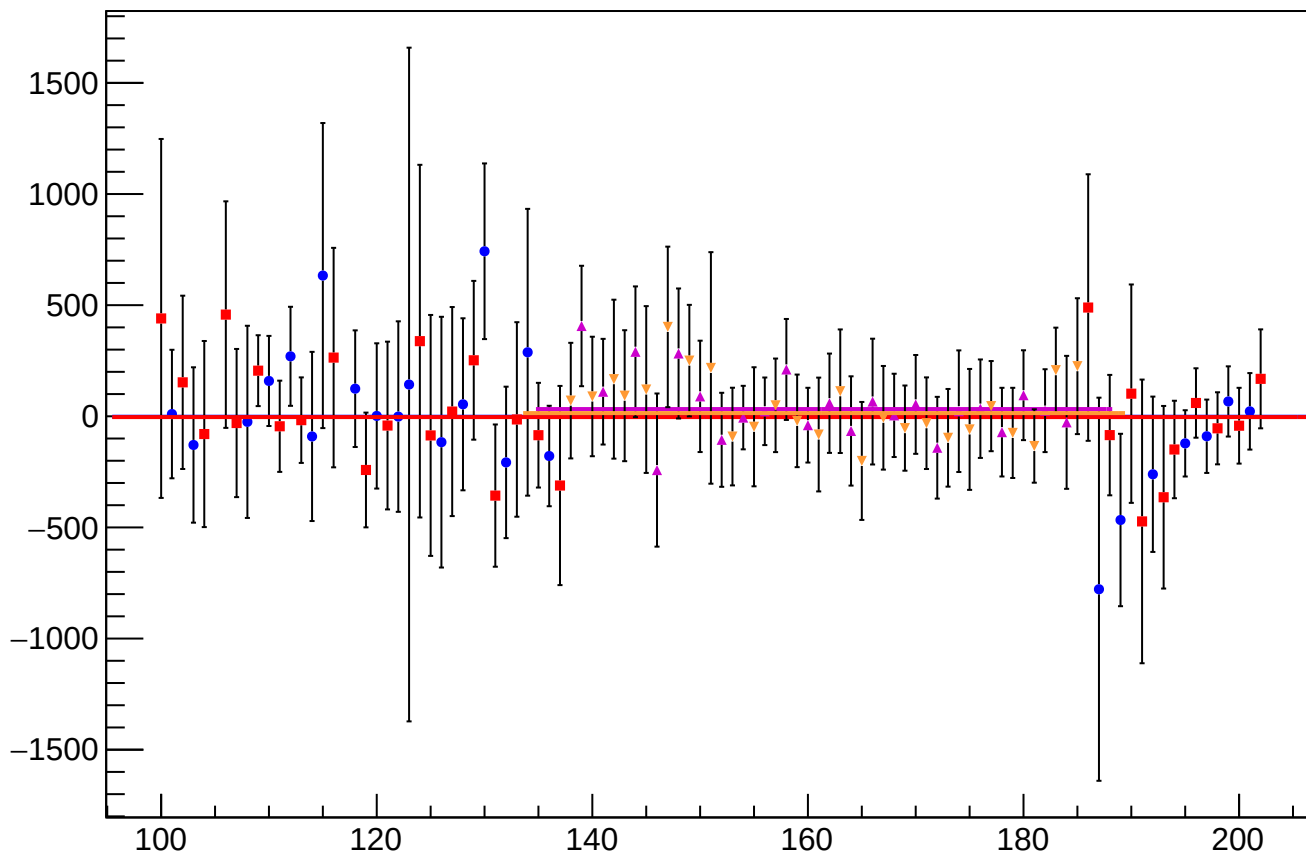
Right: 17.294 $\pm$ 0.002 χ^2 /NDF: 146074.3/52

In: 17.164 $\pm$ 0.002 χ^2 /NDF:171802.5/46

Out: 17.283 $\pm$ 0.002 χ^2 /NDF:174299.5/53

All: 17.226 $\pm$ 0.002 χ^2 /NDF: 347533.9/100

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -1.975 ± 55.274 $\chi^2/\text{NDF}: 12.1/23$

Left Out: 14.362 ± 48.130 $\chi^2/\text{NDF}: 6.9/24$

Right Out: -3.571 ± 51.190 $\chi^2/\text{NDF}: 10.2/28$

Left In: 32.571 ± 45.248 $\chi^2/\text{NDF}: 6.7/22$

Left: 24.028 ± 32.967 $\chi^2/\text{NDF}: 13.7/47$

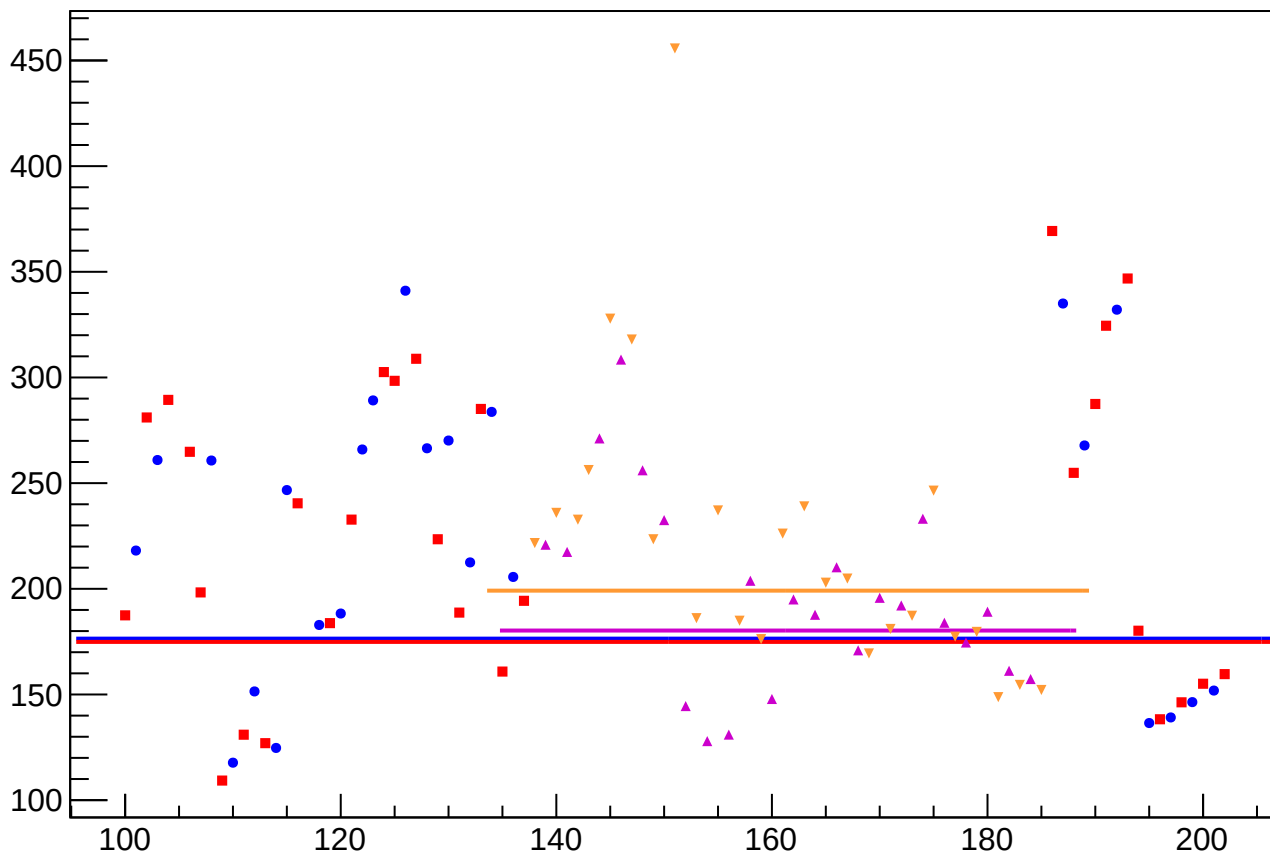
Right: -2.834 ± 37.558 $\chi^2/\text{NDF}: 22.4/52$

In: 18.710 ± 35.012 $\chi^2/\text{NDF}: 19.1/46$

Out: 5.948 ± 35.065 $\chi^2/\text{NDF}: 17.3/53$

All: 12.338 ± 24.776 $\chi^2/\text{NDF}: 36.4/100$

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 176.426 $\pm$ 0.039 χ^2/NDF : 2024049.7/23

Left Out: 199.136 $\pm$ 0.034 χ^2/NDF :1760298.1/24

Right Out: 174.881 $\pm$ 0.036 χ^2/NDF : 2665811.2/28

Left In: 180.256 $\pm$ 0.032 χ^2/NDF :1580553.5/22

Left: 189.114 $\pm$ 0.023 χ^2/NDF : 3504211.1/47

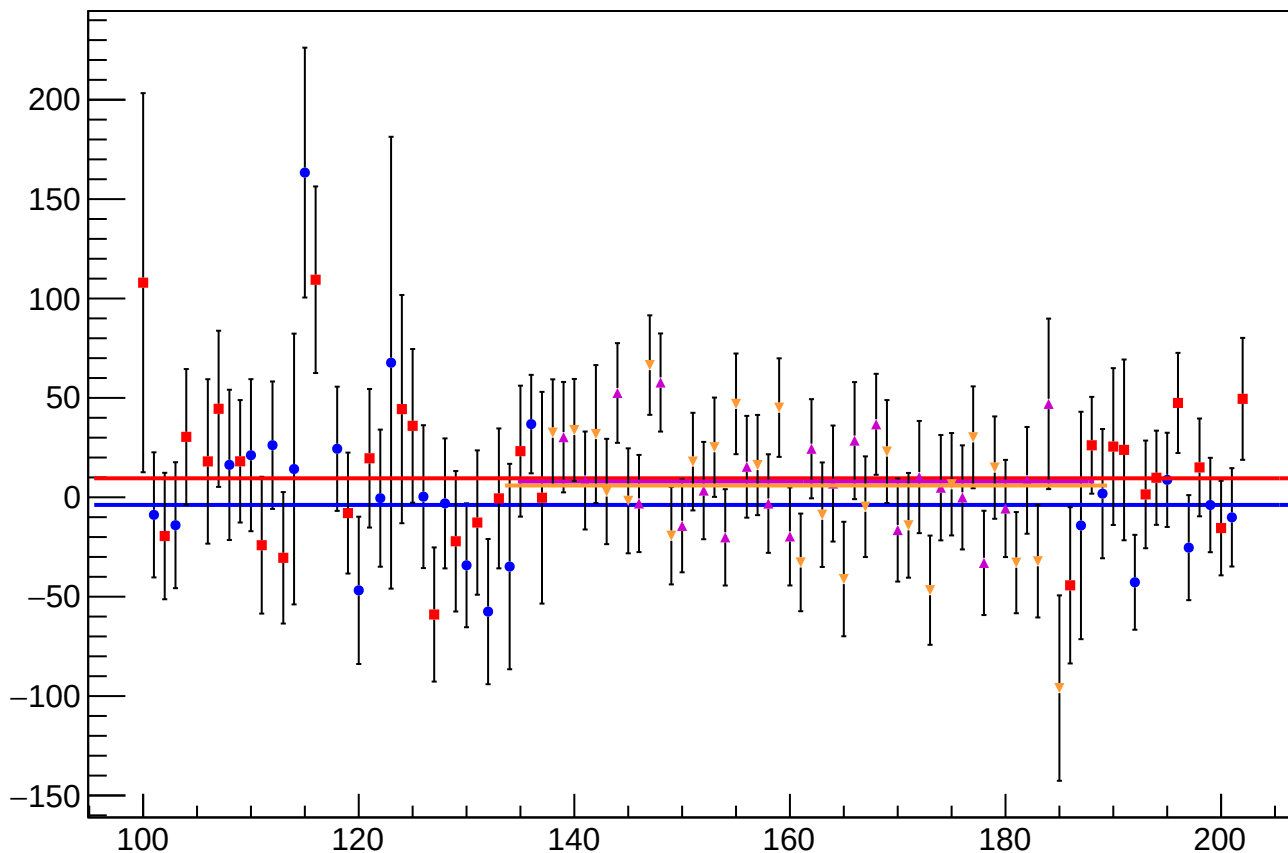
Right: 175.594 $\pm$ 0.027 χ^2/NDF : 4690701.9/52

In: 178.719 $\pm$ 0.025 χ^2/NDF :3610353.7/46

Out: 187.755 $\pm$ 0.025 χ^2/NDF :4664432.1/53

All: 183.231 $\pm$ 0.018 χ^2/NDF : 8341287.6/100

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -3.839 ± 6.648 $\chi^2/\text{NDF}: 21.3/23$

Left Out: 5.937 ± 5.285 $\chi^2/\text{NDF}: 36.1/24$

Right Out: 9.554 ± 6.141 $\chi^2/\text{NDF}: 24.8/28$

Left In: 7.915 ± 5.422 $\chi^2/\text{NDF}: 18.7/22$

Left: 6.901 ± 3.784 $\chi^2/\text{NDF}: 54.9/47$

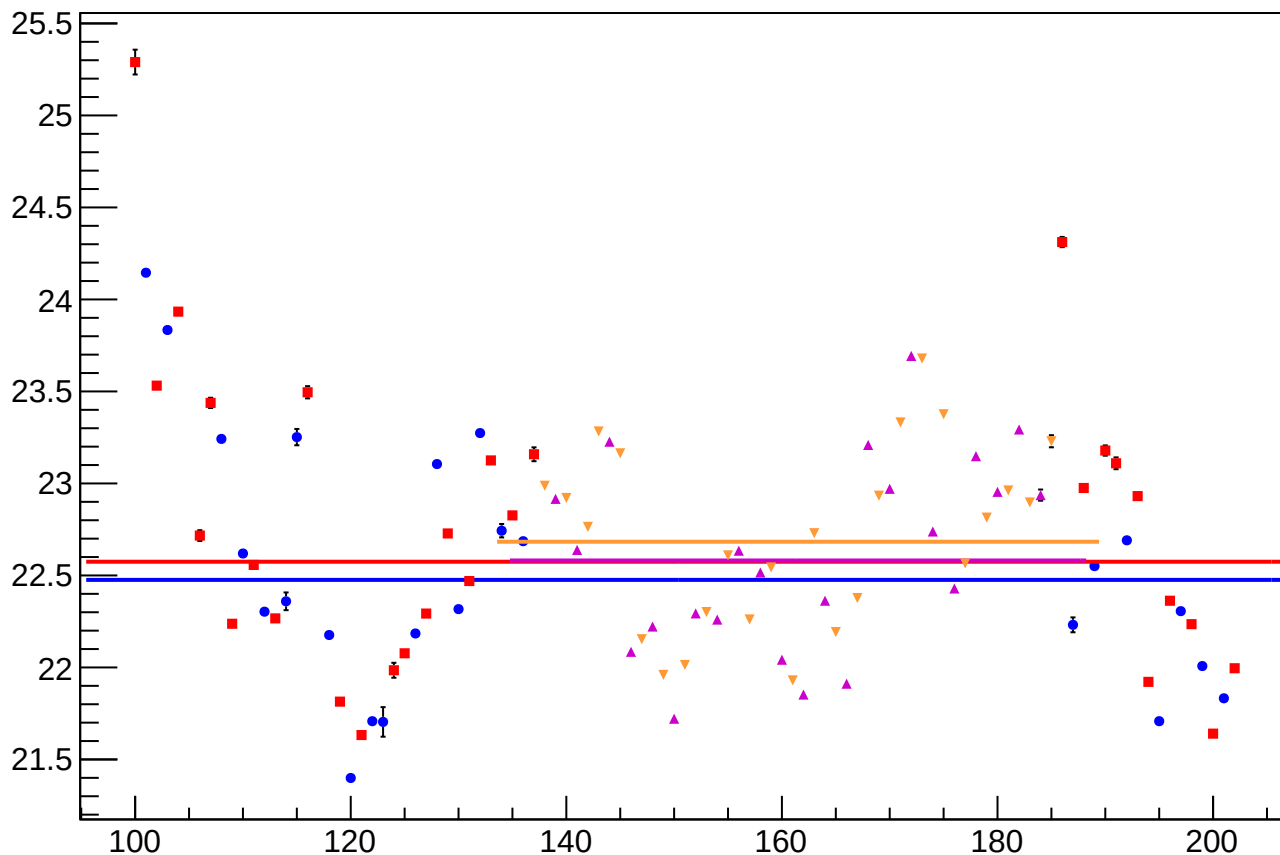
Right: 3.388 ± 4.511 $\chi^2/\text{NDF}: 48.3/52$

In: 3.221 ± 4.202 $\chi^2/\text{NDF}: 41.9/46$

Out: 7.476 ± 4.006 $\chi^2/\text{NDF}: 61.1/53$

All: 5.450 ± 2.899 $\chi^2/\text{NDF}: 103.6/100$

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.476 $\pm$ 0.005 χ^2 /NDF: 20081.3/23

Left Out: 22.683 $\pm$ 0.004 χ^2 /NDF:16320.2/24

Right Out: 22.575 $\pm$ 0.004 χ^2 /NDF: 24459.8/28

Left In: 22.581 $\pm$ 0.004 χ^2 /NDF:17904.5/22

Left: 22.634 $\pm$ 0.003 χ^2 /NDF: 34586.9/47

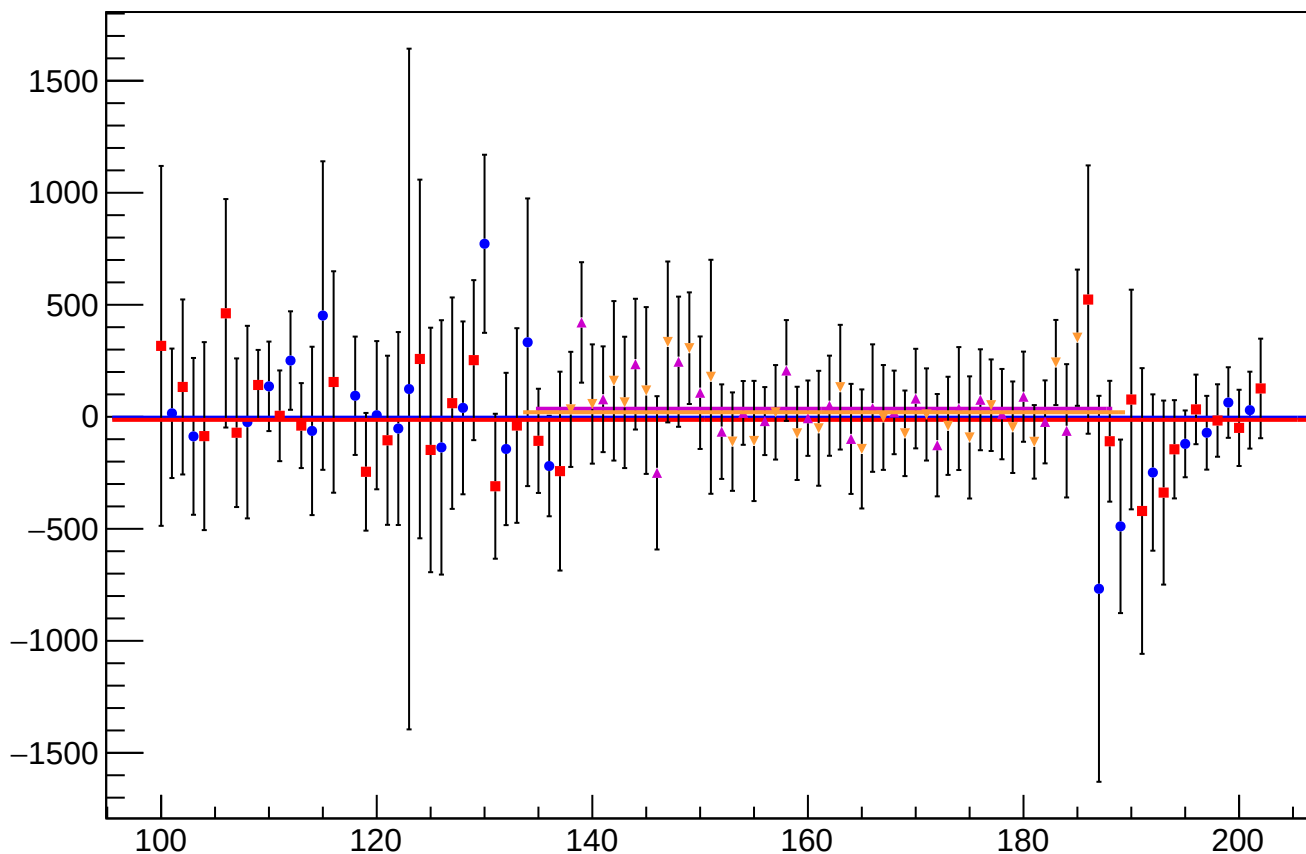
Right: 22.529 $\pm$ 0.003 χ^2 /NDF: 44778.4/52

In: 22.539 $\pm$ 0.003 χ^2 /NDF:38287.4/46

Out: 22.637 $\pm$ 0.003 χ^2 /NDF:41139.6/53

All: 22.590 $\pm$ 0.002 χ^2 /NDF: 79993.9/100

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -3.805 ± 55.110 $\chi^2/\text{NDF}: 11.6/23$

Left Out: 20.306 ± 48.049 $\chi^2/\text{NDF}: 7.7/24$

Right Out: -13.574 ± 50.940 $\chi^2/\text{NDF}: 8.1/28$

Left In: 35.996 ± 45.180 $\chi^2/\text{NDF}: 6.1/22$

Left: 28.633 ± 32.915 $\chi^2/\text{NDF}: 13.8/47$

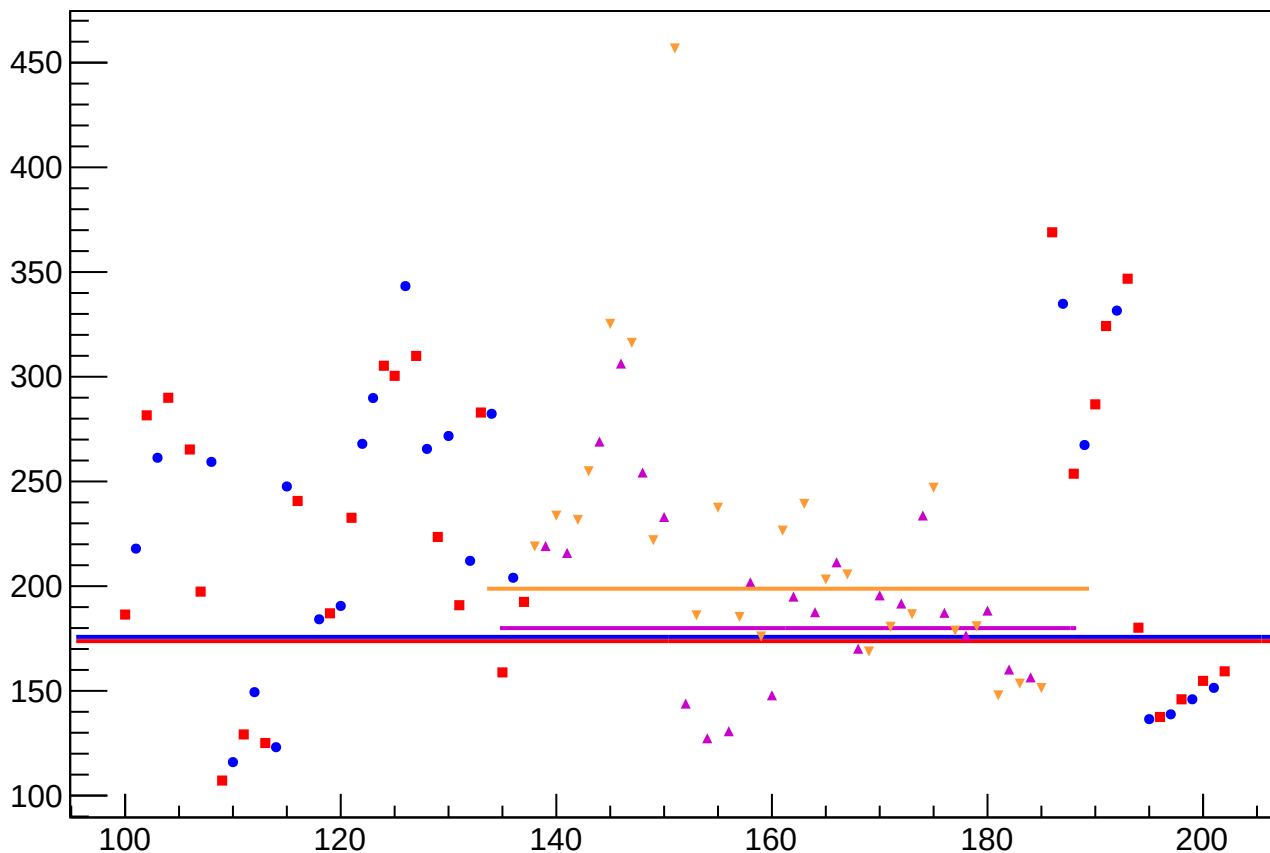
Right: -9.073 ± 37.407 $\chi^2/\text{NDF}: 19.8/52$

In: 19.998 ± 34.939 $\chi^2/\text{NDF}: 18.0/46$

Out: 4.355 ± 34.953 $\chi^2/\text{NDF}: 16.1/53$

All: 12.180 ± 24.711 $\chi^2/\text{NDF}: 34.1/100$

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 175.786 $\pm$ 0.039 χ^2 /NDF: 2054752.8/23

Left Out: 198.784 $\pm$ 0.034 χ^2 /NDF:1758481.8/24

Right Out: 173.758 $\pm$ 0.036 χ^2 /NDF: 2736696.2/28

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

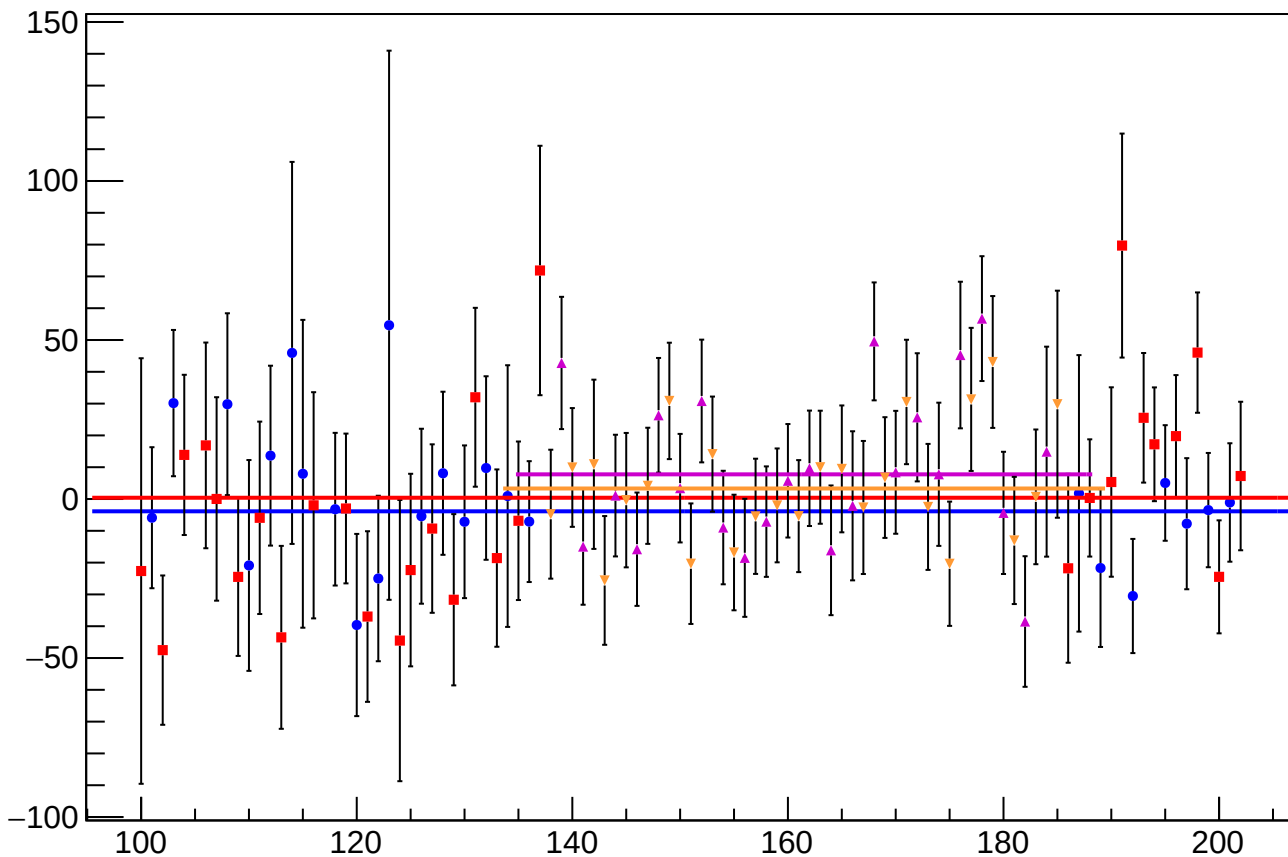
Right: 174.692 $\pm$ 0.026 χ^2 /NDF: 4792909.6/52

In: 178.290 $\pm$ 0.025 χ^2 /NDF:3637543.7/46

Out: 187.001 $\pm$ 0.025 χ^2 /NDF:4750633.0/53

All: 182.644 $\pm$ 0.017 χ^2 /NDF: 8450324.6/100

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -3.868 ± 5.108 χ^2/NDF : 11.2/23

Left Out: 3.307 ± 3.954 χ^2/NDF : 18.7/24

Right Out: 0.399 ± 4.729 χ^2/NDF : 35.4/28

Left In: 7.756 ± 4.061 χ^2/NDF : 34.3/22

Left: 5.472 ± 2.833 χ^2/NDF : 53.6/47

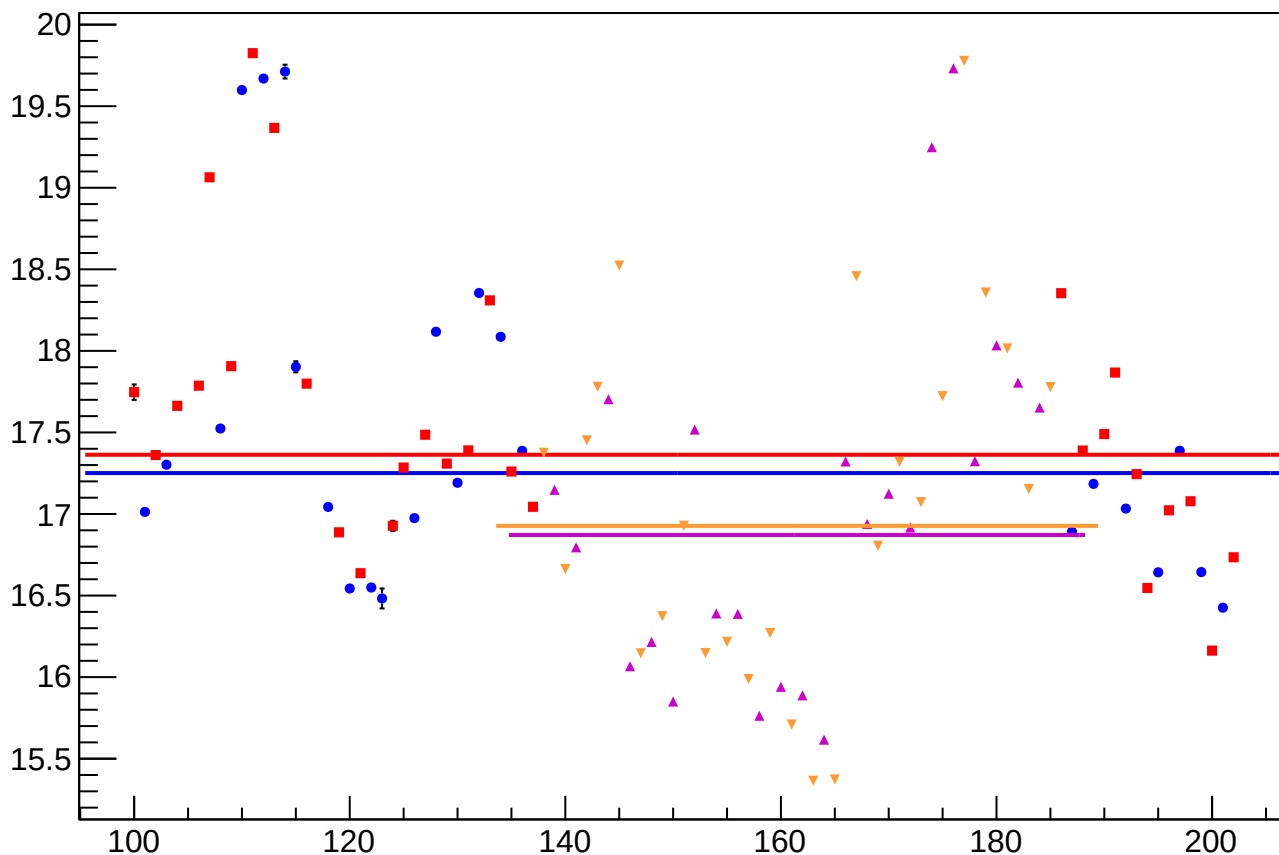
Right: -1.570 ± 3.470 χ^2/NDF : 47.0/52

In: 3.254 ± 3.179 χ^2/NDF : 48.6/46

Out: 2.111 ± 3.033 χ^2/NDF : 54.3/53

All: 2.656 ± 2.194 χ^2/NDF : 103.0/100

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 17.251 $\pm$ 0.004 χ^2 /NDF: 47118.1/23

Left Out: 16.927 $\pm$ 0.003 χ^2 /NDF:138533.2/24

Right Out: 17.363 $\pm$ 0.003 χ^2 /NDF: 54141.0/28

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

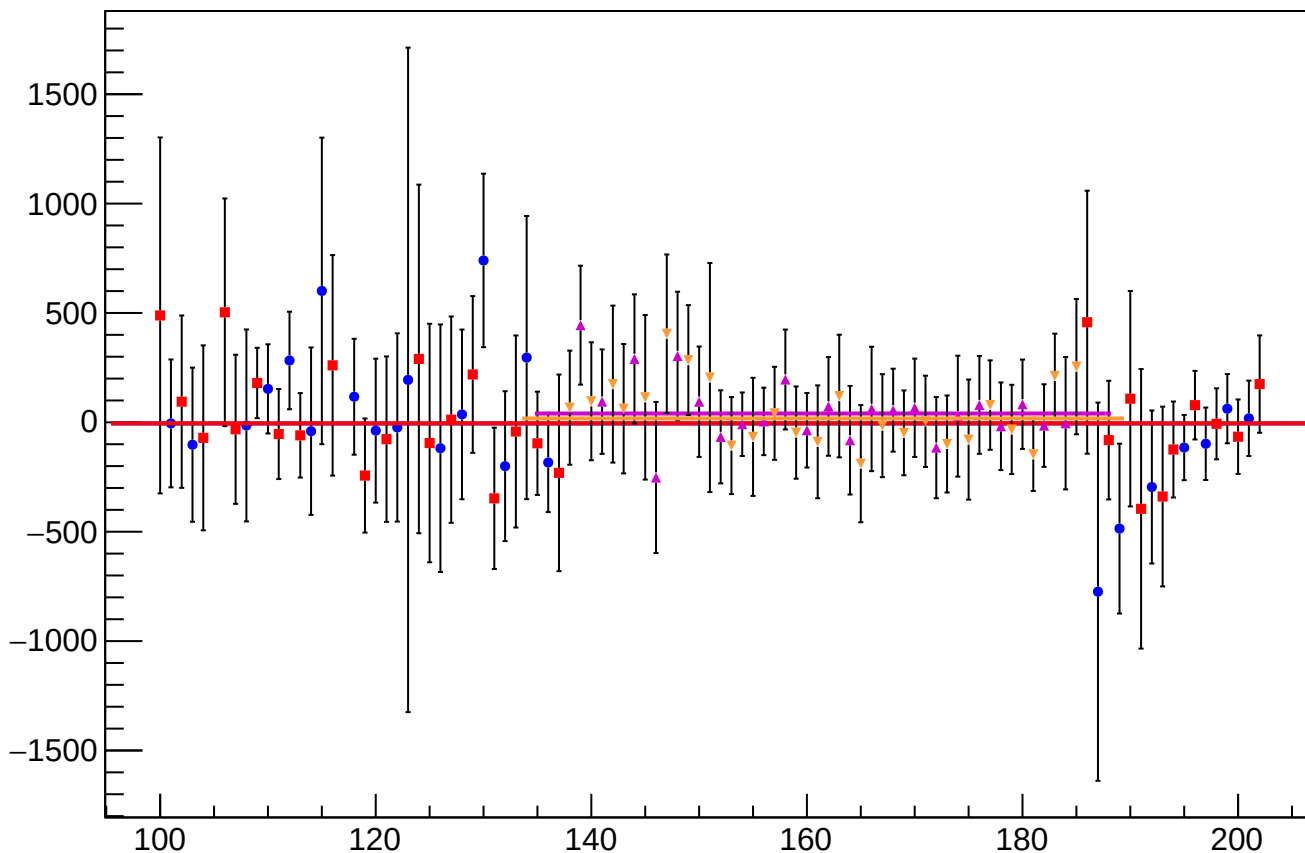
Right: 17.311 $\pm$ 0.002 χ^2 /NDF: 101778.3/52

In: 17.018 $\pm$ 0.002 χ^2 /NDF:171884.5/46

Out: 17.107 $\pm$ 0.002 χ^2 /NDF:202674.4/53

All: 17.065 $\pm$ 0.002 χ^2 /NDF: 375366.2/100

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -5.127 ± 55.476 $\chi^2/\text{NDF}: 12.2/23$

Left Out: 17.828 ± 48.547 $\chi^2/\text{NDF}: 7.5/24$

Right Out: -4.480 ± 51.401 $\chi^2/\text{NDF}: 9.2/28$

Left In: 40.355 ± 45.689 $\chi^2/\text{NDF}: 6.6/22$

Left: 29.774 ± 33.271 $\chi^2/\text{NDF}: 14.2/47$

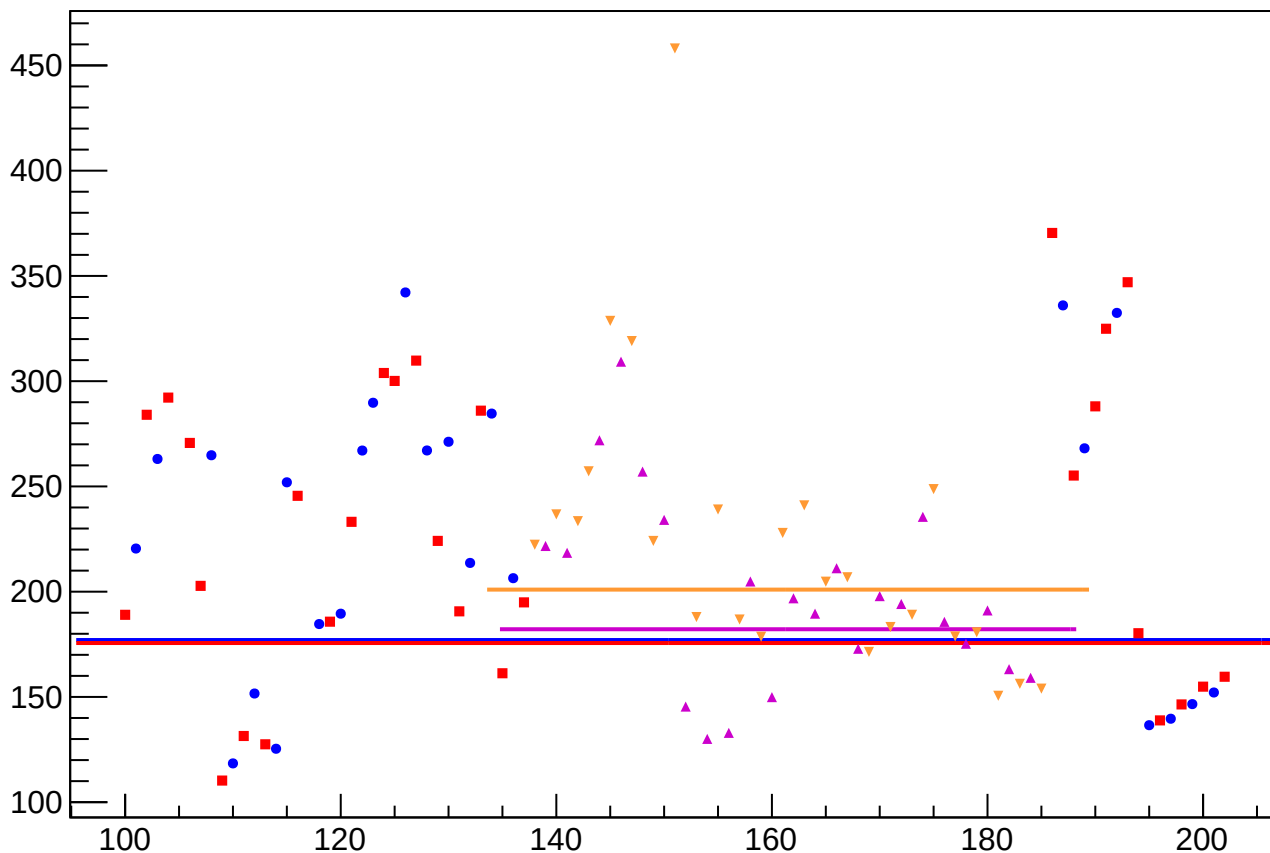
Right: -4.779 ± 37.705 $\chi^2/\text{NDF}: 21.4/52$

In: 21.973 ± 35.268 $\chi^2/\text{NDF}: 19.2/46$

Out: 7.311 ± 35.294 $\chi^2/\text{NDF}: 16.8/53$

All: 14.648 ± 24.947 $\chi^2/\text{NDF}: 36.1/100$

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 177.032 $\pm$ 0.039 χ^2 /NDF: 2036954.4/23

Left Out: 200.985 $\pm$ 0.034 χ^2 /NDF:1727291.4/24

Right Out: 175.608 $\pm$ 0.036 χ^2 /NDF: 2673858.3/28

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

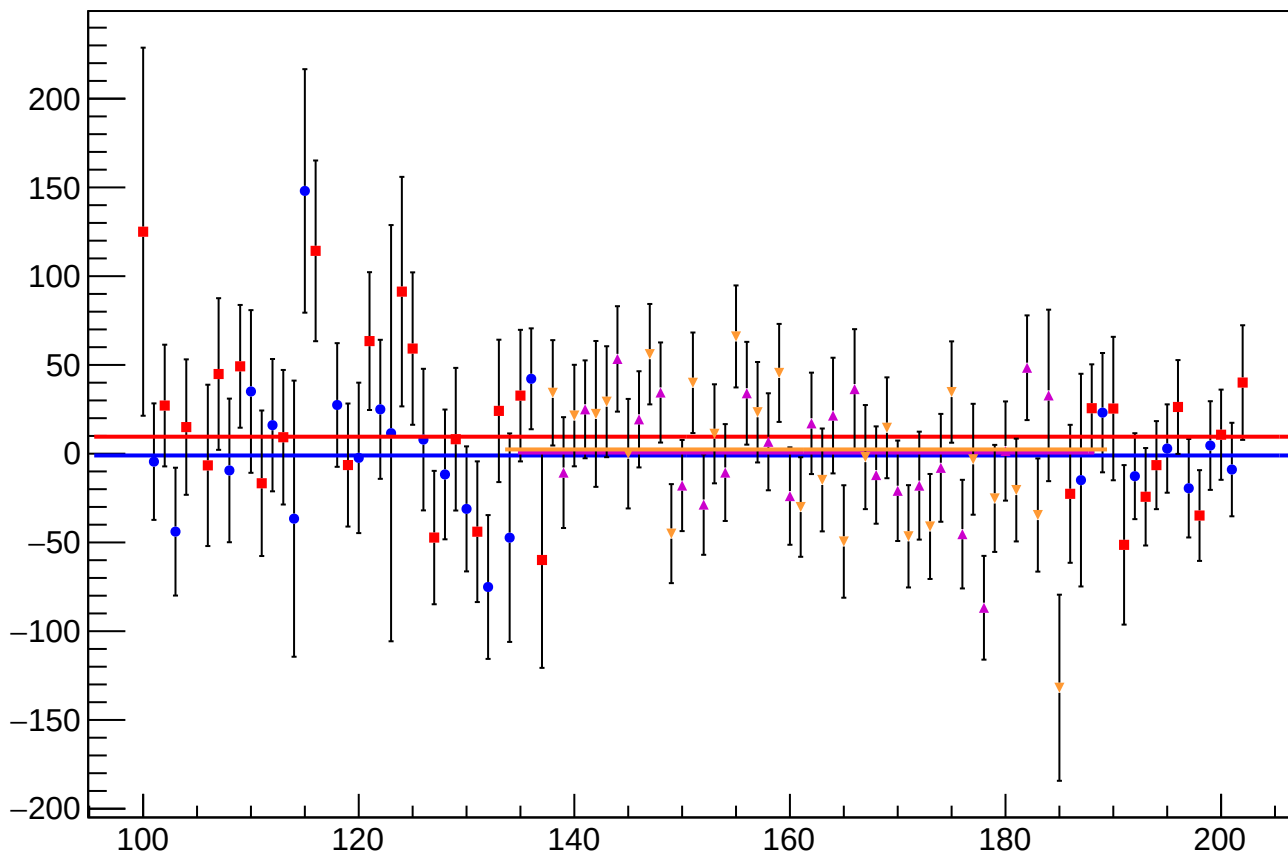
Right: 176.266 $\pm$ 0.027 χ^2 /NDF: 4711521.0/52

In: 180.086 $\pm$ 0.025 χ^2 /NDF:3583054.2/46

Out: 189.021 $\pm$ 0.025 χ^2 /NDF:4658799.0/53

All: 184.550 $\pm$ 0.018 χ^2 /NDF: 8305985.1/100

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -1.003 ± 7.228 χ^2/NDF : 16.9/23

Left Out: 2.390 ± 5.980 χ^2/NDF : 39.1/24

Right Out: 9.573 ± 6.613 χ^2/NDF : 28.6/28

Left In: 0.641 ± 6.091 χ^2/NDF : 27.3/22

Left: 1.531 ± 4.267 χ^2/NDF : 66.5/47

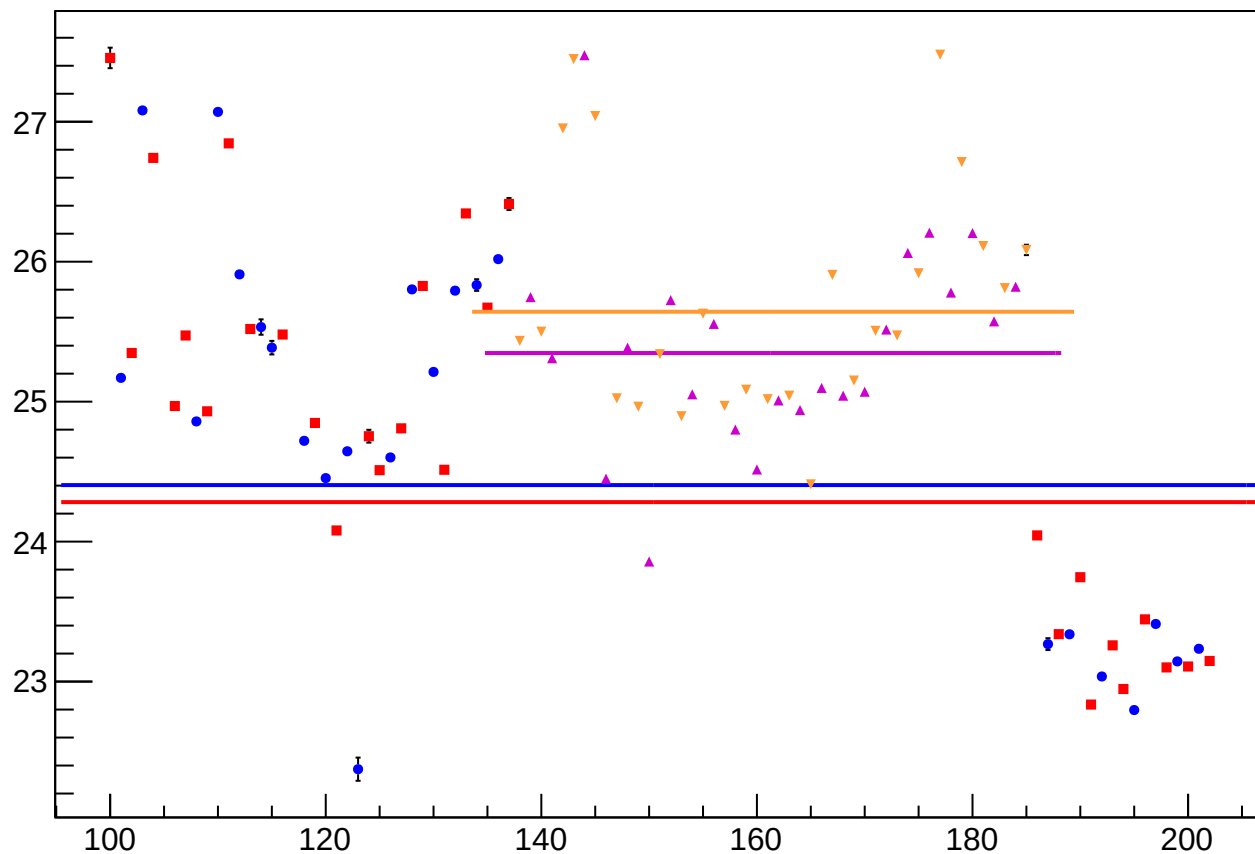
Right: 4.755 ± 4.879 χ^2/NDF : 46.7/52

In: -0.041 ± 4.658 χ^2/NDF : 44.2/46

Out: 5.621 ± 4.435 χ^2/NDF : 68.4/53

All: 2.928 ± 3.212 χ^2/NDF : 113.4/100

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 24.404 $\pm$ 0.005 χ^2/NDF : 67168.9/23

Left Out: 25.642 $\pm$ 0.004 χ^2/NDF :34802.2/24

Right Out: 24.282 $\pm$ 0.005 χ^2/NDF : 67626.3/28

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

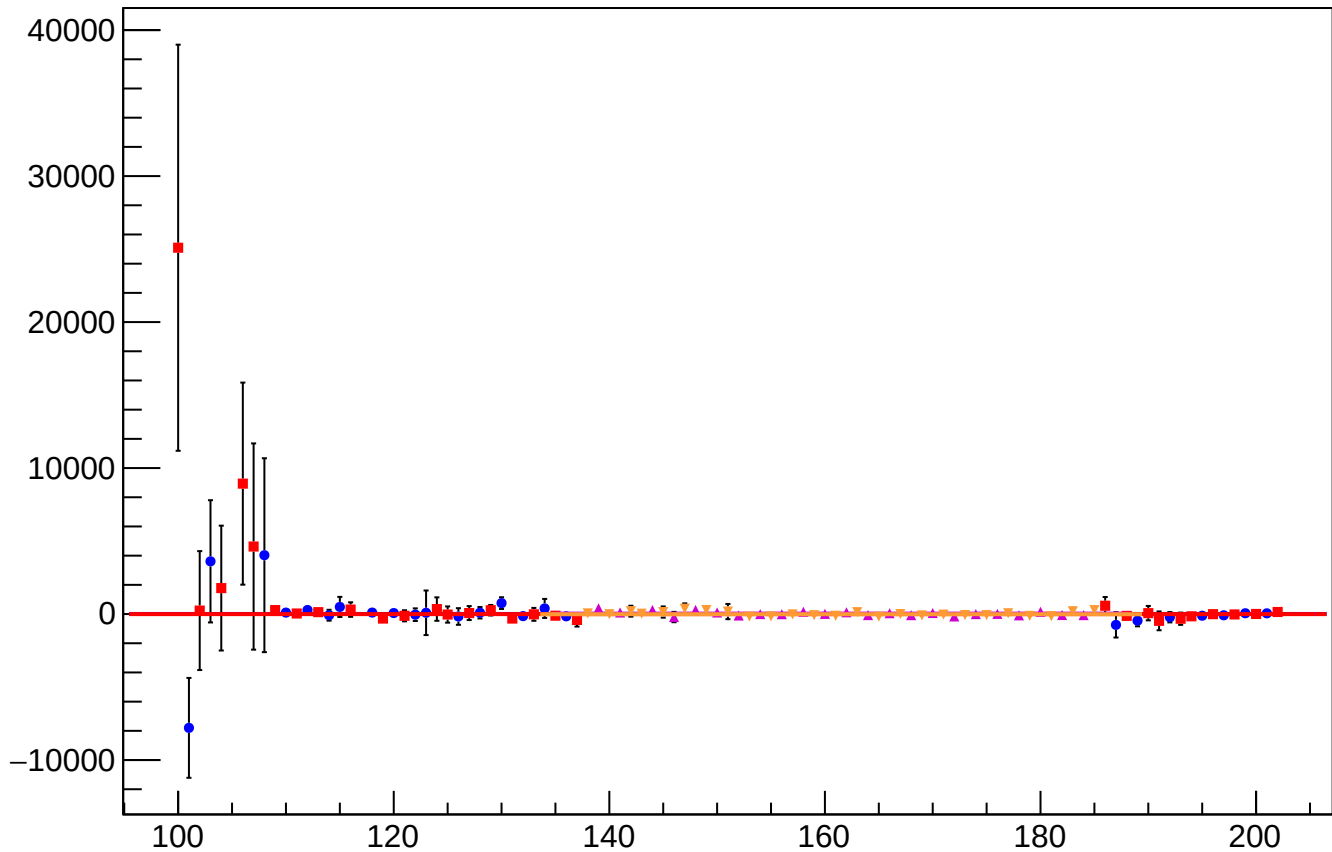
Right: 24.338 $\pm$ 0.003 χ^2/NDF : 135103.7/52

In: 24.956 $\pm$ 0.003 χ^2/NDF :116488.8/46

Out: 25.030 $\pm$ 0.003 χ^2/NDF :148979.1/53

All: 24.995 $\pm$ 0.002 χ^2/NDF : 265738.4/100

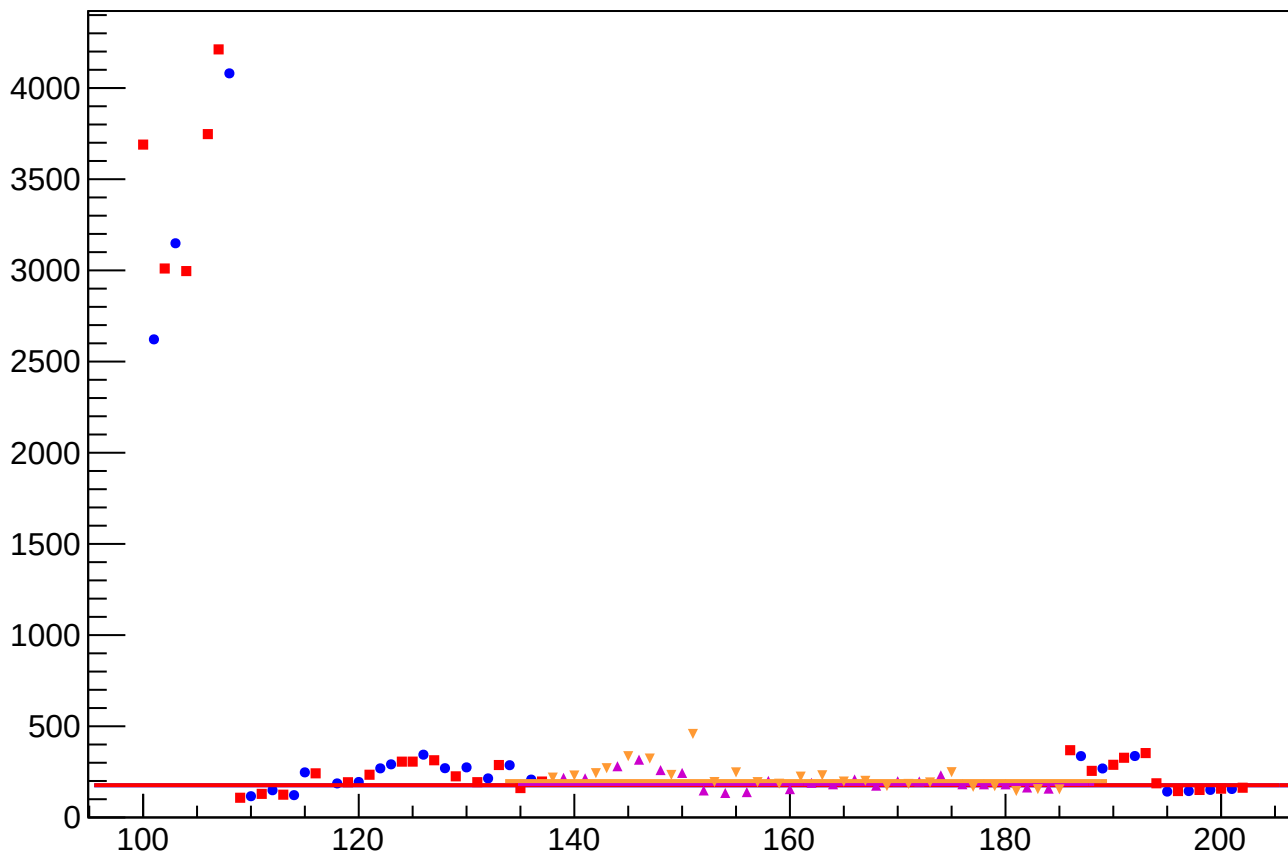
asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: 6.507+/-58.679 χ^2/NDF : 16.9/23
 Left Out: -11.432+/-48.263 χ^2/NDF : 8.0/24
 Right Out: -3.896+/-55.344 χ^2/NDF : 15.1/28
 Left In: 27.098+/-45.999 χ^2/NDF : 7.2/22

Left: 8.758+/-33.298 χ^2/NDF : 15.5/47
 Right: 1.001+/-40.262 χ^2/NDF : 32.1/52
 In: 19.260+/-36.201 χ^2/NDF : 24.2/46
 Out: -8.177+/-36.375 χ^2/NDF : 23.2/53
 All: 5.607+/-25.659 χ^2/NDF : 47.7/100

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 176.156+/-0.041 χ^2/NDF : 4464951.4/23

Left Out: 199.438+/-0.034 χ^2/NDF : 1877848.7/24

Right Out: 176.949+/-0.039 χ^2/NDF : 5307354.4/28

Left In: 183.805+/-0.033 χ^2/NDF : 1412869.6/22

Left: 191.246+/-0.024 χ^2/NDF : 3400676.1/47

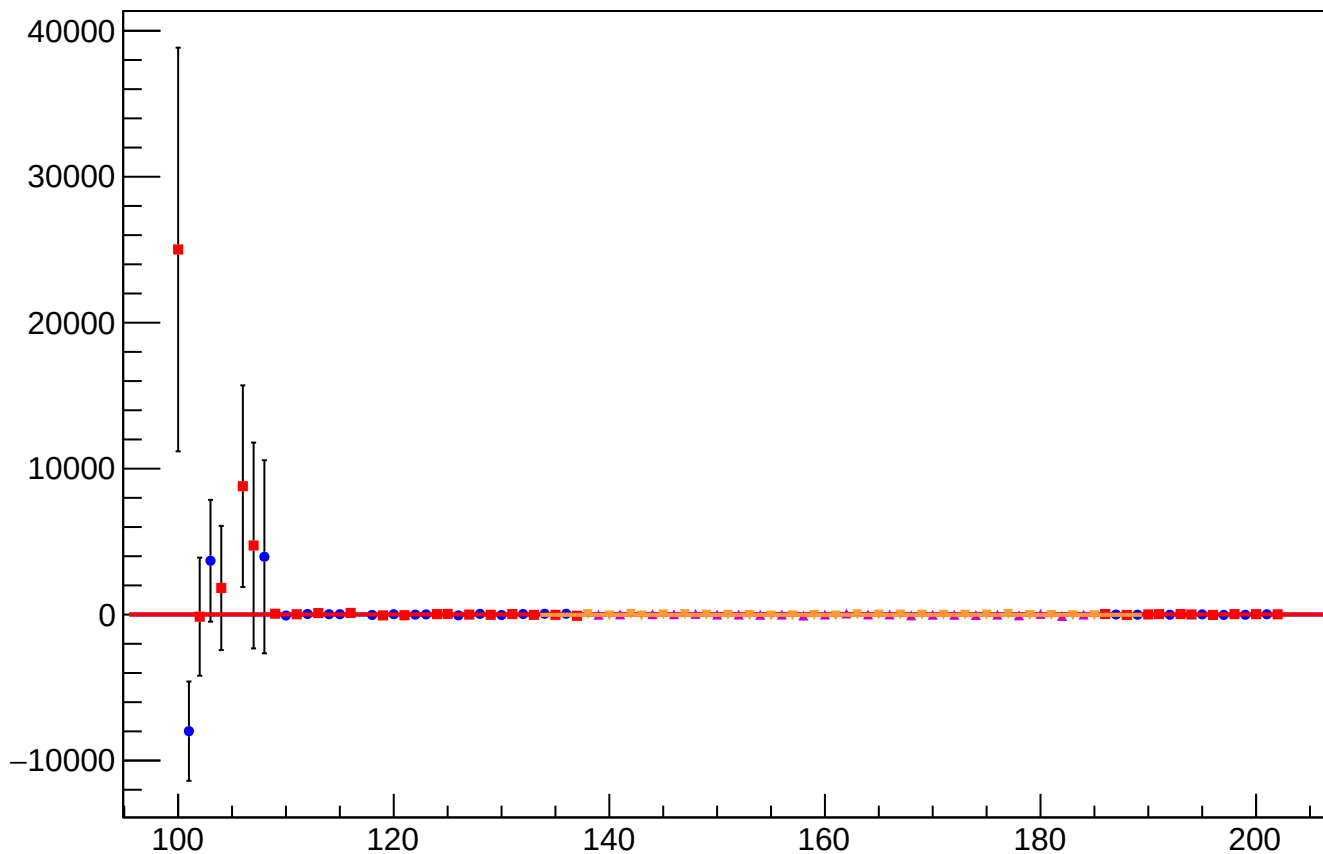
Right: 176.575+/-0.028 χ^2/NDF : 9772499.1/52

In: 180.894+/-0.026 χ^2/NDF : 5898872.2/46

Out: 189.723+/-0.026 χ^2/NDF : 7372794.7/53

All: 185.287+/-0.018 χ^2/NDF : 13330872.9/100

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 5.413+/-8.771 χ^2/NDF : 20.3/23

Left Out: -18.118+/-6.704 χ^2/NDF : 21.7/24

Right Out: 13.093+/-8.167 χ^2/NDF : 28.7/28

Left In: 1.267+/-6.908 χ^2/NDF : 32.0/22

Left: -8.716+/-4.811 χ^2/NDF : 57.8/47

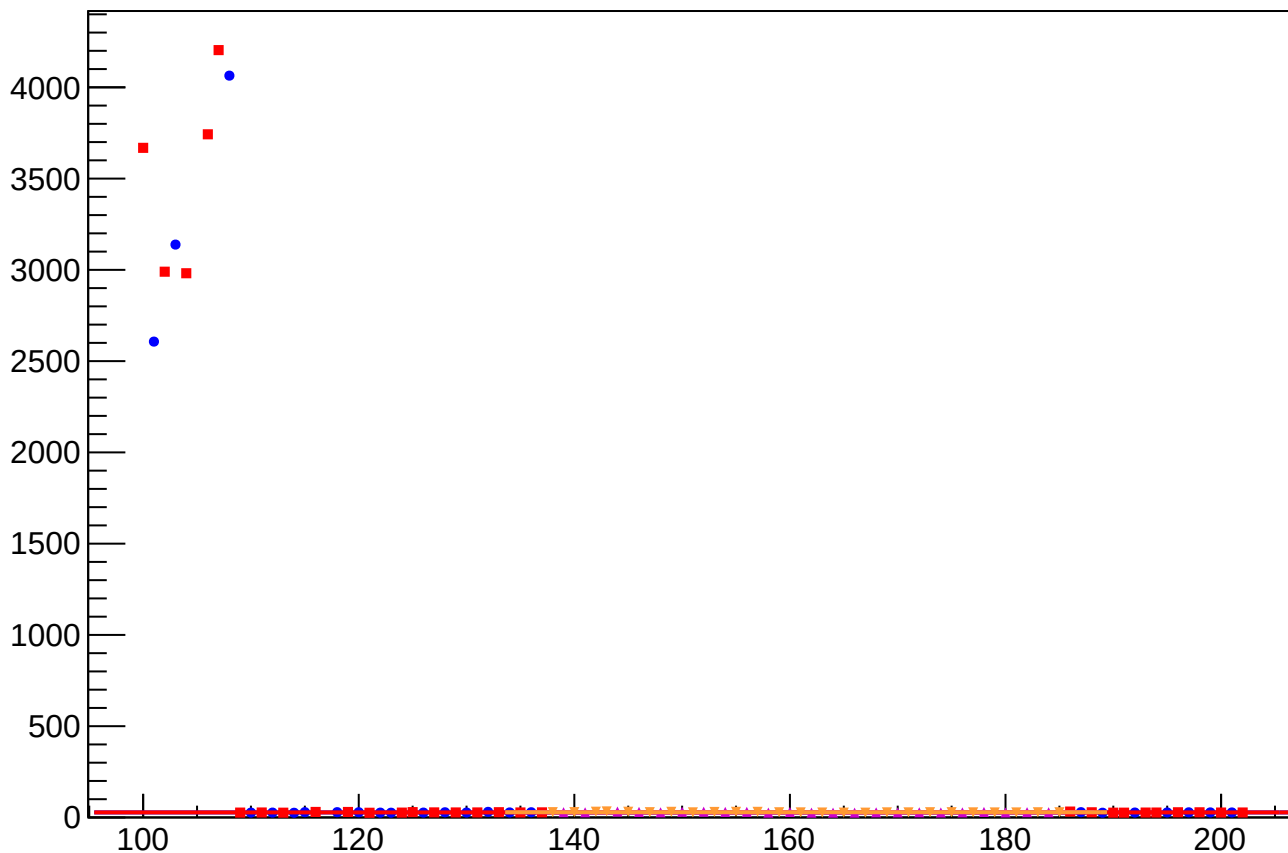
Right: 9.526+/-5.977 χ^2/NDF : 49.4/52

In: 2.854+/-5.427 χ^2/NDF : 52.5/46

Out: -5.554+/-5.182 χ^2/NDF : 59.2/53

All: -1.544+/-3.748 χ^2/NDF : 112.9/100

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 27.612 $\pm$ 0.006 χ^2 /NDF: 3034416.2/23

Left Out: 28.694 $\pm$ 0.005 χ^2 /NDF: 110466.9/24

Right Out: 27.649 $\pm$ 0.006 χ^2 /NDF: 3502501.2/28

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

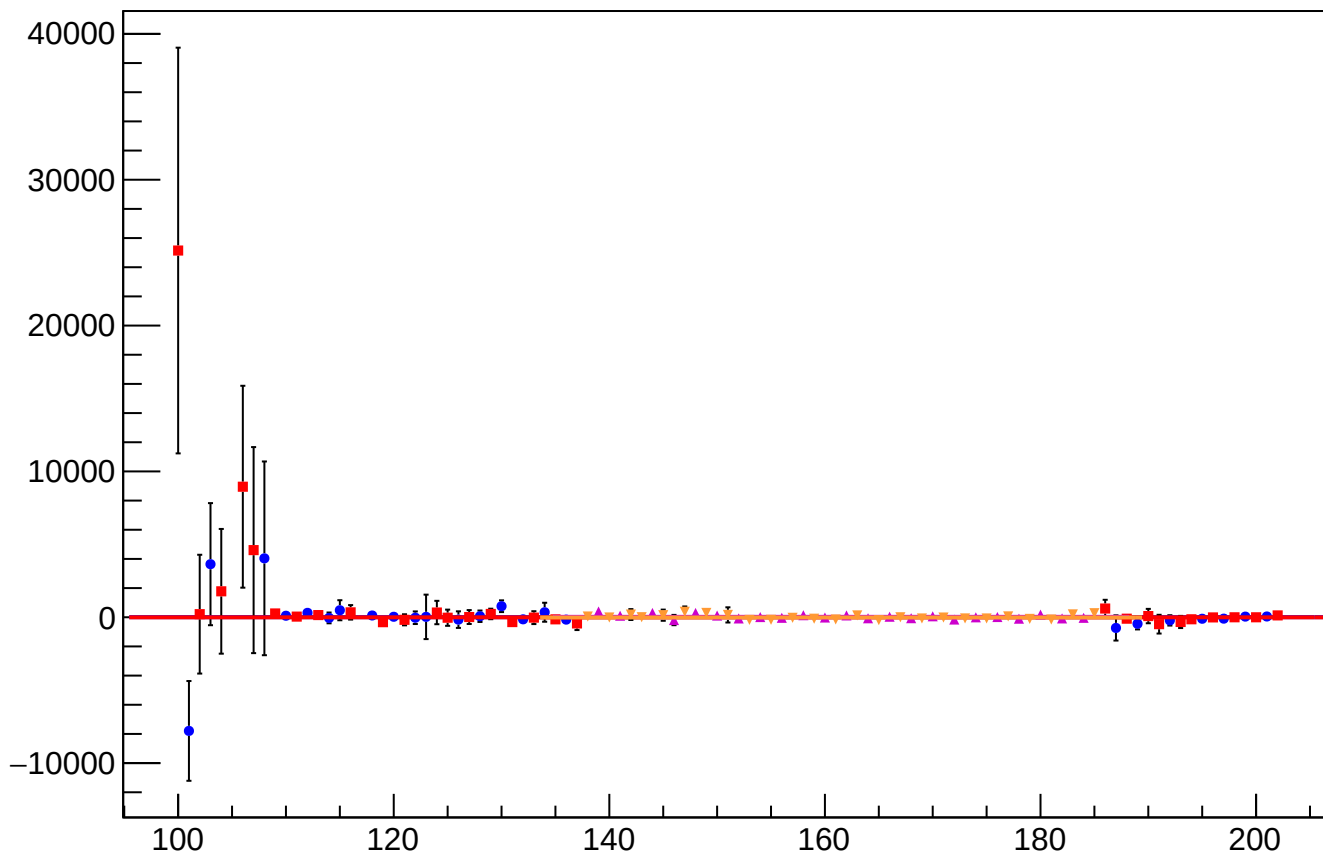
Right: 27.632 $\pm$ 0.004 χ^2 /NDF: 6536936.5/52

In: 28.269 $\pm$ 0.004 χ^2 /NDF: 3176420.9/46

Out: 28.273 $\pm$ 0.004 χ^2 /NDF: 3632520.1/53

All: 28.271 $\pm$ 0.003 χ^2 /NDF: 6808941.6/100

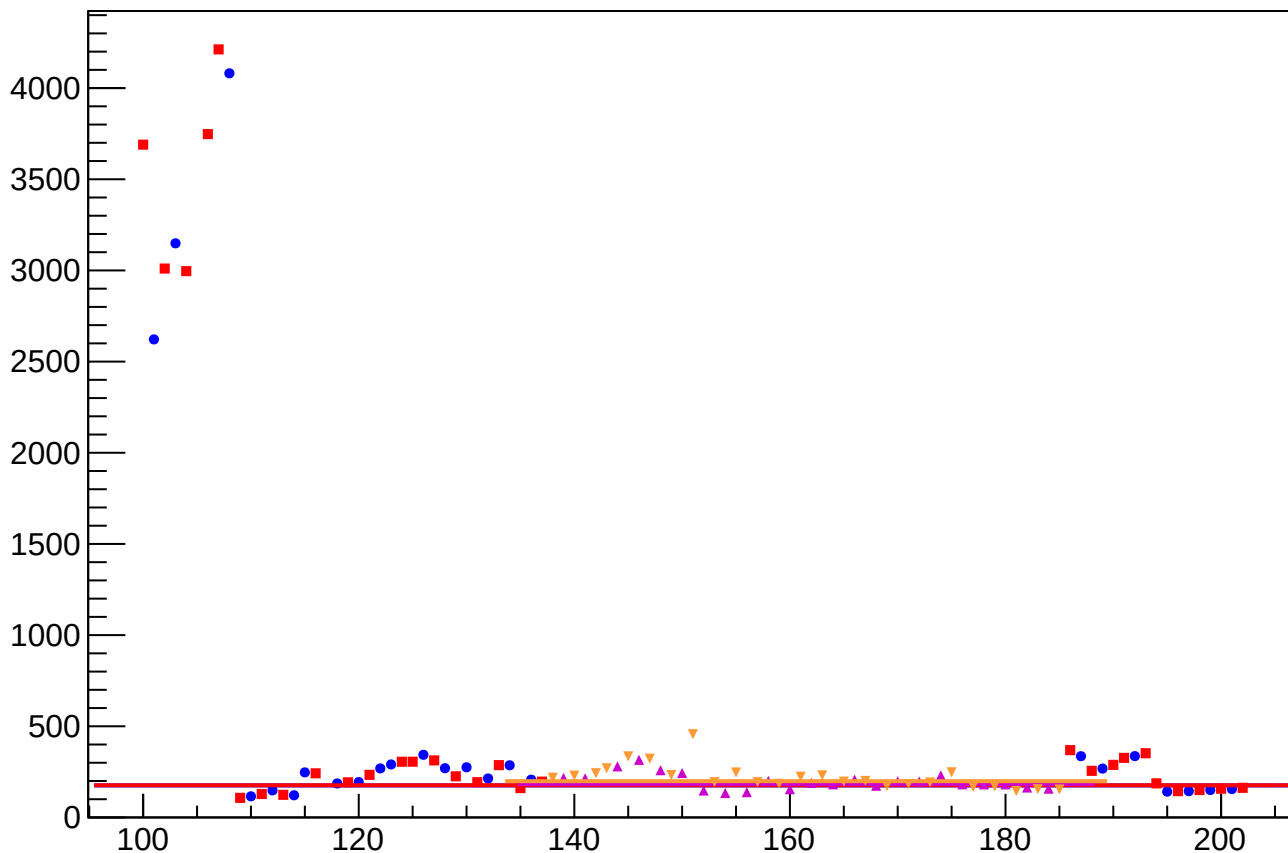
asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 8.323+/-58.494 χ^2/NDF : 17.1/23
 Left Out: -13.878+/-48.155 χ^2/NDF : 8.8/24
 Right Out: -5.179+/-55.187 χ^2/NDF : 15.8/28
 Left In: 27.286+/-45.907 χ^2/NDF : 7.5/22

Left: 7.688+/-33.228 χ^2/NDF : 16.7/47
 Right: 1.180+/-40.141 χ^2/NDF : 32.9/52
 In: 20.058+/-36.113 χ^2/NDF : 24.7/46
 Out: -10.118+/-36.284 χ^2/NDF : 24.6/53
 All: 5.042+/-25.596 χ^2/NDF : 49.6/100

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 175.538 $\pm$ 0.041 χ^2 /NDF: 4478446.4/23

Left Out: 198.997 $\pm$ 0.034 χ^2 /NDF: 1877636.0/24

Right Out: 176.375 $\pm$ 0.039 χ^2 /NDF: 5324856.0/28

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

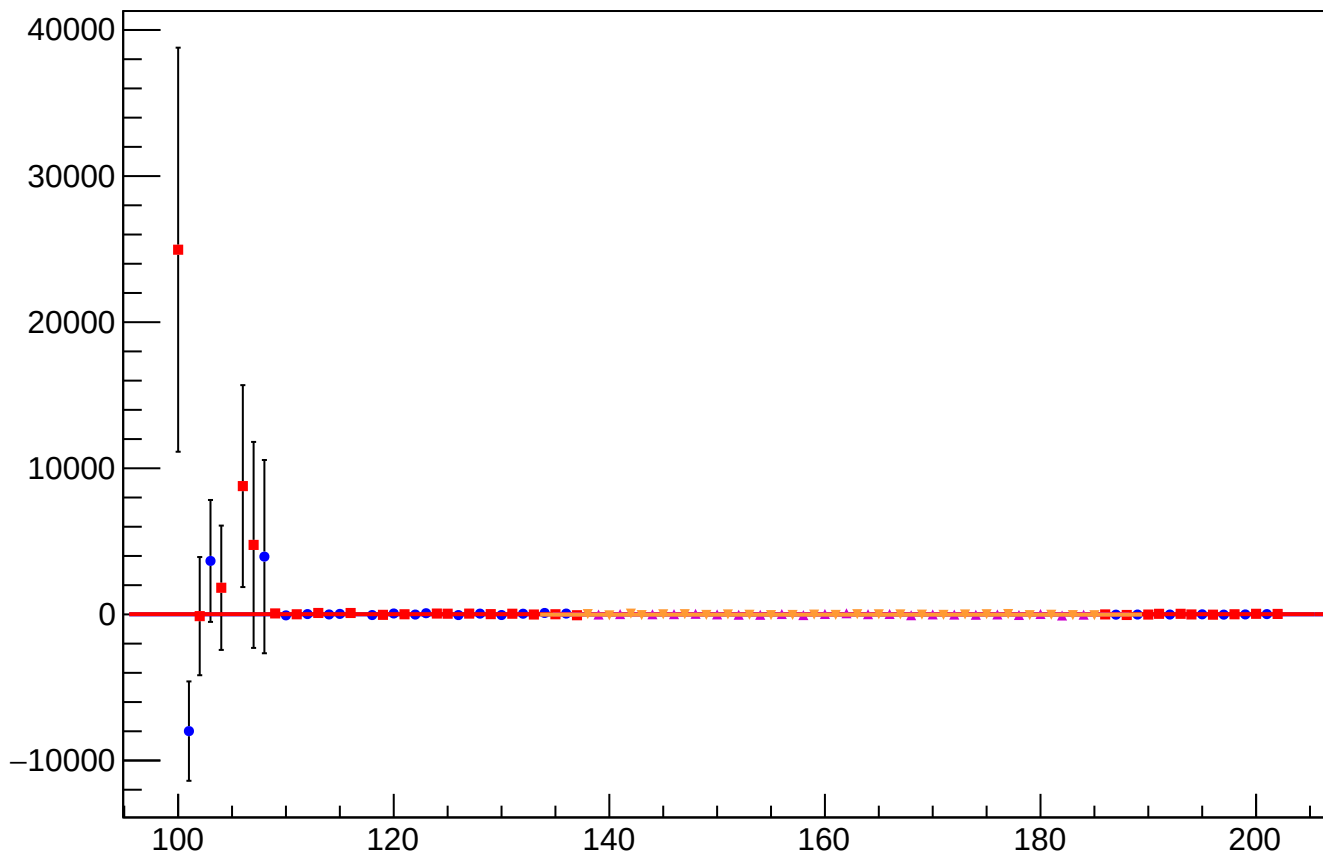
Right: 175.981 $\pm$ 0.028 χ^2 /NDF: 9803519.1/52

In: 180.429 $\pm$ 0.026 χ^2 /NDF: 5913383.9/46

Out: 189.218 $\pm$ 0.026 χ^2 /NDF: 7393271.4/53

All: 184.803 $\pm$ 0.018 χ^2 /NDF: 13365605.8/100

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 3.546+/-8.776 χ^2/NDF : 23.9/23

Left Out: -15.829+/-6.733 χ^2/NDF : 16.5/24

Right Out: 16.484+/-8.172 χ^2/NDF : 24.5/28

Left In: -0.498+/-6.937 χ^2/NDF : 26.1/22

Left: -8.392+/-4.831 χ^2/NDF : 45.1/47

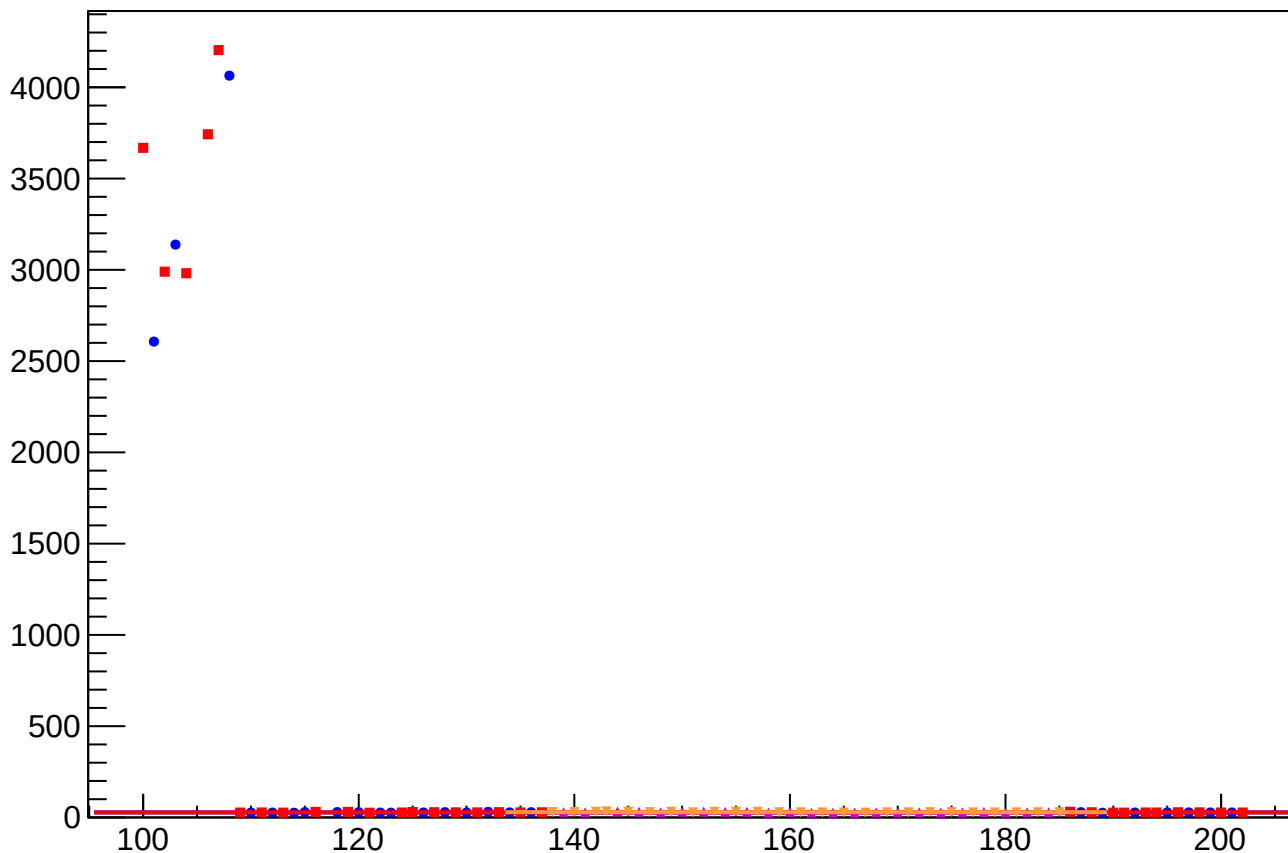
Right: 10.476+/-5.981 χ^2/NDF : 49.5/52

In: 1.057+/-5.442 χ^2/NDF : 50.1/46

Out: -2.763+/-5.197 χ^2/NDF : 50.3/53

All: -0.941+/-3.758 χ^2/NDF : 100.6/100

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 27.624 $\pm$ 0.006 χ^2 /NDF: 3036573.1/23

Left Out: 28.814 $\pm$ 0.005 χ^2 /NDF: 122153.6/24

Right Out: 27.666 $\pm$ 0.006 χ^2 /NDF: 3500718.6/28

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

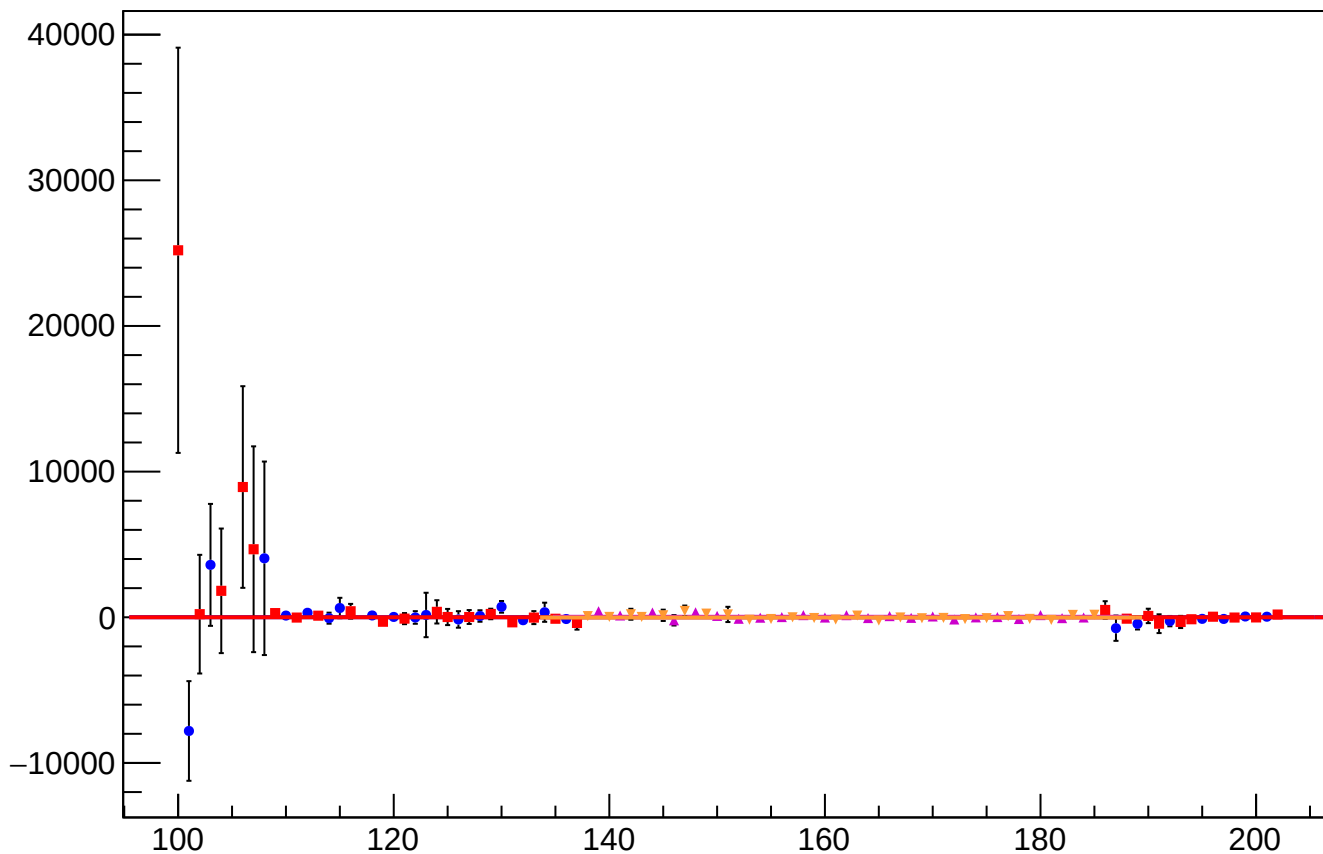
Right: 27.646 $\pm$ 0.004 χ^2 /NDF: 6537315.5/52

In: 28.346 $\pm$ 0.004 χ^2 /NDF: 3186843.2/46

Out: 28.350 $\pm$ 0.004 χ^2 /NDF: 3646408.0/53

All: 28.348 $\pm$ 0.003 χ^2 /NDF: 6833251.6/100

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs Slug, Sign Corrected



Right In: 6.418+/-58.948 χ^2/NDF : 17.5/23

Left Out: -13.966+/-48.735 χ^2/NDF : 8.1/24

Right Out: 0.616+/-55.648 χ^2/NDF : 15.3/28

Left In: 31.477+/-46.483 χ^2/NDF : 7.8/22

Left: 9.830+/-33.637 χ^2/NDF : 16.4/47

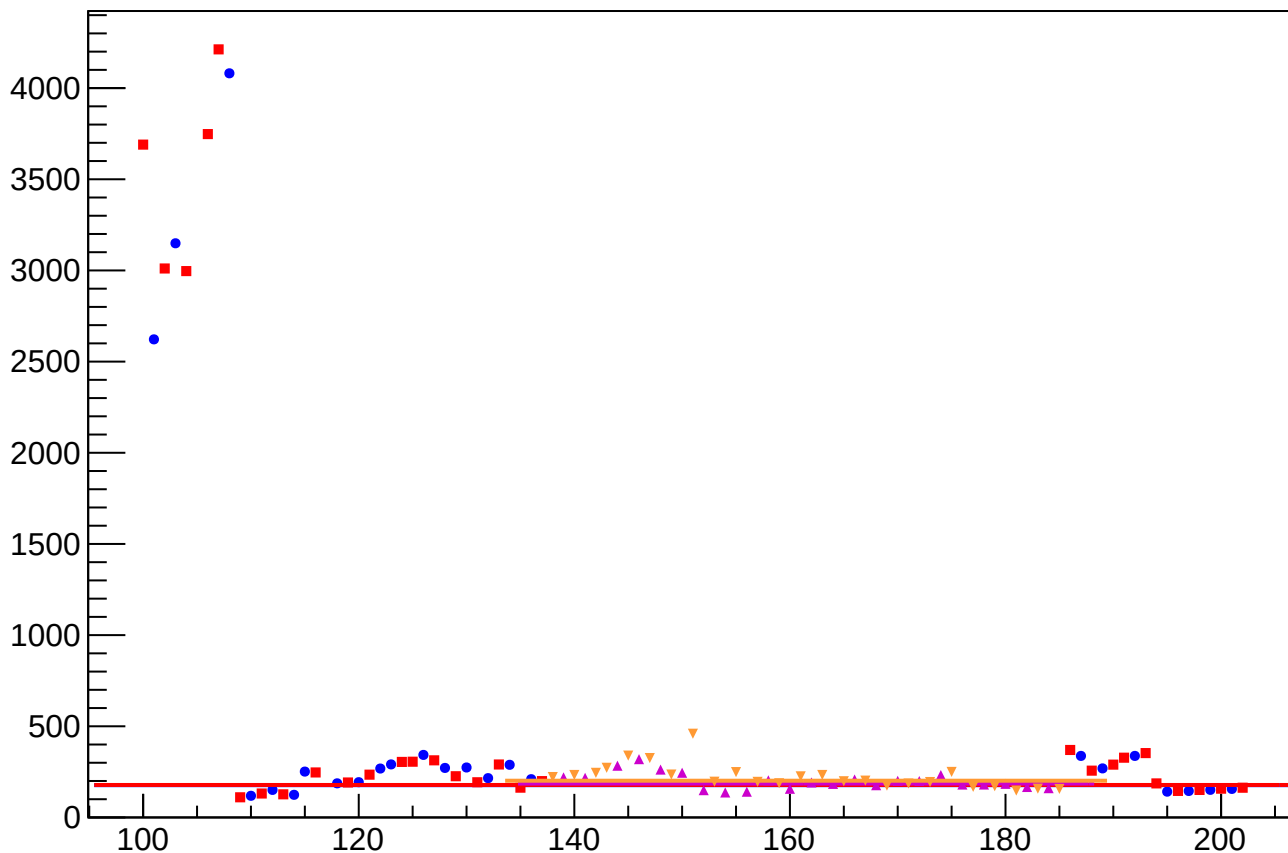
Right: 3.350+/-40.466 χ^2/NDF : 32.9/52

In: 21.869+/-36.500 χ^2/NDF : 25.5/46

Out: -7.636+/-36.663 χ^2/NDF : 23.5/53

All: 7.182+/-25.867 χ^2/NDF : 49.3/100

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 177.059+/-0.042 χ^2/NDF : 4444512.0/23

Left Out: 201.503+/-0.034 χ^2/NDF : 1854905.1/24

Right Out: 178.141+/-0.039 χ^2/NDF : 5262336.6/28

Left In: 185.878+/-0.033 χ^2/NDF : 1380877.6/22

Left: 193.321+/-0.024 χ^2/NDF : 3343425.2/47

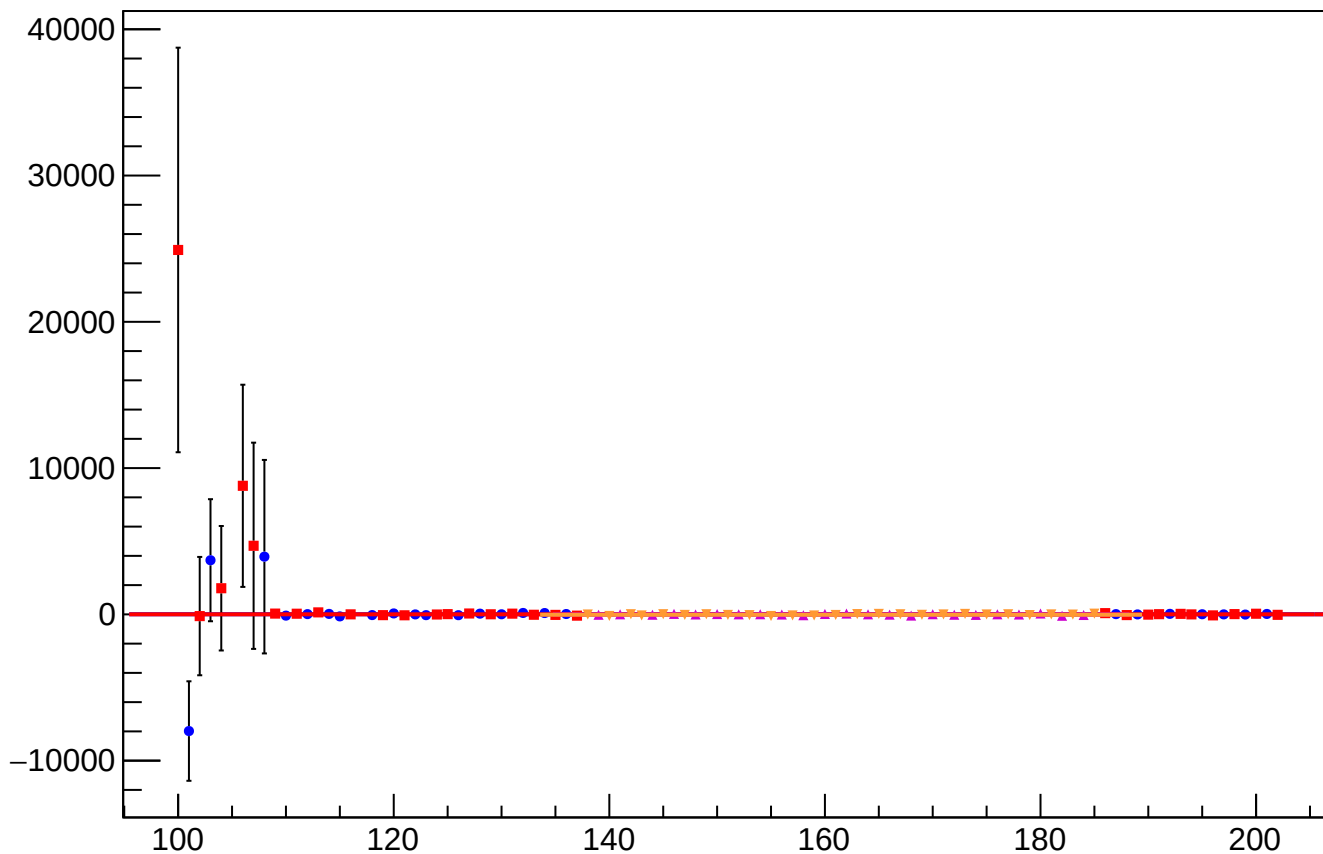
Right: 177.631+/-0.029 χ^2/NDF : 9707205.1/52

In: 182.497+/-0.026 χ^2/NDF : 5852996.5/46

Out: 191.362+/-0.026 χ^2/NDF : 7316728.5/53

All: 186.910+/-0.018 χ^2/NDF : 13228455.7/100

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 8.694+/-10.694 χ^2/NDF : 21.5/23

Left Out: -24.144+/-8.076 χ^2/NDF : 24.9/24

Right Out: 4.445+/-9.948 χ^2/NDF : 31.7/28

Left In: -5.924+/-8.340 χ^2/NDF : 21.0/22

Left: -15.326+/-5.802 χ^2/NDF : 48.4/47

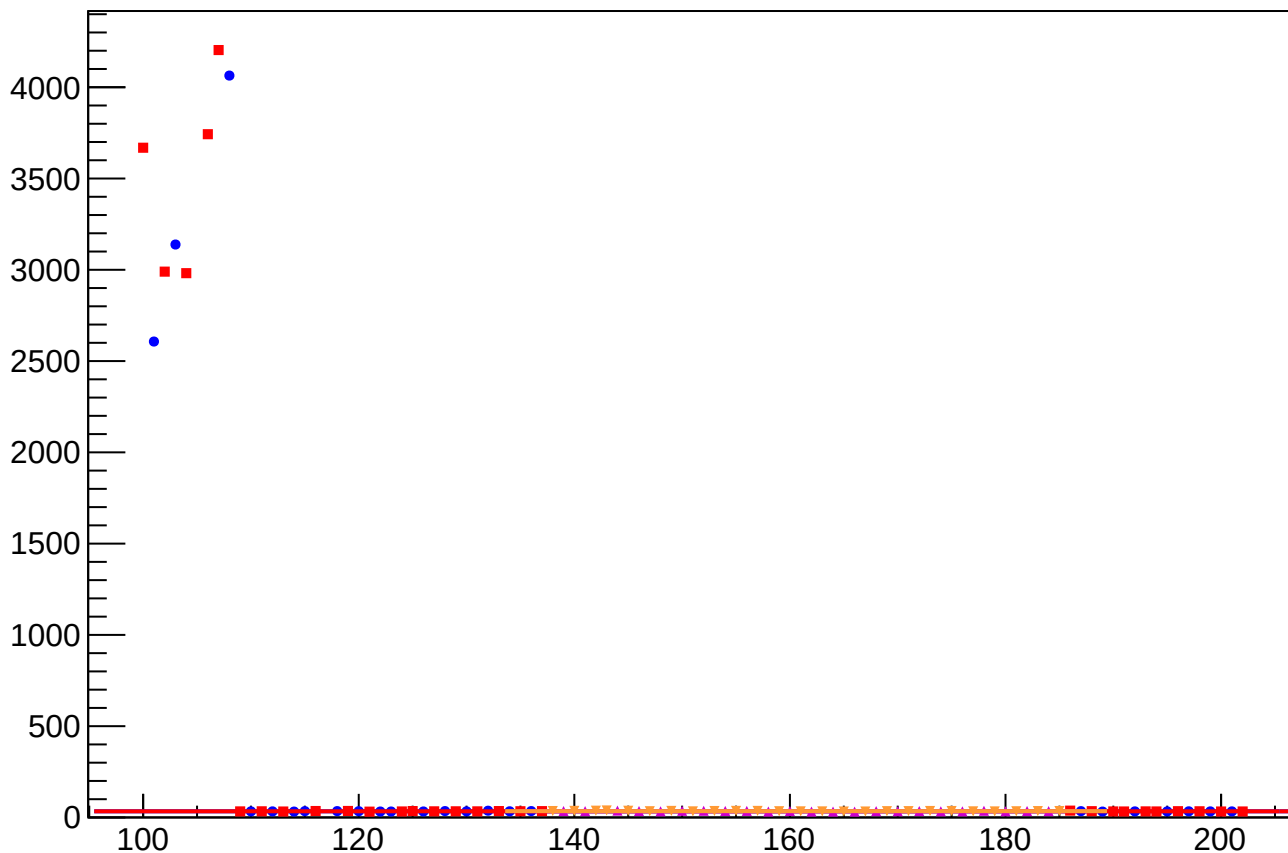
Right: 6.416+/-7.284 χ^2/NDF : 53.2/52

In: -0.396+/-6.577 χ^2/NDF : 43.7/46

Out: -12.786+/-6.270 χ^2/NDF : 61.5/53

All: -6.886+/-4.538 χ^2/NDF : 107.0/100

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 33.688 $\pm$ 0.008 χ^2 /NDF: 3011929.4/23

Left Out: 34.617 $\pm$ 0.006 χ^2 /NDF: 57868.4/24

Right Out: 33.728 $\pm$ 0.007 χ^2 /NDF: 3465783.6/28

Left In: 34.682 $\pm$ 0.006 χ^2 /NDF: 59834.3/22

Left: 34.649 $\pm$ 0.004 χ^2 /NDF: 117764.0/47

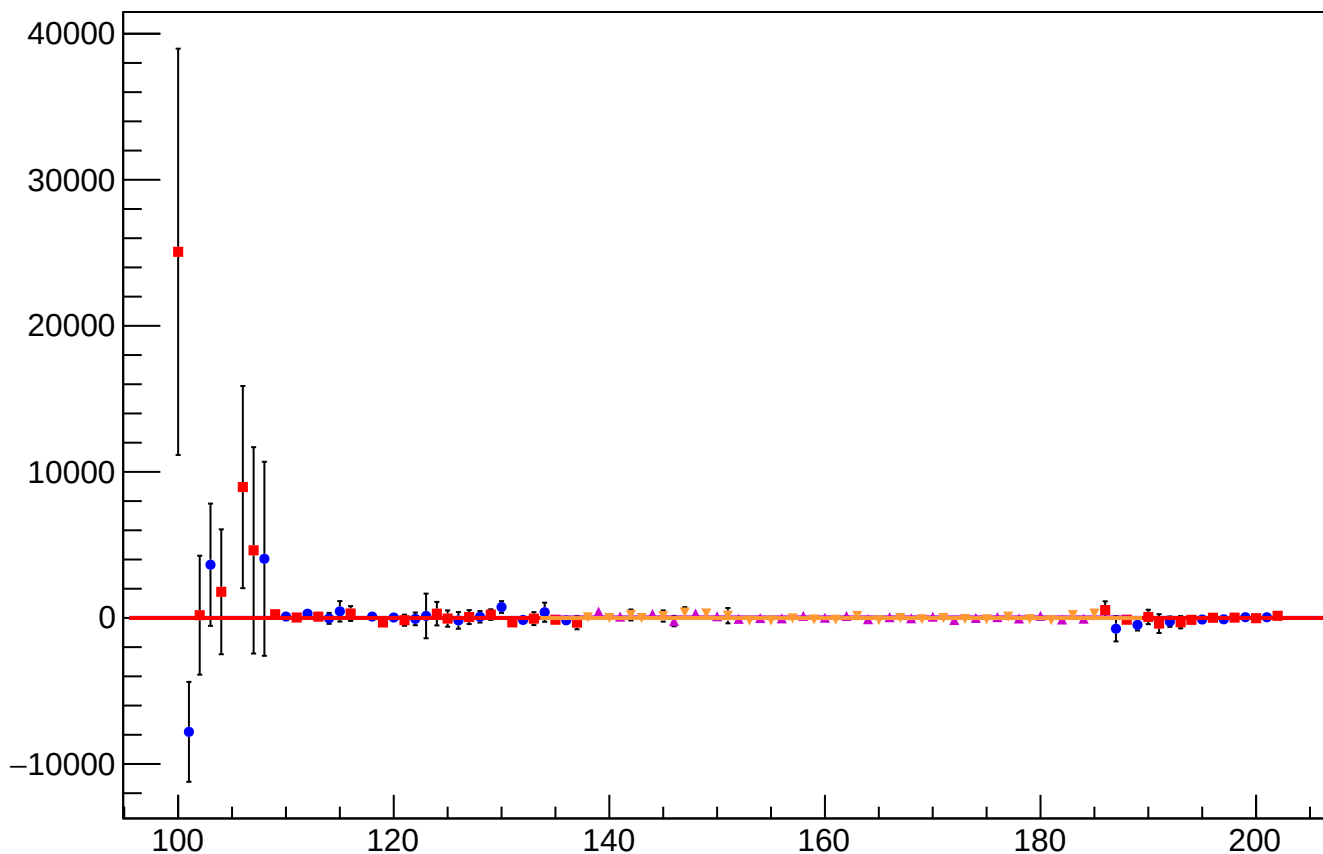
Right: 33.709 $\pm$ 0.005 χ^2 /NDF: 6477727.9/52

In: 34.306 $\pm$ 0.005 χ^2 /NDF: 3082505.2/46

Out: 34.264 $\pm$ 0.004 χ^2 /NDF: 3533295.9/53

All: 34.284 $\pm$ 0.003 χ^2 /NDF: 6615843.7/100

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: 2.685+/-58.761 χ^2/NDF : 17.1/23

Left Out: -7.558+/-48.662 χ^2/NDF : 8.8/24

Right Out: -3.257+/-55.411 χ^2/NDF : 13.8/28

Left In: 34.977+/-46.421 χ^2/NDF : 7.1/22

Left: 14.712+/-33.589 χ^2/NDF : 16.3/47

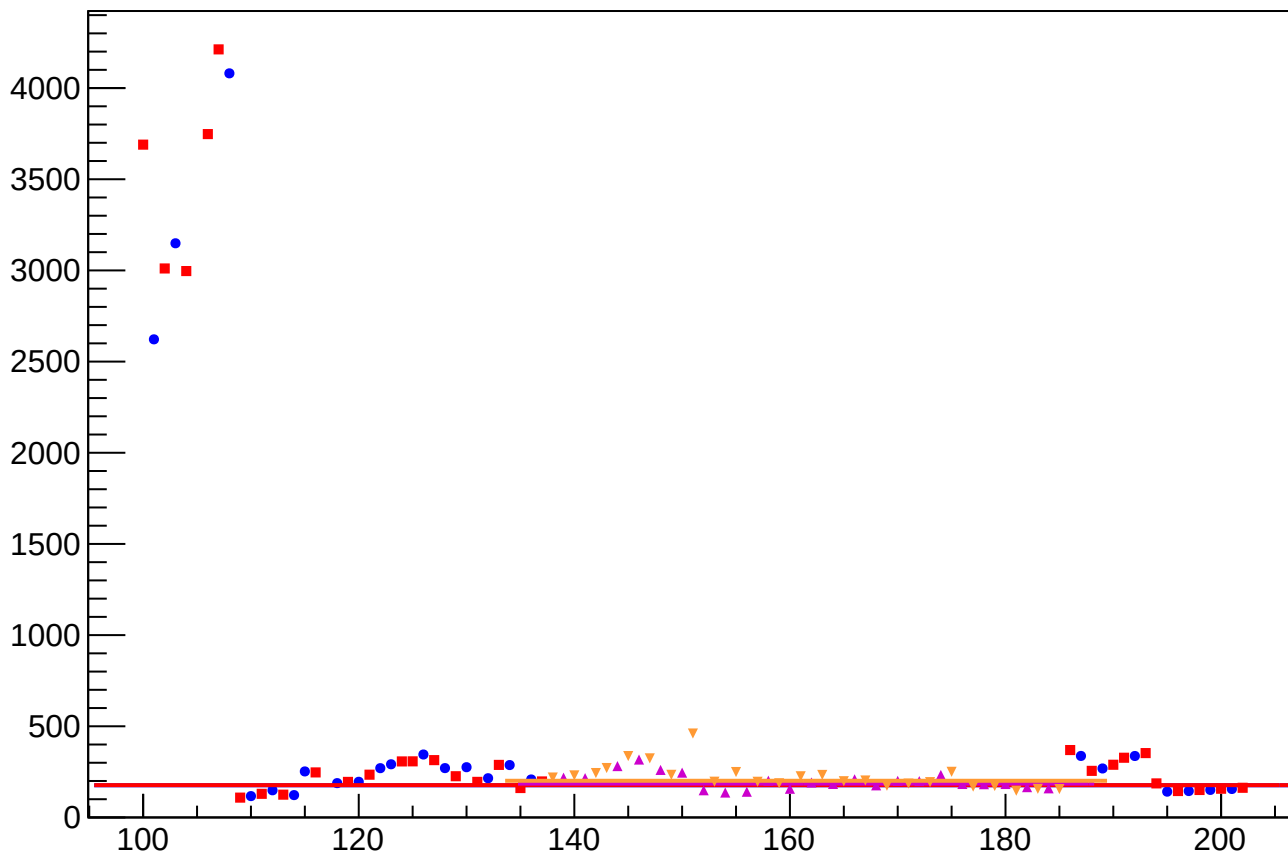
Right: -0.460+/-40.314 χ^2/NDF : 30.9/52

In: 22.569+/-36.426 χ^2/NDF : 24.4/46

Out: -5.685+/-36.564 χ^2/NDF : 22.5/53

All: 8.495+/-25.806 χ^2/NDF : 47.2/100

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 176.366 $\pm$ 0.042 χ^2 /NDF: 4474274.8/23

Left Out: 201.198 $\pm$ 0.034 χ^2 /NDF:1848437.4/24

Right Out: 177.154 $\pm$ 0.039 χ^2 /NDF: 5312854.0/28

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

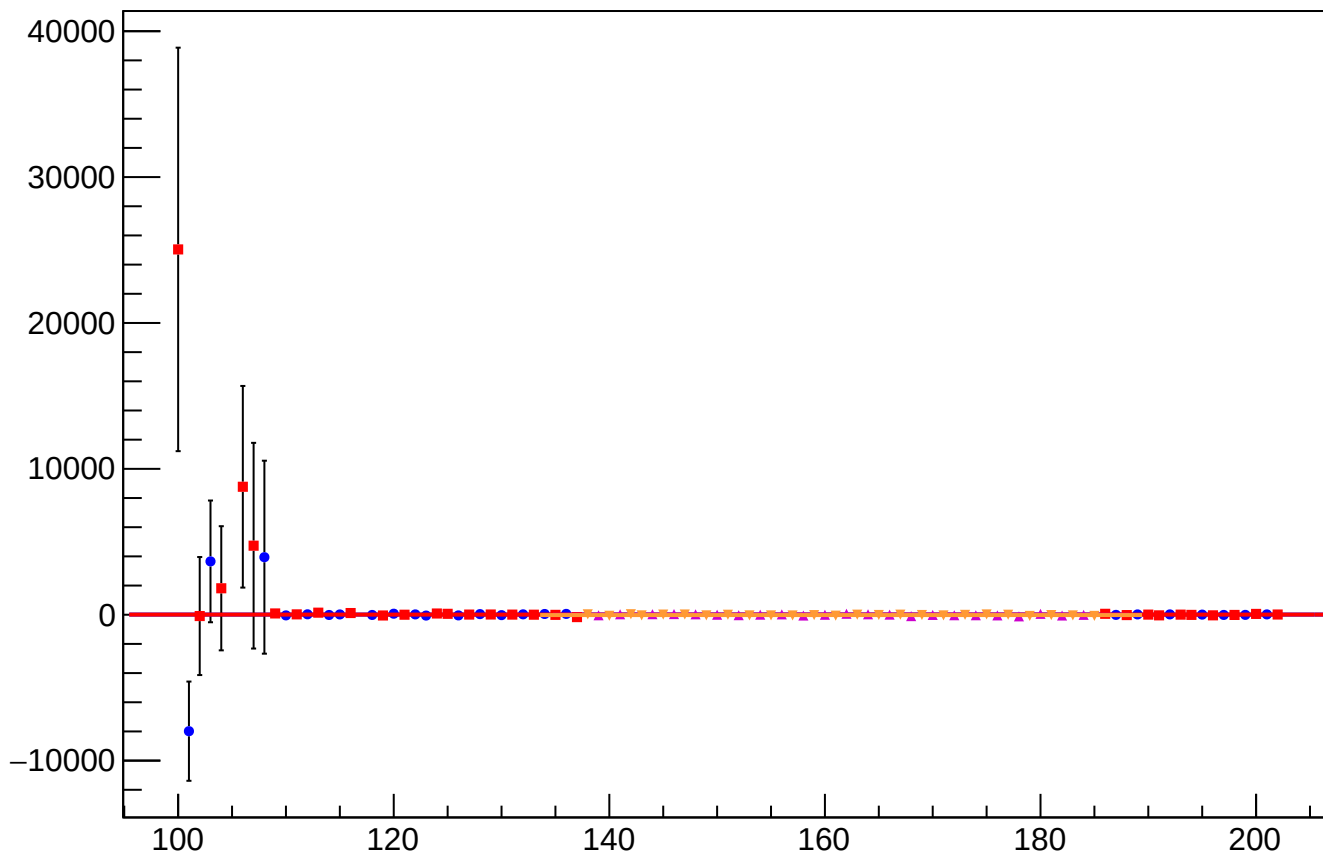
Right: 176.783 $\pm$ 0.029 χ^2 /NDF: 9787319.4/52

In: 182.068 $\pm$ 0.026 χ^2 /NDF:5876279.8/46

Out: 190.729 $\pm$ 0.026 χ^2 /NDF:7373902.1/53

All: 186.382 $\pm$ 0.018 χ^2 /NDF: 13306496.7/100

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 11.201+/-9.698 χ^2/NDF : 16.1/23

Left Out: -23.320+/-7.352 χ^2/NDF :18.3/24

Right Out: 10.055+/-9.021 χ^2/NDF : 36.1/28

Left In: -6.386+/-7.577 χ^2/NDF :38.7/22

Left: -15.108+/-5.276 χ^2/NDF : 59.6/47

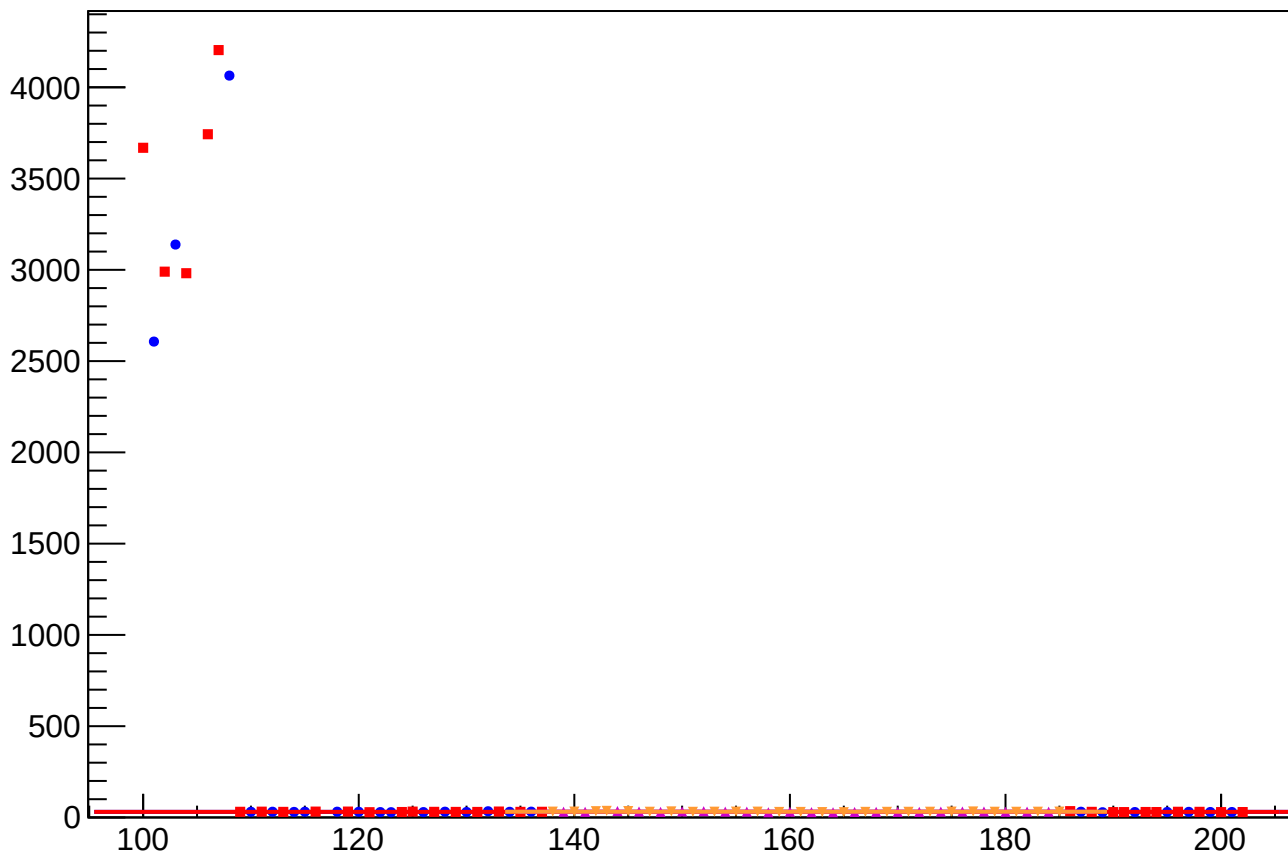
Right: 10.587+/-6.605 χ^2/NDF : 52.3/52

In: 0.281+/-5.970 χ^2/NDF :56.9/46

Out: -10.001+/-5.699 χ^2/NDF :62.7/53

All: -5.099+/-4.122 χ^2/NDF : 121.1/100

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 30.539 $\pm$ 0.007 χ^2 /NDF: 3026142.2/23

Left Out: 31.488 $\pm$ 0.005 χ^2 /NDF: 81938.2/24

Right Out: 30.561 $\pm$ 0.006 χ^2 /NDF: 3480804.5/28

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

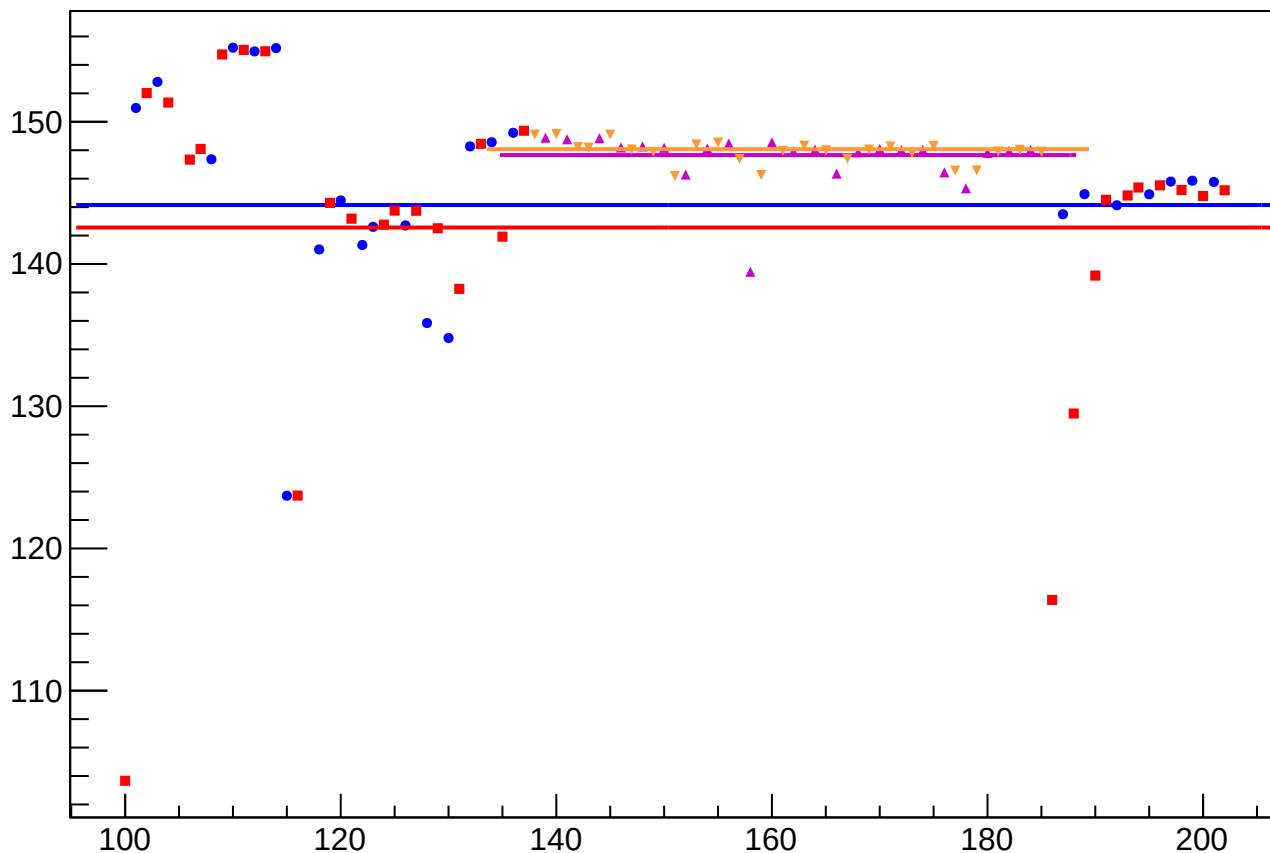
Right: 30.551 $\pm$ 0.005 χ^2 /NDF: 6506952.2/52

In: 31.120 $\pm$ 0.004 χ^2 /NDF: 3125525.5/46

Out: 31.118 $\pm$ 0.004 χ^2 /NDF: 3575450.8/53

All: 31.119 $\pm$ 0.003 χ^2 /NDF: 6700976.4/100

yield_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: 144.146 $\pm$ 0.000 χ^2 /NDF: 3477145944.2/23

Left Out: 148.074 $\pm$ 0.000 χ^2 /NDF: 65673678.9/24

Right Out: 142.565 $\pm$ 0.000 χ^2 /NDF: 7377403551.1/28

Left In: 147.660 $\pm$ 0.000 χ^2 /NDF: 343892338.9/22

Left: 147.875 $\pm$ 0.000 χ^2 /NDF: 417177881.5/47

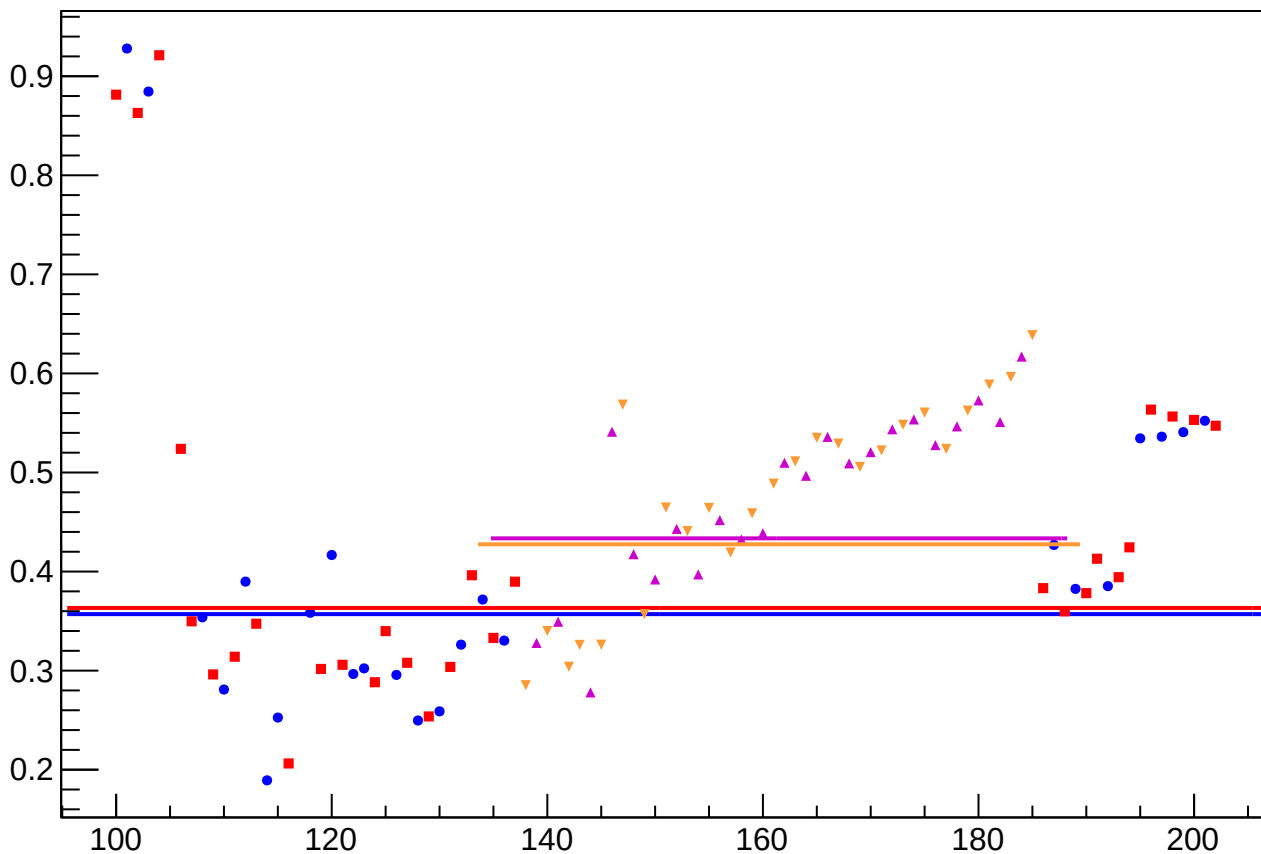
Right: 143.296 $\pm$ 0.000 χ^2 /NDF: 10955774674.8/52

In: 146.018 $\pm$ 0.000 χ^2 /NDF: 4316465779.7/46

Out: 145.396 $\pm$ 0.000 χ^2 /NDF: 8809323089.8/53

All: 145.690 $\pm$ 0.000 χ^2 /NDF: 13158794338.9/100

yield_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 0.357+/-0.000 χ^2/NDF : 2161651.1/23

Left Out: 0.428+/-0.000 χ^2/NDF :1892802.8/24

Right Out: 0.363+/-0.000 χ^2/NDF : 2147107.5/28

Left In: 0.434+/-0.000 χ^2/NDF :1479367.0/22

Left: 0.430+/-0.000 χ^2/NDF : 3375366.2/47

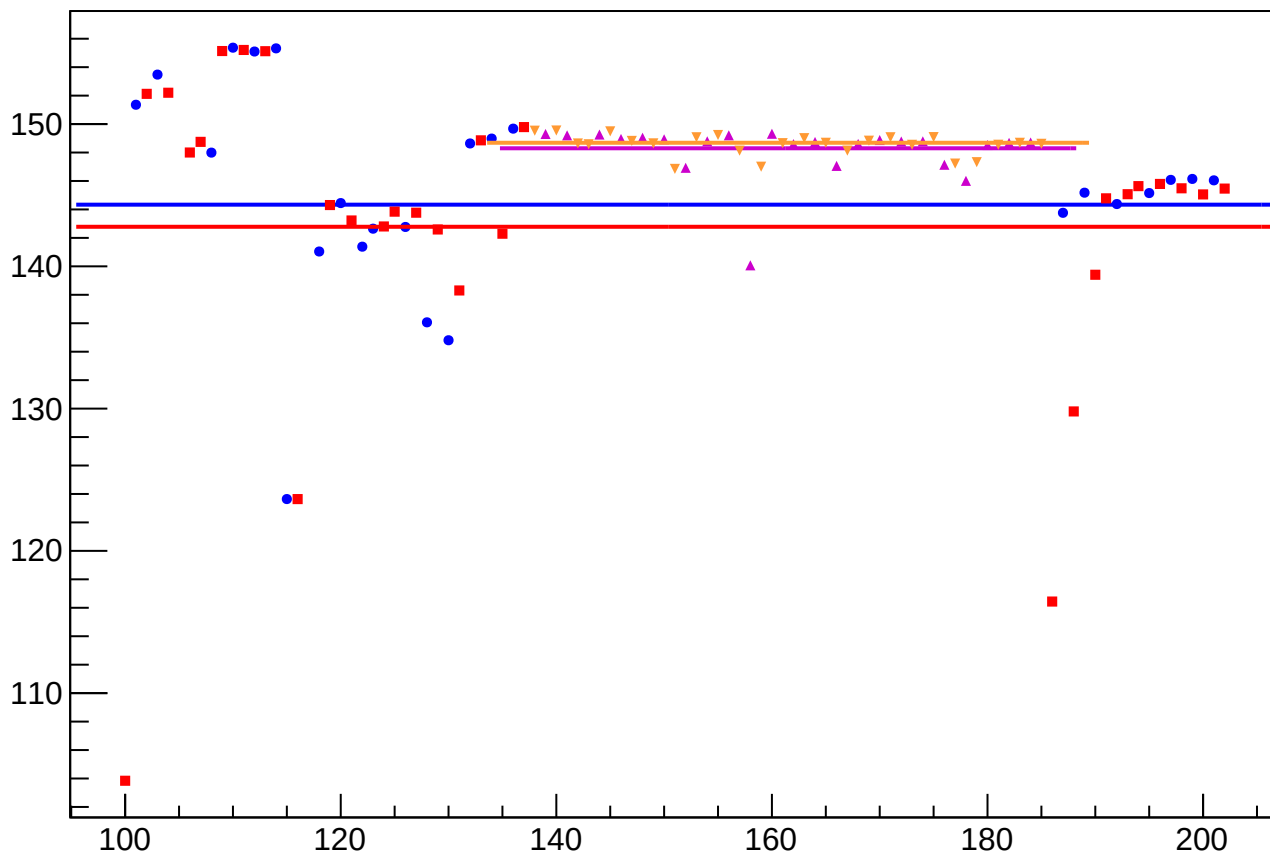
Right: 0.360+/-0.000 χ^2/NDF : 4311914.5/52

In: 0.398+/-0.000 χ^2/NDF :4110312.0/46

Out: 0.396+/-0.000 χ^2/NDF :4411628.3/53

All: 0.397+/-0.000 χ^2/NDF : 8522318.8/100

yield_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: 144.335 $\pm$ 0.000 χ^2 /NDF: 3524439596.2/23

Left Out: 148.687 $\pm$ 0.000 χ^2 /NDF: 52285197.5/24

Right Out: 142.781 $\pm$ 0.000 χ^2 /NDF: 7324604314.2/28

Left In: 148.298 $\pm$ 0.000 χ^2 /NDF: 332527463.6/22

Left: 148.500 $\pm$ 0.000 χ^2 /NDF: 391414535.1/47

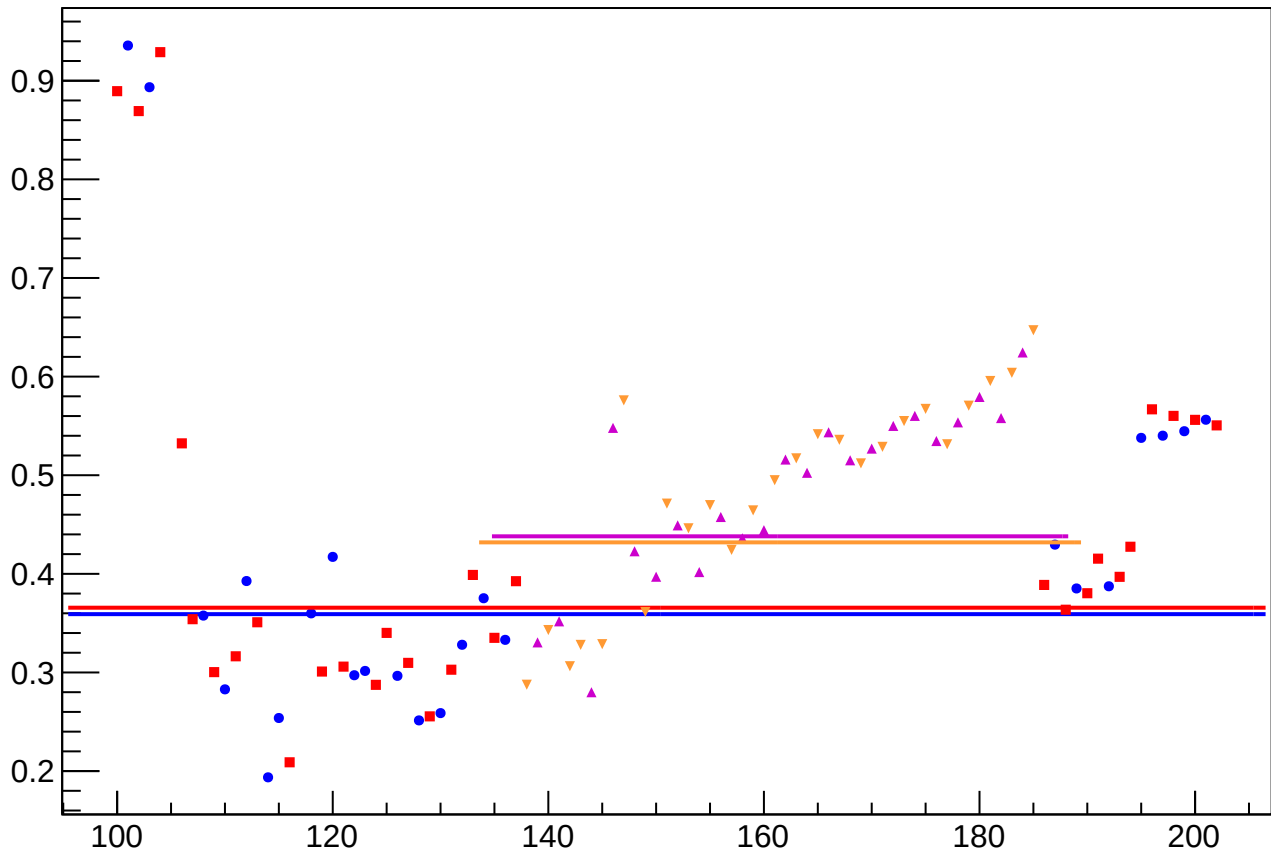
Right: 143.500 $\pm$ 0.000 χ^2 /NDF: 10945589496.3/52

In: 146.437 $\pm$ 0.000 χ^2 /NDF: 4476680823.5/46

Out: 145.804 $\pm$ 0.000 χ^2 /NDF: 8920424590.9/53

All: 146.103 $\pm$ 0.000 χ^2 /NDF: 13430599682.0/100

yield_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 0.359+/-0.000 χ^2/NDF : 2166805.8/23

Left Out: 0.432+/-0.000 χ^2/NDF :1924979.0/24

Right Out: 0.366+/-0.000 χ^2/NDF : 2150829.7/28

Left In: 0.438+/-0.000 χ^2/NDF :1504635.6/22

Left: 0.435+/-0.000 χ^2/NDF : 3432903.3/47

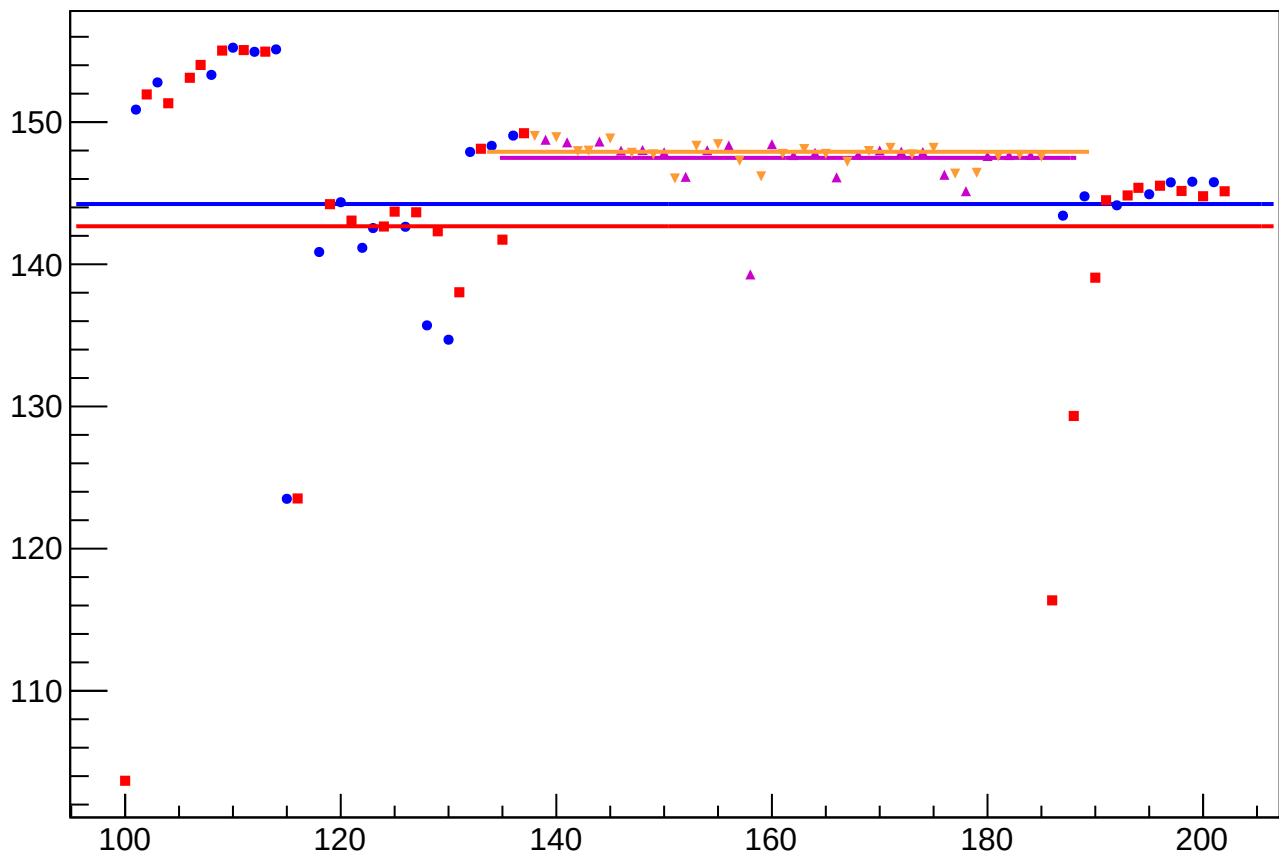
Right: 0.363+/-0.000 χ^2/NDF : 4321056.7/52

In: 0.401+/-0.000 χ^2/NDF :4163031.6/46

Out: 0.400+/-0.000 χ^2/NDF :4464200.6/53

All: 0.400+/-0.000 χ^2/NDF : 8627566.4/100

yield_bcm_an_us_mean vs Slug, Sign Corrected



Right In: 144.238 $\pm$ 0.000 χ^2 /NDF: 3685226561.2/23

Left Out: 147.912 $\pm$ 0.000 χ^2 /NDF: 64463426.1/24

Right Out: 142.673 $\pm$ 0.000 χ^2 /NDF: 775888887.5/28

Left In: 147.483 $\pm$ 0.000 χ^2 /NDF: 342674720.4/22

Left: 147.706 $\pm$ 0.000 χ^2 /NDF: 415263003.2/47

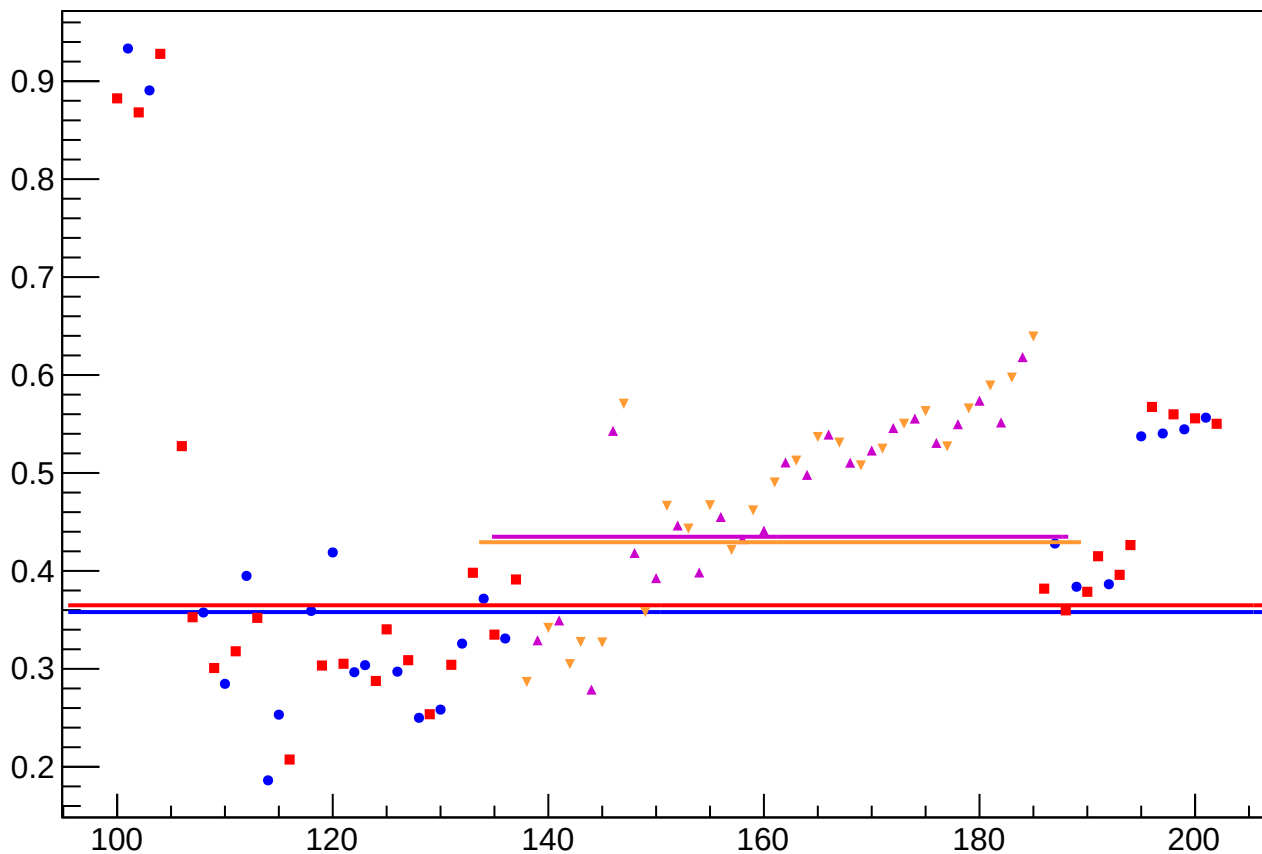
Right: 143.397 $\pm$ 0.000 χ^2 /NDF: 11542489125.0/52

In: 145.967 $\pm$ 0.000 χ^2 /NDF: 4447641639.8/46

Out: 145.366 $\pm$ 0.000 χ^2 /NDF: 9048458061.1/53

All: 145.650 $\pm$ 0.000 χ^2 /NDF: 13526656812.0/100

yield_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 0.358 $\pm$ 0.000 χ^2/NDF : 2189471.3/23

Left Out: 0.429 $\pm$ 0.000 χ^2/NDF : 1891709.3/24

Right Out: 0.365 $\pm$ 0.000 χ^2/NDF : 2152153.1/28

Left In: 0.435 $\pm$ 0.000 χ^2/NDF : 1485915.1/22

Left: 0.432 $\pm$ 0.000 χ^2/NDF : 3380372.0/47

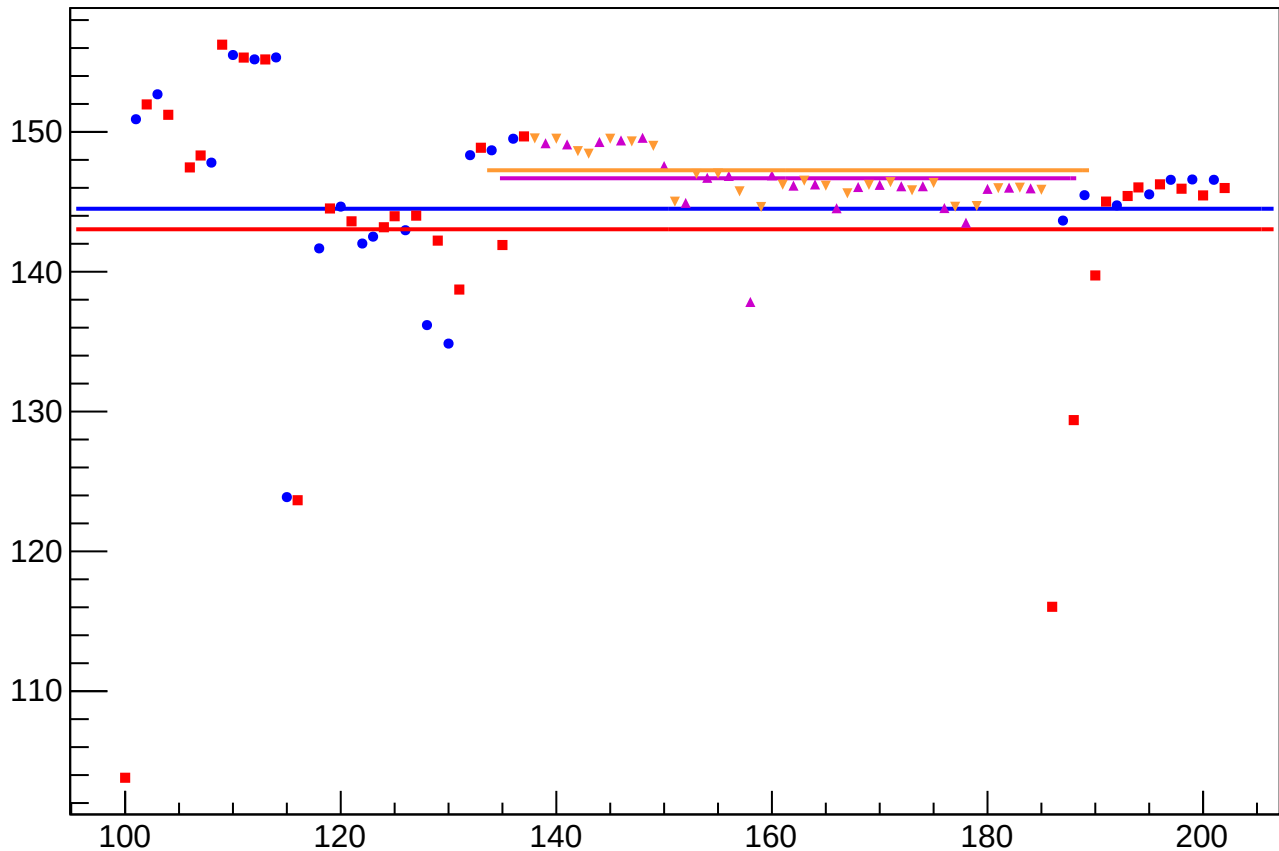
Right: 0.362 $\pm$ 0.000 χ^2/NDF : 4345464.9/52

In: 0.399 $\pm$ 0.000 χ^2/NDF : 4146437.0/46

Out: 0.398 $\pm$ 0.000 χ^2/NDF : 4414046.9/53

All: 0.398 $\pm$ 0.000 χ^2/NDF : 8560639.2/100

yield_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: 144.505 $\pm$ 0.000 χ^2/NDF : 3204721367.0/23

Left Out: 147.257 $\pm$ 0.000 χ^2/NDF : 261906278.3/24

Right Out: 143.037 $\pm$ 0.000 χ^2/NDF : 7087692350.6/28

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

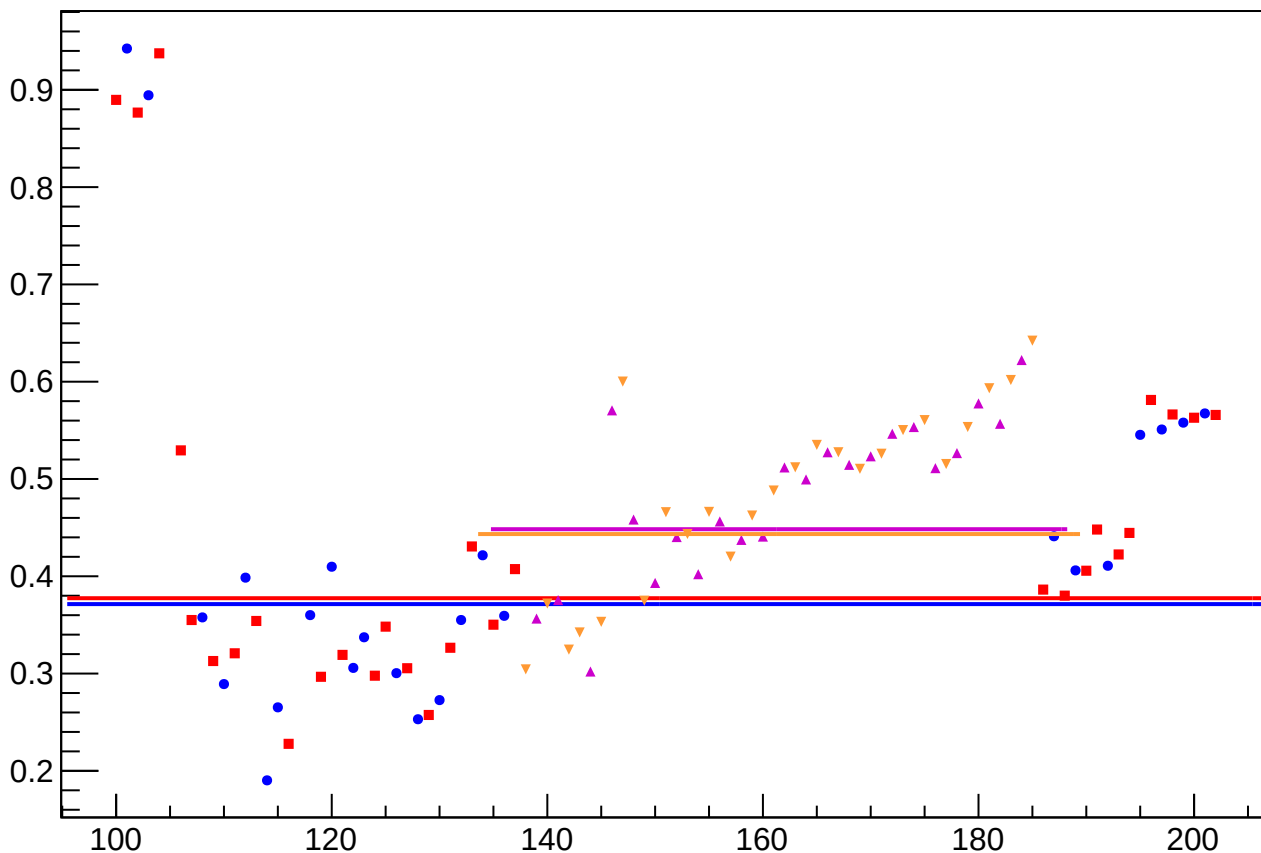
Right: 143.714 $\pm$ 0.000 χ^2/NDF : 10373012446.1/52

In: 145.680 $\pm$ 0.000 χ^2/NDF : 3937267774.2/46

Out: 145.221 $\pm$ 0.000 χ^2/NDF : 8096522218.0/53

All: 145.438 $\pm$ 0.000 χ^2/NDF : 12050447034.0/100

yield_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 0.371+/-0.000 χ^2/NDF : 2137426.5/23

Left Out: 0.443+/-0.000 χ^2/NDF :1480479.3/24

Right Out: 0.377+/-0.000 χ^2/NDF : 2100251.3/28

Left In: 0.448+/-0.000 χ^2/NDF :1120261.8/22

Left: 0.446+/-0.000 χ^2/NDF : 2602838.0/47

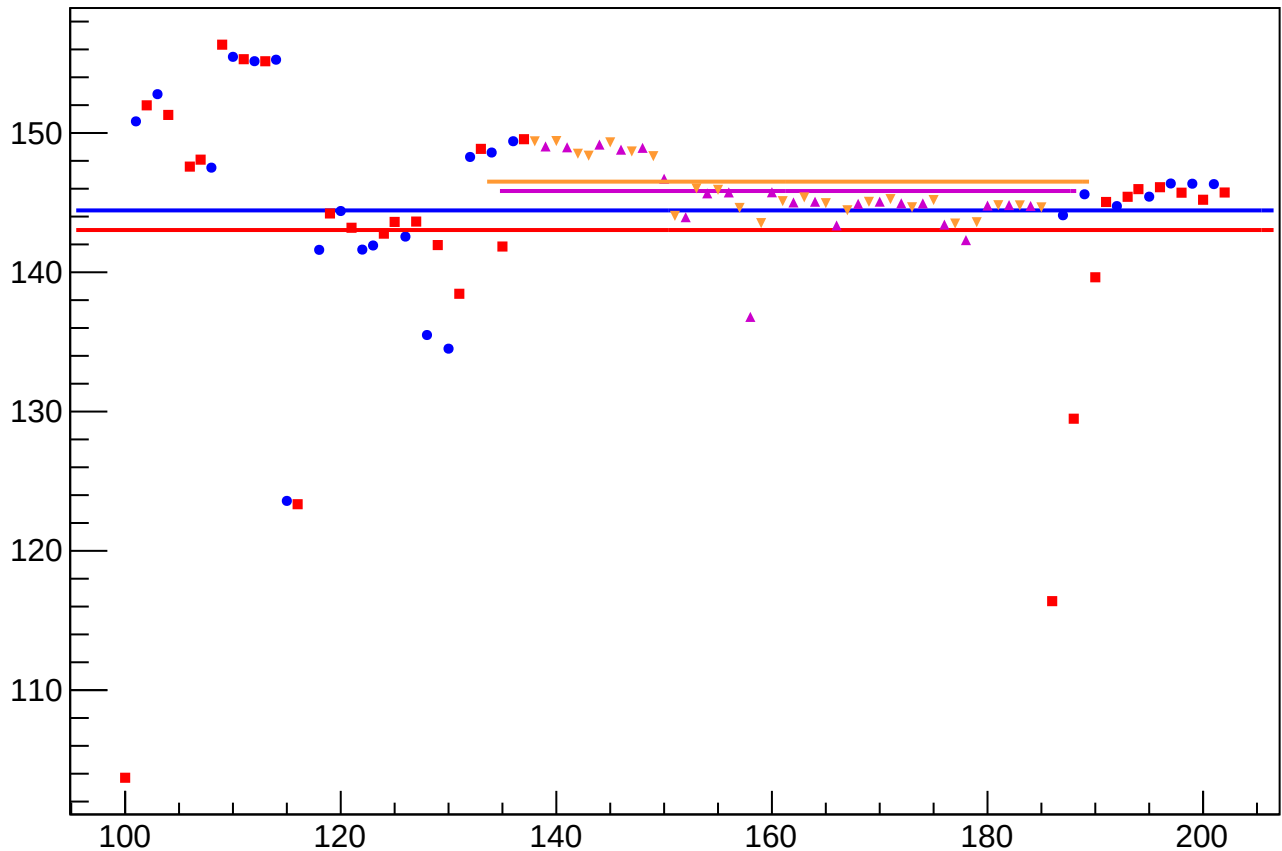
Right: 0.375+/-0.000 χ^2/NDF : 4240417.9/52

In: 0.413+/-0.000 χ^2/NDF :3700999.7/46

Out: 0.412+/-0.000 χ^2/NDF :3945378.3/53

All: 0.412+/-0.000 χ^2/NDF : 7646644.8/100

yield_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: 144.442 ± 0.000 $\chi^2/\text{NDF}: 3318707248.0/23$

Left Out: 146.508 ± 0.000 $\chi^2/\text{NDF}: 401248837.9/24$

Right Out: 143.033 ± 0.000 $\chi^2/\text{NDF}: 7049415479.4/28$

Left In: 145.834 ± 0.000 $\chi^2/\text{NDF}: 690172810.0/22$

Left: 146.184 ± 0.000 $\chi^2/\text{NDF}: 1110403123.5/47$

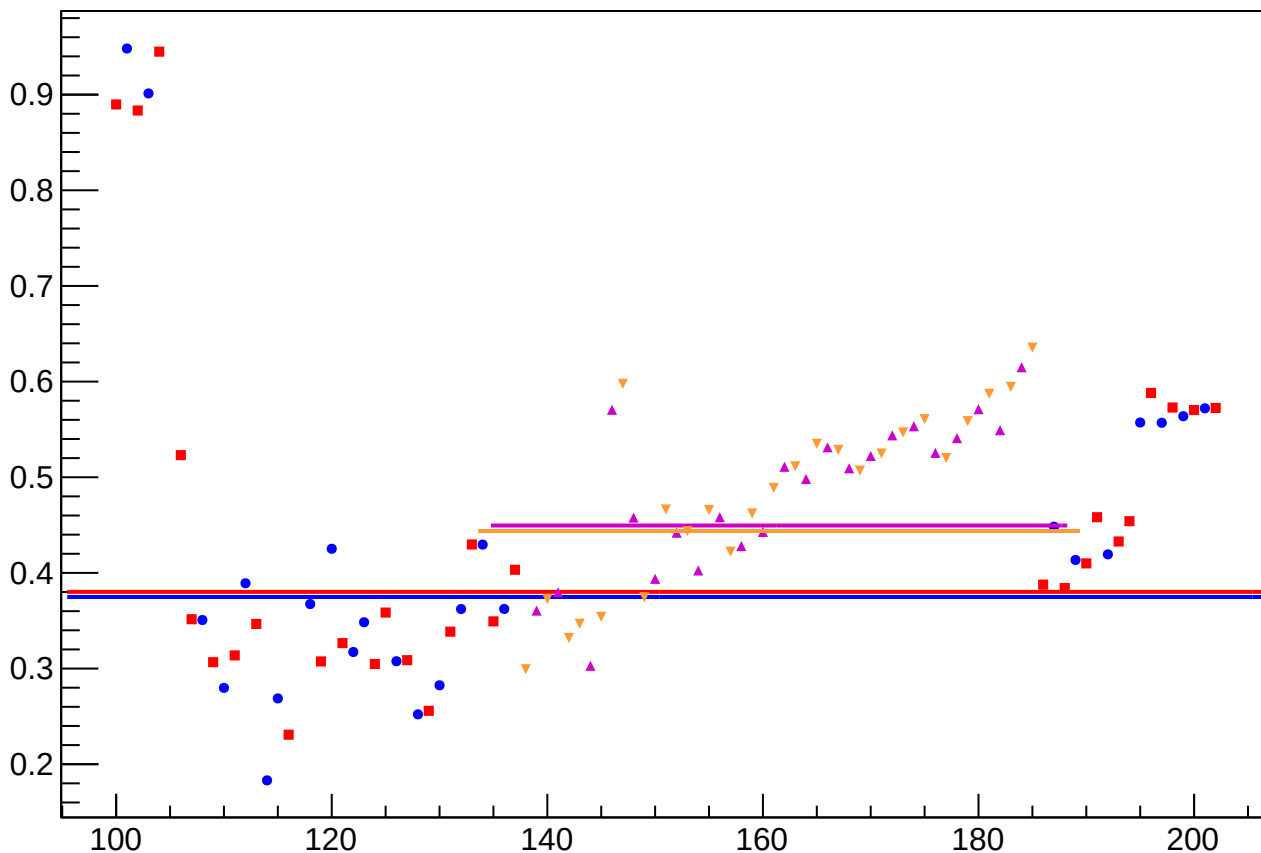
Right: 143.682 ± 0.000 $\chi^2/\text{NDF}: 10440779072.9/52$

In: 145.198 ± 0.000 $\chi^2/\text{NDF}: 4080342131.9/46$

Out: 144.846 ± 0.000 $\chi^2/\text{NDF}: 7951782256.0/53$

All: 145.012 ± 0.000 $\chi^2/\text{NDF}: 12041861651.0/100$

yield_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 0.375+/-0.000 χ^2/NDF : 2175631.3/23

Left Out: 0.444+/-0.000 χ^2/NDF :1460383.7/24

Right Out: 0.380+/-0.000 χ^2/NDF : 2123198.8/28

Left In: 0.450+/-0.000 χ^2/NDF :1092776.5/22

Left: 0.447+/-0.000 χ^2/NDF : 2555905.8/47

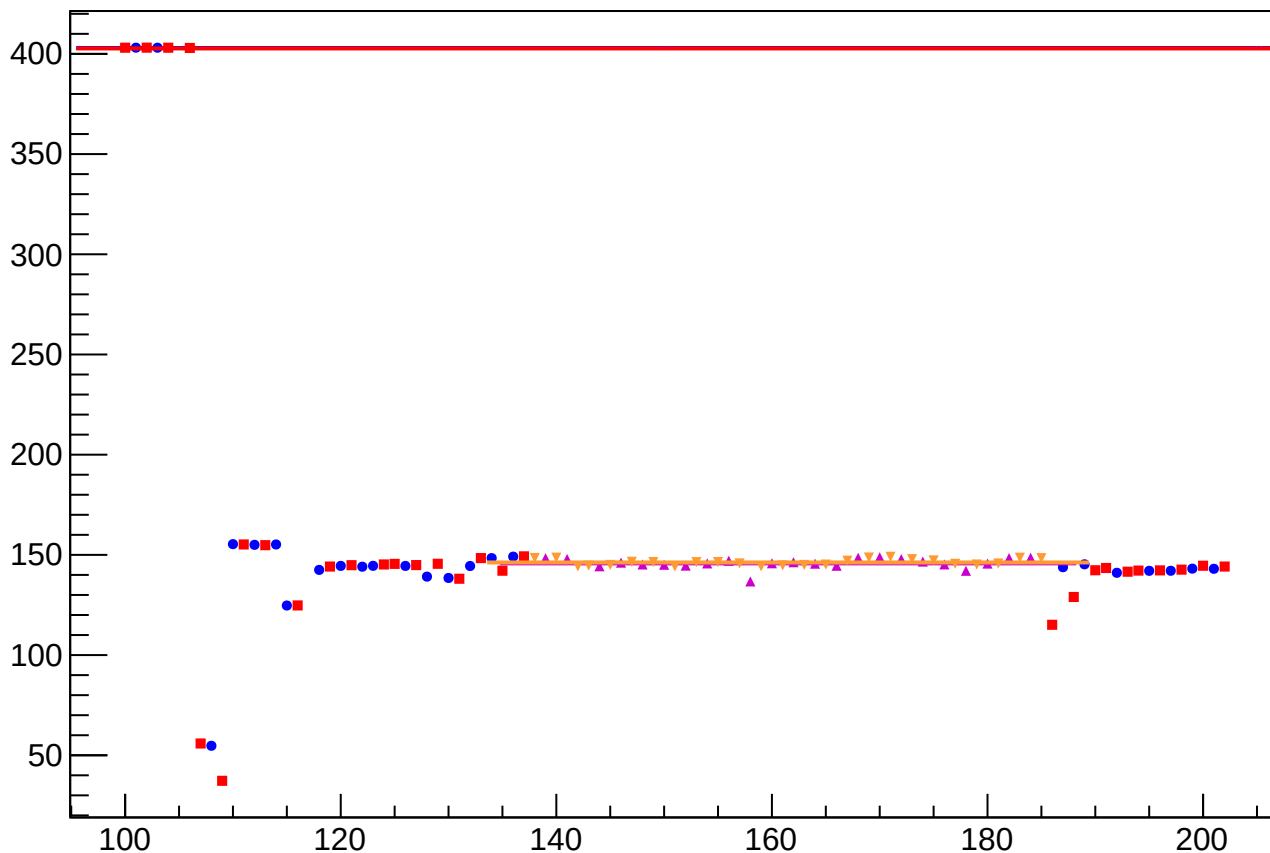
Right: 0.378+/-0.000 χ^2/NDF : 4300953.2/52

In: 0.415+/-0.000 χ^2/NDF :3680053.4/46

Out: 0.413+/-0.000 χ^2/NDF :3919506.9/53

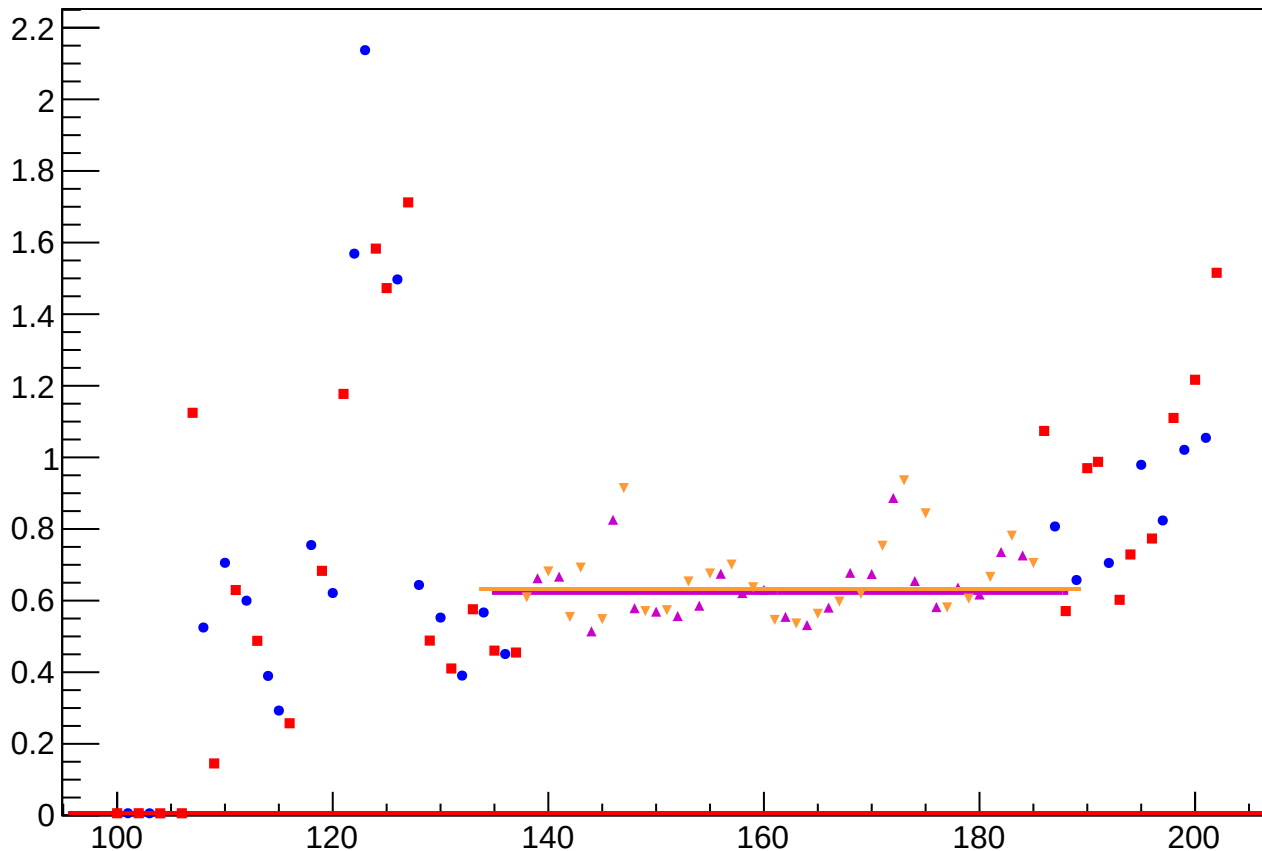
All: 0.414+/-0.000 χ^2/NDF : 7600200.2/100

yield_cav4bQ_mean vs Slug, Sign Corrected



Right In: 402.915+/-0.000	χ^2/NDF : 1437983676999.9/23	Left: 145.987+/-0.000	χ^2/NDF : 295994641.0/47
Left Out: 146.216+/-0.000	χ^2/NDF : 86042286.3/24	Right: 402.820+/-0.000	χ^2/NDF : 5132039237896.0/23
Right Out: 402.736+/-0.000	χ^2/NDF : 3693521690913.9/28	In: 402.624+/-0.000	χ^2/NDF : 3769490637906.2/40
Left In: 145.755+/-0.000	χ^2/NDF : 206171532.0/22	Out: 402.475+/-0.000	χ^2/NDF : 6051056141397.3/50
		All: 402.545+/-0.000	χ^2/NDF : 982091556839.0/100

yield_cav4bQ_rms vs Slug, Sign Corrected



Right In: 0.006 $\pm$ 0.000 χ^2 /NDF: 16270620.7/23

Left Out: 0.632 $\pm$ 0.000 χ^2 /NDF:613604.5/24

Right Out: 0.007 $\pm$ 0.000 χ^2 /NDF: 19582319.8/28

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

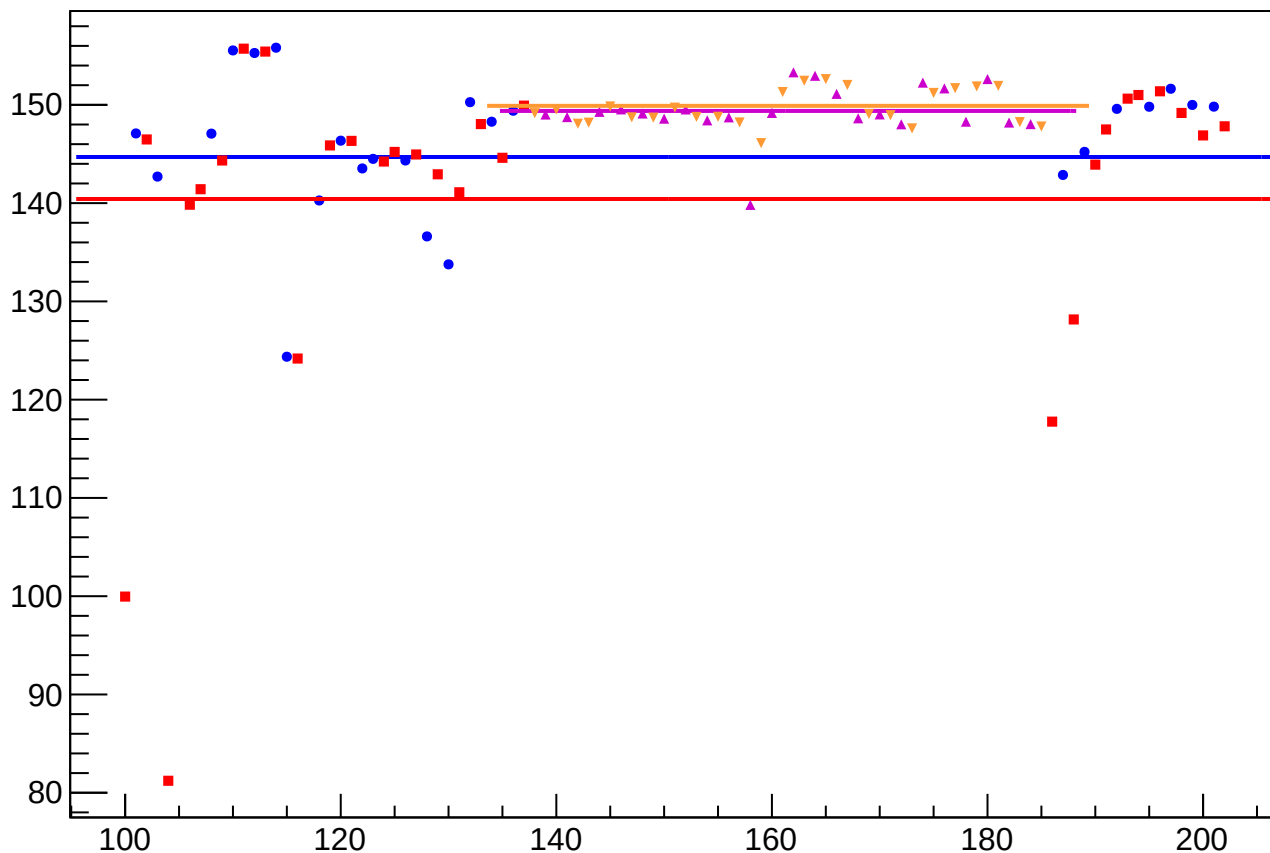
Right: 0.006 $\pm$ 0.000 χ^2 /NDF: 35852978.4/52

In: 0.007 $\pm$ 0.000 χ^2 /NDF:43348808.8/46

Out: 0.007 $\pm$ 0.000 χ^2 /NDF:48266003.3/53

All: 0.007 $\pm$ 0.000 χ^2 /NDF: 91614835.2/100

yield_cav4cQ_mean vs Slug, Sign Corrected



Right In: 144.693 $\pm$ 0.000

χ^2/NDF : 1240672581.2/23

Left: 149.650 $\pm$ 0.000

χ^2/NDF : 604081739.6/47

Left Out: 149.900 $\pm$ 0.000

χ^2/NDF : 162845622.6/24

Right: 142.221 $\pm$ 0.000

χ^2/NDF : 4472399652.7/52

Right Out: 140.421 $\pm$ 0.000

χ^2/NDF : 3049982229.9/28

In: 148.131 $\pm$ 0.000

χ^2/NDF : 1952670192.9/46

Out: 146.888 $\pm$ 0.000

χ^2/NDF : 4661765474.9/53

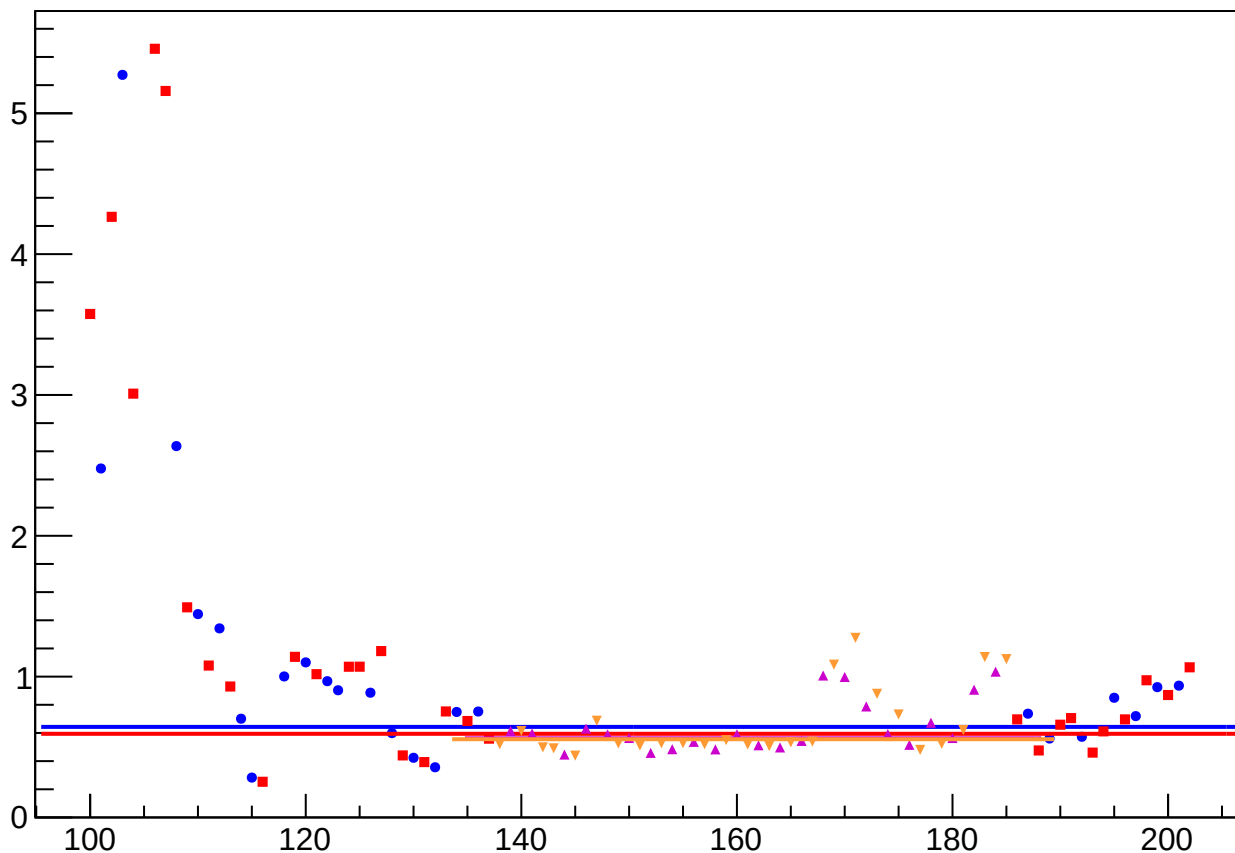
Left In: 149.382 $\pm$ 0.000

χ^2/NDF : 434657827.5/22

All: 147.465 $\pm$ 0.000

χ^2/NDF : 6667801961.7

yield_cav4cQ_rms vs Slug, Sign Corrected



Right In: 0.643 $\pm$ 0.000 χ^2 /NDF: 3975942.0/23

Left Out: 0.555 $\pm$ 0.000 χ^2 /NDF:1773688.1/24

Right Out: 0.594 $\pm$ 0.000 χ^2 /NDF: 5447465.1/28

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

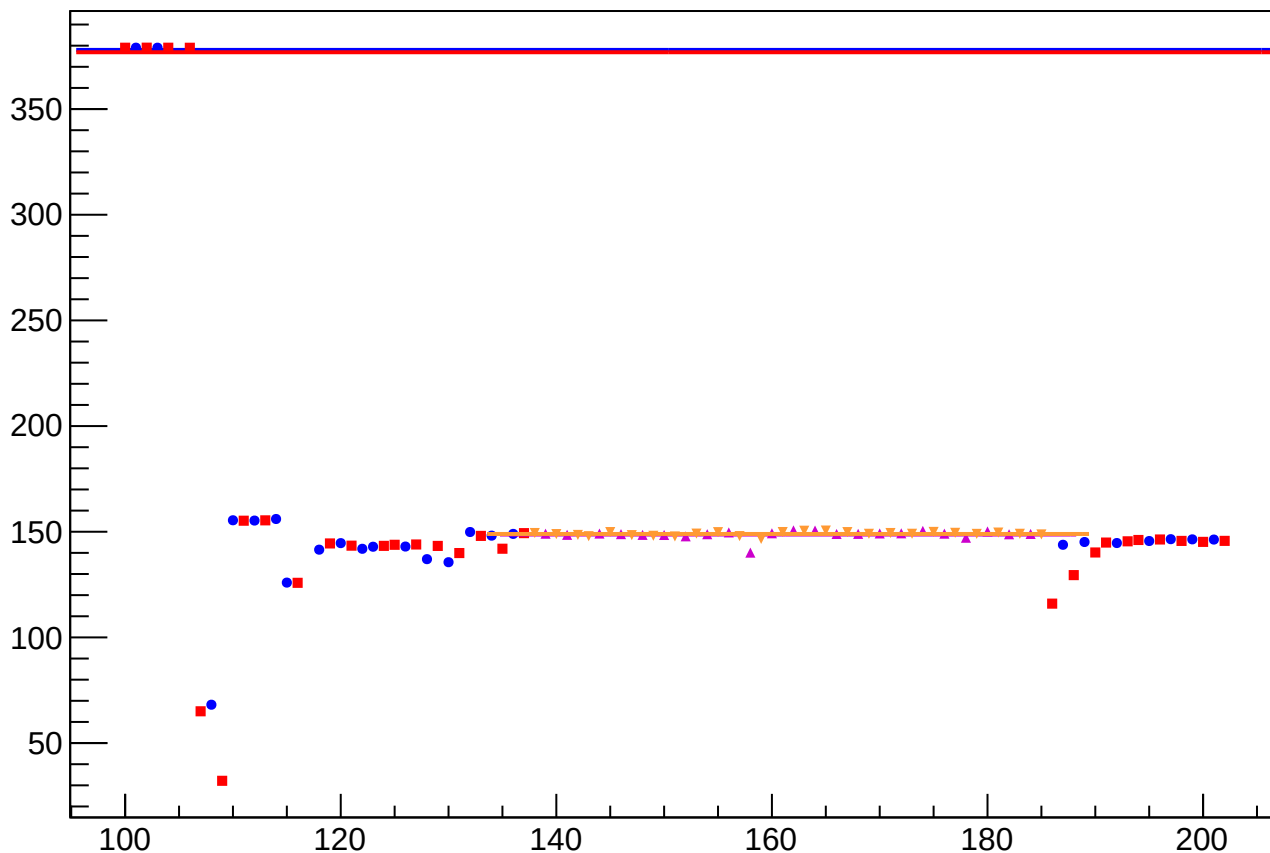
Right: 0.615 $\pm$ 0.000 χ^2 /NDF: 9471378.1/52

In: 0.583 $\pm$ 0.000 χ^2 /NDF:5448215.0/46

Out: 0.568 $\pm$ 0.000 χ^2 /NDF:7268922.9/53

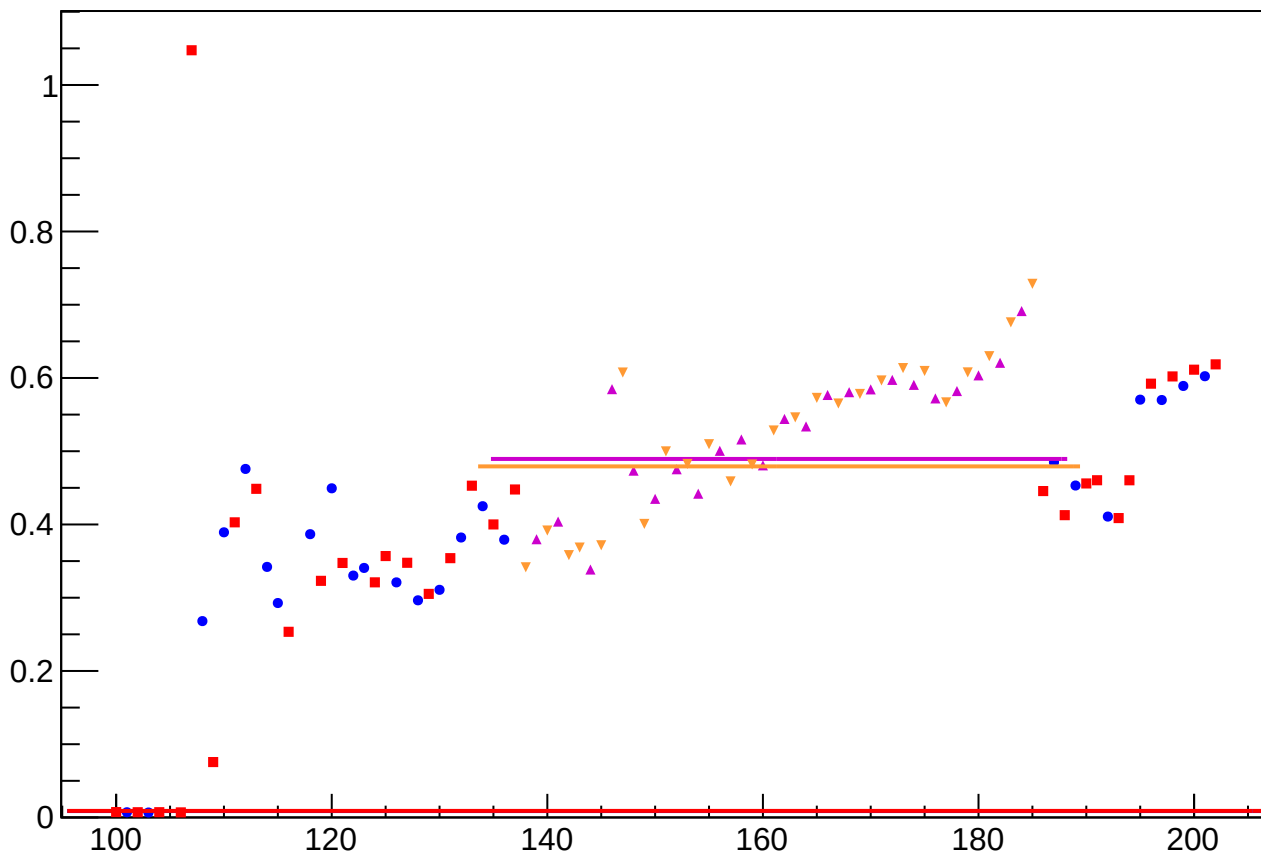
All: 0.575 $\pm$ 0.000 χ^2 /NDF: 12734252.5/100

yield_cav4dQ_mean vs Slug, Sign Corrected



Right In: 377.994+/-0.000	χ^2/NDF : 3402080292610.2/23	Left: 148.814+/-0.000	χ^2/NDF : 319467494.9/47
Left Out: 148.944+/-0.000	χ^2/NDF : 63976941.3/24	Right: 377.407+/-0.000	χ^2/NDF : 13119753666247.0
Right Out: 376.893+/-0.000	χ^2/NDF : 9709059613229.0/28	In: 376.824+/-0.000	χ^2/NDF : 6980831945244.5/40
Left In: 148.672+/-0.000	χ^2/NDF : 252846428.3/22	Out: 375.779+/-0.000	χ^2/NDF : 13571732441784.7
		All: 376.267+/-0.000	χ^2/NDF : 205603604283.0

yield_cav4dQ_rms vs Slug, Sign Corrected



Right In: 0.009+/-0.000 χ^2/NDF : 18483978.5/23

Left Out: 0.479+/-0.000 χ^2/NDF :1516566.1/24

Right Out: 0.009+/-0.000 χ^2/NDF : 21403770.3/28

Left In: 0.489+/-0.000 χ^2/NDF :1076134.2/22

Left: 0.484+/-0.000 χ^2/NDF : 2600075.4/47

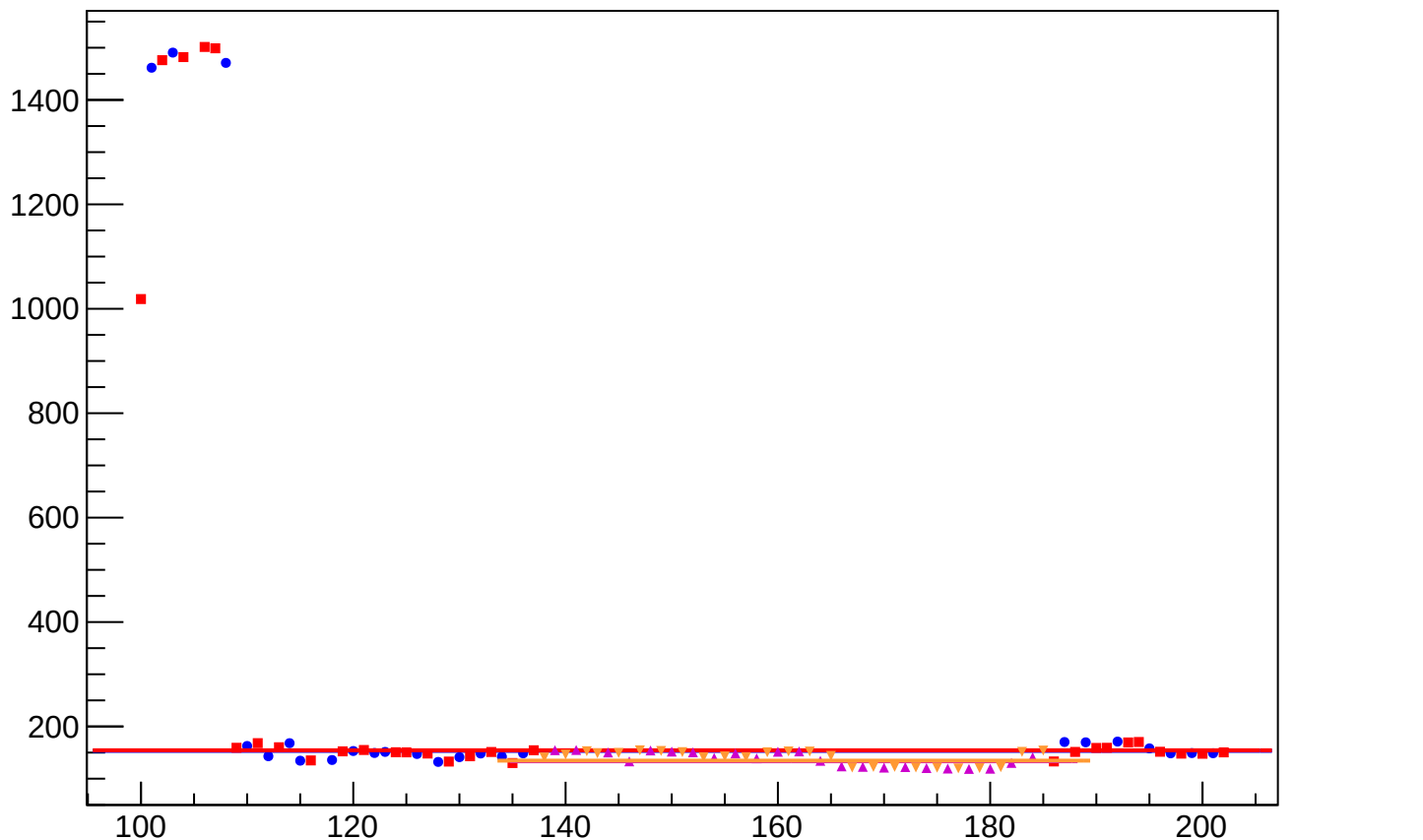
Right: 0.009+/-0.000 χ^2/NDF : 39888262.7/52

In: 0.011+/-0.000 χ^2/NDF :51009665.2/46

Out: 0.011+/-0.000 χ^2/NDF :55813145.8/53

All: 0.011+/-0.000 χ^2/NDF : 106822829.4/100

yield_bcm0l02_mean vs Slug, Sign Corrected



Right In: 153.252 $\pm$ 0.000 χ^2 /NDF: 25541991139.7/23

Left Out: 134.554 $\pm$ 0.000 χ^2 /NDF: 4376966869.3/24

Right Out: 154.394 $\pm$ 0.000 χ^2 /NDF: 34840828019.4/28

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

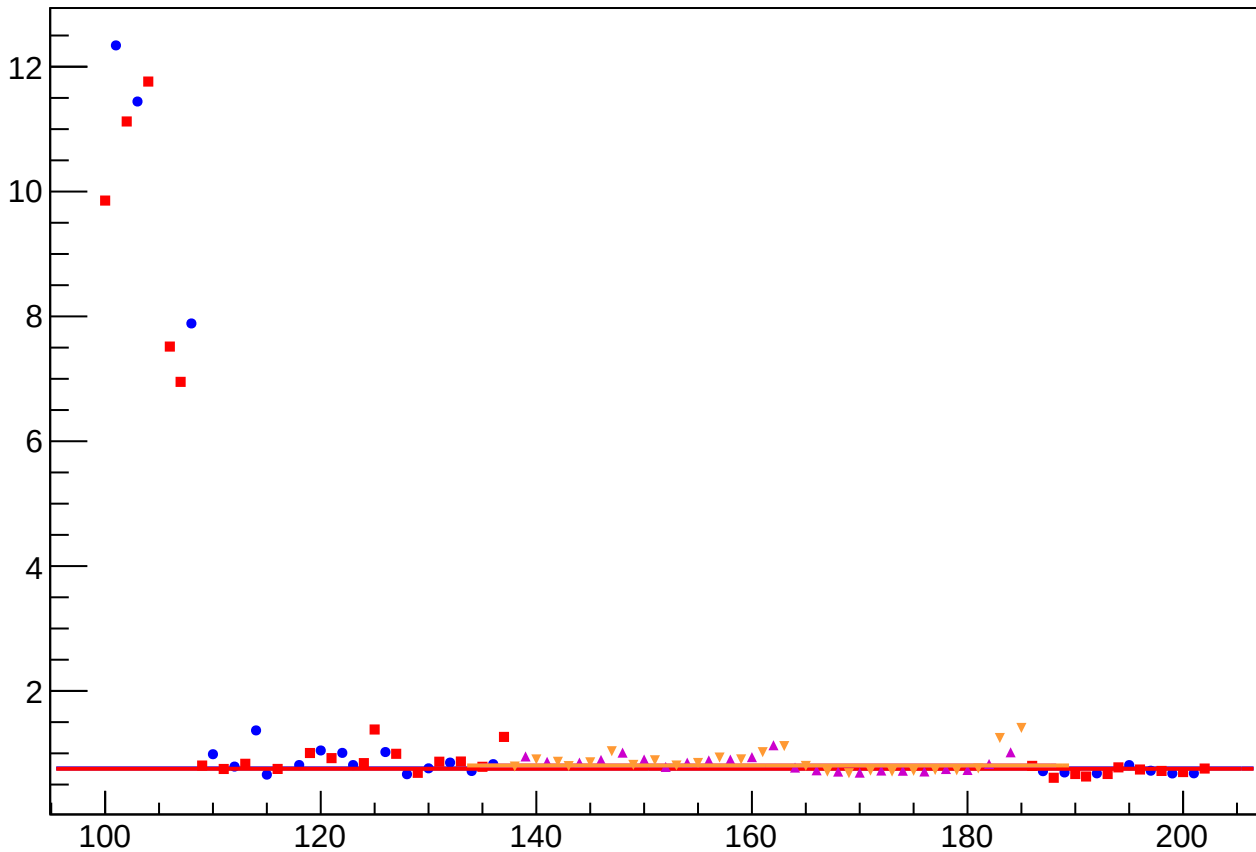
Right: 153.882 $\pm$ 0.000 χ^2 /NDF: 60392760031.8/52

In: 140.861 $\pm$ 0.000 χ^2 /NDF: 33252824512.4/46

Out: 142.846 $\pm$ 0.000 χ^2 /NDF: 43119120069.1/53

All: 141.907 $\pm$ 0.000 χ^2 /NDF: 76447914761.0

yield_bcm0l02_rms vs Slug, Sign Corrected



Right In: 0.759 $\pm$ 0.000 χ^2 /NDF: 2822455.0/23

Left Out: 0.806 $\pm$ 0.000 χ^2 /NDF:690578.5/24

Right Out: 0.753 $\pm$ 0.000 χ^2 /NDF: 3138574.8/28

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

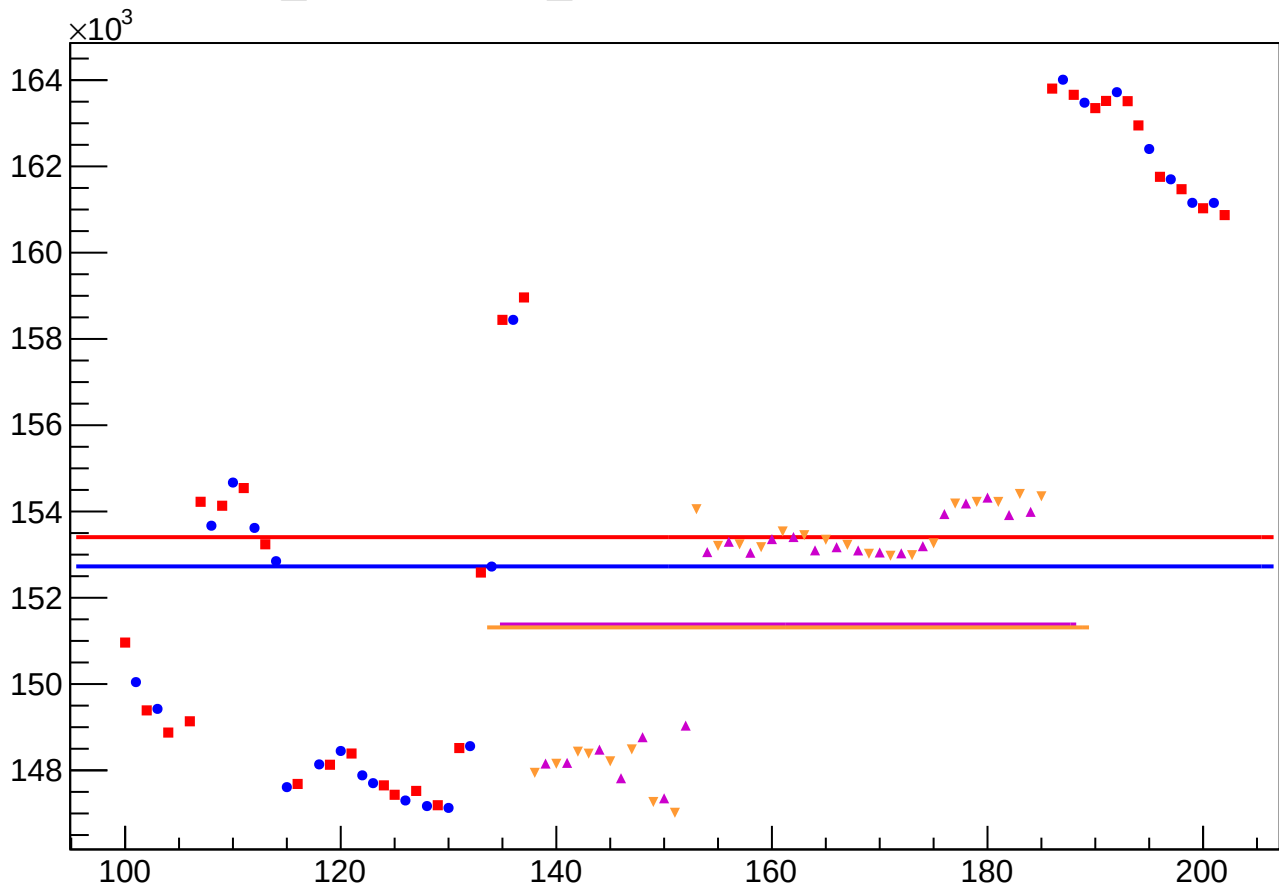
Right: 0.755 $\pm$ 0.000 χ^2 /NDF: 5961565.6/52

In: 0.787 $\pm$ 0.000 χ^2 /NDF:3339321.0/46

Out: 0.784 $\pm$ 0.000 χ^2 /NDF:3885411.6/53

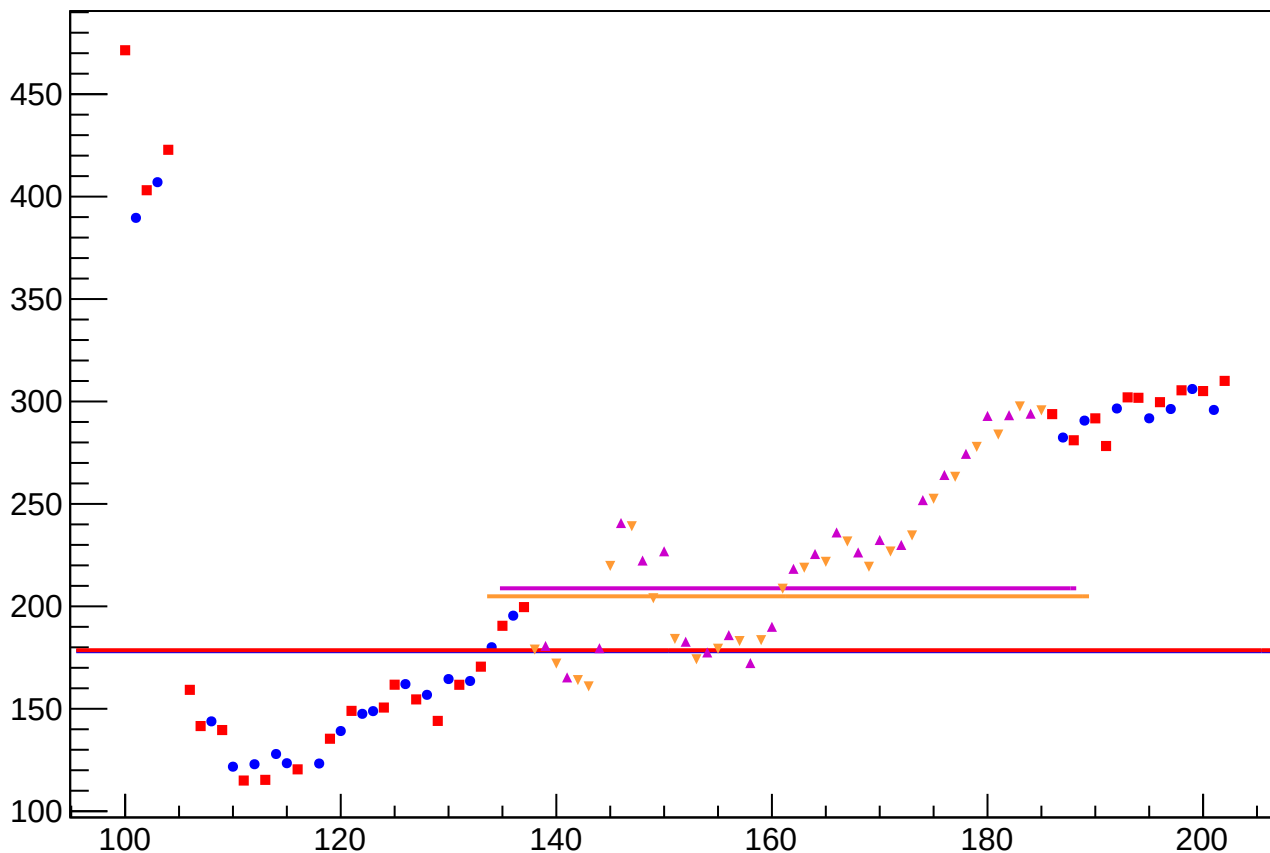
All: 0.786 $\pm$ 0.000 χ^2 /NDF: 7225216.2/100

yield_bpm0i01WS_mean vs Slug, Sign Corrected



Right In: 152727.210+/-0.057	χ^2/NDF : 9324109348.5/23	Left: 151345.082+/-0.035	χ^2/NDF : 5518562148.3/23
Left Out: 151313.284+/-0.049	χ^2/NDF : 3153768134.8/24	Right: 153090.400+/-0.039	χ^2/NDF : 20209721787.7/24
Right Out: 153405.022+/-0.053	χ^2/NDF : 10810569407.4/28	In: 151978.381+/-0.038	χ^2/NDF : 11995478546.0/28
Left In: 151380.236+/-0.051	χ^2/NDF : 2363895785.3/22	Out: 152264.513+/-0.036	χ^2/NDF : 14803832721.5/22
		All: 152130.004+/-0.026	χ^2/NDF : 268290929.7/22

yield_bpm0i01WS_rms vs Slug, Sign Corrected



Right In: 178.103 $\pm$ 0.040 χ^2 /NDF: 2968949.4/23

Left Out: 204.900 $\pm$ 0.034 χ^2 /NDF:1056380.8/24

Right Out: 178.581 $\pm$ 0.038 χ^2 /NDF: 3744835.4/28

Left In: 208.813 $\pm$ 0.036 χ^2 /NDF:1001936.6/22

Left: 206.758 $\pm$ 0.025 χ^2 /NDF: 2064453.9/47

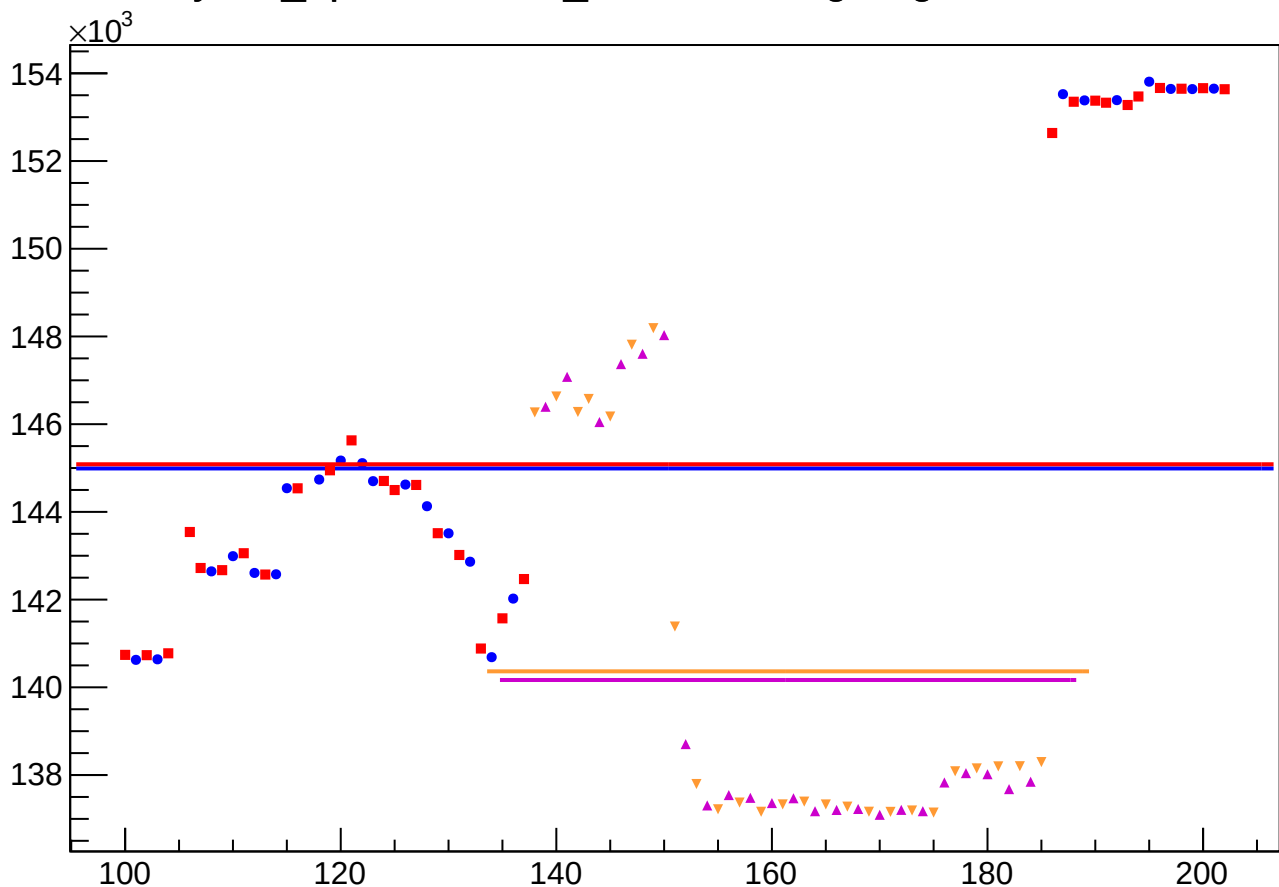
Right: 178.359 $\pm$ 0.028 χ^2 /NDF: 6713859.5/52

In: 195.175 $\pm$ 0.027 χ^2 /NDF:4290535.2/46

Out: 192.931 $\pm$ 0.025 χ^2 /NDF:5067020.4/53

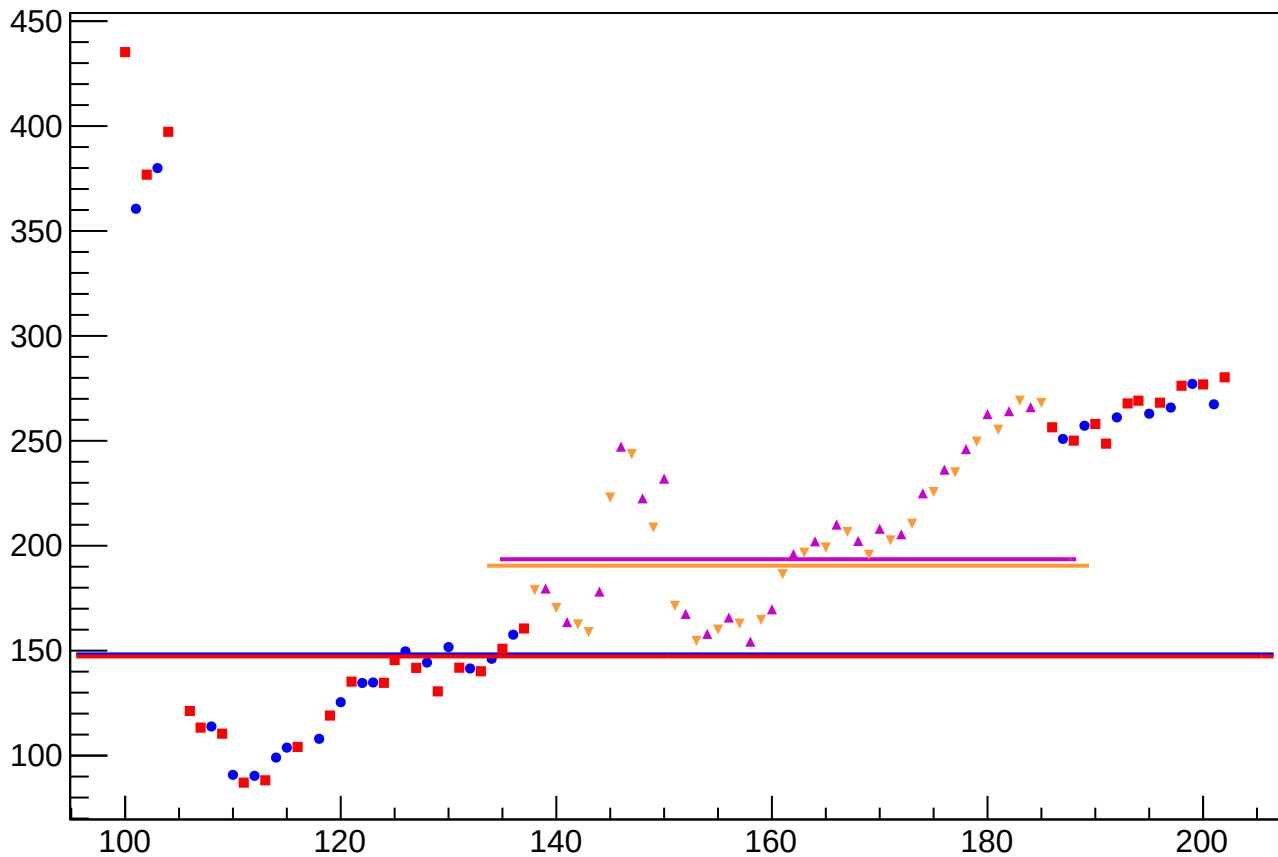
All: 193.986 $\pm$ 0.019 χ^2 /NDF: 9361220.5/100

yield_bpm0i01aWS_mean vs Slug, Sign Corrected



Right In: 144990.127+/-0.048	χ^2/NDF : 6396109229.2/23	Left: 140270.460+/-0.033	χ^2/NDF : 16714620354.4
Left Out: 140364.444+/-0.045	χ^2/NDF : 8677078677.7/24	Right: 145042.076+/-0.033	χ^2/NDF : 14602459113.3
Right Out: 145085.957+/-0.045	χ^2/NDF : 8204230604.2/28	In: 142527.413+/-0.034	χ^2/NDF : 19481226559.1/4
Left In: 140166.971+/-0.047	χ^2/NDF : 8028464654.6/22	Out: 142760.620+/-0.032	χ^2/NDF : 22414514204.6
		All: 142651.726+/-0.023	χ^2/NDF : 419209590

yield_bpm0i01aWS_rms vs Slug, Sign Corrected



Right In: 148.223+/-0.034 χ^2/NDF : 3616270.8/23

Left Out: 190.486+/-0.032 χ^2/NDF :950233.2/24

Right Out: 147.242+/-0.031 χ^2/NDF : 4545317.6/28

Left In: 193.558+/-0.034 χ^2/NDF :963675.0/22

Left: 191.948+/-0.023 χ^2/NDF : 1918302.4/47

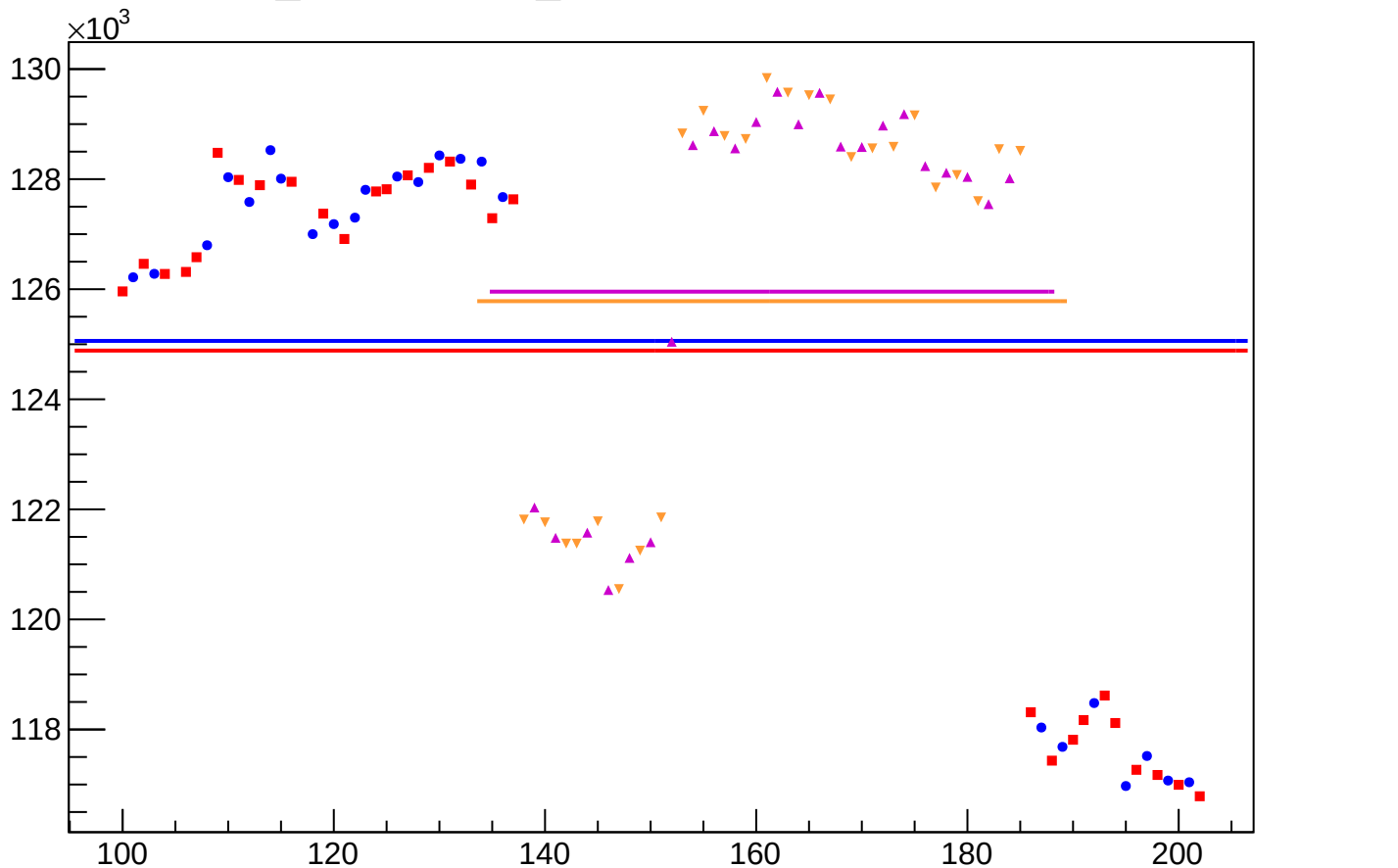
Right: 147.691+/-0.023 χ^2/NDF : 8162032.8/52

In: 171.371+/-0.024 χ^2/NDF :5473461.2/46

Out: 168.539+/-0.022 χ^2/NDF :6423875.7/53

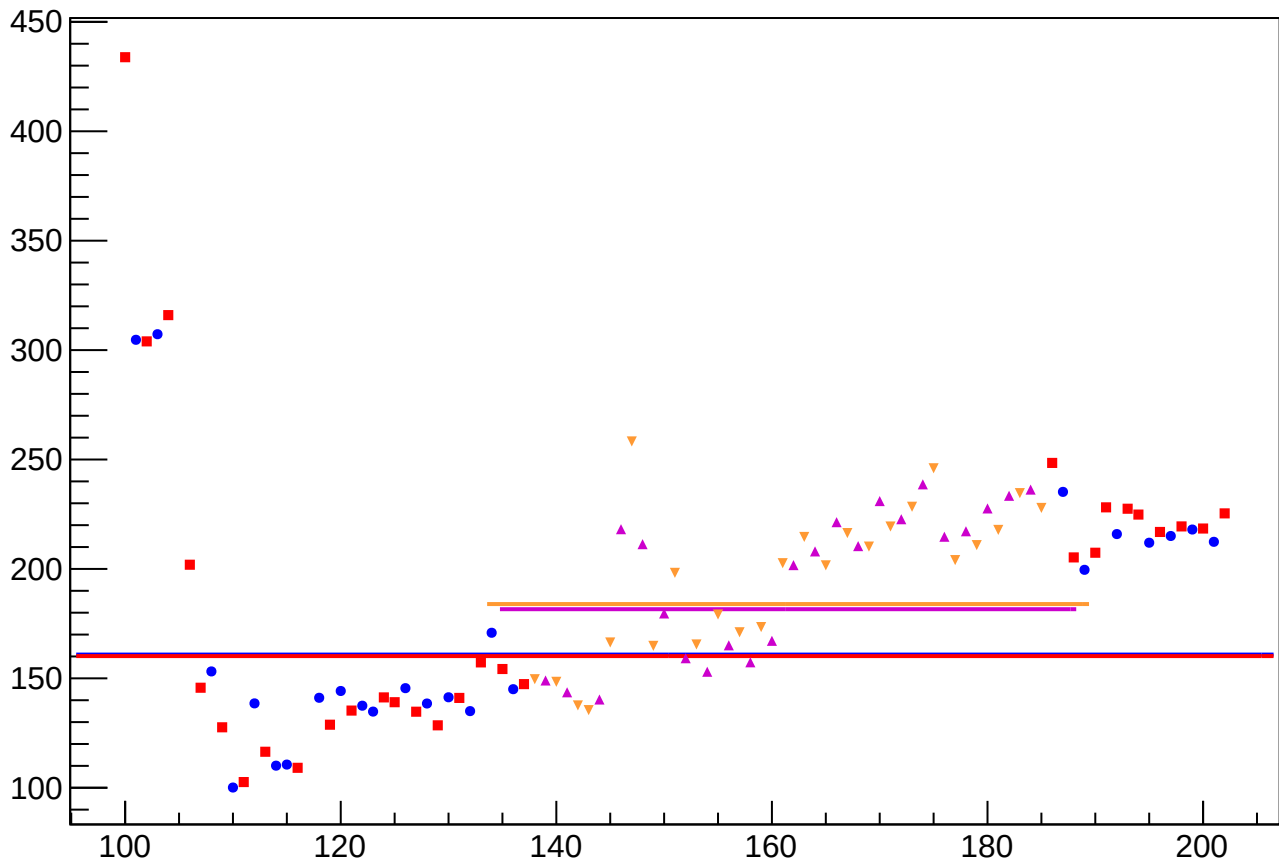
All: 169.862+/-0.016 χ^2/NDF : 11904774.0/100

yield_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: 125060.860 $\pm$ 0.050	χ^2 /NDF: 8118816875.1/23	Left: 125867.639 $\pm$ 0.031	χ^2 /NDF: 12541428458.9/23
Left Out: 125782.764 $\pm$ 0.044	χ^2 /NDF: 6729761889.8/24	Right: 124965.929 $\pm$ 0.034	χ^2 /NDF: 17964646835.0/24
Right Out: 124884.858 $\pm$ 0.046	χ^2 /NDF: 9839172391.7/28	In: 125557.977 $\pm$ 0.033	χ^2 /NDF: 14100145554.5/28
Left In: 125955.637 $\pm$ 0.045	χ^2 /NDF: 5804088930.1/22	Out: 125356.583 $\pm$ 0.032	χ^2 /NDF: 16766564467.2/22
		All: 125452.648 $\pm$ 0.023	χ^2 /NDF: 308857288.0/23

yield_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 160.854 $\pm$ 0.035 χ^2 /NDF: 1612636.0/23

Left Out: 183.947 $\pm$ 0.031 χ^2 /NDF: 1123194.0/24

Right Out: 160.169 $\pm$ 0.033 χ^2 /NDF: 2265926.0/28

Left In: 181.596 $\pm$ 0.032 χ^2 /NDF: 1103524.3/22

Left: 182.792 $\pm$ 0.022 χ^2 /NDF: 2229521.2/47

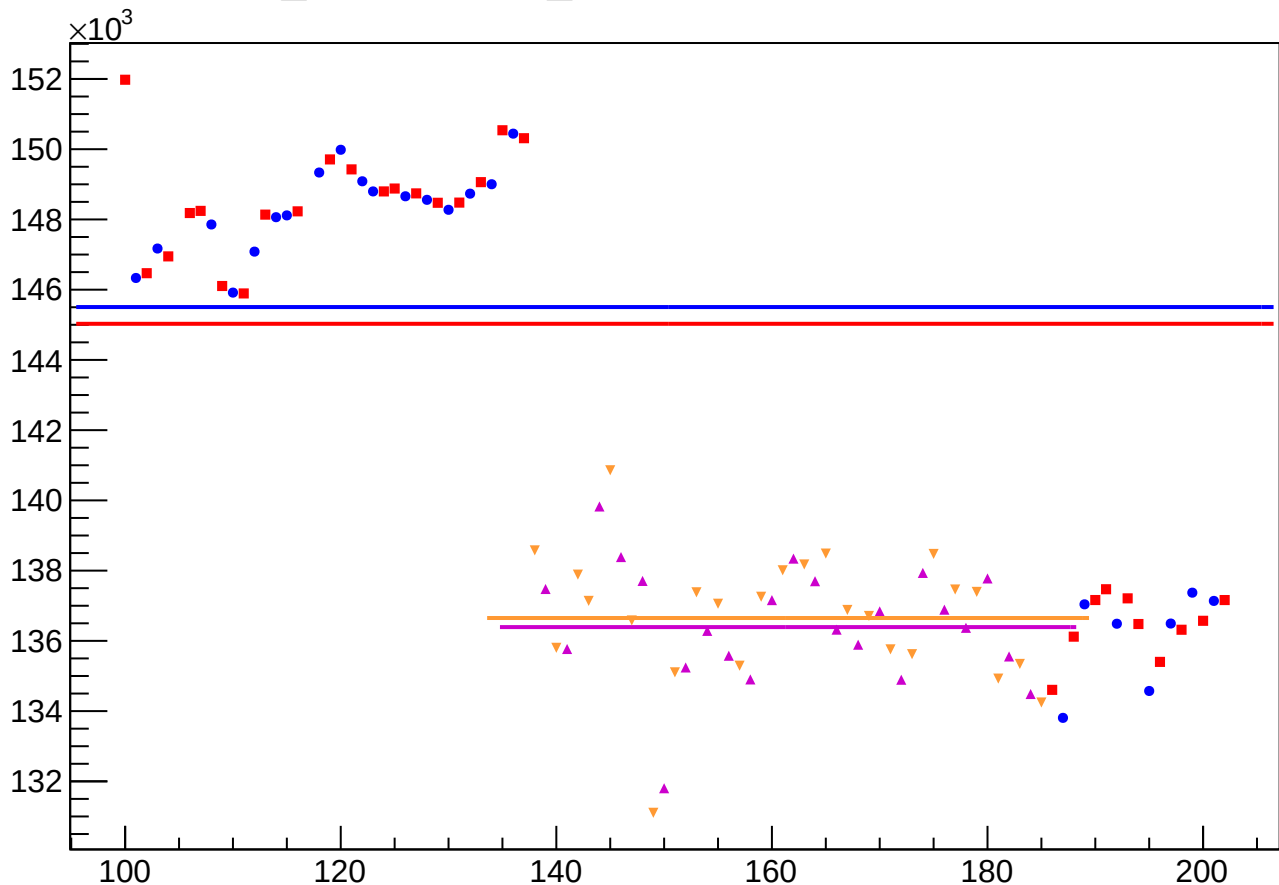
Right: 160.484 $\pm$ 0.024 χ^2 /NDF: 3878763.8/52

In: 172.378 $\pm$ 0.024 χ^2 /NDF: 2906642.0/46

Out: 172.661 $\pm$ 0.023 χ^2 /NDF: 3666303.3/53

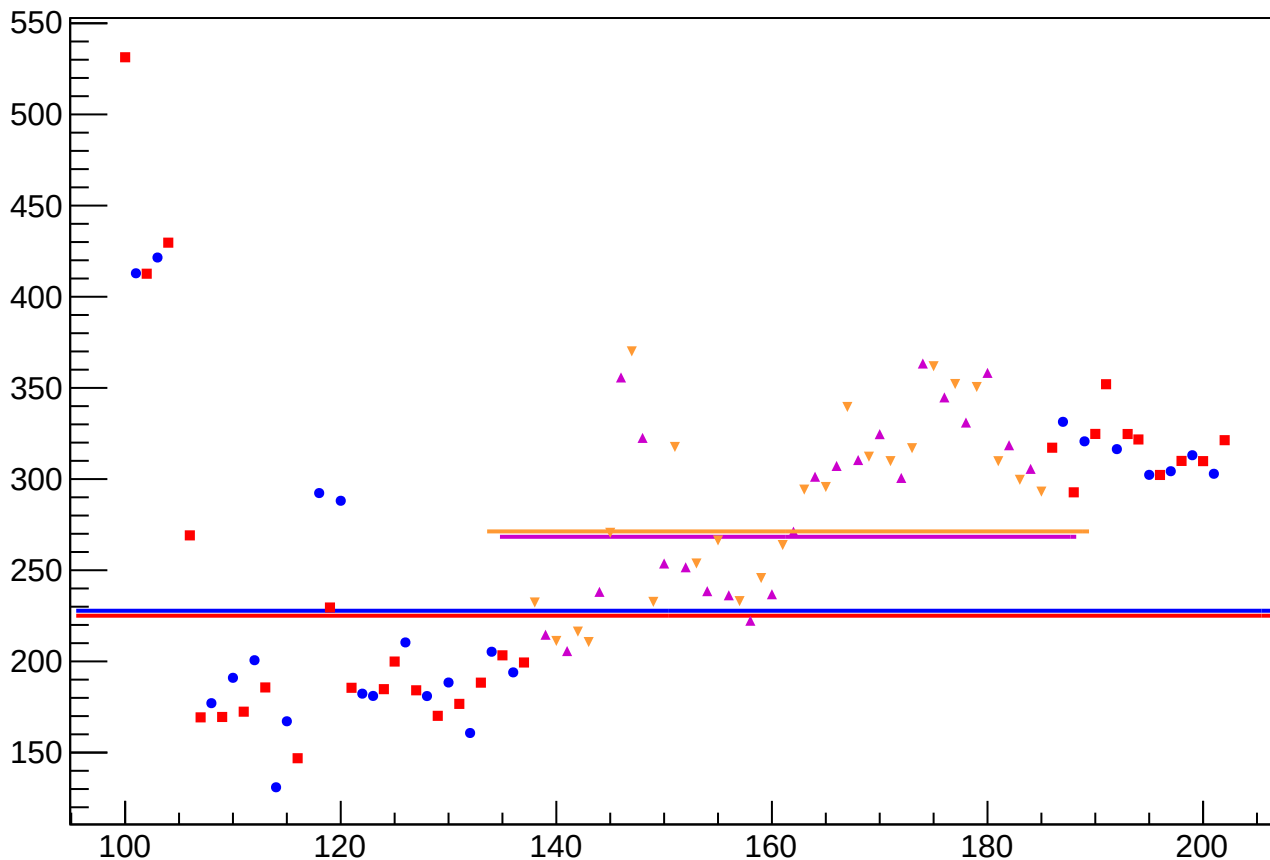
All: 172.526 $\pm$ 0.016 χ^2 /NDF: 6573020.5/100

yield_bpm0l02WS_mean vs Slug, Sign Corrected



Right In: 145505.346 $\pm$ 0.071	χ^2 /NDF: 5691236268.2/23	Left: 136524.219 $\pm$ 0.046	χ^2 /NDF: 1640486942.5/4
Left Out: 136650.935 $\pm$ 0.065	χ^2 /NDF: 930649595.5/24	Right: 145245.378 $\pm$ 0.048	χ^2 /NDF: 12718141616.0
Right Out: 145028.369 $\pm$ 0.065	χ^2 /NDF: 7002510120.9/28	In: 140595.591 $\pm$ 0.048	χ^2 /NDF: 15195931993.8/4
Left In: 136392.188 $\pm$ 0.066	χ^2 /NDF: 701986841.4/22	Out: 140806.581 $\pm$ 0.046	χ^2 /NDF: 16268761338.9
		All: 140706.770 $\pm$ 0.033	χ^2 /NDF: 31474698

yield_bpm0l02WS_rms vs Slug, Sign Corrected



Right In: 227.784 $\pm$ 0.050 χ^2 /NDF: 1818995.9/23

Left Out: 271.295 $\pm$ 0.046 χ^2 /NDF:1064485.7/24

Right Out: 225.067 $\pm$ 0.046 χ^2 /NDF: 2229696.1/28

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

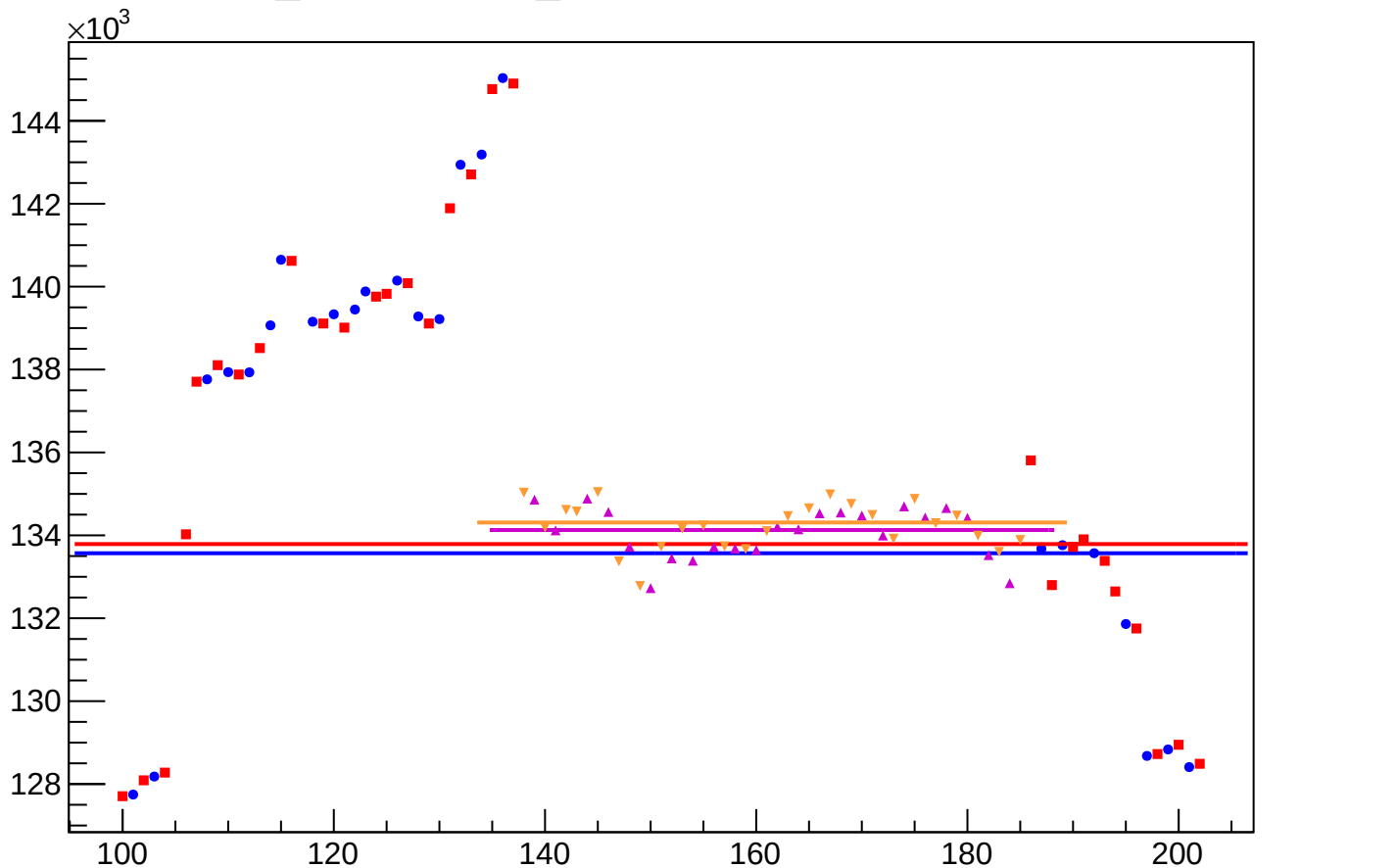
Right: 226.304 $\pm$ 0.034 χ^2 /NDF: 4050275.2/52

In: 249.636 $\pm$ 0.034 χ^2 /NDF:3245085.2/46

Out: 248.364 $\pm$ 0.032 χ^2 /NDF:3801814.7/53

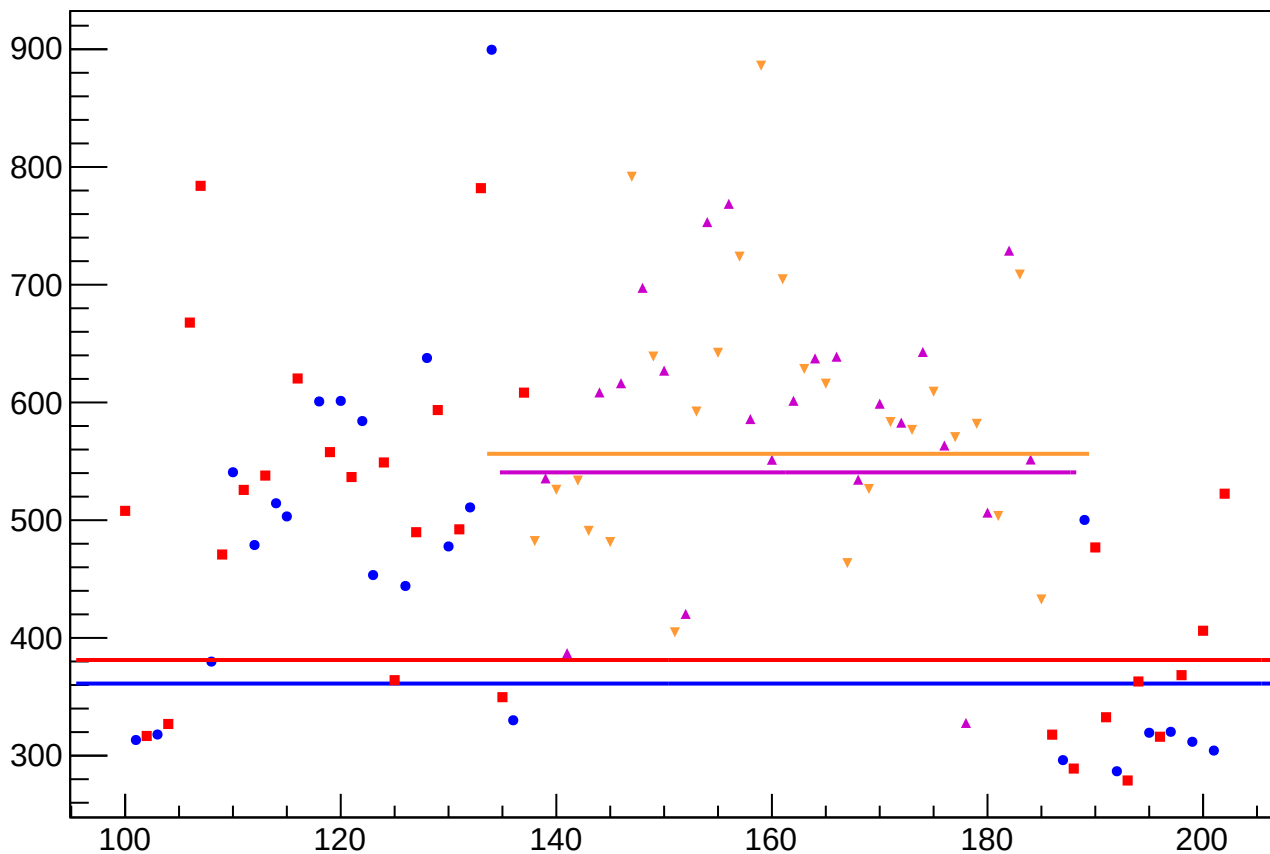
All: 248.966 $\pm$ 0.024 χ^2 /NDF: 7047627.3/100

yield_bpm0l03WS_mean vs Slug, Sign Corrected



Right In: 133568.237 $\pm$ 0.120	χ^2/NDF : 2274884113.0/23	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: 133679.519 $\pm$ 0.085	χ^2/NDF : 3767835675.5/
Right Out: 133789.604 $\pm$ 0.120	χ^2/NDF : 1491246873.5/28	In: 133802.020 $\pm$ 0.092	χ^2/NDF : 2299476373.6/40
Left In: 134128.172 $\pm$ 0.142	χ^2/NDF : 15533736.2/22	Out: 134011.824 $\pm$ 0.091	χ^2/NDF : 1514858830.8/5
		All: 133908.333 $\pm$ 0.064	χ^2/NDF : 381698506.0/

yield_bpm0l03WS_rms vs Slug, Sign Corrected



Right In: 361.228 ± 0.085 χ^2/NDF : 1251917.0/23

Left Out: 556.381 ± 0.098 χ^2/NDF : 1002064.0/24

Right Out: 381.246 ± 0.085 χ^2/NDF : 1602348.9/28

Left In: 540.607 ± 0.100 χ^2/NDF : 1409015.2/22

Left: 548.687 ± 0.070 χ^2/NDF : 2423723.9/47

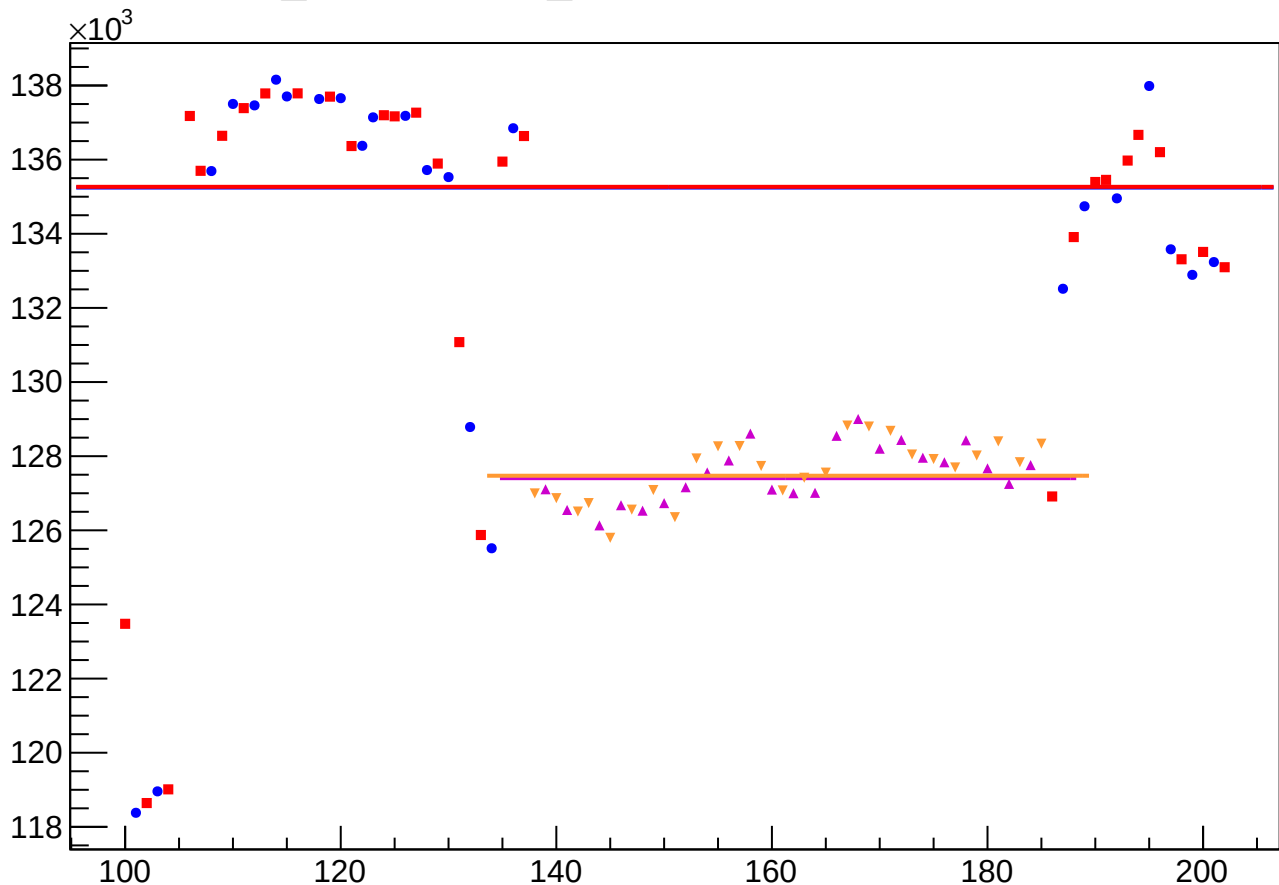
Right: 371.291 ± 0.060 χ^2/NDF : 2882147.3/52

In: 436.122 ± 0.065 χ^2/NDF : 4520260.7/46

Out: 455.997 ± 0.064 χ^2/NDF : 4435966.1/53

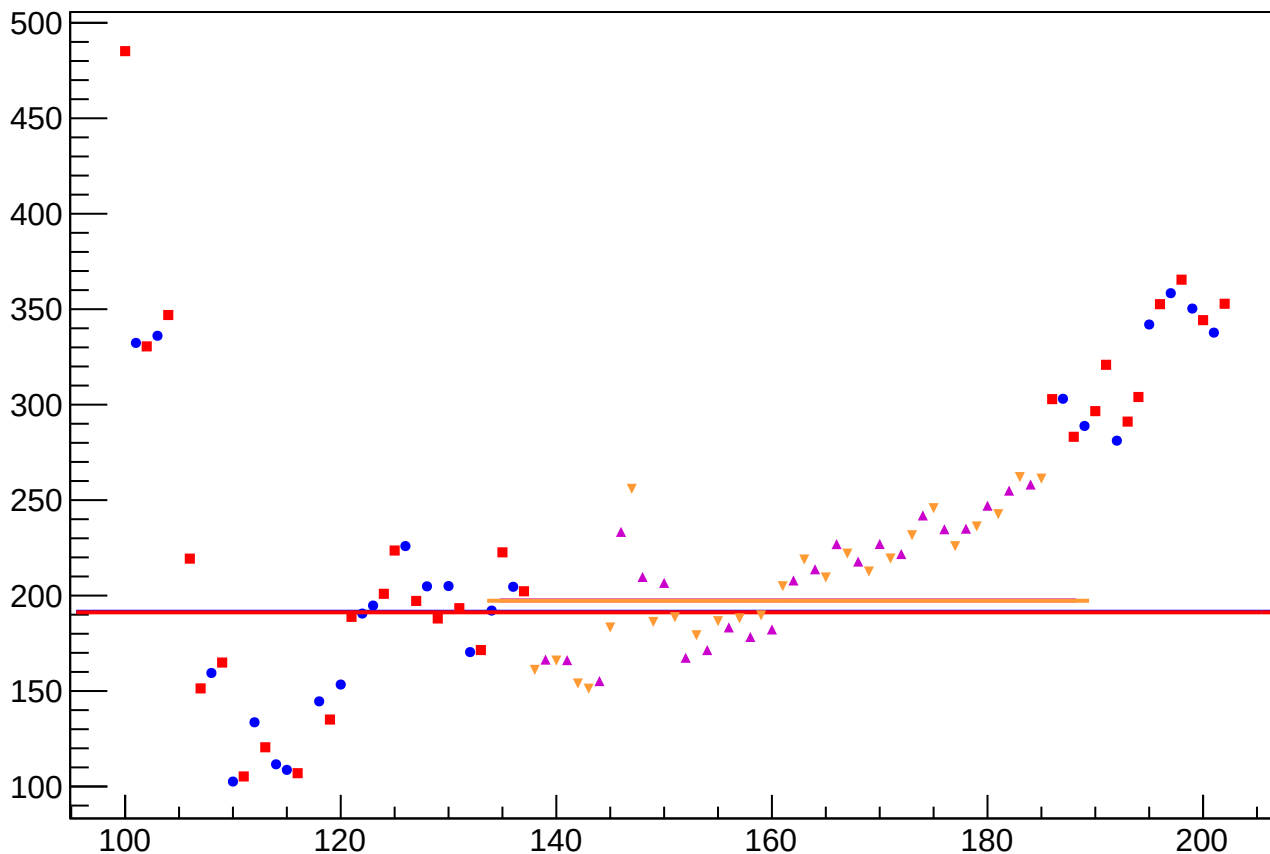
All: 446.193 ± 0.046 χ^2/NDF : 9003786.4/100

yield_bpm0l04WS_mean vs Slug, Sign Corrected



Right In: 135246.793 $\pm$ 0.062	χ^2 /NDF: 4731170294.2/23	Left: 127440.757 $\pm$ 0.034	χ^2 /NDF: 574486725.7/47
Left Out: 127472.525 $\pm$ 0.047	χ^2 /NDF: 303609315.6/24	Right: 135257.448 $\pm$ 0.042	χ^2 /NDF: 9874358993.2/47
Right Out: 135266.554 $\pm$ 0.057	χ^2 /NDF: 5143134158.1/28	In: 130365.000 $\pm$ 0.038	χ^2 /NDF: 14916034059.1/47
Left In: 127406.911 $\pm$ 0.048	χ^2 /NDF: 269927988.0/22	Out: 130586.766 $\pm$ 0.036	χ^2 /NDF: 16502490292.7/47
		All: 130481.408 $\pm$ 0.026	χ^2 /NDF: 314362489.1/47

yield_bpm0l04WS_rms vs Slug, Sign Corrected



Right In: 191.529+/-0.044 χ^2/NDF : 3146440.0/23

Left Out: 197.289+/-0.033 χ^2/NDF : 852024.1/24

Right Out: 191.233+/-0.041 χ^2/NDF : 3967343.5/28

Left In: 197.471+/-0.034 χ^2/NDF : 791577.5/22

Left: 197.377+/-0.024 χ^2/NDF : 1643616.2/47

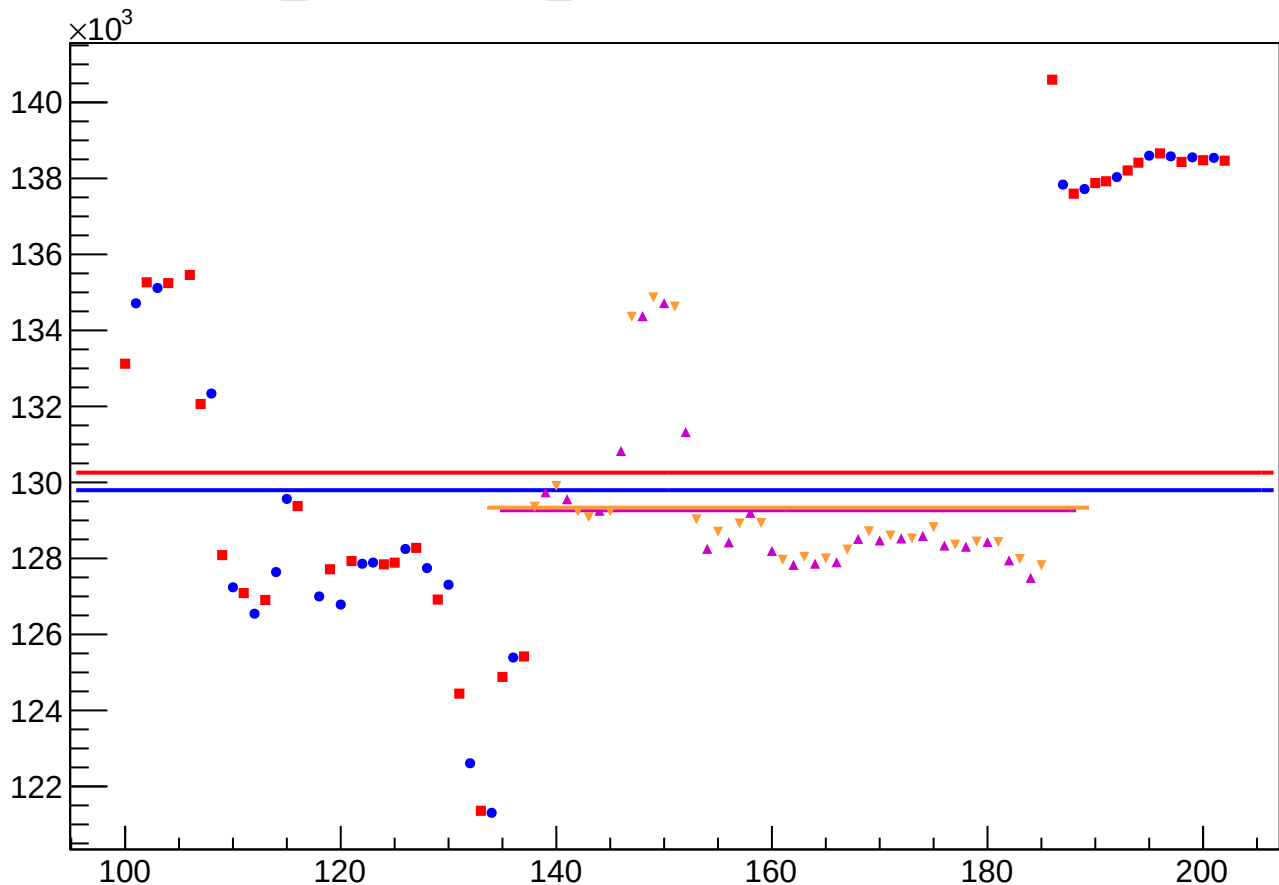
Right: 191.370+/-0.030 χ^2/NDF : 7113807.9/52

In: 195.229+/-0.027 χ^2/NDF : 3949408.2/46

Out: 194.870+/-0.026 χ^2/NDF : 4832716.8/53

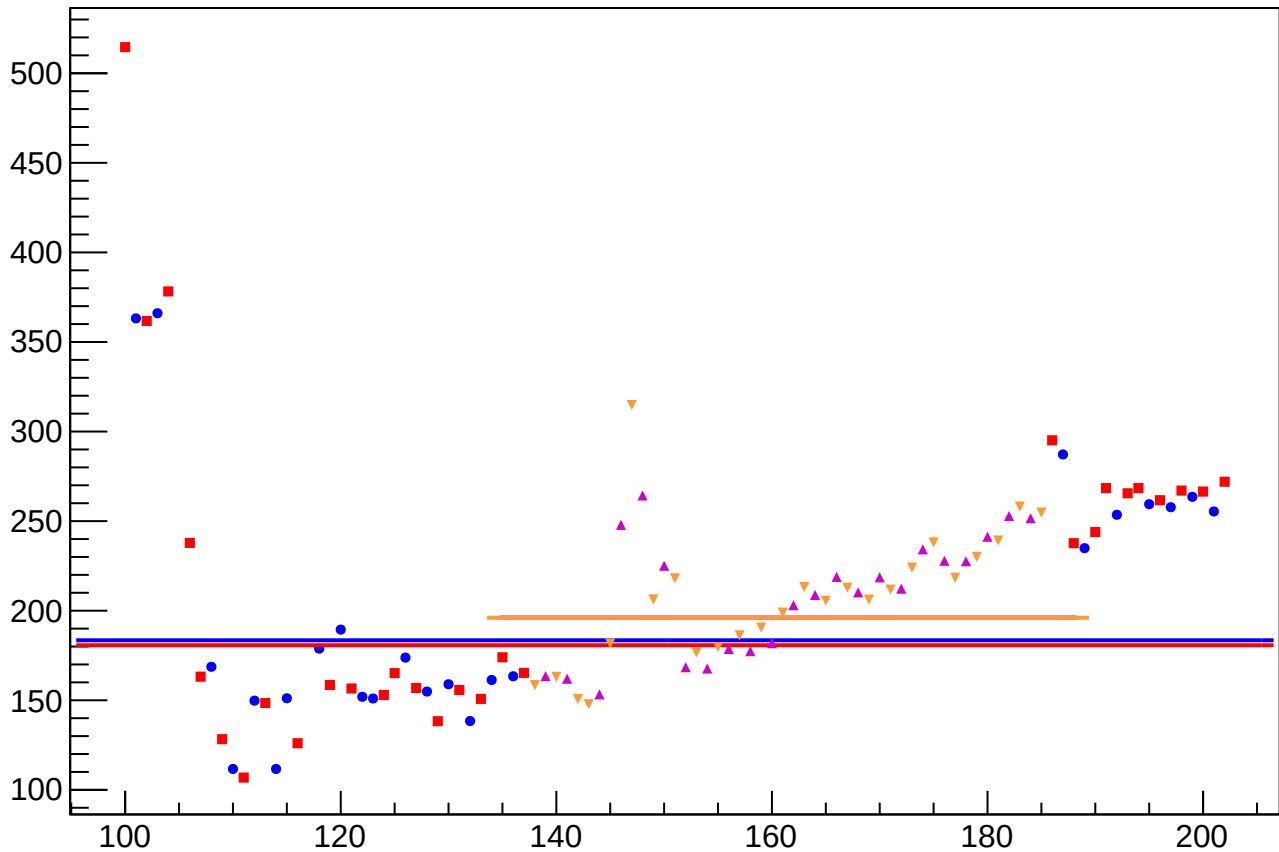
All: 195.040+/-0.019 χ^2/NDF : 8782218.2/100

yield_bpm0l05WS_mean vs Slug, Sign Corrected



Right In: 129795.462 $\pm$ 0.058	χ^2 /NDF: 8626865997.5/23	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: 130046.617 $\pm$ 0.039	χ^2 /NDF: 18908183299.1/24
Right Out: 130257.179 $\pm$ 0.053	χ^2 /NDF: 10246723466.1/28	In: 129483.034 $\pm$ 0.037	χ^2 /NDF: 9889891532.0/40
Left In: 129266.909 $\pm$ 0.048	χ^2 /NDF: 1213762773.1/22	Out: 129738.737 $\pm$ 0.035	χ^2 /NDF: 11867603569.9/22
		All: 129617.866 $\pm$ 0.025	χ^2 /NDF: 217826482.1/22

yield_bpm0l05WS_rms vs Slug, Sign Corrected



Right In: 183.485 $\pm$ 0.041 χ^2 /NDF: 1943098.0/23

Left Out: 196.077 $\pm$ 0.033 χ^2 /NDF: 975710.9/24

Right Out: 180.715 $\pm$ 0.037 χ^2 /NDF: 2749594.6/28

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

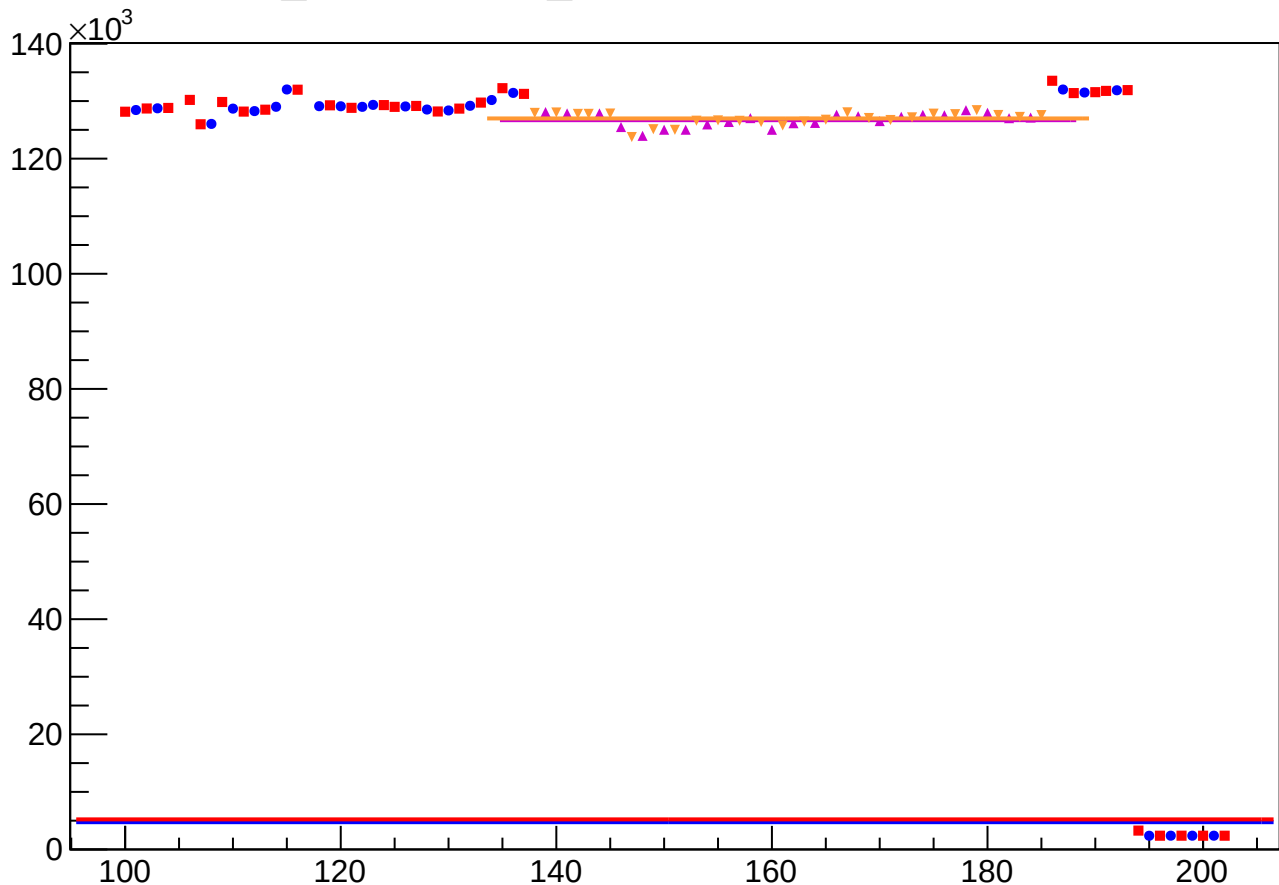
Right: 181.979 $\pm$ 0.028 χ^2 /NDF: 4695182.5/52

In: 190.993 $\pm$ 0.026 χ^2 /NDF: 2898045.8/46

Out: 189.361 $\pm$ 0.025 χ^2 /NDF: 3819819.5/53

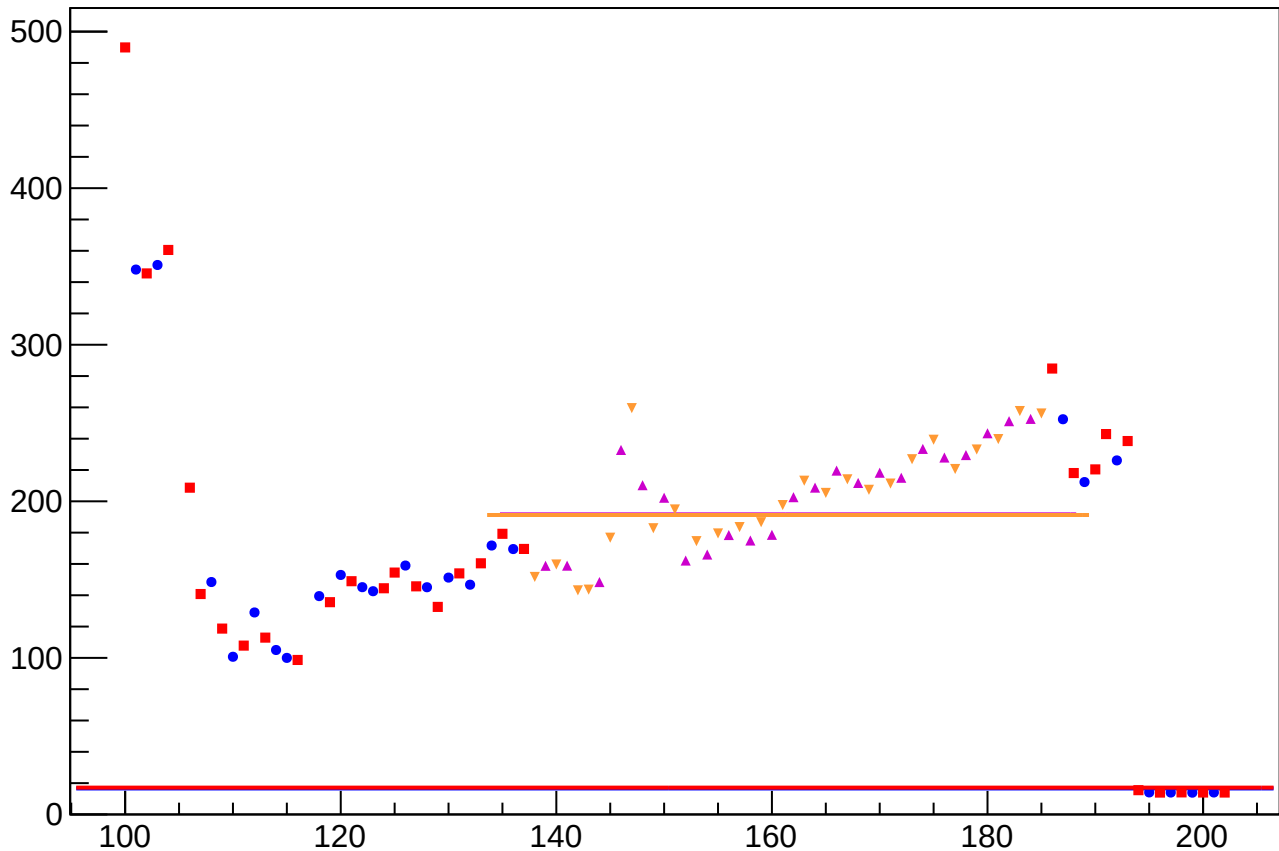
All: 190.132 $\pm$ 0.018 χ^2 /NDF: 6719914.8/100

yield_bpm0l06WS_mean vs Slug, Sign Corrected



Right In: 4737.386 $\pm$ 0.008	χ^2/NDF : 4840411341935.4/23	Left: 126836.943 $\pm$ 0.033	χ^2/NDF : 1211882944.2/23
Left Out: 126981.724 $\pm$ 0.046	χ^2/NDF : 530573115.8/24	Right: 4982.470 $\pm$ 0.005	χ^2/NDF : 10596259051183
Right Out: 5224.050 $\pm$ 0.008	χ^2/NDF : 5753875053785.6/28	In: 7987.248 $\pm$ 0.008	χ^2/NDF : 11395523589173.1
Left In: 126682.659 $\pm$ 0.047	χ^2/NDF : 660415880.0/22	Out: 8627.869 $\pm$ 0.008	χ^2/NDF : 12708239041093
		All: 8310.080 $\pm$ 0.005	χ^2/NDF : 24107276735

yield_bpm0l06WS_rms vs Slug, Sign Corrected



Right In: 16.599 $\pm$ 0.005 χ^2 /NDF: 13190309.0/23

Left Out: 191.263 $\pm$ 0.032 χ^2 /NDF: 992566.2/24

Right Out: 17.137 $\pm$ 0.005 χ^2 /NDF: 15439279.3/28

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

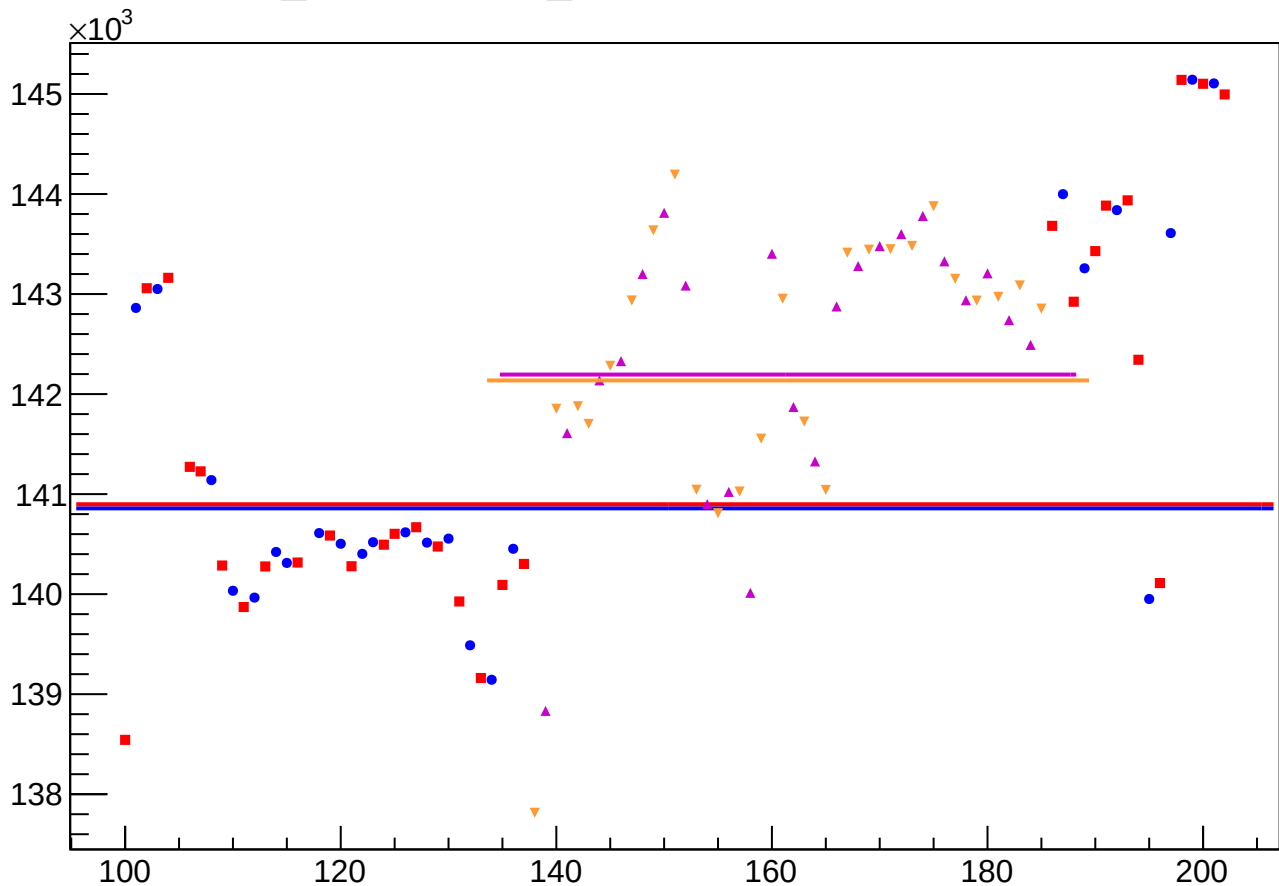
Right: 16.870 $\pm$ 0.004 χ^2 /NDF: 28634413.0/52

In: 21.265 $\pm$ 0.005 χ^2 /NDF: 41077381.0/46

Out: 22.005 $\pm$ 0.005 χ^2 /NDF: 44875779.6/53

All: 21.638 $\pm$ 0.004 χ^2 /NDF: 85962538.0/100

yield_bpm0l07WS_mean vs Slug, Sign Corrected



Right In: 140857.641 $\pm$ 0.059 χ^2 /NDF: 544532644.9/23

Left Out: 142136.579 $\pm$ 0.052 χ^2 /NDF: 815573343.0/24

Right Out: 140898.632 $\pm$ 0.054 χ^2 /NDF: 649973373.8/28

Left In: 142195.020 $\pm$ 0.054 χ^2 /NDF: 644030906.9/22

Left: 142164.953 $\pm$ 0.038 χ^2 /NDF: 1460209902.9/4

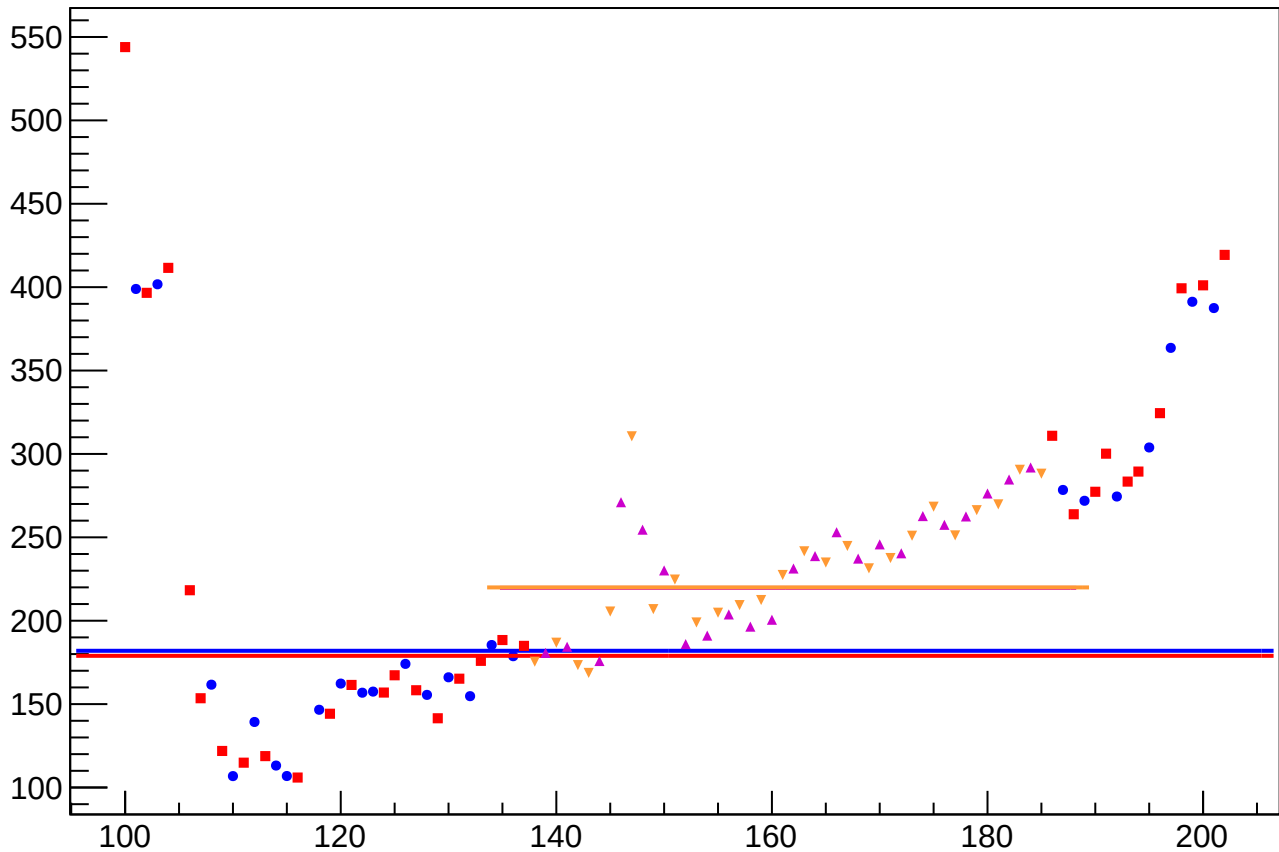
Right: 140879.958 $\pm$ 0.040 χ^2 /NDF: 1194767663.9/4

In: 141588.533 $\pm$ 0.040 χ^2 /NDF: 1468142369.2/4

Out: 141538.113 $\pm$ 0.038 χ^2 /NDF: 1736139930.0/5

All: 141561.884 $\pm$ 0.027 χ^2 /NDF: 320512973.0/10

yield_bpm0l07WS_rms vs Slug, Sign Corrected



Right In: 181.973+/-0.042 χ^2/NDF : 3356794.7/23

Left Out: 219.969+/-0.037 χ^2/NDF : 866616.3/24

Right Out: 178.956+/-0.038 χ^2/NDF : 4380336.0/28

Left In: 219.685+/-0.038 χ^2/NDF : 812745.1/22

Left: 219.831+/-0.027 χ^2/NDF : 1679390.1/47

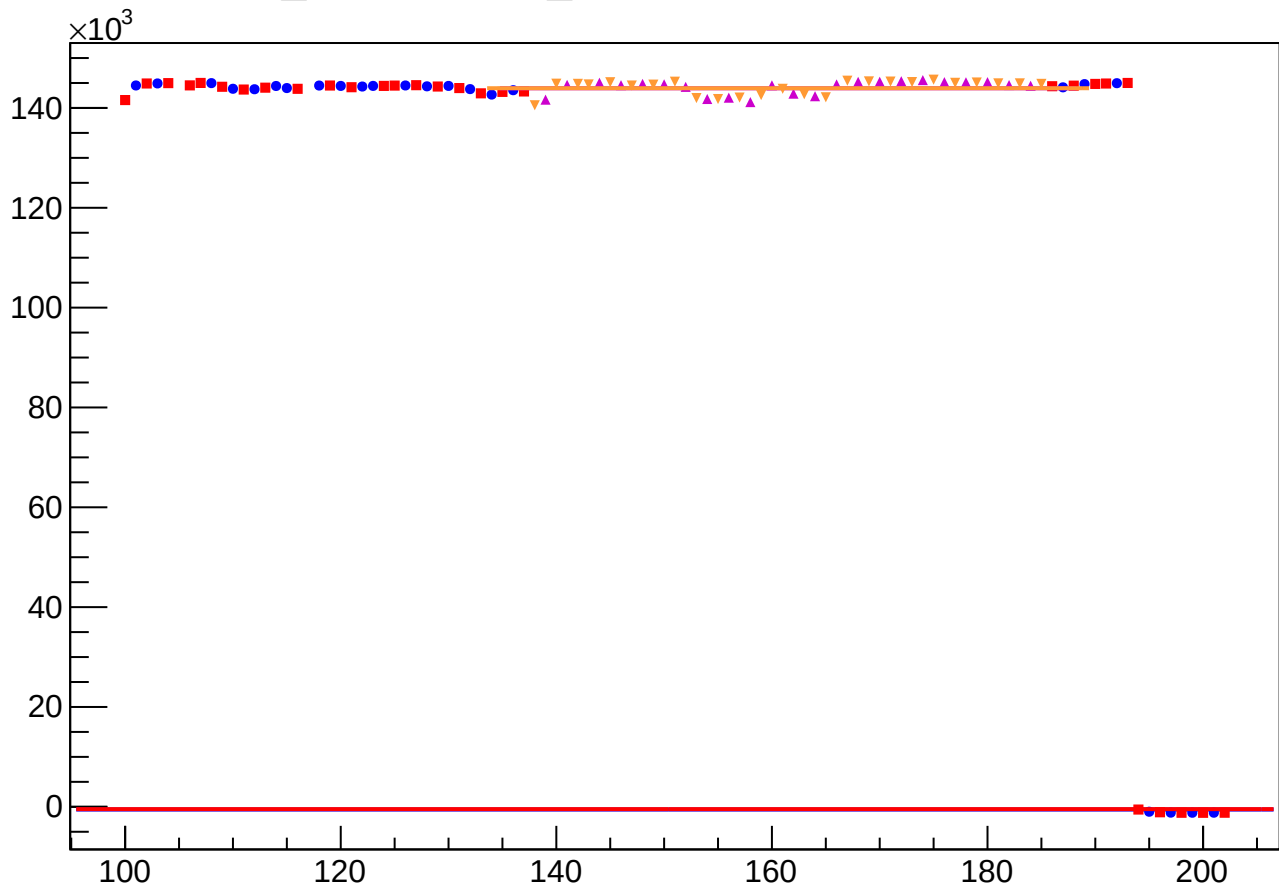
Right: 180.330+/-0.028 χ^2/NDF : 7739966.2/52

In: 202.583+/-0.028 χ^2/NDF : 4614140.2/46

Out: 200.142+/-0.027 χ^2/NDF : 5840960.5/53

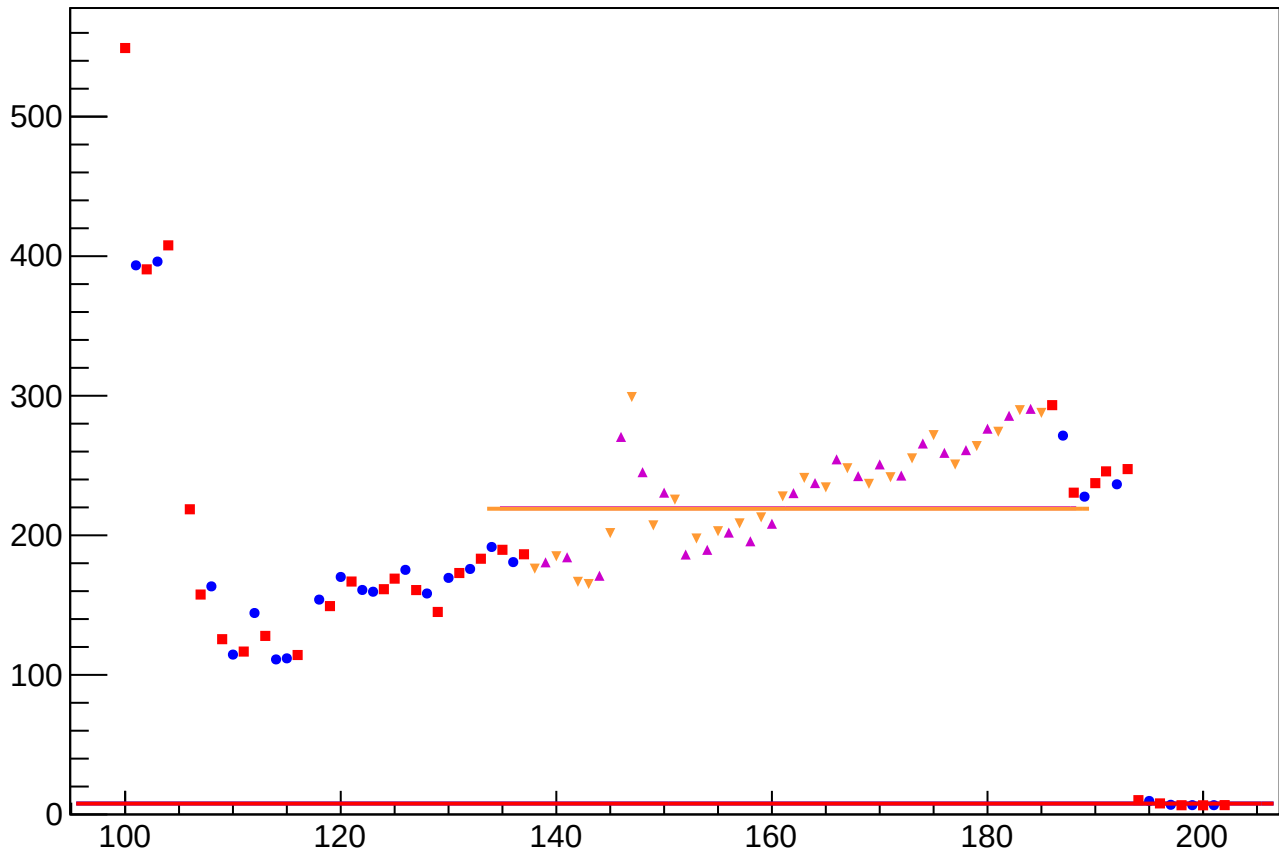
All: 201.293+/-0.019 χ^2/NDF : 10459073.0/10

yield_bpm0l08WS_mean vs Slug, Sign Corrected



Right In: -548.579 ± 0.004 $\chi^2/\text{NDF}: 5283067071221.1/23$
 Left Out: 143951.284 ± 0.052 $\chi^2/\text{NDF}: 864679545.2/24$
 Right Out: -465.311 ± 0.004 $\chi^2/\text{NDF}: 6384552612821.8/28$
 Left In: 143938.288 ± 0.054 $\chi^2/\text{NDF}: 719814685.6/22$
 All: 310.687 ± 0.003 $\chi^2/\text{NDF}: 26459910996$

yield_bpm0l08WS_rms vs Slug, Sign Corrected



Right In: 7.849 ± 0.003 $\chi^2/\text{NDF}: 14837760.6/23$

Left Out: 219.050 ± 0.037 $\chi^2/\text{NDF}: 934417.6/24$

Right Out: 7.780 ± 0.003 $\chi^2/\text{NDF}: 17391415.9/28$

Left In: 219.426 ± 0.038 $\chi^2/\text{NDF}: 850089.5/22$

Left: 219.232 ± 0.026 $\chi^2/\text{NDF}: 1784557.4/47$

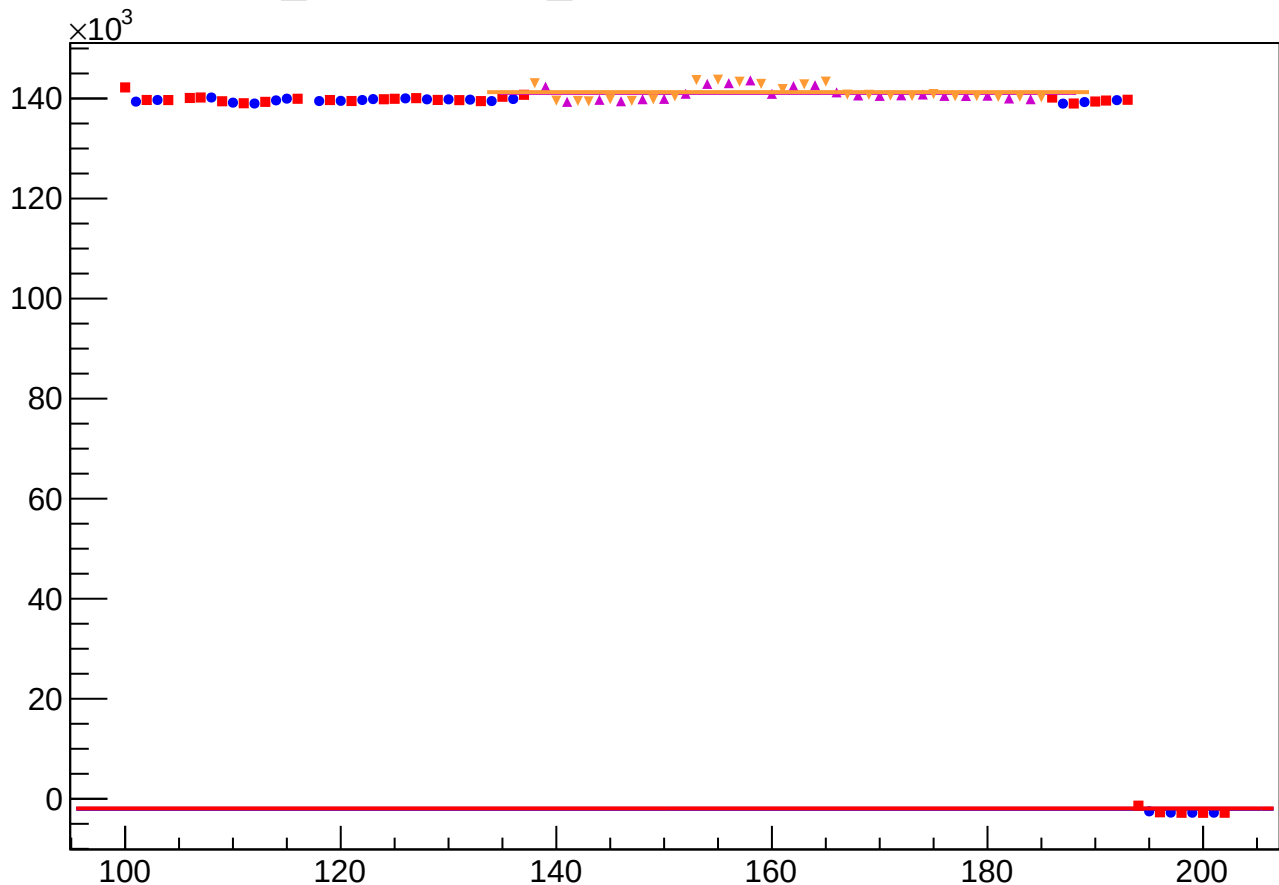
Right: 7.813 ± 0.002 $\chi^2/\text{NDF}: 32229474.8/52$

In: 9.046 ± 0.003 $\chi^2/\text{NDF}: 46397346.4/46$

Out: 8.971 ± 0.003 $\chi^2/\text{NDF}: 50983050.8/53$

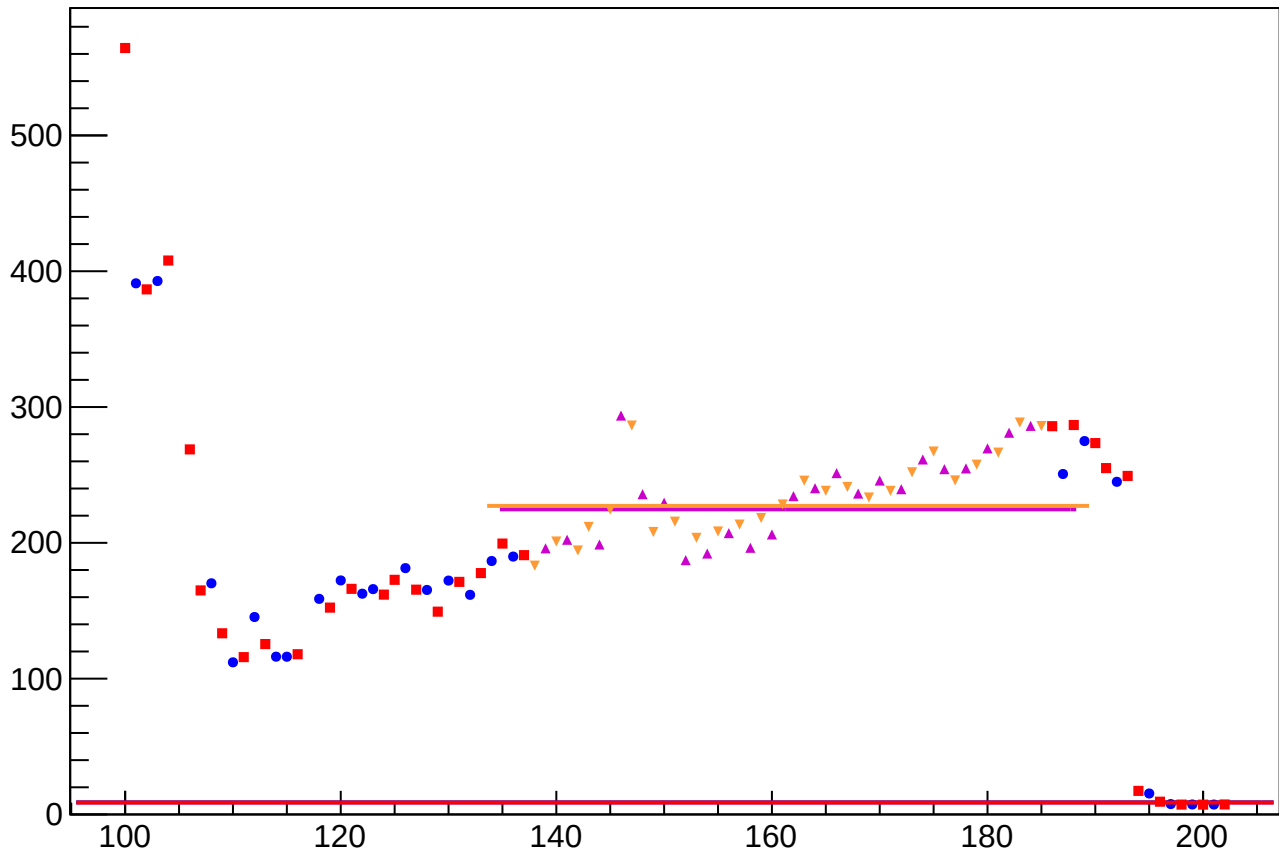
All: 9.008 ± 0.002 $\chi^2/\text{NDF}: 97380750.7/100$

yield_bpm0l09WS_mean vs Slug, Sign Corrected



Right In: -2002.566 $\pm$ 0.005	χ^2 /NDF: 4850015639375.5/23	Left: 141195.809 $\pm$ 0.038	χ^2 /NDF: 1365080862.2/24
Left Out: 141268.791 $\pm$ 0.054	χ^2 /NDF: 795989244.2/24	Right: -1963.240 $\pm$ 0.003	χ^2 /NDF: 1062242084555.0/24
Right Out: -1927.268 $\pm$ 0.004	χ^2 /NDF: 5772269615710.0/28	In: -973.548 $\pm$ 0.005	χ^2 /NDF: 11594272563932.3/28
Left In: 141119.484 $\pm$ 0.055	χ^2 /NDF: 565312728.1/22	Out: -942.059 $\pm$ 0.004	χ^2 /NDF: 12835131300093.6/22
		All: -957.105 $\pm$ 0.003	χ^2 /NDF: 24429427745.0/22

yield_bpm0l09WS_rms vs Slug, Sign Corrected



Right In: 8.902 ± 0.003 χ^2/NDF : 14959861.9/23

Left Out: 227.224 ± 0.038 χ^2/NDF : 484955.3/24

Right Out: 8.777 ± 0.003 χ^2/NDF : 17406263.7/28

Left In: 224.686 ± 0.039 χ^2/NDF : 578366.0/22

Left: 225.984 ± 0.027 χ^2/NDF : 1065504.5/47

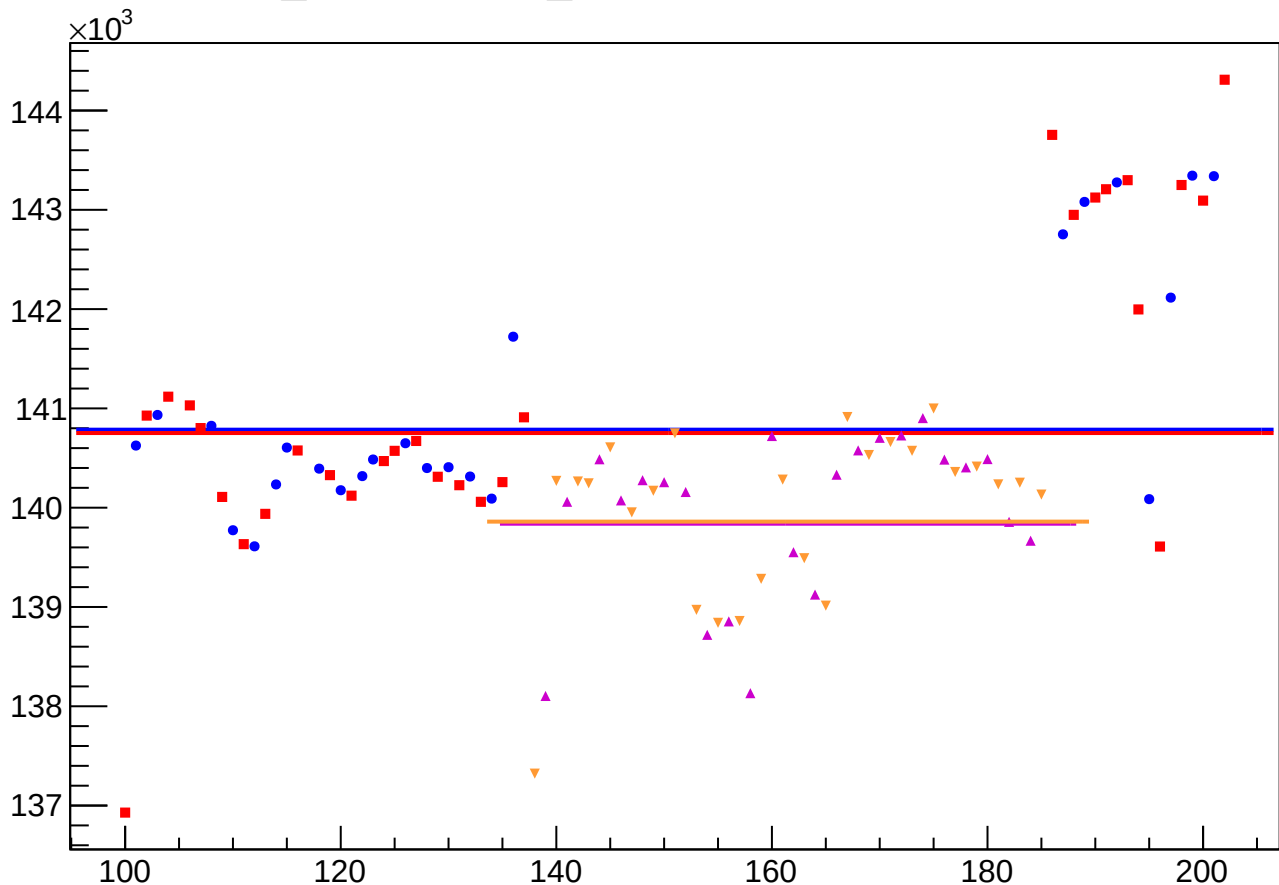
Right: 8.837 ± 0.002 χ^2/NDF : 32366875.5/52

In: 10.454 ± 0.003 χ^2/NDF : 46196920.2/46

Out: 10.280 ± 0.003 χ^2/NDF : 50760622.7/53

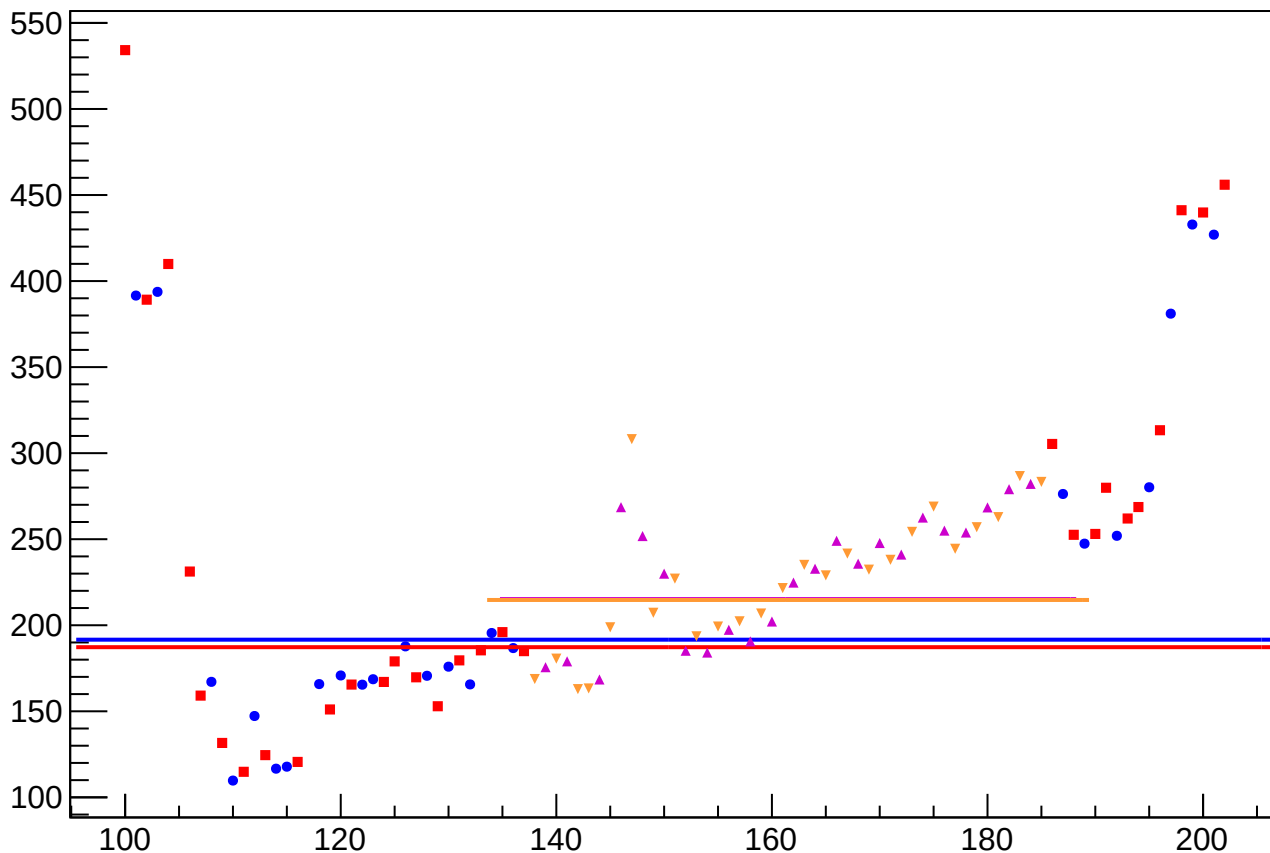
All: 10.363 ± 0.002 χ^2/NDF : 96958996.4/100

yield_bpm0l10WS_mean vs Slug, Sign Corrected



Right In: 140785.643 $\pm$ 0.062	χ^2 /NDF: 307257669.5/23	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: 140767.085 $\pm$ 0.042	χ^2 /NDF: 734059429.1/50
Right Out: 140751.818 $\pm$ 0.056	χ^2 /NDF: 426637853.4/28	In: 140237.632 $\pm$ 0.040	χ^2 /NDF: 722331319.3/46
Left In: 139838.724 $\pm$ 0.053	χ^2 /NDF: 279573689.3/22	Out: 140263.974 $\pm$ 0.038	χ^2 /NDF: 894894028.8/53
		All: 140251.606 $\pm$ 0.028	χ^2 /NDF: 161745352.0/103

yield_bpm0l10WS_rms vs Slug, Sign Corrected



Right In: 191.614 $\pm$ 0.044 χ^2 /NDF: 3040481.8/23

Left Out: 214.693 $\pm$ 0.036 χ^2 /NDF:981105.5/24

Right Out: 187.258 $\pm$ 0.040 χ^2 /NDF: 3958857.5/28

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

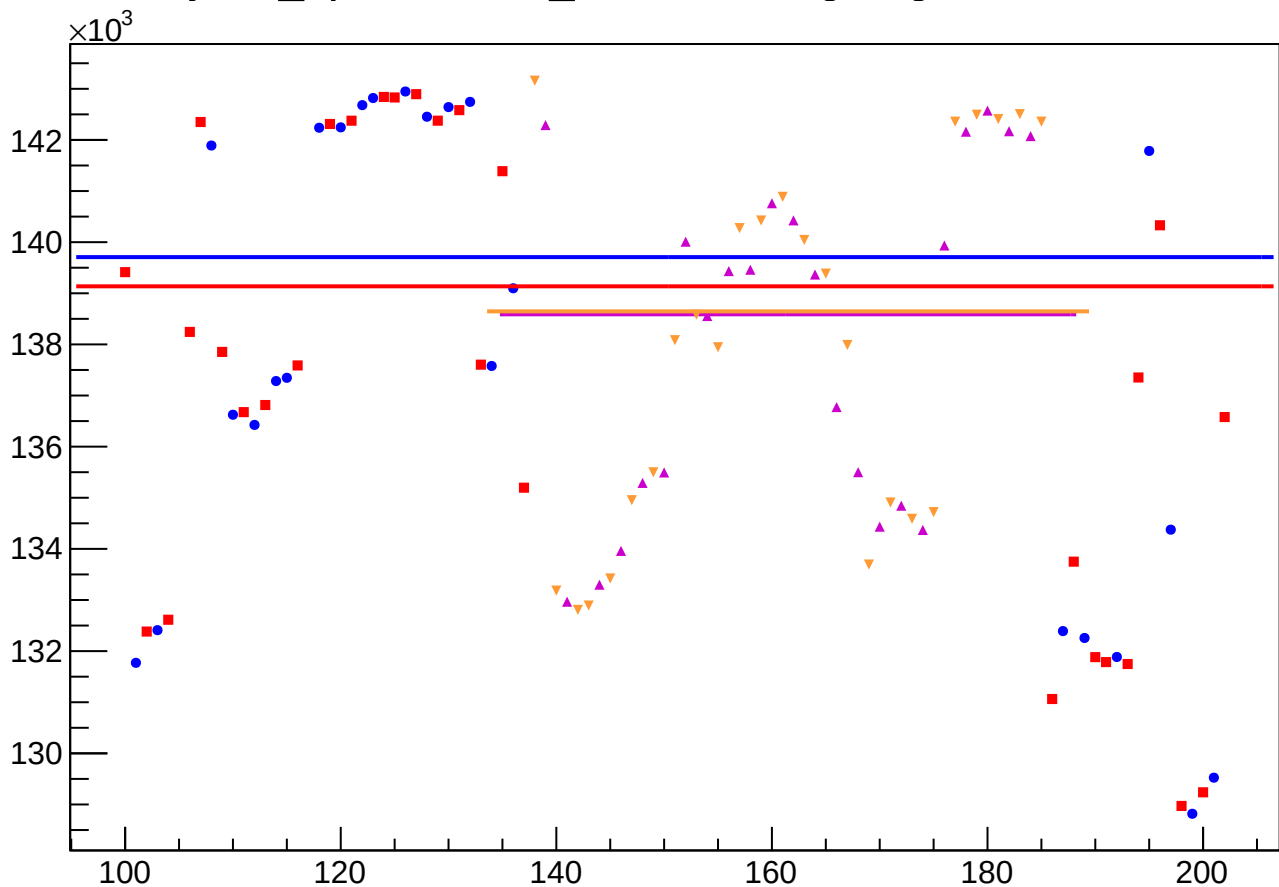
Right: 189.224 $\pm$ 0.029 χ^2 /NDF: 7004776.7/52

In: 205.277 $\pm$ 0.028 χ^2 /NDF:4090864.2/46

Out: 202.260 $\pm$ 0.027 χ^2 /NDF:5201234.0/53

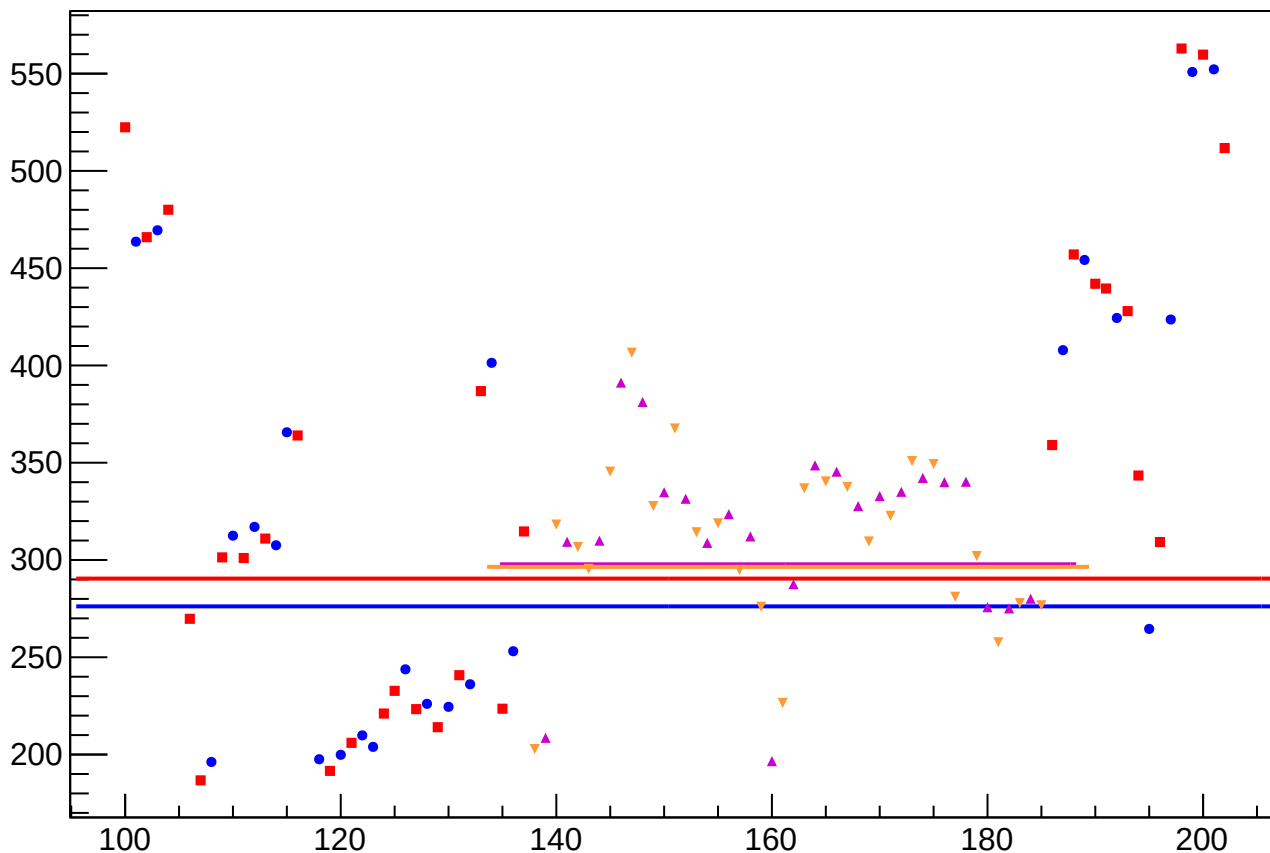
All: 203.676 $\pm$ 0.019 χ^2 /NDF: 9298081.9/100

yield_bpm0r03WS_mean vs Slug, Sign Corrected



Right In: 139707.665 $\pm$ 0.088	χ^2 /NDF: 2166209877.8/23	Left: 138618.660 $\pm$ 0.051	χ^2 /NDF: 4497021019.3/4
Left Out: 138646.366 $\pm$ 0.071	χ^2 /NDF: 2548637600.4/24	Right: 139412.452 $\pm$ 0.061	χ^2 /NDF: 4520032783.2/24
Right Out: 139136.125 $\pm$ 0.085	χ^2 /NDF: 2332177111.5/28	In: 139047.950 $\pm$ 0.057	χ^2 /NDF: 4208977117.8/40
Left In: 138588.711 $\pm$ 0.074	χ^2 /NDF: 1948065195.1/22	Out: 138845.983 $\pm$ 0.055	χ^2 /NDF: 4900290617.7/5
		All: 138943.280 $\pm$ 0.039	χ^2 /NDF: 911587563.2/22

yield_bpm0r03WS_rms vs Slug, Sign Corrected



Right In: 276.162 $\pm$ 0.062 χ^2 /NDF: 2408925.0/23

Left Out: 296.464 $\pm$ 0.050 χ^2 /NDF:893579.7/24

Right Out: 290.438 $\pm$ 0.060 χ^2 /NDF: 2901081.2/28

Left In: 297.774 $\pm$ 0.052 χ^2 /NDF:1061489.5/22

Left: 297.094 $\pm$ 0.036 χ^2 /NDF: 1955397.8/47

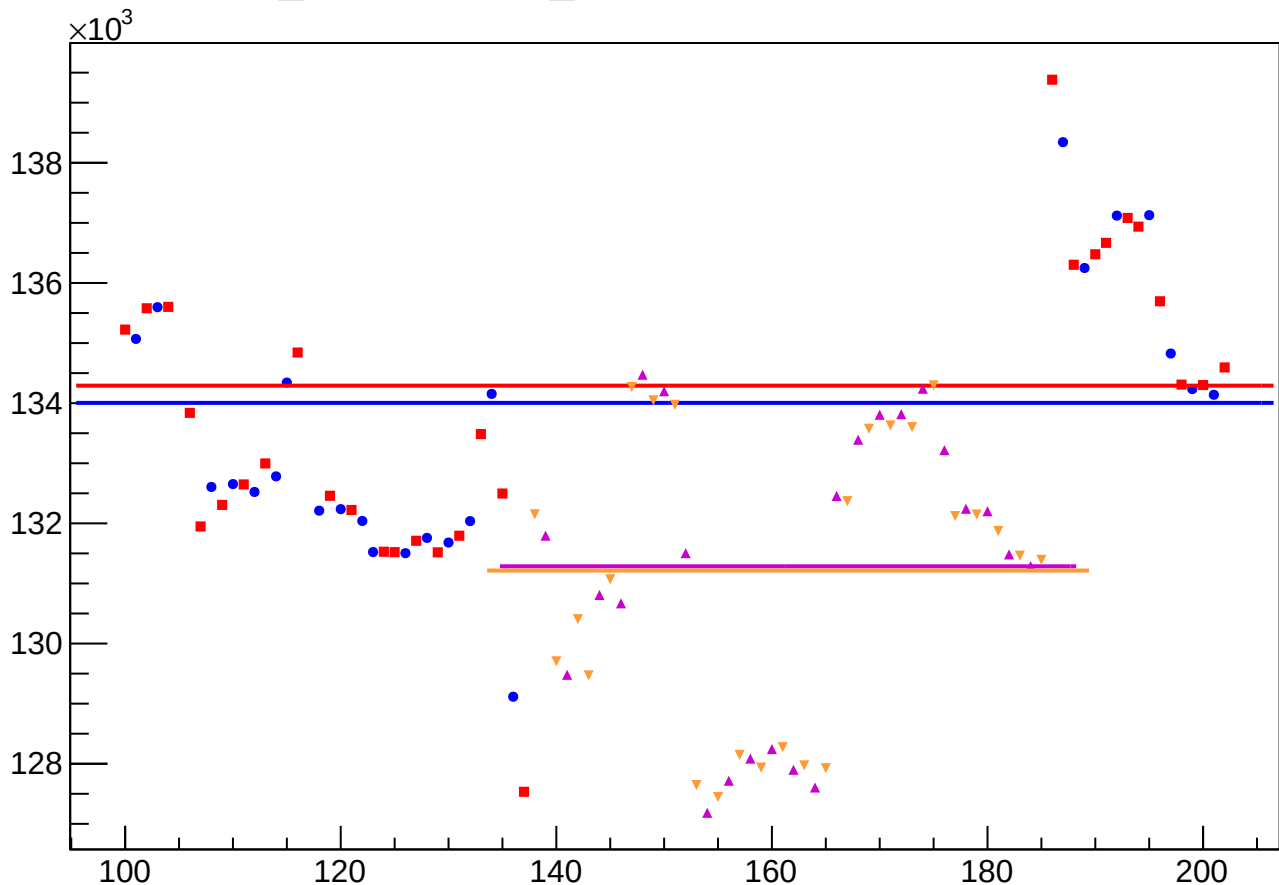
Right: 283.536 $\pm$ 0.043 χ^2 /NDF: 5337015.8/52

In: 288.904 $\pm$ 0.040 χ^2 /NDF:3541072.7/46

Out: 294.008 $\pm$ 0.039 χ^2 /NDF:3800558.6/53

All: 291.549 $\pm$ 0.028 χ^2 /NDF: 7350071.3/100

yield_bpm0r05WS_mean vs Slug, Sign Corrected



Right In: 134004.909 $\pm$ 0.087

χ^2 /NDF: 590812288.8/23

Left: 131248.166 $\pm$ 0.047

χ^2 /NDF: 2230223308.9/4

Left Out: 131214.985 $\pm$ 0.064

χ^2 /NDF: 1173424494.6/24

Right: 134165.221 $\pm$ 0.058

χ^2 /NDF: 1274020681.2/4

Right Out: 134291.614 $\pm$ 0.077

χ^2 /NDF: 677129384.0/28

In: 132323.862 $\pm$ 0.054

χ^2 /NDF: 2251637519.0/40

Out: 132475.338 $\pm$ 0.049

χ^2 /NDF: 2787965280.9/5

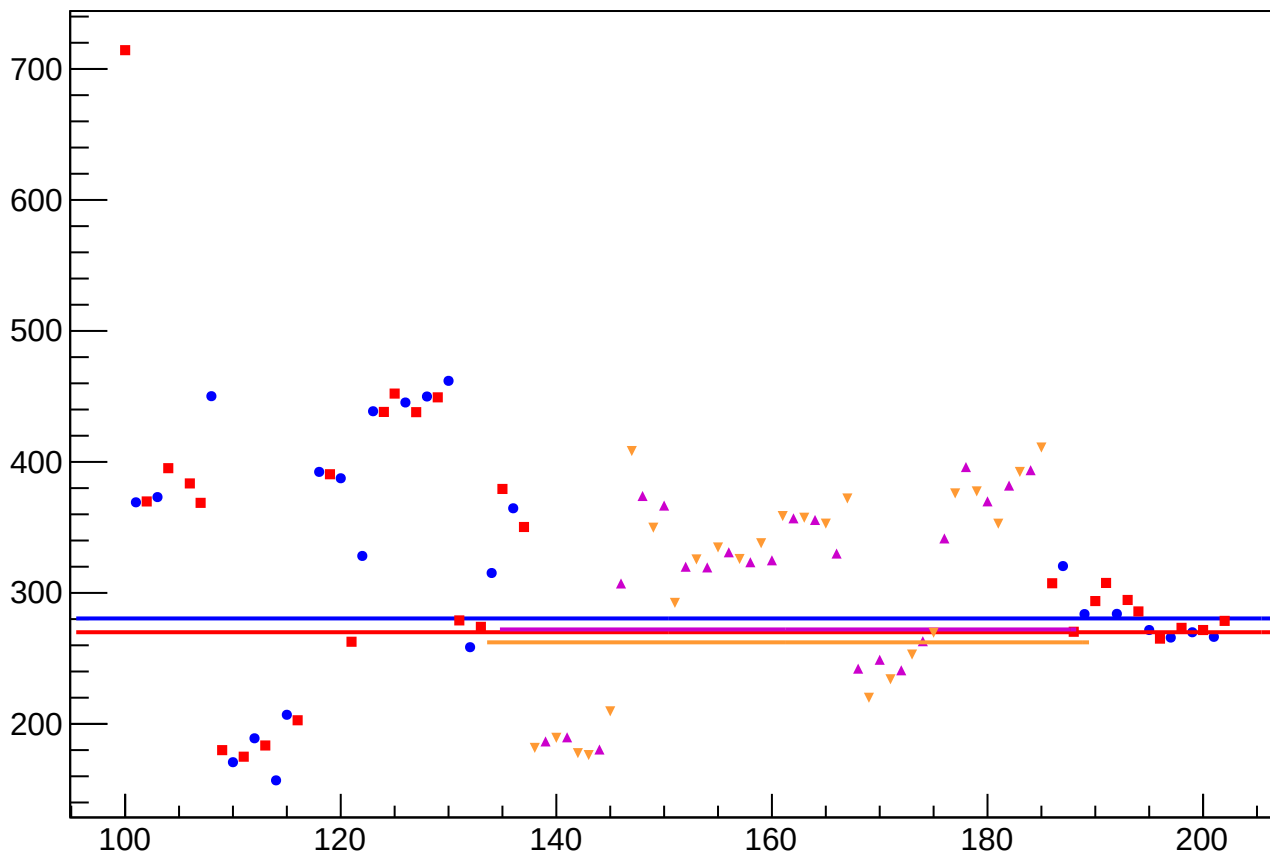
Left In: 131285.623 $\pm$ 0.068

χ^2 /NDF: 1056232192.1/22

All: 132405.922 $\pm$ 0.036

χ^2 /NDF: 504390860.0/100

yield_bpm0r05WS_rms vs Slug, Sign Corrected



Right In: 280.507 ± 0.061 $\chi^2/\text{NDF}: 1536614.2/23$

Left Out: 262.260 ± 0.045 $\chi^2/\text{NDF}: 2818169.1/24$

Right Out: 269.987 ± 0.055 $\chi^2/\text{NDF}: 1668031.5/28$

Left In: 272.115 ± 0.048 $\chi^2/\text{NDF}: 2221925.0/22$

Left: 266.889 ± 0.033 $\chi^2/\text{NDF}: 5062151.8/47$

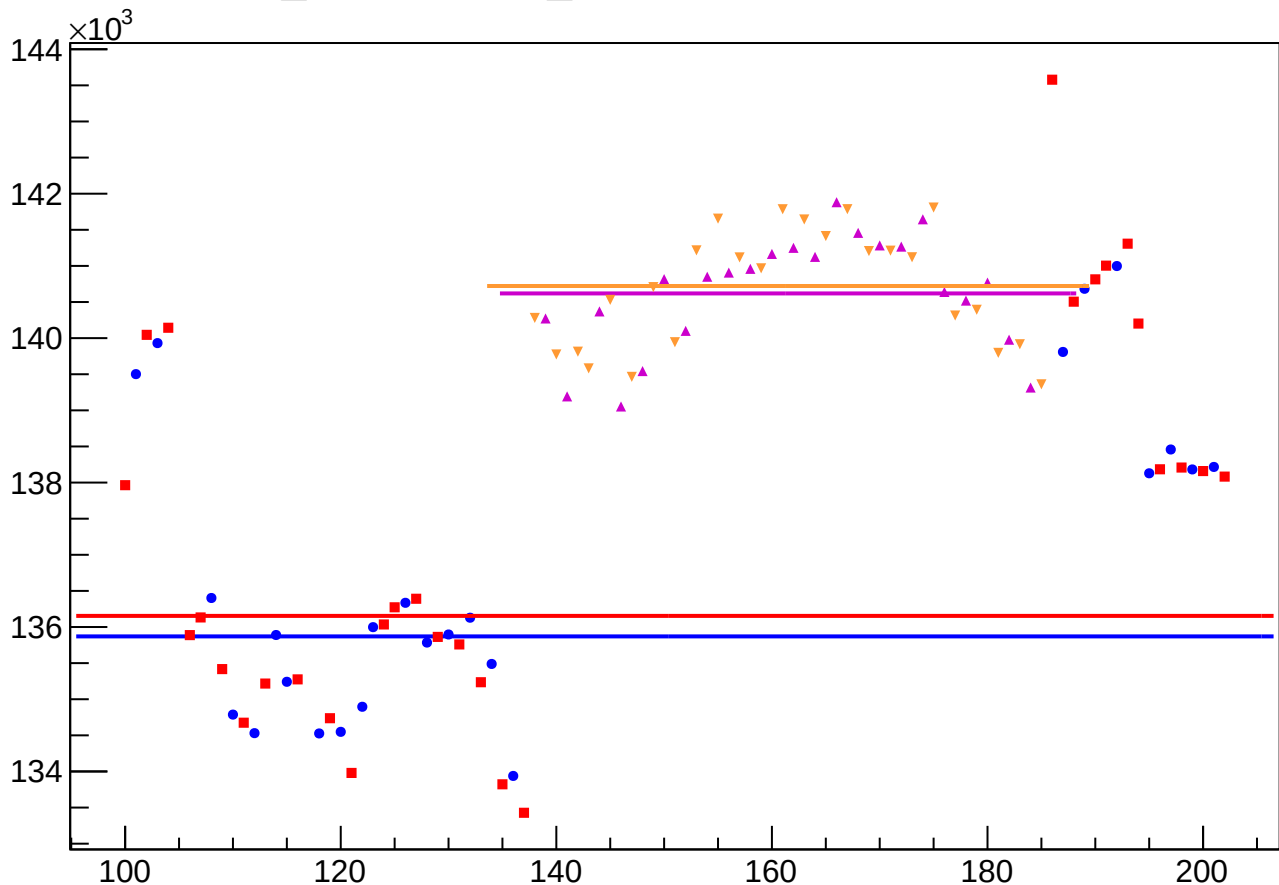
Right: 274.625 ± 0.041 $\chi^2/\text{NDF}: 3221015.6/52$

In: 275.319 ± 0.038 $\chi^2/\text{NDF}: 3770056.5/46$

Out: 265.425 ± 0.035 $\chi^2/\text{NDF}: 4498026.9/53$

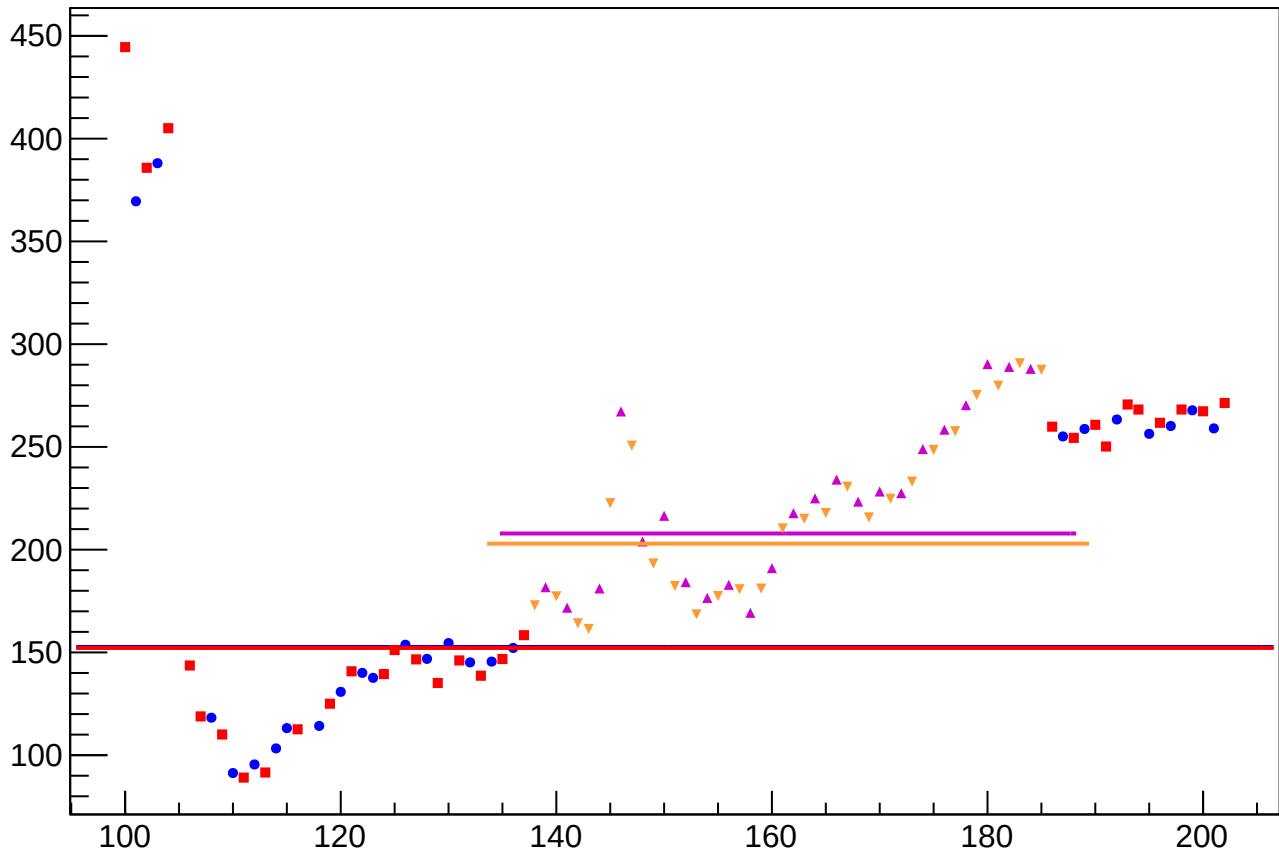
All: 269.959 ± 0.026 $\chi^2/\text{NDF}: 8304823.0/100$

yield_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 135870.116+/-0.050	χ^2/NDF : 1322172584.5/23	Left: 140673.196+/-0.035	χ^2/NDF : 449761004.9/47
Left Out: 140721.823+/-0.048	χ^2/NDF : 247257762.8/24	Right: 136022.800+/-0.034	χ^2/NDF : 3363690136.2/24
Right Out: 136154.068+/-0.046	χ^2/NDF : 2023888092.0/28	In: 138174.081+/-0.036	χ^2/NDF : 5971636771.9/40
Left In: 140619.038+/-0.051	χ^2/NDF : 200370178.0/22	Out: 138320.670+/-0.033	χ^2/NDF : 6951884707.9/50
		All: 138252.144+/-0.024	χ^2/NDF : 129325594.0/100

yield_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 152.644 $\pm$ 0.035 χ^2 /NDF: 3326478.9/23

Left Out: 202.934 $\pm$ 0.034 χ^2 /NDF:1052283.6/24

Right Out: 152.179 $\pm$ 0.033 χ^2 /NDF: 4254063.9/28

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

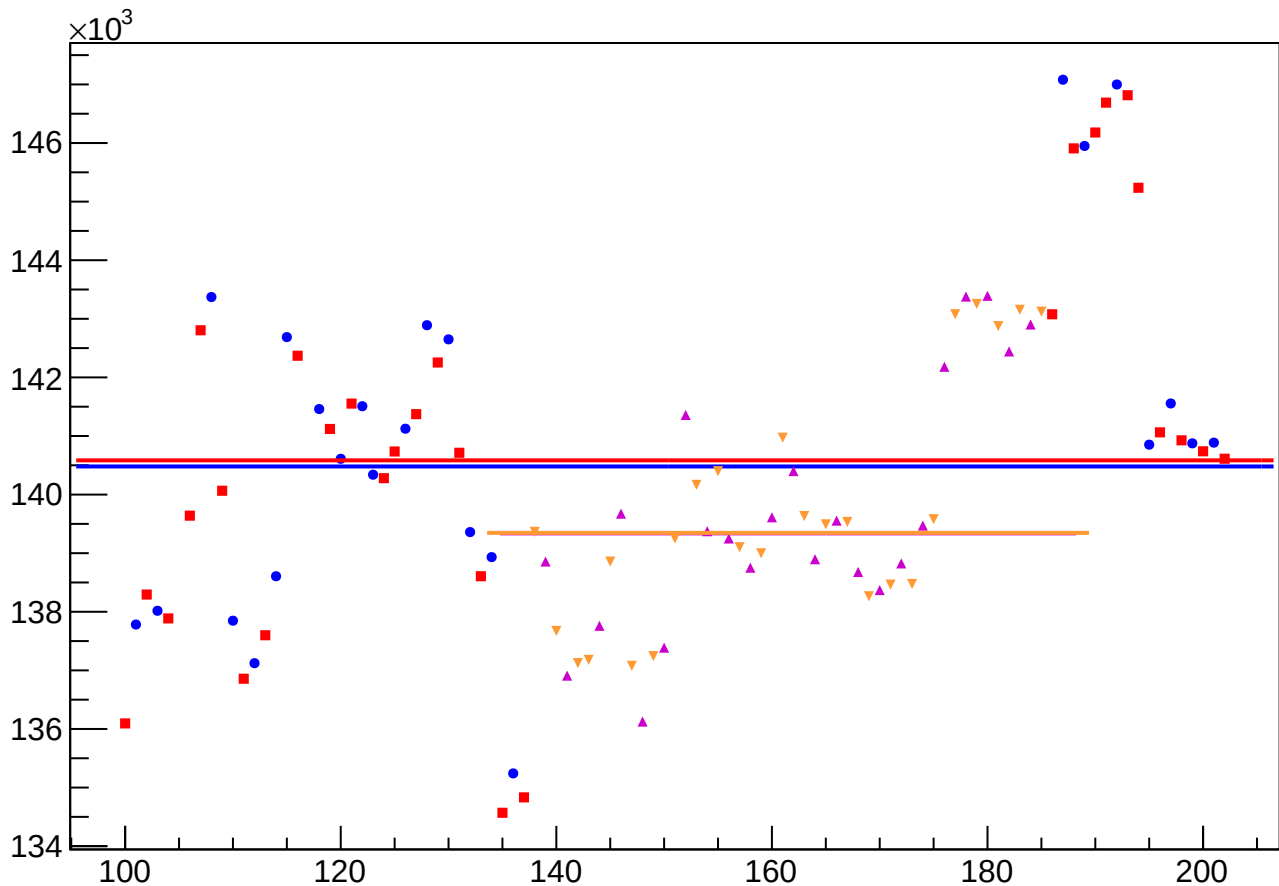
Right: 152.394 $\pm$ 0.024 χ^2 /NDF: 7580637.3/52

In: 179.438 $\pm$ 0.025 χ^2 /NDF:5479143.7/46

Out: 176.253 $\pm$ 0.024 χ^2 /NDF:6462194.7/53

All: 177.742 $\pm$ 0.017 χ^2 /NDF: 11949869.6/100

yield_bpm0i02aWS_mean vs Slug, Sign Corrected



Left: 139342.403 $\pm$ 0.035 χ^2 /NDF: 2564192227.9/4

Right: 140535.794 $\pm$ 0.038 χ^2 /NDF: 5983995822.9/4

In: 139859.897 $\pm$ 0.037 χ^2 /NDF: 4294490641.5/40

Out: 139931.717 $\pm$ 0.036 χ^2 /NDF: 4784540669.5/5

All: 139897.678 $\pm$ 0.026 χ^2 /NDF: 908096495.1/45

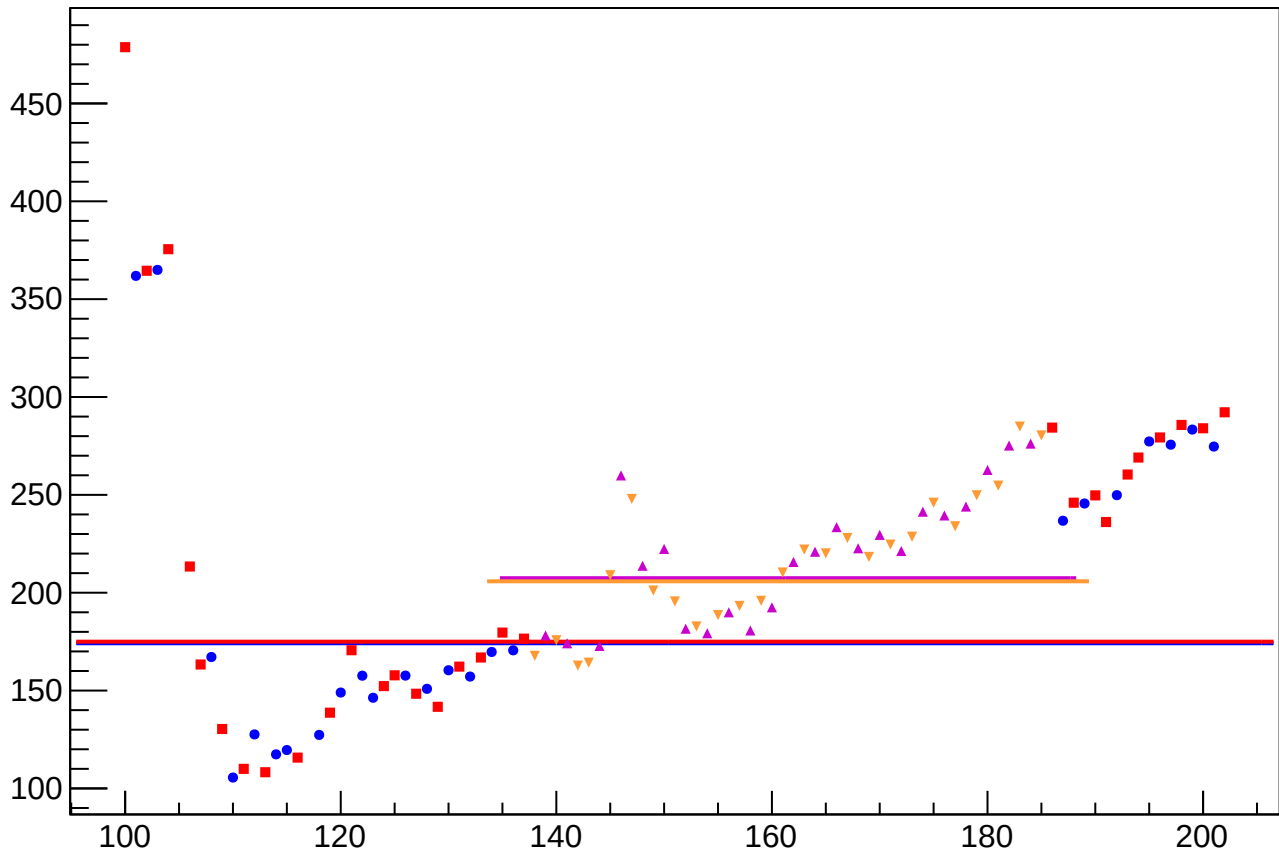
Right In: 140479.988 $\pm$ 0.055 χ^2 /NDF: 2770807011.9/23

Left Out: 139346.604 $\pm$ 0.049 χ^2 /NDF: 1271172976.7/24

Right Out: 140584.408 $\pm$ 0.052 χ^2 /NDF: 3211290795.1/28

Left In: 139337.874 $\pm$ 0.051 χ^2 /NDF: 1293003954.9/22

yield_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 174.177+/-0.039 χ^2/NDF : 2484818.0/23

Left Out: 205.833+/-0.035 χ^2/NDF : 738666.4/24

Right Out: 174.982+/-0.037 χ^2/NDF : 3240979.2/28

Left In: 207.416+/-0.036 χ^2/NDF : 701955.3/22

Left: 206.595+/-0.025 χ^2/NDF : 1441628.2/47

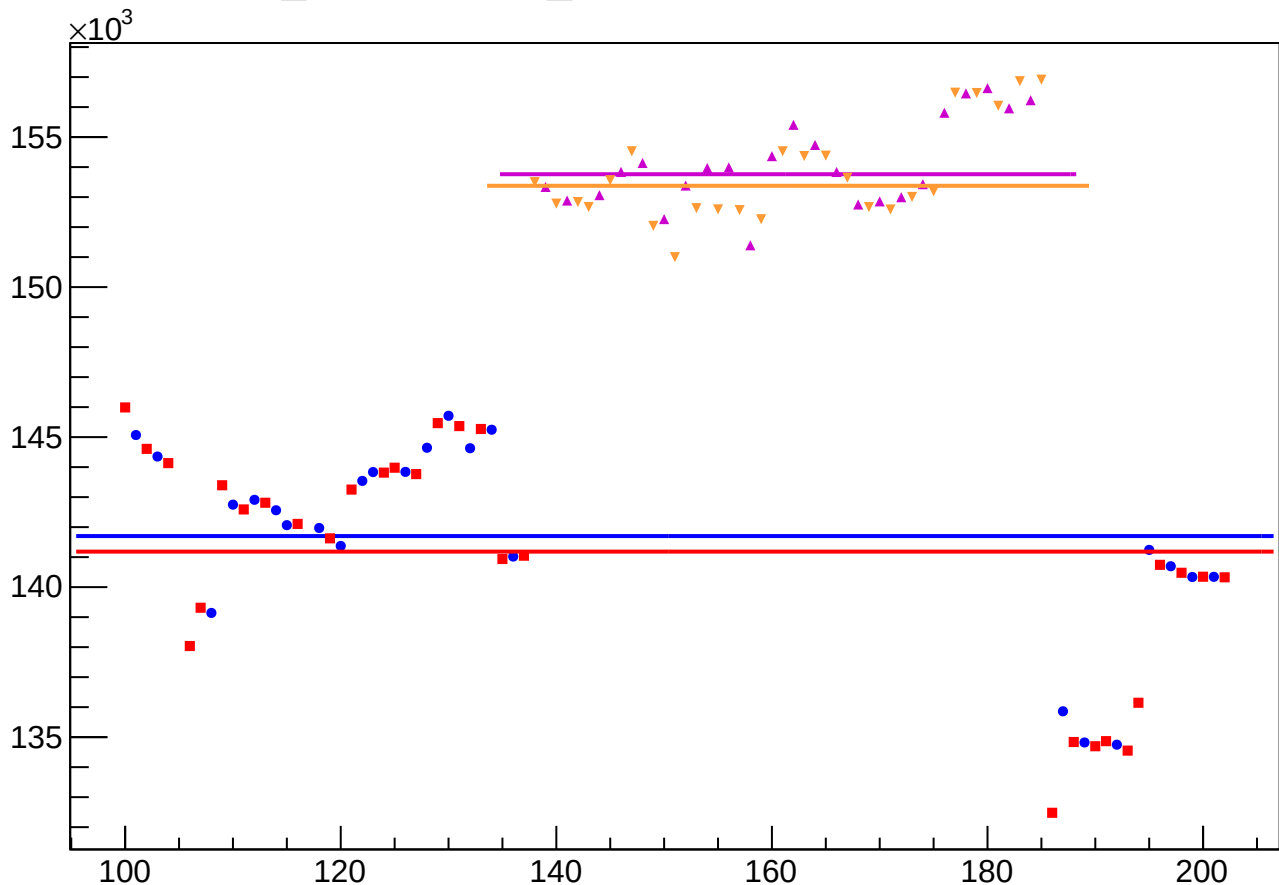
Right: 174.607+/-0.027 χ^2/NDF : 5726022.9/52

In: 192.224+/-0.026 χ^2/NDF : 3577548.6/46

Out: 191.250+/-0.025 χ^2/NDF : 4354945.0/53

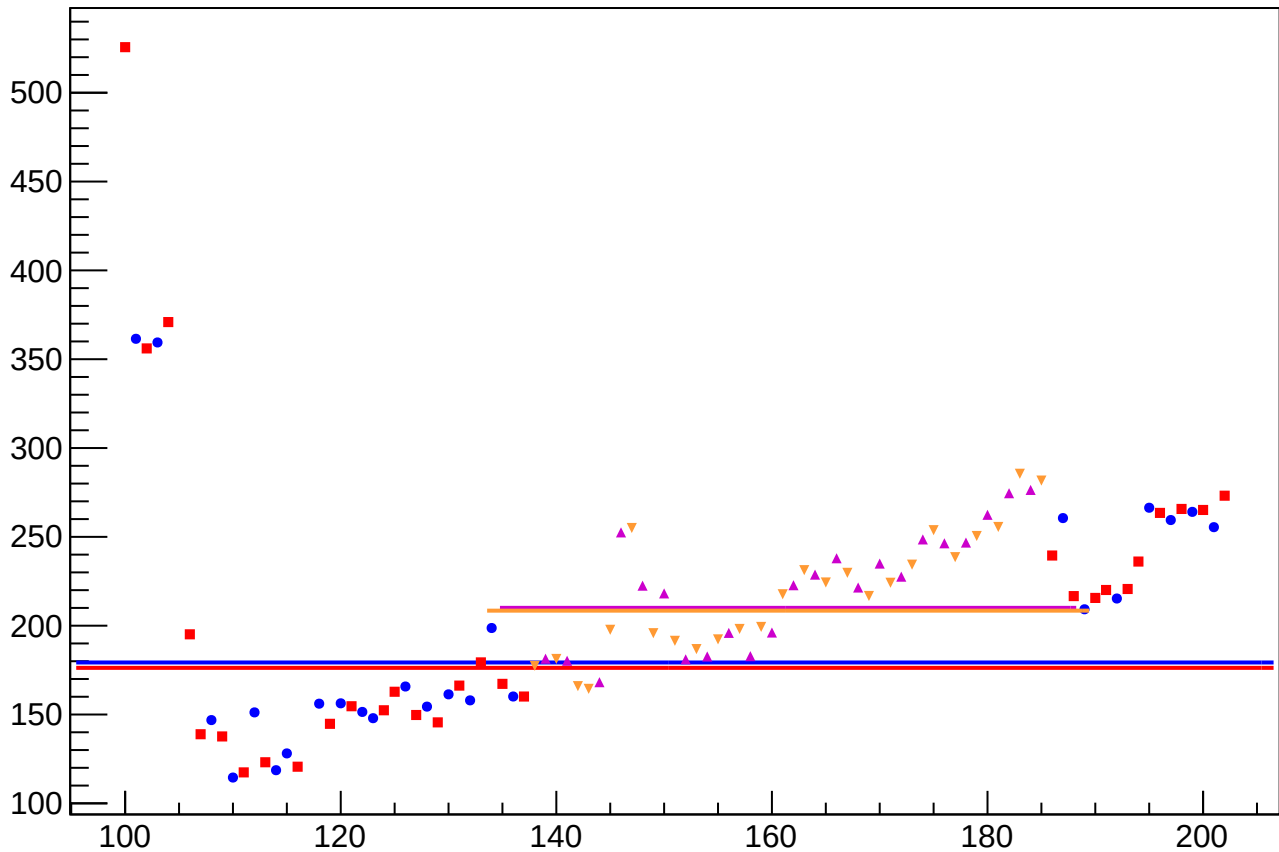
All: 191.711+/-0.018 χ^2/NDF : 7933205.0/100

yield_bpm0i05WS_mean vs Slug, Sign Corrected



Right In: 141702.006+/-0.056	χ^2/NDF : 2642418394.2/23	Left: 153562.262+/-0.036	χ^2/NDF : 1468093411.3/4
Left Out: 153376.698+/-0.050	χ^2/NDF : 803848095.1/24	Right: 141418.664+/-0.038	χ^2/NDF : 7100094937.9/4
Right Out: 141183.528+/-0.051	χ^2/NDF : 4411062264.6/28	In: 148257.196+/-0.038	χ^2/NDF : 28363153106.5/4
Left In: 153762.419+/-0.051	χ^2/NDF : 635075685.0/22	Out: 147474.412+/-0.036	χ^2/NDF : 34544012065.0/4
		All: 147840.829+/-0.026	χ^2/NDF : 631337258.0/4

yield_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 179.291+/-0.040 χ^2/NDF : 1821113.6/23

Left Out: 208.466+/-0.035 χ^2/NDF : 720894.7/24

Right Out: 176.269+/-0.036 χ^2/NDF : 2336798.9/28

Left In: 210.038+/-0.036 χ^2/NDF : 702369.5/22

Left: 209.222+/-0.025 χ^2/NDF : 1424233.1/47

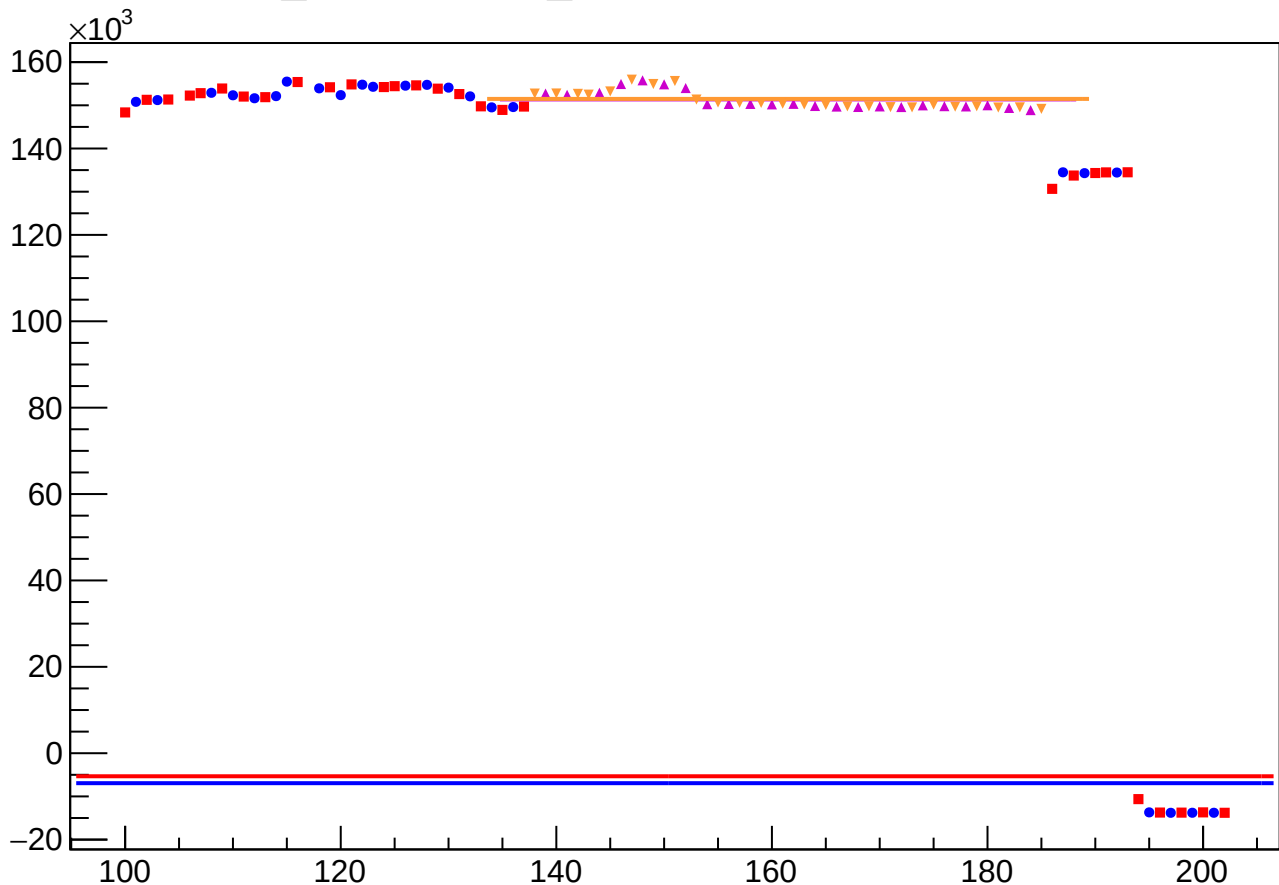
Right: 177.640+/-0.027 χ^2/NDF : 4161079.6/52

In: 196.003+/-0.027 χ^2/NDF : 2849566.6/46

Out: 192.881+/-0.025 χ^2/NDF : 3466690.0/53

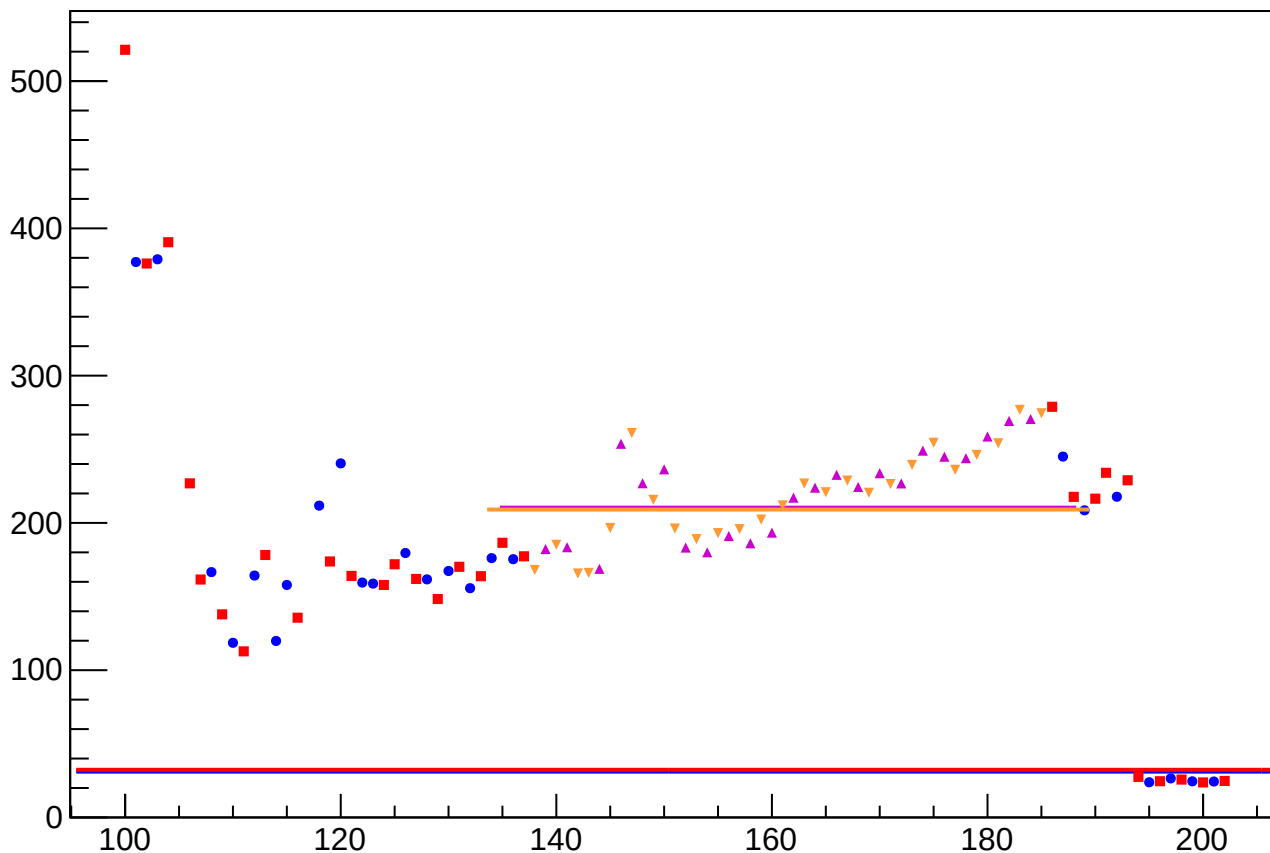
All: 194.342+/-0.018 χ^2/NDF : 6323465.5/100

yield_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -6936.383+/-0.014 χ^2/NDF : 5763332127994.1/23
 Left Out: 151483.385+/-0.050 χ^2/NDF : 1481910066.9/24
 Right Out: -5336.496+/-0.013 χ^2/NDF : 6998362109491.7/28
 Left In: 151363.165+/-0.051 χ^2/NDF : 1421662089.0/22
 Left: 151425.512+/-0.036 χ^2/NDF : 2906409079.9/23
 Right: -6122.294+/-0.010 χ^2/NDF : 1276869334302.1/24
 In: 3479.468+/-0.013 χ^2/NDF : 14625209453430.8
 Out: 5365.318+/-0.013 χ^2/NDF : 16343160970867.1
 All: 4440.302+/-0.009 χ^2/NDF : 30978793511.1/24

yield_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 31.147 $\pm$ 0.010 χ^2 /NDF: 11308834.0/23

Left Out: 209.076 $\pm$ 0.035 χ^2 /NDF: 708260.3/24

Right Out: 32.380 $\pm$ 0.009 χ^2 /NDF: 13169014.5/28

Left In: 210.345 $\pm$ 0.036 χ^2 /NDF: 677747.7/22

Left: 209.687 $\pm$ 0.025 χ^2 /NDF: 1386640.1/47

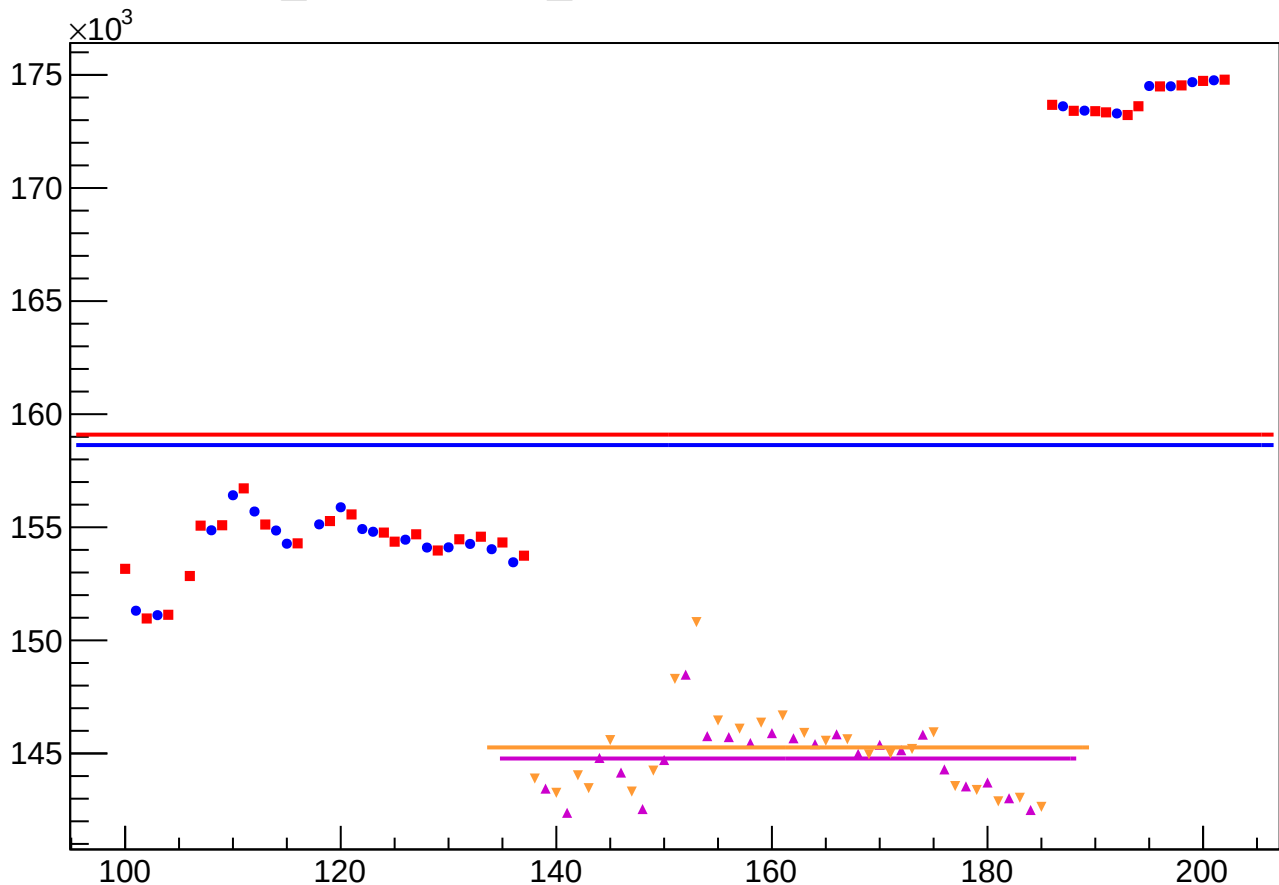
Right: 31.775 $\pm$ 0.007 χ^2 /NDF: 24486161.2/52

In: 42.938 $\pm$ 0.009 χ^2 /NDF: 34695174.3/46

Out: 44.438 $\pm$ 0.009 χ^2 /NDF: 37600873.6/53

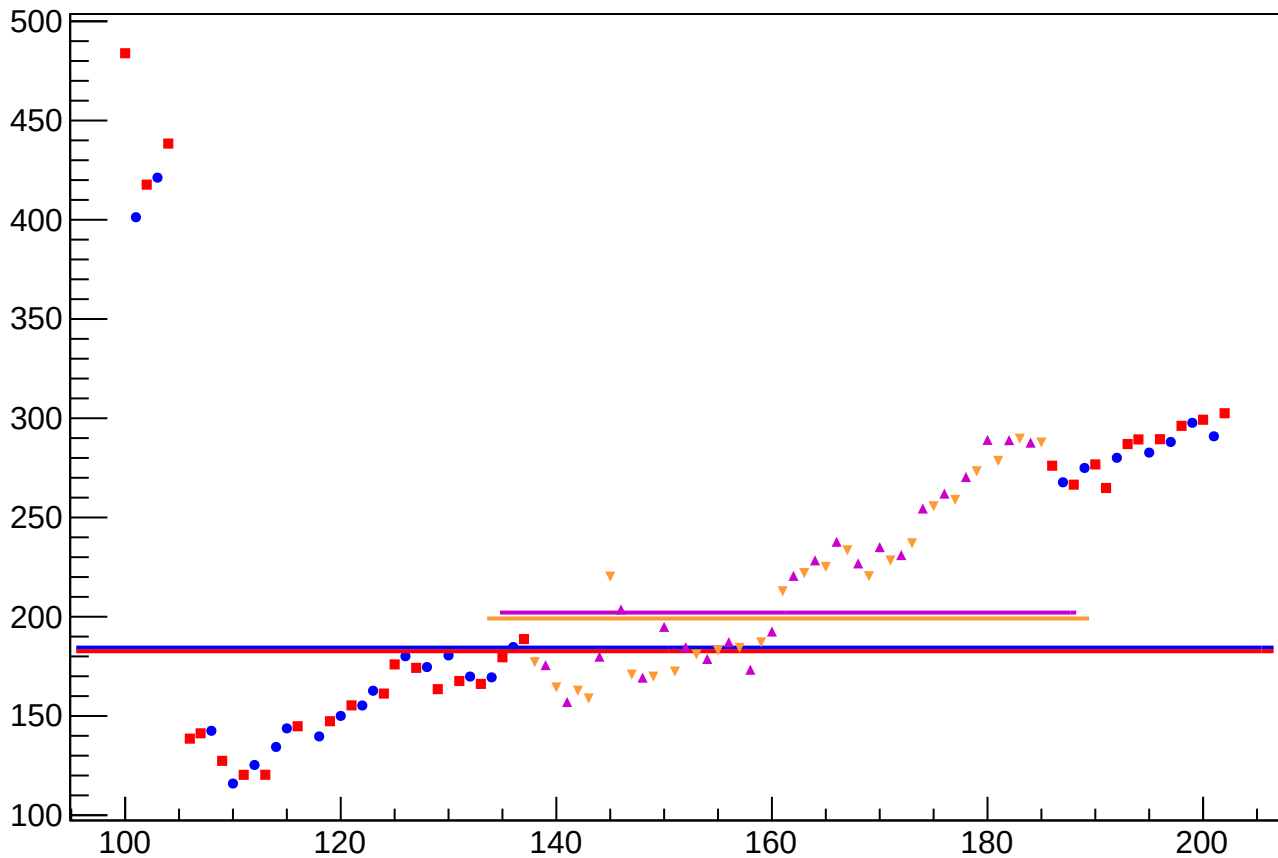
All: 43.703 $\pm$ 0.007 χ^2 /NDF: 72309239.7/100

yield_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: 158634.287 $\pm$ 0.059	χ^2 /NDF: 17704598771.5/23	Left: 145032.324 $\pm$ 0.034	χ^2 /NDF: 2687033506.0/4
Left Out: 145266.717 $\pm$ 0.047	χ^2 /NDF: 1717707352.7/24	Right: 158885.494 $\pm$ 0.040	χ^2 /NDF: 40099564637.9/4
Right Out: 159096.058 $\pm$ 0.054	χ^2 /NDF: 22361206488.5/28	In: 150552.791 $\pm$ 0.038	χ^2 /NDF: 51216587510.8/4
Left In: 144776.016 $\pm$ 0.050	χ^2 /NDF: 918120275.4/22	Out: 151326.204 $\pm$ 0.036	χ^2 /NDF: 61386424082.0/4
		All: 150963.947 $\pm$ 0.026	χ^2 /NDF: 112825023.0/4

yield_bpm1i02WS_rms vs Slug, Sign Corrected



Right In: 184.452 $\pm$ 0.041 χ^2 /NDF: 2607319.7/23

Left Out: 199.118 $\pm$ 0.034 χ^2 /NDF: 1152231.0/24

Right Out: 182.612 $\pm$ 0.038 χ^2 /NDF: 3314691.2/28

Left In: 202.090 $\pm$ 0.035 χ^2 /NDF: 1057833.2/22

Left: 200.538 $\pm$ 0.024 χ^2 /NDF: 2213821.5/47

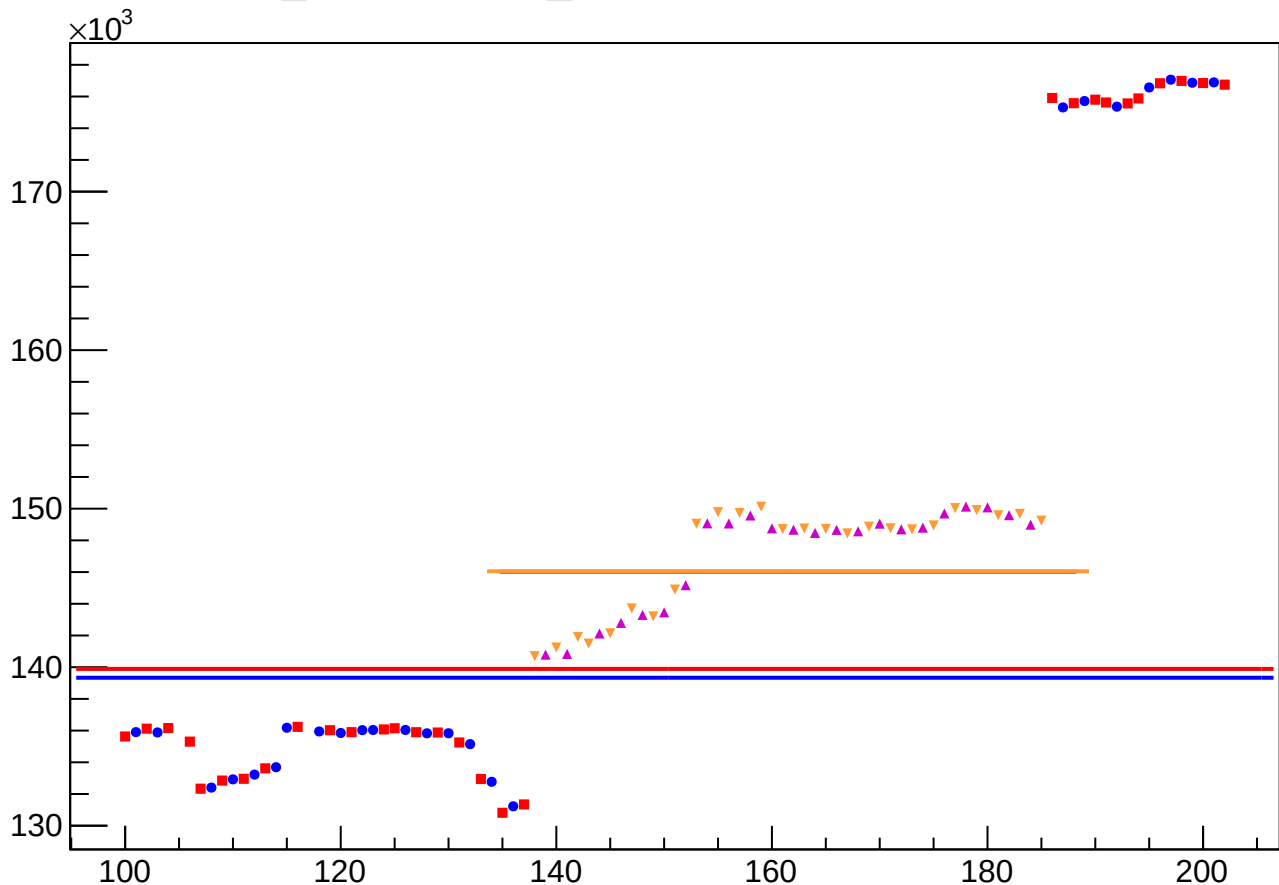
Right: 183.451 $\pm$ 0.028 χ^2 /NDF: 5923083.0/52

In: 194.738 $\pm$ 0.027 χ^2 /NDF: 3770748.4/46

Out: 191.886 $\pm$ 0.025 χ^2 /NDF: 4573214.3/53

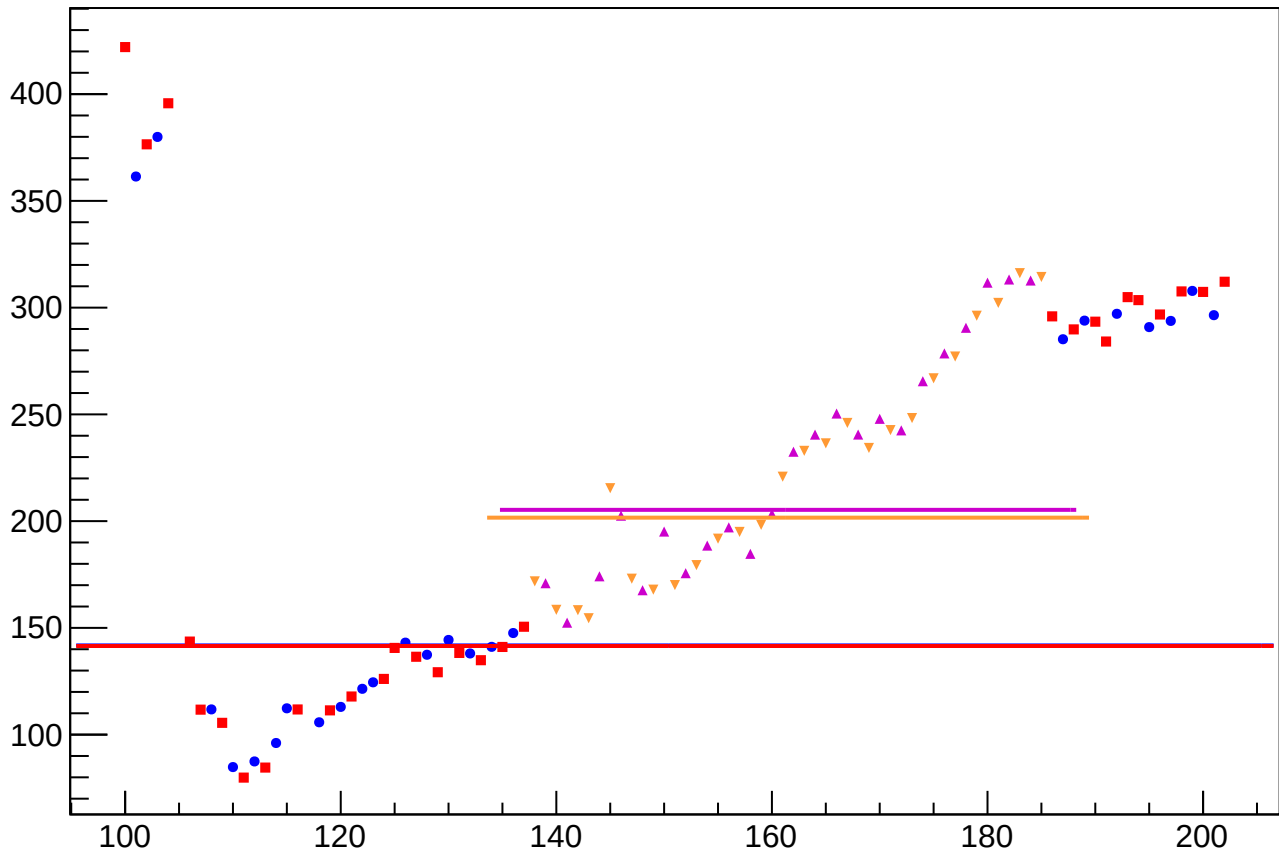
All: 193.222 $\pm$ 0.018 χ^2 /NDF: 8350001.0/100

yield_bpm1i04WS_mean vs Slug, Sign Corrected



Right In: 139334.216 $\pm$ 0.047	χ^2 /NDF: 84644917312.3/23	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: 139633.235 $\pm$ 0.032	χ^2 /NDF: 193175654026
Right Out: 139892.812 $\pm$ 0.044	χ^2 /NDF: 108456034204.8/28	In: 142447.543 $\pm$ 0.035	χ^2 /NDF: 98545652809.3/4
Left In: 146020.015 $\pm$ 0.051	χ^2 /NDF: 4591425371.4/22	Out: 142689.648 $\pm$ 0.033	χ^2 /NDF: 122733823691.
		All: 142575.854 $\pm$ 0.024	χ^2 /NDF: 221305477

yield_bpm1i04WS_rms vs Slug, Sign Corrected



Right In: 141.777 $\pm$ 0.033 χ^2 /NDF: 4377449.2/23

Left Out: 201.632 $\pm$ 0.034 χ^2 /NDF:1589564.0/24

Right Out: 141.518 $\pm$ 0.031 χ^2 /NDF: 5650087.5/28

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

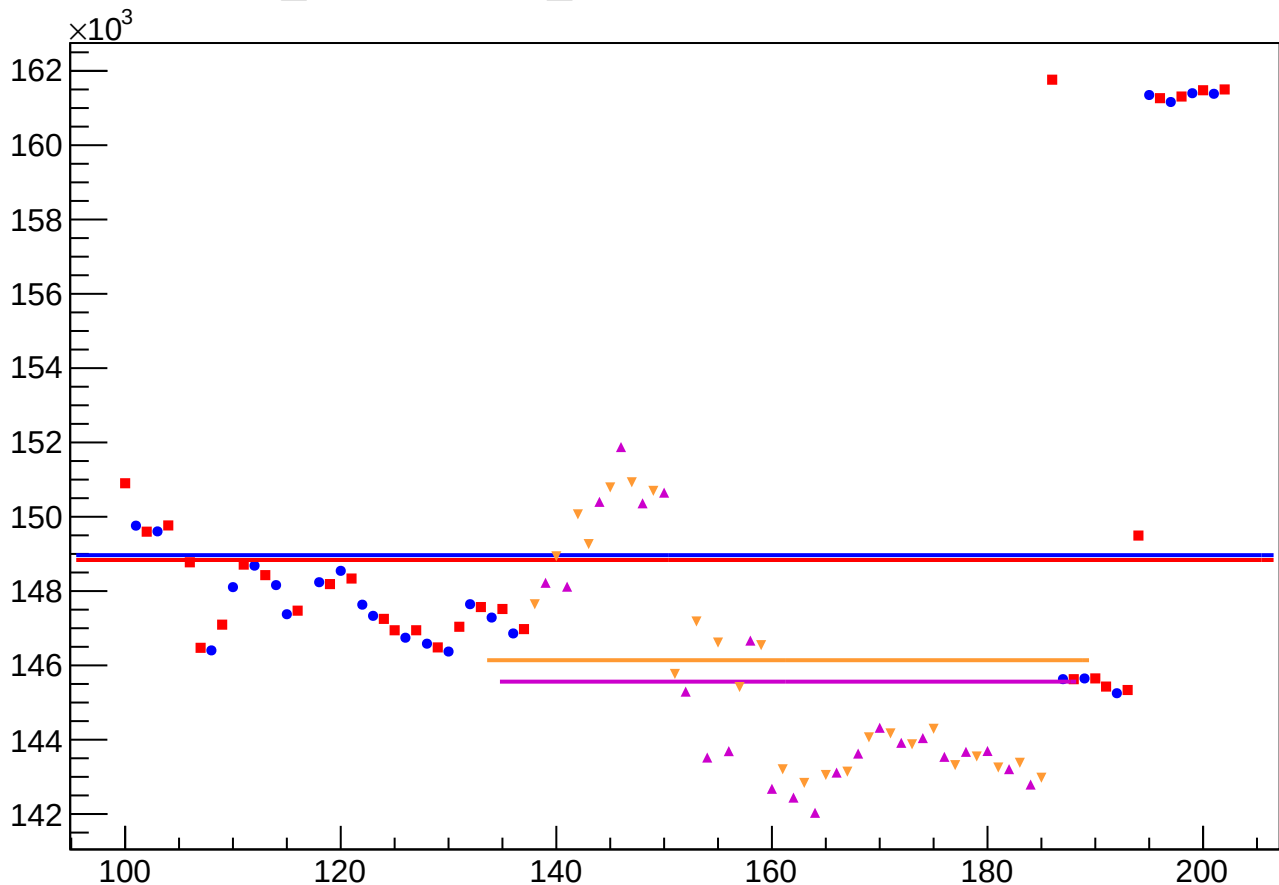
Right: 141.638 $\pm$ 0.023 χ^2 /NDF: 10027569.0/52

In: 171.351 $\pm$ 0.024 χ^2 /NDF:7482744.6/46

Out: 168.816 $\pm$ 0.023 χ^2 /NDF:8930524.5/53

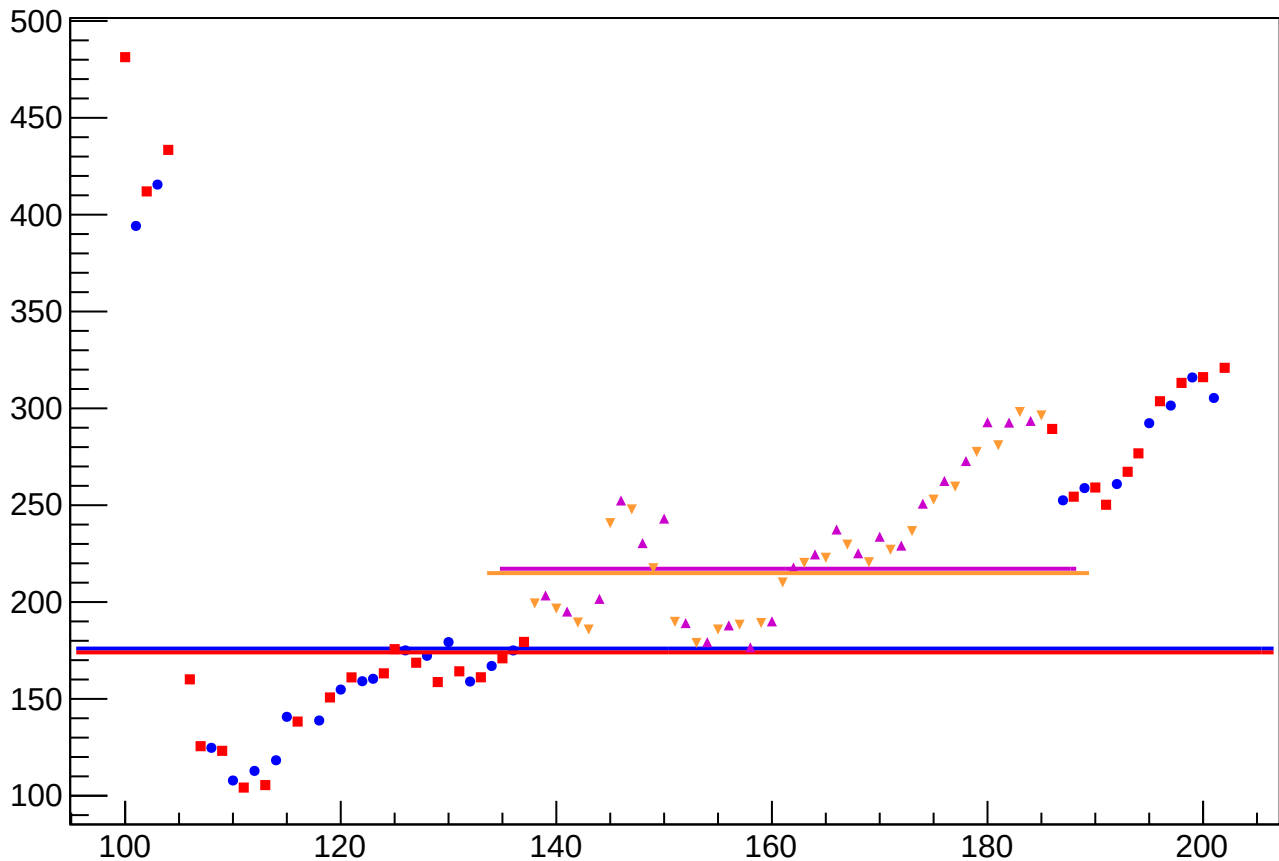
All: 170.008 $\pm$ 0.017 χ^2 /NDF: 16418969.9/100

yield_bpm1i06WS_mean vs Slug, Sign Corrected



Right In: 148966.486 $\pm$ 0.057	χ^2/NDF : 6206745882.6/23	Left: 145862.850 $\pm$ 0.037	χ^2/NDF : 5815743509.5/4
Left Out: 146139.326 $\pm$ 0.051	χ^2/NDF : 2699546907.6/24	Right: 148895.863 $\pm$ 0.038	χ^2/NDF : 12594036657.6/24
Right Out: 148836.534 $\pm$ 0.052	χ^2/NDF : 6384422918.5/28	In: 147155.819 $\pm$ 0.039	χ^2/NDF : 11187462509.4/4
Left In: 145562.386 $\pm$ 0.053	χ^2/NDF : 3054641996.0/22	Out: 147463.146 $\pm$ 0.036	χ^2/NDF : 10461858367.6/22
		All: 147319.216 $\pm$ 0.026	χ^2/NDF : 2168284367.6/22

yield_bpm1i06WS_rms vs Slug, Sign Corrected



Right In: 175.984 $\pm$ 0.040 χ^2 /NDF: 3010077.0/23

Left Out: 214.945 $\pm$ 0.036 χ^2 /NDF: 728515.5/24

Right Out: 174.015 $\pm$ 0.037 χ^2 /NDF: 3843501.8/28

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

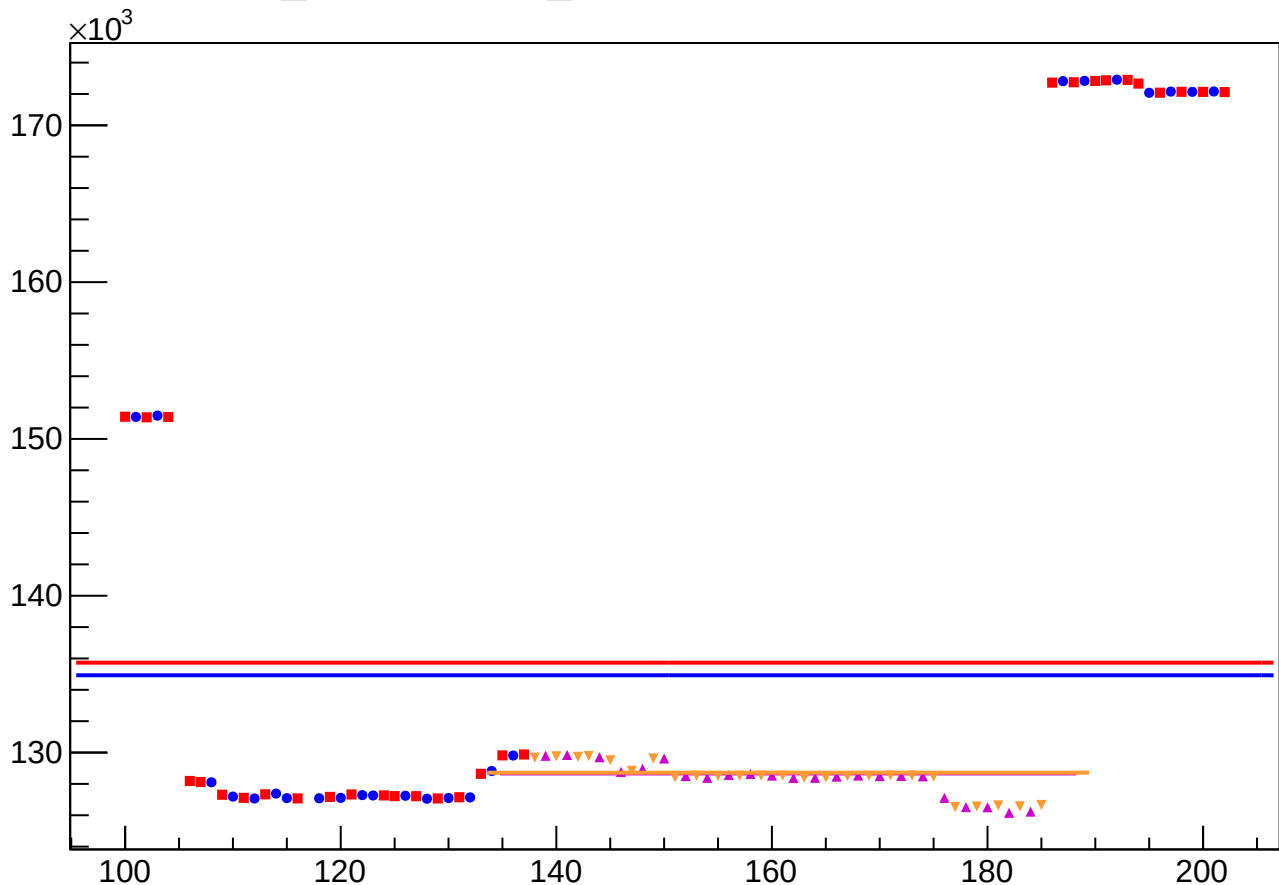
Right: 174.914 $\pm$ 0.027 χ^2 /NDF: 6854895.1/52

In: 197.909 $\pm$ 0.027 χ^2 /NDF: 4339684.2/46

Out: 194.856 $\pm$ 0.026 χ^2 /NDF: 5206607.1/53

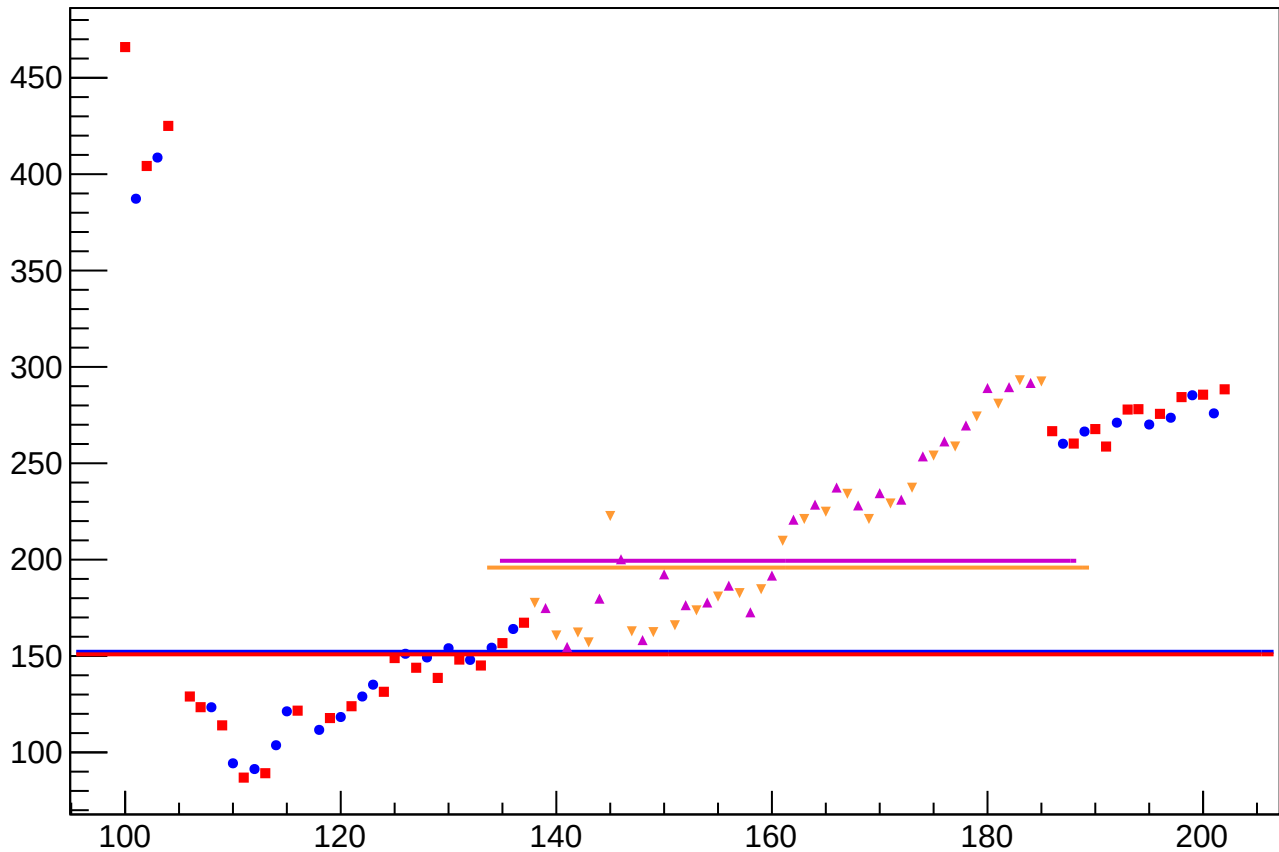
All: 196.286 $\pm$ 0.019 χ^2 /NDF: 9552906.3/100

yield_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: 134928.506 $\pm$ 0.050 χ^2 /NDF: 108778331345.2/23
 Left Out: 128714.507 $\pm$ 0.047 χ^2 /NDF: 348178101.1/24
 Right Out: 135733.509 $\pm$ 0.046 χ^2 /NDF: 140695589489.5/28
 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: 135364.986 $\pm$ 0.034 χ^2 /NDF: 249615549740
 In: 131746.035 $\pm$ 0.035 χ^2 /NDF: 117143543159.6
 Out: 132294.656 $\pm$ 0.033 χ^2 /NDF: 152567114903
 All: 132038.513 $\pm$ 0.024 χ^2 /NDF: 269842186

yield_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 152.191+/-0.035 χ^2/NDF : 3682795.2/23

Left Out: 195.883+/-0.033 χ^2/NDF :1313361.5/24

Right Out: 150.873+/-0.032 χ^2/NDF : 4675354.3/28

Left In: 199.413+/-0.035 χ^2/NDF :1165698.7/22

Left: 197.564+/-0.024 χ^2/NDF : 2484502.8/47

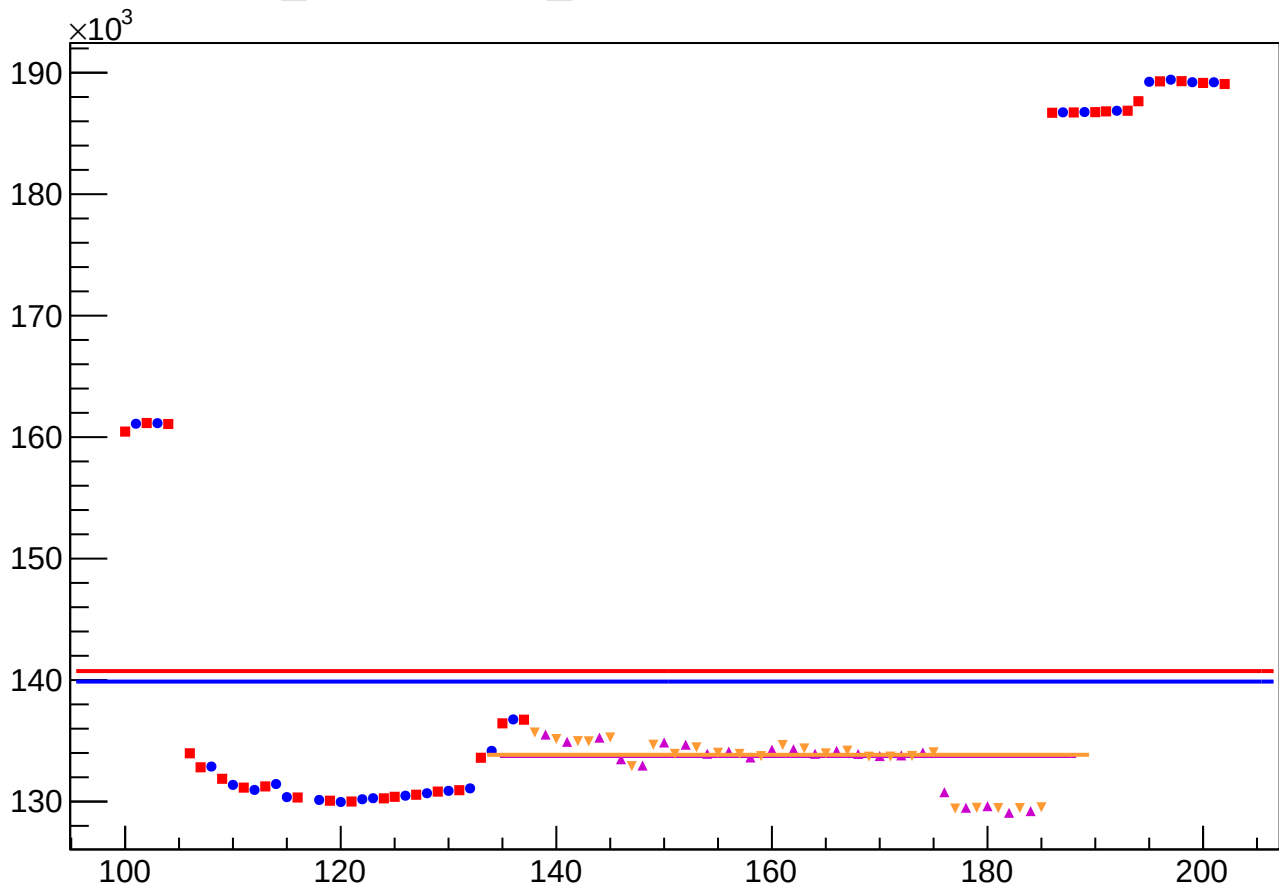
Right: 151.477+/-0.024 χ^2/NDF : 8358908.6/52

In: 176.192+/-0.025 χ^2/NDF :5762187.8/46

Out: 172.925+/-0.023 χ^2/NDF :6936403.7/53

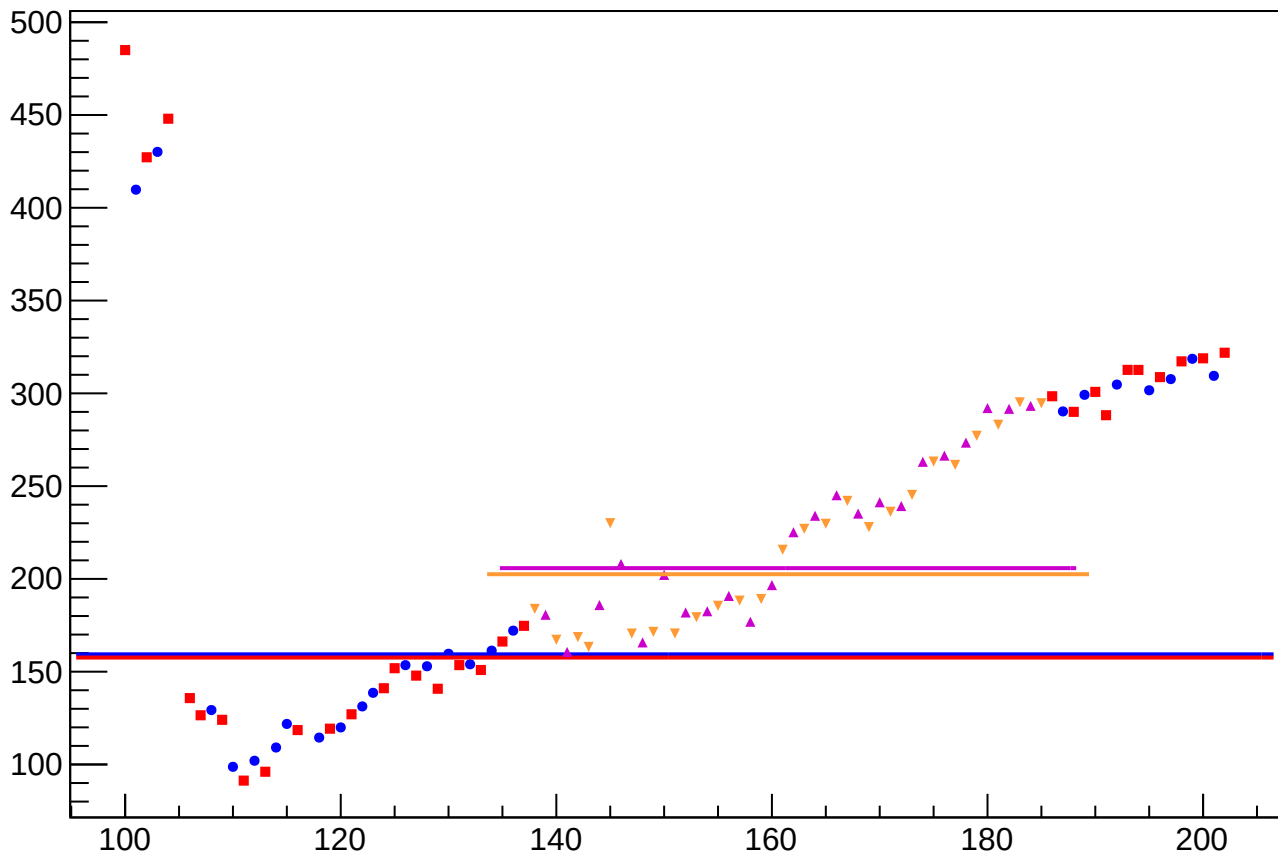
All: 174.451+/-0.017 χ^2/NDF : 12707922.4/10

yield_bpm2i02WS_mean vs Slug, Sign Corrected



Right In: 139878.344+/-0.053 χ^2/NDF : 143759139021.1/23
 Left Out: 133850.586+/-0.048 χ^2/NDF : 1080107831.1/24
 Right Out: 140741.795+/-0.048 χ^2/NDF : 182293845200.2/28
 Left In: 133749.630+/-0.051 χ^2/NDF : 954069486.7/22
 Left: 133802.452+/-0.035 χ^2/NDF : 2036267179.3/23
 Right: 140346.628+/-0.036 χ^2/NDF : 326199386219.1/24
 In: 136692.789+/-0.036 χ^2/NDF : 151782154216.1/24
 Out: 137292.221+/-0.034 χ^2/NDF : 193573720770.1/24
 All: 137012.044+/-0.025 χ^2/NDF : 345500164.1/24

yield_bpm2i02WS_rms vs Slug, Sign Corrected



Right In: 159.346 $\pm$ 0.037 χ^2 /NDF: 3965811.0/23

Left Out: 202.527 $\pm$ 0.034 χ^2 /NDF:1211991.5/24

Right Out: 157.620 $\pm$ 0.034 χ^2 /NDF: 5088888.9/28

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

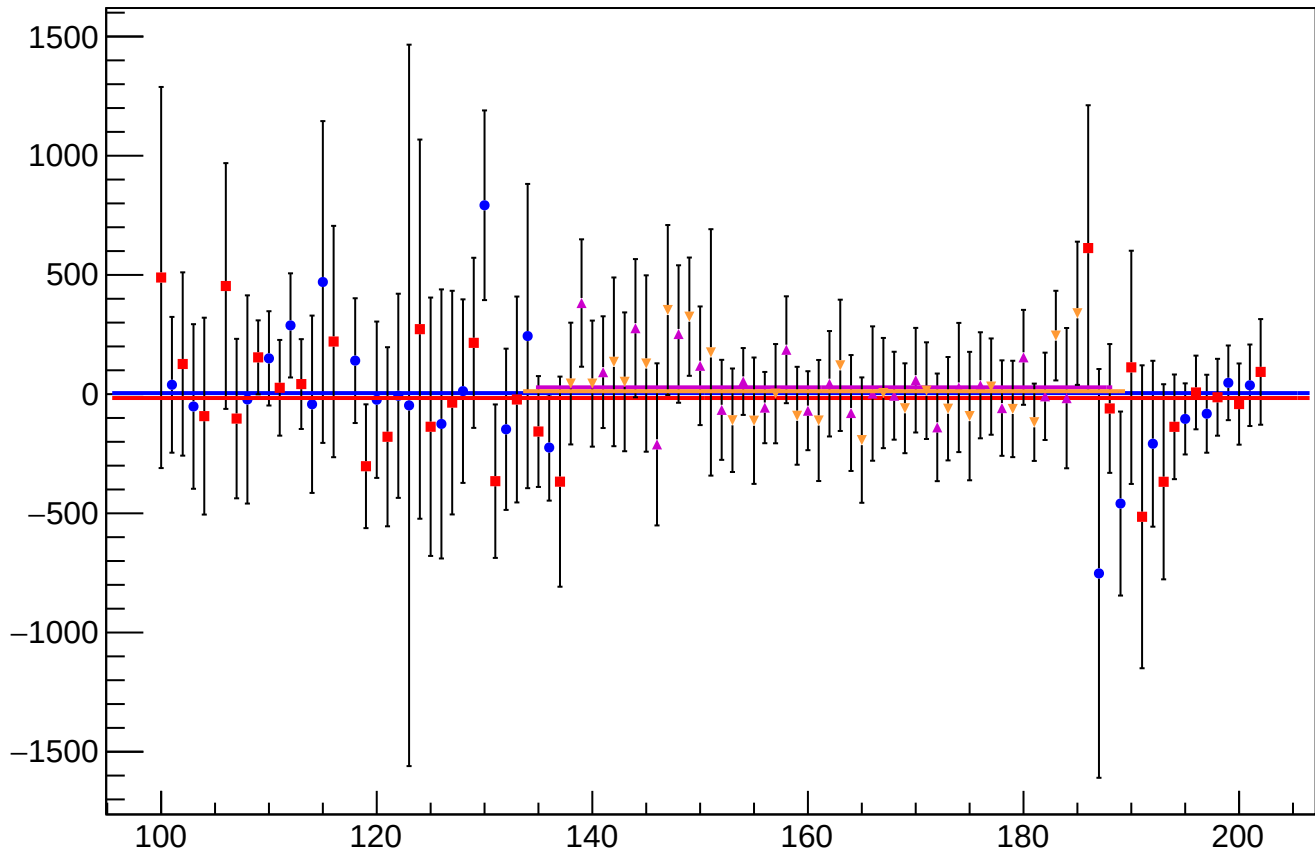
Right: 158.410 $\pm$ 0.025 χ^2 /NDF: 9055870.1/52

In: 183.496 $\pm$ 0.026 χ^2 /NDF:5872662.7/46

Out: 180.100 $\pm$ 0.024 χ^2 /NDF:7167166.6/53

All: 181.687 $\pm$ 0.018 χ^2 /NDF: 13049093.3/100

asym_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: 4.279 ± 54.802 $\chi^2/\text{NDF}: 11.9/23$

Left Out: 12.180 ± 47.531 $\chi^2/\text{NDF}: 8.6/24$

Right Out: -16.352 ± 50.723 $\chi^2/\text{NDF}: 10.4/28$

Left In: 28.452 ± 44.688 $\chi^2/\text{NDF}: 6.7/22$

Left: 20.817 ± 32.558 $\chi^2/\text{NDF}: 15.3/47$

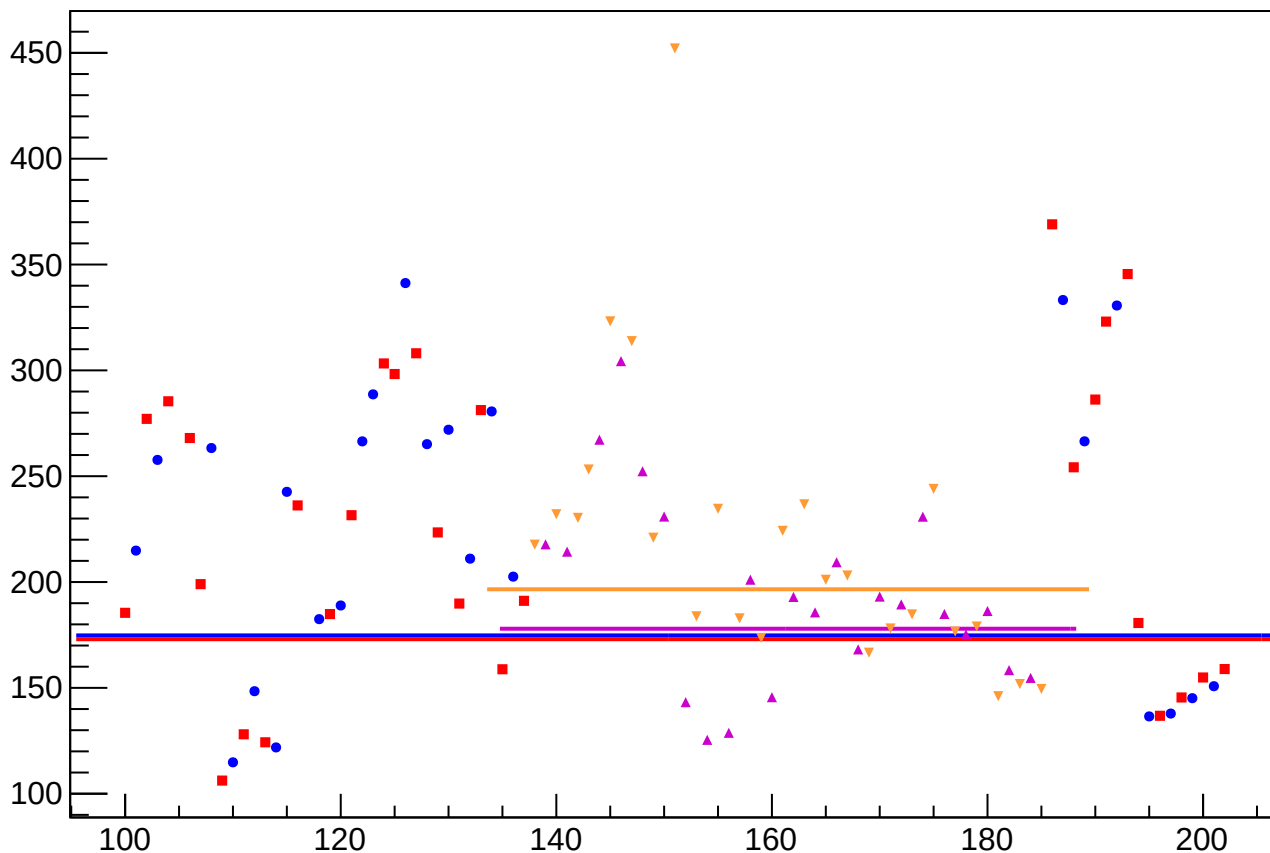
Right: -6.833 ± 37.225 $\chi^2/\text{NDF}: 22.4/52$

In: 18.797 ± 34.633 $\chi^2/\text{NDF}: 18.7/46$

Out: -1.160 ± 34.683 $\chi^2/\text{NDF}: 19.1/53$

All: 8.833 ± 24.507 $\chi^2/\text{NDF}: 38.0/100$

asym_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 174.784 $\pm$ 0.039 χ^2 /NDF: 2059253.6/23

Left Out: 196.576 $\pm$ 0.034 χ^2 /NDF:1778719.0/24

Right Out: 172.991 $\pm$ 0.036 χ^2 /NDF: 2744897.0/28

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

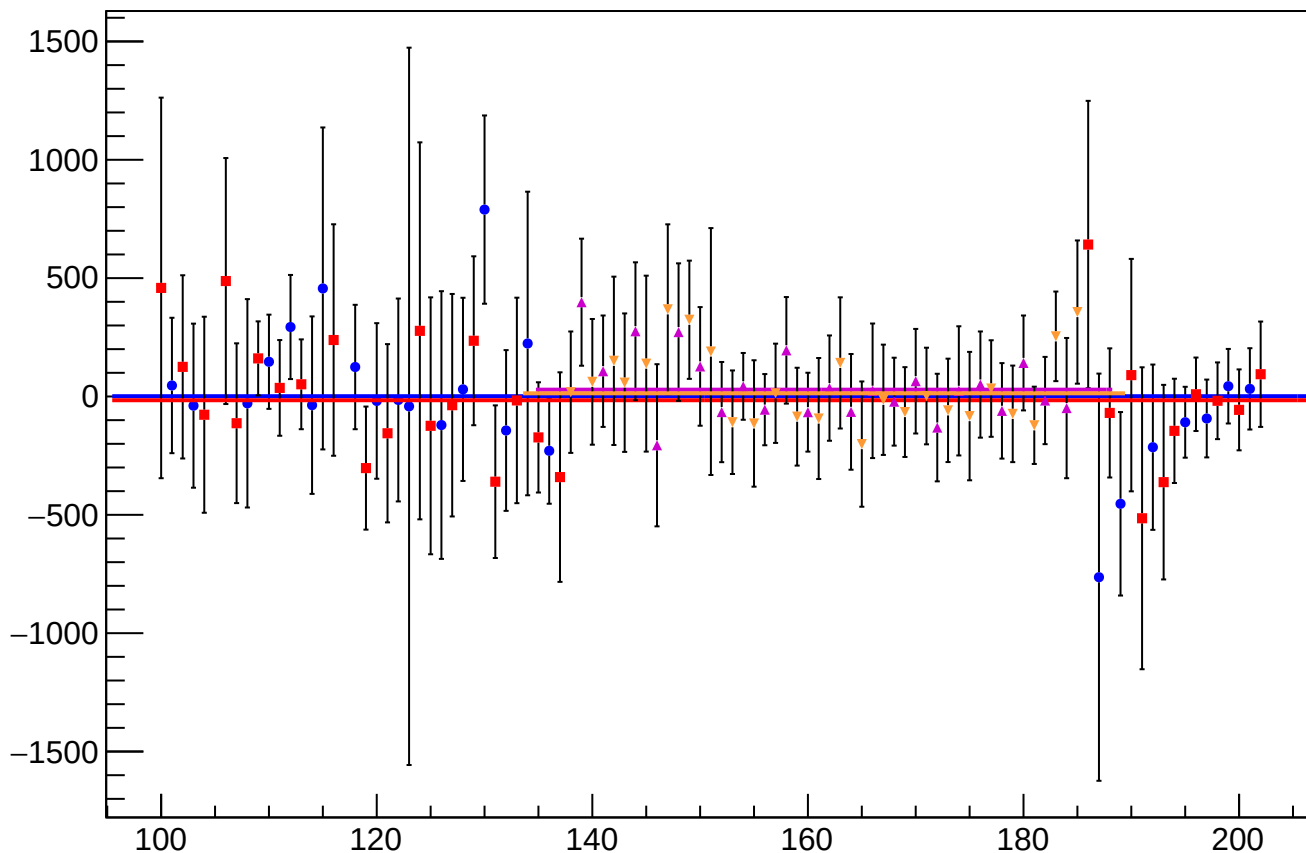
Right: 173.818 $\pm$ 0.026 χ^2 /NDF: 4805304.0/52

In: 176.675 $\pm$ 0.024 χ^2 /NDF:3668999.9/46

Out: 185.549 $\pm$ 0.025 χ^2 /NDF:4753854.7/53

All: 181.106 $\pm$ 0.017 χ^2 /NDF: 8488408.6/100

asym_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: 1.178 ± 55.068 χ^2/NDF : 11.9/23

Left Out: 13.395 ± 47.862 χ^2/NDF : 9.0/24

Right Out: -15.866 ± 50.981 χ^2/NDF : 10.7/28

Left In: 28.806 ± 44.980 χ^2/NDF : 6.8/22

Left: 21.578 ± 32.777 χ^2/NDF : 15.9/47

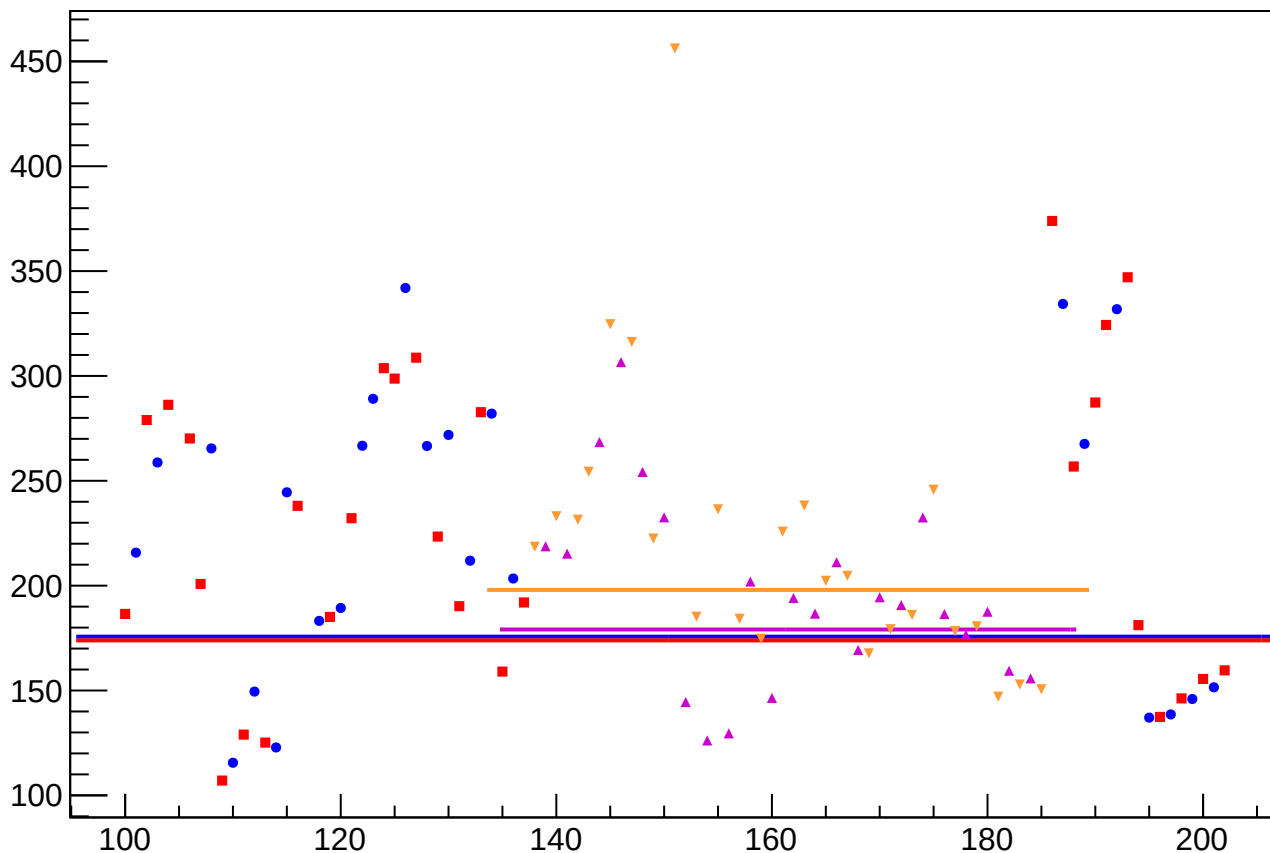
Right: -8.000 ± 37.411 χ^2/NDF : 22.6/52

In: 17.750 ± 34.836 χ^2/NDF : 18.9/46

Out: -0.313 ± 34.894 χ^2/NDF : 19.8/53

All: 8.733 ± 24.653 χ^2/NDF : 38.9/100

asym_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 175.670 $\pm$ 0.039 χ^2 /NDF: 2049916.0/23

Left Out: 197.953 $\pm$ 0.034 χ^2 /NDF:1774524.3/24

Right Out: 173.890 $\pm$ 0.036 χ^2 /NDF: 2739585.7/28

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

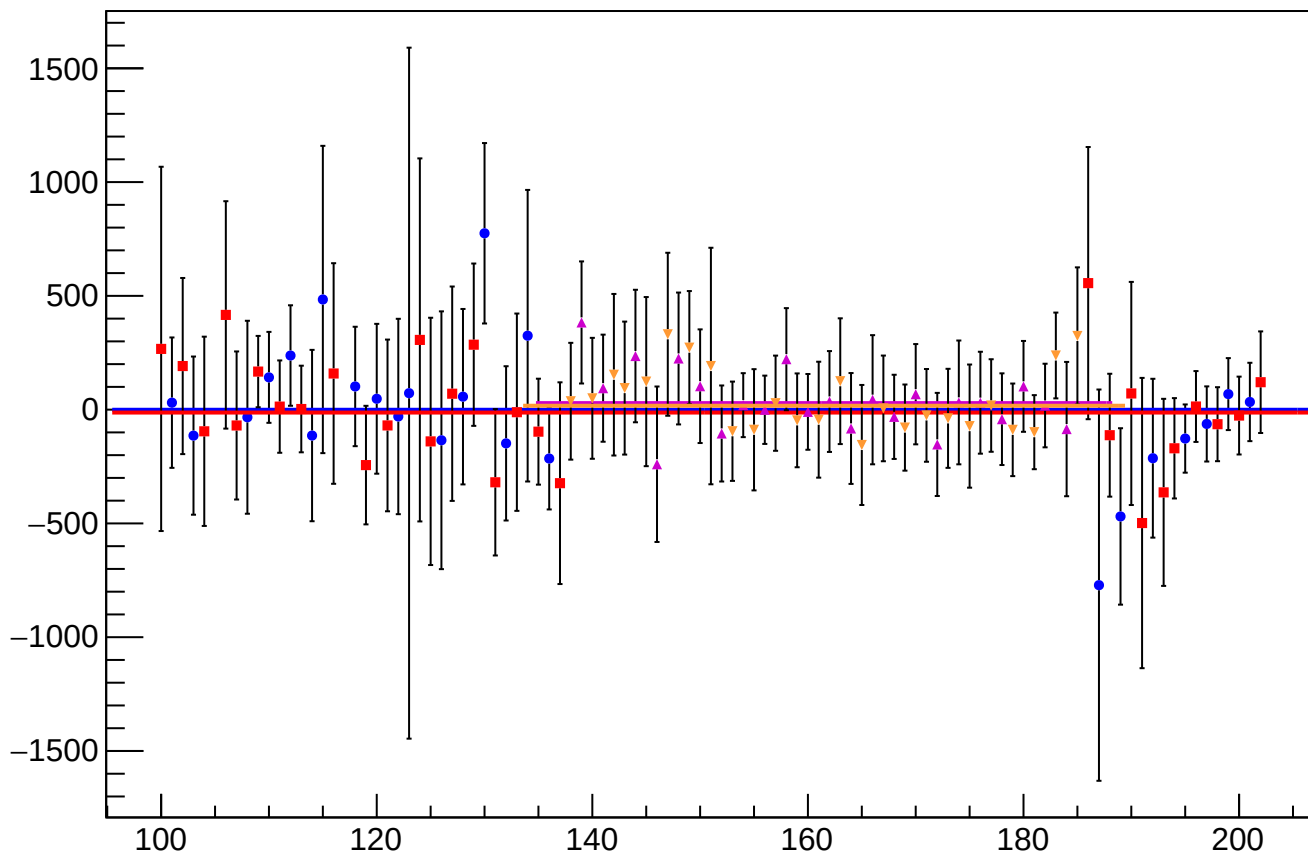
Right: 174.711 $\pm$ 0.026 χ^2 /NDF: 4790627.2/52

In: 177.721 $\pm$ 0.025 χ^2 /NDF:3659656.0/46

Out: 186.680 $\pm$ 0.025 χ^2 /NDF:4750937.7/53

All: 182.193 $\pm$ 0.017 χ^2 /NDF: 8476617.4/100

asym_bcm_an_us_mean vs Slug, Sign Corrected



Right In: -0.557 ± 55.141 χ^2/NDF : 11.6/23

Left Out: 17.142 ± 47.738 χ^2/NDF : 7.1/24

Right Out: -12.808 ± 50.974 χ^2/NDF : 9.3/28

Left In: 28.655 ± 44.859 χ^2/NDF : 6.1/22

Left: 23.256 ± 32.690 χ^2/NDF : 13.2/47

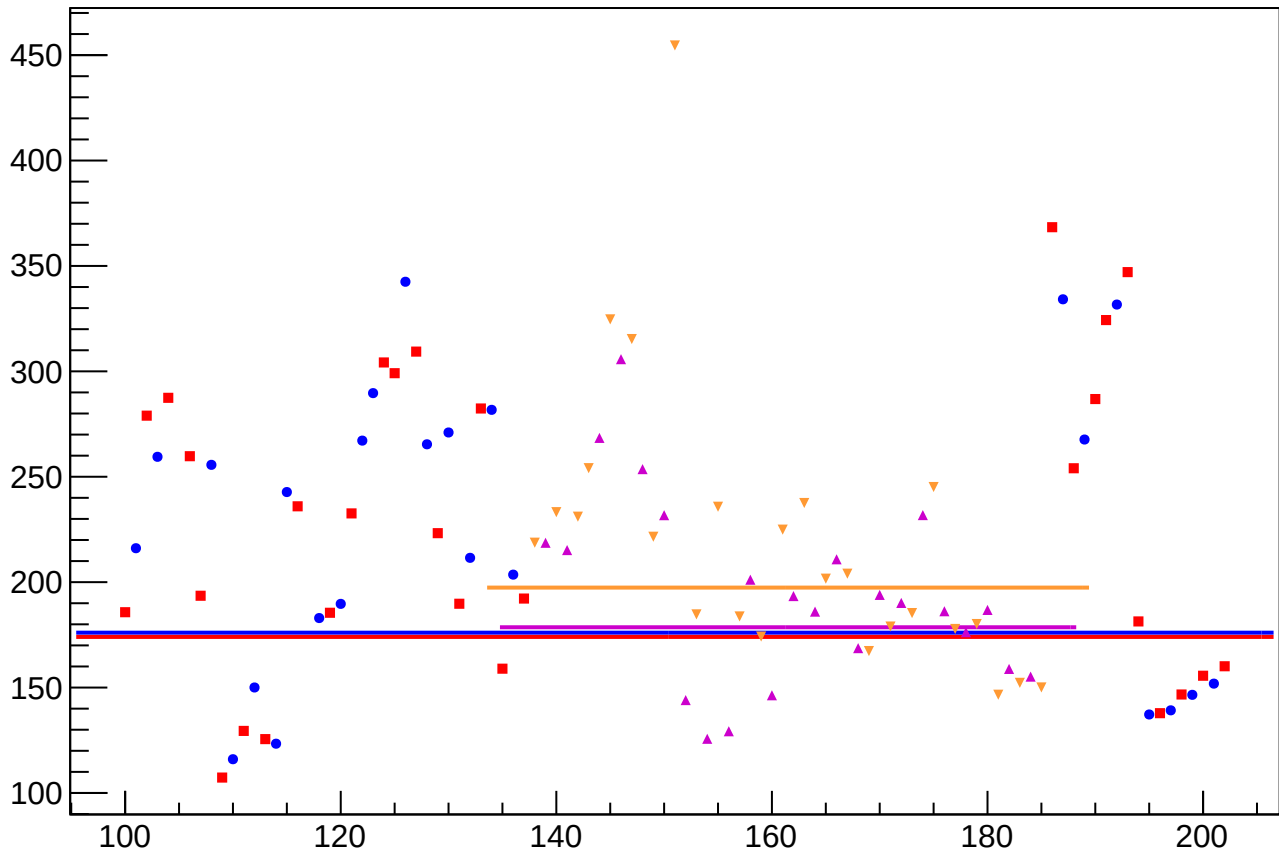
Right: -7.163 ± 37.431 χ^2/NDF : 20.9/52

In: 17.021 ± 34.798 χ^2/NDF : 17.9/46

Out: 3.148 ± 34.844 χ^2/NDF : 16.6/53

All: 10.094 ± 24.622 χ^2/NDF : 34.6/100

asym_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 176.036 $\pm$ 0.039 χ^2 /NDF: 2019118.7/23

Left Out: 197.422 $\pm$ 0.034 χ^2 /NDF:1780261.9/24

Right Out: 174.022 $\pm$ 0.036 χ^2 /NDF: 2695427.9/28

Left In: 178.601 $\pm$ 0.032 χ^2 /NDF:1608998.1/22

Left: 187.427 $\pm$ 0.023 χ^2 /NDF: 3554344.1/47

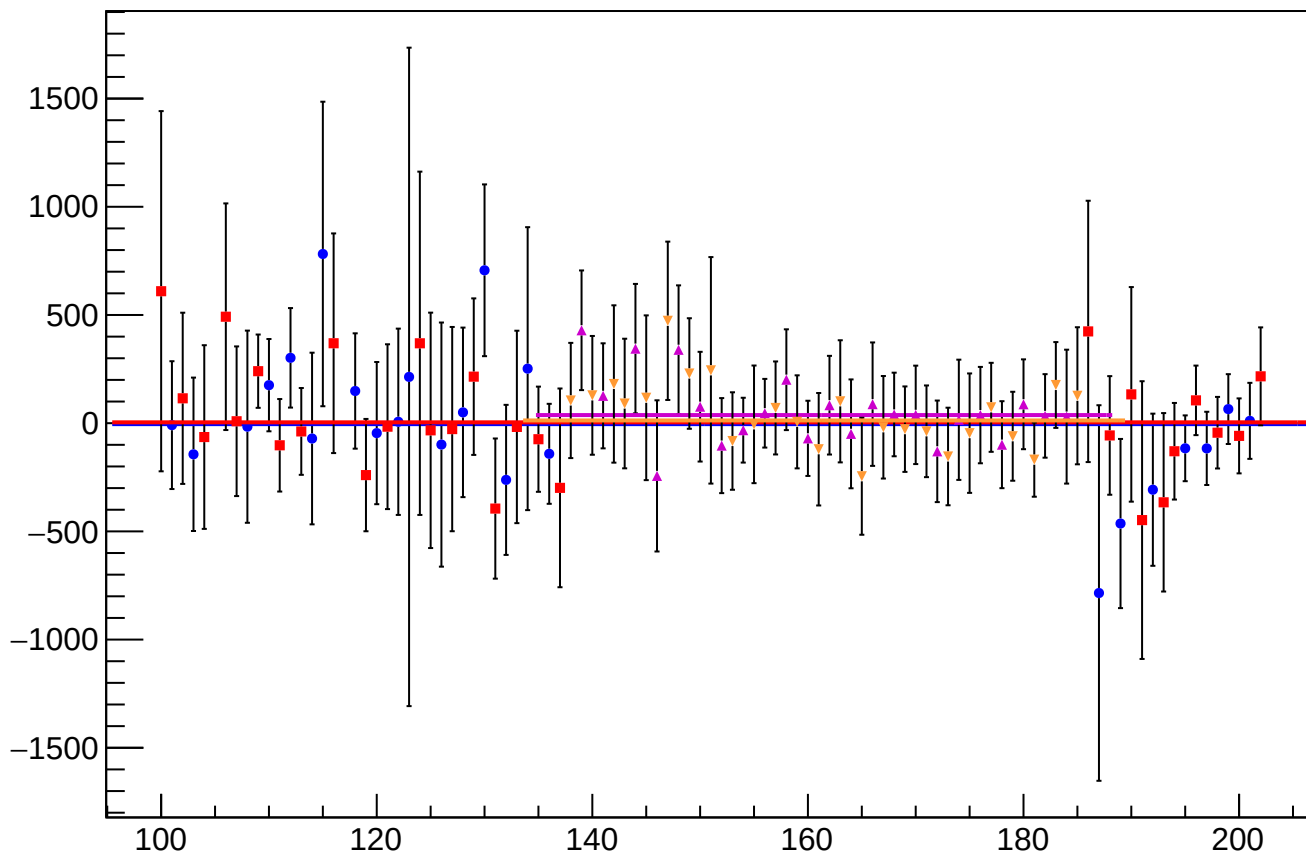
Right: 174.950 $\pm$ 0.026 χ^2 /NDF: 4715985.0/52

In: 177.580 $\pm$ 0.025 χ^2 /NDF:3630722.1/46

Out: 186.488 $\pm$ 0.025 χ^2 /NDF:4700223.2/53

All: 182.028 $\pm$ 0.017 χ^2 /NDF: 8396399.7/100

asym_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: -4.388 ± 56.491 $\chi^2/\text{NDF}: 12.7/23$

Left Out: 12.632 ± 49.242 $\chi^2/\text{NDF}: 7.5/24$

Right Out: 3.913 ± 52.511 $\chi^2/\text{NDF}: 11.5/28$

Left In: 37.460 ± 46.479 $\chi^2/\text{NDF}: 7.6/22$

Left: 25.762 ± 33.800 $\chi^2/\text{NDF}: 15.3/47$

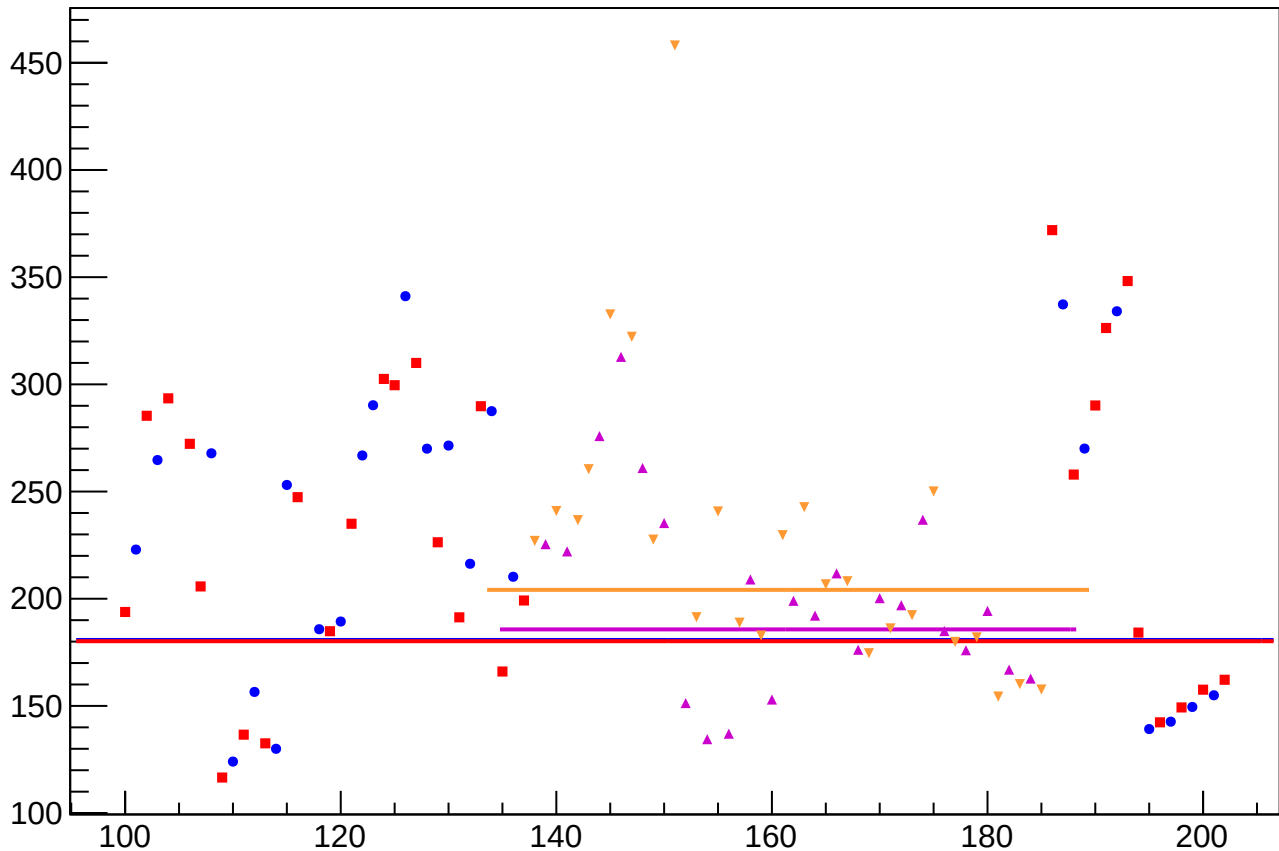
Right: 0.065 ± 38.461 $\chi^2/\text{NDF}: 24.2/52$

In: 20.567 ± 35.892 $\chi^2/\text{NDF}: 20.7/46$

Out: 8.553 ± 35.920 $\chi^2/\text{NDF}: 19.1/53$

All: 14.565 ± 25.389 $\chi^2/\text{NDF}: 39.8/100$

asym_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 180.760 $\pm$ 0.040 χ^2 /NDF: 1935604.1/23

Left Out: 204.132 $\pm$ 0.035 χ^2 /NDF:1672287.6/24

Right Out: 180.185 $\pm$ 0.037 χ^2 /NDF: 2498978.5/28

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

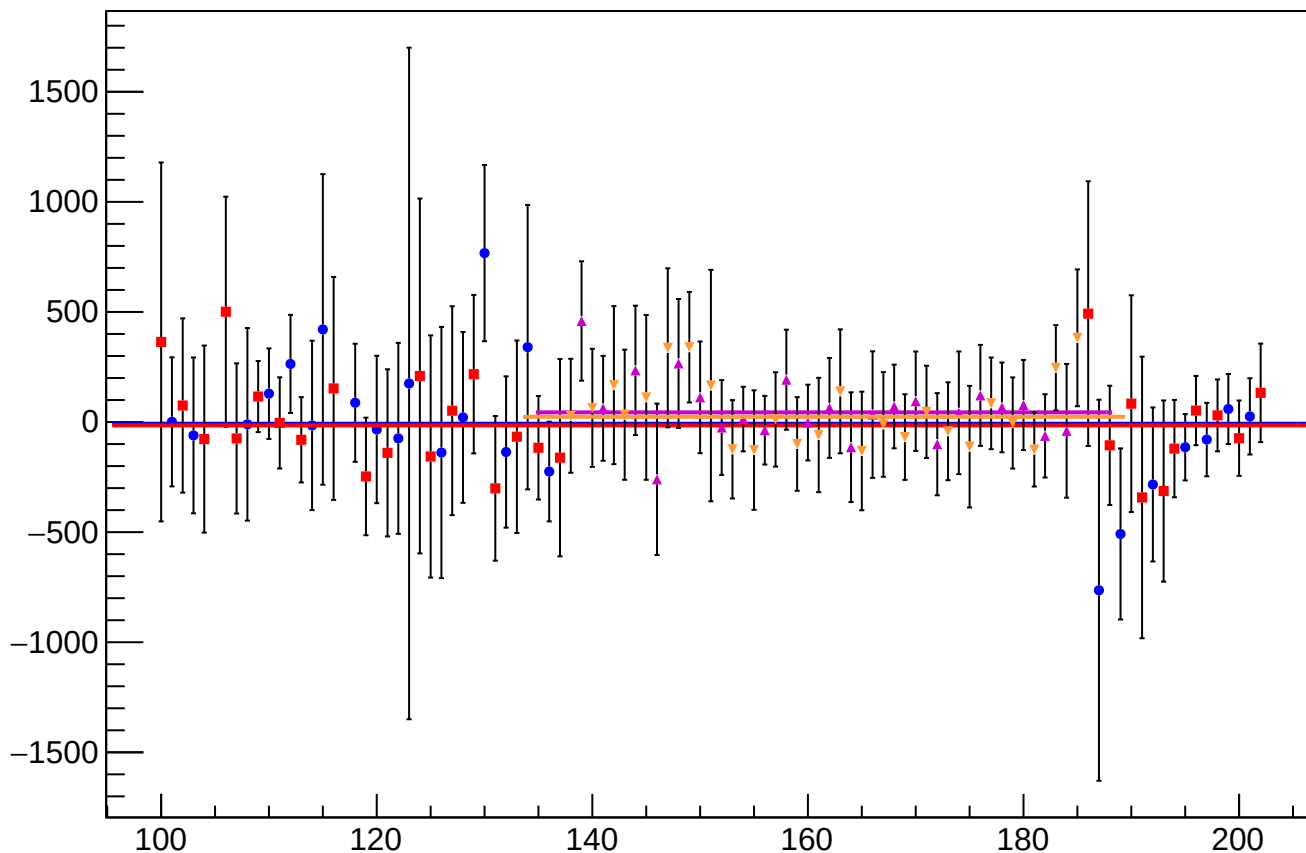
Right: 180.451 $\pm$ 0.027 χ^2 /NDF: 4434693.8/52

In: 183.702 $\pm$ 0.025 χ^2 /NDF:3392468.0/46

Out: 192.927 $\pm$ 0.025 χ^2 /NDF:4392589.5/53

All: 188.311 $\pm$ 0.018 χ^2 /NDF: 7851062.3/100

asym_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: -7.617 ± 55.779 $\chi^2/\text{NDF}: 11.6/23$

Left Out: 23.843 ± 48.783 $\chi^2/\text{NDF}: 8.5/24$

Right Out: -15.110 ± 51.641 $\chi^2/\text{NDF}: 7.4/28$

Left In: 43.978 ± 45.981 $\chi^2/\text{NDF}: 6.5/22$

Left: 34.506 ± 33.460 $\chi^2/\text{NDF}: 15.1/47$

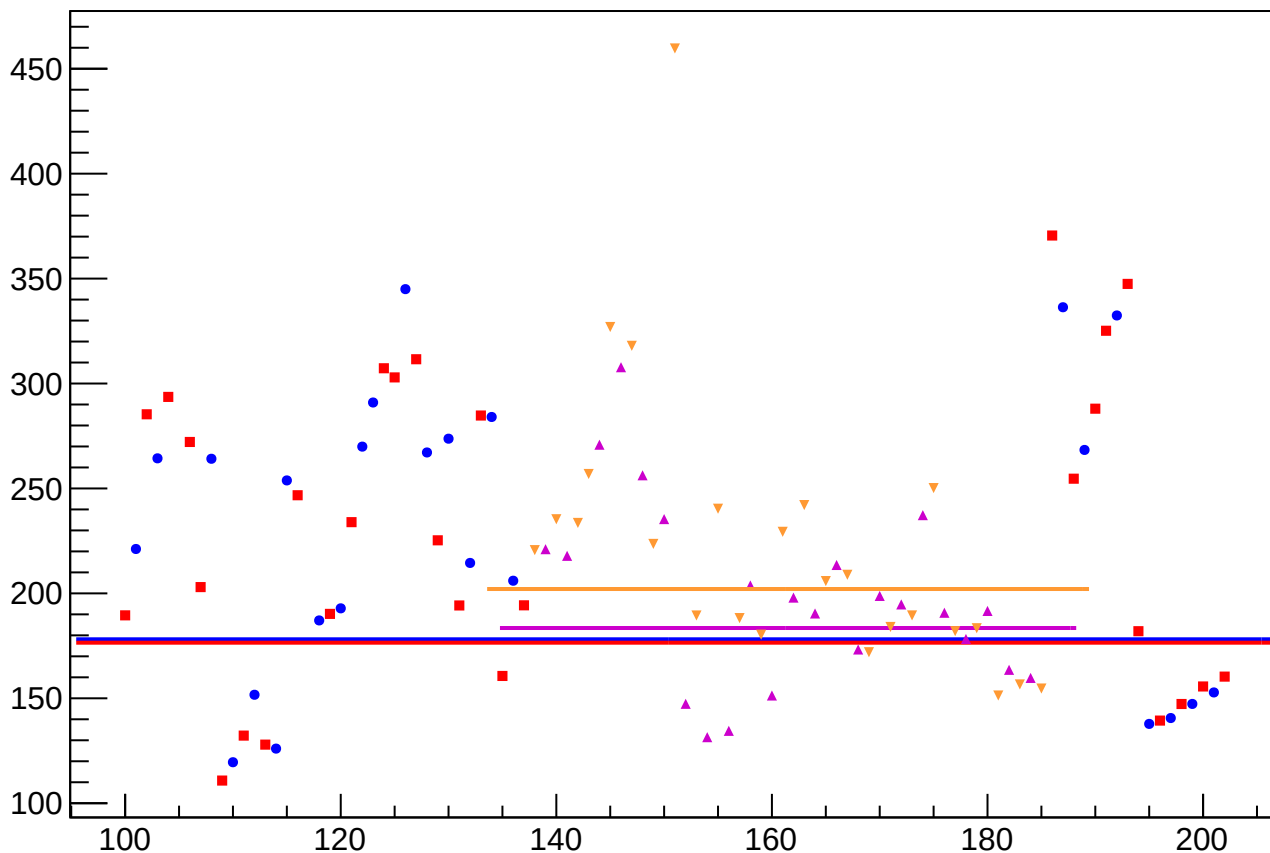
Right: -11.652 ± 37.894 $\chi^2/\text{NDF}: 19.0/52$

In: 23.103 ± 35.480 $\chi^2/\text{NDF}: 18.6/46$

Out: 5.474 ± 35.462 $\chi^2/\text{NDF}: 16.1/53$

All: 14.284 ± 25.082 $\chi^2/\text{NDF}: 34.9/100$

asym_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 178.119 $\pm$ 0.039 χ^2/NDF : 2019449.3/23

Left Out: 202.081 $\pm$ 0.034 χ^2/NDF : 1692787.9/24

Right Out: 176.504 $\pm$ 0.037 χ^2/NDF : 2667216.0/28

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

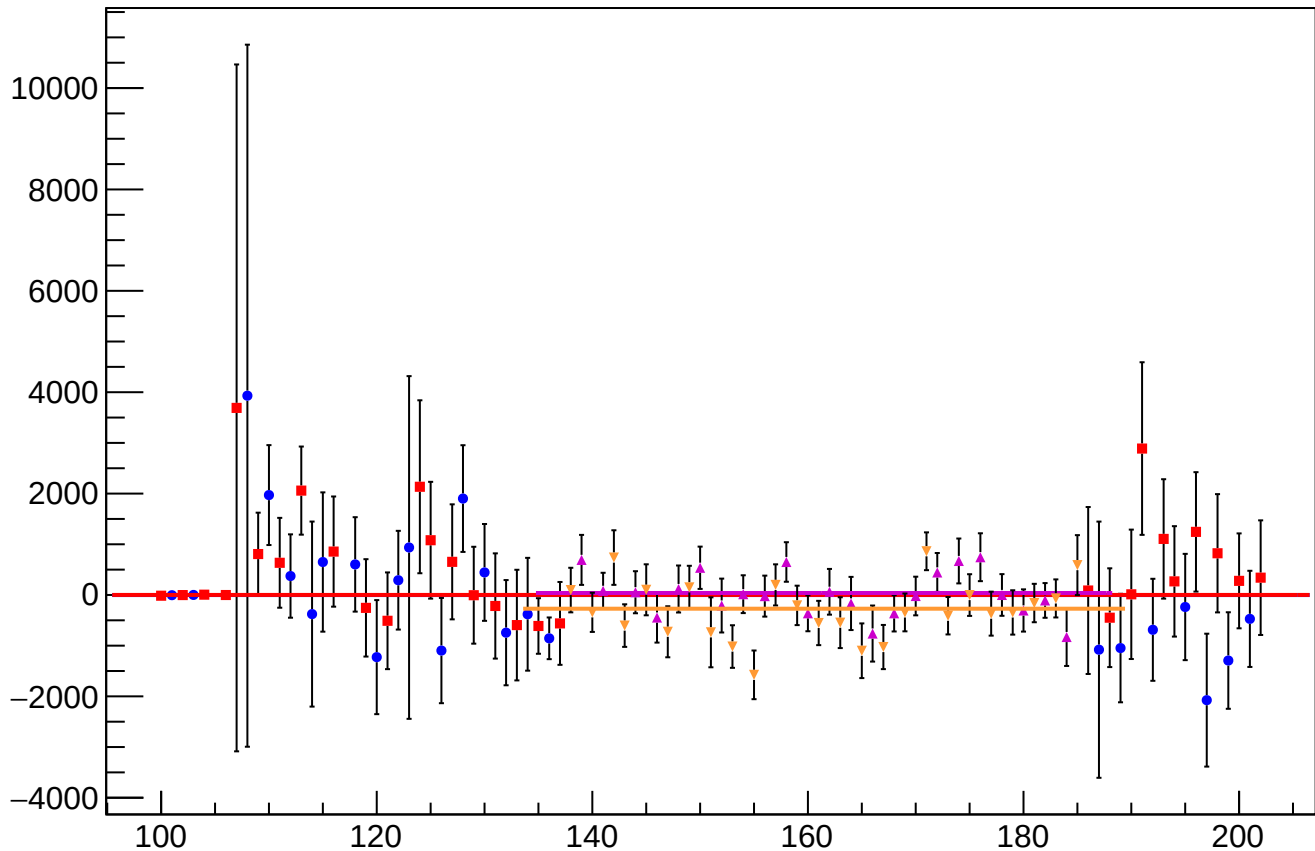
Right: 177.249 $\pm$ 0.027 χ^2/NDF : 4687568.2/52

In: 181.322 $\pm$ 0.025 χ^2/NDF : 3513907.7/46

Out: 190.020 $\pm$ 0.025 χ^2/NDF : 4619258.7/53

All: 185.673 $\pm$ 0.018 χ^2/NDF : 8193294.7/100

asym_cav4bQ_mean vs Slug, Sign Corrected



Right In: -1.556 ± 2.251 χ^2/NDF : 23.7/23

Left Out: -270.969 ± 86.967 χ^2/NDF : 38.1/24

Right Out: 0.742 ± 2.111 χ^2/NDF : 25.0/28

Left In: 39.078 ± 87.769 χ^2/NDF : 20.3/22

Left: -117.369 ± 61.777 χ^2/NDF : 64.7/47

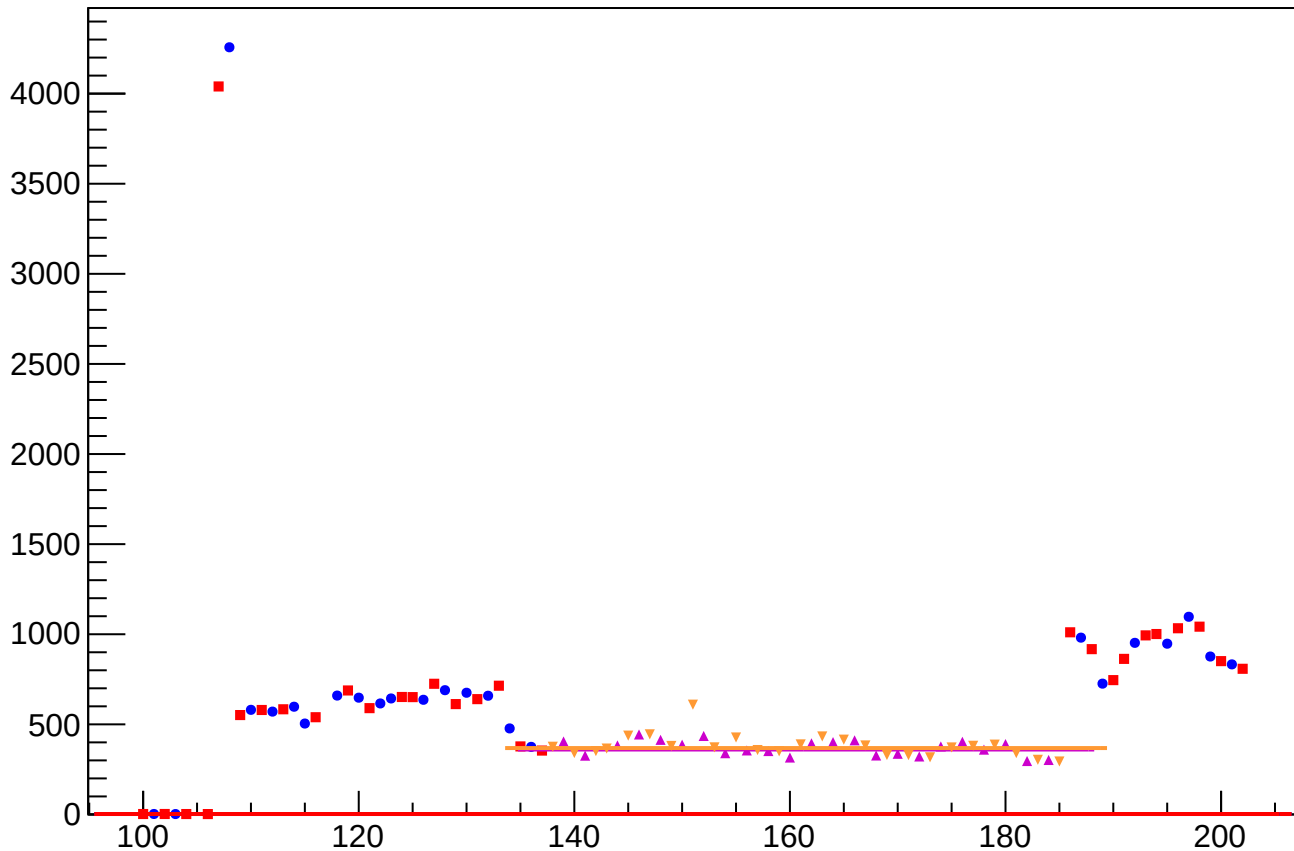
Right: -0.333 ± 1.540 χ^2/NDF : 49.2/52

In: -1.529 ± 2.251 χ^2/NDF : 44.1/46

Out: 0.582 ± 2.110 χ^2/NDF : 72.8/53

All: -0.406 ± 1.540 χ^2/NDF : 117.4/100

asym_cav4bQ_rms vs Slug, Sign Corrected



Right In: 2.482 $\pm$ 0.002 χ^2 /NDF: 20041133.6/23

Left Out: 368.397 $\pm$ 0.061 χ^2 /NDF:622466.1/24

Right Out: 2.467 $\pm$ 0.001 χ^2 /NDF: 23681266.4/28

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

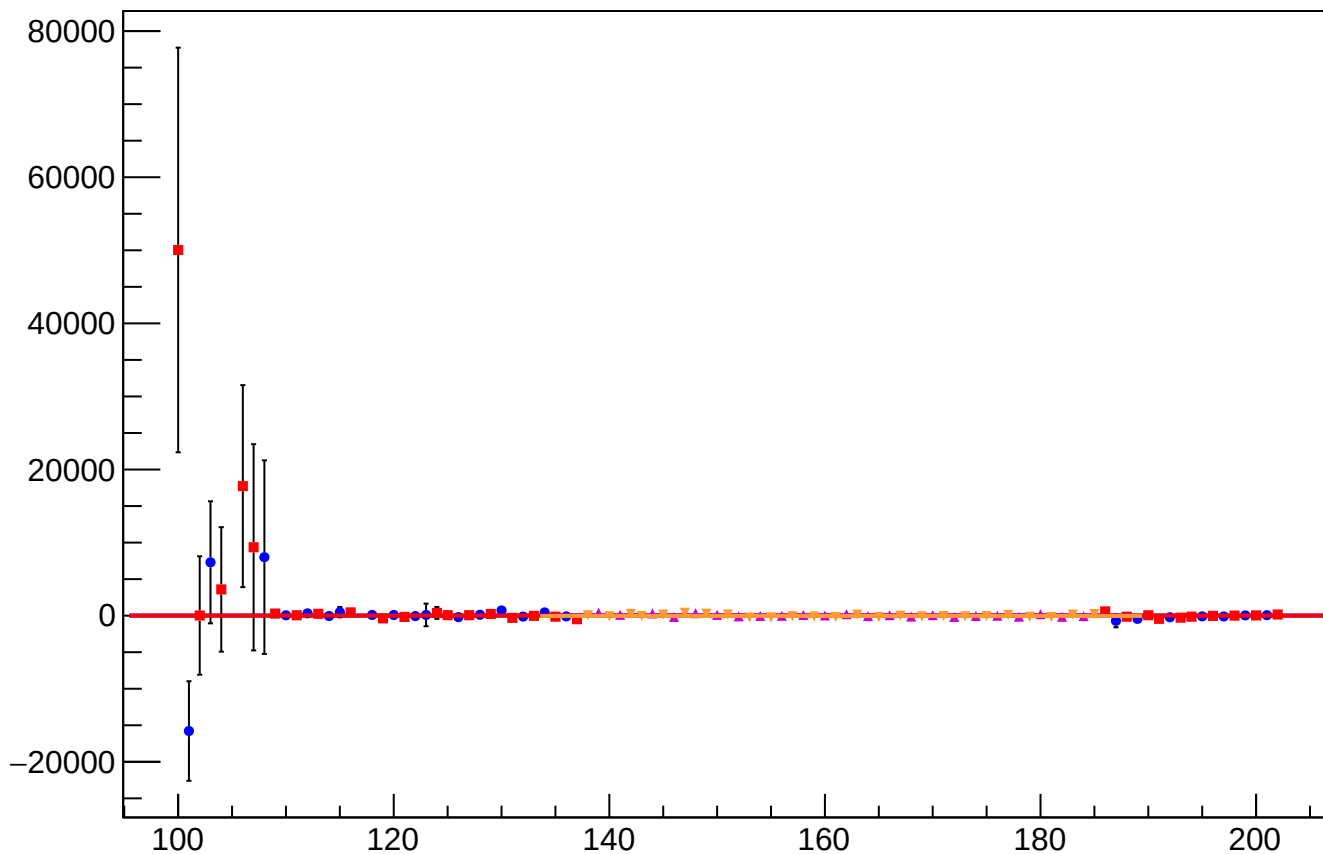
Right: 2.474 $\pm$ 0.001 χ^2 /NDF: 43722451.4/52

In: 2.718 $\pm$ 0.002 χ^2 /NDF:53697551.2/46

Out: 2.682 $\pm$ 0.001 χ^2 /NDF:59691972.7/53

All: 2.699 $\pm$ 0.001 χ^2 /NDF: 113389788.8/100

asym_cav4cQ_mean vs Slug, Sign Corrected



Right In: 12.235+/-61.554 χ^2/NDF : 16.3/23

Left Out: -38.013+/-49.628 χ^2/NDF : 9.3/24

Right Out: 12.325+/-58.018 χ^2/NDF : 17.1/28

Left In: 28.205+/-48.167 χ^2/NDF : 9.2/22

Left: -3.915+/-34.564 χ^2/NDF : 19.4/47

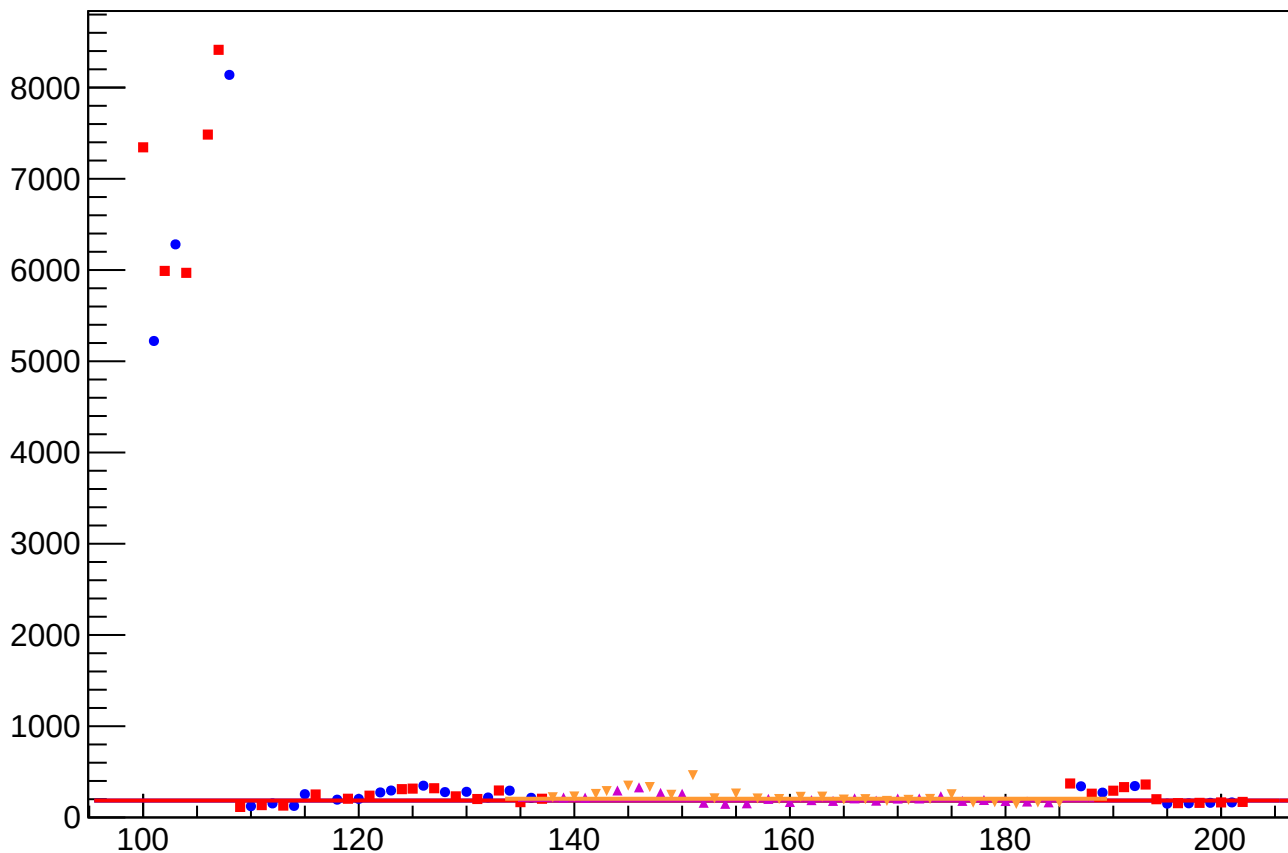
Right: 12.283+/-42.220 χ^2/NDF : 33.4/52

In: 22.140+/-37.933 χ^2/NDF : 25.6/46

Out: -16.744+/-37.713 χ^2/NDF : 26.8/53

All: 2.585+/-26.745 χ^2/NDF : 52.9/100

asym_cav4cQ_rms vs Slug, Sign Corrected



Right In: 184.771 $\pm$ 0.044 χ^2/NDF : 4480848.0/23

Left Out: 205.027 $\pm$ 0.035 χ^2/NDF :1956045.1/24

Right Out: 185.578 $\pm$ 0.041 χ^2/NDF : 5330117.3/28

Left In: 193.405 $\pm$ 0.034 χ^2/NDF :1172169.3/22

Left: 199.042 $\pm$ 0.024 χ^2/NDF : 3184695.4/47

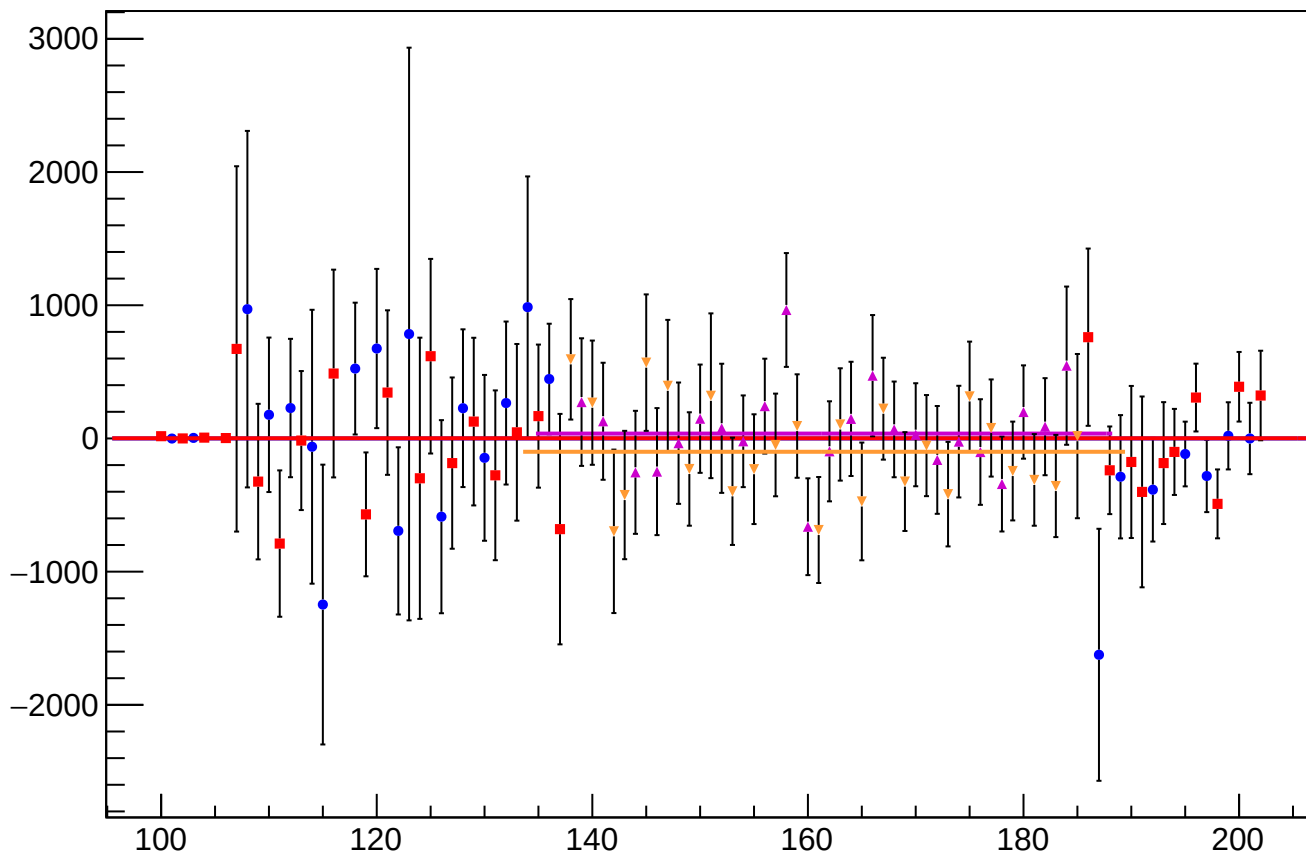
Right: 185.198 $\pm$ 0.030 χ^2/NDF : 9811147.4/52

In: 190.126 $\pm$ 0.027 χ^2/NDF :5677423.1/46

Out: 196.809 $\pm$ 0.027 χ^2/NDF :7415948.6/53

All: 193.487 $\pm$ 0.019 χ^2/NDF : 13124594.6/100

asym_cav4dQ_mean vs Slug, Sign Corrected



Right In: -0.174 ± 1.736 χ^2/NDF : 15.7/23

Left Out: -100.058 ± 84.190 χ^2/NDF : 15.7/24

Right Out: 1.328 ± 1.622 χ^2/NDF : 20.1/28

Left In: 36.497 ± 84.675 χ^2/NDF : 13.5/22

Left: -32.173 ± 59.702 χ^2/NDF : 30.5/47

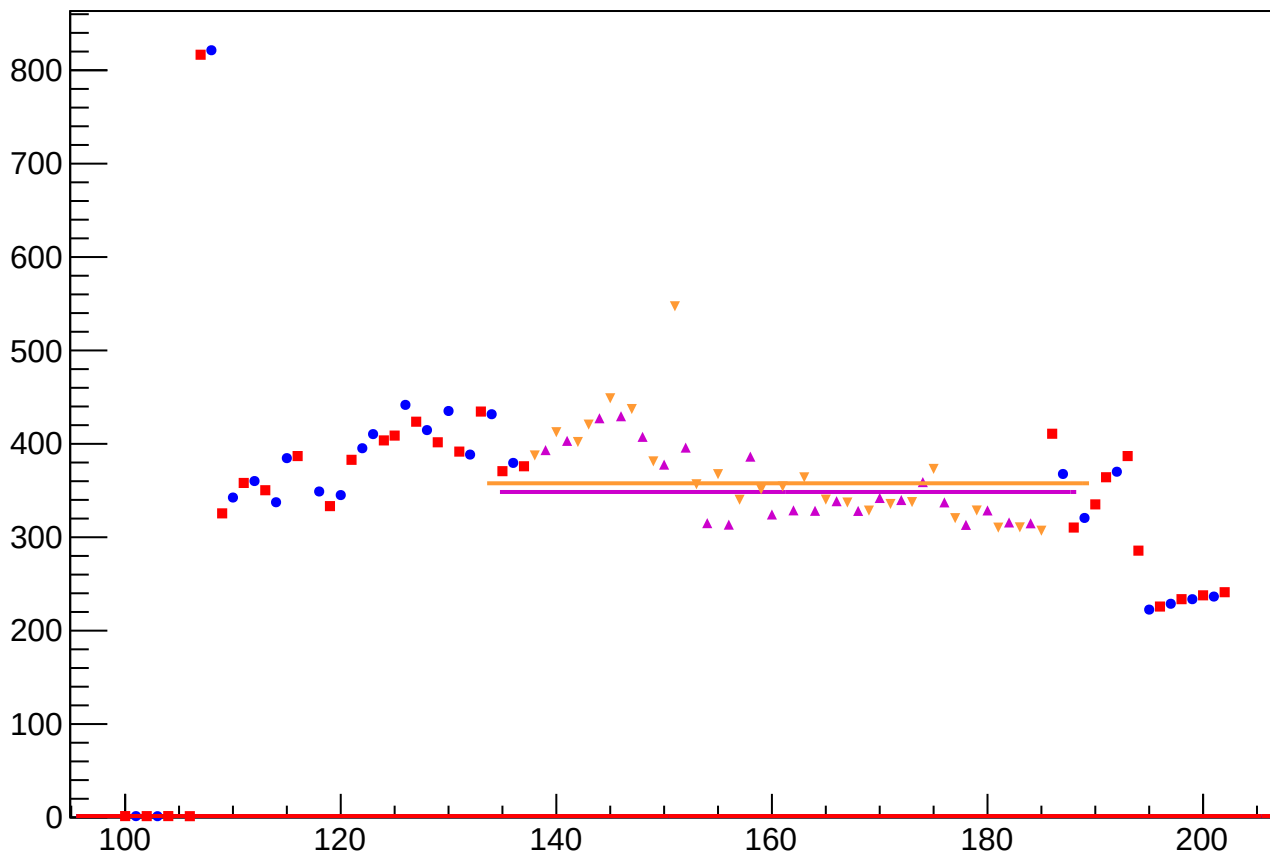
Right: 0.628 ± 1.185 χ^2/NDF : 36.1/52

In: -0.158 ± 1.736 χ^2/NDF : 29.4/46

Out: 1.291 ± 1.622 χ^2/NDF : 37.2/53

All: 0.615 ± 1.185 χ^2/NDF : 67.0/100

asym_cav4dQ_rms vs Slug, Sign Corrected



Right In: 1.507 $\pm$ 0.001 χ^2 /NDF: 20259104.4/23

Left Out: 357.771 $\pm$ 0.060 χ^2 /NDF:547124.8/24

Right Out: 1.510 $\pm$ 0.001 χ^2 /NDF: 23340775.4/28

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

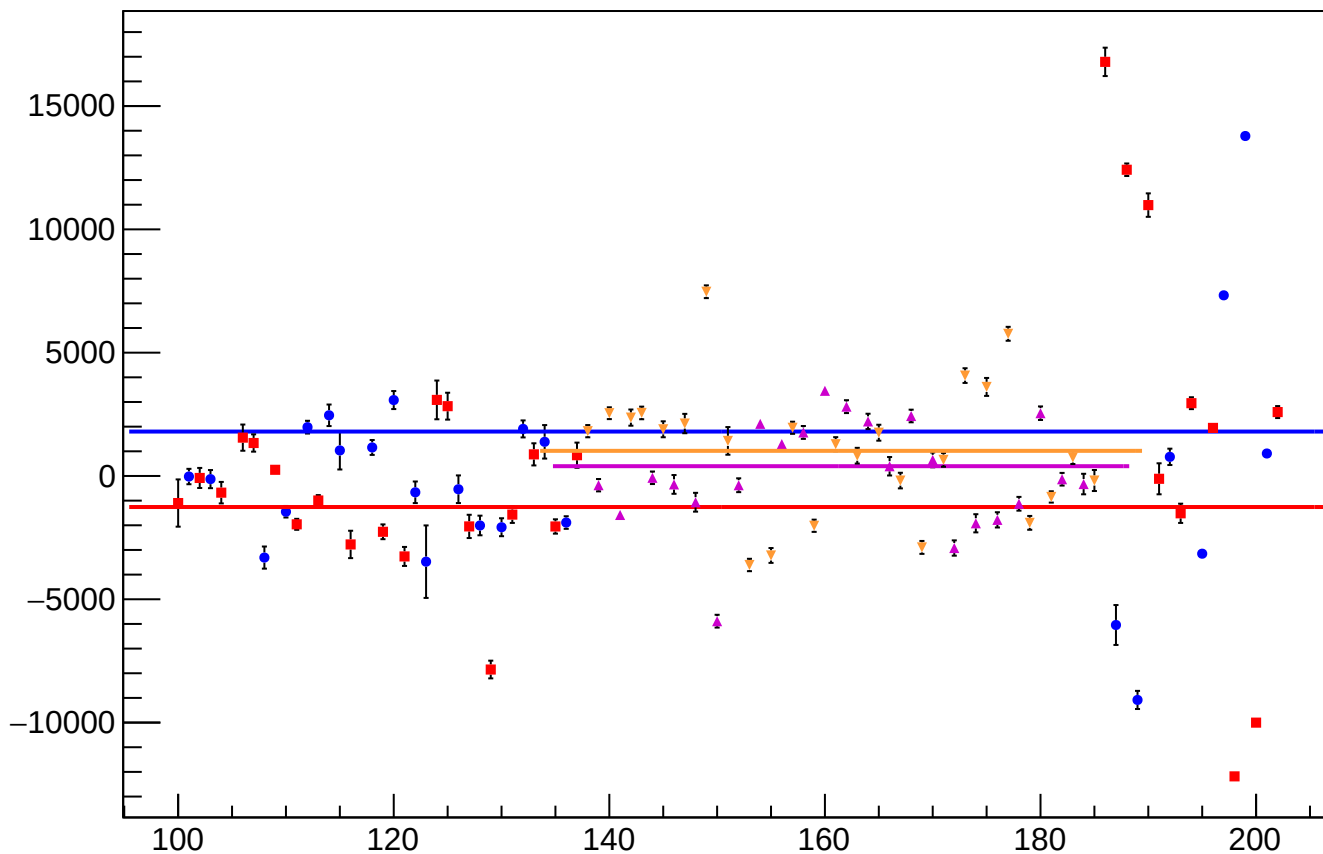
Right: 1.509 $\pm$ 0.001 χ^2 /NDF: 43599883.4/52

In: 1.653 $\pm$ 0.001 χ^2 /NDF:54184406.0/46

Out: 1.643 $\pm$ 0.001 χ^2 /NDF:59688158.0/53

All: 1.647 $\pm$ 0.001 χ^2 /NDF: 113872602.3/100

asym_bcm0l02_mean vs Slug, Sign Corrected



Right In: 1801.107 ± 61.313 $\chi^2/\text{NDF}: 7987.8/23$

Left Out: 1018.965 ± 57.402 $\chi^2/\text{NDF}: 2310.1/24$

Right Out: -1259.065 ± 56.140 $\chi^2/\text{NDF}: 11894.5/28$

Left In: 396.609 ± 55.090 $\chi^2/\text{NDF}: 1581.0/22$

Left: 695.002 ± 39.747 $\chi^2/\text{NDF}: 3952.3/47$

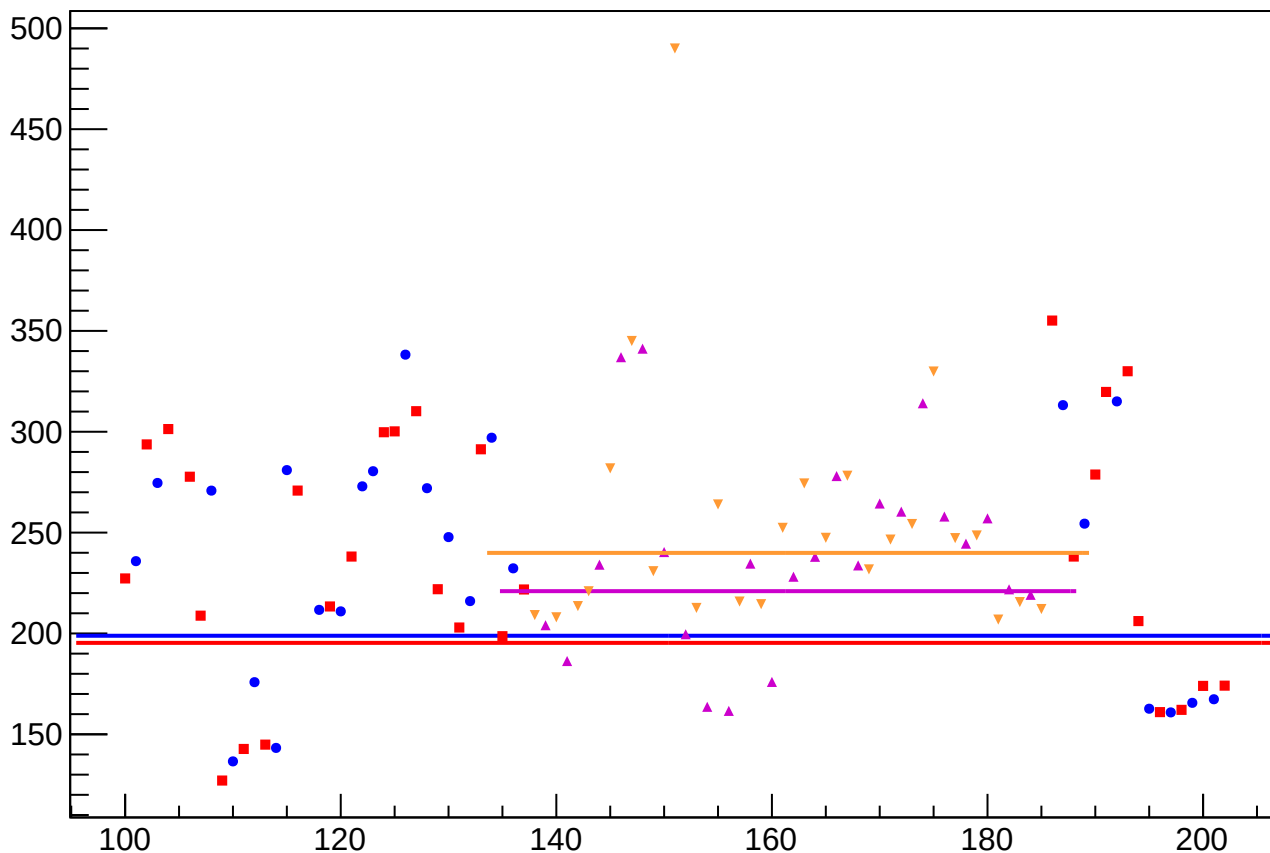
Right: 136.502 ± 41.405 $\chi^2/\text{NDF}: 21237.4/52$

In: 1023.992 ± 40.978 $\chi^2/\text{NDF}: 9859.2/46$

Out: -145.374 ± 40.136 $\chi^2/\text{NDF}: 15009.6/53$

All: 427.159 ± 28.673 $\chi^2/\text{NDF}: 25284.4/100$

asym_bcm0l02_rms vs Slug, Sign Corrected



Right In: 198.861+/-0.043 χ^2/NDF : 1371865.1/23

Left Out: 239.942+/-0.041 χ^2/NDF :1000770.0/24

Right Out: 195.332+/-0.040 χ^2/NDF : 1961576.2/28

Left In: 220.972+/-0.039 χ^2/NDF :1327680.6/22

Left: 230.067+/-0.028 χ^2/NDF : 2442154.9/47

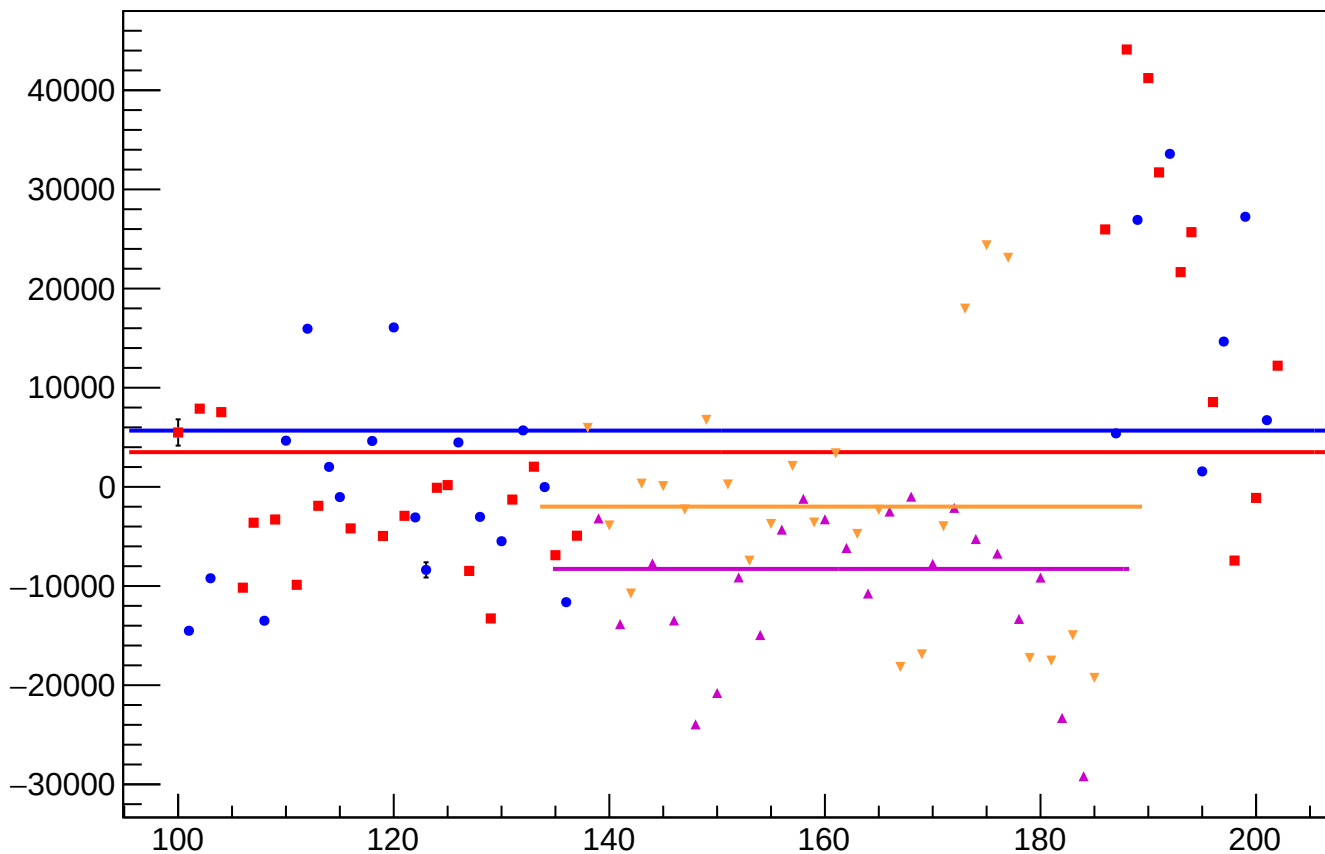
Right: 196.941+/-0.029 χ^2/NDF : 3337046.0/52

In: 211.095+/-0.029 χ^2/NDF :2843458.9/46

Out: 217.141+/-0.028 χ^2/NDF :3579743.7/53

All: 214.181+/-0.020 χ^2/NDF : 6445422.9/100

asym_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 5675.661 $\pm$ 45.367 χ^2 /NDF: 84673.6/23

Left Out: -1991.788 $\pm$ 42.427 χ^2 /NDF:63766.6/24

Right Out: 3501.445 $\pm$ 42.017 χ^2 /NDF: 132040.1/28

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

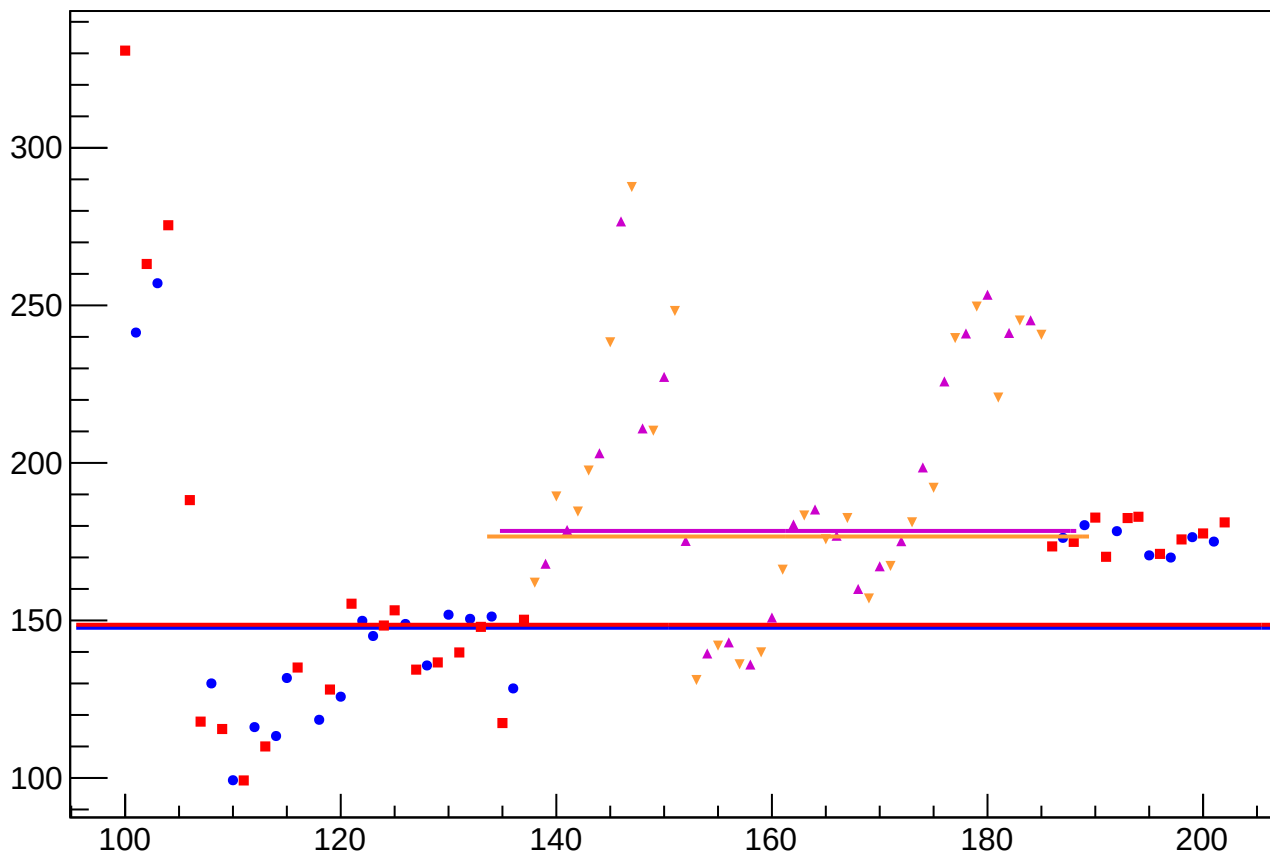
Right: 4505.325 $\pm$ 30.827 χ^2 /NDF: 217950.0/52

In: -1464.536 $\pm$ 31.696 χ^2 /NDF:155935.6/46

Out: 781.485 $\pm$ 29.854 χ^2 /NDF:204270.0/53

All: -274.390 $\pm$ 21.732 χ^2 /NDF: 362866.5/100

asym_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 147.684+/-0.032 χ^2/NDF : 993110.2/23

Left Out: 176.641+/-0.030 χ^2/NDF :1551048.8/24

Right Out: 148.632+/-0.030 χ^2/NDF : 1353383.1/28

Left In: 178.413+/-0.031 χ^2/NDF :1293736.2/22

Left: 177.489+/-0.022 χ^2/NDF : 2846455.0/47

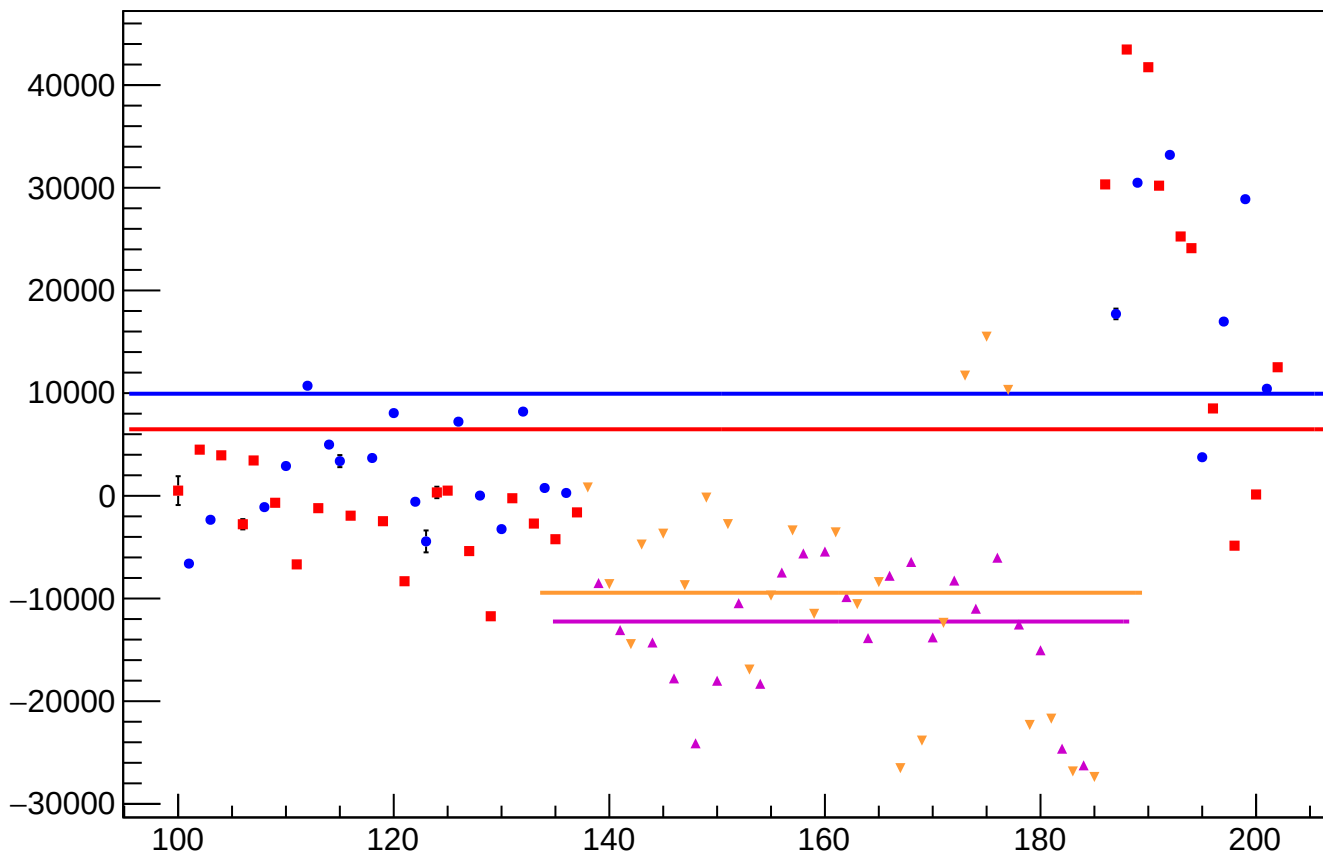
Right: 148.194+/-0.022 χ^2/NDF : 2346963.0/52

In: 163.414+/-0.022 χ^2/NDF :2756547.0/46

Out: 162.500+/-0.021 χ^2/NDF :3344487.7/53

All: 162.930+/-0.015 χ^2/NDF : 6101915.2/100

asym_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 9942.915 $\pm$ 53.109

χ^2/NDF : 45569.6/23

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: 8047.941 $\pm$ -35.734

χ^2/NDF : 150023.6/52

Right Out: 6480.357 $\pm$ -48.304

χ^2/NDF : 102127.7/28

In: -3226.097 $\pm$ -33.857

χ^2/NDF :165765.1/46

Out: -1947.955 $\pm$ -33.134

χ^2/NDF :221846.3/53

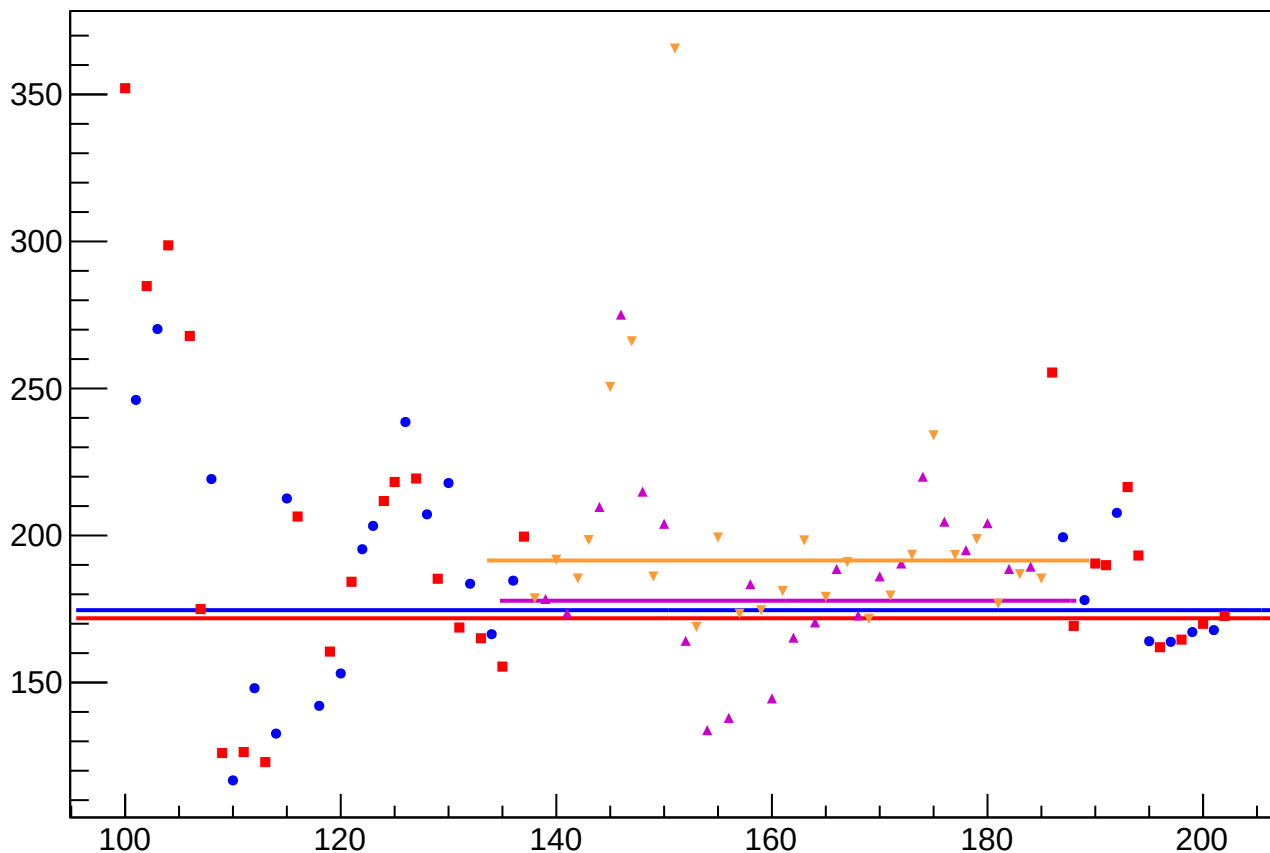
Left In: -12242.226 $\pm$ -43.944

χ^2/NDF :16615.8/22

All: -2573.223 $\pm$ -23.681

χ^2/NDF : 388339.3/1

asym_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 174.606+/-0.038 χ^2/NDF : 758043.5/23

Left Out: 191.507+/-0.032 χ^2/NDF : 727251.6/24

Right Out: 171.850+/-0.034 χ^2/NDF : 1123599.9/28

Left In: 177.821+/-0.031 χ^2/NDF : 862494.4/22

Left: 184.421+/-0.022 χ^2/NDF : 1683284.8/47

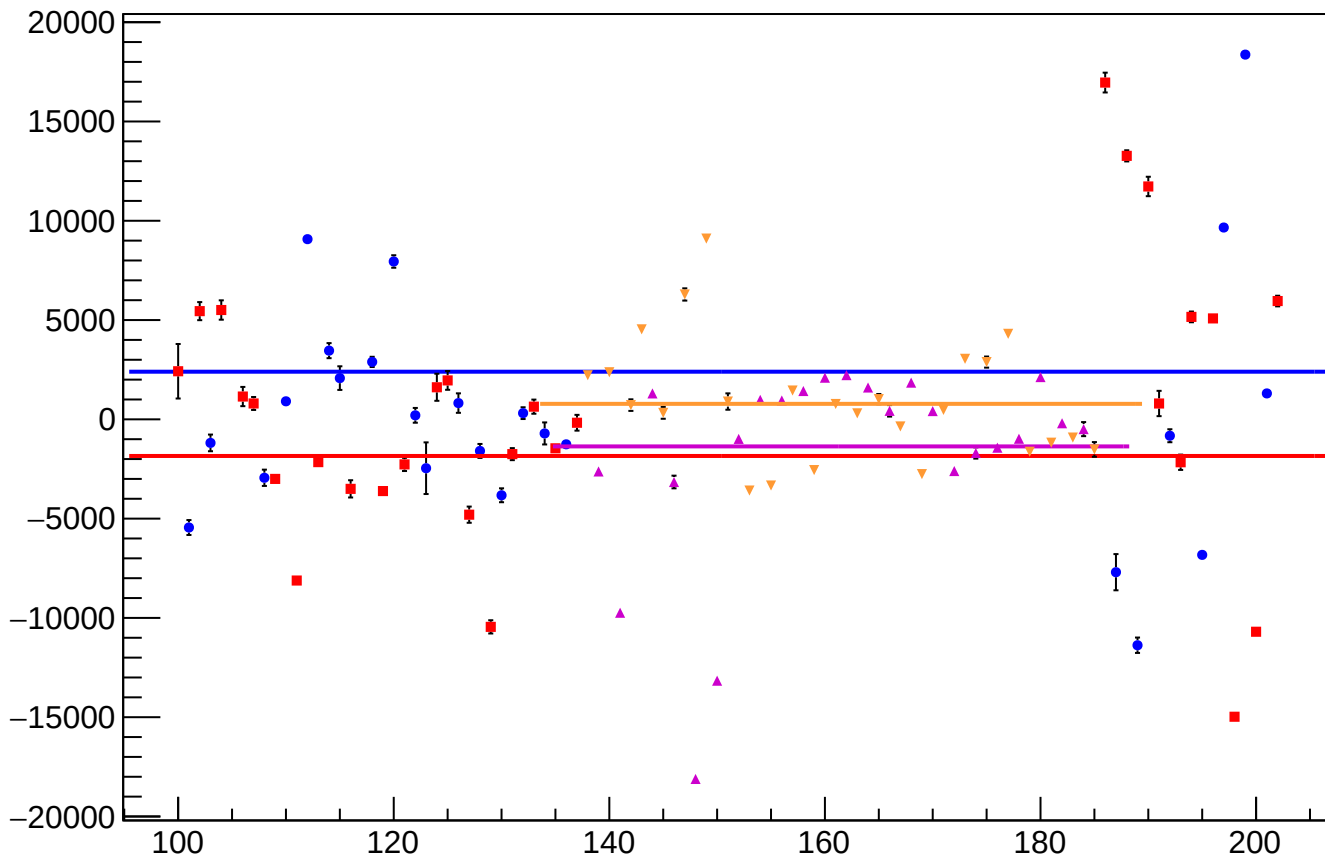
Right: 173.098+/-0.025 χ^2/NDF : 1884590.5/52

In: 176.515+/-0.024 χ^2/NDF : 1624890.1/46

Out: 182.258+/-0.023 χ^2/NDF : 2026216.8/53

All: 179.448+/-0.017 χ^2/NDF : 3680505.7/100

asym_bpm0i05WS_mean vs Slug, Sign Corrected



Right In: 2399.071 $\pm$ 59.614 χ^2 /NDF: 14191.0/23

Left Out: 779.983 $\pm$ 47.457 χ^2 /NDF:4260.8/24

Right Out: -1844.516 $\pm$ 54.666 χ^2 /NDF: 16534.3/28

Left In: -1363.043 $\pm$ 45.807 χ^2 /NDF:11632.9/22

Left: -329.448 $\pm$ 32.958 χ^2 /NDF: 16949.3/47

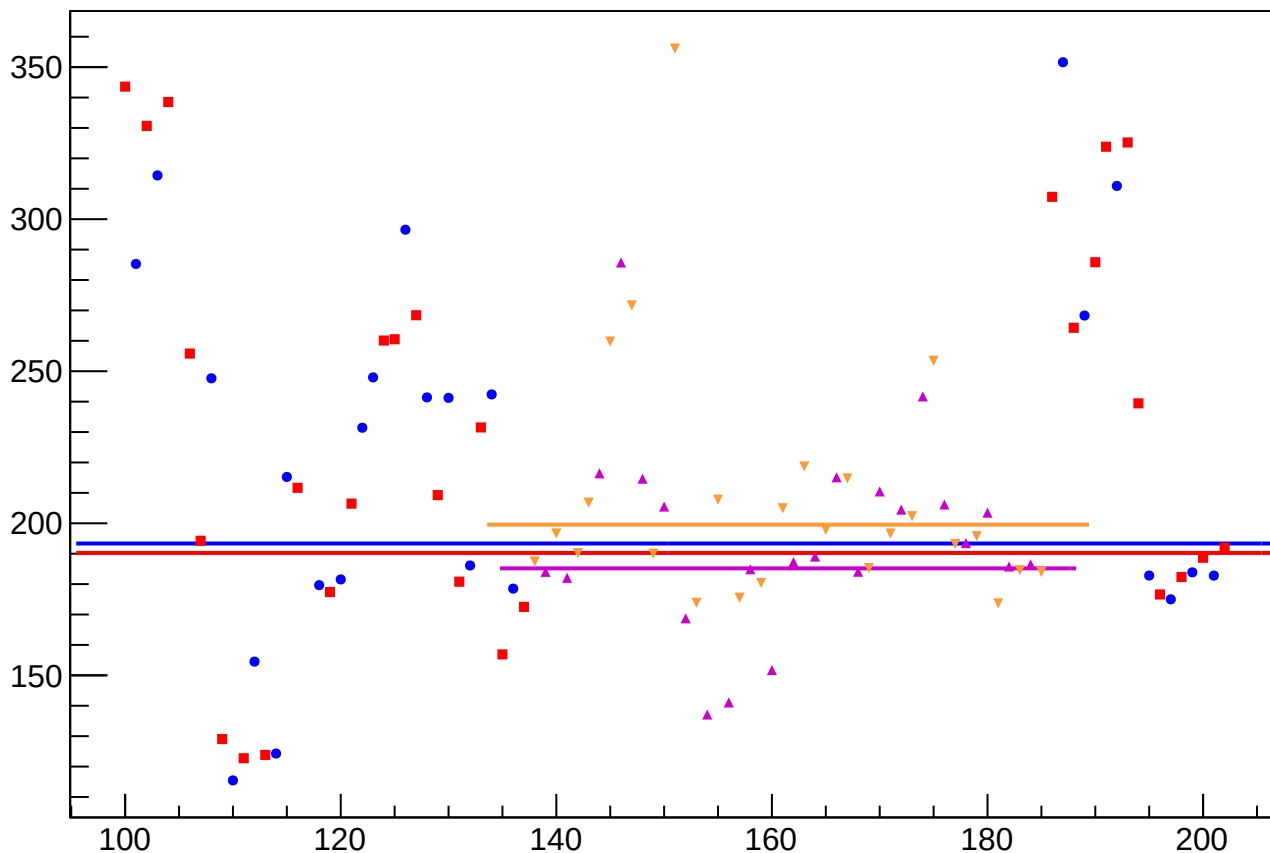
Right: 93.893 $\pm$ 40.290 χ^2 /NDF: 33477.8/52

In: 33.592 $\pm$ 36.322 χ^2 /NDF:28328.0/46

Out: -347.928 $\pm$ 35.837 χ^2 /NDF:22109.4/53

All: -159.733 $\pm$ 25.510 χ^2 /NDF: 50493.3/100

asym_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 193.348 $\pm$ 0.042 χ^2/NDF : 1406215.6/23

Left Out: 199.547 $\pm$ 0.034 χ^2/NDF : 729356.3/24

Right Out: 190.243 $\pm$ 0.039 χ^2/NDF : 2127644.8/28

Left In: 185.171 $\pm$ 0.032 χ^2/NDF : 882752.2/22

Left: 192.104 $\pm$ 0.023 χ^2/NDF : 1707122.0/47

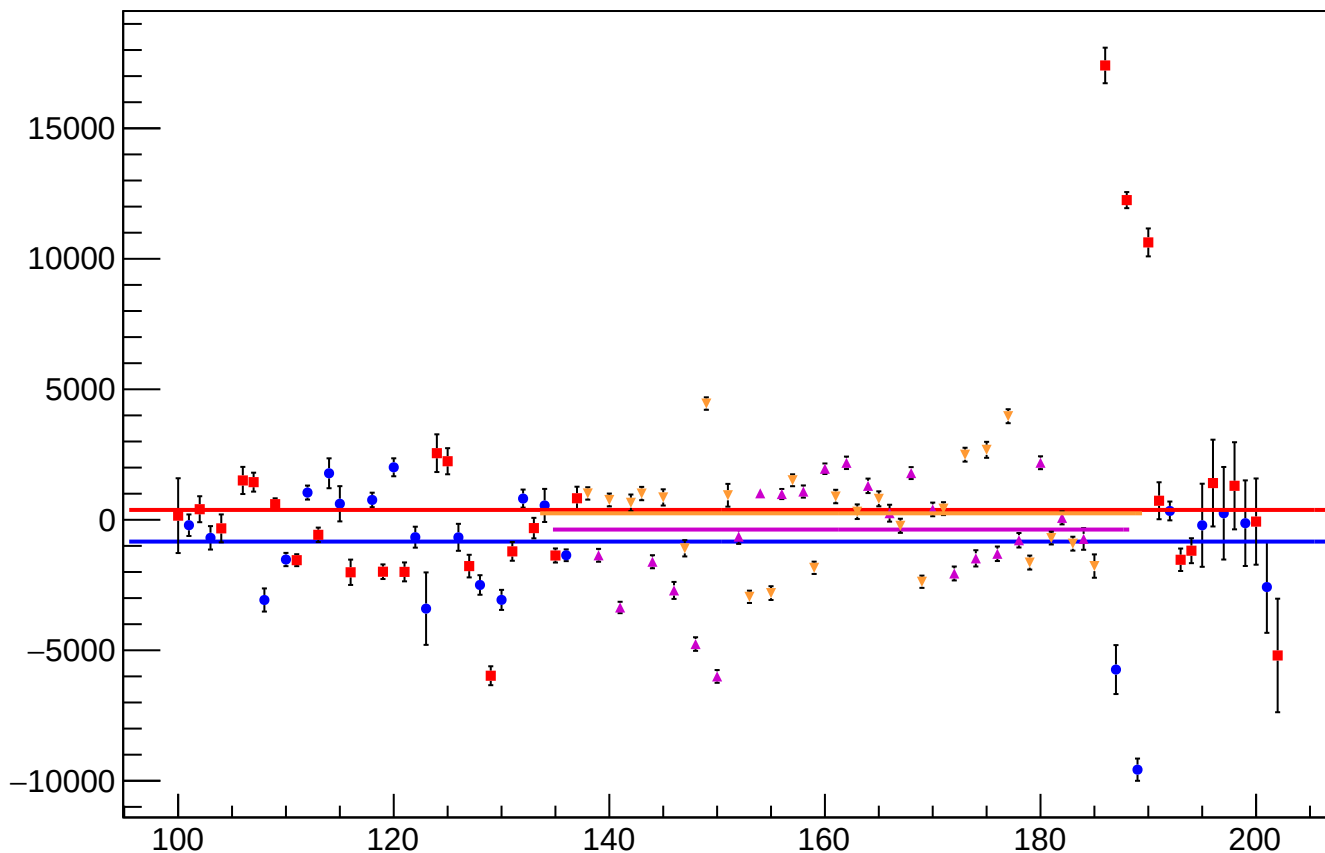
Right: 191.661 $\pm$ 0.028 χ^2/NDF : 3536808.8/52

In: 188.206 $\pm$ 0.026 χ^2/NDF : 2312631.8/46

Out: 195.548 $\pm$ 0.025 χ^2/NDF : 2890037.8/53

All: 191.927 $\pm$ 0.018 χ^2/NDF : 5244075.6/100

asym_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -834.893 ± 83.739 $\chi^2/\text{NDF}: 761.1/23$

Left Out: 247.844 ± 53.555 $\chi^2/\text{NDF}: 1355.1/24$

Right Out: 377.934 ± 75.140 $\chi^2/\text{NDF}: 3169.1/28$

Left In: -374.122 ± 52.049 $\chi^2/\text{NDF}: 1801.0/22$

Left: -72.006 ± 37.325 $\chi^2/\text{NDF}: 3225.5/47$

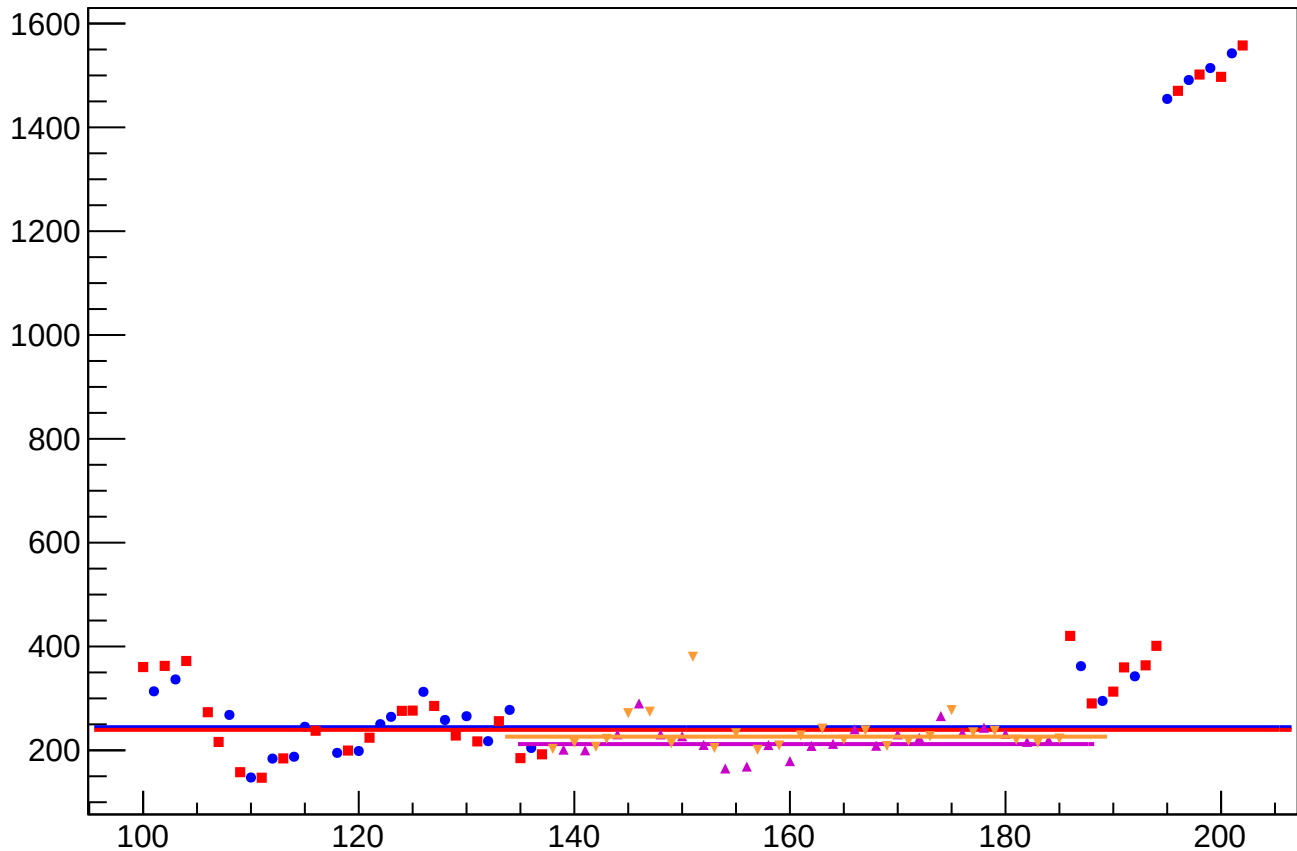
Right: -163.030 ± 55.926 $\chi^2/\text{NDF}: 4046.5/52$

In: -502.528 ± 44.206 $\chi^2/\text{NDF}: 2584.0/46$

Out: 291.667 ± 43.611 $\chi^2/\text{NDF}: 4526.2/53$

All: -100.056 ± 31.046 $\chi^2/\text{NDF}: 7273.8/100$

asym_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 244.489 $\pm$ 0.059 χ^2 /NDF: 5427704.9/23

Left Out: 226.322 $\pm$ 0.038 χ^2 /NDF: 521041.8/24

Right Out: 239.449 $\pm$ 0.053 χ^2 /NDF: 5967447.8/28

Left In: 211.970 $\pm$ 0.037 χ^2 /NDF: 584344.5/22

Left: 218.941 $\pm$ 0.026 χ^2 /NDF: 1179246.7/47

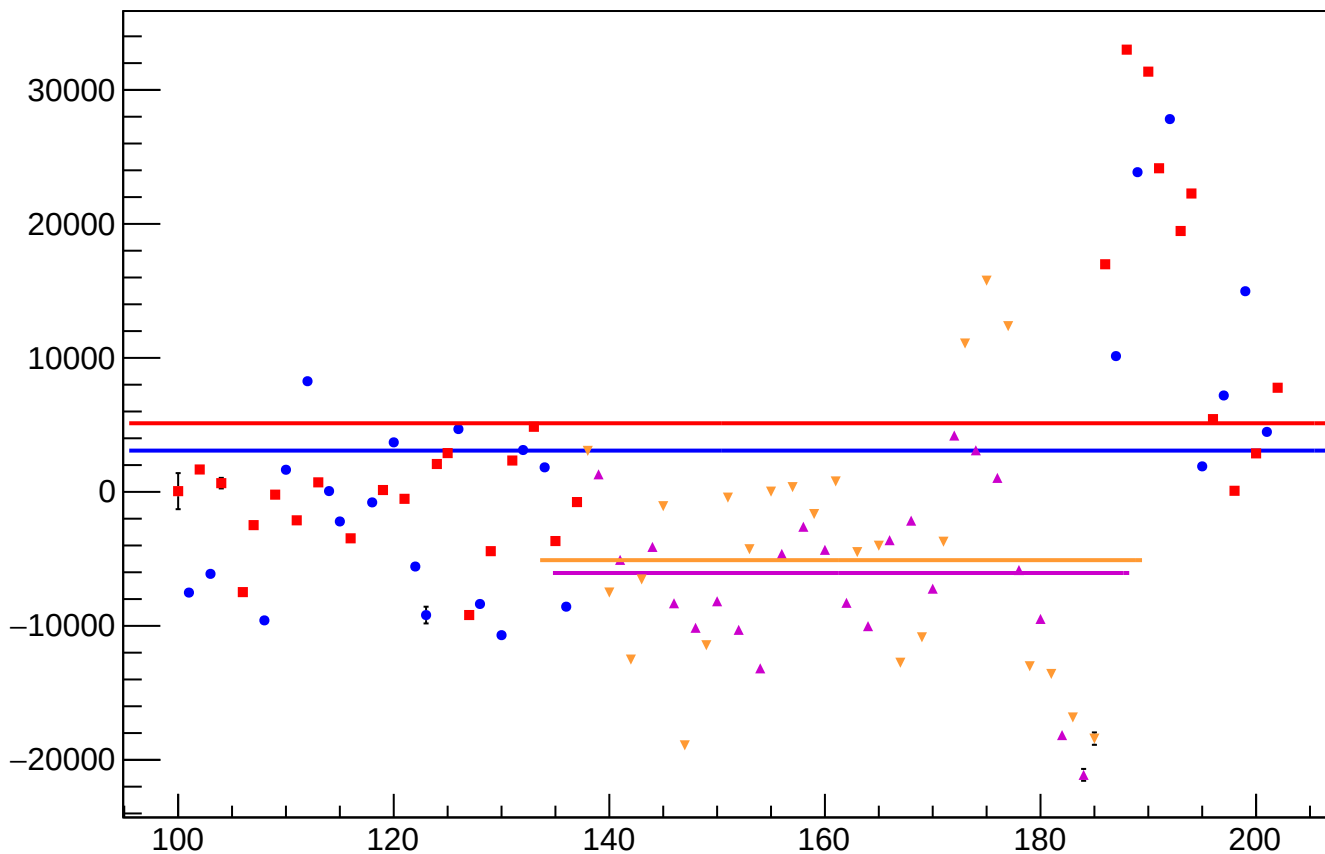
Right: 241.697 $\pm$ 0.040 χ^2 /NDF: 11399165.5/52

In: 221.032 $\pm$ 0.031 χ^2 /NDF: 6229608.2/46

Out: 230.744 $\pm$ 0.031 χ^2 /NDF: 6528972.0/53

All: 225.954 $\pm$ 0.022 χ^2 /NDF: 12807498.0/100

asym_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: 3081.097+/-38.563

χ^2/NDF : 73214.0/23

Left Out: -5095.305+/-33.703

χ^2/NDF :54395.4/24

Right Out: 5121.595+/-35.401

χ^2/NDF : 100997.5/28

Left In: -6053.569+/-34.998

χ^2/NDF :17590.3/22

Left: -5556.386+/-24.277

χ^2/NDF : 72374.6/47

Right: 4188.416+/-26.078

χ^2/NDF : 175730.8/52

In: -1927.855+/-25.916

χ^2/NDF :121572.6/46

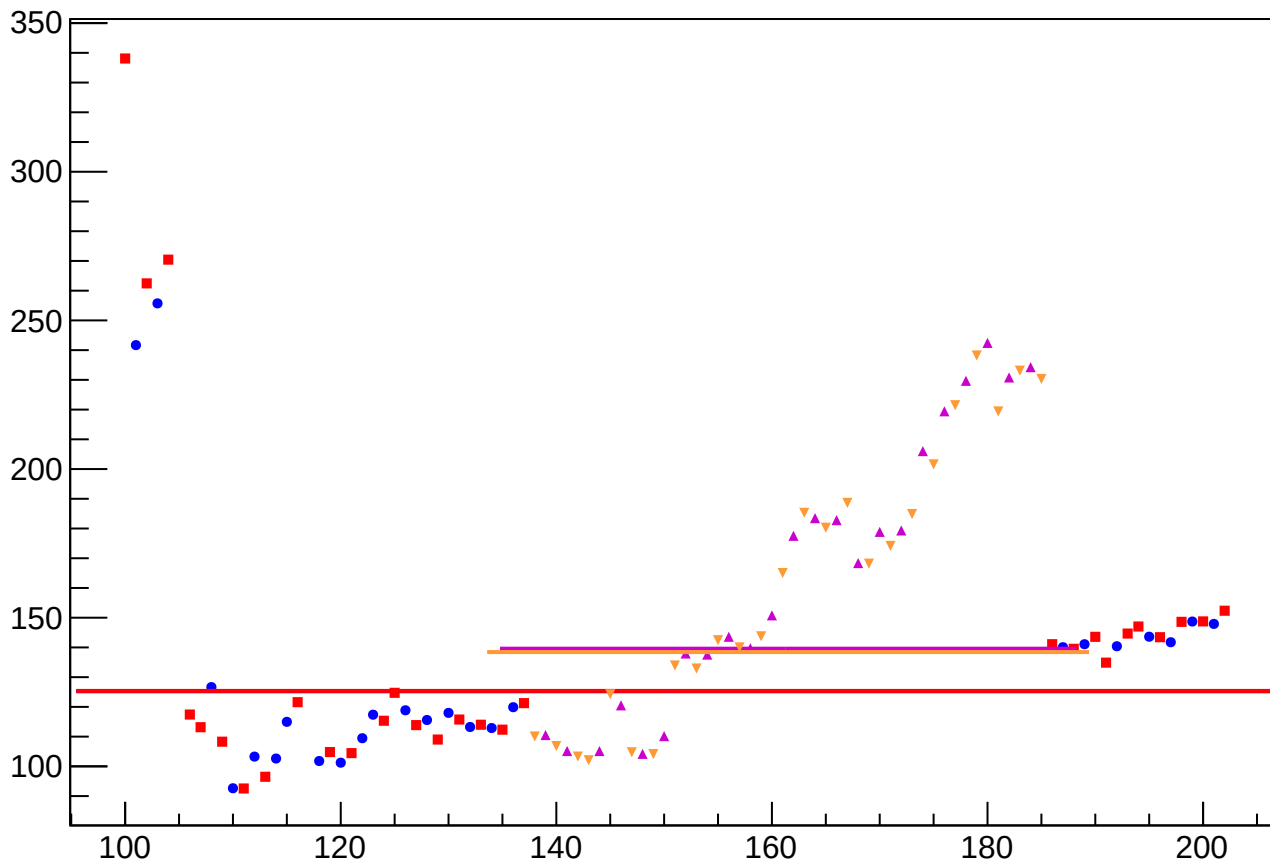
Out: -237.658+/-24.410

χ^2/NDF :199084.3/53

All: -1032.216+/-17.769

χ^2/NDF : 322910.7/1

asym_bpm1i02WS_rms vs Slug, Sign Corrected



Right In: 125.263+/-0.027 χ^2/NDF : 985803.1/23

Left Out: 138.436+/-0.024 χ^2/NDF :2549435.8/24

Right Out: 125.375+/-0.025 χ^2/NDF : 1178338.6/28

Left In: 139.578+/-0.025 χ^2/NDF :2413658.9/22

Left: 138.985+/-0.017 χ^2/NDF : 4964199.7/47

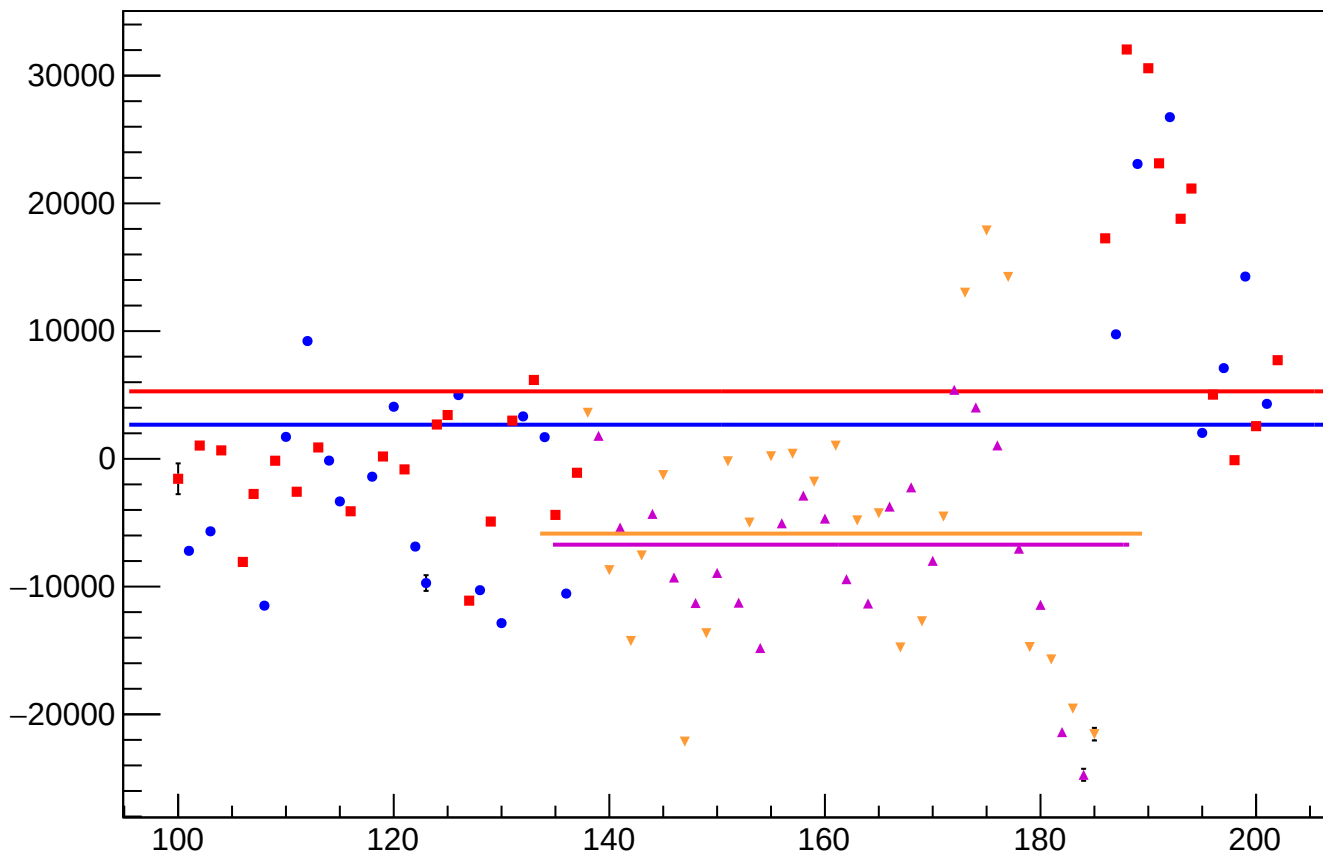
Right: 125.324+/-0.018 χ^2/NDF : 2164150.9/52

In: 133.112+/-0.018 χ^2/NDF :3550585.1/46

Out: 132.226+/-0.017 χ^2/NDF :3870566.7/53

All: 132.643+/-0.013 χ^2/NDF : 7422391.2/100

asym_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: 2672.765+/-38.919

χ^2/NDF : 78234.9/23

Left: -6268.993+/-25.850

χ^2/NDF : 84625.8/47

Left Out: -5852.544+/-35.880

χ^2/NDF : 63411.4/24

Right: 4087.113+/-26.346

χ^2/NDF : 182192.1/52

Right Out: 5283.529+/-35.795

χ^2/NDF : 101519.4/28

In: -2225.338+/-26.920

χ^2/NDF : 129537.7/46

Out: -271.389+/-25.341

χ^2/NDF : 213209.7/53

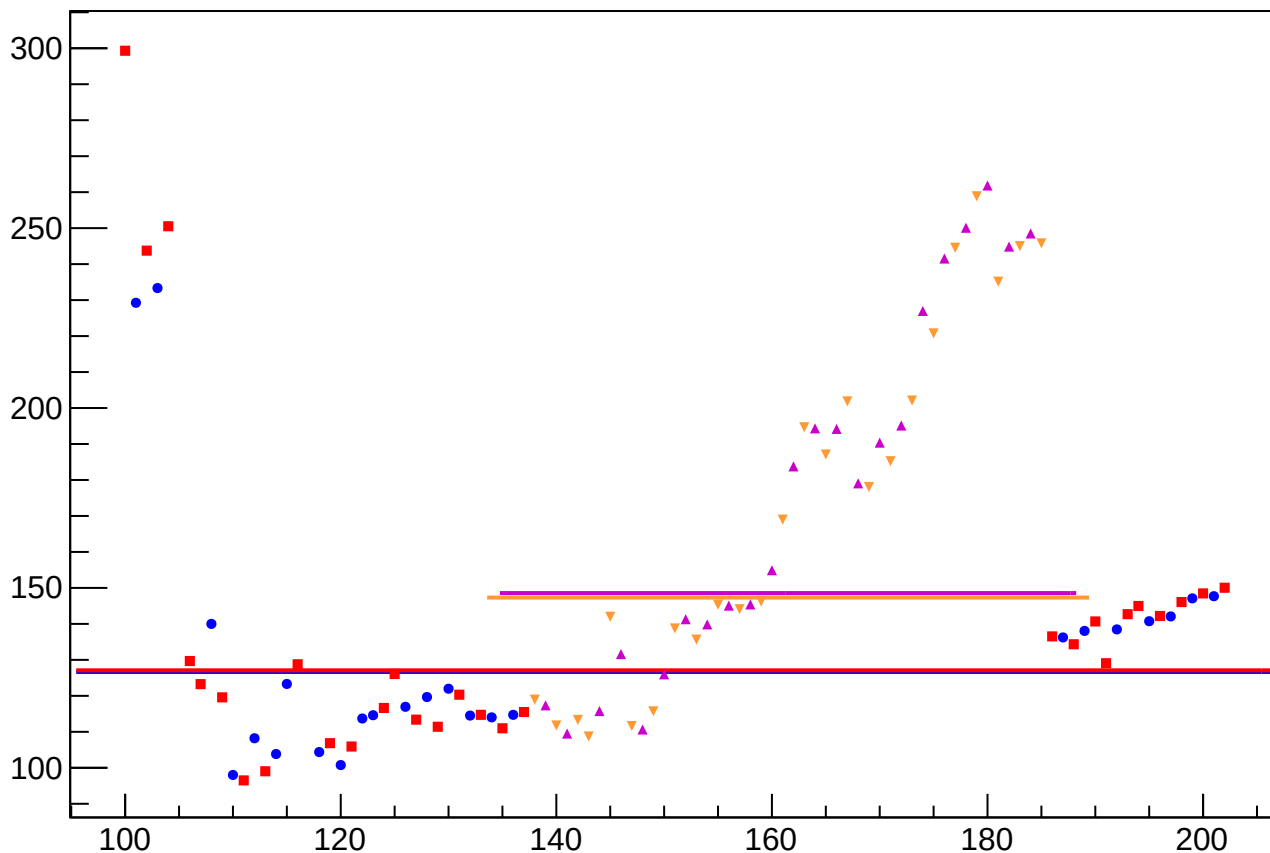
Left In: -6718.475+/-37.276

χ^2/NDF : 20934.3/22

All: -1189.374+/-18.452

χ^2/NDF : 345540.6/1

asym_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 126.643+/-0.028 χ^2/NDF : 816896.9/23

Left Out: 147.317+/-0.025 χ^2/NDF : 2511679.9/24

Right Out: 127.100+/-0.025 χ^2/NDF : 947122.5/28

Left In: 148.569+/-0.026 χ^2/NDF : 2393185.0/22

Left: 147.919+/-0.018 χ^2/NDF : 4906034.9/47

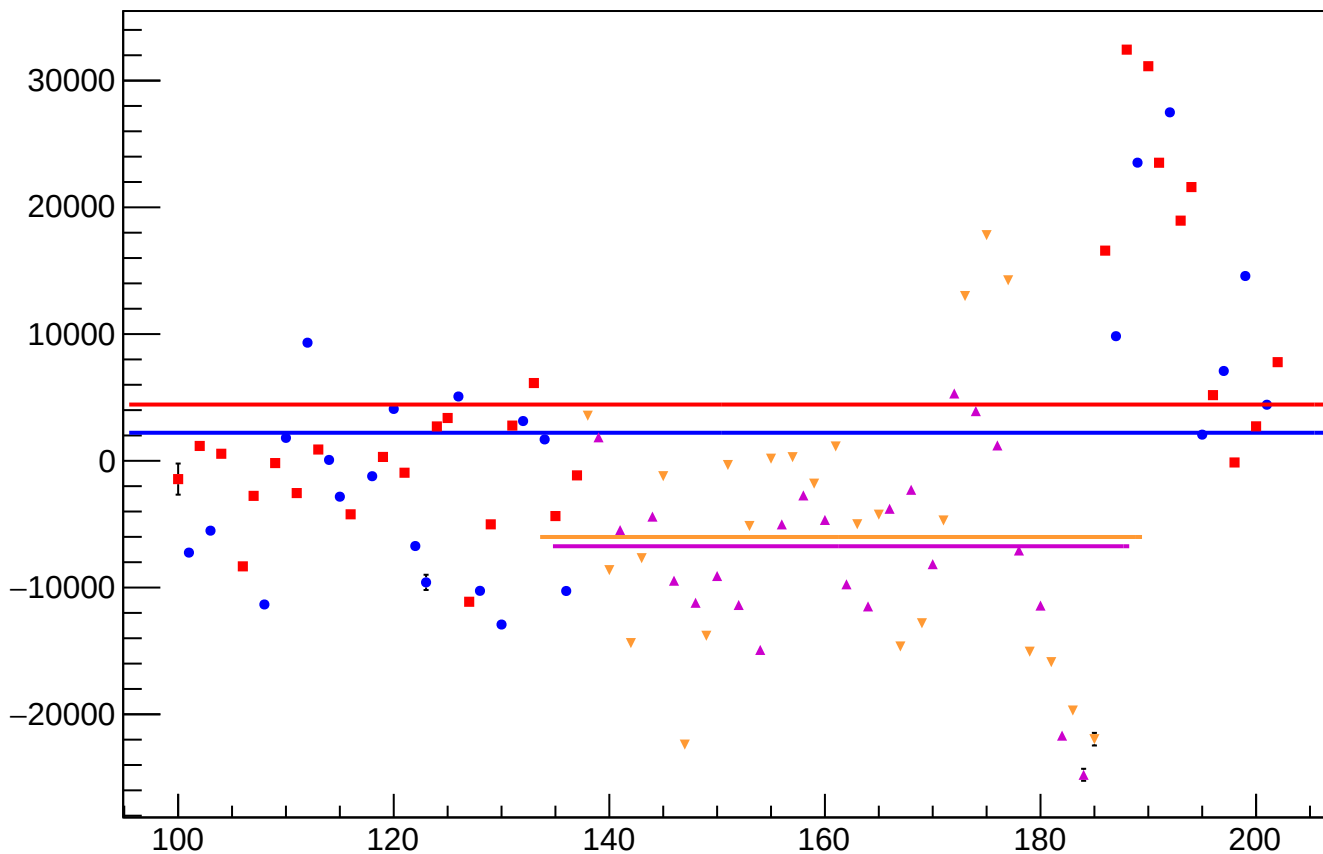
Right: 126.891+/-0.019 χ^2/NDF : 1764168.9/52

In: 138.078+/-0.019 χ^2/NDF : 3541145.0/46

Out: 137.185+/-0.018 χ^2/NDF : 3777048.1/53

All: 137.605+/-0.013 χ^2/NDF : 7319361.7/100

asym_bpm2i02WS_mean vs Slug, Sign Corrected



Right In: 2214.338 $\pm$ 38.288 χ^2 /NDF: 77641.1/23

Left Out: -6009.913 $\pm$ 35.082 χ^2 /NDF: 67852.2/24

Right Out: 4440.442 $\pm$ 35.446 χ^2 /NDF: 96113.6/28

Left In: -6740.666 $\pm$ 36.379 χ^2 /NDF: 22071.8/22

Left: -6362.031 $\pm$ 25.253 χ^2 /NDF: 90133.1/47

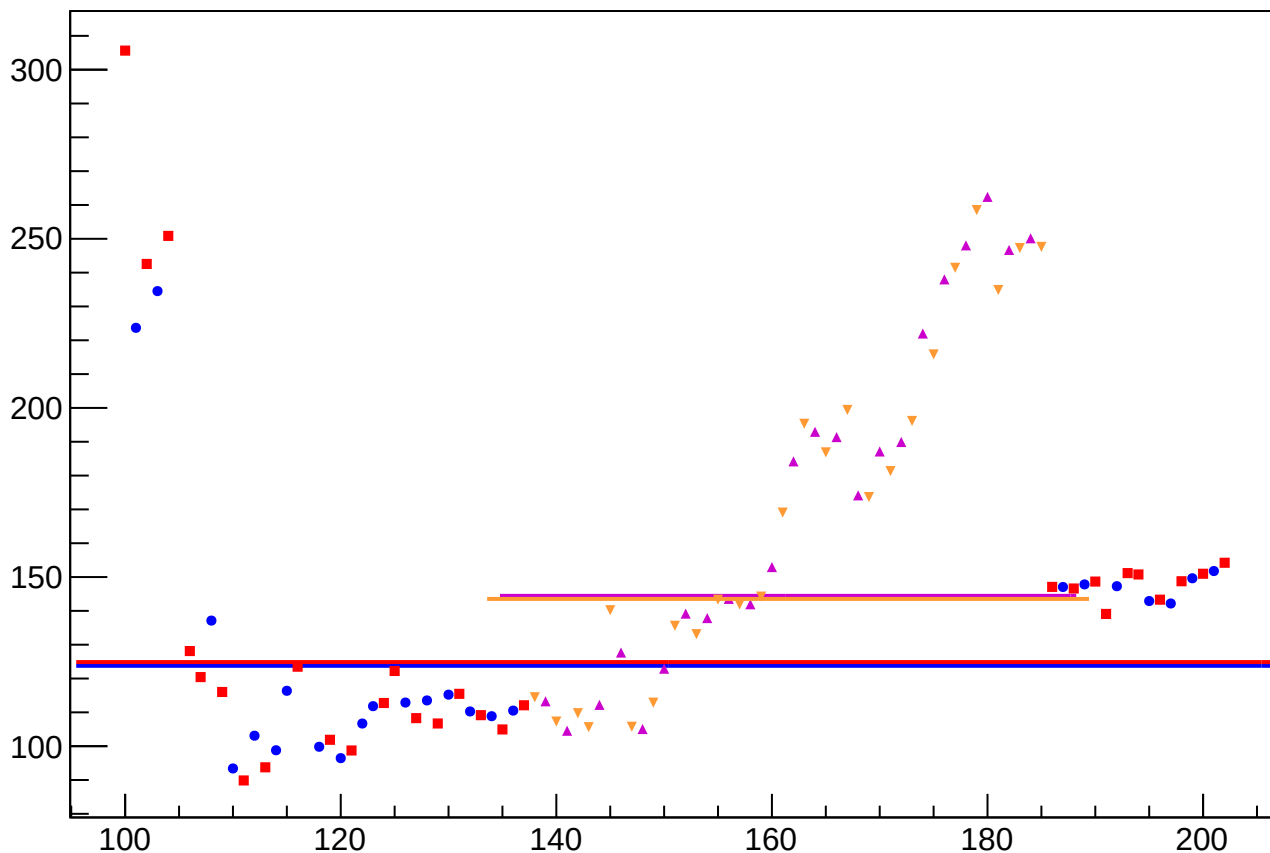
Right: 3413.062 $\pm$ 26.011 χ^2 /NDF: 175574.9/52

In: -2491.961 $\pm$ 26.373 χ^2 /NDF: 128461.1/46

Out: -838.681 $\pm$ 24.935 χ^2 /NDF: 207874.2/53

All: -1619.006 $\pm$ 18.119 χ^2 /NDF: 338410.3/102

asym_bpm2i02WS_rms vs Slug, Sign Corrected



Right In: 123.765+/-0.027 χ^2/NDF : 1025570.3/23

Left Out: 143.531+/-0.025 χ^2/NDF : 2704790.3/24

Right Out: 124.864+/-0.025 χ^2/NDF : 1274108.0/28

Left In: 144.440+/-0.026 χ^2/NDF : 2586926.1/22

Left: 143.969+/-0.018 χ^2/NDF : 5292363.3/47

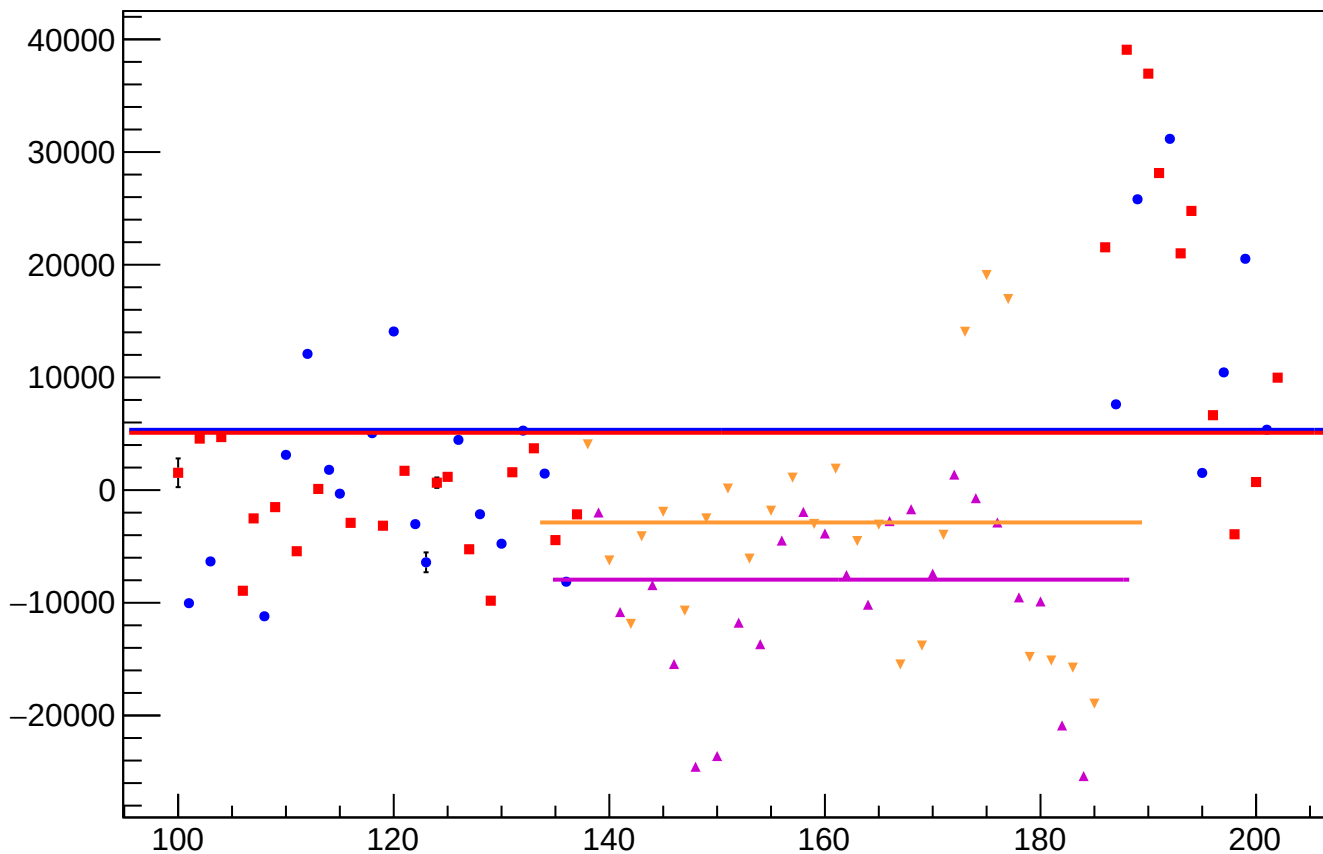
Right: 124.357+/-0.018 χ^2/NDF : 2300564.6/52

In: 134.631+/-0.019 χ^2/NDF : 3918955.1/46

Out: 134.294+/-0.018 χ^2/NDF : 4259094.9/53

All: 134.453+/-0.013 χ^2/NDF : 8178222.7/100

asym_bpm0i01WS_mean vs Slug, Sign Corrected



Right In: 5348.416+/-46.340 χ^2/NDF : 58687.7/23

Left Out: -2870.473+/-39.482 χ^2/NDF : 46420.3/24

Right Out: 5088.919+/-42.892 χ^2/NDF : 95214.4/28

Left In: -7947.160+/-41.726 χ^2/NDF : 23874.5/22

Left: -5268.670+/-28.678 χ^2/NDF : 78105.0/47

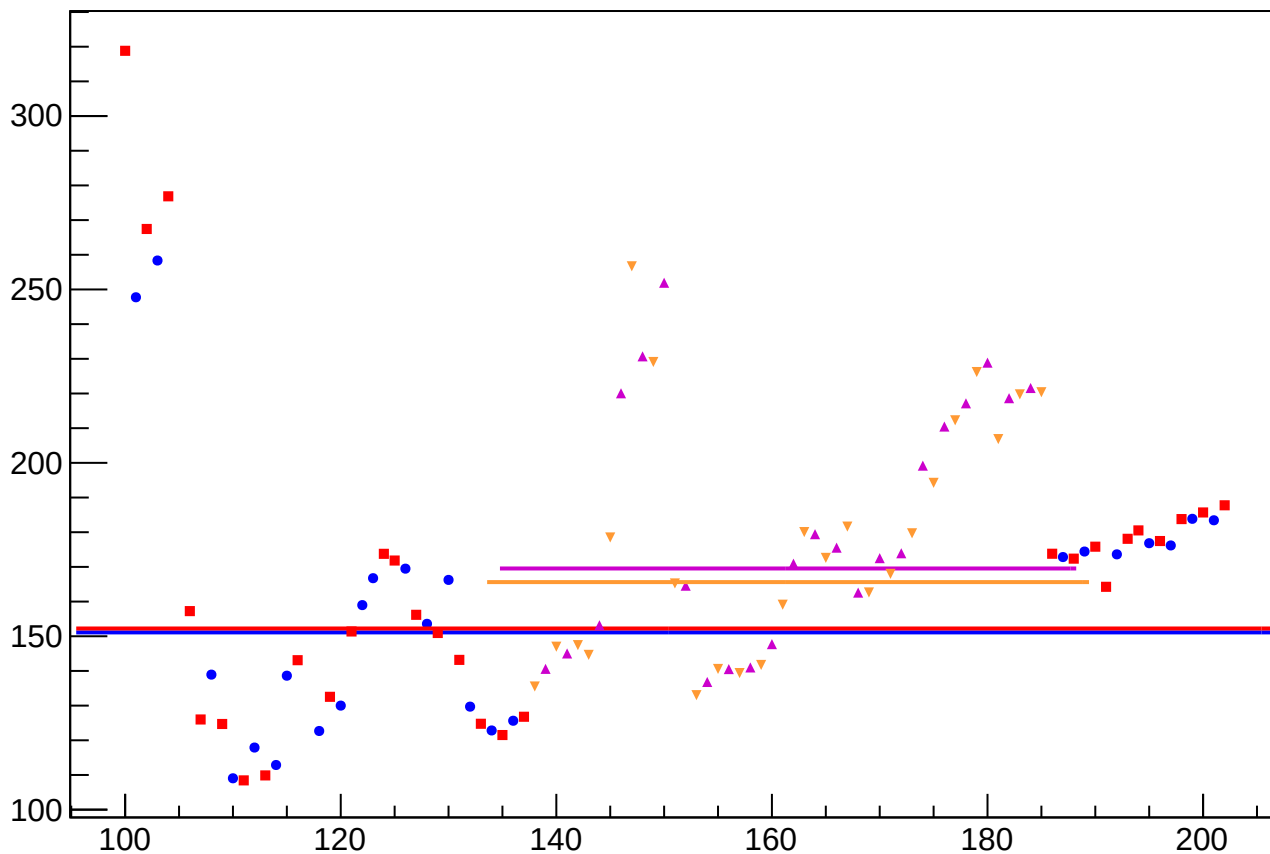
Right: 5208.656+/-31.478 χ^2/NDF : 153919.0/52

In: -1994.124+/-31.008 χ^2/NDF : 128023.1/46

Out: 780.278+/-29.049 χ^2/NDF : 160275.3/53

All: -516.523+/-21.199 χ^2/NDF : 292562.0/100

asym_bpm0i01WS_rms vs Slug, Sign Corrected



Right In: 151.110 ± 0.033 $\chi^2/\text{NDF}: 986536.0/23$

Left Out: 165.616 ± 0.028 $\chi^2/\text{NDF}: 1144779.3/24$

Right Out: 152.239 ± 0.030 $\chi^2/\text{NDF}: 1206653.9/28$

Left In: 169.542 ± 0.030 $\chi^2/\text{NDF}: 1159241.9/22$

Left: 167.471 ± 0.020 $\chi^2/\text{NDF}: 2313359.6/47$

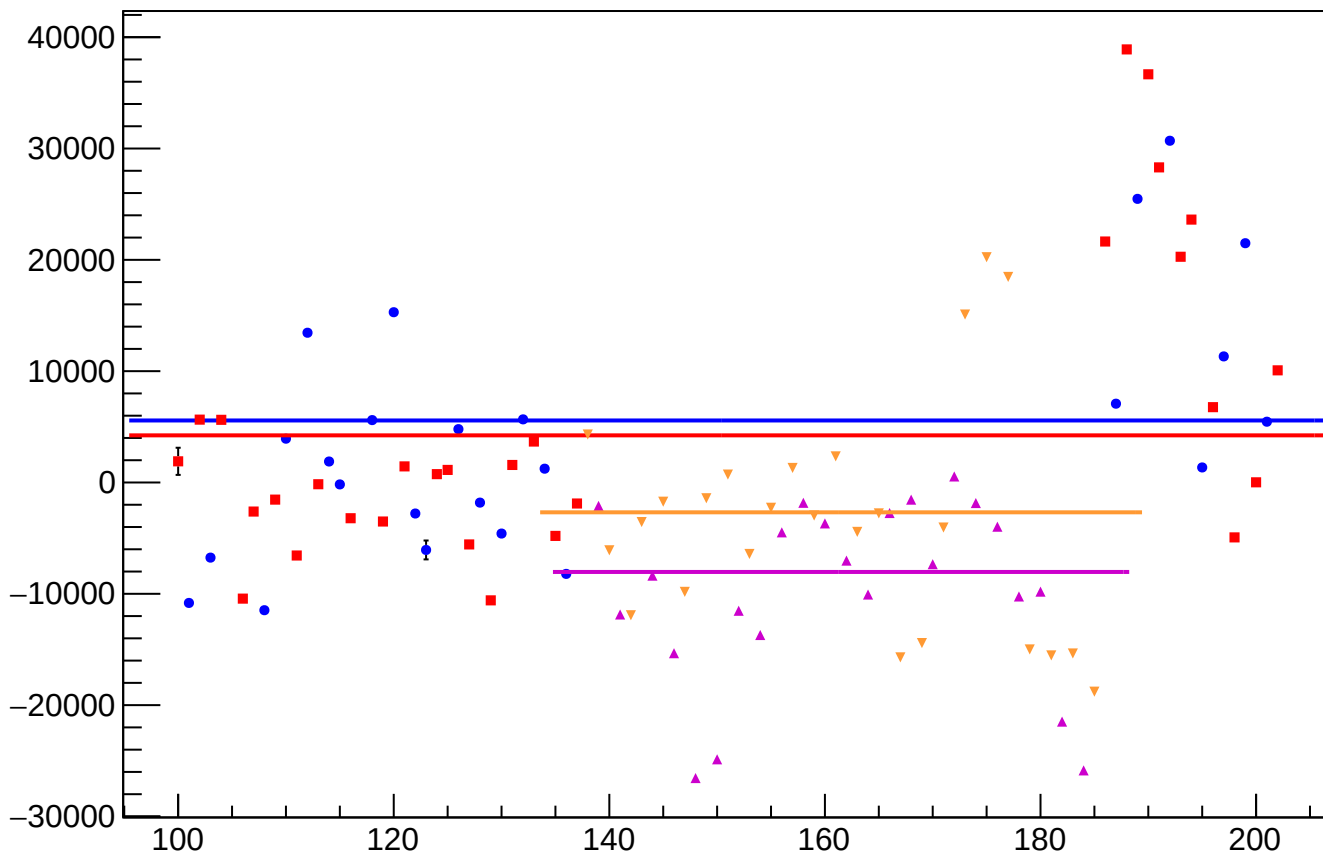
Right: 151.718 ± 0.022 $\chi^2/\text{NDF}: 2193829.3/52$

In: 161.289 ± 0.022 $\chi^2/\text{NDF}: 2320507.8/46$

Out: 159.481 ± 0.021 $\chi^2/\text{NDF}: 2456737.3/53$

All: 160.326 ± 0.015 $\chi^2/\text{NDF}: 4780868.0/100$

asym_bpm0i01aWS_mean vs Slug, Sign Corrected



Right In: 5570.797+/-38.999

χ^2/NDF : 82364.7/23

Left Out: -2680.012+/-35.764

χ^2/NDF : 56820.4/24

Right Out: 4233.934+/-35.879

χ^2/NDF : 132312.7/28

Left In: -8036.826+/-37.924

χ^2/NDF : 29261.6/22

Left: -5201.473+/-26.019

χ^2/NDF : 96642.3/47

Right: 4846.751+/-26.405

χ^2/NDF : 215313.8/52

In: -1423.110+/-27.189

χ^2/NDF : 174199.8/46

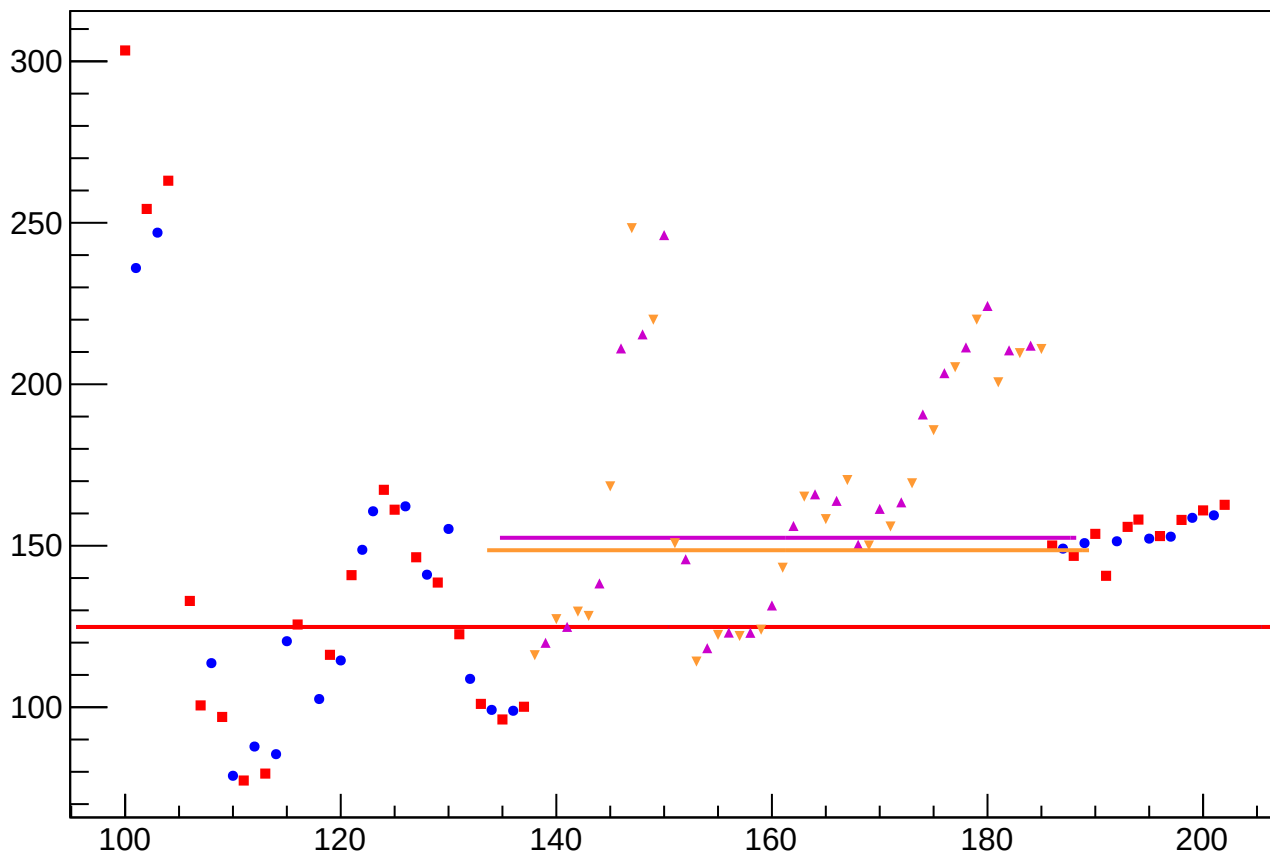
Out: 765.839+/-25.329

χ^2/NDF : 207760.0/53

All: -251.237+/-18.533

χ^2/NDF : 385429.9/10

asym_bpm0i01aWS_rms vs Slug, Sign Corrected



Right In: 124.847 $\pm$ 0.028 χ^2 /NDF: 1613240.0/23

Left Out: 148.611 $\pm$ 0.025 χ^2 /NDF:1685424.1/24

Right Out: 124.850 $\pm$ 0.025 χ^2 /NDF: 1995515.0/28

Left In: 152.463 $\pm$ 0.027 χ^2 /NDF:1691517.7/22

Left: 150.424 $\pm$ 0.018 χ^2 /NDF: 3387867.0/47

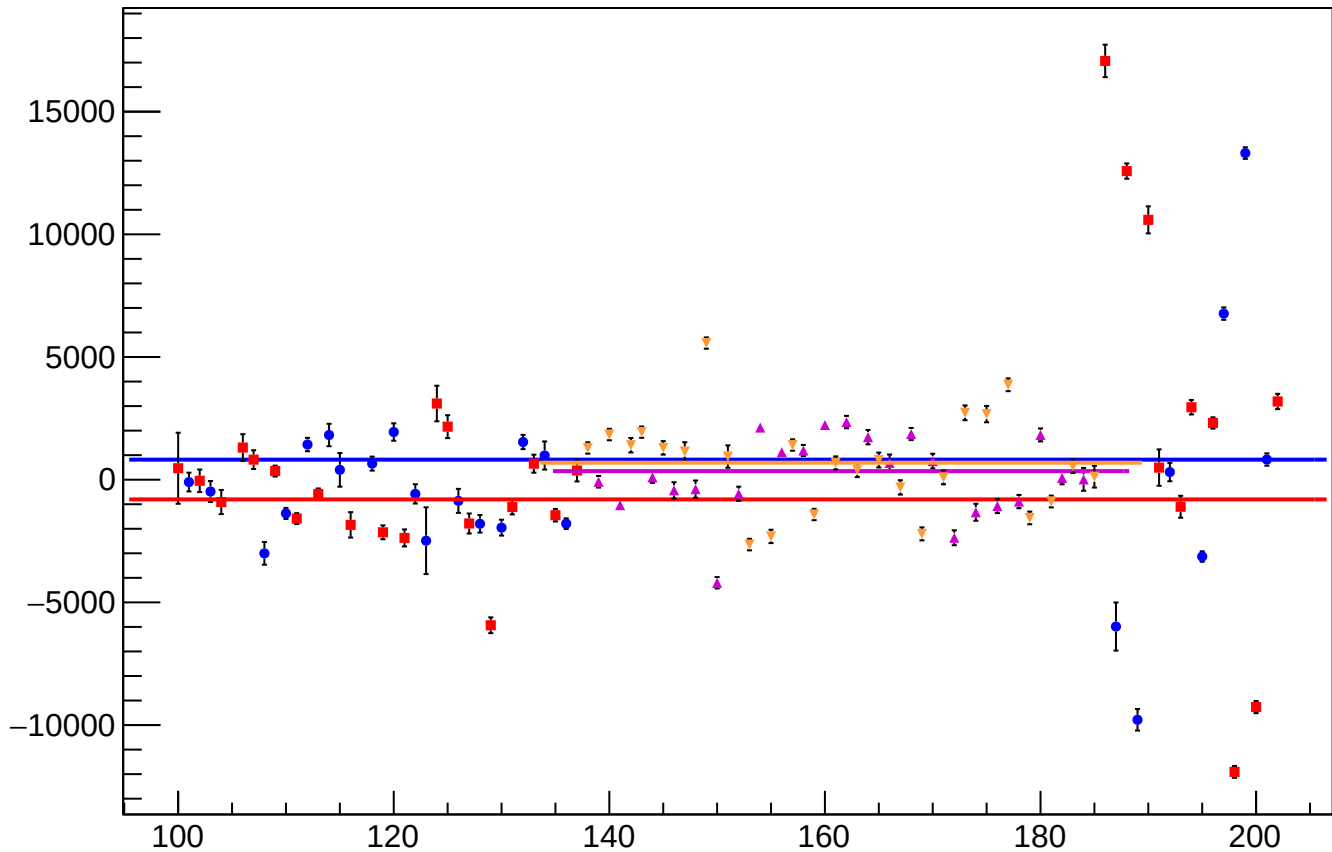
Right: 124.848 $\pm$ 0.019 χ^2 /NDF: 3608755.0/52

In: 139.041 $\pm$ 0.019 χ^2 /NDF:3820228.5/46

Out: 136.768 $\pm$ 0.018 χ^2 /NDF:4120939.2/53

All: 137.824 $\pm$ 0.013 χ^2 /NDF: 7948647.5/100

asym_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: 817.866 $\pm$ 66.433 χ^2 /NDF: 4854.1/23

Left Out: 692.998 $\pm$ 54.303 χ^2 /NDF:1422.0/24

Right Out: -803.315 $\pm$ 61.695 χ^2 /NDF: 7281.7/28

Left In: 349.623 $\pm$ 53.094 χ^2 /NDF:981.0/22

Left: 517.444 $\pm$ 37.963 χ^2 /NDF: 2423.4/47

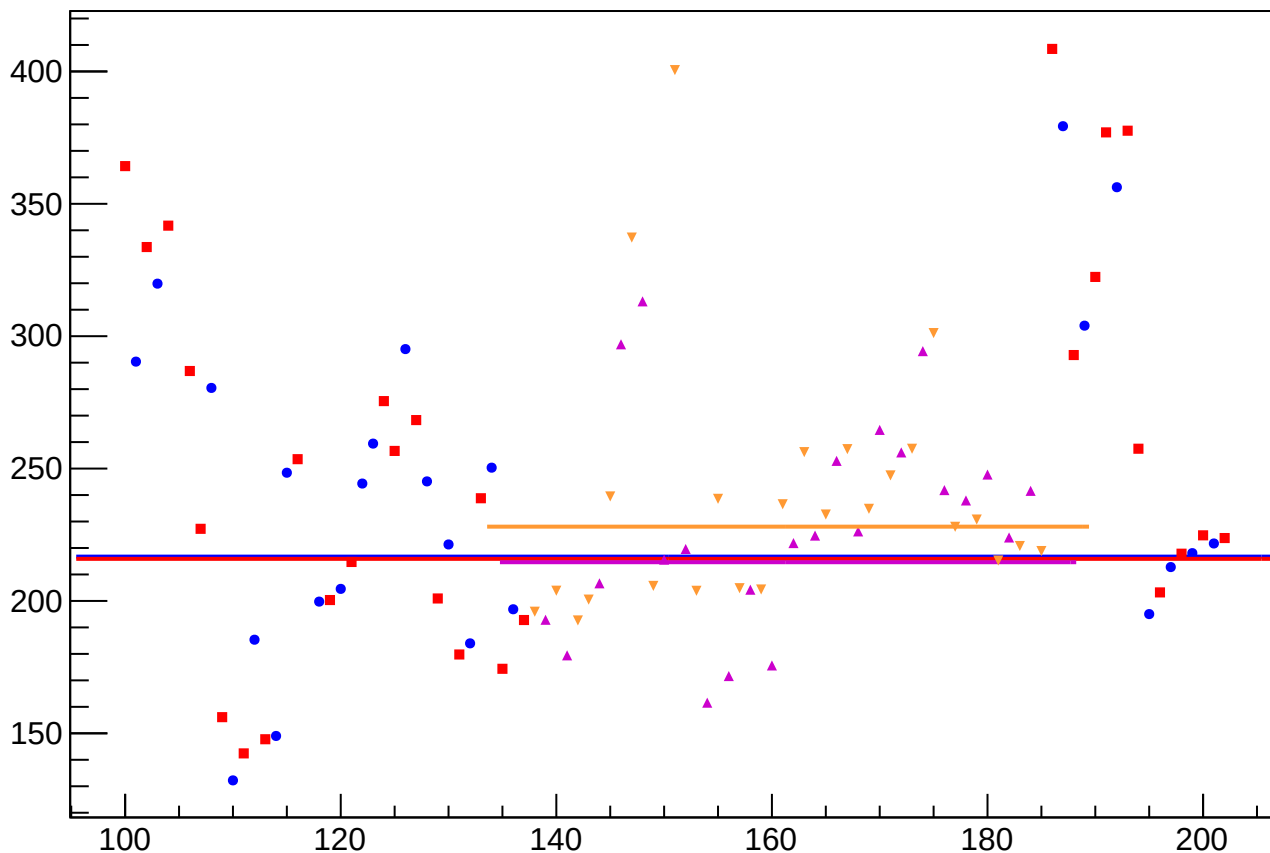
Right: -52.592 $\pm$ 45.207 χ^2 /NDF: 12455.6/52

In: 532.132 $\pm$ 41.475 χ^2 /NDF:5865.4/46

Out: 39.801 $\pm$ 40.762 χ^2 /NDF:9035.2/53

All: 281.699 $\pm$ 29.072 χ^2 /NDF: 14972.2/100

asym_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 216.740 $\pm$ 0.047 χ^2 /NDF: 1149766.0/23

Left Out: 228.061 $\pm$ 0.038 χ^2 /NDF: 826343.8/24

Right Out: 215.902 $\pm$ 0.044 χ^2 /NDF: 1818907.4/28

Left In: 214.627 $\pm$ 0.038 χ^2 /NDF: 1025683.3/22

Left: 221.193 $\pm$ 0.027 χ^2 /NDF: 1914604.4/47

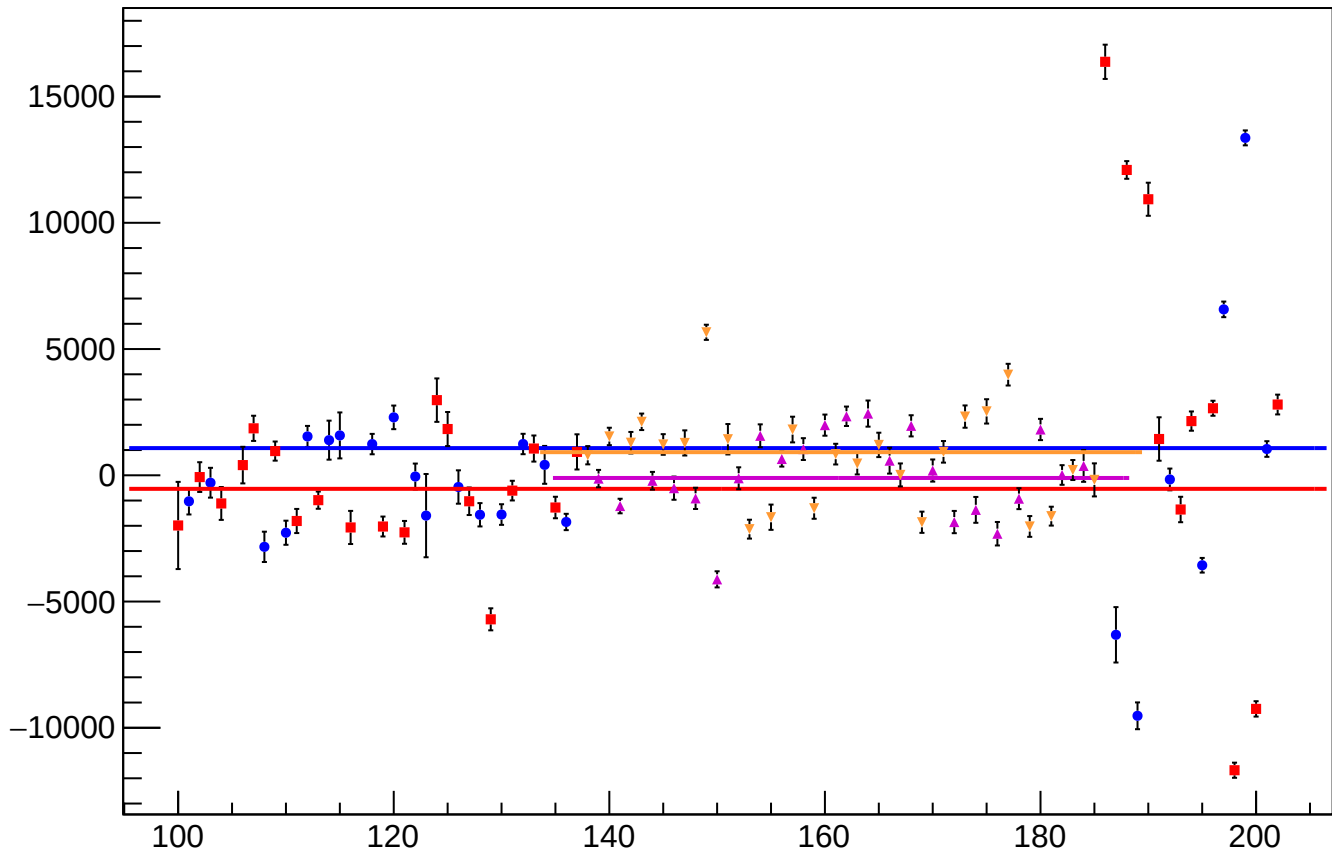
Right: 216.290 $\pm$ 0.032 χ^2 /NDF: 2968844.1/52

In: 215.451 $\pm$ 0.029 χ^2 /NDF: 2176683.8/46

Out: 222.753 $\pm$ 0.029 χ^2 /NDF: 2689019.2/53

All: 219.165 $\pm$ 0.021 χ^2 /NDF: 4897241.9/100

asym_bpm0l02WS_mean vs Slug, Sign Corrected



Right In: 1076.936 $\pm$ 90.680 χ^2 /NDF: 3041.6/23

Left Out: 915.968 $\pm$ 83.398 χ^2 /NDF:618.3/24

Right Out: -536.487 $\pm$ 84.606 χ^2 /NDF: 4945.4/28

Left In: -106.116 $\pm$ 84.393 χ^2 /NDF:390.3/22

Left: 410.985 $\pm$ 59.320 χ^2 /NDF: 1082.8/47

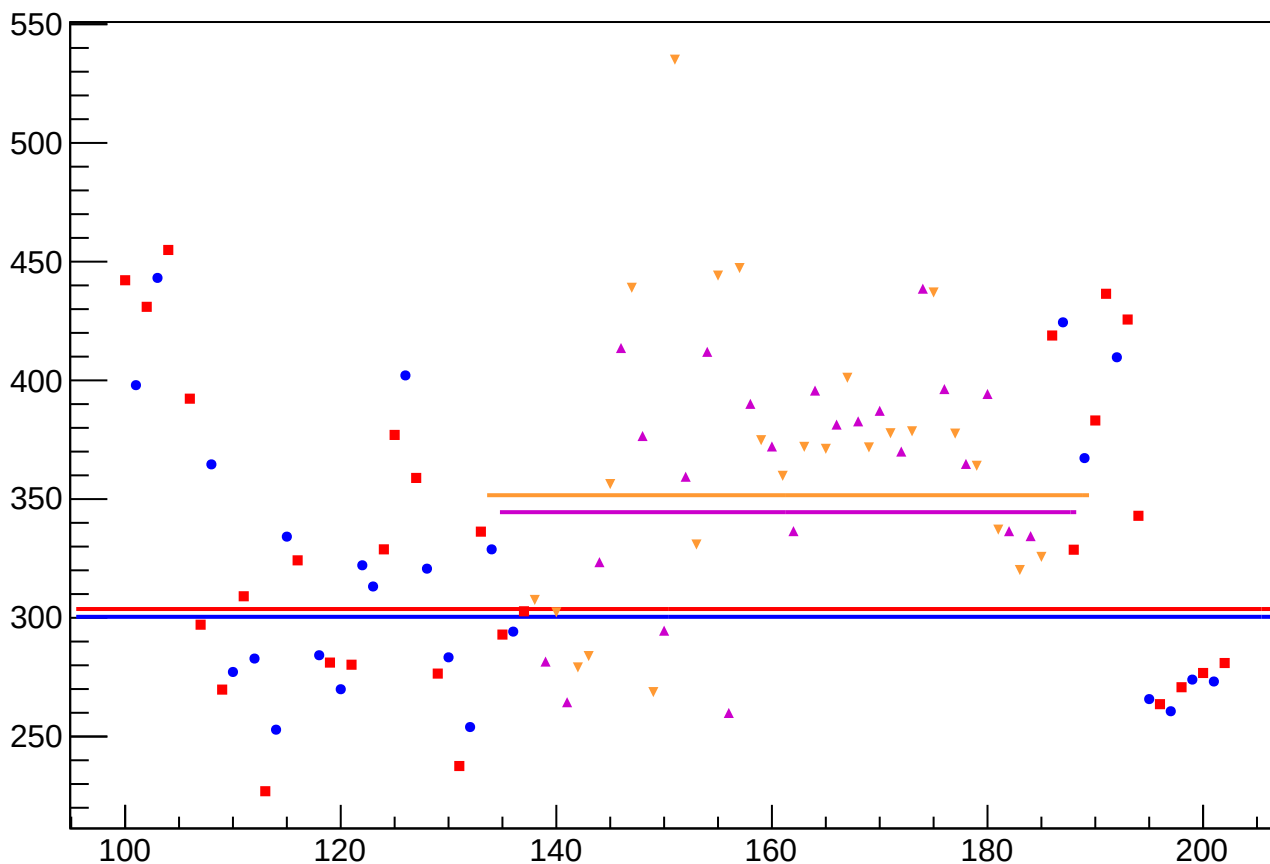
Right: 214.386 $\pm$ 61.862 χ^2 /NDF: 8156.2/52

In: 442.980 $\pm$ 61.778 χ^2 /NDF:3523.1/46

Out: 200.184 $\pm$ 59.394 χ^2 /NDF:5713.1/53

All: 316.807 $\pm$ 42.816 χ^2 /NDF: 9244.2/100

asym_bpm0l02WS_rms vs Slug, Sign Corrected



Right In: 300.418 ± 0.064 χ^2/NDF : 607489.8/23

Left Out: 351.633 ± 0.059 χ^2/NDF : 907849.3/24

Right Out: 303.703 ± 0.060 χ^2/NDF : 862153.1/28

Left In: 344.491 ± 0.060 χ^2/NDF : 768885.4/22

Left: 348.104 ± 0.042 χ^2/NDF : 1683981.7/47

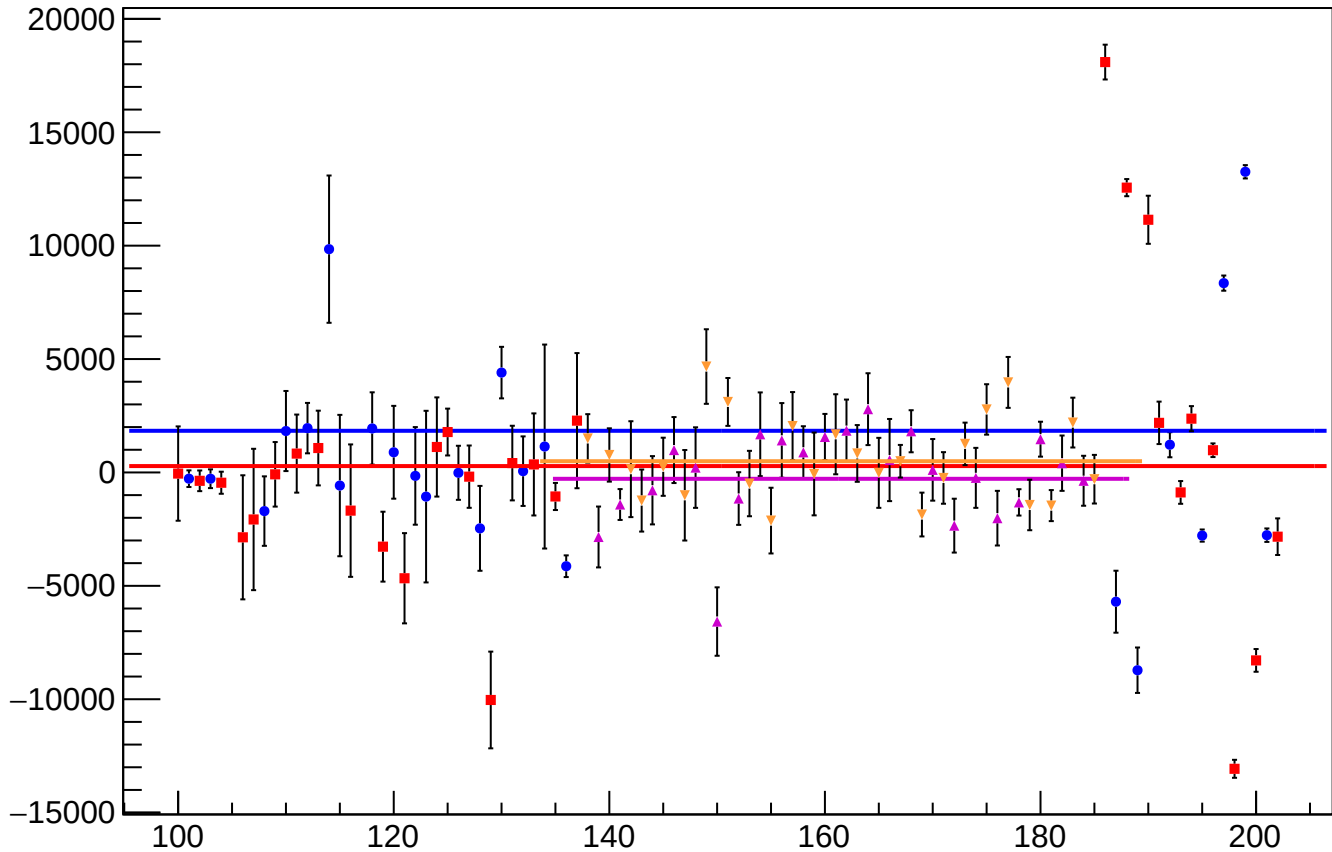
Right: 302.174 ± 0.044 χ^2/NDF : 1471046.7/52

In: 324.035 ± 0.044 χ^2/NDF : 1629544.7/46

Out: 328.013 ± 0.042 χ^2/NDF : 2095541.7/53

All: 326.102 ± 0.030 χ^2/NDF : 3729395.5/100

asym_bpm0l03WS_mean vs Slug, Sign Corrected



Right In: 1836.545 $\pm$ 116.972 χ^2 /NDF: 2809.4/23

Left Out: 495.014 $\pm$ 231.058 χ^2 /NDF: 56.2/24

Right Out: 280.829 $\pm$ 131.621 χ^2 /NDF: 3217.8/28

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

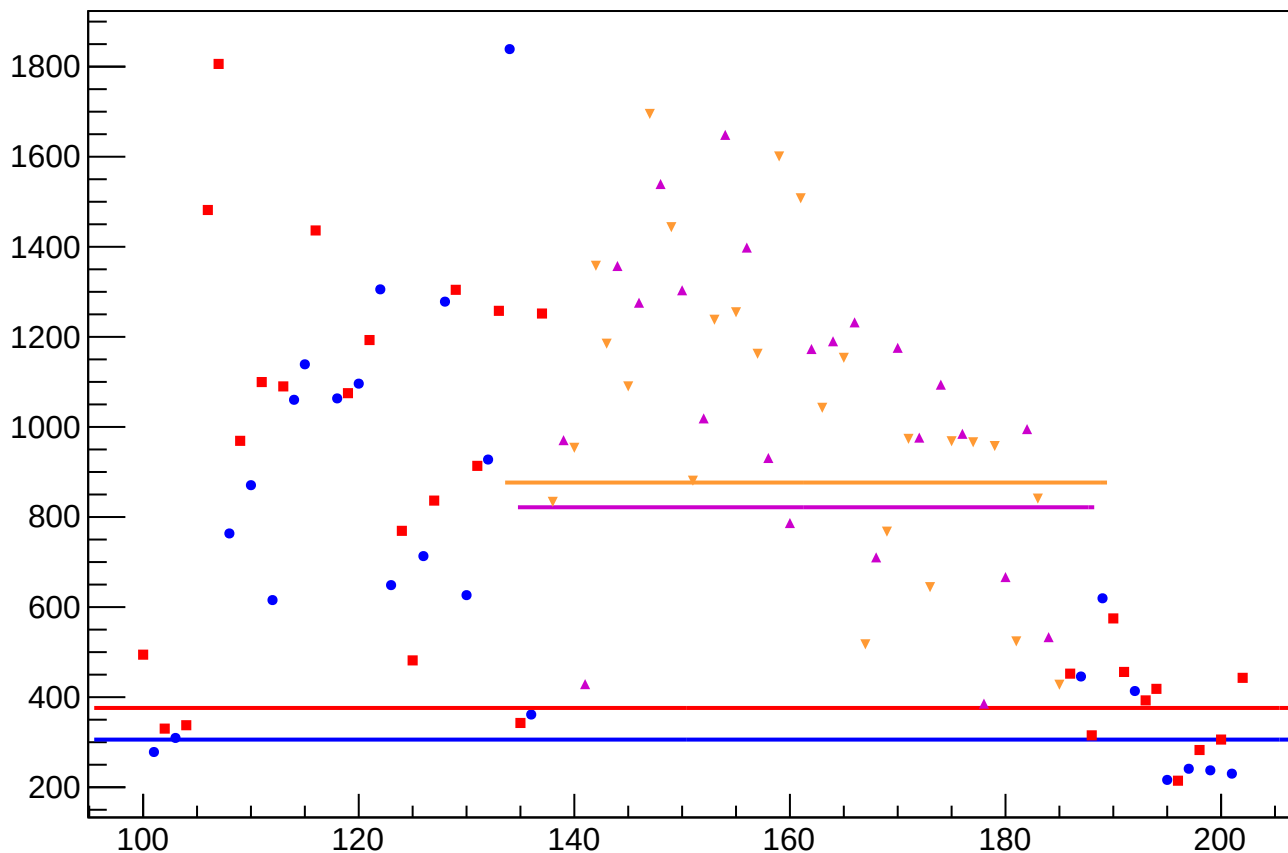
Right: 1150.044 $\pm$ 87.434 χ^2 /NDF: 6105.2/52

In: 1407.558 $\pm$ 104.451 χ^2 /NDF: 2933.0/46

Out: 333.303 $\pm$ 114.367 χ^2 /NDF: 3274.7/53

All: 919.008 $\pm$ 77.126 χ^2 /NDF: 6255.8/100

asym_bpm0l03WS_rms vs Slug, Sign Corrected



Right In: 305.804+/-0.083 χ^2/NDF : 4348823.5/23

Left Out: 876.560+/-0.163 χ^2/NDF :3434698.7/24

Right Out: 376.063+/-0.093 χ^2/NDF : 5173275.6/28

Left In: 821.657+/-0.164 χ^2/NDF :4443094.2/22

Left: 849.226+/-0.116 χ^2/NDF : 7934012.4/47

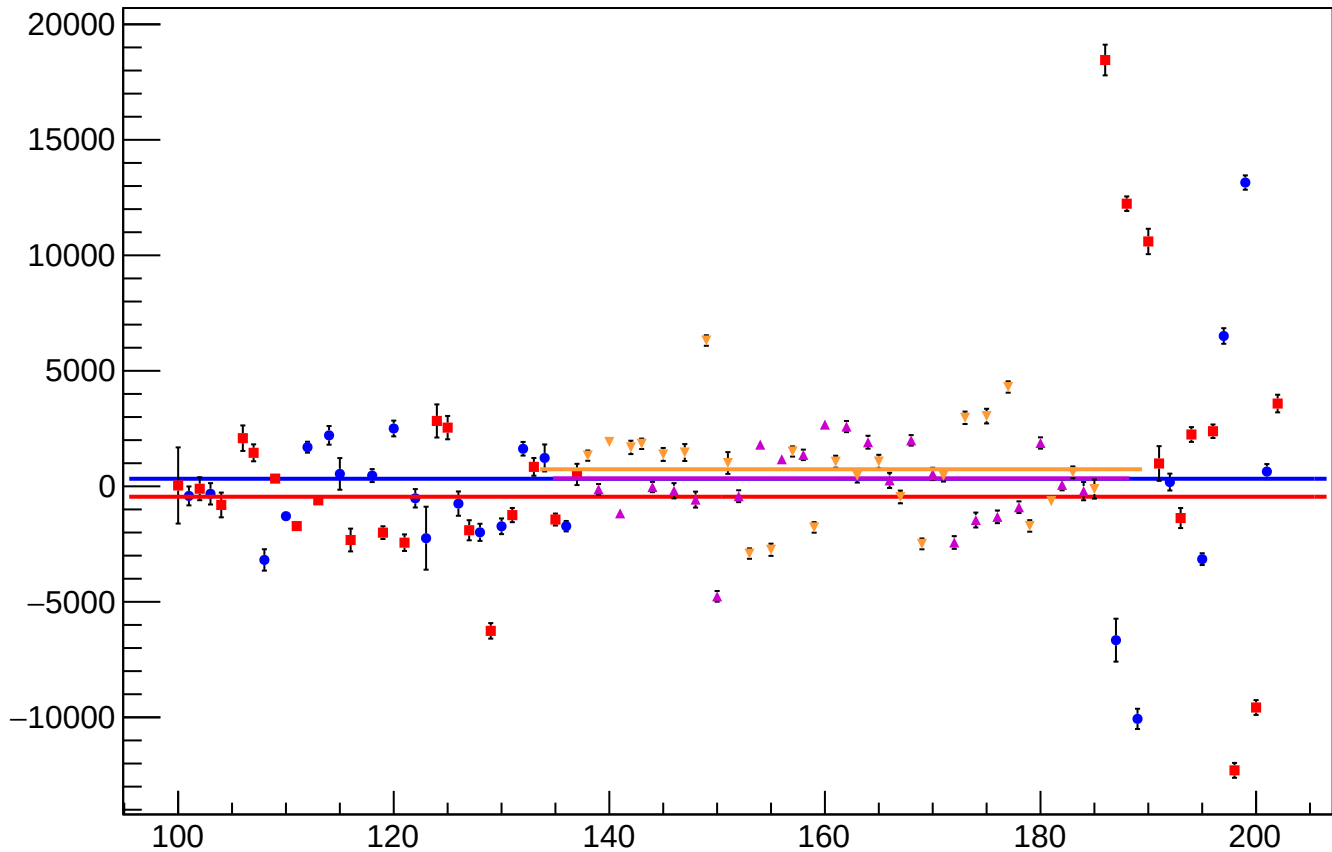
Right: 336.807+/-0.062 χ^2/NDF : 9840511.3/52

In: 410.324+/-0.074 χ^2/NDF :16673195.8/46

Out: 498.682+/-0.081 χ^2/NDF :15692991.4/53

All: 450.507+/-0.055 χ^2/NDF : 33017057.3/10

asym_bpm0l04WS_mean vs Slug, Sign Corrected



Right In: 327.709 ± 69.920 $\chi^2/\text{NDF}: 3262.5/23$

Left Out: 738.847 ± 51.649 $\chi^2/\text{NDF}: 1935.2/24$

Right Out: -450.306 ± 63.553 $\chi^2/\text{NDF}: 5856.7/28$

Left In: 342.465 ± 50.044 $\chi^2/\text{NDF}: 1254.9/22$

Left: 534.403 ± 35.941 $\chi^2/\text{NDF}: 3220.5/47$

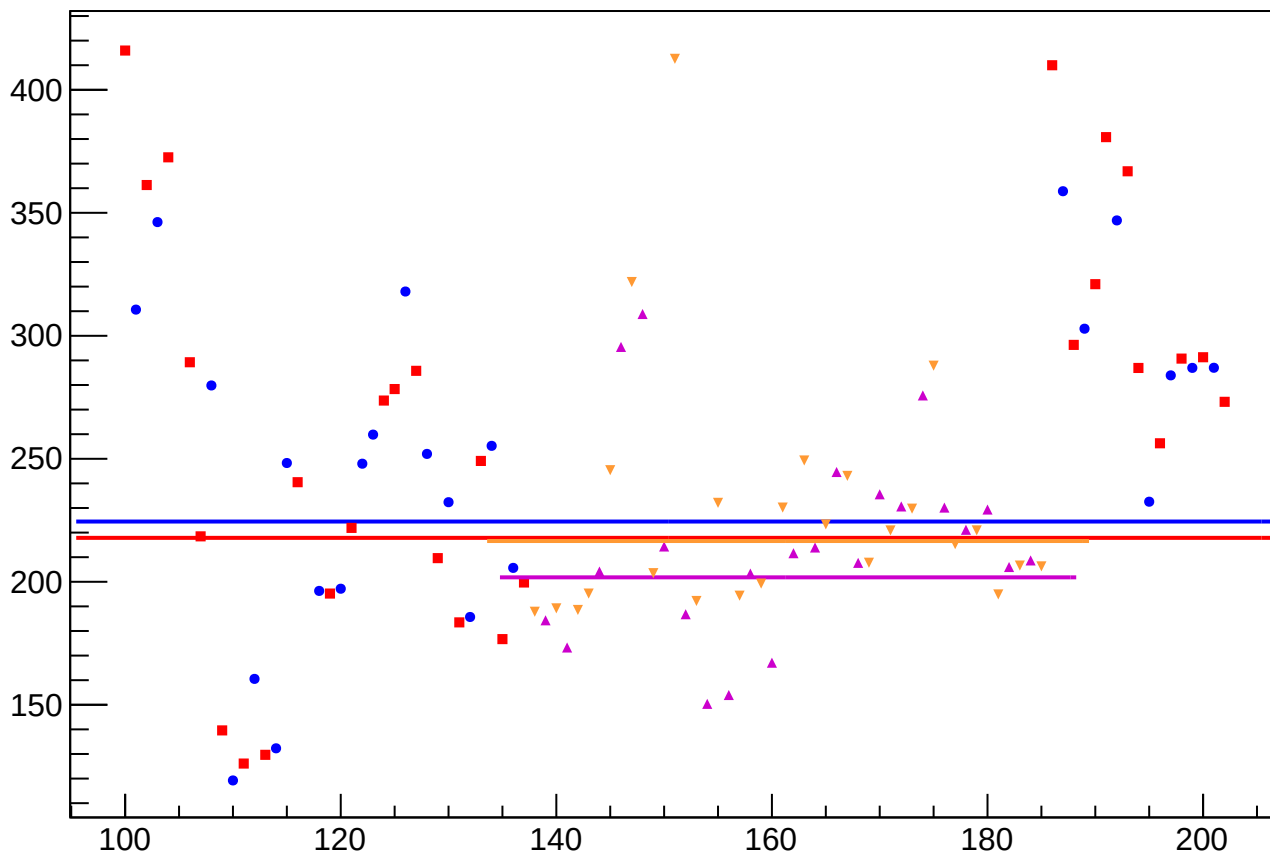
Right: -98.328 ± 47.029 $\chi^2/\text{NDF}: 9187.0/52$

In: 337.466 ± 40.695 $\chi^2/\text{NDF}: 4517.4/46$

Out: 265.849 ± 40.082 $\chi^2/\text{NDF}: 8002.7/53$

All: 301.114 ± 28.556 $\chi^2/\text{NDF}: 12521.7/100$

asym_bpm0l04WS_rms vs Slug, Sign Corrected



Right In: 224.497 $\pm$ 0.049 χ^2/NDF : 1755894.4/23

Left Out: 216.574 $\pm$ 0.037 χ^2/NDF :886214.1/24

Right Out: 217.862 $\pm$ 0.045 χ^2/NDF : 2803322.9/28

Left In: 201.805 $\pm$ 0.035 χ^2/NDF :1087243.4/22

Left: 208.957 $\pm$ 0.025 χ^2/NDF : 2057801.5/47

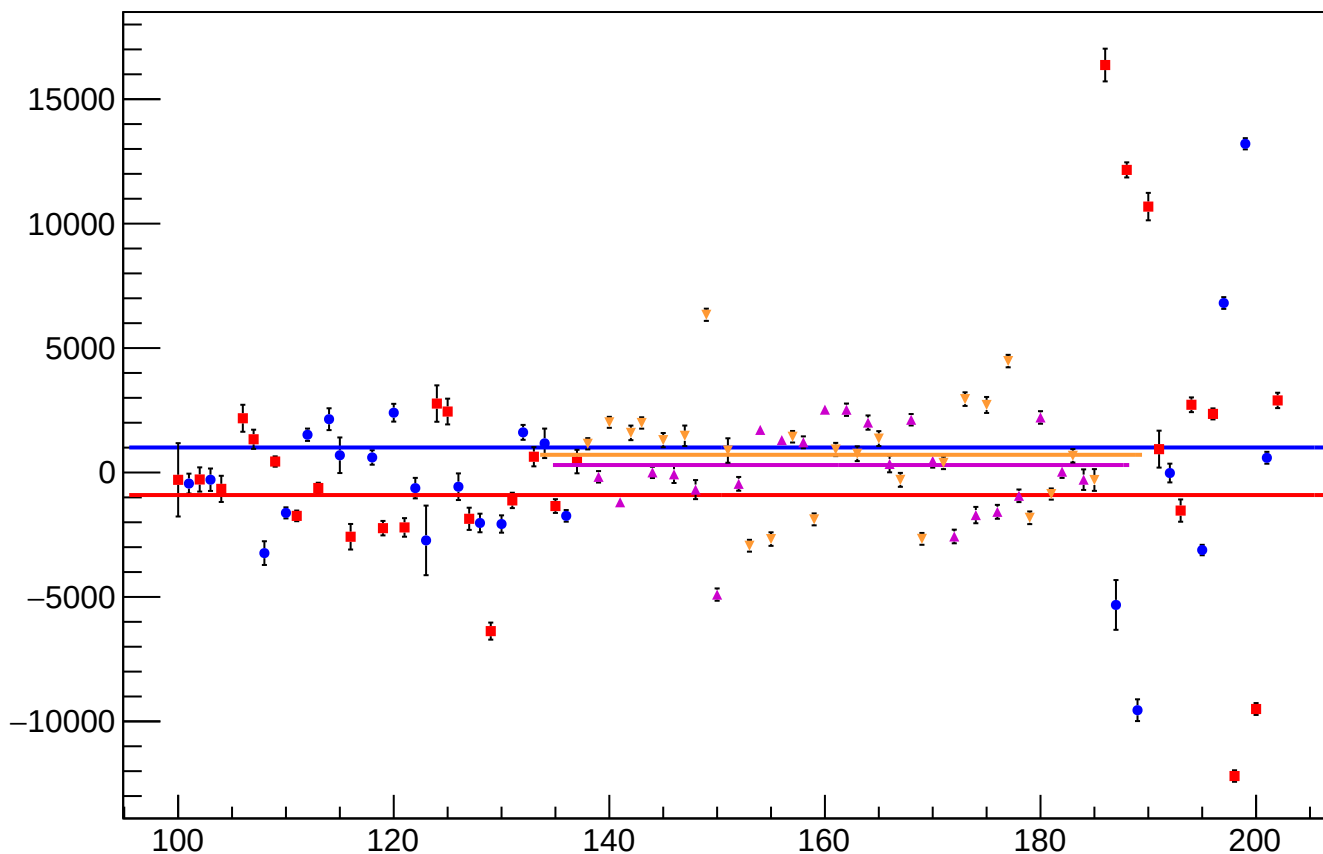
Right: 220.863 $\pm$ 0.033 χ^2/NDF : 4569078.4/52

In: 209.492 $\pm$ 0.029 χ^2/NDF :2982423.6/46

Out: 217.086 $\pm$ 0.028 χ^2/NDF :3690031.5/53

All: 213.347 $\pm$ 0.020 χ^2/NDF : 6707810.3/100

asym_bpm0l05WS_mean vs Slug, Sign Corrected



Right In: 1005.532 ± 66.297 $\chi^2/\text{NDF}: 5134.9/23$

Left Out: 711.174 ± 53.245 $\chi^2/\text{NDF}: 1835.3/24$

Right Out: -905.670 ± 61.488 $\chi^2/\text{NDF}: 7713.3/28$

Left In: 300.516 ± 51.984 $\chi^2/\text{NDF}: 1208.6/22$

Left: 500.925 ± 37.196 $\chi^2/\text{NDF}: 3074.4/47$

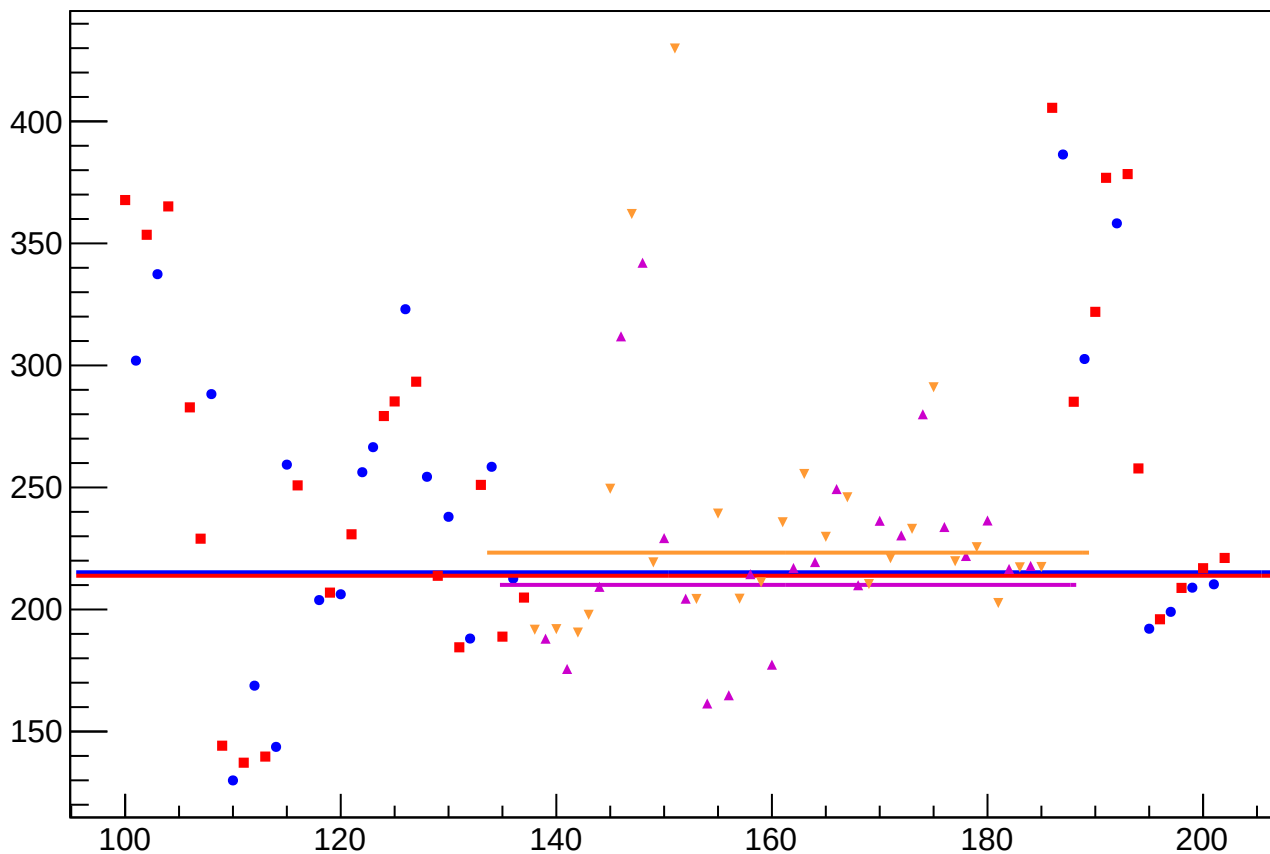
Right: -21.896 ± 45.083 $\chi^2/\text{NDF}: 13295.0/52$

In: 568.941 ± 40.908 $\chi^2/\text{NDF}: 6413.5/46$

Out: 18.318 ± 40.251 $\chi^2/\text{NDF}: 9943.8/53$

All: 289.174 ± 28.691 $\chi^2/\text{NDF}: 16449.4/100$

asym_bpm0l05WS_rms vs Slug, Sign Corrected



Right In: 215.250+/-0.047 χ^2/NDF : 1341069.1/23

Left Out: 223.296+/-0.038 χ^2/NDF :922768.4/24

Right Out: 213.824+/-0.043 χ^2/NDF : 2085794.2/28

Left In: 210.080+/-0.037 χ^2/NDF :1015274.5/22

Left: 216.530+/-0.026 χ^2/NDF : 2001132.1/47

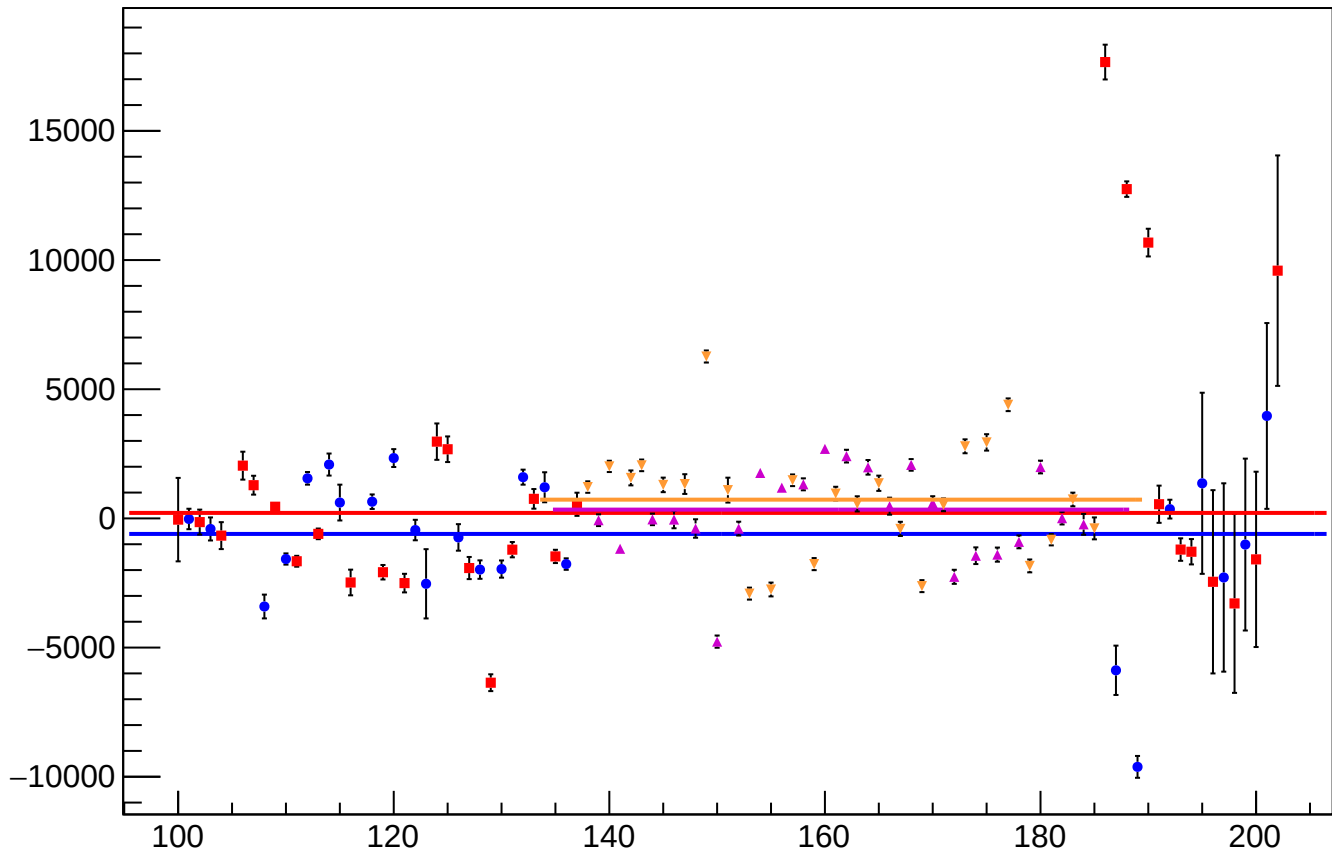
Right: 214.484+/-0.032 χ^2/NDF : 3427360.7/52

In: 212.048+/-0.029 χ^2/NDF :2363876.2/46

Out: 219.237+/-0.028 χ^2/NDF :3035686.1/53

All: 215.701+/-0.020 χ^2/NDF : 5430944.1/100

asym_bpm0l06WS_mean vs Slug, Sign Corrected



Right In: -601.223+/-79.119 χ^2/NDF : 893.7/23

Left Out: 725.866+/-52.158 χ^2/NDF :1912.7/24

Right Out: 212.552+/-70.008 χ^2/NDF : 3637.9/28

Left In: 340.502+/-50.802 χ^2/NDF :1201.8/22

Left: 528.110+/-36.393 χ^2/NDF : 3142.6/47

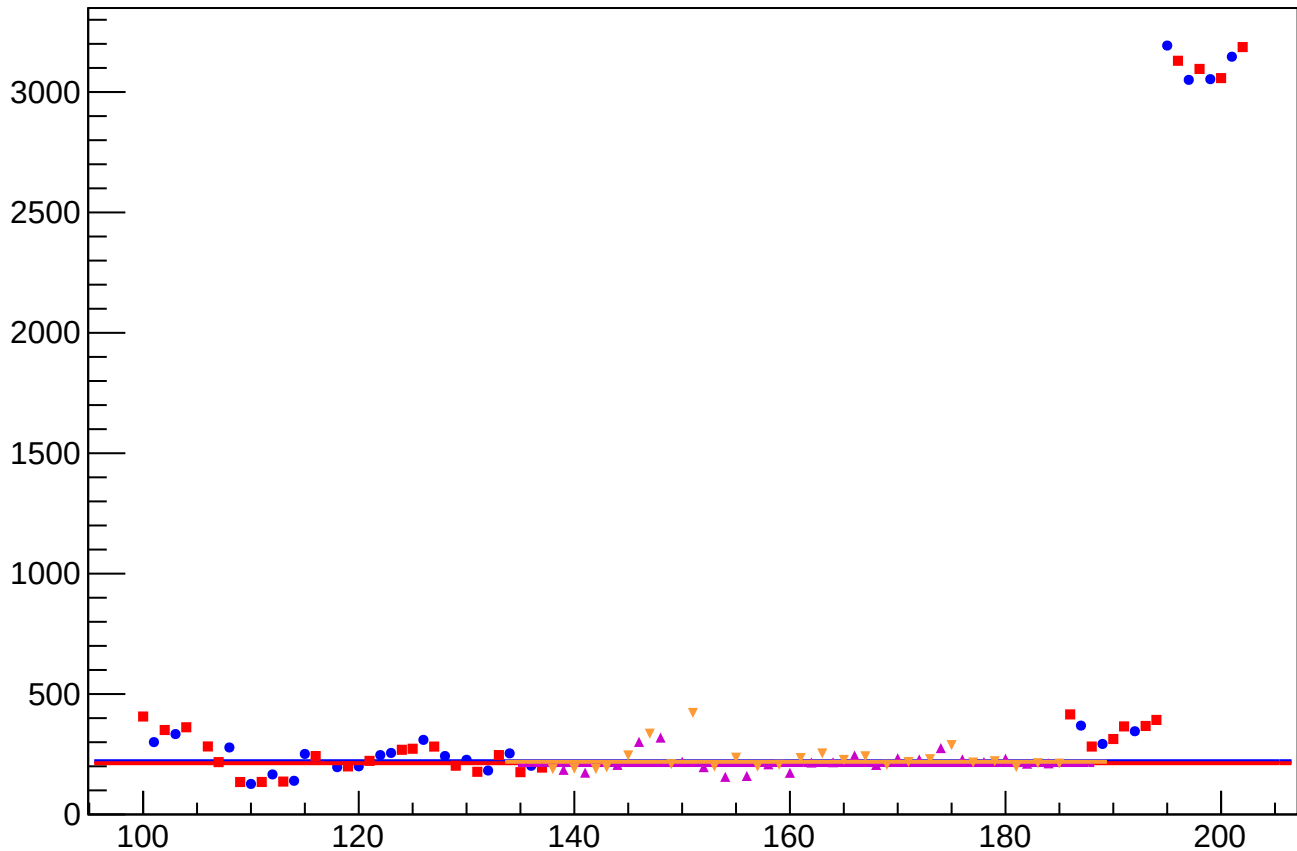
Right: -144.805+/-52.430 χ^2/NDF : 4591.0/52

In: 65.581+/-42.749 χ^2/NDF :2195.9/46

Out: 542.642+/-41.826 χ^2/NDF :5585.2/53

All: 309.313+/-29.896 χ^2/NDF : 7844.7/100

asym_bpm0l06WS_rms vs Slug, Sign Corrected



Right In: 221.038+/-0.056 χ^2/NDF : 6704640.8/23

Left Out: 218.768+/-0.037 χ^2/NDF : 896914.5/24

Right Out: 212.830+/-0.050 χ^2/NDF : 7460283.4/28

Left In: 205.249+/-0.036 χ^2/NDF : 997168.8/22

Left: 211.831+/-0.026 χ^2/NDF : 1963037.5/47

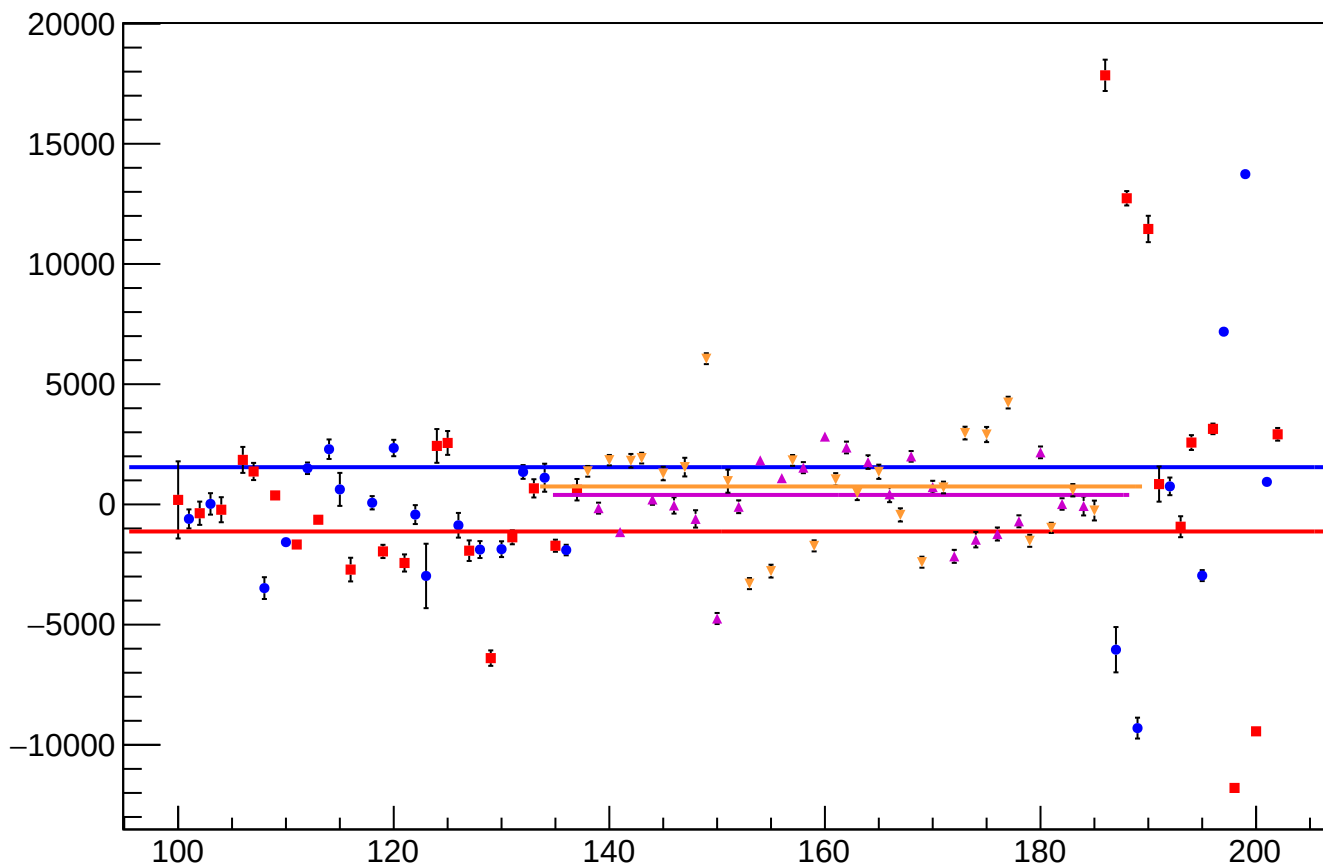
Right: 216.434+/-0.037 χ^2/NDF : 14176997.2/52

In: 209.858+/-0.030 χ^2/NDF : 7758205.0/46

Out: 216.649+/-0.030 χ^2/NDF : 8366452.9/53

All: 213.327+/-0.021 χ^2/NDF : 16150439.8/100

asym_bpm0l07WS_mean vs Slug, Sign Corrected



Right In: 1548.843 $\pm$ 62.458 χ^2 /NDF: 6764.7/23

Left Out: 746.405 $\pm$ 51.592 χ^2 /NDF:1942.1/24

Right Out: -1125.621 $\pm$ 57.663 χ^2 /NDF: 9272.1/28

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

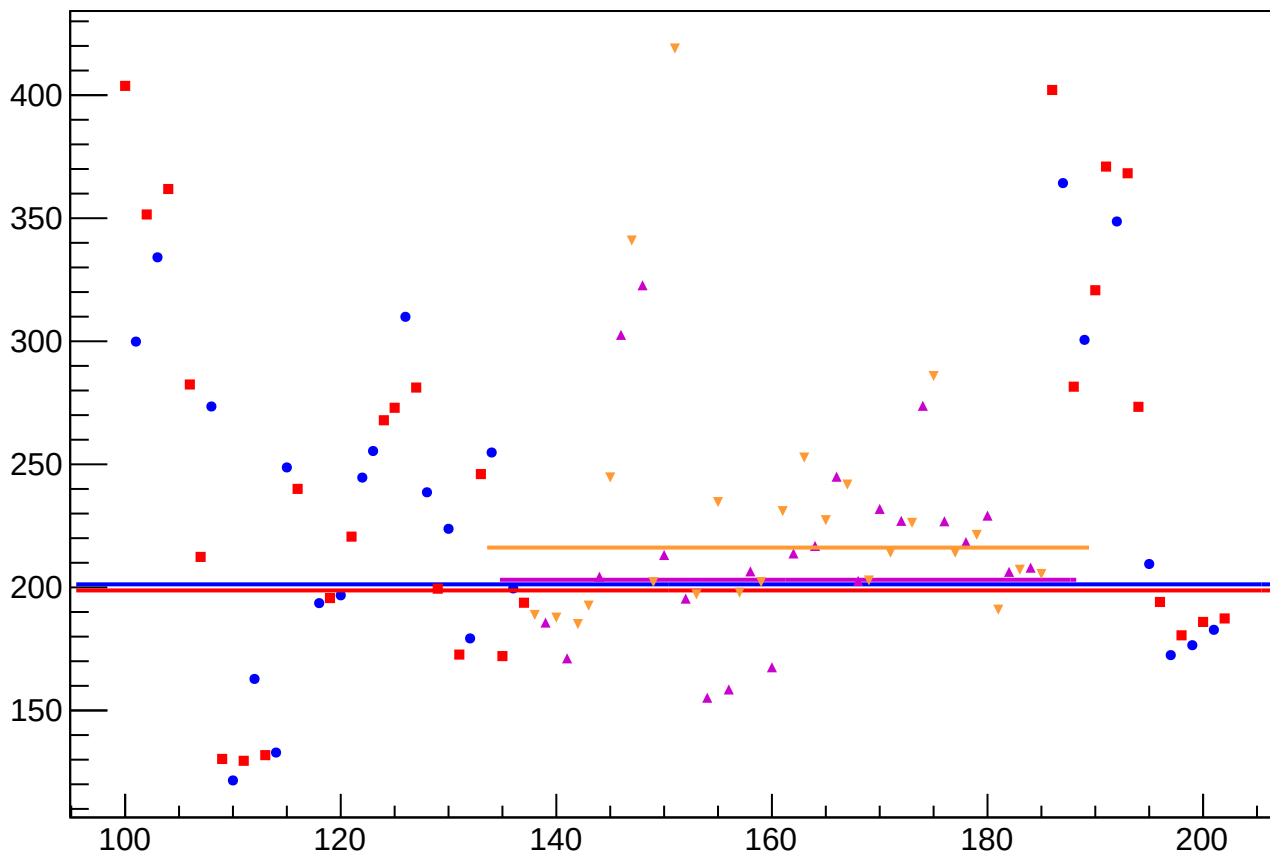
Right: 105.031 $\pm$ 42.368 χ^2 /NDF: 17026.6/52

In: 848.685 $\pm$ 39.181 χ^2 /NDF:8208.3/46

Out: -85.891 $\pm$ 38.449 χ^2 /NDF:11799.5/53

All: 372.587 $\pm$ 27.443 χ^2 /NDF: 20297.7/100

asym_bpm0l07WS_rms vs Slug, Sign Corrected



Right In: 201.242 ± 0.044 χ^2/NDF : 1518315.5/23

Left Out: 216.178 ± 0.036 χ^2/NDF : 946050.8/24

Right Out: 198.768 ± 0.041 χ^2/NDF : 2436569.2/28

Left In: 203.101 ± 0.036 χ^2/NDF : 1038013.0/22

Left: 209.475 ± 0.025 χ^2/NDF : 2049926.5/47

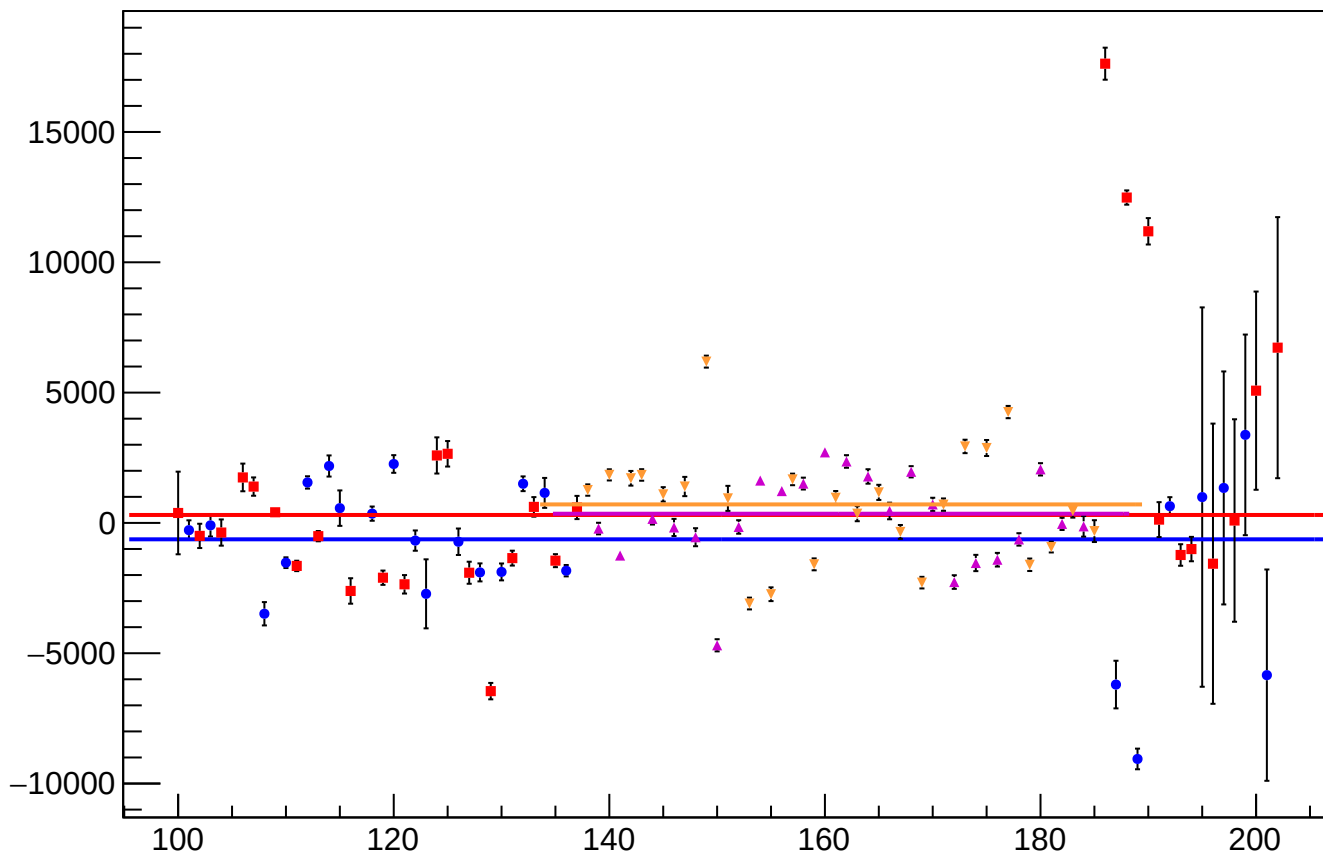
Right: 199.907 ± 0.030 χ^2/NDF : 3956579.1/52

In: 202.369 ± 0.028 χ^2/NDF : 2557402.5/46

Out: 208.438 ± 0.027 χ^2/NDF : 3483876.9/53

All: 205.461 ± 0.019 χ^2/NDF : 6065717.8/100

asym_bpm0l08WS_mean vs Slug, Sign Corrected



Right In: -629.414 ± 76.476 $\chi^2/\text{NDF}: 917.7/23$

Left Out: 710.238 ± 50.750 $\chi^2/\text{NDF}: 1932.3/24$

Right Out: 305.048 ± 67.141 $\chi^2/\text{NDF}: 4164.5/28$

Left In: 352.432 ± 49.316 $\chi^2/\text{NDF}: 1233.1/22$

Left: 526.207 ± 35.368 $\chi^2/\text{NDF}: 3190.9/47$

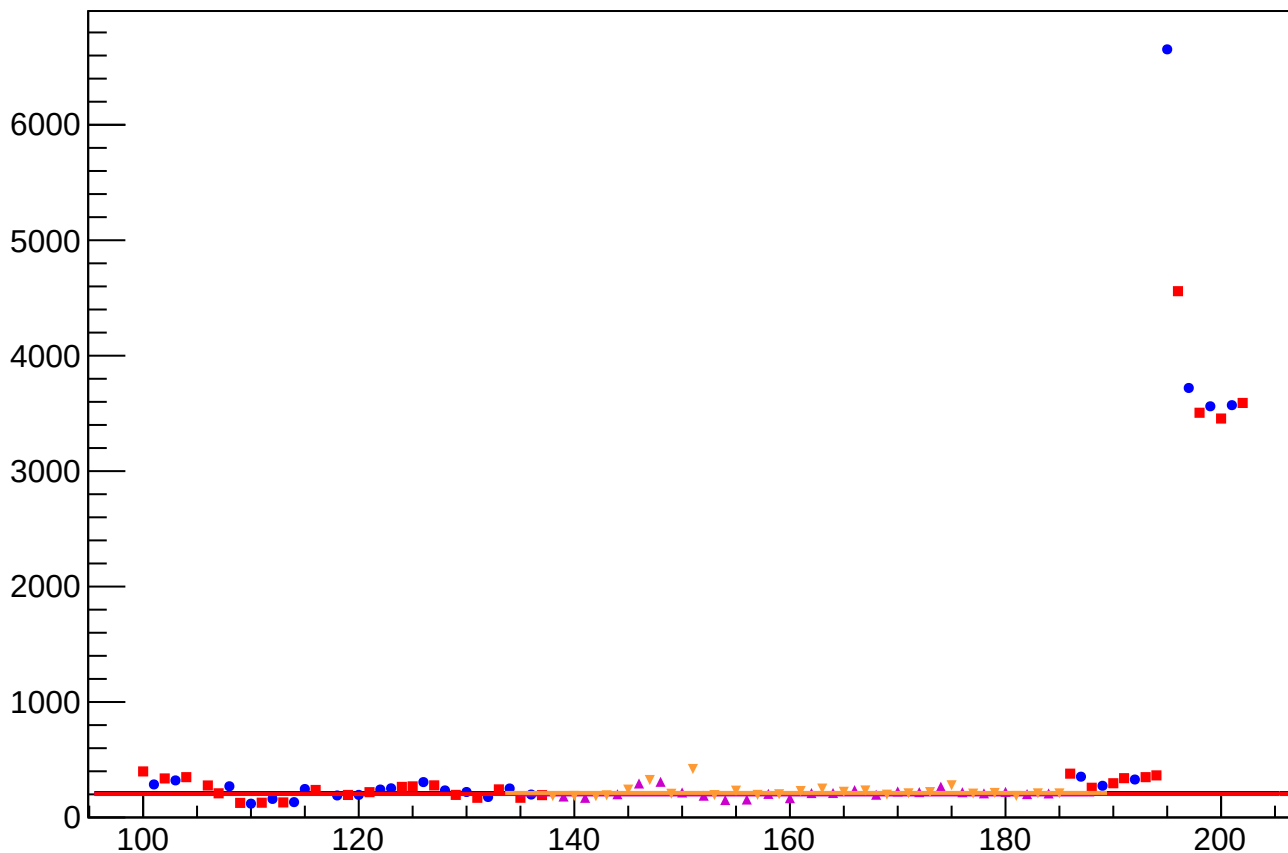
Right: -101.701 ± 50.455 $\chi^2/\text{NDF}: 5166.5/52$

In: 64.057 ± 41.446 $\chi^2/\text{NDF}: 2267.1/46$

Out: 562.909 ± 40.486 $\chi^2/\text{NDF}: 6120.0/53$

All: 319.327 ± 28.961 $\chi^2/\text{NDF}: 8461.3/100$

asym_bpm0l08WS_rms vs Slug, Sign Corrected



Right In: 211.852+/-0.054 χ^2/NDF : 6989490.7/23

Left Out: 212.718+/-0.036 χ^2/NDF : 916225.9/24

Right Out: 202.776+/-0.047 χ^2/NDF : 7551471.7/28

Left In: 199.142+/-0.035 χ^2/NDF : 985932.4/22

Left: 205.736+/-0.025 χ^2/NDF : 1975772.3/47

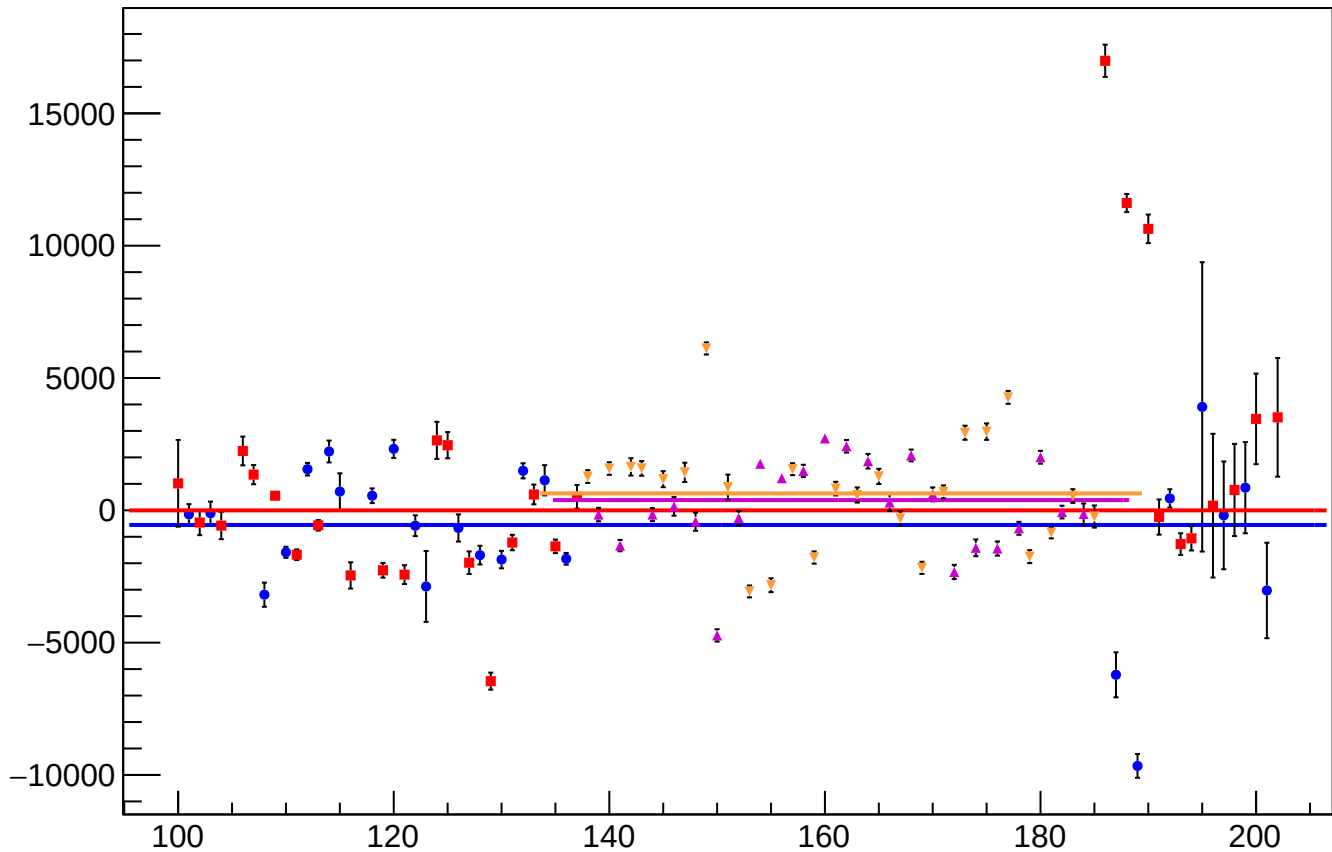
Right: 206.726+/-0.036 χ^2/NDF : 14556870.8/52

In: 202.875+/-0.029 χ^2/NDF : 8014438.9/46

Out: 209.103+/-0.029 χ^2/NDF : 8495610.3/53

All: 206.062+/-0.020 χ^2/NDF : 16533160.1/100

asym_bpm0l09WS_mean vs Slug, Sign Corrected



Right In: -553.665 ± 77.658 χ^2/NDF : 862.2/23

Left Out: 639.995 ± 52.708 χ^2/NDF : 1859.2/24

Right Out: -2.376 ± 68.942 χ^2/NDF : 3102.7/28

Left In: 386.248 ± 50.994 χ^2/NDF : 1238.0/22

Left: 508.926 ± 36.649 χ^2/NDF : 3109.2/47

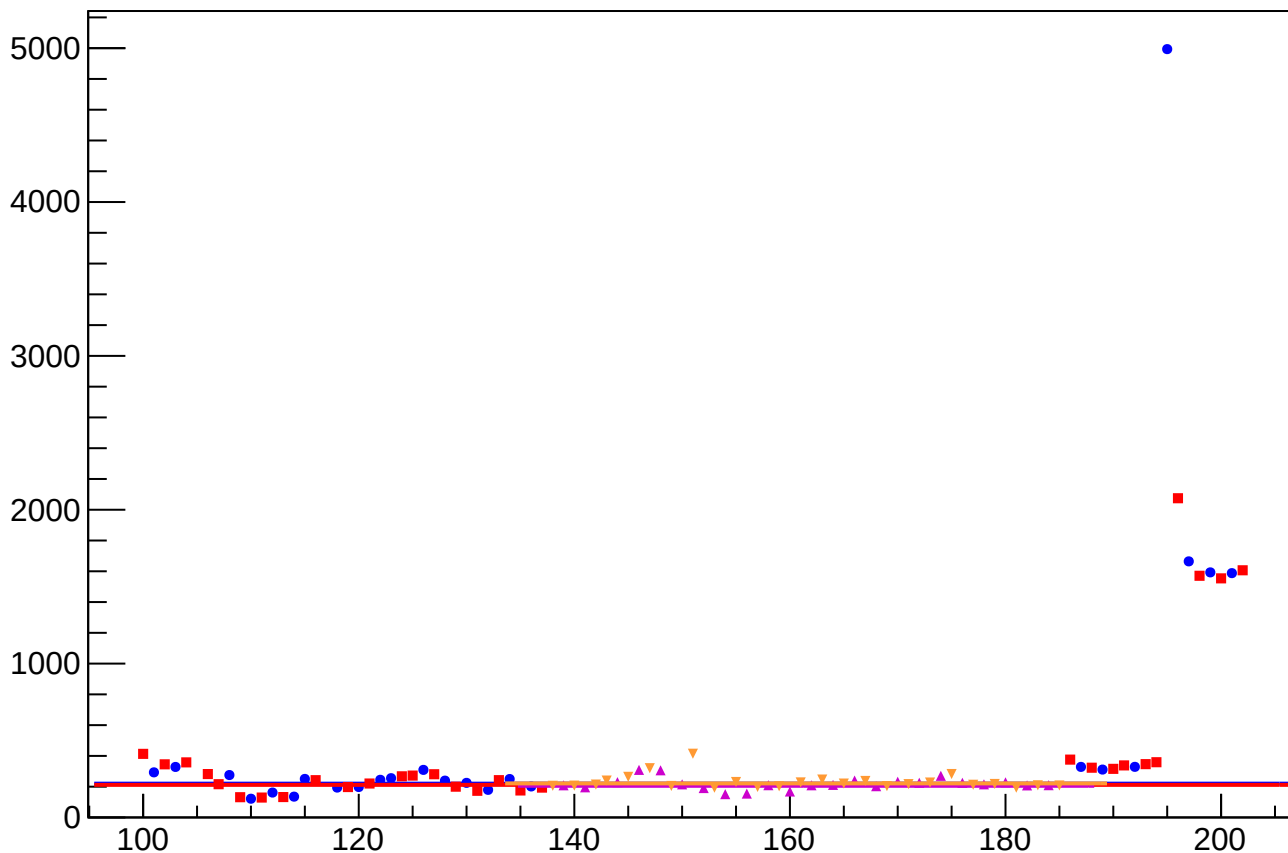
Right: -245.358 ± 51.557 χ^2/NDF : 3993.1/52

In: 103.075 ± 42.625 χ^2/NDF : 2202.6/46

Out: 403.030 ± 41.873 χ^2/NDF : 5016.7/53

All: 255.724 ± 29.871 χ^2/NDF : 7244.5/100

asym_bpm0l09WS_rms vs Slug, Sign Corrected



Right In: 219.625+/-0.055 χ^2/NDF : 6298088.7/23

Left Out: 221.398+/-0.037 χ^2/NDF : 777833.8/24

Right Out: 211.859+/-0.049 χ^2/NDF : 6675493.8/28

Left In: 205.803+/-0.036 χ^2/NDF : 994903.5/22

Left: 213.343+/-0.026 χ^2/NDF : 1863169.5/47

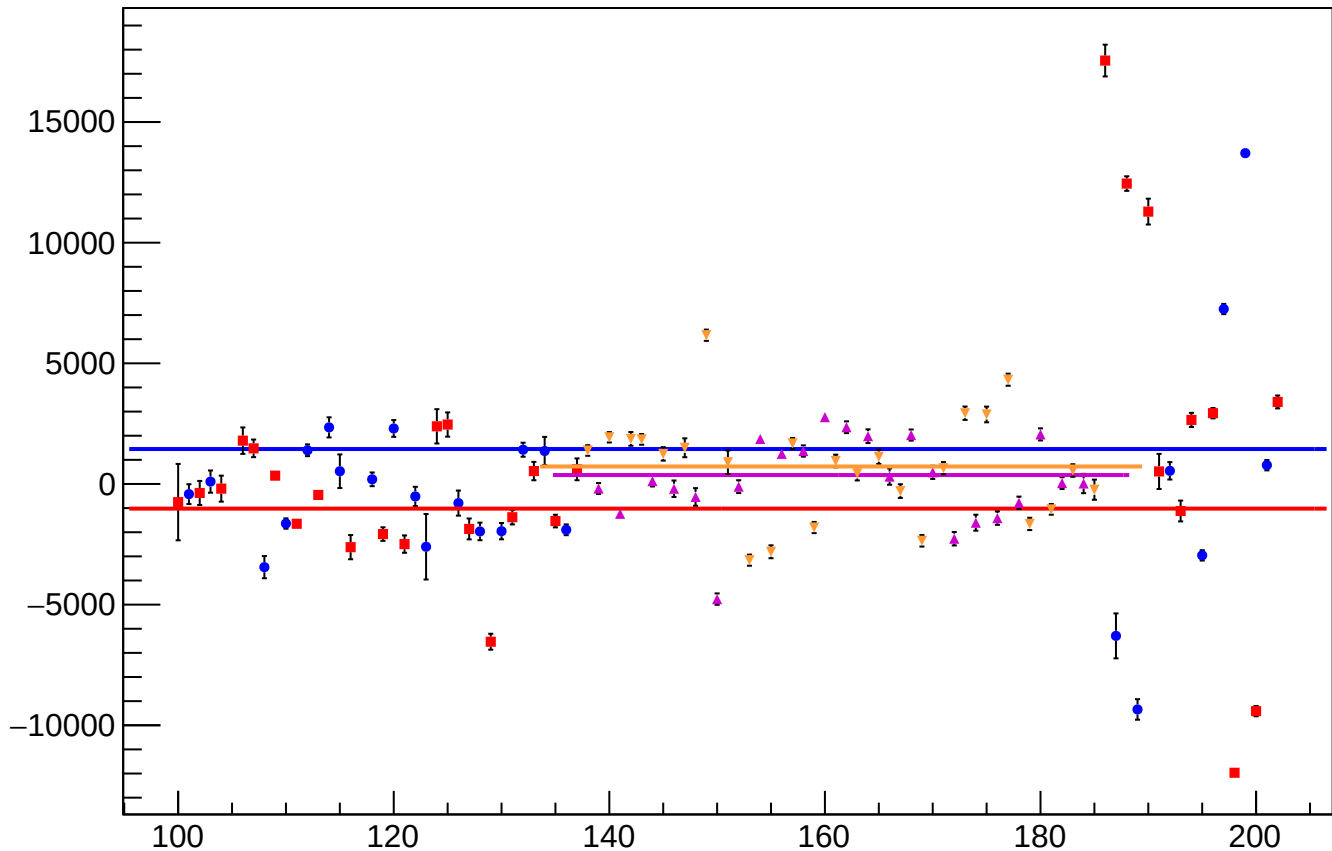
Right: 215.282+/-0.036 χ^2/NDF : 12984768.7/52

In: 209.967+/-0.030 χ^2/NDF : 7337259.7/46

Out: 217.879+/-0.030 χ^2/NDF : 7477493.4/53

All: 213.994+/-0.021 χ^2/NDF : 14849817.2/100

asym_bpm0l10WS_mean vs Slug, Sign Corrected



Right In: 1447.957+/-63.305 χ^2/NDF : 6608.2/23

Left Out: 725.250+/-52.307 χ^2/NDF :1883.1/24

Right Out: -1021.357+/-58.666 χ^2/NDF : 8955.8/28

Left In: 370.408+/-50.884 χ^2/NDF :1223.2/22

Left: 542.938+/-36.473 χ^2/NDF : 3129.9/47

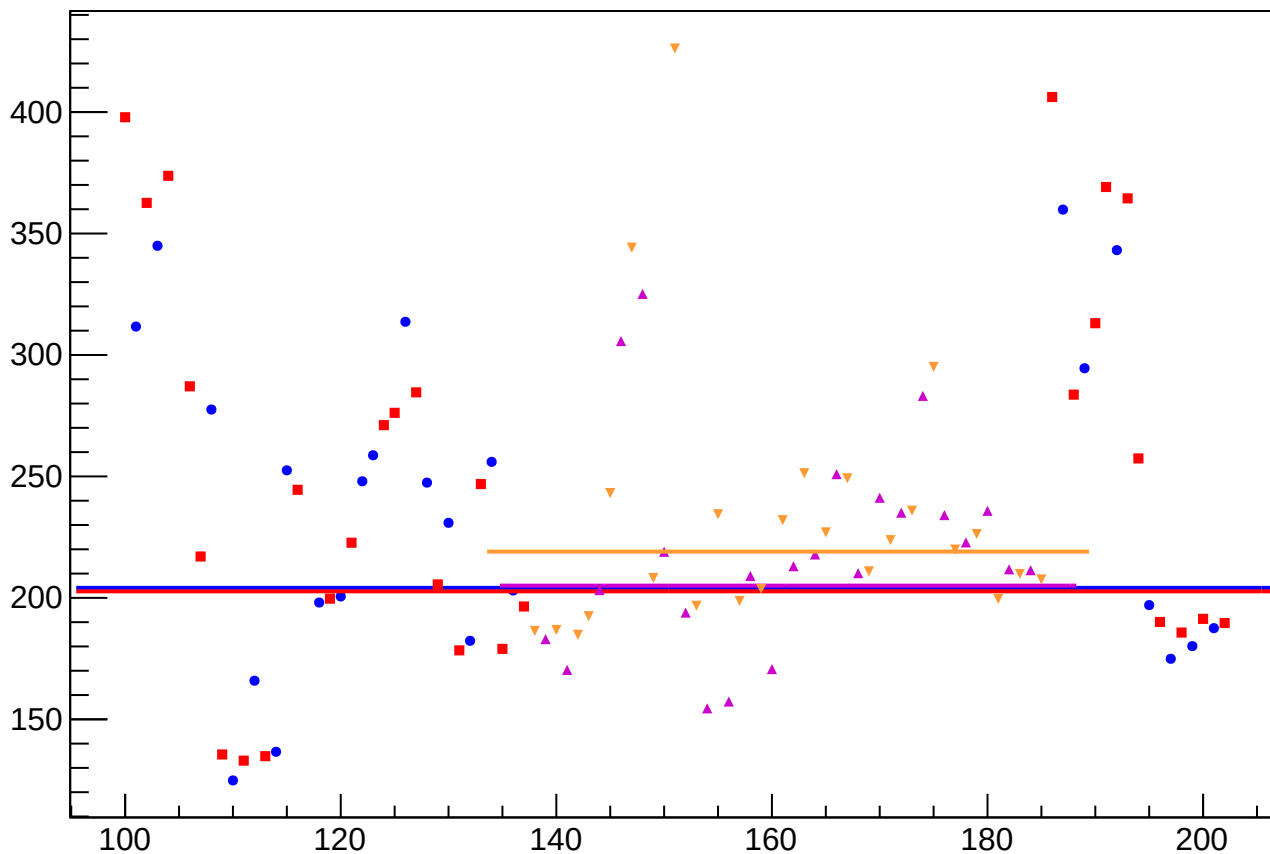
Right: 119.511+/-43.030 χ^2/NDF : 16382.5/52

In: 793.346+/-39.661 χ^2/NDF :8007.3/46

Out: -48.303+/-39.042 χ^2/NDF :11332.8/53

All: 365.907+/-27.823 χ^2/NDF : 19568.8/100

asym_bpm0l10WS_rms vs Slug, Sign Corrected



Right In: 204.114+/-0.045 χ^2/NDF : 1469349.6/23

Left Out: 219.049+/-0.037 χ^2/NDF : 975564.4/24

Right Out: 202.687+/-0.041 χ^2/NDF : 2286963.9/28

Left In: 205.046+/-0.036 χ^2/NDF : 1144197.1/22

Left: 211.855+/-0.026 χ^2/NDF : 2193394.9/47

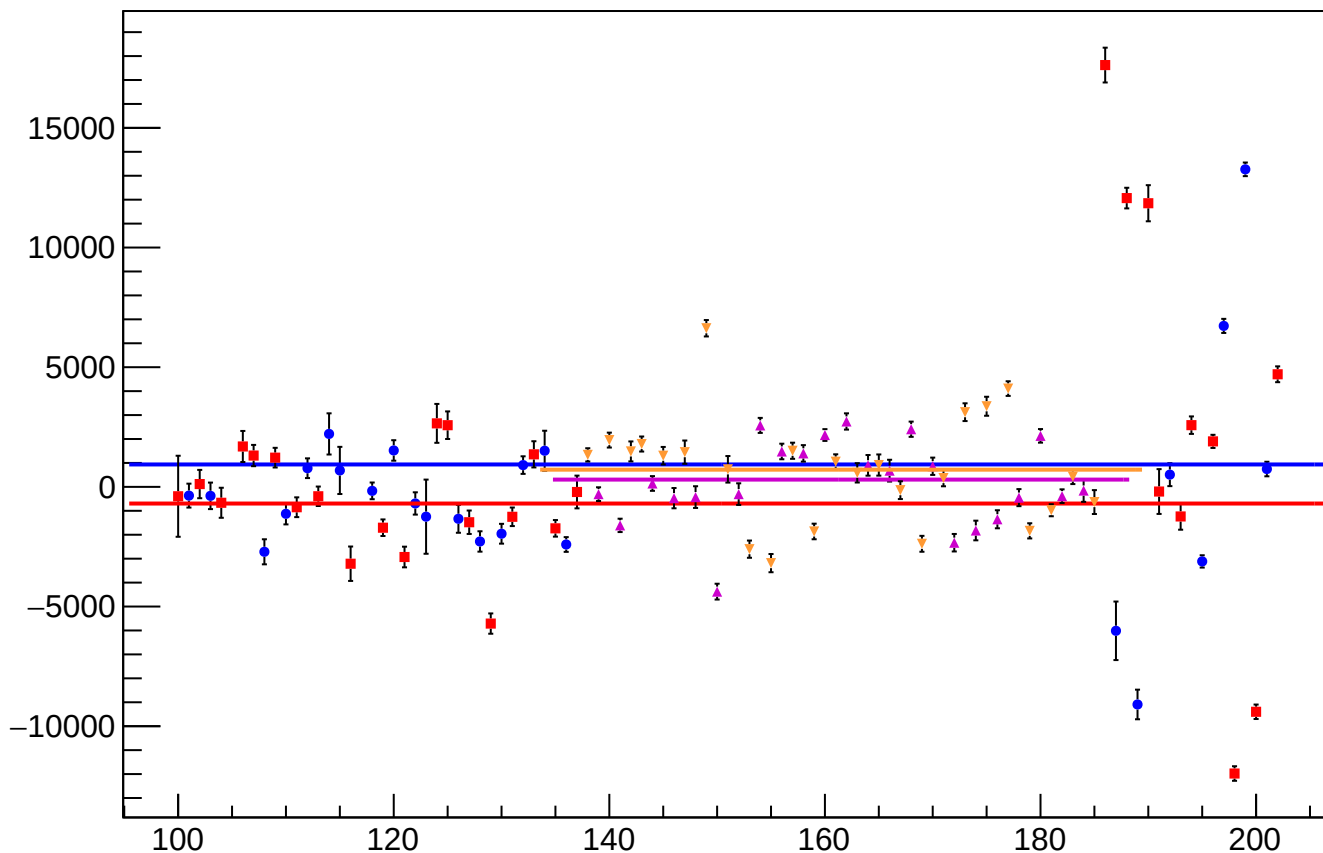
Right: 203.346+/-0.030 χ^2/NDF : 3756860.8/52

In: 204.681+/-0.028 χ^2/NDF : 2613810.2/46

Out: 211.802+/-0.028 χ^2/NDF : 3349199.0/53

All: 208.297+/-0.020 χ^2/NDF : 5995758.1/100

asym_bpm0r03WS_mean vs Slug, Sign Corrected



Right In: 936.547+/-86.332 χ^2/NDF : 3160.8/23

Left Out: 718.705+/-69.601 χ^2/NDF :1018.5/24

Right Out: -696.326+/-82.630 χ^2/NDF : 4752.3/28

Left In: 304.161+/-70.958 χ^2/NDF :643.5/22

Left: 515.435+/-49.688 χ^2/NDF : 1679.4/47

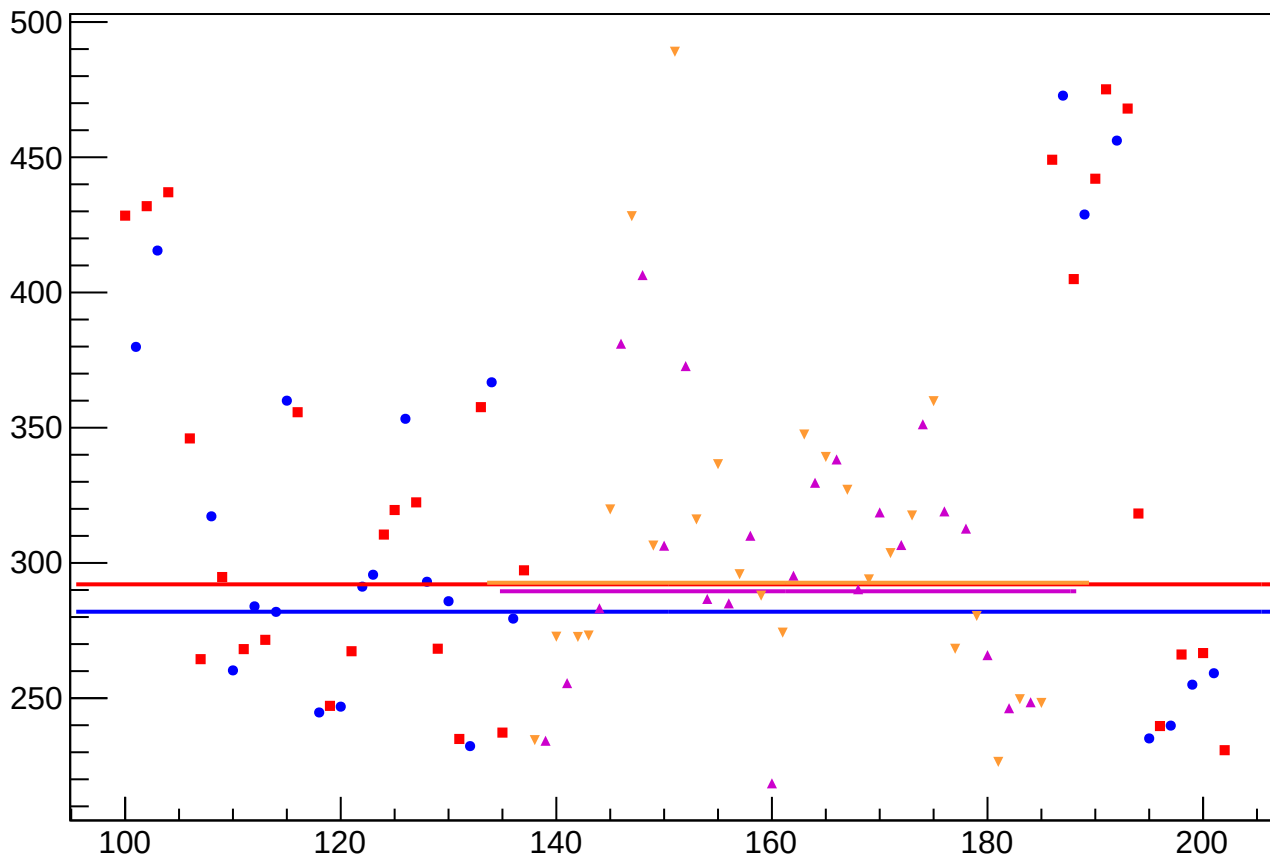
Right: 84.350+/-59.694 χ^2/NDF : 8099.7/52

In: 559.126+/-54.818 χ^2/NDF :3836.3/46

Out: 131.421+/-53.233 χ^2/NDF :5942.4/53

All: 339.001+/-38.189 χ^2/NDF : 9810.0/100

asym_bpm0r03WS_rms vs Slug, Sign Corrected



Right In: 281.964 ± 0.061 $\chi^2/\text{NDF}: 906962.1/23$

Left Out: 292.686 ± 0.049 $\chi^2/\text{NDF}: 925193.6/24$

Right Out: 292.089 ± 0.058 $\chi^2/\text{NDF}: 1230883.6/28$

Left In: 289.522 ± 0.050 $\chi^2/\text{NDF}: 777901.0/22$

Left: 291.134 ± 0.035 $\chi^2/\text{NDF}: 1705121.5/47$

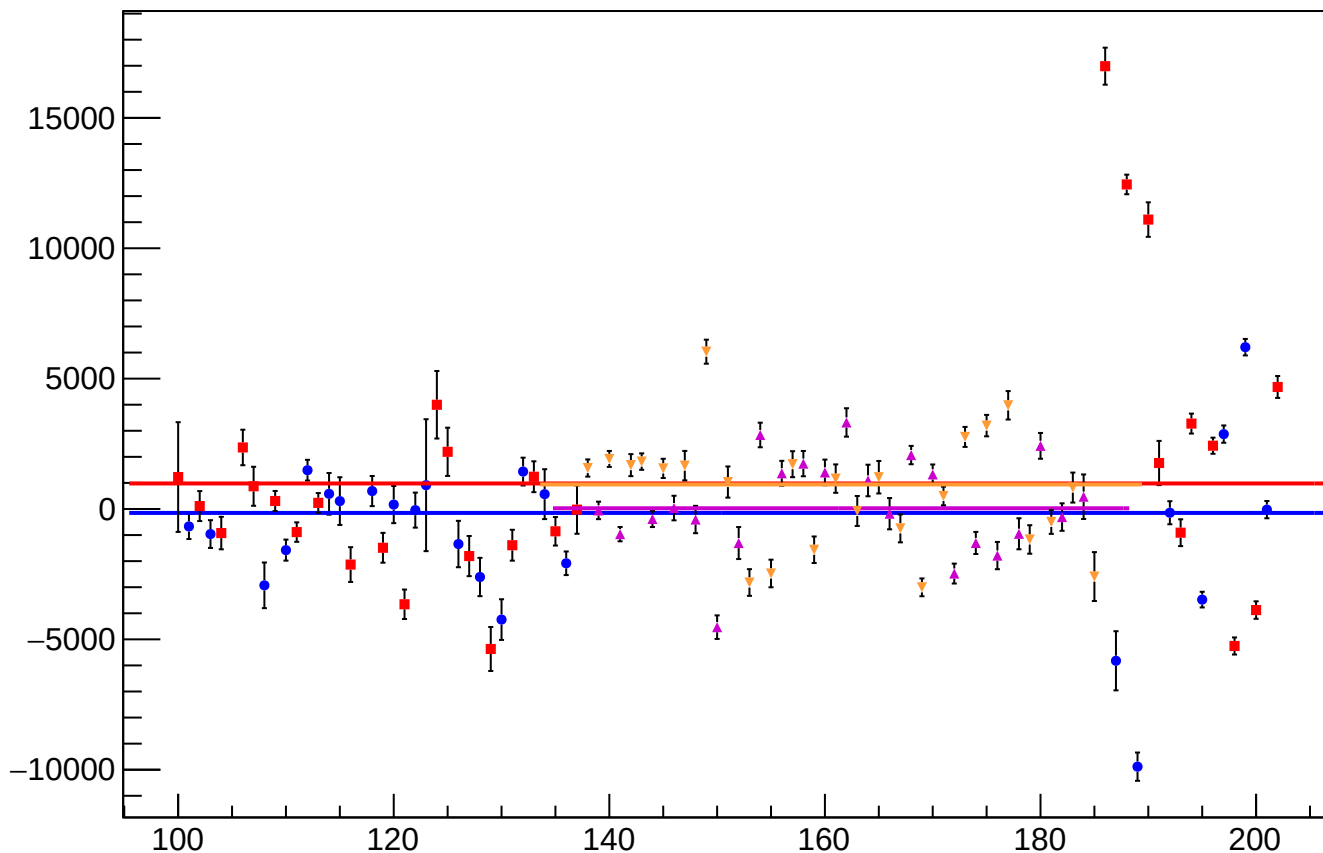
Right: 287.248 ± 0.042 $\chi^2/\text{NDF}: 2152200.9/52$

In: 286.475 ± 0.039 $\chi^2/\text{NDF}: 1694009.8/46$

Out: 292.438 ± 0.038 $\chi^2/\text{NDF}: 2156138.2/53$

All: 289.544 ± 0.027 $\chi^2/\text{NDF}: 3862329.3/100$

asym_bpm0r05WS_mean vs Slug, Sign Corrected



Right In: -150.787 ± 102.905 $\chi^2/\text{NDF}: 1070.8/23$

Left Out: 941.598 ± 89.119 $\chi^2/\text{NDF}: 544.6/24$

Right Out: 979.248 ± 94.514 $\chi^2/\text{NDF}: 2655.1/28$

Left In: 27.763 ± 92.331 $\chi^2/\text{NDF}: 362.5/22$

Left: 500.853 ± 64.122 $\chi^2/\text{NDF}: 957.8/47$

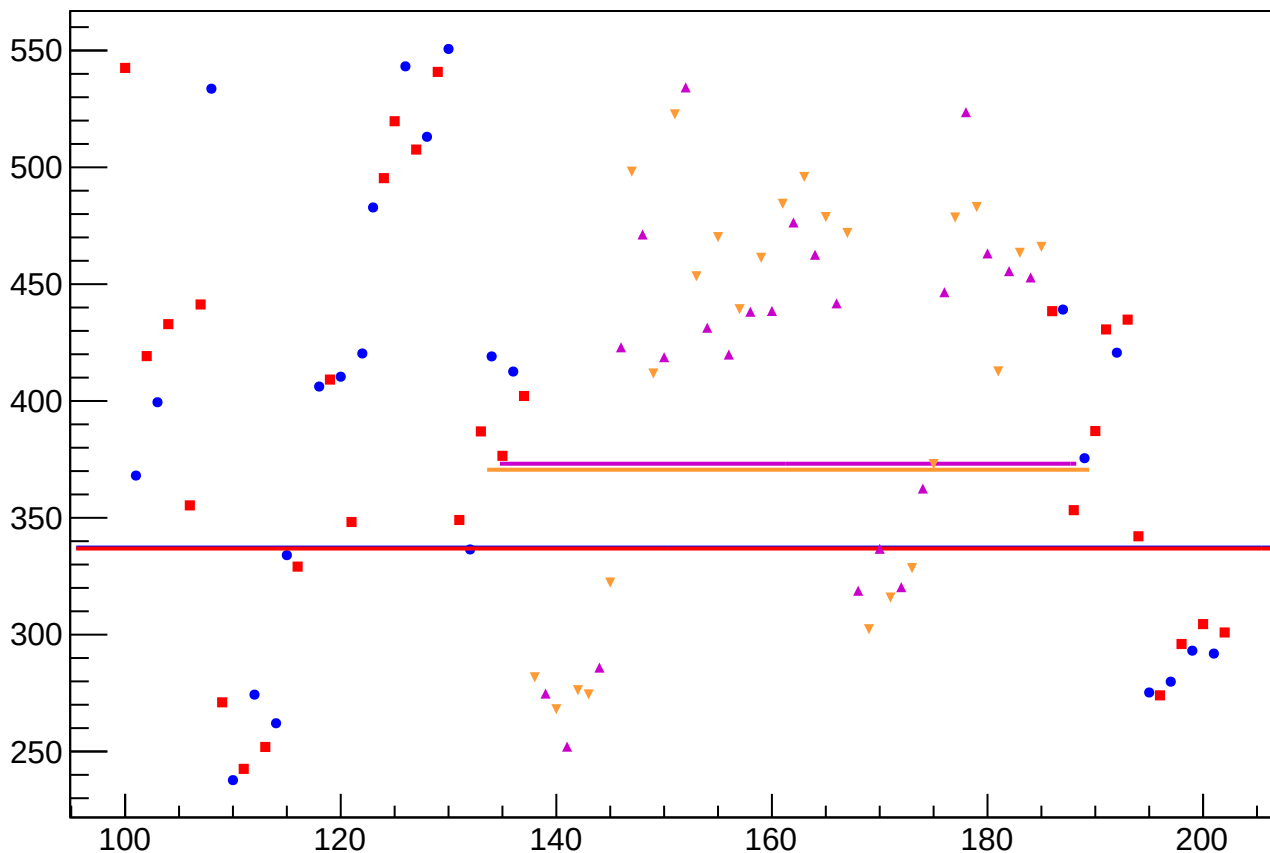
Right: 462.178 ± 69.609 $\chi^2/\text{NDF}: 3791.3/52$

In: -51.870 ± 68.723 $\chi^2/\text{NDF}: 1435.0/46$

Out: 959.318 ± 64.840 $\chi^2/\text{NDF}: 3199.8/53$

All: 483.099 ± 47.162 $\chi^2/\text{NDF}: 4749.3/100$

asym_bpm0r05WS_rms vs Slug, Sign Corrected



Right In: 337.267 ± 0.073 $\chi^2/\text{NDF}: 1172160.7/23$

Left Out: 370.580 ± 0.063 $\chi^2/\text{NDF}: 1878118.9/24$

Right Out: 336.853 ± 0.067 $\chi^2/\text{NDF}: 1128368.0/28$

Left In: 373.161 ± 0.065 $\chi^2/\text{NDF}: 1636244.2/22$

Left: 371.824 ± 0.045 $\chi^2/\text{NDF}: 3515172.3/47$

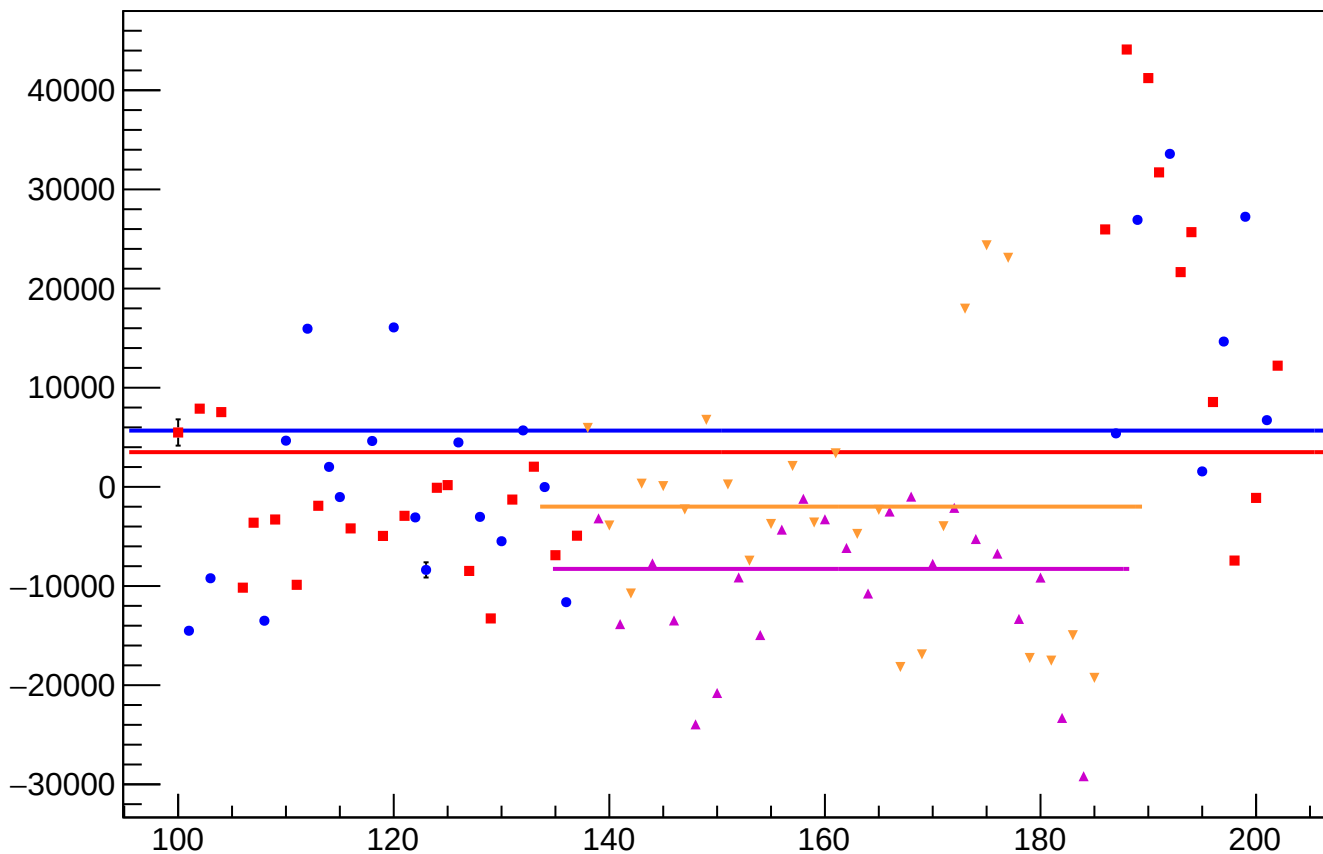
Right: 337.042 ± 0.049 $\chi^2/\text{NDF}: 2300546.3/52$

In: 357.152 ± 0.049 $\chi^2/\text{NDF}: 2943210.3/46$

Out: 354.706 ± 0.046 $\chi^2/\text{NDF}: 3141300.1/53$

All: 355.858 ± 0.033 $\chi^2/\text{NDF}: 6085850.7/100$

asym_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 5675.661 $\pm$ 45.367 χ^2 /NDF: 84673.6/23

Left Out: -1991.788 $\pm$ 42.427 χ^2 /NDF:63766.6/24

Right Out: 3501.445 $\pm$ 42.017 χ^2 /NDF: 132040.1/28

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

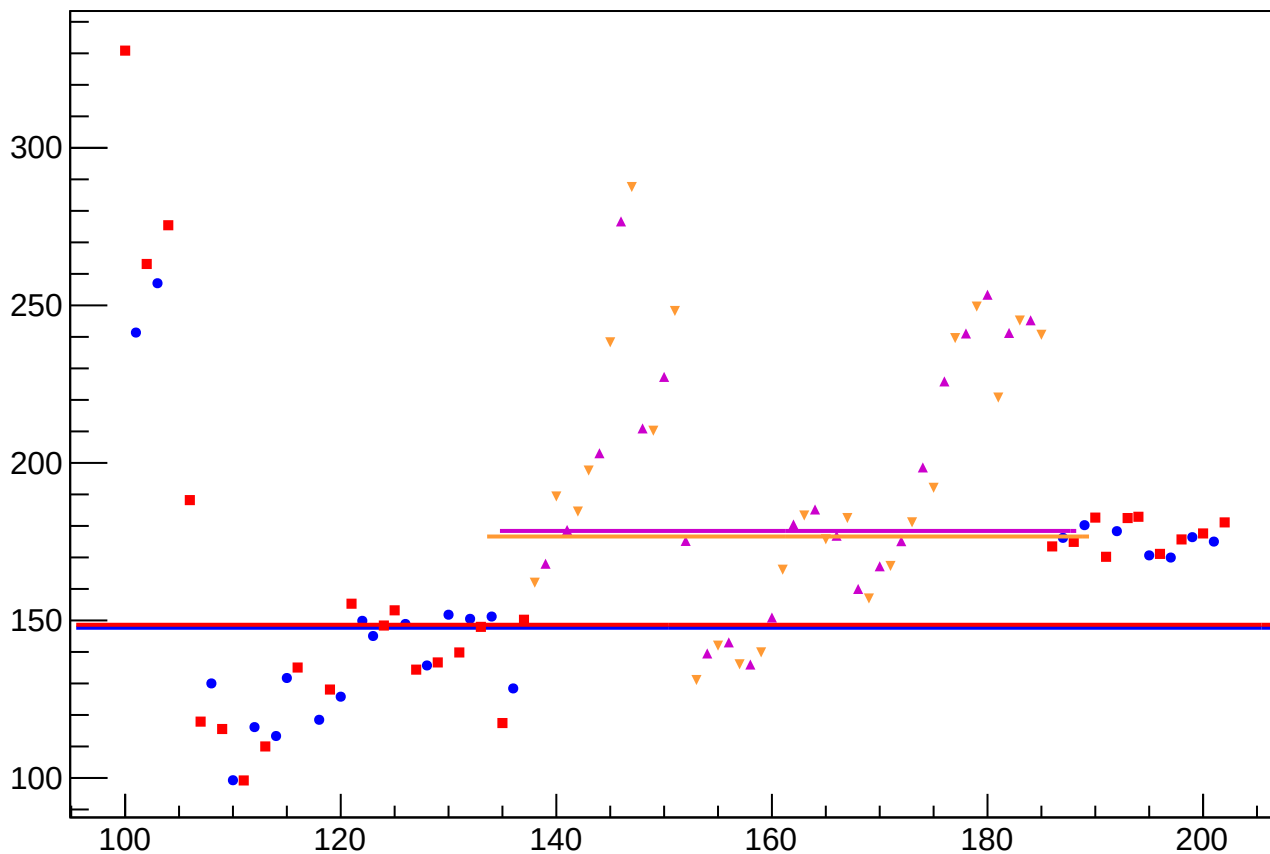
Right: 4505.325 $\pm$ 30.827 χ^2 /NDF: 217950.0/52

In: -1464.536 $\pm$ 31.696 χ^2 /NDF:155935.6/46

Out: 781.485 $\pm$ 29.854 χ^2 /NDF:204270.0/53

All: -274.390 $\pm$ 21.732 χ^2 /NDF: 362866.5/100

asym_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 147.684+/-0.032 χ^2/NDF : 993110.2/23

Left Out: 176.641+/-0.030 χ^2/NDF :1551048.8/24

Right Out: 148.632+/-0.030 χ^2/NDF : 1353383.1/28

Left In: 178.413+/-0.031 χ^2/NDF :1293736.2/22

Left: 177.489+/-0.022 χ^2/NDF : 2846455.0/47

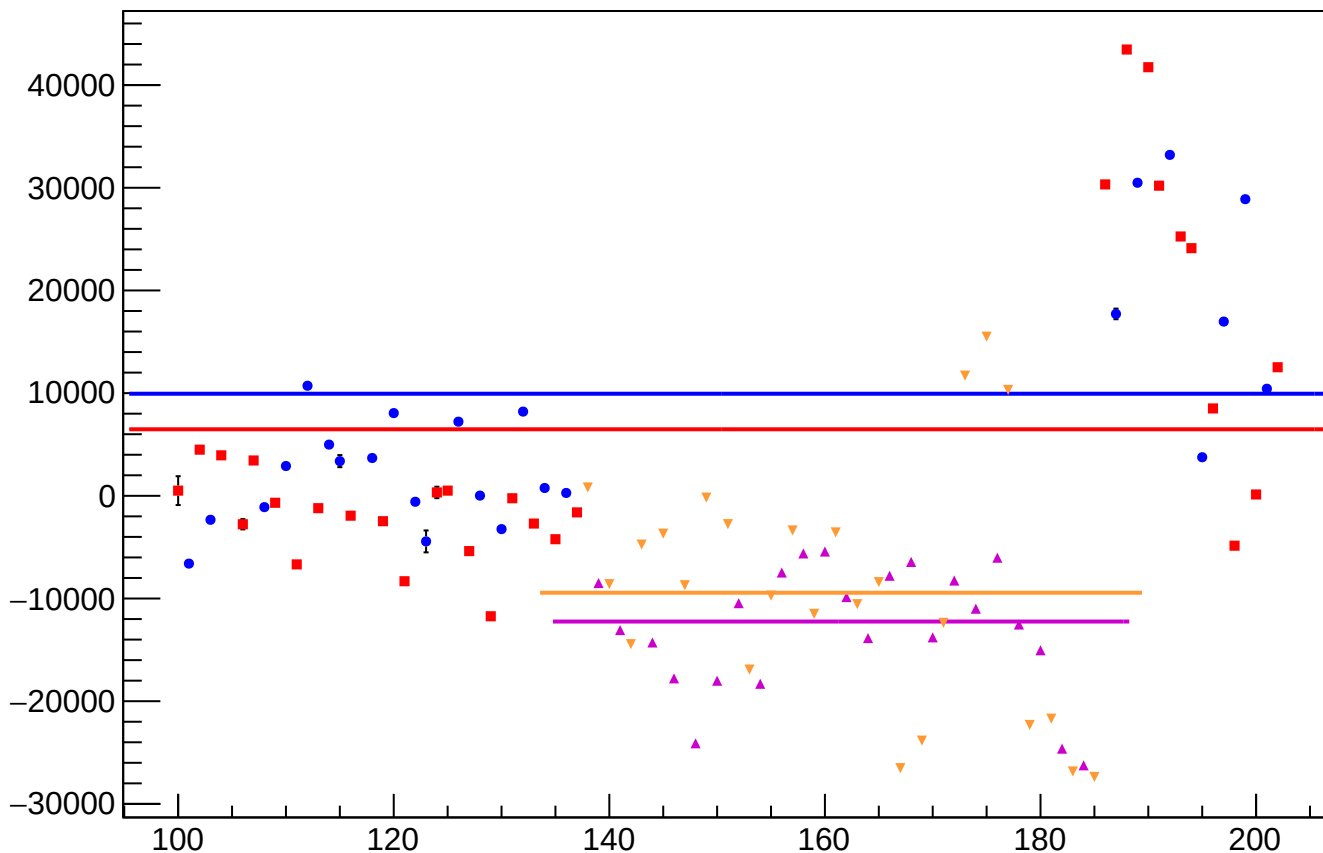
Right: 148.194+/-0.022 χ^2/NDF : 2346963.0/52

In: 163.414+/-0.022 χ^2/NDF :2756547.0/46

Out: 162.500+/-0.021 χ^2/NDF :3344487.7/53

All: 162.930+/-0.015 χ^2/NDF : 6101915.2/100

asym_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 9942.915+/-53.109

χ^2/NDF : 45569.6/23

Left: -10889.638+/-31.621

χ^2/NDF : 80800.7/47

Left Out: -9437.408+/-45.534

χ^2/NDF : 62220.4/24

Right: 8047.941+/-35.734

χ^2/NDF : 150023.6/52

Right Out: 6480.357+/-48.304

χ^2/NDF : 102127.7/28

In: -3226.097+/-33.857

χ^2/NDF : 165765.1/46

Out: -1947.955+/-33.134

χ^2/NDF : 221846.3/53

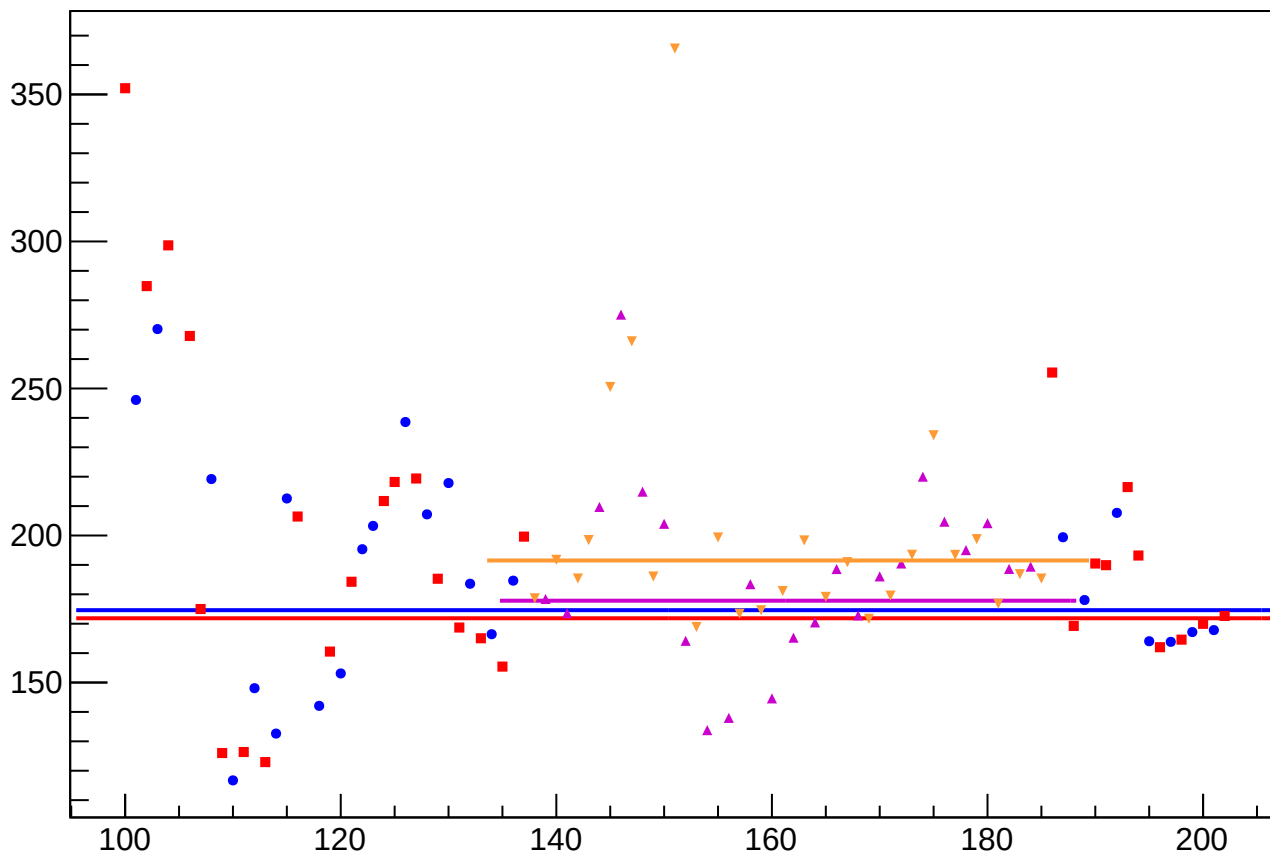
Left In: -12242.226+/-43.944

χ^2/NDF : 16615.8/22

All: -2573.223+/-23.681

χ^2/NDF : 388339.3/1

asym_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 174.606 $\pm$ 0.038 χ^2 /NDF: 758043.5/23

Left Out: 191.507 $\pm$ 0.032 χ^2 /NDF: 727251.6/24

Right Out: 171.850 $\pm$ 0.034 χ^2 /NDF: 1123599.9/28

Left In: 177.821 $\pm$ 0.031 χ^2 /NDF: 862494.4/22

Left: 184.421 $\pm$ 0.022 χ^2 /NDF: 1683284.8/47

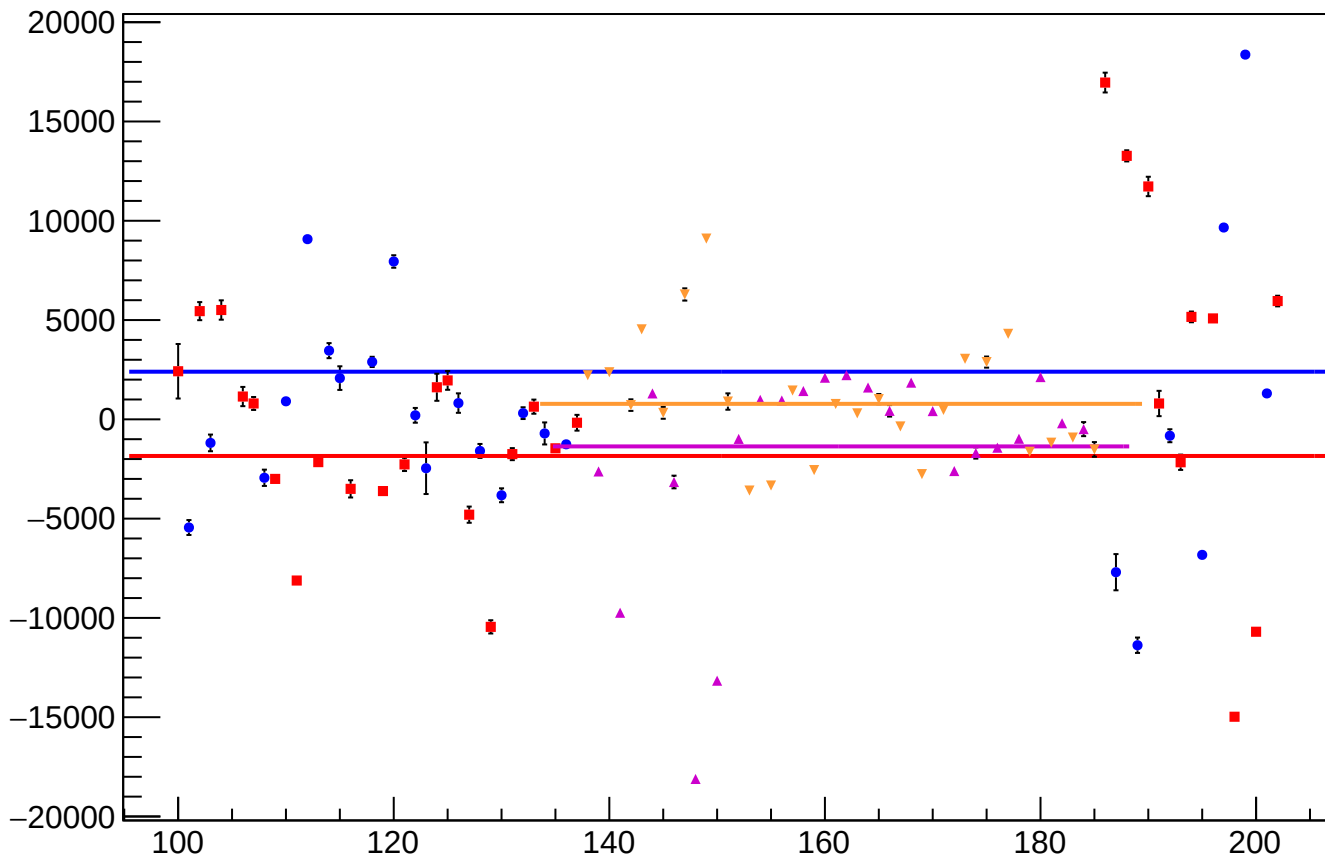
Right: 173.098 $\pm$ 0.025 χ^2 /NDF: 1884590.5/52

In: 176.515 $\pm$ 0.024 χ^2 /NDF: 1624890.1/46

Out: 182.258 $\pm$ 0.023 χ^2 /NDF: 2026216.8/53

All: 179.448 $\pm$ 0.017 χ^2 /NDF: 3680505.7/100

asym_bpm0i05WS_mean vs Slug, Sign Corrected



Right In: 2399.071 ± 59.614 $\chi^2/\text{NDF}: 14191.0/23$

Left Out: 779.983 ± 47.457 $\chi^2/\text{NDF}: 4260.8/24$

Right Out: -1844.516 ± 54.666 $\chi^2/\text{NDF}: 16534.3/28$

Left In: -1363.043 ± 45.807 $\chi^2/\text{NDF}: 11632.9/22$

Left: -329.448 ± 32.958 $\chi^2/\text{NDF}: 16949.3/47$

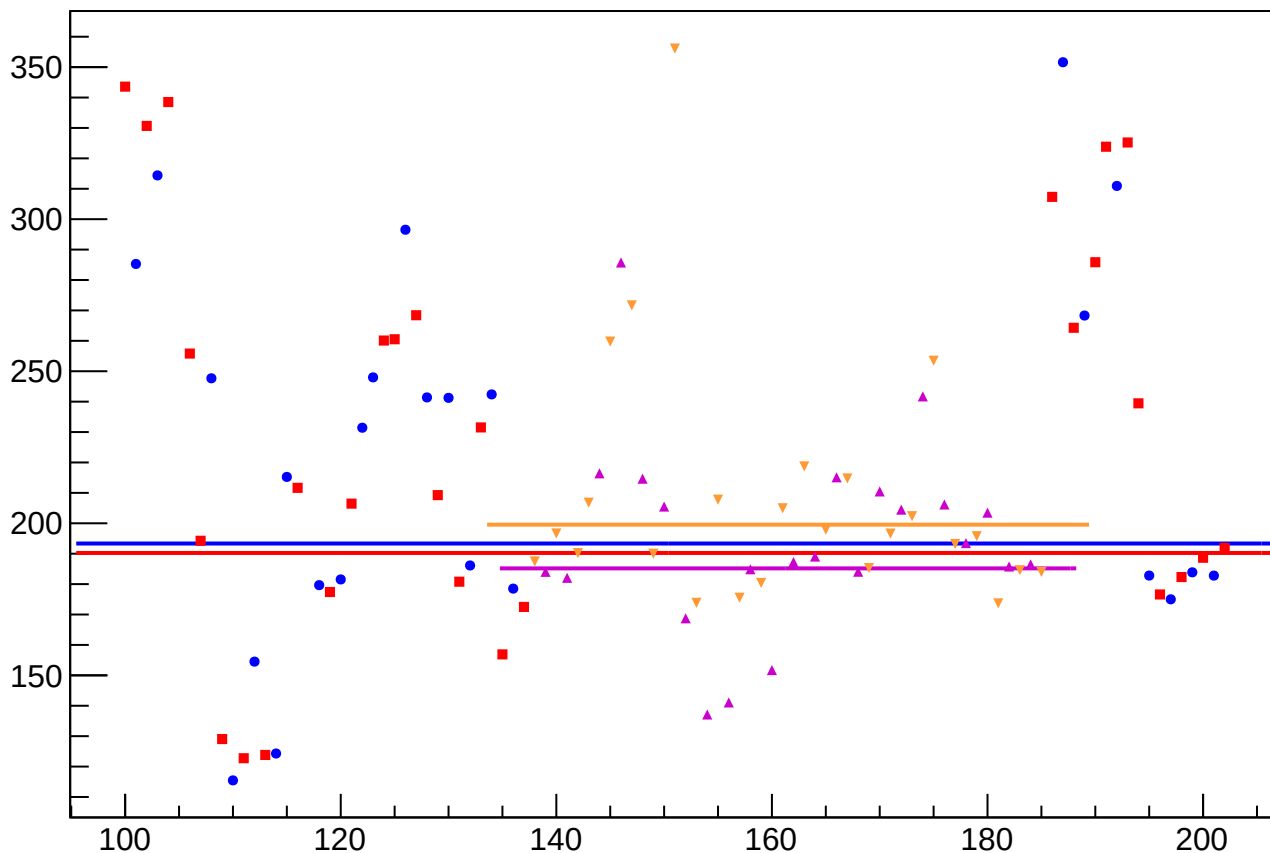
Right: 93.893 ± 40.290 $\chi^2/\text{NDF}: 33477.8/52$

In: 33.592 ± 36.322 $\chi^2/\text{NDF}: 28328.0/46$

Out: -347.928 ± 35.837 $\chi^2/\text{NDF}: 22109.4/53$

All: -159.733 ± 25.510 $\chi^2/\text{NDF}: 50493.3/100$

asym_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 193.348 ± 0.042 χ^2/NDF : 1406215.6/23

Left Out: 199.547 ± 0.034 χ^2/NDF : 729356.3/24

Right Out: 190.243 ± 0.039 χ^2/NDF : 2127644.8/28

Left In: 185.171 ± 0.032 χ^2/NDF : 882752.2/22

Left: 192.104 ± 0.023 χ^2/NDF : 1707122.0/47

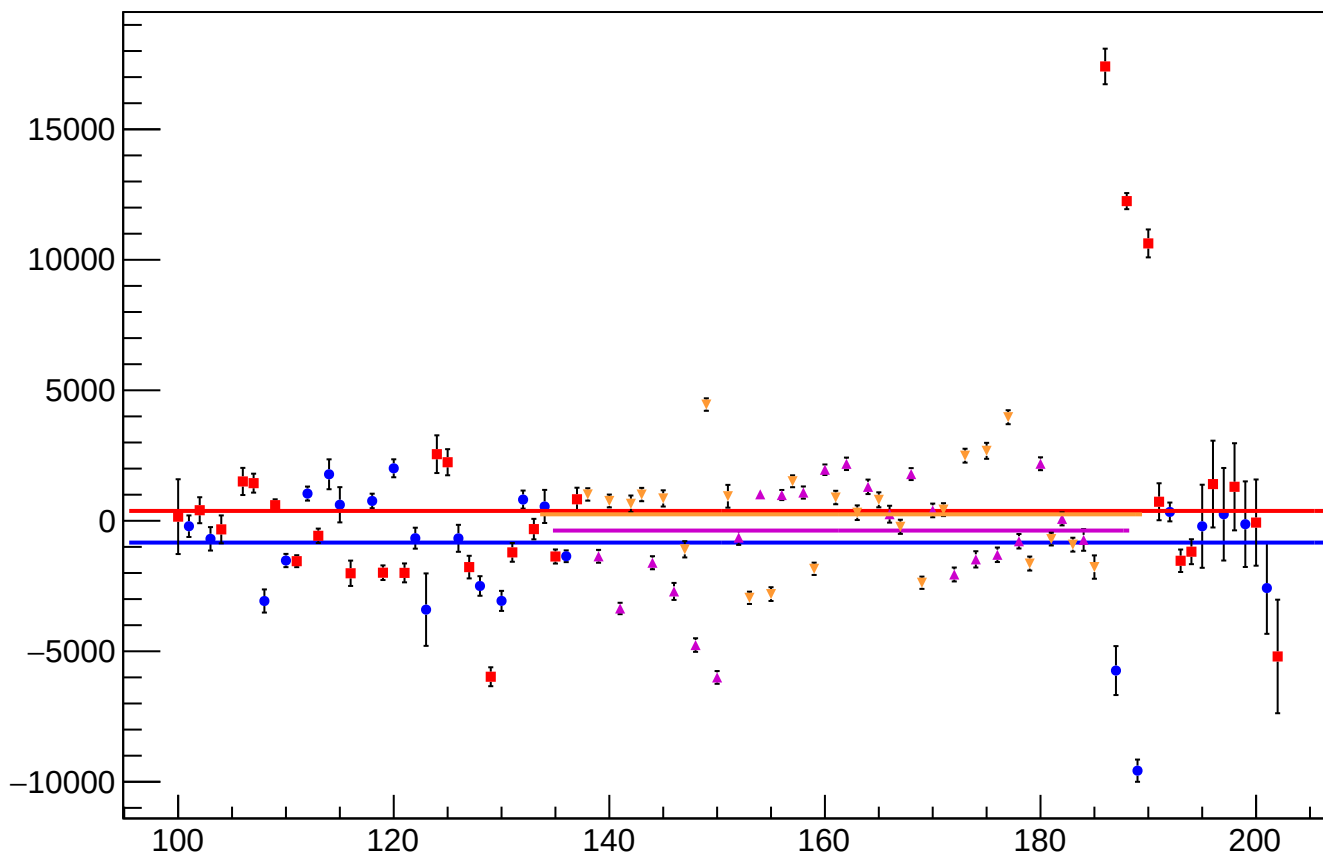
Right: 191.661 ± 0.028 χ^2/NDF : 3536808.8/52

In: 188.206 ± 0.026 χ^2/NDF : 2312631.8/46

Out: 195.548 ± 0.025 χ^2/NDF : 2890037.8/53

All: 191.927 ± 0.018 χ^2/NDF : 5244075.6/100

asym_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -834.893+/-83.739 χ^2/NDF : 761.1/23

Left Out: 247.844+/-53.555 χ^2/NDF :1355.1/24

Right Out: 377.934+/-75.140 χ^2/NDF : 3169.1/28

Left In: -374.122+/-52.049 χ^2/NDF :1801.0/22

Left: -72.006+/-37.325 χ^2/NDF : 3225.5/47

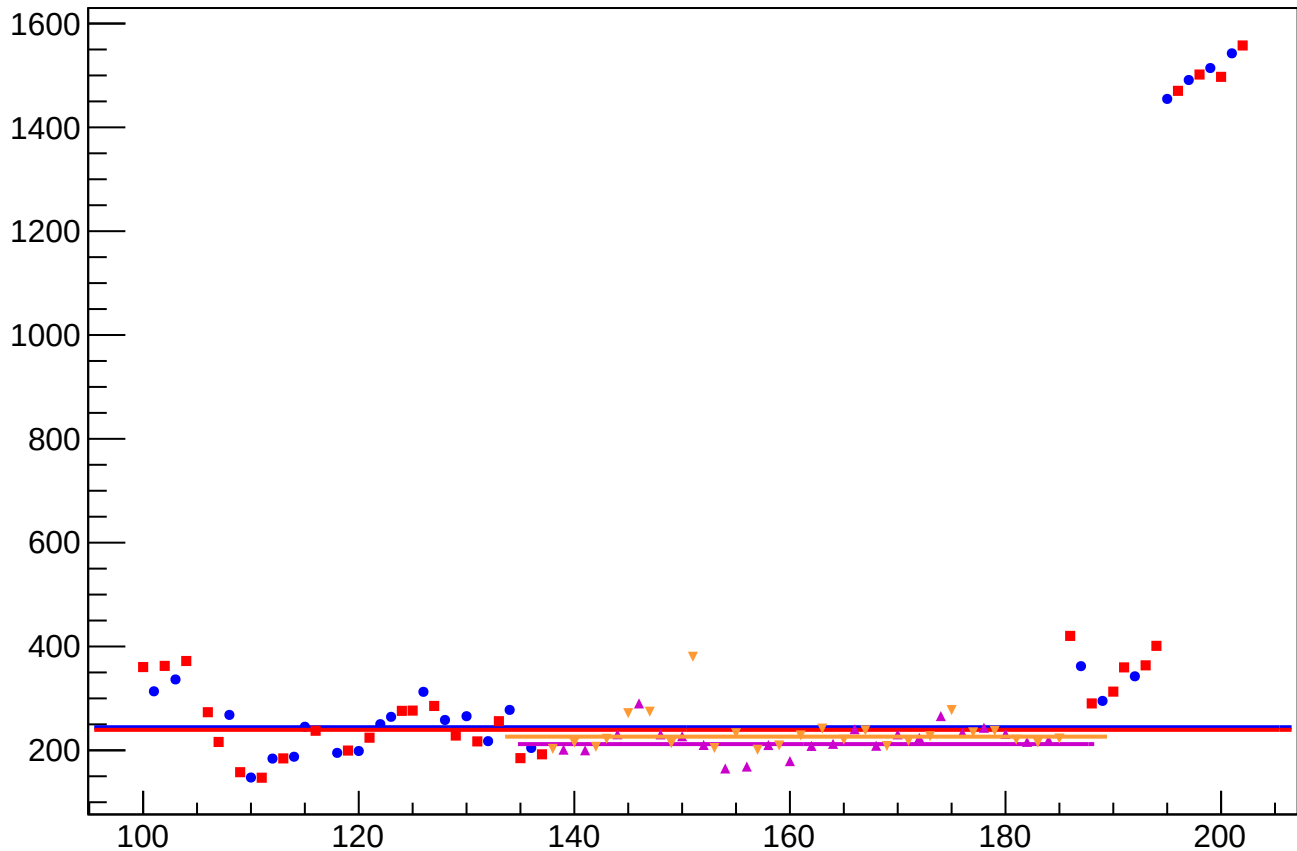
Right: -163.030+/-55.926 χ^2/NDF : 4046.5/52

In: -502.528+/-44.206 χ^2/NDF :2584.0/46

Out: 291.667+/-43.611 χ^2/NDF :4526.2/53

All: -100.056+/-31.046 χ^2/NDF : 7273.8/100

asym_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 244.489 $\pm$ 0.059 χ^2 /NDF: 5427704.9/23

Left Out: 226.322 $\pm$ 0.038 χ^2 /NDF: 521041.8/24

Right Out: 239.449 $\pm$ 0.053 χ^2 /NDF: 5967447.8/28

Left In: 211.970 $\pm$ 0.037 χ^2 /NDF: 584344.5/22

Left: 218.941 $\pm$ 0.026 χ^2 /NDF: 1179246.7/47

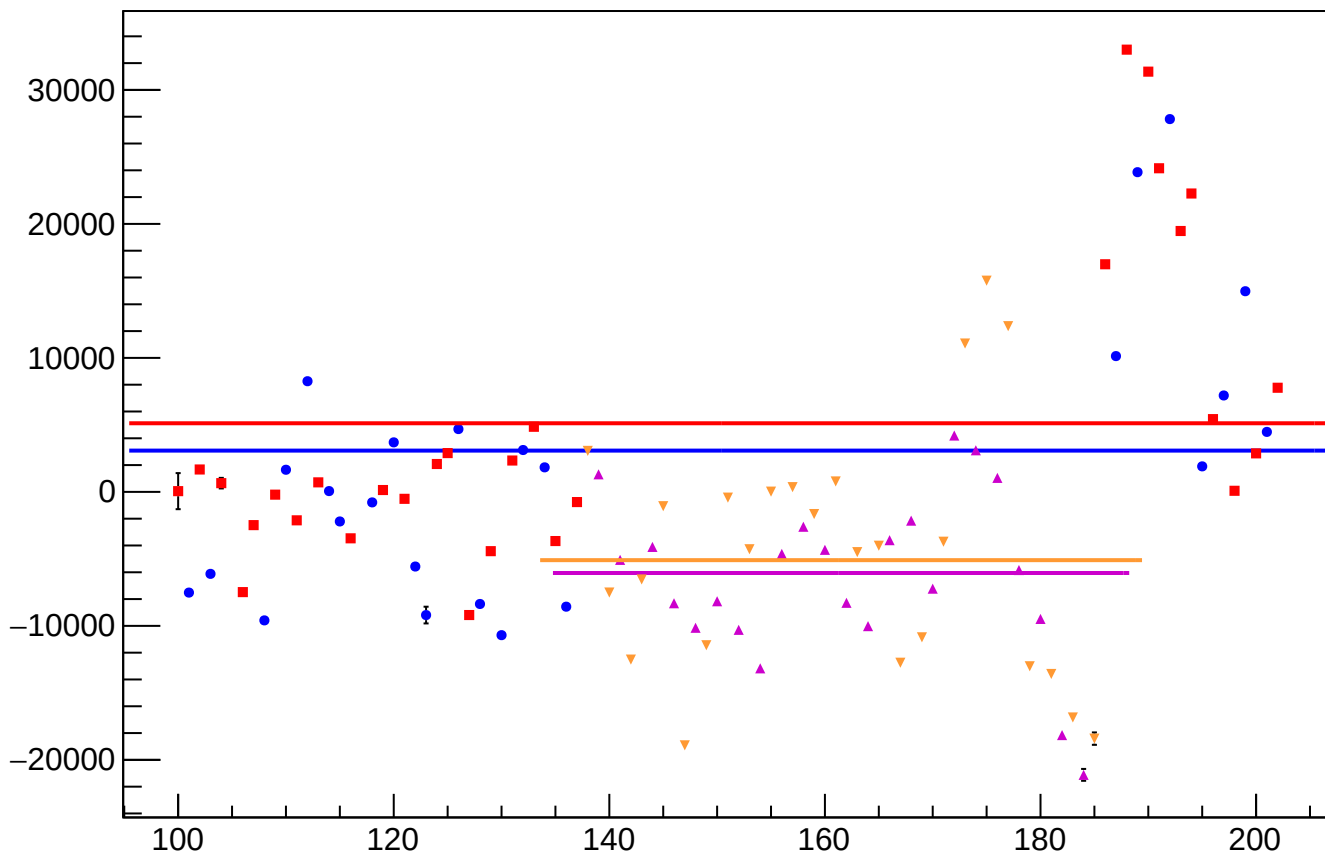
Right: 241.697 $\pm$ 0.040 χ^2 /NDF: 11399165.5/52

In: 221.032 $\pm$ 0.031 χ^2 /NDF: 6229608.2/46

Out: 230.744 $\pm$ 0.031 χ^2 /NDF: 6528972.0/53

All: 225.954 $\pm$ 0.022 χ^2 /NDF: 12807498.0/100

asym_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: 3081.097+/-38.563

χ^2/NDF : 73214.0/23

Left Out: -5095.305+/-33.703

χ^2/NDF : 54395.4/24

Right Out: 5121.595+/-35.401

χ^2/NDF : 100997.5/28

Left In: -6053.569+/-34.998

χ^2/NDF : 17590.3/22

Left: -5556.386+/-24.277

χ^2/NDF : 72374.6/47

Right: 4188.416+/-26.078

χ^2/NDF : 175730.8/52

In: -1927.855+/-25.916

χ^2/NDF : 121572.6/46

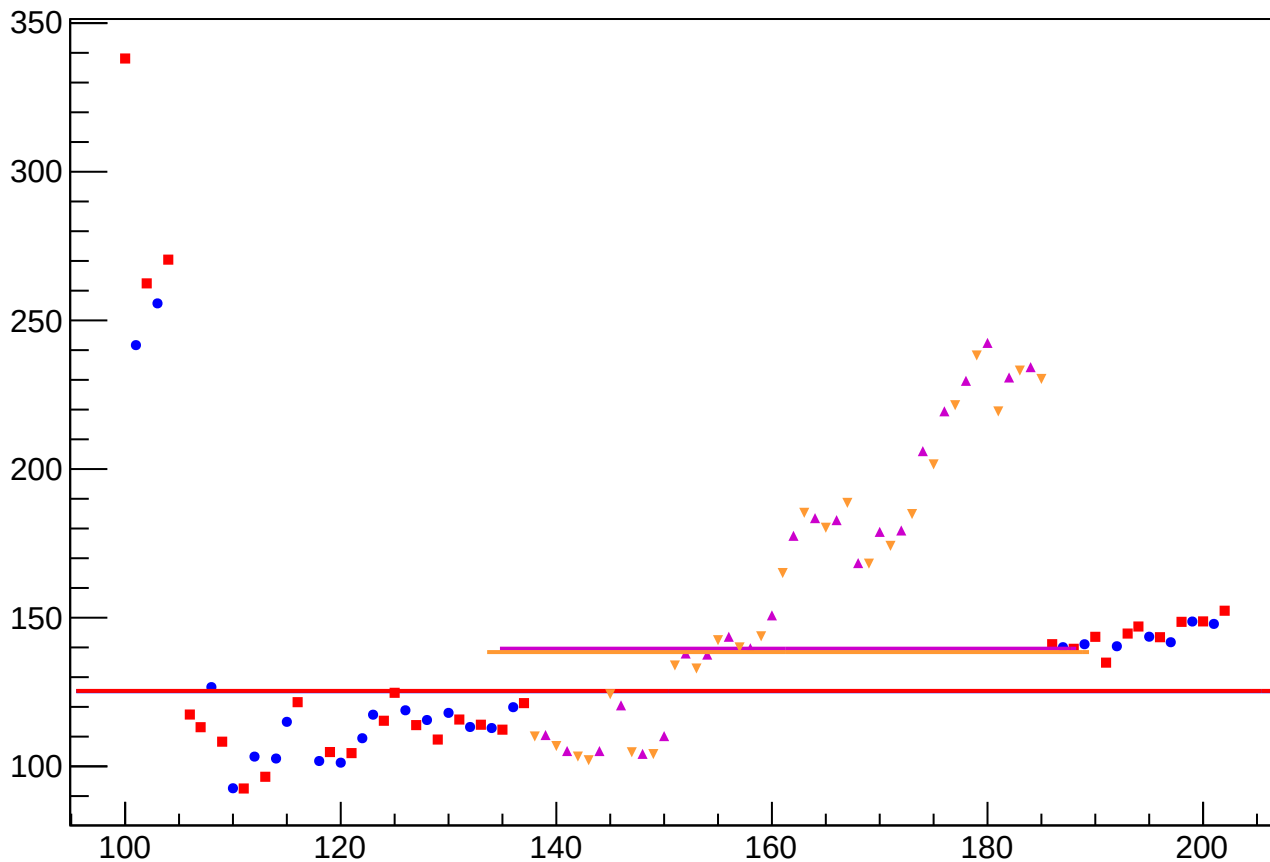
Out: -237.658+/-24.410

χ^2/NDF : 199084.3/53

All: -1032.216+/-17.769

χ^2/NDF : 322910.7/1

asym_bpm1i02WS_rms vs Slug, Sign Corrected



Right In: 125.263+/-0.027 χ^2/NDF : 985803.1/23

Left Out: 138.436+/-0.024 χ^2/NDF :2549435.8/24

Right Out: 125.375+/-0.025 χ^2/NDF : 1178338.6/28

Left In: 139.578+/-0.025 χ^2/NDF :2413658.9/22

Left: 138.985+/-0.017 χ^2/NDF : 4964199.7/47

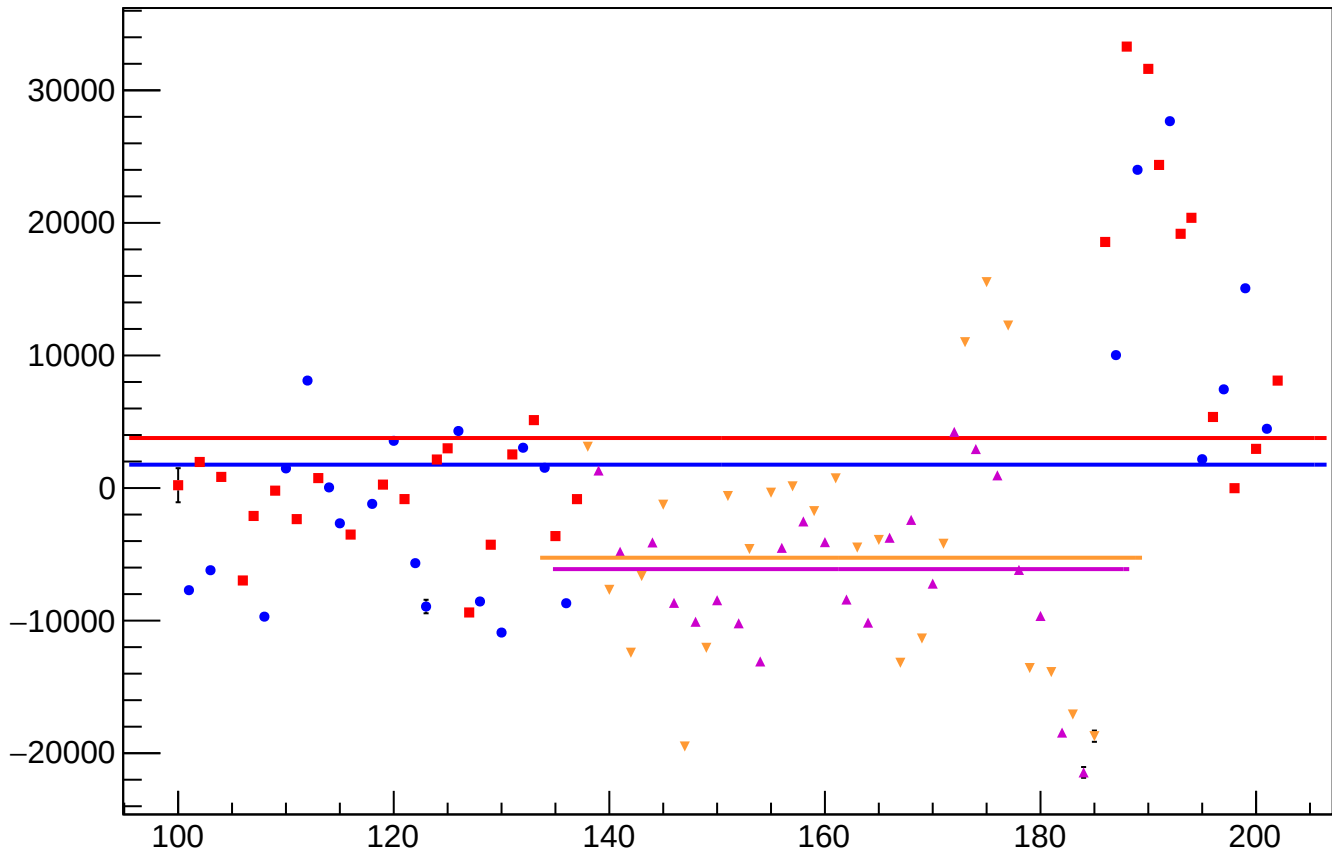
Right: 125.324+/-0.018 χ^2/NDF : 2164150.9/52

In: 133.112+/-0.018 χ^2/NDF :3550585.1/46

Out: 132.226+/-0.017 χ^2/NDF :3870566.7/53

All: 132.643+/-0.013 χ^2/NDF : 7422391.2/100

asym_bpm1i04WS_mean vs Slug, Sign Corrected



Right In: 1763.088 $\pm$ 34.290 χ^2/NDF : 80264.9/23

Left Out: -5255.652 $\pm$ 30.622 χ^2/NDF :64324.6/24

Right Out: 3772.851 $\pm$ 31.715 χ^2/NDF : 108088.4/28

Left In: -6114.901 $\pm$ 32.126 χ^2/NDF :21260.9/22

Left: -5664.697 $\pm$ 22.166 χ^2/NDF : 85960.3/47

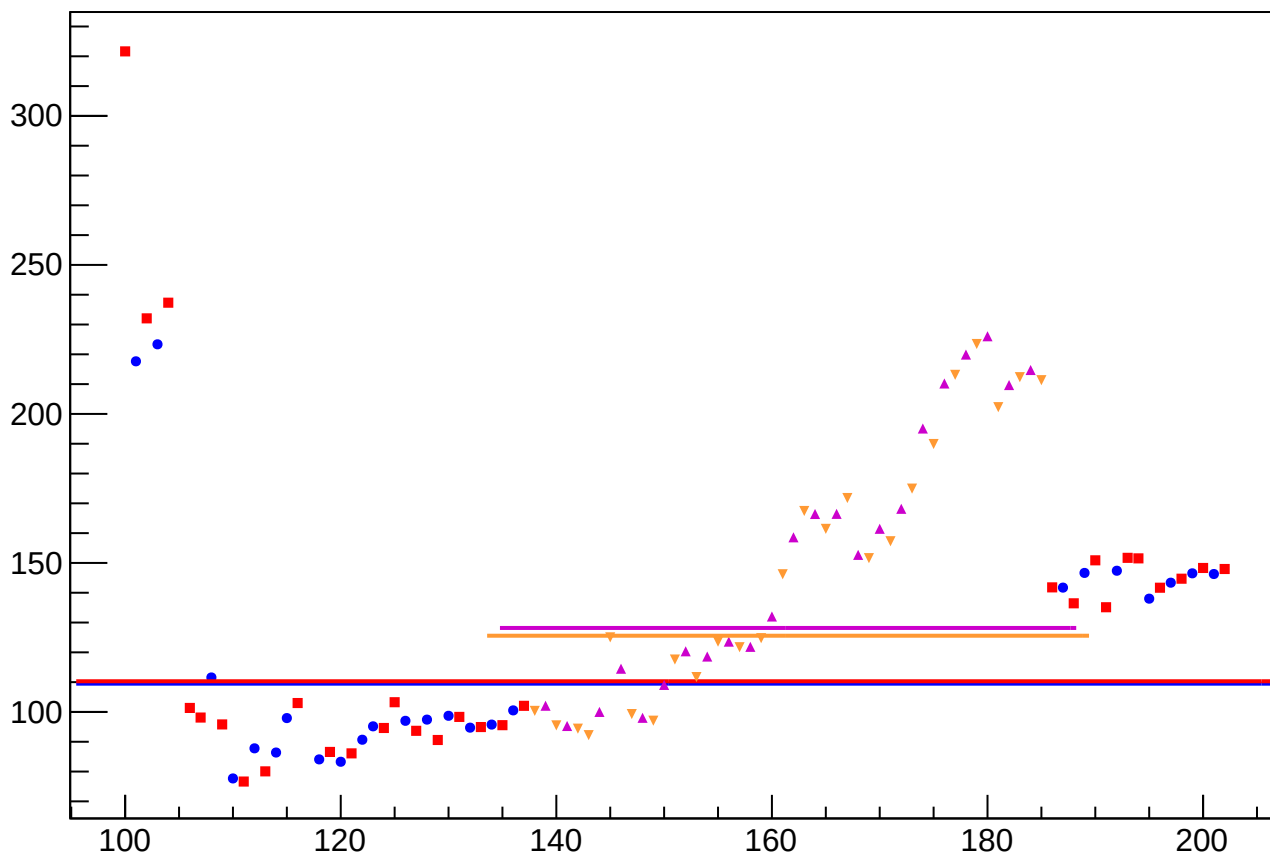
Right: 2846.273 $\pm$ 23.283 χ^2/NDF : 190204.7/52

In: -2432.402 $\pm$ 23.444 χ^2/NDF :129635.4/46

Out: -899.626 $\pm$ 22.029 χ^2/NDF :214354.2/53

All: -1618.365 $\pm$ 16.054 χ^2/NDF : 346259.7/100

asym_bpm1i04WS_rms vs Slug, Sign Corrected



Right In: 109.494+/-0.024 χ^2/NDF : 1569502.6/23

Left Out: 125.577+/-0.022 χ^2/NDF :2595752.6/24

Right Out: 110.298+/-0.022 χ^2/NDF : 1922652.5/28

Left In: 128.184+/-0.023 χ^2/NDF :2332977.5/22

Left: 126.818+/-0.016 χ^2/NDF : 4935627.6/47

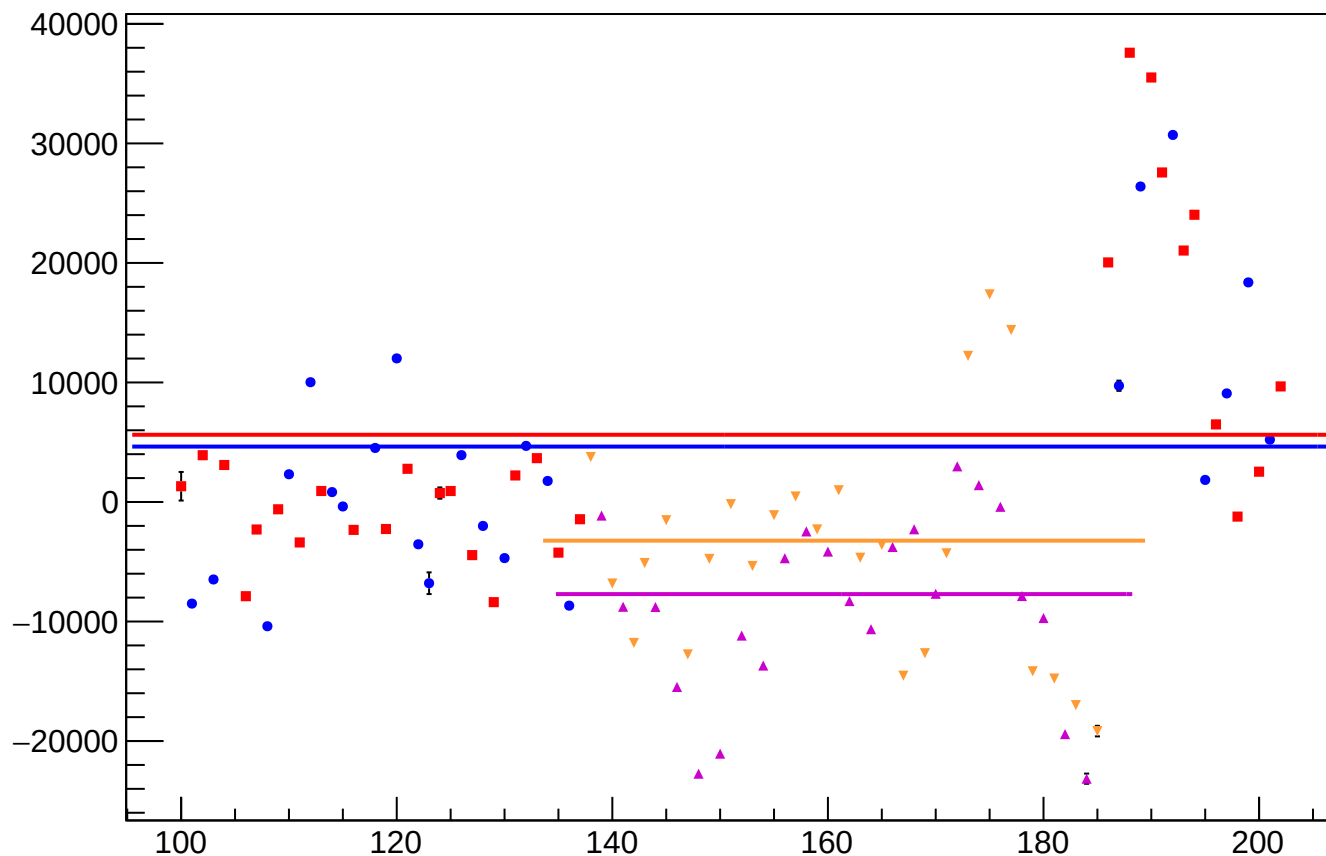
Right: 109.928+/-0.016 χ^2/NDF : 3492747.7/52

In: 119.447+/-0.017 χ^2/NDF :4218886.9/46

Out: 118.205+/-0.016 χ^2/NDF :4758638.6/53

All: 118.788+/-0.011 χ^2/NDF : 8980506.4/100

asym_bpm1i06WS_mean vs Slug, Sign Corrected



Right In: 4635.788 $\pm$ 45.586 χ^2/NDF : 57821.0/23

Left Out: -3234.922 $\pm$ 40.583 χ^2/NDF : 36739.9/24

Right Out: 5624.461 $\pm$ 41.987 χ^2/NDF : 90356.1/28

Left In: -7707.068 $\pm$ 42.990 χ^2/NDF : 21268.3/22

Left: -5342.284 $\pm$ 29.511 χ^2/NDF : 63730.6/47

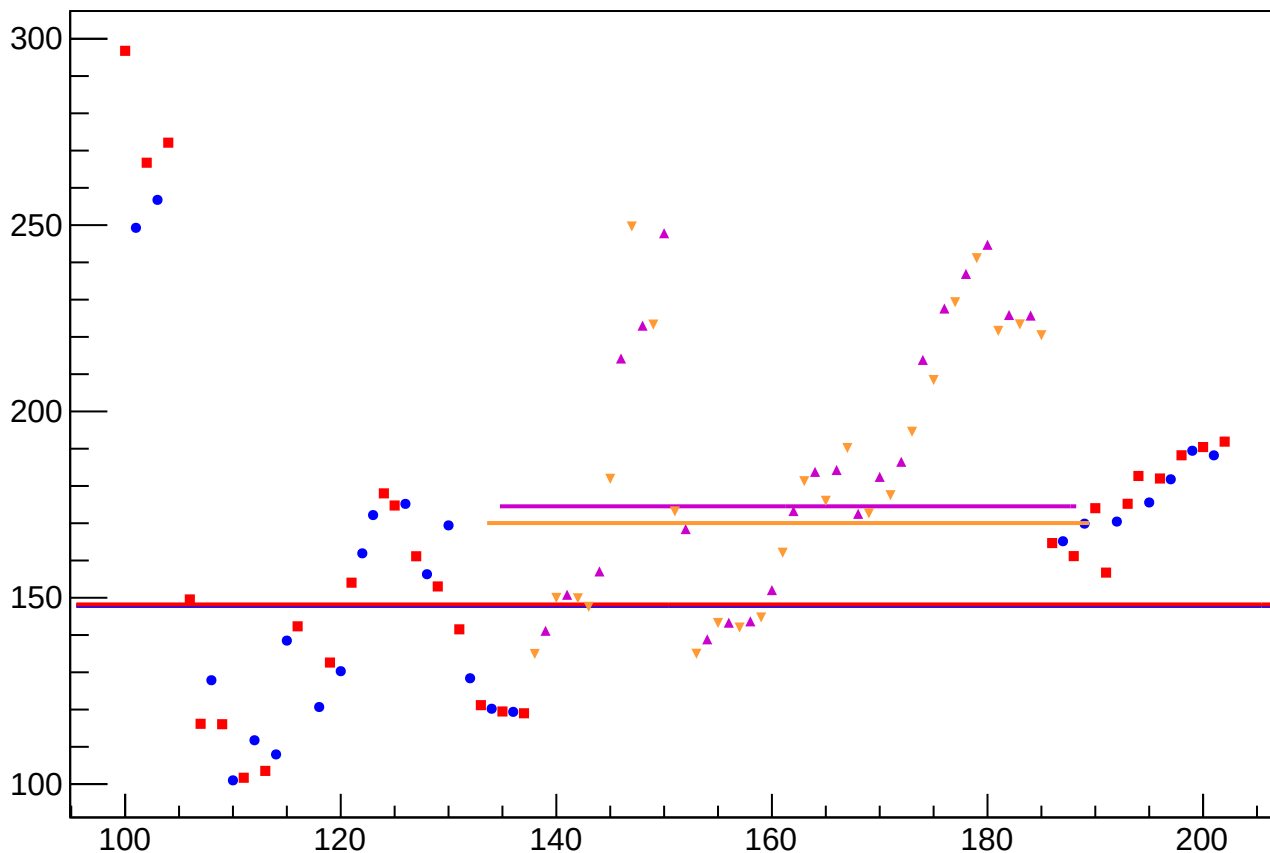
Right: 5170.680 $\pm$ 30.883 χ^2/NDF : 148431.6/52

In: -1897.033 $\pm$ 31.276 χ^2/NDF : 117892.0/46

Out: 1044.100 $\pm$ 29.180 χ^2/NDF : 150114.0/53

All: -324.639 $\pm$ 21.336 χ^2/NDF : 272733.8/10

asym_bpm1i06WS_rms vs Slug, Sign Corrected



Right In: 147.820 $\pm$ 0.032 χ^2 /NDF: 1206519.4/23

Left Out: 170.050 $\pm$ 0.029 χ^2 /NDF:1240866.9/24

Right Out: 148.205 $\pm$ 0.030 χ^2 /NDF: 1445858.2/28

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

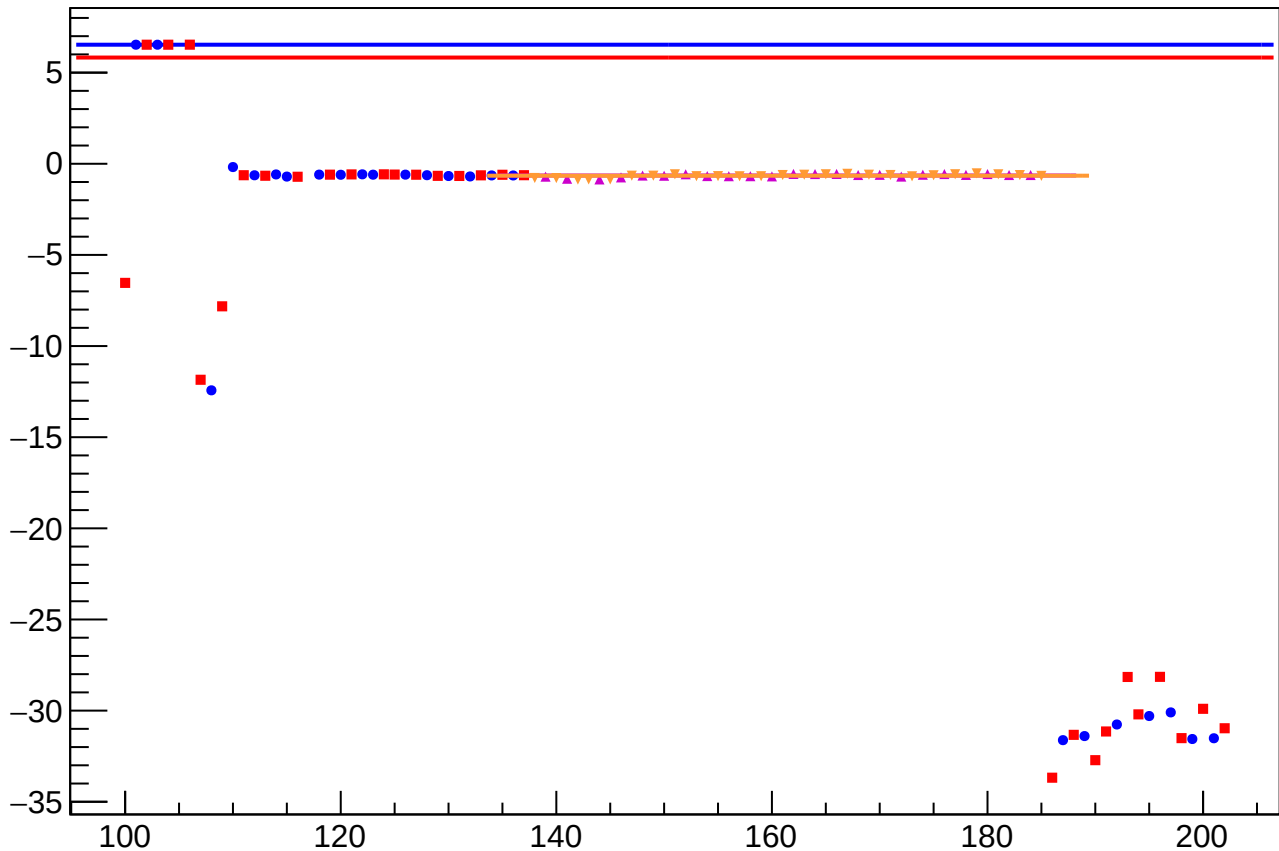
Right: 148.029 $\pm$ 0.022 χ^2 /NDF: 2652454.8/52

In: 161.962 $\pm$ 0.022 χ^2 /NDF:2780249.6/46

Out: 159.499 $\pm$ 0.021 χ^2 /NDF:2966599.0/53

All: 160.645 $\pm$ 0.015 χ^2 /NDF: 5753480.2/100

yield_cav4bX_mean vs Slug, Sign Corrected



Right In: 6.532+/-0.000 χ^2/NDF : 127874347712.2/23

Left Out: -0.654+/-0.000 χ^2/NDF : 179109810.4/24

Right Out: 5.827+/-0.000 χ^2/NDF : 755947754590128.9/28

Left In: -0.644+/-0.000 χ^2/NDF : 122913584.0/22

Left: -0.649+/-0.000 χ^2/NDF : 302910331.9/47

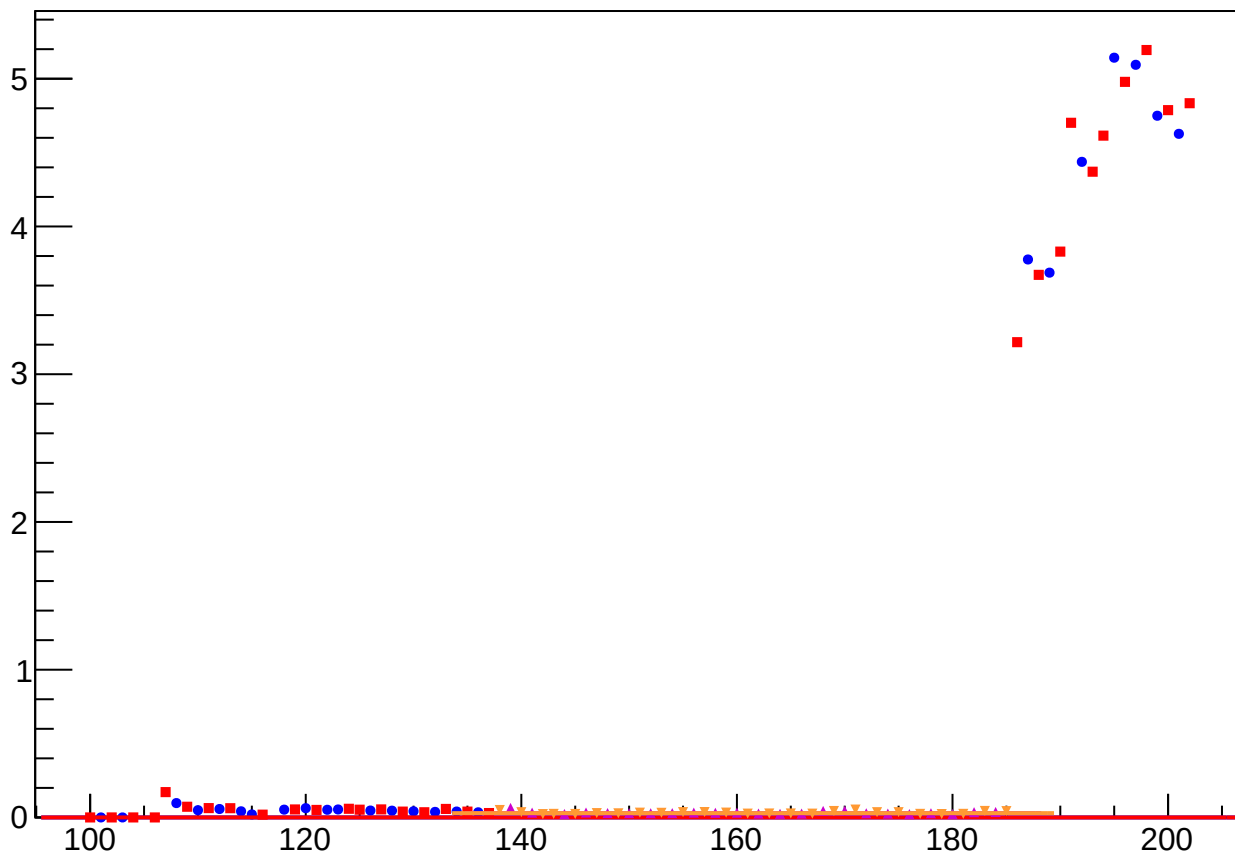
Right: 6.155+/-0.000 χ^2/NDF : 776078797965631.1/47

In: 6.530+/-0.000 χ^2/NDF : 953221740461.9/46

Out: 5.826+/-0.000 χ^2/NDF : 756656783238340.2/50

All: 6.153+/-0.000 χ^2/NDF : 77760216772359.1/94

yield_cav4bX_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 18214419.3/23

Left Out: 0.029+/-0.000 χ^2/NDF :1487017.7/24

Right Out: 0.000+/-0.000 χ^2/NDF : 21781317.4/28

Left In: 0.029+/-0.000 χ^2/NDF :1164030.9/22

Left: 0.029+/-0.000 χ^2/NDF : 2651180.7/47

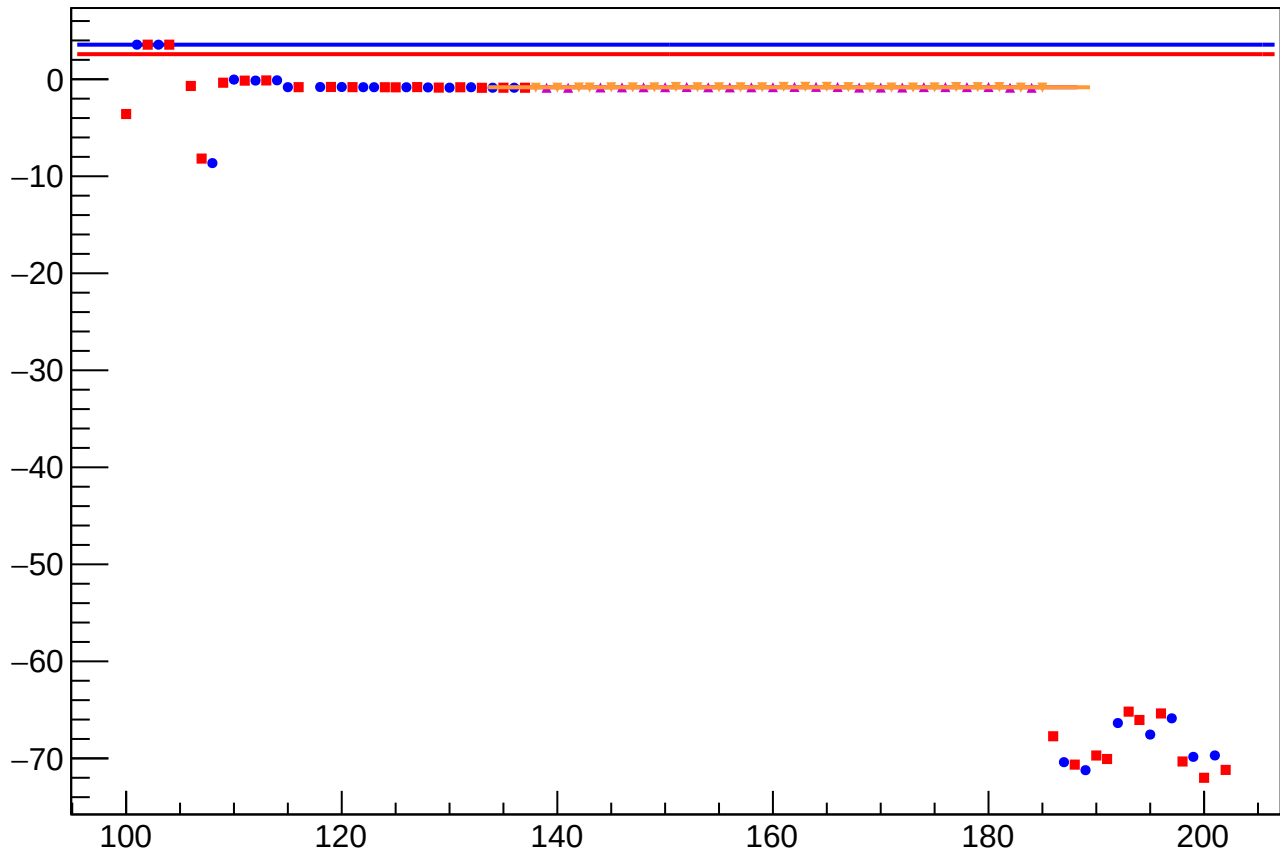
Right: 0.000+/-0.000 χ^2/NDF : 39995986.2/52

In: 0.000+/-0.000 χ^2/NDF :46176100.7/46

Out: 0.000+/-0.000 χ^2/NDF :51656988.0/53

All: 0.000+/-0.000 χ^2/NDF : 97833503.5/100

yield_cav4bY_mean vs Slug, Sign Corrected



Right In: 3.563+/-0.000 χ^2/NDF : 501577090808.0/23

Left Out: -0.828+/-0.000 χ^2/NDF : 168178464.8/24

Right Out: 2.583+/-0.000 χ^2/NDF : 1253527094490735.0/28

Left In: -0.827+/-0.000 χ^2/NDF : 172640246.1/22

Left: -0.827+/-0.000 χ^2/NDF : 340927693.4/47

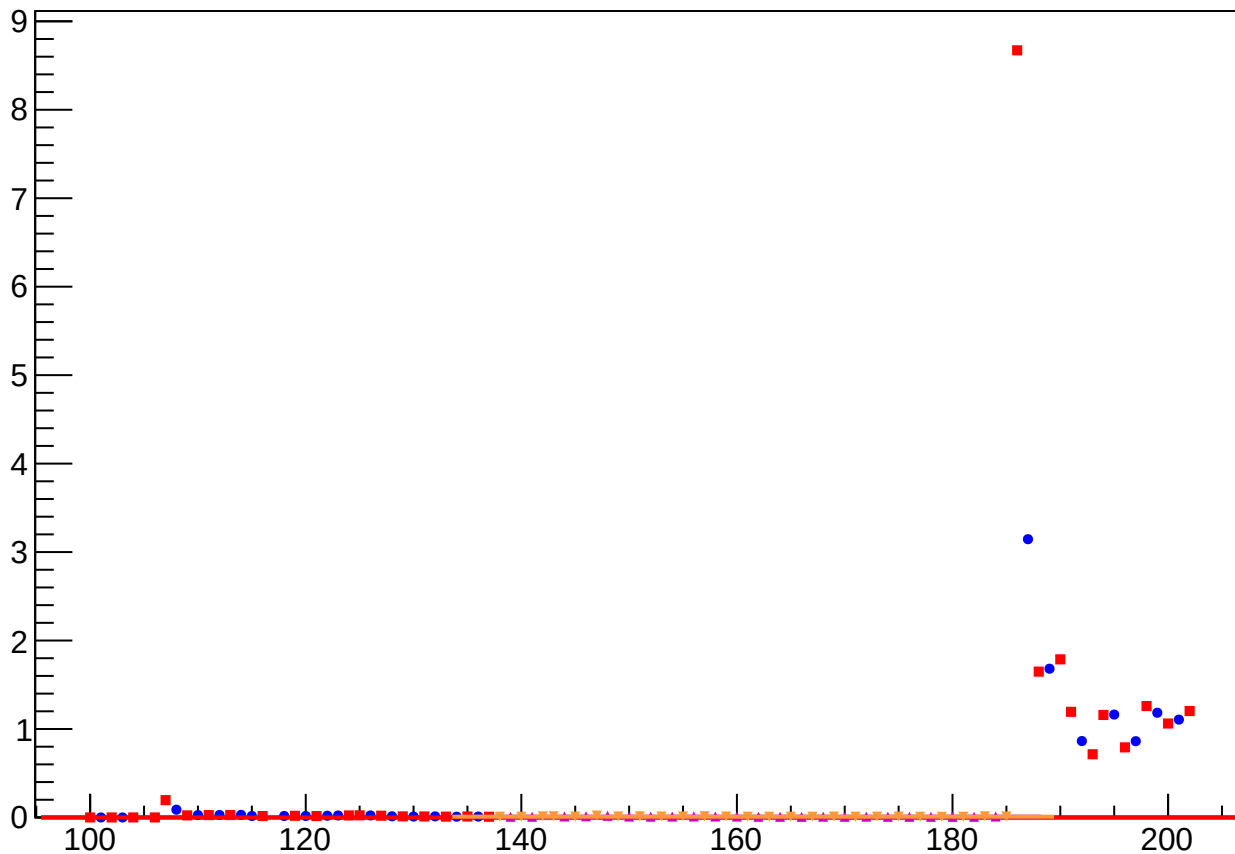
Right: 3.040+/-0.000 χ^2/NDF : 1382299910423060.5

In: 3.560+/-0.000 χ^2/NDF : 4147328975612.0/46

Out: 2.581+/-0.000 χ^2/NDF : 1255749425634962.5

All: 3.038+/-0.000 χ^2/NDF : 13879863830439

yield_cav4bY_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 17238194.2/23

Left Out: 0.009+/-0.000 χ^2/NDF :1454710.9/24

Right Out: 0.000+/-0.000 χ^2/NDF : 20436120.7/28

Left In: 0.009+/-0.000 χ^2/NDF :1041524.9/22

Left: 0.009+/-0.000 χ^2/NDF : 2502231.5/47

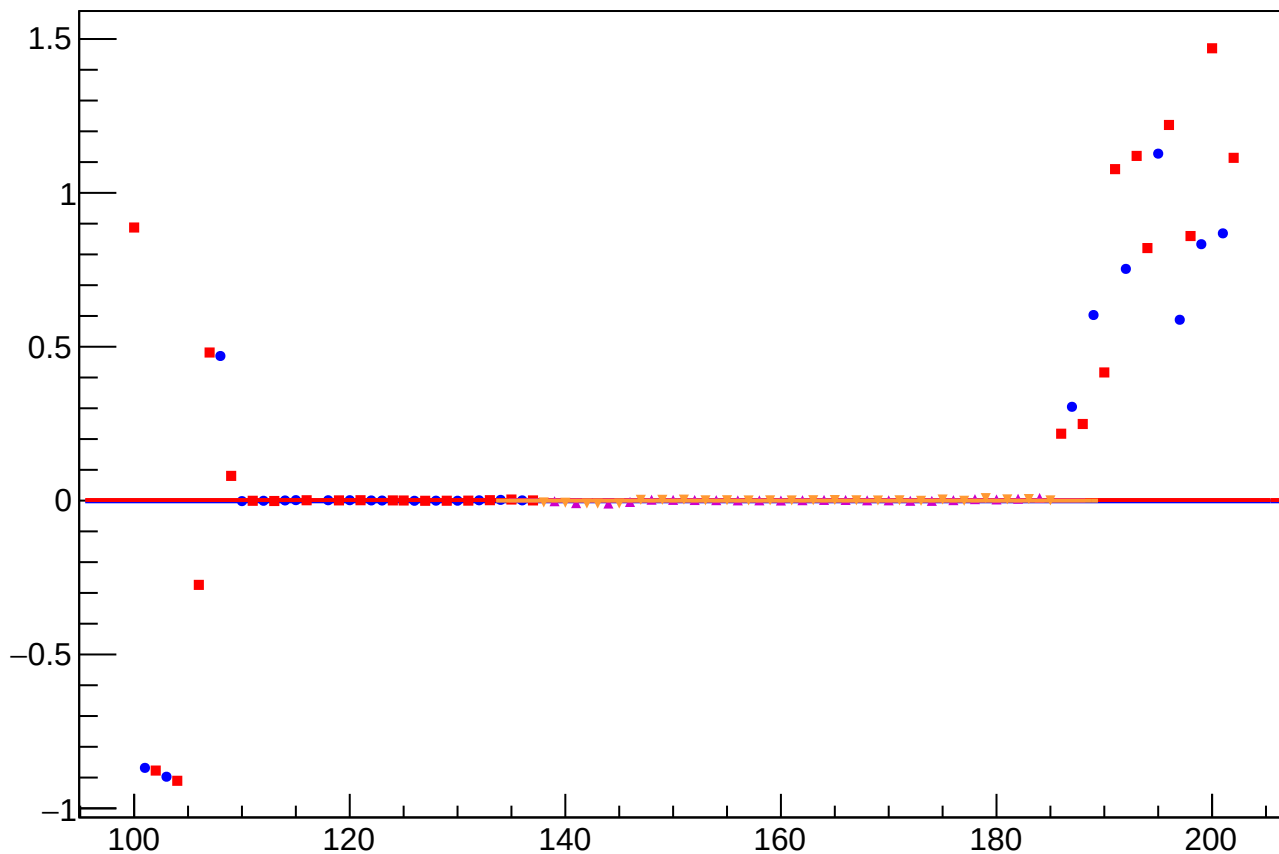
Right: 0.000+/-0.000 χ^2/NDF : 37674594.7/52

In: 0.000+/-0.000 χ^2/NDF :46774260.3/46

Out: 0.000+/-0.000 χ^2/NDF :51854728.2/53

All: 0.000+/-0.000 χ^2/NDF : 98629740.8/100

yield_cav4cX_mean vs Slug, Sign Corrected



Right In: -0.002+/-0.000

χ^2/NDF : 9796471898.9/23

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 : 12853456229.5/52

Right Out: 0.002+/-0.000

χ^2/NDF : 3043214276.9/28

In: -0.000+/-0.000 χ^2/NDF : 9908925793.2/46

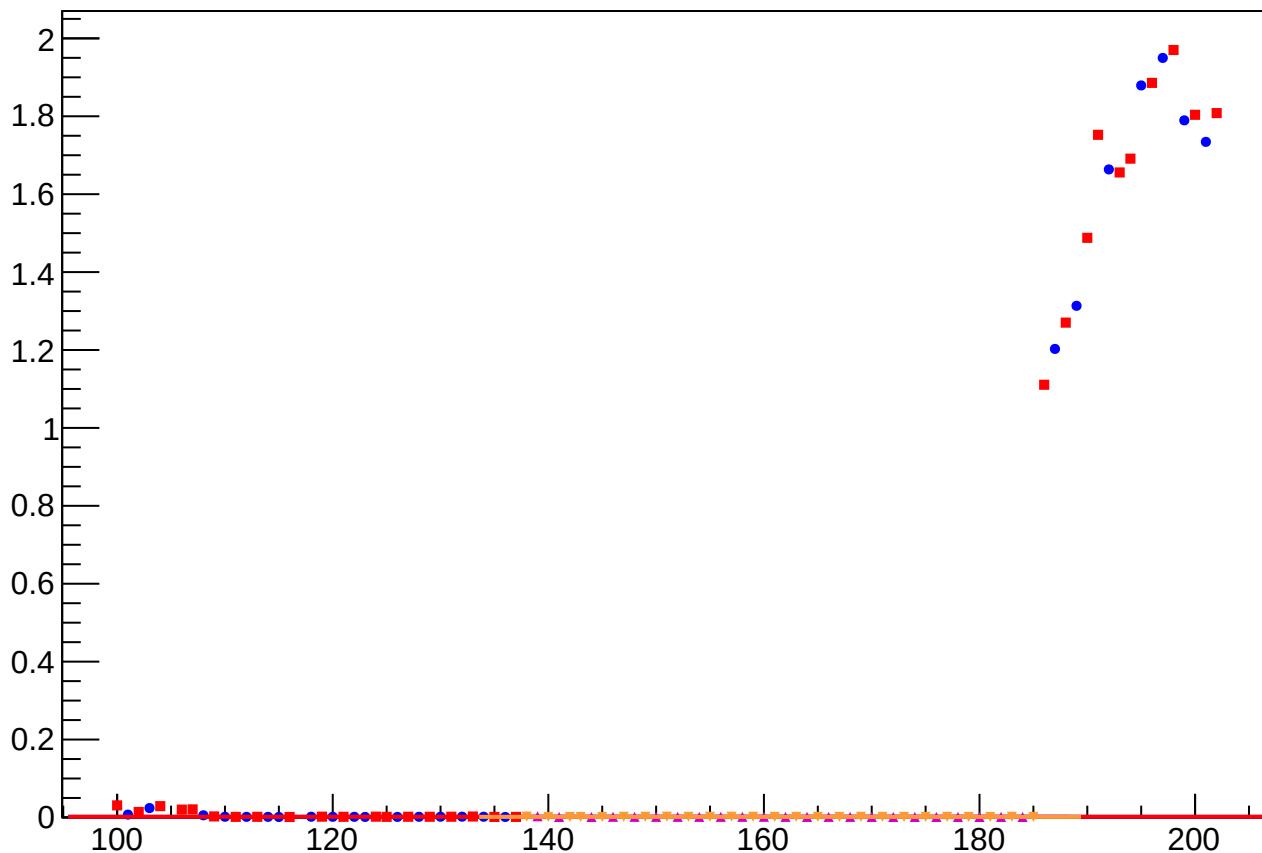
Out: 0.000+/-0.000 χ^2/NDF : 3199429235.0/53

Left In: 0.001+/-0.000

χ^2/NDF : 101439617.3/22

All: 0.000+/-0.000 χ^2/NDF : 13108692139.4/100

yield_cav4cX_rms vs Slug, Sign Corrected



Right In: 0.002 $\pm$ 0.000 χ^2/NDF : 11086861.1/23

Left Out: 0.001 $\pm$ 0.000 χ^2/NDF : 539817.3/24

Right Out: 0.002 $\pm$ 0.000 χ^2/NDF : 15427096.3/28

Left In: 0.001 $\pm$ 0.000 χ^2/NDF : 626044.8/22

Left: 0.001 $\pm$ 0.000 χ^2/NDF : 1169603.9/47

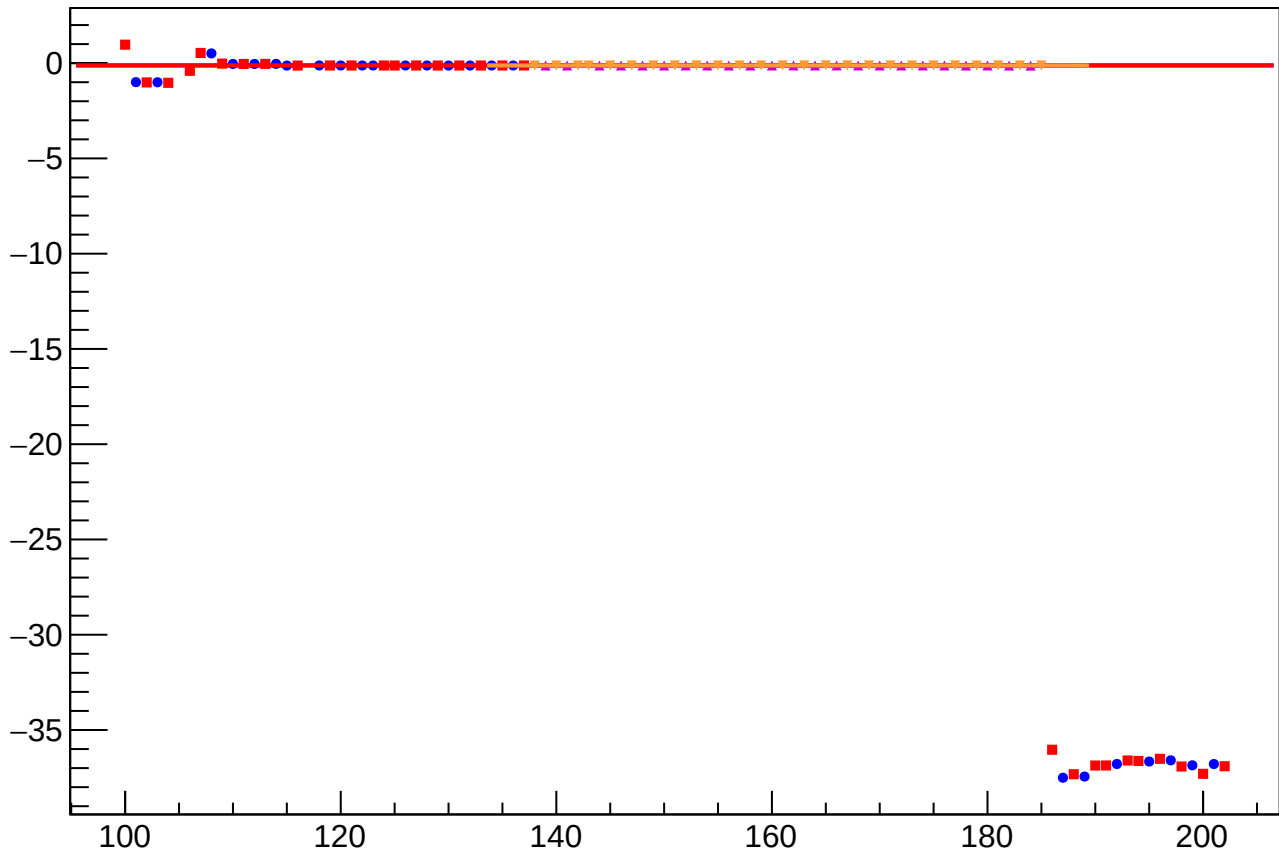
Right: 0.002 $\pm$ 0.000 χ^2/NDF : 26522537.4/52

In: 0.002 $\pm$ 0.000 χ^2/NDF : 11763973.3/46

Out: 0.002 $\pm$ 0.000 χ^2/NDF : 16105265.3/53

All: 0.002 $\pm$ 0.000 χ^2/NDF : 27870137.0/100

yield_cav4cY_mean vs Slug, Sign Corrected



Right In: -0.121+/-0.000 χ^2/NDF : 41967977047.6/23

Left Out: -0.121+/-0.000 χ^2/NDF : 58120109.3/24

Right Out: -0.116+/-0.000 χ^2/NDF : 53046544881.8/28

Left In: -0.121+/-0.000 χ^2/NDF : 52113932.9/22

Left: -0.121+/-0.000 χ^2/NDF : 110482905.6/47

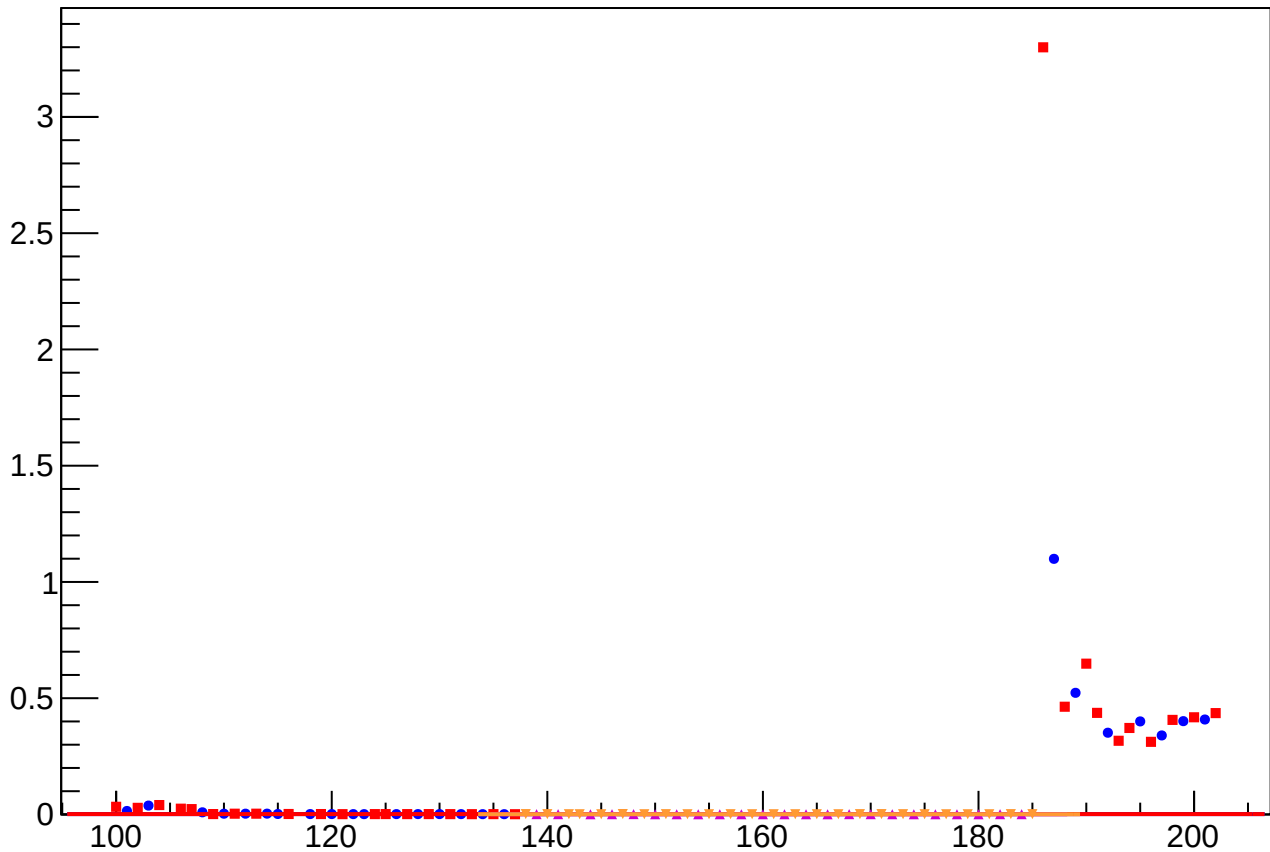
Right: -0.119+/-0.000 χ^2/NDF : 95035944275.2/52

In: -0.121+/-0.000 χ^2/NDF : 42020092317.8/46

Out: -0.121+/-0.000 χ^2/NDF : 53146655243.8/53

All: -0.121+/-0.000 χ^2/NDF : 95167619963.8/100

yield_cav4cY_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 11579438.0/23

Left Out: 0.001+/-0.000 χ^2/NDF :1363316.8/24

Right Out: 0.002+/-0.000 χ^2/NDF : 15429525.8/28

Left In: 0.001+/-0.000 χ^2/NDF :970801.8/22

Left: 0.001+/-0.000 χ^2/NDF : 2335161.7/47

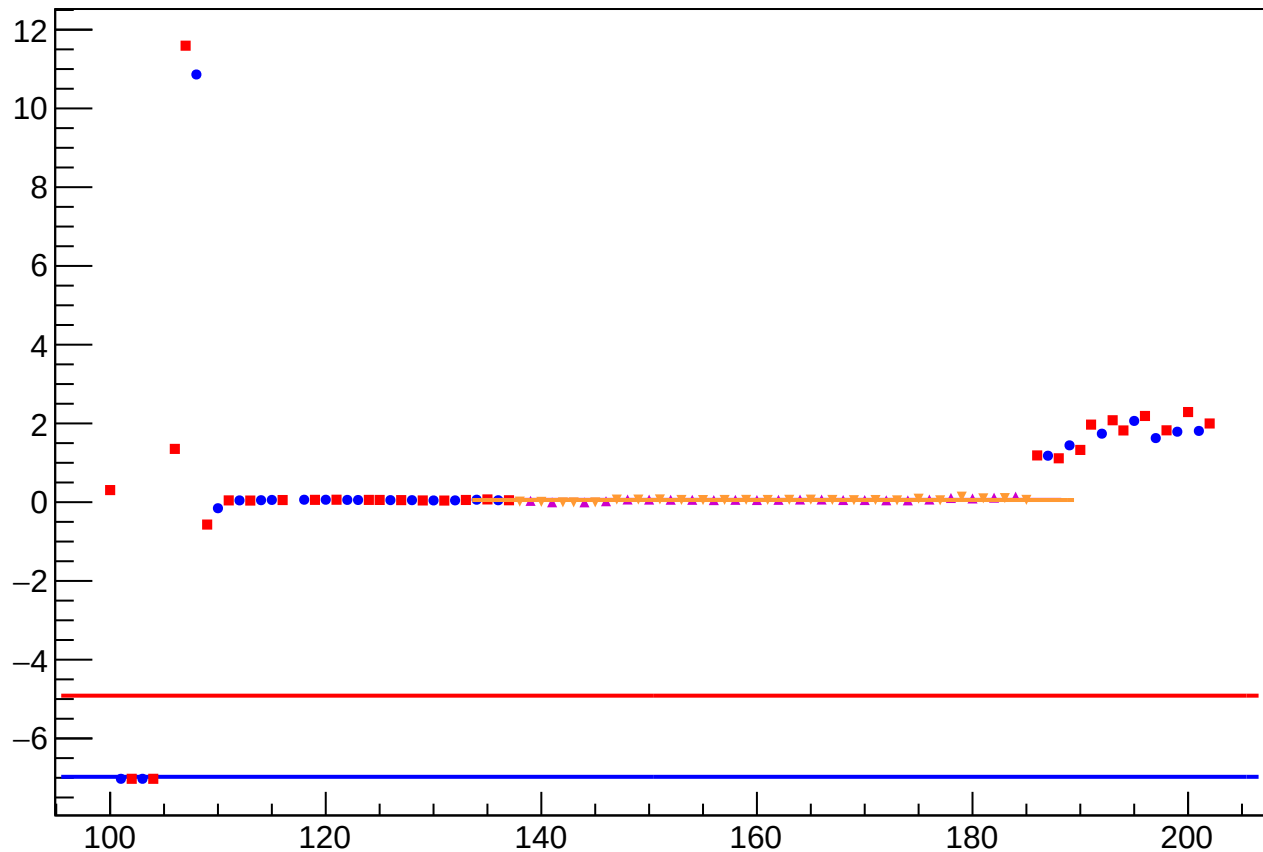
Right: 0.002+/-0.000 χ^2/NDF : 27009048.9/52

In: 0.001+/-0.000 χ^2/NDF :13713130.1/46

Out: 0.001+/-0.000 χ^2/NDF :17966181.7/53

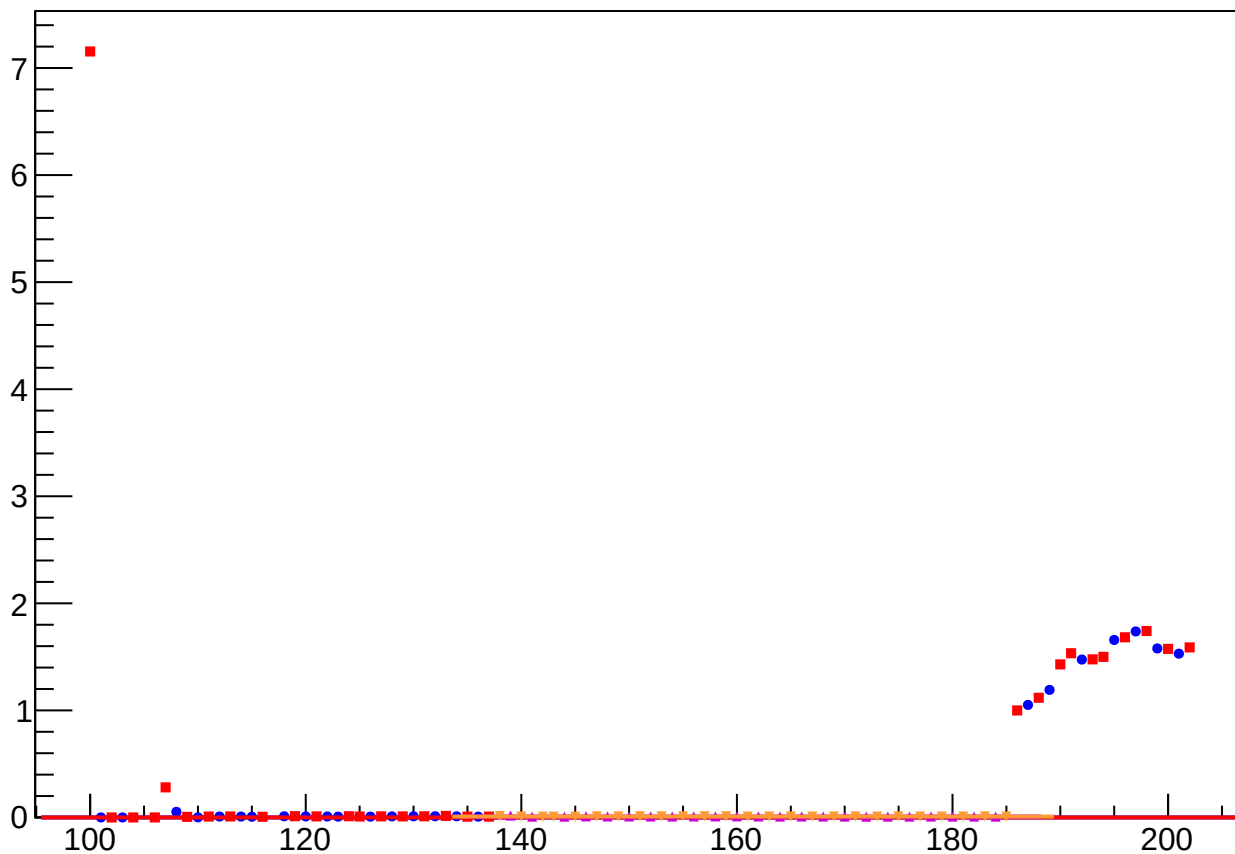
All: 0.001+/-0.000 χ^2/NDF : 31681812.3/100

yield_cav4dX_mean vs Slug, Sign Corrected



Right In: -6.975 ± 0.000 $\chi^2/\text{NDF}: 8797512366090.2/23$ 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 $\chi^2/\text{NDF}: 430333562240209.8$
 Right Out: -4.914 ± 0.000 $\chi^2/\text{NDF}: 365352790672801.2/28$ In: -6.926 ± 0.000 $\chi^2/\text{NDF}: 17553031074391.9/46$
 Left In: 0.059 ± 0.000 $\chi^2/\text{NDF}: 178541521.9/22$ Out: -4.879 ± 0.000 $\chi^2/\text{NDF}: 370165354006961.0/28$
 All: -5.858 ± 0.000 $\chi^2/\text{NDF}: 4435288534561.0/100$

yield_cav4dX_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 17533870.5/23

Left Out: 0.009+/-0.000 χ^2/NDF :514432.8/24

Right Out: 0.000+/-0.000 χ^2/NDF : 21208602.7/28

Left In: 0.009+/-0.000 χ^2/NDF :602517.2/22

Left: 0.009+/-0.000 χ^2/NDF : 1122225.0/47

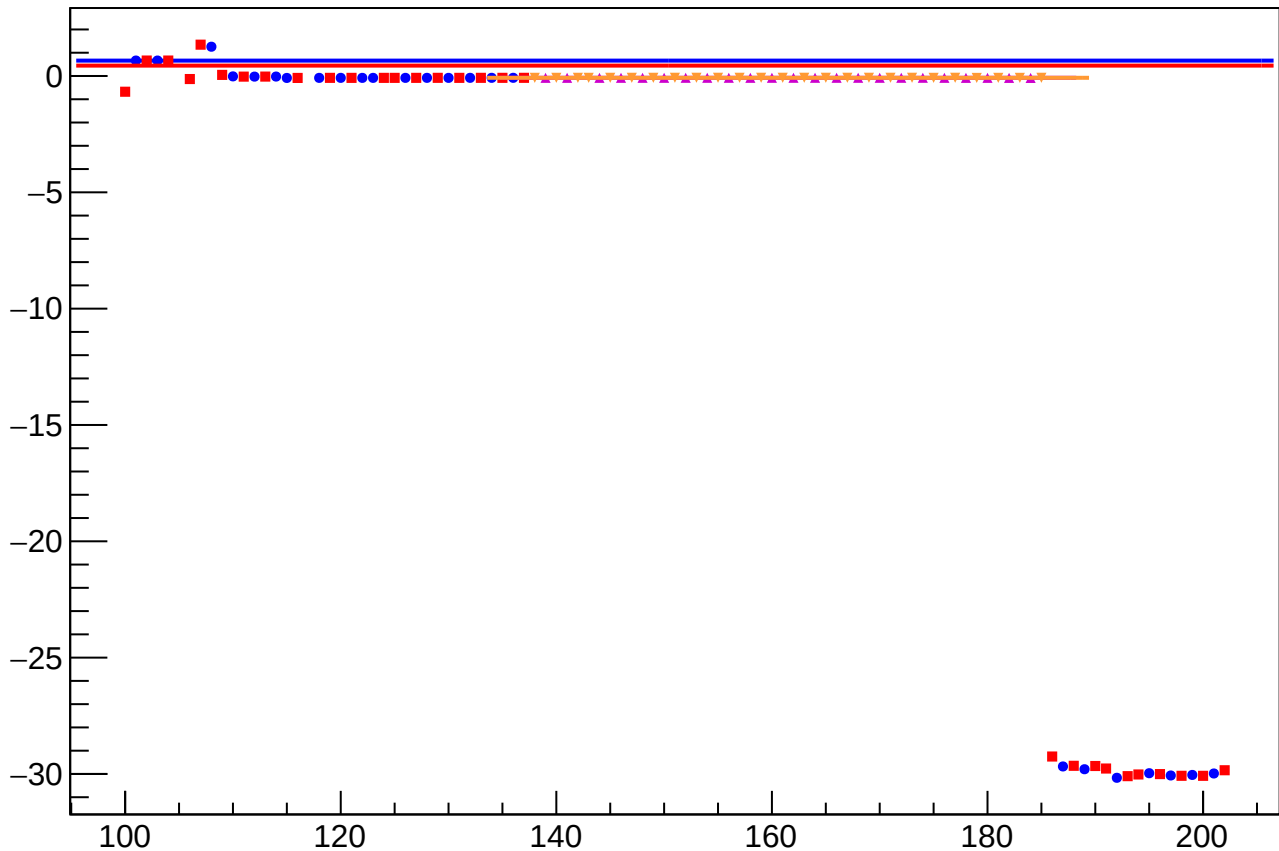
Right: 0.000+/-0.000 χ^2/NDF : 38742817.3/52

In: 0.000+/-0.000 χ^2/NDF :44952109.1/46

Out: 0.000+/-0.000 χ^2/NDF :50152872.6/53

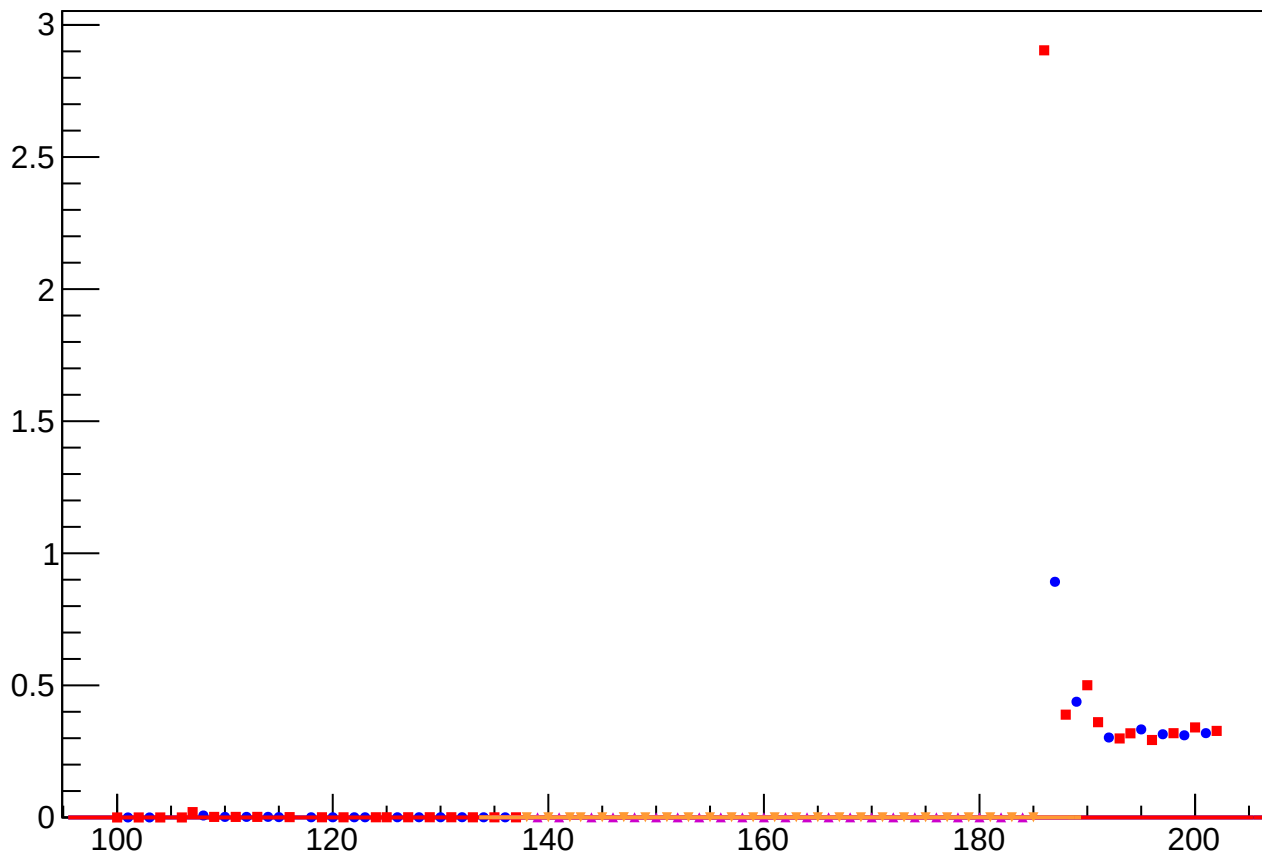
All: 0.000+/-0.000 χ^2/NDF : 95105442.0/100

yield_cav4dY_mean vs Slug, Sign Corrected



Right In: 0.661+/-0.000	χ^2/NDF : 5698245605102.1/23	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 : 474088724940882.2/47
Right Out: 0.446+/-0.000	χ^2/NDF : 405477150424129.6/28	In: 0.647+/-0.000	χ^2/NDF : 33738943230768.6/46
Left In: -0.077+/-0.000	χ^2/NDF : 110762924.1/22	Out: 0.436+/-0.000	χ^2/NDF : 420638236701082.9/50
		All: 0.537+/-0.000	χ^2/NDF : 51593313656326.1/100

yield_cav4dY_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 18985736.7/23

Left Out: 0.001+/-0.000 χ^2/NDF : 465981.8/24

Right Out: 0.000+/-0.000 χ^2/NDF : 21712970.7/28

Left In: 0.001+/-0.000 χ^2/NDF : 355509.7/22

Left: 0.001+/-0.000 χ^2/NDF : 822503.5/47

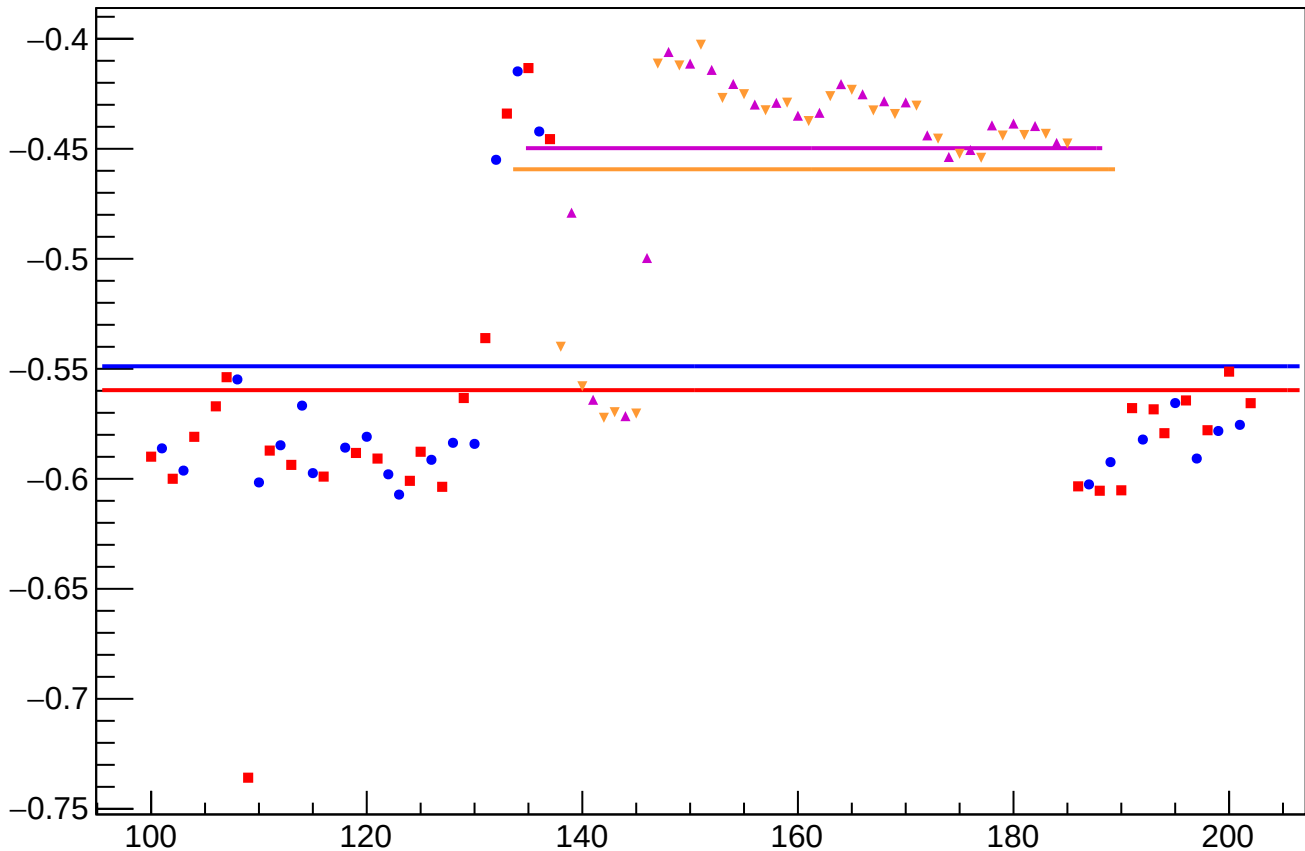
Right: 0.000+/-0.000 χ^2/NDF : 40698722.7/52

In: 0.000+/-0.000 χ^2/NDF : 49718290.3/46

Out: 0.000+/-0.000 χ^2/NDF : 54334274.5/53

All: 0.000+/-0.000 χ^2/NDF : 104052899.0/100

yield_bpm4aX_mean vs Slug, Sign Corrected



Right In: -0.549 $\pm$ 0.000 χ^2 /NDF: 47654559.2/23

Left Out: -0.459 $\pm$ 0.000 χ^2 /NDF: 113602161.0/24

Right Out: -0.560 $\pm$ 0.000 χ^2 /NDF: 65656900.9/28

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

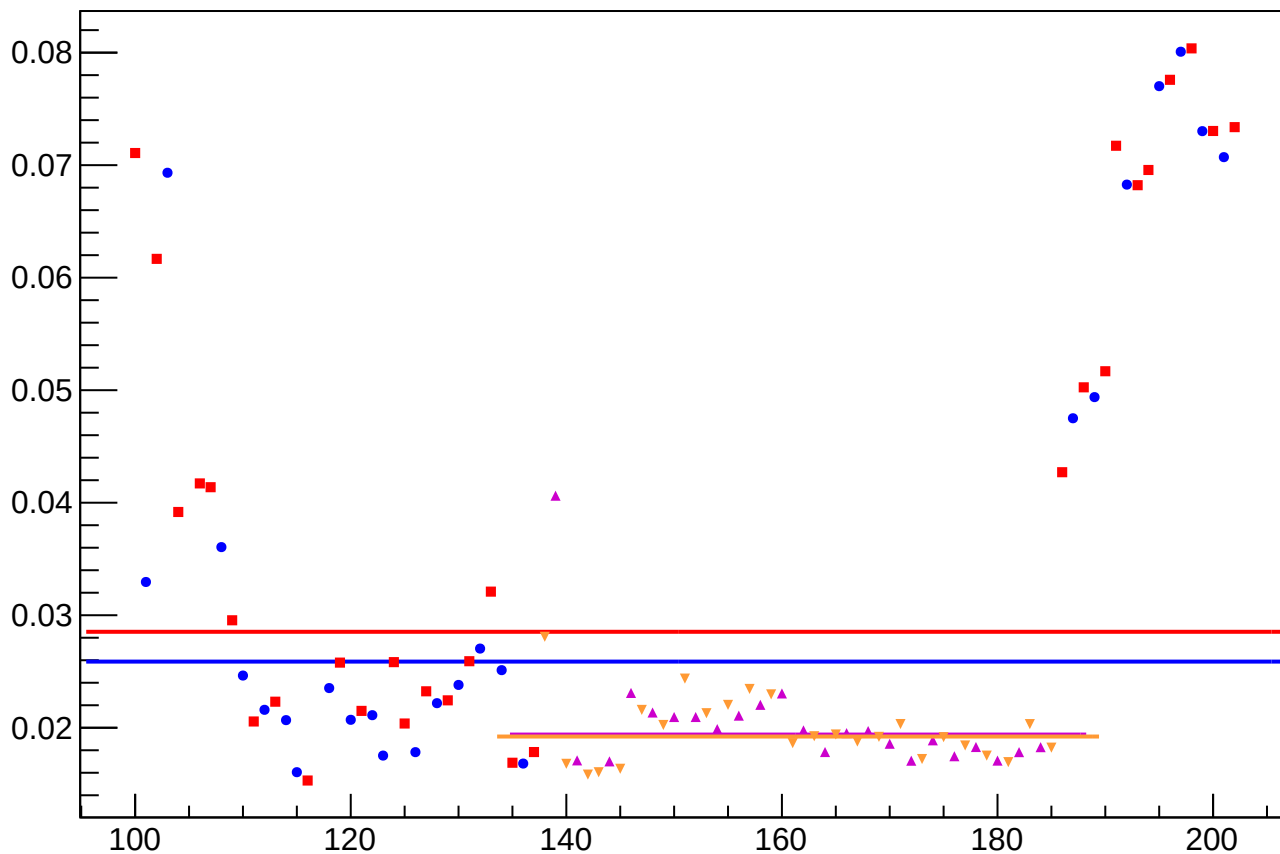
Right: -0.554 $\pm$ 0.000 χ^2 /NDF: 113985693.3/52

In: -0.473 $\pm$ 0.000 χ^2 /NDF: 210181311.7/46

Out: -0.481 $\pm$ 0.000 χ^2 /NDF: 268455750.9/53

All: -0.477 $\pm$ 0.000 χ^2 /NDF: 480322028.2/10

yield_bpm4aX_rms vs Slug, Sign Corrected



Right In: 0.026 $\pm$ 0.000 χ^2 /NDF: 4887818.9/23

Left Out: 0.019 $\pm$ 0.000 χ^2 /NDF:501711.6/24

Right Out: 0.029 $\pm$ 0.000 χ^2 /NDF: 5726389.9/28

Left In: 0.019 $\pm$ 0.000 χ^2 /NDF:626443.5/22

Left: 0.019 $\pm$ 0.000 χ^2 /NDF: 1129330.7/47

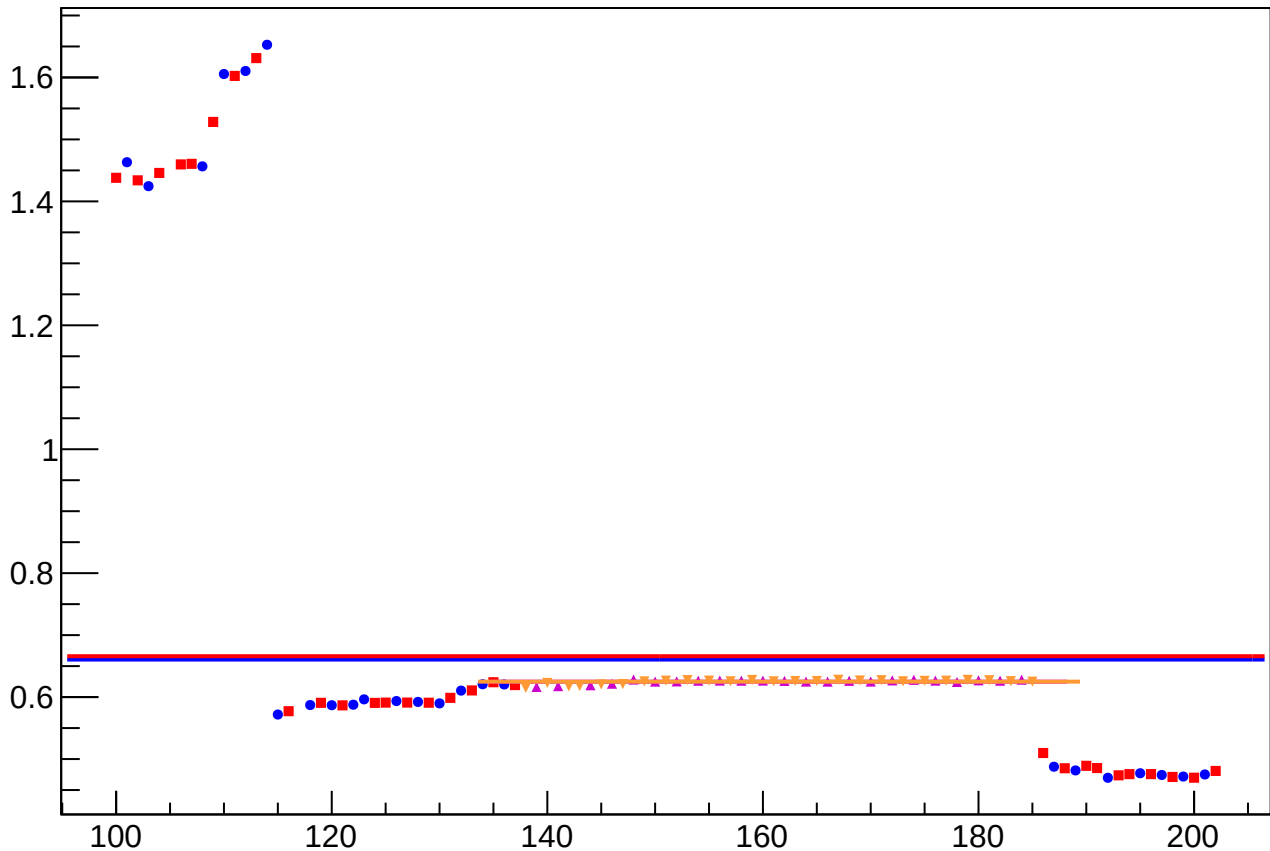
Right: 0.027 $\pm$ 0.000 χ^2 /NDF: 10694475.9/52

In: 0.021 $\pm$ 0.000 χ^2 /NDF:6254030.4/46

Out: 0.021 $\pm$ 0.000 χ^2 /NDF:7761942.0/53

All: 0.021 $\pm$ 0.000 χ^2 /NDF: 14021721.2/100

yield_bpm4aY_mean vs Slug, Sign Corrected



Right In: 0.661+/-0.000 χ^2/NDF : 4726869071.8/23

Left Out: 0.625+/-0.000 χ^2/NDF :1445169.1/24

Right Out: 0.666+/-0.000 χ^2/NDF : 5830911464.5/28

Left In: 0.625+/-0.000 χ^2/NDF :1143954.1/22

Left: 0.625+/-0.000 χ^2/NDF : 2589565.7/47

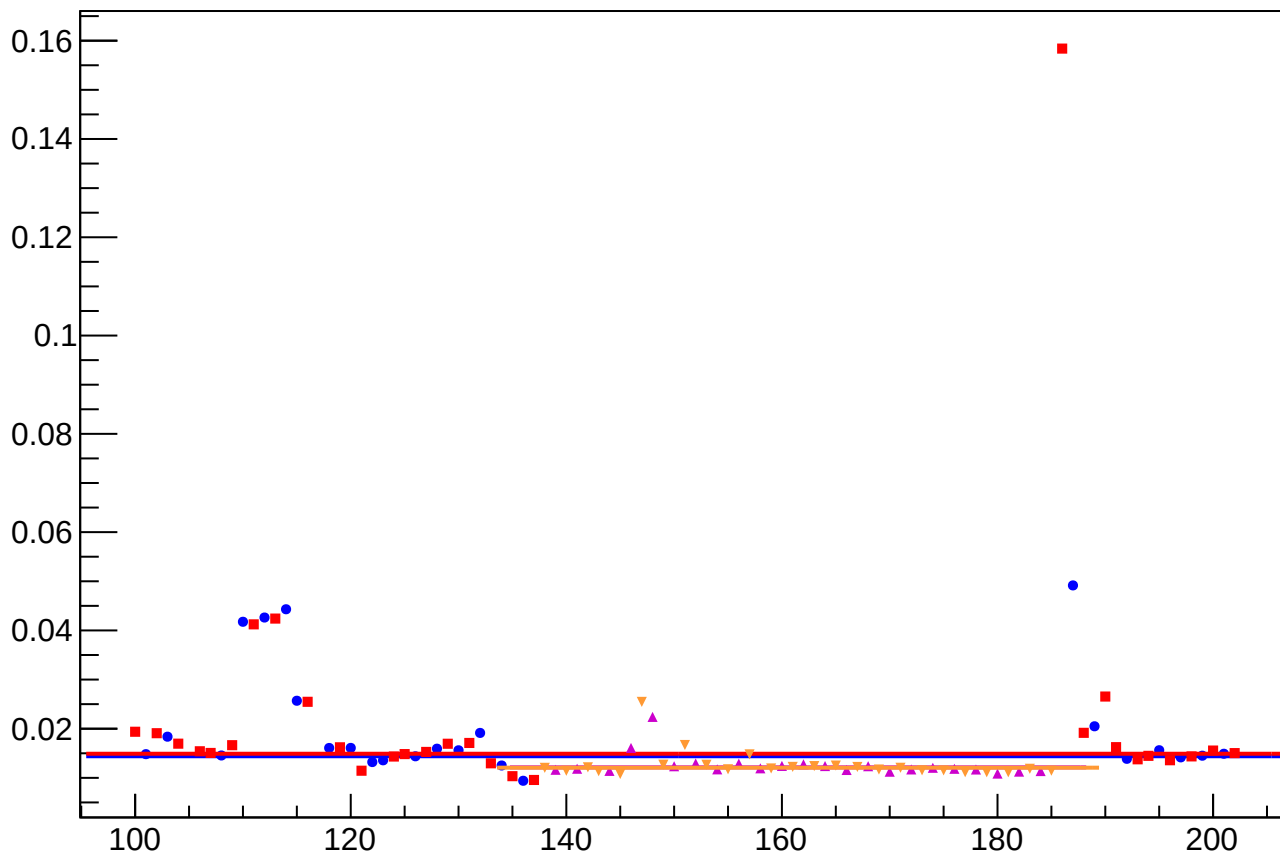
Right: 0.663+/-0.000 χ^2/NDF : 10558500801.9/52

In: 0.636+/-0.000 χ^2/NDF :4771364883.0/46

Out: 0.637+/-0.000 χ^2/NDF :5894056576.8/53

All: 0.636+/-0.000 χ^2/NDF : 10665697187.6/100

yield_bpm4aY_rms vs Slug, Sign Corrected



Right In: 0.014 $\pm$ 0.000 χ^2 /NDF: 1636806.7/23

Left Out: 0.012 $\pm$ 0.000 χ^2 /NDF:657199.9/24

Right Out: 0.015 $\pm$ 0.000 χ^2 /NDF: 2077550.1/28

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

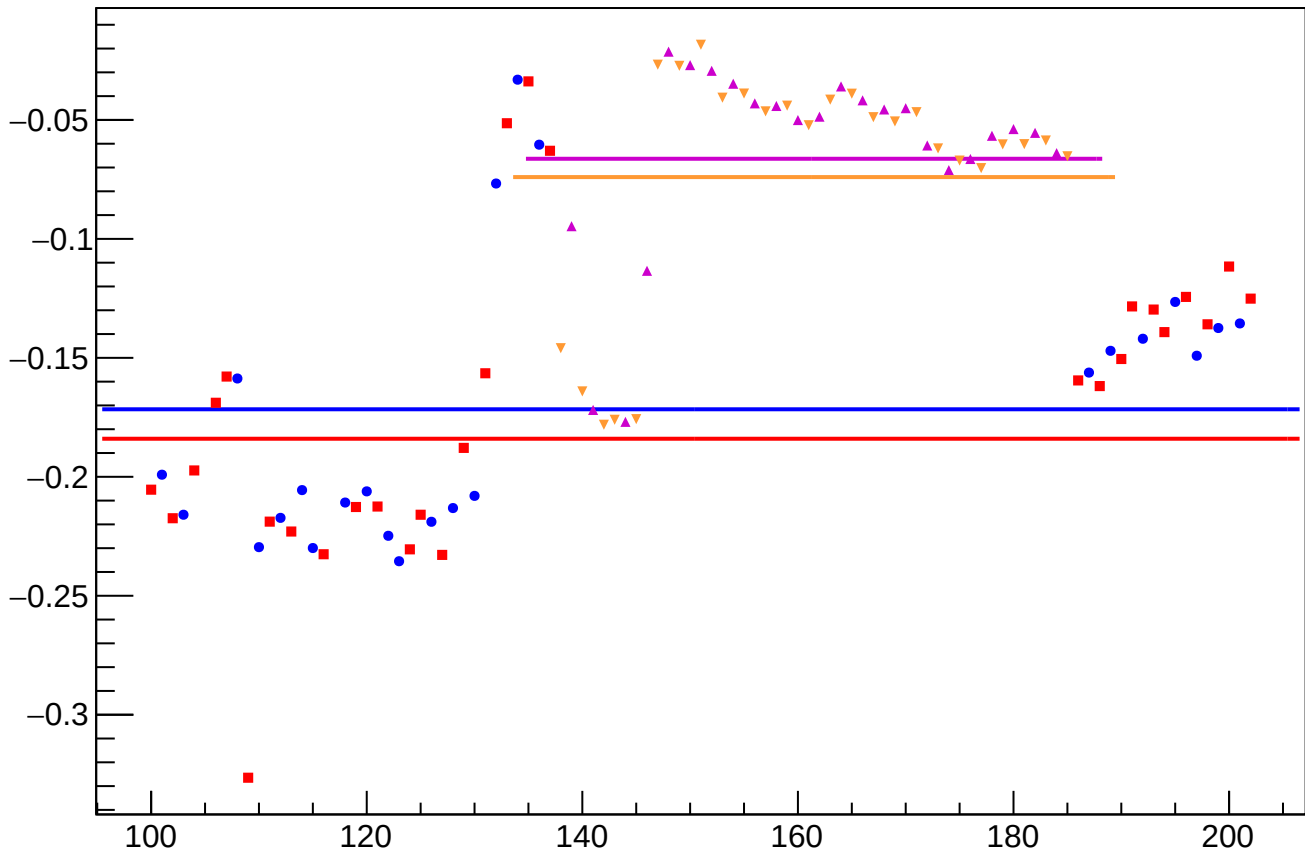
Right: 0.015 $\pm$ 0.000 χ^2 /NDF: 3727246.4/52

In: 0.013 $\pm$ 0.000 χ^2 /NDF:2472392.0/46

Out: 0.013 $\pm$ 0.000 χ^2 /NDF:3323734.7/53

All: 0.013 $\pm$ 0.000 χ^2 /NDF: 5798389.5/100

yield_bpm4eX_mean vs Slug, Sign Corrected



Right In: -0.172 ± 0.000 $\chi^2/\text{NDF}: 67903667.3/23$

Left Out: -0.074 ± 0.000 $\chi^2/\text{NDF}: 107676601.9/24$

Right Out: -0.184 ± 0.000 $\chi^2/\text{NDF}: 85678600.3/28$

Left In: -0.066 ± 0.000 $\chi^2/\text{NDF}: 76243051.8/22$

Left: -0.070 ± 0.000 $\chi^2/\text{NDF}: 185076997.5/47$

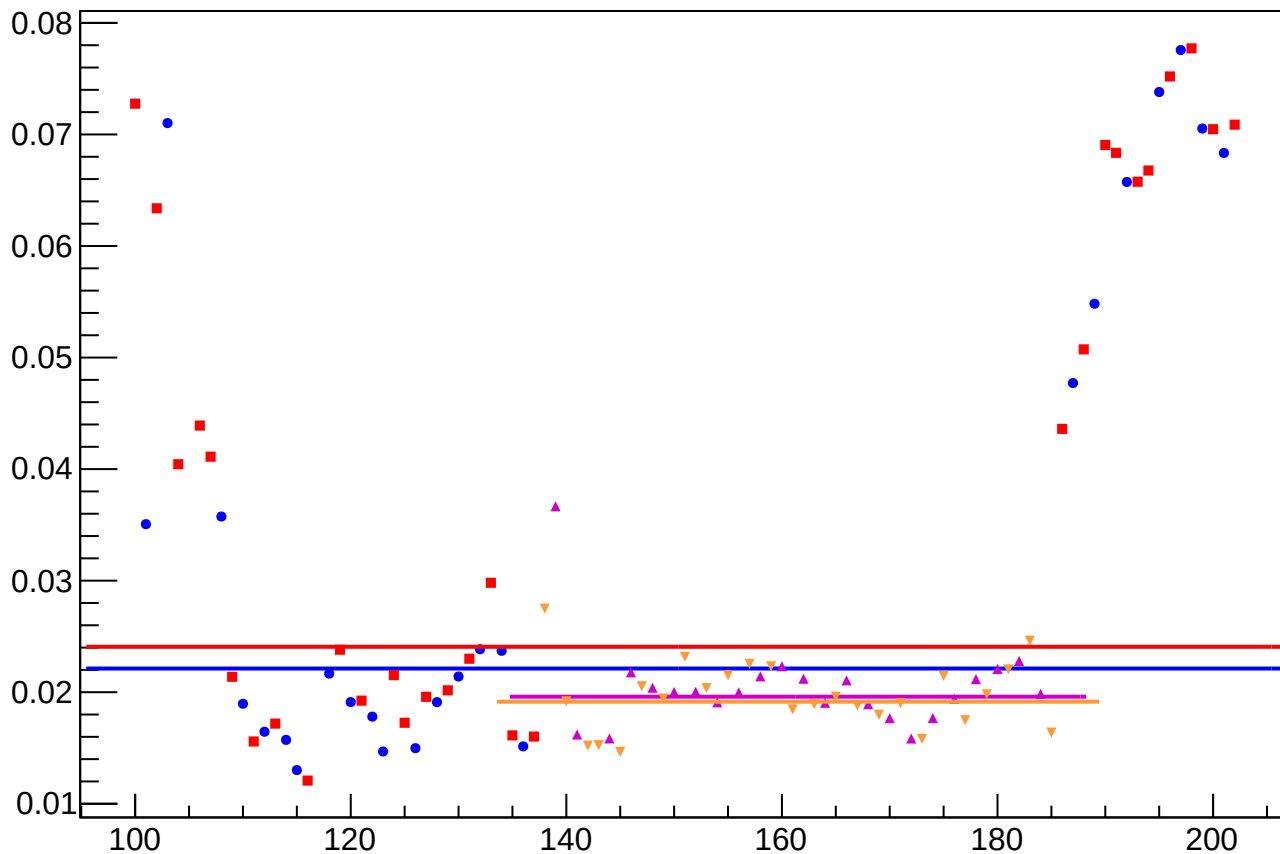
Right: -0.178 ± 0.000 $\chi^2/\text{NDF}: 154730063.0/52$

In: -0.097 ± 0.000 $\chi^2/\text{NDF}: 262750010.6/46$

Out: -0.103 ± 0.000 $\chi^2/\text{NDF}: 325816162.5/53$

All: -0.100 ± 0.000 $\chi^2/\text{NDF}: 589761897.6/100$

yield_bpm4eX_rms vs Slug, Sign Corrected



Right In: 0.022 $\pm$ 0.000 χ^2 /NDF: 5686805.4/23

Left Out: 0.019 $\pm$ 0.000 χ^2 /NDF:641277.0/24

Right Out: 0.024 $\pm$ 0.000 χ^2 /NDF: 6954207.3/28

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

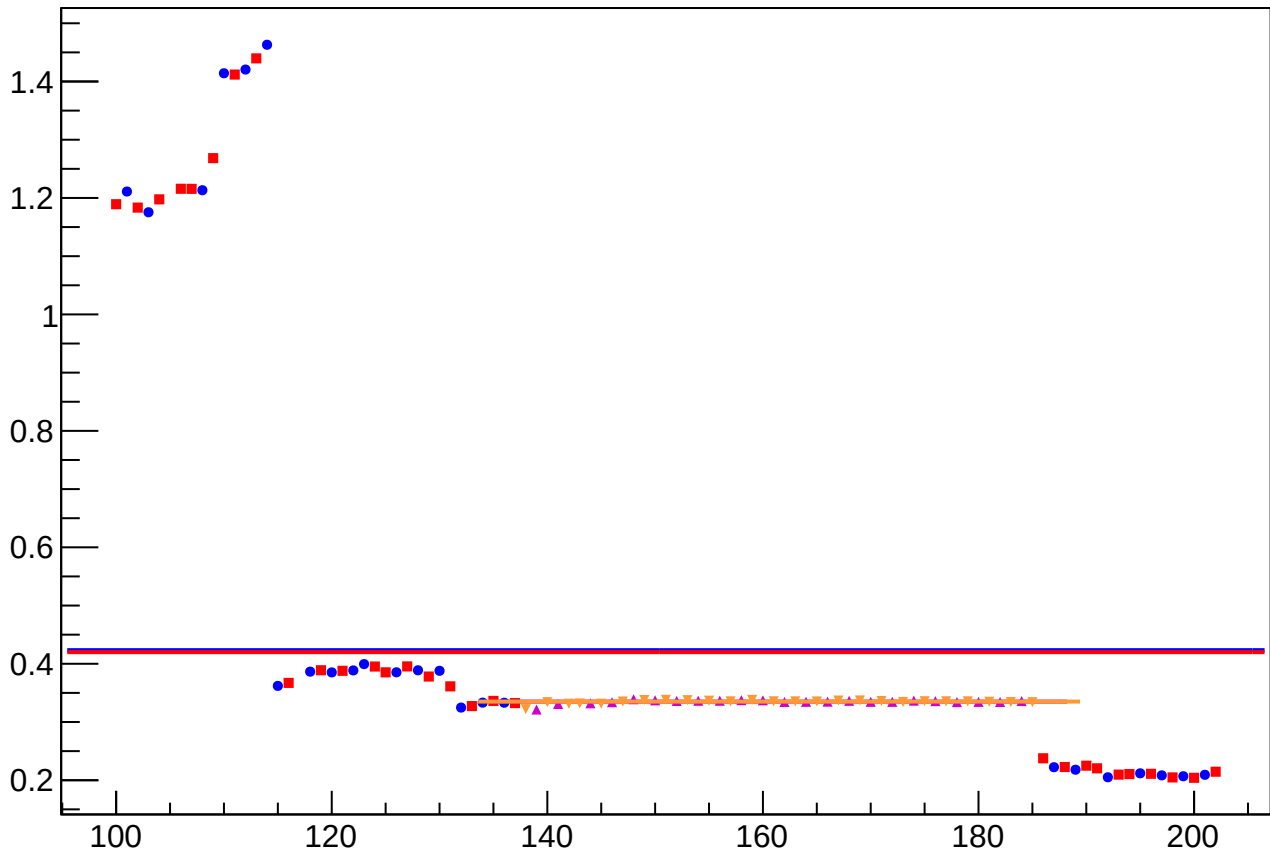
Right: 0.023 $\pm$ 0.000 χ^2 /NDF: 12697929.2/52

In: 0.020 $\pm$ 0.000 χ^2 /NDF:6446351.6/46

Out: 0.020 $\pm$ 0.000 χ^2 /NDF:8126121.2/53

All: 0.020 $\pm$ 0.000 χ^2 /NDF: 14573469.9/100

yield_bpm4eY_mean vs Slug, Sign Corrected



Right In: 0.423+/-0.000 χ^2/NDF : 6956749488.4/23

Left Out: 0.335+/-0.000 χ^2/NDF :1154310.3/24

Right Out: 0.420+/-0.000 χ^2/NDF : 8222363921.7/28

Left In: 0.335+/-0.000 χ^2/NDF :1202194.8/22

Left: 0.335+/-0.000 χ^2/NDF : 2356931.1/47

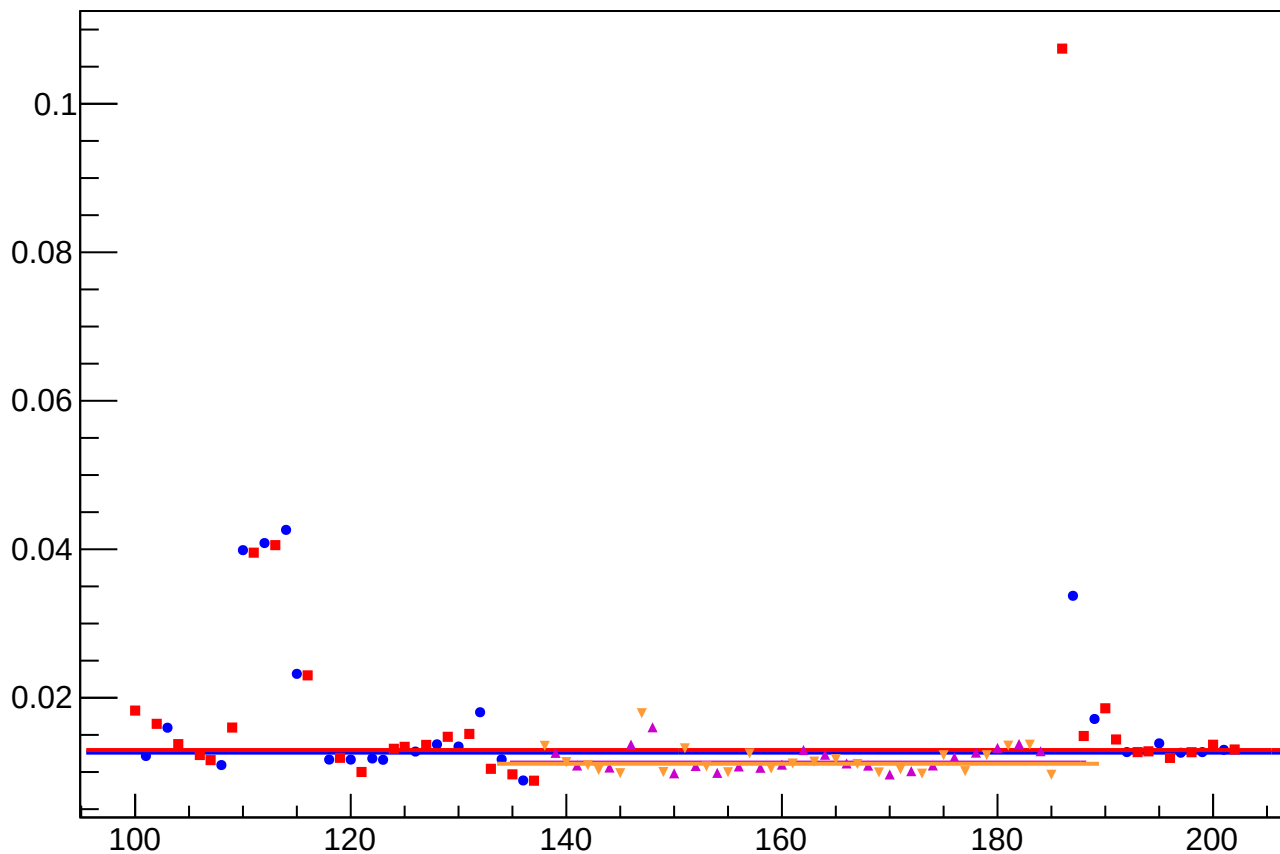
Right: 0.422+/-0.000 χ^2/NDF : 15179504084.1/52

In: 0.364+/-0.000 χ^2/NDF :7290454292.5/46

Out: 0.363+/-0.000 χ^2/NDF :8559088525.9/53

All: 0.364+/-0.000 χ^2/NDF : 15849633568.5/100

yield_bpm4eY_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 1508600.6/23

Left Out: 0.011+/-0.000 χ^2/NDF : 607532.0/24

Right Out: 0.013+/-0.000 χ^2/NDF : 1937338.0/28

Left In: 0.011+/-0.000 χ^2/NDF : 502455.5/22

Left: 0.011+/-0.000 χ^2/NDF : 1113465.5/47

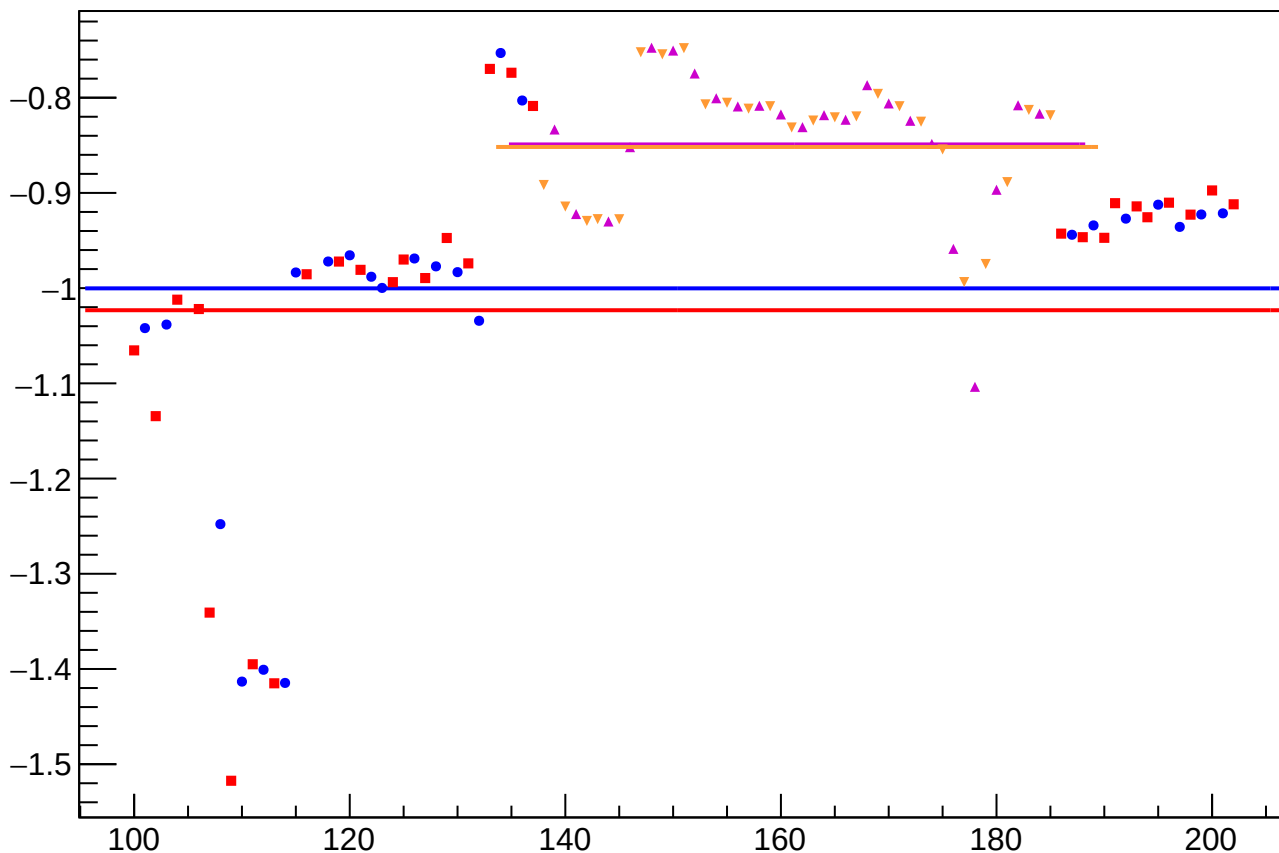
Right: 0.013+/-0.000 χ^2/NDF : 3454048.8/52

In: 0.012+/-0.000 χ^2/NDF : 2163669.9/46

Out: 0.012+/-0.000 χ^2/NDF : 2863443.9/53

All: 0.012+/-0.000 χ^2/NDF : 5027132.8/100

yield_bpm4acX_mean vs Slug, Sign Corrected



Right In: -1.000 $\pm$ 0.000 χ^2/NDF : 399841432.0/23

Left Out: -0.852 $\pm$ 0.000 χ^2/NDF : 189103962.4/24

Right Out: -1.023 $\pm$ 0.000 χ^2/NDF : 553151659.3/28

Left In: -0.849 $\pm$ 0.000 χ^2/NDF : 256391274.4/22

Left: -0.850 $\pm$ 0.000 χ^2/NDF : 445636655.2/47

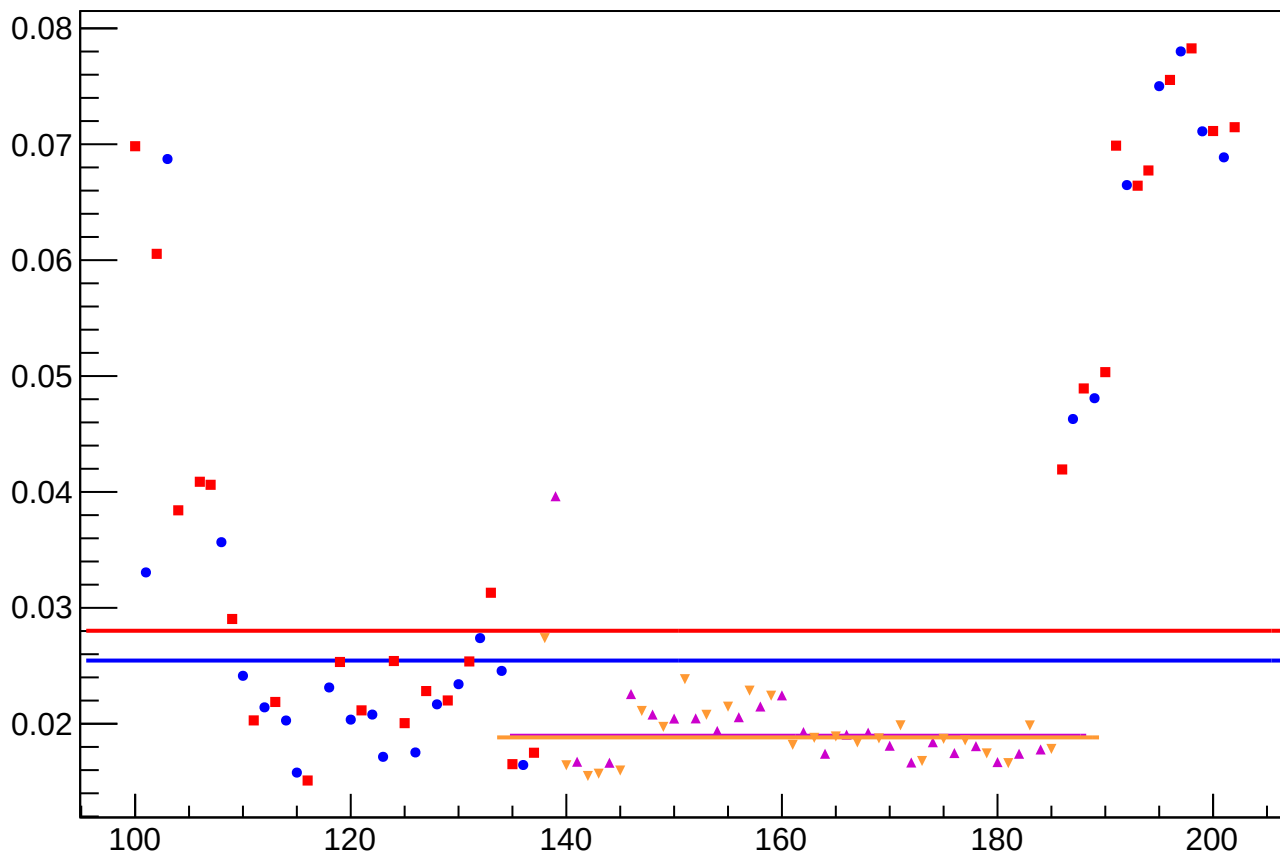
Right: -1.012 $\pm$ 0.000 χ^2/NDF : 956119822.6/52

In: -0.885 $\pm$ 0.000 χ^2/NDF : 864725104.4/46

Out: -0.889 $\pm$ 0.000 χ^2/NDF : 1012484301.6/53

All: -0.887 $\pm$ 0.000 χ^2/NDF : 1877801618.4/100

yield_bpm4acX_rms vs Slug, Sign Corrected



Right In: 0.025+/-0.000 χ^2/NDF : 4873423.7/23

Left Out: 0.019+/-0.000 χ^2/NDF : 490509.4/24

Right Out: 0.028+/-0.000 χ^2/NDF : 5676213.5/28

Left In: 0.019+/-0.000 χ^2/NDF : 615173.8/22

Left: 0.019+/-0.000 χ^2/NDF : 1106521.0/47

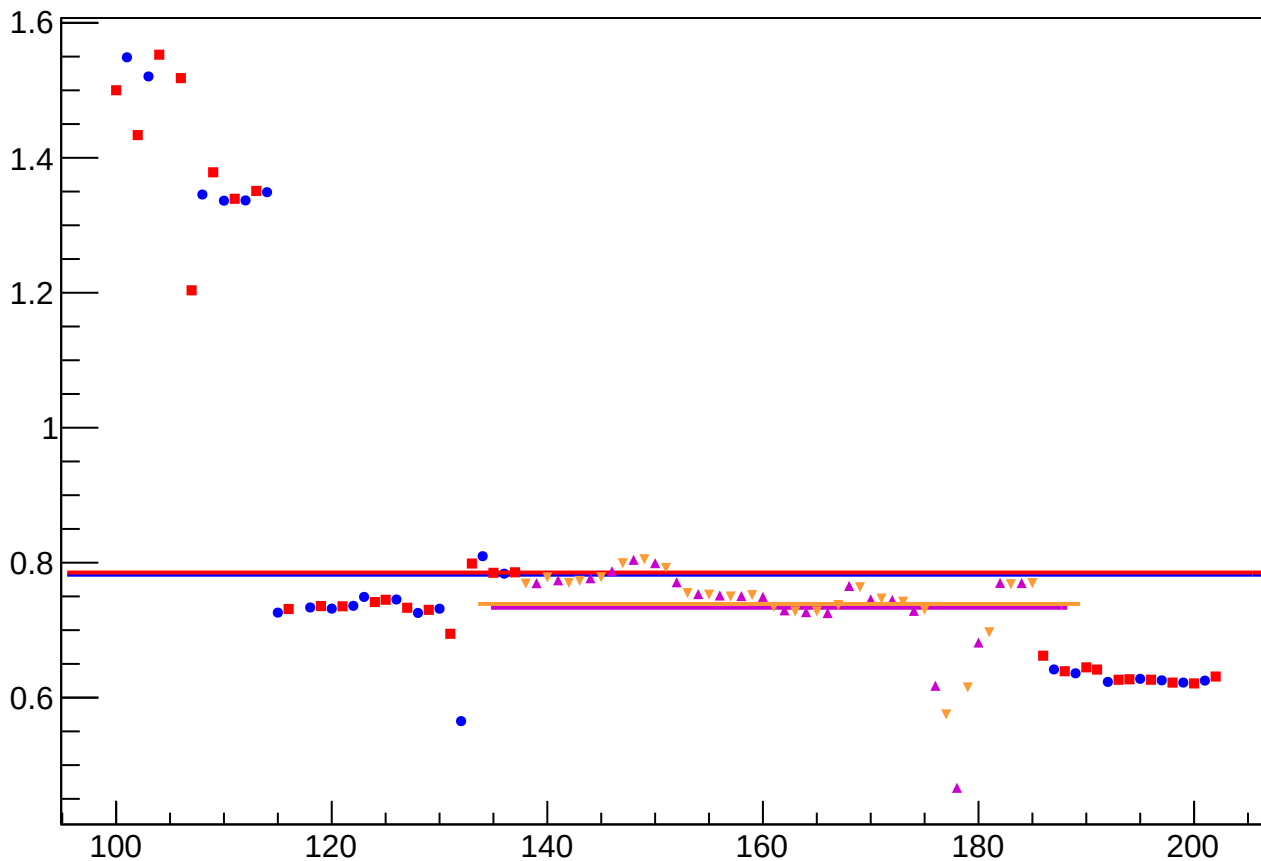
Right: 0.027+/-0.000 χ^2/NDF : 10627993.4/52

In: 0.020+/-0.000 χ^2/NDF : 6256381.5/46

Out: 0.021+/-0.000 χ^2/NDF : 7722946.3/53

All: 0.021+/-0.000 χ^2/NDF : 13985769.0/100

yield_bpm4acY_mean vs Slug, Sign Corrected



Right In: 0.782 $\pm$ 0.000 χ^2 /NDF: 3233545959.3/23

Left Out: 0.739 $\pm$ 0.000 χ^2 /NDF: 333013236.5/24

Right Out: 0.785 $\pm$ 0.000 χ^2 /NDF: 3608460142.2/28

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

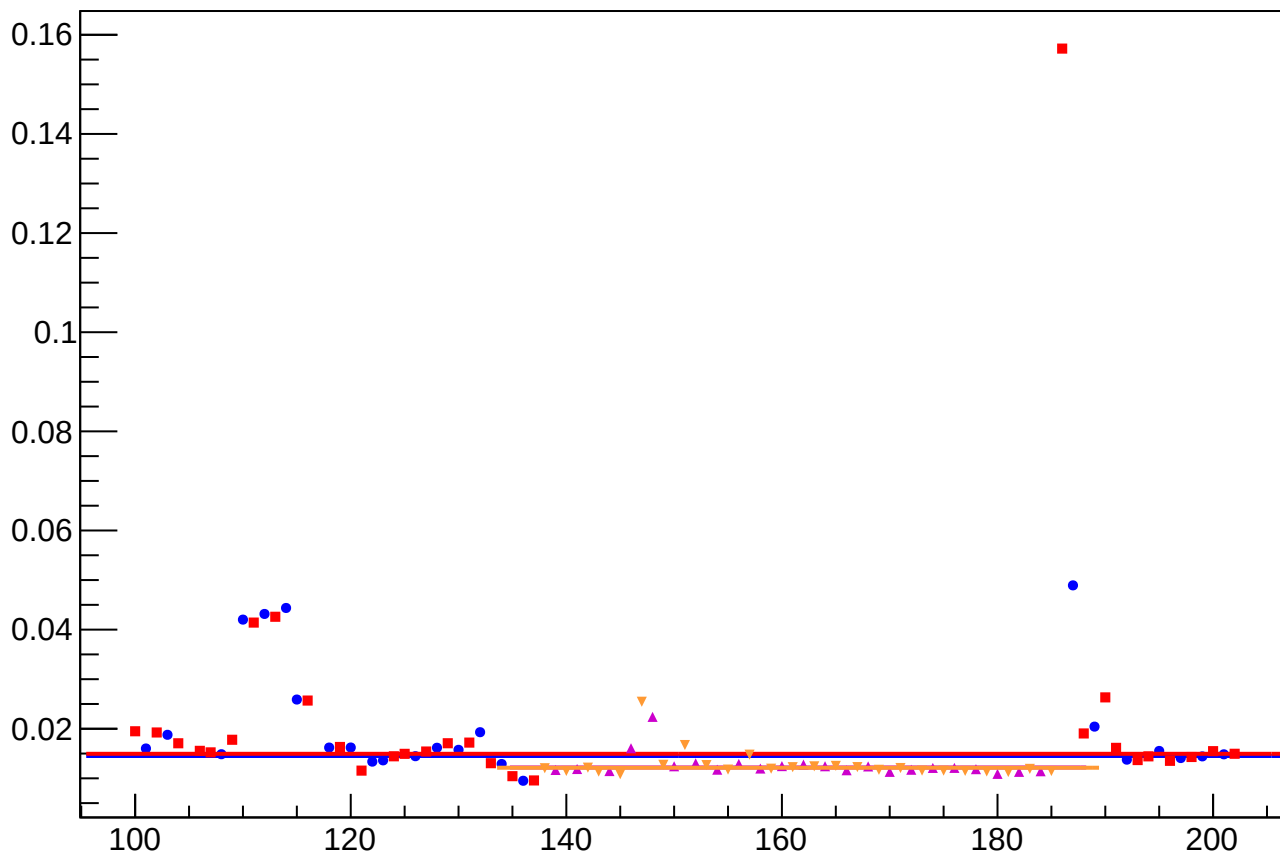
Right: 0.784 $\pm$ 0.000 χ^2 /NDF: 6842258804.9/52

In: 0.748 $\pm$ 0.000 χ^2 /NDF: 3883199267.6/46

Out: 0.753 $\pm$ 0.000 χ^2 /NDF: 4020130658.9/53

All: 0.750 $\pm$ 0.000 χ^2 /NDF: 7905581118.0/100

yield_bpm4acY_rms vs Slug, Sign Corrected



Right In: 0.015+/-0.000 χ^2/NDF : 1636667.8/23

Left Out: 0.012+/-0.000 χ^2/NDF : 637986.2/24

Right Out: 0.015+/-0.000 χ^2/NDF : 2080578.2/28

Left In: 0.012+/-0.000 χ^2/NDF : 481830.1/22

Left: 0.012+/-0.000 χ^2/NDF : 1120125.6/47

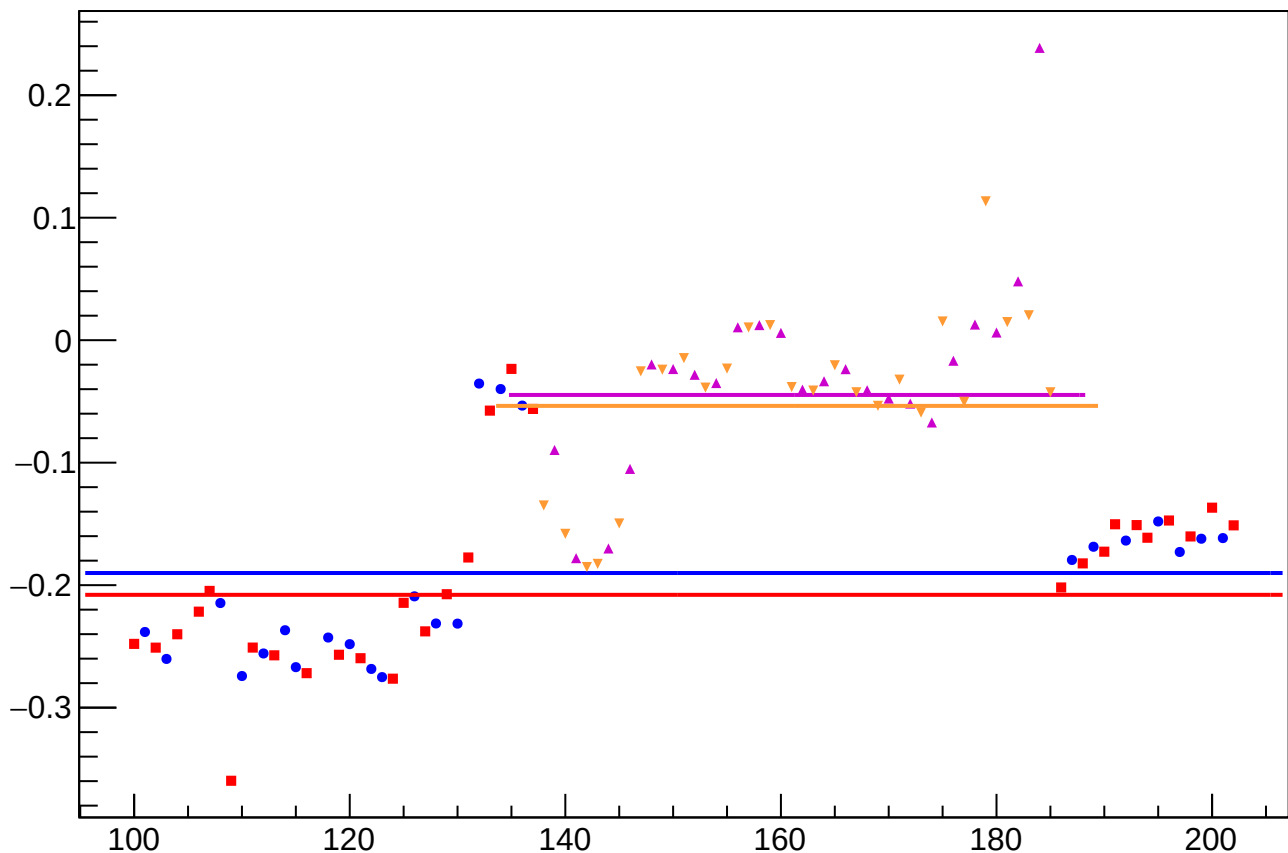
Right: 0.015+/-0.000 χ^2/NDF : 3726778.7/52

In: 0.013+/-0.000 χ^2/NDF : 2477198.4/46

Out: 0.013+/-0.000 χ^2/NDF : 3291268.1/53

All: 0.013+/-0.000 χ^2/NDF : 5770572.6/100

yield_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -0.190 $\pm$ 0.000 χ^2 /NDF: 107014886.4/23

Left Out: -0.054 $\pm$ 0.000 χ^2 /NDF: 167834173.6/24

Right Out: -0.208 $\pm$ 0.000 χ^2 /NDF: 114145684.6/28

Left In: -0.045 $\pm$ 0.000 χ^2 /NDF: 127192425.2/22

Left: -0.049 $\pm$ 0.000 χ^2 /NDF: 296566503.6/47

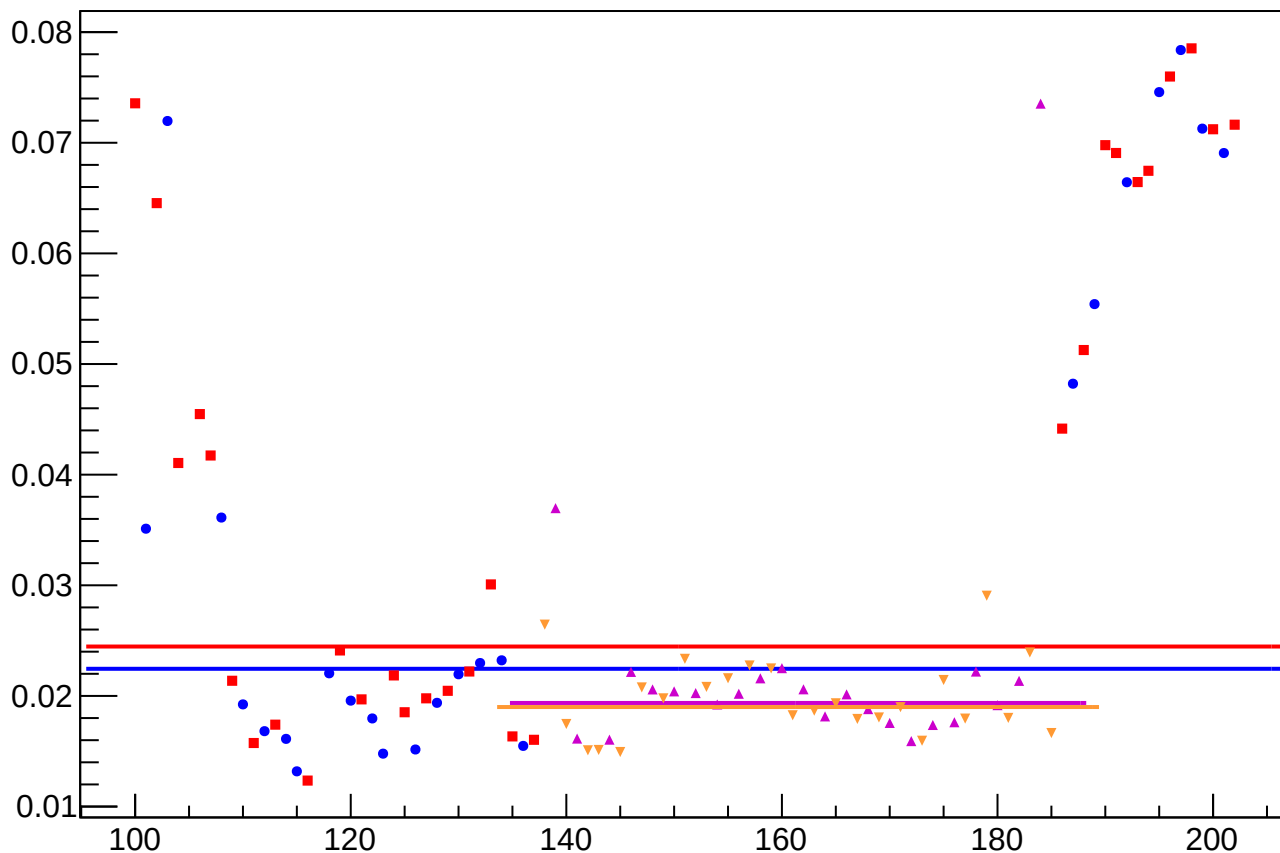
Right: -0.199 $\pm$ 0.000 χ^2 /NDF: 223469507.0/52

In: -0.086 $\pm$ 0.000 χ^2 /NDF: 455535485.7/46

Out: -0.094 $\pm$ 0.000 χ^2 /NDF: 535519113.0/53

All: -0.090 $\pm$ 0.000 χ^2 /NDF: 992894358.5/10

yield_bpm4ecX_rms vs Slug, Sign Corrected



Right In: 0.022 ± 0.000 $\chi^2/\text{NDF}: 5641510.1/23$

Left Out: 0.019 ± 0.000 $\chi^2/\text{NDF}: 700229.7/24$

Right Out: 0.024 ± 0.000 $\chi^2/\text{NDF}: 6915792.6/28$

Left In: 0.019 ± 0.000 $\chi^2/\text{NDF}: 858216.8/22$

Left: 0.019 ± 0.000 $\chi^2/\text{NDF}: 1563699.1/47$

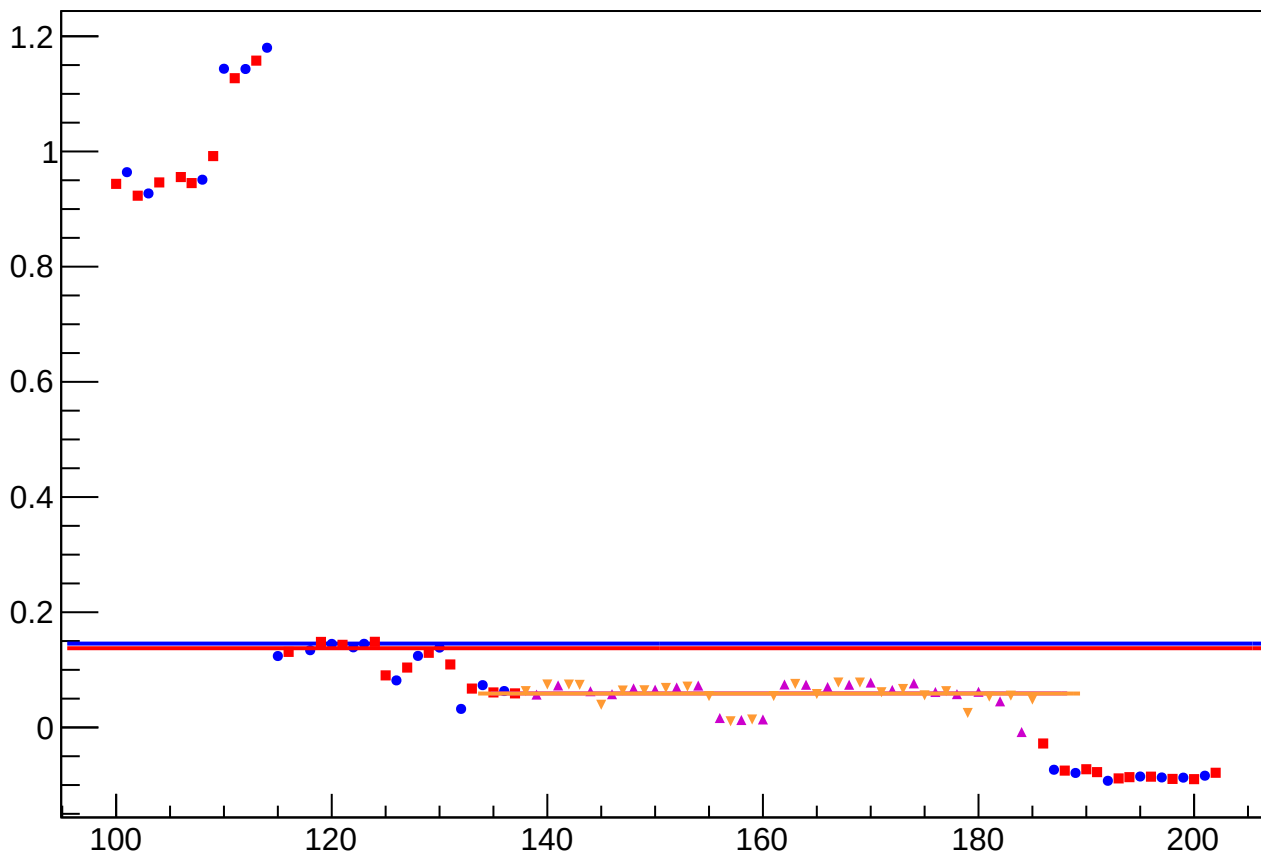
Right: 0.023 ± 0.000 $\chi^2/\text{NDF}: 12616224.7/52$

In: 0.020 ± 0.000 $\chi^2/\text{NDF}: 6699468.9/46$

Out: 0.020 ± 0.000 $\chi^2/\text{NDF}: 8253568.2/53$

All: 0.020 ± 0.000 $\chi^2/\text{NDF}: 14955071.6/100$

yield_bpm4ecY_mean vs Slug, Sign Corrected



Right In: 0.146 $\pm$ 0.000 χ^2 /NDF: 7471922745.3/23

Left Out: 0.059 $\pm$ 0.000 χ^2 /NDF: 46821236.8/24

Right Out: 0.138 $\pm$ 0.000 χ^2 /NDF: 8645316240.6/28

Left In: 0.059 $\pm$ 0.000 χ^2 /NDF: 58518655.0/22

Left: 0.059 $\pm$ 0.000 χ^2 /NDF: 105343775.2/47

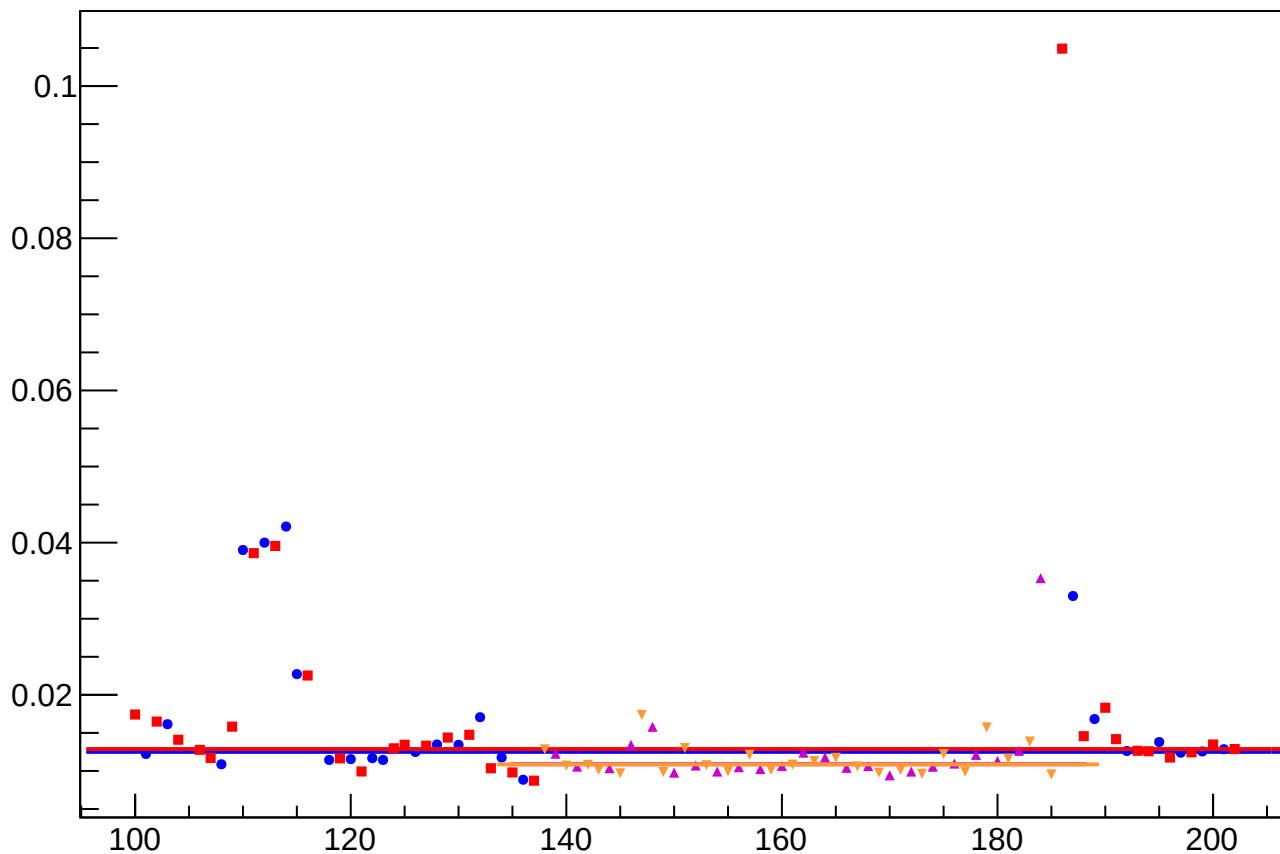
Right: 0.141 $\pm$ 0.000 χ^2 /NDF: 16119420423.0/52

In: 0.087 $\pm$ 0.000 χ^2 /NDF: 7856966213.2/46

Out: 0.085 $\pm$ 0.000 χ^2 /NDF: 8984703578.1/53

All: 0.086 $\pm$ 0.000 χ^2 /NDF: 16842164523.6/100

yield_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 0.013 $\pm$ 0.000 χ^2 /NDF: 1475192.8/23

Left Out: 0.011 $\pm$ 0.000 χ^2 /NDF:604787.9/24

Right Out: 0.013 $\pm$ 0.000 χ^2 /NDF: 1892924.2/28

Left In: 0.011 $\pm$ 0.000 χ^2 /NDF:530077.5/22

Left: 0.011 $\pm$ 0.000 χ^2 /NDF: 1134994.9/47

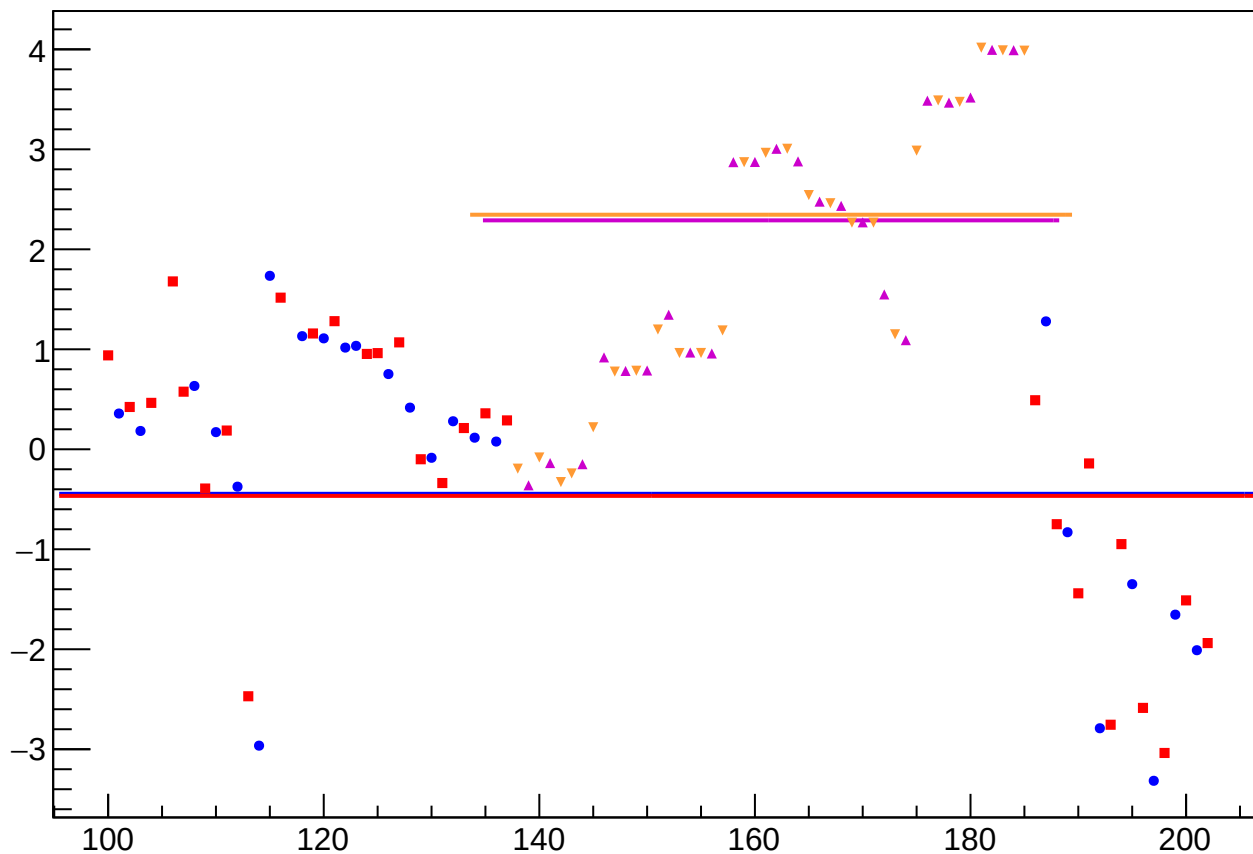
Right: 0.013 $\pm$ 0.000 χ^2 /NDF: 3376770.9/52

In: 0.011 $\pm$ 0.000 χ^2 /NDF:2235241.7/46

Out: 0.012 $\pm$ 0.000 χ^2 /NDF:2880548.1/53

All: 0.011 $\pm$ 0.000 χ^2 /NDF: 5118250.7/100

yield_bpm1X_mean vs Slug, Sign Corrected



Right In: -0.445 ± 0.000 $\chi^2/\text{NDF}: 4741453846.9/23$

Left Out: 2.346 ± 0.000 $\chi^2/\text{NDF}: 63481331015.4/24$

Right Out: -0.466 ± 0.000 $\chi^2/\text{NDF}: 5773299216.5/28$

Left In: 2.290 ± 0.000 $\chi^2/\text{NDF}: 60875537647.3/22$

Left: 2.318 ± 0.000 $\chi^2/\text{NDF}: 124438674298.4/47$

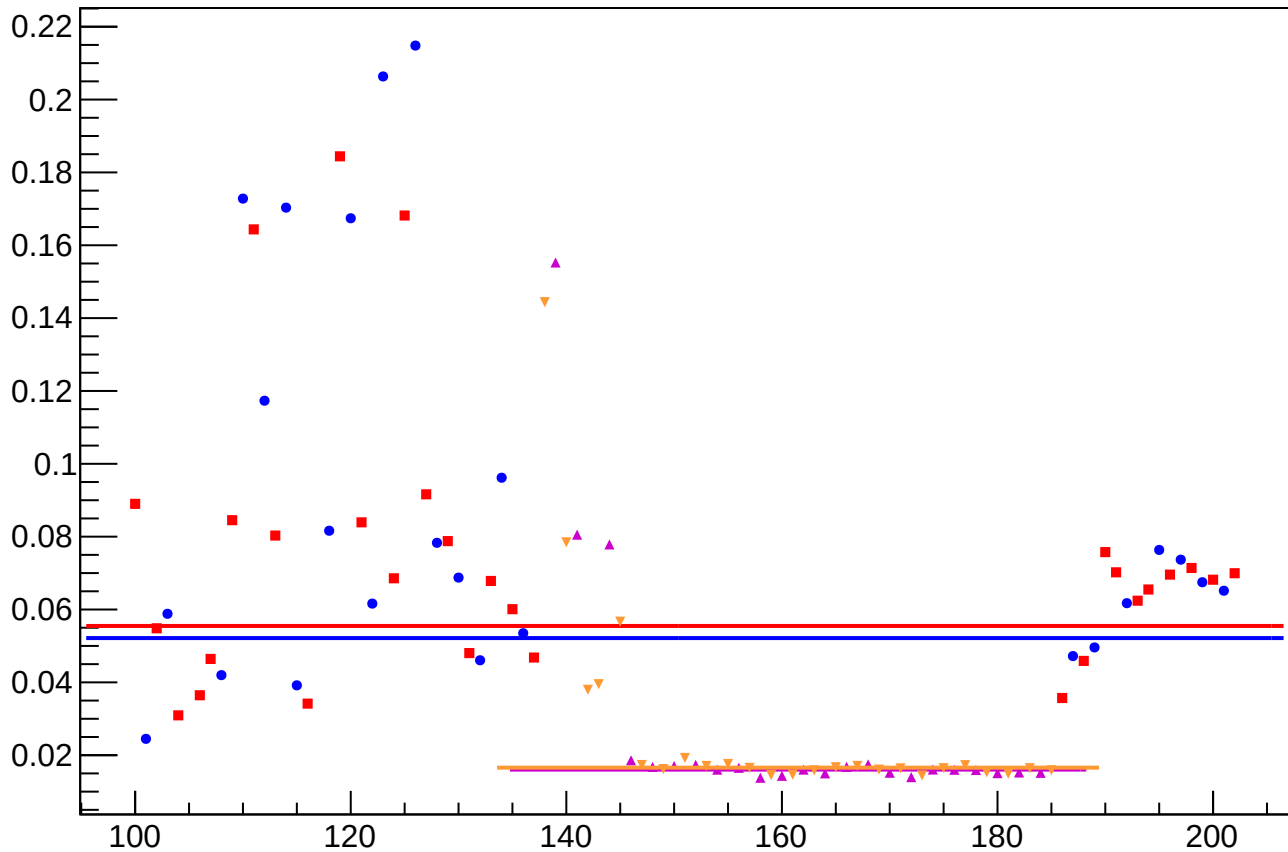
Right: -0.456 ± 0.000 $\chi^2/\text{NDF}: 10515386938.8/52$

In: 2.148 ± 0.000 $\chi^2/\text{NDF}: 85647071898.1/46$

Out: 2.180 ± 0.000 $\chi^2/\text{NDF}: 92989103695.8/53$

All: 2.164 ± 0.000 $\chi^2/\text{NDF}: 178664048327.1$

yield_bpm1X_rms vs Slug, Sign Corrected



Right In: 0.052 $\pm$ 0.000 χ^2 /NDF: 3472940.9/23

Left Out: 0.017 $\pm$ 0.000 χ^2 /NDF:2621162.1/24

Right Out: 0.055 $\pm$ 0.000 χ^2 /NDF: 2835499.9/28

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

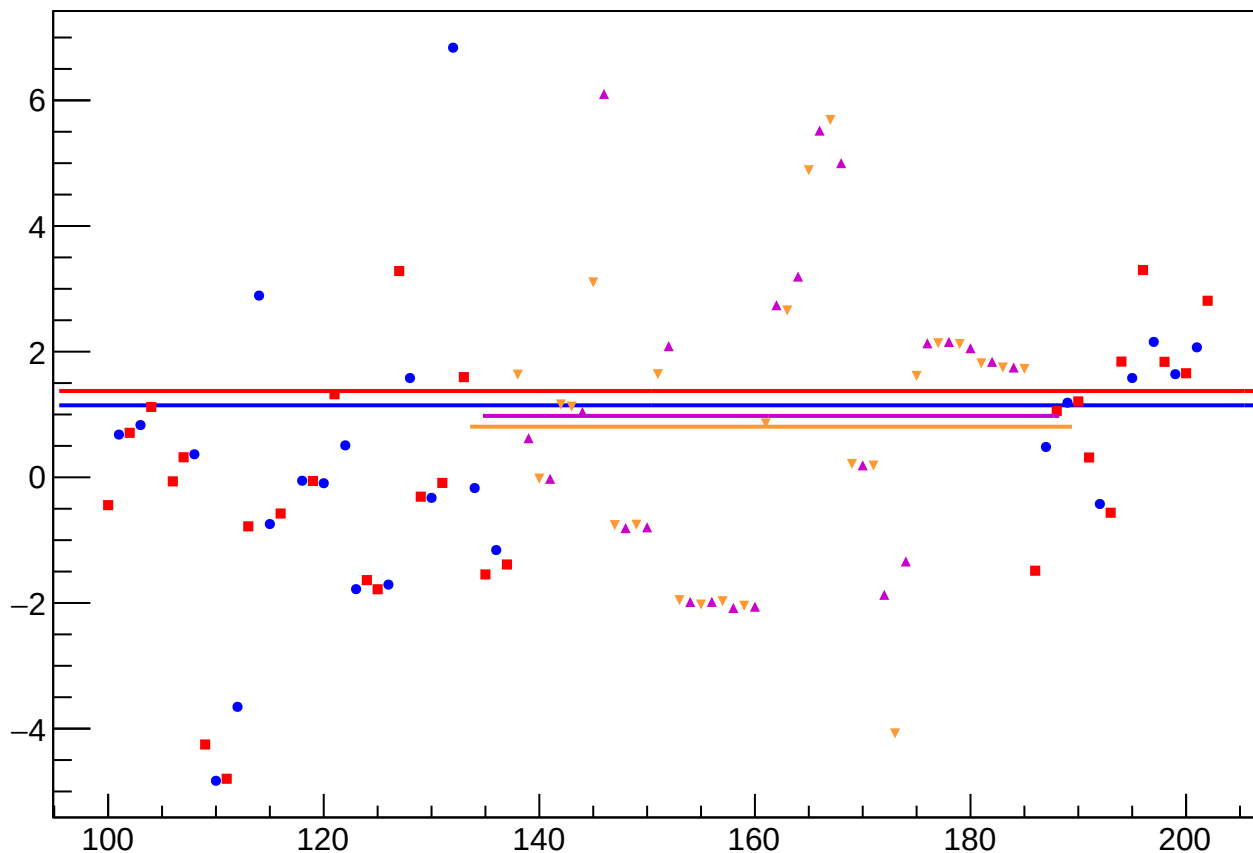
Right: 0.054 $\pm$ 0.000 χ^2 /NDF: 6341600.4/52

In: 0.018 $\pm$ 0.000 χ^2 /NDF:12851235.7/46

Out: 0.019 $\pm$ 0.000 χ^2 /NDF:14540787.5/53

All: 0.018 $\pm$ 0.000 χ^2 /NDF: 27442692.0/100

yield_bpm1Y_mean vs Slug, Sign Corrected



Right In: 1.146 $\pm$ 0.000

χ^2/NDF : 21062482829.4/23

Left: 0.892 $\pm$ 0.000 χ^2/NDF : 1077036497291.8/47

Right: 1.269 $\pm$ 0.000 χ^2/NDF : 47831649006.8/52

Left Out: 0.806 $\pm$ 0.000

χ^2/NDF : 507578952196.2/24

In: 1.002 $\pm$ 0.000 χ^2/NDF : 589619937771.3/46

Right Out: 1.374 $\pm$ 0.000

χ^2/NDF : 26366229673.9/28

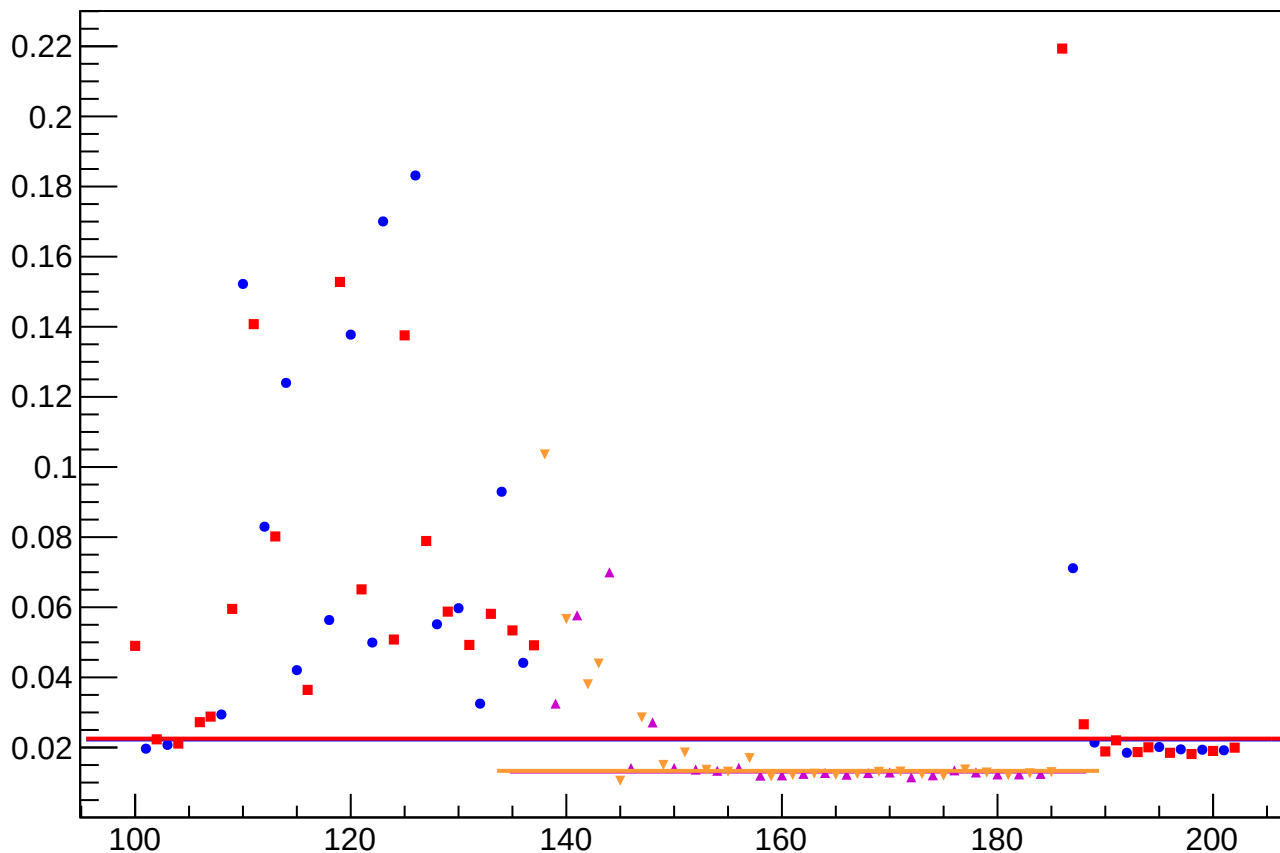
Out: 0.900 $\pm$ 0.000 χ^2/NDF : 538474718653.0/53

Left In: 0.977 $\pm$ 0.000

χ^2/NDF : 568209676597.4/22

All: 0.950 $\pm$ 0.000 χ^2/NDF : 1128614597445.

yield_bpm1Y_rms vs Slug, Sign Corrected



Right In: 0.022+/-0.000 χ^2/NDF : 3743170.4/23

Left Out: 0.013+/-0.000 χ^2/NDF :2829753.9/24

Right Out: 0.023+/-0.000 χ^2/NDF : 4773325.2/28

Left In: 0.013+/-0.000 χ^2/NDF :1946693.6/22

Left: 0.013+/-0.000 χ^2/NDF : 4779900.3/47

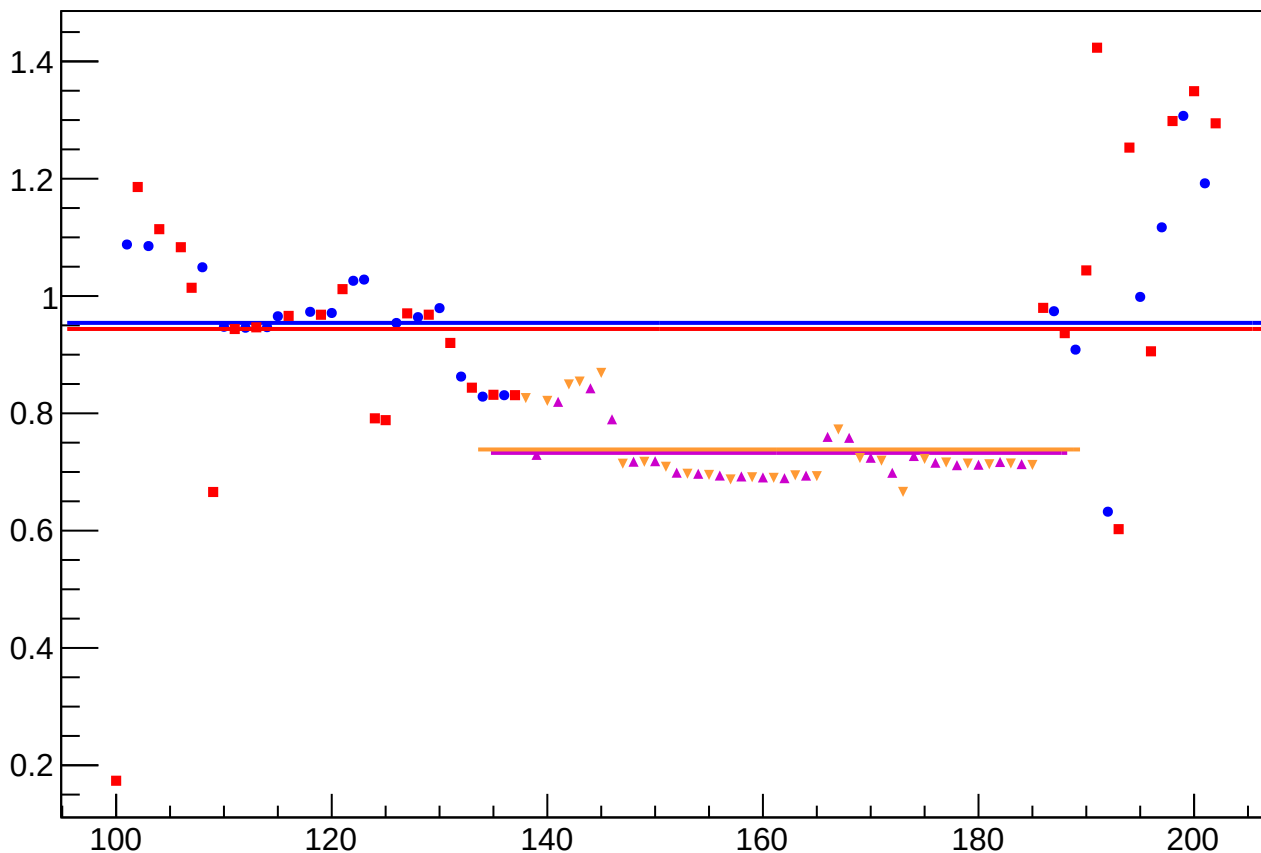
Right: 0.022+/-0.000 χ^2/NDF : 8517395.4/52

In: 0.014+/-0.000 χ^2/NDF :7741707.5/46

Out: 0.015+/-0.000 χ^2/NDF :9974026.1/53

All: 0.015+/-0.000 χ^2/NDF : 17732116.8/100

yield_bpm11X_mean vs Slug, Sign Corrected



Right In: 0.954+/-0.000 χ^2/NDF : 452252903.1/23

Left Out: 0.738+/-0.000 χ^2/NDF : 310195180.4/24

Right Out: 0.944+/-0.000 χ^2/NDF : 896458377.8/28

Left In: 0.733+/-0.000 χ^2/NDF : 170102394.7/22

Left: 0.736+/-0.000 χ^2/NDF : 481708989.2/47

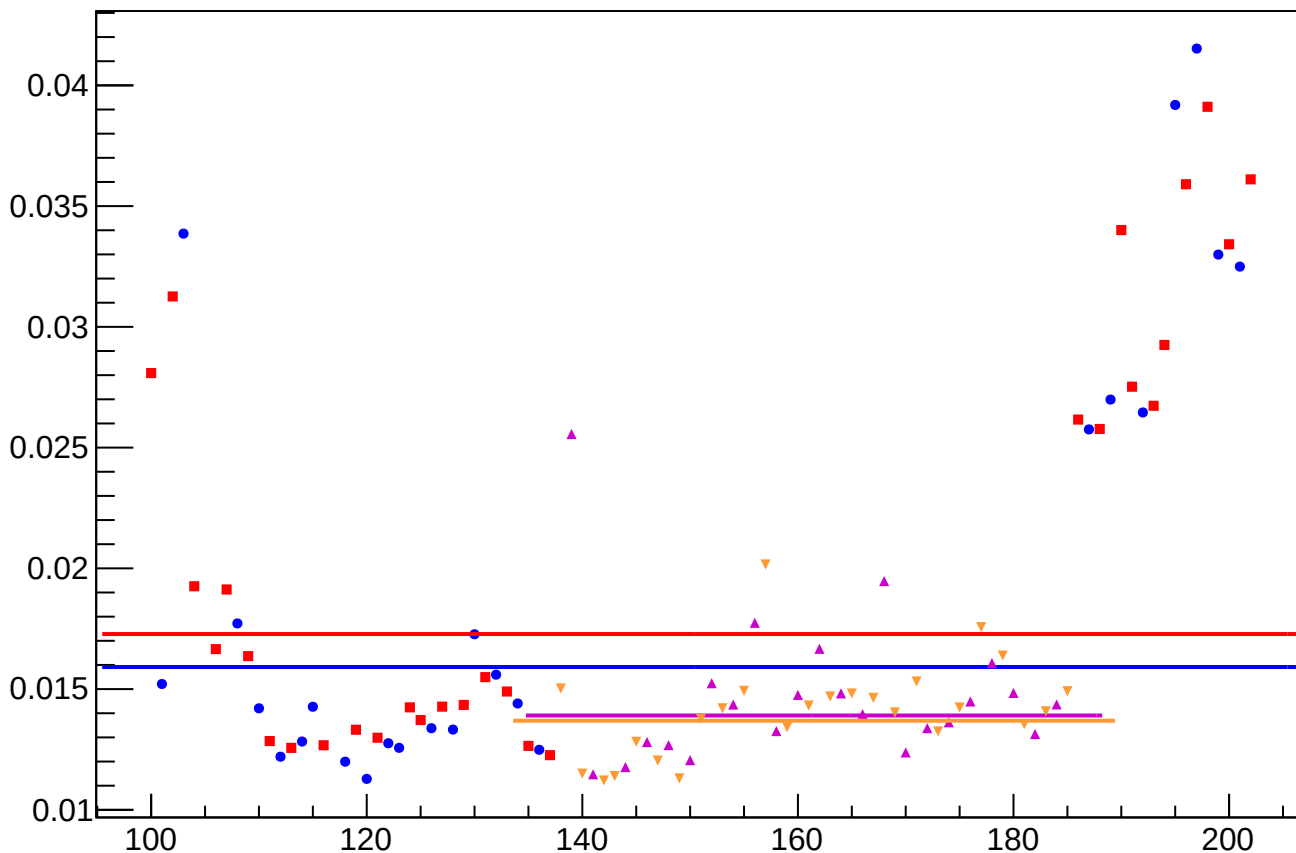
Right: 0.949+/-0.000 χ^2/NDF : 1350622268.1/52

In: 0.800+/-0.000 χ^2/NDF : 1823744989.5/46

Out: 0.799+/-0.000 χ^2/NDF : 2273206473.9/53

All: 0.799+/-0.000 χ^2/NDF : 4097167137.0/100

yield_bpm11X_rms vs Slug, Sign Corrected



Right In: 0.016+/-0.000 χ^2/NDF : 3168344.7/23

Left Out: 0.014+/-0.000 χ^2/NDF : 528480.6/24

Right Out: 0.017+/-0.000 χ^2/NDF : 3418807.9/28

Left In: 0.014+/-0.000 χ^2/NDF : 768161.9/22

Left: 0.014+/-0.000 χ^2/NDF : 1300553.4/47

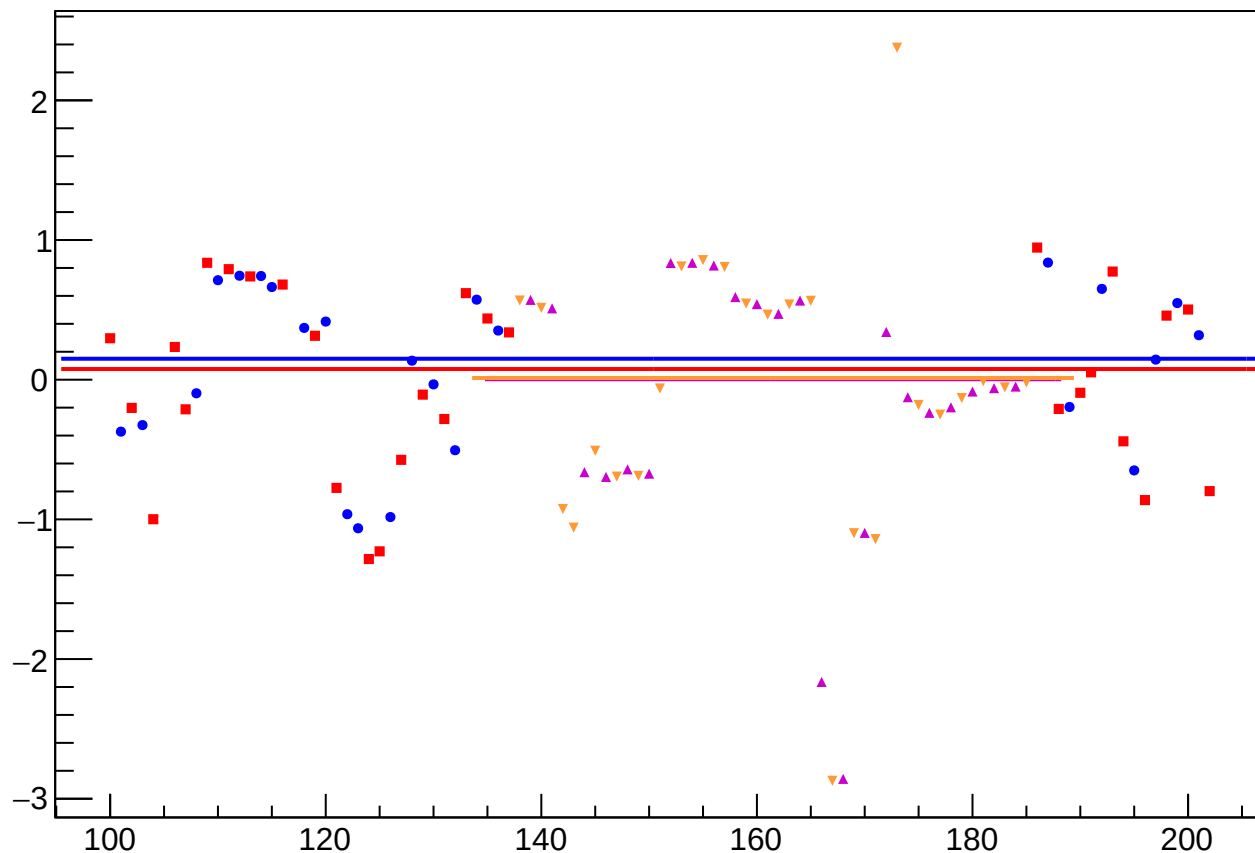
Right: 0.017+/-0.000 χ^2/NDF : 6653216.3/52

In: 0.015+/-0.000 χ^2/NDF : 4133667.9/46

Out: 0.015+/-0.000 χ^2/NDF : 4598426.1/53

All: 0.015+/-0.000 χ^2/NDF : 8737760.8/100

yield_bpm11Y_mean vs Slug, Sign Corrected



Right In: 0.150+/-0.000 χ^2/NDF : 13653676212.6/23

Left Out: 0.012+/-0.000 χ^2/NDF : 96383858927.1/24

Right Out: 0.076+/-0.000 χ^2/NDF : 26895700888.7/28

Left In: 0.003+/-0.000 χ^2/NDF : 78826489573.0/22

Left: 0.008+/-0.000 χ^2/NDF : 175214894006.3/47

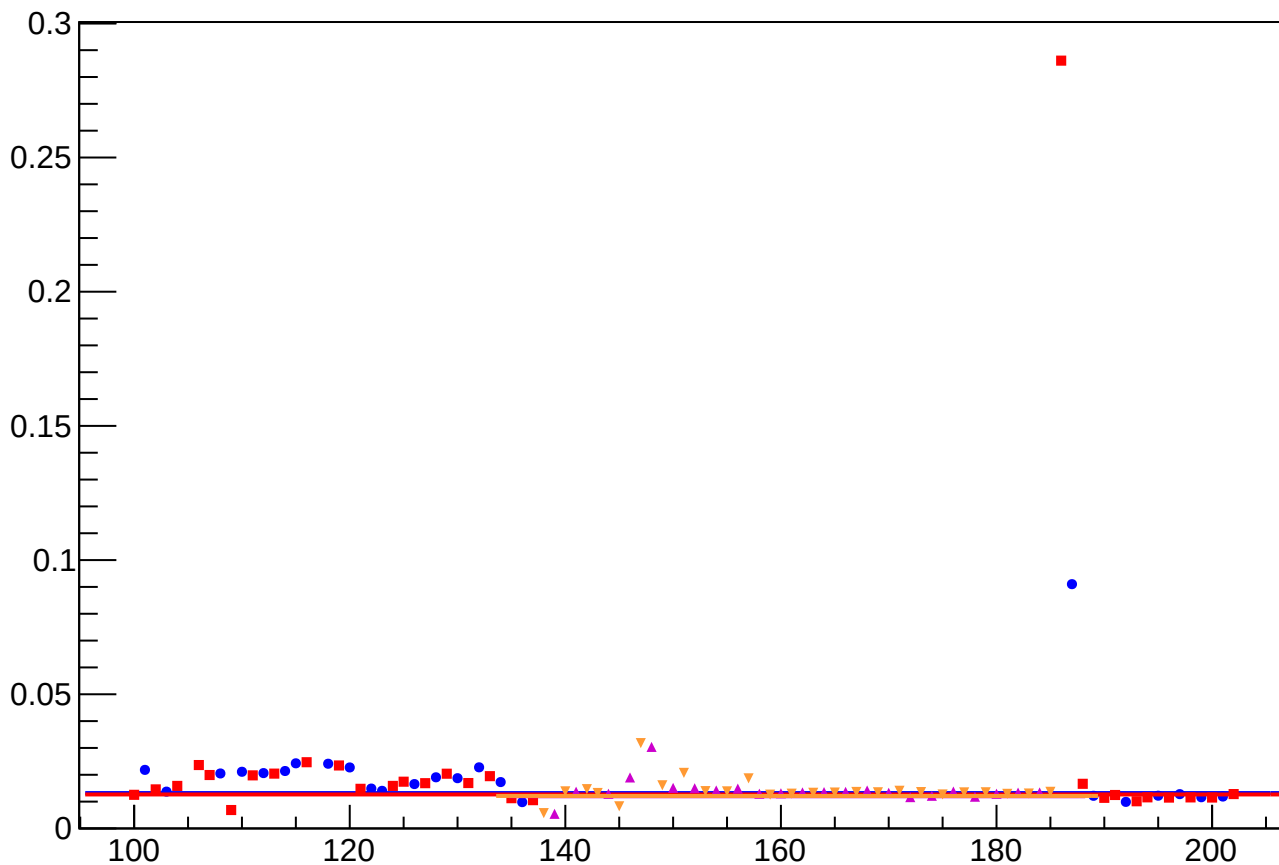
Right: 0.109+/-0.000 χ^2/NDF : 40713484494.8/52

In: 0.054+/-0.000 χ^2/NDF : 93255581851.5/46

Out: 0.037+/-0.000 χ^2/NDF : 123451444756.7/53

All: 0.045+/-0.000 χ^2/NDF : 216730450662.1

yield_bpm11Y_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 1863683.1/23

Left Out: 0.012+/-0.000 χ^2/NDF : 3105238.9/24

Right Out: 0.013+/-0.000 χ^2/NDF : 2516615.6/28

Left In: 0.012+/-0.000 χ^2/NDF : 3003502.9/22

Left: 0.012+/-0.000 χ^2/NDF : 6110012.2/47

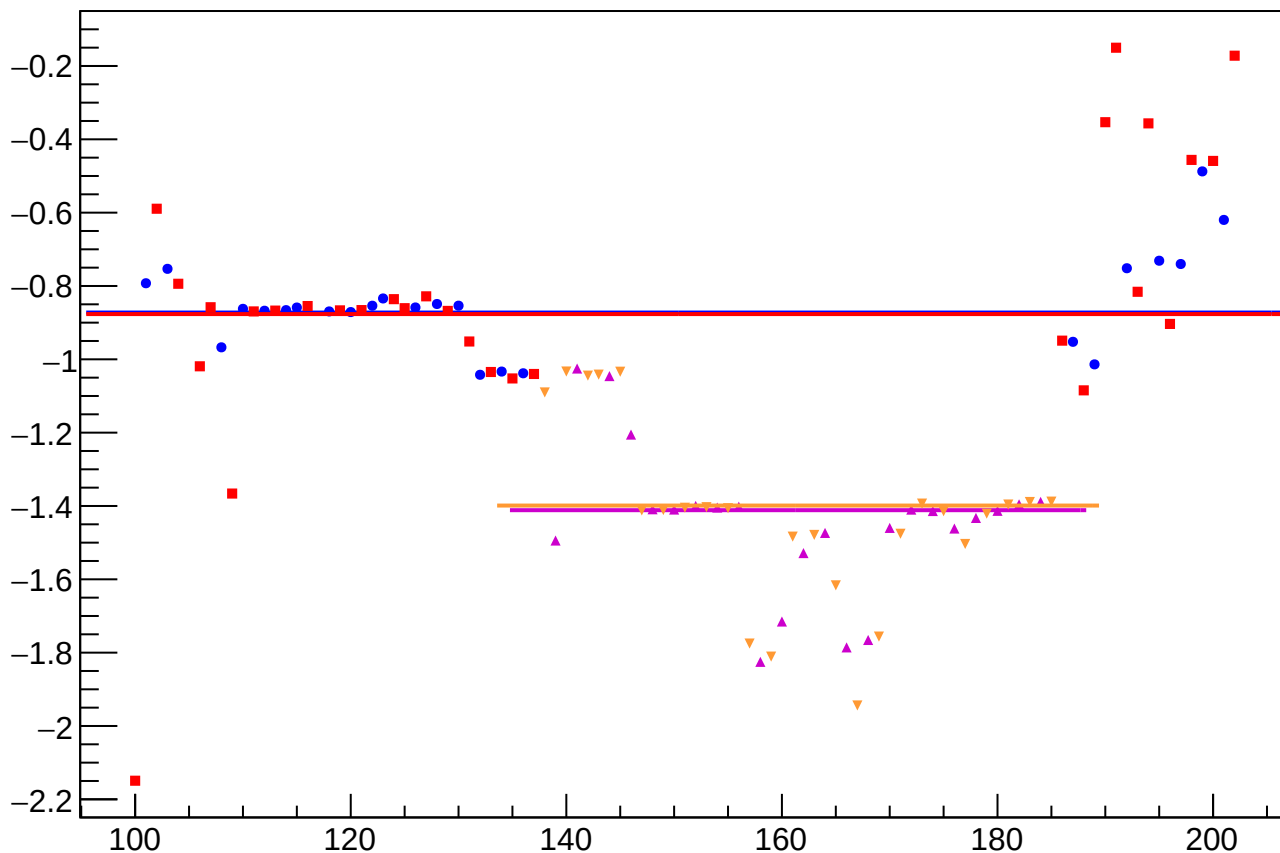
Right: 0.013+/-0.000 χ^2/NDF : 4396330.4/52

In: 0.012+/-0.000 χ^2/NDF : 4968286.0/46

Out: 0.012+/-0.000 χ^2/NDF : 5648356.4/53

All: 0.012+/-0.000 χ^2/NDF : 10617798.0/100

yield_bpm12X_mean vs Slug, Sign Corrected



Right In: -0.872+/-0.000 χ^2/NDF : 78830531.9/23

Left Out: -1.399+/-0.000 χ^2/NDF : 738251911.1/24

Right Out: -0.877+/-0.000 χ^2/NDF : 316838982.1/28

Left In: -1.411+/-0.000 χ^2/NDF : 512547995.0/22

Left: -1.405+/-0.000 χ^2/NDF : 1251791467.1/47

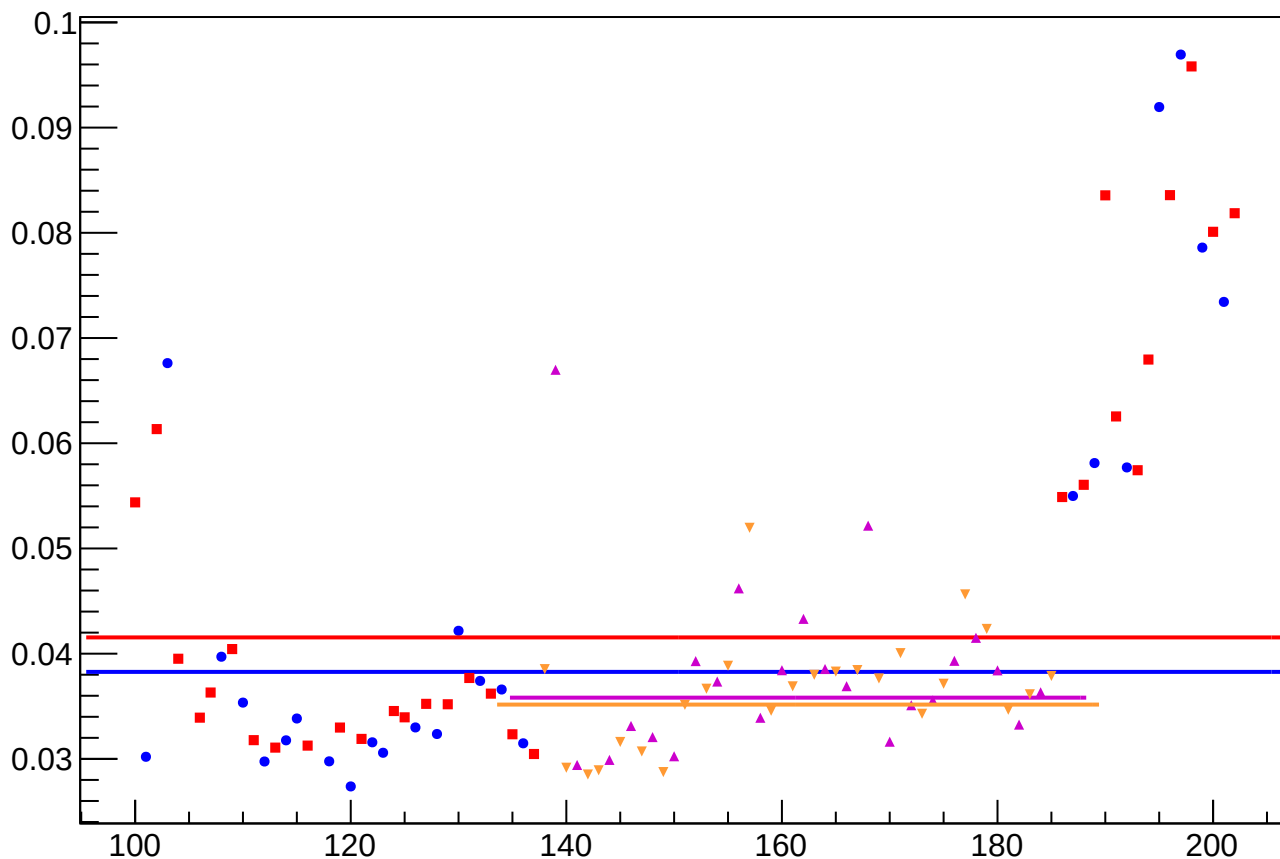
Right: -0.875+/-0.000 χ^2/NDF : 395724007.4/52

In: -1.226+/-0.000 χ^2/NDF : 1778548427.2/46

Out: -1.228+/-0.000 χ^2/NDF : 2211800374.4/53

All: -1.227+/-0.000 χ^2/NDF : 3990370748.6/1

yield_bpm12X_rms vs Slug, Sign Corrected



Right In: 0.038 $\pm$ 0.000 χ^2 /NDF: 2794865.4/23

Left Out: 0.035 $\pm$ 0.000 χ^2 /NDF:595219.5/24

Right Out: 0.042 $\pm$ 0.000 χ^2 /NDF: 2904402.7/28

Left In: 0.036 $\pm$ 0.000 χ^2 /NDF:864147.6/22

Left: 0.035 $\pm$ 0.000 χ^2 /NDF: 1464751.5/47

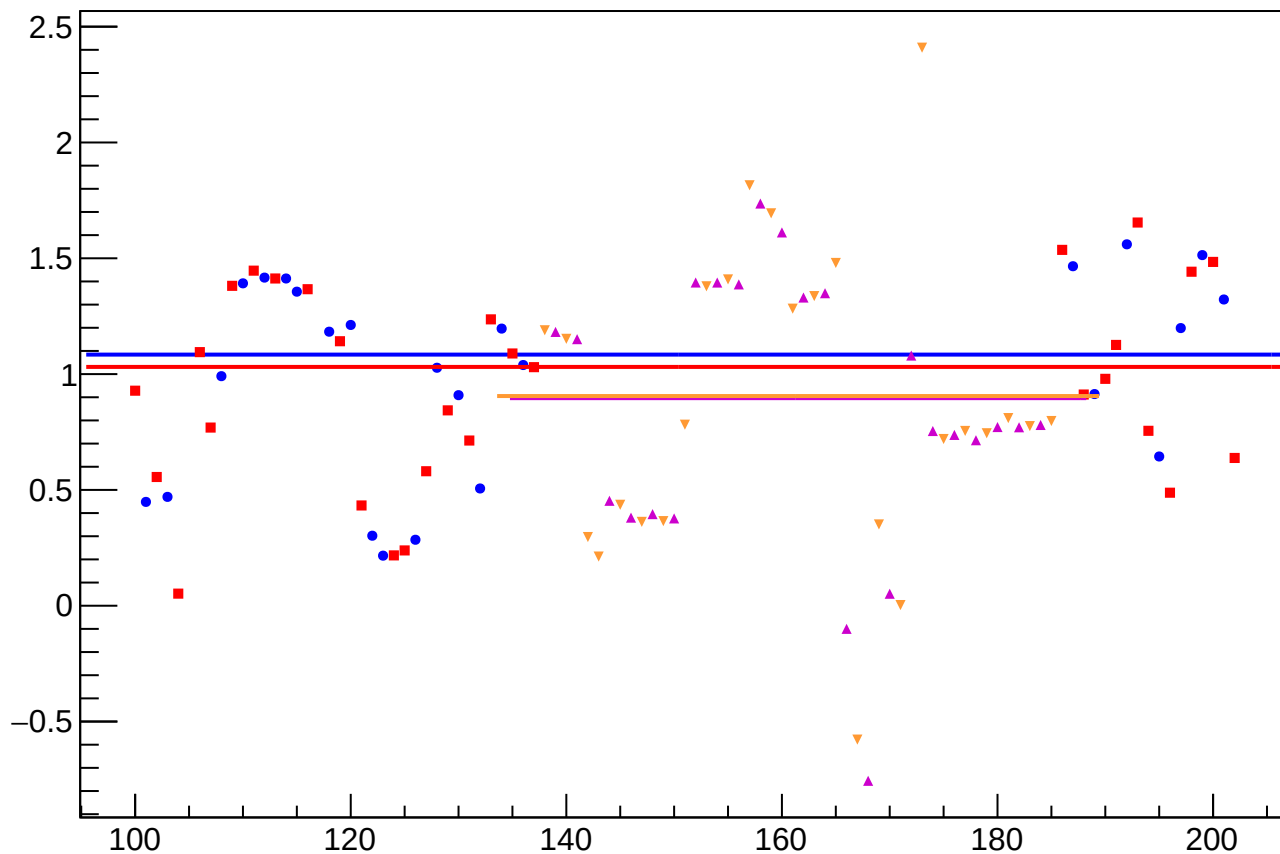
Right: 0.040 $\pm$ 0.000 χ^2 /NDF: 5766499.8/52

In: 0.037 $\pm$ 0.000 χ^2 /NDF:3708020.8/46

Out: 0.037 $\pm$ 0.000 χ^2 /NDF:3845354.4/53

All: 0.037 $\pm$ 0.000 χ^2 /NDF: 7559867.5/100

yield_bpm12Y_mean vs Slug, Sign Corrected



Right In: 1.084 $\pm$ 0.000 χ^2 /NDF: 17880546102.8/23

Left Out: 0.905 $\pm$ 0.000 χ^2 /NDF: 84265726513.8/24

Right Out: 1.031 $\pm$ 0.000 χ^2 /NDF: 24887085783.5/28

Left In: 0.896 $\pm$ 0.000 χ^2 /NDF: 66594200889.6/22

Left: 0.901 $\pm$ 0.000 χ^2 /NDF: 150868618084.6/47

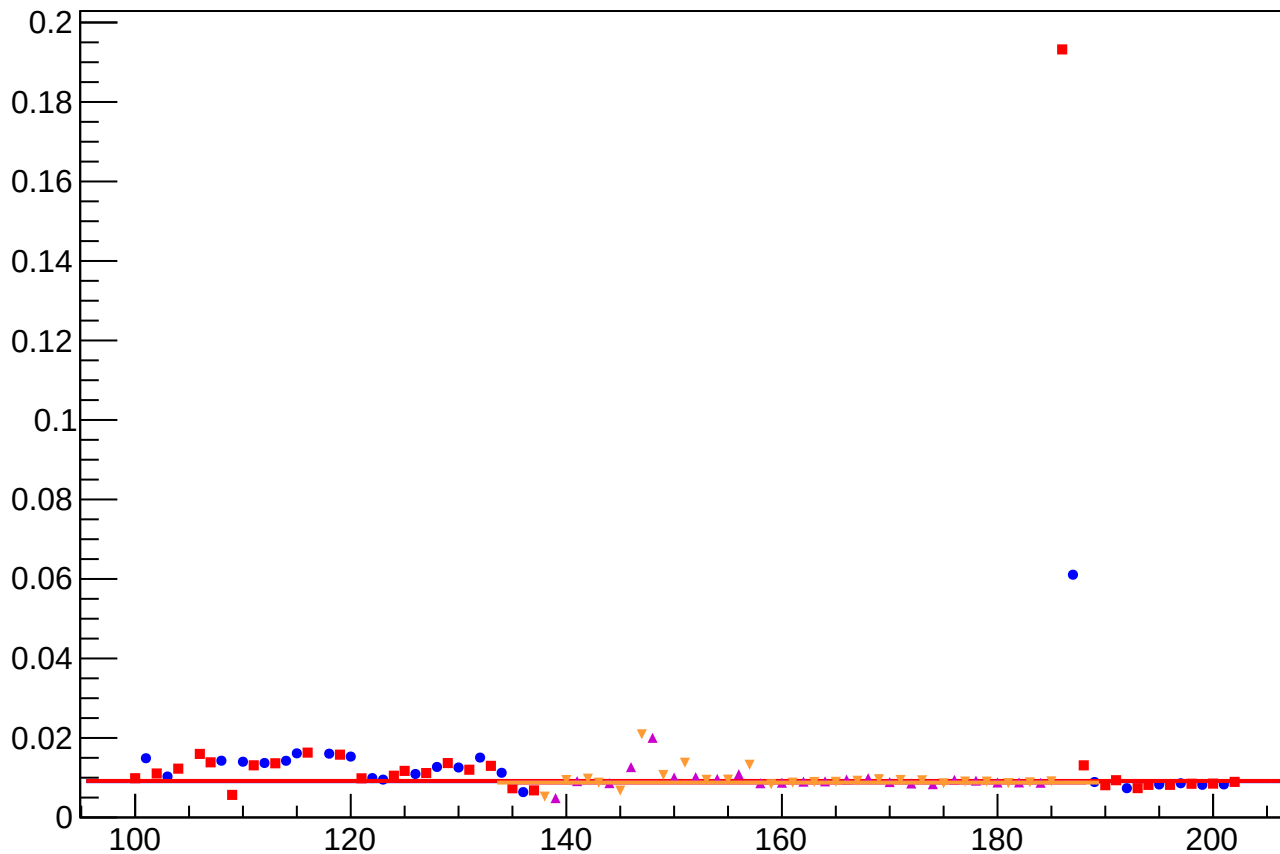
Right: 1.056 $\pm$ 0.000 χ^2 /NDF: 42943217806.0/52

In: 0.964 $\pm$ 0.000 χ^2 /NDF: 87101729143.6/46

Out: 0.953 $\pm$ 0.000 χ^2 /NDF: 110463451347.6/53

All: 0.958 $\pm$ 0.000 χ^2 /NDF: 197587609602.1

yield_bpm12Y_rms vs Slug, Sign Corrected



Right In: 0.009+/-0.000 χ^2/NDF : 1738371.6/23

Left Out: 0.009+/-0.000 χ^2/NDF :1697568.1/24

Right Out: 0.009+/-0.000 χ^2/NDF : 2182224.1/28

Left In: 0.009+/-0.000 χ^2/NDF :1607939.0/22

Left: 0.009+/-0.000 χ^2/NDF : 3305514.2/47

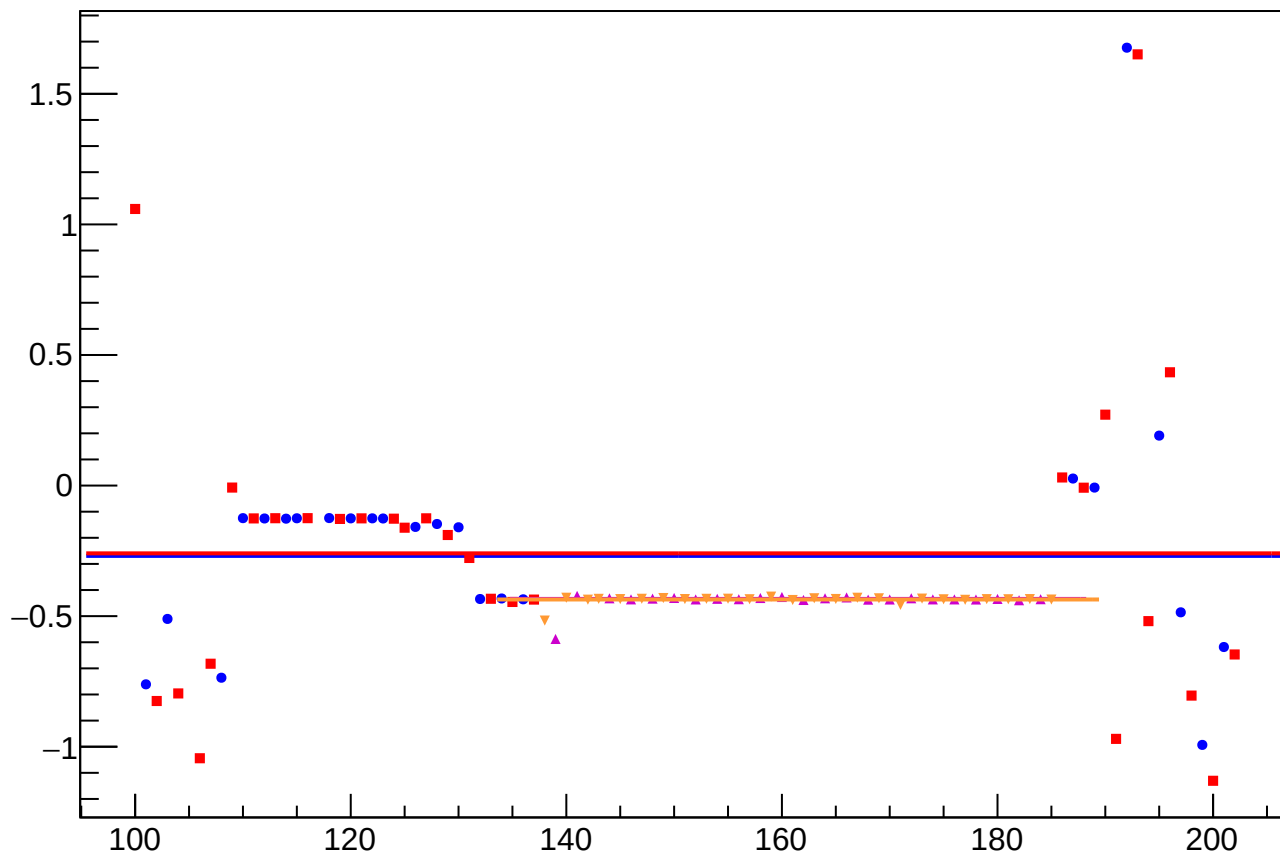
Right: 0.009+/-0.000 χ^2/NDF : 3921018.4/52

In: 0.009+/-0.000 χ^2/NDF :3364957.2/46

Out: 0.009+/-0.000 χ^2/NDF :3907180.9/53

All: 0.009+/-0.000 χ^2/NDF : 7272464.7/100

yield_bpm16X_mean vs Slug, Sign Corrected



Right In: -0.269+/-0.000 χ^2/NDF : 2028867390.2/23

Left Out: -0.436+/-0.000 χ^2/NDF : 28774660.0/24

Right Out: -0.260+/-0.000 χ^2/NDF : 2047981080.3/28

Left In: -0.434+/-0.000 χ^2/NDF : 23984173.0/22

Left: -0.435+/-0.000 χ^2/NDF : 53122221.7/47

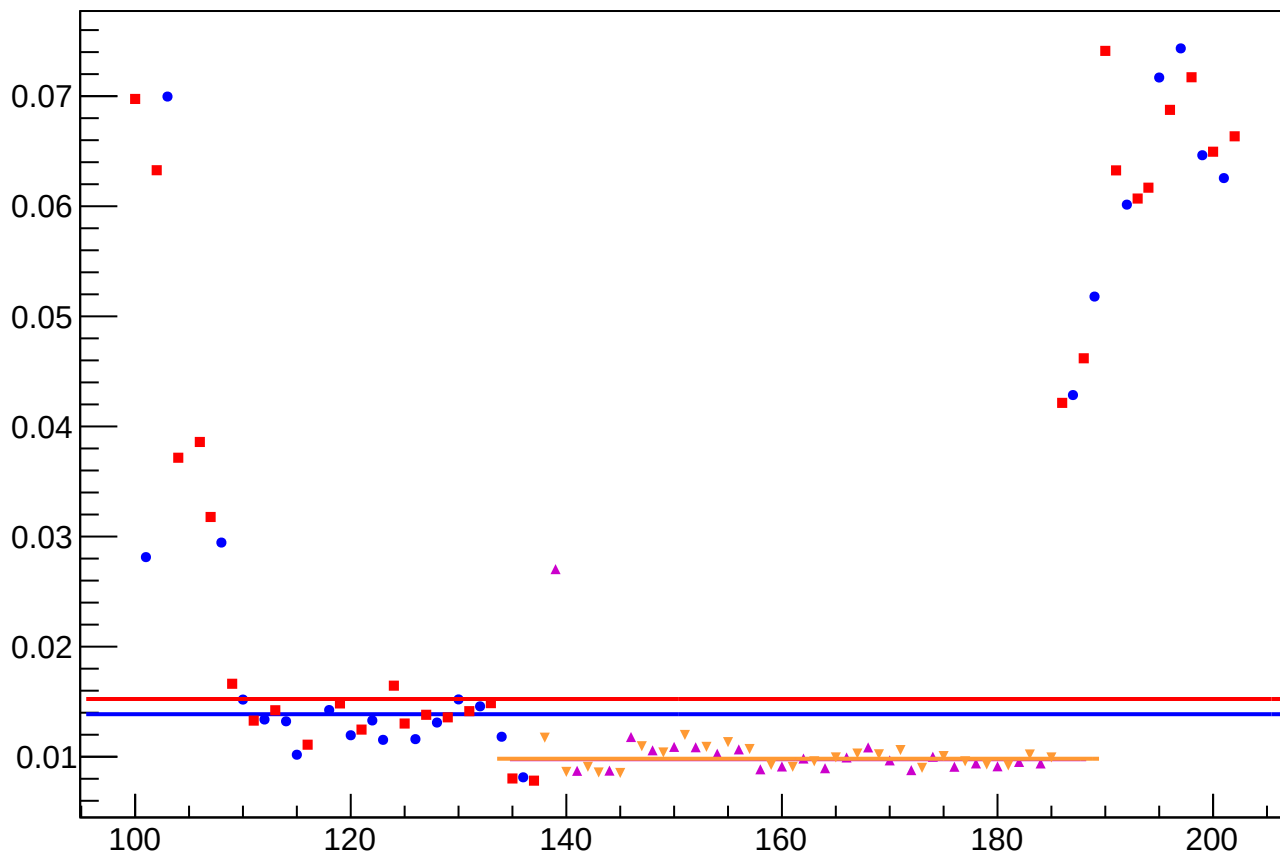
Right: -0.265+/-0.000 χ^2/NDF : 4078366131.0/52

In: -0.405+/-0.000 χ^2/NDF : 2791956658.2/46

Out: -0.407+/-0.000 χ^2/NDF : 2900418144.8/53

All: -0.406+/-0.000 χ^2/NDF : 5693130628.0/1

yield_bpm16X_rms vs Slug, Sign Corrected



Right In: 0.014+/-0.000 χ^2/NDF : 7423491.2/23

Left Out: 0.010+/-0.000 χ^2/NDF : 269242.6/24

Right Out: 0.015+/-0.000 χ^2/NDF : 9208992.4/28

Left In: 0.010+/-0.000 χ^2/NDF : 747550.0/22

Left: 0.010+/-0.000 χ^2/NDF : 1017115.3/47

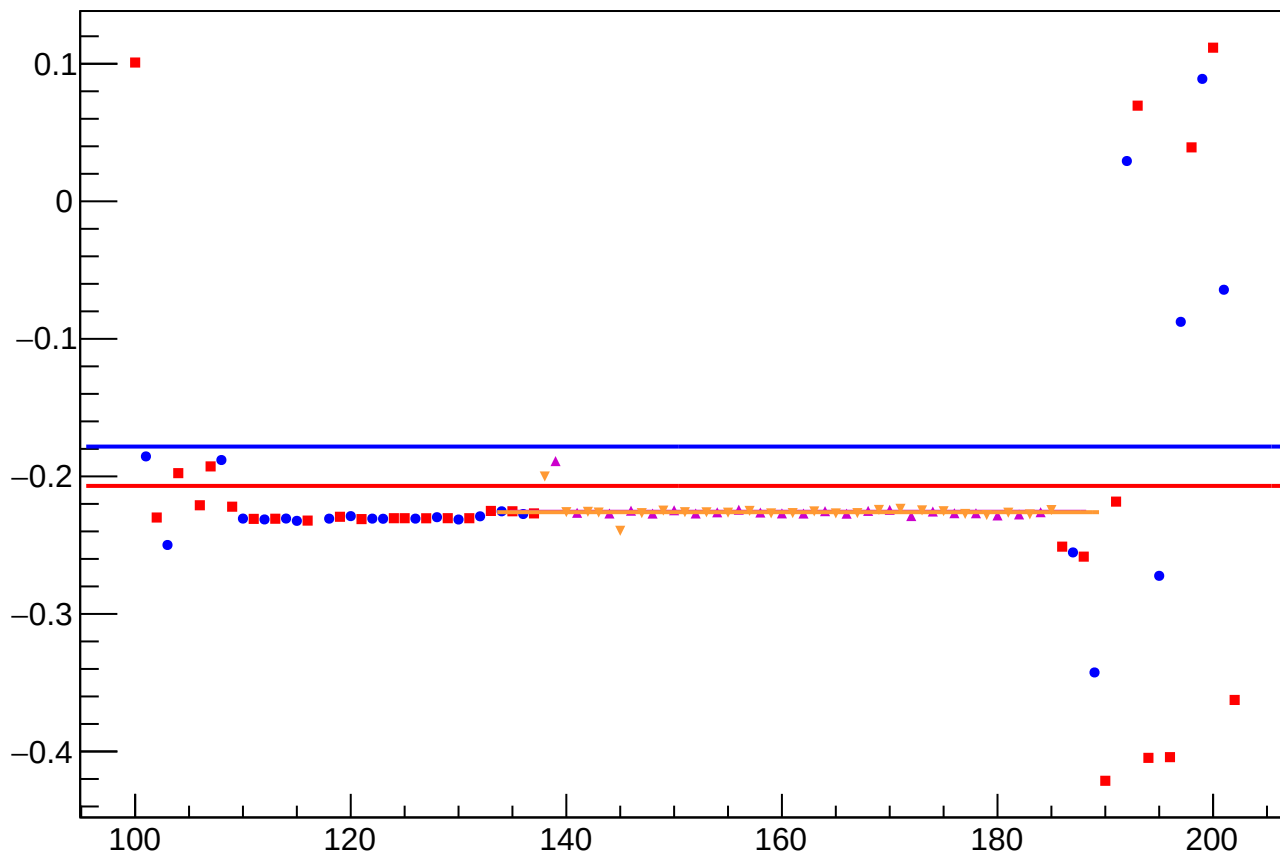
Right: 0.015+/-0.000 χ^2/NDF : 16694070.6/52

In: 0.011+/-0.000 χ^2/NDF : 9081559.5/46

Out: 0.011+/-0.000 χ^2/NDF : 11032086.5/53

All: 0.011+/-0.000 χ^2/NDF : 20121095.0/100

yield_bpm16Y_mean vs Slug, Sign Corrected



Right In: -0.178+/-0.000 χ^2/NDF : 4433172804.6/23

Left Out: -0.226+/-0.000 χ^2/NDF : 21205667.4/24

Right Out: -0.207+/-0.000 χ^2/NDF : 7872325188.7/28

Left In: -0.226+/-0.000 χ^2/NDF : 15245251.1/22

Left: -0.226+/-0.000 χ^2/NDF : 36480793.2/47

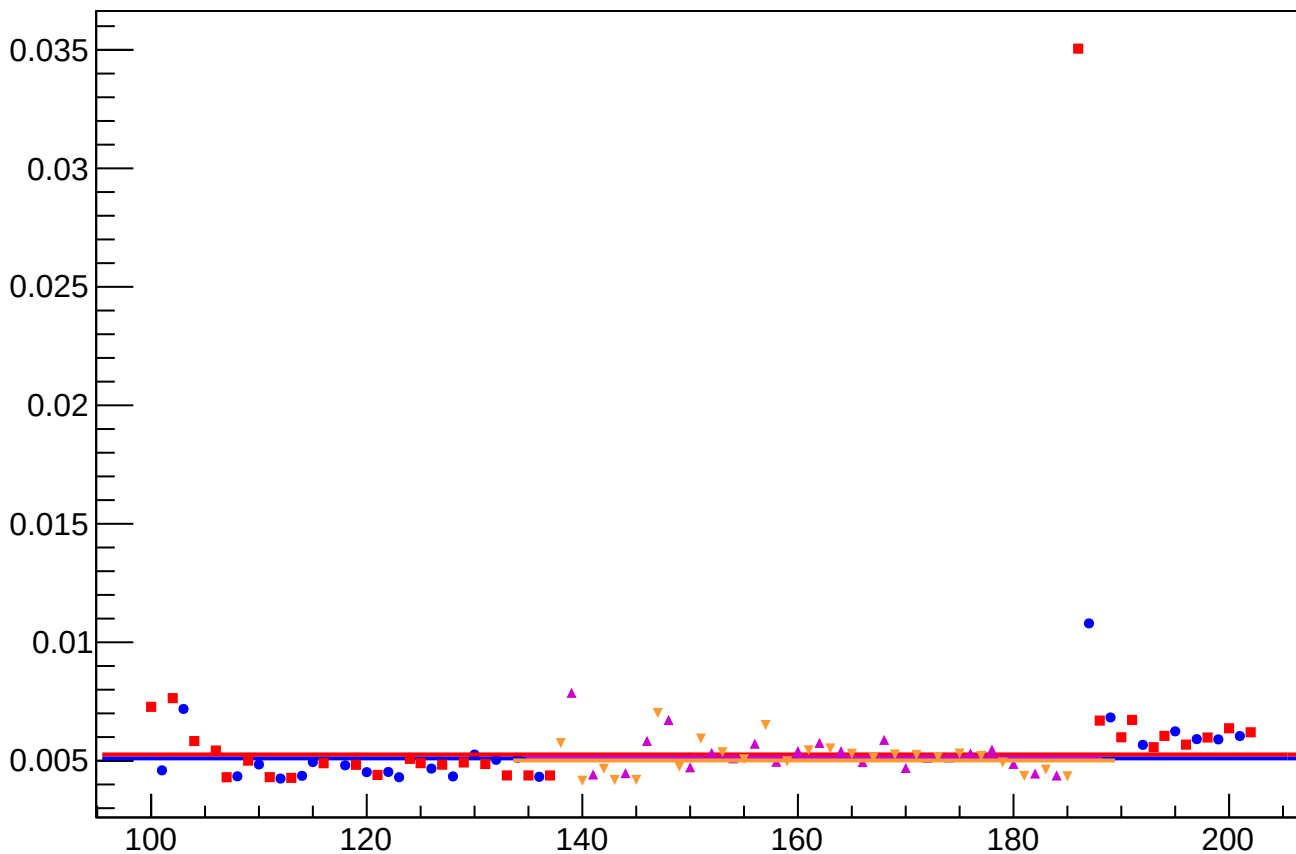
Right: -0.193+/-0.000 χ^2/NDF : 12474686172.4/52

In: -0.207+/-0.000 χ^2/NDF : 4989527259.9/46

Out: -0.219+/-0.000 χ^2/NDF : 7990330980.2/53

All: -0.213+/-0.000 χ^2/NDF : 13049827418.2/100

yield_bpm16Y_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 574950.3/23

Left Out: 0.005+/-0.000 χ^2/NDF : 530632.6/24

Right Out: 0.005+/-0.000 χ^2/NDF : 1129616.8/28

Left In: 0.005+/-0.000 χ^2/NDF : 493107.7/22

Left: 0.005+/-0.000 χ^2/NDF : 1035156.6/47

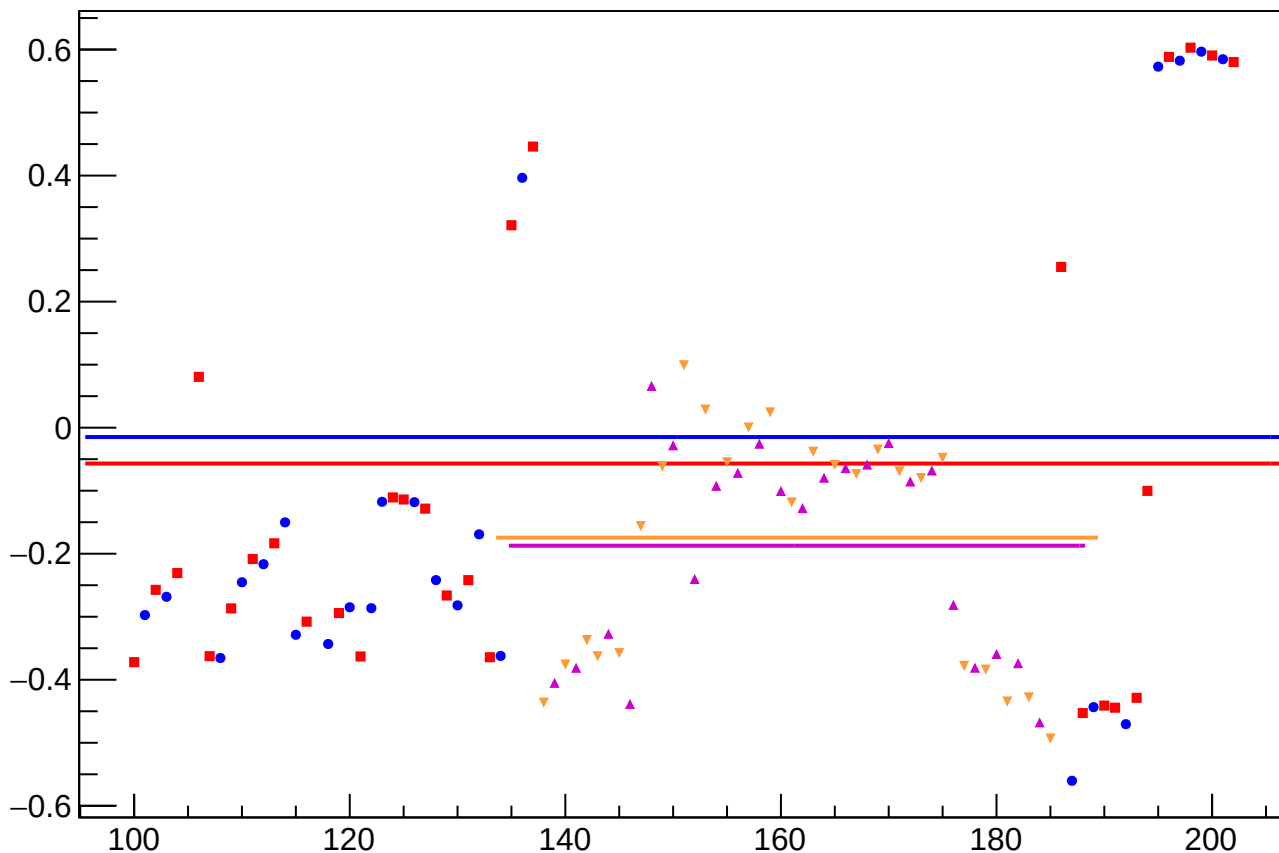
Right: 0.005+/-0.000 χ^2/NDF : 1716030.7/52

In: 0.005+/-0.000 χ^2/NDF : 1069041.4/46

Out: 0.005+/-0.000 χ^2/NDF : 1694484.1/53

All: 0.005+/-0.000 χ^2/NDF : 2763819.3/100

yield_bpm0i02X_mean vs Slug, Sign Corrected



Right In: -0.015 ± 0.000 $\chi^2/\text{NDF}: 42116042976.7/23$

Left Out: -0.174 ± 0.000 $\chi^2/\text{NDF}: 18025533236.1/24$

Right Out: -0.057 ± 0.000 $\chi^2/\text{NDF}: 42309020863.7/28$

Left In: -0.187 ± 0.000 $\chi^2/\text{NDF}: 12816646575.4/22$

Left: -0.181 ± 0.000 $\chi^2/\text{NDF}: 30888184231.6/47$

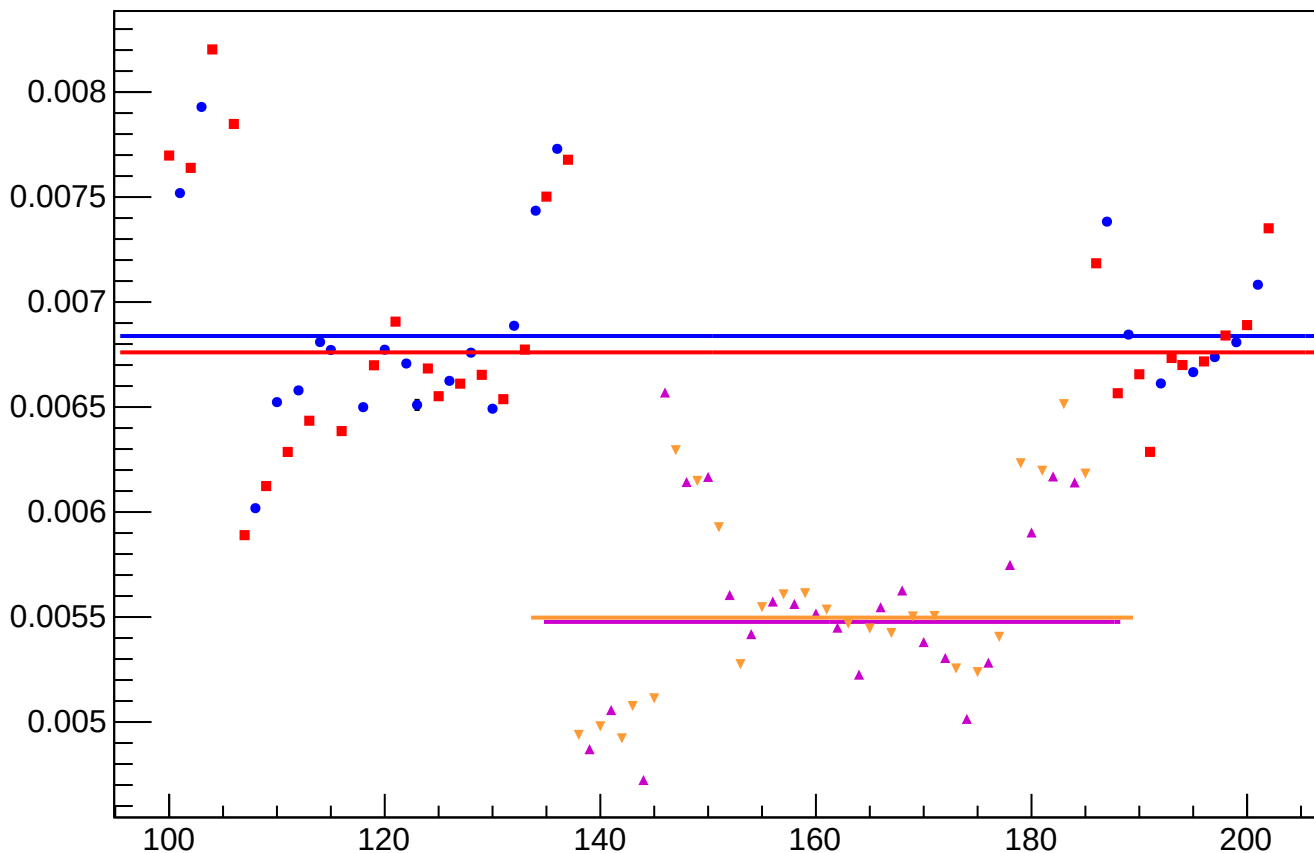
Right: -0.038 ± 0.000 $\chi^2/\text{NDF}: 84656789220.3/52$

In: -0.135 ± 0.000 $\chi^2/\text{NDF}: 59893975821.2/46$

Out: -0.135 ± 0.000 $\chi^2/\text{NDF}: 62994056321.7/53$

All: -0.135 ± 0.000 $\chi^2/\text{NDF}: 122888205303.4$

yield_bpm0i02X_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 86001.2/23

Left Out: 0.005+/-0.000 χ^2/NDF :198746.4/24

Right Out: 0.007+/-0.000 χ^2/NDF : 120228.8/28

Left In: 0.005+/-0.000 χ^2/NDF :202181.4/22

Left: 0.005+/-0.000 χ^2/NDF : 401165.3/47

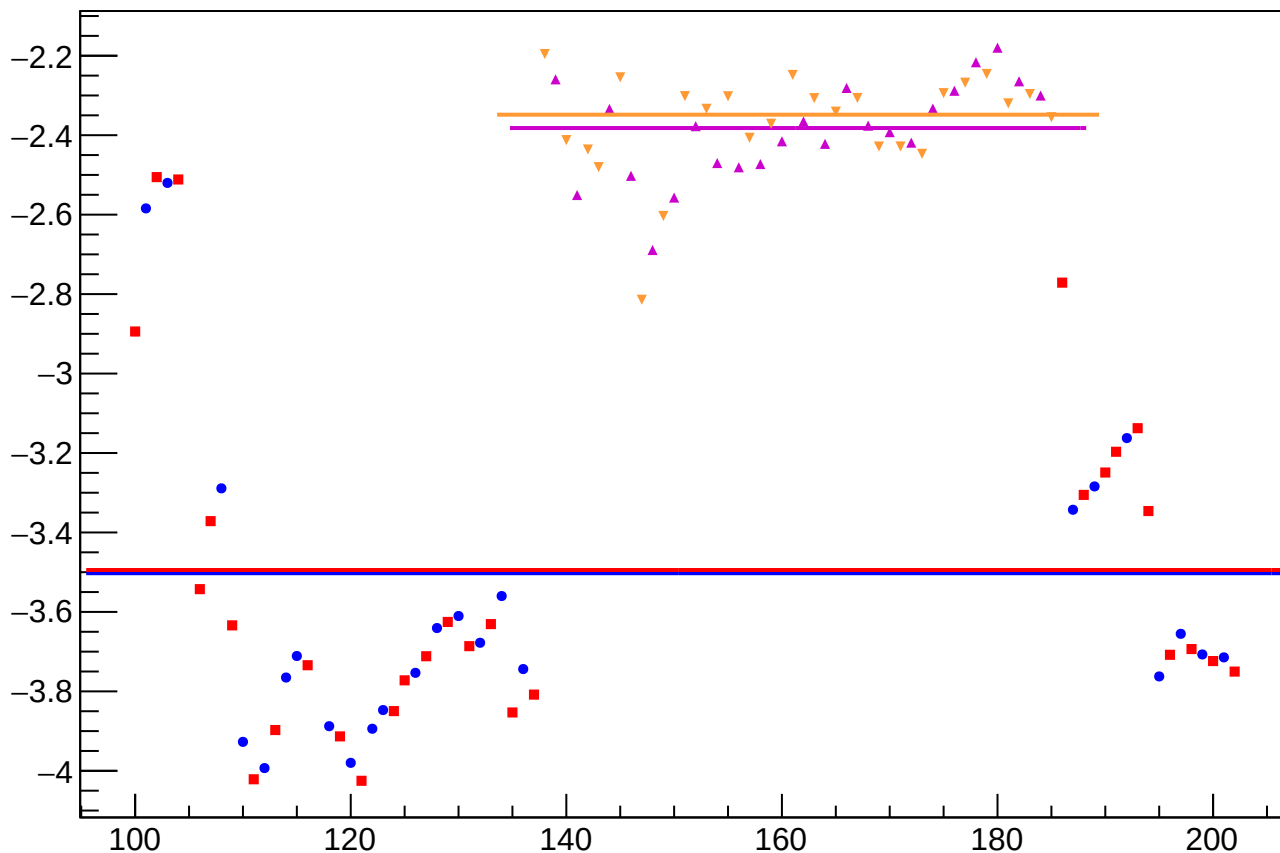
Right: 0.007+/-0.000 χ^2/NDF : 207816.8/52

In: 0.006+/-0.000 χ^2/NDF :906860.4/46

Out: 0.006+/-0.000 χ^2/NDF :932865.4/53

All: 0.006+/-0.000 χ^2/NDF : 1840277.2/100

yield_bpm0i02Y_mean vs Slug, Sign Corrected



Right In: -3.503+/-0.000 χ^2/NDF : 29176562792.2/23

Left Out: -2.348+/-0.000 χ^2/NDF : 2158686333.4/24

Right Out: -3.494+/-0.000 χ^2/NDF : 30319217221.1/28

Left In: -2.382+/-0.000 χ^2/NDF : 2318395228.4/22

Left: -2.365+/-0.000 χ^2/NDF : 4600738143.2/47

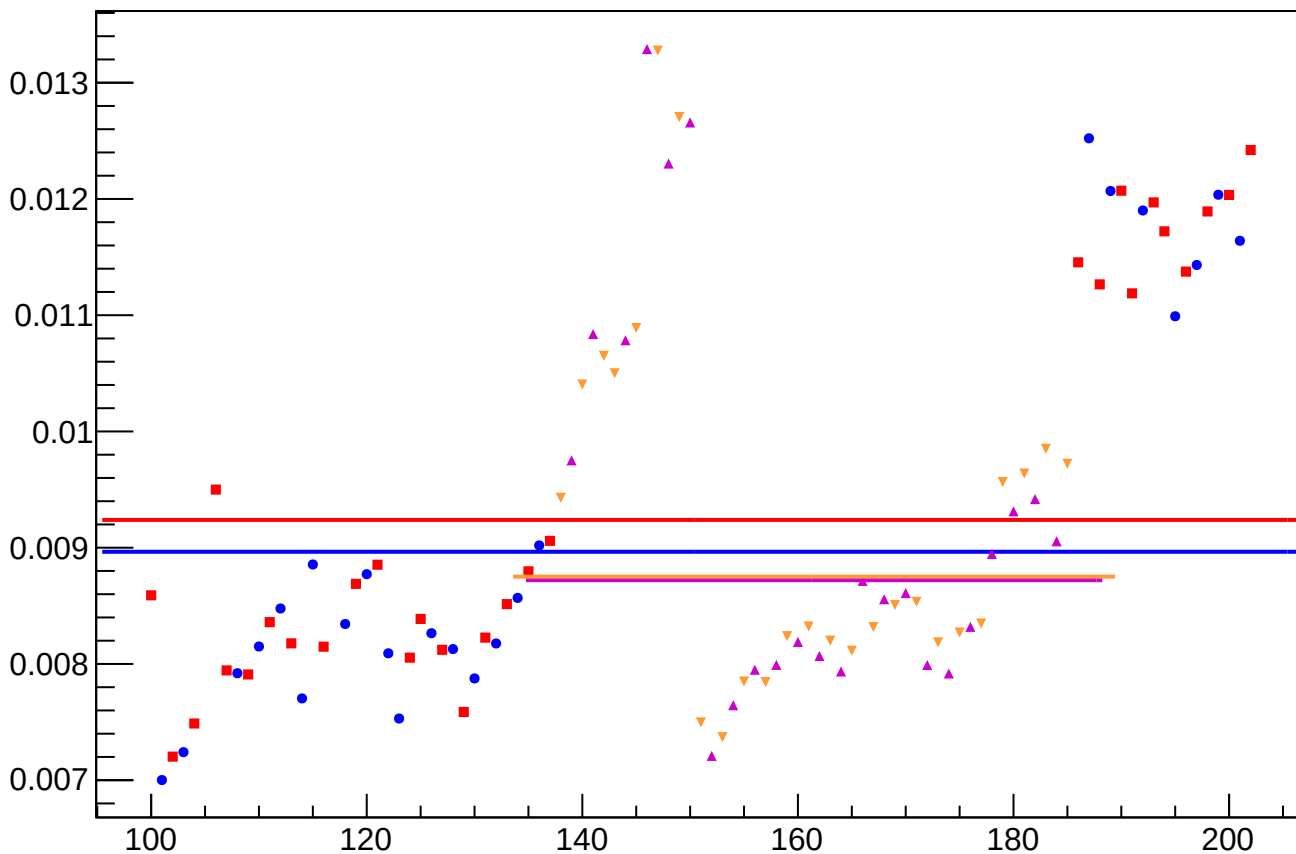
Right: -3.498+/-0.000 χ^2/NDF : 59500349324.8/52

In: -2.814+/-0.000 χ^2/NDF : 134897139106.2/46

Out: -2.803+/-0.000 χ^2/NDF : 149664277831.5/53

All: -2.808+/-0.000 χ^2/NDF : 284585233760.9

yield_bpm0i02Y_rms vs Slug, Sign Corrected



Right In: 0.009+/-0.000 χ^2/NDF : 746212.4/23

Left Out: 0.009+/-0.000 χ^2/NDF :663672.8/24

Right Out: 0.009+/-0.000 χ^2/NDF : 883961.4/28

Left In: 0.009+/-0.000 χ^2/NDF :747867.0/22

Left: 0.009+/-0.000 χ^2/NDF : 1411749.0/47

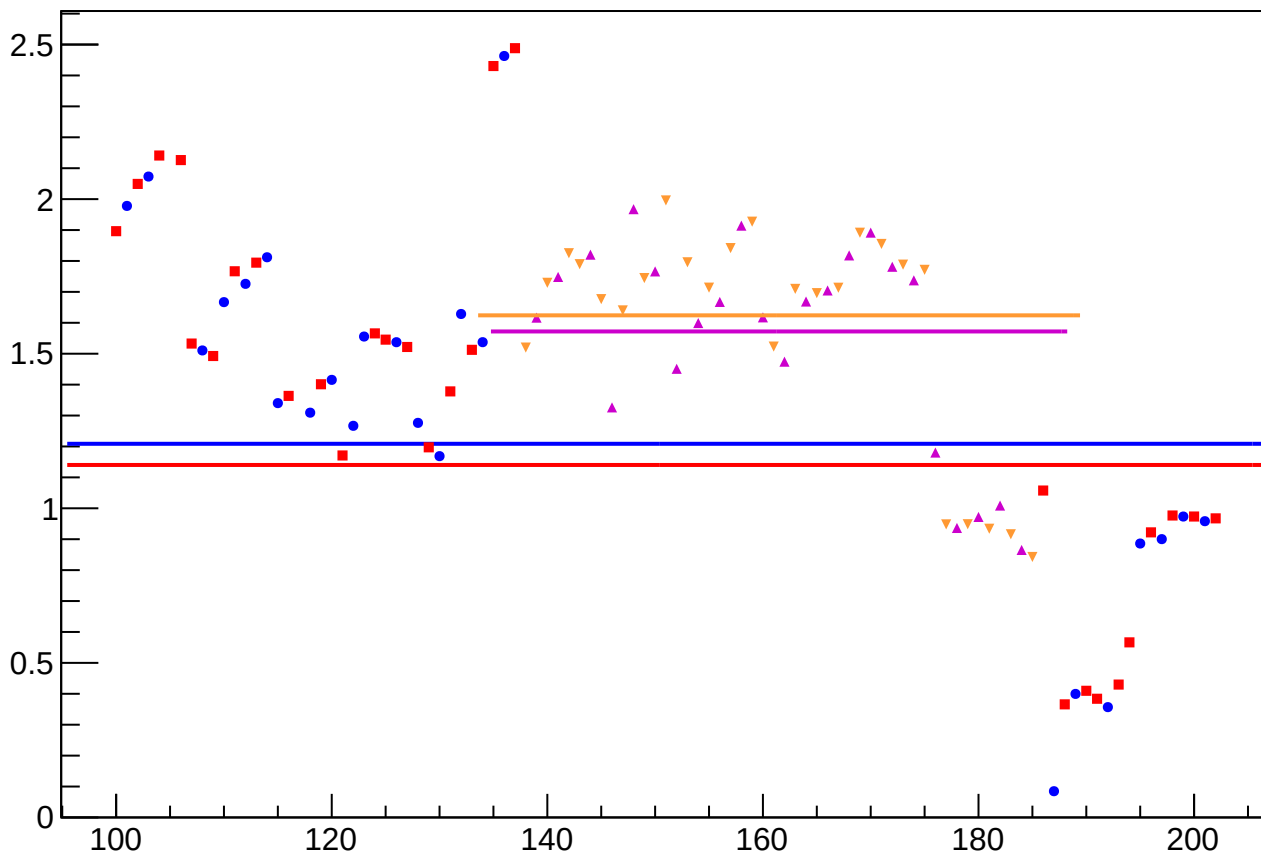
Right: 0.009+/-0.000 χ^2/NDF : 1640728.0/52

In: 0.009+/-0.000 χ^2/NDF :1503929.4/46

Out: 0.009+/-0.000 χ^2/NDF :1590052.9/53

All: 0.009+/-0.000 χ^2/NDF : 3100052.5/100

yield_bpm0i02aX_mean vs Slug, Sign Corrected



Right In: 1.209+/-0.000 χ^2/NDF : 26871244616.7/23

Left Out: 1.624+/-0.000 χ^2/NDF : 16631112386.4/24

Right Out: 1.140+/-0.000 χ^2/NDF : 32493599579.6/28

Left In: 1.572+/-0.000 χ^2/NDF : 14230484809.4/22

Left: 1.599+/-0.000 χ^2/NDF : 31067753064.6/47

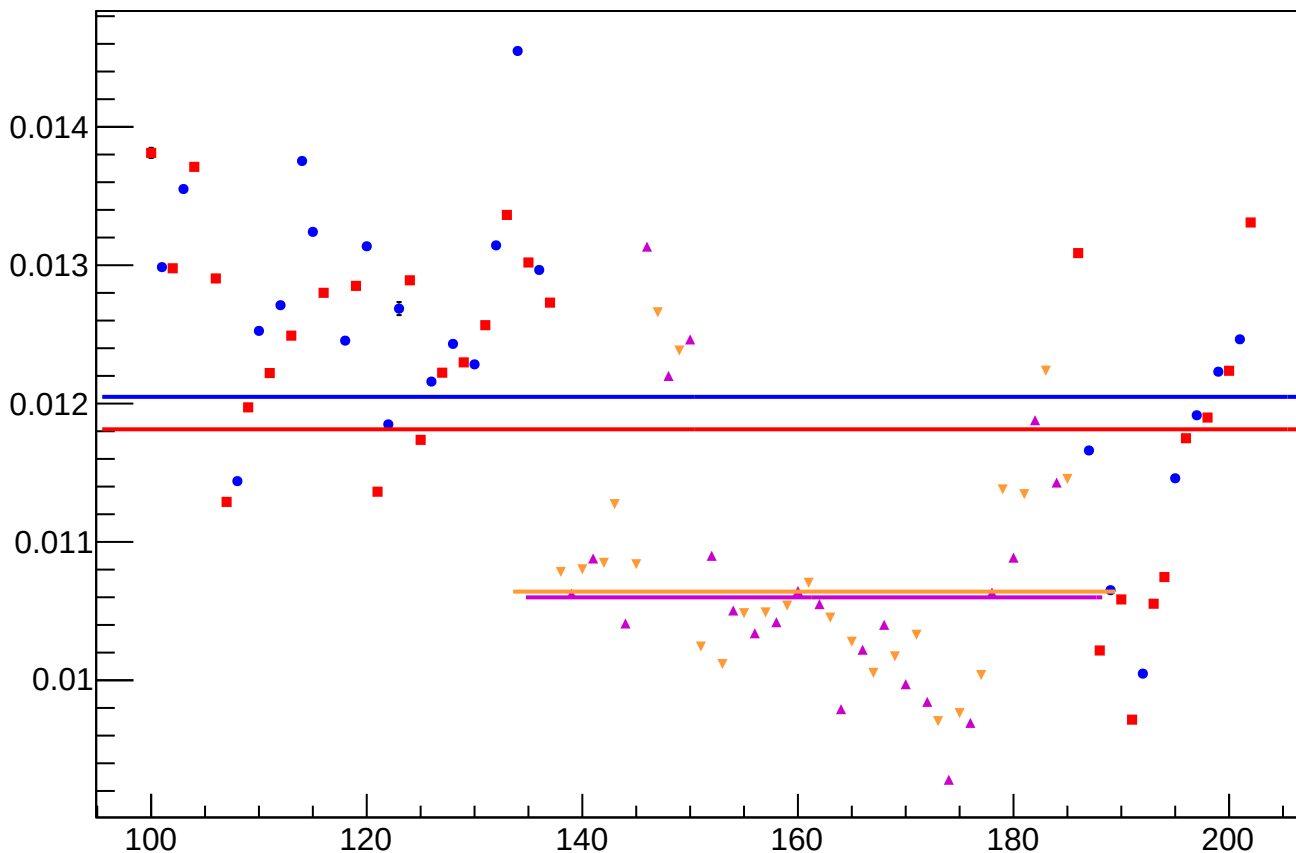
Right: 1.171+/-0.000 χ^2/NDF : 59562664638.2/52

In: 1.448+/-0.000 χ^2/NDF : 47769246767.2/46

Out: 1.443+/-0.000 χ^2/NDF : 62829356089.6/53

All: 1.445+/-0.000 χ^2/NDF : 110601756454.7

yield_bpm0i02aX_rms vs Slug, Sign Corrected



Right In: 0.012 $\pm$ 0.000 χ^2 /NDF: 157291.6/23

Left Out: 0.011 $\pm$ 0.000 χ^2 /NDF:159760.9/24

Right Out: 0.012 $\pm$ 0.000 χ^2 /NDF: 211087.9/28

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

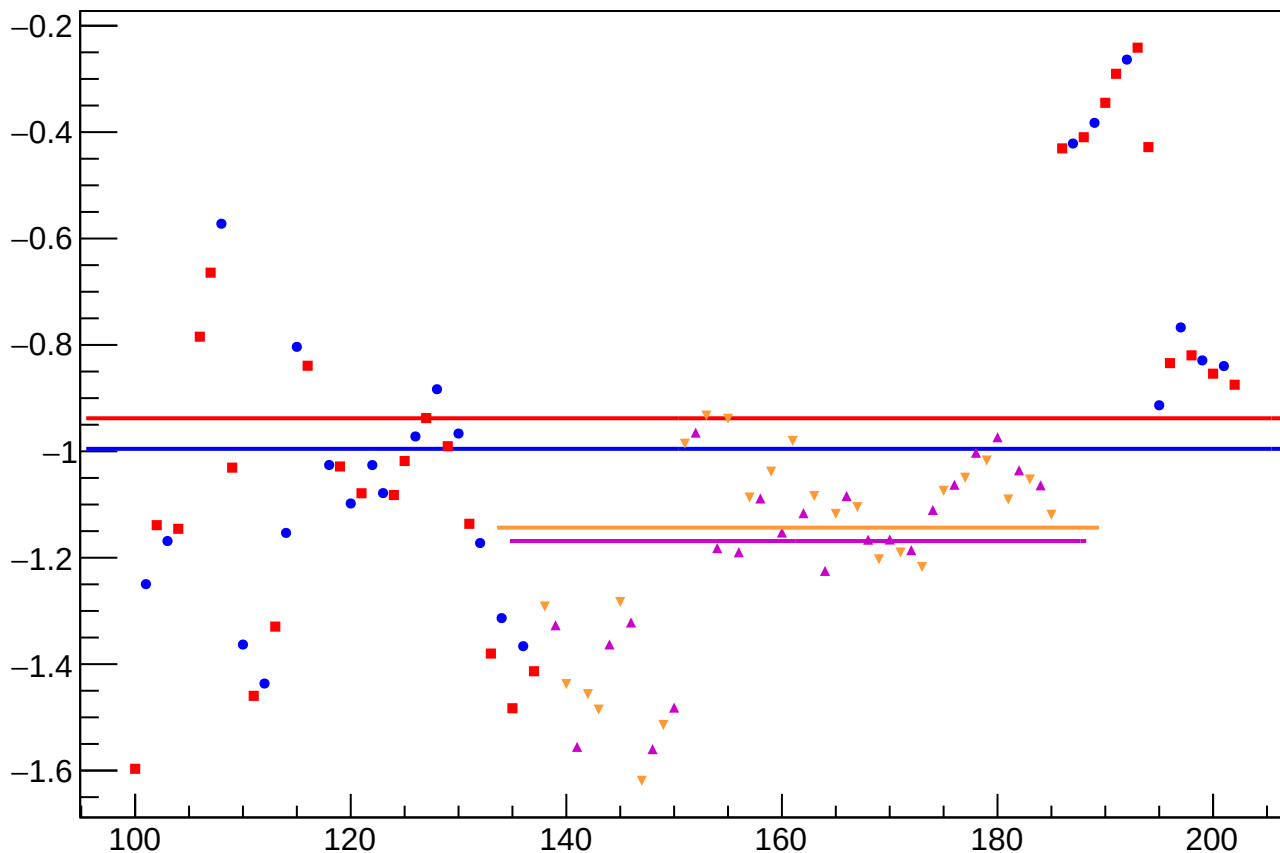
Right: 0.012 $\pm$ 0.000 χ^2 /NDF: 373019.9/52

In: 0.011 $\pm$ 0.000 χ^2 /NDF:574011.5/46

Out: 0.011 $\pm$ 0.000 χ^2 /NDF:531892.0/53

All: 0.011 $\pm$ 0.000 χ^2 /NDF: 1105948.5/100

yield_bpm0i02aY_mean vs Slug, Sign Corrected



Right In: -0.995 ± 0.000 $\chi^2/\text{NDF}: 10740143427.4/23$

Left Out: -1.143 ± 0.000 $\chi^2/\text{NDF}: 7976364534.0/24$

Right Out: -0.938 ± 0.000 $\chi^2/\text{NDF}: 15755026213.3/28$

Left In: -1.169 ± 0.000 $\chi^2/\text{NDF}: 6362643368.6/22$

Left: -1.156 ± 0.000 $\chi^2/\text{NDF}: 14424995220.9/47$

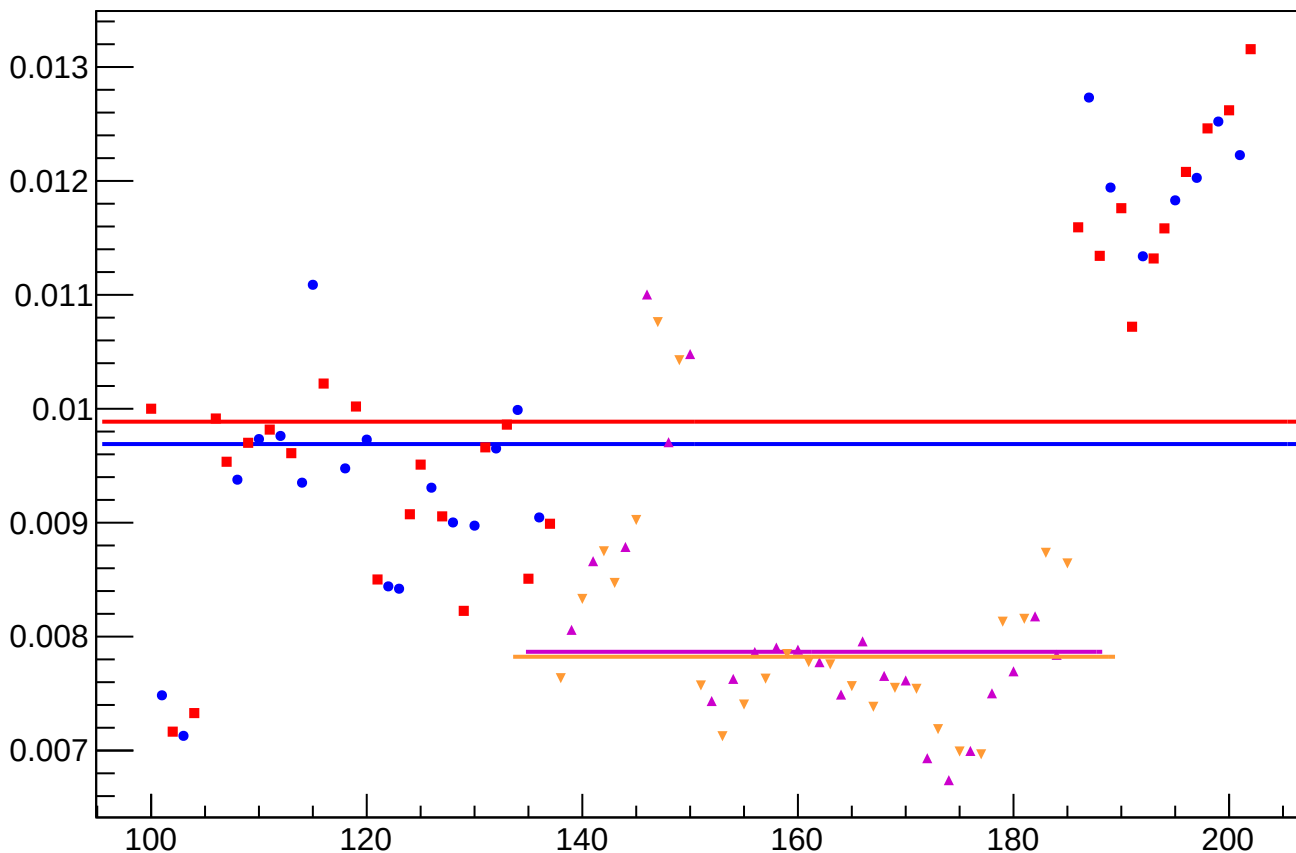
Right: -0.965 ± 0.000 $\chi^2/\text{NDF}: 26694630258.1/52$

In: -1.116 ± 0.000 $\chi^2/\text{NDF}: 19490403053.1/46$

Out: -1.079 ± 0.000 $\chi^2/\text{NDF}: 27452067781.3/53$

All: -1.097 ± 0.000 $\chi^2/\text{NDF}: 47214724739.1/100$

yield_bpm0i02aY_rms vs Slug, Sign Corrected



Right In: 0.010+/-0.000 χ^2/NDF : 625756.0/23

Left Out: 0.008+/-0.000 χ^2/NDF :336387.6/24

Right Out: 0.010+/-0.000 χ^2/NDF : 735295.9/28

Left In: 0.008+/-0.000 χ^2/NDF :379901.3/22

Left: 0.008+/-0.000 χ^2/NDF : 716803.8/47

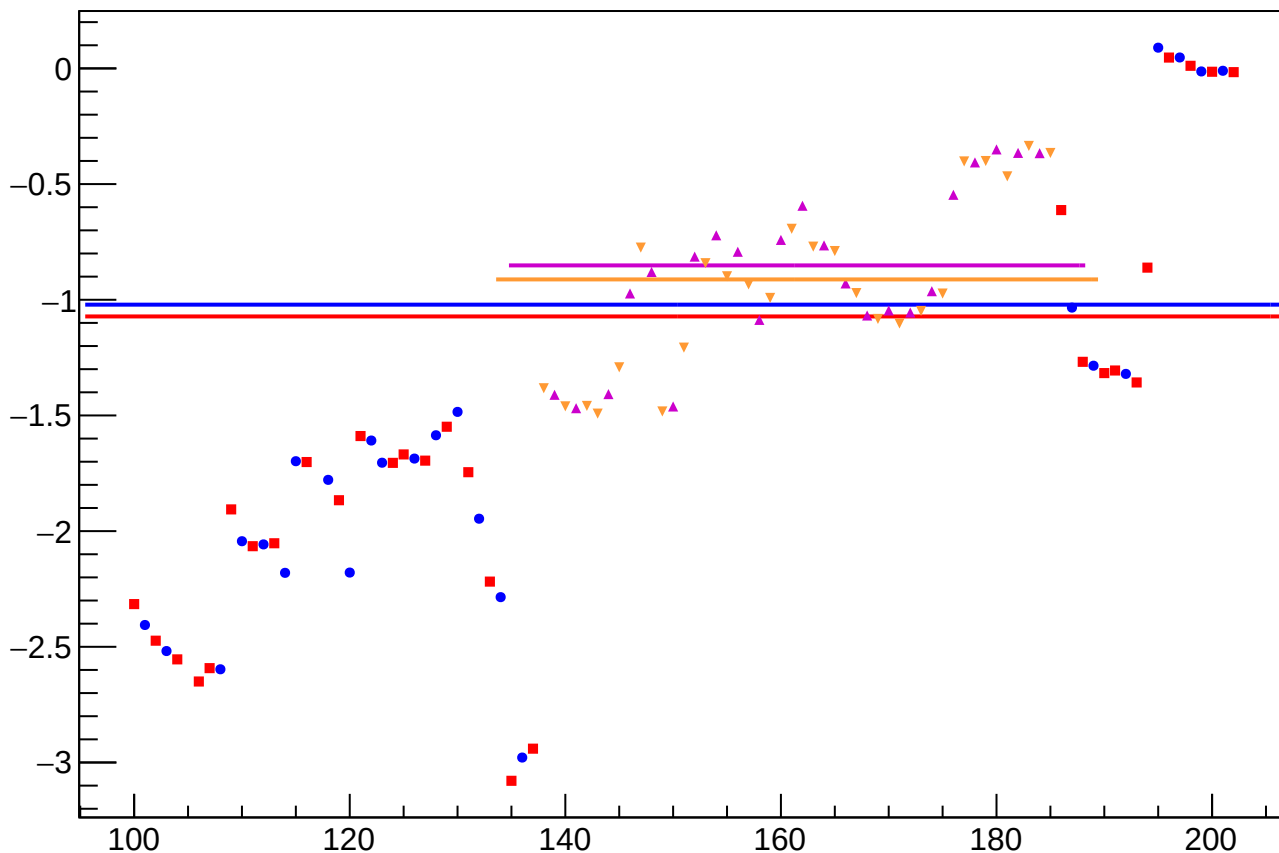
Right: 0.010+/-0.000 χ^2/NDF : 1365716.2/52

In: 0.008+/-0.000 χ^2/NDF :1534219.7/46

Out: 0.008+/-0.000 χ^2/NDF :1821526.2/53

All: 0.008+/-0.000 χ^2/NDF : 3356817.6/100

yield_bpm0i05X_mean vs Slug, Sign Corrected



Right In: -1.021+/-0.000

χ^2/NDF : 288941427346.7/23

Left: -0.882+/-0.000

χ^2/NDF : 96285672564.6/47

Left Out: -0.912+/-0.000

χ^2/NDF : 49039425818.1/24

Right: -1.050+/-0.000

χ^2/NDF : 595302680547.4/52

Right Out: -1.072+/-0.000

χ^2/NDF : 305984042210.8/28

In: -0.914+/-0.000

χ^2/NDF : 340013728773.5/46

Out: -0.981+/-0.000

χ^2/NDF : 359942229261.4/53

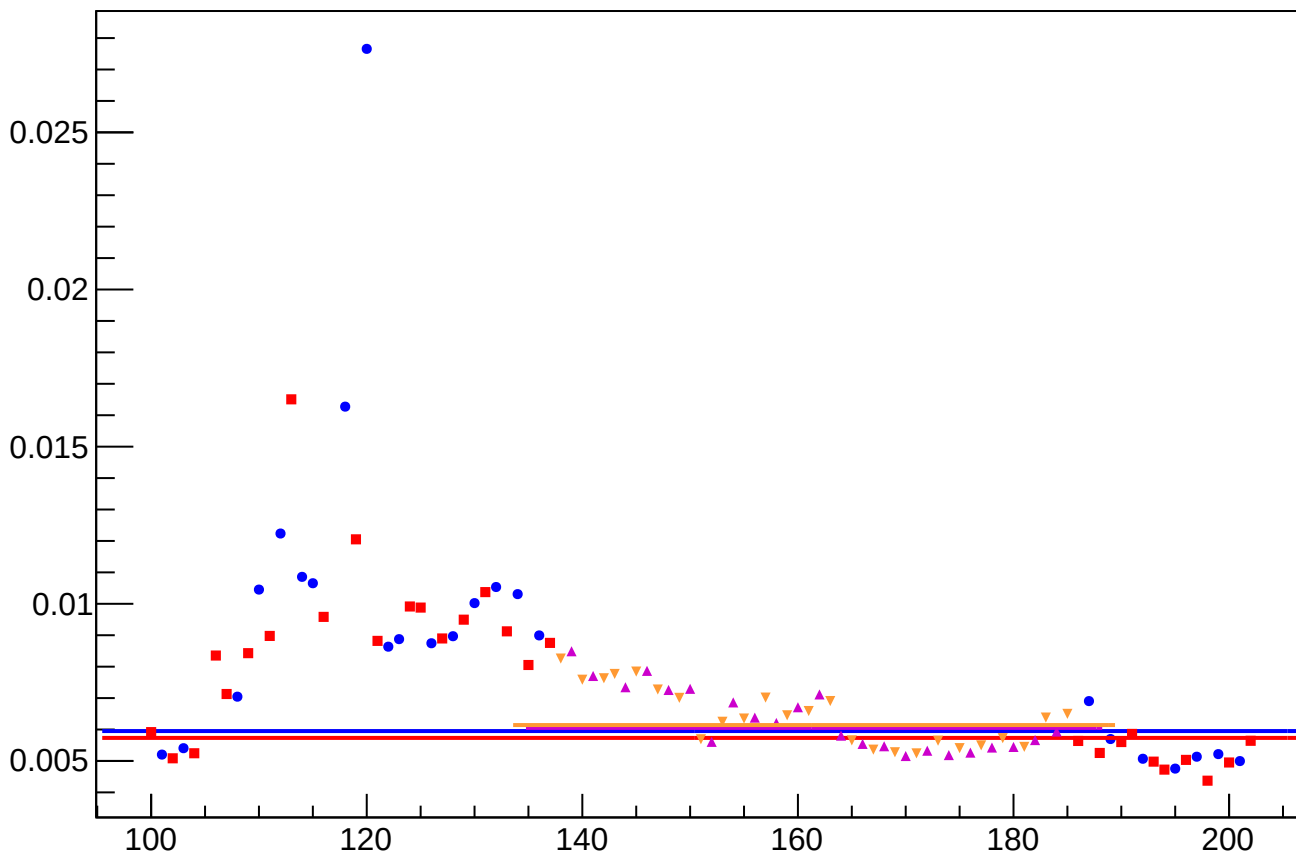
Left In: -0.851+/-0.000

χ^2/NDF : 46438446008.2/22

All: -0.950+/-0.000

χ^2/NDF : 701596576259.2

yield_bpm0i05X_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 1937972.4/23

Left Out: 0.006+/-0.000 χ^2/NDF : 637765.4/24

Right Out: 0.006+/-0.000 χ^2/NDF : 1878298.7/28

Left In: 0.006+/-0.000 χ^2/NDF : 697577.8/22

Left: 0.006+/-0.000 χ^2/NDF : 1338871.2/47

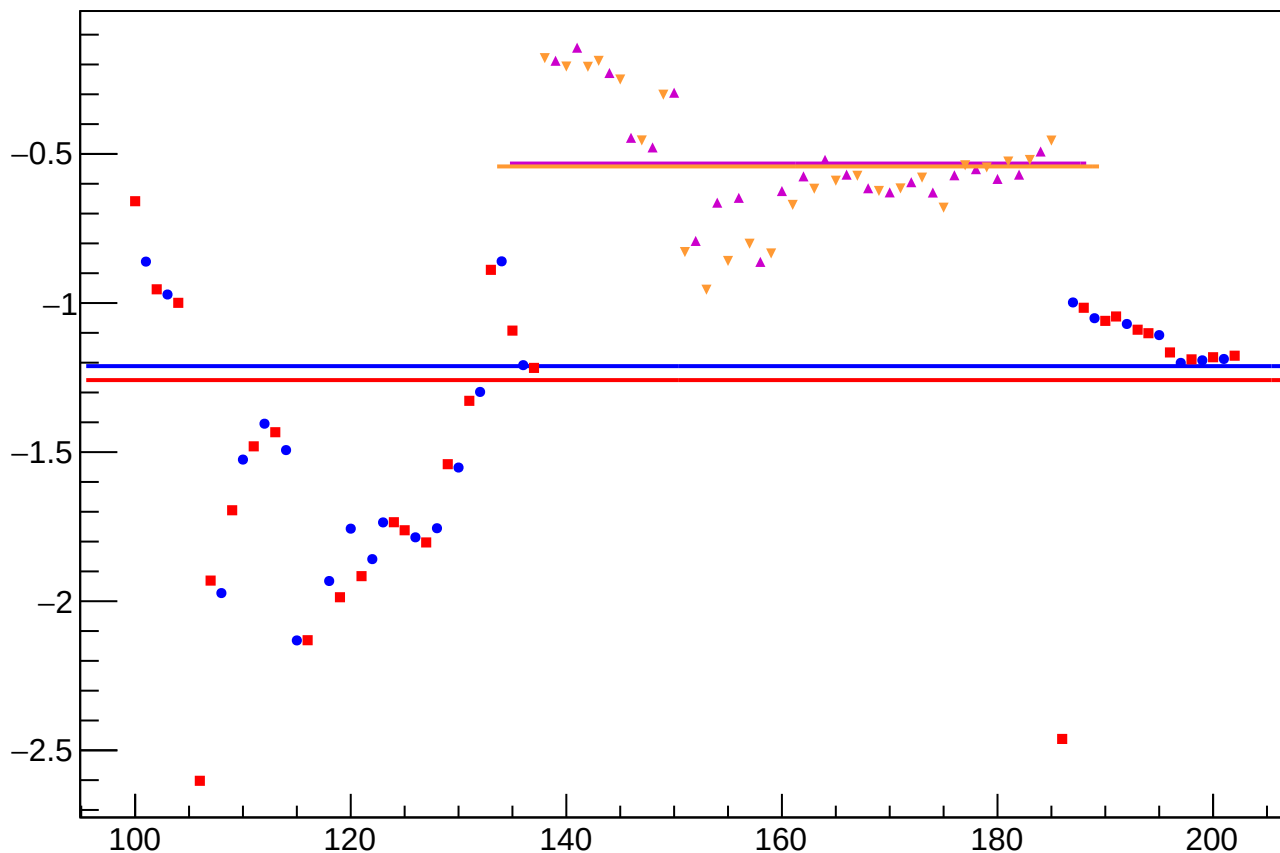
Right: 0.006+/-0.000 χ^2/NDF : 3830088.6/52

In: 0.006+/-0.000 χ^2/NDF : 2638854.1/46

Out: 0.006+/-0.000 χ^2/NDF : 2580267.3/53

All: 0.006+/-0.000 χ^2/NDF : 5220911.0/100

yield_bpm0i05Y_mean vs Slug, Sign Corrected



Right In: -1.212 $\pm$ 0.000 χ^2/NDF : 26231470201.4/23

Left Out: -0.542 $\pm$ 0.000 χ^2/NDF : 47268284910.3/24

Right Out: -1.258 $\pm$ 0.000 χ^2/NDF : 78538000834.2/28

Left In: -0.532 $\pm$ 0.000 χ^2/NDF : 30715235426.8/22

Left: -0.537 $\pm$ 0.000 χ^2/NDF : 78028833870.1/47

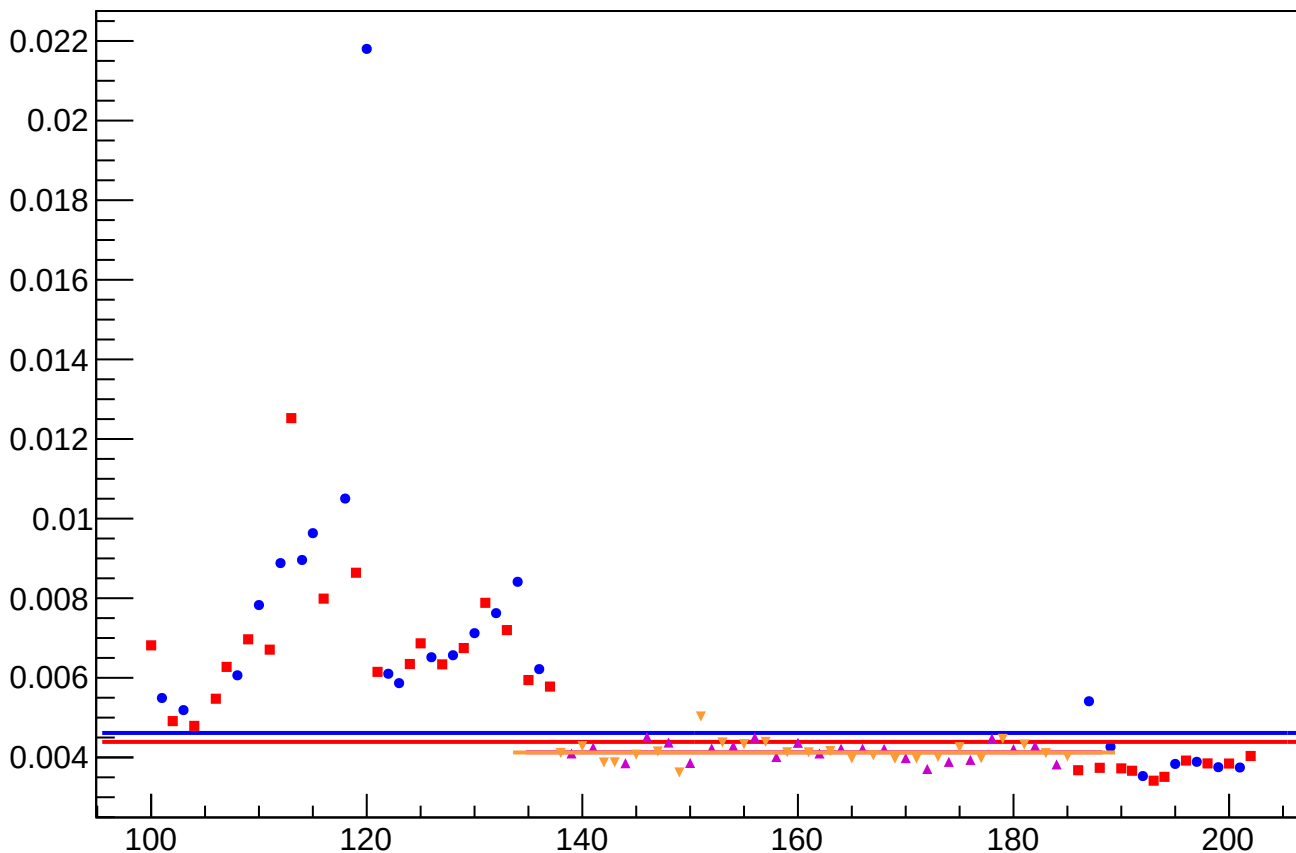
Right: -1.238 $\pm$ 0.000 χ^2/NDF : 105303281902.1/52

In: -0.744 $\pm$ 0.000 χ^2/NDF : 191850389815.8/46

Out: -0.803 $\pm$ 0.000 χ^2/NDF : 311322230061.2/53

All: -0.776 $\pm$ 0.000 χ^2/NDF : 505677882412.7

yield_bpm0i05Y_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 1898388.4/23

Left Out: 0.004+/-0.000 χ^2/NDF :113033.9/24

Right Out: 0.004+/-0.000 χ^2/NDF : 1826698.7/28

Left In: 0.004+/-0.000 χ^2/NDF :93111.2/22

Left: 0.004+/-0.000 χ^2/NDF : 206172.1/47

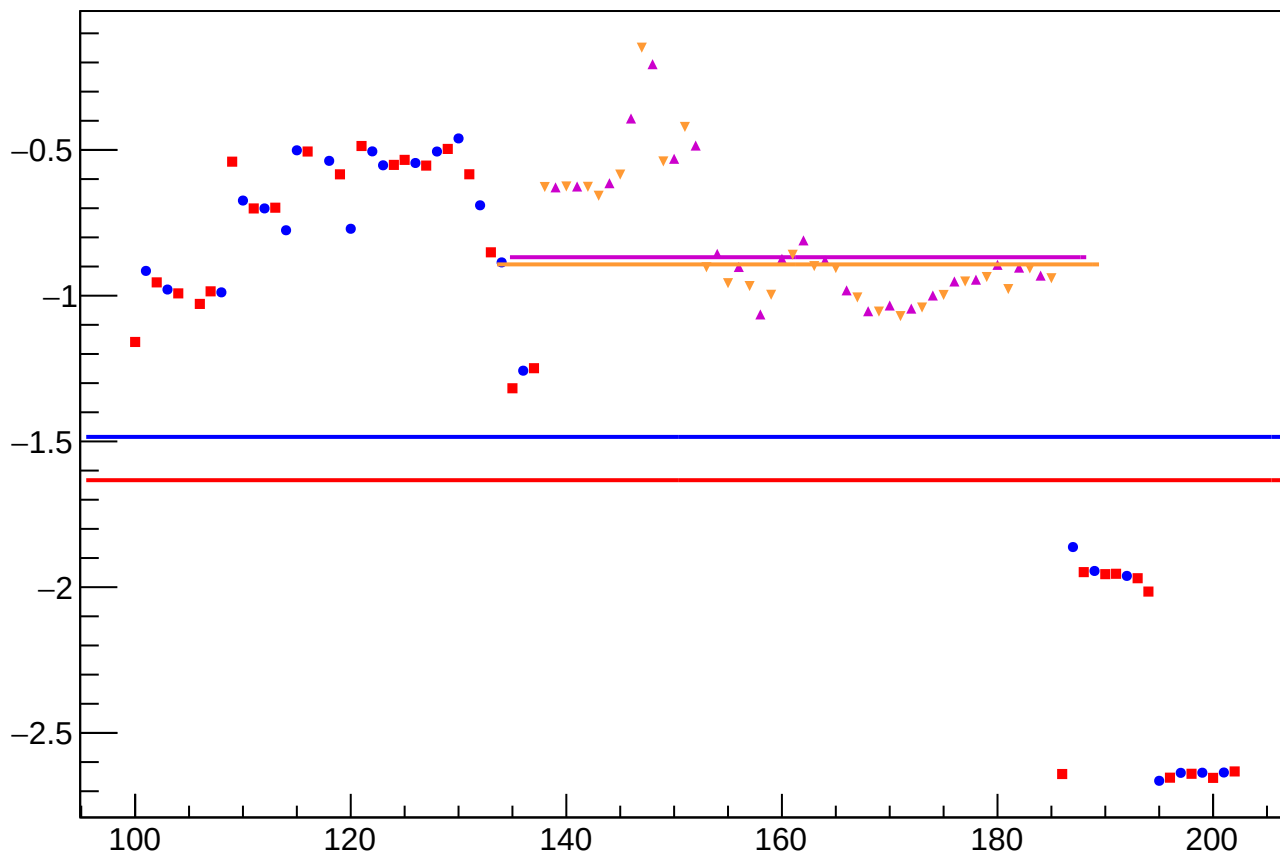
Right: 0.004+/-0.000 χ^2/NDF : 3749754.5/52

In: 0.004+/-0.000 χ^2/NDF :2129316.9/46

Out: 0.004+/-0.000 χ^2/NDF :1990722.8/53

All: 0.004+/-0.000 χ^2/NDF : 4125287.2/100

yield_bpm0i07X_mean vs Slug, Sign Corrected



Right In: -1.484+/-0.000

χ²/NDF: 200961889237.5/23

Left: -0.880+/-0.000

χ²/NDF: 84980637247.0/47

Right: -1.573+/-0.000

χ²/NDF: 486587345085.7/52

Left Out: -0.893+/-0.000

χ²/NDF: 40787012603.8/24

In: -1.032+/-0.000

χ²/NDF: 357846084062.3/46

Right Out: -1.633+/-0.000

χ²/NDF: 280267222935.0/28

Out: -1.152+/-0.000

χ²/NDF: 536867881596.5/53

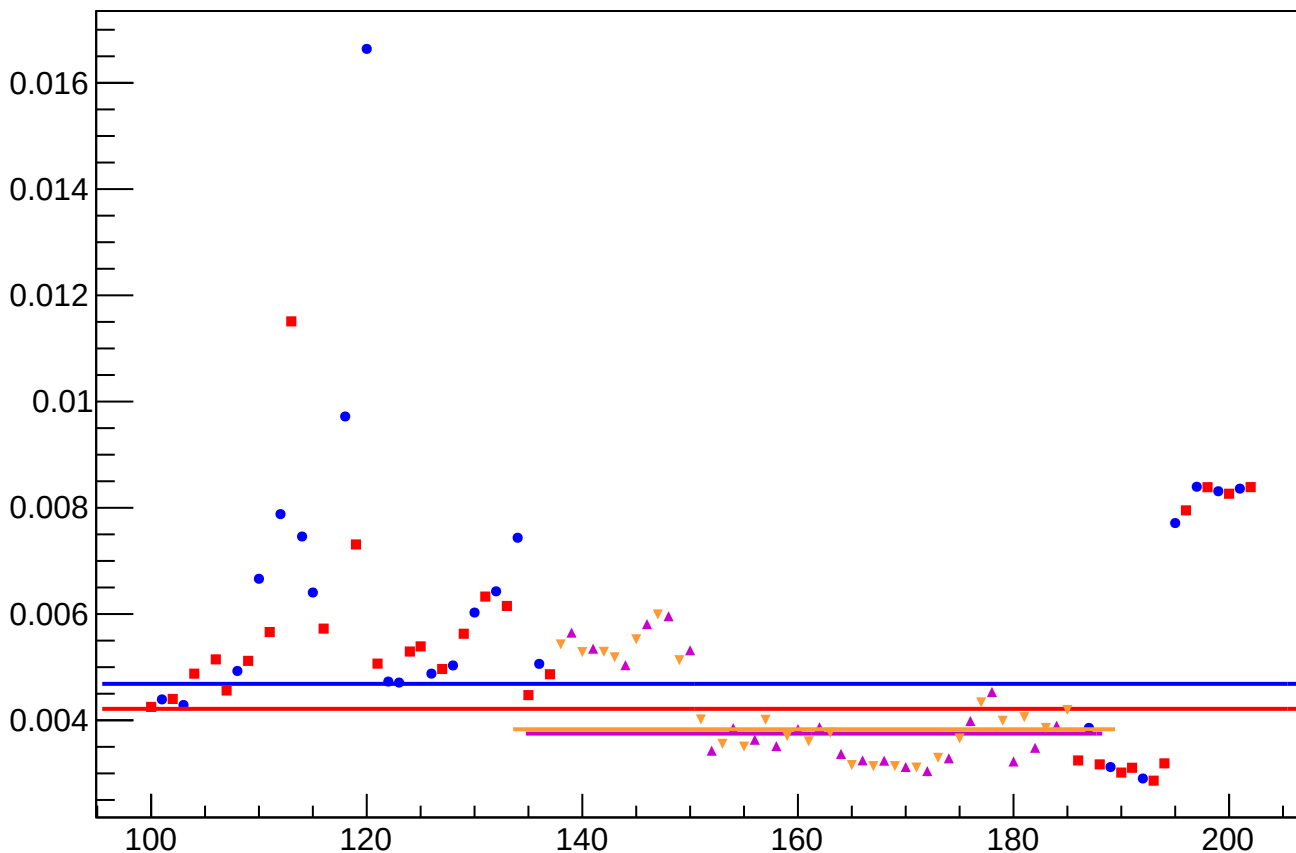
Left In: -0.868+/-0.000

χ²/NDF: 43853190177.2/22

All: -1.096+/-0.000

χ²/NDF: 906248744724.7

yield_bpm0i07X_rms vs Slug, Sign Corrected



Right In: 0.005 $\pm$ 0.000 χ^2 /NDF: 2846974.1/23

Left Out: 0.004 $\pm$ 0.000 χ^2 /NDF:1179801.7/24

Right Out: 0.004 $\pm$ 0.000 χ^2 /NDF: 3051467.1/28

Left In: 0.004 $\pm$ 0.000 χ^2 /NDF:1288490.4/22

Left: 0.004 $\pm$ 0.000 χ^2 /NDF: 2475792.1/47

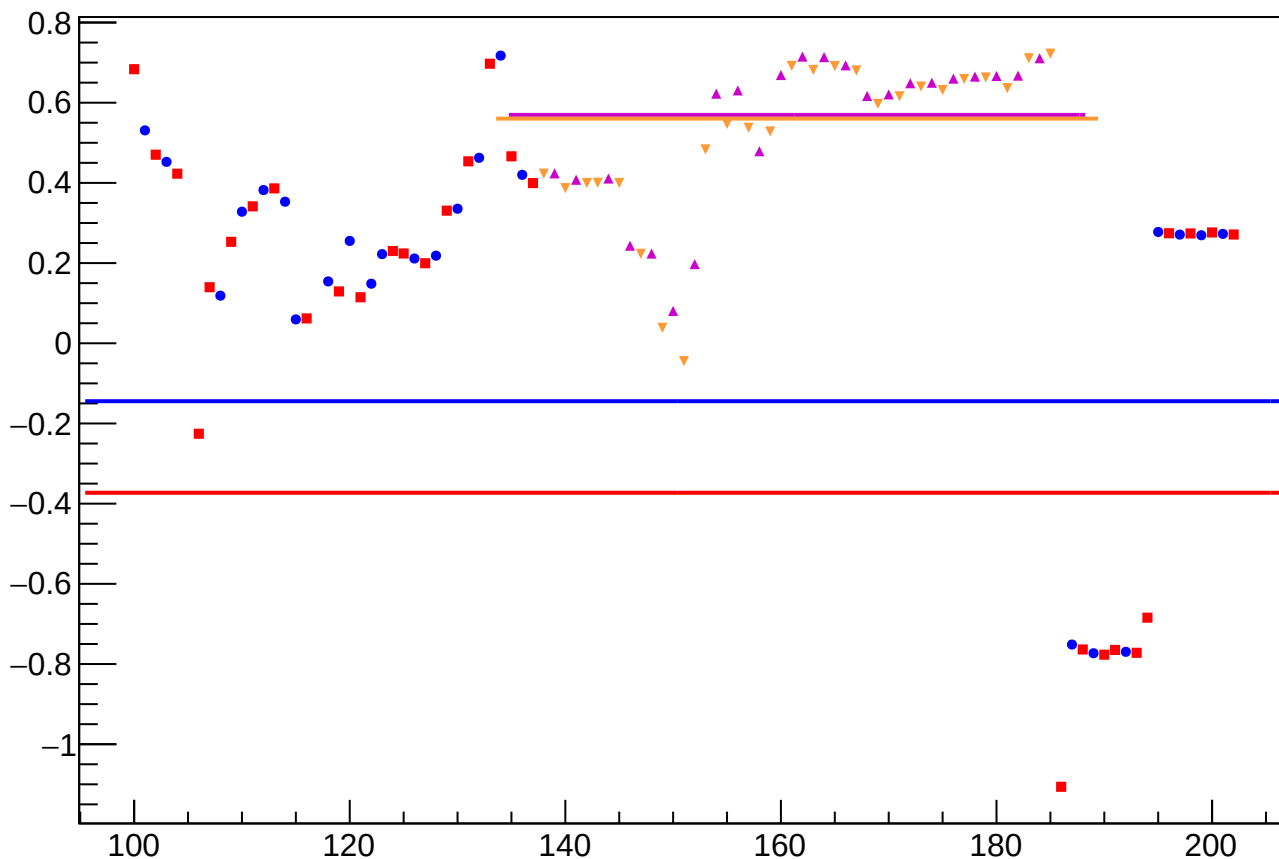
Right: 0.004 $\pm$ 0.000 χ^2 /NDF: 6006110.7/52

In: 0.004 $\pm$ 0.000 χ^2 /NDF:4657777.3/46

Out: 0.004 $\pm$ 0.000 χ^2 /NDF:4347643.5/53

All: 0.004 $\pm$ 0.000 χ^2 /NDF: 9007231.2/100

yield_bpm0i07Y_mean vs Slug, Sign Corrected



Right In: -0.144+/-0.000 χ^2/NDF : 265763913060.9/23

Left Out: 0.560+/-0.000 χ^2/NDF : 45205806387.2/24

Right Out: -0.373+/-0.000 χ^2/NDF : 423720436194.7/28

Left In: 0.570+/-0.000 χ^2/NDF : 42104067973.0/22

Left: 0.565+/-0.000 χ^2/NDF : 87378176036.1/47

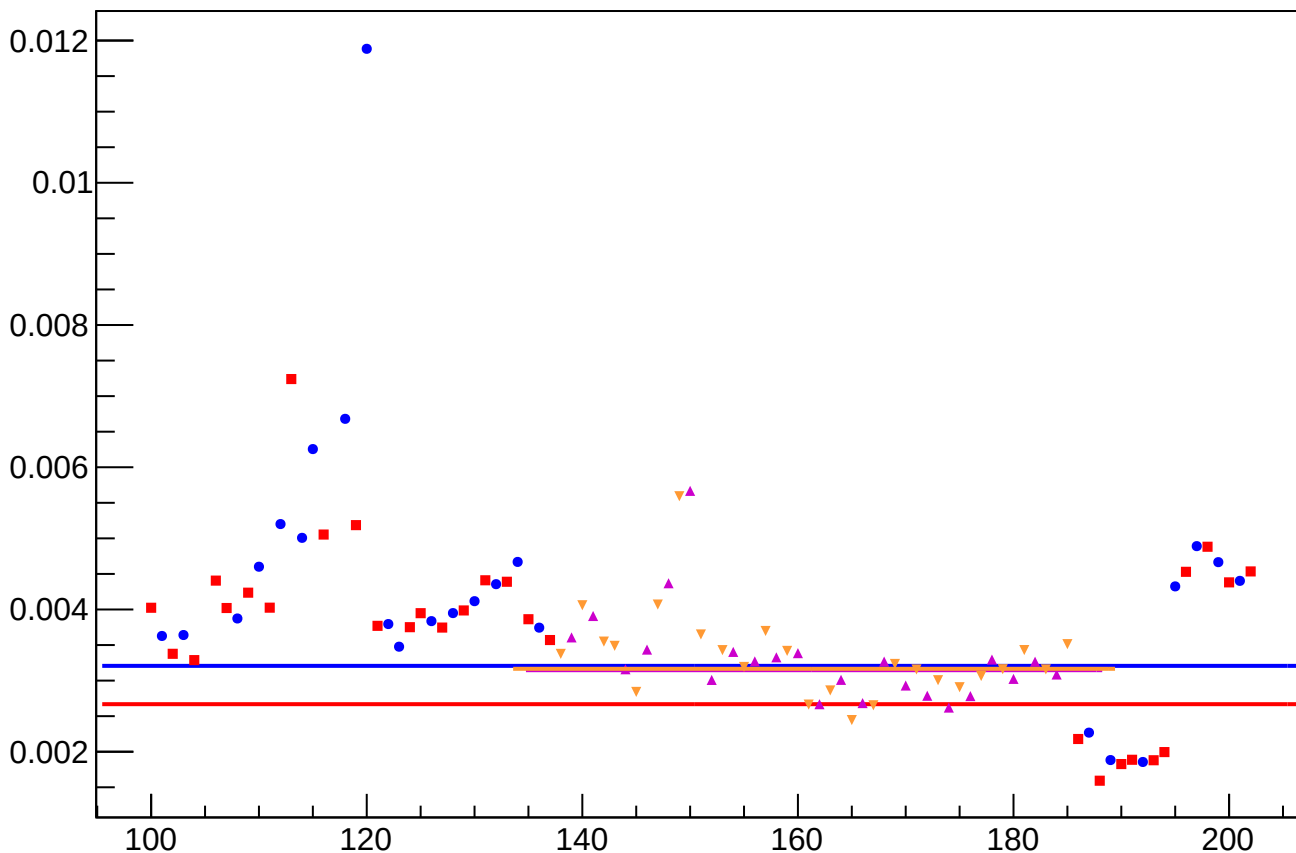
Right: -0.286+/-0.000 χ^2/NDF : 717813586892.8/52

In: 0.313+/-0.000 χ^2/NDF : 593380221131.4/46

Out: 0.122+/-0.000 χ^2/NDF : 1131601590687.0/53

All: 0.206+/-0.000 χ^2/NDF : 1774550317682.

yield_bpm0i07Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 2817228.7/23

Left Out: 0.003+/-0.000 χ^2/NDF : 744886.7/24

Right Out: 0.003+/-0.000 χ^2/NDF : 3908609.3/28

Left In: 0.003+/-0.000 χ^2/NDF : 716402.8/22

Left: 0.003+/-0.000 χ^2/NDF : 1461906.1/47

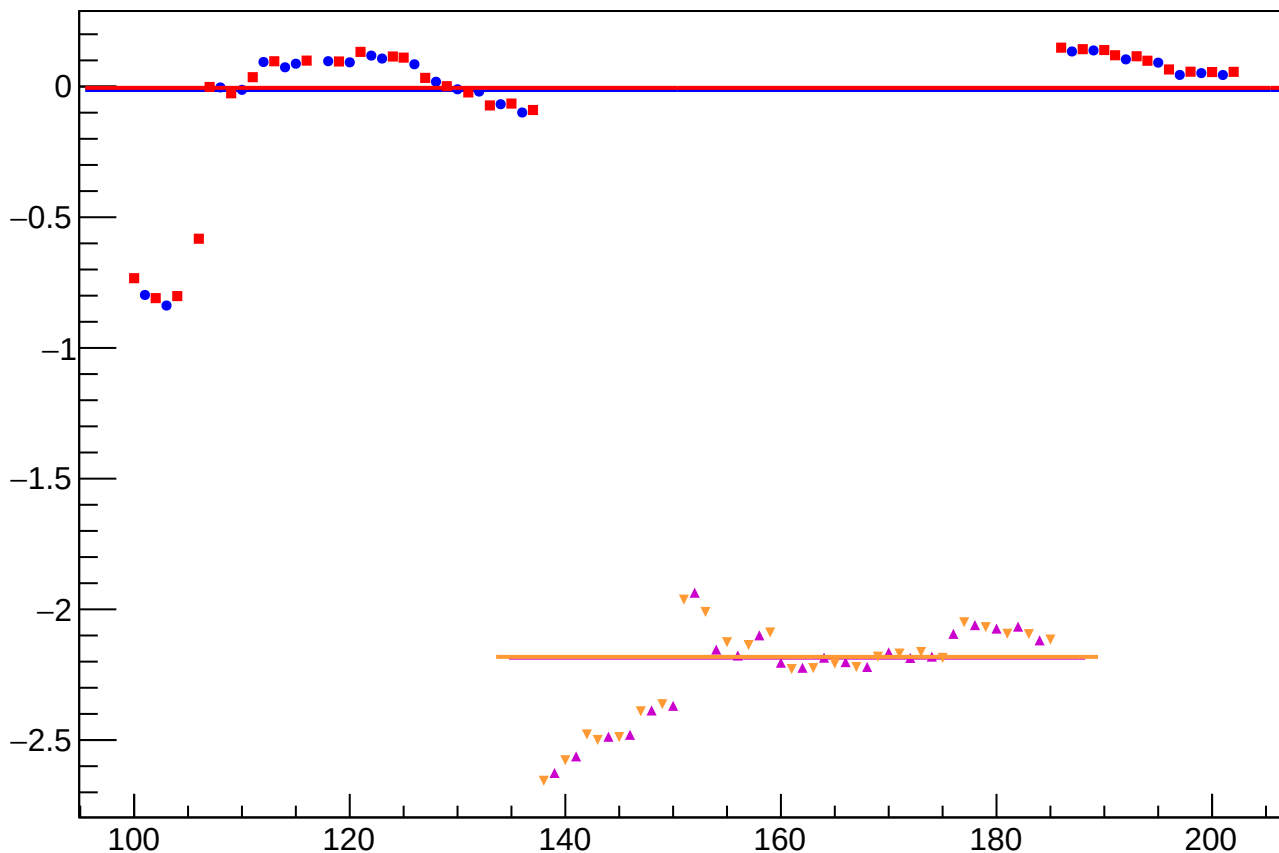
Right: 0.003+/-0.000 χ^2/NDF : 7041282.5/52

In: 0.003+/-0.000 χ^2/NDF : 3537795.4/46

Out: 0.003+/-0.000 χ^2/NDF : 5030227.9/53

All: 0.003+/-0.000 χ^2/NDF : 8718962.0/100

yield_bpm1i02X_mean vs Slug, Sign Corrected



Right In: -0.013 $\pm$ 0.000 χ^2 /NDF: 5722218088.9/23

Left Out: -2.182 $\pm$ 0.000 χ^2 /NDF: 4008829567.0/24

Right Out: -0.005 $\pm$ 0.000 χ^2 /NDF: 6861828982.8/28

Left In: -2.185 $\pm$ 0.000 χ^2 /NDF: 3372742534.3/22

Left: -2.183 $\pm$ 0.000 χ^2 /NDF: 7382310821.5/47

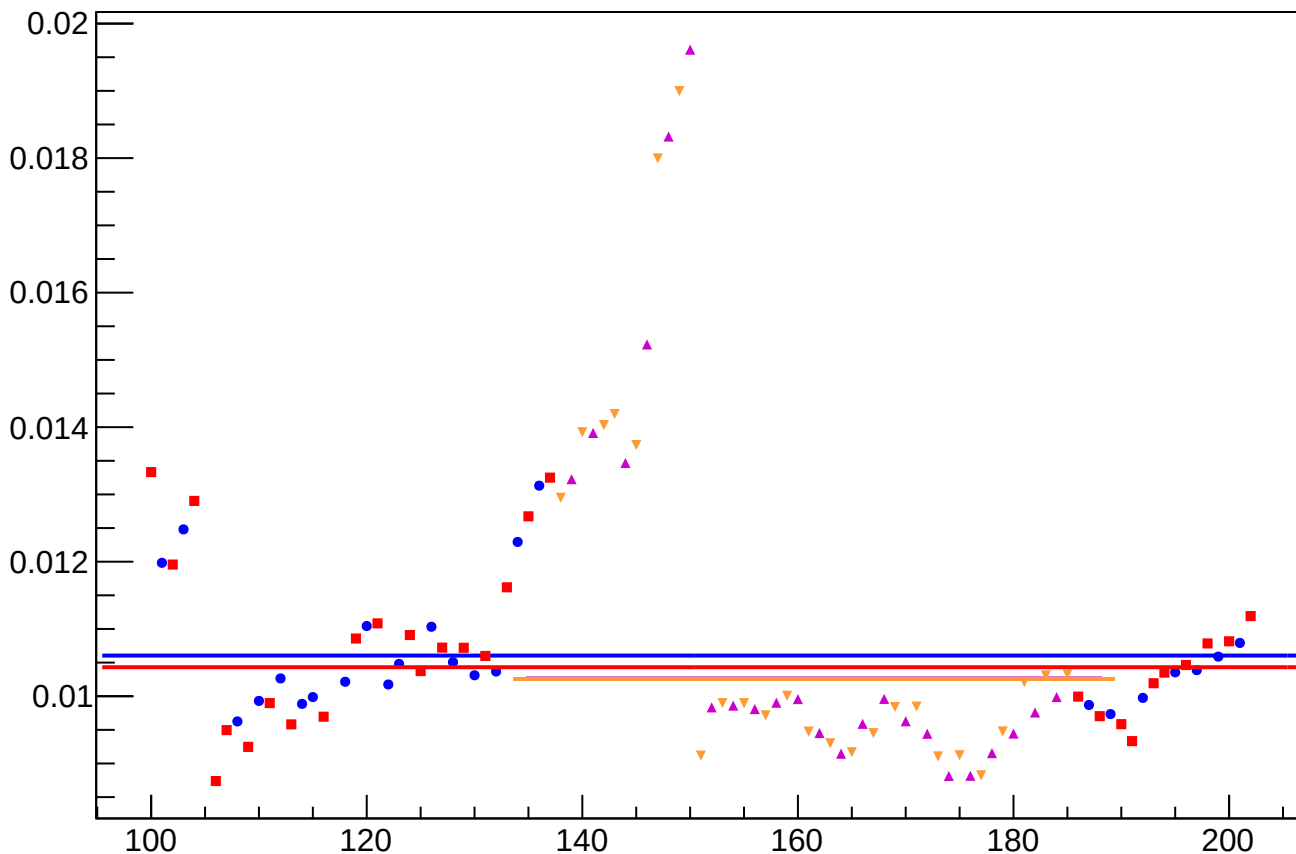
Right: -0.009 $\pm$ 0.000 χ^2 /NDF: 12587780369.1/52

In: -1.338 $\pm$ 0.000 χ^2 /NDF: 298370042133.9/46

Out: -1.263 $\pm$ 0.000 χ^2 /NDF: 346486746269.1/53

All: -1.298 $\pm$ 0.000 χ^2 /NDF: 645639723548.5

yield_bpm1i02X_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 149206.2/23

Left Out: 0.010+/-0.000 χ^2/NDF :1270617.6/24

Right Out: 0.010+/-0.000 χ^2/NDF : 214545.5/28

Left In: 0.010+/-0.000 χ^2/NDF :1340264.2/22

Left: 0.010+/-0.000 χ^2/NDF : 2610893.2/47

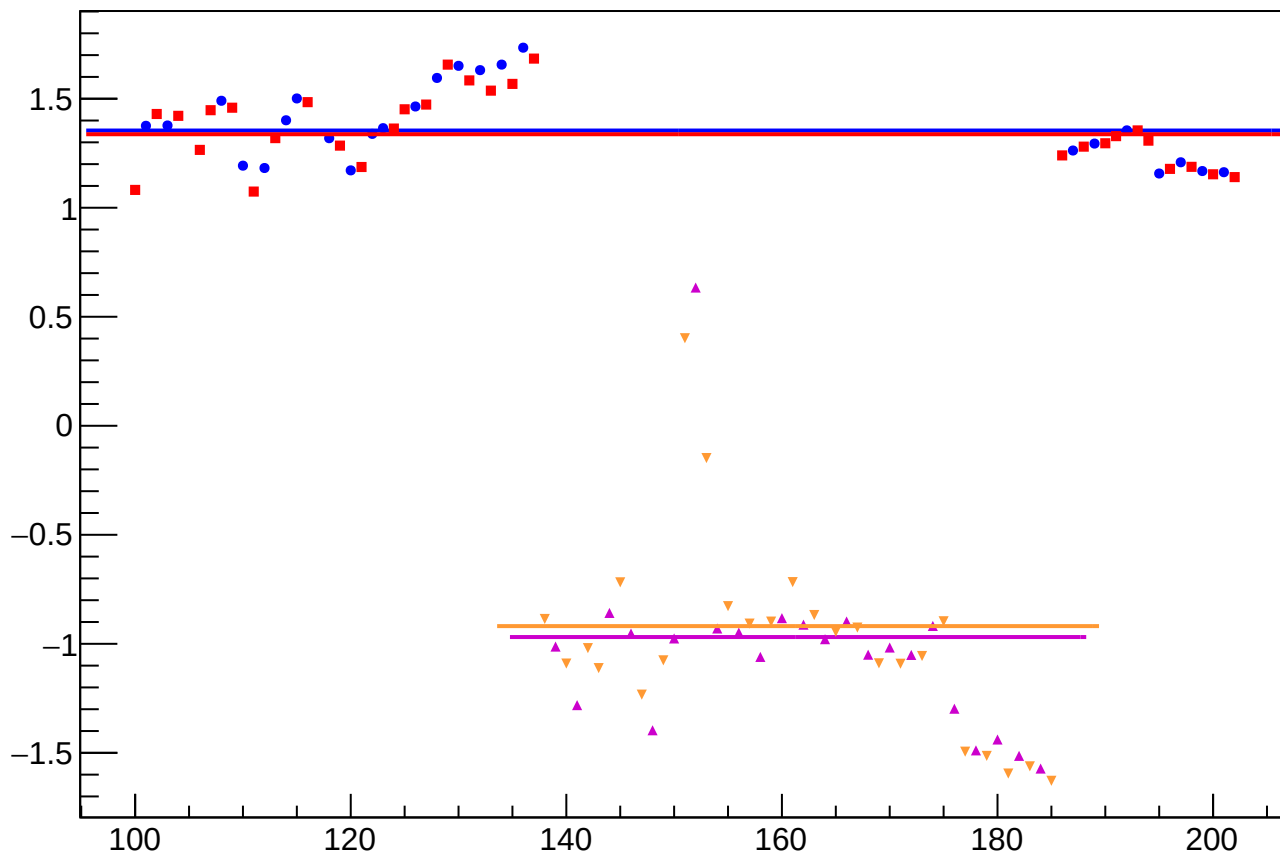
Right: 0.011+/-0.000 χ^2/NDF : 367069.4/52

In: 0.010+/-0.000 χ^2/NDF :1503646.0/46

Out: 0.010+/-0.000 χ^2/NDF :1489500.5/53

All: 0.010+/-0.000 χ^2/NDF : 2994371.8/100

yield_bpm1i02Y_mean vs Slug, Sign Corrected



Right In: 1.354+/-0.000

χ^2/NDF : 6158841645.6/23

Left Out: -0.919+/-0.000

χ^2/NDF : 55622252895.8/24

Right Out: 1.337+/-0.000

χ^2/NDF : 5010938715.4/28

Left In: -0.969+/-0.000

χ^2/NDF : 54895002535.8/22

Left: -0.943+/-0.000

χ^2/NDF : 110825900215.1/47

Right: 1.345+/-0.000

χ^2/NDF : 11201603739.1/52

In: 0.095+/-0.000

χ^2/NDF : 653106347817.1/46

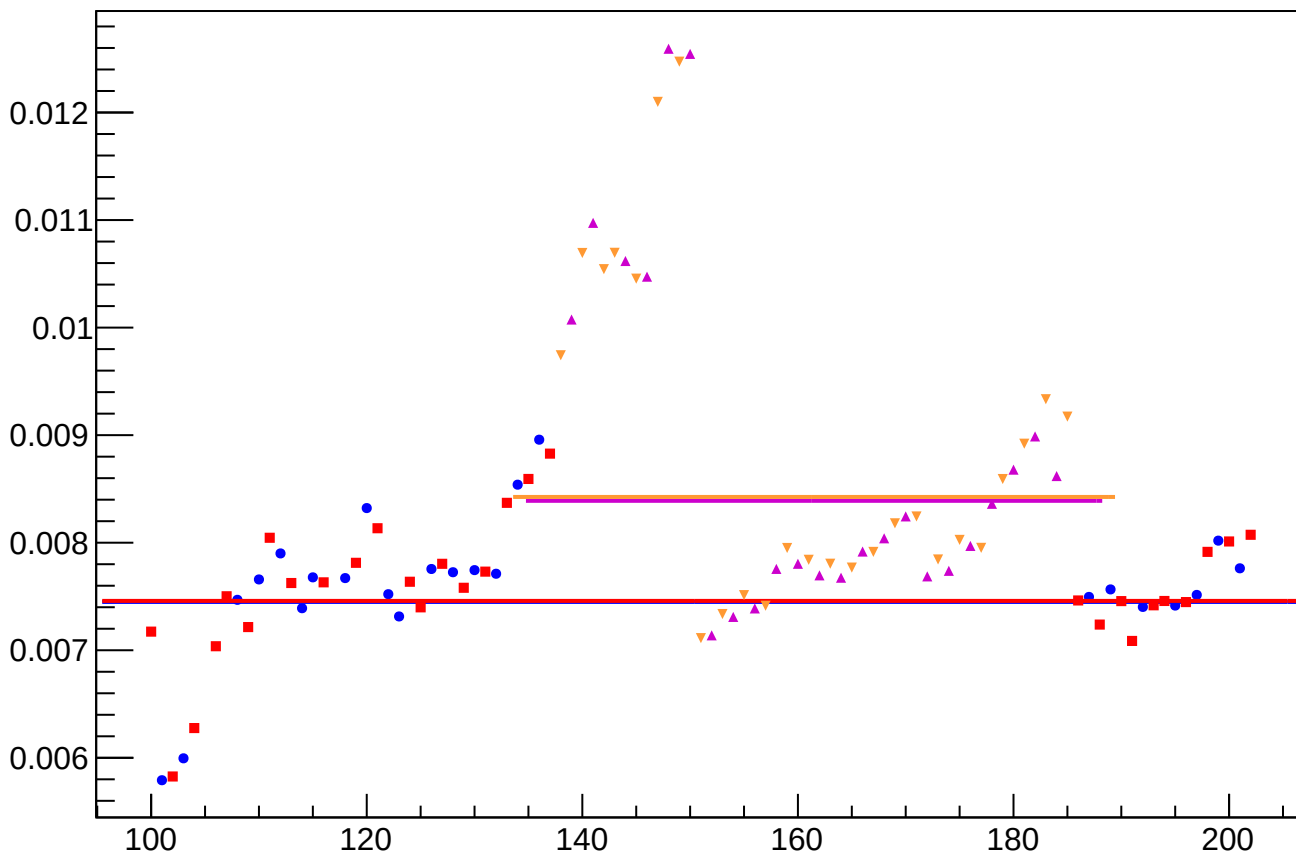
Out: 0.181+/-0.000

χ^2/NDF : 686011210611.9/53

All: 0.140+/-0.000

χ^2/NDF : 1340809984607.

yield_bpm1i02Y_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 242750.4/23

Left Out: 0.008+/-0.000 χ^2/NDF : 792337.0/24

Right Out: 0.007+/-0.000 χ^2/NDF : 196742.6/28

Left In: 0.008+/-0.000 χ^2/NDF : 839880.4/22

Left: 0.008+/-0.000 χ^2/NDF : 1632536.0/47

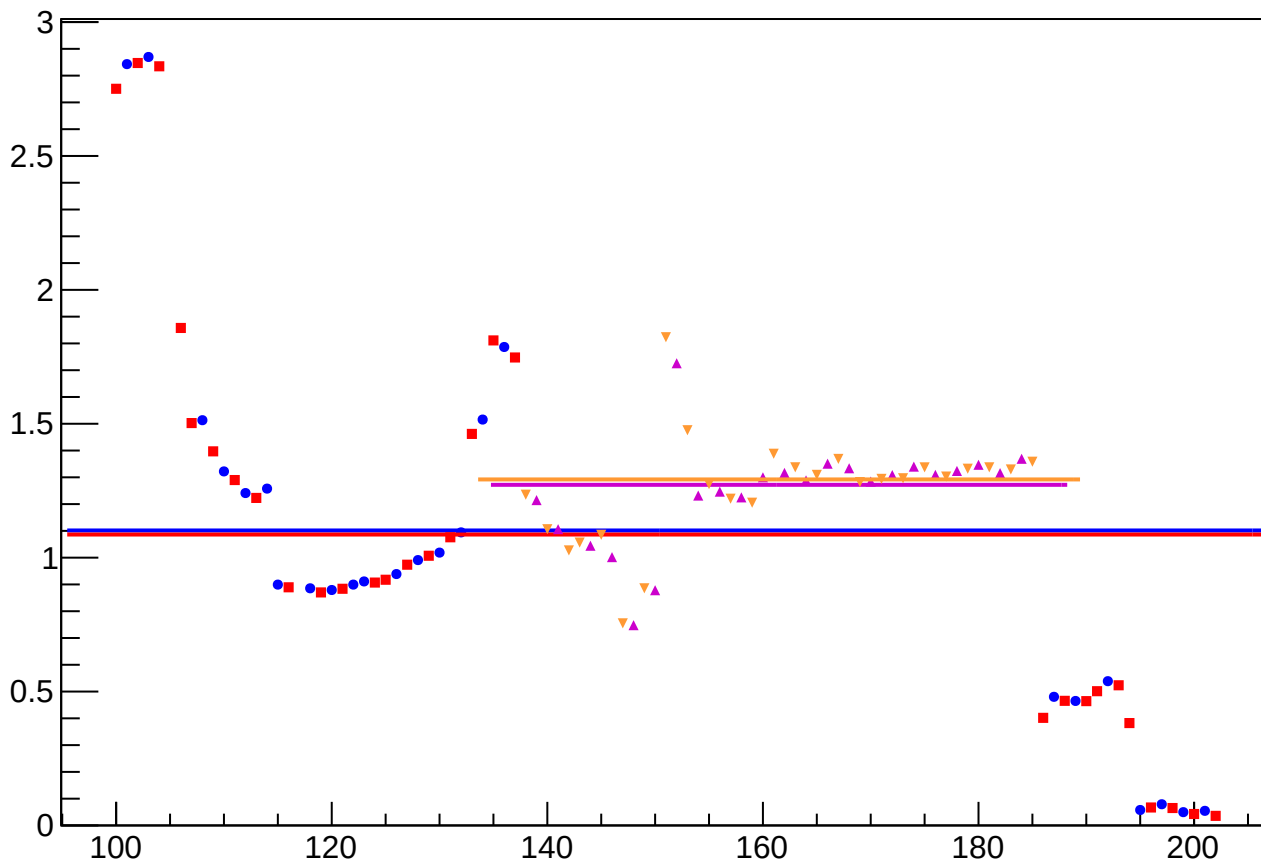
Right: 0.007+/-0.000 χ^2/NDF : 439513.0/52

In: 0.008+/-0.000 χ^2/NDF : 1276554.2/46

Out: 0.008+/-0.000 χ^2/NDF : 1218706.7/53

All: 0.008+/-0.000 χ^2/NDF : 2495269.7/100

yield_bpm1i04X_mean vs Slug, Sign Corrected



Right In: 1.102+/-0.000 χ^2/NDF : 100833709006.7/23

Left Out: 1.292+/-0.000 χ^2/NDF : 9305298695.5/24

Right Out: 1.086+/-0.000 χ^2/NDF : 103904113913.5/28

Left In: 1.272+/-0.000 χ^2/NDF : 7573930981.2/22

Left: 1.282+/-0.000 χ^2/NDF : 16930321584.4/47

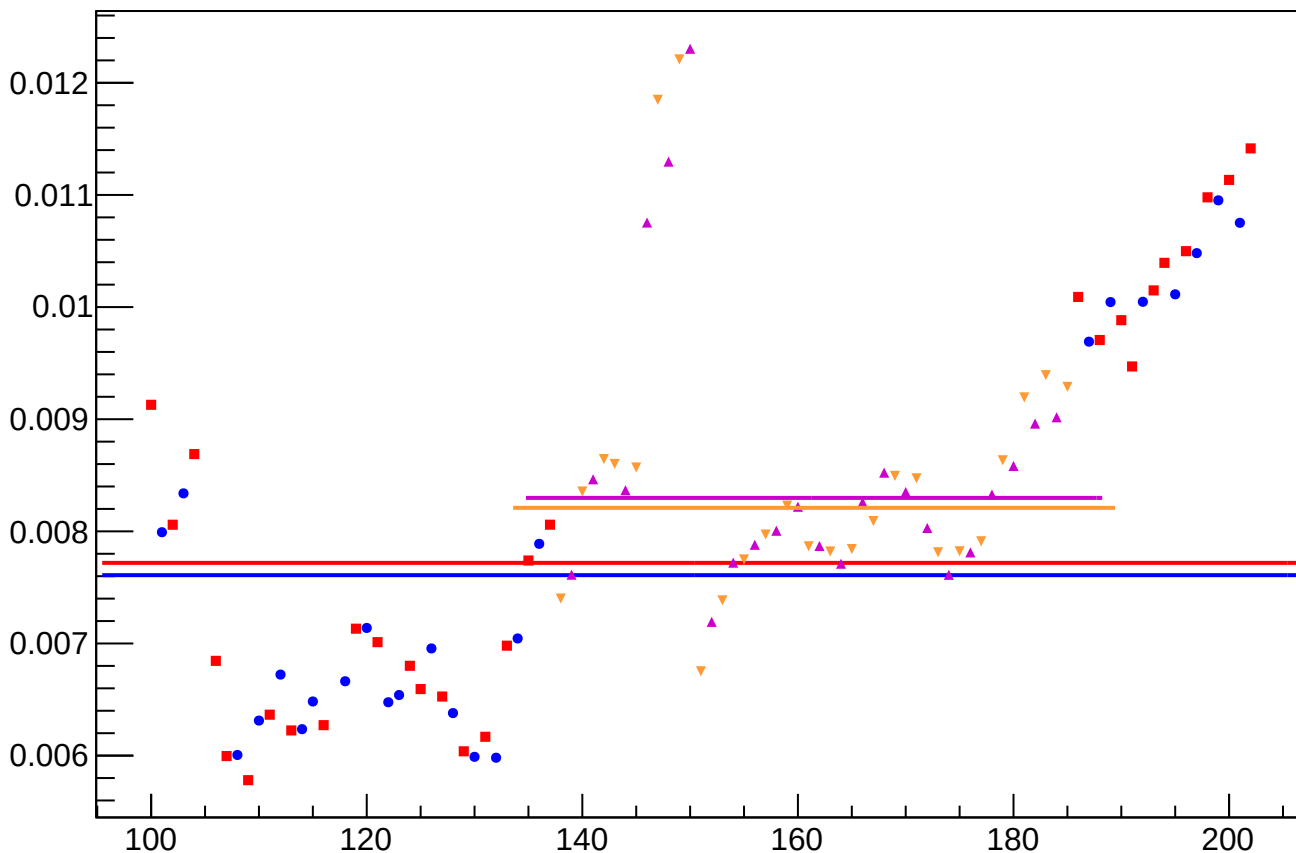
Right: 1.093+/-0.000 χ^2/NDF : 204760750534.9/52

In: 1.198+/-0.000 χ^2/NDF : 111487739791.2/46

Out: 1.200+/-0.000 χ^2/NDF : 118202822196.7/53

All: 1.199+/-0.000 χ^2/NDF : 229691422747.2

yield_bpm1i04X_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 1039400.6/23

Left Out: 0.008+/-0.000 χ^2/NDF : 478864.9/24

Right Out: 0.008+/-0.000 χ^2/NDF : 1386027.7/28

Left In: 0.008+/-0.000 χ^2/NDF : 462022.1/22

Left: 0.008+/-0.000 χ^2/NDF : 942877.3/47

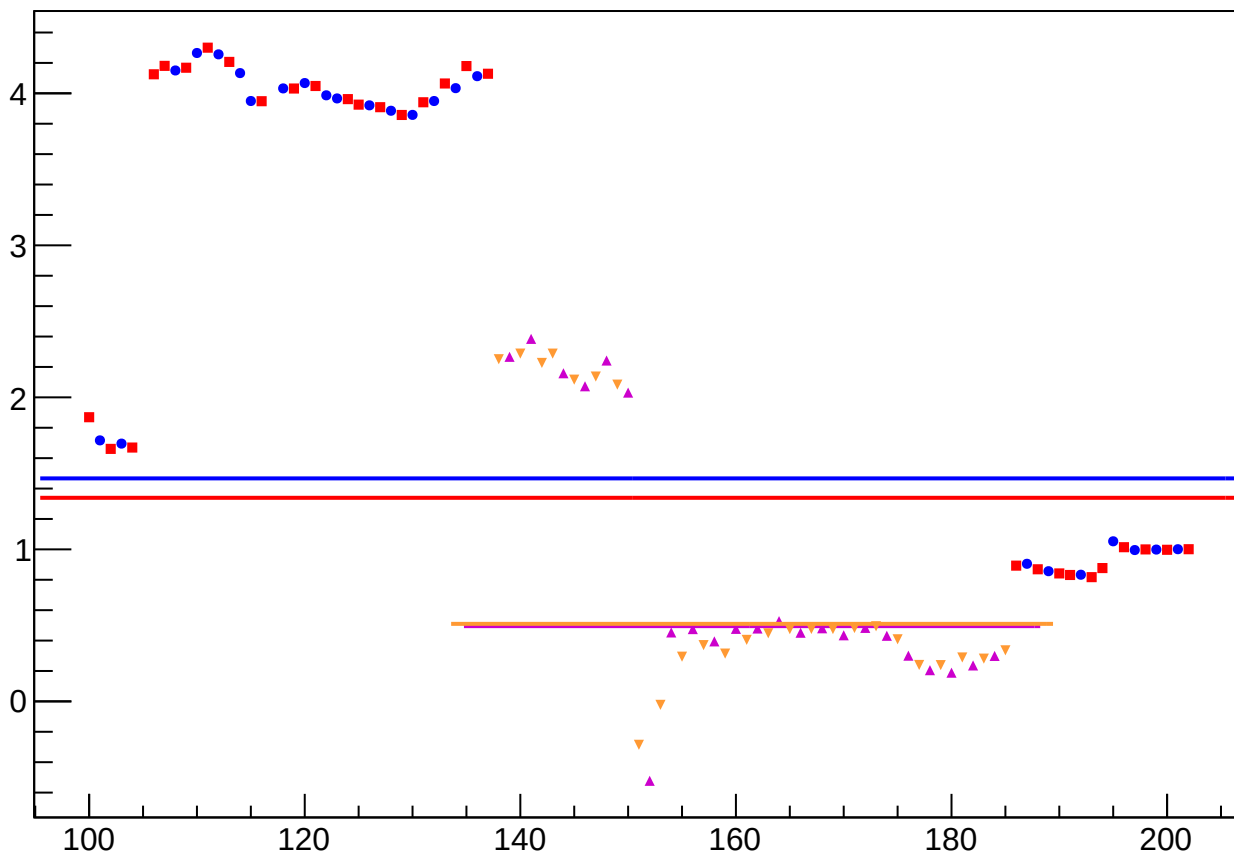
Right: 0.008+/-0.000 χ^2/NDF : 2427827.7/52

In: 0.008+/-0.000 χ^2/NDF : 1602039.2/46

Out: 0.008+/-0.000 χ^2/NDF : 1921715.0/53

All: 0.008+/-0.000 χ^2/NDF : 3523792.3/100

yield_bpm1i04Y_mean vs Slug, Sign Corrected



Right In: 1.467+/-0.000 χ^2/NDF : 1404841889482.5/23

Left Out: 0.510+/-0.000 χ^2/NDF : 274818814912.4/24

Right Out: 1.339+/-0.000 χ^2/NDF : 1654212851424.9/28

Left In: 0.495+/-0.000 χ^2/NDF : 268863202792.4/22

Left: 0.503+/-0.000 χ^2/NDF : 543767842878.3/47

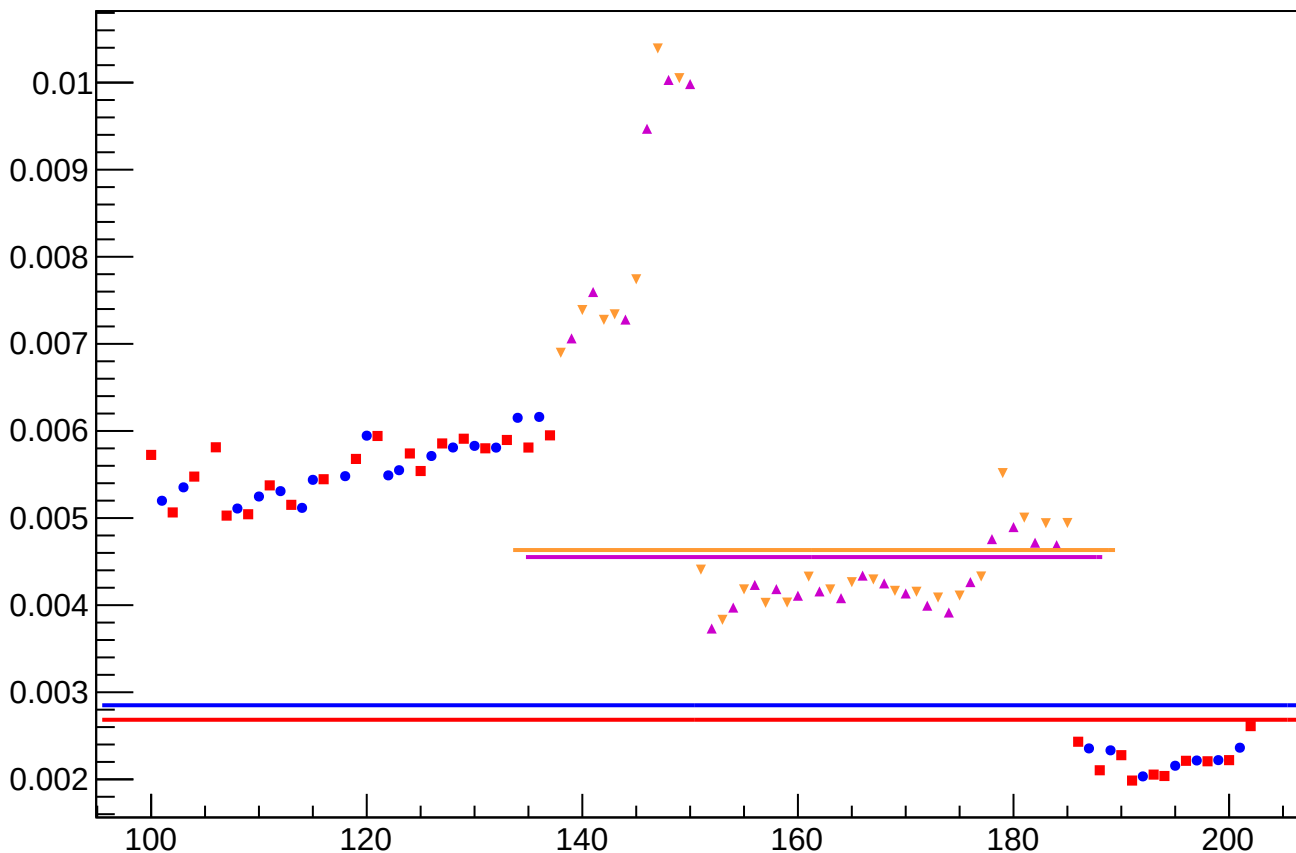
Right: 1.394+/-0.000 χ^2/NDF : 3069445792799.2/52

In: 1.073+/-0.000 χ^2/NDF : 2099610895669.2/46

Out: 1.055+/-0.000 χ^2/NDF : 2280076626200.9/53

All: 1.063+/-0.000 χ^2/NDF : 4380026867822.0/102

yield_bpm1i04Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 3999129.5/23

Left Out: 0.005+/-0.000 χ^2/NDF :2114007.7/24

Right Out: 0.003+/-0.000 χ^2/NDF : 4410933.6/28

Left In: 0.005+/-0.000 χ^2/NDF :2237666.9/22

Left: 0.005+/-0.000 χ^2/NDF : 4356682.7/47

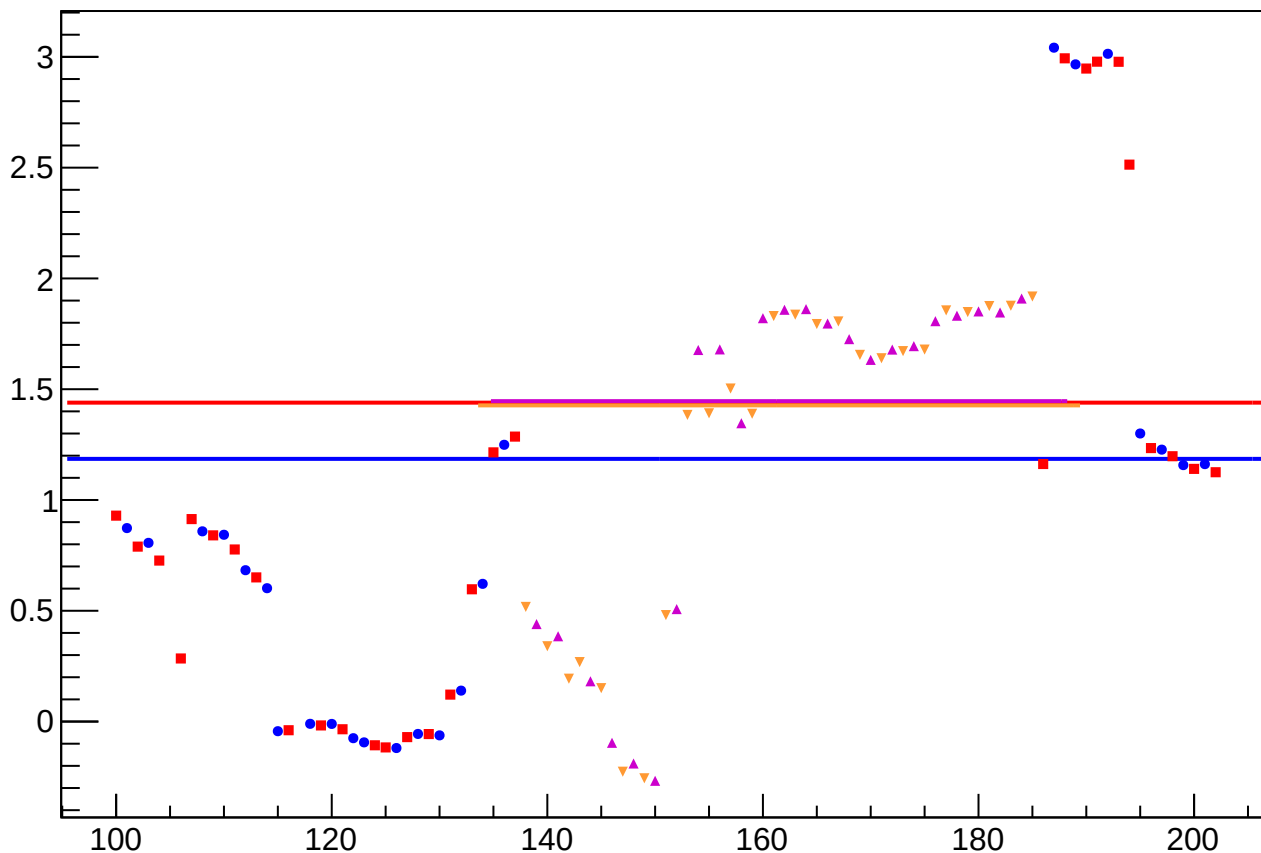
Right: 0.003+/-0.000 χ^2/NDF : 8445401.1/52

In: 0.004+/-0.000 χ^2/NDF :8847684.9/46

Out: 0.003+/-0.000 χ^2/NDF :10402868.8/53

All: 0.003+/-0.000 χ^2/NDF : 19322946.0/100

yield_bpm1i06X_mean vs Slug, Sign Corrected



Right In: 1.186+/-0.000

χ^2/NDF : 72605173055.6/23

Left Out: 1.427+/-0.000

χ^2/NDF : 49990787038.3/24

Right Out: 1.439+/-0.000

χ^2/NDF : 98892735836.4/28

Left In: 1.446+/-0.000

χ^2/NDF : 53752493130.3/22

Left: 1.436+/-0.000

χ^2/NDF : 103768857952.7/47

Right: 1.326+/-0.000

χ^2/NDF : 173857044310.3/52

In: 1.361+/-0.000

χ^2/NDF : 129391630714.5/46

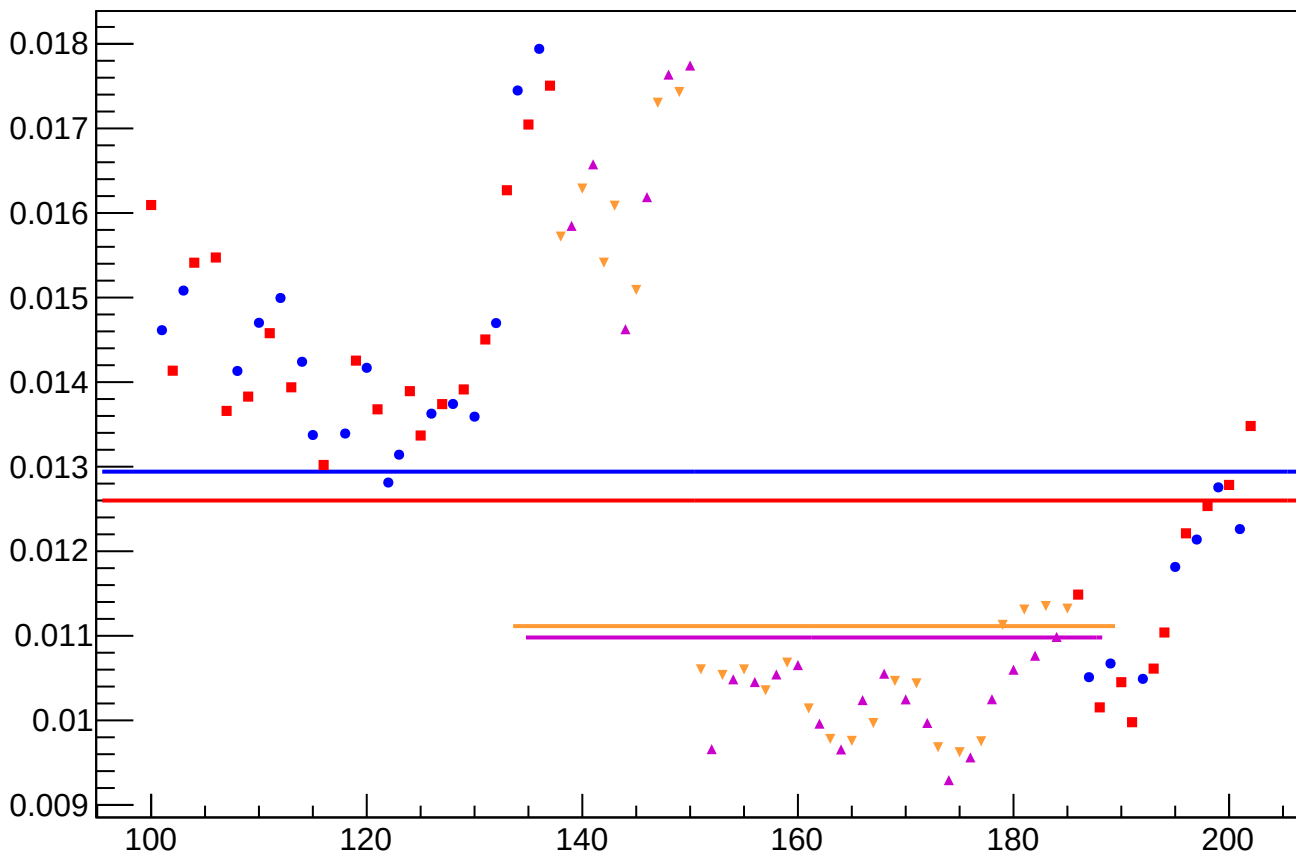
Out: 1.432+/-0.000

χ^2/NDF : 148891492547.1/53

All: 1.398+/-0.000

χ^2/NDF : 278808523531.6

yield_bpm1i06X_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 434684.7/23

Left Out: 0.011+/-0.000 χ^2/NDF :1227493.2/24

Right Out: 0.013+/-0.000 χ^2/NDF : 553075.6/28

Left In: 0.011+/-0.000 χ^2/NDF :1264827.0/22

Left: 0.011+/-0.000 χ^2/NDF : 2494847.1/47

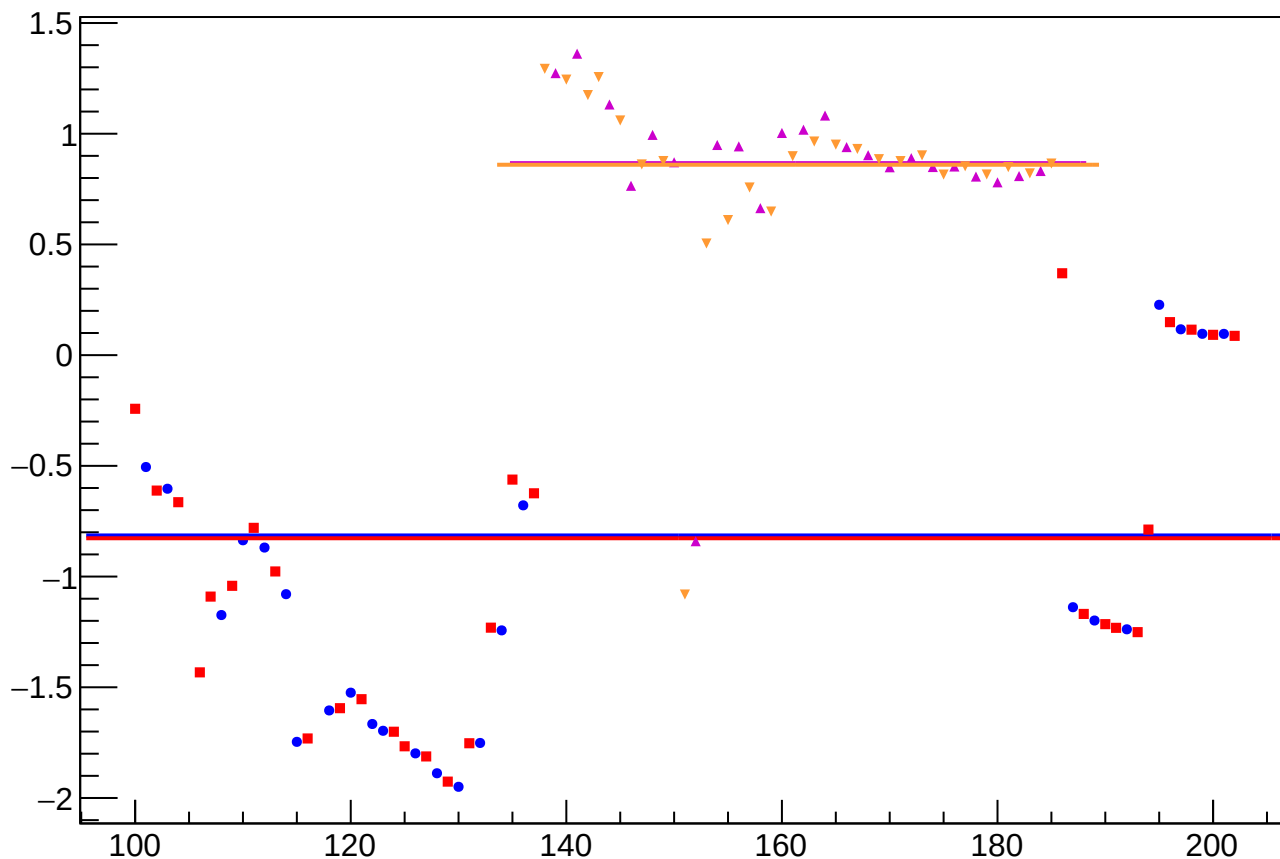
Right: 0.013+/-0.000 χ^2/NDF : 996291.7/52

In: 0.012+/-0.000 χ^2/NDF :2043281.5/46

Out: 0.012+/-0.000 χ^2/NDF :2009862.4/53

All: 0.012+/-0.000 χ^2/NDF : 4053471.6/100

yield_bpm1i06Y_mean vs Slug, Sign Corrected



Right In: -0.814 ± 0.000 $\chi^2/\text{NDF}: 138047676138.0/23$

Left Out: 0.860 ± 0.000 $\chi^2/\text{NDF}: 126335891175.4/24$

Right Out: -0.827 ± 0.000 $\chi^2/\text{NDF}: 132072113054.4/28$

Left In: 0.867 ± 0.000 $\chi^2/\text{NDF}: 147039402944.6/22$

Left: 0.863 ± 0.000 $\chi^2/\text{NDF}: 273407894621.9/47$

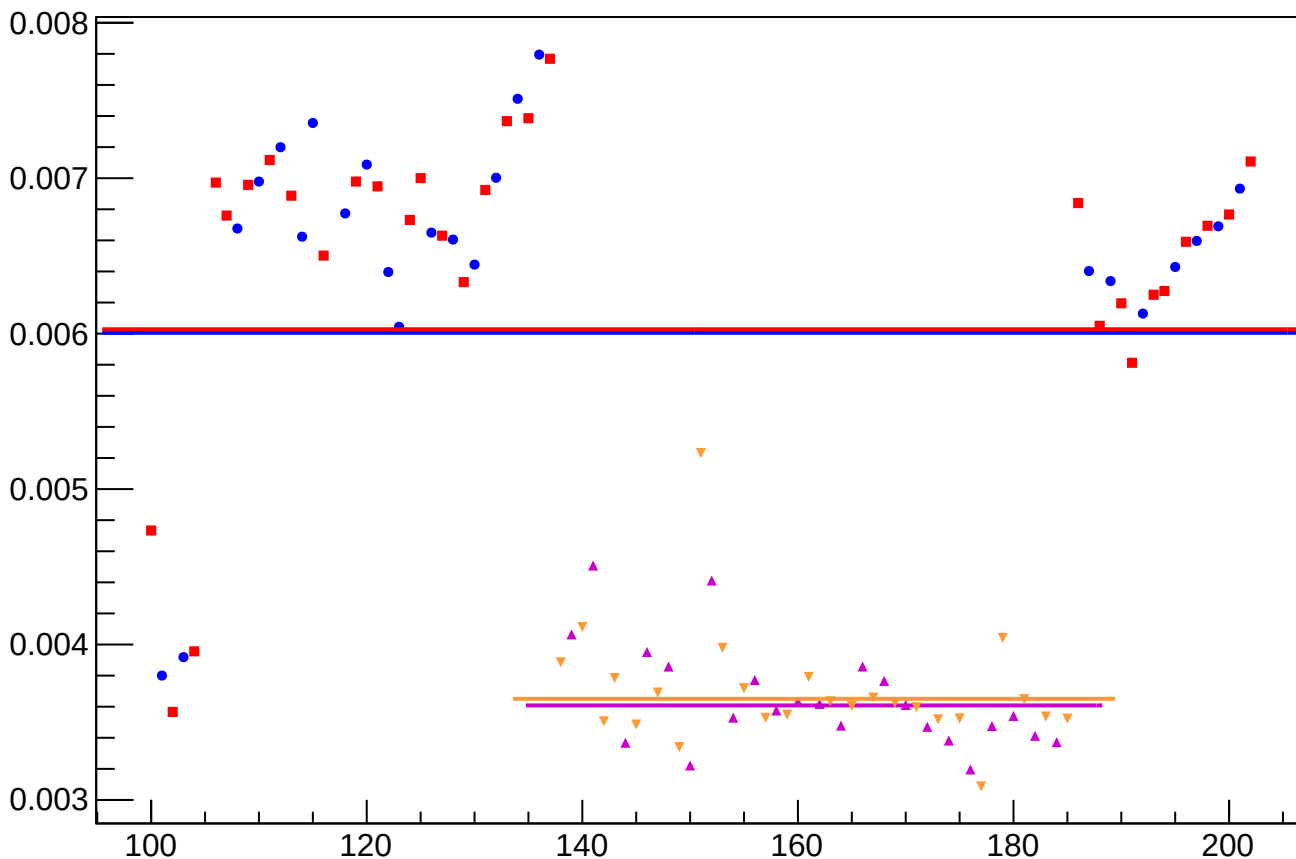
Right: -0.821 ± 0.000 $\chi^2/\text{NDF}: 270144866229.4/52$

In: 0.543 ± 0.000 $\chi^2/\text{NDF}: 942179428935.8/46$

Out: 0.502 ± 0.000 $\chi^2/\text{NDF}: 1014195946003.2/53$

All: 0.522 ± 0.000 $\chi^2/\text{NDF}: 1957670910326.$

yield_bpm1i06Y_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 934199.4/23

Left Out: 0.004+/-0.000 χ^2/NDF : 237262.6/24

Right Out: 0.006+/-0.000 χ^2/NDF : 1043476.6/28

Left In: 0.004+/-0.000 χ^2/NDF : 227861.4/22

Left: 0.004+/-0.000 χ^2/NDF : 467360.2/47

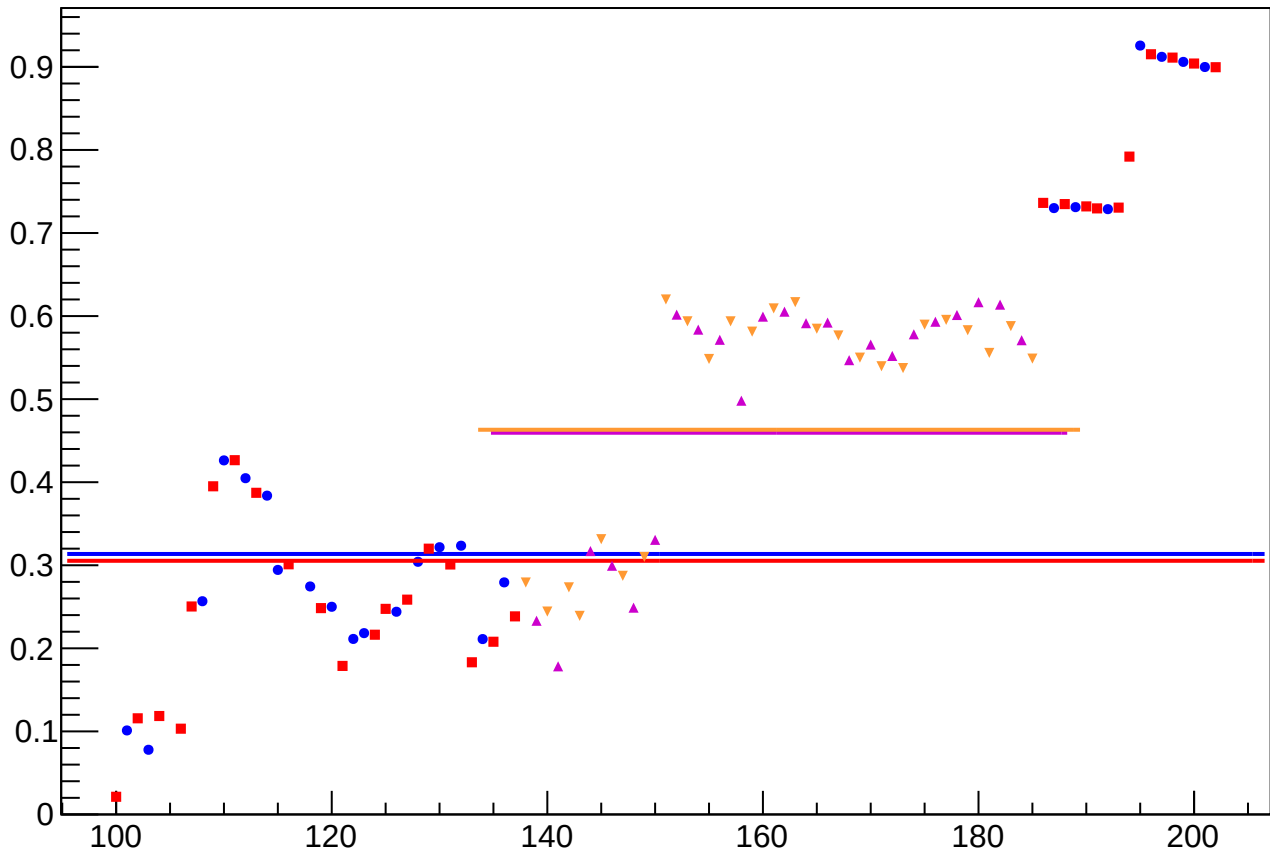
Right: 0.006+/-0.000 χ^2/NDF : 1977833.8/52

In: 0.004+/-0.000 χ^2/NDF : 3833922.8/46

Out: 0.004+/-0.000 χ^2/NDF : 4283196.9/53

All: 0.004+/-0.000 χ^2/NDF : 8128209.3/100

yield_bpm2i01X_mean vs Slug, Sign Corrected



Right In: 0.314+/-0.000

χ^2/NDF : 106923334087.5/23

Left: 0.461+/-0.000 χ^2/NDF : 207093695005.5/47

Right: 0.309+/-0.000 χ^2/NDF : 241892381316.0/52

Left Out: 0.463+/-0.000

χ^2/NDF : 102506270538.7/24

In: 0.402+/-0.000 χ^2/NDF : 246513433999.0/46

Right Out: 0.305+/-0.000

χ^2/NDF : 134872114241.9/28

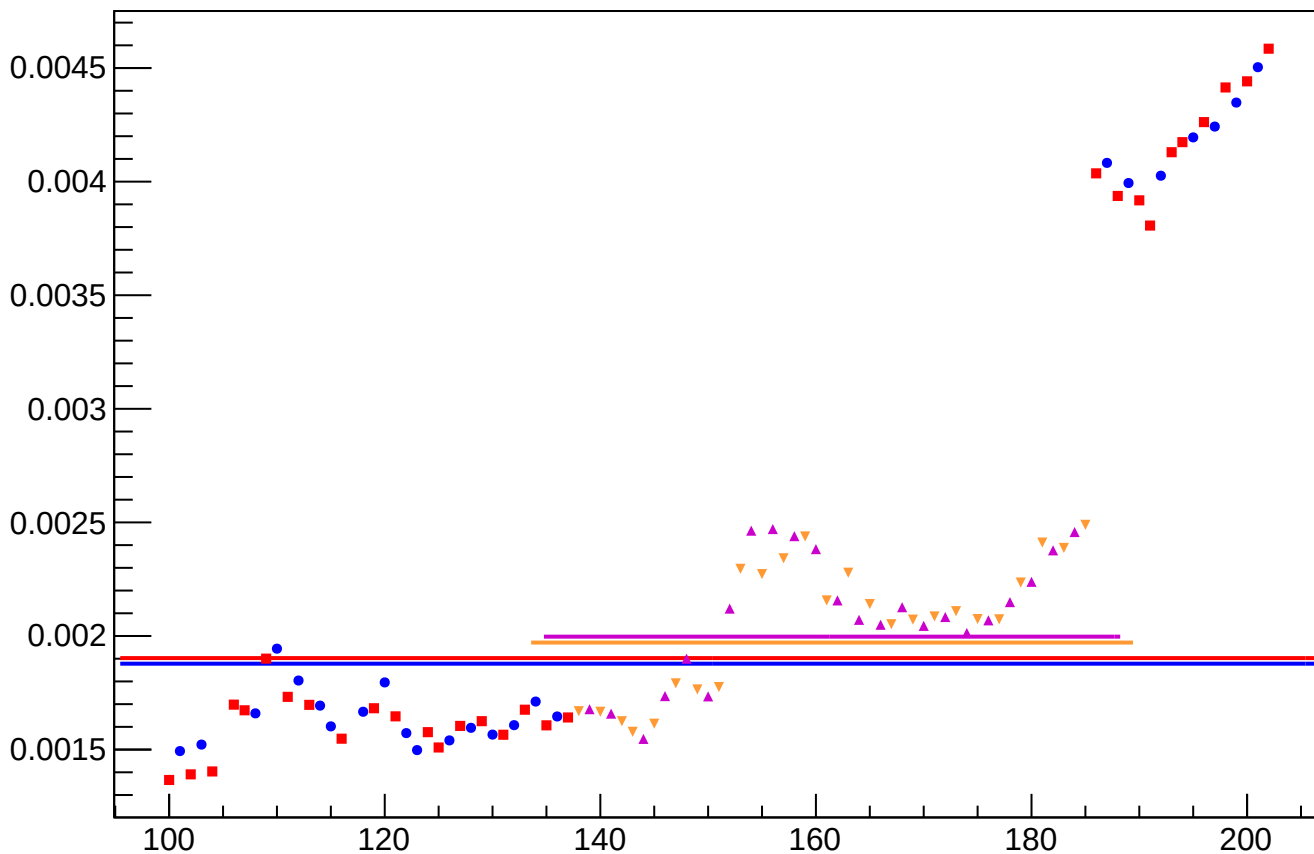
Out: 0.400+/-0.000 χ^2/NDF : 283263703152.0/53

Left In: 0.460+/-0.000

χ^2/NDF : 104559088628.4/22

All: 0.401+/-0.000 χ^2/NDF : 529801543573.2

yield_bpm2i01X_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 3269728.5/23

Left Out: 0.002+/-0.000 χ^2/NDF : 730203.8/24

Right Out: 0.002+/-0.000 χ^2/NDF : 4408302.8/28

Left In: 0.002+/-0.000 χ^2/NDF : 666404.2/22

Left: 0.002+/-0.000 χ^2/NDF : 1399578.1/47

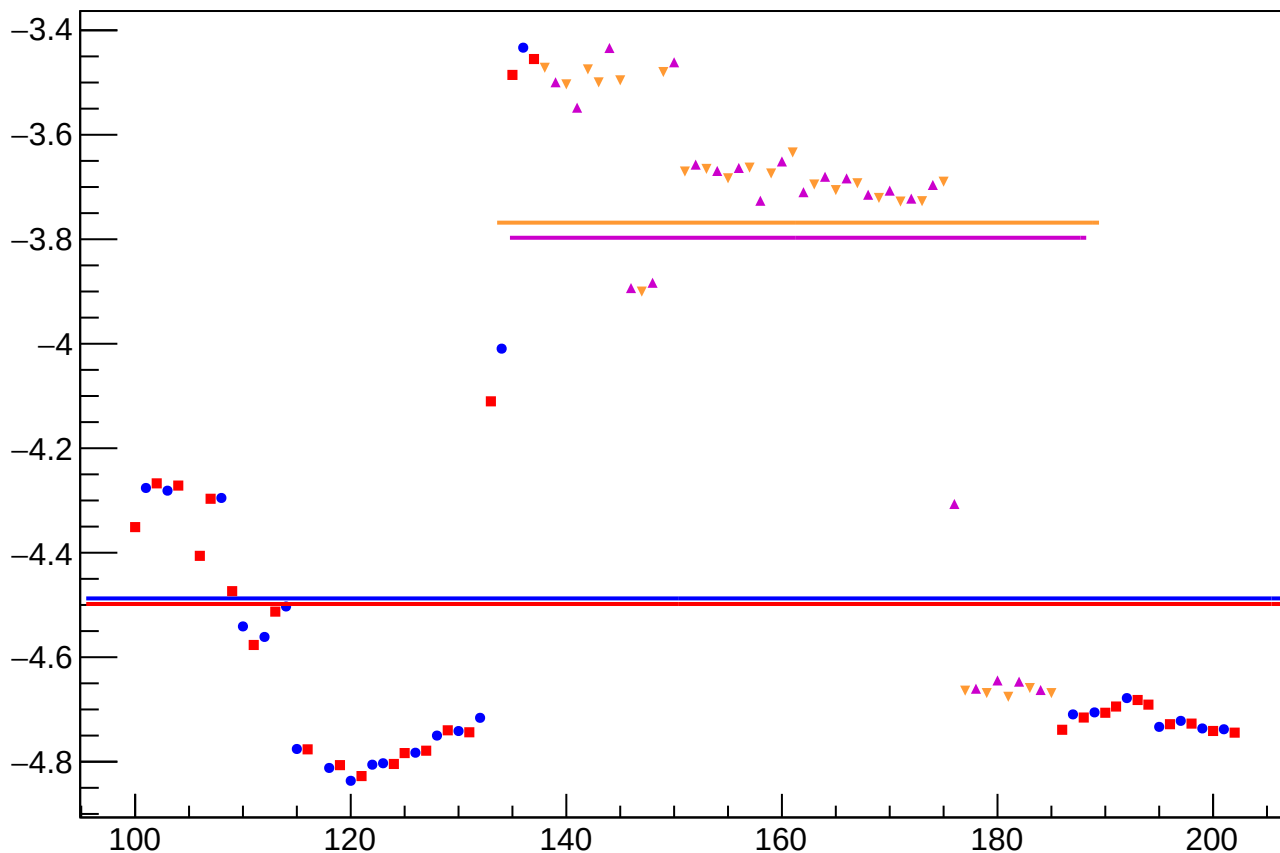
Right: 0.002+/-0.000 χ^2/NDF : 7679771.8/52

In: 0.002+/-0.000 χ^2/NDF : 3982686.2/46

Out: 0.002+/-0.000 χ^2/NDF : 5155746.6/53

All: 0.002+/-0.000 χ^2/NDF : 9138778.7/100

yield_bpm2i01Y_mean vs Slug, Sign Corrected



Right In: -4.487+/-0.000 χ^2/NDF : 421473333365.1/23

Left Out: -3.768+/-0.000 χ^2/NDF : 516780173940.8/24

Right Out: -4.498+/-0.000 χ^2/NDF : 362295866489.5/28

Left In: -3.797+/-0.000 χ^2/NDF : 444886272608.9/22

Left: -3.782+/-0.000 χ^2/NDF : 963205684454.6/47

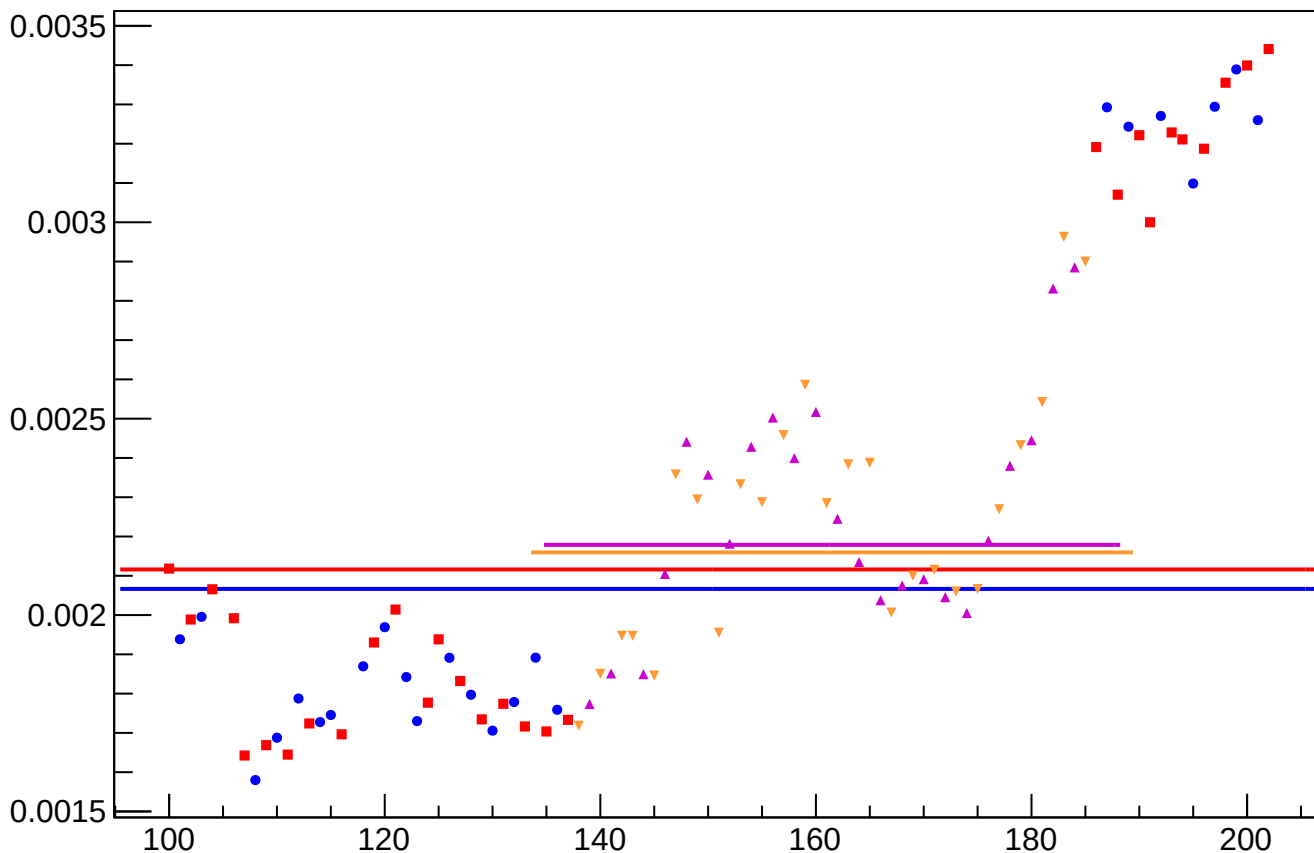
Right: -4.493+/-0.000 χ^2/NDF : 783916420026.3/52

In: -4.078+/-0.000 χ^2/NDF : 1554183240250.6/46

Out: -4.073+/-0.000 χ^2/NDF : 1726227854900.9/53

All: -4.075+/-0.000 χ^2/NDF : 3280496140632

yield_bpm2i01Y_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 1575354.9/23

Left Out: 0.002+/-0.000 χ^2/NDF :547831.5/24

Right Out: 0.002+/-0.000 χ^2/NDF : 2042844.1/28

Left In: 0.002+/-0.000 χ^2/NDF :463279.7/22

Left: 0.002+/-0.000 χ^2/NDF : 1012449.5/47

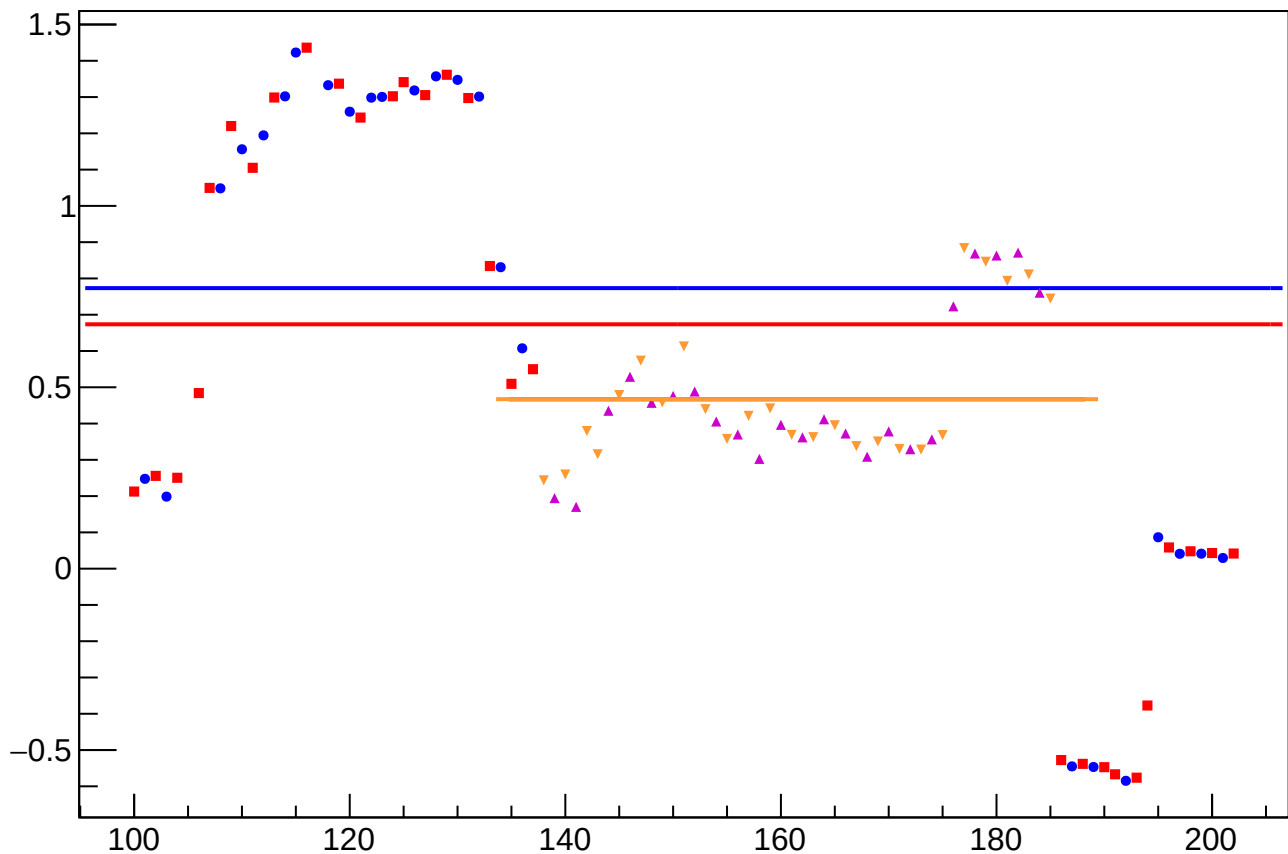
Right: 0.002+/-0.000 χ^2/NDF : 3624510.1/52

In: 0.002+/-0.000 χ^2/NDF :2074936.3/46

Out: 0.002+/-0.000 χ^2/NDF :2596697.8/53

All: 0.002+/-0.000 χ^2/NDF : 4672071.8/100

yield_bpm2i02X_mean vs Slug, Sign Corrected



Right In: 0.773 $\pm$ 0.000 χ^2 /NDF: 67667854106.4/23

Left Out: 0.467 $\pm$ 0.000 χ^2 /NDF: 7359344143.3/24

Right Out: 0.674 $\pm$ 0.000 χ^2 /NDF: 91938427897.6/28

Left In: 0.467 $\pm$ 0.000 χ^2 /NDF: 8036741308.0/22

Left: 0.467 $\pm$ 0.000 χ^2 /NDF: 15396100488.4/47

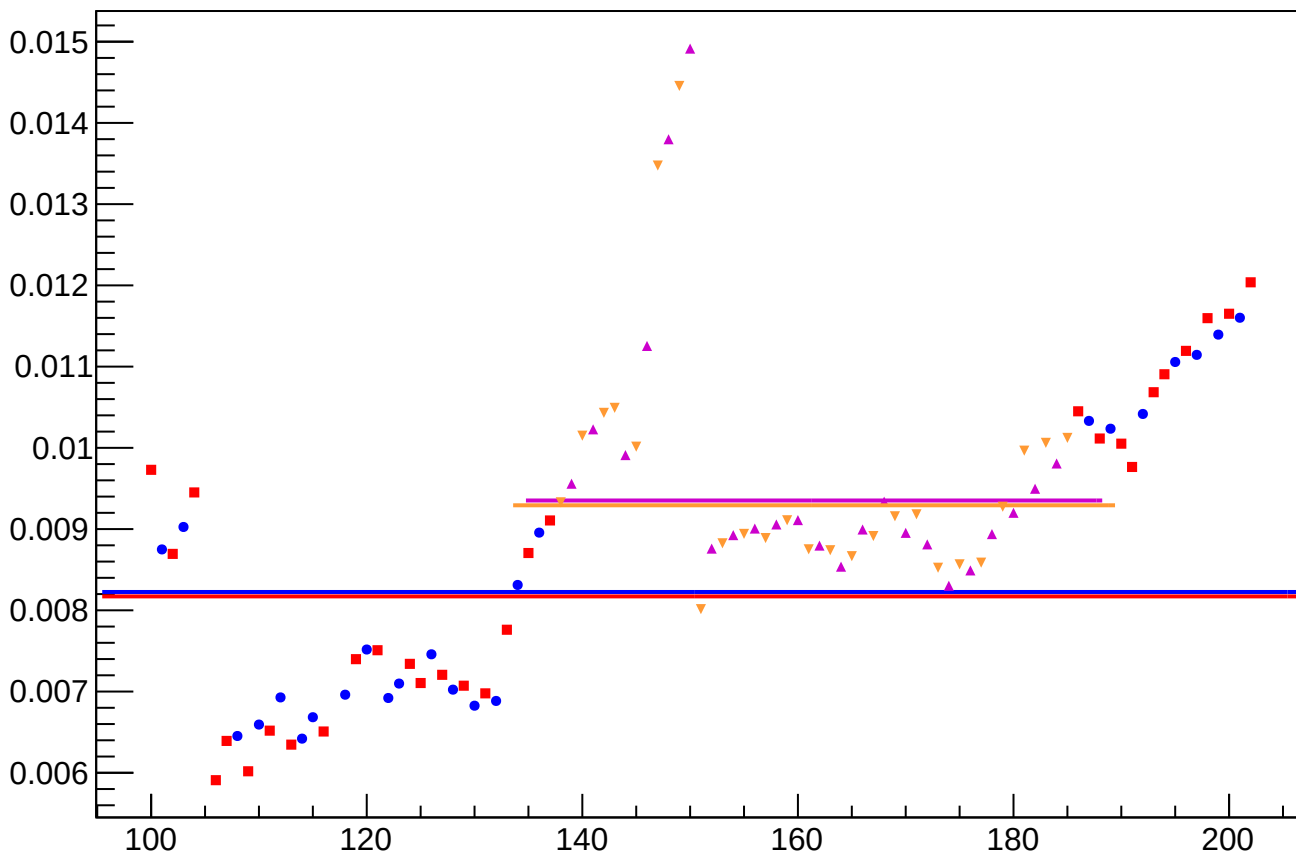
Right: 0.719 $\pm$ 0.000 χ^2 /NDF: 160476311501.3/52

In: 0.606 $\pm$ 0.000 χ^2 /NDF: 83980334202.5/46

Out: 0.566 $\pm$ 0.000 χ^2 /NDF: 103547523766.8/53

All: 0.585 $\pm$ 0.000 χ^2 /NDF: 187829660340.5

yield_bpm2i02X_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 968660.5/23

Left Out: 0.009+/-0.000 χ^2/NDF :528279.5/24

Right Out: 0.008+/-0.000 χ^2/NDF : 1400913.0/28

Left In: 0.009+/-0.000 χ^2/NDF :557555.2/22

Left: 0.009+/-0.000 χ^2/NDF : 1086539.3/47

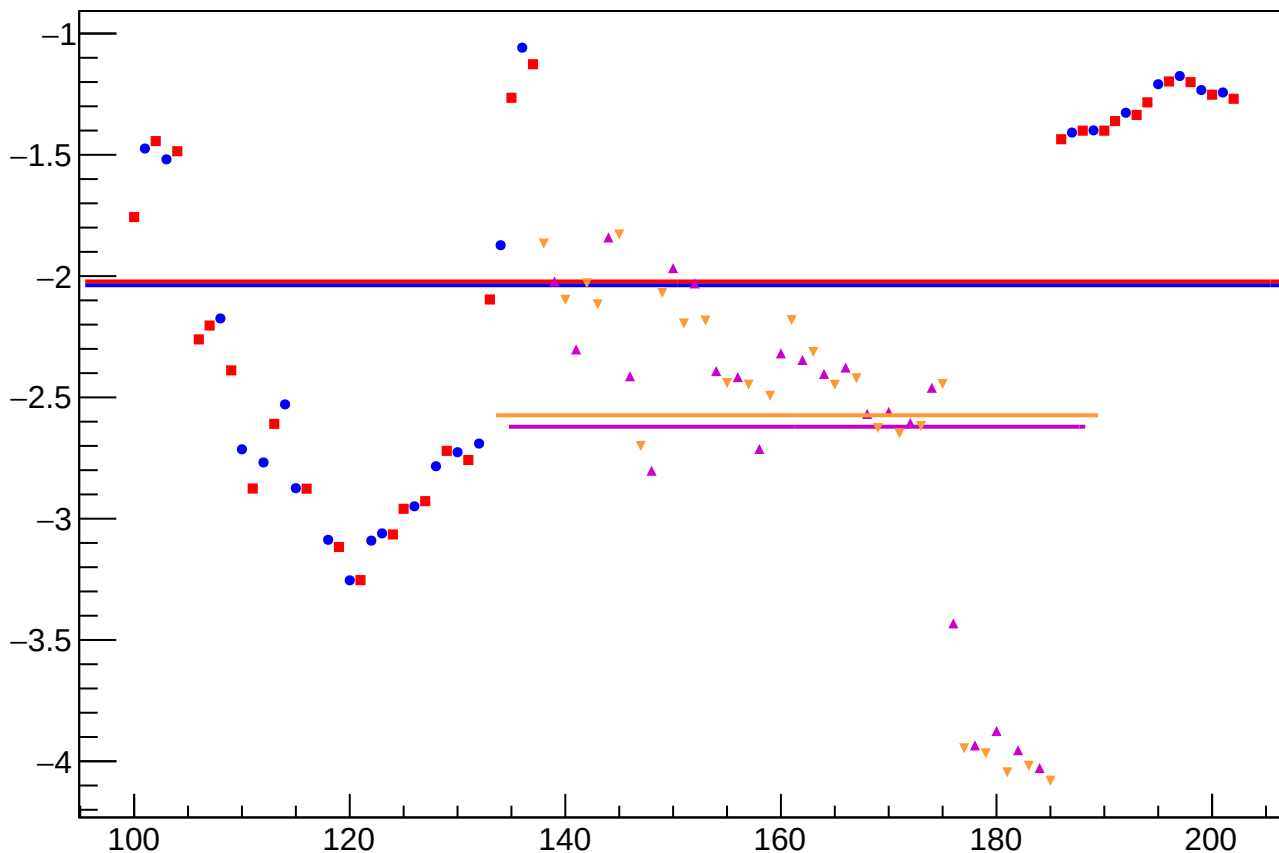
Right: 0.008+/-0.000 χ^2/NDF : 2370089.2/52

In: 0.009+/-0.000 χ^2/NDF :1749647.1/46

Out: 0.009+/-0.000 χ^2/NDF :2180148.5/53

All: 0.009+/-0.000 χ^2/NDF : 3932452.9/100

yield_bpm2i02Y_mean vs Slug, Sign Corrected



Right In: -2.038+/-0.000 χ^2/NDF : 112995330828.1/23

Left Out: -2.574+/-0.000 χ^2/NDF : 99176112704.9/24

Right Out: -2.022+/-0.000 χ^2/NDF : 114103812569.8/28

Left In: -2.621+/-0.000 χ^2/NDF : 80862402796.4/22

Left: -2.597+/-0.000 χ^2/NDF : 180296288698.4/47

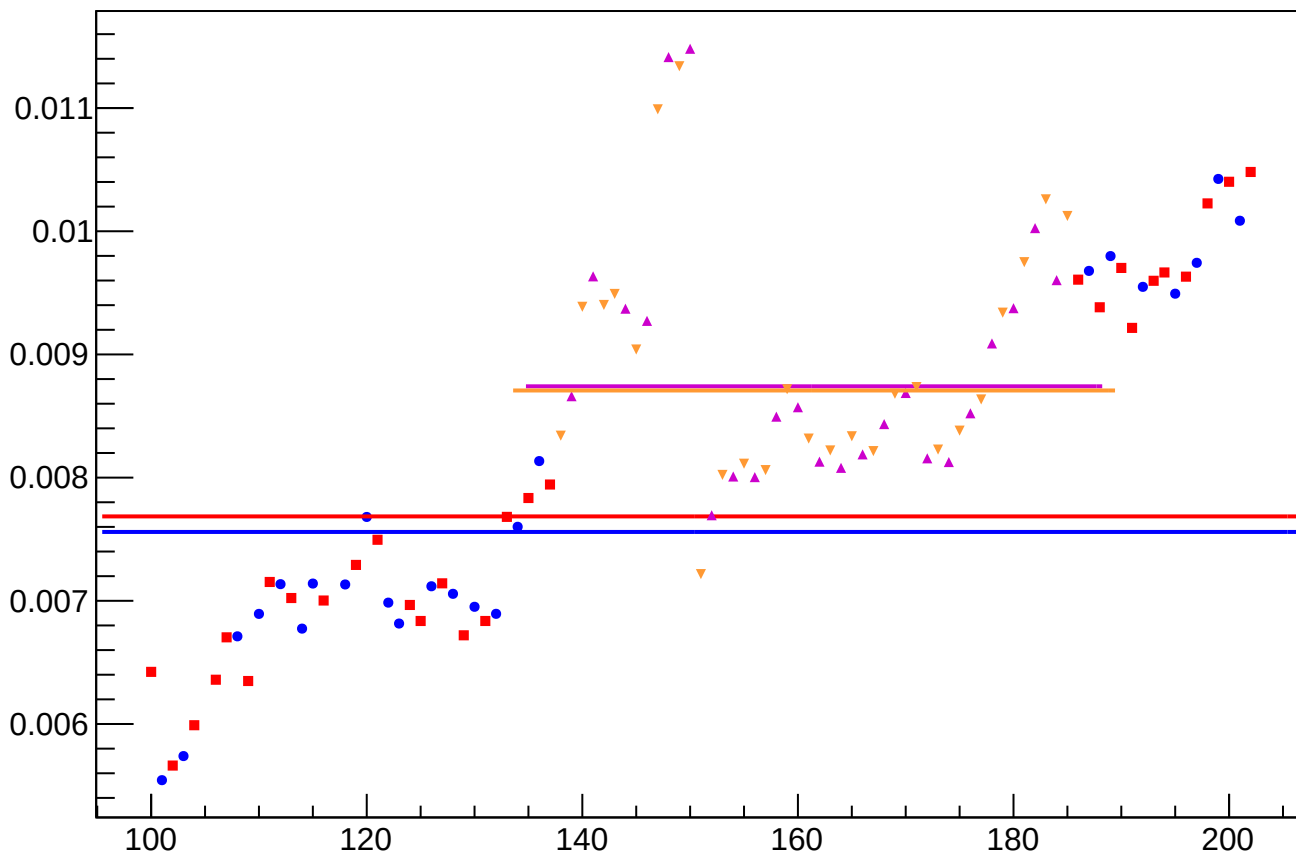
Right: -2.029+/-0.000 χ^2/NDF : 227123735400.9/52

In: -2.352+/-0.000 χ^2/NDF : 229063703017.2/46

Out: -2.310+/-0.000 χ^2/NDF : 248151376684.4/53

All: -2.330+/-0.000 χ^2/NDF : 477598520071.0

yield_bpm2i02Y_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 844931.9/23

Left Out: 0.009+/-0.000 χ^2/NDF :369376.5/24

Right Out: 0.008+/-0.000 χ^2/NDF : 989998.6/28

Left In: 0.009+/-0.000 χ^2/NDF :353750.0/22

Left: 0.009+/-0.000 χ^2/NDF : 723390.7/47

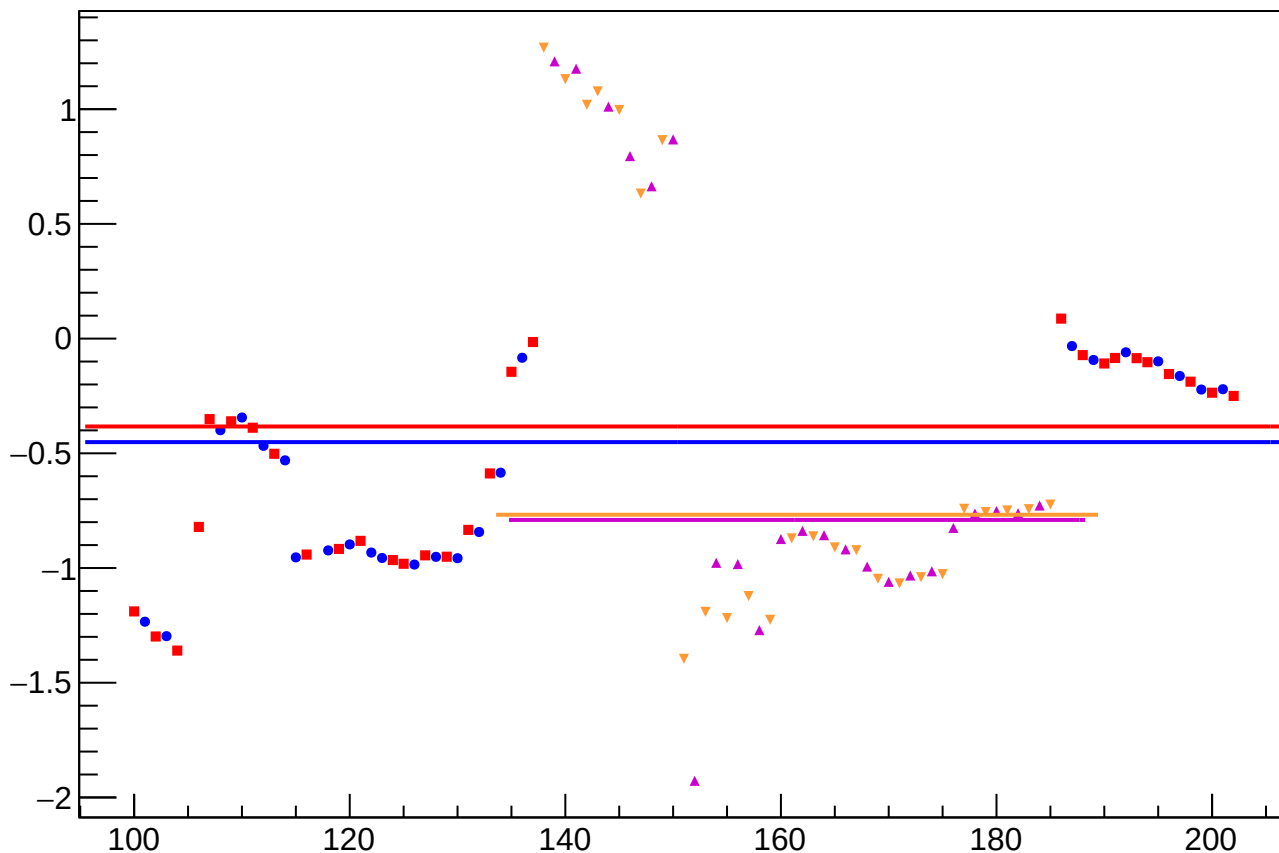
Right: 0.008+/-0.000 χ^2/NDF : 1838193.3/52

In: 0.008+/-0.000 χ^2/NDF :1487877.1/46

Out: 0.008+/-0.000 χ^2/NDF :1598876.7/53

All: 0.008+/-0.000 χ^2/NDF : 3086979.1/100

yield_bpm0i01X_mean vs Slug, Sign Corrected



Right In: -0.451 ± 0.000 $\chi^2/\text{NDF}: 21822665009.2/23$

Left Out: -0.768 ± 0.000 $\chi^2/\text{NDF}: 120774855982.9/24$

Right Out: -0.383 ± 0.000 $\chi^2/\text{NDF}: 24928878598.7/28$

Left In: -0.790 ± 0.000 $\chi^2/\text{NDF}: 123452478408.2/22$

Left: -0.779 ± 0.000 $\chi^2/\text{NDF}: 244297726249.8/47$

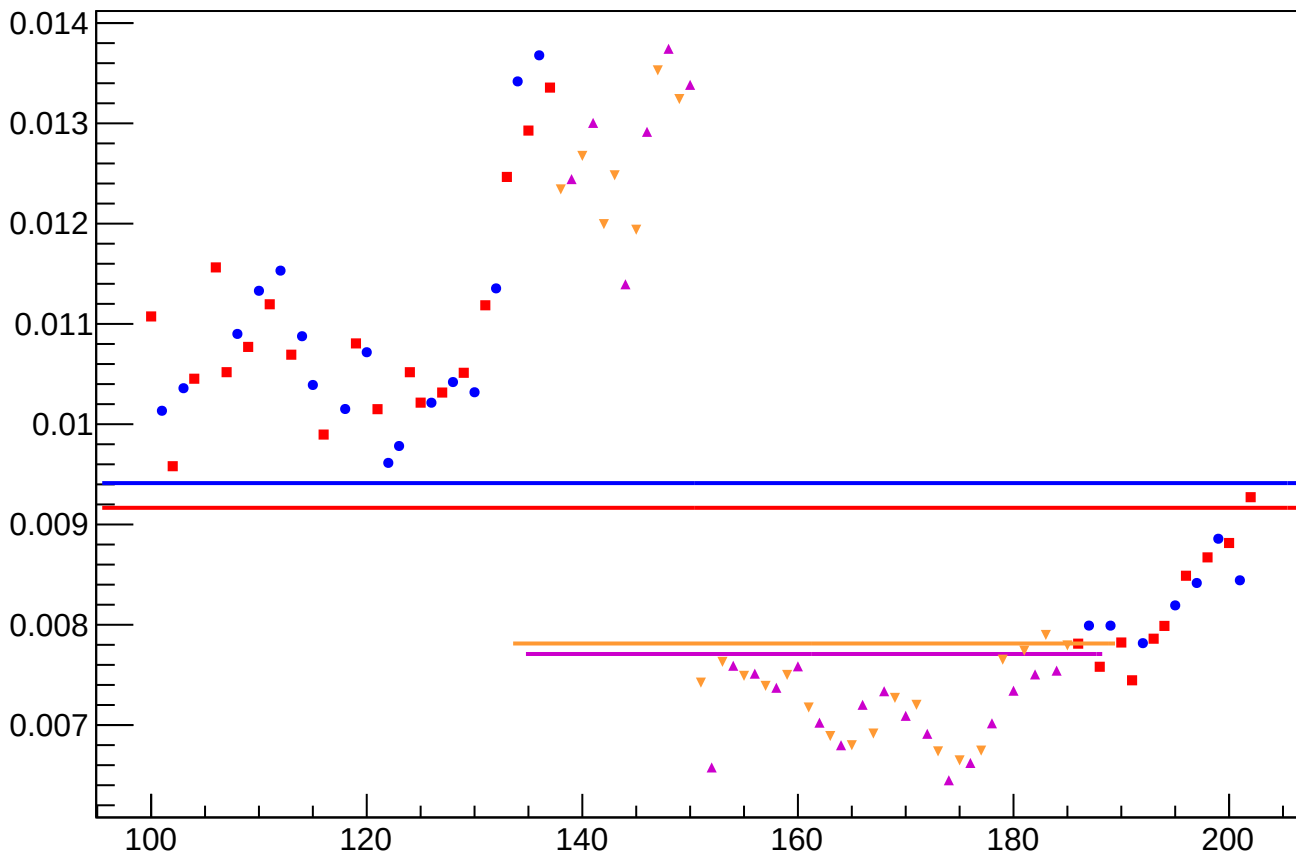
Right: -0.413 ± 0.000 $\chi^2/\text{NDF}: 47069307008.9/52$

In: -0.684 ± 0.000 $\chi^2/\text{NDF}: 155062858452.0/46$

Out: -0.632 ± 0.000 $\chi^2/\text{NDF}: 160413377406.8/53$

All: -0.657 ± 0.000 $\chi^2/\text{NDF}: 316041342757.5$

yield_bpm0i01X_rms vs Slug, Sign Corrected



Right In: 0.009+/-0.000 χ^2/NDF : 536057.1/23

Left Out: 0.008+/-0.000 χ^2/NDF :1705997.6/24

Right Out: 0.009+/-0.000 χ^2/NDF : 628000.2/28

Left In: 0.008+/-0.000 χ^2/NDF :1746653.6/22

Left: 0.008+/-0.000 χ^2/NDF : 3455681.9/47

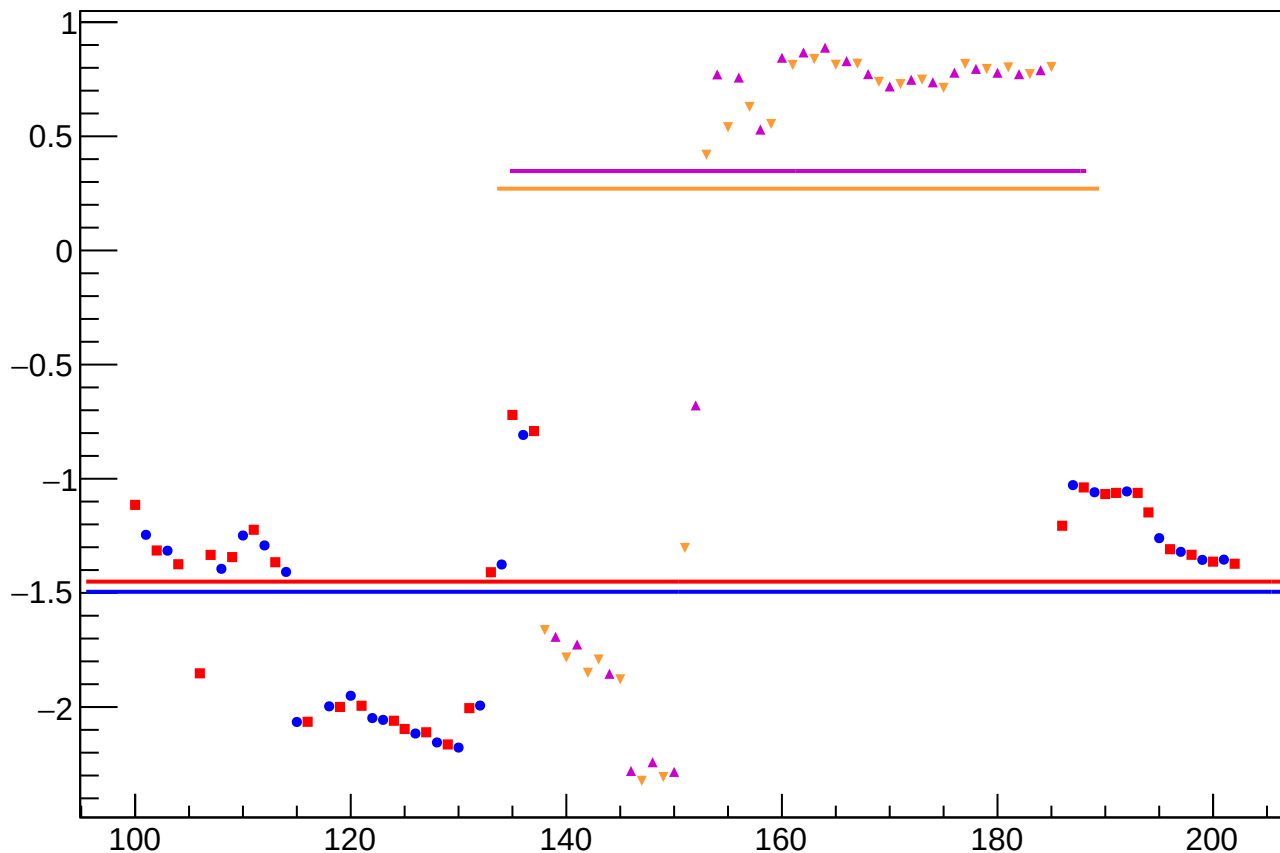
Right: 0.009+/-0.000 χ^2/NDF : 1172379.0/52

In: 0.008+/-0.000 χ^2/NDF :2776854.2/46

Out: 0.008+/-0.000 χ^2/NDF :2697896.1/53

All: 0.008+/-0.000 χ^2/NDF : 5475750.4/100

yield_bpm0i01Y_mean vs Slug, Sign Corrected



Right In: -1.495+/-0.000 χ^2/NDF : 173068811997.9/23

Left Out: 0.271+/-0.000 χ^2/NDF : 2583233987355.9/24

Right Out: -1.451+/-0.000 χ^2/NDF : 163794111152.0/28

Left In: 0.348+/-0.000 χ^2/NDF : 2274004426513.8/22

Left: 0.308+/-0.000 χ^2/NDF : 4864843200778.2/47

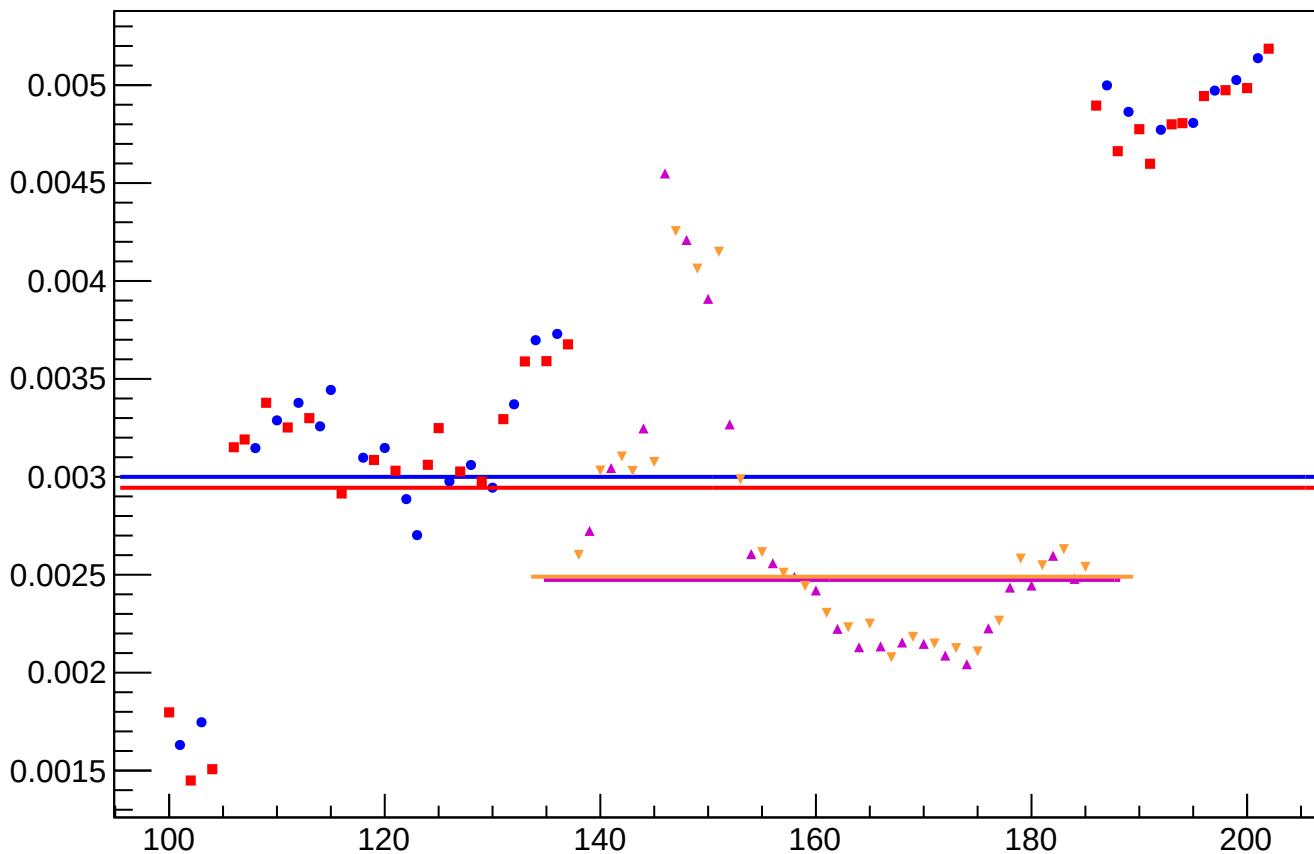
Right: -1.471+/-0.000 χ^2/NDF : 337976421580.7/52

In: -0.195+/-0.000 χ^2/NDF : 4932969251913.1/46

Out: -0.278+/-0.000 χ^2/NDF : 5225204676893.0/53

All: -0.239+/-0.000 χ^2/NDF : 1017083289002

yield_bpm0i01Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 2718912.0/23

Left Out: 0.002+/-0.000 χ^2/NDF :1070282.7/24

Right Out: 0.003+/-0.000 χ^2/NDF : 3962556.7/28

Left In: 0.002+/-0.000 χ^2/NDF :1135279.8/22

Left: 0.002+/-0.000 χ^2/NDF : 2206266.8/47

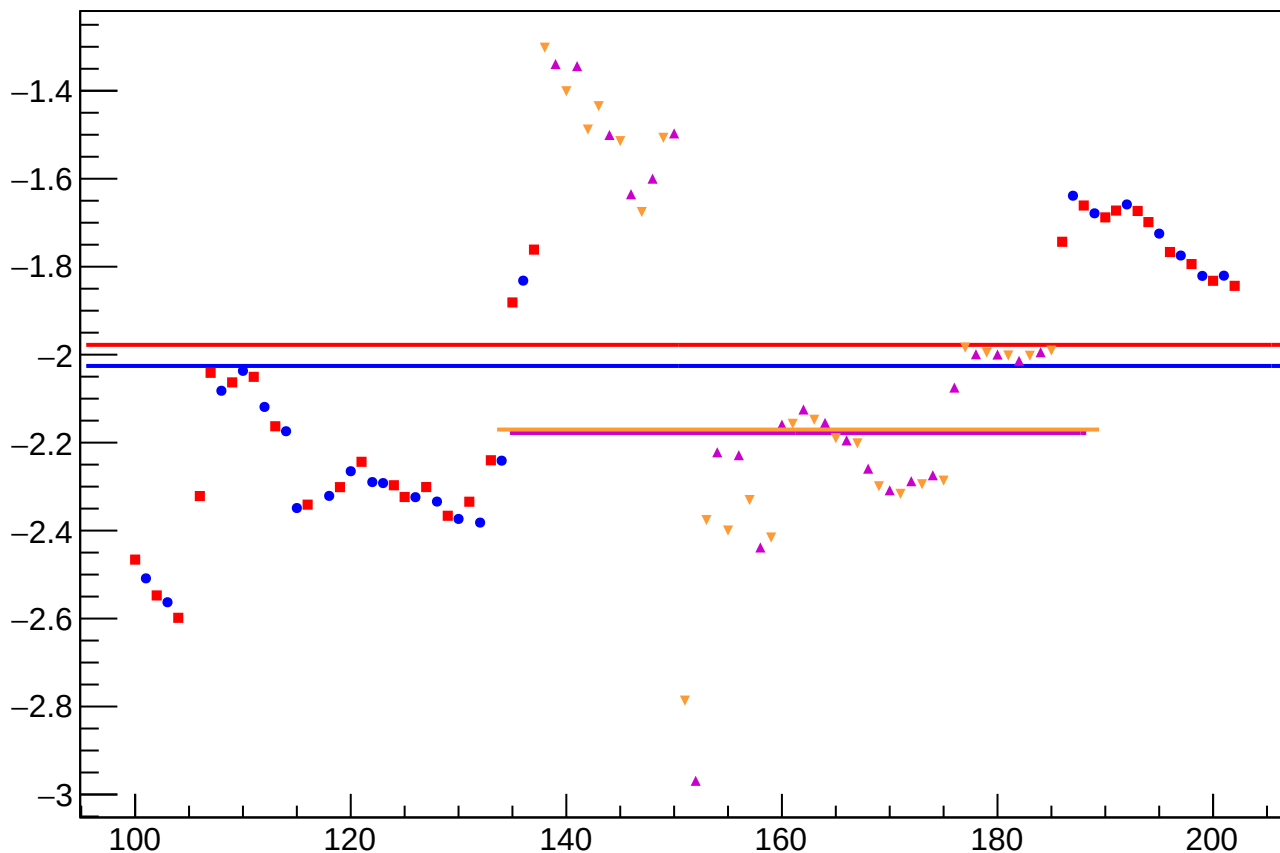
Right: 0.003+/-0.000 χ^2/NDF : 6684954.1/52

In: 0.003+/-0.000 χ^2/NDF :4259577.9/46

Out: 0.003+/-0.000 χ^2/NDF :5377614.5/53

All: 0.003+/-0.000 χ^2/NDF : 9637337.9/100

yield_bpm0i01aX_mean vs Slug, Sign Corrected



Right In: -2.026+/-0.000 χ^2/NDF : 29106004928.6/23

Left Out: -2.170+/-0.000 χ^2/NDF : 59967315241.9/24

Right Out: -1.978+/-0.000 χ^2/NDF : 34280971183.8/28

Left In: -2.178+/-0.000 χ^2/NDF : 73402051113.3/22

Left: -2.174+/-0.000 χ^2/NDF : 133392029481.5/47

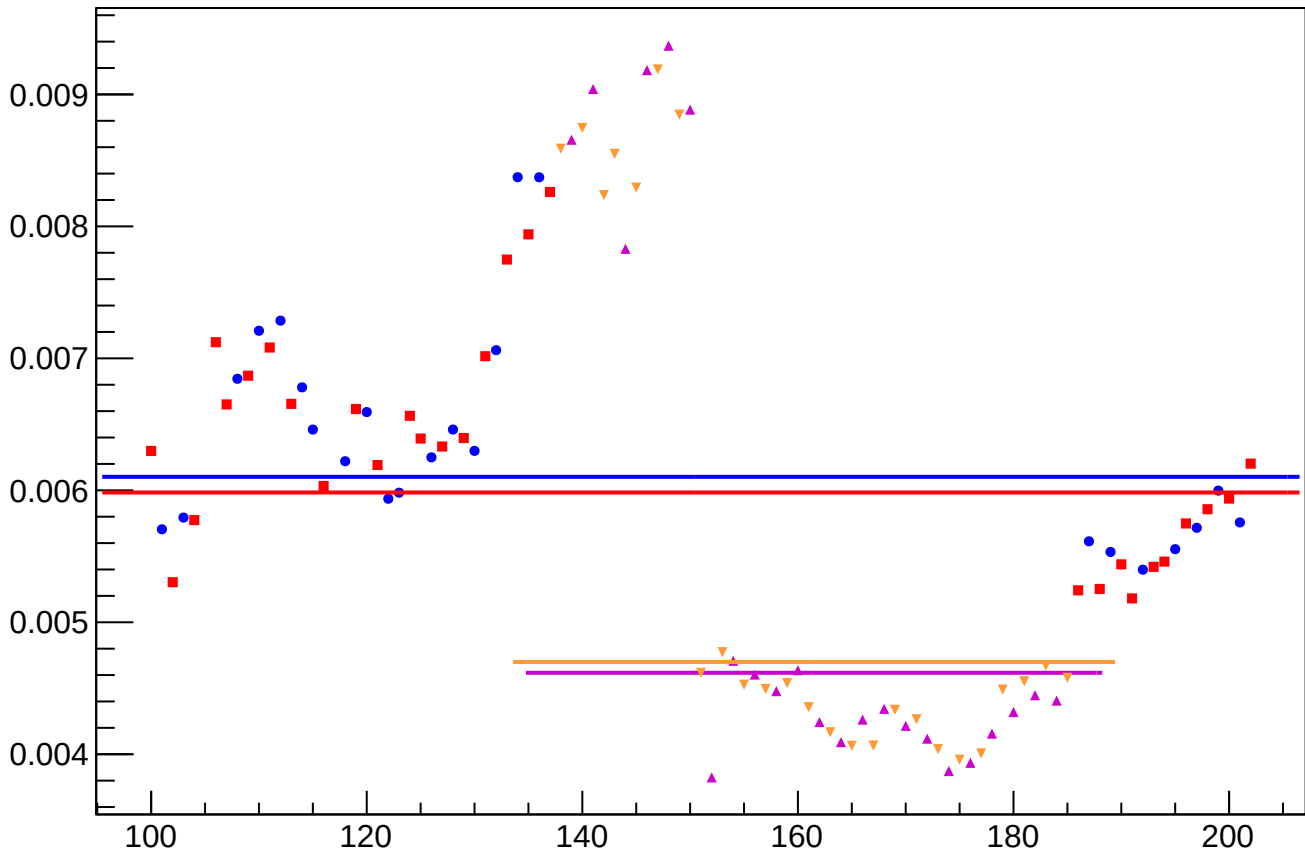
Right: -1.999+/-0.000 χ^2/NDF : 63760053998.8/52

In: -2.134+/-0.000 χ^2/NDF : 107387190588.0/46

Out: -2.108+/-0.000 χ^2/NDF : 103305753461.7/53

All: -2.121+/-0.000 χ^2/NDF : 211065854631.7

yield_bpm0i01aX_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 301642.2/23

Left Out: 0.005+/-0.000 χ^2/NDF :2319588.7/24

Right Out: 0.006+/-0.000 χ^2/NDF : 350975.2/28

Left In: 0.005+/-0.000 χ^2/NDF :2367440.9/22

Left: 0.005+/-0.000 χ^2/NDF : 4691984.4/47

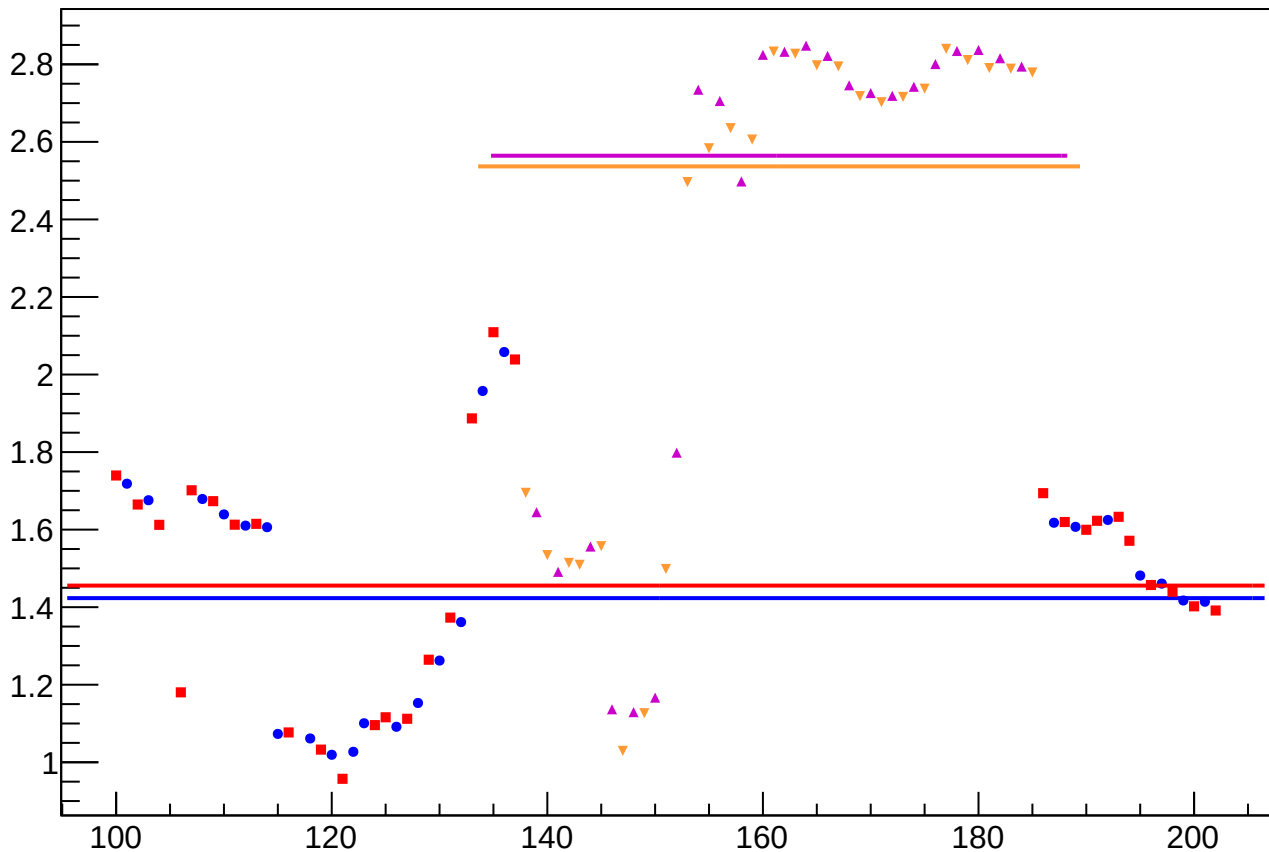
Right: 0.006+/-0.000 χ^2/NDF : 657184.4/52

In: 0.005+/-0.000 χ^2/NDF :3595305.4/46

Out: 0.005+/-0.000 χ^2/NDF :3476821.9/53

All: 0.005+/-0.000 χ^2/NDF : 7077580.3/100

yield_bpm0i01aY_mean vs Slug, Sign Corrected



Right In: 1.423+/-0.000 χ^2/NDF : 174090715835.3/23

Left Out: 2.537+/-0.000 χ^2/NDF : 269554948115.3/24

Right Out: 1.456+/-0.000 χ^2/NDF : 176801910183.6/28

Left In: 2.564+/-0.000 χ^2/NDF : 260287937727.8/22

Left: 2.550+/-0.000 χ^2/NDF : 530319507083.6/47

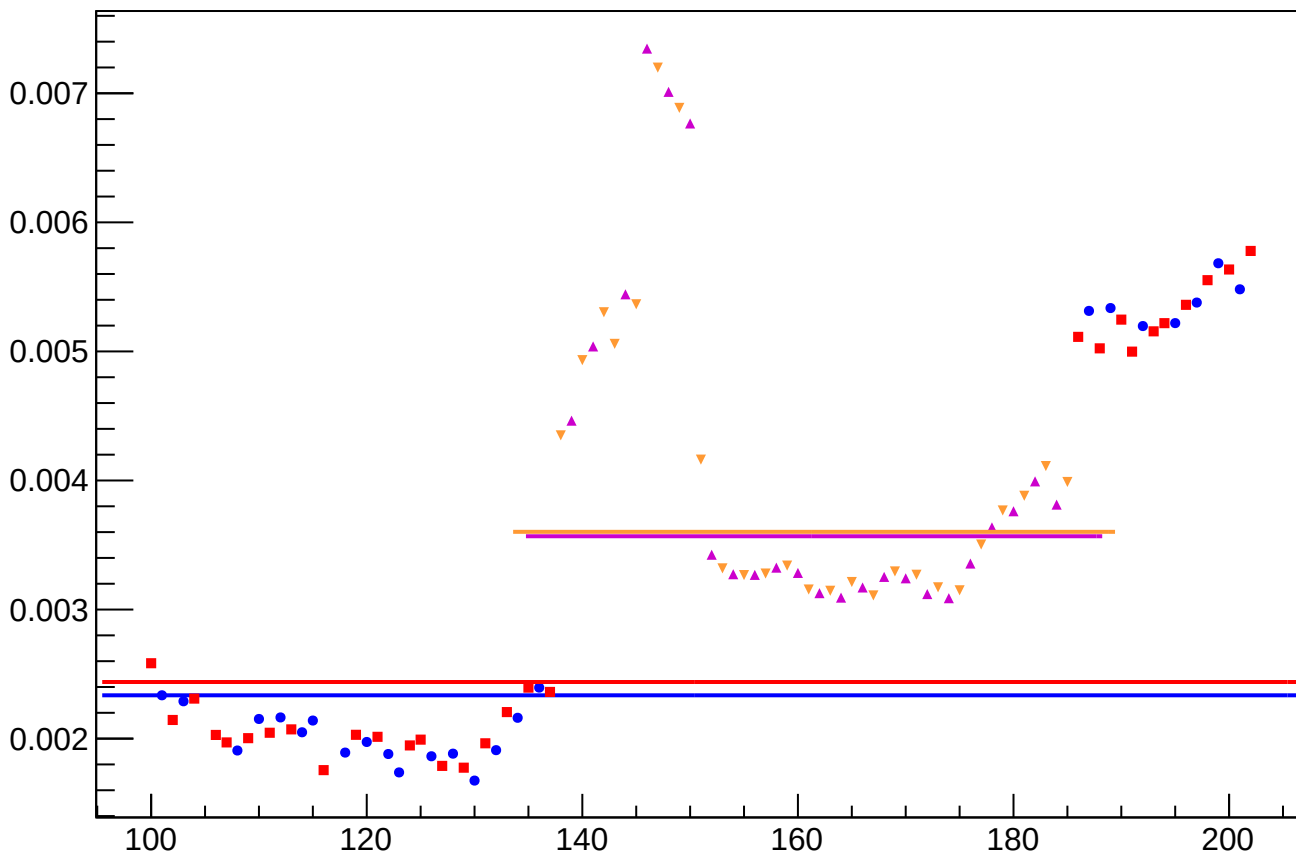
Right: 1.440+/-0.000 χ^2/NDF : 351799015974.1/52

In: 1.905+/-0.000 χ^2/NDF : 1356785756397.2/46

Out: 1.907+/-0.000 χ^2/NDF : 1323317055969.9/53

All: 1.906+/-0.000 χ^2/NDF : 2680109436511.1

yield_bpm0i01aY_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 3449496.9/23

Left Out: 0.004+/-0.000 χ^2/NDF :1410717.8/24

Right Out: 0.002+/-0.000 χ^2/NDF : 4361300.3/28

Left In: 0.004+/-0.000 χ^2/NDF :1563028.0/22

Left: 0.004+/-0.000 χ^2/NDF : 2975225.3/47

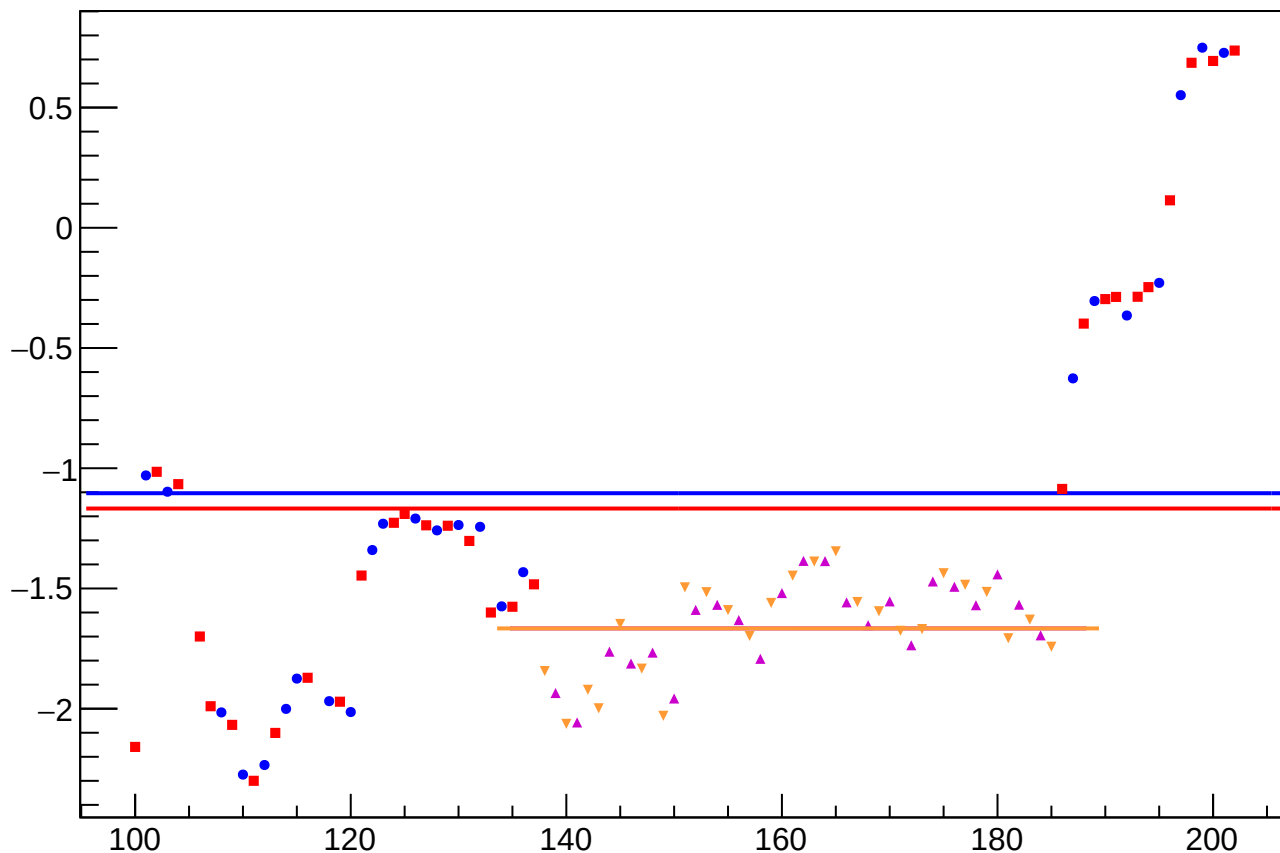
Right: 0.002+/-0.000 χ^2/NDF : 7829240.5/52

In: 0.003+/-0.000 χ^2/NDF :7164572.8/46

Out: 0.003+/-0.000 χ^2/NDF :7803665.1/53

All: 0.003+/-0.000 χ^2/NDF : 14982373.5/100

yield_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -1.104+/-0.000

χ^2/NDF : 123282593212.9/23

Left: -1.666+/-0.000

χ^2/NDF : 32617732948.1/47

Left Out: -1.666+/-0.000

χ^2/NDF : 18325162131.2/24

Right: -1.139+/-0.000

χ^2/NDF : 284242689163.3/52

Right Out: -1.168+/-0.000

χ^2/NDF : 160553972222.3/28

In: -1.494+/-0.000

χ^2/NDF : 177312508660.5/46

Out: -1.498+/-0.000

χ^2/NDF : 215741701993.3/53

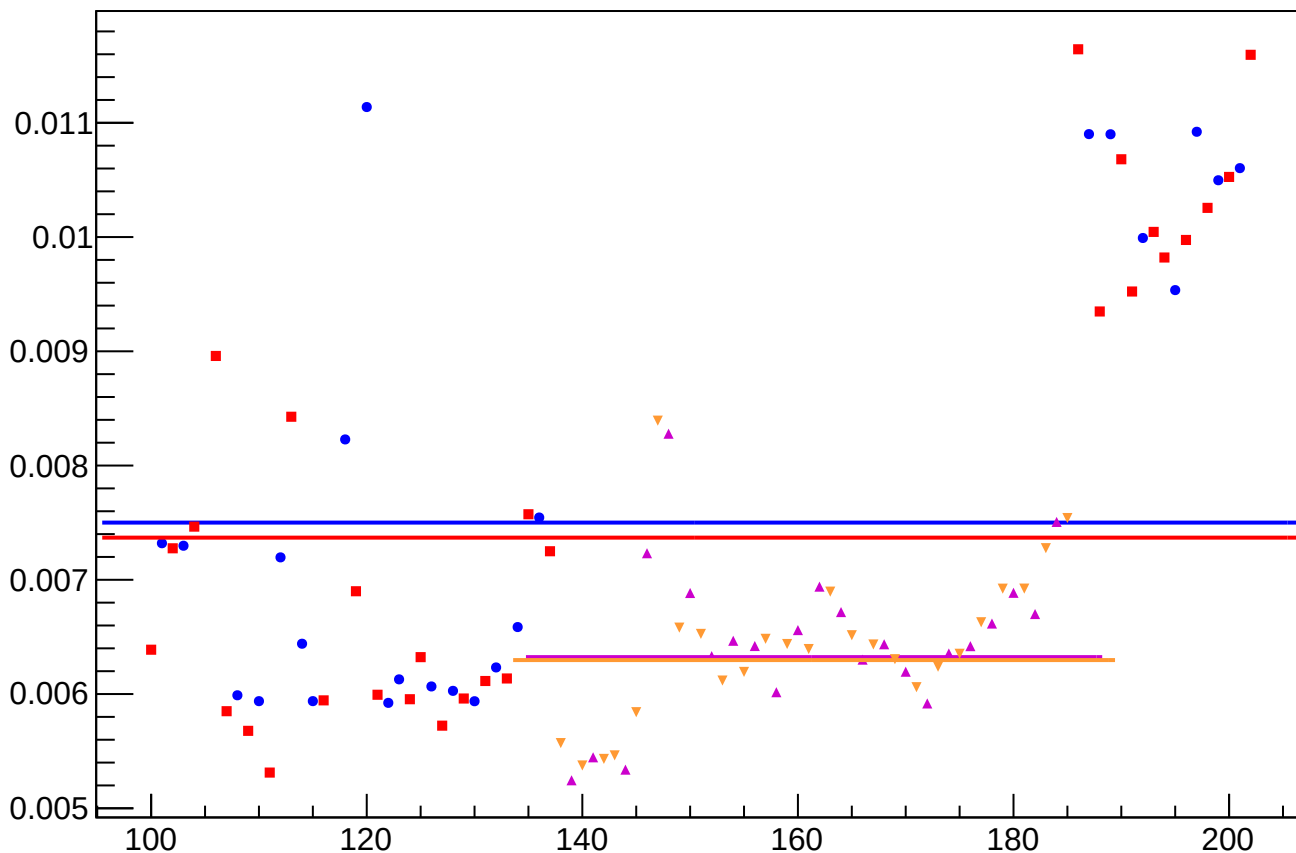
Left In: -1.666+/-0.000

χ^2/NDF : 14292570816.9/22

All: -1.496+/-0.000

χ^2/NDF : 393060962614.5

yield_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 0.008 $\pm$ 0.000 χ^2 /NDF: 1145913.9/23

Left Out: 0.006 $\pm$ 0.000 χ^2 /NDF:310757.0/24

Right Out: 0.007 $\pm$ 0.000 χ^2 /NDF: 1545219.6/28

Left In: 0.006 $\pm$ 0.000 χ^2 /NDF:330859.7/22

Left: 0.006 $\pm$ 0.000 χ^2 /NDF: 641901.9/47

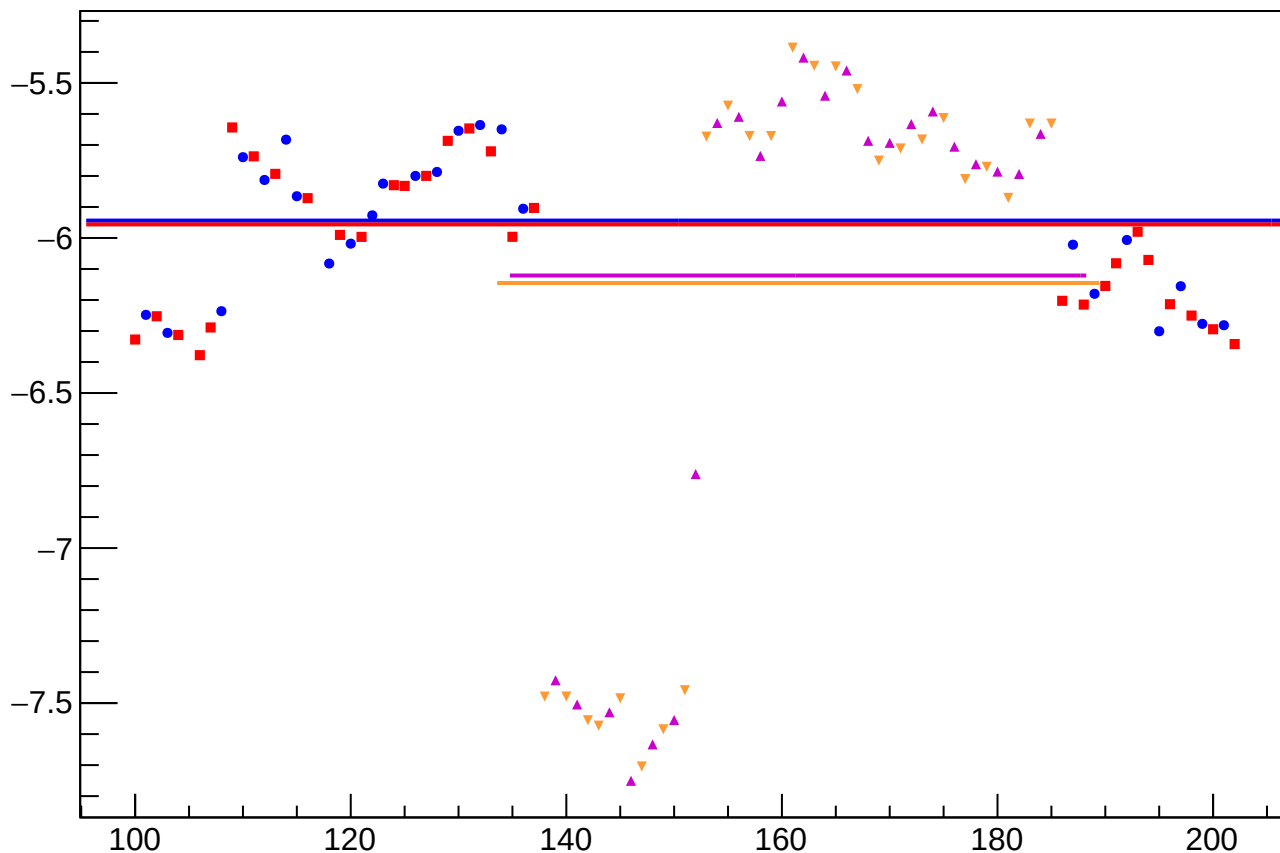
Right: 0.007 $\pm$ 0.000 χ^2 /NDF: 2694602.7/52

In: 0.007 $\pm$ 0.000 χ^2 /NDF:1825331.4/46

Out: 0.007 $\pm$ 0.000 χ^2 /NDF:2196683.7/53

All: 0.007 $\pm$ 0.000 χ^2 /NDF: 4022448.9/100

yield_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: -5.944+/-0.000 χ^2/NDF : 13350264984.9/23

Left Out: -6.145+/-0.000 χ^2/NDF : 185364150237.7/24

Right Out: -5.956+/-0.000 χ^2/NDF : 15337723029.0/28

Left In: -6.121+/-0.000 χ^2/NDF : 158315913062.3/22

Left: -6.133+/-0.000 χ^2/NDF : 343753122832.9/47

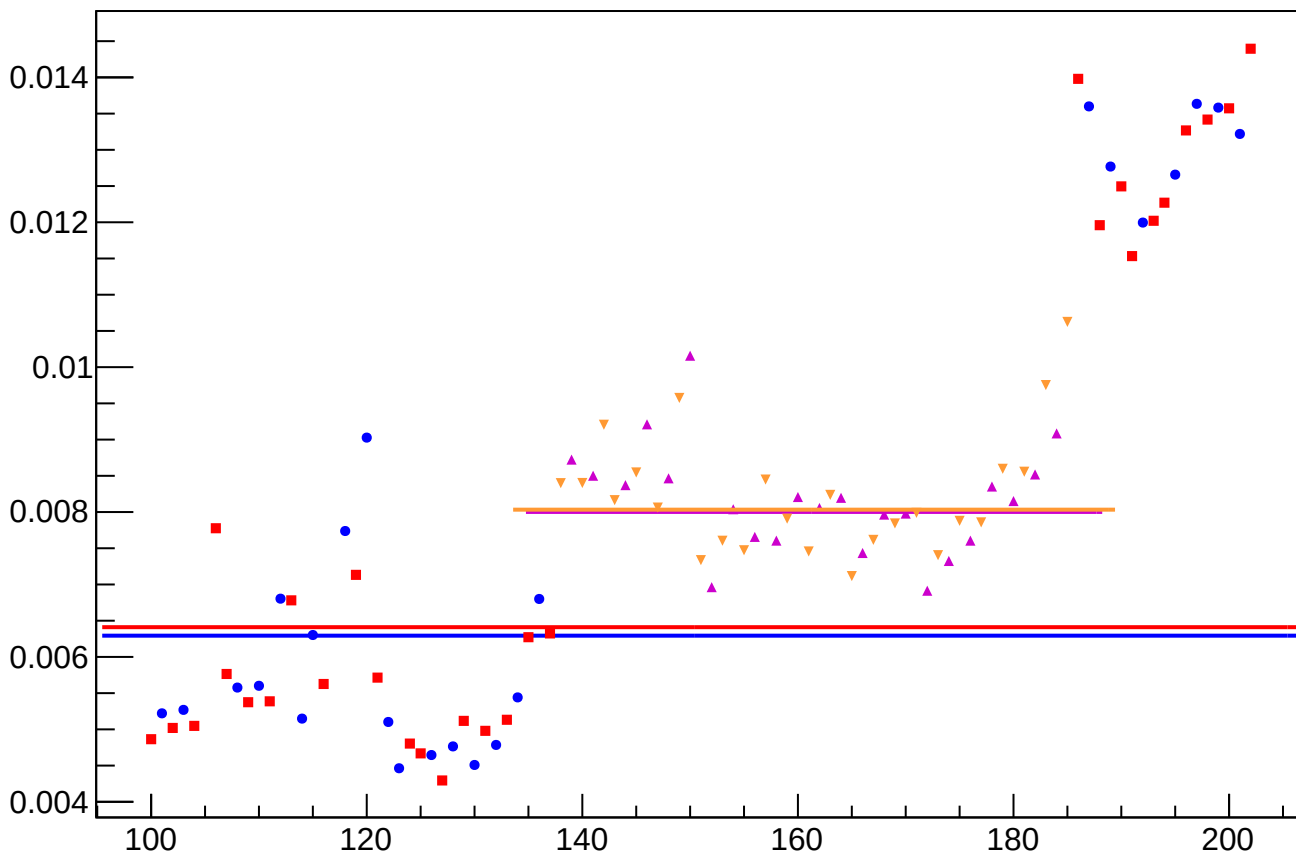
Right: -5.950+/-0.000 χ^2/NDF : 28706661136.6/52

In: -6.036+/-0.000 χ^2/NDF : 175394647338.0/46

Out: -6.050+/-0.000 χ^2/NDF : 205315455513.7/53

All: -6.043+/-0.000 χ^2/NDF : 380761644072.5

yield_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 3106469.2/23

Left Out: 0.008+/-0.000 χ^2/NDF :205762.2/24

Right Out: 0.006+/-0.000 χ^2/NDF : 3853382.5/28

Left In: 0.008+/-0.000 χ^2/NDF :220756.1/22

Left: 0.008+/-0.000 χ^2/NDF : 426763.2/47

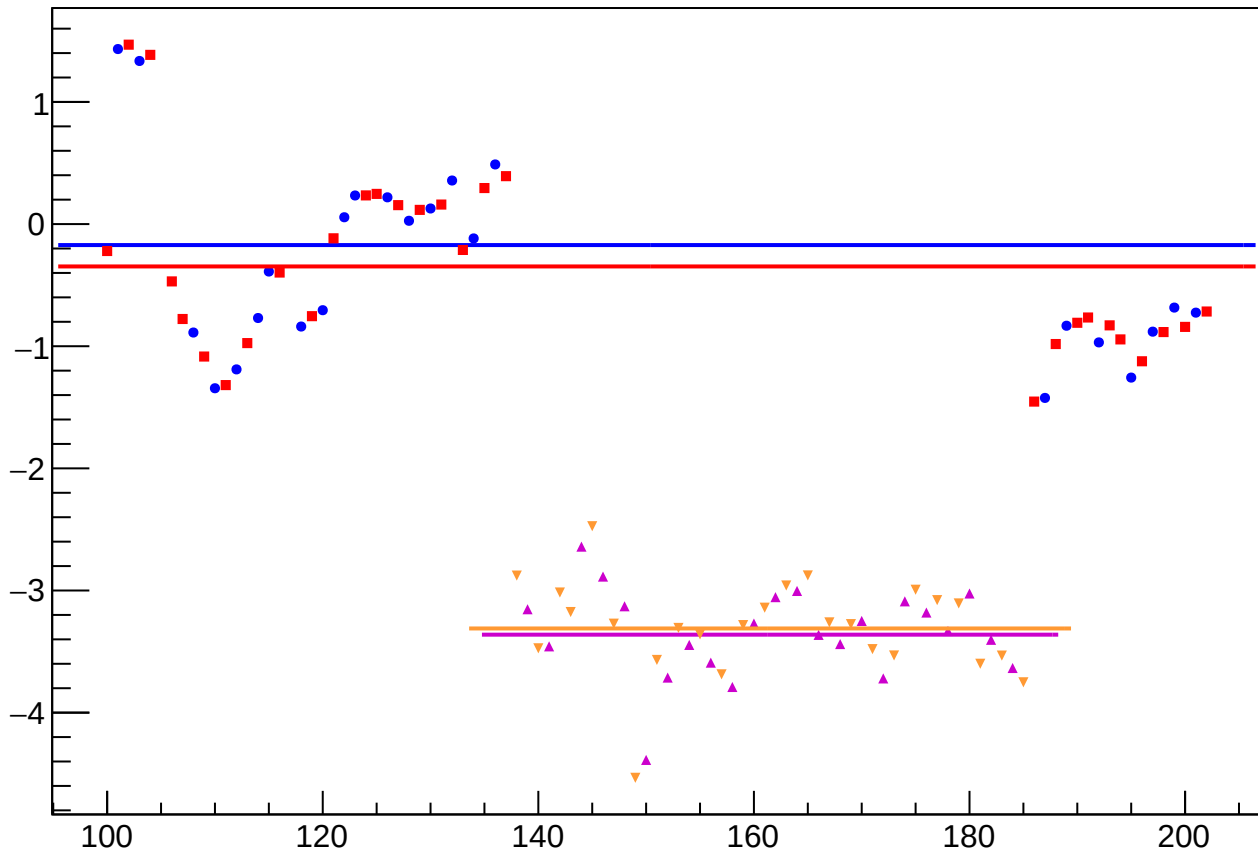
Right: 0.006+/-0.000 χ^2/NDF : 6963198.7/52

In: 0.007+/-0.000 χ^2/NDF :4020319.5/46

Out: 0.007+/-0.000 χ^2/NDF :4739617.0/53

All: 0.007+/-0.000 χ^2/NDF : 8760653.1/100

yield_bpm0l02X_mean vs Slug, Sign Corrected



Right In: -0.172+/-0.000 χ^2/NDF : 28603765429.7/23

Left Out: -3.311+/-0.000 χ^2/NDF : 9354397456.2/24

Right Out: -0.347+/-0.000 χ^2/NDF : 31401769182.6/28

Left In: -3.362+/-0.000 χ^2/NDF : 8171803777.4/22

Left: -3.336+/-0.000 χ^2/NDF : 17613895190.9/47

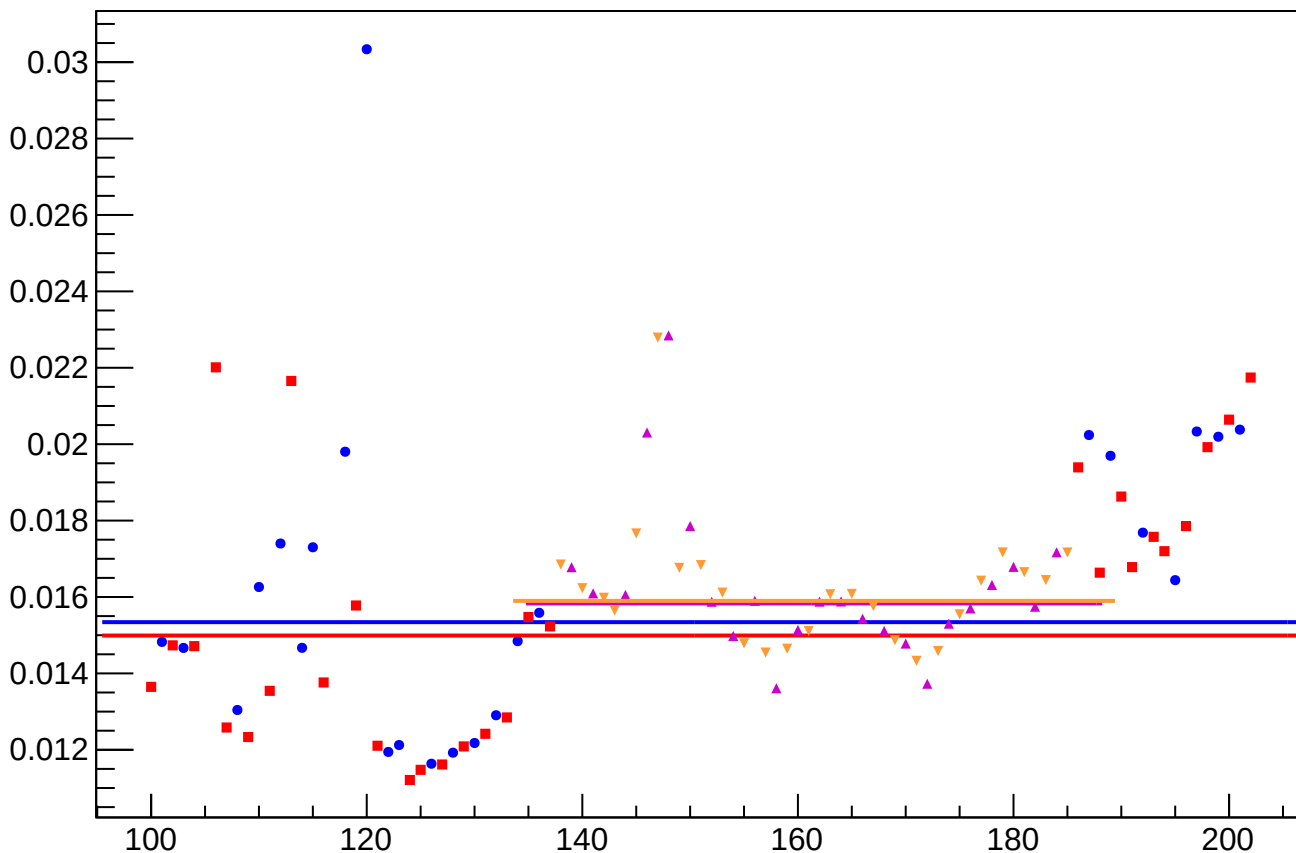
Right: -0.269+/-0.000 χ^2/NDF : 60748070019.3/52

In: -2.097+/-0.000 χ^2/NDF : 304063090577.7/46

Out: -2.009+/-0.000 χ^2/NDF : 310572199025.6/53

All: -2.050+/-0.000 χ^2/NDF : 615085089393.5

yield_bpm0l02X_rms vs Slug, Sign Corrected



Right In: 0.015+/-0.000 χ^2/NDF : 902747.1/23

Left Out: 0.016+/-0.000 χ^2/NDF : 251912.7/24

Right Out: 0.015+/-0.000 χ^2/NDF : 1000152.7/28

Left In: 0.016+/-0.000 χ^2/NDF : 339542.1/22

Left: 0.016+/-0.000 χ^2/NDF : 591766.7/47

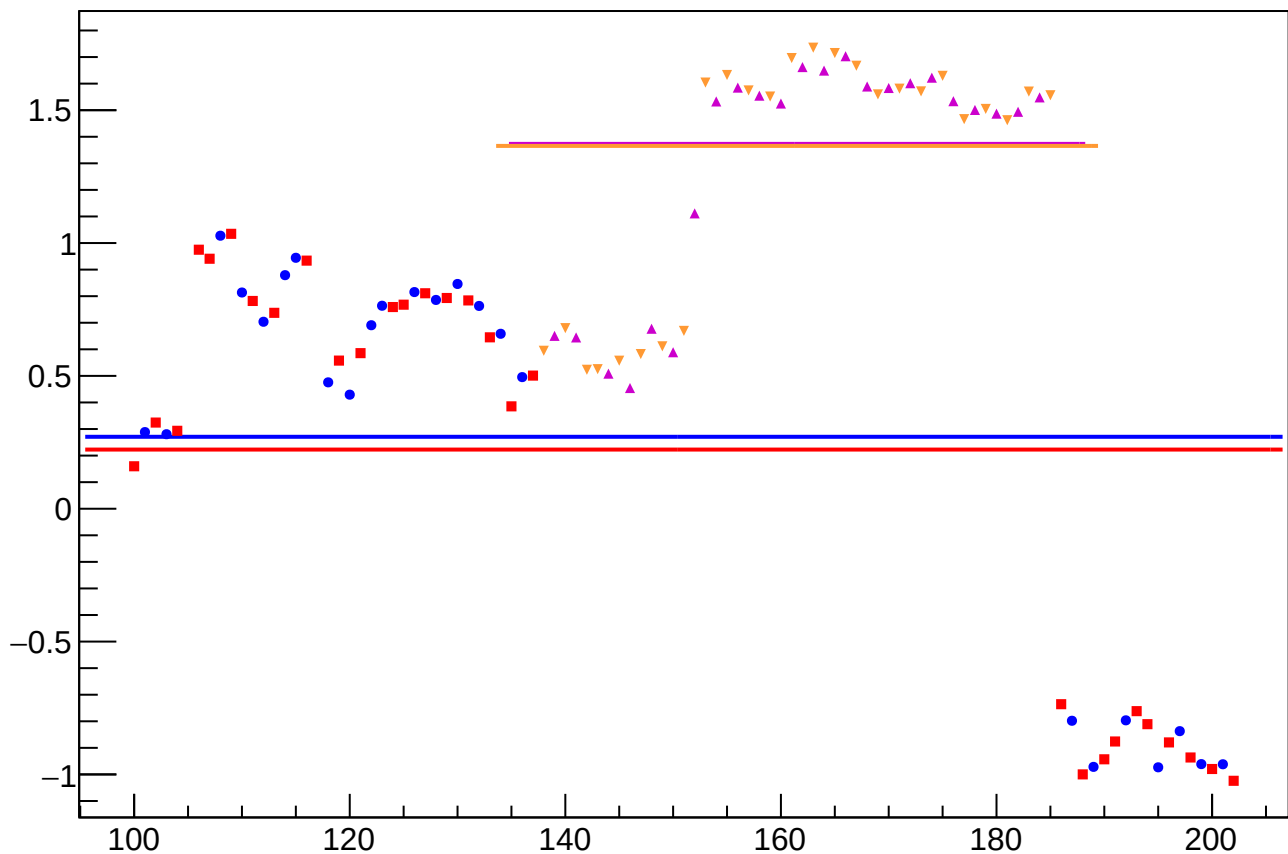
Right: 0.015+/-0.000 χ^2/NDF : 1908848.4/52

In: 0.016+/-0.000 χ^2/NDF : 1254864.6/46

Out: 0.015+/-0.000 χ^2/NDF : 1302612.9/53

All: 0.016+/-0.000 χ^2/NDF : 2559659.4/100

yield_bpm0l02Y_mean vs Slug, Sign Corrected



Right In: 0.271+/-0.000

χ^2/NDF : 55787072490.4/23

Left Out: 1.366+/-0.000

χ^2/NDF : 74741956067.9/24

Right Out: 0.223+/-0.000

χ^2/NDF : 73479765765.5/28

Left In: 1.373+/-0.000

χ^2/NDF : 63413151416.3/22

Left: 1.369+/-0.000

χ^2/NDF : 138167468300.7/47

Right: 0.245+/-0.000

χ^2/NDF : 129422174128.2/52

In: 1.127+/-0.000

χ^2/NDF : 235298837081.1/46

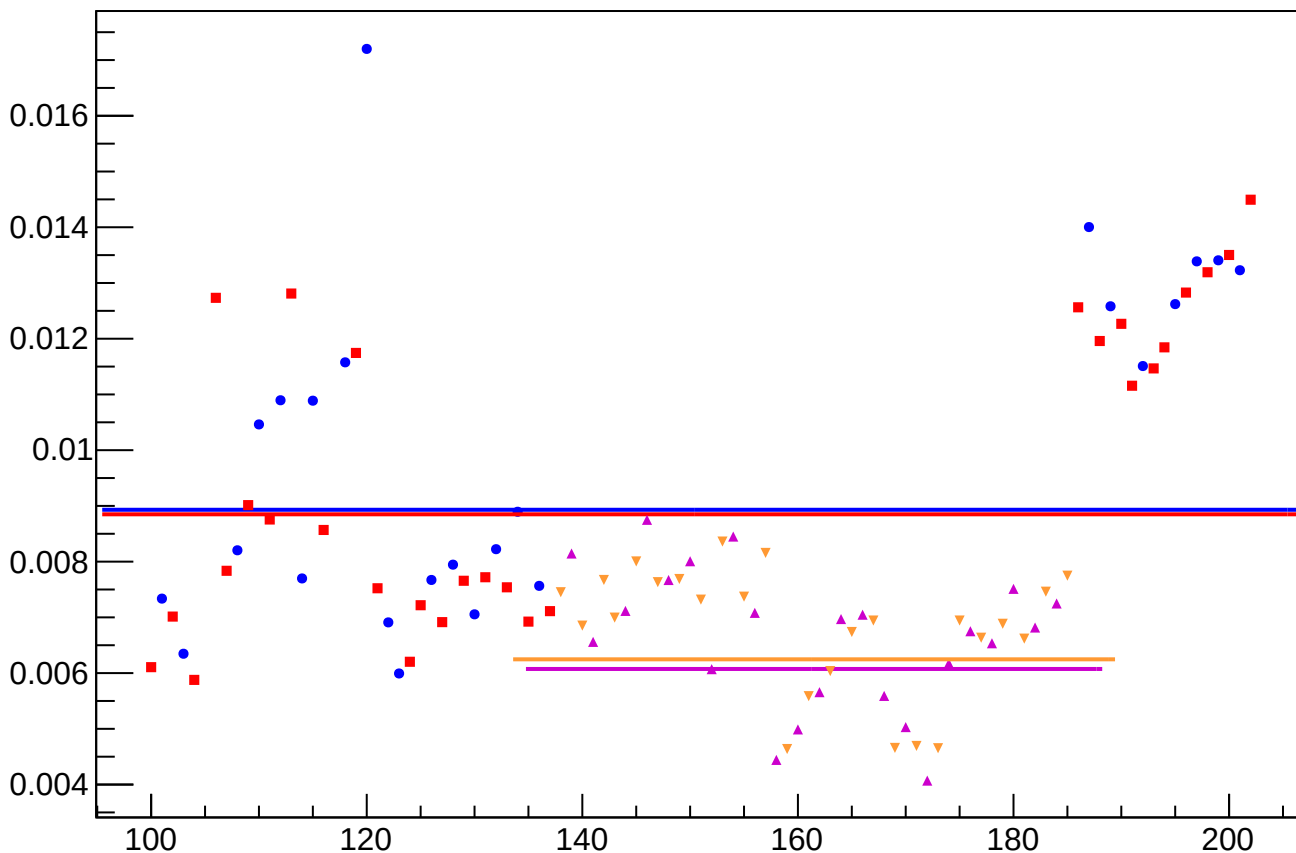
Out: 1.071+/-0.000

χ^2/NDF : 291645808177.8/53

All: 1.098+/-0.000

χ^2/NDF : 527819490432.5

yield_bpm0l02Y_rms vs Slug, Sign Corrected



Right In: 0.009+/-0.000 χ^2/NDF : 1543891.8/23

Left Out: 0.006+/-0.000 χ^2/NDF :1330867.5/24

Right Out: 0.009+/-0.000 χ^2/NDF : 1898478.5/28

Left In: 0.006+/-0.000 χ^2/NDF :1431986.5/22

Left: 0.006+/-0.000 χ^2/NDF : 2775615.7/47

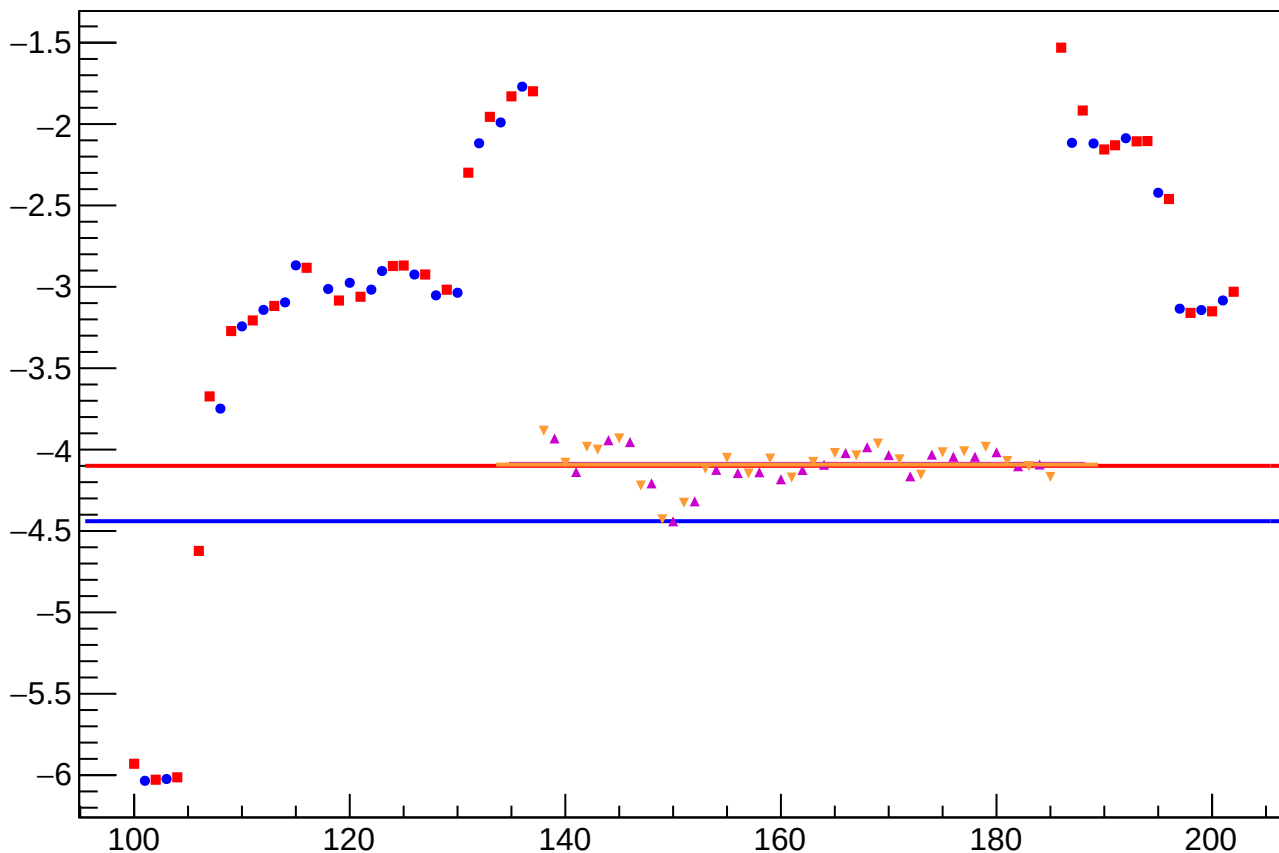
Right: 0.009+/-0.000 χ^2/NDF : 3443263.8/52

In: 0.007+/-0.000 χ^2/NDF :4534934.6/46

Out: 0.007+/-0.000 χ^2/NDF :4716245.7/53

All: 0.007+/-0.000 χ^2/NDF : 9274832.4/100

yield_bpm0l03X_mean vs Slug, Sign Corrected



Right In: -4.440+/-0.000

χ^2/NDF : 250768404199.0/23

Left: -4.089+/-0.000

χ^2/NDF : 74248792.8/47

Left Out: -4.092+/-0.000

χ^2/NDF : 39806766.7/24

Right: -4.281+/-0.000

χ^2/NDF : 523641550307.6/52

Right Out: -4.100+/-0.000

χ^2/NDF : 268044776229.6/28

In: -4.424+/-0.000

χ^2/NDF : 251307190639.1/46

Out: -4.099+/-0.000

χ^2/NDF : 268084754735.9/53

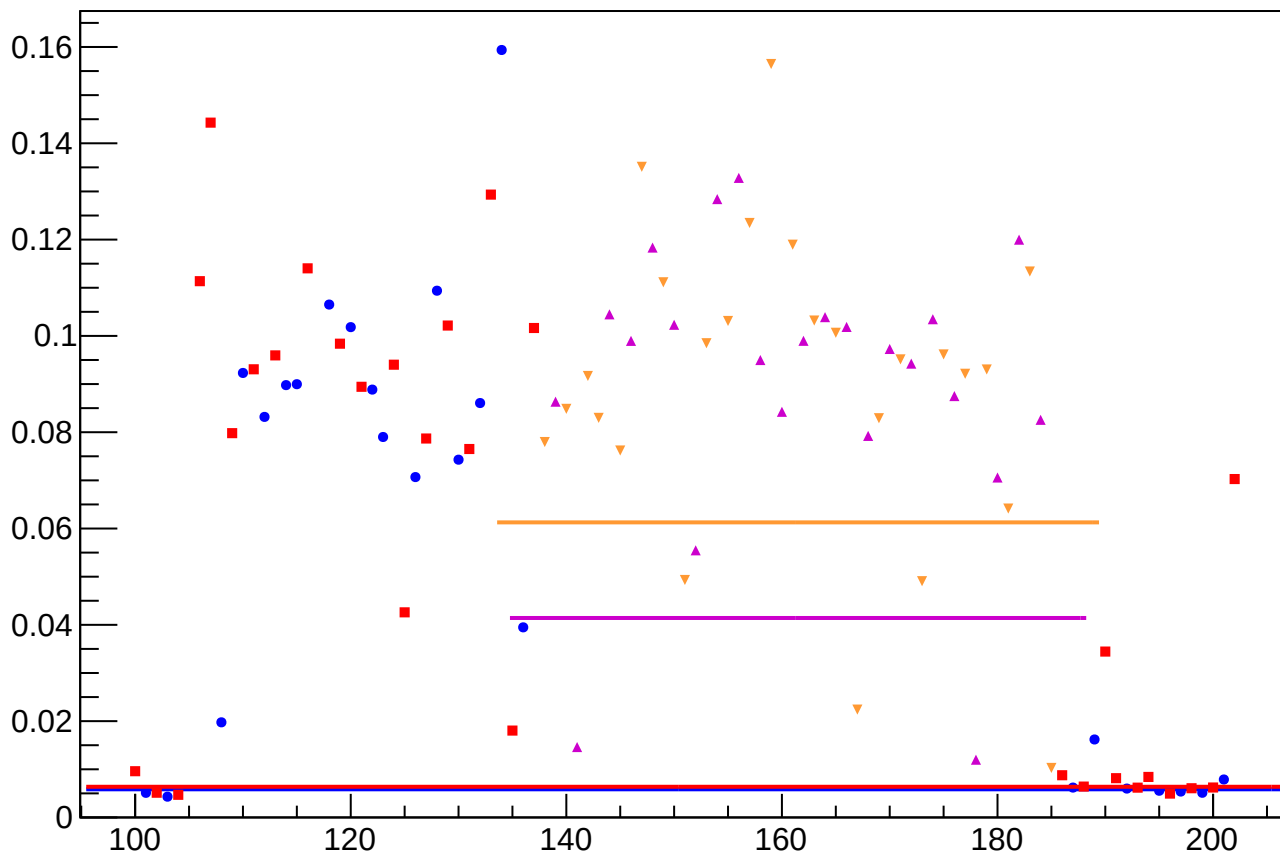
Left In: -4.088+/-0.000

χ^2/NDF : 34412880.7/22

All: -4.273+/-0.000

χ^2/NDF : 523969727792.3

yield_bpm0l03X_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 8039694.6/23

Left Out: 0.061+/-0.000 χ^2/NDF :8355266.0/24

Right Out: 0.006+/-0.000 χ^2/NDF : 9253531.6/28

Left In: 0.041+/-0.000 χ^2/NDF :13124468.7/22

Left: 0.050+/-0.000 χ^2/NDF : 22855159.2/47

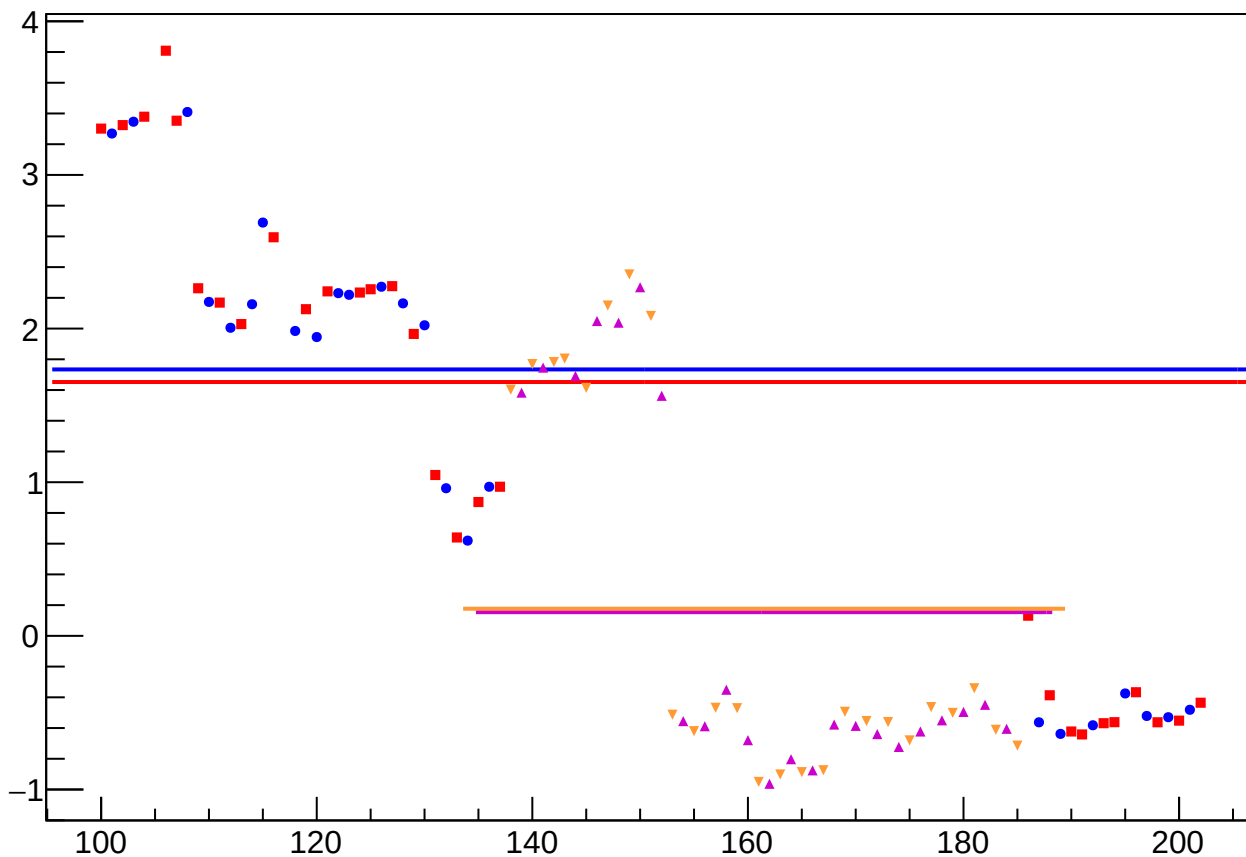
Right: 0.006+/-0.000 χ^2/NDF : 17316320.1/52

In: 0.007+/-0.000 χ^2/NDF :31468788.5/46

Out: 0.008+/-0.000 χ^2/NDF :34763943.0/53

All: 0.008+/-0.000 χ^2/NDF : 66303585.8/100

yield_bpm0l03Y_mean vs Slug, Sign Corrected



Right In: 1.734 $\pm$ 0.000 χ^2 /NDF: 168249604900.8/23

Left Out: 0.177 $\pm$ 0.000 χ^2 /NDF: 3275313367.7/24

Right Out: 1.652 $\pm$ 0.000 χ^2 /NDF: 166065977899.9/28

Left In: 0.154 $\pm$ 0.000 χ^2 /NDF: 3163553595.0/22

Left: 0.165 $\pm$ 0.000 χ^2 /NDF: 6439465655.5/47

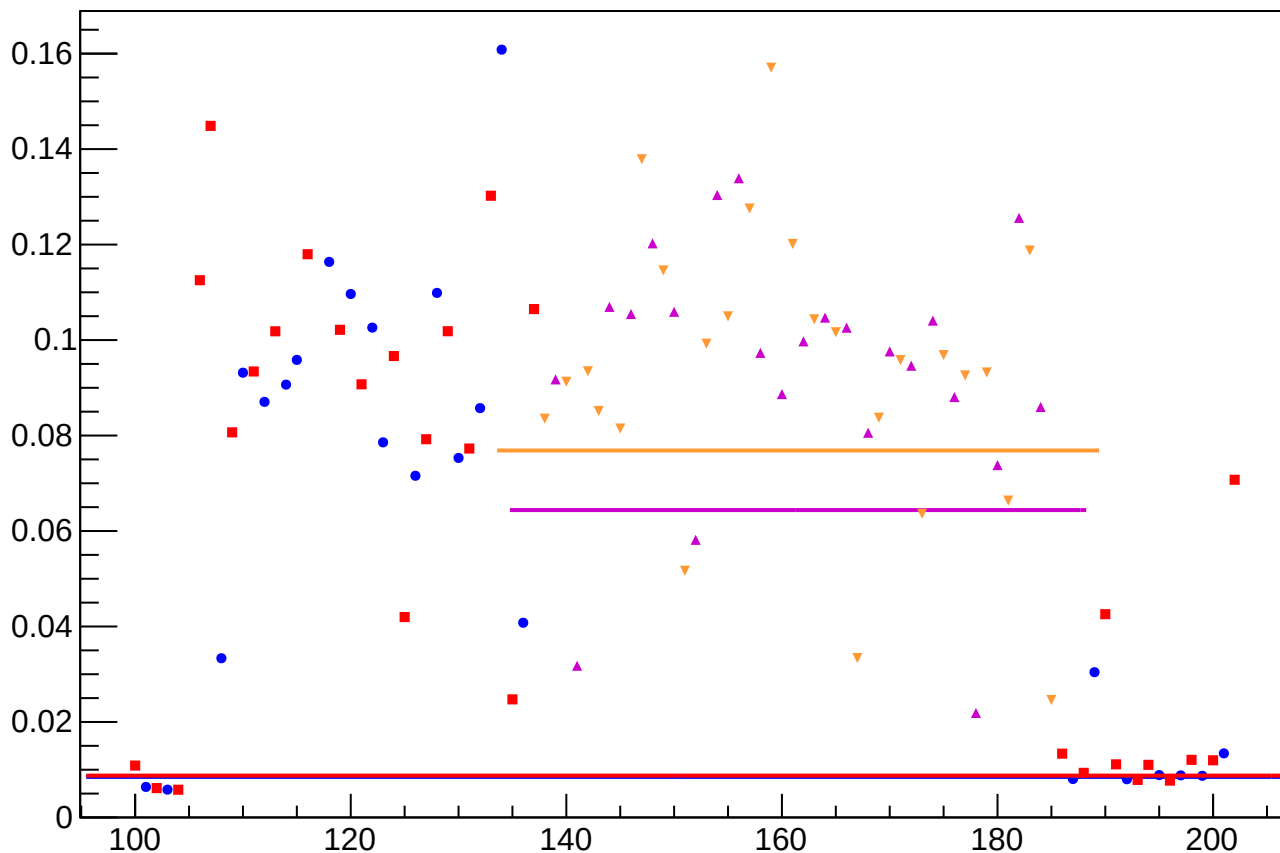
Right: 1.694 $\pm$ 0.000 χ^2 /NDF: 334475591085.2/52

In: 1.654 $\pm$ 0.000 χ^2 /NDF: 177524649108.0/46

Out: 1.584 $\pm$ 0.000 χ^2 /NDF: 174051121455.8/53

All: 1.620 $\pm$ 0.000 χ^2 /NDF: 351697561012.9

yield_bpm0l03Y_rms vs Slug, Sign Corrected



Right In: 0.009+/-0.000 χ^2/NDF : 7990845.5/23

Left Out: 0.077+/-0.000 χ^2/NDF : 4217954.3/24

Right Out: 0.009+/-0.000 χ^2/NDF : 9132995.7/28

Left In: 0.064+/-0.000 χ^2/NDF : 6990231.5/22

Left: 0.070+/-0.000 χ^2/NDF : 11584112.3/47

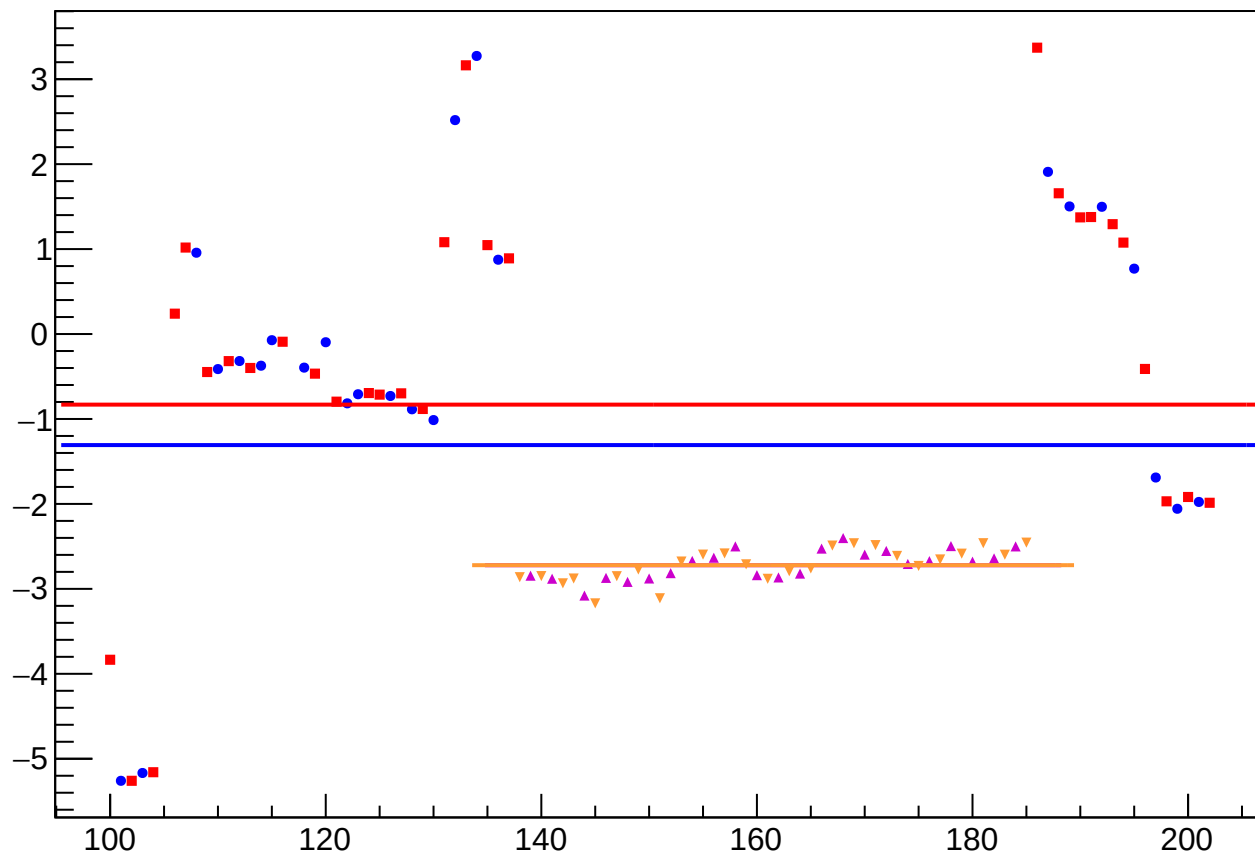
Right: 0.009+/-0.000 χ^2/NDF : 17127117.3/52

In: 0.011+/-0.000 χ^2/NDF : 30277423.4/46

Out: 0.012+/-0.000 χ^2/NDF : 33416305.9/53

All: 0.012+/-0.000 χ^2/NDF : 63709528.1/100

yield_bpm0l04X_mean vs Slug, Sign Corrected



Left: -2.722 $\pm$ 0.000 χ^2/NDF : 18543711860.5/47
 Right: -1.046 $\pm$ 0.000 χ^2/NDF : 439336390984.0/52
 In: -2.571 $\pm$ 0.000 χ^2/NDF : 269926187339.2/46
 Out: -2.494 $\pm$ 0.000 χ^2/NDF : 367197668410.1/53
 All: -2.531 $\pm$ 0.000 χ^2/NDF : 638072232865.8

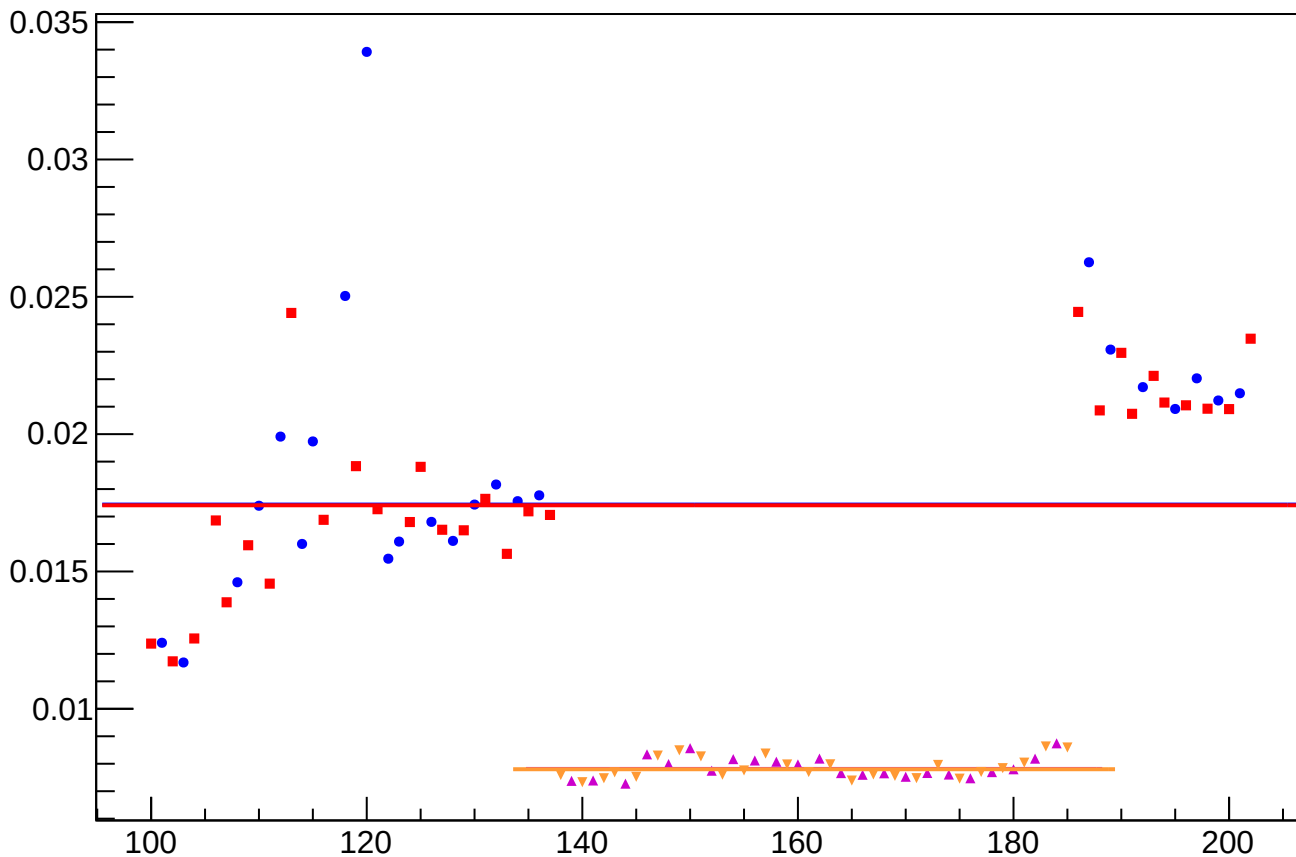
Right In: -1.307 $\pm$ 0.000 χ^2/NDF : 203427449817.9/23

Left Out: -2.721 $\pm$ 0.000 χ^2/NDF : 10397156971.6/24

Right Out: -0.831 $\pm$ 0.000 χ^2/NDF : 231845030493.1/28

Left In: -2.722 $\pm$ 0.000 χ^2/NDF : 8146484592.1/22

yield_bpm0l04X_rms vs Slug, Sign Corrected



Right In: 0.017+/-0.000 χ^2/NDF : 1093234.1/23

Left Out: 0.008+/-0.000 χ^2/NDF : 71164.4/24

Right Out: 0.017+/-0.000 χ^2/NDF : 1051618.6/28

Left In: 0.008+/-0.000 χ^2/NDF : 67610.2/22

Left: 0.008+/-0.000 χ^2/NDF : 138804.4/47

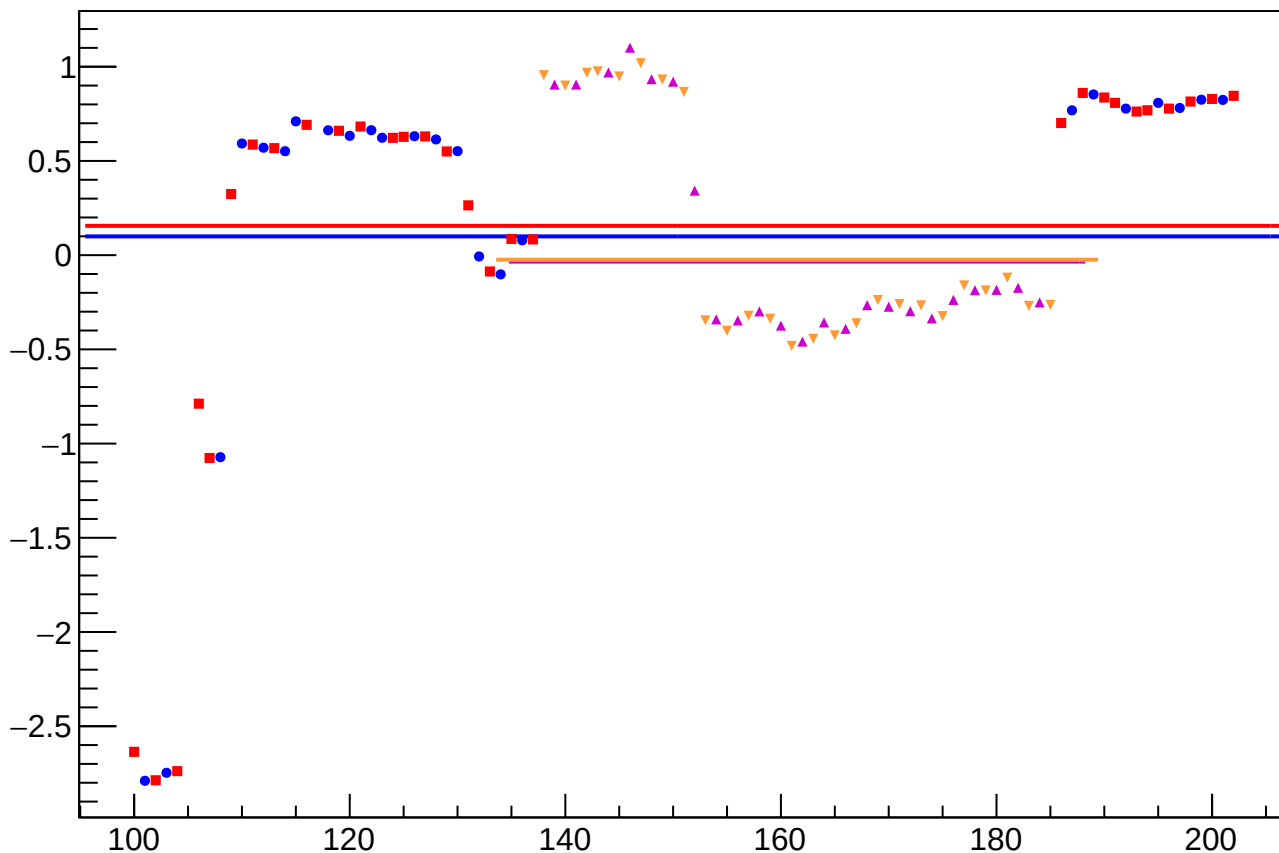
Right: 0.017+/-0.000 χ^2/NDF : 2144875.7/52

In: 0.009+/-0.000 χ^2/NDF : 6563237.7/46

Out: 0.009+/-0.000 χ^2/NDF : 7582864.4/53

All: 0.009+/-0.000 χ^2/NDF : 14150655.1/100

yield_bpm0l04Y_mean vs Slug, Sign Corrected



Right In: 0.100+/-0.000

χ^2/NDF : 830732969108.8/23

Left: -0.029+/-0.000

χ^2/NDF : 249405201350.6/47

Right: 0.130+/-0.000

χ^2/NDF : 1739617299007.9/52

Left Out: -0.024+/-0.000

χ^2/NDF : 135451649275.0/24

In: 0.045+/-0.000

χ^2/NDF : 949630592781.2/46

Right Out: 0.156+/-0.000

χ^2/NDF : 907722154181.4/28

Out: 0.088+/-0.000

χ^2/NDF : 1052922207132.8/53

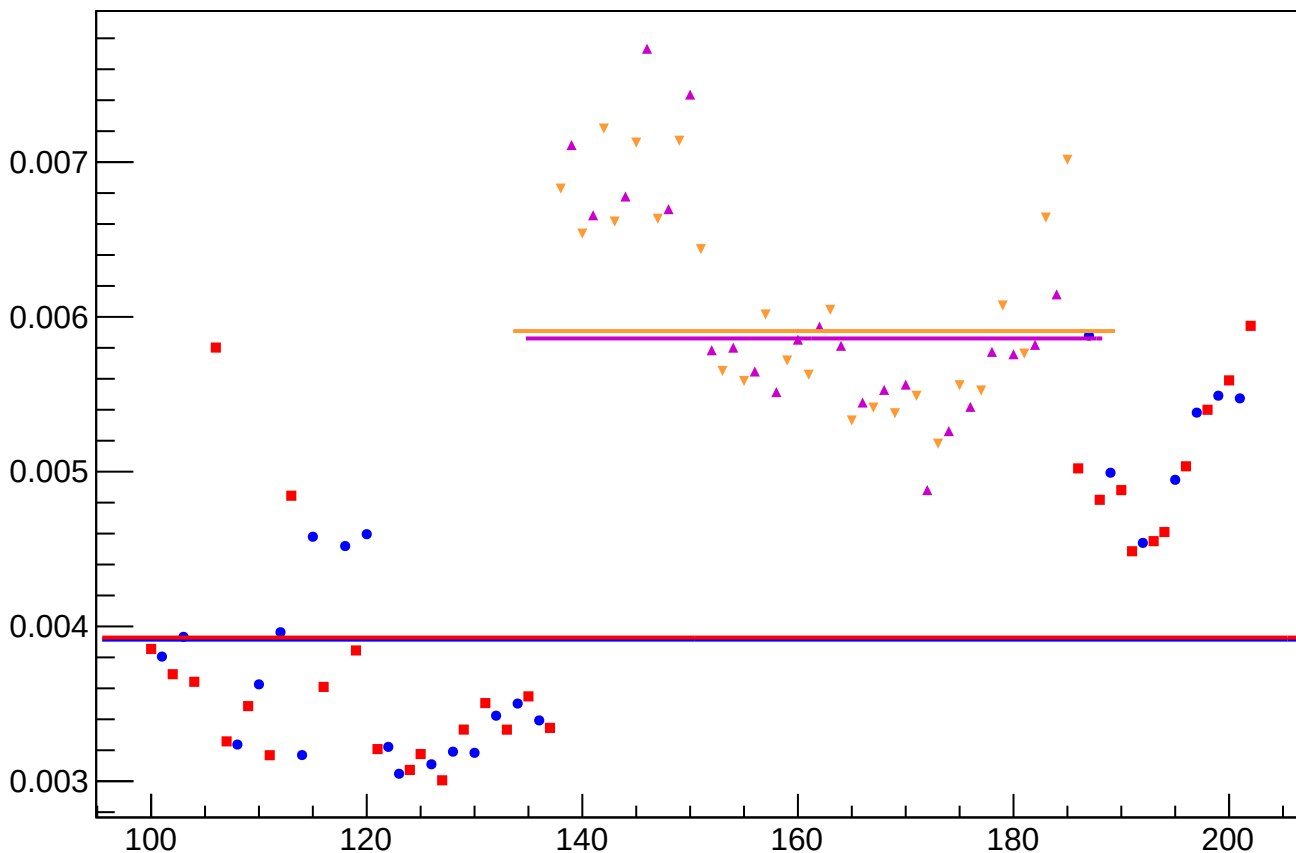
Left In: -0.034+/-0.000

χ^2/NDF : 113929060918.1/22

All: 0.068+/-0.000

χ^2/NDF : 2003662574668.

yield_bpm0l04Y_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 881291.8/23

Left Out: 0.006+/-0.000 χ^2/NDF :314309.7/24

Right Out: 0.004+/-0.000 χ^2/NDF : 1090778.7/28

Left In: 0.006+/-0.000 χ^2/NDF :364512.1/22

Left: 0.006+/-0.000 χ^2/NDF : 679905.3/47

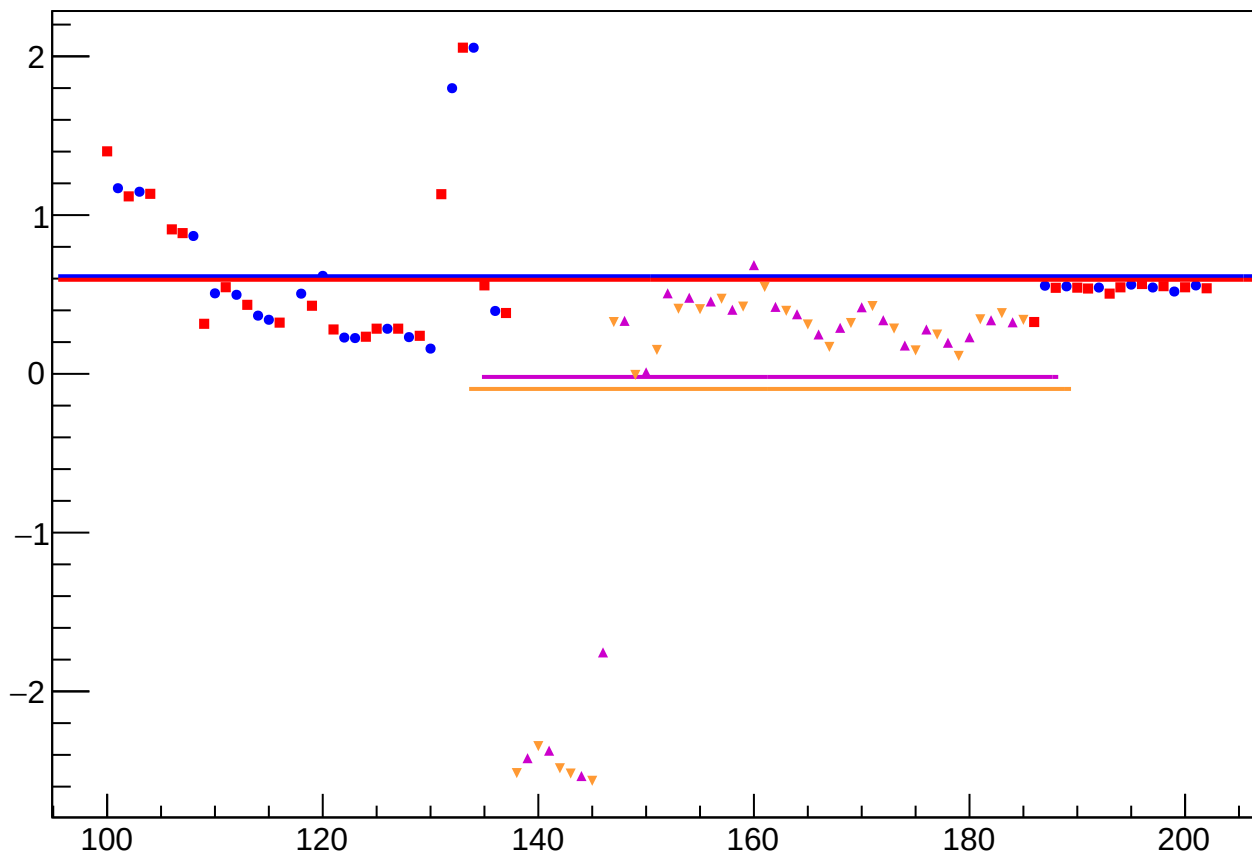
Right: 0.004+/-0.000 χ^2/NDF : 1972202.7/52

In: 0.005+/-0.000 χ^2/NDF :3345442.6/46

Out: 0.005+/-0.000 χ^2/NDF :3770727.3/53

All: 0.005+/-0.000 χ^2/NDF : 7117310.9/100

yield_bpm0l05X_mean vs Slug, Sign Corrected



Right In: 0.615 $\pm$ 0.000 χ^2 /NDF: 40186738659.8/23

Left Out: -0.095 $\pm$ 0.000 χ^2 /NDF: 505606573631.9/24

Right Out: 0.593 $\pm$ 0.000 χ^2 /NDF: 45730499868.2/28

Left In: -0.019 $\pm$ 0.000 χ^2 /NDF: 417104863944.5/22

Left: -0.058 $\pm$ 0.000 χ^2 /NDF: 924153662333.7/47

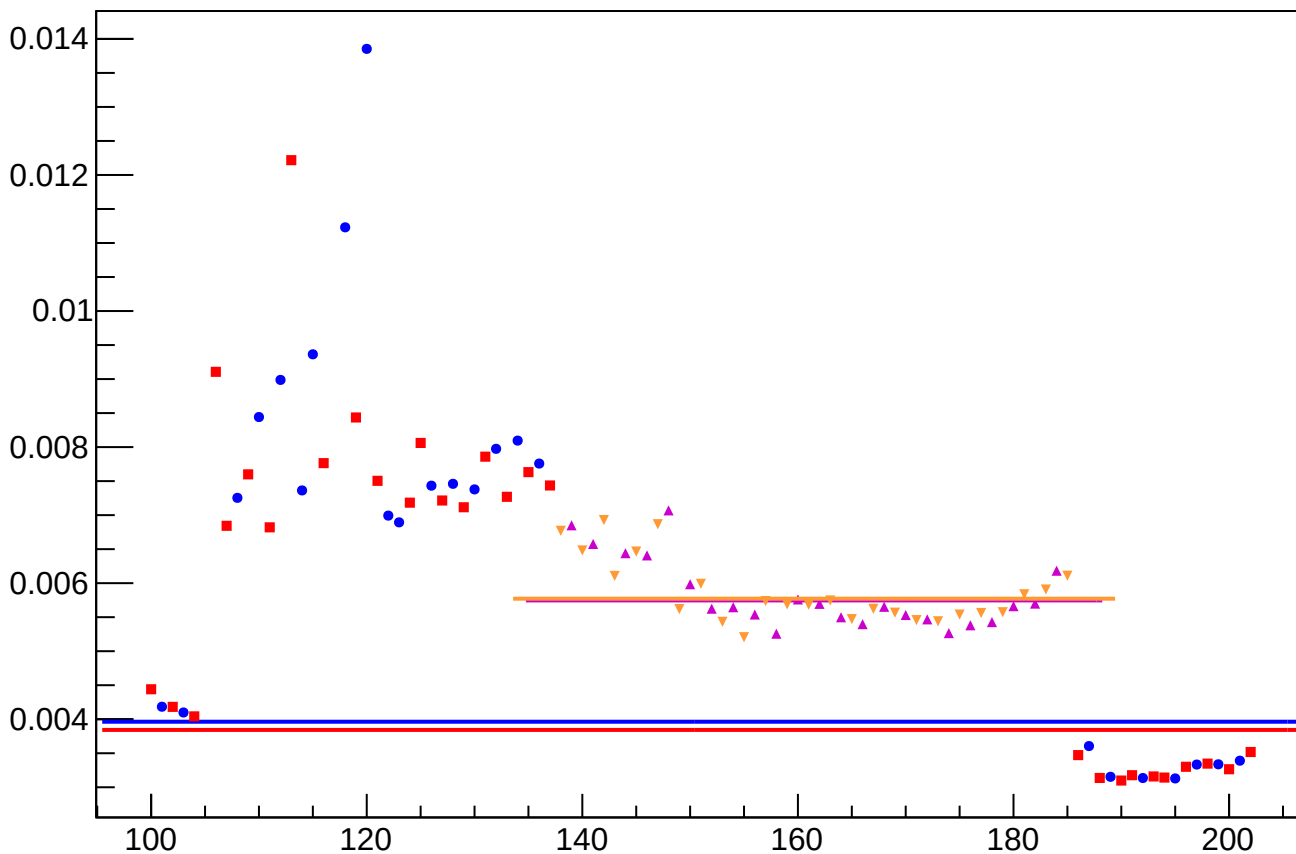
Right: 0.602 $\pm$ 0.000 χ^2 /NDF: 86077590600.8/52

In: 0.321 $\pm$ 0.000 χ^2 /NDF: 563713048548.9/46

Out: 0.311 $\pm$ 0.000 χ^2 /NDF: 695279626691.0/53

All: 0.316 $\pm$ 0.000 χ^2 /NDF: 1259043698115.

yield_bpm0l05X_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 3034408.2/23

Left Out: 0.006+/-0.000 χ^2/NDF :177680.7/24

Right Out: 0.004+/-0.000 χ^2/NDF : 3118852.9/28

Left In: 0.006+/-0.000 χ^2/NDF :204066.4/22

Left: 0.006+/-0.000 χ^2/NDF : 382076.8/47

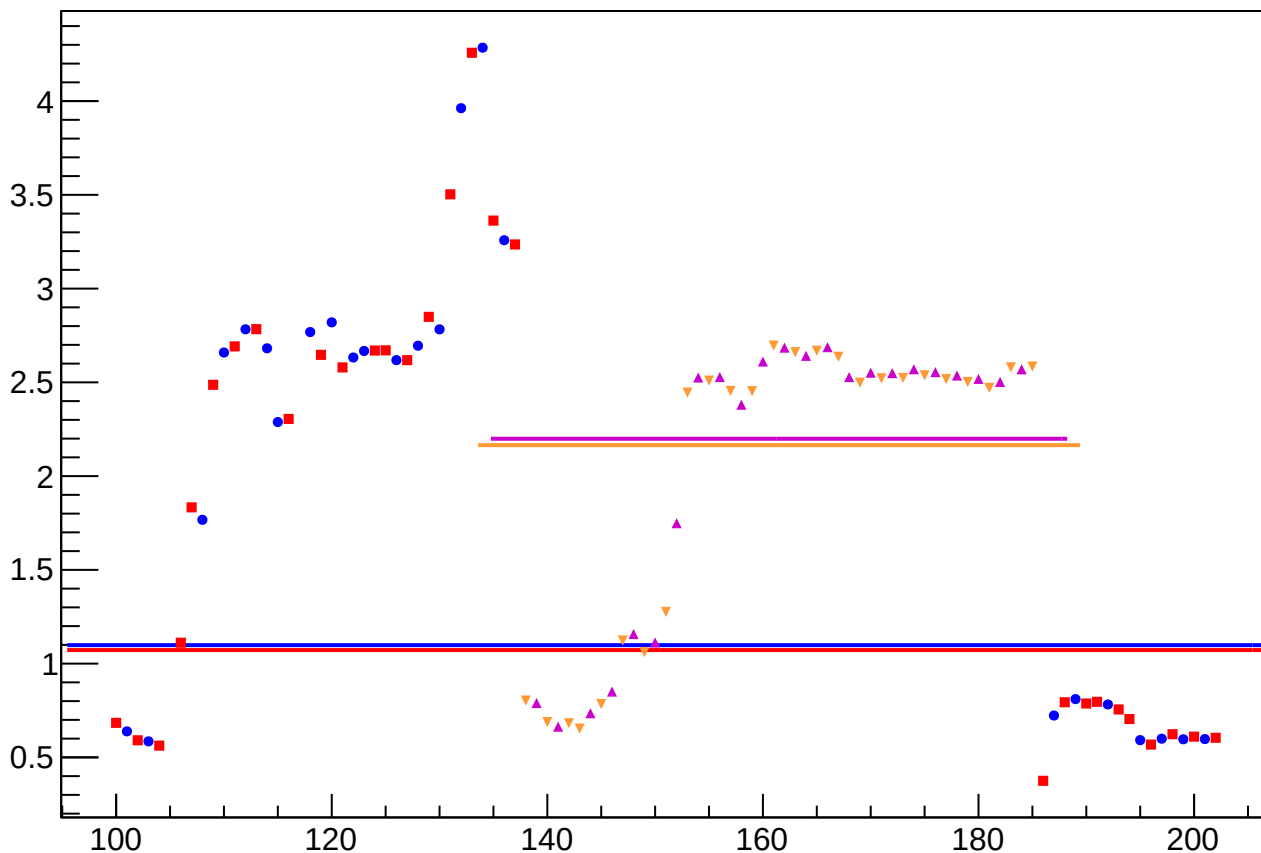
Right: 0.004+/-0.000 χ^2/NDF : 6162636.8/52

In: 0.005+/-0.000 χ^2/NDF :4920473.8/46

Out: 0.005+/-0.000 χ^2/NDF :5562380.8/53

All: 0.005+/-0.000 χ^2/NDF : 10511759.5/100

yield_bpm0l05Y_mean vs Slug, Sign Corrected



Right In: 1.099+/-0.000 χ^2/NDF : 274359679125.2/23

Left Out: 2.165+/-0.000 χ^2/NDF : 292800056899.6/24

Right Out: 1.072+/-0.000 χ^2/NDF : 328244855501.0/28

Left In: 2.199+/-0.000 χ^2/NDF : 253166239065.4/22

Left: 2.182+/-0.000 χ^2/NDF : 546302258971.9/47

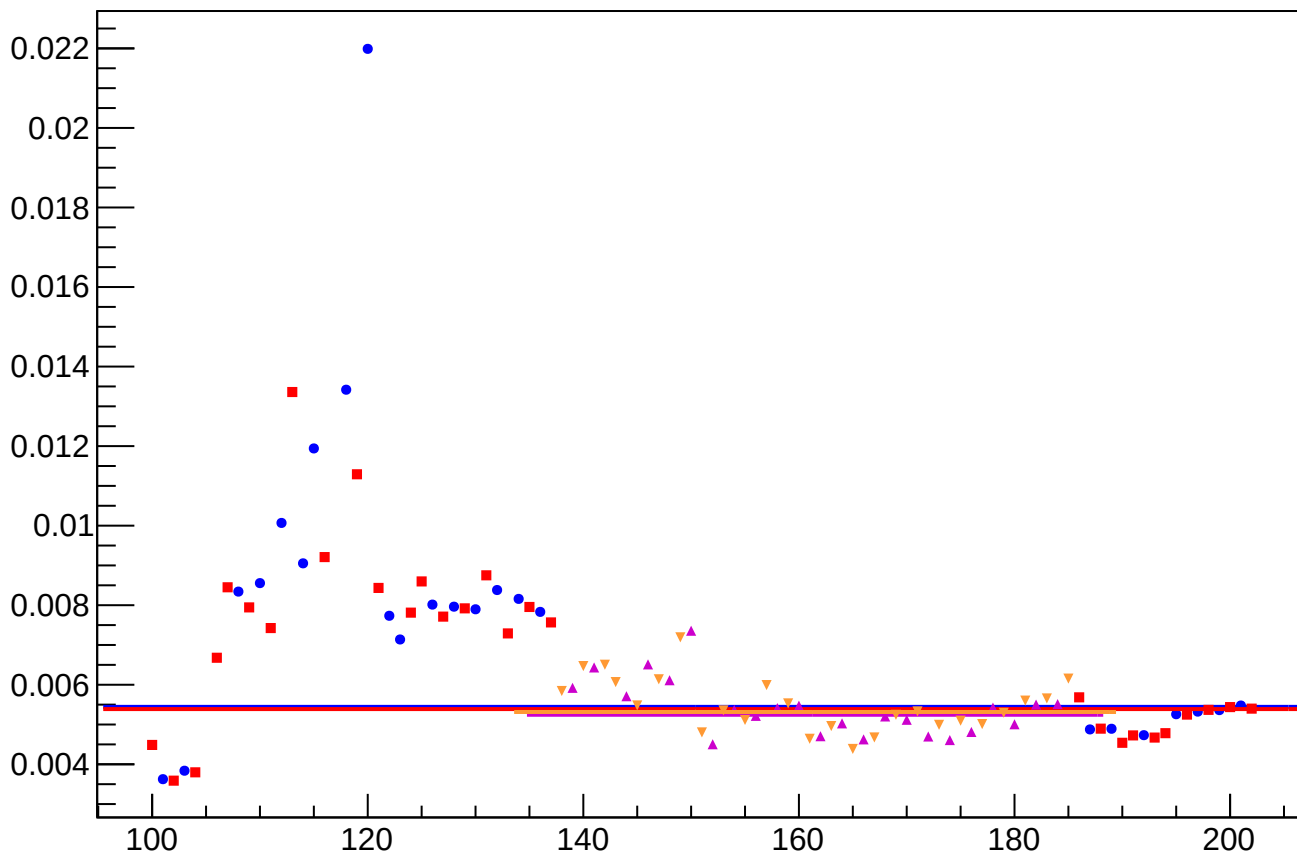
Right: 1.084+/-0.000 χ^2/NDF : 602724558876.4/52

In: 1.809+/-0.000 χ^2/NDF : 773234303735.5/46

Out: 1.727+/-0.000 χ^2/NDF : 902225567187.5/53

All: 1.766+/-0.000 χ^2/NDF : 1678597658521.

yield_bpm0l05Y_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 2004766.5/23

Left Out: 0.005+/-0.000 χ^2/NDF : 398795.0/24

Right Out: 0.005+/-0.000 χ^2/NDF : 1876099.7/28

Left In: 0.005+/-0.000 χ^2/NDF : 425864.8/22

Left: 0.005+/-0.000 χ^2/NDF : 827475.4/47

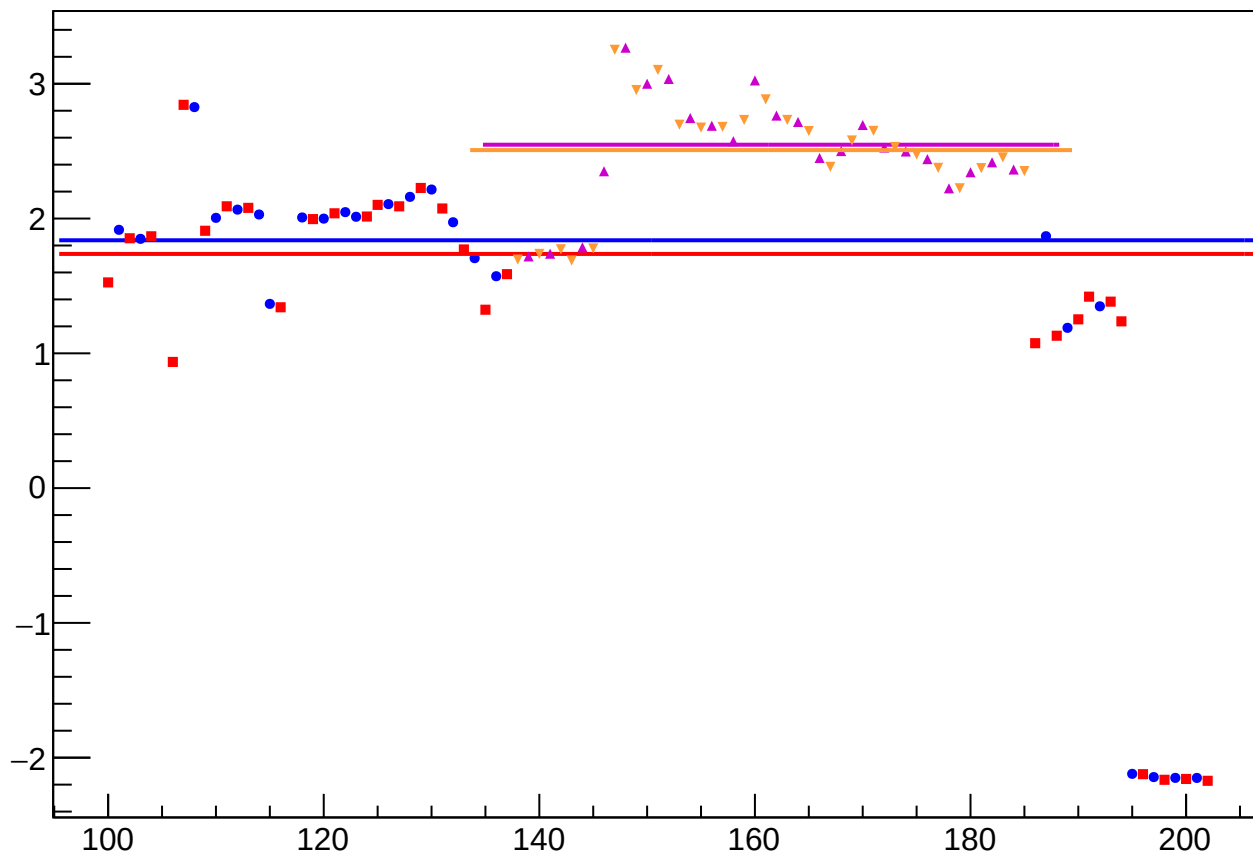
Right: 0.005+/-0.000 χ^2/NDF : 3881944.0/52

In: 0.005+/-0.000 χ^2/NDF : 2446594.7/46

Out: 0.005+/-0.000 χ^2/NDF : 2277413.0/53

All: 0.005+/-0.000 χ^2/NDF : 4724775.2/100

yield_bpm0l06X_mean vs Slug, Sign Corrected



Right In: 1.839+/-0.000 χ^2/NDF : 85877821936.4/23

Left Out: 2.508+/-0.000 χ^2/NDF : 52355332406.0/24

Right Out: 1.737+/-0.000 χ^2/NDF : 93245623717.4/28

Left In: 2.548+/-0.000 χ^2/NDF : 45350336058.7/22

Left: 2.527+/-0.000 χ^2/NDF : 97963993742.3/47

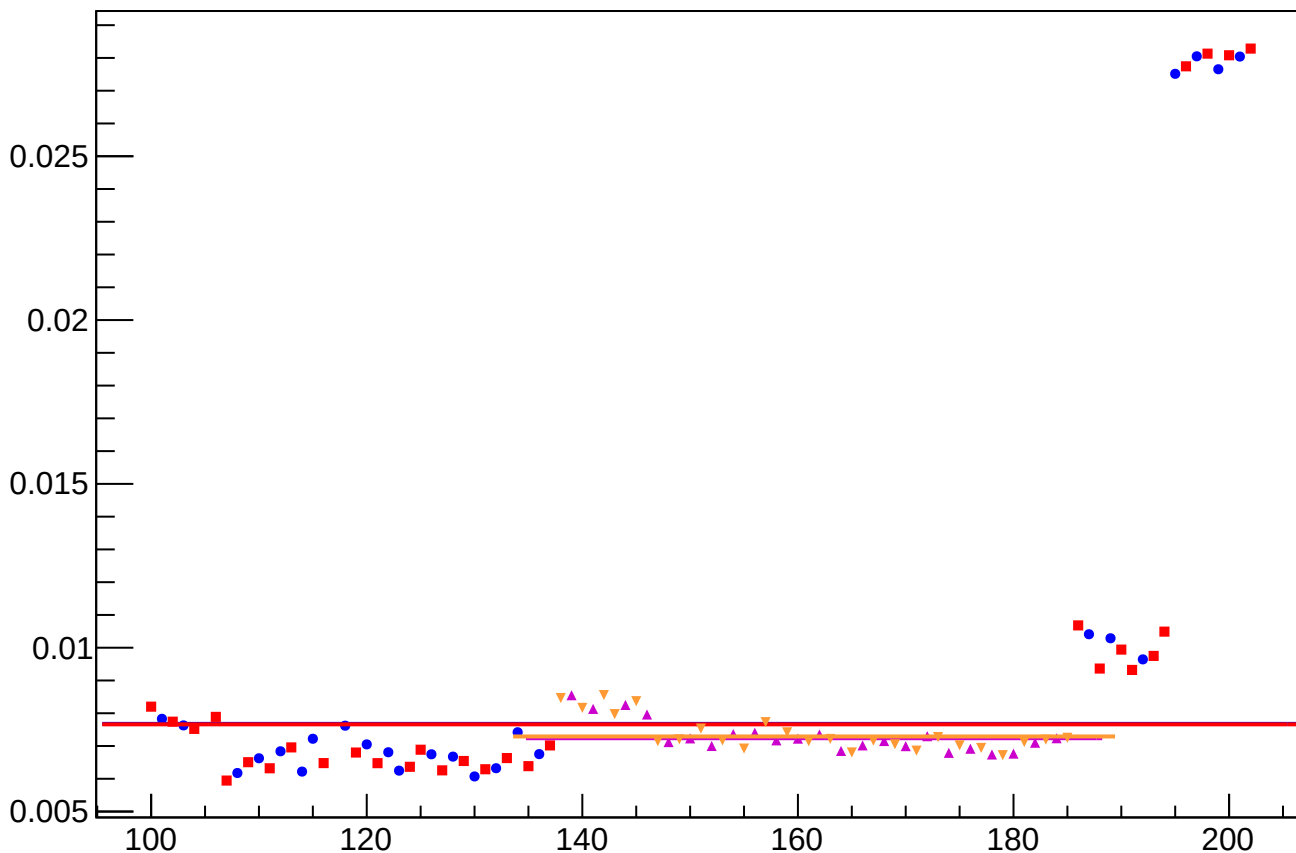
Right: 1.783+/-0.000 χ^2/NDF : 179999346876.8/52

In: 2.314+/-0.000 χ^2/NDF : 183697610100.9/46

Out: 2.226+/-0.000 χ^2/NDF : 216799428364.3/53

All: 2.268+/-0.000 χ^2/NDF : 402404296566.5

yield_bpm0l06X_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 3770732.1/23

Left Out: 0.007+/-0.000 χ^2/NDF :140788.4/24

Right Out: 0.008+/-0.000 χ^2/NDF : 3821507.4/28

Left In: 0.007+/-0.000 χ^2/NDF :125233.2/22

Left: 0.007+/-0.000 χ^2/NDF : 266945.6/47

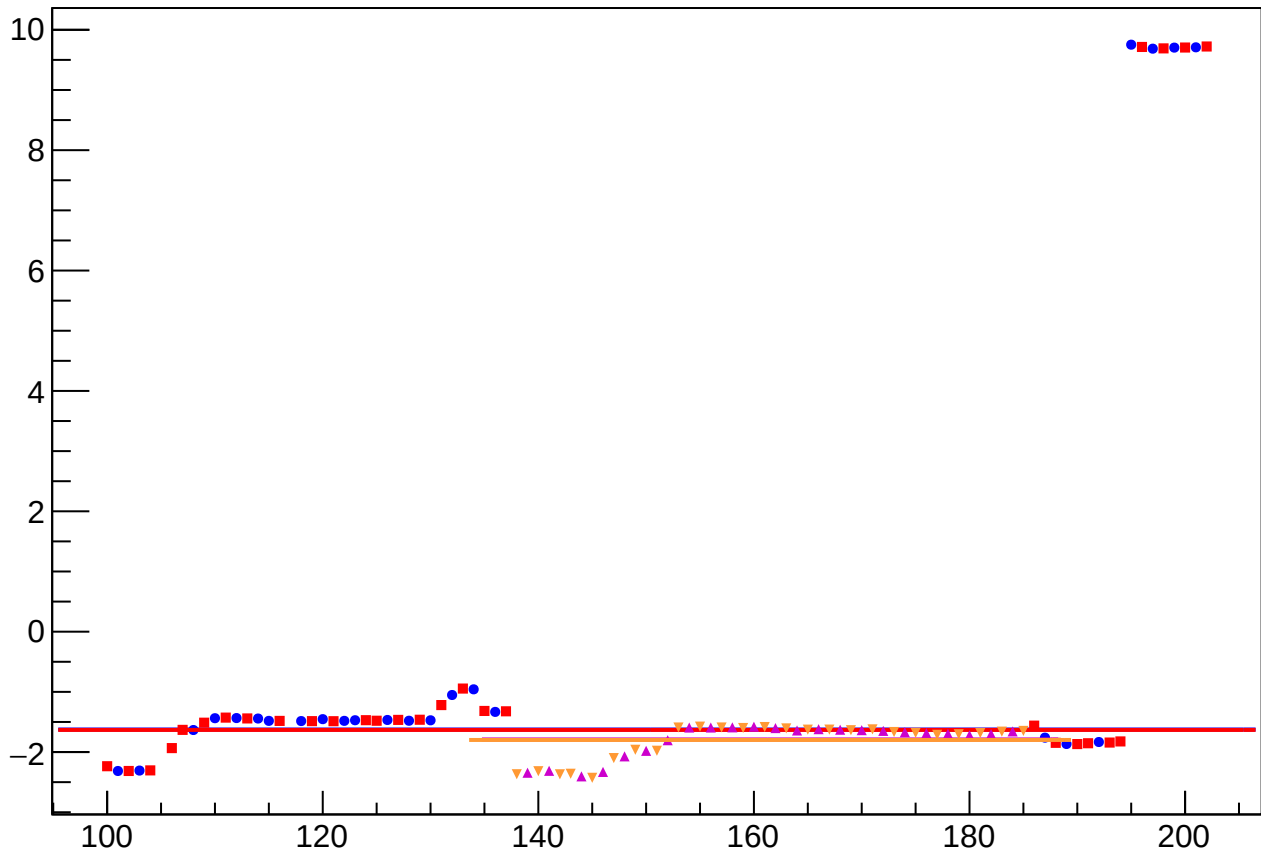
Right: 0.008+/-0.000 χ^2/NDF : 7592272.7/52

In: 0.007+/-0.000 χ^2/NDF :3935837.4/46

Out: 0.007+/-0.000 χ^2/NDF :3995076.1/53

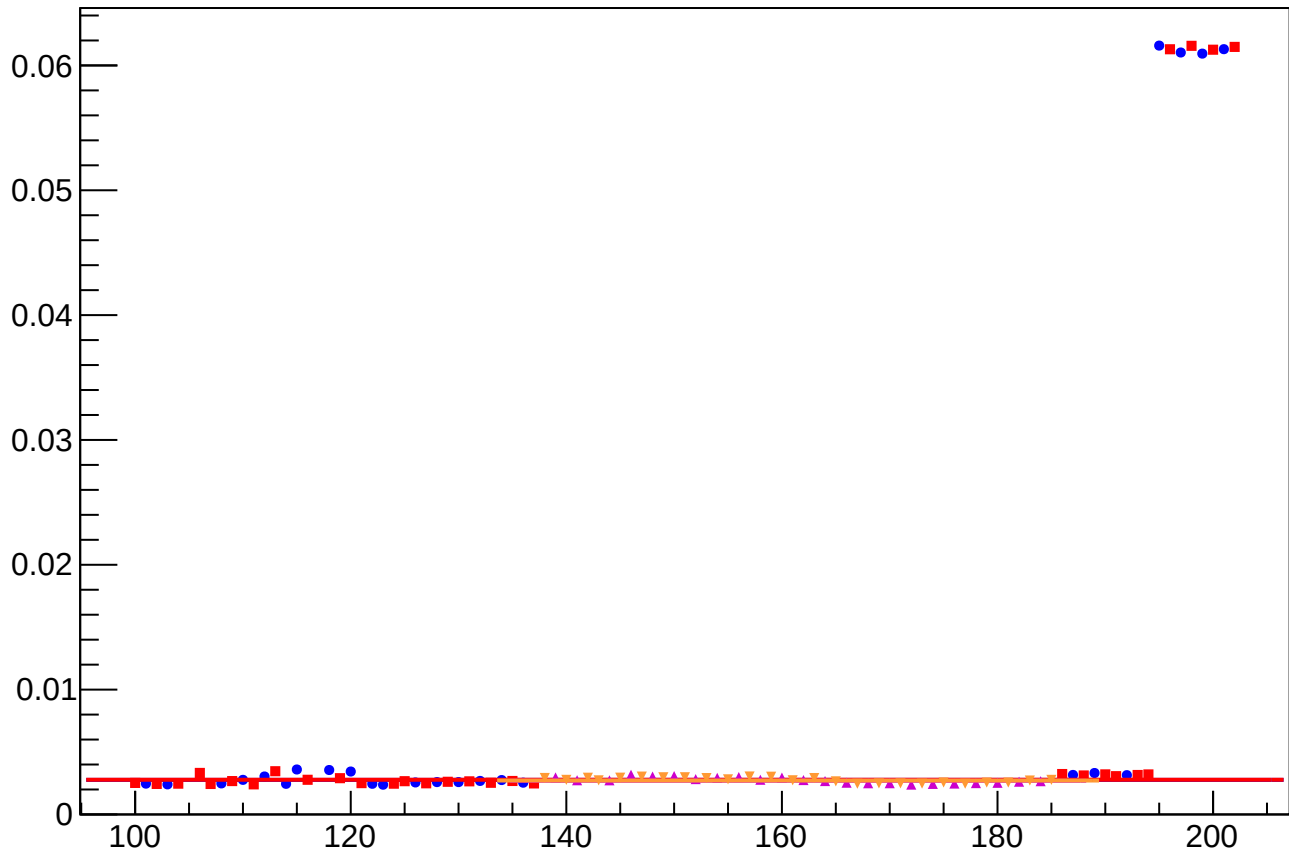
All: 0.007+/-0.000 χ^2/NDF : 7931895.1/100

yield_bpm0l06Y_mean vs Slug, Sign Corrected



Right In: -1.625+/-0.000	χ^2/NDF : 256537686058.6/23	Left: -1.795+/-0.000	χ^2/NDF : 345099435201.4/47
Left Out: -1.799+/-0.000	χ^2/NDF : 185362087438.8/24	Right: -1.629+/-0.000	χ^2/NDF : 515739307370.8/52
Right Out: -1.632+/-0.000	χ^2/NDF : 259175631474.1/28	In: -1.738+/-0.000	χ^2/NDF : 435573245104.9/46
Left In: -1.790+/-0.000	χ^2/NDF : 159648935510.8/22	Out: -1.740+/-0.000	χ^2/NDF : 467748769532.7/53
		All: -1.739+/-0.000	χ^2/NDF : 903327131513.4

yield_bpm0l06Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 6047186.7/23

Left Out: 0.003+/-0.000 χ^2/NDF :199695.2/24

Right Out: 0.003+/-0.000 χ^2/NDF : 5623670.1/28

Left In: 0.003+/-0.000 χ^2/NDF :220327.9/22

Left: 0.003+/-0.000 χ^2/NDF : 420716.9/47

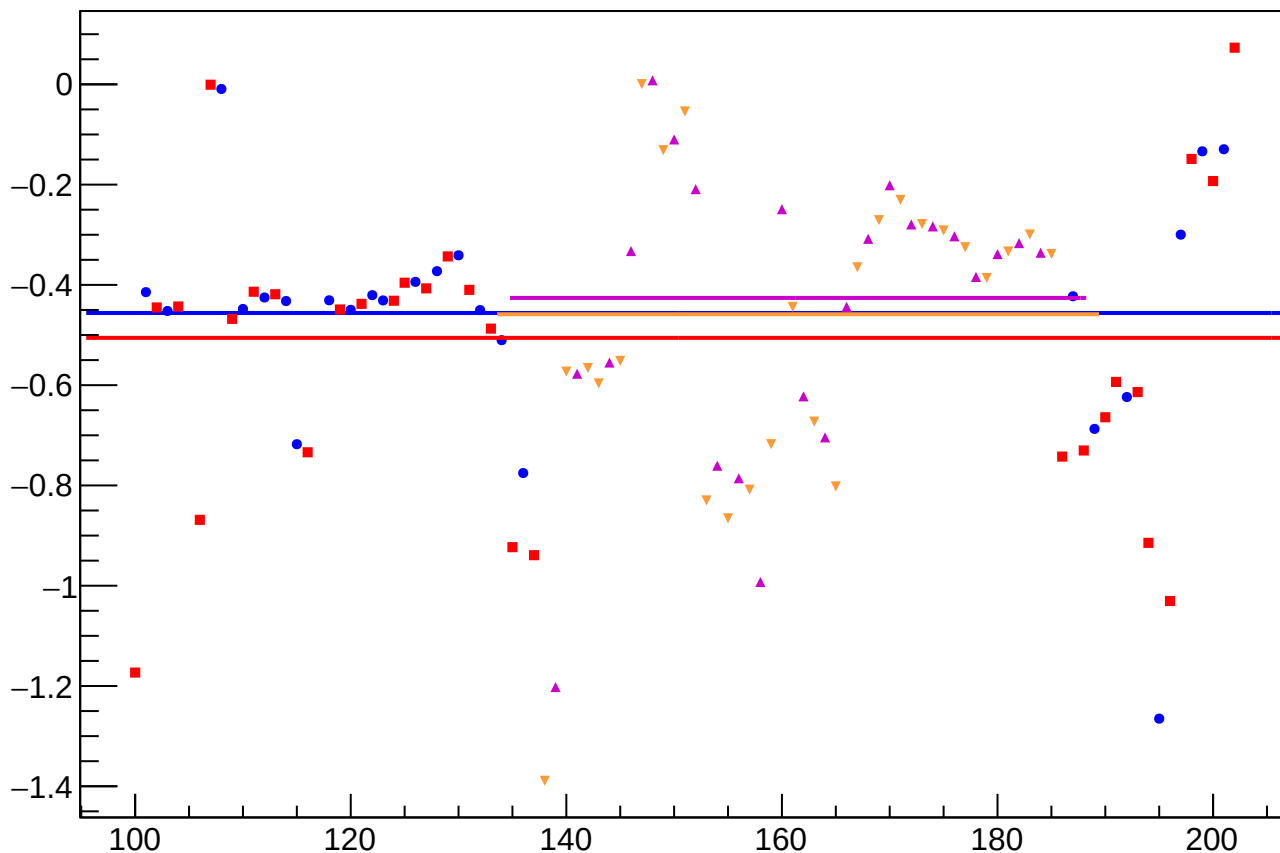
Right: 0.003+/-0.000 χ^2/NDF : 11671023.7/52

In: 0.003+/-0.000 χ^2/NDF :6273874.6/46

Out: 0.003+/-0.000 χ^2/NDF :5829666.3/53

All: 0.003+/-0.000 χ^2/NDF : 12104666.6/100

yield_bpm0l07X_mean vs Slug, Sign Corrected



Right In: -0.456+/-0.000

χ^2/NDF : 4103422245.9/23

Left: -0.443+/-0.000

χ^2/NDF : 18401926676.9/47

Left Out: -0.459+/-0.000

χ^2/NDF : 9916462814.9/24

Right: -0.483+/-0.000

χ^2/NDF : 9564736457.2/52

Right Out: -0.506+/-0.000

χ^2/NDF : 5374077507.1/28

In: -0.437+/-0.000

χ^2/NDF : 12564833308.9/46

Out: -0.477+/-0.000

χ^2/NDF : 15394614097.9/53

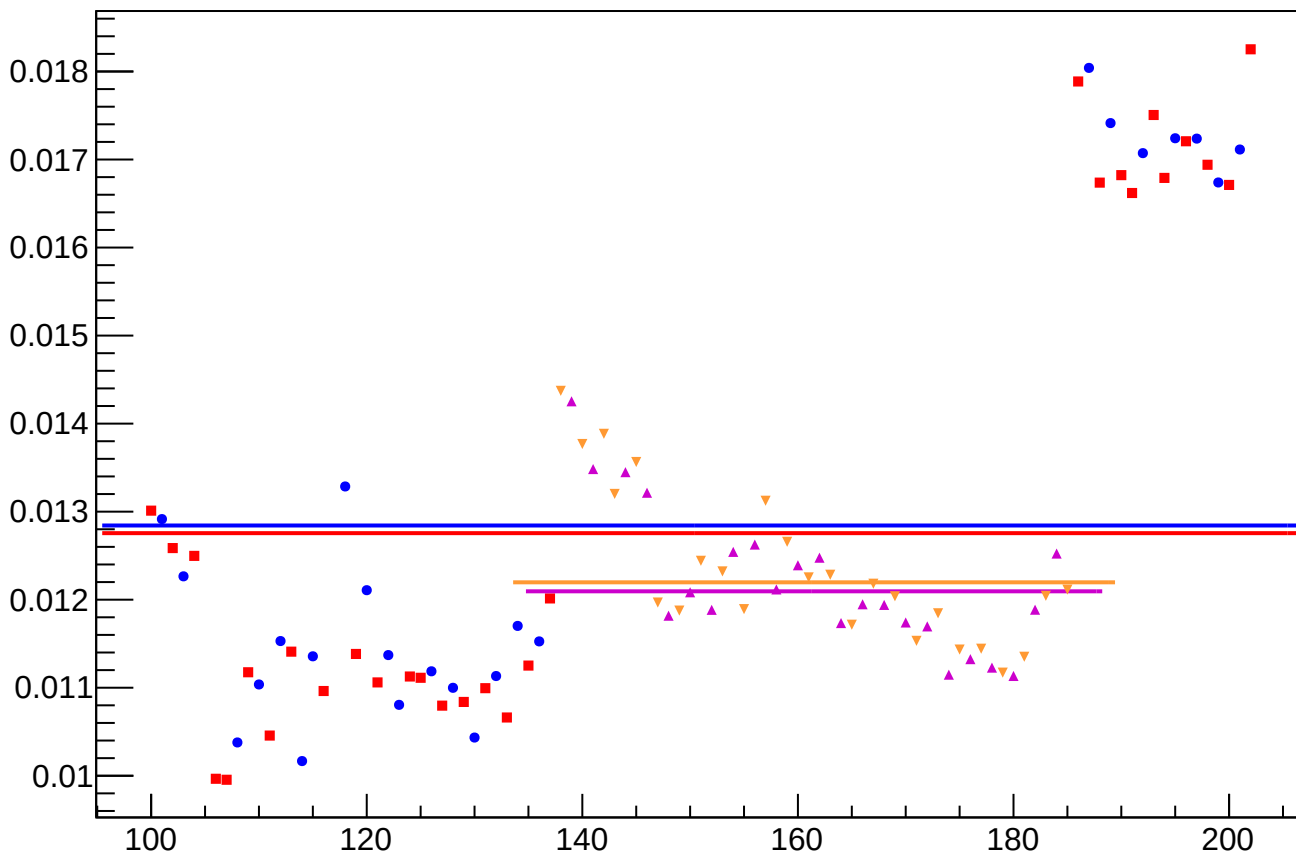
Left In: -0.426+/-0.000

χ^2/NDF : 8424222576.0/22

All: -0.458+/-0.000

χ^2/NDF : 28111073110.6/...

yield_bpm0l07X_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 836747.1/23

Left Out: 0.012+/-0.000 χ^2/NDF :141850.9/24

Right Out: 0.013+/-0.000 χ^2/NDF : 1174445.4/28

Left In: 0.012+/-0.000 χ^2/NDF :127308.3/22

Left: 0.012+/-0.000 χ^2/NDF : 270367.5/47

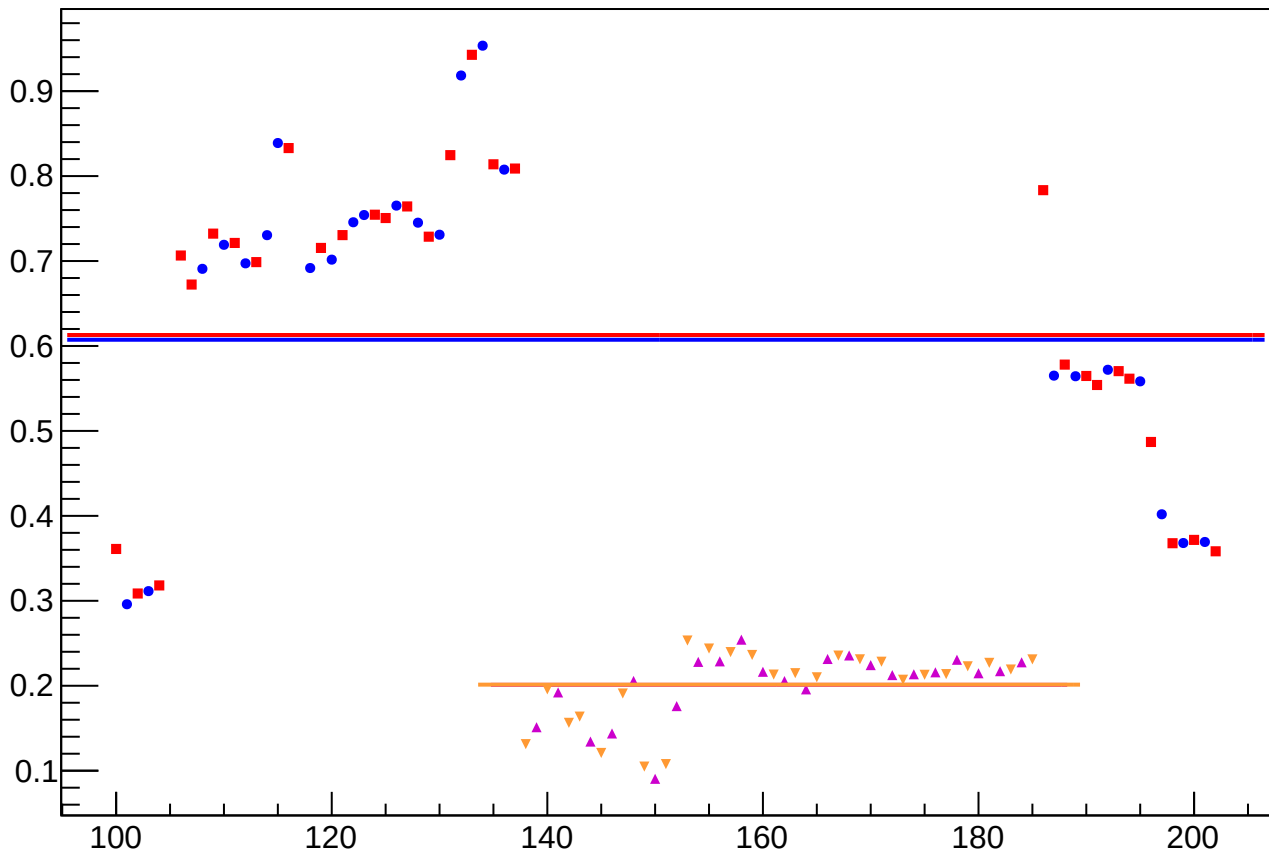
Right: 0.013+/-0.000 χ^2/NDF : 2011727.3/52

In: 0.012+/-0.000 χ^2/NDF :1010235.6/46

Out: 0.012+/-0.000 χ^2/NDF :1345526.5/53

All: 0.012+/-0.000 χ^2/NDF : 2356257.1/100

yield_bpm0l07Y_mean vs Slug, Sign Corrected



Right In: 0.607 $\pm$ 0.000

χ^2 /NDF: 57674037034.9/23

Left: 0.201 $\pm$ 0.000

χ^2 /NDF: 12762673178.0/47

Left Out: 0.201 $\pm$ 0.000

χ^2 /NDF: 7090760823.7/24

Right: 0.610 $\pm$ 0.000

χ^2 /NDF: 116469522107.3/52

Right Out: 0.613 $\pm$ 0.000

χ^2 /NDF: 58769367089.4/28

In: 0.319 $\pm$ 0.000

χ^2 /NDF: 246303765259.9/46

Out: 0.329 $\pm$ 0.000

χ^2 /NDF: 277934508937.7/53

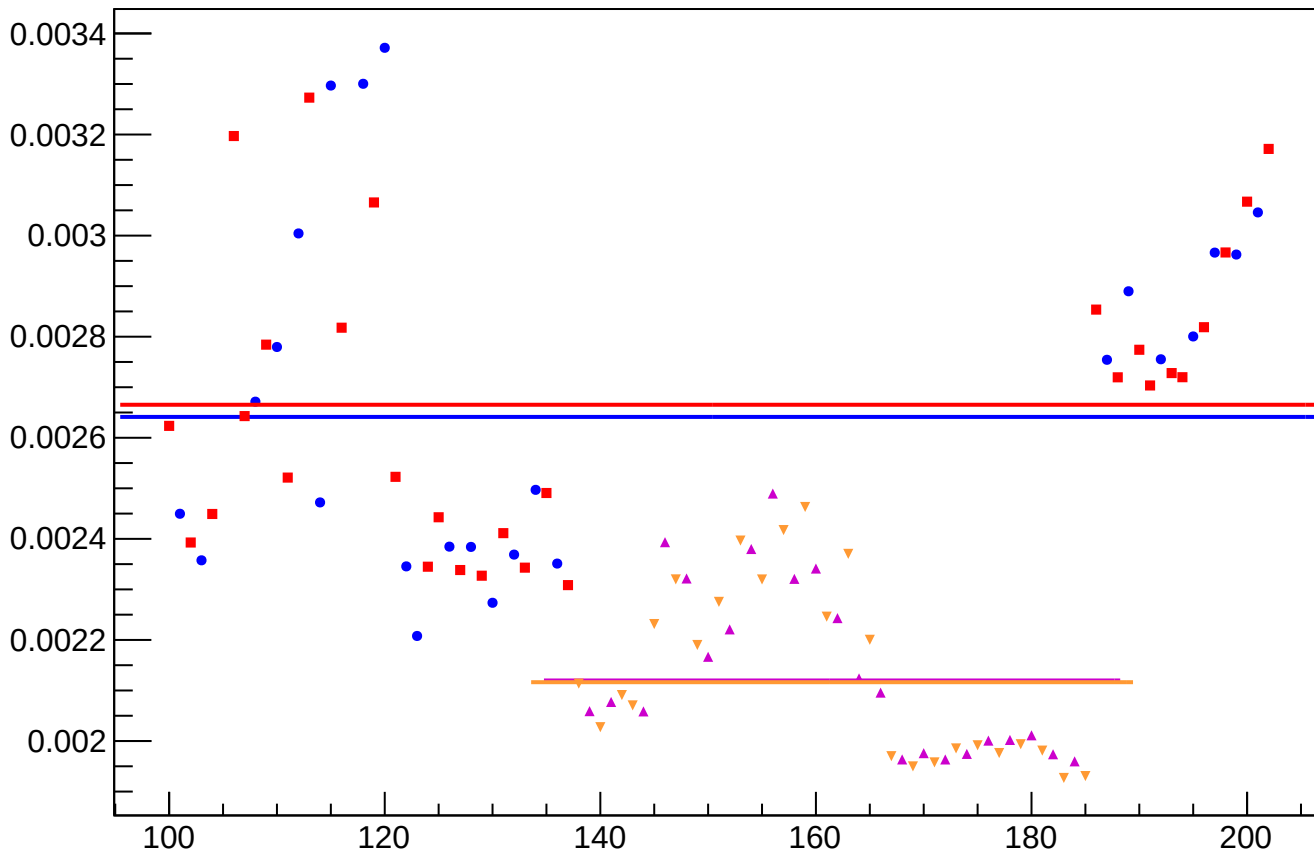
Left In: 0.201 $\pm$ 0.000

χ^2 /NDF: 5671770181.2/22

All: 0.324 $\pm$ 0.000

χ^2 /NDF: 524484247424.2

yield_bpm0l07Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 290603.0/23

Left Out: 0.002+/-0.000 χ^2/NDF :224498.3/24

Right Out: 0.003+/-0.000 χ^2/NDF : 248422.5/28

Left In: 0.002+/-0.000 χ^2/NDF :189228.6/22

Left: 0.002+/-0.000 χ^2/NDF : 413772.2/47

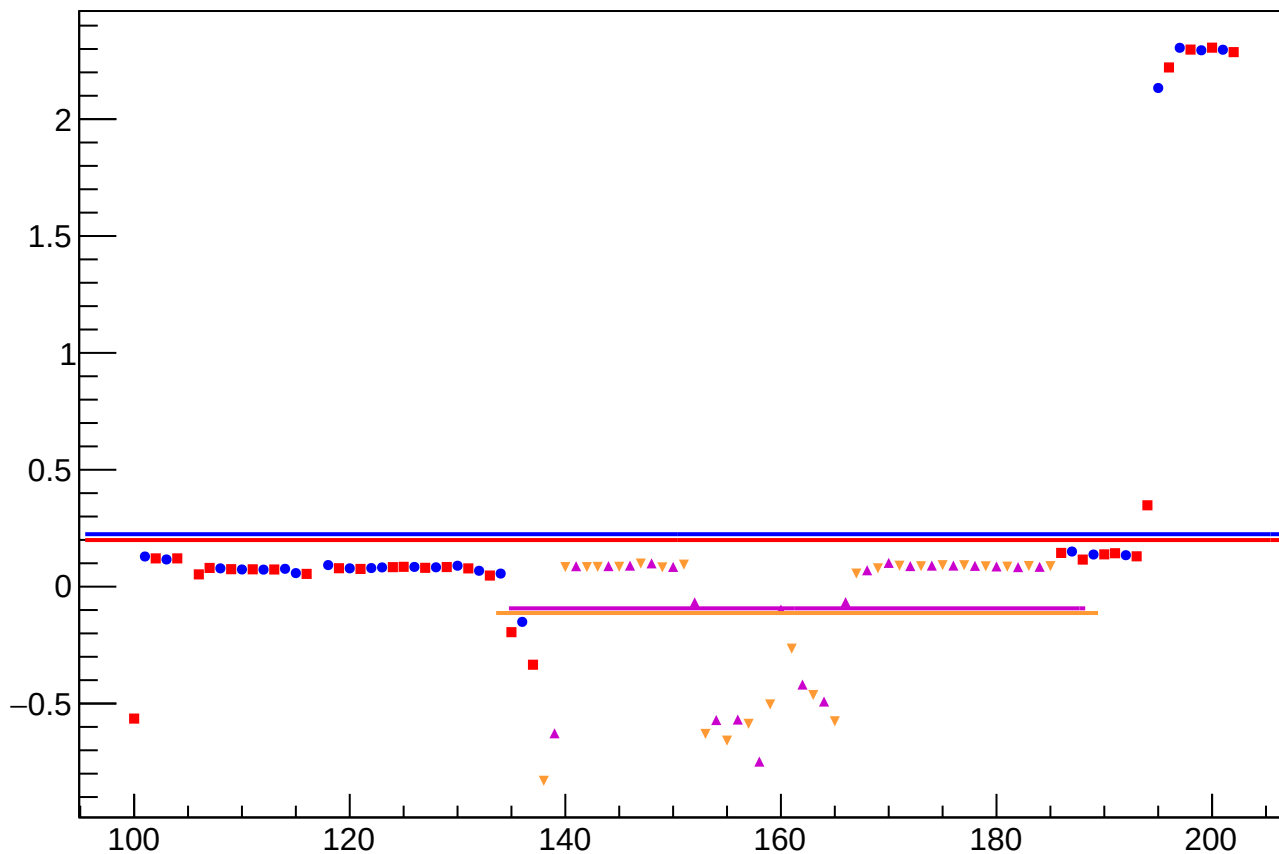
Right: 0.003+/-0.000 χ^2/NDF : 539996.1/52

In: 0.002+/-0.000 χ^2/NDF :1082666.0/46

Out: 0.002+/-0.000 χ^2/NDF :1227334.6/53

All: 0.002+/-0.000 χ^2/NDF : 2311205.3/100

yield_bpm0l08X_mean vs Slug, Sign Corrected



Right In: 0.224+/-0.000

χ^2/NDF : 26750577224.9/23

Left: -0.103+/-0.000

χ^2/NDF : 24747894543.0/47

Left Out: -0.113+/-0.000

χ^2/NDF : 13667354077.1/24

Right: 0.211+/-0.000

χ^2/NDF : 54654333055.8/52

Right Out: 0.199+/-0.000

χ^2/NDF : 27876418428.4/28

In: 0.023+/-0.000

χ^2/NDF : 42870792771.8/46

Left In: -0.093+/-0.000

χ^2/NDF : 11051944893.7/22

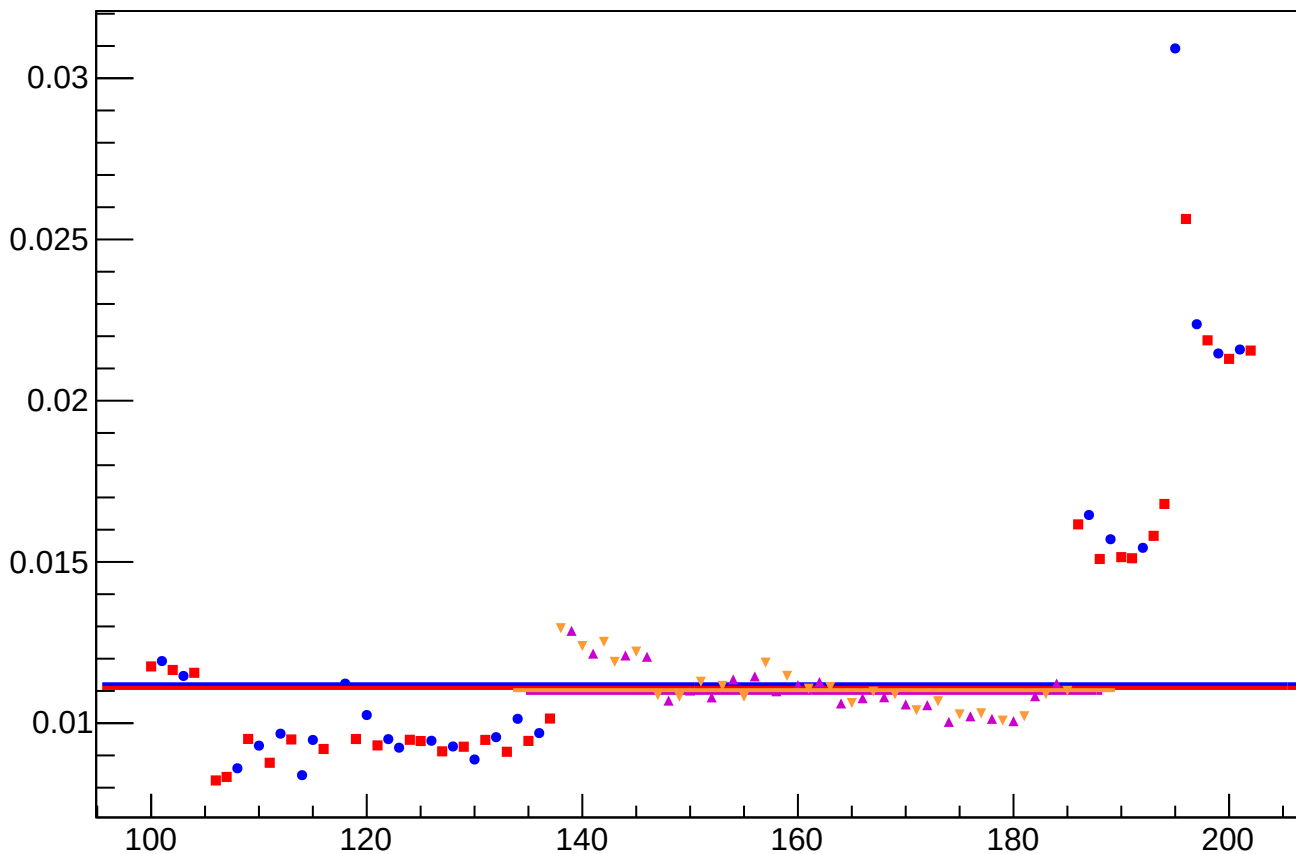
Out: 0.012+/-0.000

χ^2/NDF : 47180688745.2/53

All: 0.017+/-0.000

χ^2/NDF : 90064362758.5/100

yield_bpm0l08X_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 2413978.8/23

Left Out: 0.011+/-0.000 χ^2/NDF :141501.7/24

Right Out: 0.011+/-0.000 χ^2/NDF : 2625473.0/28

Left In: 0.011+/-0.000 χ^2/NDF :128914.2/22

Left: 0.011+/-0.000 χ^2/NDF : 271400.1/47

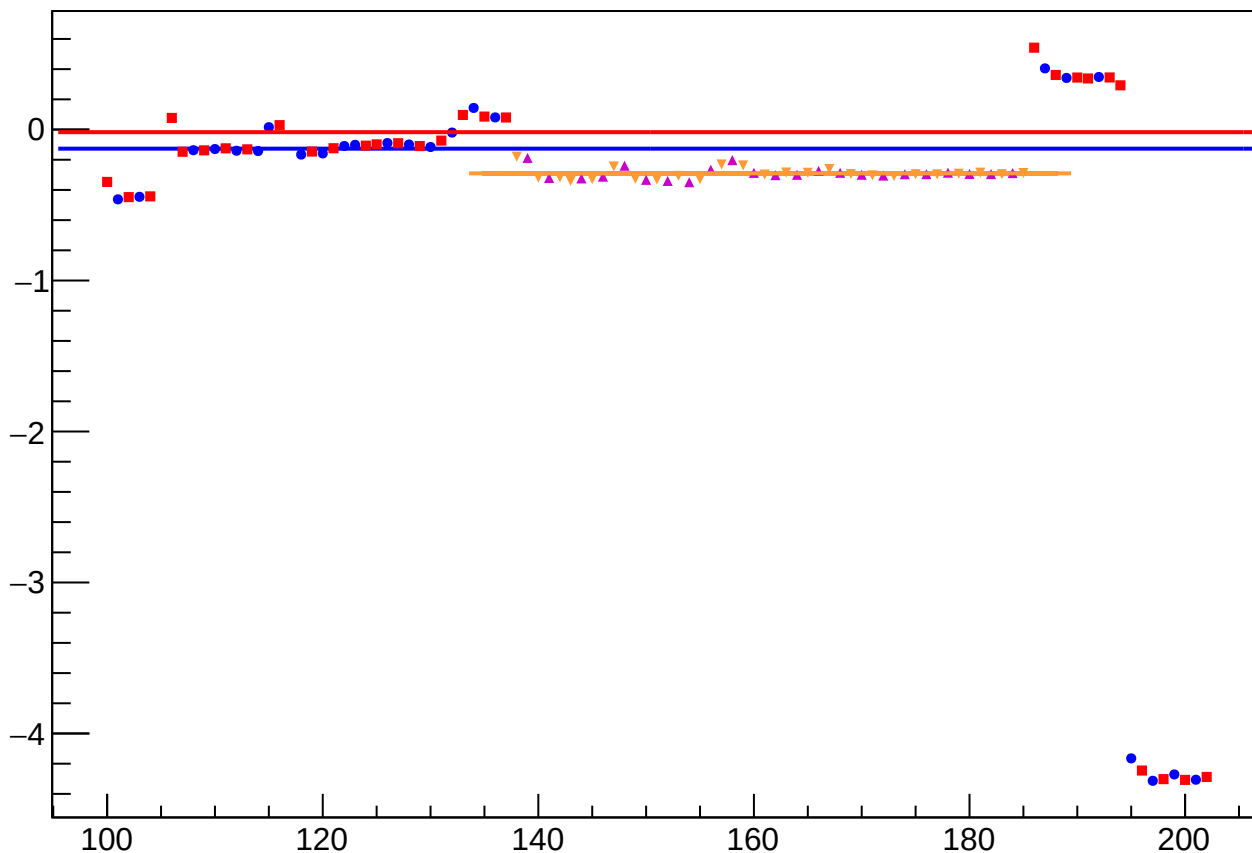
Right: 0.011+/-0.000 χ^2/NDF : 5040592.0/52

In: 0.011+/-0.000 χ^2/NDF :2550020.4/46

Out: 0.011+/-0.000 χ^2/NDF :2767510.5/53

All: 0.011+/-0.000 χ^2/NDF : 5317575.1/100

yield_bpm0l08Y_mean vs Slug, Sign Corrected



Right In: -0.127+/-0.000 χ^2/NDF : 180931405329.9/23

Left Out: -0.290+/-0.000 χ^2/NDF : 2877519093.0/24

Right Out: -0.017+/-0.000 χ^2/NDF : 202374777928.2/28

Left In: -0.291+/-0.000 χ^2/NDF : 3125402243.3/22

Left: -0.291+/-0.000 χ^2/NDF : 6003615293.4/47

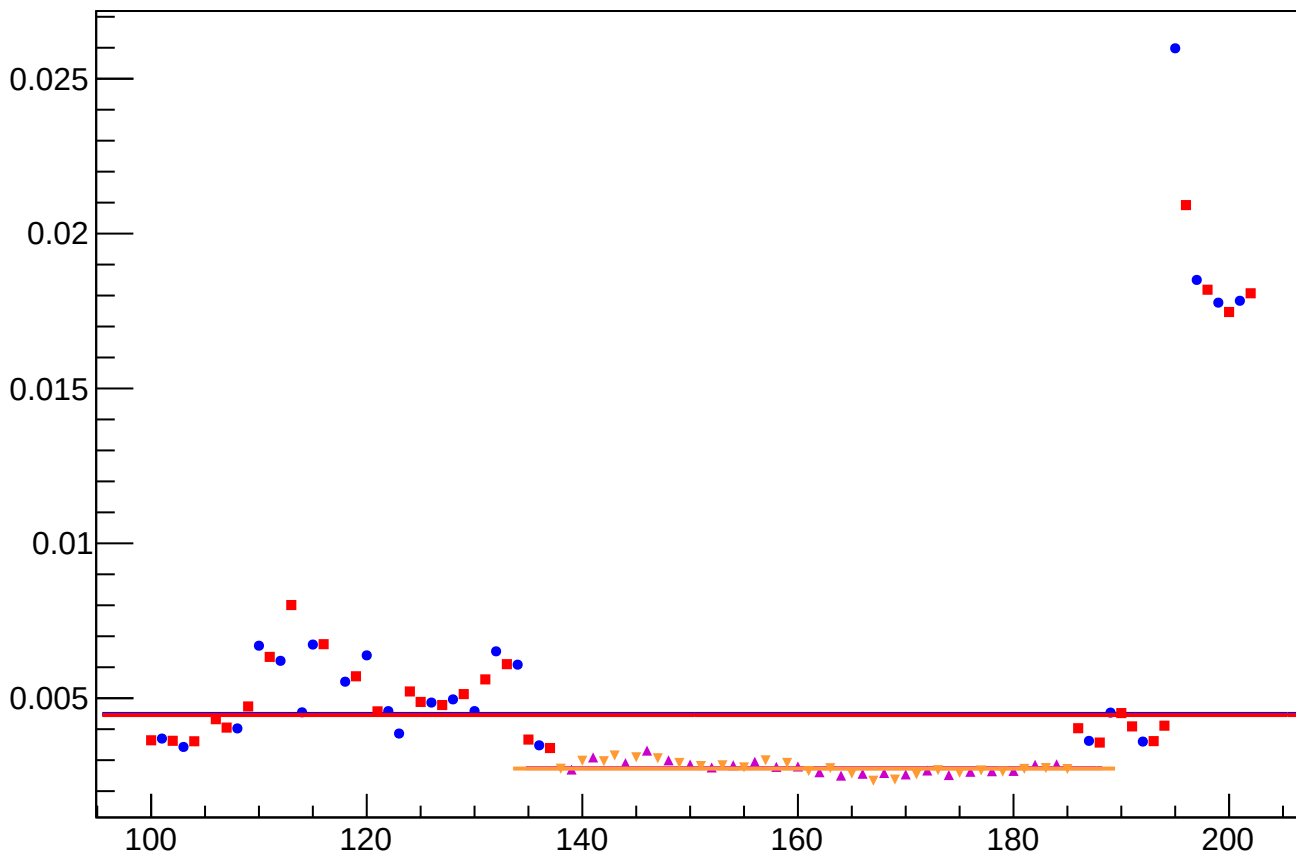
Right: -0.066+/-0.000 χ^2/NDF : 386088984588.7/52

In: -0.265+/-0.000 χ^2/NDF : 193577319384.7/46

Out: -0.241+/-0.000 χ^2/NDF : 237251222364.9/53

All: -0.252+/-0.000 χ^2/NDF : 431628022365.5

yield_bpm0l08Y_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 4531833.2/23

Left Out: 0.003+/-0.000 χ^2/NDF :206527.1/24

Right Out: 0.004+/-0.000 χ^2/NDF : 4204559.9/28

Left In: 0.003+/-0.000 χ^2/NDF :147778.8/22

Left: 0.003+/-0.000 χ^2/NDF : 354733.7/47

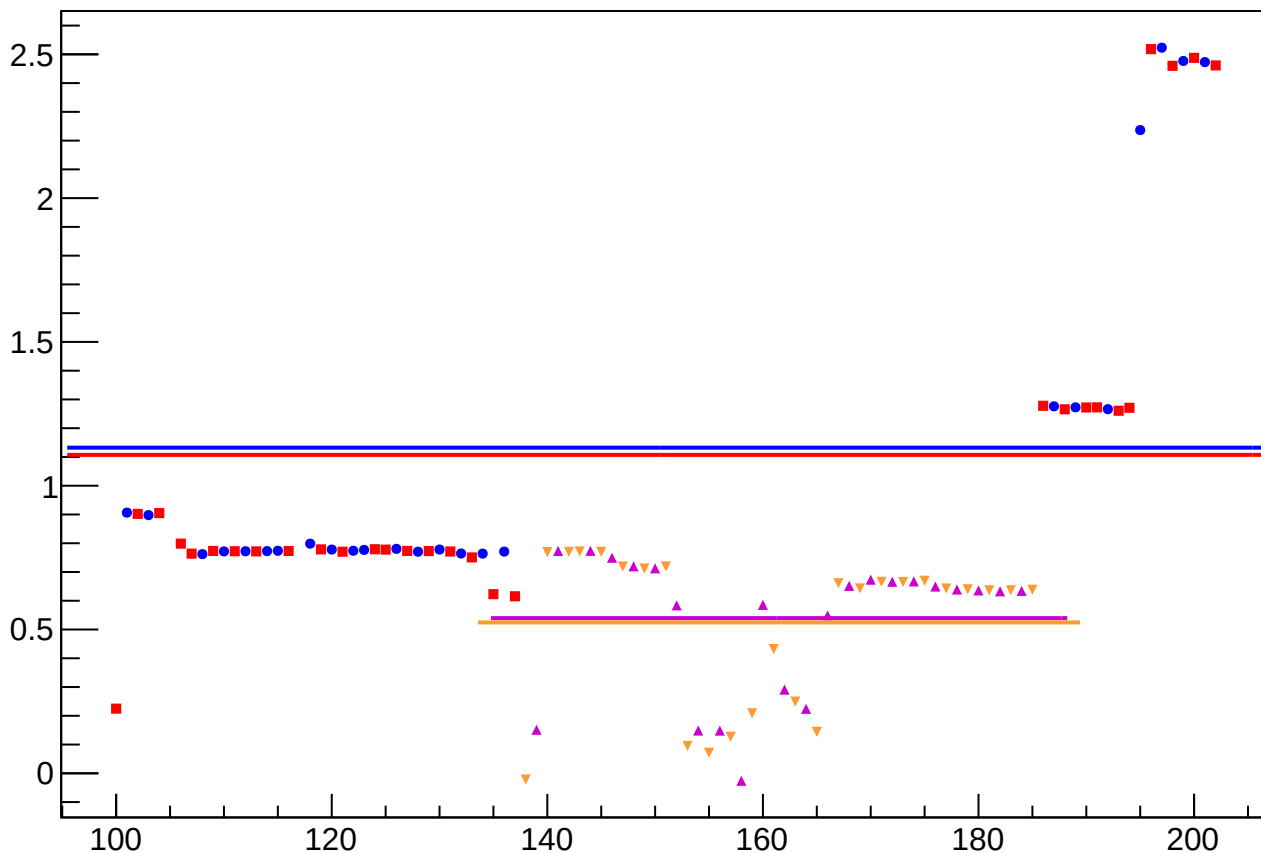
Right: 0.004+/-0.000 χ^2/NDF : 8736993.2/52

In: 0.003+/-0.000 χ^2/NDF :6837456.6/46

Out: 0.003+/-0.000 χ^2/NDF :6977839.1/53

All: 0.003+/-0.000 χ^2/NDF : 13816467.3/100

yield_bpm0l09X_mean vs Slug, Sign Corrected



Right In: 1.132 $\pm$ 0.000

χ^2 /NDF: 30030414248.9/23

Left: 0.532 $\pm$ 0.000

χ^2 /NDF: 17500739852.2/47

Left Out: 0.525 $\pm$ 0.000

χ^2 /NDF: 9623503169.9/24

Right: 1.119 $\pm$ 0.000

χ^2 /NDF: 63571904158.6/52

Right Out: 1.107 $\pm$ 0.000

χ^2 /NDF: 33516202990.1/28

In: 0.738 $\pm$ 0.000

χ^2 /NDF: 55019412299.0/46

Out: 0.742 $\pm$ 0.000

χ^2 /NDF: 62451880165.4/53

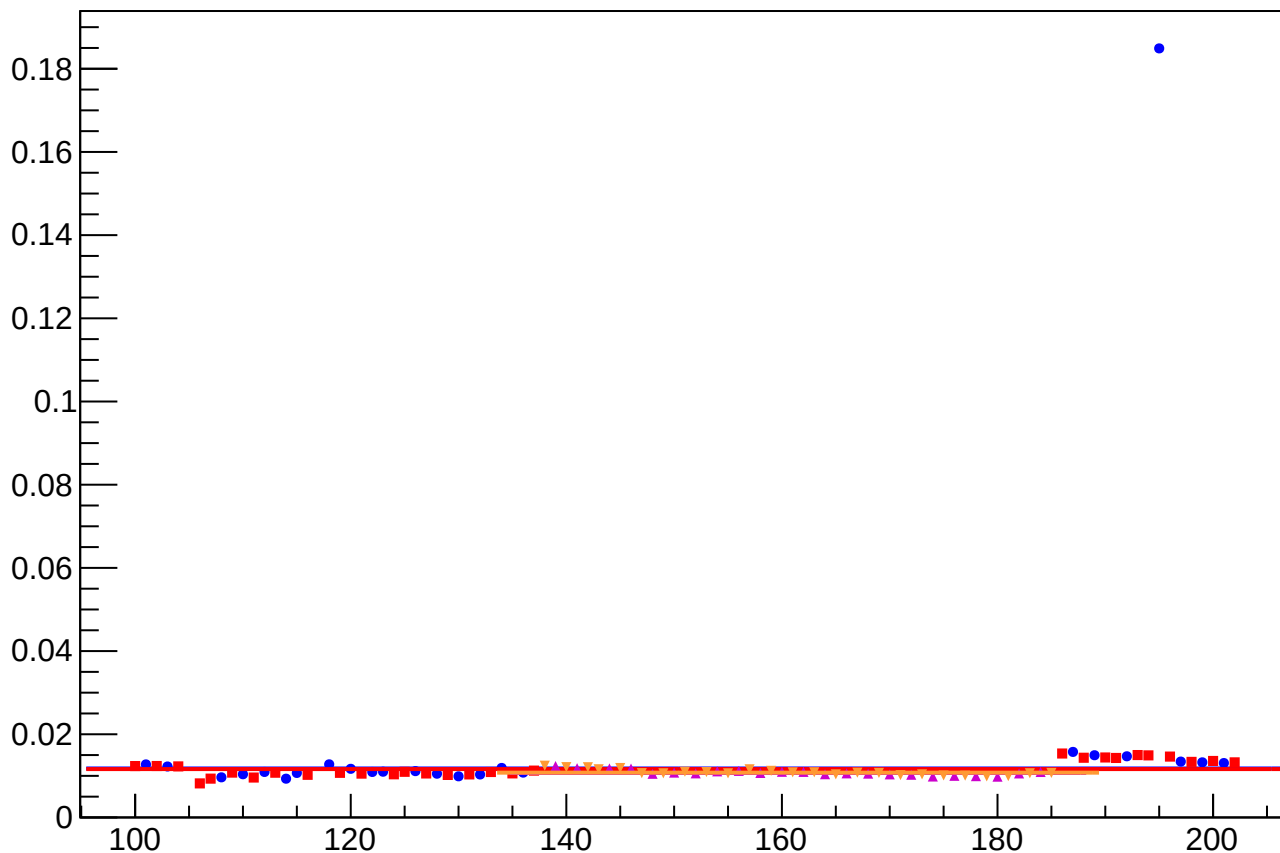
Left In: 0.540 $\pm$ 0.000

χ^2 /NDF: 7860539135.5/22

All: 0.740 $\pm$ 0.000

χ^2 /NDF: 117473484142.2

yield_bpm0l09X_rms vs Slug, Sign Corrected



Right In: 0.012+/-0.000 χ^2/NDF : 1830293.5/23

Left Out: 0.011+/-0.000 χ^2/NDF :131630.9/24

Right Out: 0.012+/-0.000 χ^2/NDF : 670219.5/28

Left In: 0.011+/-0.000 χ^2/NDF :119273.2/22

Left: 0.011+/-0.000 χ^2/NDF : 251802.6/47

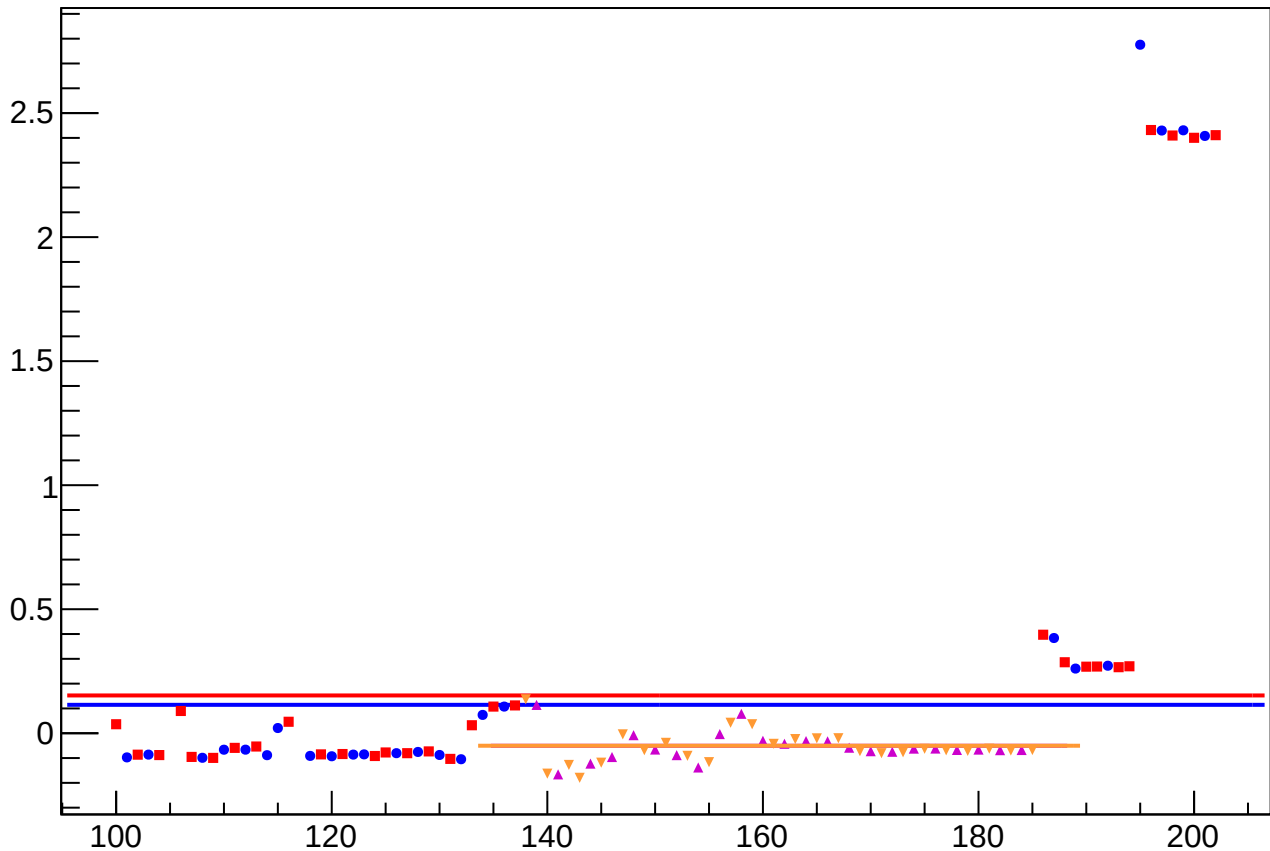
Right: 0.012+/-0.000 χ^2/NDF : 2502116.2/52

In: 0.011+/-0.000 χ^2/NDF :2062949.4/46

Out: 0.011+/-0.000 χ^2/NDF :885993.6/53

All: 0.011+/-0.000 χ^2/NDF : 2949278.8/100

yield_bpm0l09Y_mean vs Slug, Sign Corrected



Right In: 0.115 $\pm$ 0.000 χ^2/NDF : 84318025997.4/23

Left Out: -0.050 $\pm$ 0.000 χ^2/NDF : 7271496478.6/24

Right Out: 0.152 $\pm$ 0.000 χ^2/NDF : 88429590127.1/28

Left In: -0.051 $\pm$ 0.000 χ^2/NDF : 6128769990.8/22

Left: -0.050 $\pm$ 0.000 χ^2/NDF : 13400329490.2/47

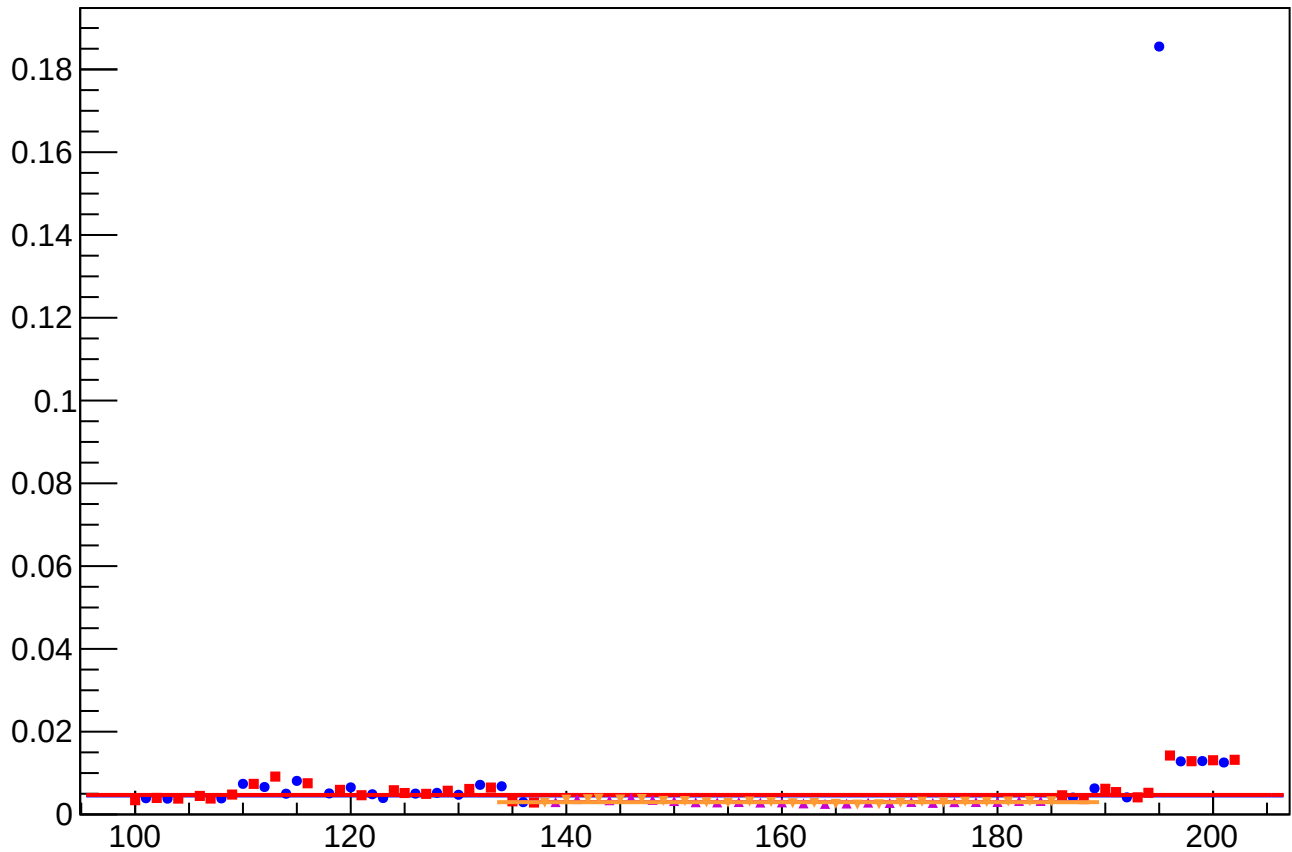
Right: 0.135 $\pm$ 0.000 χ^2/NDF : 173047023134.4/52

In: -0.021 $\pm$ 0.000 χ^2/NDF : 99134288812.0/46

Out: -0.012 $\pm$ 0.000 χ^2/NDF : 110845375856.5/53

All: -0.016 $\pm$ 0.000 χ^2/NDF : 210076263075.0

yield_bpm0l09Y_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 4481922.6/23

Left Out: 0.003+/-0.000 χ^2/NDF :499039.1/24

Right Out: 0.005+/-0.000 χ^2/NDF : 3279195.1/28

Left In: 0.003+/-0.000 χ^2/NDF :329068.1/22

Left: 0.003+/-0.000 χ^2/NDF : 831077.6/47

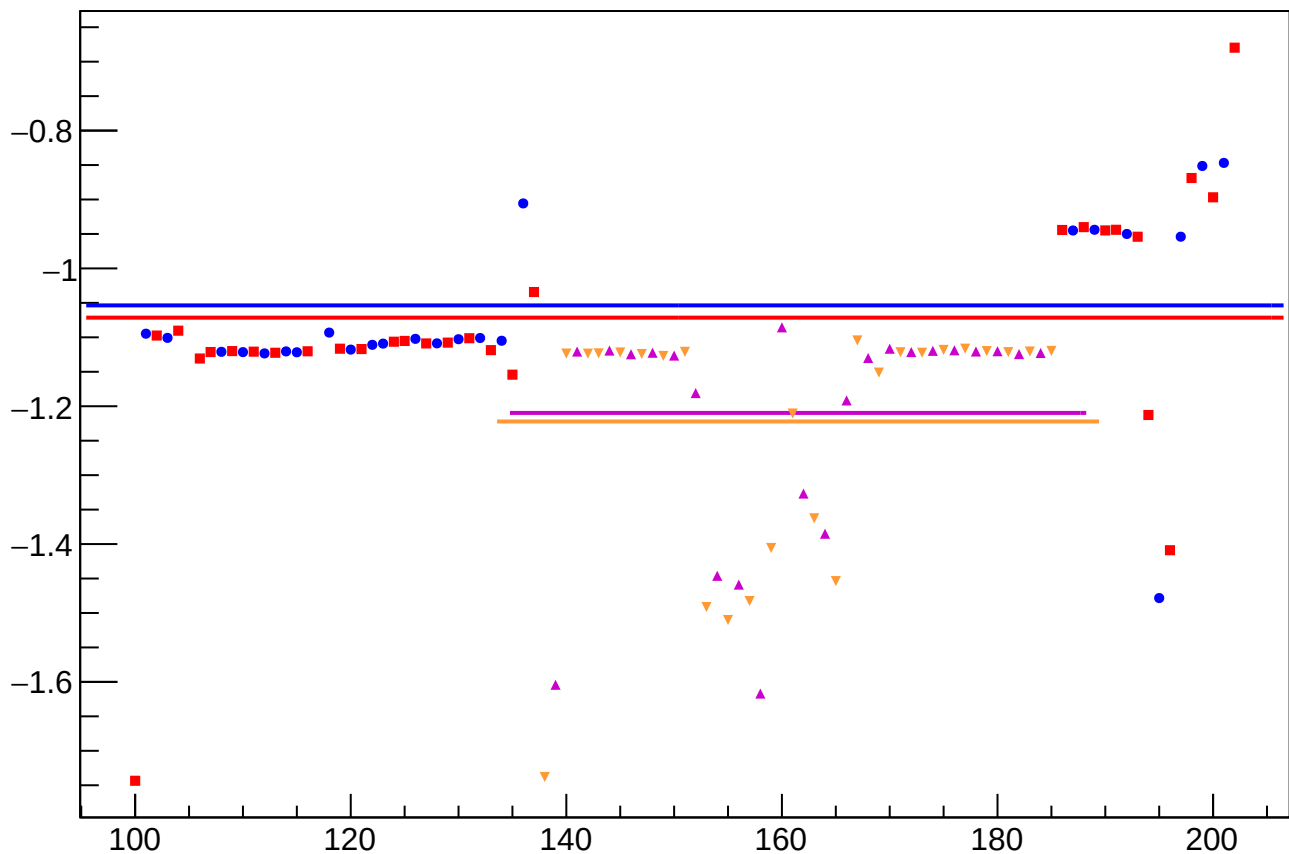
Right: 0.005+/-0.000 χ^2/NDF : 7767757.3/52

In: 0.003+/-0.000 χ^2/NDF :6408328.7/46

Out: 0.003+/-0.000 χ^2/NDF :6034196.3/53

All: 0.003+/-0.000 χ^2/NDF : 12442708.0/100

yield_bpm0l10X_mean vs Slug, Sign Corrected



Right In: -1.054+/-0.000 χ^2/NDF : 1699038152.4/23

Left Out: -1.222+/-0.000 χ^2/NDF : 5279548861.3/24

Right Out: -1.071+/-0.000 χ^2/NDF : 2012240149.3/28

Left In: -1.210+/-0.000 χ^2/NDF : 4502367902.8/22

Left: -1.216+/-0.000 χ^2/NDF : 9796254294.5/47

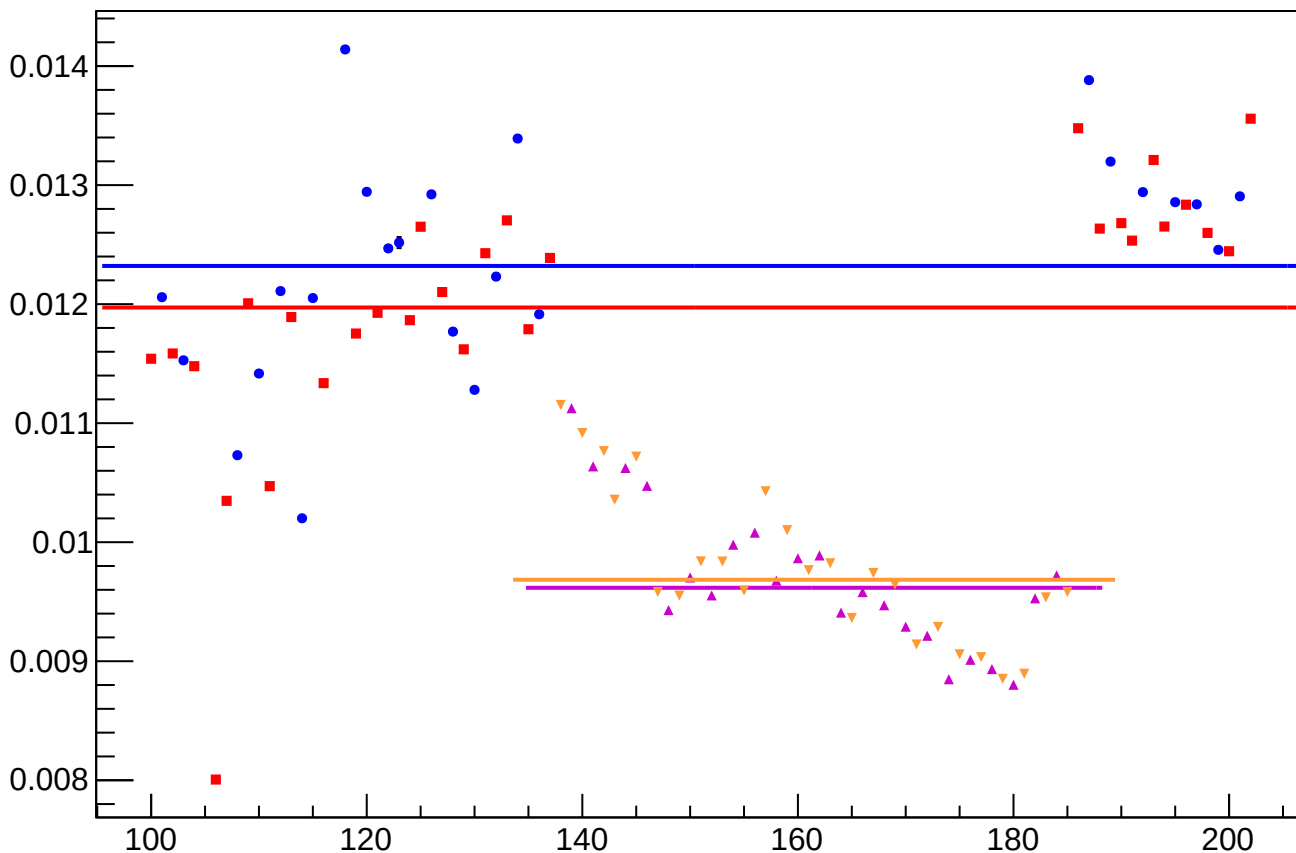
Right: -1.064+/-0.000 χ^2/NDF : 3724060739.5/52

In: -1.165+/-0.000 χ^2/NDF : 7465166935.1/46

Out: -1.173+/-0.000 χ^2/NDF : 8688306521.9/53

All: -1.169+/-0.000 χ^2/NDF : 16162439953.6/100

yield_bpm0l10X_rms vs Slug, Sign Corrected



Right In: 0.012+/-0.000 χ^2/NDF : 89260.0/23

Left Out: 0.010+/-0.000 χ^2/NDF :134863.6/24

Right Out: 0.012+/-0.000 χ^2/NDF : 251862.2/28

Left In: 0.010+/-0.000 χ^2/NDF :119823.1/22

Left: 0.010+/-0.000 χ^2/NDF : 255532.7/47

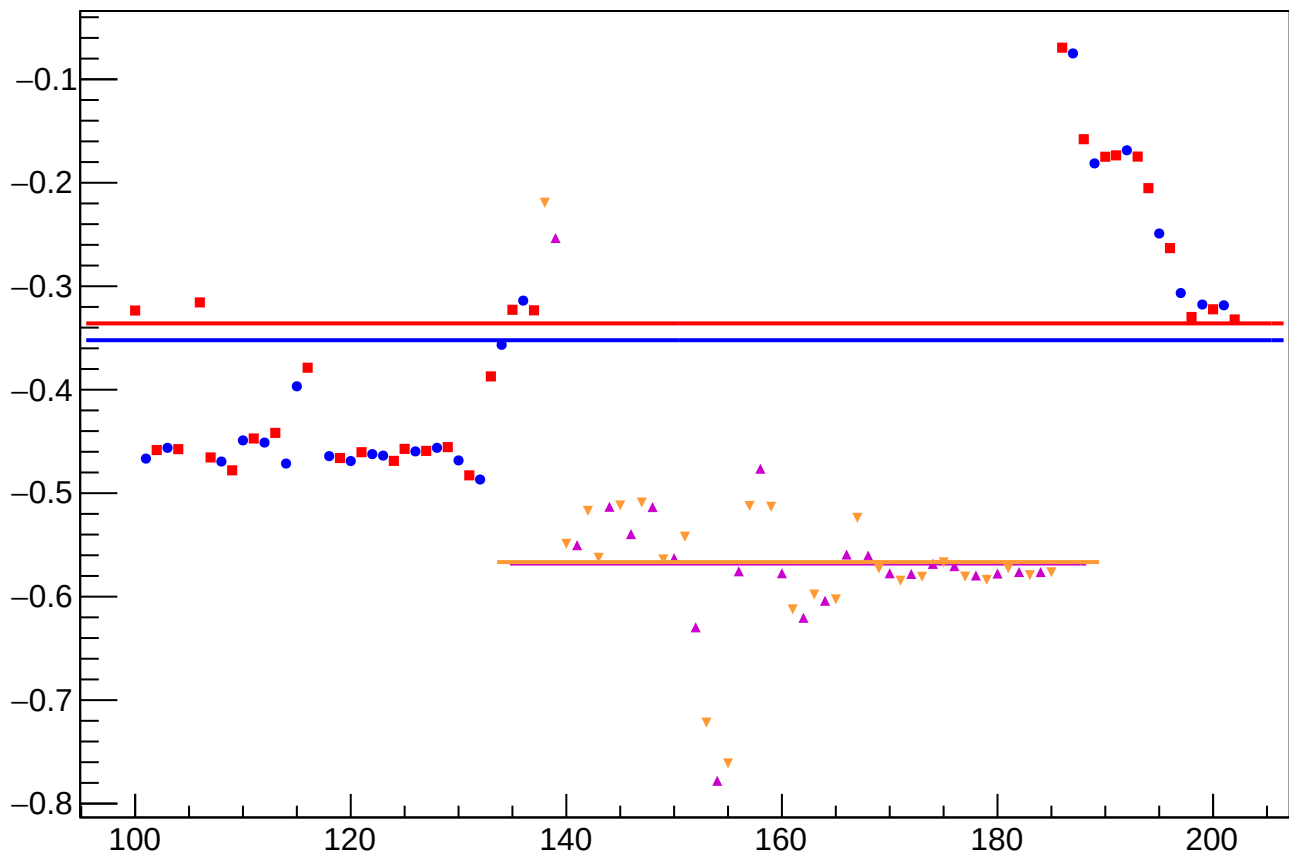
Right: 0.012+/-0.000 χ^2/NDF : 350987.4/52

In: 0.010+/-0.000 χ^2/NDF :968285.8/46

Out: 0.010+/-0.000 χ^2/NDF :1030248.7/53

All: 0.010+/-0.000 χ^2/NDF : 1998875.4/100

yield_bpm0l10Y_mean vs Slug, Sign Corrected



Right In: -0.352 ± 0.000 $\chi^2/\text{NDF}: 7676033404.3/23$

Left Out: -0.567 ± 0.000 $\chi^2/\text{NDF}: 13368458519.3/24$

Right Out: -0.336 ± 0.000 $\chi^2/\text{NDF}: 10334548770.5/28$

Left In: -0.568 ± 0.000 $\chi^2/\text{NDF}: 10458990019.9/22$

Left: -0.567 ± 0.000 $\chi^2/\text{NDF}: 23829000396.4/47$

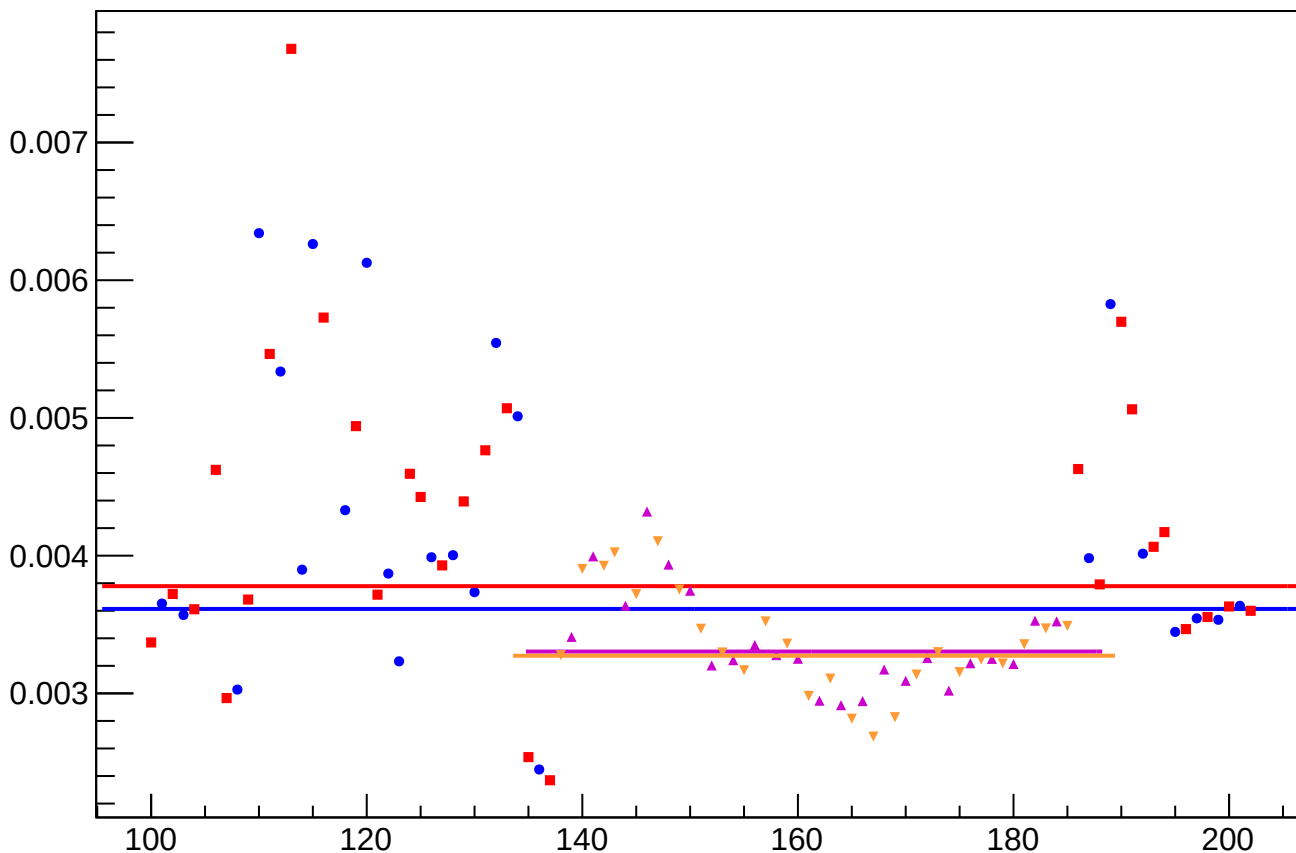
Right: -0.344 ± 0.000 $\chi^2/\text{NDF}: 18115204326.7/52$

In: -0.495 ± 0.000 $\chi^2/\text{NDF}: 41476628035.9/46$

Out: -0.488 ± 0.000 $\chi^2/\text{NDF}: 52785066442.5/53$

All: -0.491 ± 0.000 $\chi^2/\text{NDF}: 94318680657.0/100$

yield_bpm0l10Y_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 992758.5/23

Left Out: 0.003+/-0.000 χ^2/NDF : 394865.4/24

Right Out: 0.004+/-0.000 χ^2/NDF : 1060319.1/28

Left In: 0.003+/-0.000 χ^2/NDF : 286064.1/22

Left: 0.003+/-0.000 χ^2/NDF : 682340.4/47

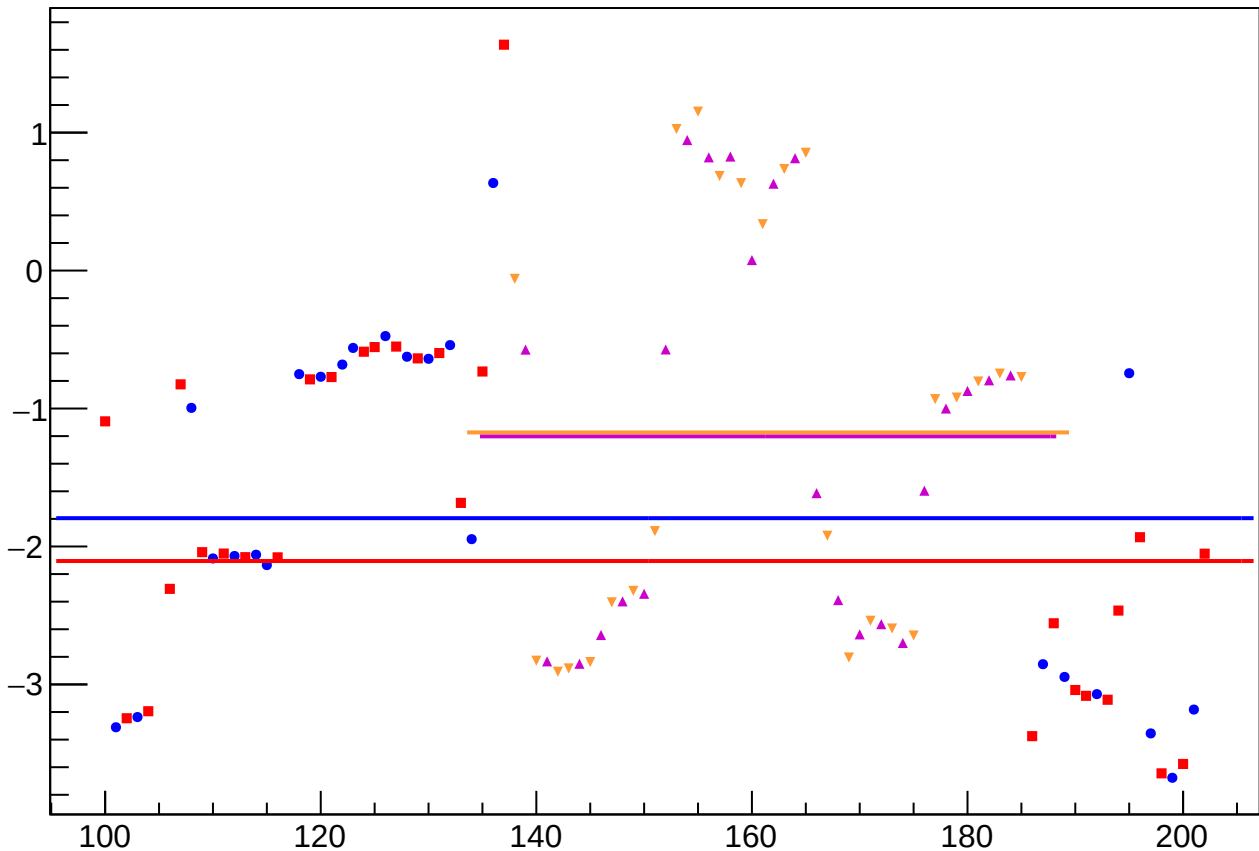
Right: 0.004+/-0.000 χ^2/NDF : 2074726.4/52

In: 0.003+/-0.000 χ^2/NDF : 1374783.4/46

Out: 0.003+/-0.000 χ^2/NDF : 1734023.6/53

All: 0.003+/-0.000 χ^2/NDF : 3112030.4/100

yield_bpm0r03X_mean vs Slug, Sign Corrected



Right In: -1.795+/-0.000 χ^2/NDF : 3941091940.7/23

Left Out: -1.173+/-0.000 χ^2/NDF : 6882684653.2/24

Right Out: -2.105+/-0.000 χ^2/NDF : 3106777557.7/28

Left In: -1.202+/-0.000 χ^2/NDF : 5606782515.9/22

Left: -1.187+/-0.000 χ^2/NDF : 12490828303.3/47

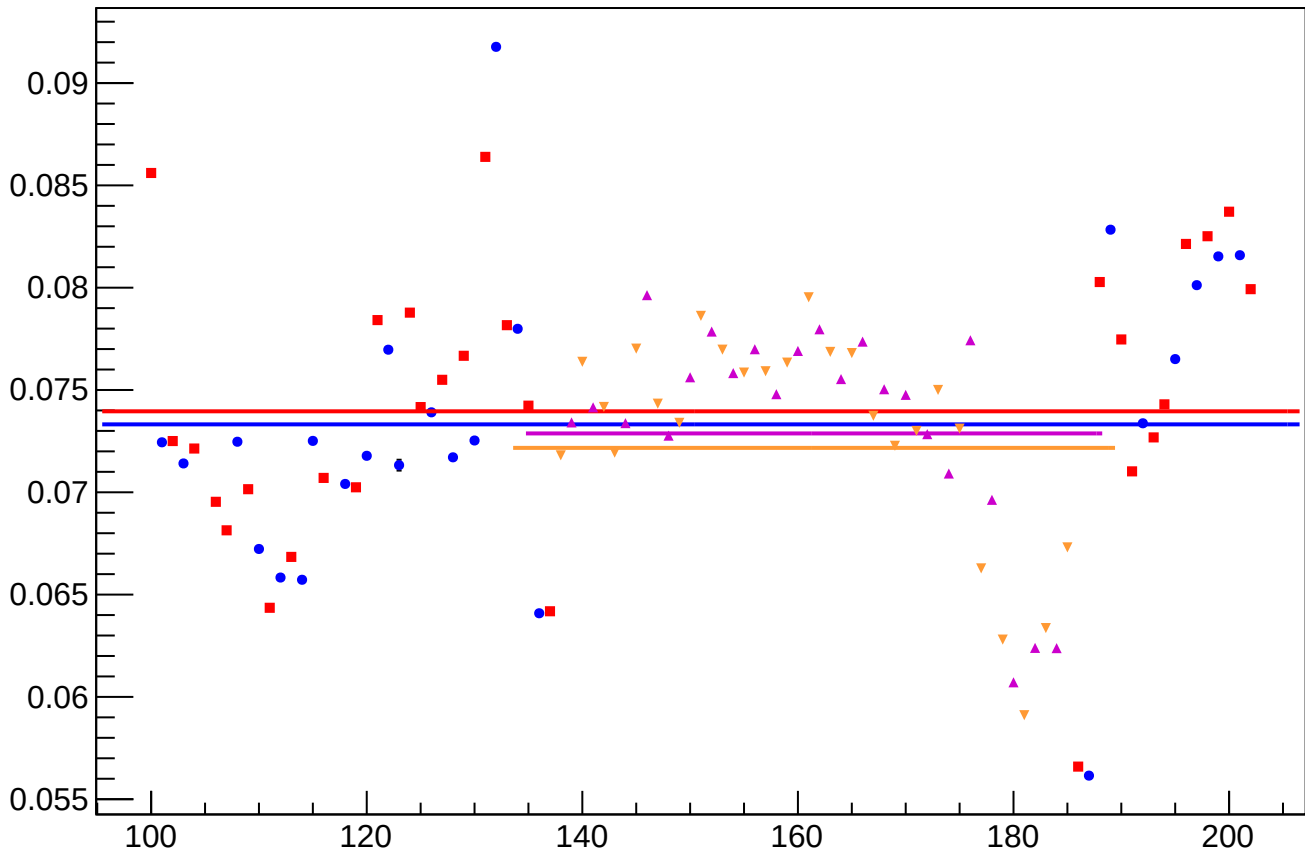
Right: -1.962+/-0.000 χ^2/NDF : 7155469434.7/52

In: -1.435+/-0.000 χ^2/NDF : 9990065847.8/46

Out: -1.556+/-0.000 χ^2/NDF : 11225307732.1/53

All: -1.499+/-0.000 χ^2/NDF : 21255948246.7/100

yield_bpm0r03X_rms vs Slug, Sign Corrected



Right In: 0.073+/-0.000 χ^2/NDF : 175837.0/23

Left Out: 0.072+/-0.000 χ^2/NDF : 222263.8/24

Right Out: 0.074+/-0.000 χ^2/NDF : 221762.0/28

Left In: 0.073+/-0.000 χ^2/NDF : 183503.0/22

Left: 0.073+/-0.000 χ^2/NDF : 407423.5/47

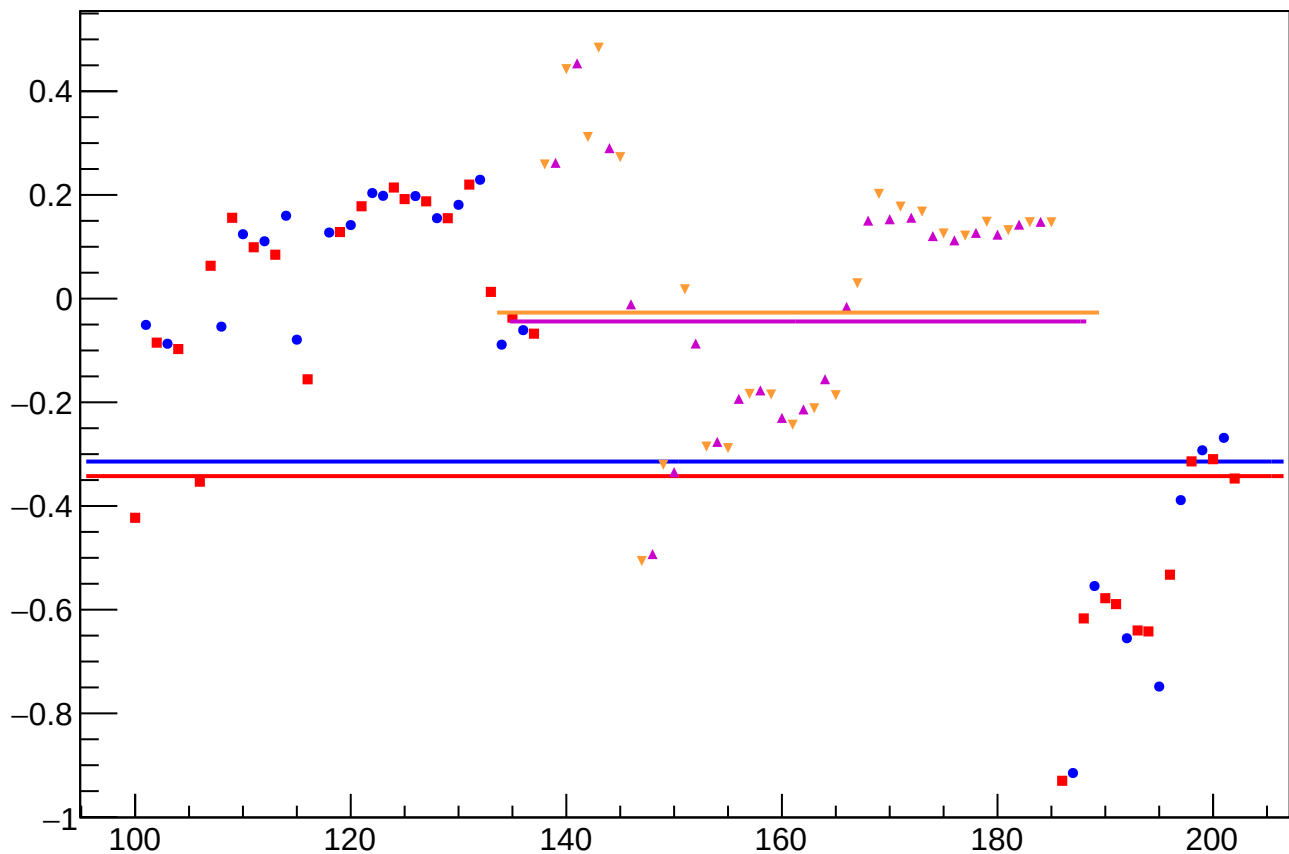
Right: 0.074+/-0.000 χ^2/NDF : 398507.0/52

In: 0.073+/-0.000 χ^2/NDF : 359833.5/46

Out: 0.073+/-0.000 χ^2/NDF : 453109.8/53

All: 0.073+/-0.000 χ^2/NDF : 813062.2/100

yield_bpm0r03Y_mean vs Slug, Sign Corrected



Right In: -0.314+/-0.000

χ^2/NDF : 12053493278.3/23

Left: -0.035+/-0.000

χ^2/NDF : 36148383394.4/47

Left Out: -0.027+/-0.000

χ^2/NDF : 20376761328.6/24

Right: -0.329+/-0.000

χ^2/NDF : 23050882414.4/52

Right Out: -0.342+/-0.000

χ^2/NDF : 10940499890.9/28

In: -0.120+/-0.000

χ^2/NDF : 34862898746.7/46

Out: -0.118+/-0.000

χ^2/NDF : 42215630338.8/53

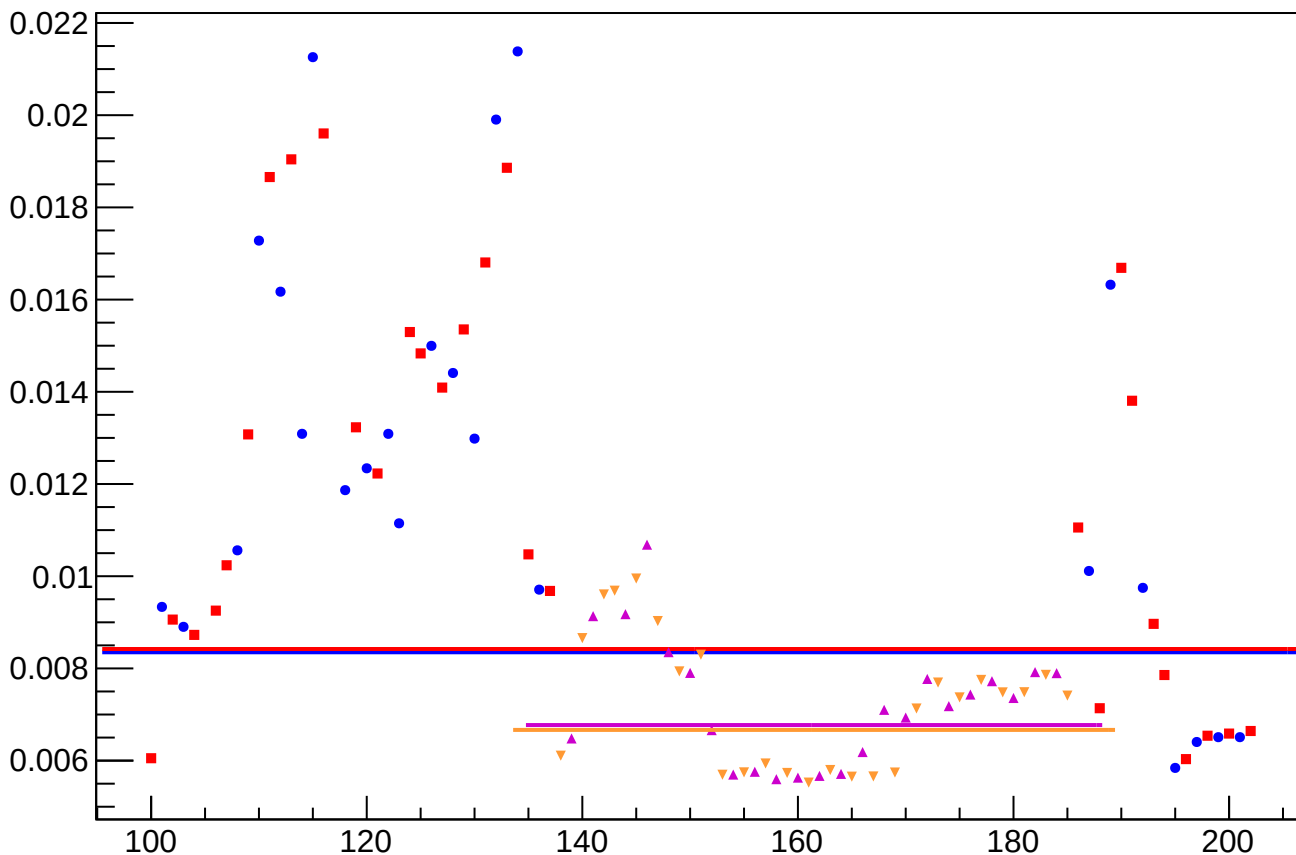
Left In: -0.044+/-0.000

χ^2/NDF : 15718556282.1/22

All: -0.119+/-0.000

χ^2/NDF : 77079338093.4/100

yield_bpm0r03Y_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 2458781.1/23

Left Out: 0.007+/-0.000 χ^2/NDF :1143768.6/24

Right Out: 0.008+/-0.000 χ^2/NDF : 2754217.2/28

Left In: 0.007+/-0.000 χ^2/NDF :934050.3/22

Left: 0.007+/-0.000 χ^2/NDF : 2081836.1/47

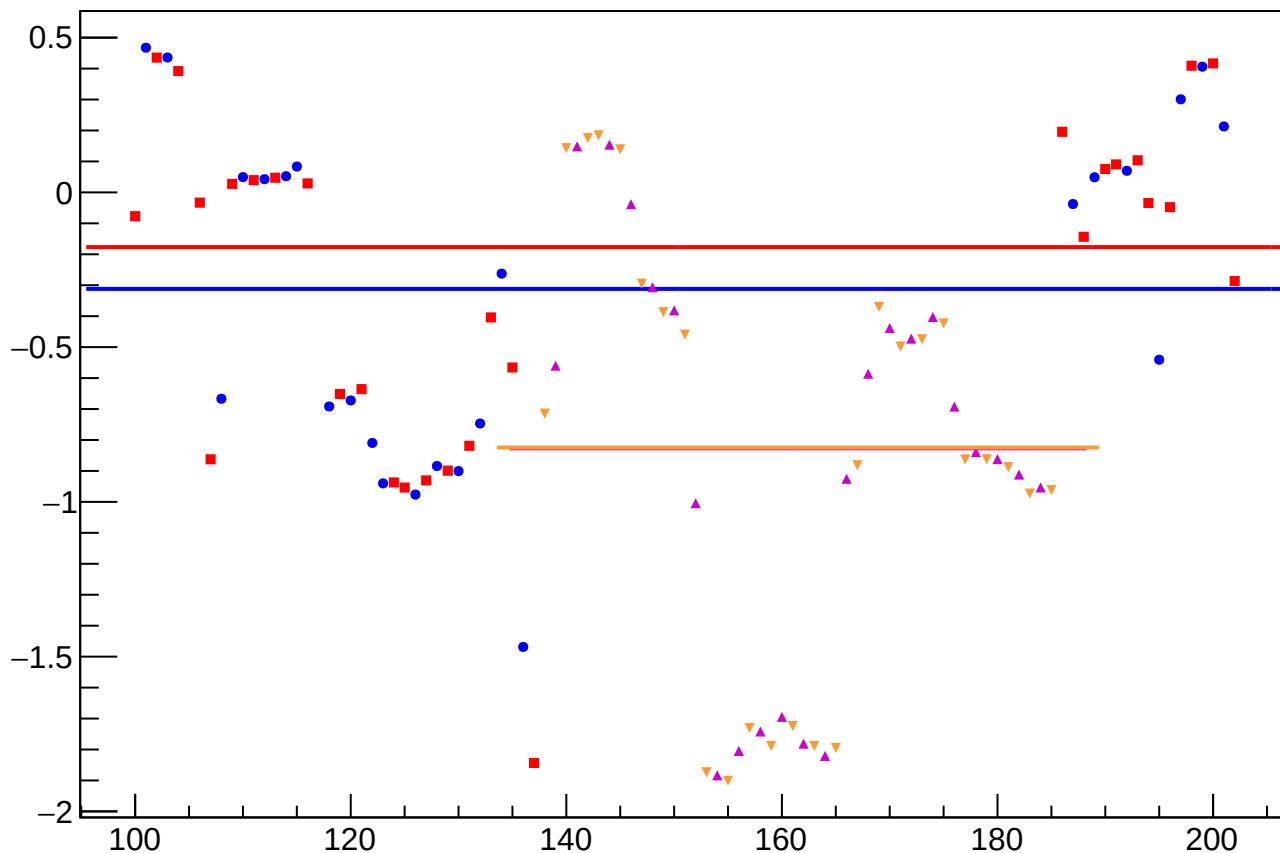
Right: 0.008+/-0.000 χ^2/NDF : 5213722.2/52

In: 0.007+/-0.000 χ^2/NDF :3876750.2/46

Out: 0.007+/-0.000 χ^2/NDF :4572448.9/53

All: 0.007+/-0.000 χ^2/NDF : 8450059.2/100

yield_bpm0r05X_mean vs Slug, Sign Corrected



Right In: -0.312 ± 0.000 $\chi^2/\text{NDF}: 489336949.0/23$

Left Out: -0.824 ± 0.000 $\chi^2/\text{NDF}: 1103610806.5/24$

Right Out: -0.177 ± 0.000 $\chi^2/\text{NDF}: 382192583.4/28$

Left In: -0.827 ± 0.000 $\chi^2/\text{NDF}: 921651117.3/22$

Left: -0.826 ± 0.000 $\chi^2/\text{NDF}: 2025270716.0/47$

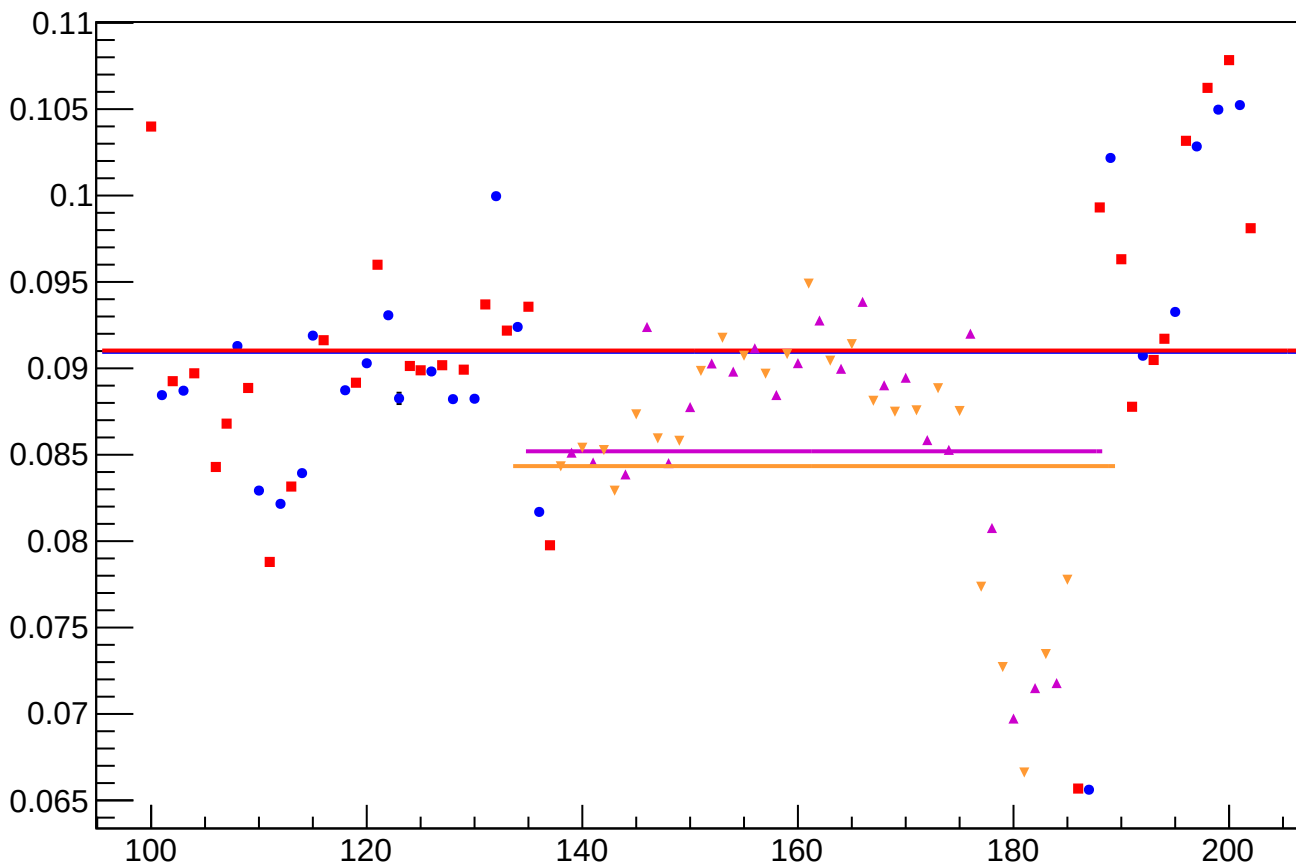
Right: -0.239 ± 0.000 $\chi^2/\text{NDF}: 884977008.3/52$

In: -0.638 ± 0.000 $\chi^2/\text{NDF}: 1640205331.9/46$

Out: -0.574 ± 0.000 $\chi^2/\text{NDF}: 1899473026.6/53$

All: -0.604 ± 0.000 $\chi^2/\text{NDF}: 3547752135.6/1$

yield_bpm0r05X_rms vs Slug, Sign Corrected



Right In: 0.091+/-0.000 χ^2/NDF : 186028.4/23

Left Out: 0.084+/-0.000 χ^2/NDF :288312.6/24

Right Out: 0.091+/-0.000 χ^2/NDF : 278753.0/28

Left In: 0.085+/-0.000 χ^2/NDF :238313.9/22

Left: 0.085+/-0.000 χ^2/NDF : 528427.1/47

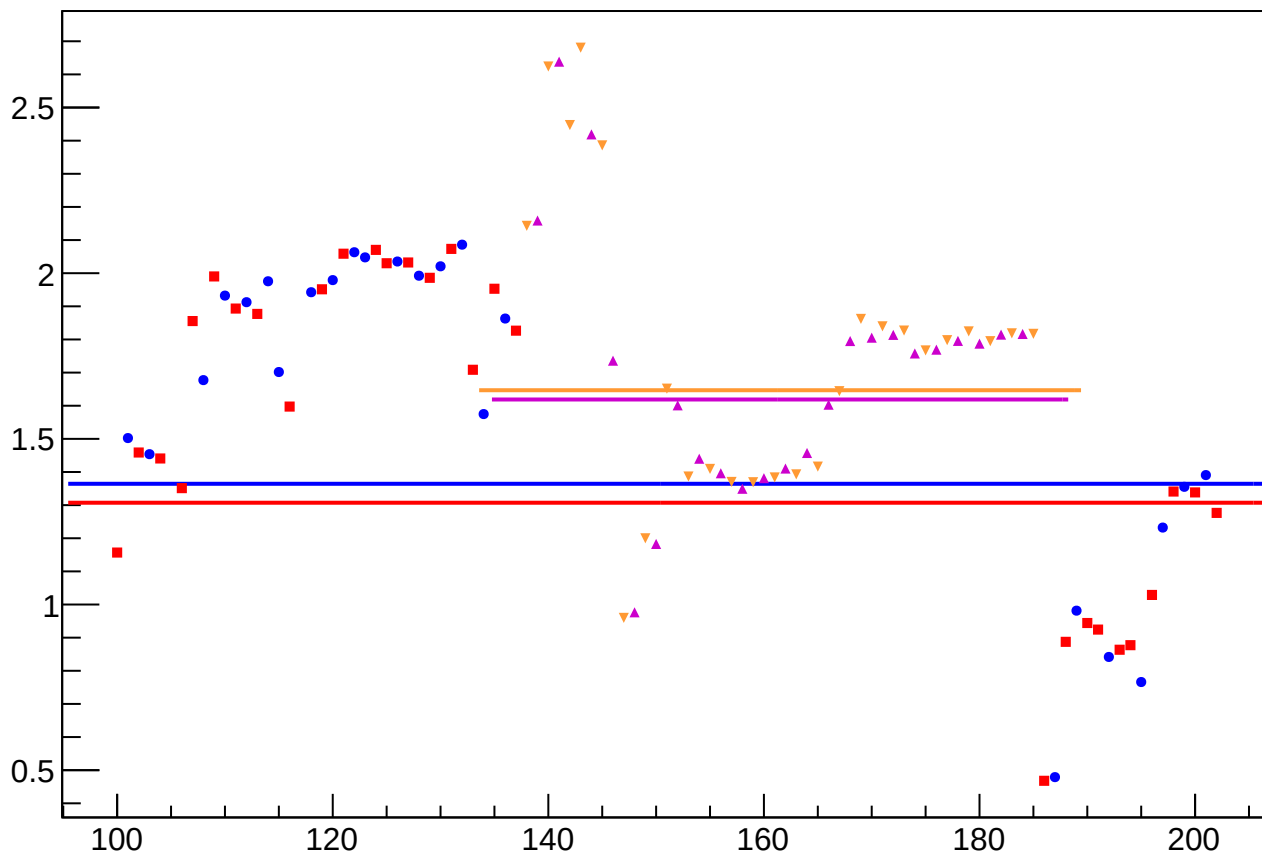
Right: 0.091+/-0.000 χ^2/NDF : 464790.1/52

In: 0.087+/-0.000 χ^2/NDF :481537.4/46

Out: 0.087+/-0.000 χ^2/NDF :655333.8/53

All: 0.087+/-0.000 χ^2/NDF : 1137441.6/100

yield_bpm0r05Y_mean vs Slug, Sign Corrected



Right In: 1.364 $\pm$ 0.000 χ^2 /NDF: 12501757265.9/23

Left Out: 1.647 $\pm$ 0.000 χ^2 /NDF: 26535241545.7/24

Right Out: 1.307 $\pm$ 0.000 χ^2 /NDF: 11992834195.0/28

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

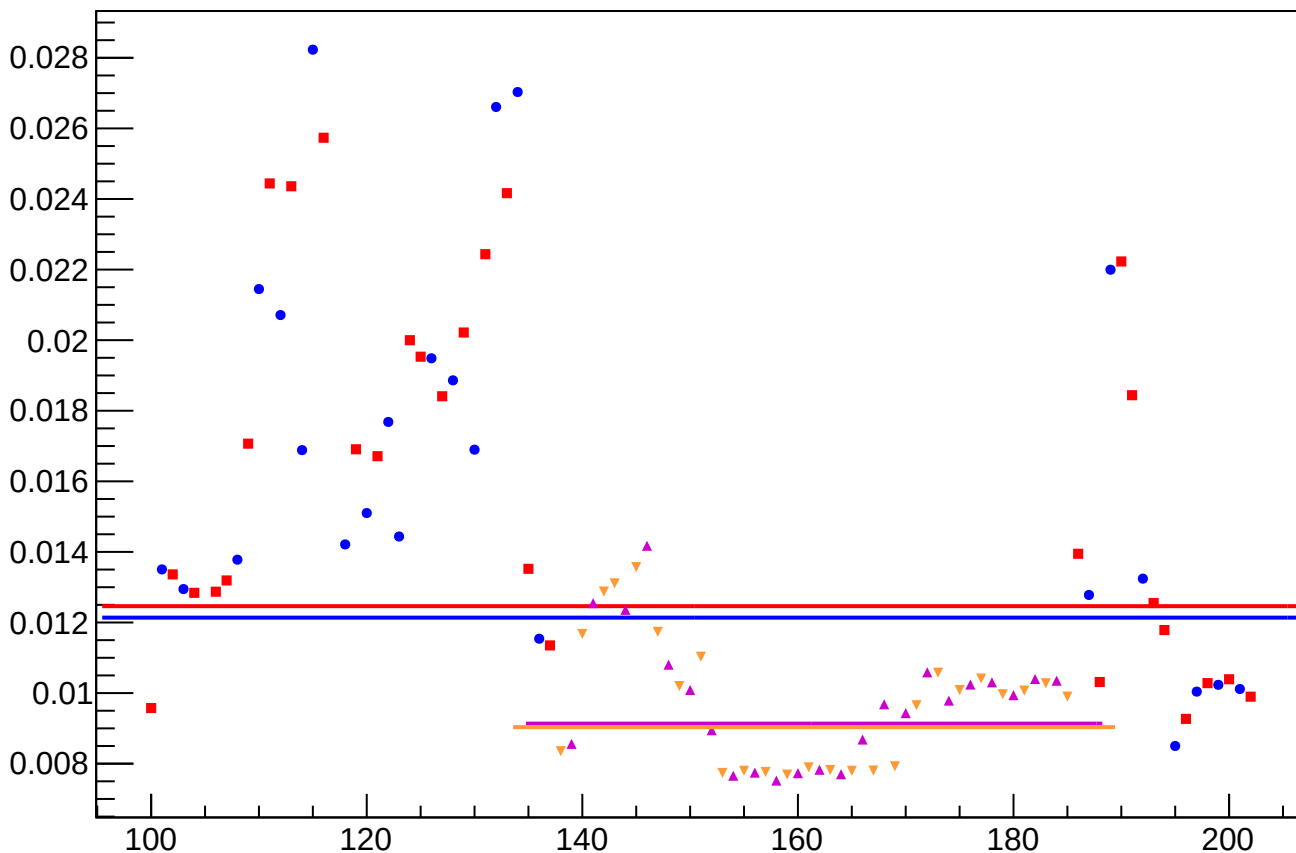
Right: 1.334 $\pm$ 0.000 χ^2 /NDF: 24608395604.8/52

In: 1.553 $\pm$ 0.000 χ^2 /NDF: 36310493118.0/46

Out: 1.558 $\pm$ 0.000 χ^2 /NDF: 44777862317.6/53

All: 1.556 $\pm$ 0.000 χ^2 /NDF: 81091766108.0/100

yield_bpm0r05Y_rms vs Slug, Sign Corrected



Right In: 0.012+/-0.000 χ^2/NDF : 1711671.7/23

Left Out: 0.009+/-0.000 χ^2/NDF :1042871.8/24

Right Out: 0.012+/-0.000 χ^2/NDF : 1934956.1/28

Left In: 0.009+/-0.000 χ^2/NDF :878356.2/22

Left: 0.009+/-0.000 χ^2/NDF : 1923188.0/47

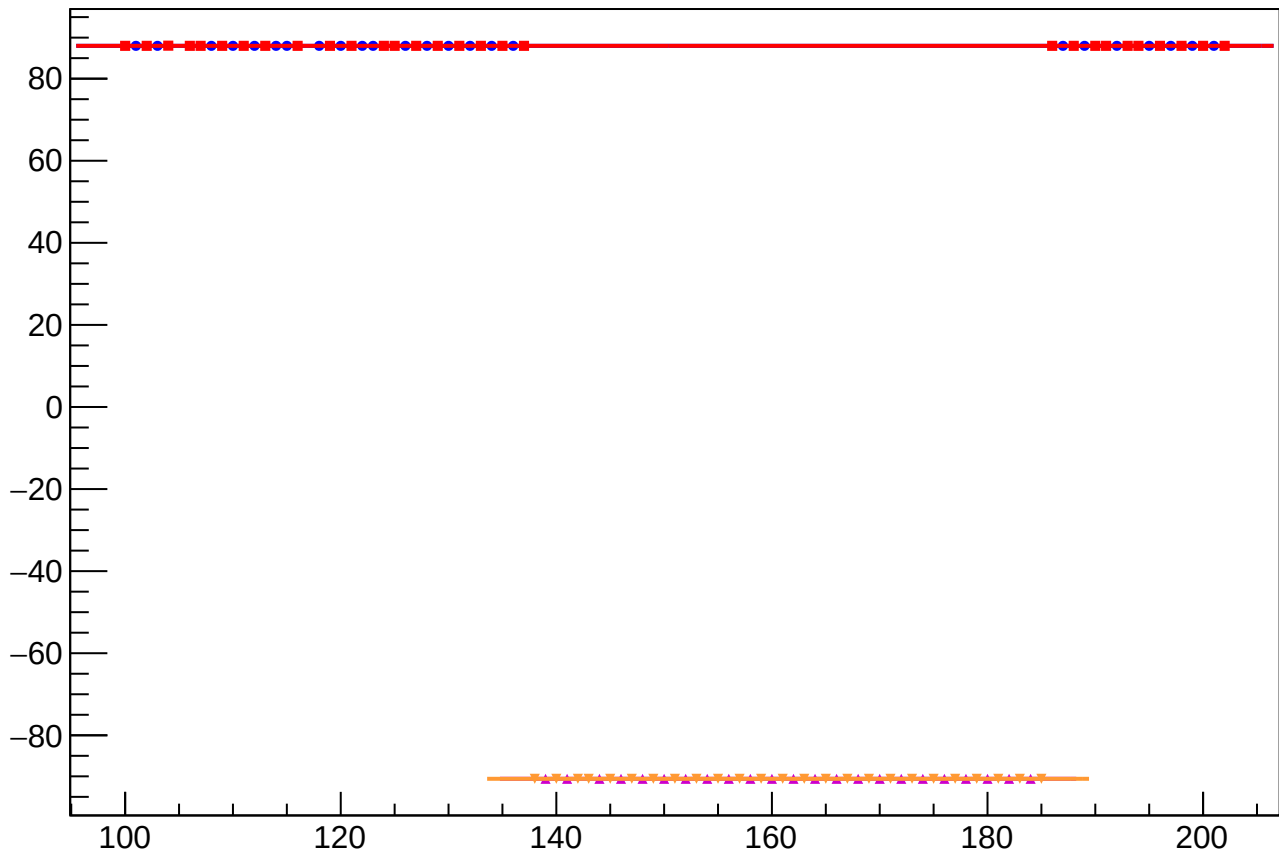
Right: 0.012+/-0.000 χ^2/NDF : 3653967.0/52

In: 0.010+/-0.000 χ^2/NDF :3479167.9/46

Out: 0.010+/-0.000 χ^2/NDF :4251048.7/53

All: 0.010+/-0.000 χ^2/NDF : 7730326.9/100

epics_VWienAngles_mean vs Slug, Sign Corrected



Right In: 88.001+/-0.000 χ^2/NDF : 3577717.7/23

Left Out: -90.599+/-0.000 χ^2/NDF : 5785821.4/24

Right Out: 88.002+/-0.000 χ^2/NDF : 80360659199229512924285370368.0/28

Left In: -90.599+/-0.000 χ^2/NDF : 7134230.8/22

Left: -90.599+/-0.000 χ^2/NDF : 11903242.1/47

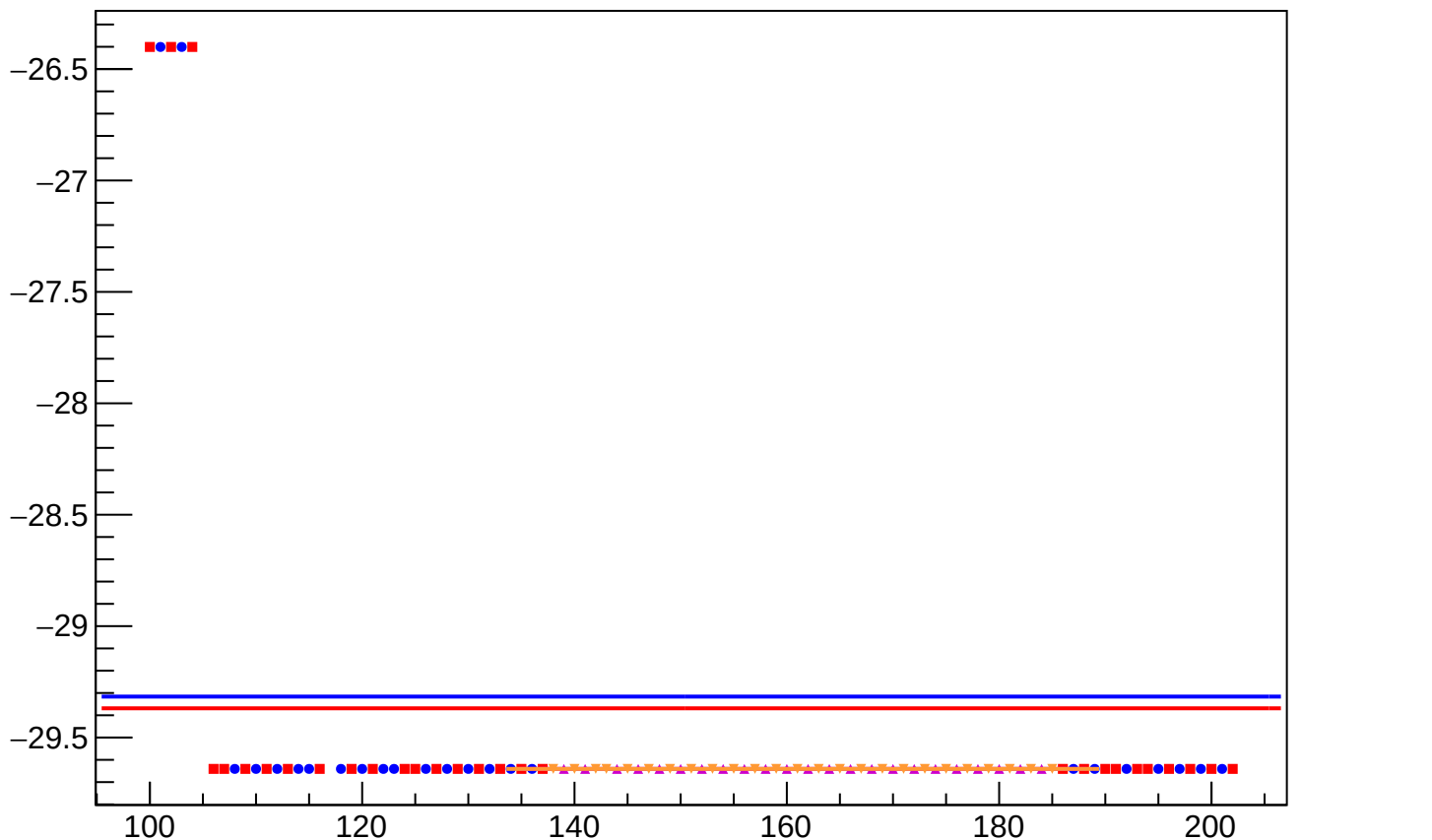
Right: 88.002+/-0.000 χ^2/NDF : 8177756486327018

In: -19.856+/-0.000 χ^2/NDF : 22692041424505696

Out: -15.507+/-0.000 χ^2/NDF : 2554897543486533

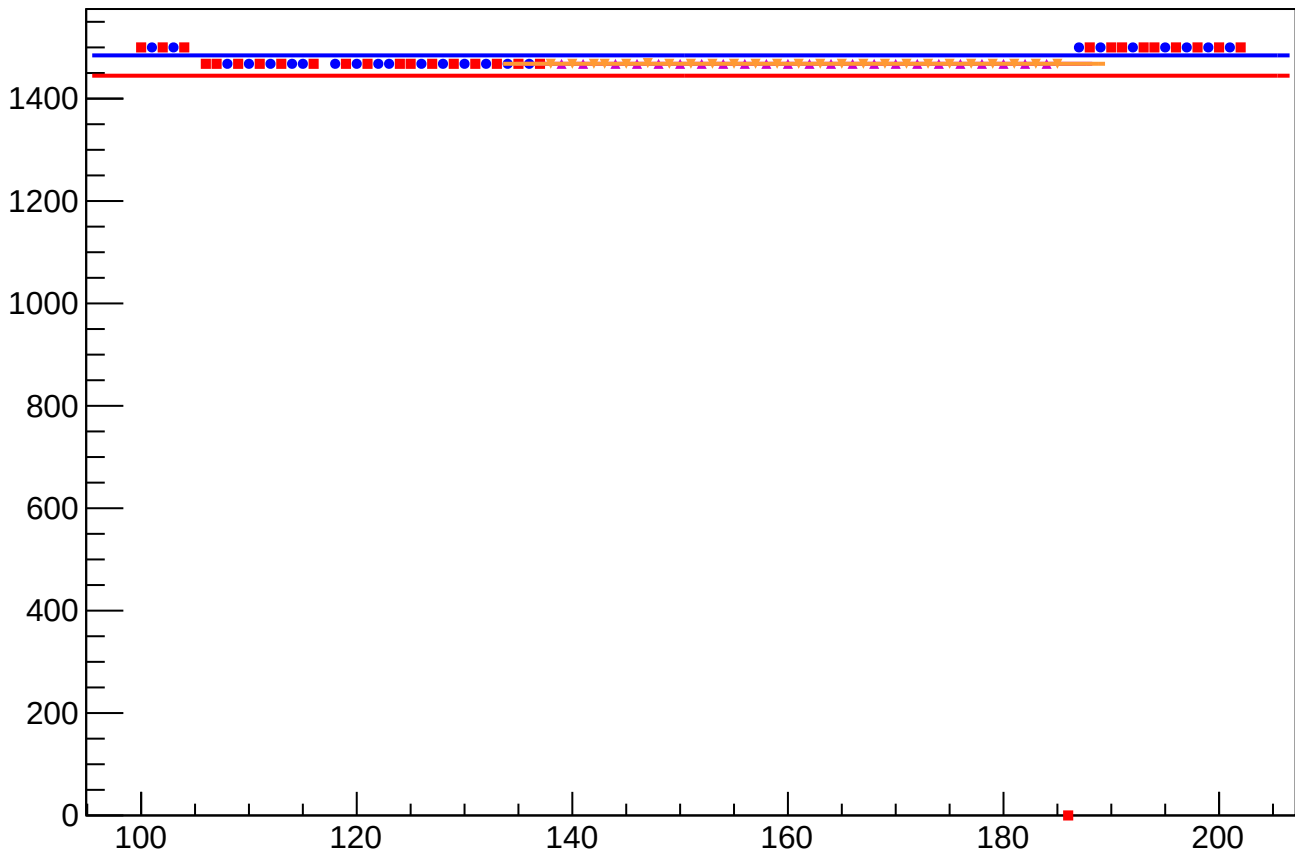
All: -17.573+/-0.000 χ^2/NDF : 482705420098

epics_HWienAngles_mean vs Slug, Sign Corrected



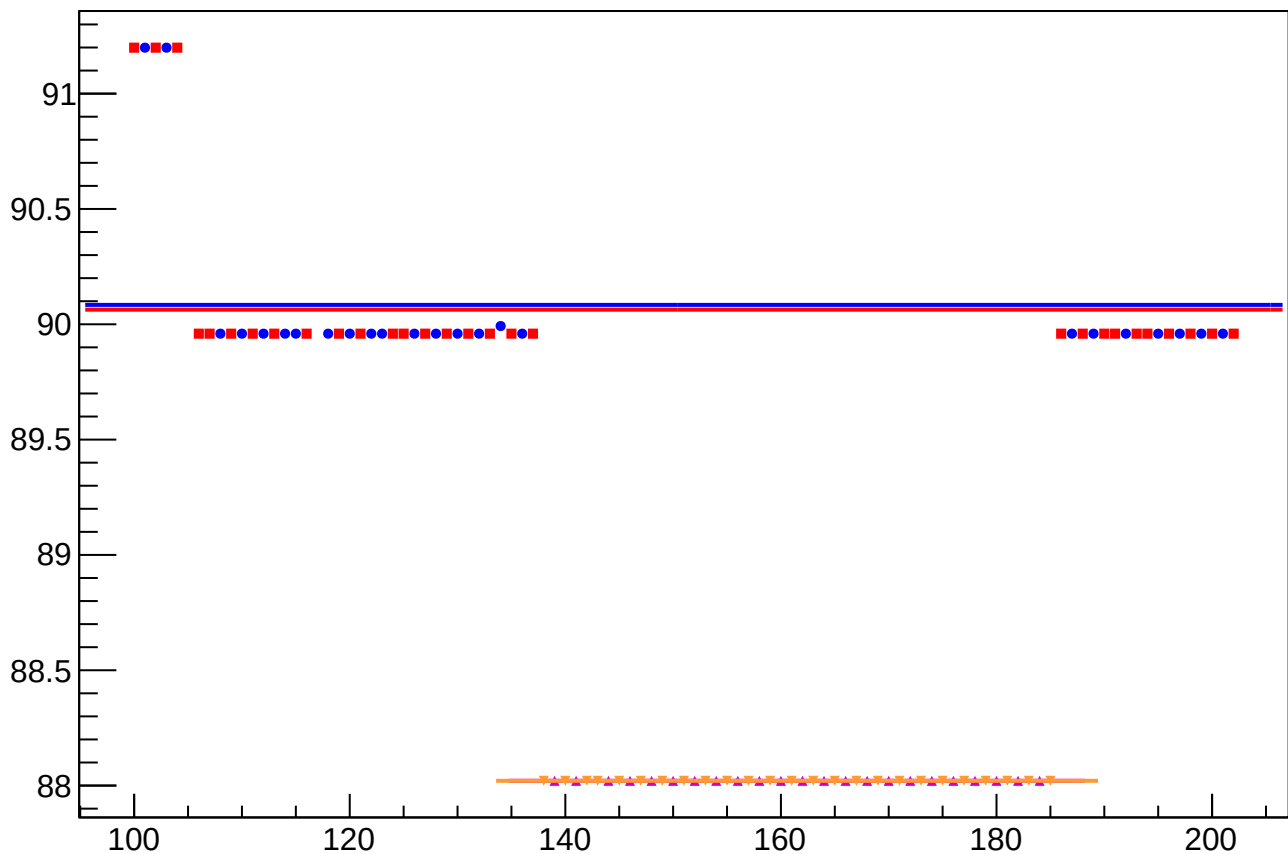
Right In: -29.316+/-0.000 χ^2/NDF : 1114634811544991087645455560998912.0/23
 Left Out: -29.641+/-0.000 χ^2/NDF : 530354.3/24
 Right Out: -29.369+/-0.000 χ^2/NDF : 1115510525036170623824352082132992.0/28
 Left In: -29.641+/-0.000 χ^2/NDF : 382603.8/22
 In: -29.512+/-0.000 χ^2/NDF : 11895679827841146
 Out: -29.526+/-0.000 χ^2/NDF : 1174747549011230
 All: -29.520+/-0.000 χ^2/NDF : 236463092745

epics_psub_pl_pos_mean vs Slug, Sign Corrected



Right In: 1484.425+/-0.000 χ^2/NDF : 301748769016436903694220962035662848.0/23
 Left Out: 1468.048+/-0.000 χ^2/NDF : 127949199501977668488138456039424.0/24
 Right Out: 1444.761+/-0.000 χ^2/NDF : 81901340097495099494703597147306065920.0/28
 Left In: 1467.994+/-0.000 χ^2/NDF : 144497772795444989723550941184.0/22
 All: 1465.974+/-0.000 χ^2/NDF : 83241630886

epics_Phi_FGs_mean vs Slug, Sign Corrected



Right In: 90.084+/-0.000

χ^2/NDF : 163112432190759355204599566827520.0/23

Left Out: 88.021+/-0.000

χ^2/NDF : 5679798.5/24

Right Out: 90.063+/-0.000

χ^2/NDF : 163390582923339723894831087353856.0/28

Left In: 88.021+/-0.000

χ^2/NDF : 6257169.0/22

Left: 88.021+/-0.000 χ^2/NDF : 13134723.4/47

Right: 90.073+/-0.000

χ^2/NDF : 3267759983866999

In: 88.838+/-0.000

χ^2/NDF : 319194138424865260

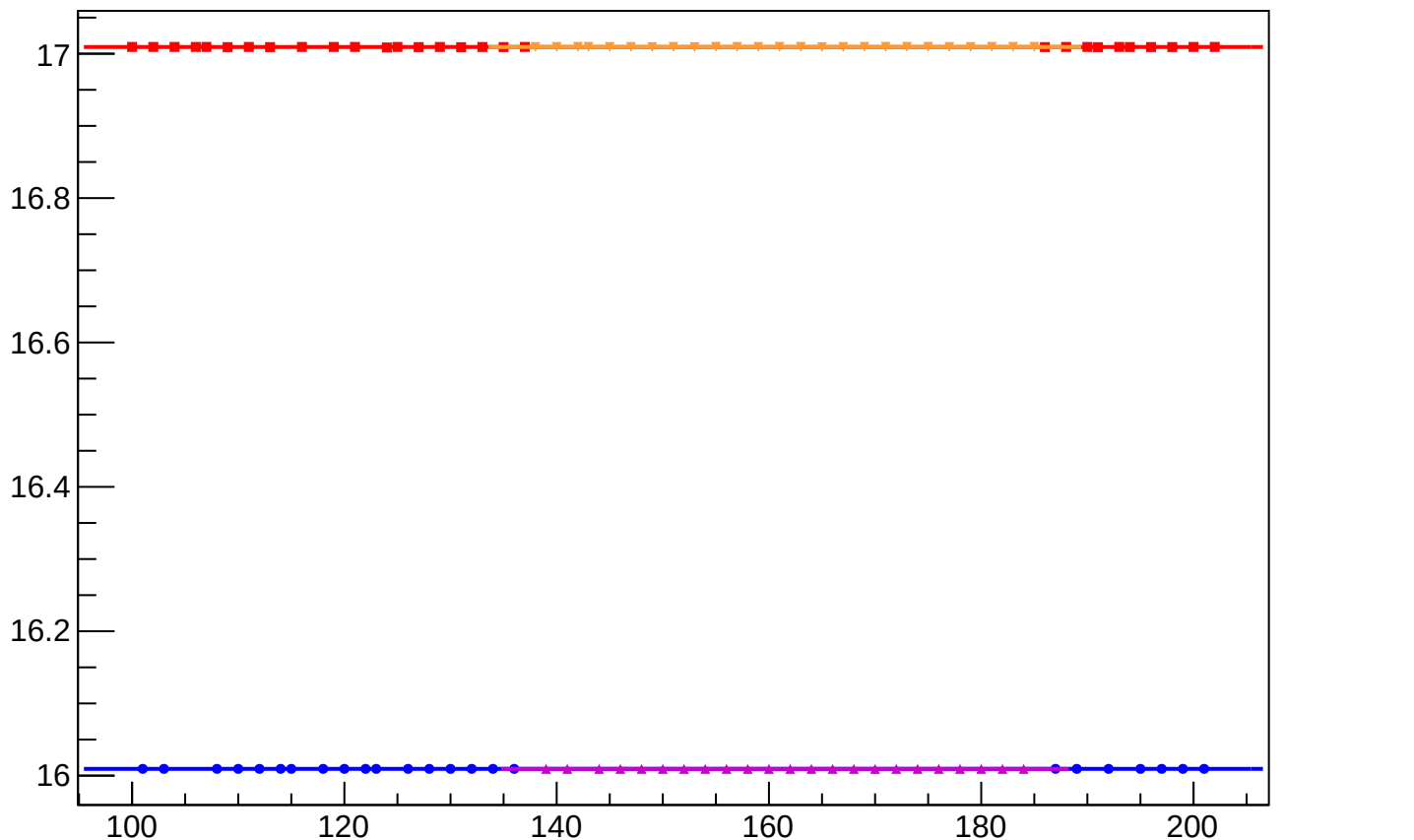
Out: 88.880+/-0.000

χ^2/NDF : 35053546638880705

All: 88.860+/-0.000

χ^2/NDF : 6699987855737

epics_IGL1I00DI24_24Ms_mean vs Slug, Sign Corrected



Right In: 16.009 $\pm$ 0.000 χ^2 /NDF: 181173.0/23

Left Out: 17.009 $\pm$ 0.000 χ^2 /NDF: 26194929080144976634970112.0/24

Right Out: 17.009 $\pm$ 0.000 χ^2 /NDF: 17589048934529243216347136.0/28

Left In: 16.009 $\pm$ 0.000 χ^2 /NDF: 127920993667935400624128.0/22

Left: 16.524 $\pm$ 0.000 χ^2 /NDF: 85855870772921272

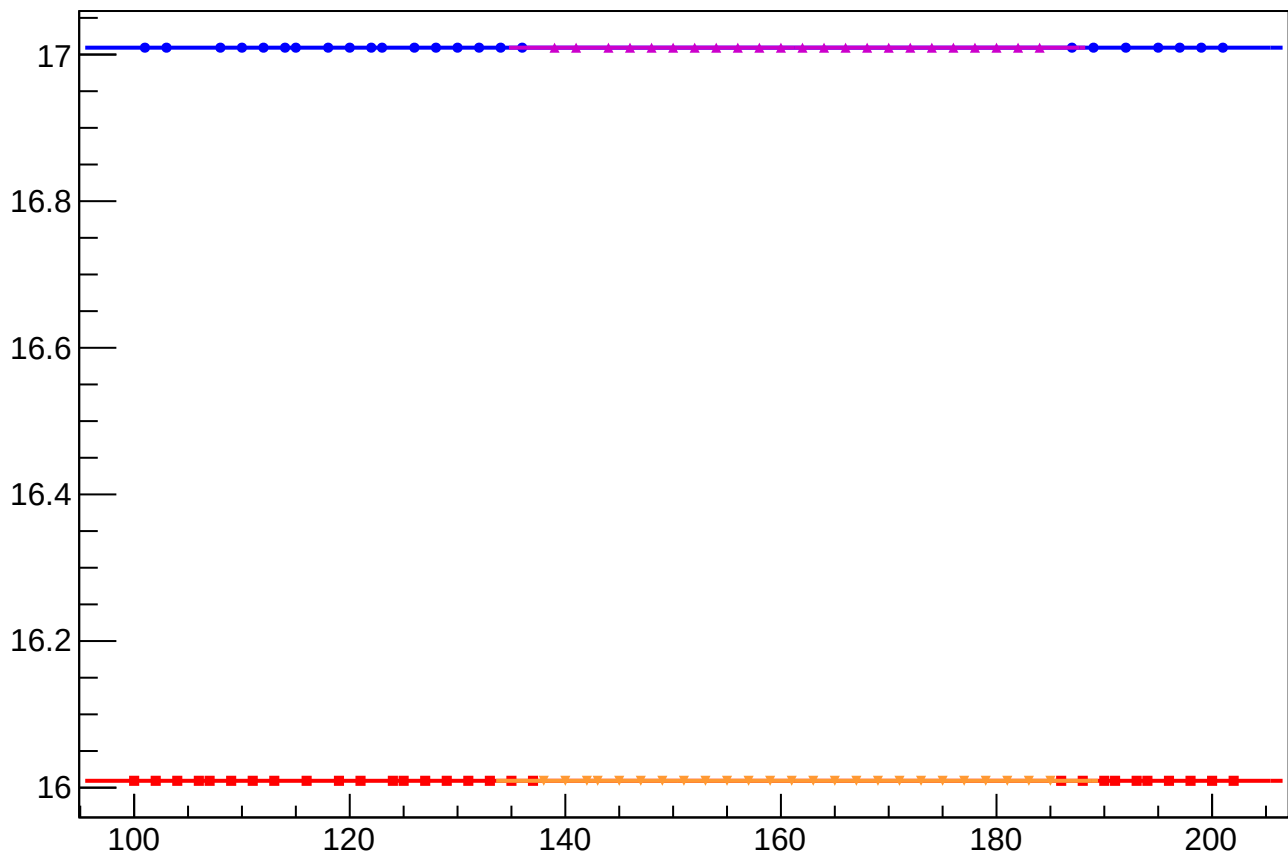
Right: 16.544 $\pm$ 0.000 χ^2 /NDF: 6122453414311459

In: 16.009 $\pm$ 0.000 χ^2 /NDF: 130305313572891224

Out: 17.009 $\pm$ 0.000 χ^2 /NDF: 44259309733042860

All: 16.532 $\pm$ 0.000 χ^2 /NDF: 1471350202515

epics_IGL1I00OD16_16s_mean vs Slug, Sign Corrected



Right In: 17.009 $\pm$ 0.000 χ^2 /NDF: 278259.6/23

Left Out: 16.009 $\pm$ 0.000 χ^2 /NDF: 61253.5/24

Right Out: 16.009 $\pm$ 0.000 χ^2 /NDF: 262406.7/28

Left In: 17.009 $\pm$ 0.000 χ^2 /NDF: 114986101427233622065152.0/22

Left: 16.491 $\pm$ 0.000 χ^2 /NDF: 90683349233974450

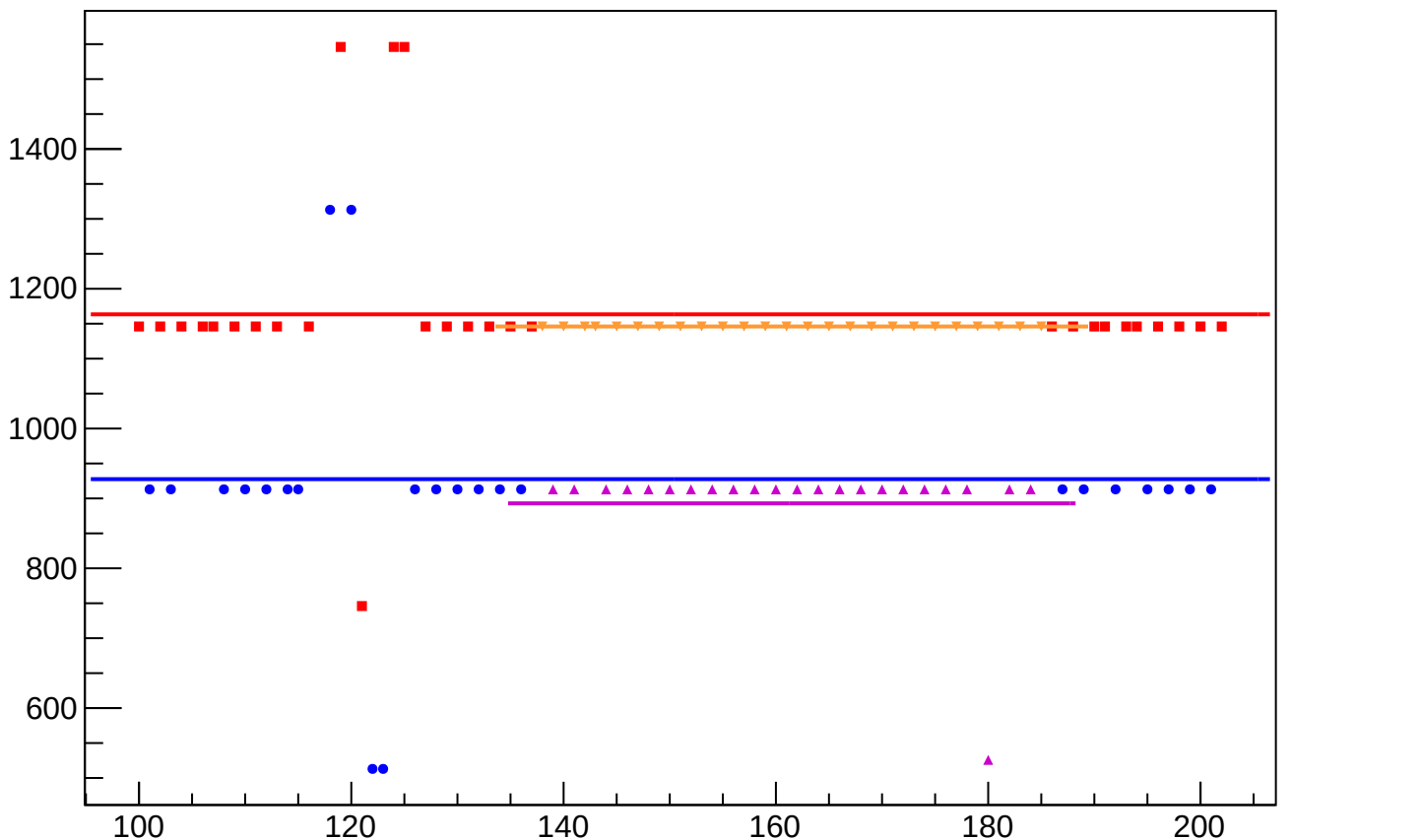
Right: 16.464 $\pm$ 0.000 χ^2 /NDF: 6250495834985852

In: 17.009 $\pm$ 0.000 χ^2 /NDF: 117192327565135845

Out: 16.009 $\pm$ 0.000 χ^2 /NDF: 535996.3/53

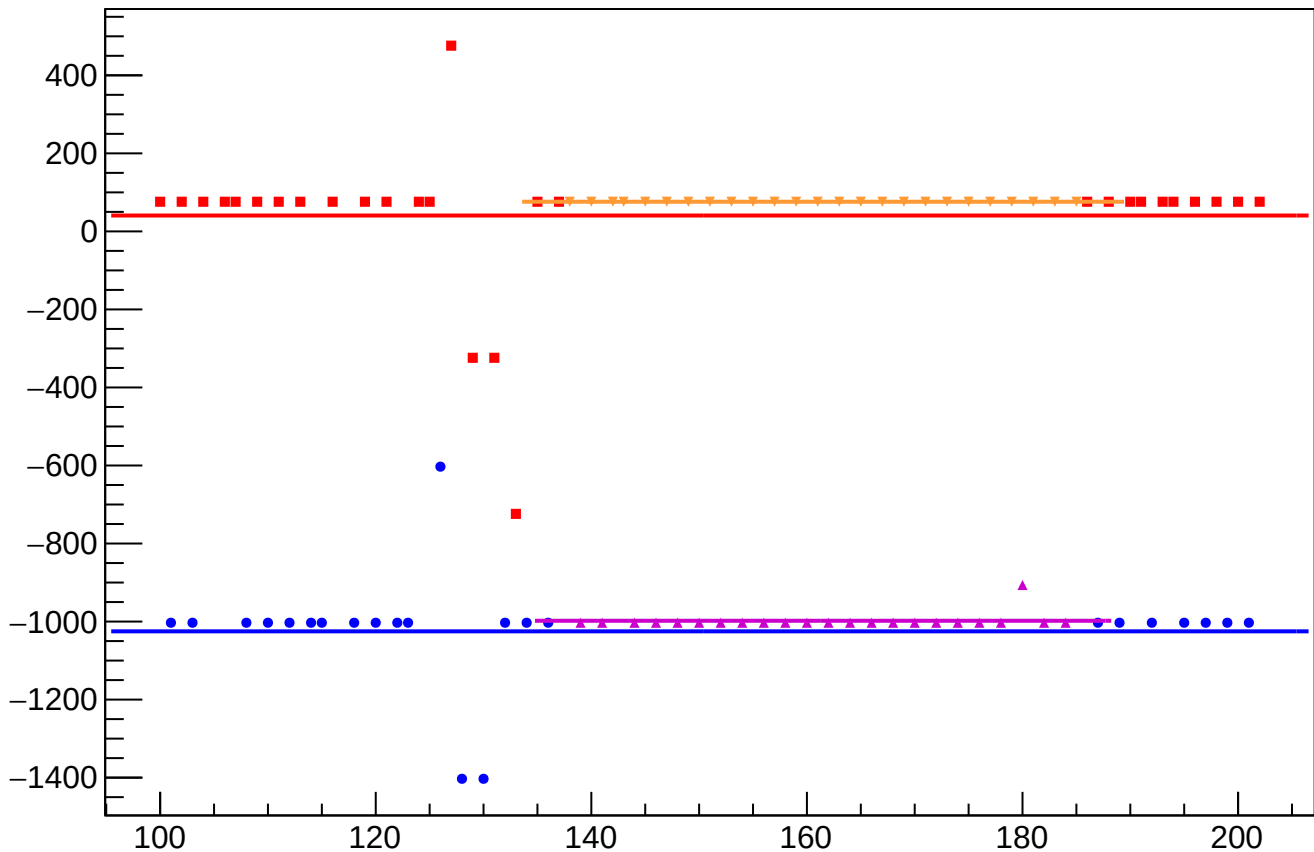
All: 16.480 $\pm$ 0.000 χ^2 /NDF: 1533010182143

epics_RTPAPOSUCNTs_mean vs Slug, Sign Corrected



Right In: 927.596+/-0.000 χ^2/NDF : 21030190862914709423799133088404996096.0/23
 Left Out: 1146.011+/-0.000 χ^2/NDF : 8056834670270133849999540224.0/24
 Right Out: 1163.376+/-0.000 χ^2/NDF : 21663927039868818713388204503632707584.0/28
 Left In: 892.950+/-0.000 χ^2/NDF : 13213852485930520518972295012897783808.0/22
 All: 1036.158+/-0.000 χ^2/NDF : 15198043603

epics_RTPAPOSVCNTs_mean vs Slug, Sign Corrected



Right In: -1025.061 +/- 0.000 χ^2/NDF : 22625797927699263291224407072206487552.0/23
 Left Out: 76.011 +/- 0.000 χ^2/NDF : 11479003589933272170007363584.0/24
 Right Out: 40.699 +/- 0.000 χ^2/NDF : 45316550801841017130688975958574104576.0/28
 Left In: -997.979 +/- 0.000 χ^2/NDF : 825858066518991041870194619245920256.0/22
 All: -447.028 +/- 0.000 χ^2/NDF : 18574311674