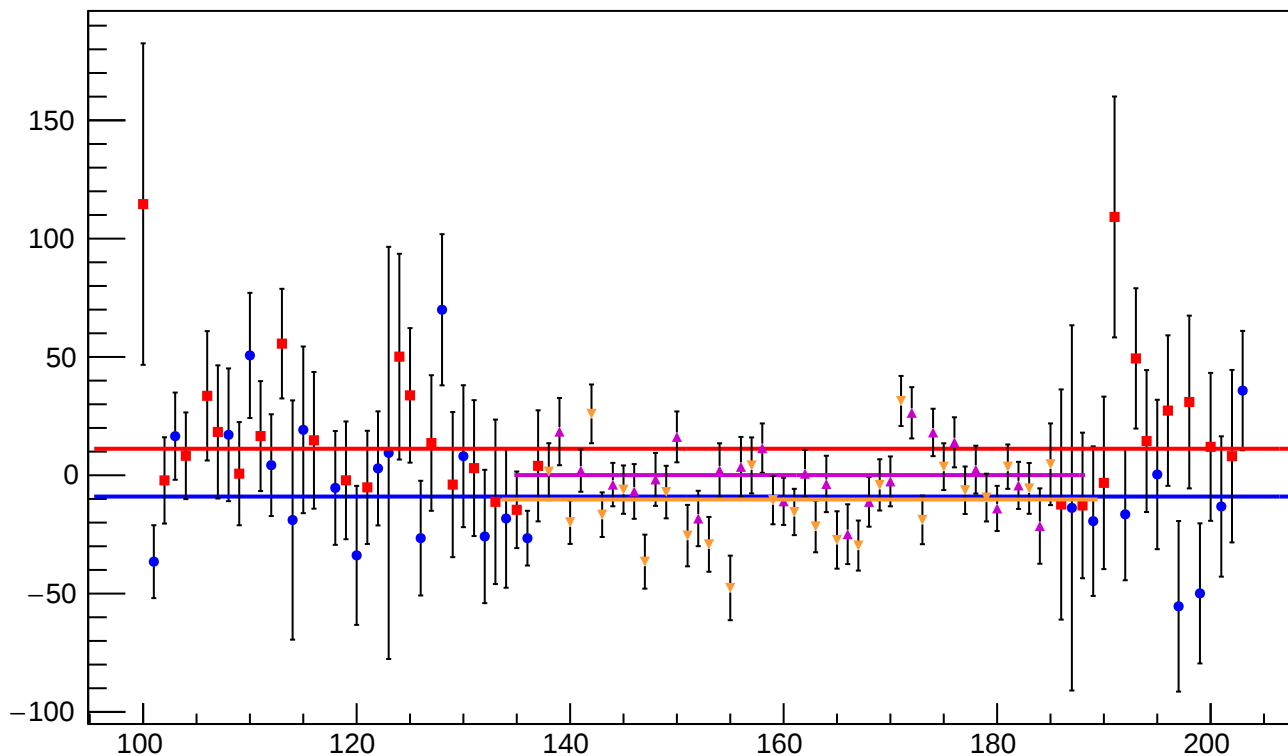


diff_bpm4aX_mean vs Slug, Sign Corrected



Right In: -8.991 $\pm$ 5.016

χ^2/NDF : 29.9/24

Left Out: -10.238 $\pm$ 2.170

χ^2/NDF : 58.1/24

Right Out: 11.211 $\pm$ 5.044

χ^2/NDF : 20.1/28

Left In: 0.080 $\pm$ 2.251

χ^2/NDF : 29.9/22

Left: -5.266 $\pm$ 1.562

χ^2/NDF : 98.9/47

Right: 1.053 $\pm$ 3.557

χ^2/NDF : 58.1/53

In: -1.440 $\pm$ 2.053

χ^2/NDF : 62.5/47

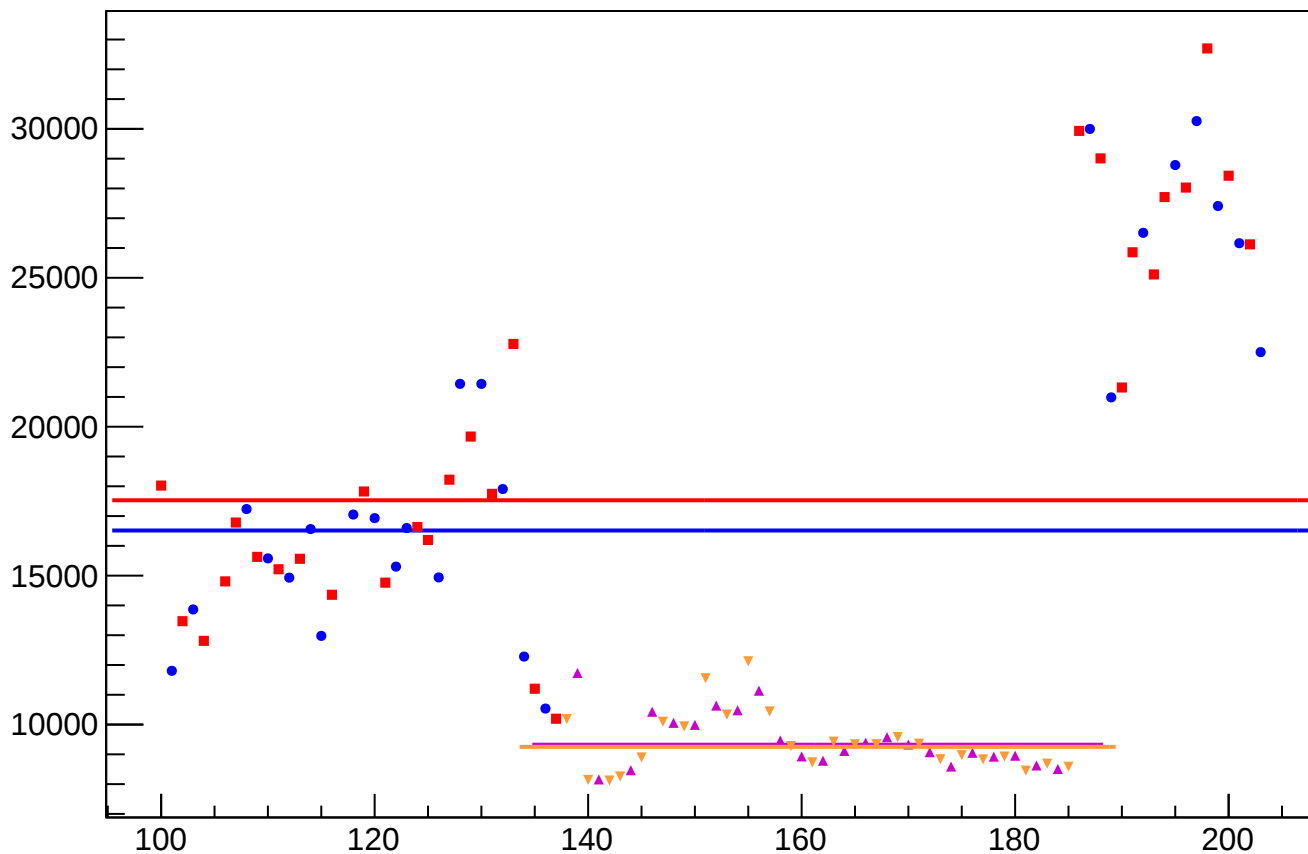
Out: -6.888 $\pm$ 1.994

χ^2/NDF : 93.5/53

All: -4.244 $\pm$ 1.430

χ^2/NDF : 159.6/101

diff_bpm4aX_rms vs Slug, Sign Corrected



Right In: 16515.549 $\pm$ 3.547 χ^2 /NDF: 2507983.8/24

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

Right Out: 17530.756 $\pm$ 3.567 χ^2 /NDF: 2679699.0/28

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

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

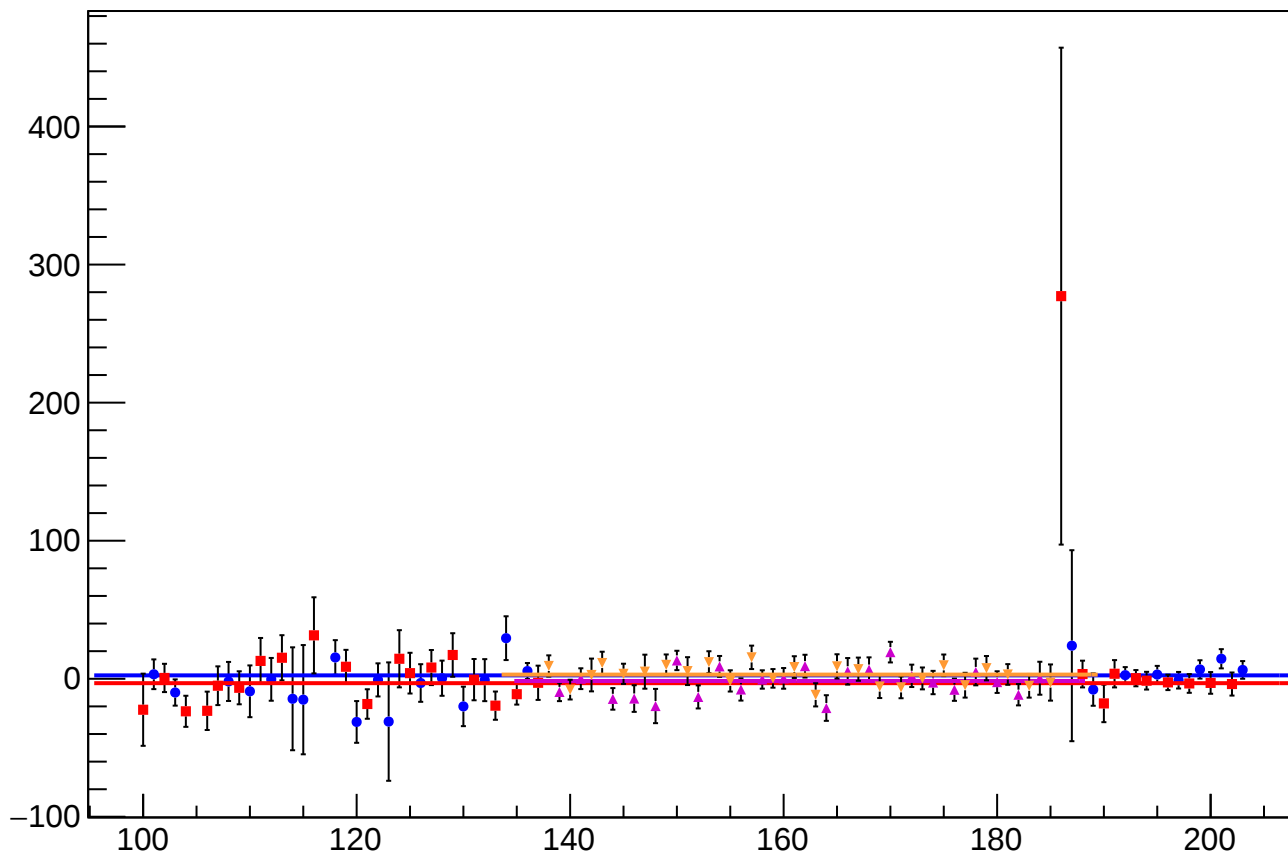
Right: 17020.278 $\pm$ 2.515 χ^2 /NDF: 5228416.9/53

In: 10529.165 $\pm$ 1.452 χ^2 /NDF:6206113.2/47

Out: 10544.902 $\pm$ 1.410 χ^2 /NDF:7557928.0/53

All: 10537.266 $\pm$ 1.011 χ^2 /NDF: 13764101.6/107

diff_bpm4aY_mean vs Slug, Sign Corrected



Right In: 2.473 ± 1.948 χ^2/NDF : 20.3/24

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

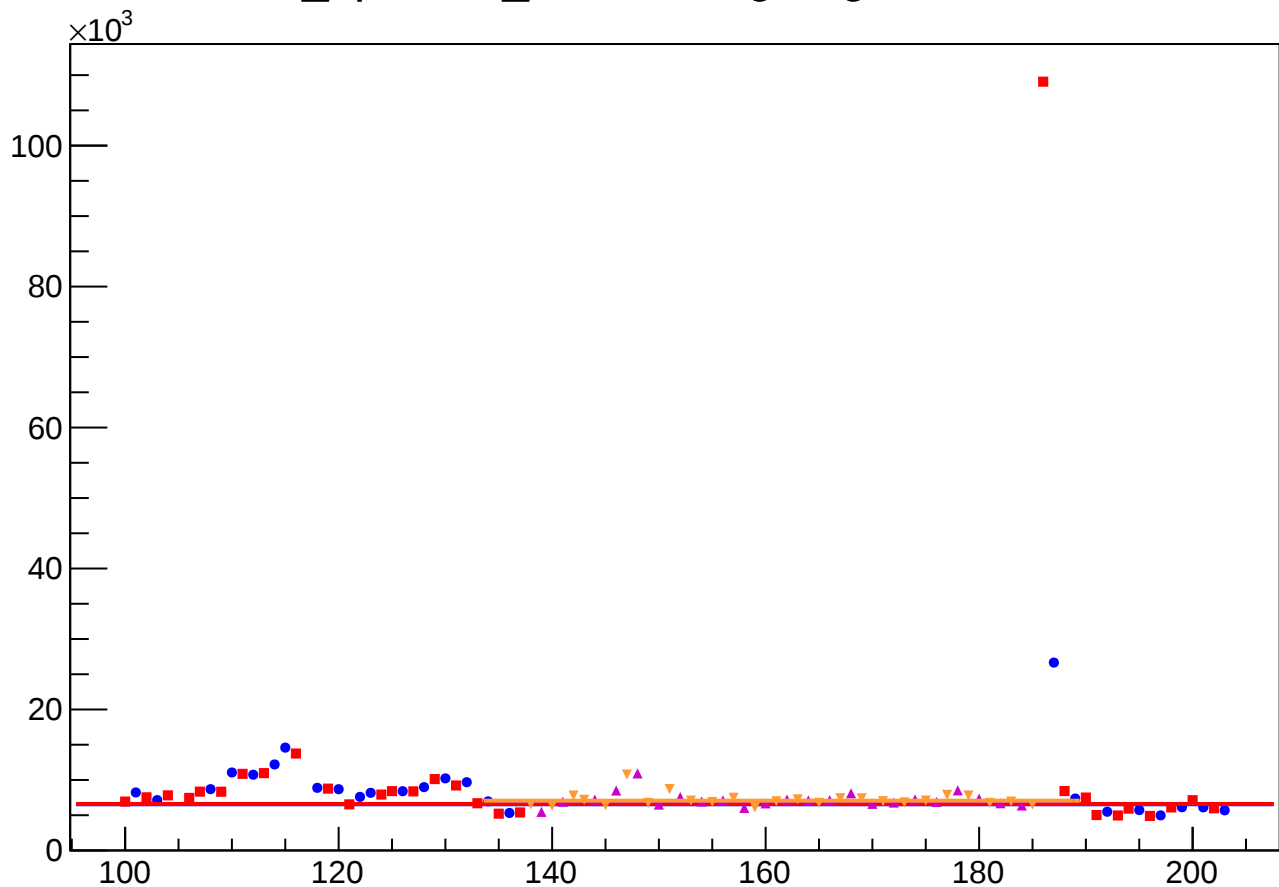
Right: -0.434 ± 1.357 χ^2/NDF : 49.6/53

In: 0.170 ± 1.282 χ^2/NDF : 58.2/47

Out: 0.328 ± 1.248 χ^2/NDF : 49.6/53

All: 0.251 ± 0.894 χ^2/NDF : 107.9/101

diff_bpm4aY_rms vs Slug, Sign Corrected



Right In: 6552.378 $\pm$ 1.378 χ^2/NDF : 1507337.3/24

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

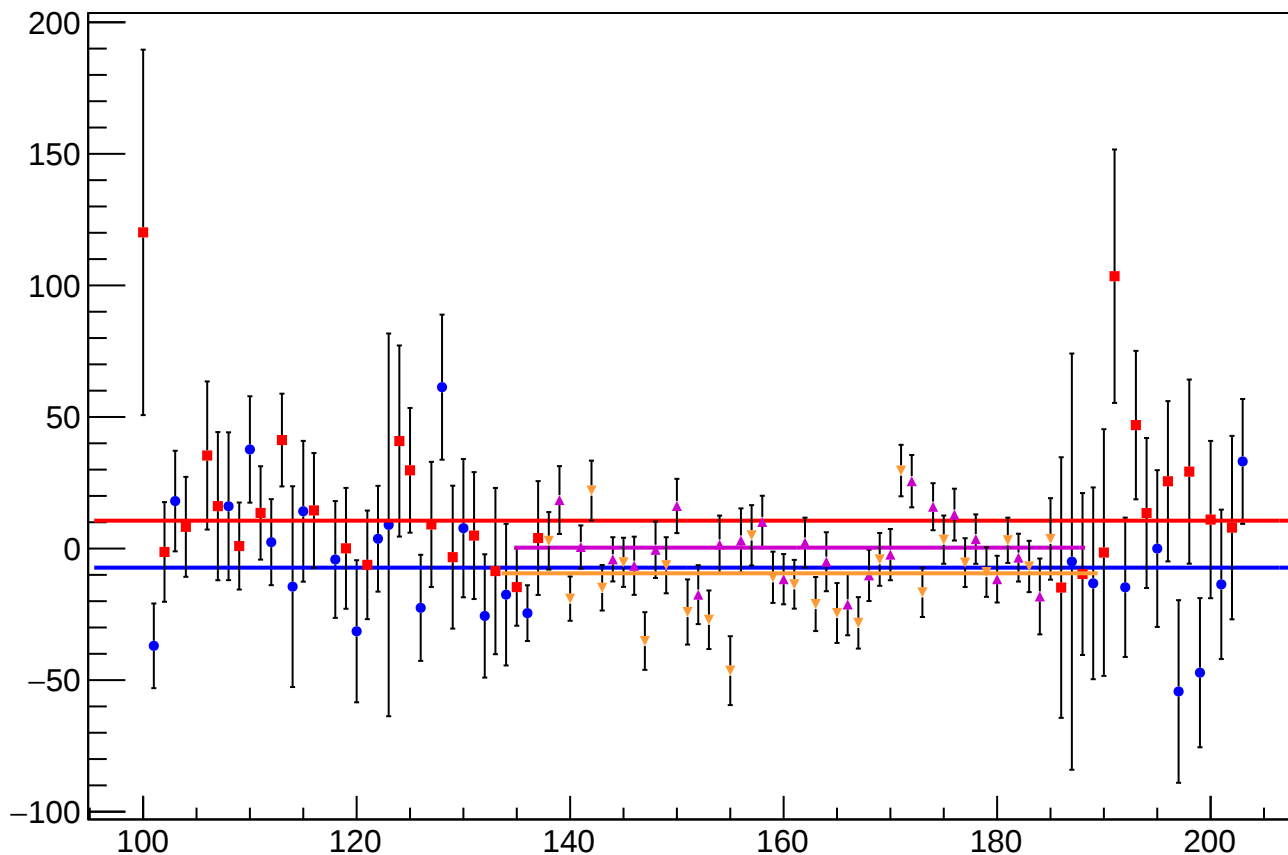
Right: 6575.065 $\pm$ 0.960 χ^2/NDF : 3600723.8/53

In: 6814.444 $\pm$ 0.907 χ^2/NDF : 2096469.2/47

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

All: 6838.244 $\pm$ 0.632 χ^2/NDF : 4646615.9/100

diff_bpm4eX_mean vs Slug, Sign Corrected



Right In: -7.258 ± 4.559 $\chi^2/\text{NDF}: 30.4/24$

Left Out: -9.411 ± 2.021 $\chi^2/\text{NDF}: 58.8/24$

Right Out: 10.597 ± 4.539 $\chi^2/\text{NDF}: 19.8/28$

Left In: 0.344 ± 2.100 $\chi^2/\text{NDF}: 29.9/22$

Left: -4.722 ± 1.456 $\chi^2/\text{NDF}: 99.9/47$

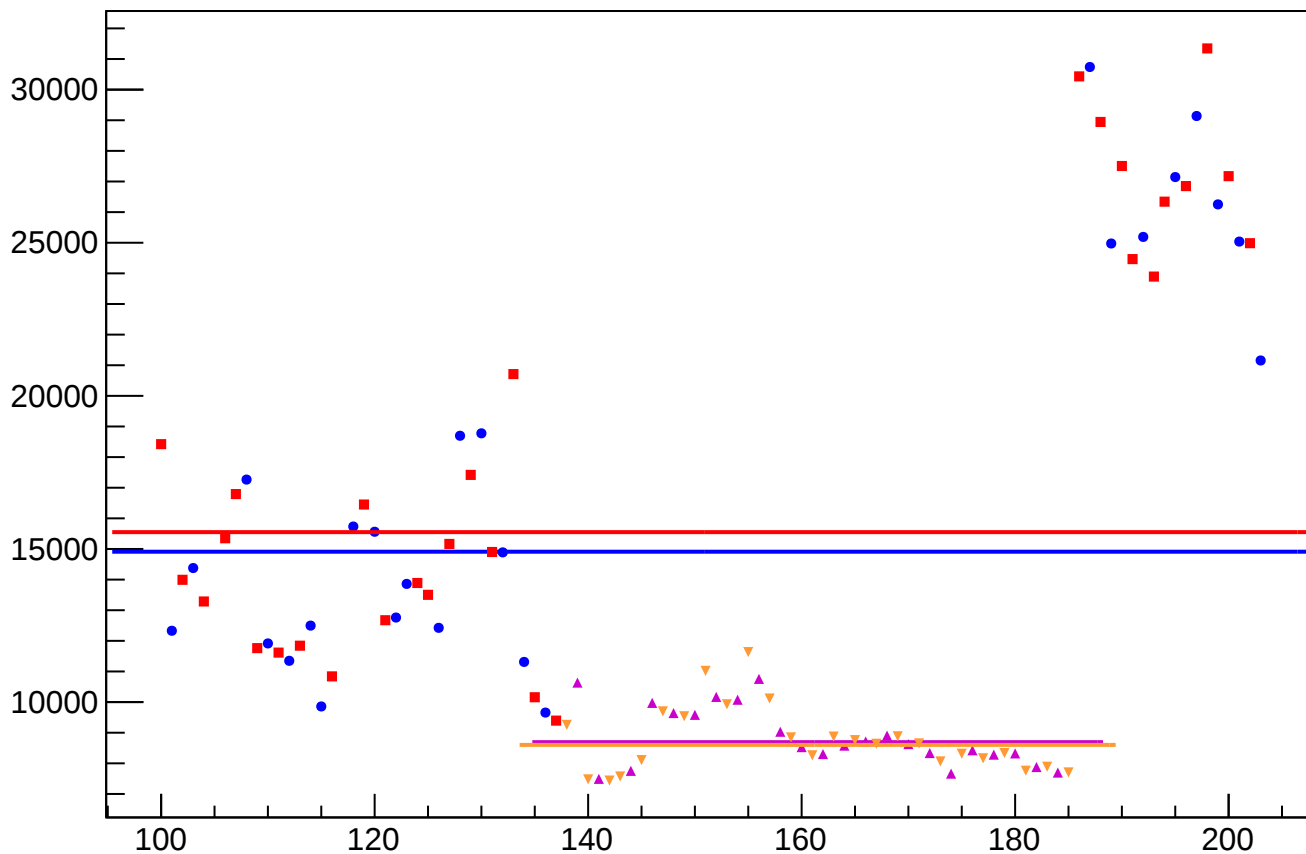
Right: 1.709 ± 3.217 $\chi^2/\text{NDF}: 57.9/53$

In: -0.987 ± 1.908 $\chi^2/\text{NDF}: 62.6/47$

Out: -6.101 ± 1.846 $\chi^2/\text{NDF}: 94.8/53$

All: -3.628 ± 1.327 $\chi^2/\text{NDF}: 161.1/101$

diff_bpm4eX_rms vs Slug, Sign Corrected



Right In: 14910.941 $\pm$ 3.224 χ^2 /NDF: 2872669.0/24

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

Right Out: 15549.856 $\pm$ 3.210 χ^2 /NDF: 3344614.1/28

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

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

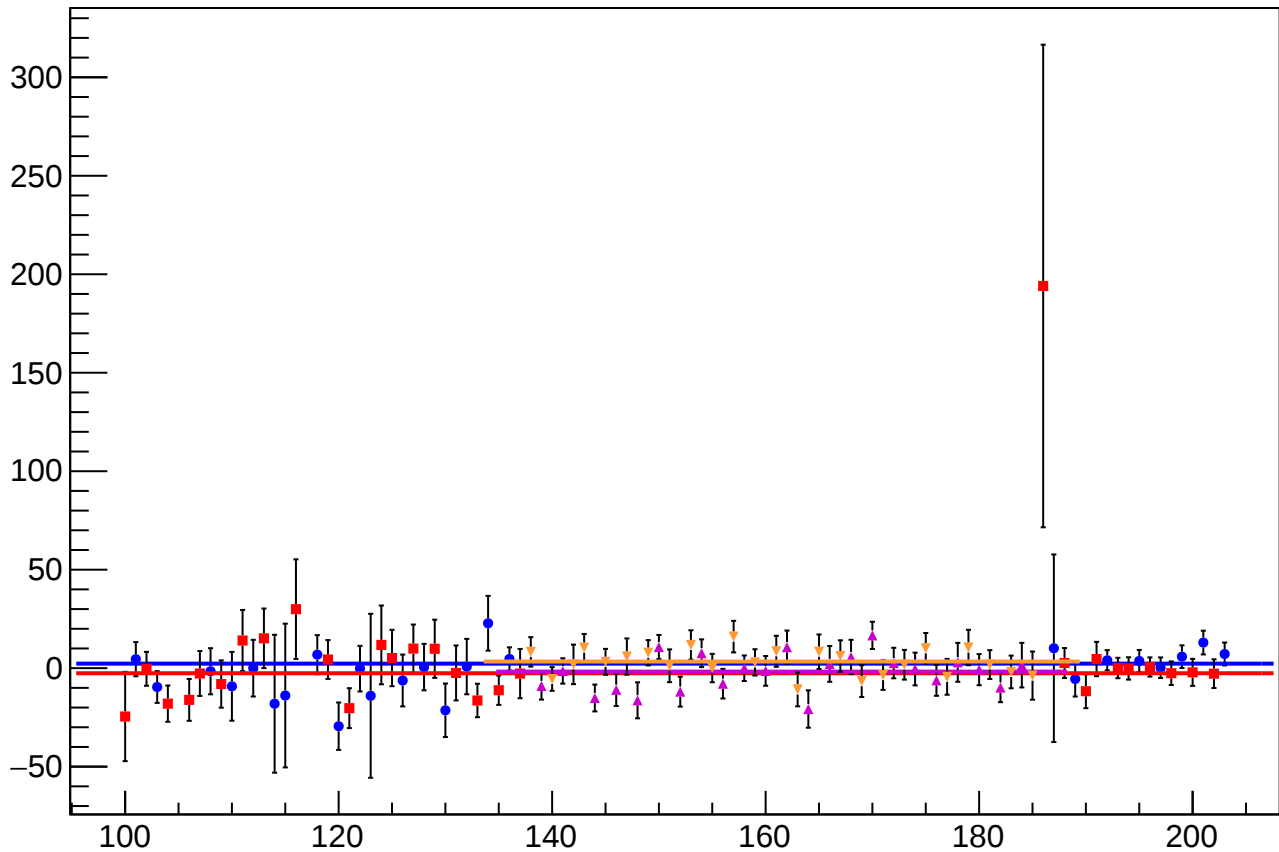
Right: 15231.818 $\pm$ 2.275 χ^2 /NDF: 6237008.1/53

In: 9780.207 $\pm$ 1.349 χ^2 /NDF: 6308273.9/47

Out: 9751.664 $\pm$ 1.306 χ^2 /NDF: 7693852.5/53

All: 9765.468 $\pm$ 0.938 χ^2 /NDF: 14002357.6/100

diff_bpm4eY_mean vs Slug, Sign Corrected



Right In: 2.301 ± 1.728 χ^2/NDF : 21.9/24

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

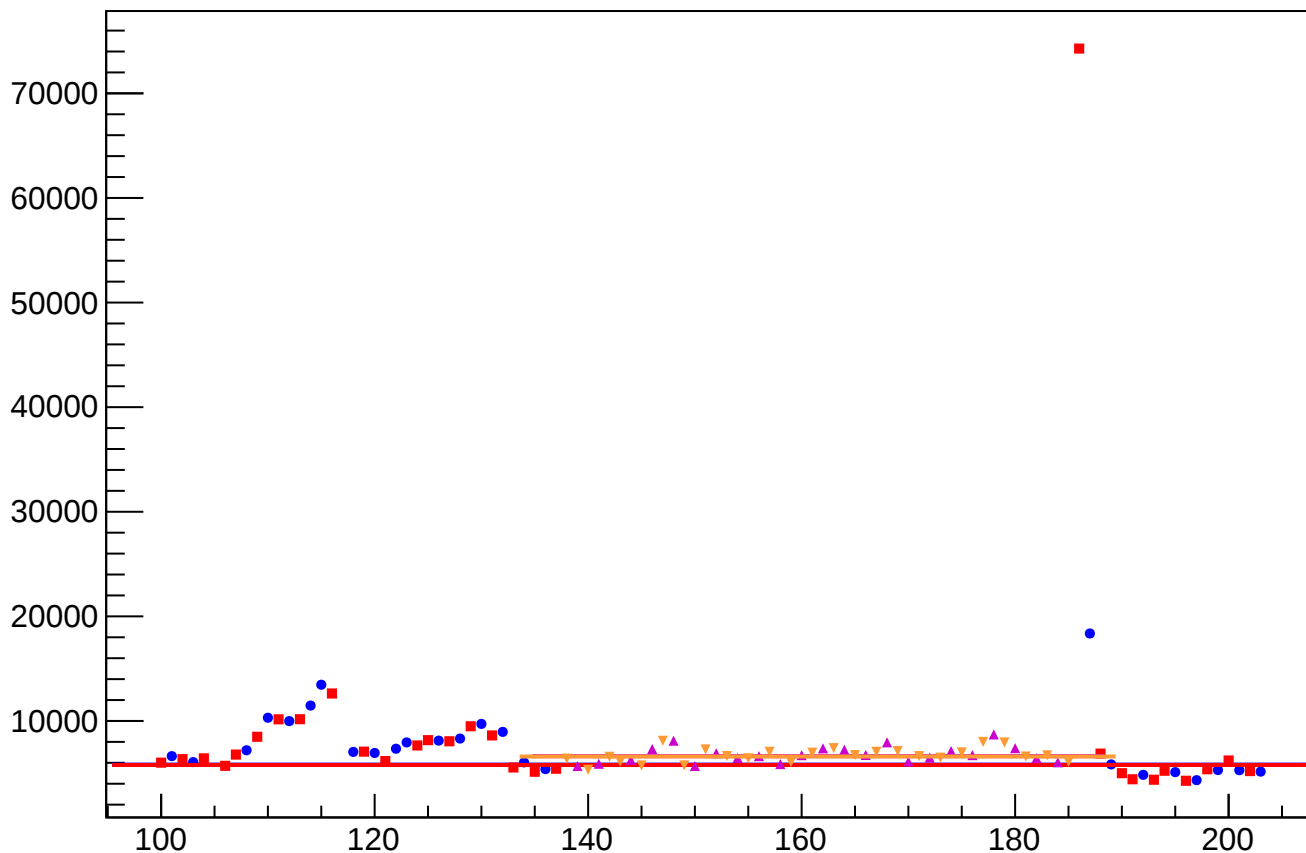
Right: -0.246 ± 1.195 χ^2/NDF : 51.7/53

In: 0.125 ± 1.177 χ^2/NDF : 58.4/47

Out: 0.588 ± 1.132 χ^2/NDF : 49.7/53

All: 0.366 ± 0.816 χ^2/NDF : 108.2/101

diff_bpm4eY_rms vs Slug, Sign Corrected



Right In: 5828.004+/-1.222 χ^2/NDF : 1460797.6/24

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

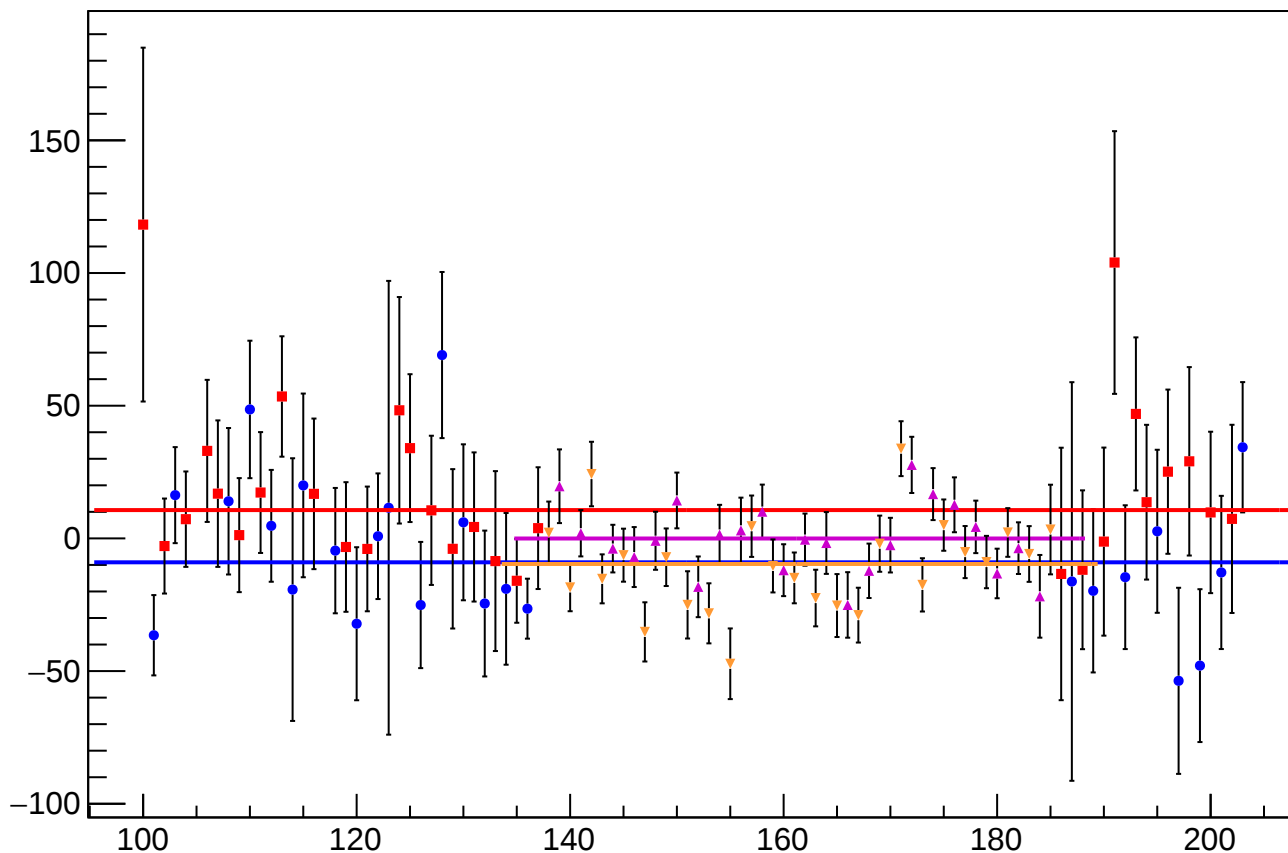
Right: 5809.914+/-0.845 χ^2/NDF : 3589728.7/53

In: 6261.964+/-0.832 χ^2/NDF : 2111460.9/47

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

All: 6242.559+/-0.577 χ^2/NDF : 4891658.6/100

diff_bpm4acX_mean vs Slug, Sign Corrected



Right In: -9.013 ± 4.909 χ^2/NDF : 29.7/24

Left Out: -9.640 ± 2.122 χ^2/NDF : 59.9/24

Right Out: 10.668 ± 4.937 χ^2/NDF : 20.1/28

Left In: -0.042 ± 2.200 χ^2/NDF : 30.8/22

Left: -5.015 ± 1.527 χ^2/NDF : 100.5/47

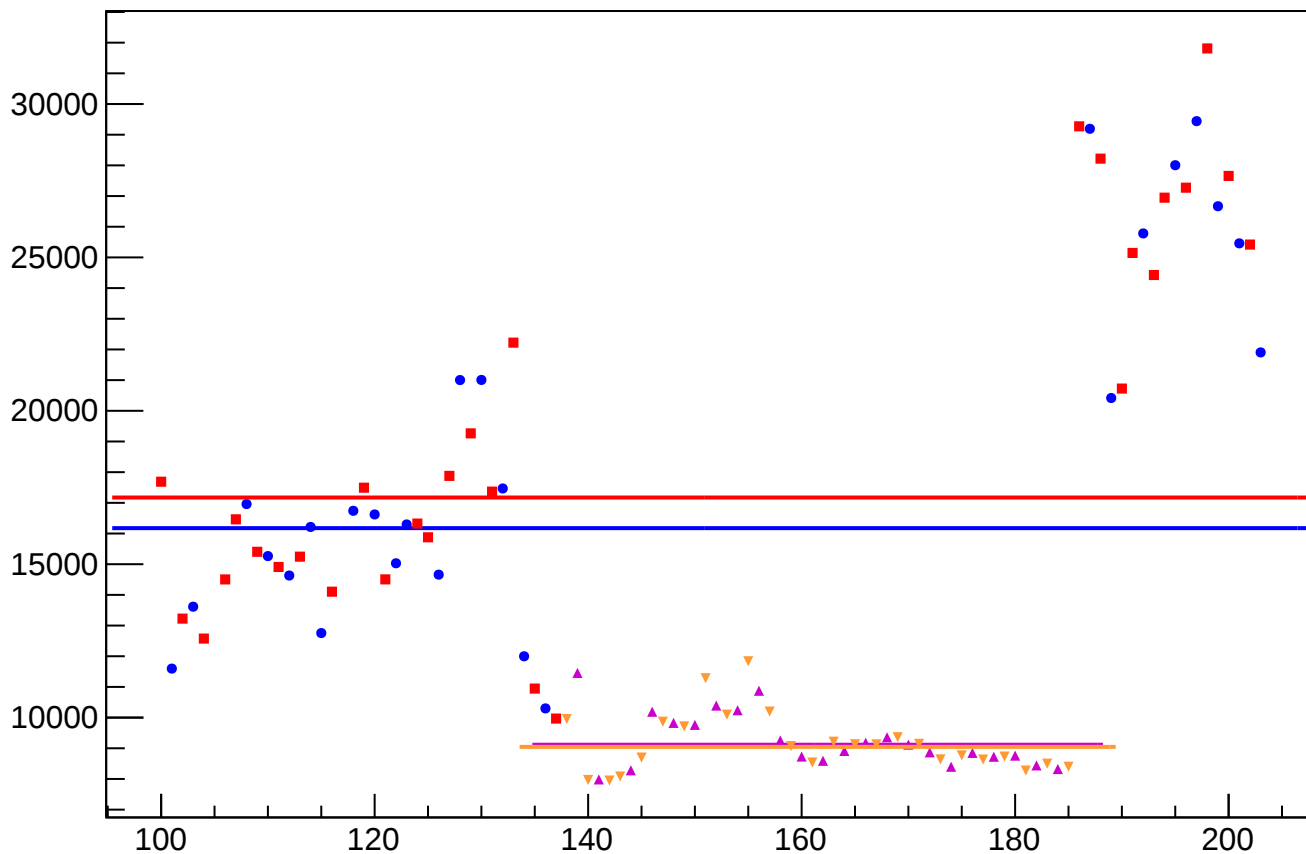
Right: 0.770 ± 3.481 χ^2/NDF : 57.8/53

In: -1.543 ± 2.008 χ^2/NDF : 63.2/47

Out: -6.474 ± 1.949 χ^2/NDF : 94.3/53

All: -4.081 ± 1.399 χ^2/NDF : 160.6/101

diff_bpm4acX_rms vs Slug, Sign Corrected



Right In: 16175.560 $\pm$ 3.471 χ^2/NDF : 2475106.3/24

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

Right Out: 17173.494 $\pm$ 3.491 χ^2/NDF : 2638666.5/28

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

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

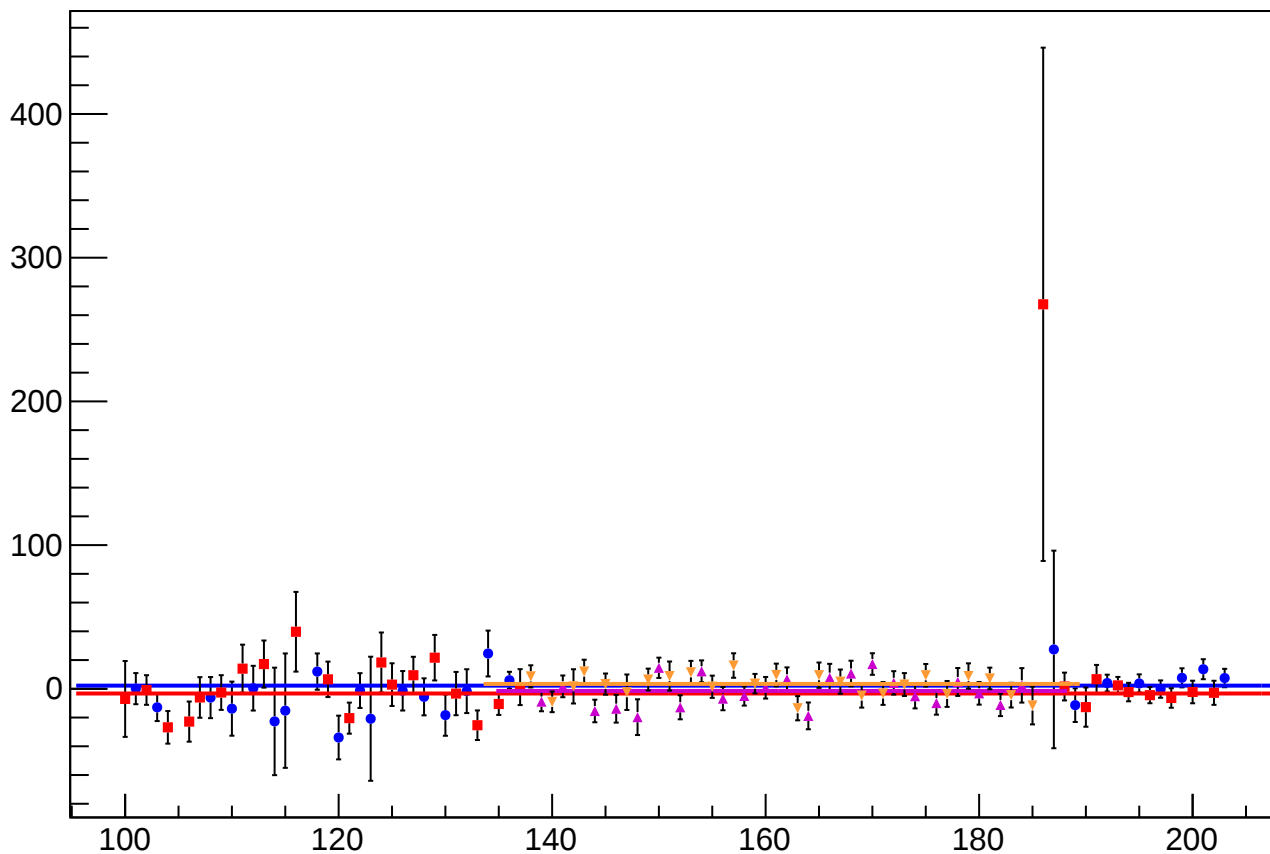
Right: 16671.642 $\pm$ 2.462 χ^2/NDF : 5154862.0/53

In: 10296.767 $\pm$ 1.420 χ^2/NDF :6192258.8/47

Out: 10312.847 $\pm$ 1.378 χ^2/NDF :7542040.0/53

All: 10305.044 $\pm$ 0.989 χ^2/NDF : 13734364.8

diff_bpm4acY_mean vs Slug, Sign Corrected



Right In: 2.206 ± 1.956 $\chi^2/\text{NDF}: 21.6/24$

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

Right Out: -3.266 ± 1.900 $\chi^2/\text{NDF}: 30.2/28$

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

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

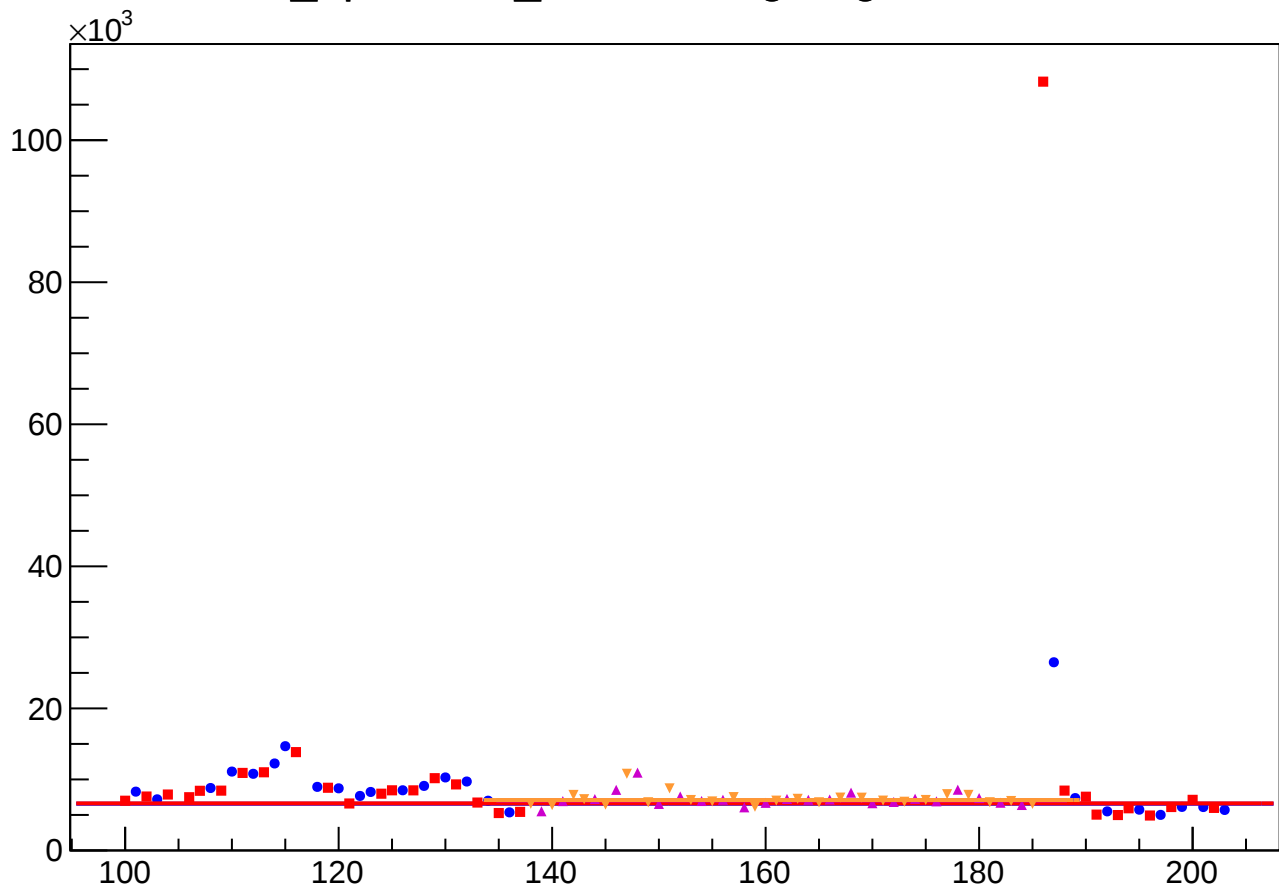
Right: -0.609 ± 1.363 $\chi^2/\text{NDF}: 55.8/53$

In: 0.117 ± 1.288 $\chi^2/\text{NDF}: 60.3/47$

Out: 0.492 ± 1.254 $\chi^2/\text{NDF}: 56.5/53$

All: 0.310 ± 0.898 $\chi^2/\text{NDF}: 116.8/101$

diff_bpm4acY_rms vs Slug, Sign Corrected



Right In: 6578.639 $\pm$ 1.383 χ^2/NDF : 1516954.0/24

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

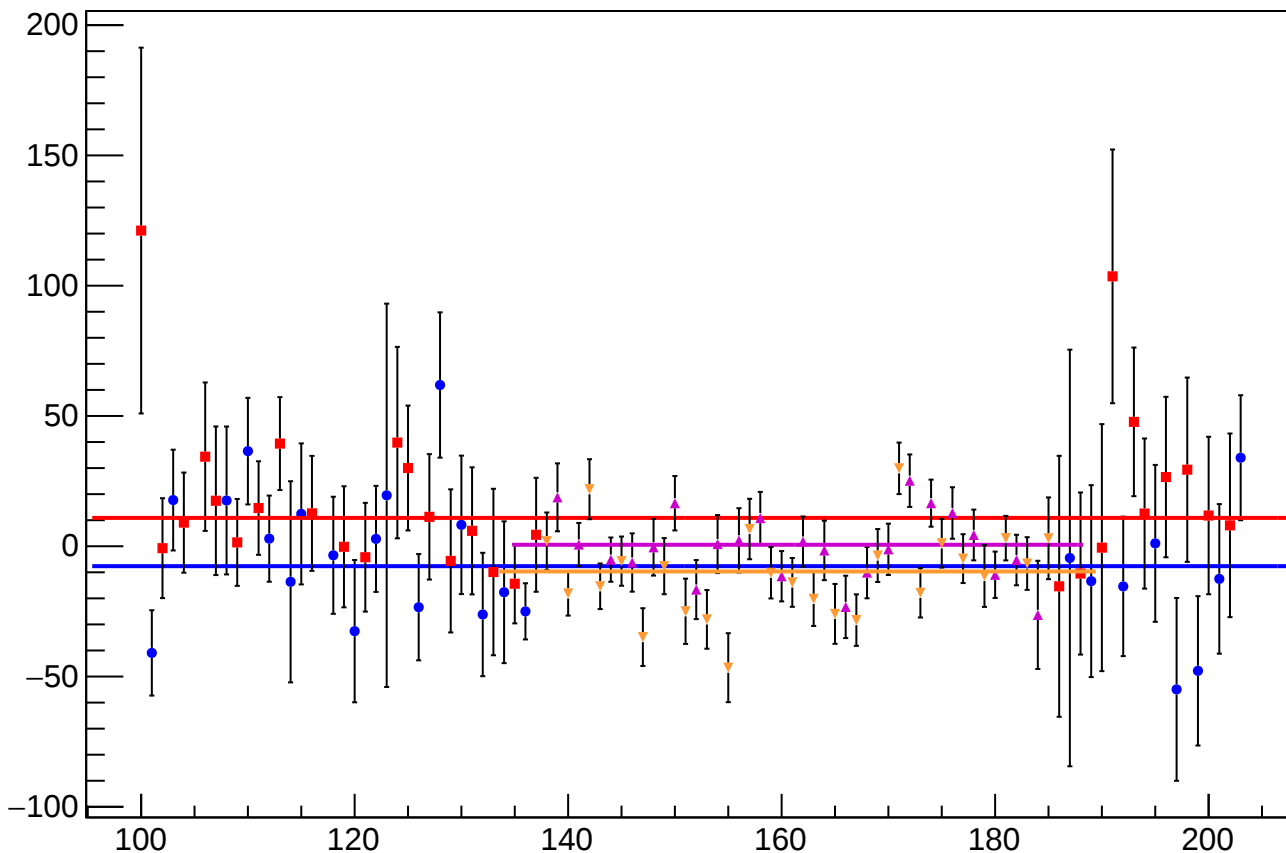
Right: 6603.712 $\pm$ 0.964 χ^2/NDF : 3614470.5/53

In: 6844.259 $\pm$ 0.910 χ^2/NDF : 2099441.2/47

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

All: 6868.927 $\pm$ 0.635 χ^2/NDF : 4648490.8/100

diff_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -7.645 $\pm$ 4.618 χ^2/NDF : 31.1/24

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

Right Out: 10.883 $\pm$ 4.601 χ^2/NDF : 18.8/28

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

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

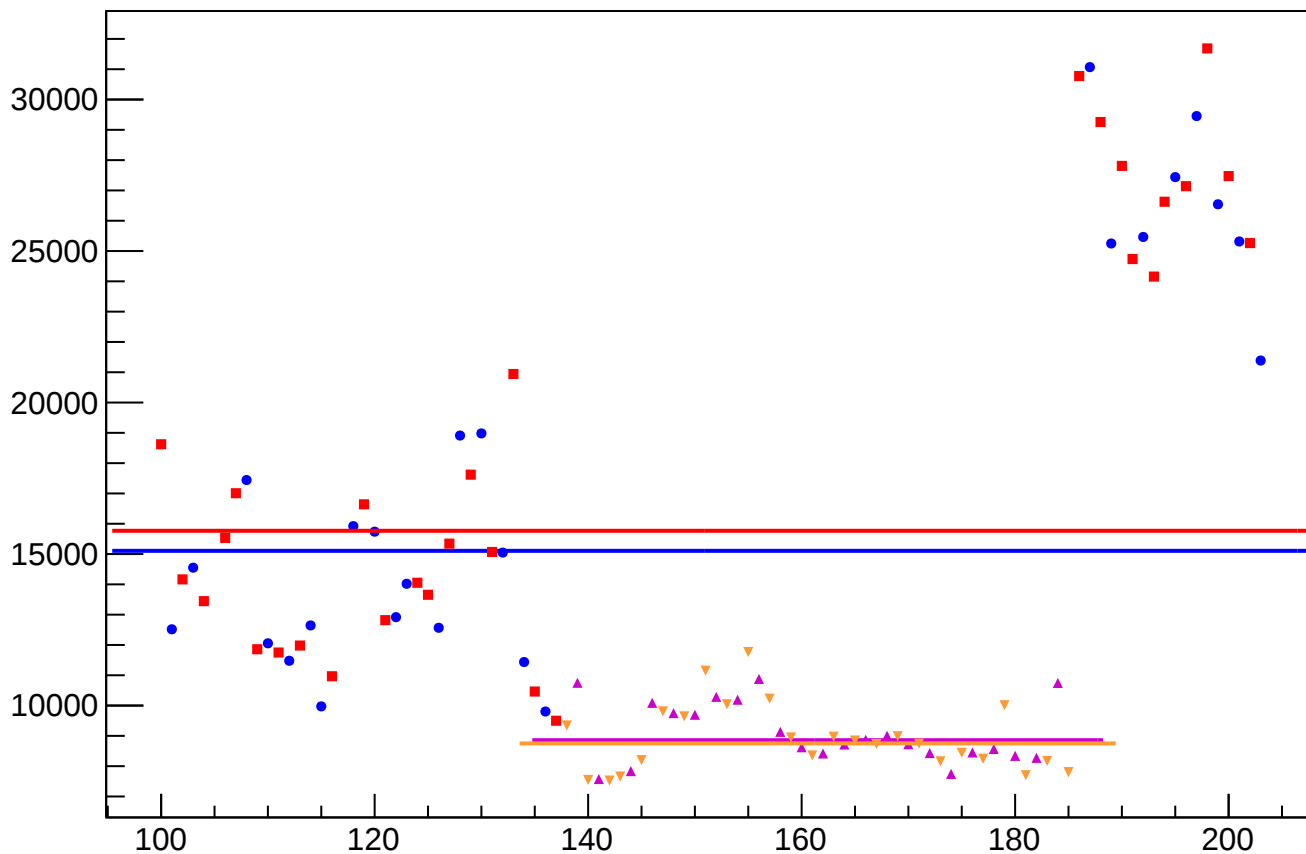
Right: 1.654 $\pm$ 3.260 χ^2/NDF : 58.0/53

In: -0.891 $\pm$ 1.944 χ^2/NDF : 63.4/47

Out: -6.236 $\pm$ 1.881 χ^2/NDF : 93.4/53

All: -3.653 $\pm$ 1.352 χ^2/NDF : 160.7/101

diff_bpm4ecX_rms vs Slug, Sign Corrected



Right In: 15106.253 $\pm$ 3.266 χ^2 /NDF: 2854440.0/24

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

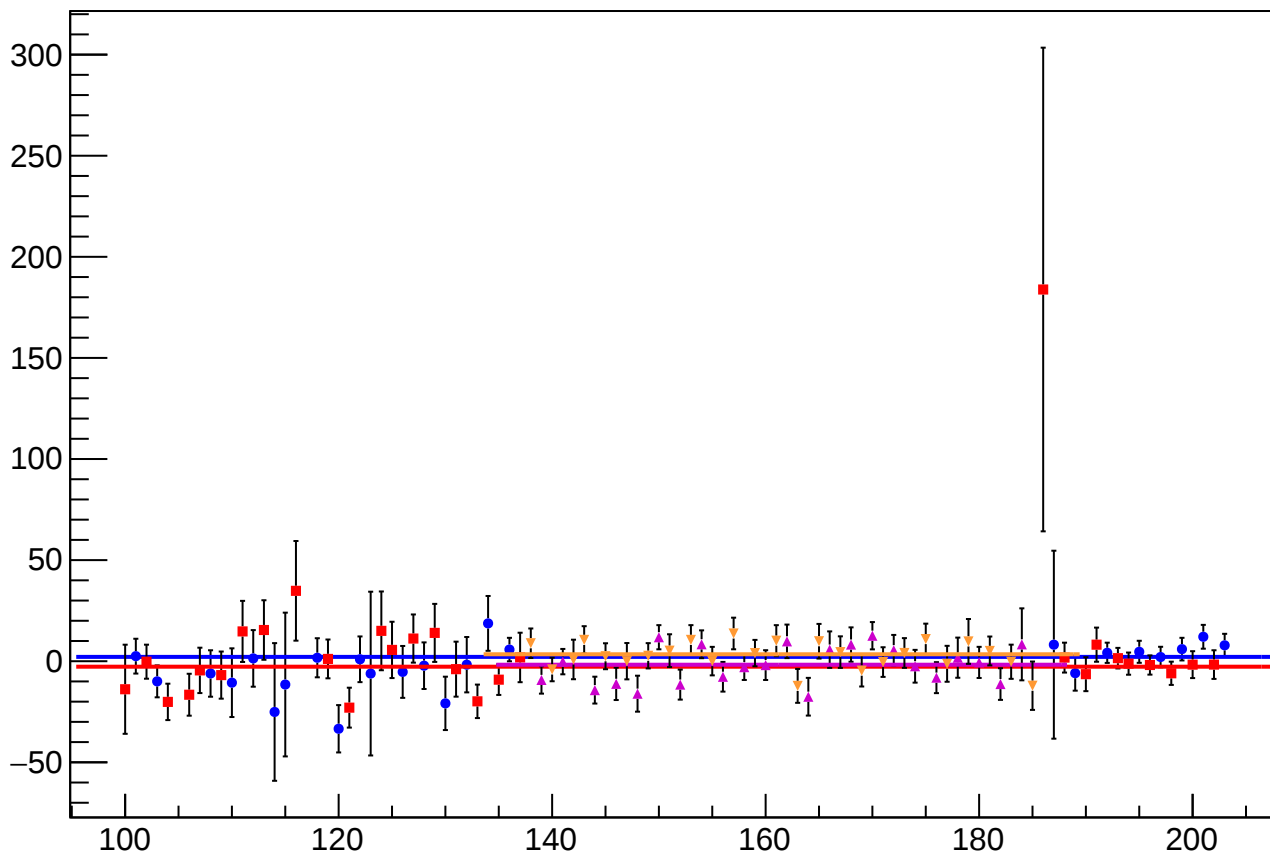
Right: 15438.548 $\pm$ 2.305 χ^2 /NDF: 6187723.2/53

In: 9964.964 $\pm$ 1.375 χ^2 /NDF: 6228643.7/47

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

All: 9943.240 $\pm$ 0.956 χ^2 /NDF: 13881366.3/100

diff_bpm4ecY_mean vs Slug, Sign Corrected



Right In: 2.139 ± 1.686 $\chi^2/\text{NDF}: 24.6/24$

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 $\chi^2/\text{NDF}: 55.3/47$

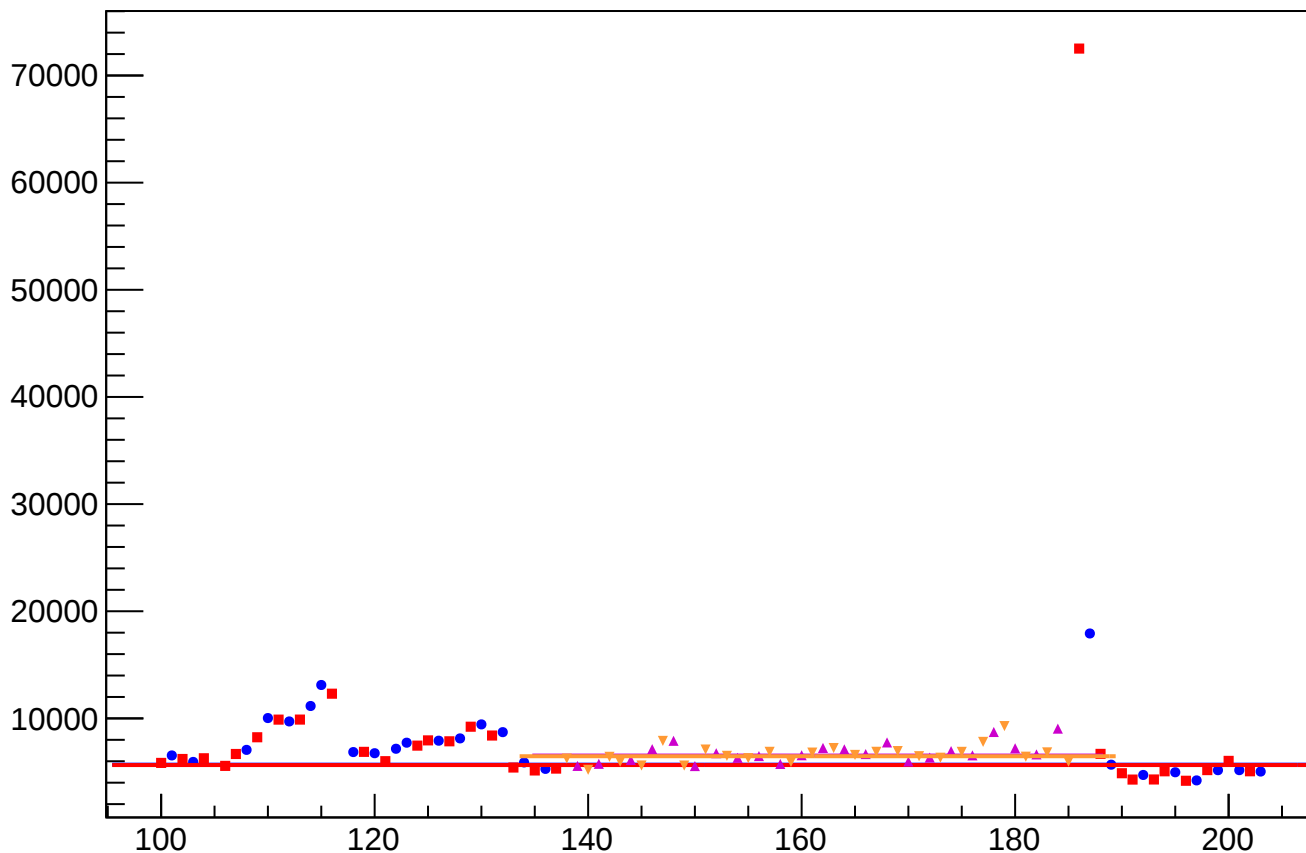
Right: -0.393 ± 1.166 $\chi^2/\text{NDF}: 59.3/53$

In: 0.084 ± 1.155 $\chi^2/\text{NDF}: 61.0/47$

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

All: 0.317 ± 0.800 $\chi^2/\text{NDF}: 115.4/101$

diff_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 5682.062 $\pm$ 1.192 χ^2 /NDF: 1467283.2/24

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

Right Out: 5645.566 $\pm$ 1.141 χ^2 /NDF: 2119417.7/28

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

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

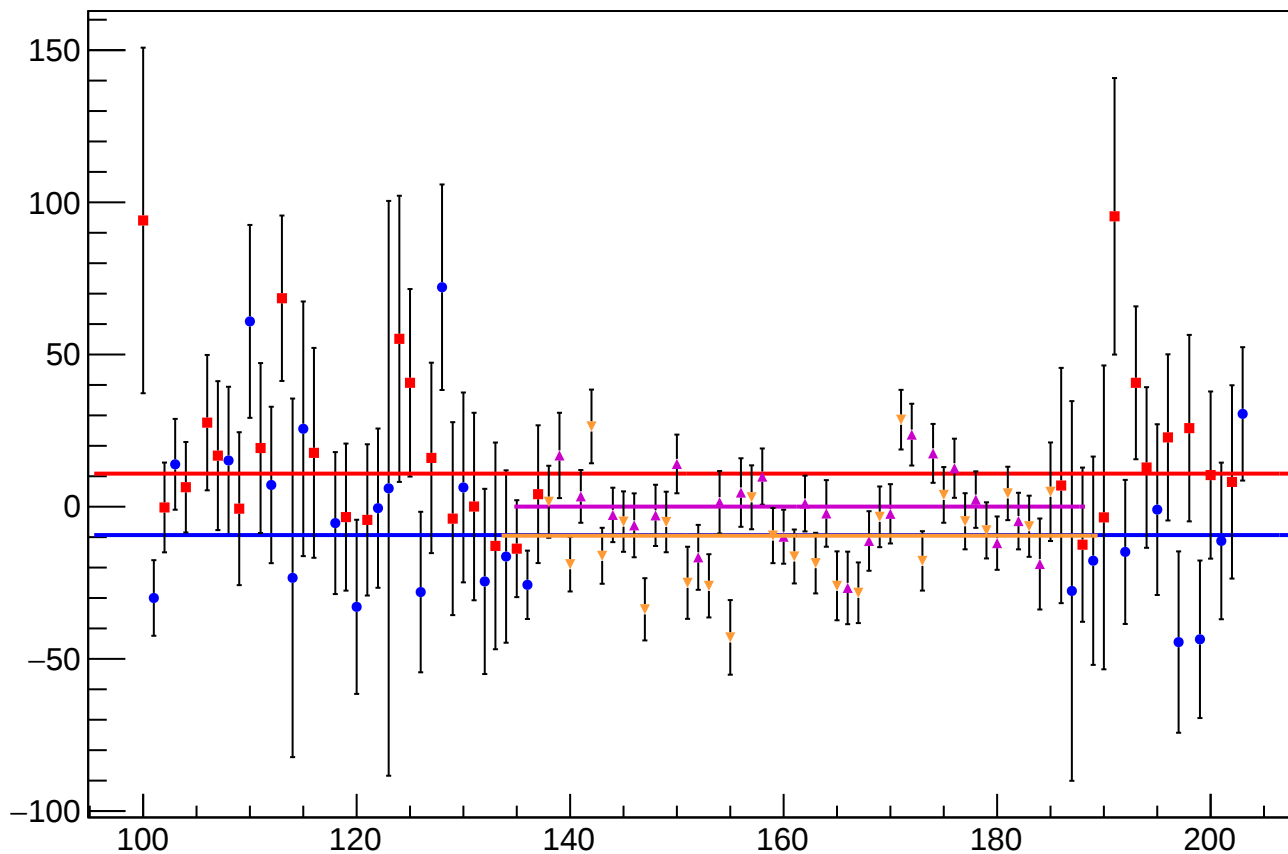
Right: 5663.009 $\pm$ 0.824 χ^2 /NDF: 3587190.1/53

In: 6132.486 $\pm$ 0.817 χ^2 /NDF: 2200957.5/47

Out: 6080.166 $\pm$ 0.784 χ^2 /NDF: 2881585.7/53

All: 6105.247 $\pm$ 0.566 χ^2 /NDF: 5084679.1/100

diff_bpm1X_mean vs Slug, Sign Corrected



Right In: -9.324 ± 4.732 χ^2/NDF : 28.9/24

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

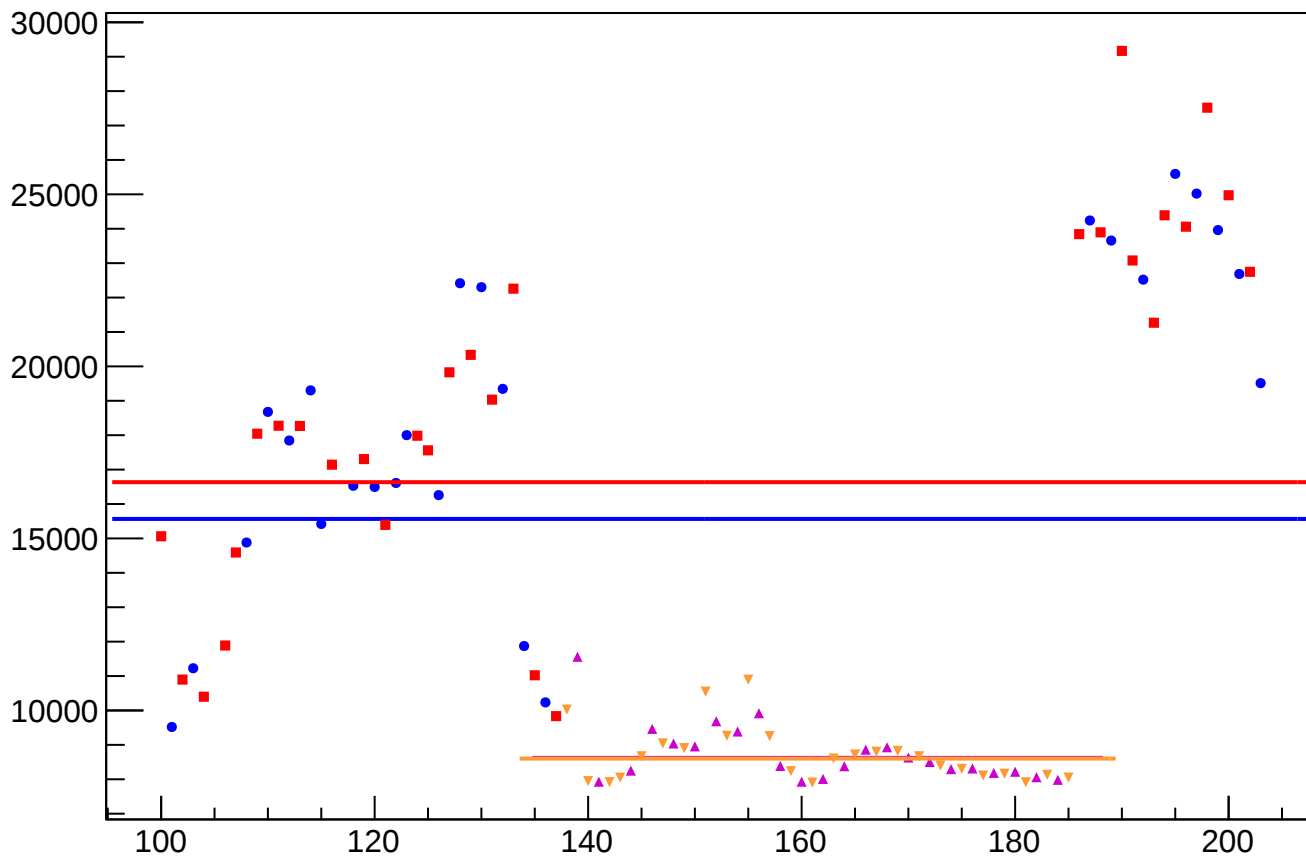
Right: 0.665 ± 3.364 χ^2/NDF : 58.3/53

In: -1.487 ± 1.904 χ^2/NDF : 62.0/47

Out: -6.453 ± 1.857 χ^2/NDF : 95.4/53

All: -4.032 ± 1.329 χ^2/NDF : 160.9/101

diff_bpm1X_rms vs Slug, Sign Corrected



Right In: 15566.403 $\pm$ 3.346 χ^2 /NDF: 2598973.0/24

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

Right Out: 16634.386 $\pm$ 3.382 χ^2 /NDF: 2636160.3/28

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

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

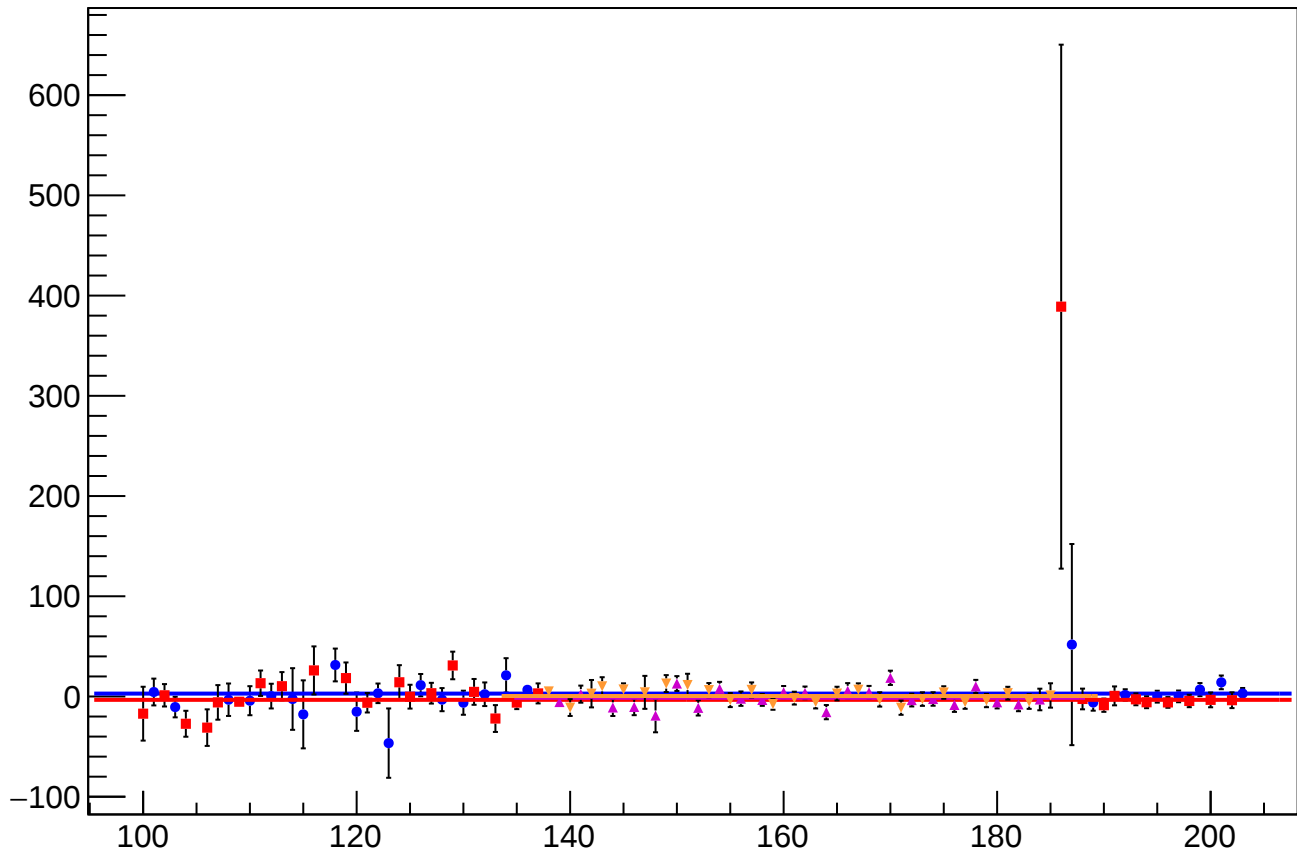
Right: 16094.744 $\pm$ 2.379 χ^2 /NDF: 5285530.0/53

In: 9746.296 $\pm$ 1.346 χ^2 /NDF: 6439666.0/47

Out: 9813.126 $\pm$ 1.313 χ^2 /NDF: 7676266.3/53

All: 9780.546 $\pm$ 0.940 χ^2 /NDF: 14117195.0/100

diff_bpm1Y_mean vs Slug, Sign Corrected



Right In: 2.889 $\pm$ 1.787 χ^2/NDF : 16.8/24

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

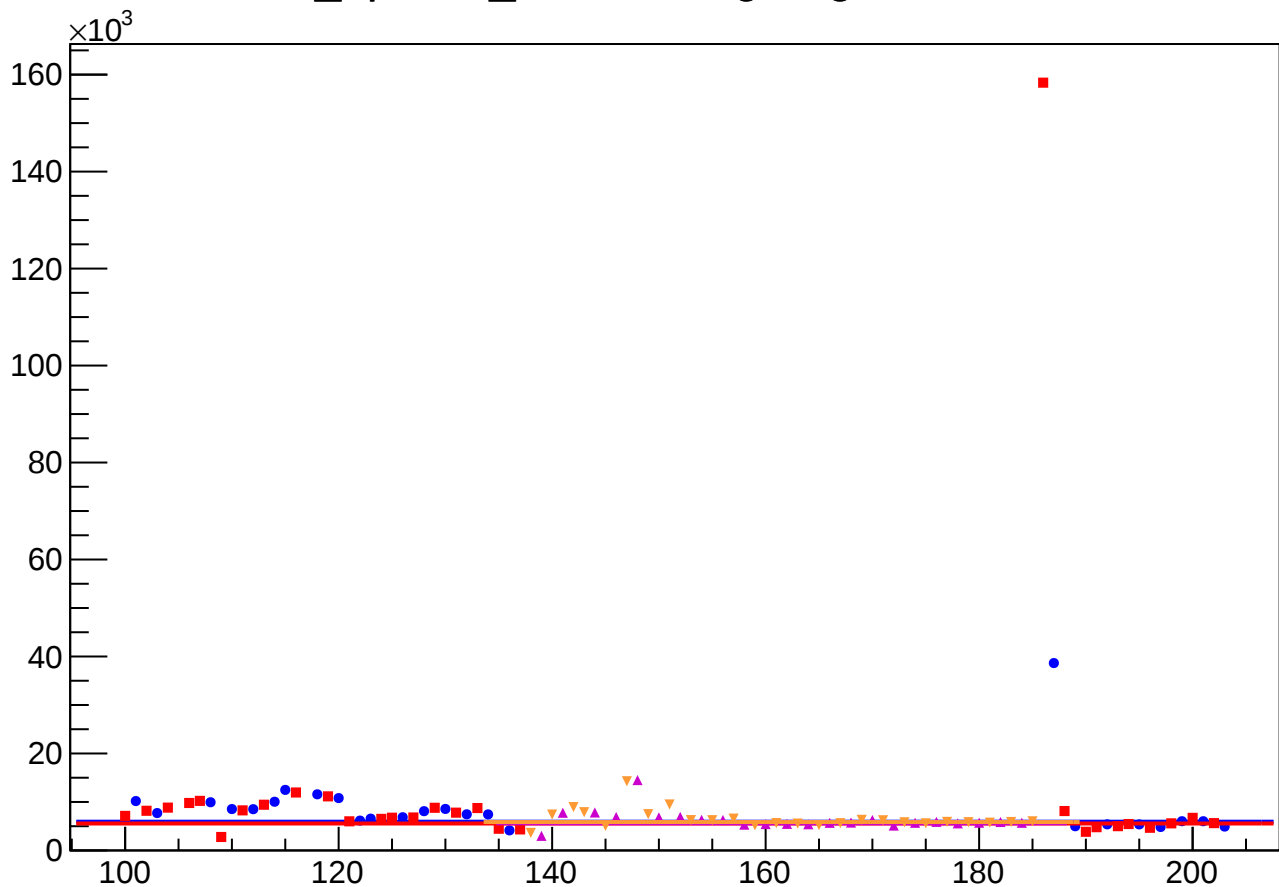
Right: -0.462 $\pm$ 1.216 χ^2/NDF : 50.0/53

In: 0.303 $\pm$ 1.105 χ^2/NDF :53.2/47

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

All: -0.435 $\pm$ 0.772 χ^2/NDF : 103.4/101

diff_bpm1Y_rms vs Slug, Sign Corrected



Right In: 5931.040 $\pm$ 1.264 χ^2/NDF : 1969630.1/24

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

Right Out: 5559.007 $\pm$ 1.173 χ^2/NDF : 3383260.6/28

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

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

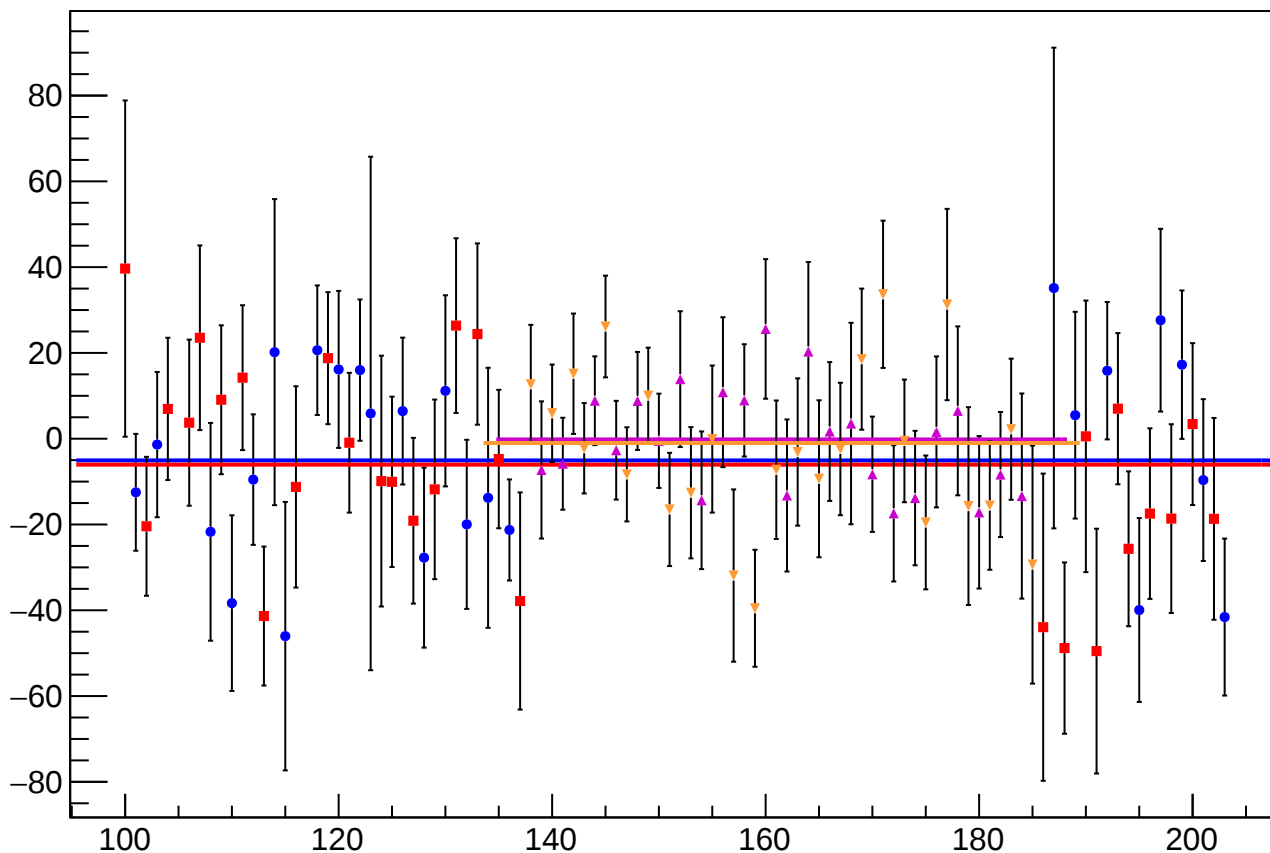
Right: 5731.175 $\pm$ 0.860 χ^2/NDF : 5399438.7/53

In: 5724.635 $\pm$ 0.781 χ^2/NDF : 4102557.8/47

Out: 5732.018 $\pm$ 0.763 χ^2/NDF : 5112277.9/53

All: 5728.417 $\pm$ 0.546 χ^2/NDF : 9214881.4/100

diff_bpm11X_mean vs Slug, Sign Corrected



Right In: -5.062 $\pm$ 3.826 χ^2/NDF : 29.4/24

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

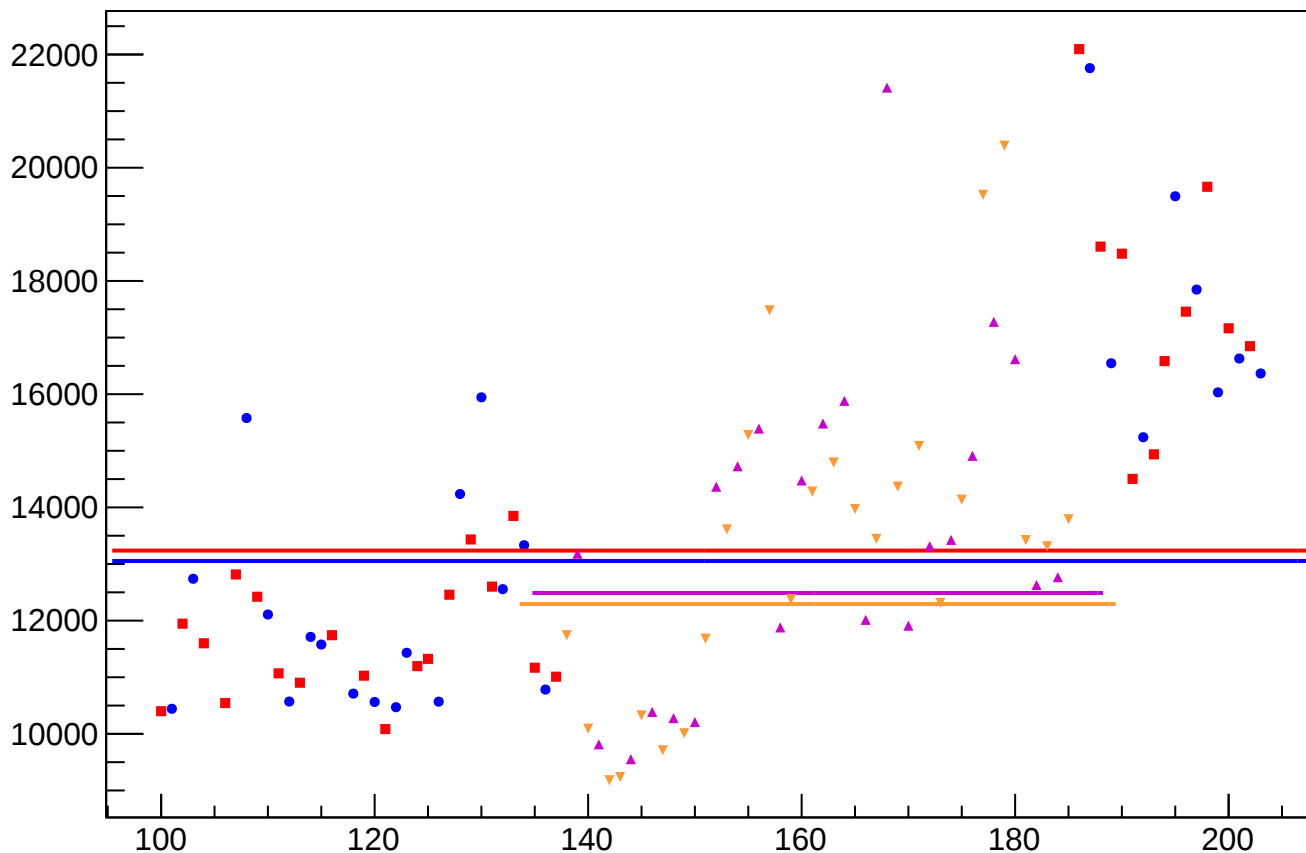
Right: -5.575 $\pm$ 2.659 χ^2/NDF : 61.9/53

In: -2.085 $\pm$ 2.393 χ^2/NDF : 42.8/47

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

All: -2.541 $\pm$ 1.659 χ^2/NDF : 109.9/101

diff_bpm11X_rms vs Slug, Sign Corrected



Right In: 13054.072 $\pm$ 2.706

χ^2/NDF : 1058827.5/24

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: 13148.894 $\pm$ 1.880

χ^2/NDF : 2237909.2/53

Right Out: 13237.496 $\pm$ 2.615

χ^2/NDF : 1176705.8/28

In: 12709.949 $\pm$ 1.692

χ^2/NDF : 2439884.3/47

Out: 12658.676 $\pm$ 1.628

χ^2/NDF : 2759211.4/53

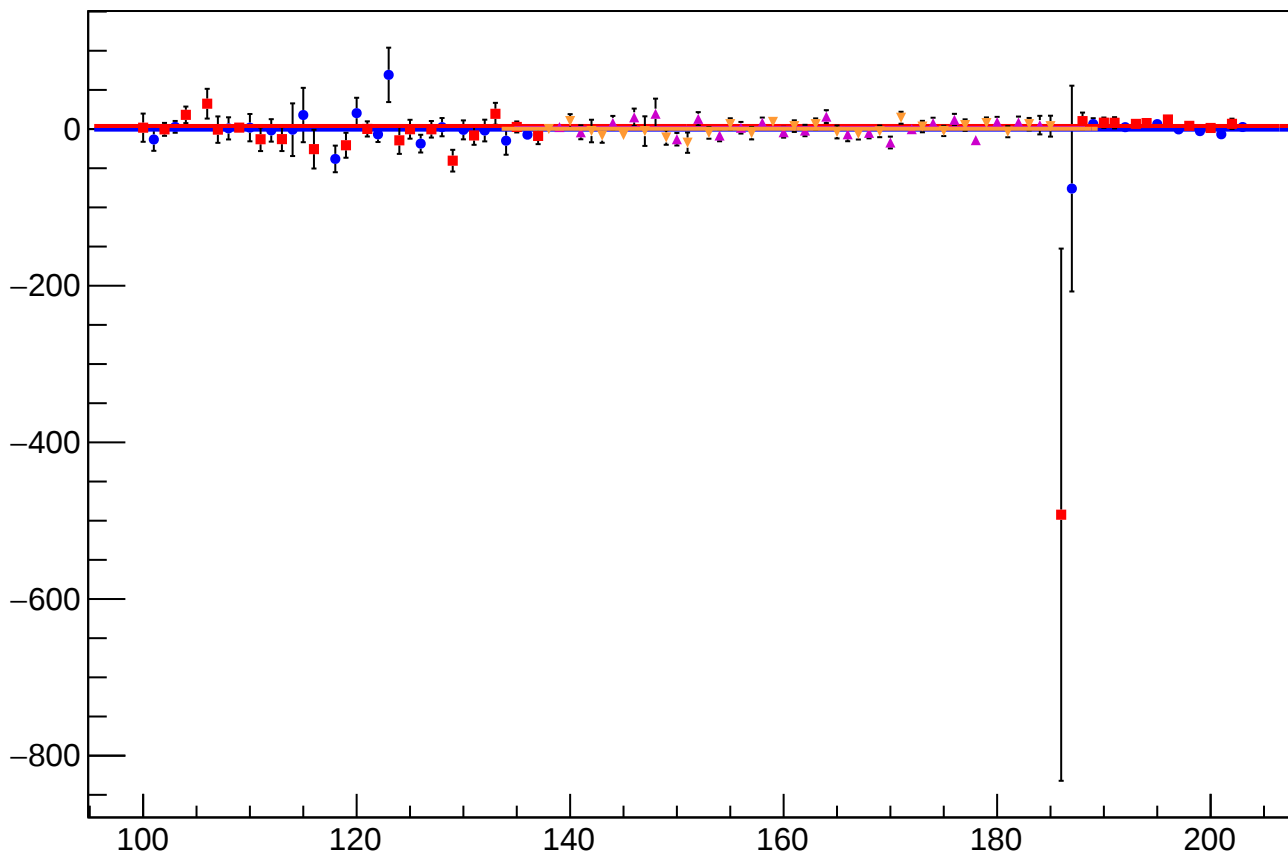
Left In: 12488.821 $\pm$ 2.169

χ^2/NDF : 1354485.4/22

All: 12683.319 $\pm$ 1.173

χ^2/NDF : 5199572.4/100

diff_bpm11Y_mean vs Slug, Sign Corrected



Right In: -0.723 ± 1.579 χ^2/NDF : 22.4/24

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

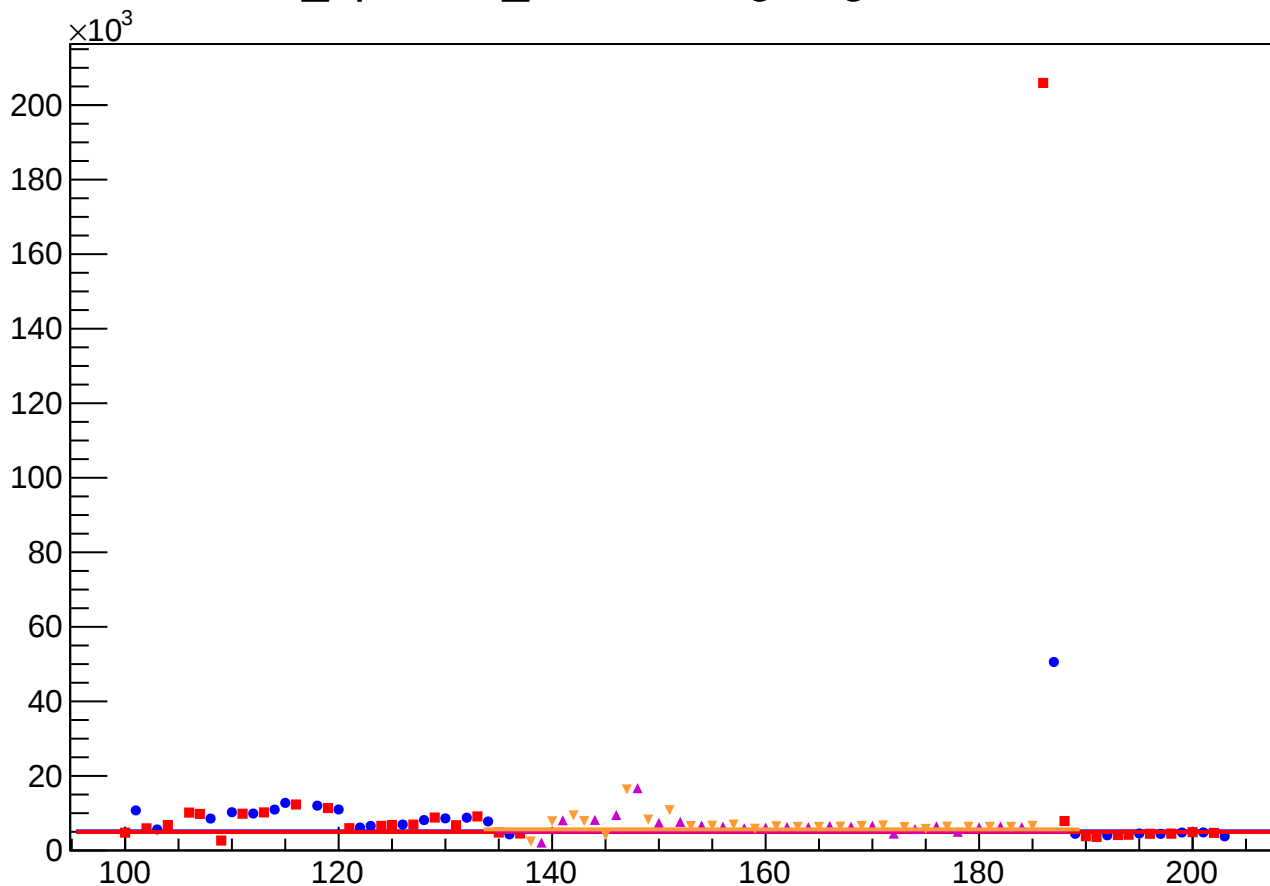
Right: 1.740 ± 1.087 χ^2/NDF : 60.6/53

In: 0.408 ± 1.042 χ^2/NDF : 57.3/47

Out: 2.107 ± 1.036 χ^2/NDF : 55.8/53

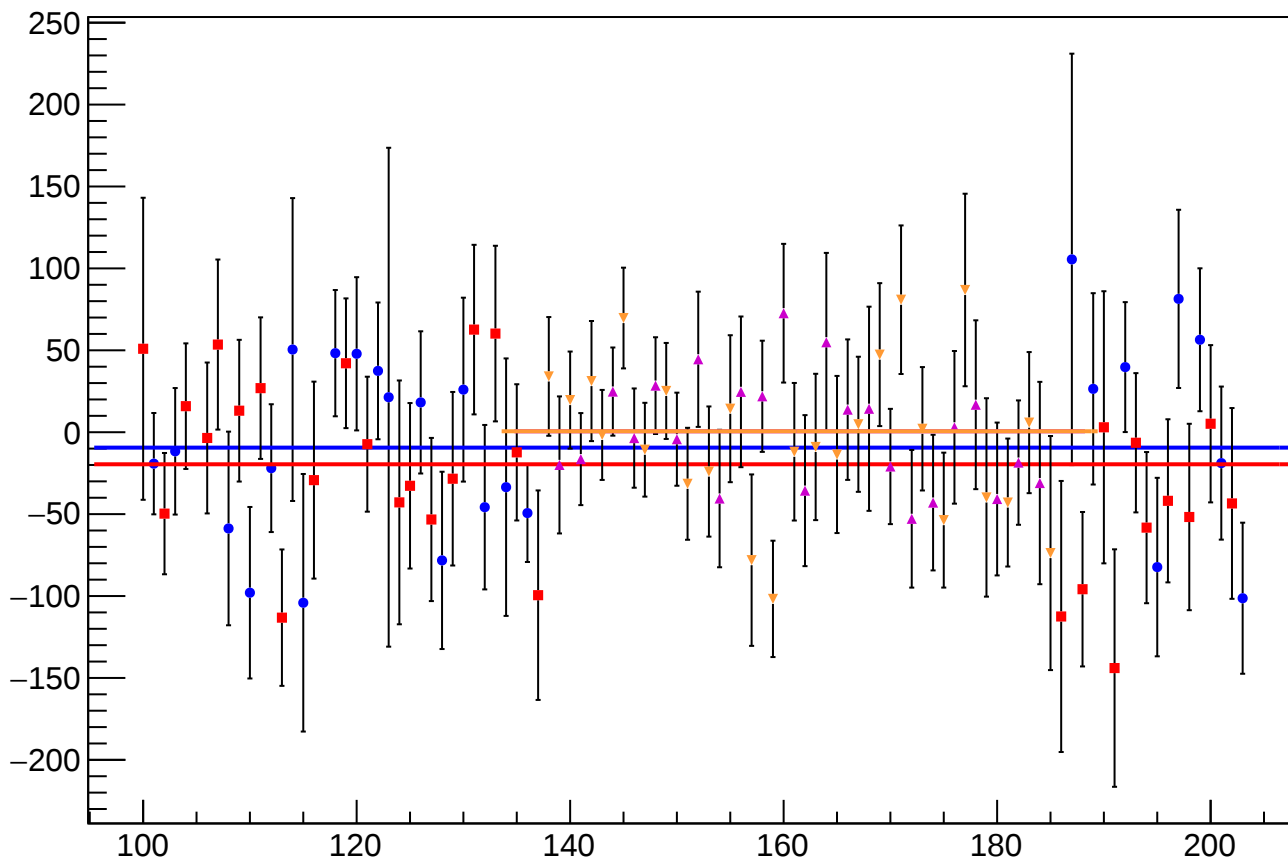
All: 1.262 ± 0.735 χ^2/NDF : 114.5/101

diff_bpm11Y_rms vs Slug, Sign Corrected



Right In: 5126.447 $\pm$ 1.117	χ^2/NDF : 2752485.5/24	Left: 5409.966 $\pm$ 0.705	χ^2/NDF : 9587556.1/47
Left Out: 5655.639 $\pm$ 1.014	χ^2/NDF : 4124124.3/24	Right: 5032.272 $\pm$ 0.769	χ^2/NDF : 6257496.2/53
Right Out: 4947.472 $\pm$ 1.060	χ^2/NDF : 3491492.4/28	In: 5157.122 $\pm$ 0.736	χ^2/NDF : 8103874.8/47
Left In: 5180.743 $\pm$ 0.980	χ^2/NDF : 5350053.6/22	Out: 5316.970 $\pm$ 0.733	χ^2/NDF : 7848685.4/53
		All: 5237.454 $\pm$ 0.519	χ^2/NDF : 15976233.6/100

diff_bpm12X_mean vs Slug, Sign Corrected



Right In: -9.404 ± 9.517 χ^2/NDF : 29.1/24

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

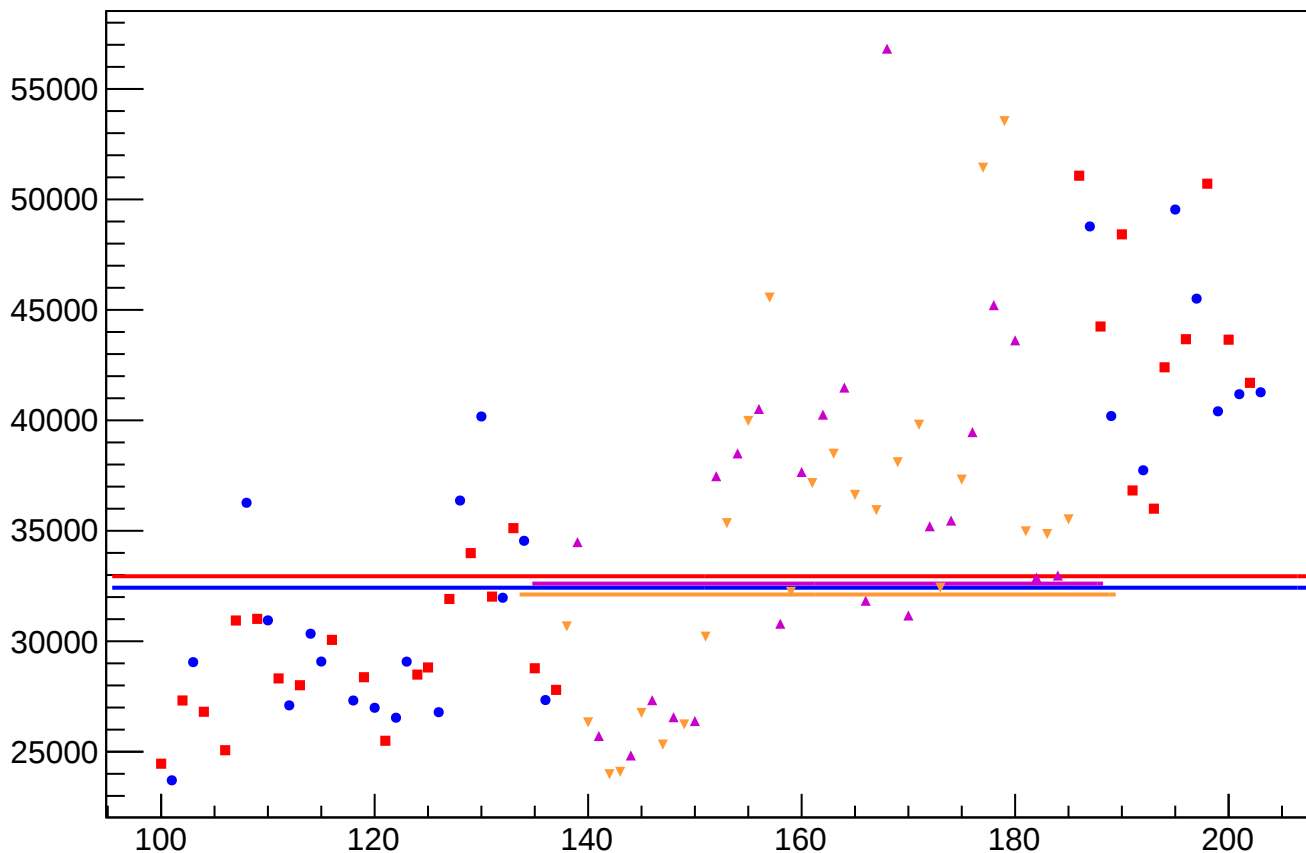
Right: -14.654 ± 6.618 χ^2/NDF : 58.9/53

In: -3.572 ± 6.130 χ^2/NDF : 44.0/47

Out: -7.700 ± 5.903 χ^2/NDF : 63.0/53

All: -5.714 ± 4.252 χ^2/NDF : 107.3/101

diff_bpm12X_rms vs Slug, Sign Corrected



Right In: 32424.044+/-6.729

χ^2/NDF : 1100401.6/24

Left Out: 32117.184+/-5.438

χ^2/NDF : 1536740.0/24

Right Out: 32942.779+/-6.511

χ^2/NDF : 1199780.6/28

Left In: 32610.108+/-5.667

χ^2/NDF : 1398475.8/22

Left: 32353.483+/-3.924 χ^2/NDF : 2939154.5/47

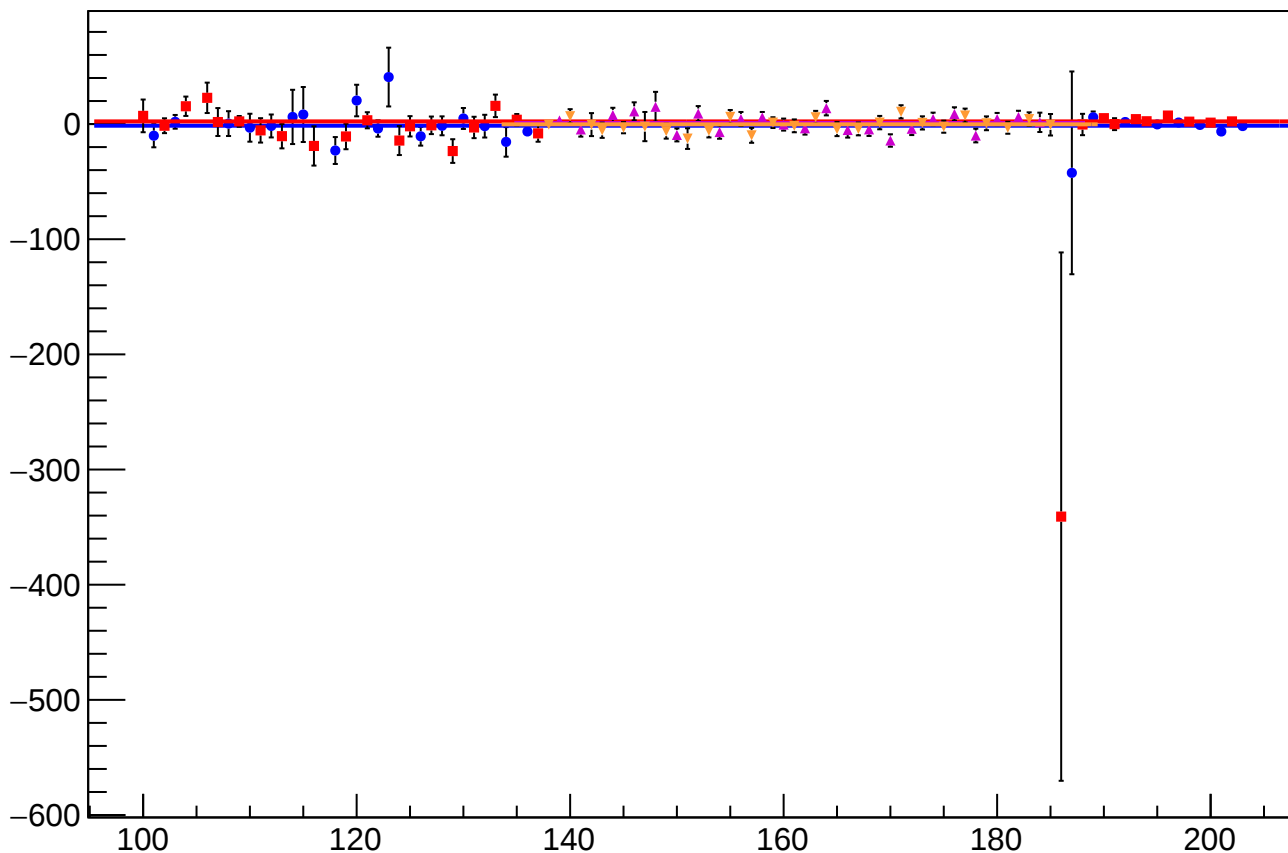
Right: 32691.962+/-4.679 χ^2/NDF : 2303251.1/53

In: 32532.905+/-4.335 χ^2/NDF : 2499324.7/47

Out: 32456.430+/-4.174 χ^2/NDF : 2745991.5/53

All: 32493.222+/-3.007 χ^2/NDF : 5245477.7/100

diff_bpm12Y_mean vs Slug, Sign Corrected



Right In: -1.434 ± 1.057 χ^2/NDF : 21.4/24

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

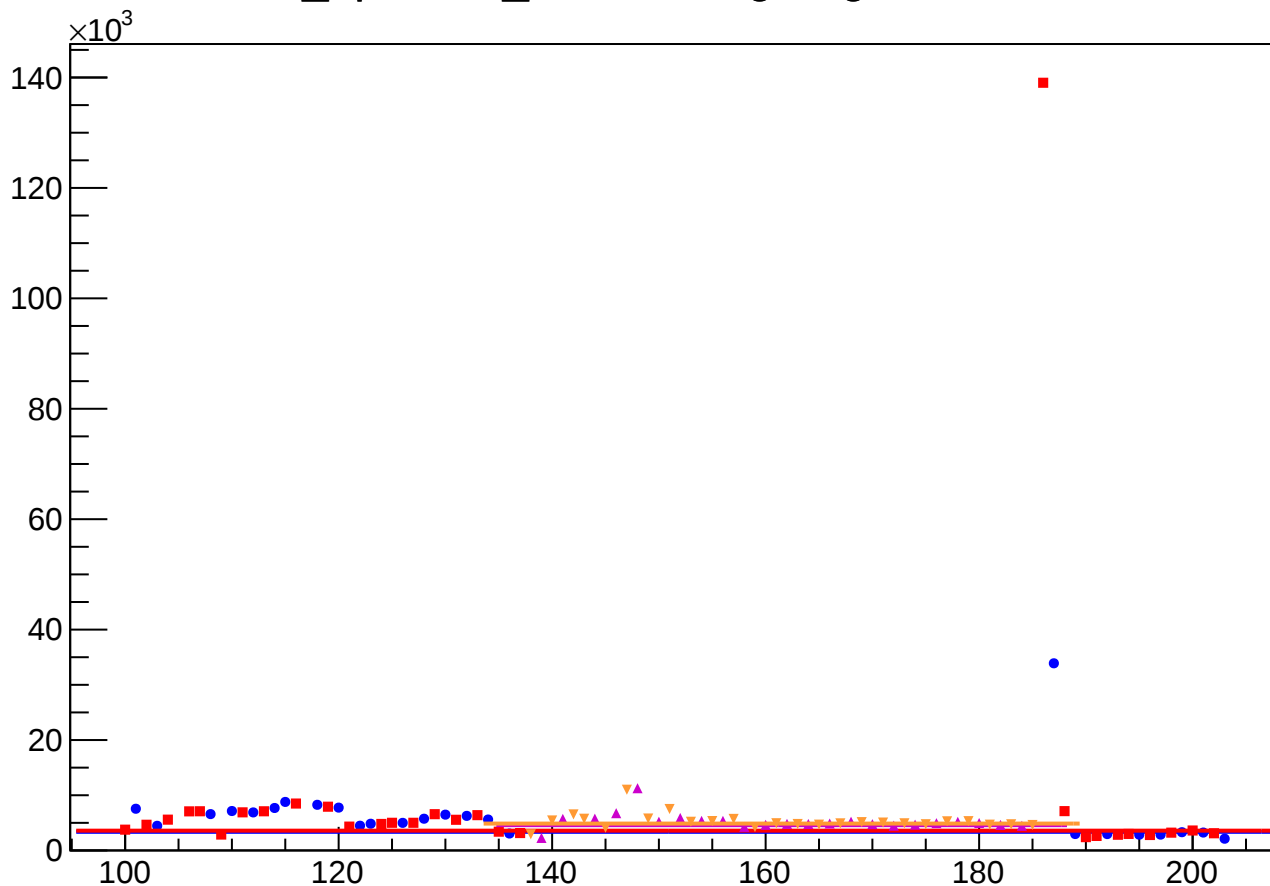
Right: 0.406 ± 0.754 χ^2/NDF : 56.7/53

In: -0.357 ± 0.779 χ^2/NDF : 59.8/47

Out: 1.139 ± 0.793 χ^2/NDF : 49.7/53

All: 0.378 ± 0.556 χ^2/NDF : 111.3/101

diff_bpm12Y_rms vs Slug, Sign Corrected



Right In: 3373.892 ± 0.748 $\chi^2/\text{NDF}: 3459677.0/24$

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

Right Out: 3584.748 ± 0.762 $\chi^2/\text{NDF}: 3553926.4/28$

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

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

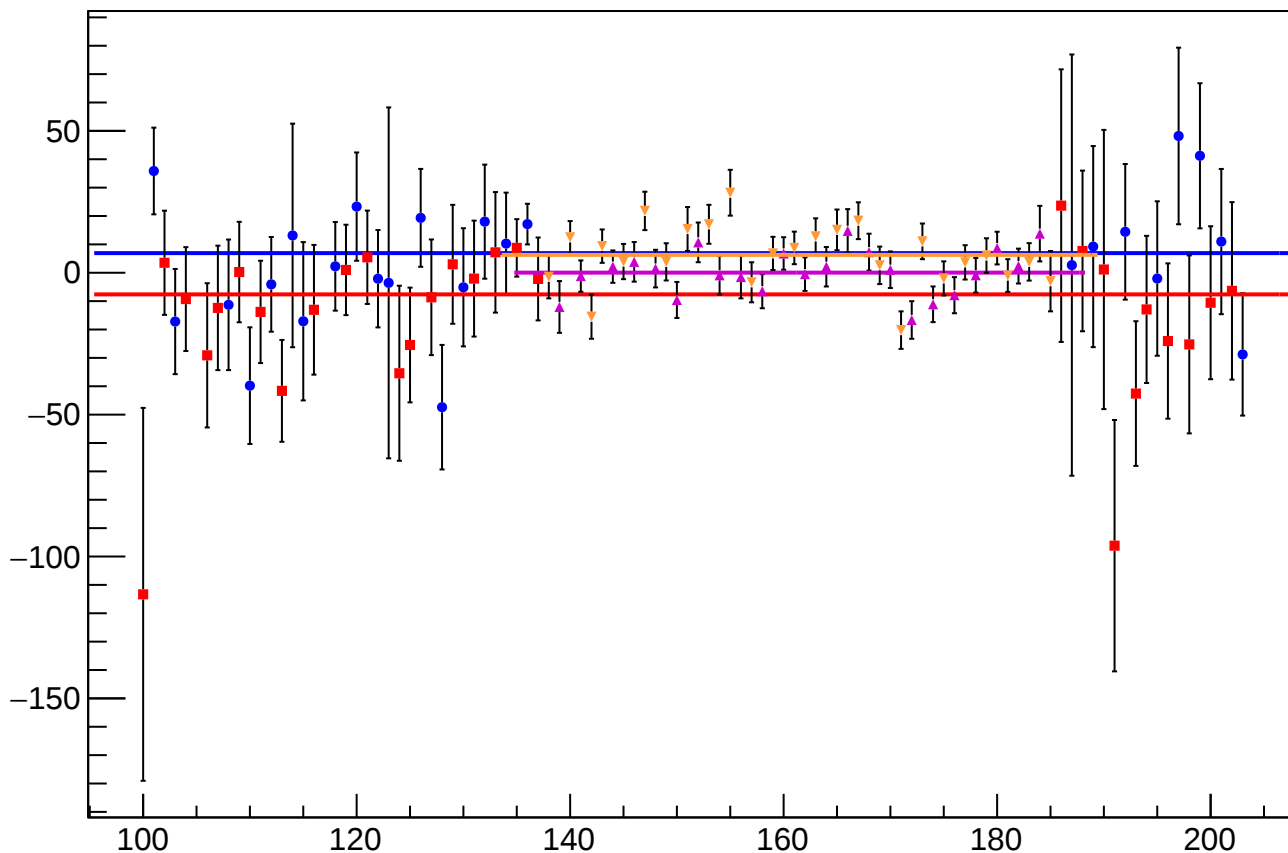
Right: 3477.358 ± 0.533 $\chi^2/\text{NDF}: 7052644.5/53$

In: 3925.391 ± 0.551 $\chi^2/\text{NDF}: 7130848.0/47$

Out: 4171.136 ± 0.561 $\chi^2/\text{NDF}: 6361308.1/53$

All: 4046.097 ± 0.393 $\chi^2/\text{NDF}: 13589809.6/100$

diff_bpm16X_mean vs Slug, Sign Corrected



Right In: 6.922 ± 3.763 χ^2/NDF : 29.3/24

Left Out: 6.302 ± 1.313 χ^2/NDF : 56.7/24

Right Out: -7.623 ± 3.882 χ^2/NDF : 21.1/28

Left In: 0.044 ± 1.358 χ^2/NDF : 30.0/22

Left: 3.279 ± 0.944 χ^2/NDF : 97.7/47

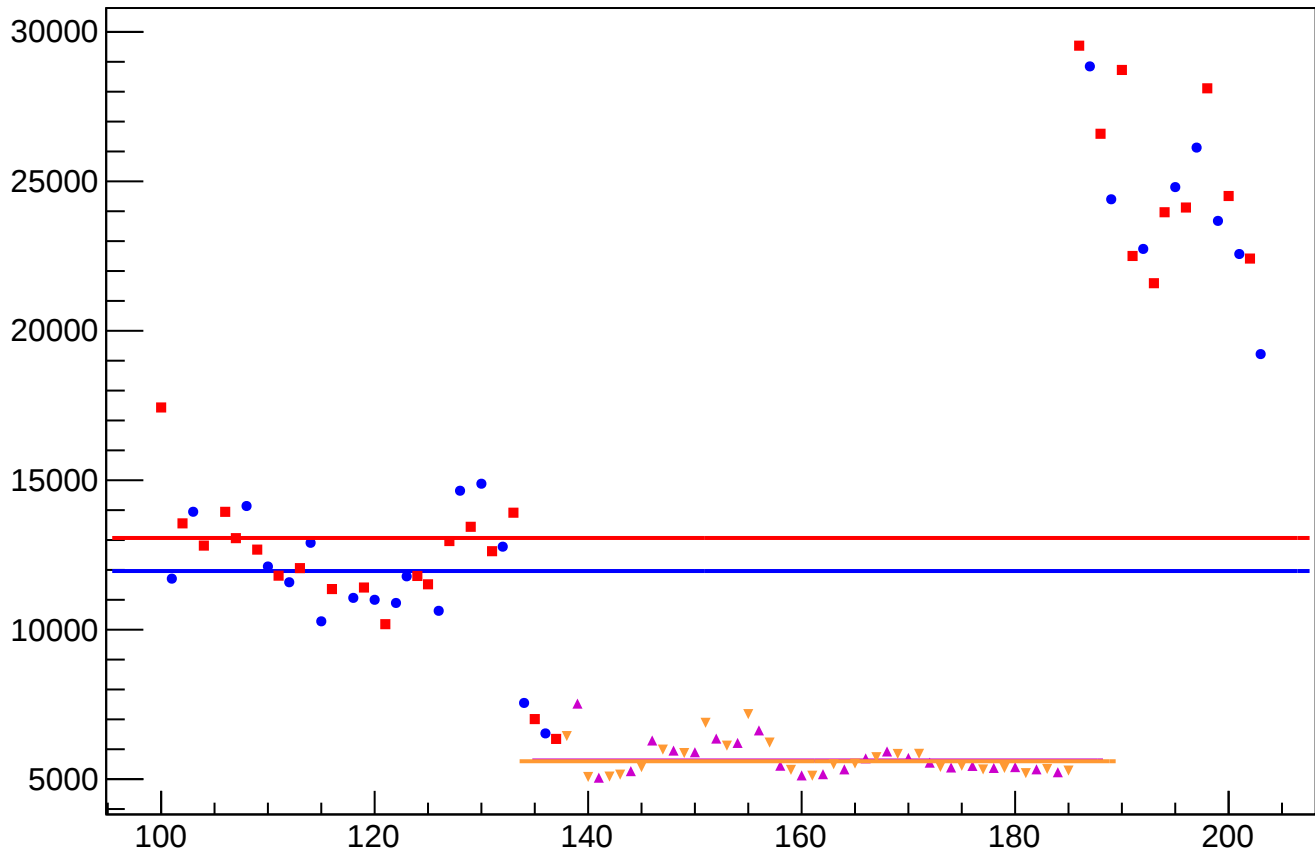
Right: -0.123 ± 2.702 χ^2/NDF : 57.7/53

In: 0.837 ± 1.277 χ^2/NDF : 62.3/47

Out: 4.874 ± 1.243 χ^2/NDF : 89.4/53

All: 2.909 ± 0.891 χ^2/NDF : 156.8/101

diff_bpm16X_rms vs Slug, Sign Corrected



Right In: 11963.016+/-2.661 χ^2/NDF : 4034109.0/24

Left Out: 5598.786+/-0.928 χ^2/NDF : 283253.4/24

Right Out: 13068.648+/-2.745 χ^2/NDF : 4171558.1/28

Left In: 5625.163+/-0.960 χ^2/NDF : 272563.5/22

Left: 5611.528+/-0.667 χ^2/NDF : 556207.1/47

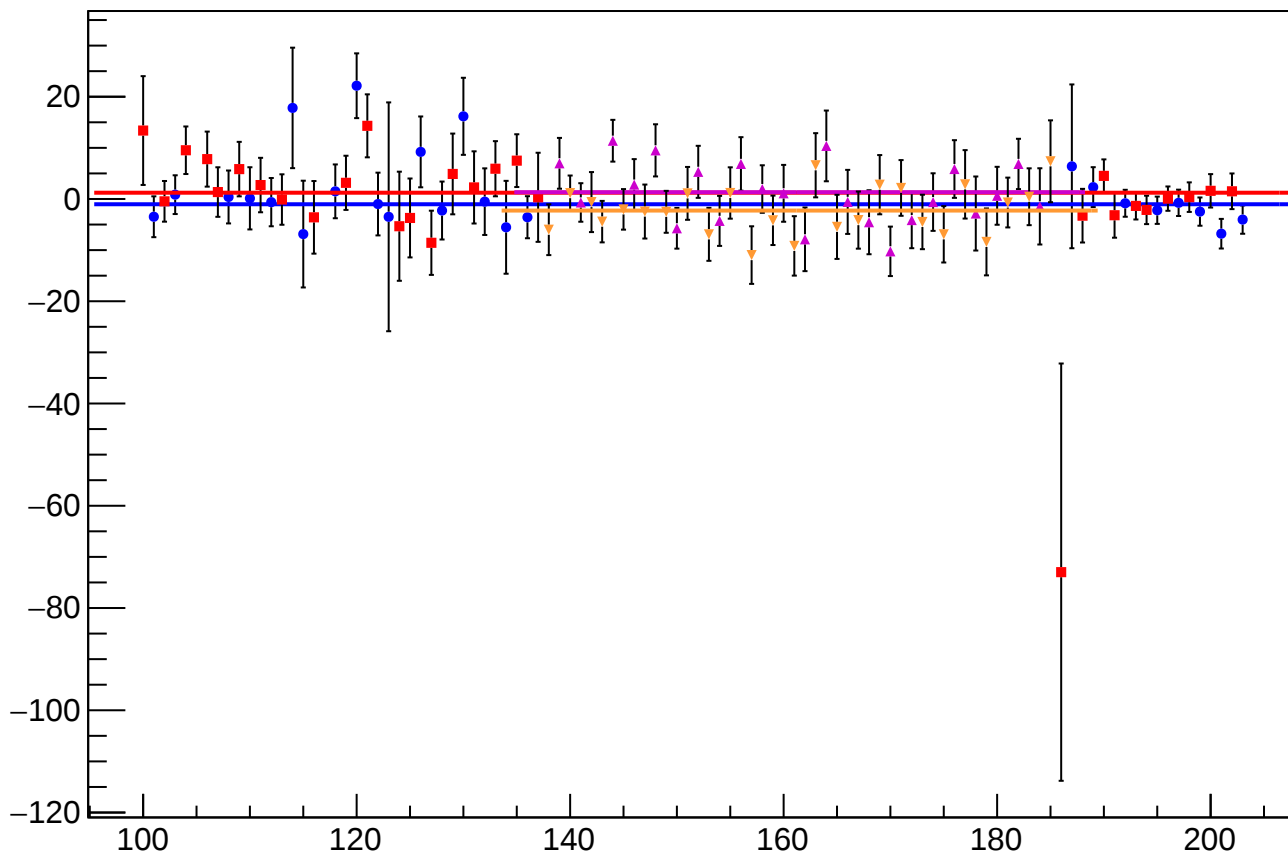
Right: 12498.575+/-1.911 χ^2/NDF : 8289306.1/53

In: 6355.255+/-0.903 χ^2/NDF : 9326885.3/47

Out: 6365.052+/-0.879 χ^2/NDF : 11099706.3/53

All: 6360.285+/-0.630 χ^2/NDF : 20426652.1/100

diff_bpm16Y_mean vs Slug, Sign Corrected



Right In: -1.029 ± 0.846 χ^2/NDF : 31.9/24

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

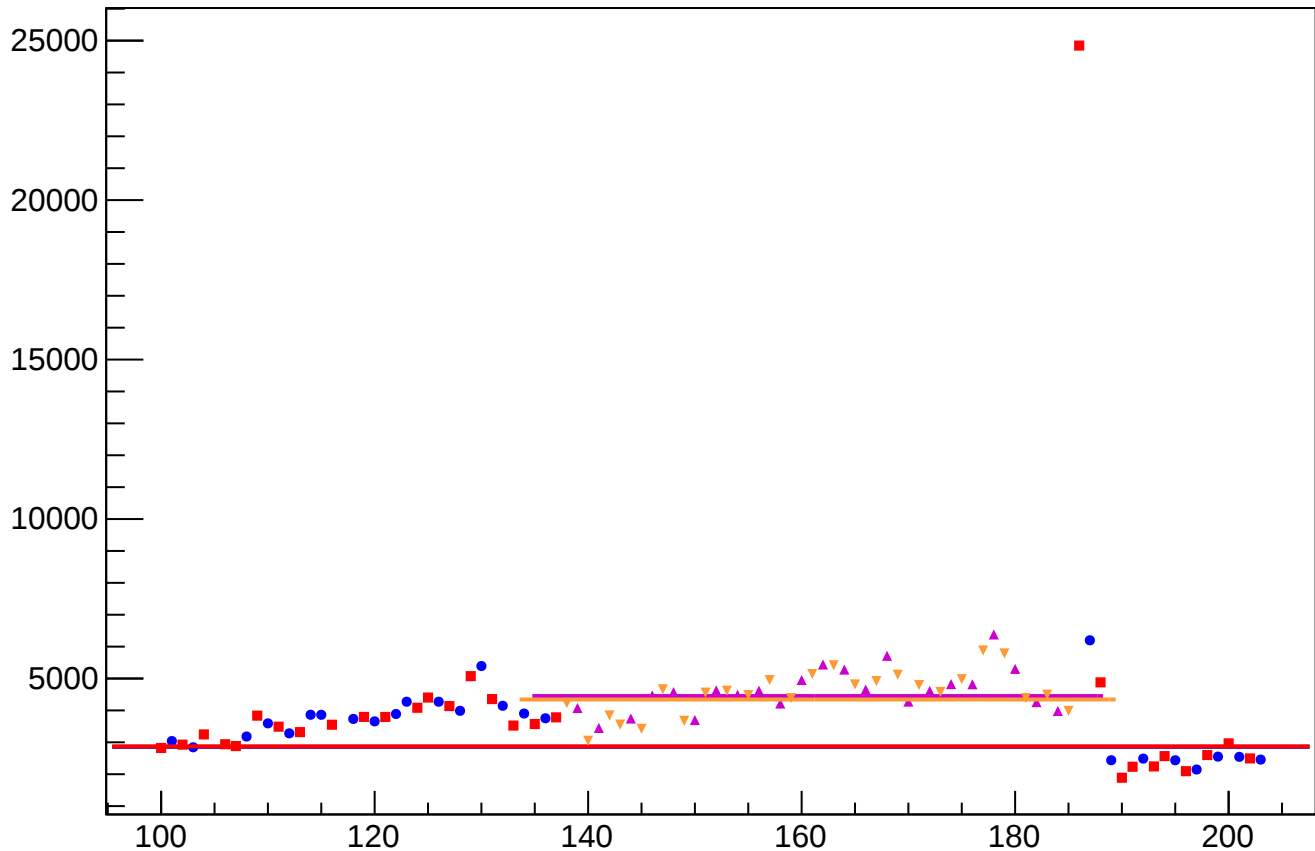
Right: 0.135 ± 0.589 χ^2/NDF : 62.2/53

In: -0.135 ± 0.666 χ^2/NDF : 65.4/47

Out: -0.125 ± 0.641 χ^2/NDF : 49.2/53

All: -0.130 ± 0.462 χ^2/NDF : 114.7/101

diff_bpm16Y_rms vs Slug, Sign Corrected



Right In: 2858.774+/-0.598 χ^2/NDF : 1271453.7/24

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

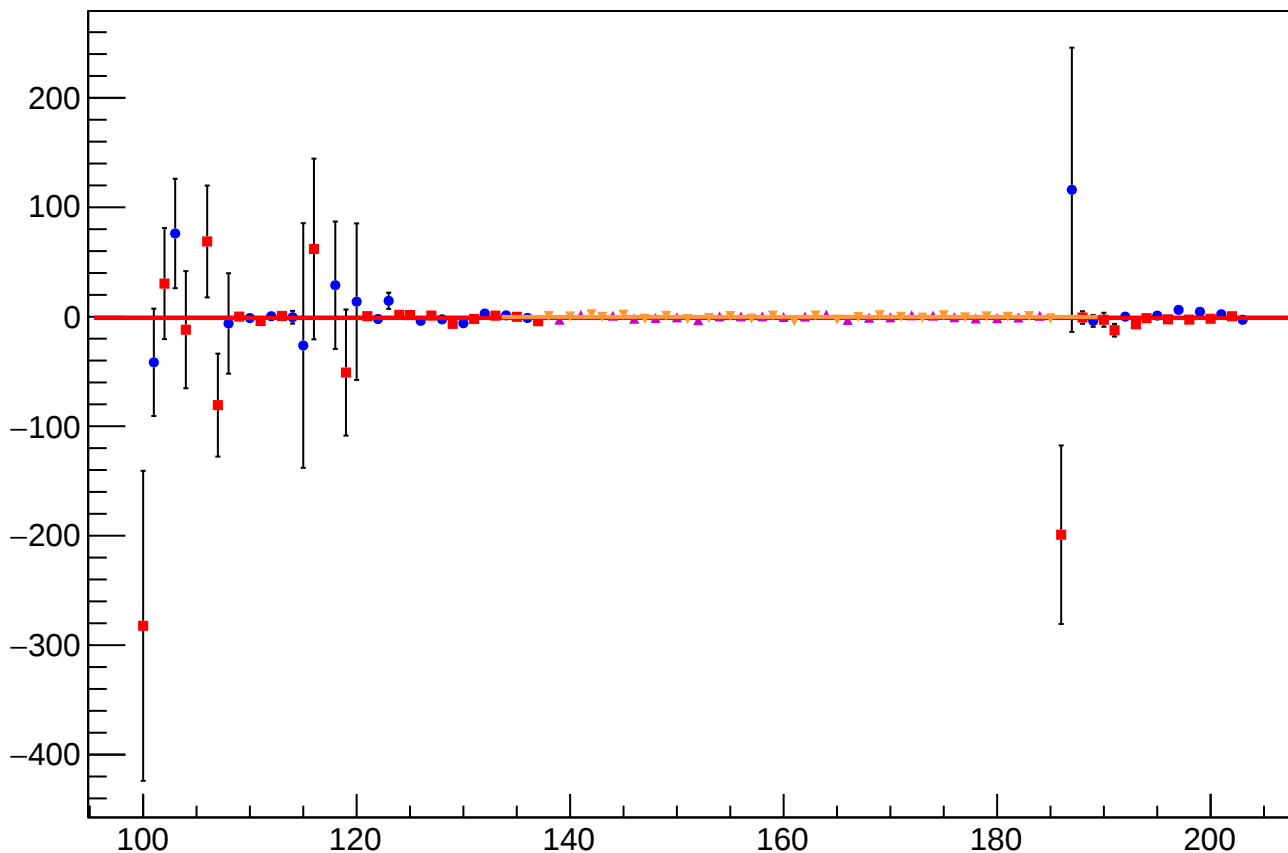
Right: 2865.721+/-0.416 χ^2/NDF : 3528945.7/53

In: 3462.511+/-0.471 χ^2/NDF : 4649024.3/47

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

All: 3451.900+/-0.327 χ^2/NDF : 10395901.9/100

diff_bpm1p02bX_mean vs Slug, Sign Corrected



Right In: -0.772 ± 0.651 χ^2/NDF : 25.9/24

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

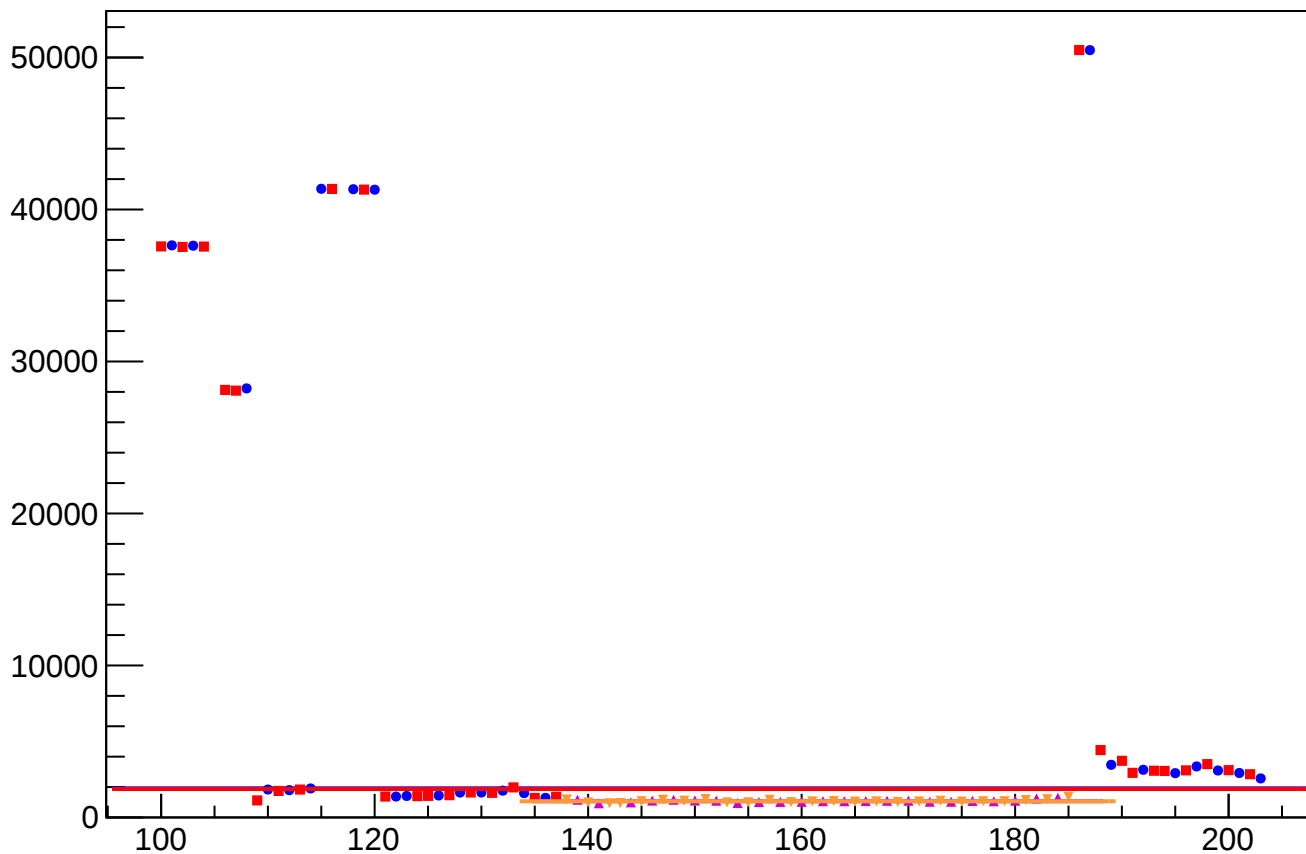
Right: -0.971 ± 0.453 χ^2/NDF : 60.6/53

In: -0.328 ± 0.239 χ^2/NDF : 53.6/47

Out: -0.235 ± 0.232 χ^2/NDF : 71.5/53

All: -0.280 ± 0.166 χ^2/NDF : 125.1/101

diff_bpm1p02bX_rms vs Slug, Sign Corrected



Right In: 1915.275+/-0.460

χ^2/NDF : 6903248.8/24

Left Out: 1064.701+/-0.176

χ^2/NDF : 186511.5/24

Right Out: 1871.203+/-0.446

χ^2/NDF : 8253344.3/28

Left In: 1066.255+/-0.182

χ^2/NDF : 164232.1/22

Left: 1065.454+/-0.126

χ^2/NDF : 350781.3/47

Right: 1892.545+/-0.320

χ^2/NDF : 15161322.9/53

In: 1180.751+/-0.169

χ^2/NDF : 10011833.9/47

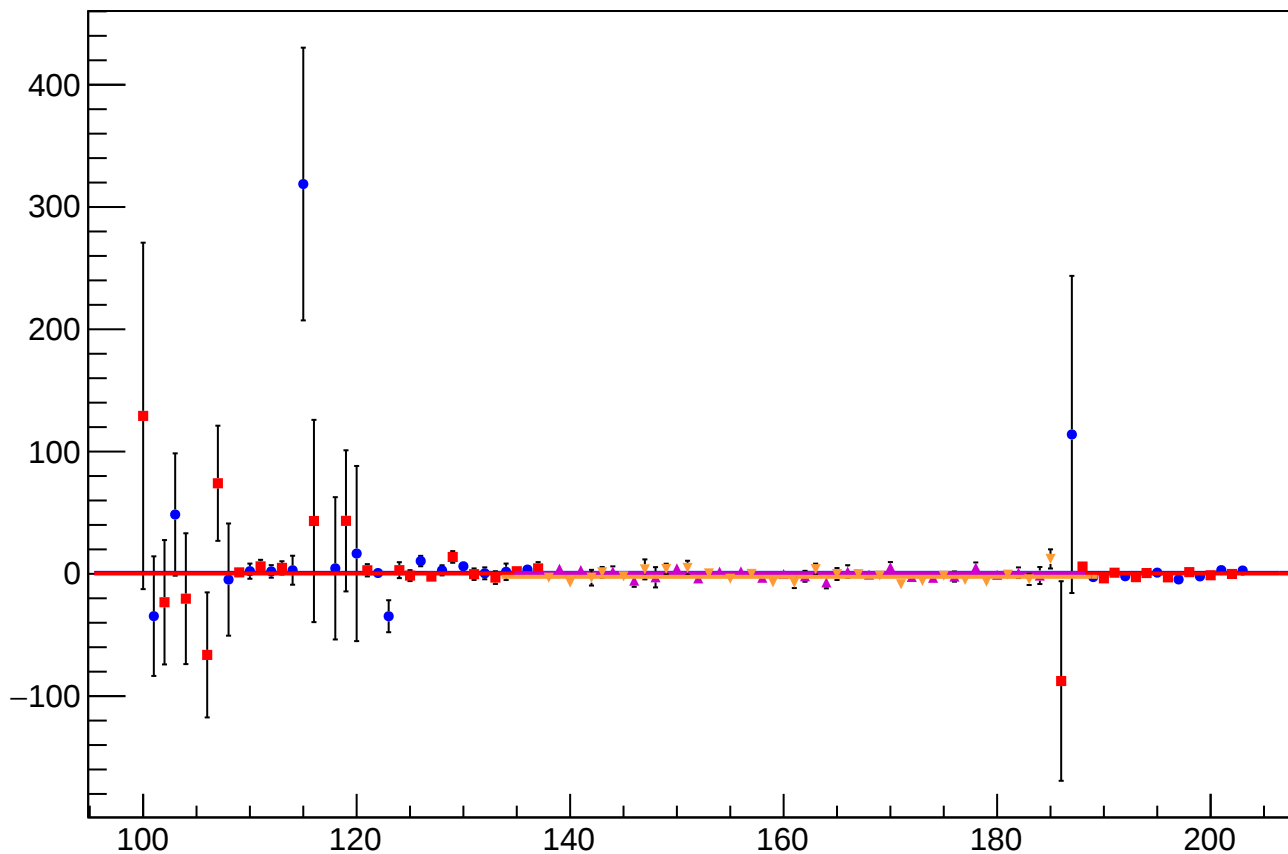
Out: 1173.501+/-0.164

χ^2/NDF : 11269361.6/53

All: 1177.012+/-0.118

χ^2/NDF : 21282144.3/100

diff_bpm1p02bY_mean vs Slug, Sign Corrected



Right In: 0.809 ± 0.703 $\chi^2/\text{NDF}: 38.4/24$

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 $\chi^2/\text{NDF}: 42.8/47$

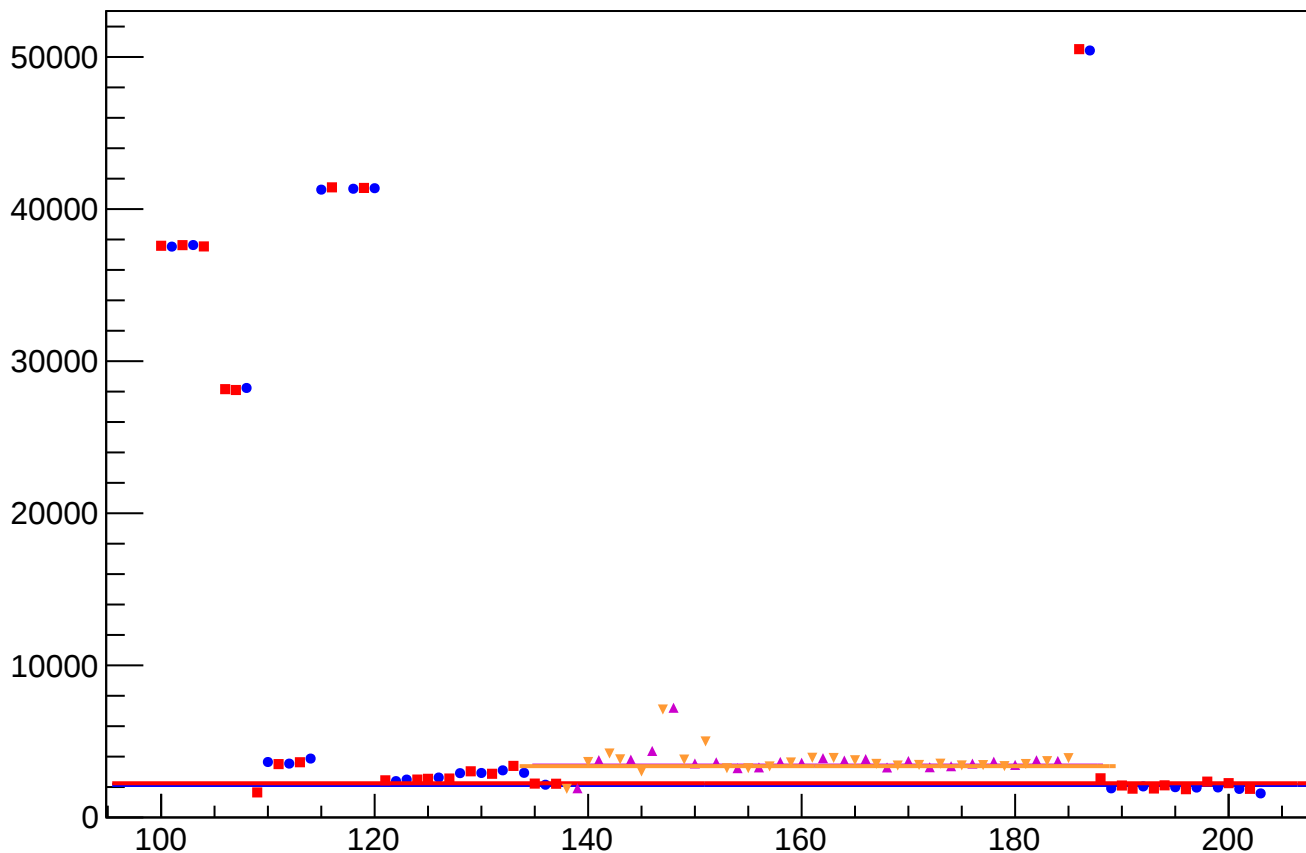
Right: 0.551 ± 0.502 $\chi^2/\text{NDF}: 66.7/53$

In: 0.669 ± 0.540 $\chi^2/\text{NDF}: 53.9/47$

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

All: -0.122 ± 0.381 $\chi^2/\text{NDF}: 113.8/101$

diff_bpm1p02bY_rms vs Slug, Sign Corrected



Right In: 2135.634 $\pm$ 0.497 χ^2 /NDF: 5603419.7/24

Left Out: 3372.958 $\pm$ 0.573 χ^2 /NDF:1656864.7/24

Right Out: 2248.510 $\pm$ 0.508 χ^2 /NDF: 5906041.2/28

Left In: 3411.924 $\pm$ 0.596 χ^2 /NDF:1434523.7/22

Left: 3391.680 $\pm$ 0.413 χ^2 /NDF: 3093609.1/47

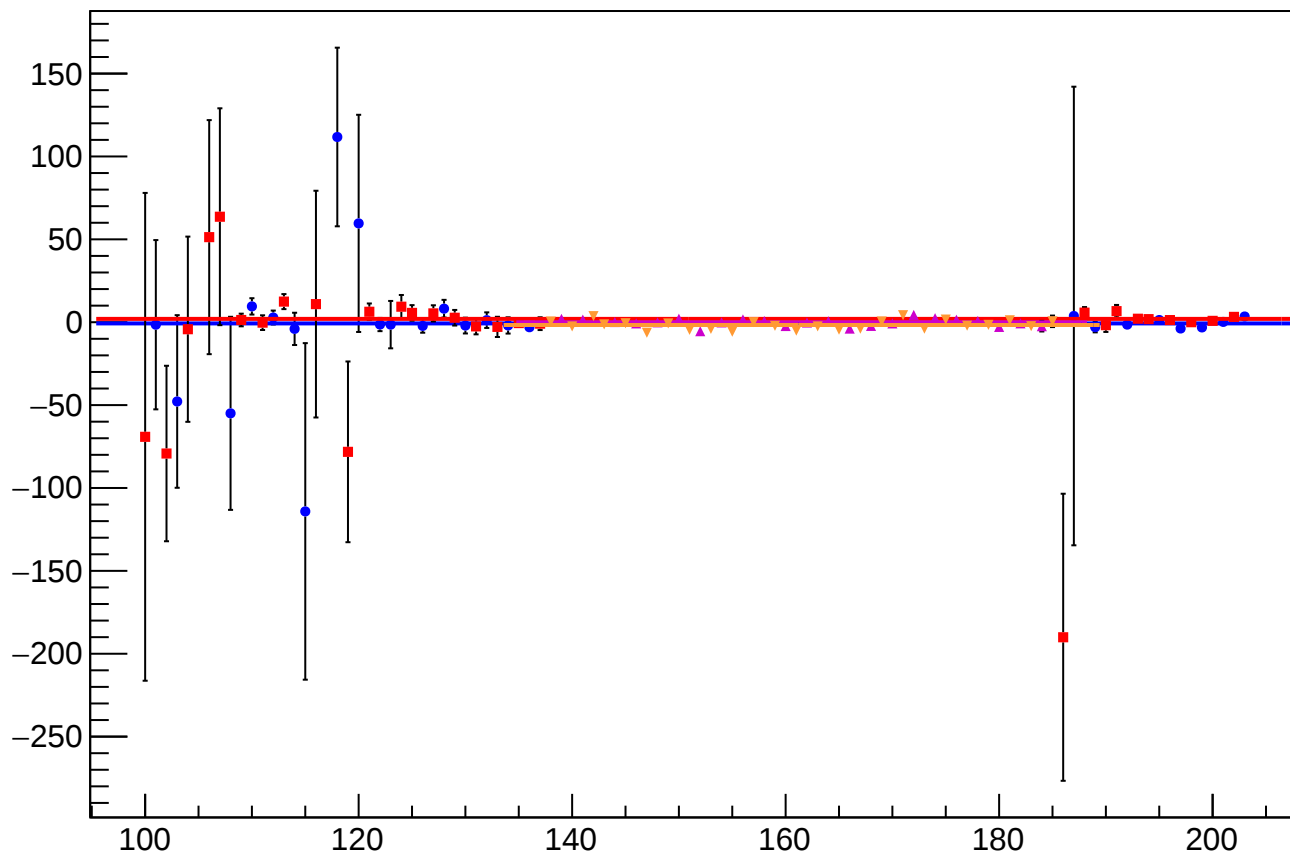
Right: 2190.876 $\pm$ 0.355 χ^2 /NDF: 11534695.1/53

In: 2659.250 $\pm$ 0.382 χ^2 /NDF:9742414.3/47

Out: 2742.952 $\pm$ 0.380 χ^2 /NDF:9719467.2/53

All: 2701.286 $\pm$ 0.269 χ^2 /NDF: 19486026.0/100

diff_bpm1p03aX_mean vs Slug, Sign Corrected



Right In: -0.722 ± 0.714 χ^2/NDF : 25.5/24

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

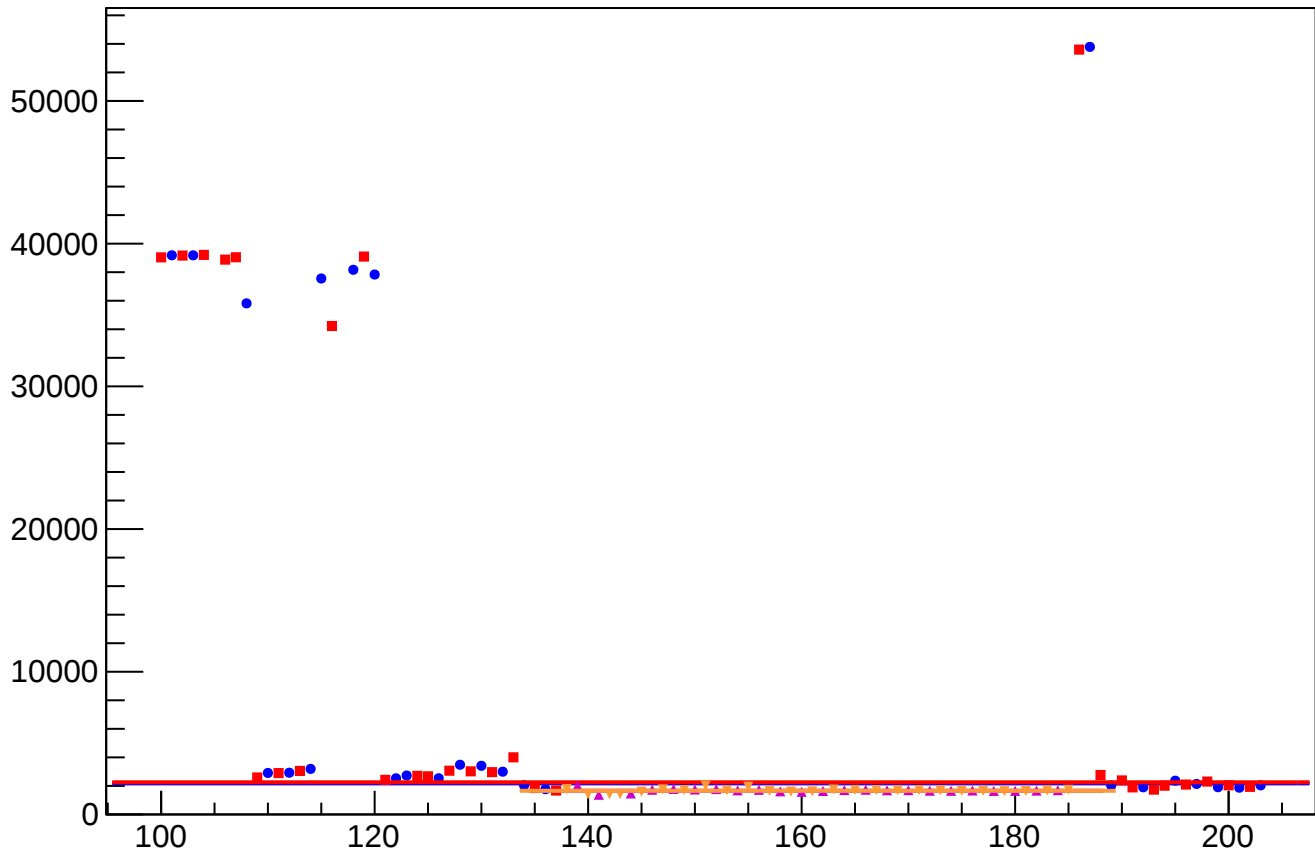
Right: 0.647 ± 0.504 χ^2/NDF : 60.3/53

In: -0.228 ± 0.350 χ^2/NDF : 54.4/47

Out: -0.830 ± 0.341 χ^2/NDF : 93.7/53

All: -0.537 ± 0.244 χ^2/NDF : 149.6/101

diff_bpm1p03aX_rms vs Slug, Sign Corrected



Right In: 2177.062 $\pm$ 0.505 χ^2 /NDF: 5436907.9/24

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

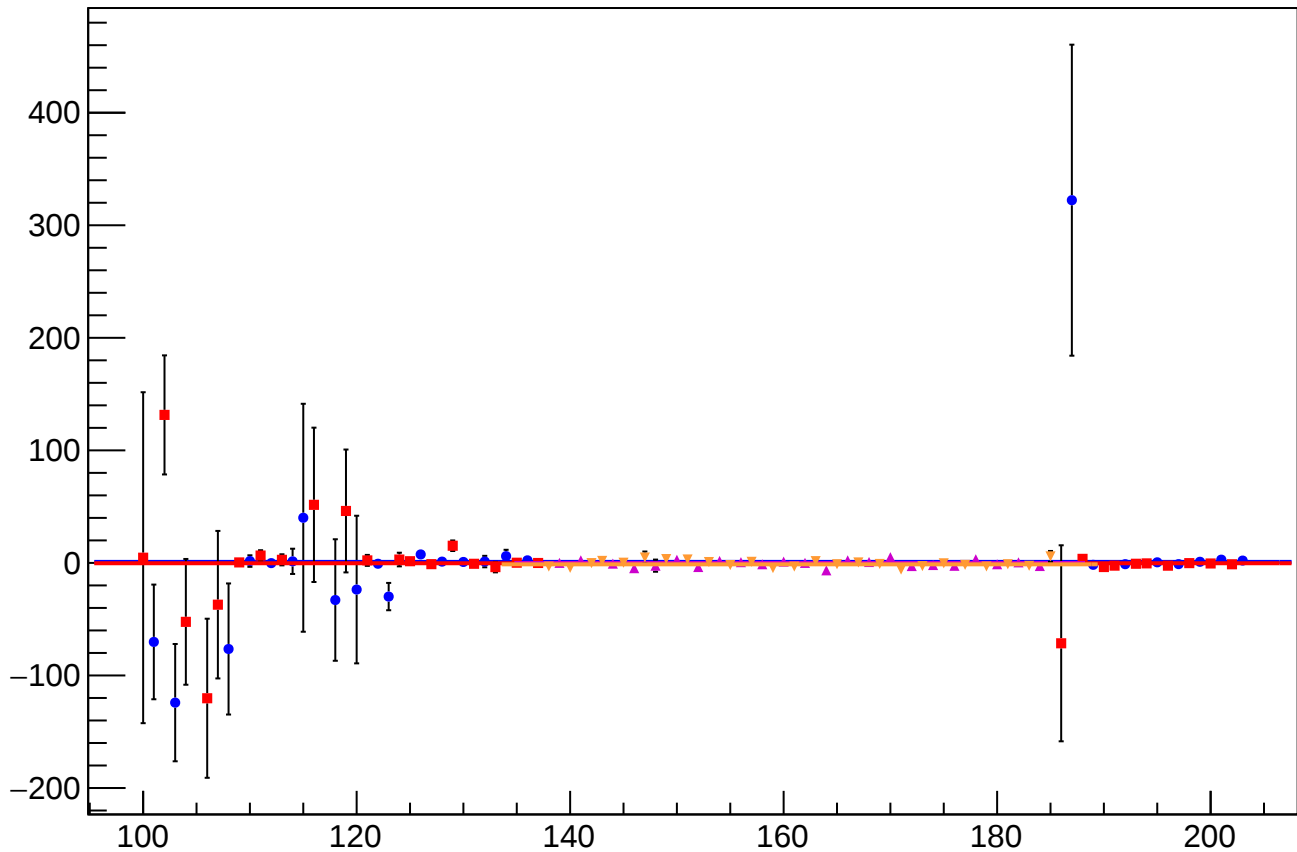
Right: 2215.787 $\pm$ 0.357 χ^2 /NDF: 11469497.4/53

In: 1786.879 $\pm$ 0.247 χ^2 /NDF: 6402708.3/47

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

All: 1790.565 $\pm$ 0.173 χ^2 /NDF: 13727498.5/100

diff_bpm1p03aY_mean vs Slug, Sign Corrected



Right In: 0.905 ± 0.589 $\chi^2/\text{NDF}: 31.8/24$

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

Right Out: -0.292 ± 0.594 $\chi^2/\text{NDF}: 33.0/28$

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

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

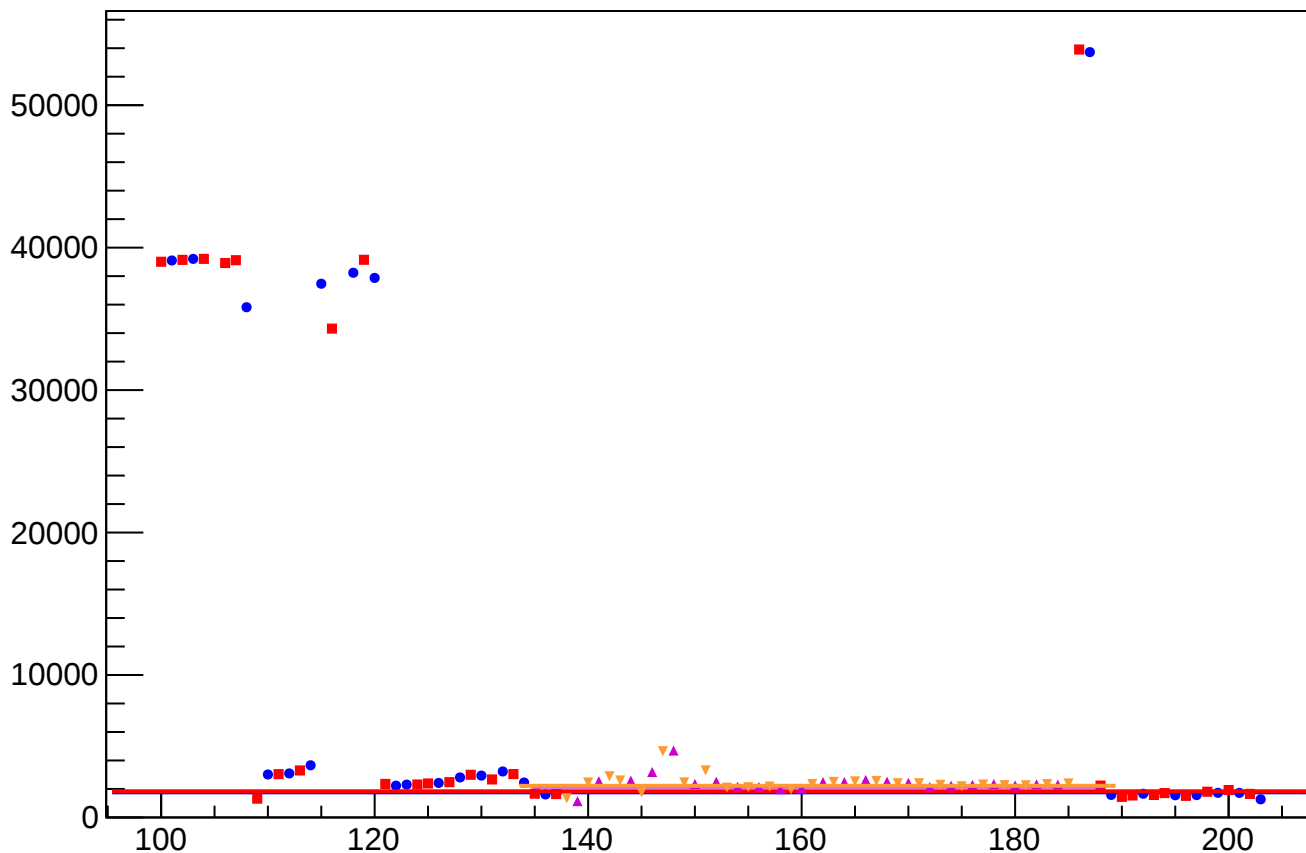
Right: 0.312 ± 0.418 $\chi^2/\text{NDF}: 66.8/53$

In: 0.361 ± 0.398 $\chi^2/\text{NDF}: 52.6/47$

Out: -0.821 ± 0.398 $\chi^2/\text{NDF}: 56.2/53$

All: -0.231 ± 0.281 $\chi^2/\text{NDF}: 113.2/101$

diff_bpm1p03aY_rms vs Slug, Sign Corrected



Right In: 1764.044+/-0.416 χ^2/NDF : 6098500.7/24

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

Right Out: 1836.160+/-0.420 χ^2/NDF : 6436957.8/28

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

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

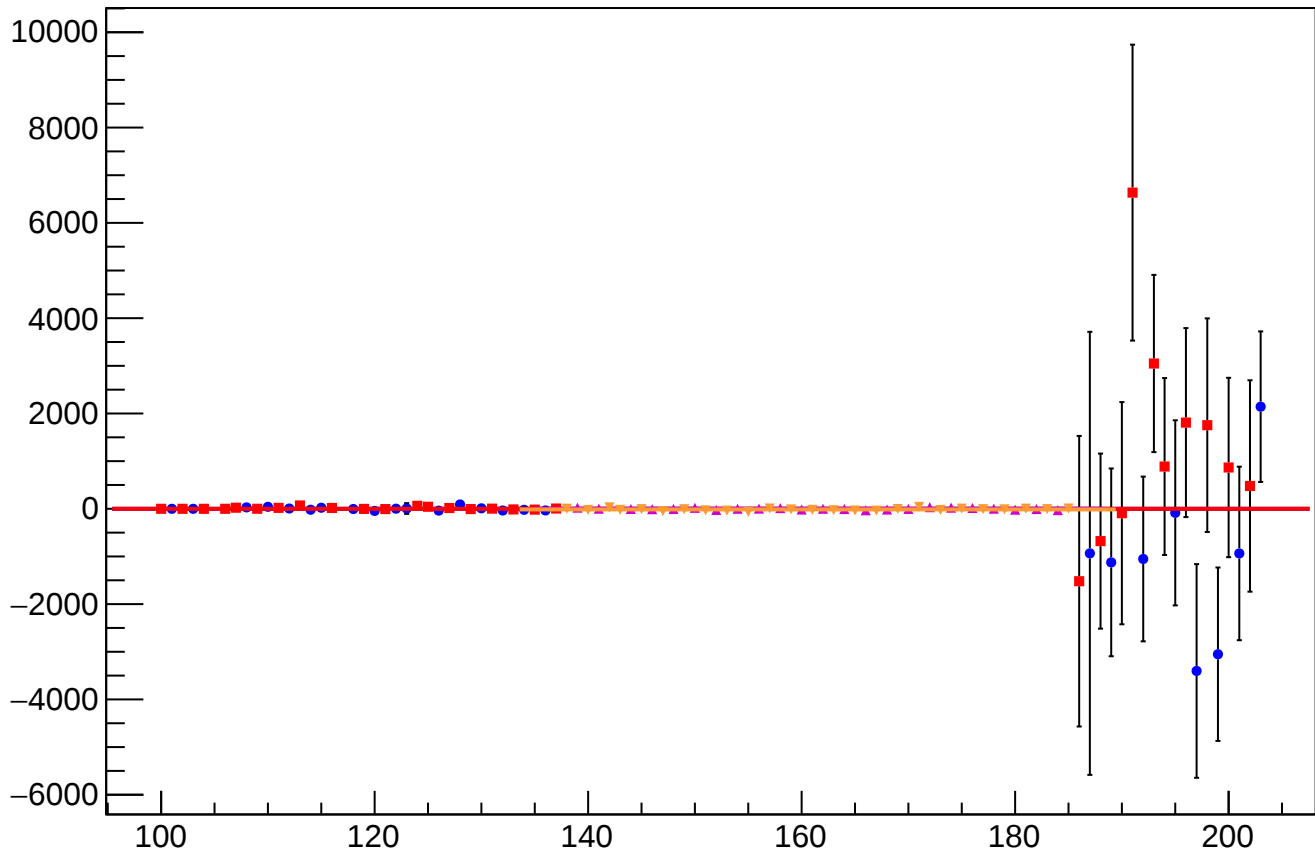
Right: 1799.775+/-0.296 χ^2/NDF : 12550323.8/53

In: 1983.784+/-0.282 χ^2/NDF :8587275.3/47

Out: 2049.269+/-0.281 χ^2/NDF :8325336.9/53

All: 2016.598+/-0.199 χ^2/NDF : 16939680.6/100

diff_cav4bX_mean vs Slug, Sign Corrected



Right In: 0.013 ± 0.017 $\chi^2/\text{NDF}: 24.6/24$

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 $\chi^2/\text{NDF}: 99.5/47$

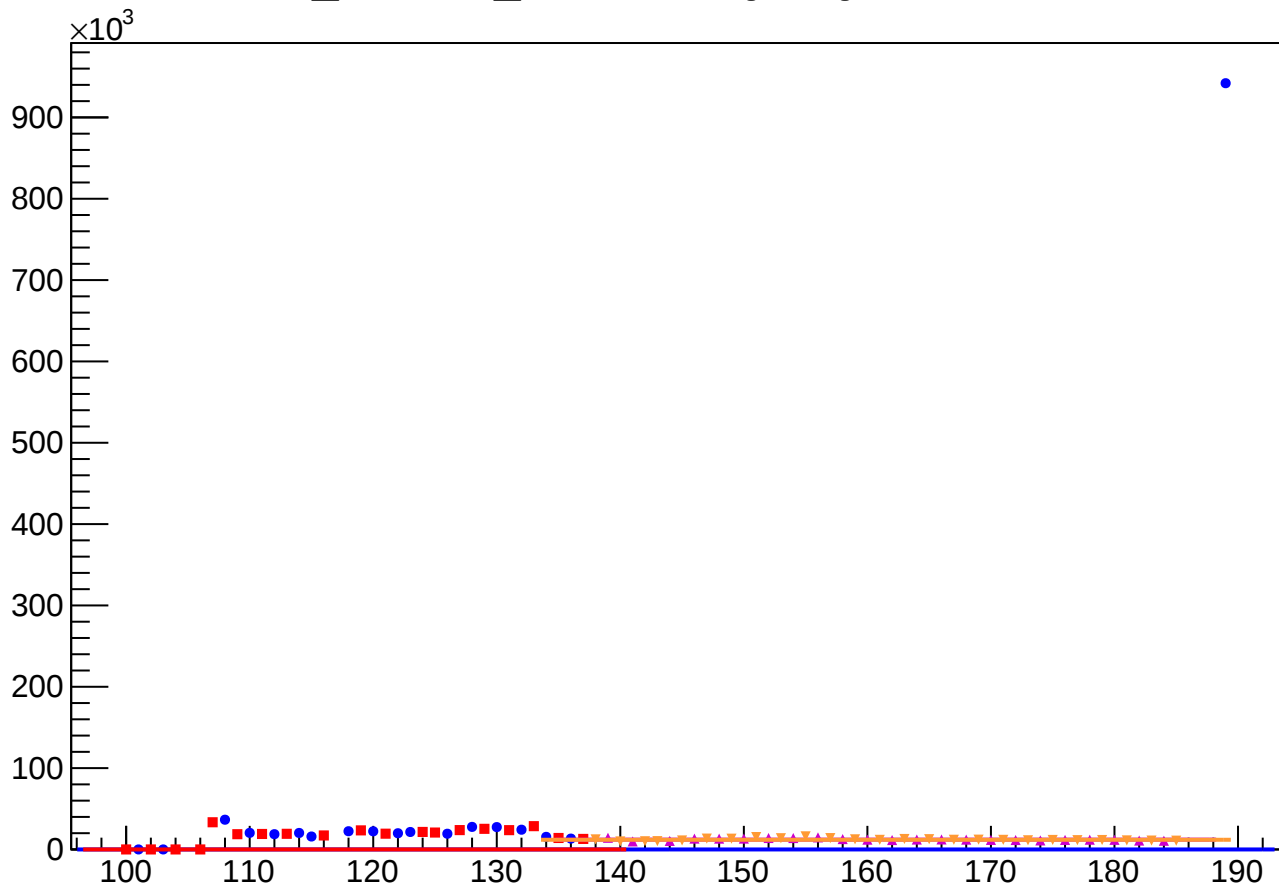
Right: 0.004 ± 0.012 $\chi^2/\text{NDF}: 50.1/53$

In: 0.013 ± 0.017 $\chi^2/\text{NDF}: 53.5/47$

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

All: 0.004 ± 0.012 $\chi^2/\text{NDF}: 161.0/101$

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

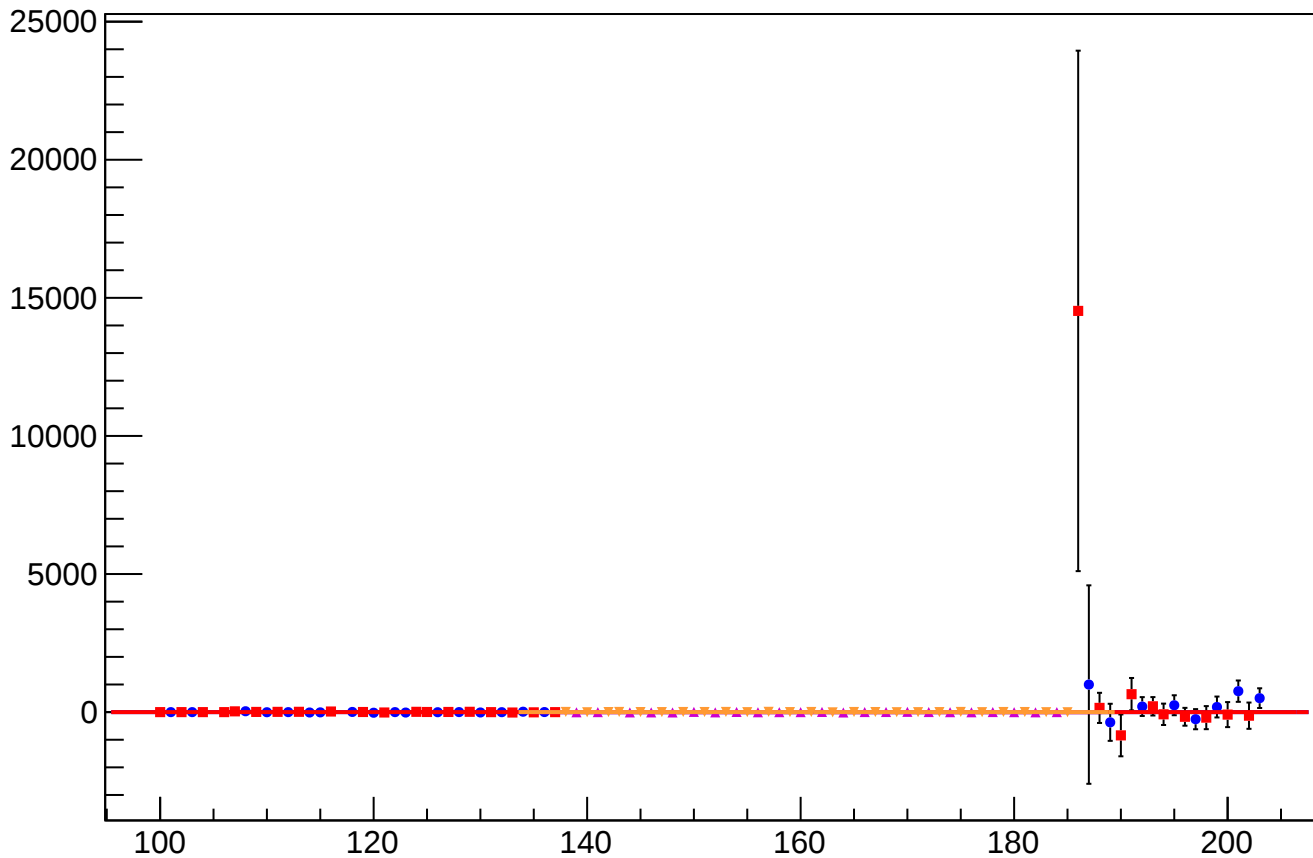
Right: 18.464 $\pm$ 0.008 χ^2 /NDF: 22189063.4/36

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 ± 0.009 χ^2/NDF : 20.7/24

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

Right Out: -0.014 ± 0.009 χ^2/NDF : 24.7/28

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

Left: 0.388 ± 0.732 χ^2/NDF : 57.1/47

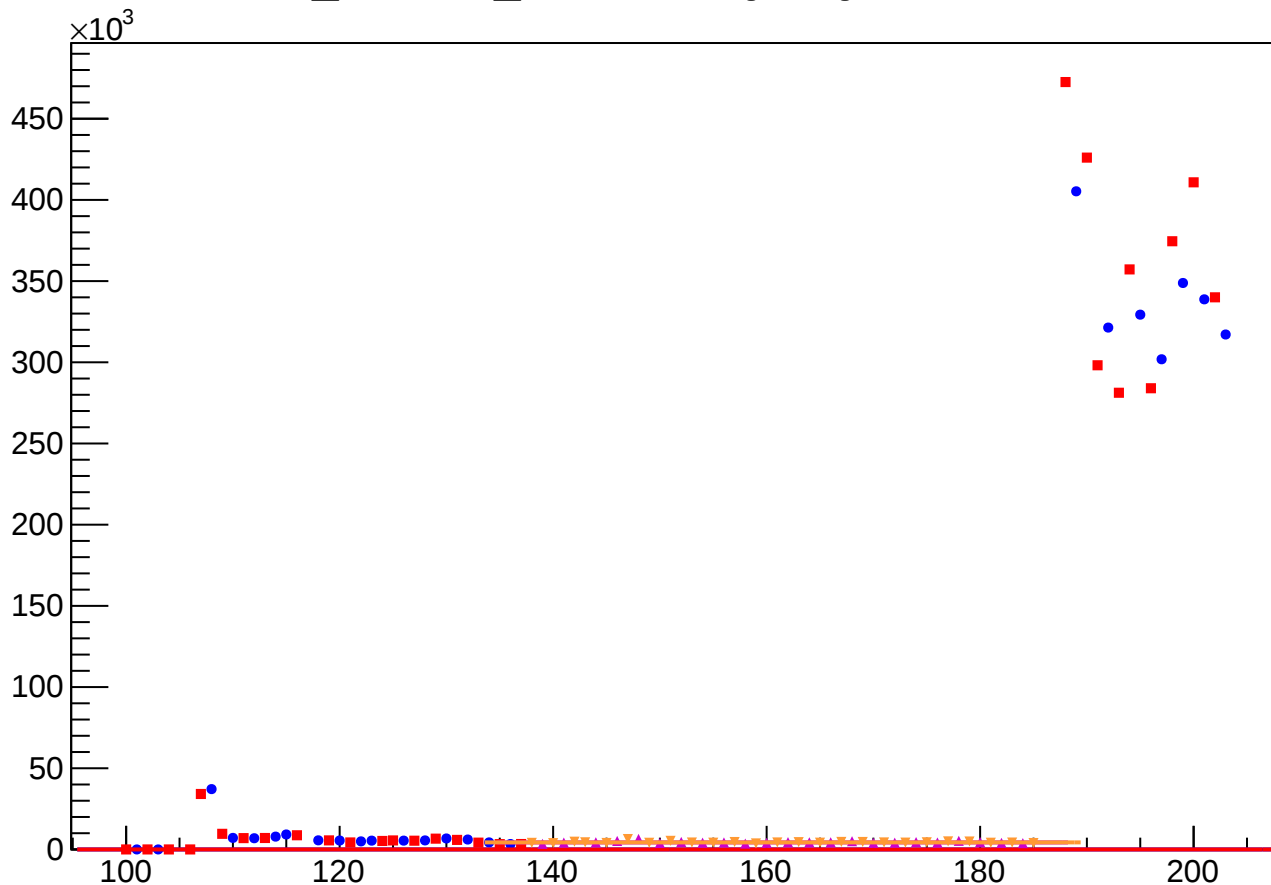
Right: -0.007 ± 0.006 χ^2/NDF : 46.8/53

In: 0.001 ± 0.009 χ^2/NDF : 57.1/47

Out: -0.014 ± 0.009 χ^2/NDF : 45.7/53

All: -0.007 ± 0.006 χ^2/NDF : 104.2/101

diff_cav4bY_rms vs Slug, Sign Corrected



Right In: 9.940 ± 0.007 χ^2/NDF : 21401736.8/23

Left Out: 4349.005 ± 0.723 χ^2/NDF : 383895.7/24

Right Out: 9.855 ± 0.006 χ^2/NDF : 22682034.9/27

Left In: 4321.572 ± 0.741 χ^2/NDF : 514603.2/22

Left: 4335.639 ± 0.518 χ^2/NDF : 899200.9/47

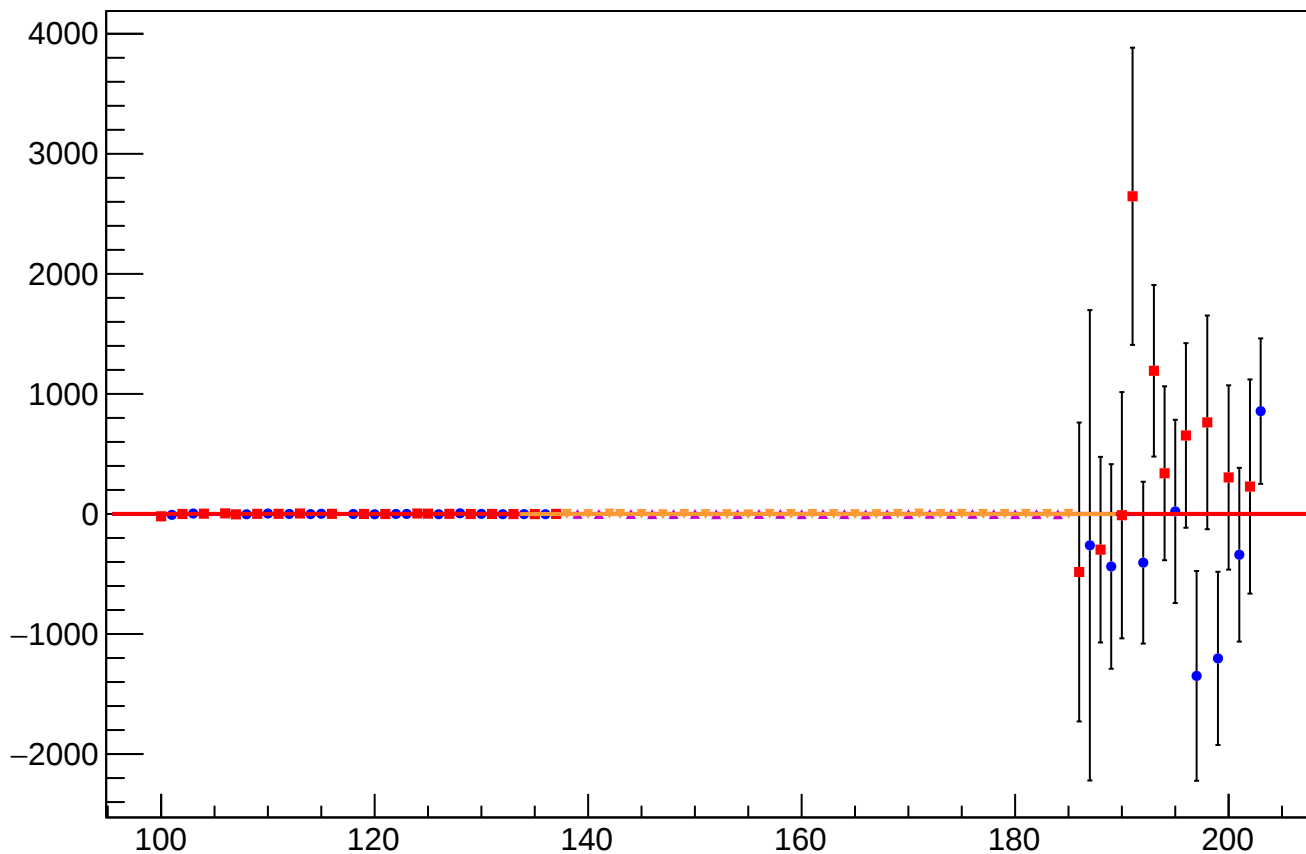
Right: 9.895 ± 0.004 χ^2/NDF : 44083861.8/51

In: 10.272 ± 0.007 χ^2/NDF : 55733465.1/46

Out: 10.166 ± 0.006 χ^2/NDF : 59111189.7/52

All: 10.216 ± 0.004 χ^2/NDF : 114844795.7/99

diff_cav4cX_mean vs Slug, Sign Corrected



Right In: -0.714 ± 0.483 χ^2/NDF : 30.7/24

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

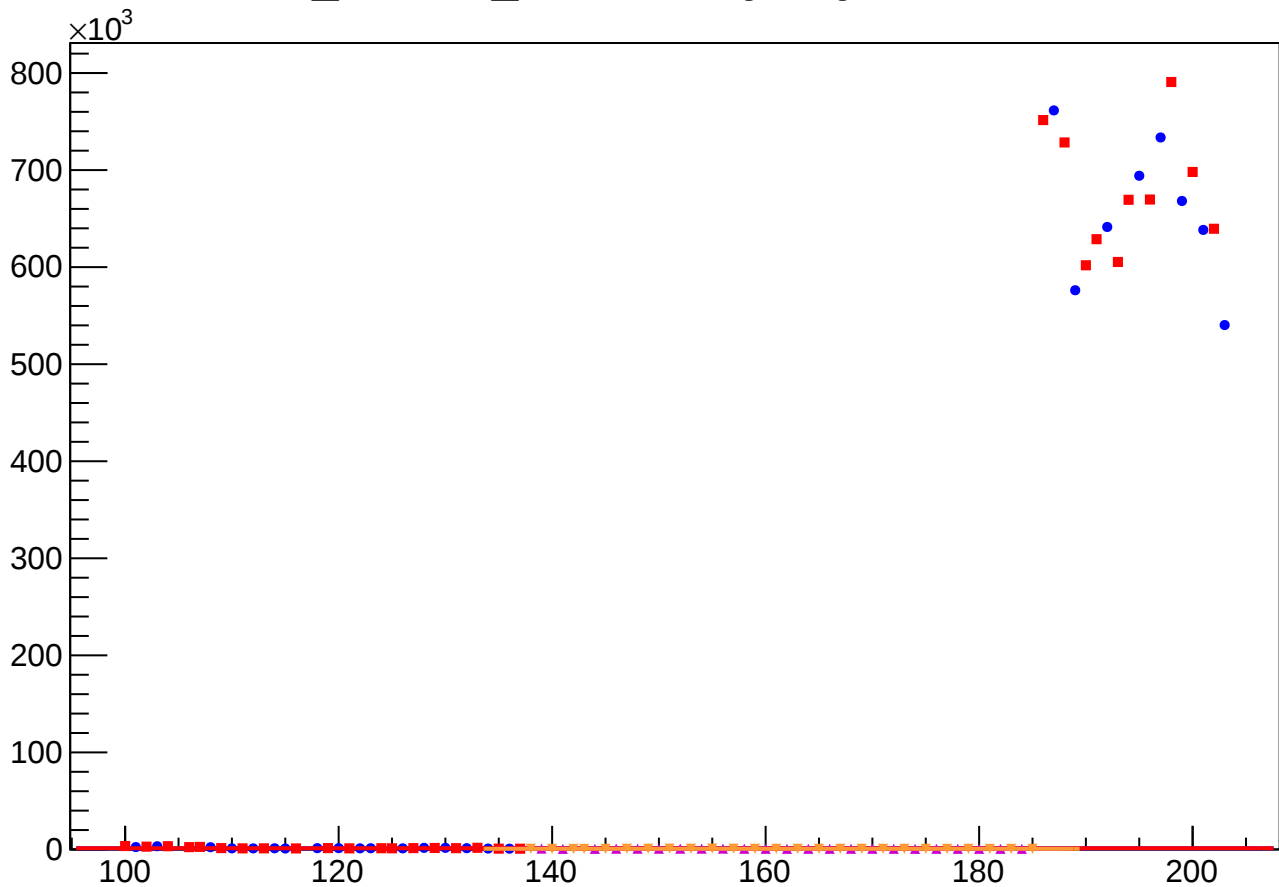
Right: -0.063 ± 0.348 χ^2/NDF : 57.1/53

In: -0.063 ± 0.161 χ^2/NDF : 62.2/47

Out: -0.637 ± 0.156 χ^2/NDF : 88.3/53

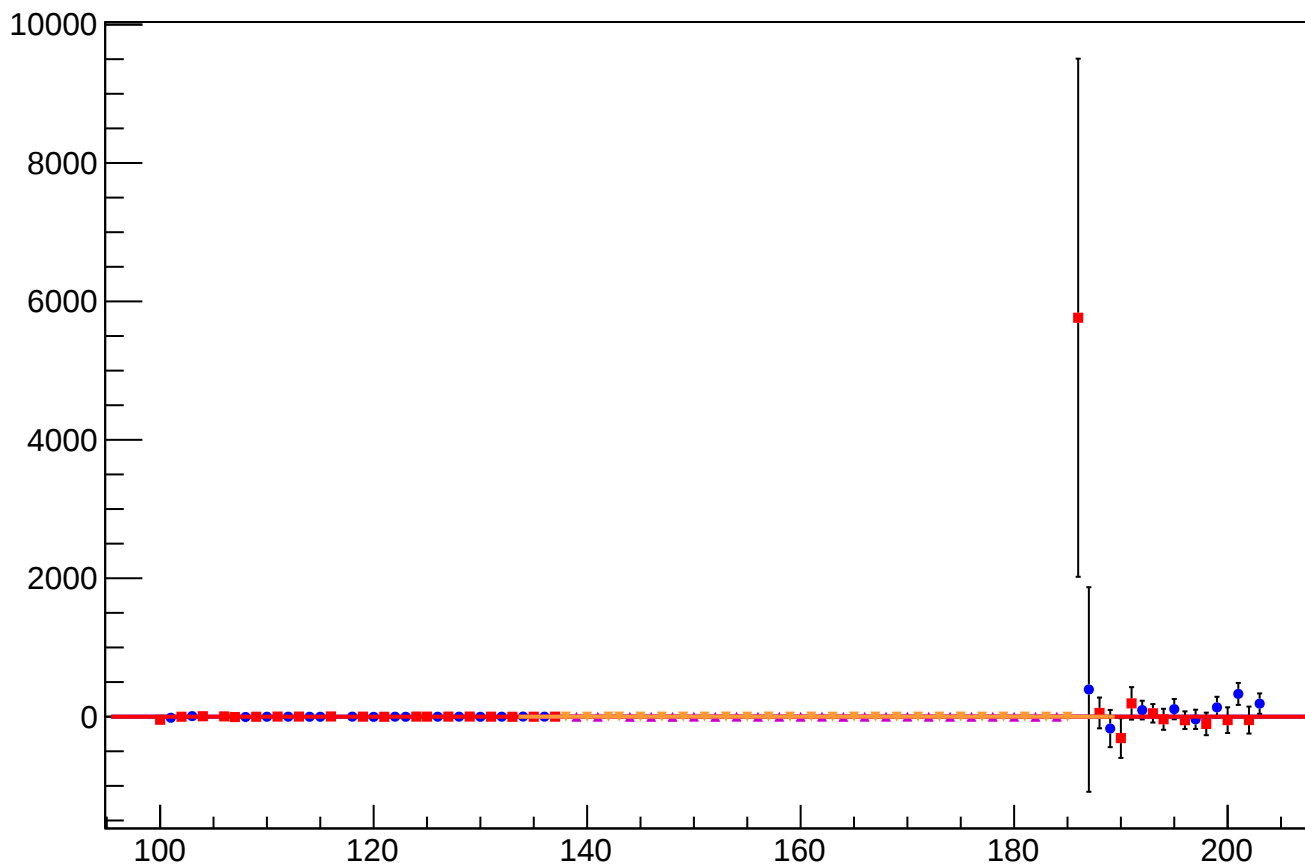
All: -0.359 ± 0.112 χ^2/NDF : 157.1/101

diff_cav4cX_rms vs Slug, Sign Corrected



Right In: 1169.107+/-0.342	χ^2/NDF : 12484933.2/24	Left: 703.867+/-0.084	χ^2/NDF : 726141.0/47
Left Out: 700.984+/-0.116	χ^2/NDF : 392855.4/24	Right: 1208.154+/-0.246	χ^2/NDF : 26653915.9/53
Right Out: 1250.225+/-0.355	χ^2/NDF : 14141841.5/28	In: 758.303+/-0.114	χ^2/NDF : 14443695.1/47
Left In: 706.971+/-0.121	χ^2/NDF : 332011.4/22	Out: 754.387+/-0.111	χ^2/NDF : 16700549.8/53
		All: 756.288+/-0.079	χ^2/NDF : 31144853.6/10

diff_cav4cY_mean vs Slug, Sign Corrected



Right In: -0.057 ± 0.269 $\chi^2/\text{NDF}: 27.4/24$

Left Out: 0.233 ± 0.123 $\chi^2/\text{NDF}: 18.0/24$

Right Out: -0.280 ± 0.264 $\chi^2/\text{NDF}: 25.7/28$

Left In: -0.126 ± 0.126 $\chi^2/\text{NDF}: 35.0/22$

Left: 0.059 ± 0.088 $\chi^2/\text{NDF}: 57.1/47$

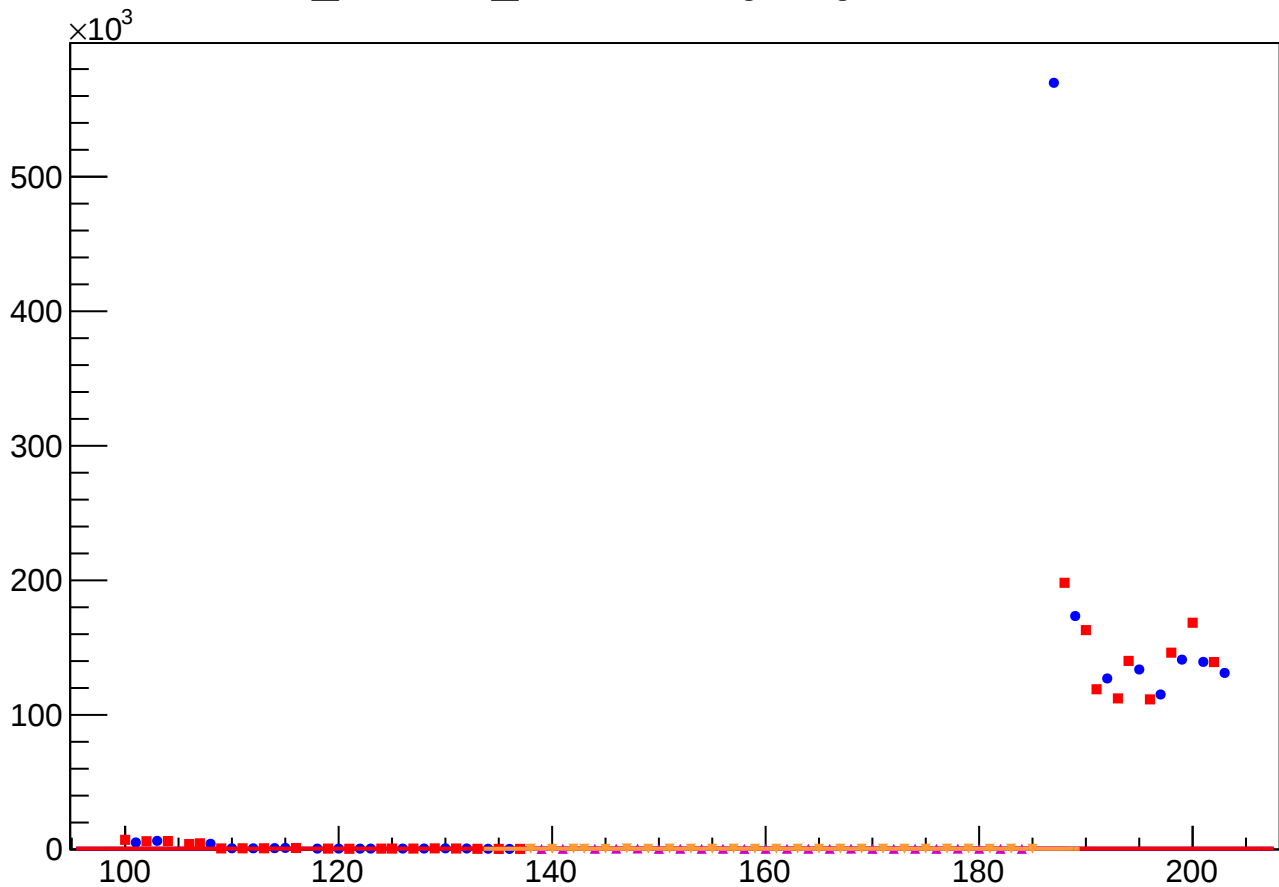
Right: -0.171 ± 0.189 $\chi^2/\text{NDF}: 53.5/53$

In: -0.113 ± 0.114 $\chi^2/\text{NDF}: 62.4/47$

Out: 0.142 ± 0.111 $\chi^2/\text{NDF}: 46.8/53$

All: 0.018 ± 0.080 $\chi^2/\text{NDF}: 111.8/101$

diff_cav4cY_rms vs Slug, Sign Corrected



Right In: 612.220+/-0.190 χ^2/NDF : 13793366.3/24

Left Out: 522.220+/-0.087 χ^2/NDF : 330405.3/24

Right Out: 601.713+/-0.187 χ^2/NDF : 15155283.9/27

Left In: 520.700+/-0.089 χ^2/NDF : 427720.5/22

Left: 521.481+/-0.062 χ^2/NDF : 758275.0/47

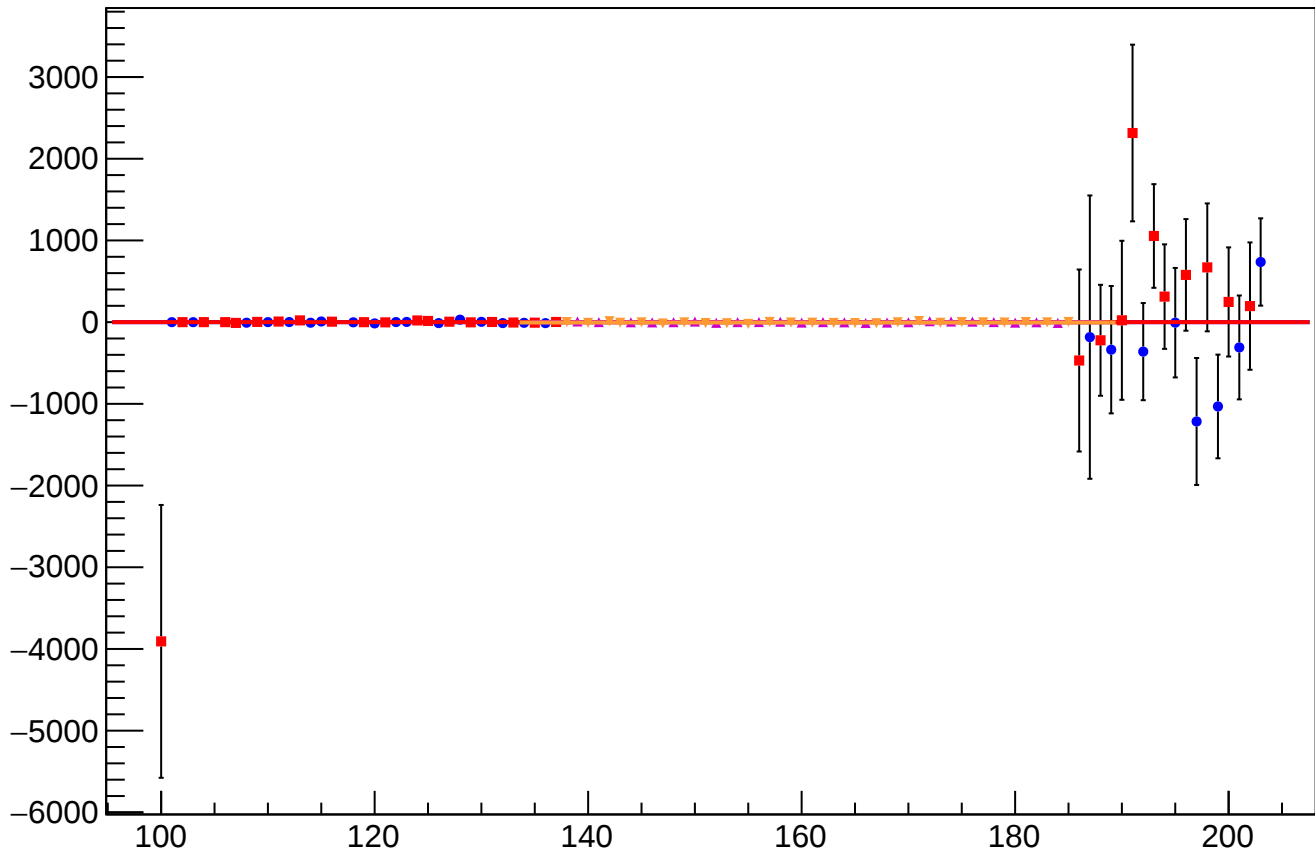
Right: 606.876+/-0.133 χ^2/NDF : 28950202.2/52

In: 537.198+/-0.081 χ^2/NDF : 14410865.7/47

Out: 536.286+/-0.079 χ^2/NDF : 15634466.7/52

All: 536.730+/-0.056 χ^2/NDF : 30045397.7/10

diff_cav4dX_mean vs Slug, Sign Corrected



Right In: -0.022 ± 0.021 χ^2/NDF : 23.8/24

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

Right Out: 0.027 ± 0.020 χ^2/NDF : 27.0/28

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

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

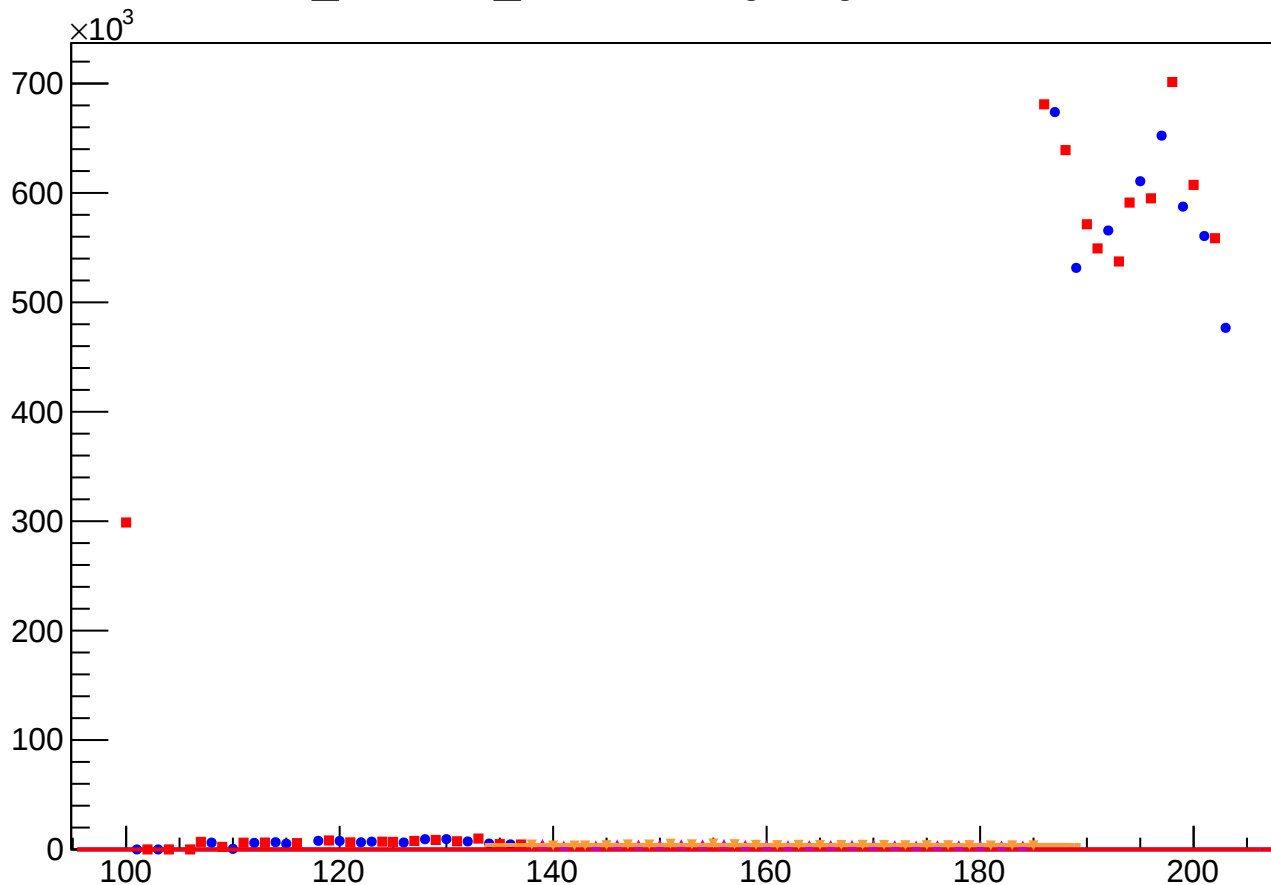
Right: 0.004 ± 0.014 χ^2/NDF : 53.6/53

In: -0.022 ± 0.021 χ^2/NDF : 53.3/47

Out: 0.025 ± 0.020 χ^2/NDF : 107.5/53

All: 0.003 ± 0.014 χ^2/NDF : 163.4/101

diff_cav4dX_rms vs Slug, Sign Corrected



Right In: 17.343+/-0.015 χ^2/NDF : 21433276.3/24

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

Right Out: 17.272+/-0.014 χ^2/NDF : 23418492.1/28

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

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

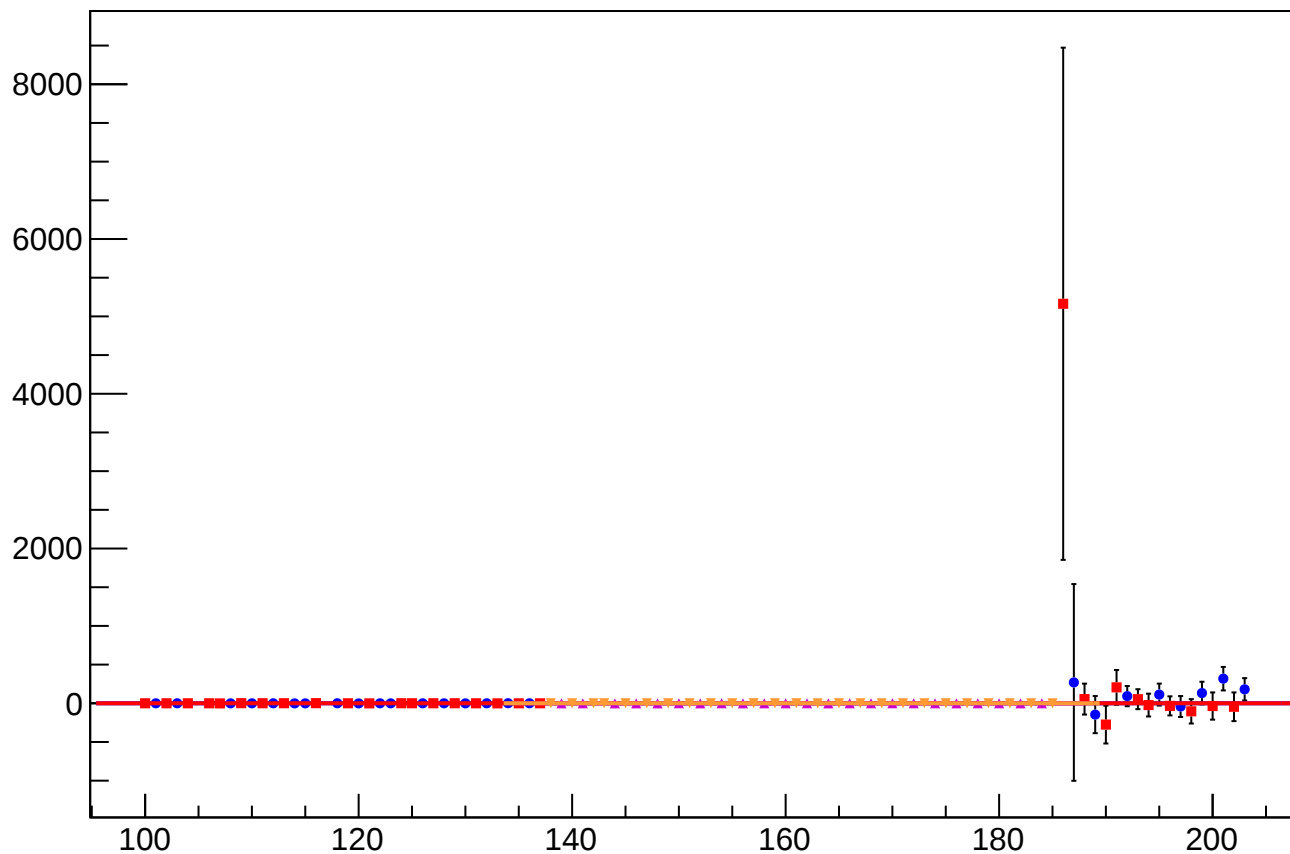
Right: 17.306+/-0.010 χ^2/NDF : 44851780.9/53

In: 19.135+/-0.015 χ^2/NDF :55735743.8/47

Out: 19.003+/-0.014 χ^2/NDF :59771477.9/53

All: 19.066+/-0.010 χ^2/NDF : 115507264.0/10

diff_cav4dY_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.002 χ^2 /NDF: 22.0/24

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

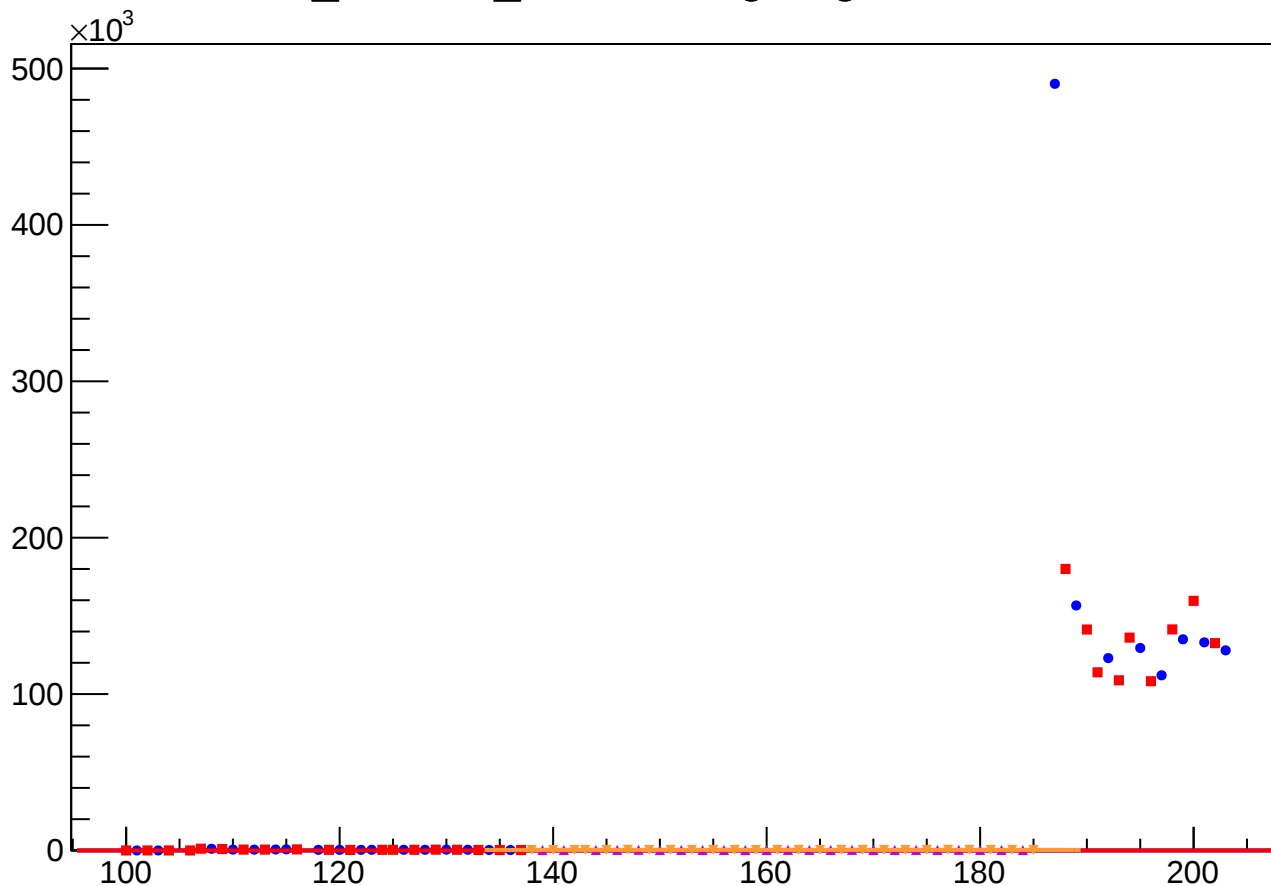
Right: -0.000 $\pm$ 0.001 χ^2 /NDF: 45.8/53

In: 0.000 $\pm$ 0.002 χ^2 /NDF:57.7/47

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

All: -0.000 $\pm$ 0.001 χ^2 /NDF: 102.5/101

diff_cav4dY_rms vs Slug, Sign Corrected



Right In: 1.699 $\pm$ 0.001 χ^2/NDF : 21784722.8/24

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

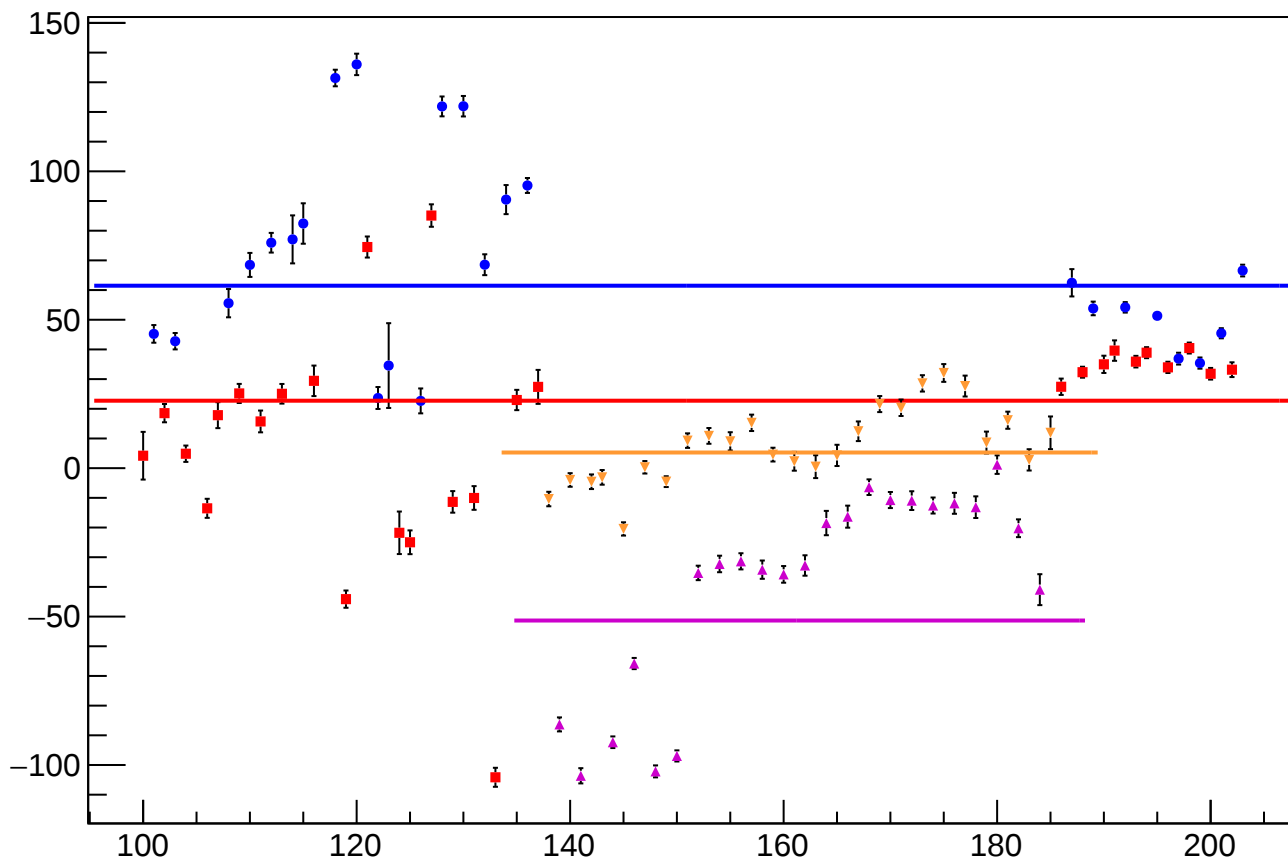
Right: 1.714 $\pm$ 0.001 χ^2/NDF : 44242443.2/52

In: 1.913 $\pm$ 0.001 χ^2/NDF : 55926847.7/47

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

All: 1.925 $\pm$ 0.001 χ^2/NDF : 114591997.1/100

diff_bpm0i01X_mean vs Slug, Sign Corrected



Right In: 61.468 $\pm$ 0.549 χ^2 /NDF: 2714.4/24

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

Right Out: 22.726 $\pm$ 0.529 χ^2 /NDF: 3464.2/28

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

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

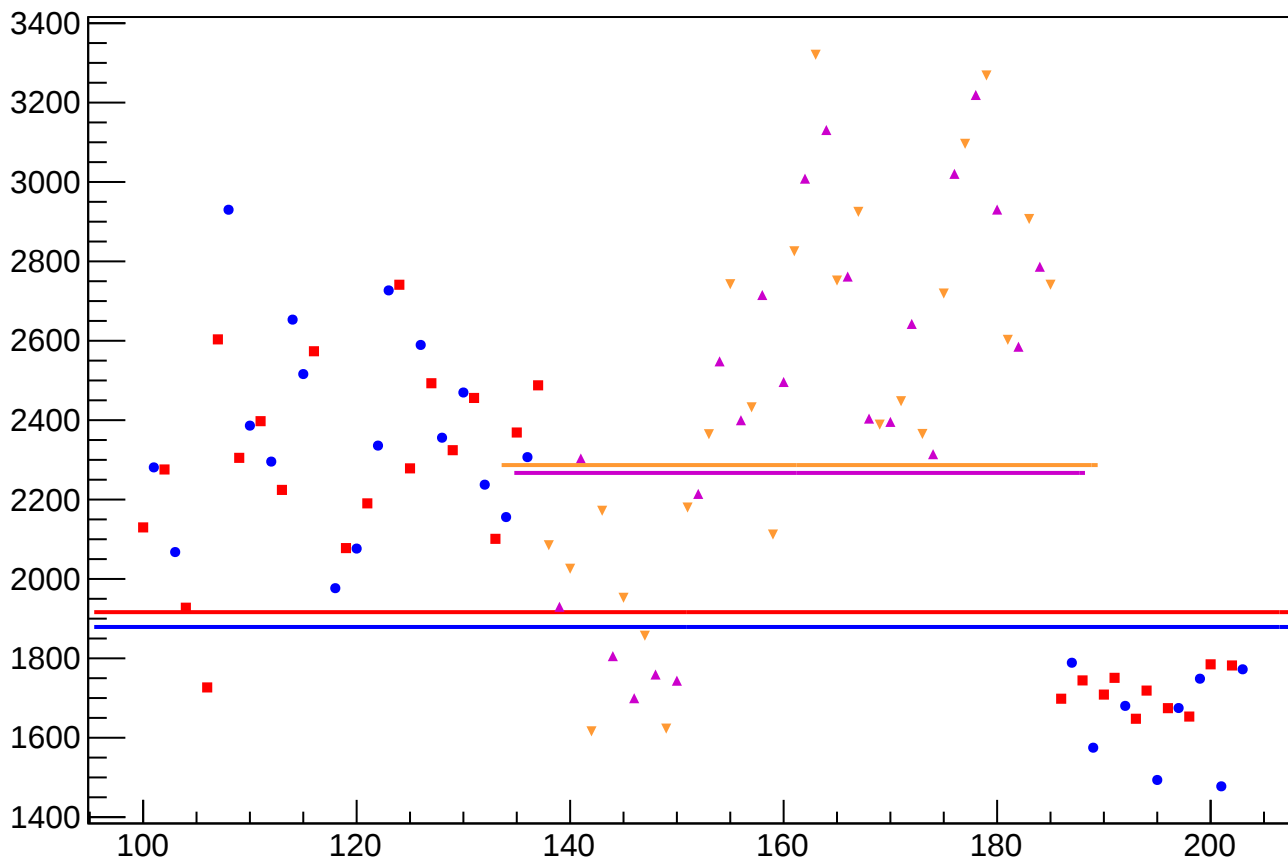
Right: 41.369 $\pm$ 0.381 χ^2 /NDF: 8761.2/53

In: 6.013 $\pm$ 0.392 χ^2 /NDF: 27718.3/47

Out: 14.250 $\pm$ 0.379 χ^2 /NDF: 4549.3/53

All: 10.262 $\pm$ 0.272 χ^2 /NDF: 32496.0/101

diff_bpm0i01X_rms vs Slug, Sign Corrected



Right In: 1879.037 $\pm$ 0.388 χ^2 /NDF: 844162.6/24

Left Out: 2286.871 $\pm$ 0.385 χ^2 /NDF:1360490.8/24

Right Out: 1916.389 $\pm$ 0.374 χ^2 /NDF: 622529.0/28

Left In: 2267.097 $\pm$ 0.395 χ^2 /NDF:1313364.4/22

Left: 2277.239 $\pm$ 0.276 χ^2 /NDF: 2675141.7/47

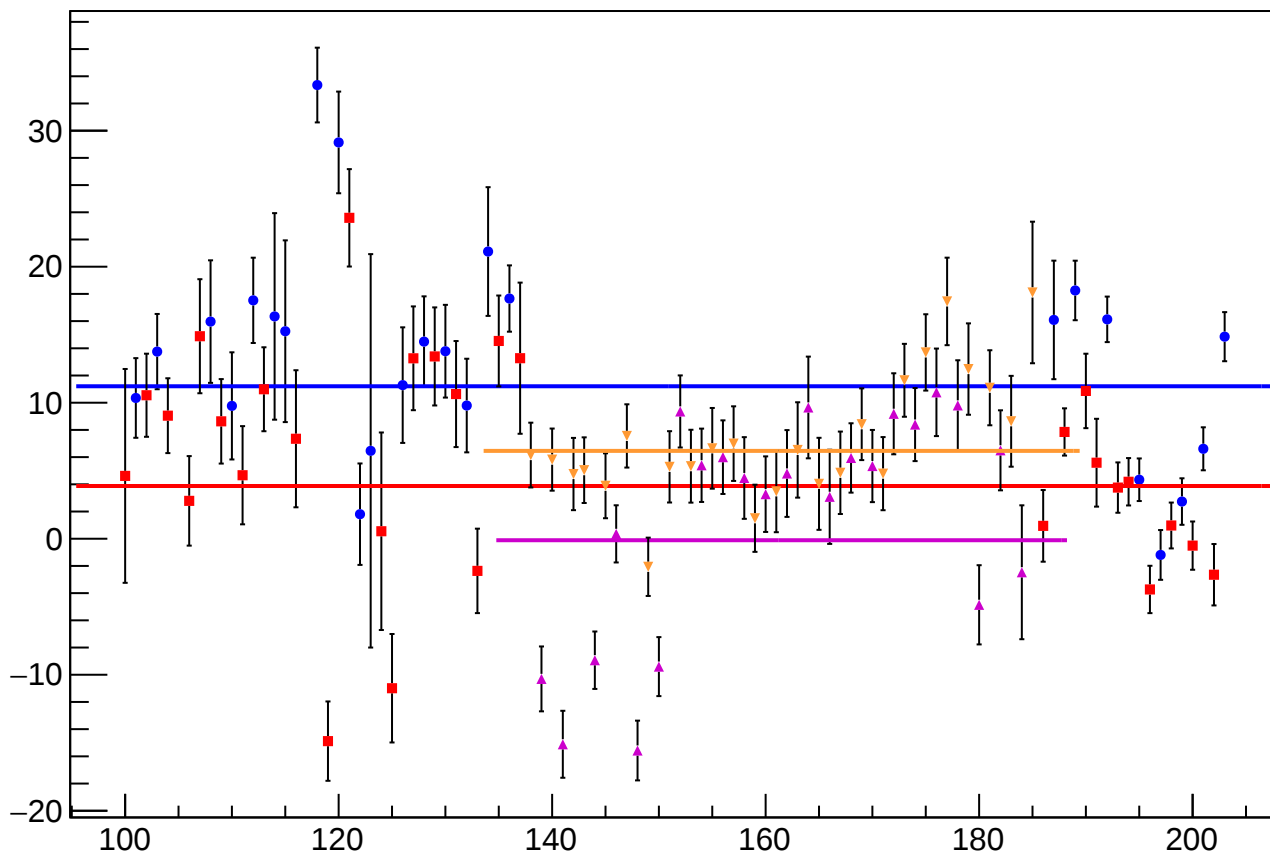
Right: 1898.415 $\pm$ 0.269 χ^2 /NDF: 1471492.7/53

In: 2069.825 $\pm$ 0.277 χ^2 /NDF:2648634.2/47

Out: 2096.335 $\pm$ 0.268 χ^2 /NDF:2459775.4/53

All: 2083.502 $\pm$ 0.193 χ^2 /NDF: 5113140.5/100

diff_bpm0i01Y_mean vs Slug, Sign Corrected



Right In: 11.209 ± 0.521 $\chi^2/\text{NDF}: 237.2/24$

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 $\chi^2/\text{NDF}: 363.0/47$

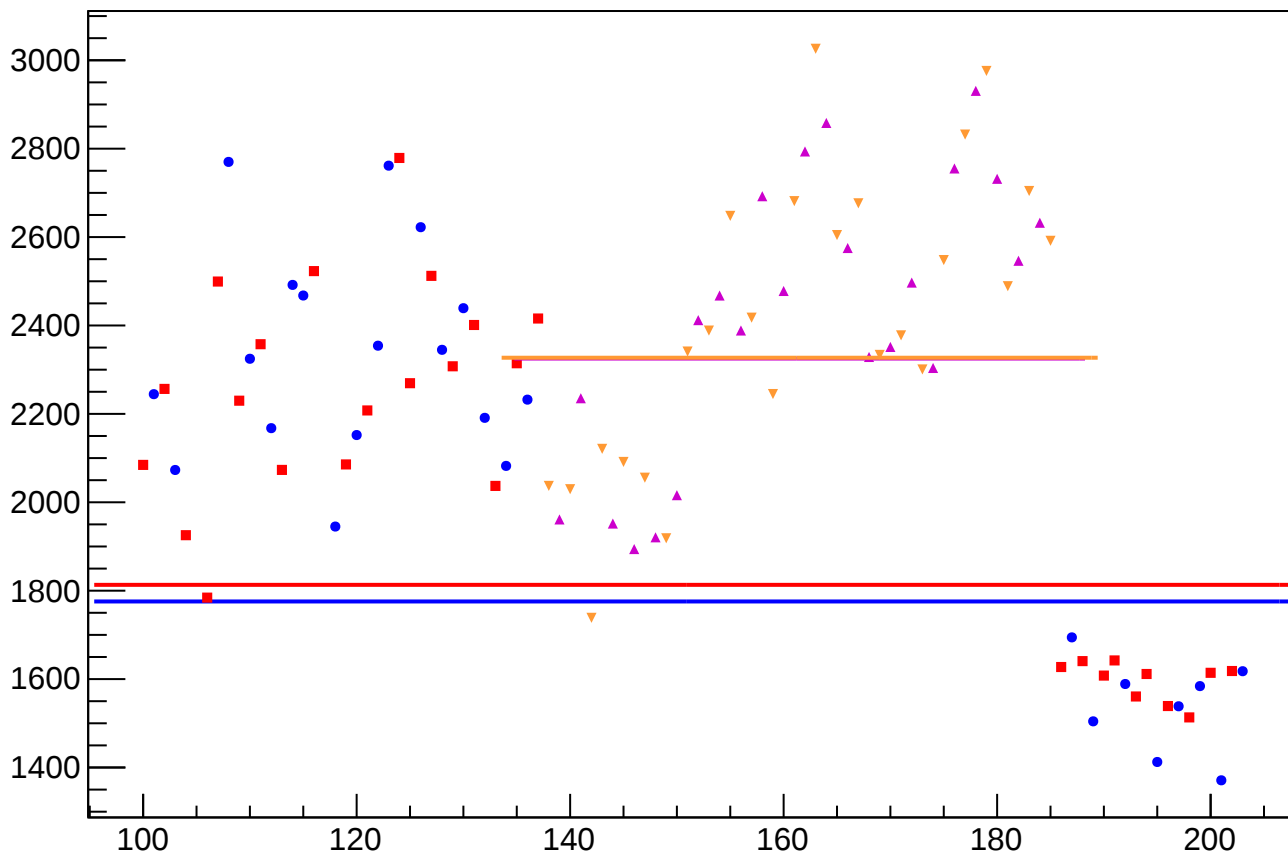
Right: 7.409 ± 0.361 $\chi^2/\text{NDF}: 532.2/53$

In: 6.011 ± 0.383 $\chi^2/\text{NDF}: 688.7/47$

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

All: 5.517 ± 0.266 $\chi^2/\text{NDF}: 955.0/101$

diff_bpm0i01Y_rms vs Slug, Sign Corrected



Right In: 1775.621+/-0.368 χ^2/NDF : 1057033.9/24

Left Out: 2327.044+/-0.387 χ^2/NDF : 646706.7/24

Right Out: 1813.215+/-0.355 χ^2/NDF : 833046.5/28

Left In: 2325.175+/-0.400 χ^2/NDF : 610729.2/22

Left: 2326.139+/-0.278 χ^2/NDF : 1257447.2/47

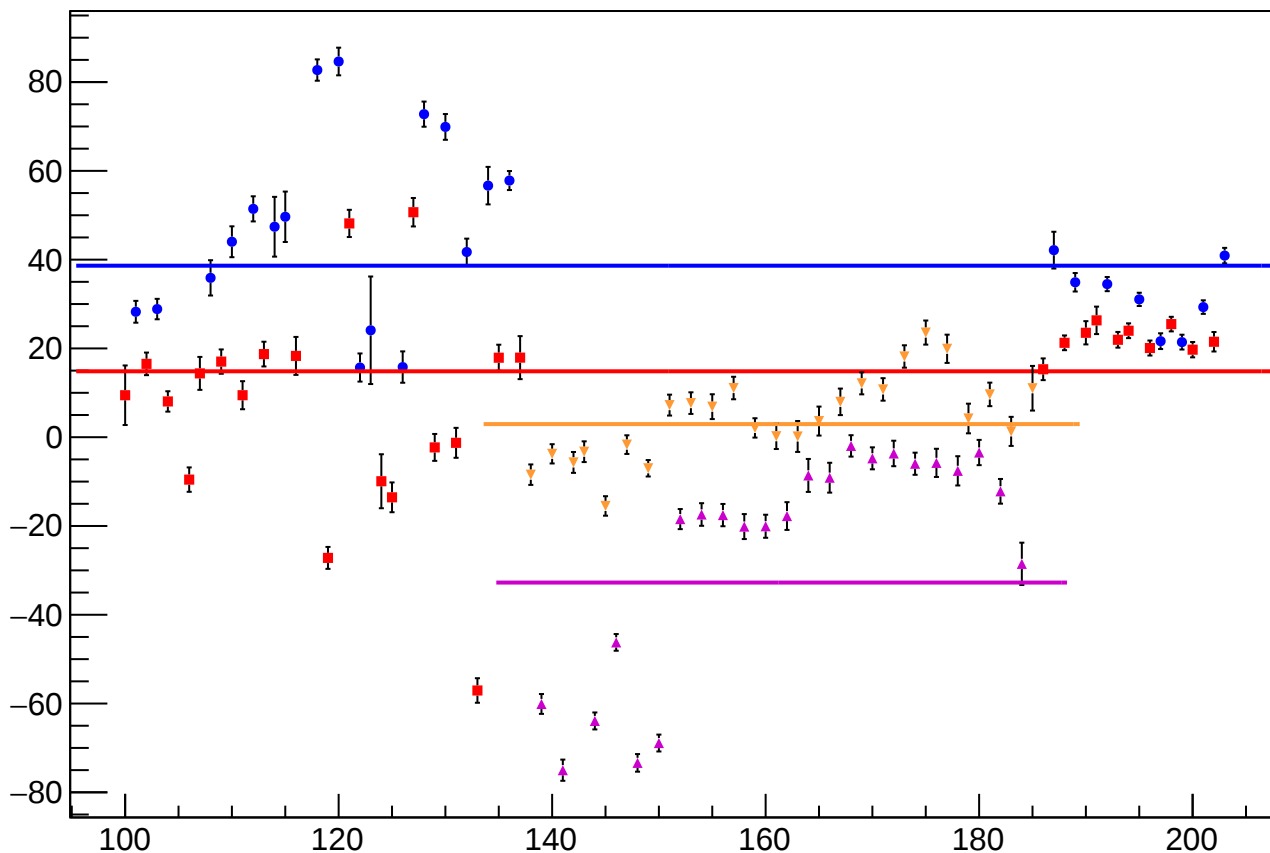
Right: 1795.105+/-0.256 χ^2/NDF : 1895481.7/53

In: 2027.984+/-0.271 χ^2/NDF : 2690444.4/47

Out: 2047.915+/-0.262 χ^2/NDF : 2436489.3/53

All: 2038.291+/-0.188 χ^2/NDF : 5129734.9/10

diff_bpm0i01aX_mean vs Slug, Sign Corrected



Right In: 38.637 ± 0.481 $\chi^2/\text{NDF}: 1348.7/24$

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

Right Out: 14.847 ± 0.462 $\chi^2/\text{NDF}: 1602.4/28$

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

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

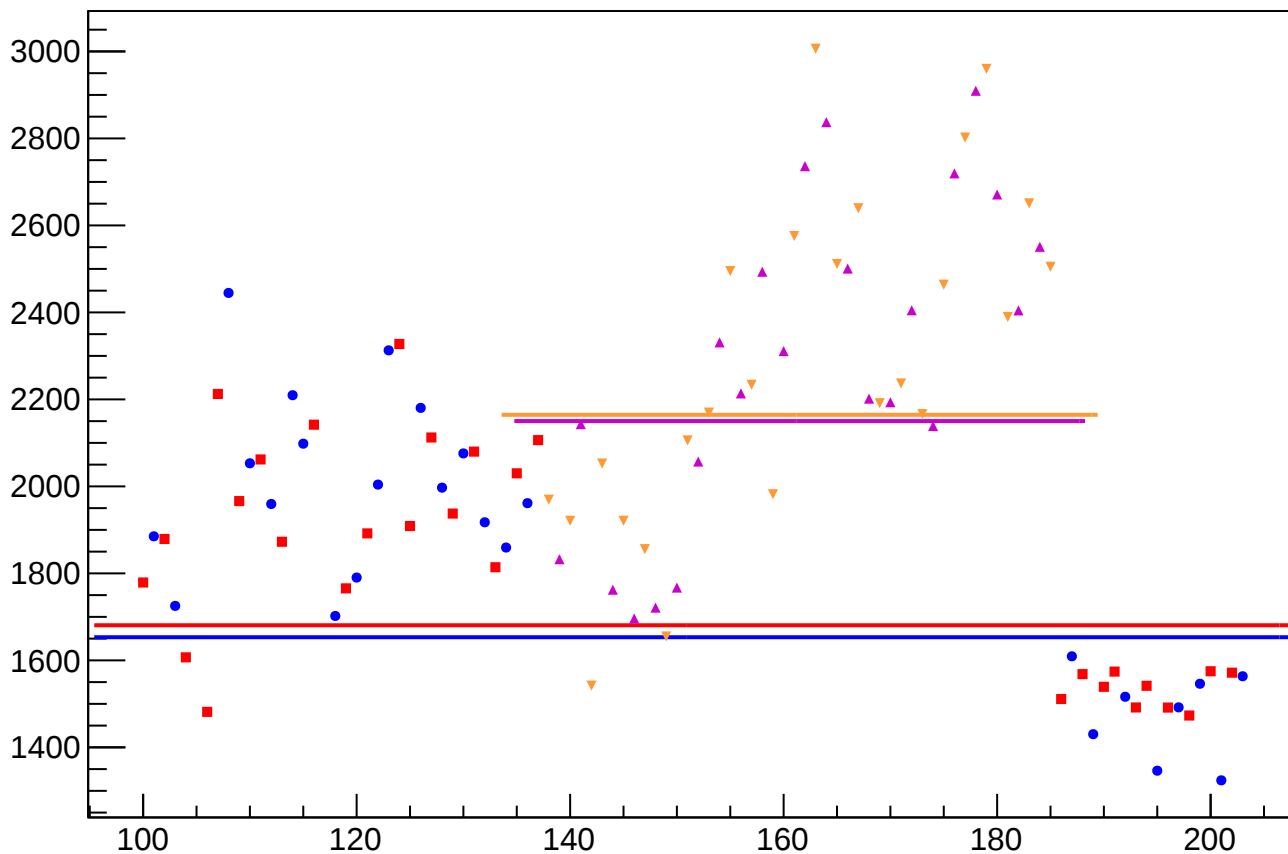
Right: 26.278 ± 0.333 $\chi^2/\text{NDF}: 4224.0/53$

In: 6.166 ± 0.355 $\chi^2/\text{NDF}: 14015.6/47$

Out: 9.505 ± 0.343 $\chi^2/\text{NDF}: 2237.6/53$

All: 7.892 ± 0.247 $\chi^2/\text{NDF}: 16299.0/101$

diff_bpm0i01aX_rms vs Slug, Sign Corrected



Right In: 1653.193 ± 0.340 $\chi^2/\text{NDF}: 632737.5/24$

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 $\chi^2/\text{NDF}: 1878220.9/47$

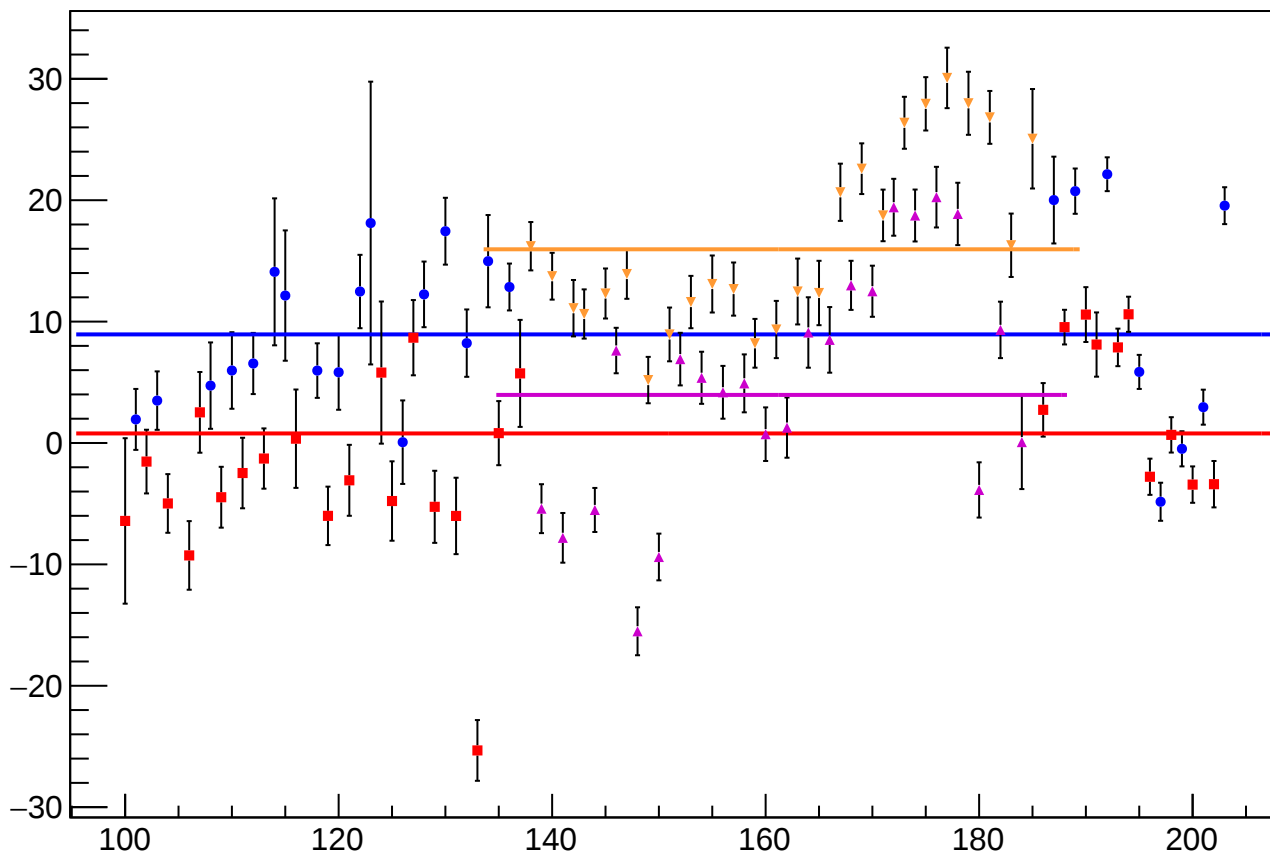
Right: 1667.506 ± 0.236 $\chi^2/\text{NDF}: 1090006.1/53$

In: 1879.276 ± 0.251 $\chi^2/\text{NDF}: 2517430.7/47$

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

All: 1888.968 ± 0.174 $\chi^2/\text{NDF}: 4923971.4/100$

diff_bpm0i01aY_mean vs Slug, Sign Corrected



Right In: 8.946 $\pm$ 0.440 χ^2/NDF : 376.2/24

Left Out: 15.956 $\pm$ 0.447 χ^2/NDF :245.2/24

Right Out: 0.786 $\pm$ 0.418 χ^2/NDF : 316.0/28

Left In: 3.960 $\pm$ 0.463 χ^2/NDF :464.9/22

Left: 10.161 $\pm$ 0.322 χ^2/NDF : 1057.3/47

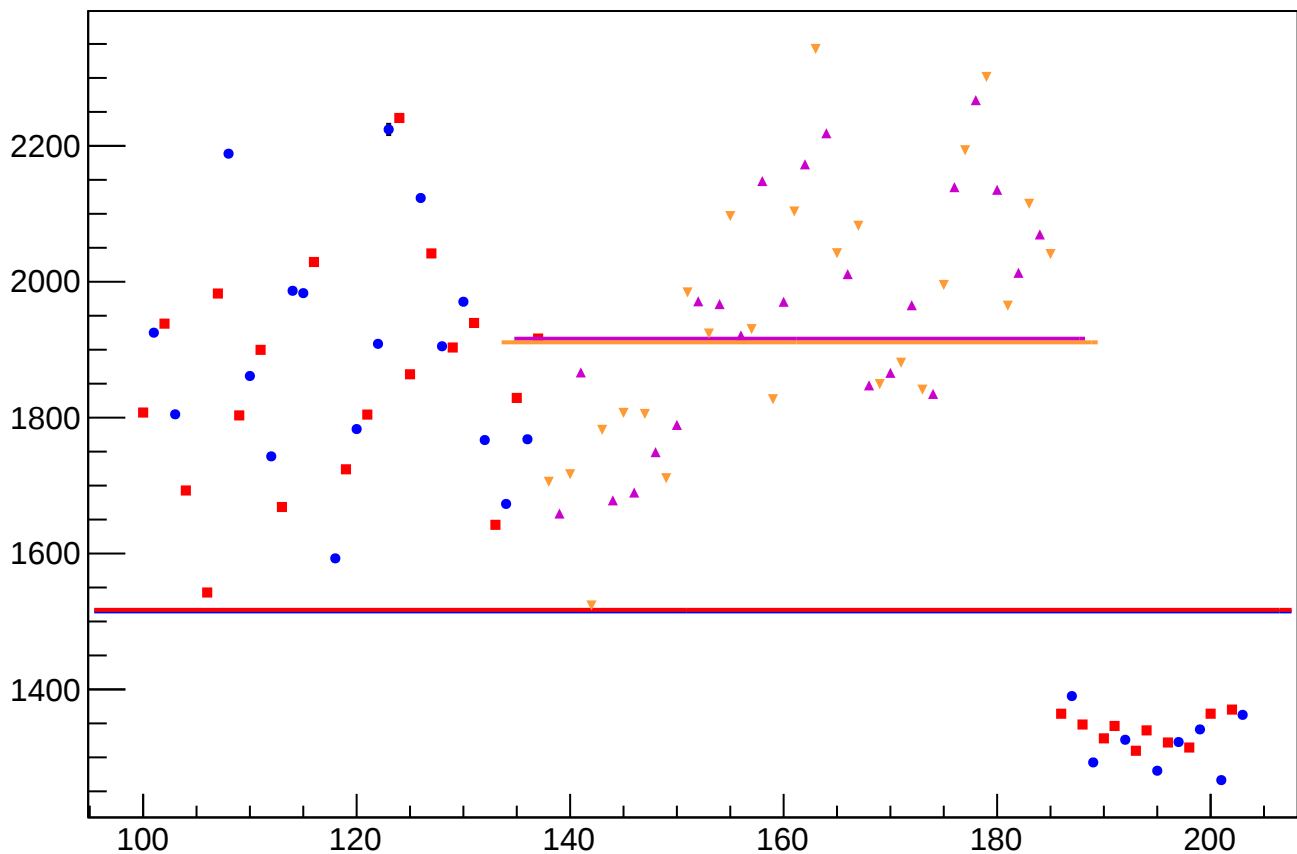
Right: 4.658 $\pm$ 0.303 χ^2/NDF : 872.6/53

In: 6.577 $\pm$ 0.319 χ^2/NDF :902.0/47

Out: 7.865 $\pm$ 0.306 χ^2/NDF :1174.3/53

All: 7.248 $\pm$ 0.221 χ^2/NDF : 2084.8/101

diff_bpm0i01aY_rms vs Slug, Sign Corrected



Right In: 1514.852 $\pm$ 0.311 χ^2 /NDF: 756170.6/24

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

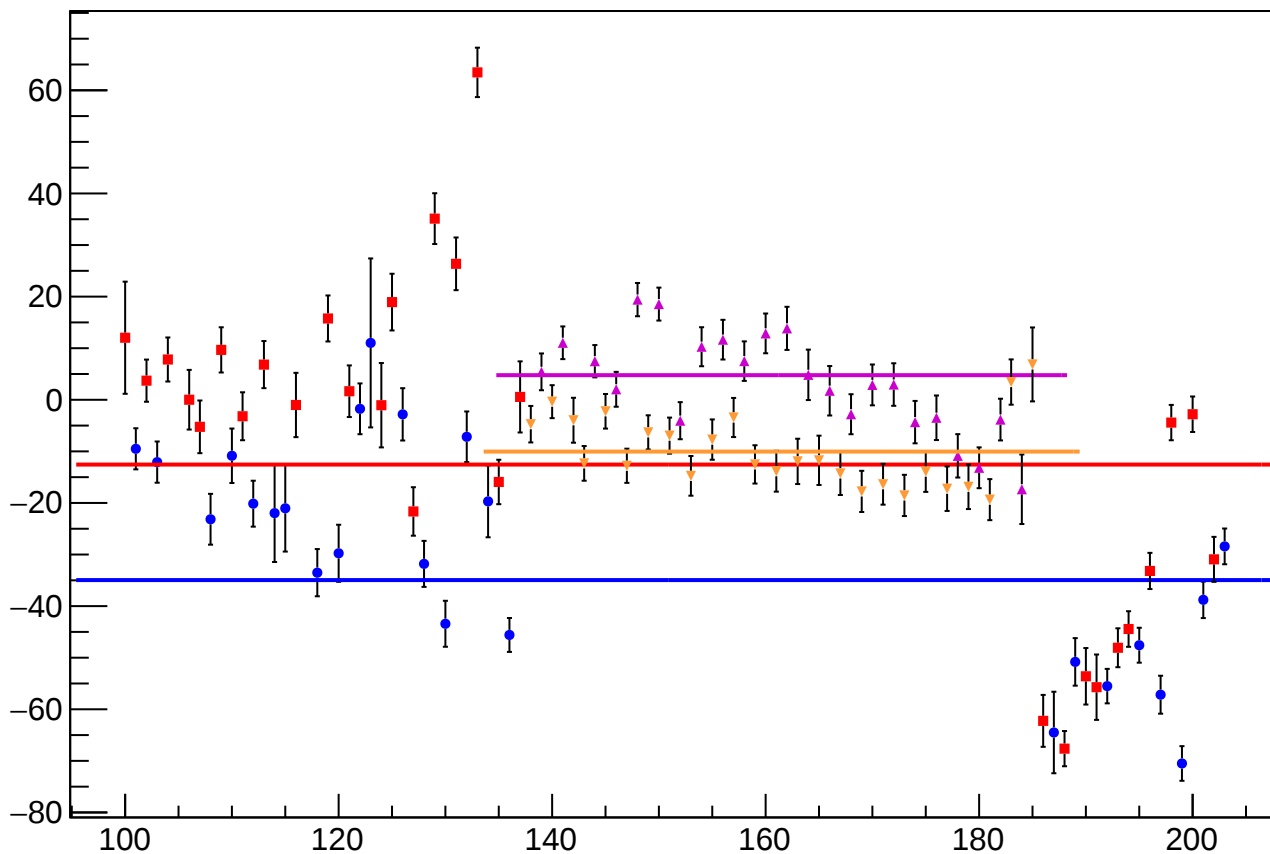
Right: 1516.038 $\pm$ 0.214 χ^2 /NDF: 1456603.6/53

In: 1705.514 $\pm$ 0.226 χ^2 /NDF:1819716.2/47

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

All: 1703.075 $\pm$ 0.156 χ^2 /NDF: 3675566.0/100

diff_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -34.954 ± 0.889 $\chi^2/\text{NDF}: 492.7/24$

Left Out: -10.042 ± 0.776 $\chi^2/\text{NDF}: 67.1/24$

Right Out: -12.559 ± 0.849 $\chi^2/\text{NDF}: 1297.0/28$

Left In: 4.774 ± 0.800 $\chi^2/\text{NDF}: 128.5/22$

Left: -2.861 ± 0.557 $\chi^2/\text{NDF}: 372.2/47$

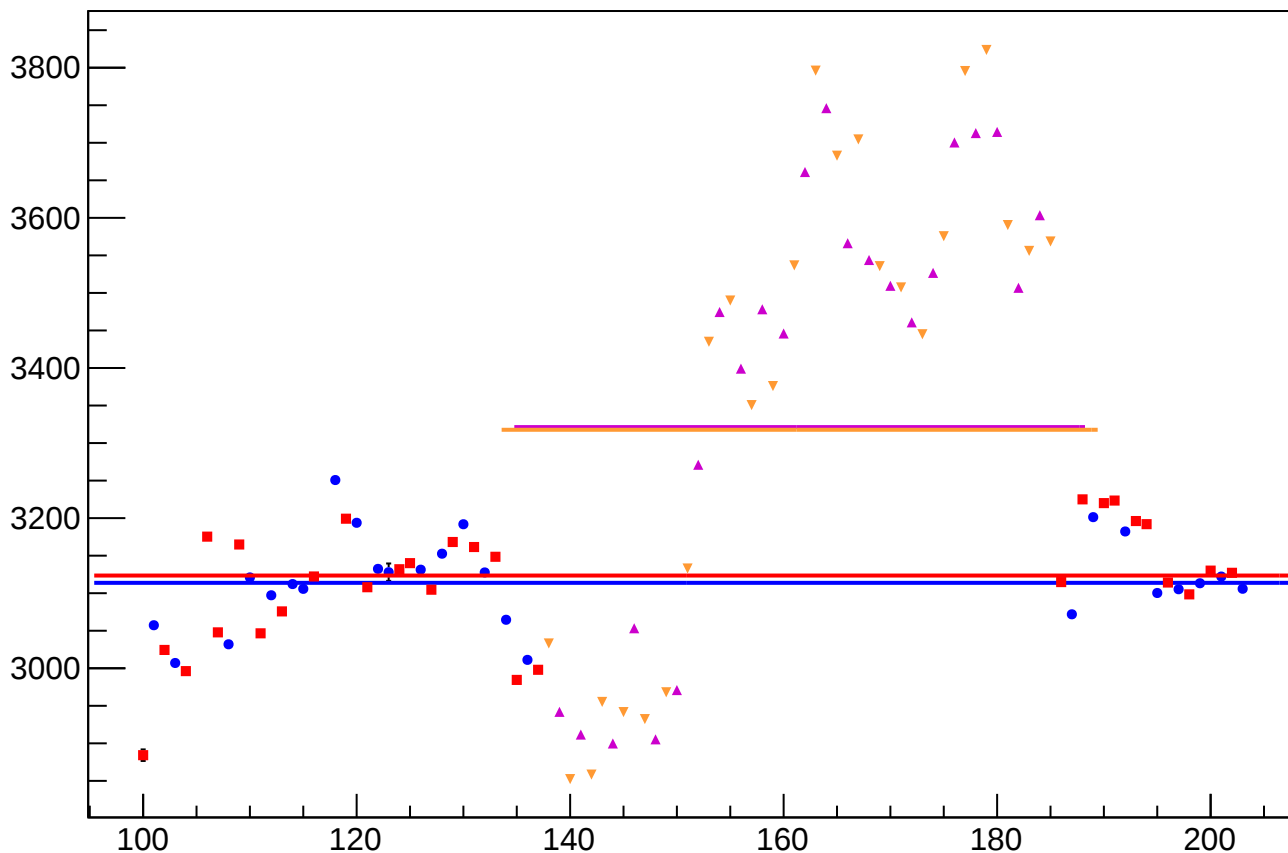
Right: -23.239 ± 0.614 $\chi^2/\text{NDF}: 2121.3/53$

In: -13.004 ± 0.595 $\chi^2/\text{NDF}: 1723.4/47$

Out: -11.187 ± 0.573 $\chi^2/\text{NDF}: 1368.9/53$

All: -12.062 ± 0.413 $\chi^2/\text{NDF}: 3097.2/101$

diff_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 3113.811 $\pm$ 0.629 χ^2 /NDF: 9189.3/24

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

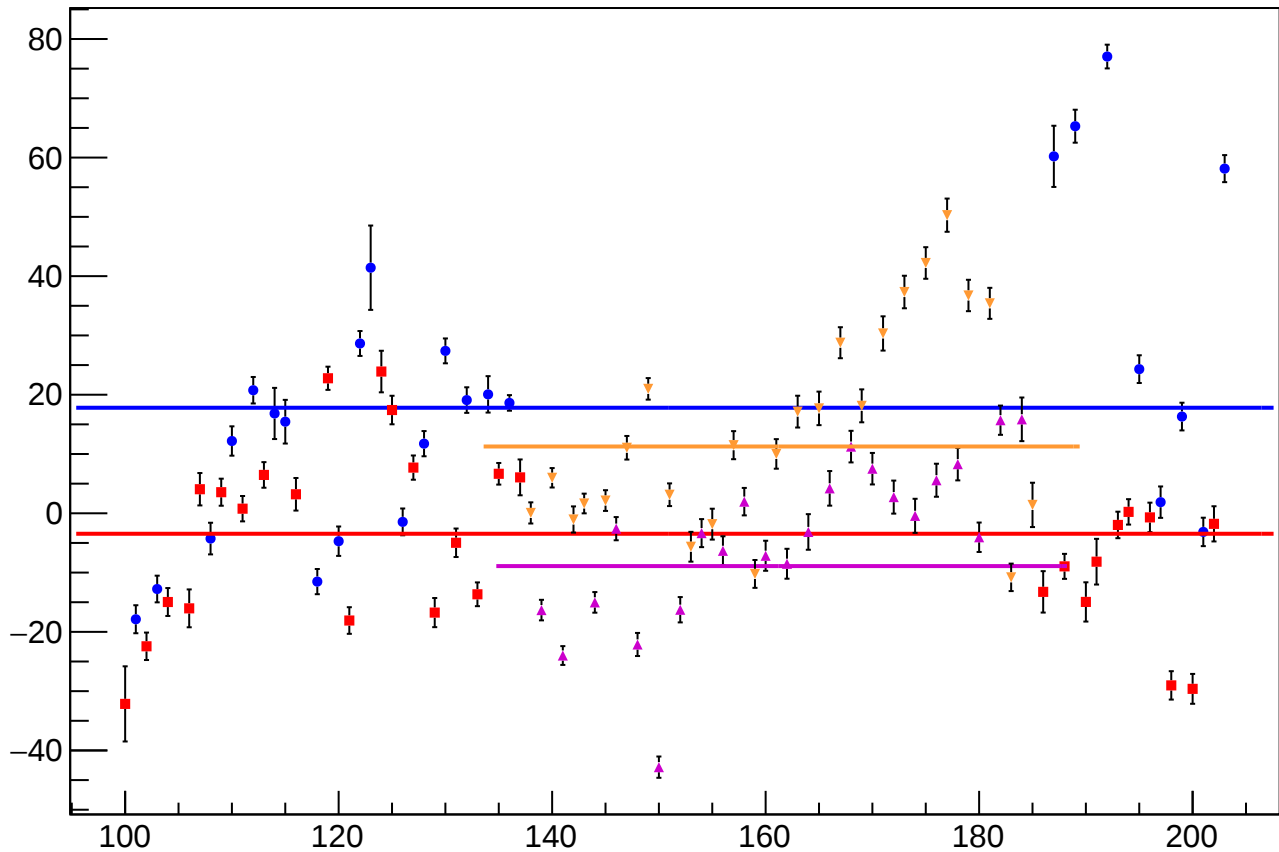
Right: 3118.894 $\pm$ 0.434 χ^2 /NDF: 23059.1/53

In: 3228.435 $\pm$ 0.421 χ^2 /NDF:353642.9/47

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

All: 3228.885 $\pm$ 0.292 χ^2 /NDF: 761223.4/101

diff_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: 17.803+/-0.473 χ^2/NDF : 2568.8/24

Left Out: 11.268+/-0.454 χ^2/NDF :1141.8/24

Right Out: -3.452+/-0.455 χ^2/NDF : 914.6/28

Left In: -8.905+/-0.478 χ^2/NDF :936.3/22

Left: 1.682+/-0.329 χ^2/NDF : 3014.7/47

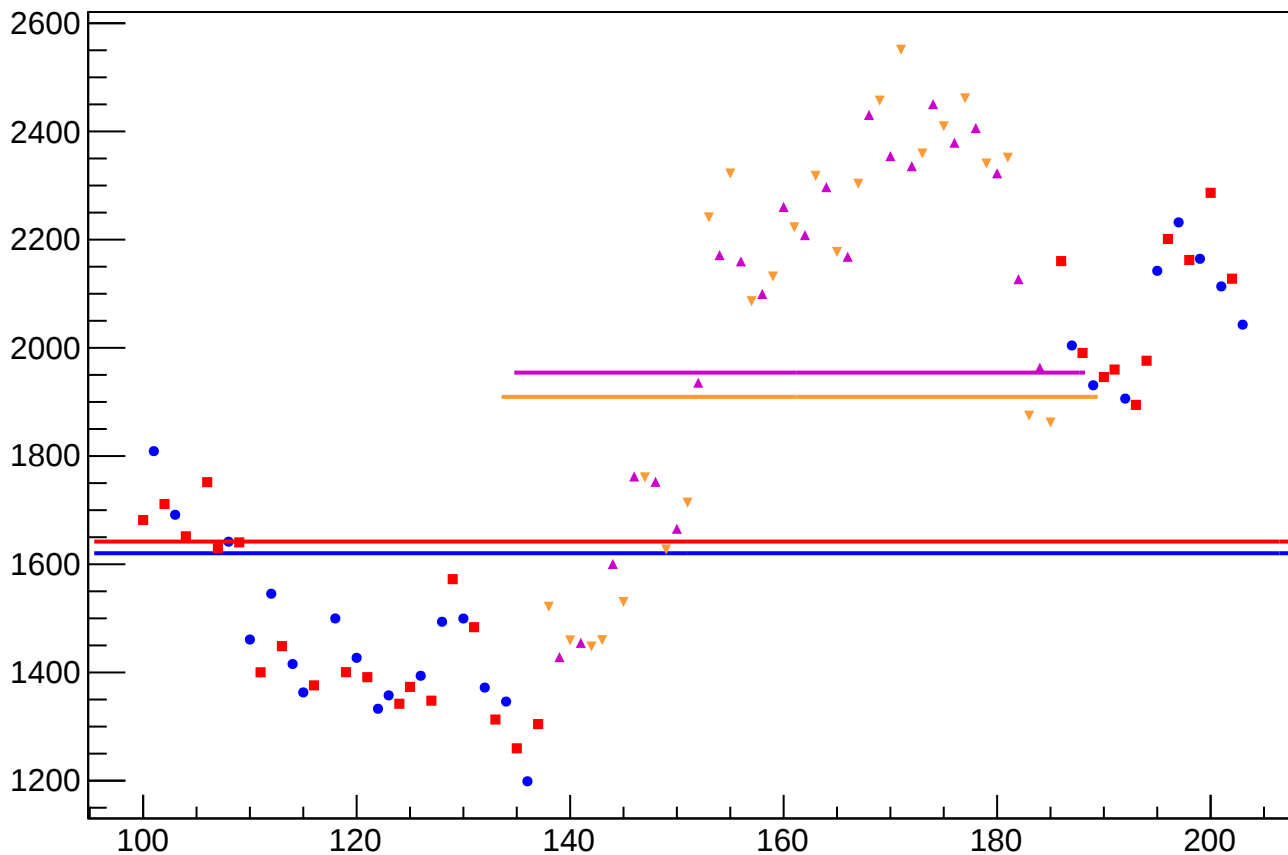
Right: 6.777+/-0.328 χ^2/NDF : 4532.1/53

In: 4.583+/-0.336 χ^2/NDF :5084.9/47

Out: 3.924+/-0.322 χ^2/NDF :2580.0/53

All: 4.239+/-0.232 χ^2/NDF : 7667.0/101

diff_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 1620.376 ± 0.334 $\chi^2/\text{NDF}: 925408.8/24$

Left Out: 1909.387 ± 0.321 $\chi^2/\text{NDF}: 1398498.0/24$

Right Out: 1641.923 ± 0.322 $\chi^2/\text{NDF}: 961433.0/28$

Left In: 1954.236 ± 0.338 $\chi^2/\text{NDF}: 1044826.7/22$

Left: 1930.697 ± 0.233 $\chi^2/\text{NDF}: 2452584.2/47$

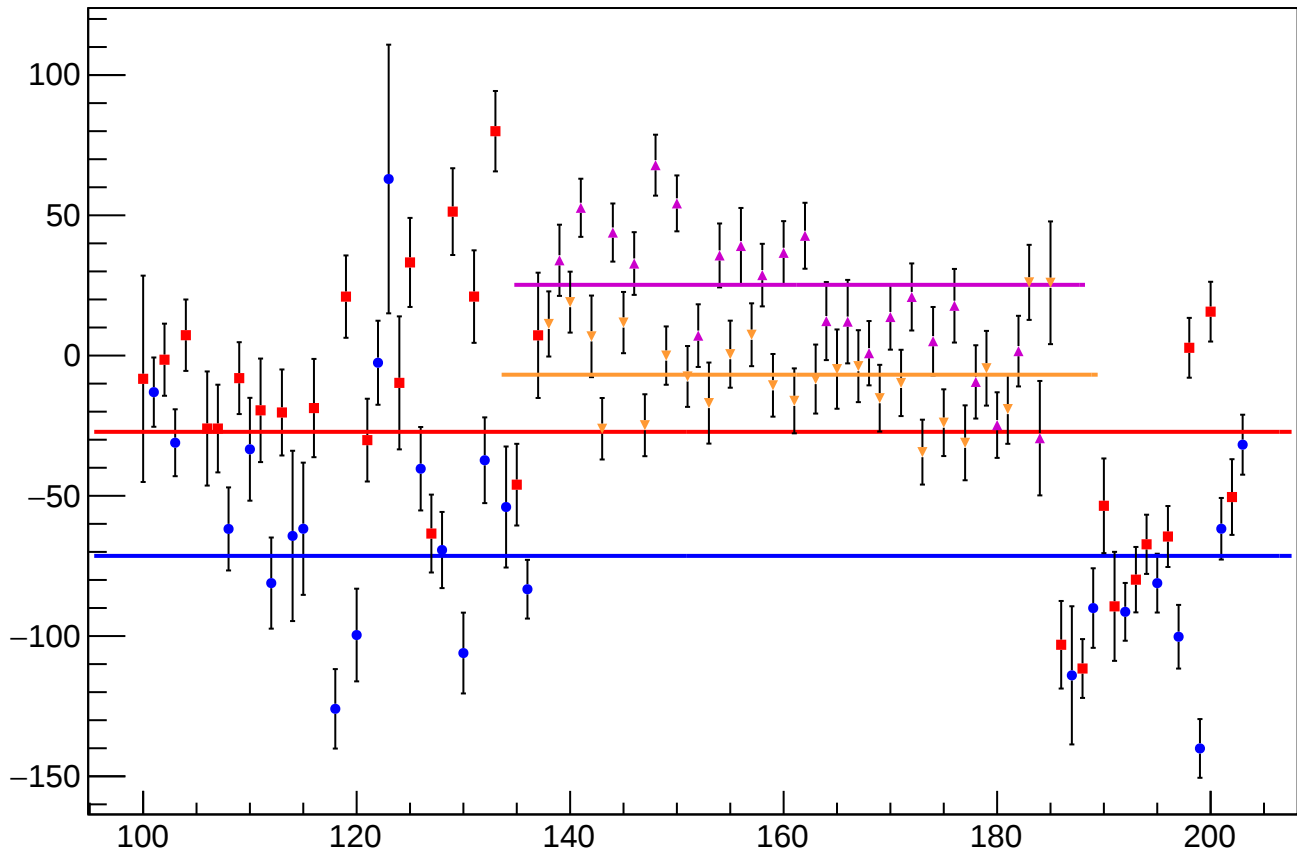
Right: 1631.554 ± 0.232 $\chi^2/\text{NDF}: 1888997.2/53$

In: 1785.629 ± 0.238 $\chi^2/\text{NDF}: 2463963.0/47$

Out: 1775.942 ± 0.227 $\chi^2/\text{NDF}: 2705703.8/53$

All: 1780.575 ± 0.164 $\chi^2/\text{NDF}: 5170534.2/100$

diff_bpm0l02X_mean vs Slug, Sign Corrected



Right In: -71.419 ± 2.766 χ^2/NDF : 176.2/24

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

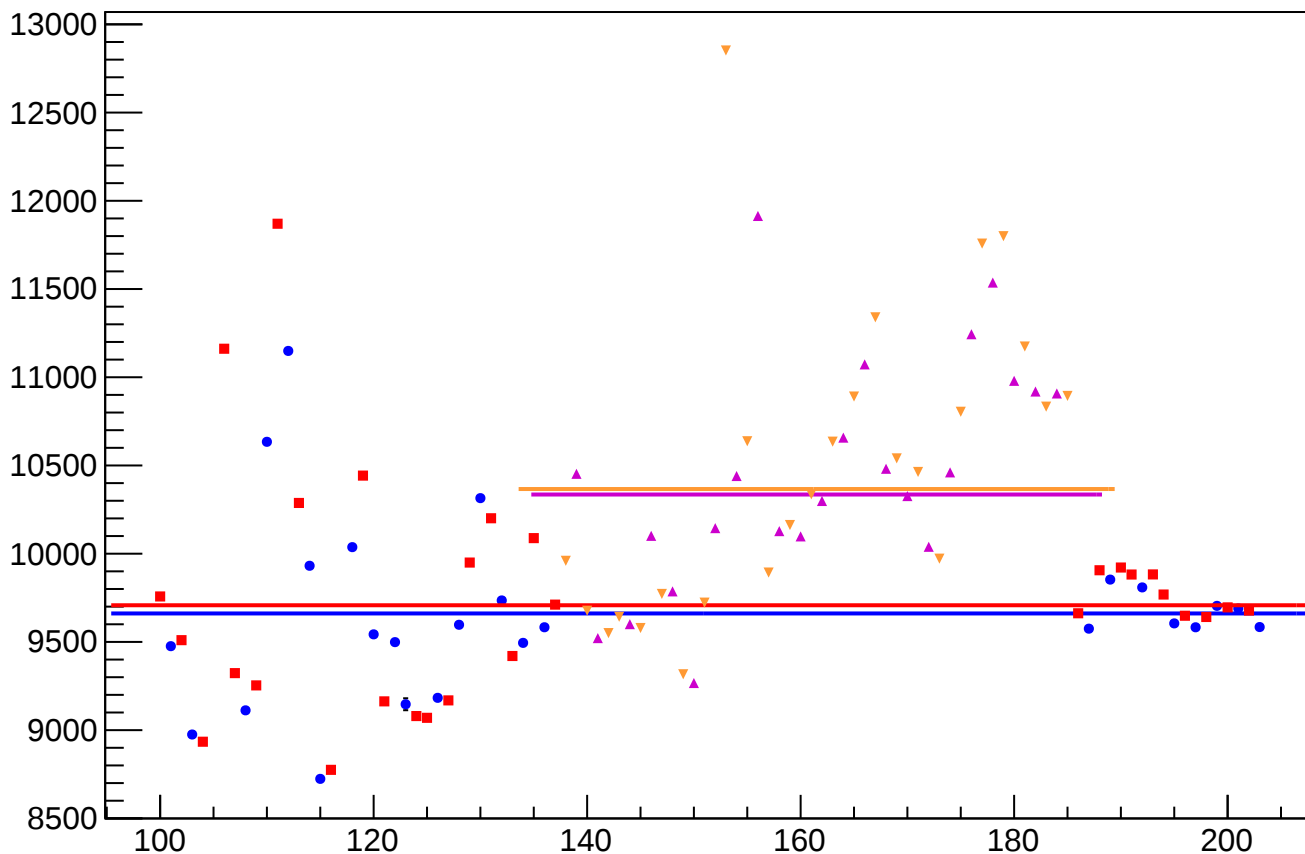
Right: -48.326 ± 1.912 χ^2/NDF : 625.8/53

In: -17.981 ± 1.849 χ^2/NDF : 940.5/47

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

All: -17.015 ± 1.285 χ^2/NDF : 1331.8/101

diff_bpm0l02X_rms vs Slug, Sign Corrected



Right In: 9661.360+/-1.956 χ^2/NDF : 45132.0/24

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

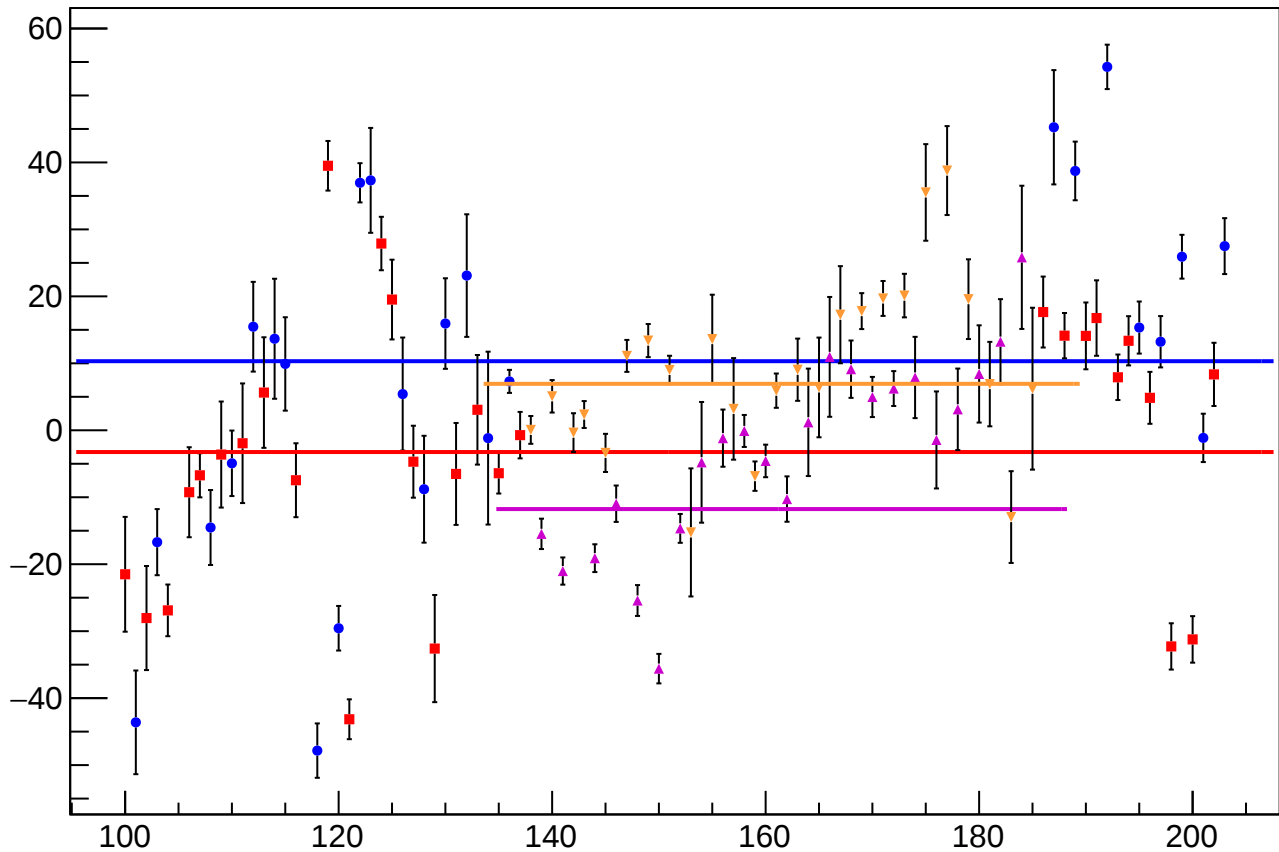
Right: 9685.618+/-1.352 χ^2/NDF : 124920.2/53

In: 10034.102+/-1.308 χ^2/NDF : 237995.1/47

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

All: 10050.665+/-0.909 χ^2/NDF : 596638.3/100

diff_bpm0l02Y_mean vs Slug, Sign Corrected



Right In: 10.318 $\pm$ 0.846 χ^2/NDF : 851.0/24

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

Right Out: -3.248 $\pm$ 0.824 χ^2/NDF : 704.0/28

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

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

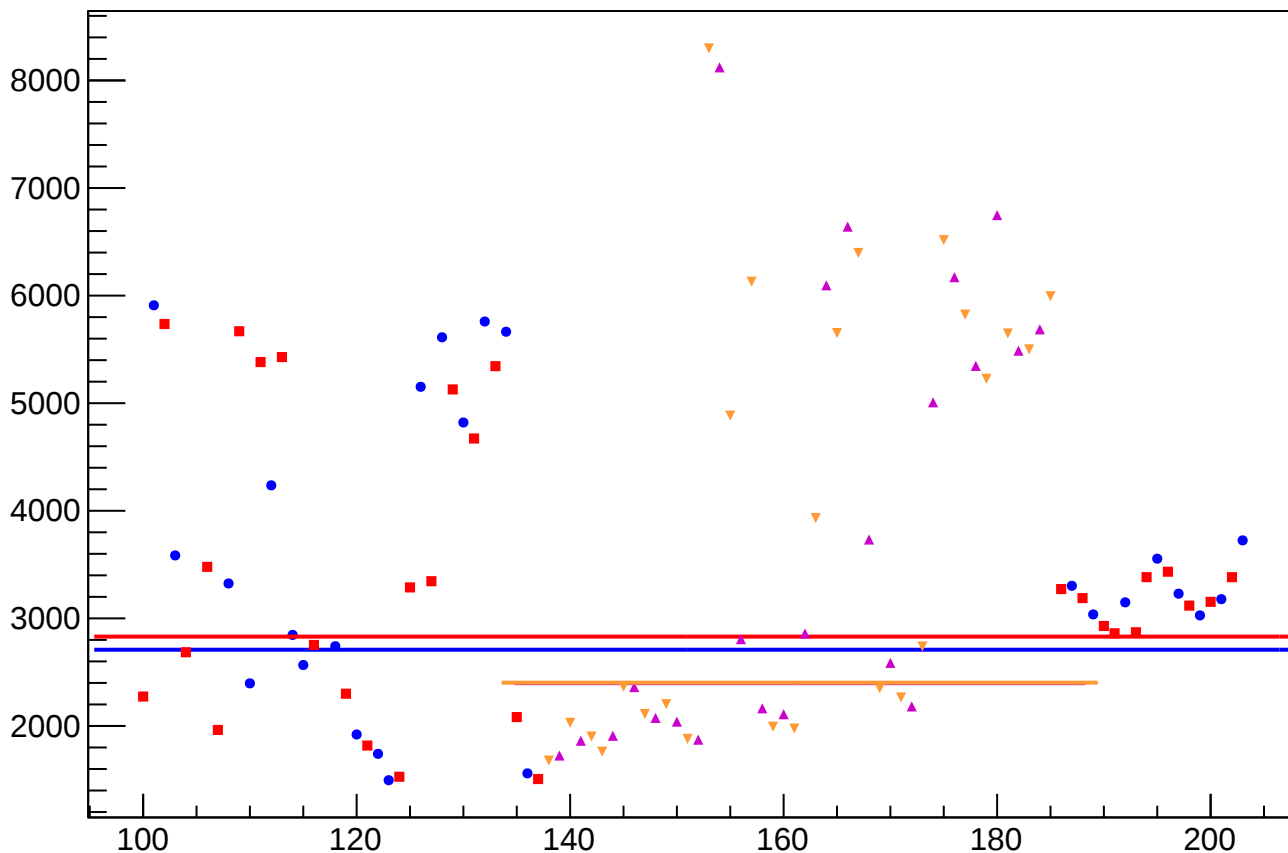
Right: 3.357 $\pm$ 0.590 χ^2/NDF : 1686.9/53

In: -3.597 $\pm$ 0.515 χ^2/NDF :1675.3/47

Out: 3.116 $\pm$ 0.505 χ^2/NDF :1003.2/53

All: -0.176 $\pm$ 0.360 χ^2/NDF : 2765.2/101

diff_bpm0l02Y_rms vs Slug, Sign Corrected



Right In: 2708.518 ± 0.598 $\chi^2/\text{NDF}: 3127877.0/24$

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 $\chi^2/\text{NDF}: 11744955.3/47$

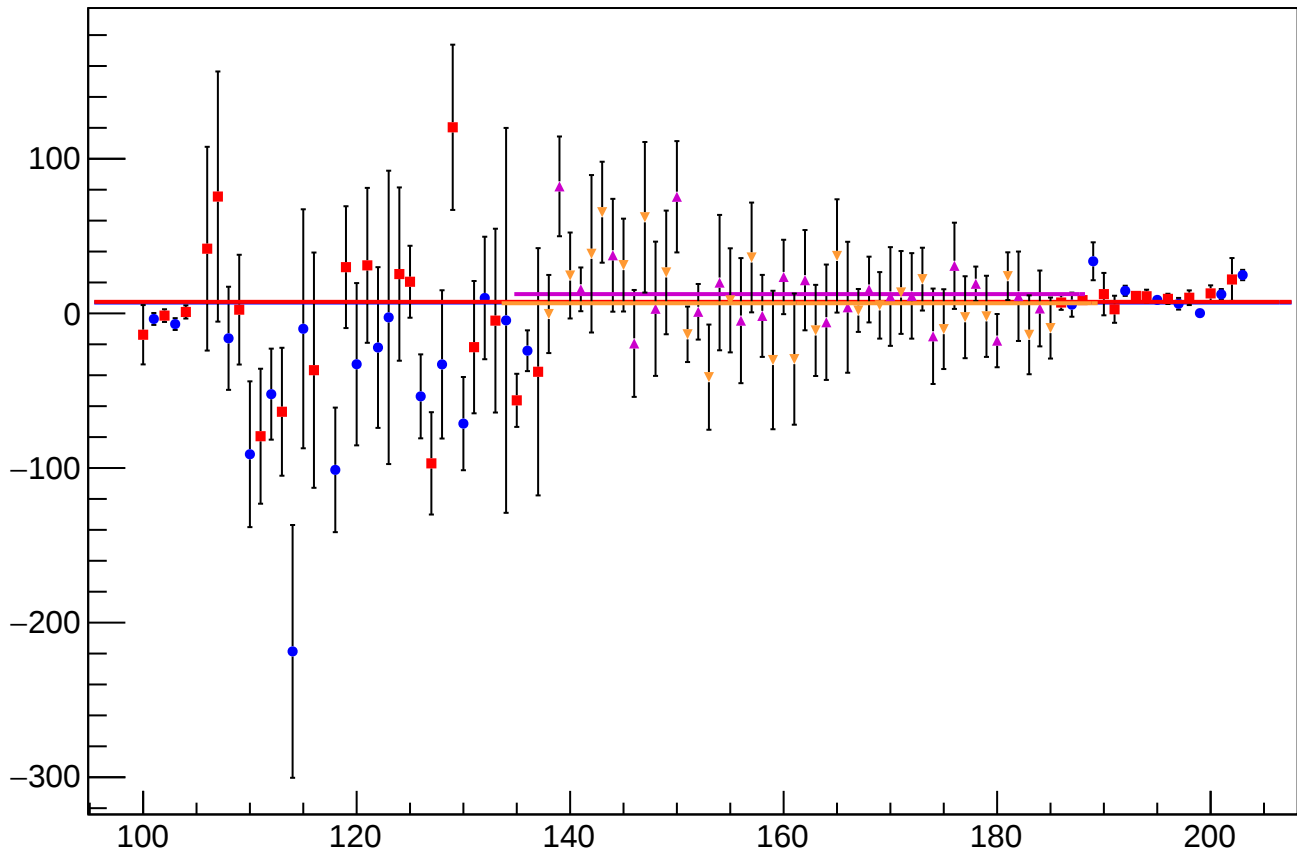
Right: 2771.087 ± 0.417 $\chi^2/\text{NDF}: 5805222.9/53$

In: 2512.676 ± 0.364 $\chi^2/\text{NDF}: 8696823.7/47$

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

All: 2538.318 ± 0.255 $\chi^2/\text{NDF}: 18045674.9/100$

diff_bpm0l03X_mean vs Slug, Sign Corrected



Right In: 7.030 $\pm$ 1.186 χ^2 /NDF: 109.5/24

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

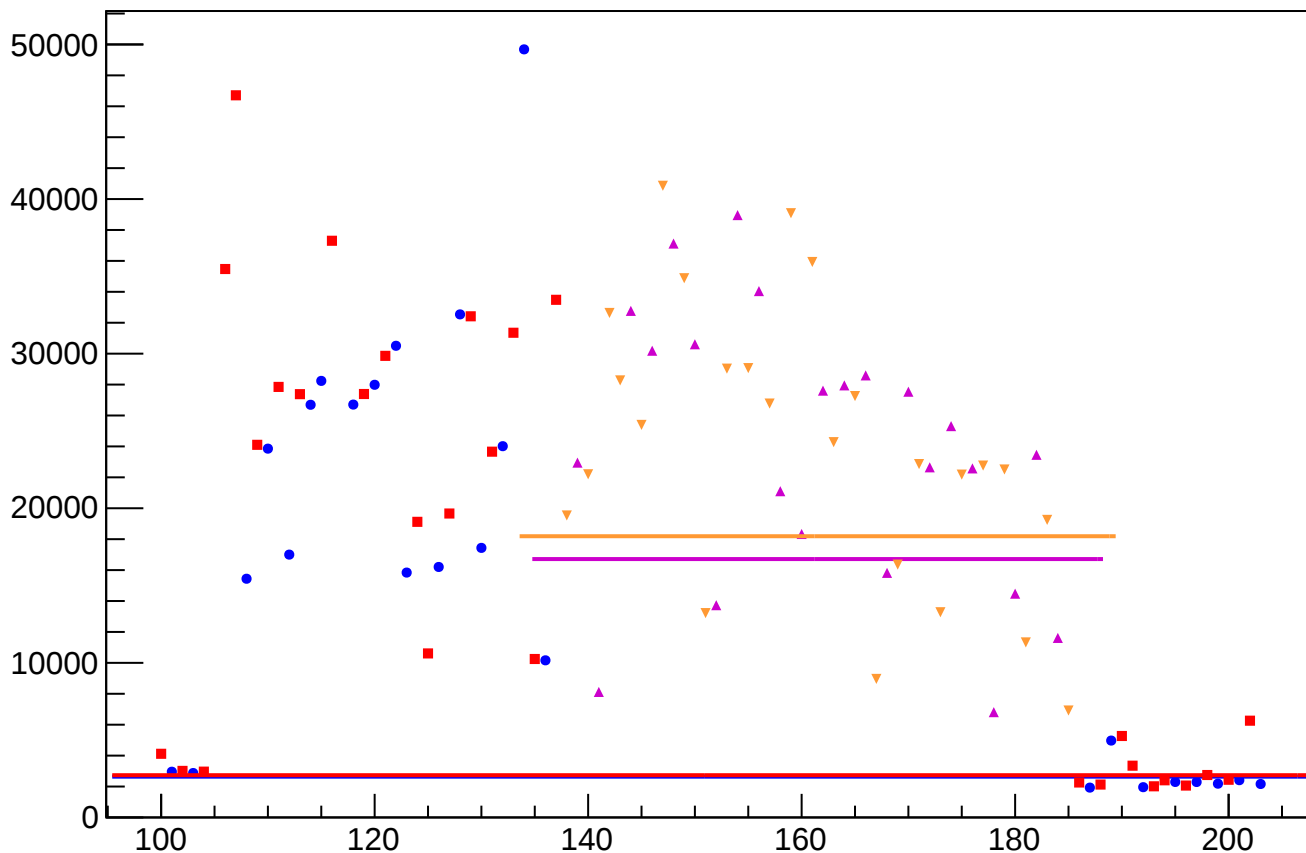
Right: 7.243 $\pm$ 0.857 χ^2 /NDF: 161.9/53

In: 7.317 $\pm$ 1.154 χ^2 /NDF:126.0/47

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

All: 7.368 $\pm$ 0.834 χ^2 /NDF: 195.1/101

diff_bpm0l03X_rms vs Slug, Sign Corrected



Right In: 2640.024 ± 0.839 $\chi^2/\text{NDF}: 6968150.6/24$

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 $\chi^2/\text{NDF}: 11540970.2/47$

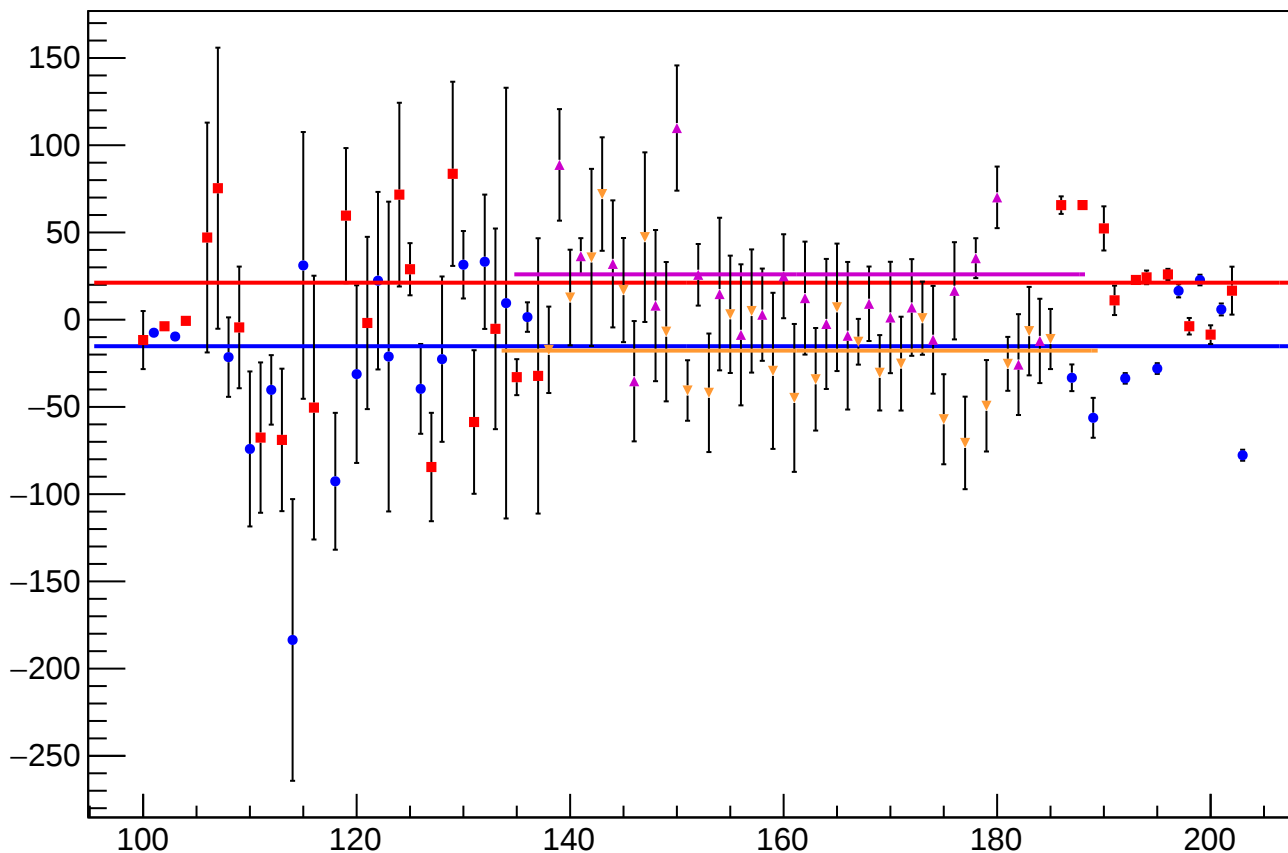
Right: 2684.485 ± 0.606 $\chi^2/\text{NDF}: 15652004.0/53$

In: 3382.758 ± 0.816 $\chi^2/\text{NDF}: 28020838.8/47$

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

All: 3488.434 ± 0.589 $\chi^2/\text{NDF}: 59487038.7/100$

diff_bpm0l03Y_mean vs Slug, Sign Corrected



Right In: -15.199 ± 1.043 χ^2/NDF : 765.2/24

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

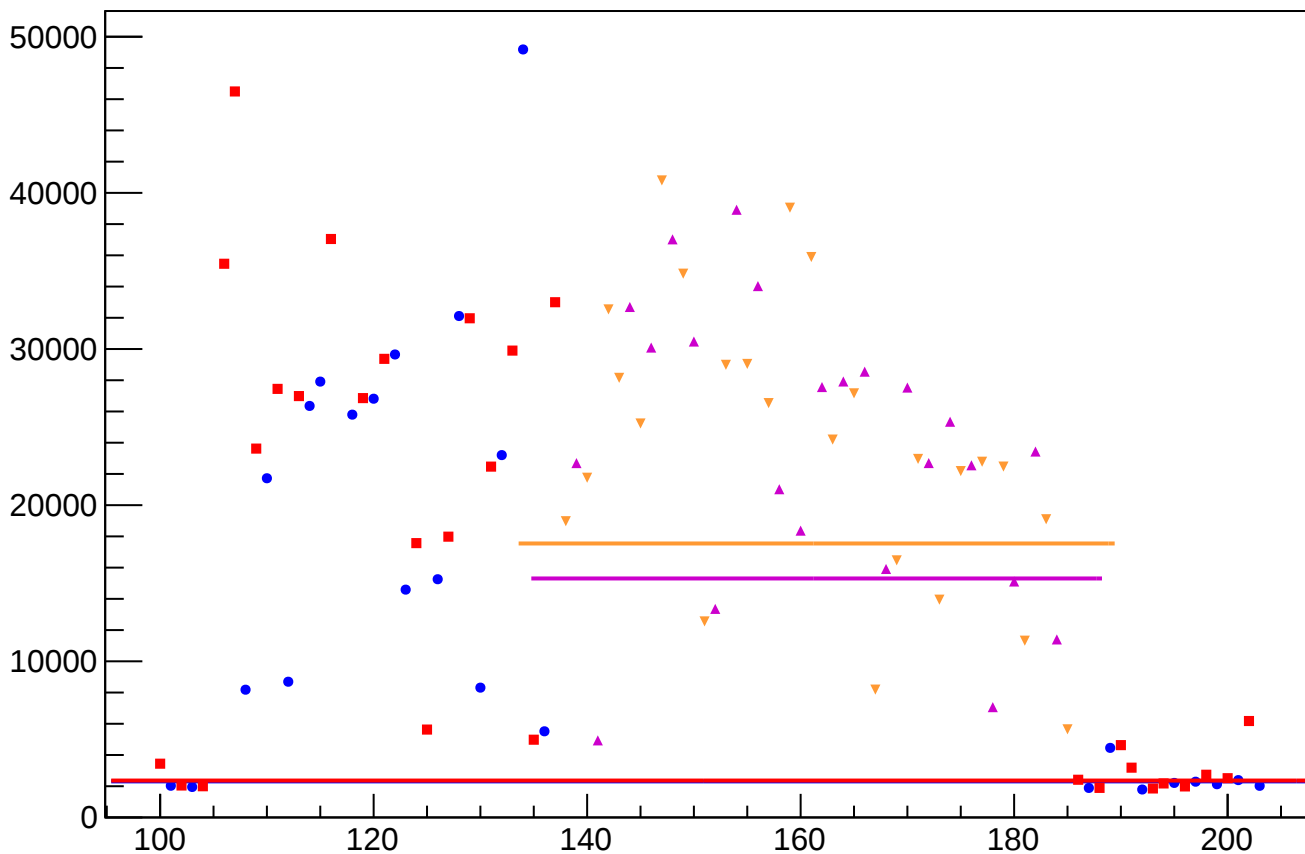
Right: 2.261 ± 0.753 χ^2/NDF : 1967.7/53

In: -13.333 ± 1.019 χ^2/NDF : 868.4/47

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

All: 2.384 ± 0.735 χ^2/NDF : 2068.1/101

diff_bpm0l03Y_rms vs Slug, Sign Corrected



Right In: 2310.079+/-0.738 χ^2/NDF : 5795293.5/24

Left Out: 17546.173+/-3.517 χ^2/NDF : 5902620.4/24

Right Out: 2363.626+/-0.768 χ^2/NDF : 8314153.4/28

Left In: 15305.311+/-3.386 χ^2/NDF : 7721177.0/22

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

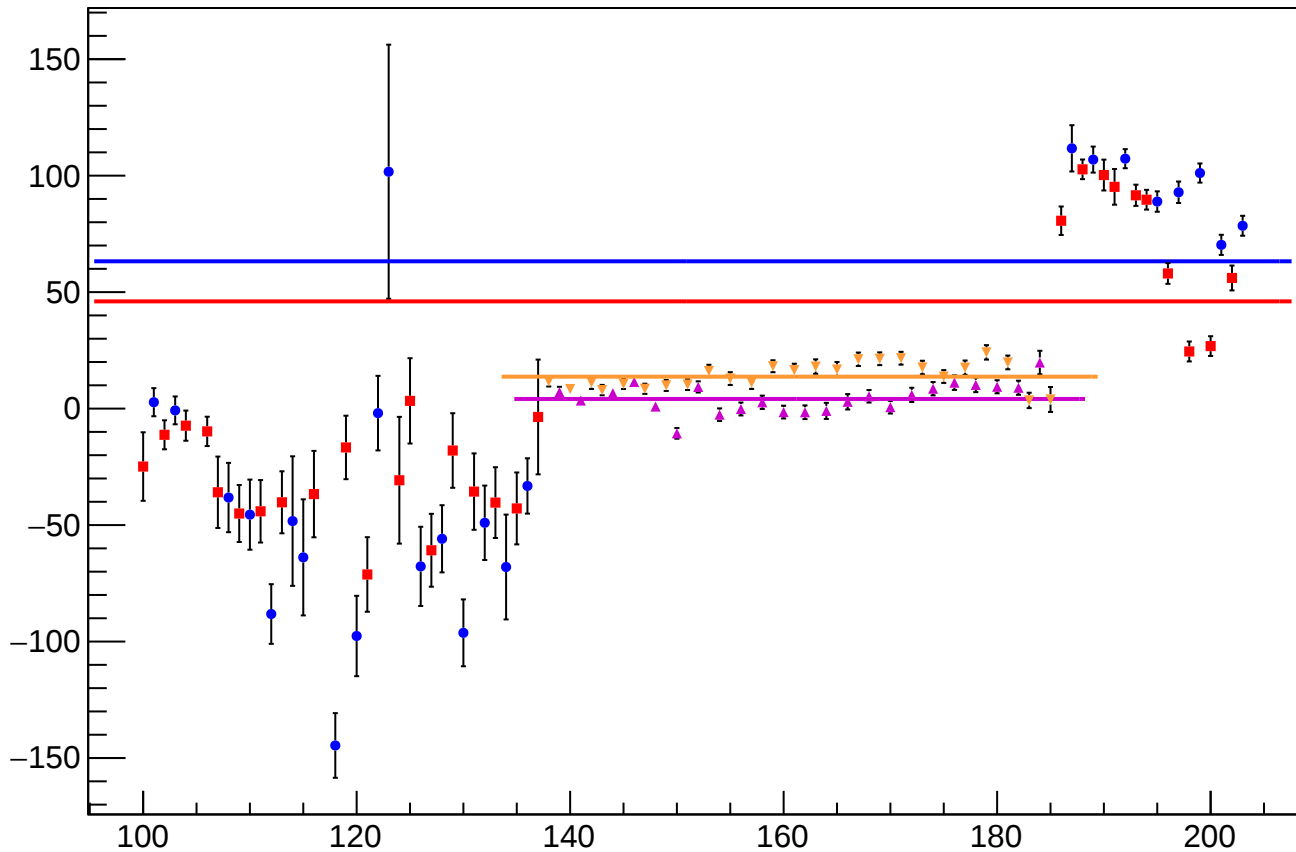
Right: 2335.758+/-0.532 χ^2/NDF : 14111973.9/53

In: 2898.825+/-0.721 χ^2/NDF : 27576776.2/47

Out: 3055.296+/-0.751 χ^2/NDF : 32000301.8/53

All: 2973.874+/-0.520 χ^2/NDF : 59599682.5/100

diff_bpm0l04X_mean vs Slug, Sign Corrected



Right In: 63.233+/-1.442 χ^2/NDF : 1600.8/24

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

Right Out: 46.034+/-1.333 χ^2/NDF : 1274.3/28

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

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

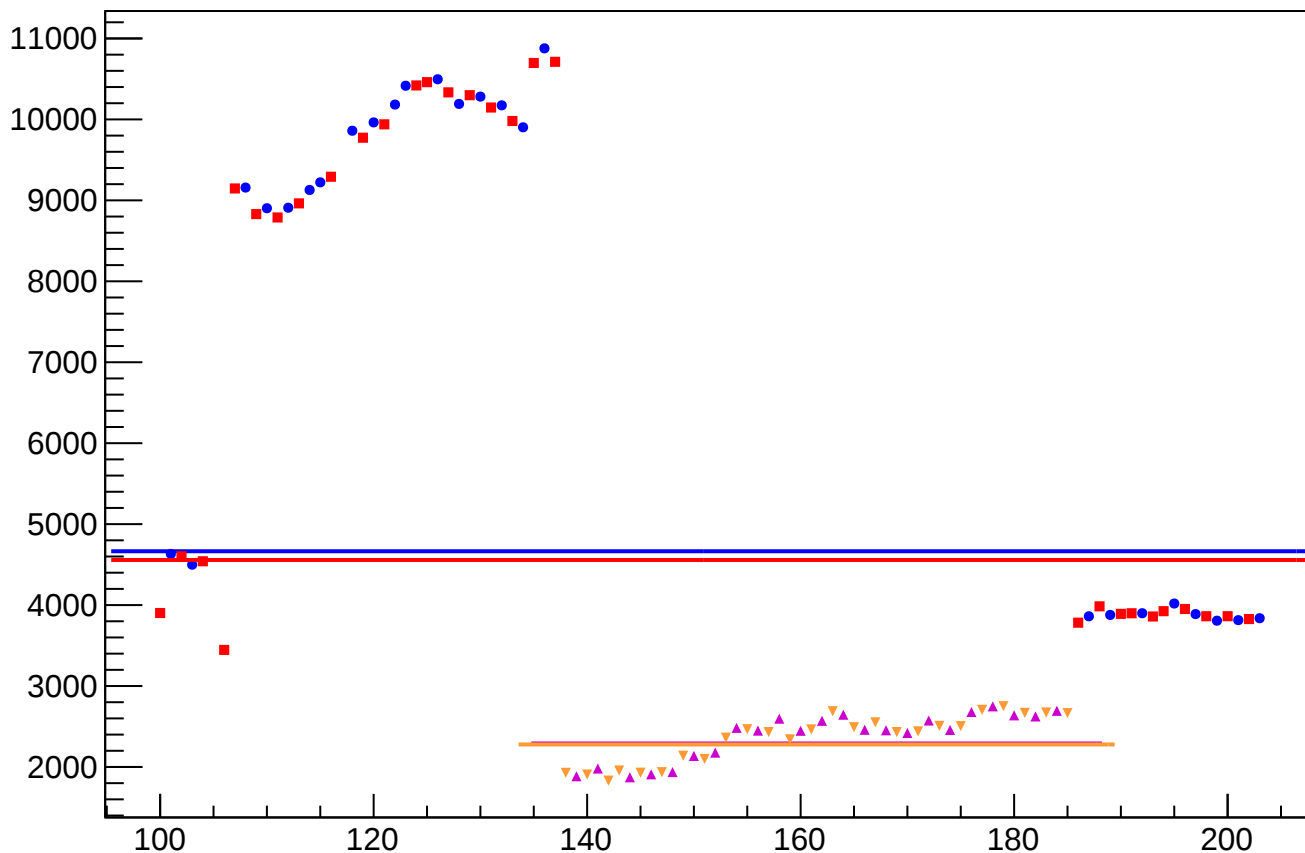
Right: 53.957+/-0.979 χ^2/NDF : 2951.8/53

In: 11.756+/-0.518 χ^2/NDF : 3174.5/47

Out: 18.197+/-0.497 χ^2/NDF : 1870.4/53

All: 15.110+/-0.358 χ^2/NDF : 5125.4/101

diff_bpm0l04X_rms vs Slug, Sign Corrected



Right In: 4664.964+/-1.020 χ^2/NDF : 3600816.0/24

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

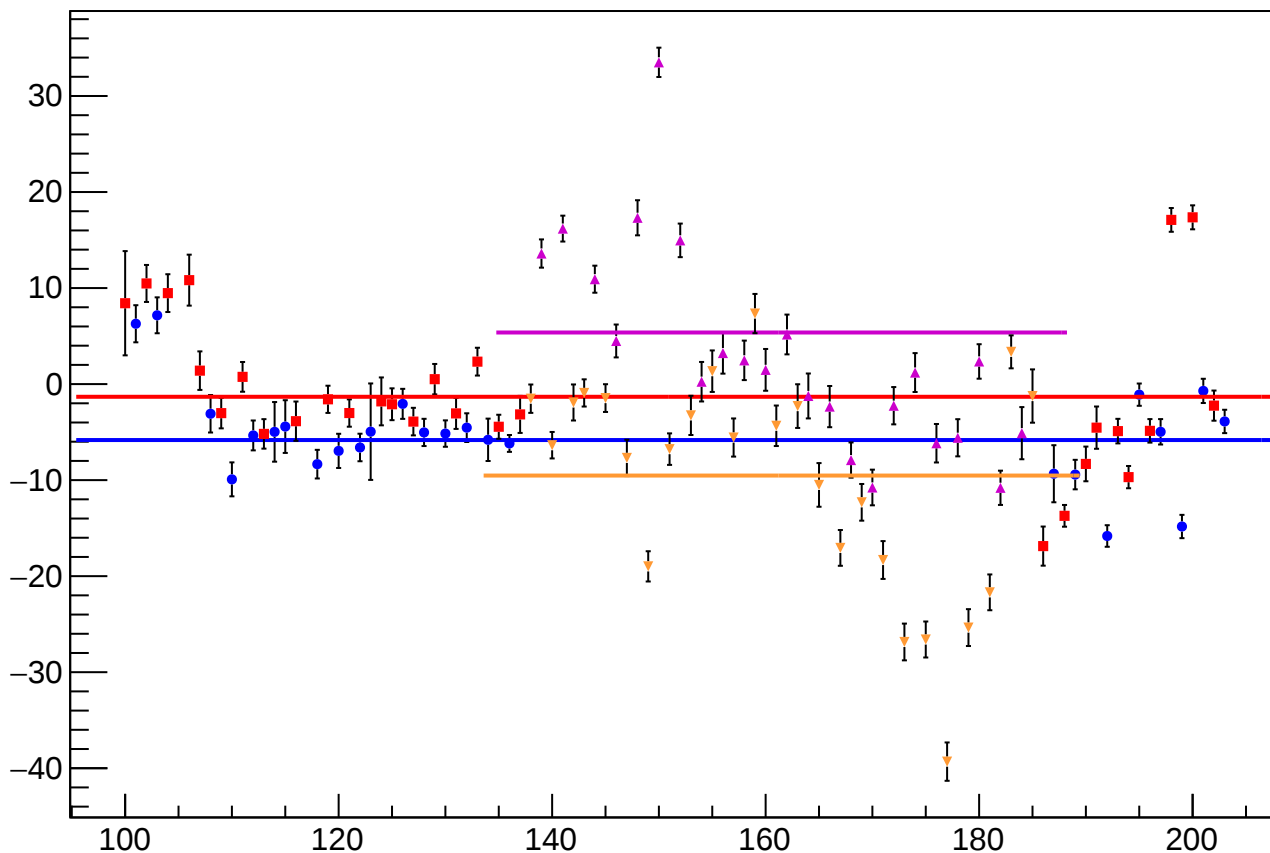
Right: 4606.848+/-0.692 χ^2/NDF : 7300877.6/53

In: 2596.457+/-0.366 χ^2/NDF : 8912194.7/47

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

All: 2595.429+/-0.253 χ^2/NDF : 18246844.3/100

diff_bpm0l04Y_mean vs Slug, Sign Corrected



Right In: -5.827 ± 0.300 χ^2/NDF : 283.3/24

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

Right Out: -1.321 ± 0.290 χ^2/NDF : 834.9/28

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

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

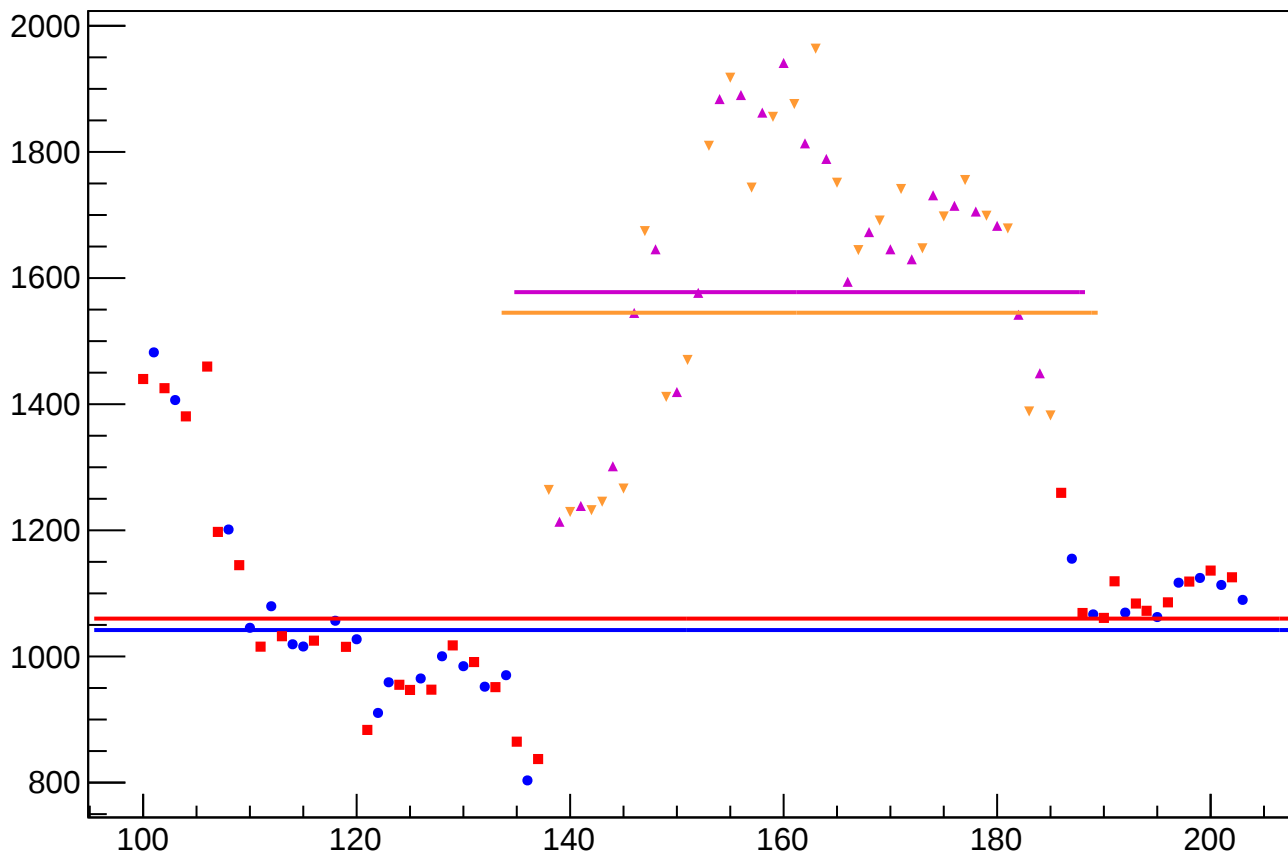
Right: -3.499 ± 0.209 χ^2/NDF : 1234.5/53

In: -1.563 ± 0.236 χ^2/NDF : 1682.8/47

Out: -4.503 ± 0.227 χ^2/NDF : 2028.6/53

All: -3.090 ± 0.164 χ^2/NDF : 3791.8/101

diff_bpm0l04Y_rms vs Slug, Sign Corrected



Right In: 1041.883 $\pm$ 0.212 χ^2 /NDF: 409792.8/24

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

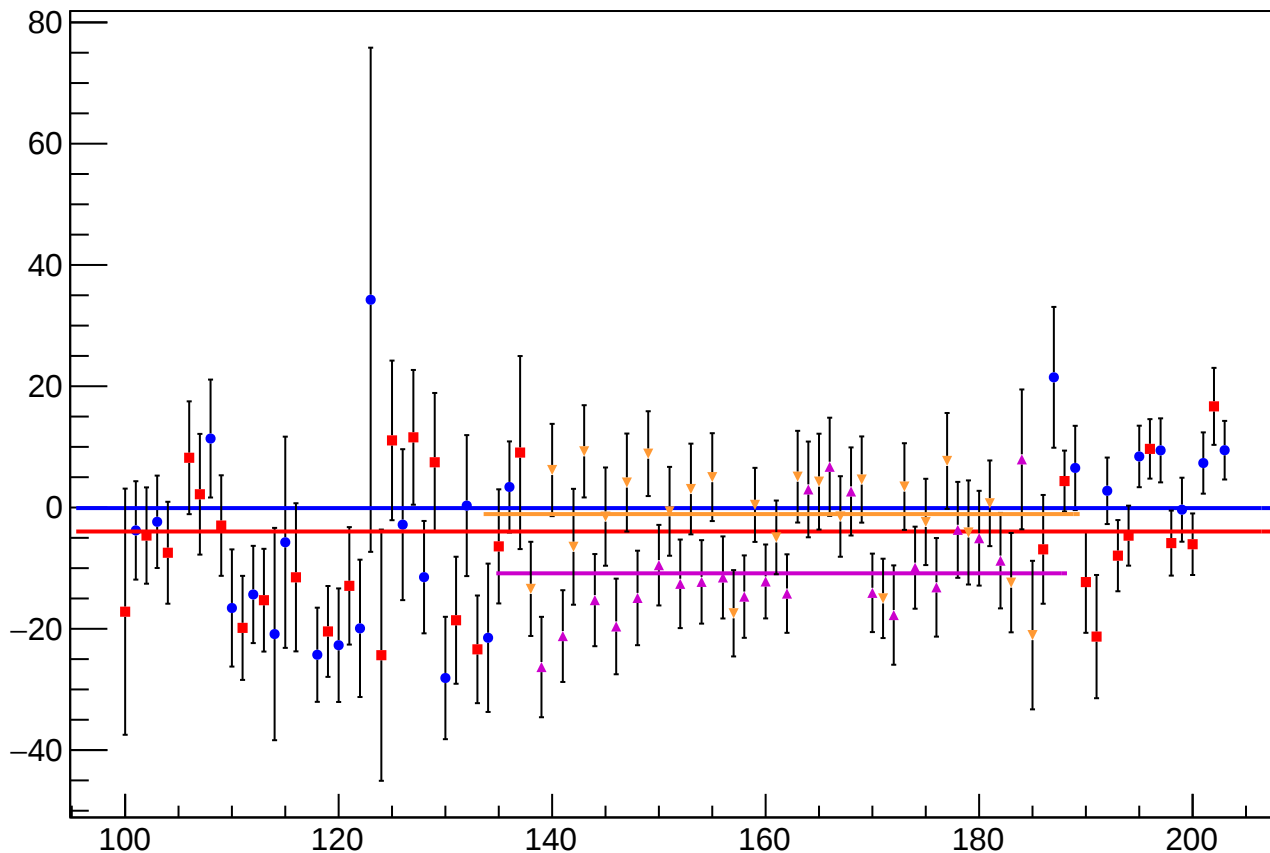
Right: 1051.259 $\pm$ 0.148 χ^2 /NDF: 799502.8/53

In: 1245.895 $\pm$ 0.167 χ^2 /NDF: 3460259.0/47

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

All: 1247.081 $\pm$ 0.116 χ^2 /NDF: 6853312.8/100

diff_bpm0l05X_mean vs Slug, Sign Corrected



Right In: -0.095 $\pm$ 1.532 χ^2/NDF : 57.9/24

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

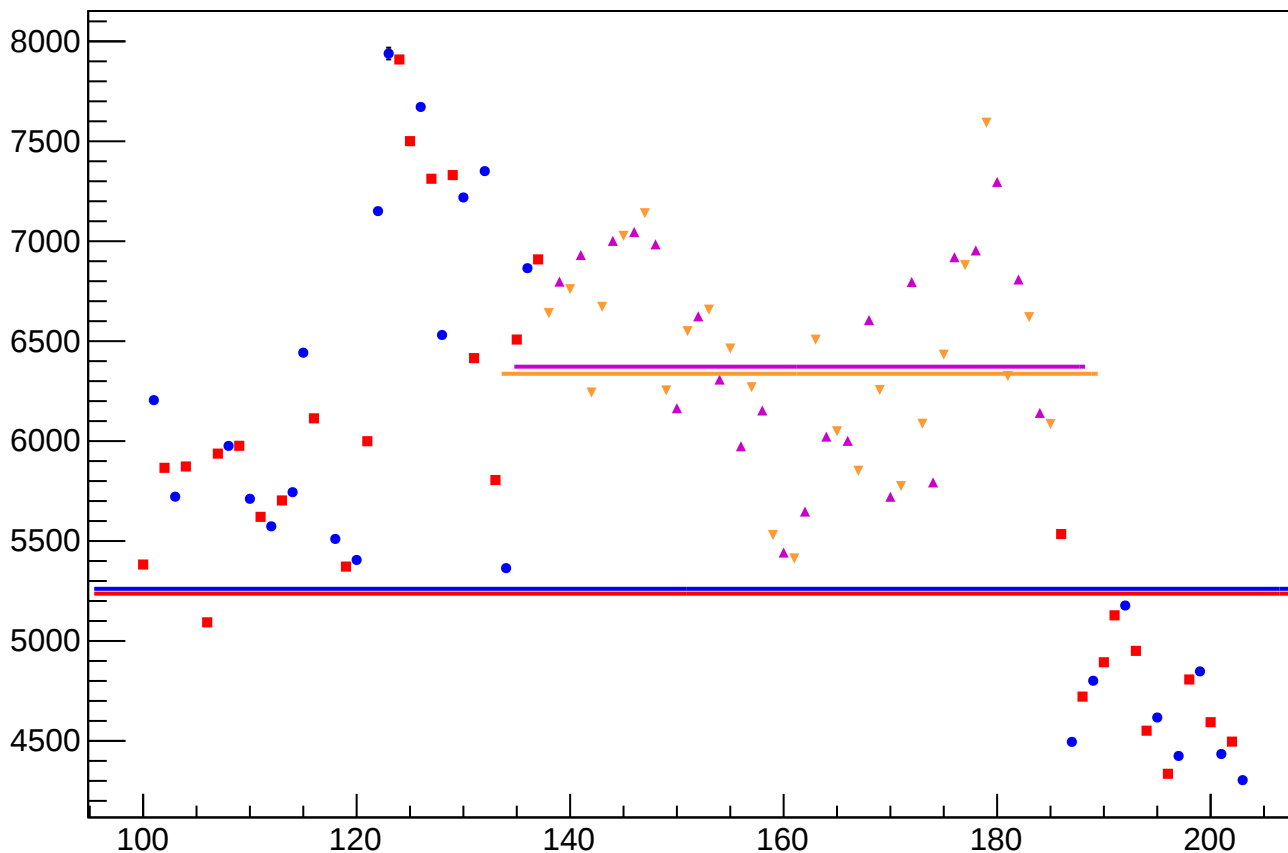
Right: -2.136 $\pm$ 1.052 χ^2/NDF : 113.7/53

In: -5.440 $\pm$ 1.087 χ^2/NDF : 106.7/47

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

All: -3.932 $\pm$ 0.750 χ^2/NDF : 192.4/101

diff_bpm0l05X_rms vs Slug, Sign Corrected



Right In: 5260.954 $\pm$ 1.083 χ^2 /NDF: 718388.4/24

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

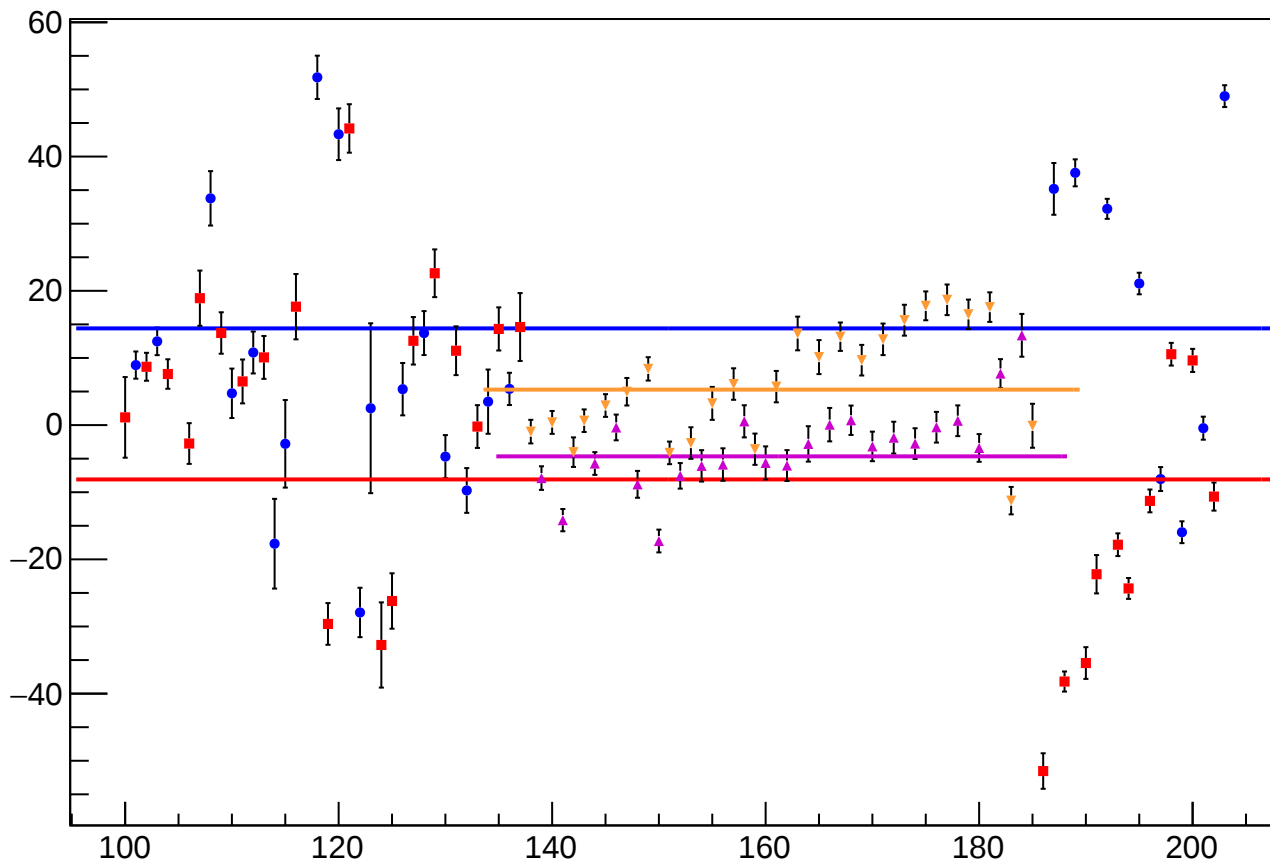
Right: 5248.151 $\pm$ 0.744 χ^2 /NDF: 1333826.1/53

In: 5813.202 $\pm$ 0.768 χ^2 /NDF: 1488596.5/47

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

All: 5791.329 $\pm$ 0.530 χ^2 /NDF: 2890781.5/100

diff_bpm0l05Y_mean vs Slug, Sign Corrected



Right In: 14.405 ± 0.492 $\chi^2/\text{NDF}: 1861.5/24$

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 $\chi^2/\text{NDF}: 827.2/47$

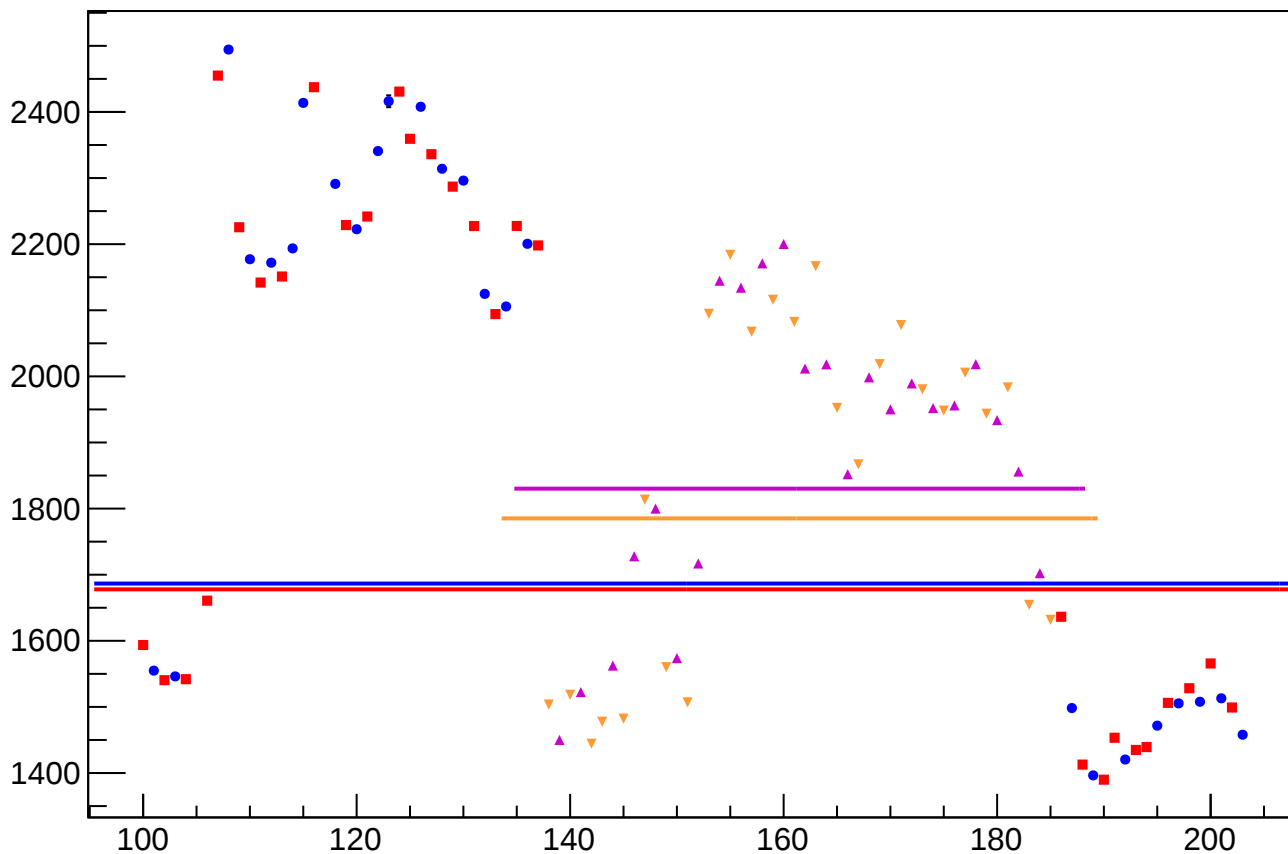
Right: 2.527 ± 0.338 $\chi^2/\text{NDF}: 4971.2/53$

In: 3.886 ± 0.329 $\chi^2/\text{NDF}: 2886.6/47$

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

All: 1.451 ± 0.227 $\chi^2/\text{NDF}: 5816.8/101$

diff_bpm0l05Y_rms vs Slug, Sign Corrected



Right In: 1686.611 $\pm$ 0.348 χ^2 /NDF: 1002680.1/24

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

Right Out: 1677.856 $\pm$ 0.329 χ^2 /NDF: 1018764.3/28

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

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

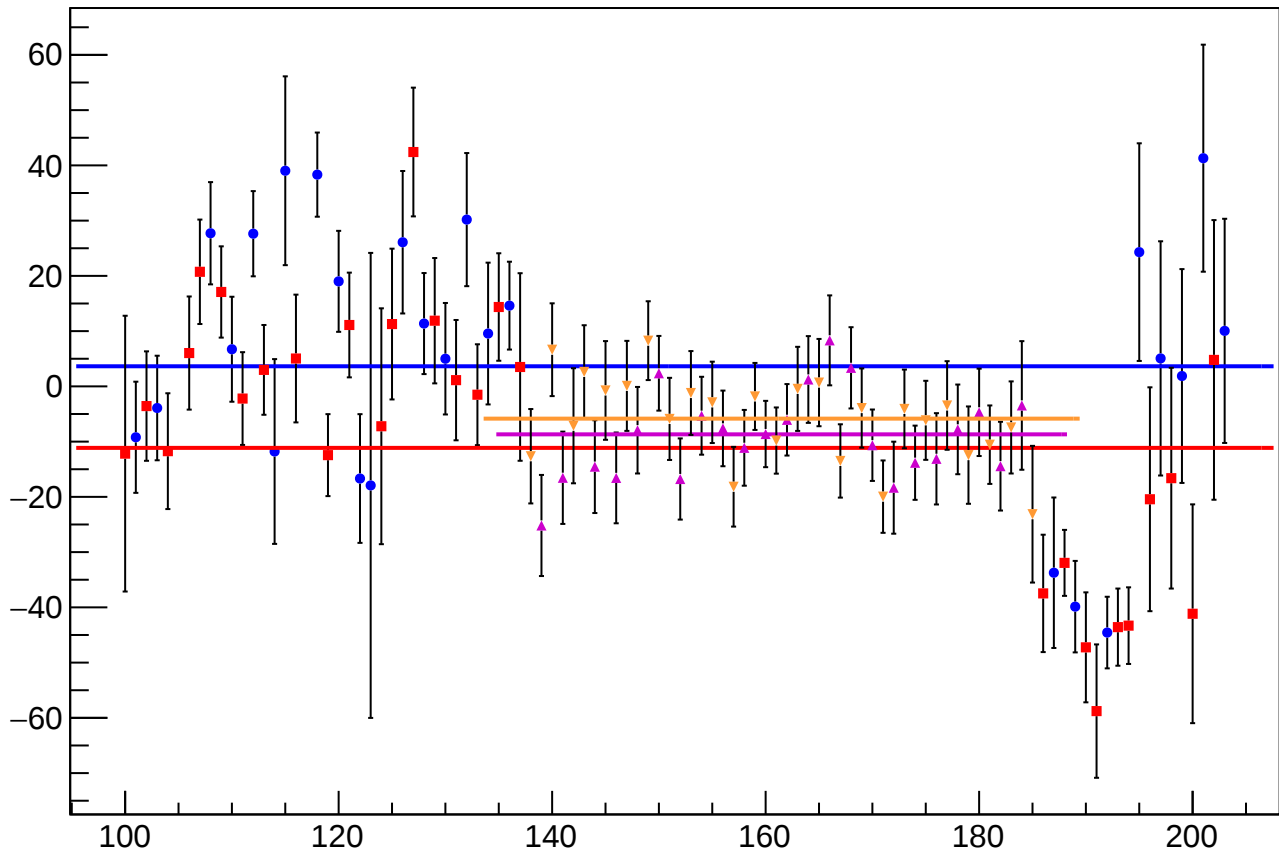
Right: 1681.989 $\pm$ 0.239 χ^2 /NDF: 2021778.8/53

In: 1765.824 $\pm$ 0.233 χ^2 /NDF: 1605048.7/47

Out: 1736.897 $\pm$ 0.221 χ^2 /NDF: 1827952.6/53

All: 1750.580 $\pm$ 0.160 χ^2 /NDF: 3441132.6/100

diff_bpm0l06X_mean vs Slug, Sign Corrected



Right In: 3.637 ± 2.145 χ^2/NDF : 156.6/24

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

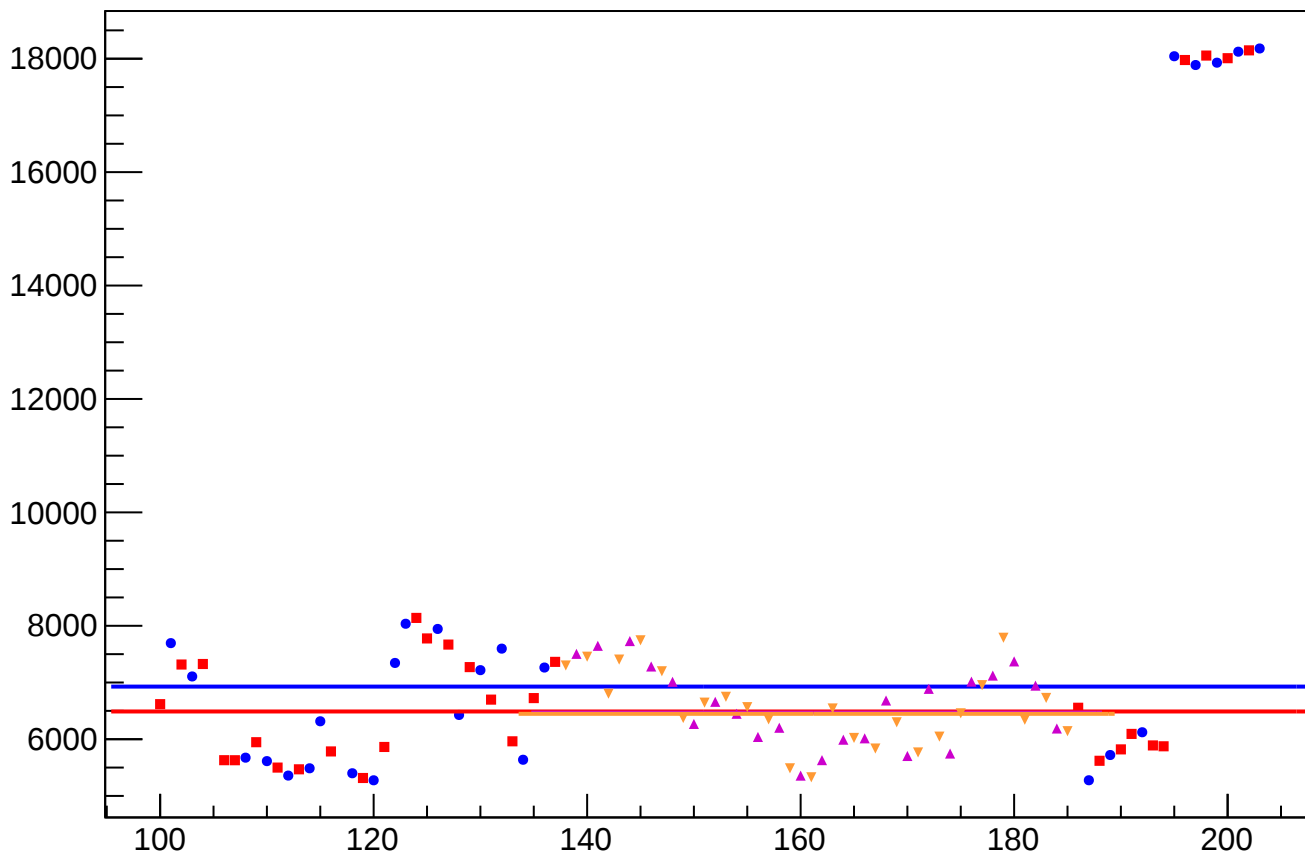
Right: -4.726 ± 1.413 χ^2/NDF : 352.6/53

In: -4.383 ± 1.267 χ^2/NDF : 200.0/47

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

All: -6.284 ± 0.864 χ^2/NDF : 401.5/101

diff_bpm0l06X_rms vs Slug, Sign Corrected



Right In: 6927.921+/-1.517 χ^2/NDF : 3517122.8/24

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

Right Out: 6489.145+/-1.327 χ^2/NDF : 2763625.9/28

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

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

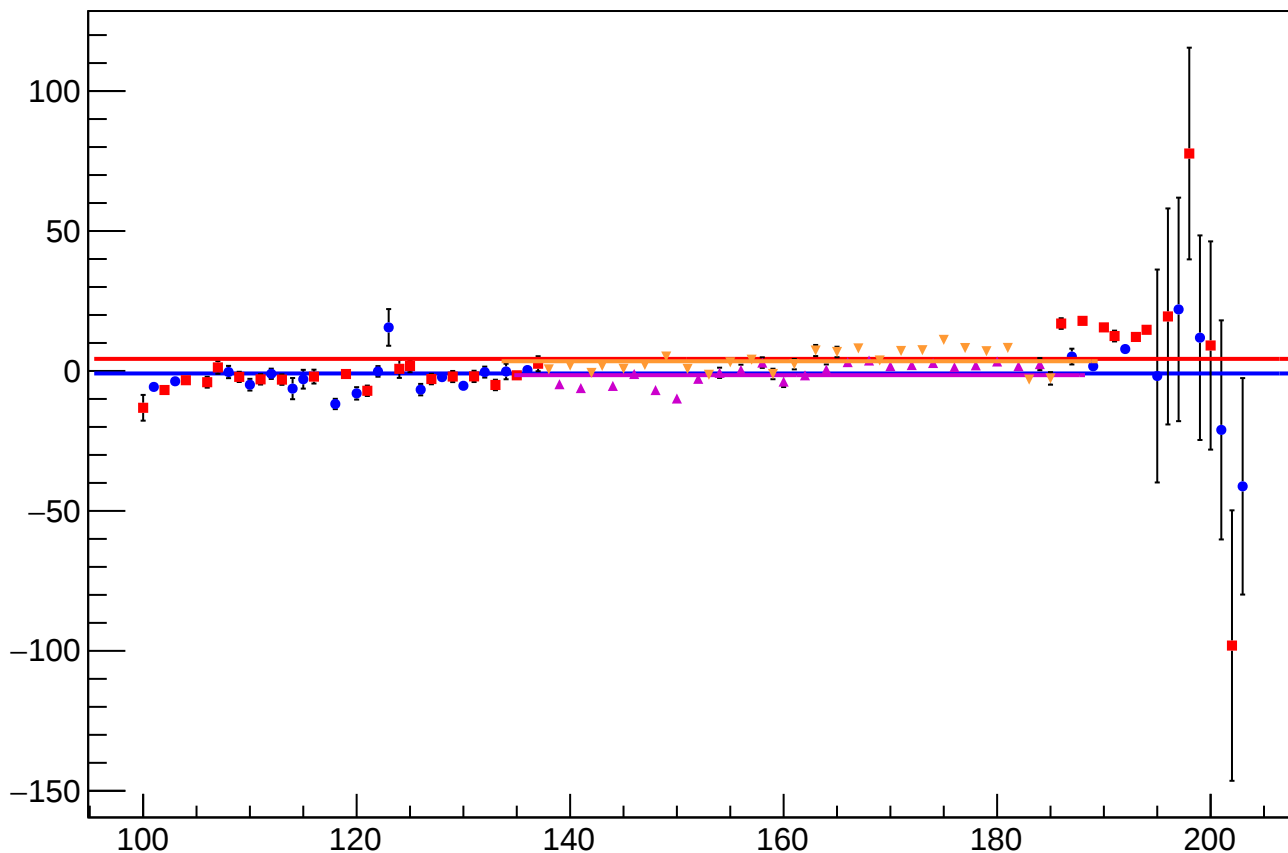
Right: 6679.471+/-0.999 χ^2/NDF : 6328144.9/53

In: 6629.124+/-0.896 χ^2/NDF : 3960078.6/47

Out: 6464.097+/-0.835 χ^2/NDF : 3135886.0/53

All: 6540.776+/-0.611 χ^2/NDF : 7114125.0/100

diff_bpm0l06Y_mean vs Slug, Sign Corrected



Right In: -0.893 ± 0.406 χ^2/NDF : 173.1/24

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

Right Out: 4.317 ± 0.355 χ^2/NDF : 670.5/28

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

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

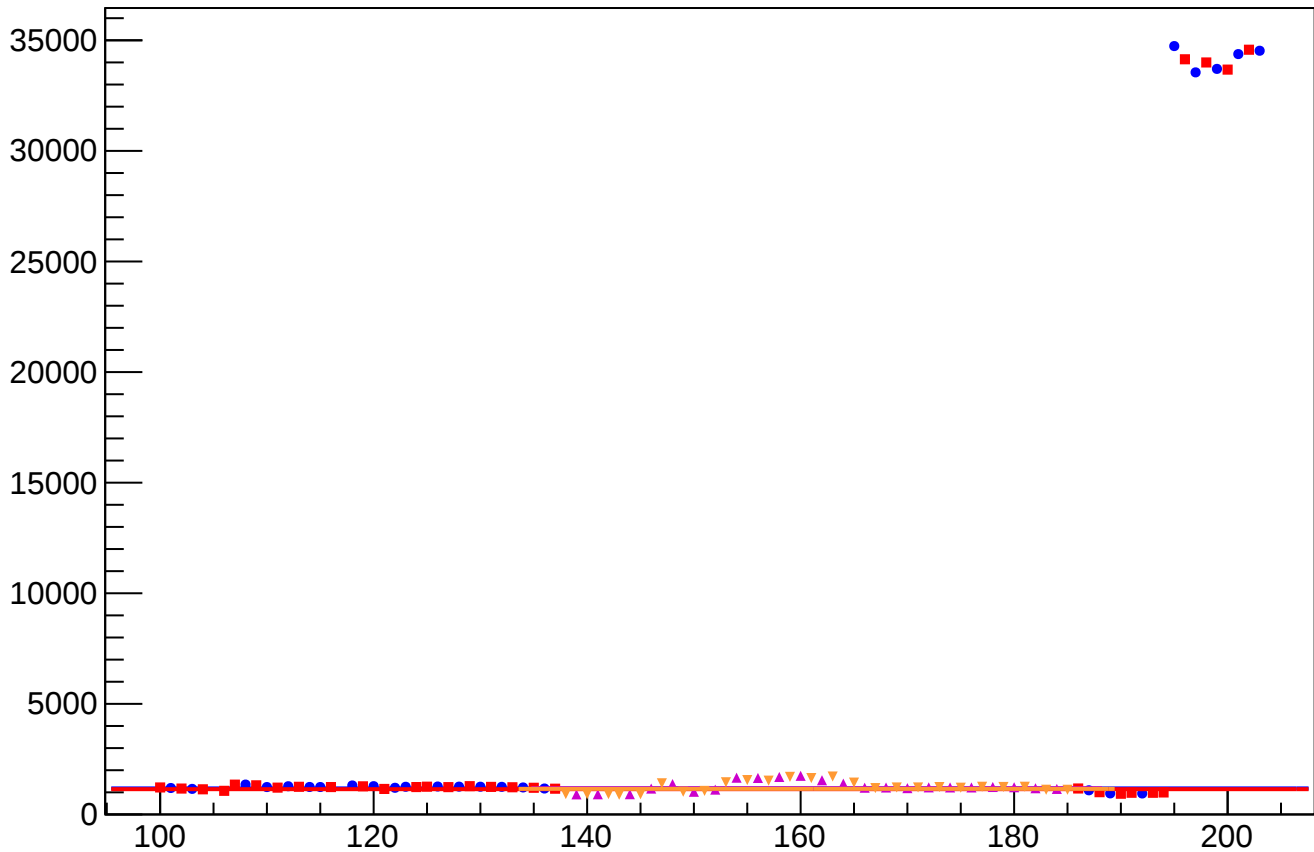
Right: 2.061 ± 0.267 χ^2/NDF : 937.1/53

In: -1.296 ± 0.236 χ^2/NDF : 377.3/47

Out: 3.790 ± 0.218 χ^2/NDF : 850.0/53

All: 1.452 ± 0.160 χ^2/NDF : 1477.6/101

diff_bpm0l06Y_rms vs Slug, Sign Corrected



Right In: 1177.447 $\pm$ 0.287 χ^2 /NDF: 7596930.6/24

Left Out: 1158.894 $\pm$ 0.195 χ^2 /NDF: 1410423.6/24

Right Out: 1142.941 $\pm$ 0.251 χ^2 /NDF: 5702255.1/28

Left In: 1184.966 $\pm$ 0.206 χ^2 /NDF: 1190431.5/22

Left: 1171.274 $\pm$ 0.142 χ^2 /NDF: 2609306.9/47

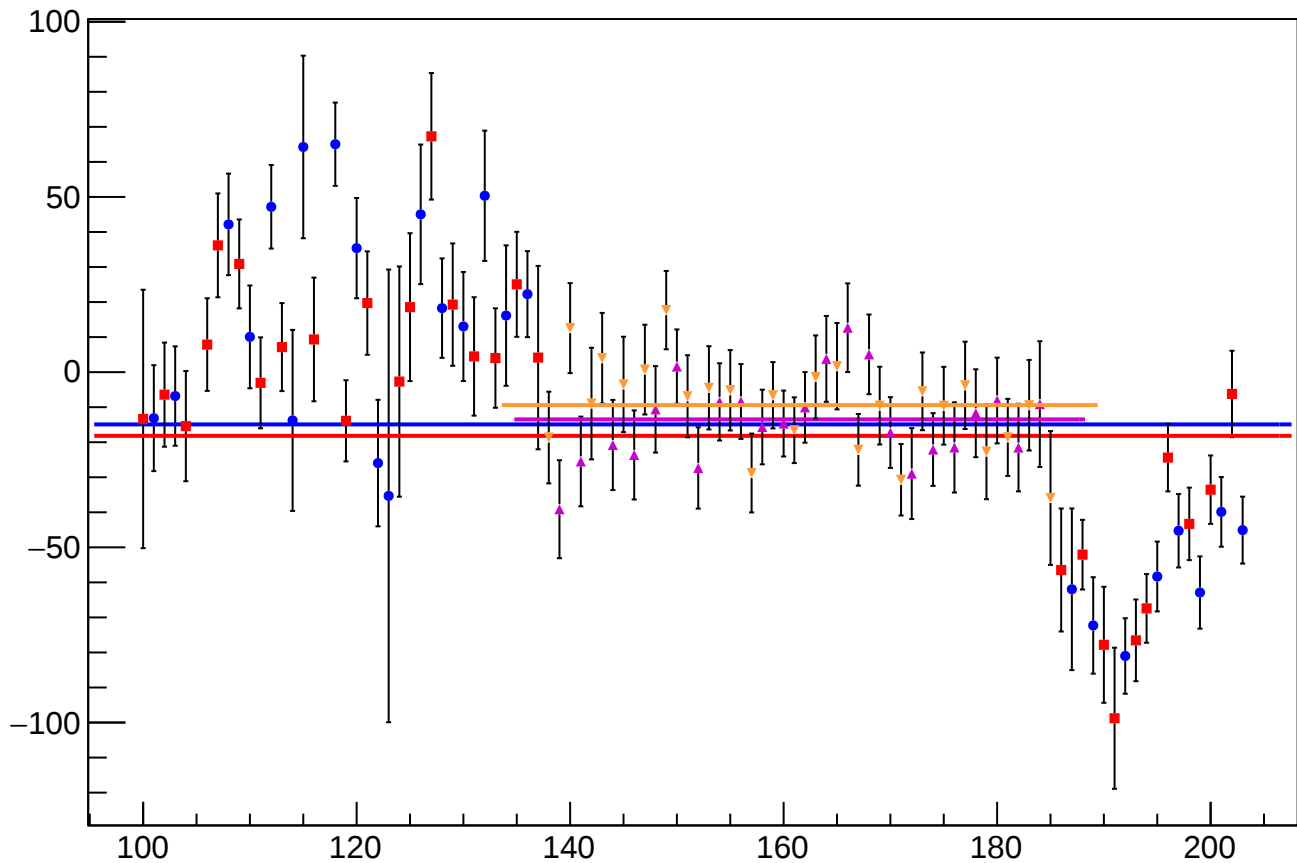
Right: 1157.885 $\pm$ 0.189 χ^2 /NDF: 13307388.6/53

In: 1182.416 $\pm$ 0.167 χ^2 /NDF: 8787816.2/47

Out: 1152.865 $\pm$ 0.154 χ^2 /NDF: 7115197.2/53

All: 1166.453 $\pm$ 0.113 χ^2 /NDF: 15919914.7/100

diff_bpm0l07X_mean vs Slug, Sign Corrected



Right In: -14.915 ± 2.741 χ^2/NDF : 279.3/24

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

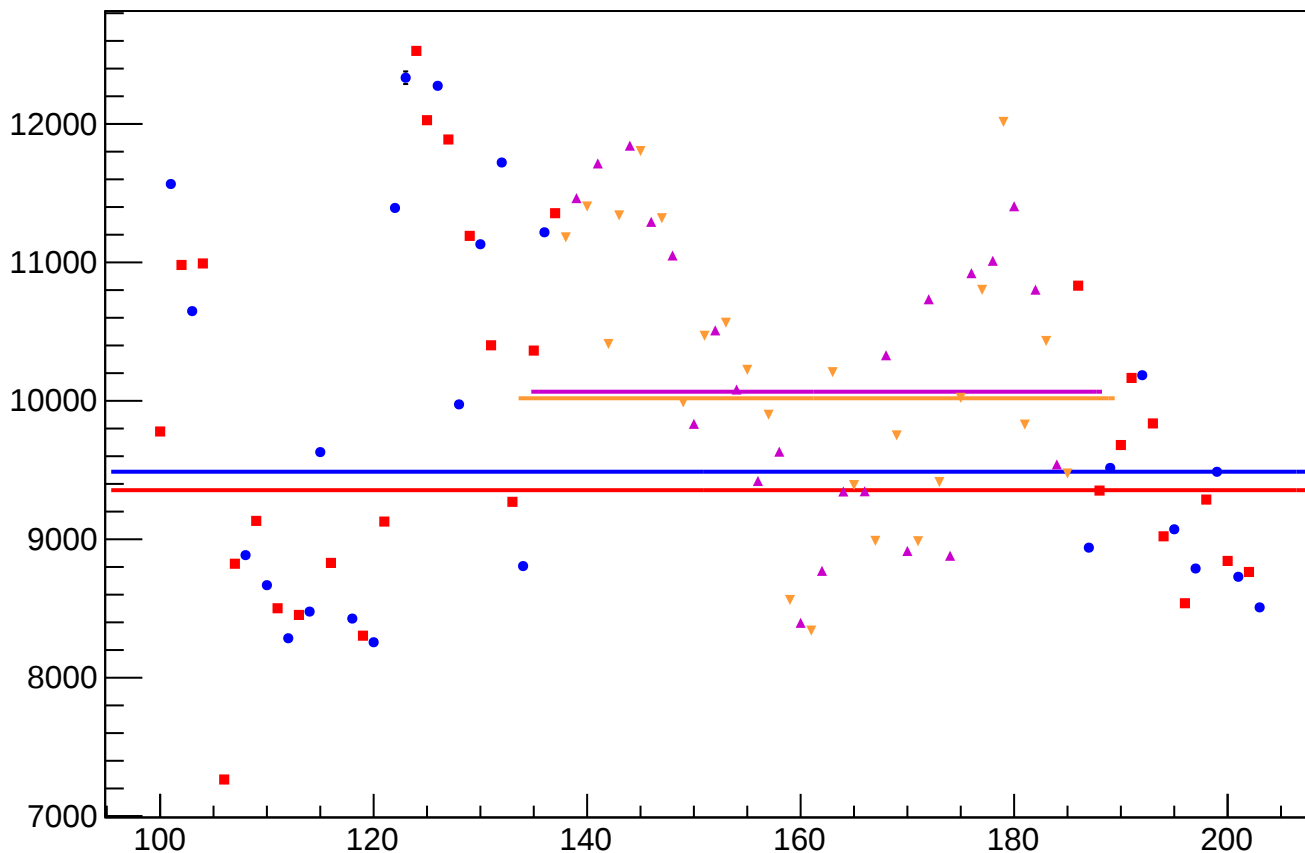
Right: -16.651 ± 1.874 χ^2/NDF : 476.6/53

In: -14.118 ± 1.824 χ^2/NDF : 301.0/47

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

All: -13.749 ± 1.258 χ^2/NDF : 530.3/101

diff_bpm0l07X_rms vs Slug, Sign Corrected



Right In: 9488.053 $\pm$ 1.938 χ^2/NDF : 330593.3/24

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

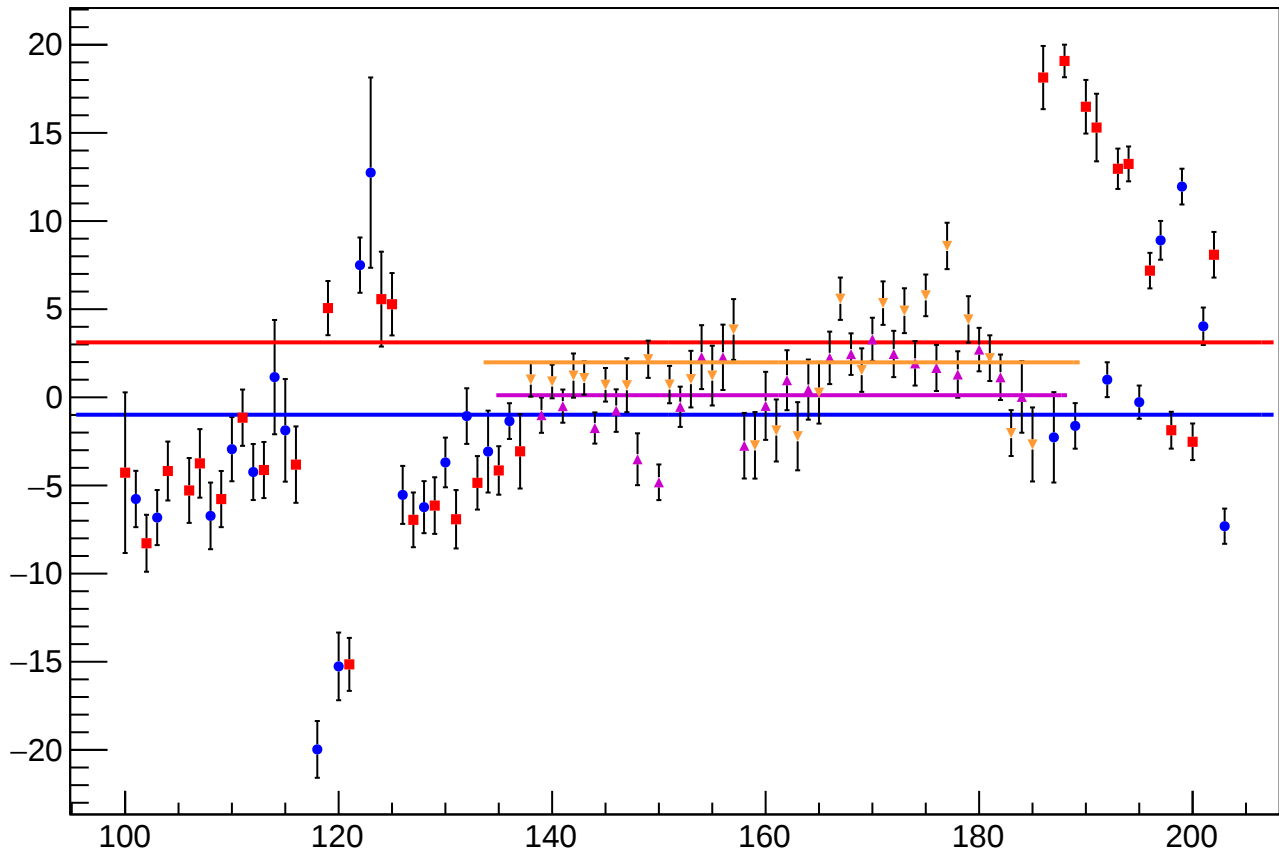
Right: 9417.024 $\pm$ 1.325 χ^2/NDF : 658990.2/53

In: 9810.096 $\pm$ 1.290 χ^2/NDF : 738006.0/47

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

All: 9760.138 $\pm$ 0.889 χ^2/NDF : 1483786.1/100

diff_bpm0l07Y_mean vs Slug, Sign Corrected



Right In: -0.987 ± 0.282 $\chi^2/\text{NDF}: 603.9/24$

Left Out: 1.985 ± 0.255 $\chi^2/\text{NDF}: 101.2/24$

Right Out: 3.117 ± 0.269 $\chi^2/\text{NDF}: 1250.2/28$

Left In: 0.120 ± 0.269 $\chi^2/\text{NDF}: 67.6/22$

Left: 1.102 ± 0.185 $\chi^2/\text{NDF}: 194.2/47$

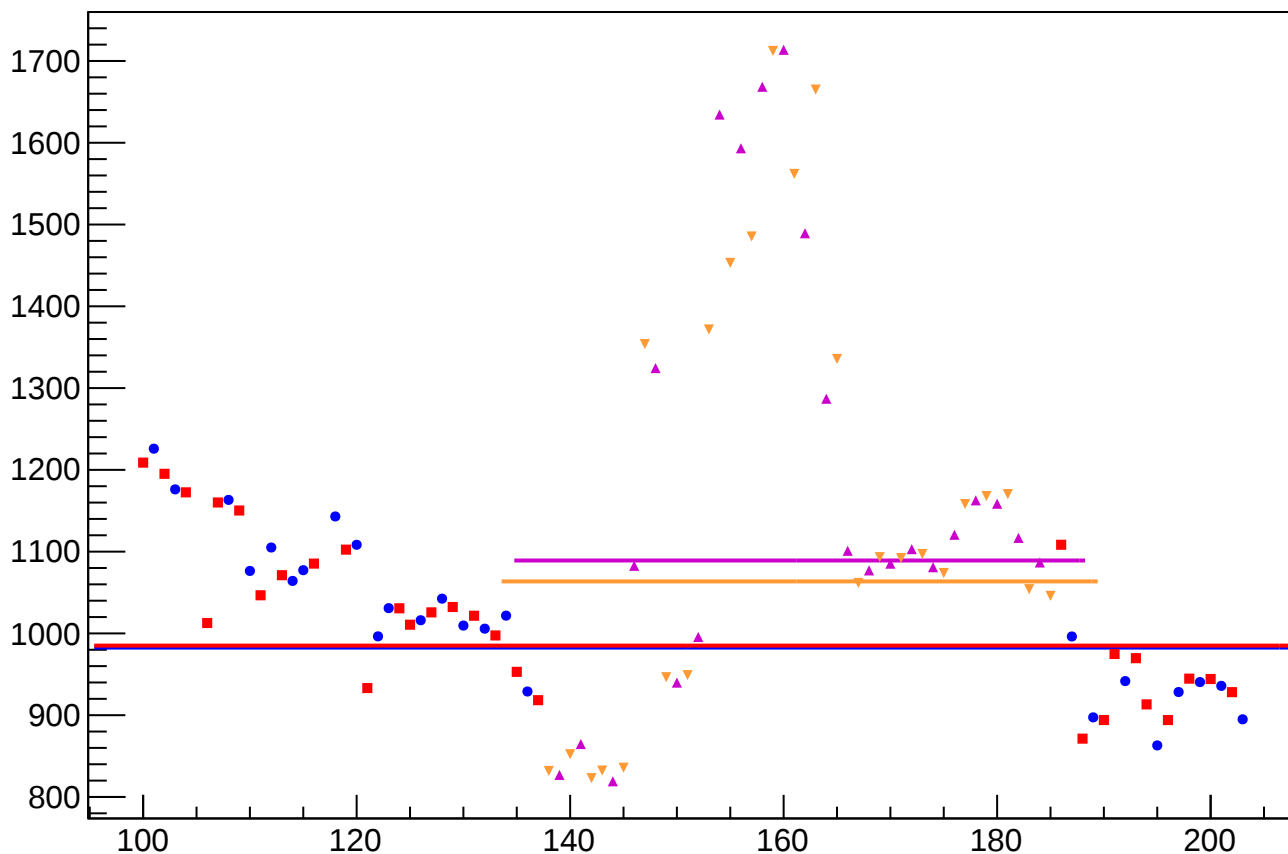
Right: 1.162 ± 0.195 $\chi^2/\text{NDF}: 1965.1/53$

In: -0.407 ± 0.195 $\chi^2/\text{NDF}: 679.6/47$

Out: 2.520 ± 0.185 $\chi^2/\text{NDF}: 1360.8/53$

All: 1.130 ± 0.134 $\chi^2/\text{NDF}: 2159.3/101$

diff_bpm0l07Y_rms vs Slug, Sign Corrected



Right In: 982.697 ± 0.199 χ^2/NDF : 228078.3/24

Left Out: 1063.600 ± 0.180 χ^2/NDF : 1617376.3/24

Right Out: 985.075 ± 0.190 χ^2/NDF : 221615.9/28

Left In: 1089.154 ± 0.190 χ^2/NDF : 1430478.5/22

Left: 1075.700 ± 0.131 χ^2/NDF : 3057378.7/47

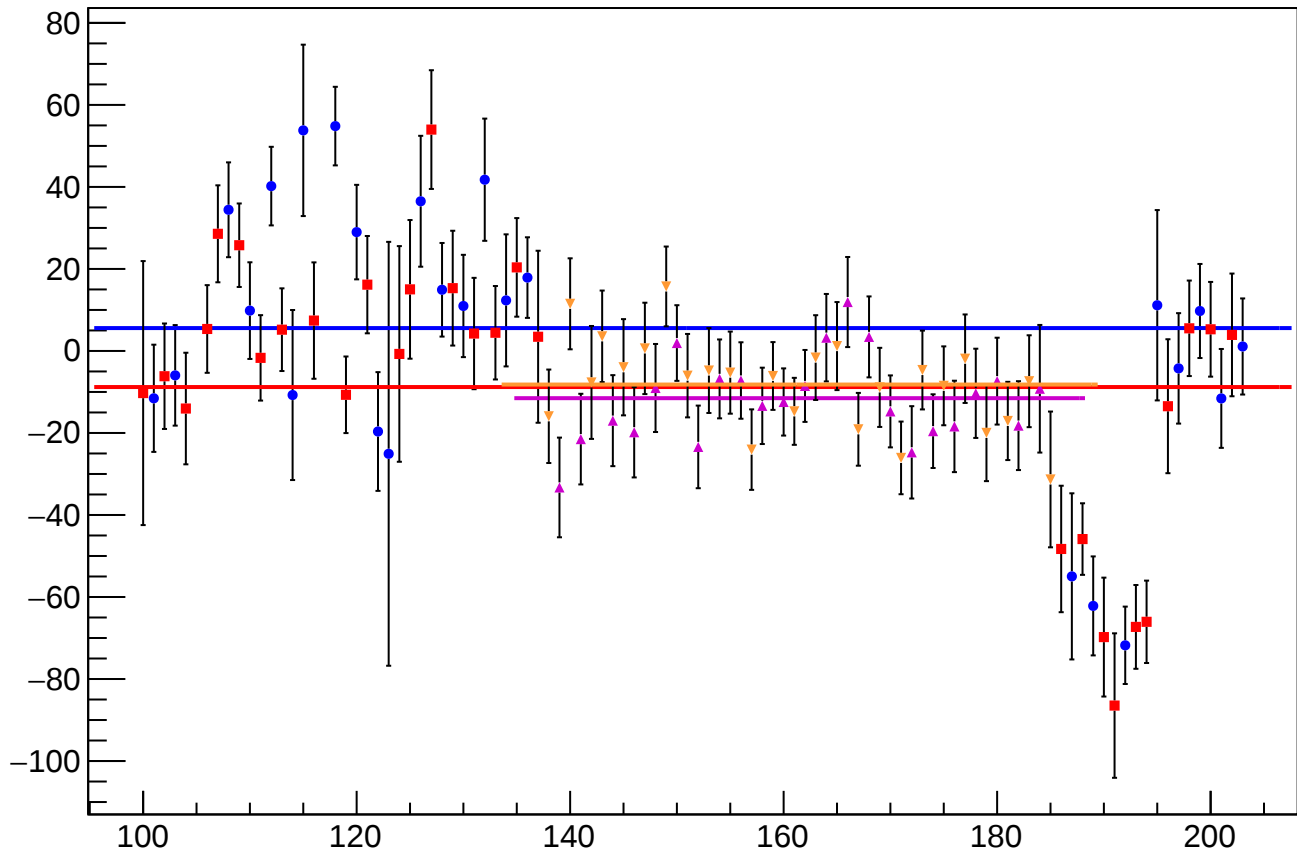
Right: 983.942 ± 0.138 χ^2/NDF : 449768.7/53

In: 1038.506 ± 0.138 χ^2/NDF : 1807924.2/47

Out: 1026.463 ± 0.131 χ^2/NDF : 1928820.8/53

All: 1032.182 ± 0.095 χ^2/NDF : 3740770.3/100

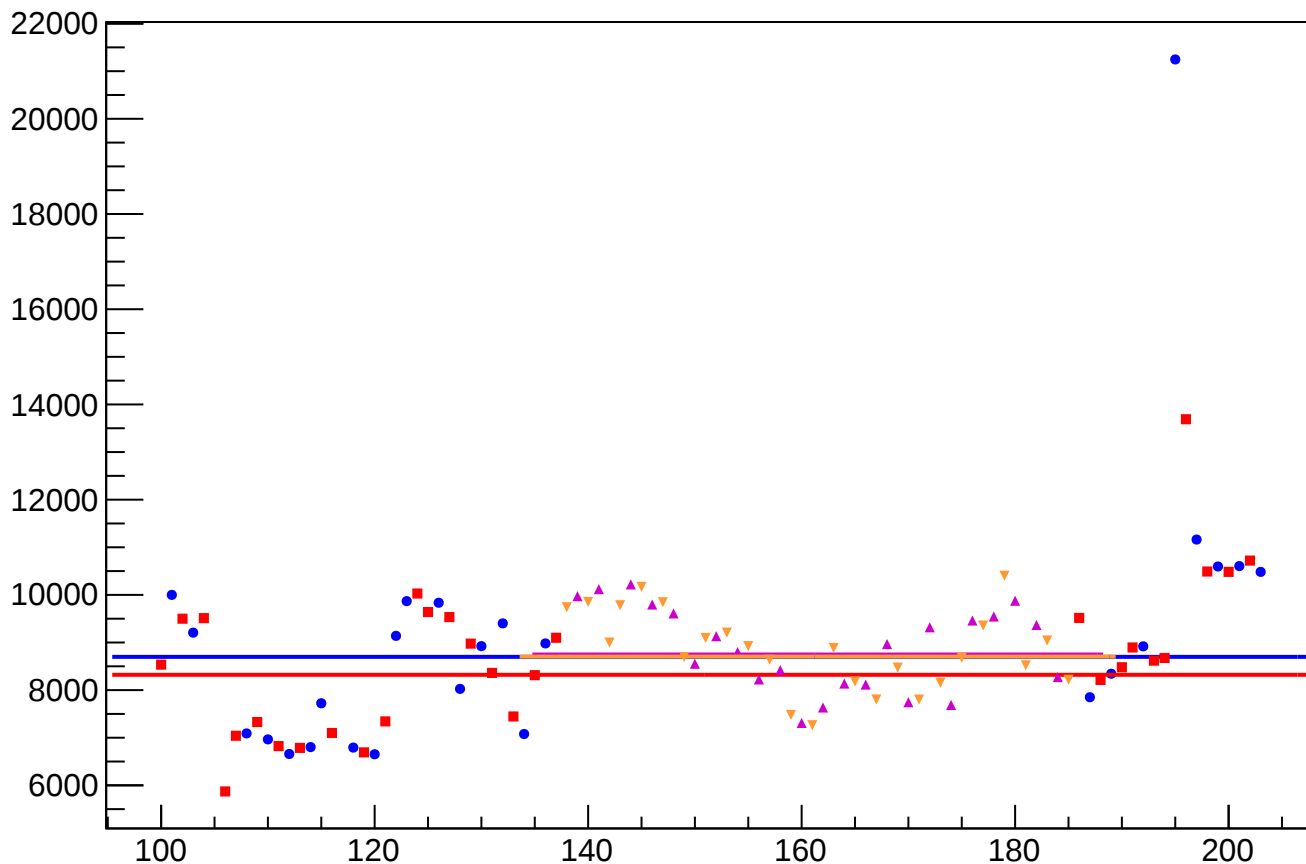
diff_bpm0l08X_mean vs Slug, Sign Corrected



Right In: 5.578 ± 2.559 $\chi^2/\text{NDF}: 184.7/24$
 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: -2.311 ± 1.719 $\chi^2/\text{NDF}: 396.8/53$
 In: -4.550 ± 1.634 $\chi^2/\text{NDF}: 232.2/47$
 Out: -8.460 ± 1.536 $\chi^2/\text{NDF}: 221.0/53$
 All: -6.626 ± 1.119 $\chi^2/\text{NDF}: 456.2/101$

diff_bpm0l08X_rms vs Slug, Sign Corrected



Right In: 8698.470+/-1.810 χ^2/NDF : 1215125.3/24

Left Out: 8704.193+/-1.449 χ^2/NDF : 332364.3/24

Right Out: 8321.588+/-1.641 χ^2/NDF : 835974.5/28

Left In: 8747.415+/-1.501 χ^2/NDF : 347110.4/22

Left: 8725.041+/-1.042 χ^2/NDF : 679904.0/47

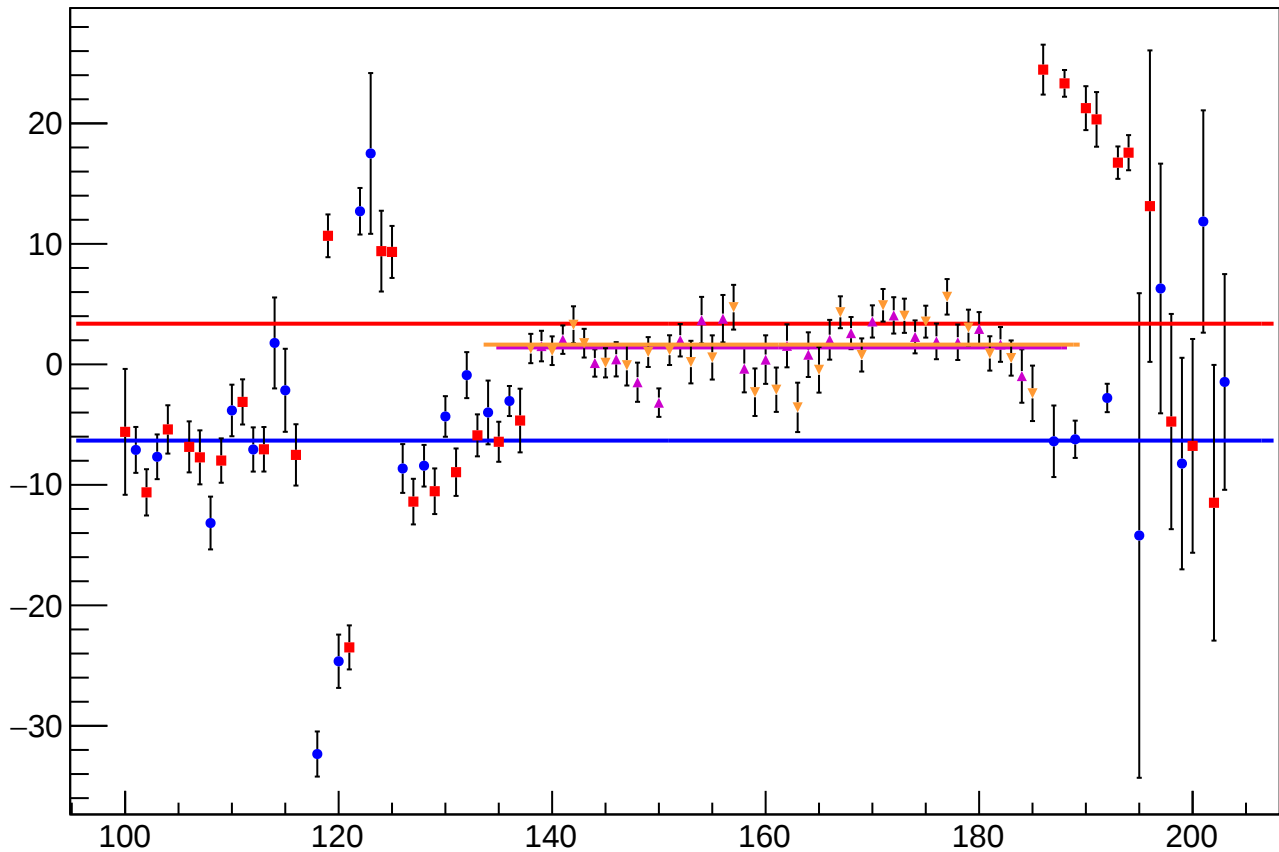
Right: 8491.686+/-1.216 χ^2/NDF : 2074895.4/53

In: 8727.472+/-1.155 χ^2/NDF : 1562669.0/47

Out: 8536.664+/-1.086 χ^2/NDF : 1198883.5/53

All: 8626.191+/-0.791 χ^2/NDF : 2776033.7/100

diff_bpm0l08Y_mean vs Slug, Sign Corrected



Right In: -6.326 ± 0.426 $\chi^2/\text{NDF}: 424.2/24$

Left Out: 1.639 ± 0.294 $\chi^2/\text{NDF}: 51.3/24$

Right Out: 3.376 ± 0.373 $\chi^2/\text{NDF}: 1470.3/28$

Left In: 1.404 ± 0.309 $\chi^2/\text{NDF}: 34.1/22$

Left: 1.528 ± 0.213 $\chi^2/\text{NDF}: 85.8/47$

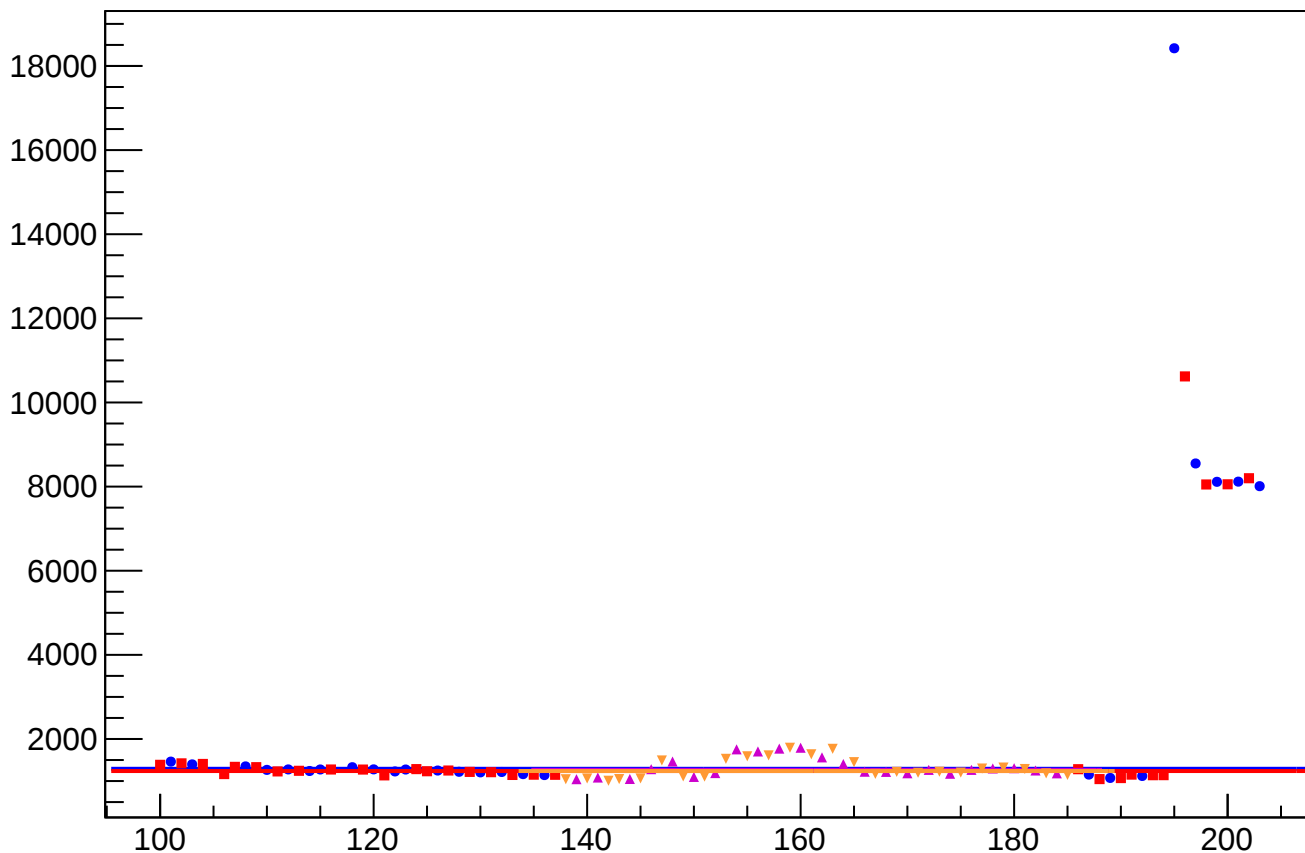
Right: -0.840 ± 0.281 $\chi^2/\text{NDF}: 2188.1/53$

In: -1.263 ± 0.250 $\chi^2/\text{NDF}: 674.3/47$

Out: 2.303 ± 0.231 $\chi^2/\text{NDF}: 1535.0/53$

All: 0.663 ± 0.170 $\chi^2/\text{NDF}: 2319.0/101$

diff_bpm0l08Y_rms vs Slug, Sign Corrected



Right In: 1291.242+/-0.301 χ^2/NDF : 6021413.4/24

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

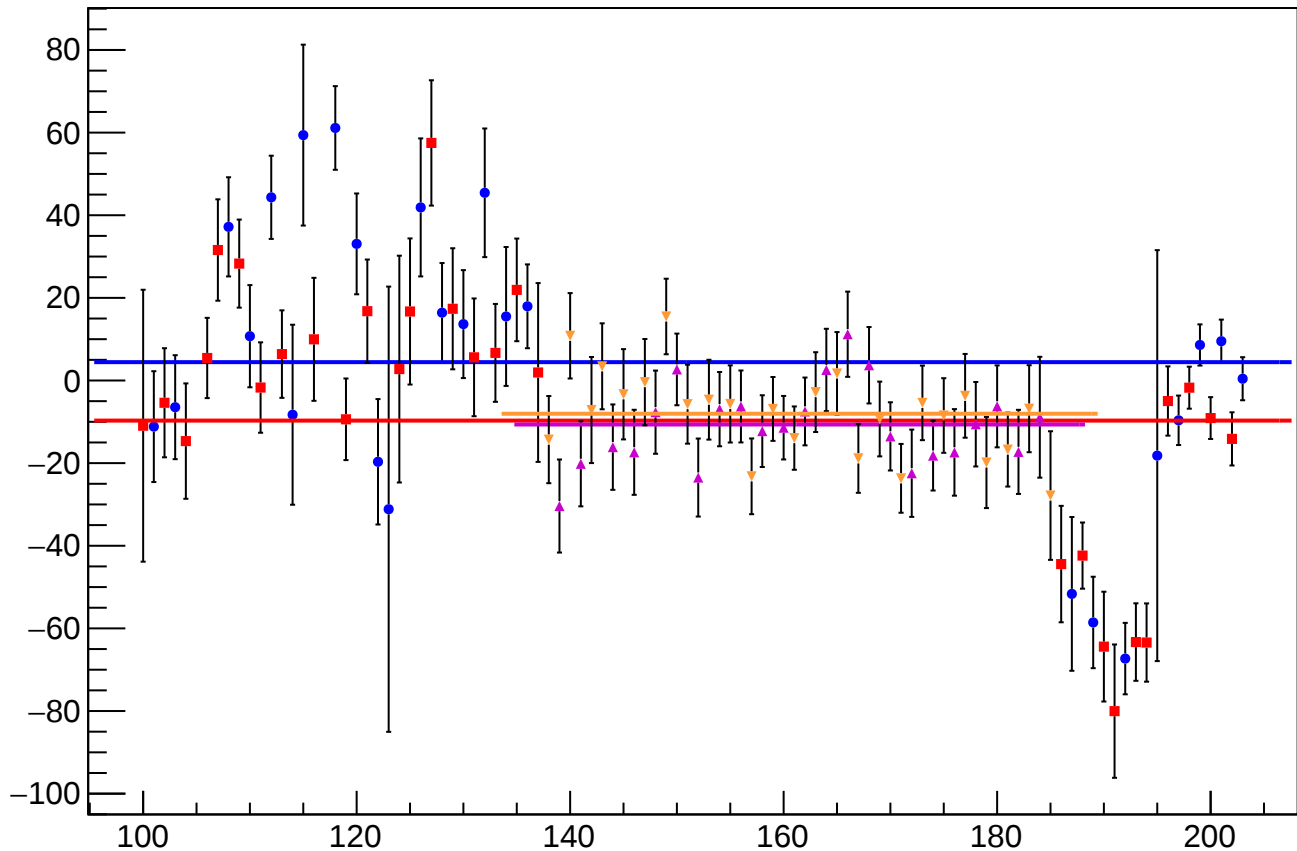
Right: 1261.096+/-0.198 χ^2/NDF : 10345032.8/53

In: 1274.494+/-0.177 χ^2/NDF : 6871295.2/47

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

All: 1254.915+/-0.120 χ^2/NDF : 12165057.1/100

diff_bpm0l09X_mean vs Slug, Sign Corrected



Right In: 4.442 $\pm$ 1.958 χ^2/NDF : 206.0/24

Left Out: -8.042 $\pm$ 1.918 χ^2/NDF : 26.3/24

Right Out: -9.703 $\pm$ 1.892 χ^2/NDF : 197.9/28

Left In: -10.653 $\pm$ 1.988 χ^2/NDF : 21.4/22

Left: -9.301 $\pm$ 1.380 χ^2/NDF : 48.6/47

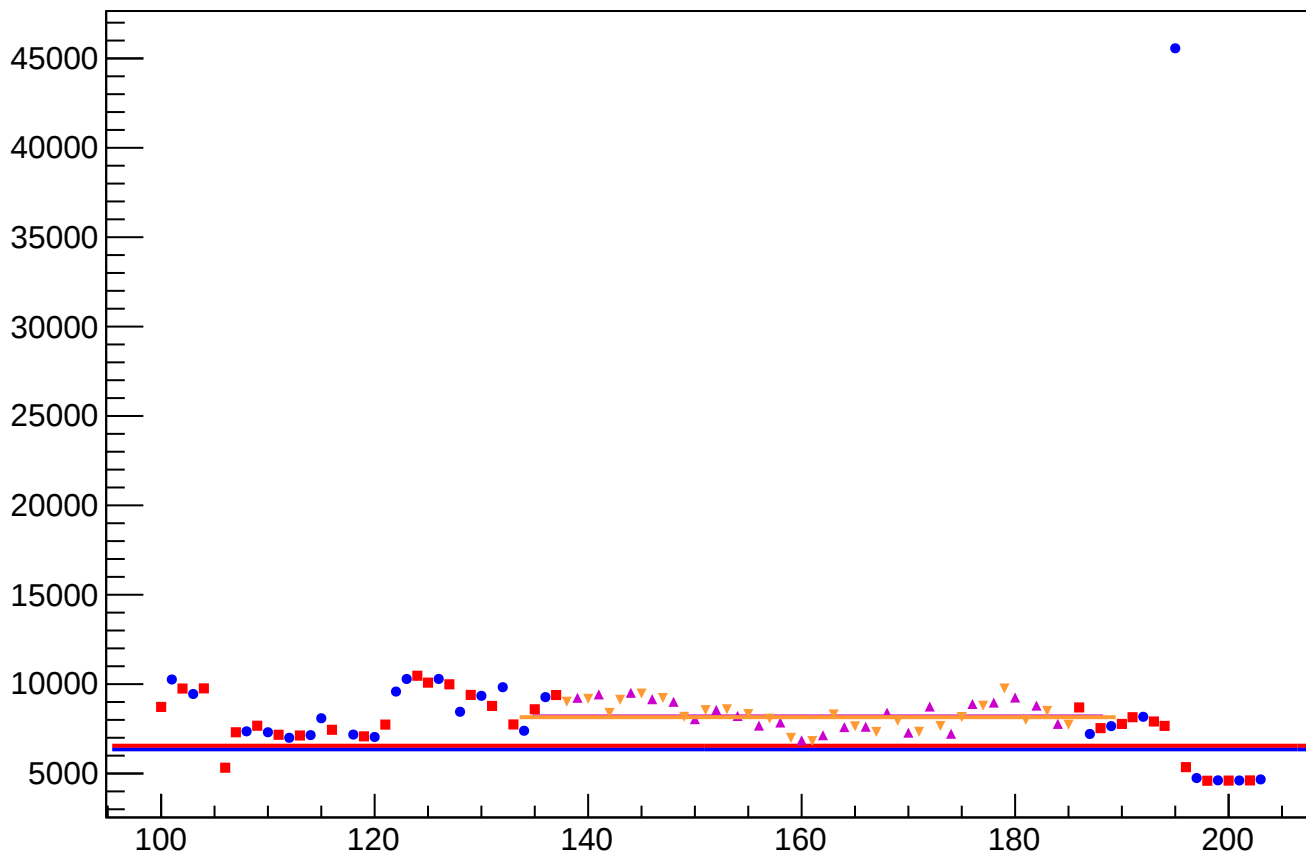
Right: -2.873 $\pm$ 1.361 χ^2/NDF : 430.8/53

In: -2.993 $\pm$ 1.395 χ^2/NDF : 256.6/47

Out: -8.884 $\pm$ 1.347 χ^2/NDF : 224.6/53

All: -6.041 $\pm$ 0.969 χ^2/NDF : 490.5/101

diff_bpm0l09X_rms vs Slug, Sign Corrected



Right In: 6352.313 $\pm$ 1.385 χ^2/NDF : 3192420.8/24

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

Right Out: 6555.833 $\pm$ 1.338 χ^2/NDF : 1790147.3/28

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

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

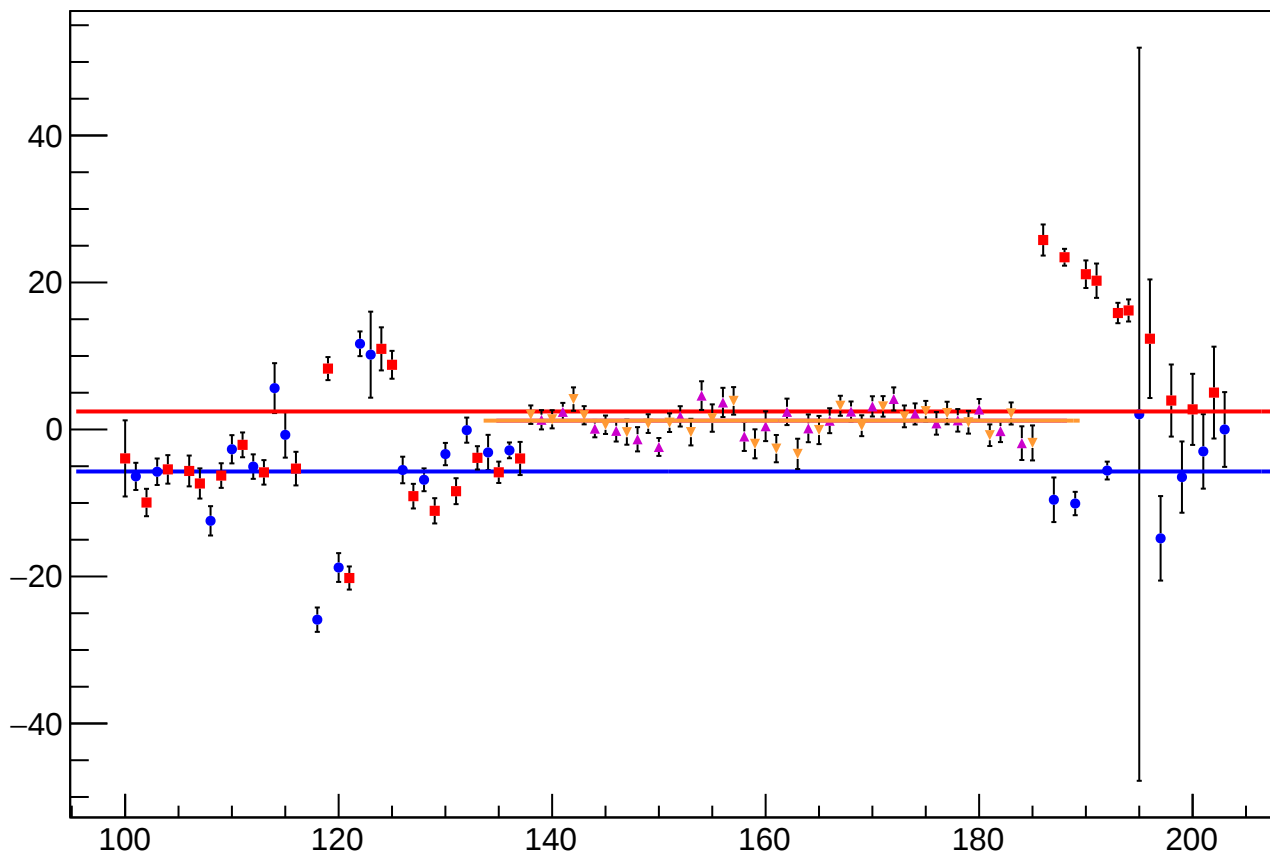
Right: 6457.560 $\pm$ 0.962 χ^2/NDF : 4993738.7/53

In: 7259.332 $\pm$ 0.986 χ^2/NDF : 4401769.9/47

Out: 7342.850 $\pm$ 0.953 χ^2/NDF : 2813337.2/53

All: 7302.548 $\pm$ 0.685 χ^2/NDF : 7218816.7/100

diff_bpm0l09Y_mean vs Slug, Sign Corrected



Right In: -5.714 ± 0.391 χ^2/NDF : 369.9/24

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

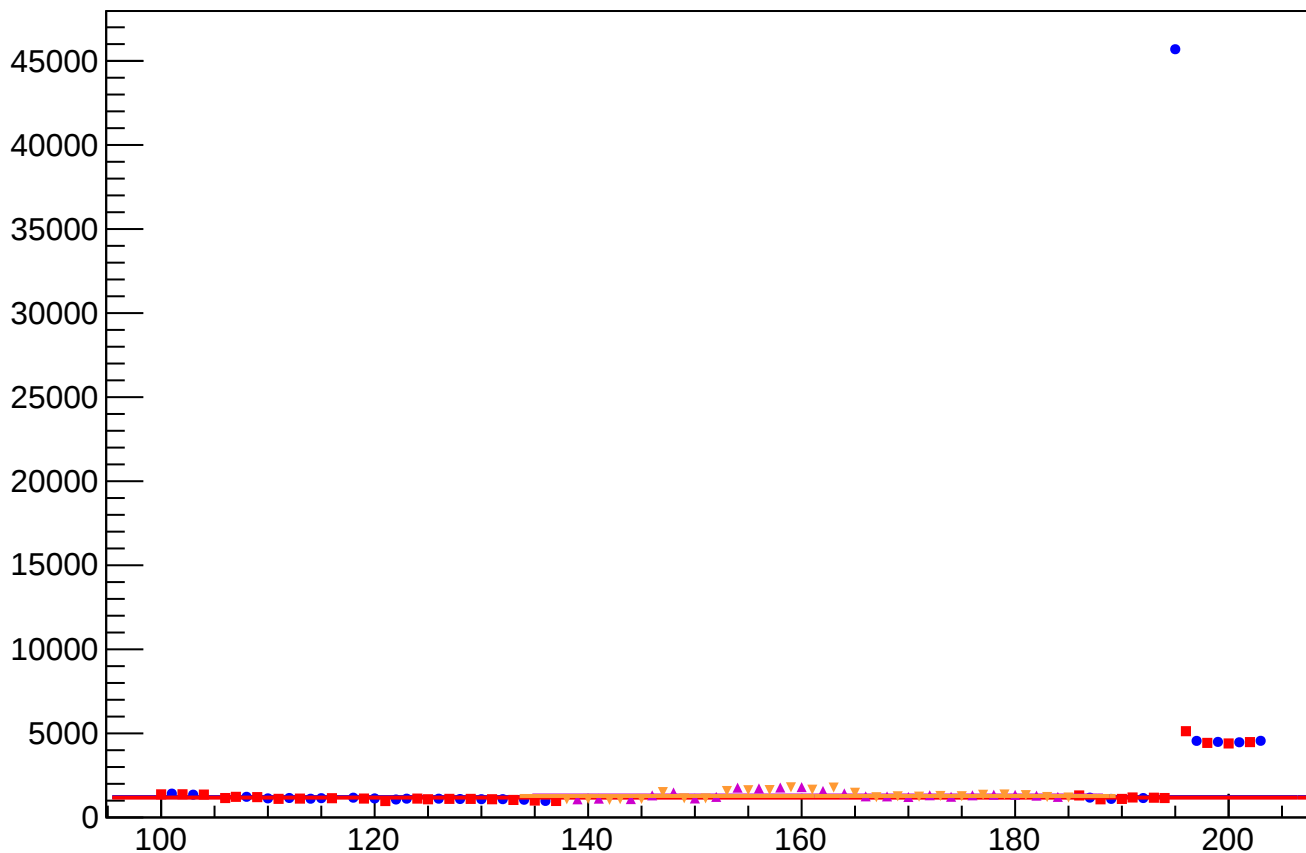
Right: -1.190 ± 0.261 χ^2/NDF : 2020.4/53

In: -1.559 ± 0.247 χ^2/NDF : 589.3/47

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

All: 0.211 ± 0.168 χ^2/NDF : 2130.7/101

diff_bpm0l09Y_rms vs Slug, Sign Corrected



Right In: 1211.311 $\pm$ 0.276 χ^2/NDF : 5097321.4/24

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

Right Out: 1181.588 $\pm$ 0.248 χ^2/NDF : 2999722.7/28

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

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

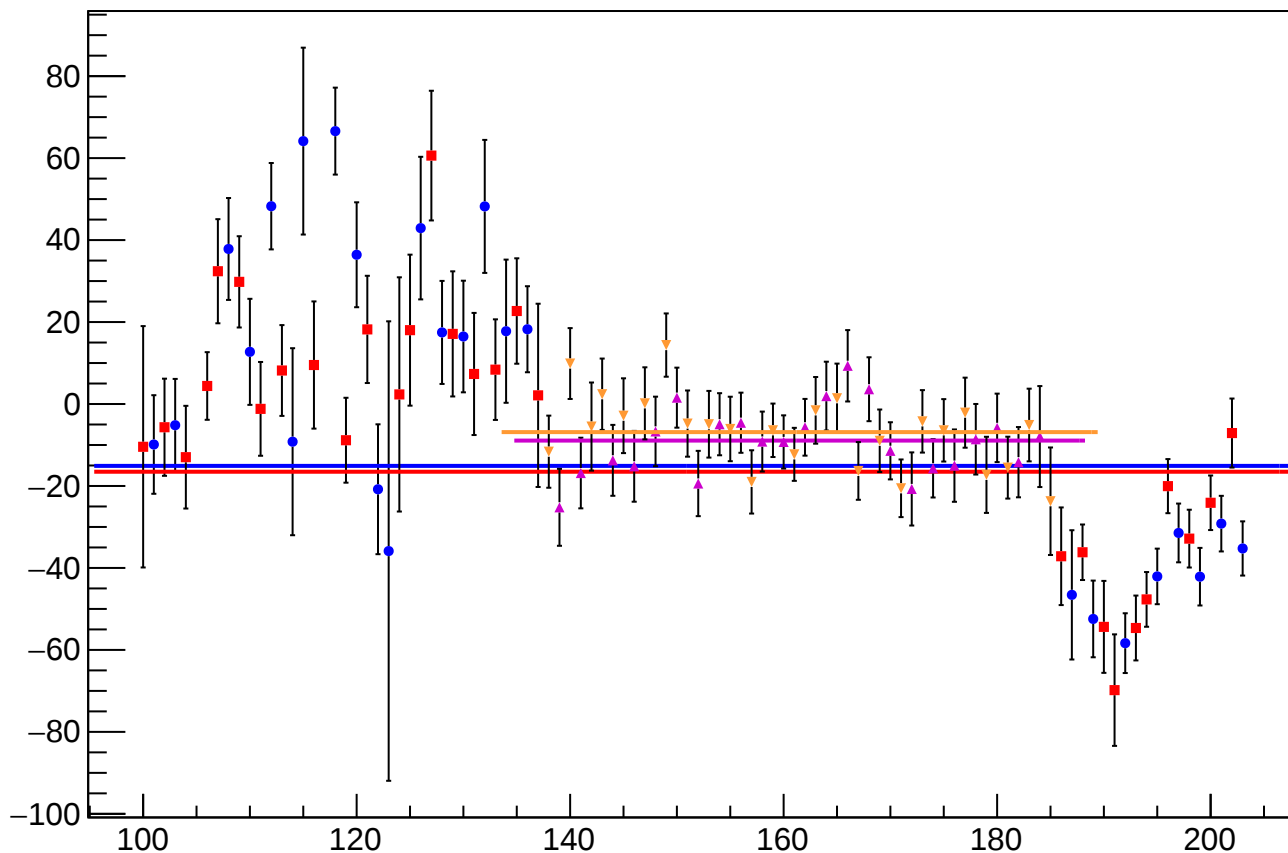
Right: 1194.841 $\pm$ 0.184 χ^2/NDF : 8103462.4/53

In: 1267.955 $\pm$ 0.174 χ^2/NDF : 5927754.1/47

Out: 1236.783 $\pm$ 0.162 χ^2/NDF : 3964485.8/53

All: 1251.208 $\pm$ 0.119 χ^2/NDF : 9909399.8/100

diff_bpm0l10X_mean vs Slug, Sign Corrected



Right In: -15.095 $\pm$ 2.081 χ^2/NDF : 304.3/24

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

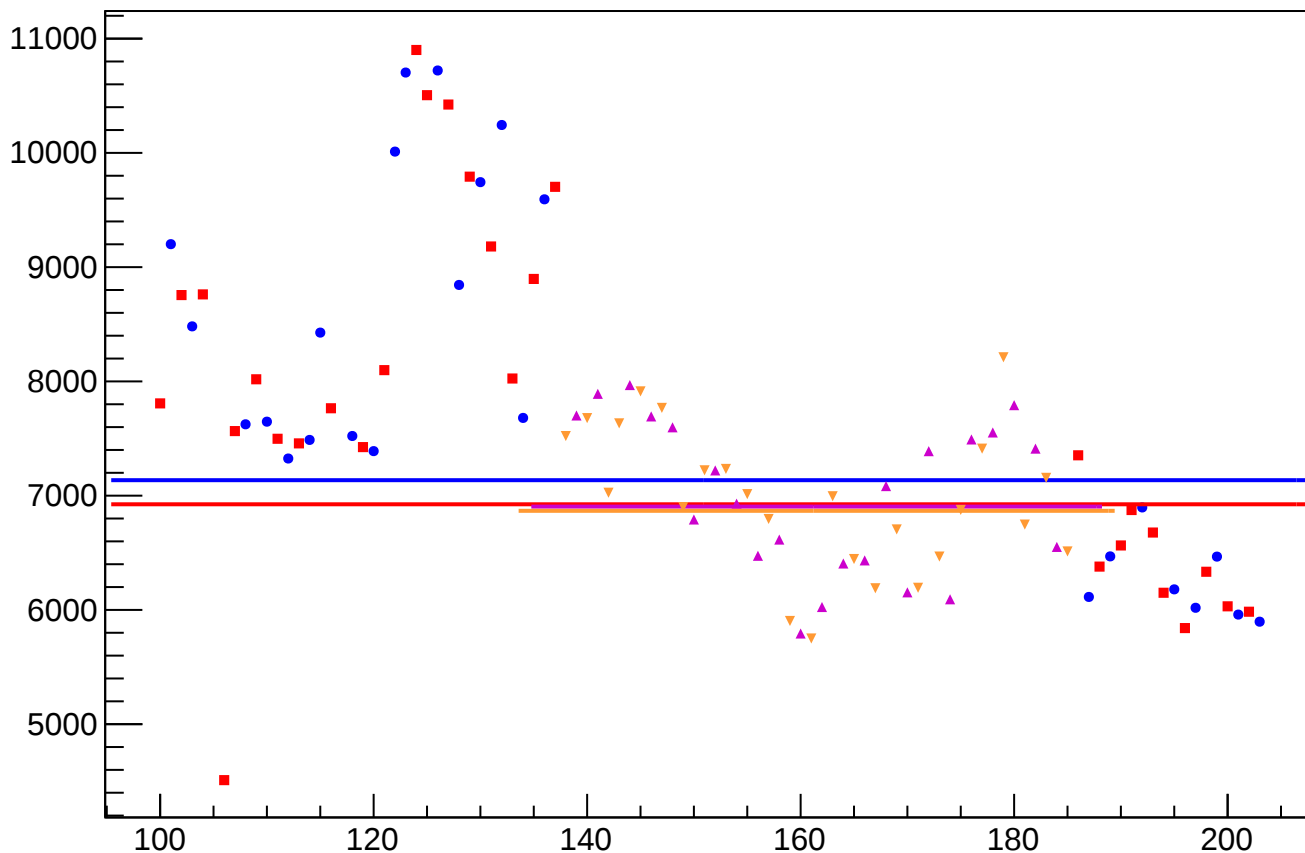
Right: -15.866 $\pm$ 1.412 χ^2/NDF : 501.9/53

In: -11.348 $\pm$ 1.305 χ^2/NDF : 331.5/47

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

All: -11.089 $\pm$ 0.898 χ^2/NDF : 572.4/101

diff_bpm0l10X_rms vs Slug, Sign Corrected



Right In: 7135.460+/-1.472 χ^2/NDF : 816316.7/24

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

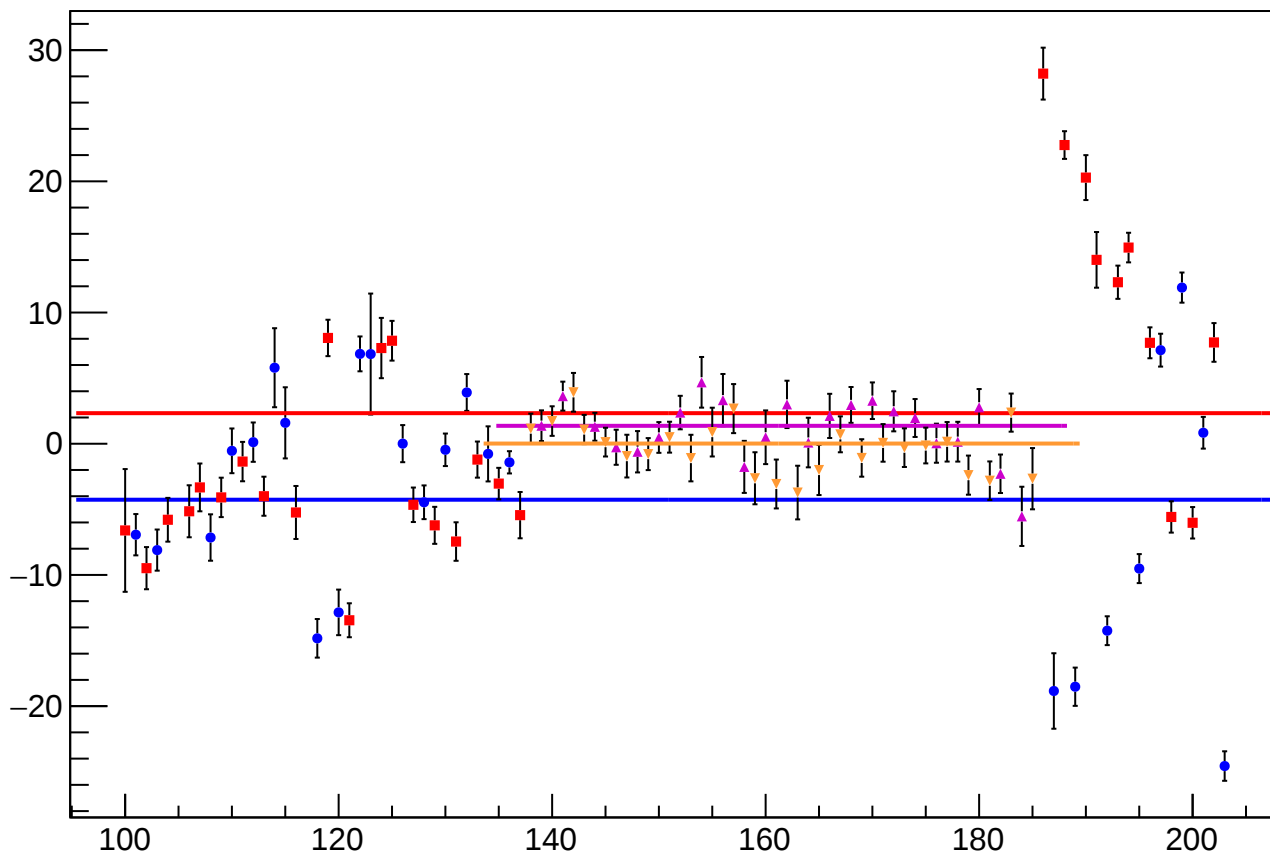
Right: 7021.594+/-0.999 χ^2/NDF : 1749734.3/53

In: 6995.000+/-0.923 χ^2/NDF : 1157229.3/47

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

All: 6940.235+/-0.635 χ^2/NDF : 2394180.1/100

diff_bpm0l10Y_mean vs Slug, Sign Corrected



Right In: -4.267 ± 0.282 χ^2/NDF : 1110.1/24

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

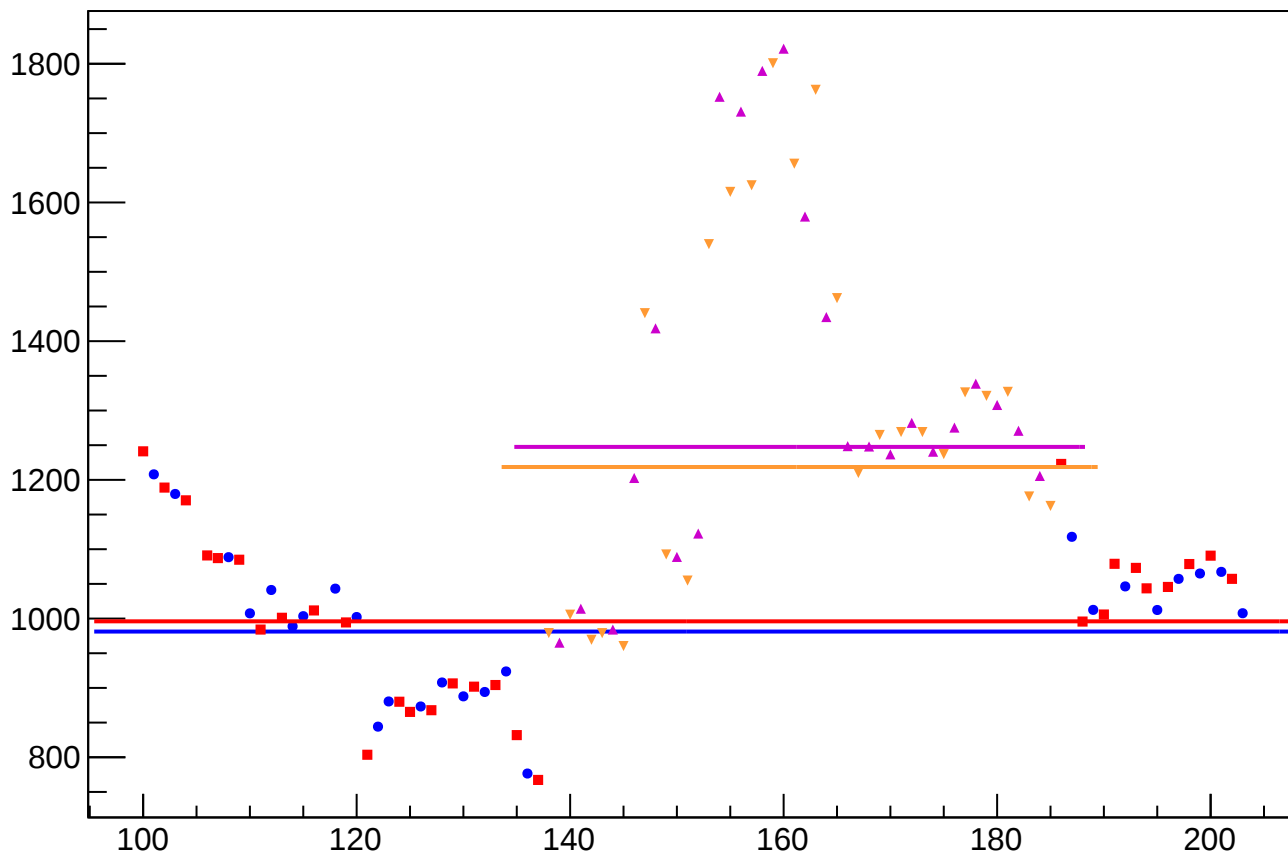
Right: -0.854 ± 0.196 χ^2/NDF : 2894.4/53

In: -1.674 ± 0.207 χ^2/NDF : 1332.0/47

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

All: -0.153 ± 0.143 χ^2/NDF : 3005.7/101

diff_bpm0l10Y_rms vs Slug, Sign Corrected



Right In: 981.266 $\pm$ 0.199 χ^2 /NDF: 309455.4/24

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

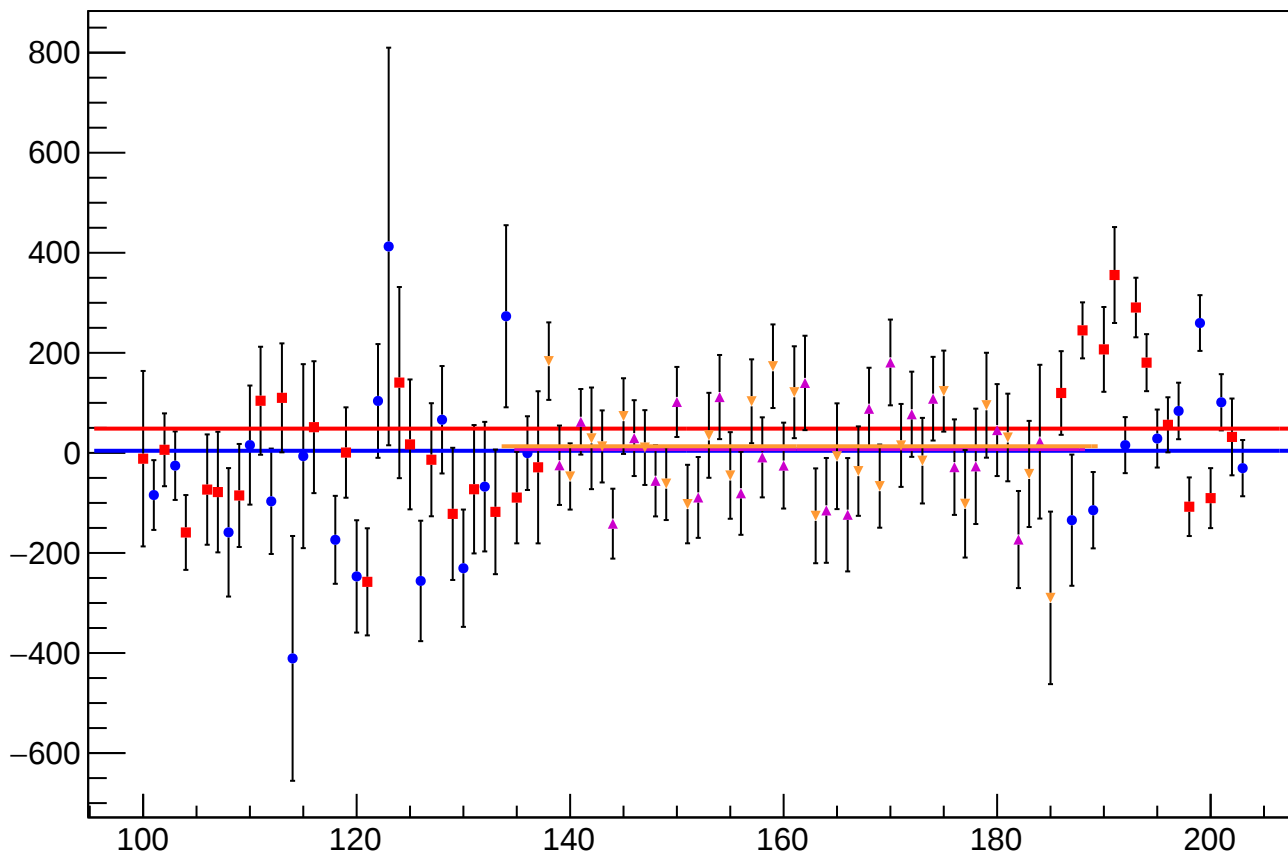
Right: 988.893 $\pm$ 0.139 χ^2 /NDF: 634163.9/53

In: 1103.824 $\pm$ 0.147 χ^2 /NDF:2202885.4/47

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

All: 1102.029 $\pm$ 0.101 χ^2 /NDF: 4416547.7/10

diff_bpm0r03X_mean vs Slug, Sign Corrected



Right In: 4.227 ± 16.675 $\chi^2/\text{NDF}: 59.8/24$

Left Out: 13.207 ± 17.146 $\chi^2/\text{NDF}: 26.8/24$

Right Out: 48.521 ± 15.886 $\chi^2/\text{NDF}: 89.9/28$

Left In: 7.618 ± 17.672 $\chi^2/\text{NDF}: 28.1/22$

Left: 10.497 ± 12.306 $\chi^2/\text{NDF}: 55.0/47$

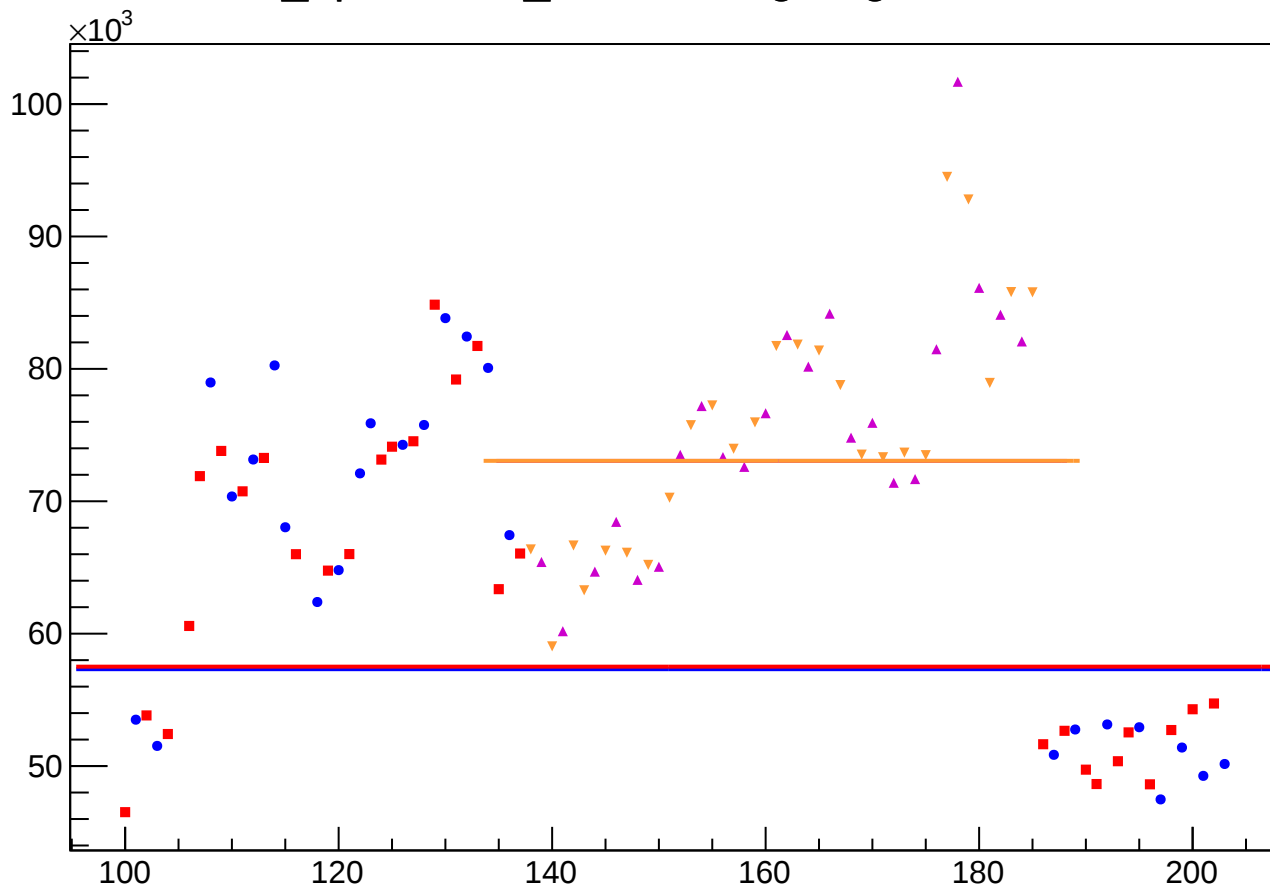
Right: 27.447 ± 11.502 $\chi^2/\text{NDF}: 153.3/53$

In: 5.825 ± 12.128 $\chi^2/\text{NDF}: 87.9/47$

Out: 32.209 ± 11.653 $\chi^2/\text{NDF}: 119.0/53$

All: 19.544 ± 8.403 $\chi^2/\text{NDF}: 209.3/101$

diff_bpm0r03X_rms vs Slug, Sign Corrected



Right In: 57317.835 ± 11.791 $\chi^2/\text{NDF}: 761246.1/24$

Left Out: 73054.401 ± 12.124 $\chi^2/\text{NDF}: 473050.9/24$

Right Out: 57507.331 ± 11.233 $\chi^2/\text{NDF}: 709286.9/28$

Left In: 73045.500 ± 12.496 $\chi^2/\text{NDF}: 463525.5/22$

Left: 73050.085 ± 8.701 $\chi^2/\text{NDF}: 936576.6/47$

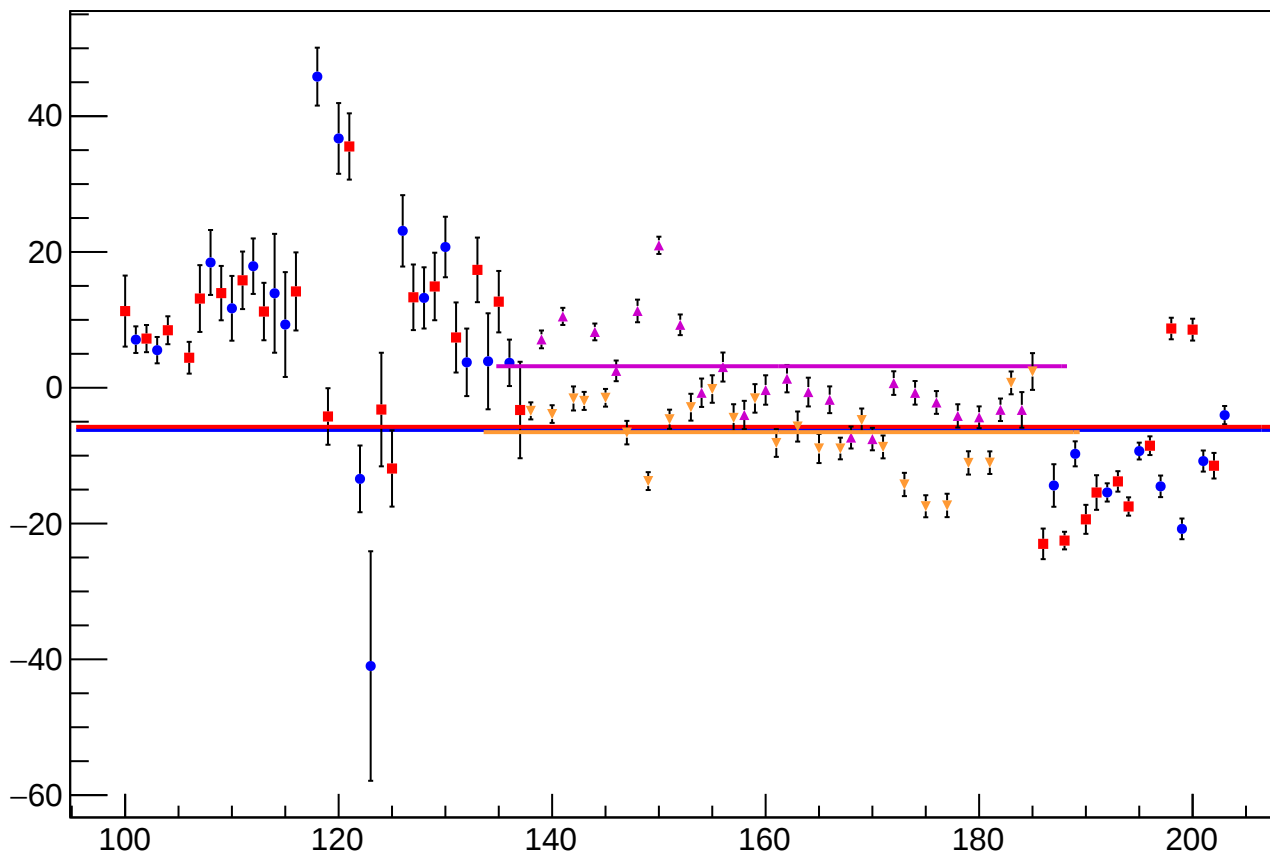
Right: 57417.172 ± 8.133 $\chi^2/\text{NDF}: 1470668.5/53$

In: 64725.716 ± 8.576 $\chi^2/\text{NDF}: 2062792.3/47$

Out: 64688.666 ± 8.240 $\chi^2/\text{NDF}: 2067146.3/53$

All: 64706.452 ± 5.942 $\chi^2/\text{NDF}: 4129948.3/100$

diff_bpm0r03Y_mean vs Slug, Sign Corrected



Right In: -6.209 ± 0.471 χ^2/NDF : 685.0/24

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

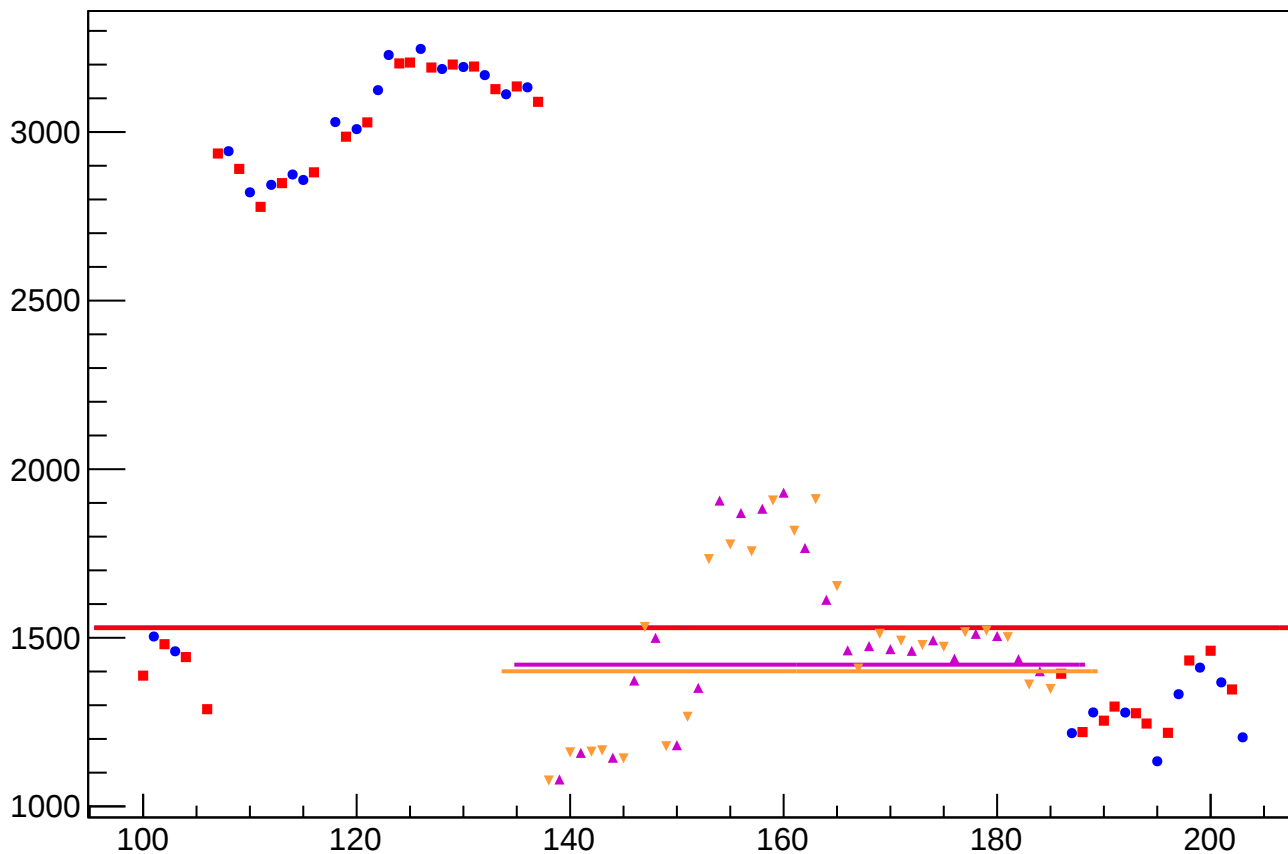
Right: -5.969 ± 0.323 χ^2/NDF : 1611.5/53

In: -0.127 ± 0.279 χ^2/NDF : 1430.1/47

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

All: -3.341 ± 0.192 χ^2/NDF : 2863.9/101

diff_bpm0r03Y_rms vs Slug, Sign Corrected



Right In: 1530.704 ± 0.333

$\chi^2/\text{NDF}: 3307727.7/24$

Left Out: 1400.637 ± 0.235

$\chi^2/\text{NDF}: 1037921.6/24$

Right Out: 1528.622 ± 0.314

$\chi^2/\text{NDF}: 3285296.0/28$

Left In: 1420.285 ± 0.245

$\chi^2/\text{NDF}: 905186.2/22$

Left: 1410.037 ± 0.169

$\chi^2/\text{NDF}: 1946462.8/47$

Right: 1529.602 ± 0.228

$\chi^2/\text{NDF}: 6593044.4/53$

In: 1459.102 ± 0.197

$\chi^2/\text{NDF}: 4284330.6/47$

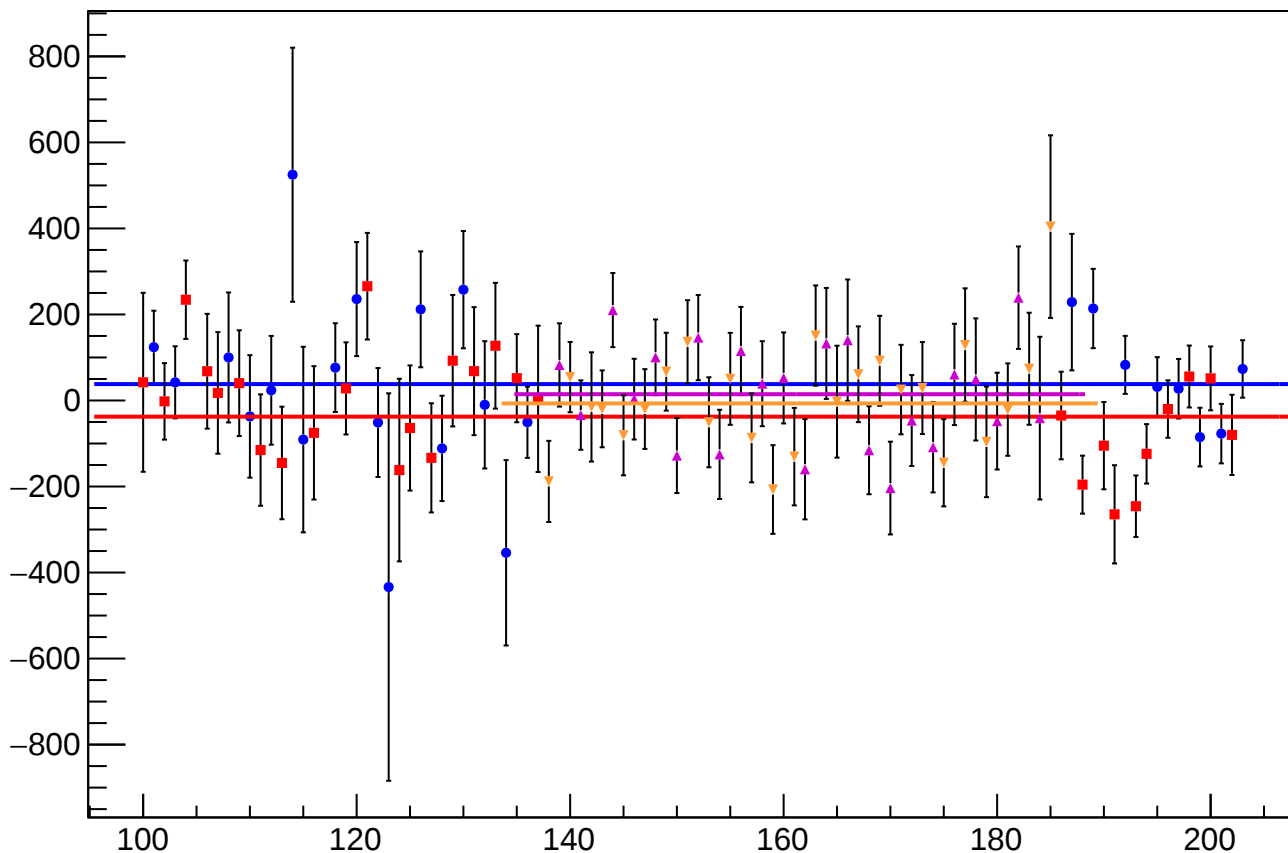
Out: 1446.532 ± 0.188

$\chi^2/\text{NDF}: 4429918.4/53$

All: 1452.512 ± 0.136

$\chi^2/\text{NDF}: 8716377.6/100$

diff_bpm0r05X_mean vs Slug, Sign Corrected



Right In: 38.086 $\pm$ 19.917 χ^2/NDF : 30.7/24

Left Out: -6.789 $\pm$ 21.213 χ^2/NDF : 24.7/24

Right Out: -37.628 $\pm$ 19.035 χ^2/NDF : 45.4/28

Left In: 14.611 $\pm$ 21.846 χ^2/NDF : 29.8/22

Left: 3.596 $\pm$ 15.219 χ^2/NDF : 55.0/47

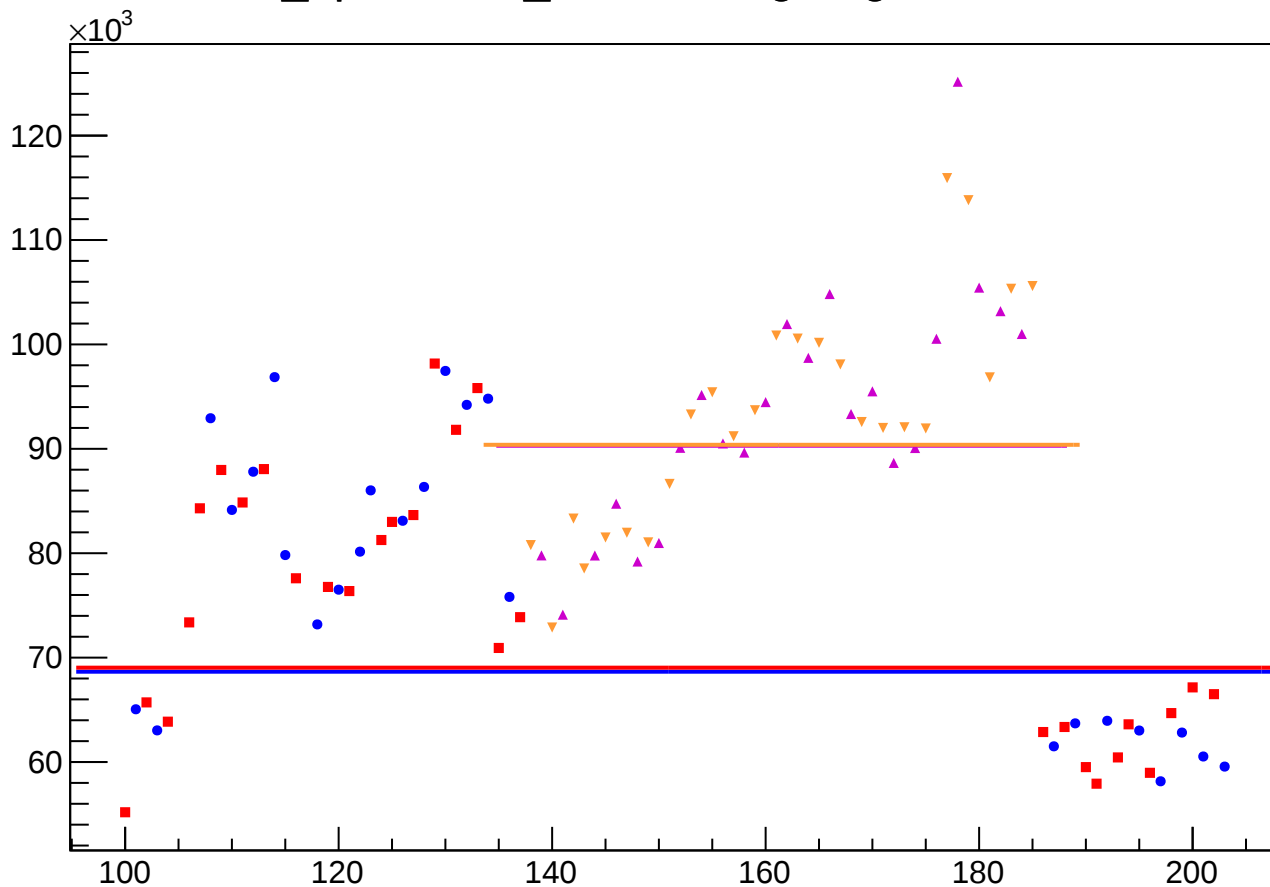
Right: -1.485 $\pm$ 13.761 χ^2/NDF : 83.7/53

In: 27.430 $\pm$ 14.718 χ^2/NDF : 61.2/47

Out: -23.873 $\pm$ 14.167 χ^2/NDF : 71.3/53

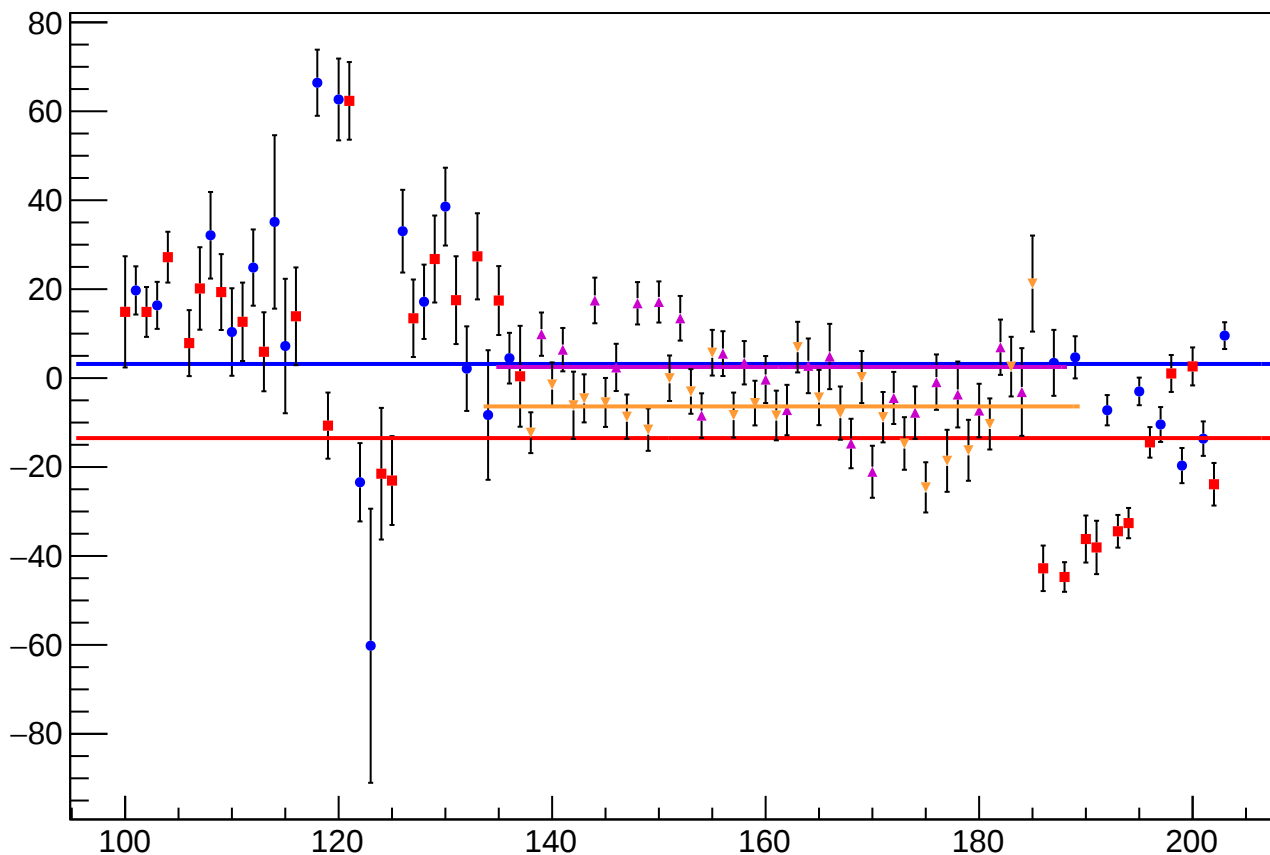
All: 0.801 $\pm$ 10.207 χ^2/NDF : 138.8/101

diff_bpm0r05X_rms vs Slug, Sign Corrected



Right In: 68651.997 ± 14.083	$\chi^2/\text{NDF}: 604083.9/24$	Left: 90340.563 ± 10.761	$\chi^2/\text{NDF}: 923003.7/47$
Left Out: 90384.853 ± 15.000	$\chi^2/\text{NDF}: 461648.2/24$	Right: 68853.790 ± 9.730	$\chi^2/\text{NDF}: 1186621.2/53$
Right Out: 69038.106 ± 13.459	$\chi^2/\text{NDF}: 582144.5/28$	In: 78475.036 ± 10.407	$\chi^2/\text{NDF}: 2137273.3/47$
Left In: 90293.591 ± 15.448	$\chi^2/\text{NDF}: 461337.5/22$	Out: 78559.395 ± 10.018	$\chi^2/\text{NDF}: 2165734.1/53$
		All: 78518.824 ± 7.217	$\chi^2/\text{NDF}: 4303041.5/100$

diff_bpm0r05Y_mean vs Slug, Sign Corrected



Right In: 3.178 ± 1.118 χ^2/NDF : 273.8/24

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

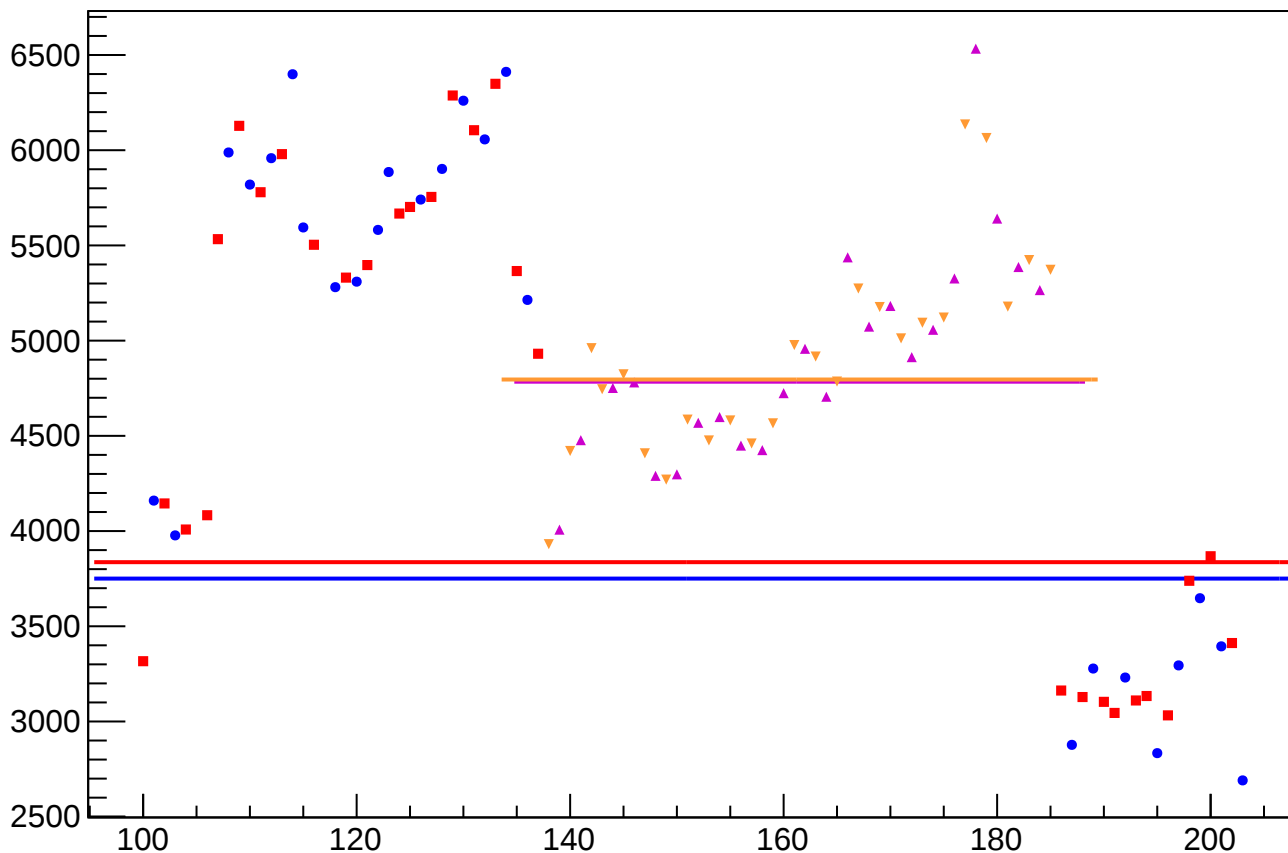
Right: -5.433 ± 0.778 χ^2/NDF : 925.7/53

In: 2.851 ± 0.804 χ^2/NDF : 352.4/47

Out: -10.066 ± 0.779 χ^2/NDF : 603.4/53

All: -3.806 ± 0.560 χ^2/NDF : 1088.9/101

diff_bpm0r05Y_rms vs Slug, Sign Corrected



Right In: 3750.420 $\pm$ 0.791 χ^2/NDF : 1913284.4/24

Left Out: 4795.847 $\pm$ 0.795 χ^2/NDF : 361249.7/24

Right Out: 3836.652 $\pm$ 0.765 χ^2/NDF : 1776625.9/28

Left In: 4784.434 $\pm$ 0.817 χ^2/NDF : 357507.2/22

Left: 4790.301 $\pm$ 0.570 χ^2/NDF : 718857.1/47

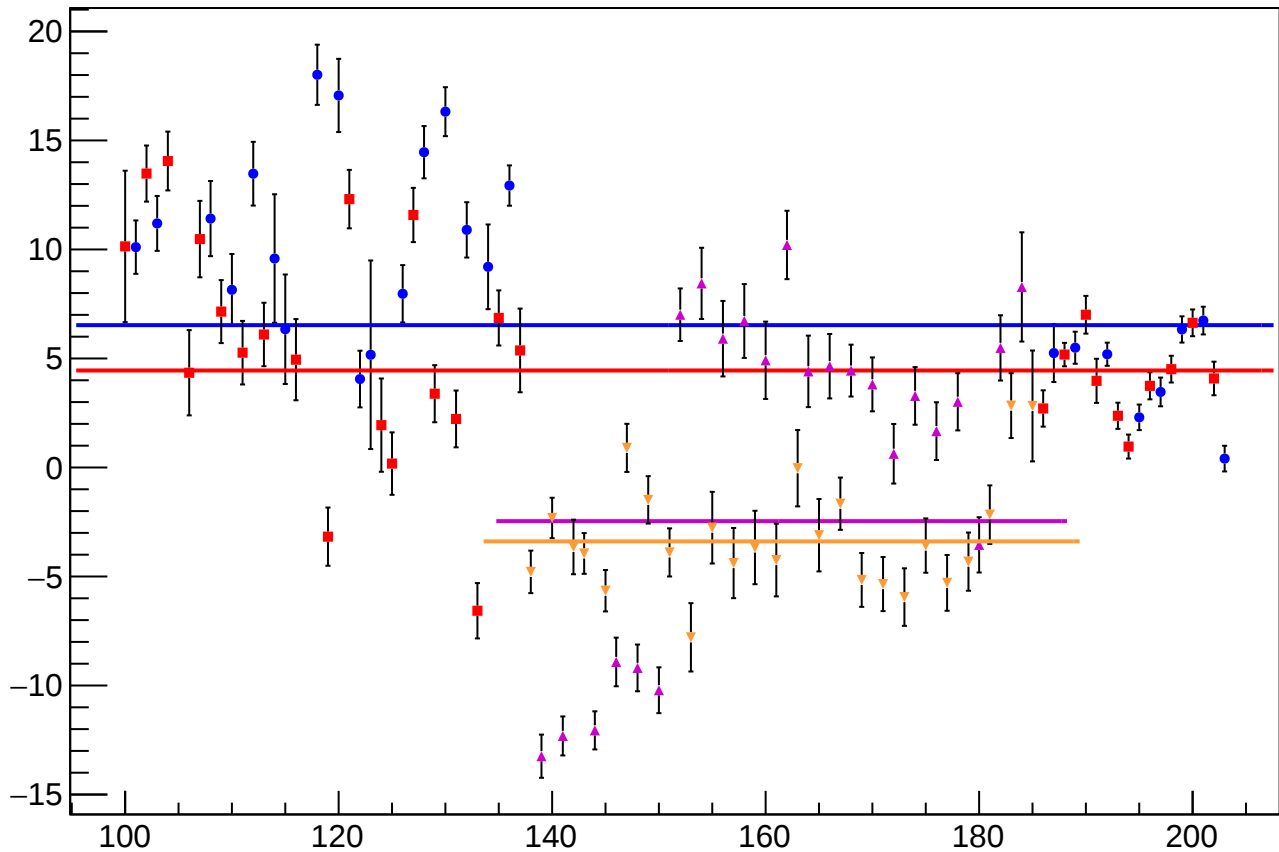
Right: 3794.964 $\pm$ 0.550 χ^2/NDF : 3696051.1/53

In: 4250.413 $\pm$ 0.568 χ^2/NDF : 3097326.2/47

Out: 4298.061 $\pm$ 0.551 χ^2/NDF : 2893922.3/53

All: 4274.968 $\pm$ 0.396 χ^2/NDF : 5994870.3/10

diff_bpm2i01X_mean vs Slug, Sign Corrected



Right In: 6.528 ± 0.190 $\chi^2/\text{NDF}: 541.2/24$

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 $\chi^2/\text{NDF}: 1012.2/47$

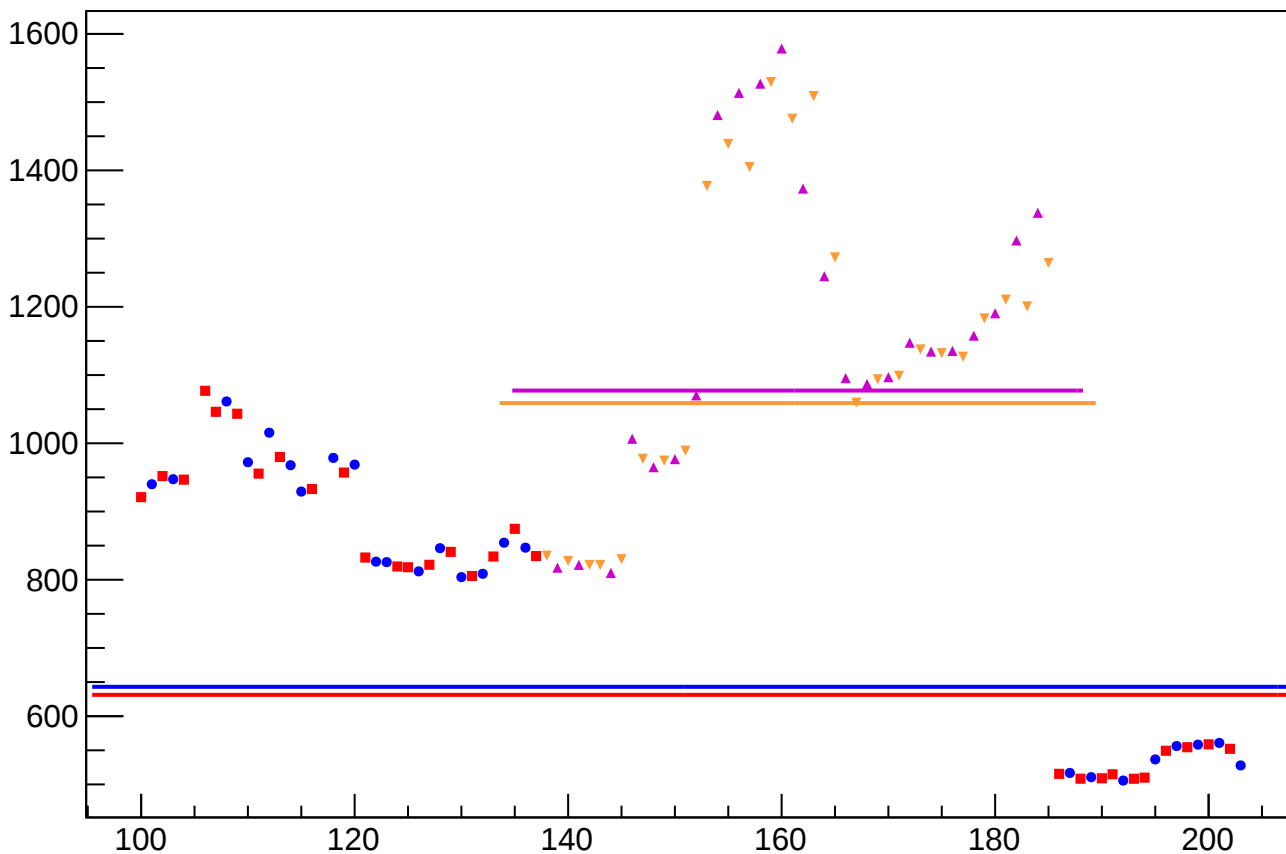
Right: 5.420 ± 0.130 $\chi^2/\text{NDF}: 998.9/53$

In: 3.466 ± 0.154 $\chi^2/\text{NDF}: 2231.4/47$

Out: 1.844 ± 0.145 $\chi^2/\text{NDF}: 1116.5/53$

All: 2.607 ± 0.106 $\chi^2/\text{NDF}: 3406.4/101$

diff_bpm2i01X_rms vs Slug, Sign Corrected



Right In: 643.076 $\pm$ 0.134 χ^2 /NDF: 1602974.3/24

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

Right Out: 631.297 $\pm$ 0.126 χ^2 /NDF: 1893050.8/28

Left In: 1077.284 $\pm$ 0.187 χ^2 /NDF:1280349.9/22

Left: 1067.683 $\pm$ 0.129 χ^2 /NDF: 2688612.0/47

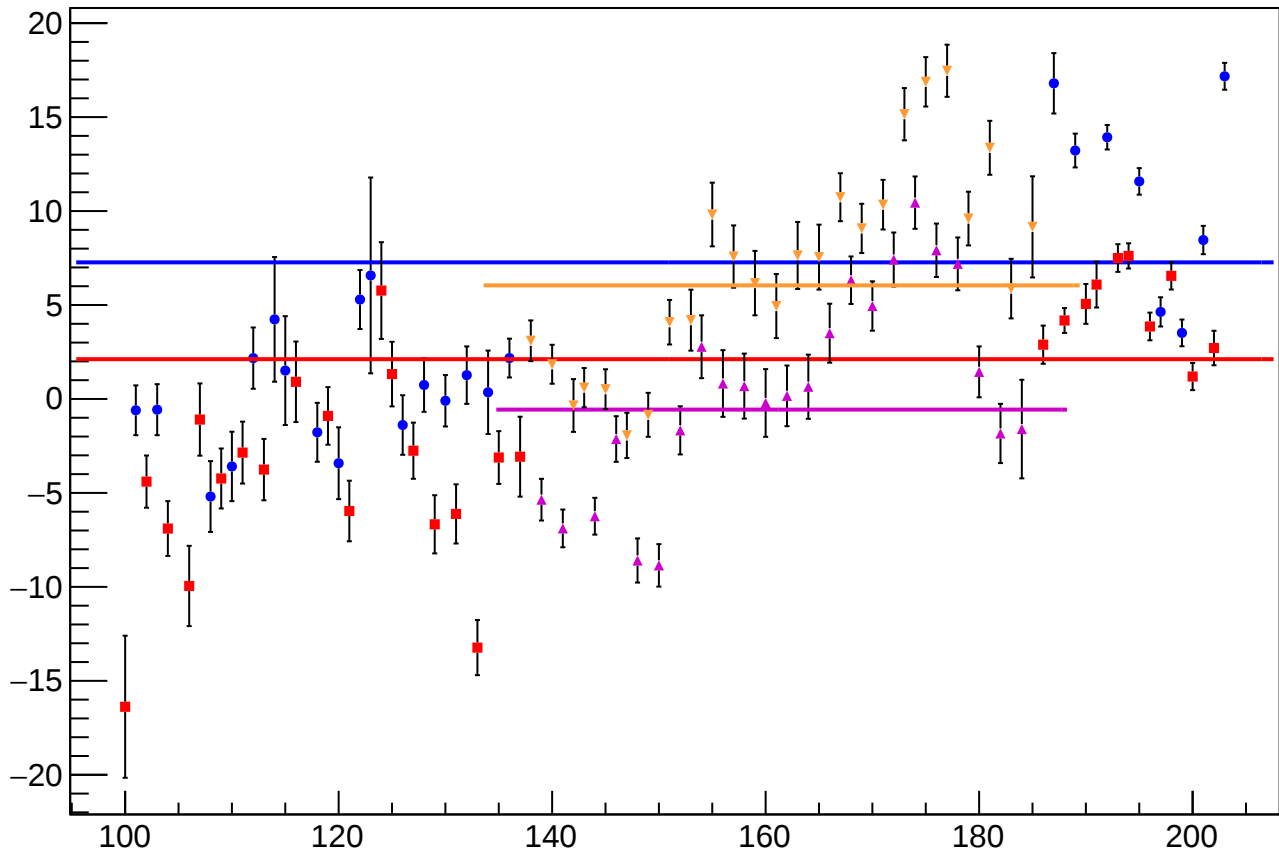
Right: 636.801 $\pm$ 0.092 χ^2 /NDF: 3500118.3/53

In: 791.002 $\pm$ 0.109 χ^2 /NDF:6440569.7/47

Out: 773.418 $\pm$ 0.103 χ^2 /NDF:7134031.7/53

All: 781.689 $\pm$ 0.075 χ^2 /NDF: 13588357.2/100

diff_bpm2i01Y_mean vs Slug, Sign Corrected



Right In: 7.269 ± 0.225 $\chi^2/\text{NDF}: 811.1/24$

Left Out: 6.045 ± 0.272 $\chi^2/\text{NDF}: 430.8/24$

Right Out: 2.117 ± 0.211 $\chi^2/\text{NDF}: 581.7/28$

Left In: -0.566 ± 0.284 $\chi^2/\text{NDF}: 417.0/22$

Left: 2.888 ± 0.196 $\chi^2/\text{NDF}: 1130.7/47$

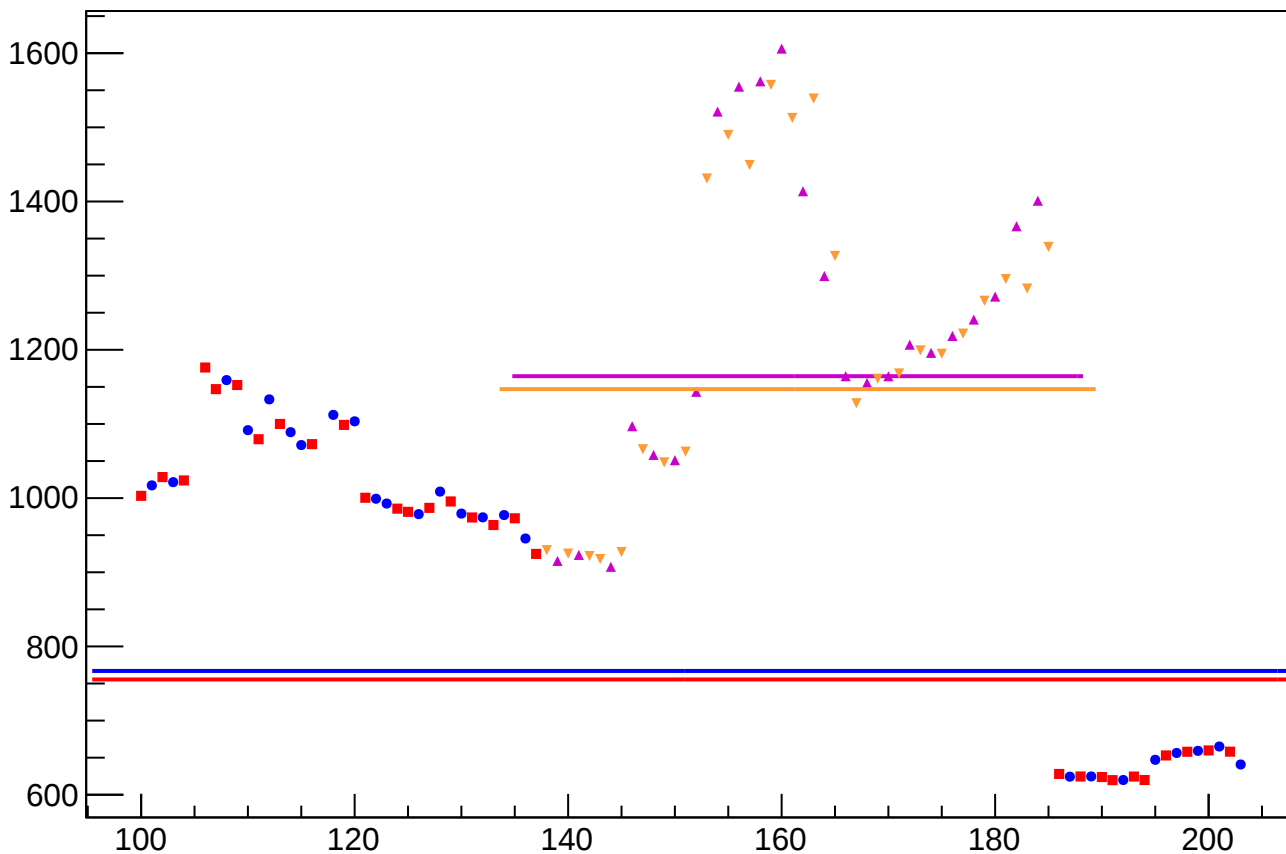
Right: 4.531 ± 0.154 $\chi^2/\text{NDF}: 1670.9/53$

In: 4.246 ± 0.176 $\chi^2/\text{NDF}: 1695.1/47$

Out: 3.599 ± 0.167 $\chi^2/\text{NDF}: 1142.7/53$

All: 3.904 ± 0.121 $\chi^2/\text{NDF}: 2844.9/101$

diff_bpm2i01Y_rms vs Slug, Sign Corrected



Right In: 766.936 $\pm$ 0.159 χ^2 /NDF: 1304503.4/24

Left Out: 1146.960 $\pm$ 0.192 χ^2 /NDF:1045761.4/24

Right Out: 755.463 $\pm$ 0.150 χ^2 /NDF: 1522680.6/28

Left In: 1164.432 $\pm$ 0.201 χ^2 /NDF:944112.0/22

Left: 1155.305 $\pm$ 0.139 χ^2 /NDF: 1993824.0/47

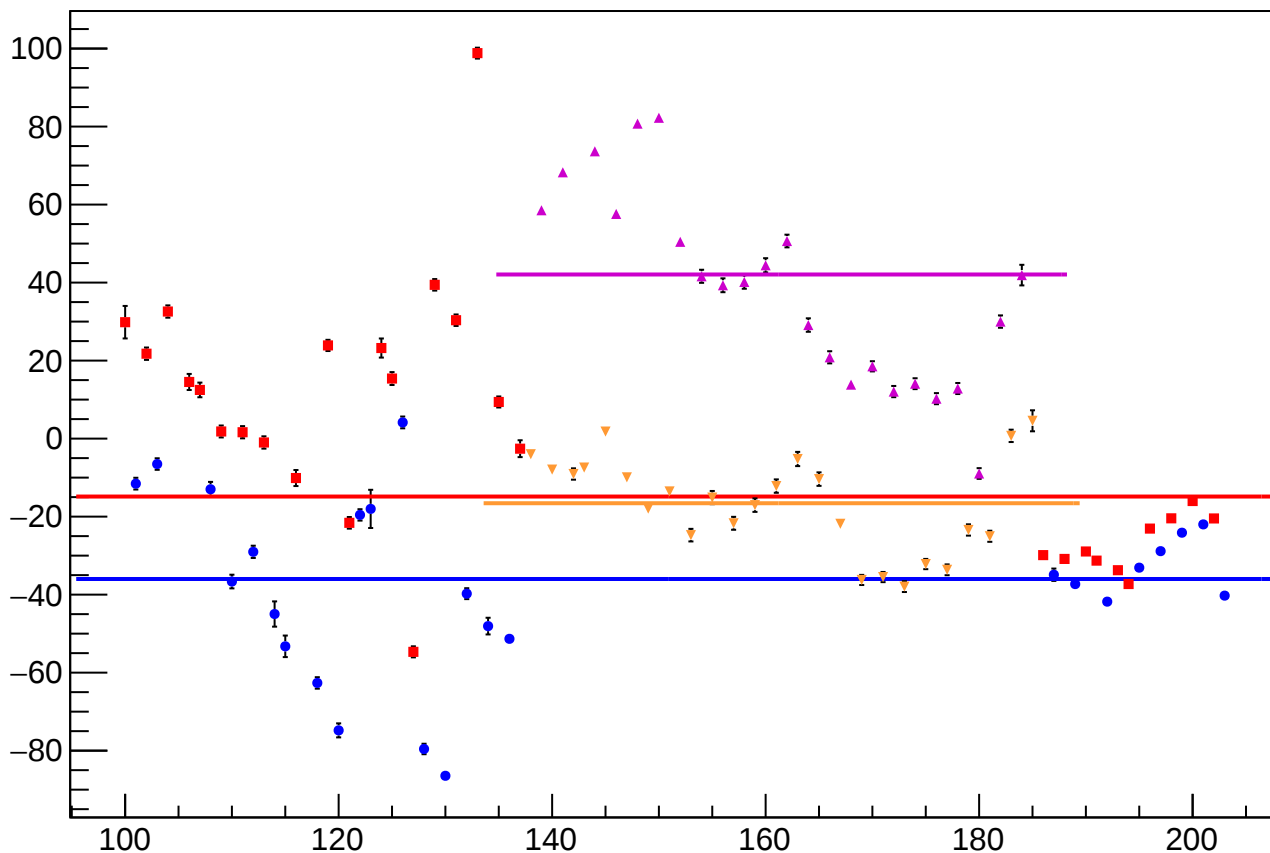
Right: 760.838 $\pm$ 0.109 χ^2 /NDF: 2829942.9/53

In: 920.309 $\pm$ 0.125 χ^2 /NDF:4652767.5/47

Out: 903.157 $\pm$ 0.118 χ^2 /NDF:5154916.6/53

All: 911.253 $\pm$ 0.086 χ^2 /NDF: 9817657.5/103

diff_bpm2i02X_mean vs Slug, Sign Corrected



Right In: -35.990±0.222 χ^2/NDF : 6200.1/24

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

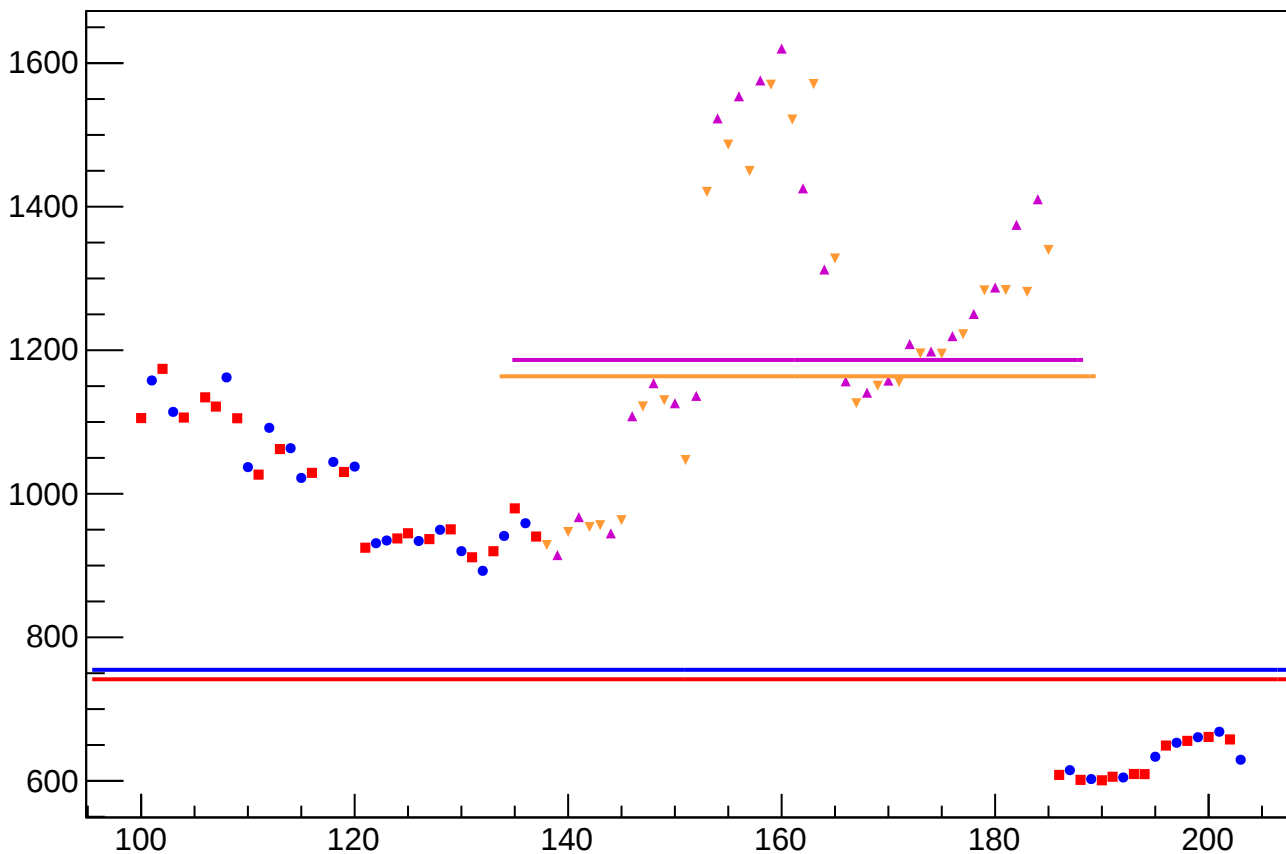
Right: -24.729±0.152 χ^2/NDF : 27964.7/53

In: -7.090±0.176 χ^2/NDF :60459.6/47

Out: -15.473±0.166 χ^2/NDF :18874.5/53

All: -11.531±0.121 χ^2/NDF : 80537.1/101

diff_bpm2i02X_rms vs Slug, Sign Corrected



Right In: 754.748 ± 0.157 $\chi^2/\text{NDF}: 1316302.9/24$

Left Out: 1163.691 ± 0.195 $\chi^2/\text{NDF}: 936079.1/24$

Right Out: 741.552 ± 0.147 $\chi^2/\text{NDF}: 1537305.4/28$

Left In: 1186.476 ± 0.204 $\chi^2/\text{NDF}: 833420.3/22$

Left: 1174.525 ± 0.141 $\chi^2/\text{NDF}: 1776015.7/47$

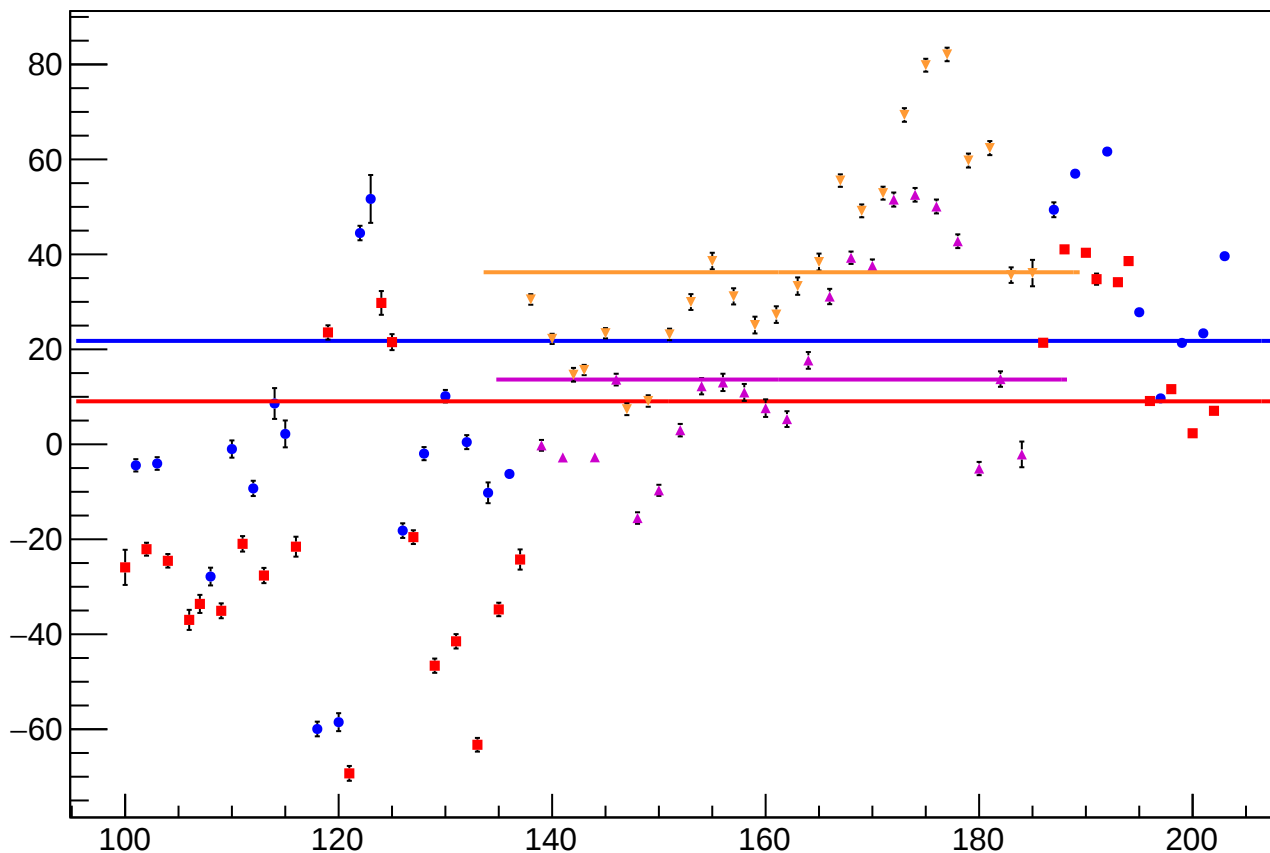
Right: 747.718 ± 0.107 $\chi^2/\text{NDF}: 2857385.5/53$

In: 914.571 ± 0.124 $\chi^2/\text{NDF}: 4958933.1/47$

Out: 894.586 ± 0.117 $\chi^2/\text{NDF}: 5471992.9/53$

All: 903.985 ± 0.085 $\chi^2/\text{NDF}: 10444602.4/10$

diff_bpm2i02Y_mean vs Slug, Sign Corrected



Right In: 21.779 $\pm$ 0.219 χ^2/NDF : 16124.6/24

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

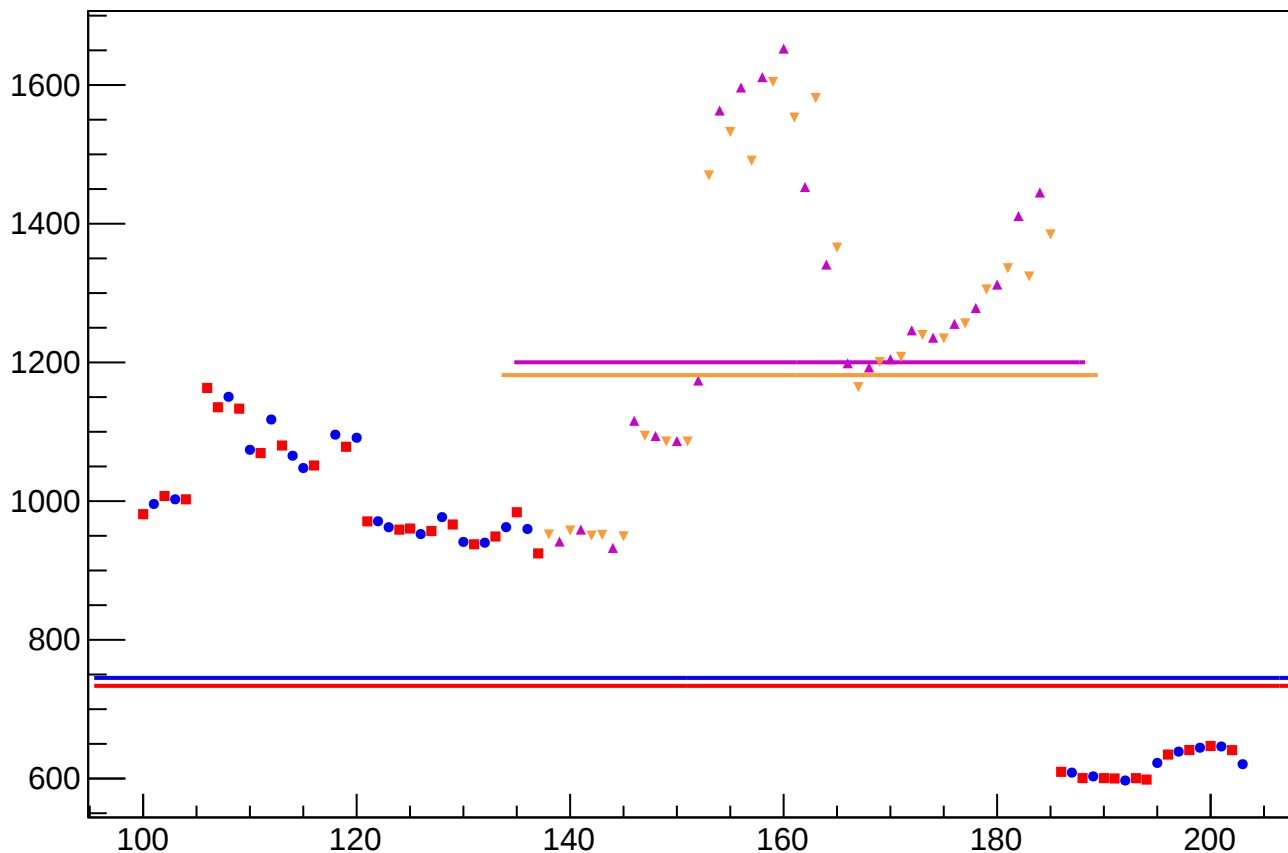
Right: 15.014 $\pm$ 0.150 χ^2/NDF : 38781.0/53

In: 18.857 $\pm$ 0.175 χ^2/NDF : 21798.0/47

Out: 18.583 $\pm$ 0.166 χ^2/NDF : 32782.2/53

All: 18.712 $\pm$ 0.120 χ^2/NDF : 54581.4/101

diff_bpm2i02Y_rms vs Slug, Sign Corrected



Right In: 745.103+/-0.155 χ^2/NDF : 1379451.9/24

Left Out: 1181.732+/-0.198 χ^2/NDF : 1043520.8/24

Right Out: 733.634+/-0.145 χ^2/NDF : 1604540.7/28

Left In: 1200.198+/-0.207 χ^2/NDF : 938224.7/22

Left: 1190.549+/-0.143 χ^2/NDF : 1985902.3/47

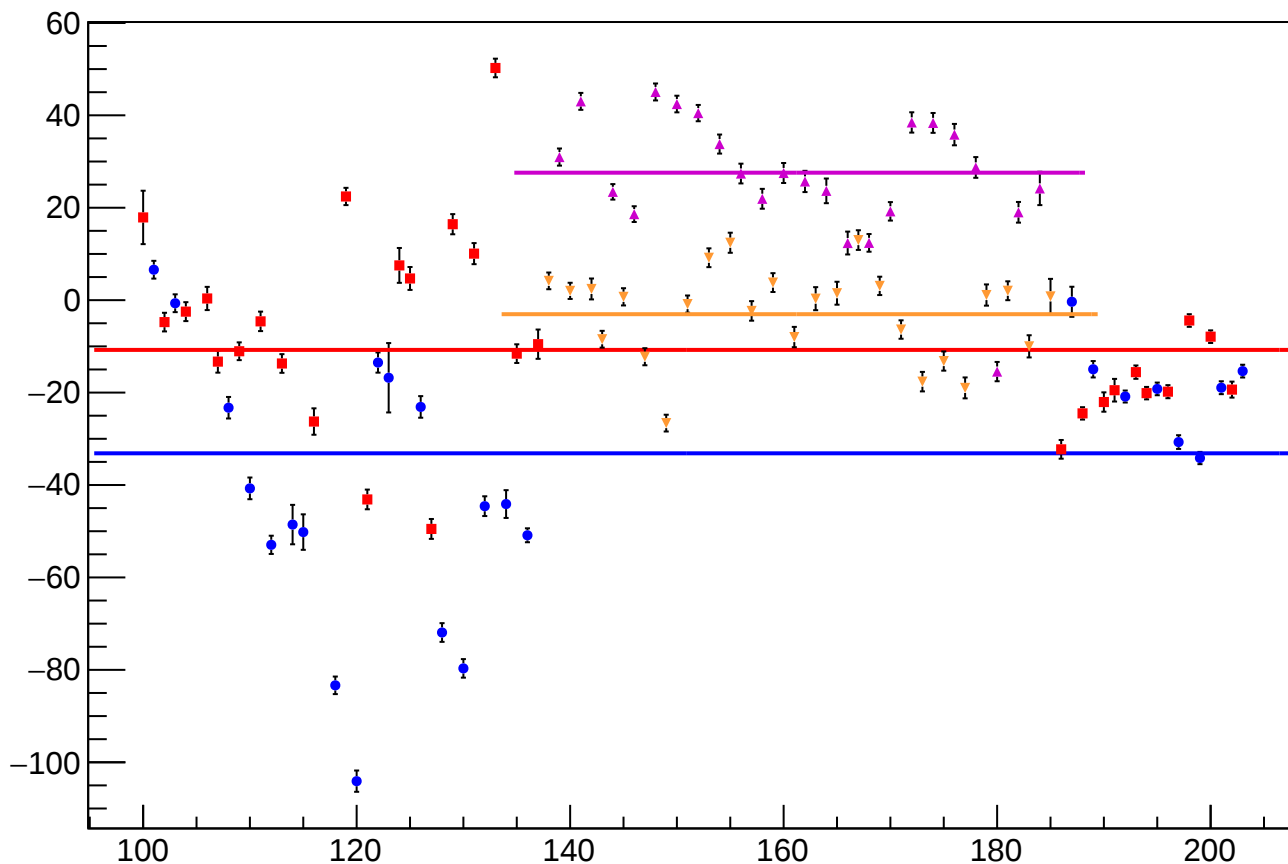
Right: 739.005+/-0.106 χ^2/NDF : 2986906.1/53

In: 908.463+/-0.124 χ^2/NDF : 5415088.8/47

Out: 890.717+/-0.117 χ^2/NDF : 5977673.2/53

All: 899.085+/-0.085 χ^2/NDF : 11403578.2/10

diff_bpm0i02X_mean vs Slug, Sign Corrected



Right In: -33.141±0.377 χ^2/NDF : 4380.4/24

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

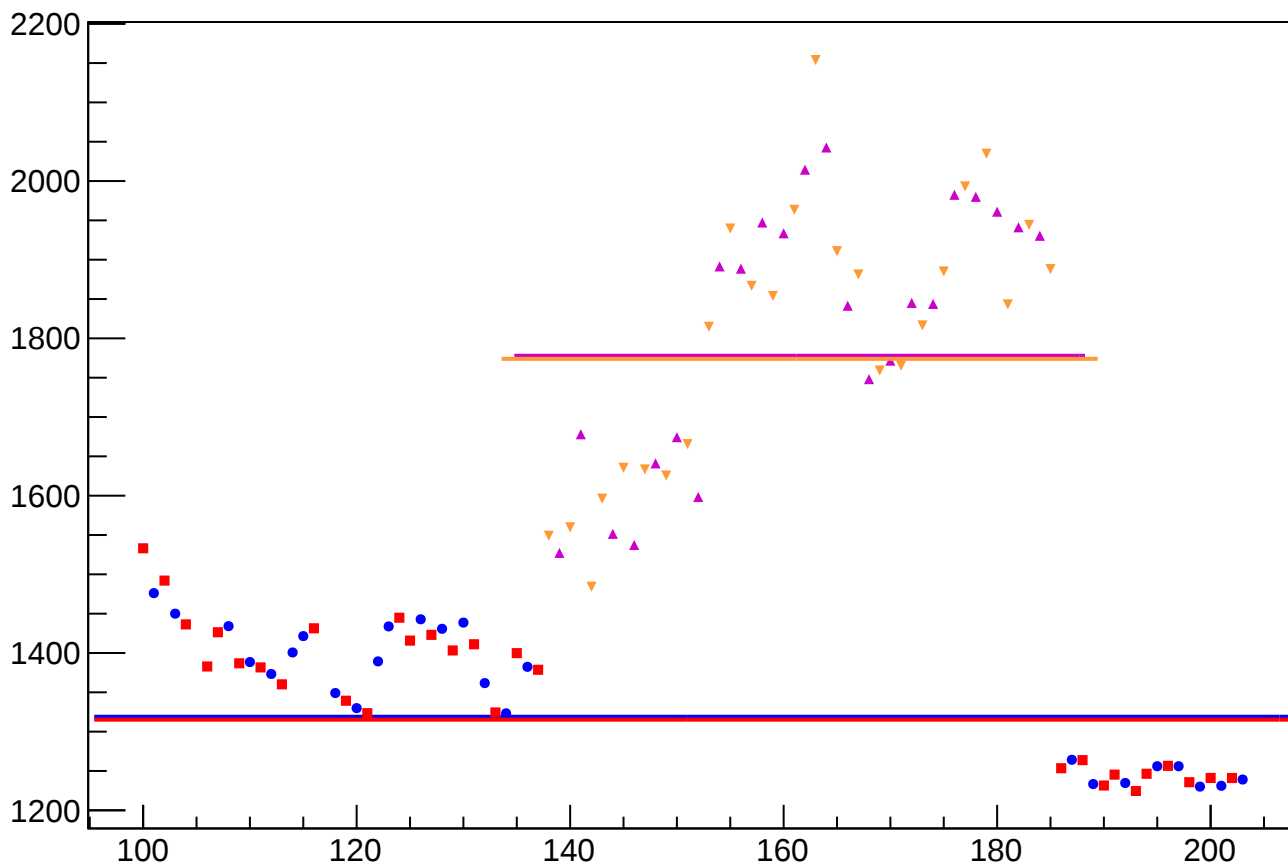
Right: -21.366±0.260 χ^2/NDF : 8839.2/53

In: -6.644±0.283 χ^2/NDF :16632.1/47

Out: -7.466±0.271 χ^2/NDF :3364.0/53

All: -7.073±0.196 χ^2/NDF : 20000.5/101

diff_bpm0i02X_rms vs Slug, Sign Corrected



Right In: 1318.928 $\pm$ 0.267 χ^2 /NDF: 104171.1/24

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

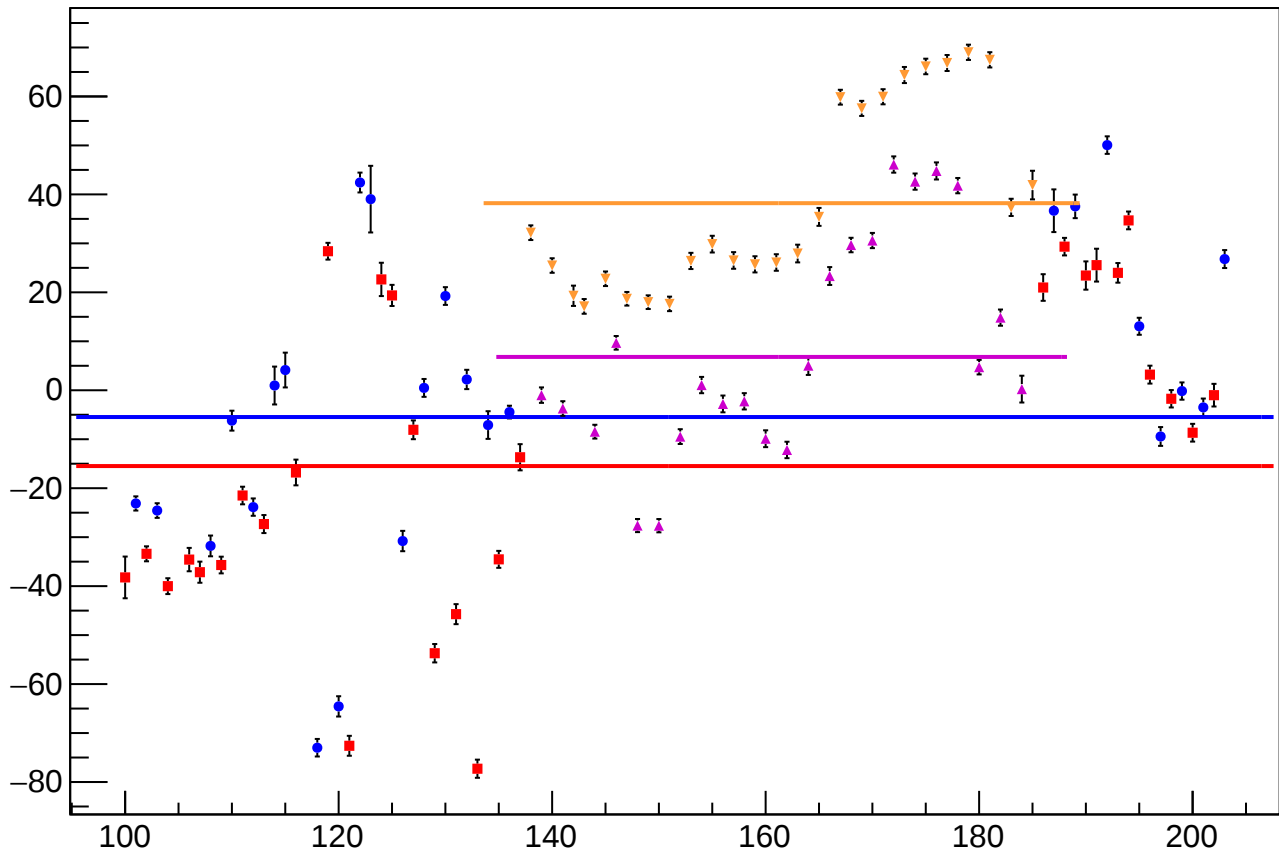
Right: 1316.982 $\pm$ 0.184 χ^2 /NDF: 209017.6/53

In: 1519.194 $\pm$ 0.200 χ^2 /NDF: 1693761.3/47

Out: 1511.024 $\pm$ 0.192 χ^2 /NDF: 1817942.6/53

All: 1514.929 $\pm$ 0.139 χ^2 /NDF: 3512571.7/100

diff_bpm0i02Y_mean vs Slug, Sign Corrected



Right In: -5.466+/-0.391 χ^2/NDF : 5590.9/24

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

Right Out: -15.479+/-0.375 χ^2/NDF : 6969.9/28

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

Left: 22.967+/-0.232 χ^2/NDF : 12584.4/47

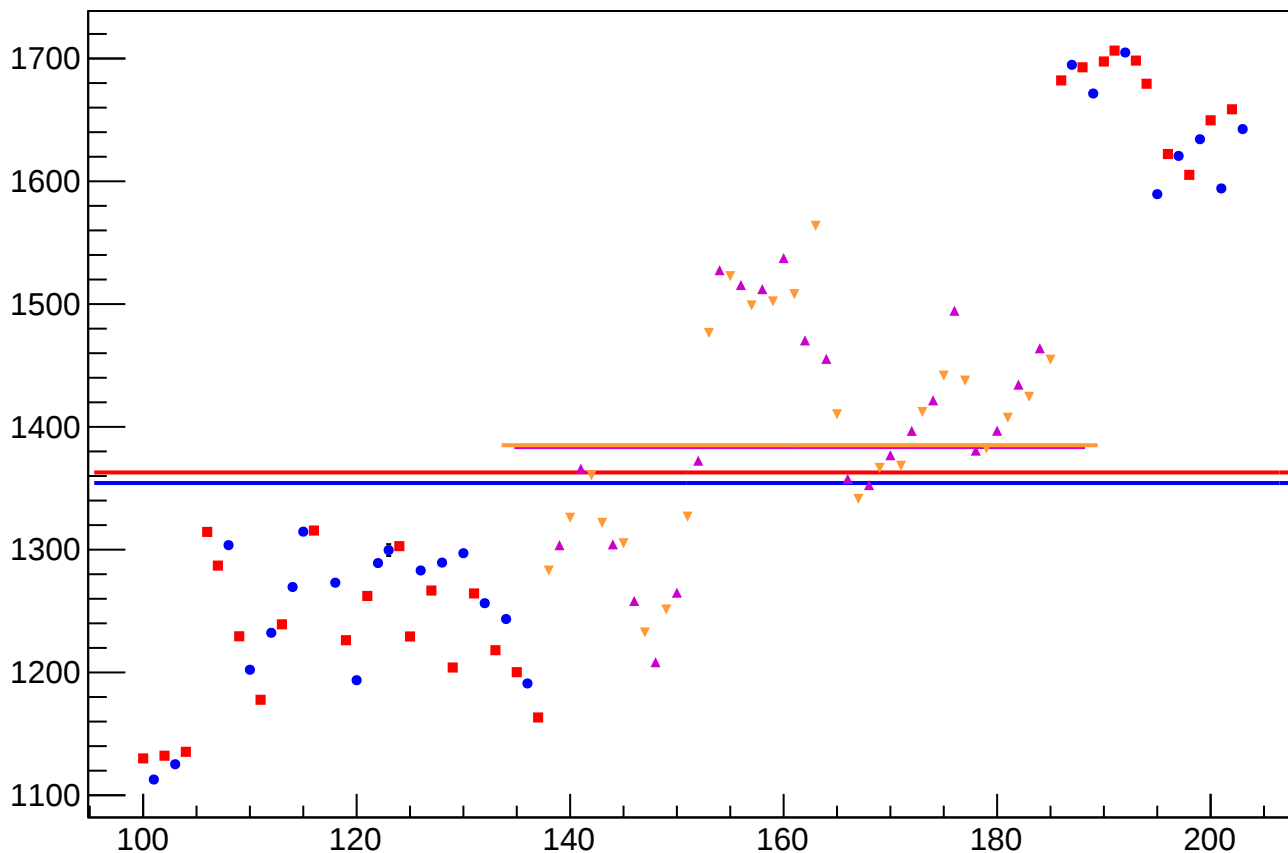
Right: -10.681+/-0.271 χ^2/NDF : 12902.2/53

In: 1.650+/-0.254 χ^2/NDF :10656.5/47

Out: 15.320+/-0.245 χ^2/NDF :22233.5/53

All: 8.721+/-0.176 χ^2/NDF : 34393.6/101

diff_bpm0i02Y_rms vs Slug, Sign Corrected



Right In: 1354.286 ± 0.277 $\chi^2/\text{NDF}: 524075.5/24$

Left Out: 1385.063 ± 0.229 $\chi^2/\text{NDF}: 146001.5/24$

Right Out: 1362.880 ± 0.265 $\chi^2/\text{NDF}: 648629.0/28$

Left In: 1383.558 ± 0.235 $\chi^2/\text{NDF}: 154696.0/22$

Left: 1384.333 ± 0.164 $\chi^2/\text{NDF}: 300718.5/47$

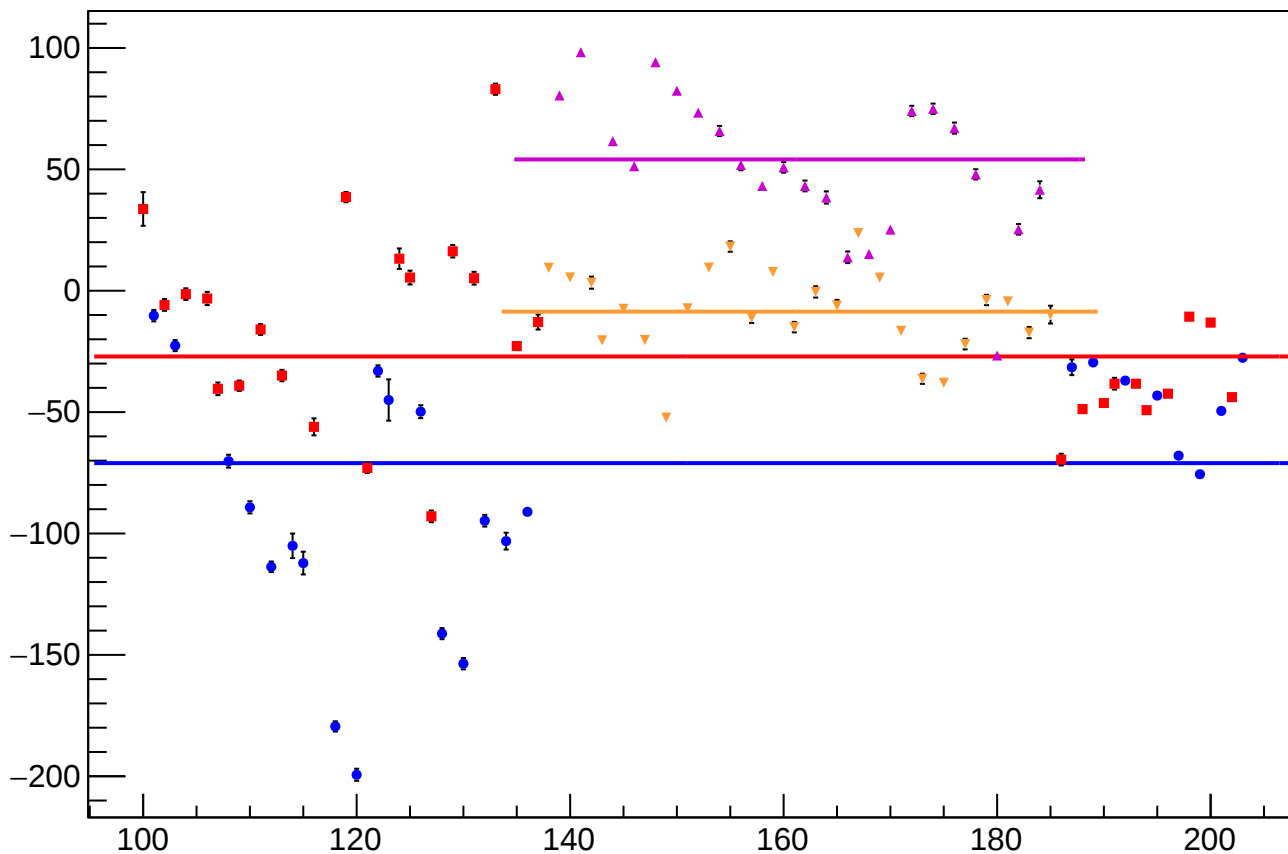
Right: 1358.762 ± 0.191 $\chi^2/\text{NDF}: 1173207.4/53$

In: 1371.257 ± 0.179 $\chi^2/\text{NDF}: 685266.2/47$

Out: 1375.606 ± 0.173 $\chi^2/\text{NDF}: 798642.9/53$

All: 1373.507 ± 0.125 $\chi^2/\text{NDF}: 1484213.6/100$

diff_bpm0i02aX_mean vs Slug, Sign Corrected



Right In: -71.016 ± 0.417 χ^2/NDF : 12510.4/24

Left Out: -8.606 ± 0.410 χ^2/NDF : 1930.5/24

Right Out: -27.076 ± 0.391 χ^2/NDF : 6978.2/28

Left In: 54.089 ± 0.426 χ^2/NDF : 4721.6/22

Left: 21.586 ± 0.295 χ^2/NDF : 17900.0/47

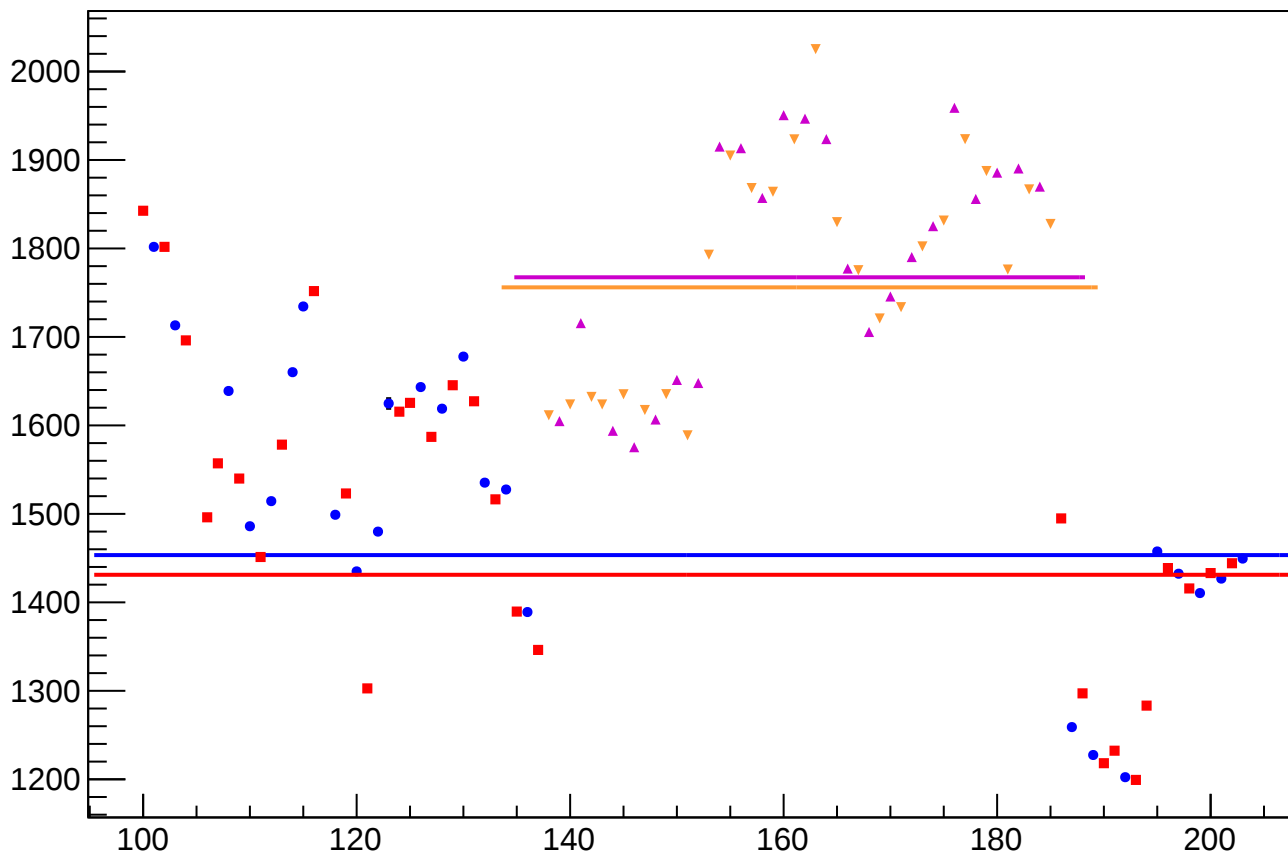
Right: -47.634 ± 0.286 χ^2/NDF : 25385.4/53

In: -9.685 ± 0.298 χ^2/NDF : 61270.7/47

Out: -18.274 ± 0.283 χ^2/NDF : 9969.9/53

All: -14.199 ± 0.205 χ^2/NDF : 71677.1/101

diff_bpm0i02aX_rms vs Slug, Sign Corrected



Right In: 1453.421 $\pm$ 0.295 χ^2 /NDF: 261497.2/24

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

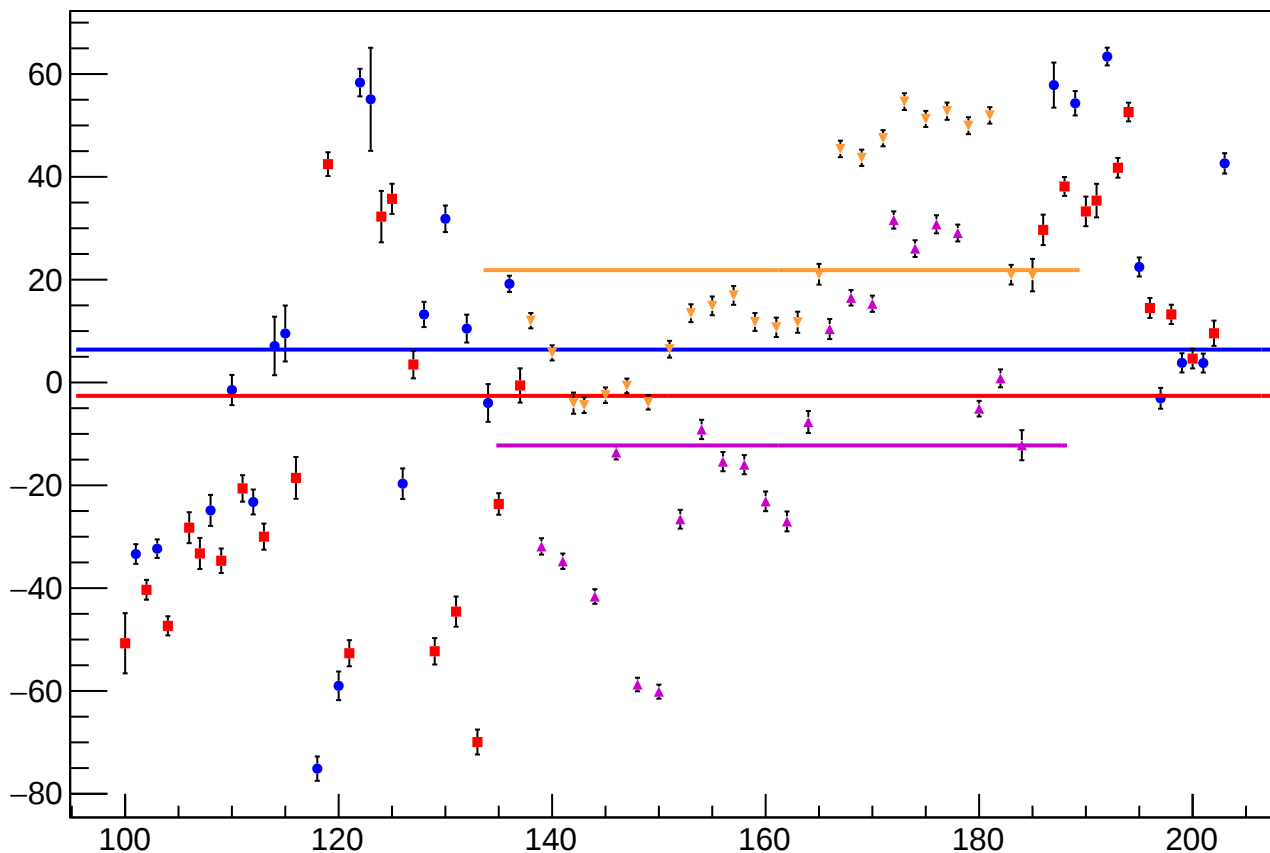
Right: 1441.575 $\pm$ 0.202 χ^2 /NDF: 572334.0/53

In: 1607.350 $\pm$ 0.211 χ^2 /NDF:1004269.8/47

Out: 1585.973 $\pm$ 0.200 χ^2 /NDF:1140197.1/53

All: 1596.116 $\pm$ 0.145 χ^2 /NDF: 2149874.7/10

diff_bpm0i02aY_mean vs Slug, Sign Corrected



Right In: 6.401 ± 0.472 $\chi^2/\text{NDF}: 5626.7/24$

Left Out: 21.856 ± 0.335 $\chi^2/\text{NDF}: 4110.5/24$

Right Out: -2.602 ± 0.450 $\chi^2/\text{NDF}: 6548.5/28$

Left In: -12.246 ± 0.347 $\chi^2/\text{NDF}: 6781.6/22$

Left: 5.391 ± 0.241 $\chi^2/\text{NDF}: 15885.7/47$

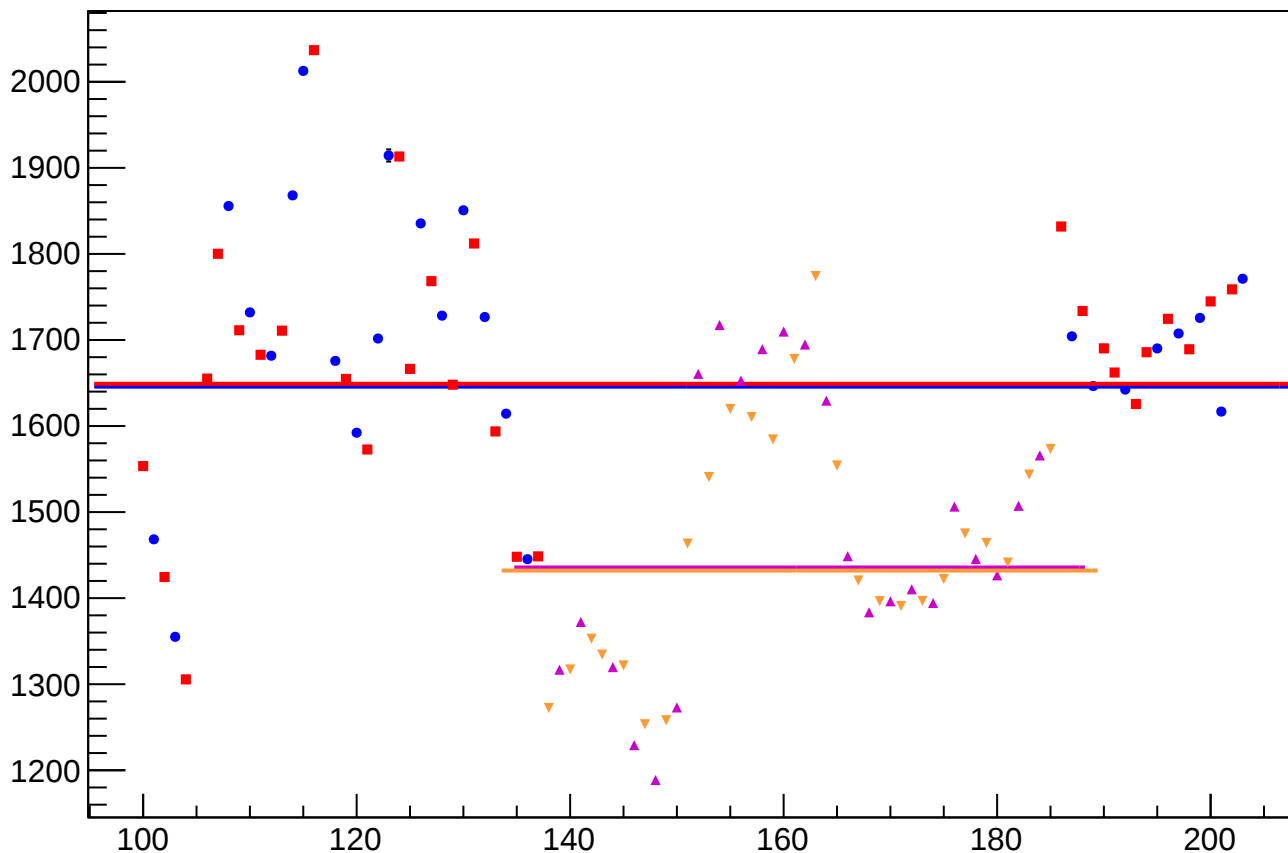
Right: 1.685 ± 0.326 $\chi^2/\text{NDF}: 12365.4/53$

In: -5.709 ± 0.280 $\chi^2/\text{NDF}: 13420.3/47$

Out: 13.134 ± 0.269 $\chi^2/\text{NDF}: 12556.2/53$

All: 4.080 ± 0.194 $\chi^2/\text{NDF}: 28334.6/101$

diff_bpm0i02aY_rms vs Slug, Sign Corrected



Right In: 1645.787 $\pm$ 0.334 χ^2 /NDF: 169417.0/24

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

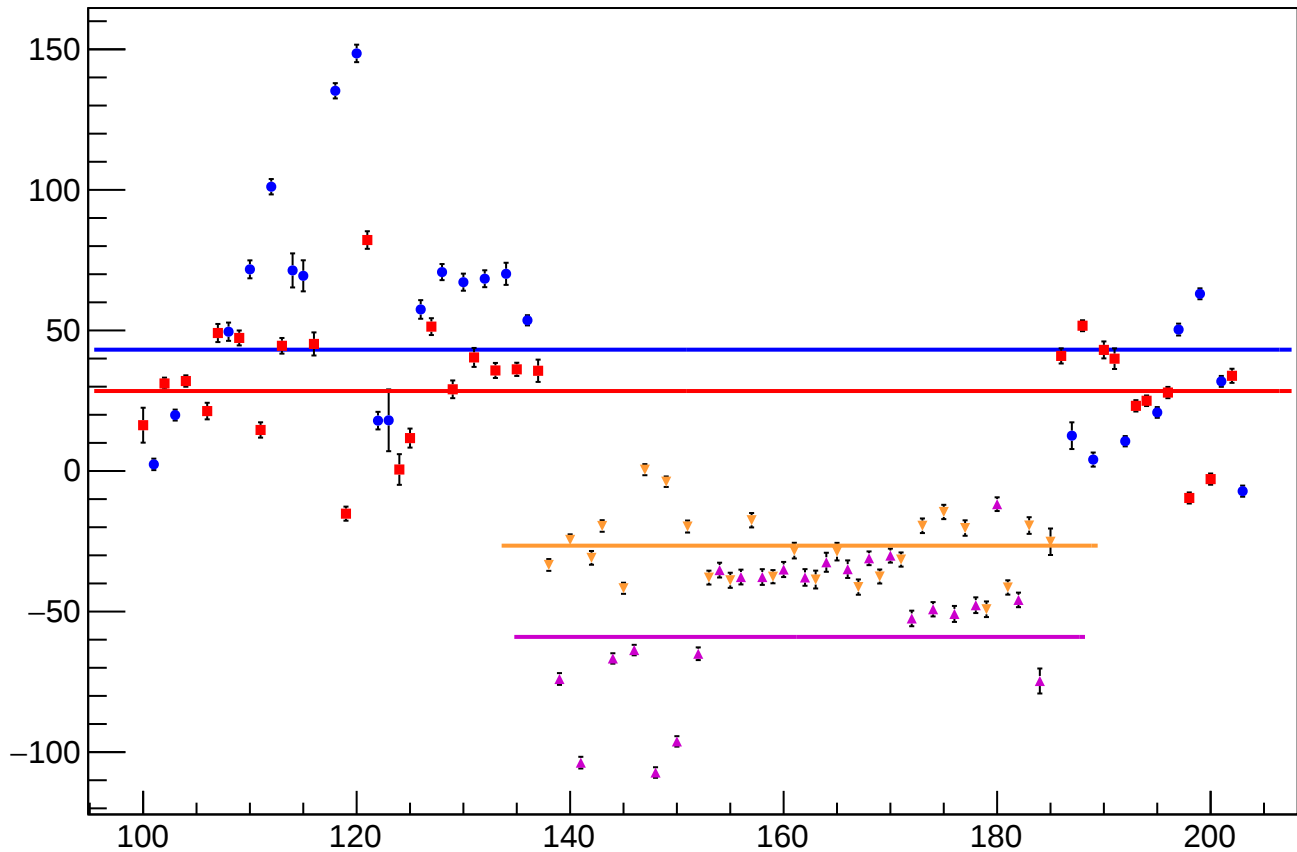
Right: 1647.530 $\pm$ 0.230 χ^2 /NDF: 362114.7/53

In: 1509.312 $\pm$ 0.198 χ^2 /NDF: 847304.2/47

Out: 1509.463 $\pm$ 0.190 χ^2 /NDF: 788849.3/53

All: 1509.390 $\pm$ 0.137 χ^2 /NDF: 1636153.8/100

diff_bpm0i05X_mean vs Slug, Sign Corrected



Right In: 43.160 ± 0.511 $\chi^2/\text{NDF}: 5342.5/24$

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 $\chi^2/\text{NDF}: 5632.2/47$

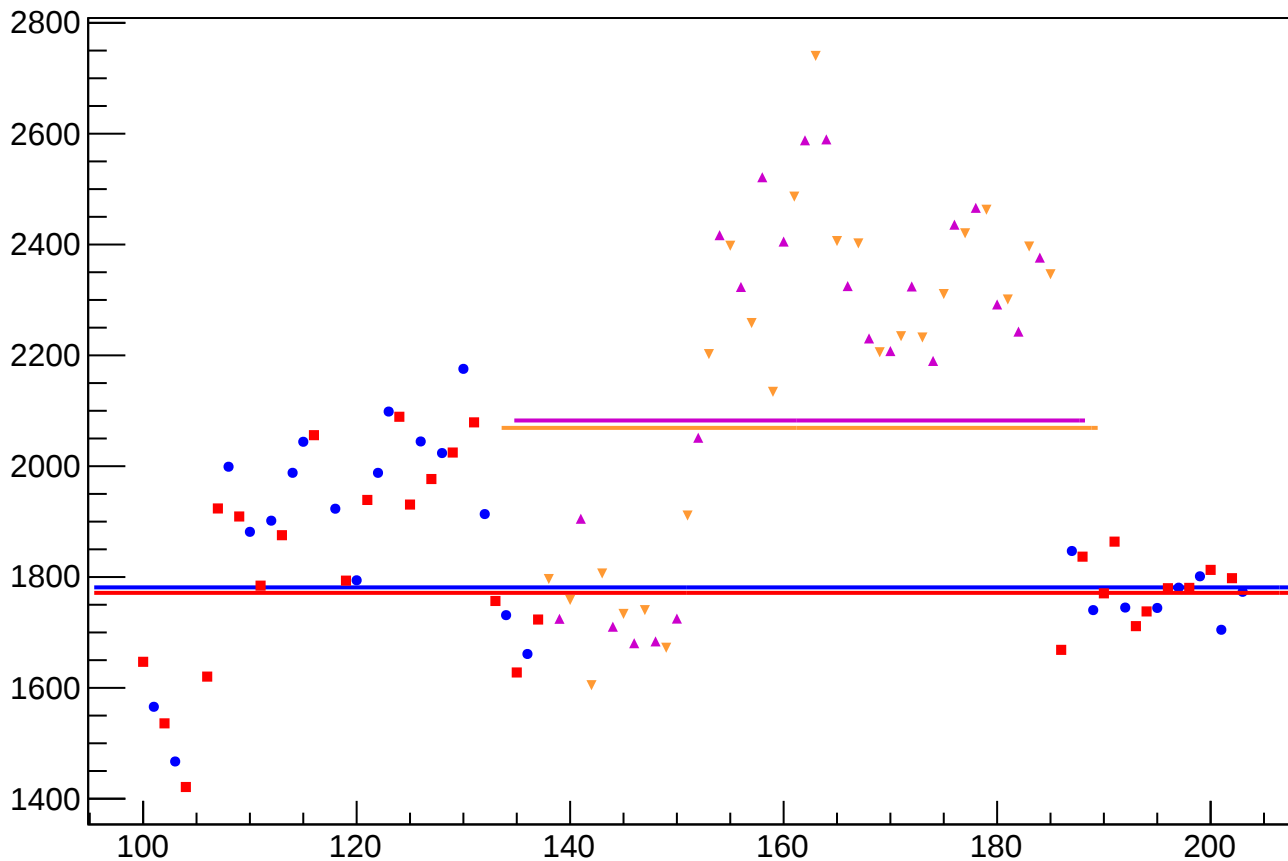
Right: 35.395 ± 0.351 $\chi^2/\text{NDF}: 7535.2/53$

In: -8.414 ± 0.360 $\chi^2/\text{NDF}: 28285.0/47$

Out: 1.190 ± 0.343 $\chi^2/\text{NDF}: 8884.8/53$

All: -3.389 ± 0.248 $\chi^2/\text{NDF}: 37542.6/101$

diff_bpm0i05X_rms vs Slug, Sign Corrected



Right In: 1781.348 $\pm$ 0.362 χ^2 /NDF: 191113.5/24

Left Out: 2069.146 $\pm$ 0.345 χ^2 /NDF: 799037.9/24

Right Out: 1771.458 $\pm$ 0.342 χ^2 /NDF: 187835.5/28

Left In: 2082.497 $\pm$ 0.358 χ^2 /NDF: 785304.0/22

Left: 2075.572 $\pm$ 0.248 χ^2 /NDF: 1585062.9/47

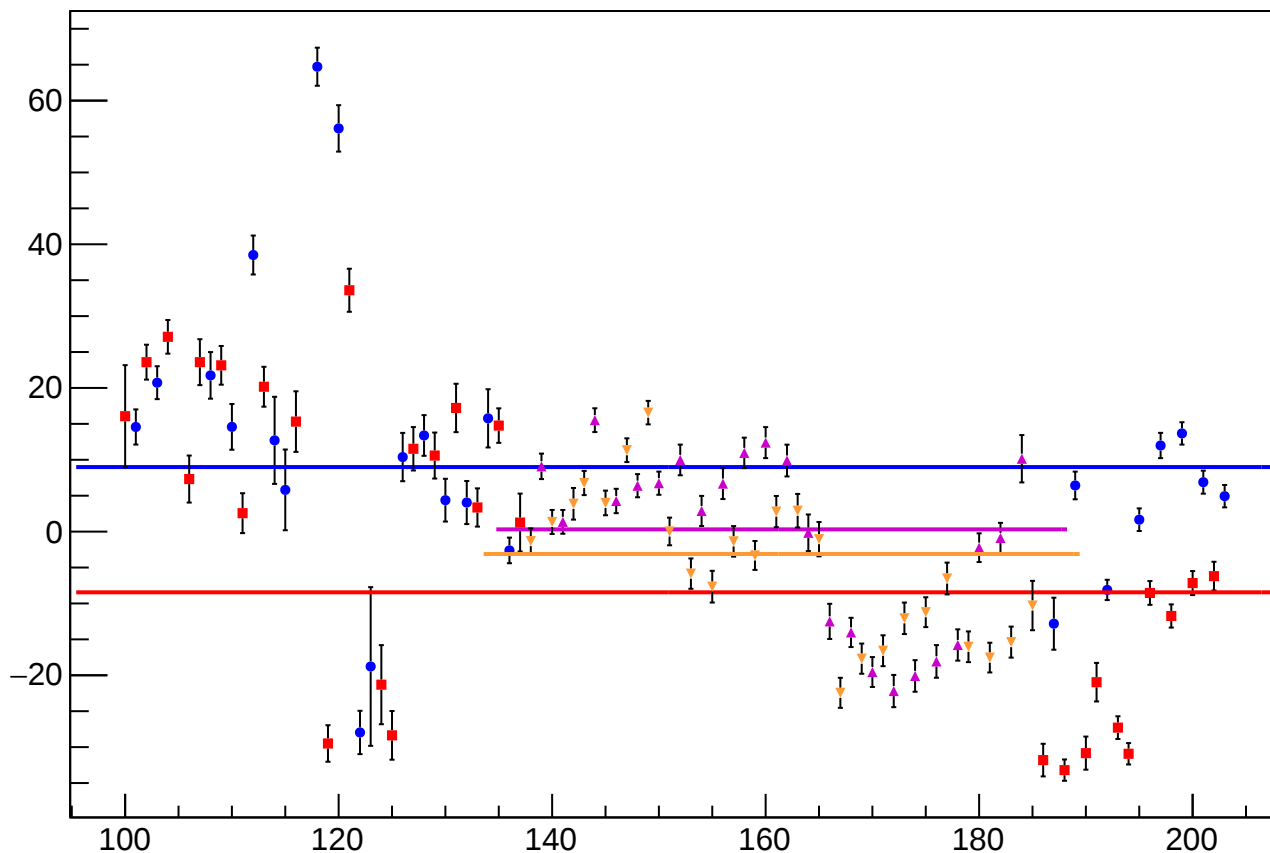
Right: 1776.128 $\pm$ 0.248 χ^2 /NDF: 379343.9/53

In: 1933.359 $\pm$ 0.254 χ^2 /NDF: 1326664.4/47

Out: 1918.990 $\pm$ 0.243 χ^2 /NDF: 1362486.4/53

All: 1925.841 $\pm$ 0.176 χ^2 /NDF: 2690820.0/100

diff_bpm0i05Y_mean vs Slug, Sign Corrected



Right In: 8.986 $\pm$ 0.461 χ^2/NDF : 1259.7/24

Left Out: -3.112 $\pm$ 0.404 χ^2/NDF :643.7/24

Right Out: -8.450 $\pm$ 0.436 χ^2/NDF : 2269.5/28

Left In: 0.312 $\pm$ 0.421 χ^2/NDF :736.5/22

Left: -1.470 $\pm$ 0.292 χ^2/NDF : 1414.7/47

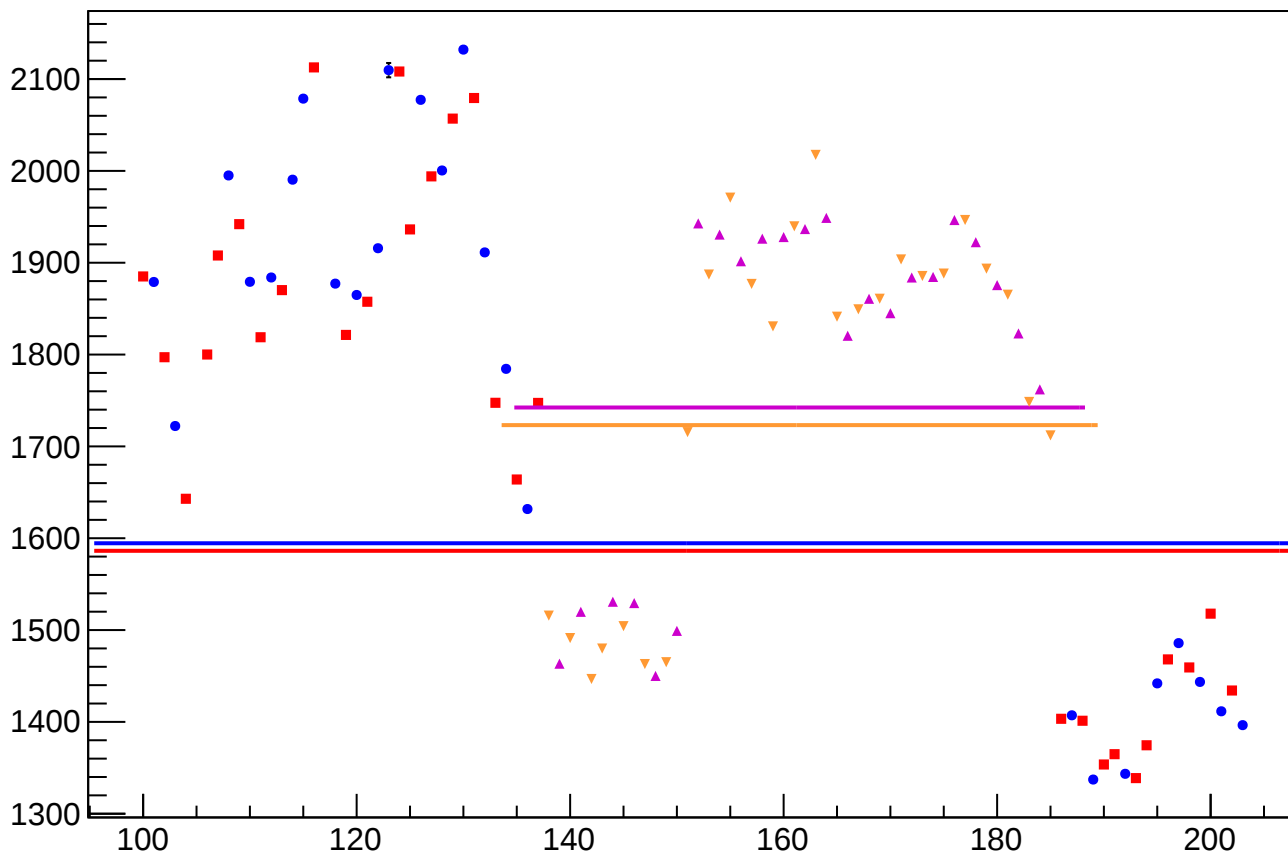
Right: -0.219 $\pm$ 0.317 χ^2/NDF : 4283.9/53

In: 4.256 $\pm$ 0.311 χ^2/NDF :2189.1/47

Out: -5.579 $\pm$ 0.296 χ^2/NDF :2993.9/53

All: -0.896 $\pm$ 0.215 χ^2/NDF : 5707.0/101

diff_bpm0i05Y_rms vs Slug, Sign Corrected



Right In: 1594.524+/-0.326 χ^2/NDF : 572570.3/24

Left Out: 1723.168+/-0.286 χ^2/NDF : 477441.1/24

Right Out: 1586.305+/-0.308 χ^2/NDF : 562580.5/28

Left In: 1742.354+/-0.298 χ^2/NDF : 435841.5/22

Left: 1732.370+/-0.206 χ^2/NDF : 915443.3/47

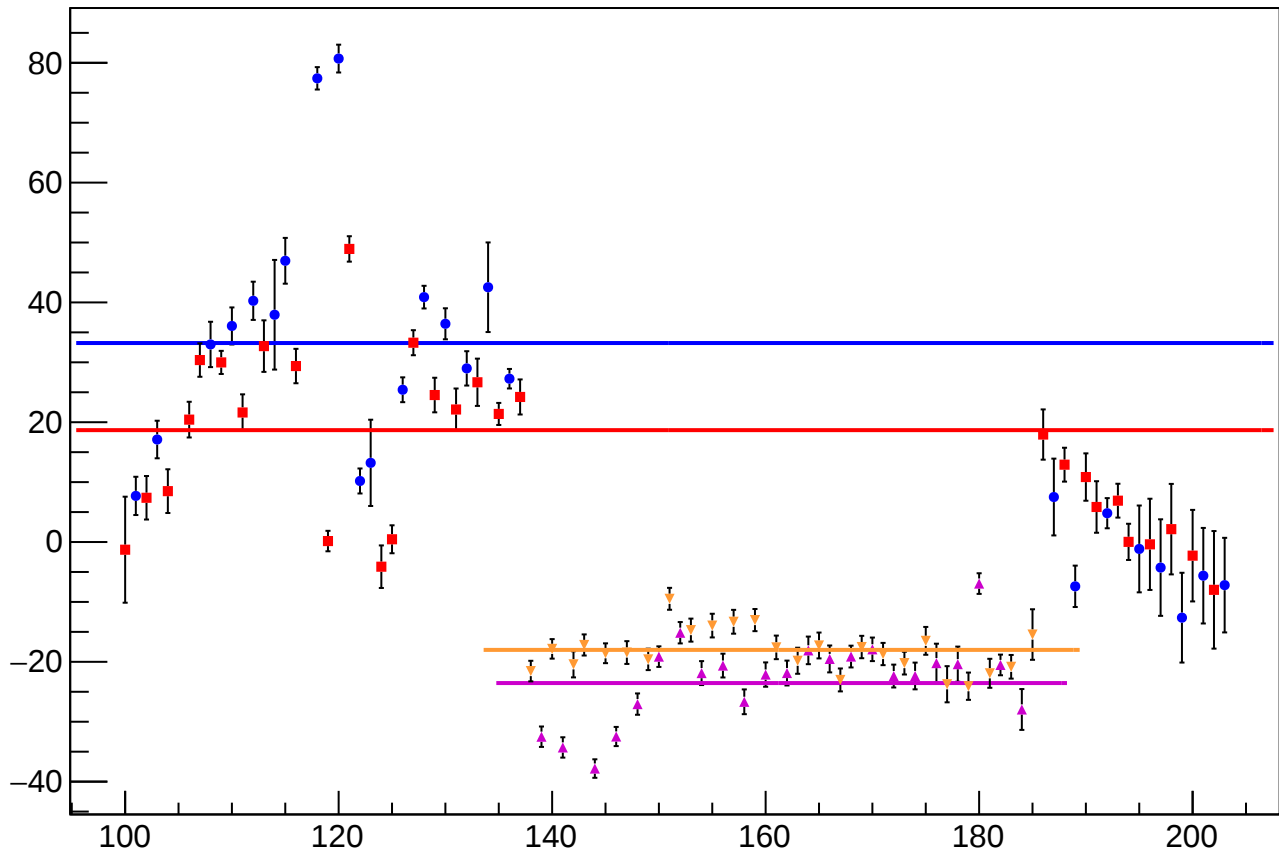
Right: 1590.185+/-0.224 χ^2/NDF : 1135486.1/53

In: 1675.138+/-0.220 χ^2/NDF : 1120493.3/47

Out: 1659.916+/-0.210 χ^2/NDF : 1145975.4/53

All: 1667.164+/-0.152 χ^2/NDF : 2268979.6/100

diff_bpm0i07X_mean vs Slug, Sign Corrected



Right In: 33.220 ± 0.598 $\chi^2/\text{NDF}: 1677.7/24$

Left Out: -18.007 ± 0.397 $\chi^2/\text{NDF}: 73.8/24$

Right Out: 18.677 ± 0.551 $\chi^2/\text{NDF}: 685.3/28$

Left In: -23.544 ± 0.406 $\chi^2/\text{NDF}: 346.7/22$

Left: -20.714 ± 0.284 $\chi^2/\text{NDF}: 515.7/47$

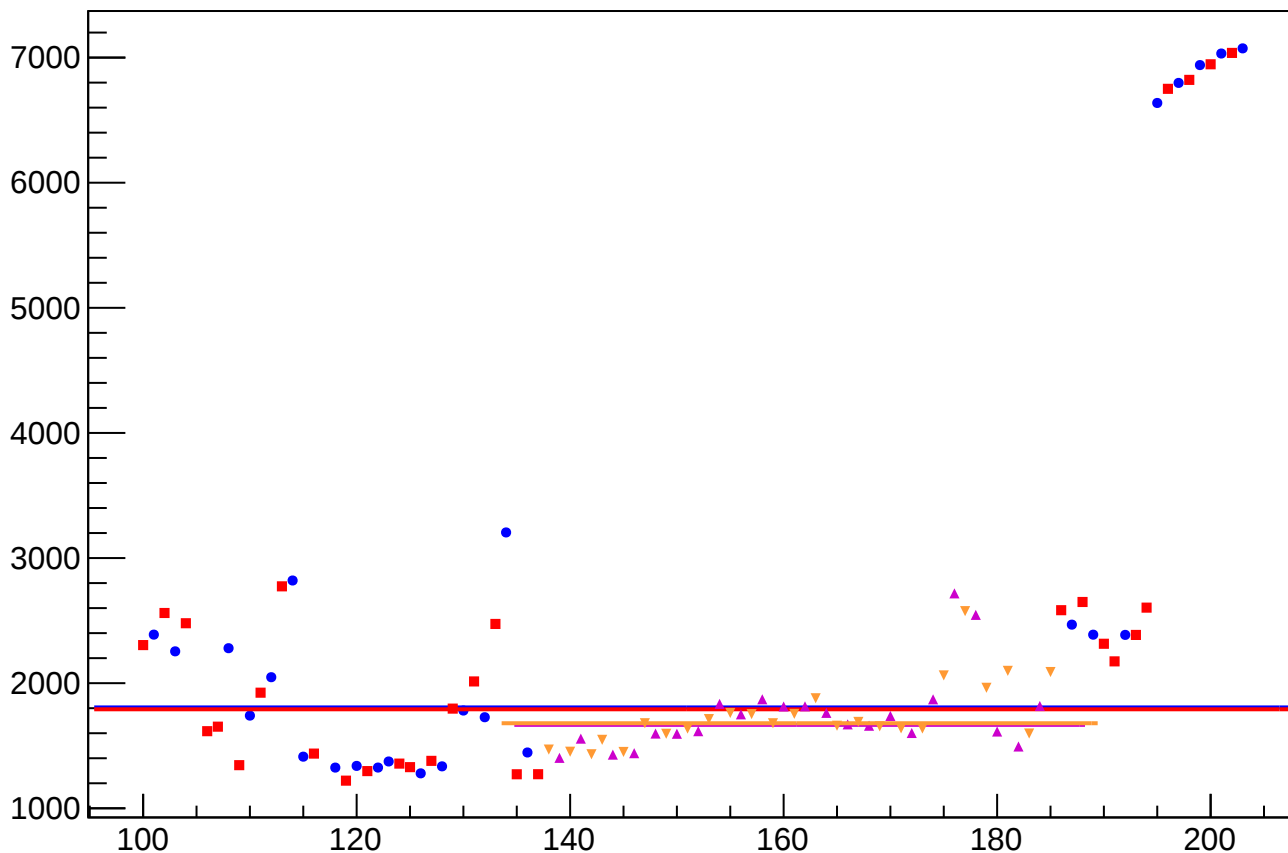
Right: 25.366 ± 0.405 $\chi^2/\text{NDF}: 2682.8/53$

In: -5.636 ± 0.336 $\chi^2/\text{NDF}: 8201.9/47$

Out: -5.498 ± 0.322 $\chi^2/\text{NDF}: 3675.4/53$

All: -5.564 ± 0.232 $\chi^2/\text{NDF}: 11877.3/101$

diff_bpm0i07X_rms vs Slug, Sign Corrected



Right In: 1806.133+/-0.423 χ^2/NDF : 5473587.6/24

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

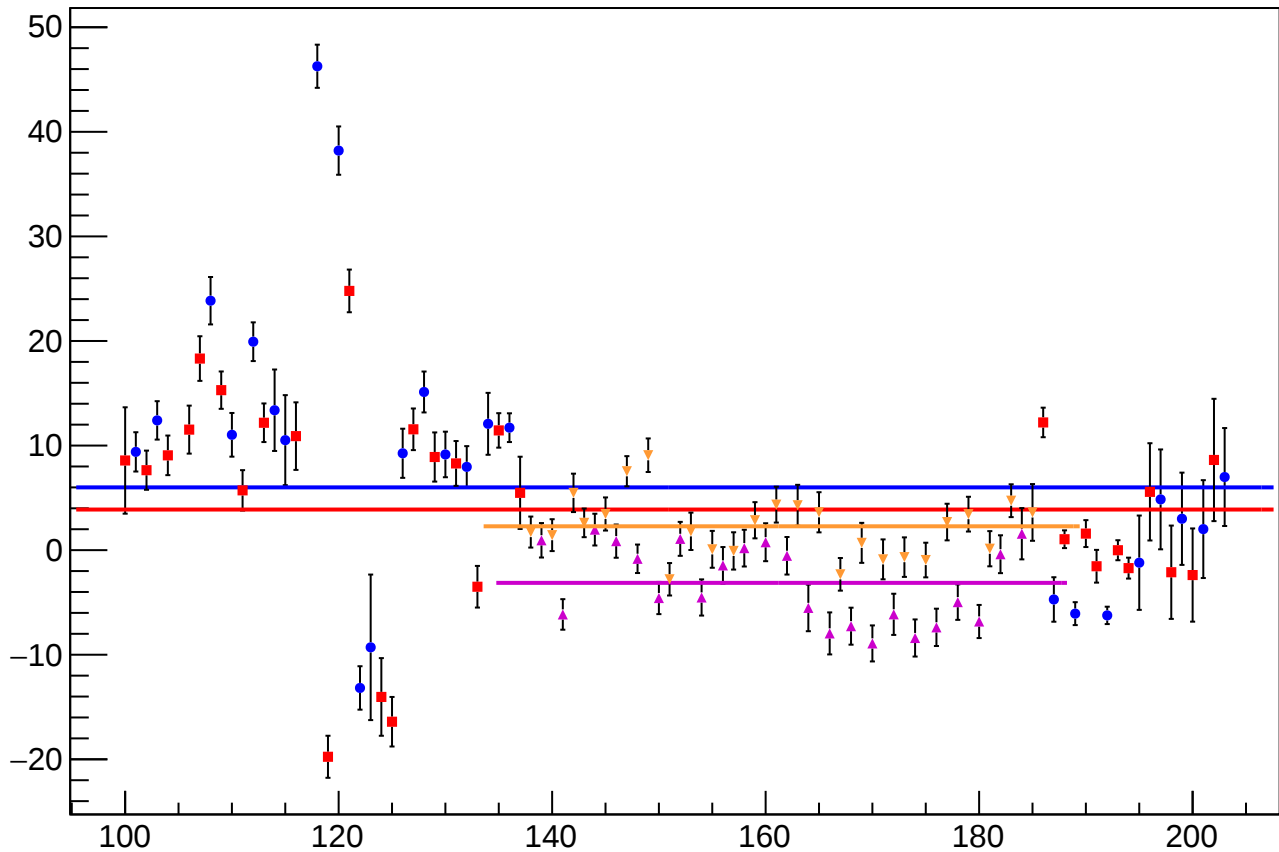
Right: 1798.104+/-0.287 χ^2/NDF : 10463335.7/53

In: 1710.770+/-0.237 χ^2/NDF : 6198996.5/47

Out: 1717.820+/-0.228 χ^2/NDF : 5565709.6/53

All: 1714.441+/-0.164 χ^2/NDF : 11765165.6/100

diff_bpm0i07Y_mean vs Slug, Sign Corrected



Right In: 6.002 $\pm$ 0.396 χ^2/NDF : 1225.9/24

Left Out: 2.280 $\pm$ 0.338 χ^2/NDF : 75.6/24

Right Out: 3.883 $\pm$ 0.329 χ^2/NDF : 648.1/28

Left In: -3.129 $\pm$ 0.358 χ^2/NDF : 103.4/22

Left: -0.274 $\pm$ 0.246 χ^2/NDF : 299.7/47

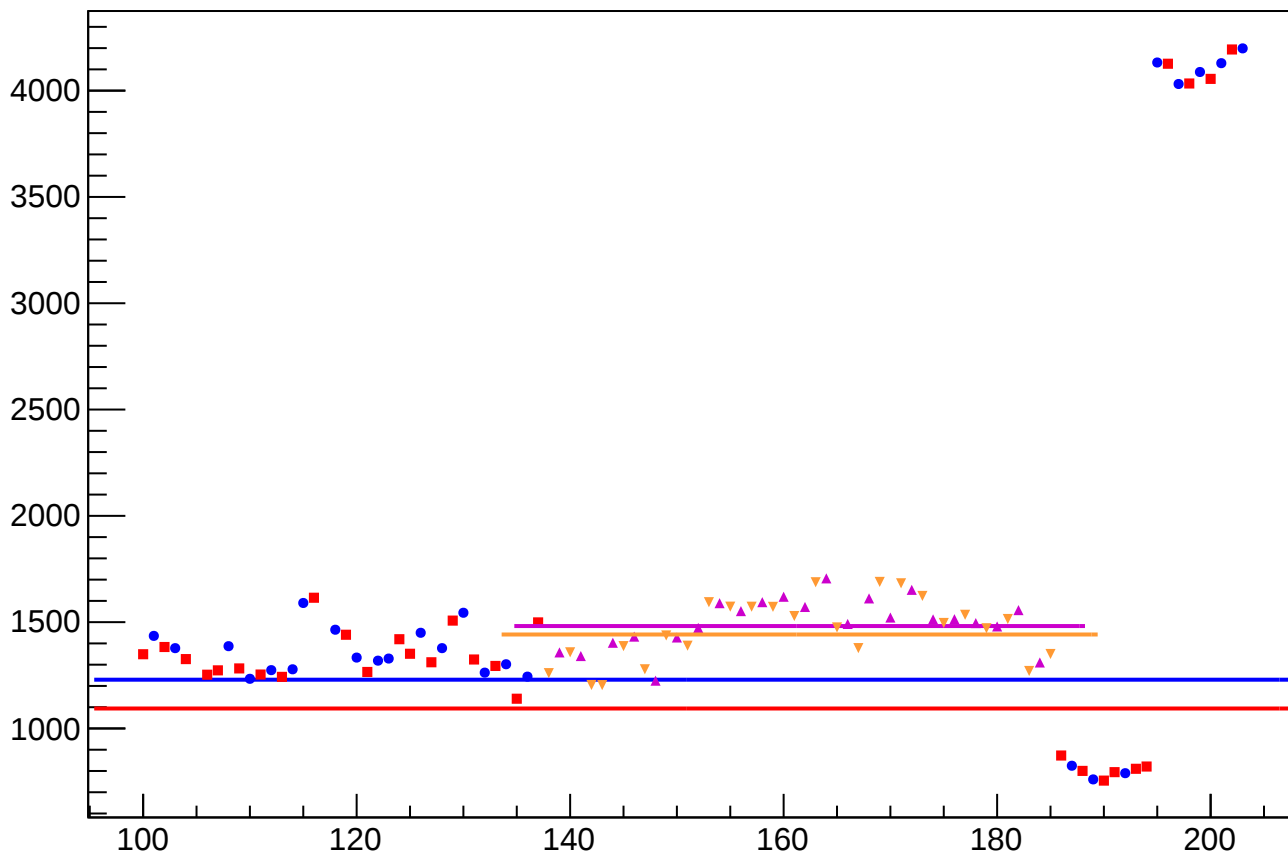
Right: 4.748 $\pm$ 0.253 χ^2/NDF : 1890.9/53

In: 0.974 $\pm$ 0.265 χ^2/NDF : 1622.1/47

Out: 3.104 $\pm$ 0.236 χ^2/NDF : 735.2/53

All: 2.164 $\pm$ 0.176 χ^2/NDF : 2393.3/101

diff_bpm0i07Y_rms vs Slug, Sign Corrected



Right In: 1229.344 ± 0.280 $\chi^2/\text{NDF}: 5097589.2/24$

Left Out: 1441.951 ± 0.239 $\chi^2/\text{NDF}: 370617.4/24$

Right Out: 1093.872 ± 0.233 $\chi^2/\text{NDF}: 4467154.6/28$

Left In: 1481.695 ± 0.253 $\chi^2/\text{NDF}: 208470.6/22$

Left: 1460.716 ± 0.174 $\chi^2/\text{NDF}: 592125.7/47$

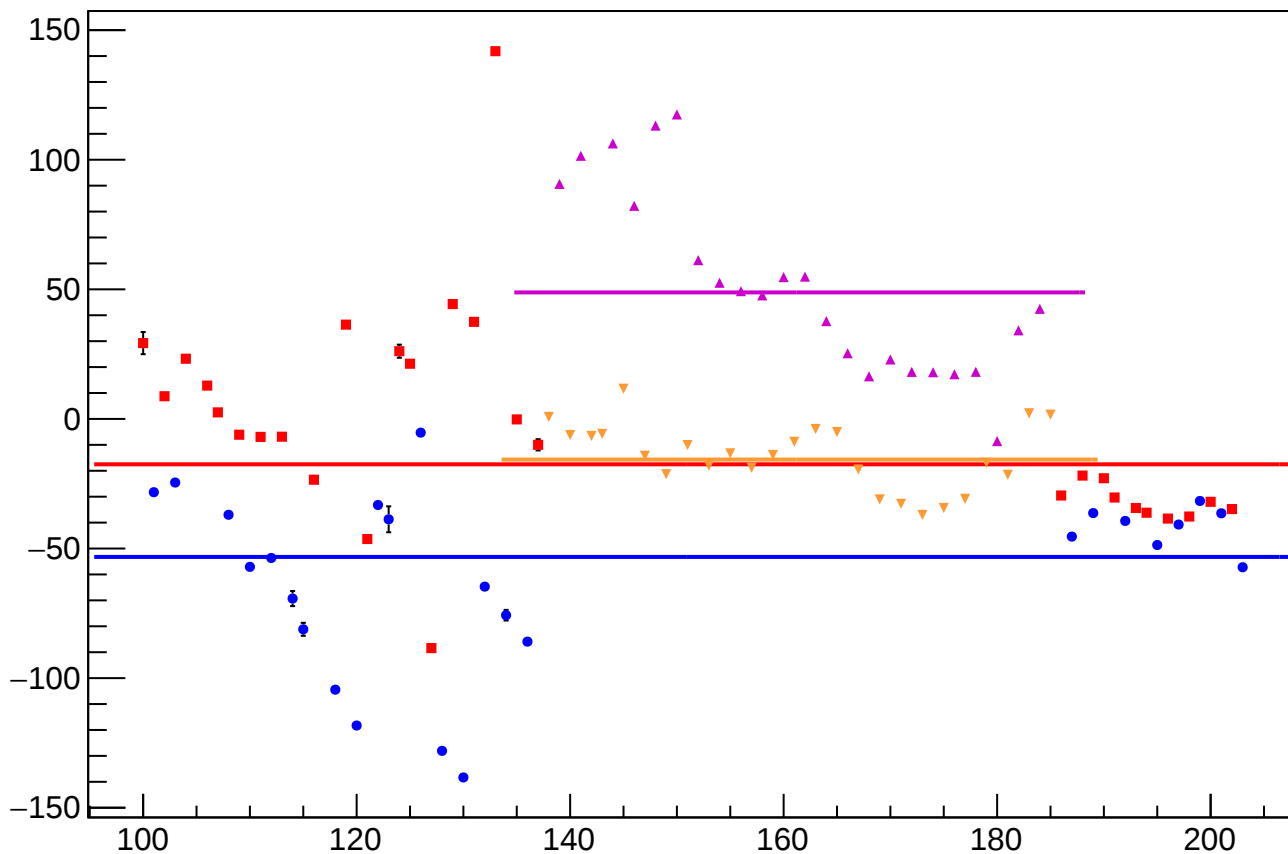
Right: 1149.183 ± 0.179 $\chi^2/\text{NDF}: 9703311.8/53$

In: 1368.302 ± 0.188 $\chi^2/\text{NDF}: 5753502.1/47$

Out: 1263.017 ± 0.167 $\chi^2/\text{NDF}: 5926554.7/53$

All: 1309.463 ± 0.125 $\chi^2/\text{NDF}: 11855972.6/100$

diff_bpm1i02X_mean vs Slug, Sign Corrected



Right In: -53.241 ± 0.219 $\chi^2/\text{NDF}: 17013.3/24$

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 $\chi^2/\text{NDF}: 73443.2/47$

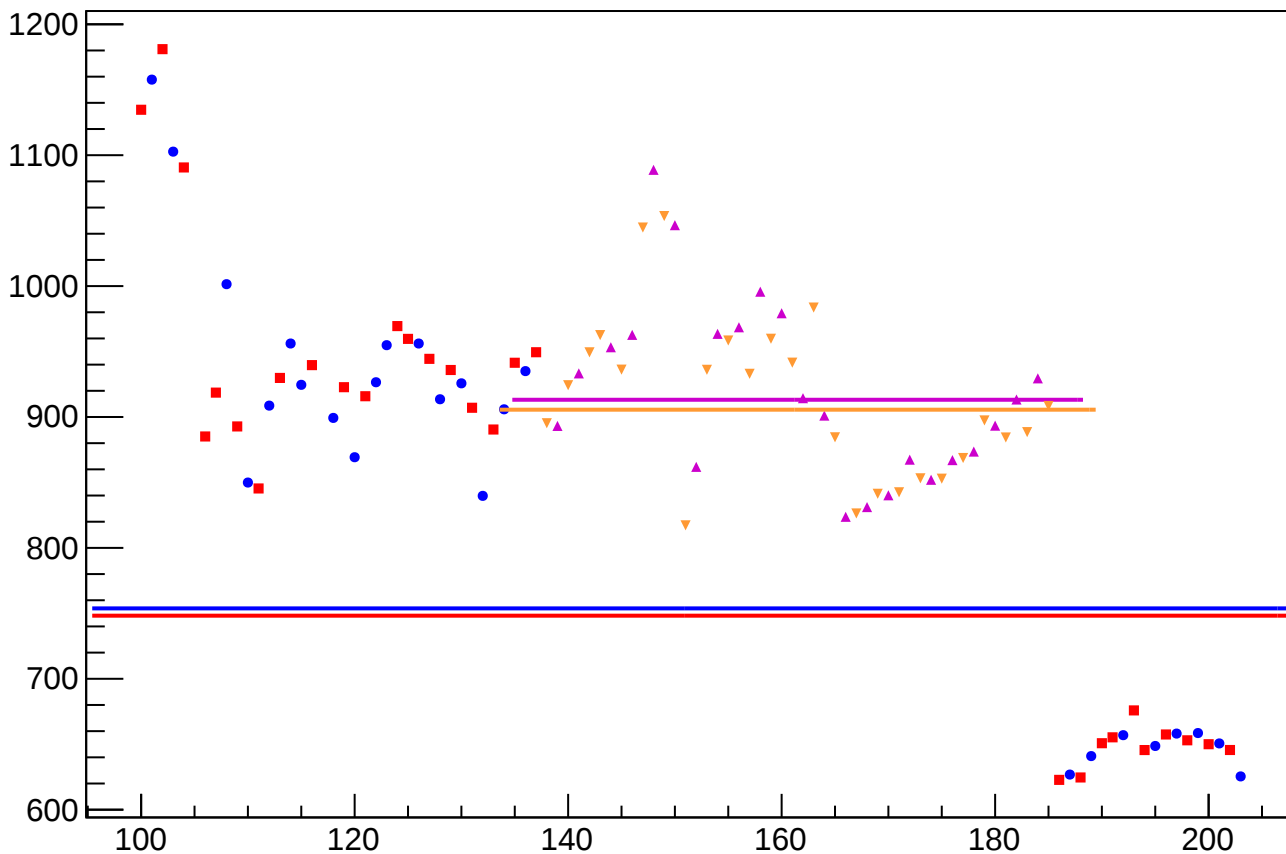
Right: -34.356 ± 0.151 $\chi^2/\text{NDF}: 59318.1/53$

In: -2.315 ± 0.155 $\chi^2/\text{NDF}: 150201.9/47$

Out: -16.607 ± 0.148 $\chi^2/\text{NDF}: 31848.9/53$

All: -9.804 ± 0.107 $\chi^2/\text{NDF}: 186487.7/101$

diff_bpm1i02X_rms vs Slug, Sign Corrected



Right In: 753.784 $\pm$ 0.155 χ^2 /NDF: 909473.9/24

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

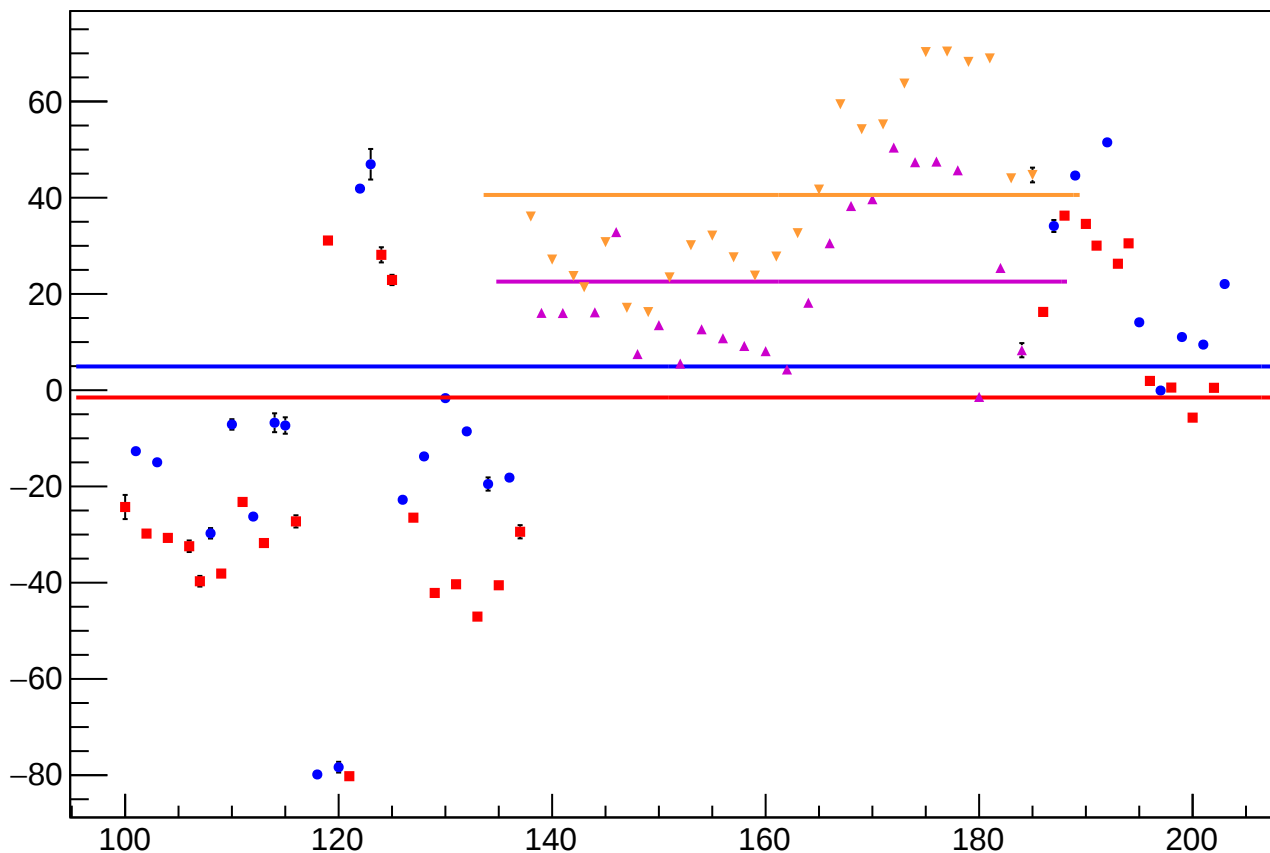
Right: 750.842 $\pm$ 0.107 χ^2 /NDF: 1901816.9/53

In: 833.318 $\pm$ 0.110 χ^2 /NDF:1610390.0/47

Out: 825.297 $\pm$ 0.105 χ^2 /NDF:1718497.1/53

All: 829.115 $\pm$ 0.076 χ^2 /NDF: 3331681.8/103

diff_bpm1i02Y_mean vs Slug, Sign Corrected



Right In: 4.932 $\pm$ 0.158 χ^2 /NDF: 36586.0/24

Left Out: 40.573 $\pm$ 0.168 χ^2 /NDF:12079.0/24

Right Out: -1.515 $\pm$ 0.149 χ^2 /NDF: 40994.5/28

Left In: 22.565 $\pm$ 0.175 χ^2 /NDF:8167.7/22

Left: 31.959 $\pm$ 0.121 χ^2 /NDF: 25752.7/47

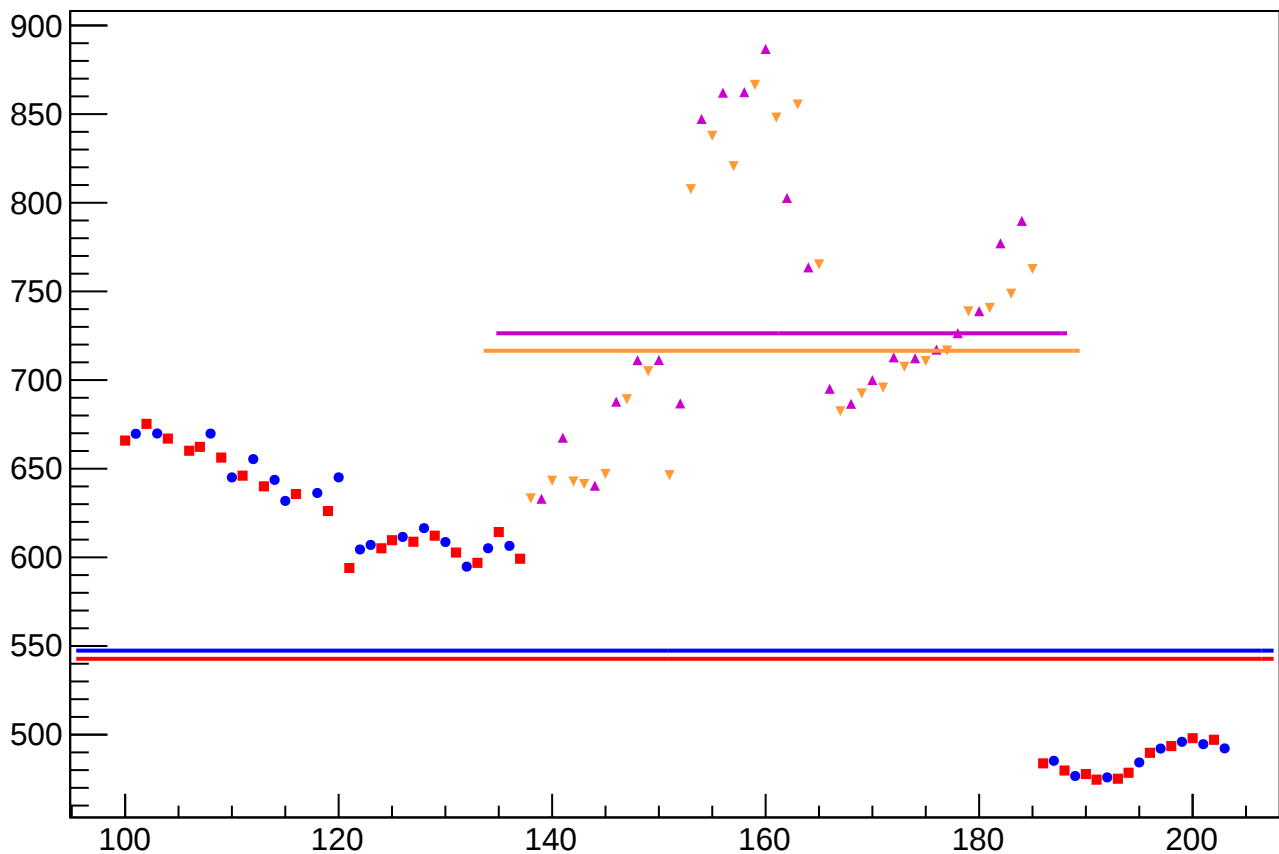
Right: 1.523 $\pm$ 0.108 χ^2 /NDF: 78464.1/53

In: 12.820 $\pm$ 0.117 χ^2 /NDF:50346.7/47

Out: 17.014 $\pm$ 0.111 χ^2 /NDF:88271.3/53

All: 15.025 $\pm$ 0.081 χ^2 /NDF: 139290.7/101

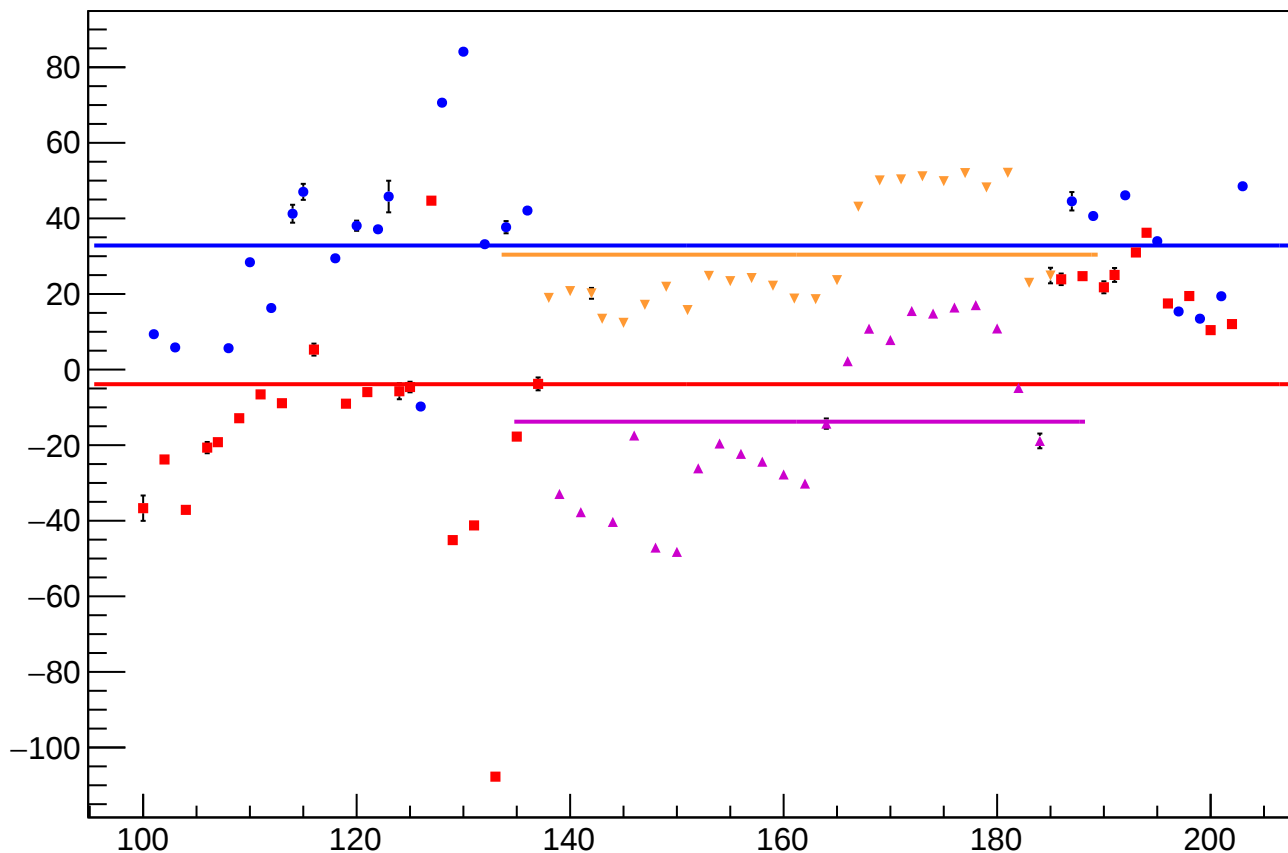
diff_bpm1i02Y_rms vs Slug, Sign Corrected



Right In: 547.399 $\pm$ 0.112 χ^2 /NDF: 423311.2/24
 Left Out: 716.515 $\pm$ 0.119 χ^2 /NDF:342740.2/24
 Right Out: 542.781 $\pm$ 0.105 χ^2 /NDF: 477727.5/28
 Left In: 726.390 $\pm$ 0.124 χ^2 /NDF:289788.8/22

Left: 721.238 $\pm$ 0.086 χ^2 /NDF: 635840.6/47
 Right: 544.957 $\pm$ 0.077 χ^2 /NDF: 901945.4/53
 In: 627.471 $\pm$ 0.083 χ^2 /NDF:1865663.8/47
 Out: 619.267 $\pm$ 0.079 χ^2 /NDF:2019992.7/53
 All: 623.158 $\pm$ 0.057 χ^2 /NDF: 3890805.7/103

diff_bpm1i04X_mean vs Slug, Sign Corrected



Right In: 32.834 ± 0.240 $\chi^2/\text{NDF}: 7670.5/24$

Left Out: 30.408 ± 0.237 $\chi^2/\text{NDF}: 3808.0/24$

Right Out: -3.868 ± 0.230 $\chi^2/\text{NDF}: 19942.6/28$

Left In: -13.787 ± 0.246 $\chi^2/\text{NDF}: 7979.7/22$

Left: 9.082 ± 0.171 $\chi^2/\text{NDF}: 28511.9/47$

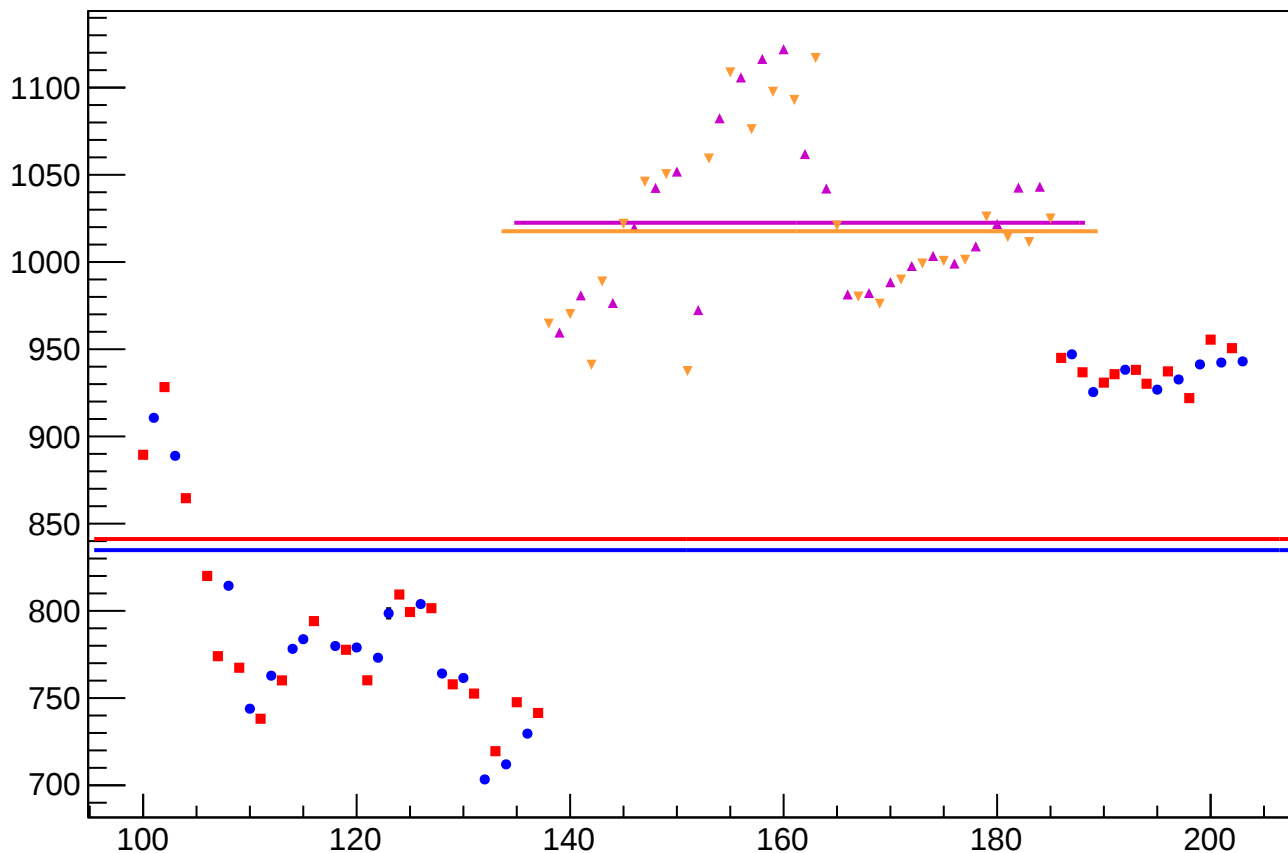
Right: 13.705 ± 0.166 $\chi^2/\text{NDF}: 39820.7/53$

In: 10.101 ± 0.172 $\chi^2/\text{NDF}: 34078.5/47$

Out: 12.717 ± 0.165 $\chi^2/\text{NDF}: 34510.5/53$

All: 11.460 ± 0.119 $\chi^2/\text{NDF}: 68709.6/101$

diff_bpm1i04X_rms vs Slug, Sign Corrected



Right In: 834.817 ± 0.170 $\chi^2/\text{NDF}: 273075.6/24$

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 $\chi^2/\text{NDF}: 153652.2/47$

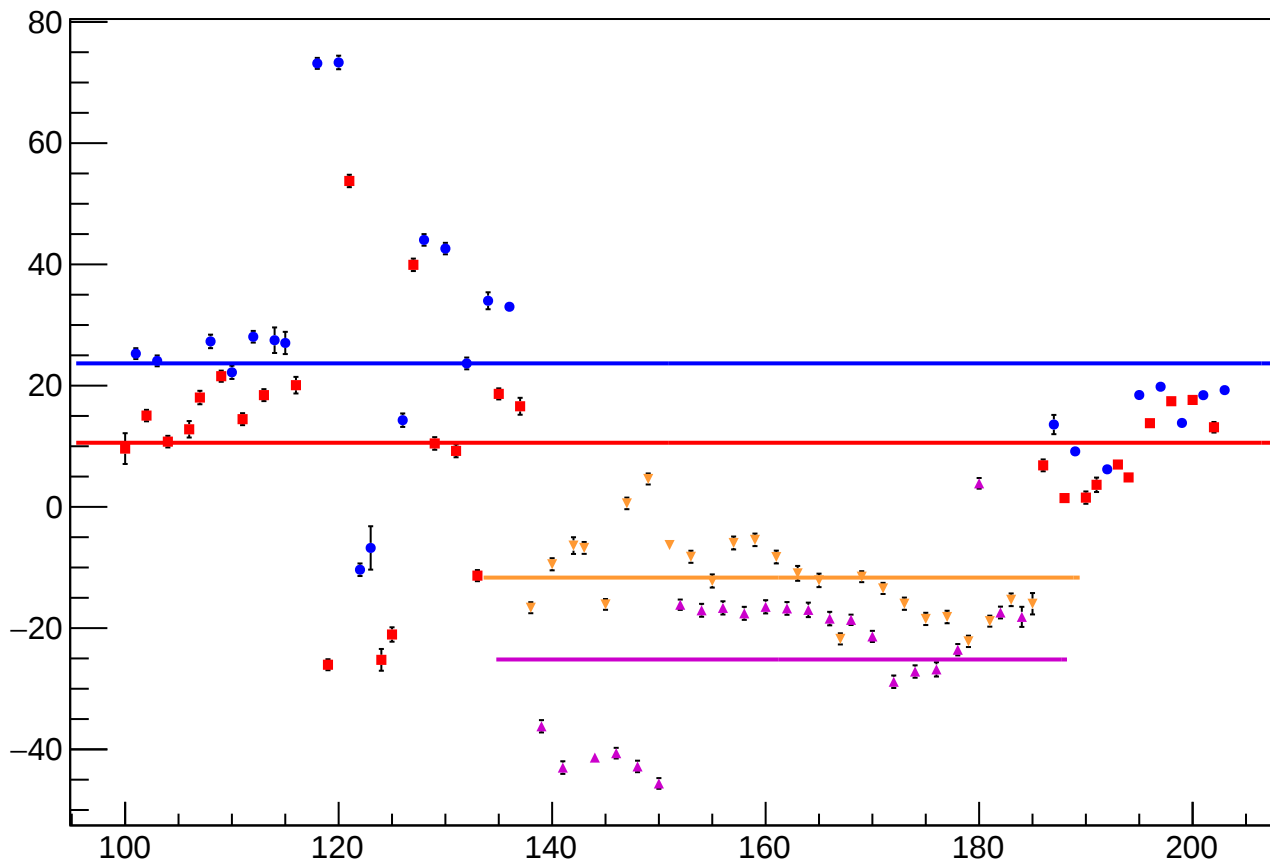
Right: 838.133 ± 0.117 $\chi^2/\text{NDF}: 552967.4/53$

In: 926.339 ± 0.121 $\chi^2/\text{NDF}: 940116.1/47$

Out: 926.569 ± 0.117 $\chi^2/\text{NDF}: 933188.5/53$

All: 926.458 ± 0.084 $\chi^2/\text{NDF}: 1873306.5/102$

diff_bpm1i04Y_mean vs Slug, Sign Corrected



Right In: 23.672 ± 0.177 χ^2/NDF : 8892.9/24

Left Out: -11.664 ± 0.200 χ^2/NDF : 1147.4/24

Right Out: 10.578 ± 0.172 χ^2/NDF : 7014.9/28

Left In: -25.174 ± 0.207 χ^2/NDF : 3747.1/22

Left: -18.184 ± 0.144 χ^2/NDF : 7090.4/47

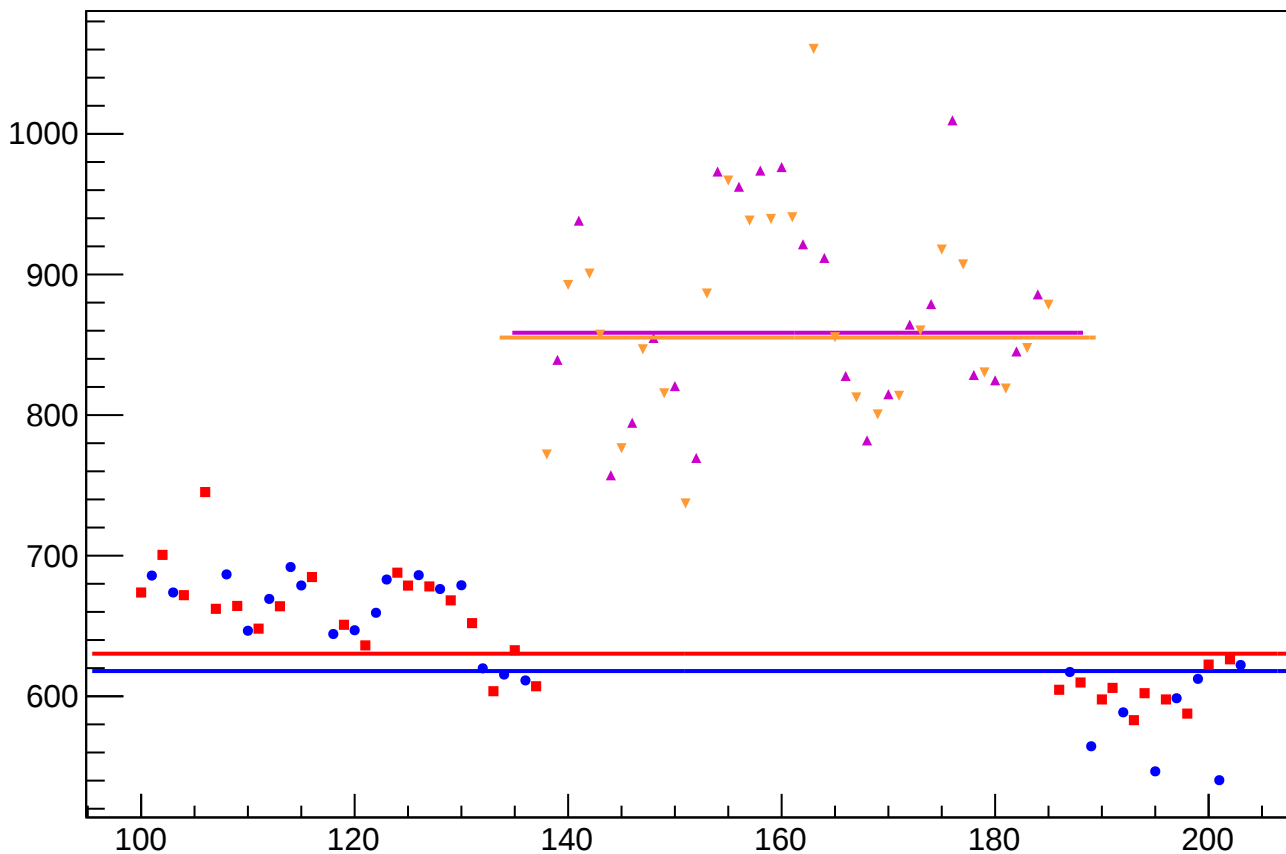
Right: 16.913 ± 0.123 χ^2/NDF : 18719.1/53

In: 3.026 ± 0.135 χ^2/NDF : 44670.7/47

Out: 1.152 ± 0.130 χ^2/NDF : 15268.2/53

All: 2.058 ± 0.094 χ^2/NDF : 60038.7/101

diff_bpm1i04Y_rms vs Slug, Sign Corrected



Right In: 617.925 ± 0.125 $\chi^2/\text{NDF}: 142934.2/24$

Left Out: 855.131 ± 0.142 $\chi^2/\text{NDF}: 233746.7/24$

Right Out: 630.282 ± 0.121 $\chi^2/\text{NDF}: 89675.0/28$

Left In: 858.563 ± 0.147 $\chi^2/\text{NDF}: 239019.8/22$

Left: 856.788 ± 0.102 $\chi^2/\text{NDF}: 473049.9/47$

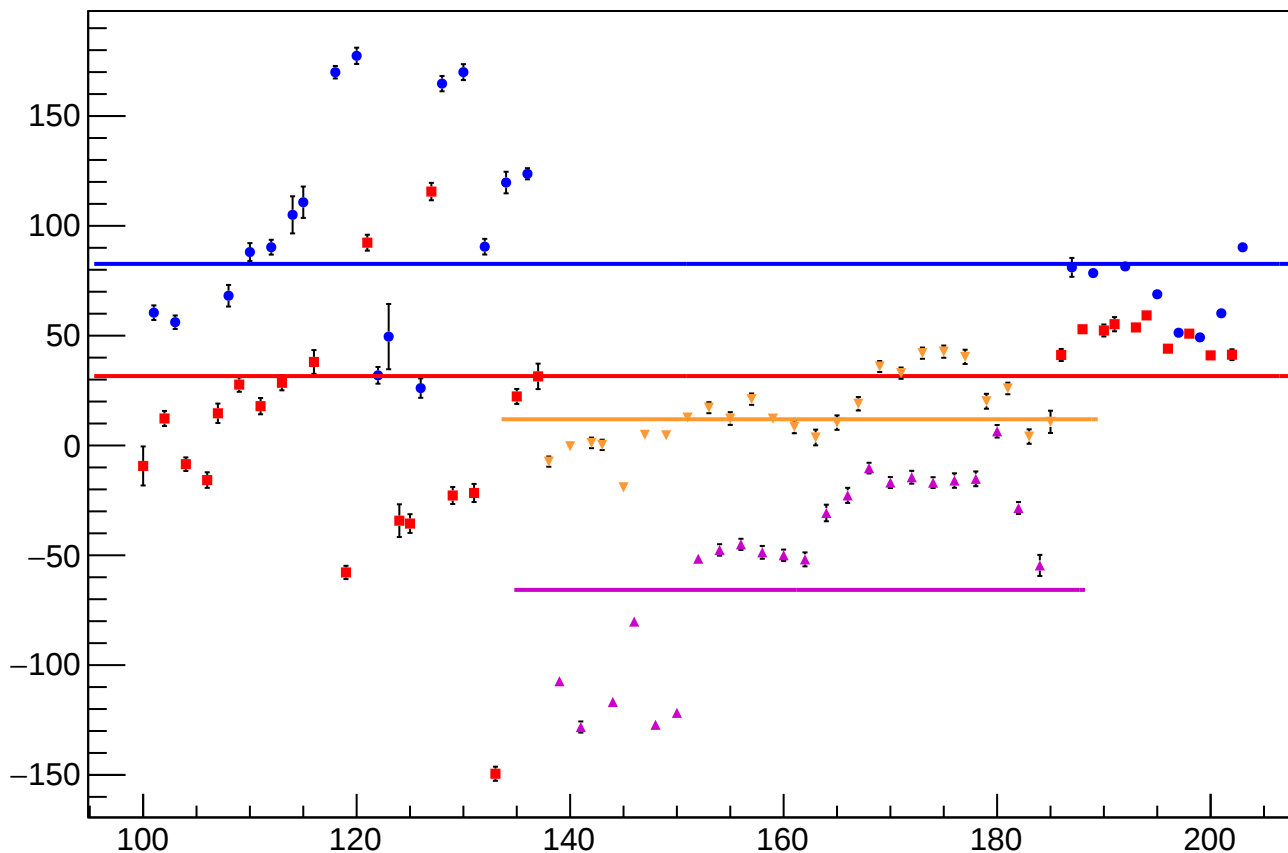
Right: 624.304 ± 0.087 $\chi^2/\text{NDF}: 237617.2/53$

In: 719.638 ± 0.095 $\chi^2/\text{NDF}: 1936729.1/47$

Out: 725.575 ± 0.092 $\chi^2/\text{NDF}: 1775835.6/53$

All: 722.706 ± 0.066 $\chi^2/\text{NDF}: 3714568.5/102$

diff_bpm1i06X_mean vs Slug, Sign Corrected



Right In: 82.678 ± 0.551 $\chi^2/\text{NDF}: 4386.2/24$

Left Out: 11.938 ± 0.505 $\chi^2/\text{NDF}: 976.6/24$

Right Out: 31.593 ± 0.528 $\chi^2/\text{NDF}: 6761.5/28$

Left In: -65.752 ± 0.518 $\chi^2/\text{NDF}: 7335.8/22$

Left: -25.968 ± 0.362 $\chi^2/\text{NDF}: 19845.5/47$

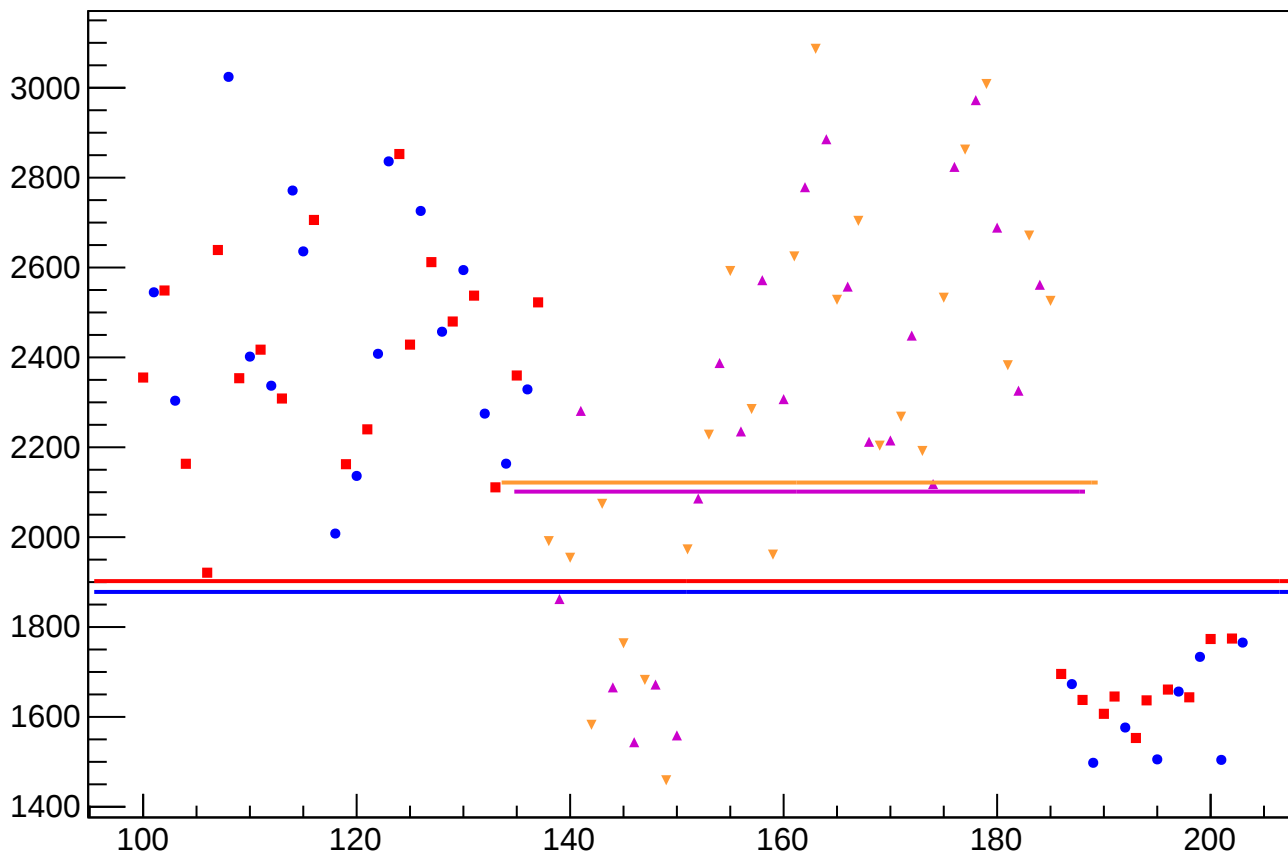
Right: 56.020 ± 0.381 $\chi^2/\text{NDF}: 15632.0/53$

In: 3.829 ± 0.377 $\chi^2/\text{NDF}: 50259.6/47$

Out: 21.344 ± 0.365 $\chi^2/\text{NDF}: 8462.1/53$

All: 12.879 ± 0.262 $\chi^2/\text{NDF}: 59835.2/101$

diff_bpm1i06X_rms vs Slug, Sign Corrected



Right In: 1878.120 $\pm$ 0.390 χ^2 /NDF: 1071908.4/24

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

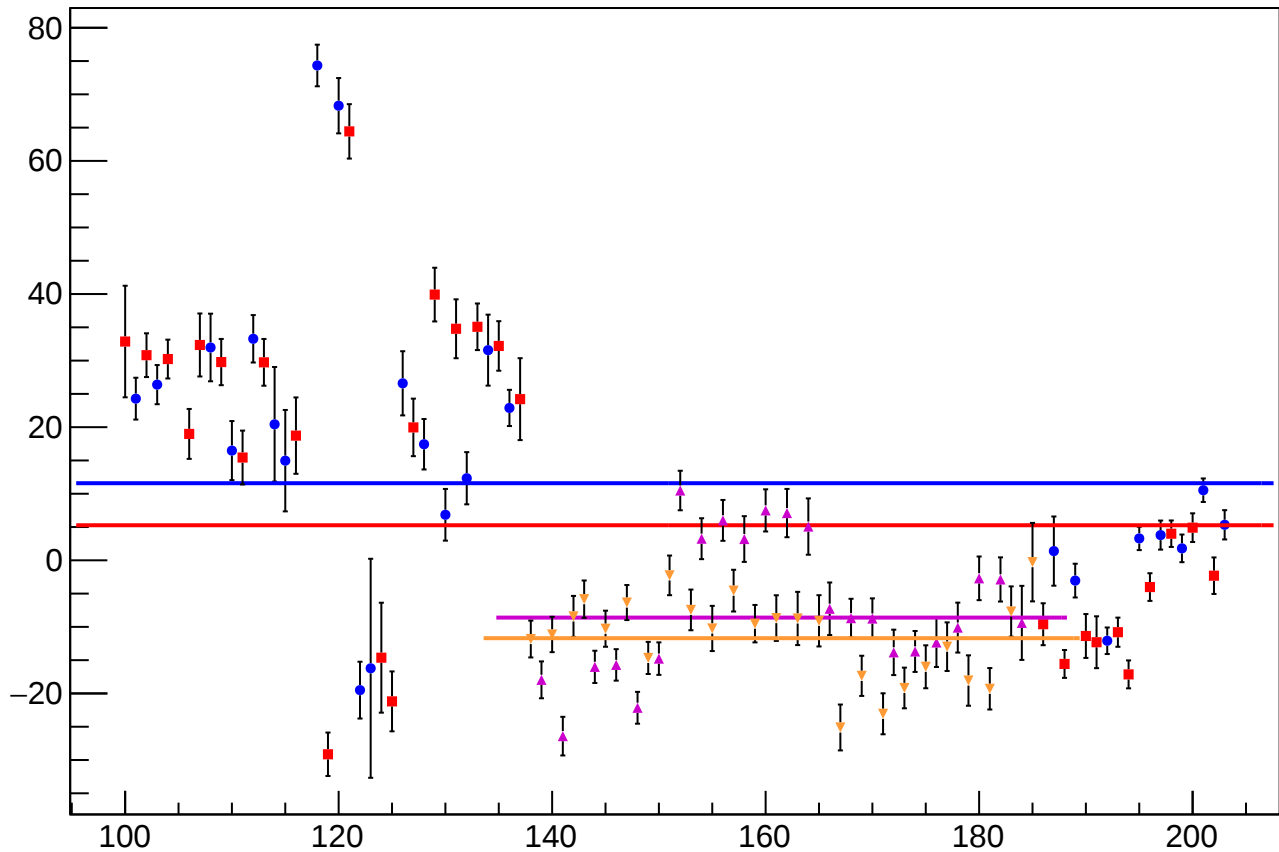
Right: 1890.683 $\pm$ 0.269 χ^2 /NDF: 1983932.3/53

In: 1996.692 $\pm$ 0.267 χ^2 /NDF:2606718.7/47

Out: 2016.592 $\pm$ 0.258 χ^2 /NDF:2478251.4/53

All: 2006.975 $\pm$ 0.185 χ^2 /NDF: 5087844.8/100

diff_bpm1i06Y_mean vs Slug, Sign Corrected



Right In: 11.583 ± 0.599 $\chi^2/\text{NDF}: 1031.1/24$

Left Out: -11.700 ± 0.625 $\chi^2/\text{NDF}: 85.0/24$

Right Out: 5.267 ± 0.586 $\chi^2/\text{NDF}: 1289.4/28$

Left In: -8.606 ± 0.642 $\chi^2/\text{NDF}: 264.2/22$

Left: -10.193 ± 0.448 $\chi^2/\text{NDF}: 361.1/47$

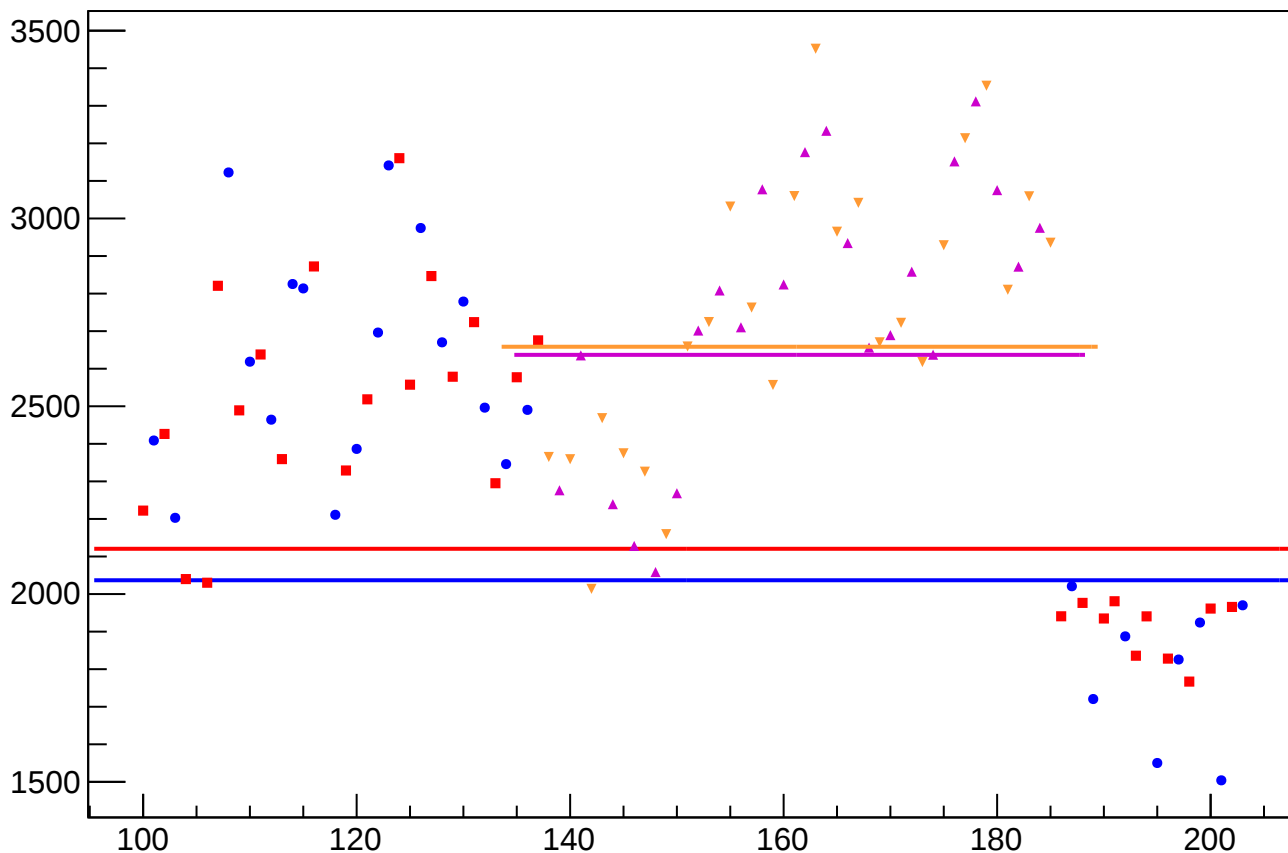
Right: 8.354 ± 0.419 $\chi^2/\text{NDF}: 2377.4/53$

In: 2.186 ± 0.438 $\chi^2/\text{NDF}: 1824.1/47$

Out: -2.660 ± 0.428 $\chi^2/\text{NDF}: 1766.5/53$

All: -0.295 ± 0.306 $\chi^2/\text{NDF}: 3653.4/101$

diff_bpm1i06Y_rms vs Slug, Sign Corrected



Right In: 2036.759 $\pm$ 0.424 χ^2/NDF : 1002754.2/24

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

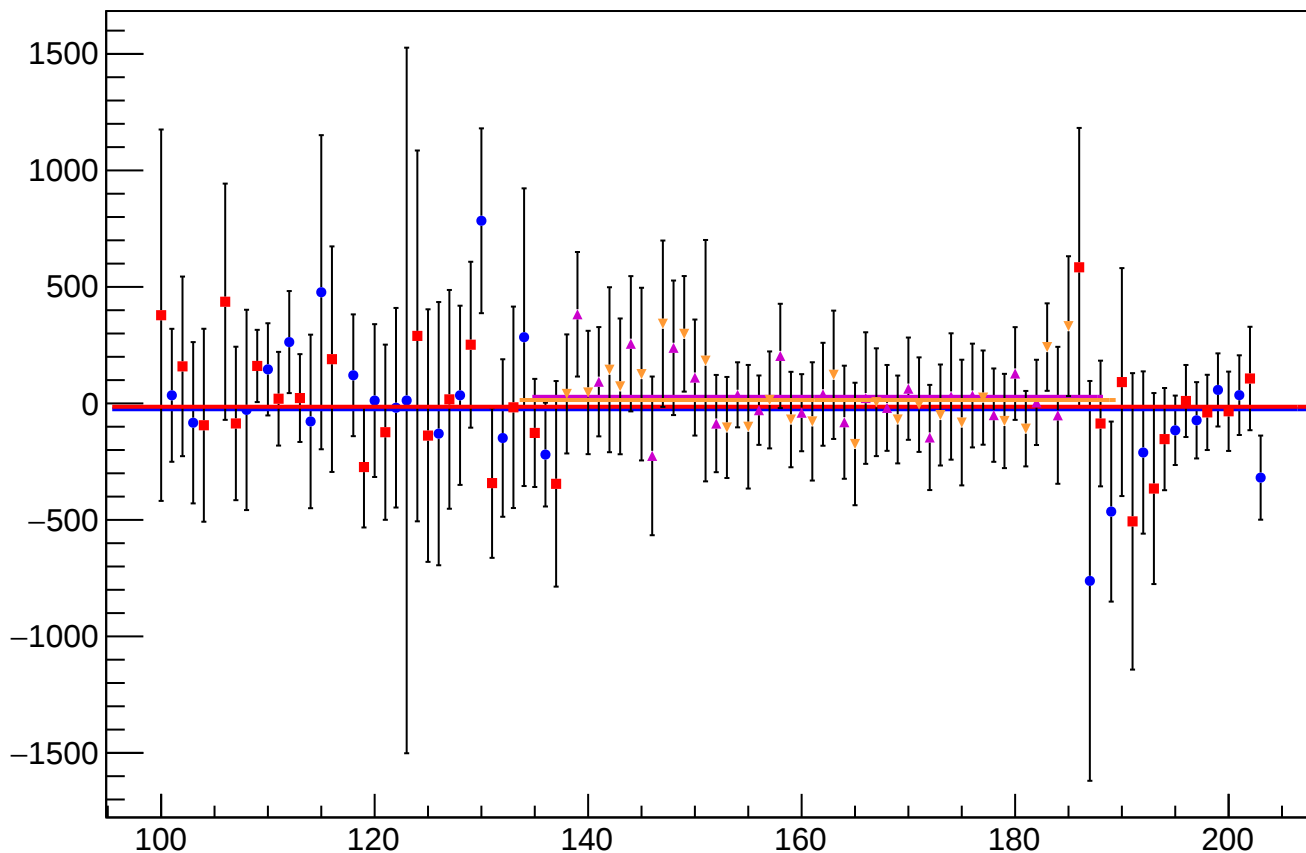
Right: 2079.597 $\pm$ 0.296 χ^2/NDF : 1627710.2/53

In: 2316.071 $\pm$ 0.310 χ^2/NDF : 2590094.4/47

Out: 2371.877 $\pm$ 0.302 χ^2/NDF : 2011339.9/53

All: 2344.647 $\pm$ 0.216 χ^2/NDF : 4618063.8/100

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -25.127 ± 52.462 χ^2/NDF : 14.6/24

Left Out: 14.520 ± 47.528 χ^2/NDF : 7.8/24

Right Out: -14.340 ± 50.698 χ^2/NDF : 9.7/28

Left In: 28.310 ± 44.638 χ^2/NDF : 6.3/22

Left: 21.847 ± 32.538 χ^2/NDF : 14.1/47

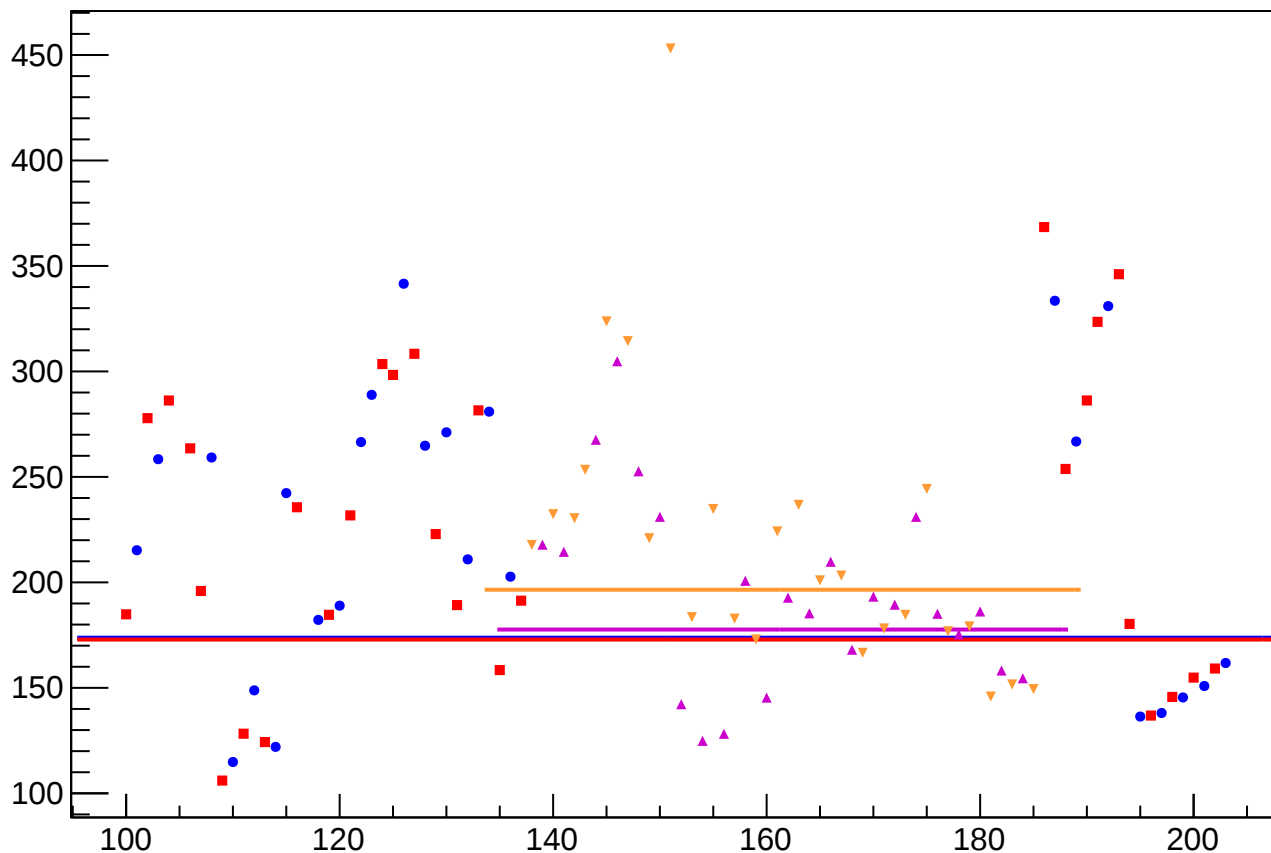
Right: -19.549 ± 36.457 χ^2/NDF : 24.4/53

In: 5.869 ± 33.997 χ^2/NDF : 21.5/47

Out: 1.020 ± 34.674 χ^2/NDF : 17.7/53

All: 3.492 ± 24.275 χ^2/NDF : 39.2/101

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 173.780 $\pm$ 0.037 χ^2 /NDF: 2061543.8/24

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

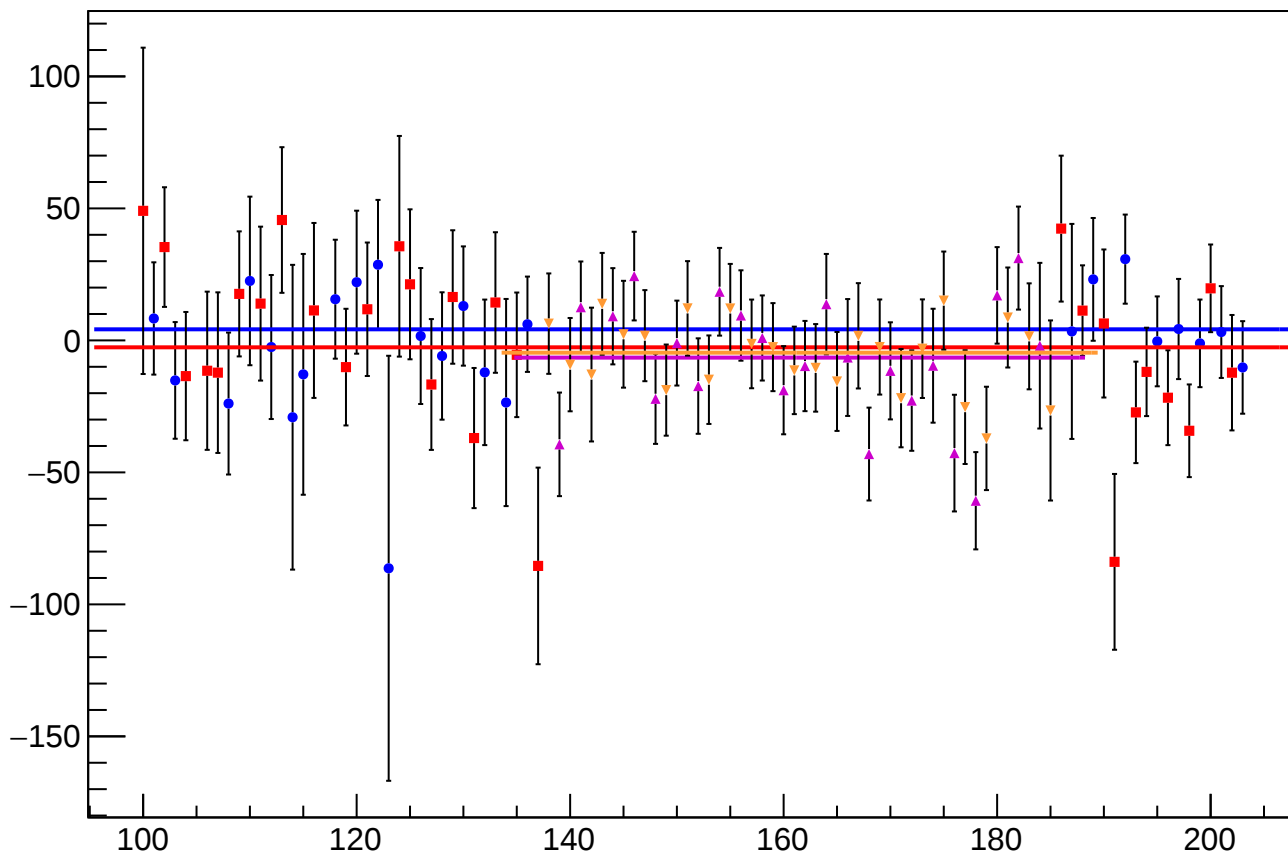
Right: 173.325 $\pm$ 0.026 χ^2 /NDF: 4801610.4/53

In: 176.021 $\pm$ 0.024 χ^2 /NDF:3698498.1/47

Out: 185.469 $\pm$ 0.025 χ^2 /NDF:4760207.9/53

All: 180.652 $\pm$ 0.017 χ^2 /NDF: 8534407.5/103

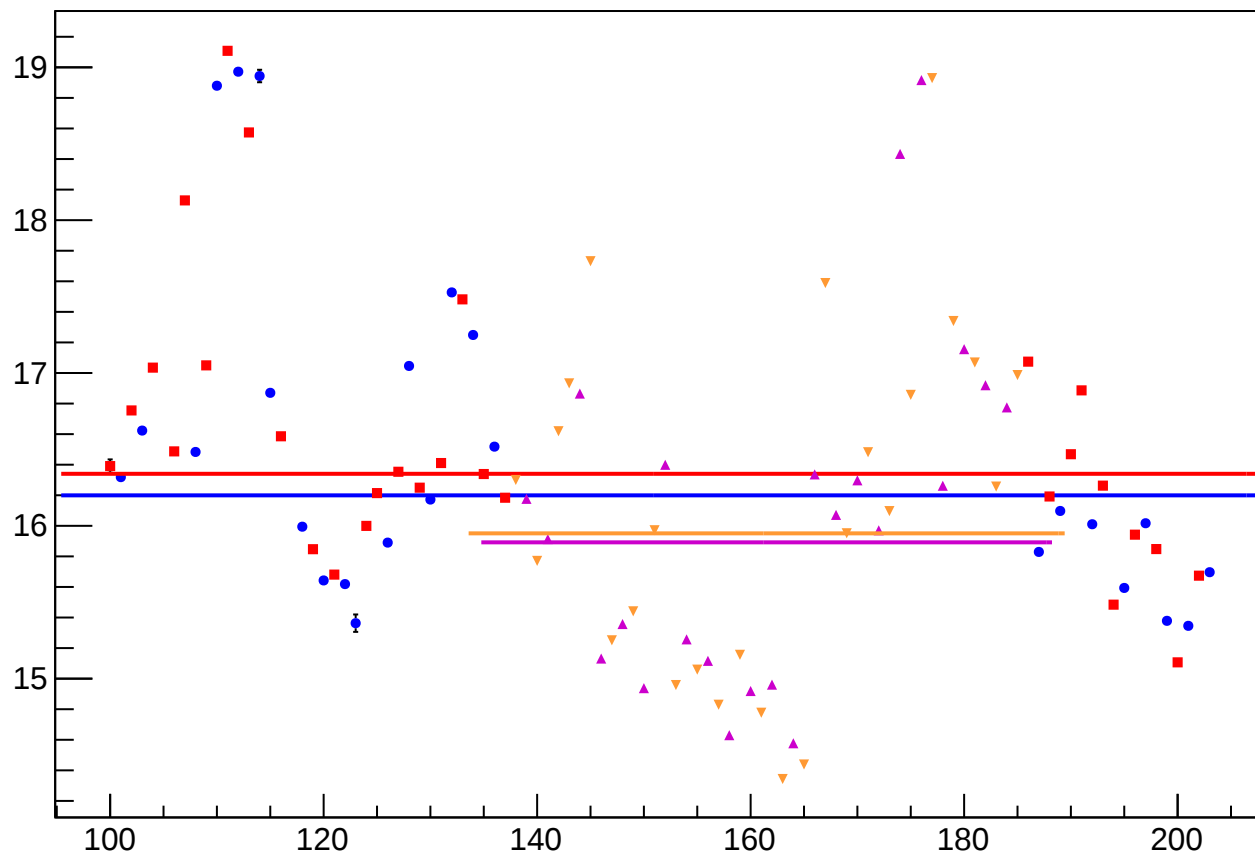
asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 4.195 ± 4.638 $\chi^2/\text{NDF}: 10.9/24$
 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: 0.644 ± 3.212 $\chi^2/\text{NDF}: 47.8/53$
 In: -2.183 ± 2.952 $\chi^2/\text{NDF}: 50.5/47$
 Out: -3.813 ± 2.858 $\chi^2/\text{NDF}: 48.0/53$
 All: -3.024 ± 2.053 $\chi^2/\text{NDF}: 98.6/101$

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 16.199 $\pm$ 0.003 χ^2 /NDF: 67042.5/24

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

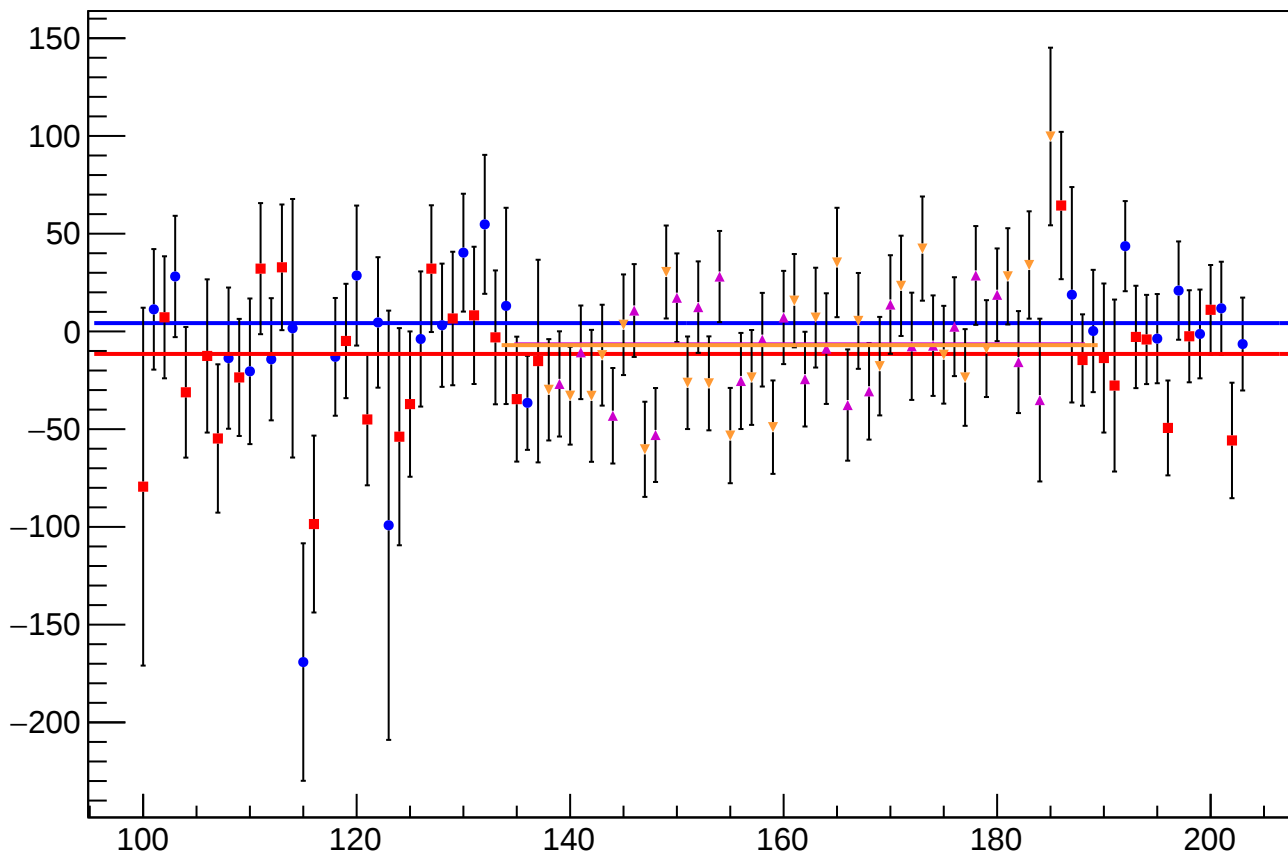
Right: 16.273 $\pm$ 0.002 χ^2 /NDF: 139457.0/53

In: 16.016 $\pm$ 0.002 χ^2 /NDF:219366.8/47

Out: 16.111 $\pm$ 0.002 χ^2 /NDF:253918.5/53

All: 16.065 $\pm$ 0.001 χ^2 /NDF: 474351.5/101

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 4.255 ± 6.198 χ^2/NDF : 21.8/24

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

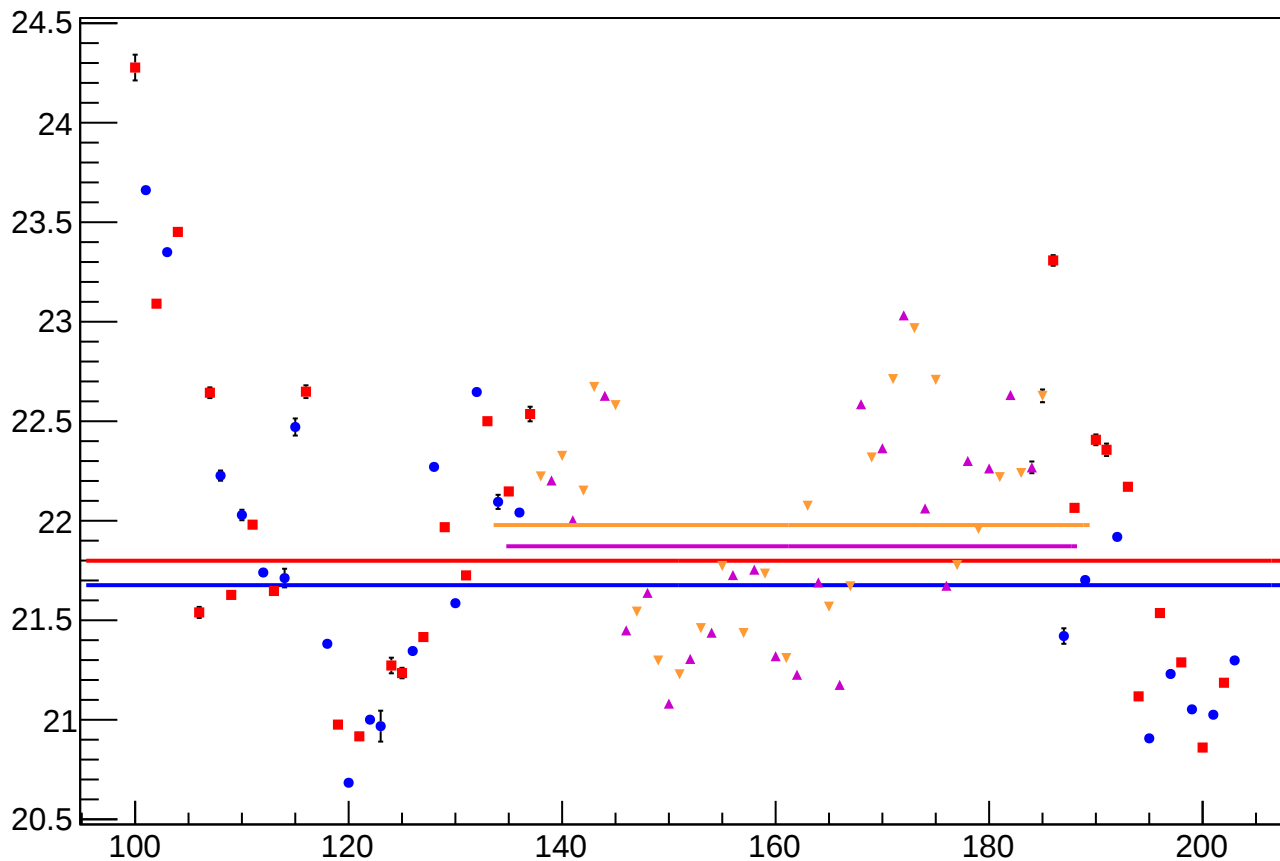
Right: -3.979 ± 4.285 χ^2/NDF : 50.5/53

In: -2.071 ± 4.007 χ^2/NDF : 42.8/47

Out: -8.939 ± 3.876 χ^2/NDF : 63.1/53

All: -5.619 ± 2.786 χ^2/NDF : 107.4/101

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 21.676+/-0.004 χ^2/NDF : 27411.5/24

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

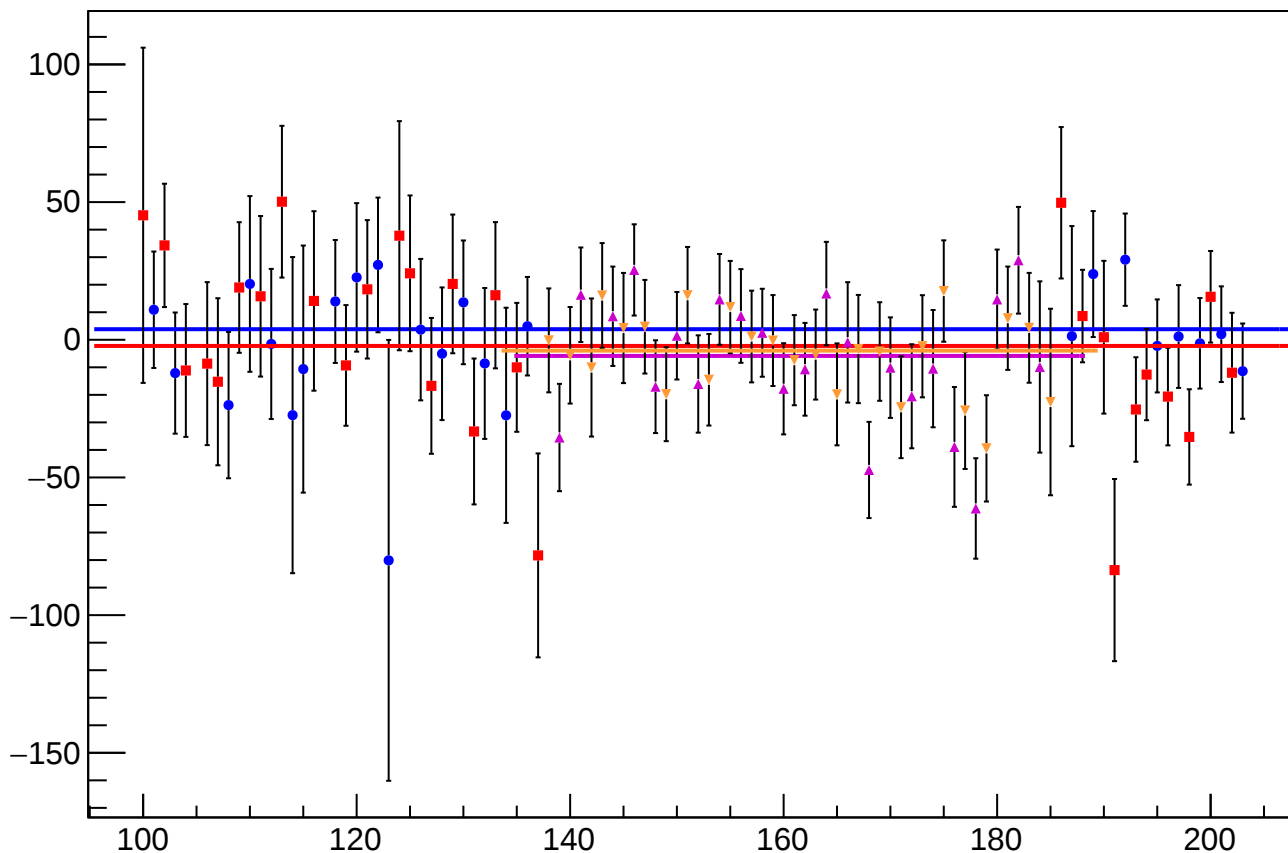
Right: 21.741+/-0.003 χ^2/NDF : 56836.5/53

In: 21.790+/-0.003 χ^2/NDF :49093.6/47

Out: 21.902+/-0.003 χ^2/NDF :49490.9/53

All: 21.848+/-0.002 χ^2/NDF : 99387.7/101

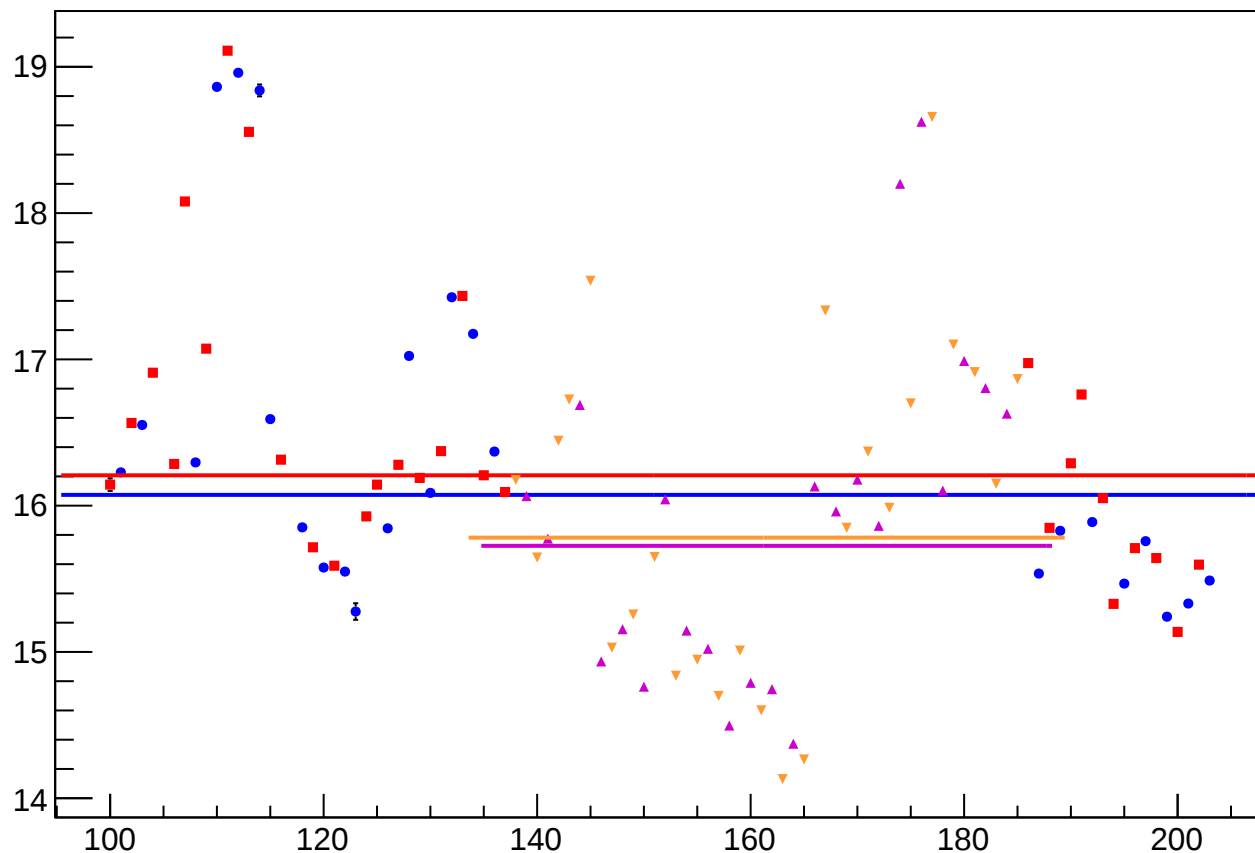
asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 3.843 ± 4.603 $\chi^2/\text{NDF}: 10.4/24$
 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: 0.677 ± 3.187 $\chi^2/\text{NDF}: 47.9/53$
 In: -1.944 ± 2.924 $\chi^2/\text{NDF}: 49.2/47$
 Out: -3.233 ± 2.831 $\chi^2/\text{NDF}: 50.6/53$
 All: -2.609 ± 2.034 $\chi^2/\text{NDF}: 100.0/101$

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 16.074 $\pm$ 0.003 χ^2 /NDF: 71115.6/24

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

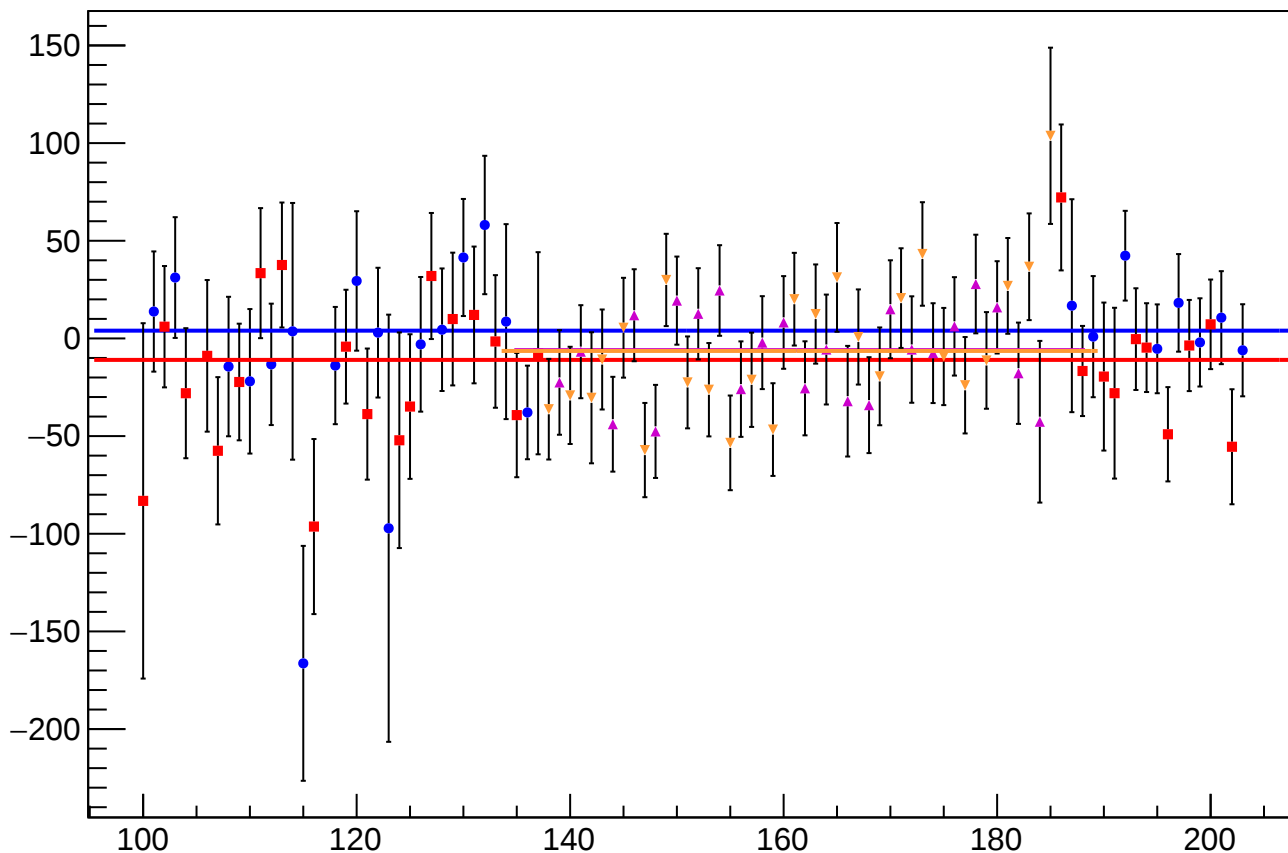
Right: 16.143 $\pm$ 0.002 χ^2 /NDF: 147926.9/53

In: 15.866 $\pm$ 0.002 χ^2 /NDF:223776.5/47

Out: 15.956 $\pm$ 0.002 χ^2 /NDF:259797.5/53

All: 15.913 $\pm$ 0.001 χ^2 /NDF: 484560.1/101

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 3.979 ± 6.168 $\chi^2/\text{NDF}: 22.4/24$

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 $\chi^2/\text{NDF}: 55.9/47$

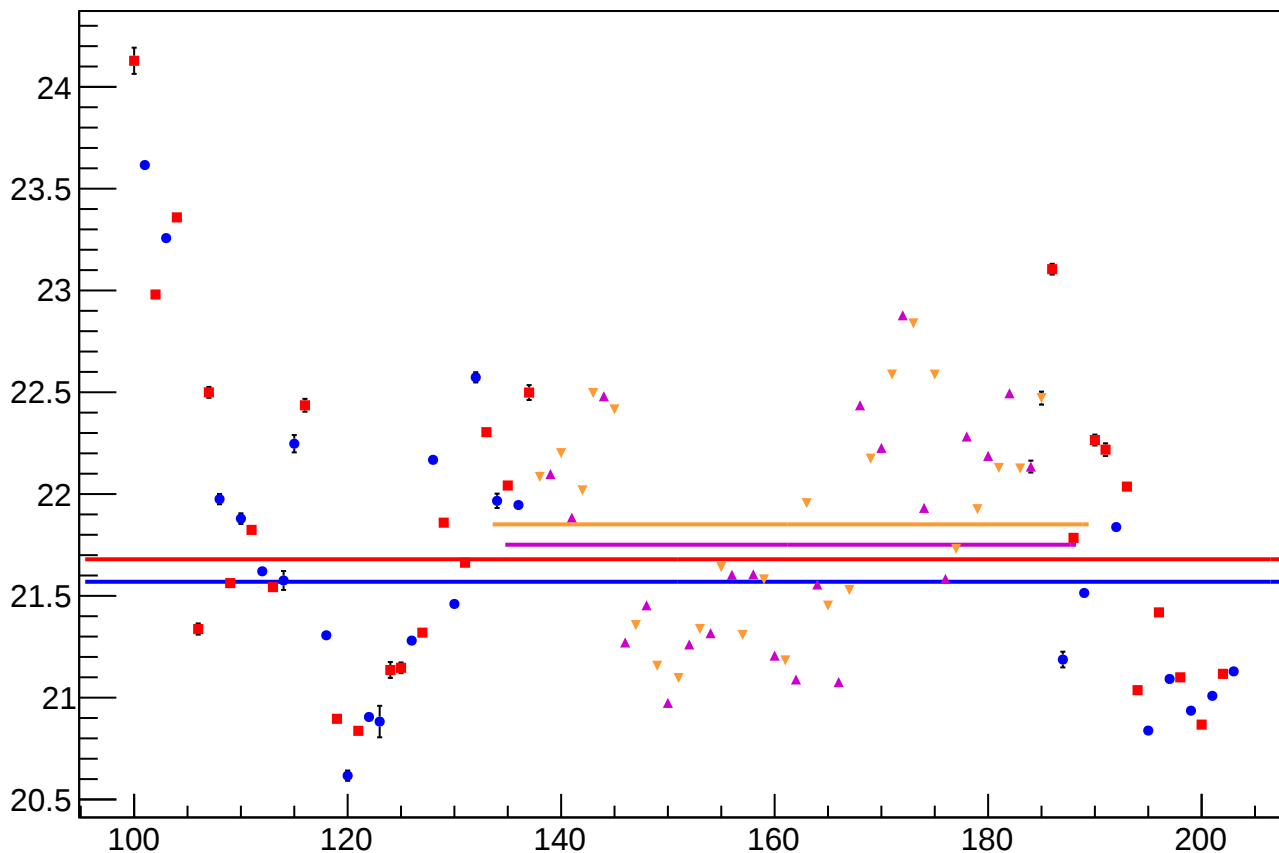
Right: -3.840 ± 4.262 $\chi^2/\text{NDF}: 52.1/53$

In: -1.820 ± 3.986 $\chi^2/\text{NDF}: 42.4/47$

Out: -8.362 ± 3.854 $\chi^2/\text{NDF}: 64.4/53$

All: -5.201 ± 2.770 $\chi^2/\text{NDF}: 108.2/101$

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 21.569 $\pm$ 0.004 χ^2 /NDF: 27601.0/24

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

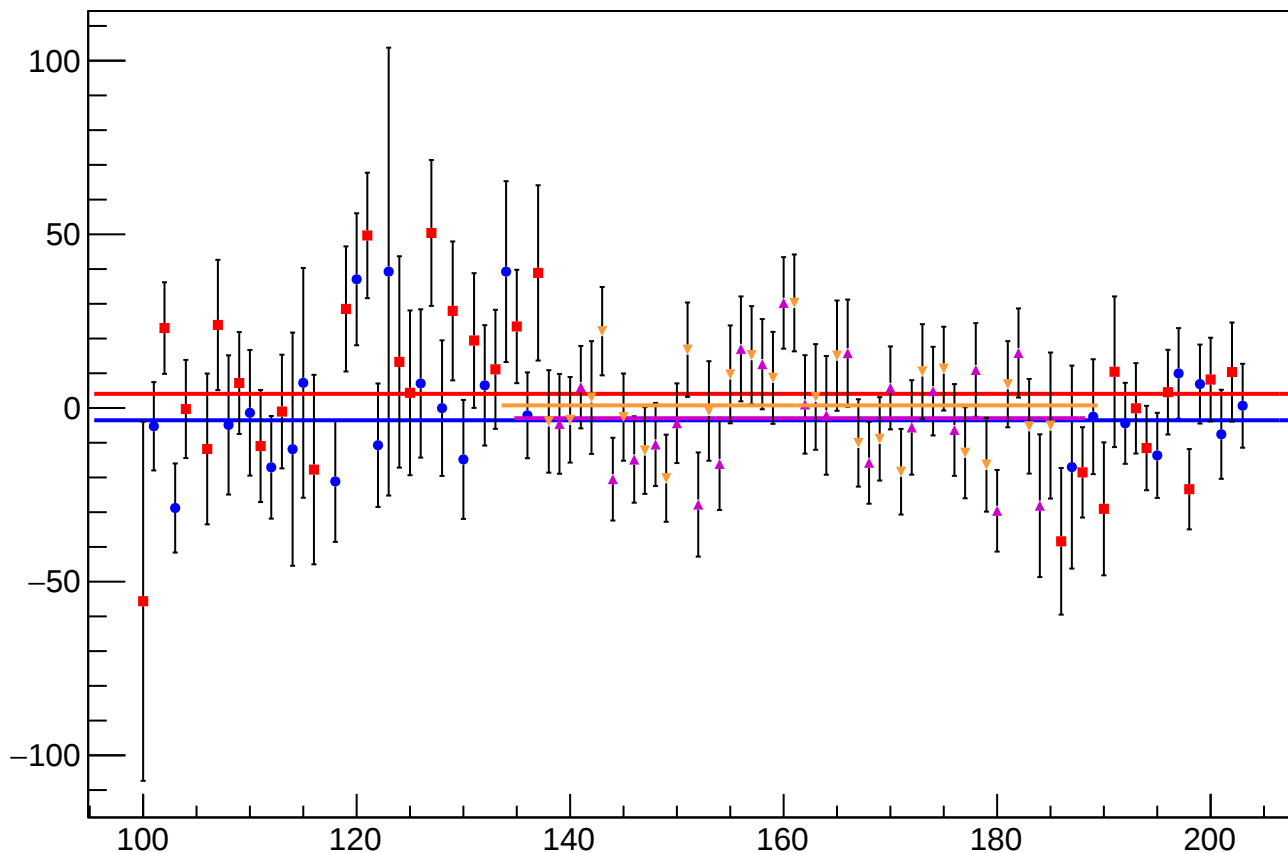
Right: 21.627 $\pm$ 0.003 χ^2 /NDF: 55228.9/53

In: 21.675 $\pm$ 0.003 χ^2 /NDF:49131.0/47

Out: 21.778 $\pm$ 0.003 χ^2 /NDF:47893.5/53

All: 21.728 $\pm$ 0.002 χ^2 /NDF: 97710.6/101

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -3.536 ± 3.184 $\chi^2/\text{NDF}: 17.9/24$

Left Out: 0.759 ± 2.698 $\chi^2/\text{NDF}: 23.8/24$

Right Out: 4.075 ± 3.063 $\chi^2/\text{NDF}: 43.4/28$

Left In: -2.944 ± 2.757 $\chi^2/\text{NDF}: 30.9/22$

Left: -1.053 ± 1.929 $\chi^2/\text{NDF}: 55.7/47$

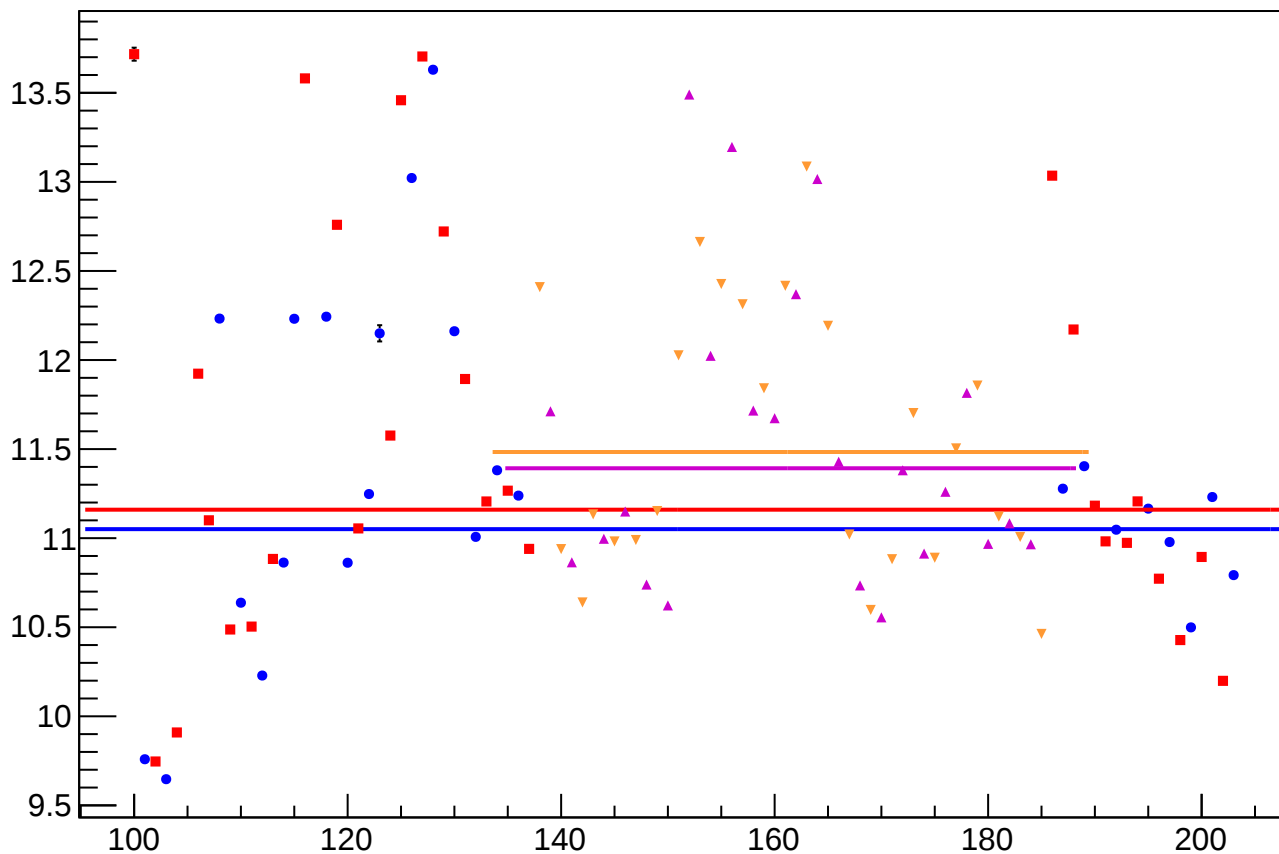
Right: 0.416 ± 2.208 $\chi^2/\text{NDF}: 64.2/53$

In: -3.198 ± 2.084 $\chi^2/\text{NDF}: 48.9/47$

Out: 2.208 ± 2.025 $\chi^2/\text{NDF}: 67.8/53$

All: -0.417 ± 1.452 $\chi^2/\text{NDF}: 120.2/101$

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 11.051+/-0.002 χ^2/NDF : 140241.5/24

Left Out: 11.484+/-0.002 χ^2/NDF :129805.4/24

Right Out: 11.160+/-0.002 χ^2/NDF : 198137.4/28

Left In: 11.392+/-0.002 χ^2/NDF :150493.3/22

Left: 11.439+/-0.001 χ^2/NDF : 281419.2/47

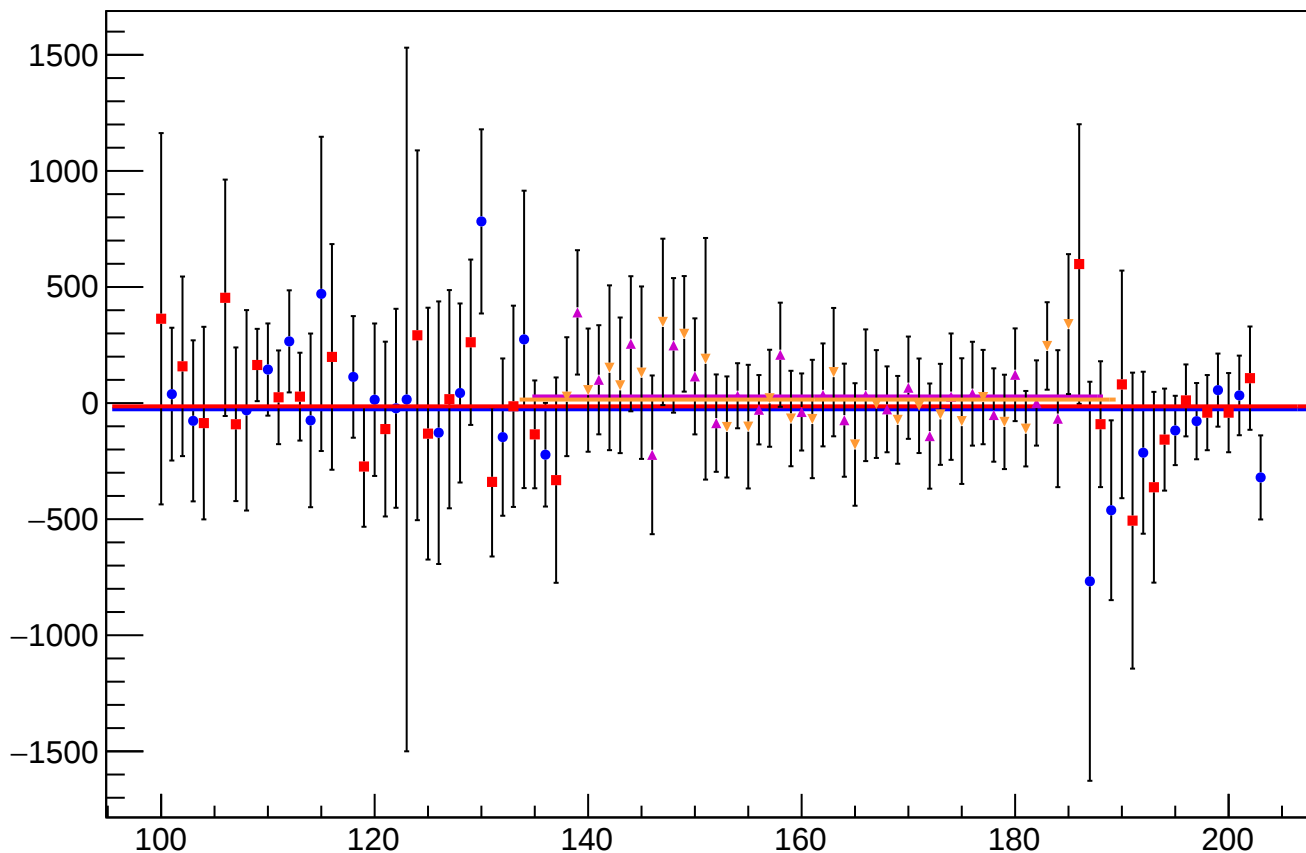
Right: 11.107+/-0.002 χ^2/NDF : 339601.1/53

In: 11.246+/-0.001 χ^2/NDF :303900.5/47

Out: 11.342+/-0.001 χ^2/NDF :340528.0/53

All: 11.295+/-0.001 χ^2/NDF : 646625.3/101

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs Slug, Sign Corrected



Right In: -26.680 ± 52.599 $\chi^2/\text{NDF}: 14.6/24$

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 $\chi^2/\text{NDF}: 14.4/47$

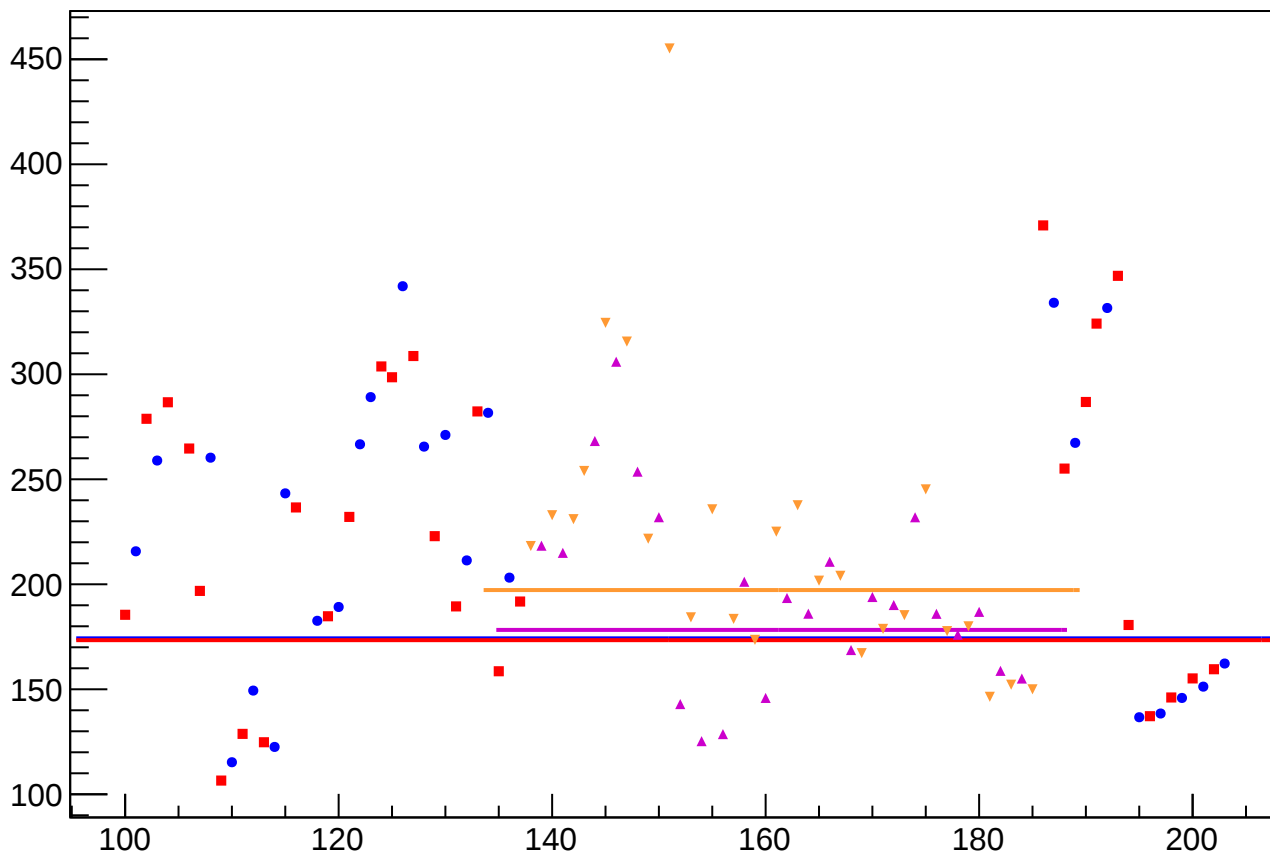
Right: -20.168 ± 36.554 $\chi^2/\text{NDF}: 24.5/53$

In: 5.302 ± 34.104 $\chi^2/\text{NDF}: 21.6/47$

Out: 1.450 ± 34.787 $\chi^2/\text{NDF}: 18.1/53$

All: 3.414 ± 24.353 $\chi^2/\text{NDF}: 39.7/101$

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs Slug, Sign Corrected



Right In: 174.256 $\pm$ 0.037 χ^2/NDF : 2056155.0/24

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

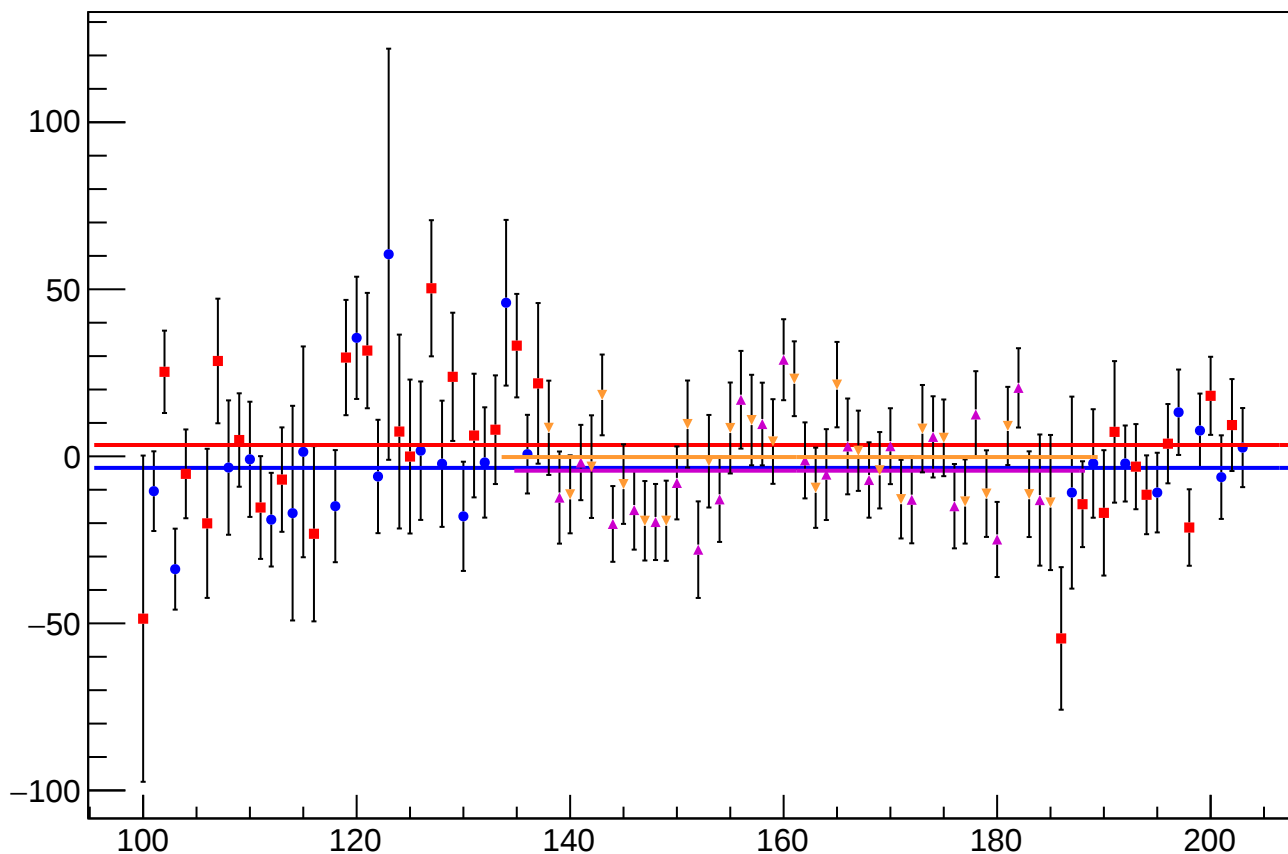
Right: 173.808 $\pm$ 0.026 χ^2/NDF : 4792161.3/53

In: 176.586 $\pm$ 0.024 χ^2/NDF :3691846.9/47

Out: 186.078 $\pm$ 0.025 χ^2/NDF :4756777.1/53

All: 181.238 $\pm$ 0.017 χ^2/NDF : 8524540.2/103

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs Slug, Sign Corrected



Right In: -3.459 ± 3.072 χ^2/NDF : 22.6/24

Left Out: -0.211 ± 2.523 χ^2/NDF : 24.5/24

Right Out: 3.395 ± 2.963 χ^2/NDF : 45.2/28

Left In: -4.298 ± 2.589 χ^2/NDF : 31.6/22

Left: -2.202 ± 1.807 χ^2/NDF : 57.4/47

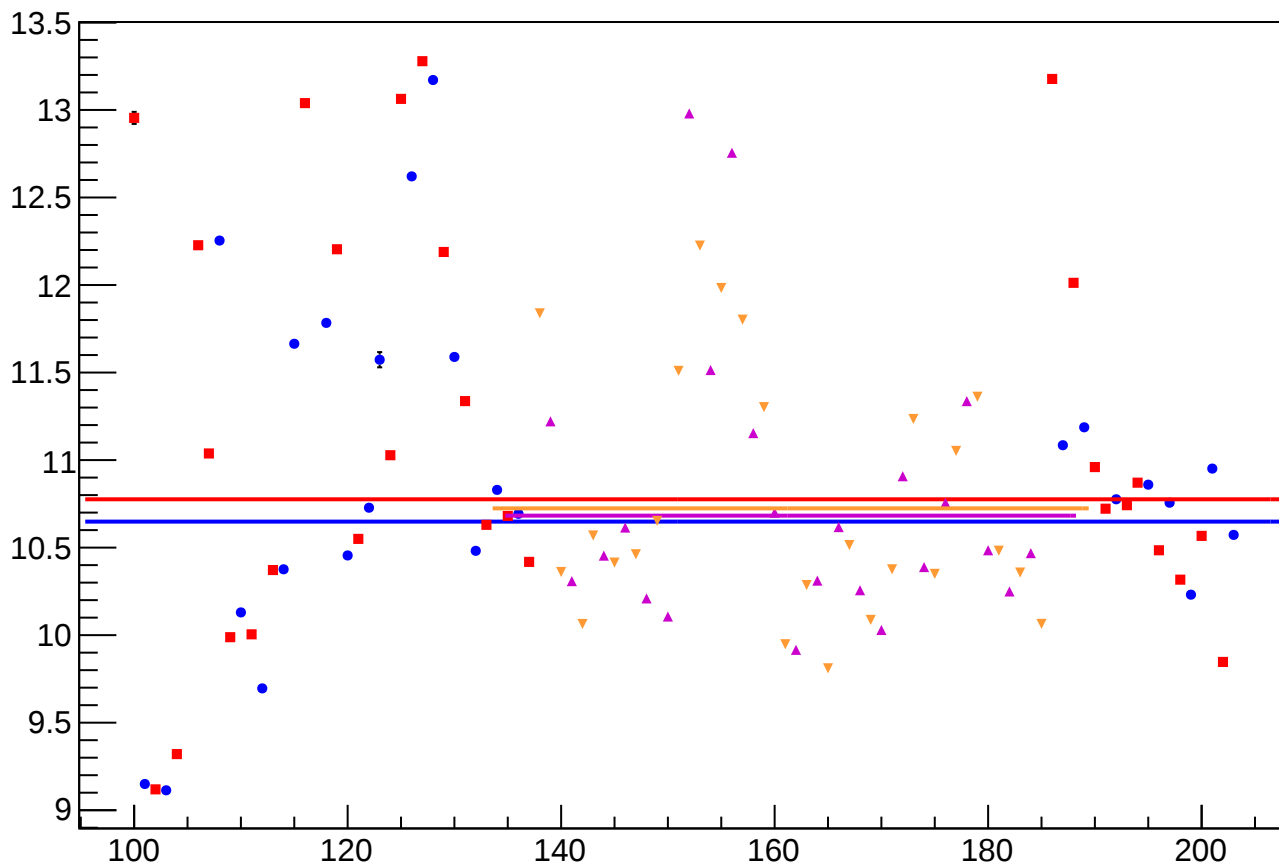
Right: 0.093 ± 2.133 χ^2/NDF : 70.4/53

In: -3.949 ± 1.980 χ^2/NDF : 54.2/47

Out: 1.305 ± 1.921 χ^2/NDF : 70.6/53

All: -1.243 ± 1.379 χ^2/NDF : 128.4/101

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs Slug, Sign Corrected



Right In: 10.649 $\pm$ 0.002 χ^2 /NDF: 168057.7/24

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

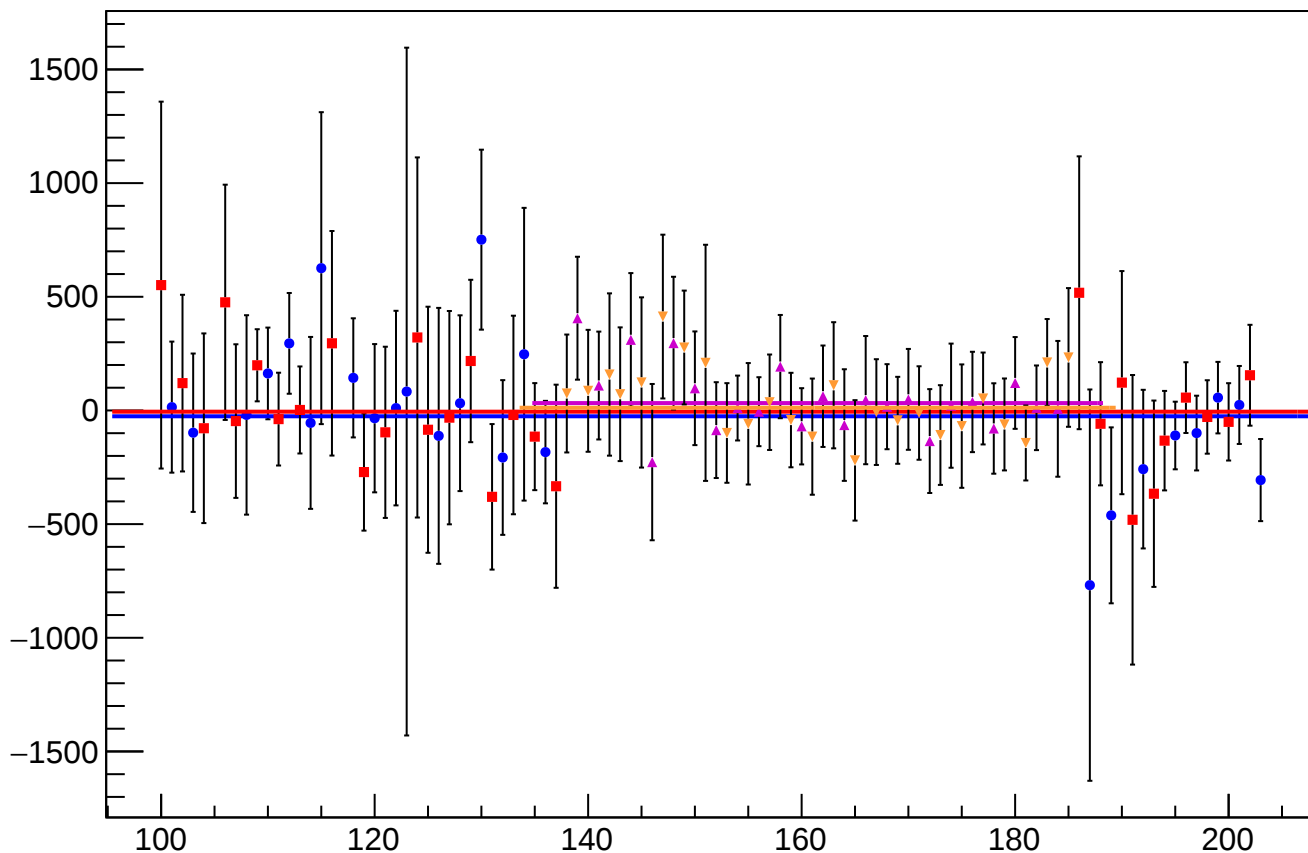
Right: 10.715 $\pm$ 0.002 χ^2 /NDF: 406208.6/53

In: 10.668 $\pm$ 0.001 χ^2 /NDF:316037.1/47

Out: 10.746 $\pm$ 0.001 χ^2 /NDF:369280.1/53

All: 10.708 $\pm$ 0.001 χ^2 /NDF: 686896.6/101

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -25.693 ± 52.713 $\chi^2/\text{NDF}: 15.0/24$

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 $\chi^2/\text{NDF}: 14.6/47$

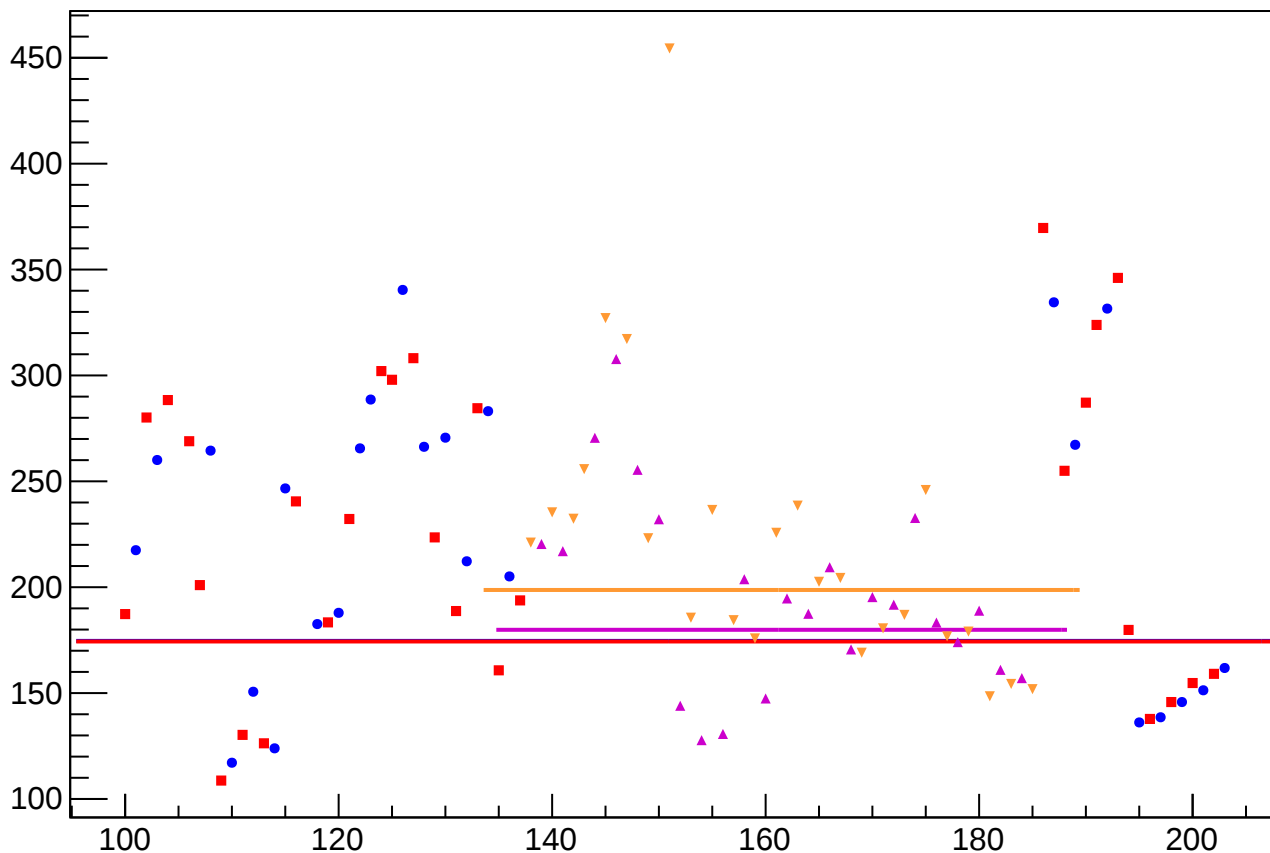
Right: -15.233 ± 36.678 $\chi^2/\text{NDF}: 25.7/53$

In: 7.821 ± 34.293 $\chi^2/\text{NDF}: 22.6/47$

Out: 3.769 ± 34.984 $\chi^2/\text{NDF}: 18.4/53$

All: 5.835 ± 24.489 $\chi^2/\text{NDF}: 41.0/101$

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 174.643 ± 0.037 χ^2/NDF : 2053205.7/24

Left Out: 198.695 ± 0.034 χ^2/NDF : 1759311.9/24

Right Out: 174.373 ± 0.036 χ^2/NDF : 2689766.2/28

Left In: 179.886 ± 0.032 χ^2/NDF : 1580636.4/22

Left: 188.712 ± 0.023 χ^2/NDF : 3502782.6/47

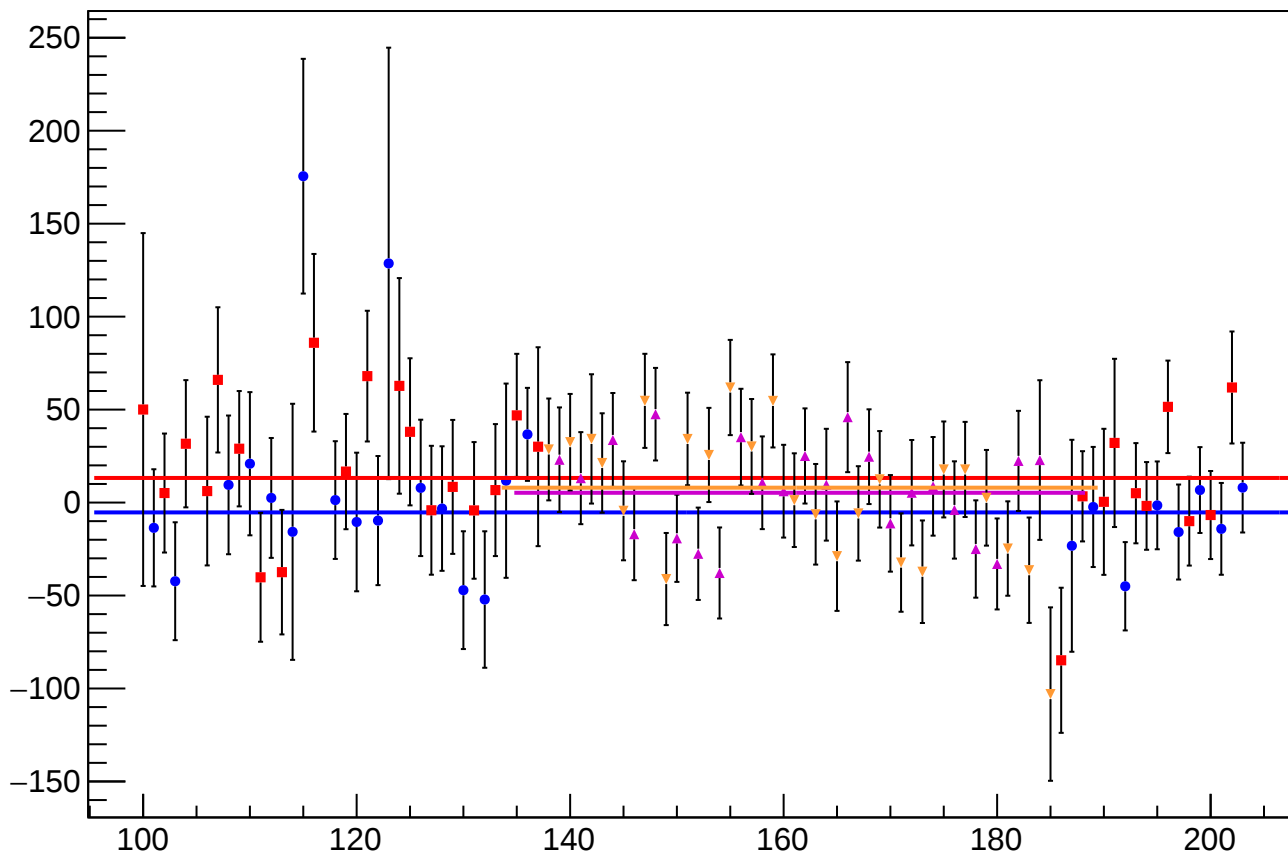
Right: 174.504 ± 0.026 χ^2/NDF : 4742998.9/53

In: 177.667 ± 0.024 χ^2/NDF : 3645256.8/47

Out: 187.281 ± 0.025 χ^2/NDF : 4689845.8/53

All: 182.378 ± 0.017 χ^2/NDF : 8412122.6/103

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -5.295 ± 6.405 χ^2/NDF : 22.0/24

Left Out: 8.004 ± 5.334 χ^2/NDF : 37.4/24

Right Out: 13.236 ± 6.140 χ^2/NDF : 28.7/28

Left In: 5.261 ± 5.465 χ^2/NDF : 20.8/22

Left: 6.665 ± 3.817 χ^2/NDF : 58.3/47

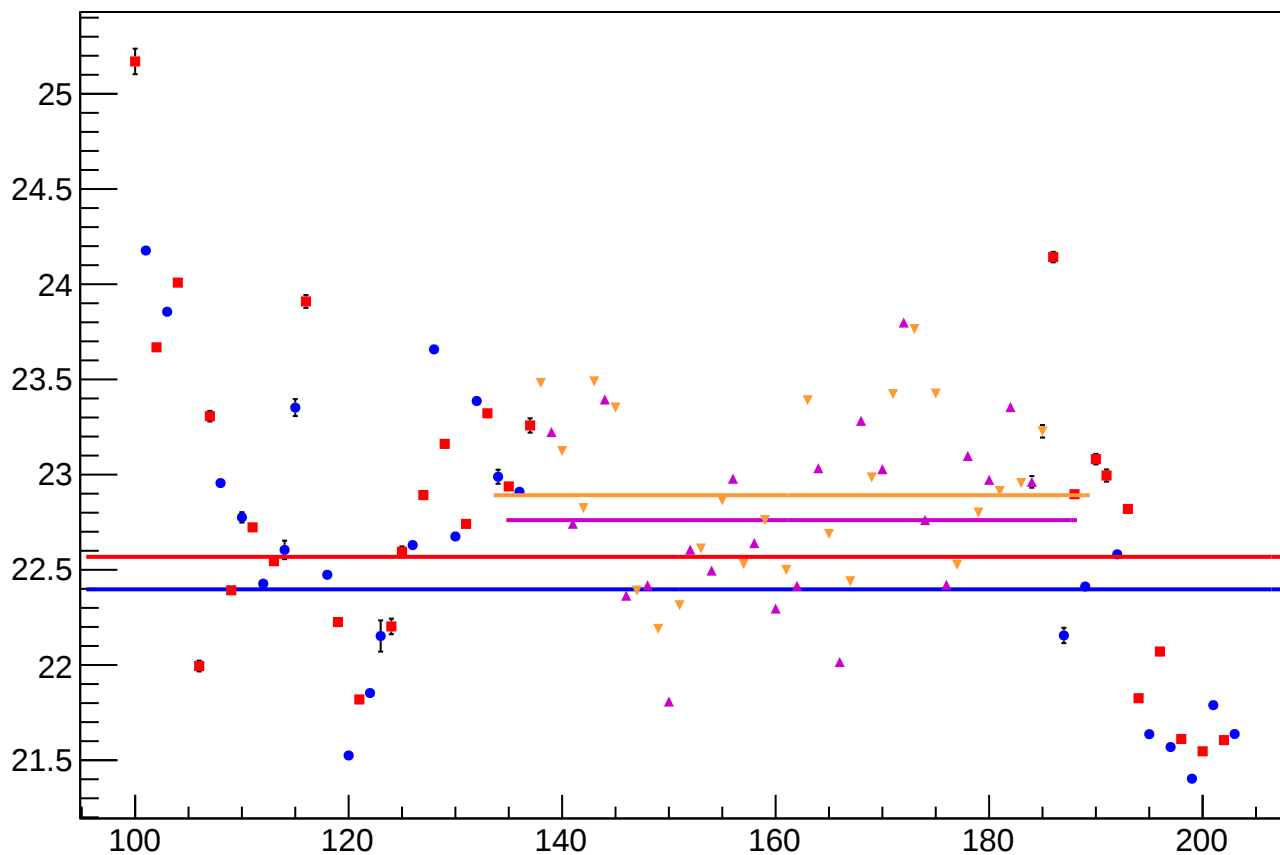
Right: 4.362 ± 4.432 χ^2/NDF : 55.1/53

In: 0.814 ± 4.157 χ^2/NDF : 44.3/47

Out: 10.254 ± 4.027 χ^2/NDF : 66.6/53

All: 5.685 ± 2.892 χ^2/NDF : 113.5/101

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.397 ± 0.005 $\chi^2/\text{NDF}: 30189.3/24$

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 $\chi^2/\text{NDF}: 28133.9/47$

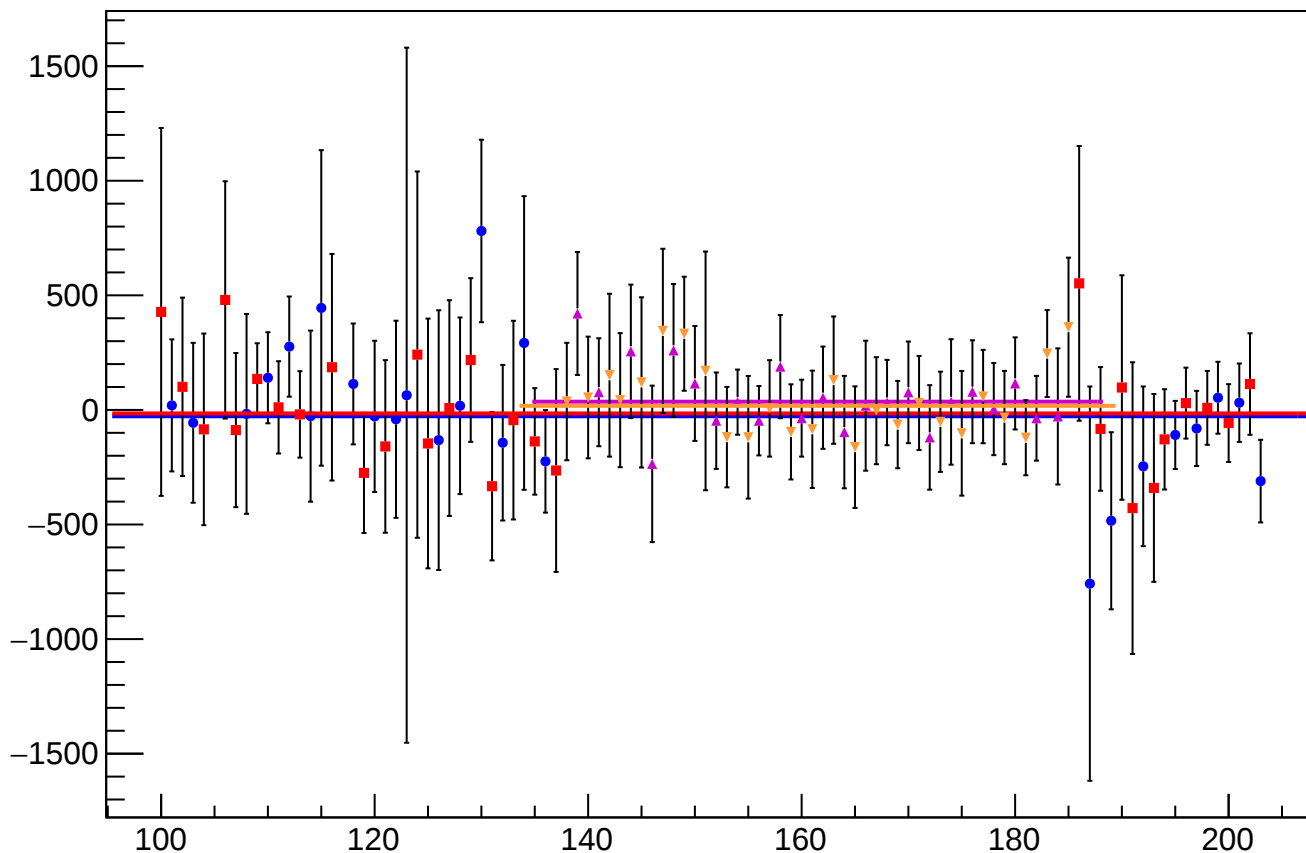
Right: 22.486 ± 0.003 $\chi^2/\text{NDF}: 60693.8/53$

In: 22.608 ± 0.003 $\chi^2/\text{NDF}: 48467.9/47$

Out: 22.753 ± 0.003 $\chi^2/\text{NDF}: 45931.0/53$

All: 22.683 ± 0.002 $\chi^2/\text{NDF}: 95651.3/101$

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -27.618 ± 52.559 $\chi^2/\text{NDF}: 14.5/24$

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 $\chi^2/\text{NDF}: 14.9/47$

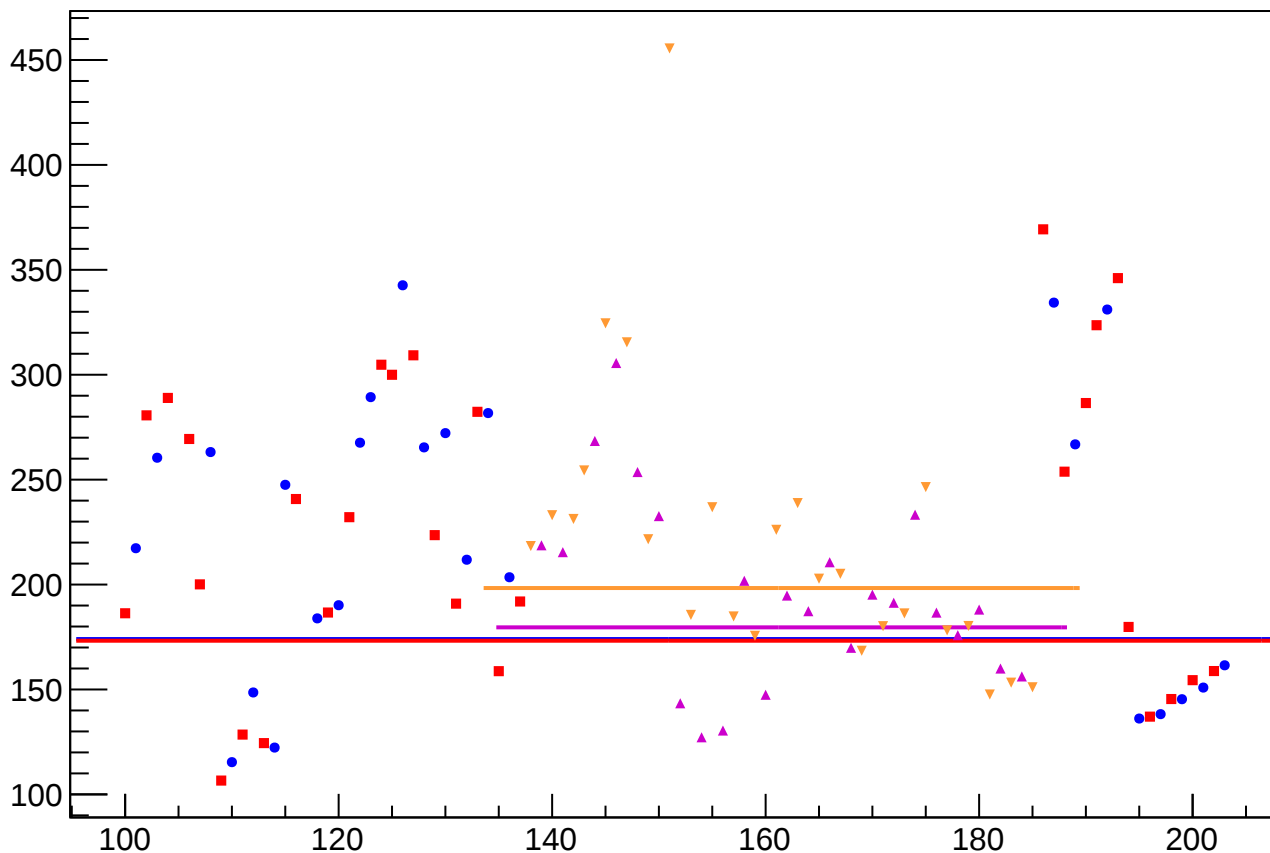
Right: -21.284 ± 36.532 $\chi^2/\text{NDF}: 23.2/53$

In: 8.961 ± 34.221 $\chi^2/\text{NDF}: 21.7/47$

Out: 2.170 ± 34.871 $\chi^2/\text{NDF}: 17.4/53$

All: 5.629 ± 24.425 $\chi^2/\text{NDF}: 39.1/101$

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 174.025+/-0.037 χ^2/NDF : 2084078.3/24

Left Out: 198.344+/-0.034 χ^2/NDF :1757450.6/24

Right Out: 173.240+/-0.036 χ^2/NDF : 2761632.6/28

Left In: 179.605+/-0.032 χ^2/NDF :1575744.0/22

Left: 188.400+/-0.023 χ^2/NDF : 3495336.8/47

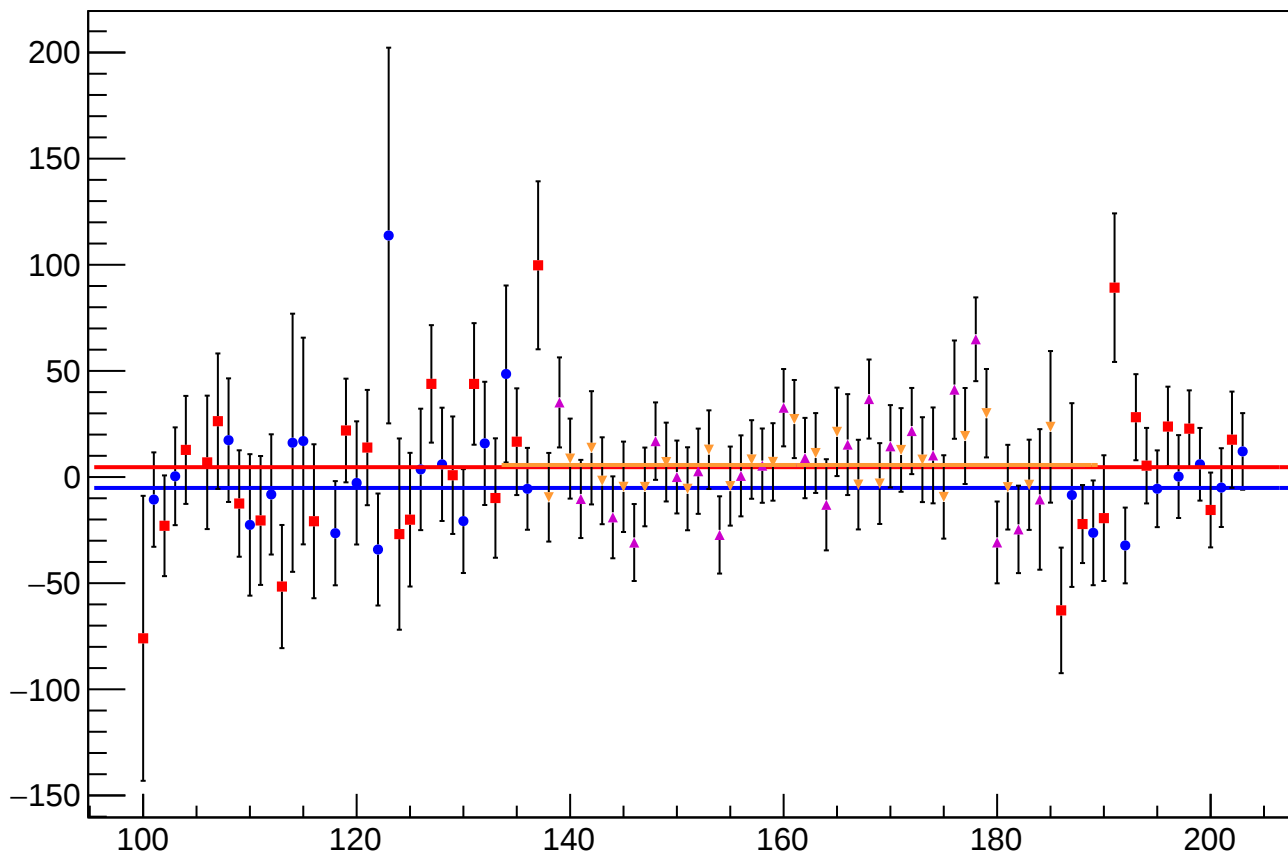
Right: 173.619+/-0.026 χ^2/NDF : 4845941.6/53

In: 177.239+/-0.024 χ^2/NDF :3672809.7/47

Out: 186.521+/-0.025 χ^2/NDF :4777340.1/53

All: 181.793+/-0.017 χ^2/NDF : 8522336.4/103

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -5.136 ± 4.910 χ^2/NDF : 12.4/24

Left Out: 5.680 ± 4.024 χ^2/NDF : 7.7/24

Right Out: 4.648 ± 4.728 χ^2/NDF : 39.5/28

Left In: 5.595 ± 4.121 χ^2/NDF : 36.4/22

Left: 5.639 ± 2.879 χ^2/NDF : 44.1/47

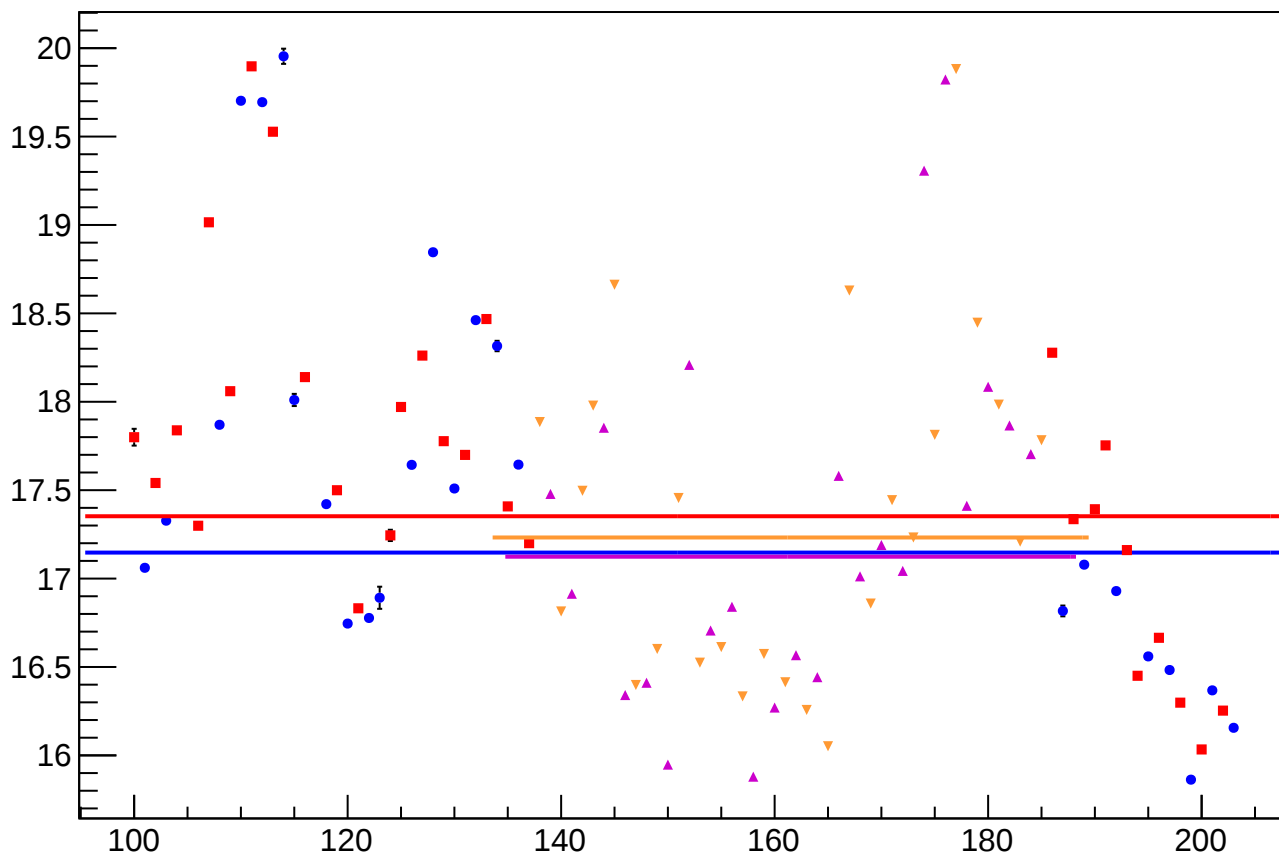
Right: -0.059 ± 3.406 χ^2/NDF : 54.0/53

In: 1.160 ± 3.157 χ^2/NDF : 51.6/47

Out: 5.247 ± 3.064 χ^2/NDF : 47.3/53

All: 3.264 ± 2.199 χ^2/NDF : 99.8/101

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 17.147 $\pm$ 0.003 χ^2 /NDF: 77084.4/24

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

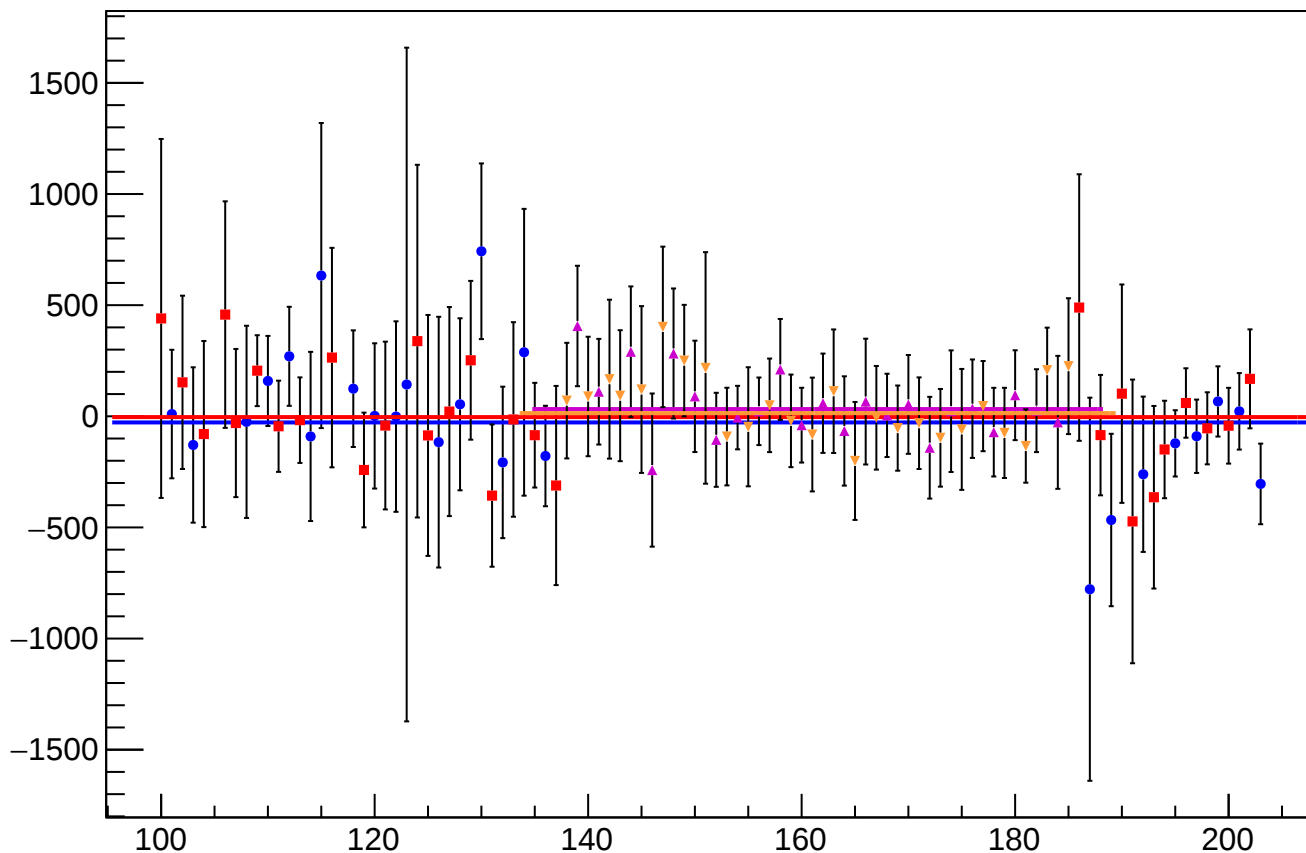
Right: 17.254 $\pm$ 0.002 χ^2 /NDF: 153752.3/53

In: 17.133 $\pm$ 0.002 χ^2 /NDF:177857.9/47

Out: 17.283 $\pm$ 0.002 χ^2 /NDF:174299.5/53

All: 17.210 $\pm$ 0.002 χ^2 /NDF: 354468.1/101

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -27.672 ± 52.872 χ^2/NDF : 14.7/24

Left Out: 14.362 ± 48.130 χ^2/NDF : 6.9/24

Right Out: -3.571 ± 51.190 χ^2/NDF : 10.2/28

Left In: 32.571 ± 45.248 χ^2/NDF : 6.7/22

Left: 24.028 ± 32.967 χ^2/NDF : 13.7/47

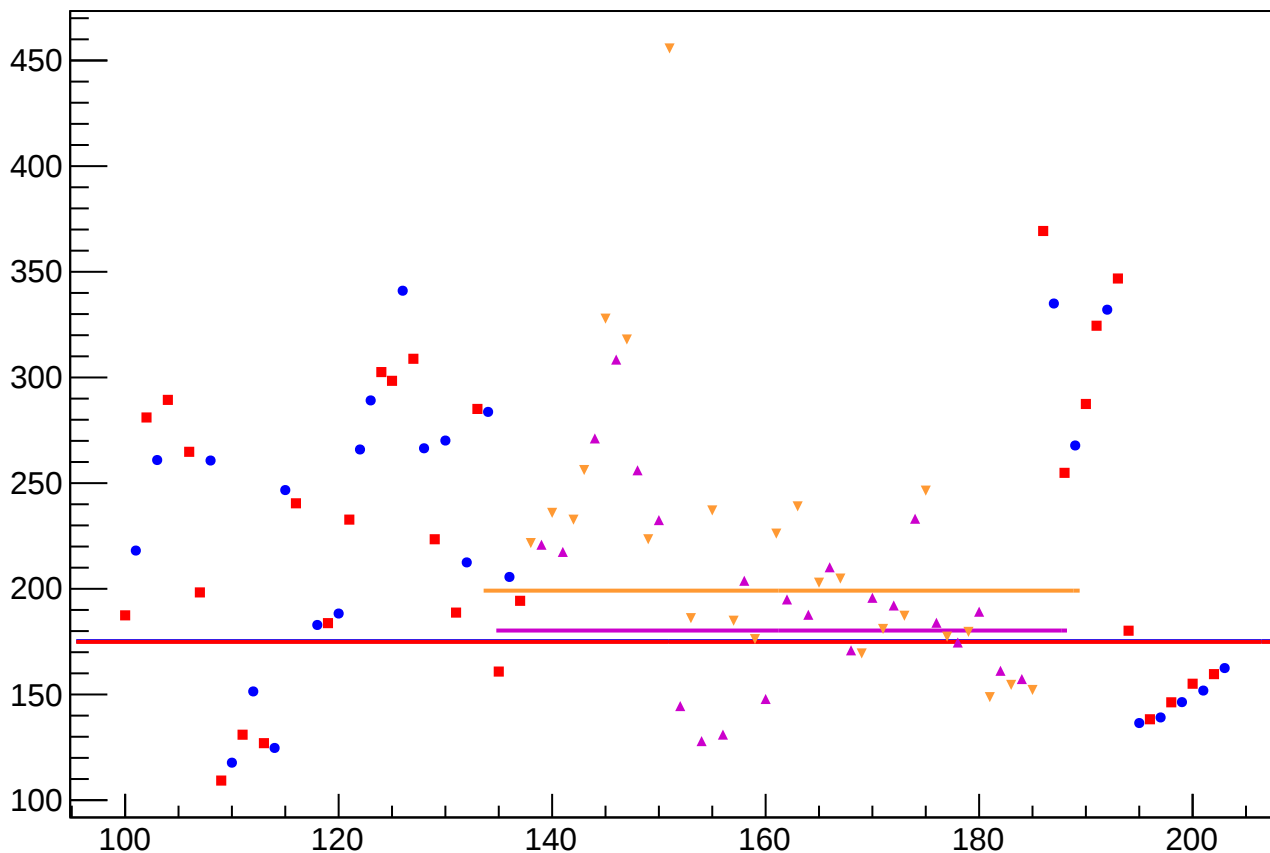
Right: -15.232 ± 36.777 χ^2/NDF : 25.0/53

In: 7.103 ± 34.377 χ^2/NDF : 22.1/47

Out: 5.948 ± 35.065 χ^2/NDF : 17.3/53

All: 6.537 ± 24.548 χ^2/NDF : 39.4/101

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 175.242 $\pm$ 0.037 χ^2/NDF : 2034844.9/24

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

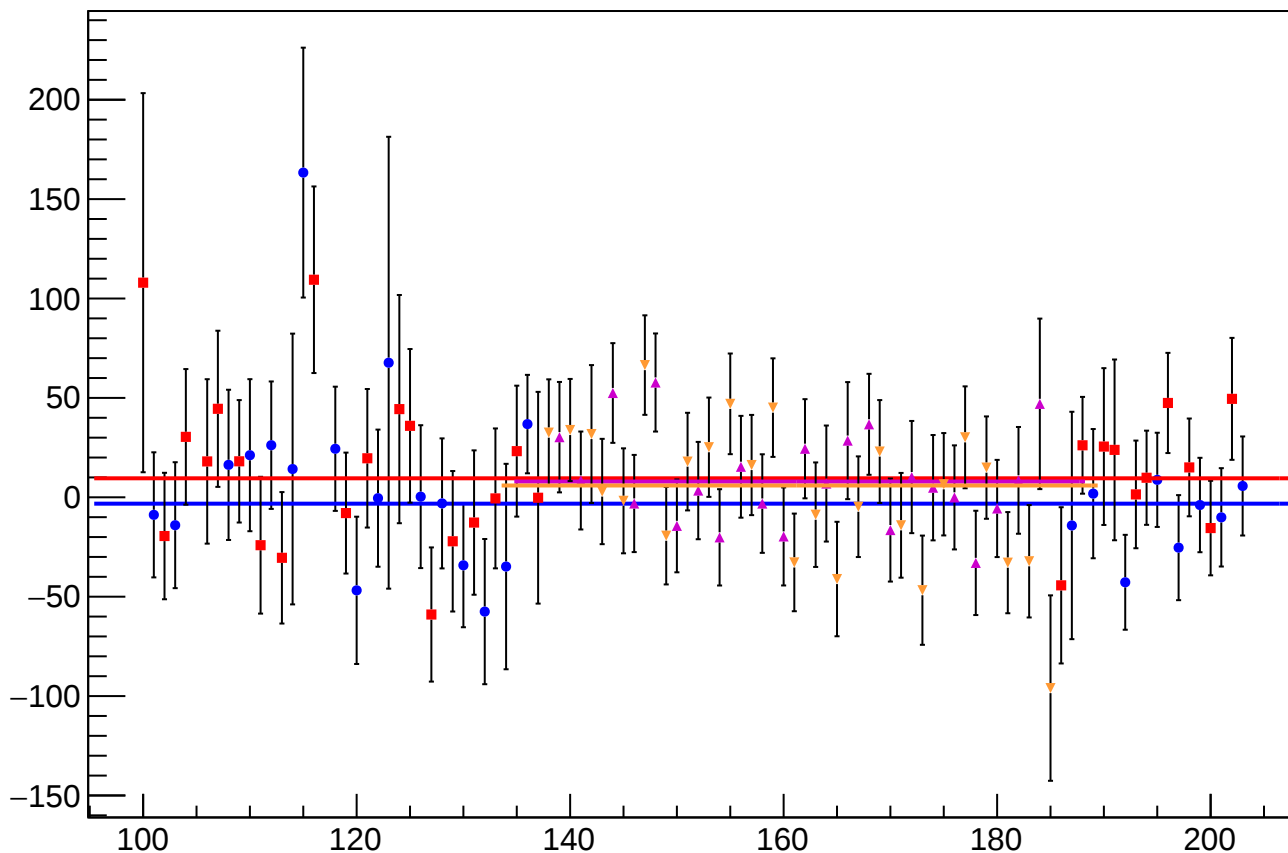
Right: 175.056 $\pm$ 0.026 χ^2/NDF : 4700704.2/53

In: 178.136 $\pm$ 0.024 χ^2/NDF : 3625782.2/47

Out: 187.755 $\pm$ 0.025 χ^2/NDF : 4664432.1/53

All: 182.851 $\pm$ 0.017 χ^2/NDF : 8366950.9/103

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -3.205 ± 6.423 $\chi^2/\text{NDF}: 21.5/24$

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 $\chi^2/\text{NDF}: 54.9/47$

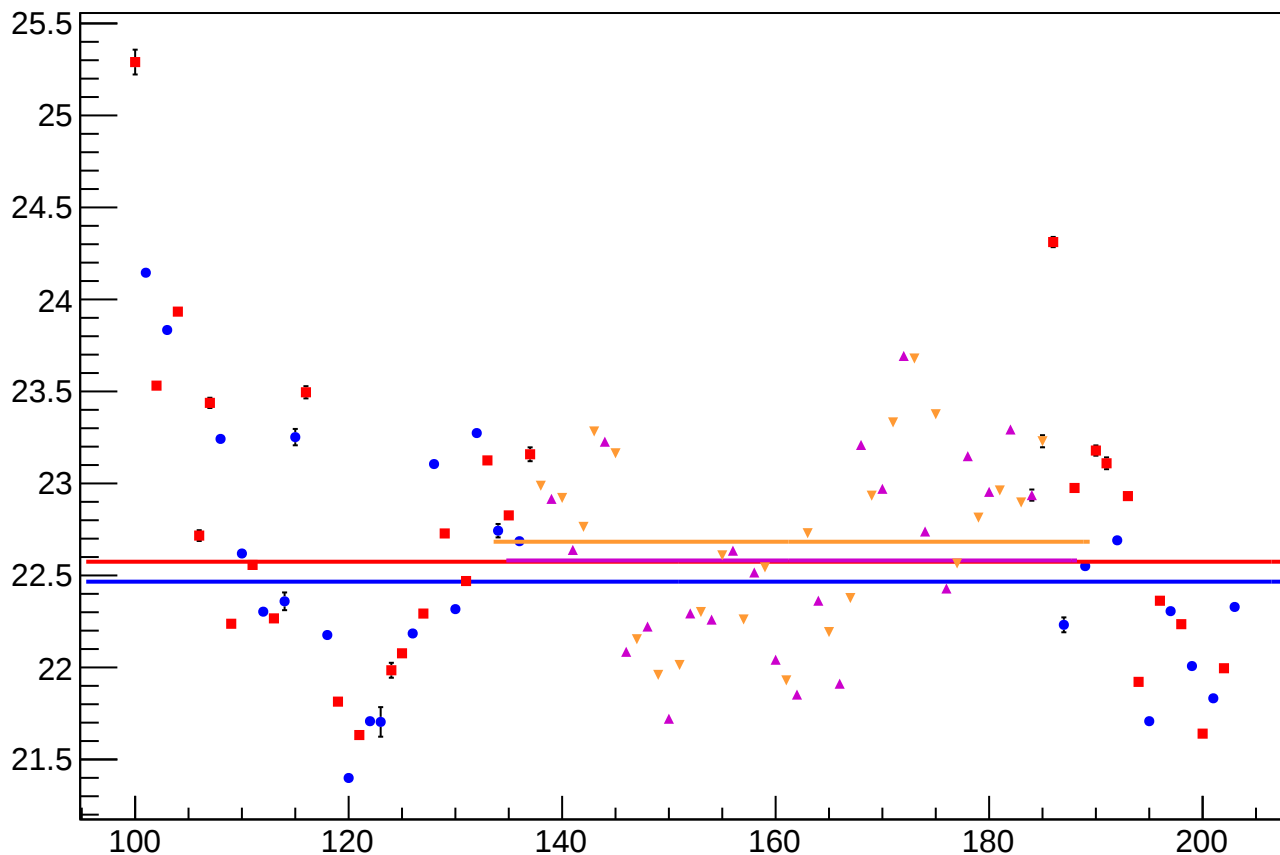
Right: 3.461 ± 4.439 $\chi^2/\text{NDF}: 48.3/53$

In: 3.289 ± 4.143 $\chi^2/\text{NDF}: 41.9/47$

Out: 7.476 ± 4.006 $\chi^2/\text{NDF}: 61.1/53$

All: 5.453 ± 2.880 $\chi^2/\text{NDF}: 103.6/101$

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.466 $\pm$ 0.005 χ^2 /NDF: 20146.4/24

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

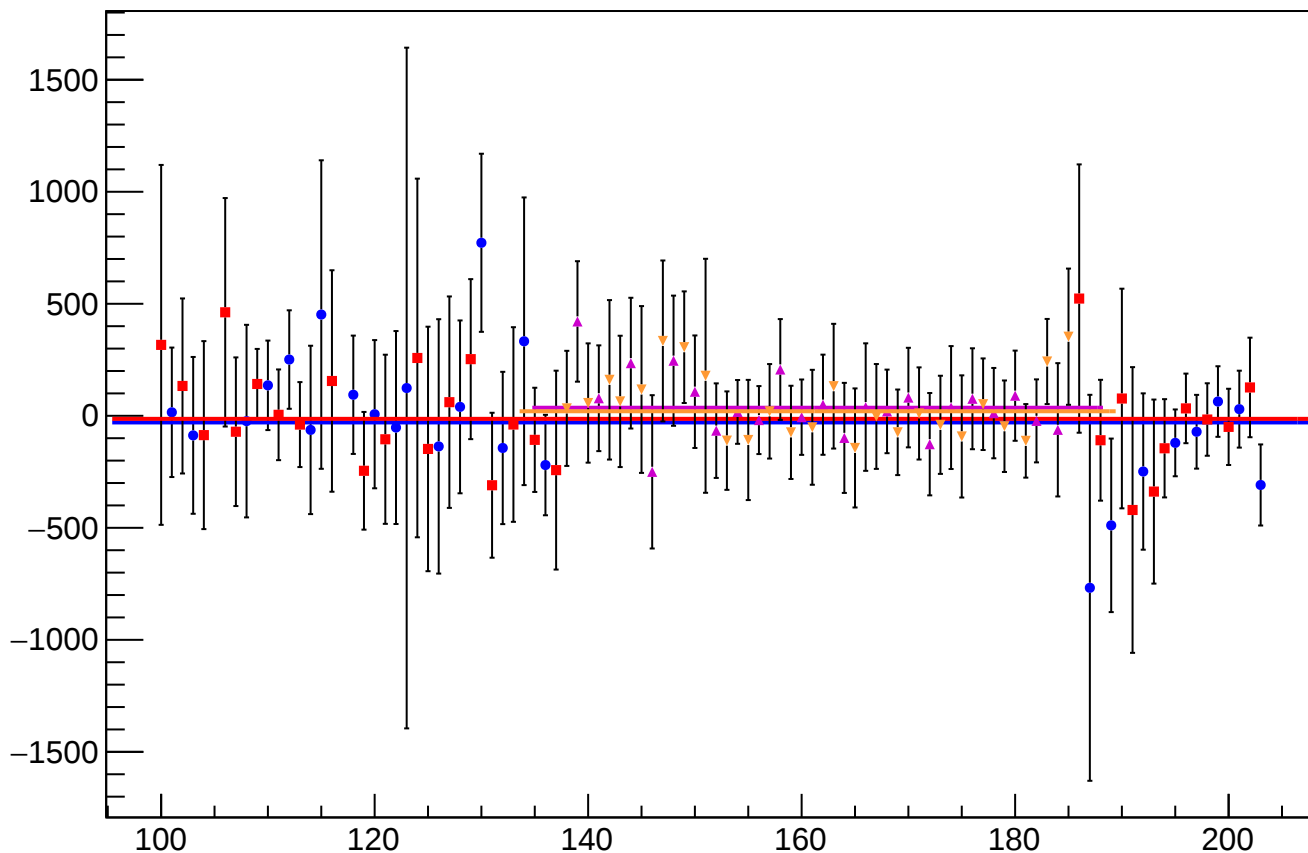
Right: 22.523 $\pm$ 0.003 χ^2 /NDF: 44903.7/53

In: 22.533 $\pm$ 0.003 χ^2 /NDF:38426.2/47

Out: 22.637 $\pm$ 0.003 χ^2 /NDF:41139.6/53

All: 22.587 $\pm$ 0.002 χ^2 /NDF: 80211.5/101

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -29.682 ± 52.719 $\chi^2/\text{NDF}: 14.2/24$

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 $\chi^2/\text{NDF}: 13.8/47$

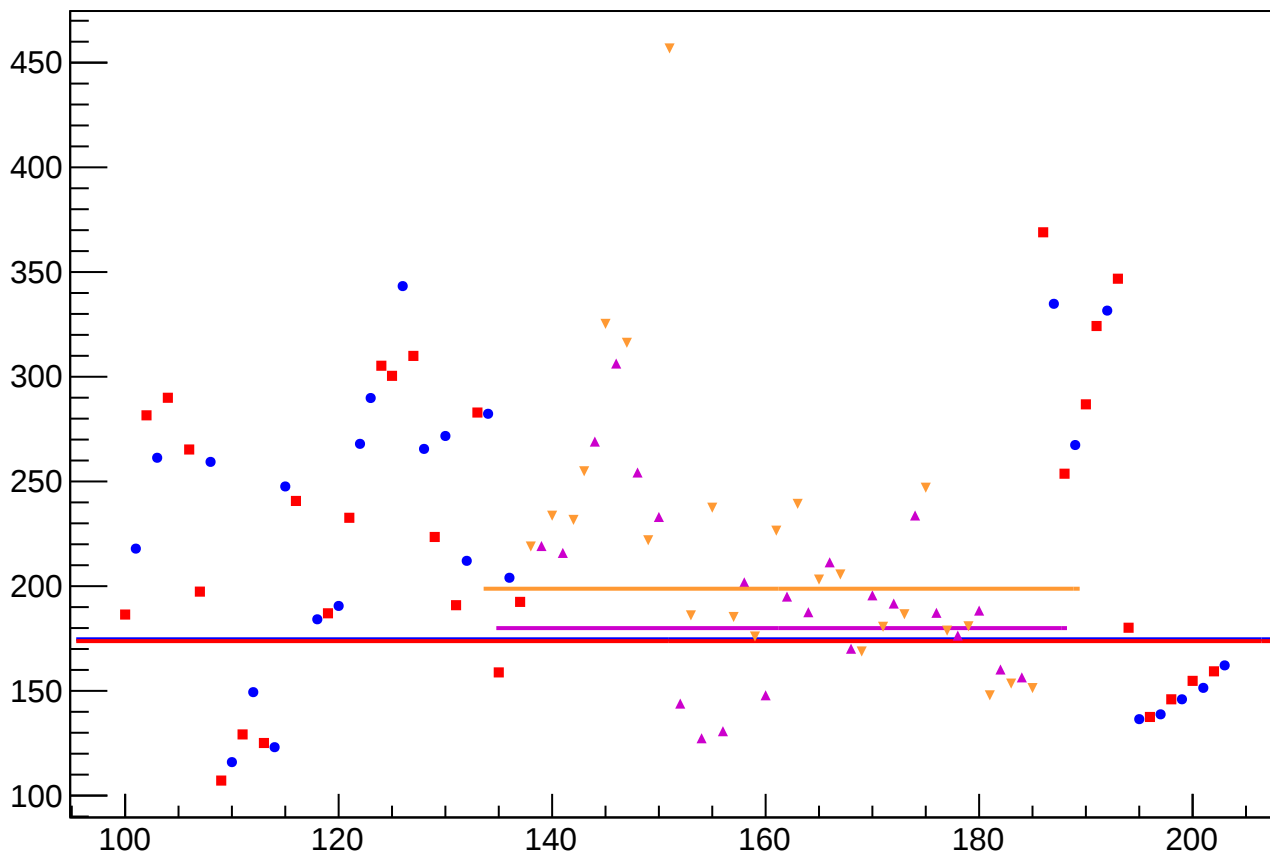
Right: -21.351 ± 36.633 $\chi^2/\text{NDF}: 22.4/53$

In: 8.185 ± 34.306 $\chi^2/\text{NDF}: 21.2/47$

Out: 4.355 ± 34.953 $\chi^2/\text{NDF}: 16.1/53$

All: 6.306 ± 24.484 $\chi^2/\text{NDF}: 37.2/101$

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 174.630 $\pm$ 0.037 χ^2 /NDF: 2065111.5/24

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

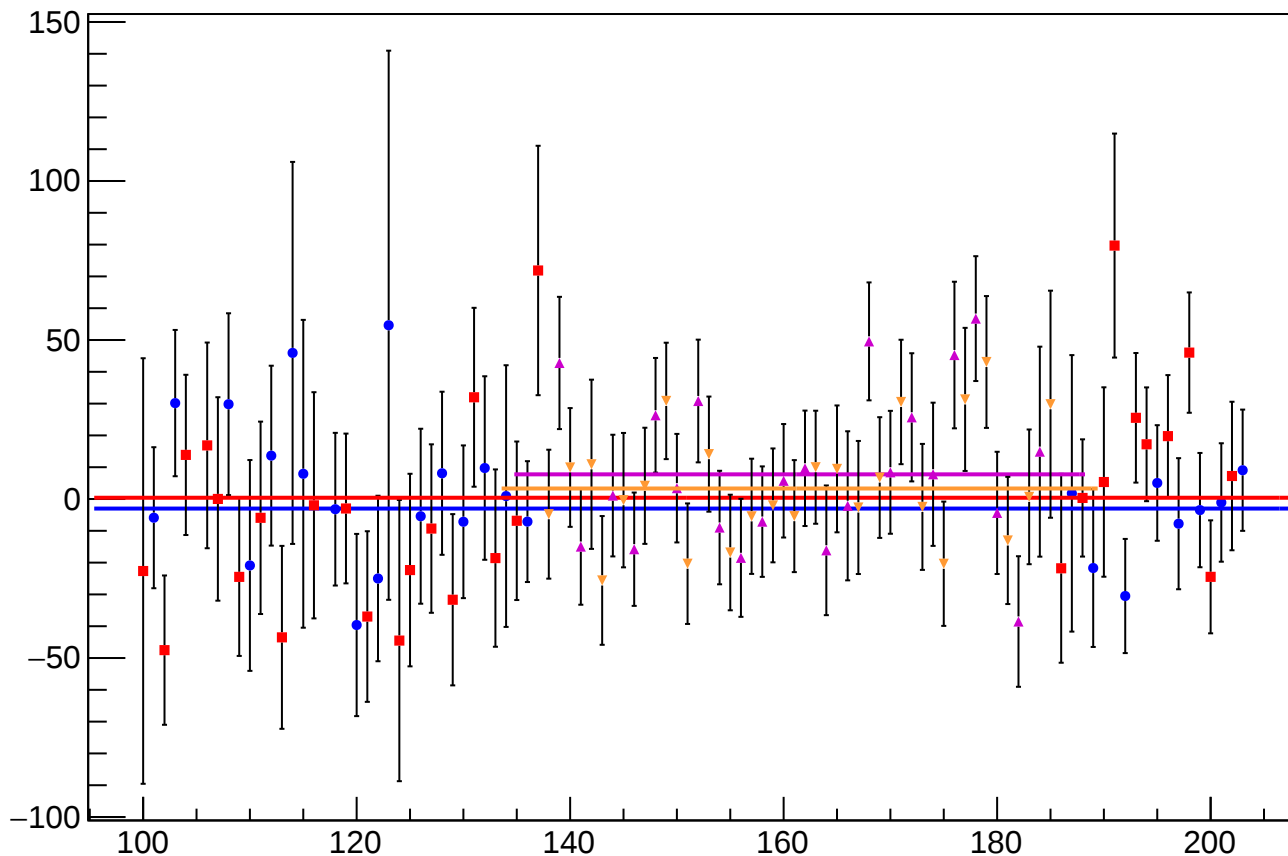
Right: 174.179 $\pm$ 0.026 χ^2 /NDF: 4802091.2/53

In: 177.710 $\pm$ 0.024 χ^2 /NDF:3652838.9/47

Out: 187.001 $\pm$ 0.025 χ^2 /NDF:4750633.0/53

All: 182.269 $\pm$ 0.017 χ^2 /NDF: 8475450.7/102

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -3.002 ± 4.934 χ^2/NDF : 11.6/24

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

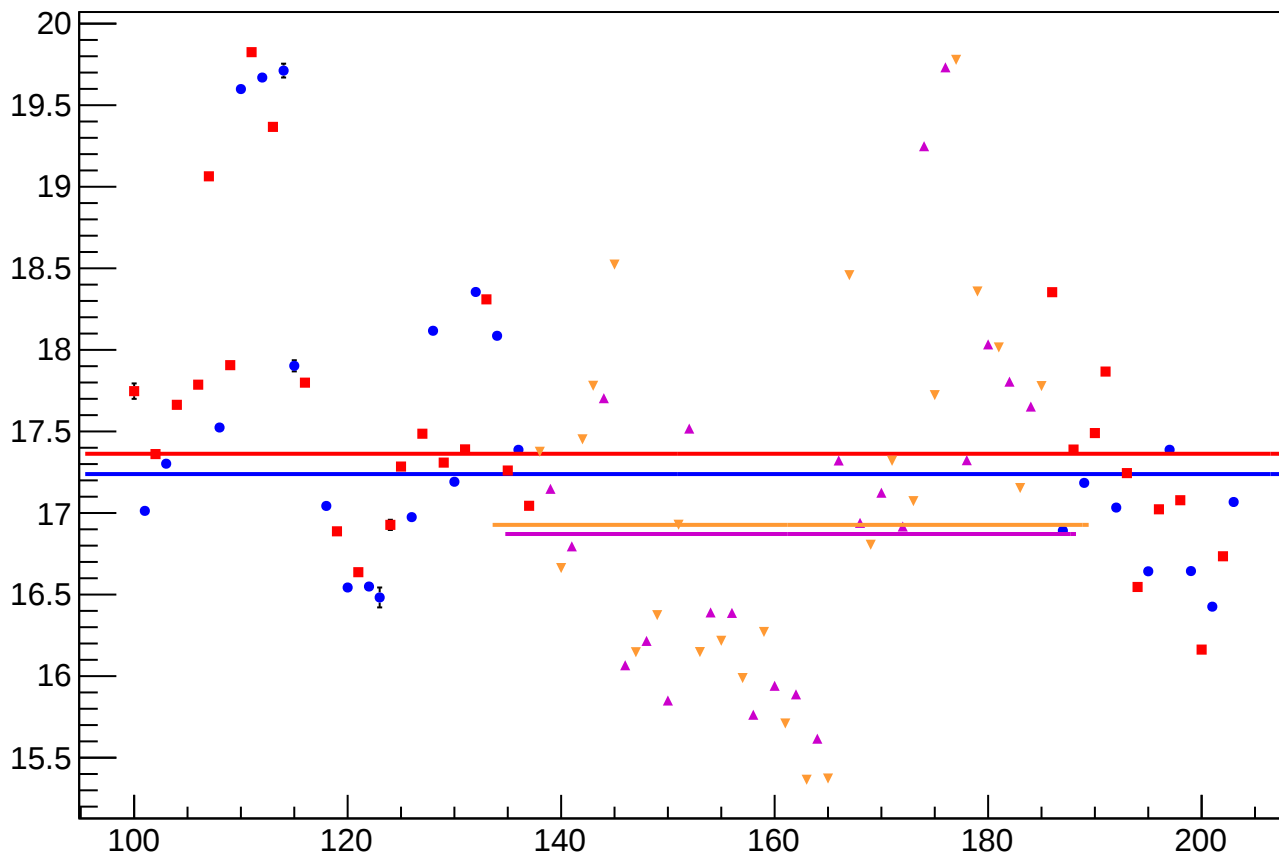
Right: -1.230 ± 3.414 χ^2/NDF : 47.3/53

In: 3.411 ± 3.135 χ^2/NDF : 48.7/47

Out: 2.111 ± 3.033 χ^2/NDF : 54.3/53

All: 2.739 ± 2.180 χ^2/NDF : 103.1/101

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 17.239 $\pm$ 0.003 χ^2 /NDF: 47290.9/24

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

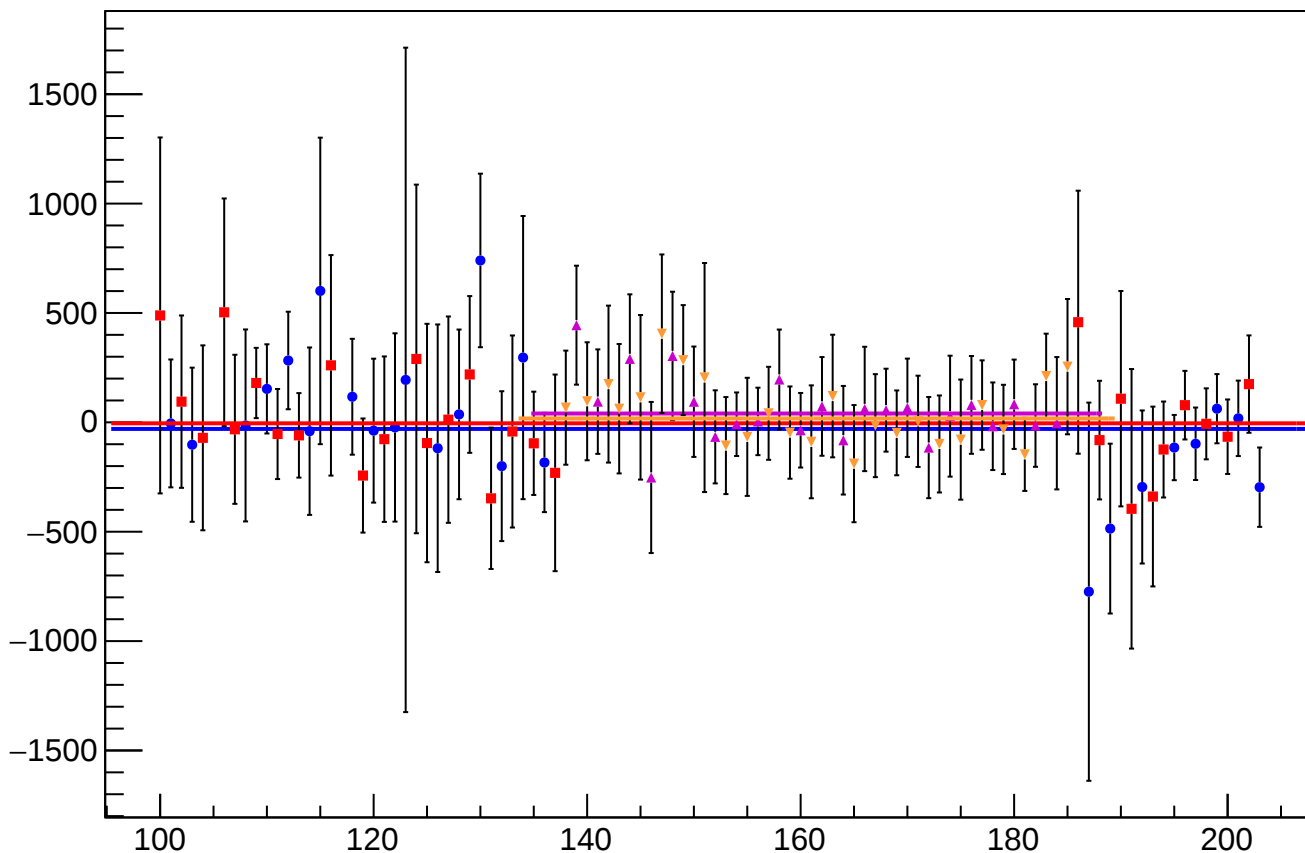
Right: 17.304 $\pm$ 0.002 χ^2 /NDF: 102095.0/53

In: 17.020 $\pm$ 0.002 χ^2 /NDF:171897.5/47

Out: 17.107 $\pm$ 0.002 χ^2 /NDF:202674.4/53

All: 17.065 $\pm$ 0.002 χ^2 /NDF: 375366.3/101

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -30.036 ± 53.051 χ^2/NDF : 14.5/24

Left Out: 17.828 ± 48.547 χ^2/NDF : 7.5/24

Right Out: -4.480 ± 51.401 χ^2/NDF : 9.2/28

Left In: 40.355 ± 45.689 χ^2/NDF : 6.6/22

Left: 29.774 ± 33.271 χ^2/NDF : 14.2/47

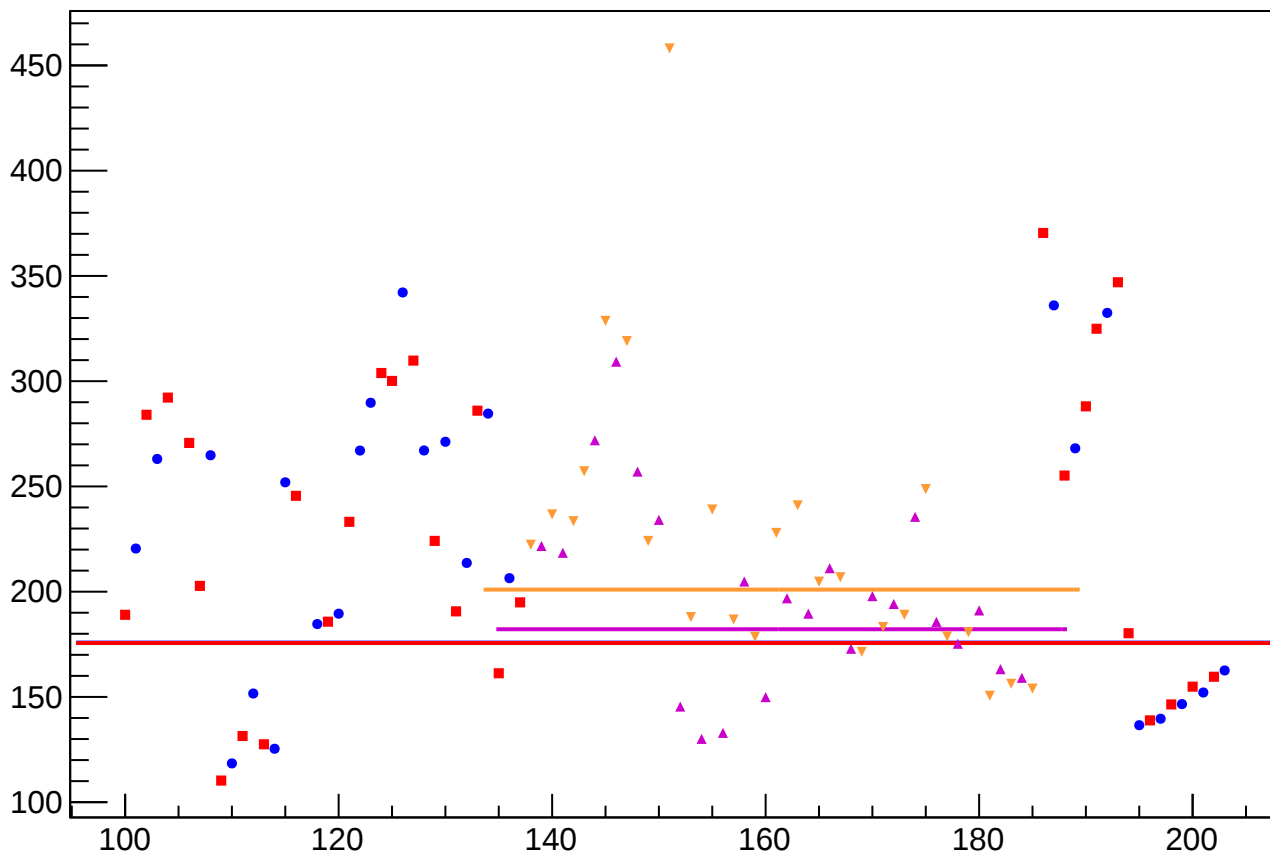
Right: -16.854 ± 36.916 χ^2/NDF : 23.9/53

In: 10.379 ± 34.620 χ^2/NDF : 22.2/47

Out: 7.311 ± 35.294 χ^2/NDF : 16.8/53

All: 8.874 ± 24.715 χ^2/NDF : 38.9/101

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 175.795+/-0.038 χ^2/NDF : 2048573.1/24

Left Out: 200.985+/-0.034 χ^2/NDF :1727291.4/24

Right Out: 175.608+/-0.036 χ^2/NDF : 2673858.3/28

Left In: 182.158+/-0.032 χ^2/NDF :1535922.8/22

Left: 191.001+/-0.024 χ^2/NDF : 3422724.8/47

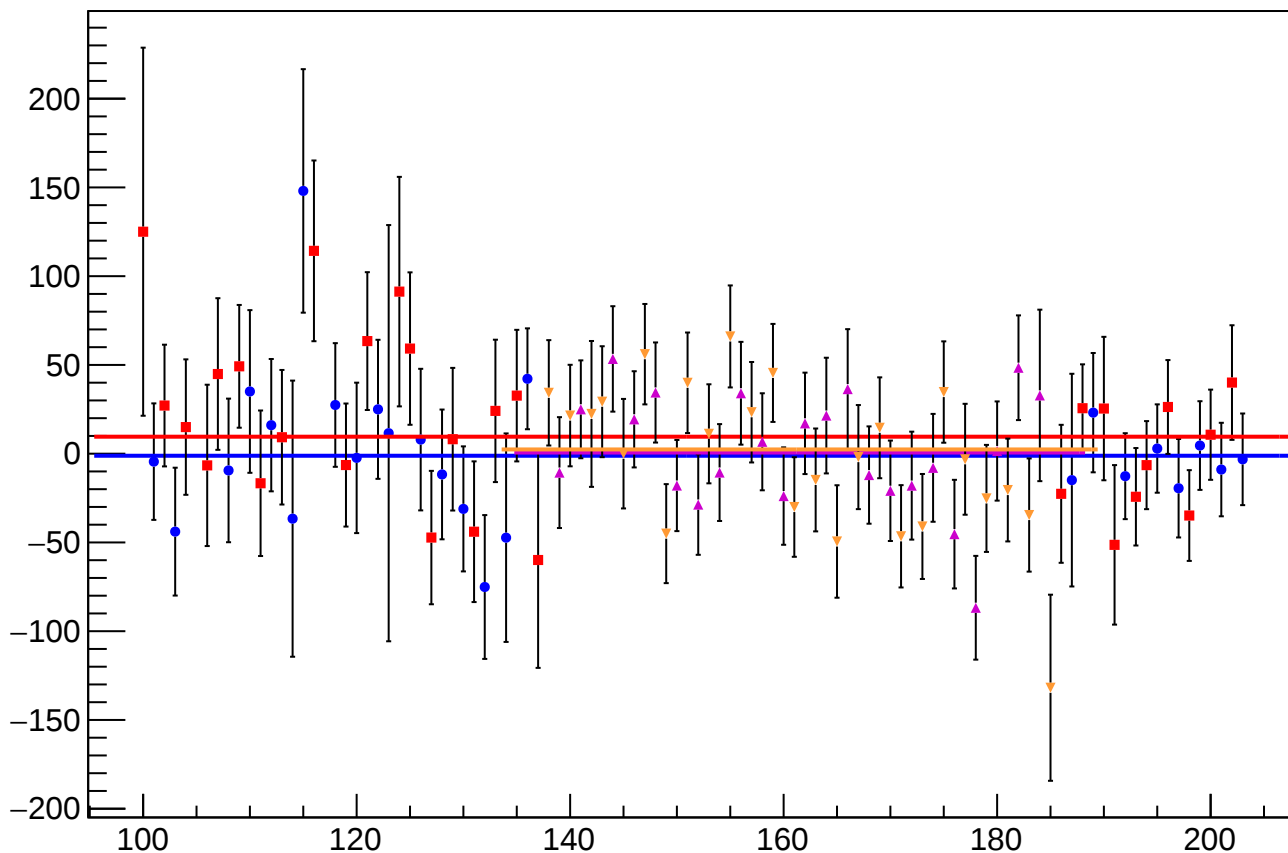
Right: 175.699+/-0.026 χ^2/NDF : 4722444.2/53

In: 179.448+/-0.024 χ^2/NDF :3601015.6/47

Out: 189.021+/-0.025 χ^2/NDF :4658799.0/53

All: 184.142+/-0.017 χ^2/NDF : 8334793.4/103

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -1.160 ± 6.960 $\chi^2/\text{NDF}: 16.9/24$

Left Out: 2.390 ± 5.980 $\chi^2/\text{NDF}: 39.1/24$

Right Out: 9.573 ± 6.613 $\chi^2/\text{NDF}: 28.6/28$

Left In: 0.641 ± 6.091 $\chi^2/\text{NDF}: 27.3/22$

Left: 1.531 ± 4.267 $\chi^2/\text{NDF}: 66.5/47$

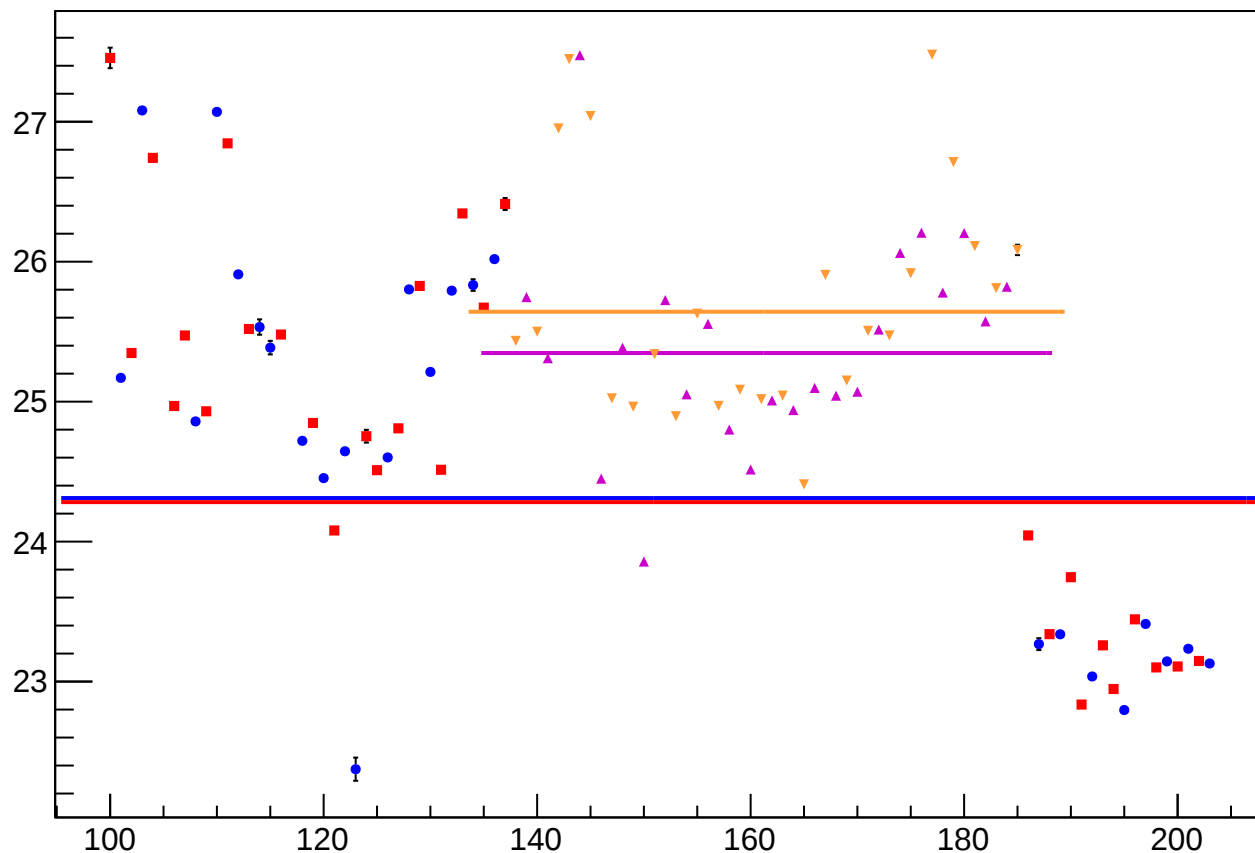
Right: 4.481 ± 4.794 $\chi^2/\text{NDF}: 46.8/53$

In: -0.140 ± 4.584 $\chi^2/\text{NDF}: 44.3/47$

Out: 5.621 ± 4.435 $\chi^2/\text{NDF}: 68.4/53$

All: 2.835 ± 3.187 $\chi^2/\text{NDF}: 113.5/101$

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 24.311 $\pm$ 0.005 χ^2 /NDF: 71690.8/24

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

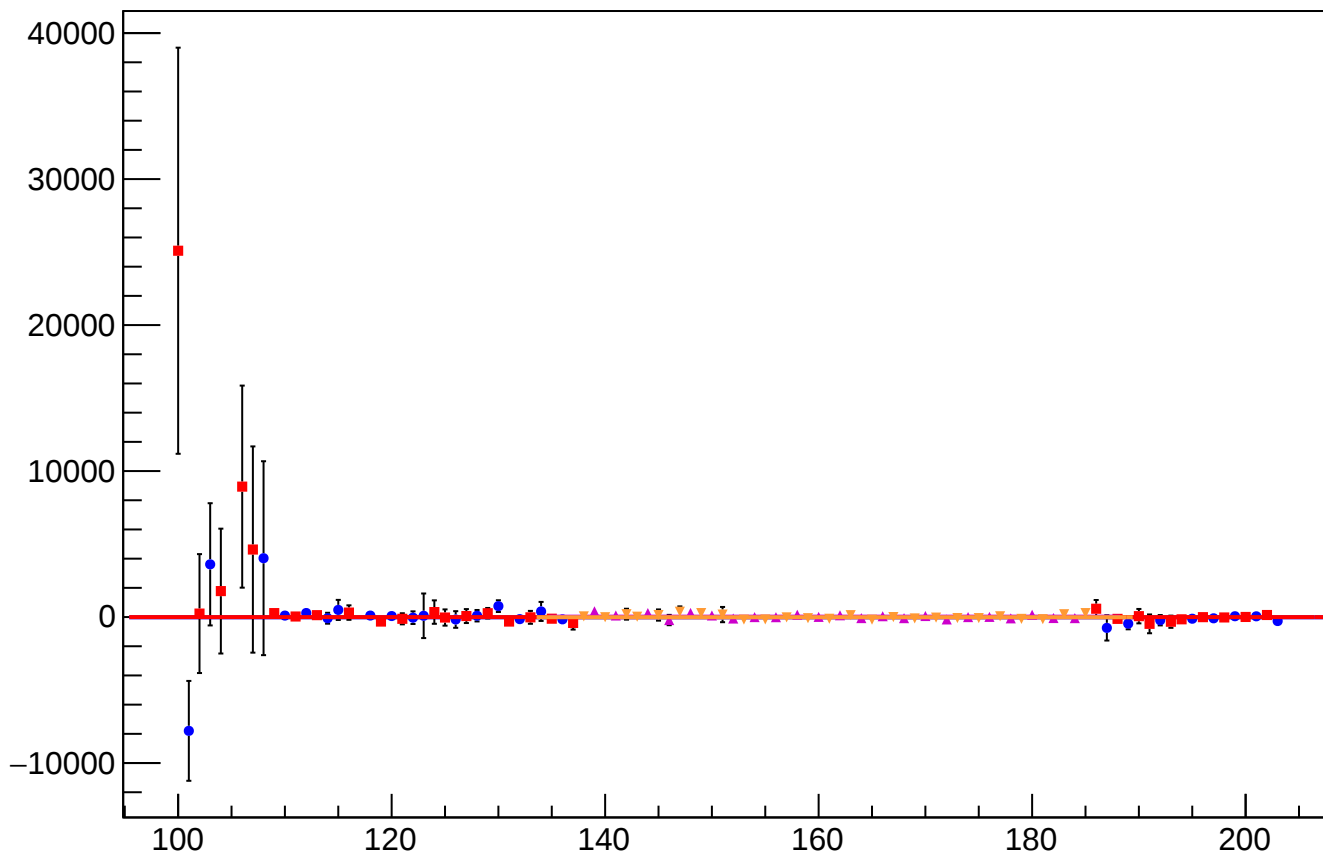
Right: 24.296 $\pm$ 0.003 χ^2 /NDF: 139335.4/53

In: 24.898 $\pm$ 0.003 χ^2 /NDF:126185.2/47

Out: 25.030 $\pm$ 0.003 χ^2 /NDF:148979.1/53

All: 24.966 $\pm$ 0.002 χ^2 /NDF: 276026.0/101

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -18.250+/-56.021 χ^2/NDF : 19.0/24

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

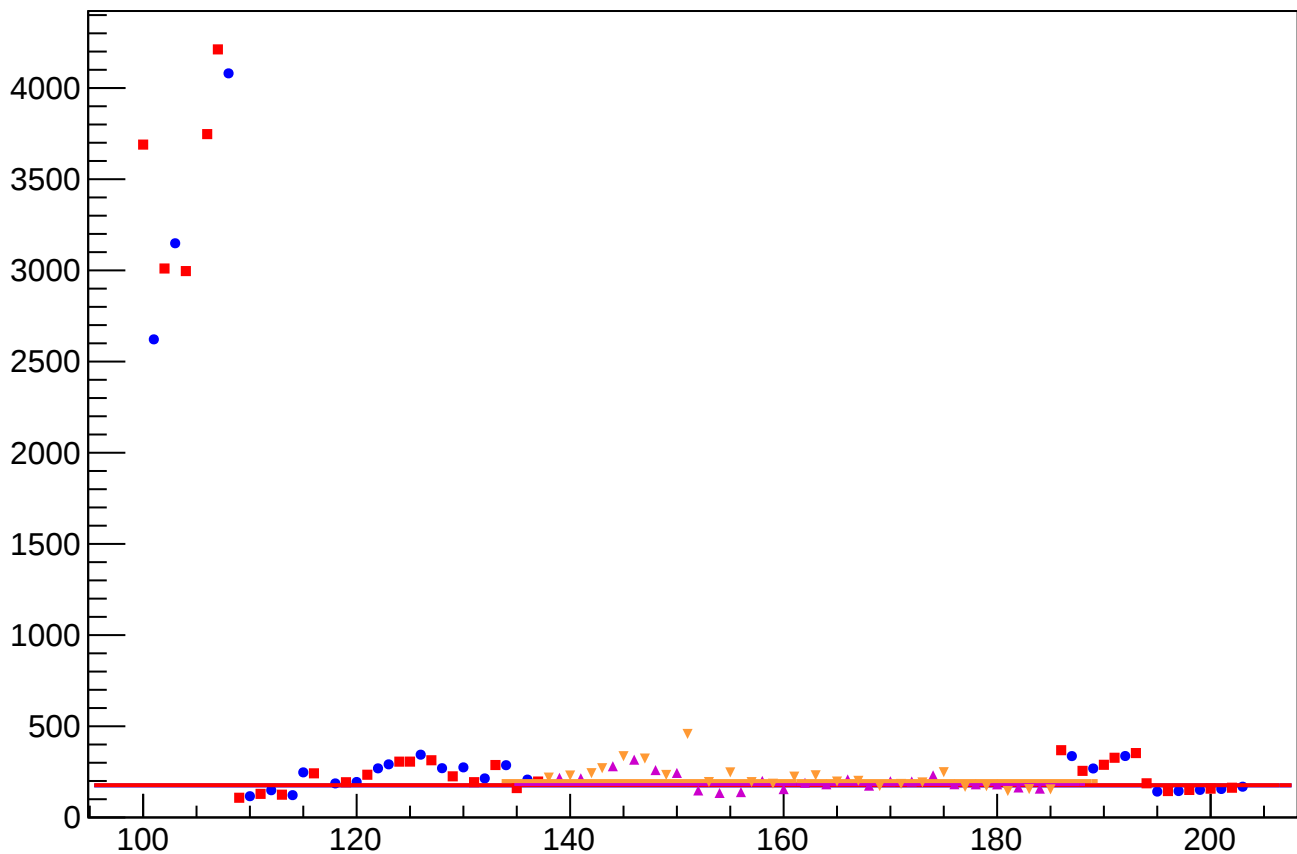
Right: -10.986+/-39.371 χ^2/NDF : 34.1/53

In: 8.836+/-35.550 χ^2/NDF : 26.5/47

Out: -8.177+/-36.375 χ^2/NDF : 23.2/53

All: 0.525+/-25.424 χ^2/NDF : 49.8/101

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 175.494 $\pm$ 0.040 χ^2 /NDF: 4467821.7/24

Left Out: 199.438 $\pm$ 0.034 χ^2 /NDF: 1877848.7/24

Right Out: 176.949 $\pm$ 0.039 χ^2 /NDF: 5307354.4/28

Left In: 183.805 $\pm$ 0.033 χ^2 /NDF: 1412869.6/22

Left: 191.246 $\pm$ 0.024 χ^2 /NDF: 3400676.1/47

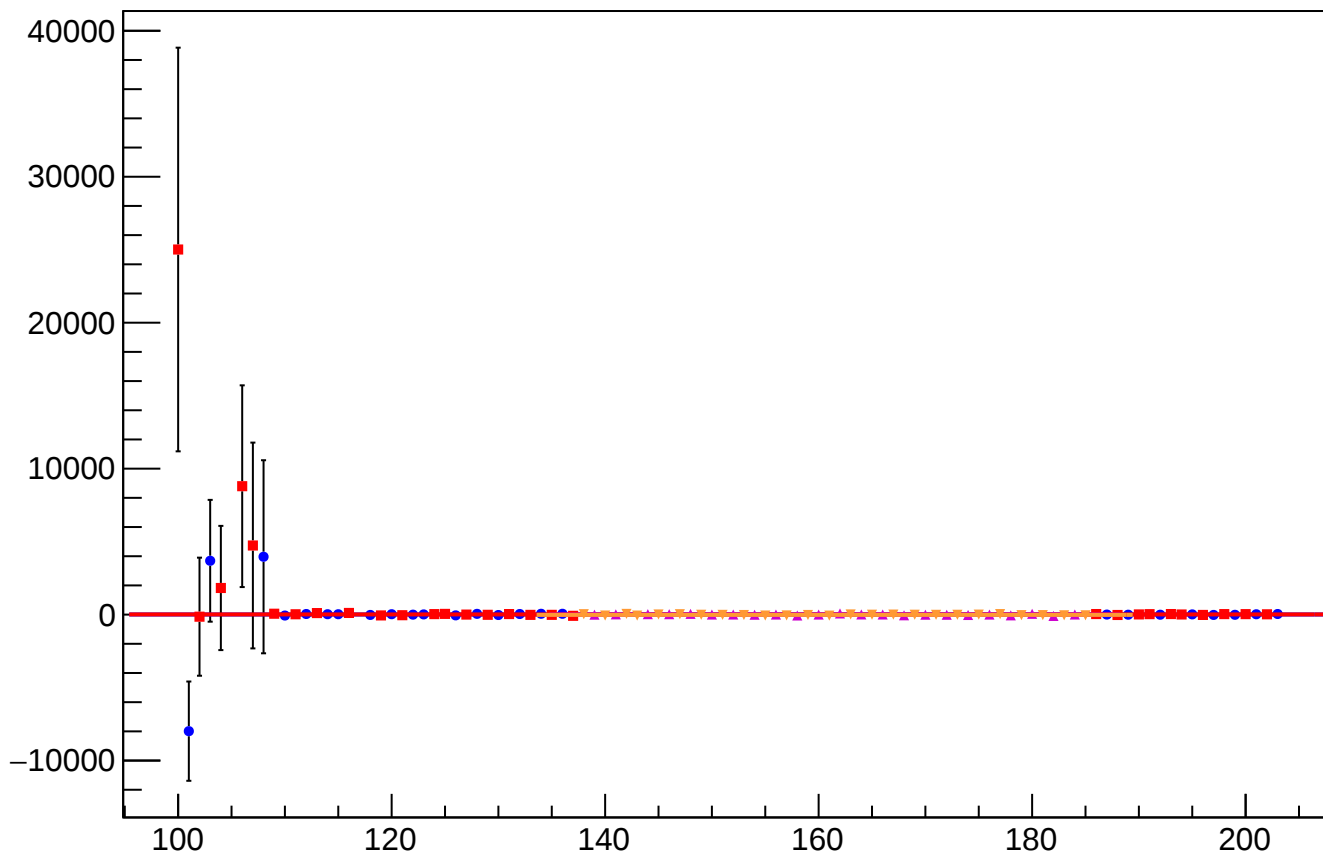
Right: 176.230 $\pm$ 0.028 χ^2 /NDF: 9775858.3/53

In: 180.458 $\pm$ 0.025 χ^2 /NDF: 5906982.2/47

Out: 189.723 $\pm$ 0.026 χ^2 /NDF: 7372794.7/53

All: 184.985 $\pm$ 0.018 χ^2 /NDF: 13346141.3/100

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 7.995 $\pm$ 8.448 χ^2 /NDF: 21.5/24

Left Out: -18.118 $\pm$ 6.704 χ^2 /NDF:21.7/24

Right Out: 13.093 $\pm$ 8.167 χ^2 /NDF: 28.7/28

Left In: 1.267 $\pm$ 6.908 χ^2 /NDF:32.0/22

Left: -8.716 $\pm$ 4.811 χ^2 /NDF: 57.8/47

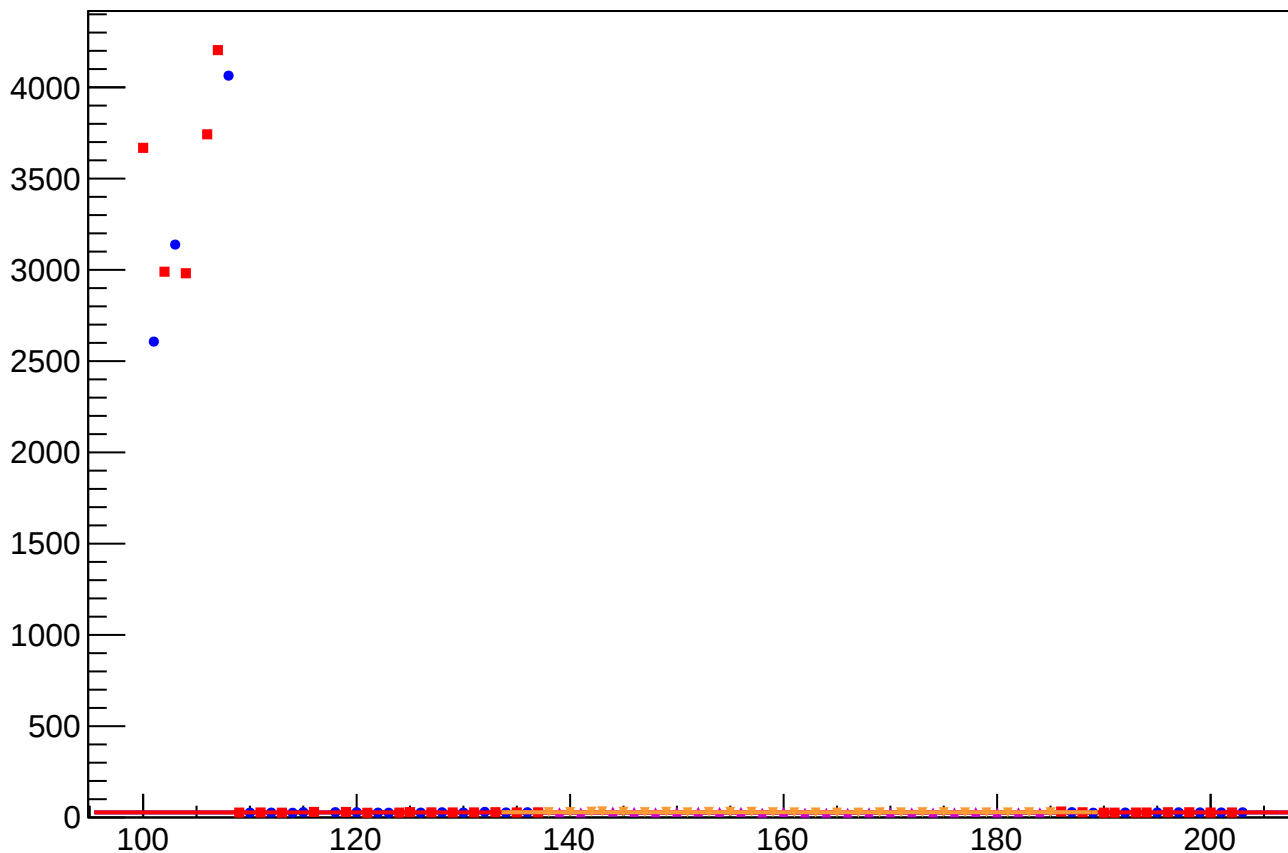
Right: 10.630 $\pm$ 5.872 χ^2 /NDF: 50.4/53

In: 3.963 $\pm$ 5.348 χ^2 /NDF:53.9/47

Out: -5.554 $\pm$ 5.182 χ^2 /NDF:59.2/53

All: -0.946 $\pm$ 3.721 χ^2 /NDF: 114.7/101

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 27.652 $\pm$ 0.006 χ^2 /NDF: 3035001.3/24

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

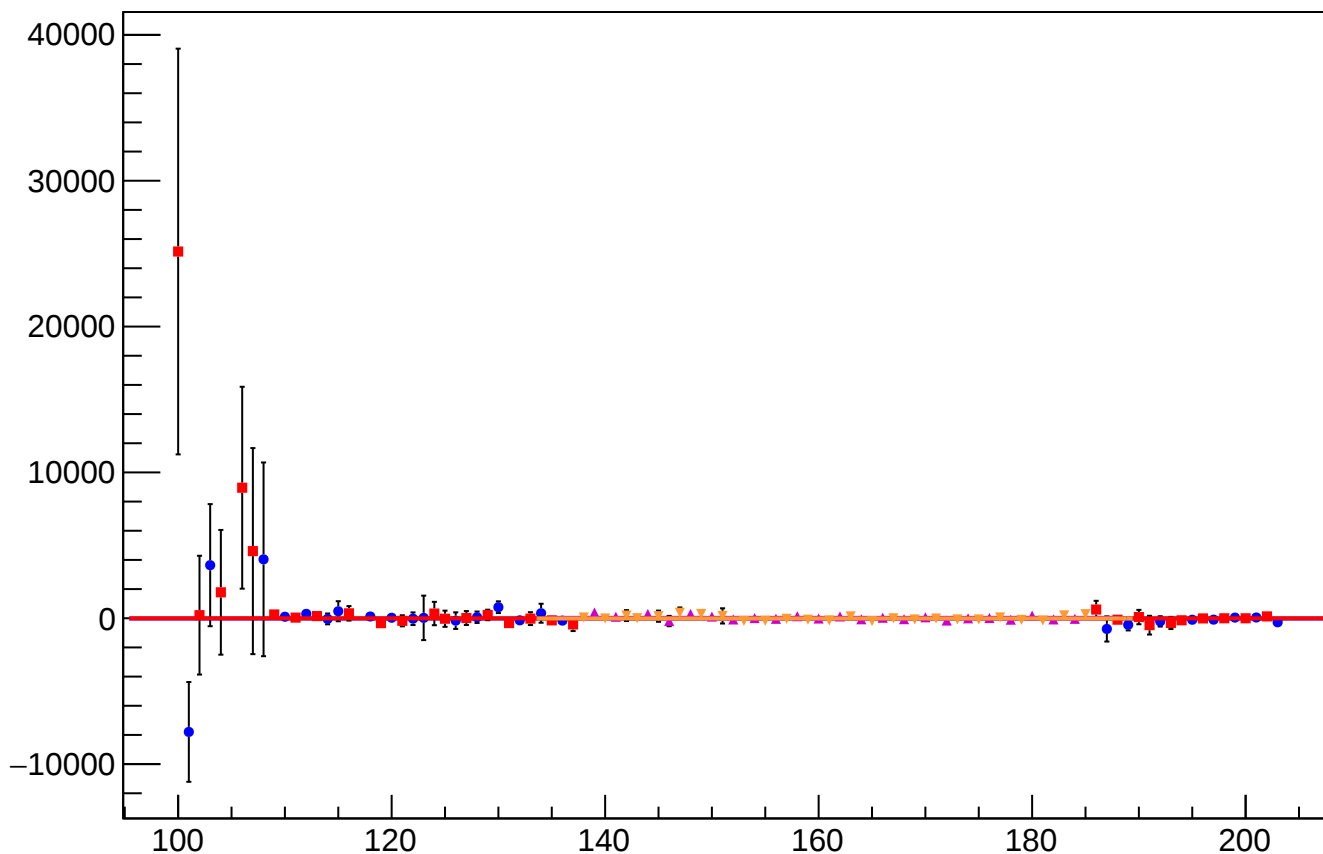
Right: 27.651 $\pm$ 0.004 χ^2 /NDF: 6537502.7/53

In: 28.266 $\pm$ 0.004 χ^2 /NDF: 3176440.1/47

Out: 28.273 $\pm$ 0.004 χ^2 /NDF: 3632520.1/53

All: 28.270 $\pm$ 0.003 χ^2 /NDF: 6808961.9/101

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -16.808 $\pm$ 55.842 χ^2 /NDF: 19.2/24

Left Out: -13.878 $\pm$ 48.155 χ^2 /NDF: 8.8/24

Right Out: -5.179 $\pm$ 55.187 χ^2 /NDF: 15.8/28

Left In: 27.286 $\pm$ 45.907 χ^2 /NDF: 7.5/22

Left: 7.688 $\pm$ 33.228 χ^2 /NDF: 16.7/47

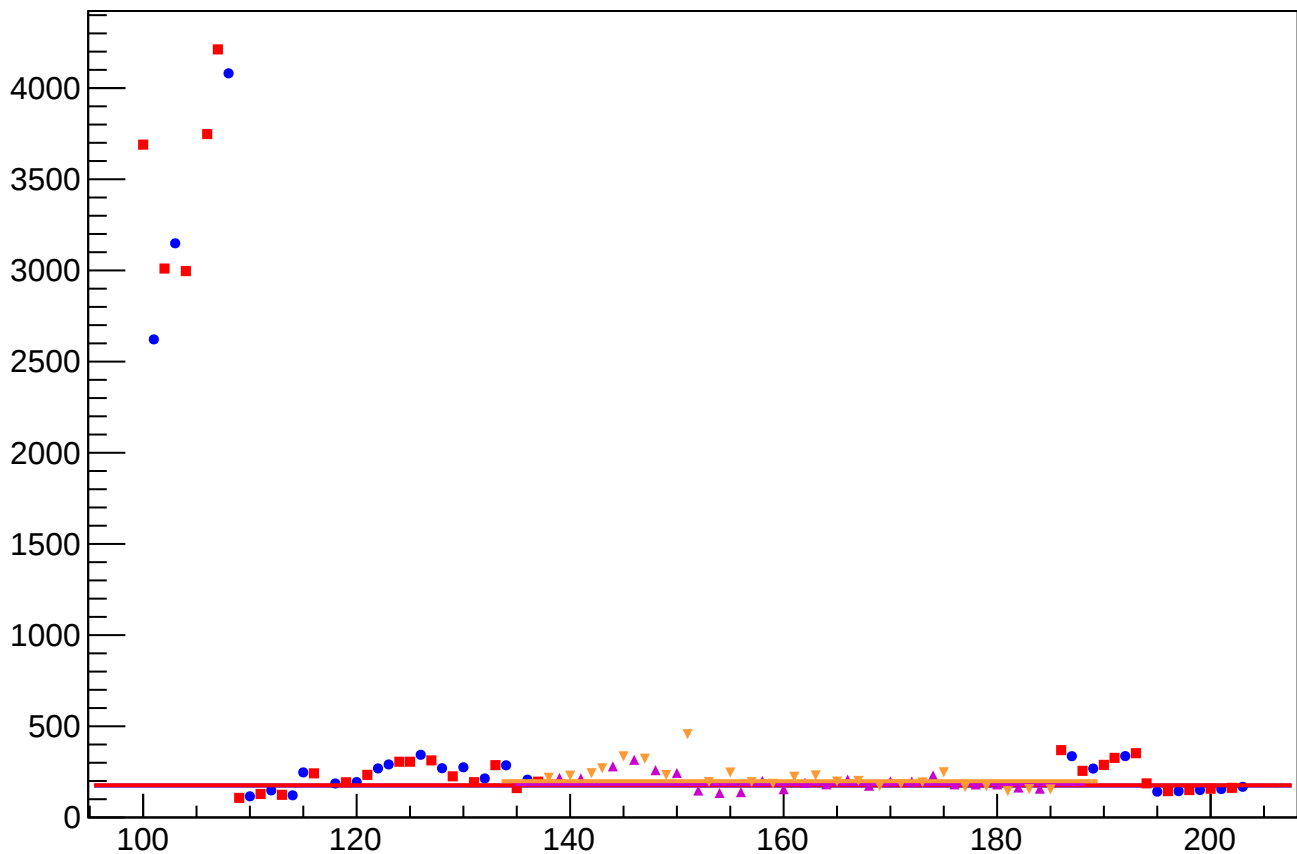
Right: -10.925 $\pm$ 39.253 χ^2 /NDF: 35.0/53

In: 9.504 $\pm$ 35.462 χ^2 /NDF: 27.1/47

Out: -10.118 $\pm$ 36.284 χ^2 /NDF: 24.6/53

All: -0.082 $\pm$ 25.361 χ^2 /NDF: 51.8/101

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 174.875 $\pm$ 0.039 χ^2 /NDF: 4481345.0/24

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

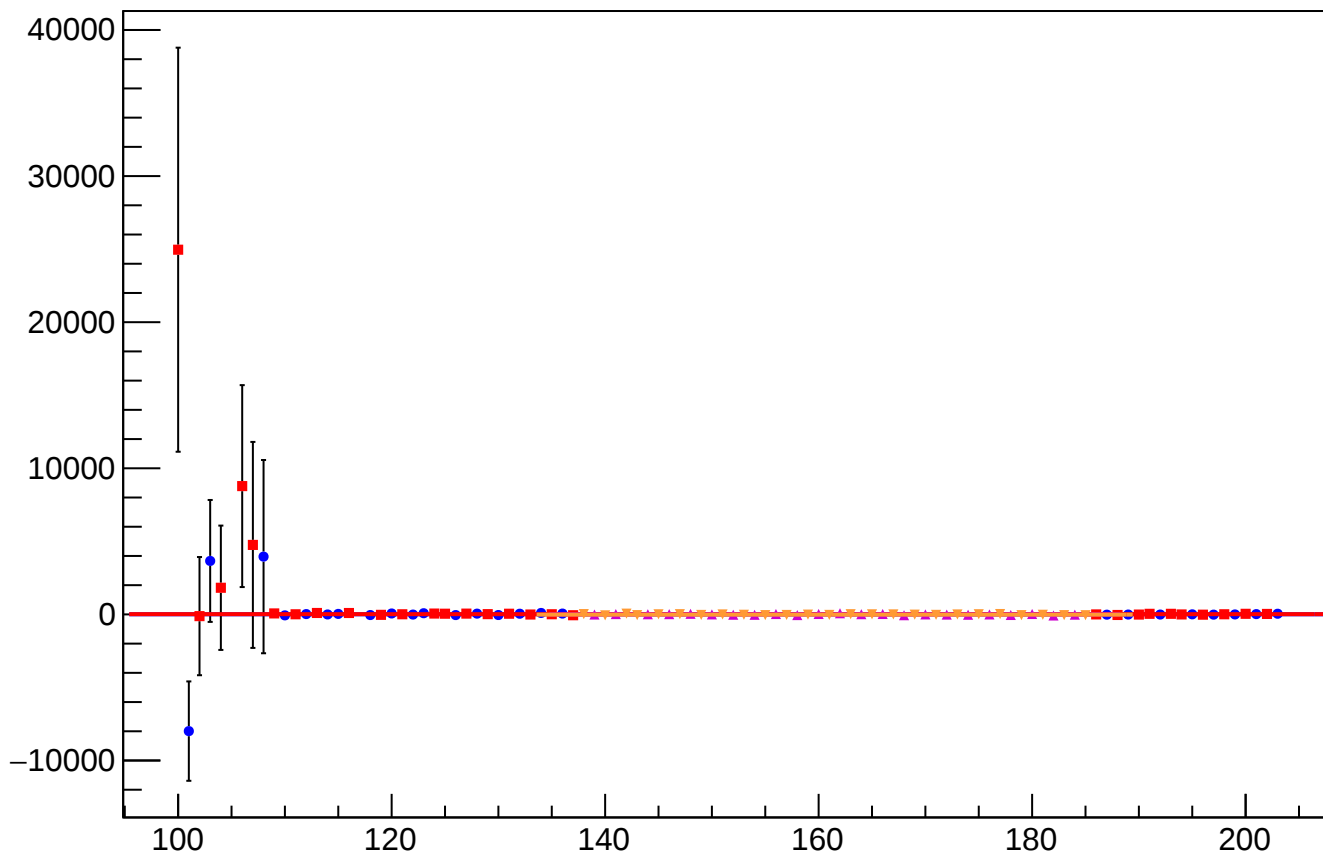
Right: 175.634 $\pm$ 0.028 χ^2 /NDF: 9806931.2/53

In: 179.987 $\pm$ 0.025 χ^2 /NDF:5921772.3/47

Out: 189.218 $\pm$ 0.026 χ^2 /NDF:7393271.4/53

All: 184.497 $\pm$ 0.018 χ^2 /NDF: 13381252.3/100

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 6.626+/-8.441 χ^2/NDF : 25.5/24

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

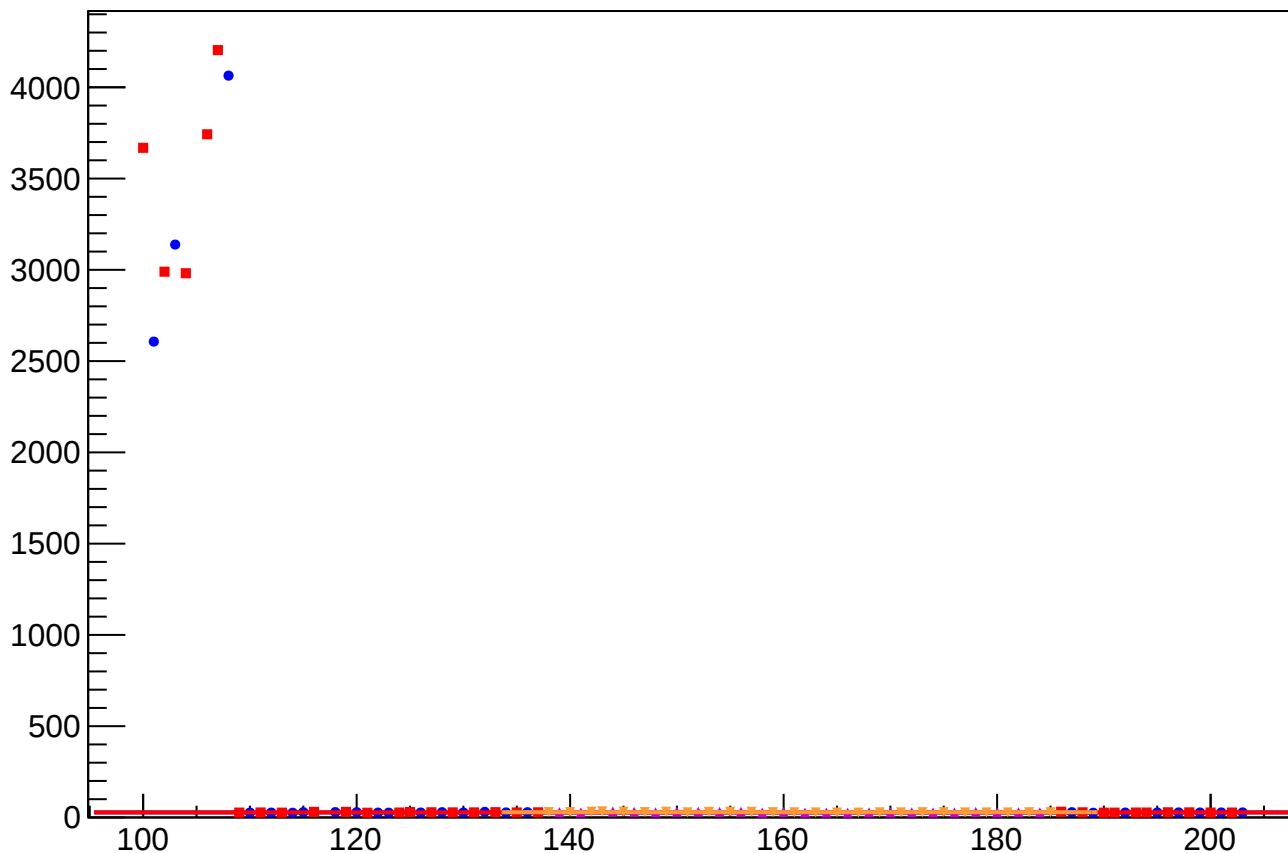
Right: 11.715+/-5.871 χ^2/NDF : 50.7/53

In: 2.374+/-5.359 χ^2/NDF :52.0/47

Out: -2.763+/-5.197 χ^2/NDF :50.3/53

All: -0.274+/-3.731 χ^2/NDF : 102.8/101

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 27.626 $\pm$ 0.006 χ^2 /NDF: 3036574.1/24

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

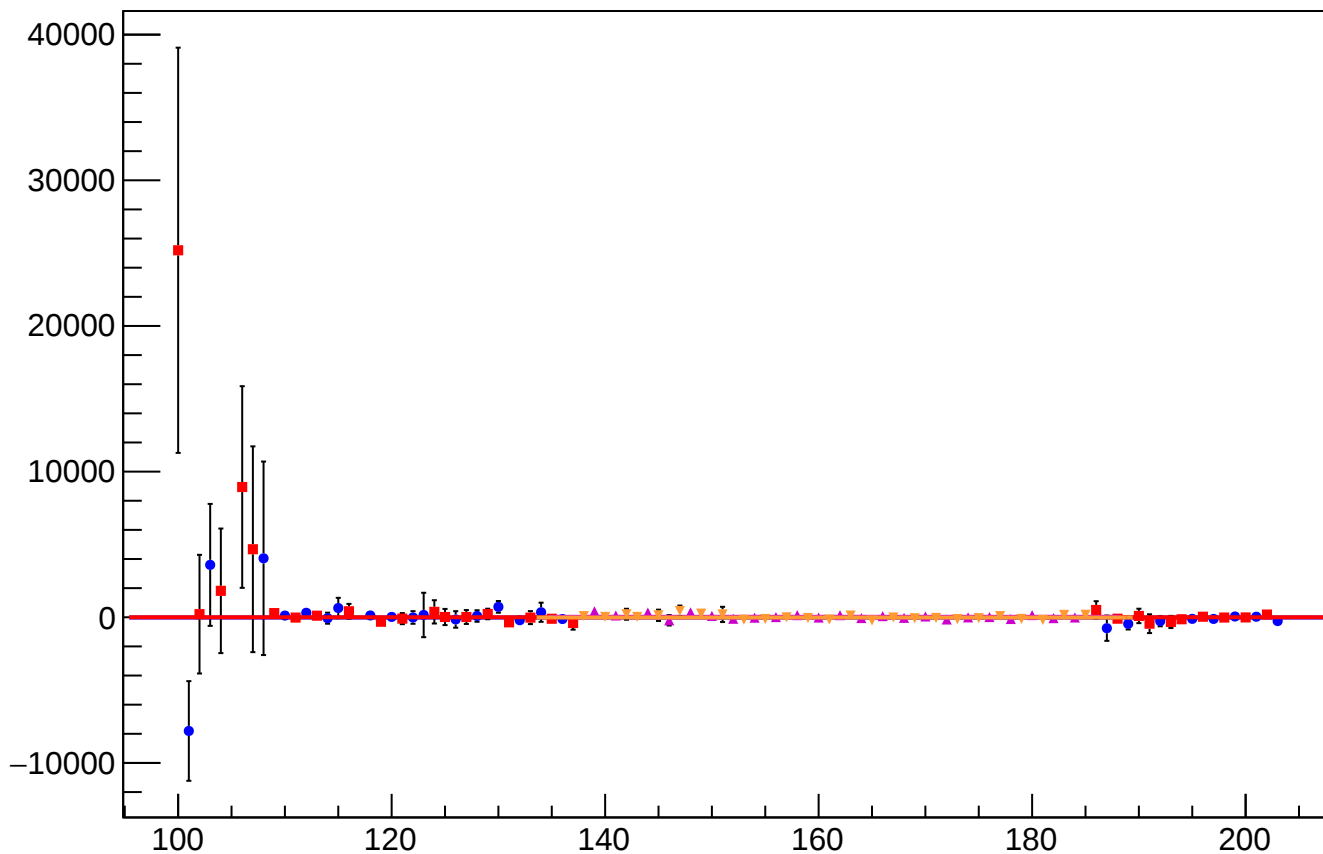
Right: 27.646 $\pm$ 0.004 χ^2 /NDF: 6537315.5/53

In: 28.325 $\pm$ 0.004 χ^2 /NDF: 3187839.3/47

Out: 28.350 $\pm$ 0.004 χ^2 /NDF: 3646408.0/53

All: 28.338 $\pm$ 0.003 χ^2 /NDF: 6834269.1/101

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -17.270+/-56.257 χ^2/NDF : 19.4/24

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

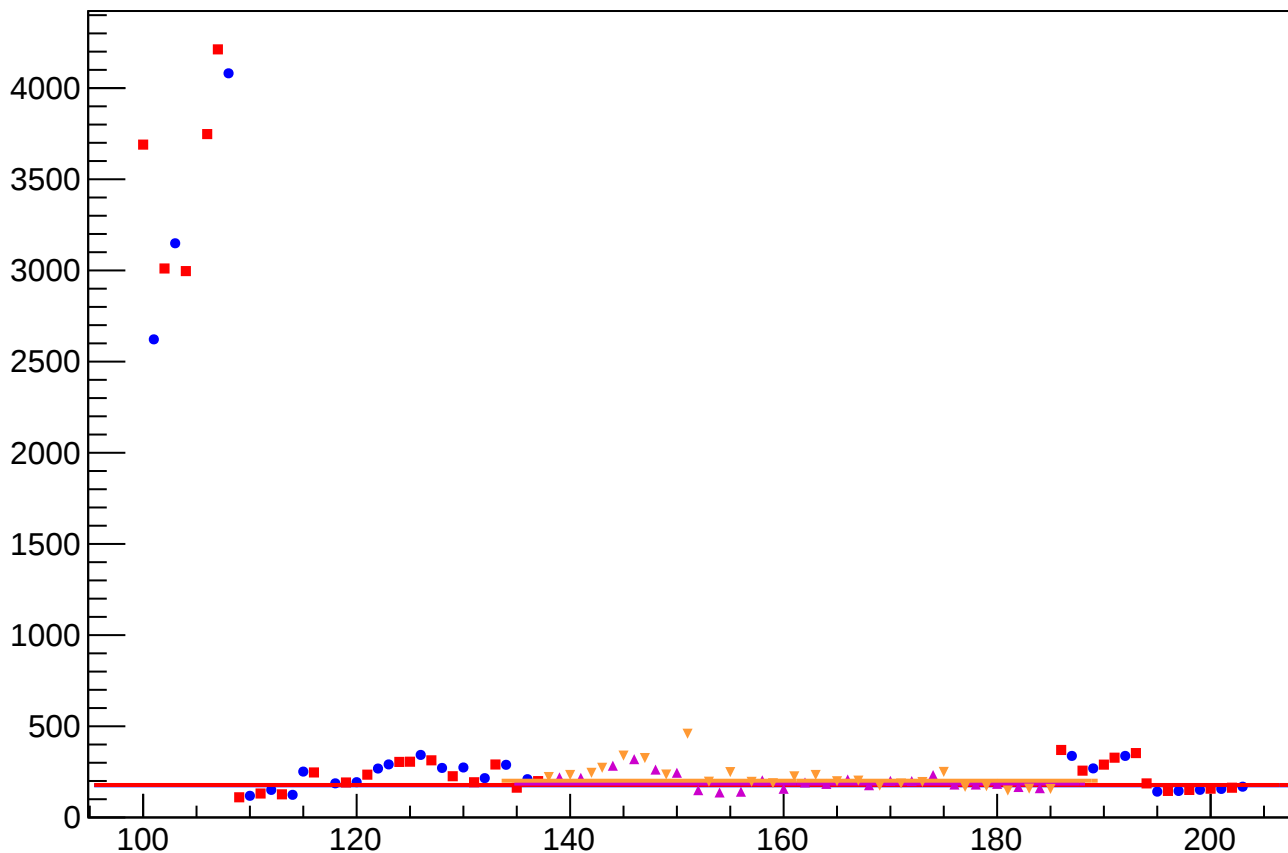
Right: -8.230+/-39.563 χ^2/NDF : 34.7/53

In: 11.700+/-35.834 χ^2/NDF : 27.6/47

Out: -7.636+/-36.663 χ^2/NDF : 23.5/53

All: 2.253+/-25.626 χ^2/NDF : 51.3/101

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 176.317 $\pm$ 0.040 χ^2 /NDF: 4448057.8/24

Left Out: 201.503 $\pm$ 0.034 χ^2 /NDF:1854905.1/24

Right Out: 178.141 $\pm$ 0.039 χ^2 /NDF: 5262336.6/28

Left In: 185.878 $\pm$ 0.033 χ^2 /NDF:1380877.6/22

Left: 193.321 $\pm$ 0.024 χ^2 /NDF: 3343425.2/47

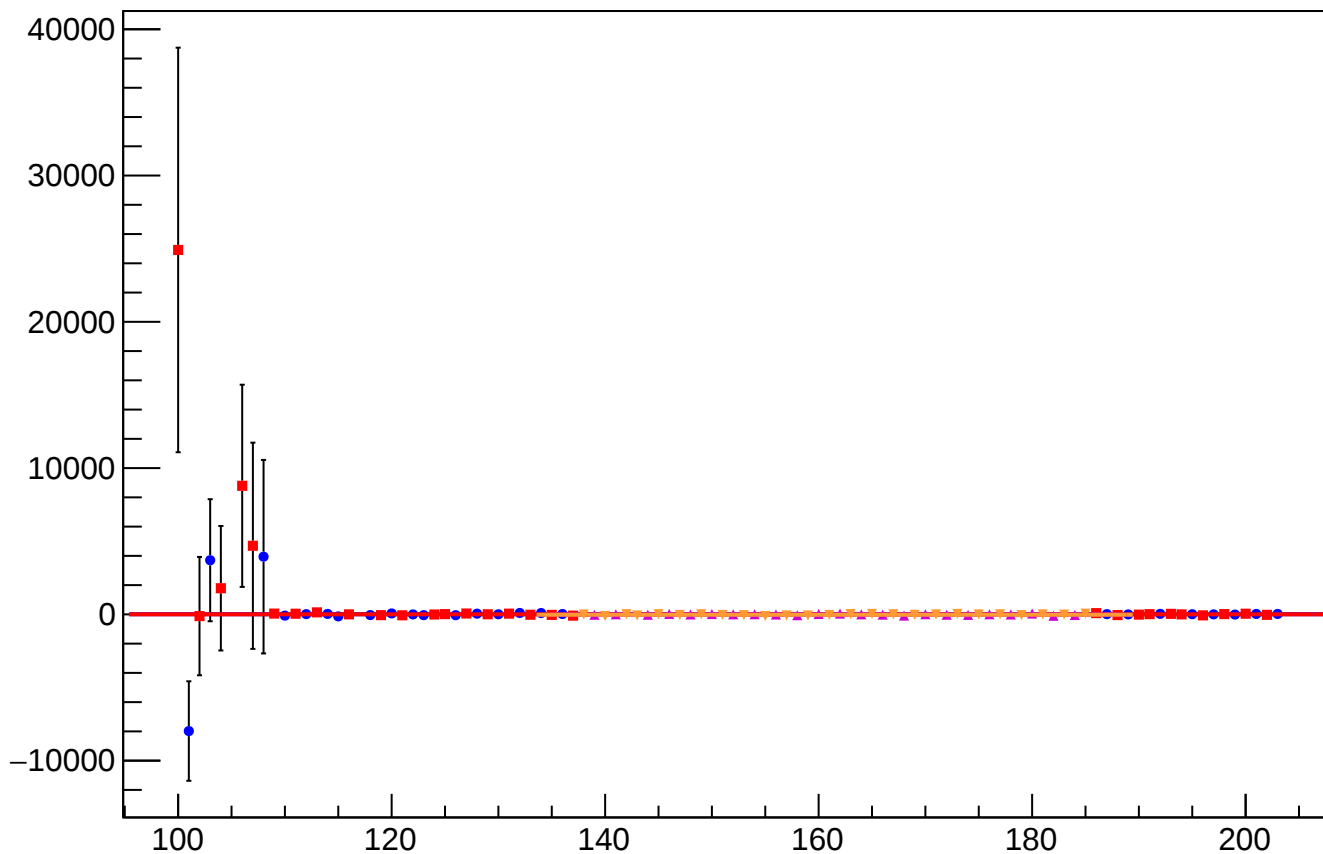
Right: 177.239 $\pm$ 0.028 χ^2 /NDF: 9711456.7/53

In: 181.999 $\pm$ 0.025 χ^2 /NDF:5863266.9/47

Out: 191.362 $\pm$ 0.026 χ^2 /NDF:7316728.5/53

All: 186.574 $\pm$ 0.018 χ^2 /NDF: 13246706.3/100

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 10.173+/-10.289 χ^2/NDF : 21.8/24

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

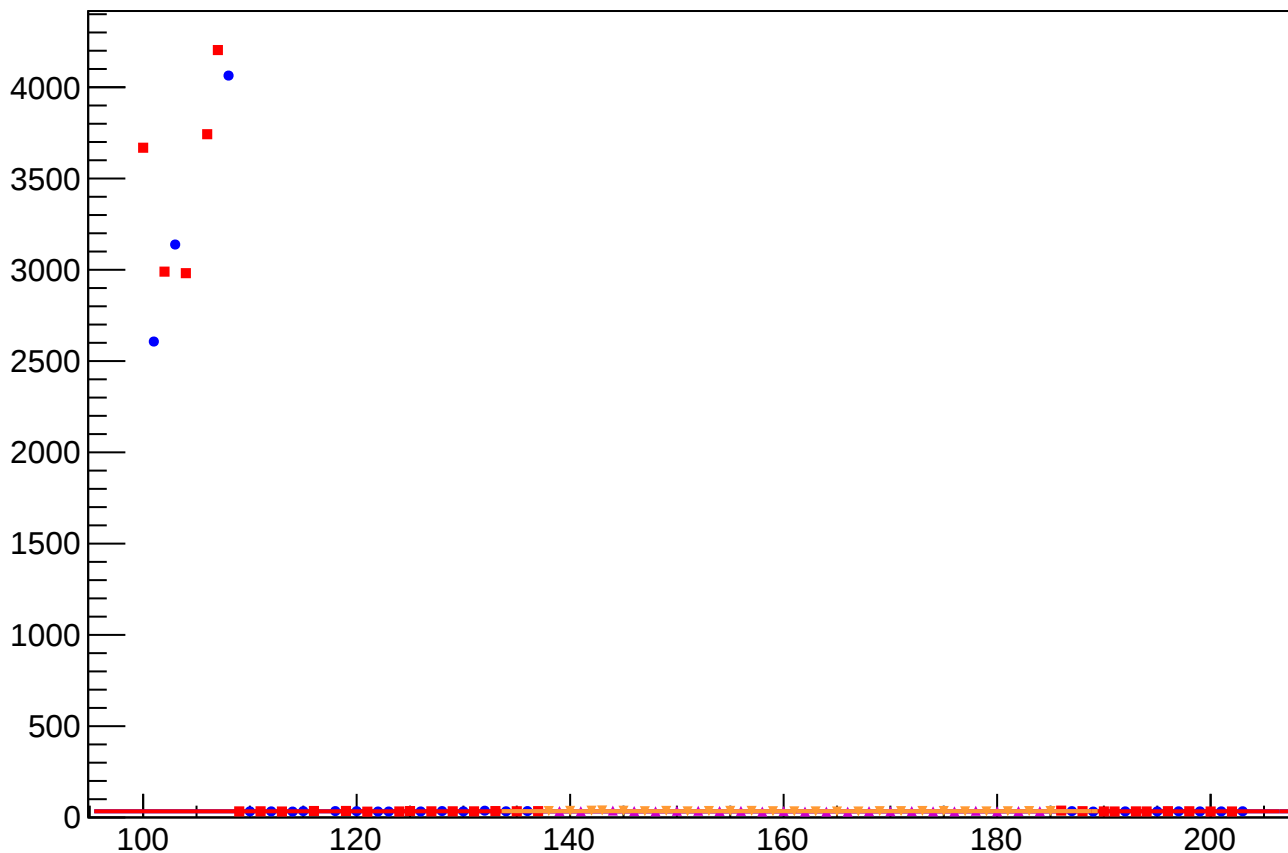
Right: 7.213+/-7.152 χ^2/NDF : 53.6/53

In: 0.459+/-6.479 χ^2/NDF : 44.2/47

Out: -12.786+/-6.270 χ^2/NDF : 61.5/53

All: -6.380+/-4.506 χ^2/NDF : 107.9/101

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 33.697 $\pm$ 0.007 χ^2 /NDF: 3011948.2/24

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

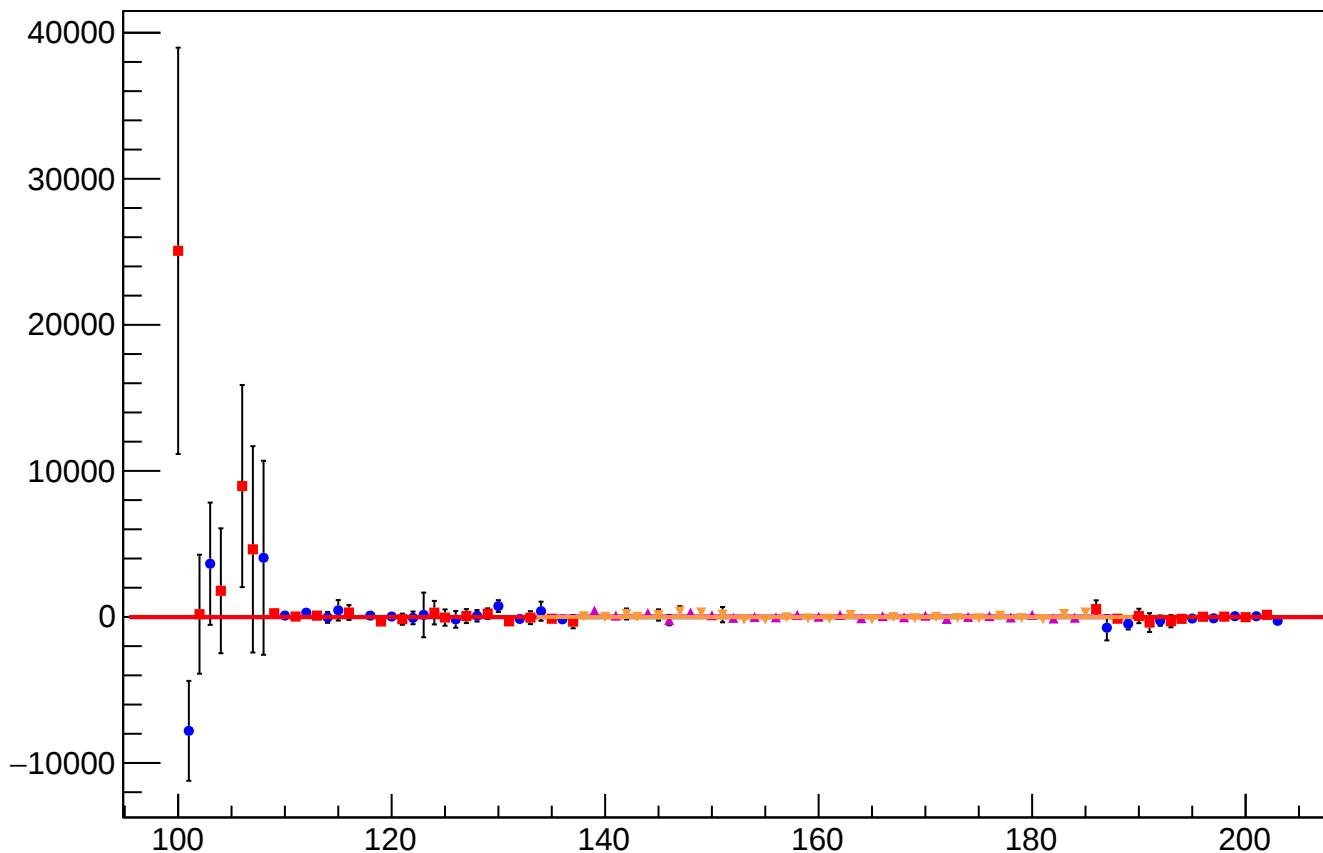
Right: 33.713 $\pm$ 0.005 χ^2 /NDF: 6477741.2/53

In: 34.291 $\pm$ 0.005 χ^2 /NDF: 3082843.2/47

Out: 34.264 $\pm$ 0.004 χ^2 /NDF: 3533295.9/53

All: 34.277 $\pm$ 0.003 χ^2 /NDF: 6616157.4/101

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -21.174 ± 56.086 χ^2/NDF : 18.9/24

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

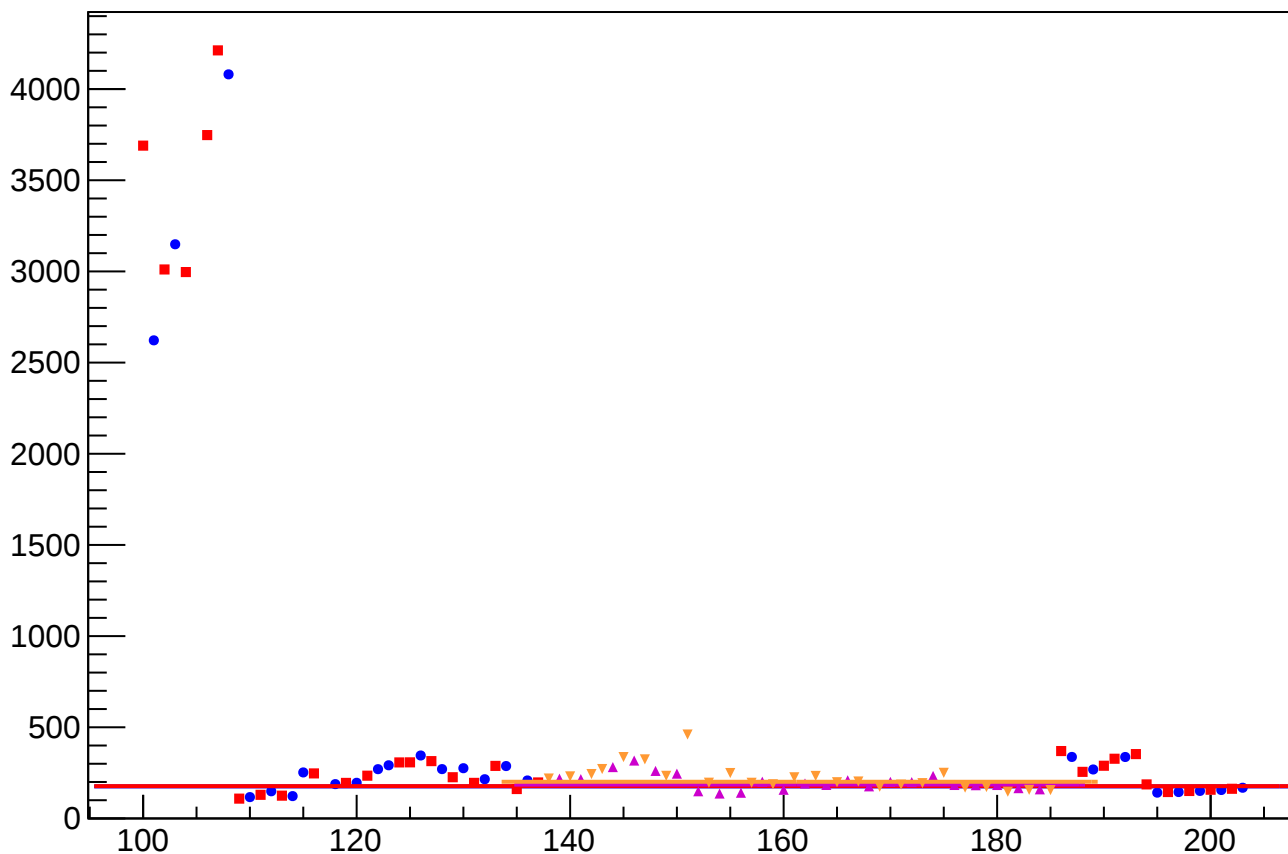
Right: -12.107 ± 39.418 χ^2/NDF : 32.8/53

In: 12.149 ± 35.761 χ^2/NDF : 26.7/47

Out: -5.685 ± 36.564 χ^2/NDF : 22.5/53

All: 3.430 ± 25.566 χ^2/NDF : 49.3/101

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 175.661 $\pm$ 0.040 χ^2 /NDF: 4477508.1/24

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

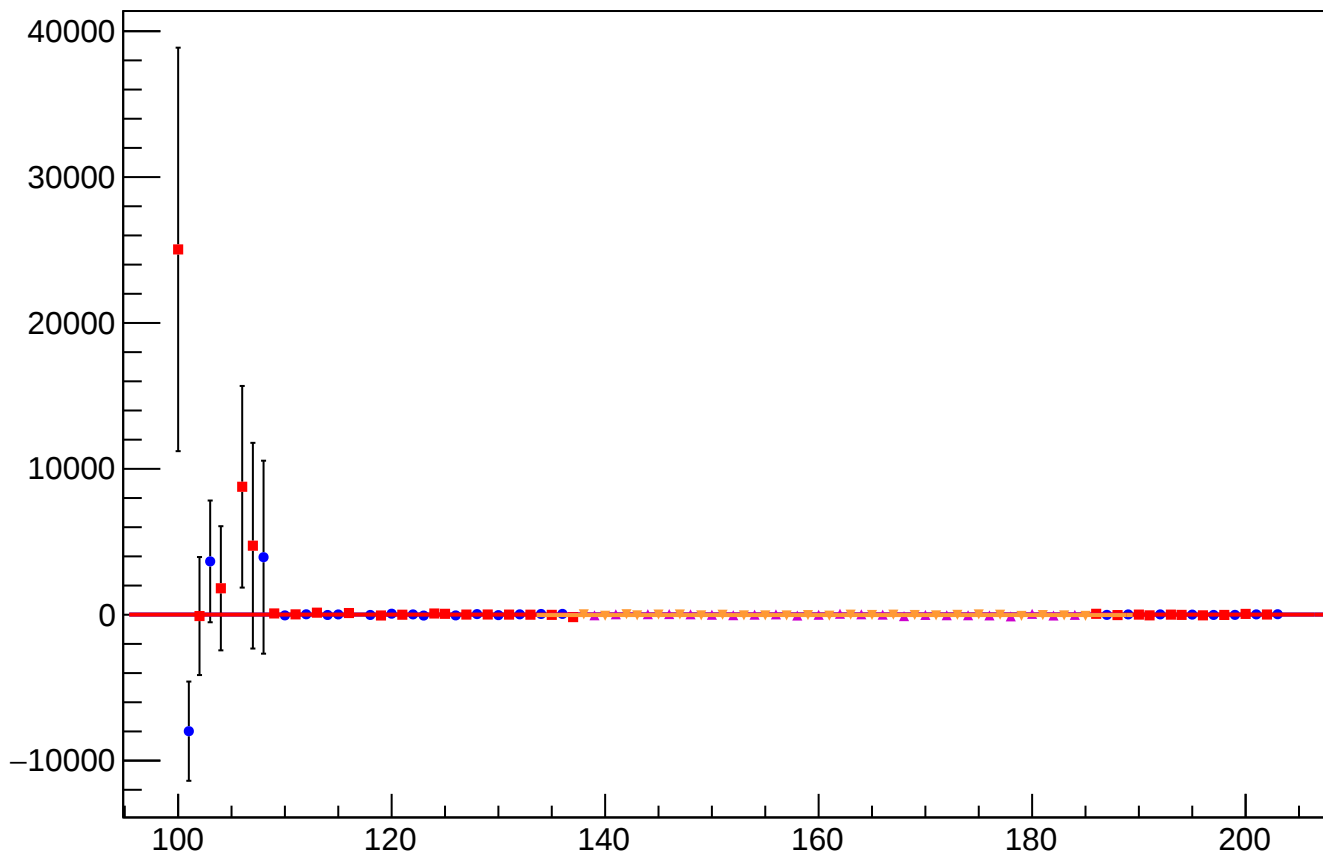
Right: 176.417 $\pm$ 0.028 χ^2 /NDF: 9791079.6/53

In: 181.576 $\pm$ 0.025 χ^2 /NDF:5886400.3/47

Out: 190.729 $\pm$ 0.026 χ^2 /NDF:7373902.1/53

All: 186.051 $\pm$ 0.018 χ^2 /NDF: 13324363.4/100

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 12.937+/-9.328 χ^2/NDF : 16.5/24

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

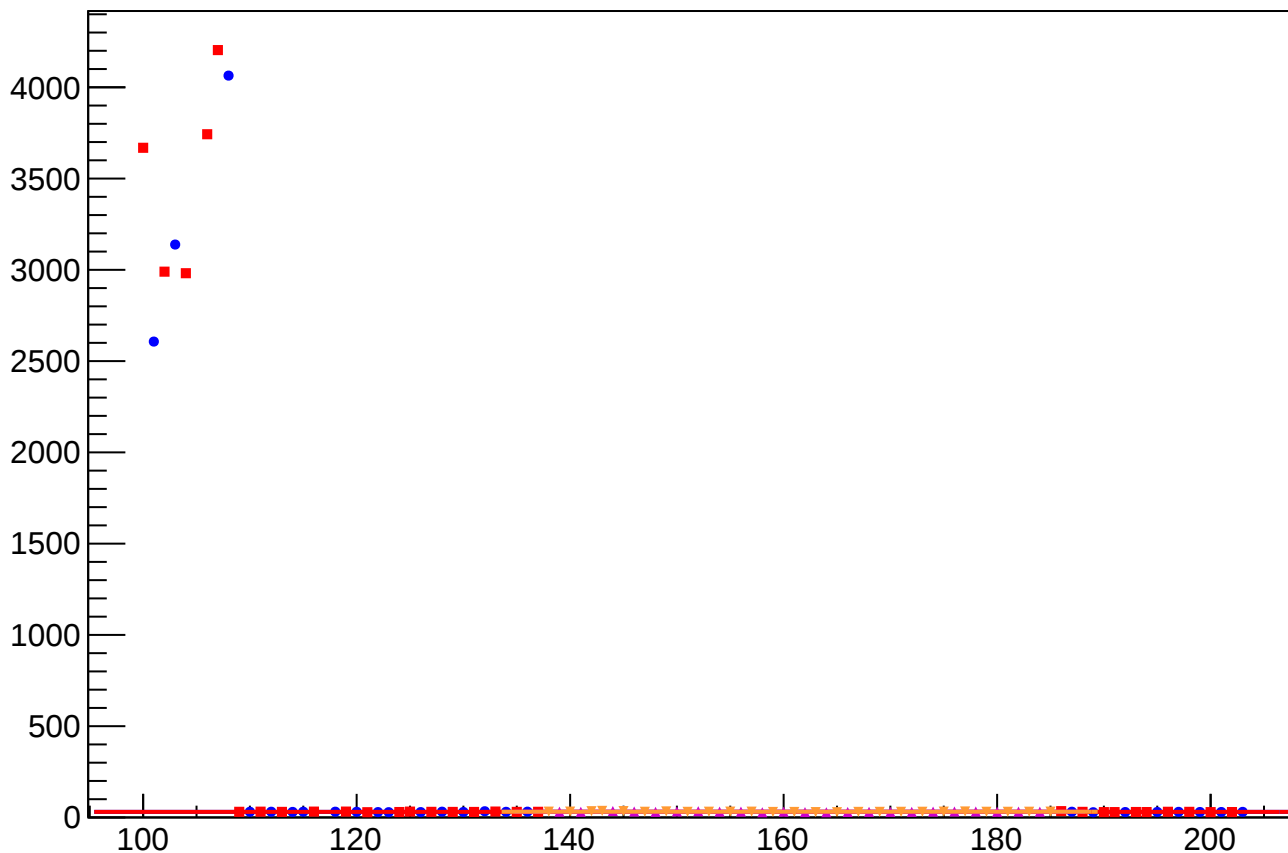
Right: 11.448+/-6.485 χ^2/NDF : 52.7/53

In: 1.295+/-5.881 χ^2/NDF : 57.9/47

Out: -10.001+/-5.699 χ^2/NDF : 62.7/53

All: -4.530+/-4.093 χ^2/NDF : 122.4/101

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 30.540+/-0.007 χ^2/NDF : 3026142.9/24

Left Out: 31.488+/-0.005 χ^2/NDF : 81938.2/24

Right Out: 30.561+/-0.006 χ^2/NDF : 3480804.5/28

Left In: 31.475+/-0.005 χ^2/NDF : 87797.5/22

Left: 31.482+/-0.004 χ^2/NDF : 169738.8/47

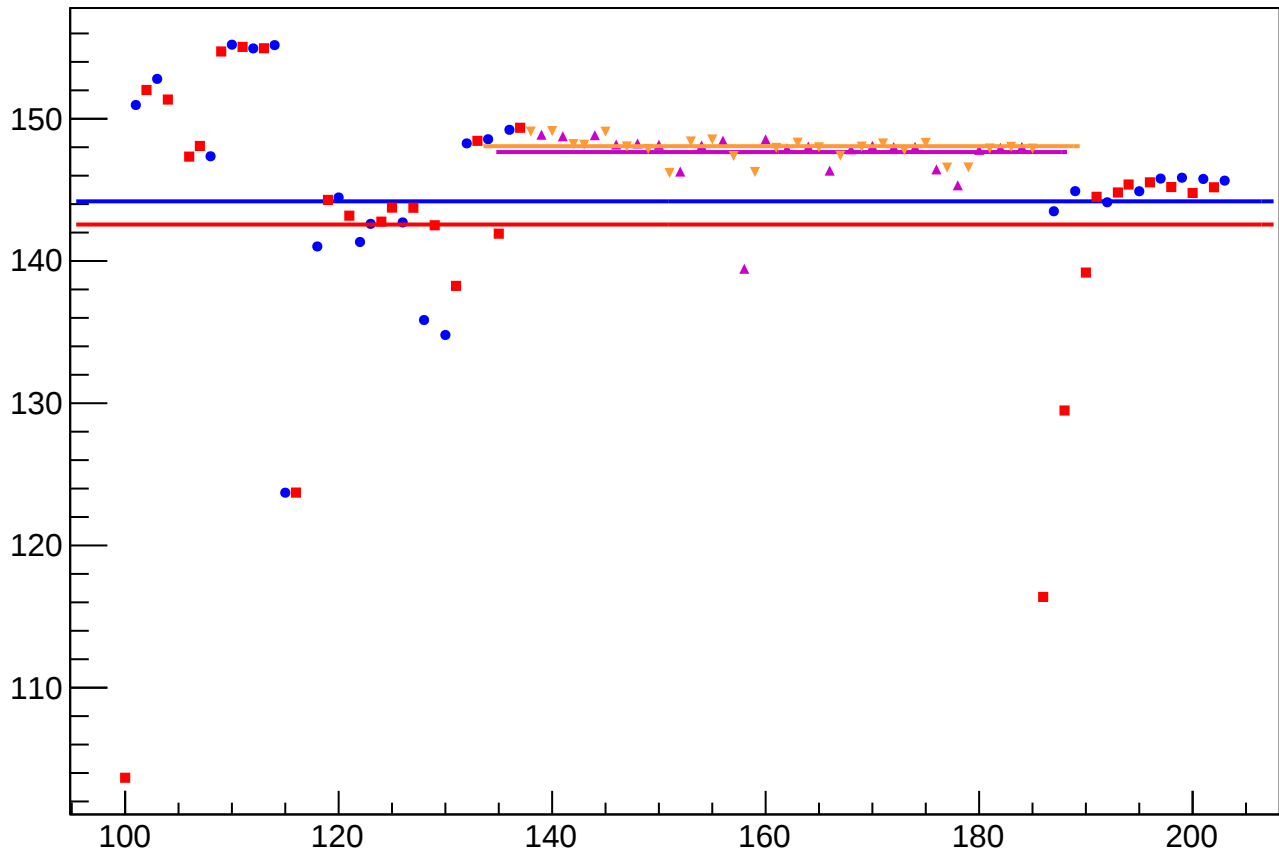
Right: 30.551+/-0.005 χ^2/NDF : 6506952.4/53

In: 31.104+/-0.004 χ^2/NDF : 3126048.6/47

Out: 31.118+/-0.004 χ^2/NDF : 3575450.8/53

All: 31.111+/-0.003 χ^2/NDF : 6701505.8/101

yield_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: 144.196 $\pm$ 0.000 χ^2 /NDF: 3482731531.6/24

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

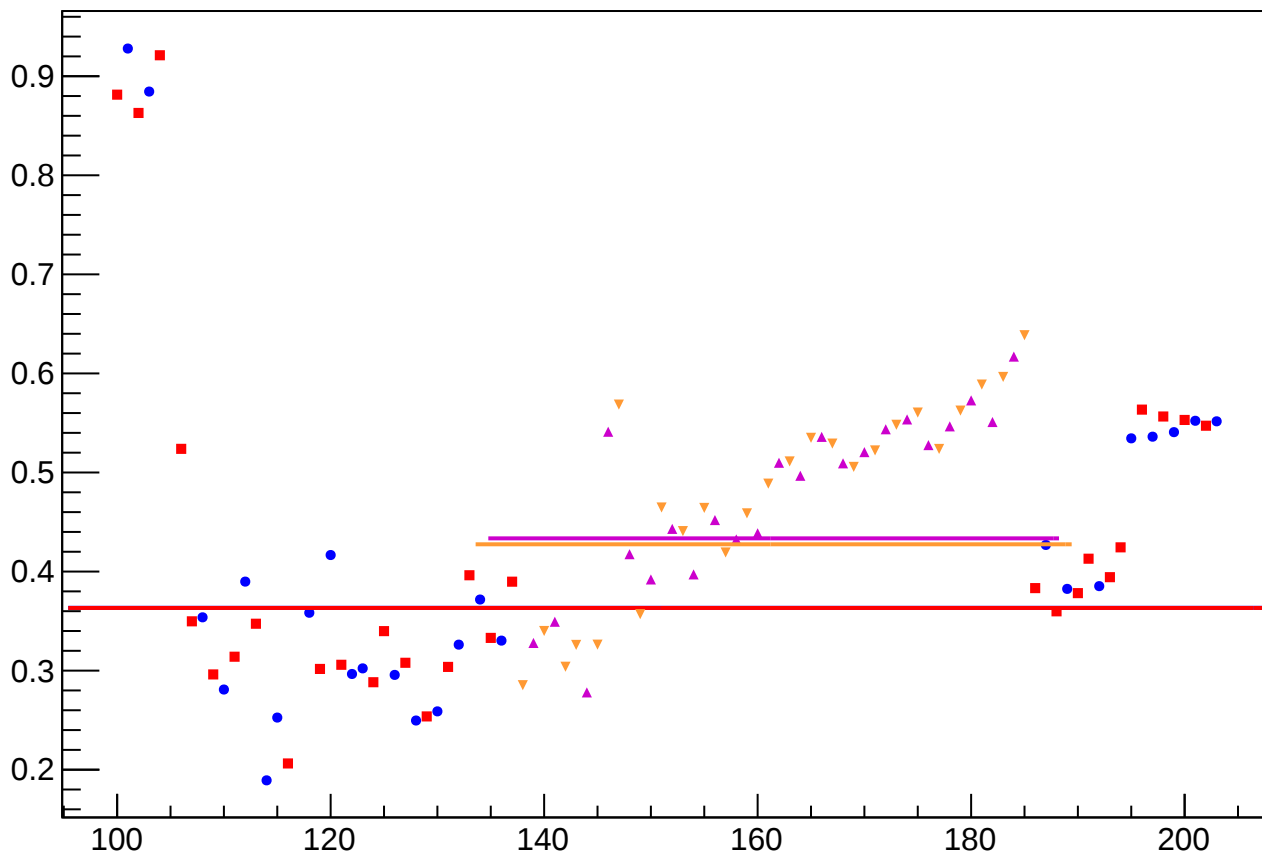
Right: 143.332 $\pm$ 0.000 χ^2 /NDF: 10969697326.3/53

In: 146.013 $\pm$ 0.000 χ^2 /NDF: 4316803336.8/47

Out: 145.396 $\pm$ 0.000 χ^2 /NDF: 8809323089.8/53

All: 145.689 $\pm$ 0.000 χ^2 /NDF: 13158797992.0

yield_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 0.363+/-0.000 χ^2/NDF : 2348386.7/24

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

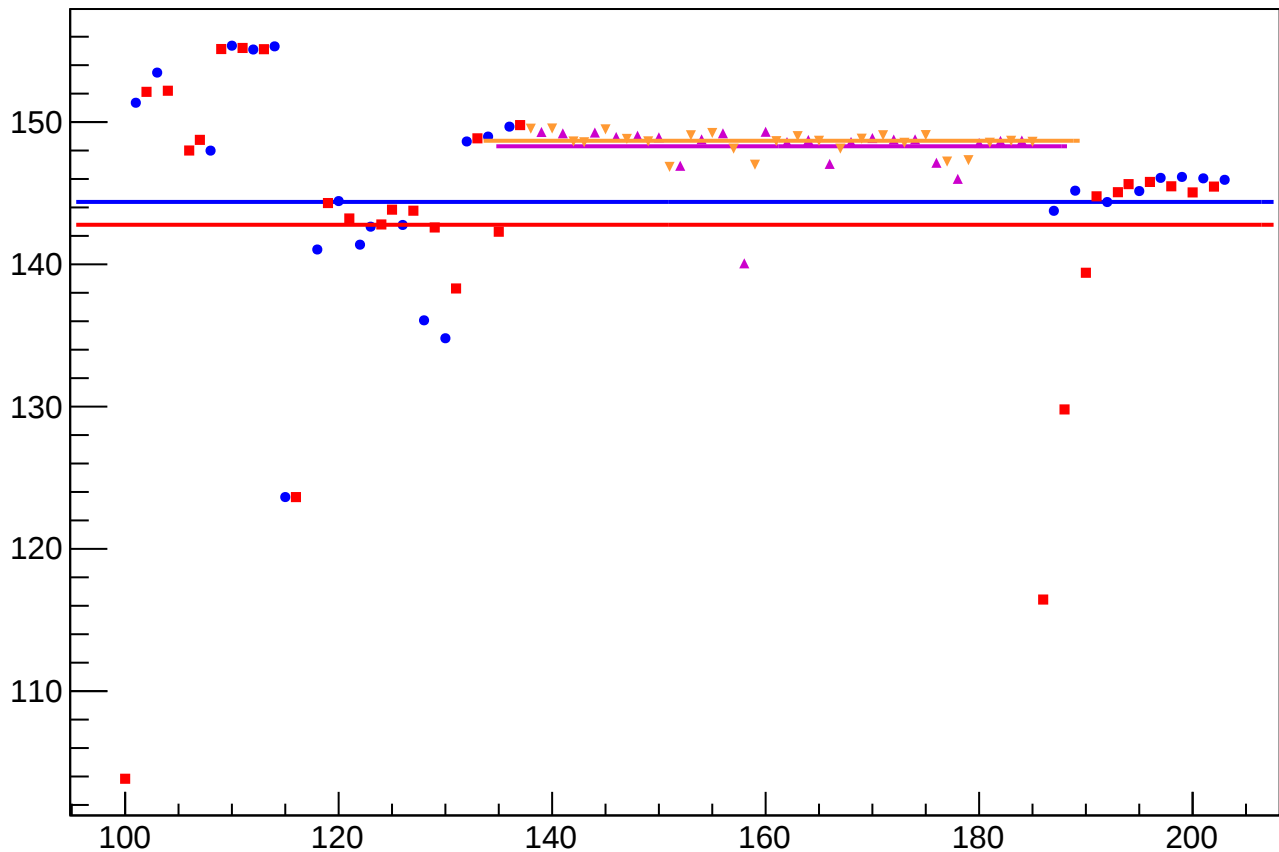
Right: 0.363+/-0.000 χ^2/NDF : 4495495.5/53

In: 0.400+/-0.000 χ^2/NDF :4229118.9/47

Out: 0.396+/-0.000 χ^2/NDF :4411628.3/53

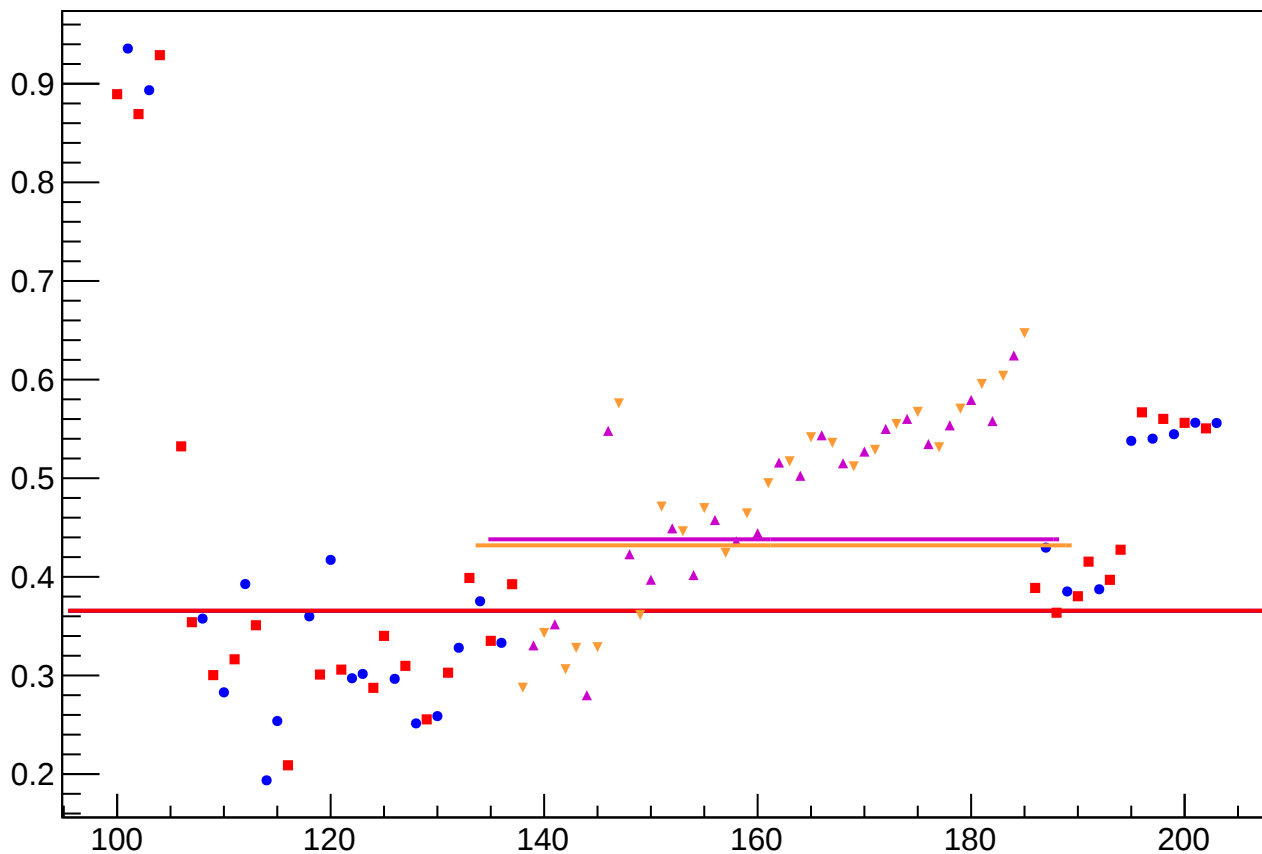
All: 0.398+/-0.000 χ^2/NDF : 8643339.1/101

yield_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: 144.387 $\pm$ 0.000	χ^2 /NDF: 3530706171.2/24	Left: 148.500 $\pm$ 0.000	χ^2 /NDF: 391414535.1/47
Left Out: 148.687 $\pm$ 0.000	χ^2 /NDF: 52285197.5/24	Right: 143.537 $\pm$ 0.000	χ^2 /NDF: 10960320528.7/53
Right Out: 142.781 $\pm$ 0.000	χ^2 /NDF: 7324604314.2/28	In: 146.429 $\pm$ 0.000	χ^2 /NDF: 4477285417.2/47
Left In: 148.298 $\pm$ 0.000	χ^2 /NDF: 332527463.6/22	Out: 145.804 $\pm$ 0.000	χ^2 /NDF: 8920424590.9/53
		All: 146.101 $\pm$ 0.000	χ^2 /NDF: 13430664002.0

yield_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 0.366+/-0.000 χ^2/NDF : 2354888.0/24

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

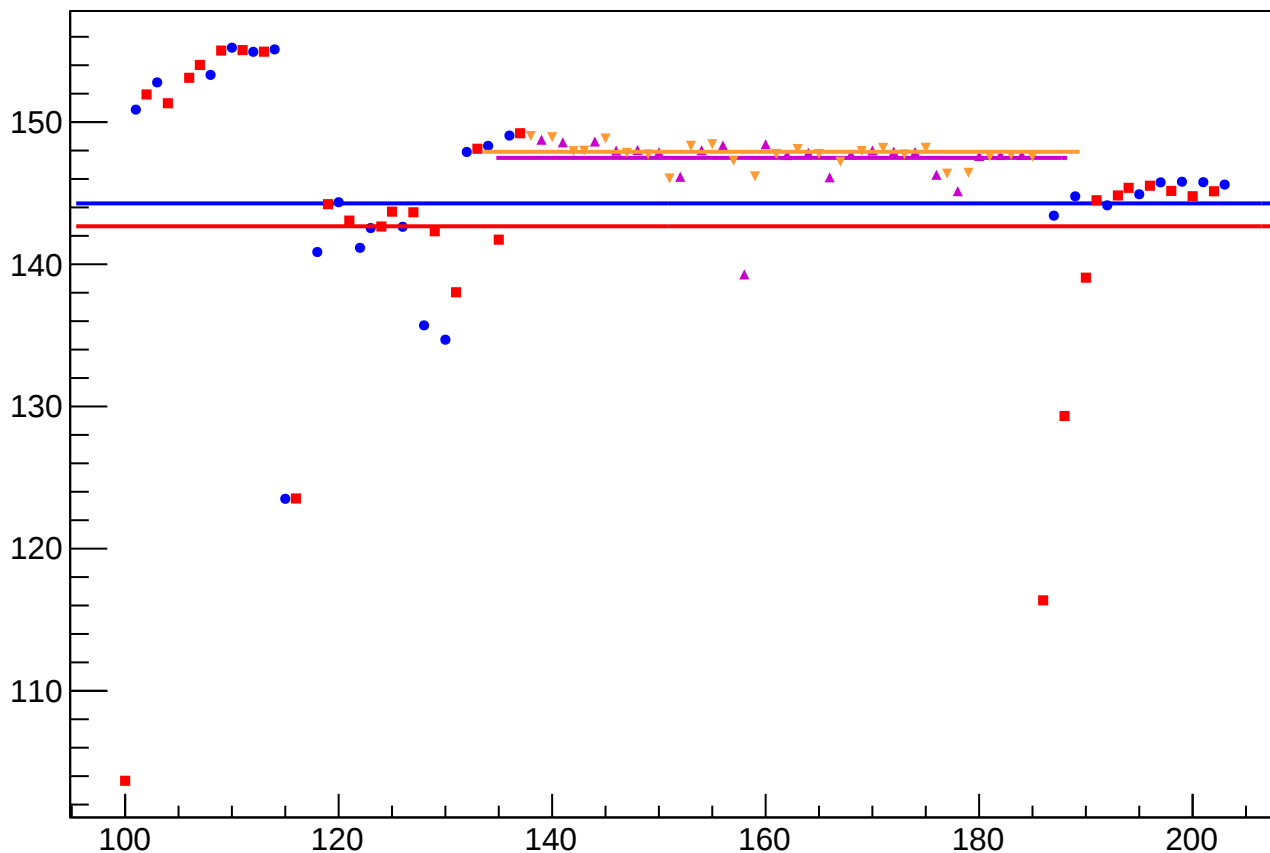
Right: 0.366+/-0.000 χ^2/NDF : 4505718.9/53

In: 0.403+/-0.000 χ^2/NDF :4281685.8/47

Out: 0.400+/-0.000 χ^2/NDF :4464200.6/53

All: 0.401+/-0.000 χ^2/NDF : 8748359.5/101

yield_bcm_an_us_mean vs Slug, Sign Corrected



Right In: 144.282 $\pm$ 0.000 χ^2 /NDF: 3689772596.2/24

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

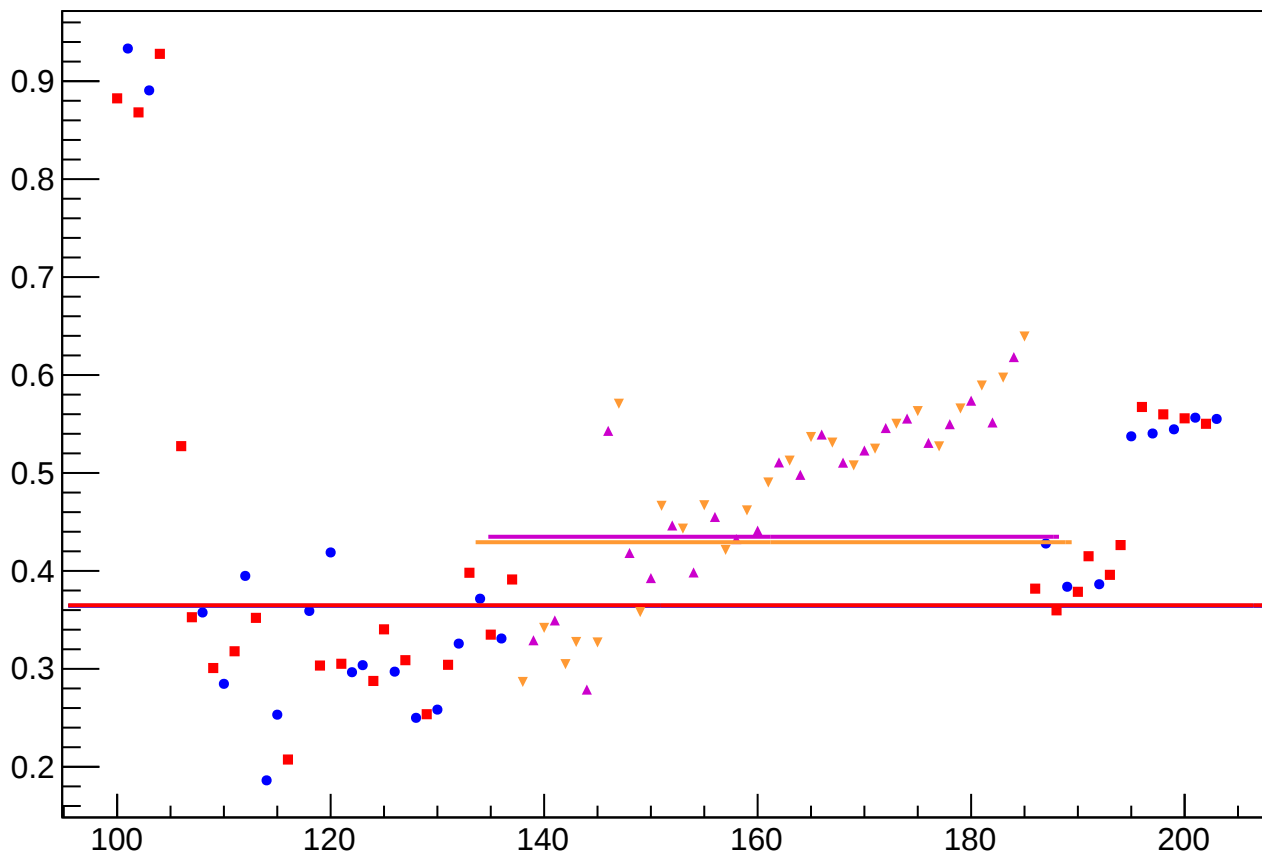
Right: 143.431 $\pm$ 0.000 χ^2 /NDF: 11554561266.9/53

In: 145.962 $\pm$ 0.000 χ^2 /NDF: 4447968114.0/47

Out: 145.366 $\pm$ 0.000 χ^2 /NDF: 9048458061.1/53

All: 145.650 $\pm$ 0.000 χ^2 /NDF: 13526662033.0

yield_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 0.364 $\pm$ 0.000 χ^2 /NDF: 2378765.2/24

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

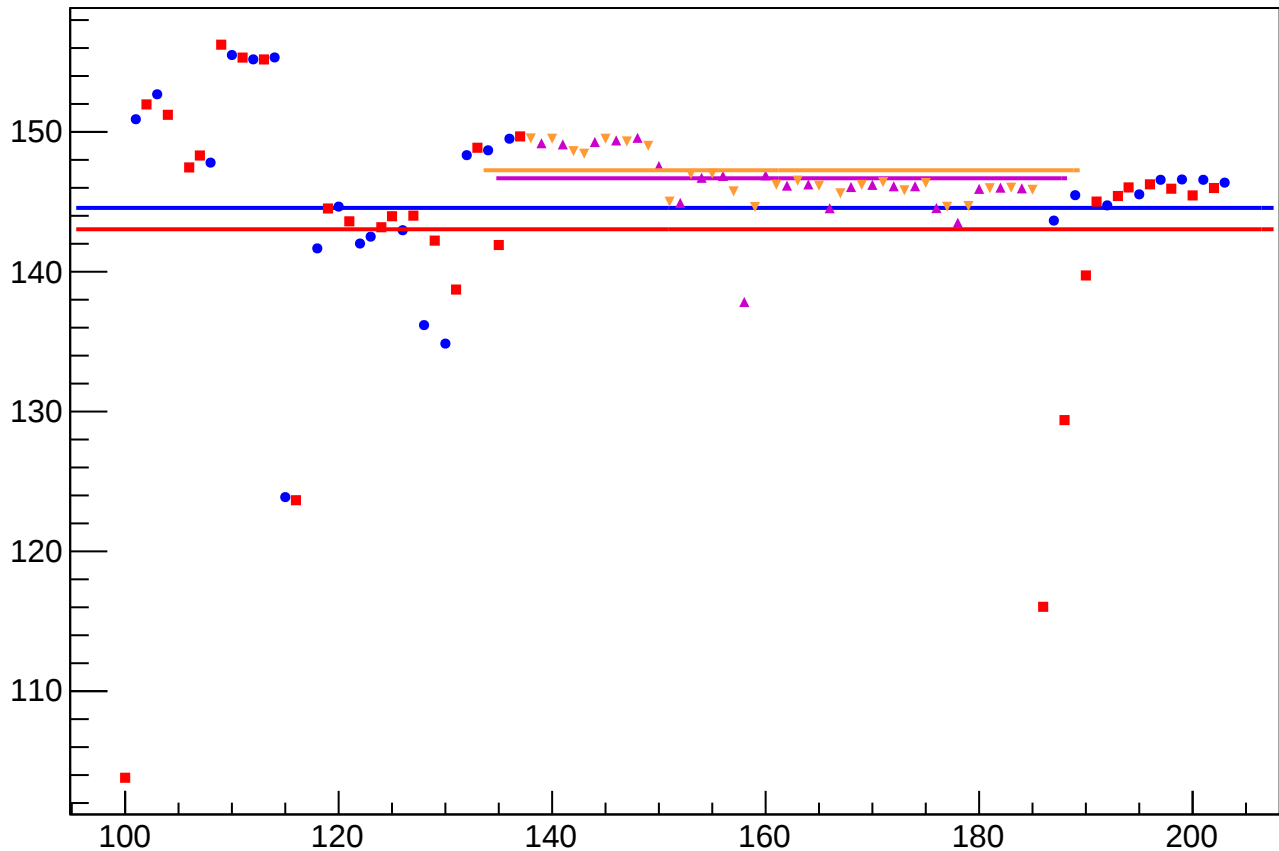
Right: 0.365 $\pm$ 0.000 χ^2 /NDF: 4530938.3/53

In: 0.401 $\pm$ 0.000 χ^2 /NDF:4267337.6/47

Out: 0.398 $\pm$ 0.000 χ^2 /NDF:4414046.9/53

All: 0.400 $\pm$ 0.000 χ^2 /NDF: 8683325.7/101

yield_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: 144.566 $\pm$ 0.000 χ^2 /NDF: 3212585916.0/24

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

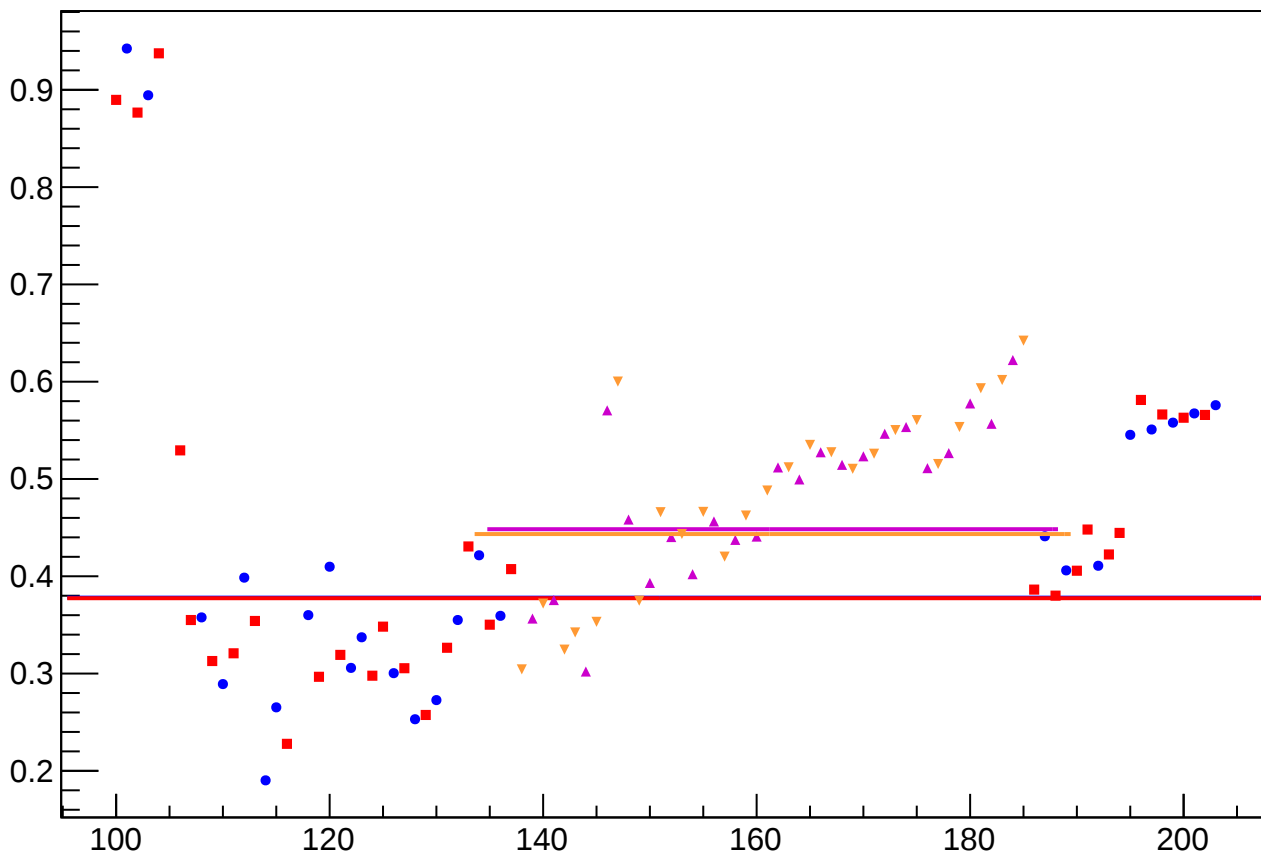
Right: 143.755 $\pm$ 0.000 χ^2 /NDF: 10389234675.4/53

In: 145.690 $\pm$ 0.000 χ^2 /NDF: 3938370066.5/47

Out: 145.221 $\pm$ 0.000 χ^2 /NDF: 8096522218.0/53

All: 145.445 $\pm$ 0.000 χ^2 /NDF: 12052468516.0/100

yield_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 0.378+/-0.000 χ^2/NDF : 2326058.4/24

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

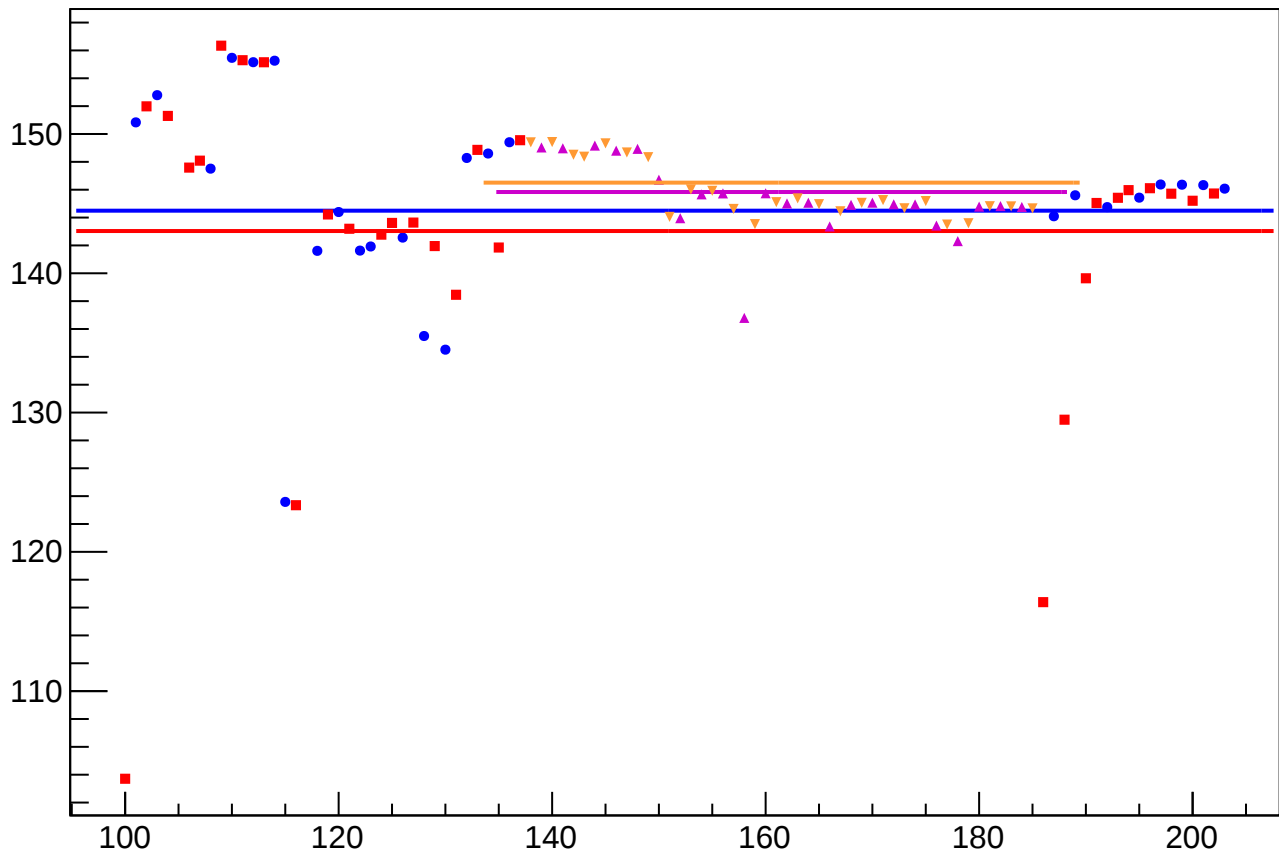
Right: 0.378+/-0.000 χ^2/NDF : 4426336.4/53

In: 0.415+/-0.000 χ^2/NDF :3822995.0/47

Out: 0.412+/-0.000 χ^2/NDF :3945378.3/53

All: 0.413+/-0.000 χ^2/NDF : 7770664.3/101

yield_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: 144.494 $\pm$ 0.000 χ^2 /NDF: 3324511095.7/24

Left Out: 146.508 $\pm$ 0.000 χ^2 /NDF: 401248837.9/24

Right Out: 143.033 $\pm$ 0.000 χ^2 /NDF: 7049415479.4/28

Left In: 145.834 $\pm$ 0.000 χ^2 /NDF: 690172810.0/22

Left: 146.184 $\pm$ 0.000 χ^2 /NDF: 1110403123.5/47

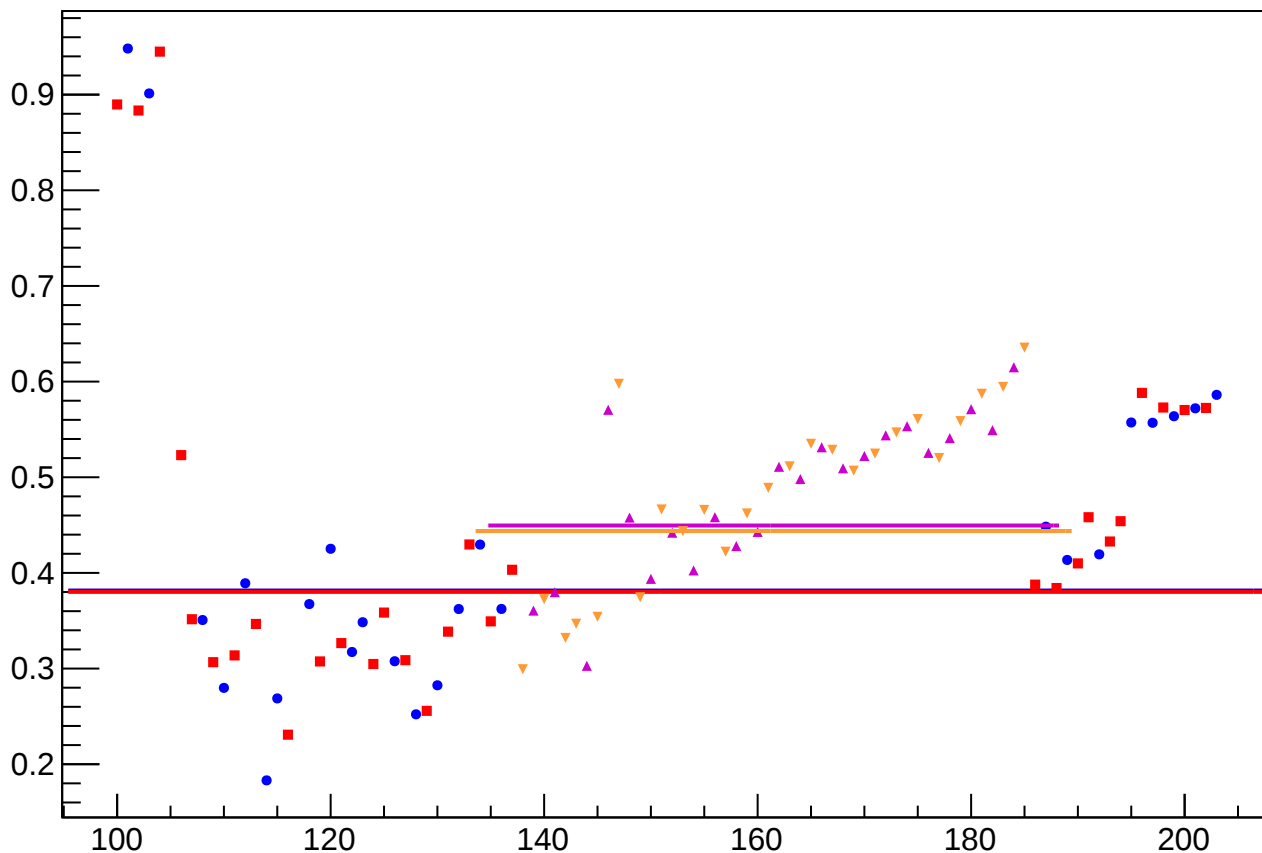
Right: 143.718 $\pm$ 0.000 χ^2 /NDF: 10453458833.7/53

In: 145.211 $\pm$ 0.000 χ^2 /NDF: 4082046498.1/47

Out: 144.846 $\pm$ 0.000 χ^2 /NDF: 7951782256.0/53

All: 145.019 $\pm$ 0.000 χ^2 /NDF: 12044385341.0/100

yield_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 0.382 $\pm$ 0.000 χ^2 /NDF: 2369829.0/24

Left Out: 0.444 $\pm$ 0.000 χ^2 /NDF:1460383.7/24

Right Out: 0.380 $\pm$ 0.000 χ^2 /NDF: 2123198.8/28

Left In: 0.450 $\pm$ 0.000 χ^2 /NDF:1092776.5/22

Left: 0.447 $\pm$ 0.000 χ^2 /NDF: 2555905.8/47

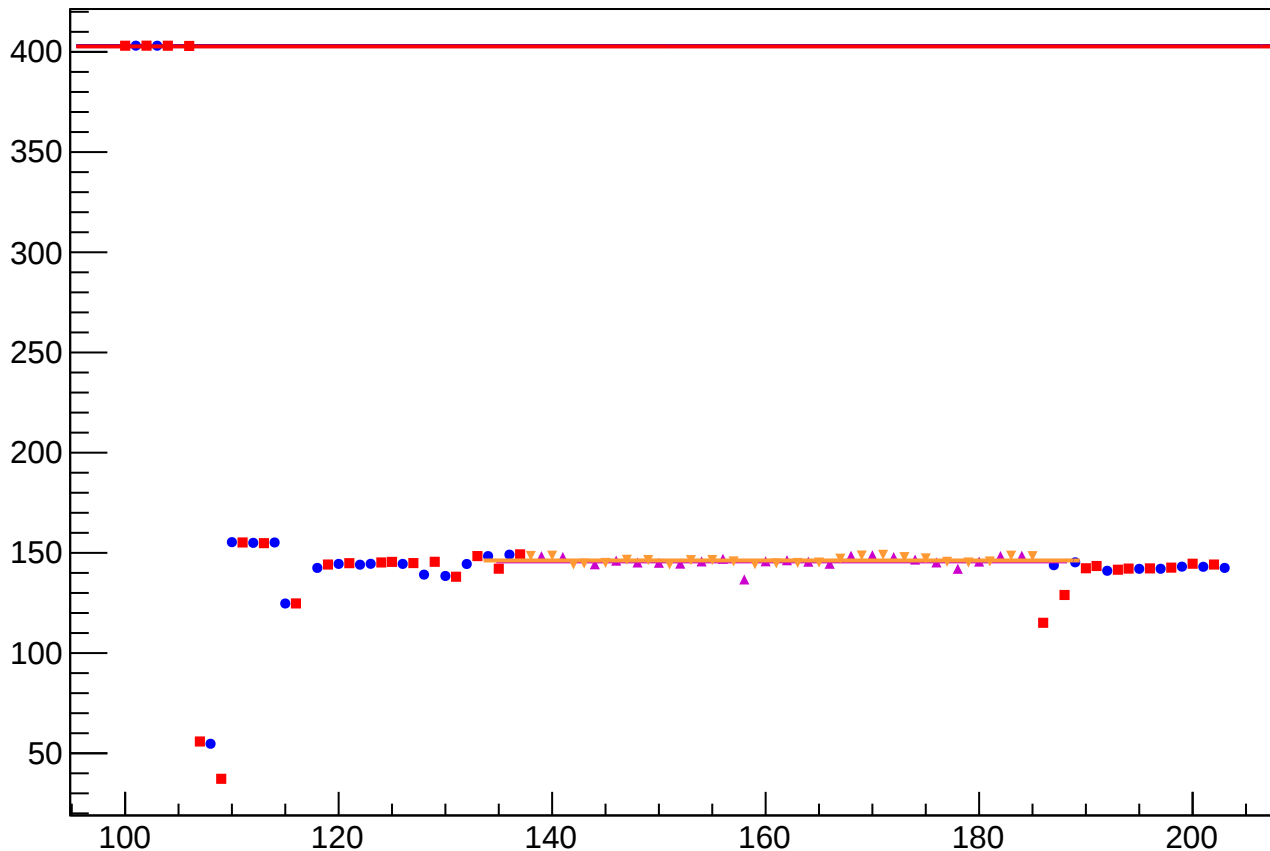
Right: 0.381 $\pm$ 0.000 χ^2 /NDF: 4493171.2/53

In: 0.418 $\pm$ 0.000 χ^2 /NDF:3809071.7/47

Out: 0.413 $\pm$ 0.000 χ^2 /NDF:3919506.9/53

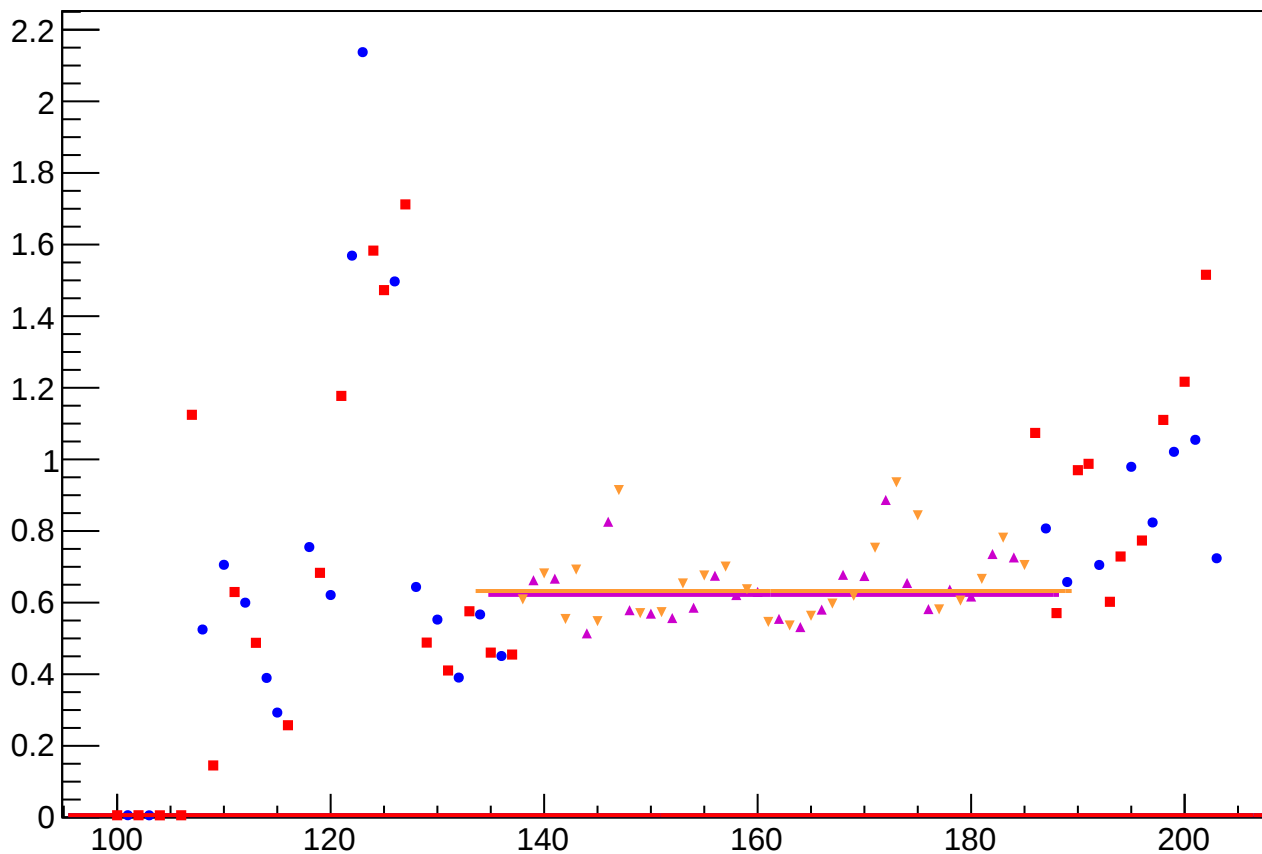
All: 0.416 $\pm$ 0.000 χ^2 /NDF: 7731871.9/101

yield_cav4bQ_mean vs Slug, Sign Corrected



Right In: 402.904 $\pm$ 0.000	χ^2 /NDF: 1526334765288.0/24	Left: 145.987 $\pm$ 0.000	χ^2 /NDF: 295994641.0/47
Left Out: 146.216 $\pm$ 0.000	χ^2 /NDF: 86042286.3/24	Right: 402.815 $\pm$ 0.000	χ^2 /NDF: 5220327578482.6
Right Out: 402.736 $\pm$ 0.000	χ^2 /NDF: 3693521690913.9/28	In: 402.613 $\pm$ 0.000	χ^2 /NDF: 3857644431491.4/47
Left In: 145.755 $\pm$ 0.000	χ^2 /NDF: 206171532.0/22	Out: 402.475 $\pm$ 0.000	χ^2 /NDF: 6051056141397.3/5
		All: 402.540 $\pm$ 0.000	χ^2 /NDF: 990901762503.0

yield_cav4bQ_rms vs Slug, Sign Corrected



Right In: 0.007 $\pm$ 0.000 χ^2 /NDF: 17611795.1/24

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

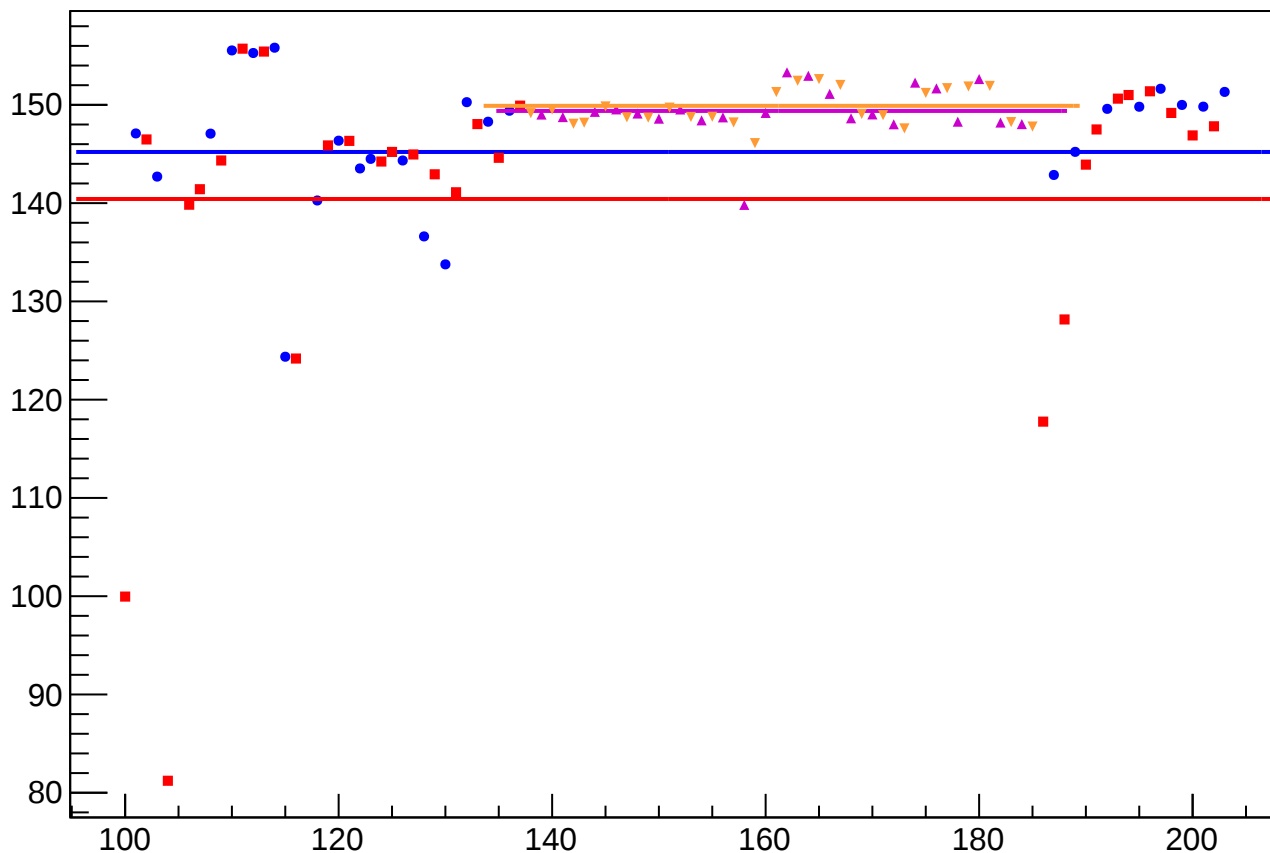
Right: 0.007 $\pm$ 0.000 χ^2 /NDF: 37194115.4/53

In: 0.007 $\pm$ 0.000 χ^2 /NDF:44687382.7/47

Out: 0.007 $\pm$ 0.000 χ^2 /NDF:48266003.3/53

All: 0.007 $\pm$ 0.000 χ^2 /NDF: 92953491.2/101

yield_cav4cQ_mean vs Slug, Sign Corrected



Right In: 145.206 $\pm$ 0.000 χ^2 /NDF: 1299155916.4/24

Left Out: 149.900 $\pm$ 0.000 χ^2 /NDF: 162845622.6/24

Right Out: 140.421 $\pm$ 0.000 χ^2 /NDF: 3049982229.9/28

Left In: 149.382 $\pm$ 0.000 χ^2 /NDF: 434657827.5/22

Left: 149.650 $\pm$ 0.000 χ^2 /NDF: 604081739.6/47

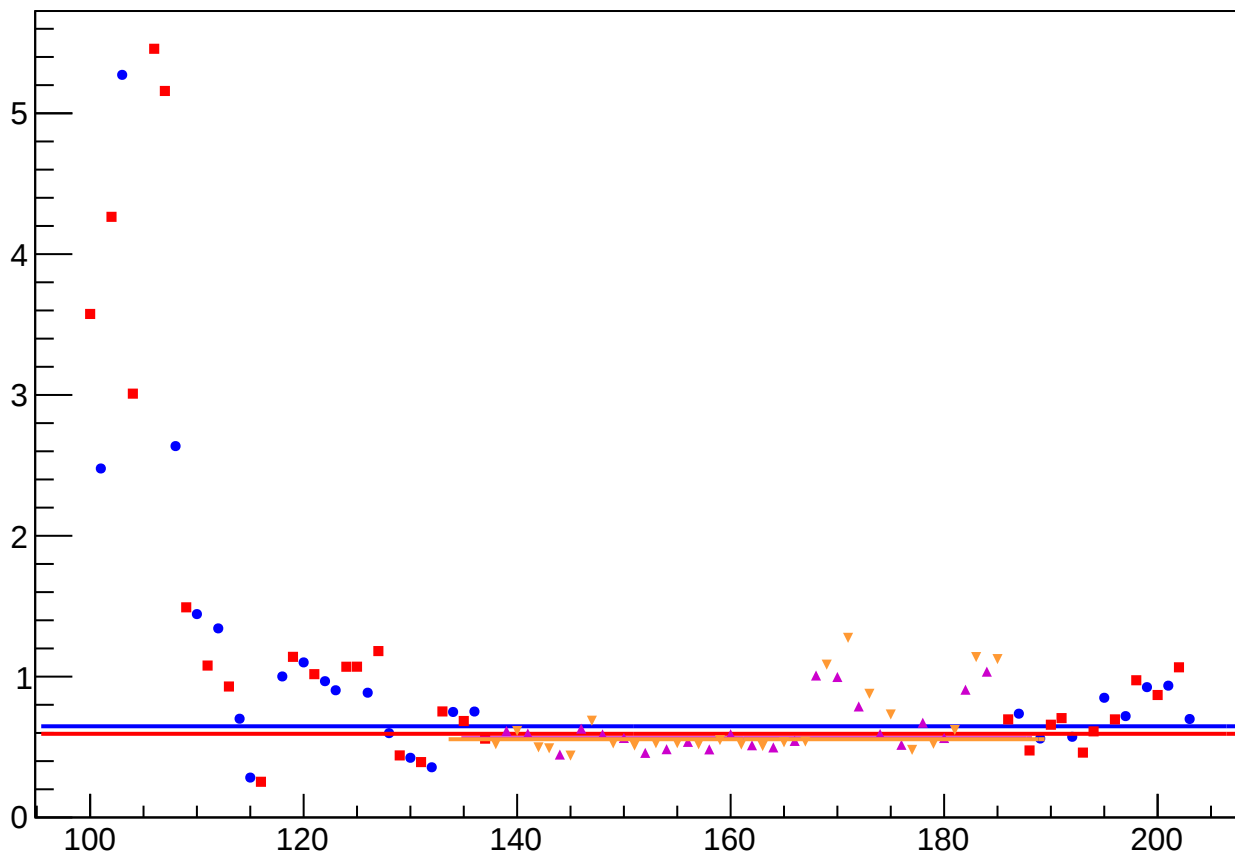
Right: 142.531 $\pm$ 0.000 χ^2 /NDF: 4587851219.3/53

In: 148.200 $\pm$ 0.000 χ^2 /NDF: 1967022363.7/47

Out: 146.888 $\pm$ 0.000 χ^2 /NDF: 4661765474.9/53

All: 147.505 $\pm$ 0.000 χ^2 /NDF: 6689024658.4

yield_cav4cQ_rms vs Slug, Sign Corrected



Right In: 0.647 $\pm$ 0.000 χ^2 /NDF: 3984296.6/24

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

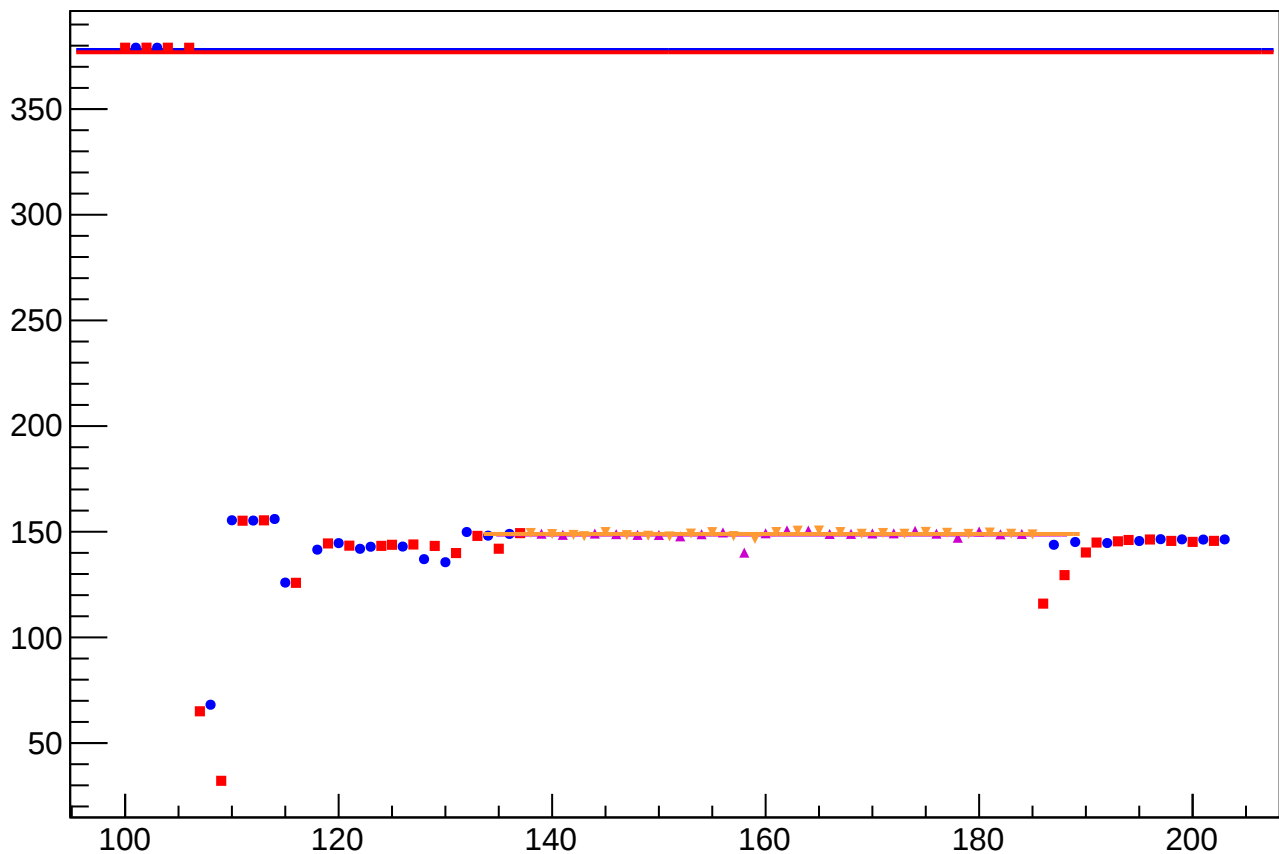
Right: 0.618 $\pm$ 0.000 χ^2 /NDF: 9491248.8/53

In: 0.586 $\pm$ 0.000 χ^2 /NDF:5485961.5/47

Out: 0.568 $\pm$ 0.000 χ^2 /NDF:7268922.9/53

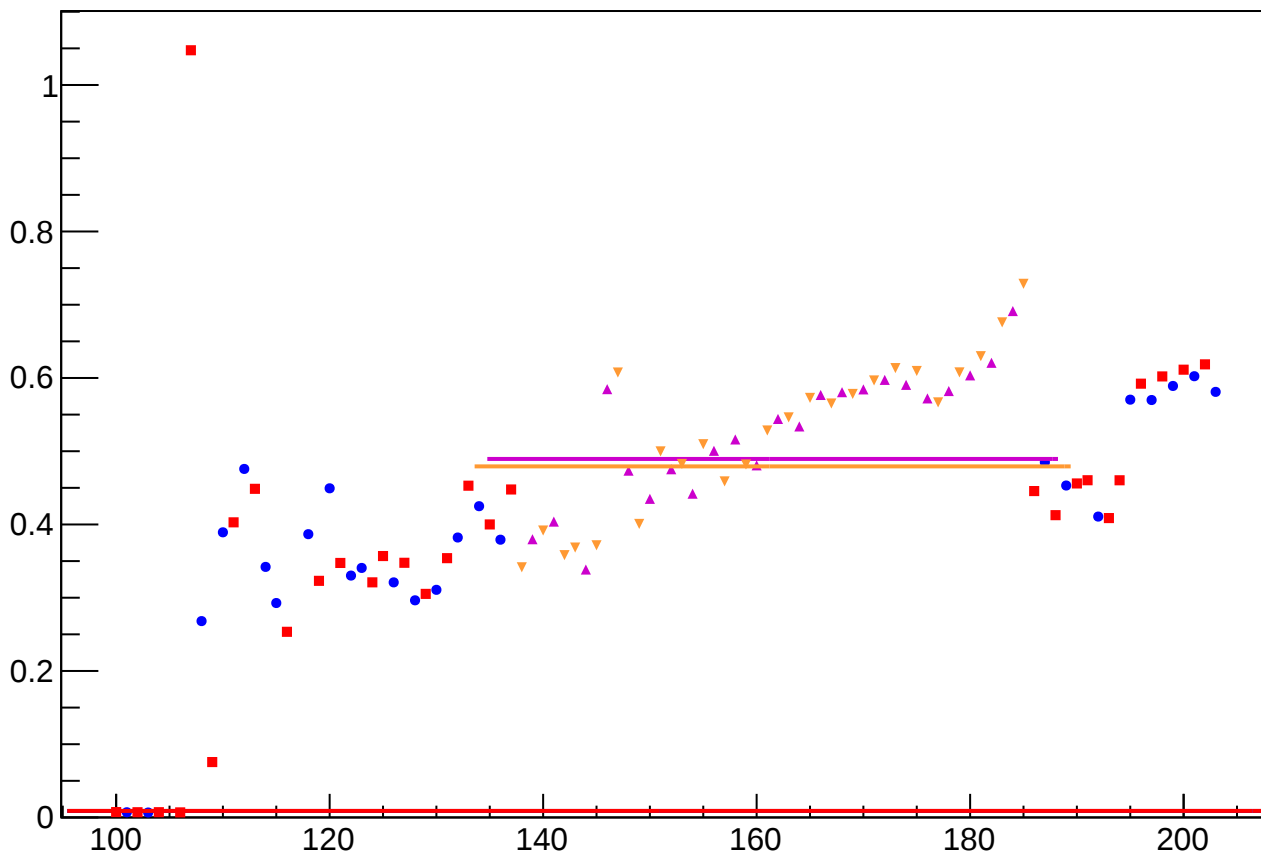
All: 0.576 $\pm$ 0.000 χ^2 /NDF: 12778221.8/101

yield_cav4dQ_mean vs Slug, Sign Corrected



Right In: 377.954 $\pm$ 0.000	χ^2 /NDF: 3525157835200.1/24	Left: 148.814 $\pm$ 0.000	χ^2 /NDF: 319467494.9/47
Left Out: 148.944 $\pm$ 0.000	χ^2 /NDF: 63976941.3/24	Right: 377.389 $\pm$ 0.000	χ^2 /NDF: 13242219667435.0
Right Out: 376.893 $\pm$ 0.000	χ^2 /NDF: 9709059613229.0/28	In: 376.784 $\pm$ 0.000	χ^2 /NDF: 7102668838316.3/47
Left In: 148.672 $\pm$ 0.000	χ^2 /NDF: 252846428.3/22	Out: 375.779 $\pm$ 0.000	χ^2 /NDF: 13571732441784.7
		All: 376.249 $\pm$ 0.000	χ^2 /NDF: 206816204036.0

yield_cav4dQ_rms vs Slug, Sign Corrected



Right In: 0.009 $\pm$ 0.000 χ^2 /NDF: 19986634.5/24

Left Out: 0.479 $\pm$ 0.000 χ^2 /NDF:1516566.1/24

Right Out: 0.009 $\pm$ 0.000 χ^2 /NDF: 21403770.3/28

Left In: 0.489 $\pm$ 0.000 χ^2 /NDF:1076134.2/22

Left: 0.484 $\pm$ 0.000 χ^2 /NDF: 2600075.4/47

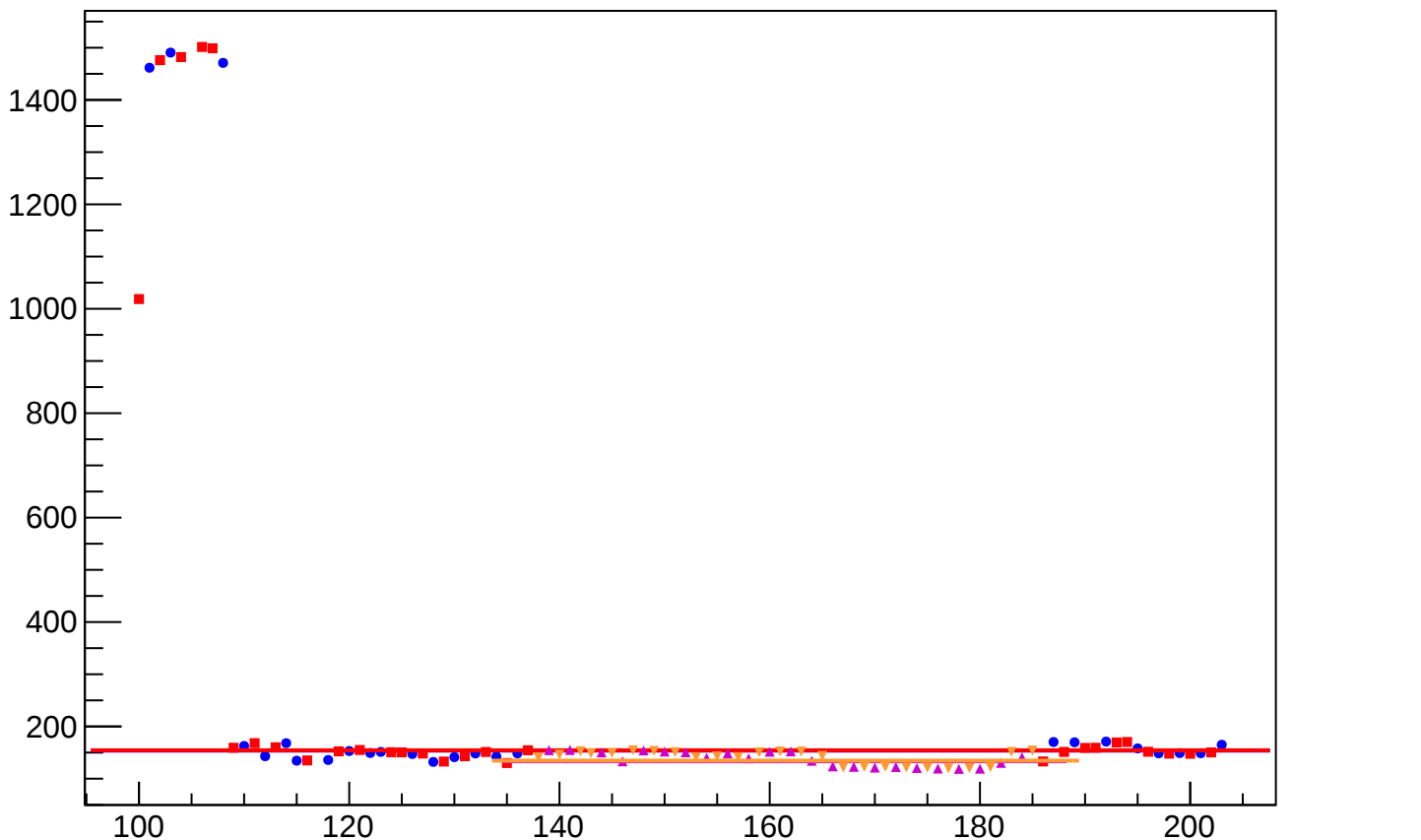
Right: 0.009 $\pm$ 0.000 χ^2 /NDF: 41390524.3/53

In: 0.011 $\pm$ 0.000 χ^2 /NDF:52499465.2/47

Out: 0.011 $\pm$ 0.000 χ^2 /NDF:55813145.8/53

All: 0.011 $\pm$ 0.000 χ^2 /NDF: 108312665.4/101

yield_bcm0l02_mean vs Slug, Sign Corrected



Right In: 153.818 $\pm$ 0.000 χ^2 /NDF: 25633810385.0/24

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

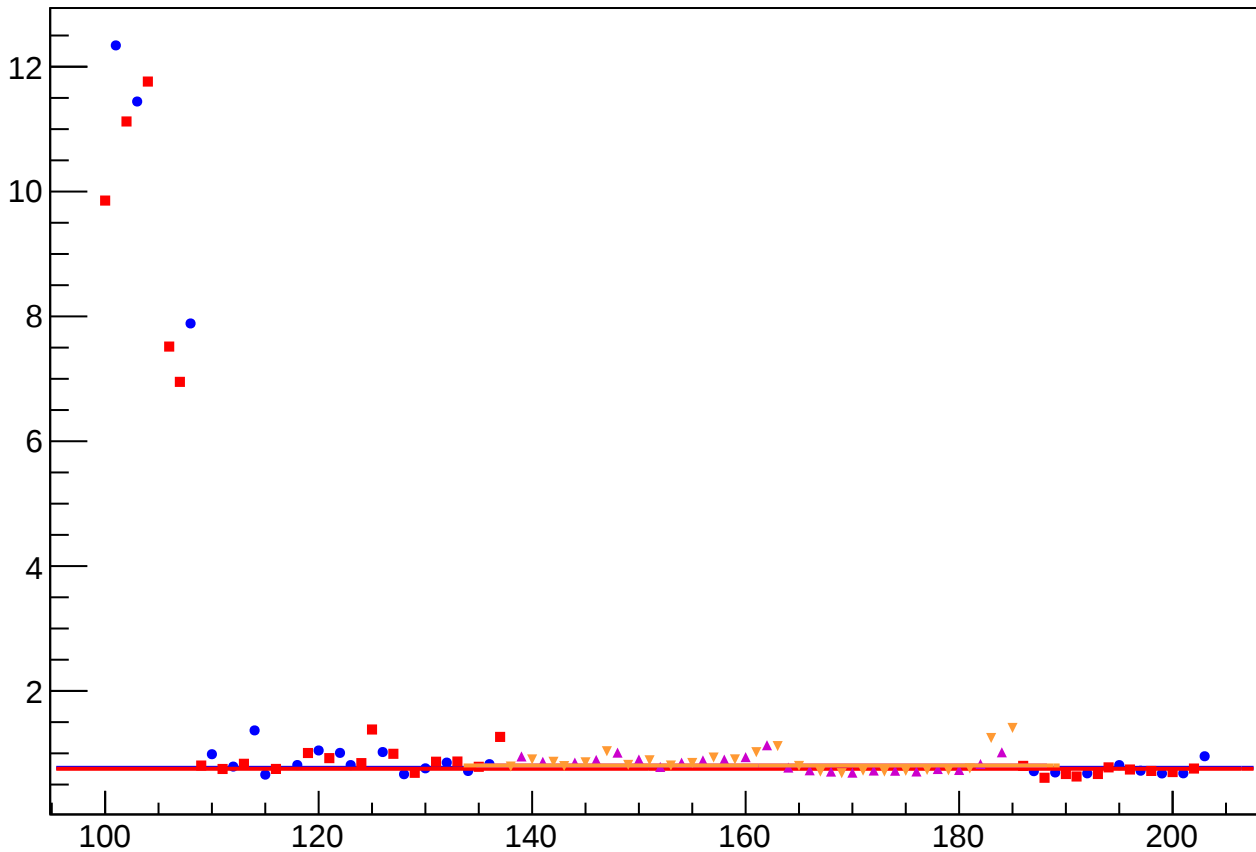
Right: 154.129 $\pm$ 0.000 χ^2 /NDF: 60477236437.6/53

In: 141.313 $\pm$ 0.000 χ^2 /NDF: 33652335103.0/47

Out: 142.846 $\pm$ 0.000 χ^2 /NDF: 43119120069.1/53

All: 142.114 $\pm$ 0.000 χ^2 /NDF: 76817182816.0/100

yield_bcm0l02_rms vs Slug, Sign Corrected



Right In: 0.768 $\pm$ 0.000 χ^2 /NDF: 2872866.1/24

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

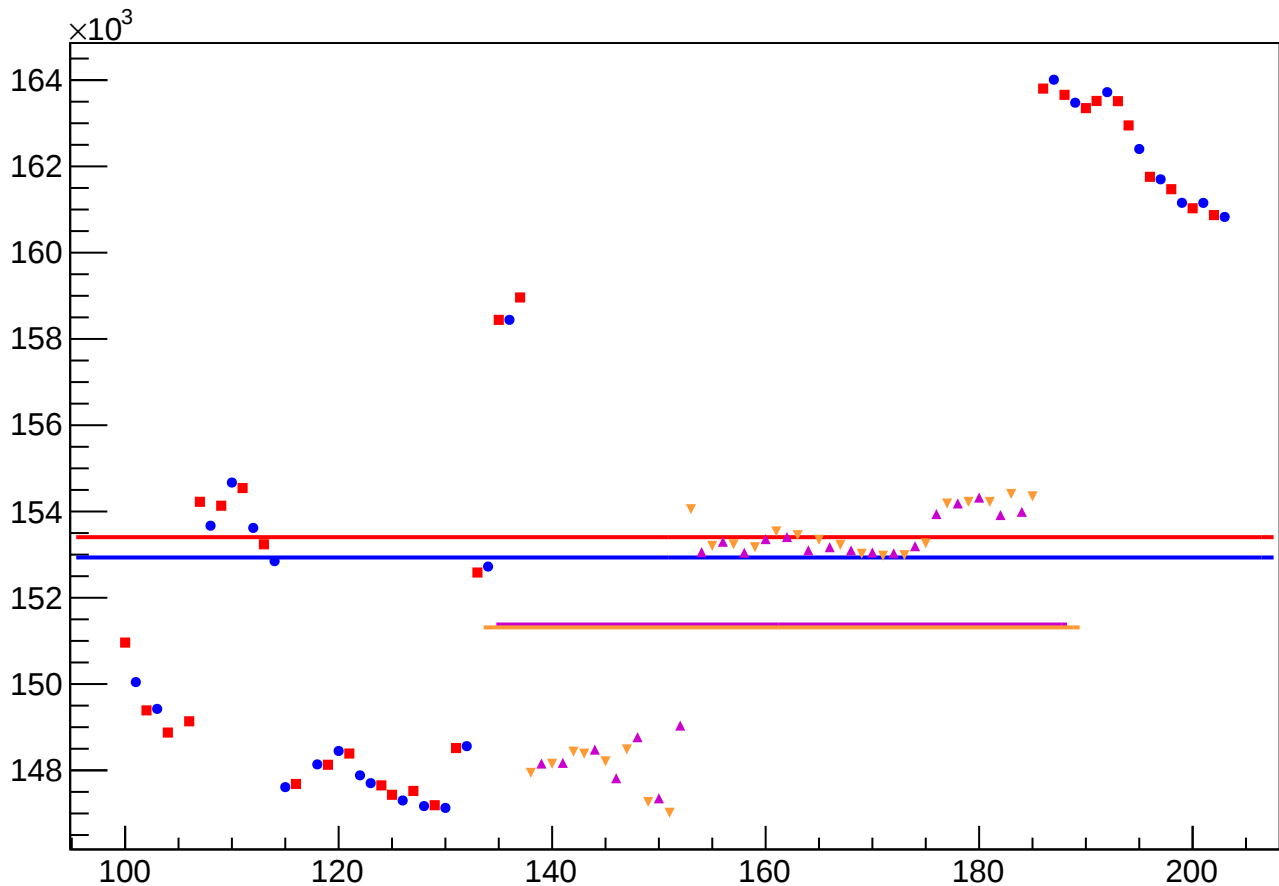
Right: 0.760 $\pm$ 0.000 χ^2 /NDF: 6015110.0/53

In: 0.791 $\pm$ 0.000 χ^2 /NDF:3377133.5/47

Out: 0.784 $\pm$ 0.000 χ^2 /NDF:3885411.6/53

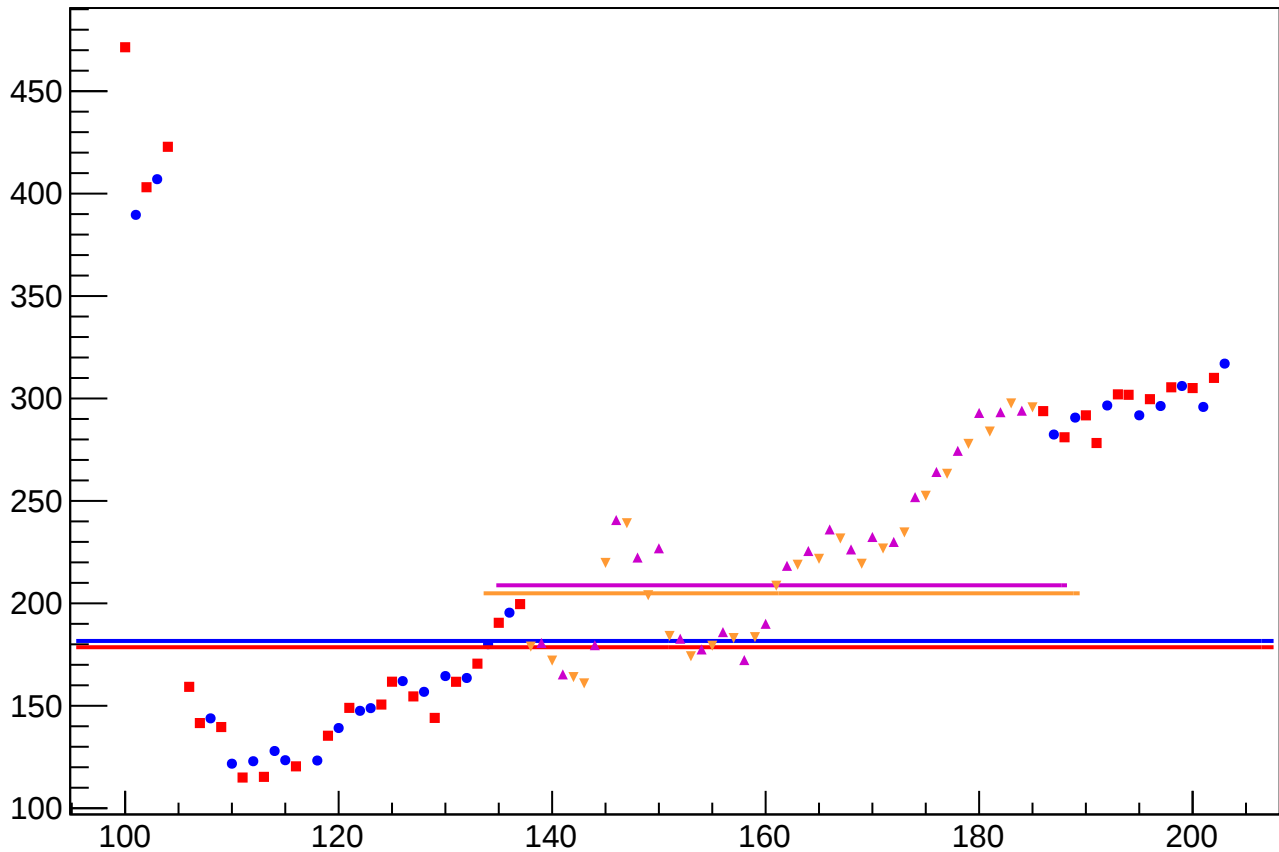
All: 0.787 $\pm$ 0.000 χ^2 /NDF: 7264270.1/101

yield_bpm0i01WS_mean vs Slug, Sign Corrected



Right In: 152933.936 $\pm$ 0.057	χ^2 /NDF: 9834655979.1/24	Left: 151345.082 $\pm$ 0.035	χ^2 /NDF: 5518562148.3/24
Left Out: 151313.284 $\pm$ 0.049	χ^2 /NDF: 3153768134.8/24	Right: 153183.326 $\pm$ 0.039	χ^2 /NDF: 20681976483.1/24
Right Out: 153405.022 $\pm$ 0.053	χ^2 /NDF: 10810569407.4/28	In: 152080.110 $\pm$ 0.038	χ^2 /NDF: 12613533207.5/24
Left In: 151380.236 $\pm$ 0.051	χ^2 /NDF: 2363895785.3/22	Out: 152264.513 $\pm$ 0.036	χ^2 /NDF: 14803832721.5/24
		All: 152177.295 $\pm$ 0.026	χ^2 /NDF: 274298113.1/24

yield_bpm0i01WS_rms vs Slug, Sign Corrected



Right In: 181.647 $\pm$ 0.040 χ^2 /NDF: 3269157.8/24

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

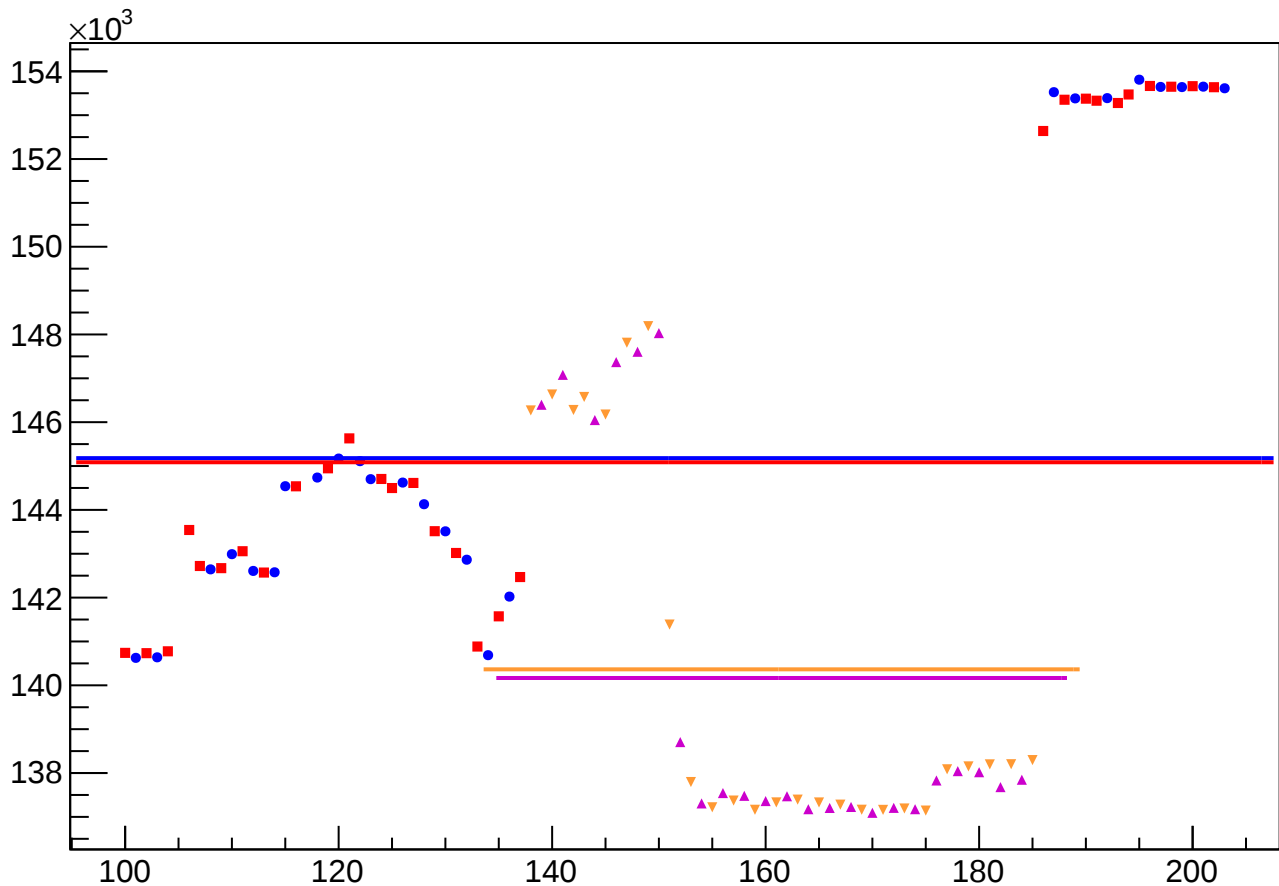
Right: 180.024 $\pm$ 0.027 χ^2 /NDF: 7017107.9/53

In: 196.576 $\pm$ 0.027 χ^2 /NDF:4524810.7/47

Out: 192.931 $\pm$ 0.025 χ^2 /NDF:5067020.4/53

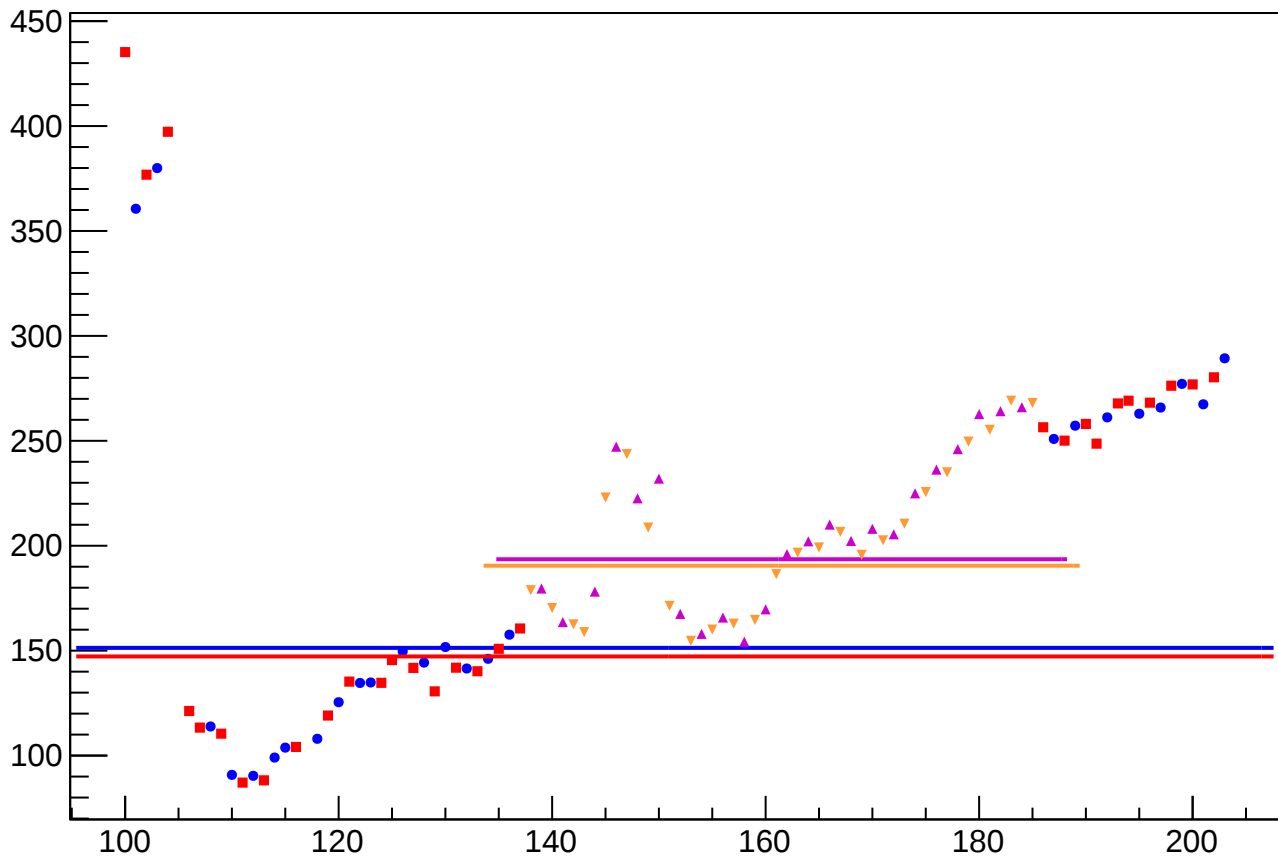
All: 194.655 $\pm$ 0.018 χ^2 /NDF: 9601555.7/103

yield_bpm0i01aWS_mean vs Slug, Sign Corrected



Right In: 145179.995 $\pm$ 0.048	χ^2 /NDF: 7093127685.5/24	Left: 140270.460 $\pm$ 0.033	χ^2 /NDF: 16714620354.4
Left Out: 140364.444 $\pm$ 0.045	χ^2 /NDF: 8677078677.7/24	Right: 145129.538 $\pm$ 0.033	χ^2 /NDF: 15299423741.7
Right Out: 145085.957 $\pm$ 0.045	χ^2 /NDF: 8204230604.2/28	In: 142648.229 $\pm$ 0.034	χ^2 /NDF: 20646311959.7/4
Left In: 140166.971 $\pm$ 0.047	χ^2 /NDF: 8028464654.6/22	Out: 142760.620 $\pm$ 0.032	χ^2 /NDF: 22414514204.6
		All: 142707.833 $\pm$ 0.023	χ^2 /NDF: 430667176

yield_bpm0i01aWS_rms vs Slug, Sign Corrected



Right In: 151.330 $\pm$ 0.034 χ^2/NDF : 3989454.6/24

Left Out: 190.486 $\pm$ 0.032 χ^2/NDF :950233.2/24

Right Out: 147.242 $\pm$ 0.031 χ^2/NDF : 4545317.6/28

Left In: 193.558 $\pm$ 0.034 χ^2/NDF :963675.0/22

Left: 191.948 $\pm$ 0.023 χ^2/NDF : 1918302.4/47

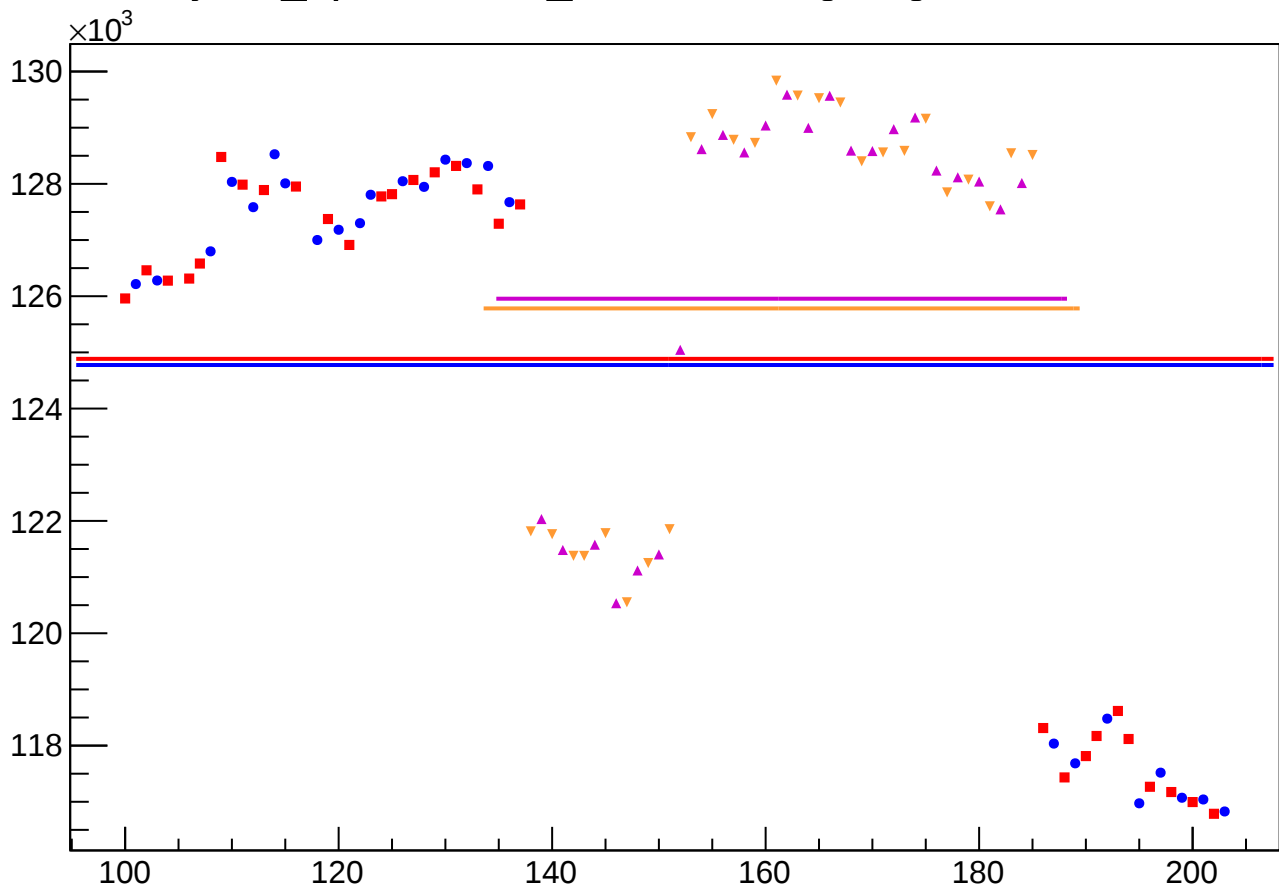
Right: 149.136 $\pm$ 0.023 χ^2/NDF : 8542577.9/53

In: 172.657 $\pm$ 0.024 χ^2/NDF :5737201.6/47

Out: 168.539 $\pm$ 0.022 χ^2/NDF :6423875.7/53

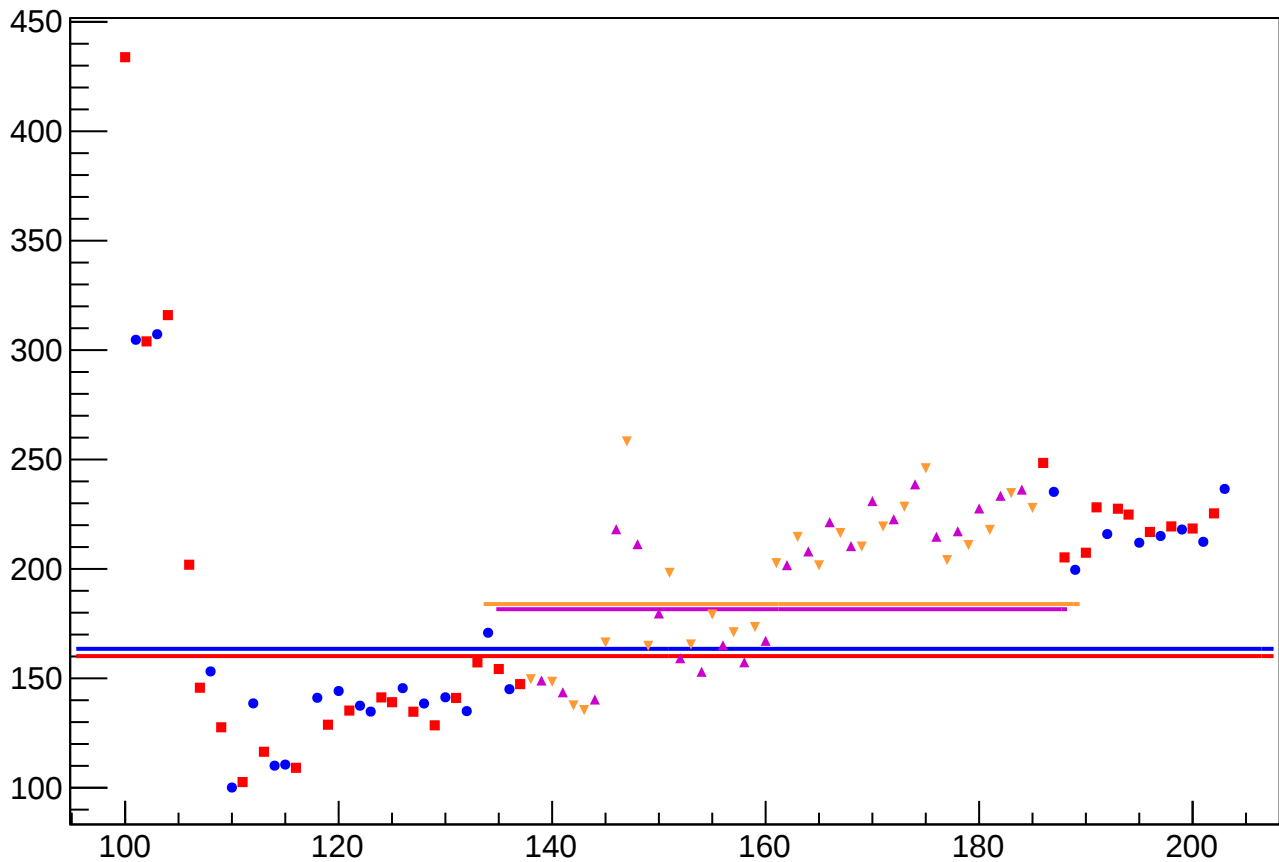
All: 170.473 $\pm$ 0.016 χ^2/NDF : 12176889.5/100

yield_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: 124775.319 $\pm$ 0.049	χ^2 /NDF: 9055574268.5/24	Left: 125867.639 $\pm$ 0.031	χ^2 /NDF: 12541428458.9/24
Left Out: 125782.764 $\pm$ 0.044	χ^2 /NDF: 6729761889.8/24	Right: 124833.440 $\pm$ 0.034	χ^2 /NDF: 18897374585.9/24
Right Out: 124884.858 $\pm$ 0.046	χ^2 /NDF: 9839172391.7/28	In: 125420.770 $\pm$ 0.033	χ^2 /NDF: 15174132916.2/24
Left In: 125955.637 $\pm$ 0.045	χ^2 /NDF: 5804088930.1/22	Out: 125356.583 $\pm$ 0.032	χ^2 /NDF: 16766564467.2/24
		All: 125387.454 $\pm$ 0.023	χ^2 /NDF: 319426453.1/24

yield_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 163.480 $\pm$ 0.035 χ^2 /NDF: 1771048.0/24

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

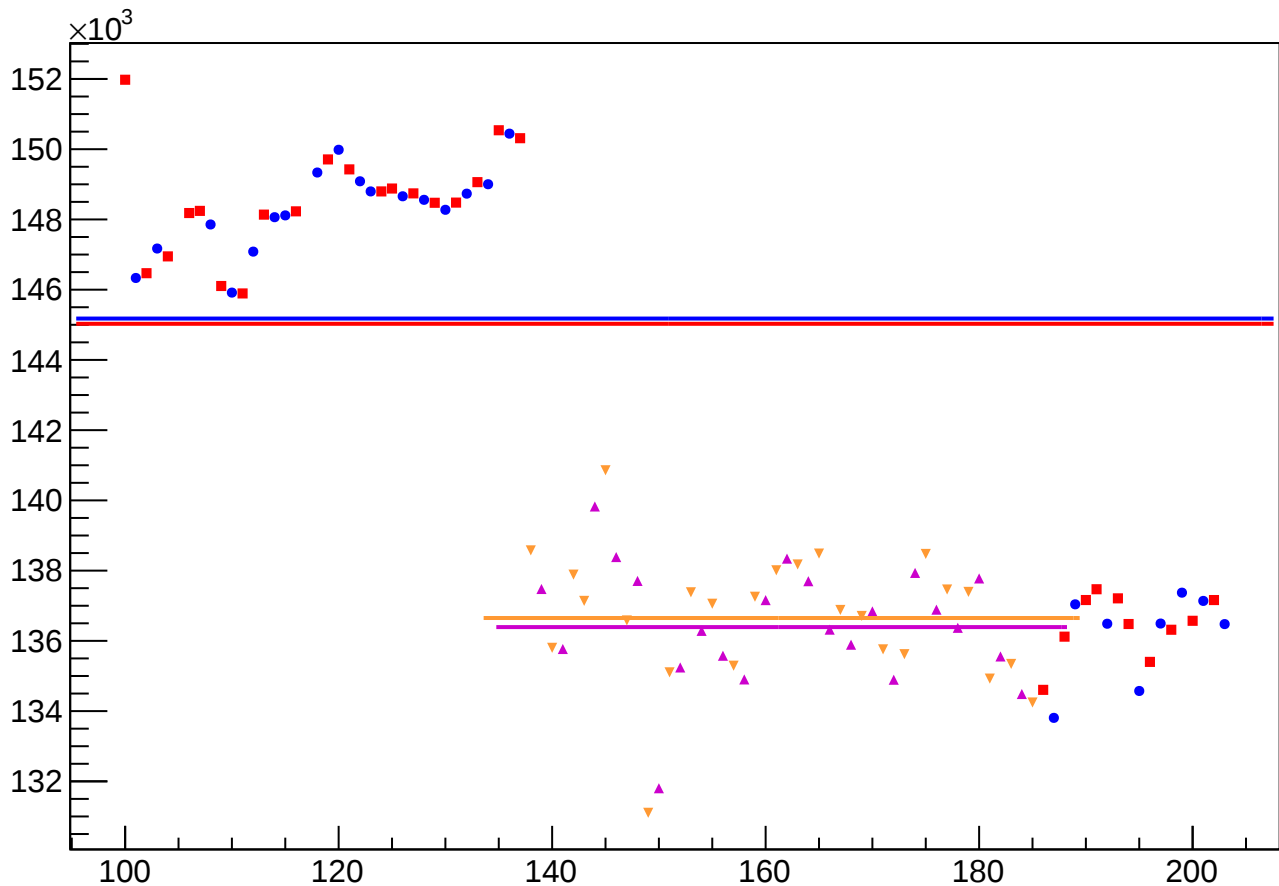
Right: 161.723 $\pm$ 0.024 χ^2 /NDF: 4041775.4/53

In: 173.386 $\pm$ 0.023 χ^2 /NDF:3022736.4/47

Out: 172.661 $\pm$ 0.023 χ^2 /NDF:3666303.3/53

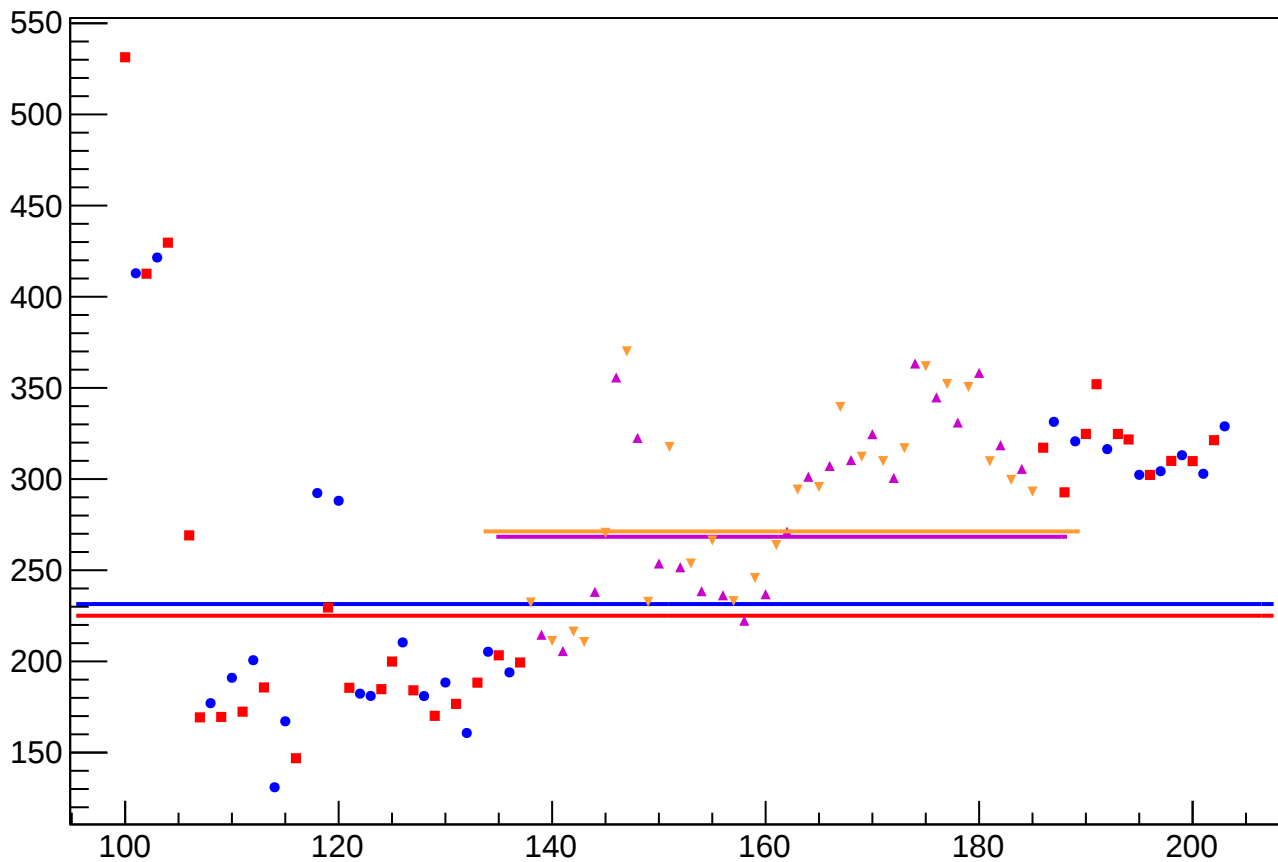
All: 173.010 $\pm$ 0.016 χ^2 /NDF: 6689537.4/103

yield_bpm0l02WS_mean vs Slug, Sign Corrected



Right In: 145177.717 $\pm$ 0.070	χ^2 /NDF: 6273153393.5/24	Left: 136524.219 $\pm$ 0.046	χ^2 /NDF: 1640486942.5/24
Left Out: 136650.935 $\pm$ 0.065	χ^2 /NDF: 930649595.5/24	Right: 145097.688 $\pm$ 0.048	χ^2 /NDF: 13278103486.6/24
Right Out: 145028.369 $\pm$ 0.065	χ^2 /NDF: 7002510120.9/28	In: 140525.282 $\pm$ 0.048	χ^2 /NDF: 15319434764.3/24
Left In: 136392.188 $\pm$ 0.066	χ^2 /NDF: 701986841.4/22	Out: 140806.581 $\pm$ 0.046	χ^2 /NDF: 16268761338.9/24
		All: 140672.302 $\pm$ 0.033	χ^2 /NDF: 316061424.0/24

yield_bpm0l02WS_rms vs Slug, Sign Corrected



Right In: 231.455 $\pm$ 0.049 χ^2 /NDF: 1965059.3/24

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

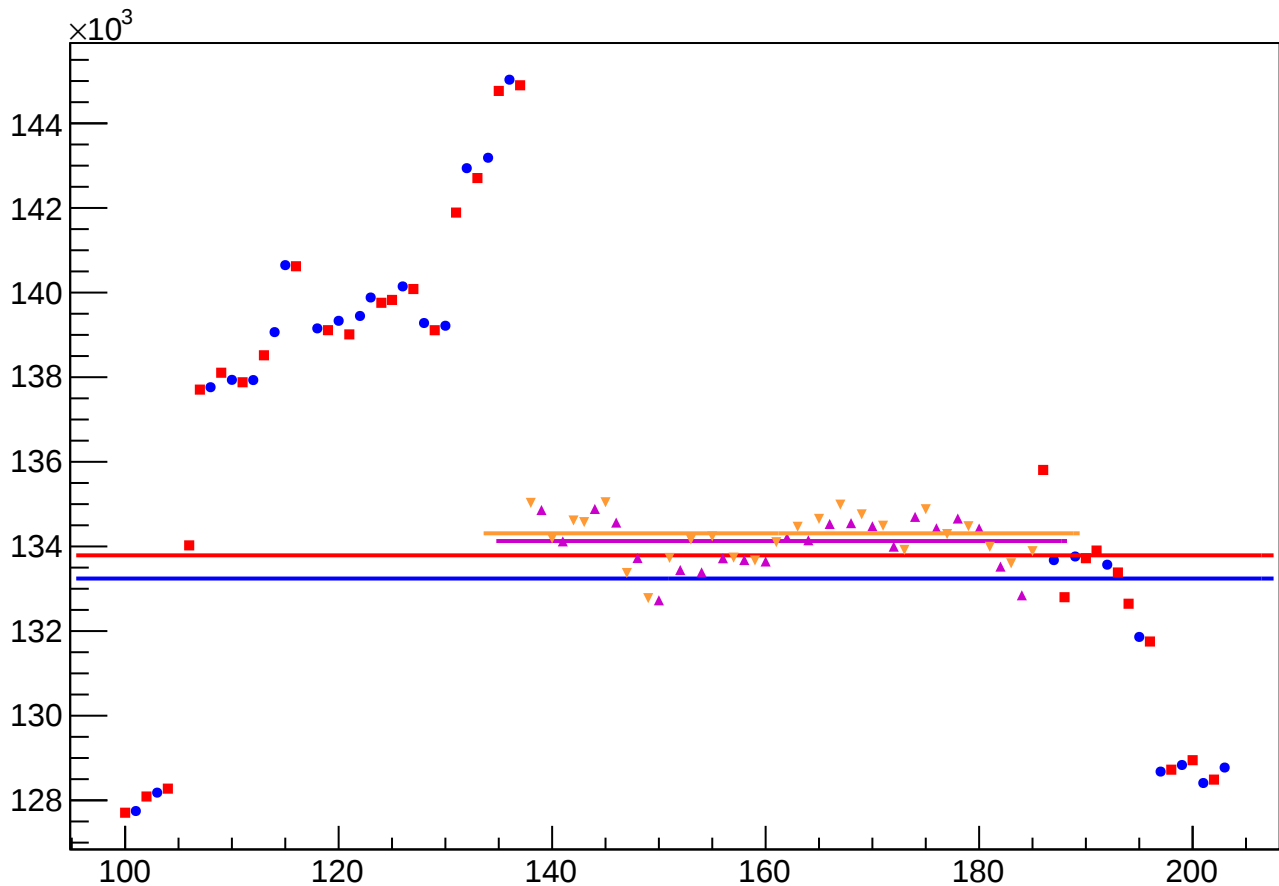
Right: 228.032 $\pm$ 0.034 χ^2 /NDF: 4203681.6/53

In: 250.989 $\pm$ 0.034 χ^2 /NDF:3336641.7/47

Out: 248.364 $\pm$ 0.032 χ^2 /NDF:3801814.7/53

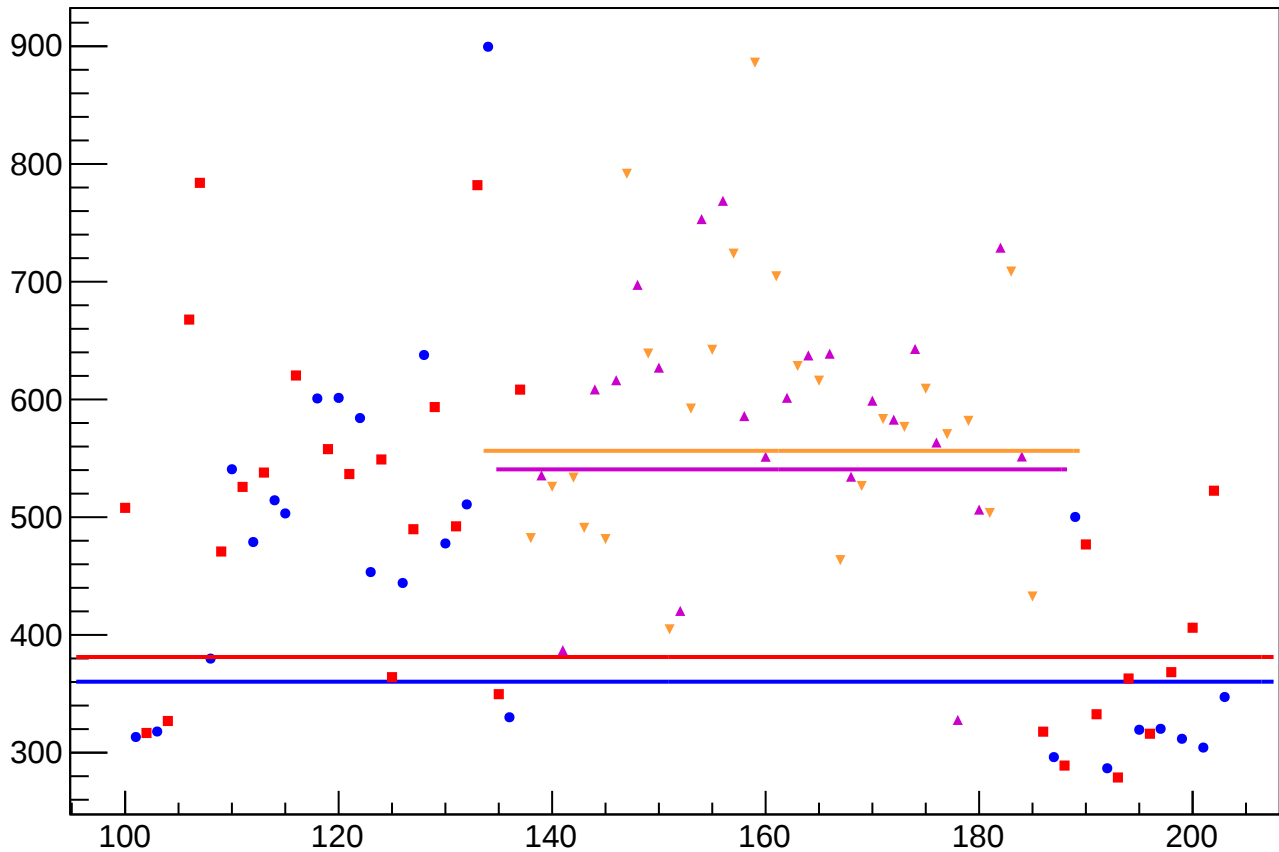
All: 249.617 $\pm$ 0.023 χ^2 /NDF: 7141583.6/103

yield_bpm0l03WS_mean vs Slug, Sign Corrected



Right In: 133241.533 $\pm$ 0.116	χ^2/NDF : 2383257592.6/24	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: 133507.381 $\pm$ 0.083	χ^2/NDF : 3885324573.1/24
Right Out: 133789.604 $\pm$ 0.120	χ^2/NDF : 1491246873.5/28	In: 133596.595 $\pm$ 0.090	χ^2/NDF : 2422169598.0/47
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: 133802.671 $\pm$ 0.064	χ^2/NDF : 394762727.0/100

yield_bpm0l03WS_rms vs Slug, Sign Corrected



Right In: 360.277 ± 0.082 χ^2/NDF : 1253751.8/24

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

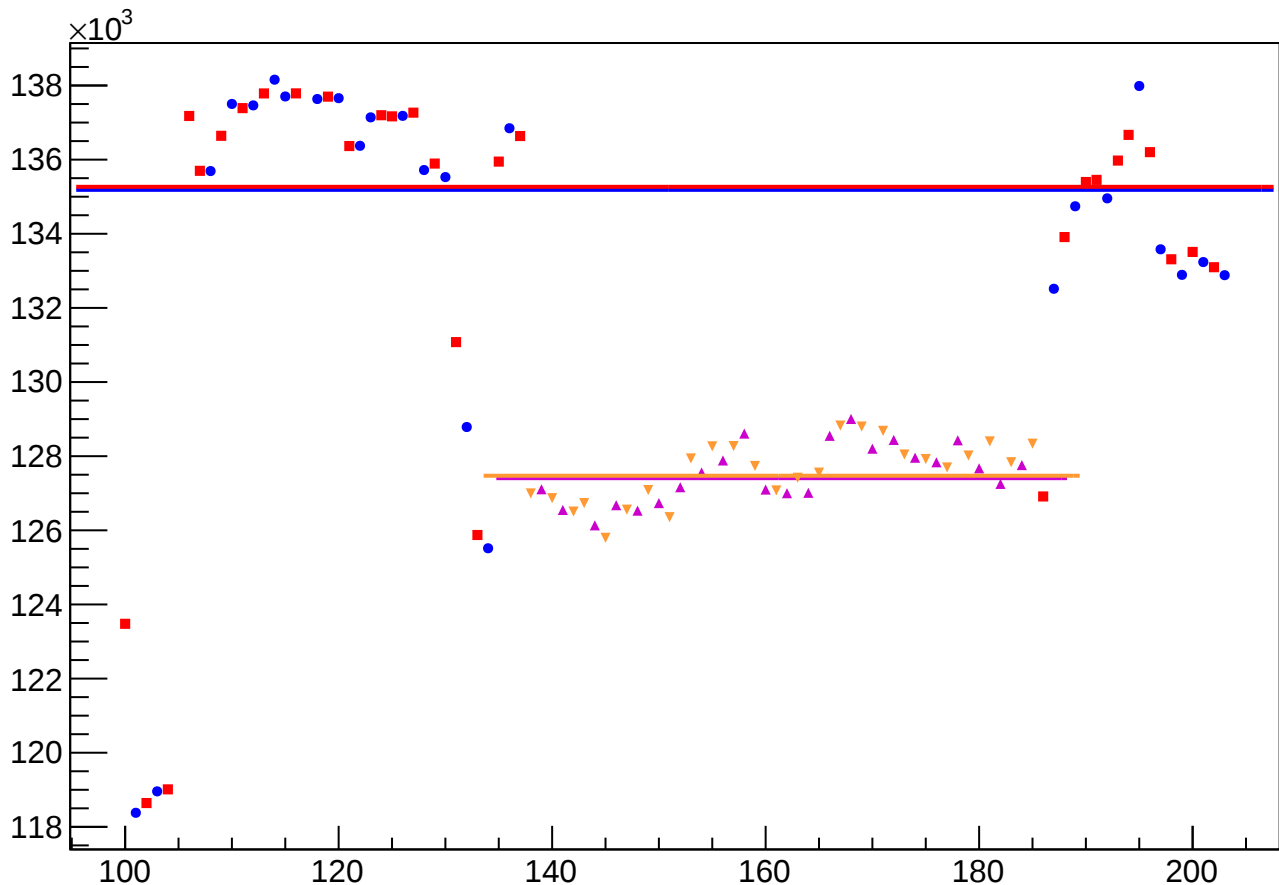
Right: 370.448 ± 0.059 χ^2/NDF : 2887778.1/53

In: 432.492 ± 0.064 χ^2/NDF : 4596889.7/47

Out: 455.997 ± 0.064 χ^2/NDF : 4435966.1/53

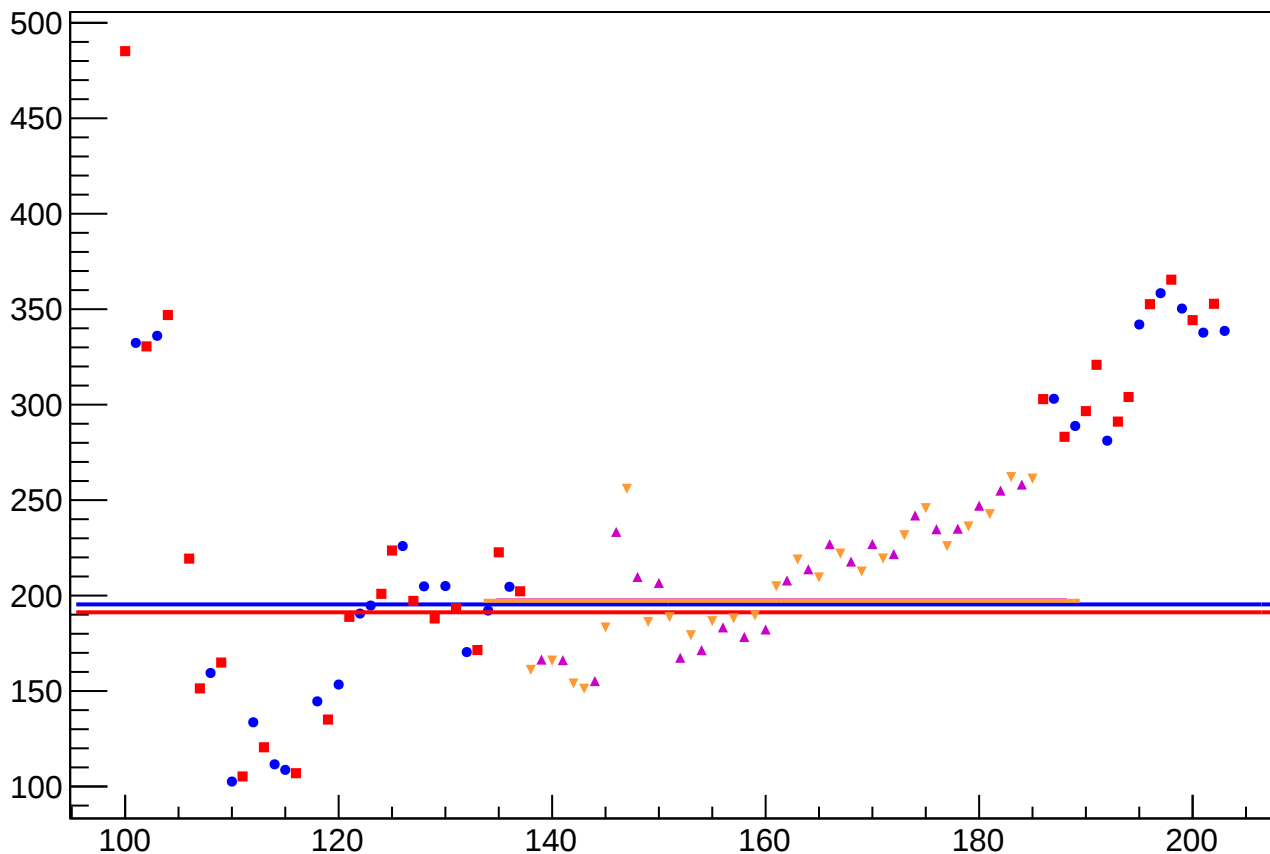
All: 444.157 ± 0.045 χ^2/NDF : 9100782.0/103

yield_bpm0l04WS_mean vs Slug, Sign Corrected



Right In: 135184.980 $\pm$ 0.061	χ^2 /NDF: 4769024122.5/24	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: 135228.425 $\pm$ 0.042	χ^2 /NDF: 9913101044.2/24
Right Out: 135266.554 $\pm$ 0.057	χ^2 /NDF: 5143134158.1/28	In: 130390.254 $\pm$ 0.038	χ^2 /NDF: 14959692933.1/47
Left In: 127406.911 $\pm$ 0.048	χ^2 /NDF: 269927988.0/22	Out: 130586.766 $\pm$ 0.036	χ^2 /NDF: 16502490292.7/24
		All: 130492.912 $\pm$ 0.026	χ^2 /NDF: 314761744.0/24

yield_bpm0l04WS_rms vs Slug, Sign Corrected



Right In: 195.376+/-0.043 χ^2/NDF : 3439639.6/24

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

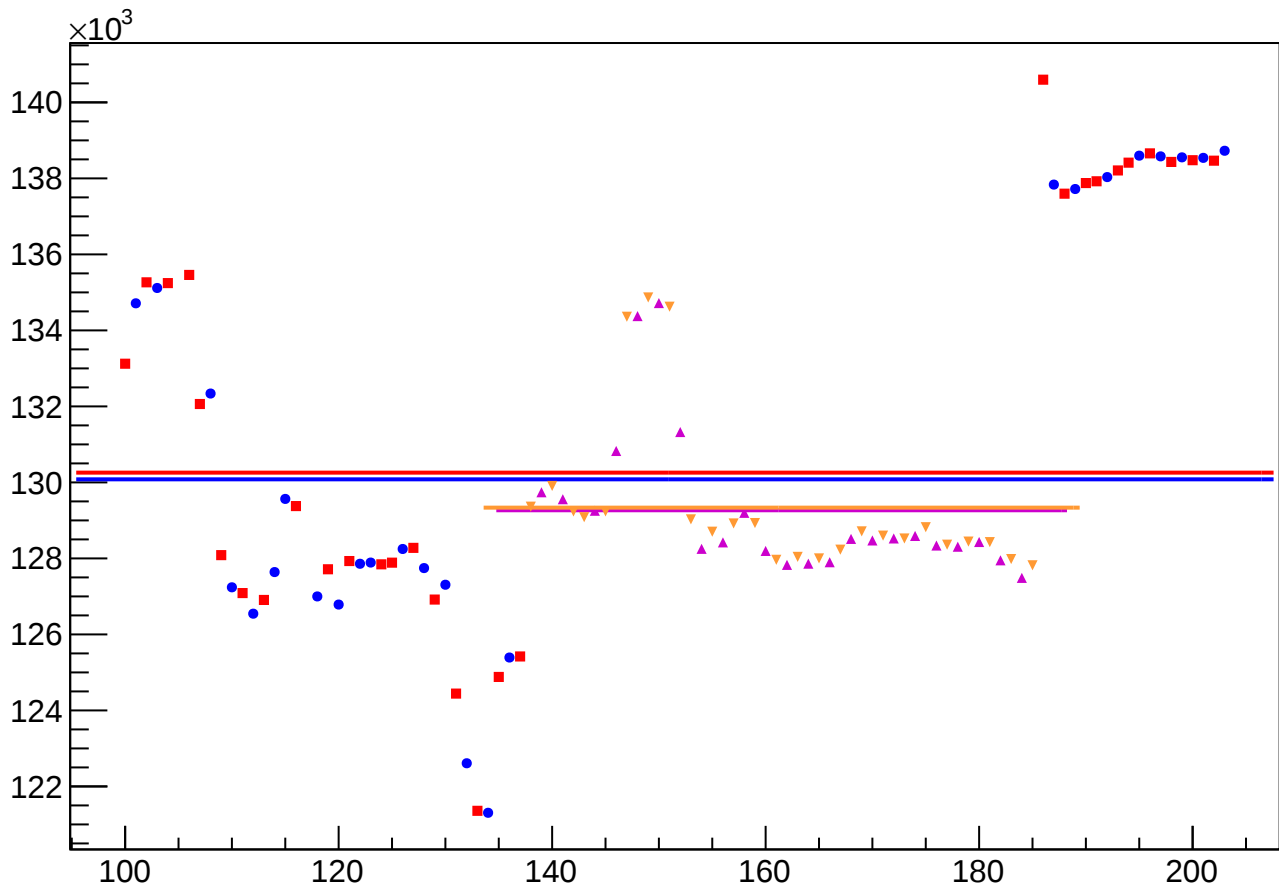
Right: 193.170+/-0.030 χ^2/NDF : 7411845.6/53

In: 196.667+/-0.027 χ^2/NDF : 4232656.8/47

Out: 194.870+/-0.026 χ^2/NDF : 4832716.8/53

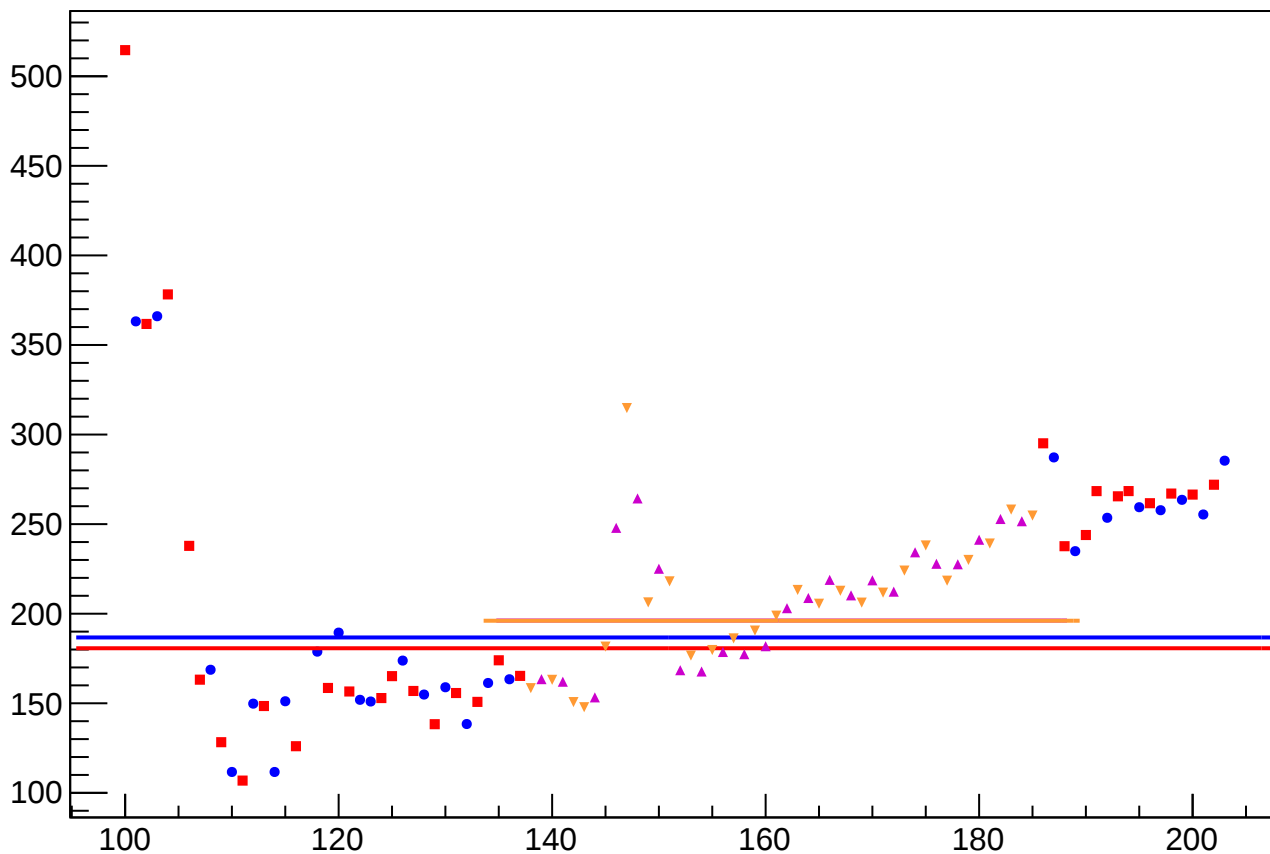
All: 195.728+/-0.019 χ^2/NDF : 9067715.7/103

yield_bpm0l05WS_mean vs Slug, Sign Corrected



Right In: 130080.713 $\pm$ 0.057	χ^2/NDF : 9386902154.3/24	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: 130175.280 $\pm$ 0.039	χ^2/NDF : 19638768161.0/24
Right Out: 130257.179 $\pm$ 0.053	χ^2/NDF : 10246723466.1/28	In: 129606.076 $\pm$ 0.037	χ^2/NDF : 10719695666.8/24
Left In: 129266.909 $\pm$ 0.048	χ^2/NDF : 1213762773.1/22	Out: 129738.737 $\pm$ 0.035	χ^2/NDF : 11867603569.9/24
		All: 129675.585 $\pm$ 0.025	χ^2/NDF : 225941173.1/24

yield_bpm0l05WS_rms vs Slug, Sign Corrected



Right In: 186.741 $\pm$ 0.040 χ^2 /NDF: 2141096.2/24

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

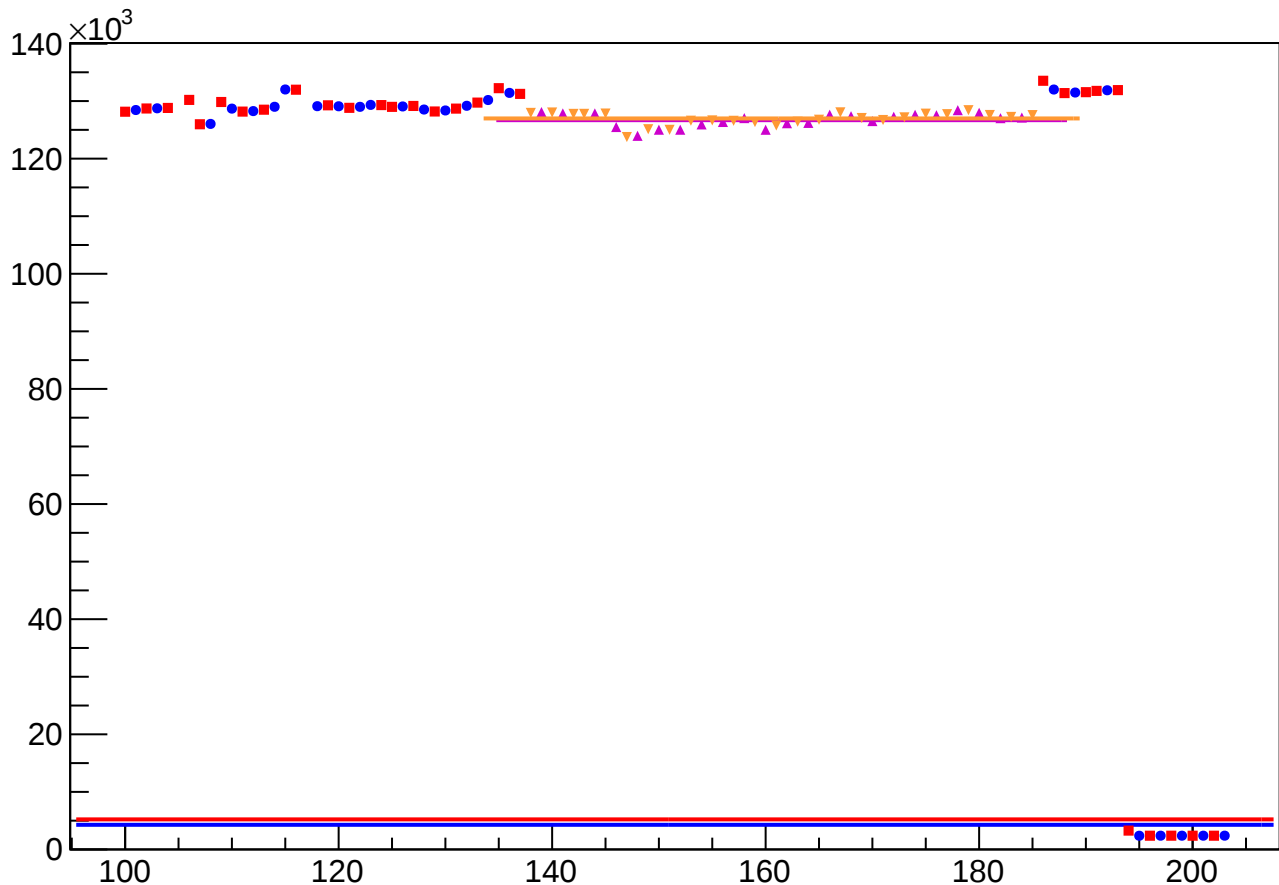
Right: 183.512 $\pm$ 0.027 χ^2 /NDF: 4902682.0/53

In: 192.250 $\pm$ 0.026 χ^2 /NDF: 3071222.5/47

Out: 189.361 $\pm$ 0.025 χ^2 /NDF: 3819819.5/53

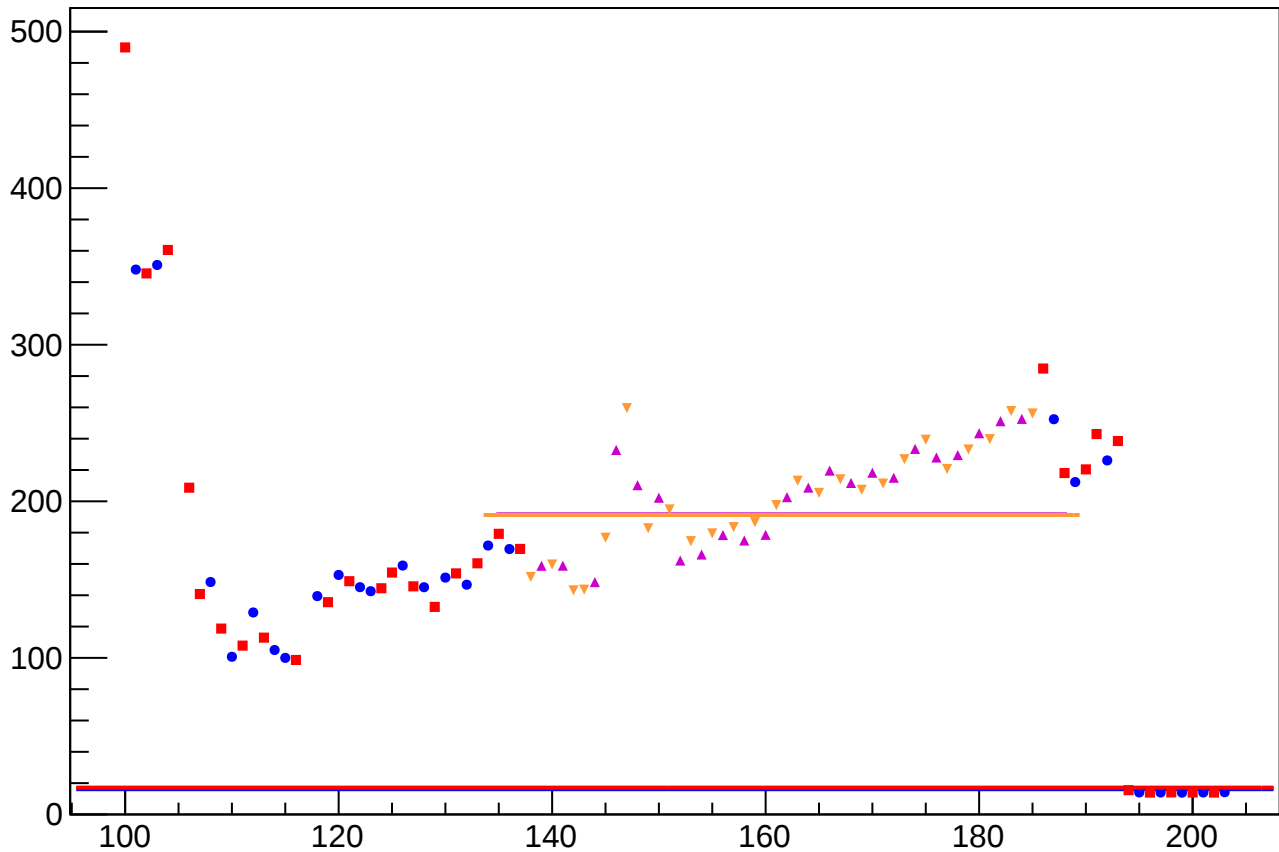
All: 190.736 $\pm$ 0.018 χ^2 /NDF: 6897508.9/102

yield_bpm0l06WS_mean vs Slug, Sign Corrected



Right In: 4283.111 $\pm$ 0.007	χ^2/NDF : 4858004343011.5/24	Left: 126836.943 $\pm$ 0.033	χ^2/NDF : 1211882944.2/24
Left Out: 126981.724 $\pm$ 0.046	χ^2/NDF : 530573115.8/24	Right: 4706.394 $\pm$ 0.005	χ^2/NDF : 10620052065183
Right Out: 5224.050 $\pm$ 0.008	χ^2/NDF : 5753875053785.6/28	In: 6925.919 $\pm$ 0.007	χ^2/NDF : 11496359182567.1
Left In: 126682.659 $\pm$ 0.047	χ^2/NDF : 660415880.0/22	Out: 8627.869 $\pm$ 0.008	χ^2/NDF : 12708239041093
		All: 7694.294 $\pm$ 0.005	χ^2/NDF : 24232024783

yield_bpm0l06WS_rms vs Slug, Sign Corrected



Right In: 16.133 ± 0.005 $\chi^2/\text{NDF}: 13227269.3/24$

Left Out: 191.263 ± 0.032 $\chi^2/\text{NDF}: 992566.2/24$

Right Out: 17.137 ± 0.005 $\chi^2/\text{NDF}: 15439279.3/28$

Left In: 191.683 ± 0.033 $\chi^2/\text{NDF}: 864384.9/22$

Left: 191.466 ± 0.023 $\chi^2/\text{NDF}: 1857033.4/47$

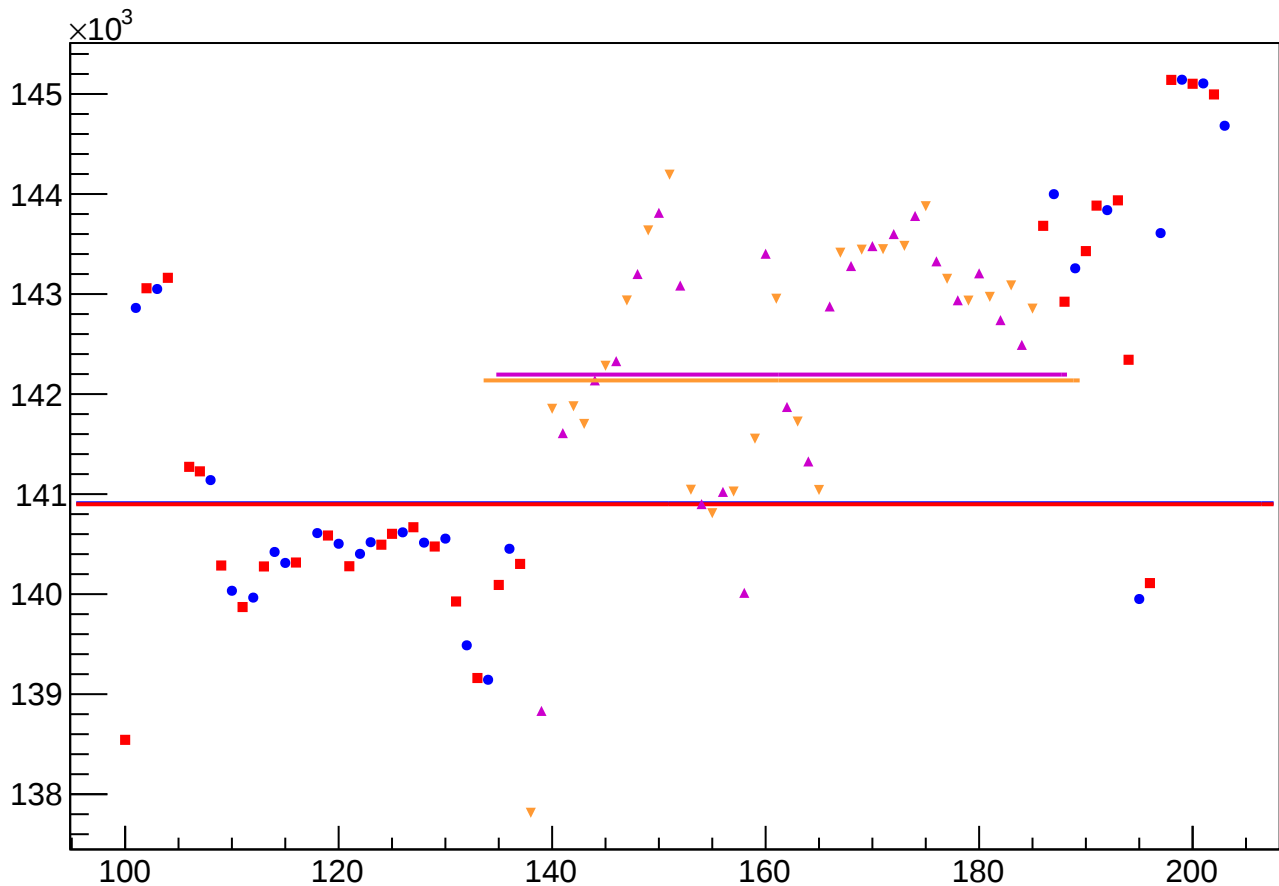
Right: 16.585 ± 0.004 $\chi^2/\text{NDF}: 28685149.6/53$

In: 19.924 ± 0.005 $\chi^2/\text{NDF}: 41399436.9/47$

Out: 22.005 ± 0.005 $\chi^2/\text{NDF}: 44875779.6/53$

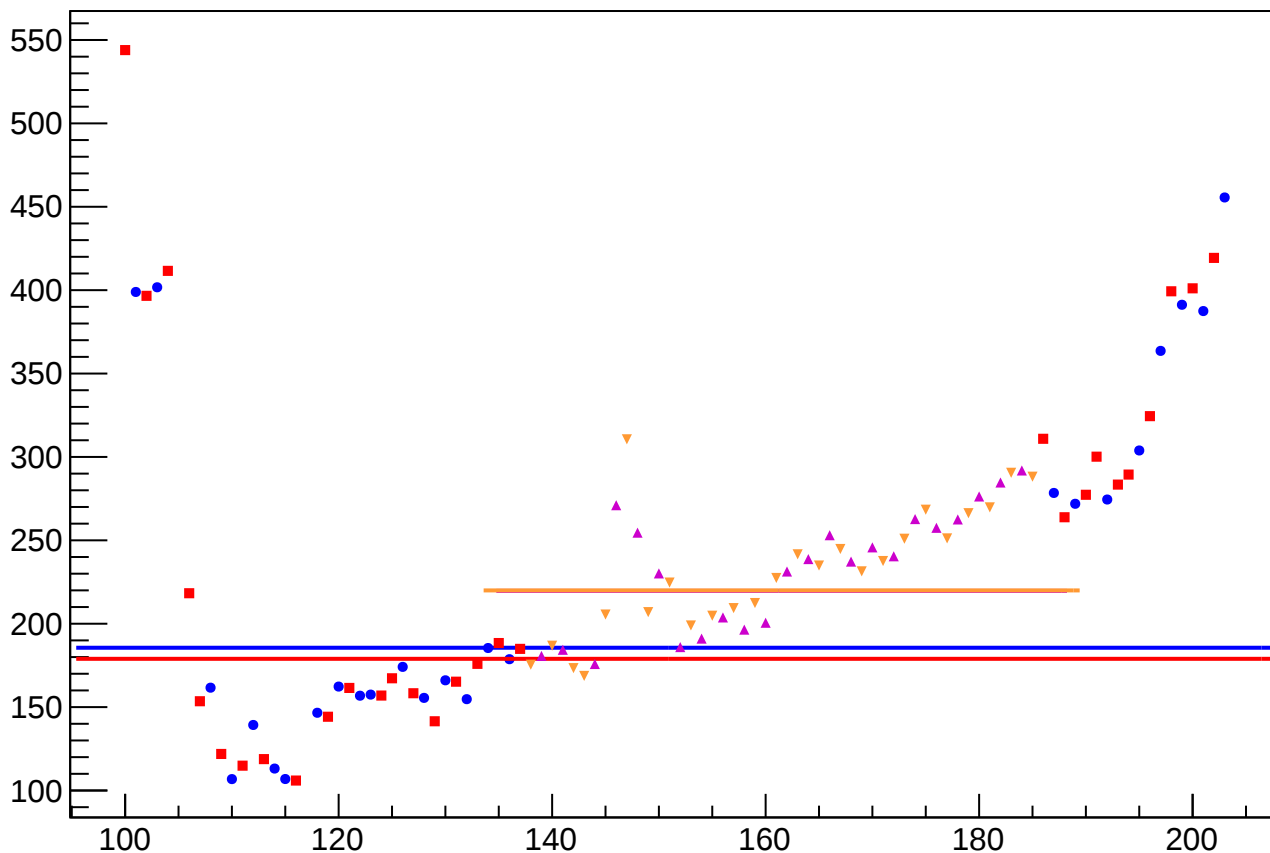
All: 20.863 ± 0.004 $\chi^2/\text{NDF}: 86357237.9/103$

yield_bpm0l07WS_mean vs Slug, Sign Corrected



Right In: 140908.318 $\pm$ 0.059 χ^2 /NDF: 599972747.6/24
 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: 140903.077 $\pm$ 0.040 χ^2 /NDF: 1249960835.6/4
 In: 141607.258 $\pm$ 0.040 χ^2 /NDF: 1504683633.1/4
 Out: 141538.113 $\pm$ 0.038 χ^2 /NDF: 1736139930.0/5
 All: 141570.817 $\pm$ 0.027 χ^2 /NDF: 324242242

yield_bpm0l07WS_rms vs Slug, Sign Corrected



Right In: 185.598+/-0.042 χ^2/NDF : 3924158.2/24

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

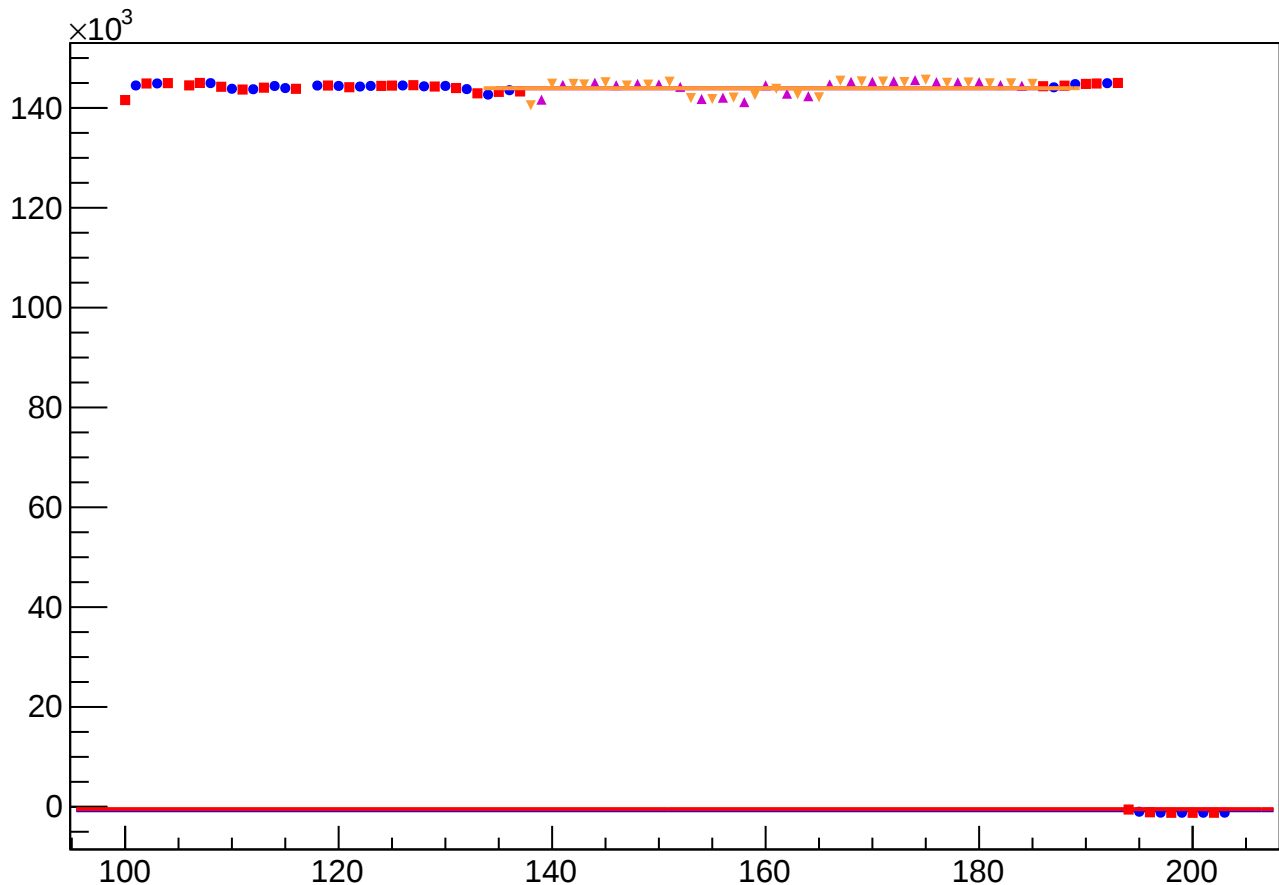
Right: 182.004+/-0.028 χ^2/NDF : 8318335.0/53

In: 204.114+/-0.028 χ^2/NDF : 5102786.4/47

Out: 200.142+/-0.027 χ^2/NDF : 5840960.5/53

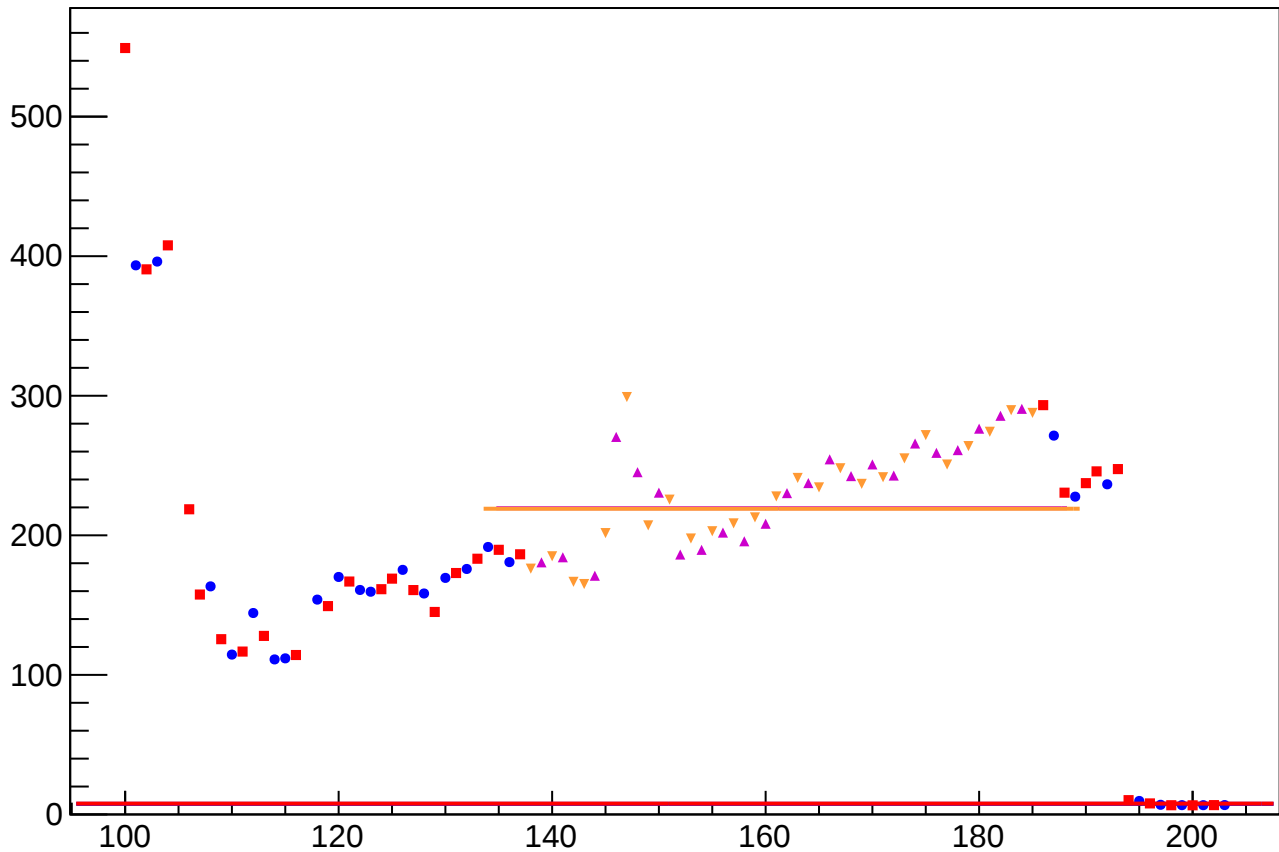
All: 202.021+/-0.019 χ^2/NDF : 10954299.7/10

yield_bpm0l08WS_mean vs Slug, Sign Corrected



Right In: -690.572 ± 0.004 $\chi^2/\text{NDF}: 5288456100552.5/24$
 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 $\chi^2/\text{NDF}: 719814685.6/22$
 Left: 143944.995 ± 0.037 $\chi^2/\text{NDF}: 1584524299.4/24$
 Right: -588.565 ± 0.003 $\chi^2/\text{NDF}: 11674809261198$
 In: -56.662 ± 0.004 $\chi^2/\text{NDF}: 12473283144924.6/4$
 Out: 349.343 ± 0.004 $\chi^2/\text{NDF}: 14015115850658.8$
 All: 127.320 ± 0.003 $\chi^2/\text{NDF}: 26494277995$

yield_bpm0l08WS_rms vs Slug, Sign Corrected



Right In: 7.593 $\pm$ 0.003 χ^2 /NDF: 14872608.6/24

Left Out: 219.050 $\pm$ 0.037 χ^2 /NDF:934417.6/24

Right Out: 7.780 $\pm$ 0.003 χ^2 /NDF: 17391415.9/28

Left In: 219.426 $\pm$ 0.038 χ^2 /NDF:850089.5/22

Left: 219.232 $\pm$ 0.026 χ^2 /NDF: 1784557.4/47

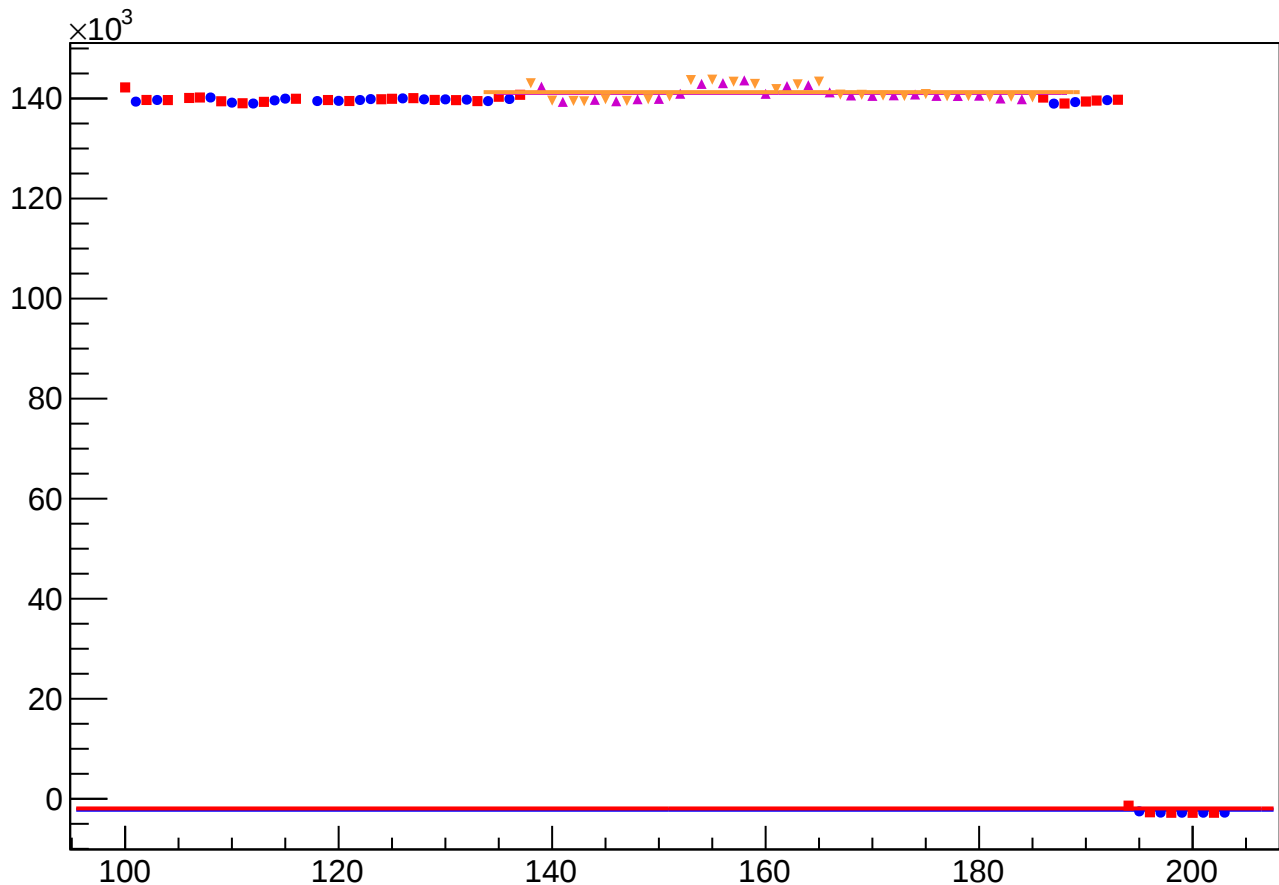
Right: 7.678 $\pm$ 0.002 χ^2 /NDF: 32266488.1/53

In: 8.522 $\pm$ 0.003 χ^2 /NDF:46545911.9/47

Out: 8.971 $\pm$ 0.003 χ^2 /NDF:50983050.8/53

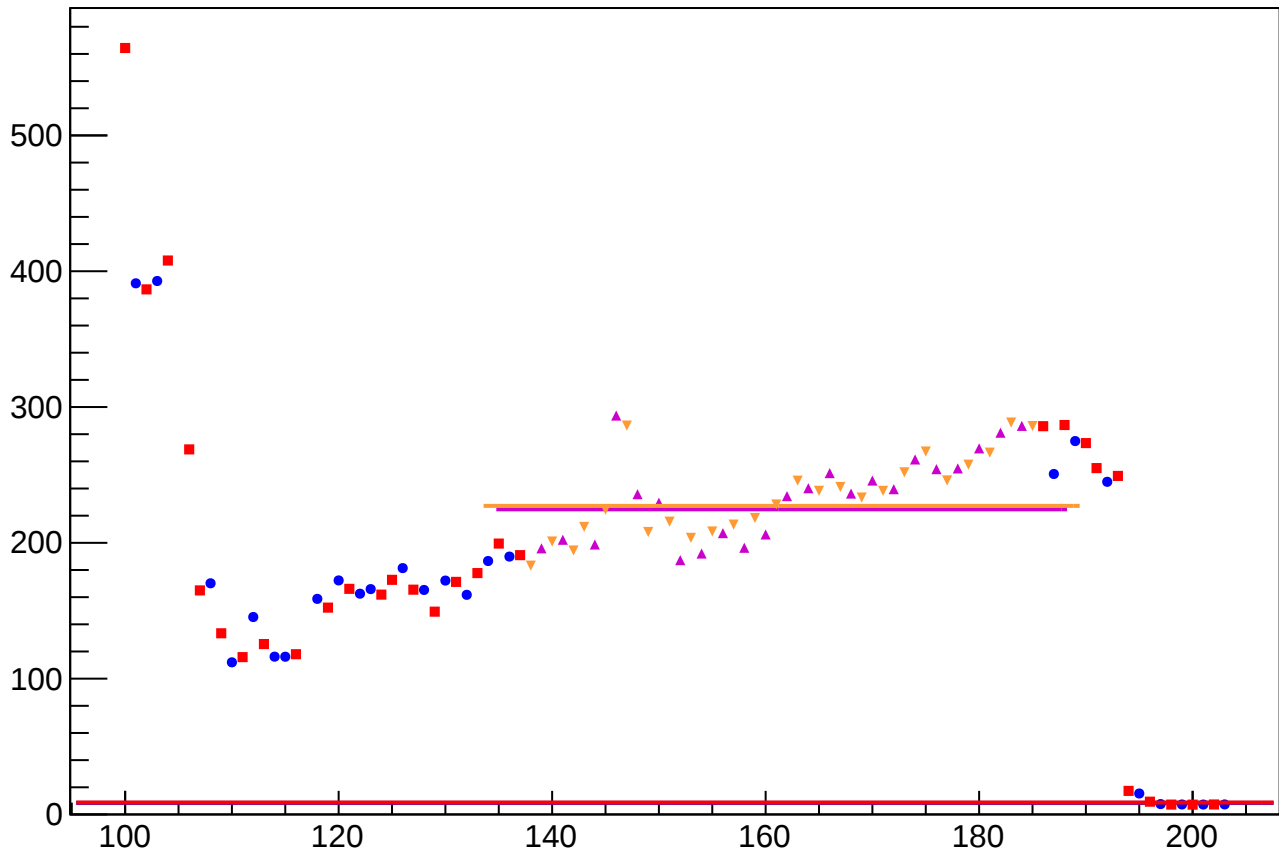
All: 8.725 $\pm$ 0.002 χ^2 /NDF: 97543383.2/101

yield_bpm0l09WS_mean vs Slug, Sign Corrected



Right In: -2187.364 $\pm$ 0.004	χ^2 /NDF: 4856441980473.6/24	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: -2069.615 $\pm$ 0.003	χ^2 /NDF: 1063056493766
Right Out: -1927.268 $\pm$ 0.004	χ^2 /NDF: 5772269615710.0/28	In: -1406.368 $\pm$ 0.004	χ^2 /NDF: 11629974315499.9
Left In: 141119.484 $\pm$ 0.055	χ^2 /NDF: 565312728.1/22	Out: -942.059 $\pm$ 0.004	χ^2 /NDF: 12835131300093.6
		All: -1196.003 $\pm$ 0.003	χ^2 /NDF: 2447104875

yield_bpm0l09WS_rms vs Slug, Sign Corrected



Right In: 8.533 $\pm$ 0.003 χ^2 /NDF: 15011251.5/24

Left Out: 227.224 $\pm$ 0.038 χ^2 /NDF:484955.3/24

Right Out: 8.777 $\pm$ 0.003 χ^2 /NDF: 17406263.7/28

Left In: 224.686 $\pm$ 0.039 χ^2 /NDF:578366.0/22

Left: 225.984 $\pm$ 0.027 χ^2 /NDF: 1065504.5/47

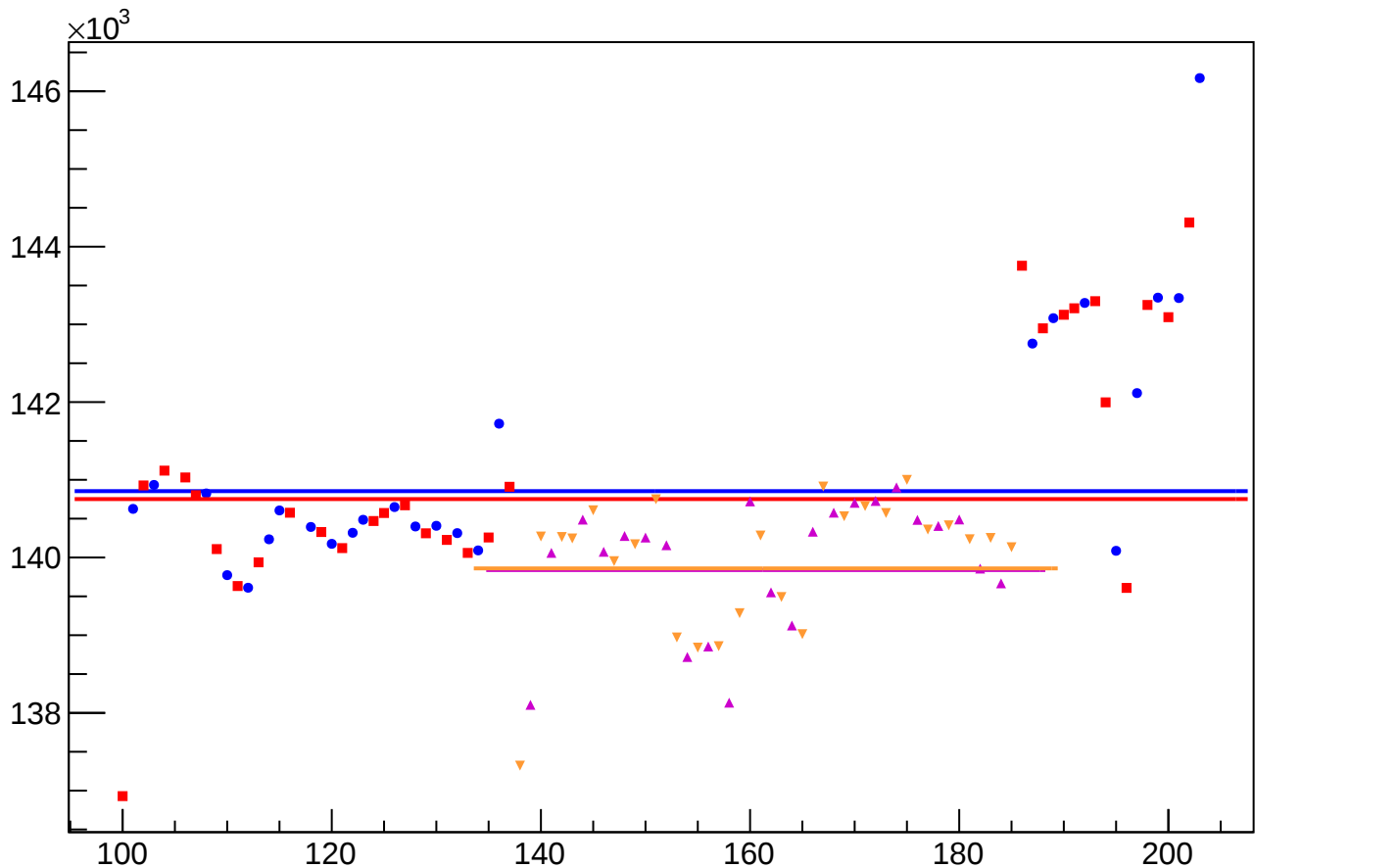
Right: 8.643 $\pm$ 0.002 χ^2 /NDF: 32420785.4/53

In: 9.711 $\pm$ 0.003 χ^2 /NDF:46407318.7/47

Out: 10.280 $\pm$ 0.003 χ^2 /NDF:50760622.7/53

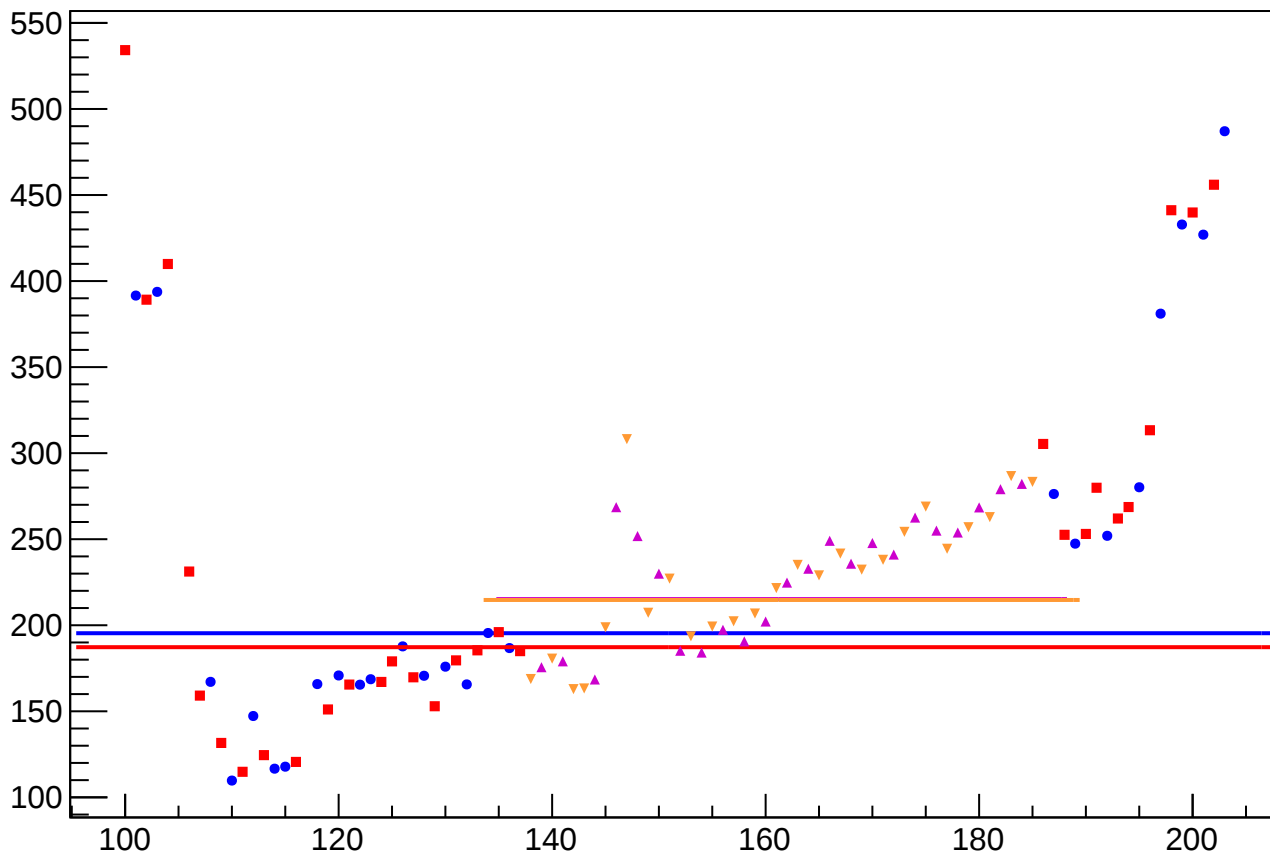
All: 9.969 $\pm$ 0.002 χ^2 /NDF: 97185807.9/101

yield_bpm0l10WS_mean vs Slug, Sign Corrected



Right In: 140854.061 $\pm$ 0.061	χ^2 /NDF: 403440842.1/24	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: 140798.290 $\pm$ 0.041	χ^2 /NDF: 831586814.2/50
Right Out: 140751.818 $\pm$ 0.056	χ^2 /NDF: 426637853.4/28	In: 140269.623 $\pm$ 0.040	χ^2 /NDF: 839956949.0/47
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: 140266.634 $\pm$ 0.027	χ^2 /NDF: 173486150.0/100

yield_bpm0l10WS_rms vs Slug, Sign Corrected



Right In: 195.369 $\pm$ 0.043 χ^2 /NDF: 3619829.7/24

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

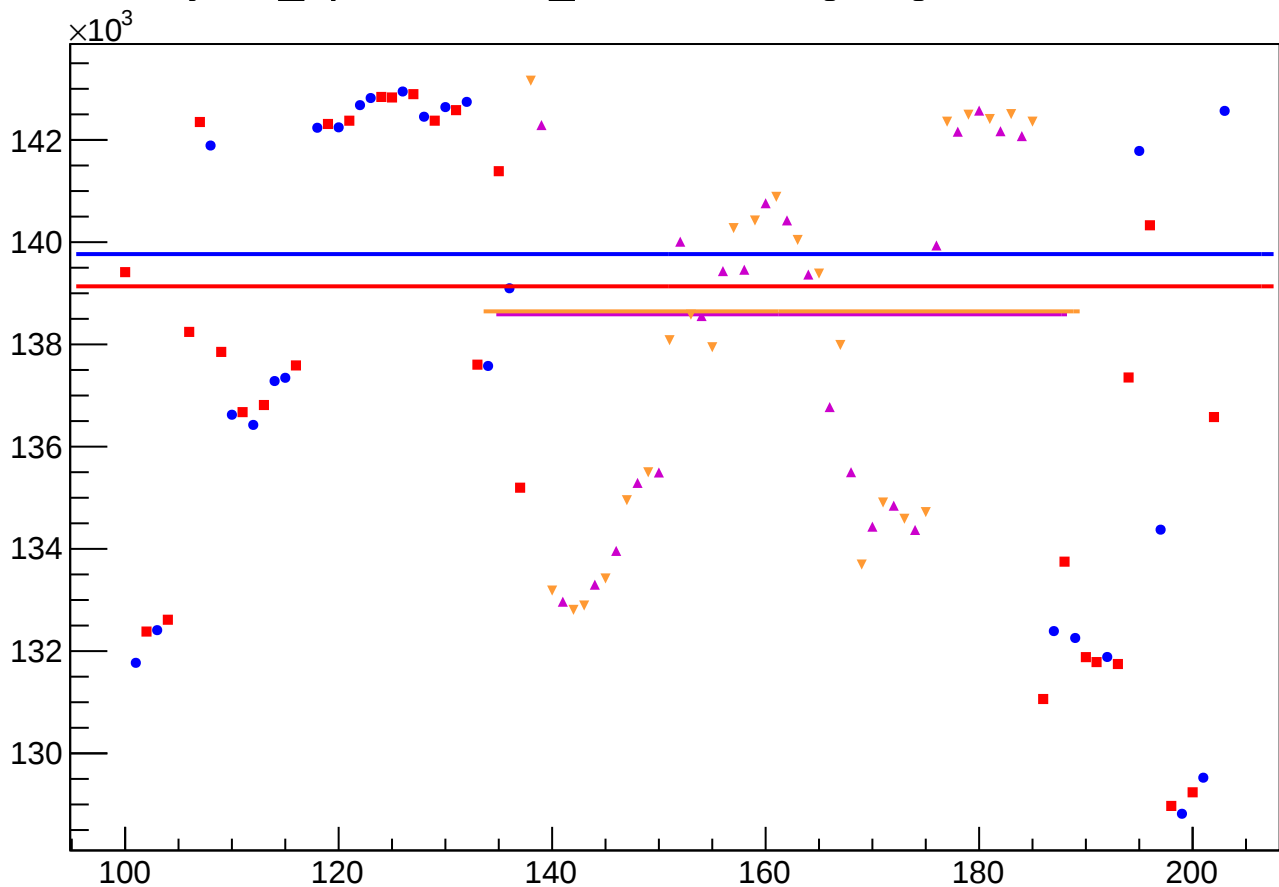
Right: 190.945 $\pm$ 0.029 χ^2 /NDF: 7597669.4/53

In: 206.796 $\pm$ 0.028 χ^2 /NDF:4621775.9/47

Out: 202.260 $\pm$ 0.027 χ^2 /NDF:5201234.0/53

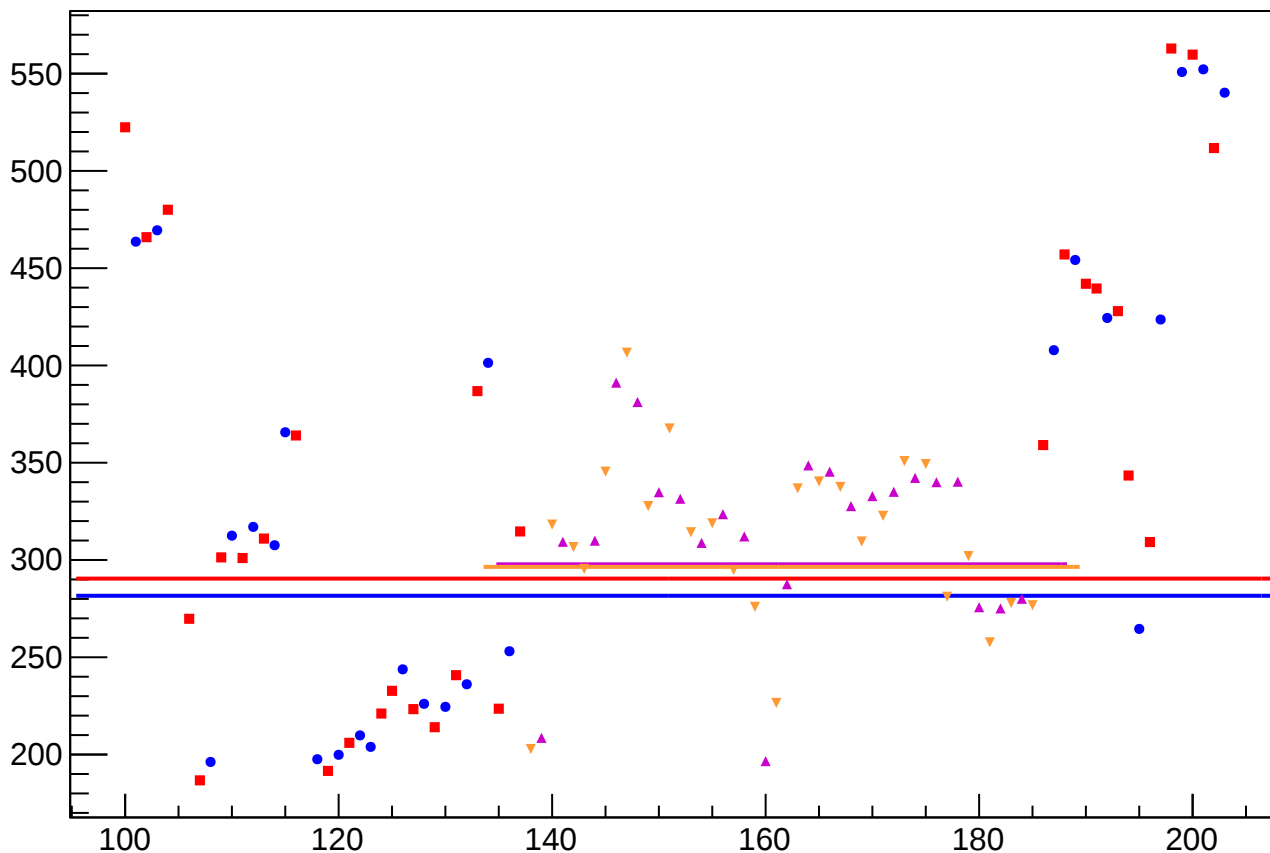
All: 204.396 $\pm$ 0.019 χ^2 /NDF: 9836581.3/103

yield_bpm0r03WS_mean vs Slug, Sign Corrected



Right In: 139766.678 $\pm$ 0.087	χ^2/NDF : 2187866874.2/24	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: 139444.266 $\pm$ 0.061	χ^2/NDF : 4546674218.2/24
Right Out: 139136.125 $\pm$ 0.085	χ^2/NDF : 2332177111.5/28	In: 139078.123 $\pm$ 0.056	χ^2/NDF : 4242178689.8/47
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: 138958.314 $\pm$ 0.039	χ^2/NDF : 915123804.2/100

yield_bpm0r03WS_rms vs Slug, Sign Corrected



Right In: 281.609 $\pm$ 0.062 χ^2 /NDF: 2777944.3/24

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

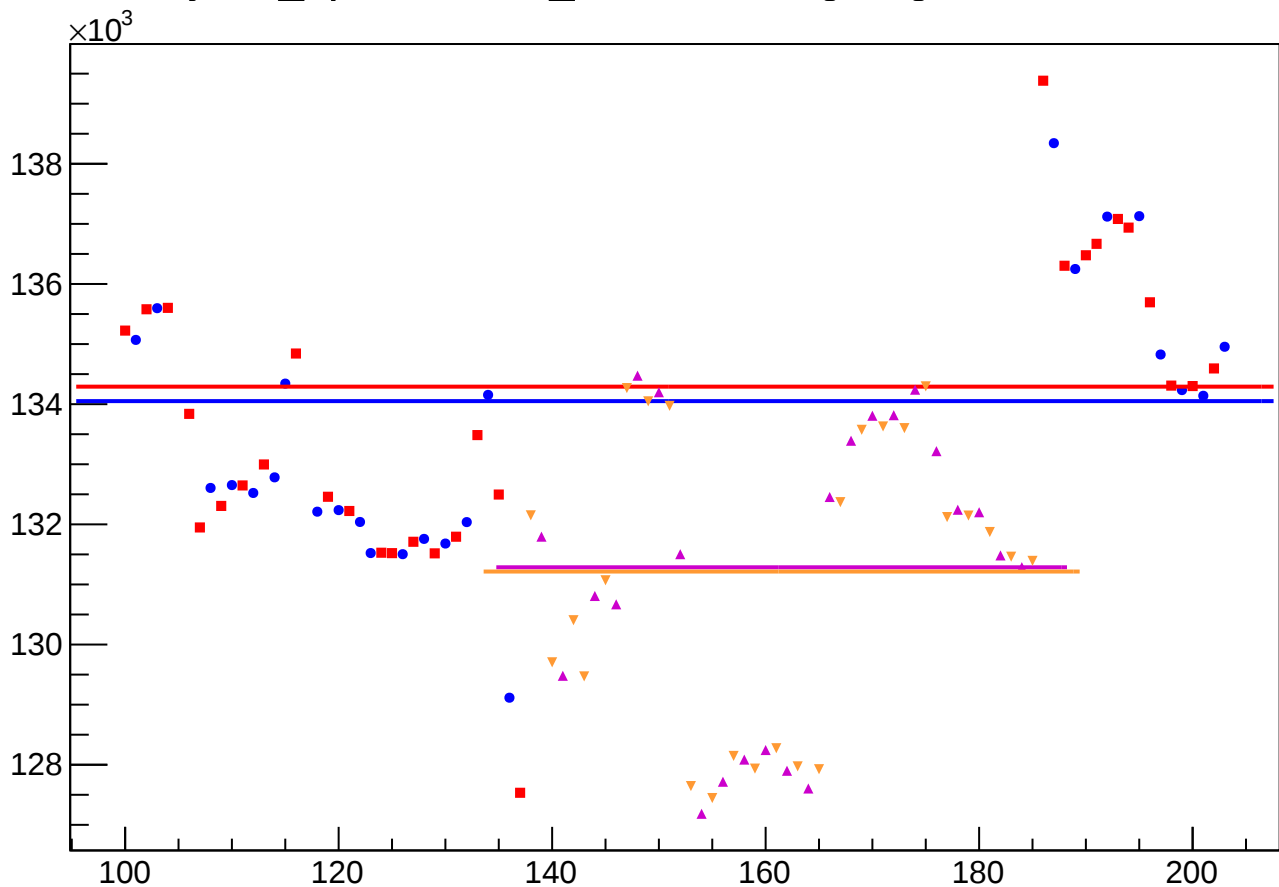
Right: 286.124 $\pm$ 0.043 χ^2 /NDF: 5689467.5/53

In: 291.058 $\pm$ 0.040 χ^2 /NDF:3879450.8/47

Out: 294.008 $\pm$ 0.039 χ^2 /NDF:3800558.6/53

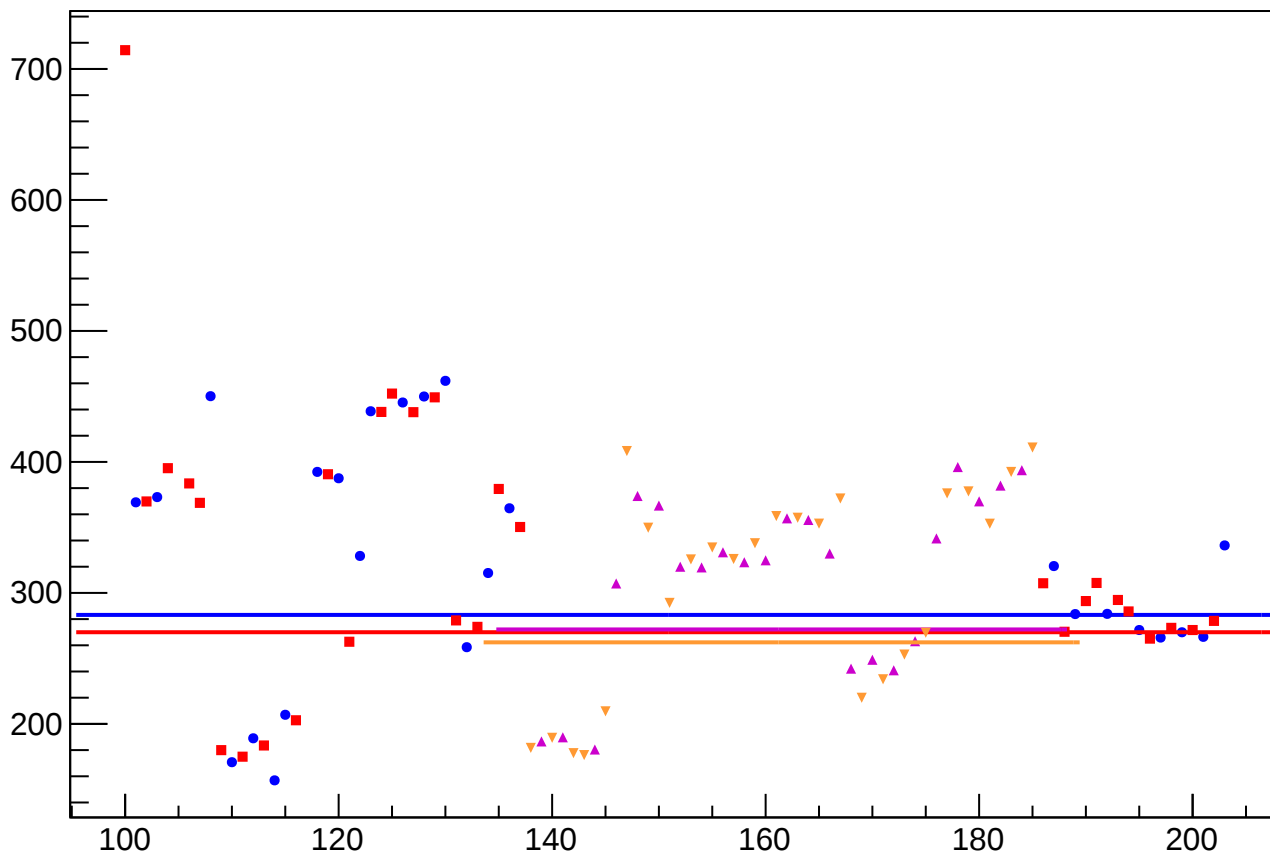
All: 292.581 $\pm$ 0.028 χ^2 /NDF: 7682841.7/103

yield_bpm0r05WS_mean vs Slug, Sign Corrected



Right In: 134050.904 $\pm$ 0.085 χ^2 /NDF: 596593874.1/24
 Left Out: 131214.985 $\pm$ 0.064 χ^2 /NDF: 1173424494.6/24
 Right Out: 134291.614 $\pm$ 0.077 χ^2 /NDF: 677129384.0/28
 Left In: 131285.623 $\pm$ 0.068 χ^2 /NDF: 1056232192.1/22
 Left: 131248.166 $\pm$ 0.047 χ^2 /NDF: 2230223308.9/4
 Right: 134182.547 $\pm$ 0.057 χ^2 /NDF: 1278127415.4/4
 In: 132373.985 $\pm$ 0.053 χ^2 /NDF: 2297327611.8/47
 Out: 132475.338 $\pm$ 0.049 χ^2 /NDF: 2787965280.9/5
 All: 132428.407 $\pm$ 0.036 χ^2 /NDF: 508724069.1/10

yield_bpm0r05WS_rms vs Slug, Sign Corrected



Right In: 283.205 $\pm$ 0.060 χ^2 /NDF: 1576411.6/24

Left Out: 262.260 $\pm$ 0.045 χ^2 /NDF:2818169.1/24

Right Out: 269.987 $\pm$ 0.055 χ^2 /NDF: 1668031.5/28

Left In: 272.115 $\pm$ 0.048 χ^2 /NDF:2221925.0/22

Left: 266.889 $\pm$ 0.033 χ^2 /NDF: 5062151.8/47

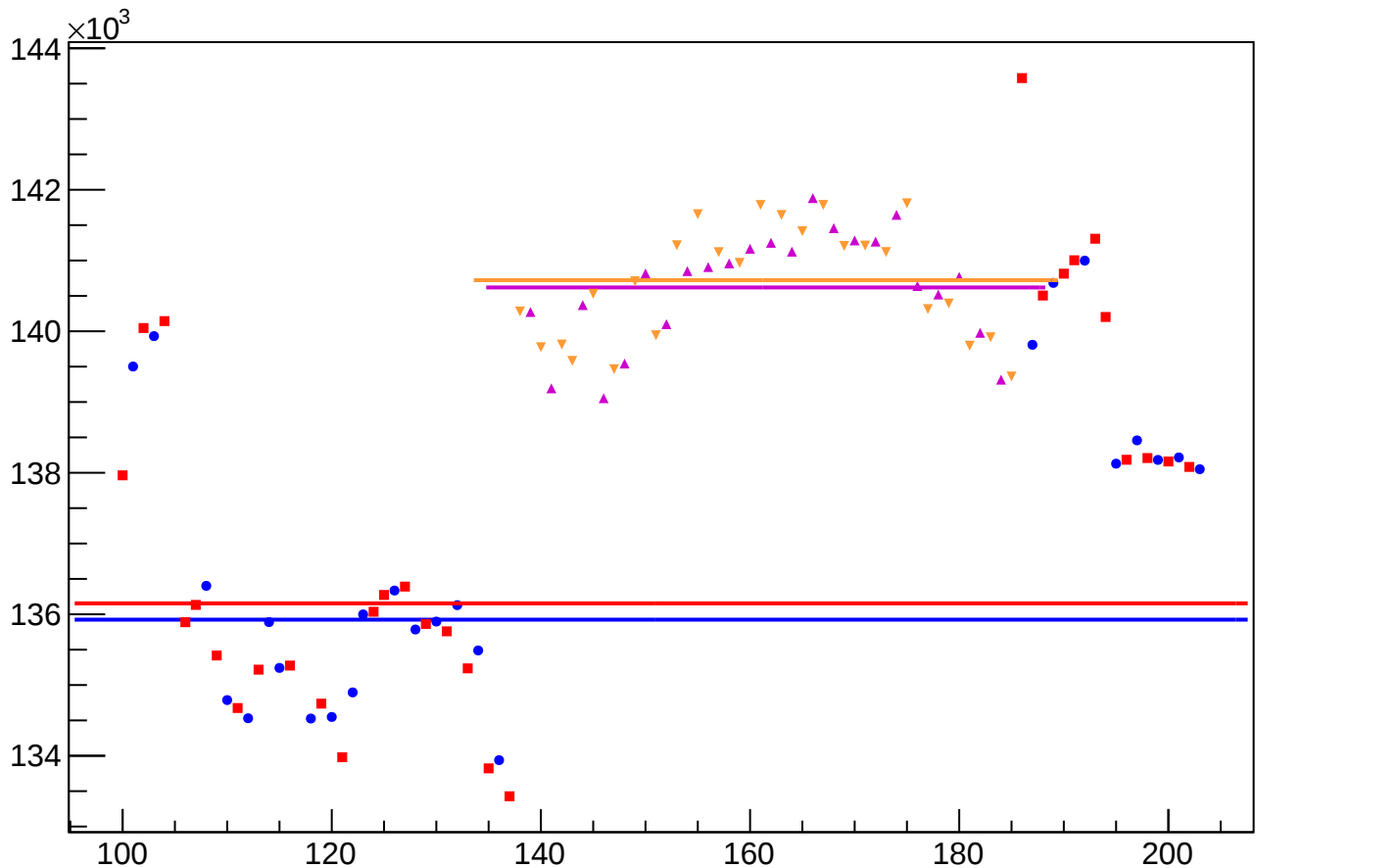
Right: 275.976 $\pm$ 0.040 χ^2 /NDF: 3271006.4/53

In: 276.480 $\pm$ 0.038 χ^2 /NDF:3819071.3/47

Out: 265.425 $\pm$ 0.035 χ^2 /NDF:4498026.9/53

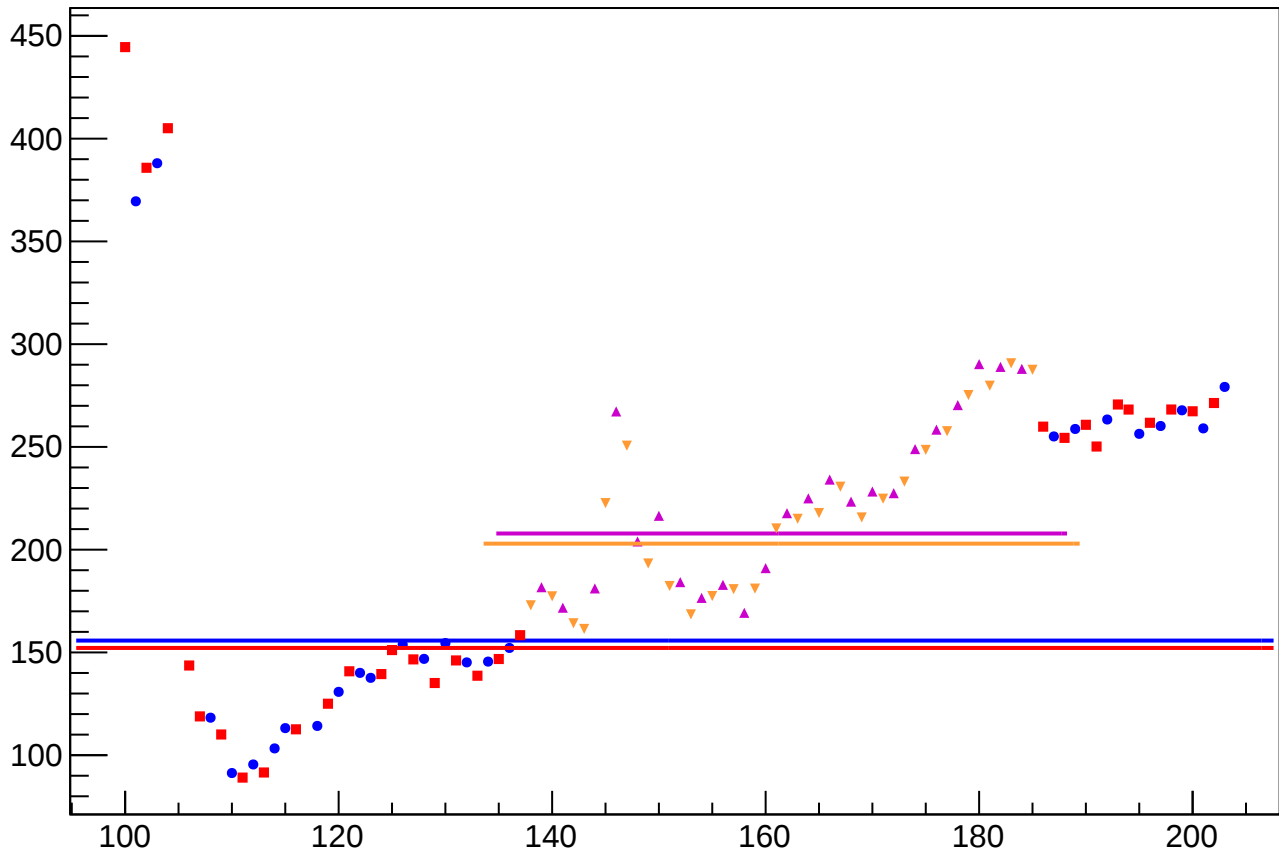
All: 270.544 $\pm$ 0.026 χ^2 /NDF: 8363443.2/103

yield_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 135923.933 $\pm$ 0.049 χ^2/NDF : 1369879754.3/24
 Left Out: 140721.823 $\pm$ 0.048 χ^2/NDF : 247257762.8/24
 Right Out: 136154.068 $\pm$ 0.046 χ^2/NDF : 2023888092.0/28
 Left In: 140619.038 $\pm$ 0.051 χ^2/NDF : 200370178.0/22
 All: 138250.921 $\pm$ 0.024 χ^2/NDF : 129329768.0/24

yield_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 155.768 $\pm$ 0.035 χ^2 /NDF: 3648019.1/24

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

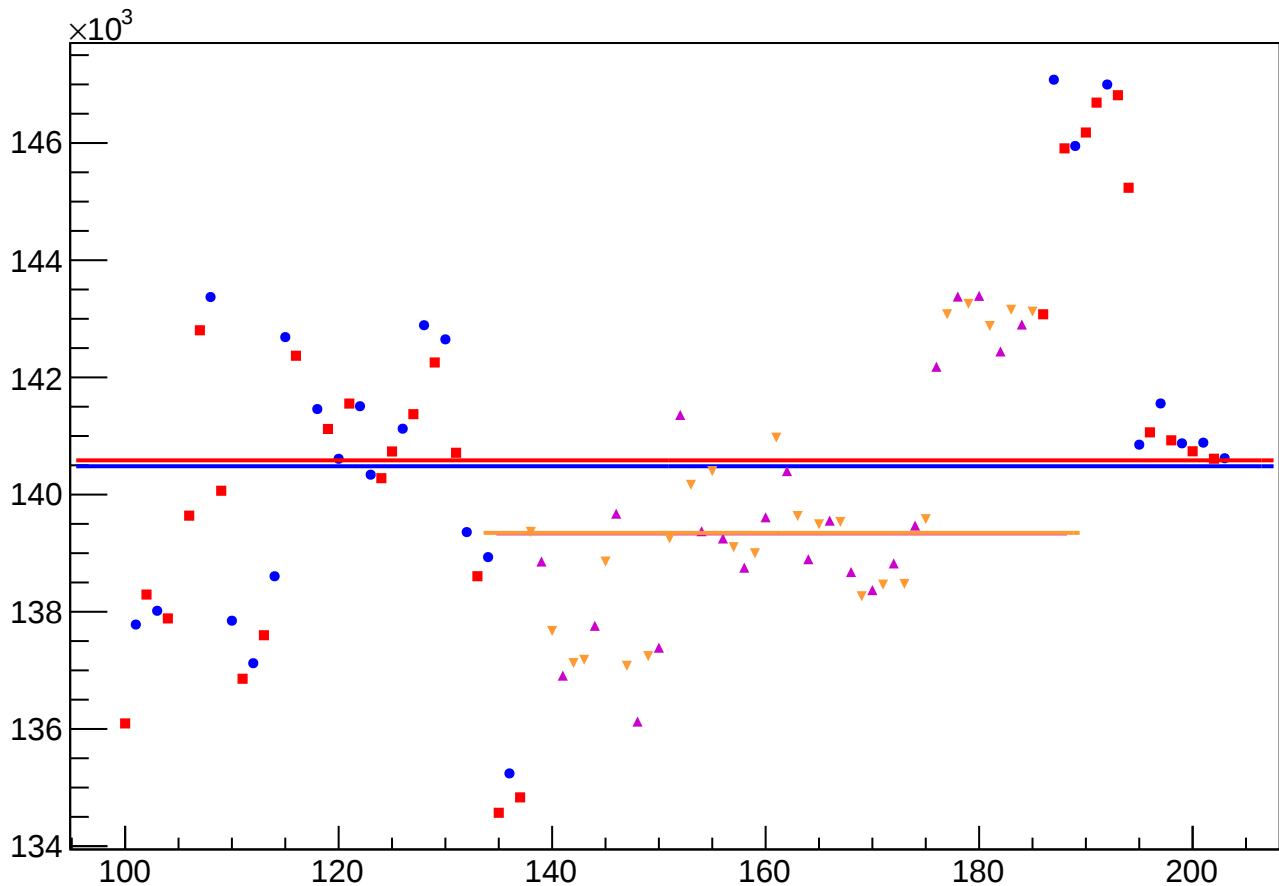
Right: 153.860 $\pm$ 0.024 χ^2 /NDF: 7907791.5/53

In: 180.721 $\pm$ 0.025 χ^2 /NDF:5681364.5/47

Out: 176.253 $\pm$ 0.024 χ^2 /NDF:6462194.7/53

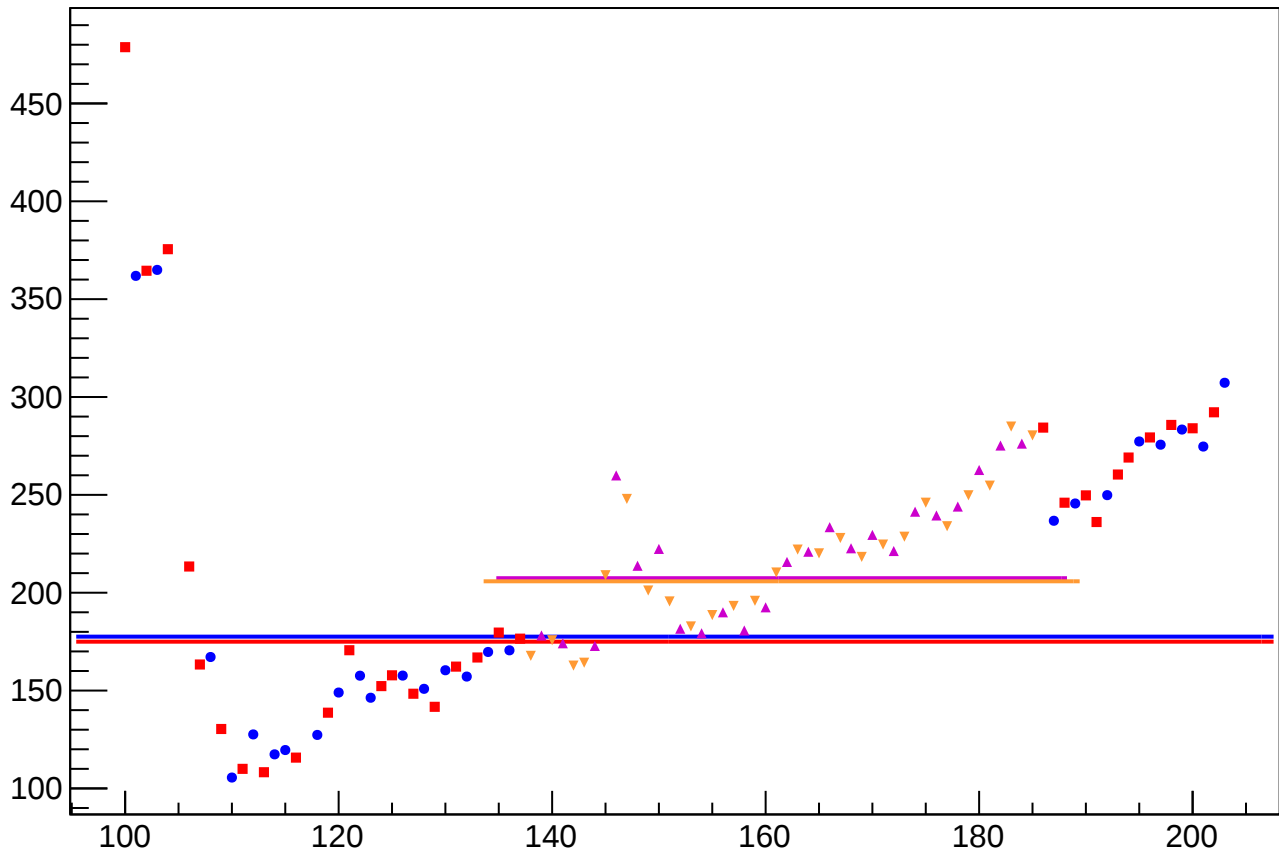
All: 178.356 $\pm$ 0.017 χ^2 /NDF: 12160467.1/10

yield_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 140483.559 $\pm$ 0.055	χ^2/NDF : 2770970577.3/24	Left: 139342.403 $\pm$ 0.035	χ^2/NDF : 2564192227.9/24
Left Out: 139346.604 $\pm$ 0.049	χ^2/NDF : 1271172976.7/24	Right: 140536.810 $\pm$ 0.038	χ^2/NDF : 5984056156.3/24
Right Out: 140584.408 $\pm$ 0.052	χ^2/NDF : 3211290795.1/28	In: 139868.848 $\pm$ 0.037	χ^2/NDF : 4299343072.4/47
Left In: 139337.874 $\pm$ 0.051	χ^2/NDF : 1293003954.9/22	Out: 139931.717 $\pm$ 0.036	χ^2/NDF : 4784540669.5/50
		All: 139901.735 $\pm$ 0.026	χ^2/NDF : 908537470.0/100

yield_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 177.556+/-0.039 χ^2/NDF : 2777813.9/24

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

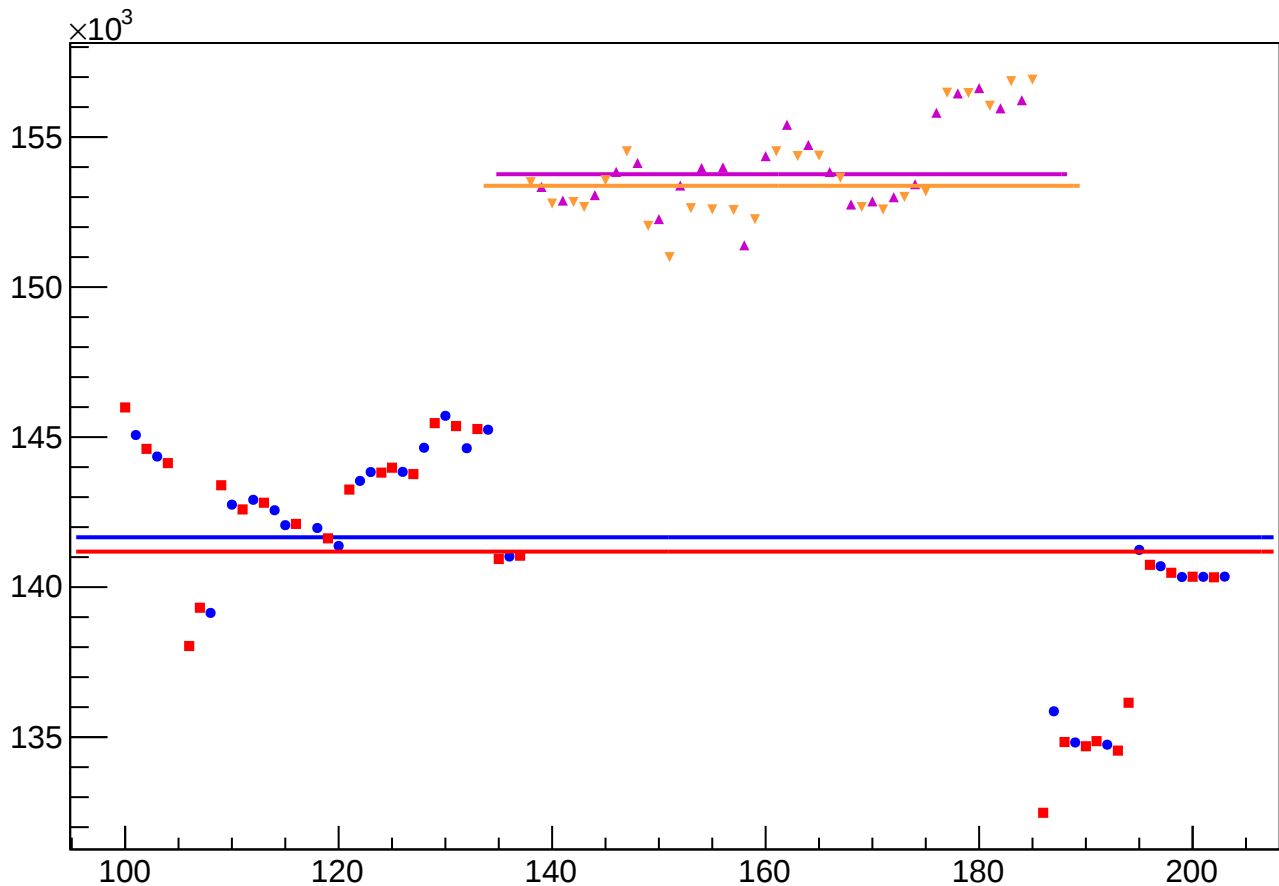
Right: 176.197+/-0.027 χ^2/NDF : 6021131.4/53

In: 193.577+/-0.026 χ^2/NDF : 3799538.0/47

Out: 191.250+/-0.025 χ^2/NDF : 4354945.0/53

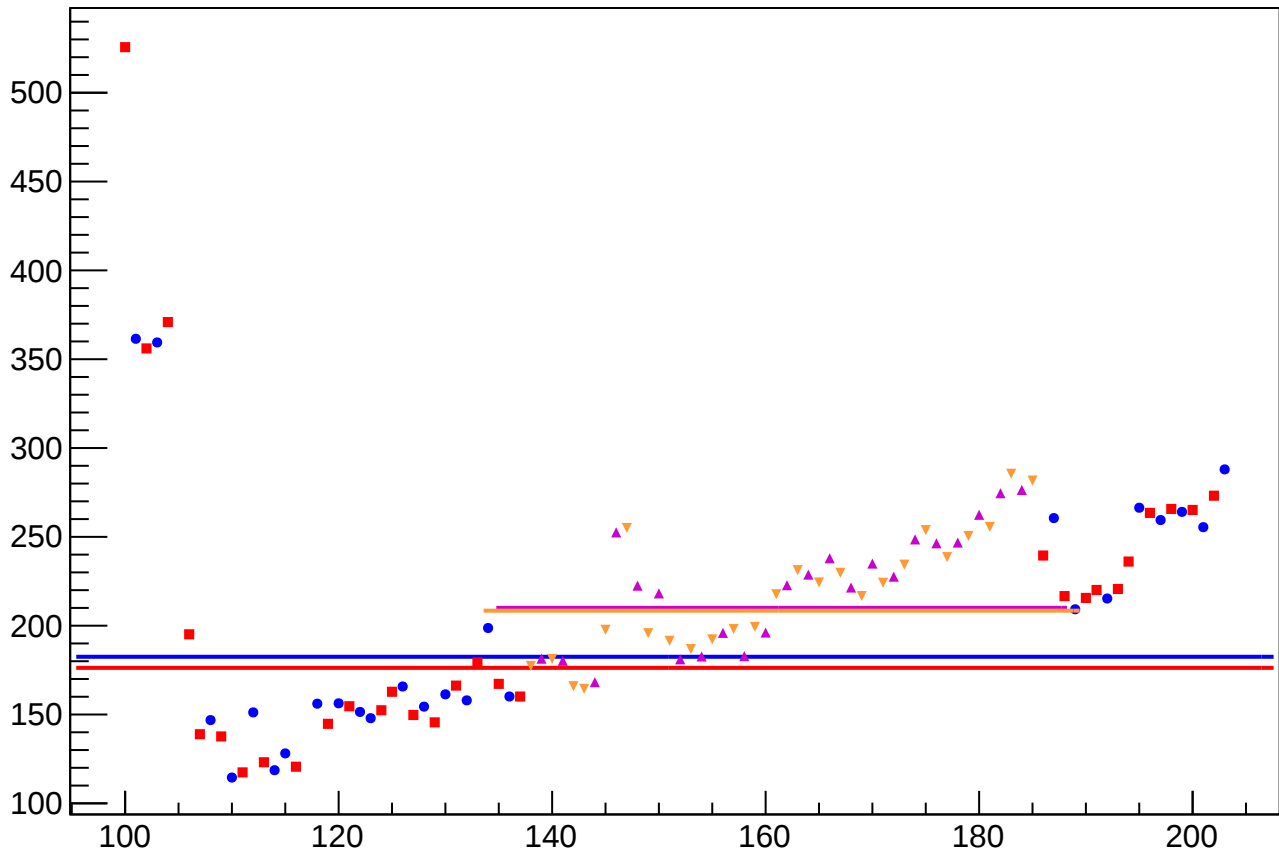
All: 192.360+/-0.018 χ^2/NDF : 8158570.9/103

yield_bpm0i05WS_mean vs Slug, Sign Corrected



Right In: 141662.104 $\pm$ 0.055	χ^2 /NDF: 2659528982.5/24	Left: 153562.262 $\pm$ 0.036	χ^2 /NDF: 1468093411.3/4
Left Out: 153376.698 $\pm$ 0.050	χ^2 /NDF: 803848095.1/24	Right: 141404.127 $\pm$ 0.038	χ^2 /NDF: 7110958046.6/4
Right Out: 141183.528 $\pm$ 0.051	χ^2 /NDF: 4411062264.6/28	In: 148148.894 $\pm$ 0.038	χ^2 /NDF: 28958395873.7/4
Left In: 153762.419 $\pm$ 0.051	χ^2 /NDF: 635075685.0/22	Out: 147474.412 $\pm$ 0.036	χ^2 /NDF: 34544012065.0/4
		All: 147792.450 $\pm$ 0.026	χ^2 /NDF: 636718483.0/4

yield_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 182.500 $\pm$ 0.039 χ^2 /NDF: 2042438.3/24

Left Out: 208.466 $\pm$ 0.035 χ^2 /NDF: 720894.7/24

Right Out: 176.269 $\pm$ 0.036 χ^2 /NDF: 2336798.9/28

Left In: 210.038 $\pm$ 0.036 χ^2 /NDF: 702369.5/22

Left: 209.222 $\pm$ 0.025 χ^2 /NDF: 1424233.1/47

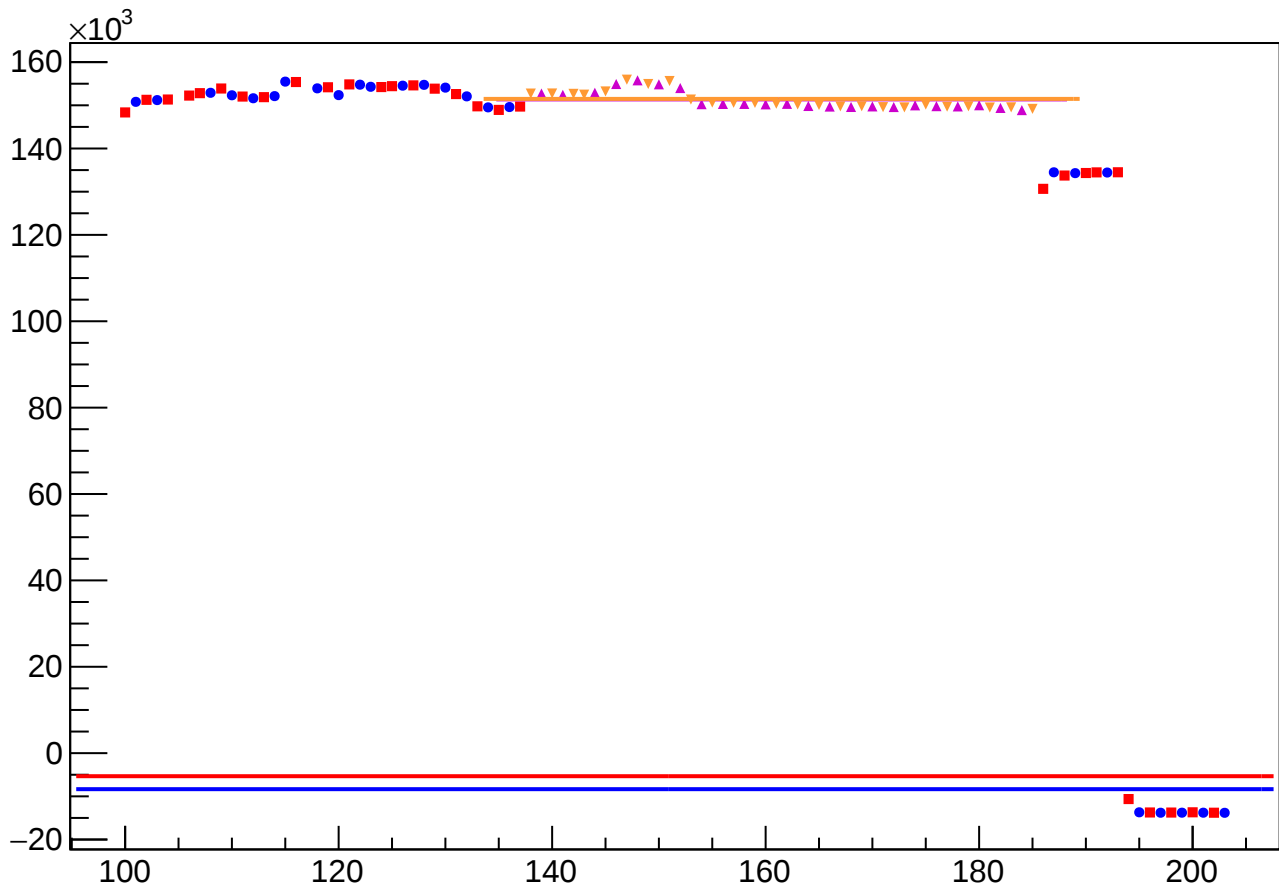
Right: 179.141 $\pm$ 0.027 χ^2 /NDF: 4392922.6/53

In: 197.263 $\pm$ 0.027 χ^2 /NDF: 3010644.2/47

Out: 192.881 $\pm$ 0.025 χ^2 /NDF: 3466690.0/53

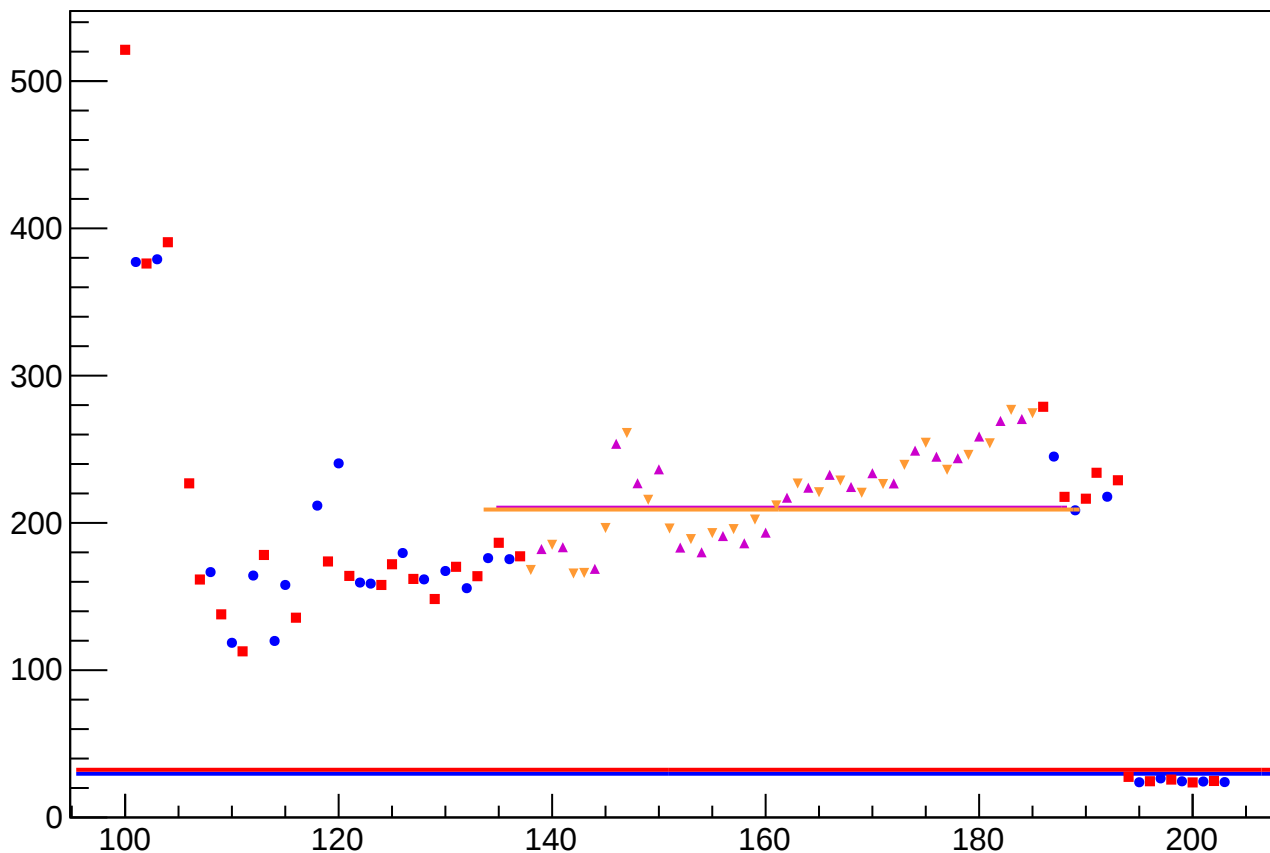
All: 194.947 $\pm$ 0.018 χ^2 /NDF: 6491638.3/103

yield_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -8338.713 ± 0.012 $\chi^2/\text{NDF}: 5815132905671.0/24$
 Left Out: 151483.385 ± 0.050 $\chi^2/\text{NDF}: 1481910066.9/24$
 Right Out: -5336.496 ± 0.013 $\chi^2/\text{NDF}: 6998362109491.7/28$
 Left In: 151363.165 ± 0.051 $\chi^2/\text{NDF}: 1421662089.0/22$
 Left: 151425.512 ± 0.036 $\chi^2/\text{NDF}: 2906409079.9/24$
 Right: -6981.862 ± 0.009 $\chi^2/\text{NDF}: 1284099592953.0/24$
 In: 139.478 ± 0.012 $\chi^2/\text{NDF}: 14957390865062.2/24$
 Out: 5365.318 ± 0.013 $\chi^2/\text{NDF}: 16343160970867.0/24$
 All: 2522.195 ± 0.009 $\chi^2/\text{NDF}: 31389327012.0/24$

yield_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 29.694 $\pm$ 0.009 χ^2 /NDF: 11420172.9/24

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

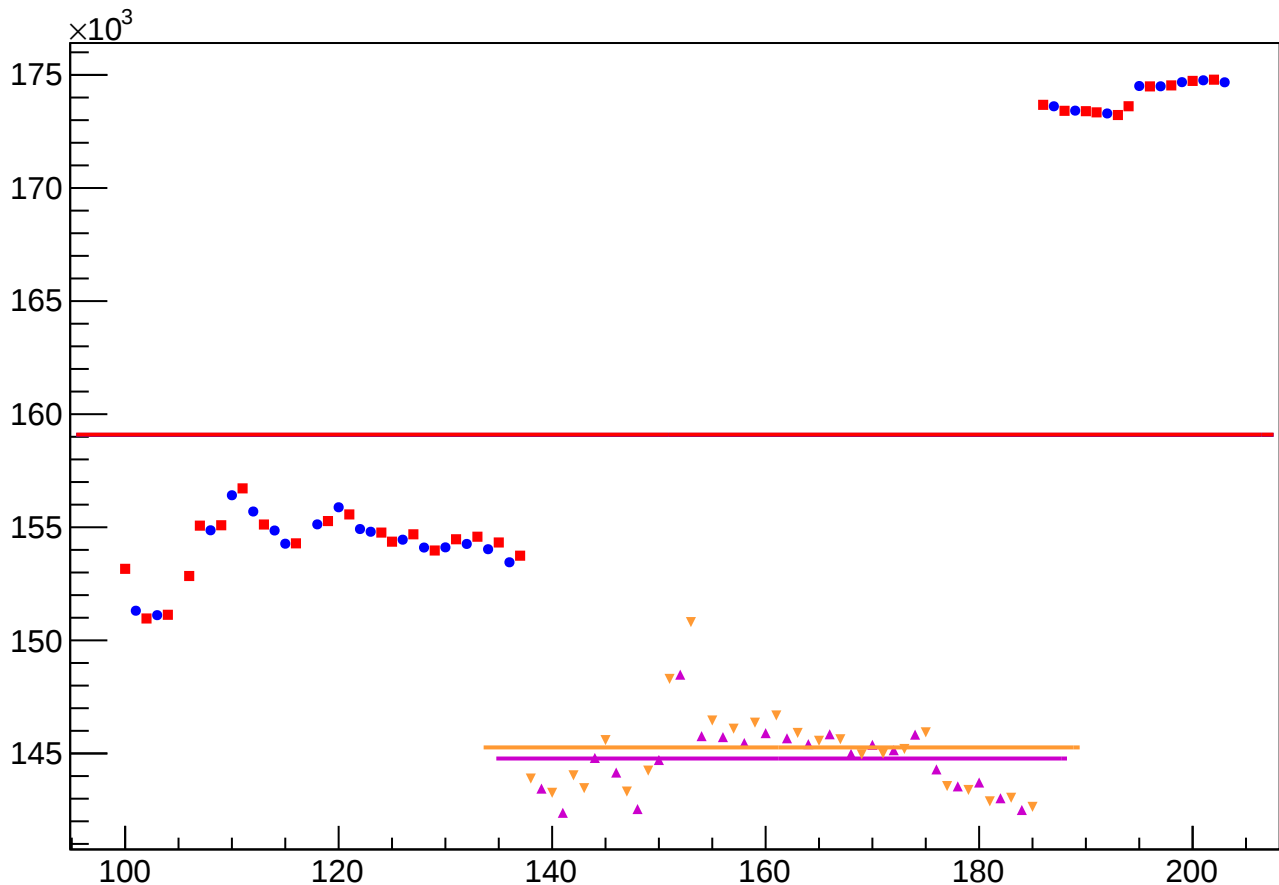
Right: 30.908 $\pm$ 0.006 χ^2 /NDF: 24633234.1/53

In: 39.284 $\pm$ 0.008 χ^2 /NDF: 35490465.0/47

Out: 44.438 $\pm$ 0.009 χ^2 /NDF: 37600873.6/53

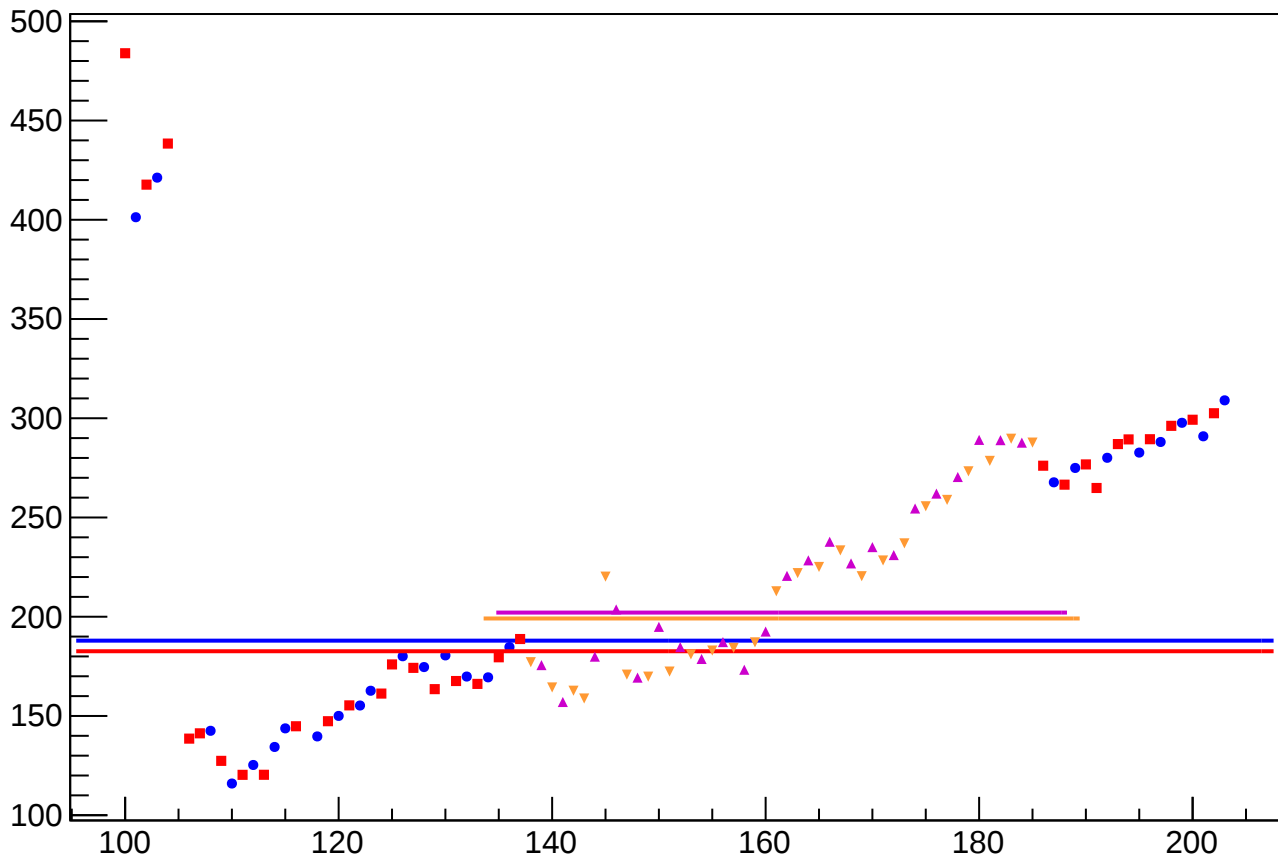
All: 41.634 $\pm$ 0.006 χ^2 /NDF: 73264074.3/101

yield_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: 159084.400+/-0.058	χ^2/NDF : 19805694384.8/24	Left: 145032.324+/-0.034	χ^2/NDF : 2687033506.0/24
Left Out: 145266.717+/-0.047	χ^2/NDF : 1717707352.7/24	Right: 159090.660+/-0.039	χ^2/NDF : 42166922725.5/24
Right Out: 159096.058+/-0.054	χ^2/NDF : 22361206488.5/28	In: 150839.650+/-0.038	χ^2/NDF : 56047420137.3/28
Left In: 144776.016+/-0.050	χ^2/NDF : 918120275.4/22	Out: 151326.204+/-0.036	χ^2/NDF : 61386424082.0/22
		All: 151096.858+/-0.026	χ^2/NDF : 117522268.0/22

yield_bpm1i02WS_rms vs Slug, Sign Corrected



Right In: 187.948 $\pm$ 0.041 χ^2 /NDF: 2860788.2/24

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

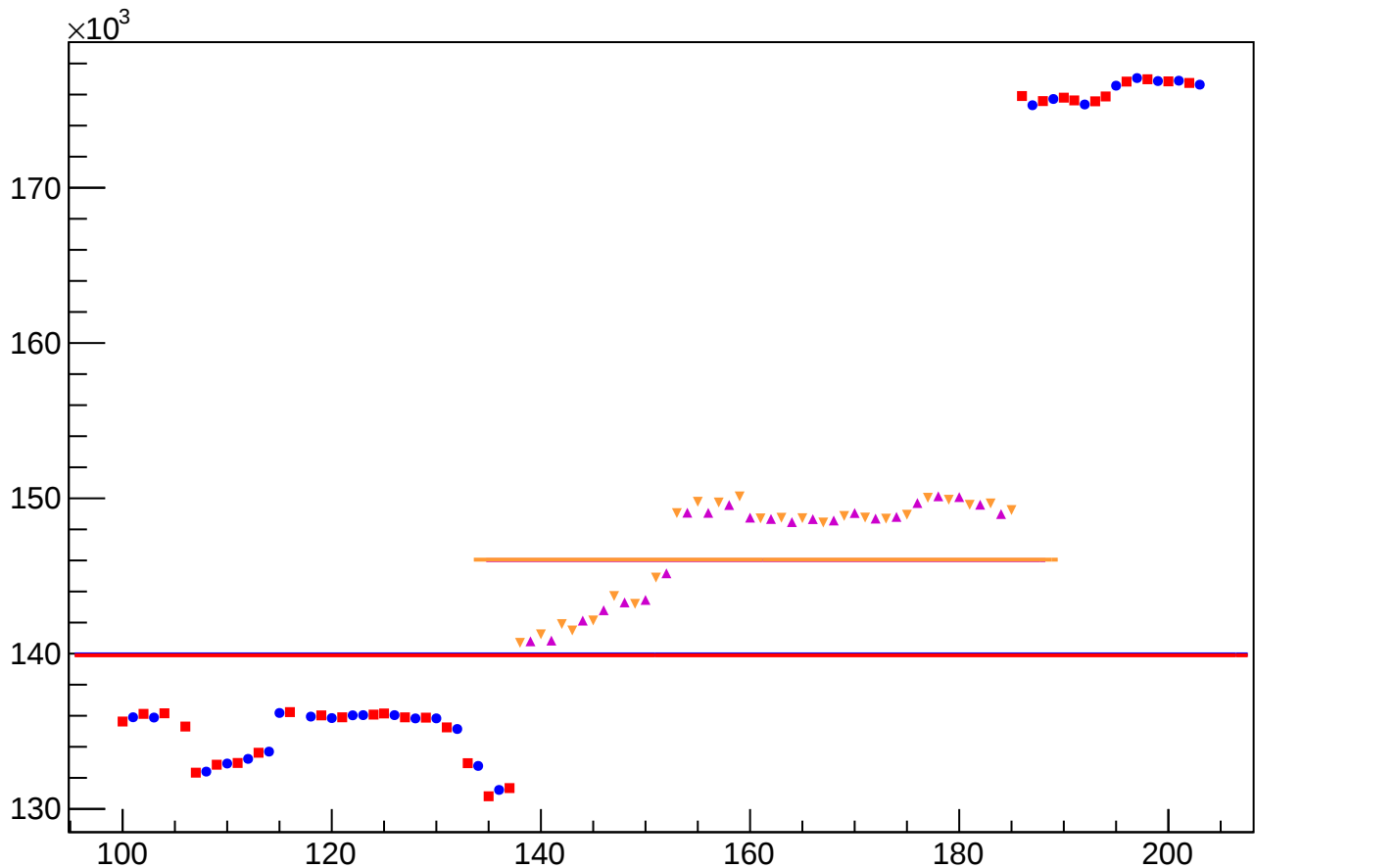
Right: 185.083 $\pm$ 0.028 χ^2 /NDF: 6184634.5/53

In: 196.097 $\pm$ 0.027 χ^2 /NDF: 3987636.9/47

Out: 191.886 $\pm$ 0.025 χ^2 /NDF: 4573214.3/53

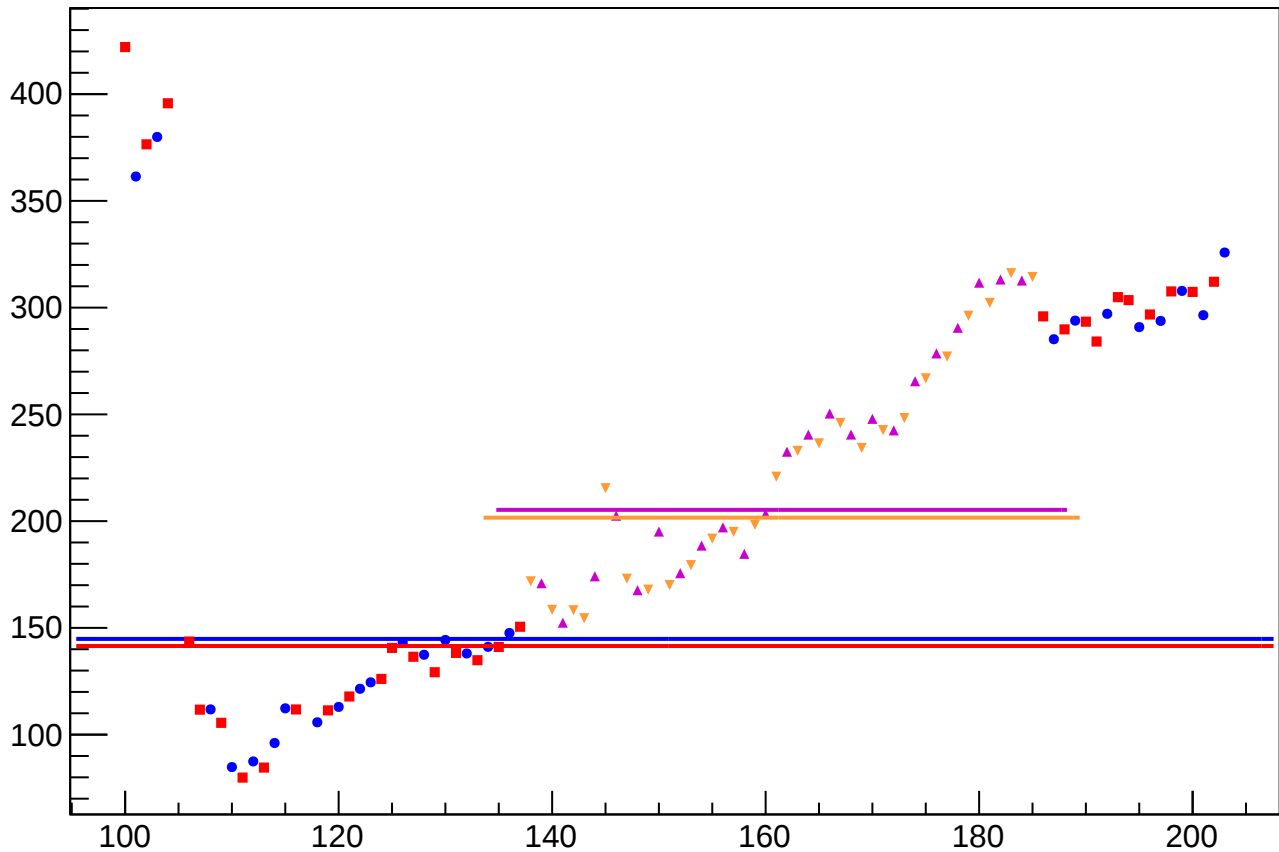
All: 193.871 $\pm$ 0.018 χ^2 /NDF: 8574099.4/103

yield_bpm1i04WS_mean vs Slug, Sign Corrected



Right In: 139954.065 $\pm$ 0.047	χ^2/NDF : 94986271233.1/24	Left: 146036.626 $\pm$ 0.035	χ^2/NDF : 9994930852.8/24
Left Out: 146051.733 $\pm$ 0.048	χ^2/NDF : 5403300123.1/24	Right: 139921.531 $\pm$ 0.032	χ^2/NDF : 203443211734.1/24
Right Out: 139892.812 $\pm$ 0.044	χ^2/NDF : 108456034204.8/28	In: 142753.476 $\pm$ 0.034	χ^2/NDF : 107300626277.2/28
Left In: 146020.015 $\pm$ 0.051	χ^2/NDF : 4591425371.4/22	Out: 142689.648 $\pm$ 0.033	χ^2/NDF : 122733823691.1/22
		All: 142719.791 $\pm$ 0.024	χ^2/NDF : 230036265.1/22

yield_bpm1i04WS_rms vs Slug, Sign Corrected



Right In: 144.835 $\pm$ 0.033 χ^2 /NDF: 4880838.6/24

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

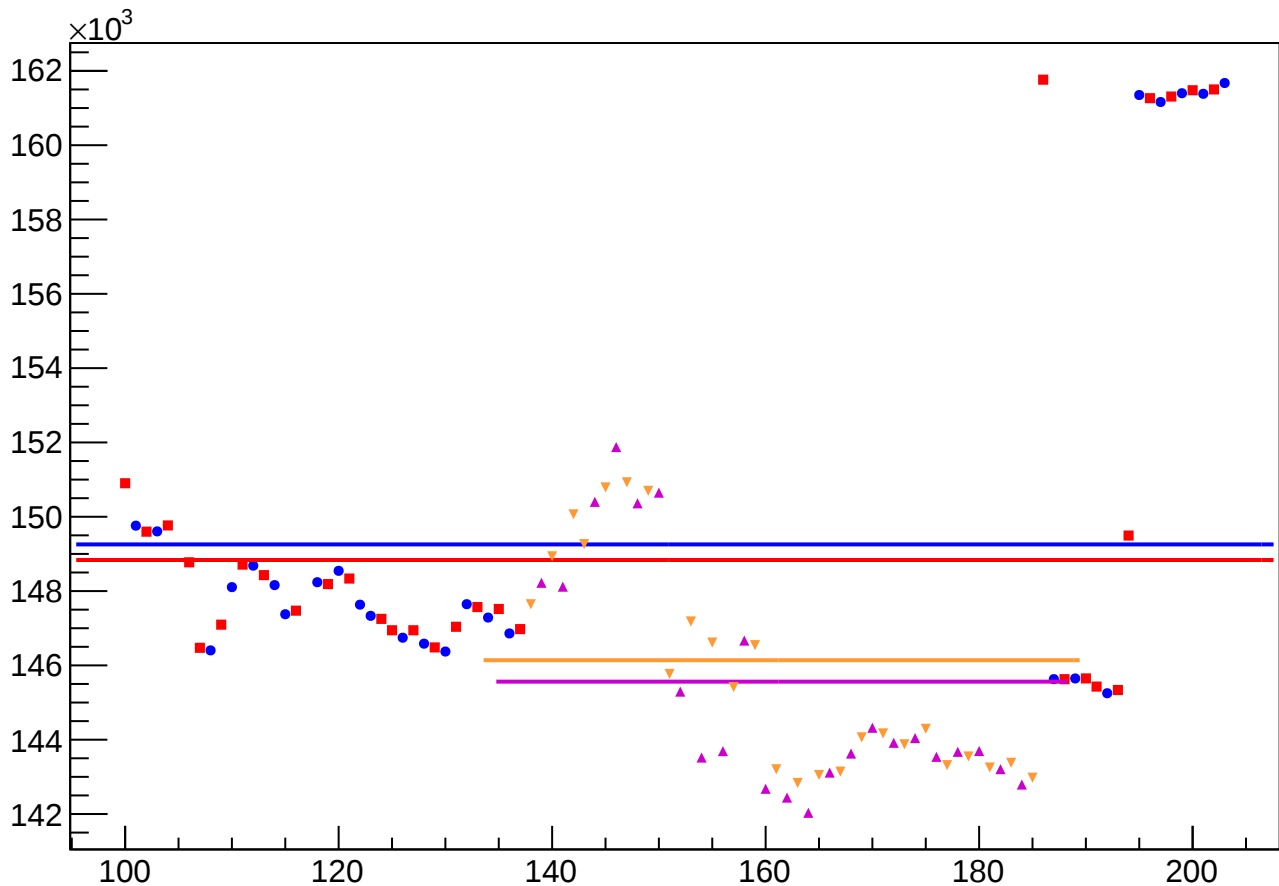
Right: 143.073 $\pm$ 0.023 χ^2 /NDF: 10536243.1/53

In: 172.733 $\pm$ 0.024 χ^2 /NDF:7840112.9/47

Out: 168.816 $\pm$ 0.023 χ^2 /NDF:8930524.5/53

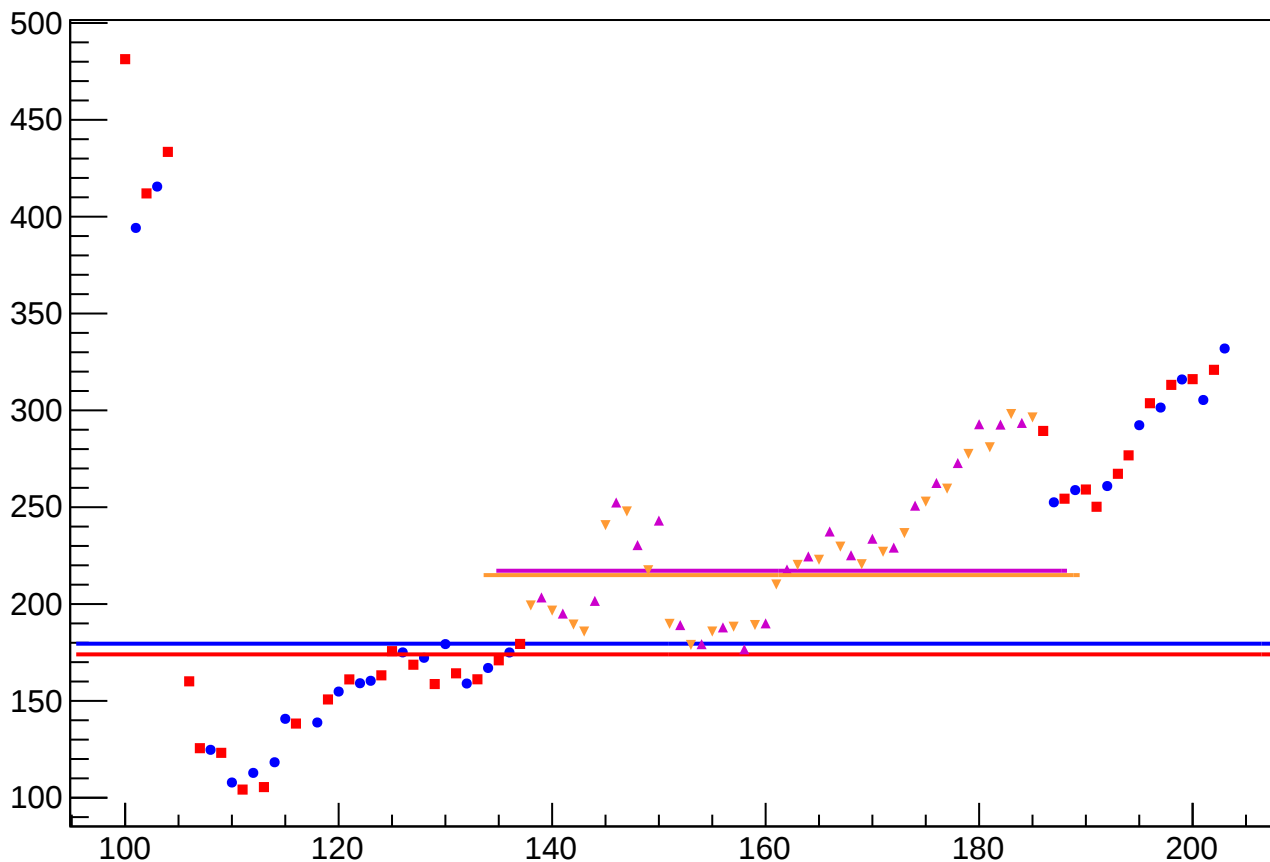
All: 170.666 $\pm$ 0.017 χ^2 /NDF: 16784314.3/10

yield_bpm1i06WS_mean vs Slug, Sign Corrected



Right In: 149255.879 $\pm$ 0.056	χ^2 /NDF: 735588377.6/24	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: 149030.384 $\pm$ 0.038	χ^2 /NDF: 13770548746.6/4
Right Out: 148836.534 $\pm$ 0.052	χ^2 /NDF: 6384422918.5/28	In: 147312.482 $\pm$ 0.038	χ^2 /NDF: 12705812883.3/4
Left In: 145562.386 $\pm$ 0.053	χ^2 /NDF: 3054641996.0/22	Out: 147463.146 $\pm$ 0.036	χ^2 /NDF: 10461858367.6/4
		All: 147392.178 $\pm$ 0.026	χ^2 /NDF: 231757745.6/4

yield_bpm1i06WS_rms vs Slug, Sign Corrected



Right In: 179.536 $\pm$ 0.040 χ^2 /NDF: 3356248.1/24

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

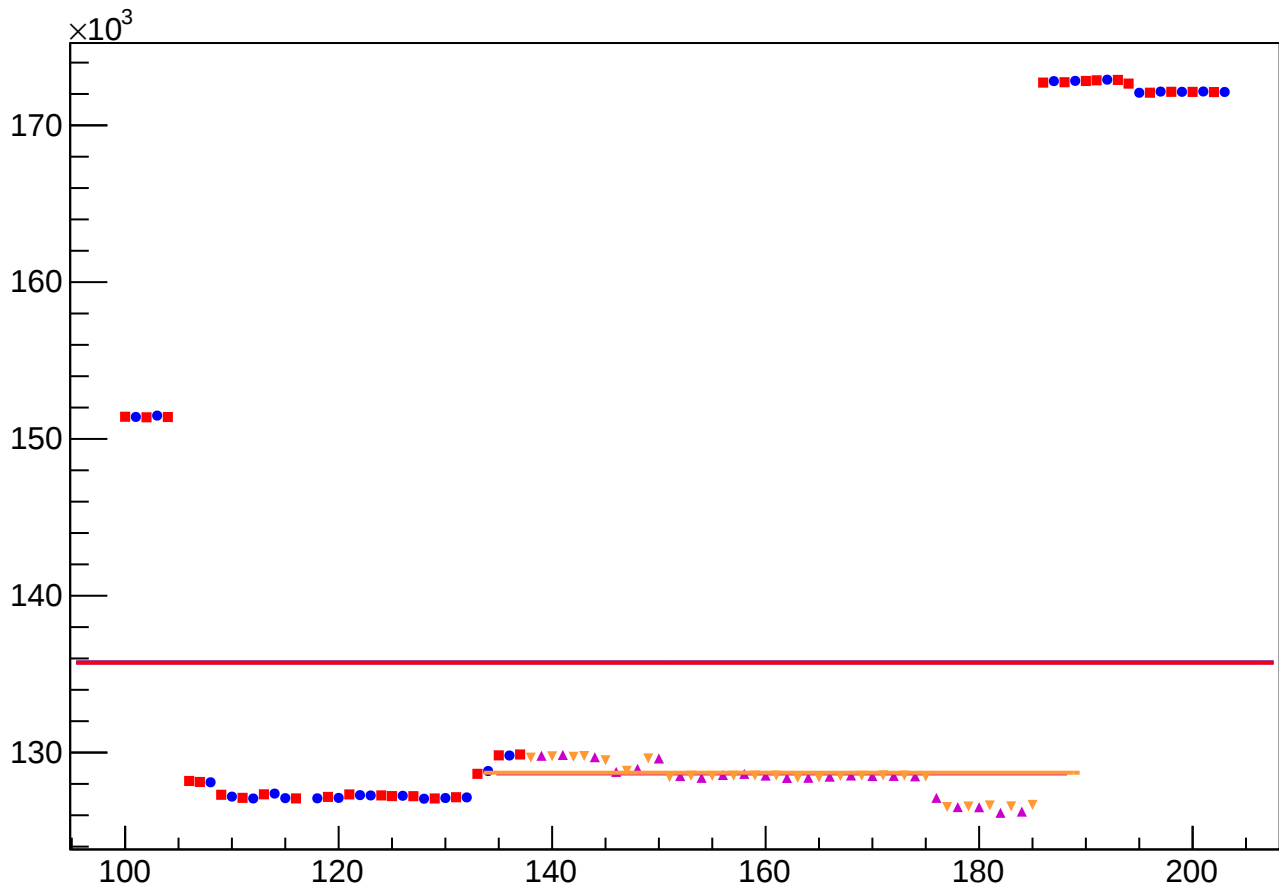
Right: 176.567 $\pm$ 0.027 χ^2 /NDF: 7210230.1/53

In: 199.355 $\pm$ 0.027 χ^2 /NDF: 4598498.9/47

Out: 194.856 $\pm$ 0.026 χ^2 /NDF: 5206607.1/53

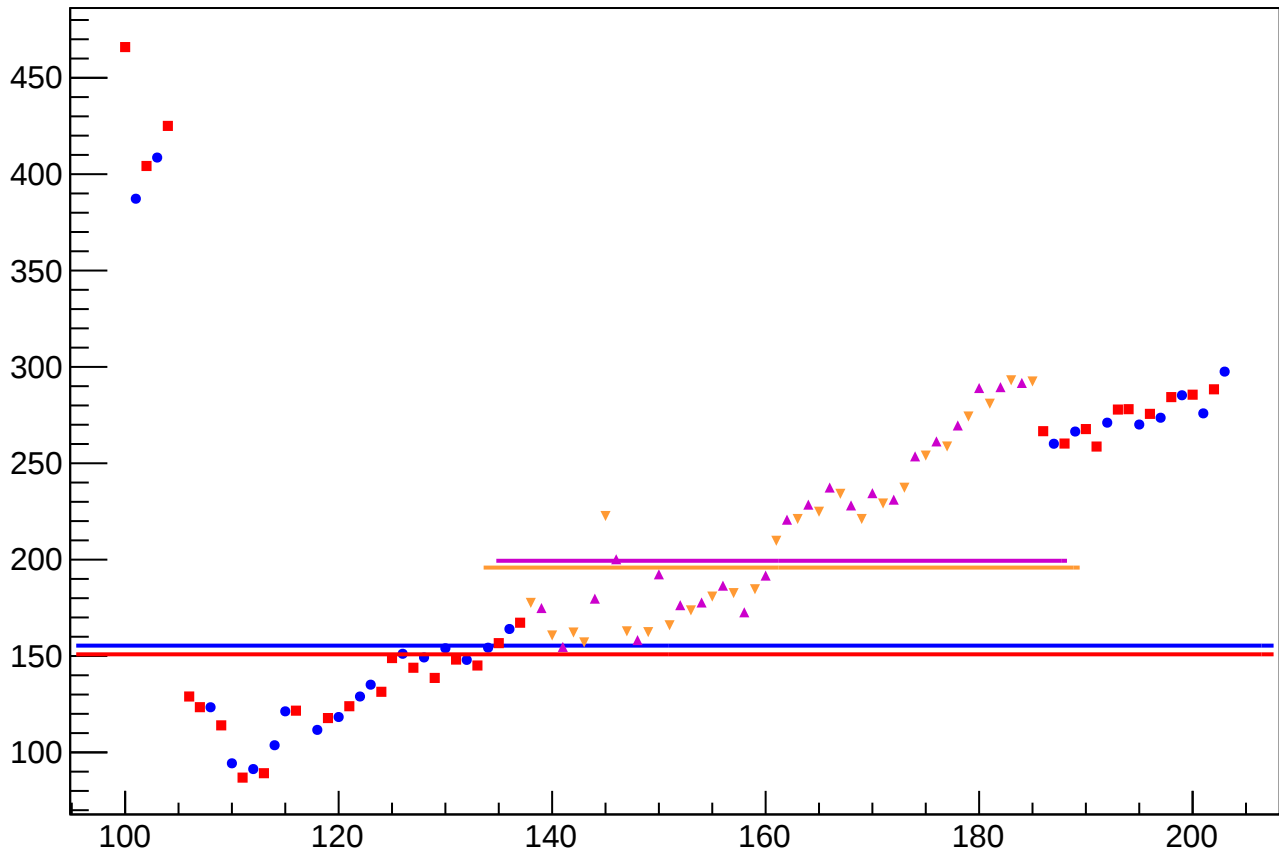
All: 196.975 $\pm$ 0.019 χ^2 /NDF: 9819556.9/103

yield_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: 135746.477 $\pm$ 0.049 χ^2 /NDF: 121042872692.4/24
 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: 135739.517 $\pm$ 0.034 χ^2 /NDF: 261738499379
 In: 132187.611 $\pm$ 0.035 χ^2 /NDF: 131759774779.5
 Out: 132294.656 $\pm$ 0.033 χ^2 /NDF: 152567114903
 All: 132244.385 $\pm$ 0.024 χ^2 /NDF: 284331926

yield_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 155.388+/-0.035 χ^2/NDF : 4057414.5/24

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

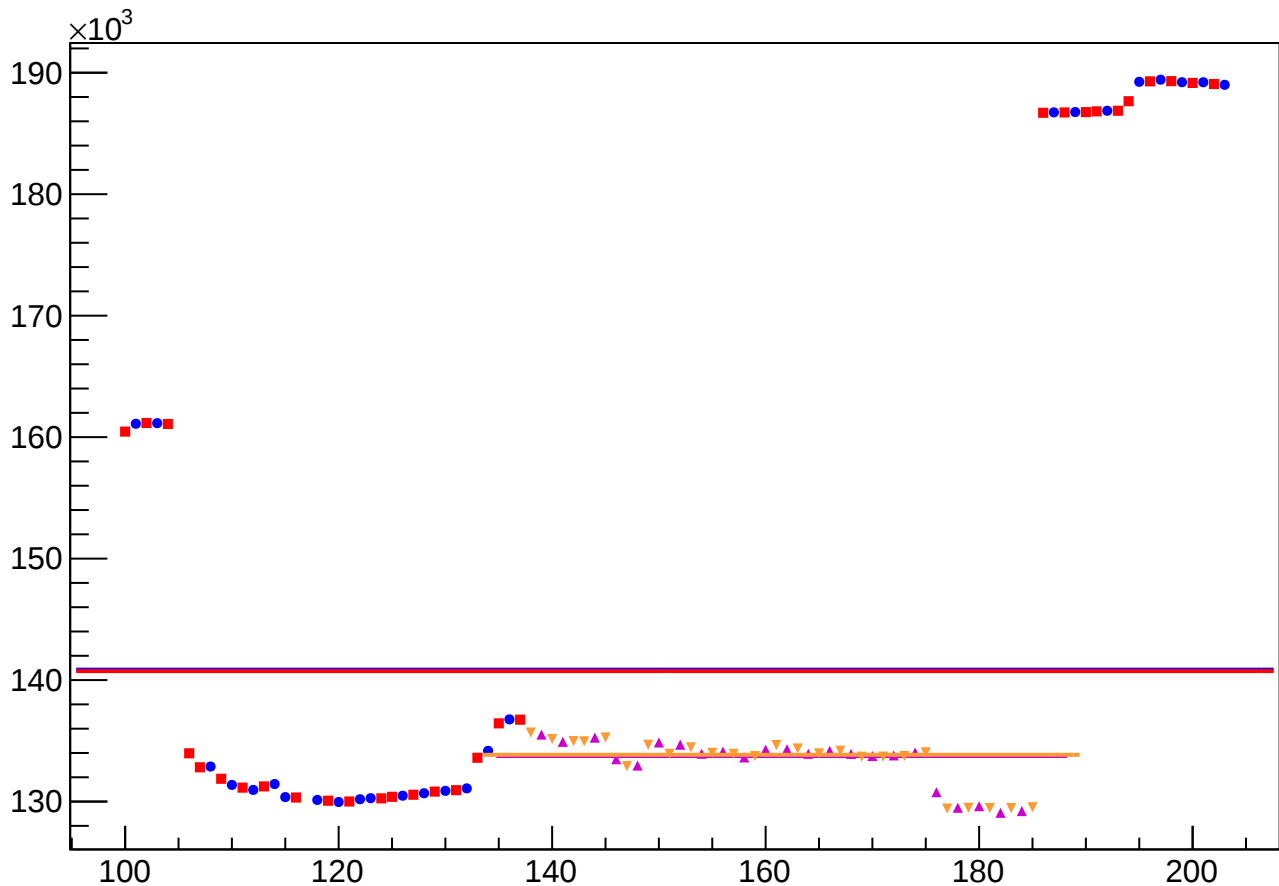
Right: 152.965+/-0.024 χ^2/NDF : 8741784.9/53

In: 177.520+/-0.025 χ^2/NDF :6026268.6/47

Out: 172.925+/-0.023 χ^2/NDF :6936403.7/53

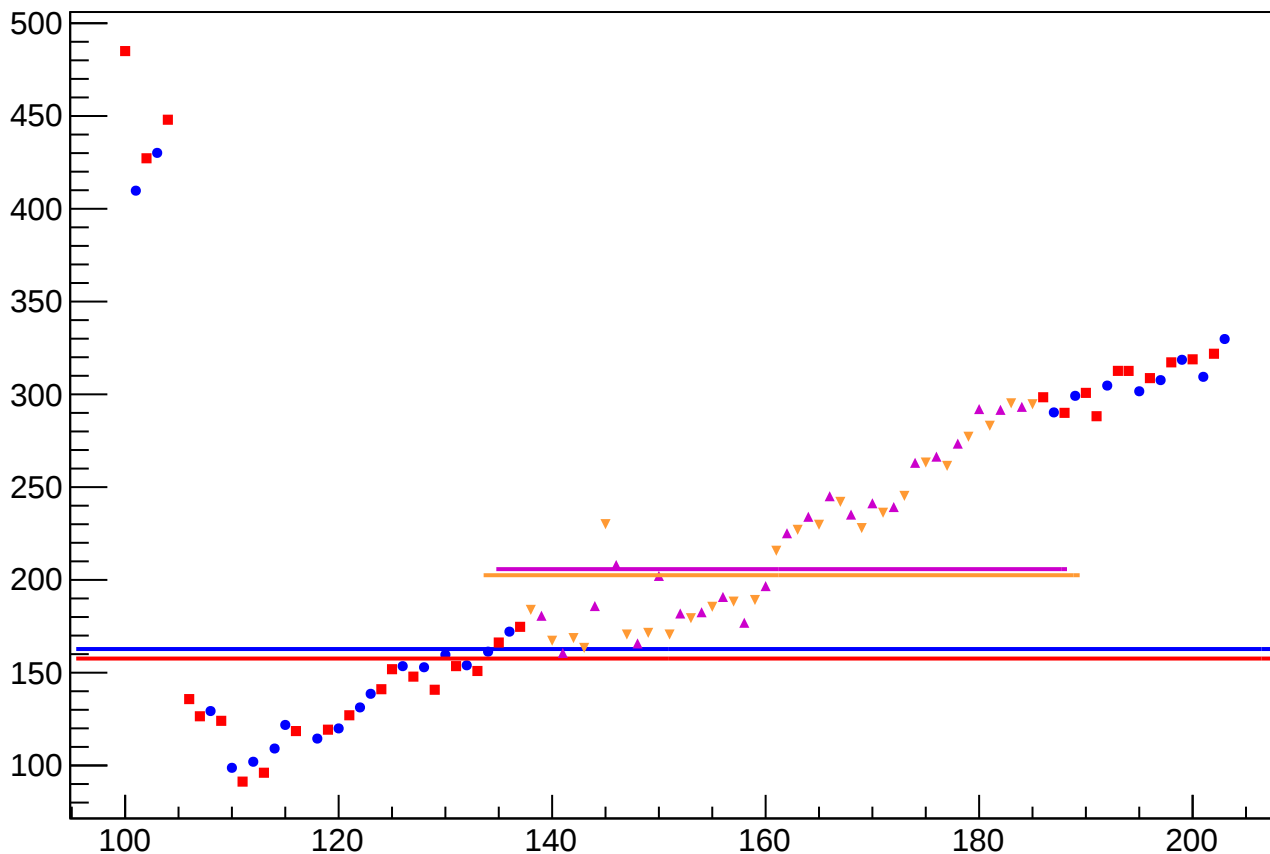
All: 175.083+/-0.017 χ^2/NDF : 12981231.2/100

yield_bpm2i02WS_mean vs Slug, Sign Corrected



Right In: 140859.261+/-0.052 χ^2/NDF : 161207471158.7/24
 Left: 133802.452+/-0.035 χ^2/NDF : 2036267179.3/24
 Left Out: 133850.586+/-0.048 χ^2/NDF : 1080107831.1/24
 Right: 140796.143+/-0.035 χ^2/NDF : 343504055606
 In: 137199.655+/-0.036 χ^2/NDF : 171774141332.3
 Right Out: 140741.795+/-0.048 χ^2/NDF : 182293845200.2/28
 Out: 137292.221+/-0.034 χ^2/NDF : 193573720770.
 Left In: 133749.630+/-0.051 χ^2/NDF : 954069486.7/22
 All: 137248.731+/-0.025 χ^2/NDF : 365351320

yield_bpm2i02WS_rms vs Slug, Sign Corrected



Right In: 162.750 $\pm$ 0.037 χ^2/NDF : 4385987.3/24

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

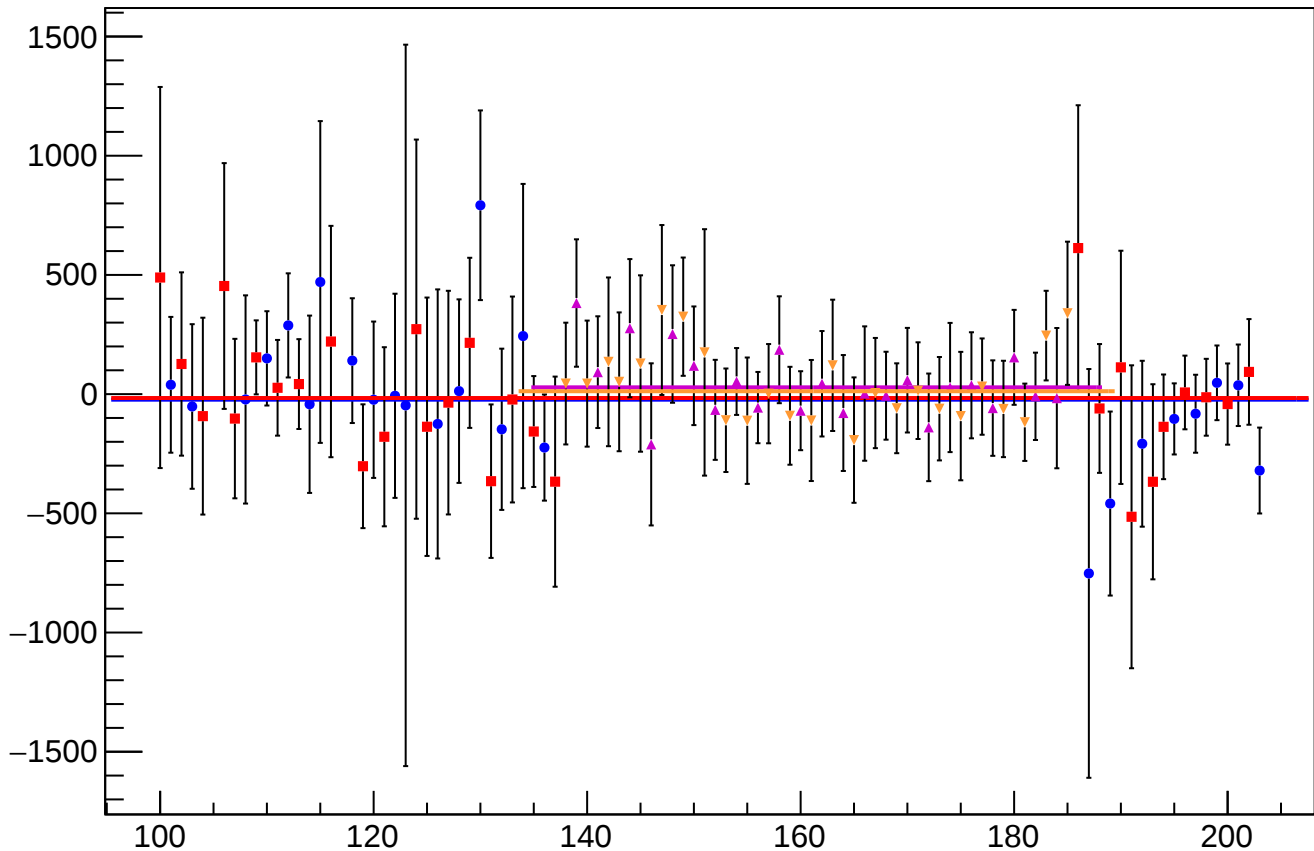
Right: 159.994 $\pm$ 0.025 χ^2/NDF : 9485324.6/53

In: 184.914 $\pm$ 0.026 χ^2/NDF :6185468.8/47

Out: 180.100 $\pm$ 0.024 χ^2/NDF :7167166.6/53

All: 182.361 $\pm$ 0.018 χ^2/NDF : 13371344.2/100

asym_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: -23.234 ± 52.429 $\chi^2/\text{NDF}: 14.9/24$

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 $\chi^2/\text{NDF}: 15.3/47$

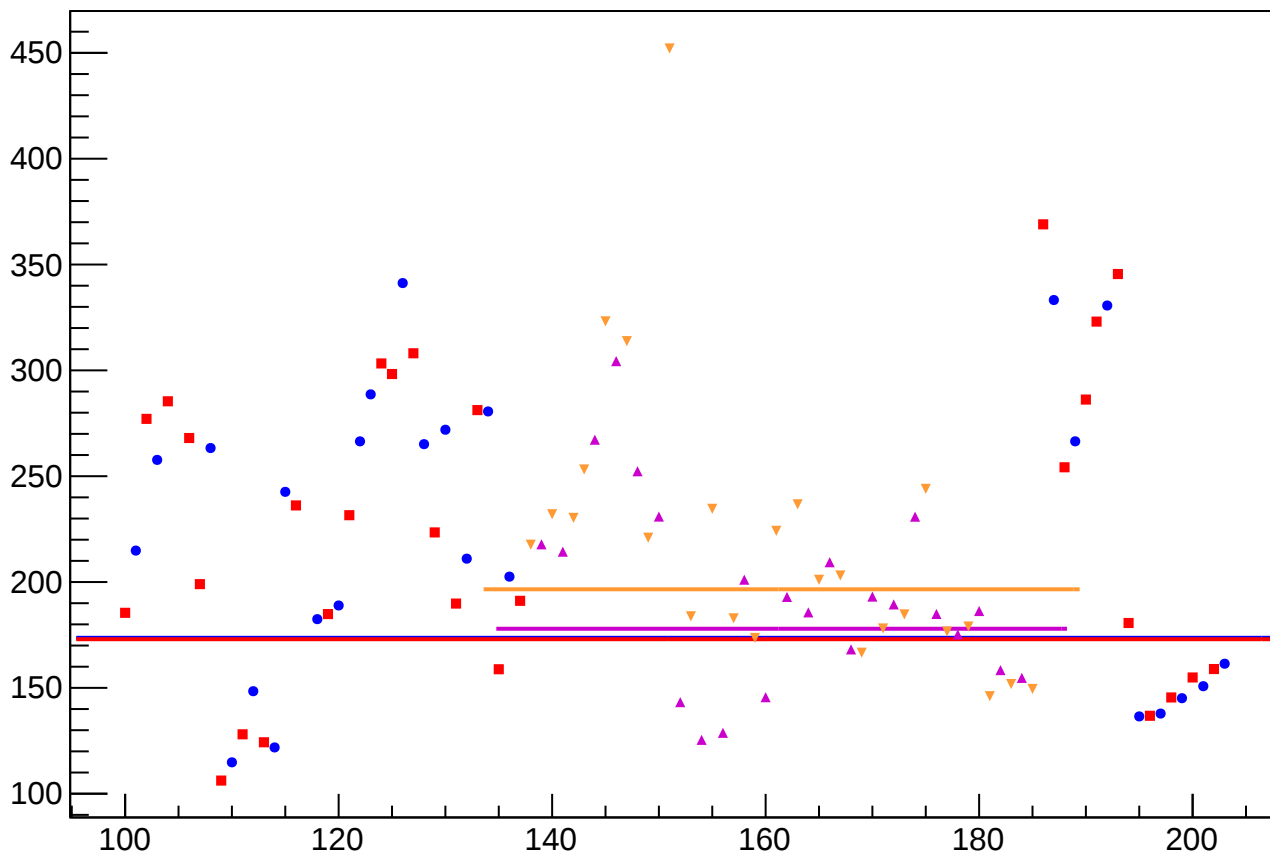
Right: -19.679 ± 36.455 $\chi^2/\text{NDF}: 25.3/53$

In: 6.702 ± 34.010 $\chi^2/\text{NDF}: 22.1/47$

Out: -1.160 ± 34.683 $\chi^2/\text{NDF}: 19.1/53$

All: 2.848 ± 24.283 $\chi^2/\text{NDF}: 41.3/101$

asym_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 173.652 $\pm$ 0.037 χ^2 /NDF: 2069339.4/24

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

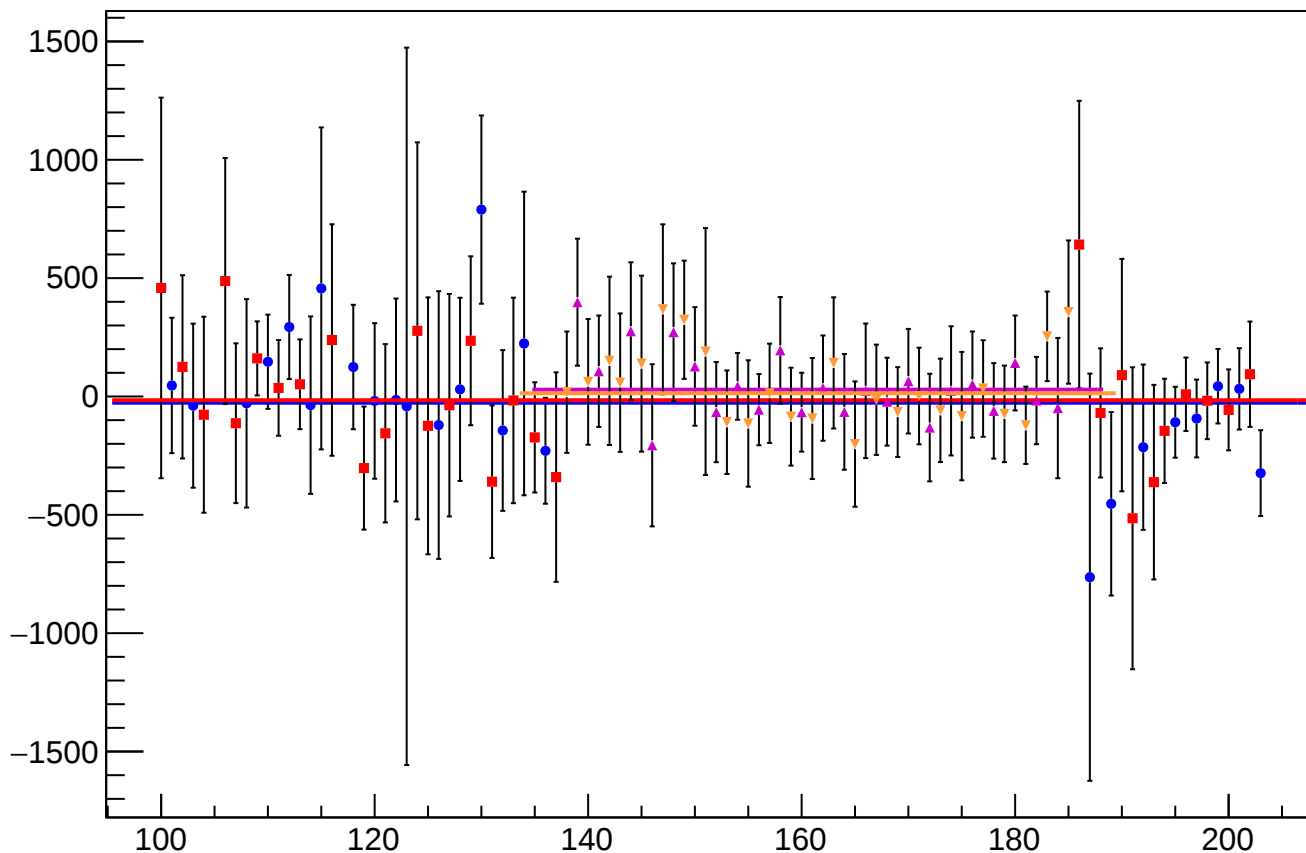
Right: 173.310 $\pm$ 0.026 χ^2 /NDF: 4814400.4/53

In: 176.131 $\pm$ 0.024 χ^2 /NDF:3682844.9/47

Out: 185.549 $\pm$ 0.025 χ^2 /NDF:4753854.7/53

All: 180.748 $\pm$ 0.017 χ^2 /NDF: 8511876.5/102

asym_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: -26.299 ± 52.688 $\chi^2/\text{NDF}: 14.8/24$

Left Out: 13.395 ± 47.862 $\chi^2/\text{NDF}: 9.0/24$

Right Out: -15.866 ± 50.981 $\chi^2/\text{NDF}: 10.7/28$

Left In: 28.806 ± 44.980 $\chi^2/\text{NDF}: 6.8/22$

Left: 21.578 ± 32.777 $\chi^2/\text{NDF}: 15.9/47$

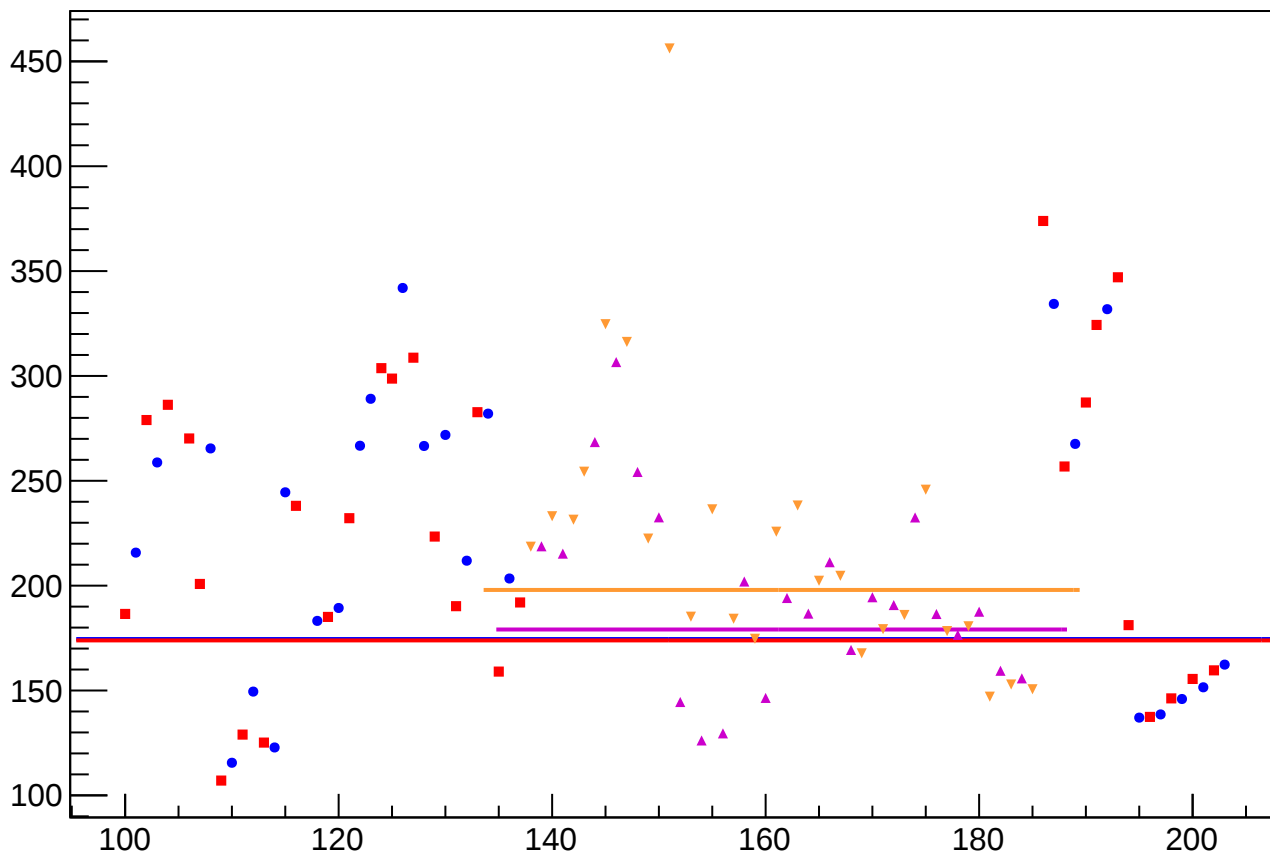
Right: -20.911 ± 36.638 $\chi^2/\text{NDF}: 25.5/53$

In: 5.575 ± 34.209 $\chi^2/\text{NDF}: 22.3/47$

Out: -0.313 ± 34.894 $\chi^2/\text{NDF}: 19.8/53$

All: 2.689 ± 24.428 $\chi^2/\text{NDF}: 42.2/101$

asym_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 174.543 $\pm$ 0.037 χ^2 /NDF: 2059817.2/24

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

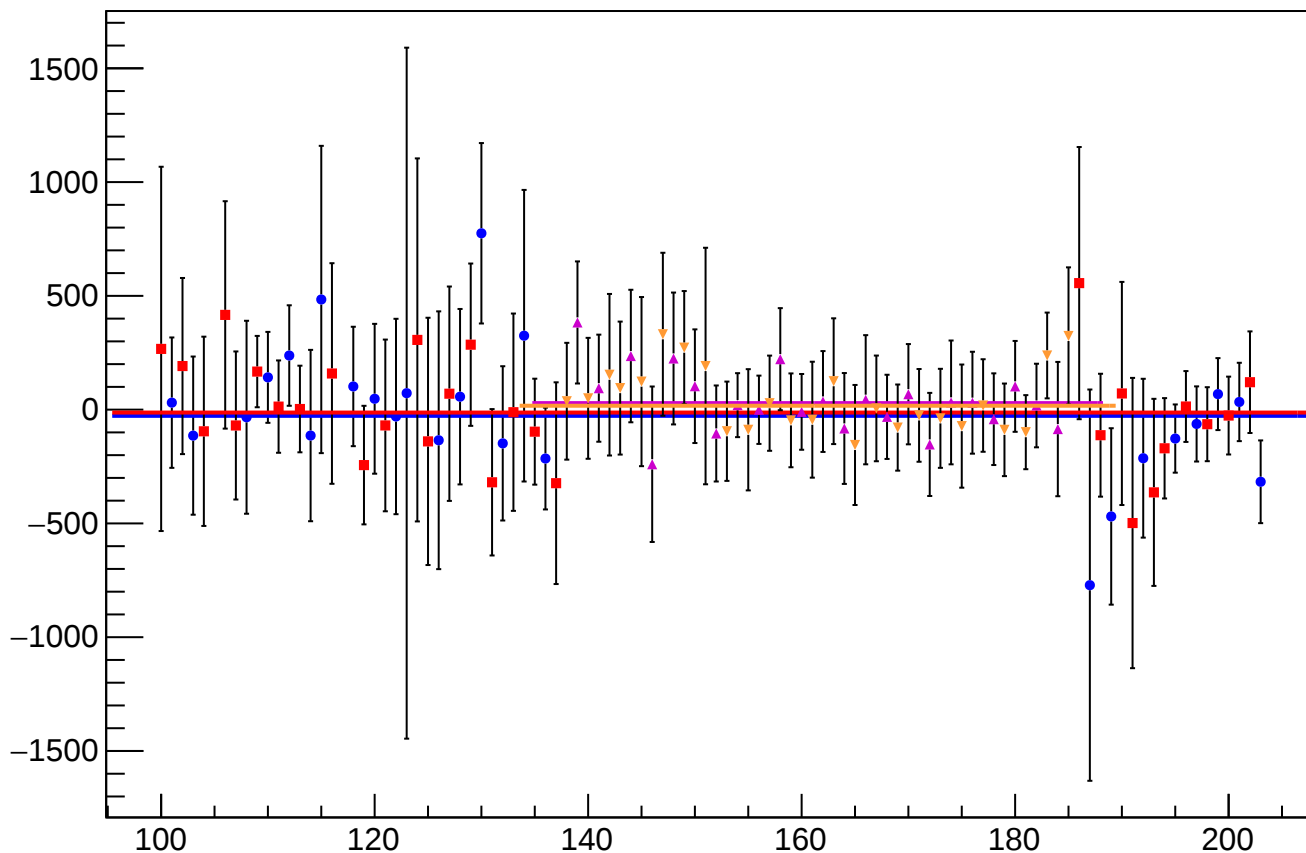
Right: 174.206 $\pm$ 0.026 χ^2 /NDF: 4799561.8/53

In: 177.173 $\pm$ 0.024 χ^2 /NDF:3673545.3/47

Out: 186.680 $\pm$ 0.025 χ^2 /NDF:4750937.7/53

All: 181.832 $\pm$ 0.017 χ^2 /NDF: 8500180.6/103

asym_bcm_an_us_mean vs Slug, Sign Corrected



Right In: -27.225 ± 52.767 $\chi^2/\text{NDF}: 14.4/24$

Left Out: 17.142 ± 47.738 $\chi^2/\text{NDF}: 7.1/24$

Right Out: -12.808 ± 50.974 $\chi^2/\text{NDF}: 9.3/28$

Left In: 28.655 ± 44.859 $\chi^2/\text{NDF}: 6.1/22$

Left: 23.256 ± 32.690 $\chi^2/\text{NDF}: 13.2/47$

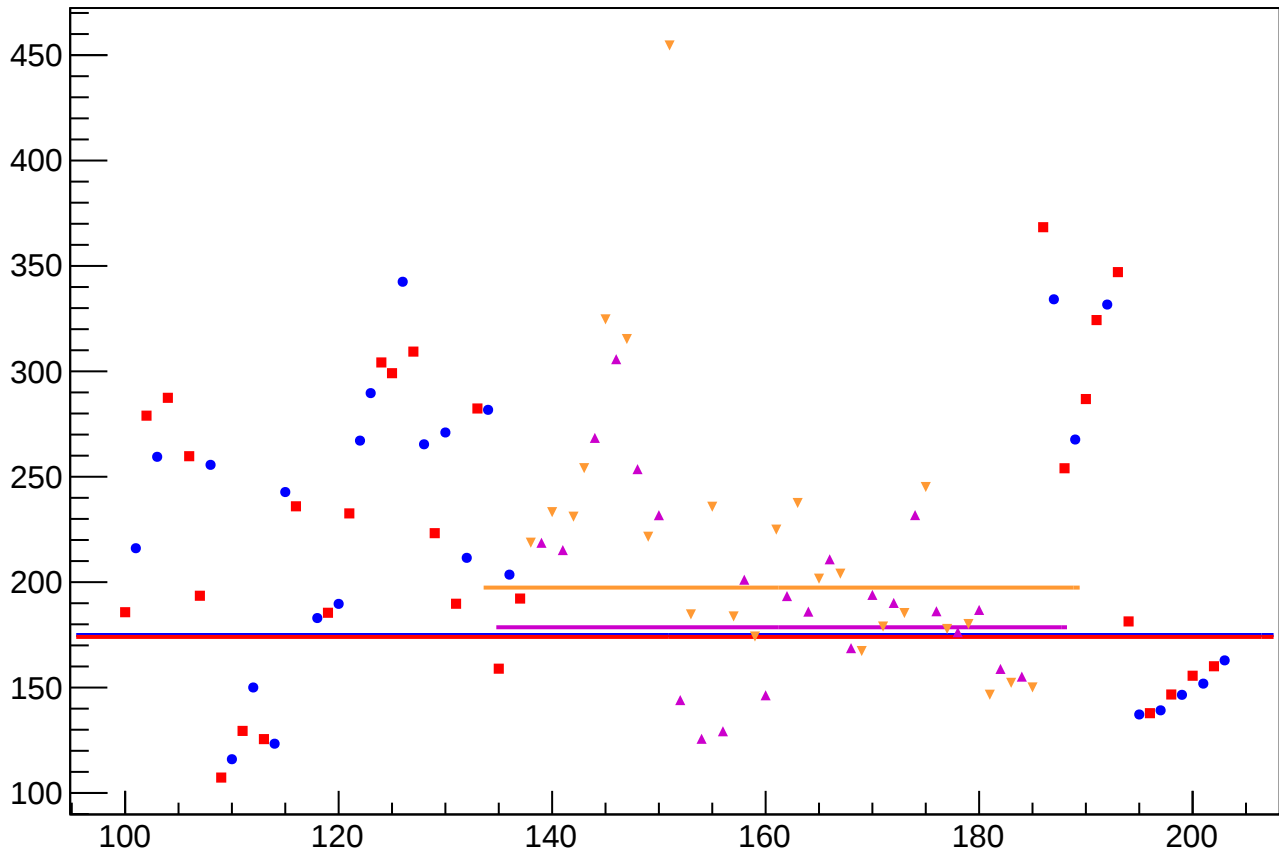
Right: -19.767 ± 36.662 $\chi^2/\text{NDF}: 23.7/53$

In: 5.212 ± 34.178 $\chi^2/\text{NDF}: 21.1/47$

Out: 3.148 ± 34.844 $\chi^2/\text{NDF}: 16.6/53$

All: 4.200 ± 24.399 $\chi^2/\text{NDF}: 37.7/101$

asym_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 174.928 $\pm$ 0.037 χ^2 /NDF: 2028689.7/24

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

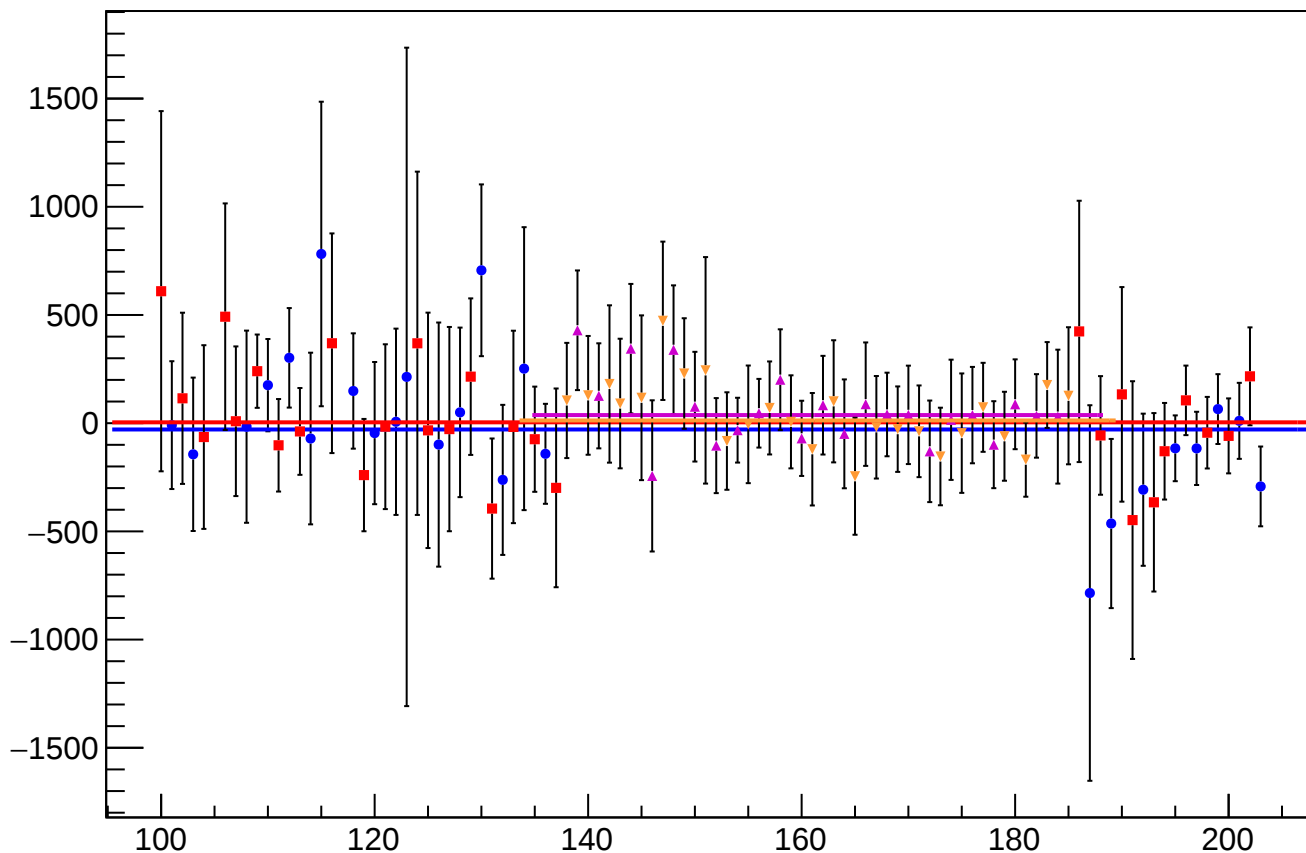
Right: 174.459 $\pm$ 0.026 χ^2 /NDF: 4724423.0/53

In: 177.060 $\pm$ 0.024 χ^2 /NDF:3643312.5/47

Out: 186.488 $\pm$ 0.025 χ^2 /NDF:4700223.2/53

All: 181.683 $\pm$ 0.017 χ^2 /NDF: 8418157.6/103

asym_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: -29.104 ± 54.011 χ^2/NDF : 14.9/24

Left Out: 12.632 ± 49.242 χ^2/NDF : 7.5/24

Right Out: 3.913 ± 52.511 χ^2/NDF : 11.5/28

Left In: 37.460 ± 46.479 χ^2/NDF : 7.6/22

Left: 25.762 ± 33.800 χ^2/NDF : 15.3/47

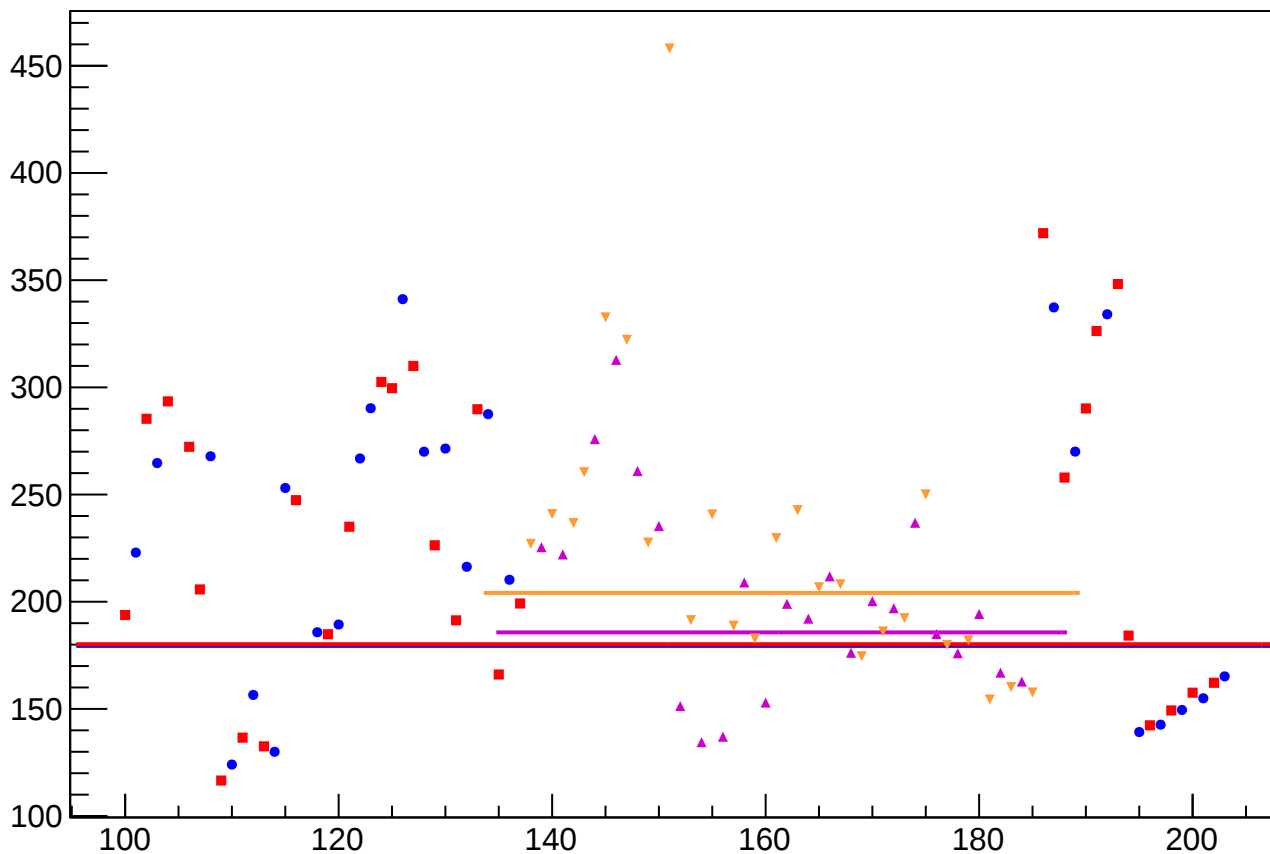
Right: -12.131 ± 37.650 χ^2/NDF : 26.6/53

In: 9.140 ± 35.230 χ^2/NDF : 23.4/47

Out: 8.553 ± 35.920 χ^2/NDF : 19.1/53

All: 8.852 ± 25.152 χ^2/NDF : 42.5/101

asym_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 179.422 $\pm$ 0.038 χ^2 /NDF: 1948673.0/24

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

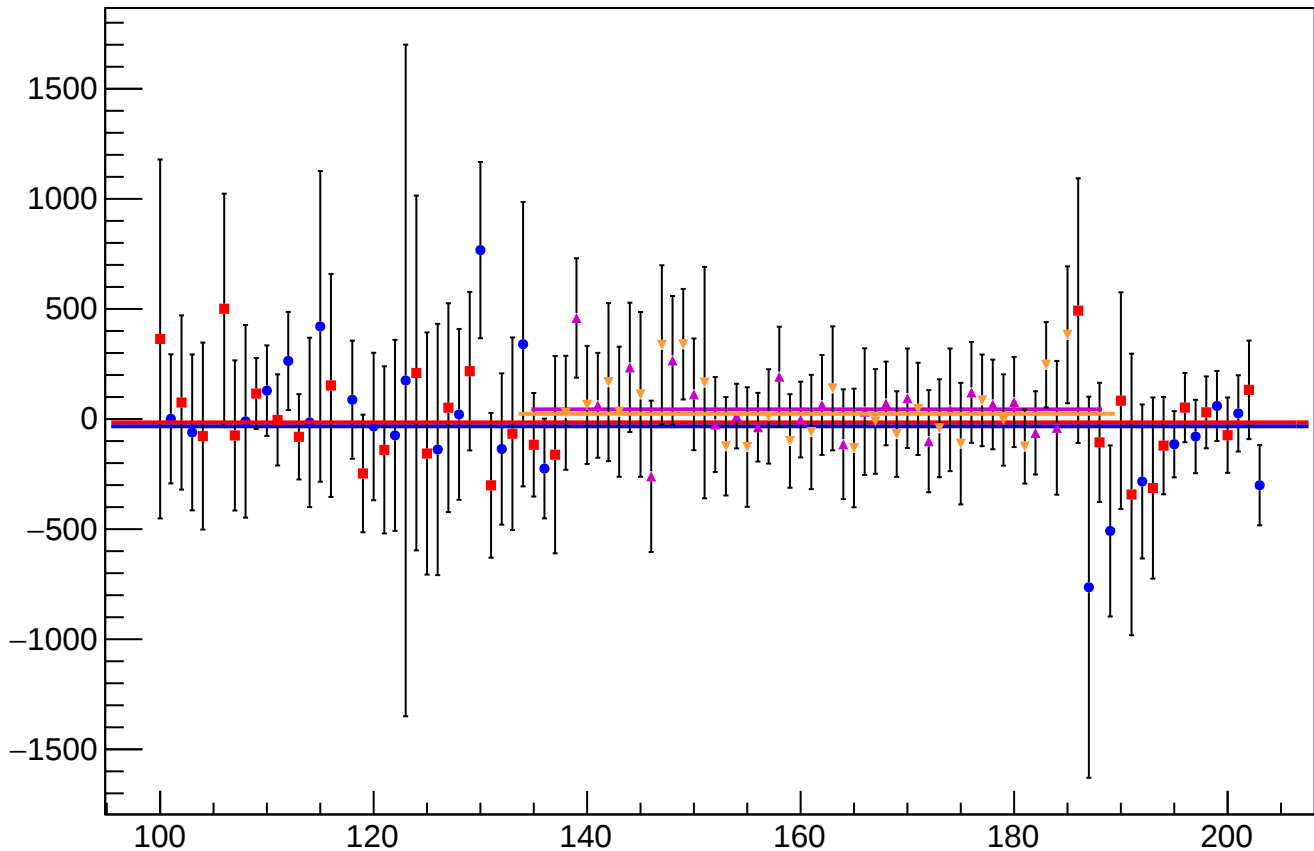
Right: 179.814 $\pm$ 0.027 χ^2 /NDF: 4447856.5/53

In: 183.025 $\pm$ 0.025 χ^2 /NDF:3411934.1/47

Out: 192.927 $\pm$ 0.025 χ^2 /NDF:4392589.5/53

All: 187.880 $\pm$ 0.018 χ^2 /NDF: 7881982.9/103

asym_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: -32.722 ± 53.336 $\chi^2/\text{NDF}: 14.0/24$

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 $\chi^2/\text{NDF}: 15.1/47$

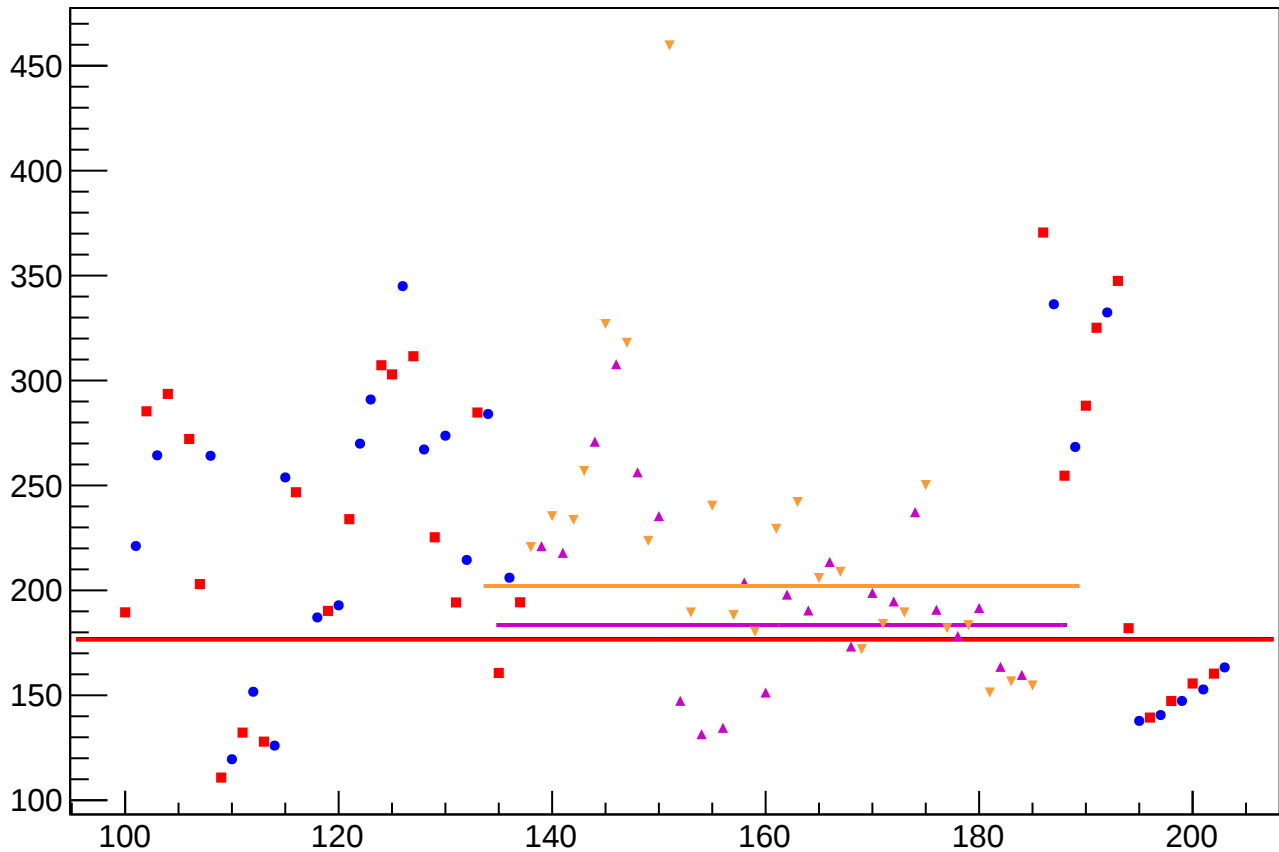
Right: -23.632 ± 37.100 $\chi^2/\text{NDF}: 21.4/53$

In: 11.278 ± 34.826 $\chi^2/\text{NDF}: 21.7/47$

Out: 5.474 ± 35.462 $\chi^2/\text{NDF}: 16.1/53$

All: 8.428 ± 24.847 $\chi^2/\text{NDF}: 37.8/101$

asym_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 176.847 ± 0.038 χ^2/NDF : 2031581.8/24

Left Out: 202.081 ± 0.034 χ^2/NDF : 1692787.9/24

Right Out: 176.504 ± 0.037 χ^2/NDF : 2667216.0/28

Left In: 183.498 ± 0.033 χ^2/NDF : 1483383.4/22

Left: 192.240 ± 0.024 χ^2/NDF : 3329846.6/47

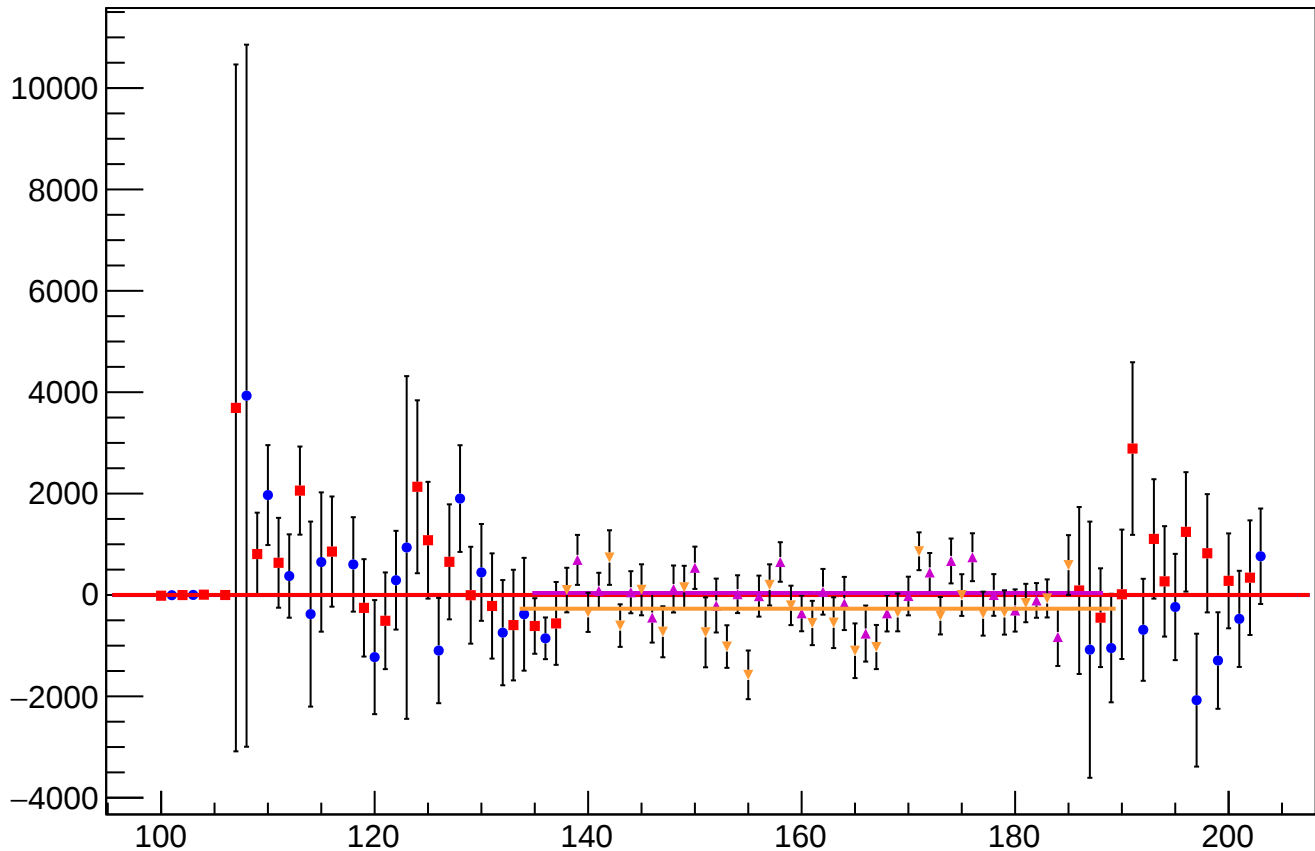
Right: 176.670 ± 0.026 χ^2/NDF : 4698840.6/53

In: 180.663 ± 0.025 χ^2/NDF : 3532805.8/47

Out: 190.020 ± 0.025 χ^2/NDF : 4619258.7/53

All: 185.256 ± 0.018 χ^2/NDF : 8222947.7/103

asym_cav4bQ_mean vs Slug, Sign Corrected



Right In: -1.551 ± 2.251 χ^2/NDF : 24.3/24

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

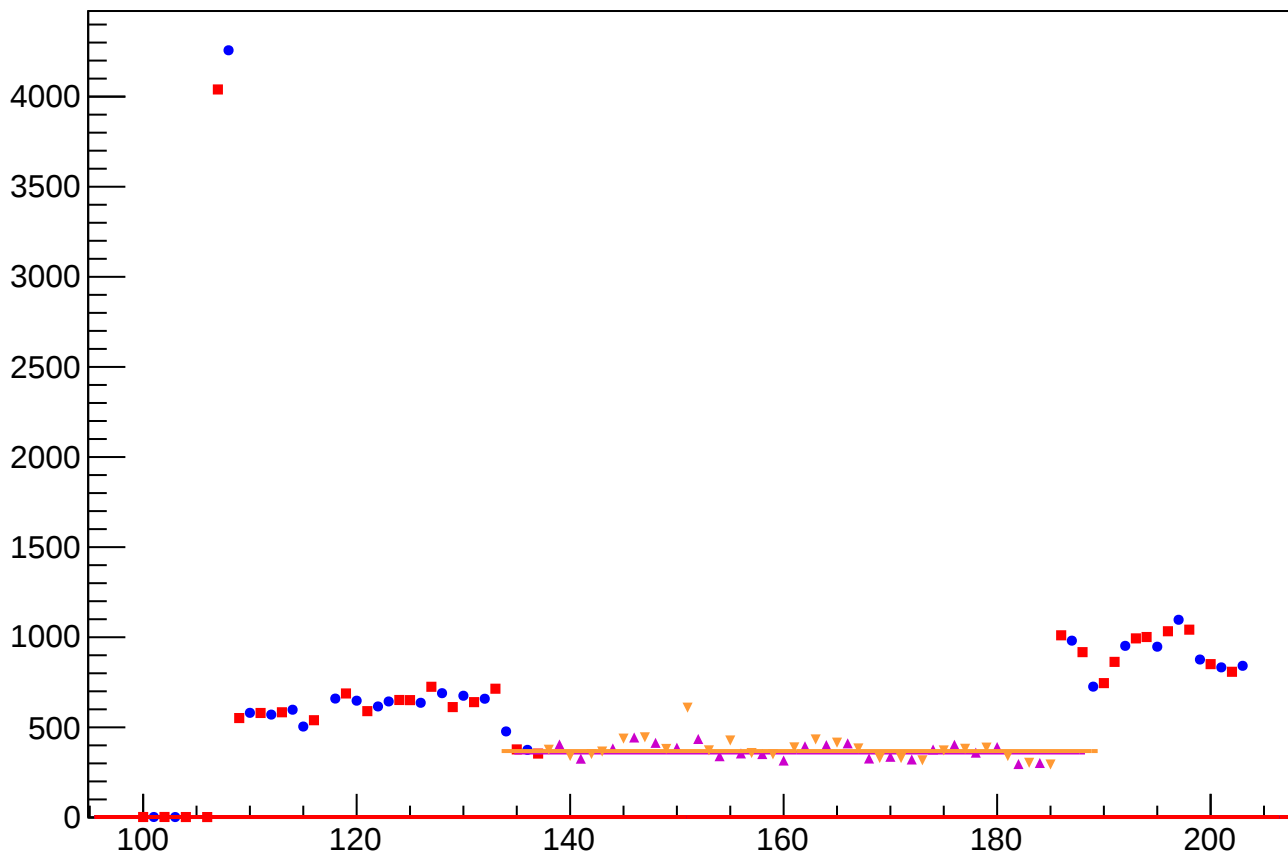
Right: -0.331 ± 1.540 χ^2/NDF : 49.8/53

In: -1.524 ± 2.251 χ^2/NDF : 44.8/47

Out: 0.582 ± 2.110 χ^2/NDF : 72.8/53

All: -0.403 ± 1.540 χ^2/NDF : 118.1/101

asym_cav4bQ_rms vs Slug, Sign Corrected



Right In: 2.487+/-0.002 χ^2/NDF : 21628516.7/24

Left Out: 368.397+/-0.061 χ^2/NDF : 622466.1/24

Right Out: 2.467+/-0.001 χ^2/NDF : 23681266.4/28

Left In: 360.408+/-0.062 χ^2/NDF : 417739.4/22

Left: 364.439+/-0.044 χ^2/NDF : 1048566.0/47

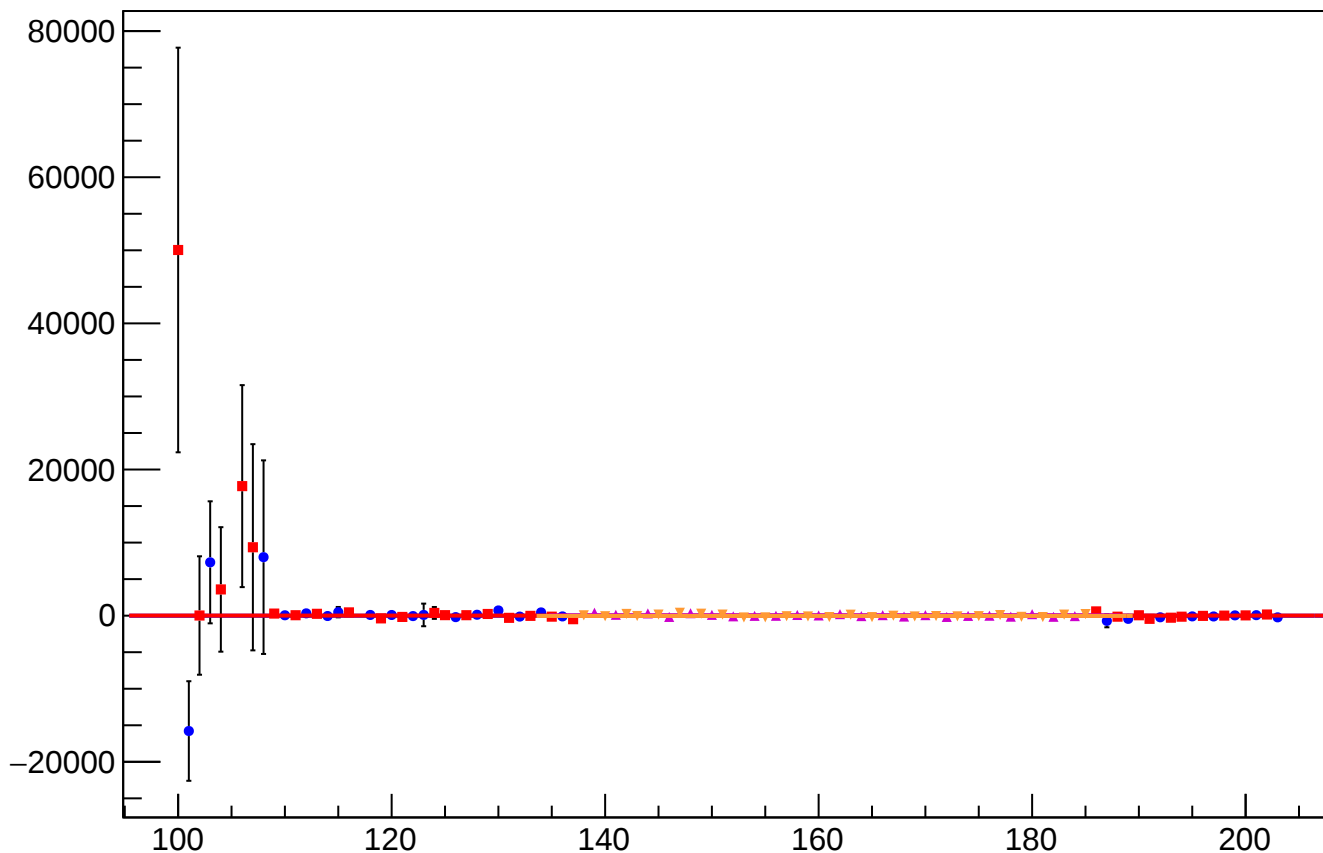
Right: 2.476+/-0.001 χ^2/NDF : 45309870.9/53

In: 2.722+/-0.002 χ^2/NDF : 55284043.9/47

Out: 2.682+/-0.001 χ^2/NDF : 59691972.7/53

All: 2.701+/-0.001 χ^2/NDF : 114976357.7/101

asym_cav4cQ_mean vs Slug, Sign Corrected



Right In: -8.692 ± 58.819 $\chi^2/\text{NDF}: 17.7/24$

Left Out: -38.013 ± 49.628 $\chi^2/\text{NDF}: 9.3/24$

Right Out: 12.325 ± 58.018 $\chi^2/\text{NDF}: 17.1/28$

Left In: 28.205 ± 48.167 $\chi^2/\text{NDF}: 9.2/22$

Left: -3.915 ± 34.564 $\chi^2/\text{NDF}: 19.4/47$

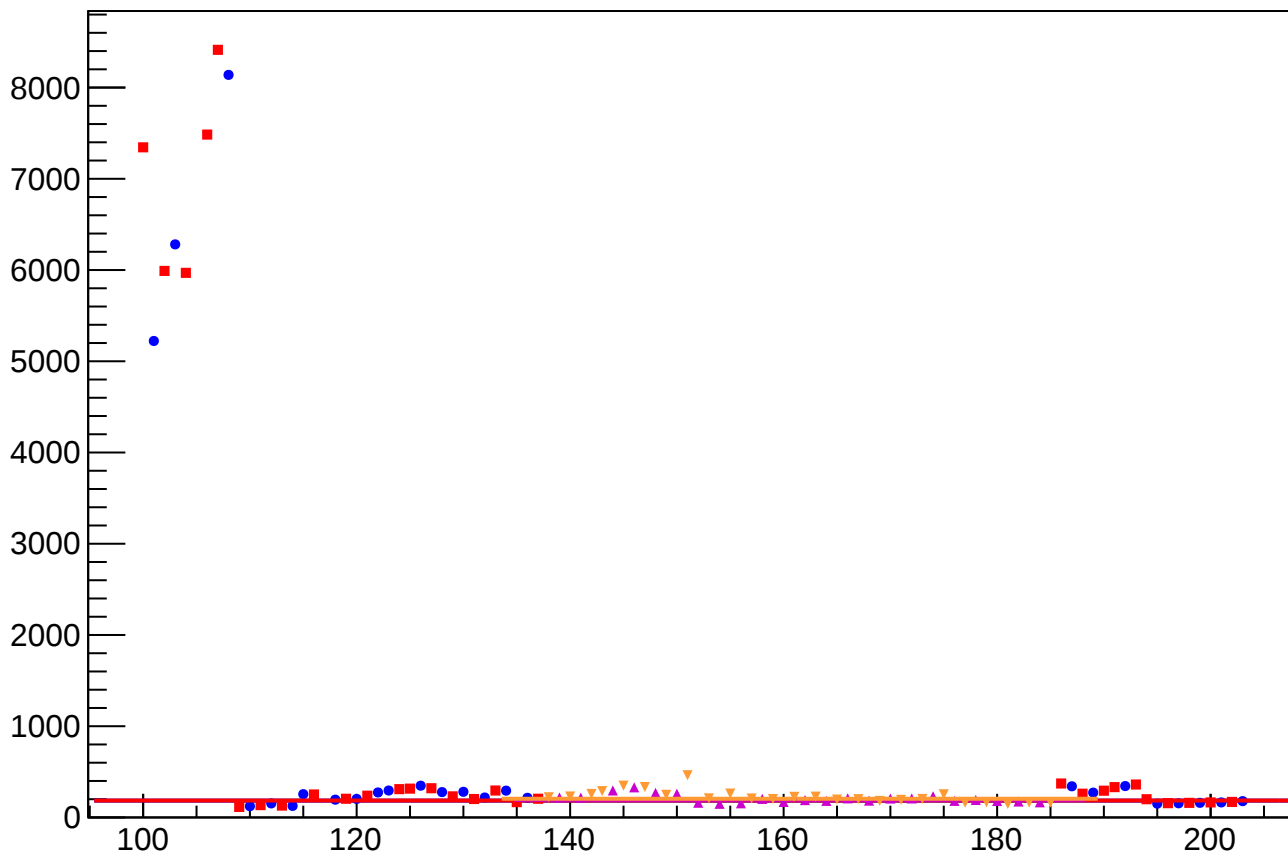
Right: 1.961 ± 41.305 $\chi^2/\text{NDF}: 34.8/53$

In: 13.394 ± 37.266 $\chi^2/\text{NDF}: 27.1/47$

Out: -16.744 ± 37.713 $\chi^2/\text{NDF}: 26.8/53$

All: -1.495 ± 26.508 $\chi^2/\text{NDF}: 54.3/101$

asym_cav4cQ_rms vs Slug, Sign Corrected



Right In: 184.246+/-0.042 χ^2/NDF : 4482517.4/24

Left Out: 205.027+/-0.035 χ^2/NDF :1956045.1/24

Right Out: 185.578+/-0.041 χ^2/NDF : 5330117.3/28

Left In: 193.405+/-0.034 χ^2/NDF :1172169.3/22

Left: 199.042+/-0.024 χ^2/NDF : 3184695.4/47

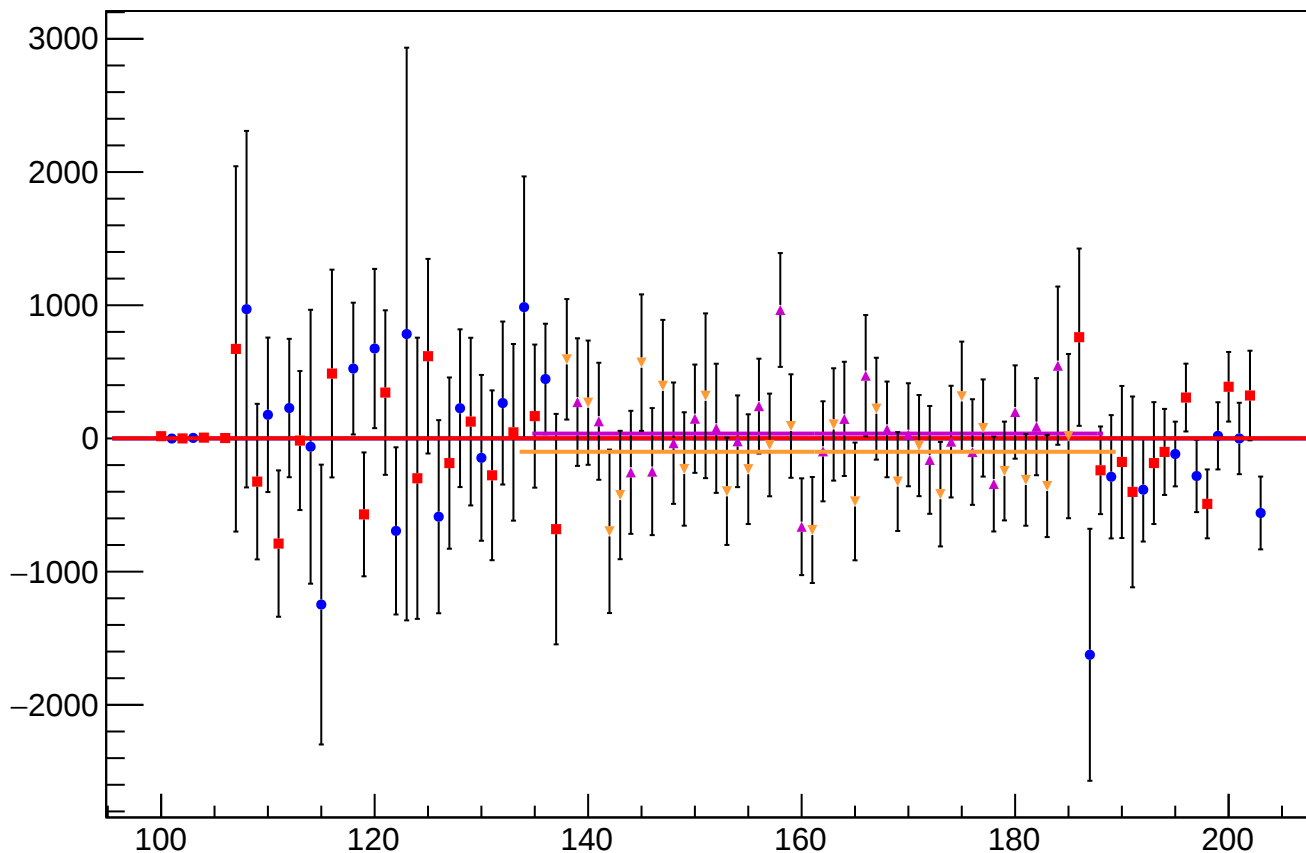
Right: 184.921+/-0.029 χ^2/NDF : 9813154.0/53

In: 189.728+/-0.026 χ^2/NDF :5683710.1/47

Out: 196.809+/-0.027 χ^2/NDF :7415948.6/53

All: 193.227+/-0.019 χ^2/NDF : 13135328.8/100

asym_cav4dQ_mean vs Slug, Sign Corrected



Right In: -0.196 ± 1.736 χ^2/NDF : 19.9/24

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

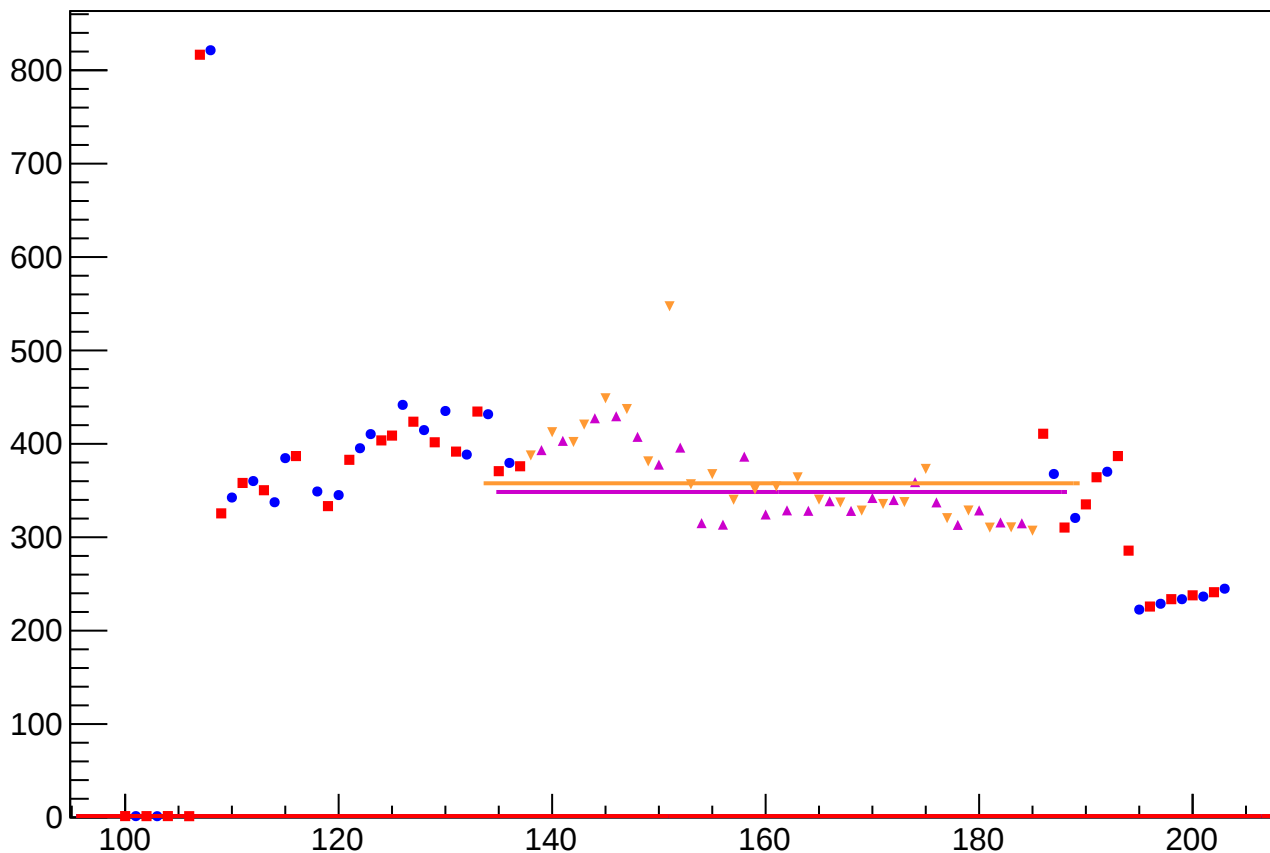
Right: 0.618 ± 1.185 χ^2/NDF : 40.3/53

In: -0.181 ± 1.736 χ^2/NDF : 33.6/47

Out: 1.291 ± 1.622 χ^2/NDF : 37.2/53

All: 0.605 ± 1.185 χ^2/NDF : 71.2/101

asym_cav4dQ_rms vs Slug, Sign Corrected



Right In: 1.517 $\pm$ 0.001 χ^2 /NDF: 21846427.2/24

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

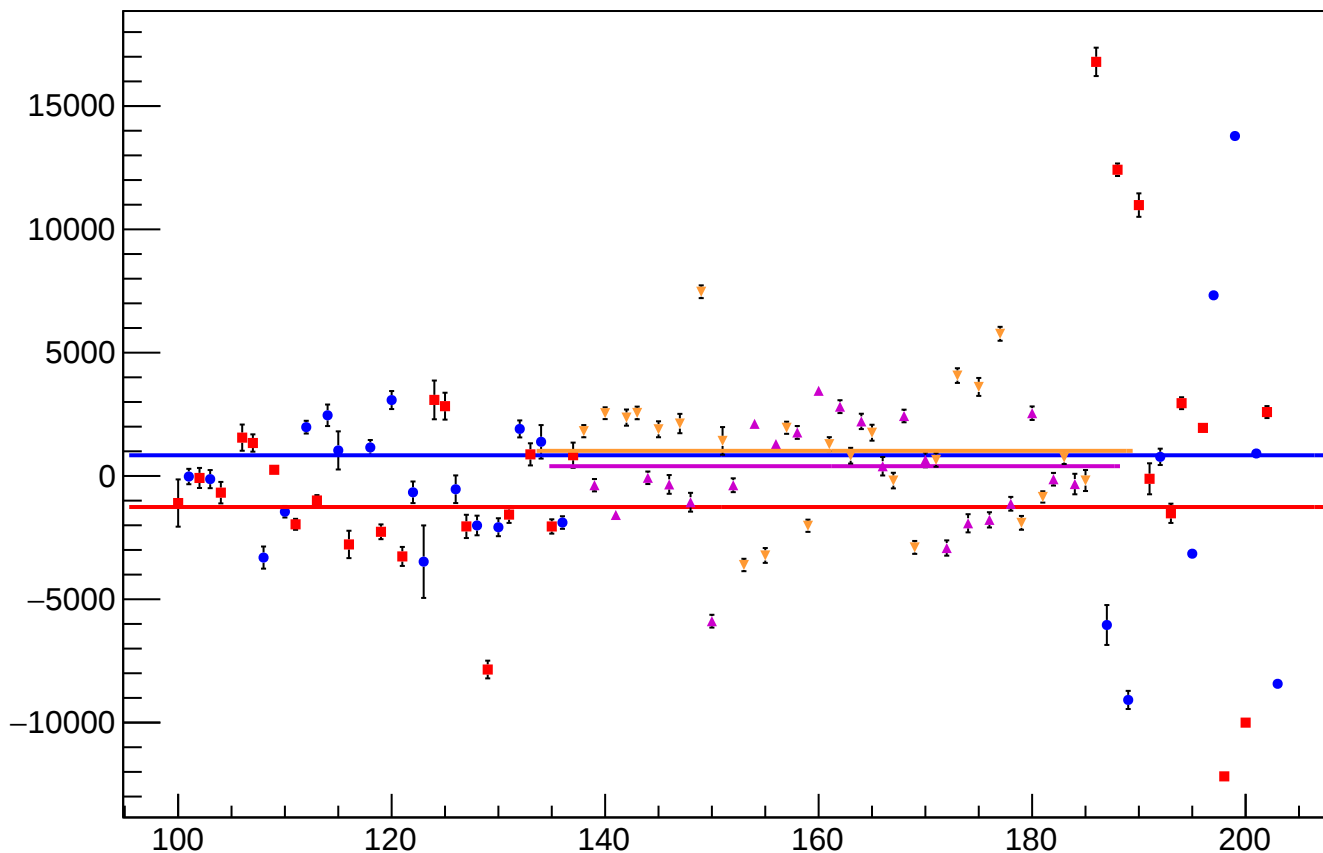
Right: 1.513 $\pm$ 0.001 χ^2 /NDF: 45187218.2/53

In: 1.663 $\pm$ 0.001 χ^2 /NDF: 55769827.3/47

Out: 1.643 $\pm$ 0.001 χ^2 /NDF: 59688158.0/53

All: 1.652 $\pm$ 0.001 χ^2 /NDF: 115458130.2/101

asym_bcm0l02_mean vs Slug, Sign Corrected



Right In: 839.043+/-58.358 χ^2/NDF : 10605.6/24

Left Out: 1018.965+/-57.402 χ^2/NDF :2310.1/24

Right Out: -1259.065+/-56.140 χ^2/NDF : 11894.5/28

Left In: 396.609+/-55.090 χ^2/NDF :1581.0/22

Left: 695.002+/-39.747 χ^2/NDF : 3952.3/47

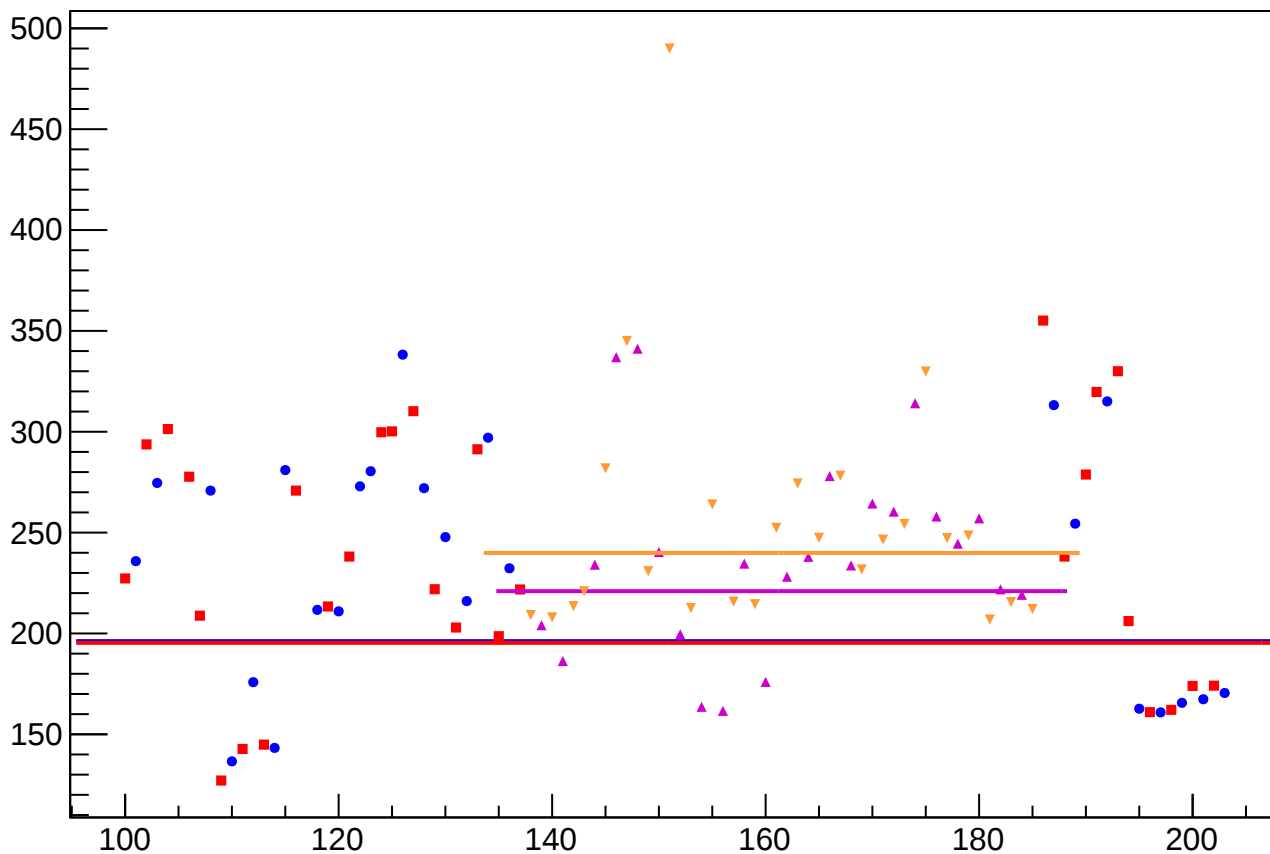
Right: -250.647+/-40.458 χ^2/NDF : 23171.4/53

In: 605.092+/-40.060 χ^2/NDF :12217.0/47

Out: -145.374+/-40.136 χ^2/NDF :15009.6/53

All: 230.565+/-28.353 χ^2/NDF : 27401.7/101

asym_bcm0l02_rms vs Slug, Sign Corrected



Right In: 196.193 ± 0.041 $\chi^2/\text{NDF}: 1412130.0/24$

Left Out: 239.942 ± 0.041 $\chi^2/\text{NDF}: 1000770.0/24$

Right Out: 195.332 ± 0.040 $\chi^2/\text{NDF}: 1961576.2/28$

Left In: 220.972 ± 0.039 $\chi^2/\text{NDF}: 1327680.6/22$

Left: 230.067 ± 0.028 $\chi^2/\text{NDF}: 2442154.9/47$

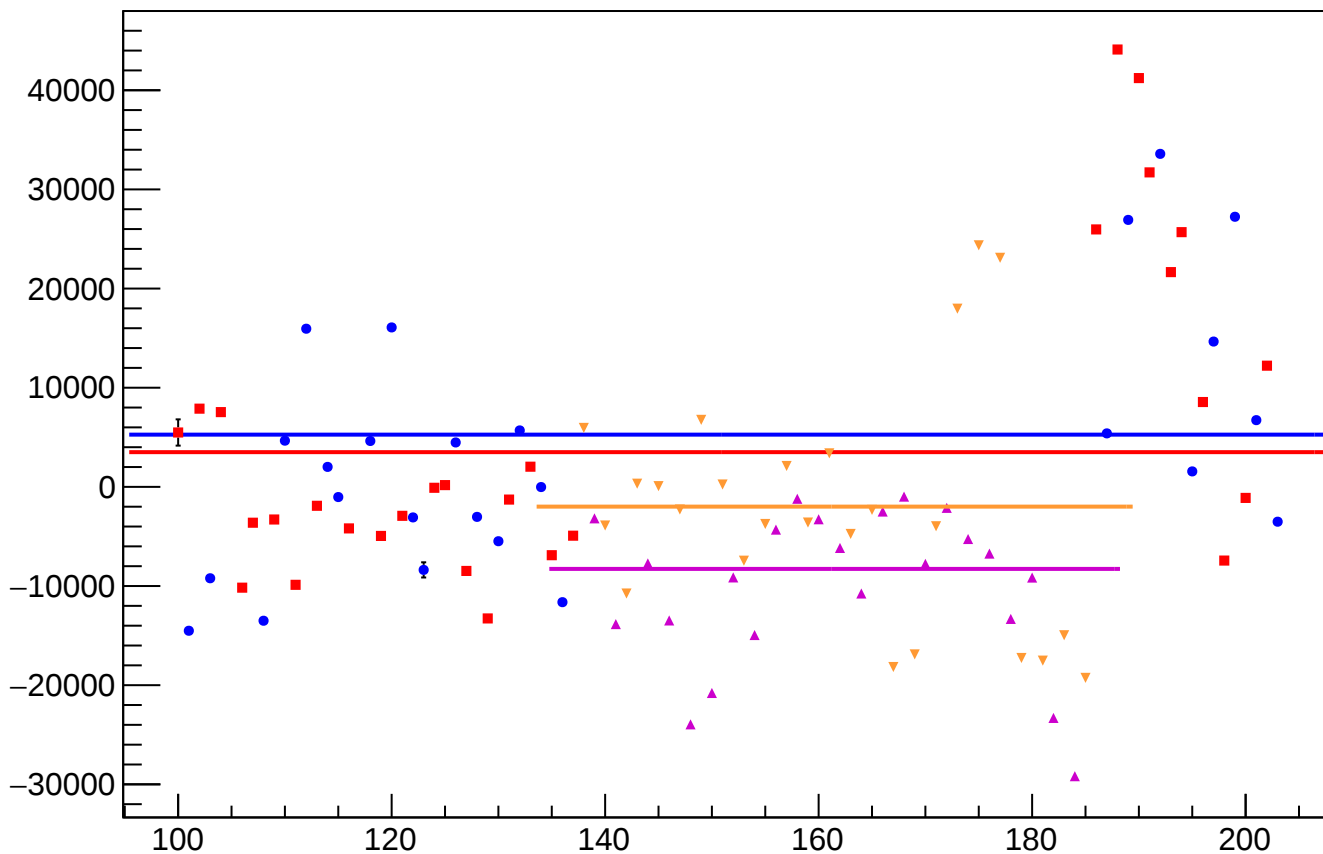
Right: 195.746 ± 0.029 $\chi^2/\text{NDF}: 3373932.4/53$

In: 209.295 ± 0.028 $\chi^2/\text{NDF}: 2930472.0/47$

Out: 217.141 ± 0.028 $\chi^2/\text{NDF}: 3579743.7/53$

All: 213.211 ± 0.020 $\chi^2/\text{NDF}: 6548496.9/103$

asym_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 5267.696 $\pm$ 44.348 χ^2 /NDF: 86495.0/24

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

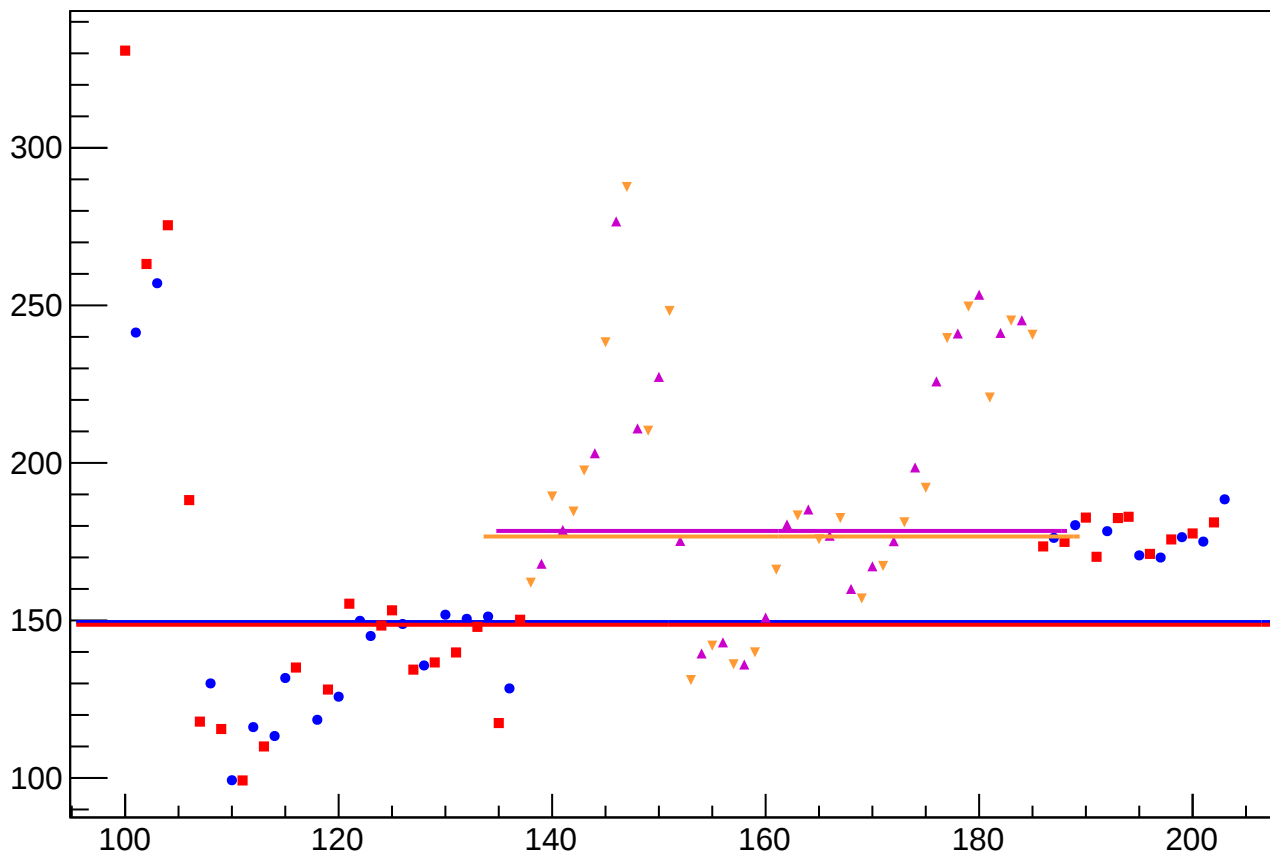
Right: 4336.926 $\pm$ 30.501 χ^2 /NDF: 219371.0/53

In: -1509.965 $\pm$ 31.342 χ^2 /NDF:156028.3/47

Out: 781.485 $\pm$ 29.854 χ^2 /NDF:204270.0/53

All: -308.555 $\pm$ 21.617 χ^2 /NDF: 363100.8/10

asym_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 149.494+/-0.031 χ^2/NDF : 1064776.5/24

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

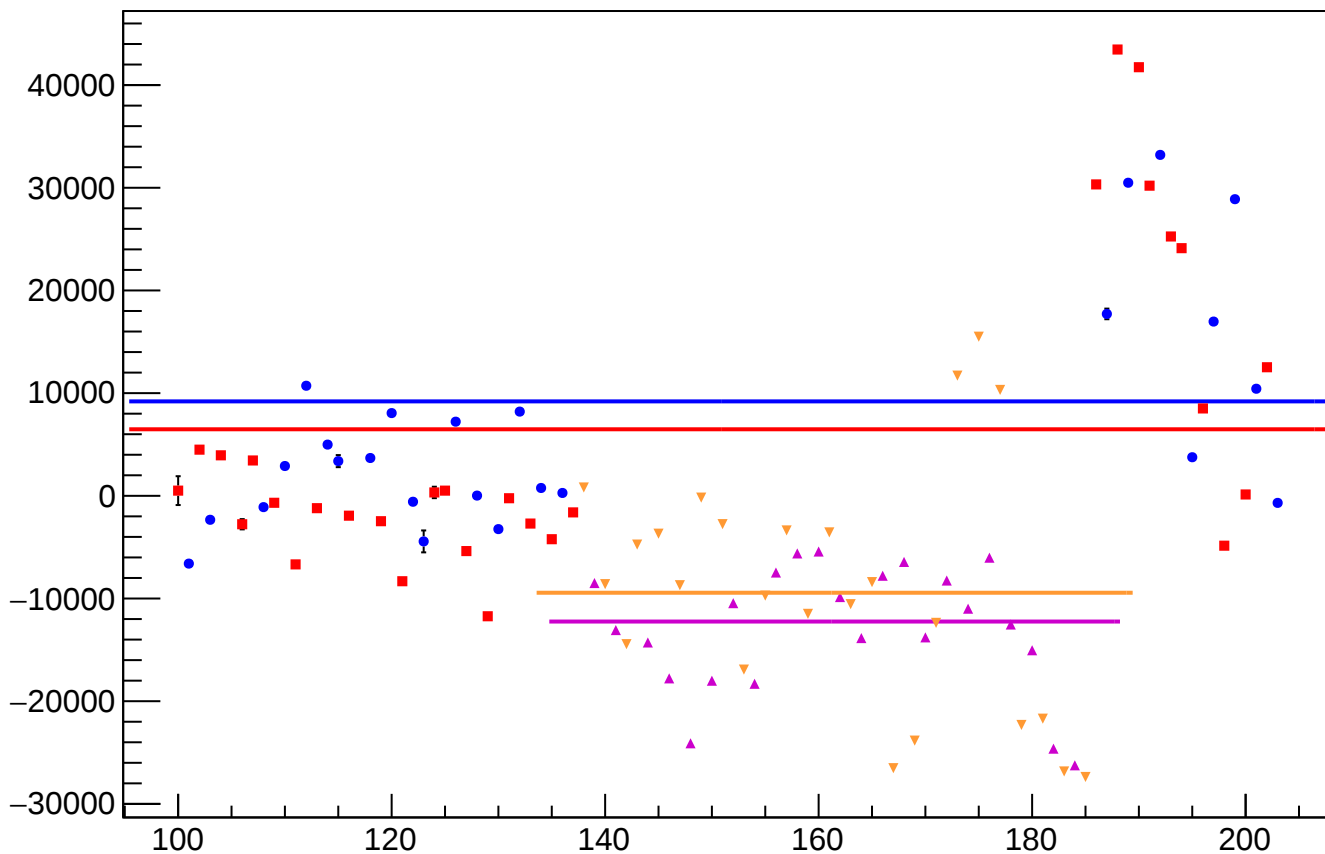
Right: 149.040+/-0.022 χ^2/NDF : 2418557.7/53

In: 163.969+/-0.022 χ^2/NDF :2784198.7/47

Out: 162.500+/-0.021 χ^2/NDF :3344487.7/53

All: 163.199+/-0.015 χ^2/NDF : 6130988.5/103

asym_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 9197.469+/-51.213

χ^2/NDF : 48378.8/24

Left: -10889.638+/-31.621

χ^2/NDF : 80800.7/47

Left Out: -9437.408+/-45.534

χ^2/NDF : 62220.4/24

Right: 7759.557+/-35.140

χ^2/NDF : 151996.1/53

Right Out: 6480.357+/-48.304

χ^2/NDF : 102127.7/28

In: -3150.561+/-33.350

χ^2/NDF : 165932.5/47

Out: -1947.955+/-33.134

χ^2/NDF : 221846.3/53

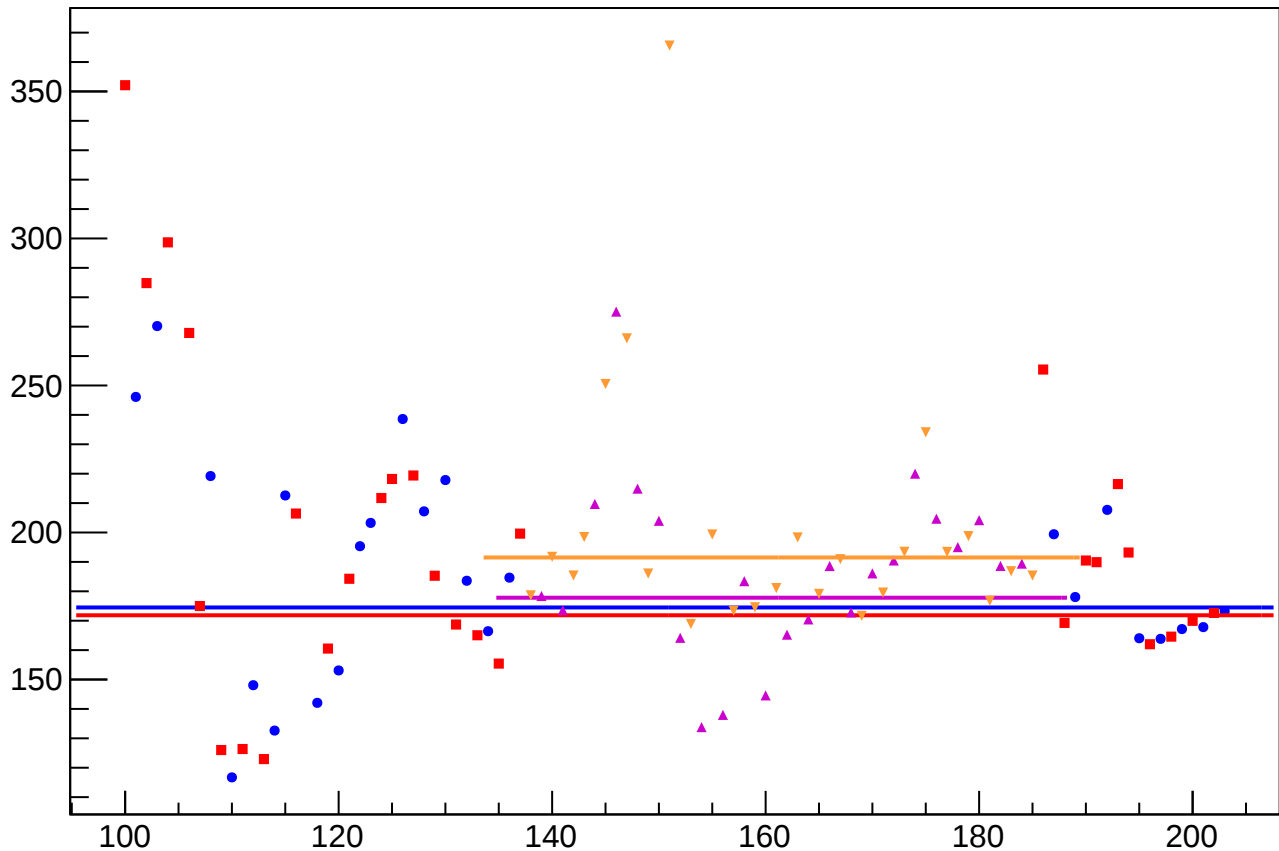
Left In: -12242.226+/-43.944

χ^2/NDF : 16615.8/22

All: -2545.346+/-23.505

χ^2/NDF : 388433.1/1

asym_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 174.506 ± 0.036 $\chi^2/\text{NDF}: 758144.9/24$

Left Out: 191.507 ± 0.032 $\chi^2/\text{NDF}: 727251.6/24$

Right Out: 171.850 ± 0.034 $\chi^2/\text{NDF}: 1123599.9/28$

Left In: 177.821 ± 0.031 $\chi^2/\text{NDF}: 862494.4/22$

Left: 184.421 ± 0.022 $\chi^2/\text{NDF}: 1683284.8/47$

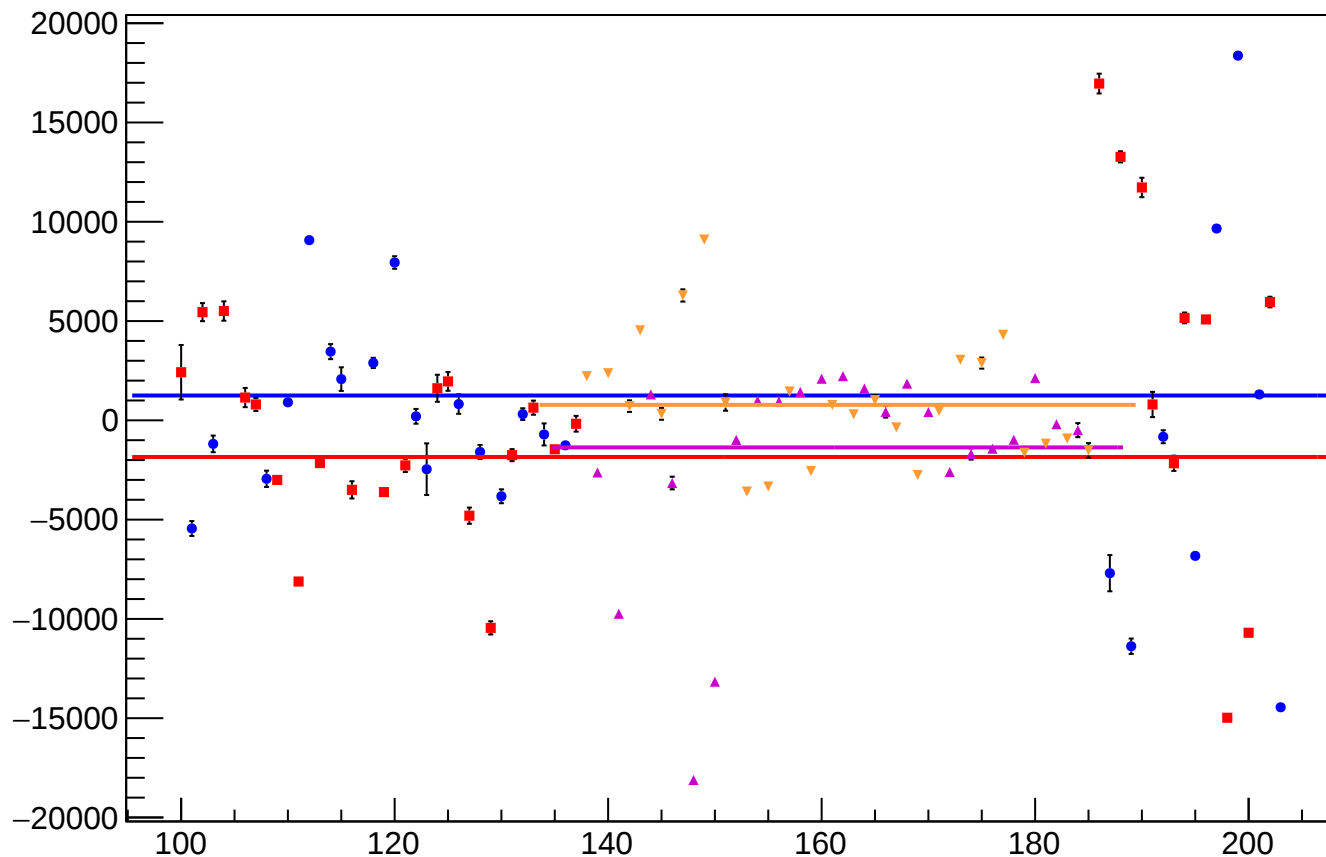
Right: 173.100 ± 0.025 $\chi^2/\text{NDF}: 1884590.8/53$

In: 176.415 ± 0.024 $\chi^2/\text{NDF}: 1625468.0/47$

Out: 182.258 ± 0.023 $\chi^2/\text{NDF}: 2026216.8/53$

All: 179.356 ± 0.017 $\chi^2/\text{NDF}: 3682577.7/103$

asym_bpm0i05WS_mean vs Slug, Sign Corrected



Right In: 1250.674+/-57.546 χ^2/NDF : 19635.7/24

Left Out: 779.983+/-47.457 χ^2/NDF : 4260.8/24

Right Out: -1844.516+/-54.666 χ^2/NDF : 16534.3/28

Left In: -1363.043+/-45.807 χ^2/NDF : 11632.9/22

Left: -329.448+/-32.958 χ^2/NDF : 16949.3/47

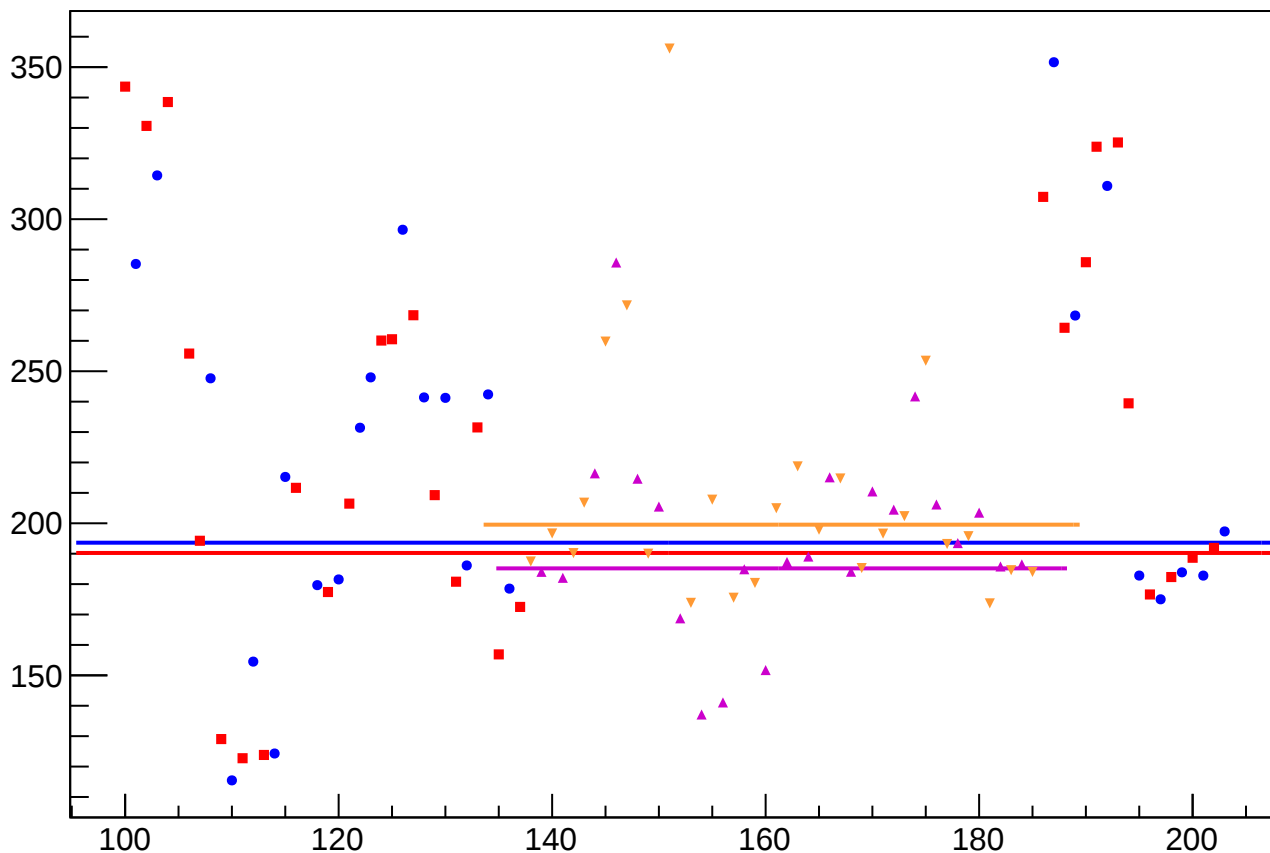
Right: -376.319+/-39.634 χ^2/NDF : 37690.6/53

In: -349.291+/-35.839 χ^2/NDF : 32531.4/47

Out: -347.928+/-35.837 χ^2/NDF : 22109.4/53

All: -348.609+/-25.341 χ^2/NDF : 54640.8/101

asym_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 193.619 ± 0.041 $\chi^2/\text{NDF}: 1406821.6/24$

Left Out: 199.547 ± 0.034 $\chi^2/\text{NDF}: 729356.3/24$

Right Out: 190.243 ± 0.039 $\chi^2/\text{NDF}: 2127644.8/28$

Left In: 185.171 ± 0.032 $\chi^2/\text{NDF}: 882752.2/22$

Left: 192.104 ± 0.023 $\chi^2/\text{NDF}: 1707122.0/47$

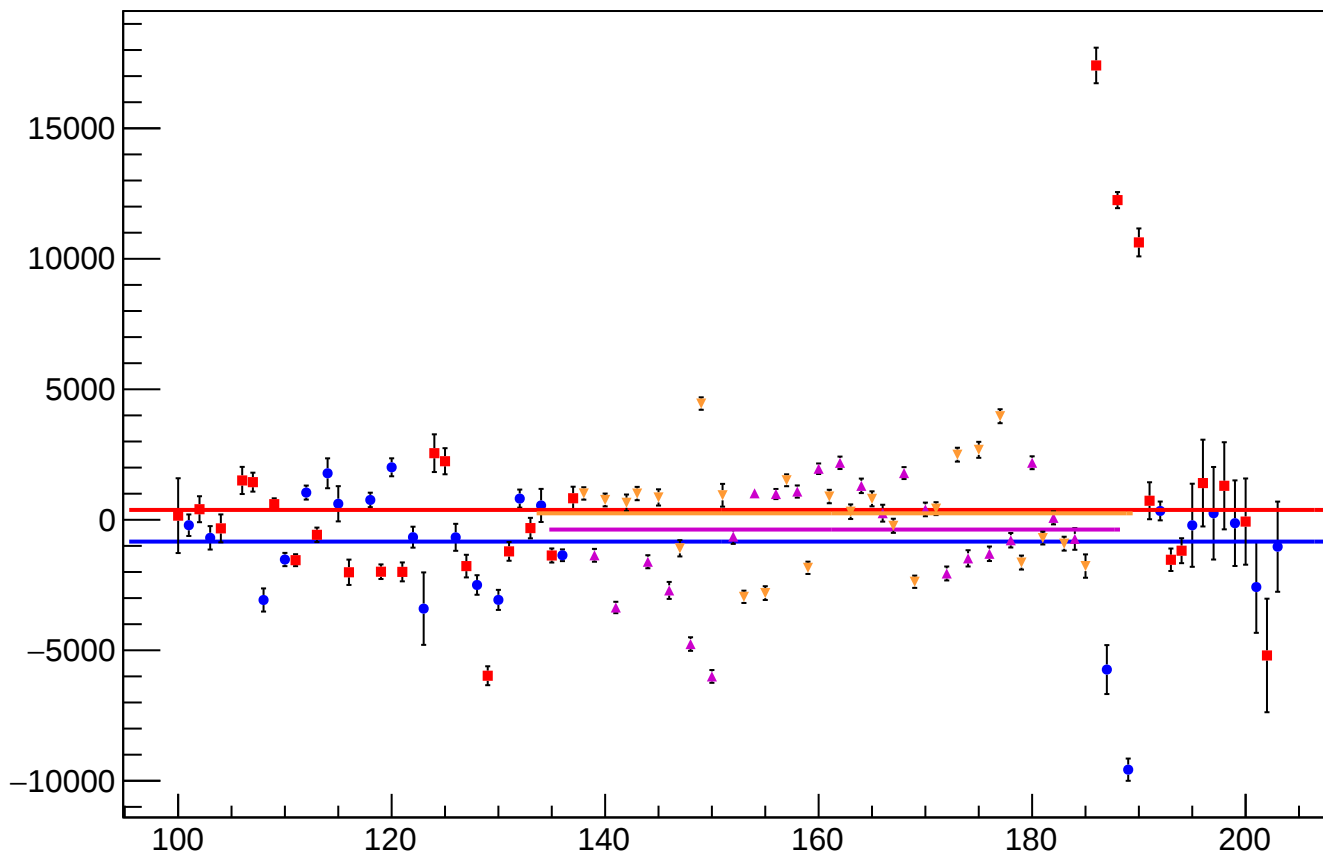
Right: 191.844 ± 0.028 $\chi^2/\text{NDF}: 3538085.7/53$

In: 188.447 ± 0.025 $\chi^2/\text{NDF}: 2315962.7/47$

Out: 195.548 ± 0.025 $\chi^2/\text{NDF}: 2890037.8/53$

All: 191.998 ± 0.018 $\chi^2/\text{NDF}: 5245258.6/103$

asym_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -835.352 ± 83.641 $\chi^2/\text{NDF}: 761.2/24$

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 $\chi^2/\text{NDF}: 3225.5/47$

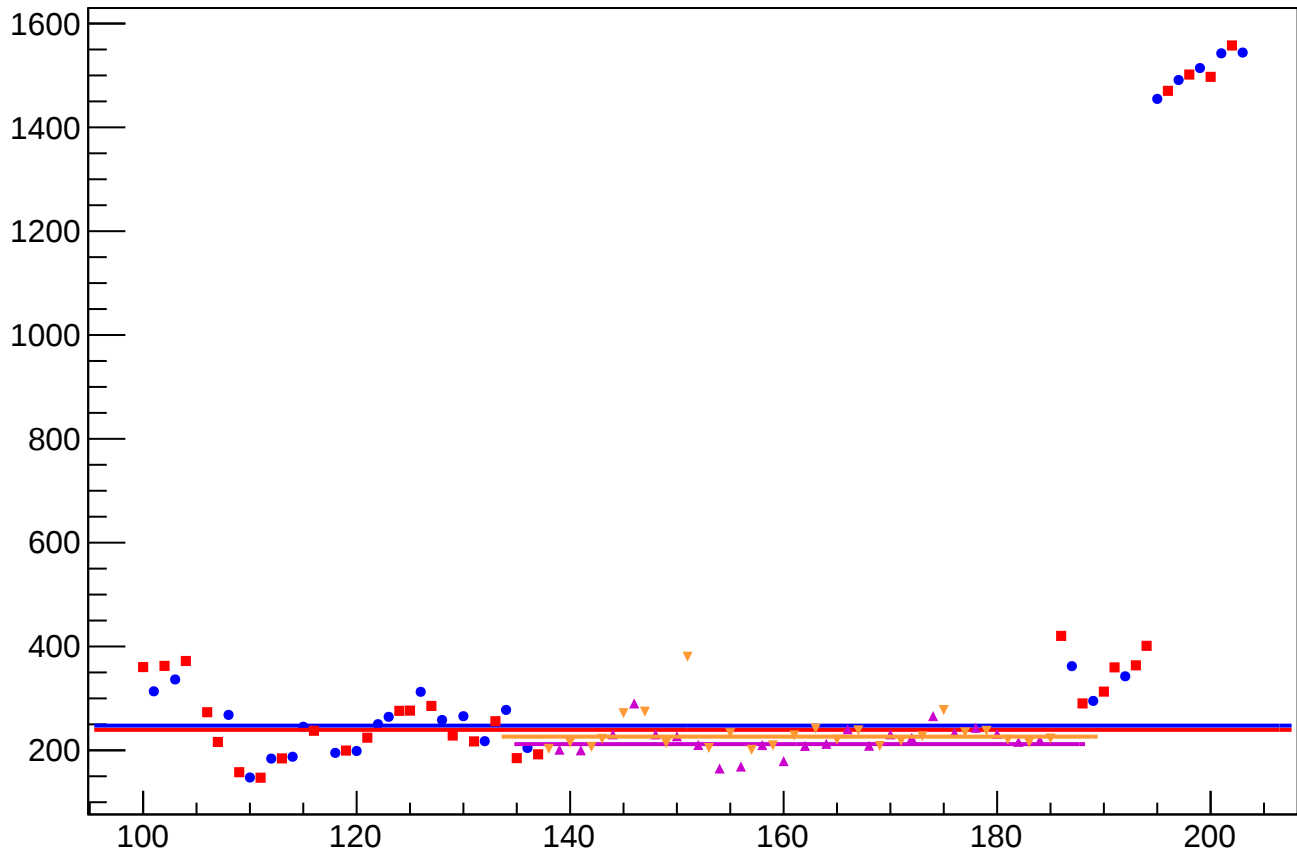
Right: -163.938 ± 55.897 $\chi^2/\text{NDF}: 4046.7/53$

In: -502.873 ± 44.191 $\chi^2/\text{NDF}: 2584.1/47$

Out: 291.667 ± 43.611 $\chi^2/\text{NDF}: 4526.2/53$

All: -100.357 ± 31.041 $\chi^2/\text{NDF}: 7274.1/101$

asym_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 247.535 $\pm$ 0.059 χ^2 /NDF: 6556667.9/24

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

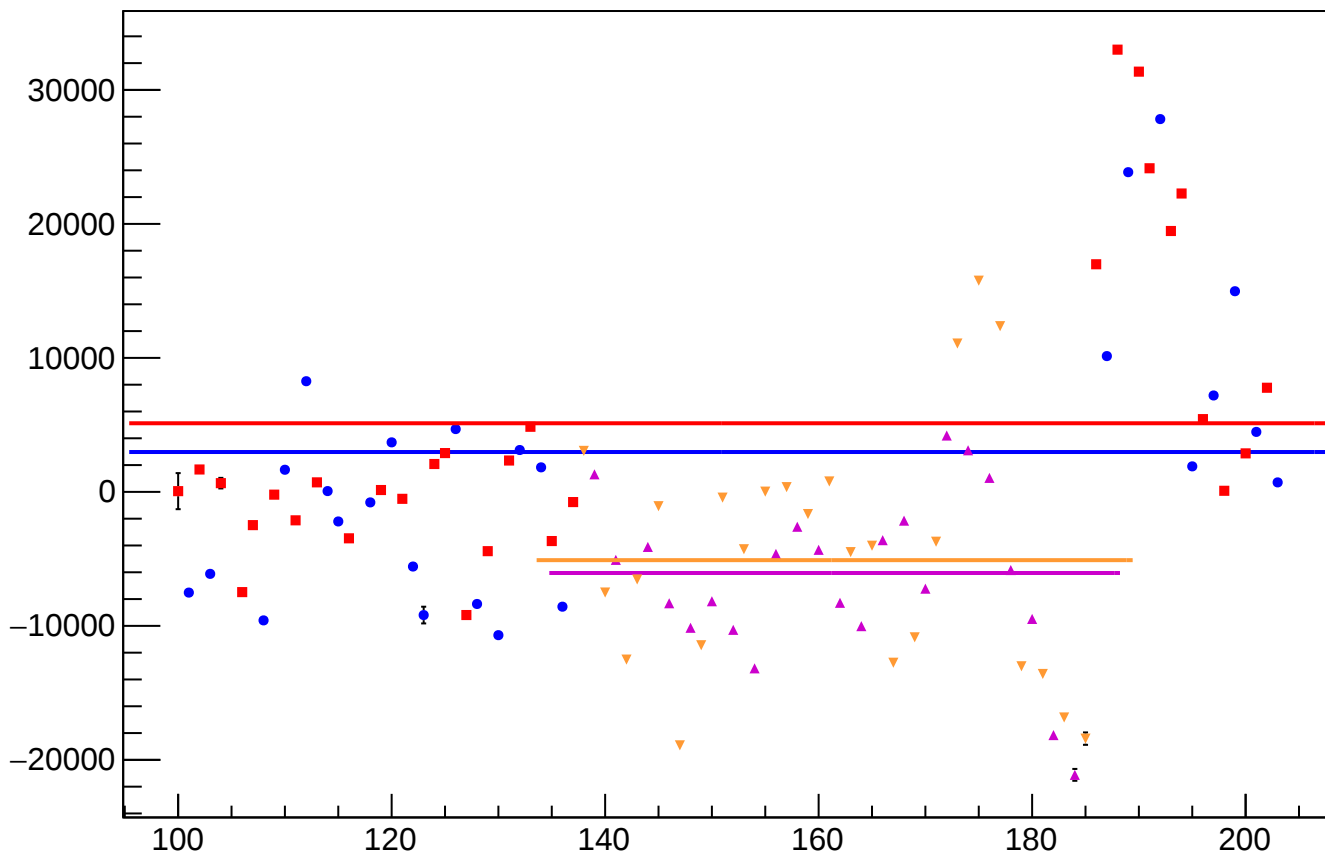
Right: 243.060 $\pm$ 0.040 χ^2 /NDF: 12534457.7/53

In: 221.898 $\pm$ 0.031 χ^2 /NDF: 7401672.5/47

Out: 230.744 $\pm$ 0.031 χ^2 /NDF: 6528972.0/53

All: 226.379 $\pm$ 0.022 χ^2 /NDF: 13971244.9/100

asym_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: 2975.453+/-37.694 χ^2/NDF : 73382.5/24

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

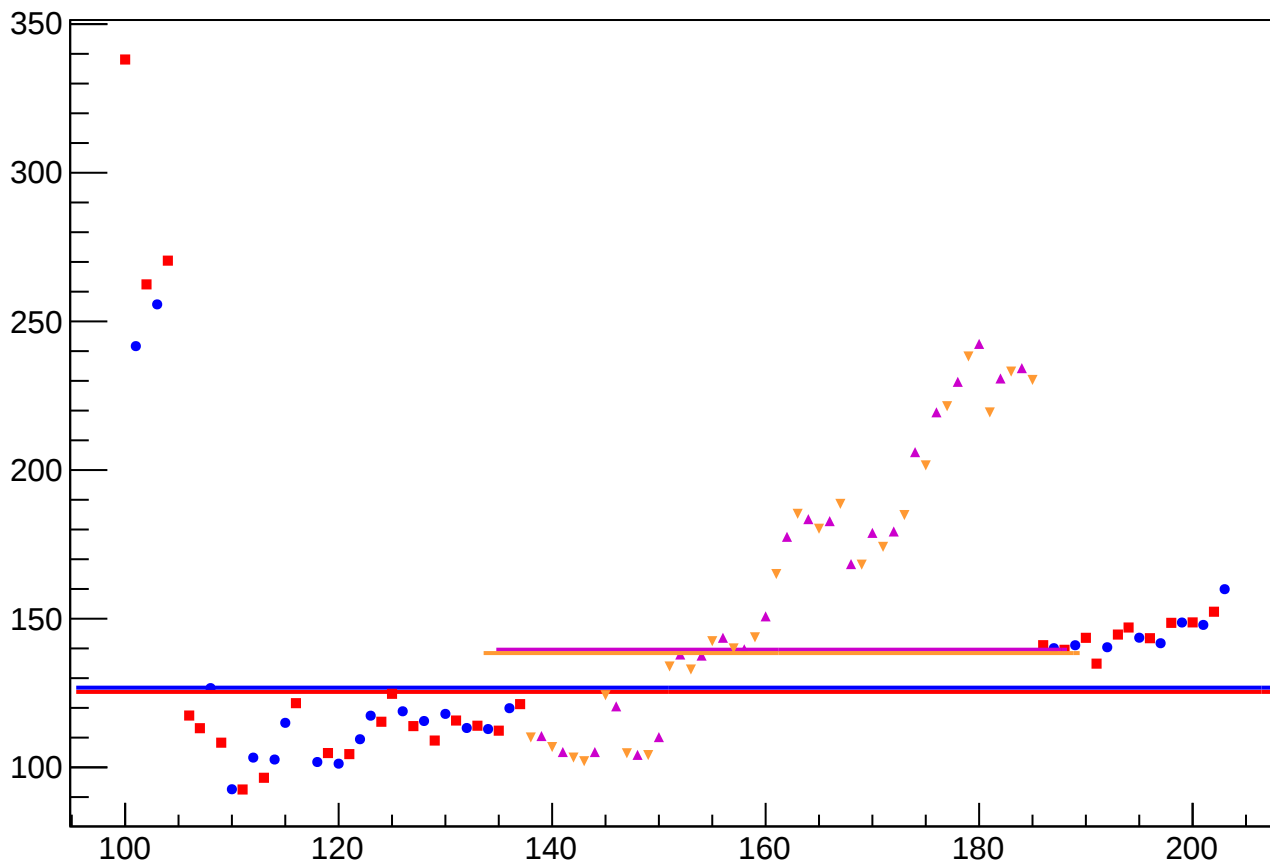
Right: 4115.800+/-25.805 χ^2/NDF : 176102.4/53

In: -1873.514+/-25.648 χ^2/NDF : 121785.9/47

Out: -237.658+/-24.410 χ^2/NDF : 199084.3/53

All: -1015.163+/-17.682 χ^2/NDF : 323004.7/1

asym_bpm1i02WS_rms vs Slug, Sign Corrected



Right In: 126.806 $\pm$ 0.027 χ^2 /NDF: 1057771.1/24

Left Out: 138.436 $\pm$ 0.024 χ^2 /NDF:2549435.8/24

Right Out: 125.375 $\pm$ 0.025 χ^2 /NDF: 1178338.6/28

Left In: 139.578 $\pm$ 0.025 χ^2 /NDF:2413658.9/22

Left: 138.985 $\pm$ 0.017 χ^2 /NDF: 4964199.7/47

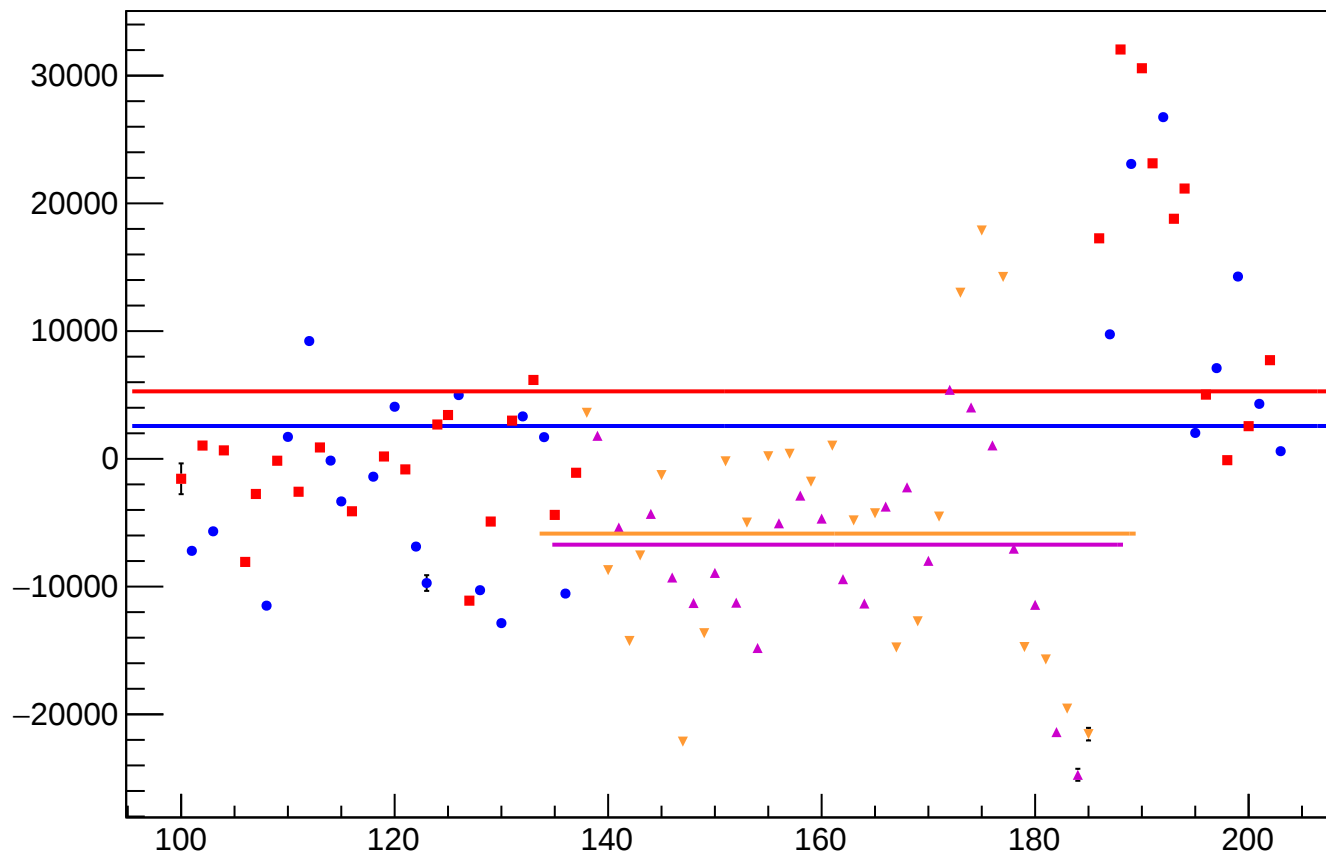
Right: 126.046 $\pm$ 0.018 χ^2 /NDF: 2237641.5/53

In: 133.665 $\pm$ 0.018 χ^2 /NDF:3594729.9/47

Out: 132.226 $\pm$ 0.017 χ^2 /NDF:3870566.7/53

All: 132.910 $\pm$ 0.013 χ^2 /NDF: 7468600.4/103

asym_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: 2572.343 $\pm$ 37.964

χ^2/NDF : 78372.2/24

Left: -6268.993 $\pm$ 25.850

χ^2/NDF : 84625.8/47

Left Out: -5852.544 $\pm$ 35.880

χ^2/NDF : 63411.4/24

Right: 4007.589 $\pm$ 26.044

χ^2/NDF : 182591.5/53

Right Out: 5283.529 $\pm$ 35.795

χ^2/NDF : 101519.4/28

In: -2158.094 $\pm$ 26.598

χ^2/NDF : 129799.9/47

Out: -271.389 $\pm$ 25.341

χ^2/NDF : 213209.7/53

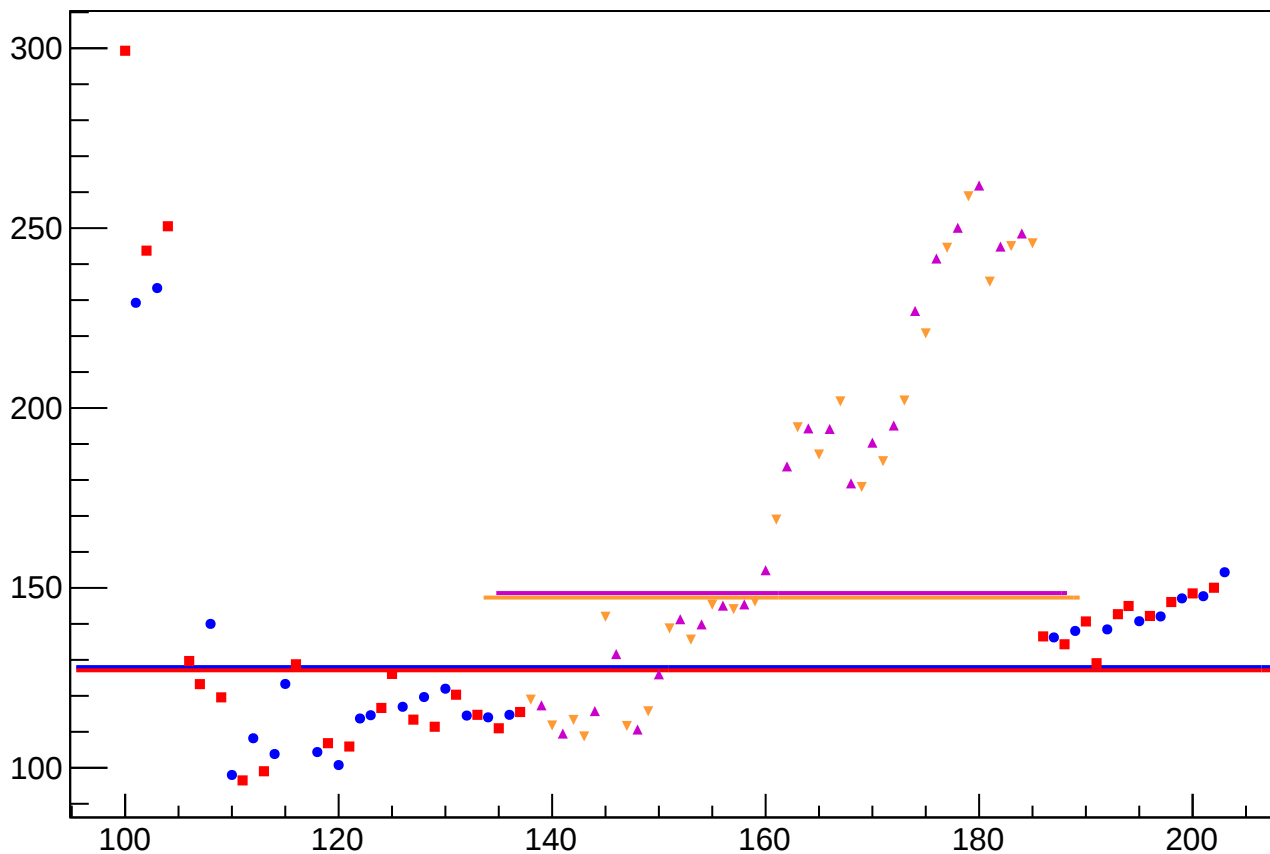
Left In: -6718.475 $\pm$ 37.276

χ^2/NDF : 20934.3/22

All: -1169.107 $\pm$ 18.347

χ^2/NDF : 345647.2/1

asym_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 127.986+/-0.027 χ^2/NDF : 866061.3/24

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

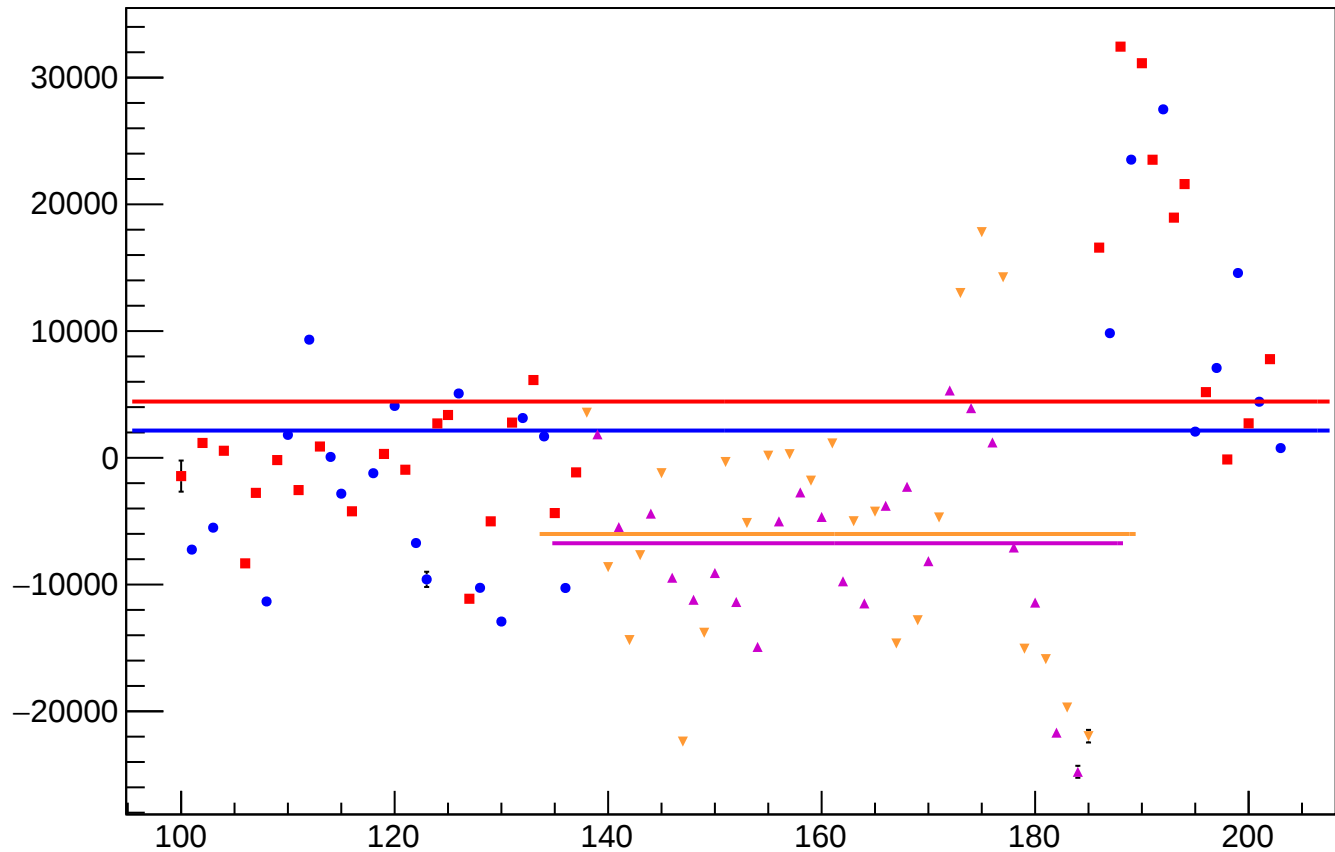
Right: 127.517+/-0.018 χ^2/NDF : 1813760.9/53

In: 138.466+/-0.019 χ^2/NDF : 3558548.9/47

Out: 137.185+/-0.018 χ^2/NDF : 3777048.1/53

All: 137.794+/-0.013 χ^2/NDF : 7338028.8/103

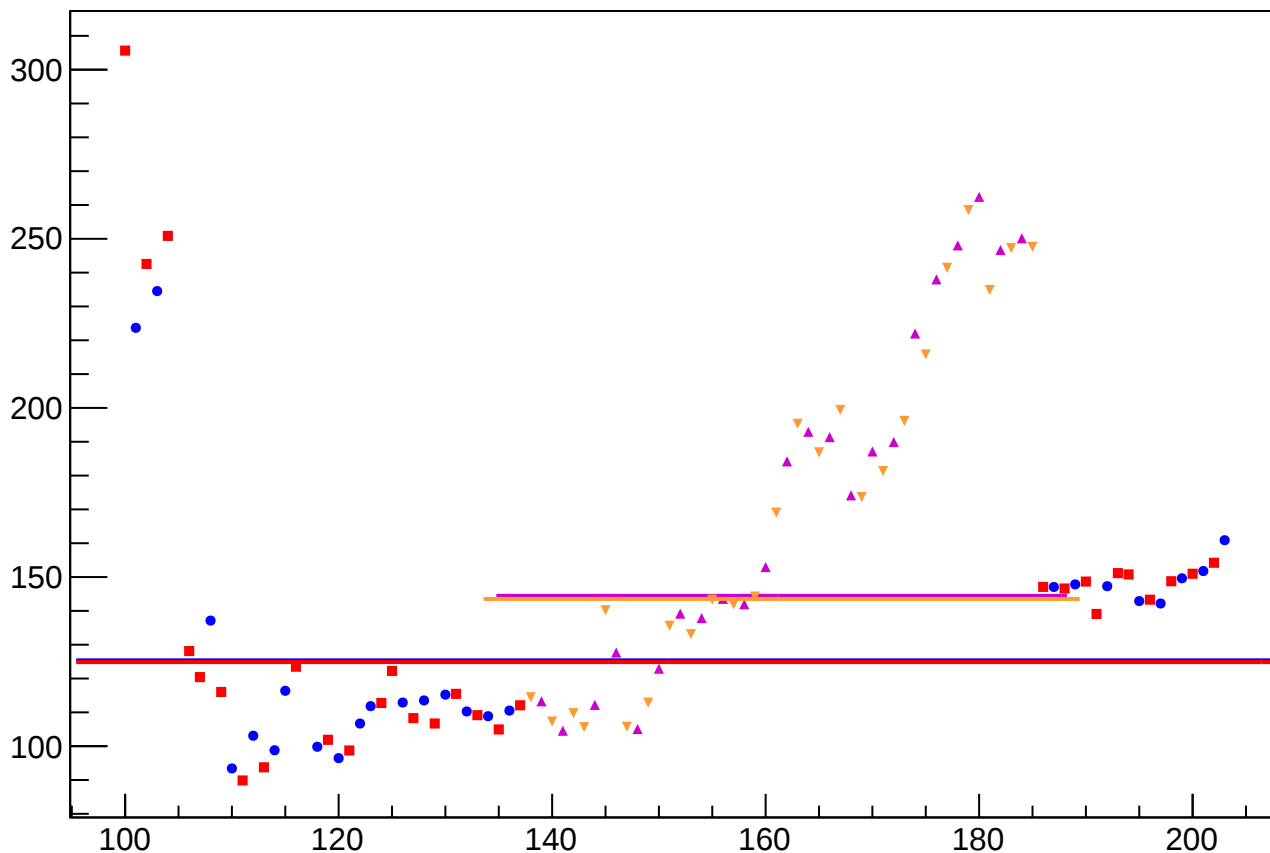
asym_bpm2i02WS_mean vs Slug, Sign Corrected



Right In: 2151.652 $\pm$ 37.449 χ^2/NDF : 77702.9/24
 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: 3358.877 $\pm$ 25.743 χ^2/NDF : 175786.6/53
 In: -2423.312 $\pm$ 26.094 χ^2/NDF : 128782.9/47
 Out: -838.681 $\pm$ 24.935 χ^2/NDF : 207874.2/53
 All: -1595.012 $\pm$ 18.027 χ^2/NDF : 338584.8/1

asym_bpm2i02WS_rms vs Slug, Sign Corrected



Right In: 125.375+/-0.026 χ^2/NDF : 1107107.6/24

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

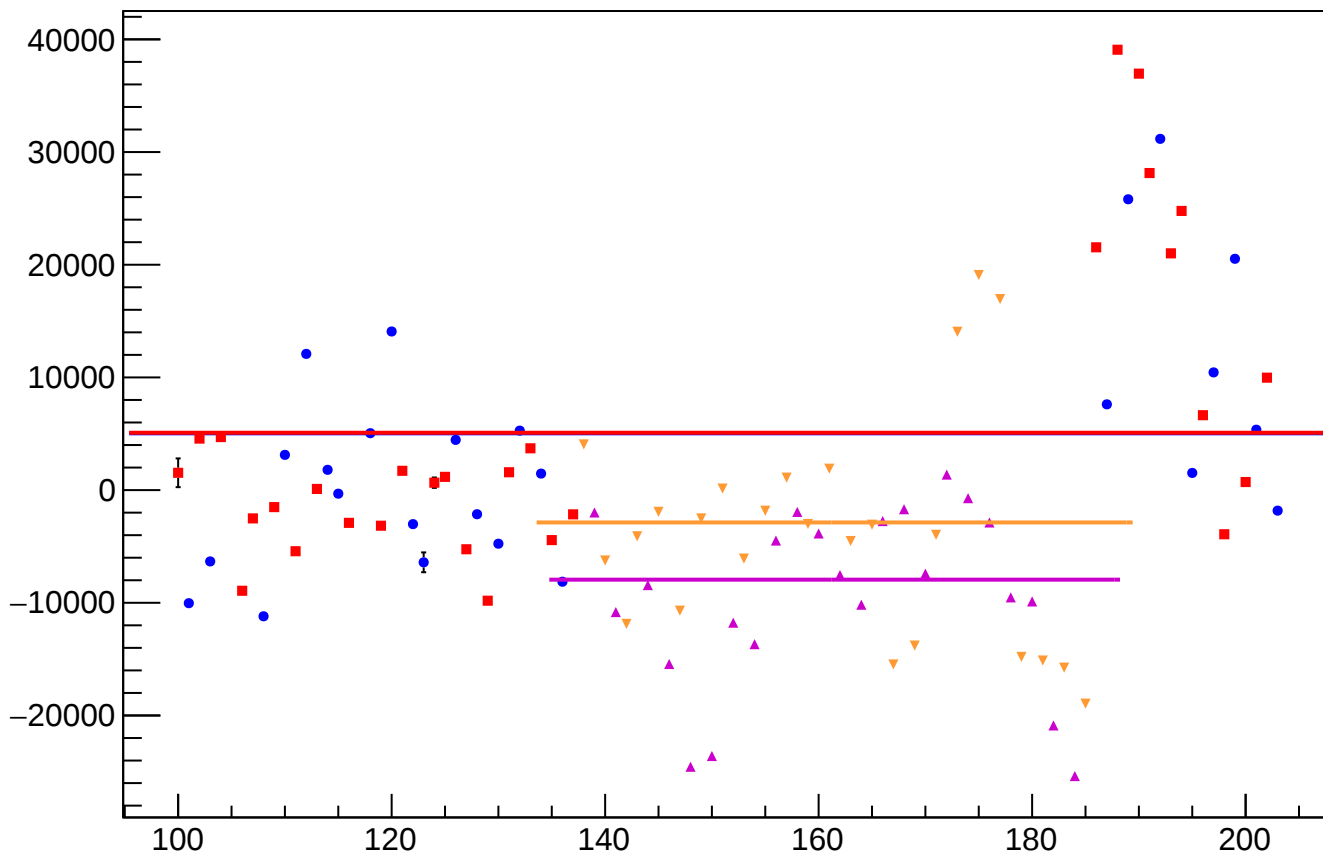
Right: 125.105+/-0.018 χ^2/NDF : 2381412.4/53

In: 135.184+/-0.018 χ^2/NDF : 3960701.1/47

Out: 134.294+/-0.018 χ^2/NDF : 4259094.9/53

All: 134.718+/-0.013 χ^2/NDF : 8221012.3/103

asym_bpm0i01WS_mean vs Slug, Sign Corrected



Right In: 5040.865 $\pm$ 45.335 χ^2 /NDF: 59714.6/24

Left Out: -2870.473 $\pm$ 39.482 χ^2 /NDF:46420.3/24

Right Out: 5088.919 $\pm$ 42.892 χ^2 /NDF: 95214.4/28

Left In: -7947.160 $\pm$ 41.726 χ^2 /NDF:23874.5/22

Left: -5268.670 $\pm$ 28.678 χ^2 /NDF: 78105.0/47

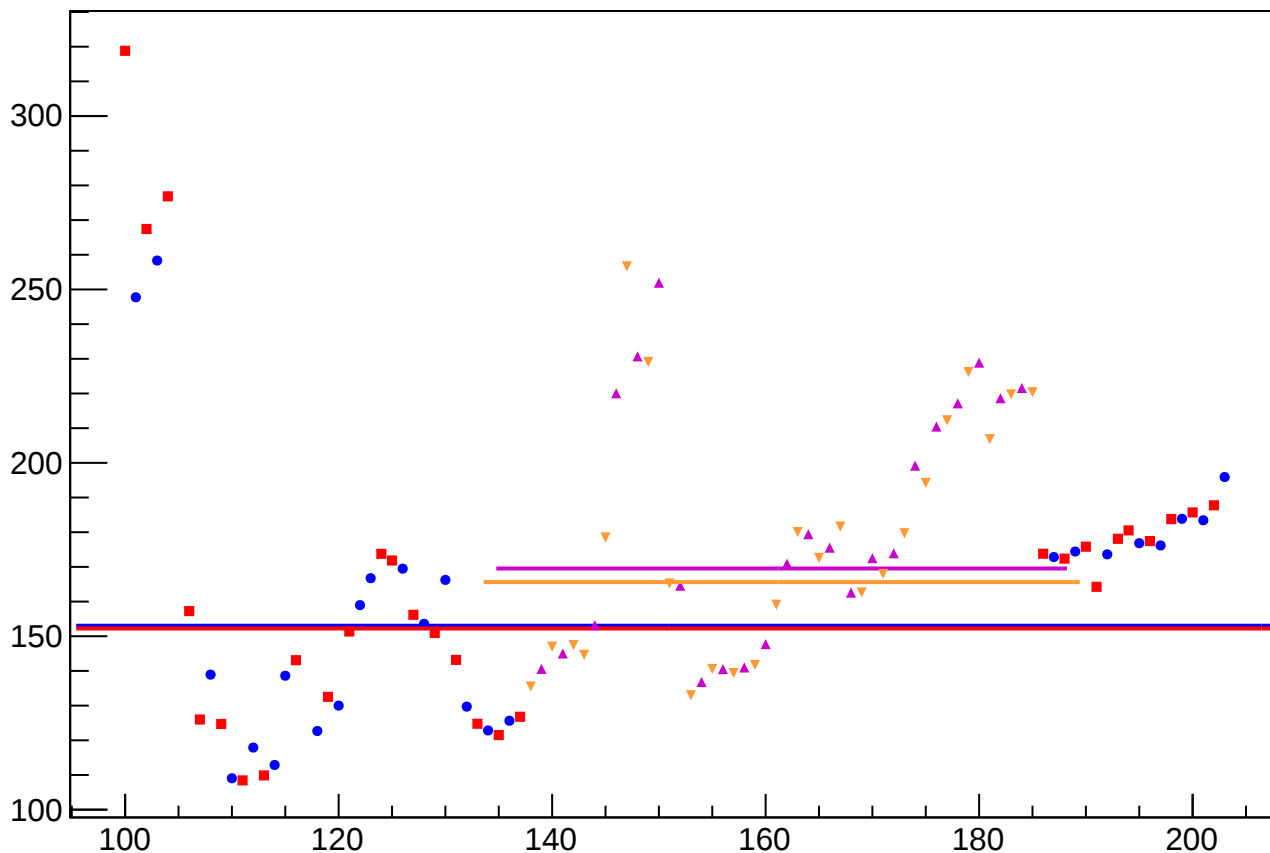
Right: 5066.222 $\pm$ 31.157 χ^2 /NDF: 154929.6/53

In: -1990.732 $\pm$ 30.701 χ^2 /NDF:128023.7/47

Out: 780.278 $\pm$ 29.049 χ^2 /NDF:160275.3/53

All: -528.650 $\pm$ 21.101 χ^2 /NDF: 292597.3/100

asym_bpm0i01WS_rms vs Slug, Sign Corrected



Right In: 153.032+/-0.032 χ^2/NDF : 1066720.0/24

Left Out: 165.616+/-0.028 χ^2/NDF :1144779.3/24

Right Out: 152.239+/-0.030 χ^2/NDF : 1206653.9/28

Left In: 169.542+/-0.030 χ^2/NDF :1159241.9/22

Left: 167.471+/-0.020 χ^2/NDF : 2313359.6/47

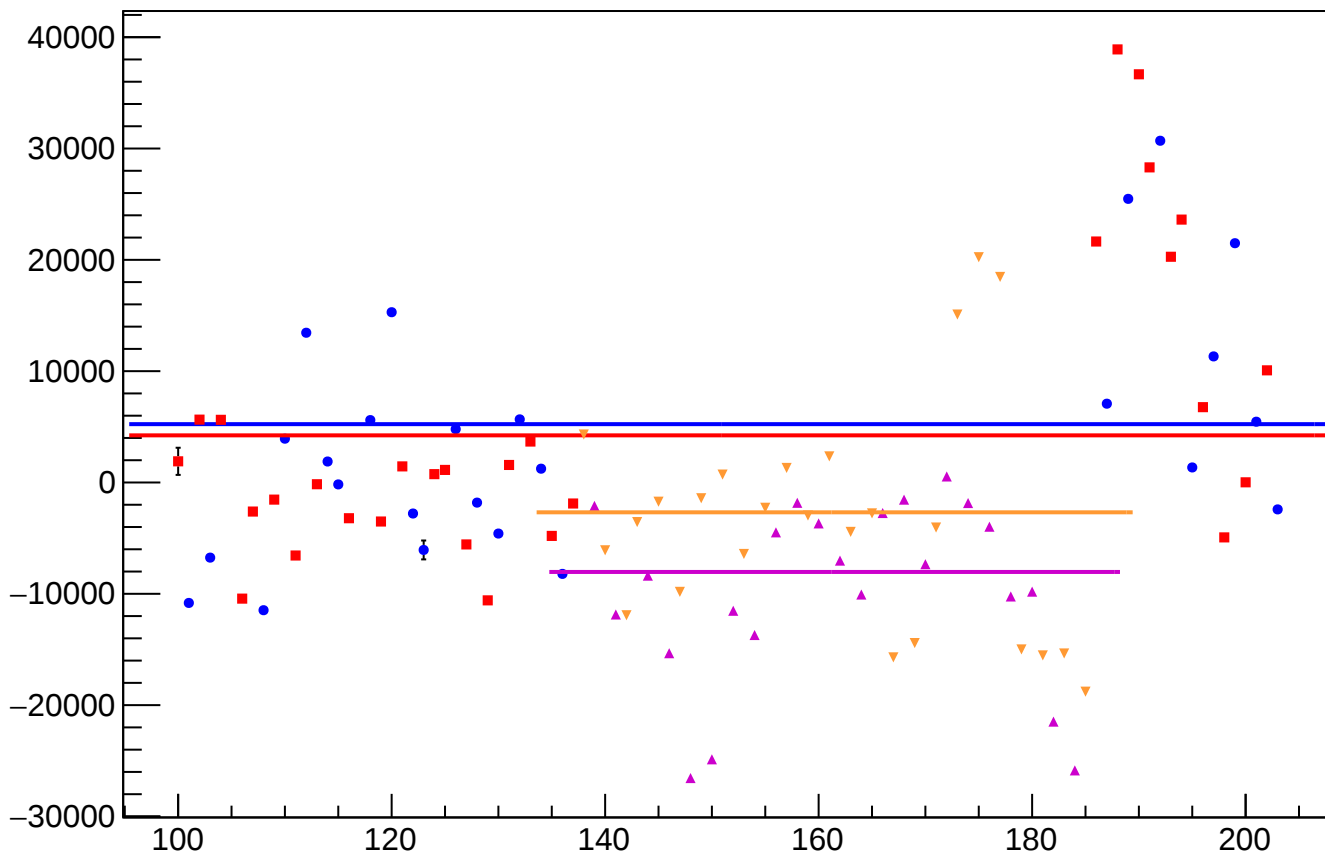
Right: 152.614+/-0.022 χ^2/NDF : 2273696.4/53

In: 161.970+/-0.022 χ^2/NDF :2369557.4/47

Out: 159.481+/-0.021 χ^2/NDF :2456737.3/53

All: 160.657+/-0.015 χ^2/NDF : 4833233.0/103

asym_bpm0i01aWS_mean vs Slug, Sign Corrected



Right In: 5240.332+/-38.184 χ^2/NDF : 84100.3/24

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

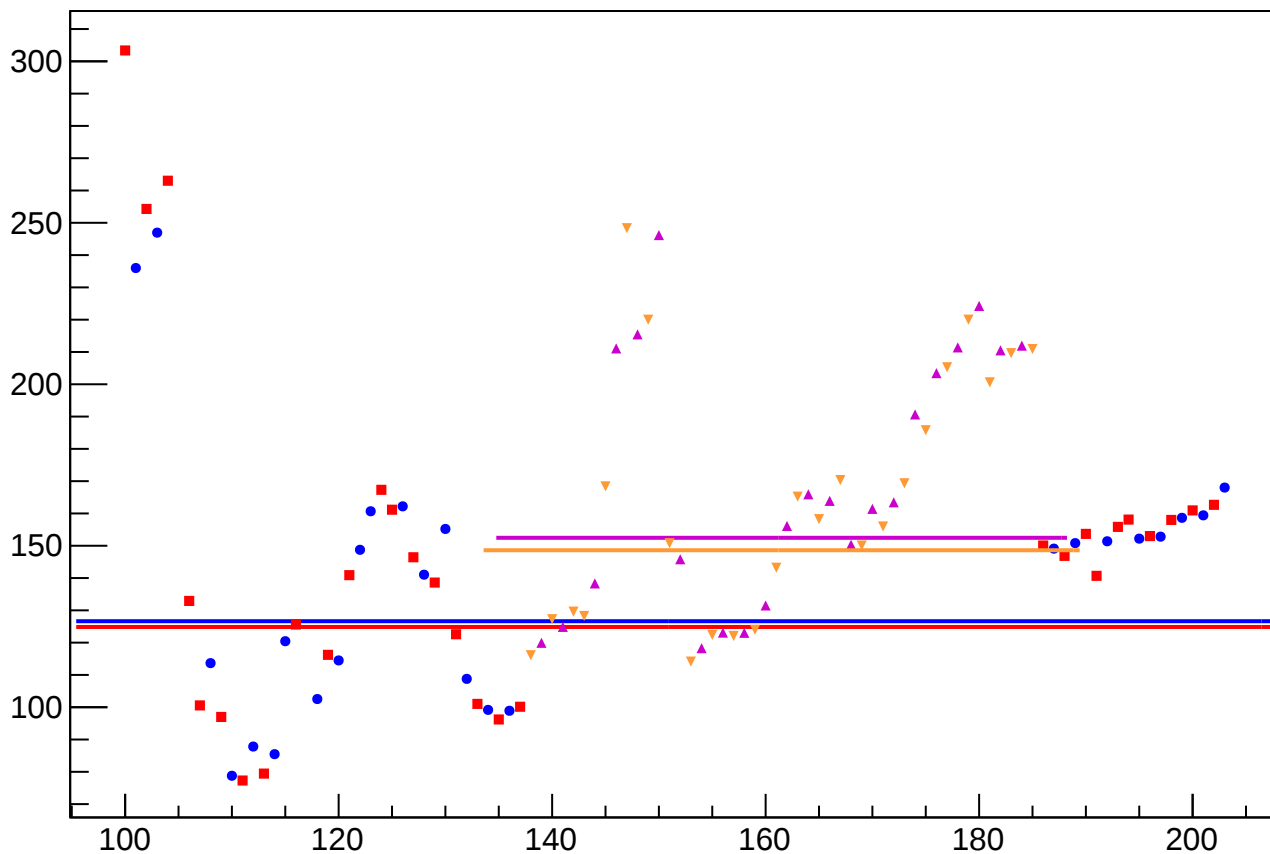
Right: 4705.840+/-26.147 χ^2/NDF : 216782.0/53

In: -1443.532+/-26.908 χ^2/NDF : 174227.3/47

Out: 765.839+/-25.329 χ^2/NDF : 207760.0/53

All: -272.142+/-18.443 χ^2/NDF : 385561.7/10

asym_bpm0i01aWS_rms vs Slug, Sign Corrected



Right In: 126.632 ± 0.027 χ^2/NDF : 1714617.4/24

Left Out: 148.611 ± 0.025 χ^2/NDF : 1685424.1/24

Right Out: 124.850 ± 0.025 χ^2/NDF : 1995515.0/28

Left In: 152.463 ± 0.027 χ^2/NDF : 1691517.7/22

Left: 150.424 ± 0.018 χ^2/NDF : 3387867.0/47

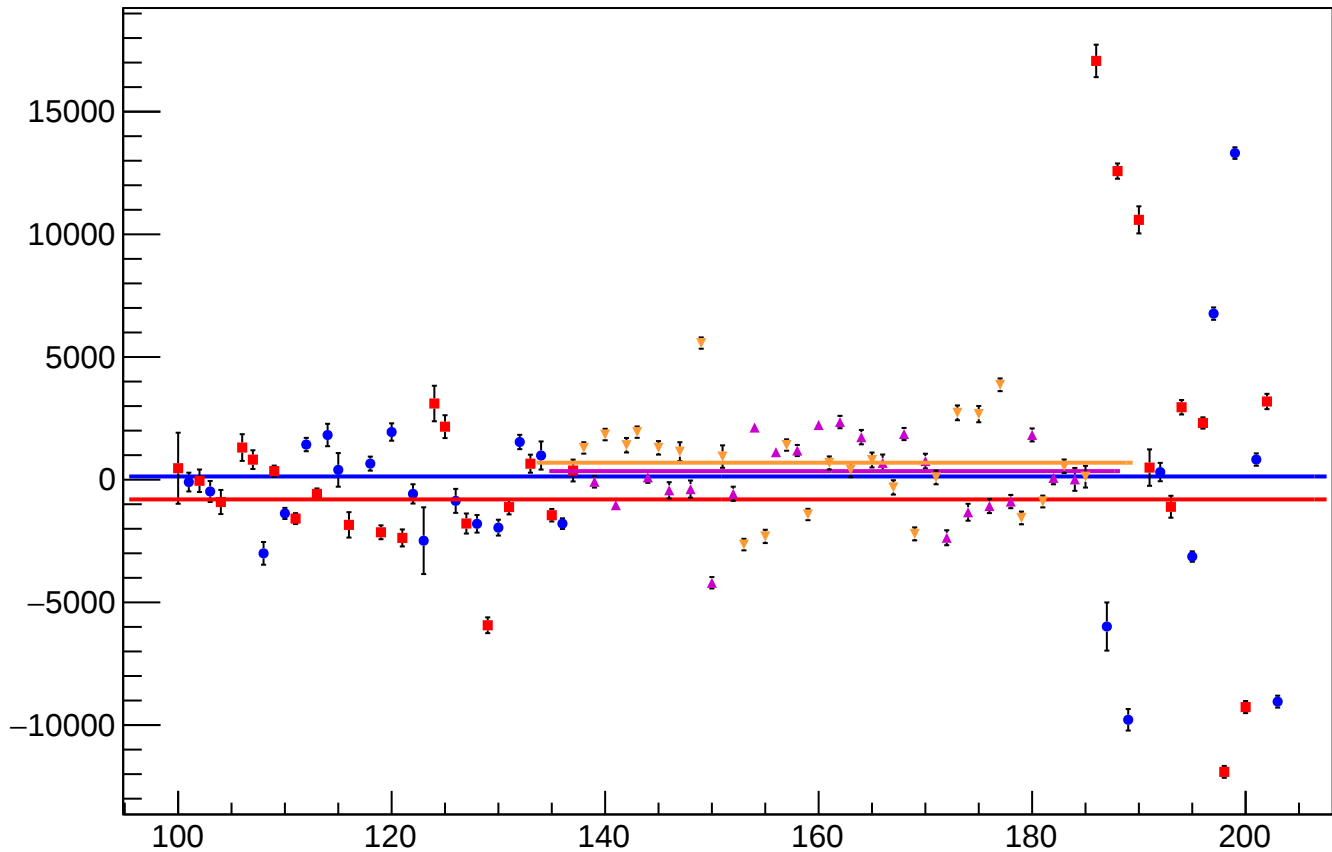
Right: 125.686 ± 0.018 χ^2/NDF : 3712448.3/53

In: 139.636 ± 0.019 χ^2/NDF : 3866890.8/47

Out: 136.768 ± 0.018 χ^2/NDF : 4120939.2/53

All: 138.116 ± 0.013 χ^2/NDF : 7999874.1/103

asym_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: 131.660 $\pm$ 64.080 χ^2 /NDF: 6387.6/24

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

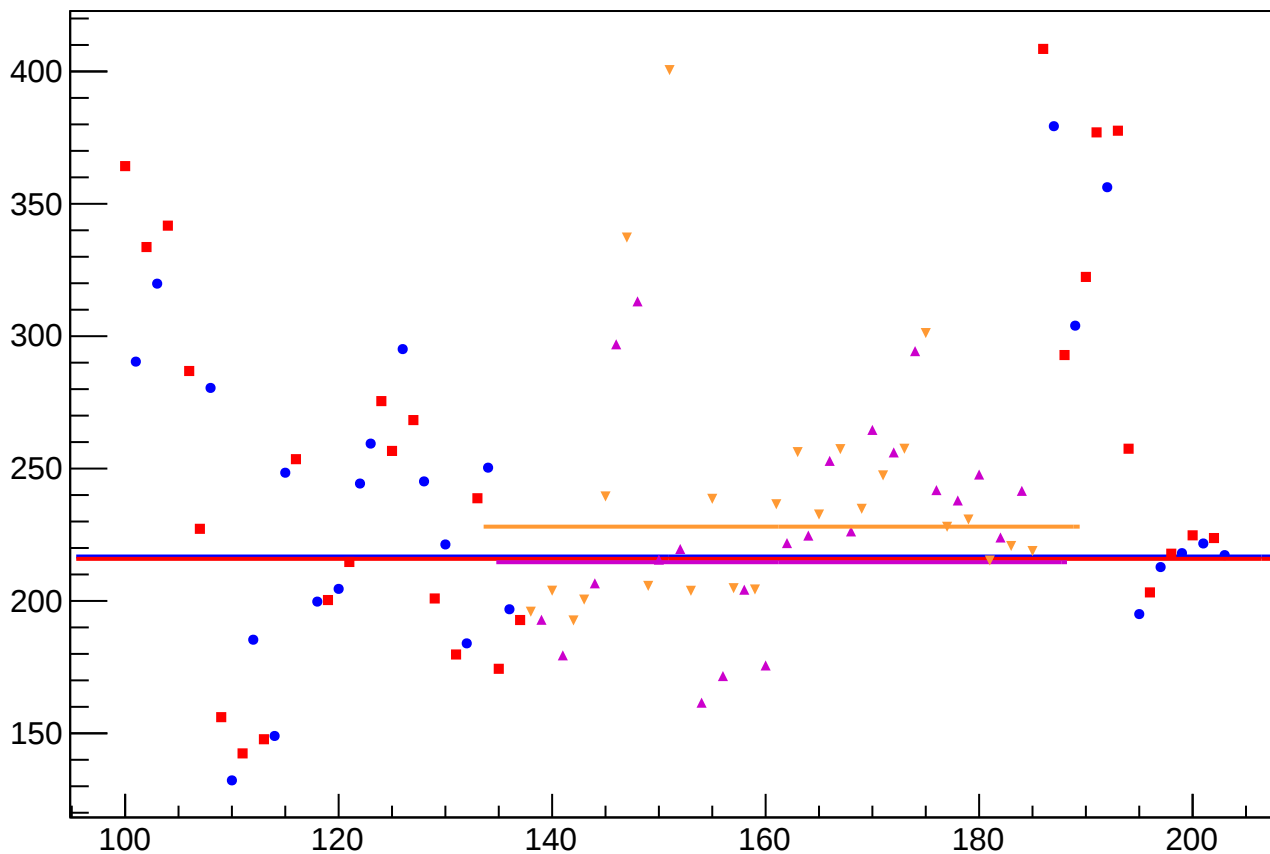
Right: -353.552 $\pm$ 44.444 χ^2 /NDF: 13779.7/53

In: 260.899 $\pm$ 40.884 χ^2 /NDF:7375.4/47

Out: 39.801 $\pm$ 40.762 χ^2 /NDF:9035.2/53

All: 150.021 $\pm$ 28.866 χ^2 /NDF: 16425.2/101

asym_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 216.780 $\pm$ 0.045 χ^2 /NDF: 1149776.3/24

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

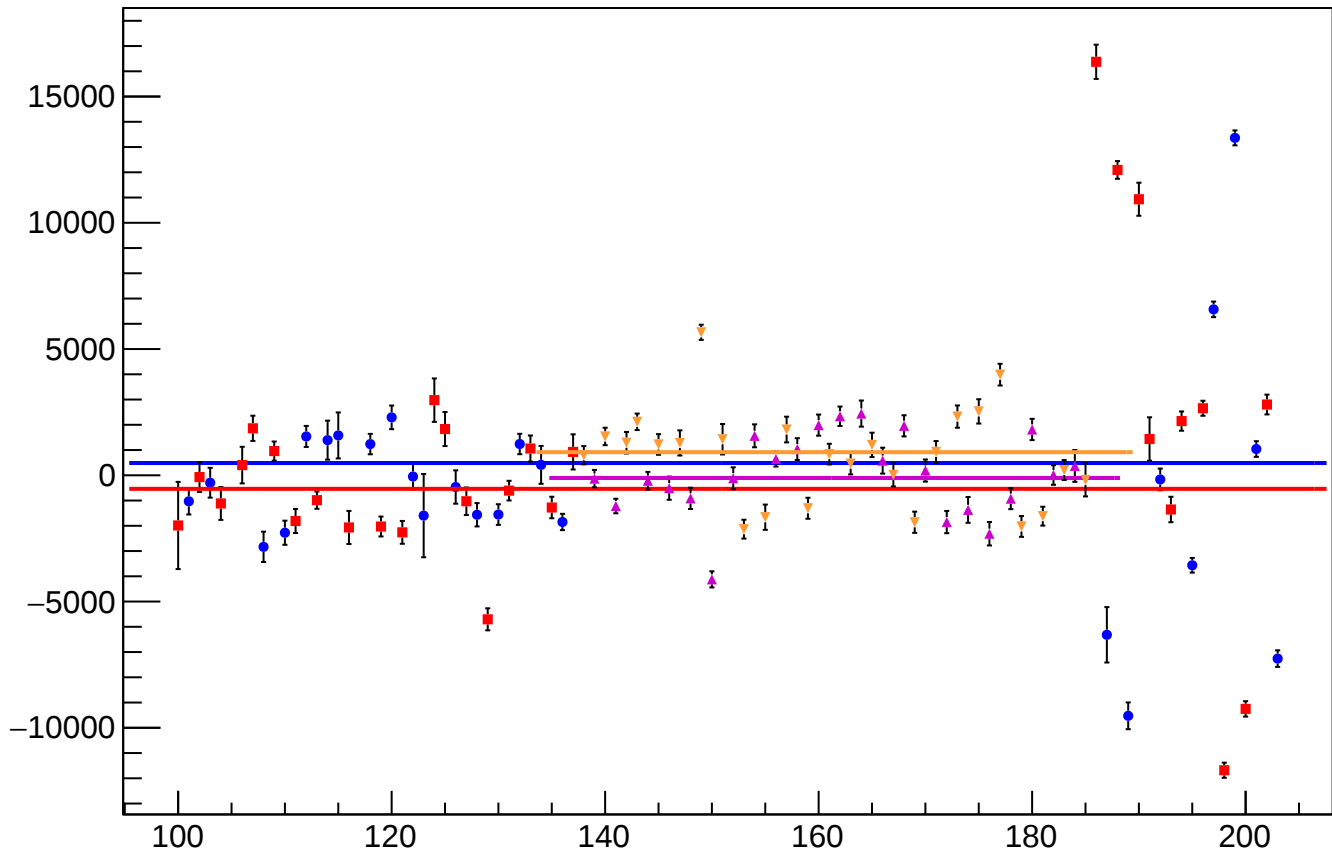
Right: 216.324 $\pm$ 0.031 χ^2 /NDF: 2968878.3/53

In: 215.503 $\pm$ 0.029 χ^2 /NDF: 2176797.8/47

Out: 222.753 $\pm$ 0.029 χ^2 /NDF: 2689019.2/53

All: 219.139 $\pm$ 0.020 χ^2 /NDF: 4897356.8/102

asym_bpm0l02WS_mean vs Slug, Sign Corrected



Right In: 486.133+/-87.408 χ^2/NDF : 3640.6/24

Left Out: 915.968+/-83.398 χ^2/NDF : 618.3/24

Right Out: -536.487+/-84.606 χ^2/NDF : 4945.4/28

Left In: -106.116+/-84.393 χ^2/NDF : 390.3/22

Left: 410.985+/-59.320 χ^2/NDF : 1082.8/47

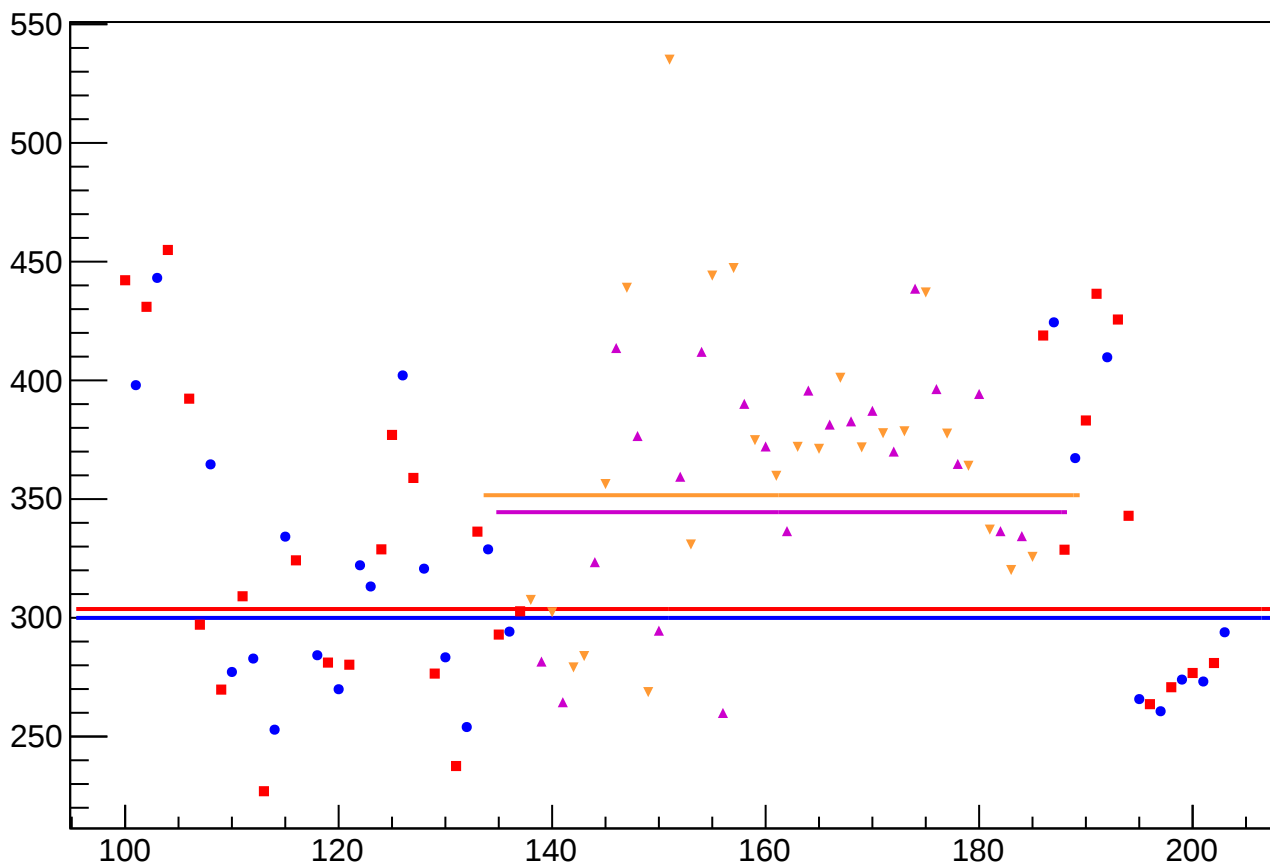
Right: -41.829+/-60.792 χ^2/NDF : 8656.6/53

In: 179.618+/-60.713 χ^2/NDF : 4054.6/47

Out: 200.184+/-59.394 χ^2/NDF : 5713.1/53

All: 190.127+/-42.456 χ^2/NDF : 9767.8/101

asym_bpm0l02WS_rms vs Slug, Sign Corrected



Right In: 299.956 ± 0.062 χ^2/NDF : 608220.1/24

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

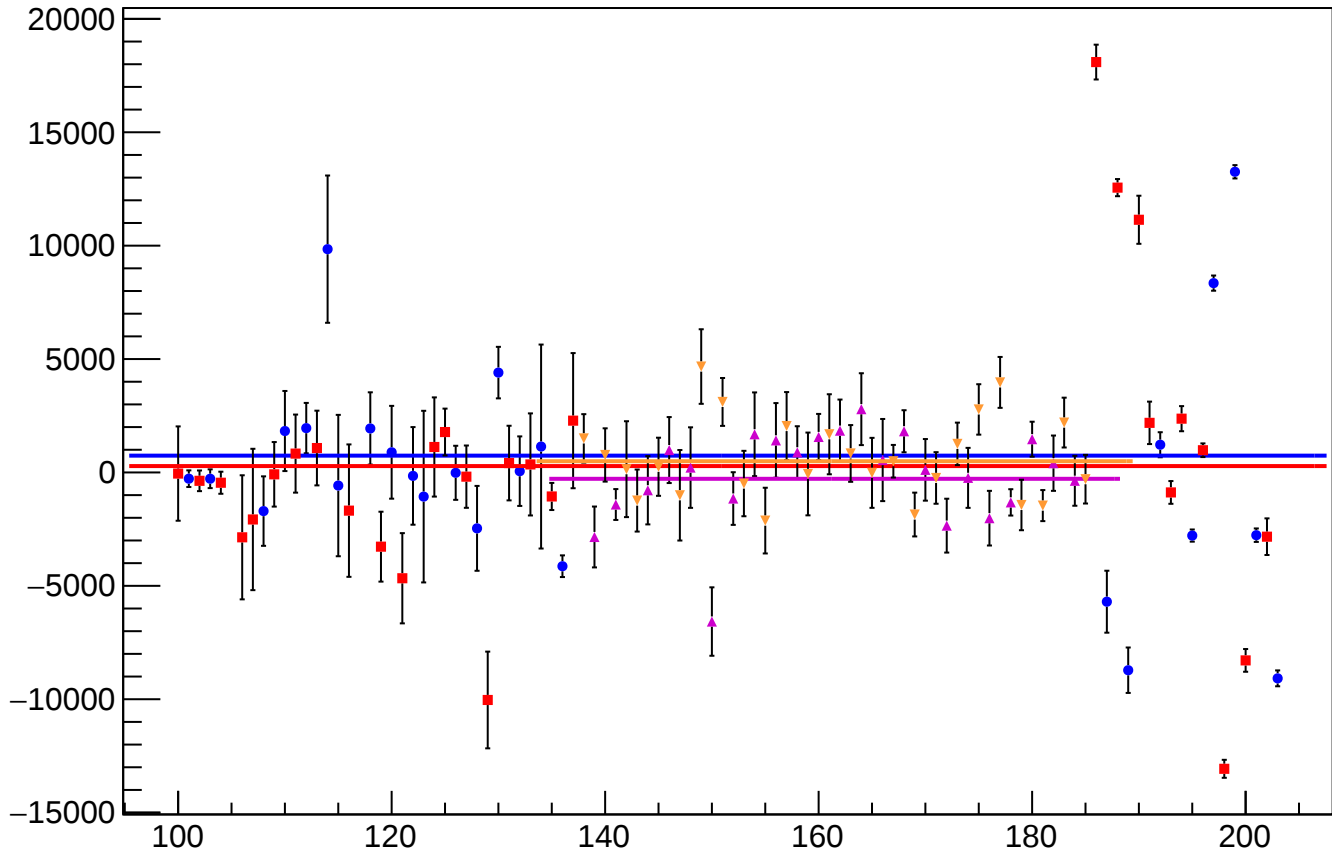
Right: 301.891 ± 0.043 χ^2/NDF : 1472270.7/53

In: 323.005 ± 0.043 χ^2/NDF : 1645805.5/47

Out: 328.013 ± 0.042 χ^2/NDF : 2095541.7/53

All: 325.564 ± 0.030 χ^2/NDF : 3748300.2/103

asym_bpm0l03WS_mean vs Slug, Sign Corrected



Right In: 740.887+/-110.946 χ^2/NDF : 3683.5/24

Left Out: 495.014+/-231.058 χ^2/NDF : 56.2/24

Right Out: 280.829+/-131.621 χ^2/NDF : 3217.8/28

Left In: -280.692+/-232.048 χ^2/NDF : 57.2/22

Left: 108.818+/-163.732 χ^2/NDF : 119.1/47

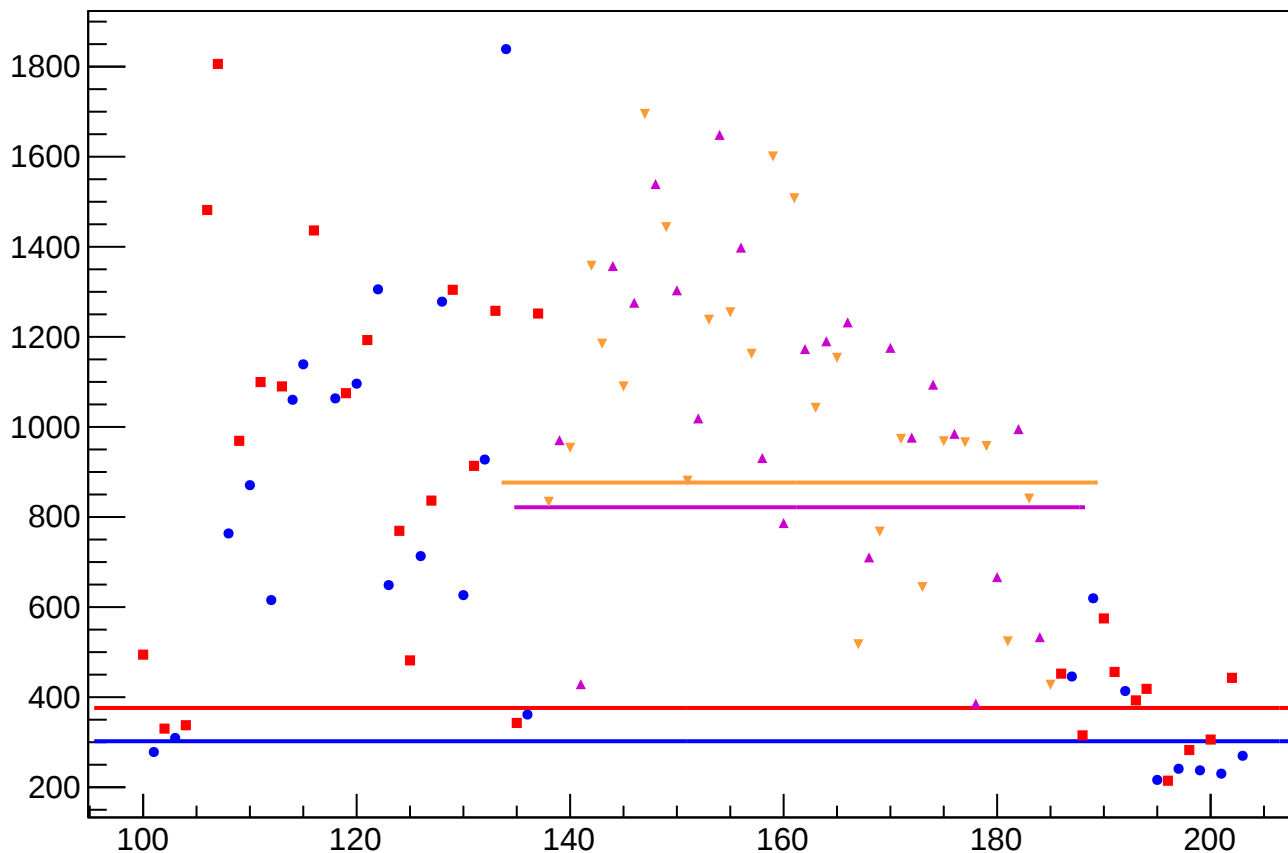
Right: 549.787+/-84.830 χ^2/NDF : 6908.4/53

In: 550.809+/-100.094 χ^2/NDF : 3756.4/47

Out: 333.303+/-114.367 χ^2/NDF : 3274.7/53

All: 456.468+/-75.321 χ^2/NDF : 7033.2/101

asym_bpm0l03WS_rms vs Slug, Sign Corrected



Right In: 302.196 ± 0.078 χ^2/NDF : 4367778.6/24

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

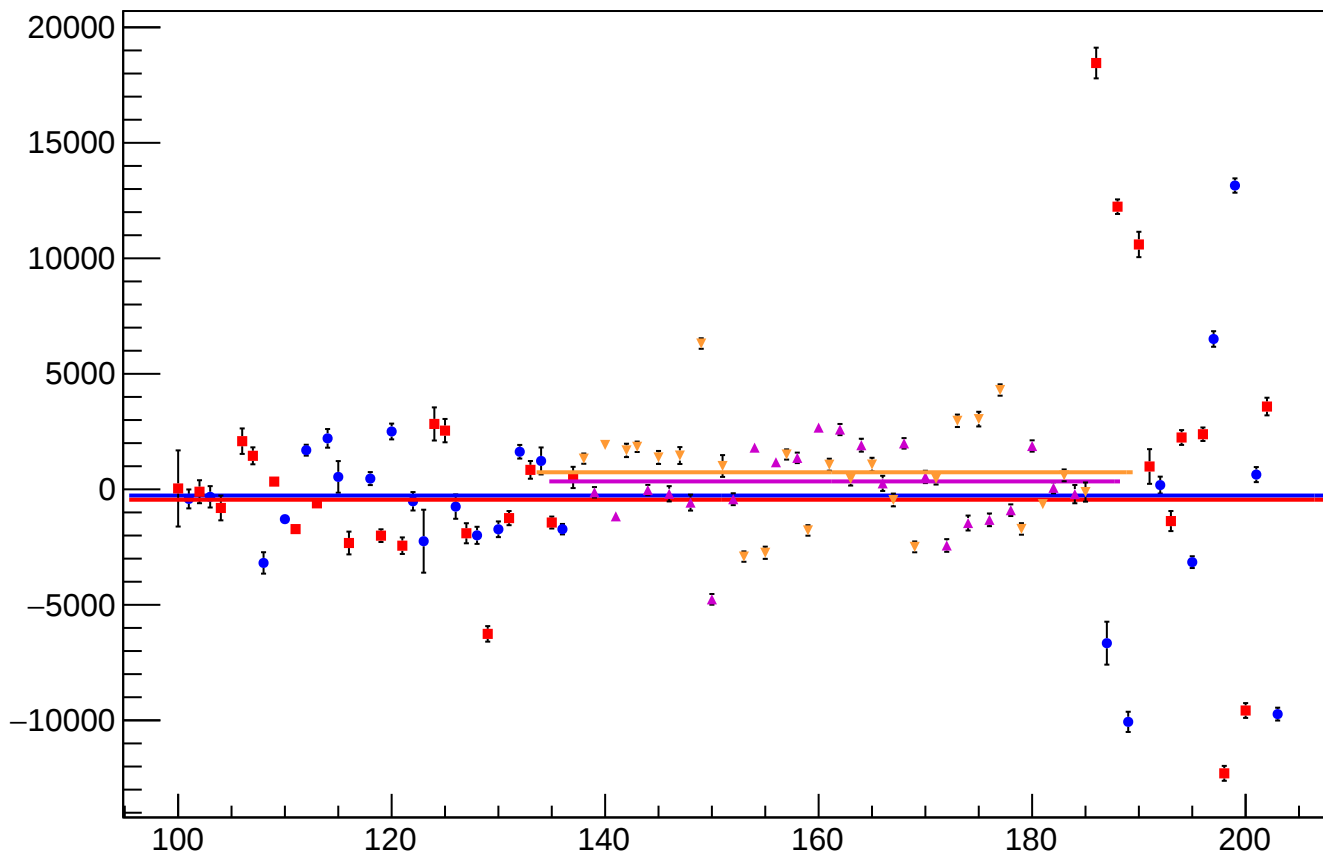
Right: 332.879 ± 0.060 χ^2/NDF : 9909318.6/53

In: 398.848 ± 0.071 χ^2/NDF : 16968690.4/47

Out: 498.682 ± 0.081 χ^2/NDF : 15692991.4/53

All: 442.150 ± 0.053 χ^2/NDF : 33524664.8/10

asym_bpm0l04WS_mean vs Slug, Sign Corrected



Right In: -269.096 $\pm$ 67.814 χ^2/NDF : 4490.4/24

Left Out: 738.847 $\pm$ 51.649 χ^2/NDF :1935.2/24

Right Out: -450.306 $\pm$ 63.553 χ^2/NDF : 5856.7/28

Left In: 342.465 $\pm$ 50.044 χ^2/NDF :1254.9/22

Left: 534.403 $\pm$ 35.941 χ^2/NDF : 3220.5/47

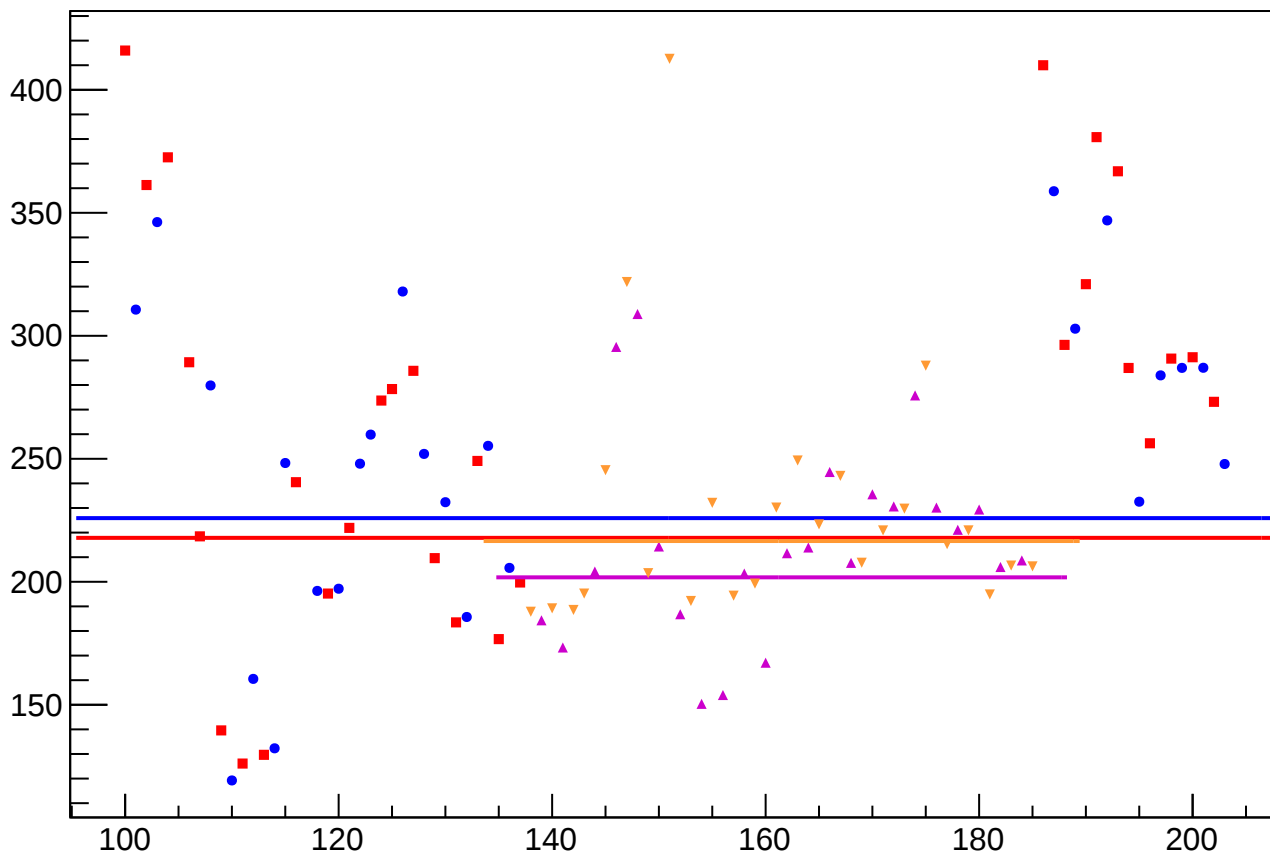
Right: -365.573 $\pm$ 46.372 χ^2/NDF : 10350.8/53

In: 126.841 $\pm$ 40.267 χ^2/NDF :5797.9/47

Out: 265.849 $\pm$ 40.082 χ^2/NDF :8002.7/53

All: 196.665 $\pm$ 28.407 χ^2/NDF : 13806.6/101

asym_bpm0l04WS_rms vs Slug, Sign Corrected



Right In: 225.884 ± 0.048 $\chi^2/\text{NDF}: 1769169.1/24$

Left Out: 216.574 ± 0.037 $\chi^2/\text{NDF}: 886214.1/24$

Right Out: 217.862 ± 0.045 $\chi^2/\text{NDF}: 2803322.9/28$

Left In: 201.805 ± 0.035 $\chi^2/\text{NDF}: 1087243.4/22$

Left: 208.957 ± 0.025 $\chi^2/\text{NDF}: 2057801.5/47$

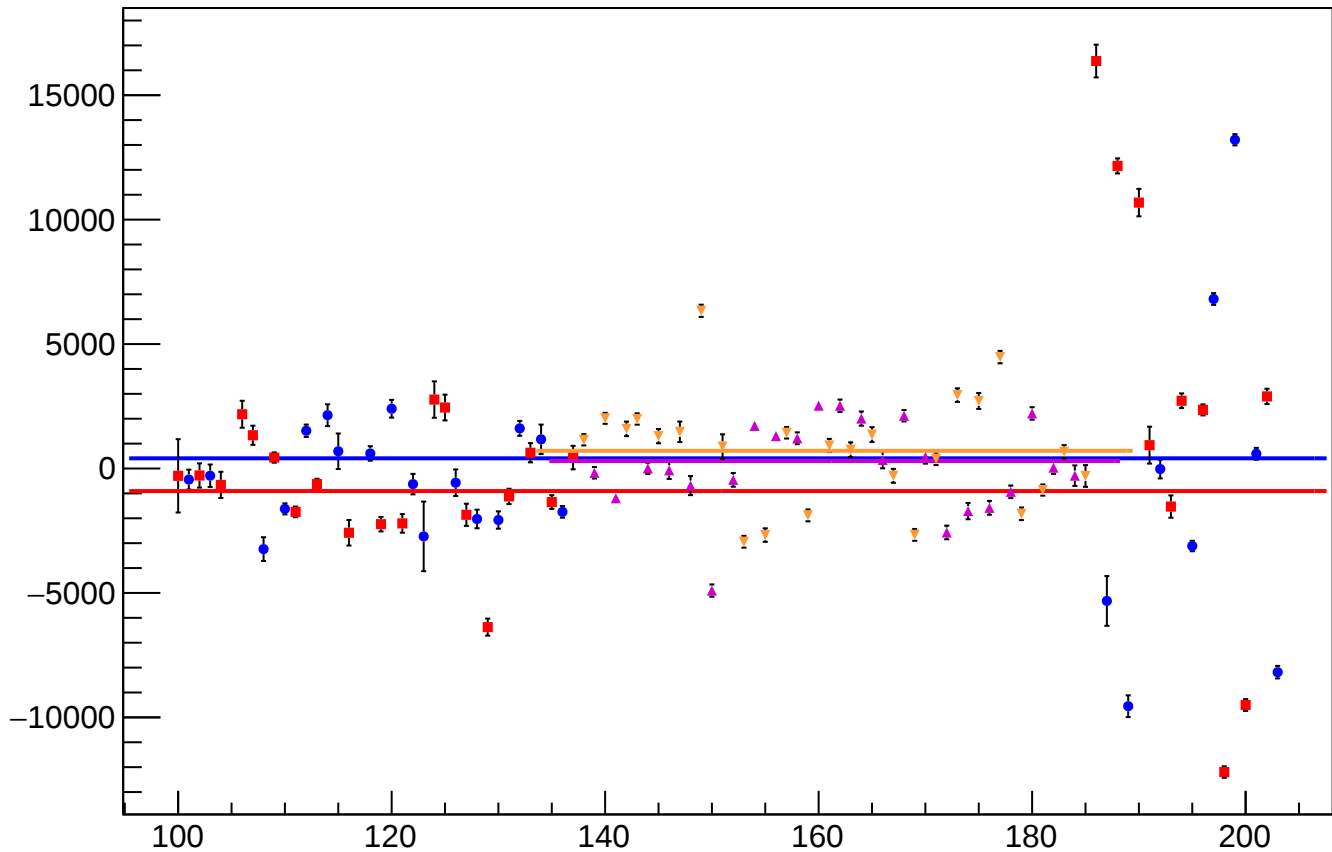
Right: 221.613 ± 0.033 $\chi^2/\text{NDF}: 4587393.3/53$

In: 210.295 ± 0.028 $\chi^2/\text{NDF}: 3019658.9/47$

Out: 217.086 ± 0.028 $\chi^2/\text{NDF}: 3690031.5/53$

All: 213.706 ± 0.020 $\chi^2/\text{NDF}: 6738266.6/103$

asym_bpm0l05WS_mean vs Slug, Sign Corrected



Right In: 409.488+/-64.111 χ^2/NDF : 6380.9/24

Left Out: 711.174+/-53.245 χ^2/NDF :1835.3/24

Right Out: -905.670+/-61.488 χ^2/NDF : 7713.3/28

Left In: 300.516+/-51.984 χ^2/NDF :1208.6/22

Left: 500.925+/-37.196 χ^2/NDF : 3074.4/47

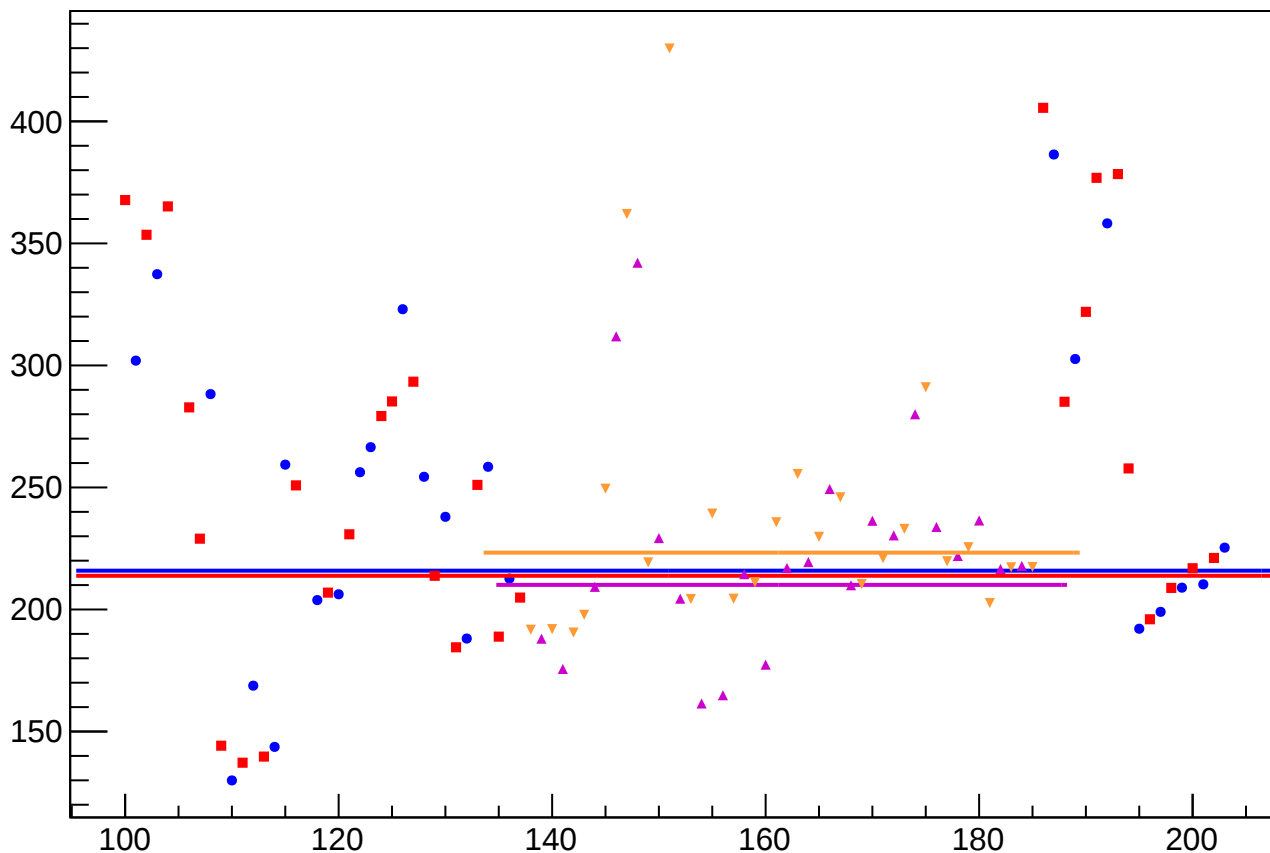
Right: -275.543+/-44.377 χ^2/NDF : 14313.4/53

In: 343.742+/-40.378 χ^2/NDF :7591.3/47

Out: 18.318+/-40.251 χ^2/NDF :9943.8/53

All: 180.517+/-28.507 χ^2/NDF : 17567.6/101

asym_bpm0l05WS_rms vs Slug, Sign Corrected



Right In: 215.905 ± 0.045 $\chi^2/\text{NDF}: 1344073.0/24$

Left Out: 223.296 ± 0.038 $\chi^2/\text{NDF}: 922768.4/24$

Right Out: 213.824 ± 0.043 $\chi^2/\text{NDF}: 2085794.2/28$

Left In: 210.080 ± 0.037 $\chi^2/\text{NDF}: 1015274.5/22$

Left: 216.530 ± 0.026 $\chi^2/\text{NDF}: 2001132.1/47$

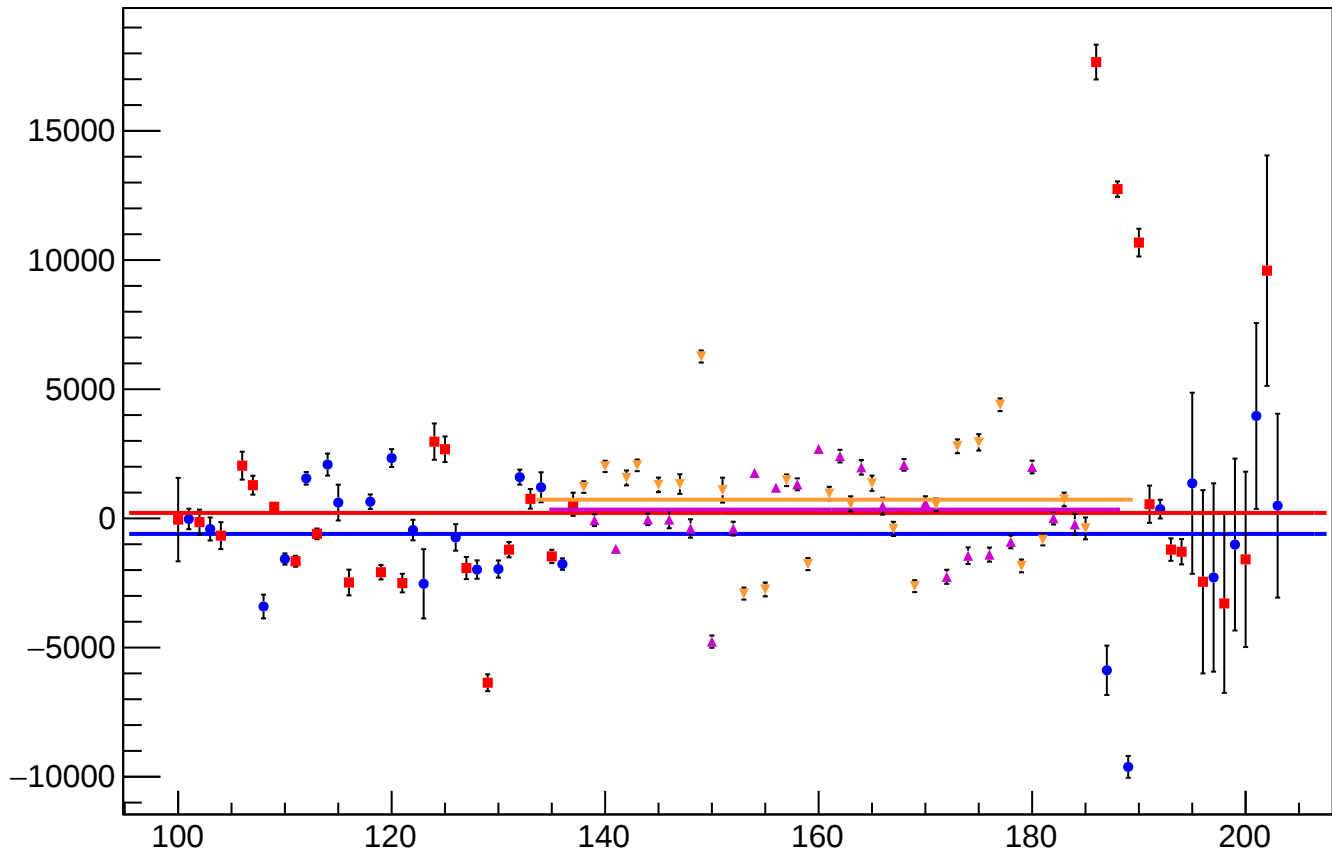
Right: 214.821 ± 0.031 $\chi^2/\text{NDF}: 3430964.1/53$

In: 212.390 ± 0.029 $\chi^2/\text{NDF}: 2369307.7/47$

Out: 219.237 ± 0.028 $\chi^2/\text{NDF}: 3035686.1/53$

All: 215.825 ± 0.020 $\chi^2/\text{NDF}: 5433838.1/103$

asym_bpm0l06WS_mean vs Slug, Sign Corrected



Right In: -600.683 ± 79.099 χ^2/NDF : 893.8/24

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

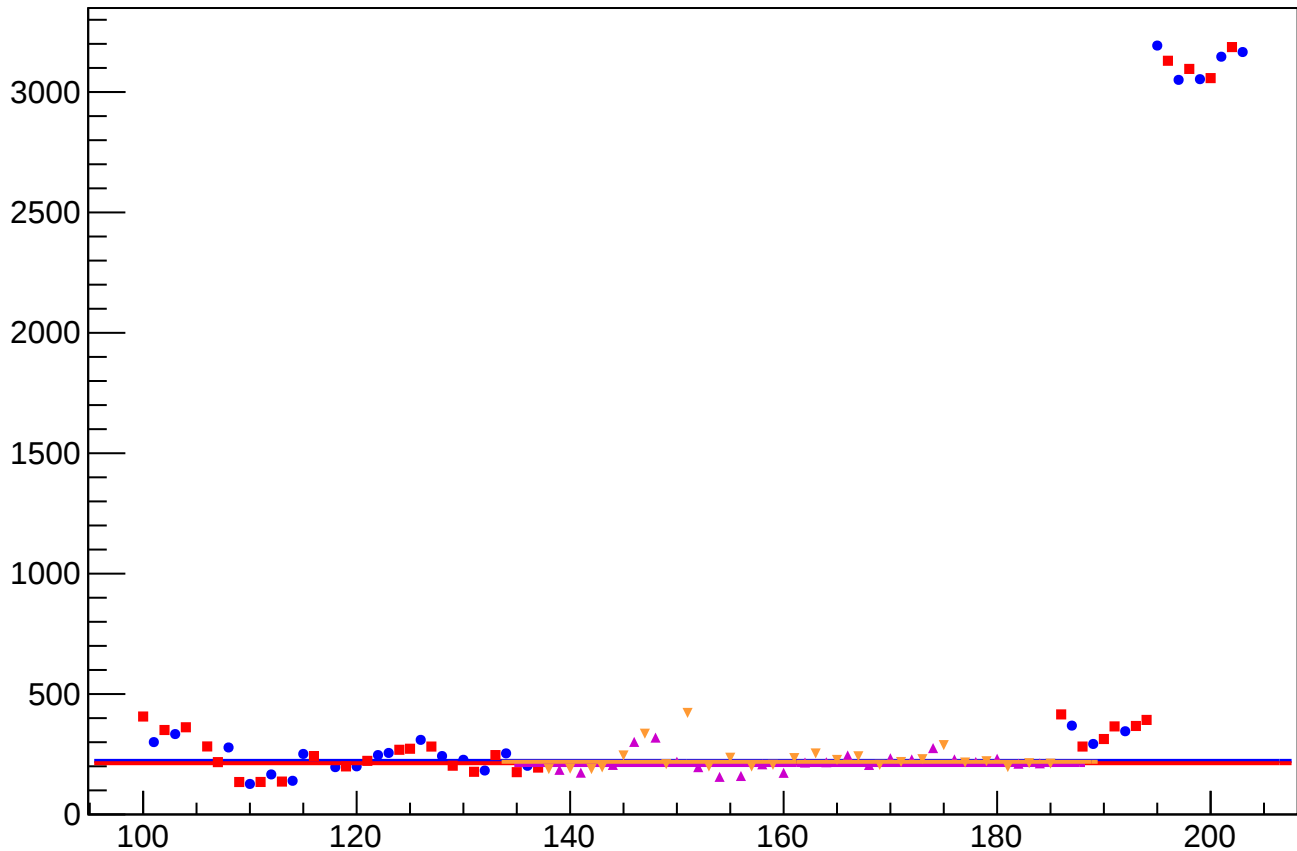
Right: -144.667 ± 52.424 χ^2/NDF : 4591.0/53

In: 65.643 ± 42.745 χ^2/NDF : 2195.9/47

Out: 542.642 ± 41.826 χ^2/NDF : 5585.2/53

All: 309.326 ± 29.895 χ^2/NDF : 7844.7/101

asym_bpm0l06WS_rms vs Slug, Sign Corrected



Right In: 222.493+/-0.056 χ^2/NDF : 8074244.2/24

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

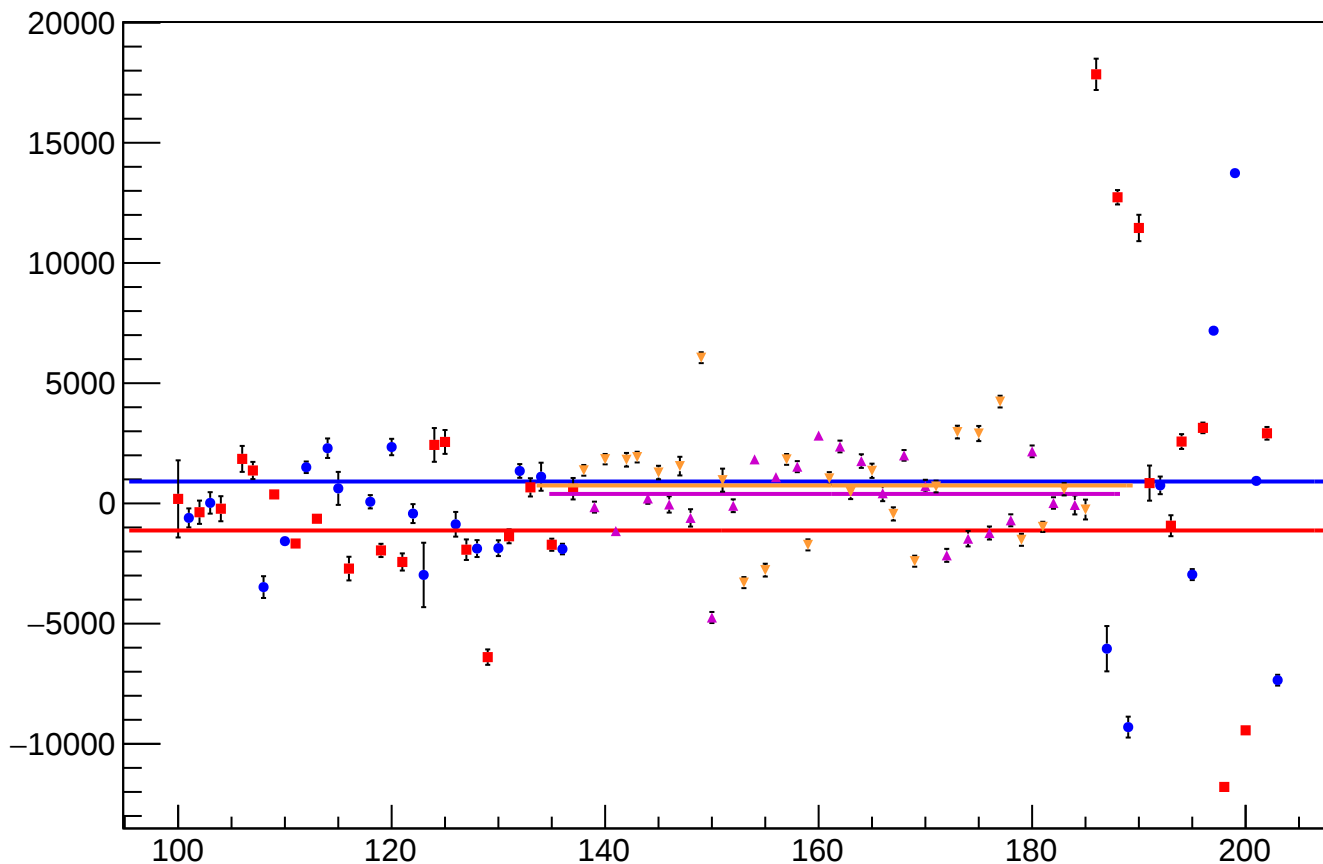
Right: 217.074+/-0.037 χ^2/NDF : 15551266.8/53

In: 210.285+/-0.030 χ^2/NDF : 9138709.4/47

Out: 216.649+/-0.030 χ^2/NDF : 8366452.9/53

All: 213.536+/-0.021 χ^2/NDF : 17527807.5/100

asym_bpm0l07WS_mean vs Slug, Sign Corrected



Right In: 911.272 $\pm$ 60.180 χ^2 /NDF: 8219.5/24

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

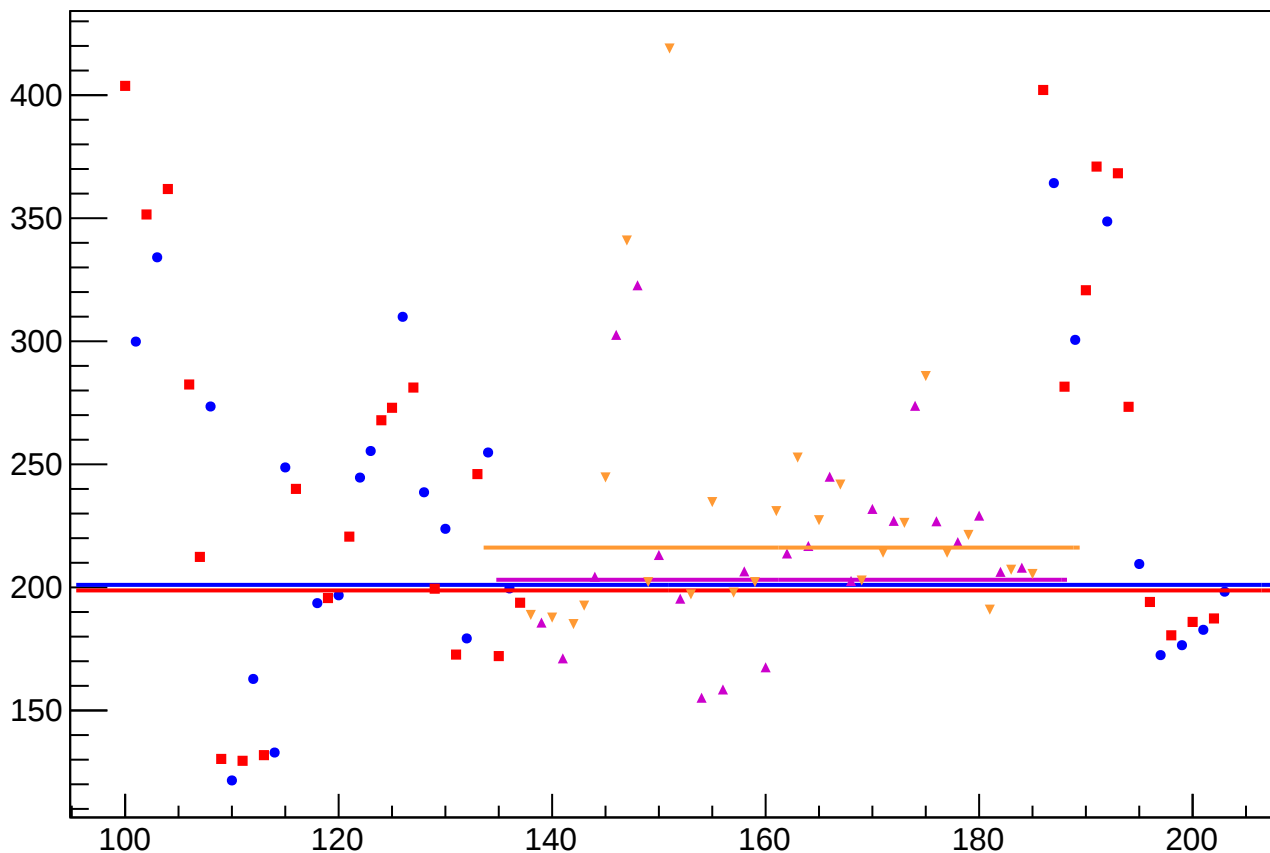
Right: -150.645 $\pm$ 41.635 χ^2 /NDF: 18088.8/53

In: 607.025 $\pm$ 38.599 χ^2 /NDF:9499.3/47

Out: -85.891 $\pm$ 38.449 χ^2 /NDF:11799.5/53

All: 259.216 $\pm$ 27.240 χ^2 /NDF: 21460.6/101

asym_bpm0l07WS_rms vs Slug, Sign Corrected



Right In: 201.029+/-0.043 χ^2/NDF : 1518641.5/24

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

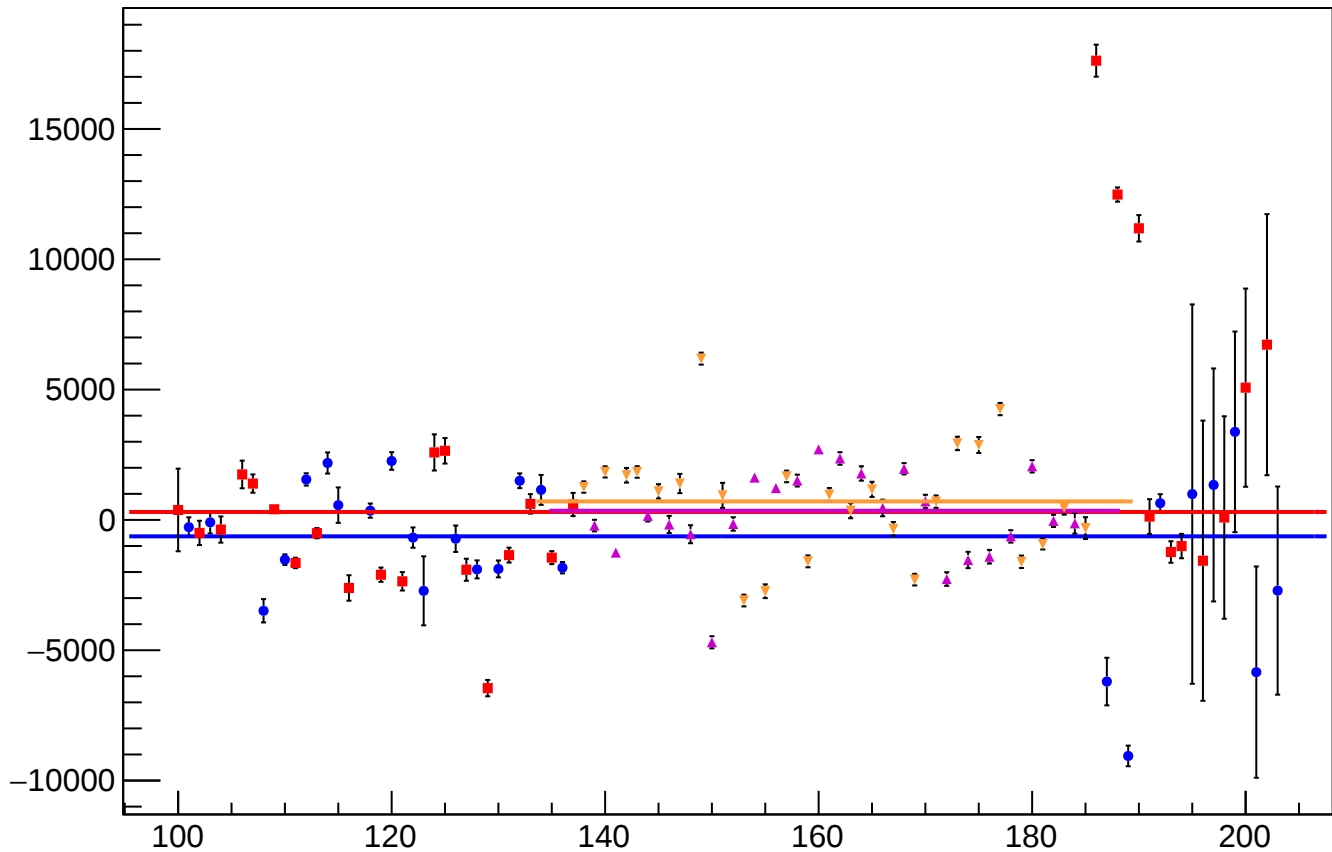
Right: 199.850+/-0.029 χ^2/NDF : 3956682.3/53

In: 202.248+/-0.027 χ^2/NDF : 2558049.9/47

Out: 208.438+/-0.027 χ^2/NDF : 3483876.9/53

All: 205.355+/-0.019 χ^2/NDF : 6067737.0/103

asym_bpm0l08WS_mean vs Slug, Sign Corrected



Right In: -630.177 ± 76.462 $\chi^2/\text{NDF}: 917.9/24$

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 $\chi^2/\text{NDF}: 3190.9/47$

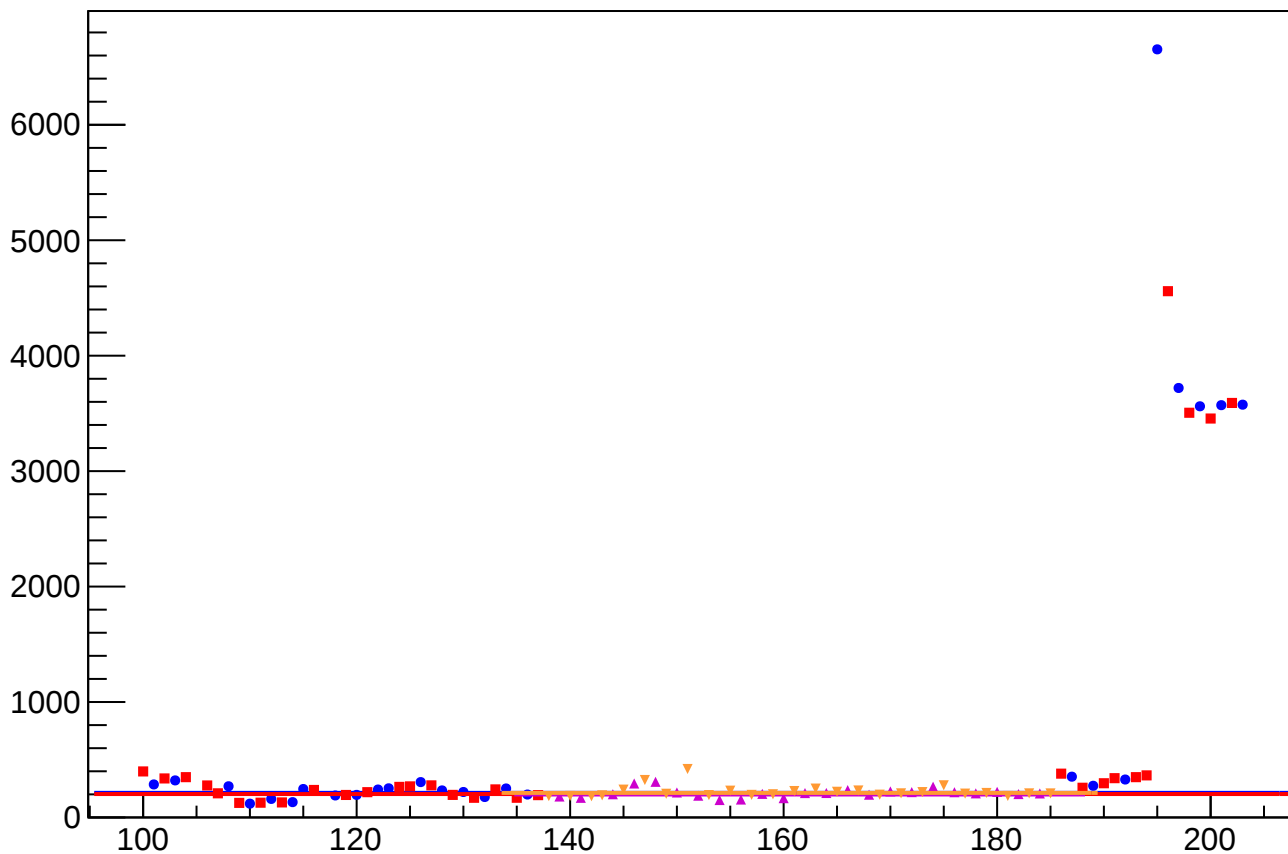
Right: -102.118 ± 50.451 $\chi^2/\text{NDF}: 5166.9/53$

In: 63.758 ± 41.444 $\chi^2/\text{NDF}: 2267.6/47$

Out: 562.909 ± 40.486 $\chi^2/\text{NDF}: 6120.0/53$

All: 319.167 ± 28.960 $\chi^2/\text{NDF}: 8461.8/101$

asym_bpm0l08WS_rms vs Slug, Sign Corrected



Right In: 213.085+/-0.054 χ^2/NDF : 8407990.0/24

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

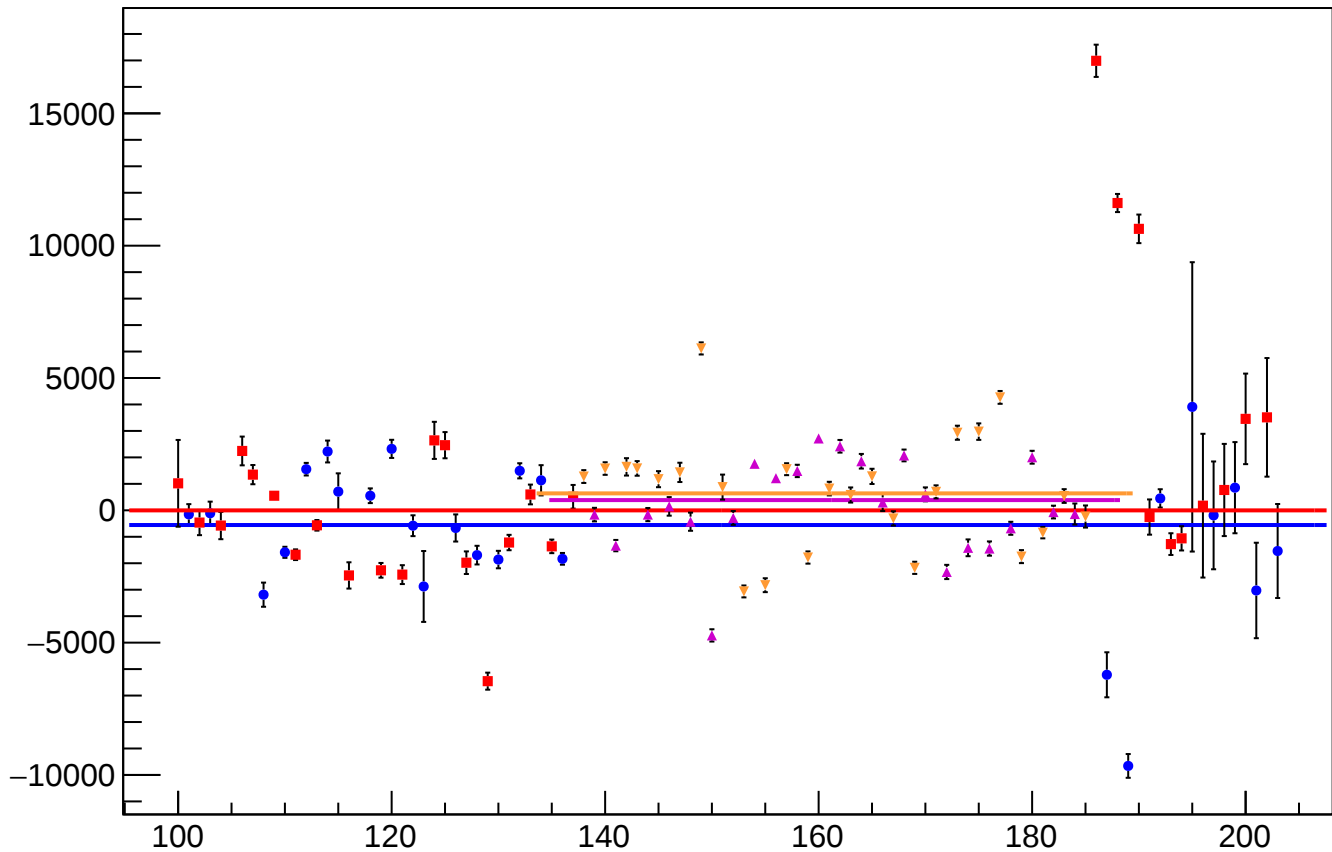
Right: 207.264+/-0.036 χ^2/NDF : 15979990.9/53

In: 203.238+/-0.029 χ^2/NDF : 9440888.5/47

Out: 209.103+/-0.029 χ^2/NDF : 8495610.3/53

All: 206.239+/-0.020 χ^2/NDF : 17956993.7/100

asym_bpm0l09WS_mean vs Slug, Sign Corrected



Right In: -555.541 ± 77.584 χ^2/NDF : 862.5/24

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

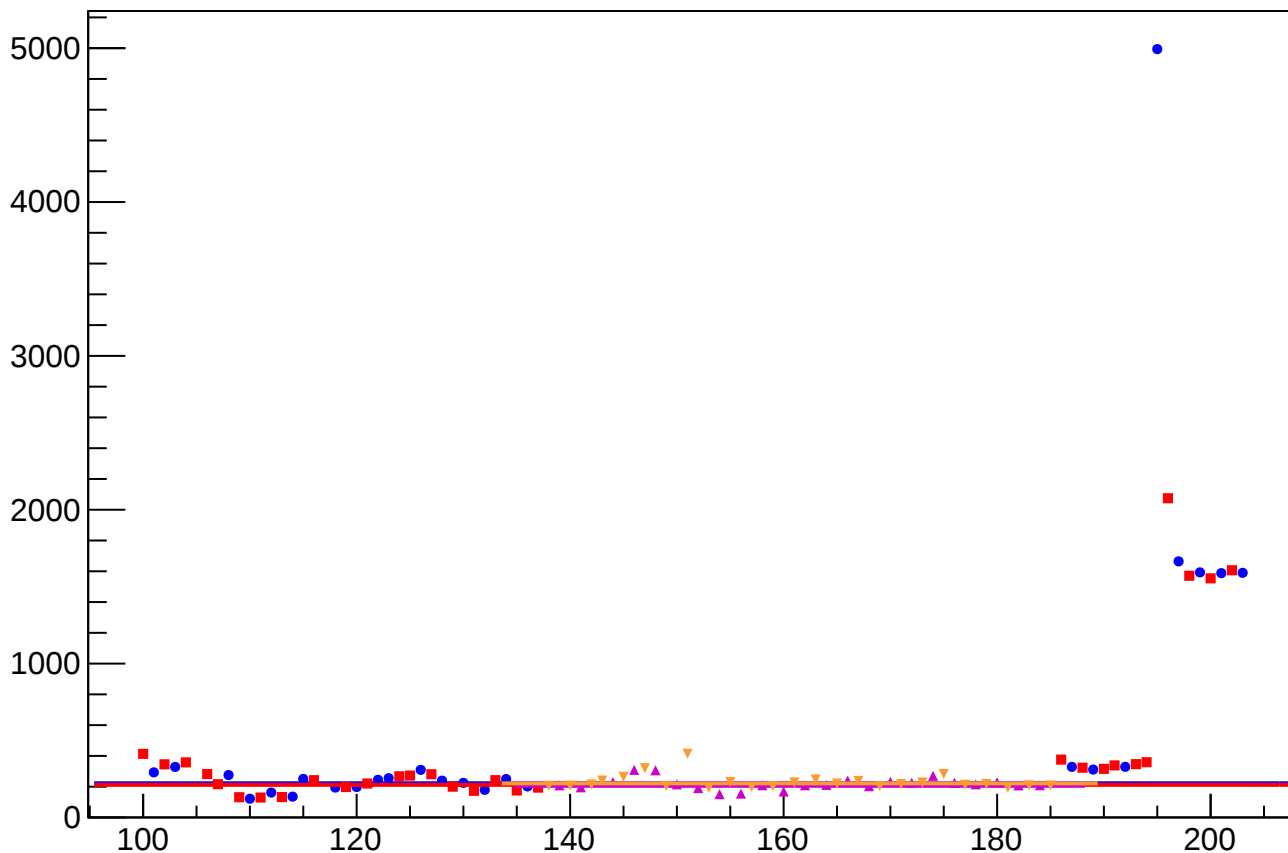
Right: -246.446 ± 51.535 χ^2/NDF : 3993.6/53

In: 102.131 ± 42.613 χ^2/NDF : 2203.5/47

Out: 403.030 ± 41.873 χ^2/NDF : 5016.7/53

All: 255.217 ± 29.867 χ^2/NDF : 7245.5/101

asym_bpm0l09WS_rms vs Slug, Sign Corrected



Right In: 222.239+/-0.055 χ^2/NDF : 7485918.9/24

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

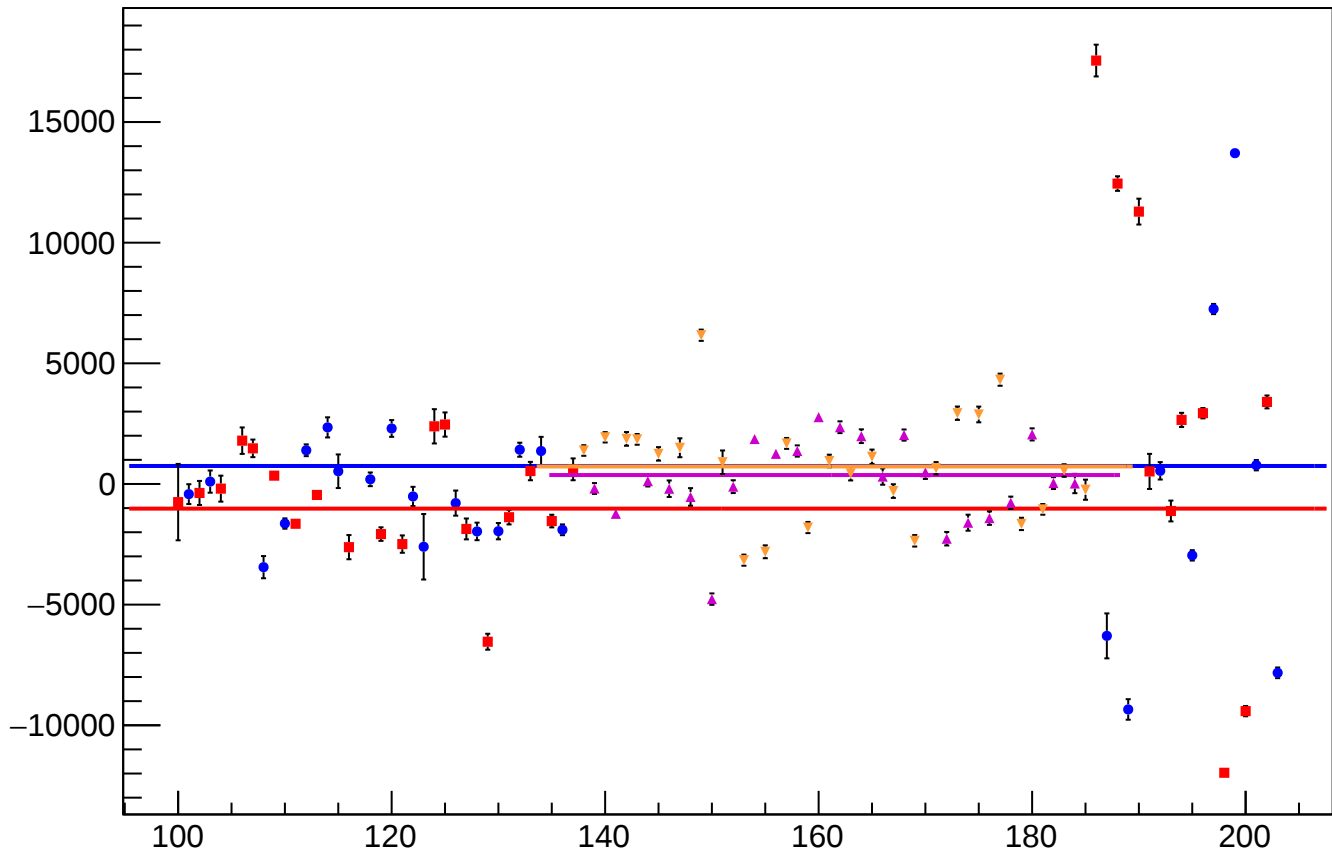
Right: 216.439+/-0.036 χ^2/NDF : 14181416.8/53

In: 210.762+/-0.030 χ^2/NDF : 8543498.8/47

Out: 217.879+/-0.030 χ^2/NDF : 7477493.4/53

All: 214.383+/-0.021 χ^2/NDF : 16049379.4/100

asym_bpm0l10WS_mean vs Slug, Sign Corrected



Right In: 745.901+/-60.862 χ^2/NDF : 8232.8/24

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

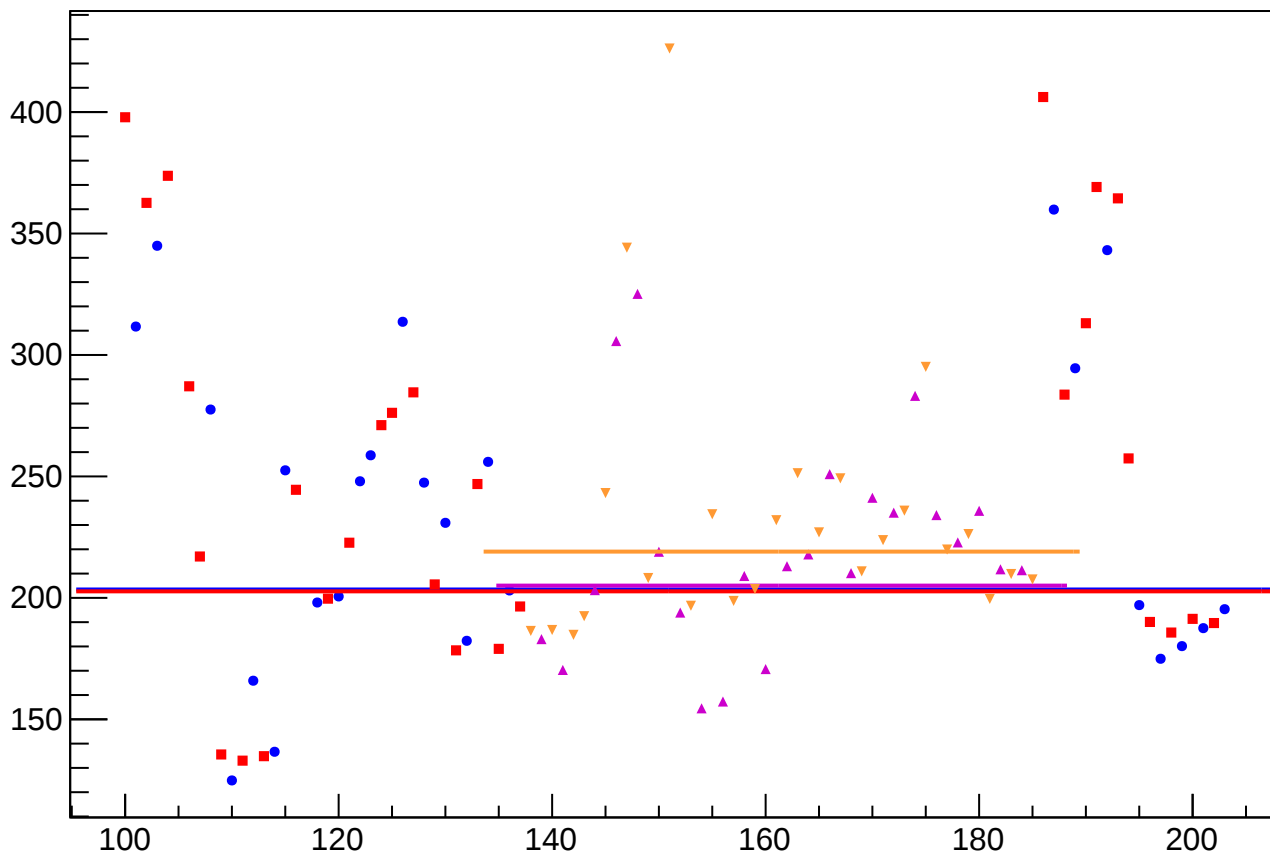
Right: -170.186+/-42.238 χ^2/NDF : 17625.7/53

In: 524.894+/-39.038 χ^2/NDF :9478.3/47

Out: -48.303+/-39.042 χ^2/NDF :11332.8/53

All: 238.325+/-27.605 χ^2/NDF : 20918.9/101

asym_bpm0l10WS_rms vs Slug, Sign Corrected



Right In: 203.451 ± 0.043 χ^2/NDF : 1472253.1/24

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

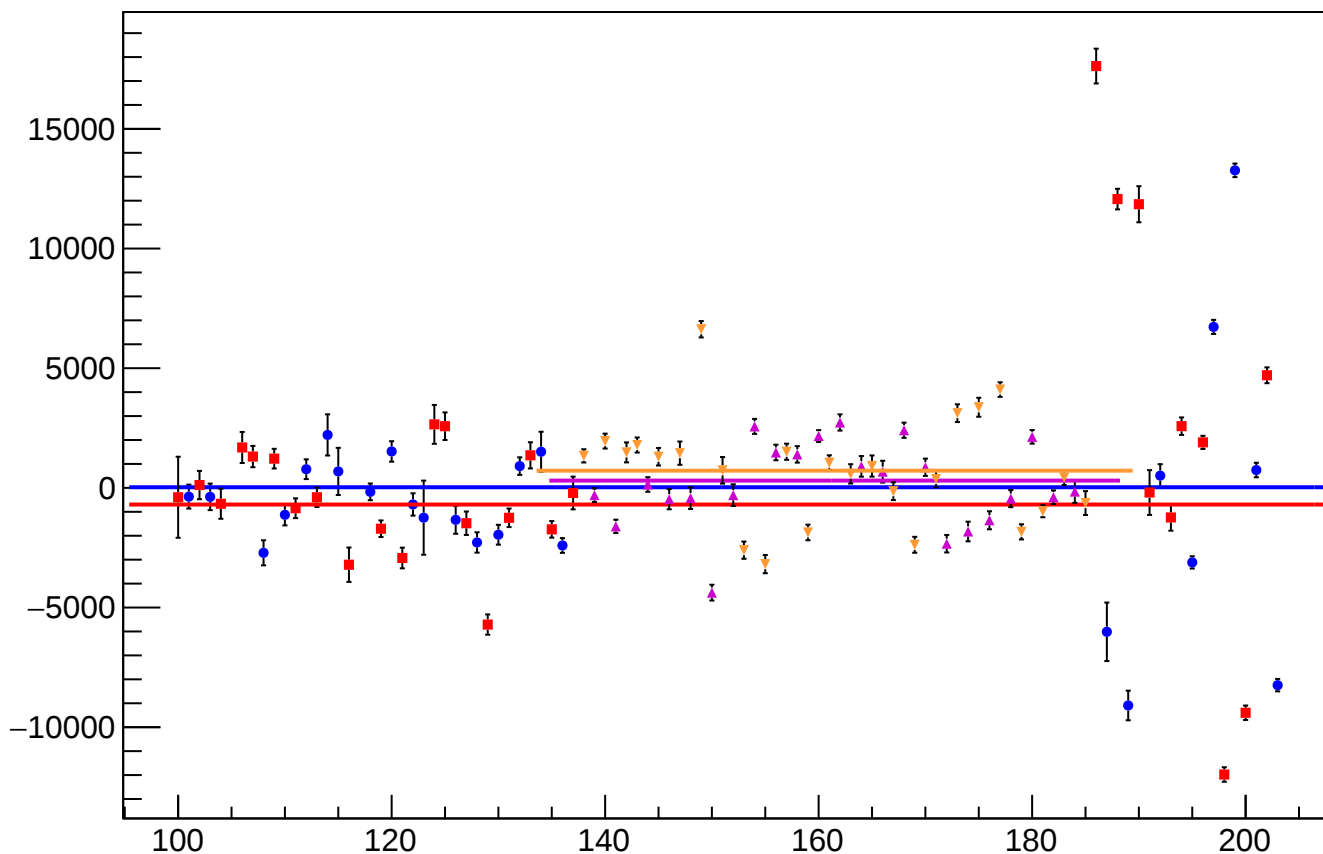
Right: 203.055 ± 0.030 χ^2/NDF : 3759380.4/53

In: 204.390 ± 0.028 χ^2/NDF : 2617259.6/47

Out: 211.802 ± 0.028 χ^2/NDF : 3349199.0/53

All: 208.096 ± 0.020 χ^2/NDF : 6002505.6/103

asym_bpm0r03WS_mean vs Slug, Sign Corrected



Right In: 26.489 ± 81.941 $\chi^2/\text{NDF}: 4281.7/24$

Left Out: 718.705 ± 69.601 $\chi^2/\text{NDF}: 1018.5/24$

Right Out: -696.326 ± 82.630 $\chi^2/\text{NDF}: 4752.3/28$

Left In: 304.161 ± 70.958 $\chi^2/\text{NDF}: 643.5/22$

Left: 515.435 ± 49.688 $\chi^2/\text{NDF}: 1679.4/47$

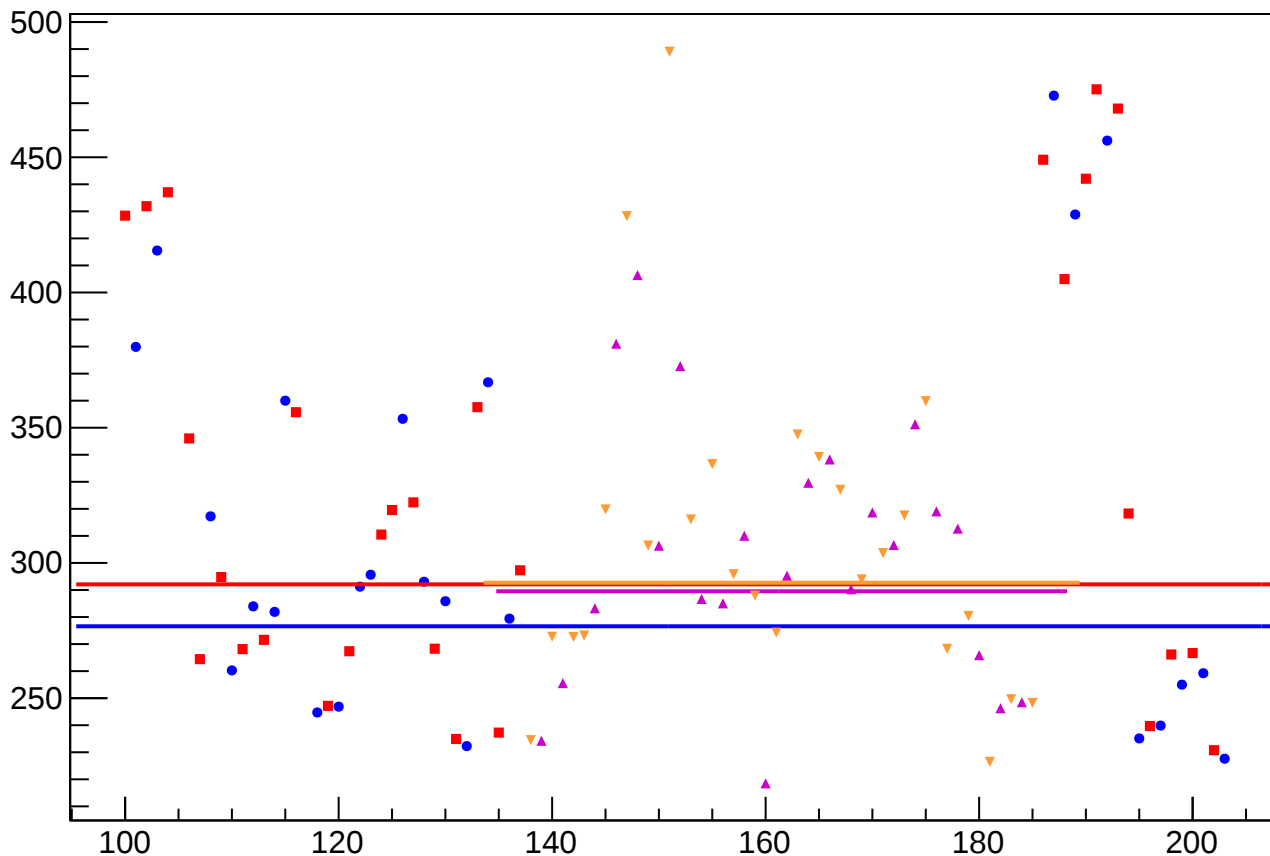
Right: -331.894 ± 58.183 $\chi^2/\text{NDF}: 9072.6/53$

In: 185.169 ± 53.641 $\chi^2/\text{NDF}: 4931.7/47$

Out: 131.421 ± 53.233 $\chi^2/\text{NDF}: 5942.4/53$

All: 158.090 ± 37.785 $\chi^2/\text{NDF}: 10874.6/101$

asym_bpm0r03WS_rms vs Slug, Sign Corrected



Right In: 276.577 $\pm$ 0.058 χ^2 /NDF: 985534.6/24

Left Out: 292.686 $\pm$ 0.049 χ^2 /NDF: 925193.6/24

Right Out: 292.089 $\pm$ 0.058 χ^2 /NDF: 1230883.6/28

Left In: 289.522 $\pm$ 0.050 χ^2 /NDF: 777901.0/22

Left: 291.134 $\pm$ 0.035 χ^2 /NDF: 1705121.5/47

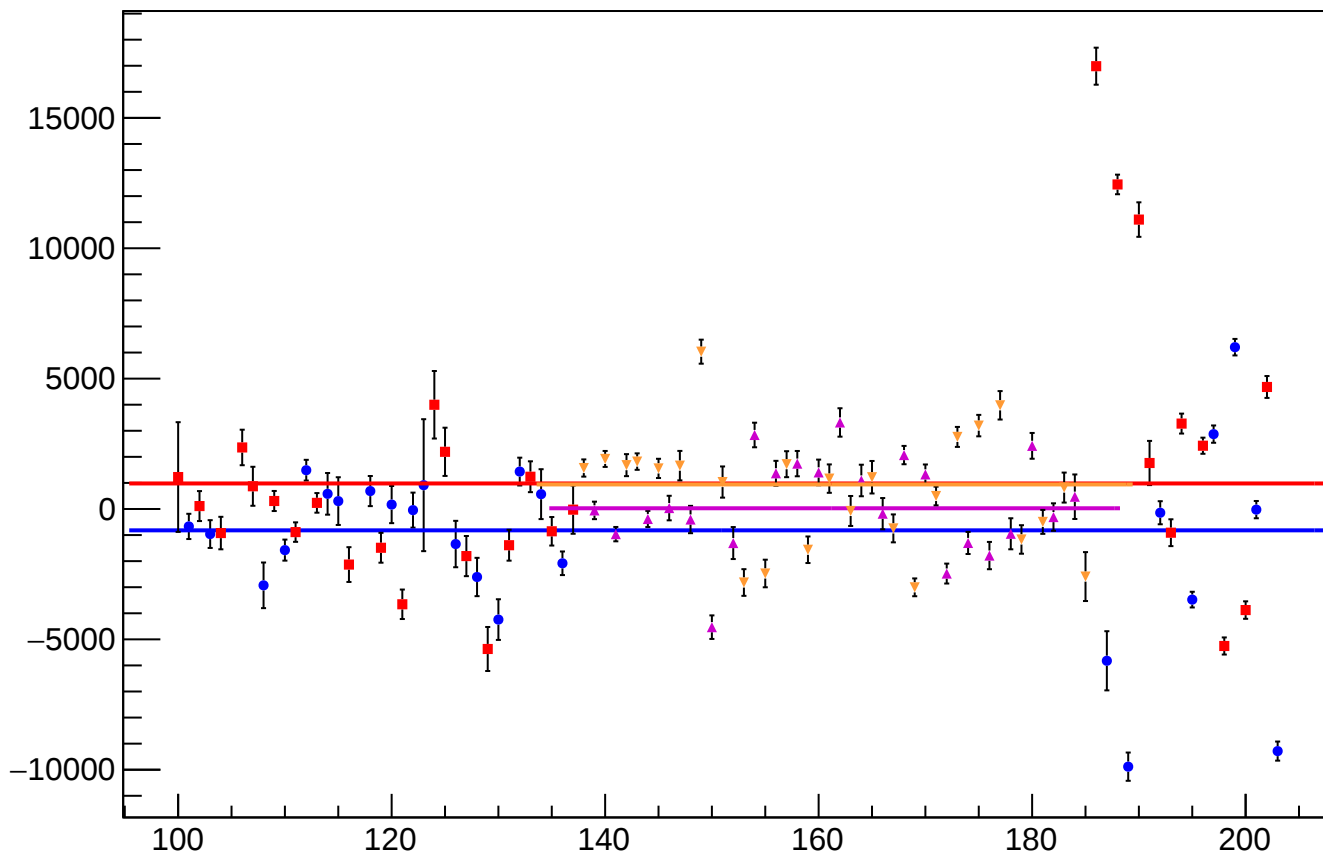
Right: 284.268 $\pm$ 0.041 χ^2 /NDF: 2251955.3/53

In: 283.974 $\pm$ 0.038 χ^2 /NDF: 1791960.0/47

Out: 292.438 $\pm$ 0.038 χ^2 /NDF: 2156138.2/53

All: 288.238 $\pm$ 0.027 χ^2 /NDF: 3973184.6/102

asym_bpm0r05WS_mean vs Slug, Sign Corrected



Right In: -818.920 ± 99.070 $\chi^2/\text{NDF}: 1647.1/24$

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 $\chi^2/\text{NDF}: 957.8/47$

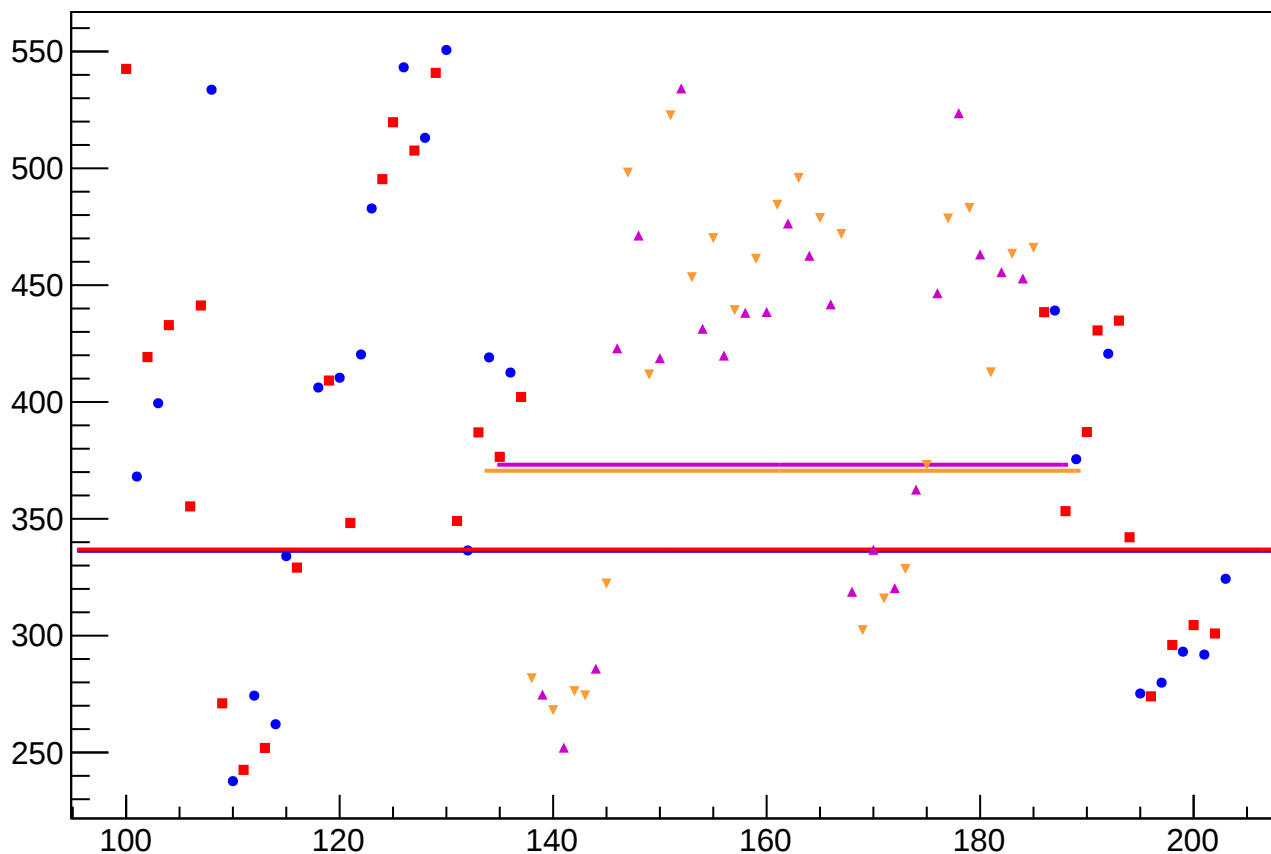
Right: 122.468 ± 68.385 $\chi^2/\text{NDF}: 4474.7/53$

In: -365.804 ± 67.545 $\chi^2/\text{NDF}: 2048.7/47$

Out: 959.318 ± 64.840 $\chi^2/\text{NDF}: 3199.8/53$

All: 323.822 ± 46.776 $\chi^2/\text{NDF}: 5448.8/101$

asym_bpm0r05WS_rms vs Slug, Sign Corrected



Right In: 336.321 ± 0.070 $\chi^2/\text{NDF}: 1174470.7/24$

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 $\chi^2/\text{NDF}: 3515172.3/47$

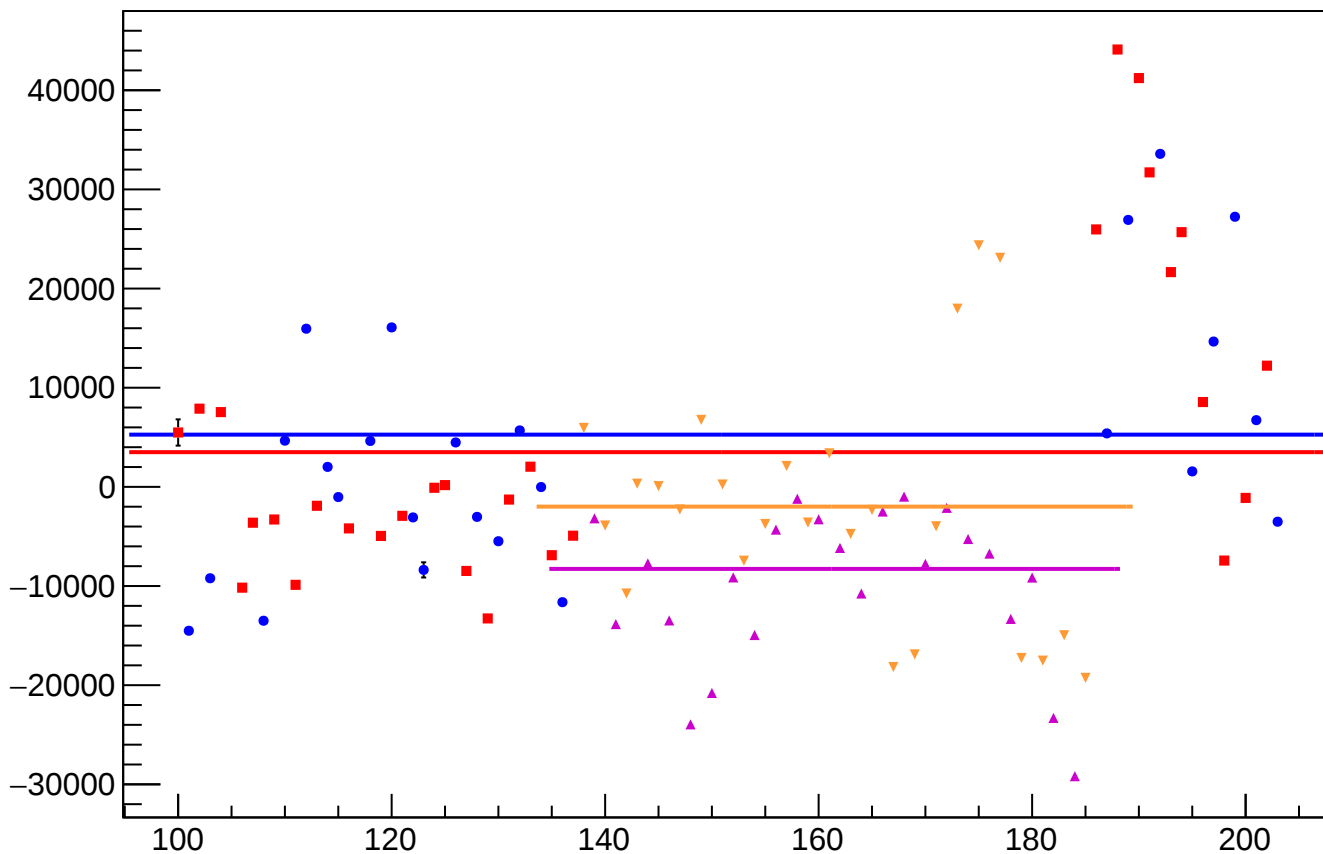
Right: 336.599 ± 0.048 $\chi^2/\text{NDF}: 2302868.9/53$

In: 356.036 ± 0.048 $\chi^2/\text{NDF}: 2958715.3/47$

Out: 354.706 ± 0.046 $\chi^2/\text{NDF}: 3141300.1/53$

All: 355.344 ± 0.033 $\chi^2/\text{NDF}: 6100419.0/103$

asym_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 5267.696+/-44.348 χ^2/NDF : 86495.0/24

Left Out: -1991.788+/-42.427 χ^2/NDF : 63766.6/24

Right Out: 3501.445+/-42.017 χ^2/NDF : 132040.1/28

Left In: -8273.228+/-44.301 χ^2/NDF : 22870.2/22

Left: -4996.810+/-30.641 χ^2/NDF : 97123.2/47

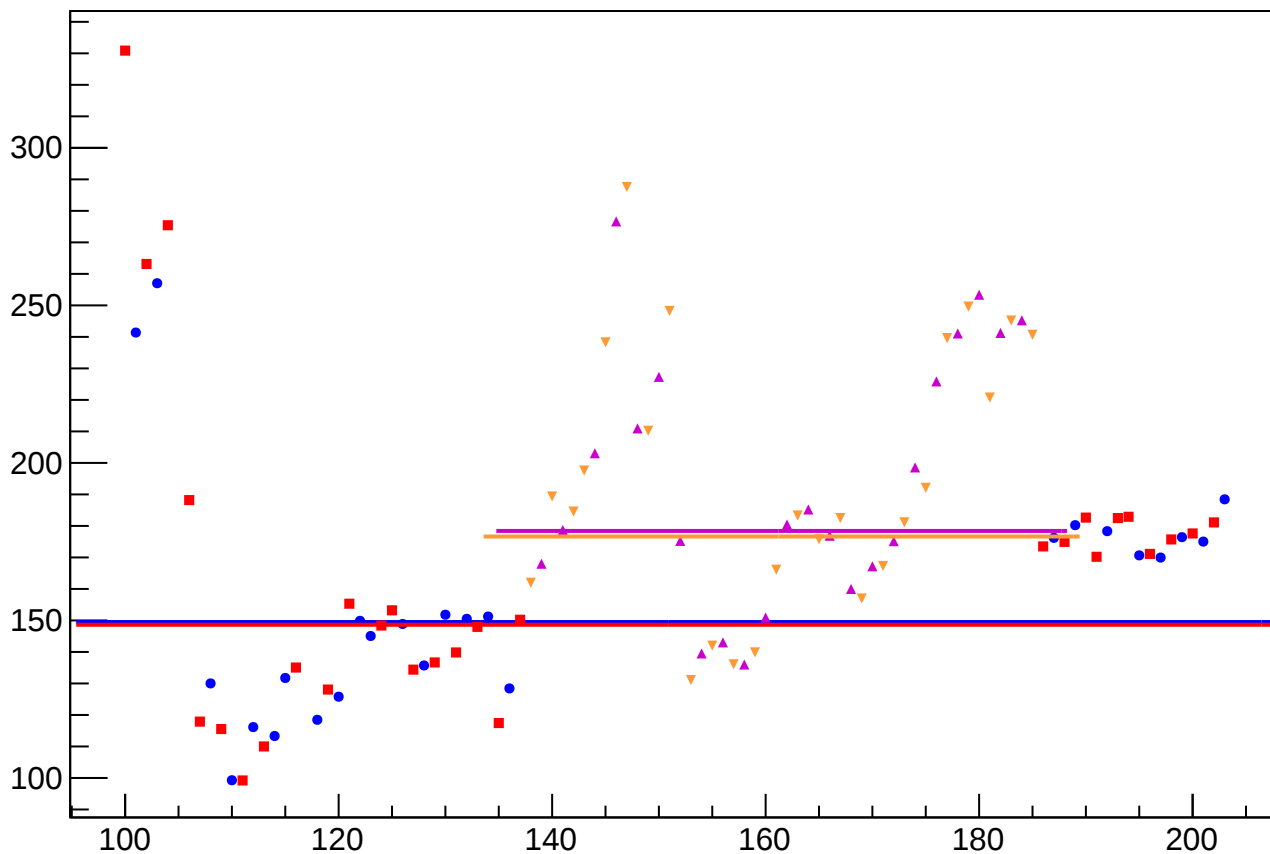
Right: 4336.926+/-30.501 χ^2/NDF : 219371.0/53

In: -1509.965+/-31.342 χ^2/NDF : 156028.3/47

Out: 781.485+/-29.854 χ^2/NDF : 204270.0/53

All: -308.555+/-21.617 χ^2/NDF : 363100.8/10

asym_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 149.494+/-0.031 χ^2/NDF : 1064776.5/24

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

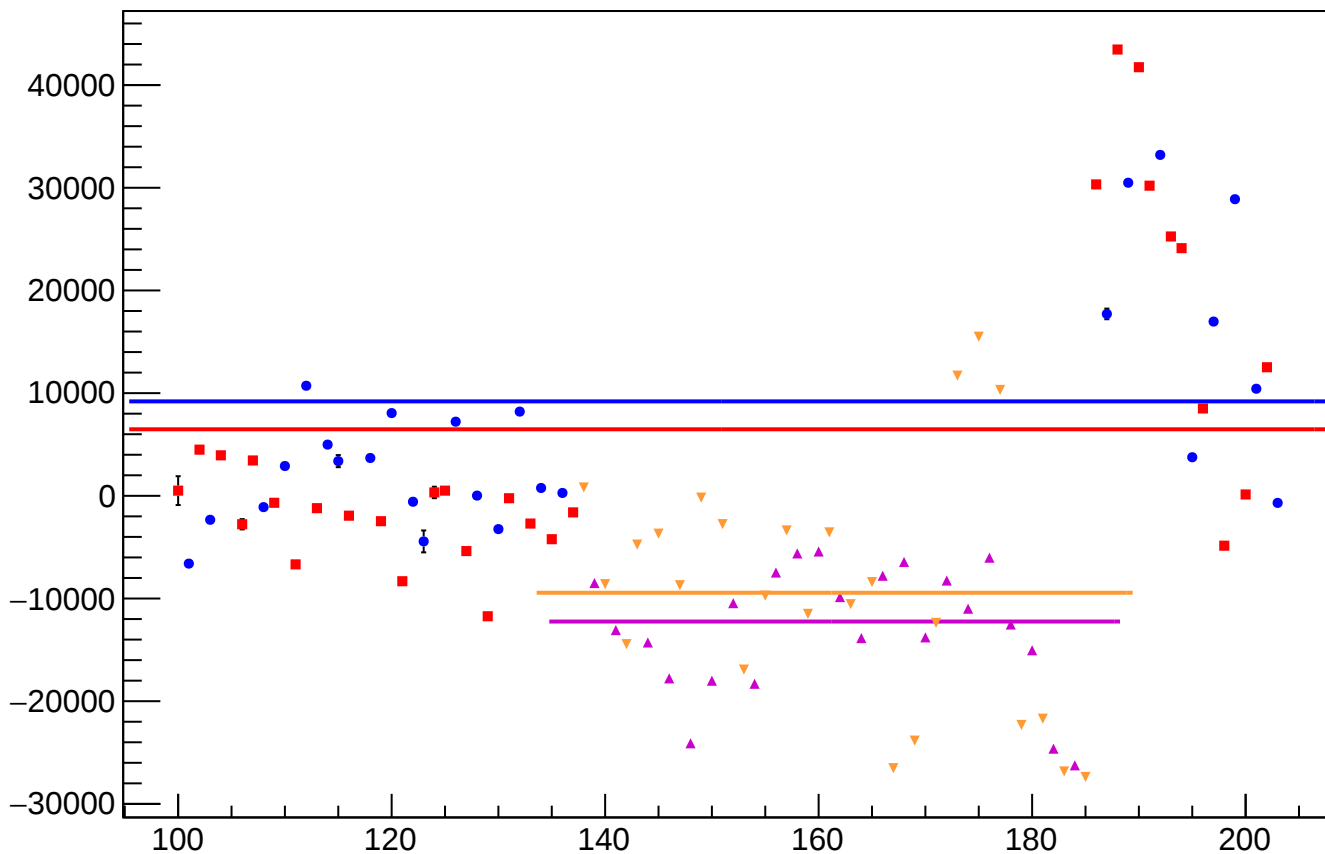
Right: 149.040+/-0.022 χ^2/NDF : 2418557.7/53

In: 163.969+/-0.022 χ^2/NDF :2784198.7/47

Out: 162.500+/-0.021 χ^2/NDF :3344487.7/53

All: 163.199+/-0.015 χ^2/NDF : 6130988.5/103

asym_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 9197.469+/-51.213

χ^2/NDF : 48378.8/24

Left: -10889.638+/-31.621

χ^2/NDF : 80800.7/47

Left Out: -9437.408+/-45.534

χ^2/NDF : 62220.4/24

Right: 7759.557+/-35.140

χ^2/NDF : 151996.1/53

Right Out: 6480.357+/-48.304

χ^2/NDF : 102127.7/28

In: -3150.561+/-33.350

χ^2/NDF : 165932.5/47

Out: -1947.955+/-33.134

χ^2/NDF : 221846.3/53

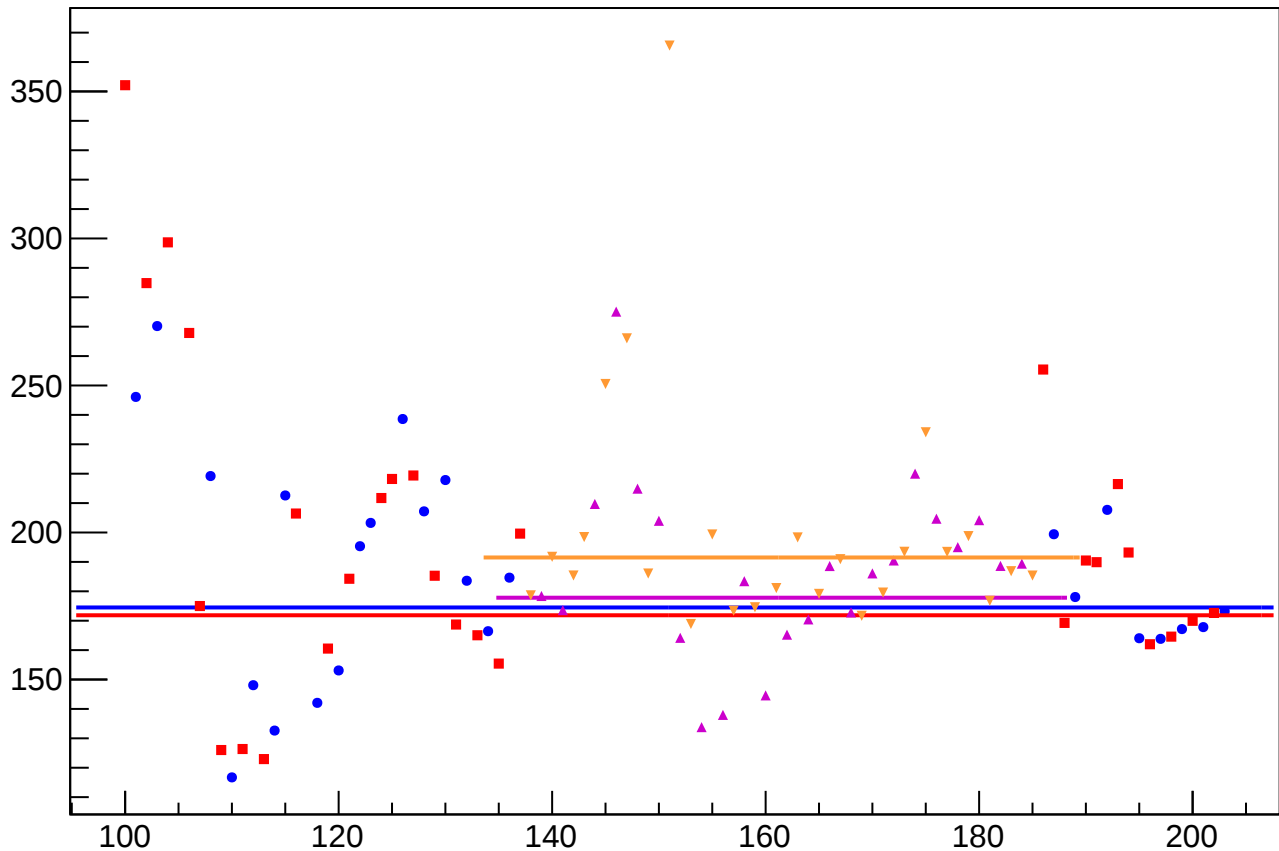
Left In: -12242.226+/-43.944

χ^2/NDF : 16615.8/22

All: -2545.346+/-23.505

χ^2/NDF : 388433.1/1

asym_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 174.506 ± 0.036 $\chi^2/\text{NDF}: 758144.9/24$

Left Out: 191.507 ± 0.032 $\chi^2/\text{NDF}: 727251.6/24$

Right Out: 171.850 ± 0.034 $\chi^2/\text{NDF}: 1123599.9/28$

Left In: 177.821 ± 0.031 $\chi^2/\text{NDF}: 862494.4/22$

Left: 184.421 ± 0.022 $\chi^2/\text{NDF}: 1683284.8/47$

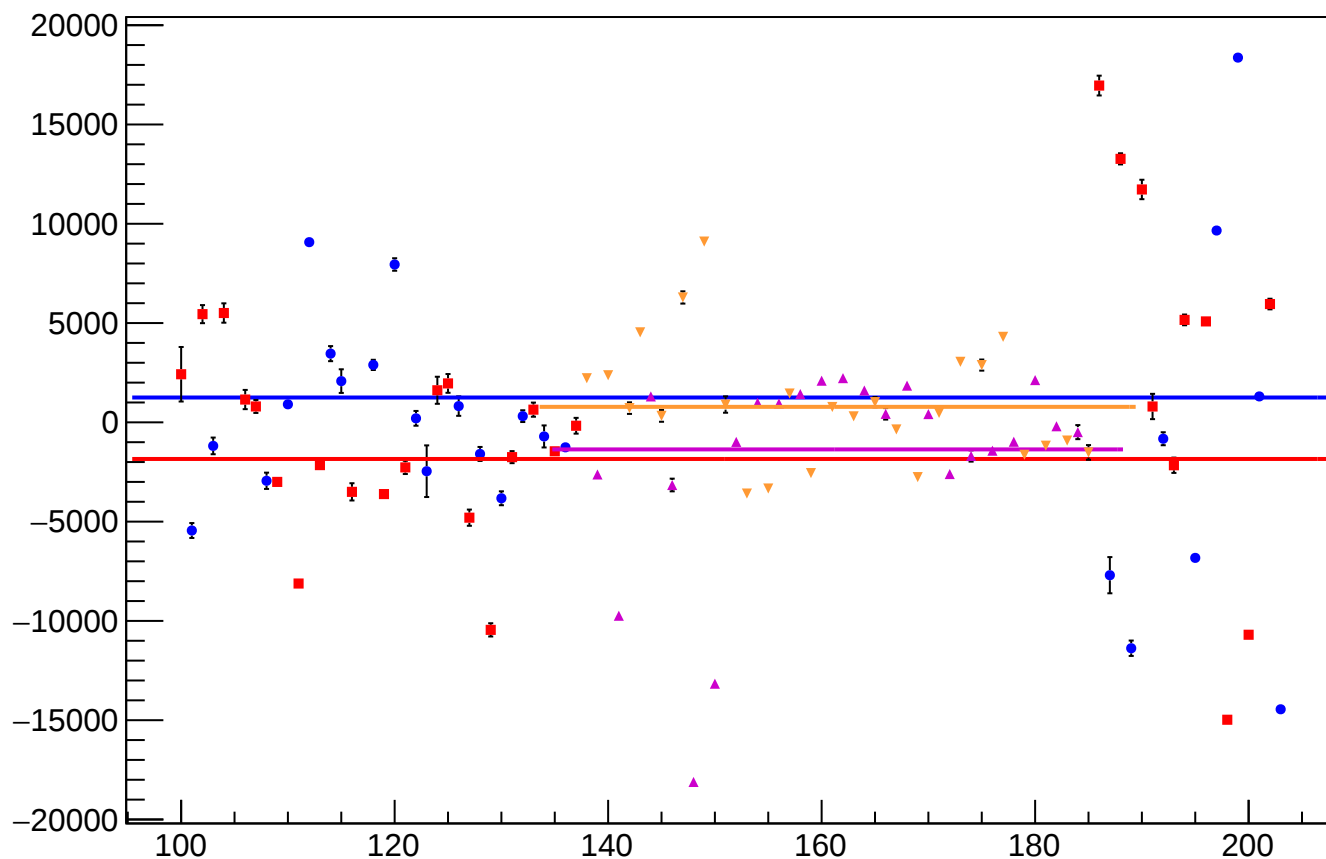
Right: 173.100 ± 0.025 $\chi^2/\text{NDF}: 1884590.8/53$

In: 176.415 ± 0.024 $\chi^2/\text{NDF}: 1625468.0/47$

Out: 182.258 ± 0.023 $\chi^2/\text{NDF}: 2026216.8/53$

All: 179.356 ± 0.017 $\chi^2/\text{NDF}: 3682577.7/103$

asym_bpm0i05WS_mean vs Slug, Sign Corrected



Right In: 1250.674 $\pm$ 57.546 χ^2/NDF : 19635.7/24

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

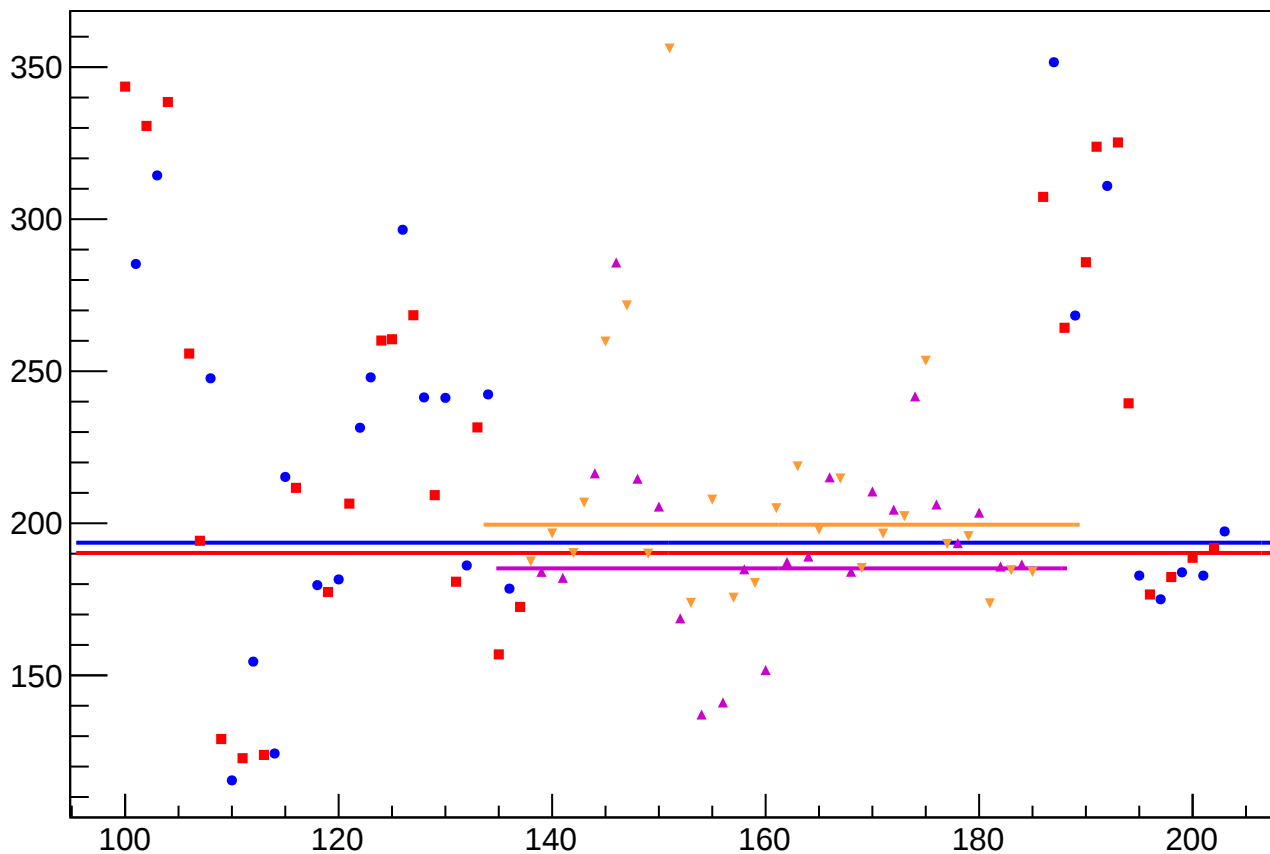
Right: -376.319 $\pm$ 39.634 χ^2/NDF : 37690.6/53

In: -349.291 $\pm$ 35.839 χ^2/NDF :32531.4/47

Out: -347.928 $\pm$ 35.837 χ^2/NDF :22109.4/53

All: -348.609 $\pm$ 25.341 χ^2/NDF : 54640.8/101

asym_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 193.619 ± 0.041 $\chi^2/\text{NDF}: 1406821.6/24$

Left Out: 199.547 ± 0.034 $\chi^2/\text{NDF}: 729356.3/24$

Right Out: 190.243 ± 0.039 $\chi^2/\text{NDF}: 2127644.8/28$

Left In: 185.171 ± 0.032 $\chi^2/\text{NDF}: 882752.2/22$

Left: 192.104 ± 0.023 $\chi^2/\text{NDF}: 1707122.0/47$

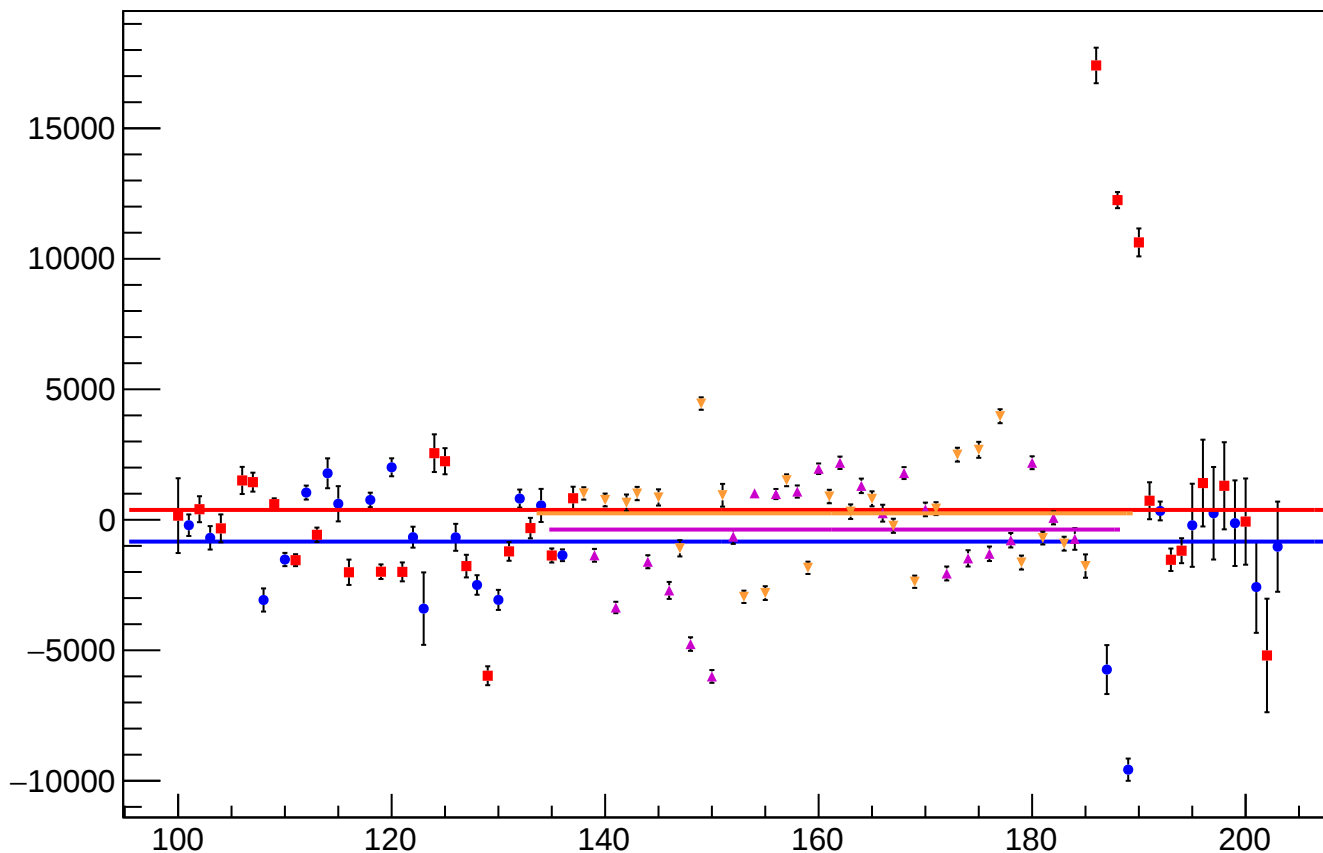
Right: 191.844 ± 0.028 $\chi^2/\text{NDF}: 3538085.7/53$

In: 188.447 ± 0.025 $\chi^2/\text{NDF}: 2315962.7/47$

Out: 195.548 ± 0.025 $\chi^2/\text{NDF}: 2890037.8/53$

All: 191.998 ± 0.018 $\chi^2/\text{NDF}: 5245258.6/103$

asym_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -835.352 ± 83.641 $\chi^2/\text{NDF}: 761.2/24$

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 $\chi^2/\text{NDF}: 3225.5/47$

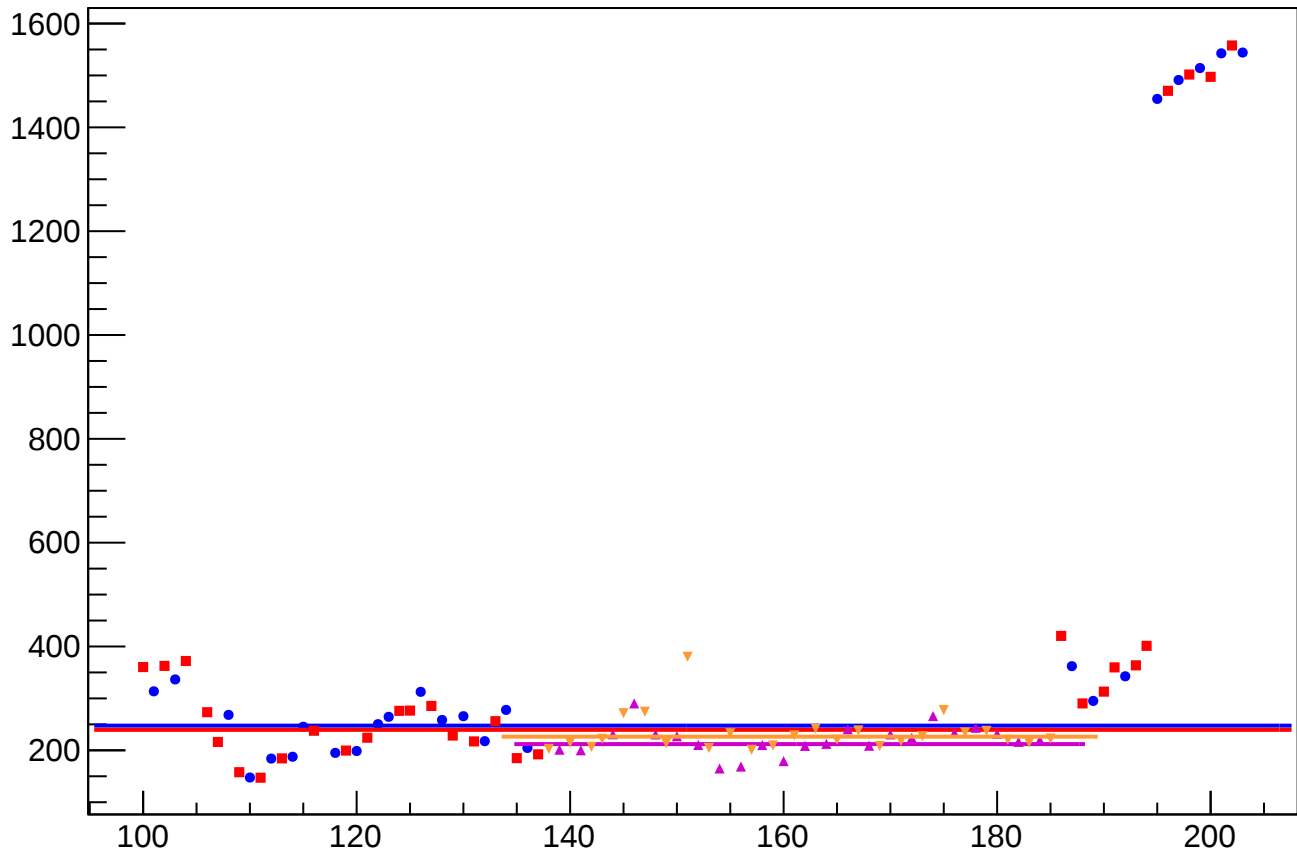
Right: -163.938 ± 55.897 $\chi^2/\text{NDF}: 4046.7/53$

In: -502.873 ± 44.191 $\chi^2/\text{NDF}: 2584.1/47$

Out: 291.667 ± 43.611 $\chi^2/\text{NDF}: 4526.2/53$

All: -100.357 ± 31.041 $\chi^2/\text{NDF}: 7274.1/101$

asym_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 247.535 $\pm$ 0.059 χ^2 /NDF: 6556667.9/24

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

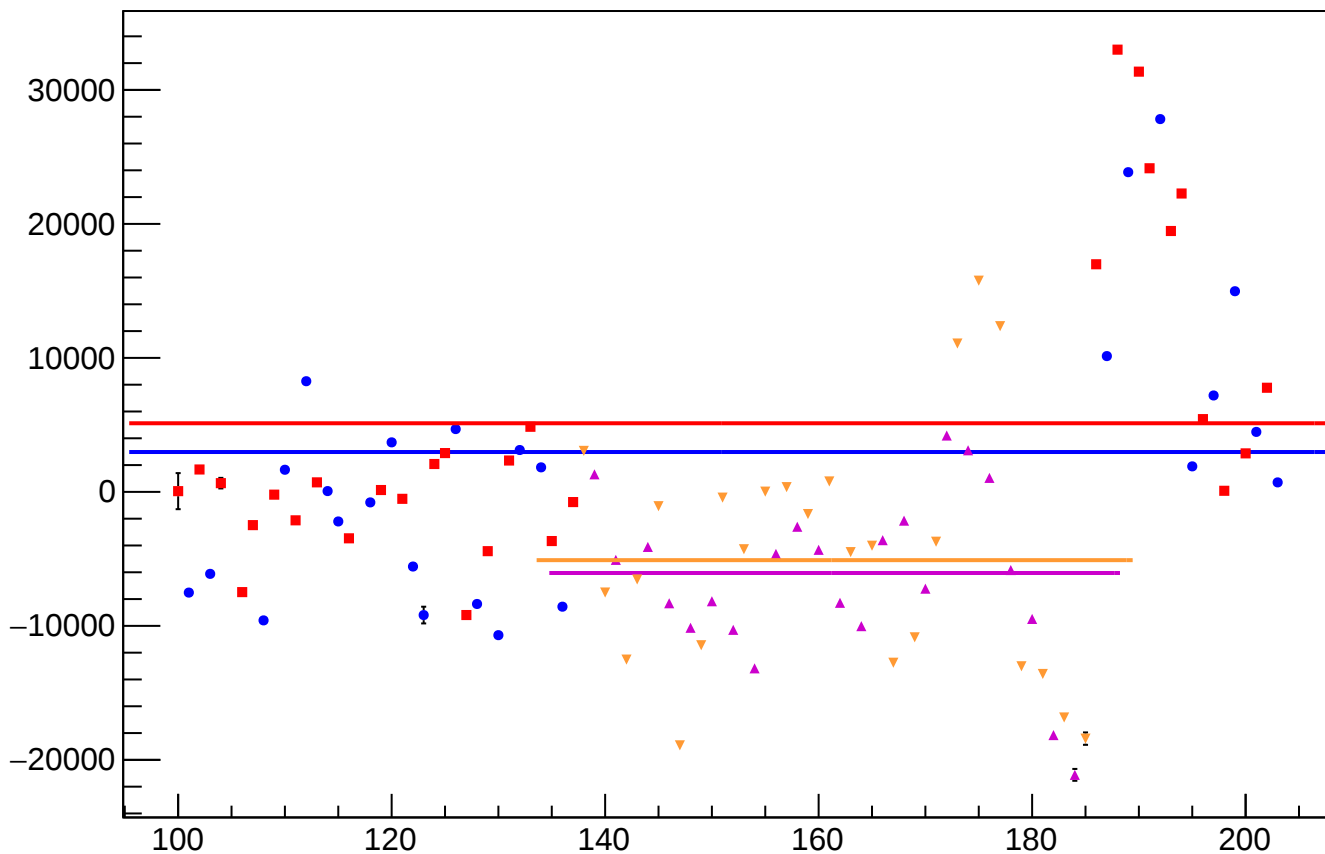
Right: 243.060 $\pm$ 0.040 χ^2 /NDF: 12534457.7/53

In: 221.898 $\pm$ 0.031 χ^2 /NDF: 7401672.5/47

Out: 230.744 $\pm$ 0.031 χ^2 /NDF: 6528972.0/53

All: 226.379 $\pm$ 0.022 χ^2 /NDF: 13971244.9/10

asym_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: 2975.453+/-37.694 χ^2/NDF : 73382.5/24

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

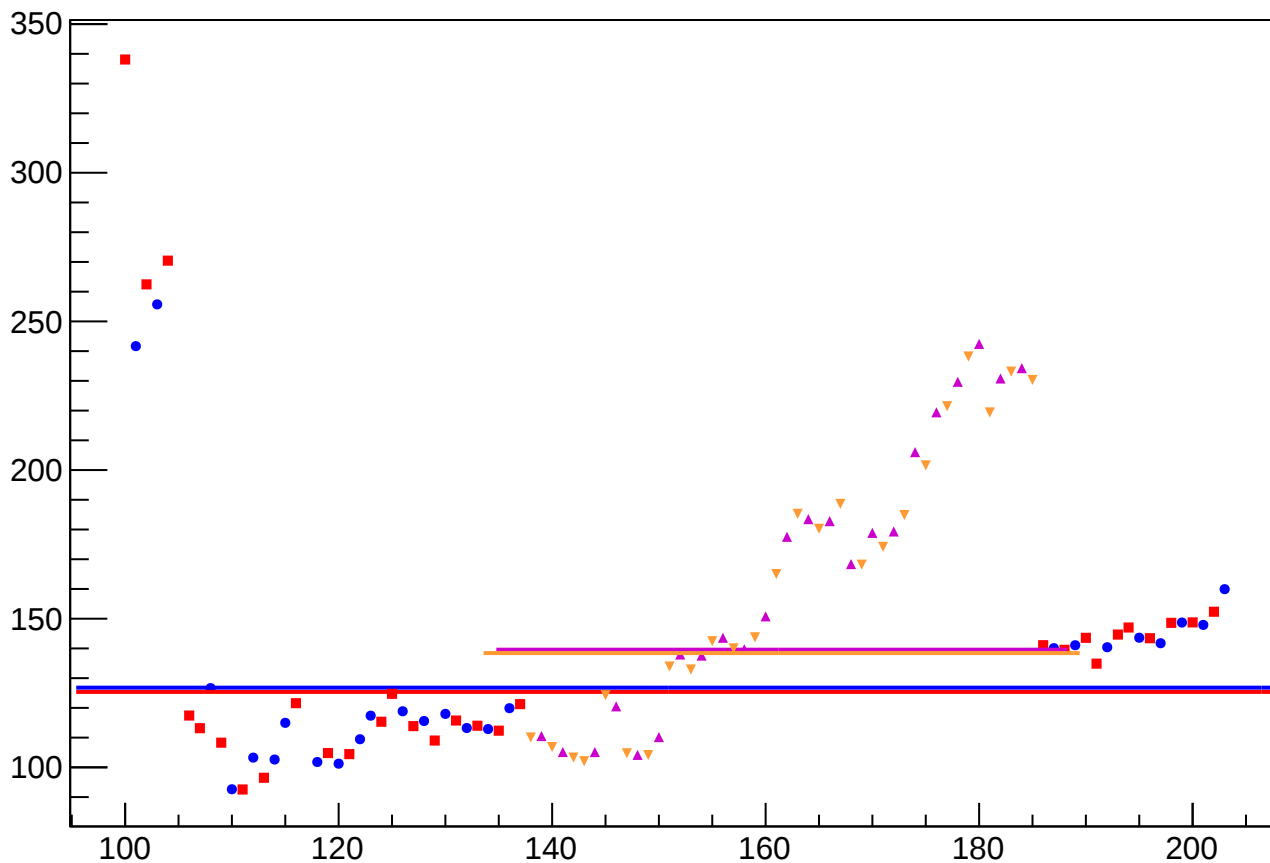
Right: 4115.800+/-25.805 χ^2/NDF : 176102.4/53

In: -1873.514+/-25.648 χ^2/NDF :121785.9/47

Out: -237.658+/-24.410 χ^2/NDF :199084.3/53

All: -1015.163+/-17.682 χ^2/NDF : 323004.7/1

asym_bpm1i02WS_rms vs Slug, Sign Corrected



Right In: 126.806+/-0.027 χ^2/NDF : 1057771.1/24

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

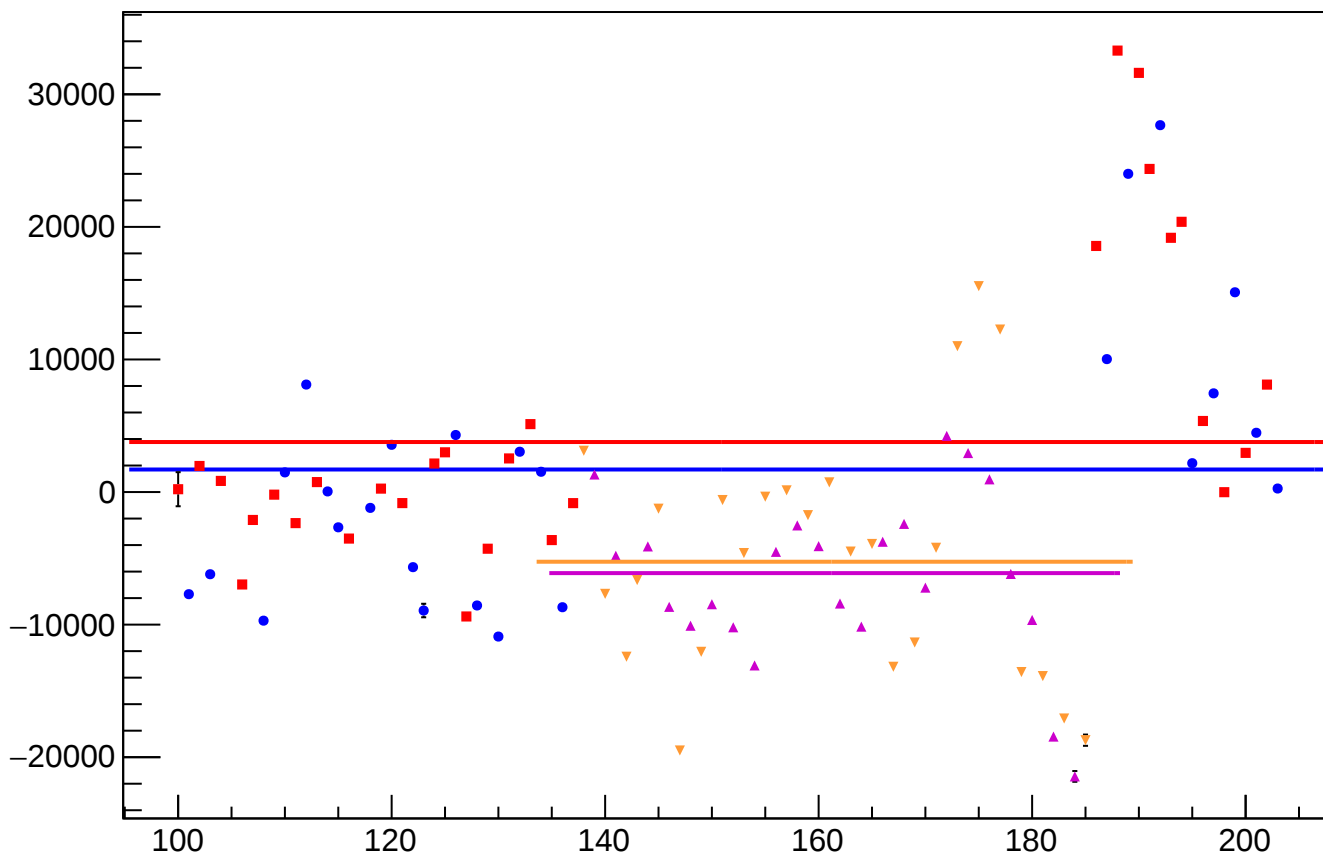
Right: 126.046+/-0.018 χ^2/NDF : 2237641.5/53

In: 133.665+/-0.018 χ^2/NDF : 3594729.9/47

Out: 132.226+/-0.017 χ^2/NDF : 3870566.7/53

All: 132.910+/-0.013 χ^2/NDF : 7468600.4/103

asym_bpm1i04WS_mean vs Slug, Sign Corrected



Right In: 1700.749+/-33.569

χ^2/NDF : 80344.2/24

Left Out: -5255.652+/-30.622

χ^2/NDF : 64324.6/24

Right Out: 3772.851+/-31.715

χ^2/NDF : 108088.4/28

Left In: -6114.901+/-32.126

χ^2/NDF : 21260.9/22

Left: -5664.697+/-22.166

χ^2/NDF : 85960.3/47

Right: 2795.594+/-23.053

χ^2/NDF : 190445.9/53

In: -2378.666+/-23.210

χ^2/NDF : 129899.2/47

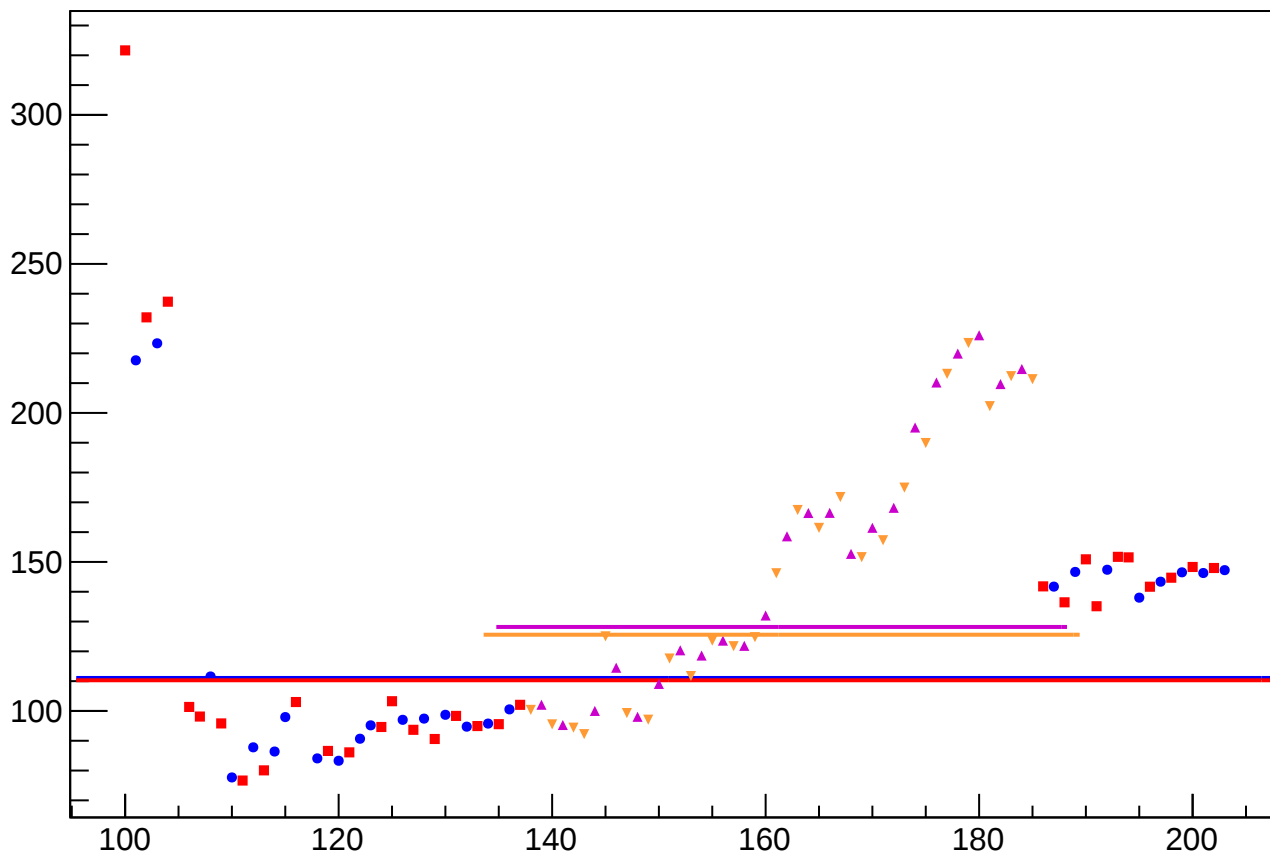
Out: -899.626+/-22.029

χ^2/NDF : 214354.2/53

All: -1600.580+/-15.978

χ^2/NDF : 346389.8/1

asym_bpm1i04WS_rms vs Slug, Sign Corrected



Right In: 111.067+/-0.024 χ^2/NDF : 1670476.7/24

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

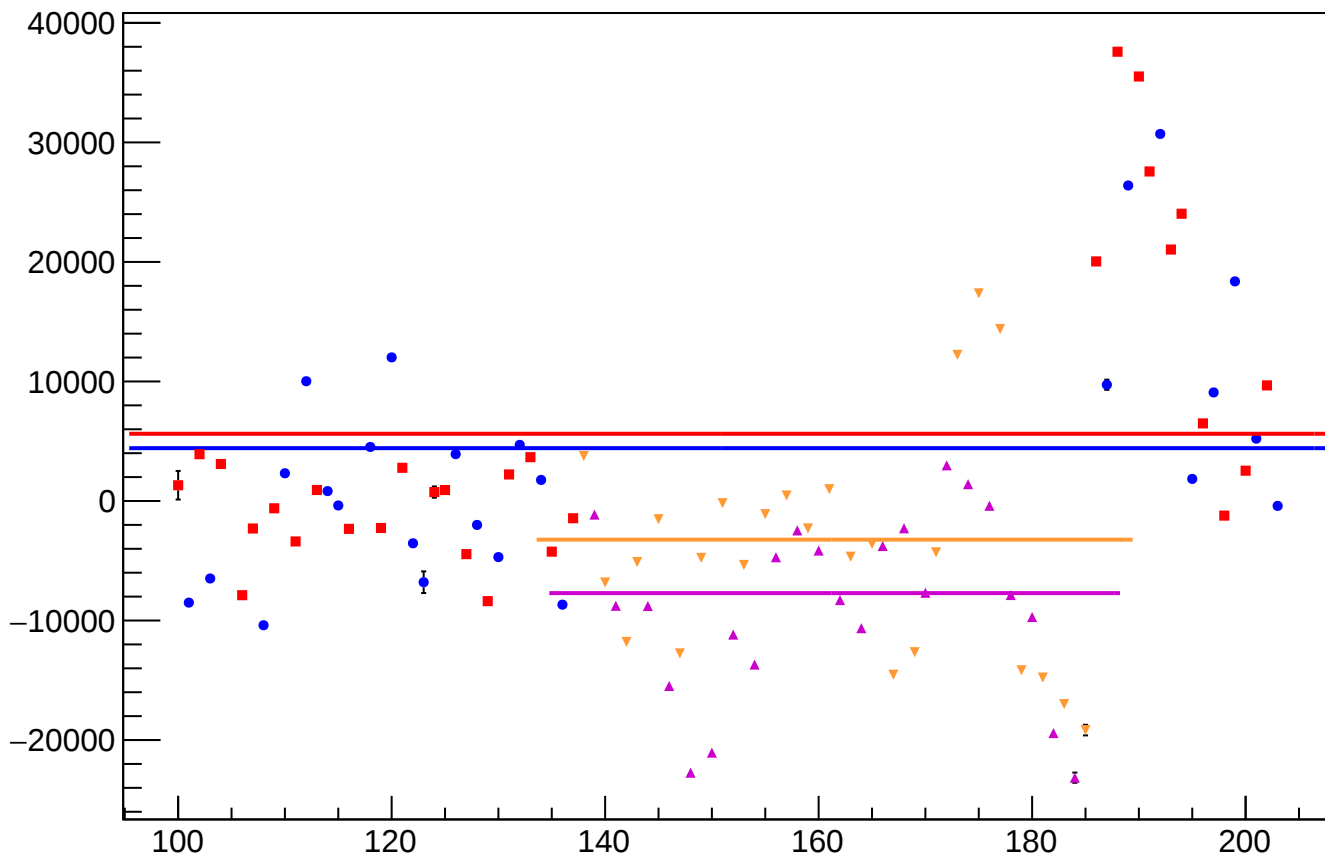
Right: 110.661+/-0.016 χ^2/NDF : 3593683.0/53

In: 120.001+/-0.016 χ^2/NDF :4274879.4/47

Out: 118.205+/-0.016 χ^2/NDF :4758638.6/53

All: 119.056+/-0.011 χ^2/NDF : 9039814.5/101

asym_bpm1i06WS_mean vs Slug, Sign Corrected



Right In: 4419.047+/-44.596 χ^2/NDF : 58347.3/24

Left Out: -3234.922+/-40.583 χ^2/NDF : 36739.9/24

Right Out: 5624.461+/-41.987 χ^2/NDF : 90356.1/28

Left In: -7707.068+/-42.990 χ^2/NDF : 21268.3/22

Left: -5342.284+/-29.511 χ^2/NDF : 63730.6/47

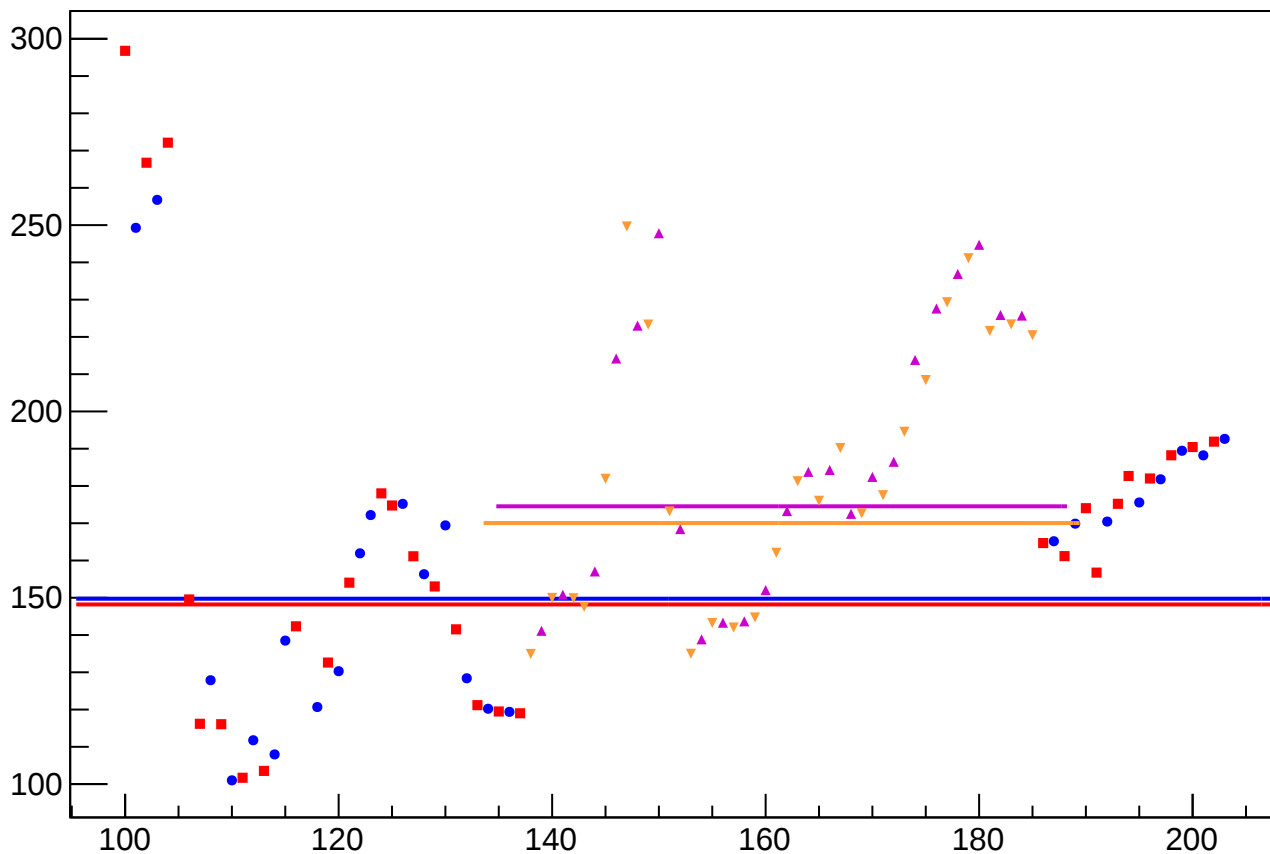
Right: 5058.038+/-30.570 χ^2/NDF : 149090.7/53

In: -1866.276+/-30.951 χ^2/NDF : 117938.7/47

Out: 1044.100+/-29.180 χ^2/NDF : 150114.0/53

All: -325.473+/-21.232 χ^2/NDF : 272733.9/100

asym_bpm1i06WS_rms vs Slug, Sign Corrected



Right In: 149.745+/-0.032 χ^2/NDF : 1289559.8/24

Left Out: 170.050+/-0.029 χ^2/NDF :1240866.9/24

Right Out: 148.205+/-0.030 χ^2/NDF : 1445858.2/28

Left In: 174.539+/-0.030 χ^2/NDF :1210071.2/22

Left: 172.165+/-0.021 χ^2/NDF : 2462472.2/47

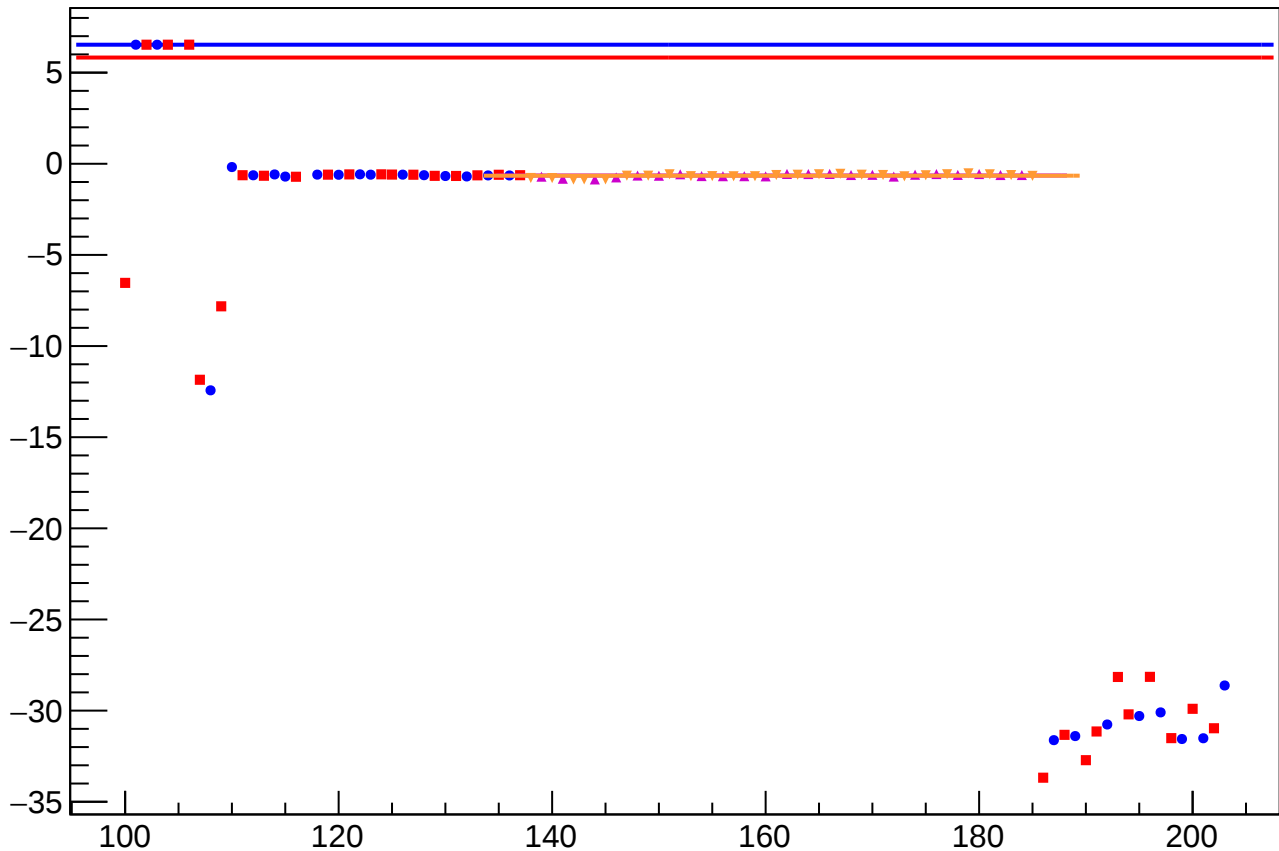
Right: 148.929+/-0.022 χ^2/NDF : 2736682.3/53

In: 162.597+/-0.022 χ^2/NDF :2820059.5/47

Out: 159.499+/-0.021 χ^2/NDF :2966599.0/53

All: 160.957+/-0.015 χ^2/NDF : 5797265.4/103

yield_cav4bX_mean vs Slug, Sign Corrected



Right In: 6.532+/-0.000 χ^2/NDF : 127930423867.0/24

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

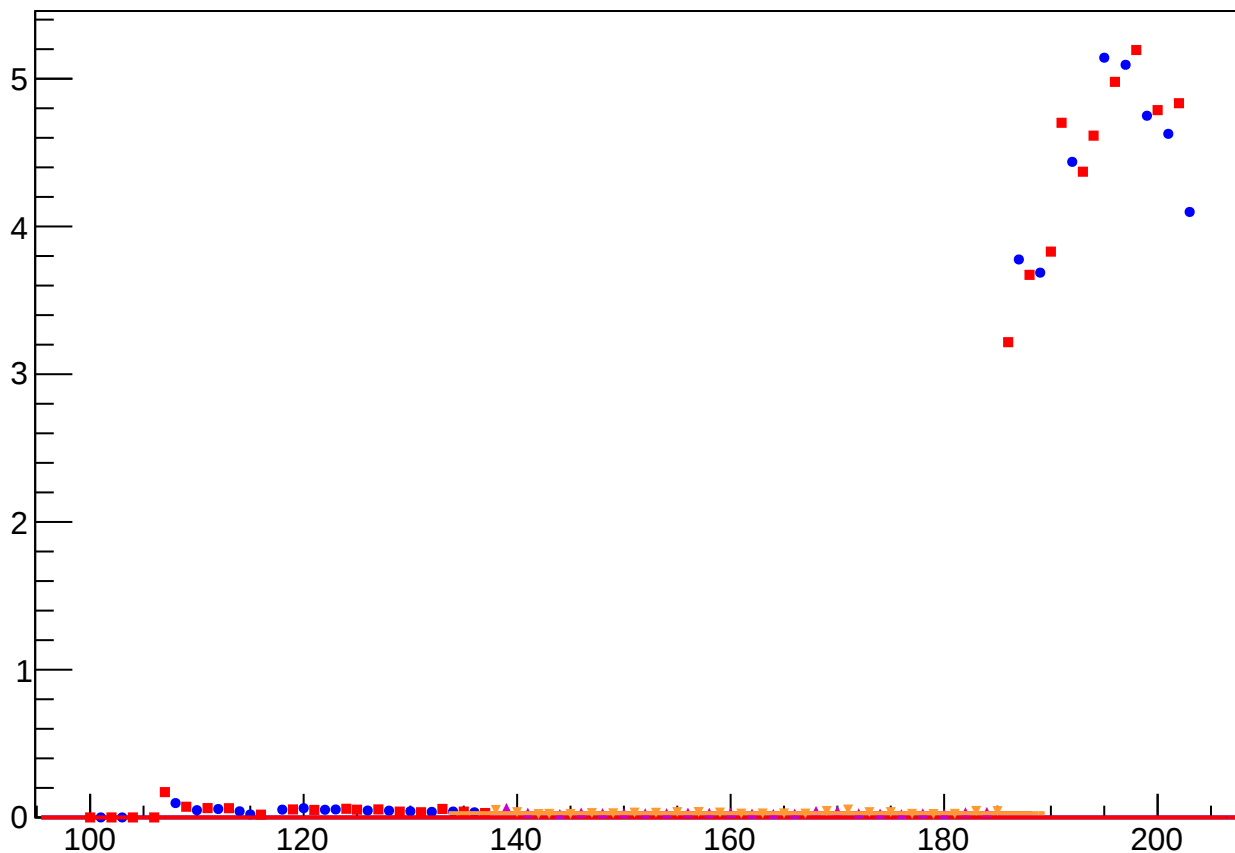
Right: 6.155+/-0.000 χ^2/NDF : 776078852845922.0/47

In: 6.530+/-0.000 χ^2/NDF : 953277811749.1/47

Out: 5.826+/-0.000 χ^2/NDF : 756656783238340.2/47

All: 6.153+/-0.000 χ^2/NDF : 77760222259953.0/94

yield_cav4bX_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 19738708.2/24

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

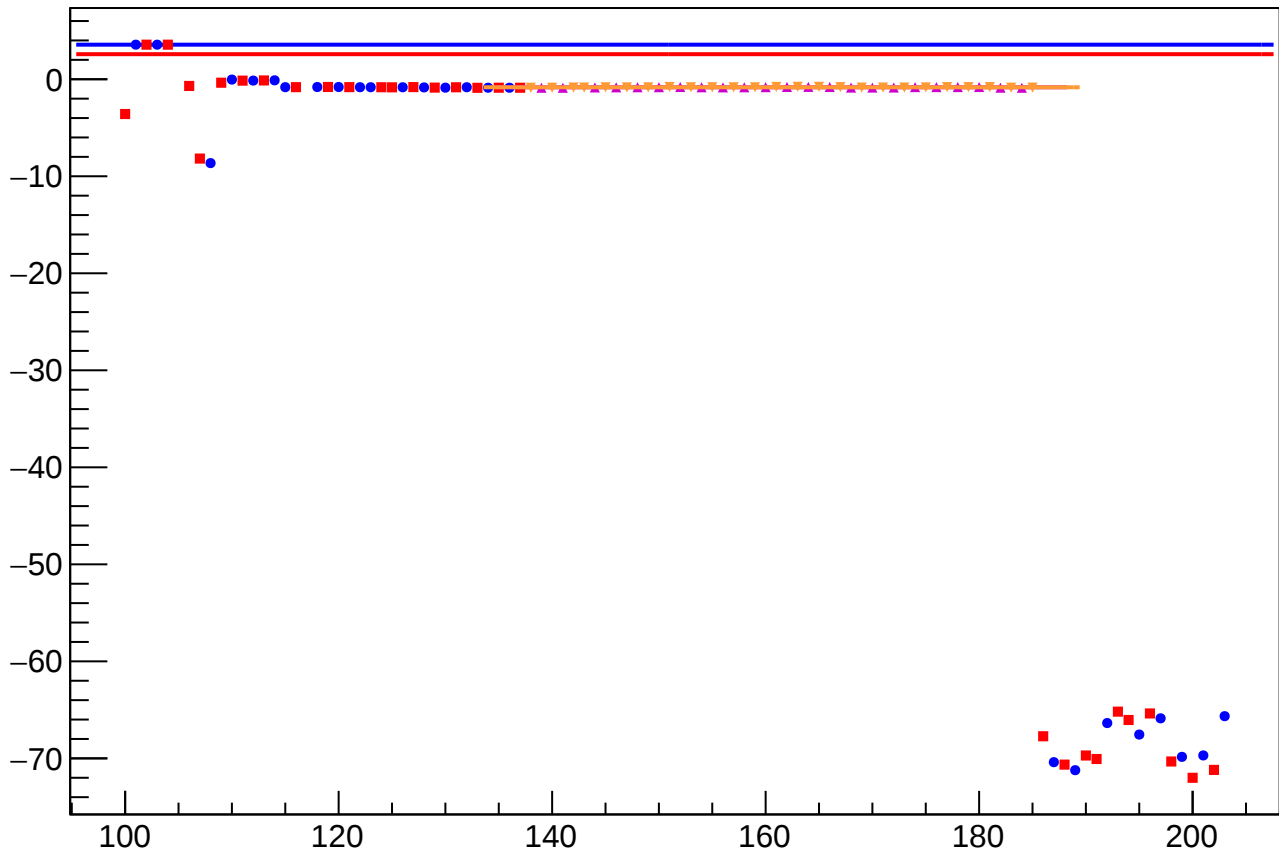
Right: 0.000+/-0.000 χ^2/NDF : 41520275.8/53

In: 0.000+/-0.000 χ^2/NDF :47700385.0/47

Out: 0.000+/-0.000 χ^2/NDF :51656988.0/53

All: 0.000+/-0.000 χ^2/NDF : 99357788.7/101

yield_cav4bY_mean vs Slug, Sign Corrected



Right In: 3.563+/-0.000 χ^2/NDF : 505909505126.7/24

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

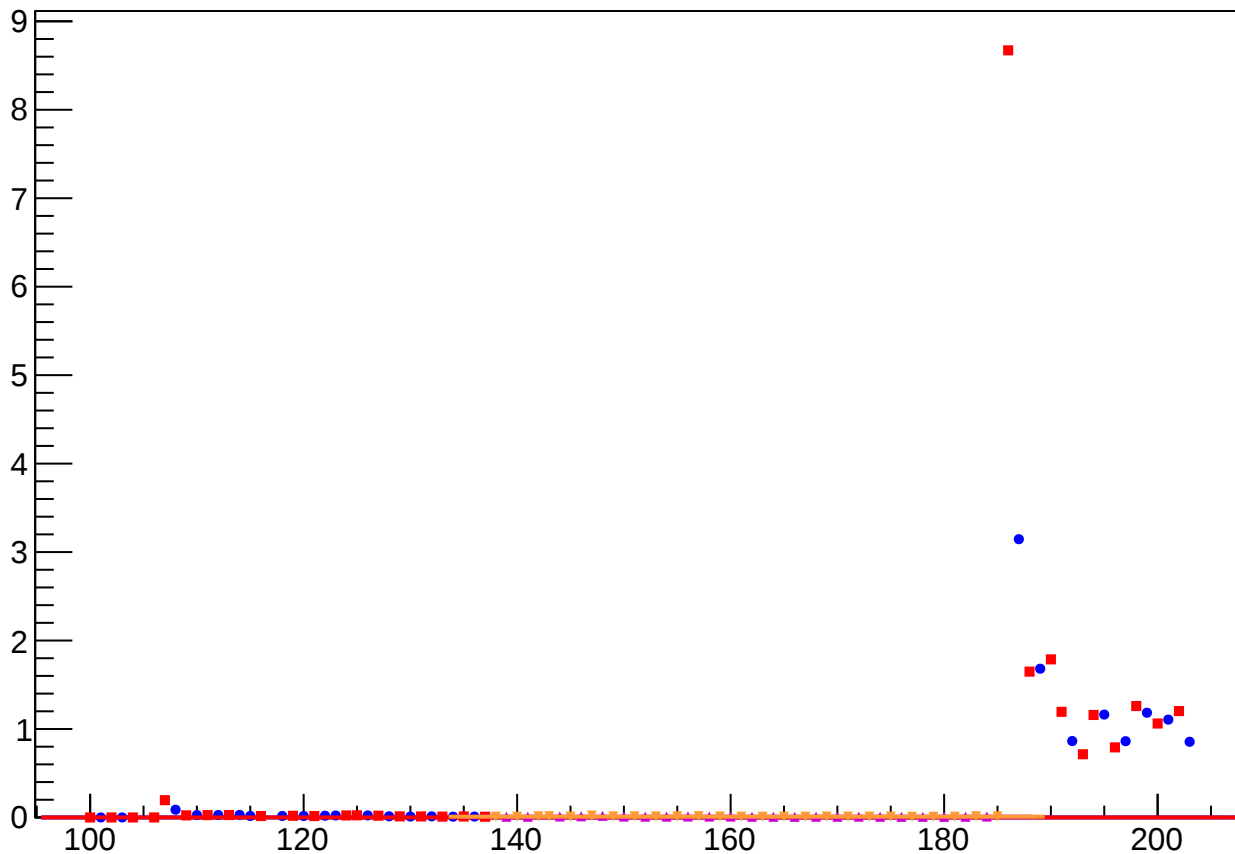
Right: 3.040+/-0.000 χ^2/NDF : 1382304177613376.5

In: 3.560+/-0.000 χ^2/NDF : 4151660974574.9/47

Out: 2.581+/-0.000 χ^2/NDF : 1255749425634962.5

All: 3.038+/-0.000 χ^2/NDF : 13879906498939

yield_cav4bY_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 18561608.9/24

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

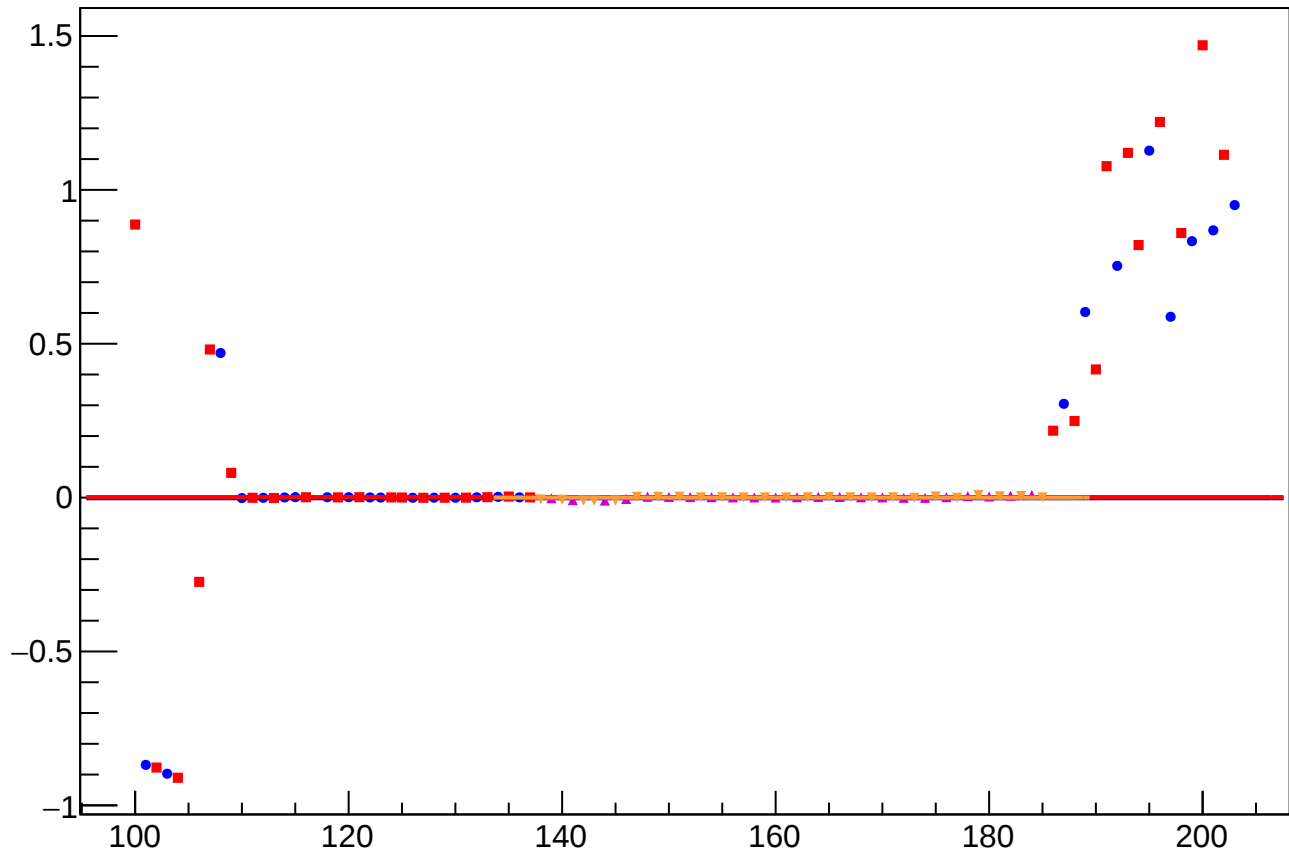
Right: 0.000+/-0.000 χ^2/NDF : 38998011.1/53

In: 0.000+/-0.000 χ^2/NDF :48097654.6/47

Out: 0.000+/-0.000 χ^2/NDF :51854728.2/53

All: 0.000+/-0.000 χ^2/NDF : 99953137.9/101

yield_cav4cX_mean vs Slug, Sign Corrected



Right In: -0.002+/-0.000 χ^2/NDF : 9796767422.0/24

Left Out: -0.000+/-0.000 χ^2/NDF : 151482851.1/24

Right Out: 0.002+/-0.000 χ^2/NDF : 3043214276.9/28

Left In: 0.001+/-0.000 χ^2/NDF : 101439617.3/22

Left: 0.000+/-0.000 χ^2/NDF : 254436385.6/47

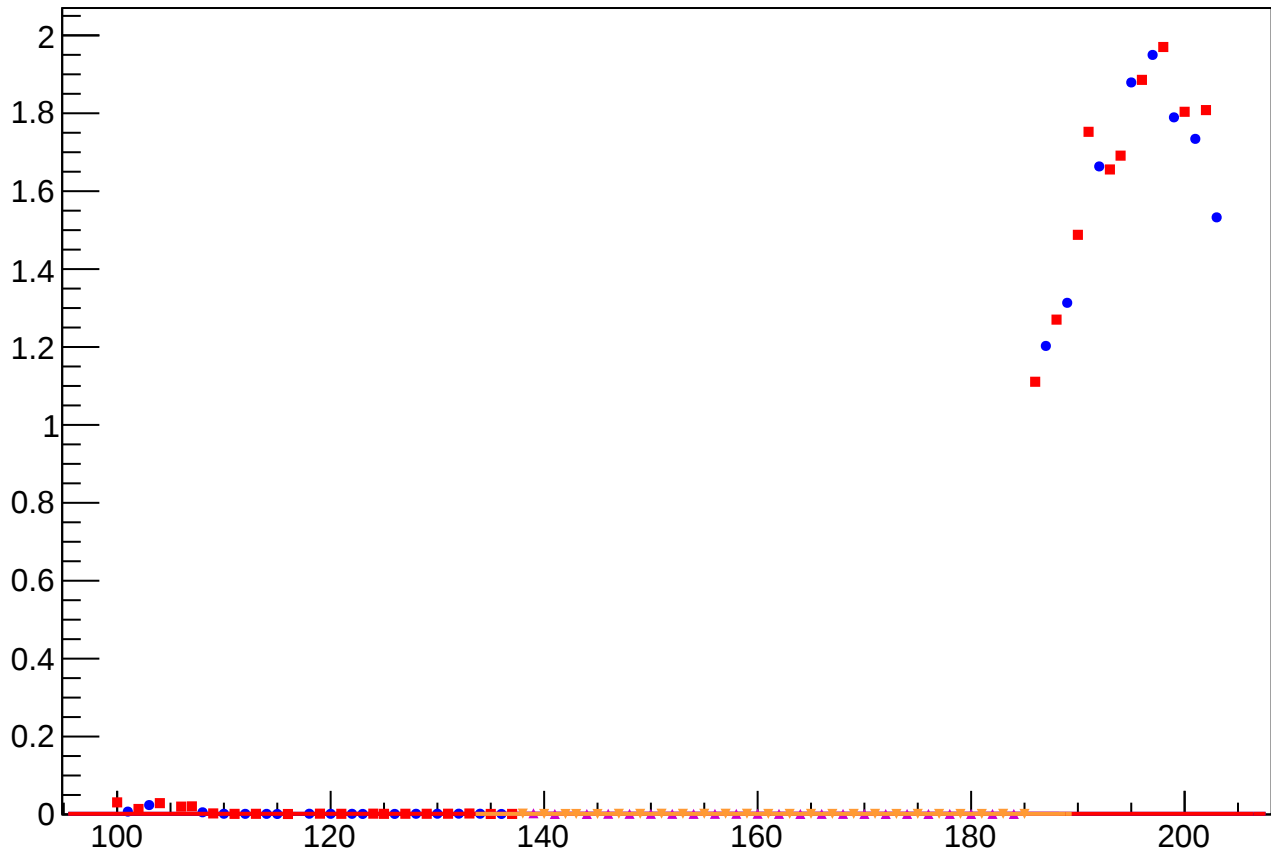
Right: -0.000+/-0.000 χ^2/NDF : 12853750538.6/53

In: -0.000+/-0.000 χ^2/NDF : 9909219917.8/47

Out: 0.000+/-0.000 χ^2/NDF : 3199429235.0/53

All: 0.000+/-0.000 χ^2/NDF : 13108986172.8/100

yield_cav4cX_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 12613126.5/24

Left Out: 0.001+/-0.000 χ^2/NDF : 539817.3/24

Right Out: 0.002+/-0.000 χ^2/NDF : 15427096.3/28

Left In: 0.001+/-0.000 χ^2/NDF : 626044.8/22

Left: 0.001+/-0.000 χ^2/NDF : 1169603.9/47

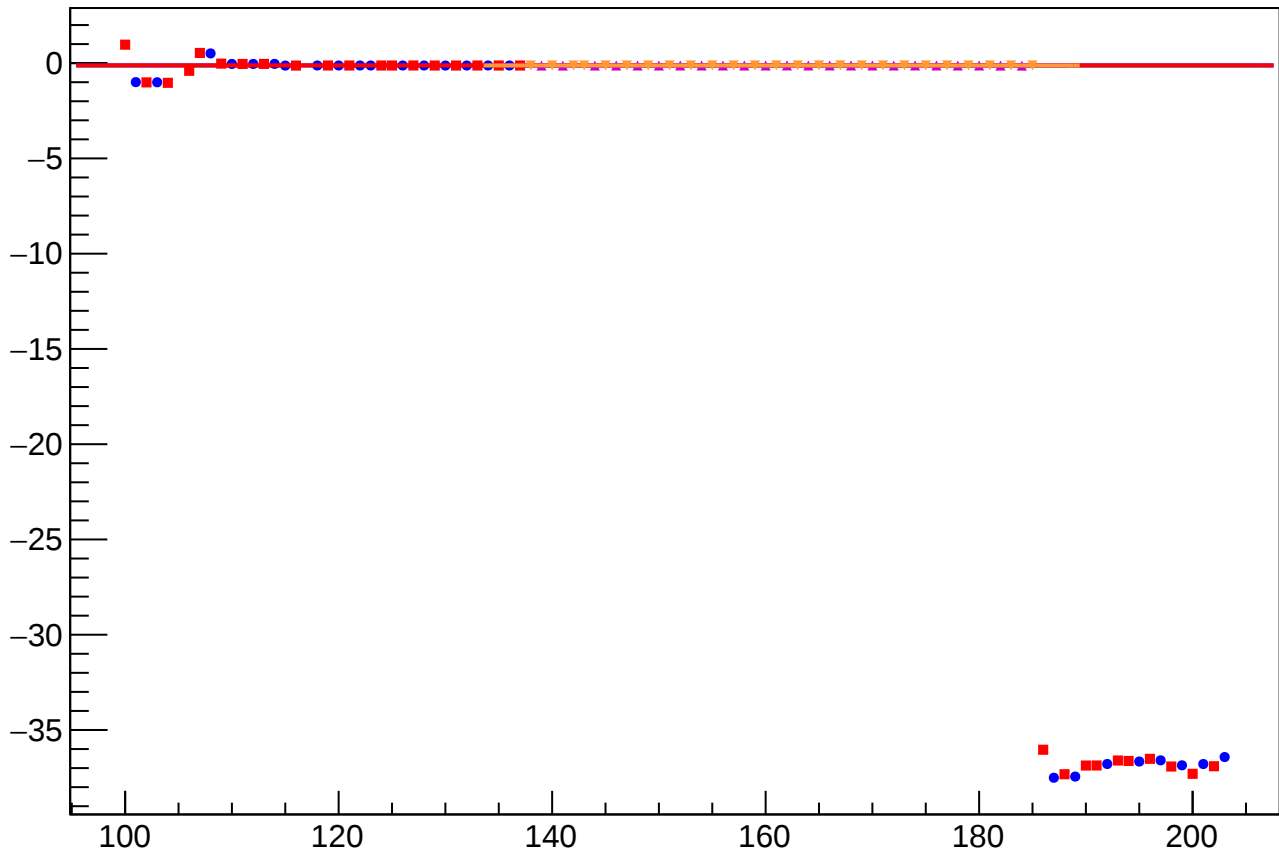
Right: 0.002+/-0.000 χ^2/NDF : 28048734.0/53

In: 0.002+/-0.000 χ^2/NDF : 13290455.6/47

Out: 0.002+/-0.000 χ^2/NDF : 16105265.3/53

All: 0.002+/-0.000 χ^2/NDF : 29396630.1/101

yield_cav4cY_mean vs Slug, Sign Corrected



Right In: -0.121+/-0.000 χ^2/NDF : 50551635331.4/24

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

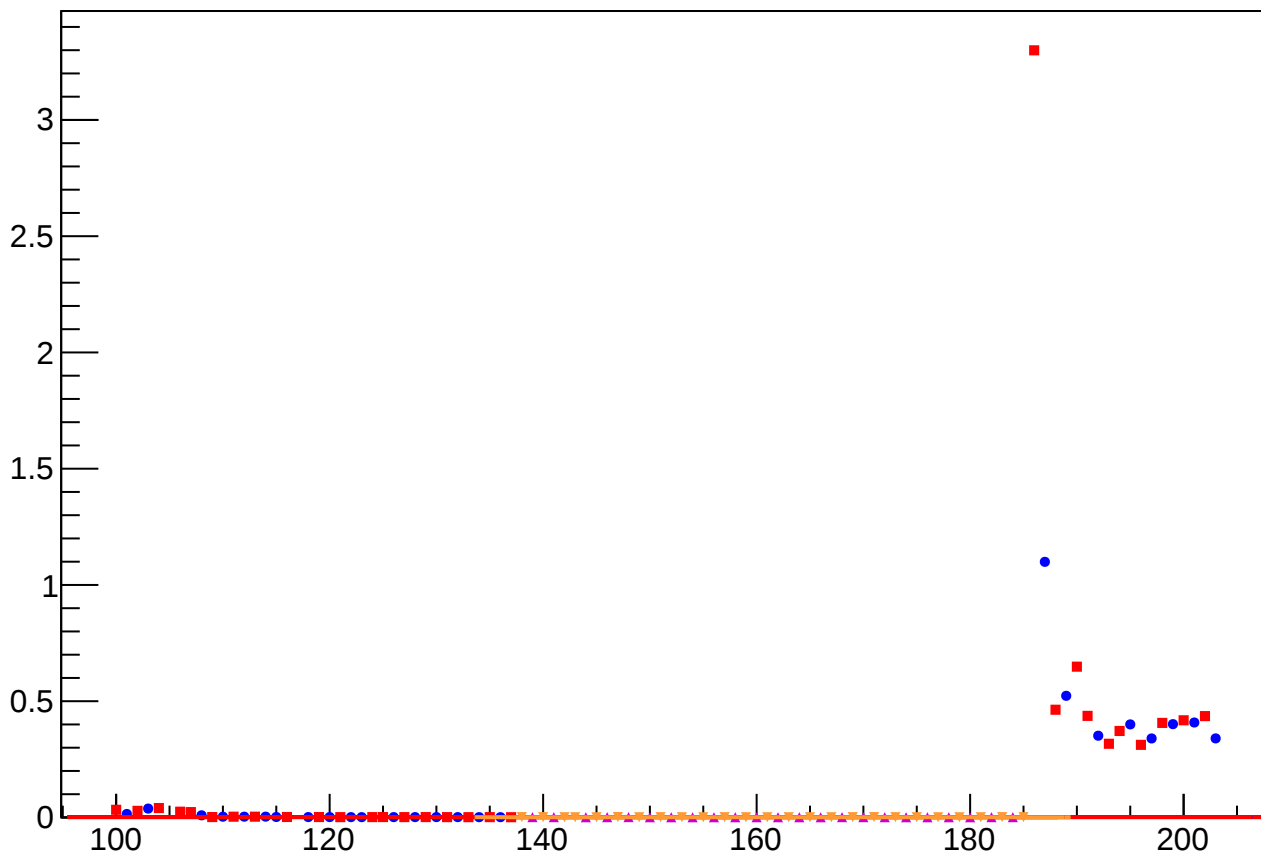
Right: -0.119+/-0.000 χ^2/NDF : 103620740361.4/53

In: -0.121+/-0.000 χ^2/NDF : 50603765156.7/47

Out: -0.121+/-0.000 χ^2/NDF : 53146655243.8/53

All: -0.121+/-0.000 χ^2/NDF : 103751368017.4

yield_cav4cY_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 13071718.8/24

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

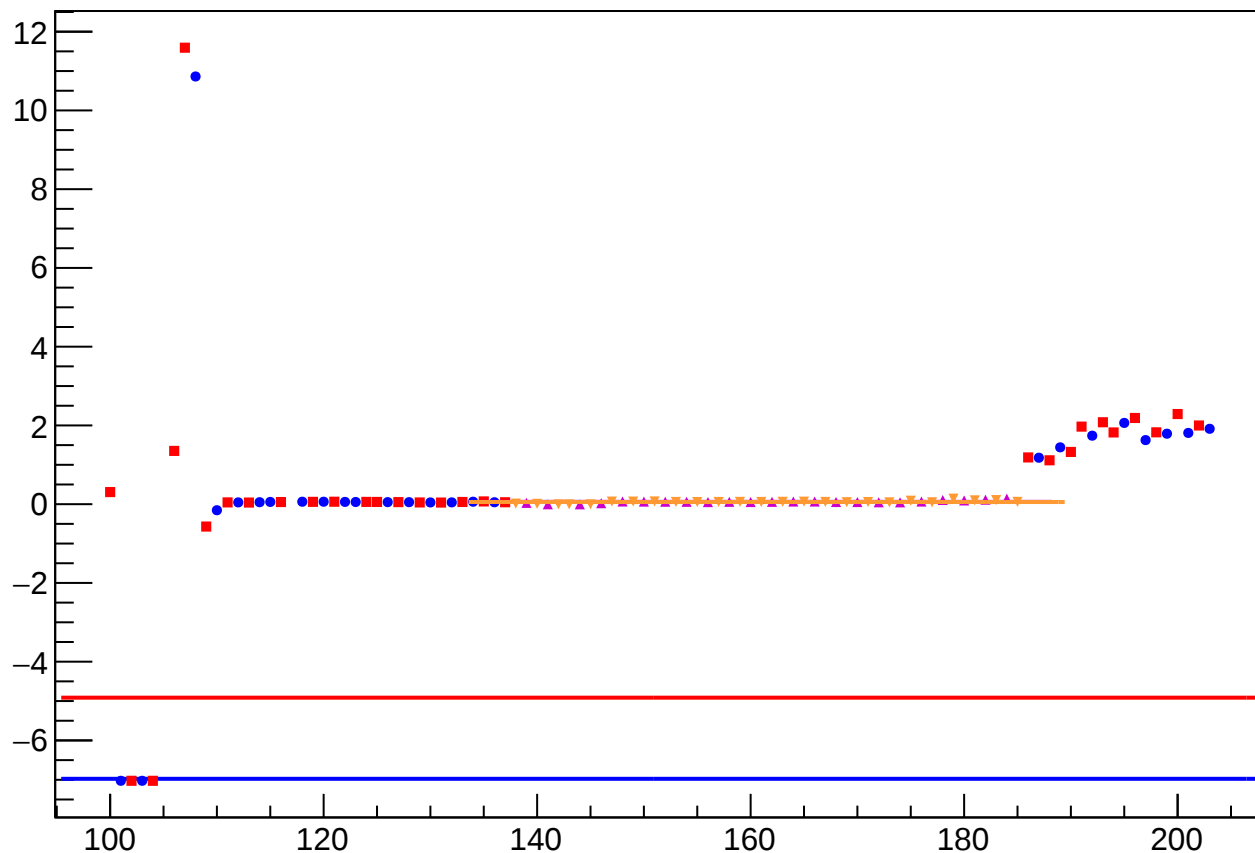
Right: 0.002+/-0.000 χ^2/NDF : 28501361.7/53

In: 0.001+/-0.000 χ^2/NDF :15210044.1/47

Out: 0.001+/-0.000 χ^2/NDF :17966181.7/53

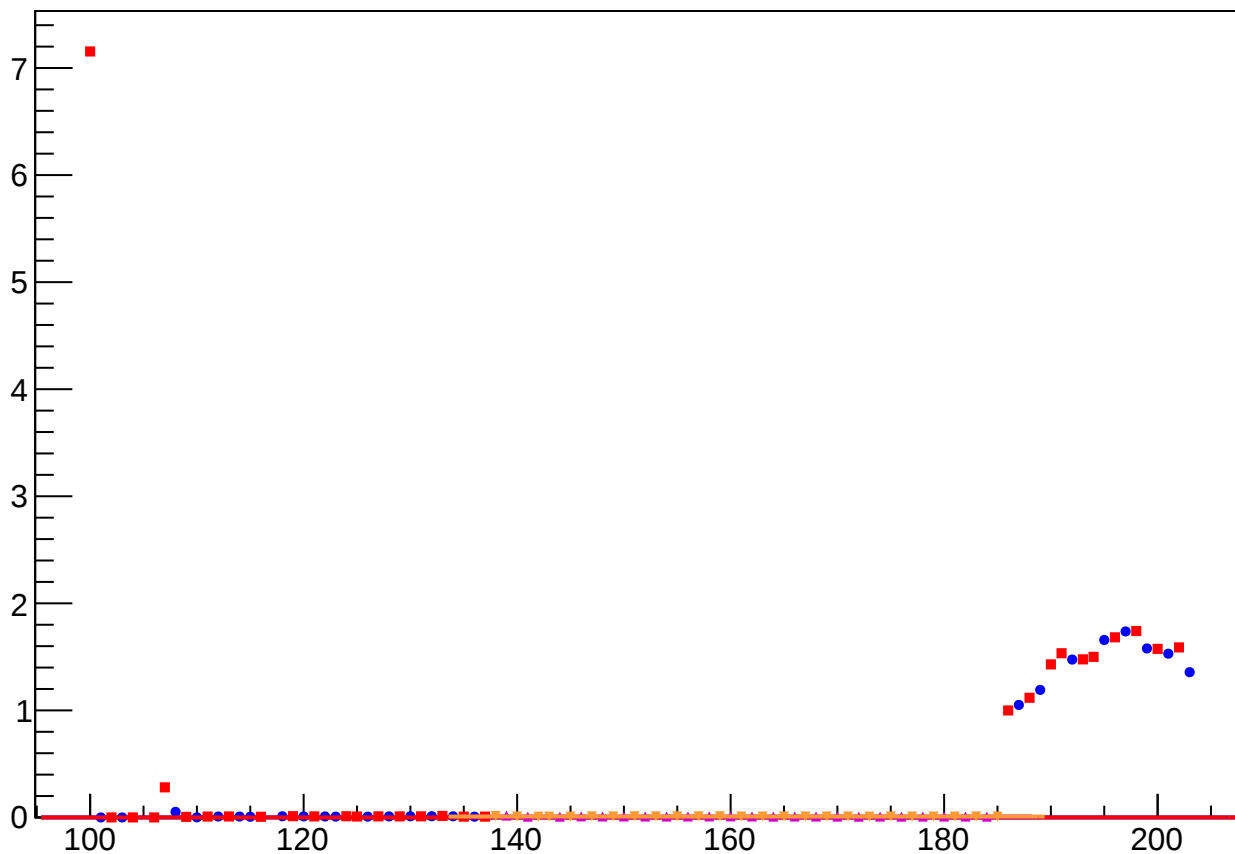
All: 0.001+/-0.000 χ^2/NDF : 33178778.6/101

yield_cav4dX_mean vs Slug, Sign Corrected



Right In: -6.975 ± 0.000 $\chi^2/\text{NDF}: 8797545165953.8/24$ 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 $\chi^2/\text{NDF}: 430333587586191.1$
 Right Out: -4.914 ± 0.000 $\chi^2/\text{NDF}: 365352790672801.2/28$ In: -6.926 ± 0.000 $\chi^2/\text{NDF}: 17553063513003.8/47$
 Left In: 0.059 ± 0.000 $\chi^2/\text{NDF}: 178541521.9/22$ Out: -4.879 ± 0.000 $\chi^2/\text{NDF}: 370165354006961.0$
 All: -5.858 ± 0.000 $\chi^2/\text{NDF}: 4435288785317$

yield_cav4dX_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 19061958.7/24

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

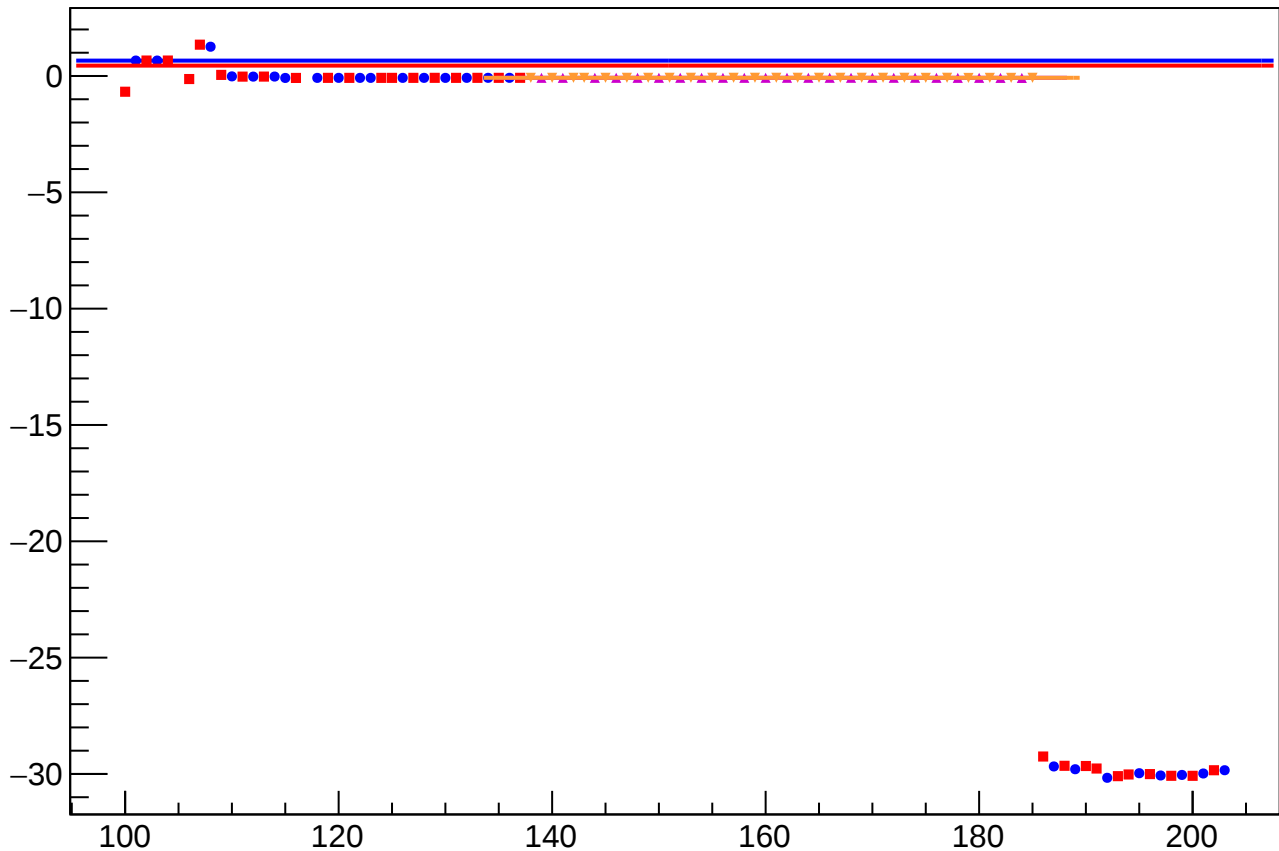
Right: 0.000+/-0.000 χ^2/NDF : 40270909.8/53

In: 0.000+/-0.000 χ^2/NDF : 46480060.4/47

Out: 0.000+/-0.000 χ^2/NDF : 50152872.6/53

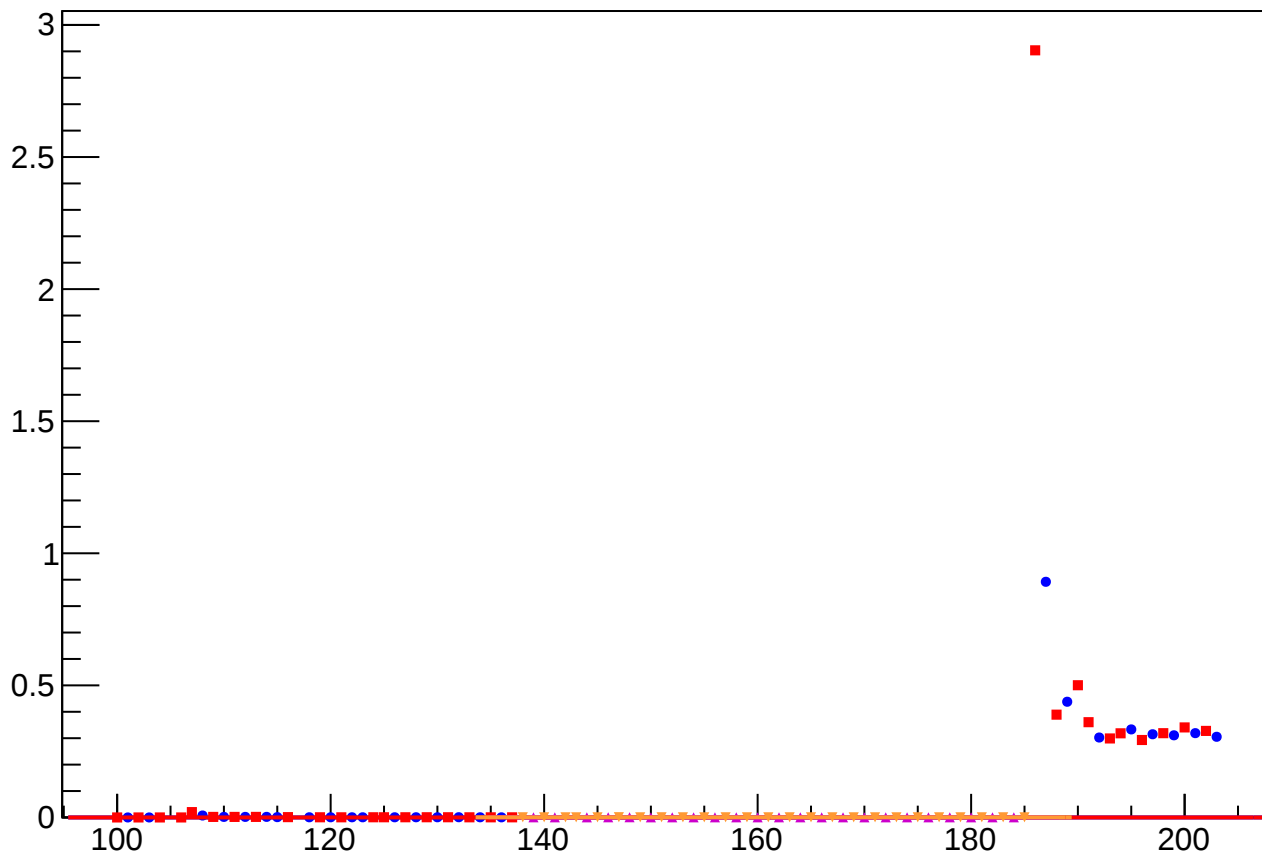
All: 0.000+/-0.000 χ^2/NDF : 96633398.2/101

yield_cav4dY_mean vs Slug, Sign Corrected



Right In: 0.661+/-0.000	χ^2/NDF : 5705923328916.2/24	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 : 474096346229885.2/47
Right Out: 0.446+/-0.000	χ^2/NDF : 405477150424129.6/28	In: 0.647+/-0.000	χ^2/NDF : 33746613624787.2/47
Left In: -0.077+/-0.000	χ^2/NDF : 110762924.1/22	Out: 0.436+/-0.000	χ^2/NDF : 420638236701082.9/5
		All: 0.537+/-0.000	χ^2/NDF : 51594075171663.2/100

yield_cav4dY_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 20524675.1/24

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

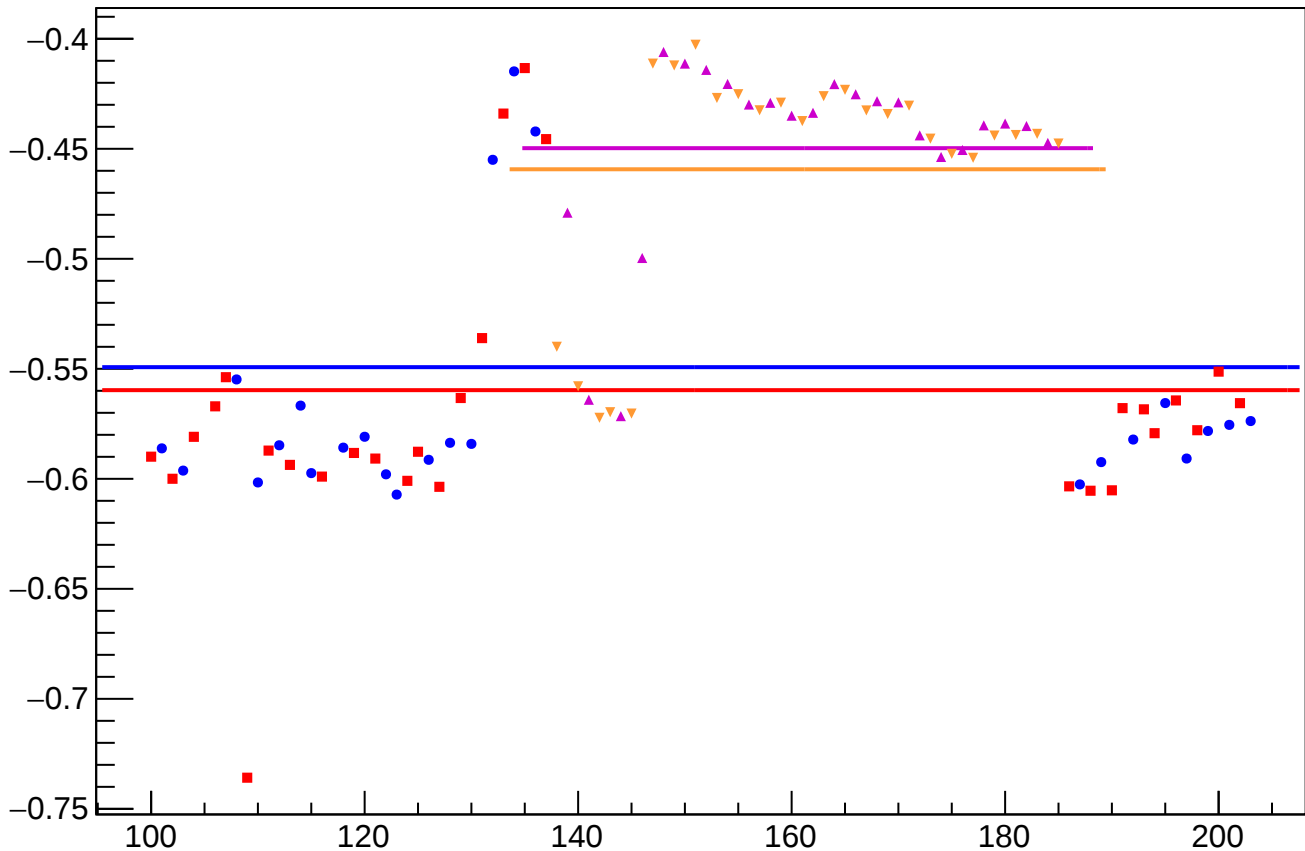
Right: 0.000+/-0.000 χ^2/NDF : 42237661.5/53

In: 0.000+/-0.000 χ^2/NDF : 51257120.6/47

Out: 0.000+/-0.000 χ^2/NDF : 54334274.5/53

All: 0.000+/-0.000 χ^2/NDF : 105591731.1/103

yield_bpm4aX_mean vs Slug, Sign Corrected



Right In: -0.549+/-0.000 χ^2/NDF : 47770362.5/24

Left Out: -0.459+/-0.000 χ^2/NDF : 113602161.0/24

Right Out: -0.560+/-0.000 χ^2/NDF : 65656900.9/28

Left In: -0.450+/-0.000 χ^2/NDF : 76117957.8/22

Left: -0.455+/-0.000 χ^2/NDF : 191493218.8/47

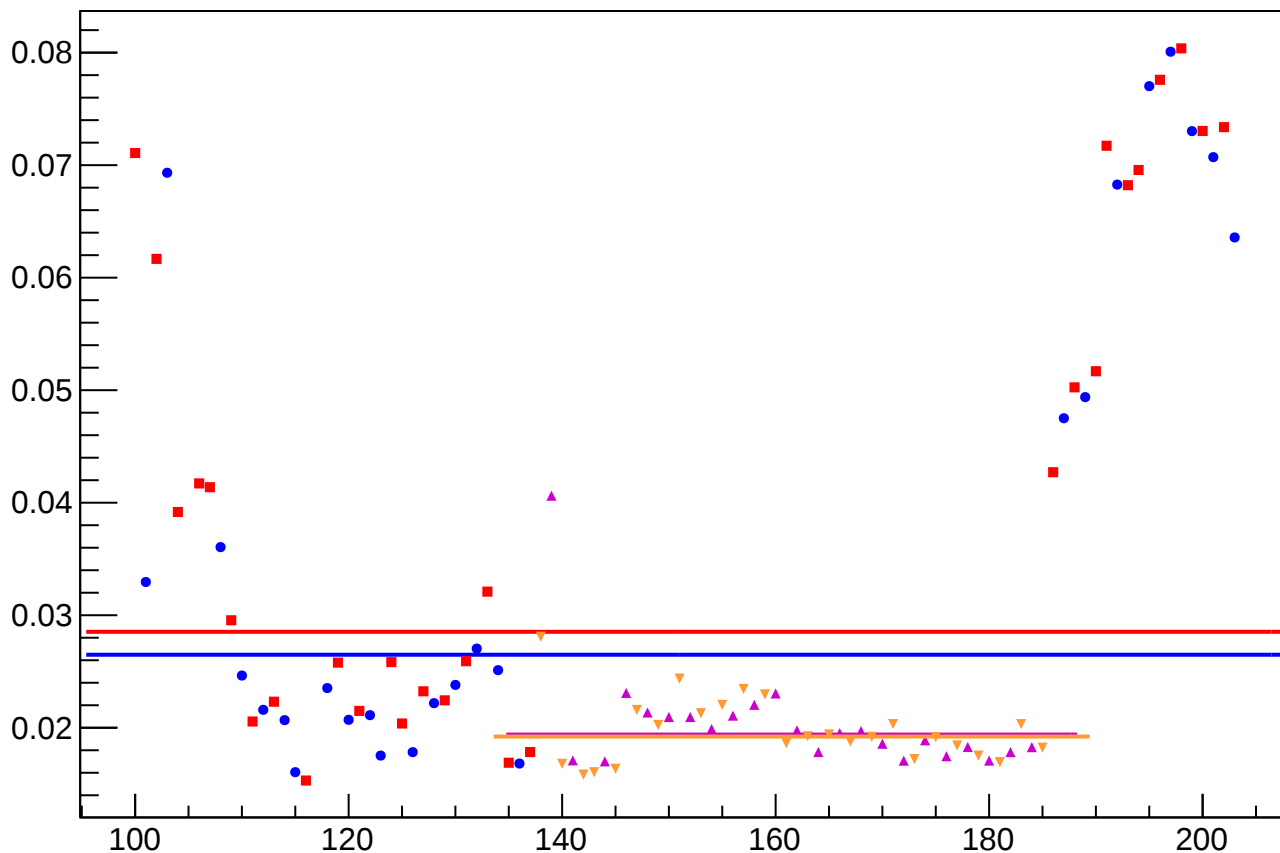
Right: -0.554+/-0.000 χ^2/NDF : 114057393.8/53

In: -0.474+/-0.000 χ^2/NDF : 212091508.6/47

Out: -0.481+/-0.000 χ^2/NDF : 268455750.9/53

All: -0.478+/-0.000 χ^2/NDF : 482078608.6/100

yield_bpm4aX_rms vs Slug, Sign Corrected



Right In: 0.026+/-0.000 χ^2/NDF : 5418418.9/24

Left Out: 0.019+/-0.000 χ^2/NDF : 501711.6/24

Right Out: 0.029+/-0.000 χ^2/NDF : 5726389.9/28

Left In: 0.019+/-0.000 χ^2/NDF : 626443.5/22

Left: 0.019+/-0.000 χ^2/NDF : 1129330.7/47

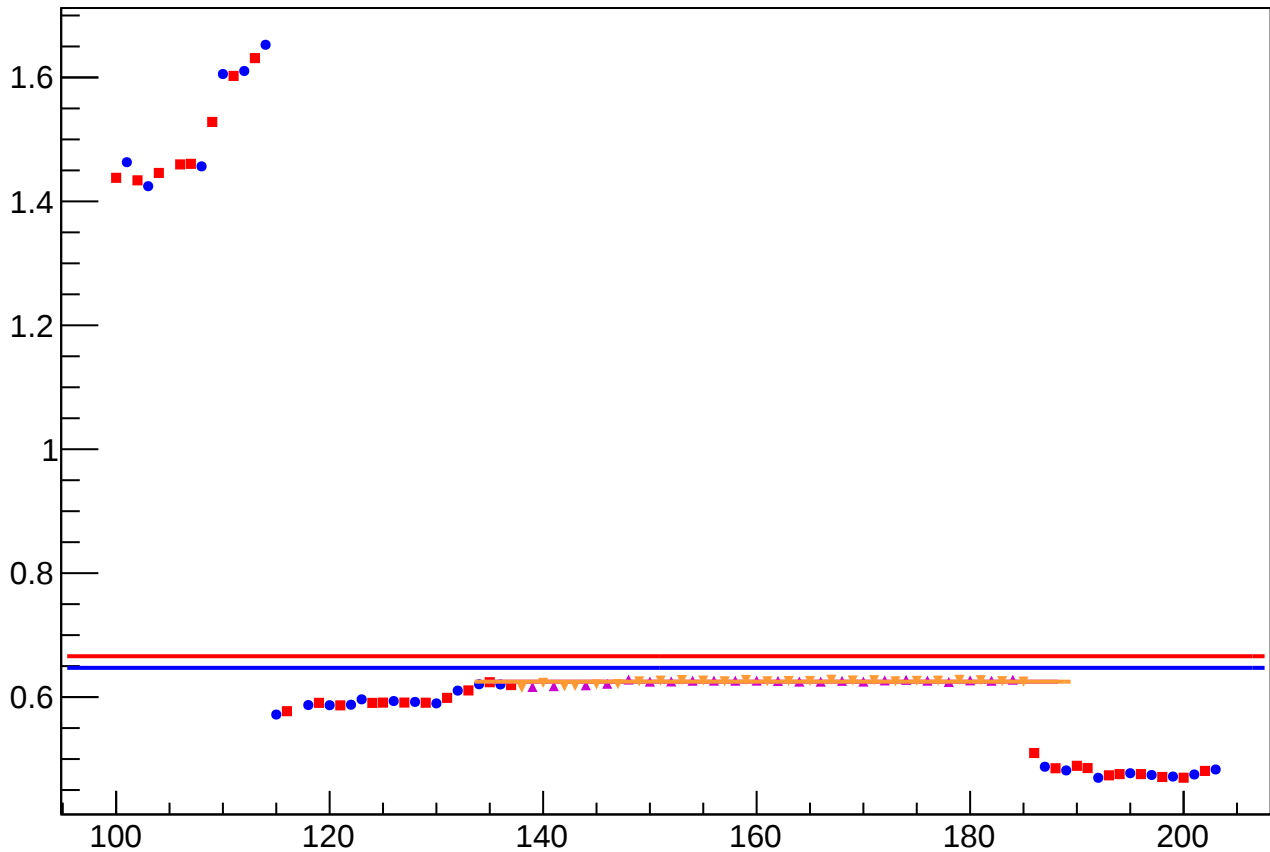
Right: 0.027+/-0.000 χ^2/NDF : 11192725.0/53

In: 0.021+/-0.000 χ^2/NDF : 6941542.1/47

Out: 0.021+/-0.000 χ^2/NDF : 7761942.0/53

All: 0.021+/-0.000 χ^2/NDF : 14704987.1/101

yield_bpm4aY_mean vs Slug, Sign Corrected



Right In: 0.647 $\pm$ 0.000 χ^2 /NDF: 4841792181.3/24

Left Out: 0.625 $\pm$ 0.000 χ^2 /NDF:1445169.1/24

Right Out: 0.666 $\pm$ 0.000 χ^2 /NDF: 5830911464.5/28

Left In: 0.625 $\pm$ 0.000 χ^2 /NDF:1143954.1/22

Left: 0.625 $\pm$ 0.000 χ^2 /NDF: 2589565.7/47

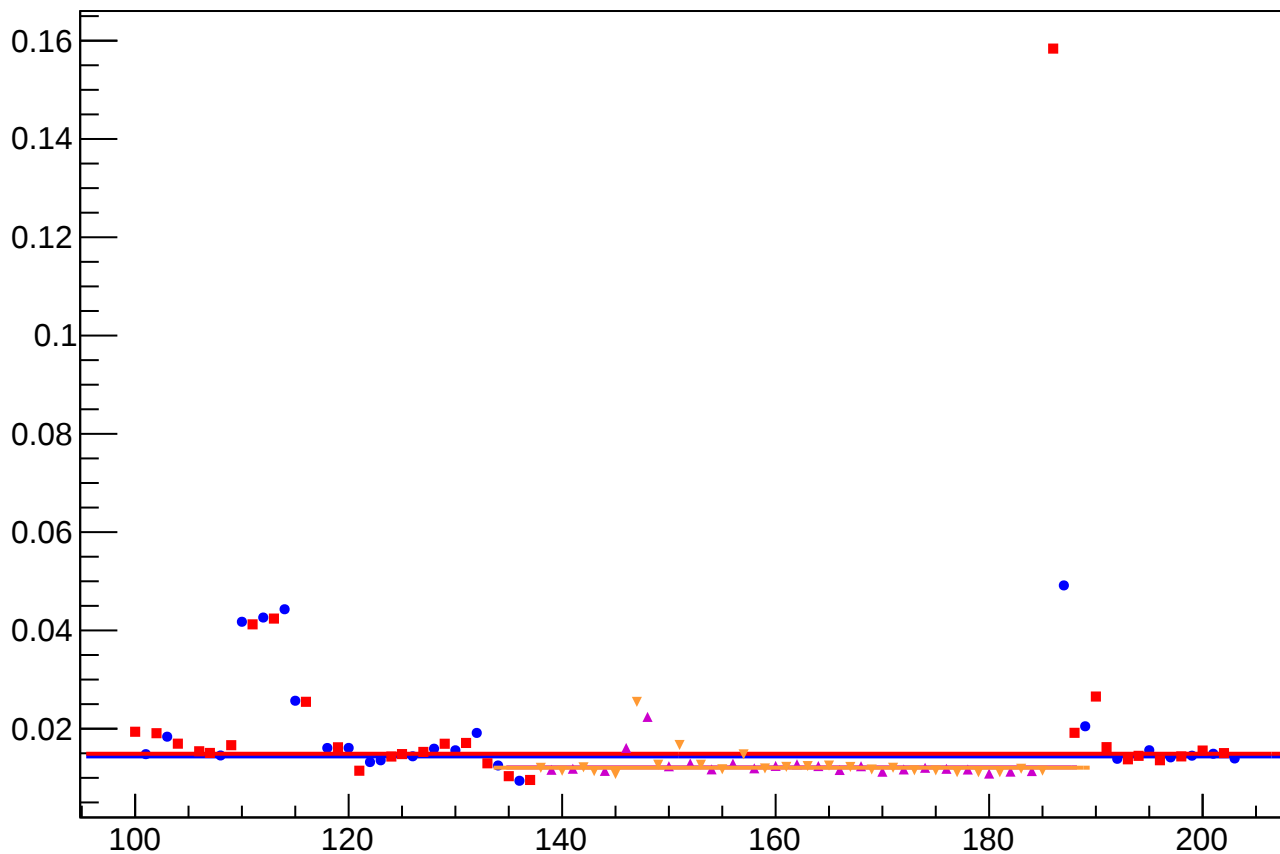
Right: 0.657 $\pm$ 0.000 χ^2 /NDF: 10681919208.7/53

In: 0.632 $\pm$ 0.000 χ^2 /NDF:4860835244.8/47

Out: 0.637 $\pm$ 0.000 χ^2 /NDF:5894056576.8/53

All: 0.635 $\pm$ 0.000 χ^2 /NDF: 10757407390.9/100

yield_bpm4aY_rms vs Slug, Sign Corrected



Right In: 0.014 $\pm$ 0.000 χ^2 /NDF: 1638303.2/24

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

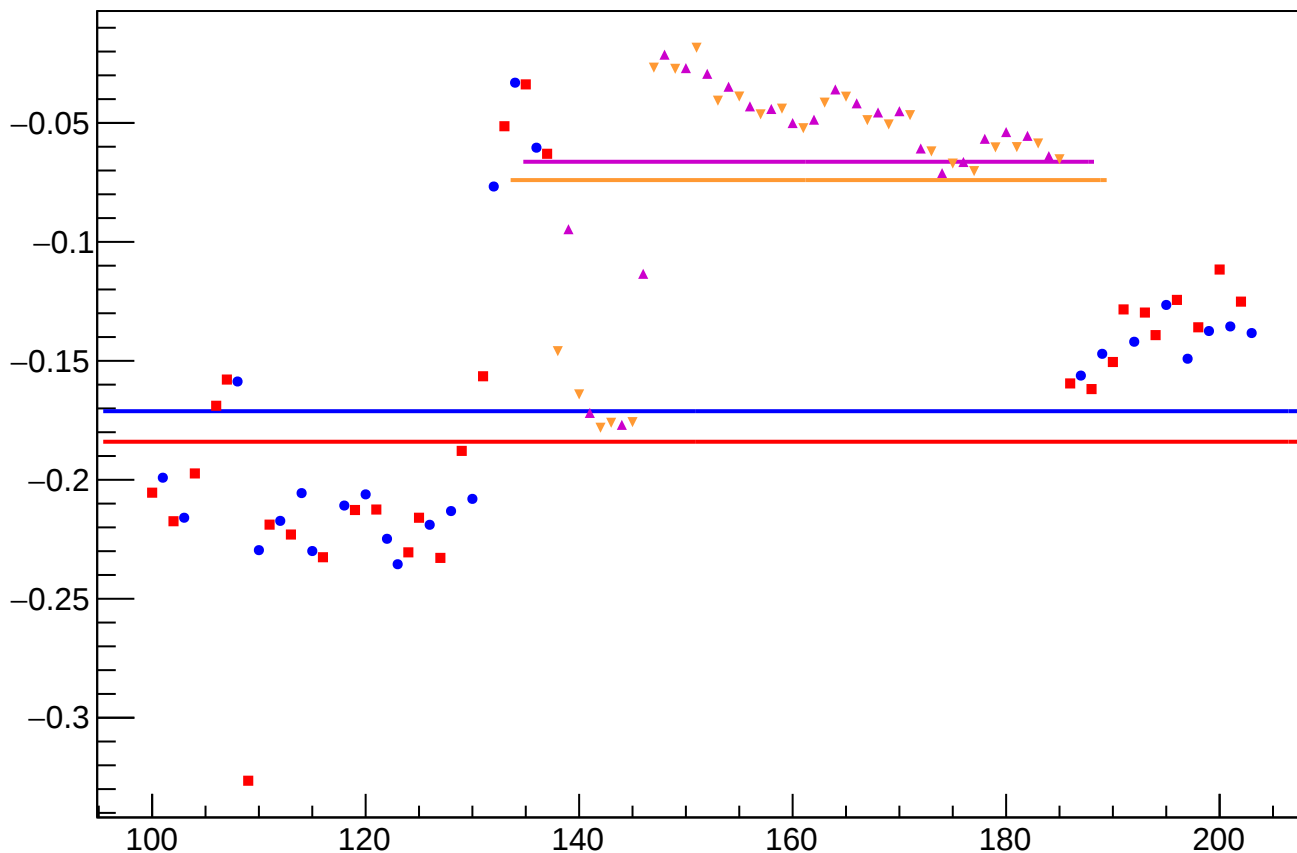
Right: 0.015 $\pm$ 0.000 χ^2 /NDF: 3731146.2/53

In: 0.013 $\pm$ 0.000 χ^2 /NDF:2482310.7/47

Out: 0.013 $\pm$ 0.000 χ^2 /NDF:3323734.7/53

All: 0.013 $\pm$ 0.000 χ^2 /NDF: 5807394.5/101

yield_bpm4eX_mean vs Slug, Sign Corrected



Right In: -0.171 ± 0.000 χ^2/NDF : 68133868.8/24

Left Out: -0.074 ± 0.000 χ^2/NDF : 107676601.9/24

Right Out: -0.184 ± 0.000 χ^2/NDF : 85678600.3/28

Left In: -0.066 ± 0.000 χ^2/NDF : 76243051.8/22

Left: -0.070 ± 0.000 χ^2/NDF : 185076997.5/47

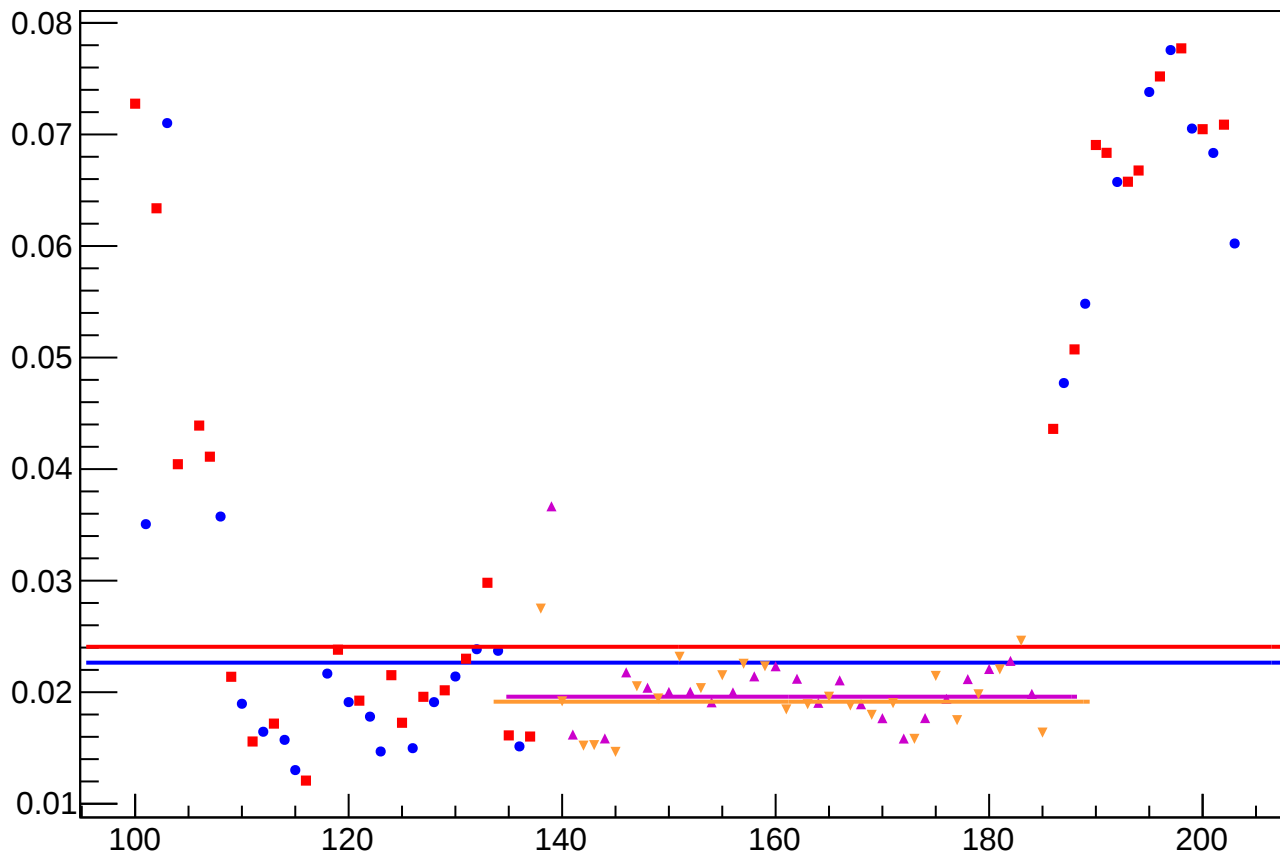
Right: -0.178 ± 0.000 χ^2/NDF : 155055695.5/53

In: -0.097 ± 0.000 χ^2/NDF : 263113622.6/47

Out: -0.103 ± 0.000 χ^2/NDF : 325816162.5/53

All: -0.100 ± 0.000 χ^2/NDF : 590068463.9/10

yield_bpm4eX_rms vs Slug, Sign Corrected



Right In: 0.023+/-0.000 χ^2/NDF : 6289471.5/24

Left Out: 0.019+/-0.000 χ^2/NDF : 641277.0/24

Right Out: 0.024+/-0.000 χ^2/NDF : 6954207.3/28

Left In: 0.020+/-0.000 χ^2/NDF : 623148.2/22

Left: 0.019+/-0.000 χ^2/NDF : 1272240.9/47

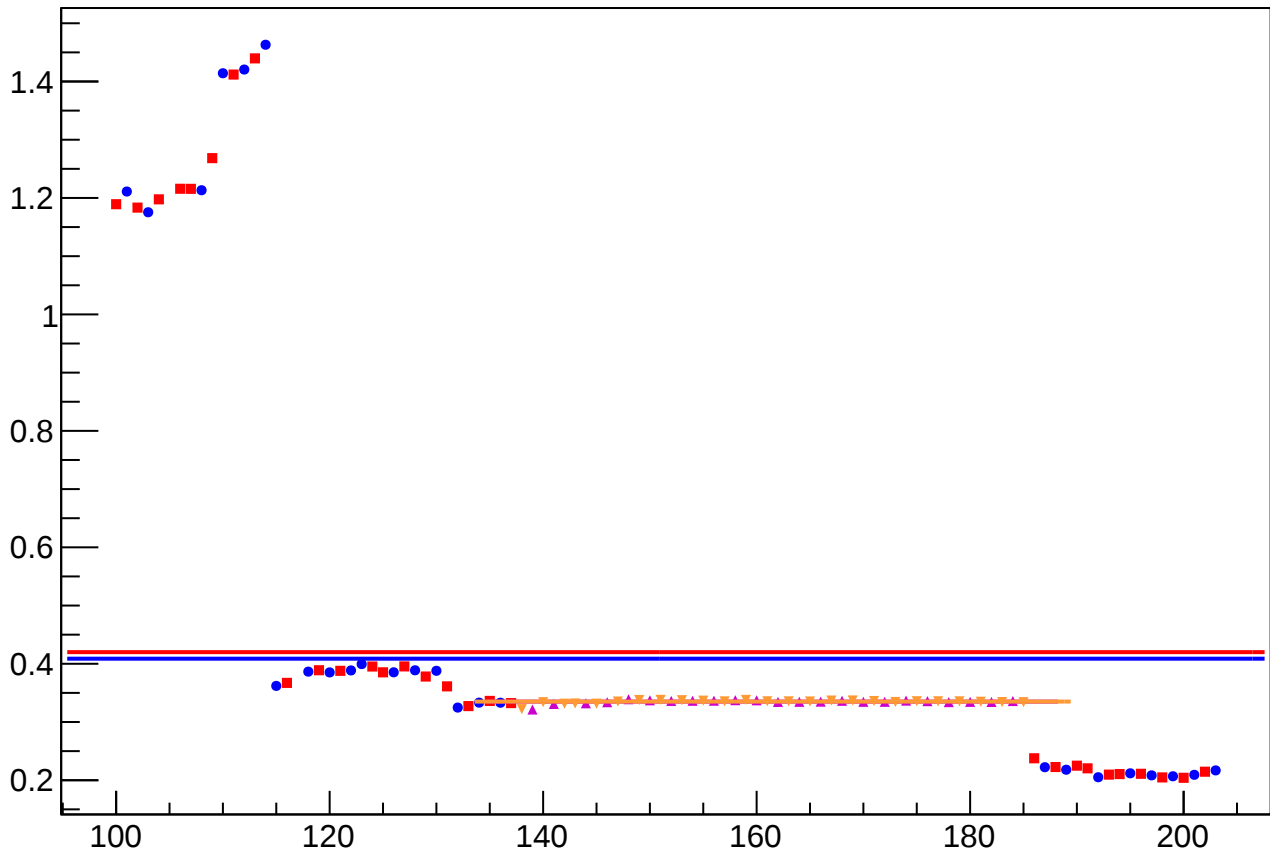
Right: 0.023+/-0.000 χ^2/NDF : 13274223.1/53

In: 0.020+/-0.000 χ^2/NDF : 7113776.4/47

Out: 0.020+/-0.000 χ^2/NDF : 8126121.2/53

All: 0.020+/-0.000 χ^2/NDF : 15239930.1/101

yield_bpm4eY_mean vs Slug, Sign Corrected



Right In: 0.409+/-0.000 χ^2/NDF : 7148554865.8/24

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

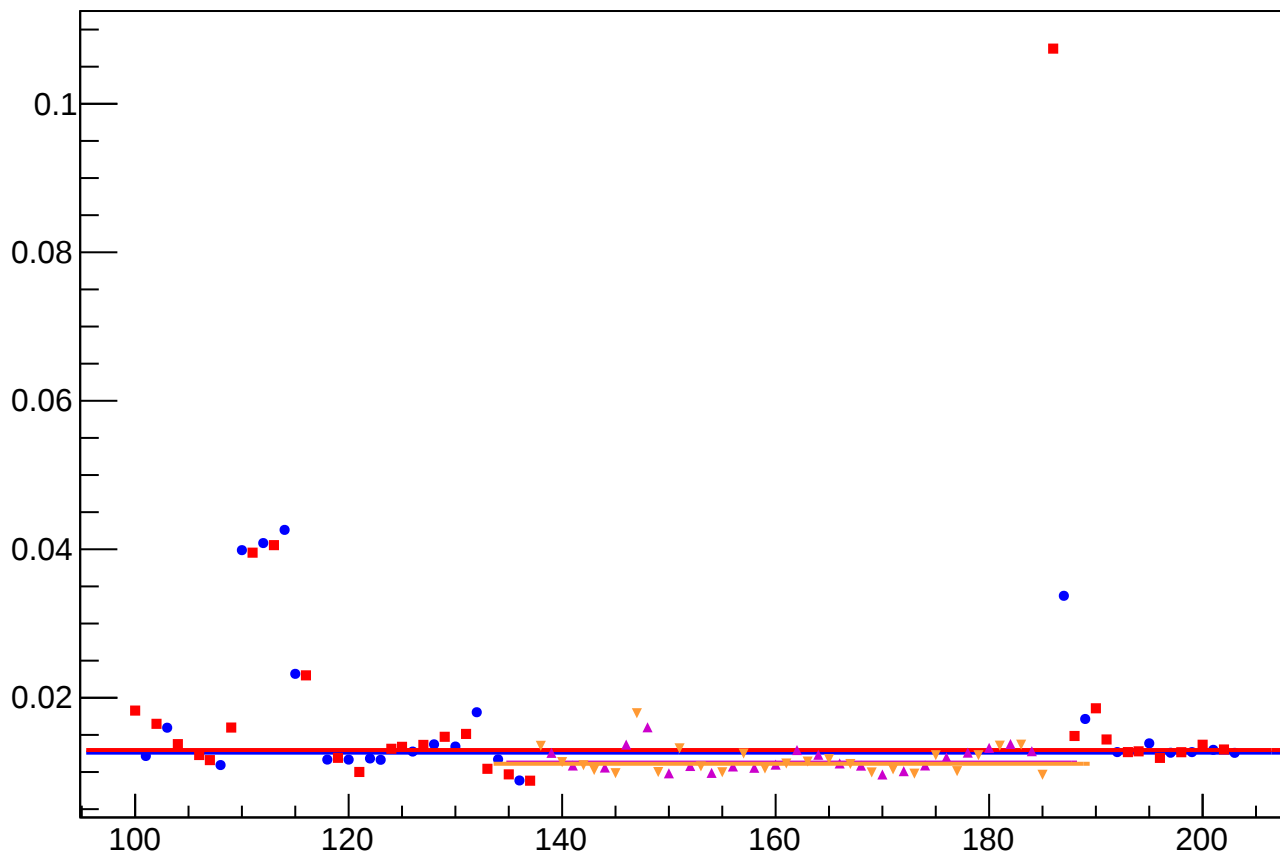
Right: 0.414+/-0.000 χ^2/NDF : 15375261717.7/53

In: 0.360+/-0.000 χ^2/NDF :7392645643.7/47

Out: 0.363+/-0.000 χ^2/NDF :8559088525.9/53

All: 0.362+/-0.000 χ^2/NDF : 15952450717.1/100

yield_bpm4eY_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 1508608.3/24

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

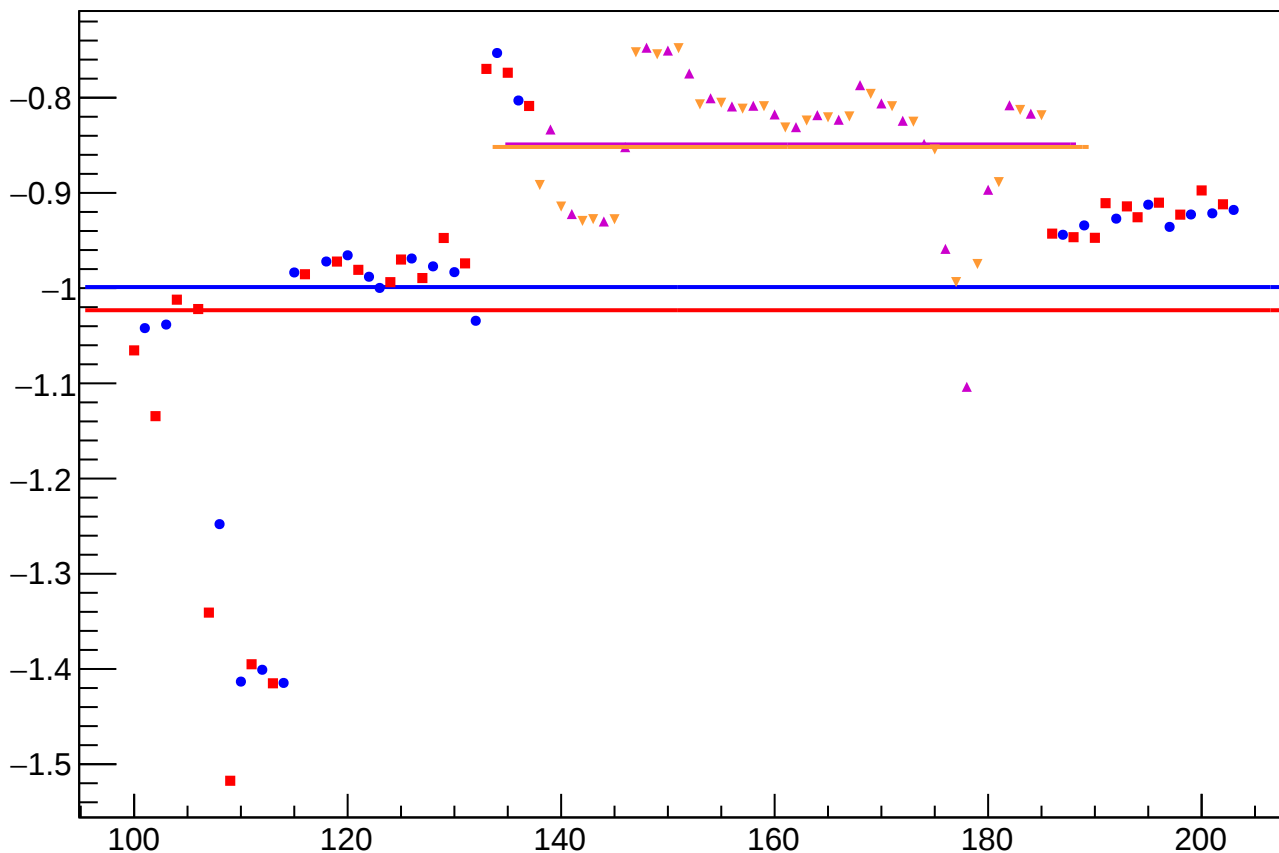
Right: 0.013+/-0.000 χ^2/NDF : 3454469.9/53

In: 0.012+/-0.000 χ^2/NDF : 2170833.5/47

Out: 0.012+/-0.000 χ^2/NDF : 2863443.9/53

All: 0.012+/-0.000 χ^2/NDF : 5034305.0/101

yield_bpm4acX_mean vs Slug, Sign Corrected



Right In: -0.999 $\pm$ 0.000 χ^2/NDF : 401175873.2/24

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

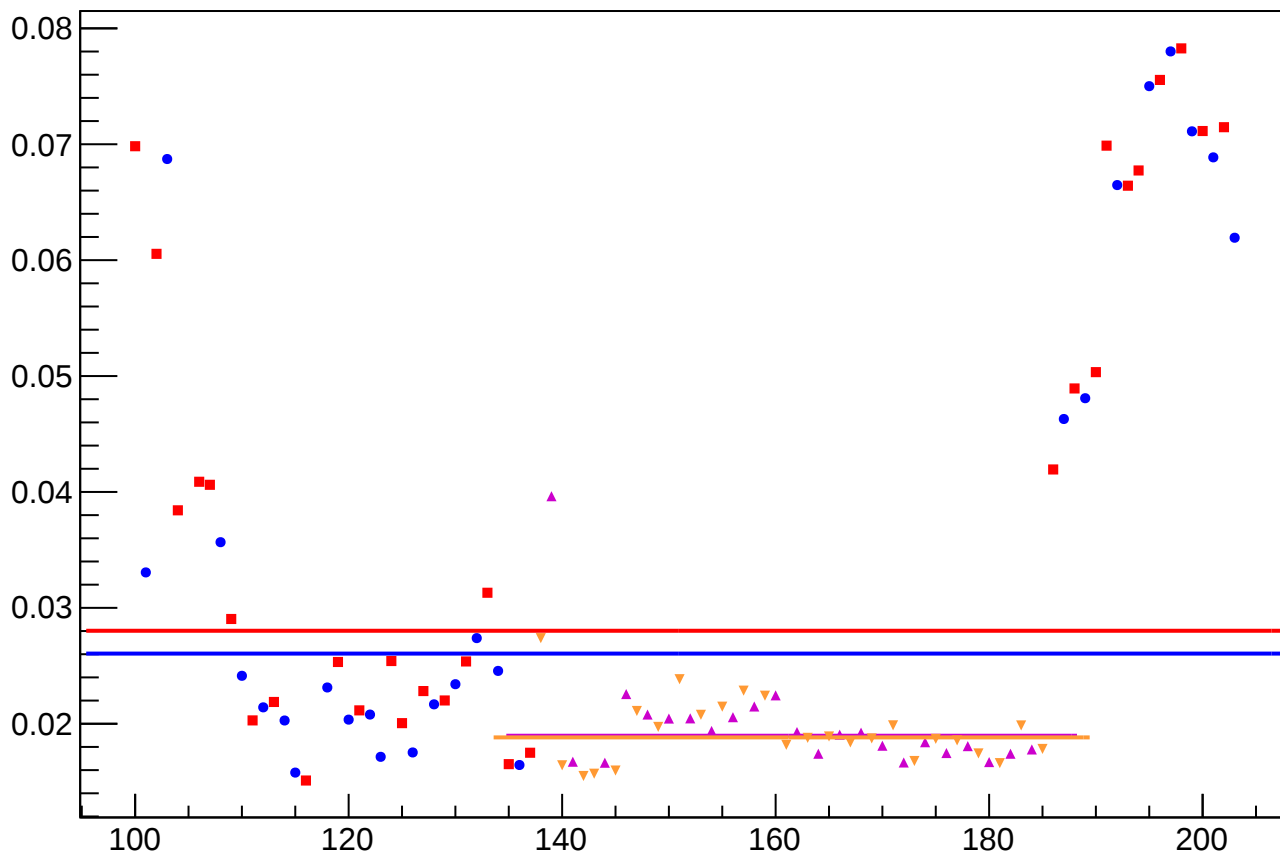
Right: -1.011 $\pm$ 0.000 χ^2/NDF : 957863799.3/53

In: -0.885 $\pm$ 0.000 χ^2/NDF : 864944973.3/47

Out: -0.889 $\pm$ 0.000 χ^2/NDF : 1012484301.6/53

All: -0.887 $\pm$ 0.000 χ^2/NDF : 1877990647.9/1

yield_bpm4acX_rms vs Slug, Sign Corrected



Right In: 0.026 $\pm$ 0.000 χ^2 /NDF: 5396925.3/24

Left Out: 0.019 $\pm$ 0.000 χ^2 /NDF:490509.4/24

Right Out: 0.028 $\pm$ 0.000 χ^2 /NDF: 5676213.5/28

Left In: 0.019 $\pm$ 0.000 χ^2 /NDF:615173.8/22

Left: 0.019 $\pm$ 0.000 χ^2 /NDF: 1106521.0/47

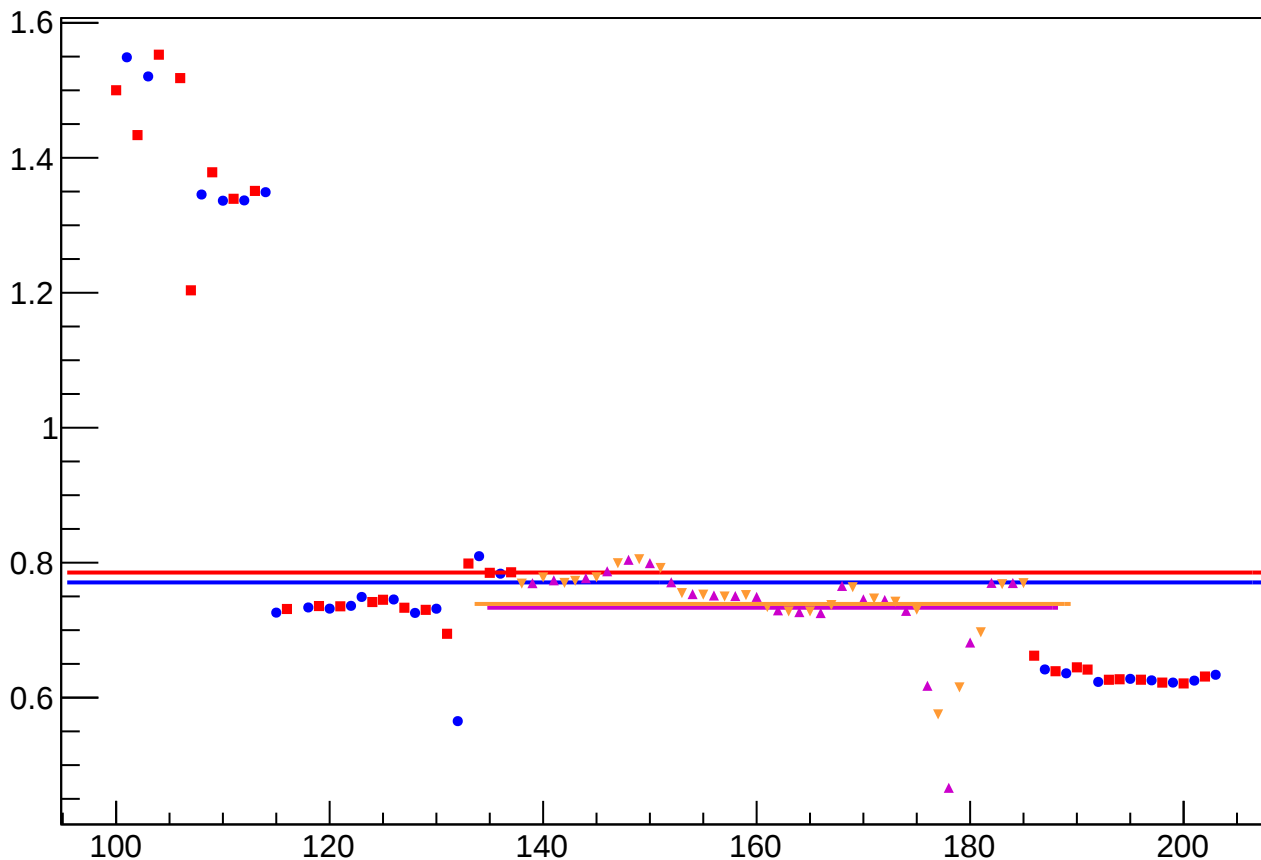
Right: 0.027 $\pm$ 0.000 χ^2 /NDF: 11119508.6/53

In: 0.021 $\pm$ 0.000 χ^2 /NDF:6940541.3/47

Out: 0.021 $\pm$ 0.000 χ^2 /NDF:7722946.3/53

All: 0.021 $\pm$ 0.000 χ^2 /NDF: 14665349.5/101

yield_bpm4acY_mean vs Slug, Sign Corrected



Right In: 0.771 $\pm$ 0.000 χ^2 /NDF: 3314371564.7/24

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

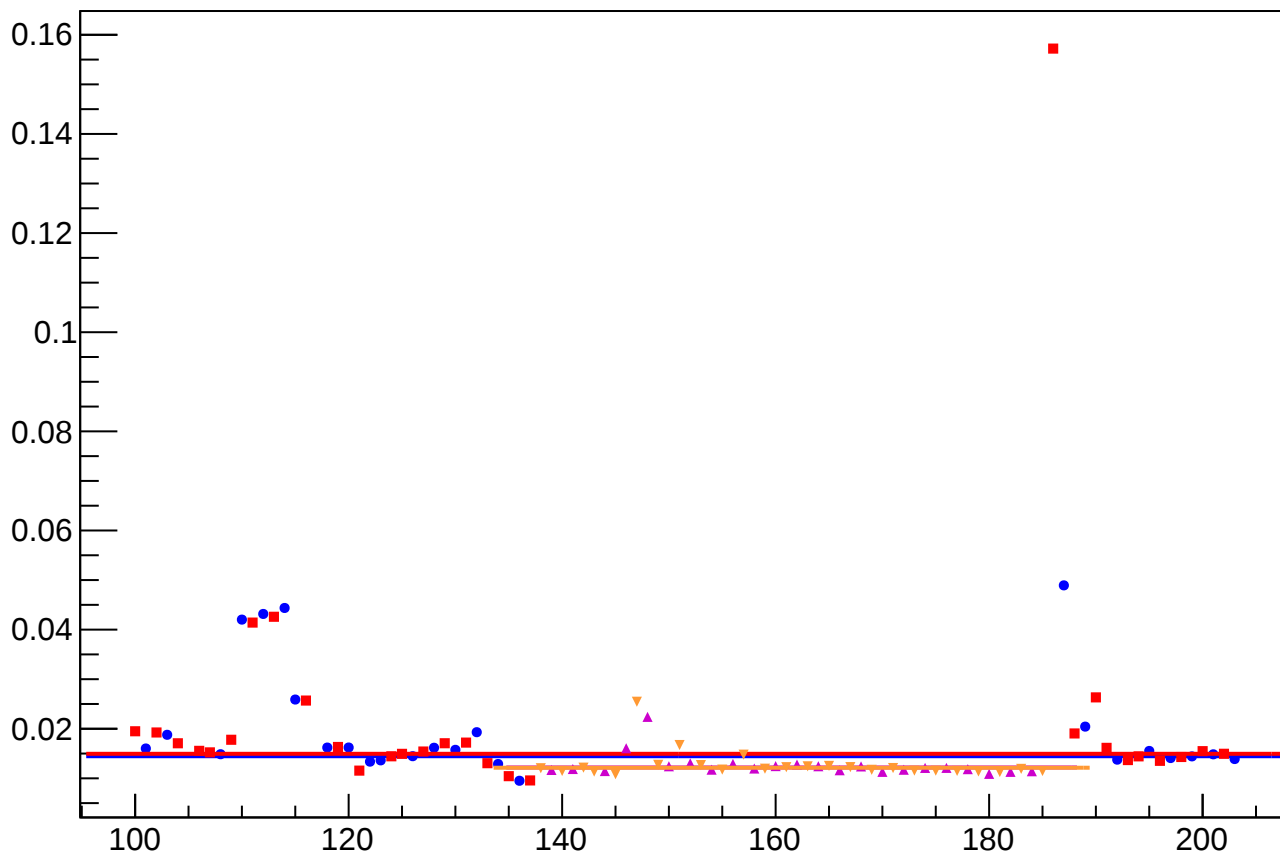
Right: 0.778 $\pm$ 0.000 χ^2 /NDF: 6928403708.8/53

In: 0.745 $\pm$ 0.000 χ^2 /NDF:3933608528.5/47

Out: 0.753 $\pm$ 0.000 χ^2 /NDF:4020130658.9/53

All: 0.749 $\pm$ 0.000 χ^2 /NDF: 7959084642.4/100

yield_bpm4acY_rms vs Slug, Sign Corrected



Right In: 0.014+/-0.000 χ^2/NDF : 1639469.9/24

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

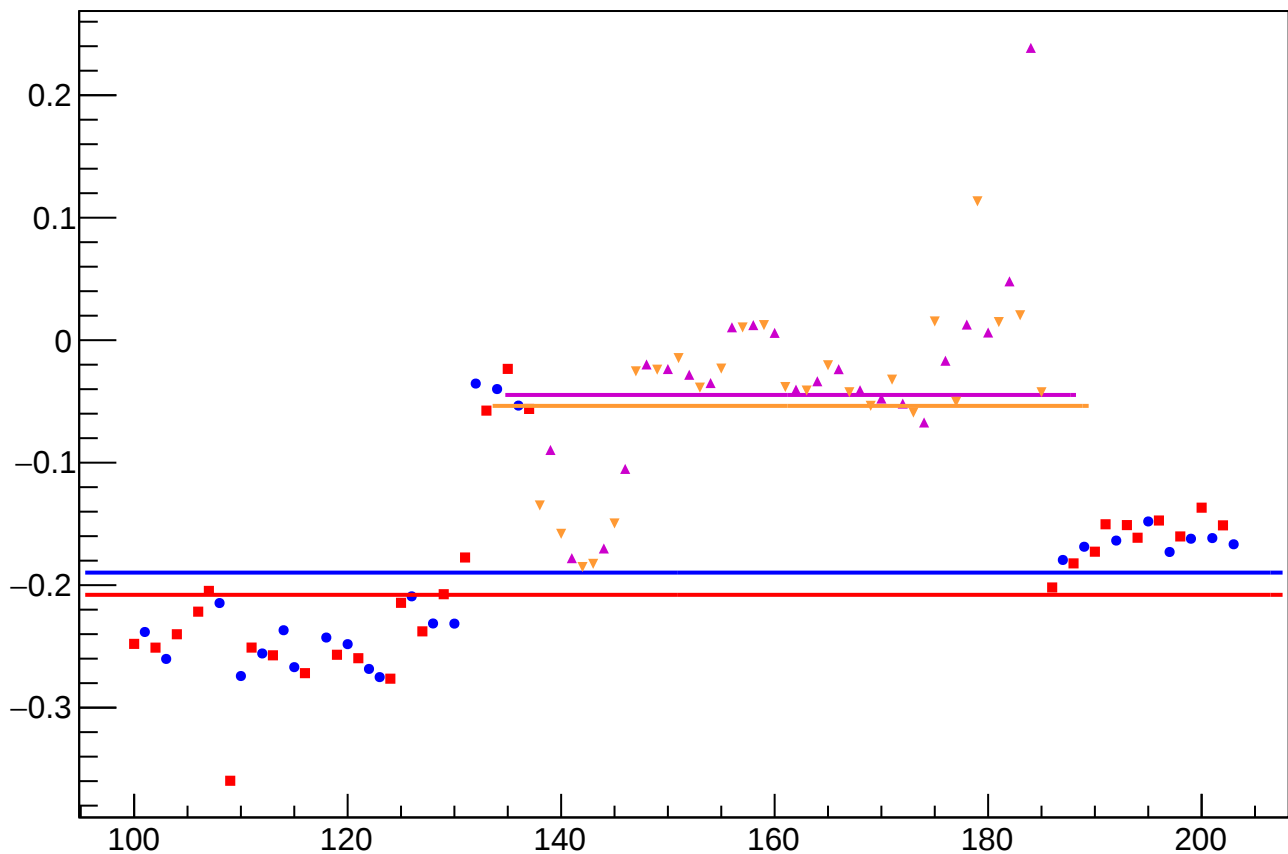
Right: 0.015+/-0.000 χ^2/NDF : 3732269.8/53

In: 0.013+/-0.000 χ^2/NDF : 2485149.9/47

Out: 0.013+/-0.000 χ^2/NDF : 3291268.1/53

All: 0.013+/-0.000 χ^2/NDF : 5777722.0/101

yield_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -0.190+/-0.000 χ^2/NDF : 107126656.7/24

Left Out: -0.054+/-0.000 χ^2/NDF : 167834173.6/24

Right Out: -0.208+/-0.000 χ^2/NDF : 114145684.6/28

Left In: -0.045+/-0.000 χ^2/NDF : 127192425.2/22

Left: -0.049+/-0.000 χ^2/NDF : 296566503.6/47

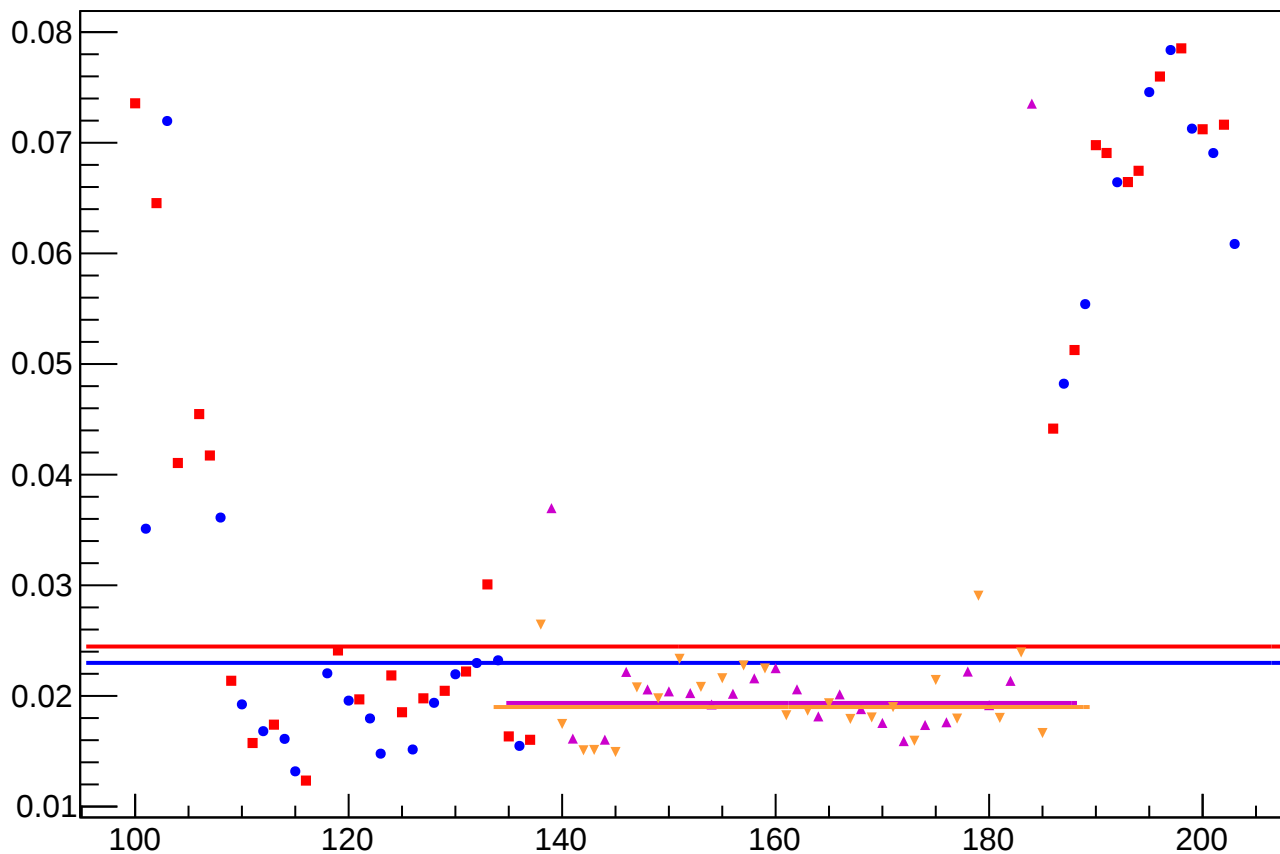
Right: -0.199+/-0.000 χ^2/NDF : 223683202.0/53

In: -0.086+/-0.000 χ^2/NDF : 456872265.6/47

Out: -0.094+/-0.000 χ^2/NDF : 535519113.0/53

All: -0.090+/-0.000 χ^2/NDF : 994095212.8/10

yield_bpm4ecX_rms vs Slug, Sign Corrected



Right In: 0.023+/-0.000 χ^2/NDF : 6240965.6/24

Left Out: 0.019+/-0.000 χ^2/NDF : 700229.7/24

Right Out: 0.024+/-0.000 χ^2/NDF : 6915792.6/28

Left In: 0.019+/-0.000 χ^2/NDF : 858216.8/22

Left: 0.019+/-0.000 χ^2/NDF : 1563699.1/47

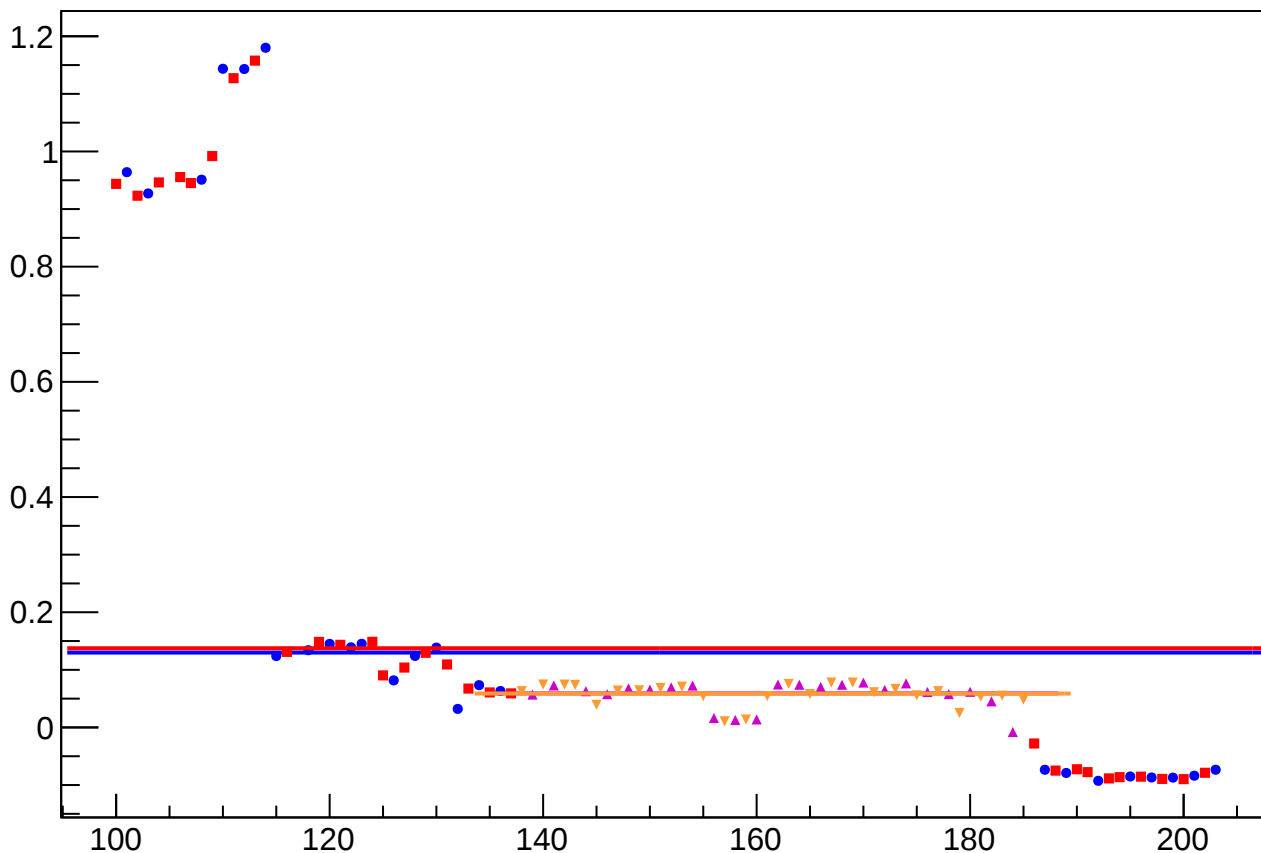
Right: 0.024+/-0.000 χ^2/NDF : 13188791.6/53

In: 0.020+/-0.000 χ^2/NDF : 7376727.1/47

Out: 0.020+/-0.000 χ^2/NDF : 8253568.2/53

All: 0.020+/-0.000 χ^2/NDF : 15630356.4/101

yield_bpm4ecY_mean vs Slug, Sign Corrected



Right In: 0.130 $\pm$ 0.000 χ^2 /NDF: 7691260215.5/24

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

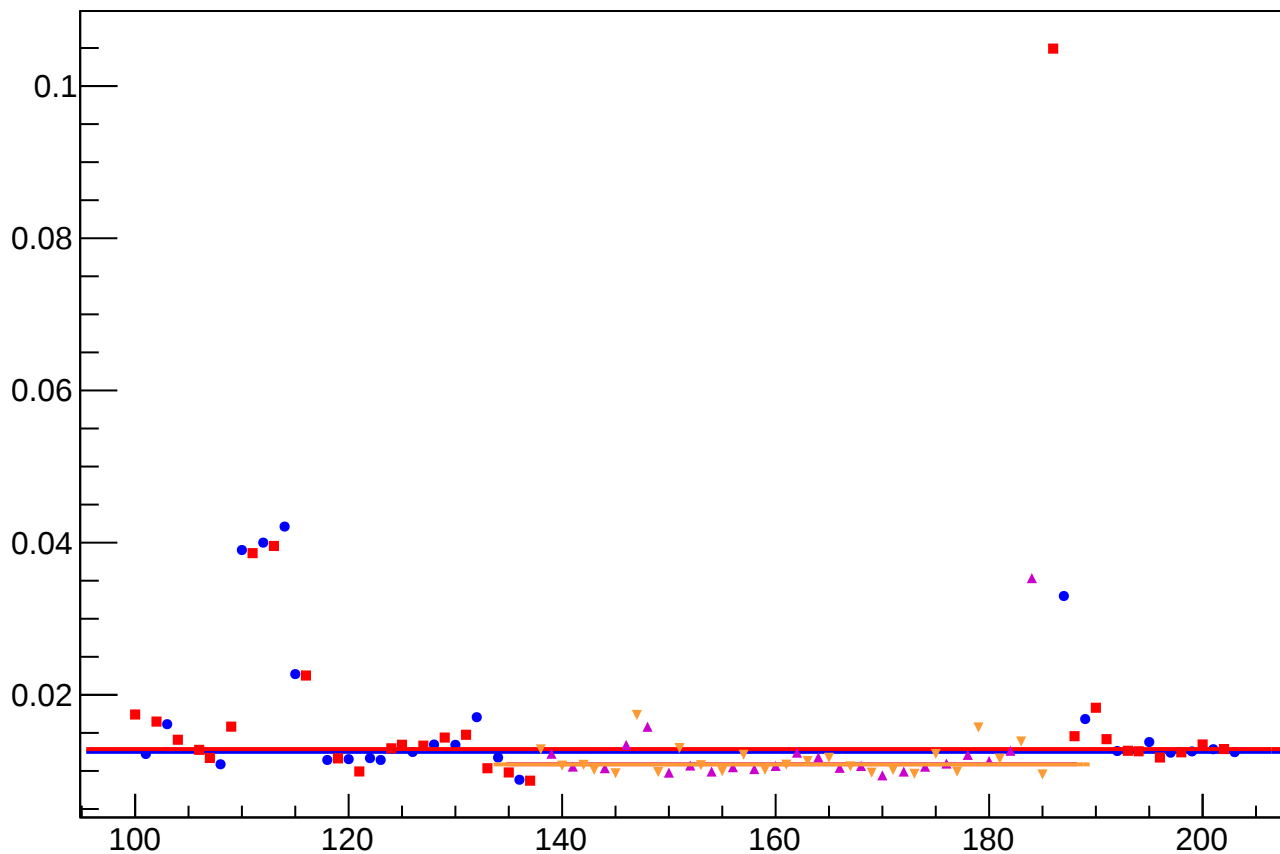
Right: 0.134 $\pm$ 0.000 χ^2 /NDF: 16338545905.1/53

In: 0.083 $\pm$ 0.000 χ^2 /NDF: 7980466447.9/47

Out: 0.085 $\pm$ 0.000 χ^2 /NDF: 8984703578.1/53

All: 0.084 $\pm$ 0.000 χ^2 /NDF: 16965459357.4/100

yield_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 1475207.3/24

Left Out: 0.011+/-0.000 χ^2/NDF :604787.9/24

Right Out: 0.013+/-0.000 χ^2/NDF : 1892924.2/28

Left In: 0.011+/-0.000 χ^2/NDF :530077.5/22

Left: 0.011+/-0.000 χ^2/NDF : 1134994.9/47

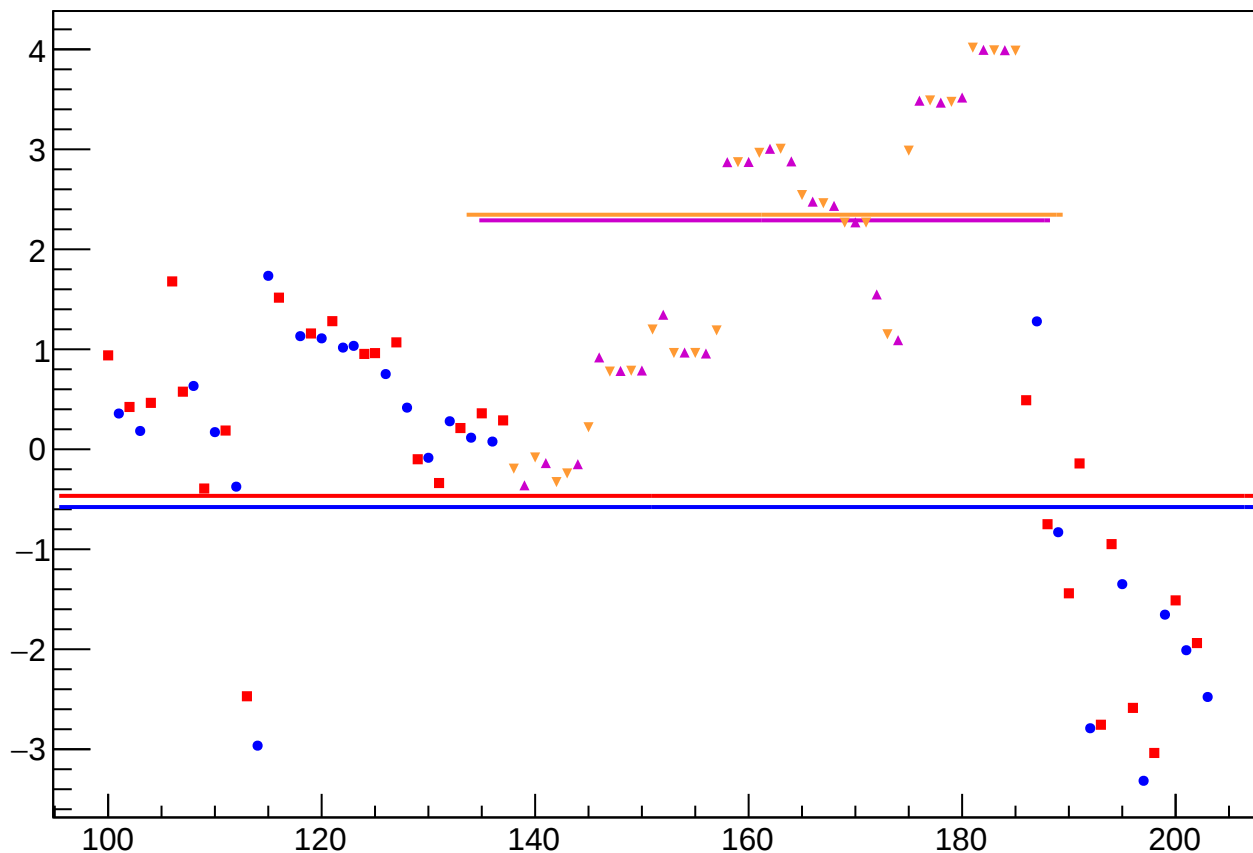
Right: 0.013+/-0.000 χ^2/NDF : 3377261.6/53

In: 0.011+/-0.000 χ^2/NDF :2246066.2/47

Out: 0.012+/-0.000 χ^2/NDF :2880548.1/53

All: 0.011+/-0.000 χ^2/NDF : 5128077.9/101

yield_bpm1X_mean vs Slug, Sign Corrected



Right In: -0.578+/-0.000 χ^2/NDF : 5501126132.3/24

Left Out: 2.346+/-0.000 χ^2/NDF : 63481331015.4/24

Right Out: -0.466+/-0.000 χ^2/NDF : 5773299216.5/28

Left In: 2.290+/-0.000 χ^2/NDF : 60875537647.3/22

Left: 2.318+/-0.000 χ^2/NDF : 124438674298.4/47

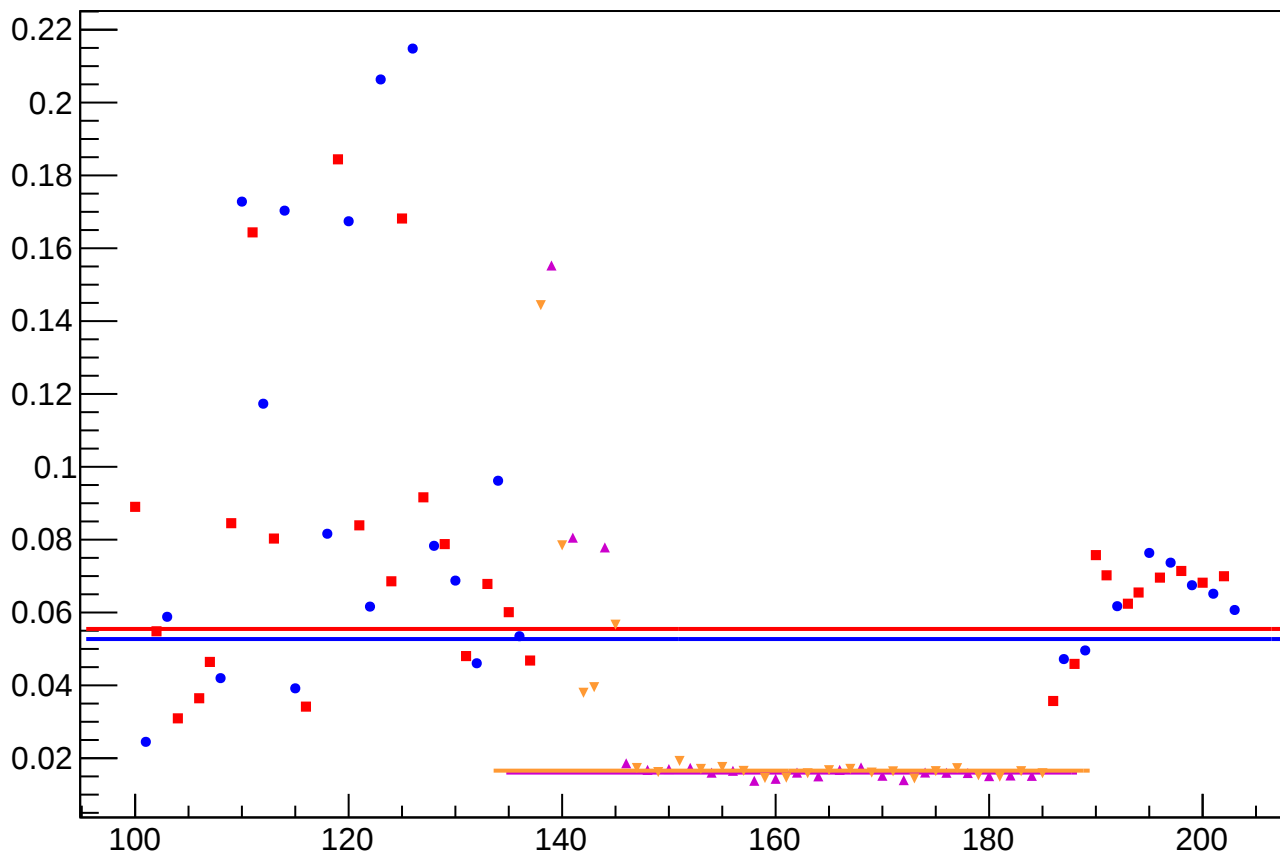
Right: -0.520+/-0.000 χ^2/NDF : 11293828167.2/53

In: 2.132+/-0.000 χ^2/NDF : 89843190321.4/47

Out: 2.180+/-0.000 χ^2/NDF : 92989103695.8/53

All: 2.156+/-0.000 χ^2/NDF : 182896688321.6

yield_bpm1X_rms vs Slug, Sign Corrected



Right In: 0.053+/-0.000 χ^2/NDF : 3499758.3/24

Left Out: 0.017+/-0.000 χ^2/NDF :2621162.1/24

Right Out: 0.055+/-0.000 χ^2/NDF : 2835499.9/28

Left In: 0.016+/-0.000 χ^2/NDF :2394376.5/22

Left: 0.016+/-0.000 χ^2/NDF : 5030430.5/47

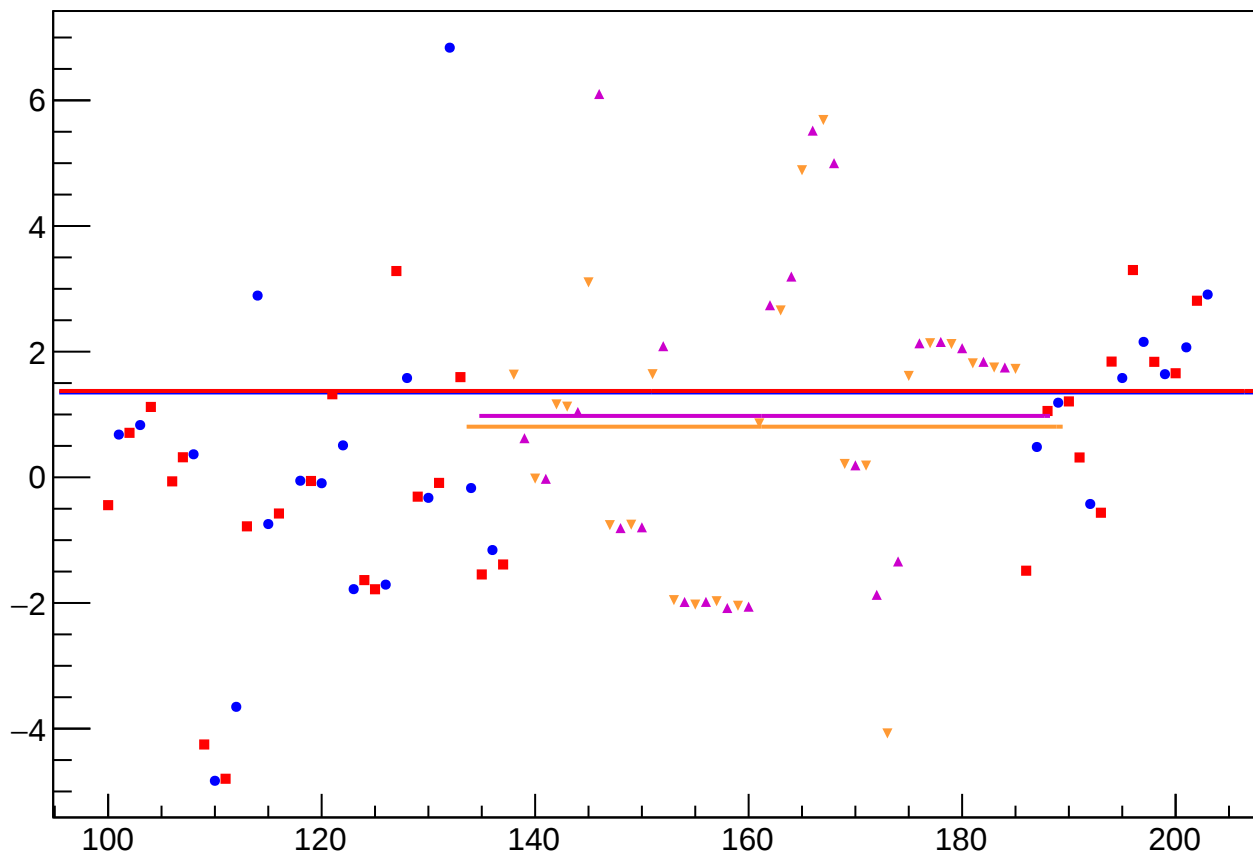
Right: 0.054+/-0.000 χ^2/NDF : 6359080.0/53

In: 0.018+/-0.000 χ^2/NDF :13569153.2/47

Out: 0.019+/-0.000 χ^2/NDF :14540787.5/53

All: 0.018+/-0.000 χ^2/NDF : 28145833.4/101

yield_bpm1Y_mean vs Slug, Sign Corrected



Right In: 1.350+/-0.000

χ^2/NDF : 26216645040.5/24

Left Out: 0.806+/-0.000

χ^2/NDF : 507578952196.2/24

Right Out: 1.374+/-0.000

χ^2/NDF : 26366229673.9/28

Left In: 0.977+/-0.000

χ^2/NDF : 568209676597.4/22

Left: 0.892+/-0.000

χ^2/NDF : 1077036497291.8/47

Right: 1.363+/-0.000

χ^2/NDF : 52587604380.0/53

In: 1.037+/-0.000

χ^2/NDF : 596317068795.8/47

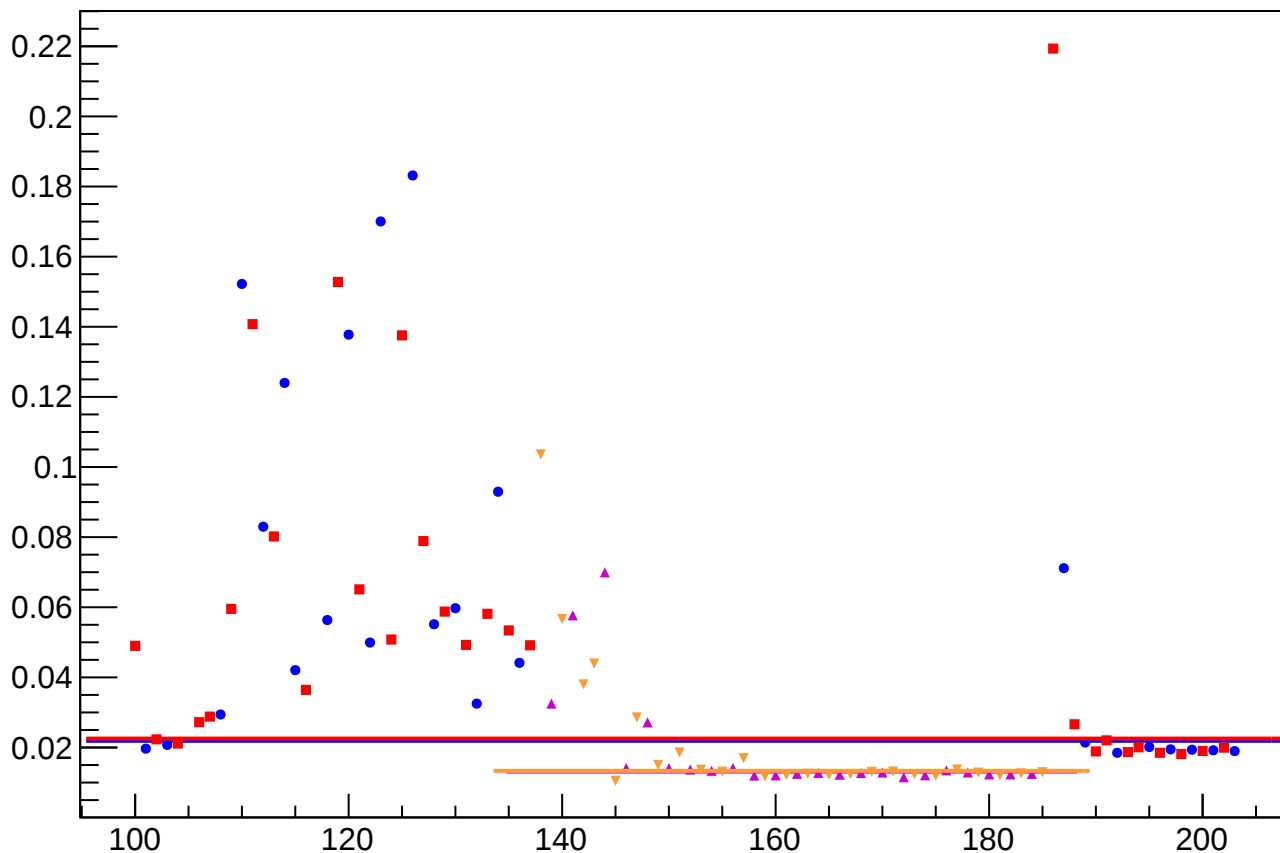
Out: 0.900+/-0.000

χ^2/NDF : 538474718653.0/53

All: 0.968+/-0.000

χ^2/NDF : 1135744575011.0/100

yield_bpm1Y_rms vs Slug, Sign Corrected



Right In: 0.022+/-0.000 χ^2/NDF : 3779533.9/24

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

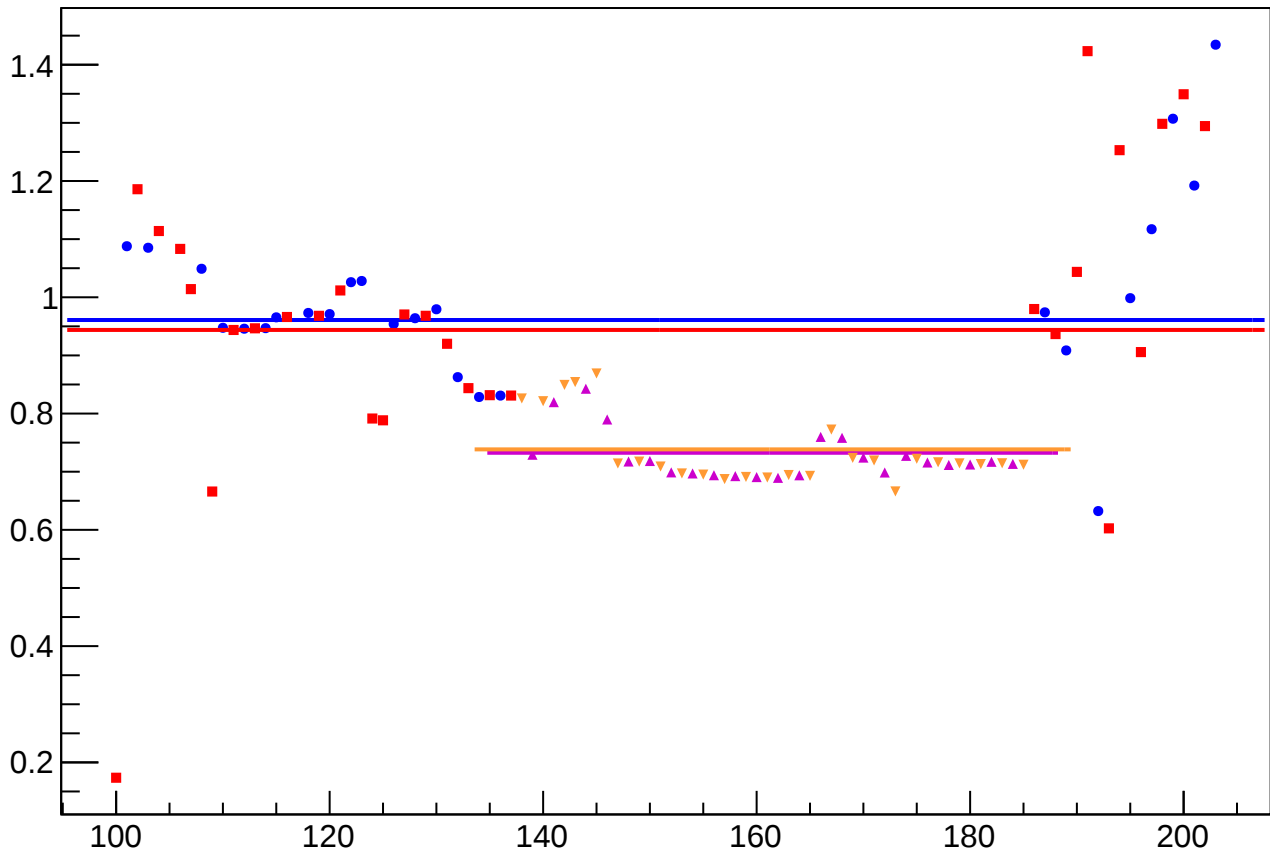
Right: 0.022+/-0.000 χ^2/NDF : 8559303.6/53

In: 0.015+/-0.000 χ^2/NDF :7817113.2/47

Out: 0.015+/-0.000 χ^2/NDF :9974026.1/53

All: 0.015+/-0.000 χ^2/NDF : 17801522.7/101

yield_bpm11X_mean vs Slug, Sign Corrected



Right In: 0.961+/-0.000 χ^2/NDF : 565682635.0/24

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

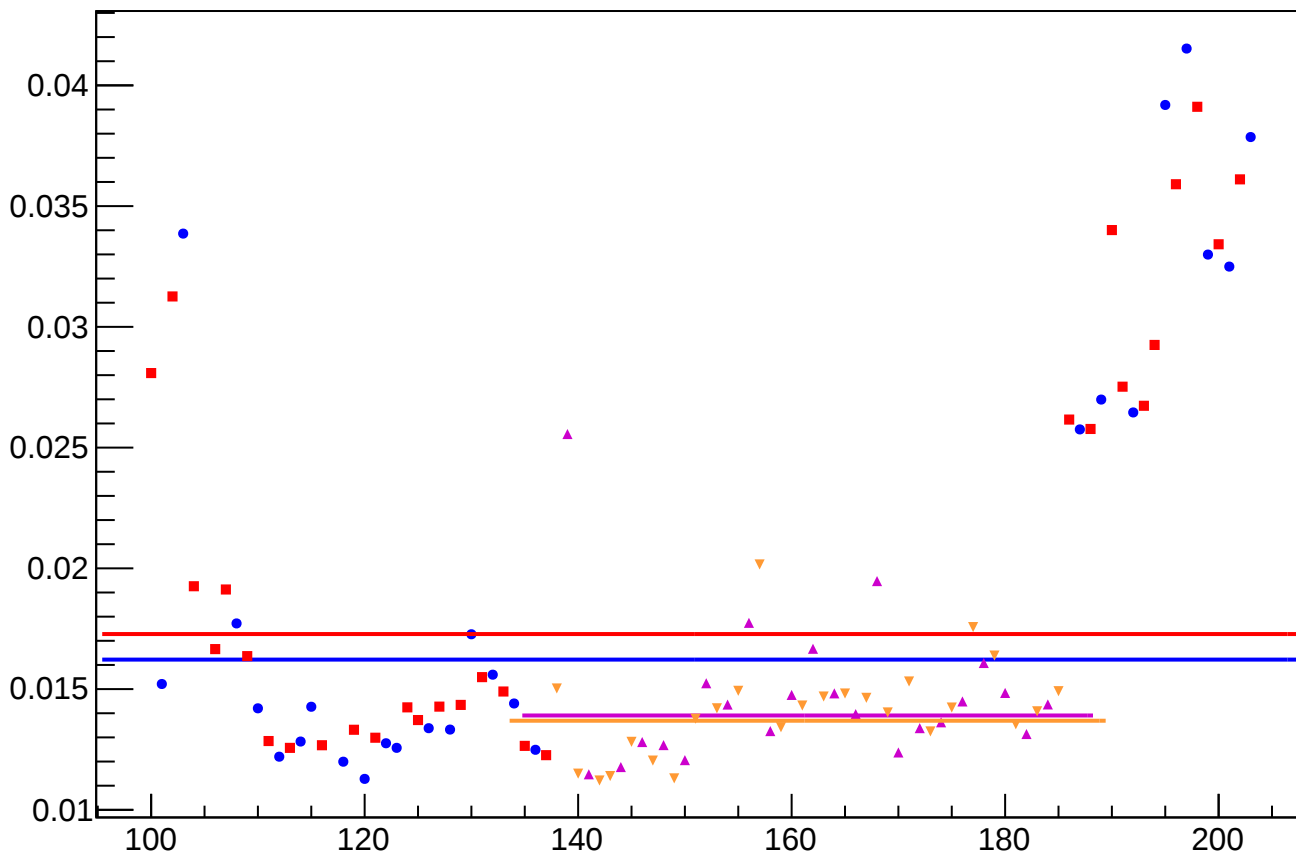
Right: 0.952+/-0.000 χ^2/NDF : 1467353188.9/53

In: 0.803+/-0.000 χ^2/NDF : 2023378143.2/47

Out: 0.799+/-0.000 χ^2/NDF : 2273206473.9/53

All: 0.801+/-0.000 χ^2/NDF : 4297864912.6/100

yield_bpm11X_rms vs Slug, Sign Corrected



Right In: 0.016+/-0.000 χ^2/NDF : 3642064.3/24

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

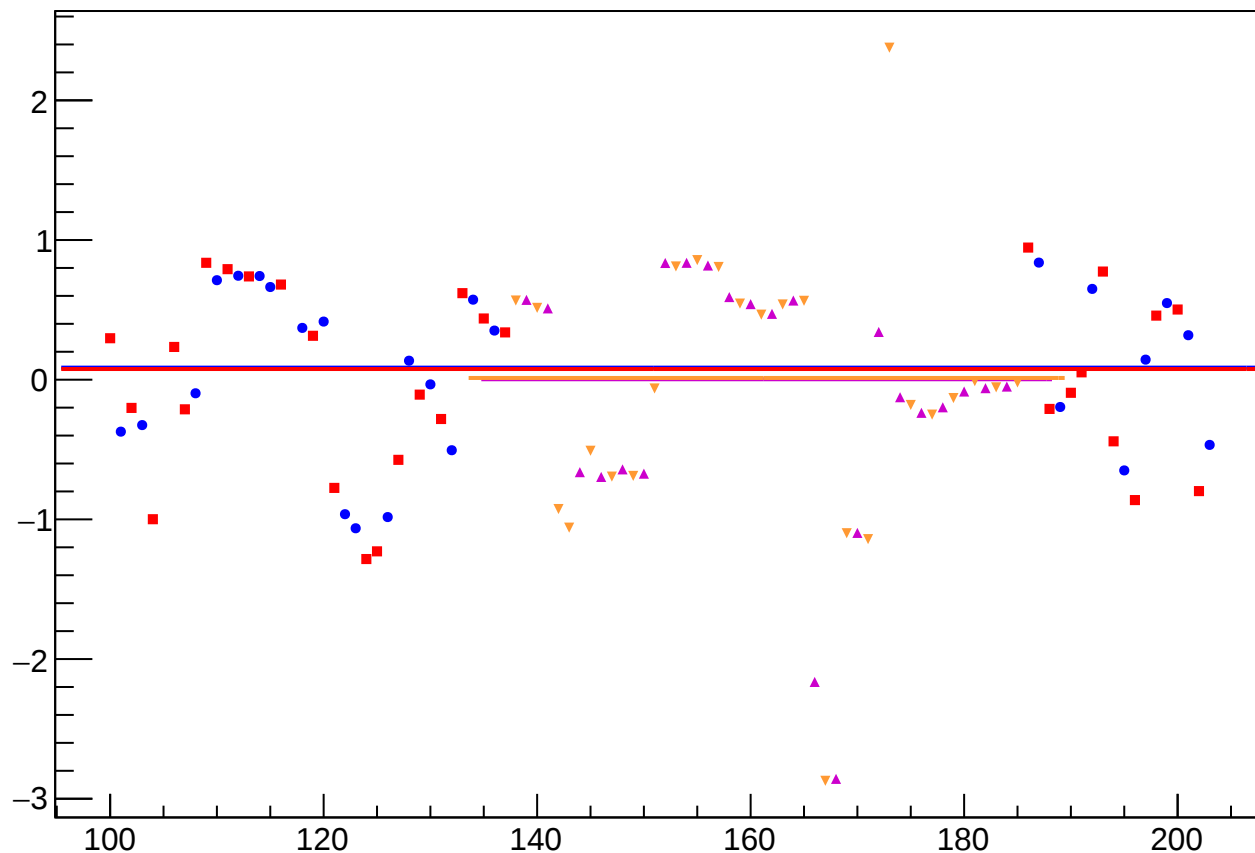
Right: 0.017+/-0.000 χ^2/NDF : 7100891.6/53

In: 0.015+/-0.000 χ^2/NDF : 4674671.1/47

Out: 0.015+/-0.000 χ^2/NDF : 4598426.1/53

All: 0.015+/-0.000 χ^2/NDF : 9274750.6/101

yield_bpm11Y_mean vs Slug, Sign Corrected



Right In: 0.086+/-0.000 χ^2/NDF : 15805978425.2/24

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

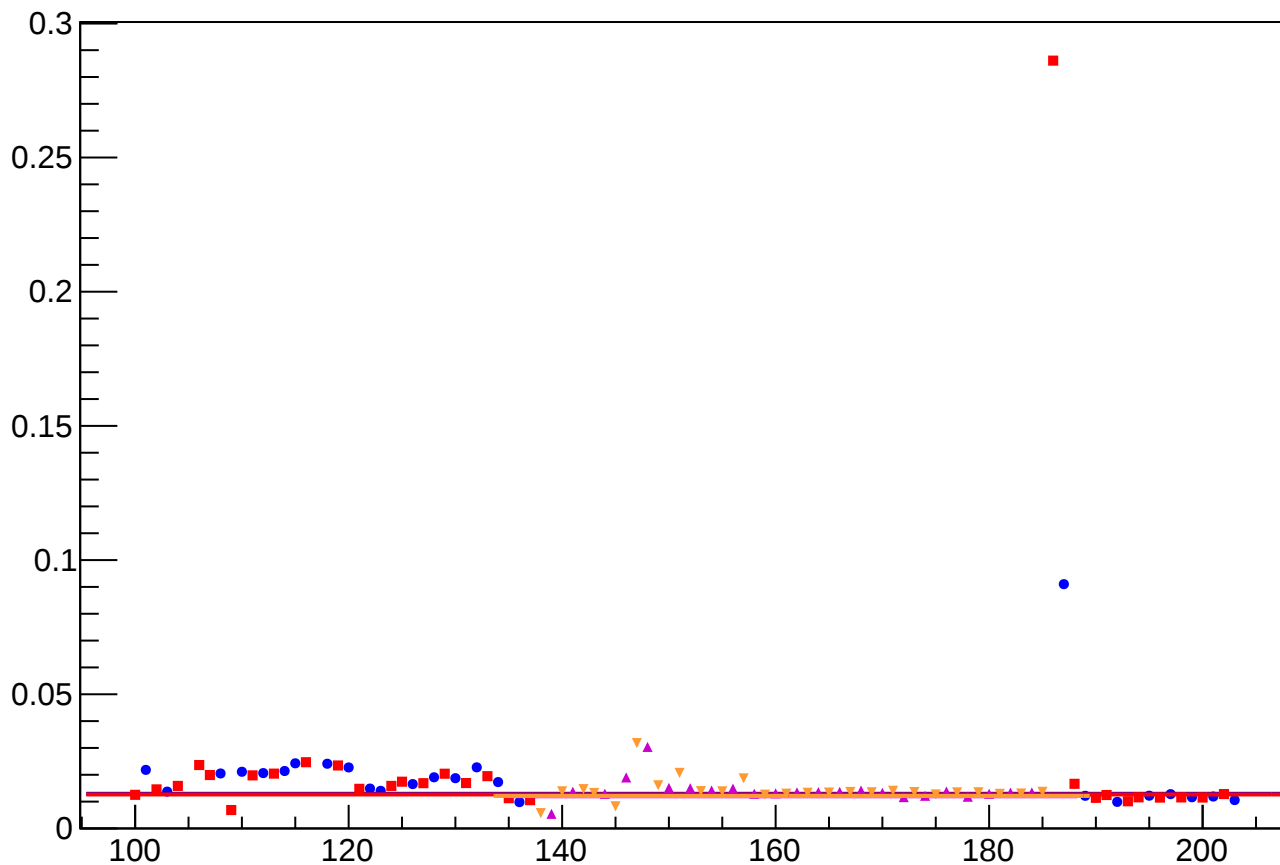
Right: 0.081+/-0.000 χ^2/NDF : 42704822361.3/53

In: 0.034+/-0.000 χ^2/NDF : 94899334032.1/47

Out: 0.037+/-0.000 χ^2/NDF : 123451444756.7/53

All: 0.035+/-0.000 χ^2/NDF : 218351607054.7

yield_bpm11Y_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 1940730.7/24

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

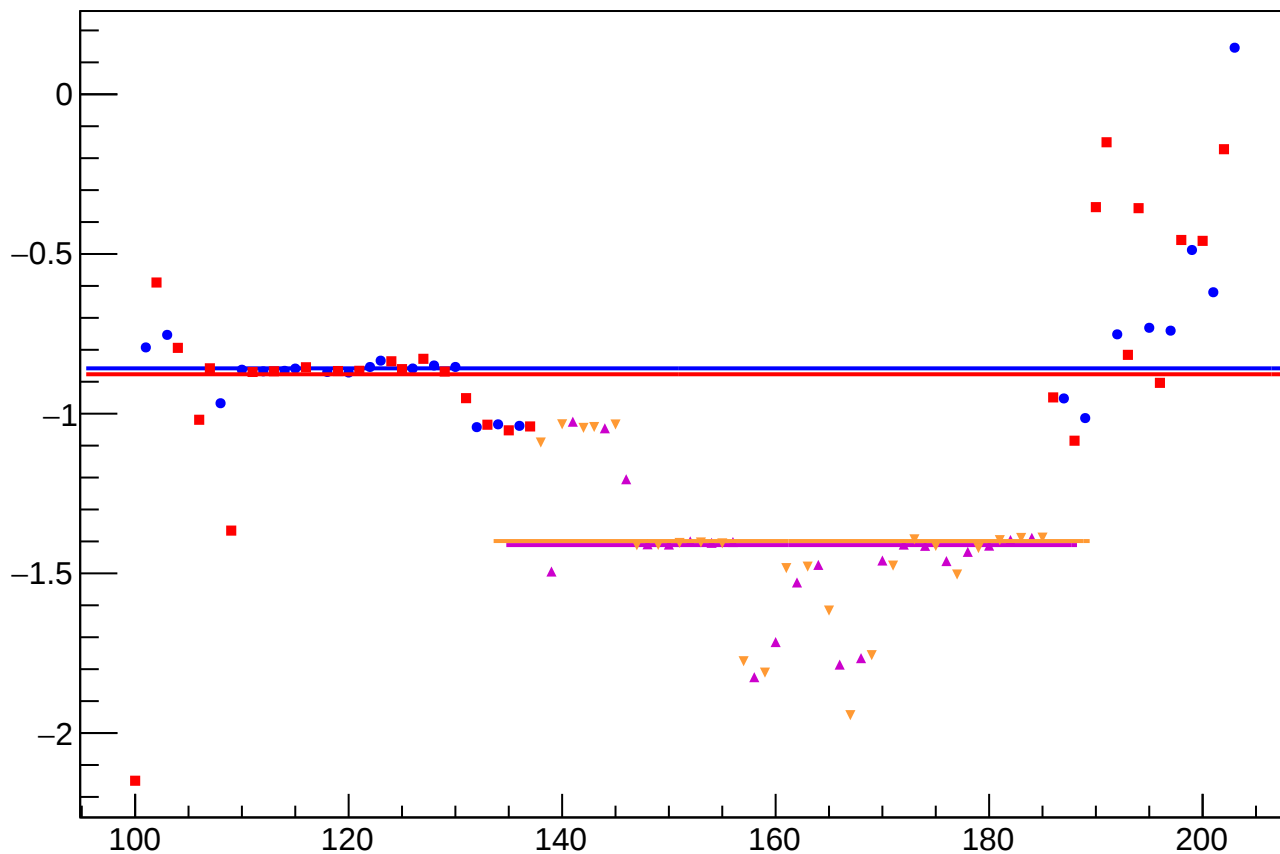
Right: 0.013+/-0.000 χ^2/NDF : 4461198.8/53

In: 0.012+/-0.000 χ^2/NDF : 5009001.8/47

Out: 0.012+/-0.000 χ^2/NDF : 5648356.4/53

All: 0.012+/-0.000 χ^2/NDF : 10657388.2/101

yield_bpm12X_mean vs Slug, Sign Corrected



Right In: -0.858 ± 0.000 $\chi^2/\text{NDF}: 169924723.8/24$

Left Out: -1.399 ± 0.000 $\chi^2/\text{NDF}: 738251911.1/24$

Right Out: -0.877 ± 0.000 $\chi^2/\text{NDF}: 316838982.1/28$

Left In: -1.411 ± 0.000 $\chi^2/\text{NDF}: 512547995.0/22$

Left: -1.405 ± 0.000 $\chi^2/\text{NDF}: 1251791467.1/47$

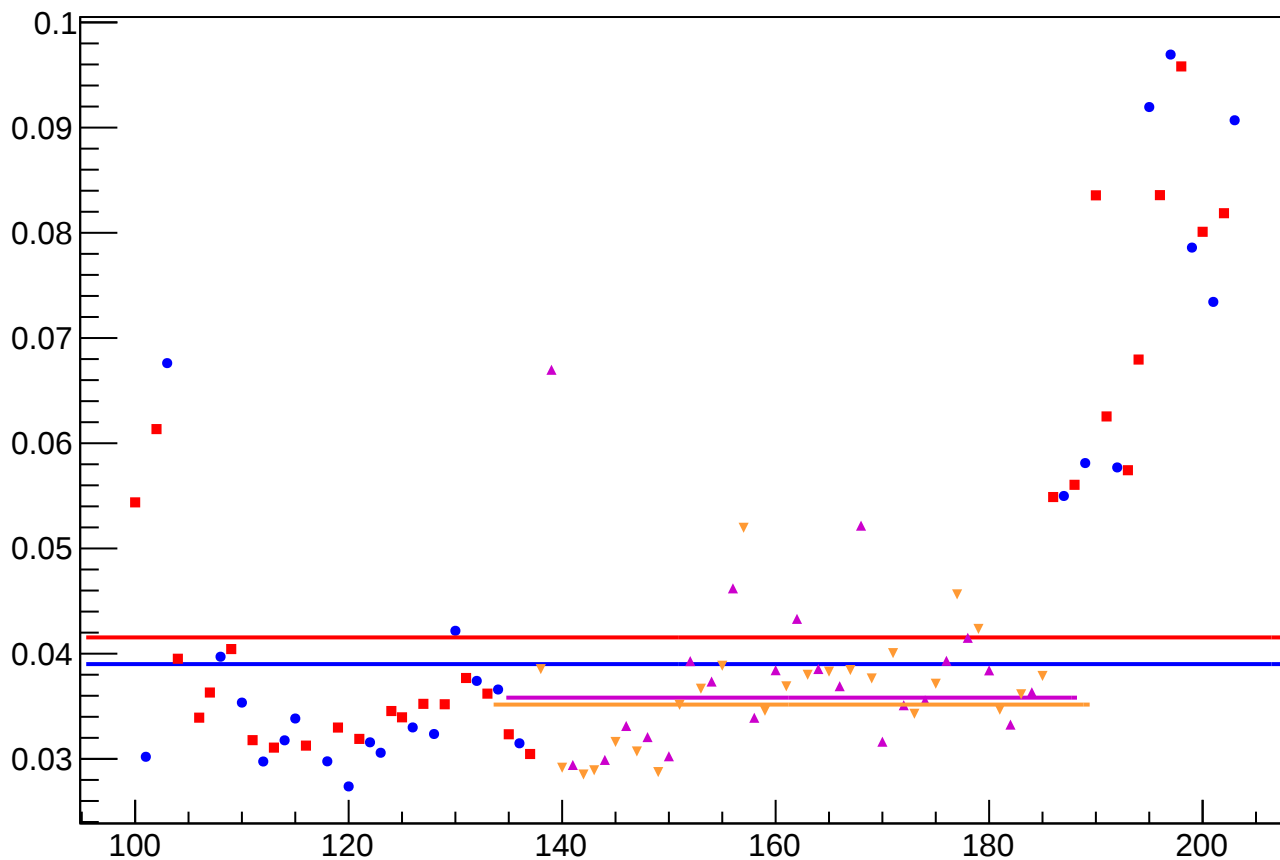
Right: -0.867 ± 0.000 $\chi^2/\text{NDF}: 487848747.1/53$

In: -1.220 ± 0.000 $\chi^2/\text{NDF}: 1945521617.8/47$

Out: -1.228 ± 0.000 $\chi^2/\text{NDF}: 2211800374.4/53$

All: -1.224 ± 0.000 $\chi^2/\text{NDF}: 4157958693.7/1$

yield_bpm12X_rms vs Slug, Sign Corrected



Right In: 0.039 $\pm$ 0.000 χ^2 /NDF: 3277770.8/24

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

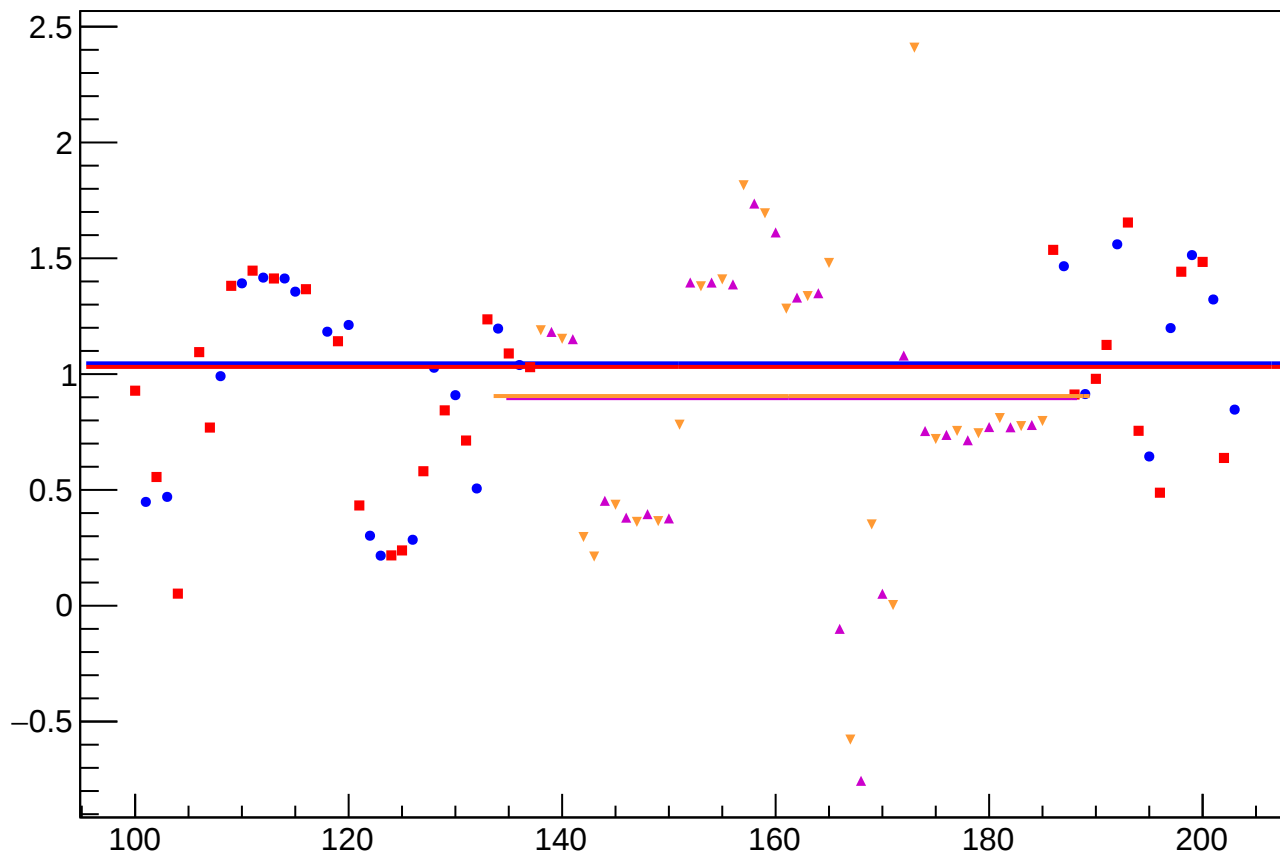
Right: 0.040 $\pm$ 0.000 χ^2 /NDF: 6222748.5/53

In: 0.037 $\pm$ 0.000 χ^2 /NDF:4225804.5/47

Out: 0.037 $\pm$ 0.000 χ^2 /NDF:3845354.4/53

All: 0.037 $\pm$ 0.000 χ^2 /NDF: 8073139.3/101

yield_bpm12Y_mean vs Slug, Sign Corrected



Right In: 1.046+/-0.000

χ^2/NDF : 18926859945.2/24

Left: 0.901+/-0.000 χ^2/NDF : 150868618084.6/47

Right: 1.039+/-0.000 χ^2/NDF : 43830004344.6/53

Left Out: 0.905+/-0.000

χ^2/NDF : 84265726513.8/24

In: 0.957+/-0.000 χ^2/NDF : 87387860880.3/47

Right Out: 1.031+/-0.000

χ^2/NDF : 24887085783.5/28

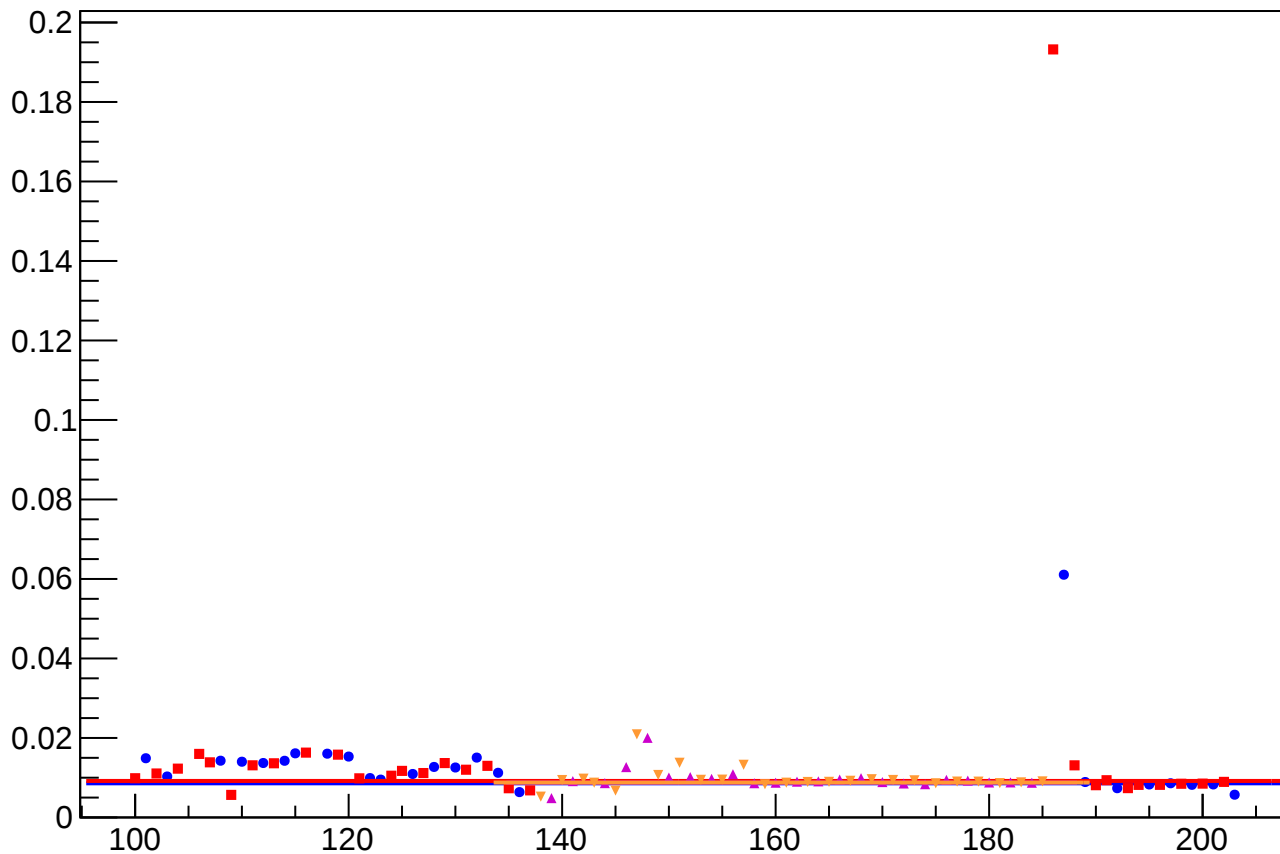
Out: 0.953+/-0.000 χ^2/NDF : 110463451347.6/53

Left In: 0.896+/-0.000

χ^2/NDF : 66594200889.6/22

All: 0.955+/-0.000 χ^2/NDF : 197854085526.0

yield_bpm12Y_rms vs Slug, Sign Corrected



Right In: 0.009+/-0.000 χ^2/NDF : 2167322.1/24

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

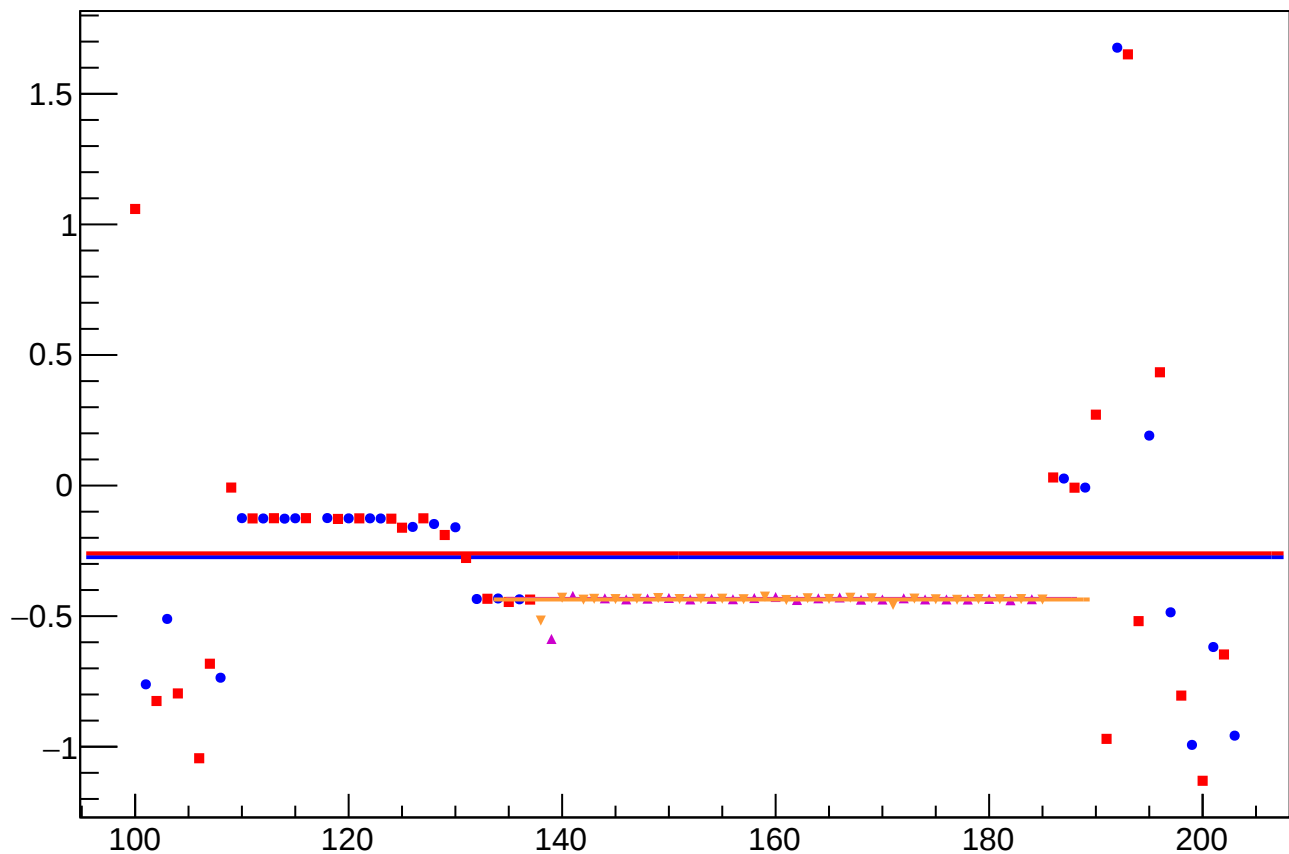
Right: 0.009+/-0.000 χ^2/NDF : 4398298.5/53

In: 0.009+/-0.000 χ^2/NDF :3781008.7/47

Out: 0.009+/-0.000 χ^2/NDF :3907180.9/53

All: 0.009+/-0.000 χ^2/NDF : 7707394.6/101

yield_bpm16X_mean vs Slug, Sign Corrected



Right In: -0.274+/-0.000 χ^2/NDF : 2140121599.0/24

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

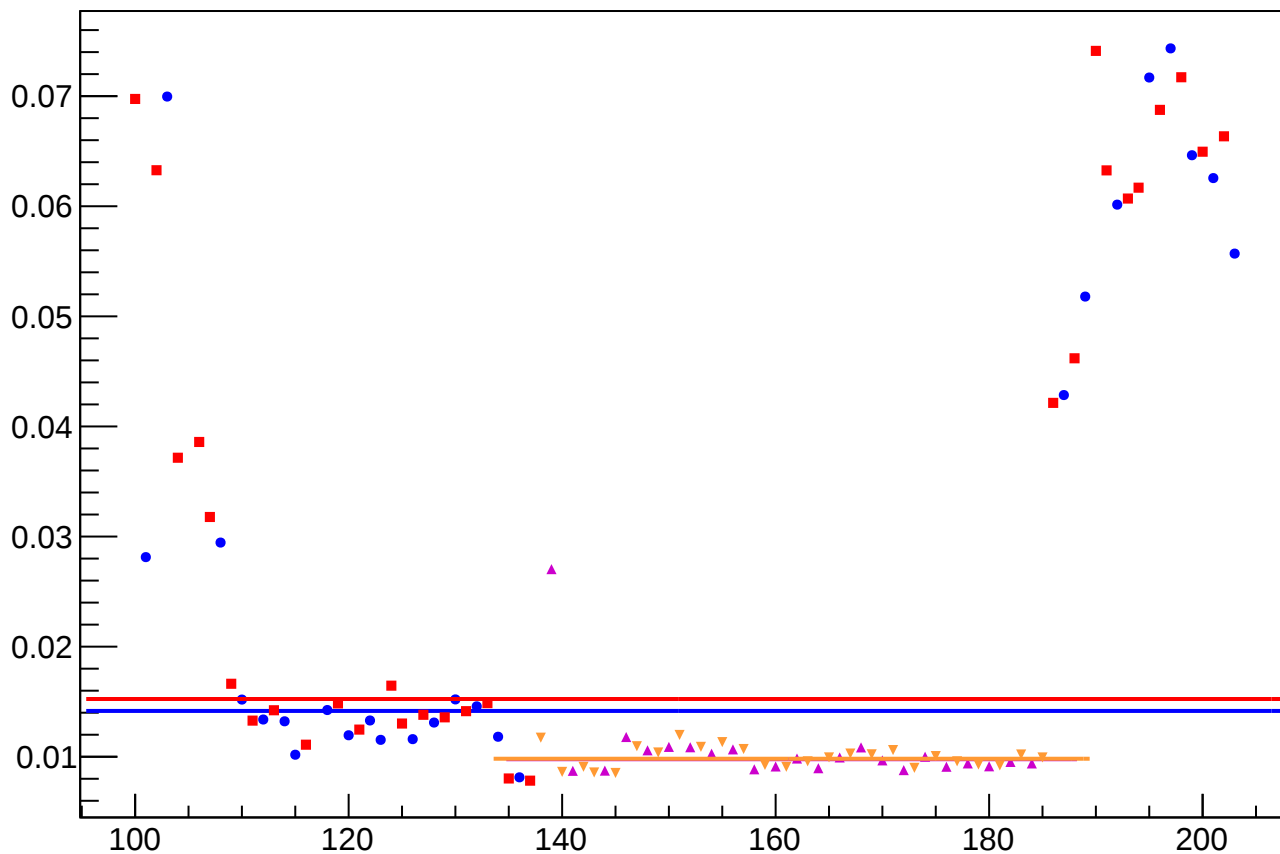
Right: -0.267+/-0.000 χ^2/NDF : 4191544208.1/53

In: -0.405+/-0.000 χ^2/NDF : 2864184872.2/47

Out: -0.407+/-0.000 χ^2/NDF : 2900418144.8/53

All: -0.406+/-0.000 χ^2/NDF : 5765029102.1/11

yield_bpm16X_rms vs Slug, Sign Corrected



Right In: 0.014+/-0.000 χ^2/NDF : 8245337.7/24

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

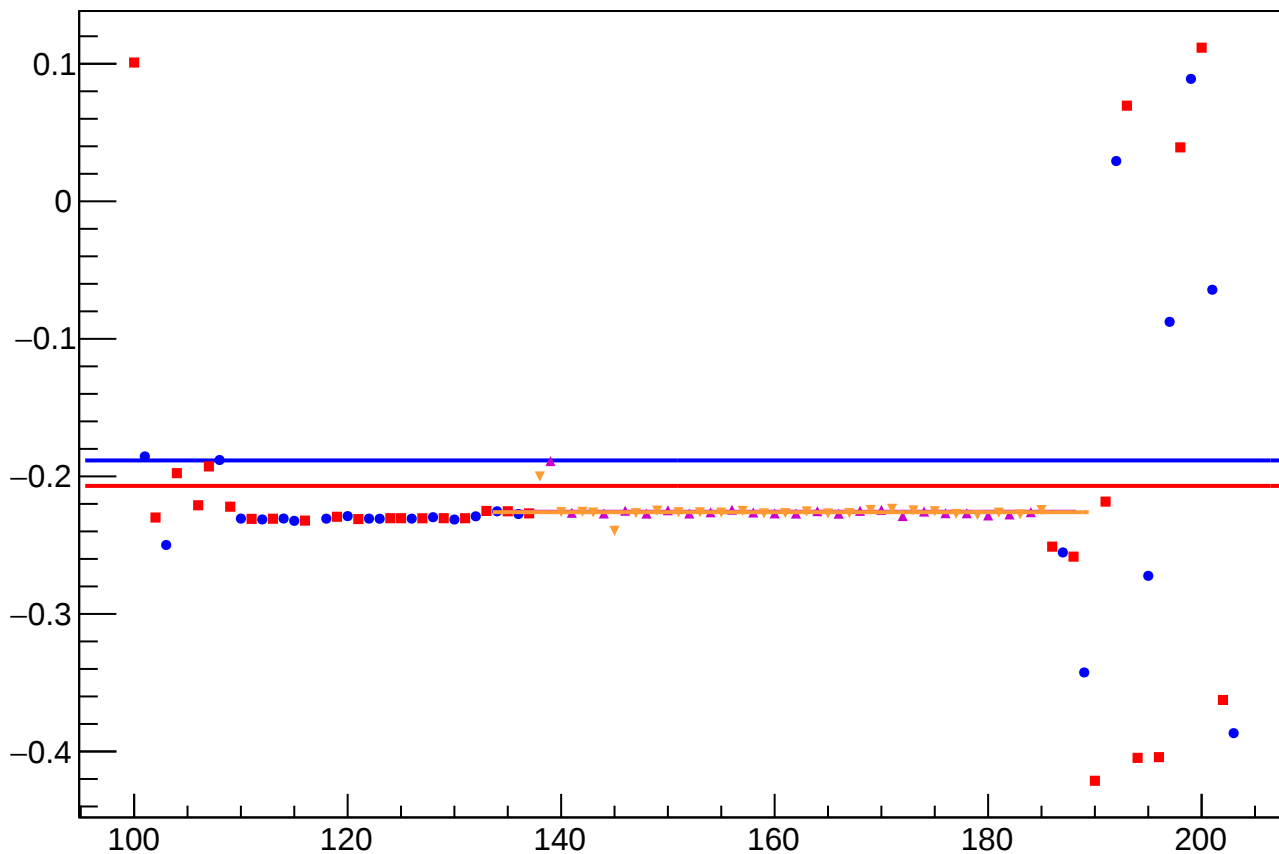
Right: 0.015+/-0.000 χ^2/NDF : 17492439.9/53

In: 0.011+/-0.000 χ^2/NDF : 10046286.6/47

Out: 0.011+/-0.000 χ^2/NDF : 11032086.5/53

All: 0.011+/-0.000 χ^2/NDF : 21082126.7/101

yield_bpm16Y_mean vs Slug, Sign Corrected



Right In: -0.188+/-0.000

χ^2/NDF : 5265641466.5/24

Left: -0.226+/-0.000

χ^2/NDF : 36480793.2/47

Left Out: -0.226+/-0.000

χ^2/NDF : 21205667.4/24

Right: -0.198+/-0.000

χ^2/NDF : 13210689809.9/53

Right Out: -0.207+/-0.000

χ^2/NDF : 7872325188.7/28

In: -0.211+/-0.000

χ^2/NDF : 5626358166.6/47

Out: -0.219+/-0.000

χ^2/NDF : 7990330980.2/53

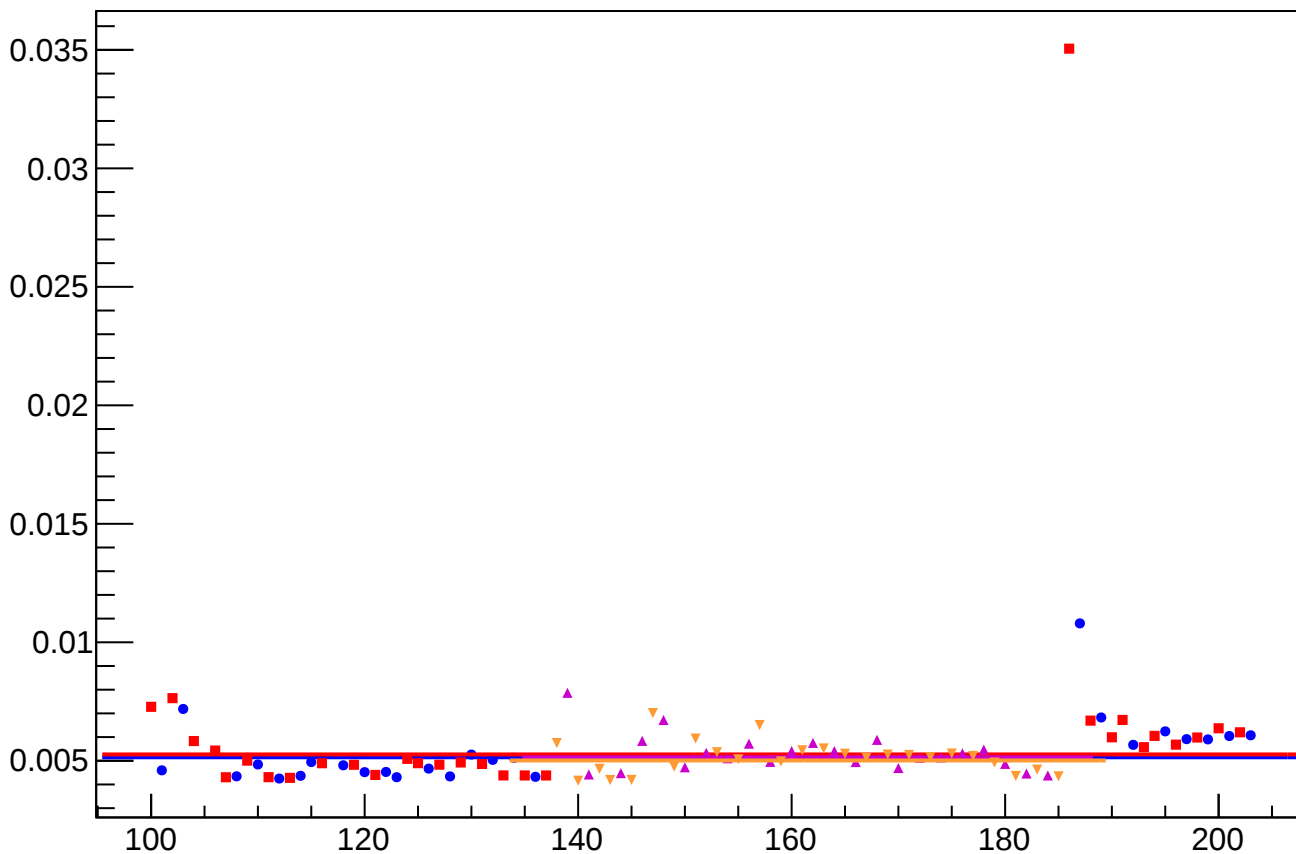
Left In: -0.226+/-0.000

χ^2/NDF : 15245251.1/22

All: -0.215+/-0.000

χ^2/NDF : 13650765369.3/100

yield_bpm16Y_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 611353.0/24

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

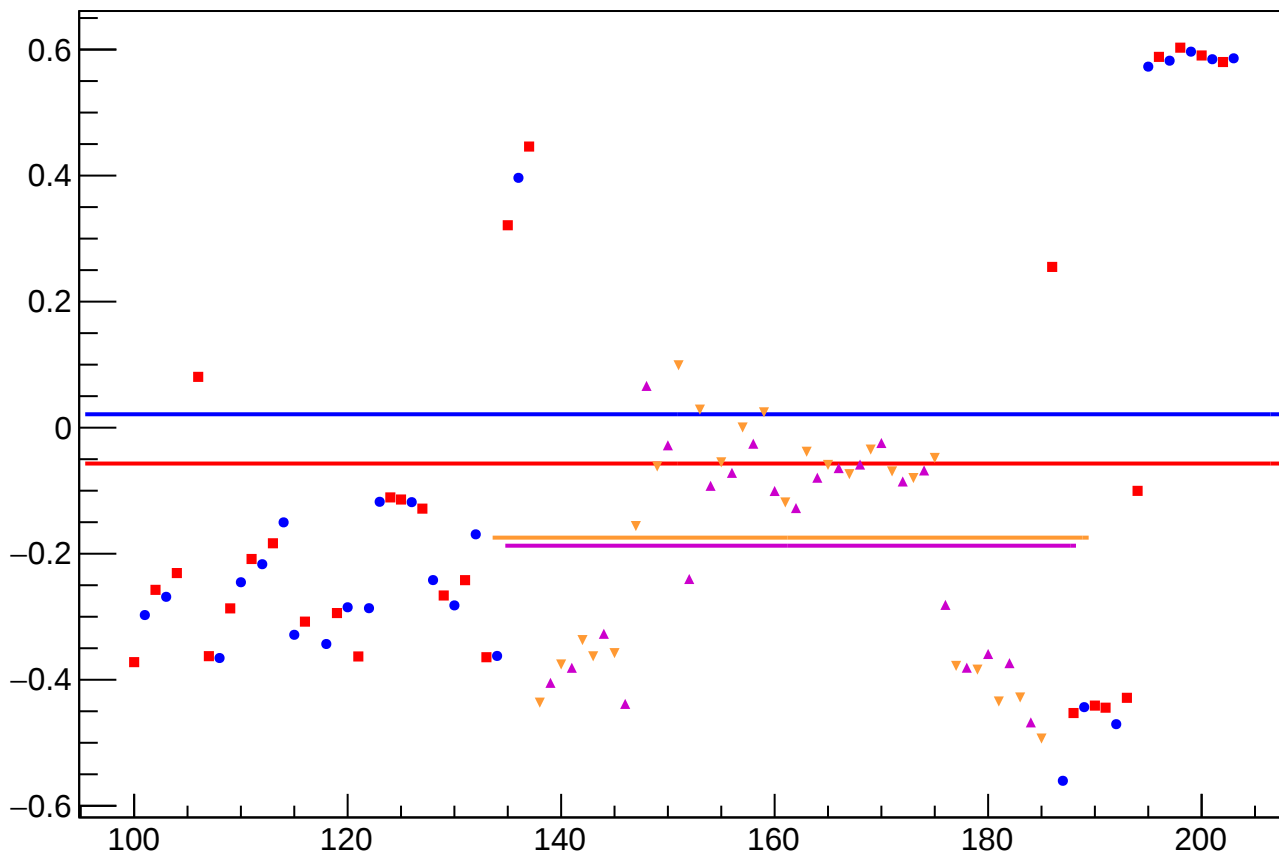
Right: 0.005+/-0.000 χ^2/NDF : 1747009.9/53

In: 0.005+/-0.000 χ^2/NDF :1104462.6/47

Out: 0.005+/-0.000 χ^2/NDF :1694484.1/53

All: 0.005+/-0.000 χ^2/NDF : 2800271.8/101

yield_bpm0i02X_mean vs Slug, Sign Corrected



Right In: 0.021+/-0.000

χ^2/NDF : 47330106931.0/24

Left: -0.181+/-0.000

χ^2/NDF : 30888184231.6/47

Left Out: -0.174+/-0.000

χ^2/NDF : 18025533236.1/24

Right: -0.020+/-0.000

χ^2/NDF : 90467324287.2/53

Right Out: -0.057+/-0.000

χ^2/NDF : 42309020863.7/28

In: -0.121+/-0.000

χ^2/NDF : 67721979059.0/47

Out: -0.135+/-0.000

χ^2/NDF : 62994056321.7/53

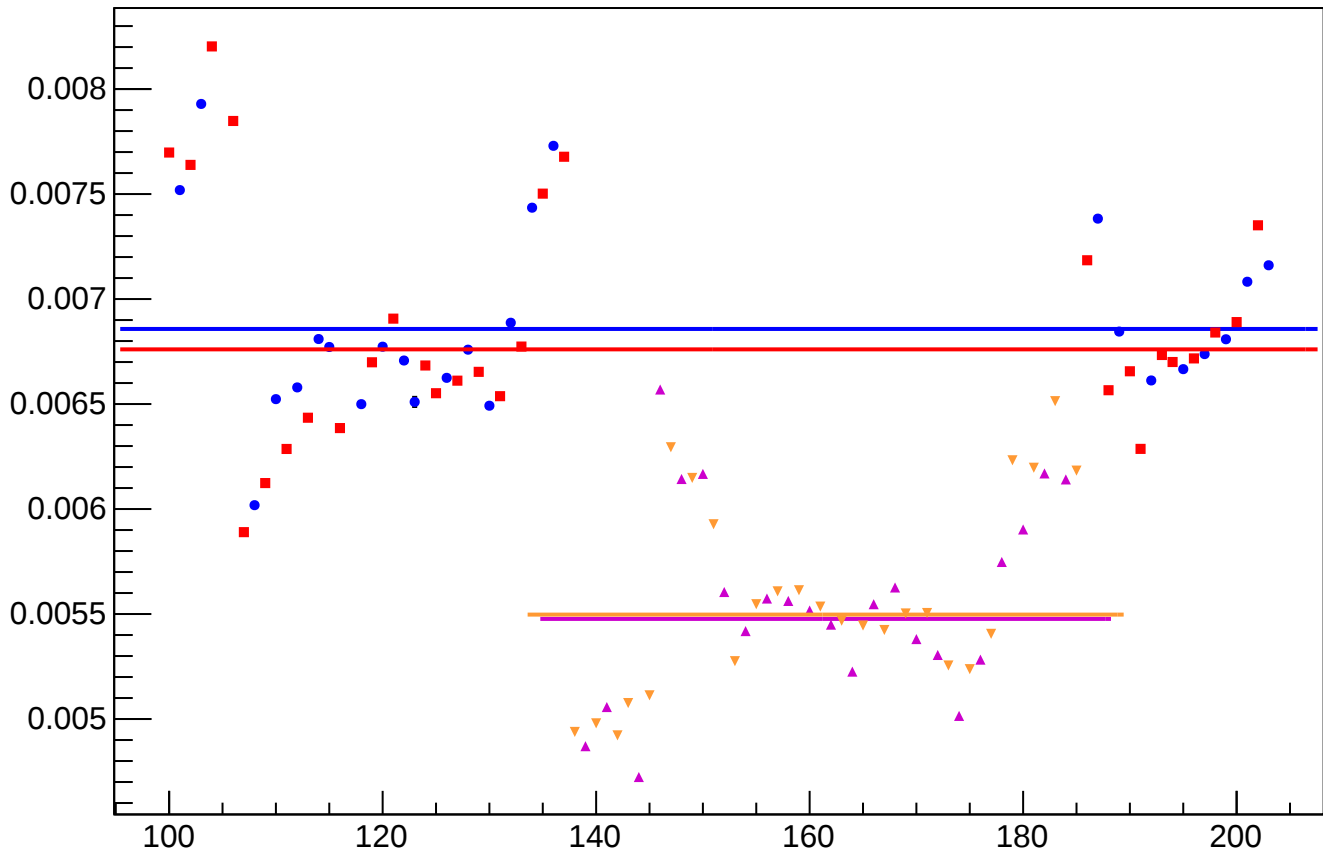
Left In: -0.187+/-0.000

χ^2/NDF : 12816646575.4/22

All: -0.128+/-0.000

χ^2/NDF : 130802936781.4

yield_bpm0i02X_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 89007.2/24

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

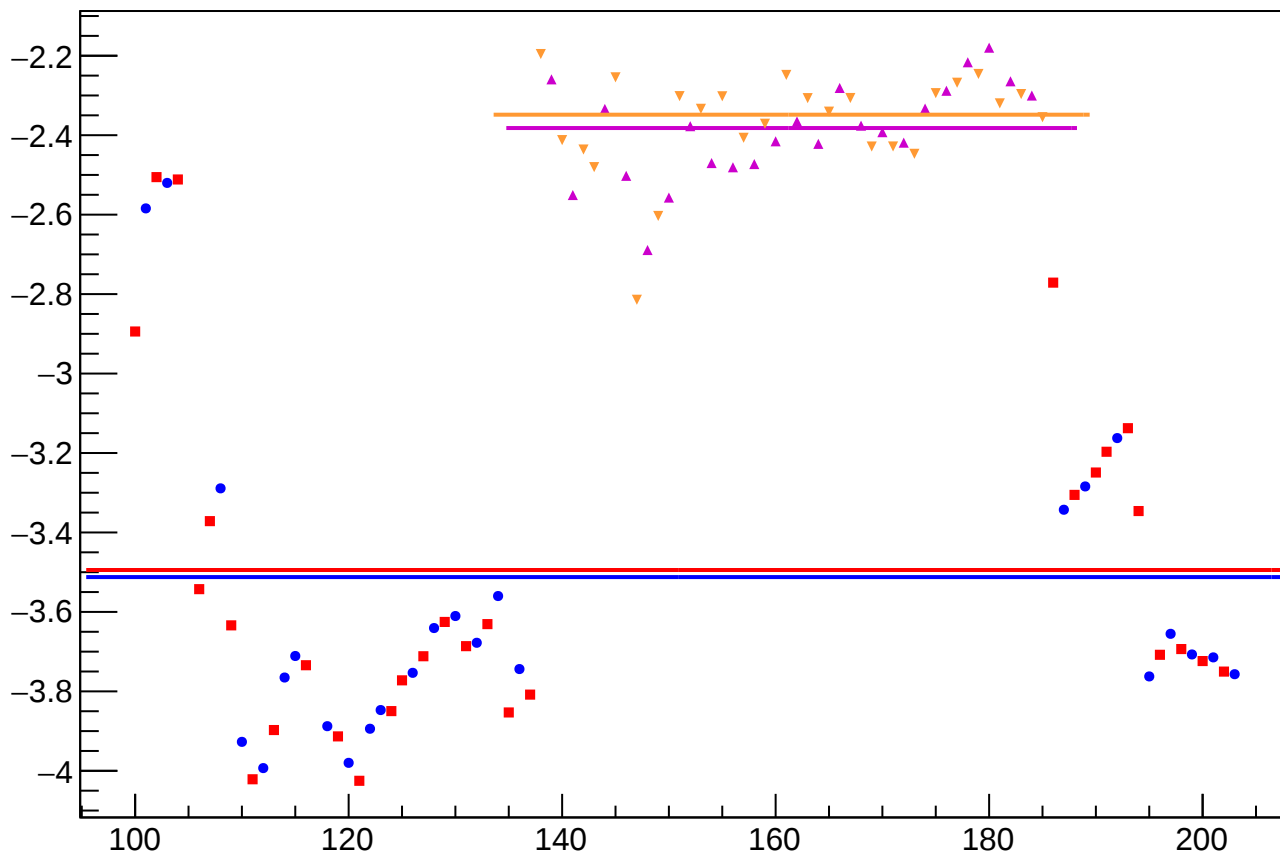
Right: 0.007+/-0.000 χ^2/NDF : 211796.7/53

In: 0.006+/-0.000 χ^2/NDF :955380.7/47

Out: 0.006+/-0.000 χ^2/NDF :932865.4/53

All: 0.006+/-0.000 χ^2/NDF : 1888248.1/101

yield_bpm0i02Y_mean vs Slug, Sign Corrected



Right In: -3.512+/-0.000 χ^2/NDF : 29508929576.2/24

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

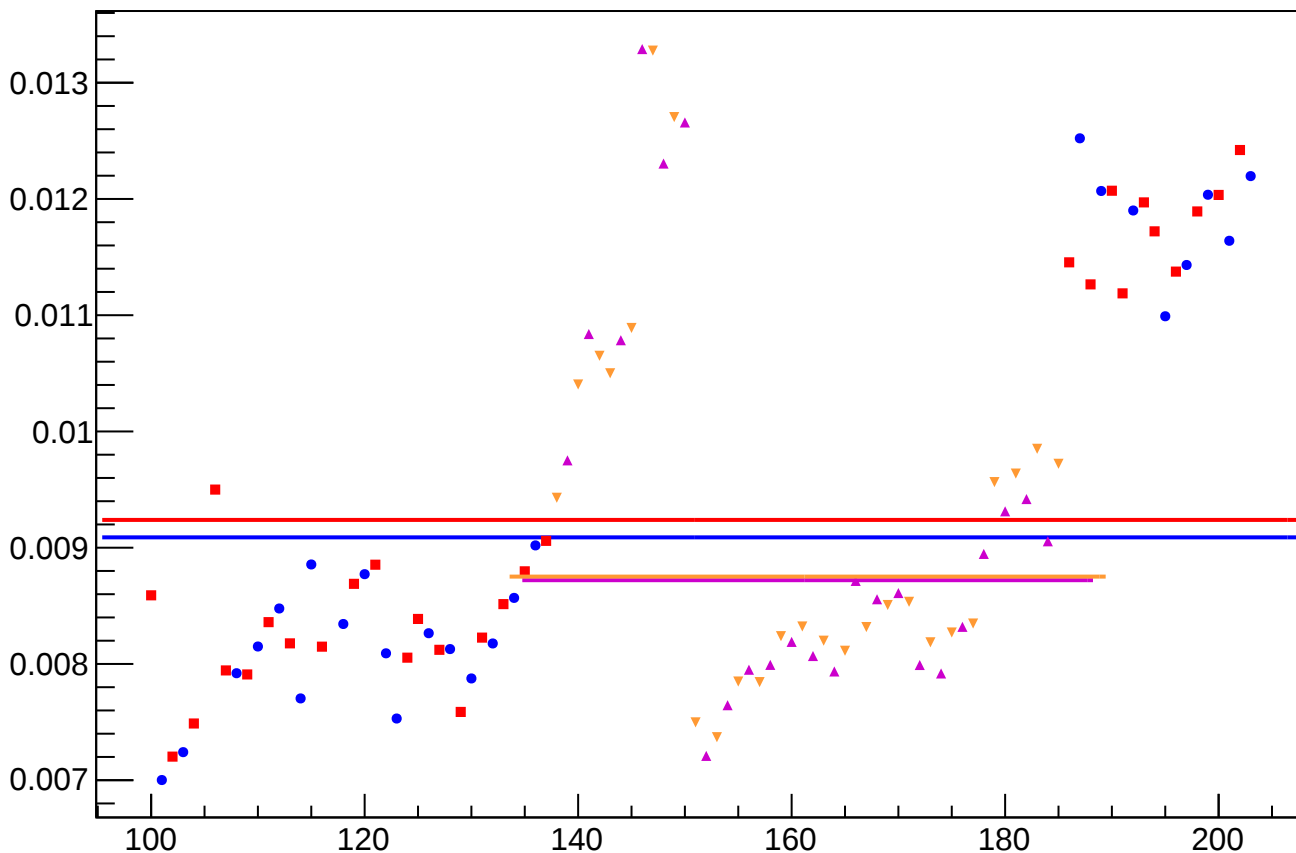
Right: -3.503+/-0.000 χ^2/NDF : 59850910129.9/53

In: -2.829+/-0.000 χ^2/NDF : 139573883359.8/47

Out: -2.803+/-0.000 χ^2/NDF : 149664277831.5/53

All: -2.815+/-0.000 χ^2/NDF : 289358731190.0

yield_bpm0i02Y_rms vs Slug, Sign Corrected



Right In: 0.009+/-0.000 χ^2/NDF : 853618.5/24

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

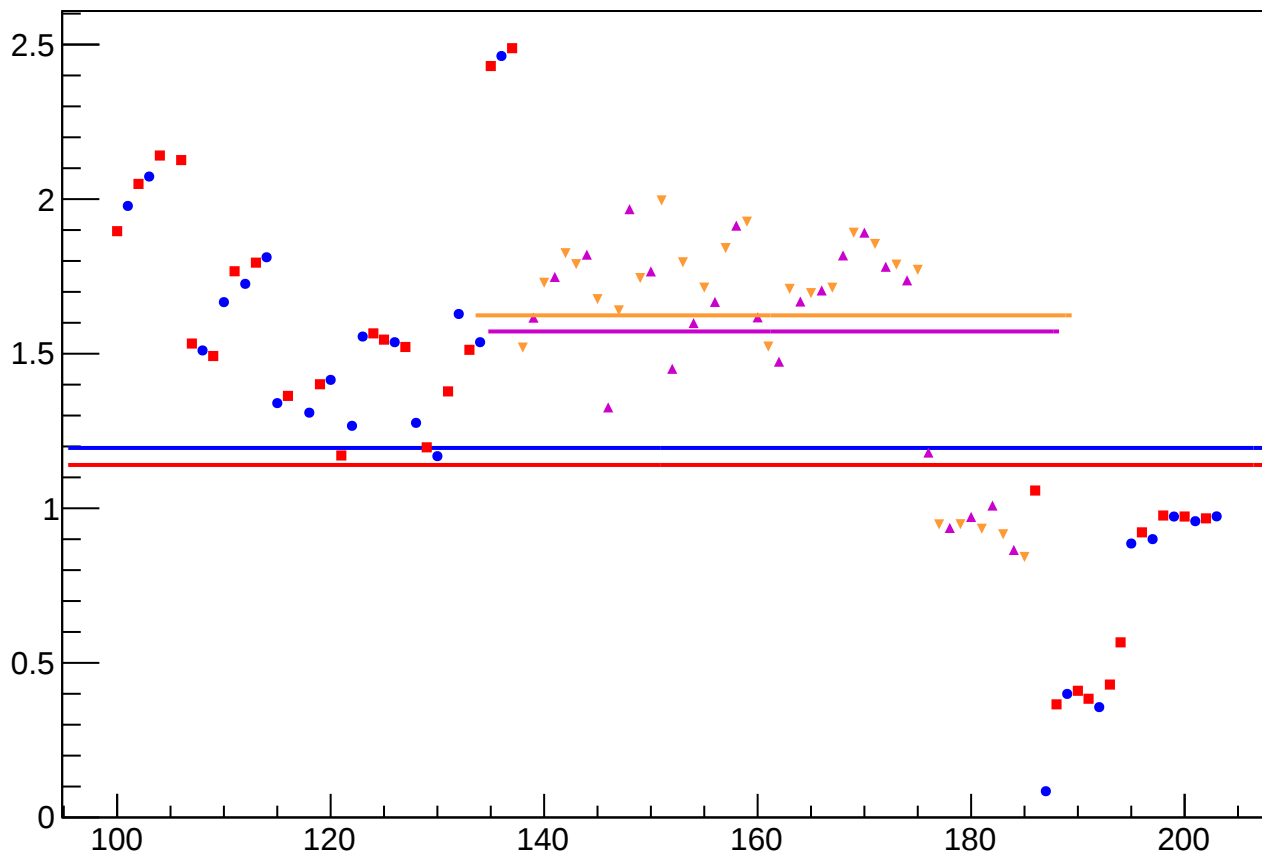
Right: 0.009+/-0.000 χ^2/NDF : 1740809.9/53

In: 0.009+/-0.000 χ^2/NDF :1624386.8/47

Out: 0.009+/-0.000 χ^2/NDF :1590052.9/53

All: 0.009+/-0.000 χ^2/NDF : 3216682.5/101

yield_bpm0i02aX_mean vs Slug, Sign Corrected



Right In: 1.195 $\pm$ 0.000 χ^2 /NDF: 27113129985.1/24

Left Out: 1.624 $\pm$ 0.000 χ^2 /NDF: 16631112386.4/24

Right Out: 1.140 $\pm$ 0.000 χ^2 /NDF: 32493599579.6/28

Left In: 1.572 $\pm$ 0.000 χ^2 /NDF: 14230484809.4/22

Left: 1.599 $\pm$ 0.000 χ^2 /NDF: 31067753064.6/47

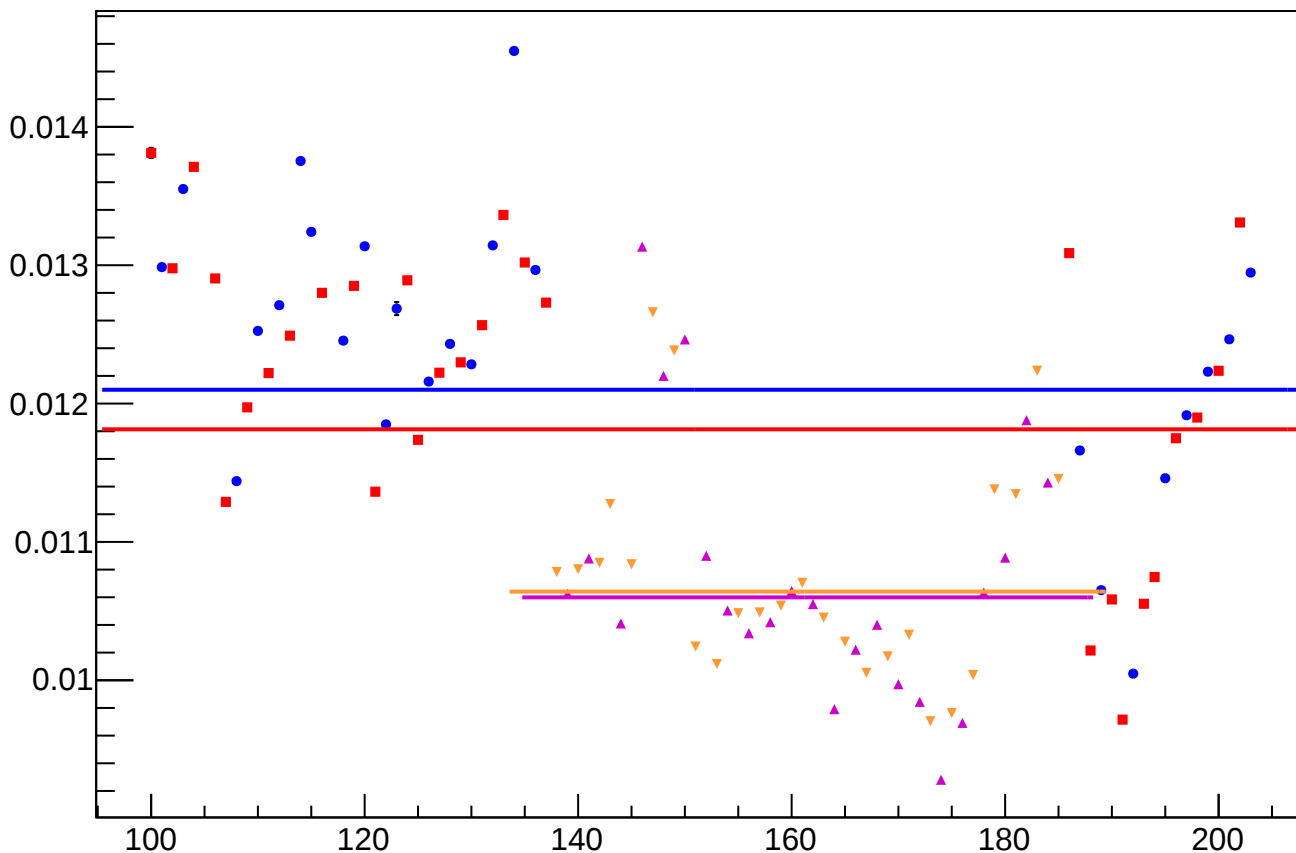
Right: 1.166 $\pm$ 0.000 χ^2 /NDF: 59738731332.6/53

In: 1.438 $\pm$ 0.000 χ^2 /NDF: 48793589733.9/47

Out: 1.443 $\pm$ 0.000 χ^2 /NDF: 62829356089.6/53

All: 1.440 $\pm$ 0.000 χ^2 /NDF: 111625327505.6

yield_bpm0i02aX_rms vs Slug, Sign Corrected



Right In: 0.012+/-0.000 χ^2/NDF : 164379.3/24

Left Out: 0.011+/-0.000 χ^2/NDF :159760.9/24

Right Out: 0.012+/-0.000 χ^2/NDF : 211087.9/28

Left In: 0.011+/-0.000 χ^2/NDF :204531.5/22

Left: 0.011+/-0.000 χ^2/NDF : 364556.9/47

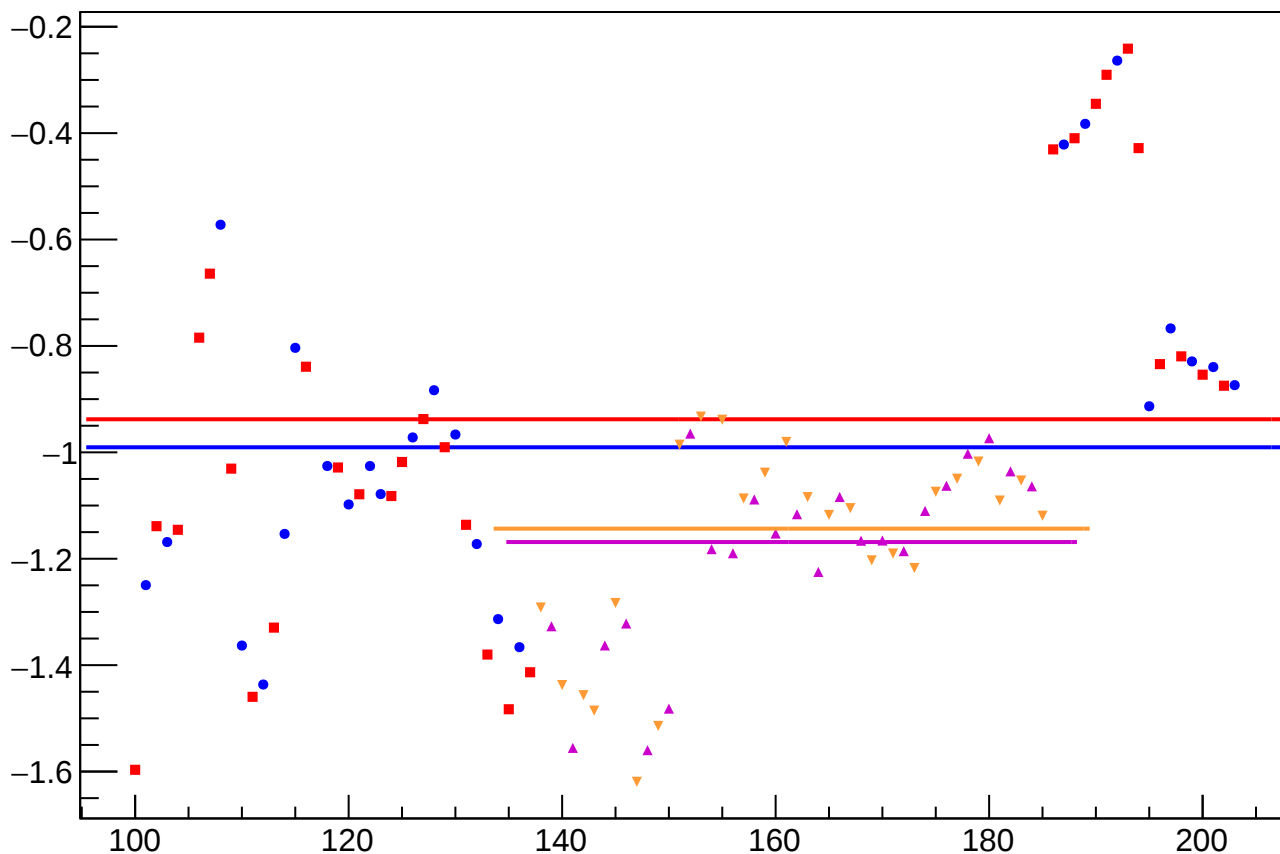
Right: 0.012+/-0.000 χ^2/NDF : 382588.1/53

In: 0.011+/-0.000 χ^2/NDF :605317.2/47

Out: 0.011+/-0.000 χ^2/NDF :531892.0/53

All: 0.011+/-0.000 χ^2/NDF : 1137841.5/101

yield_bpm0i02aY_mean vs Slug, Sign Corrected



Right In: -0.990 ± 0.000 $\chi^2/\text{NDF}: 10806590123.0/24$

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 $\chi^2/\text{NDF}: 14424995220.9/47$

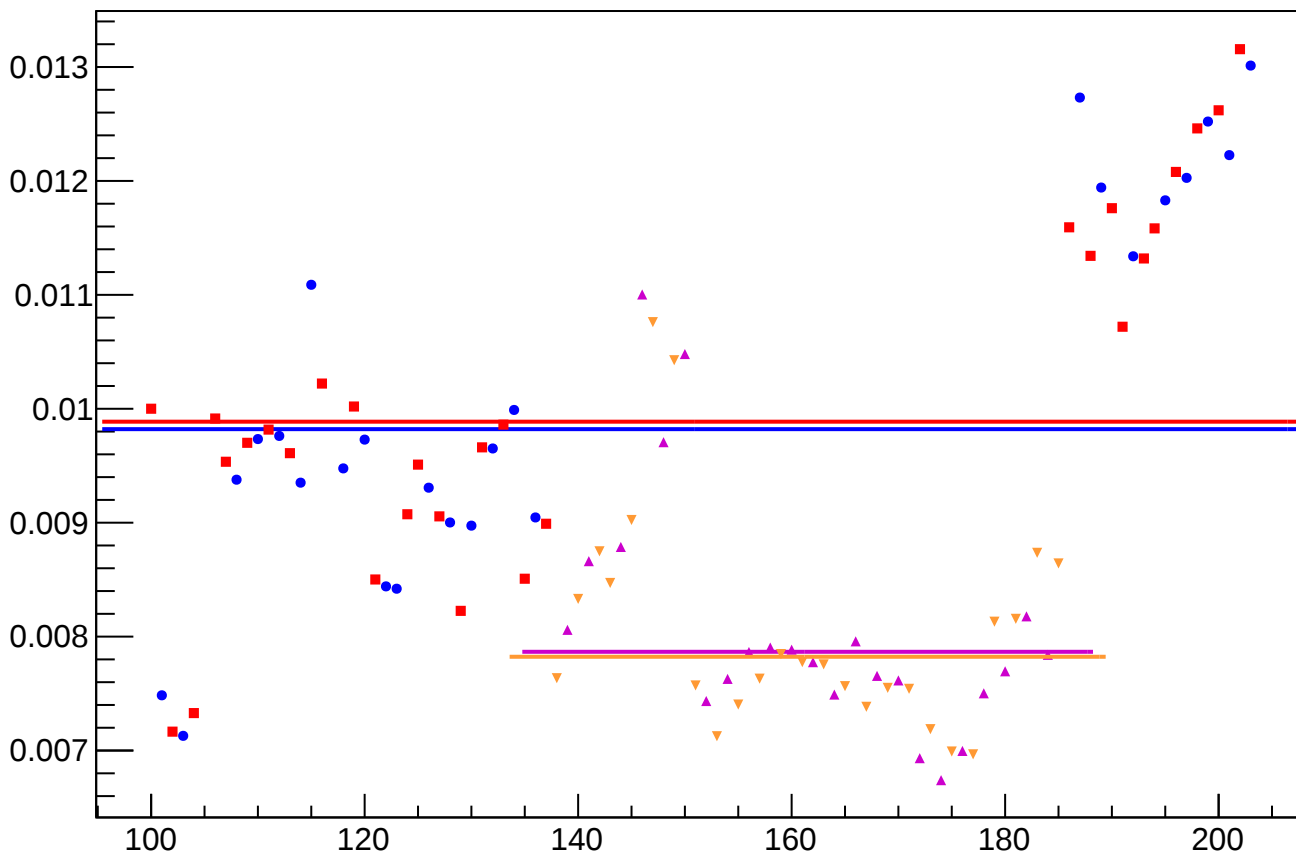
Right: -0.963 ± 0.000 $\chi^2/\text{NDF}: 26732776087.2/53$

In: -1.113 ± 0.000 $\chi^2/\text{NDF}: 19761802919.9/47$

Out: -1.079 ± 0.000 $\chi^2/\text{NDF}: 27452067781.3/53$

All: -1.095 ± 0.000 $\chi^2/\text{NDF}: 47445862641.7/100$

yield_bpm0i02aY_rms vs Slug, Sign Corrected



Right In: 0.010+/-0.000 χ^2/NDF : 724975.0/24

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

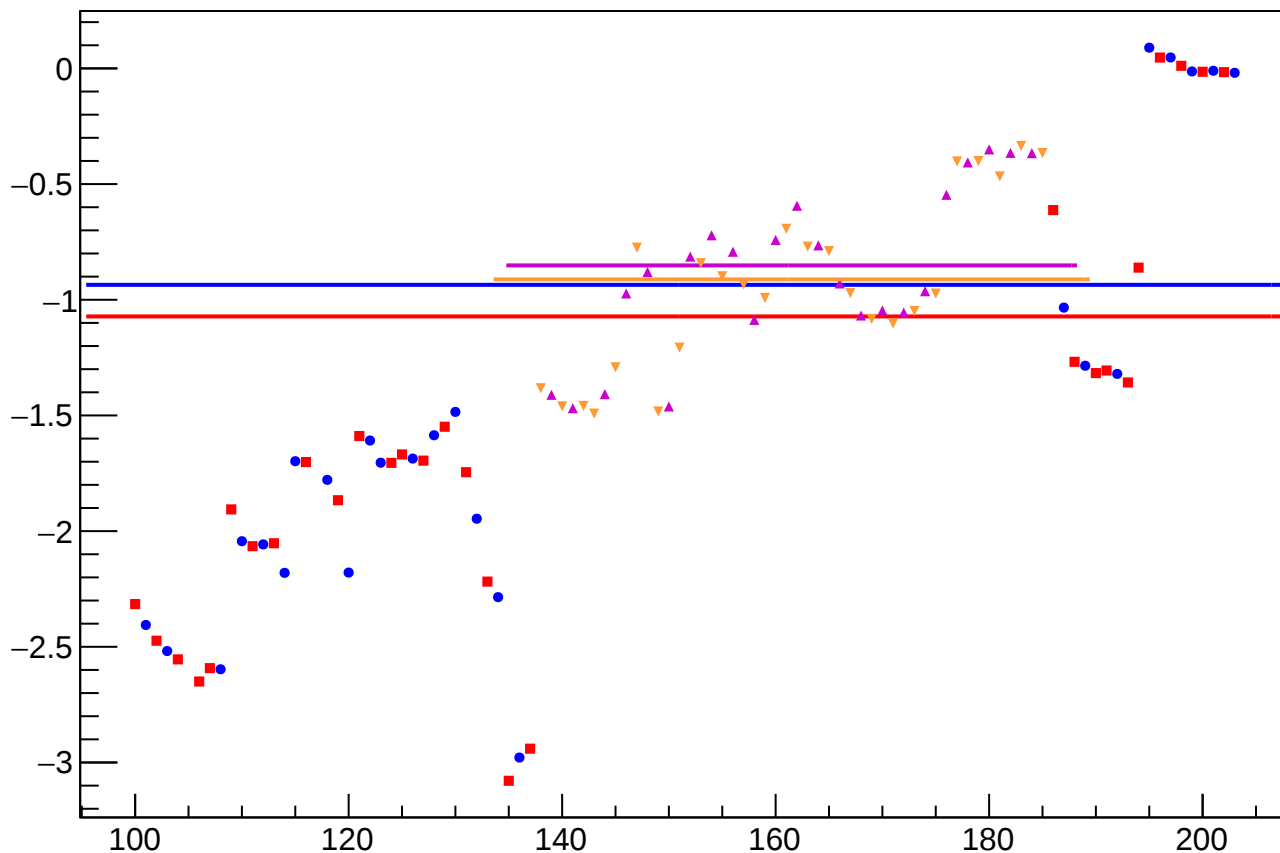
Right: 0.010+/-0.000 χ^2/NDF : 1460801.7/53

In: 0.008+/-0.000 χ^2/NDF :1729174.2/47

Out: 0.008+/-0.000 χ^2/NDF :1821526.2/53

All: 0.008+/-0.000 χ^2/NDF : 3550707.1/101

yield_bpm0i05X_mean vs Slug, Sign Corrected



Left: -0.882±/-0.000 χ^2/NDF : 96285672564.6/47
 Right: -1.010±/-0.000 χ^2/NDF : 619709739746.4/53
 In: -0.884±/-0.000 χ^2/NDF : 358511591714.8/47
 Out: -0.981±/-0.000 χ^2/NDF : 359942229261.4/53
 All: -0.935±/-0.000 χ^2/NDF : 721953871761.8

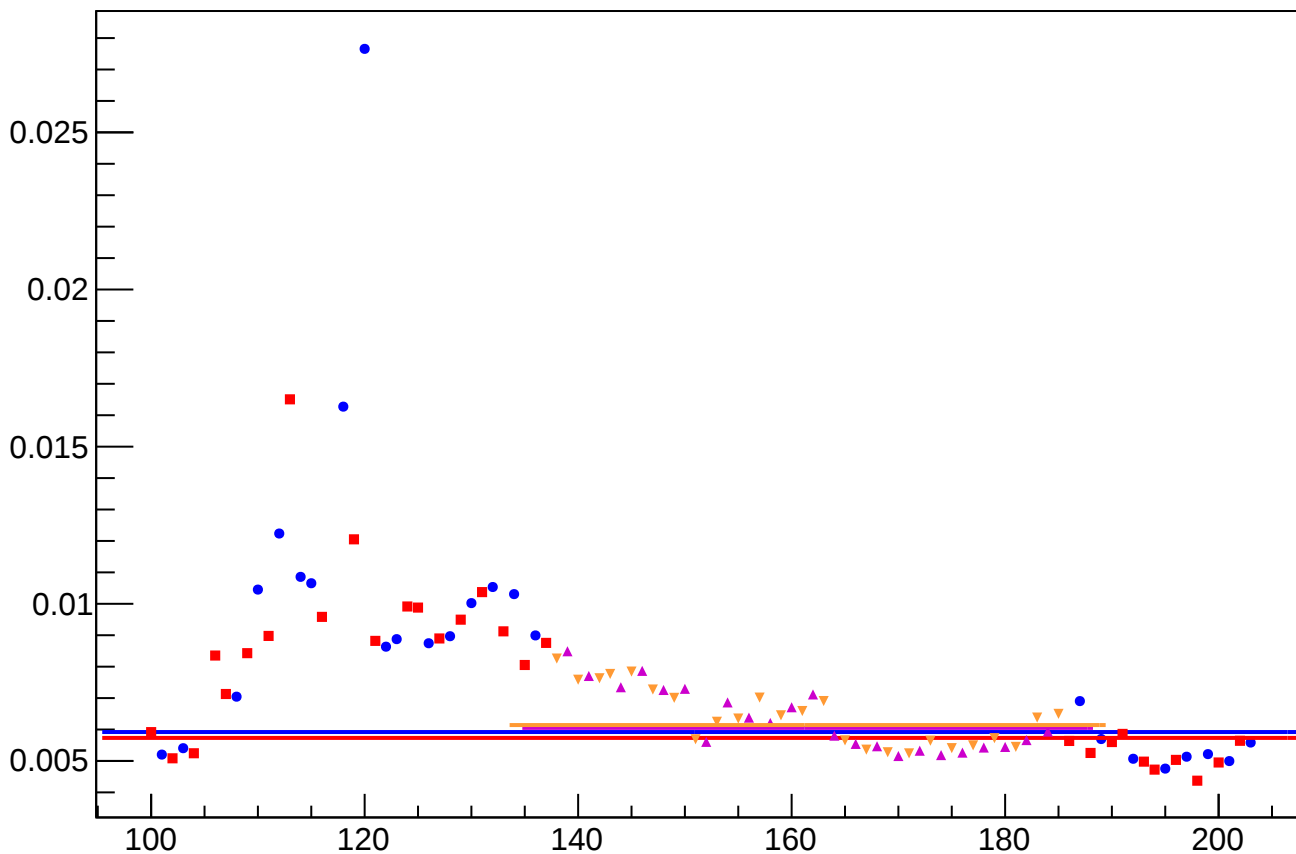
Right In: -0.935±/-0.000 χ^2/NDF : 310872491750.4/24

Left Out: -0.912±/-0.000 χ^2/NDF : 49039425818.1/24

Right Out: -1.072±/-0.000 χ^2/NDF : 305984042210.8/28

Left In: -0.851±/-0.000 χ^2/NDF : 46438446008.2/22

yield_bpm0i05X_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 1943804.6/24

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

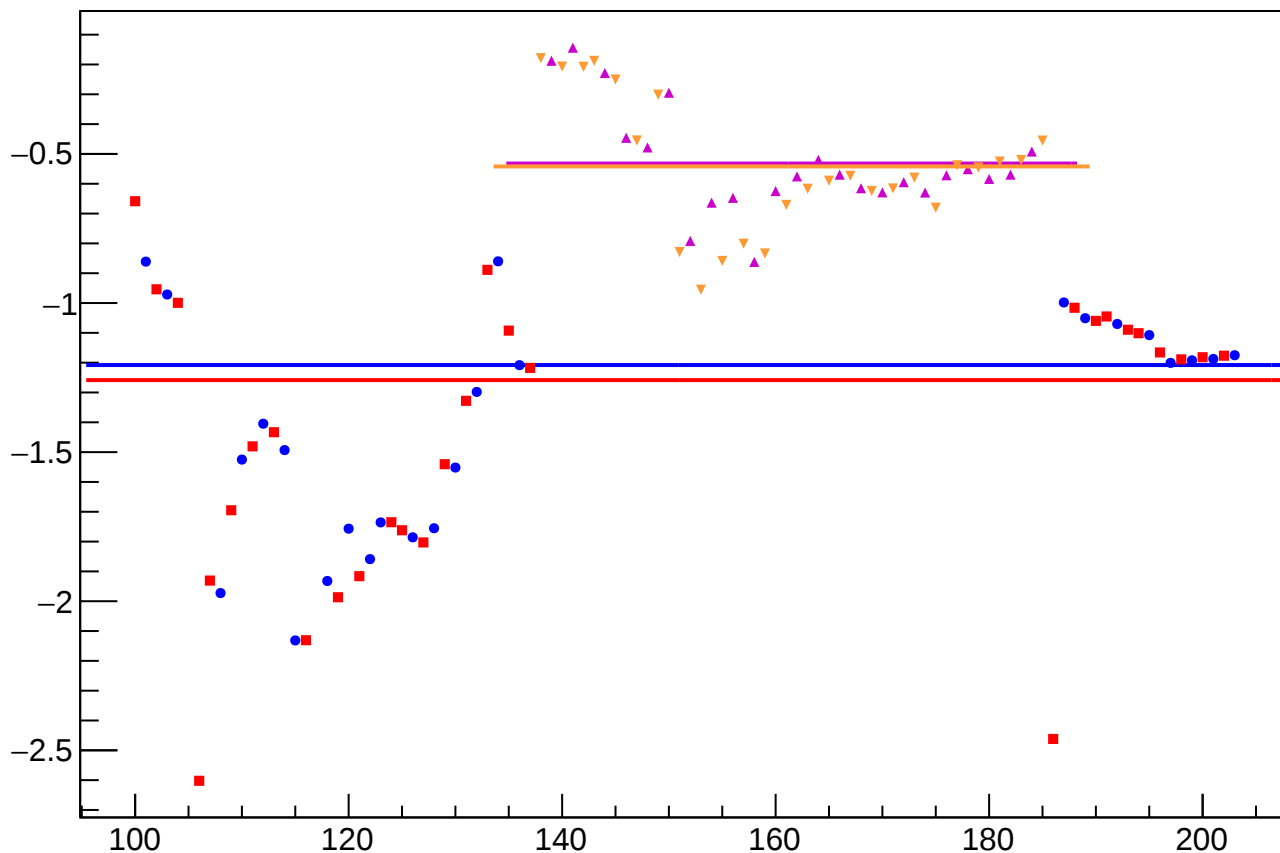
Right: 0.006+/-0.000 χ^2/NDF : 3832762.1/53

In: 0.006+/-0.000 χ^2/NDF : 2647359.8/47

Out: 0.006+/-0.000 χ^2/NDF : 2580267.3/53

All: 0.006+/-0.000 χ^2/NDF : 5228544.0/101

yield_bpm0i05Y_mean vs Slug, Sign Corrected



Right In: -1.208 $\pm$ 0.000 χ^2 /NDF: 26287723012.4/24

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

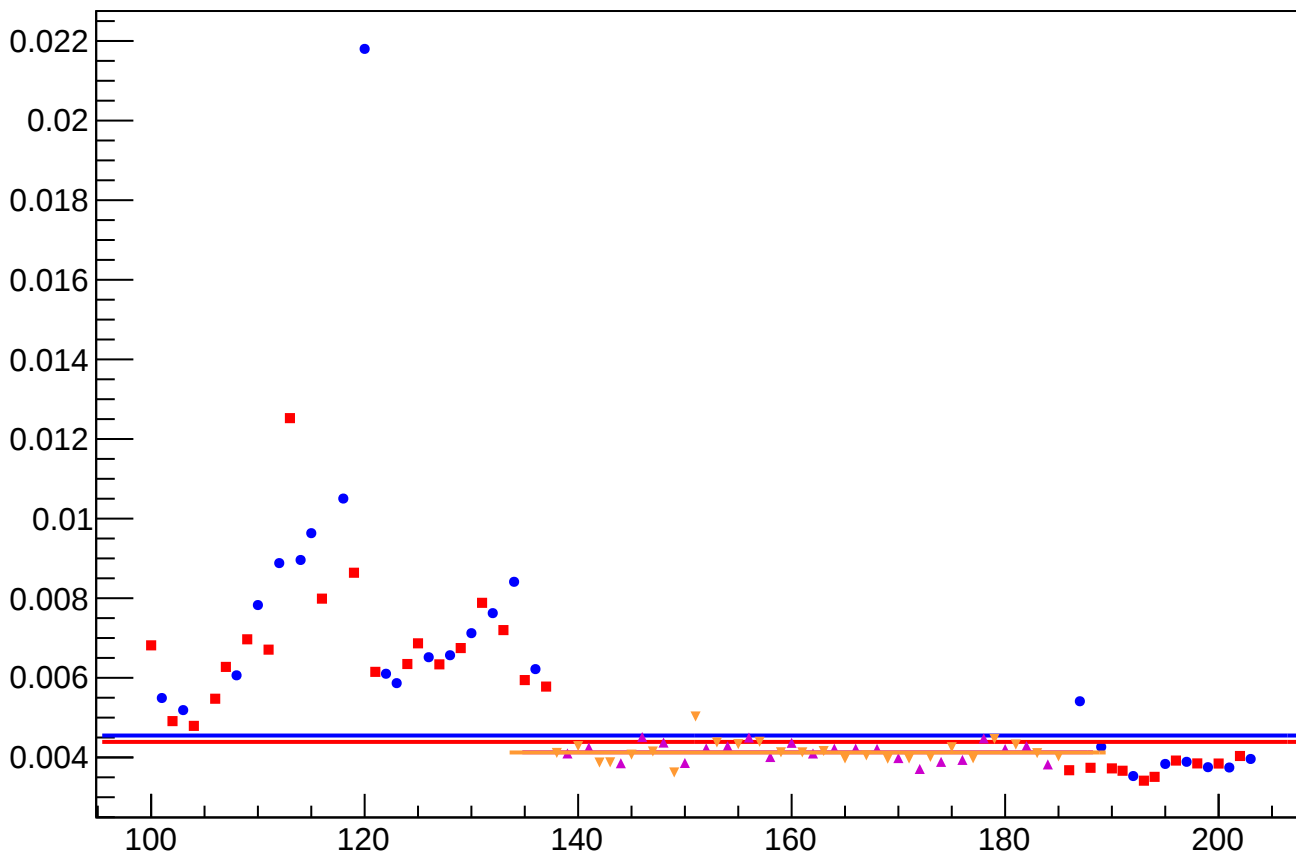
Right: -1.236 $\pm$ 0.000 χ^2 /NDF: 105482865793.2/53

In: -0.759 $\pm$ 0.000 χ^2 /NDF: 200276698538.6/47

Out: -0.803 $\pm$ 0.000 χ^2 /NDF: 311322230061.2/53

All: -0.782 $\pm$ 0.000 χ^2 /NDF: 513053921514.0

yield_bpm0i05Y_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 1934538.3/24

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

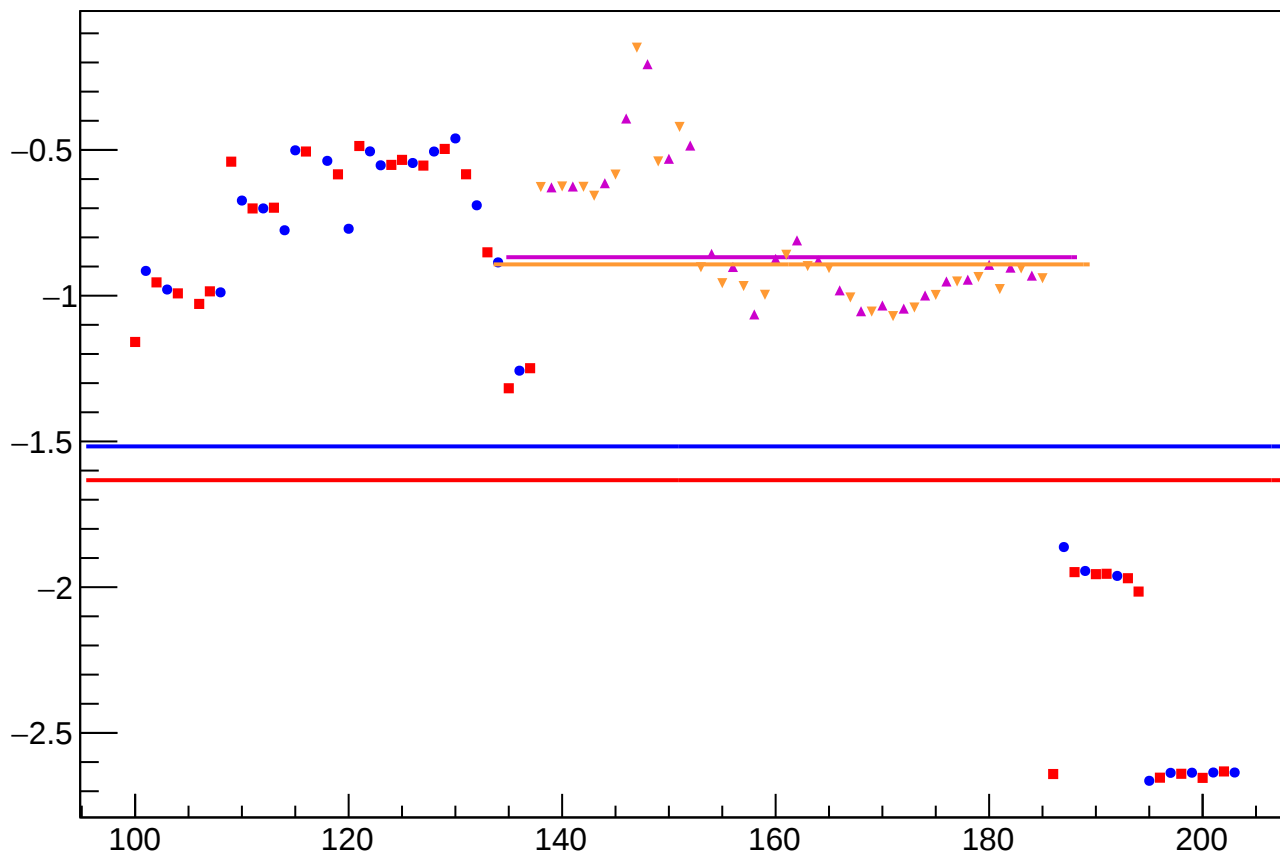
Right: 0.004+/-0.000 χ^2/NDF : 3774464.1/53

In: 0.004+/-0.000 χ^2/NDF :2138601.8/47

Out: 0.004+/-0.000 χ^2/NDF :1990722.8/53

All: 0.004+/-0.000 χ^2/NDF : 4132938.9/101

yield_bpm0i07X_mean vs Slug, Sign Corrected



Right In: -1.517+/-0.000

χ²/NDF: 216190077231.0/24

Left: -0.880+/-0.000

χ²/NDF: 84980637247.0/47

Left Out: -0.893+/-0.000

χ²/NDF: 40787012603.8/24

Right: -1.586+/-0.000

χ²/NDF: 499777016387.6/53

Right Out: -1.633+/-0.000

χ²/NDF: 280267222935.0/28

In: -1.045+/-0.000

χ²/NDF: 388010364575.6/47

Out: -1.152+/-0.000

χ²/NDF: 536867881596.5/53

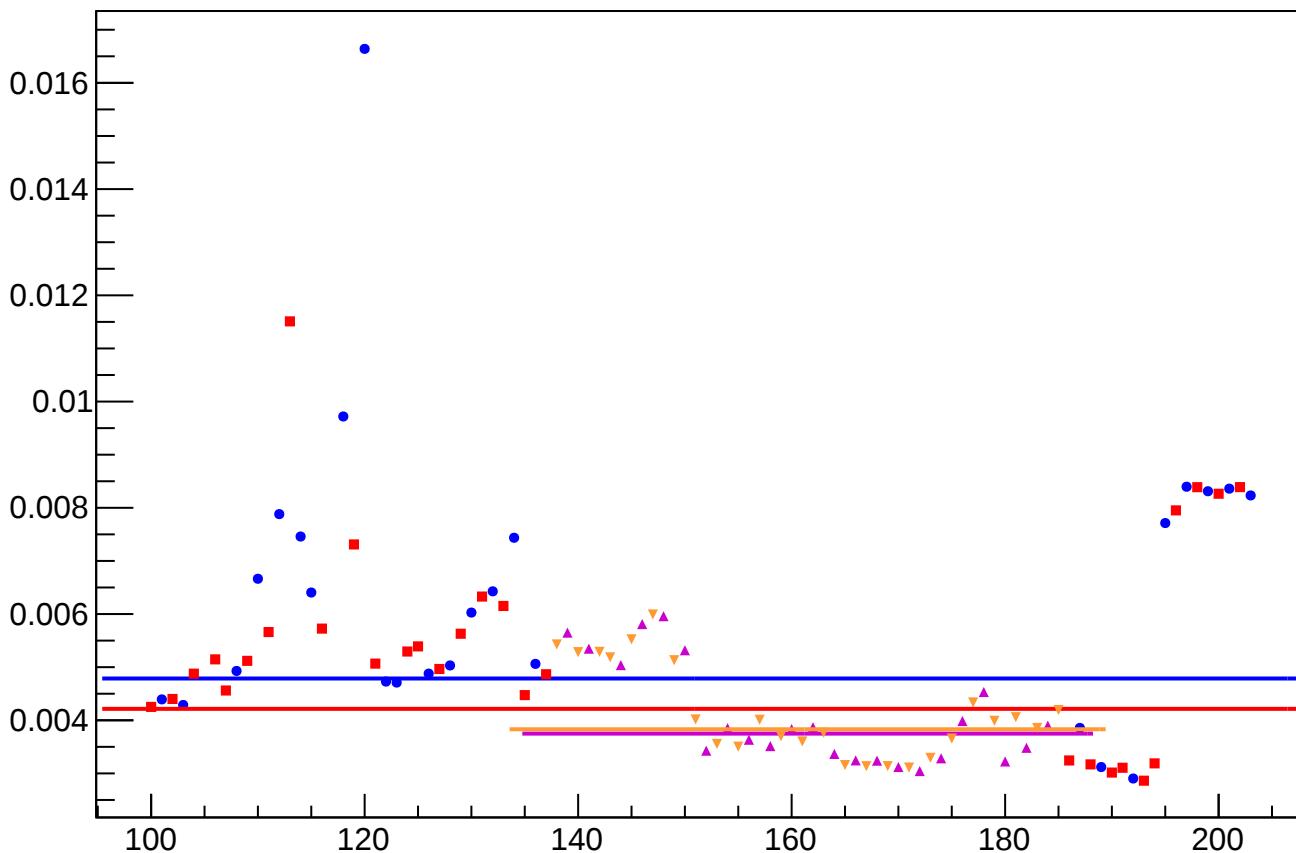
Left In: -0.868+/-0.000

χ²/NDF: 43853190177.2/22

All: -1.101+/-0.000

χ²/NDF: 934185380184.6

yield_bpm0i07X_rms vs Slug, Sign Corrected



Right In: 0.005 $\pm$ 0.000 χ^2 /NDF: 3135994.4/24

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

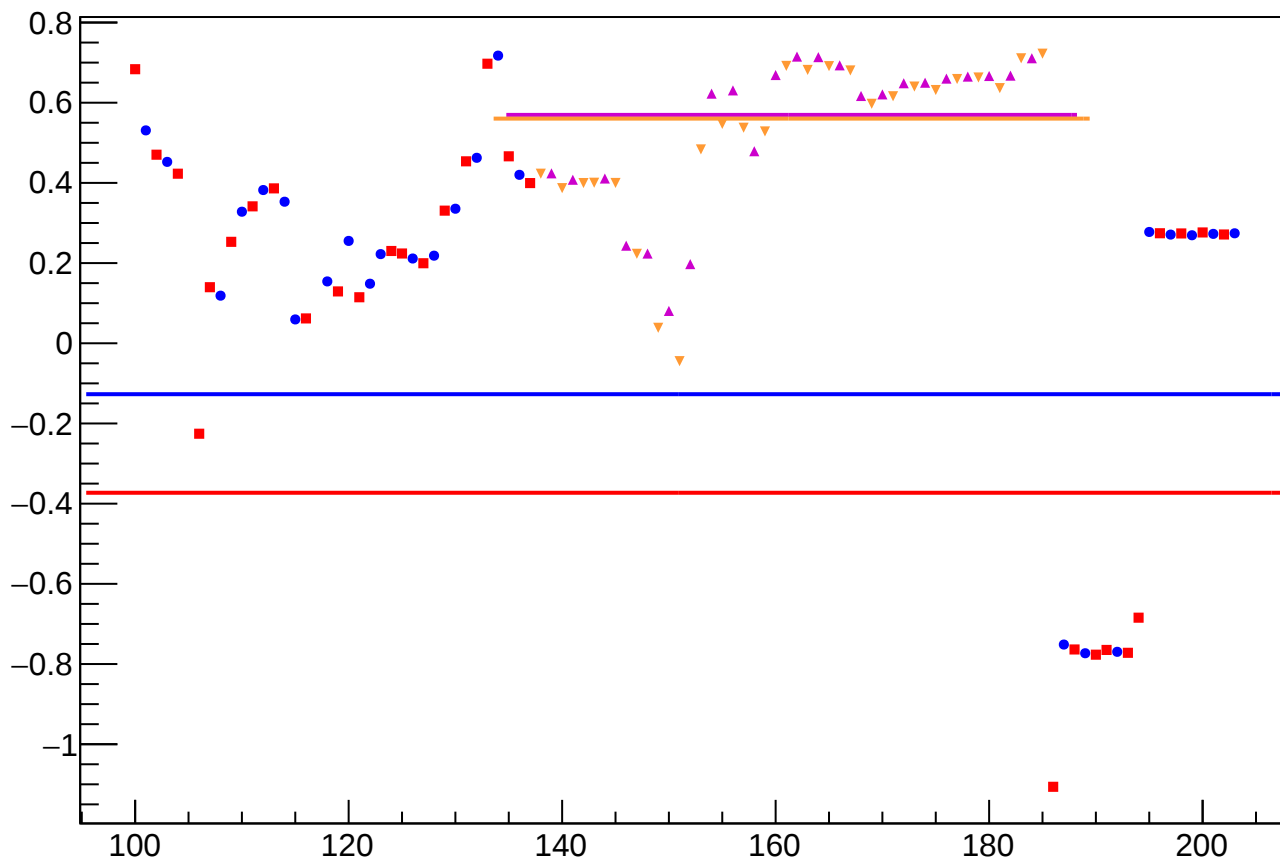
Right: 0.004 $\pm$ 0.000 χ^2 /NDF: 6348726.1/53

In: 0.004 $\pm$ 0.000 χ^2 /NDF:5078402.2/47

Out: 0.004 $\pm$ 0.000 χ^2 /NDF:4347643.5/53

All: 0.004 $\pm$ 0.000 χ^2 /NDF: 9433146.2/101

yield_bpm0i07Y_mean vs Slug, Sign Corrected



Right In: -0.127+/-0.000 χ^2/NDF : 272161626705.3/24

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

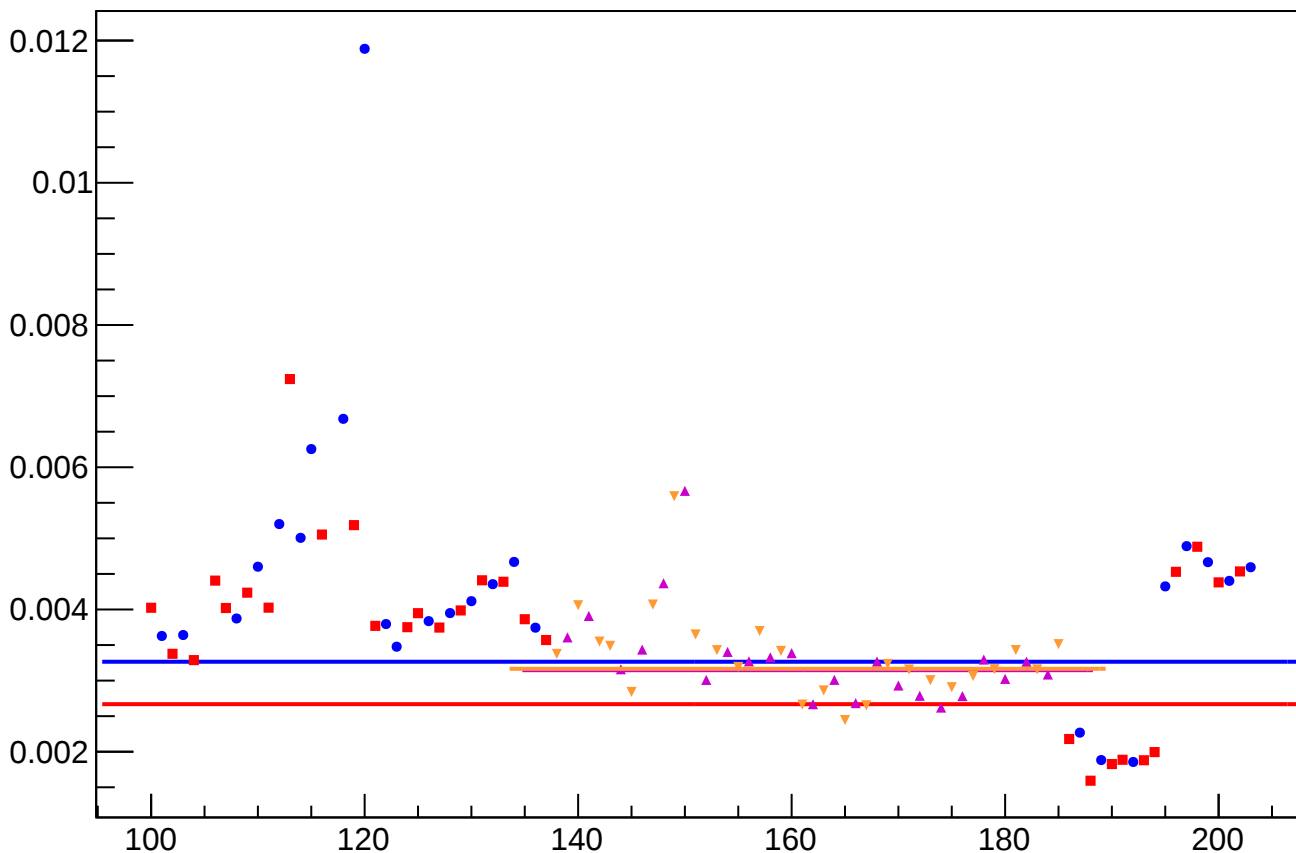
Right: -0.277+/-0.000 χ^2/NDF : 729588881654.0/53

In: 0.312+/-0.000 χ^2/NDF : 593436288460.2/47

Out: 0.122+/-0.000 χ^2/NDF : 1131601590687.0/53

All: 0.207+/-0.000 χ^2/NDF : 1774724325686.0

yield_bpm0i07Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 2957545.7/24

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

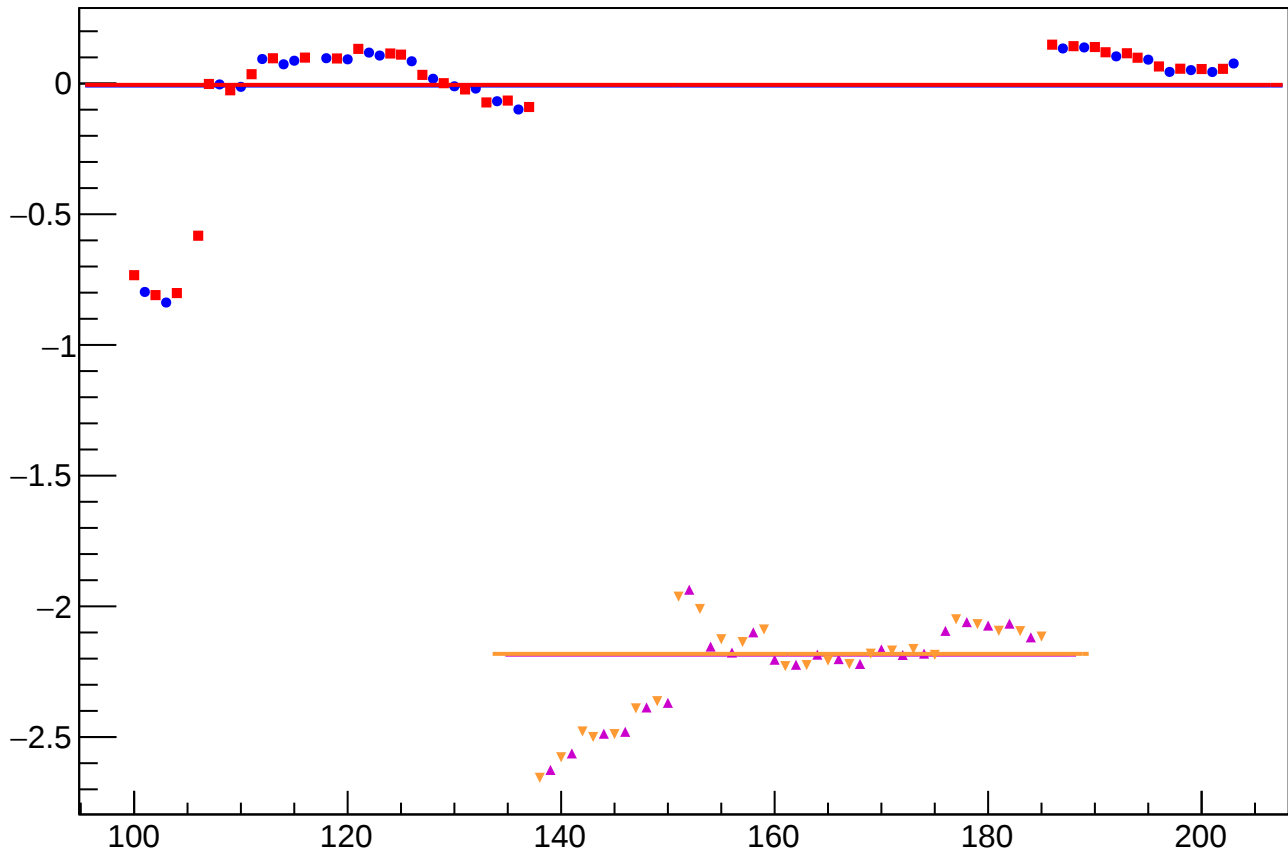
Right: 0.003+/-0.000 χ^2/NDF : 7263321.5/53

In: 0.003+/-0.000 χ^2/NDF : 3690203.6/47

Out: 0.003+/-0.000 χ^2/NDF : 5030227.9/53

All: 0.003+/-0.000 χ^2/NDF : 8902336.1/101

yield_bpm1i02X_mean vs Slug, Sign Corrected



Right In: -0.008+/-0.000 χ^2/NDF : 5772562893.7/24

Left Out: -2.182+/-0.000 χ^2/NDF : 4008829567.0/24

Right Out: -0.005+/-0.000 χ^2/NDF : 6861828982.8/28

Left In: -2.185+/-0.000 χ^2/NDF : 3372742534.3/22

Left: -2.183+/-0.000 χ^2/NDF : 7382310821.5/47

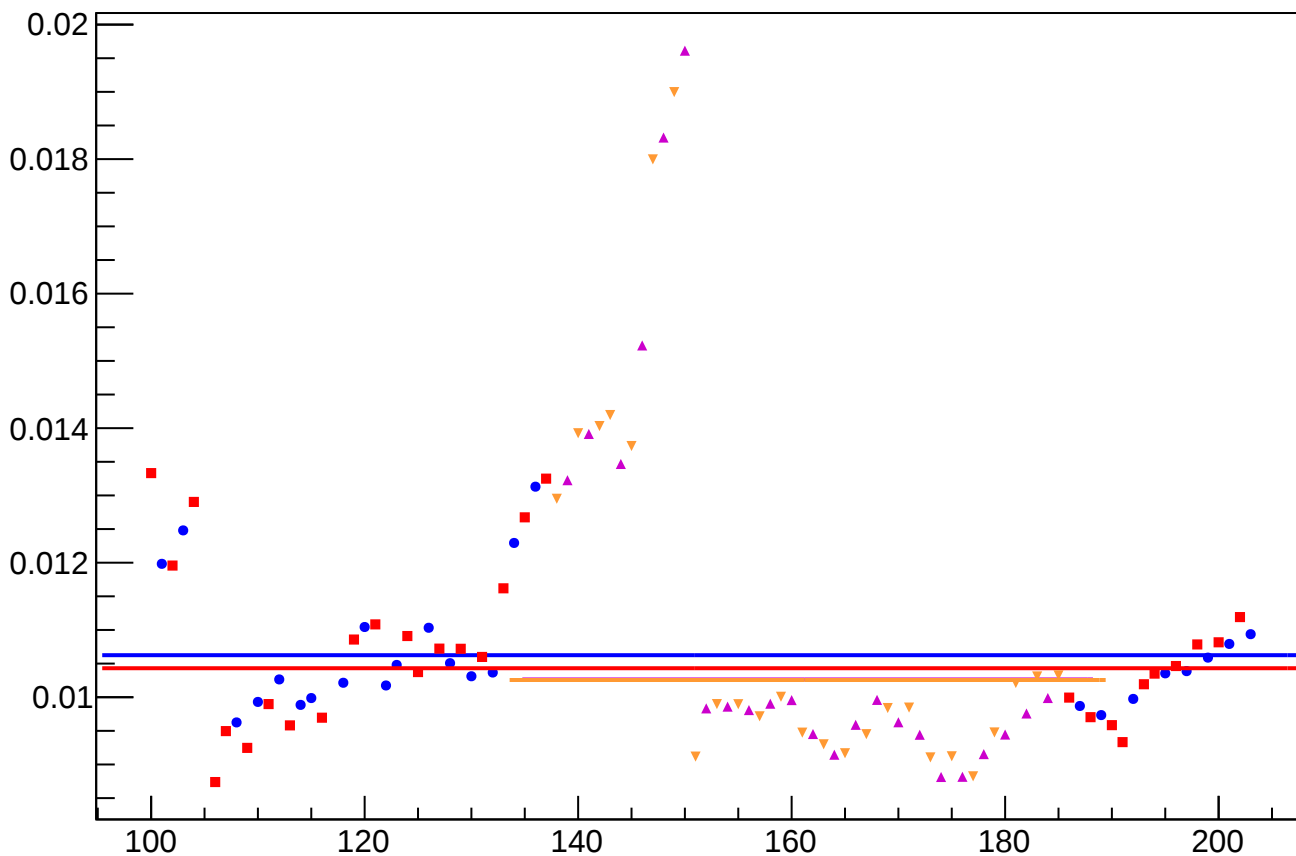
Right: -0.006+/-0.000 χ^2/NDF : 12634793277.2/53

In: -1.303+/-0.000 χ^2/NDF : 311338695703.6/47

Out: -1.263+/-0.000 χ^2/NDF : 346486746269.1/53

All: -1.282+/-0.000 χ^2/NDF : 658048899089.7

yield_bpm1i02X_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 150588.2/24

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

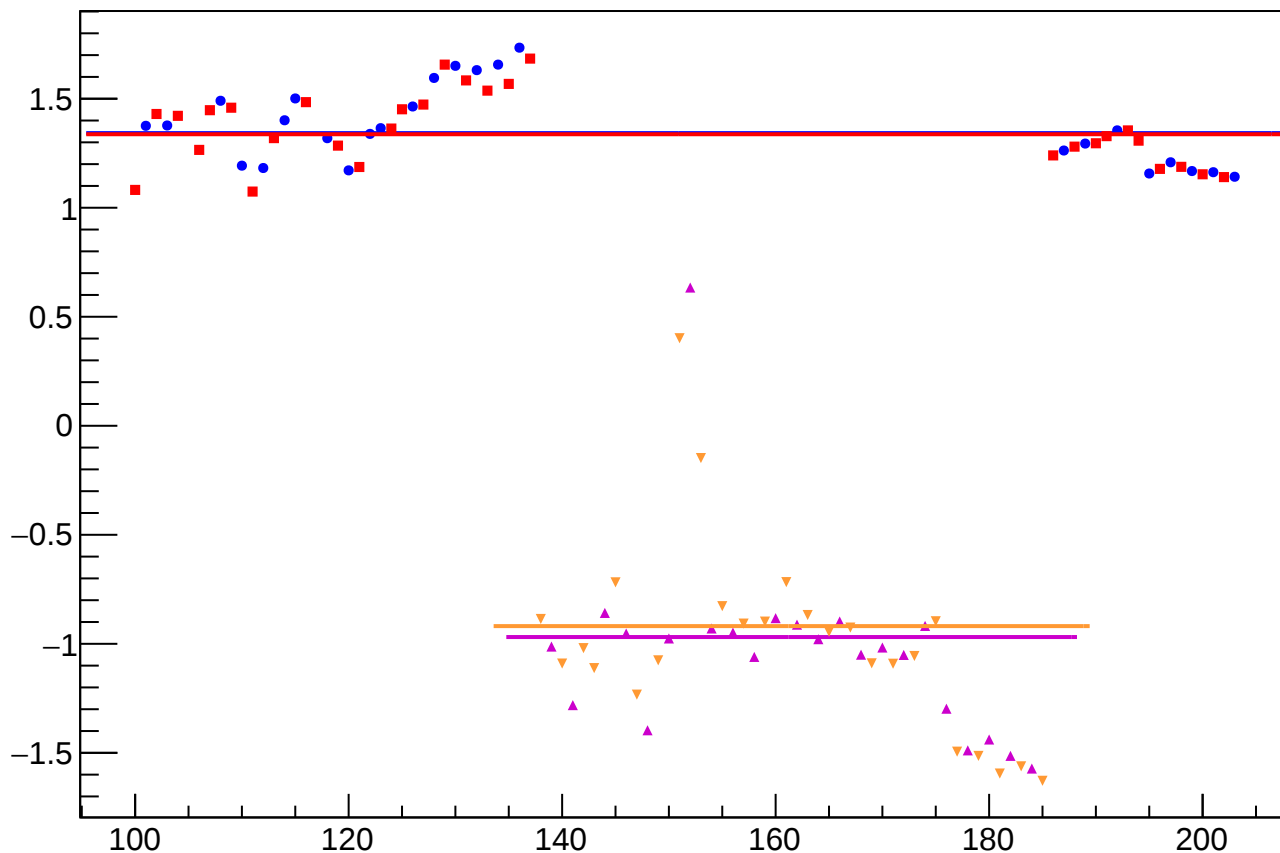
Right: 0.011+/-0.000 χ^2/NDF : 369435.3/53

In: 0.010+/-0.000 χ^2/NDF :1507429.2/47

Out: 0.010+/-0.000 χ^2/NDF :1489500.5/53

All: 0.010+/-0.000 χ^2/NDF : 2998725.7/101

yield_bpm1i02Y_mean vs Slug, Sign Corrected



Right In: 1.342 $\pm$ 0.000 χ^2 /NDF: 6672892780.2/24

Left Out: -0.919 $\pm$ 0.000 χ^2 /NDF: 55622252895.8/24

Right Out: 1.337 $\pm$ 0.000 χ^2 /NDF: 5010938715.4/28

Left In: -0.969 $\pm$ 0.000 χ^2 /NDF: 54895002535.8/22

Left: -0.943 $\pm$ 0.000 χ^2 /NDF: 110825900215.1/47

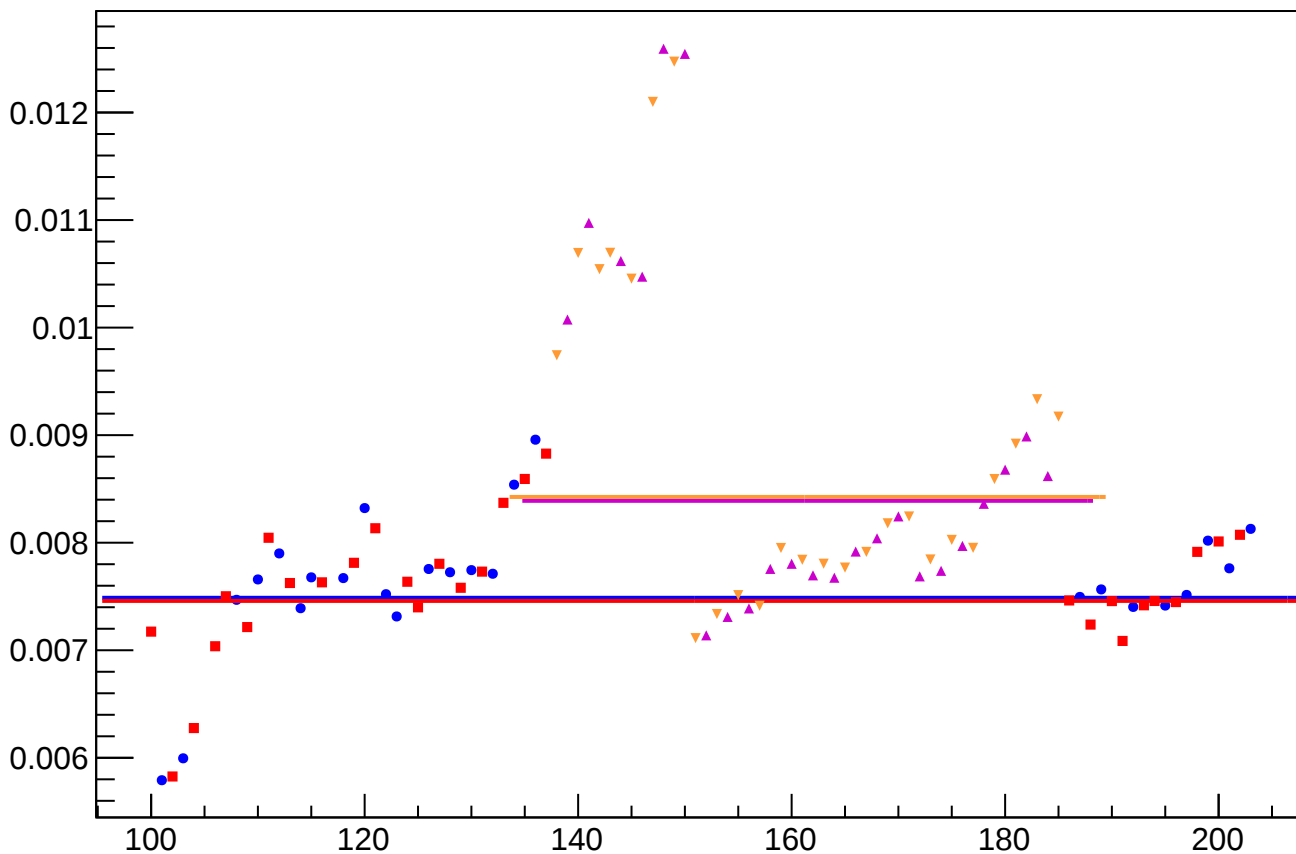
Right: 1.339 $\pm$ 0.000 χ^2 /NDF: 11686718952.2/53

In: 0.123 $\pm$ 0.000 χ^2 /NDF: 666037824450.9/47

Out: 0.181 $\pm$ 0.000 χ^2 /NDF: 686011210611.9/53

All: 0.153 $\pm$ 0.000 χ^2 /NDF: 1352824561211.9/100

yield_bpm1i02Y_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 253310.3/24

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

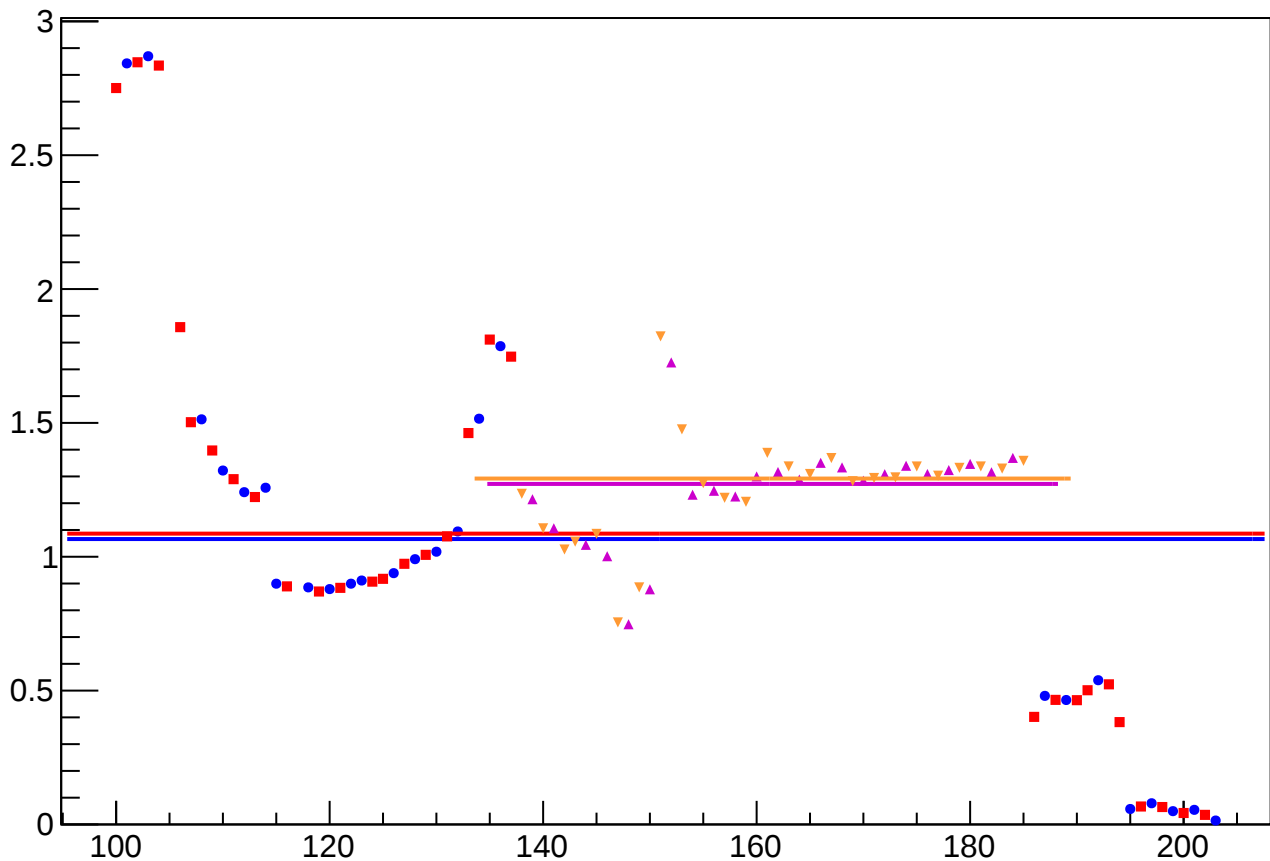
Right: 0.007+/-0.000 χ^2/NDF : 450241.5/53

In: 0.008+/-0.000 χ^2/NDF : 1277236.0/47

Out: 0.008+/-0.000 χ^2/NDF : 1218706.7/53

All: 0.008+/-0.000 χ^2/NDF : 2495980.0/101

yield_bpm1i04X_mean vs Slug, Sign Corrected



Right In: 1.066+/-0.000 χ^2/NDF : 108048292591.3/24

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

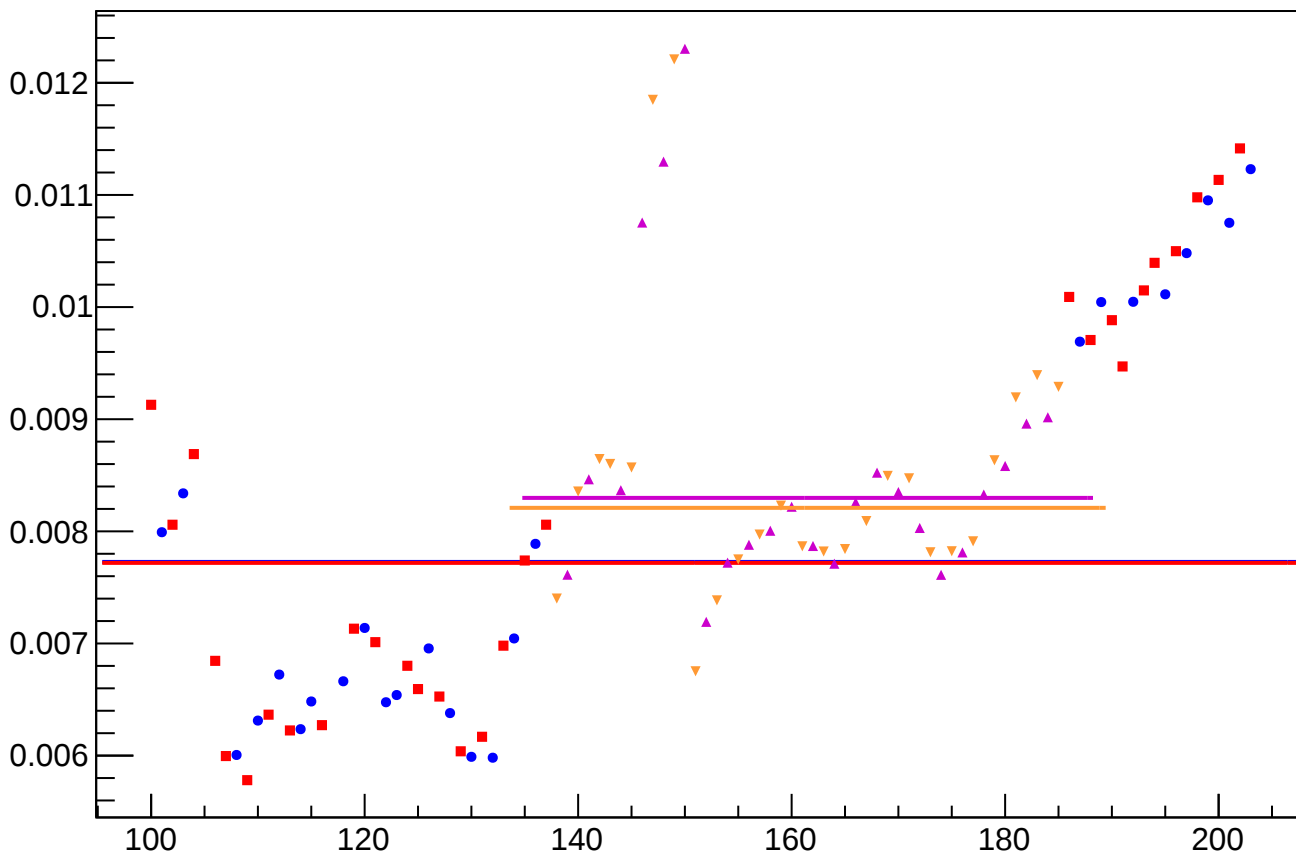
Right: 1.077+/-0.000 χ^2/NDF : 211994093470.0/53

In: 1.181+/-0.000 χ^2/NDF : 120197731318.2/47

Out: 1.200+/-0.000 χ^2/NDF : 118202822196.7/53

All: 1.191+/-0.000 χ^2/NDF : 238483145186.5

yield_bpm1i04X_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 1199542.6/24

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

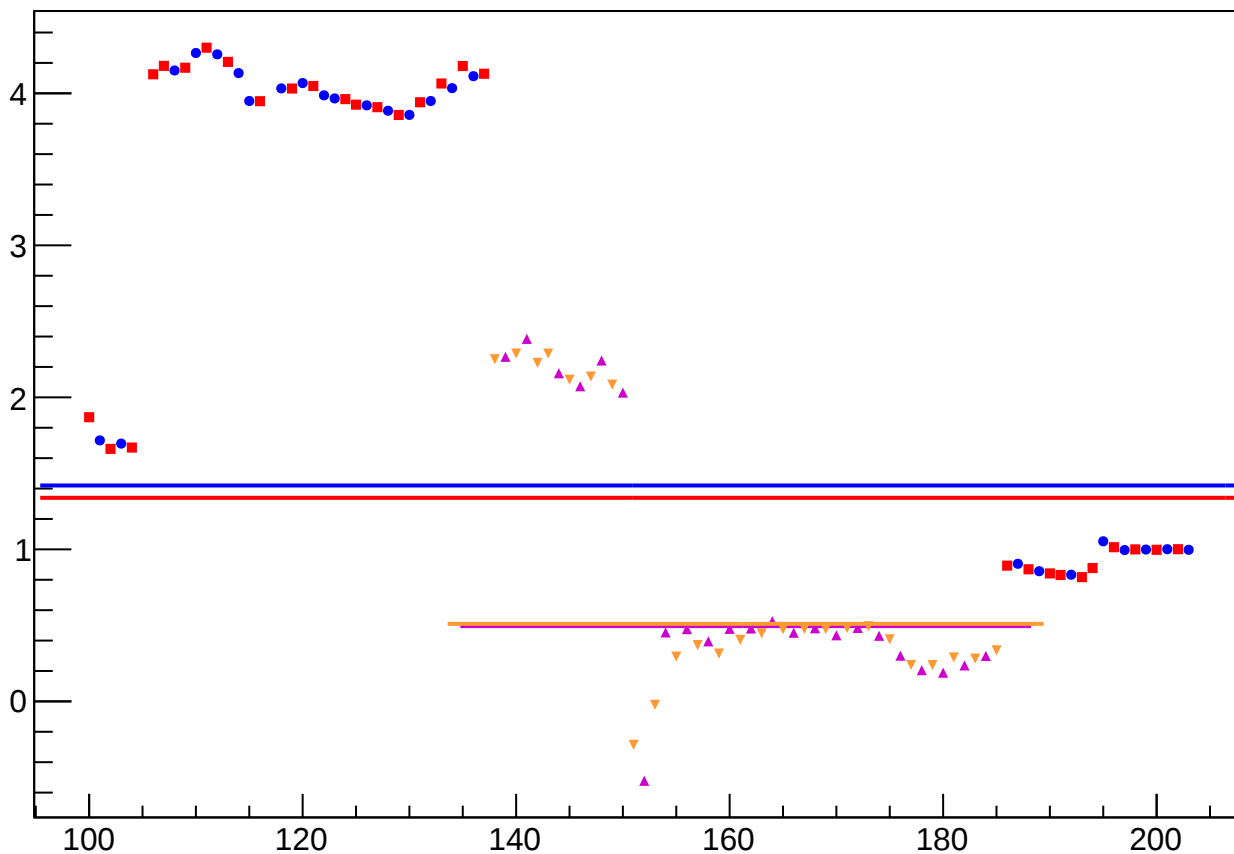
Right: 0.008+/-0.000 χ^2/NDF : 2585584.4/53

In: 0.008+/-0.000 χ^2/NDF :1731992.7/47

Out: 0.008+/-0.000 χ^2/NDF :1921715.0/53

All: 0.008+/-0.000 χ^2/NDF : 3655129.1/101

yield_bpm1i04Y_mean vs Slug, Sign Corrected



Right In: 1.420+/-0.000 χ^2/NDF : 1429224776869.6/24

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

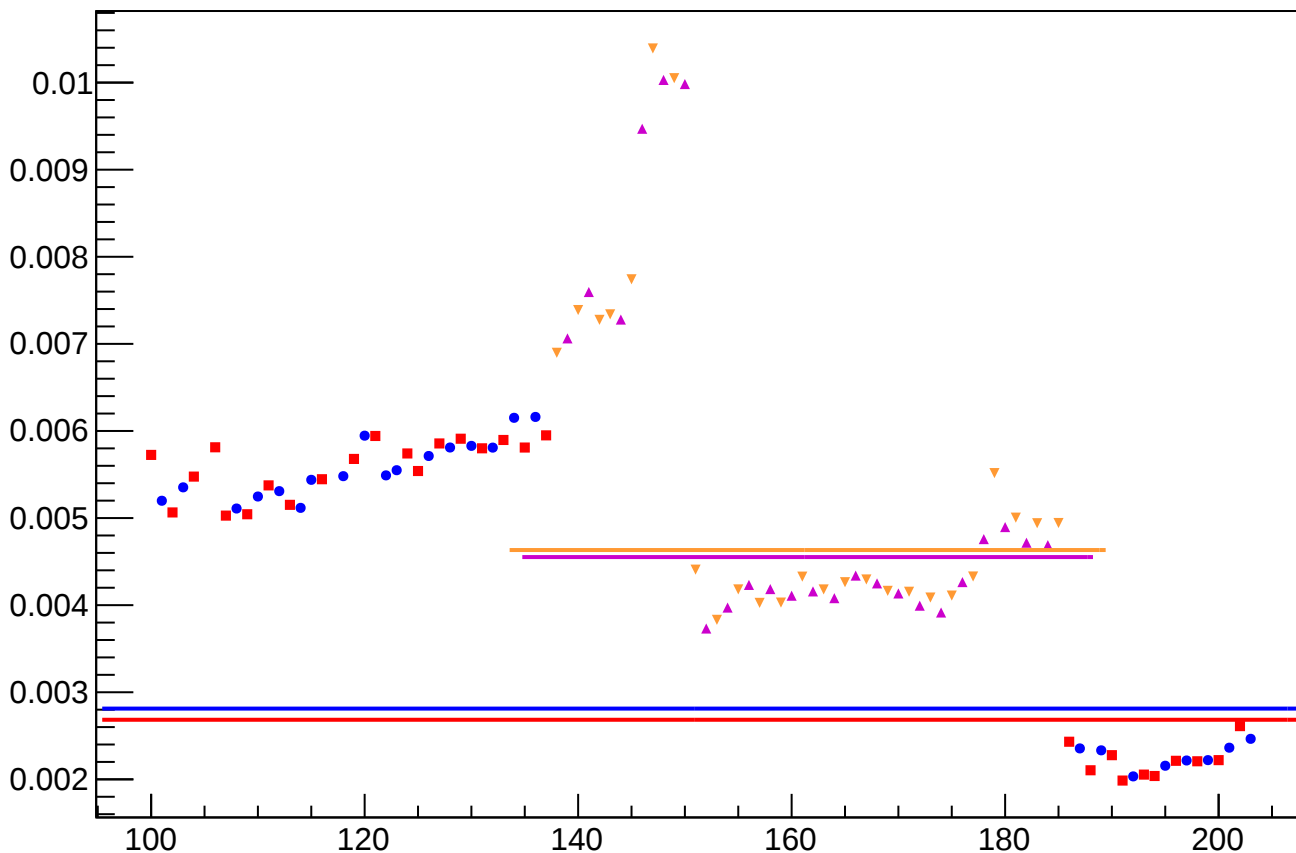
Right: 1.376+/-0.000 χ^2/NDF : 3087878165933.9/53

In: 1.069+/-0.000 χ^2/NDF : 2100277486346.9/47

Out: 1.055+/-0.000 χ^2/NDF : 2280076626200.9/53

All: 1.061+/-0.000 χ^2/NDF : 4380547814426.0

yield_bpm1i04Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 4031951.9/24

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

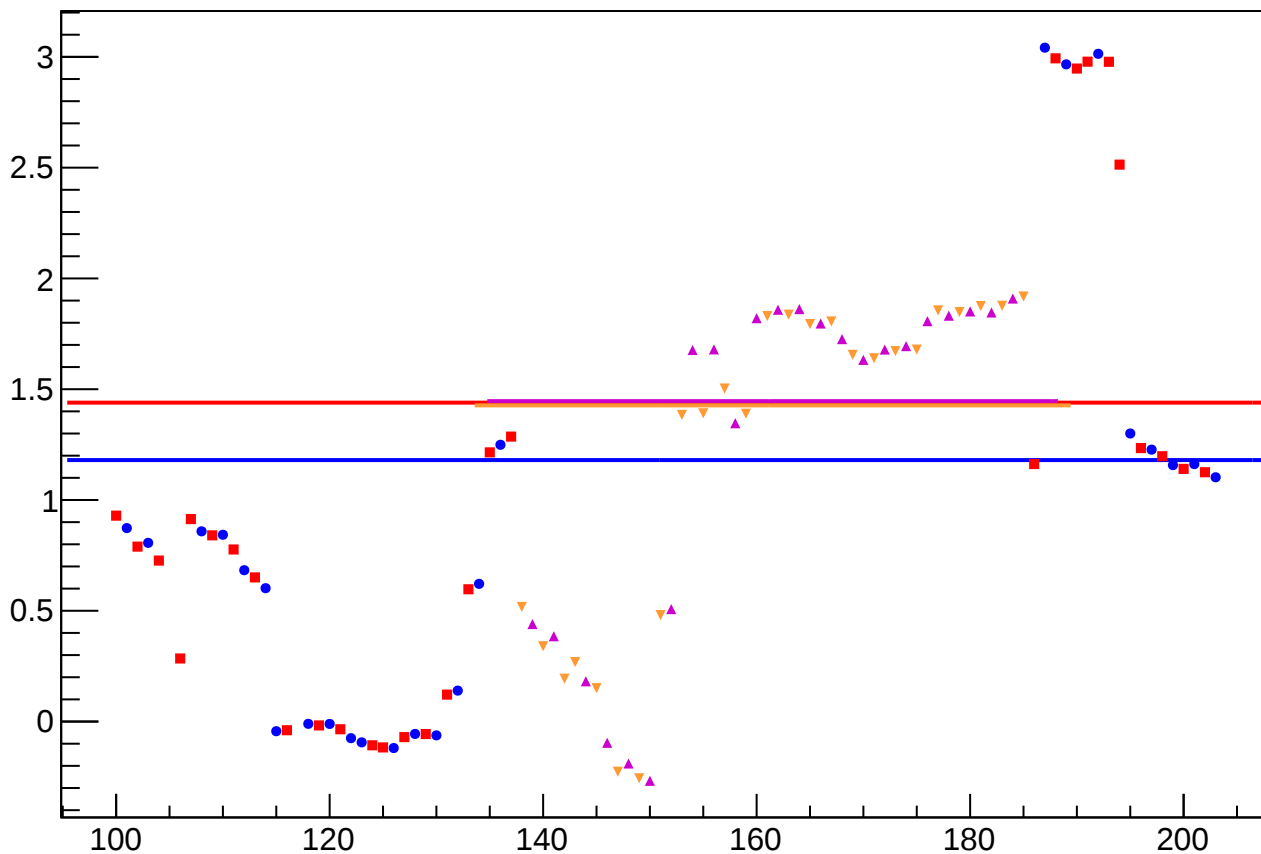
Right: 0.003+/-0.000 χ^2/NDF : 8465115.8/53

In: 0.003+/-0.000 χ^2/NDF :9113560.3/47

Out: 0.003+/-0.000 χ^2/NDF :10402868.8/53

All: 0.003+/-0.000 χ^2/NDF : 19547901.4/101

yield_bpm1i06X_mean vs Slug, Sign Corrected



Right In: 1.180+/-0.000 χ^2/NDF : 72635127084.5/24

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

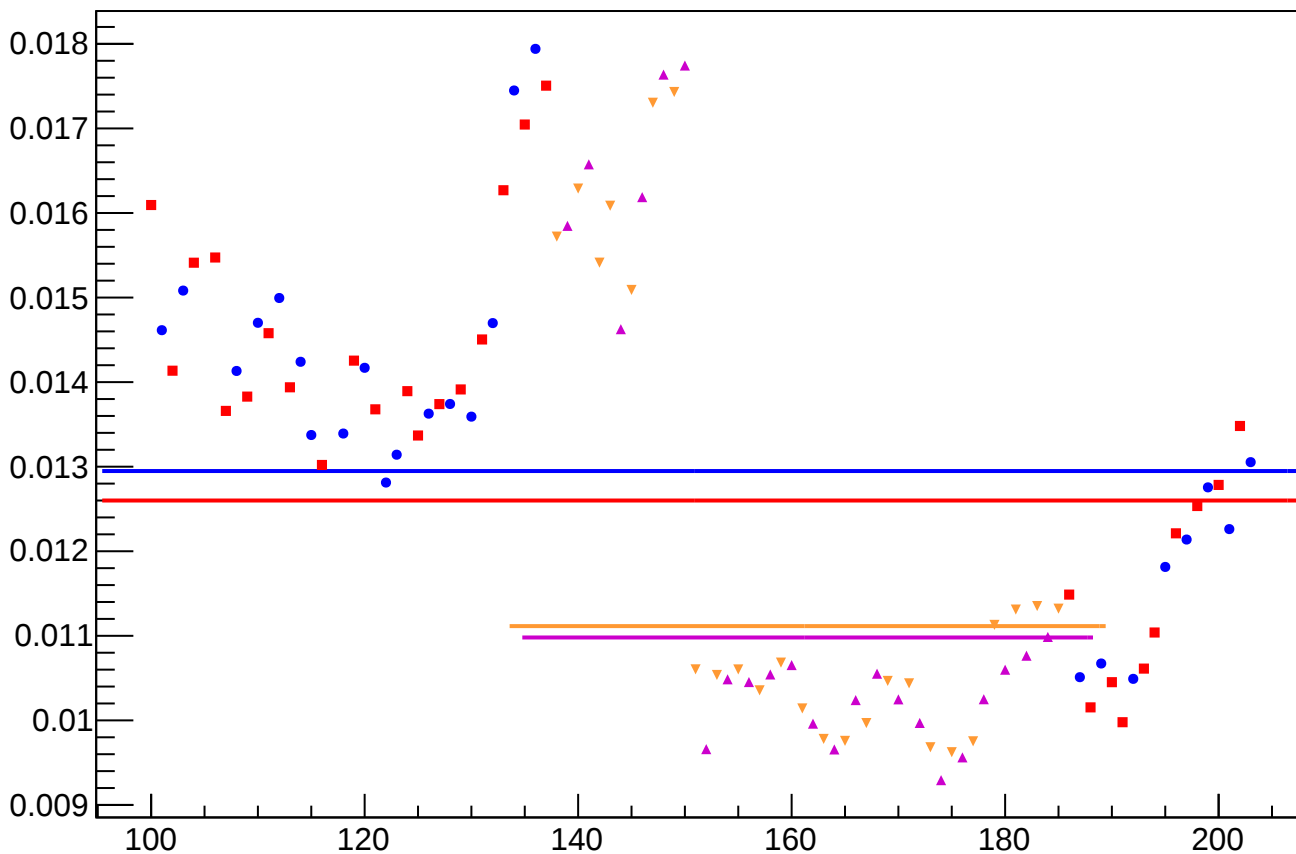
Right: 1.319+/-0.000 χ^2/NDF : 174081611391.3/53

In: 1.356+/-0.000 χ^2/NDF : 129695650000.0/47

Out: 1.432+/-0.000 χ^2/NDF : 148891492547.1/53

All: 1.395+/-0.000 χ^2/NDF : 279209732269.9

yield_bpm1i06X_rms vs Slug, Sign Corrected



Right In: 0.013 $\pm$ 0.000 χ^2 /NDF: 434794.4/24

Left Out: 0.011 $\pm$ 0.000 χ^2 /NDF:1227493.2/24

Right Out: 0.013 $\pm$ 0.000 χ^2 /NDF: 553075.6/28

Left In: 0.011 $\pm$ 0.000 χ^2 /NDF:1264827.0/22

Left: 0.011 $\pm$ 0.000 χ^2 /NDF: 2494847.1/47

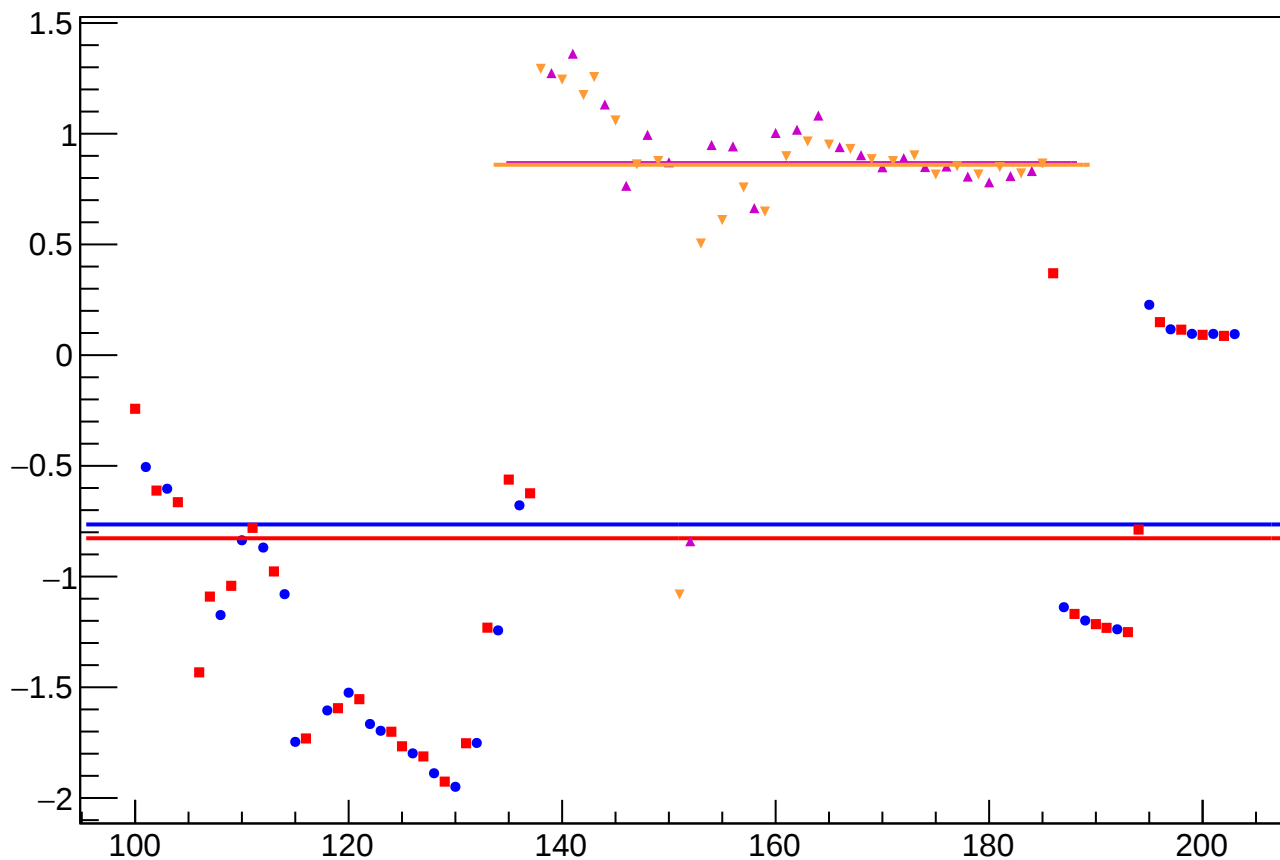
Right: 0.013 $\pm$ 0.000 χ^2 /NDF: 997107.7/53

In: 0.012 $\pm$ 0.000 χ^2 /NDF:2061975.9/47

Out: 0.012 $\pm$ 0.000 χ^2 /NDF:2009862.4/53

All: 0.012 $\pm$ 0.000 χ^2 /NDF: 4071849.5/101

yield_bpm1i06Y_mean vs Slug, Sign Corrected



Left: 0.863+/-0.000 χ^2/NDF : 273407894621.9/47
 Right: -0.797+/-0.000 χ^2/NDF : 283744290013.9/53
 In: 0.538+/-0.000 χ^2/NDF : 945486756468.0/47
 Out: 0.502+/-0.000 χ^2/NDF : 1014195946003.2/53
 All: 0.520+/-0.000 χ^2/NDF : 1960690911289.0

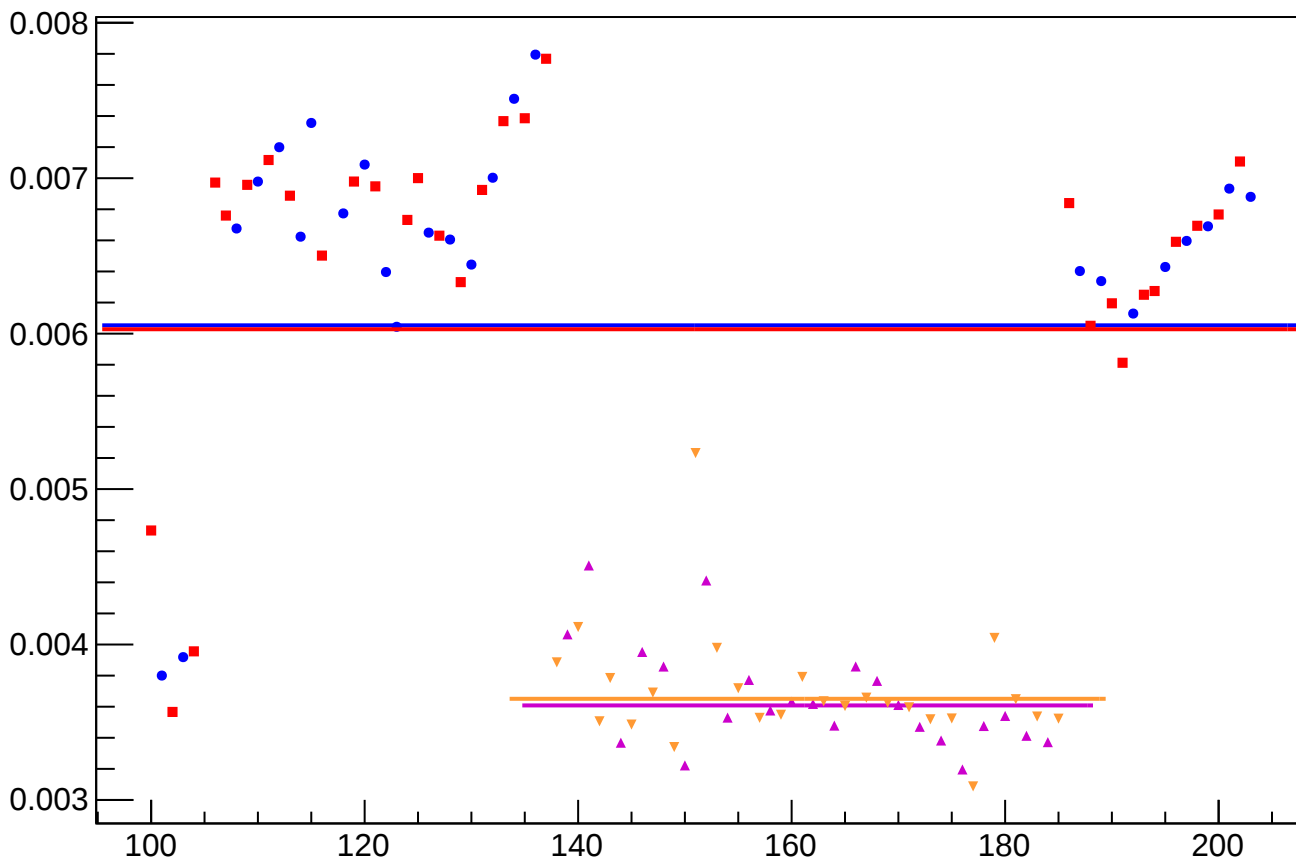
Right In: -0.765+/-0.000 χ^2/NDF : 151049601473.1/24

Left Out: 0.860+/-0.000 χ^2/NDF : 126335891175.4/24

Right Out: -0.827+/-0.000 χ^2/NDF : 132072113054.4/28

Left In: 0.867+/-0.000 χ^2/NDF : 147039402944.6/22

yield_bpm1i06Y_rms vs Slug, Sign Corrected



Right In: 0.006 $\pm$ 0.000 χ^2 /NDF: 958241.2/24

Left Out: 0.004 $\pm$ 0.000 χ^2 /NDF:237262.6/24

Right Out: 0.006 $\pm$ 0.000 χ^2 /NDF: 1043476.6/28

Left In: 0.004 $\pm$ 0.000 χ^2 /NDF:227861.4/22

Left: 0.004 $\pm$ 0.000 χ^2 /NDF: 467360.2/47

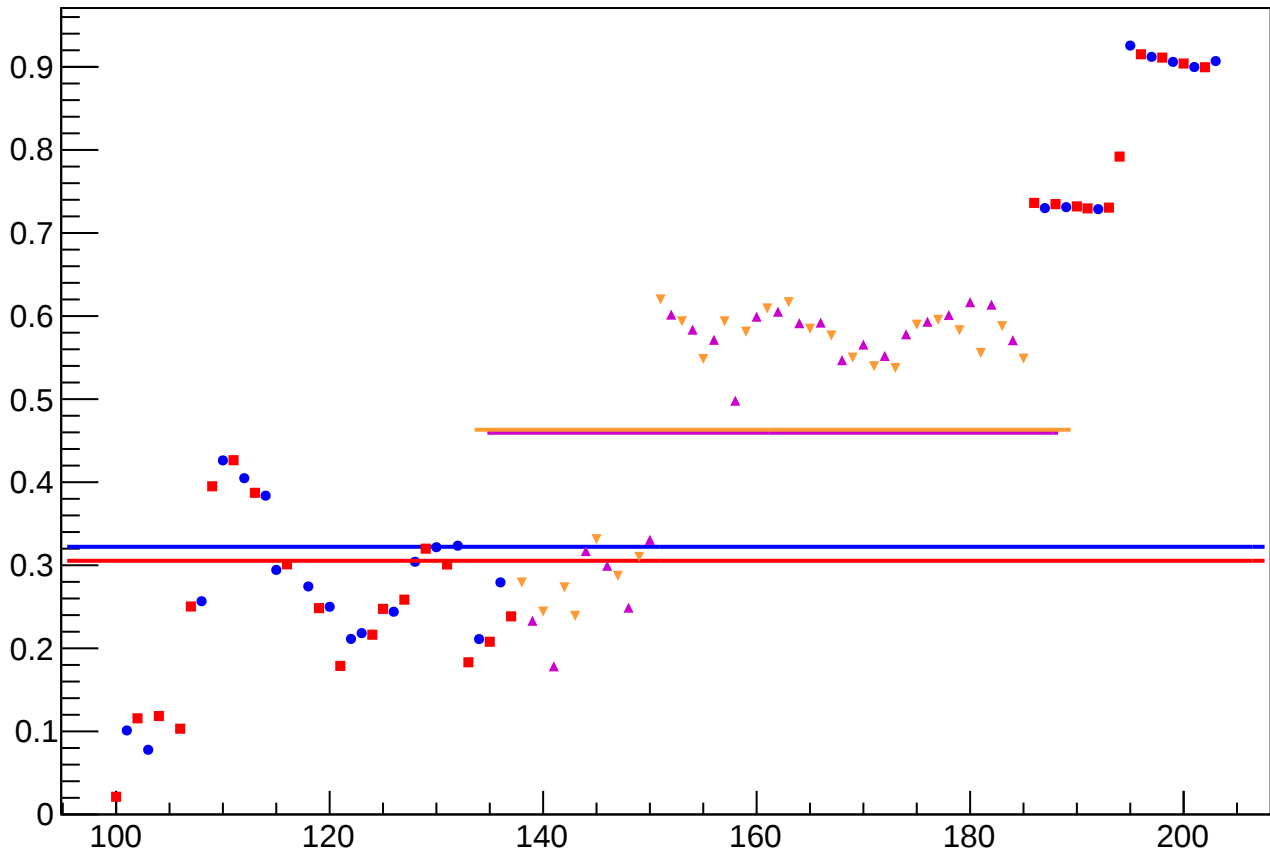
Right: 0.006 $\pm$ 0.000 χ^2 /NDF: 2001921.2/53

In: 0.004 $\pm$ 0.000 χ^2 /NDF:4093752.4/47

Out: 0.004 $\pm$ 0.000 χ^2 /NDF:4283196.9/53

All: 0.004 $\pm$ 0.000 χ^2 /NDF: 8381452.5/101

yield_bpm2i01X_mean vs Slug, Sign Corrected



Right In: 0.322+/-0.000 χ^2/NDF : 120763909218.8/24

Left Out: 0.463+/-0.000 χ^2/NDF : 102506270538.7/24

Right Out: 0.305+/-0.000 χ^2/NDF : 134872114241.9/28

Left In: 0.460+/-0.000 χ^2/NDF : 104559088628.4/22

Left: 0.461+/-0.000 χ^2/NDF : 207093695005.5/47

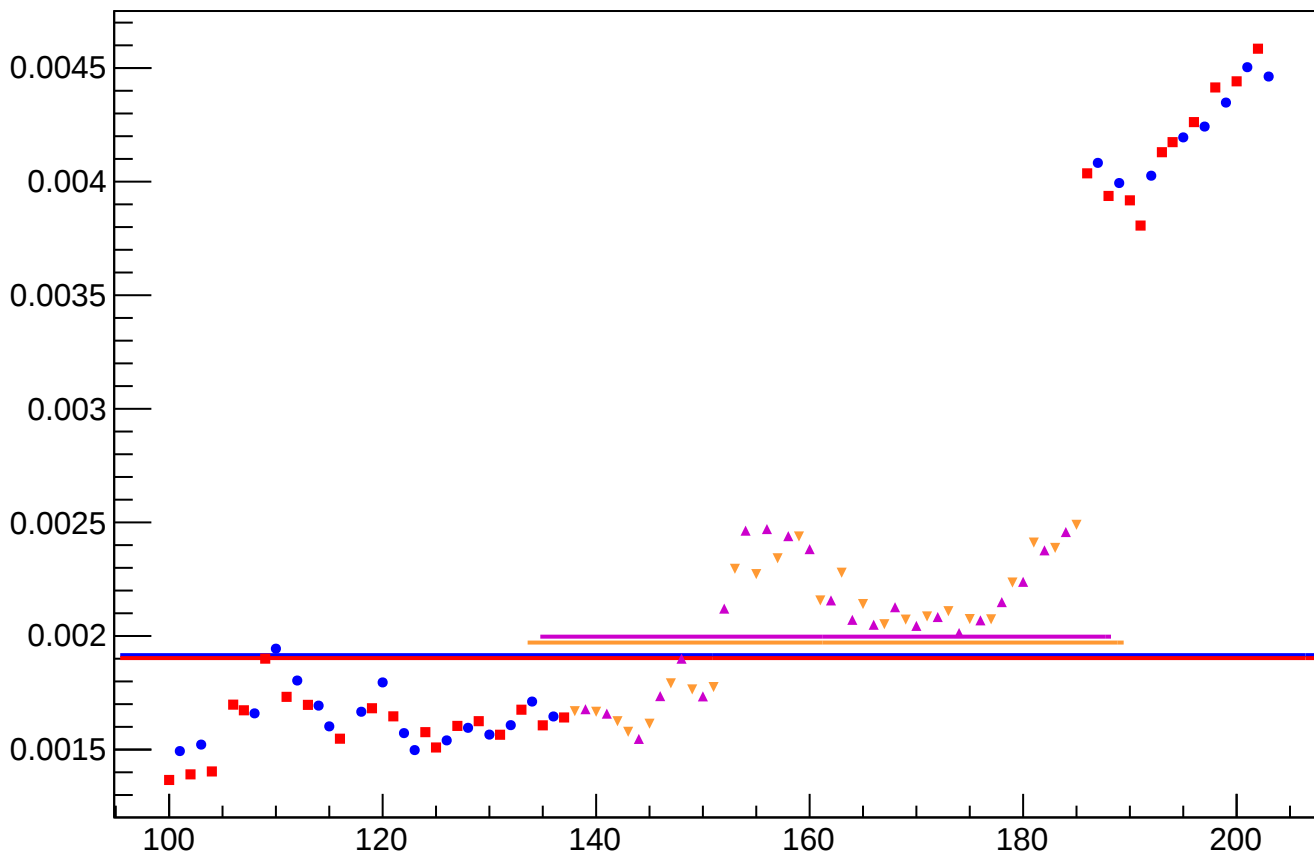
Right: 0.313+/-0.000 χ^2/NDF : 256047460997.0/53

In: 0.405+/-0.000 χ^2/NDF : 256607505477.4/47

Out: 0.400+/-0.000 χ^2/NDF : 283263703152.0/53

All: 0.403+/-0.000 χ^2/NDF : 539981040243.2

yield_bpm2i01X_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 3794834.2/24

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

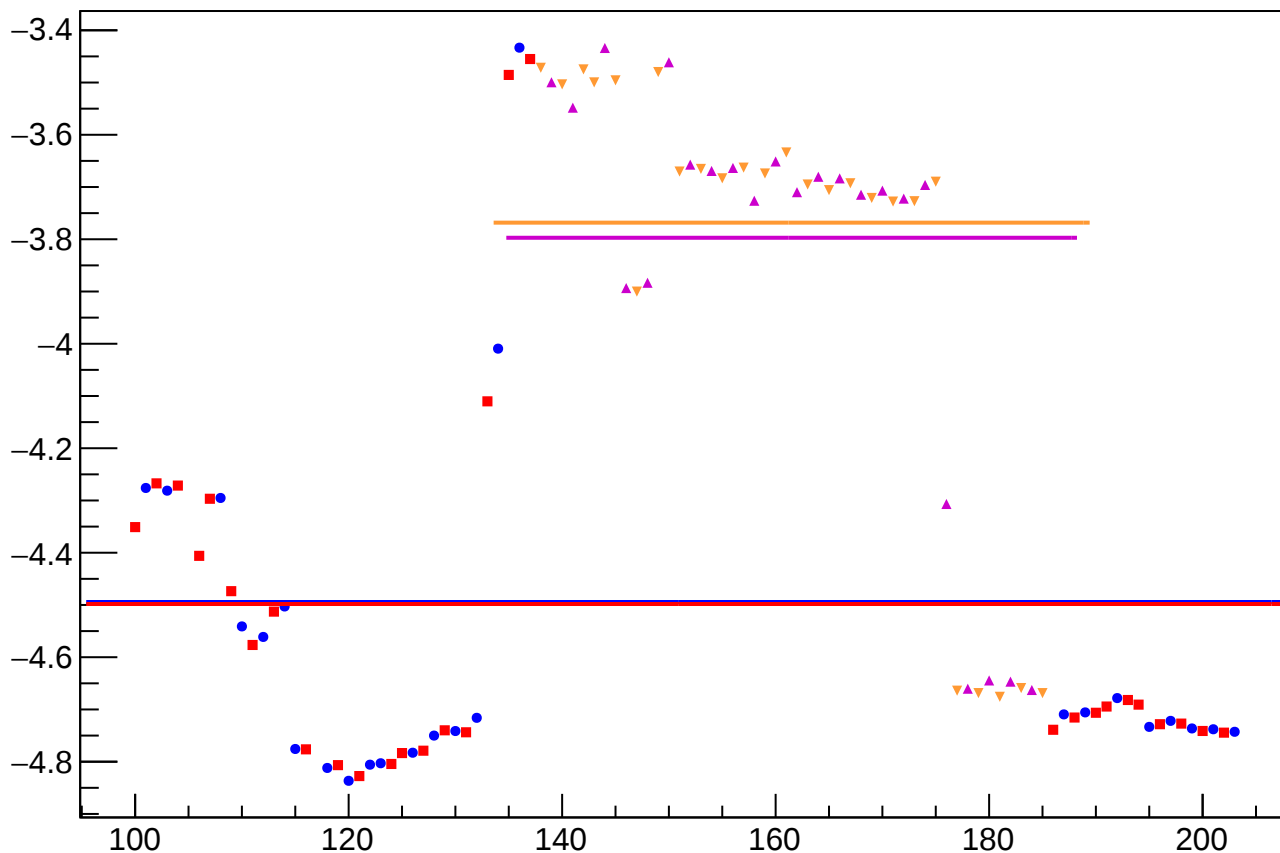
Right: 0.002+/-0.000 χ^2/NDF : 8203628.8/53

In: 0.002+/-0.000 χ^2/NDF : 4483198.9/47

Out: 0.002+/-0.000 χ^2/NDF : 5155746.6/53

All: 0.002+/-0.000 χ^2/NDF : 9642261.1/101

yield_bpm2i01Y_mean vs Slug, Sign Corrected



Right In: -4.494+/-0.000

χ^2/NDF : 425736352602.2/24

Left: -3.782+/-0.000

χ^2/NDF : 963205684454.6/47

Left Out: -3.768+/-0.000

χ^2/NDF : 516780173940.8/24

Right: -4.496+/-0.000

χ^2/NDF : 788051407109.3/53

Right Out: -4.498+/-0.000

χ^2/NDF : 362295866489.5/28

In: -4.085+/-0.000

χ^2/NDF : 1583571662063.9/47

Out: -4.073+/-0.000

χ^2/NDF : 1726227854900.9/53

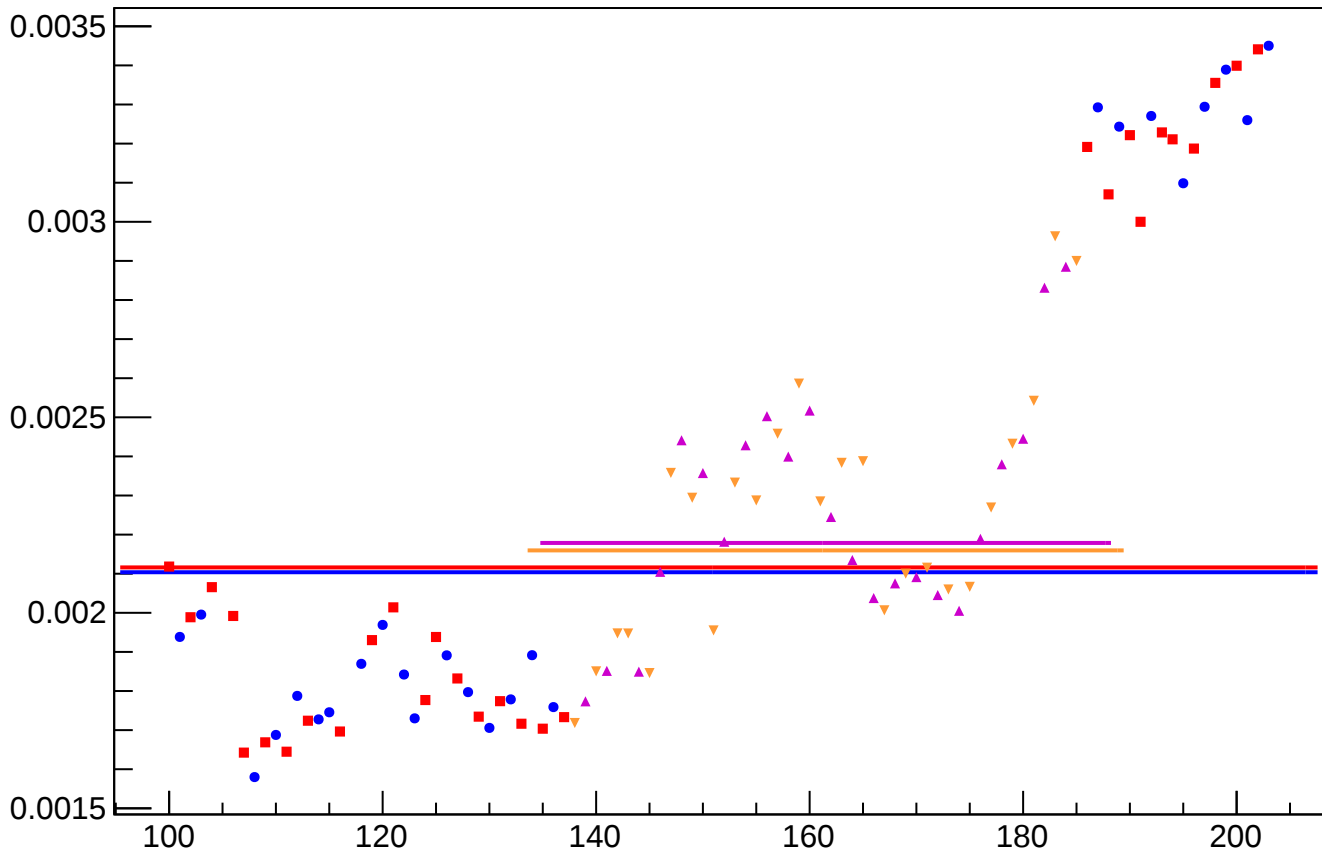
Left In: -3.797+/-0.000

χ^2/NDF : 444886272608.9/22

All: -4.079+/-0.000

χ^2/NDF : 3310298874162

yield_bpm2i01Y_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000

χ^2/NDF : 1825836.9/24

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 : 3869077.6/53

In: 0.002+/-0.000

χ^2/NDF :2305586.8/47

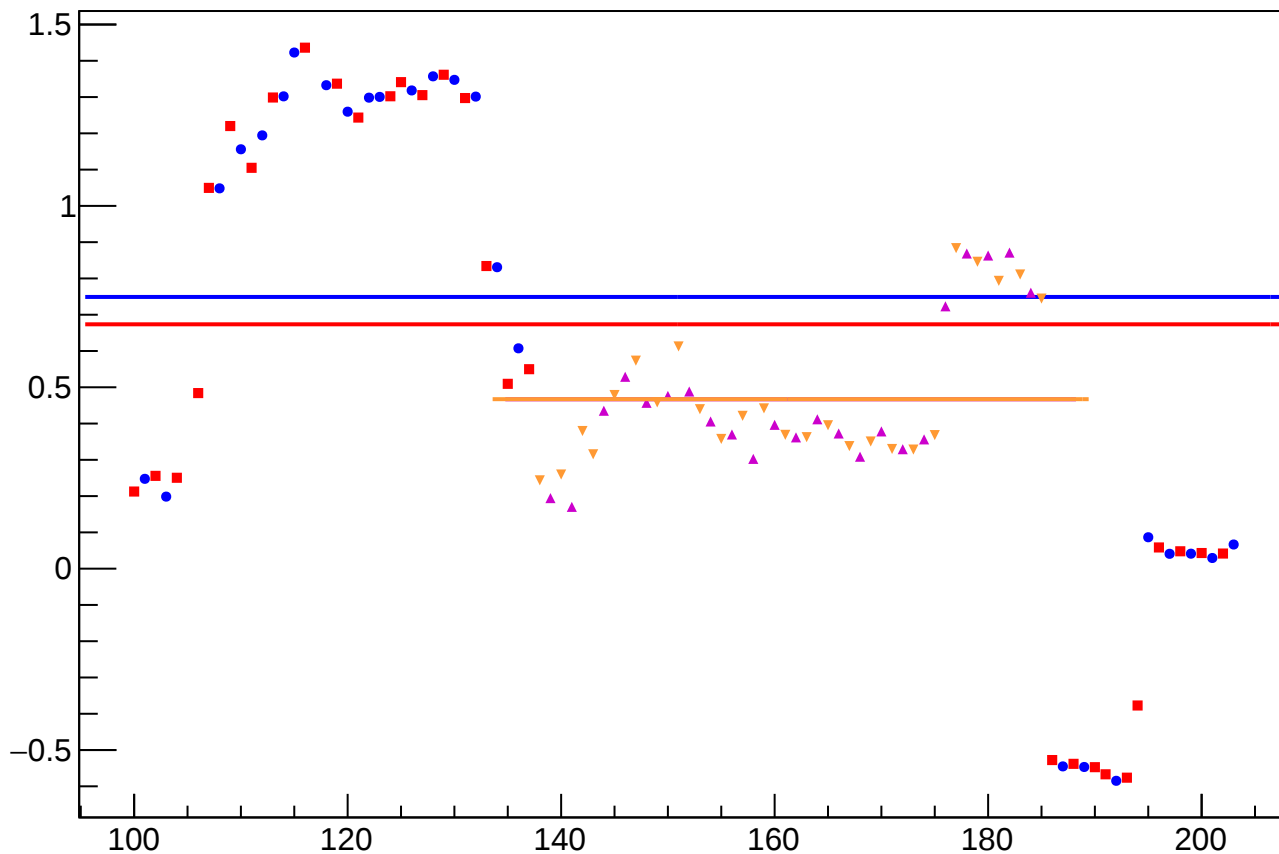
Out: 0.002+/-0.000

χ^2/NDF :2596697.8/53

All: 0.002+/-0.000

χ^2/NDF : 4902531.5/101

yield_bpm2i02X_mean vs Slug, Sign Corrected



Right In: 0.749+/-0.000

χ^2/NDF : 70439837034.2/24

Left: 0.467+/-0.000

χ^2/NDF : 15396100488.4/47

Left Out: 0.467+/-0.000

χ^2/NDF : 7359344143.3/24

Right: 0.709+/-0.000

χ^2/NDF : 162885050711.3/53

Right Out: 0.674+/-0.000

χ^2/NDF : 91938427897.6/28

In: 0.597+/-0.000

χ^2/NDF : 85624834459.8/47

Out: 0.566+/-0.000

χ^2/NDF : 103547523766.8/53

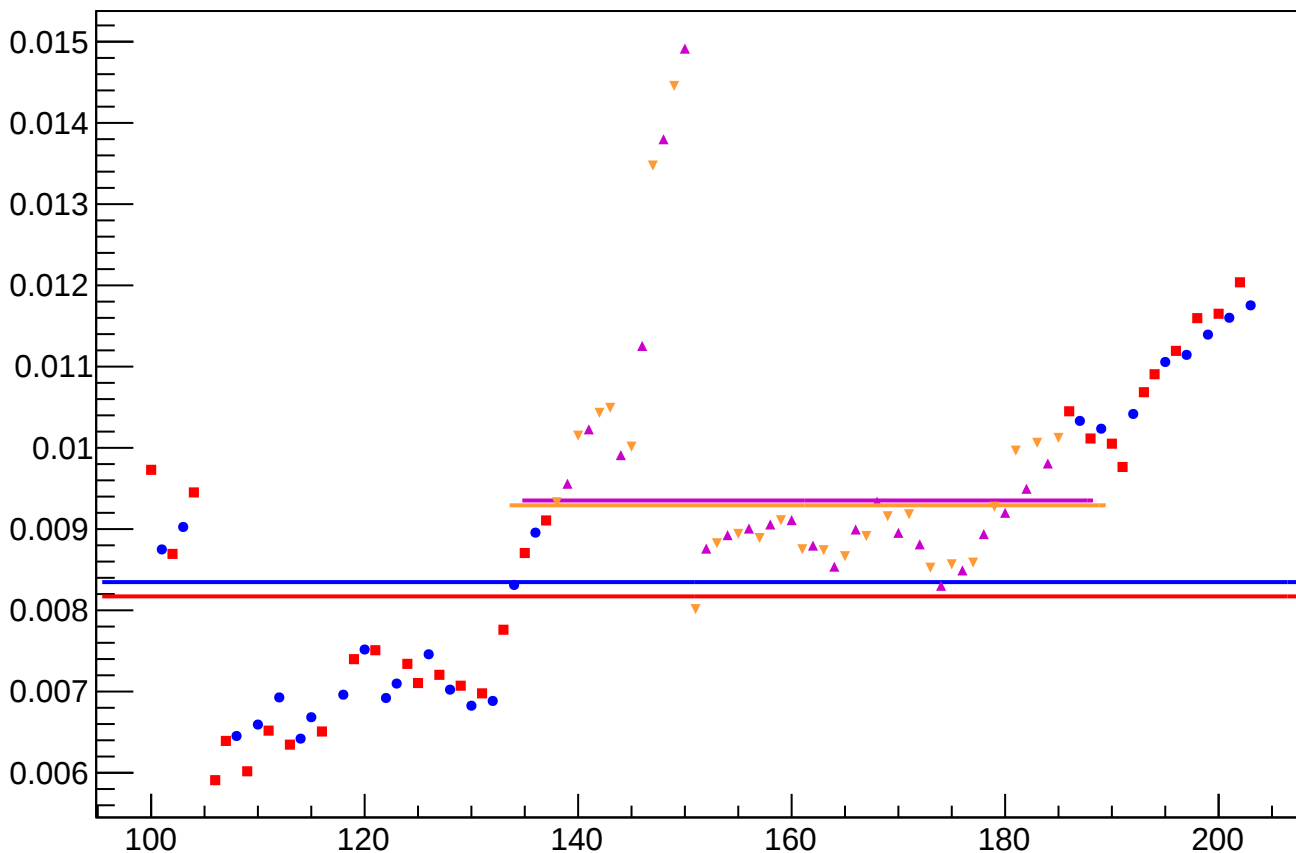
Left In: 0.467+/-0.000

χ^2/NDF : 8036741308.0/22

All: 0.581+/-0.000

χ^2/NDF : 189360258964.7

yield_bpm2i02X_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 1106836.6/24

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

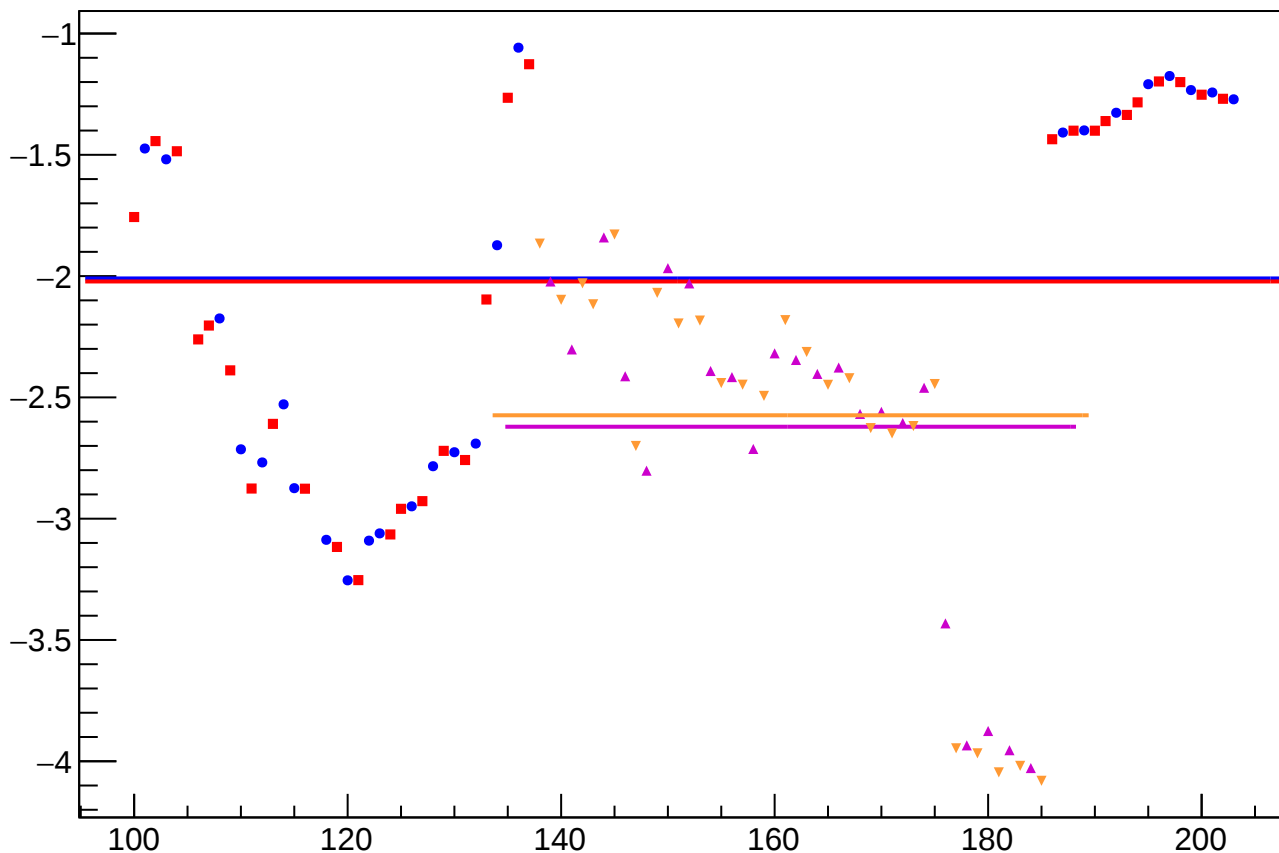
Right: 0.008+/-0.000 χ^2/NDF : 2513256.7/53

In: 0.009+/-0.000 χ^2/NDF : 1845623.5/47

Out: 0.009+/-0.000 χ^2/NDF : 2180148.5/53

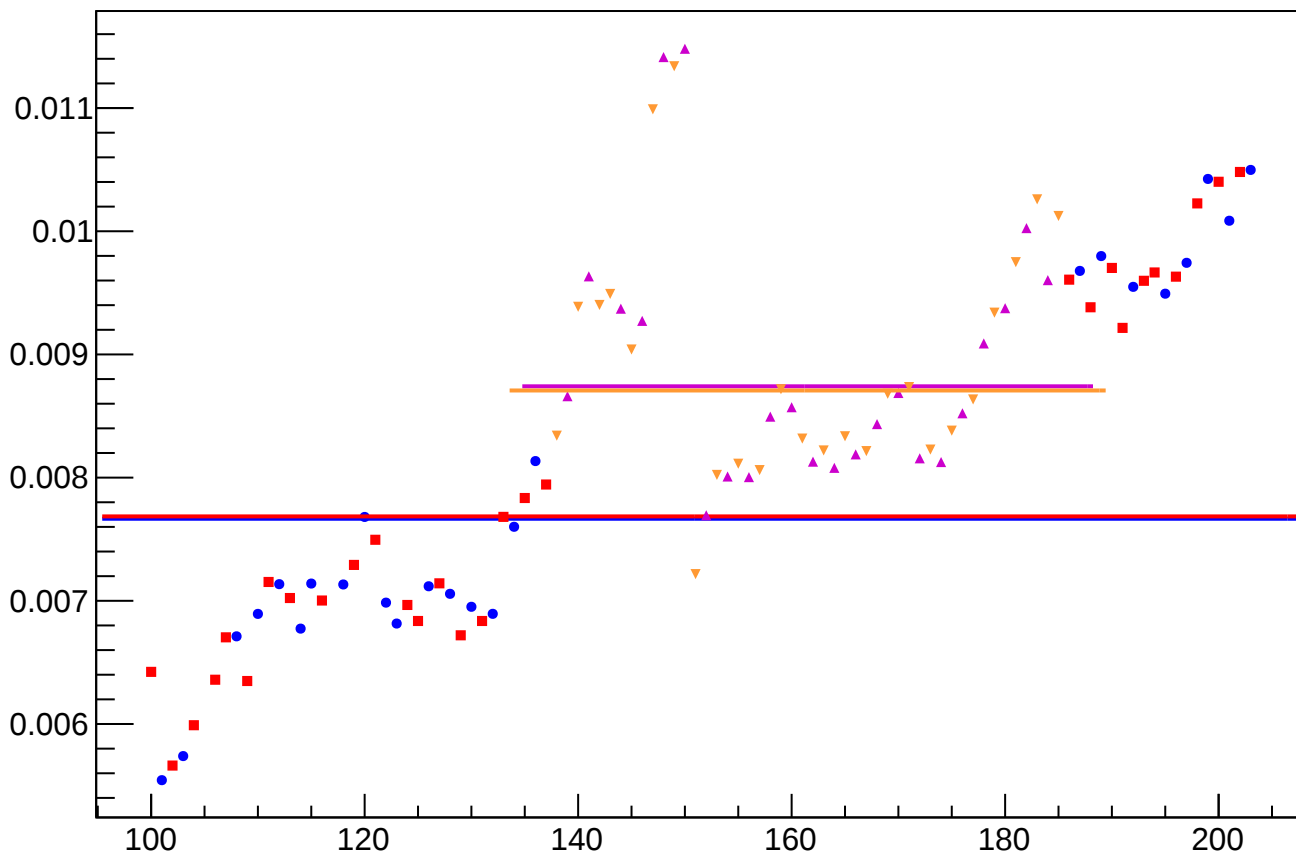
All: 0.009+/-0.000 χ^2/NDF : 4032224.6/101

yield_bpm2i02Y_mean vs Slug, Sign Corrected



Right In: -2.010+/-0.000	$\chi^2/\text{NDF}: 117113307342.4/24$	Left: -2.597+/-0.000	$\chi^2/\text{NDF}: 180296288698.4/47$
Left Out: -2.574+/-0.000	$\chi^2/\text{NDF}: 99176112704.9/24$	Right: -2.016+/-0.000	$\chi^2/\text{NDF}: 231233393152.6/53$
Right Out: -2.022+/-0.000	$\chi^2/\text{NDF}: 114103812569.8/28$	In: -2.333+/-0.000	$\chi^2/\text{NDF}: 237413398002.2/47$
Left In: -2.621+/-0.000	$\chi^2/\text{NDF}: 80862402796.4/22$	Out: -2.310+/-0.000	$\chi^2/\text{NDF}: 248151376684.4/53$
		All: -2.321+/-0.000	$\chi^2/\text{NDF}: 485684847386.9$

yield_bpm2i02Y_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 966040.3/24

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

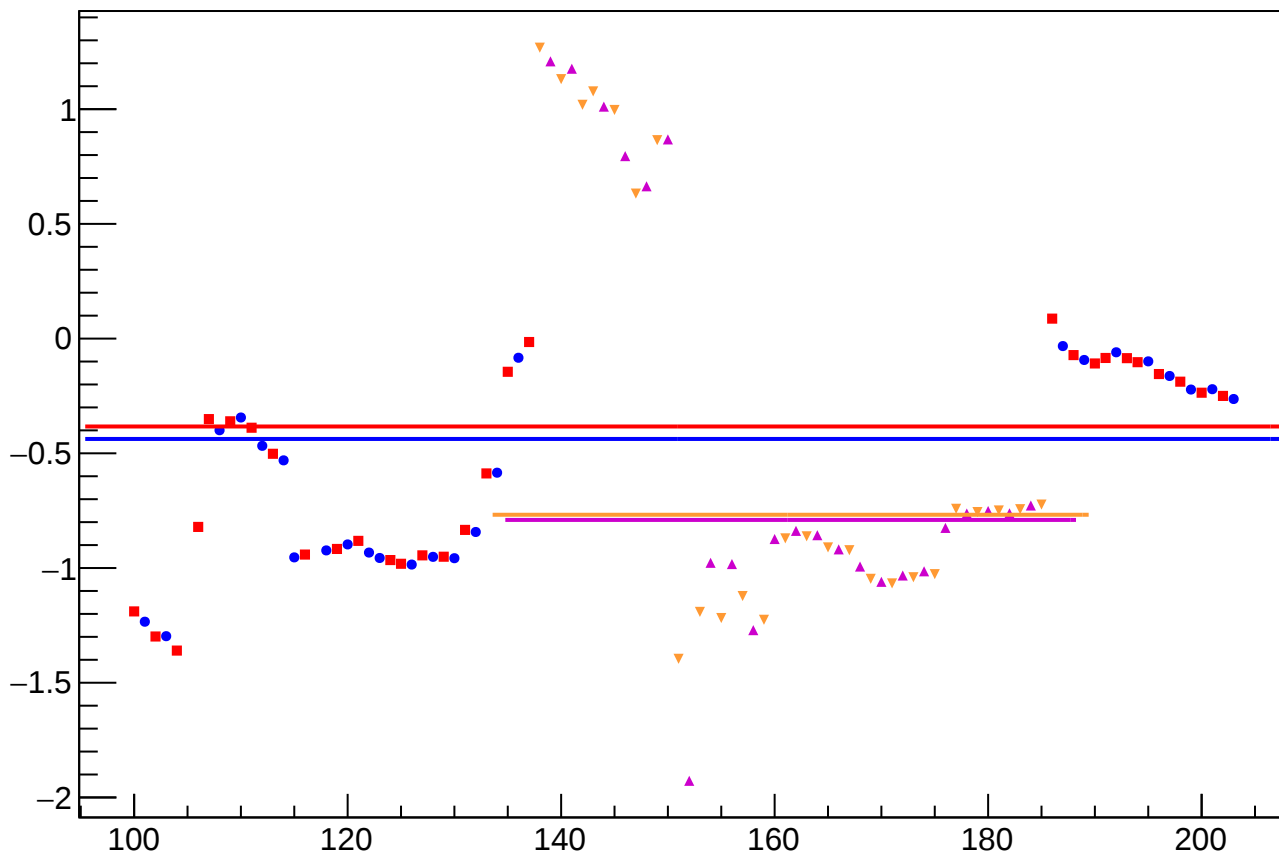
Right: 0.008+/-0.000 χ^2/NDF : 1956113.7/53

In: 0.008+/-0.000 χ^2/NDF : 1563688.7/47

Out: 0.008+/-0.000 χ^2/NDF : 1598876.7/53

All: 0.008+/-0.000 χ^2/NDF : 3162690.4/101

yield_bpm0i01X_mean vs Slug, Sign Corrected



Right In: -0.437 $\pm$ 0.000 χ^2 /NDF: 22142531345.1/24

Left Out: -0.768 $\pm$ 0.000 χ^2 /NDF: 120774855982.9/24

Right Out: -0.383 $\pm$ 0.000 χ^2 /NDF: 24928878598.7/28

Left In: -0.790 $\pm$ 0.000 χ^2 /NDF: 123452478408.2/22

Left: -0.779 $\pm$ 0.000 χ^2 /NDF: 244297726249.8/47

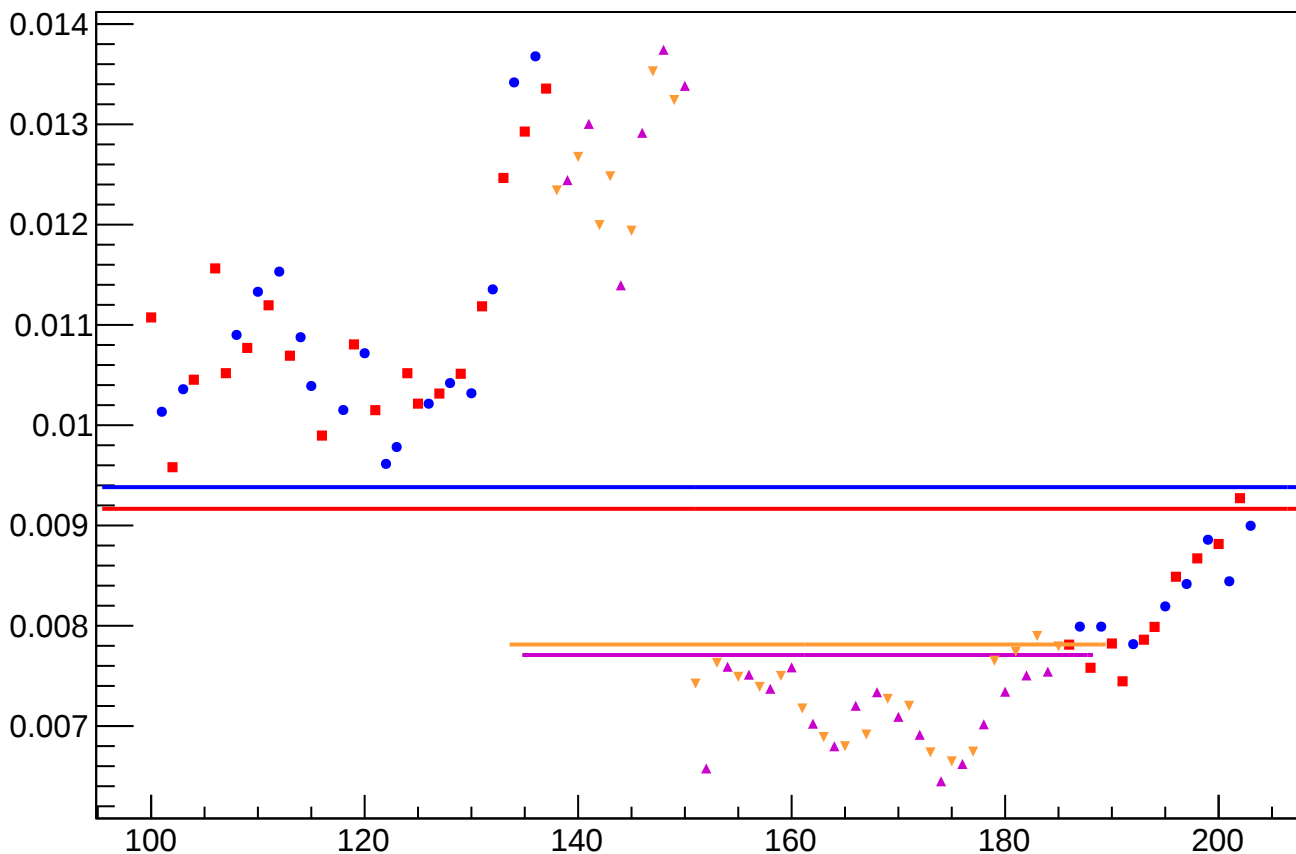
Right: -0.408 $\pm$ 0.000 χ^2 /NDF: 47282333668.5/53

In: -0.674 $\pm$ 0.000 χ^2 /NDF: 156753822098.6/47

Out: -0.632 $\pm$ 0.000 χ^2 /NDF: 160413377406.8/53

All: -0.652 $\pm$ 0.000 χ^2 /NDF: 317538739224.7

yield_bpm0i01X_rms vs Slug, Sign Corrected



Right In: 0.009+/-0.000 χ^2/NDF : 539184.2/24

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

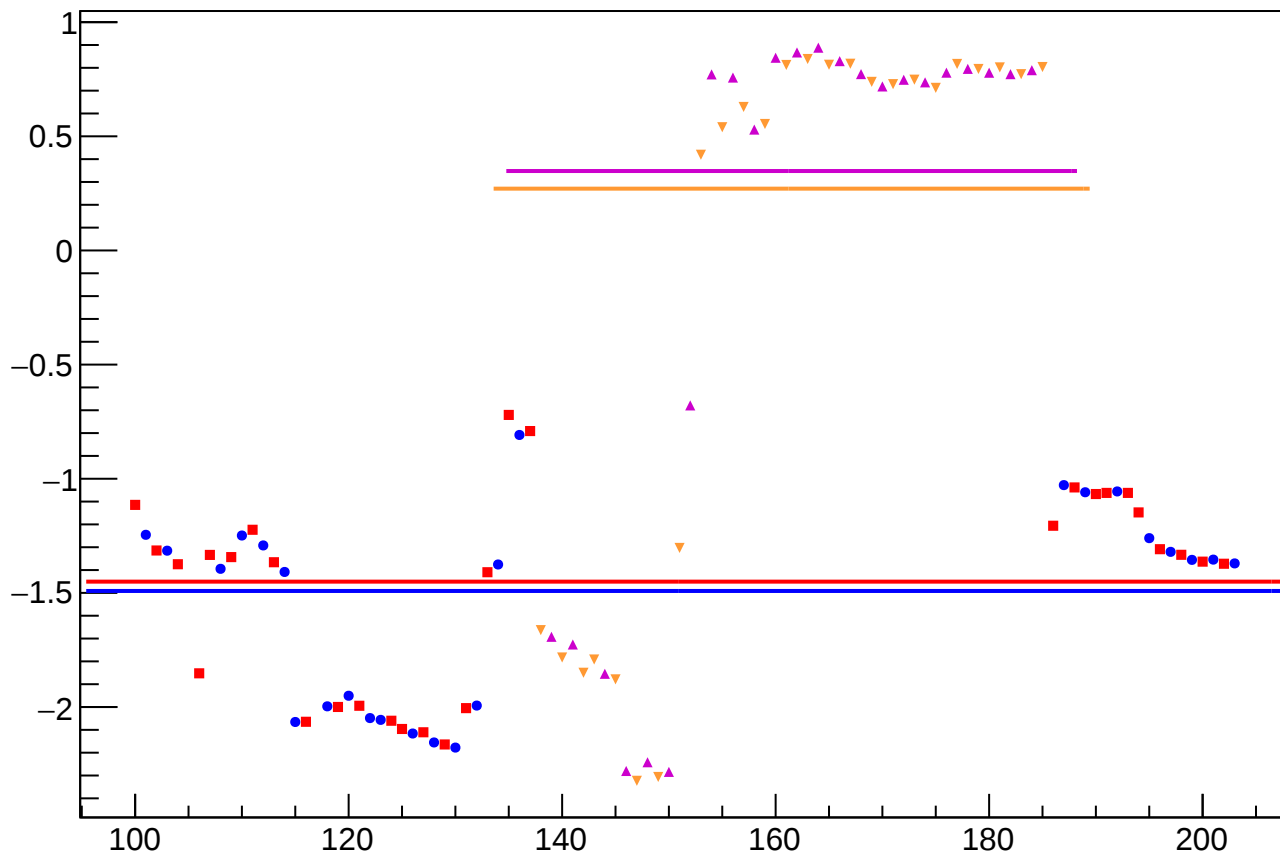
Right: 0.009+/-0.000 χ^2/NDF : 1173849.2/53

In: 0.008+/-0.000 χ^2/NDF :2787753.6/47

Out: 0.008+/-0.000 χ^2/NDF :2697896.1/53

All: 0.008+/-0.000 χ^2/NDF : 5486050.7/101

yield_bpm0i01Y_mean vs Slug, Sign Corrected



Right In: -1.492+/-0.000 χ^2/NDF : 173534077069.2/24

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

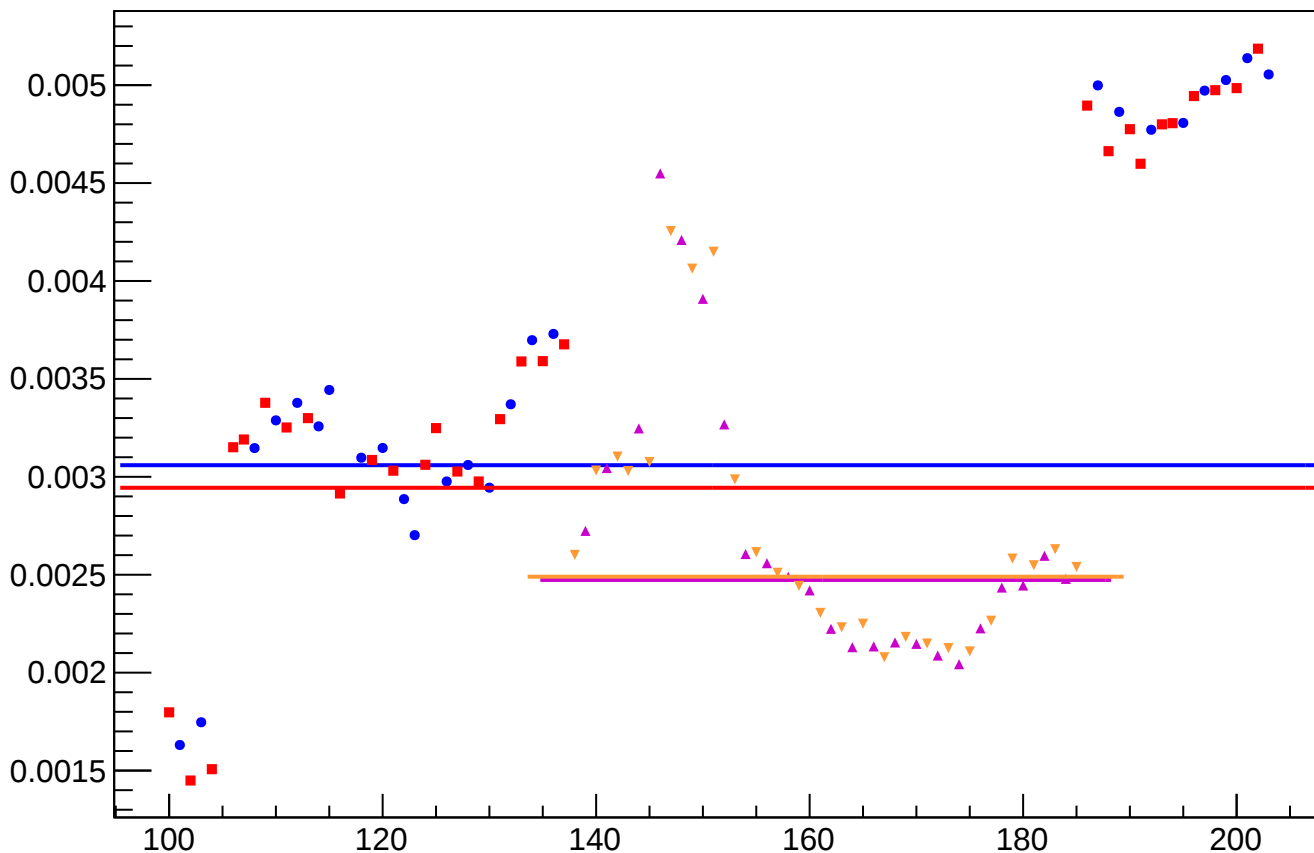
Right: -1.470+/-0.000 χ^2/NDF : 338283510998.2/53

In: -0.206+/-0.000 χ^2/NDF : 4975435354419.9/47

Out: -0.278+/-0.000 χ^2/NDF : 5225204676893.0/53

All: -0.243+/-0.000 χ^2/NDF : 1021040573004

yield_bpm0i01Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 2973117.2/24

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

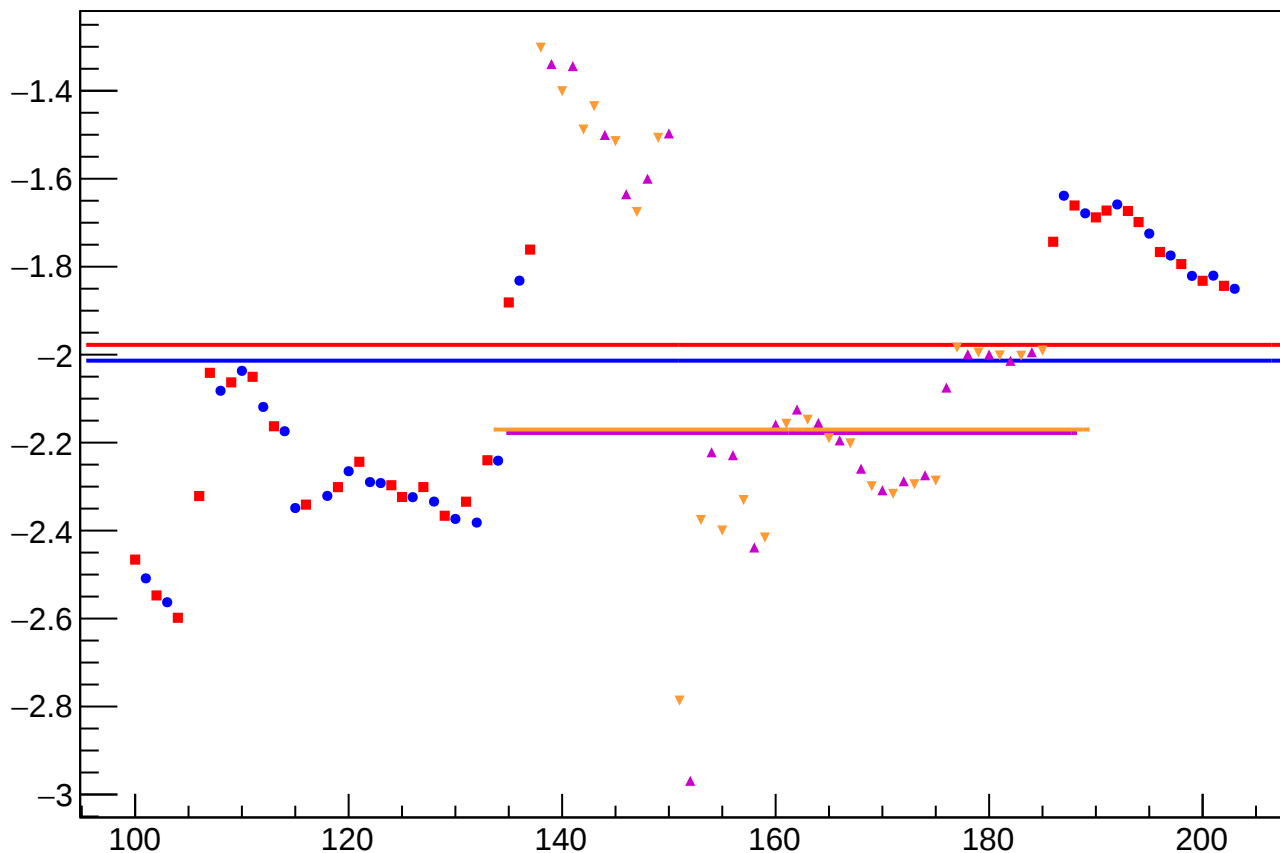
Right: 0.003+/-0.000 χ^2/NDF : 6950860.4/53

In: 0.003+/-0.000 χ^2/NDF :4621313.2/47

Out: 0.003+/-0.000 χ^2/NDF :5377614.5/53

All: 0.003+/-0.000 χ^2/NDF : 9999746.7/101

yield_bpm0i01aX_mean vs Slug, Sign Corrected



Right In: -2.014+/-0.000 χ^2/NDF : 29727004043.0/24

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

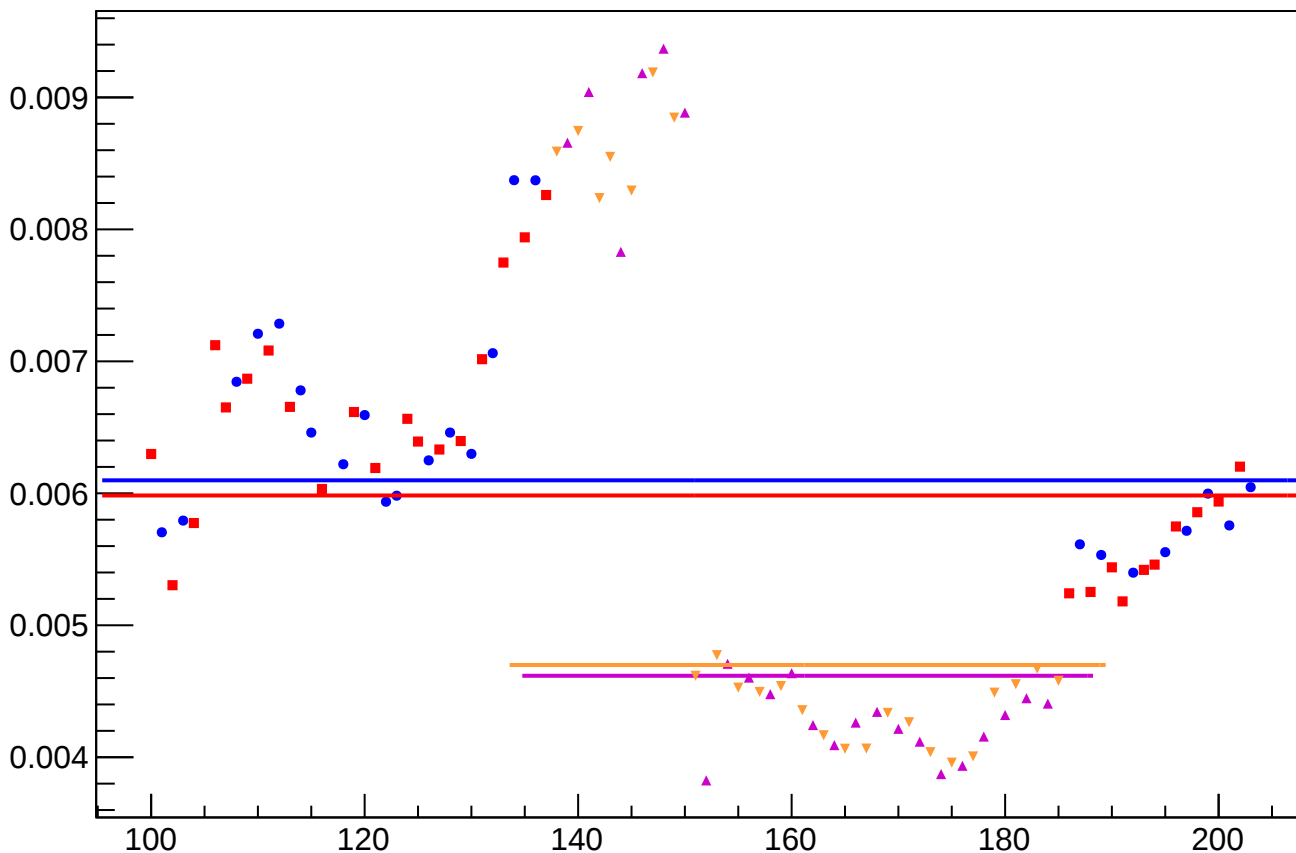
Right: -1.994+/-0.000 χ^2/NDF : 64225693825.8/53

In: -2.128+/-0.000 χ^2/NDF : 109099623605.7/47

Out: -2.108+/-0.000 χ^2/NDF : 103305753461.7/53

All: -2.118+/-0.000 χ^2/NDF : 212633337621.8

yield_bpm0i01aX_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 301767.9/24

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

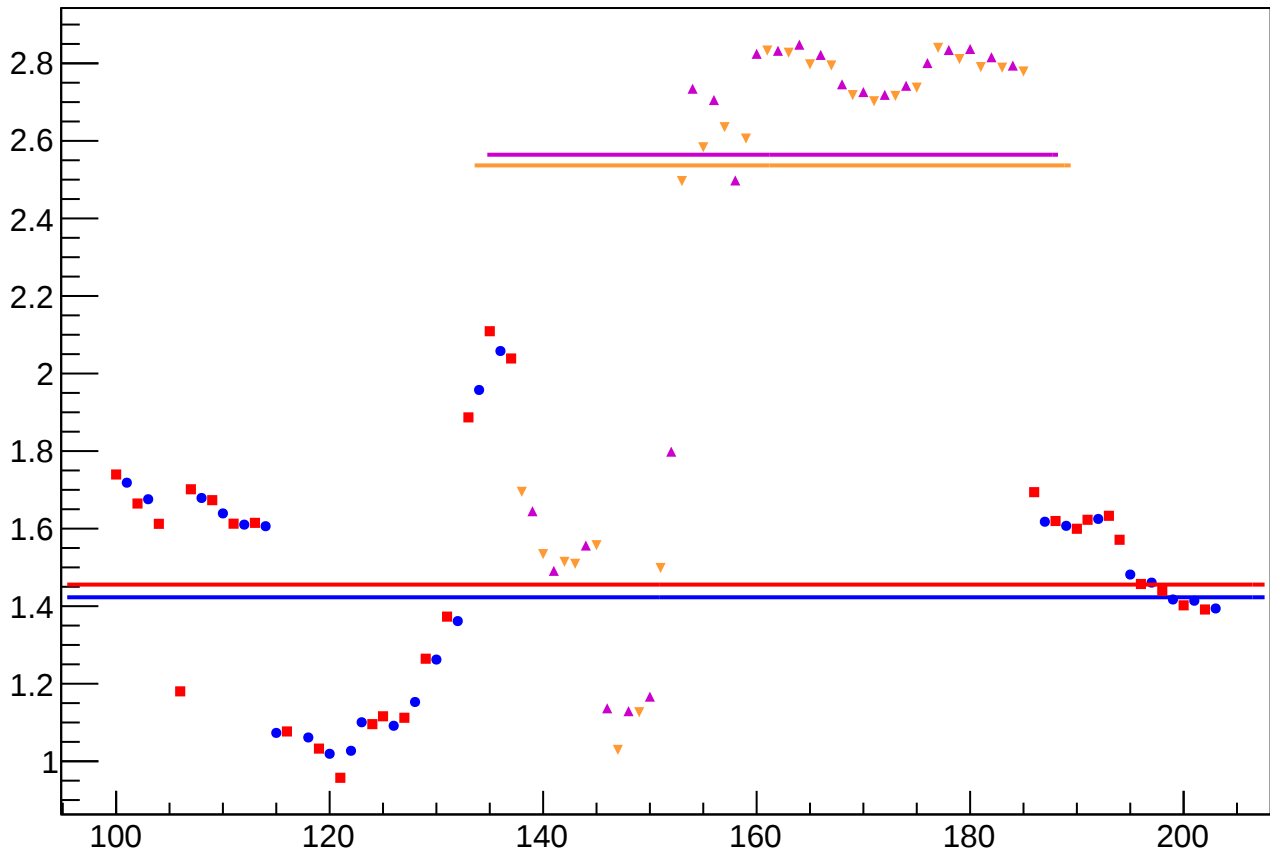
Right: 0.006+/-0.000 χ^2/NDF : 657188.2/53

In: 0.005+/-0.000 χ^2/NDF :3637991.3/47

Out: 0.005+/-0.000 χ^2/NDF :3476821.9/53

All: 0.005+/-0.000 χ^2/NDF : 7117589.5/101

yield_bpm0i01aY_mean vs Slug, Sign Corrected



Right In: 1.423+/-0.000 χ^2/NDF : 174111332729.7/24

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

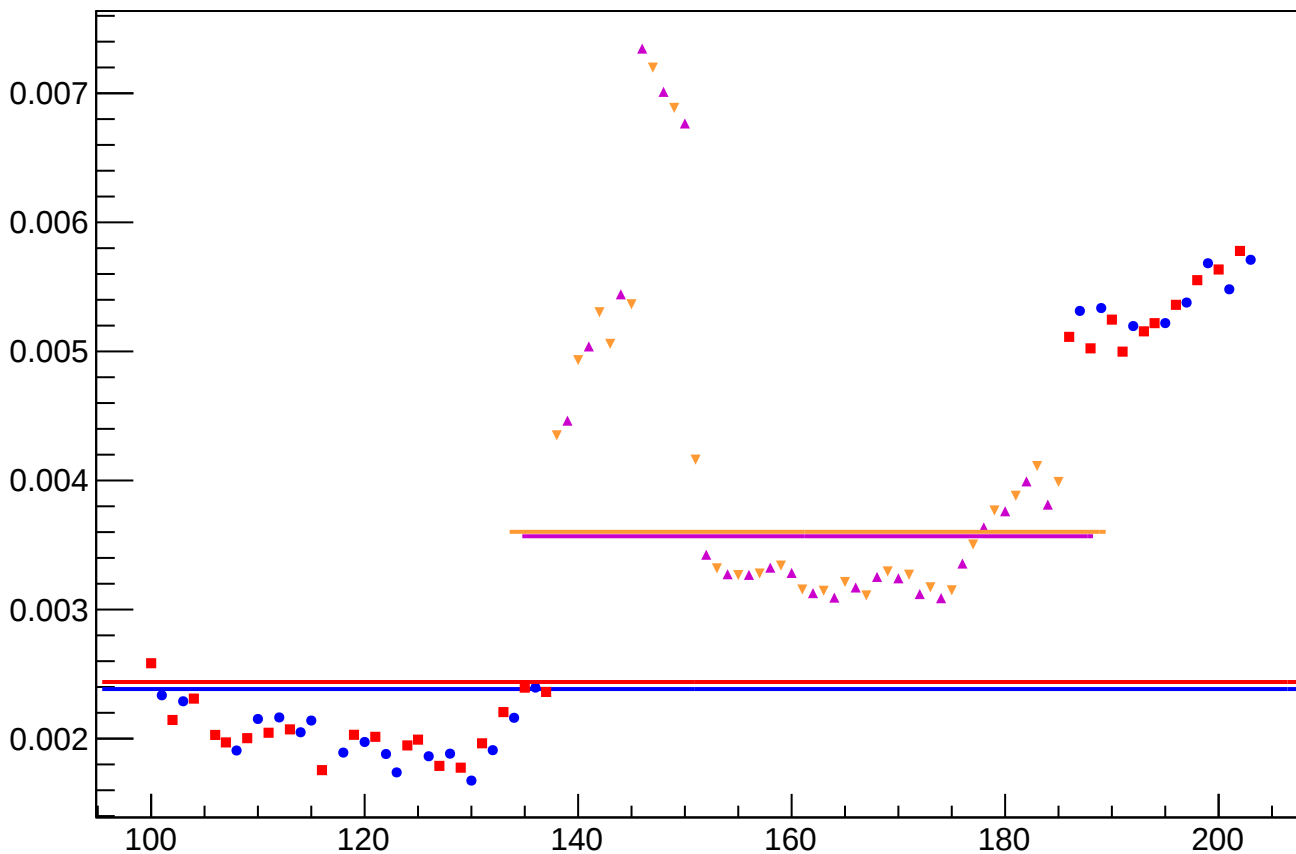
Right: 1.440+/-0.000 χ^2/NDF : 351850288496.9/53

In: 1.901+/-0.000 χ^2/NDF : 1363110785369.4/47

Out: 1.907+/-0.000 χ^2/NDF : 1323317055969.9/53

All: 1.904+/-0.000 χ^2/NDF : 2686488746814.

yield_bpm0i01aY_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 3998102.3/24

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

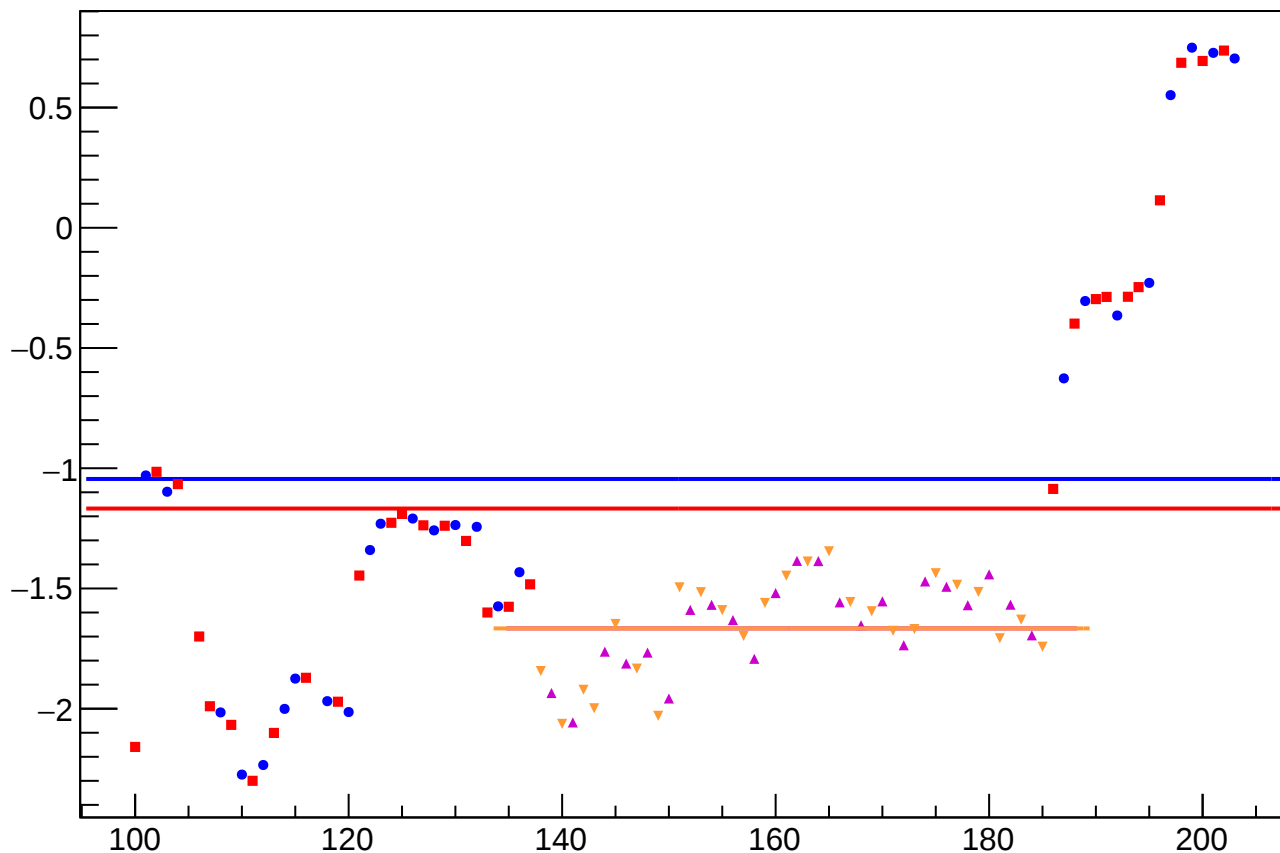
Right: 0.002+/-0.000 χ^2/NDF : 8364626.2/53

In: 0.003+/-0.000 χ^2/NDF :7559473.9/47

Out: 0.003+/-0.000 χ^2/NDF :7803665.1/53

All: 0.003+/-0.000 χ^2/NDF : 15369201.8/101

yield_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -1.045+/-0.000

χ^2/NDF : 142712236412.6/24

Left: -1.666+/-0.000

χ^2/NDF : 32617732948.1/47

Left Out: -1.666+/-0.000

χ^2/NDF : 18325162131.2/24

Right: -1.111+/-0.000

χ^2/NDF : 304807957401.9/53

Right Out: -1.168+/-0.000

χ^2/NDF : 160553972222.3/28

In: -1.471+/-0.000

χ^2/NDF : 206692617772.0/47

Out: -1.498+/-0.000

χ^2/NDF : 215741701993.3/53

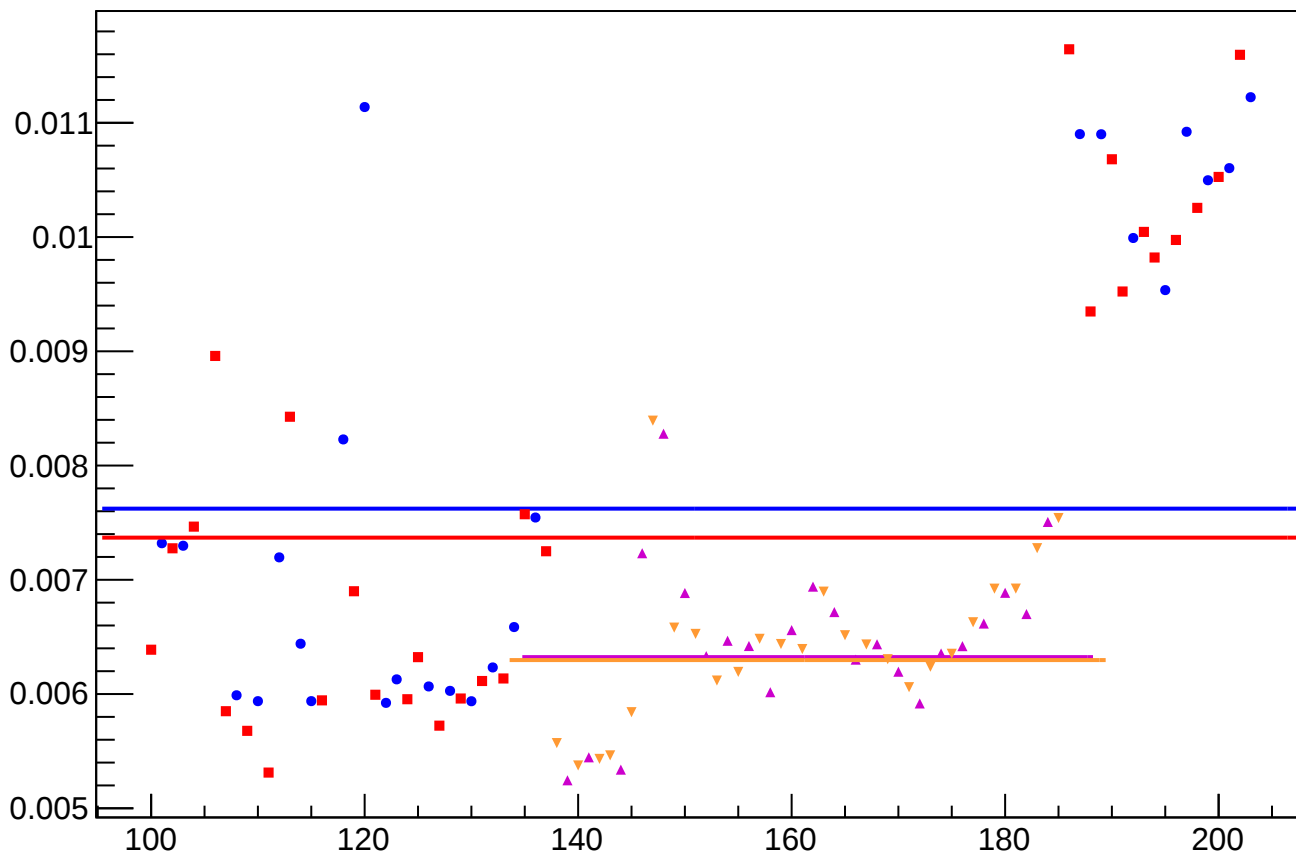
Left In: -1.666+/-0.000

χ^2/NDF : 14292570816.9/22

All: -1.485+/-0.000

χ^2/NDF : 422668008488.1

yield_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 1310744.3/24

Left Out: 0.006+/-0.000 χ^2/NDF :310757.0/24

Right Out: 0.007+/-0.000 χ^2/NDF : 1545219.6/28

Left In: 0.006+/-0.000 χ^2/NDF :330859.7/22

Left: 0.006+/-0.000 χ^2/NDF : 641901.9/47

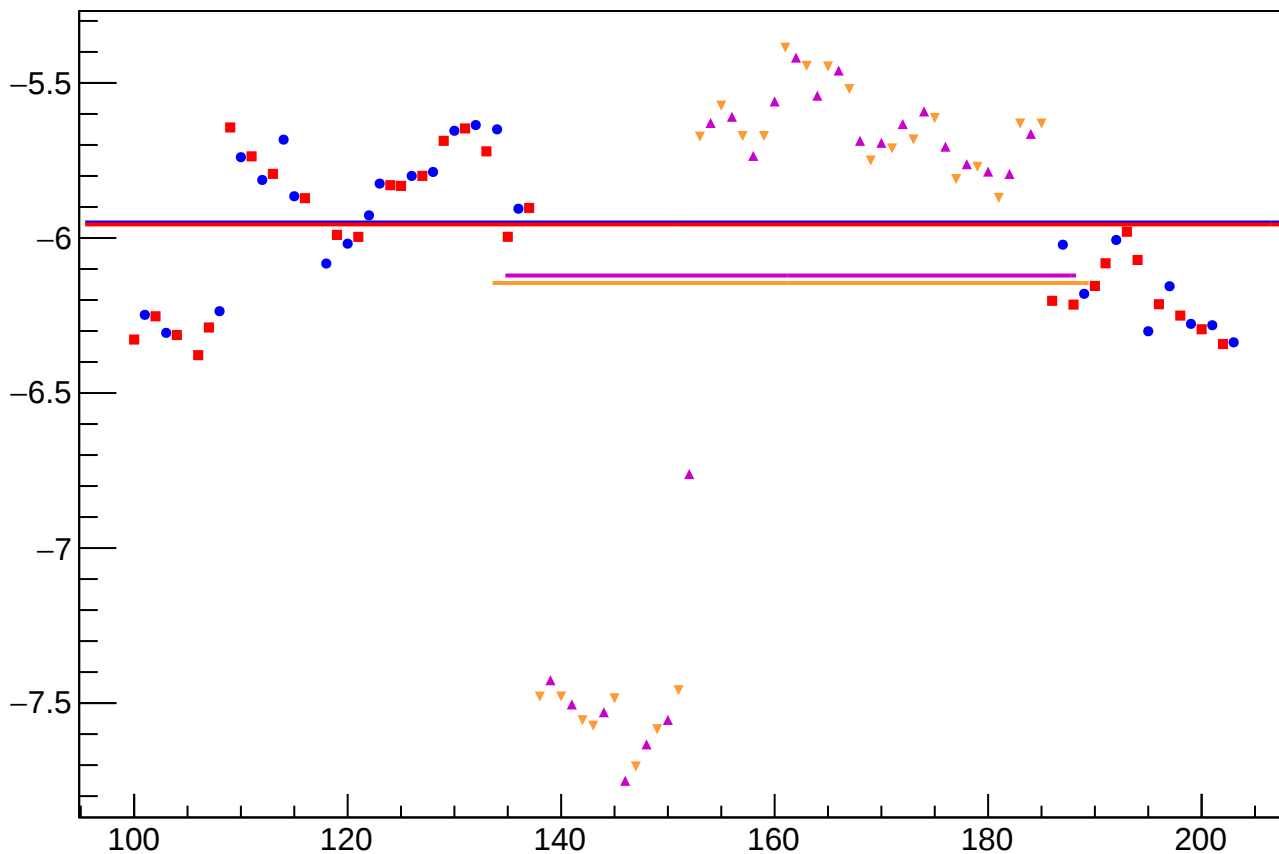
Right: 0.007+/-0.000 χ^2/NDF : 2869090.2/53

In: 0.007+/-0.000 χ^2/NDF :2076067.1/47

Out: 0.007+/-0.000 χ^2/NDF :2196683.7/53

All: 0.007+/-0.000 χ^2/NDF : 4276107.0/101

yield_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: -5.950+/-0.000 χ^2/NDF : 13908367902.6/24

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

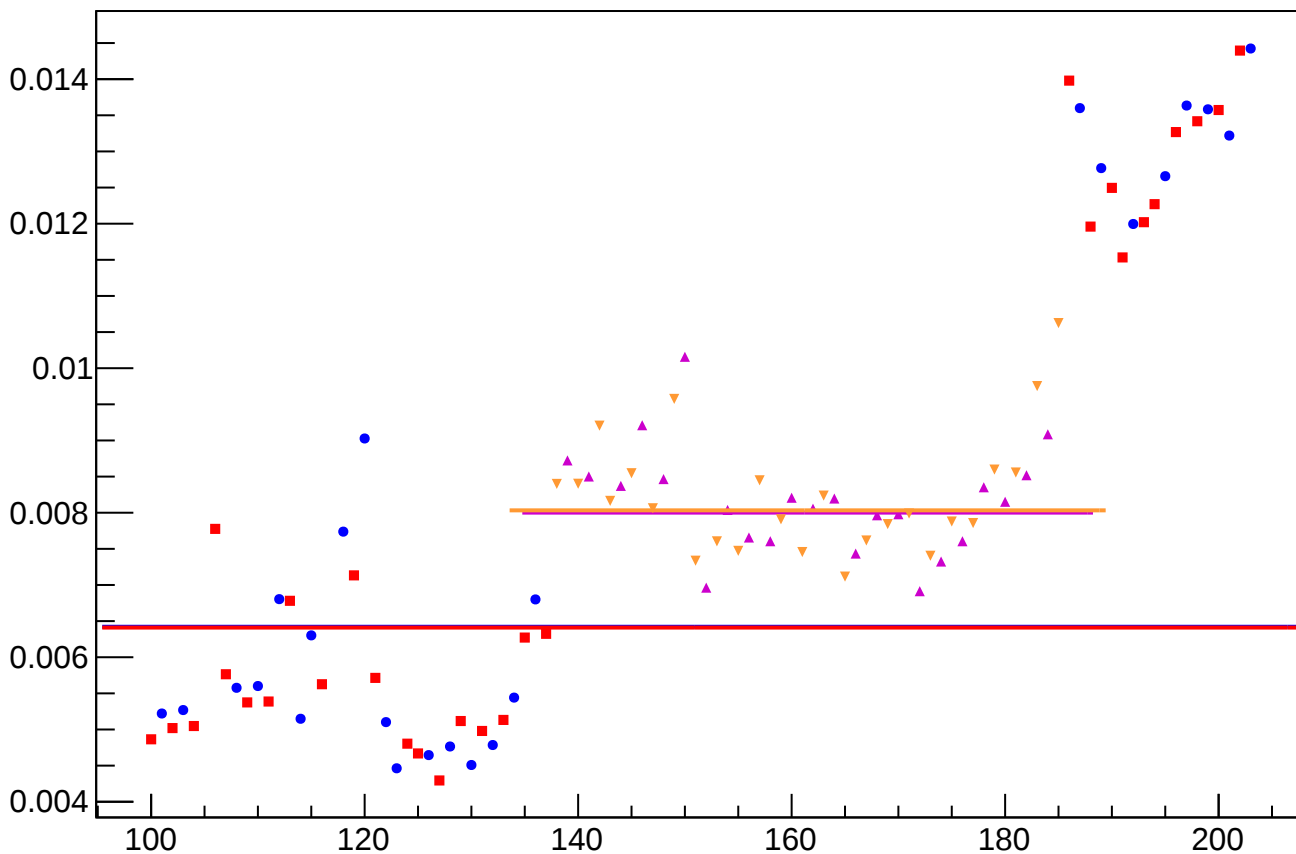
Right: -5.953+/-0.000 χ^2/NDF : 29250781238.5/53

In: -6.038+/-0.000 χ^2/NDF : 175724981619.6/47

Out: -6.050+/-0.000 χ^2/NDF : 205315455513.7/53

All: -6.044+/-0.000 χ^2/NDF : 381076948749.7

yield_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 3584954.0/24

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

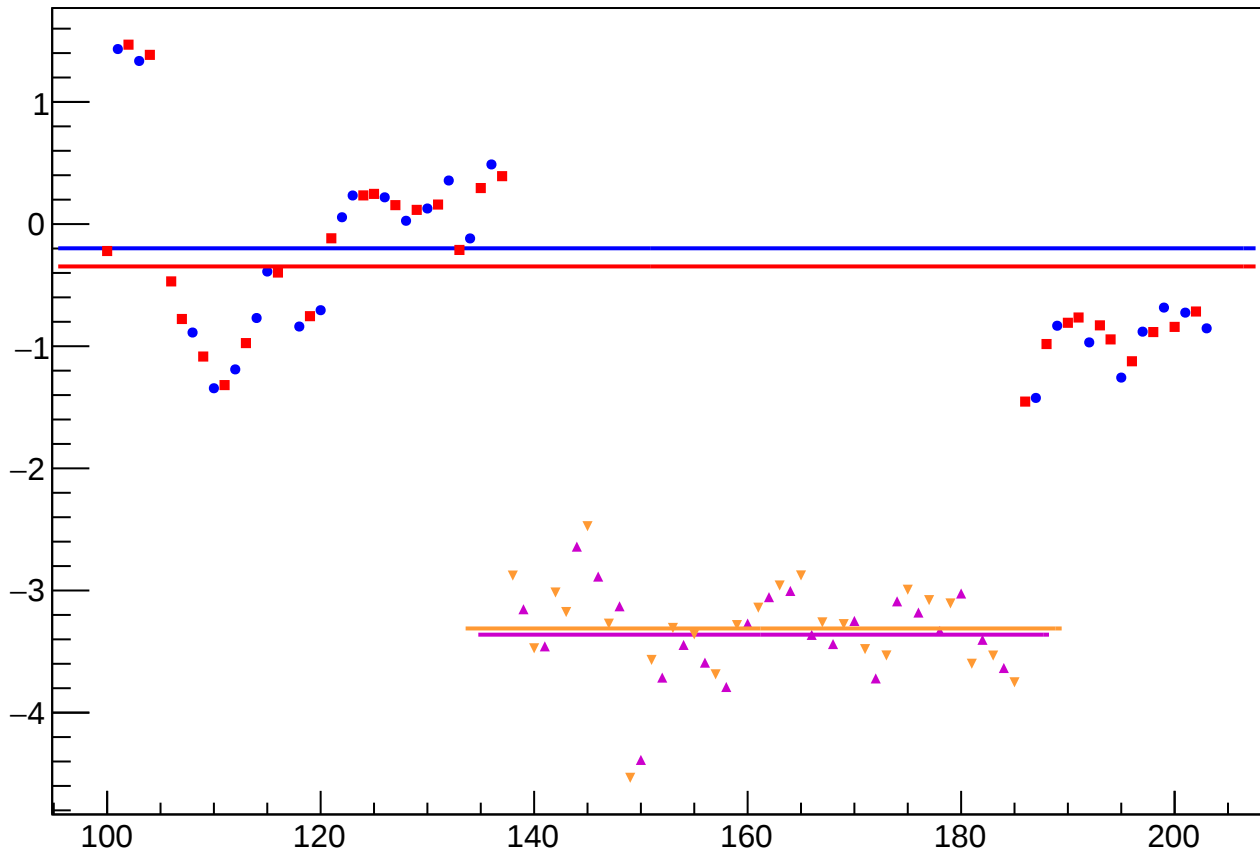
Right: 0.006+/-0.000 χ^2/NDF : 7438367.3/53

In: 0.007+/-0.000 χ^2/NDF :4403422.7/47

Out: 0.007+/-0.000 χ^2/NDF :4739617.0/53

All: 0.007+/-0.000 χ^2/NDF : 9143193.0/101

yield_bpm0l02X_mean vs Slug, Sign Corrected



Right In: -0.198+/-0.000 χ^2/NDF : 29388553996.8/24

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

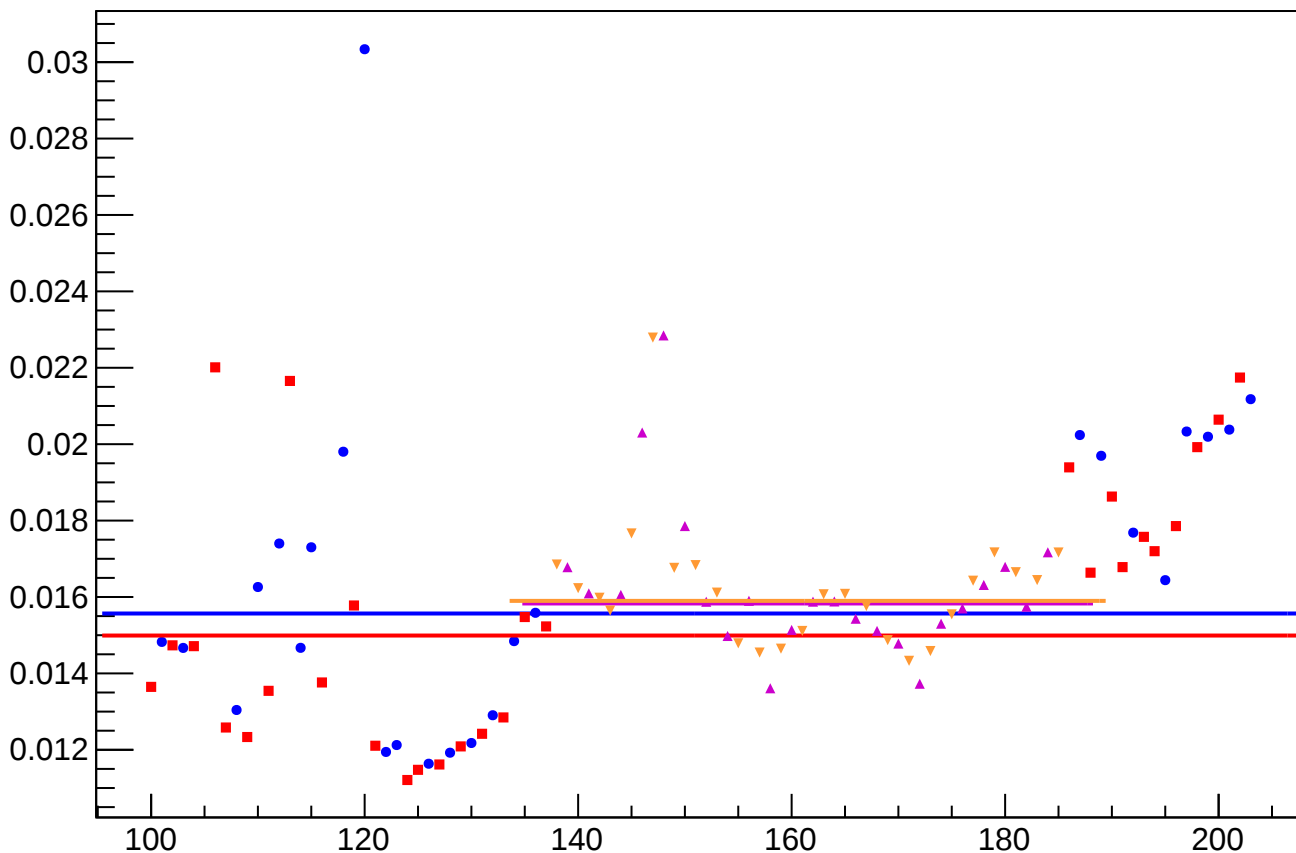
Right: -0.280+/-0.000 χ^2/NDF : 61337178723.7/53

In: -2.077+/-0.000 χ^2/NDF : 306736805918.5/47

Out: -2.009+/-0.000 χ^2/NDF : 310572199025.6/53

All: -2.041+/-0.000 χ^2/NDF : 617582766654.6

yield_bpm0l02X_rms vs Slug, Sign Corrected



Right In: 0.016+/-0.000 χ^2/NDF : 1017799.1/24

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

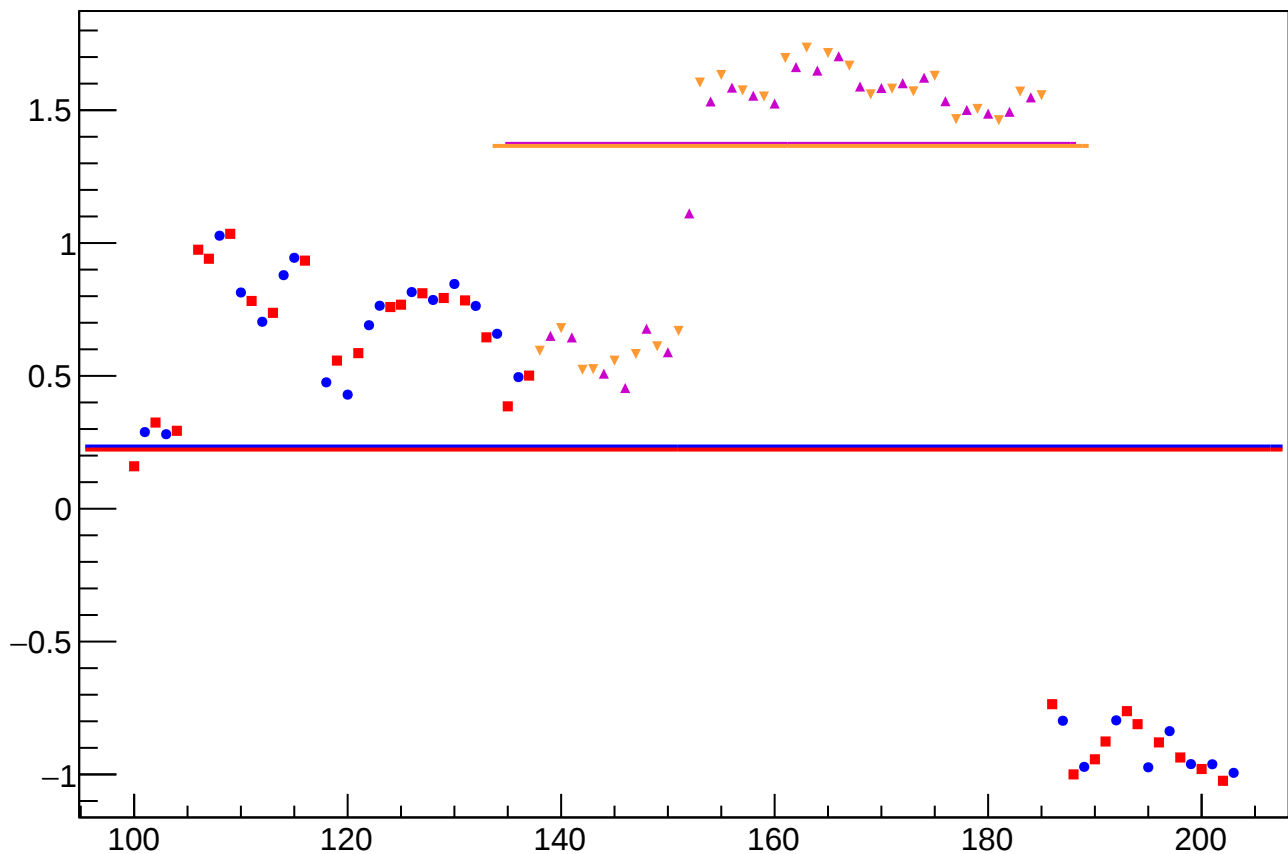
Right: 0.015+/-0.000 χ^2/NDF : 2034436.1/53

In: 0.016+/-0.000 χ^2/NDF :1361056.5/47

Out: 0.015+/-0.000 χ^2/NDF :1302612.9/53

All: 0.016+/-0.000 χ^2/NDF : 2669576.3/101

yield_bpm0l02Y_mean vs Slug, Sign Corrected



Right In: 0.234+/-0.000

χ^2/NDF : 61482751961.8/24

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: 0.228+/-0.000

χ^2/NDF : 134971526886.0/53

In: 1.113+/-0.000

χ^2/NDF : 251679410417.6/47

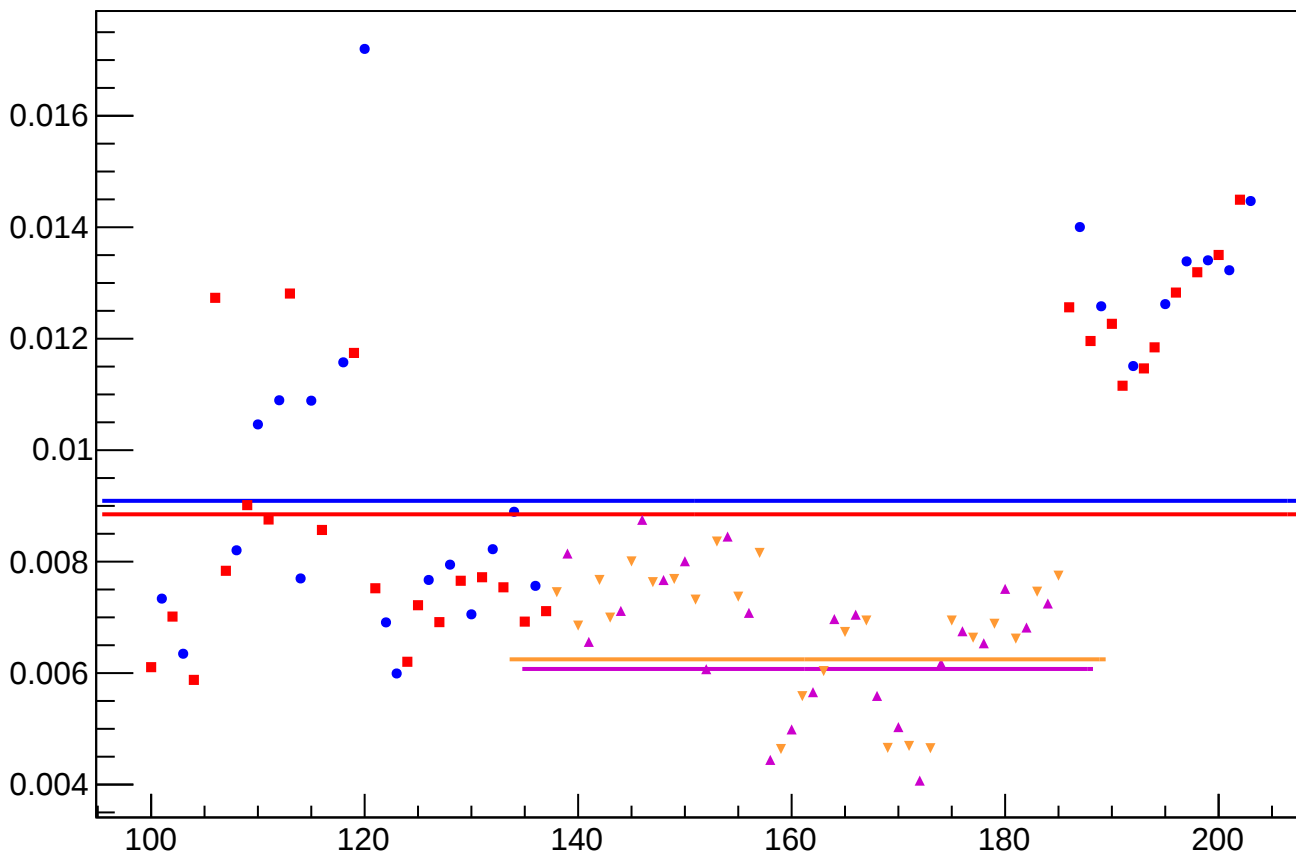
Out: 1.071+/-0.000

χ^2/NDF : 291645808177.8/53

All: 1.091+/-0.000

χ^2/NDF : 543817008710.8

yield_bpm0l02Y_rms vs Slug, Sign Corrected



Right In: 0.009+/-0.000 χ^2/NDF : 1762419.4/24

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

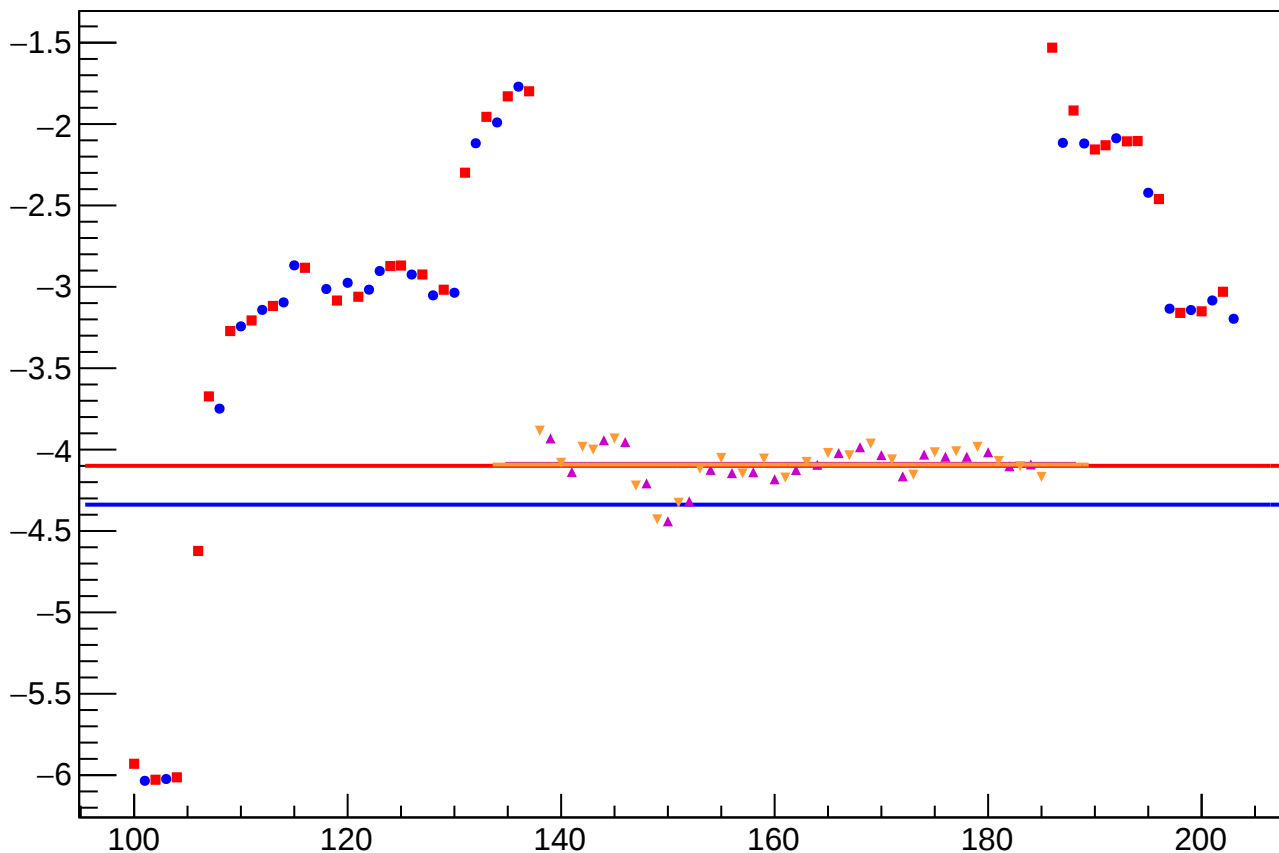
Right: 0.009+/-0.000 χ^2/NDF : 3668882.2/53

In: 0.007+/-0.000 χ^2/NDF :4973310.9/47

Out: 0.007+/-0.000 χ^2/NDF :4716245.7/53

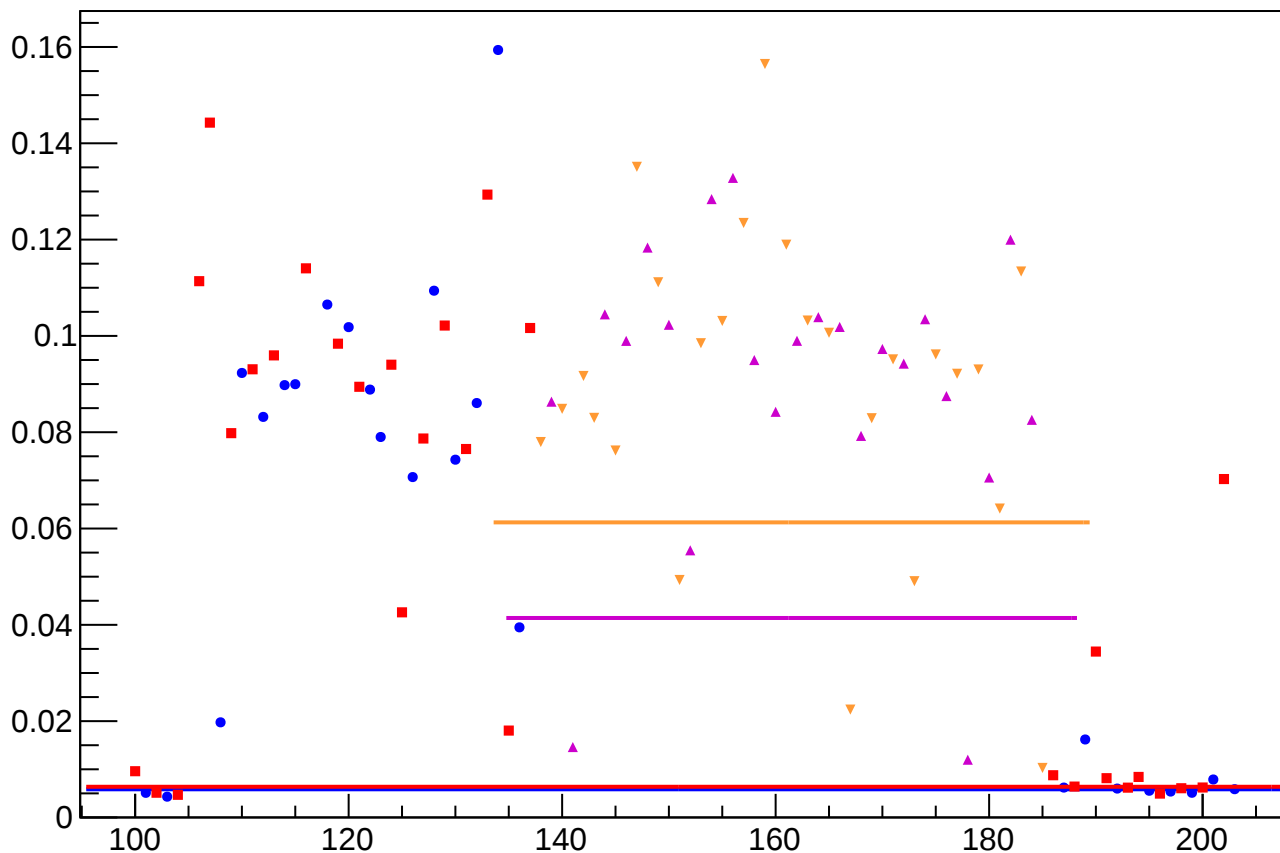
All: 0.007+/-0.000 χ^2/NDF : 9702897.9/101

yield_bpm0l03X_mean vs Slug, Sign Corrected



Right In: -4.338+/-0.000	χ^2/NDF : 262056579767.5/24	Left: -4.089+/-0.000	χ^2/NDF : 74248792.8/47
Left Out: -4.092+/-0.000	χ^2/NDF : 39806766.7/24	Right: -4.232+/-0.000	χ^2/NDF : 532571563864.6/53
Right Out: -4.100+/-0.000	χ^2/NDF : 268044776229.6/28	In: -4.328+/-0.000	χ^2/NDF : 262347315648.5/47
Left In: -4.088+/-0.000	χ^2/NDF : 34412880.7/22	Out: -4.099+/-0.000	χ^2/NDF : 268084754735.9/53
		All: -4.226+/-0.000	χ^2/NDF : 532786516256.9

yield_bpm0l03X_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 8039702.9/24

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

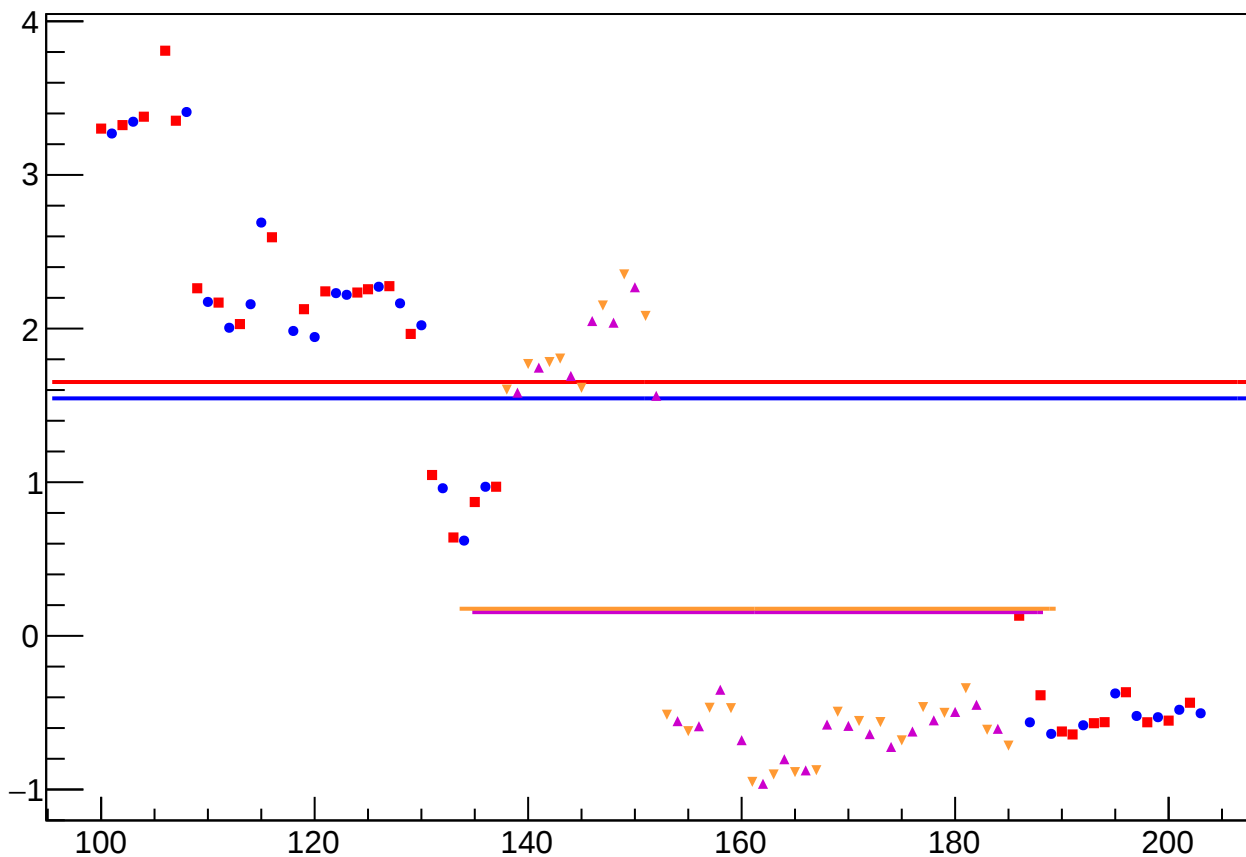
Right: 0.006+/-0.000 χ^2/NDF : 17317065.9/53

In: 0.007+/-0.000 χ^2/NDF :31506114.0/47

Out: 0.008+/-0.000 χ^2/NDF :34763943.0/53

All: 0.008+/-0.000 χ^2/NDF : 66365331.4/101

yield_bpm0l03Y_mean vs Slug, Sign Corrected



Right In: 1.546 $\pm$ 0.000 χ^2 /NDF: 188644191324.5/24

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

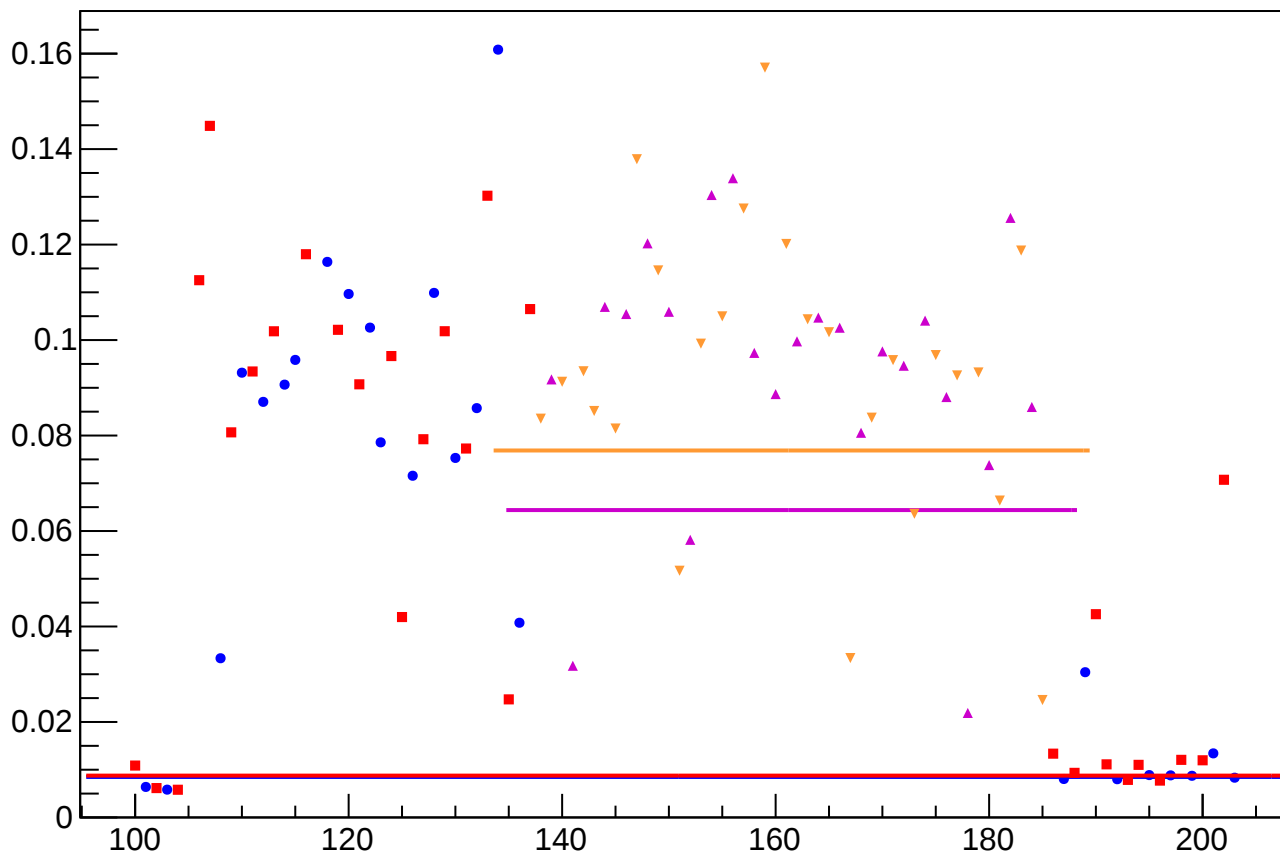
Right: 1.596 $\pm$ 0.000 χ^2 /NDF: 354992580676.4/53

In: 1.481 $\pm$ 0.000 χ^2 /NDF: 196568760430.5/47

Out: 1.584 $\pm$ 0.000 χ^2 /NDF: 174051121455.8/53

All: 1.530 $\pm$ 0.000 χ^2 /NDF: 370899533218.2

yield_bpm0l03Y_rms vs Slug, Sign Corrected



Right In: 0.008 $\pm$ 0.000 χ^2 /NDF: 7991084.3/24

Left Out: 0.077 $\pm$ 0.000 χ^2 /NDF:4217954.3/24

Right Out: 0.009 $\pm$ 0.000 χ^2 /NDF: 9132995.7/28

Left In: 0.064 $\pm$ 0.000 χ^2 /NDF:6990231.5/22

Left: 0.070 $\pm$ 0.000 χ^2 /NDF: 11584112.3/47

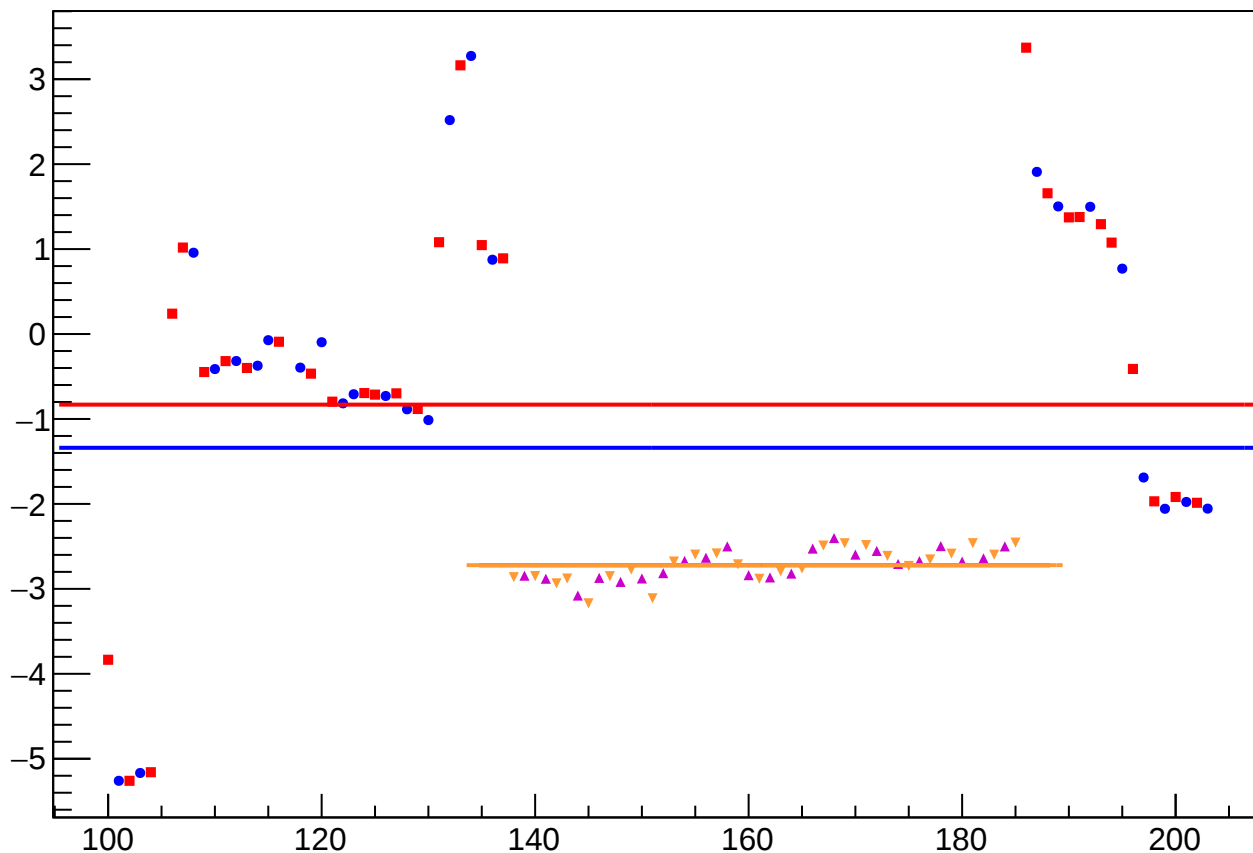
Right: 0.009 $\pm$ 0.000 χ^2 /NDF: 17127884.5/53

In: 0.011 $\pm$ 0.000 χ^2 /NDF:30351058.7/47

Out: 0.012 $\pm$ 0.000 χ^2 /NDF:33416305.9/53

All: 0.011 $\pm$ 0.000 χ^2 /NDF: 63800954.9/101

yield_bpm0l04X_mean vs Slug, Sign Corrected



Right In: -1.339+/-0.000 χ^2/NDF : 204208733505.2/24

Left Out: -2.721+/-0.000 χ^2/NDF : 10397156971.6/24

Right Out: -0.831+/-0.000 χ^2/NDF : 231845030493.1/28

Left In: -2.722+/-0.000 χ^2/NDF : 8146484592.1/22

Left: -2.722+/-0.000 χ^2/NDF : 18543711860.5/47

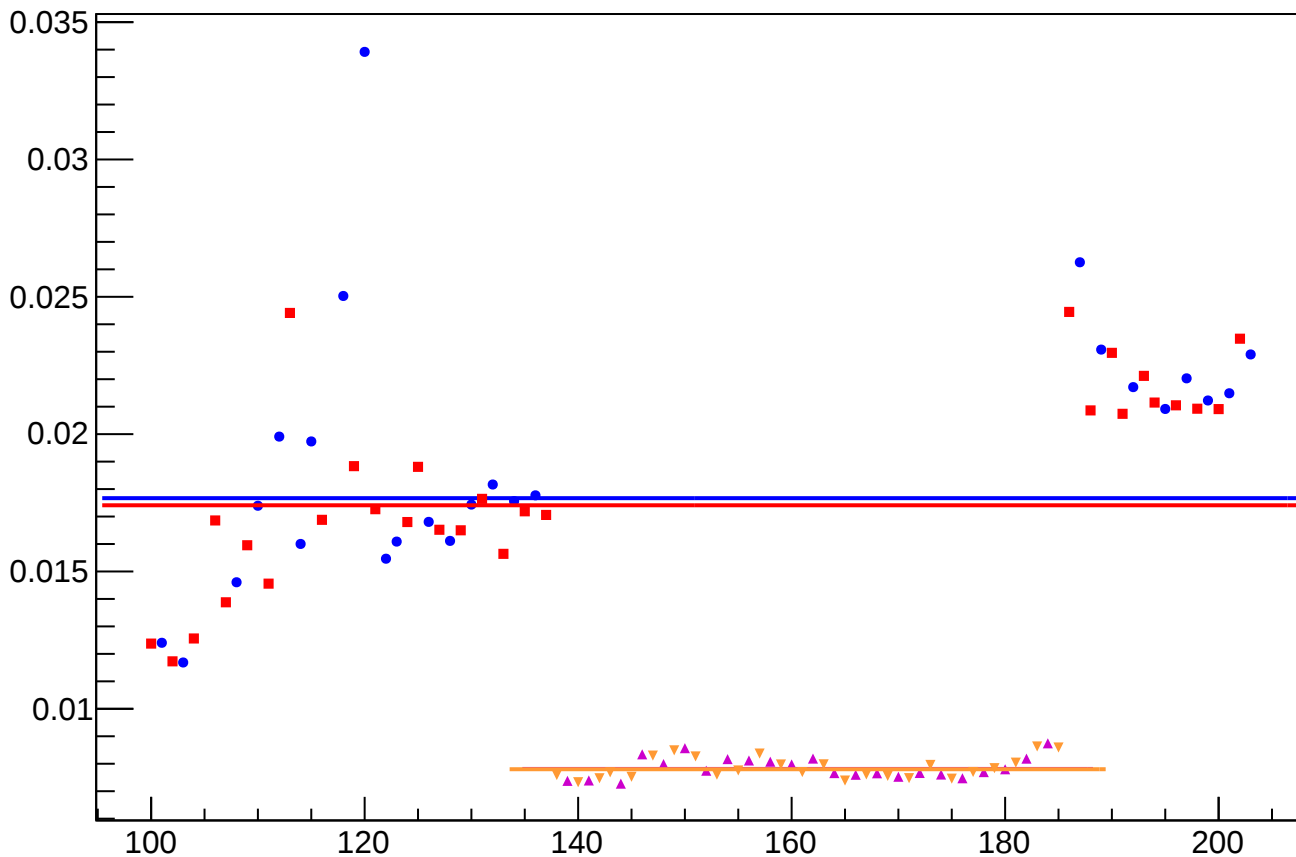
Right: -1.066+/-0.000 χ^2/NDF : 440793595278.8/53

In: -2.569+/-0.000 χ^2/NDF : 270312415455.3/47

Out: -2.494+/-0.000 χ^2/NDF : 367197668410.1/53

All: -2.530+/-0.000 χ^2/NDF : 638401573702.1

yield_bpm0l04X_rms vs Slug, Sign Corrected



Right In: 0.018+/-0.000 χ^2/NDF : 1176658.6/24

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

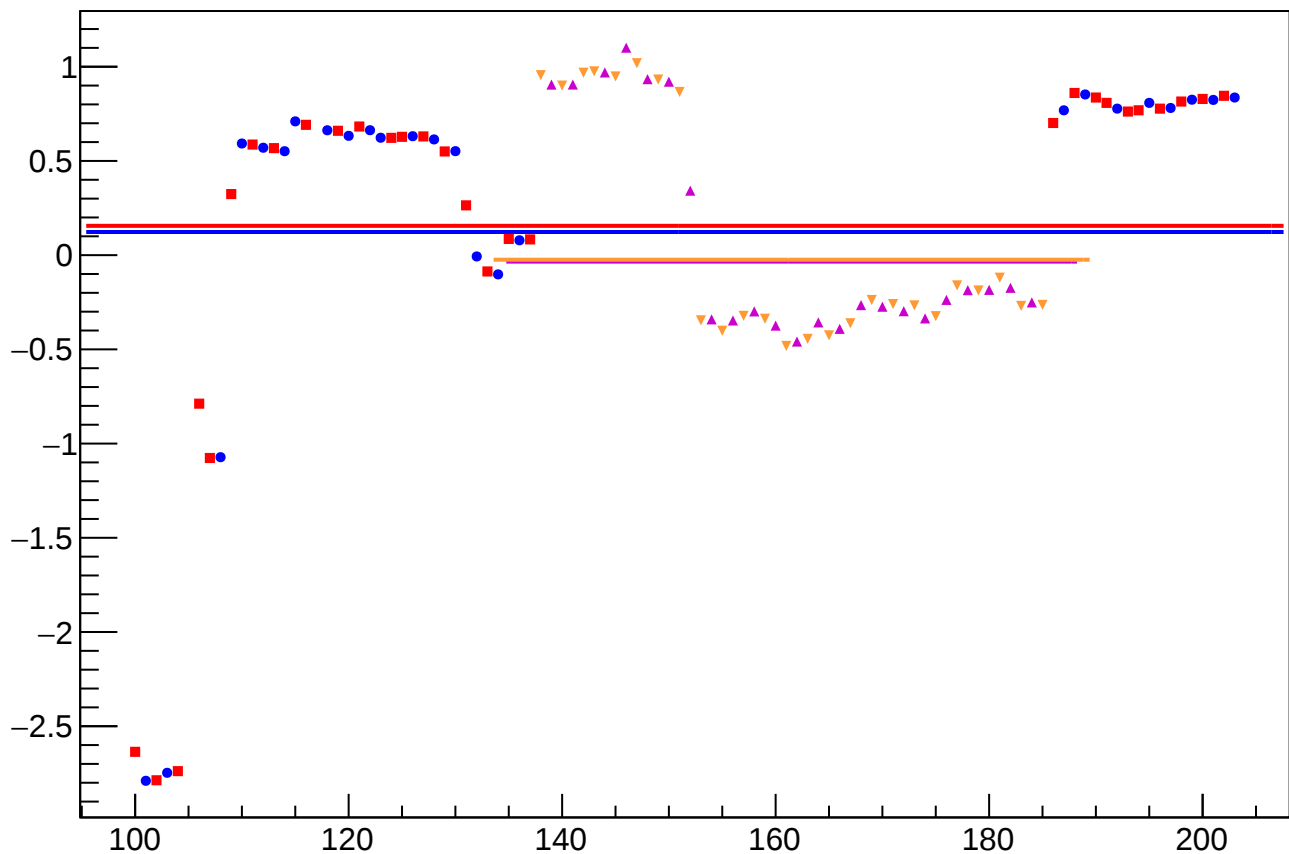
Right: 0.018+/-0.000 χ^2/NDF : 2230742.6/53

In: 0.009+/-0.000 χ^2/NDF : 7137579.7/47

Out: 0.009+/-0.000 χ^2/NDF : 7582864.4/53

All: 0.009+/-0.000 χ^2/NDF : 14721339.8/101

yield_bpm0l04Y_mean vs Slug, Sign Corrected



Right In: 0.123+/-0.000

χ^2/NDF : 842510850868.7/24

Left: -0.029+/-0.000

χ^2/NDF : 249405201350.6/47

Left Out: -0.024+/-0.000

χ^2/NDF : 135451649275.0/24

Right: 0.140+/-0.000

χ^2/NDF : 1750635998176.3/53

Right Out: 0.156+/-0.000

χ^2/NDF : 907722154181.4/28

In: 0.060+/-0.000

χ^2/NDF : 963380853005.0/47

Out: 0.088+/-0.000

χ^2/NDF : 1052922207132.8/53

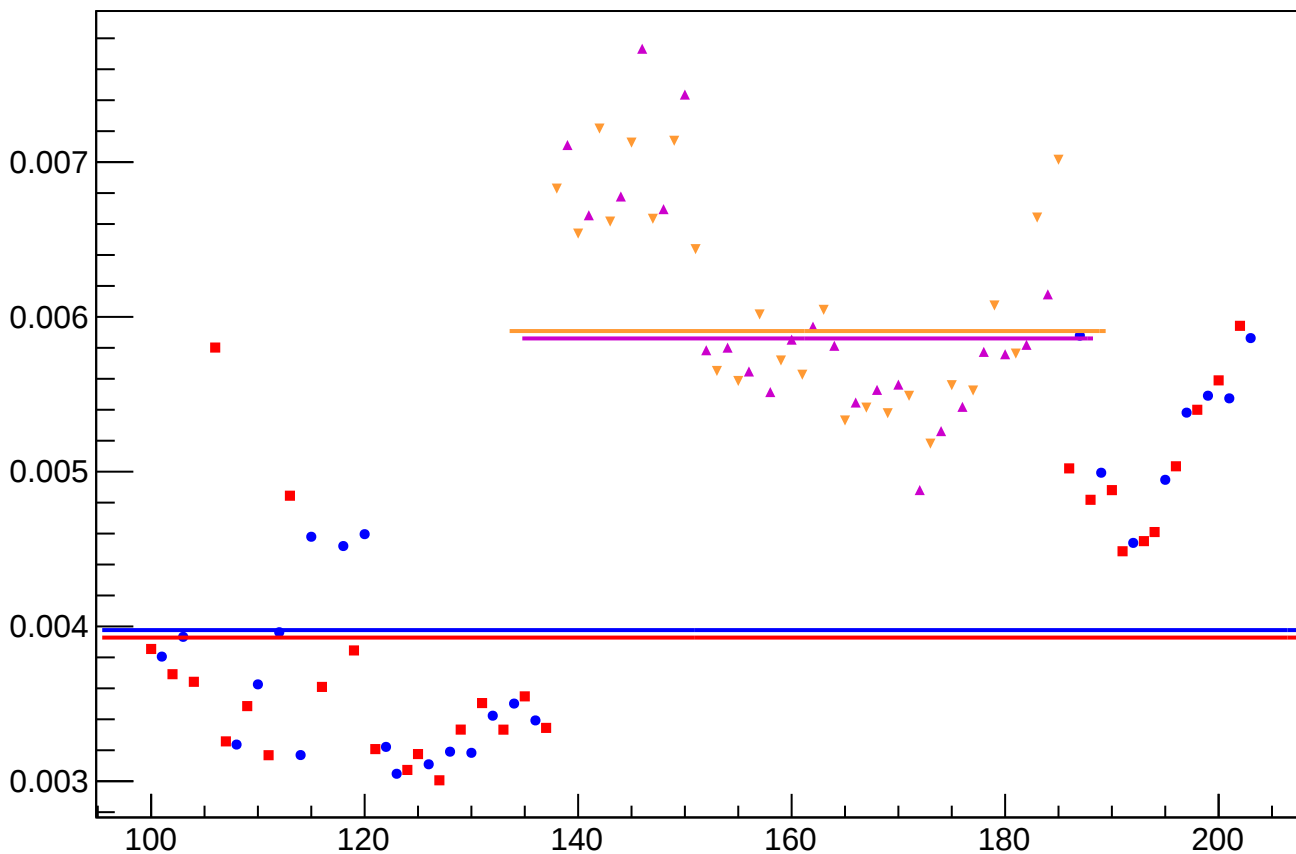
Left In: -0.034+/-0.000

χ^2/NDF : 113929060918.1/22

All: 0.075+/-0.000

χ^2/NDF : 2016771866782.0/100

yield_bpm0l04Y_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 1045914.9/24

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

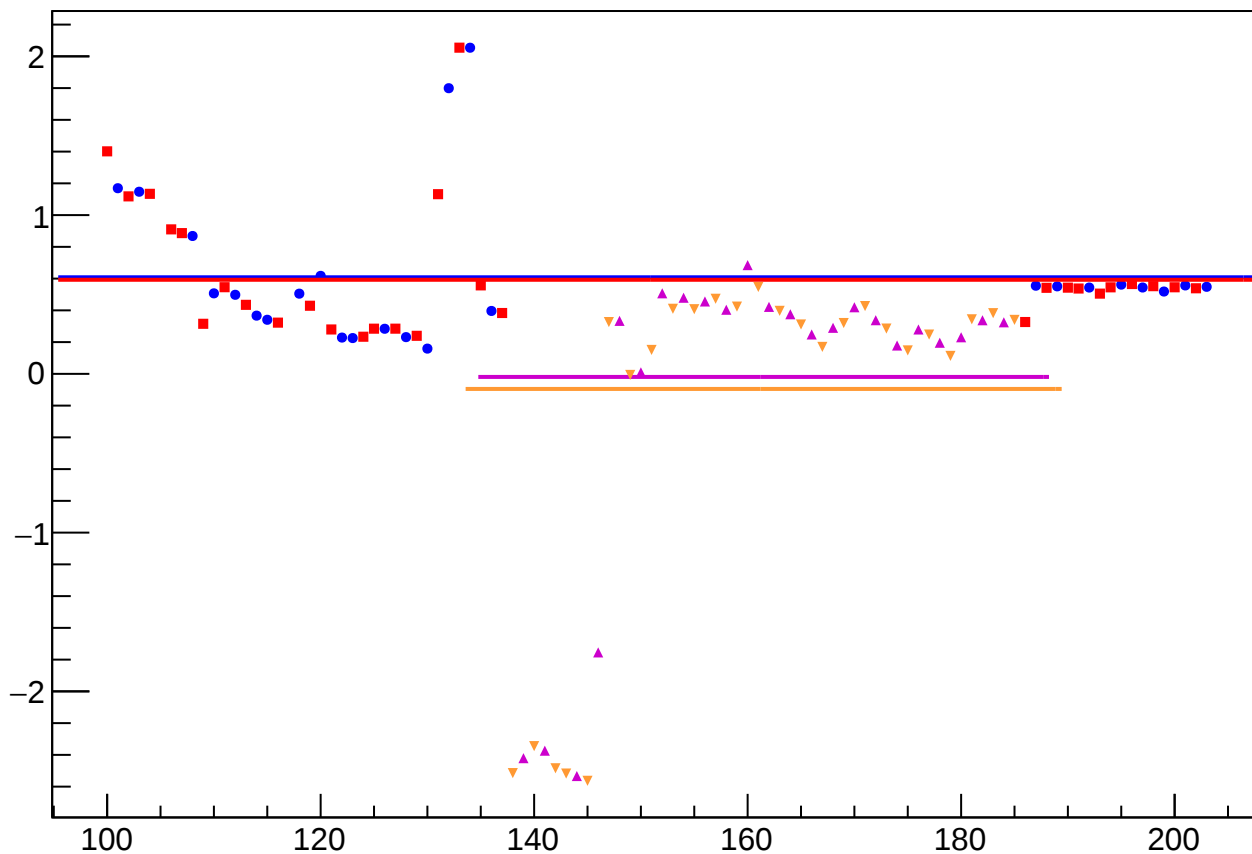
Right: 0.004+/-0.000 χ^2/NDF : 2138449.8/53

In: 0.005+/-0.000 χ^2/NDF :3404603.1/47

Out: 0.005+/-0.000 χ^2/NDF :3770727.3/53

All: 0.005+/-0.000 χ^2/NDF : 7178751.4/101

yield_bpm0l05X_mean vs Slug, Sign Corrected



Right In: 0.608+/-0.000

χ^2/NDF : 40440577175.4/24

Left: -0.058+/-0.000

χ^2/NDF : 924153662333.7/47

Right: 0.600+/-0.000

χ^2/NDF : 86254418285.1/53

Left Out: -0.095+/-0.000

χ^2/NDF : 505606573631.9/24

In: 0.334+/-0.000

χ^2/NDF : 566822122039.1/47

Right Out: 0.593+/-0.000

χ^2/NDF : 45730499868.2/28

Out: 0.311+/-0.000

χ^2/NDF : 695279626691.0/53

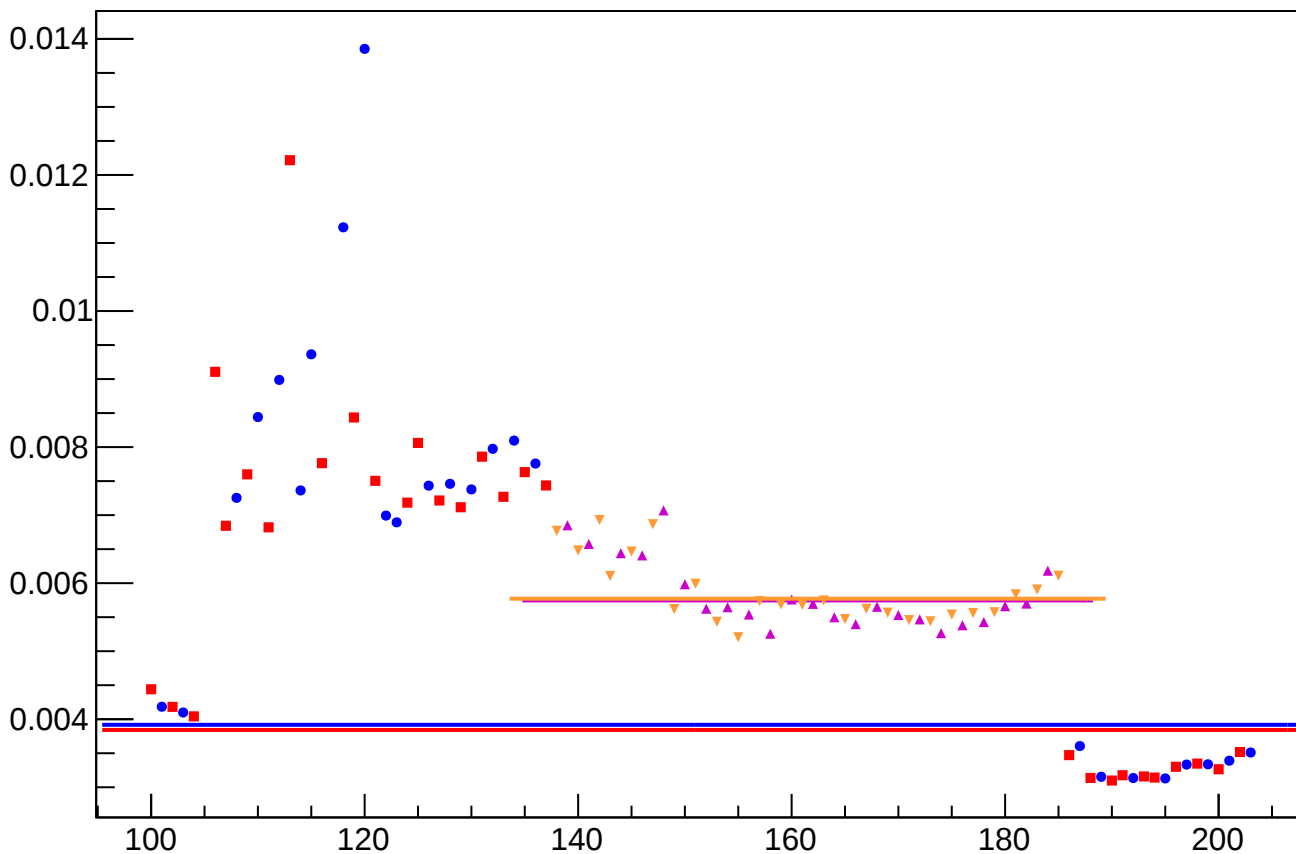
Left In: -0.019+/-0.000

χ^2/NDF : 417104863944.5/22

All: 0.322+/-0.000

χ^2/NDF : 1262396133738.

yield_bpm0l05X_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 3057832.5/24

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

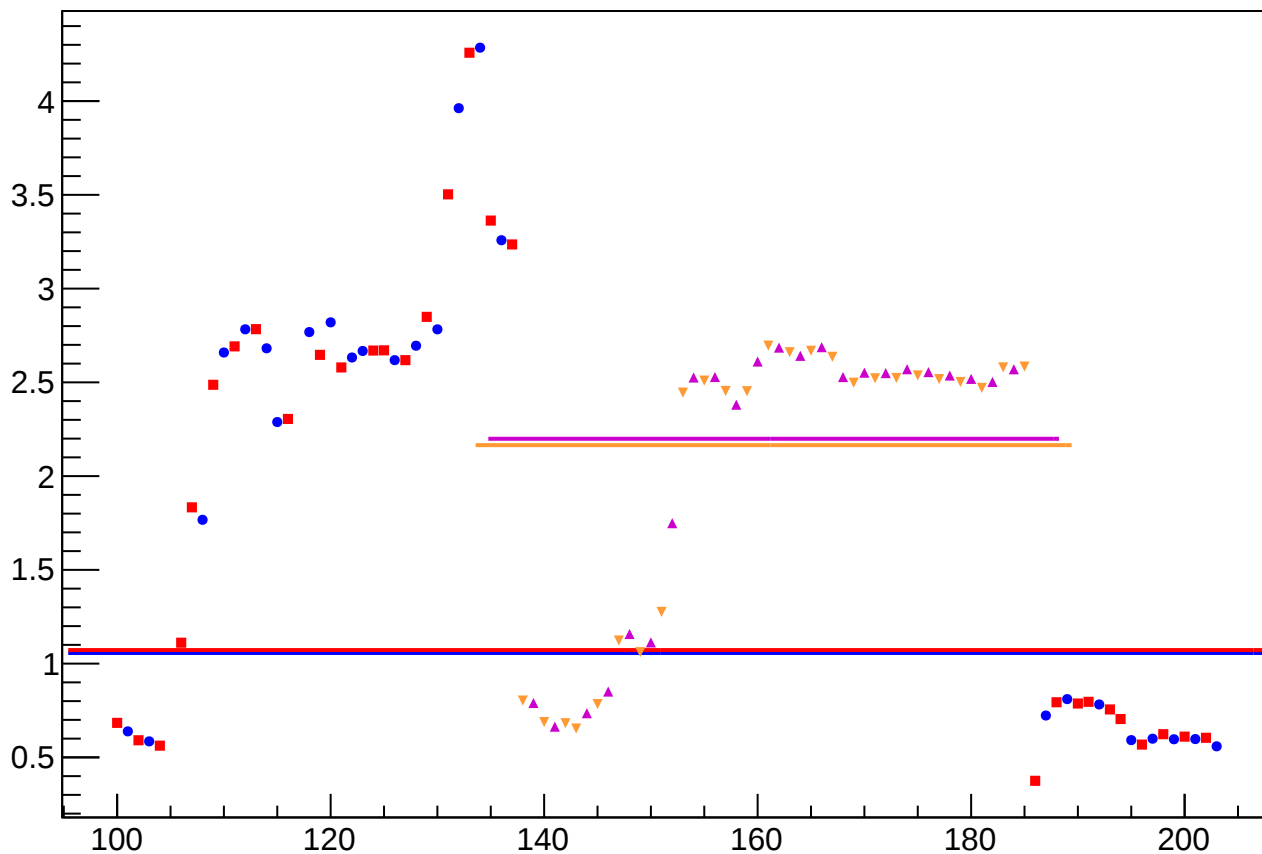
Right: 0.004+/-0.000 χ^2/NDF : 6180547.3/53

In: 0.005+/-0.000 χ^2/NDF :5116972.5/47

Out: 0.005+/-0.000 χ^2/NDF :5562380.8/53

All: 0.005+/-0.000 χ^2/NDF : 10688179.4/101

yield_bpm0l05Y_mean vs Slug, Sign Corrected



Right In: 1.057+/-0.000 χ^2/NDF : 281426076498.4/24

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

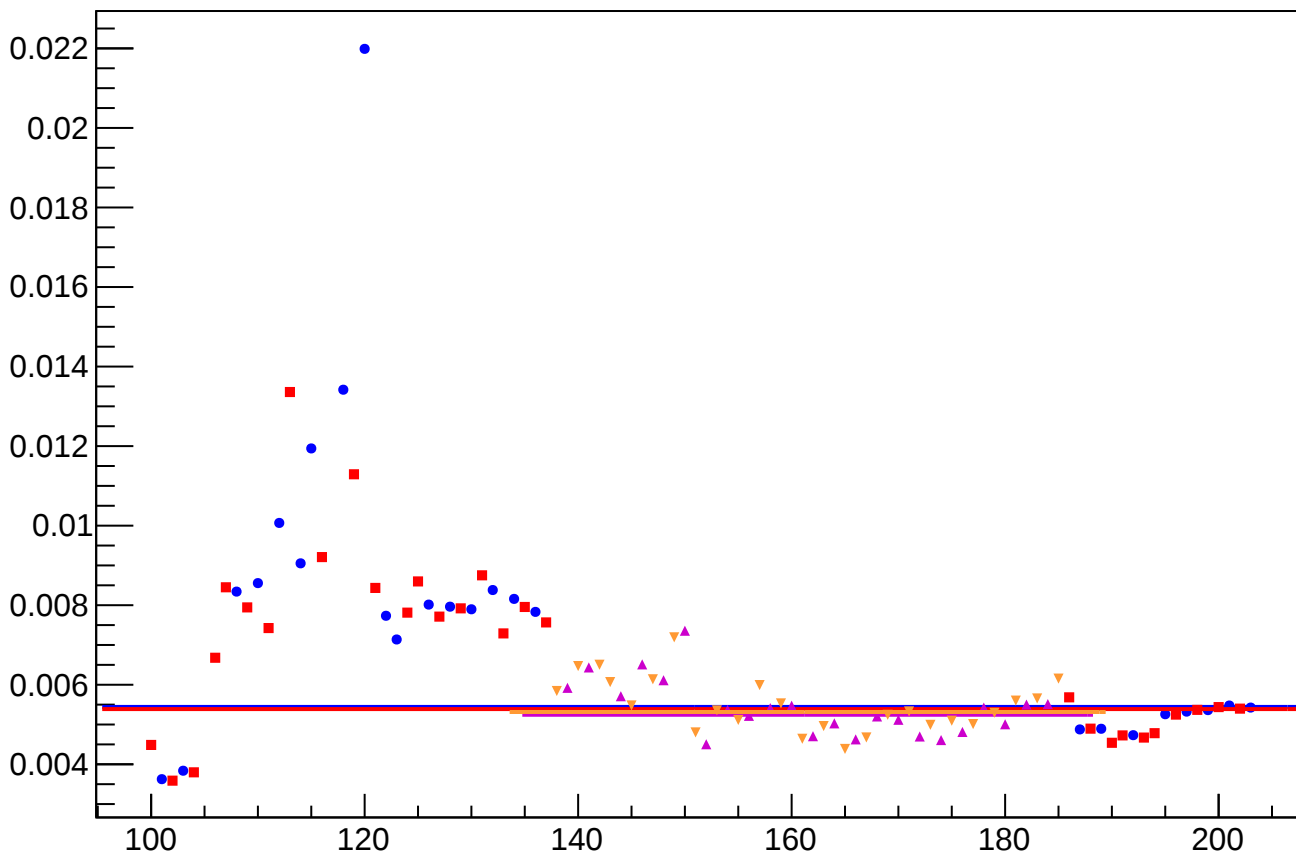
Right: 1.065+/-0.000 χ^2/NDF : 609714631060.5/53

In: 1.773+/-0.000 χ^2/NDF : 813175448283.9/47

Out: 1.727+/-0.000 χ^2/NDF : 902225567187.5/53

All: 1.749+/-0.000 χ^2/NDF : 1716403926748.

yield_bpm0l05Y_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 2004781.7/24

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

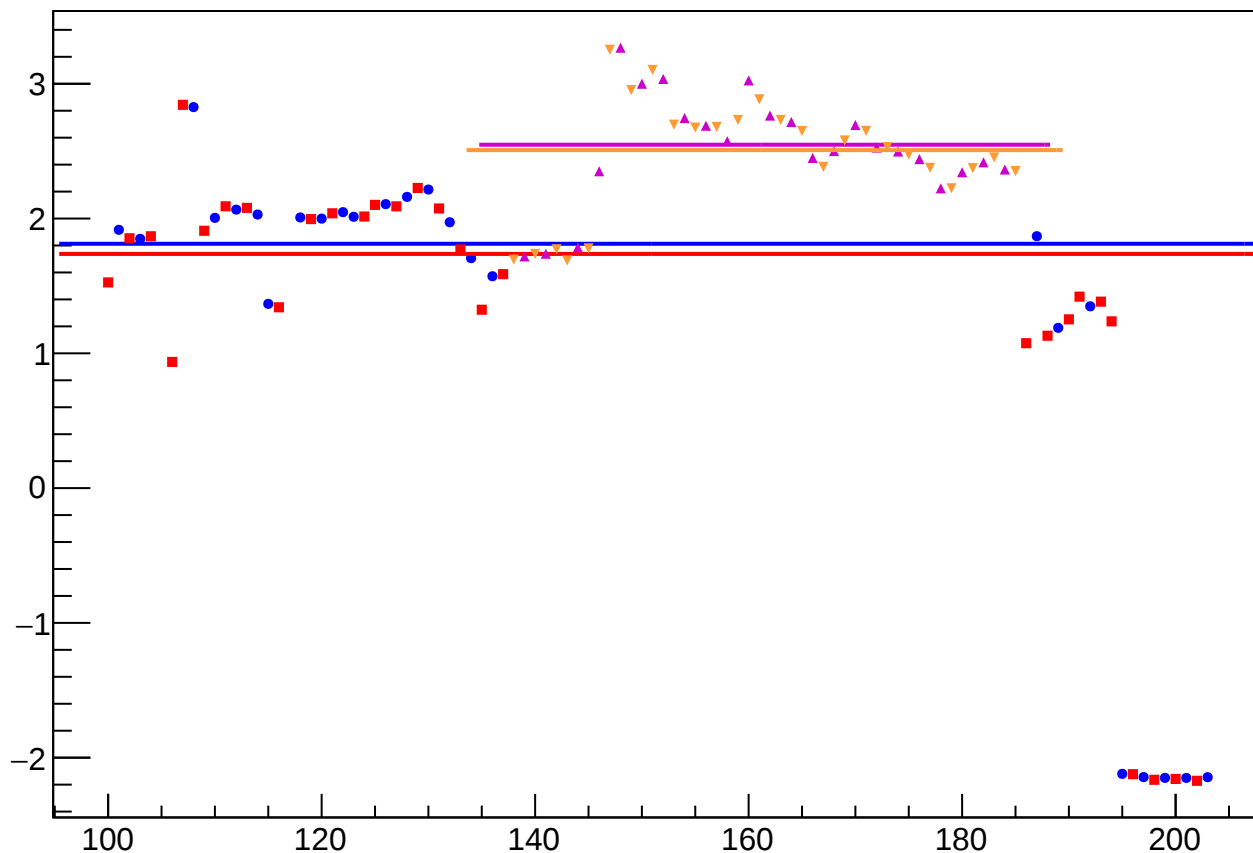
Right: 0.005+/-0.000 χ^2/NDF : 3881952.9/53

In: 0.005+/-0.000 χ^2/NDF :2447217.6/47

Out: 0.005+/-0.000 χ^2/NDF :2277413.0/53

All: 0.005+/-0.000 χ^2/NDF : 4725246.7/101

yield_bpm0l06X_mean vs Slug, Sign Corrected



Right In: 1.813 $\pm$ 0.000 χ^2 /NDF: 101981122306.3/24

Left Out: 2.508 $\pm$ 0.000 χ^2 /NDF: 52355332406.0/24

Right Out: 1.737 $\pm$ 0.000 χ^2 /NDF: 93245623717.4/28

Left In: 2.548 $\pm$ 0.000 χ^2 /NDF: 45350336058.7/22

Left: 2.527 $\pm$ 0.000 χ^2 /NDF: 97963993742.3/47

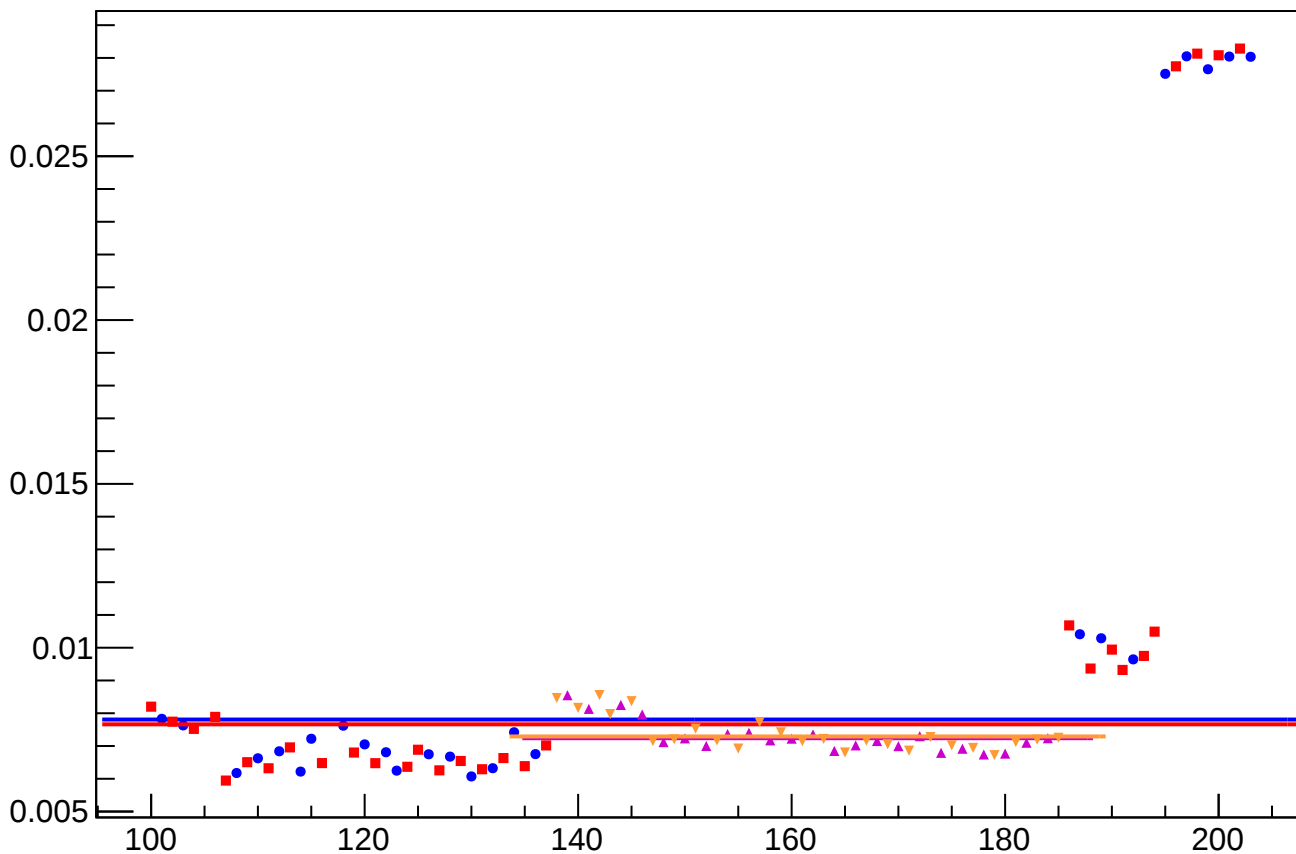
Right: 1.772 $\pm$ 0.000 χ^2 /NDF: 195712805062.5/53

In: 2.305 $\pm$ 0.000 χ^2 /NDF: 203962759816.6/47

Out: 2.226 $\pm$ 0.000 χ^2 /NDF: 216799428364.3/53

All: 2.264 $\pm$ 0.000 χ^2 /NDF: 422276463814.3

yield_bpm0l06X_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 4612039.2/24

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

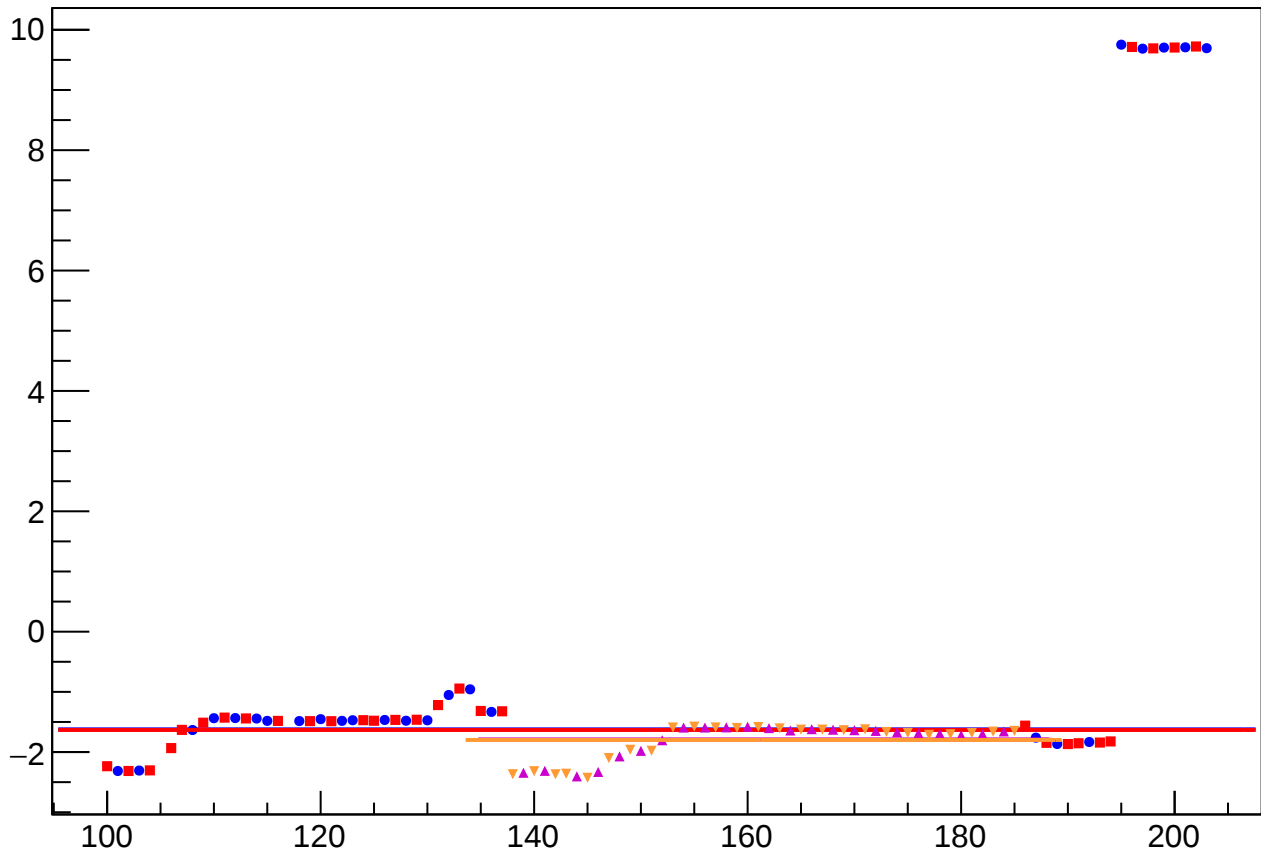
Right: 0.008+/-0.000 χ^2/NDF : 8437233.1/53

In: 0.007+/-0.000 χ^2/NDF :4805339.9/47

Out: 0.007+/-0.000 χ^2/NDF :3995076.1/53

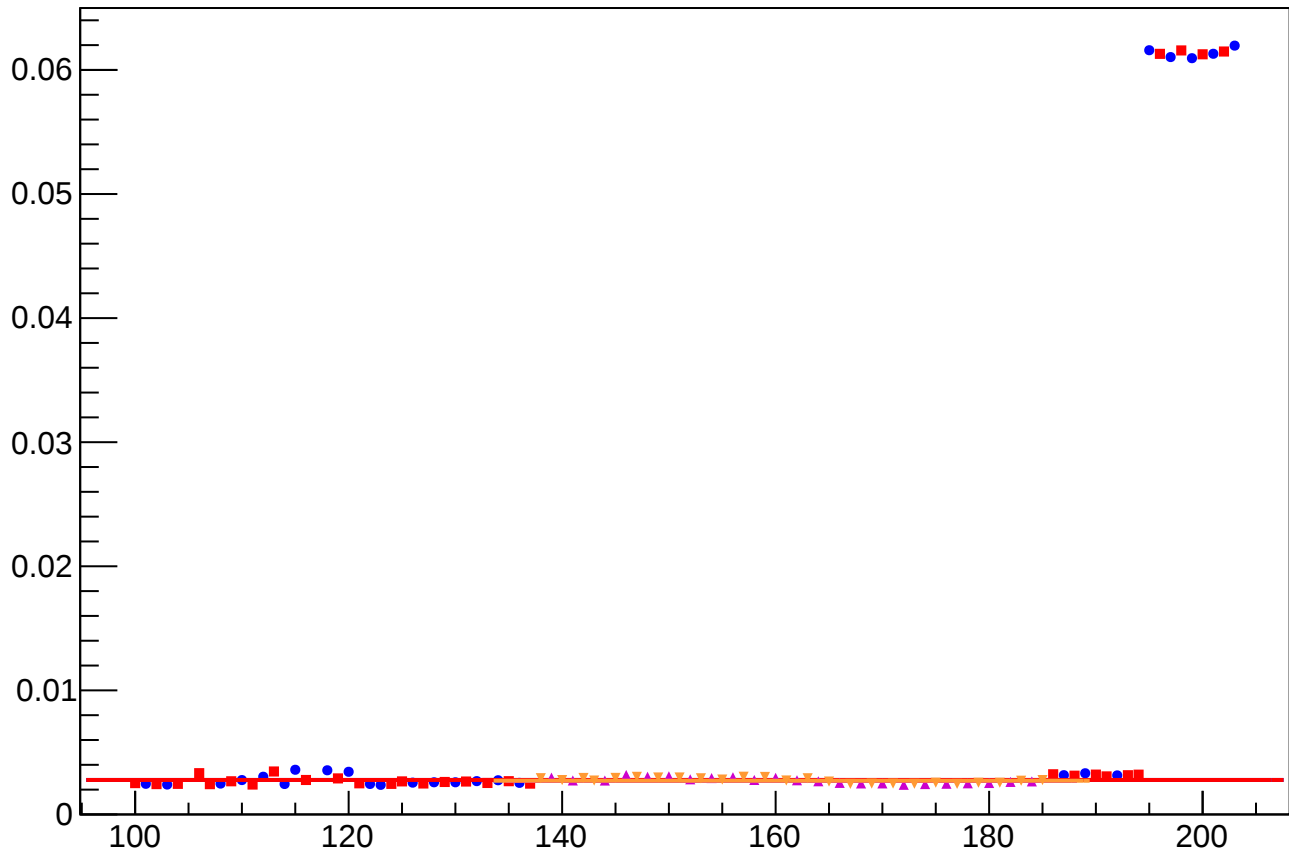
All: 0.007+/-0.000 χ^2/NDF : 8800416.0/101

yield_bpm0l06Y_mean vs Slug, Sign Corrected



Right In: -1.623+/-0.000	χ^2/NDF : 283336654743.5/24	Left: -1.795+/-0.000	χ^2/NDF : 345099435201.4/47
Left Out: -1.799+/-0.000	χ^2/NDF : 185362087438.8/24	Right: -1.628+/-0.000	χ^2/NDF : 542558832863.5/53
Right Out: -1.632+/-0.000	χ^2/NDF : 259175631474.1/28	In: -1.738+/-0.000	χ^2/NDF : 462913017570.9/47
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 : 930672115324.5

yield_bpm0l06Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 7512679.0/24

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

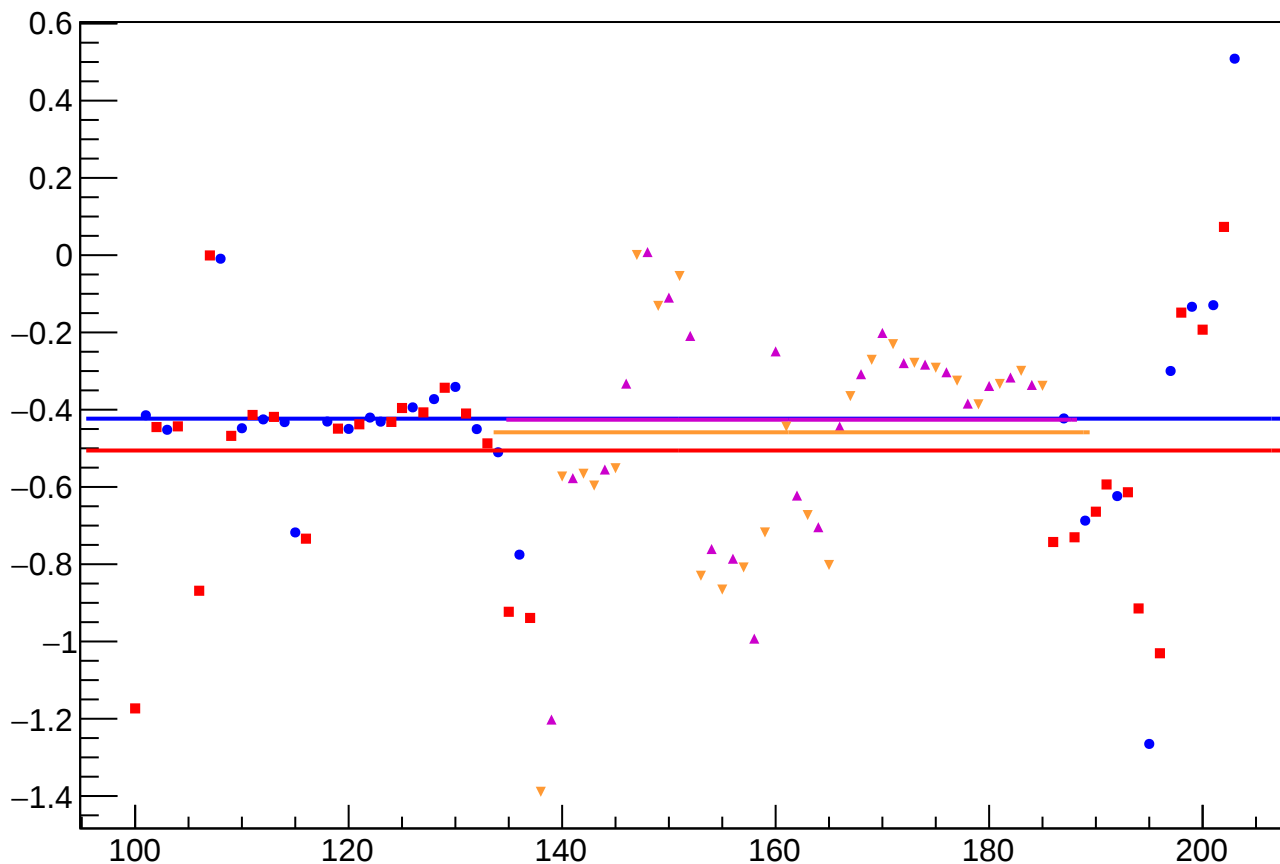
Right: 0.003+/-0.000 χ^2/NDF : 13136349.1/53

In: 0.003+/-0.000 χ^2/NDF :7741832.9/47

Out: 0.003+/-0.000 χ^2/NDF :5829666.3/53

All: 0.003+/-0.000 χ^2/NDF : 13572205.7/101

yield_bpm0l07X_mean vs Slug, Sign Corrected



Right In: -0.423 ± 0.000 $\chi^2/\text{NDF}: 6156565841.7/24$

Left Out: -0.459 ± 0.000 $\chi^2/\text{NDF}: 9916462814.9/24$

Right Out: -0.506 ± 0.000 $\chi^2/\text{NDF}: 5374077507.1/28$

Left In: -0.426 ± 0.000 $\chi^2/\text{NDF}: 8424222576.0/22$

Left: -0.443 ± 0.000 $\chi^2/\text{NDF}: 18401926676.9/47$

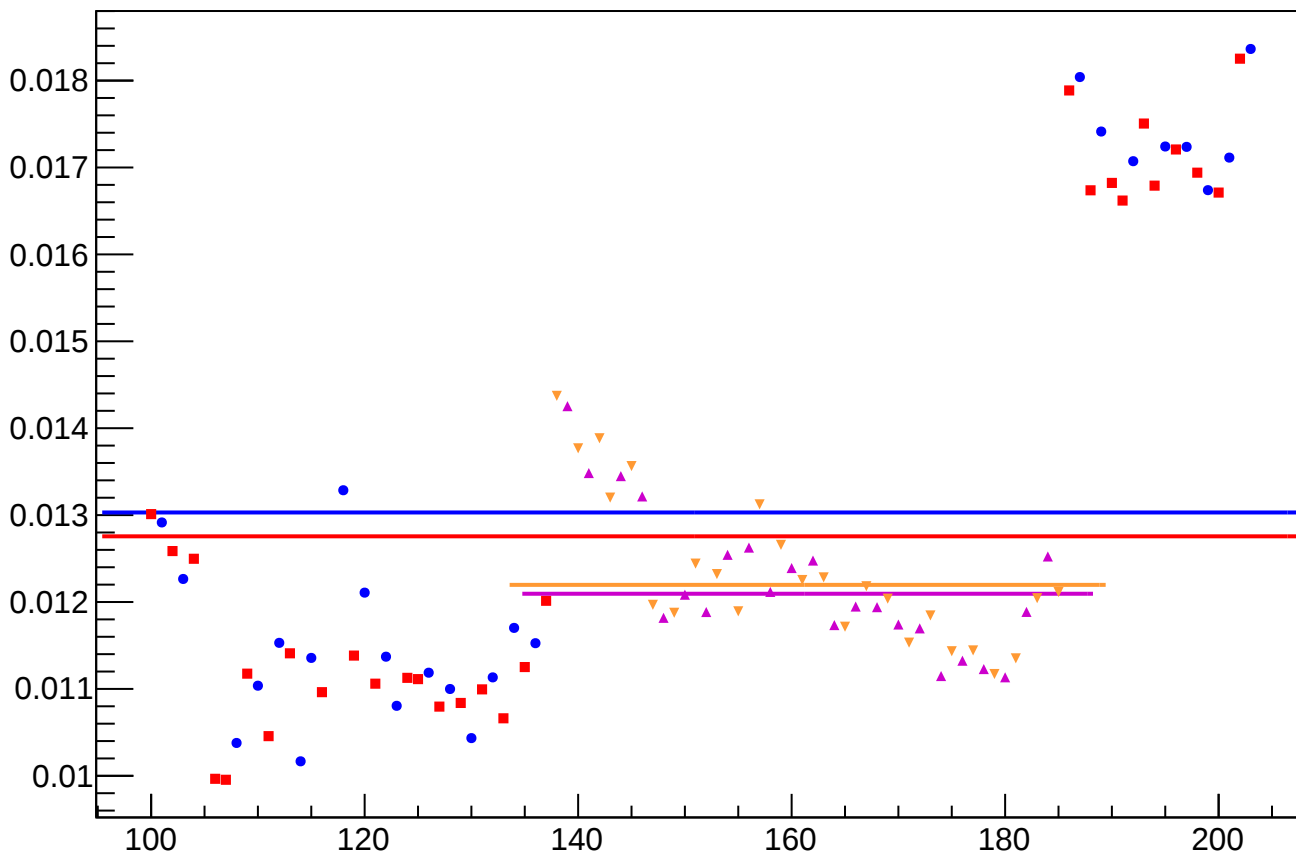
Right: -0.467 ± 0.000 $\chi^2/\text{NDF}: 11775494774.5/53$

In: -0.425 ± 0.000 $\chi^2/\text{NDF}: 14581109969.9/47$

Out: -0.477 ± 0.000 $\chi^2/\text{NDF}: 15394614097.9/53$

All: -0.452 ± 0.000 $\chi^2/\text{NDF}: 30232321204.2/100$

yield_bpm0l07X_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 971280.5/24

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

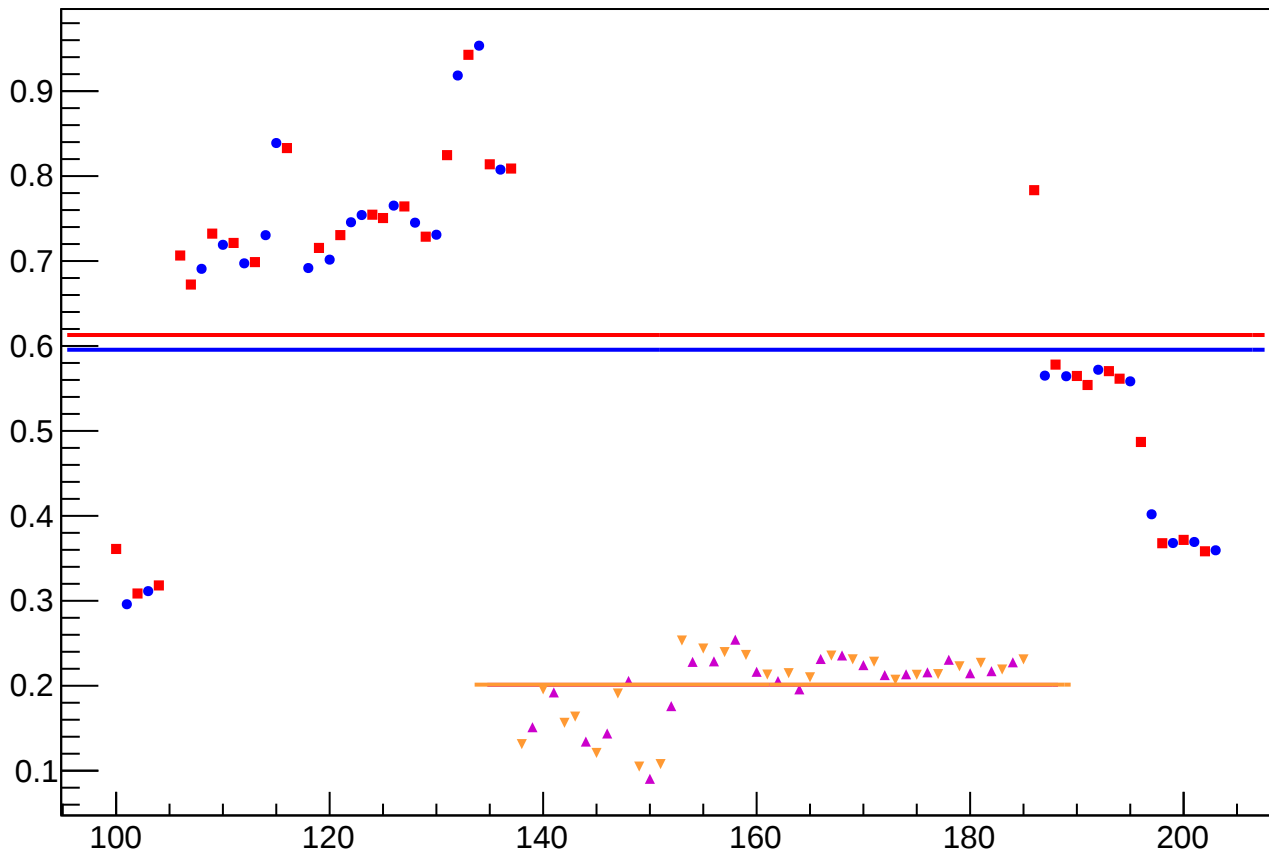
Right: 0.013+/-0.000 χ^2/NDF : 2151156.4/53

In: 0.012+/-0.000 χ^2/NDF :1172437.1/47

Out: 0.012+/-0.000 χ^2/NDF :1345526.5/53

All: 0.012+/-0.000 χ^2/NDF : 2518074.8/101

yield_bpm0l07Y_mean vs Slug, Sign Corrected



Right In: 0.596 $\pm$ 0.000 χ^2/NDF : 62236698823.6/24

Left Out: 0.201 $\pm$ 0.000 χ^2/NDF : 7090760823.7/24

Right Out: 0.613 $\pm$ 0.000 χ^2/NDF : 58769367089.4/28

Left In: 0.201 $\pm$ 0.000 χ^2/NDF : 5671770181.2/22

Left: 0.201 $\pm$ 0.000 χ^2/NDF : 12762673178.0/47

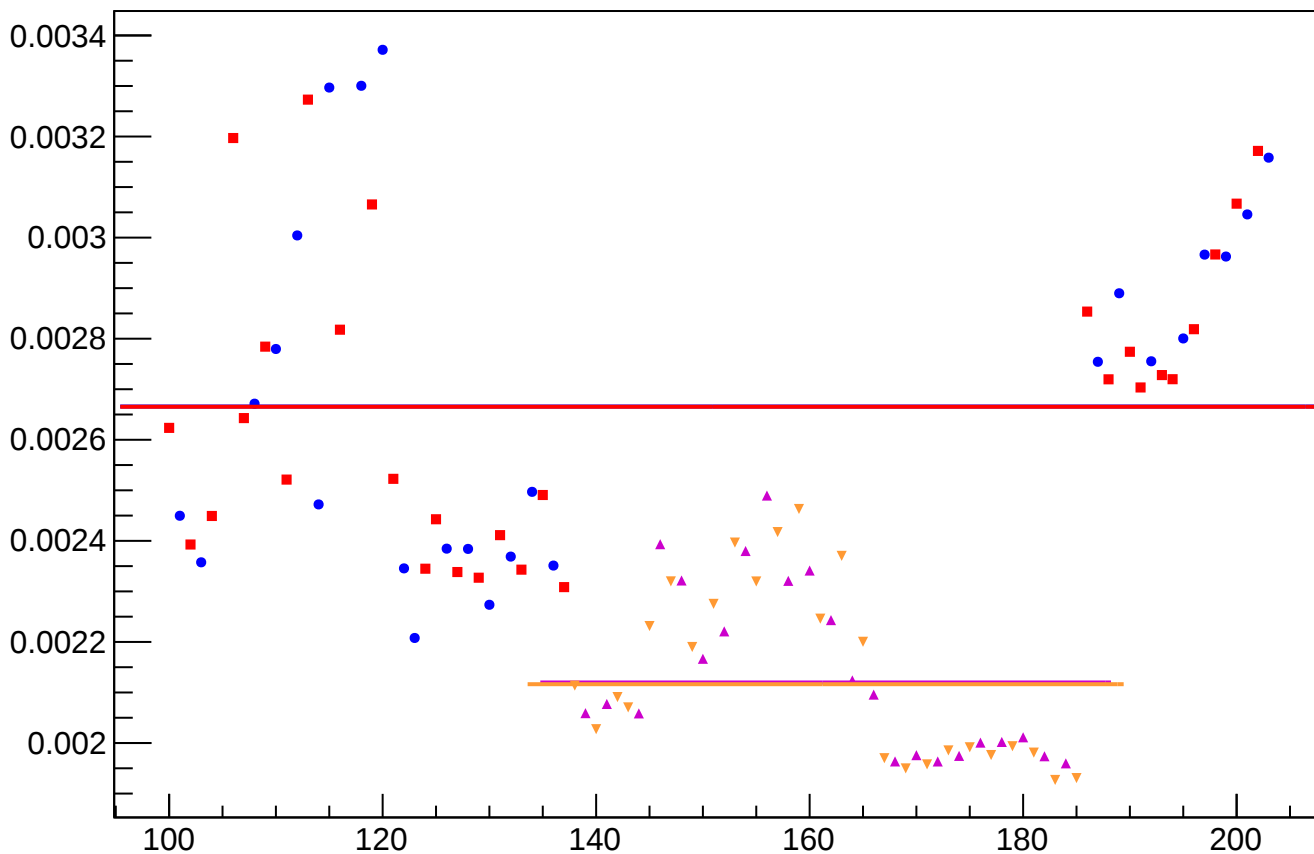
Right: 0.605 $\pm$ 0.000 χ^2/NDF : 121265495246.3/53

In: 0.320 $\pm$ 0.000 χ^2/NDF : 246428351472.6/47

Out: 0.329 $\pm$ 0.000 χ^2/NDF : 277934508937.7/53

All: 0.324 $\pm$ 0.000 χ^2/NDF : 524581148761.6

yield_bpm0l07Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 330289.2/24

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

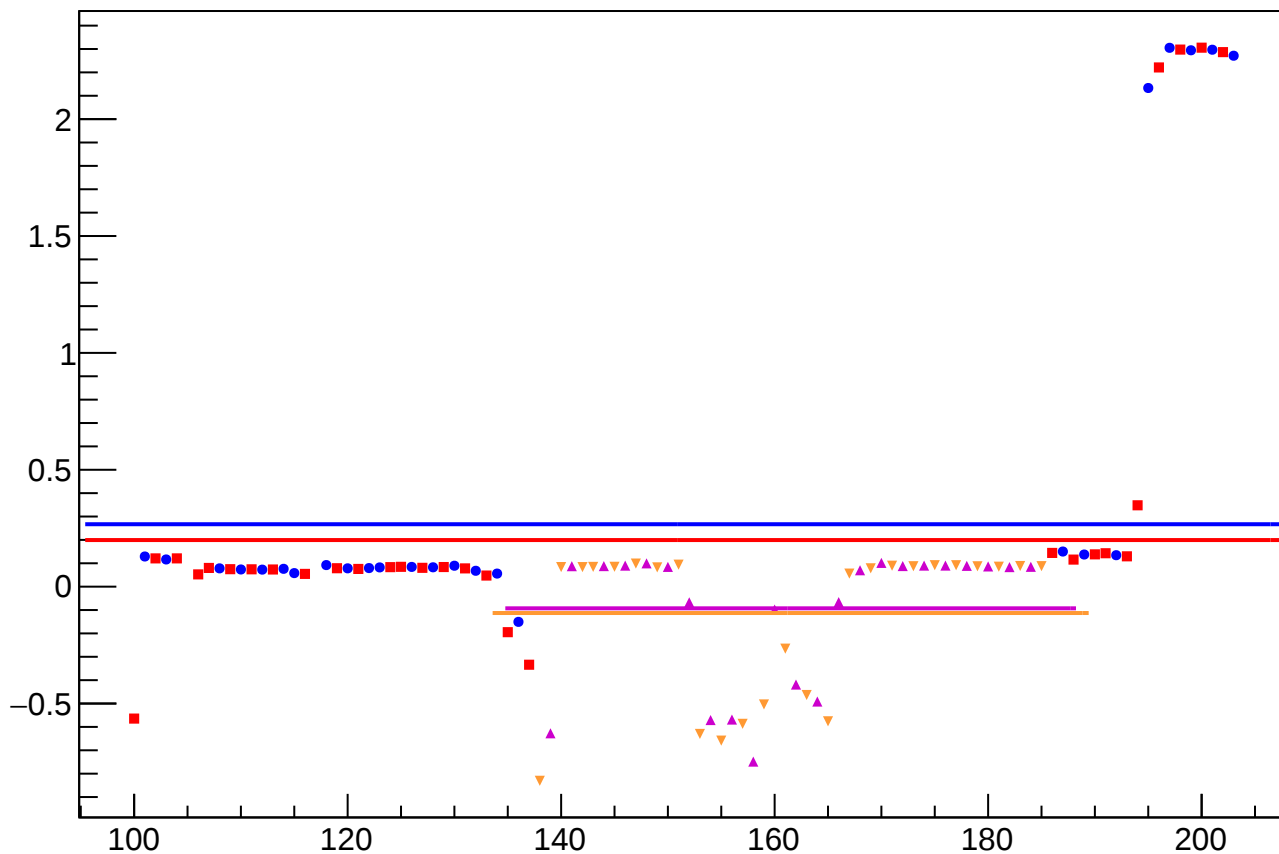
Right: 0.003+/-0.000 χ^2/NDF : 578712.2/53

In: 0.002+/-0.000 χ^2/NDF :1203526.7/47

Out: 0.002+/-0.000 χ^2/NDF :1227334.6/53

All: 0.002+/-0.000 χ^2/NDF : 2430883.3/101

yield_bpm0l08X_mean vs Slug, Sign Corrected



Right In: 0.267+/-0.000

χ^2/NDF : 33657793247.1/24

Left: -0.103+/-0.000

χ^2/NDF : 24747894543.0/47

Left Out: -0.113+/-0.000

χ^2/NDF : 13667354077.1/24

Right: 0.230+/-0.000

χ^2/NDF : 61735750407.0/53

Right Out: 0.199+/-0.000

χ^2/NDF : 27876418428.4/28

In: 0.040+/-0.000

χ^2/NDF : 51319786159.1/47

Out: 0.012+/-0.000

χ^2/NDF : 47180688745.2/53

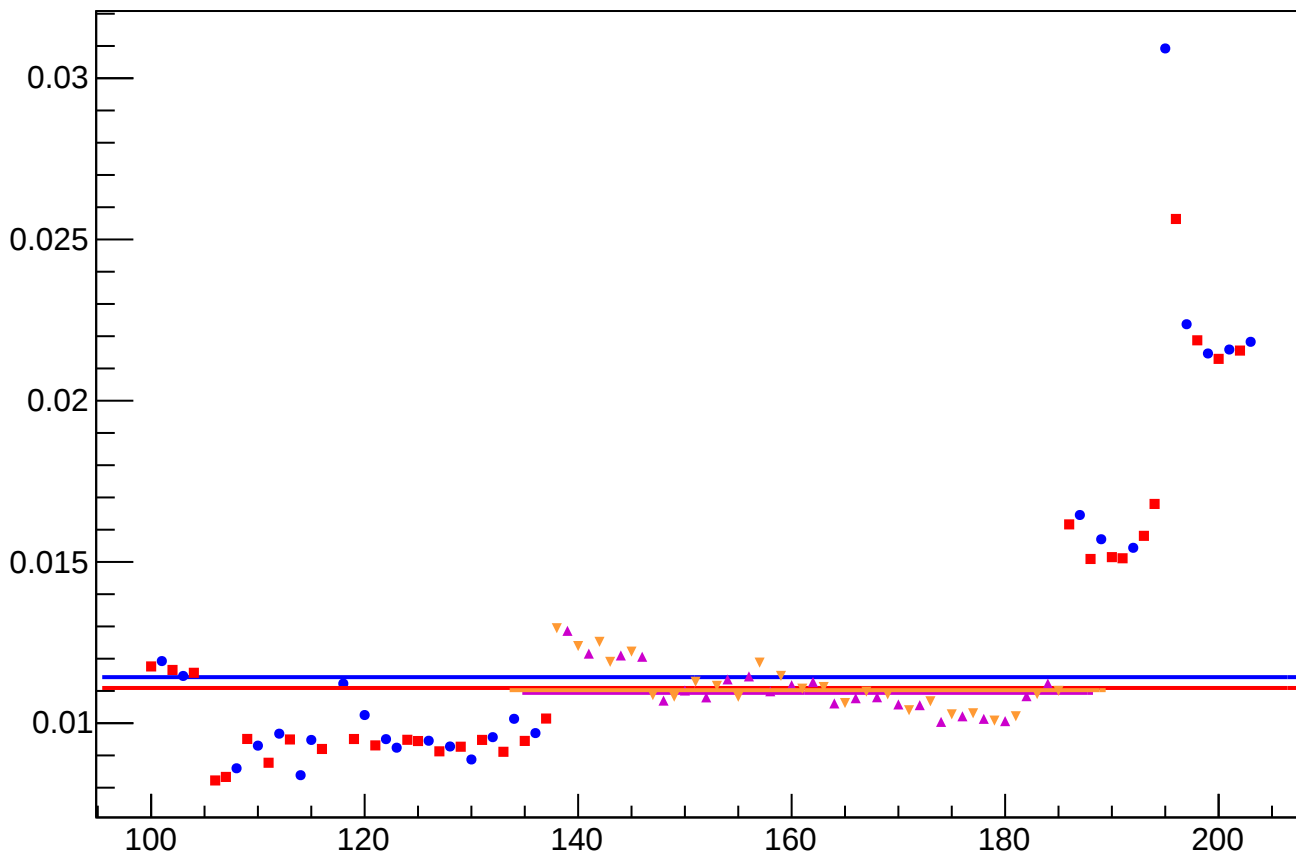
Left In: -0.093+/-0.000

χ^2/NDF : 11051944893.7/22

All: 0.025+/-0.000

χ^2/NDF : 98589639561.2/100

yield_bpm0l08X_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 2785877.1/24

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

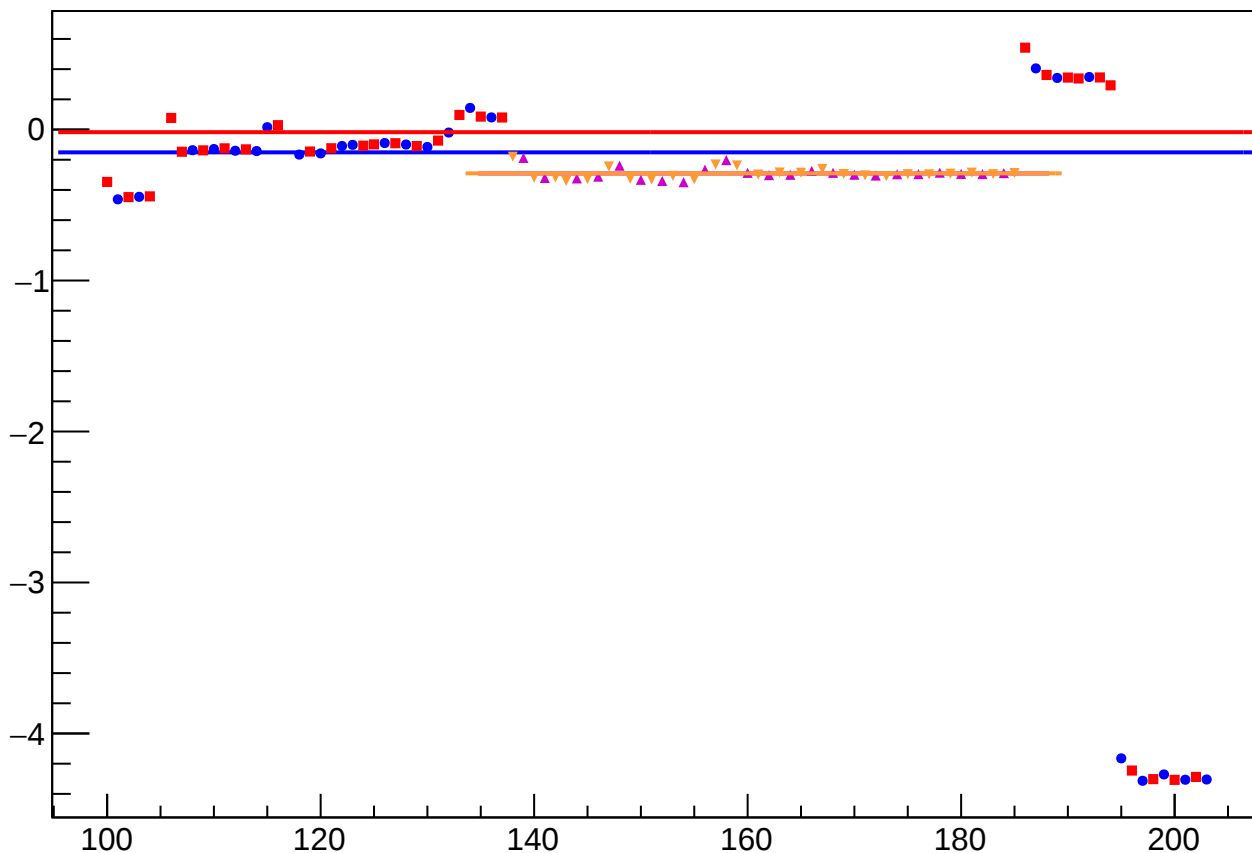
Right: 0.011+/-0.000 χ^2/NDF : 5421259.0/53

In: 0.011+/-0.000 χ^2/NDF :2939027.0/47

Out: 0.011+/-0.000 χ^2/NDF :2767510.5/53

All: 0.011+/-0.000 χ^2/NDF : 5707626.8/101

yield_bpm0l08Y_mean vs Slug, Sign Corrected



Right In: -0.151+/-0.000

χ^2/NDF : 223849752390.3/24

Left: -0.291+/-0.000

χ^2/NDF : 6003615293.4/47

Left Out: -0.290+/-0.000

χ^2/NDF : 2877519093.0/24

Right: -0.077+/-0.000

χ^2/NDF : 430408900726.2/53

Right Out: -0.017+/-0.000

χ^2/NDF : 202374777928.2/28

In: -0.269+/-0.000

χ^2/NDF : 233904278034.5/47

Out: -0.241+/-0.000

χ^2/NDF : 237251222364.9/53

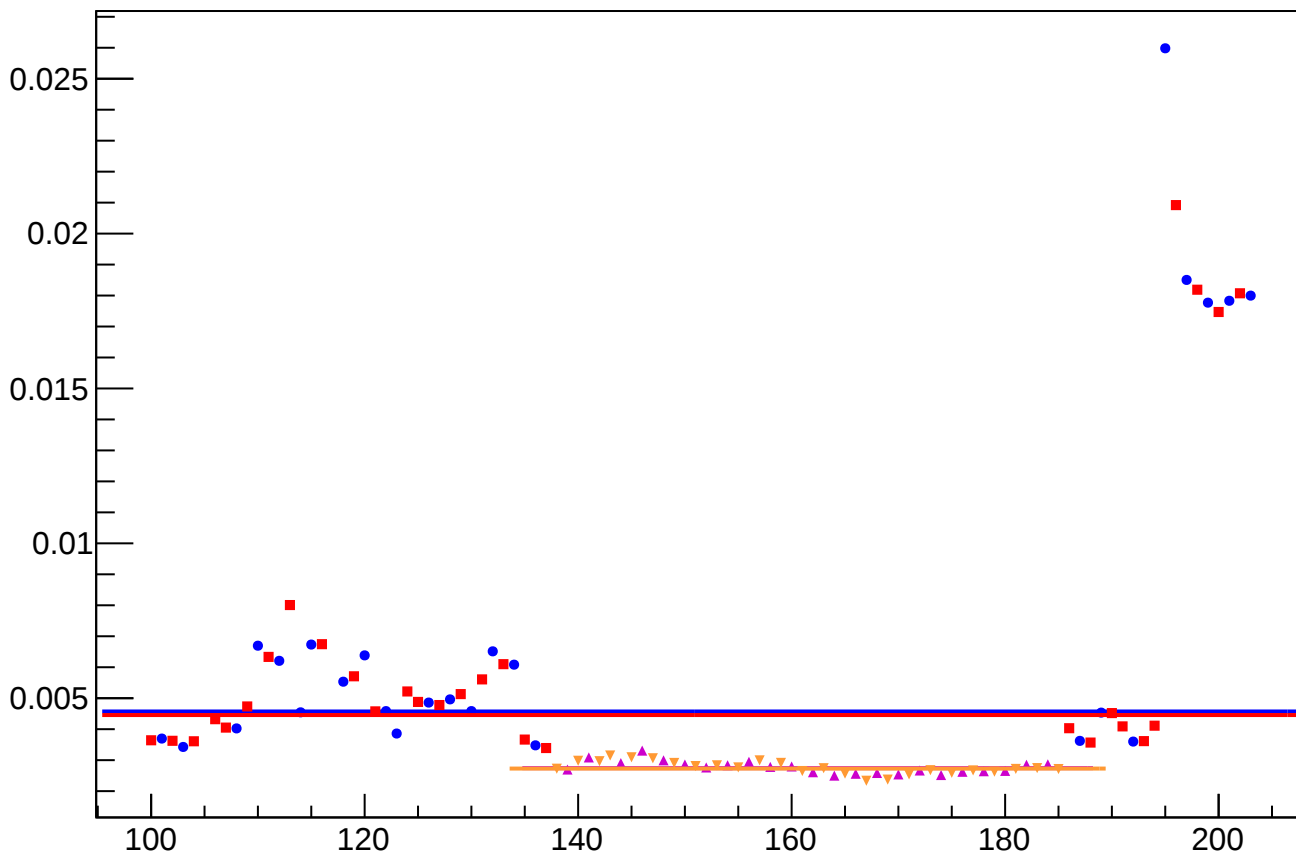
Left In: -0.291+/-0.000

χ^2/NDF : 3125402243.3/22

All: -0.254+/-0.000

χ^2/NDF : 472227961462.9/100

yield_bpm0l08Y_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 5428696.8/24

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

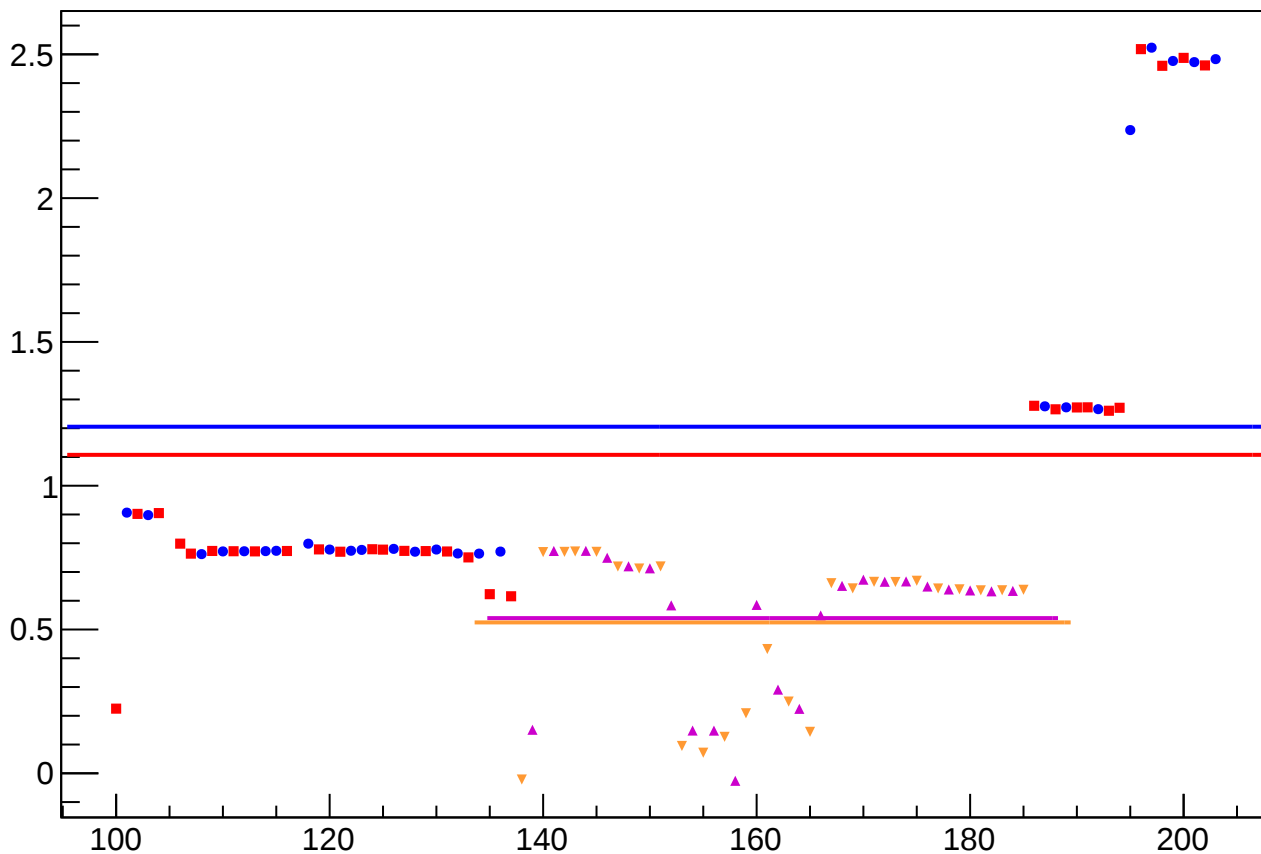
Right: 0.005+/-0.000 χ^2/NDF : 9639450.2/53

In: 0.003+/-0.000 χ^2/NDF :7945635.2/47

Out: 0.003+/-0.000 χ^2/NDF :6977839.1/53

All: 0.003+/-0.000 χ^2/NDF : 14923591.5/101

yield_bpm0l09X_mean vs Slug, Sign Corrected



Right In: 1.205+/-0.000

χ^2/NDF : 37234723279.7/24

Left: 0.532+/-0.000

χ^2/NDF : 17500739852.2/47

Left Out: 0.525+/-0.000

χ^2/NDF : 9623503169.9/24

Right: 1.152+/-0.000

χ^2/NDF : 71150524134.1/53

Right Out: 1.107+/-0.000

χ^2/NDF : 33516202990.1/28

In: 0.770+/-0.000

χ^2/NDF : 67496641483.7/47

Out: 0.742+/-0.000

χ^2/NDF : 62451880165.4/53

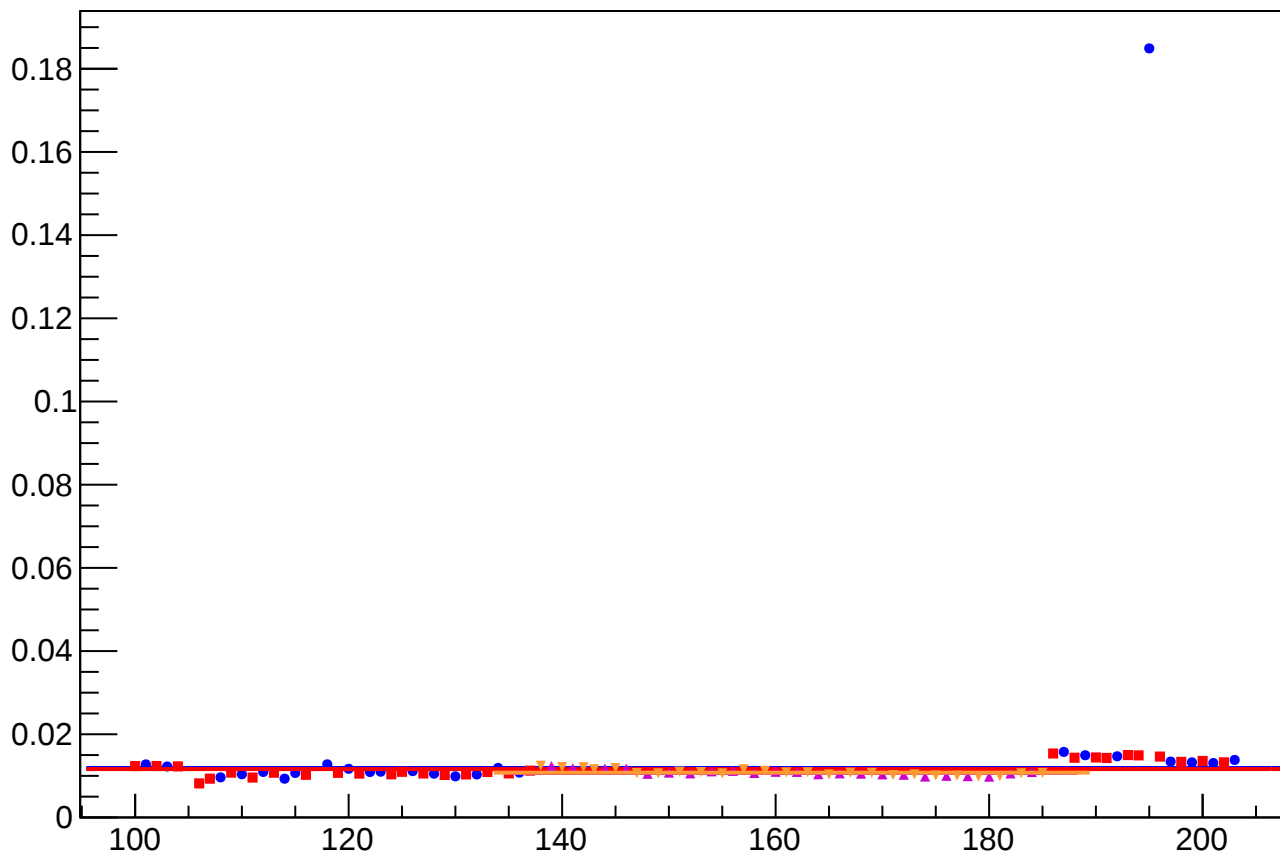
Left In: 0.540+/-0.000

χ^2/NDF : 7860539135.5/22

All: 0.755+/-0.000

χ^2/NDF : 130041439723.4

yield_bpm0l09X_rms vs Slug, Sign Corrected



Right In: 0.012+/-0.000 χ^2/NDF : 1863485.1/24

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

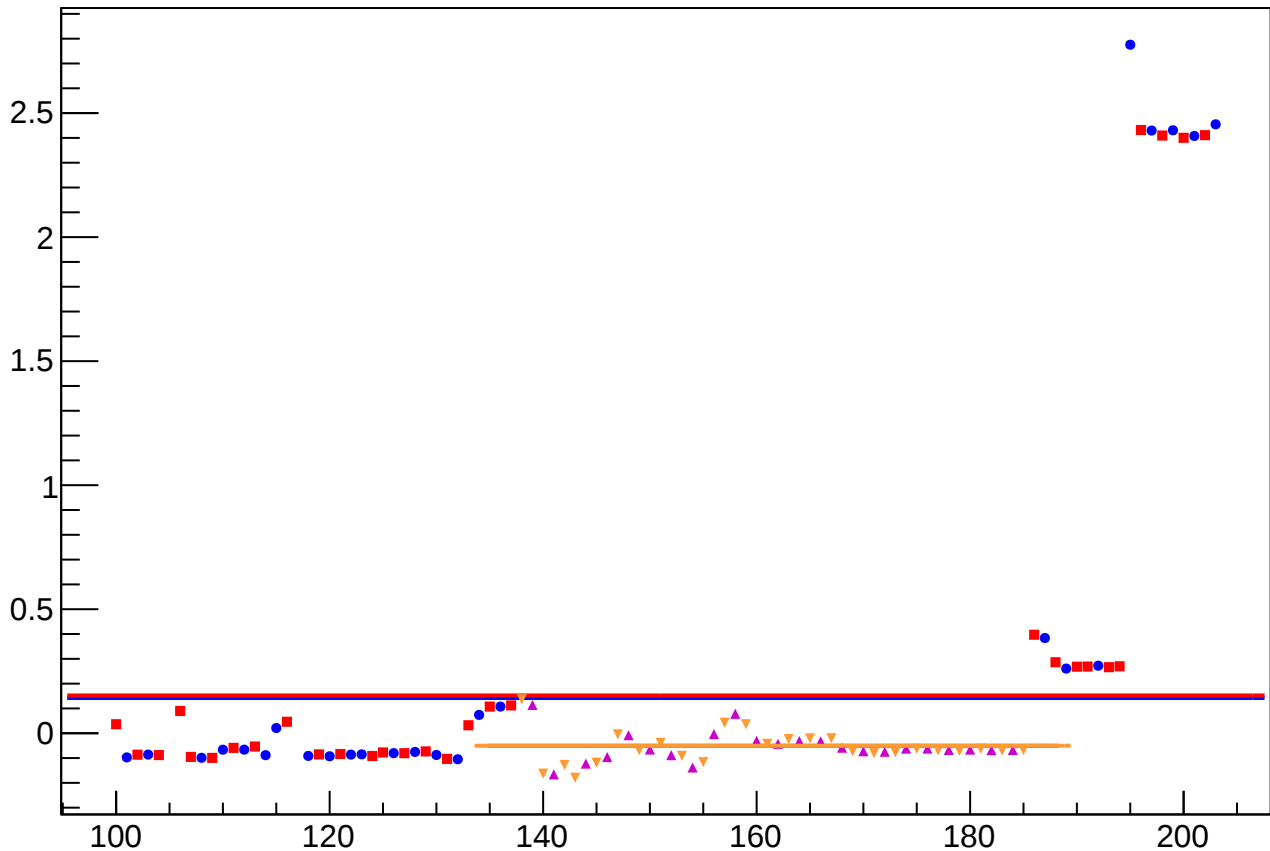
Right: 0.012+/-0.000 χ^2/NDF : 2538975.3/53

In: 0.011+/-0.000 χ^2/NDF :2125714.7/47

Out: 0.011+/-0.000 χ^2/NDF :885993.6/53

All: 0.011+/-0.000 χ^2/NDF : 3011751.2/101

yield_bpm0l09Y_mean vs Slug, Sign Corrected



Right In: 0.142 $\pm$ 0.000 χ^2 /NDF: 109378136567.8/24

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

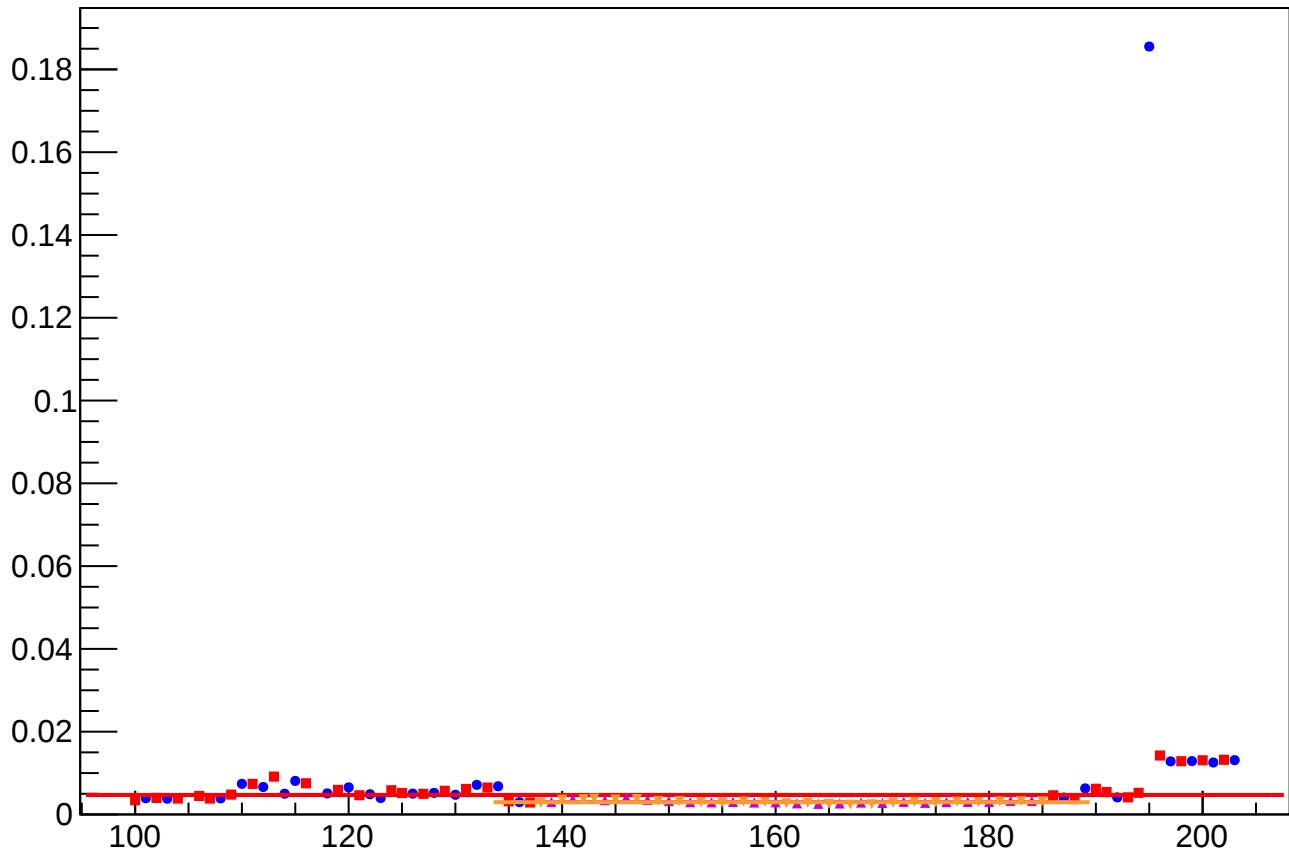
Right: 0.148 $\pm$ 0.000 χ^2 /NDF: 197829686495.5/53

In: -0.016 $\pm$ 0.000 χ^2 /NDF: 127457245381.5/47

Out: -0.012 $\pm$ 0.000 χ^2 /NDF: 110845375856.5/53

All: -0.014 $\pm$ 0.000 χ^2 /NDF: 238320281527.8

yield_bpm0l09Y_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 5147454.9/24

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

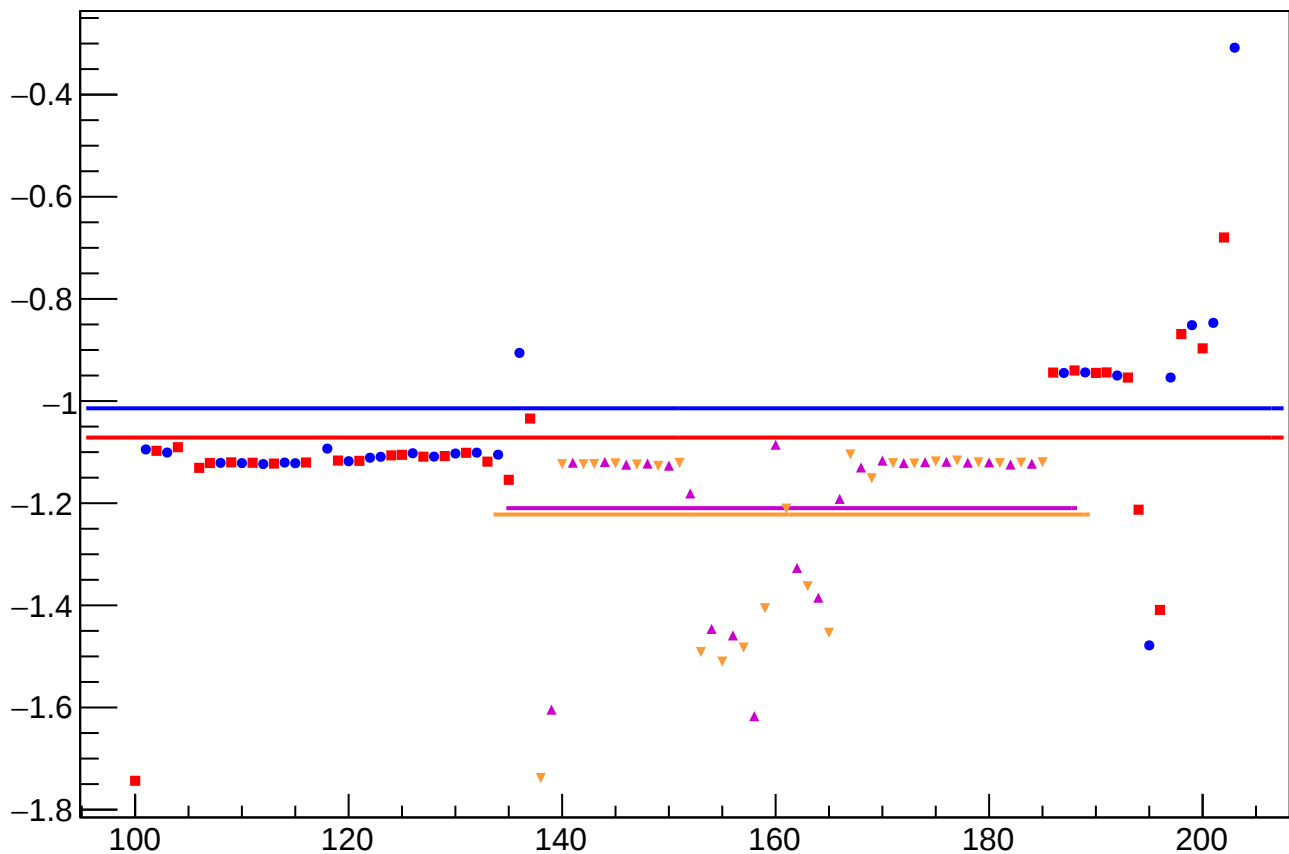
Right: 0.005+/-0.000 χ^2/NDF : 8426920.1/53

In: 0.003+/-0.000 χ^2/NDF :7300931.4/47

Out: 0.003+/-0.000 χ^2/NDF :6034196.3/53

All: 0.003+/-0.000 χ^2/NDF : 13335454.5/101

yield_bpm0l10X_mean vs Slug, Sign Corrected



Right In: -1.014 ± 0.000 $\chi^2/\text{NDF}: 3840233488.0/24$

Left Out: -1.222 ± 0.000 $\chi^2/\text{NDF}: 5279548861.3/24$

Right Out: -1.071 ± 0.000 $\chi^2/\text{NDF}: 2012240149.3/28$

Left In: -1.210 ± 0.000 $\chi^2/\text{NDF}: 4502367902.8/22$

Left: -1.216 ± 0.000 $\chi^2/\text{NDF}: 9796254294.5/47$

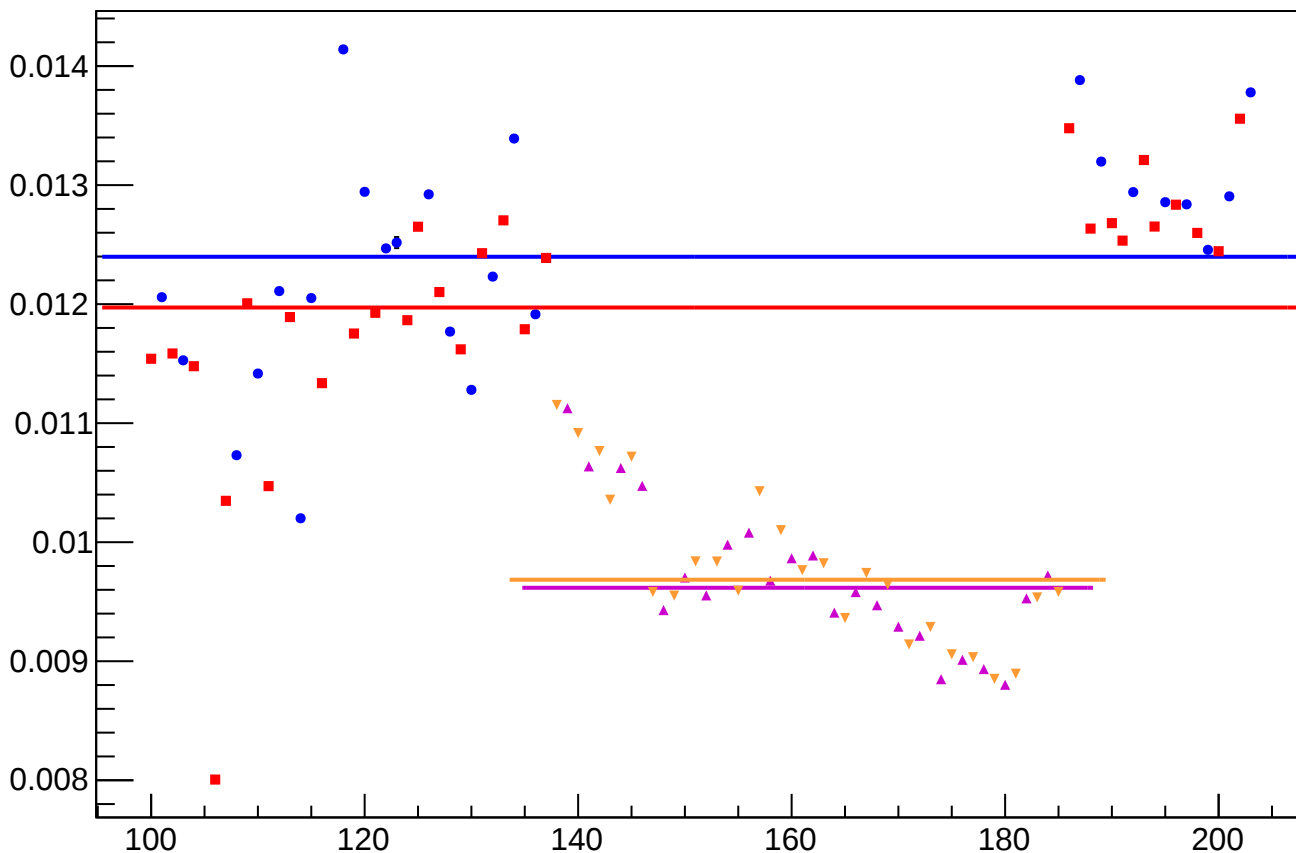
Right: -1.045 ± 0.000 $\chi^2/\text{NDF}: 5989044454.9/53$

In: -1.151 ± 0.000 $\chi^2/\text{NDF}: 10404544643.6/47$

Out: -1.173 ± 0.000 $\chi^2/\text{NDF}: 8688306521.9/53$

All: -1.163 ± 0.000 $\chi^2/\text{NDF}: 19156169543.0/100$

yield_bpm0l10X_rms vs Slug, Sign Corrected



Right In: 0.012+/-0.000 χ^2/NDF : 105641.6/24

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

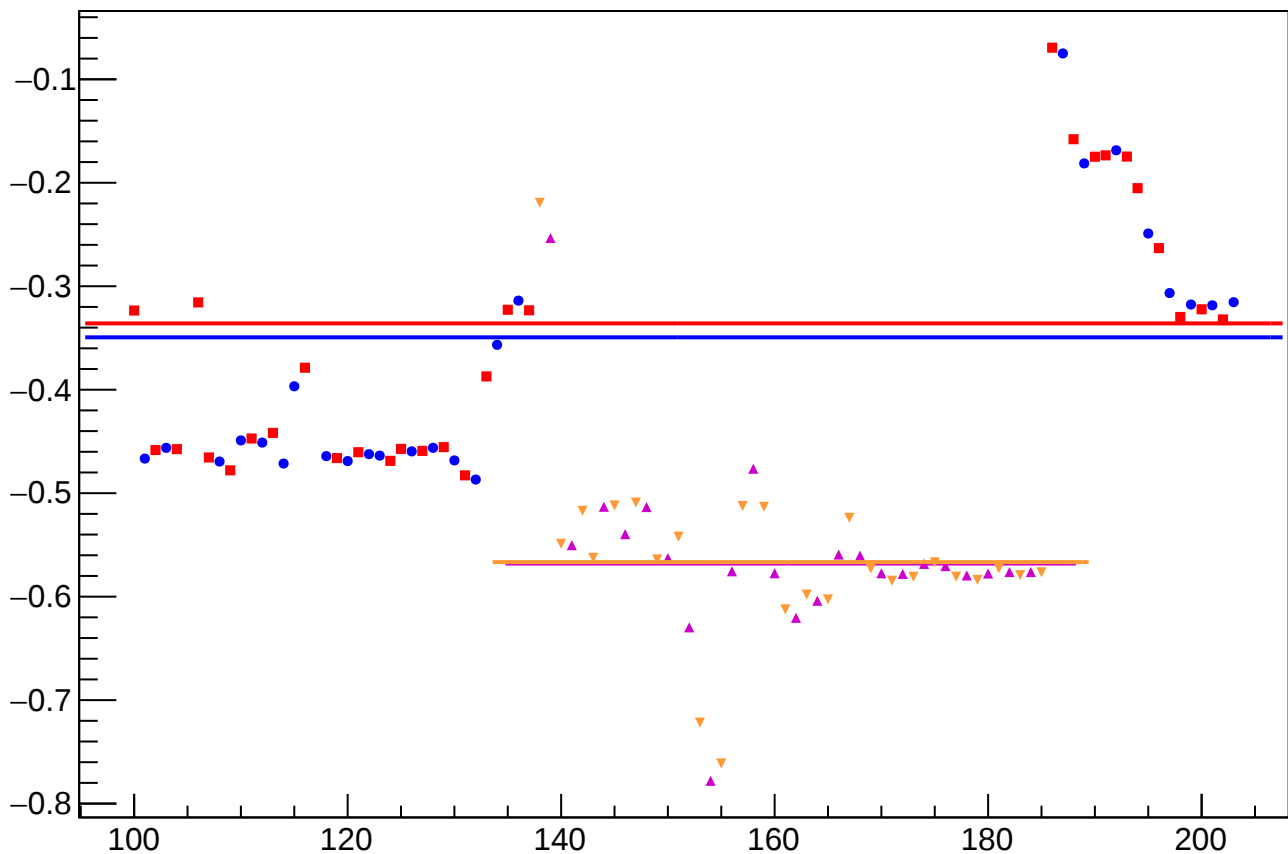
Right: 0.012+/-0.000 χ^2/NDF : 372658.5/53

In: 0.010+/-0.000 χ^2/NDF :1060164.6/47

Out: 0.010+/-0.000 χ^2/NDF :1030248.7/53

All: 0.010+/-0.000 χ^2/NDF : 2090496.8/101

yield_bpm0l10Y_mean vs Slug, Sign Corrected



Right In: -0.349 ± 0.000 $\chi^2/\text{NDF}: 7753570159.3/24$

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 $\chi^2/\text{NDF}: 23829000396.4/47$

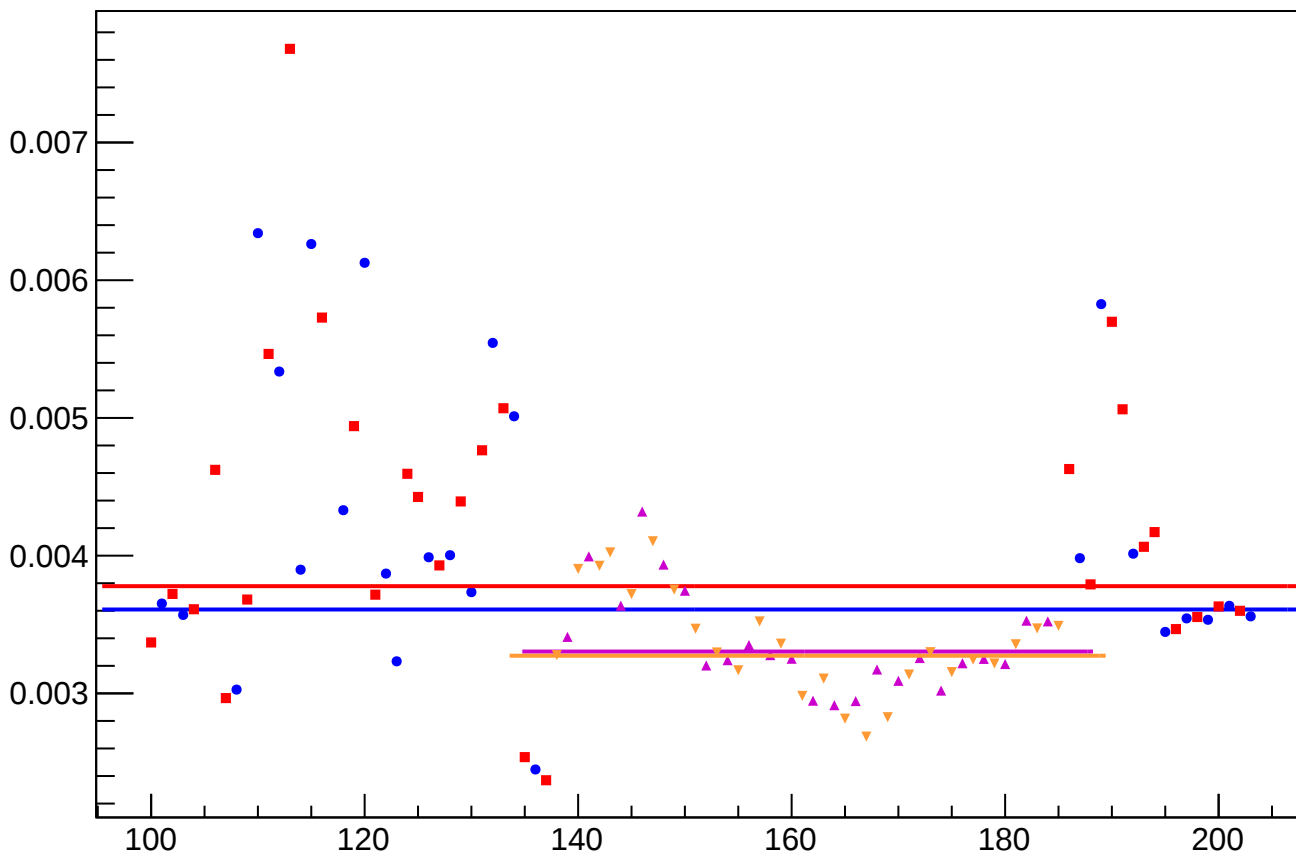
Right: -0.343 ± 0.000 $\chi^2/\text{NDF}: 18162944815.6/53$

In: -0.490 ± 0.000 $\chi^2/\text{NDF}: 43420800351.9/47$

Out: -0.488 ± 0.000 $\chi^2/\text{NDF}: 52785066442.5/53$

All: -0.489 ± 0.000 $\chi^2/\text{NDF}: 96211327955.0/100$

yield_bpm0l10Y_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 993092.0/24

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

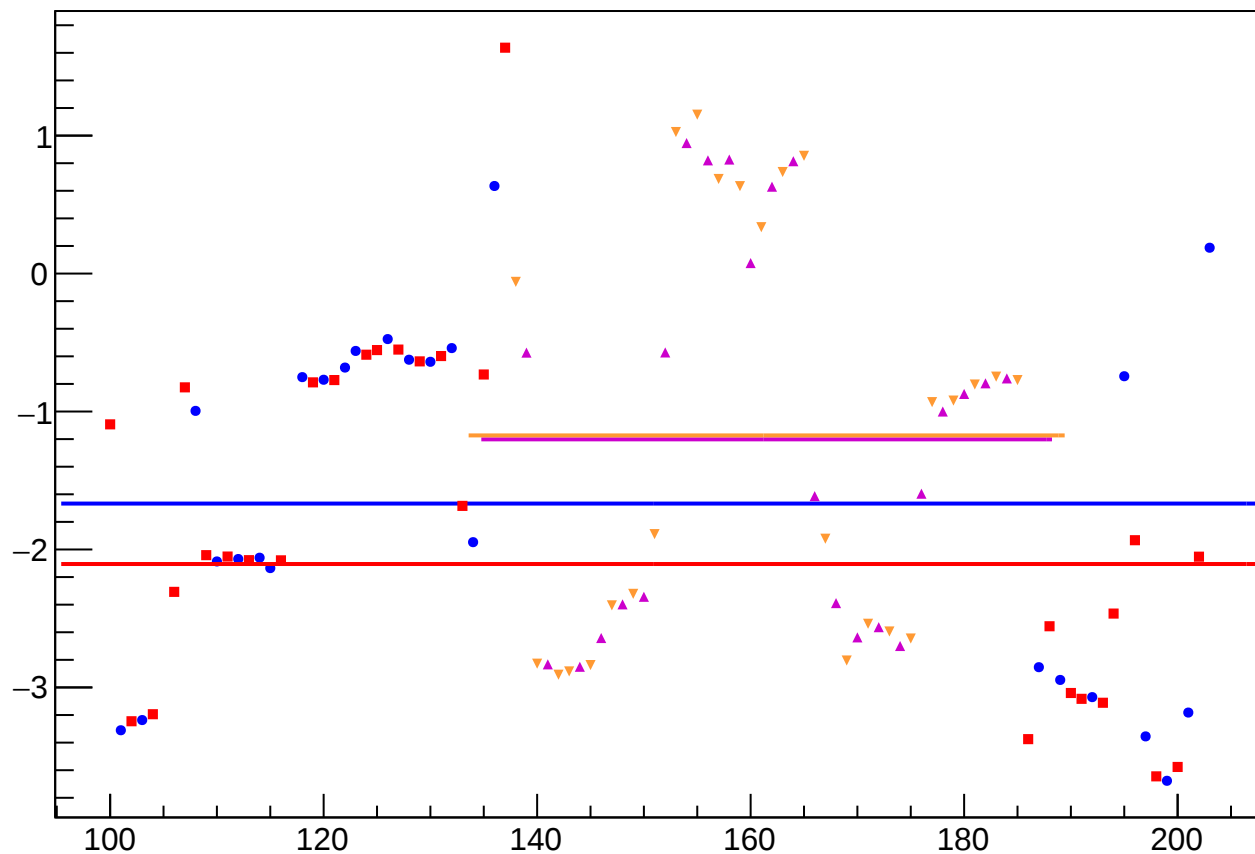
Right: 0.004+/-0.000 χ^2/NDF : 2077077.7/53

In: 0.003+/-0.000 χ^2/NDF : 1377523.7/47

Out: 0.003+/-0.000 χ^2/NDF : 1734023.6/53

All: 0.003+/-0.000 χ^2/NDF : 3114140.8/101

yield_bpm0r03X_mean vs Slug, Sign Corrected



Right In: -1.667+/-0.000 χ^2/NDF : 4465716066.3/24

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

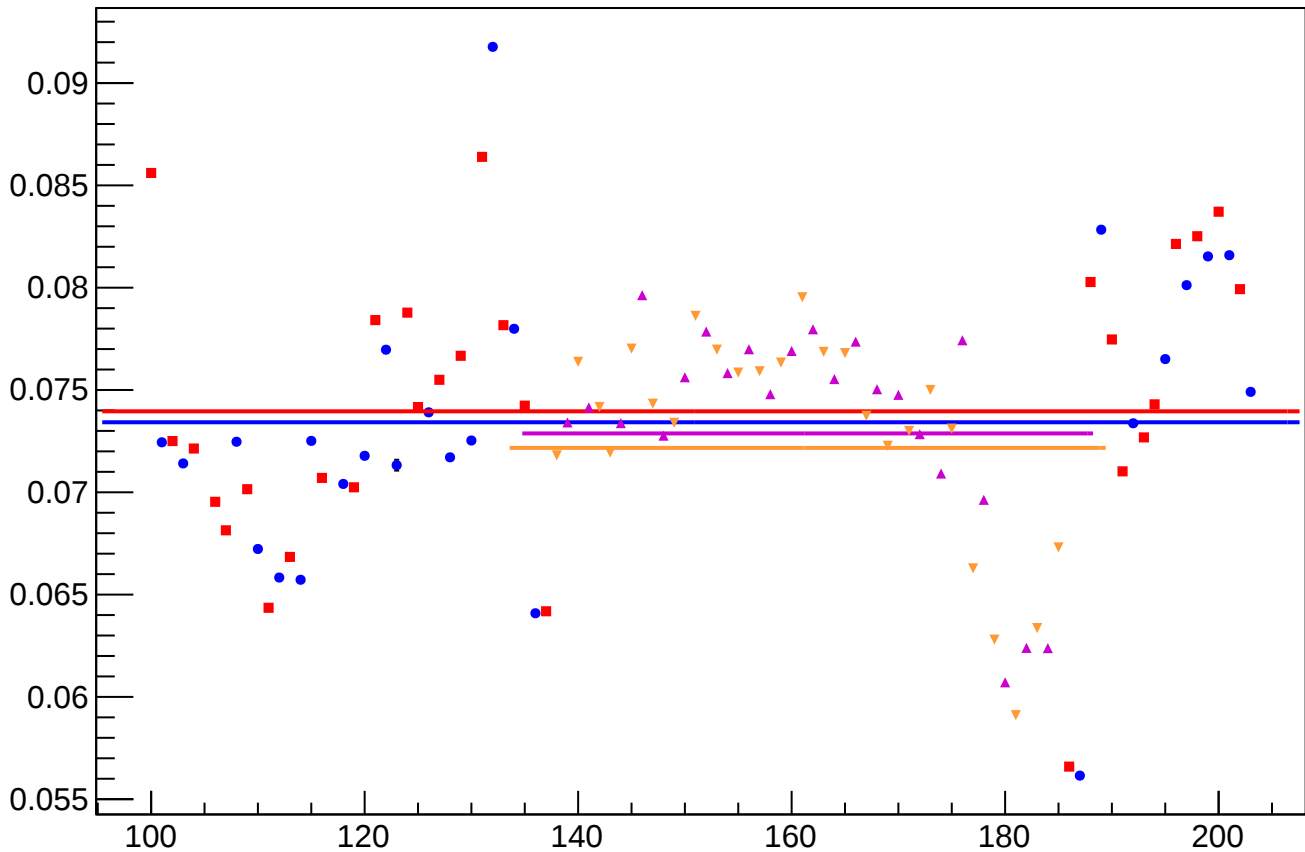
Right: -1.896+/-0.000 χ^2/NDF : 7794365724.9/53

In: -1.393+/-0.000 χ^2/NDF : 10355926653.5/47

Out: -1.556+/-0.000 χ^2/NDF : 11225307732.1/53

All: -1.478+/-0.000 χ^2/NDF : 21656689925.2/100

yield_bpm0r03X_rms vs Slug, Sign Corrected



Right In: 0.073 $\pm$ 0.000 χ^2/NDF : 176511.2/24

Left Out: 0.072 $\pm$ 0.000 χ^2/NDF : 222263.8/24

Right Out: 0.074 $\pm$ 0.000 χ^2/NDF : 221762.0/28

Left In: 0.073 $\pm$ 0.000 χ^2/NDF : 183503.0/22

Left: 0.073 $\pm$ 0.000 χ^2/NDF : 407423.5/47

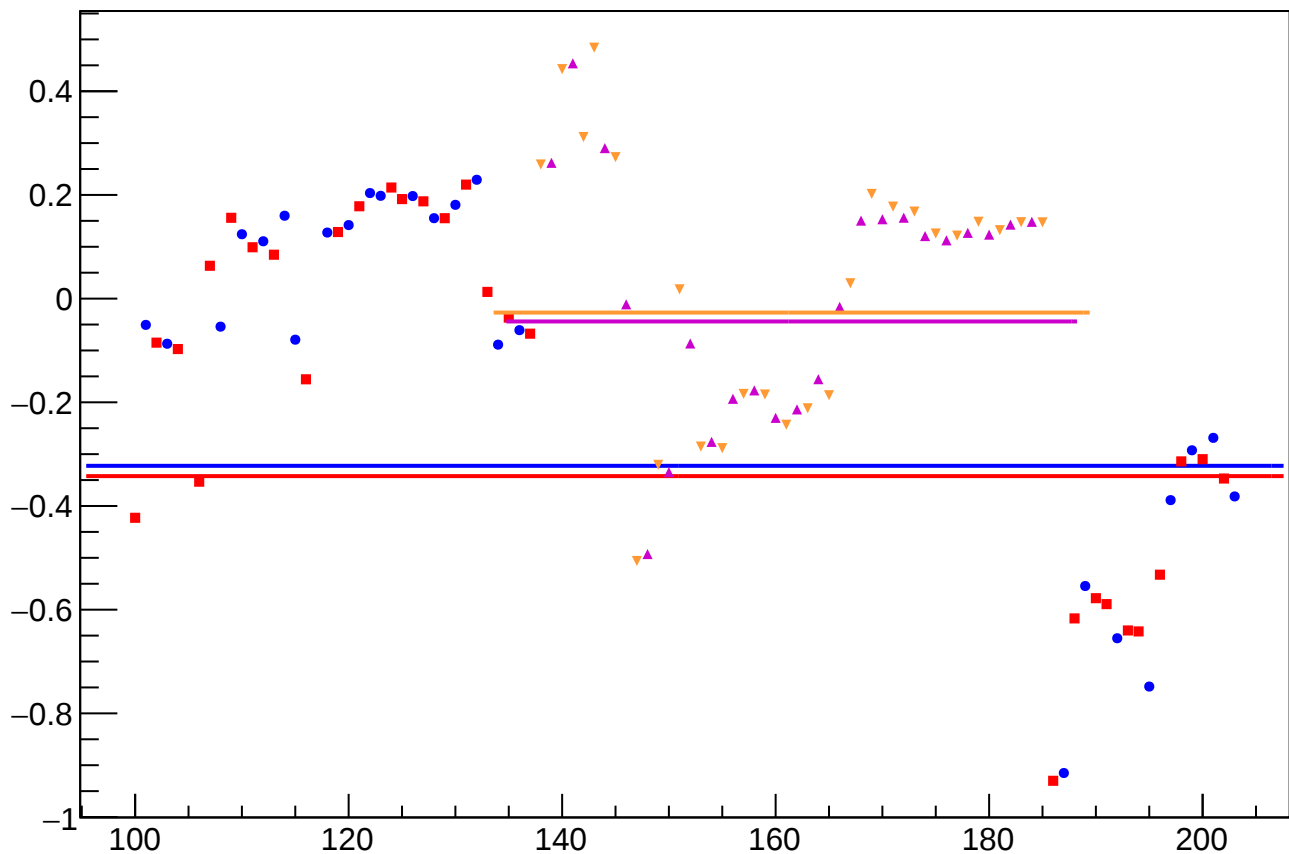
Right: 0.074 $\pm$ 0.000 χ^2/NDF : 398936.3/53

In: 0.073 $\pm$ 0.000 χ^2/NDF : 360792.2/47

Out: 0.073 $\pm$ 0.000 χ^2/NDF : 453109.8/53

All: 0.073 $\pm$ 0.000 χ^2/NDF : 814117.0/101

yield_bpm0r03Y_mean vs Slug, Sign Corrected



Right In: -0.323 ± 0.000 $\chi^2/\text{NDF}: 12128449421.6/24$

Left Out: -0.027 ± 0.000 $\chi^2/\text{NDF}: 20376761328.6/24$

Right Out: -0.342 ± 0.000 $\chi^2/\text{NDF}: 10940499890.9/28$

Left In: -0.044 ± 0.000 $\chi^2/\text{NDF}: 15718556282.1/22$

Left: -0.035 ± 0.000 $\chi^2/\text{NDF}: 36148383394.4/47$

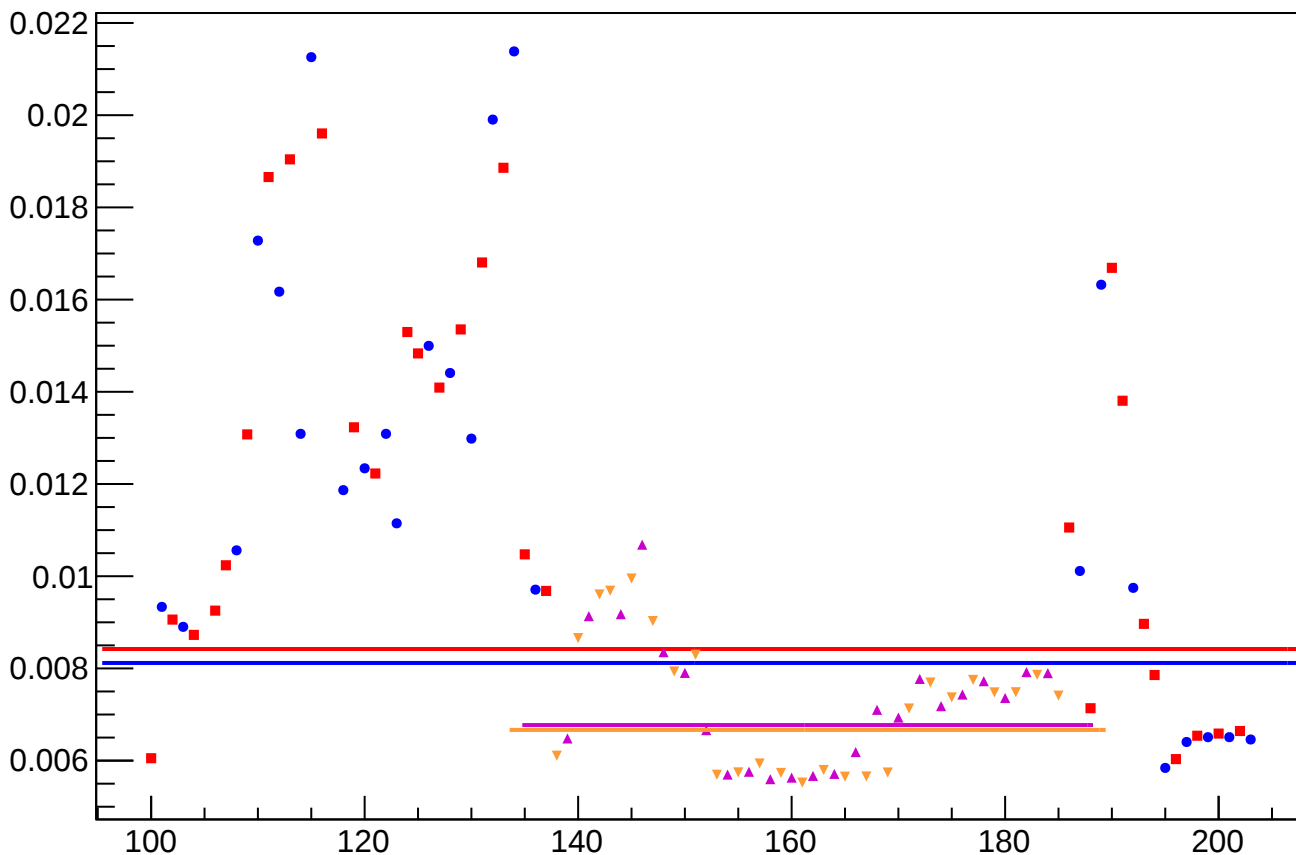
Right: -0.332 ± 0.000 $\chi^2/\text{NDF}: 23099345830.0/53$

In: -0.130 ± 0.000 $\chi^2/\text{NDF}: 36104011674.7/47$

Out: -0.118 ± 0.000 $\chi^2/\text{NDF}: 42215630338.8/53$

All: -0.124 ± 0.000 $\chi^2/\text{NDF}: 78354750509.7/100$

yield_bpm0r03Y_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 2577339.5/24

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

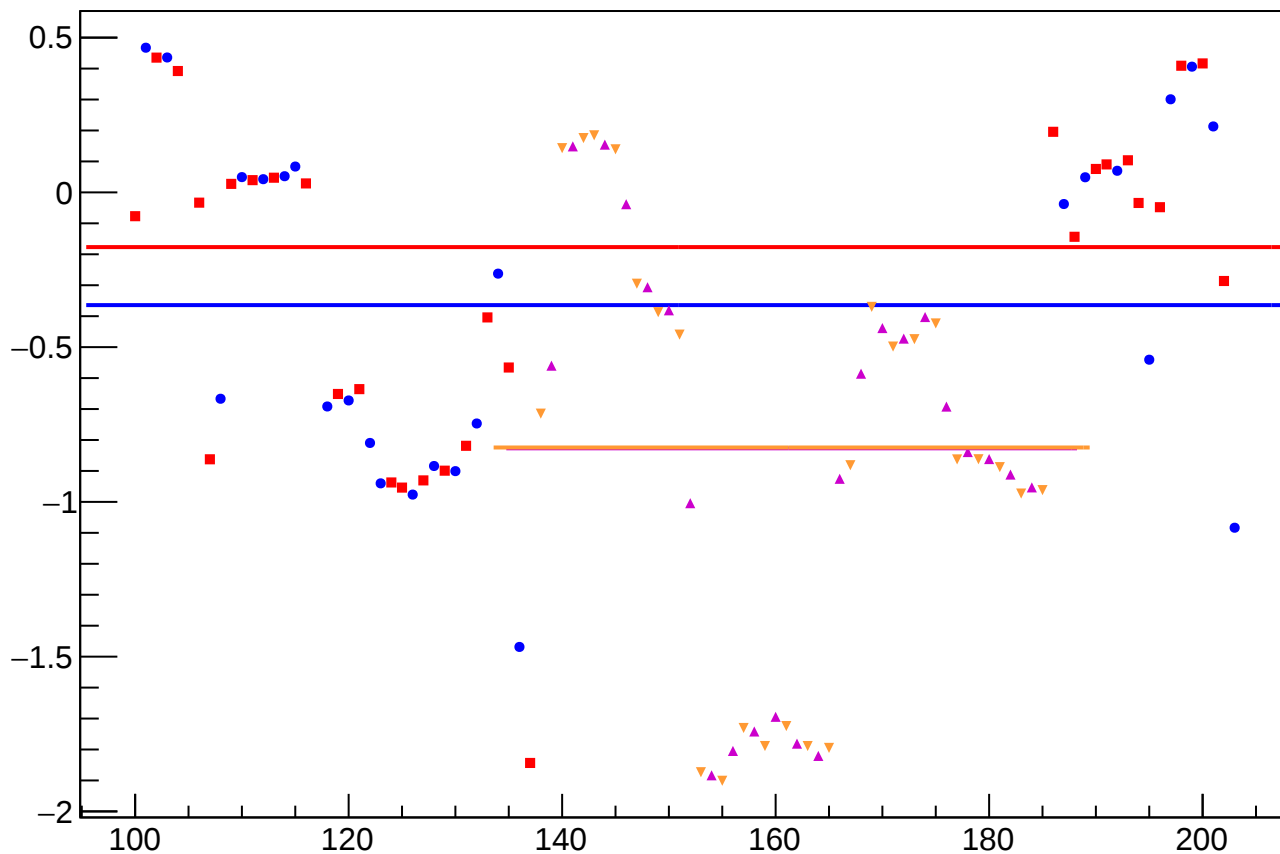
Right: 0.008+/-0.000 χ^2/NDF : 5345677.4/53

In: 0.007+/-0.000 χ^2/NDF : 3897607.9/47

Out: 0.007+/-0.000 χ^2/NDF : 4572448.9/53

All: 0.007+/-0.000 χ^2/NDF : 8470138.8/101

yield_bpm0r05X_mean vs Slug, Sign Corrected



Right In: -0.364 $\pm$ 0.000 χ^2 /NDF: 544470965.1/24

Left Out: -0.824 $\pm$ 0.000 χ^2 /NDF: 1103610806.5/24

Right Out: -0.177 $\pm$ 0.000 χ^2 /NDF: 382192583.4/28

Left In: -0.827 $\pm$ 0.000 χ^2 /NDF: 921651117.3/22

Left: -0.826 $\pm$ 0.000 χ^2 /NDF: 2025270716.0/47

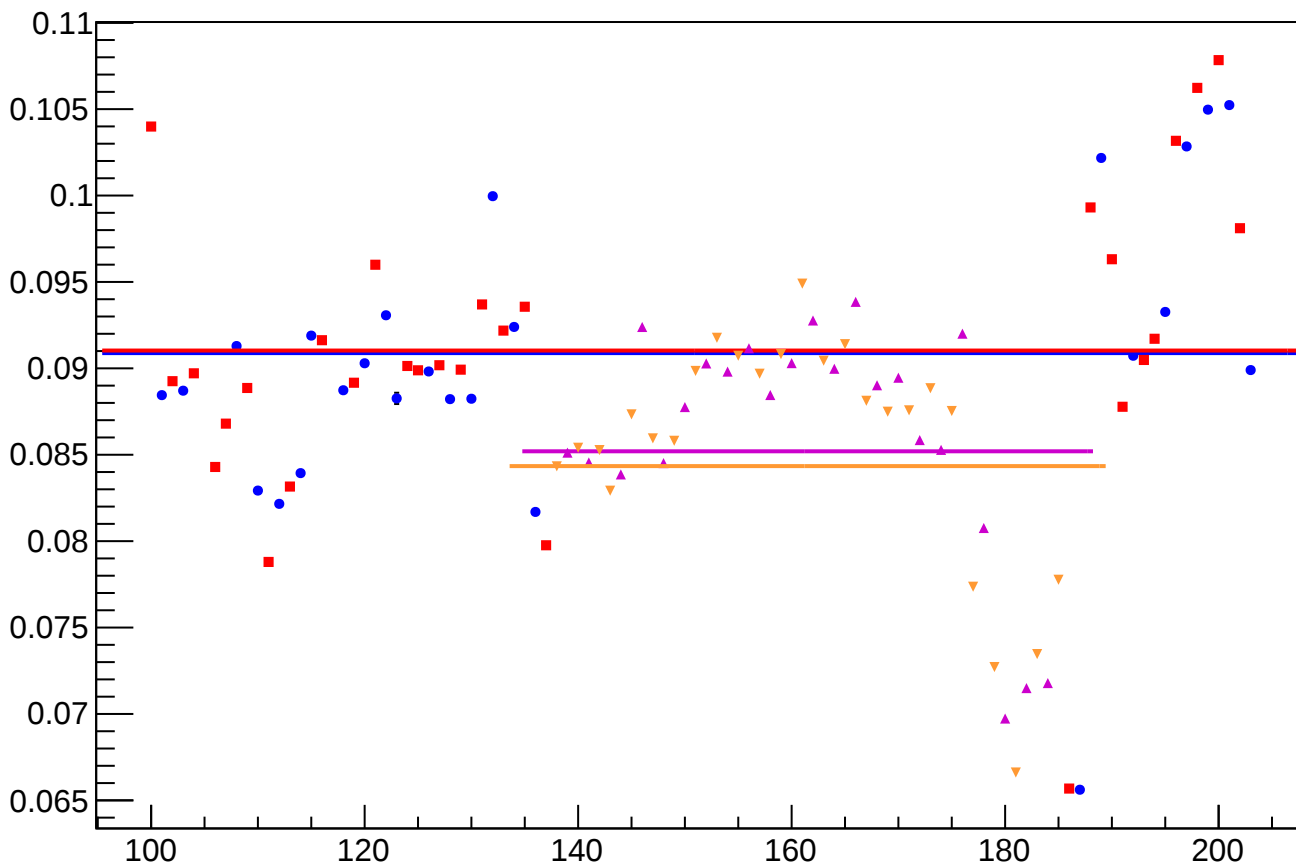
Right: -0.266 $\pm$ 0.000 χ^2 /NDF: 953568283.1/53

In: -0.650 $\pm$ 0.000 χ^2 /NDF: 1659385129.4/47

Out: -0.574 $\pm$ 0.000 χ^2 /NDF: 1899473026.6/53

All: -0.610 $\pm$ 0.000 χ^2 /NDF: 3570267990.0/1

yield_bpm0r05X_rms vs Slug, Sign Corrected



Right In: 0.091+/-0.000 χ^2/NDF : 186233.5/24

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

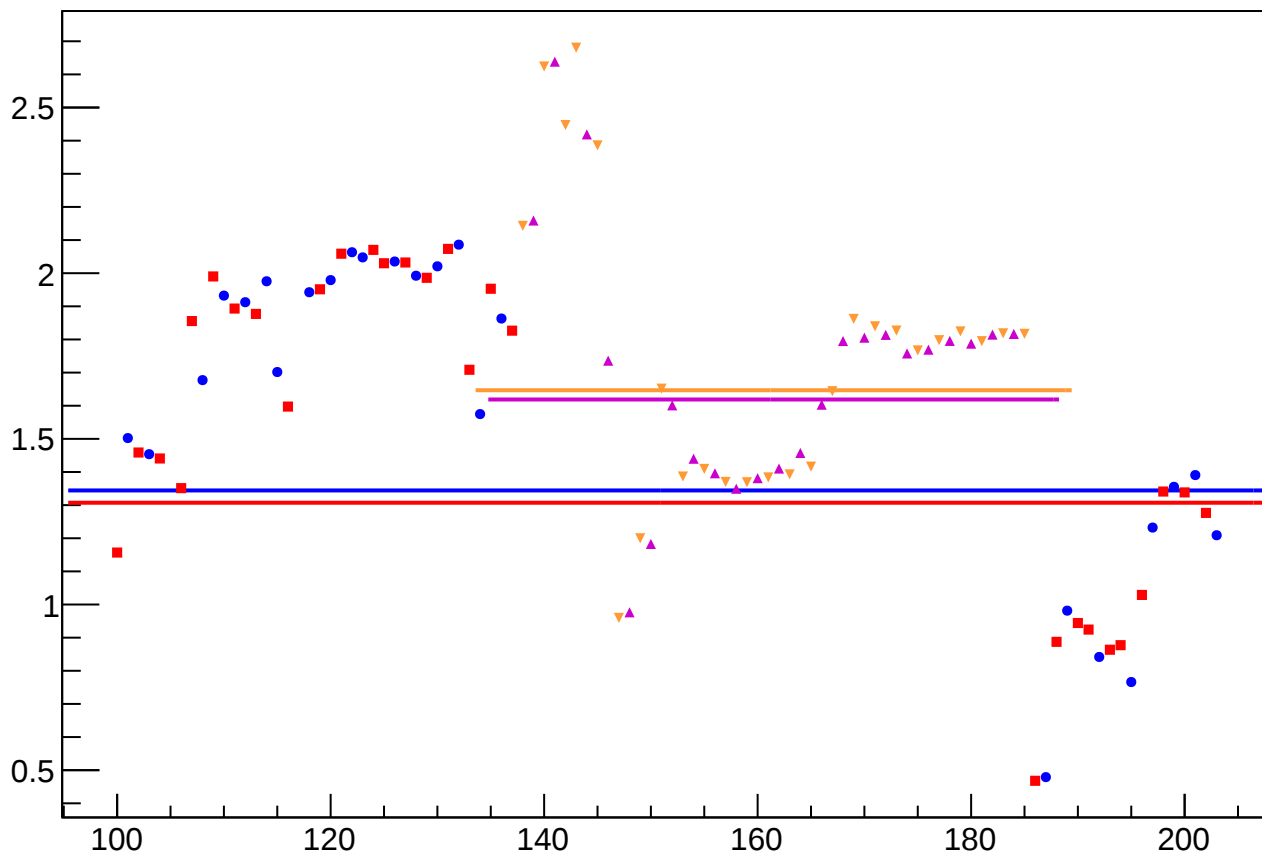
Right: 0.091+/-0.000 χ^2/NDF : 465020.3/53

In: 0.087+/-0.000 χ^2/NDF : 482839.0/47

Out: 0.087+/-0.000 χ^2/NDF : 655333.8/53

All: 0.087+/-0.000 χ^2/NDF : 1138974.0/101

yield_bpm0r05Y_mean vs Slug, Sign Corrected



Right In: 1.344 $\pm$ 0.000 χ^2 /NDF: 12708774792.1/24

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

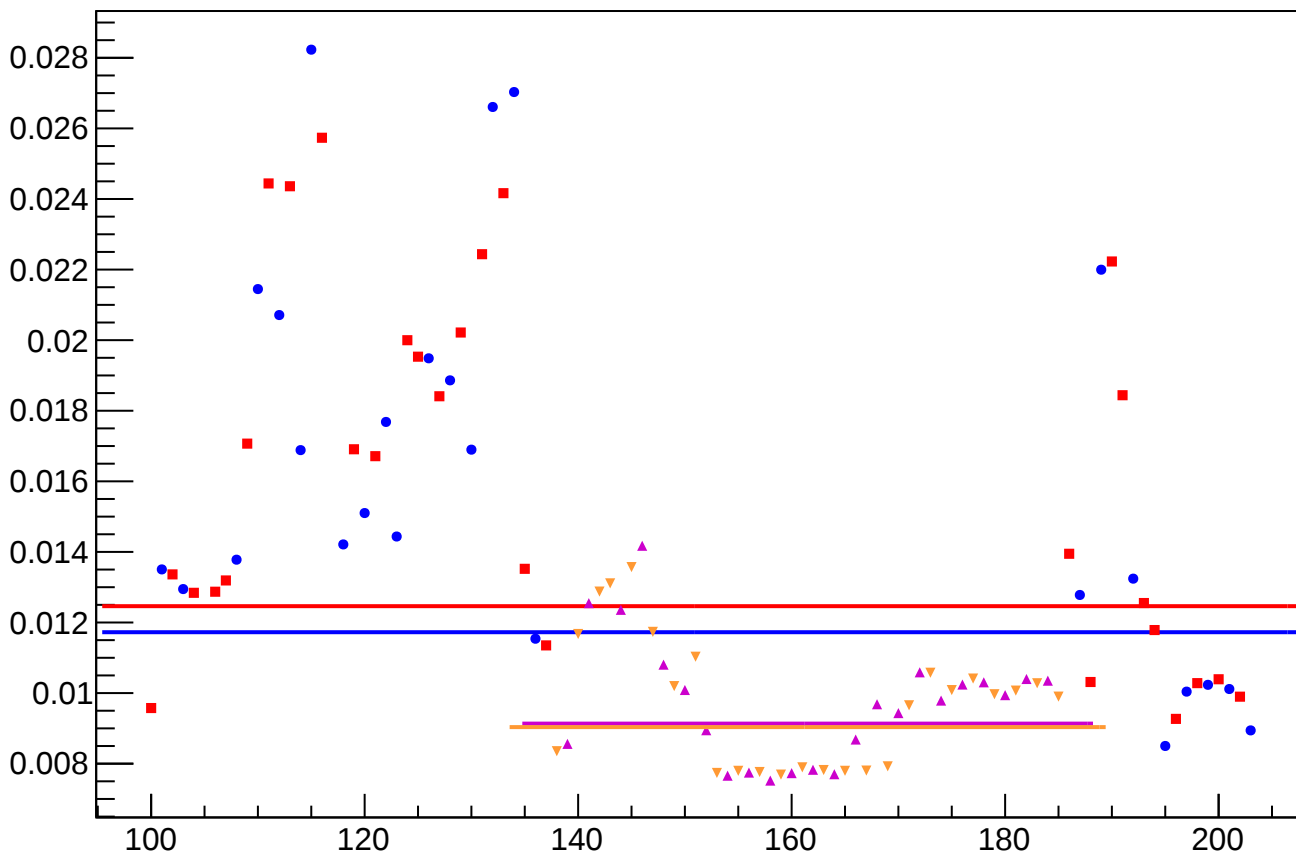
Right: 1.326 $\pm$ 0.000 χ^2 /NDF: 24752967037.1/53

In: 1.541 $\pm$ 0.000 χ^2 /NDF: 37435976591.4/47

Out: 1.558 $\pm$ 0.000 χ^2 /NDF: 44777862317.6/53

All: 1.550 $\pm$ 0.000 χ^2 /NDF: 82256899421.5/100

yield_bpm0r05Y_rms vs Slug, Sign Corrected



Right In: 0.012+/-0.000 χ^2/NDF : 1887022.3/24

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

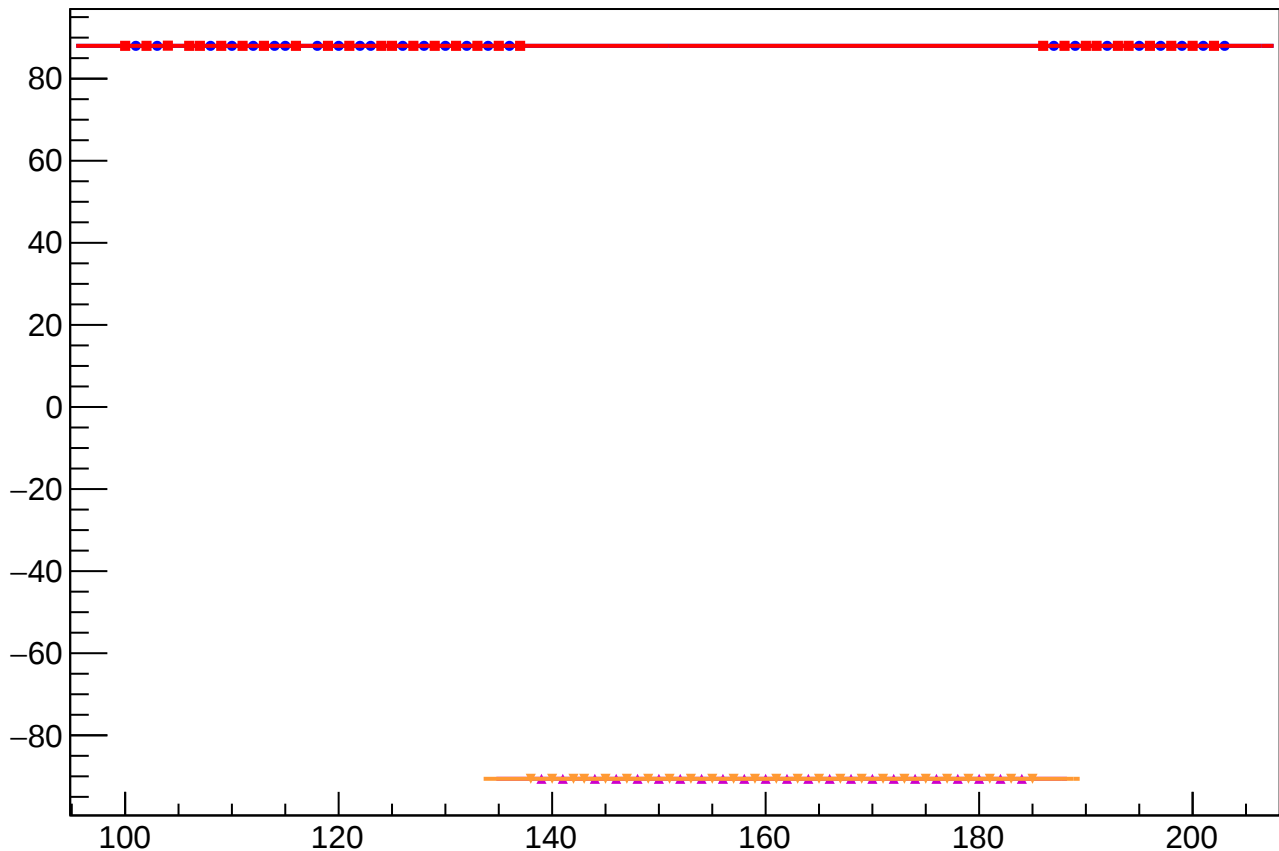
Right: 0.012+/-0.000 χ^2/NDF : 3862680.9/53

In: 0.010+/-0.000 χ^2/NDF :3496864.5/47

Out: 0.010+/-0.000 χ^2/NDF :4251048.7/53

All: 0.010+/-0.000 χ^2/NDF : 7748767.8/101

epics_VWienAngles_mean vs Slug, Sign Corrected



Right In: 88.001+/-0.000 χ^2/NDF : 3643149.0/24

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

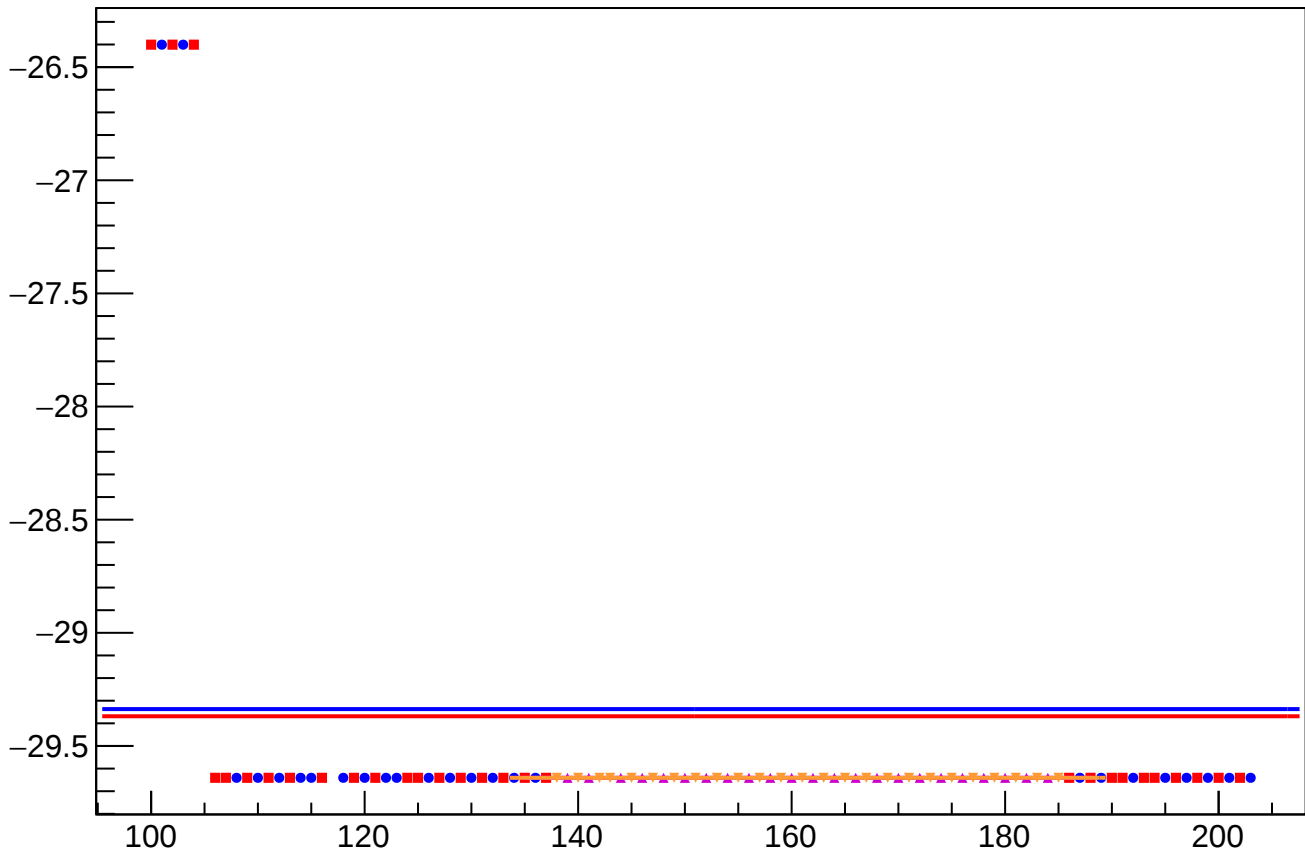
Right: 88.001+/-0.000 χ^2/NDF : 8182854726686102

In: -16.996+/-0.000 χ^2/NDF : 23609335131076900

Out: -15.507+/-0.000 χ^2/NDF : 2554897543486533

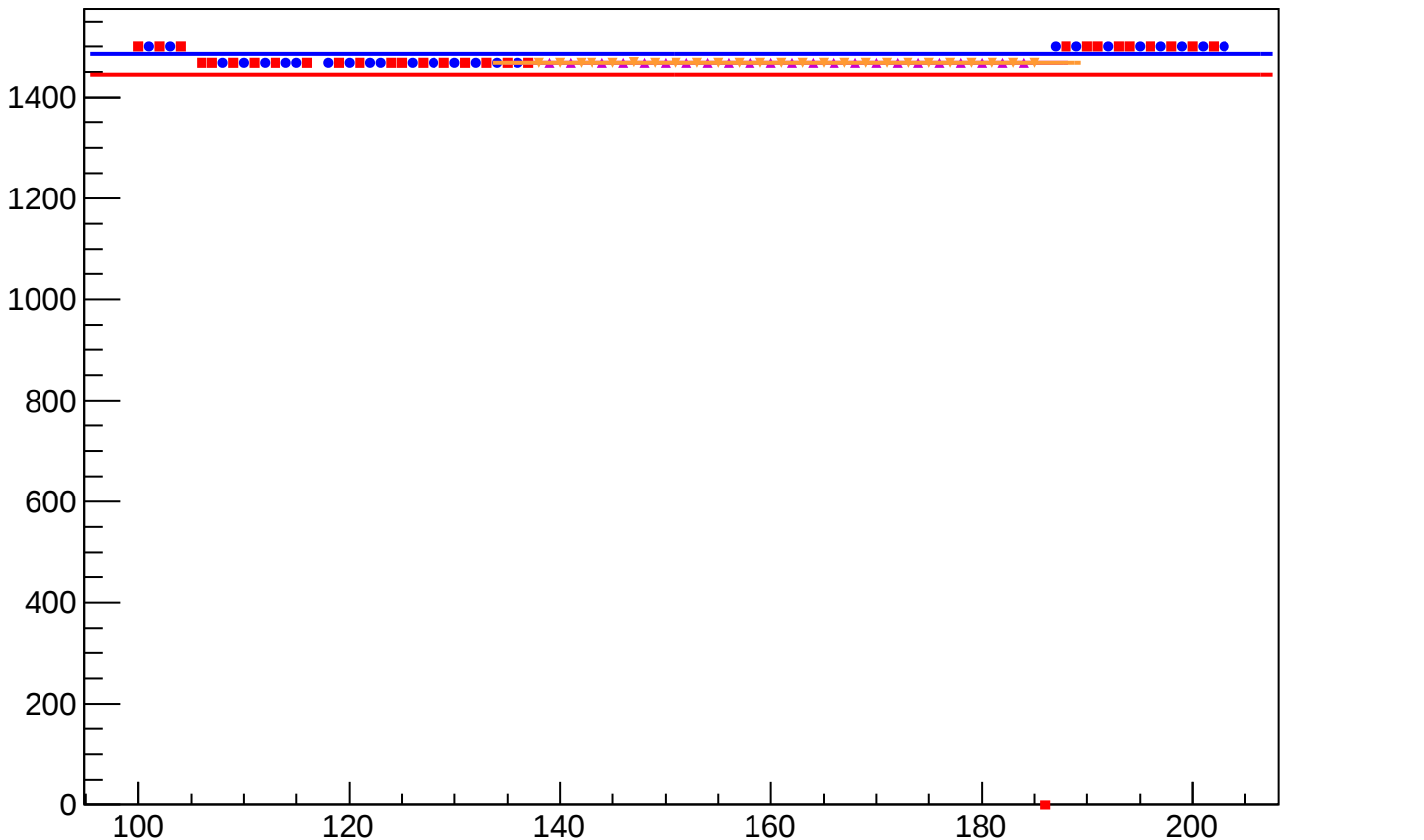
All: -16.225+/-0.000 χ^2/NDF : 491618205420

epics_HWienAngles_mean vs Slug, Sign Corrected



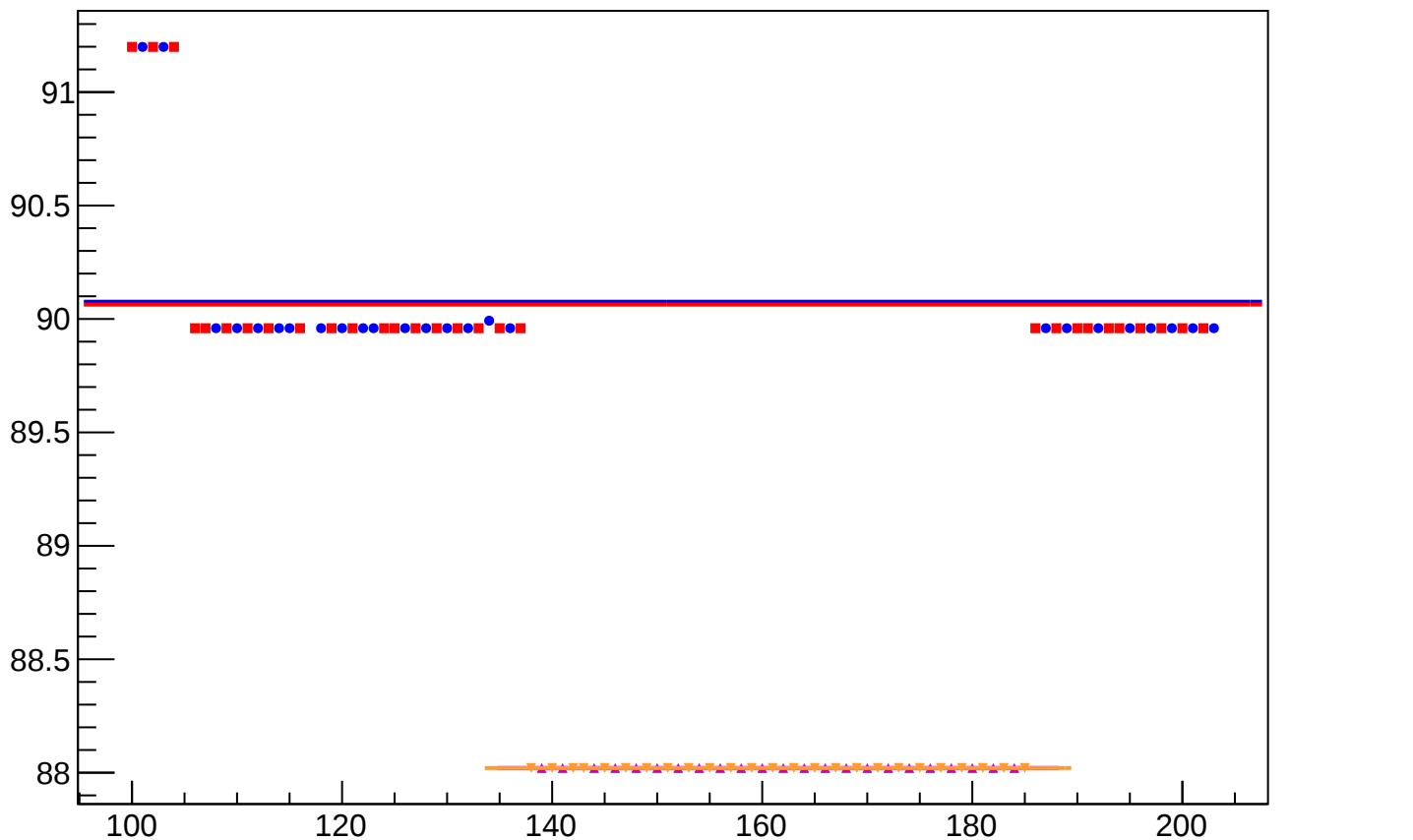
Right In: -29.337+/-0.000	χ^2/NDF : 1122617846544874204334803109543936.0/24	Left: -29.641+/-0.000	χ^2/NDF : 741150.6/47
Left Out: -29.641+/-0.000	χ^2/NDF : 530354.3/24	Right: -29.354+/-0.000	χ^2/NDF : 223879107489586
Right Out: -29.369+/-0.000	χ^2/NDF : 1115510525036170623824352082132992.0/28	In: -29.516+/-0.000	χ^2/NDF : 11908711101800178
Left In: -29.641+/-0.000	χ^2/NDF : 382603.8/22	Out: -29.526+/-0.000	χ^2/NDF : 1174747549011230
		All: -29.521+/-0.000	χ^2/NDF : 236580349214

epics_psub_pl_pos_mean vs Slug, Sign Corrected



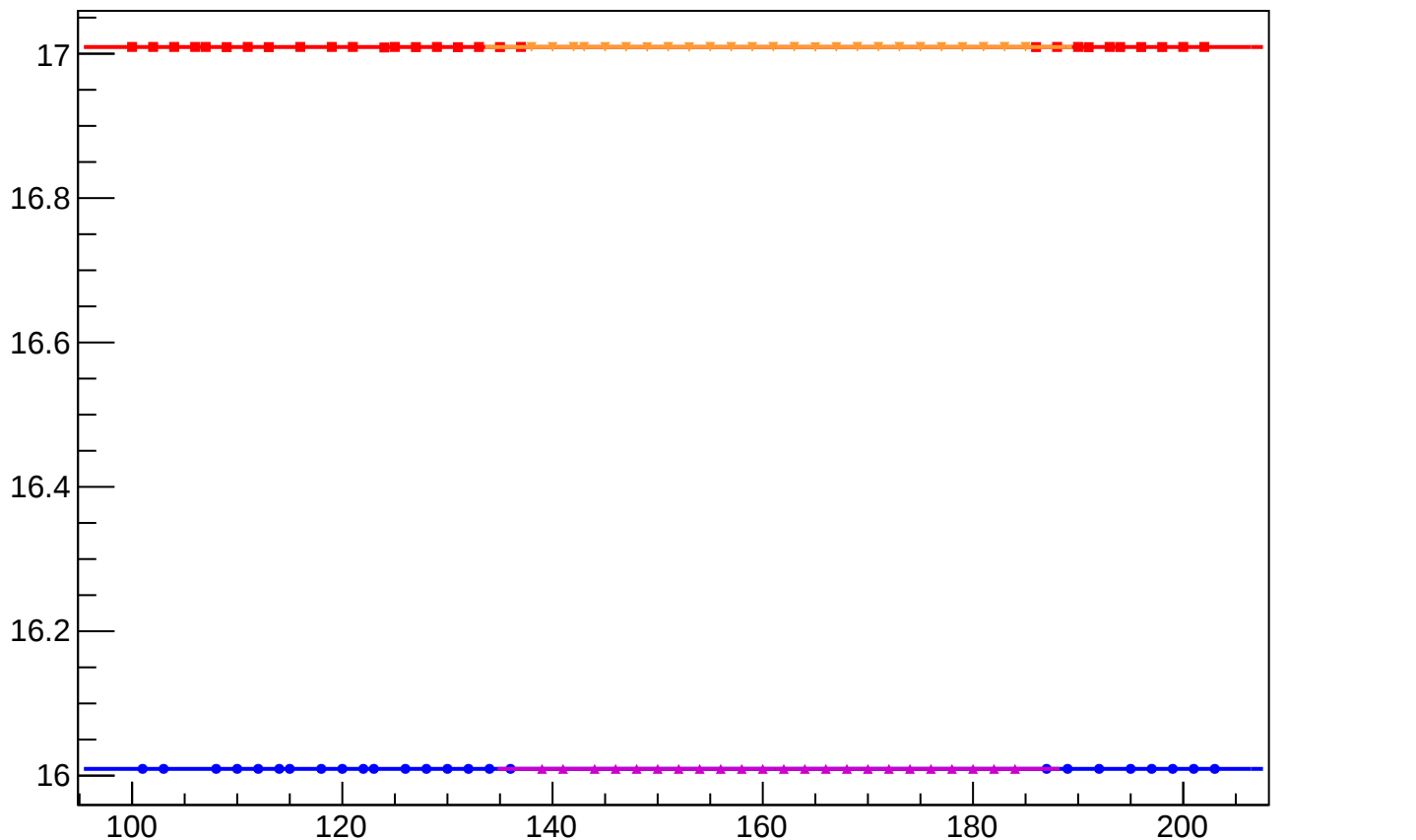
Right In: 1485.427+/-0.000 χ^2/NDF : 320135479729198739428803677731684352.0/24
 Left Out: 1468.048+/-0.000 χ^2/NDF : 127949199501977668488138456039424.0/24
 Right Out: 1444.761+/-0.000 χ^2/NDF : 81901340097495099494703597147306065920.0/28
 Left In: 1467.994+/-0.000 χ^2/NDF : 144497772795444989723550941184.0/22
 All: 1466.408+/-0.000 χ^2/NDF : 83334218233

epics_Phi_FGs_mean vs Slug, Sign Corrected



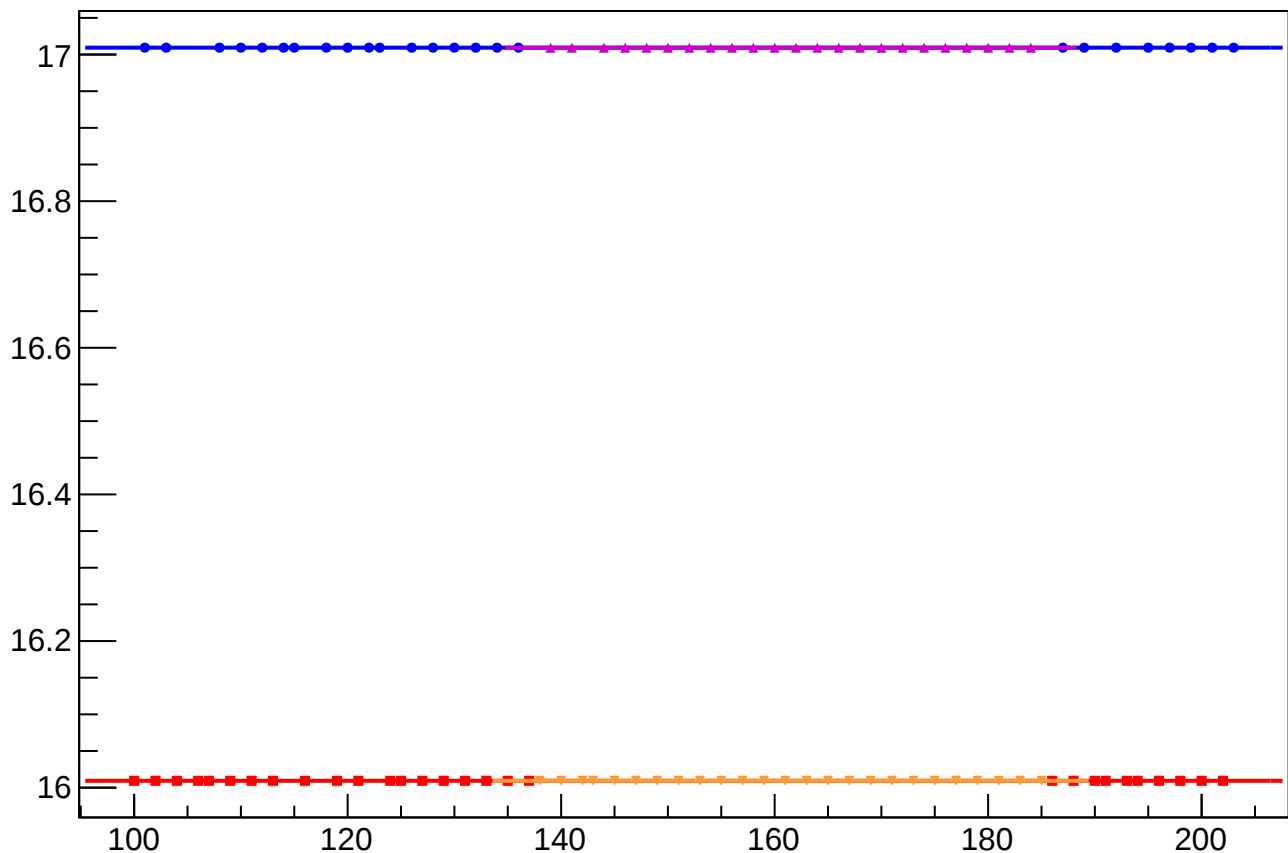
Left: 88.021+/-0.000 χ^2/NDF : 13134723.4/47
 Right: 90.069+/-0.000 χ^2/NDF : 3277895055552919
 Right In: 90.076+/-0.000 χ^2/NDF : 164292838619764038862240609206272.0/24
 Left Out: 88.021+/-0.000 χ^2/NDF : 5679798.5/24
 In: 88.868+/-0.000 χ^2/NDF : 329108082596285318
 Right Out: 90.063+/-0.000 χ^2/NDF : 163390582923339723894831087353856.0/28
 Out: 88.880+/-0.000 χ^2/NDF : 35053546638880705
 Left In: 88.021+/-0.000 χ^2/NDF : 6257169.0/22
 All: 88.874+/-0.000 χ^2/NDF : 6796655657115

epics_IGL1I00DI24_24Ms_mean vs Slug, Sign Corrected



Right In: 16.009+/-0.000	χ^2/NDF : 112604327079546359644160.0/24	Left: 16.524+/-0.000	χ^2/NDF : 85855870772921272
Left Out: 17.009+/-0.000	χ^2/NDF : 26194929080144976634970112.0/24	Right: 16.527+/-0.000	χ^2/NDF : 6346345530775727
Right Out: 17.009+/-0.000	χ^2/NDF : 17589048934529243216347136.0/28	In: 16.009+/-0.000	χ^2/NDF : 240845865032439522
Left In: 16.009+/-0.000	χ^2/NDF : 127920993667935400624128.0/22	Out: 17.009+/-0.000	χ^2/NDF : 44259309733042860
		All: 16.525+/-0.000	χ^2/NDF : 1493202302898

epics_IGL1I00OD16_16s_mean vs Slug, Sign Corrected



Right In: 17.009+/-0.000

χ^2/NDF : 112604327125149651304448.0/24

Left: 16.491+/-0.000

χ^2/NDF : 90683349233974458

Left Out: 16.009+/-0.000

χ^2/NDF : 61253.5/24

Right: 16.481+/-0.000

χ^2/NDF : 6483921623957974

Right Out: 16.009+/-0.000

χ^2/NDF : 262406.7/28

In: 17.009+/-0.000

χ^2/NDF : 228009518460350756

Out: 16.009+/-0.000

χ^2/NDF : 535996.3/53

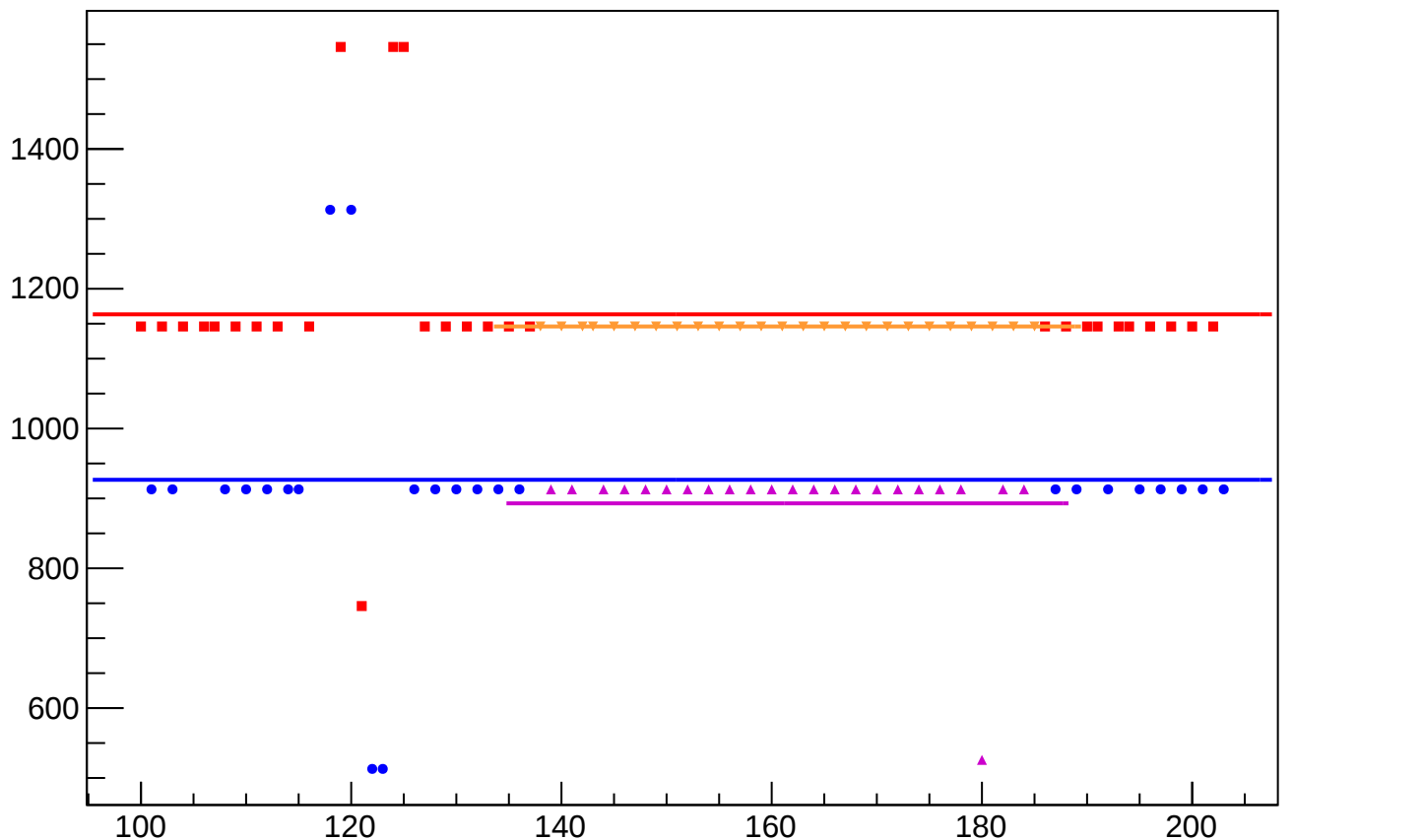
Left In: 17.009+/-0.000

χ^2/NDF : 114986101427233622065152.0/22

All: 16.487+/-0.000

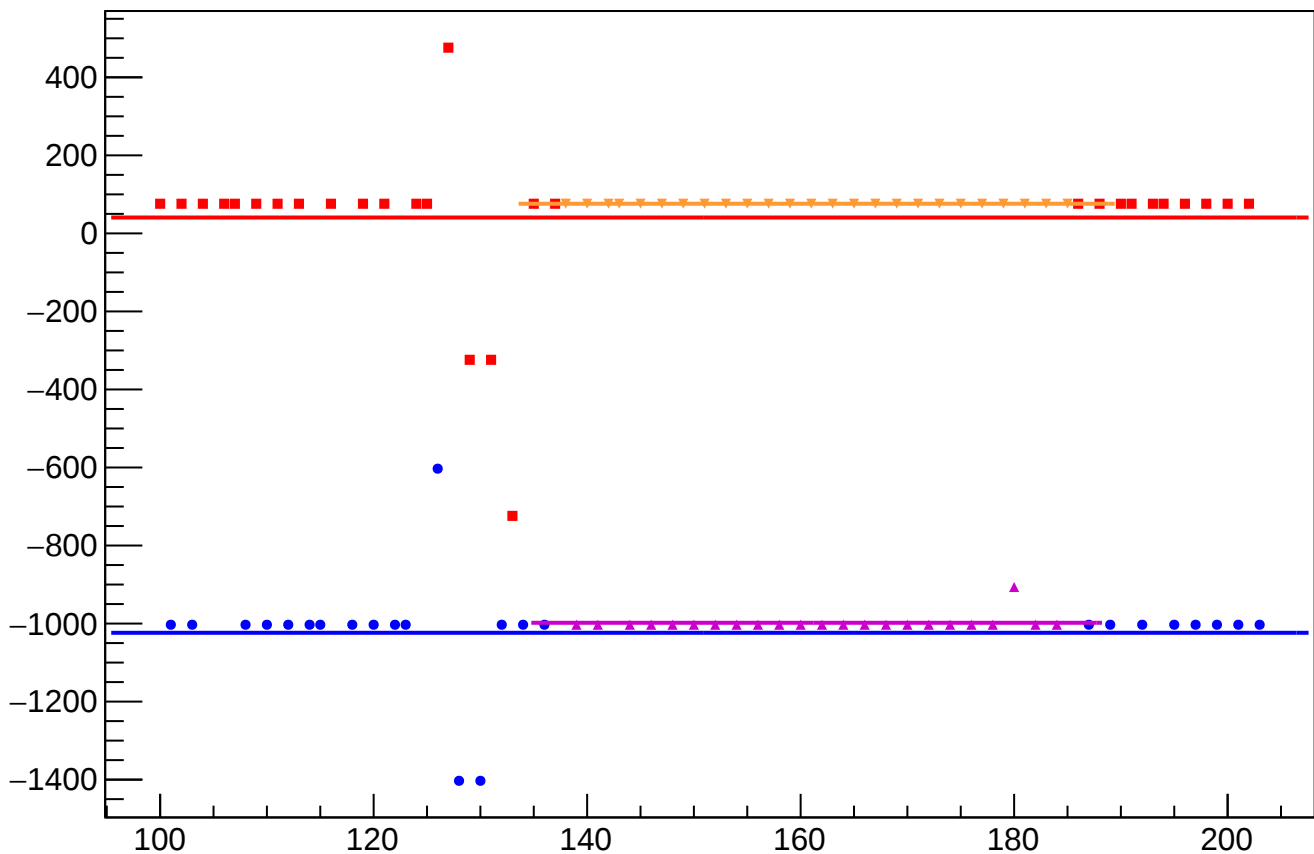
χ^2/NDF : 1555394177328

epics_RTPAPOSUCNTs_mean vs Slug, Sign Corrected



Right In: 926.657 $\pm$ 0.000 χ^2 /NDF: 21046354620191125675225052276693401600.0/24
 Left Out: 1146.011 $\pm$ 0.000 χ^2 /NDF: 8056834670270133849999540224.0/24
 Right Out: 1163.376 $\pm$ 0.000 χ^2 /NDF: 21663927039868818713388204503632707584.0/28
 Left In: 892.950 $\pm$ 0.000 χ^2 /NDF: 13213852485930520518972295012897783808.0/22
 All: 1034.585 $\pm$ 0.000 χ^2 /NDF: 1531934883

epics_RTPAPOSVCNTs_mean vs Slug, Sign Corrected



Right In: -1023.641+/-0.000

χ^2/NDF : 22662714308933685512270445050274512896.0/24

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: -454.129+/-0.000 χ^2/NDF : 18821480126