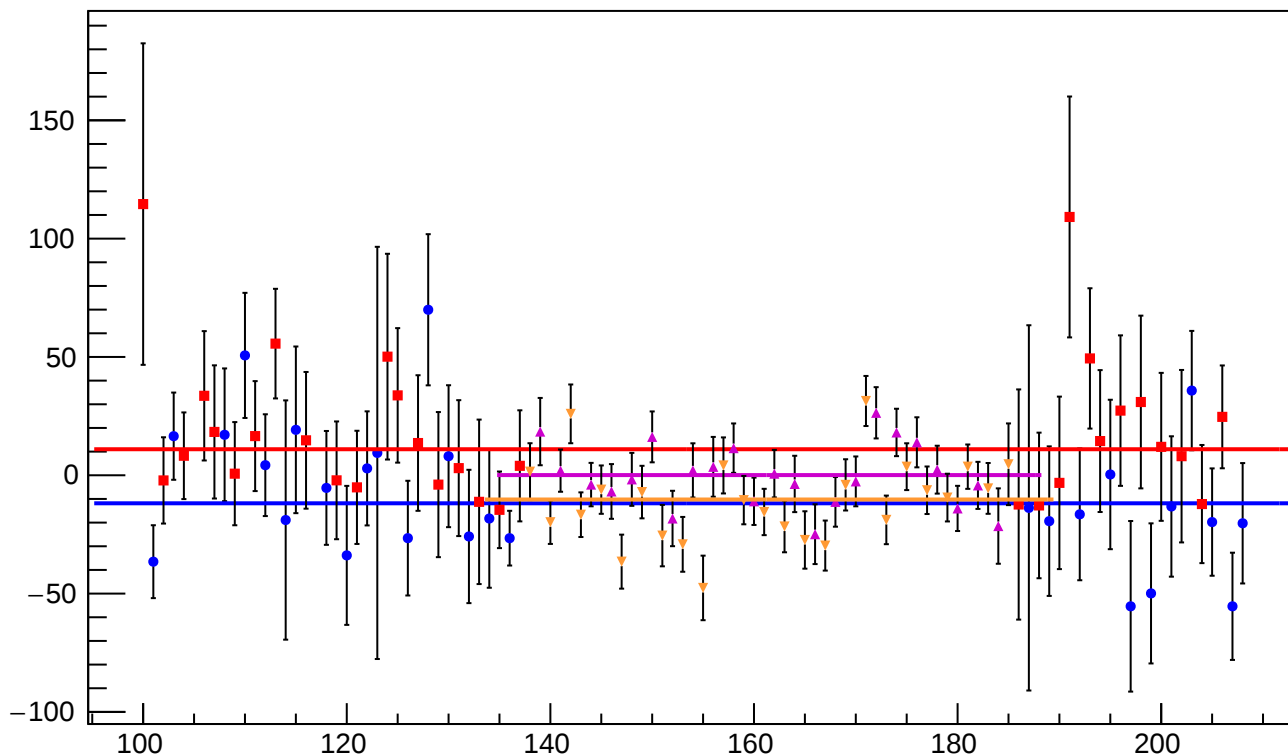


diff_bpm4aX_mean vs Slug, Sign Corrected



Right In: -11.841 ± 4.704

χ^2/NDF : 34.1/27

Left Out: -10.238 ± 2.170

χ^2/NDF : 58.1/24

Right Out: 11.003 ± 4.821

χ^2/NDF : 21.4/30

Left In: 0.080 ± 2.251

χ^2/NDF : 29.9/22

Left: -5.266 ± 1.562

χ^2/NDF : 98.9/47

Right: -0.699 ± 3.367

χ^2/NDF : 67.0/58

In: -2.140 ± 2.030

χ^2/NDF : 69.2/50

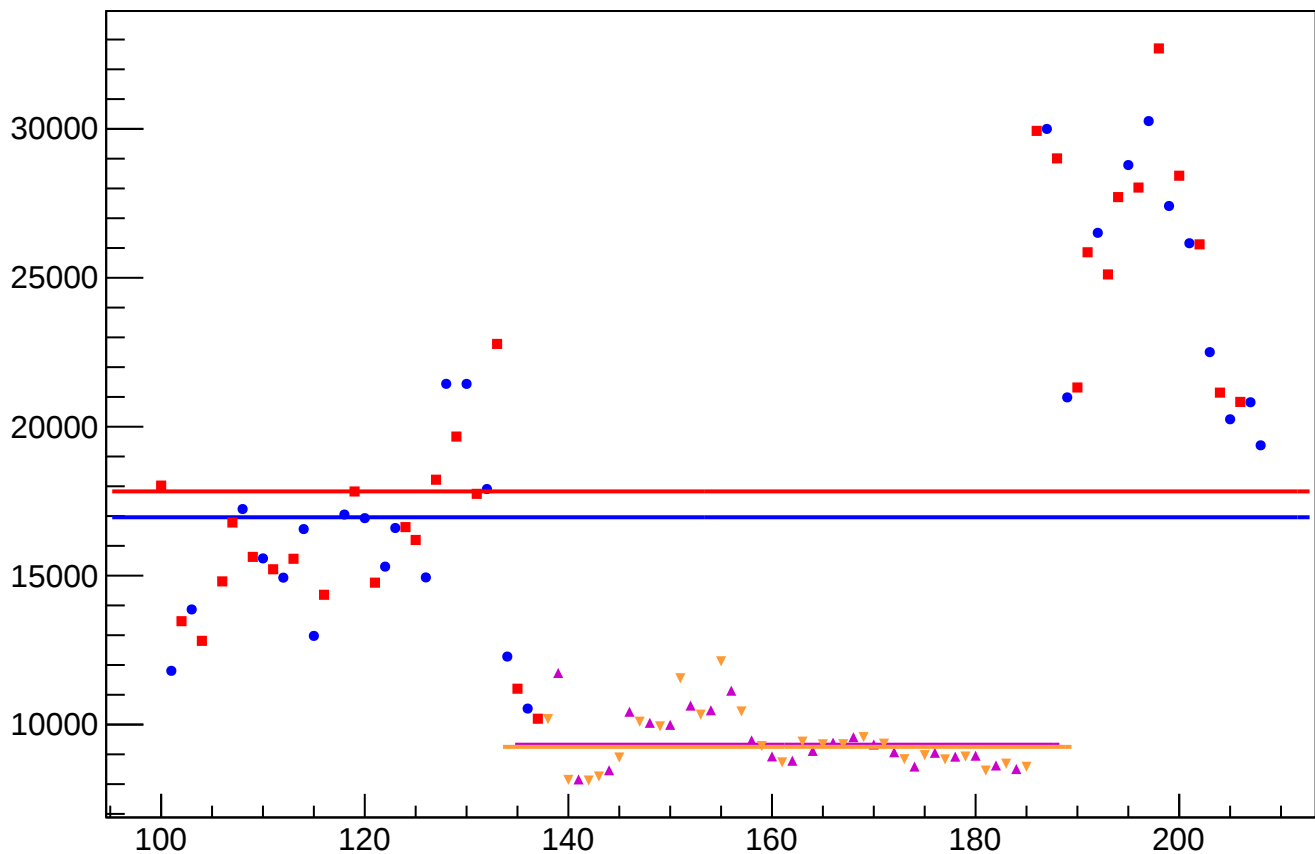
Out: -6.659 ± 1.979

χ^2/NDF : 95.6/55

All: -4.457 ± 1.417

χ^2/NDF : 167.4/106

diff_bpm4aX_rms vs Slug, Sign Corrected



Right In: 16959.681 $\pm$ 3.326 χ^2 /NDF: 2641891.5/27

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

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

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

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

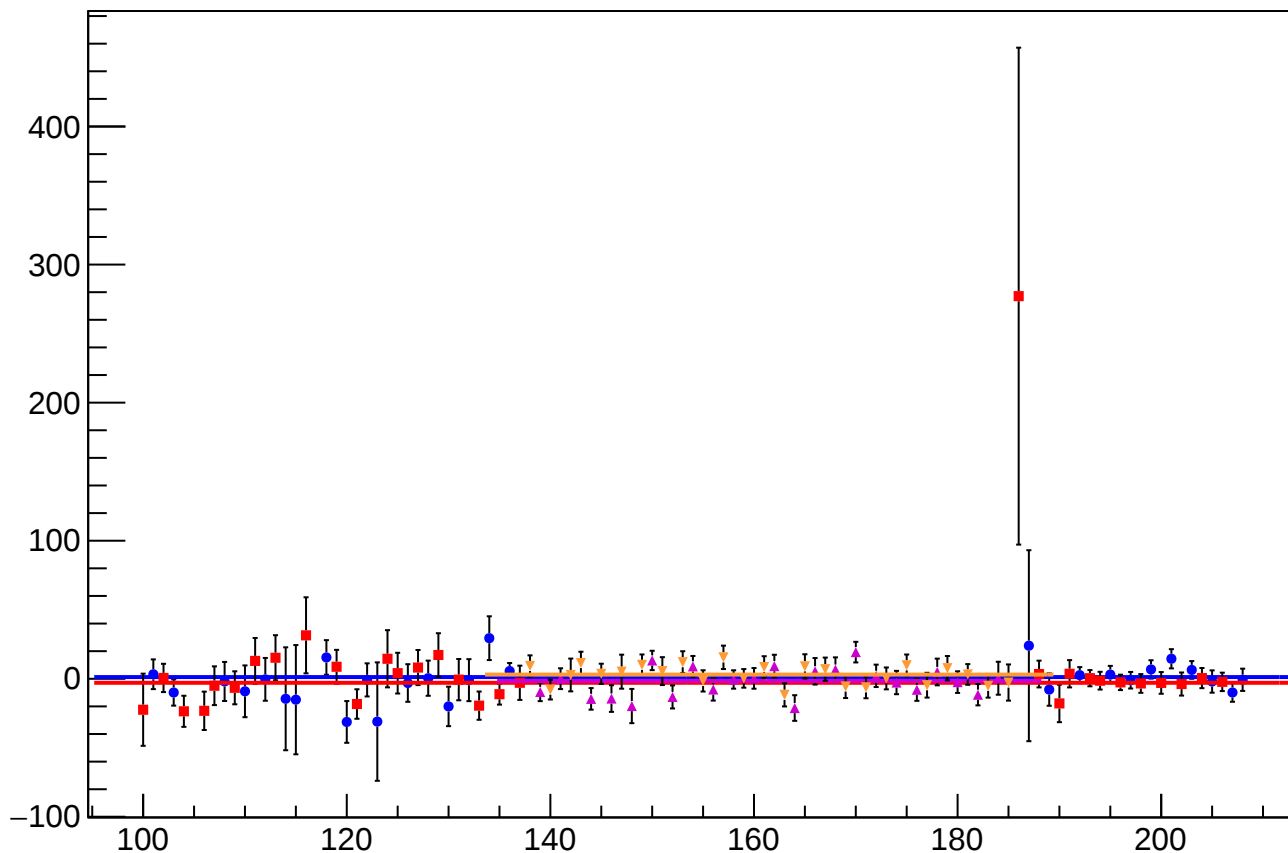
Right: 17383.249 $\pm$ 2.381 χ^2 /NDF: 5435327.4/58

In: 10746.059 $\pm$ 1.436 χ^2 /NDF:7205342.2/50

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

All: 10720.829 $\pm$ 1.002 χ^2 /NDF: 15561028.6

diff_bpm4aY_mean vs Slug, Sign Corrected



Right In: 1.233 $\pm$ 1.778 χ^2/NDF : 23.6/27

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

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

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

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

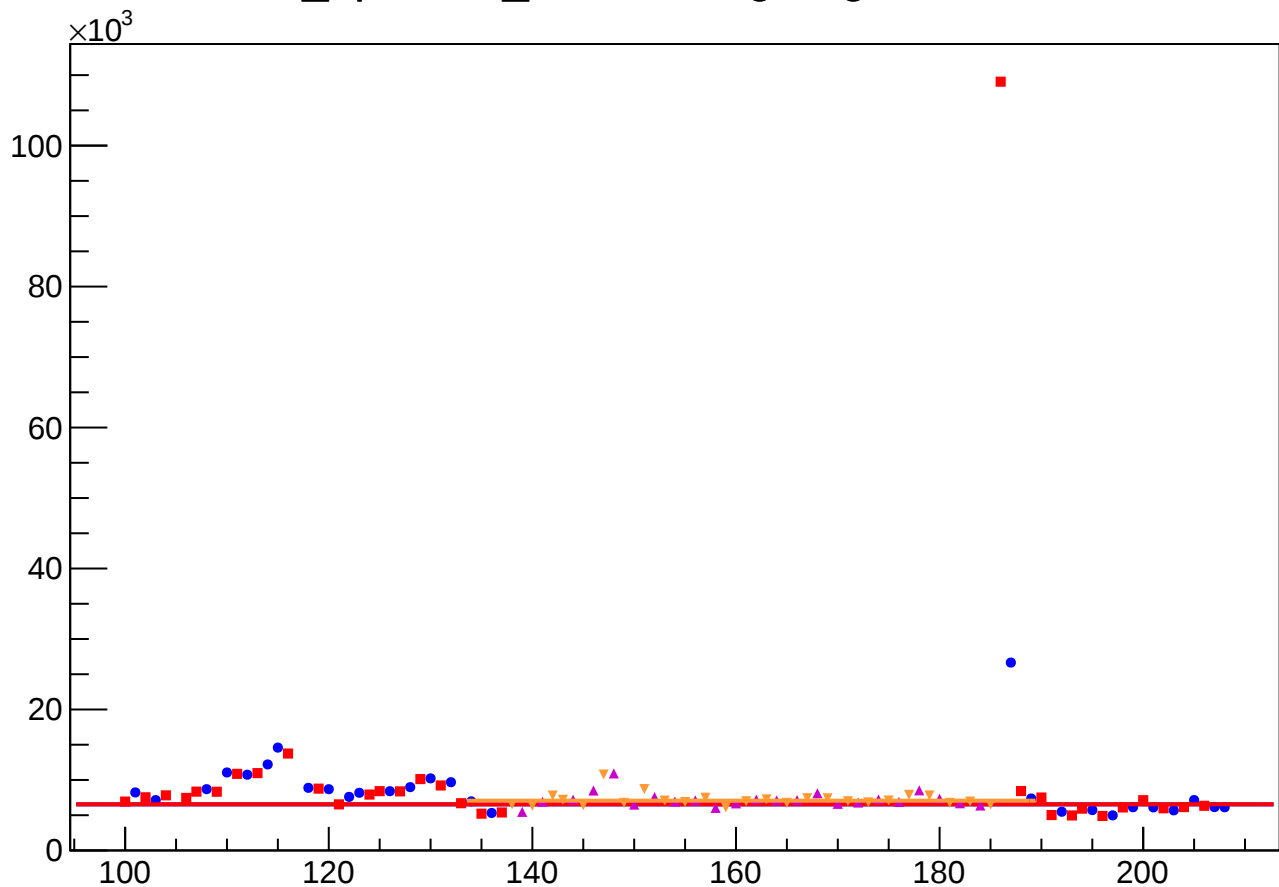
Right: -0.844 $\pm$ 1.253 χ^2/NDF : 51.6/58

In: -0.239 $\pm$ 1.230 χ^2/NDF : 60.5/50

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

All: 0.009 $\pm$ 0.862 χ^2/NDF : 110.3/106

diff_bpm4aY_rms vs Slug, Sign Corrected



Right In: 6532.727 $\pm$ 1.257 χ^2/NDF : 1530801.8/27

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

Right Out: 6552.169 $\pm$ 1.249 χ^2/NDF : 2102086.7/30

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

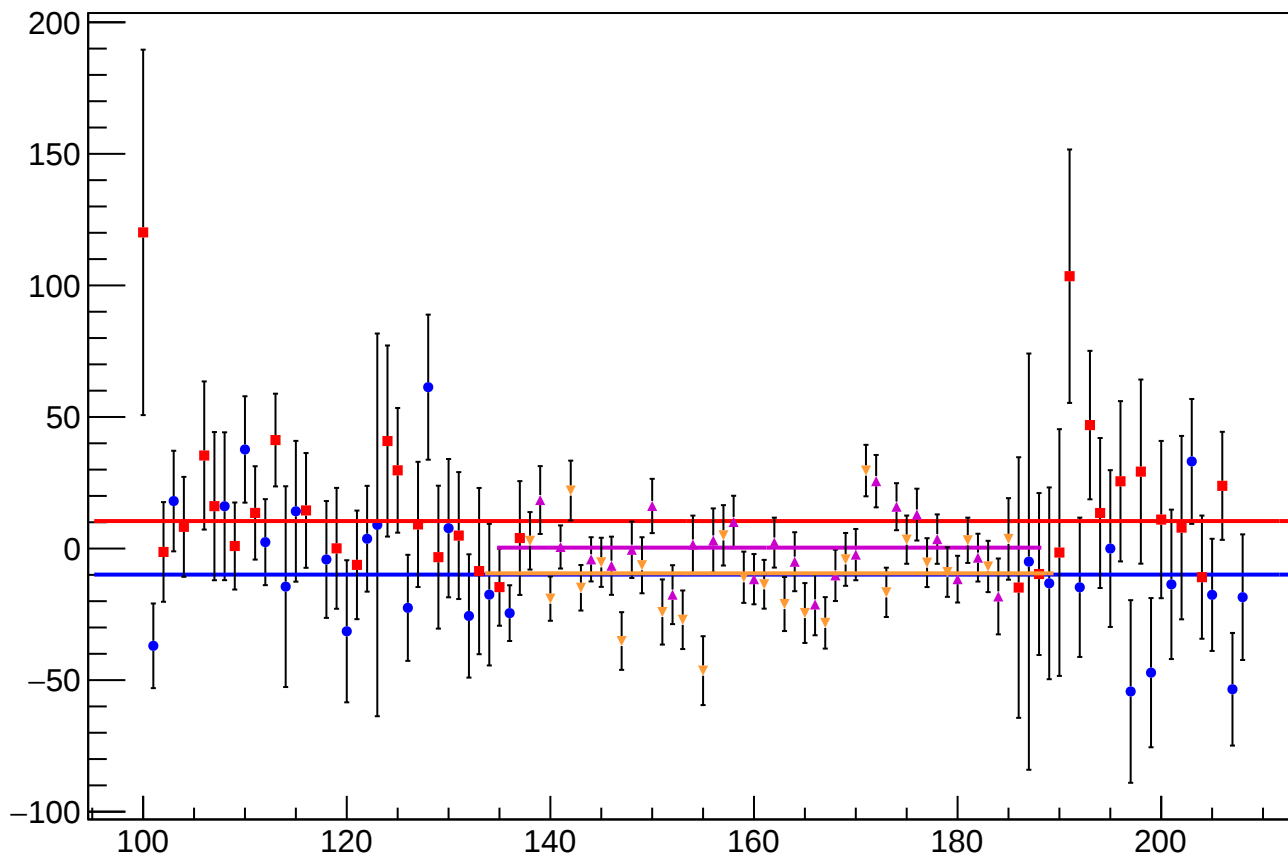
Right: 6542.515 $\pm$ 0.886 χ^2/NDF : 3633008.9/58

In: 6784.086 $\pm$ 0.870 χ^2/NDF : 2132739.5/50

Out: 6824.040 $\pm$ 0.855 χ^2/NDF : 2578230.3/55

All: 6804.390 $\pm$ 0.610 χ^2/NDF : 4712042.7/100

diff_bpm4eX_mean vs Slug, Sign Corrected



Right In: -9.900 ± 4.294 χ^2/NDF : 35.2/27

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

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

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

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

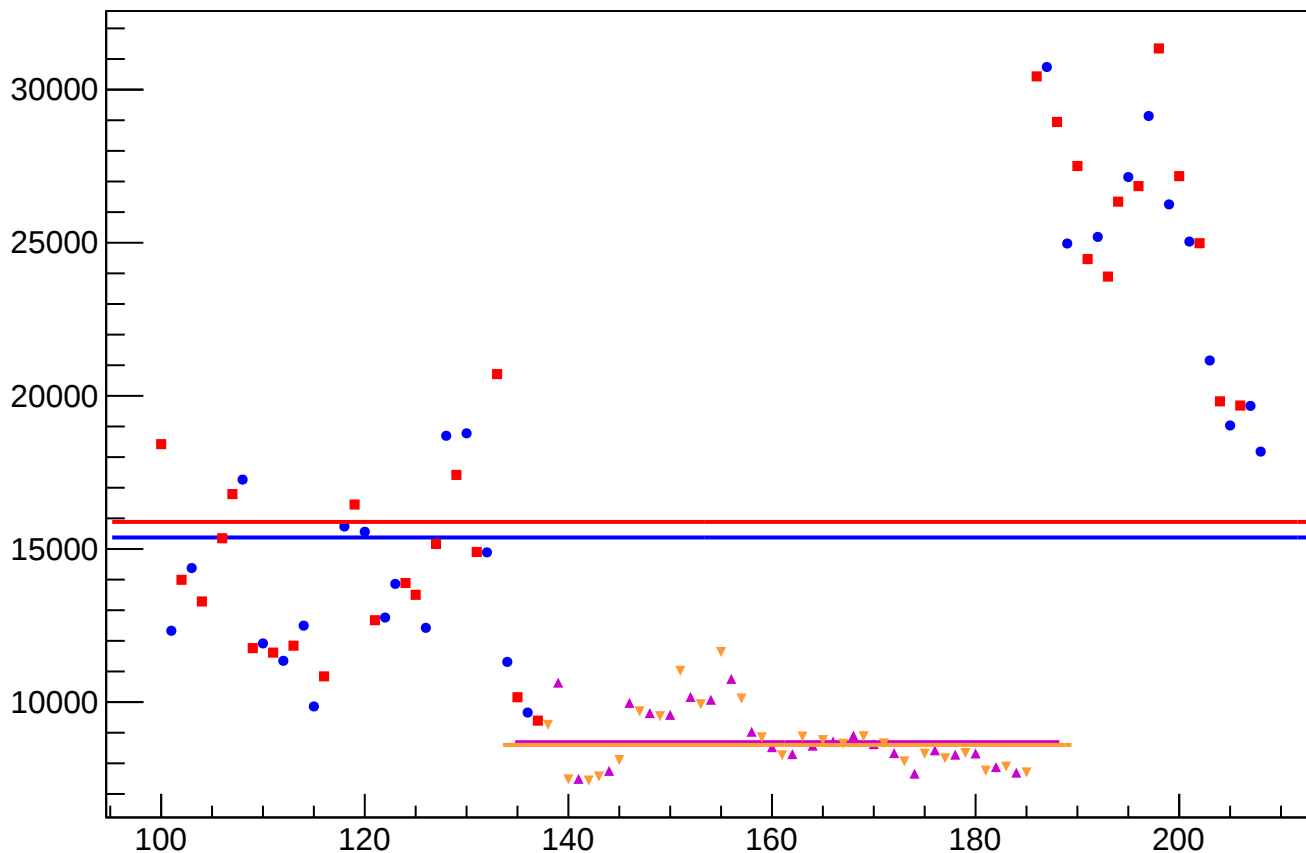
Right: 0.131 ± 3.057 χ^2/NDF : 67.3/58

In: -1.634 ± 1.887 χ^2/NDF : 69.7/50

Out: -5.891 ± 1.833 χ^2/NDF : 96.9/55

All: -3.824 ± 1.315 χ^2/NDF : 169.2/106

diff_bpm4eX_rms vs Slug, Sign Corrected



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

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

Right Out: 15883.654 $\pm$ 3.079 χ^2/NDF : 3480536.7/30

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

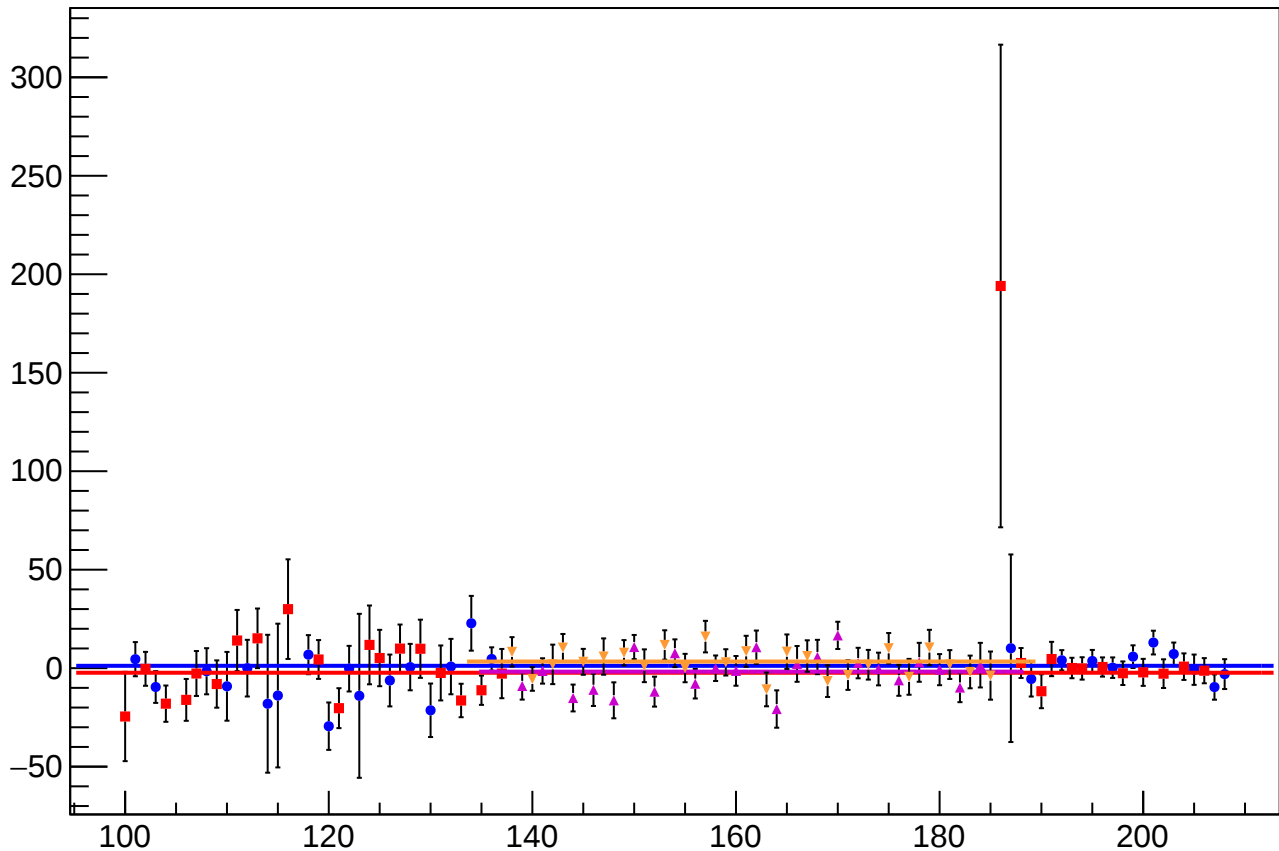
Right: 15626.008 $\pm$ 2.162 χ^2/NDF : 6554866.1/58

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

Out: 9892.607 $\pm$ 1.296 χ^2/NDF : 8520177.6/55

All: 9936.042 $\pm$ 0.930 χ^2/NDF : 15859566.4/105

diff_bpm4eY_mean vs Slug, Sign Corrected



Right In: 1.197 ± 1.594 χ^2/NDF : 25.5/27

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

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

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

Left: 0.899 ± 1.116 χ^2/NDF : 56.0/47

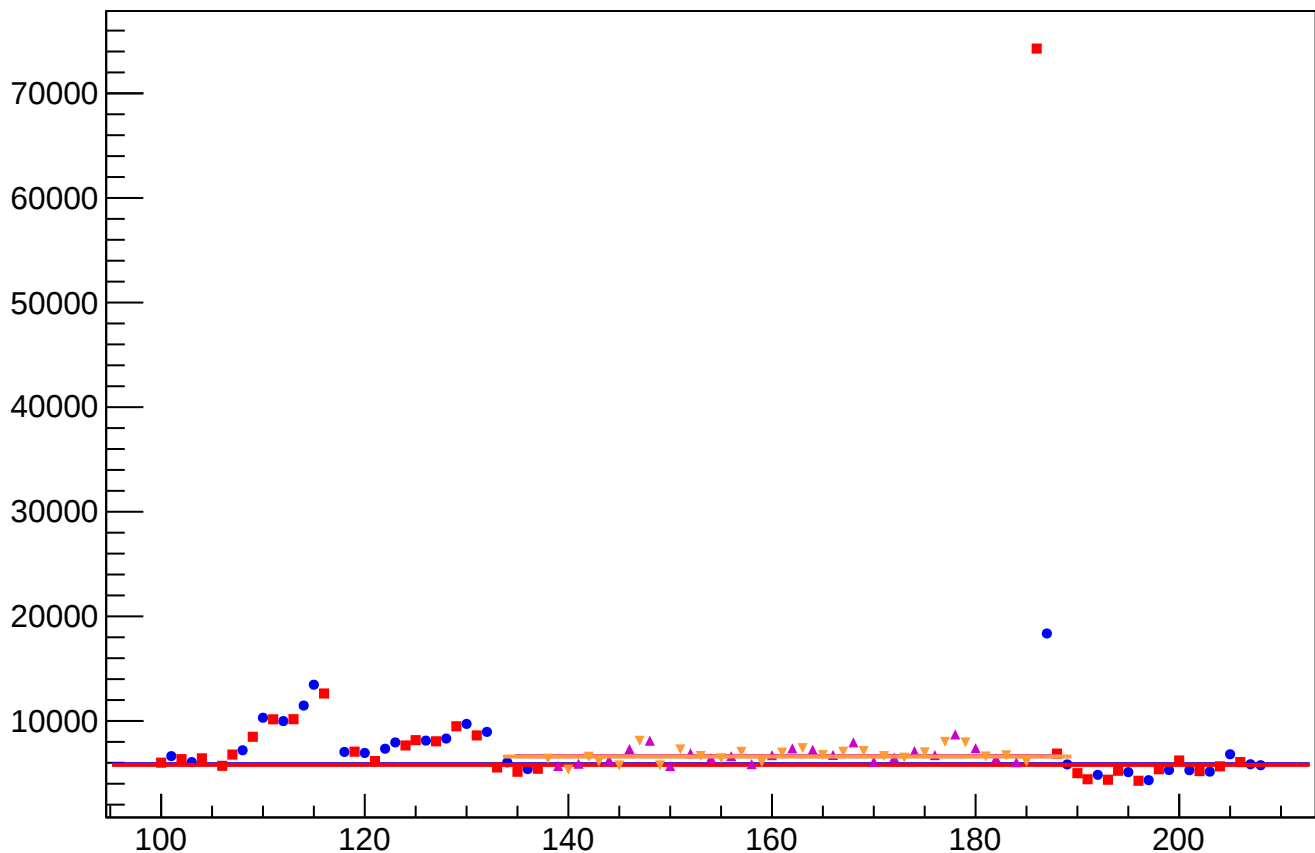
Right: -0.604 ± 1.114 χ^2/NDF : 53.9/58

In: -0.268 ± 1.132 χ^2/NDF : 60.7/50

Out: 0.537 ± 1.100 χ^2/NDF : 49.8/55

All: 0.146 ± 0.789 χ^2/NDF : 110.8/106

diff_bpm4eY_rms vs Slug, Sign Corrected



Right In: 5870.070+/-1.127

χ^2/NDF : 1492674.8/27

Left Out: 6603.953+/-1.097

χ^2/NDF : 395247.5/24

Right Out: 5802.732+/-1.102

χ^2/NDF : 2132962.4/30

Left In: 6637.155+/-1.136

χ^2/NDF : 415547.5/22

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

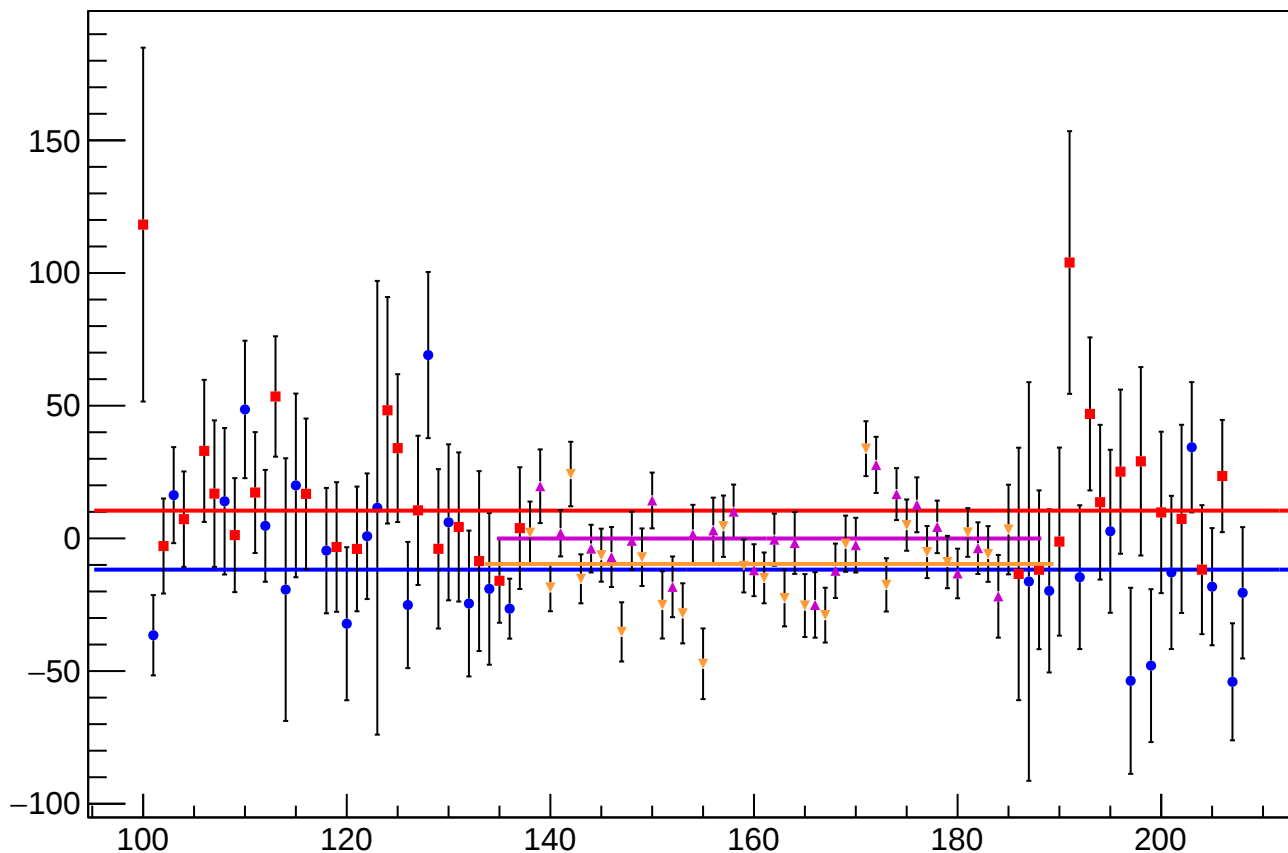
Right: 5835.634+/-0.788 χ^2/NDF : 3627461.8/58

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

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

All: 6227.142+/-0.558 χ^2/NDF : 4933220.8/10

diff_bpm4acX_mean vs Slug, Sign Corrected



Right In: -11.769 ± 4.601 χ^2/NDF : 33.9/27

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

Right Out: 10.461 ± 4.717 χ^2/NDF : 21.4/30

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

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

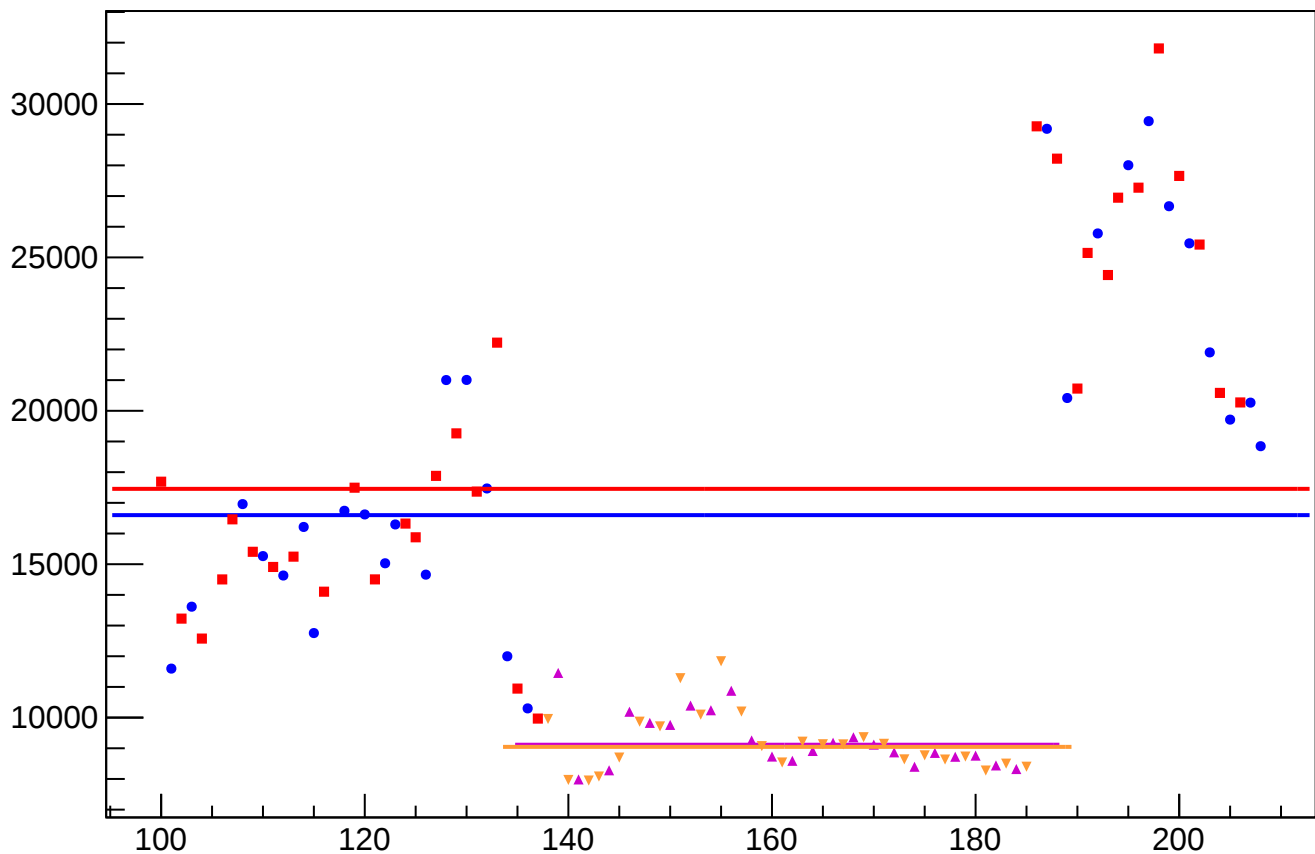
Right: -0.930 ± 3.293 χ^2/NDF : 66.6/58

In: -2.225 ± 1.985 χ^2/NDF : 69.9/50

Out: -6.257 ± 1.935 χ^2/NDF : 96.4/55

All: -4.292 ± 1.386 χ^2/NDF : 168.4/106

diff_bpm4acX_rms vs Slug, Sign Corrected



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

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

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

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

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

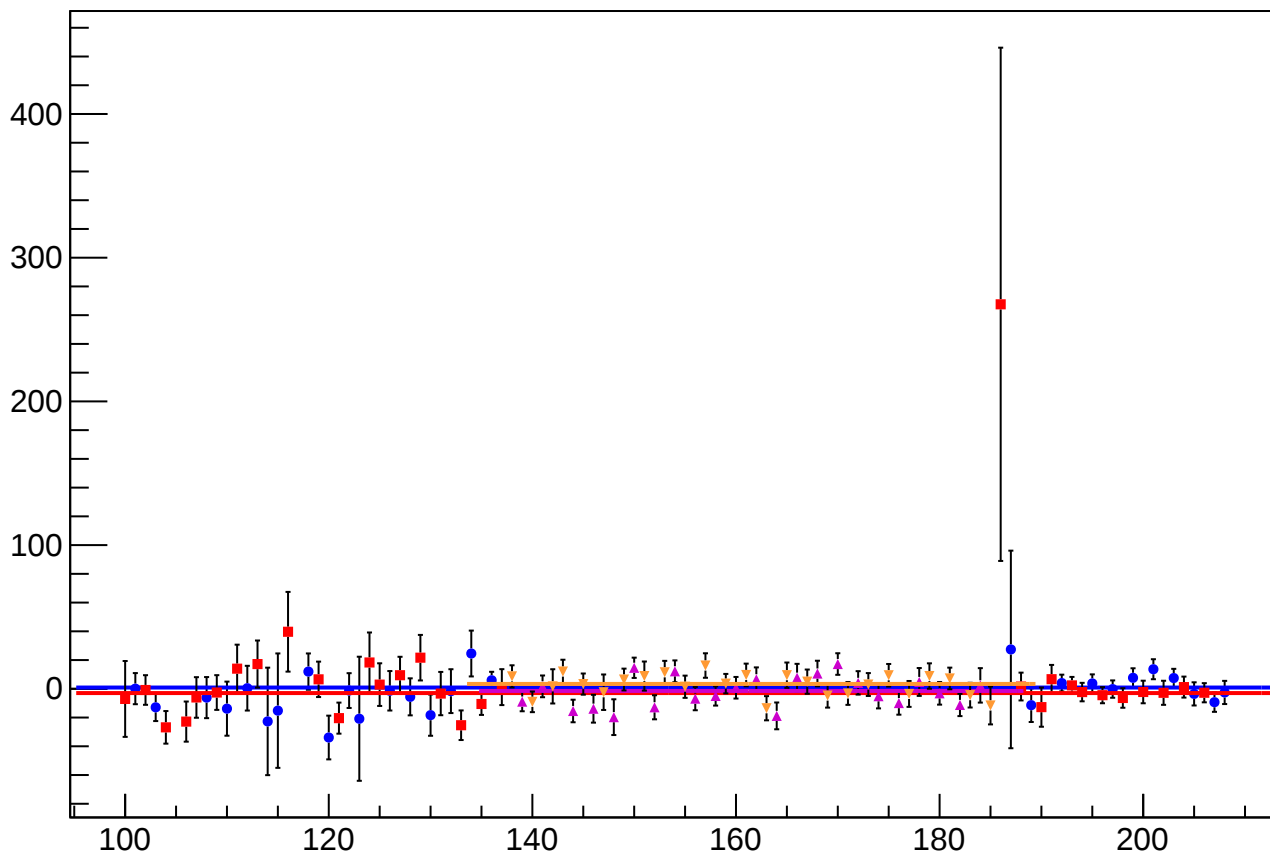
Right: 17017.259 $\pm$ 2.329 χ^2 /NDF: 5349226.4/58

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

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

All: 10484.421 $\pm$ 0.980 χ^2 /NDF: 15512740.5

diff_bpm4acY_mean vs Slug, Sign Corrected



Right In: 0.882 ± 1.784 χ^2/NDF : 24.8/27

Left Out: 3.387 ± 1.668 χ^2/NDF : 19.4/24

Right Out: -2.966 ± 1.773 χ^2/NDF : 30.5/30

Left In: -1.479 ± 1.710 χ^2/NDF : 36.7/22

Left: 1.015 ± 1.194 χ^2/NDF : 60.3/47

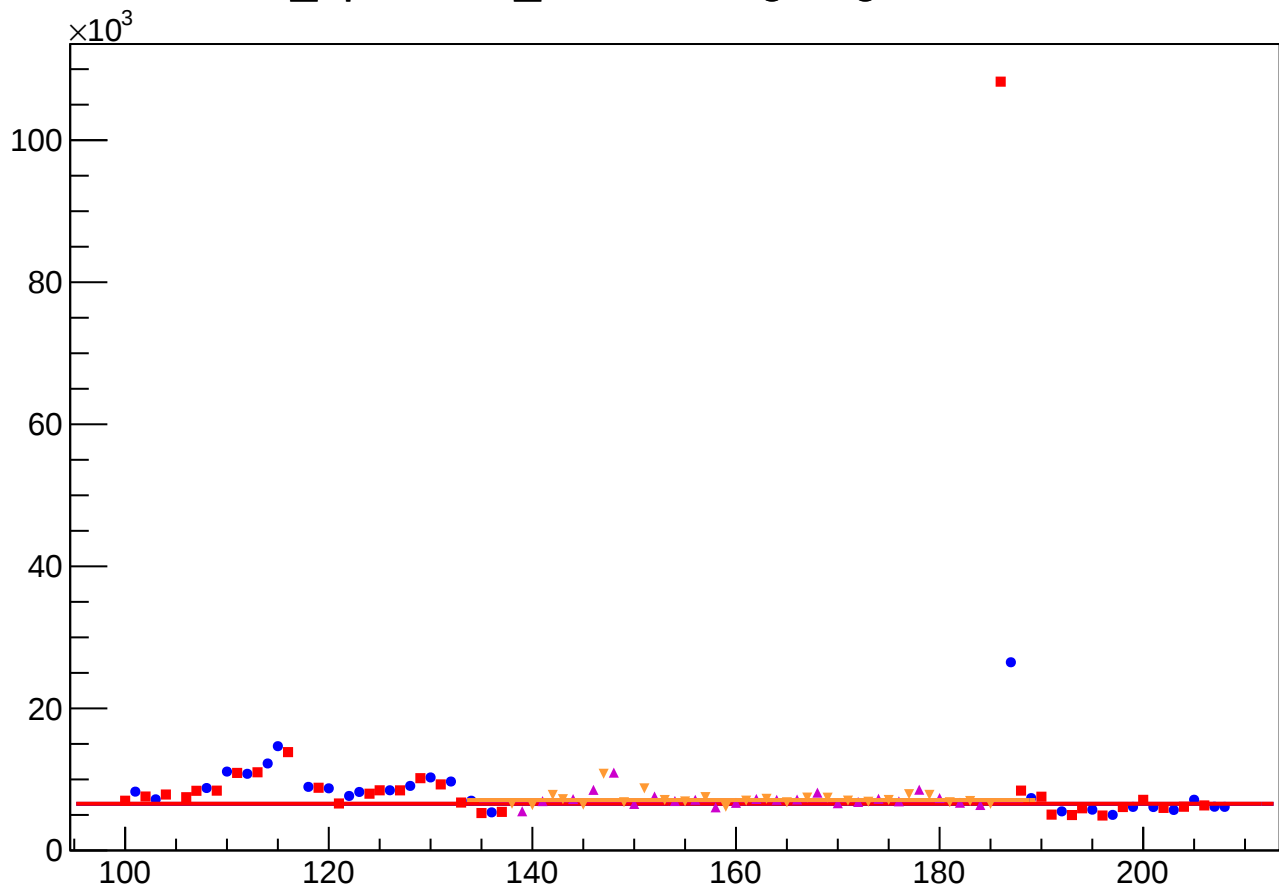
Right: -1.054 ± 1.258 χ^2/NDF : 57.7/58

In: -0.348 ± 1.235 χ^2/NDF : 62.5/50

Out: 0.404 ± 1.215 χ^2/NDF : 56.7/55

All: 0.034 ± 0.866 χ^2/NDF : 119.4/106

diff_bpm4acY_rms vs Slug, Sign Corrected



Right In: 6554.873+/-1.262 χ^2/NDF : 1540259.1/27

Left Out: 7096.350+/-1.179 χ^2/NDF : 381942.1/24

Right Out: 6579.262+/-1.254 χ^2/NDF : 2107452.5/30

Left In: 7047.269+/-1.209 χ^2/NDF : 517433.5/22

Left: 7072.425+/-0.844 χ^2/NDF : 900219.9/47

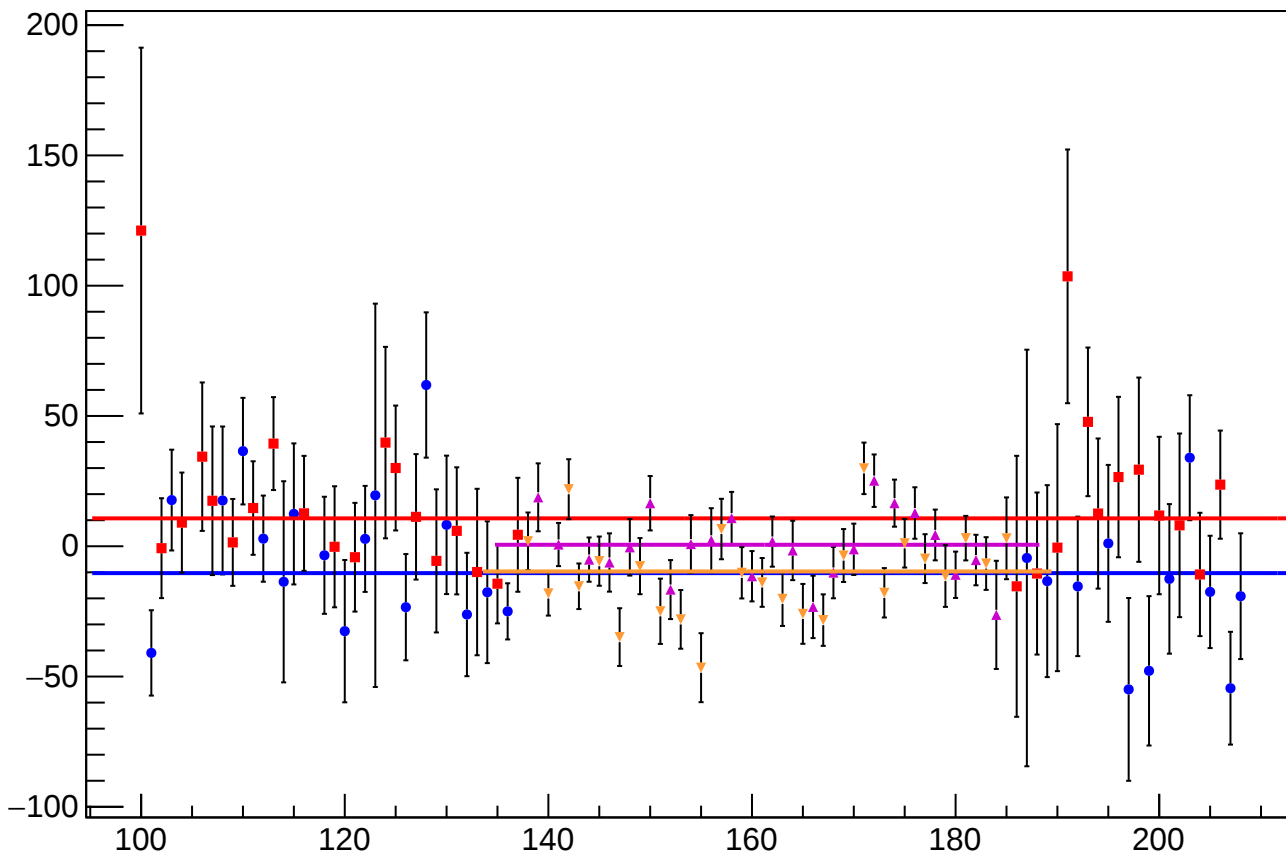
Right: 6567.144+/-0.889 χ^2/NDF : 3647899.6/58

In: 6811.475+/-0.873 χ^2/NDF : 2137083.5/50

Out: 6853.591+/-0.859 χ^2/NDF : 2579647.6/55

All: 6832.873+/-0.612 χ^2/NDF : 4717913.6/100

diff_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -10.312 ± 4.348 χ^2/NDF : 35.8/27

Left Out: -9.670 ± 2.061 χ^2/NDF : 57.9/24

Right Out: 10.705 ± 4.413 χ^2/NDF : 20.0/30

Left In: 0.564 ± 2.144 χ^2/NDF : 29.7/22

Left: -4.755 ± 1.486 χ^2/NDF : 99.5/47

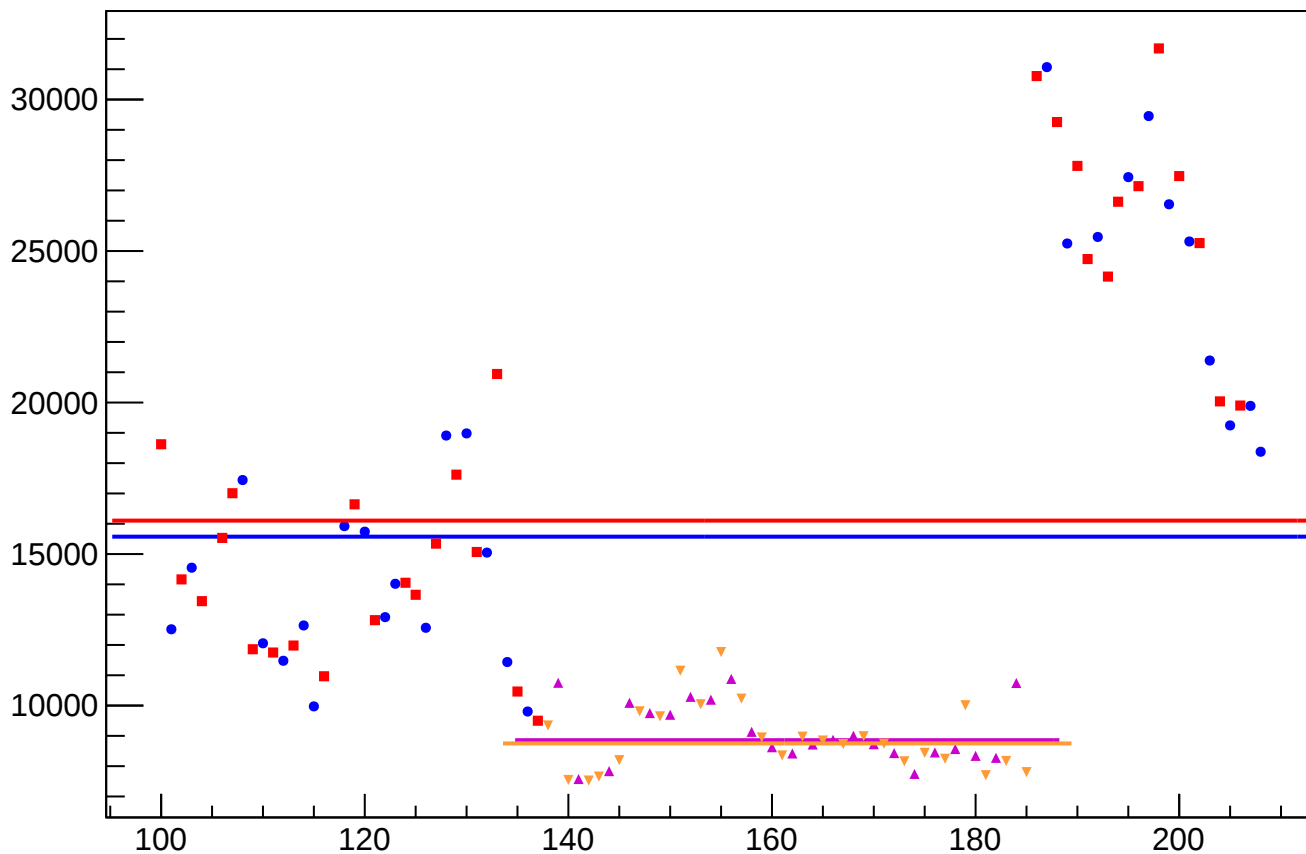
Right: 0.041 ± 3.097 χ^2/NDF : 67.4/58

In: -1.563 ± 1.923 χ^2/NDF : 70.6/50

Out: -6.023 ± 1.867 χ^2/NDF : 95.5/55

All: -3.858 ± 1.339 χ^2/NDF : 168.8/106

diff_bpm4ecX_rms vs Slug, Sign Corrected



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

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

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

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

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

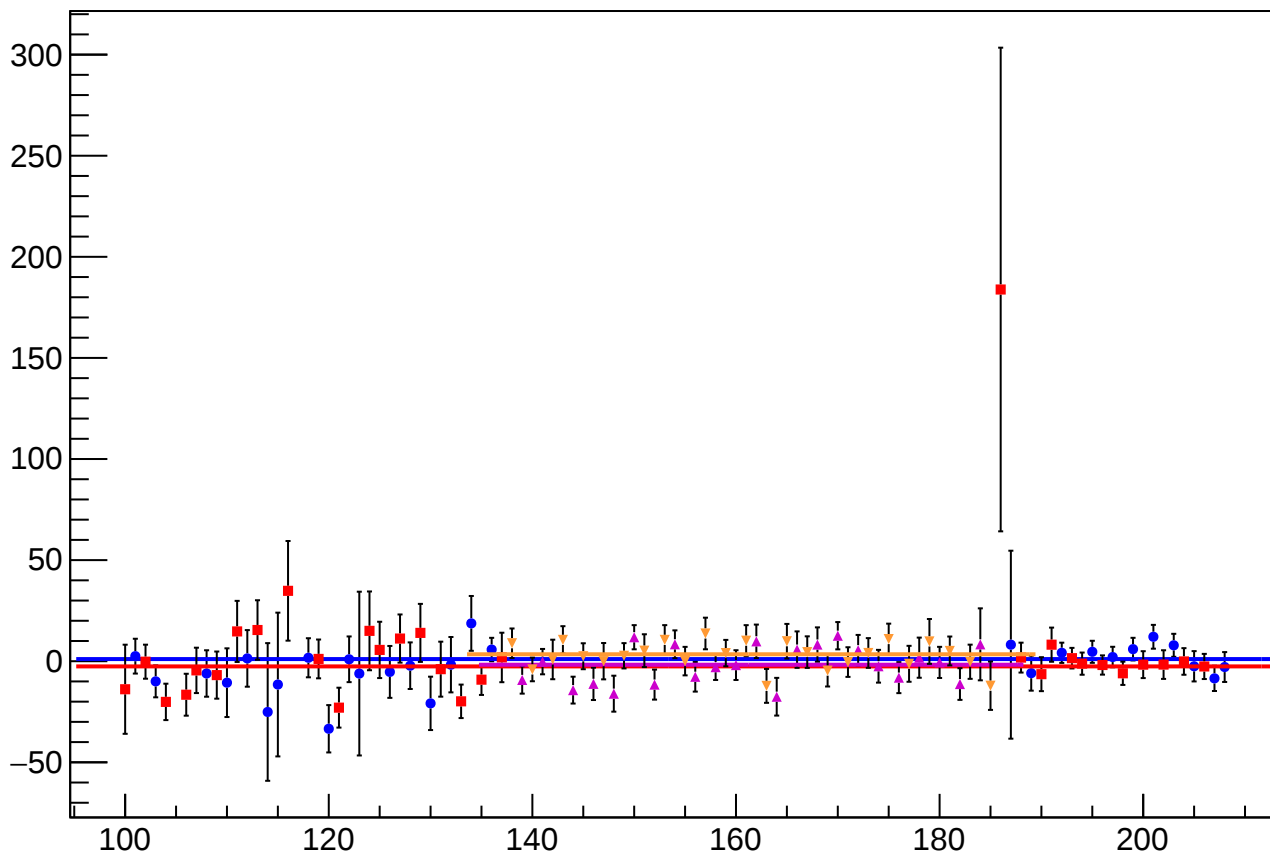
Right: 15834.942 $\pm$ 2.190 χ^2 /NDF: 6499649.7/58

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

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

All: 10117.072 $\pm$ 0.947 χ^2 /NDF: 15711294.1

diff_bpm4ecY_mean vs Slug, Sign Corrected



Right In: 1.060 ± 1.555 $\chi^2/\text{NDF}: 27.8/27$

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

Right Out: -2.567 ± 1.519 $\chi^2/\text{NDF}: 30.6/30$

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

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

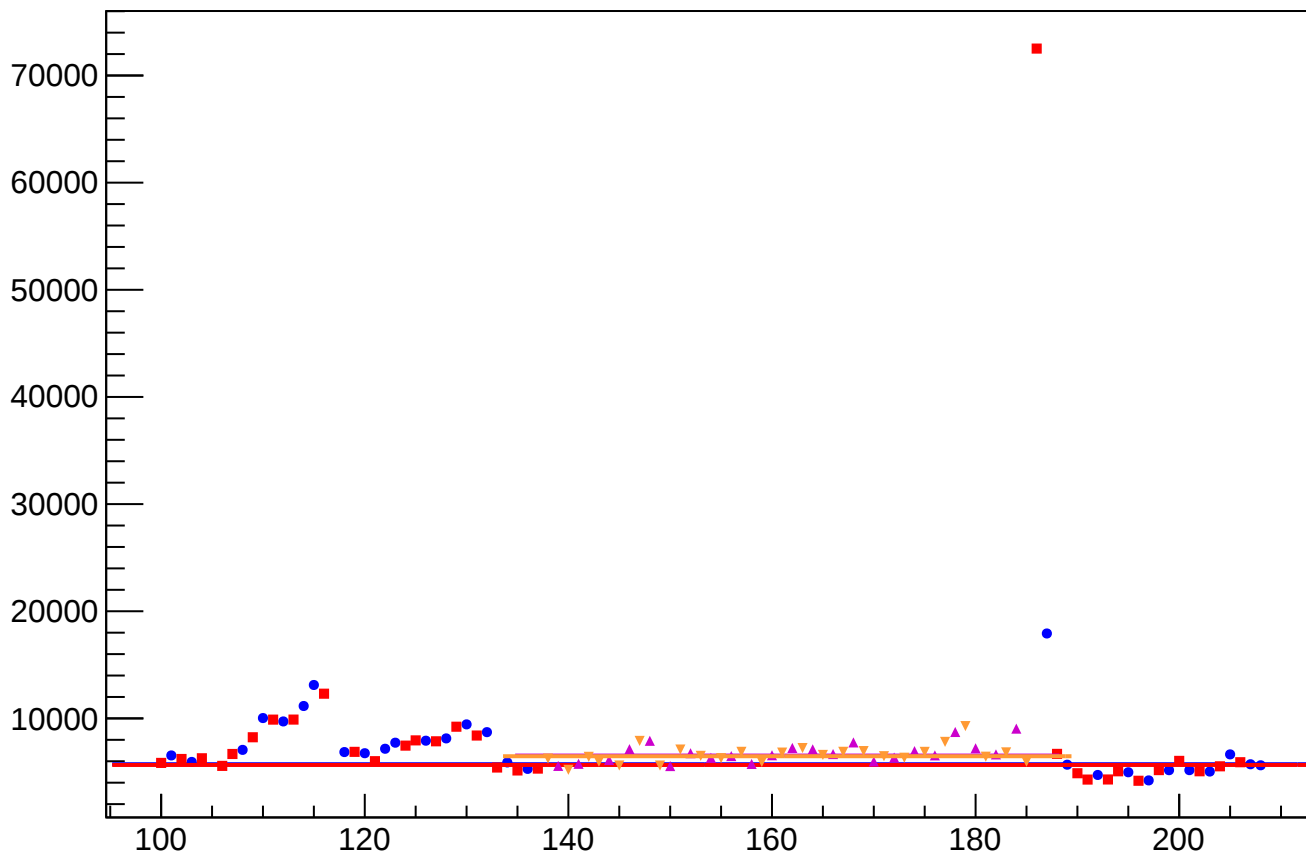
Right: -0.796 ± 1.087 $\chi^2/\text{NDF}: 61.2/58$

In: -0.310 ± 1.110 $\chi^2/\text{NDF}: 63.0/50$

Out: 0.421 ± 1.077 $\chi^2/\text{NDF}: 54.6/55$

All: 0.067 ± 0.773 $\chi^2/\text{NDF}: 117.8/106$

diff_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 5723.193+/-1.100 χ^2/NDF : 1498841.1/27

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

Right Out: 5655.105+/-1.074 χ^2/NDF : 2123595.3/30

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

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

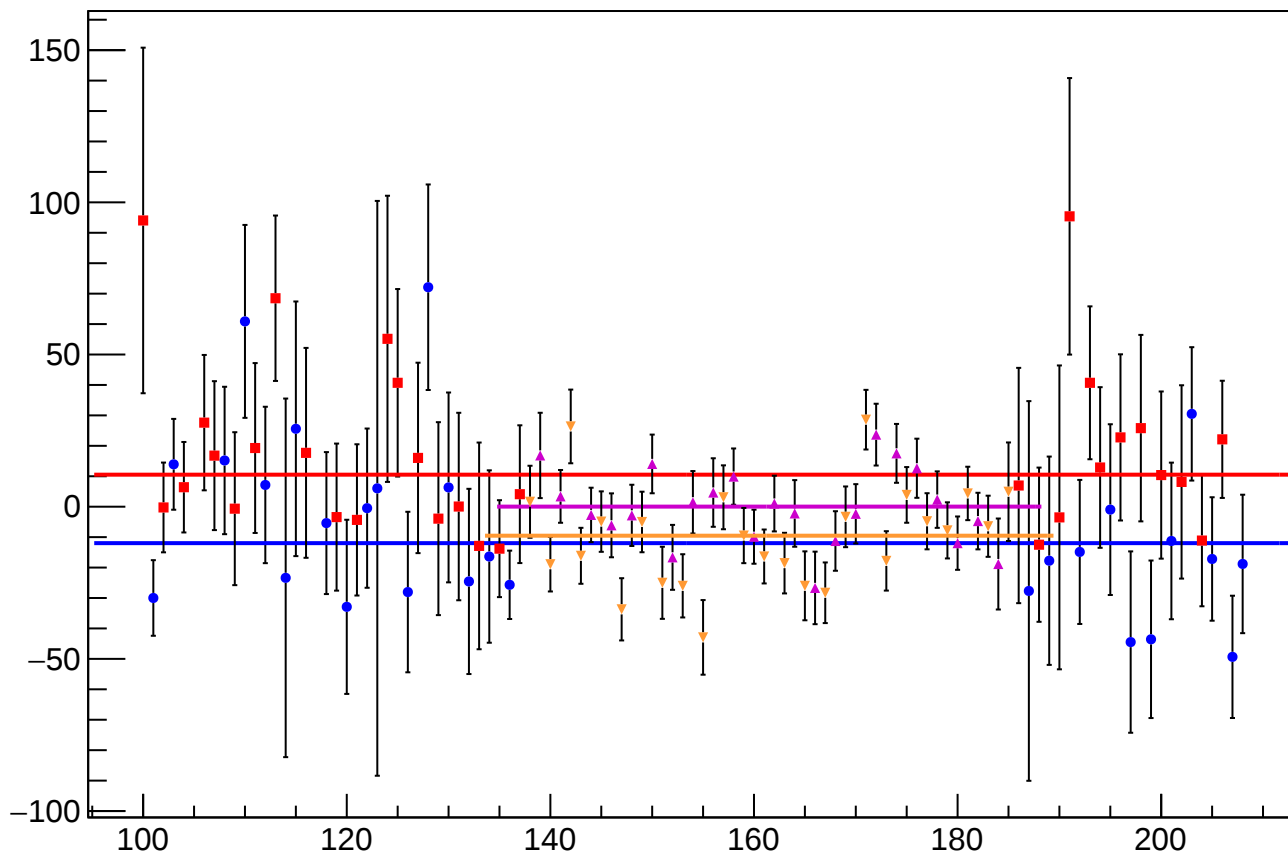
Right: 5688.355+/-0.768 χ^2/NDF : 3624397.9/58

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

Out: 6060.297+/-0.761 χ^2/NDF : 2896470.9/55

All: 6088.832+/-0.547 χ^2/NDF : 5127394.4/100

diff_bpm1X_mean vs Slug, Sign Corrected



Right In: -11.975 ± 4.407 $\chi^2/\text{NDF}: 32.8/27$

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

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

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

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

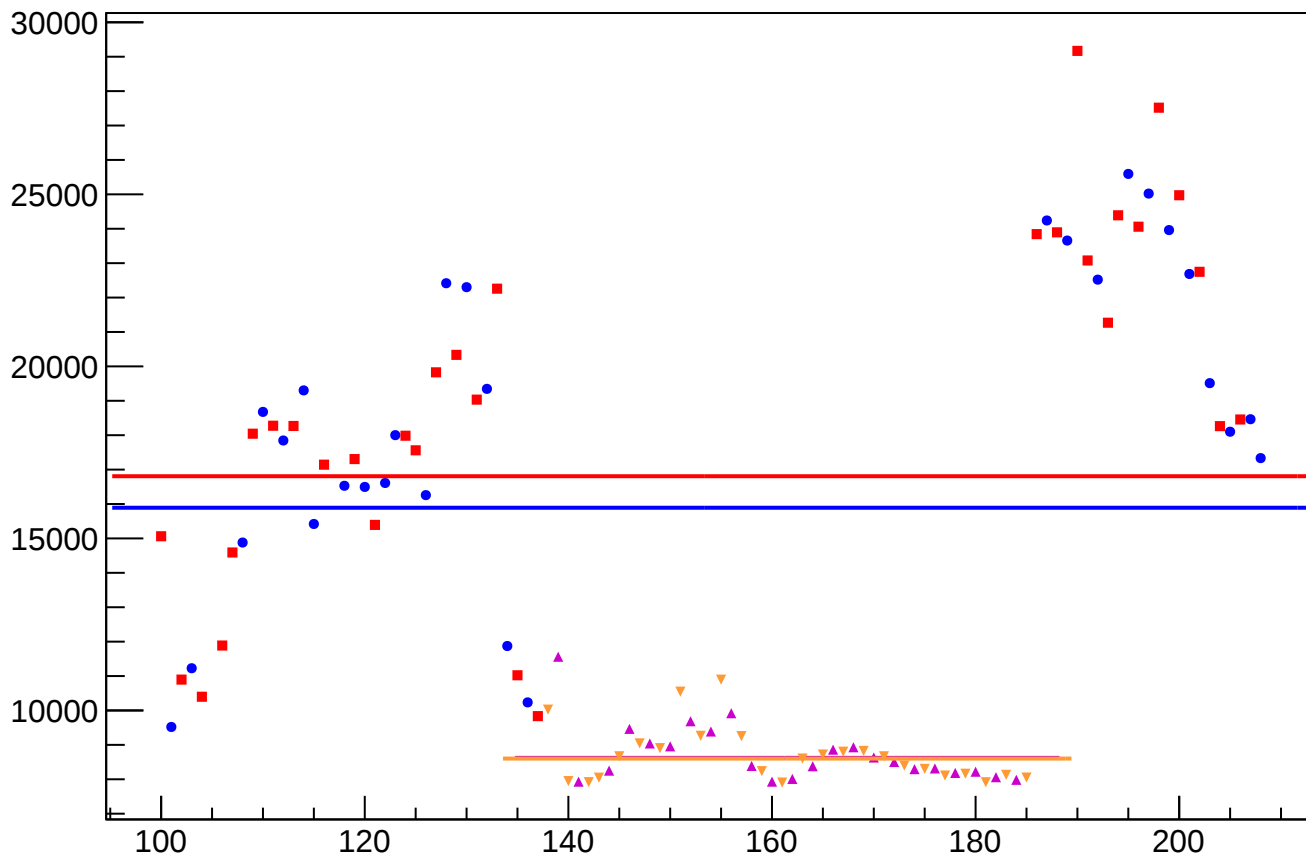
Right: -1.057 ± 3.161 $\chi^2/\text{NDF}: 67.3/58$

In: -2.160 ± 1.881 $\chi^2/\text{NDF}: 68.8/50$

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

All: -4.235 ± 1.316 $\chi^2/\text{NDF}: 168.8/106$

diff_bpm1X_rms vs Slug, Sign Corrected



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

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

Right Out: 16807.548 $\pm$ 3.209 χ^2 /NDF: 2662542.5/30

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

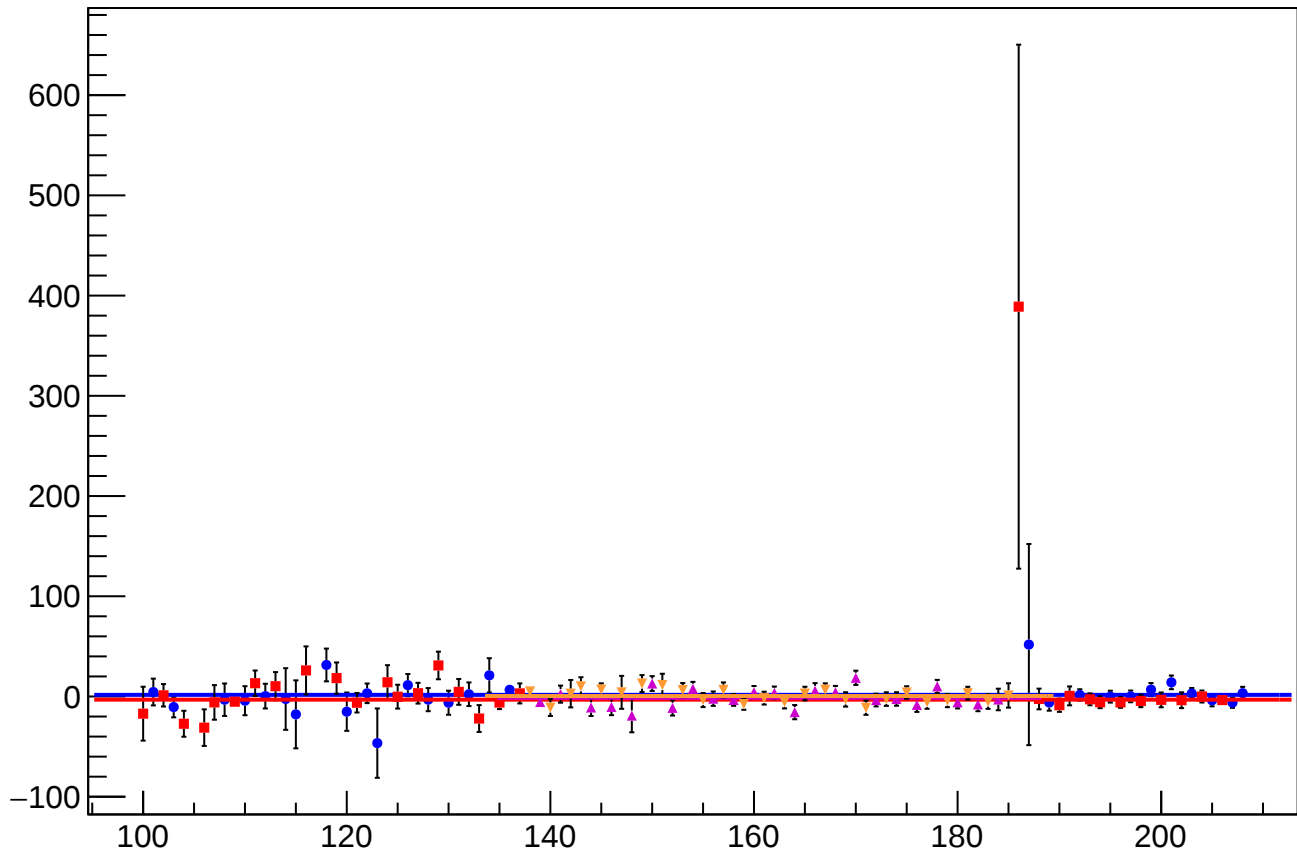
Right: 16336.245 $\pm$ 2.235 χ^2 /NDF: 5377451.1/58

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

Out: 9953.716 $\pm$ 1.302 χ^2 /NDF: 8374060.1/55

All: 9950.152 $\pm$ 0.931 χ^2 /NDF: 15729597.0/1

diff_bpm1Y_mean vs Slug, Sign Corrected



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

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

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

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

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

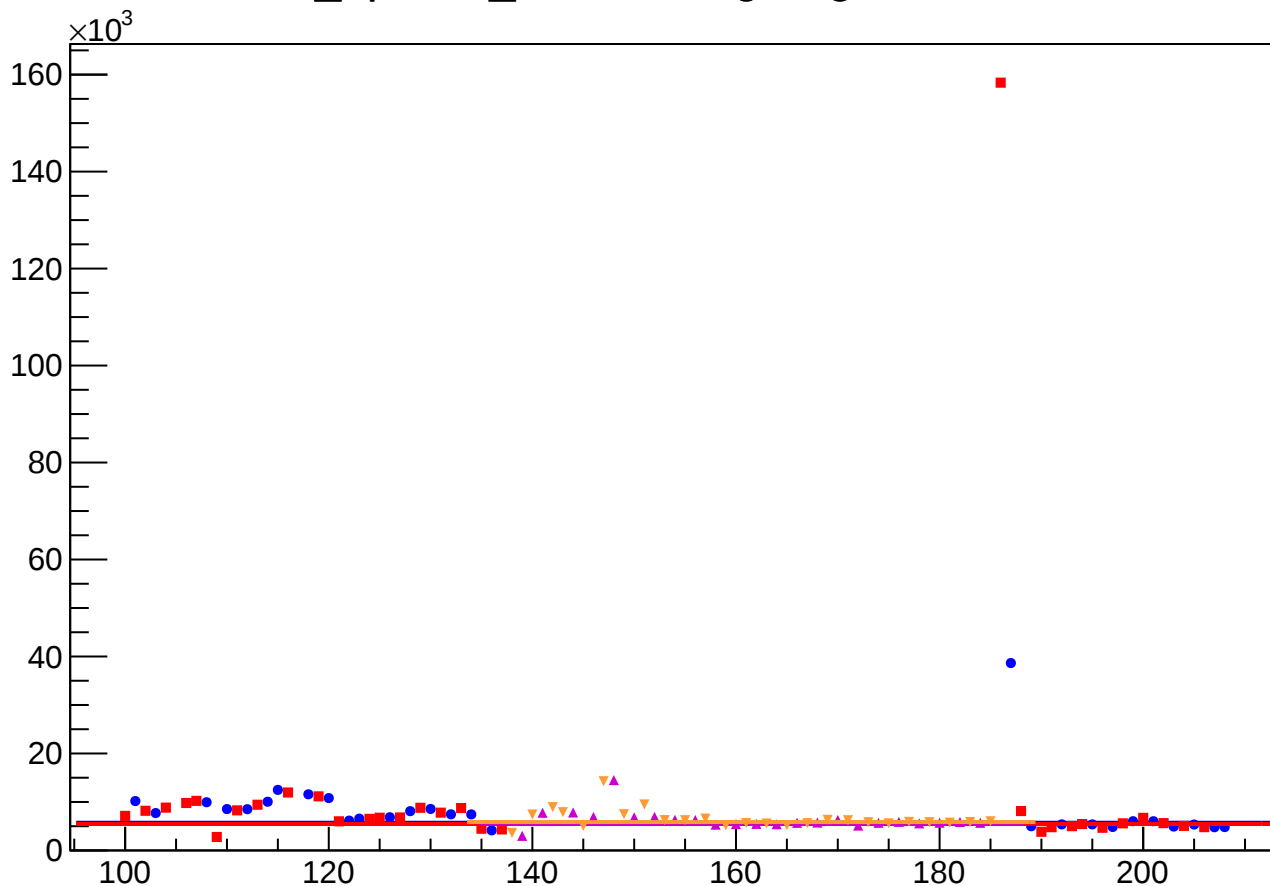
Right: -0.841 ± 1.096 $\chi^2/\text{NDF}: 52.1/58$

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

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

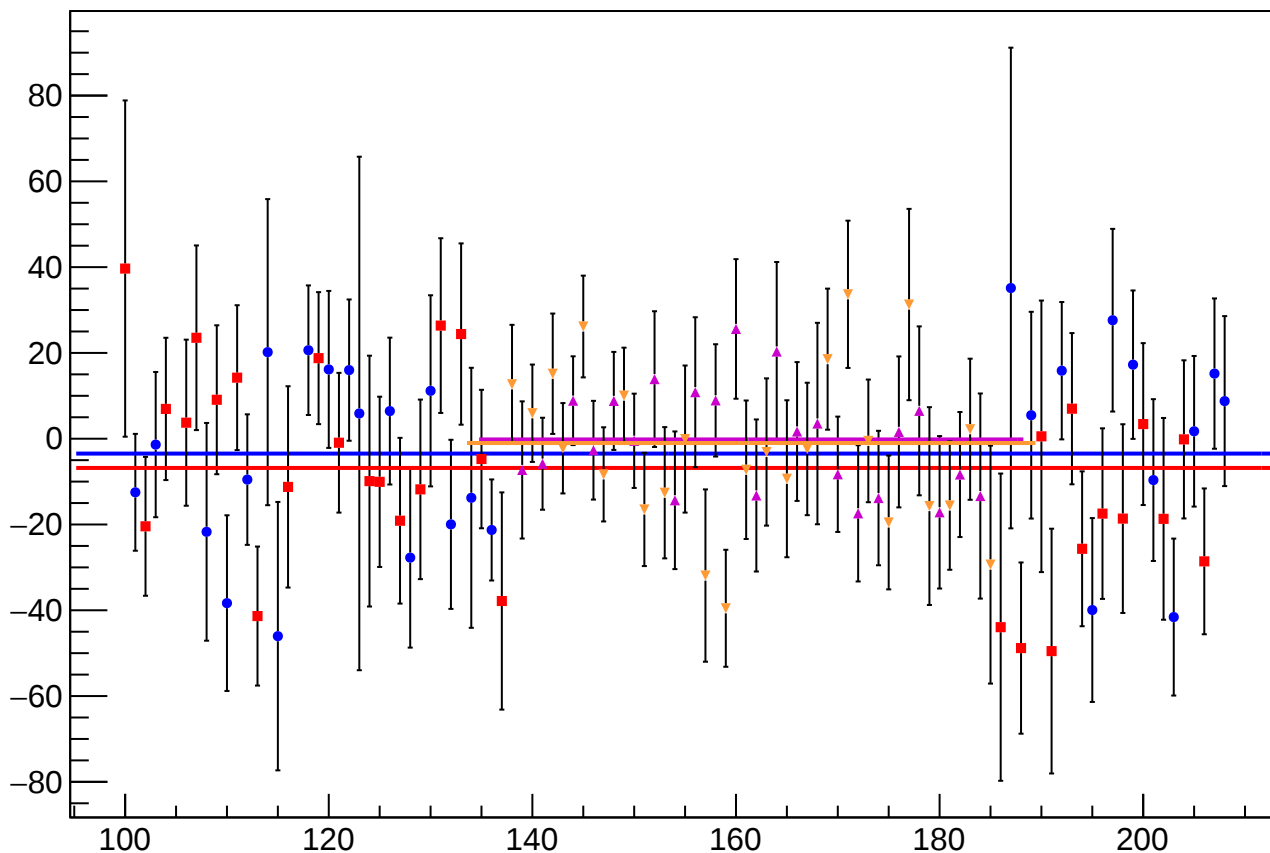
All: -0.609 ± 0.738 $\chi^2/\text{NDF}: 105.6/106$

diff_bpm1Y_rms vs Slug, Sign Corrected

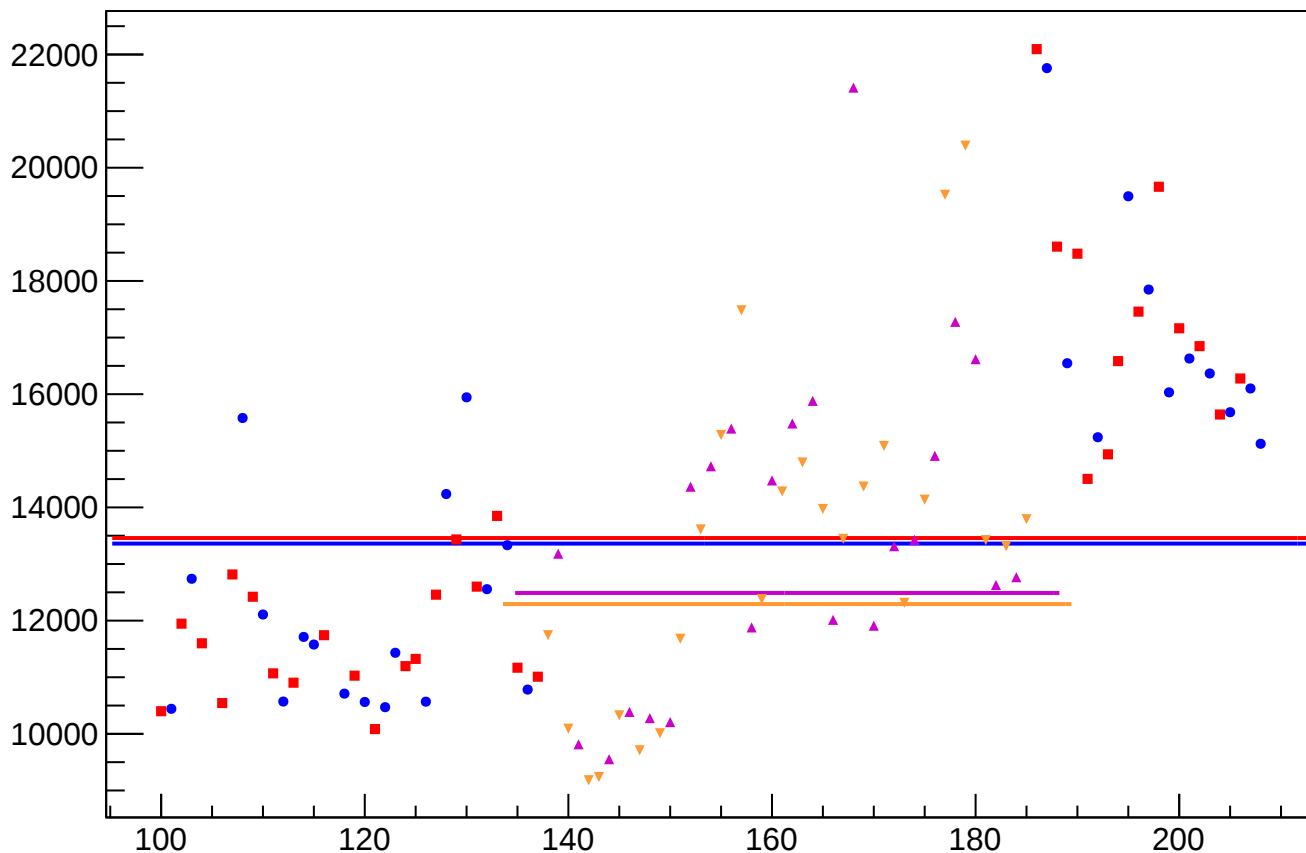


Right In: 5717.465 $\pm$ 1.115	χ^2/NDF : 2109510.1/27	Left: 5726.555 $\pm$ 0.706	χ^2/NDF : 3815425.5/47
Left Out: 5858.642 $\pm$ 1.004	χ^2/NDF : 1691344.1/24	Right: 5583.087 $\pm$ 0.775	χ^2/NDF : 5570722.7/58
Right Out: 5457.647 $\pm$ 1.077	χ^2/NDF : 3433122.2/30	In: 5650.305 $\pm$ 0.742	χ^2/NDF : 4205776.0/50
Left In: 5596.879 $\pm$ 0.994	χ^2/NDF : 2089750.1/22	Out: 5672.310 $\pm$ 0.734	χ^2/NDF : 5198657.0/55
		All: 5661.424 $\pm$ 0.522	χ^2/NDF : 9404877.4/10

diff_bpm11X_mean vs Slug, Sign Corrected



diff_bpm11X_rms vs Slug, Sign Corrected



Right In: 13360.713+/-2.542

χ^2/NDF : 1171367.3/27

Left: 12386.599+/-1.501

χ^2/NDF : 2861298.1/47

Left Out: 12292.583+/-2.080

χ^2/NDF : 1502548.3/24

Right: 13410.413+/-1.785

χ^2/NDF : 2438985.5/58

Right Out: 13458.770+/-2.508

χ^2/NDF : 1266864.3/30

In: 12856.059+/-1.650

χ^2/NDF : 2593920.4/50

Out: 12767.853+/-1.601

χ^2/NDF : 2897522.8/55

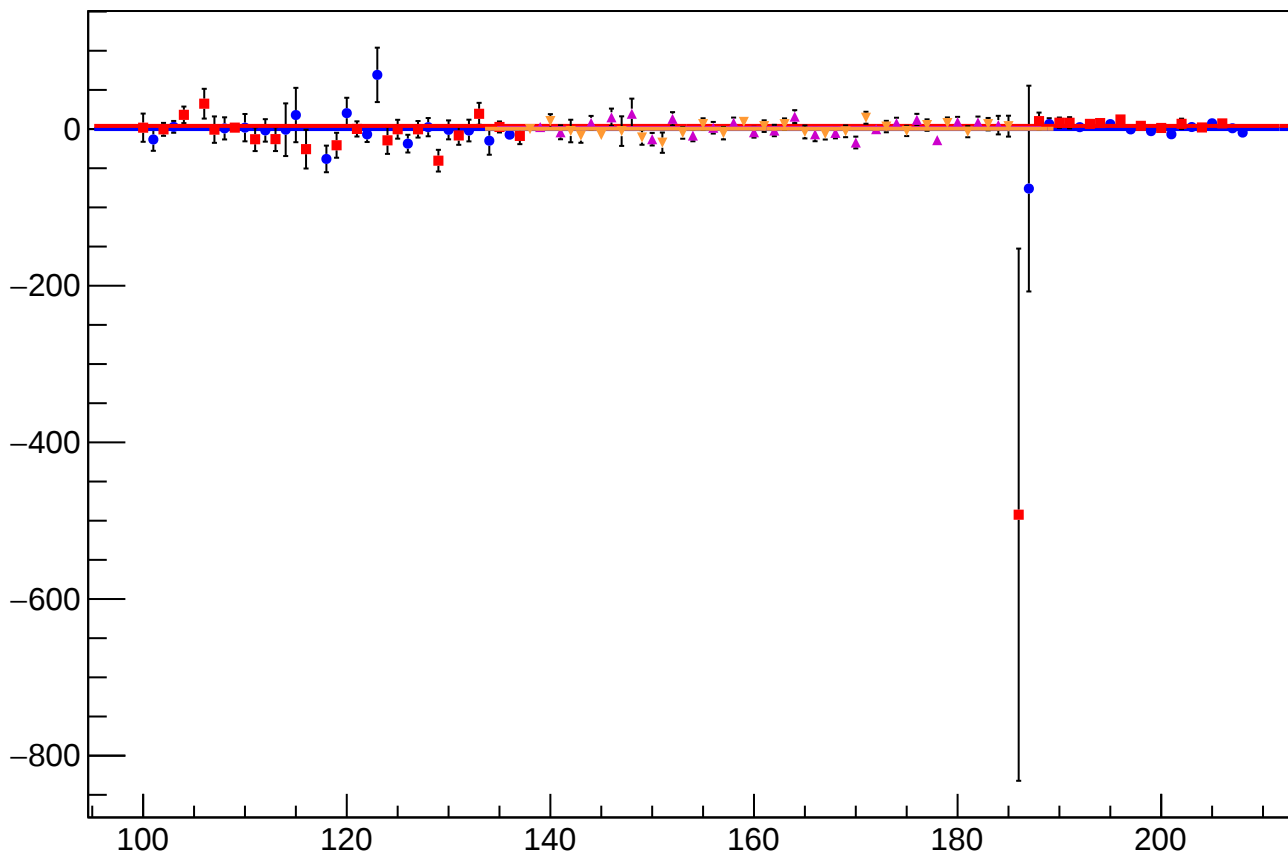
Left In: 12488.821+/-2.169

χ^2/NDF : 1354485.4/22

All: 12810.625+/-1.149

χ^2/NDF : 5492915.0/101

diff_bpm11Y_mean vs Slug, Sign Corrected



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

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

Right Out: 4.047 $\pm$ 1.346 χ^2 /NDF: 34.3/30

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

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

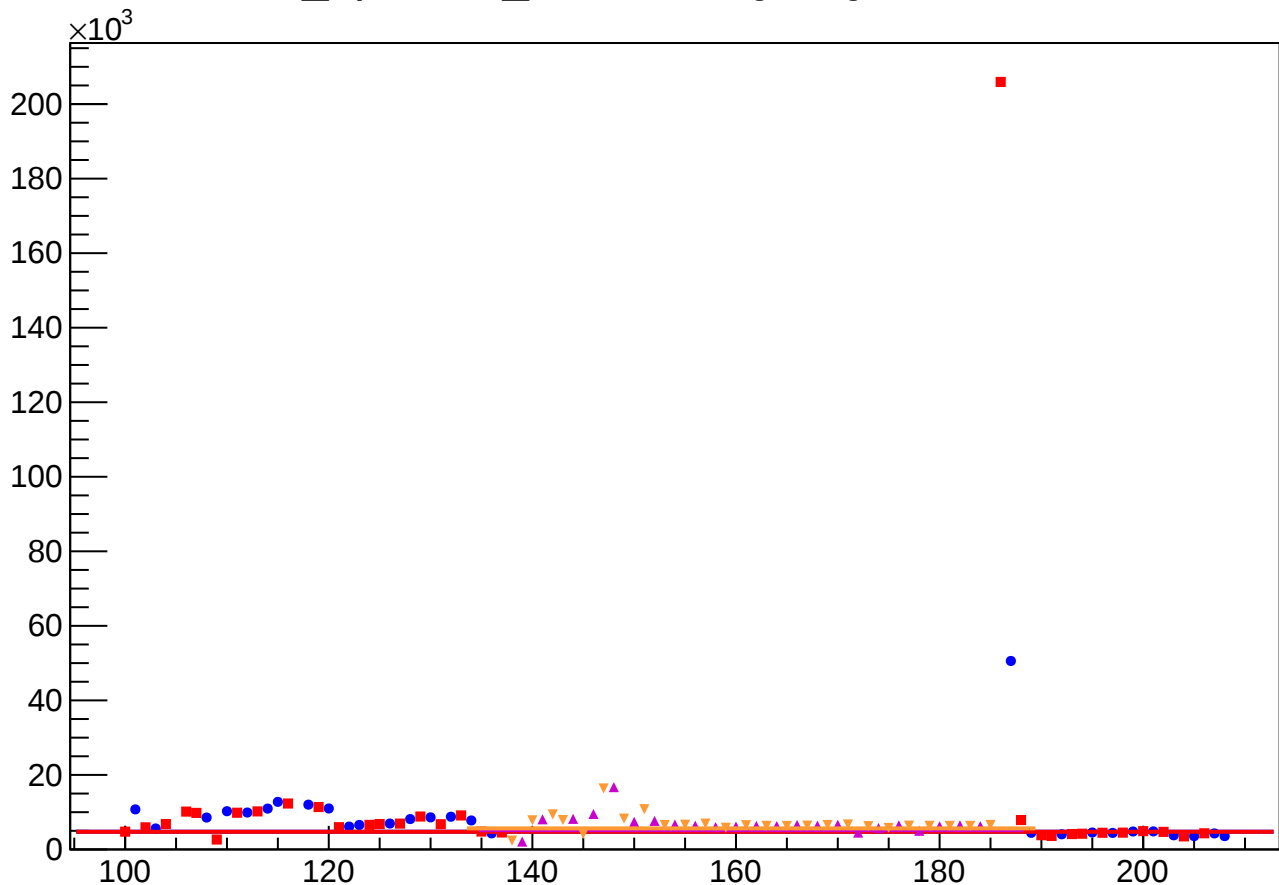
Right: 2.029 $\pm$ 0.951 χ^2 /NDF: 65.8/58

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

Out: 2.345 $\pm$ 0.982 χ^2 /NDF:57.0/55

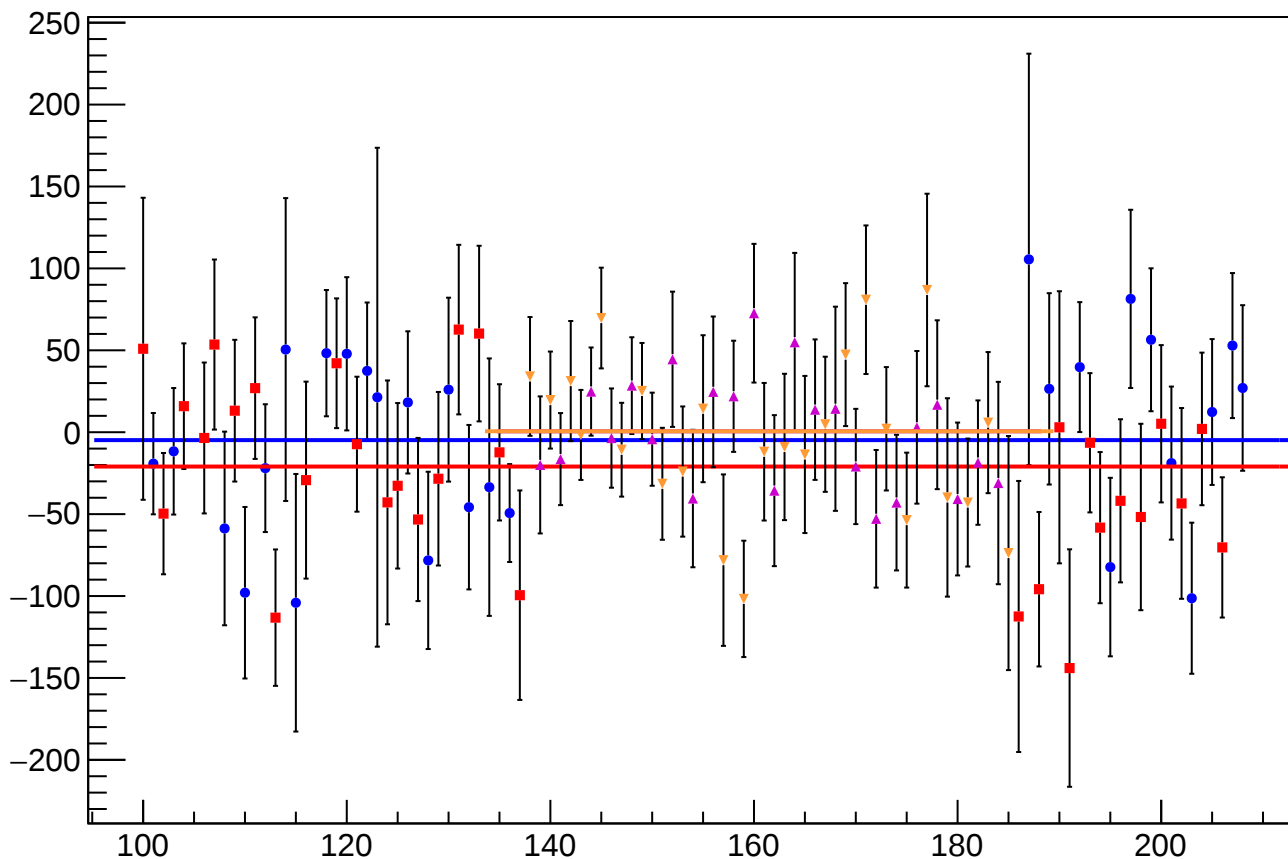
All: 1.471 $\pm$ 0.688 χ^2 /NDF: 120.0/106

diff_bpm11Y_rms vs Slug, Sign Corrected



Right In: 4760.076 $\pm$ 0.951	χ^2/NDF : 3177195.7/27	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: 4751.489 $\pm$ 0.673	χ^2/NDF : 6898170.7/58
Right Out: 4742.883 $\pm$ 0.952	χ^2/NDF : 3720811.6/30	In: 4964.041 $\pm$ 0.682	χ^2/NDF : 8622194.8/50
Left In: 5180.743 $\pm$ 0.980	χ^2/NDF : 5350053.6/22	Out: 5170.167 $\pm$ 0.694	χ^2/NDF : 8275553.8/55
		All: 5065.343 $\pm$ 0.487	χ^2/NDF : 16942602.8/100

diff_bpm12X_mean vs Slug, Sign Corrected



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

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

Right Out: -20.954 ± 8.839 χ^2/NDF : 30.8/30

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

Left: 0.572 ± 5.549 χ^2/NDF : 45.3/47

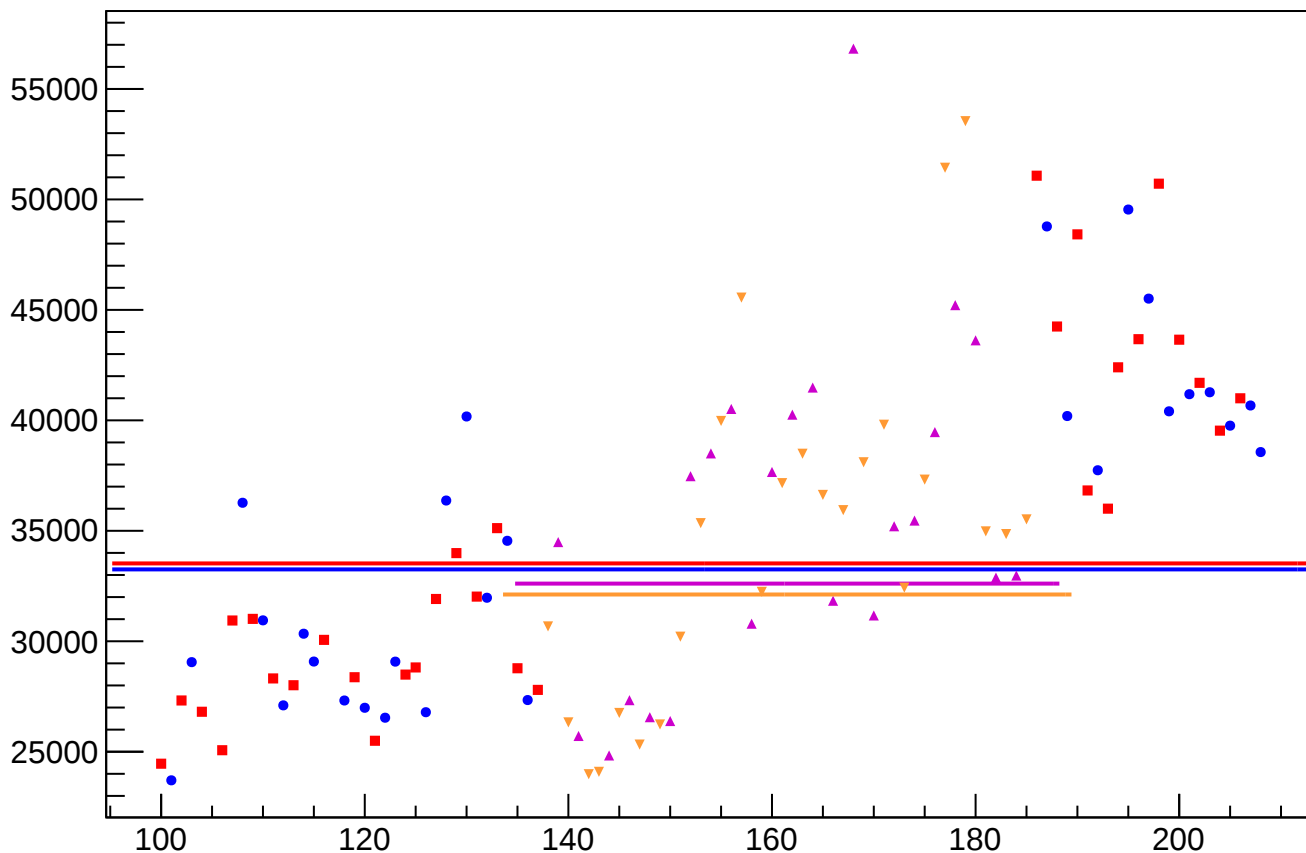
Right: -13.001 ± 6.293 χ^2/NDF : 64.0/58

In: -1.829 ± 5.974 χ^2/NDF : 46.1/50

Out: -8.699 ± 5.802 χ^2/NDF : 65.1/55

All: -5.365 ± 4.162 χ^2/NDF : 111.9/106

diff_bpm12X_rms vs Slug, Sign Corrected



Right In: 33252.798+/-6.338

χ^2/NDF : 1236586.6/27

Left Out: 32117.184+/-5.438

χ^2/NDF : 1536740.0/24

Right Out: 33523.558+/-6.250

χ^2/NDF : 1302018.7/30

Left In: 32610.108+/-5.667

χ^2/NDF : 1398475.8/22

Left: 32353.483+/-3.924

χ^2/NDF : 2939154.5/47

Right: 33390.070+/-4.450

χ^2/NDF : 2539530.7/58

In: 32895.656+/-4.225

χ^2/NDF : 2640776.6/50

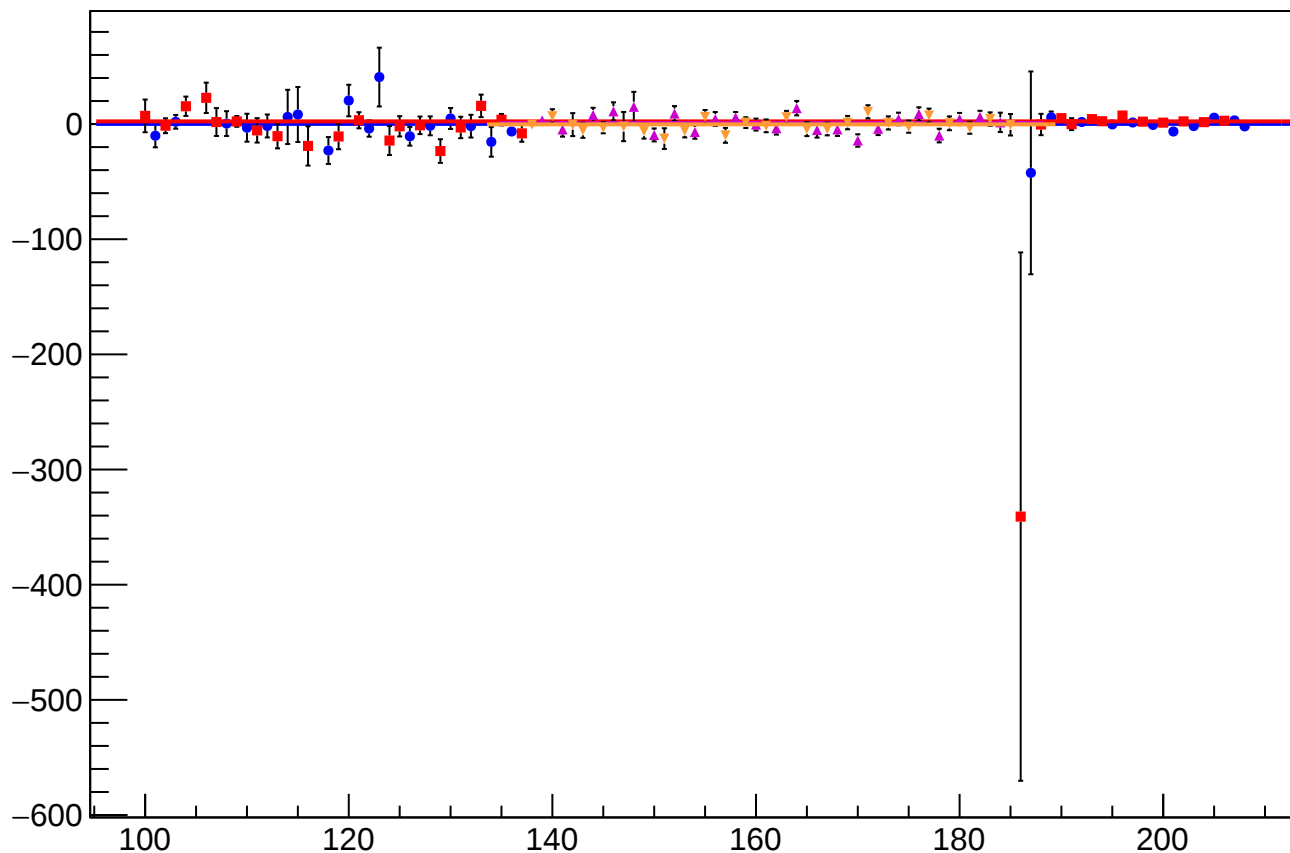
Out: 32723.152+/-4.102

χ^2/NDF : 2867576.7/55

All: 32806.876+/-2.943

χ^2/NDF : 5509211.5/131

diff_bpm12Y_mean vs Slug, Sign Corrected



Right In: 0.143 ± 0.820 $\chi^2/\text{NDF}: 32.6/27$

Left Out: -0.255 ± 1.173 $\chi^2/\text{NDF}: 18.0/24$

Right Out: 2.324 ± 0.886 $\chi^2/\text{NDF}: 29.2/30$

Left In: 0.925 ± 1.154 $\chi^2/\text{NDF}: 36.1/22$

Left: 0.345 ± 0.822 $\chi^2/\text{NDF}: 54.7/47$

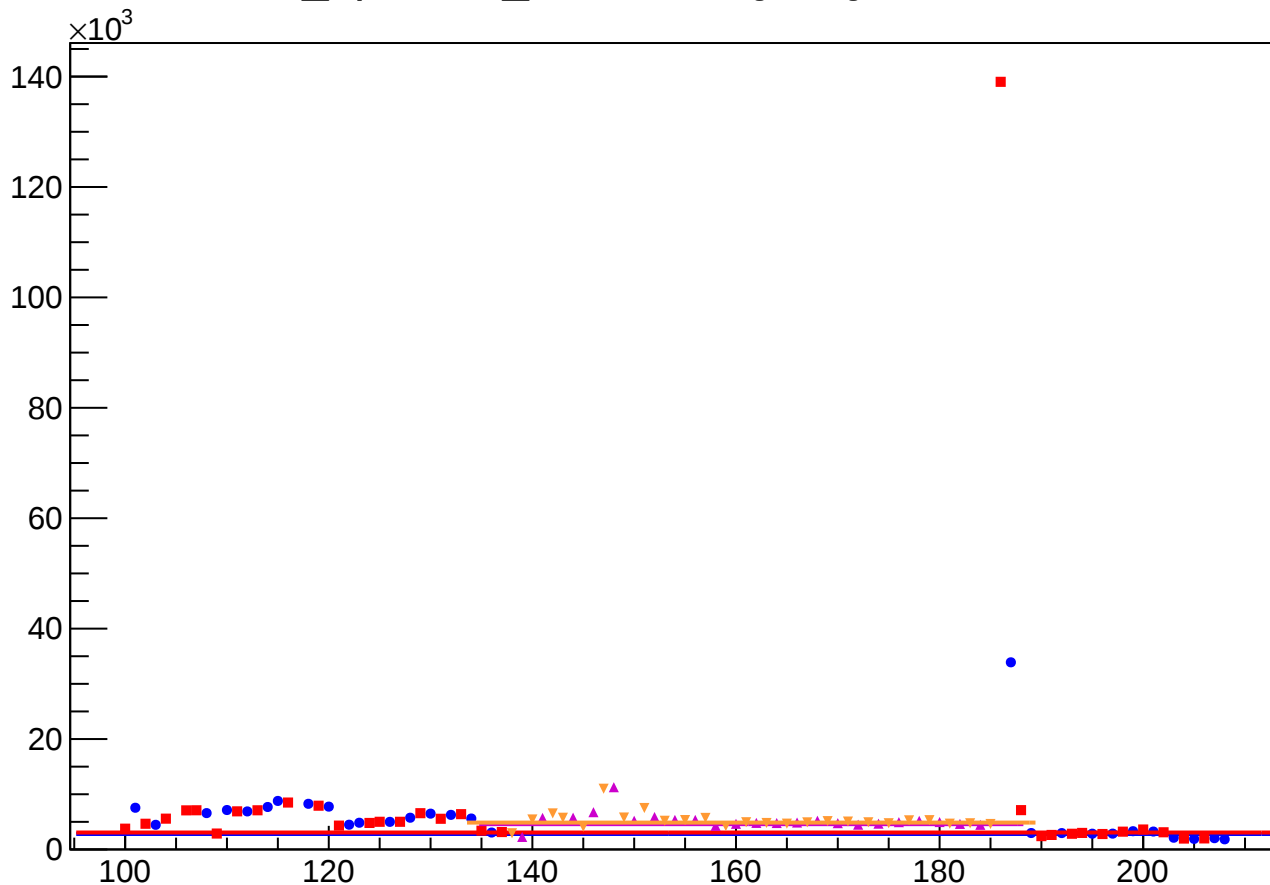
Right: 1.149 ± 0.602 $\chi^2/\text{NDF}: 65.1/58$

In: 0.406 ± 0.668 $\chi^2/\text{NDF}: 69.0/50$

Out: 1.386 ± 0.707 $\chi^2/\text{NDF}: 50.3/55$

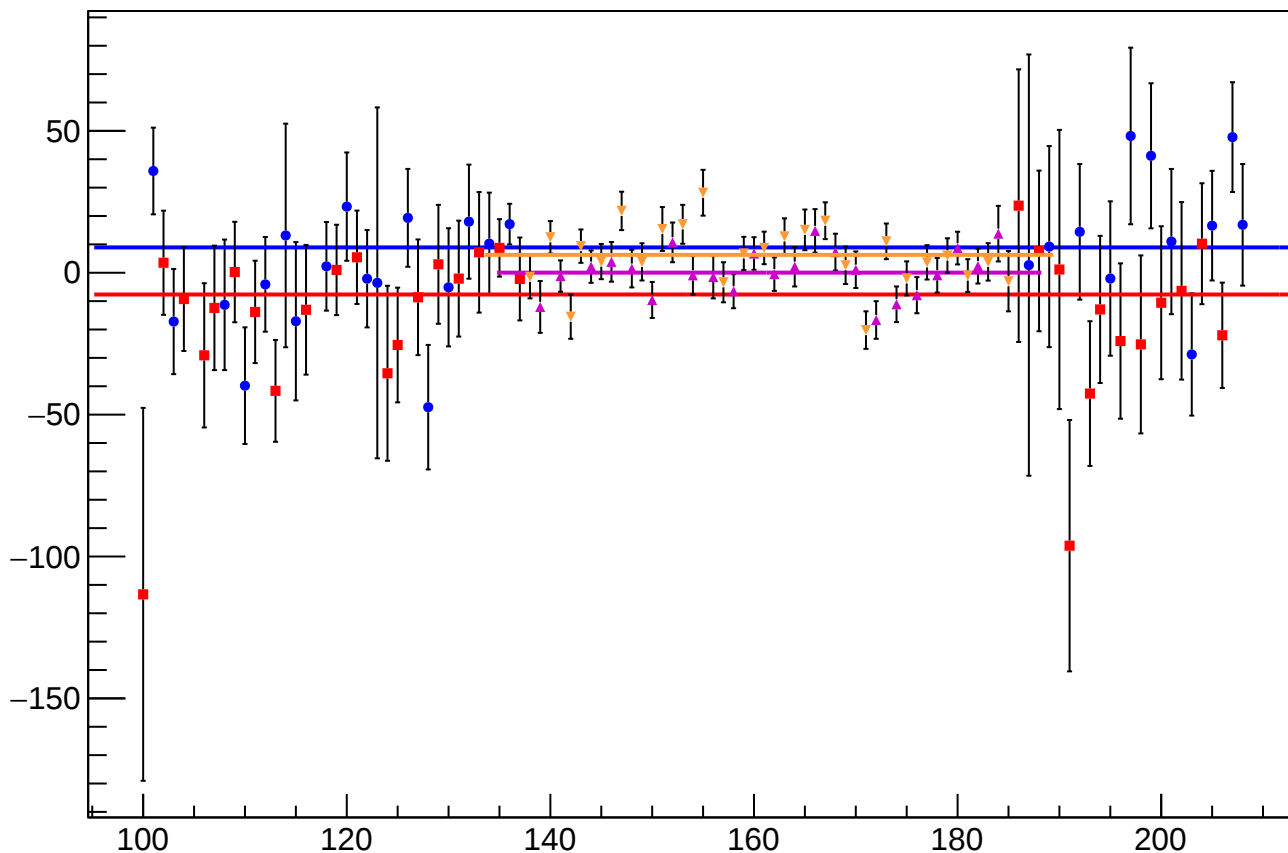
All: 0.868 ± 0.486 $\chi^2/\text{NDF}: 120.3/106$

diff_bpm12Y_rms vs Slug, Sign Corrected



Right In: 2801.507 $\pm$ 0.580	χ^2/NDF : 4939657.0/27	Left: 4722.017 $\pm$ 0.582	χ^2/NDF : 4049906.1/47
Left Out: 4866.528 $\pm$ 0.829	χ^2/NDF : 1511486.2/24	Right: 2925.184 $\pm$ 0.426	χ^2/NDF : 10009711.4/58
Right Out: 3069.689 $\pm$ 0.627	χ^2/NDF : 4971401.6/30	In: 3399.162 $\pm$ 0.473	χ^2/NDF : 10583734.2/50
Left In: 4582.193 $\pm$ 0.816	χ^2/NDF : 2478681.0/22	Out: 3722.864 $\pm$ 0.500	χ^2/NDF : 9470570.8/55
		All: 3551.897 $\pm$ 0.343	χ^2/NDF : 20275646.6/100

diff_bpm16X_mean vs Slug, Sign Corrected



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

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

Right Out: -7.658 ± 3.741 $\chi^2/\text{NDF}: 22.4/30$

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

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

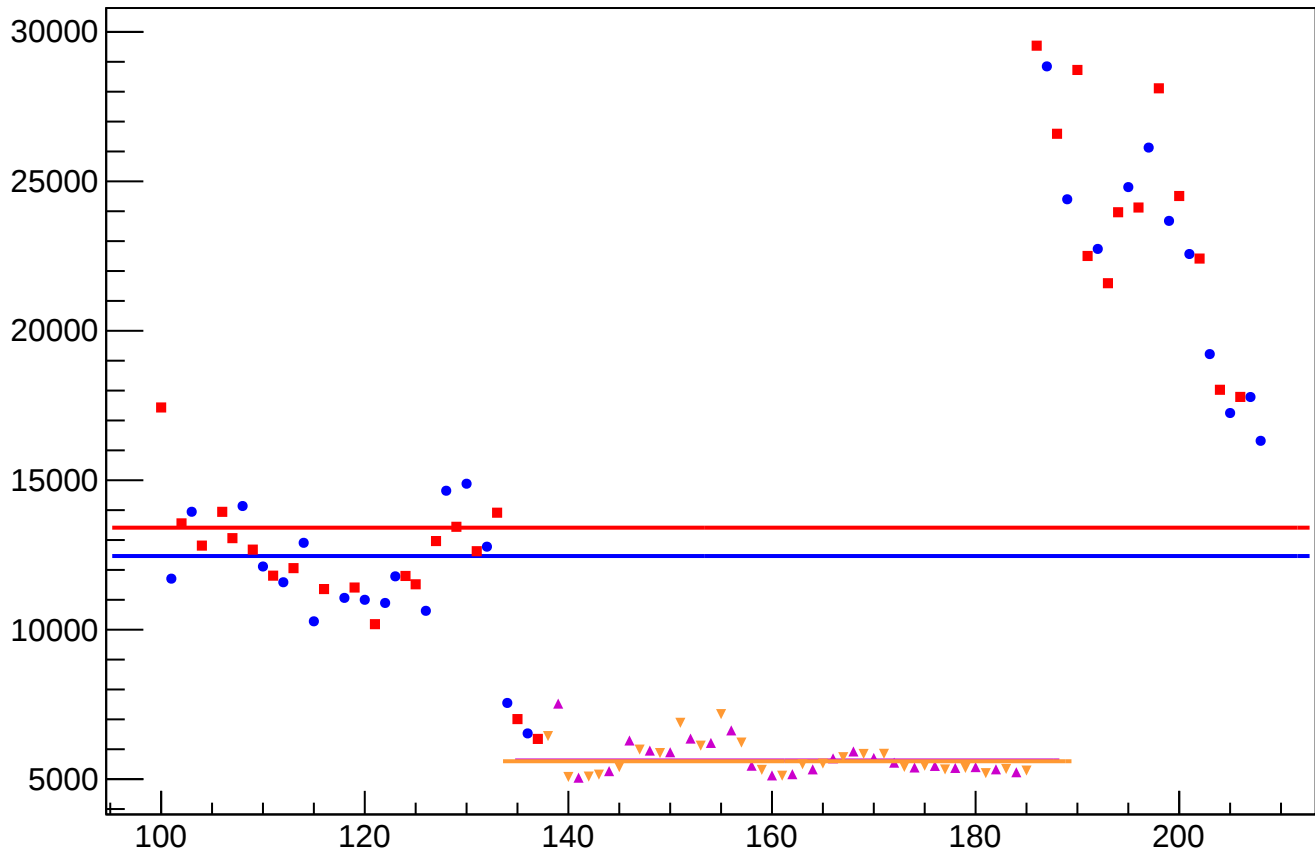
Right: 1.006 ± 2.585 $\chi^2/\text{NDF}: 66.6/58$

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

Out: 4.772 ± 1.239 $\chi^2/\text{NDF}: 91.5/55$

All: 3.012 ± 0.886 $\chi^2/\text{NDF}: 165.0/106$

diff_bpm16X_rms vs Slug, Sign Corrected



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

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

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

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

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

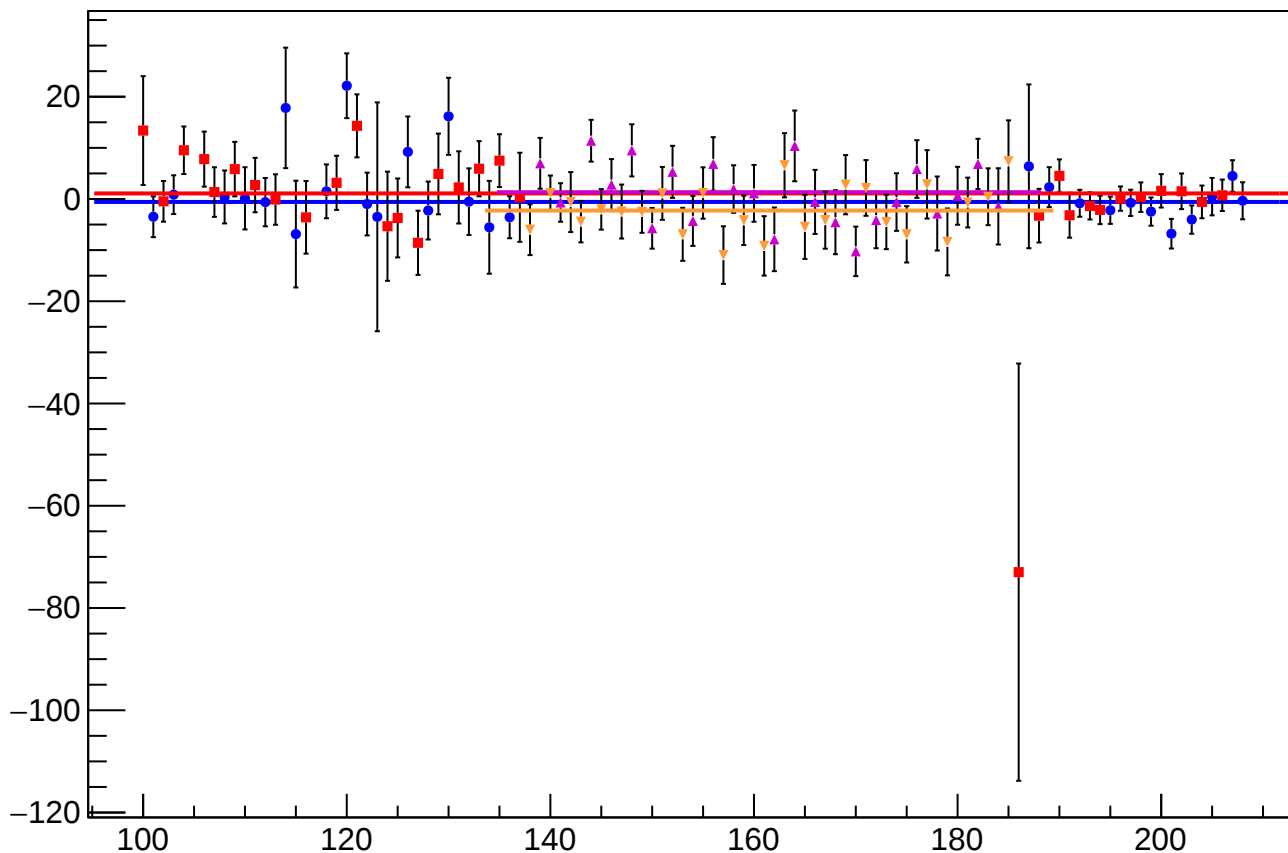
Right: 12917.745 $\pm$ 1.828 χ^2 /NDF: 8867739.5/58

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

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

All: 6470.516 $\pm$ 0.627 χ^2 /NDF: 23518697.0/112

diff_bpm16Y_mean vs Slug, Sign Corrected



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

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

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

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

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

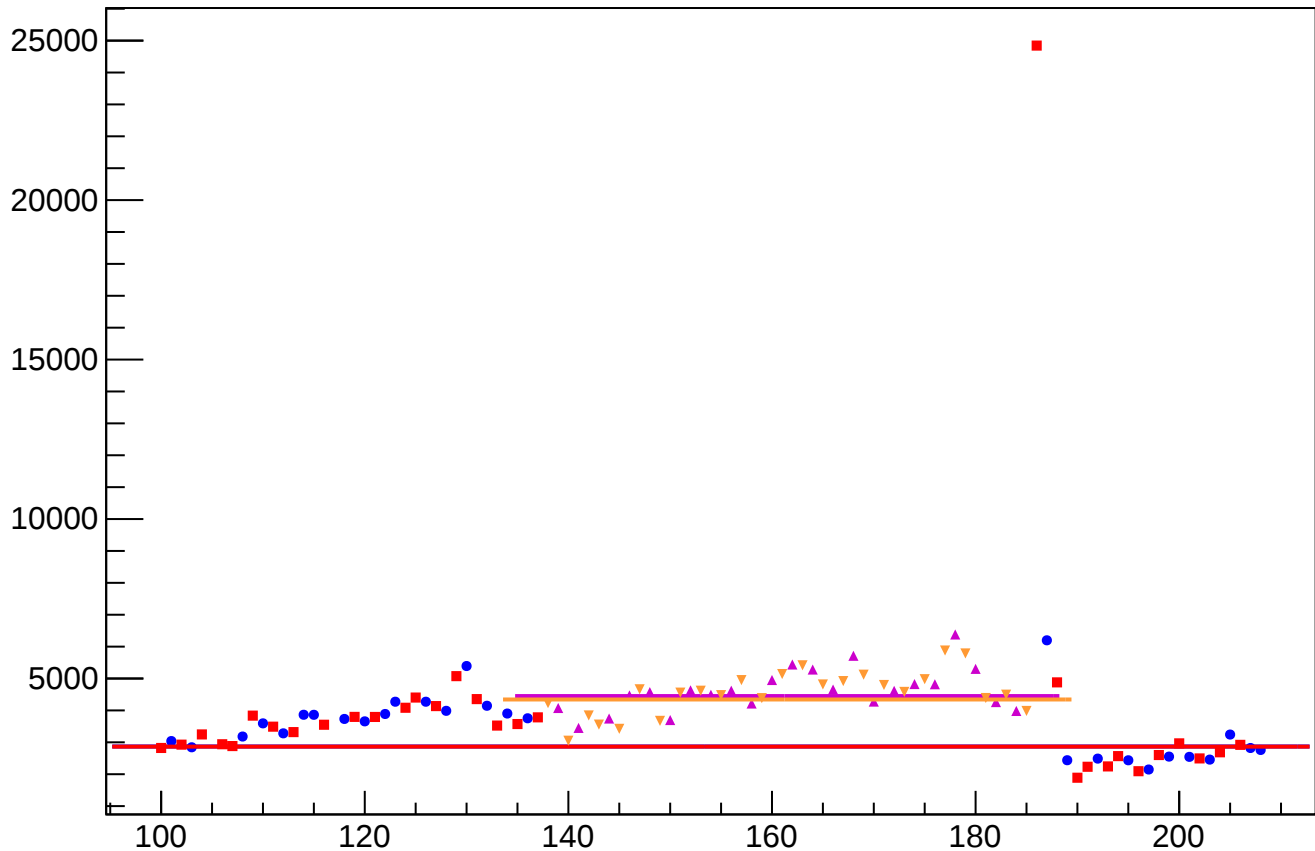
Right: 0.267 ± 0.547 χ^2/NDF : 64.3/58

In: 0.071 ± 0.632 χ^2/NDF : 67.6/50

Out: -0.107 ± 0.616 χ^2/NDF : 49.3/55

All: -0.020 ± 0.441 χ^2/NDF : 117.0/106

diff_bpm16Y_rms vs Slug, Sign Corrected



Right In: 2869.257+/-0.550

χ^2/NDF : 1294948.2/27

Left Out: 4342.635+/-0.728

χ^2/NDF : 993035.5/24

Right Out: 2864.548+/-0.543

χ^2/NDF : 2264234.5/30

Left In: 4450.007+/-0.765

χ^2/NDF : 693229.8/22

Left: 4393.686+/-0.528

χ^2/NDF : 1696596.0/47

Right: 2866.874+/-0.387

χ^2/NDF : 3559219.9/58

In: 3407.747+/-0.447

χ^2/NDF : 4802719.7/50

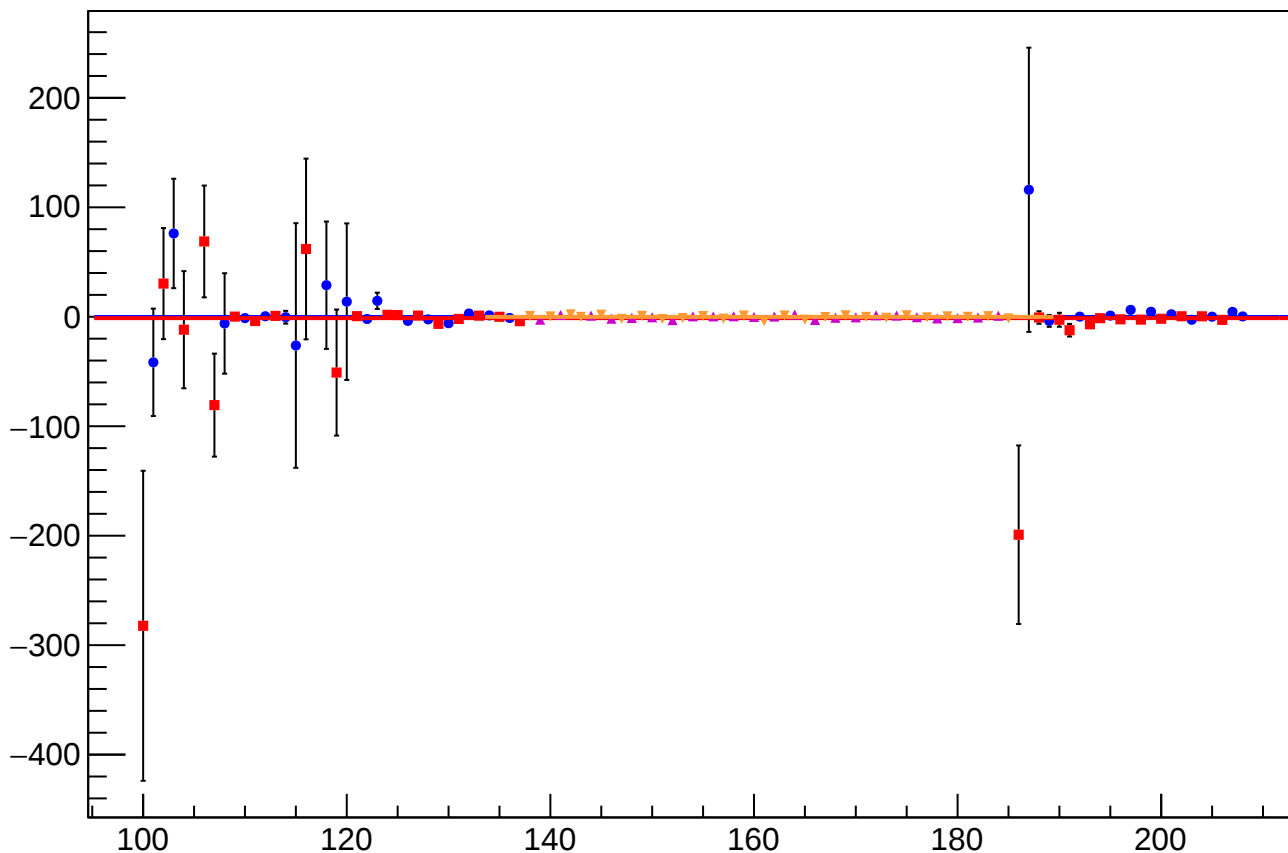
Out: 3393.070+/-0.436

χ^2/NDF : 5902471.6/55

All: 3400.226+/-0.312

χ^2/NDF : 10705744.8/100

diff_bpm1p02bX_mean vs Slug, Sign Corrected



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

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

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

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

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

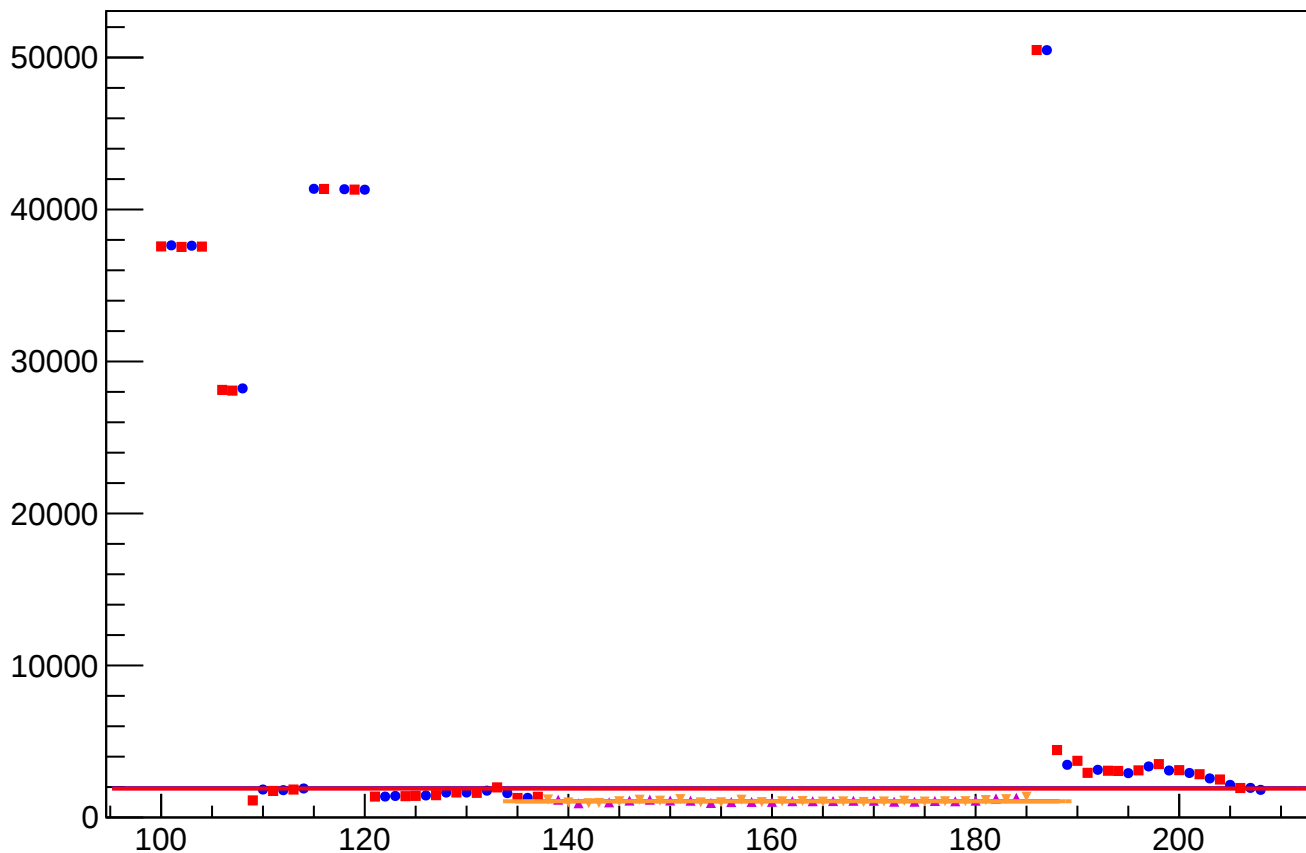
Right: -0.742 ± 0.415 χ^2/NDF : 68.5/58

In: -0.259 ± 0.235 χ^2/NDF : 58.8/50

Out: -0.265 ± 0.229 χ^2/NDF : 73.1/55

All: -0.262 ± 0.164 χ^2/NDF : 131.9/106

diff_bpm1p02bX_rms vs Slug, Sign Corrected



Right In: 1924.943+/-0.413

χ^2/NDF : 6924302.3/27

Left Out: 1064.701+/-0.176

χ^2/NDF : 186511.5/24

Right Out: 1901.895+/-0.417

χ^2/NDF : 8340255.7/30

Left In: 1066.255+/-0.182

χ^2/NDF : 164232.1/22

Left: 1065.454+/-0.126

χ^2/NDF : 350781.3/47

Right: 1913.531+/-0.293

χ^2/NDF : 15266099.7/58

In: 1205.477+/-0.166

χ^2/NDF : 10709516.3/50

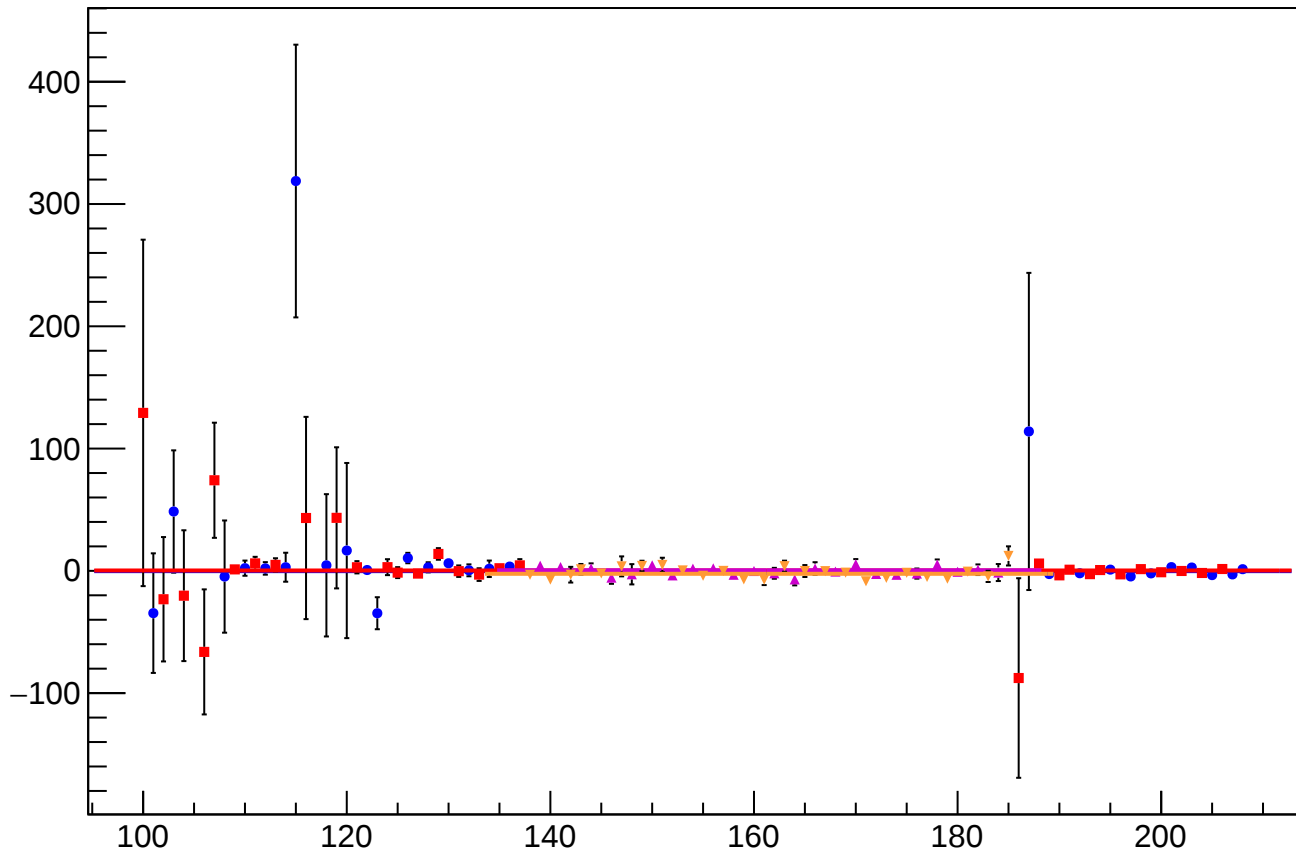
Out: 1191.366+/-0.162

χ^2/NDF : 11946244.0/55

All: 1198.246+/-0.116

χ^2/NDF : 22659448.9/1

diff_bpm1p02bY_mean vs Slug, Sign Corrected



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

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

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

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

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

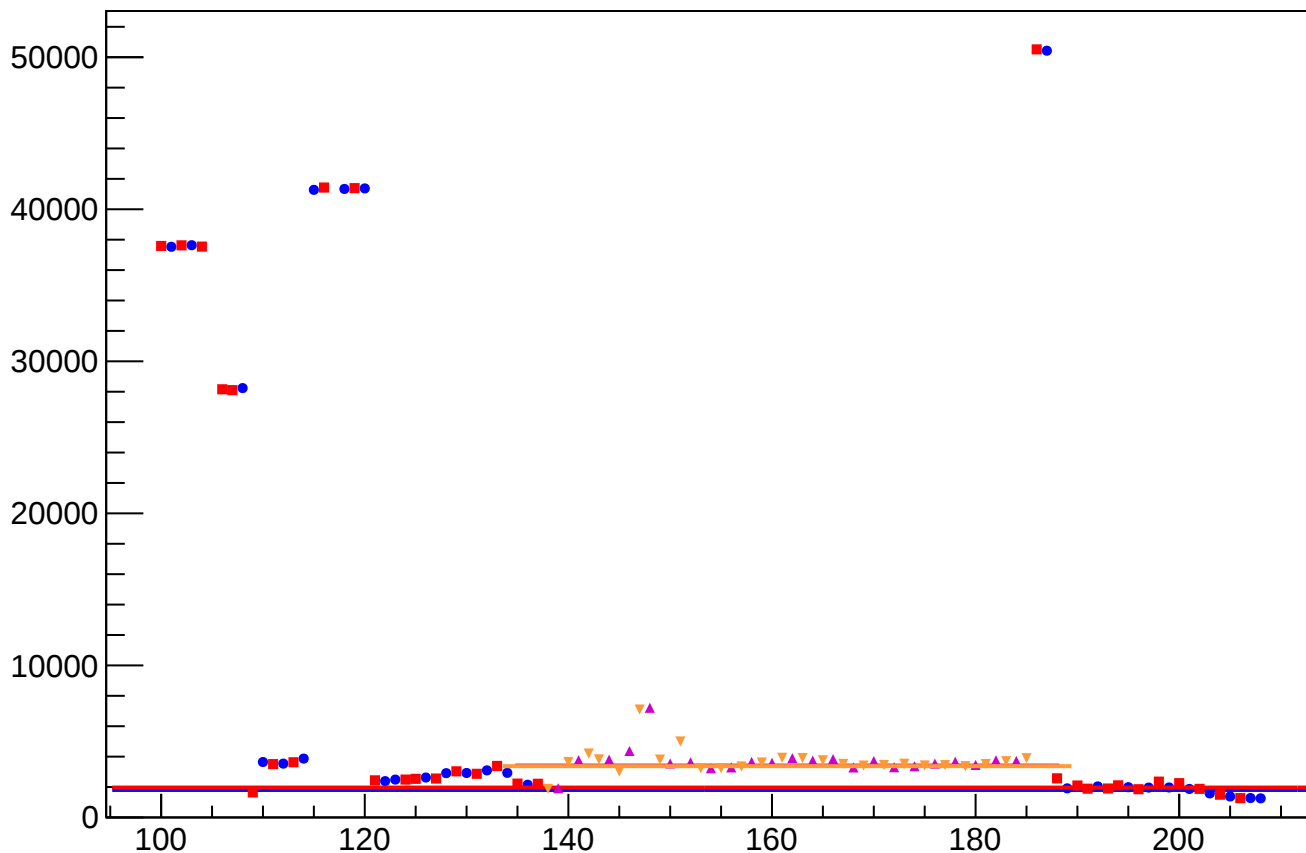
Right: 0.003 ± 0.403 $\chi^2/\text{NDF}: 80.3/58$

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

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

All: -0.331 ± 0.332 $\chi^2/\text{NDF}: 125.3/106$

diff_bpm1p02bY_rms vs Slug, Sign Corrected



Right In: 1809.973+/-0.388

χ^2/NDF : 6705560.7/27

Left: 3391.680+/-0.413

χ^2/NDF : 3093609.1/47

Left Out: 3372.958+/-0.573

χ^2/NDF : 1656864.7/24

Right: 1881.958+/-0.285

χ^2/NDF : 13687480.6/58

Right Out: 1966.615+/-0.420

χ^2/NDF : 6906874.9/30

In: 2286.179+/-0.325

χ^2/NDF : 13217181.2/50

Out: 2458.520+/-0.339

χ^2/NDF : 12478662.2/55

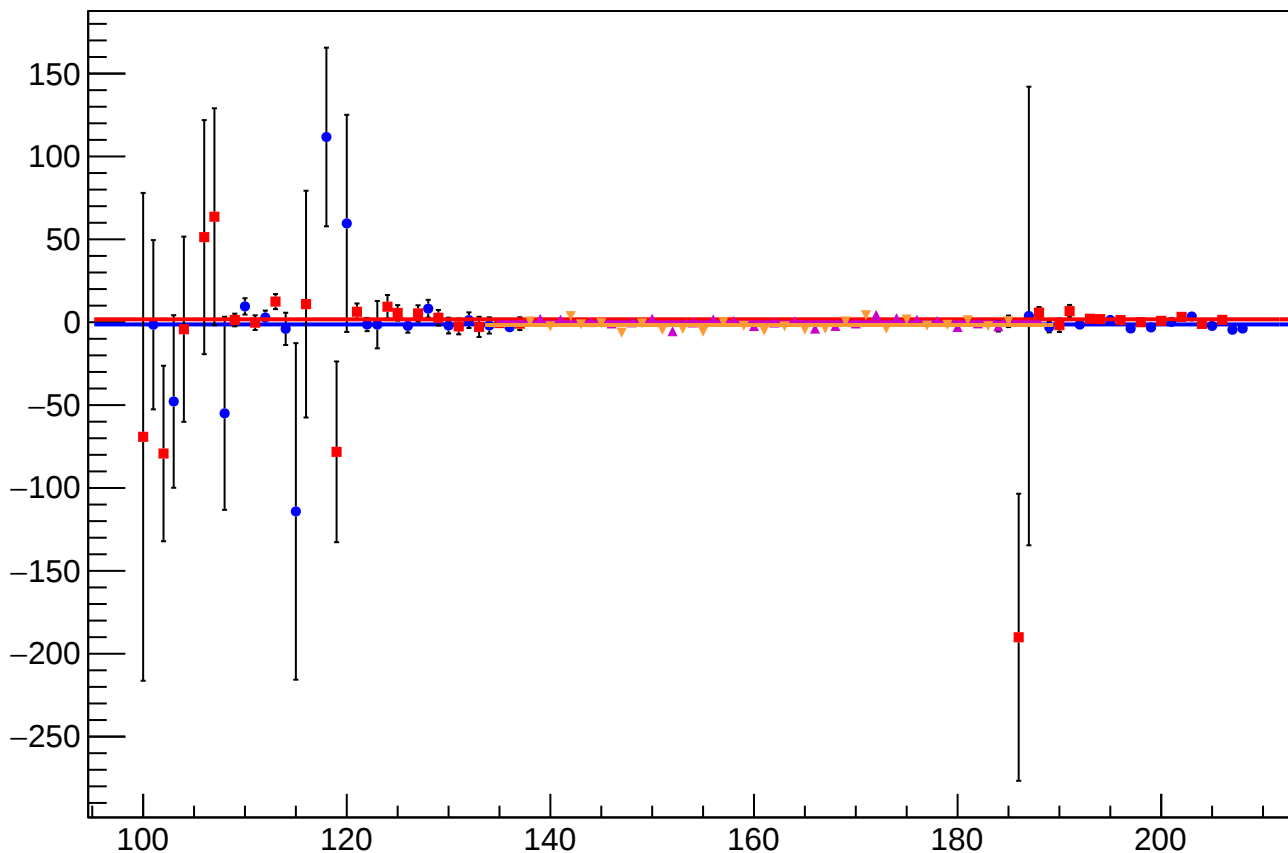
Left In: 3411.924+/-0.596

χ^2/NDF : 1434523.7/22

All: 2368.712+/-0.235

χ^2/NDF : 25830551.7/1

diff_bpm1p03aX_mean vs Slug, Sign Corrected



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

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

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

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

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

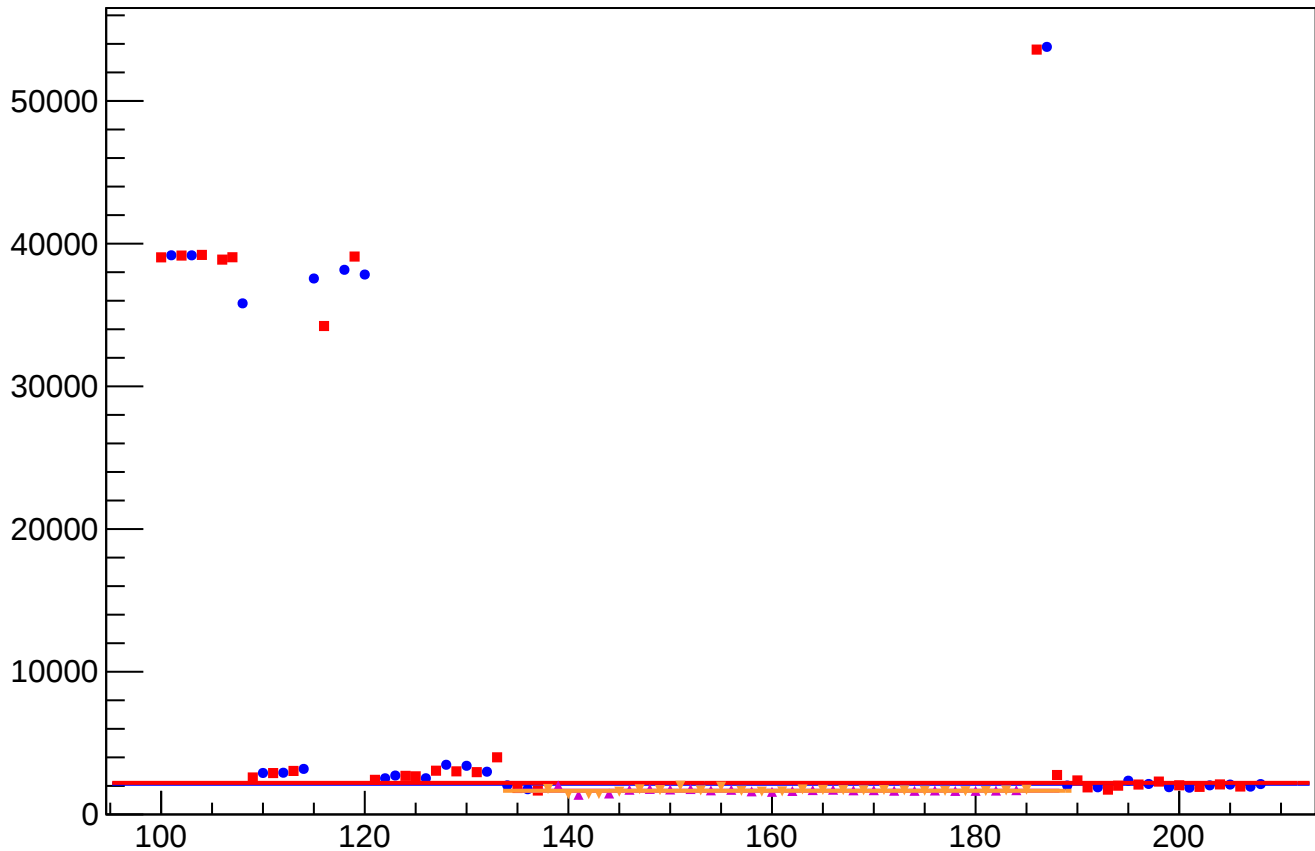
Right: 0.169 ± 0.454 χ^2/NDF : 69.8/58

In: -0.432 ± 0.339 χ^2/NDF : 60.6/50

Out: -0.774 ± 0.333 χ^2/NDF : 94.9/55

All: -0.606 ± 0.238 χ^2/NDF : 156.0/106

diff_bpm1p03aX_rms vs Slug, Sign Corrected



Right In: 2148.525 $\pm$ 0.448 χ^2/NDF : 5458594.8/27

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

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

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

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

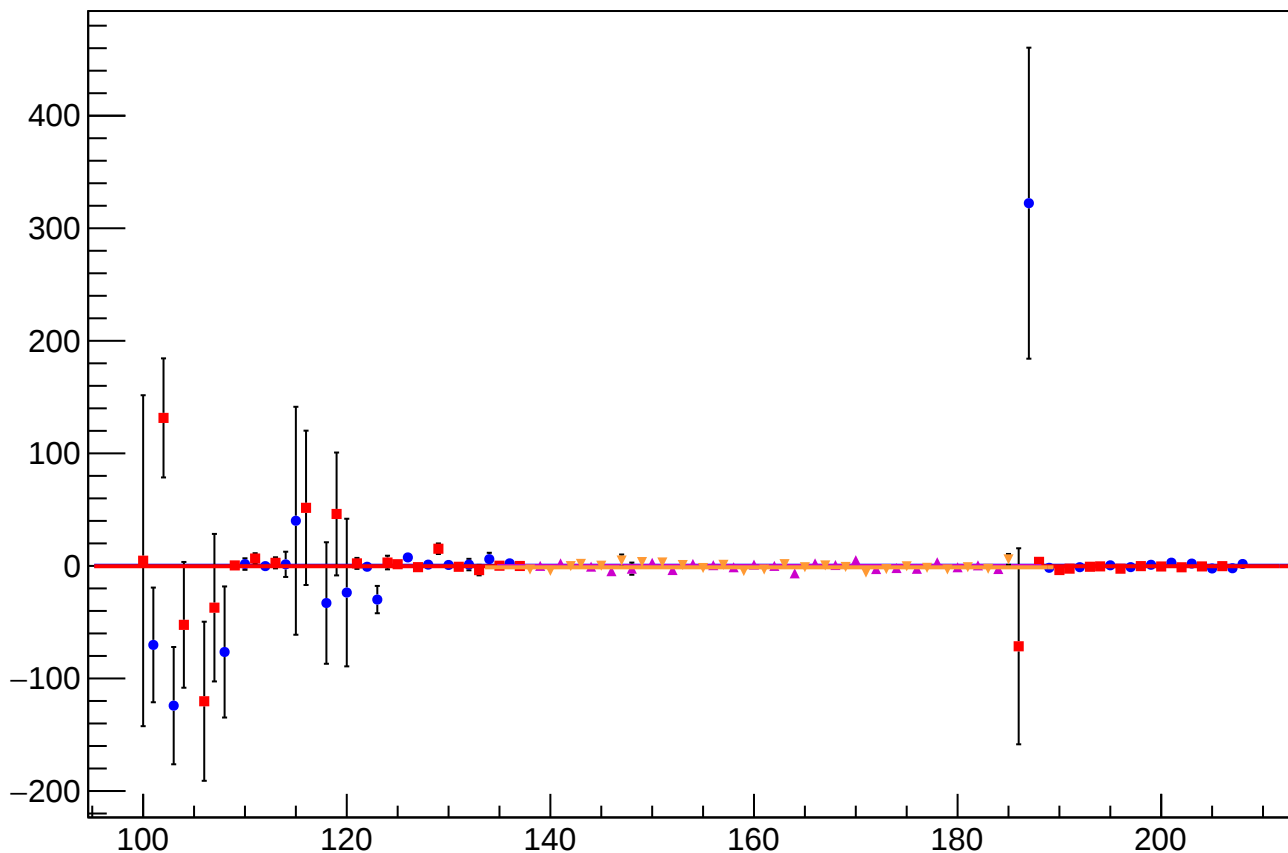
Right: 2180.514 $\pm$ 0.321 χ^2/NDF : 11531672.9/58

In: 1802.438 $\pm$ 0.240 χ^2/NDF : 6474471.8/50

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

All: 1803.215 $\pm$ 0.168 χ^2/NDF : 13840915.0/103

diff_bpm1p03aY_mean vs Slug, Sign Corrected



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

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

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

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

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

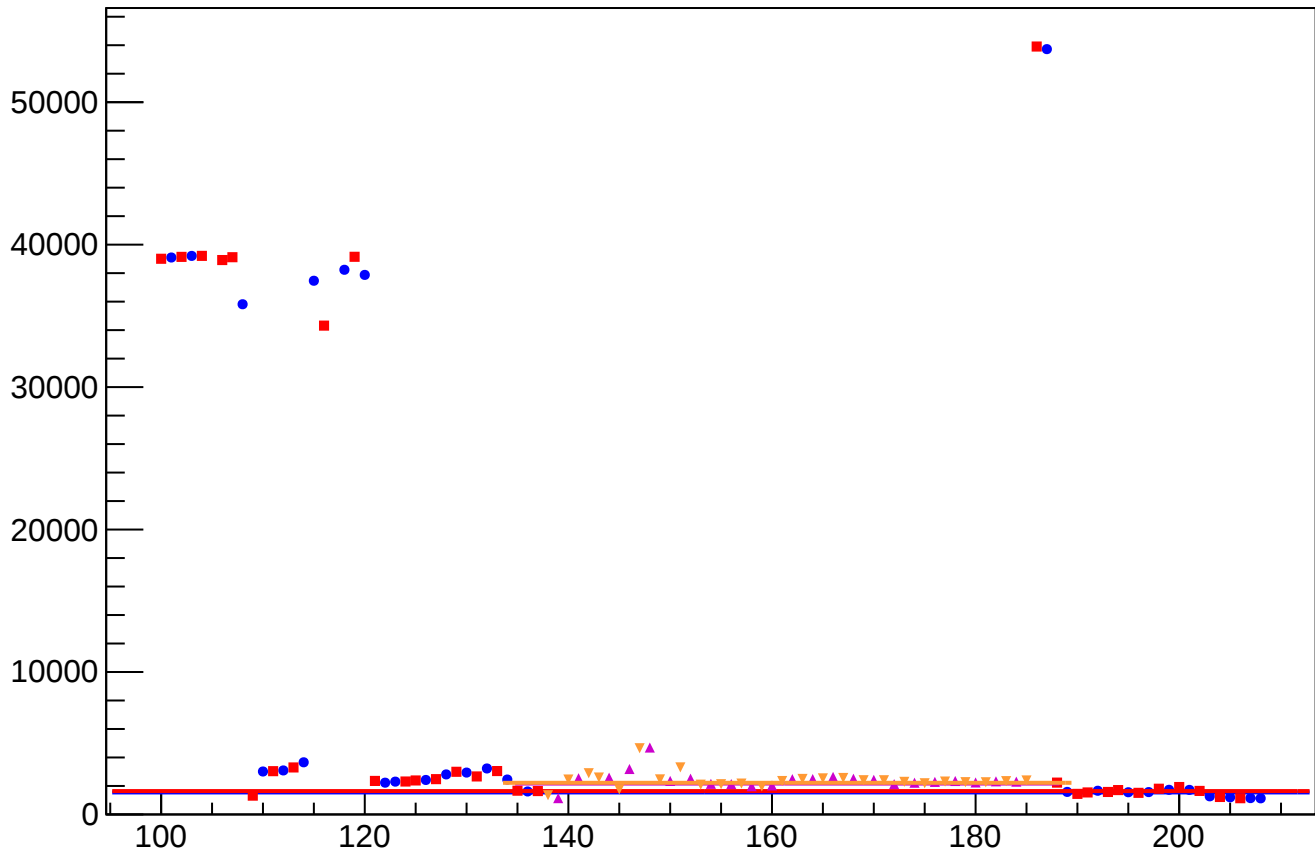
Right: -0.045 ± 0.342 $\chi^2/\text{NDF}: 74.5/58$

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

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

All: -0.329 ± 0.254 $\chi^2/\text{NDF}: 119.3/106$

diff_bpm1p03aY_rms vs Slug, Sign Corrected



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

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

Right Out: 1641.353+/-0.353 χ^2/NDF : 7170924.2/30

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

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

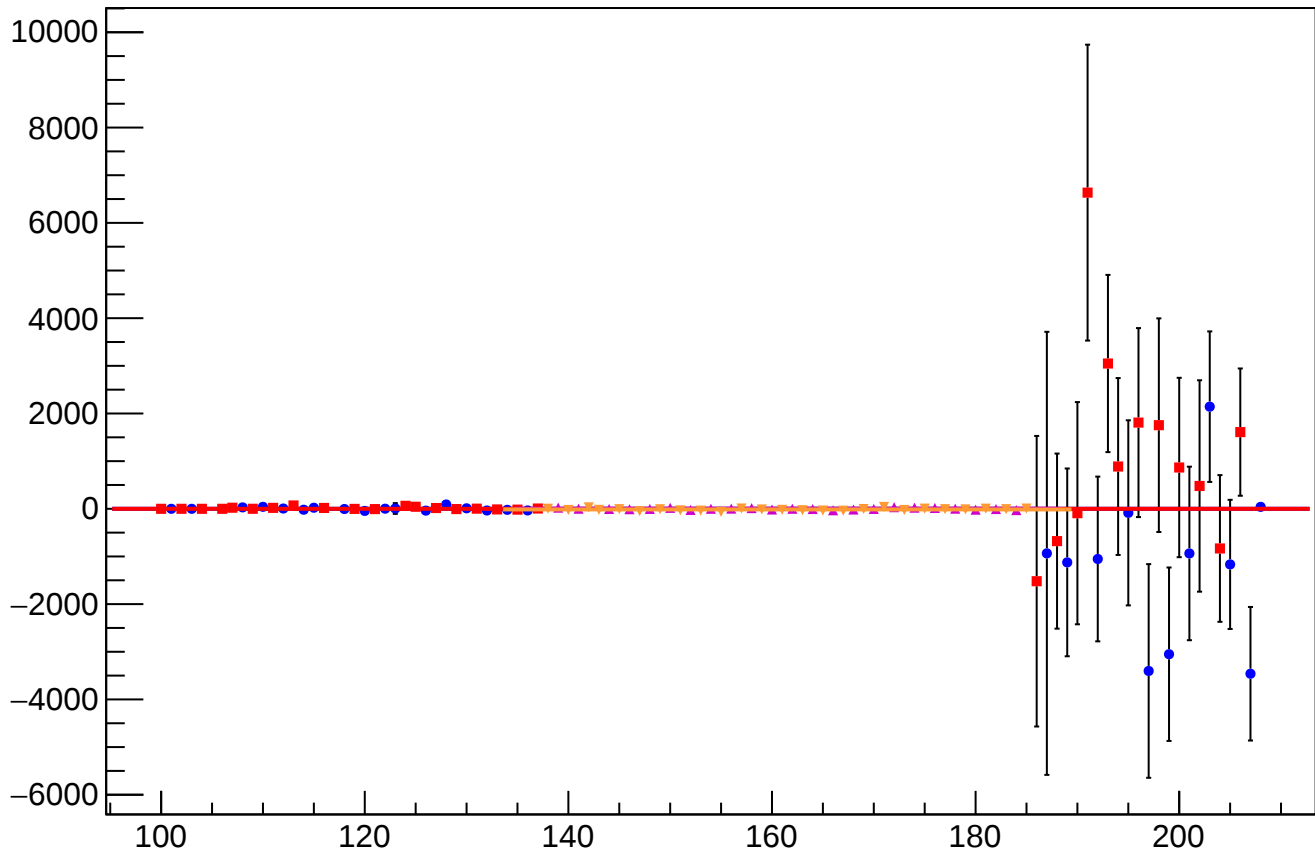
Right: 1590.313+/-0.242 χ^2/NDF : 14072344.4/58

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

Out: 1911.502+/-0.258 χ^2/NDF : 9853451.7/55

All: 1861.014+/-0.180 χ^2/NDF : 20282929.1/100

diff_cav4bX_mean vs Slug, Sign Corrected



Right In: 0.013 $\pm$ 0.017 χ^2 /NDF: 32.1/27

Left Out: -13.484 $\pm$ 2.800 χ^2 /NDF:58.7/24

Right Out: -0.003 $\pm$ 0.016 χ^2 /NDF: 26.8/30

Left In: 0.459 $\pm$ 2.917 χ^2 /NDF:29.0/22

Left: -6.796 $\pm$ 2.020 χ^2 /NDF: 99.5/47

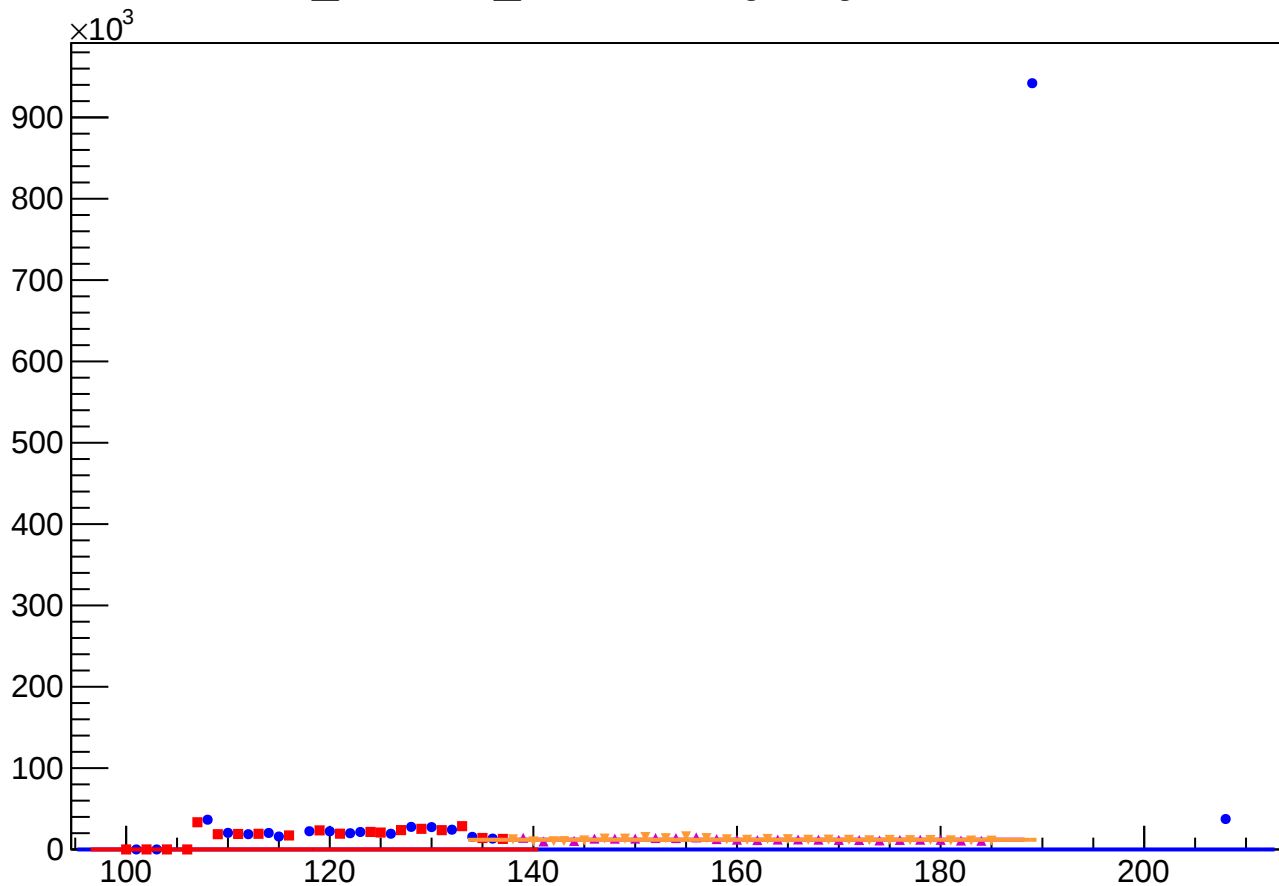
Right: 0.004 $\pm$ 0.012 χ^2 /NDF: 59.4/58

In: 0.013 $\pm$ 0.017 χ^2 /NDF:61.1/50

Out: -0.004 $\pm$ 0.016 χ^2 /NDF:108.7/55

All: 0.004 $\pm$ 0.012 χ^2 /NDF: 170.3/106

diff_cav4bX_rms vs Slug, Sign Corrected



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

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

Right Out: 18.311+/-0.011 χ^2/NDF : 11063399.8/18

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

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

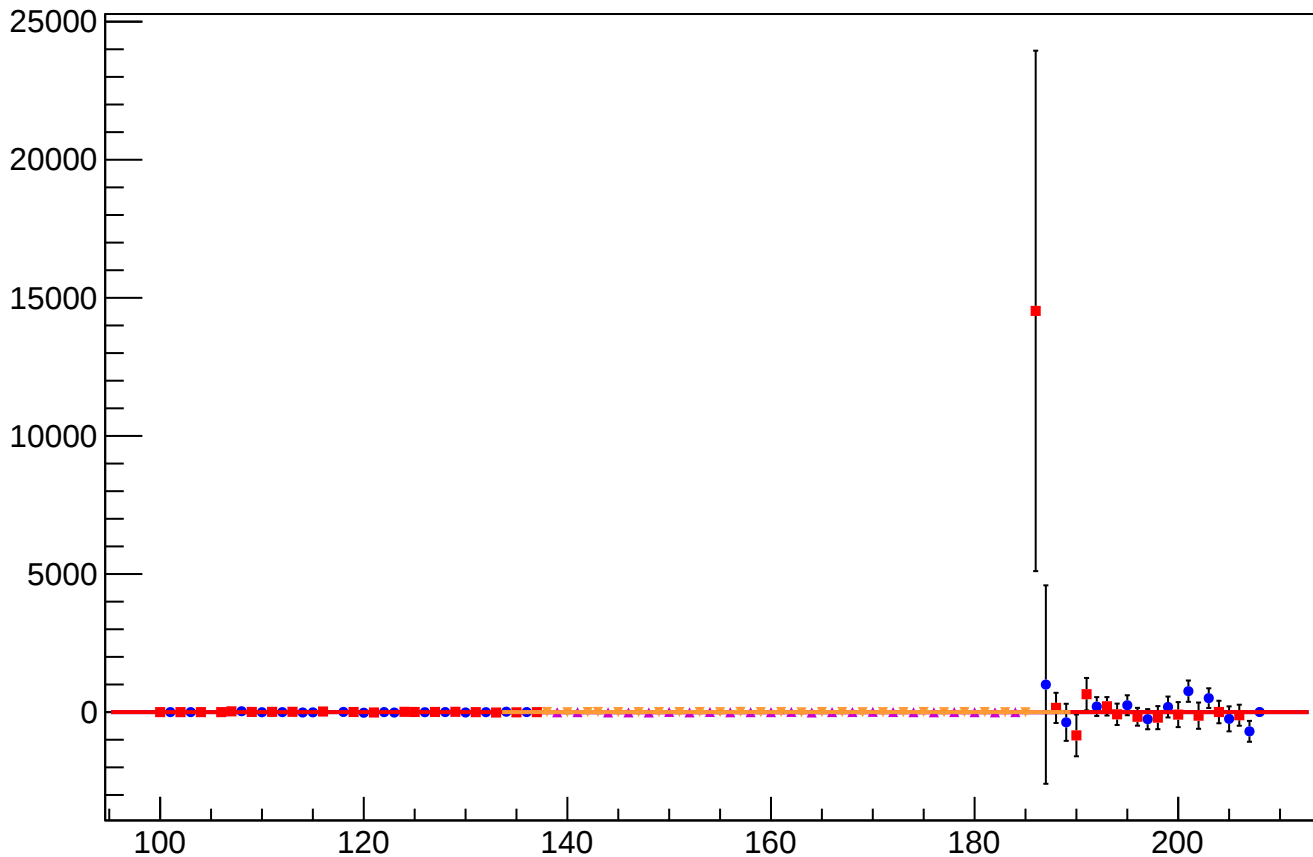
Right: 18.466+/-0.008 χ^2/NDF : 23349359.8/37

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

Out: 18.703+/-0.011 χ^2/NDF : 47605245.6/43

All: 18.873+/-0.008 χ^2/NDF : 94373582.6/85

diff_cav4bY_mean vs Slug, Sign Corrected



Right In: 0.001 $\pm$ 0.009 χ^2 /NDF: 24.6/27

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

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

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

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

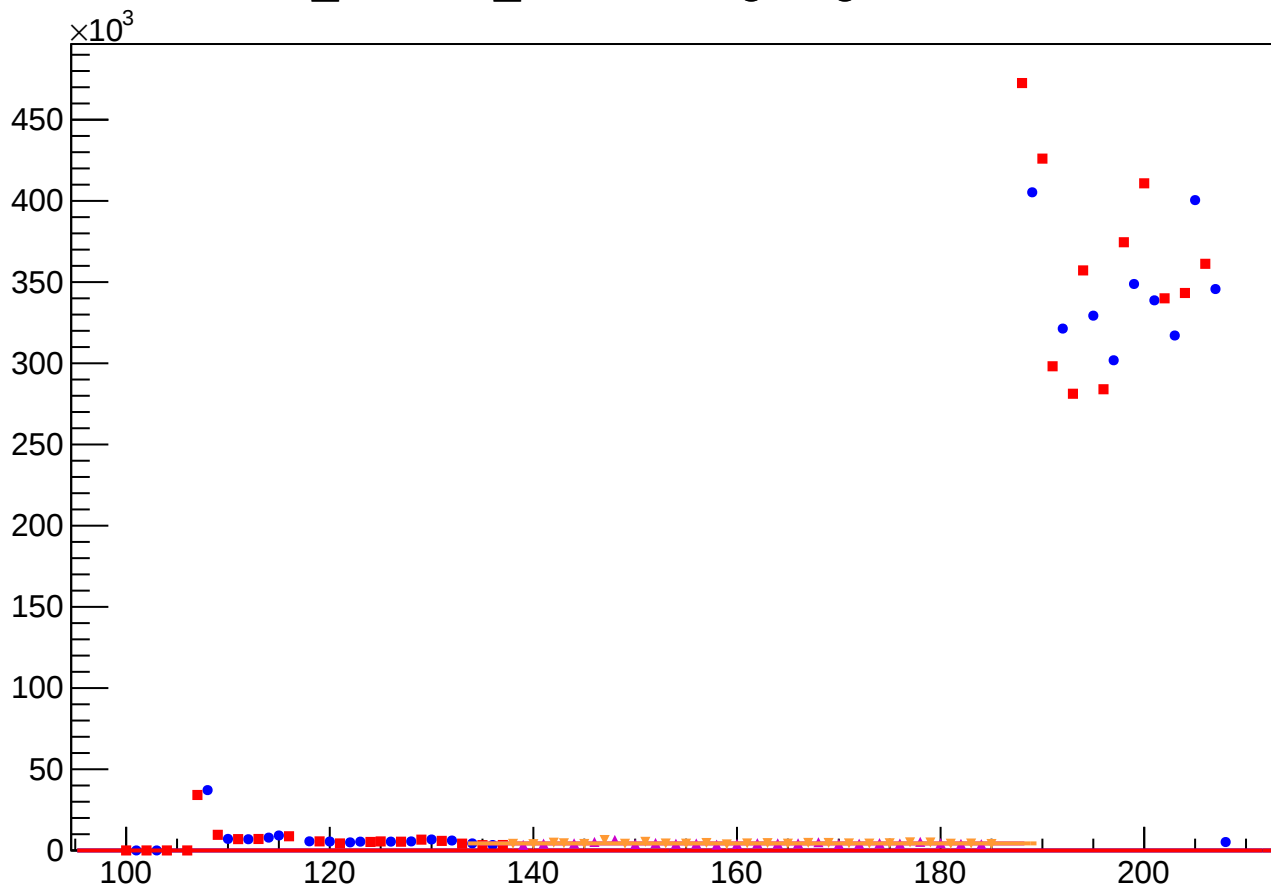
Right: -0.007 $\pm$ 0.006 χ^2 /NDF: 50.9/58

In: 0.001 $\pm$ 0.009 χ^2 /NDF:61.0/50

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

All: -0.007 $\pm$ 0.006 χ^2 /NDF: 108.2/106

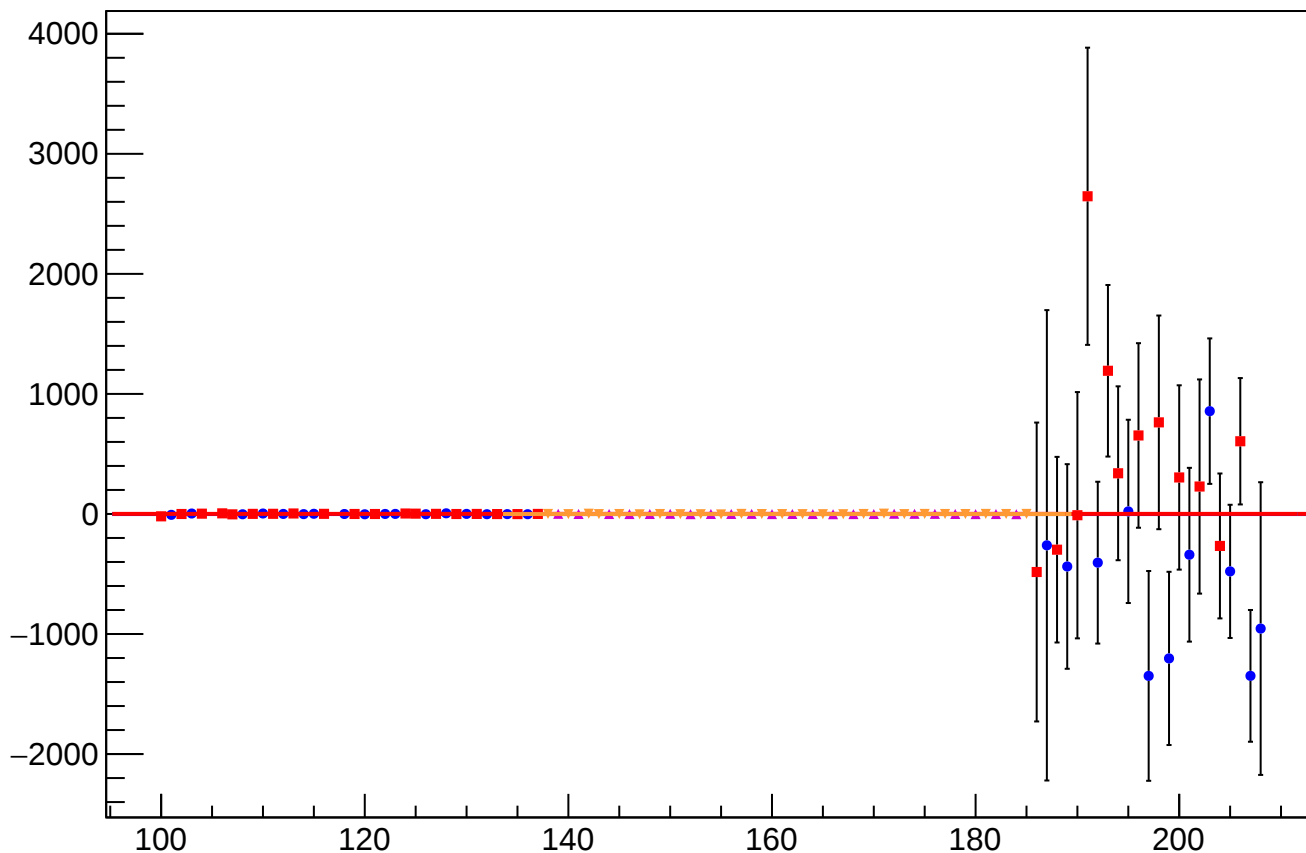
diff_cav4bY_rms vs Slug, Sign Corrected



Right In: 9.950 ± 0.007 χ^2/NDF : 25796458.8/26
 Left Out: 4349.005 ± 0.723 χ^2/NDF : 383895.7/24
 Right Out: 9.856 ± 0.006 χ^2/NDF : 25906547.0/29
 Left In: 4321.572 ± 0.741 χ^2/NDF : 514603.2/22

Left: 4335.639 ± 0.518 χ^2/NDF : 899200.9/47
 Right: 9.900 ± 0.004 χ^2/NDF : 51703117.0/56
 In: 10.282 ± 0.007 χ^2/NDF : 60128033.6/49
 Out: 10.166 ± 0.006 χ^2/NDF : 62335696.1/54
 All: 10.221 ± 0.004 χ^2/NDF : 122463896.7/100

diff_cav4cX_mean vs Slug, Sign Corrected



Right In: -0.716 ± 0.483 χ^2/NDF : 38.1/27

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

Right Out: 0.640 ± 0.501 χ^2/NDF : 24.1/30

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

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

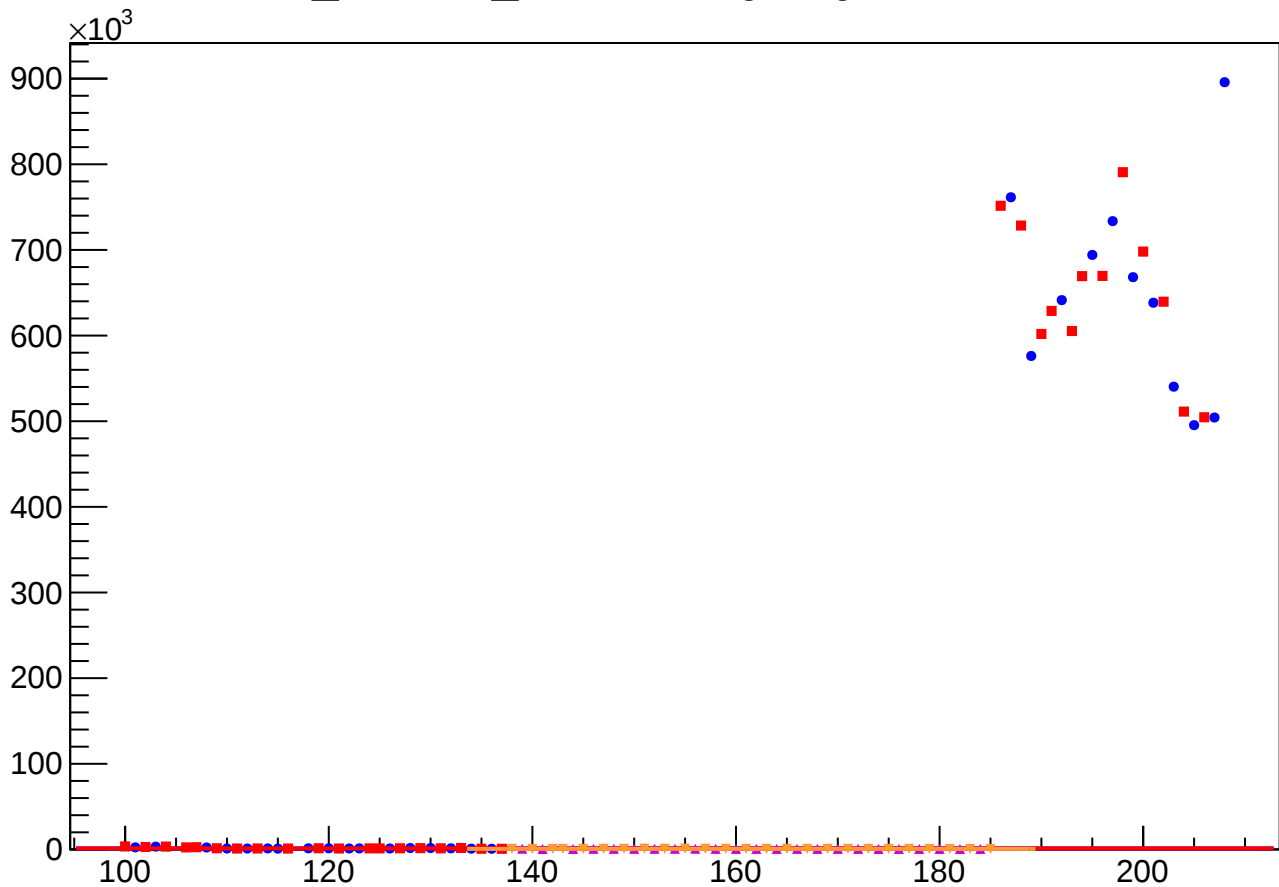
Right: -0.063 ± 0.348 χ^2/NDF : 66.0/58

In: -0.063 ± 0.161 χ^2/NDF : 69.6/50

Out: -0.637 ± 0.156 χ^2/NDF : 89.8/55

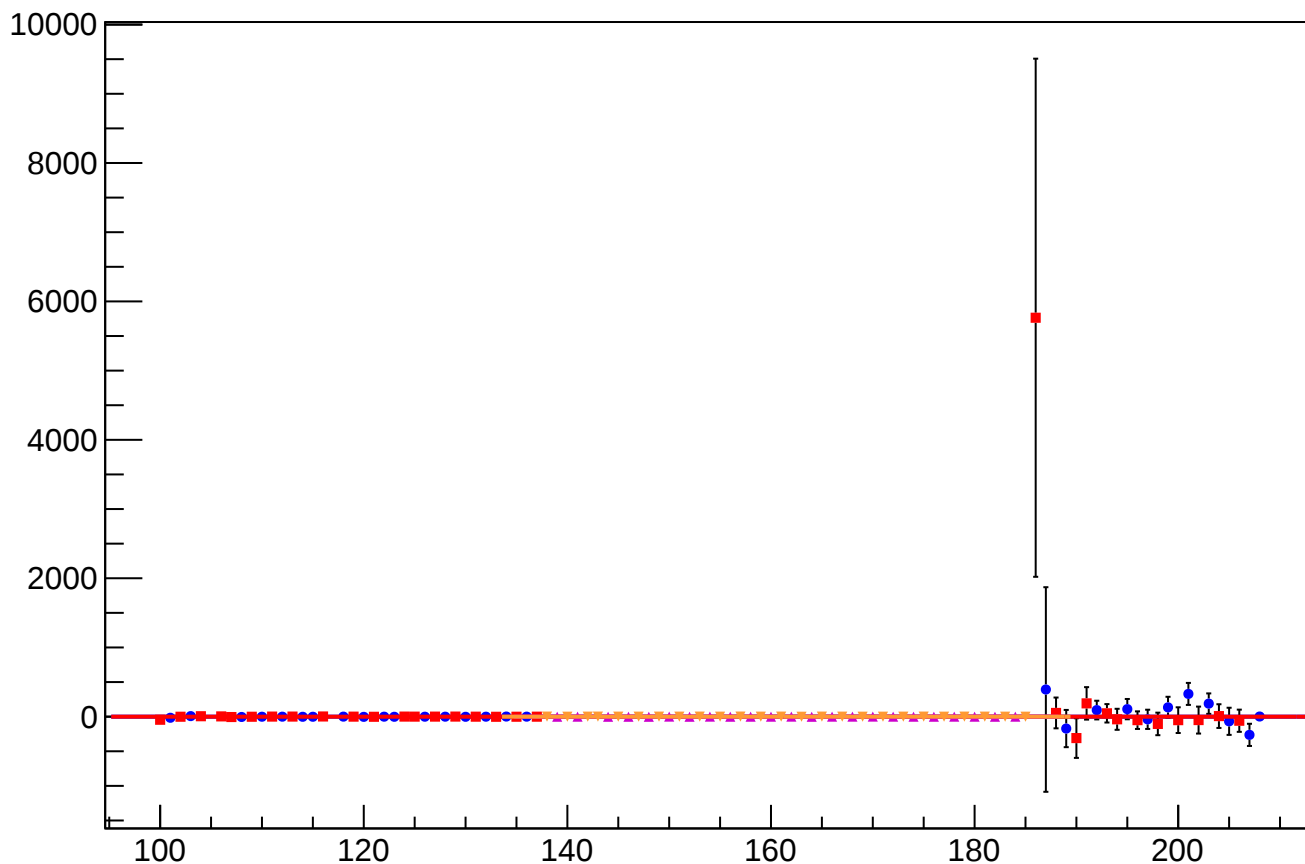
All: -0.359 ± 0.112 χ^2/NDF : 166.0/106

diff_cav4cX_rms vs Slug, Sign Corrected



Right In: 1169.991 $\pm$ 0.342 χ^2 /NDF: 16670575.5/27
 Left: 703.867 $\pm$ 0.084 χ^2 /NDF: 726141.0/47
 Left Out: 700.984 $\pm$ 0.116 χ^2 /NDF: 392855.4/24
 Right: 1209.002 $\pm$ 0.246 χ^2 /NDF: 34096411.6/58
 Right Out: 1251.034 $\pm$ 0.355 χ^2 /NDF: 17398745.4/30
 In: 758.401 $\pm$ 0.114 χ^2 /NDF: 18635572.1/50
 Left In: 706.971 $\pm$ 0.121 χ^2 /NDF: 332011.4/22
 Out: 754.466 $\pm$ 0.111 χ^2 /NDF: 19963841.2/55
 All: 756.376 $\pm$ 0.079 χ^2 /NDF: 38600028.1/10

diff_cav4cY_mean vs Slug, Sign Corrected



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

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

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

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

Left: 0.059 ± 0.088 χ^2/NDF : 57.1/47

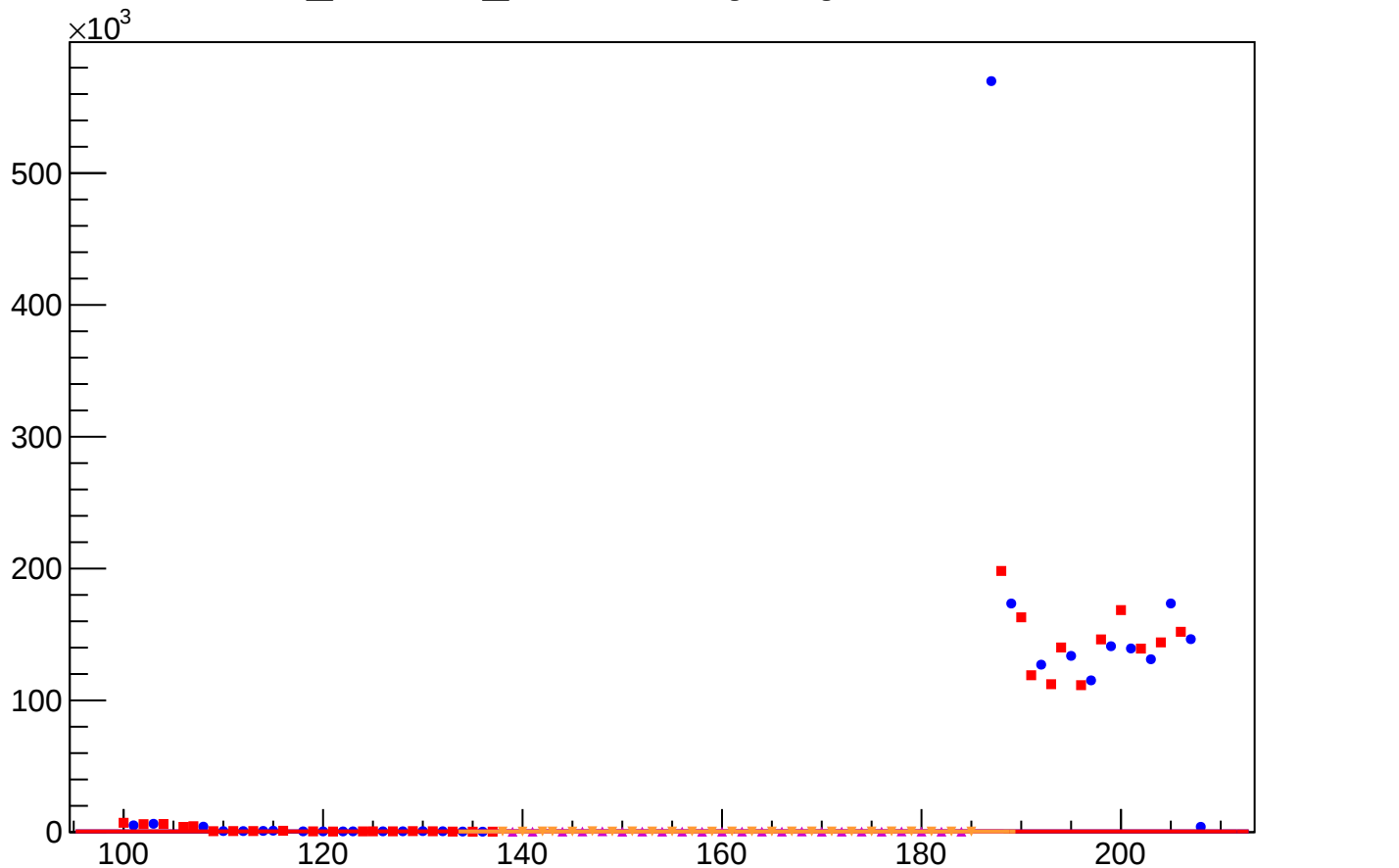
Right: -0.168 ± 0.188 χ^2/NDF : 56.6/58

In: -0.112 ± 0.114 χ^2/NDF : 65.4/50

Out: 0.142 ± 0.111 χ^2/NDF : 46.9/55

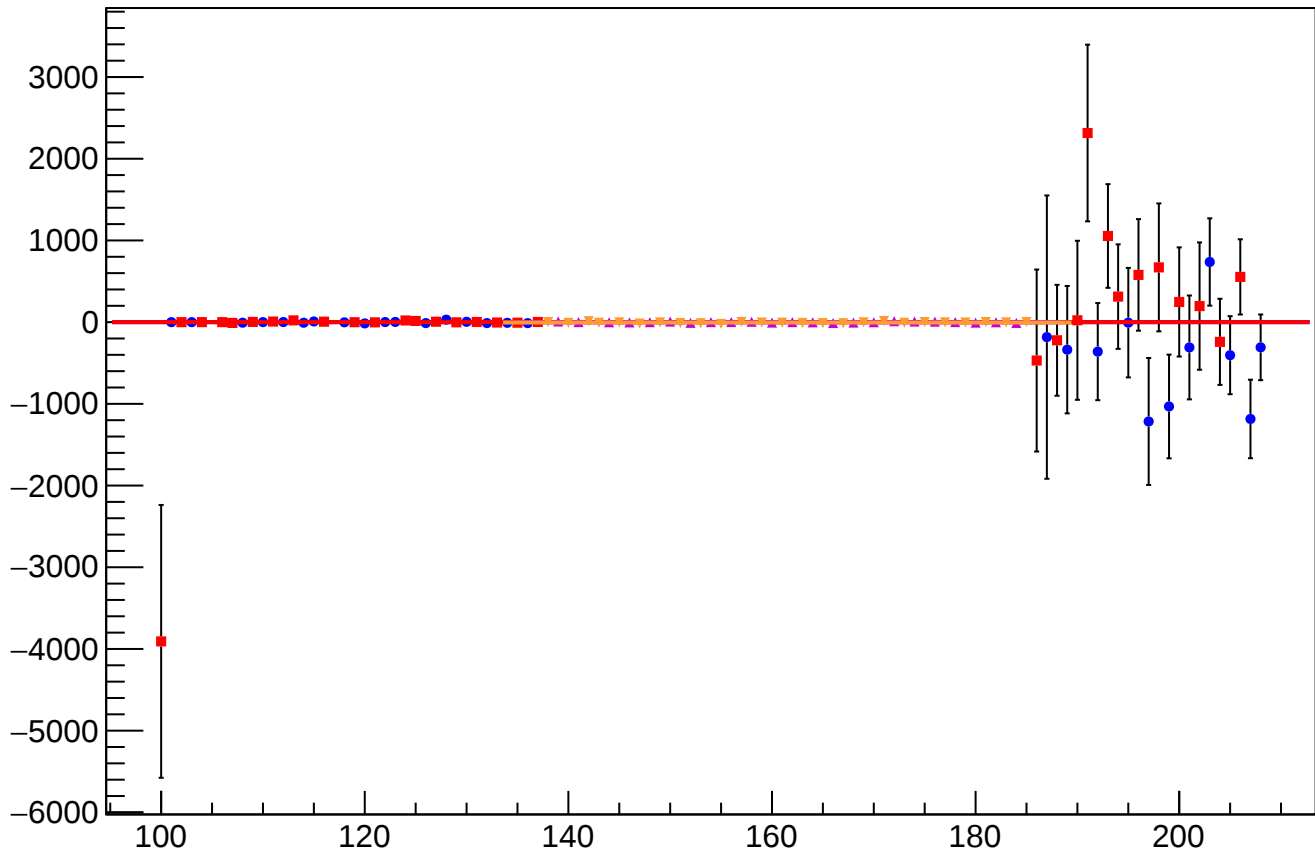
All: 0.018 ± 0.080 χ^2/NDF : 114.9/106

diff_cav4cY_rms vs Slug, Sign Corrected



Right In: 621.651+/-0.190	χ^2/NDF : 17838727.4/27	Left: 521.481+/-0.062	χ^2/NDF : 758275.0/47
Left Out: 522.220+/-0.087	χ^2/NDF : 330405.3/24	Right: 611.906+/-0.133	χ^2/NDF : 36184850.5/57
Right Out: 602.466+/-0.187	χ^2/NDF : 18340943.0/29	In: 538.936+/-0.081	χ^2/NDF : 18497828.1/50
Left In: 520.700+/-0.089	χ^2/NDF : 427720.5/22	Out: 536.420+/-0.079	χ^2/NDF : 18822960.5/54
		All: 537.645+/-0.056	χ^2/NDF : 37321286.9/10

diff_cav4dX_mean vs Slug, Sign Corrected



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

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

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

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

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

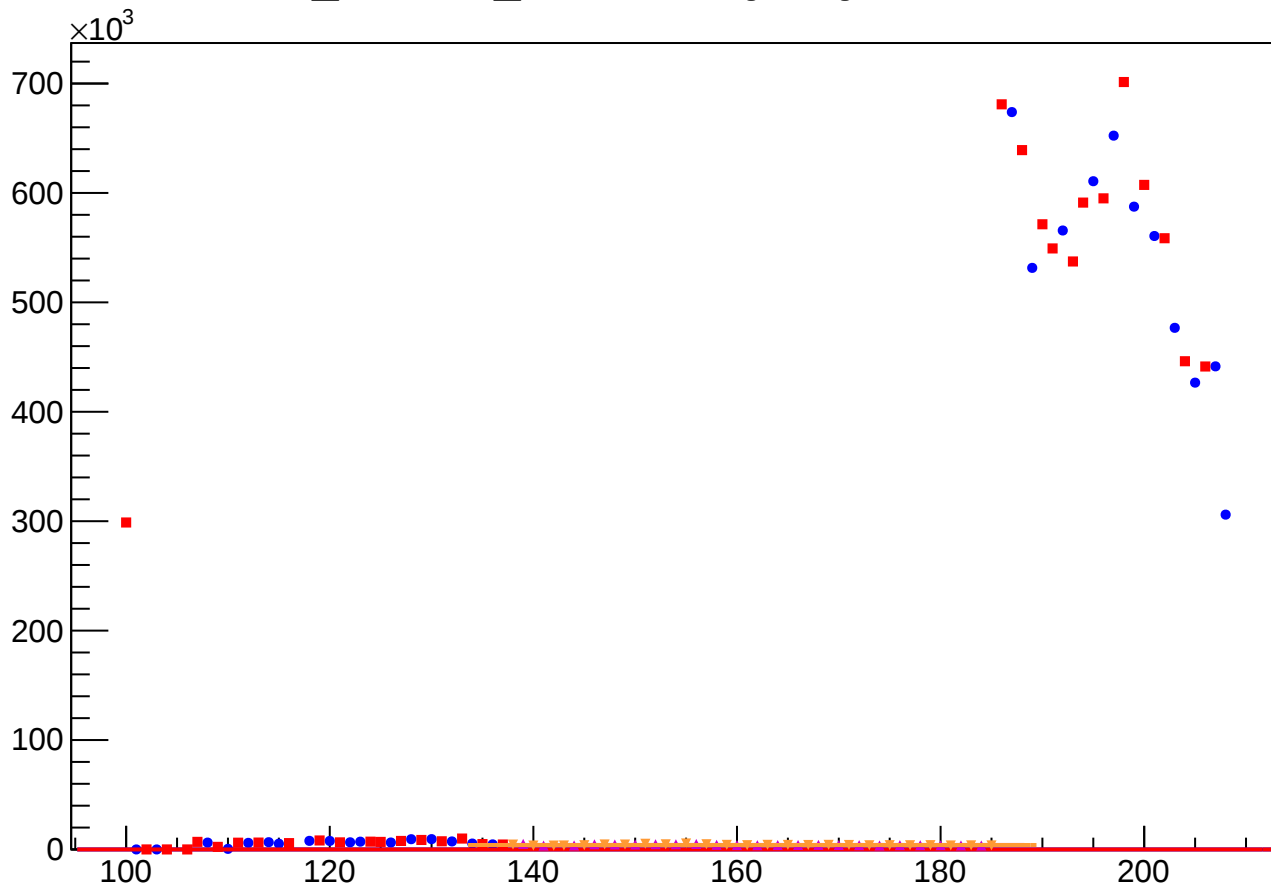
Right: 0.004 ± 0.014 χ^2/NDF : 62.6/58

In: -0.022 ± 0.021 χ^2/NDF : 60.7/50

Out: 0.025 ± 0.020 χ^2/NDF : 109.2/55

All: 0.003 ± 0.014 χ^2/NDF : 172.5/106

diff_cav4dX_rms vs Slug, Sign Corrected



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

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

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

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

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

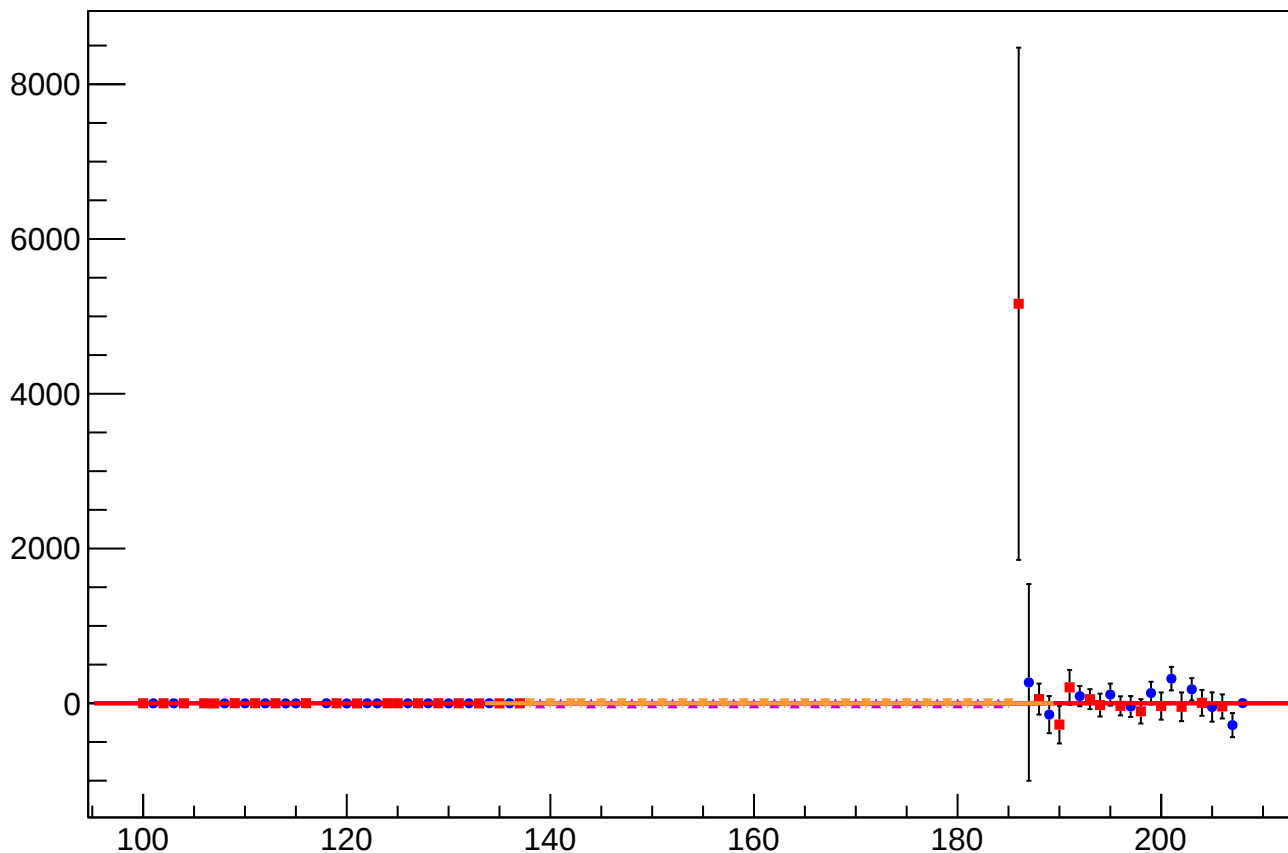
Right: 17.308+/-0.010 χ^2 /NDF: 52567701.0/58

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

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

All: 19.068+/-0.010 χ^2 /NDF: 123223118.2/10

diff_cav4dY_mean vs Slug, Sign Corrected



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

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

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

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

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

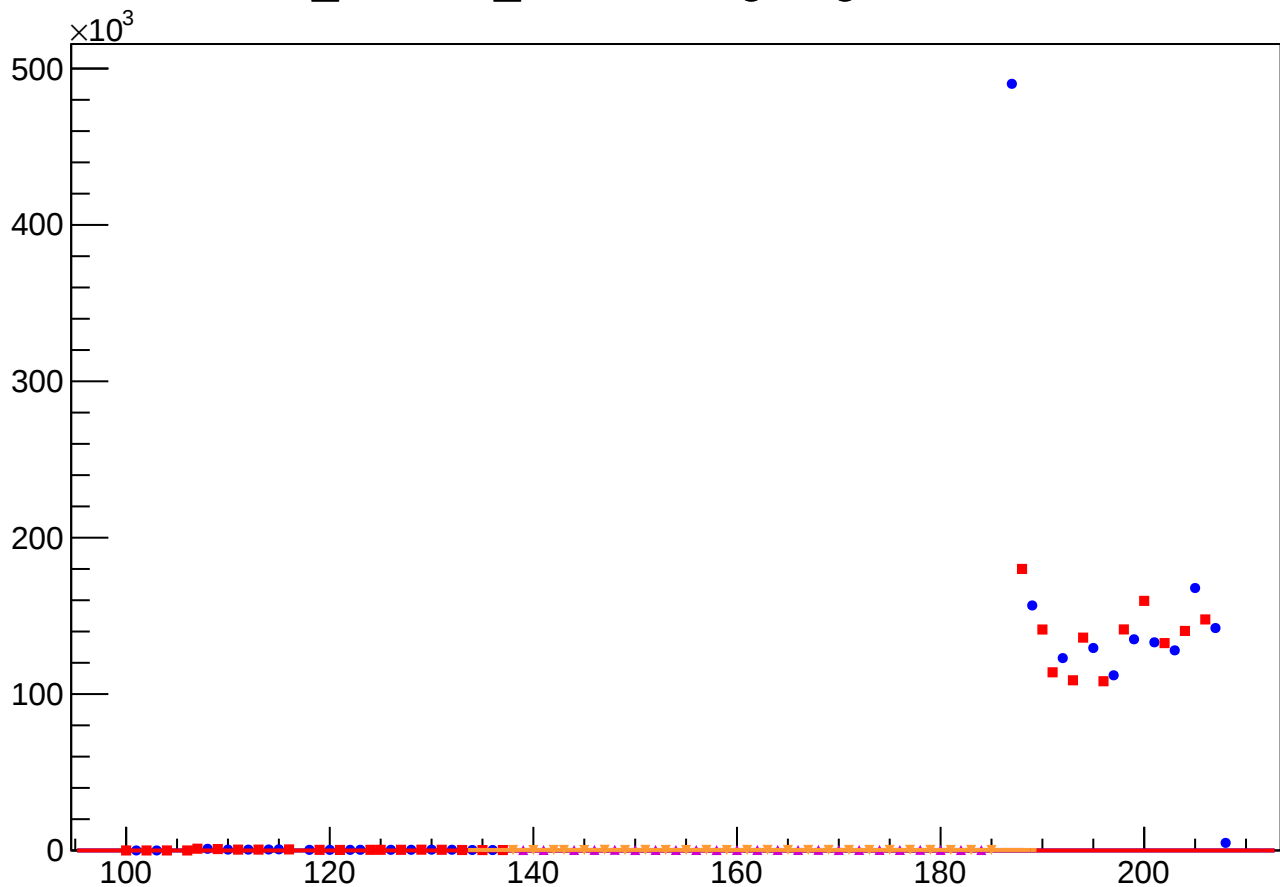
Right: -0.000 $\pm$ 0.001 χ^2 /NDF: 49.4/58

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

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

All: -0.000 $\pm$ 0.001 χ^2 /NDF: 106.2/106

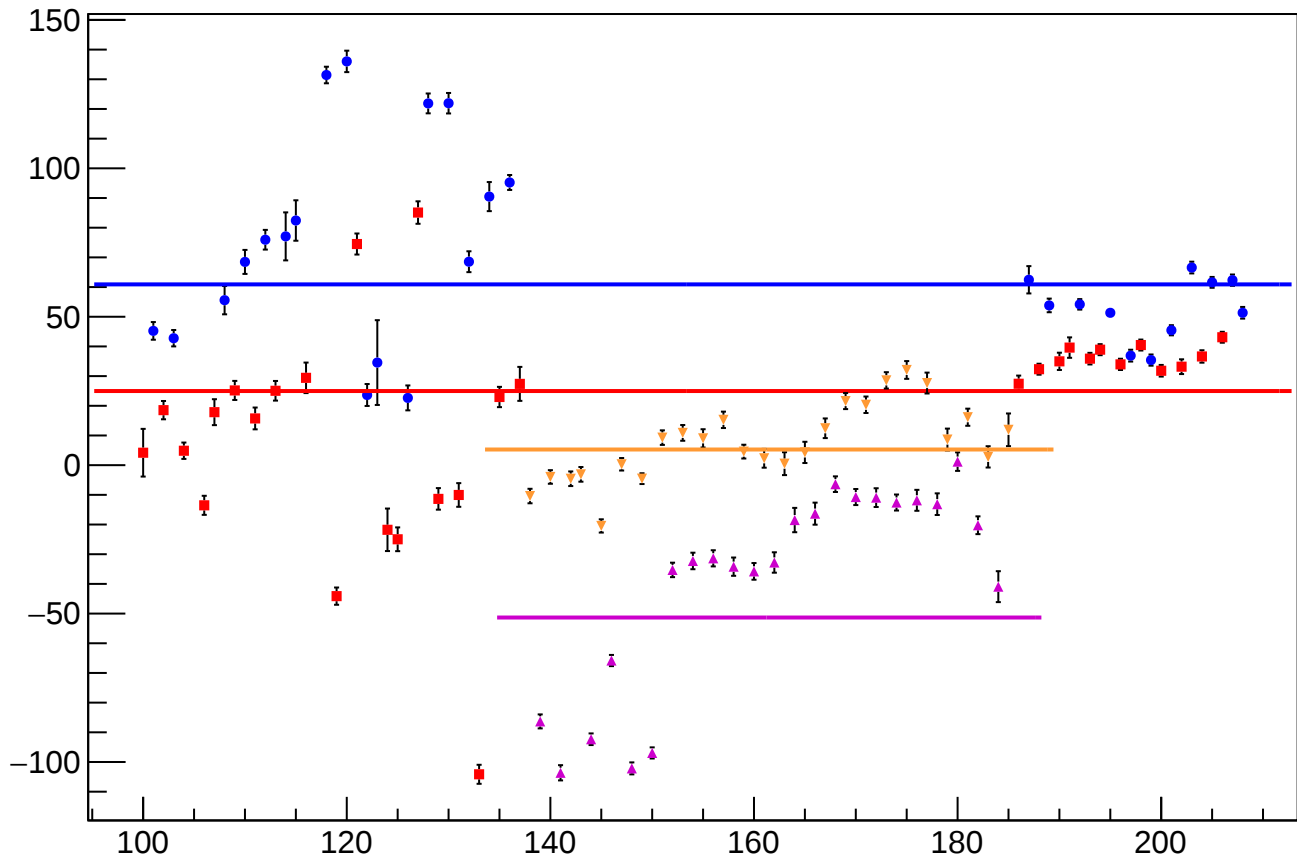
diff_cav4dY_rms vs Slug, Sign Corrected



Right In: 1.700 $\pm$ 0.001 χ^2 /NDF: 26180565.0/27
 Left Out: 325.326 $\pm$ 0.054 χ^2 /NDF:347705.2/24
 Right Out: 1.728 $\pm$ 0.001 χ^2 /NDF: 25670134.1/29
 Left In: 325.626 $\pm$ 0.056 χ^2 /NDF:413350.0/22

Left: 325.471 $\pm$ 0.039 χ^2 /NDF: 761070.2/47
 Right: 1.715 $\pm$ 0.001 χ^2 /NDF: 51850908.7/57
 In: 1.913 $\pm$ 0.001 χ^2 /NDF:60322578.8/50
 Out: 1.937 $\pm$ 0.001 χ^2 /NDF:61877624.5/54
 All: 1.925 $\pm$ 0.001 χ^2 /NDF: 122200343.7/105

diff_bpm0i01X_mean vs Slug, Sign Corrected



Right In: 60.903 ± 0.491 $\chi^2/\text{NDF}: 2739.8/27$

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

Right Out: 24.974 ± 0.494 $\chi^2/\text{NDF}: 3610.7/30$

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

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

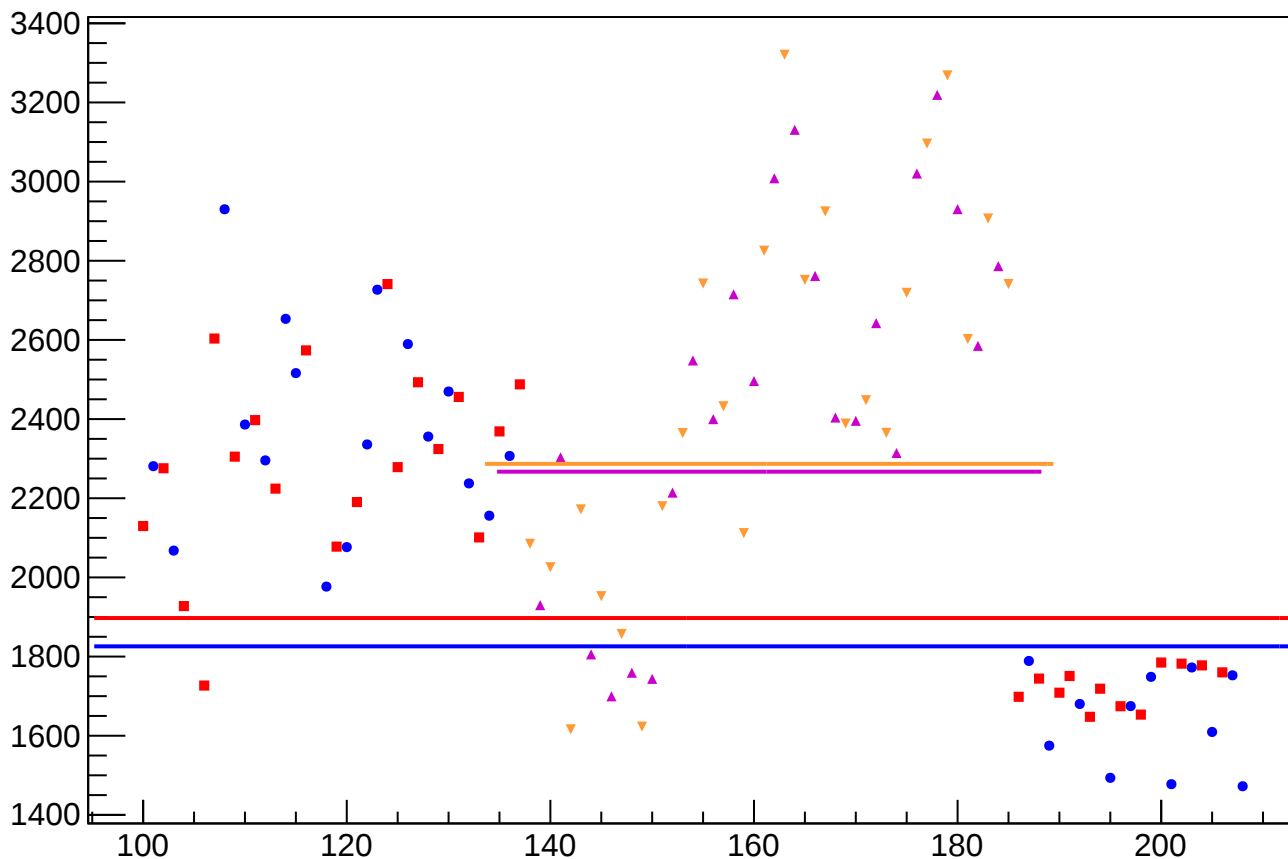
Right: 43.046 ± 0.348 $\chi^2/\text{NDF}: 9013.1/58$

In: 11.975 ± 0.369 $\chi^2/\text{NDF}: 29786.3/50$

Out: 16.078 ± 0.366 $\chi^2/\text{NDF}: 4885.4/55$

All: 14.044 ± 0.260 $\chi^2/\text{NDF}: 34734.1/106$

diff_bpm0i01X_rms vs Slug, Sign Corrected



Right In: 1825.861 ± 0.347 $\chi^2/\text{NDF}: 958522.2/27$

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

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

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

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

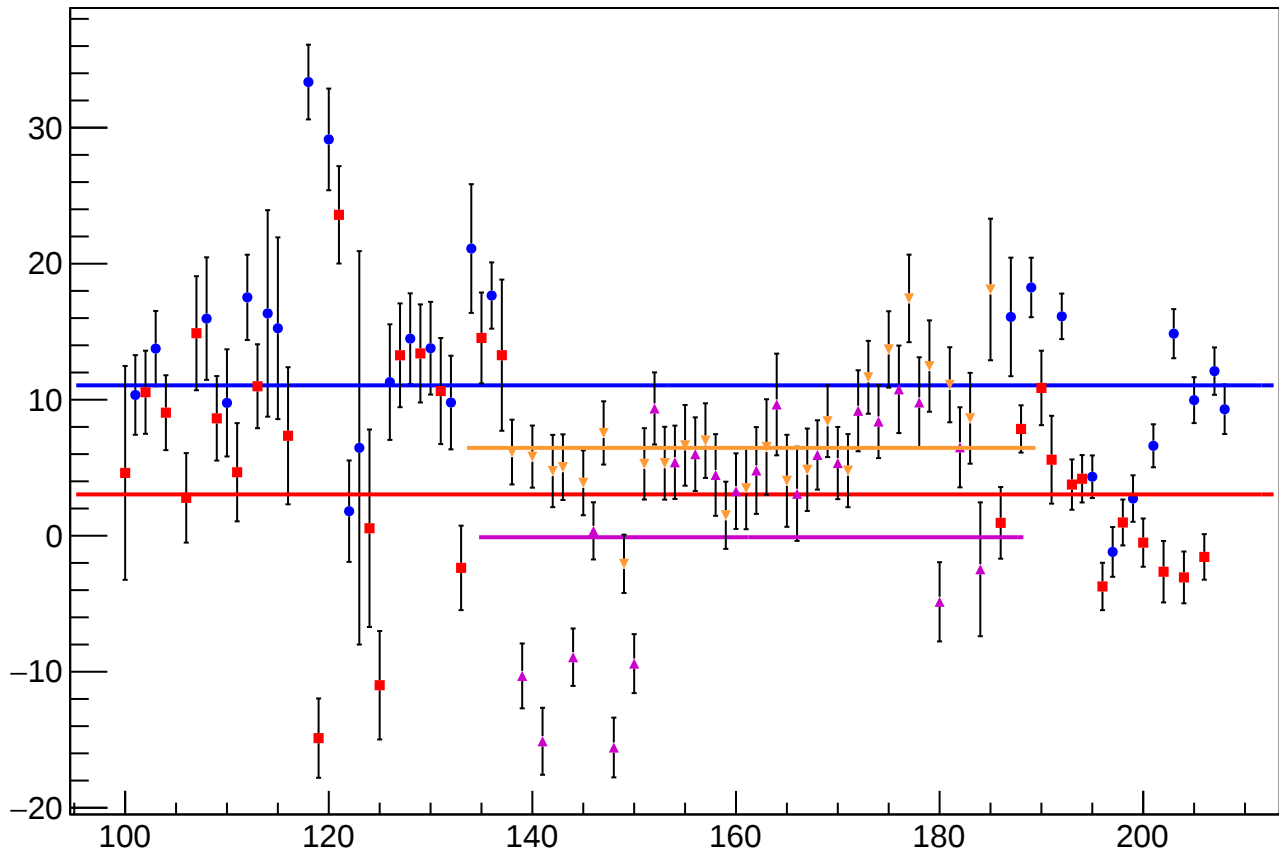
Right: 1861.395 ± 0.246 $\chi^2/\text{NDF}: 1622447.9/58$

In: 2018.220 ± 0.261 $\chi^2/\text{NDF}: 2976365.7/50$

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

All: 2045.961 ± 0.184 $\chi^2/\text{NDF}: 5564126.8/10$

diff_bpm0i01Y_mean vs Slug, Sign Corrected



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

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

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

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

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

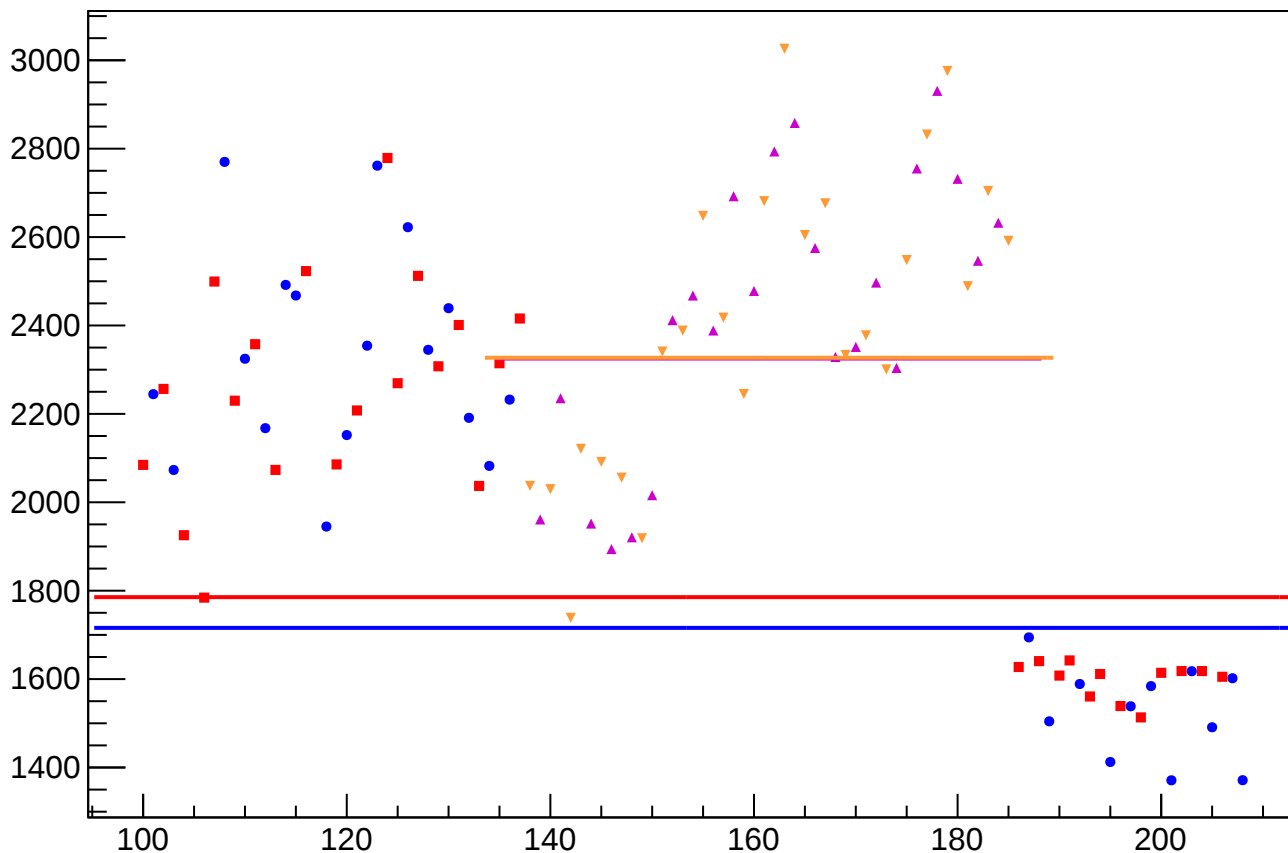
Right: 7.077 ± 0.328 $\chi^2/\text{NDF}: 600.8/58$

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

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

All: 5.516 ± 0.252 $\chi^2/\text{NDF}: 1018.7/106$

diff_bpm0i01Y_rms vs Slug, Sign Corrected



Right In: 1715.893 $\pm$ 0.327 χ^2 /NDF: 1198871.8/27

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

Right Out: 1785.385 $\pm$ 0.330 χ^2 /NDF: 877767.6/30

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

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

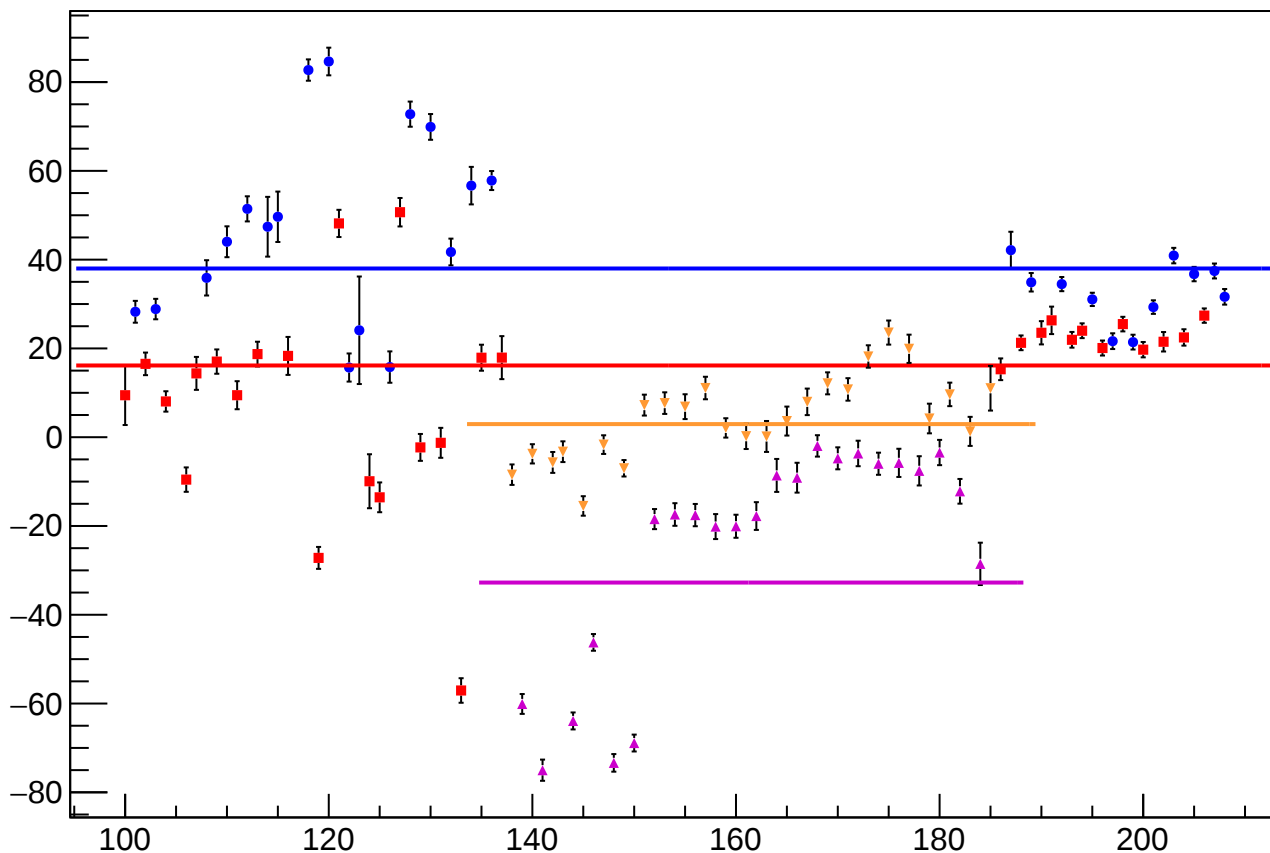
Right: 1750.379 $\pm$ 0.232 χ^2 /NDF: 2099016.4/58

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

Out: 2013.069 $\pm$ 0.251 χ^2 /NDF: 2658931.4/55

All: 1986.995 $\pm$ 0.178 χ^2 /NDF: 5881705.5/10

diff_bpm0i01aX_mean vs Slug, Sign Corrected



Right In: 38.006±/0.431 χ^2/NDF : 1364.2/27

Left Out: 2.952±/0.512 χ^2/NDF :337.8/24

Right Out: 16.158±/0.432 χ^2/NDF : 1670.2/30

Left In: -32.745±/0.526 χ^2/NDF :2632.5/22

Left: -14.409±/0.367 χ^2/NDF : 5335.1/47

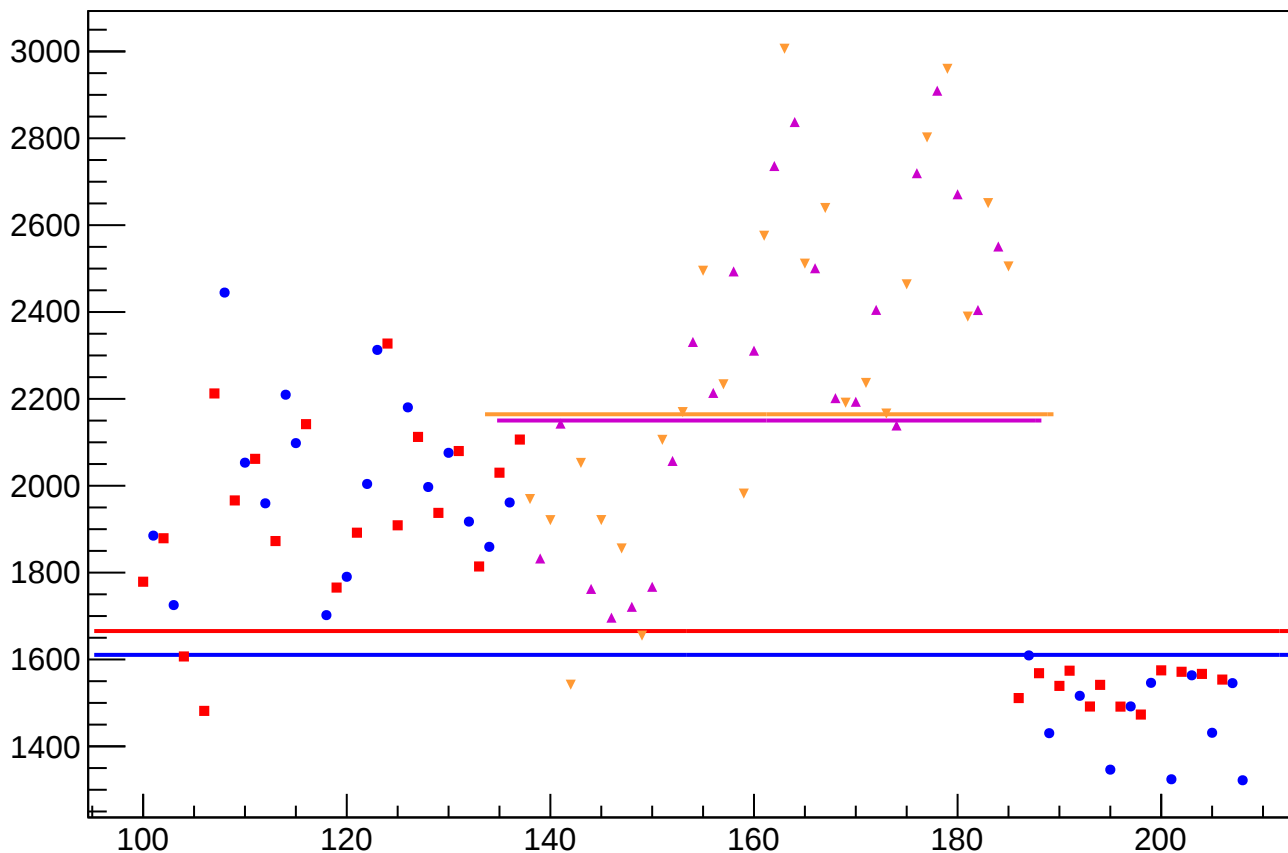
Right: 27.112±/0.305 χ^2/NDF : 4316.3/58

In: 9.602±/0.333 χ^2/NDF :14820.6/50

Out: 10.664±/0.330 χ^2/NDF :2396.6/55

All: 10.138±/0.235 χ^2/NDF : 17222.4/106

diff_bpm0i01aX_rms vs Slug, Sign Corrected



Right In: 1610.595 ± 0.305 $\chi^2/\text{NDF}: 729703.8/27$

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

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

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

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

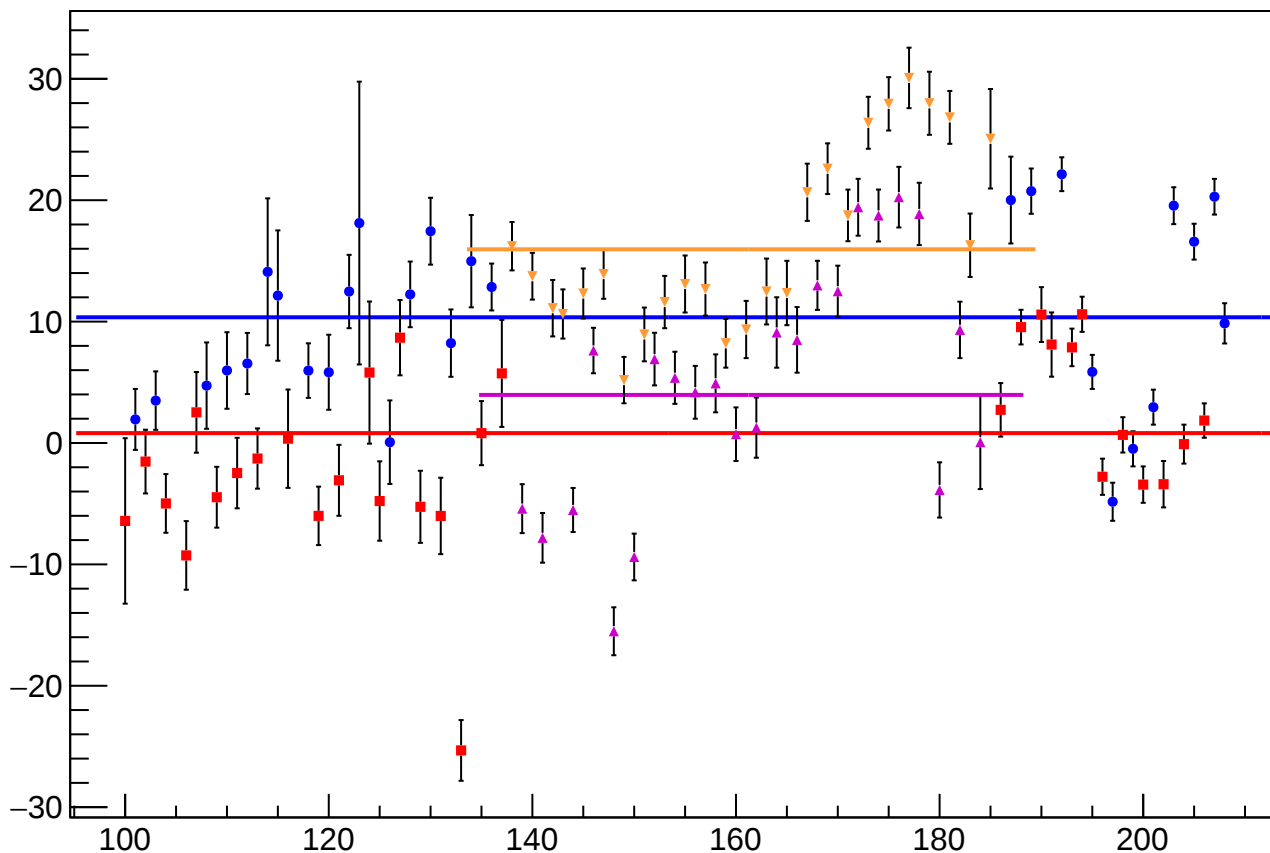
Right: 1637.946 ± 0.216 $\chi^2/\text{NDF}: 1217148.5/58$

In: 1827.223 ± 0.236 $\chi^2/\text{NDF}: 2900721.9/50$

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

All: 1850.381 ± 0.166 $\chi^2/\text{NDF}: 5466978.9/10$

diff_bpm0i01aY_mean vs Slug, Sign Corrected



Right In: 10.355 $\pm$ 0.394 χ^2/NDF : 449.9/27

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

Right Out: 0.815 $\pm$ 0.389 χ^2/NDF : 316.8/30

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

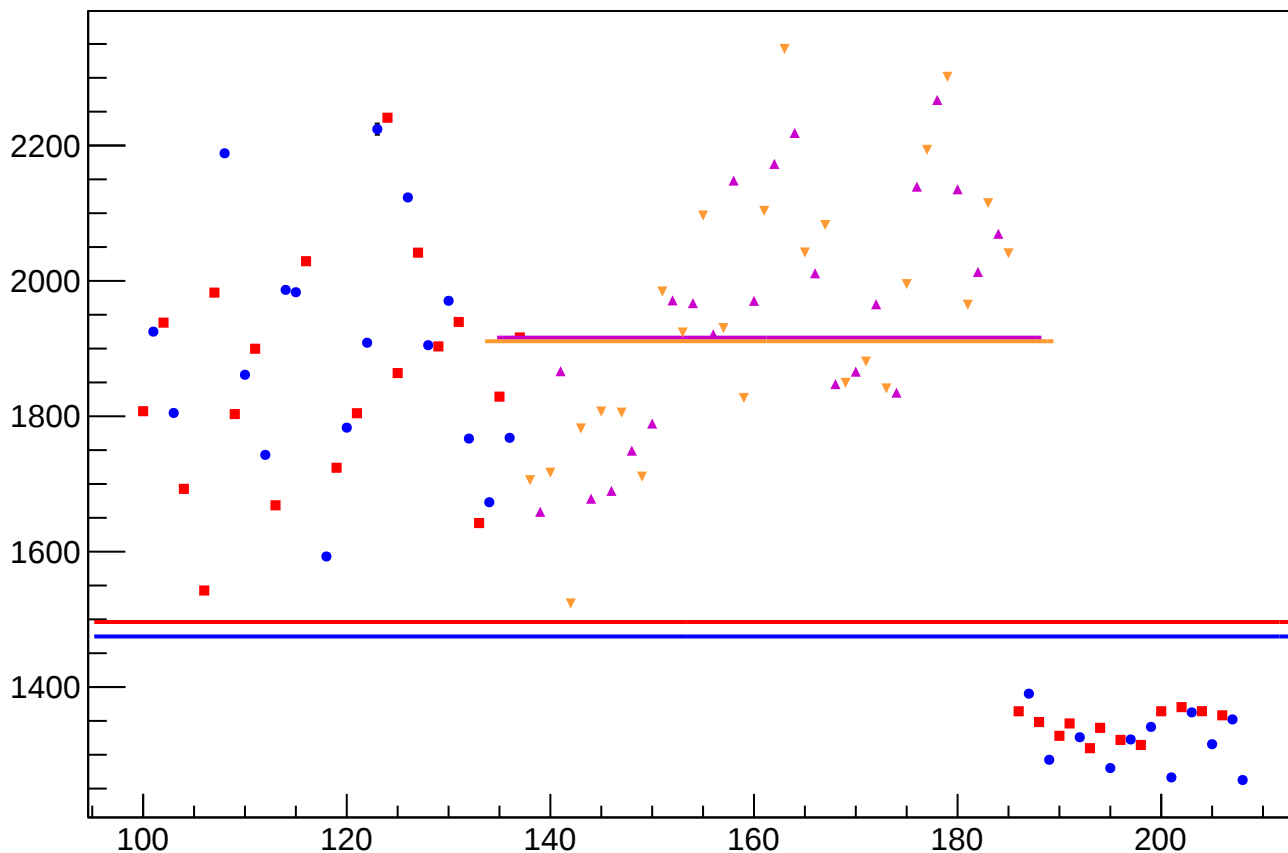
Right: 5.528 $\pm$ 0.277 χ^2/NDF : 1063.4/58

In: 7.668 $\pm$ 0.300 χ^2/NDF : 1025.5/50

Out: 7.339 $\pm$ 0.294 χ^2/NDF : 1213.8/55

All: 7.500 $\pm$ 0.210 χ^2/NDF : 2239.9/106

diff_bpm0i01aY_rms vs Slug, Sign Corrected



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

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

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

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

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

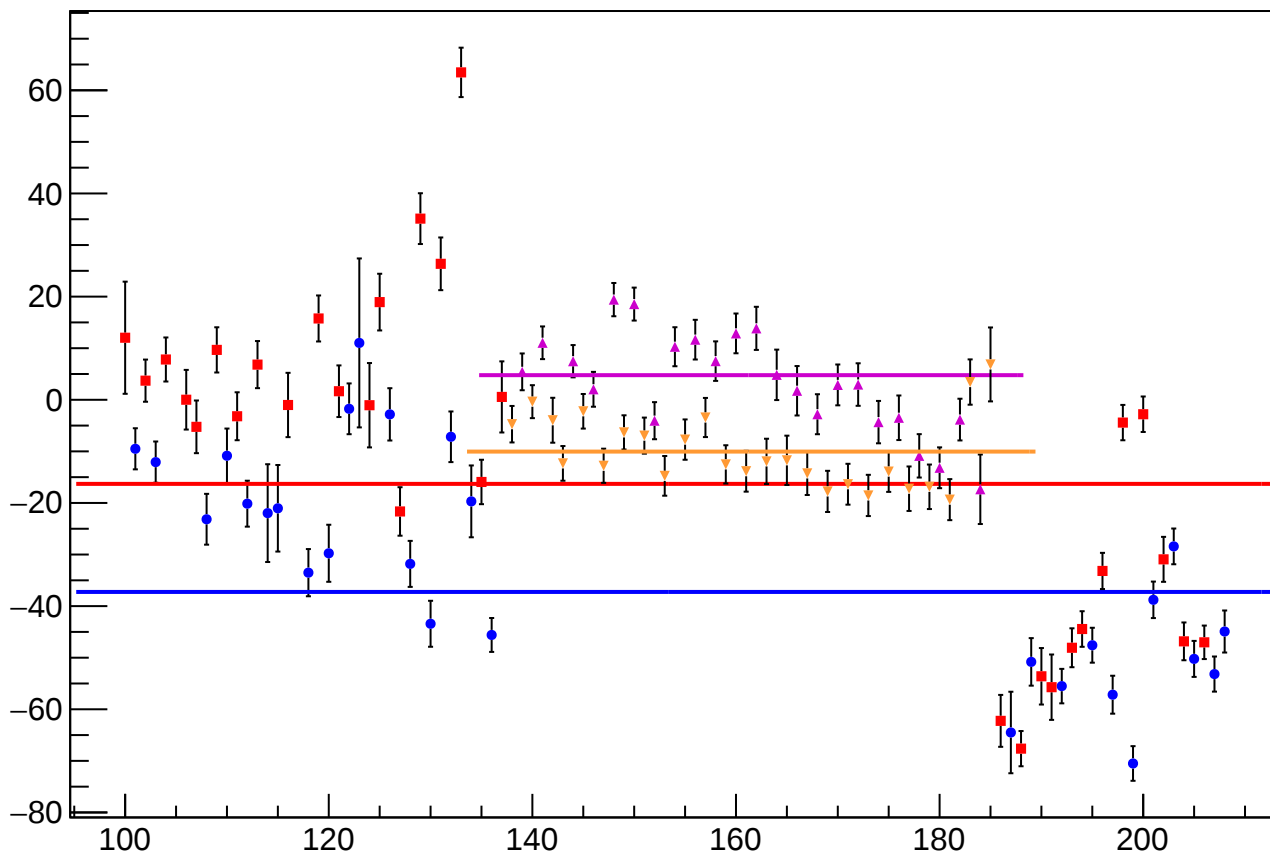
Right: 1485.548 $\pm$ 0.196 χ^2 /NDF: 1583505.8/58

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

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

All: 1667.665 $\pm$ 0.148 χ^2 /NDF: 4219266.6/10

diff_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -37.250 ± 0.818 $\chi^2/\text{NDF}: 538.6/27$

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

Right Out: -16.302 ± 0.802 $\chi^2/\text{NDF}: 1475.4/30$

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

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

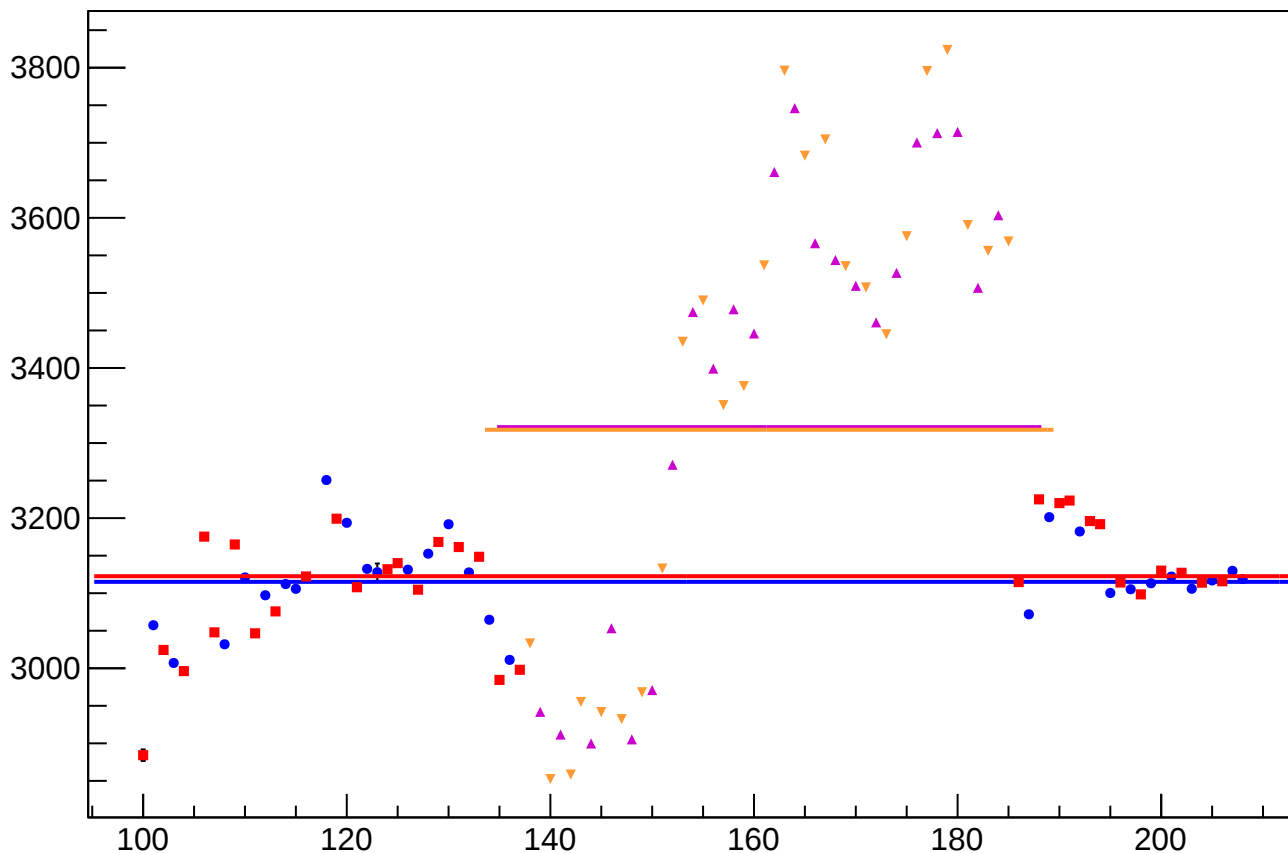
Right: -26.559 ± 0.573 $\chi^2/\text{NDF}: 2348.4/58$

In: -15.771 ± 0.572 $\chi^2/\text{NDF}: 2014.6/50$

Out: -13.071 ± 0.558 $\chi^2/\text{NDF}: 1574.0/55$

All: -14.386 ± 0.399 $\chi^2/\text{NDF}: 3600.0/106$

diff_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 3115.115+/-0.579

χ^2/NDF : 9233.1/27

Left Out: 3317.699+/-0.549

χ^2/NDF : 336877.2/24

Right Out: 3122.607+/-0.567

χ^2/NDF : 13766.8/30

Left In: 3321.275+/-0.566

χ^2/NDF : 284334.2/22

Left: 3319.432+/-0.394 χ^2/NDF : 621232.0/47

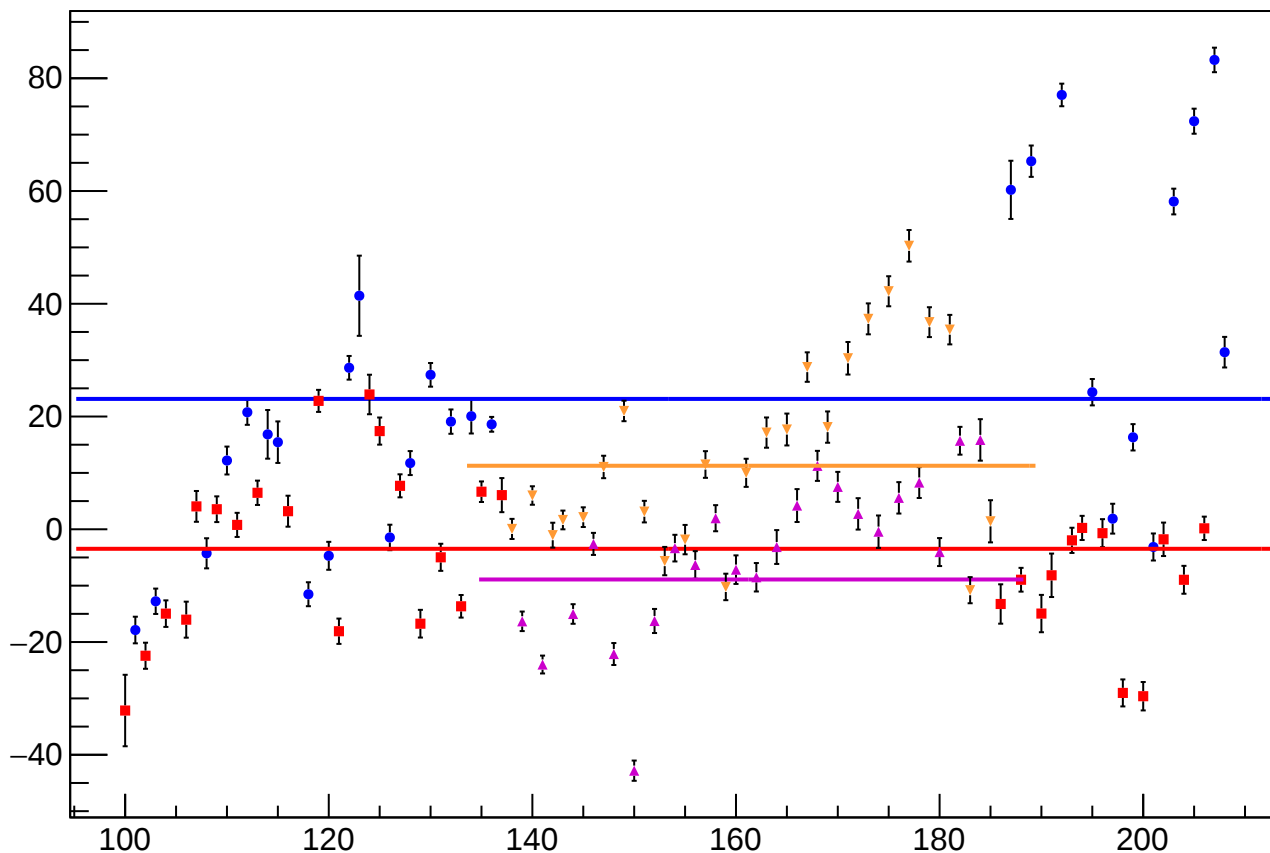
Right: 3118.938+/-0.405 χ^2/NDF : 23085.4/58

In: 3220.485+/-0.405 χ^2/NDF : 358424.1/50

Out: 3223.284+/-0.394 χ^2/NDF : 411767.0/55

All: 3221.921+/-0.282 χ^2/NDF : 770215.6/106

diff_bpm0l01Y_mean vs Slug, Sign Corrected



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

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

Right Out: -3.463 $\pm$ 0.438 χ^2 /NDF: 922.6/30

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

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

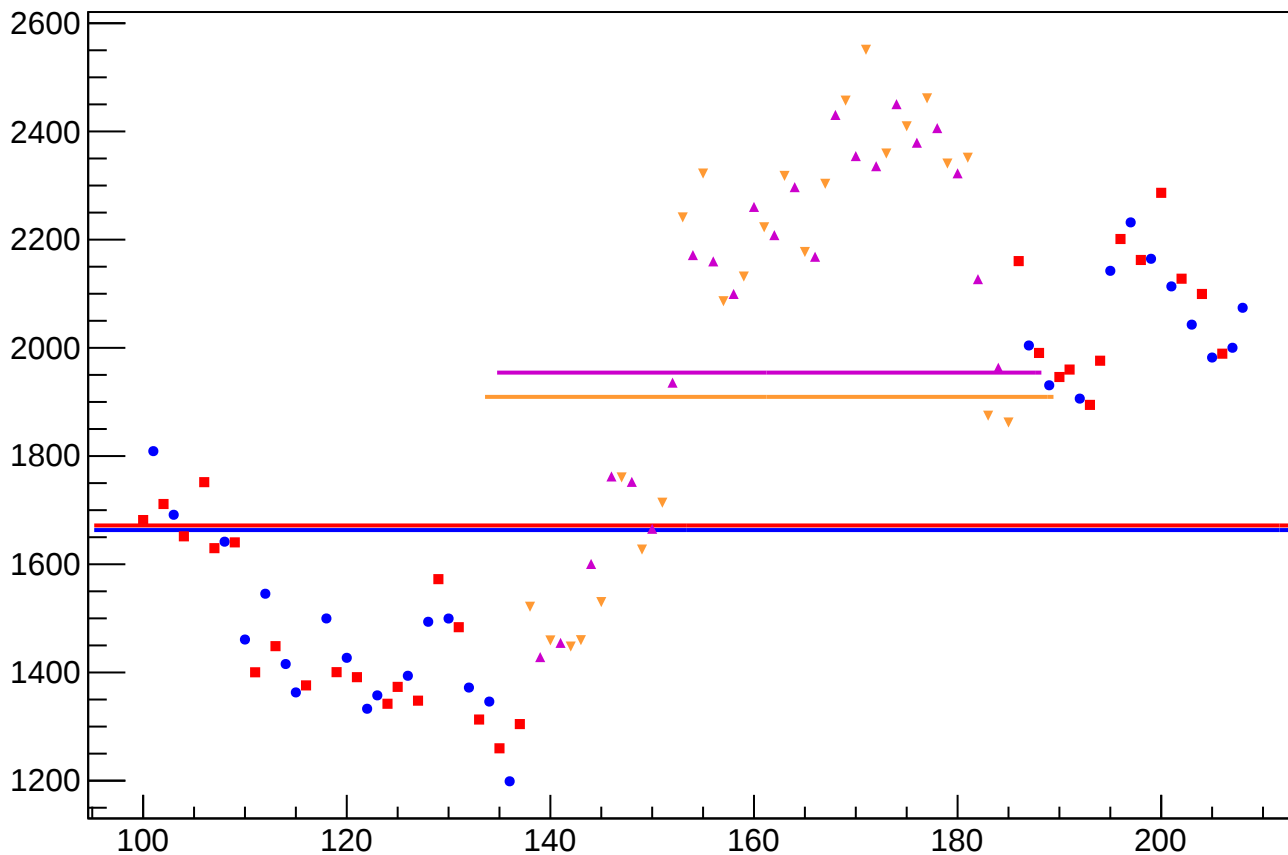
Right: 9.577 $\pm$ 0.312 χ^2 /NDF: 6692.2/58

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

Out: 3.628 $\pm$ 0.315 χ^2 /NDF:2609.6/55

All: 5.835 $\pm$ 0.227 χ^2 /NDF: 10009.4/106

diff_bpm0l01Y_rms vs Slug, Sign Corrected



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

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

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

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

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

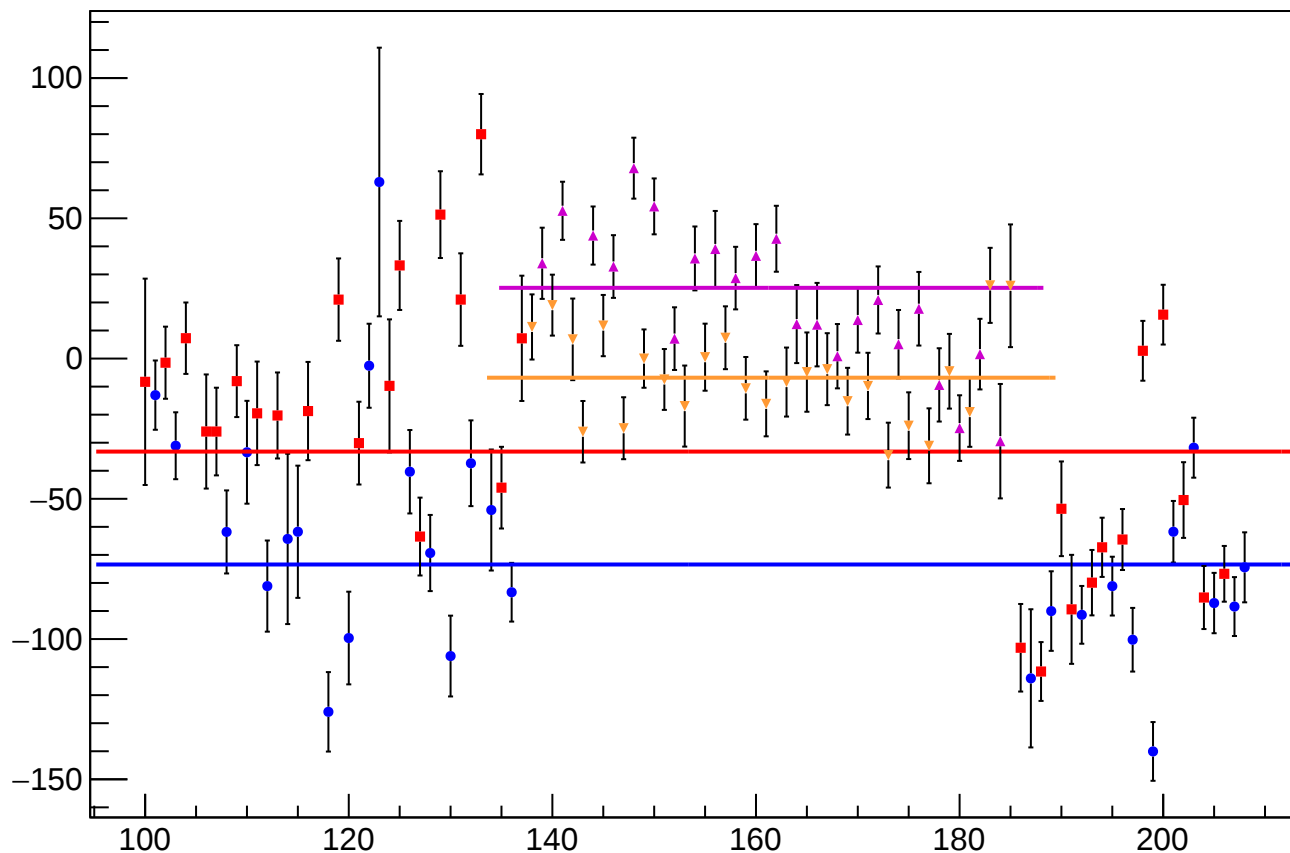
Right: 1667.545 $\pm$ 0.221 χ^2 /NDF: 2153958.1/58

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

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

All: 1792.270 $\pm$ 0.160 χ^2 /NDF: 5278949.3/10

diff_bpm0l02X_mean vs Slug, Sign Corrected



Right In: -73.418 $\pm$ 2.541 χ^2/NDF : 180.4/27

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

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

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

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

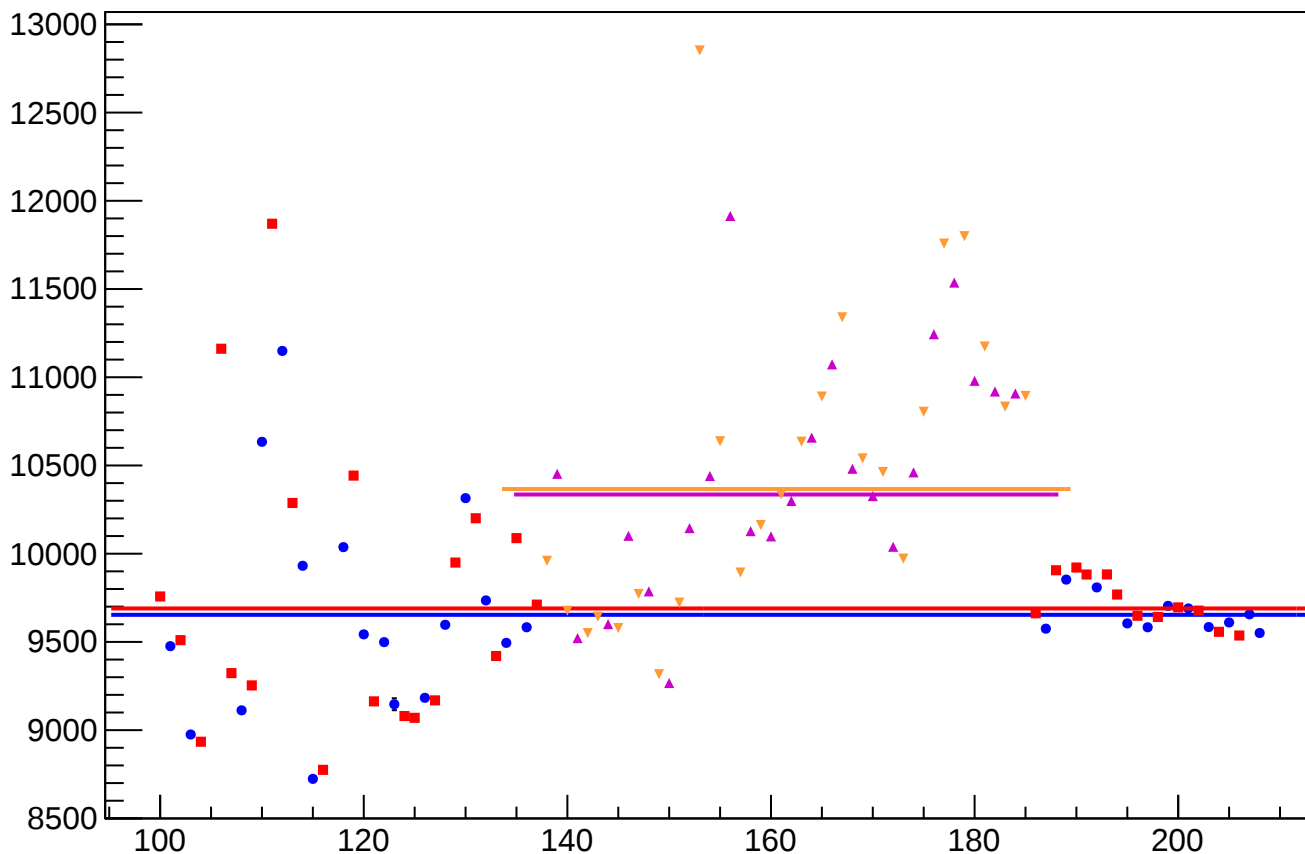
Right: -52.906 $\pm$ 1.780 χ^2/NDF : 670.1/58

In: -23.031 $\pm$ 1.777 χ^2/NDF :1039.3/50

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

All: -21.285 $\pm$ 1.242 χ^2/NDF : 1502.8/106

diff_bpm0l02X_rms vs Slug, Sign Corrected



Right In: 9653.626 ± 1.797 $\chi^2/\text{NDF}: 45316.6/27$

Left Out: 10366.534 ± 1.713 $\chi^2/\text{NDF}: 211402.8/24$

Right Out: 9689.624 ± 1.763 $\chi^2/\text{NDF}: 80341.1/30$

Left In: 10335.399 ± 1.758 $\chi^2/\text{NDF}: 127173.0/22$

Left: 10351.373 ± 1.227 $\chi^2/\text{NDF}: 338736.7/47$

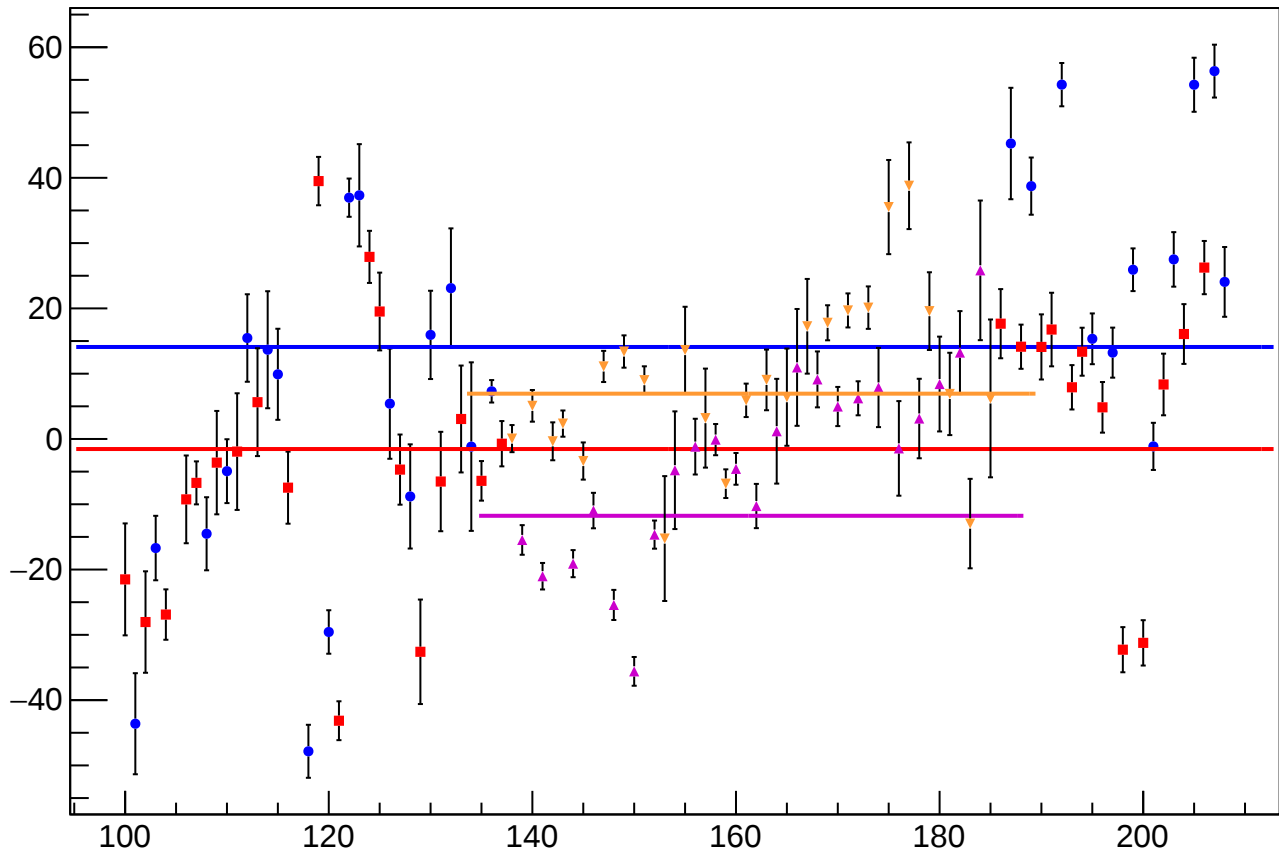
Right: 9671.969 ± 1.258 $\chi^2/\text{NDF}: 125862.2/58$

In: 10001.908 ± 1.257 $\chi^2/\text{NDF}: 246032.9/50$

Out: 10037.787 ± 1.229 $\chi^2/\text{NDF}: 367581.2/55$

All: 10020.254 ± 0.878 $\chi^2/\text{NDF}: 614030.9/10$

diff_bpm0l02Y_mean vs Slug, Sign Corrected



Right In: 14.090 $\pm$ 0.803 χ^2/NDF : 1077.3/27

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

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

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

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

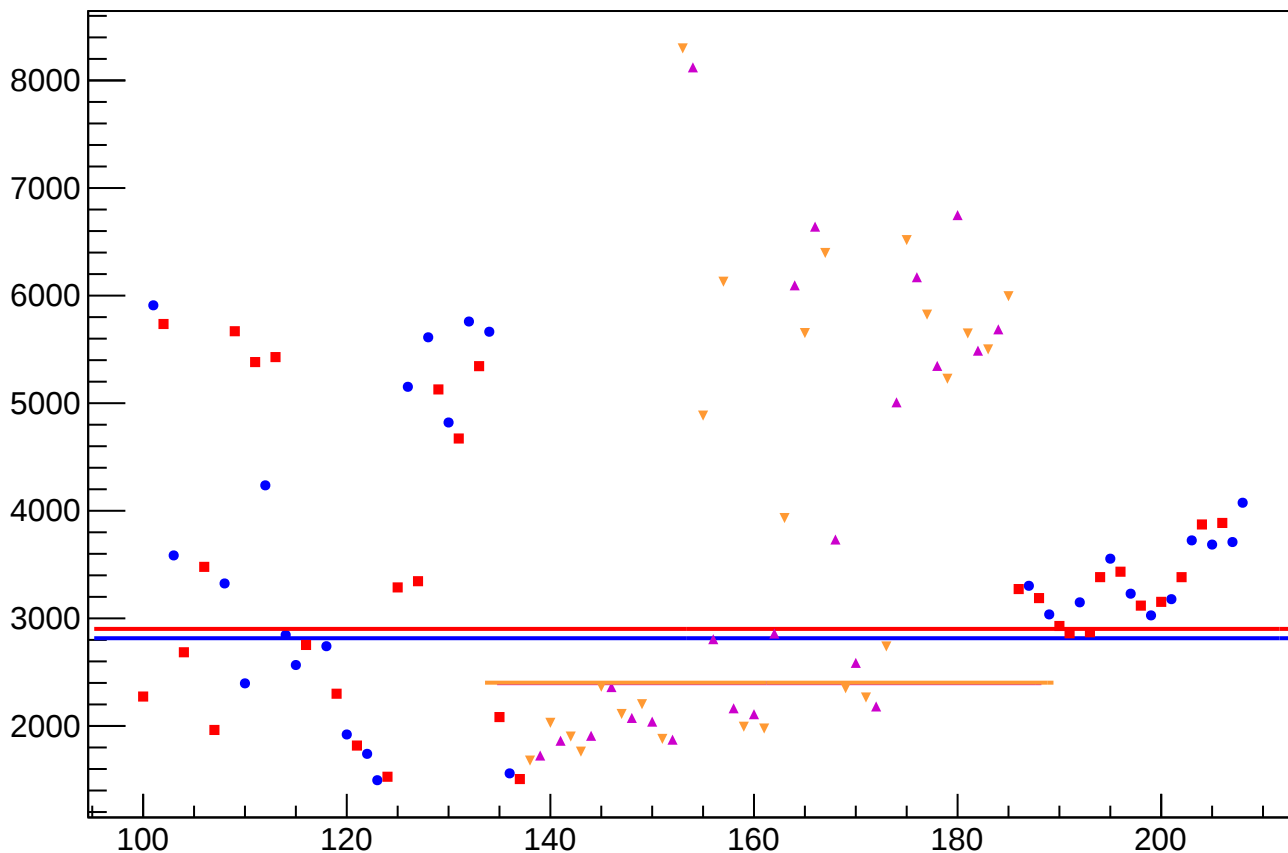
Right: 6.202 $\pm$ 0.565 χ^2/NDF : 2038.1/58

In: -1.562 $\pm$ 0.504 χ^2/NDF :2100.1/50

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

All: 1.060 $\pm$ 0.354 χ^2/NDF : 3195.8/106

diff_bpm0l02Y_rms vs Slug, Sign Corrected



Right In: 2815.475 ± 0.568

χ^2/NDF : 3456751.0/27

Left Out: 2402.359 ± 0.452

χ^2/NDF : 6345982.8/24

Right Out: 2902.181 ± 0.563

χ^2/NDF : 2877857.4/30

Left In: 2397.701 ± 0.458

χ^2/NDF : 5398920.1/22

Left: 2400.065 ± 0.322

χ^2/NDF : 11744955.3/47

Right: 2859.230 ± 0.400

χ^2/NDF : 6346376.3/58

In: 2562.577 ± 0.357

χ^2/NDF : 9183394.1/50

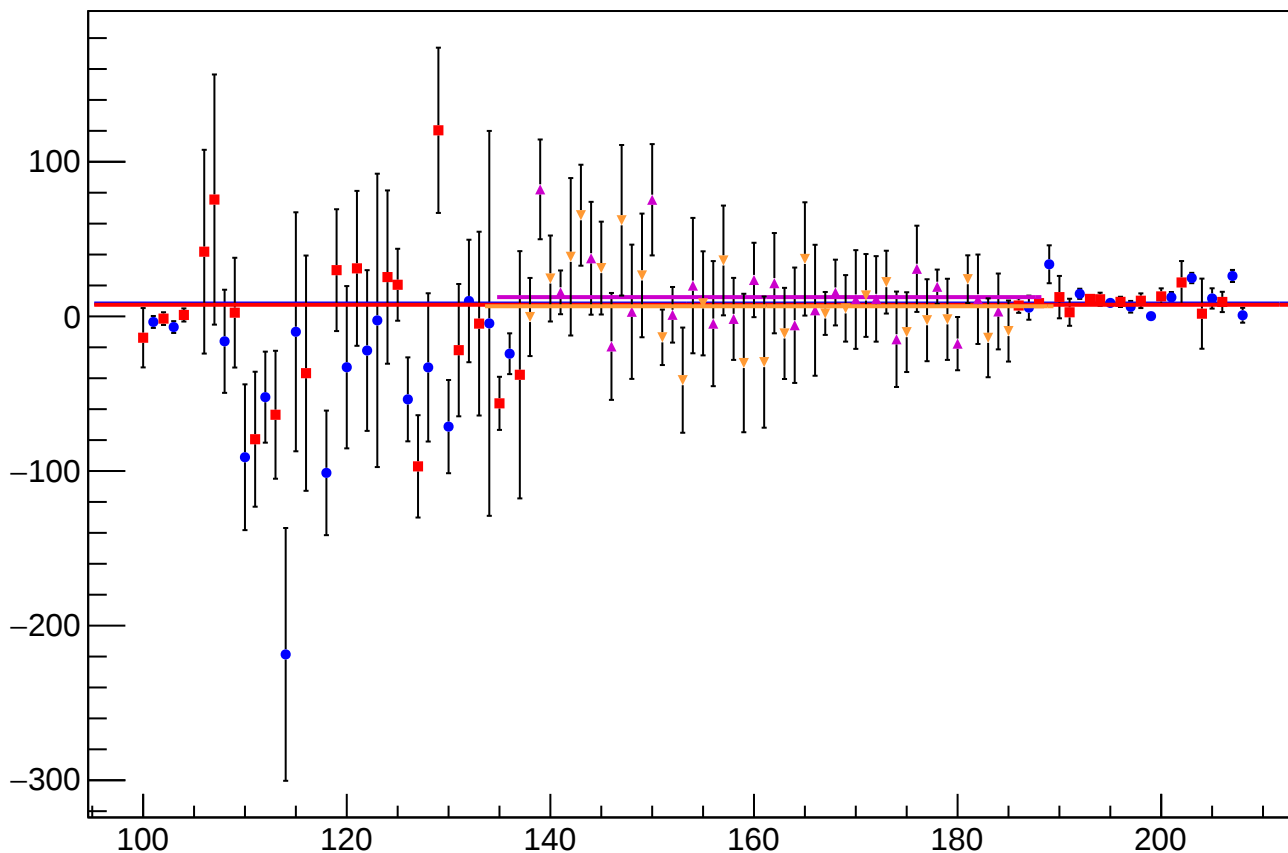
Out: 2598.272 ± 0.352

χ^2/NDF : 9703845.2/55

All: 2580.651 ± 0.251

χ^2/NDF : 18892310.0/1

diff_bpm0l03X_mean vs Slug, Sign Corrected



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

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

Right Out: 7.523 $\pm$ 1.217 χ^2/NDF : 52.5/30

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

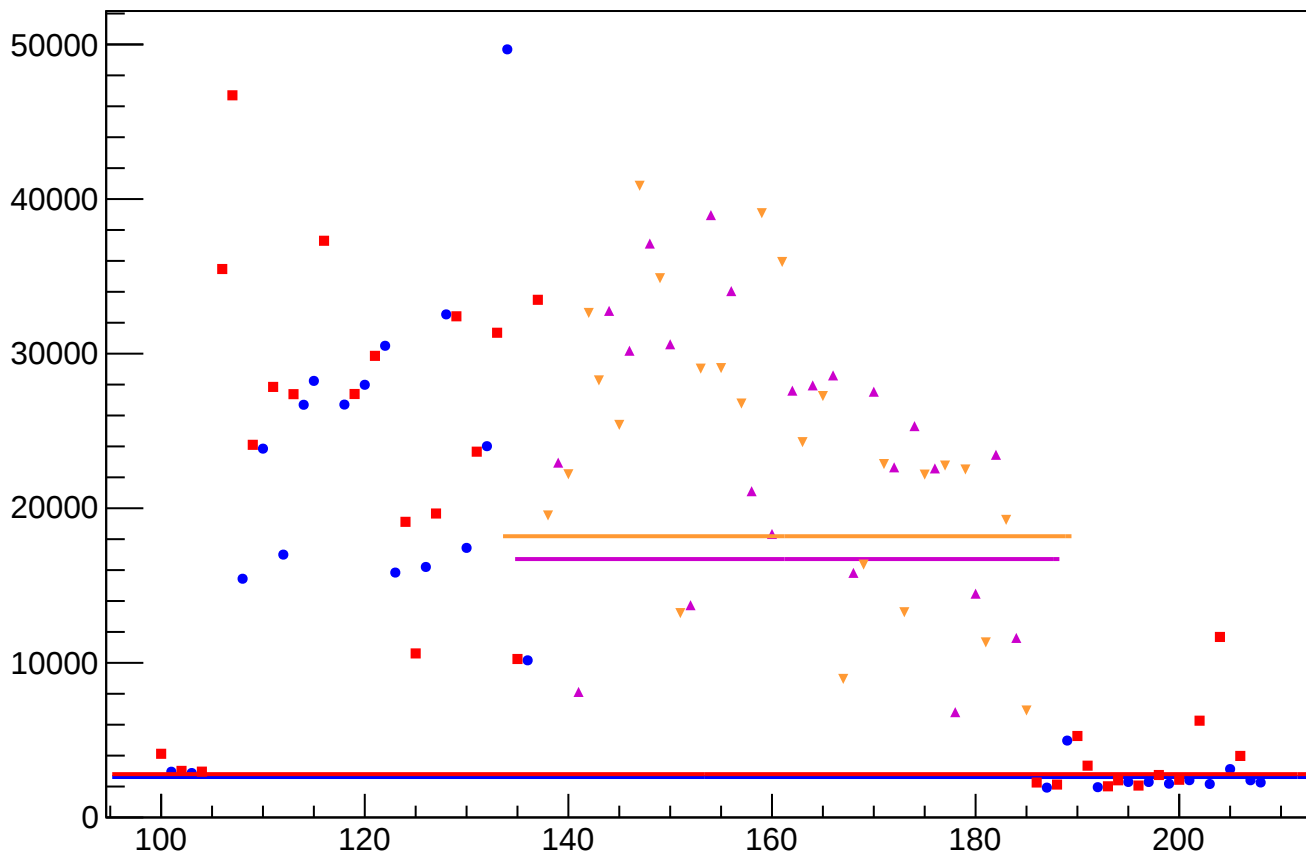
Right: 7.968 $\pm$ 0.812 χ^2/NDF : 187.0/58

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

Out: 7.471 $\pm$ 1.183 χ^2/NDF : 69.3/55

All: 8.046 $\pm$ 0.791 χ^2/NDF : 220.1/106

diff_bpm0l03X_rms vs Slug, Sign Corrected



Right In: 2615.933 ± 0.770

$\chi^2/\text{NDF}: 6997786.7/27$

Left: 17444.397 ± 2.526

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

Left Out: 18190.387 ± 3.590

$\chi^2/\text{NDF}: 5261328.5/24$

Right: 2698.575 ± 0.574

$\chi^2/\text{NDF}: 16078286.9/58$

Right Out: 2801.746 ± 0.861

$\chi^2/\text{NDF}: 9054611.8/30$

In: 3248.485 ± 0.753

$\chi^2/\text{NDF}: 28225824.5/50$

Left In: 16713.653 ± 3.553

$\chi^2/\text{NDF}: 6194178.8/22$

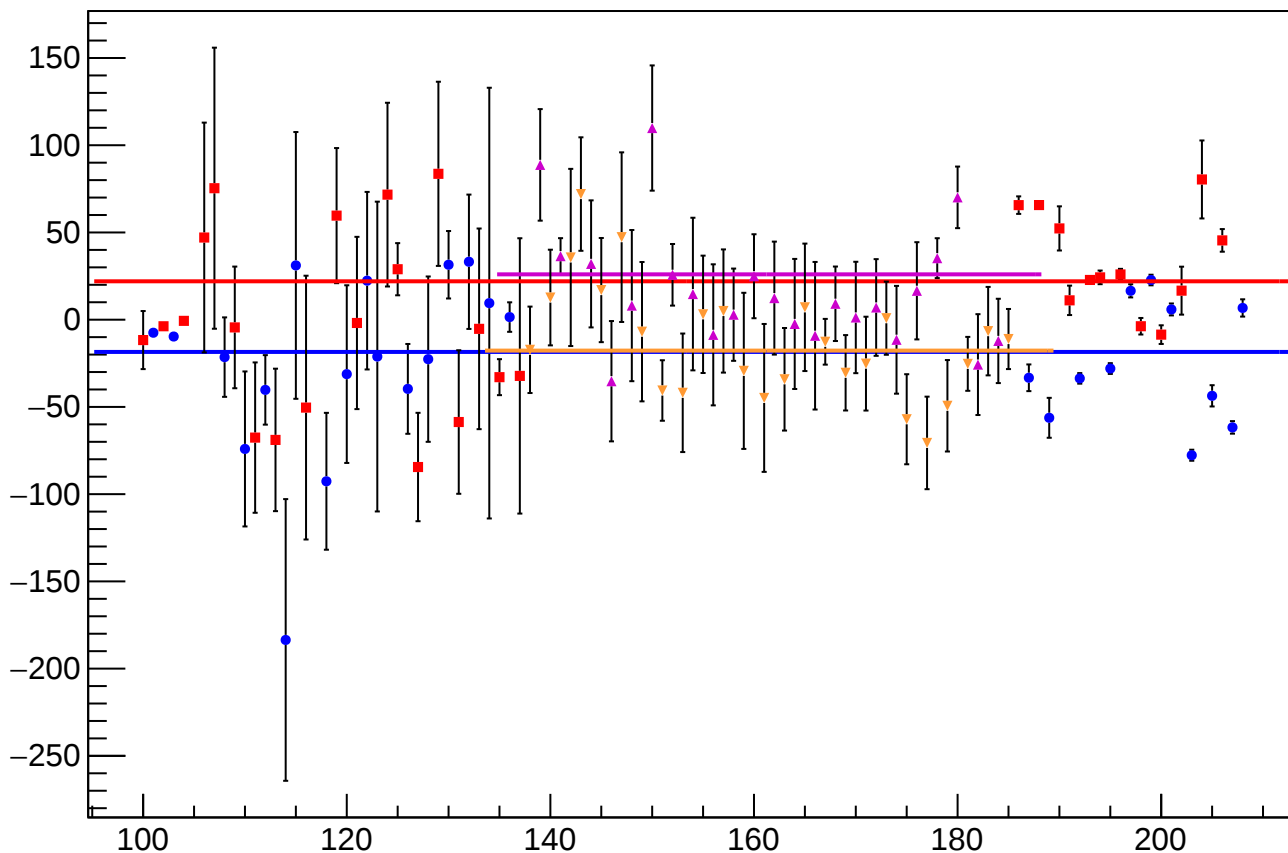
Out: 3637.754 ± 0.837

$\chi^2/\text{NDF}: 31689308.1/55$

All: 3422.574 ± 0.560

$\chi^2/\text{NDF}: 60034746.8/100$

diff_bpm0l03Y_mean vs Slug, Sign Corrected



Right In: -18.478 ± 0.969 χ^2/NDF : 963.4/27

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

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

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

Left: 4.967 ± 3.450 χ^2/NDF : 99.8/47

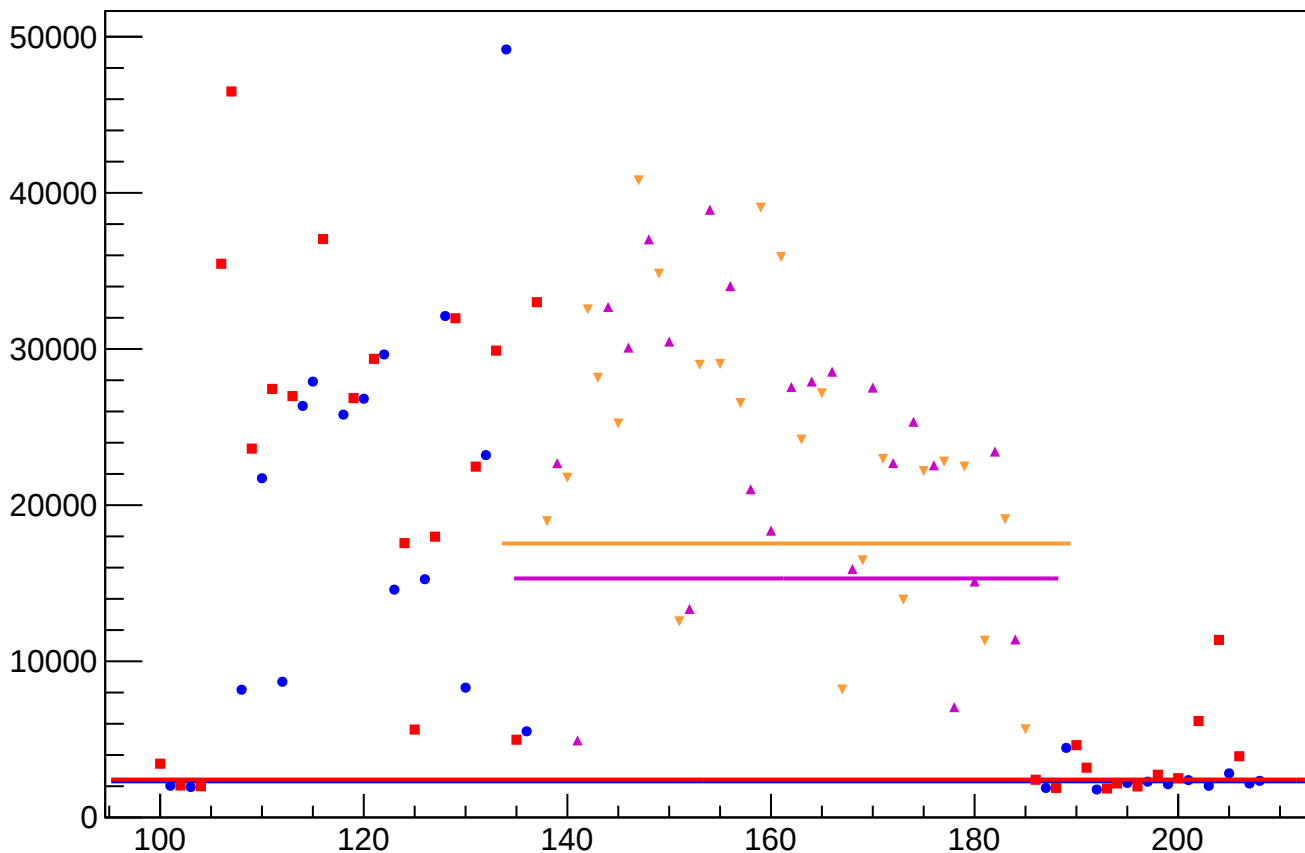
Right: -0.241 ± 0.719 χ^2/NDF : 2387.9/58

In: -16.728 ± 0.950 χ^2/NDF : 1078.9/50

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

All: -0.024 ± 0.703 χ^2/NDF : 2490.0/106

diff_bpm0l03Y_rms vs Slug, Sign Corrected



Right In: 2314.517 ± 0.685 χ^2/NDF : 5812391.2/27

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

Right Out: 2426.685 ± 0.757 χ^2/NDF : 8747159.2/30

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

Left: 16383.216 ± 2.439 χ^2/NDF : 13834445.4/47

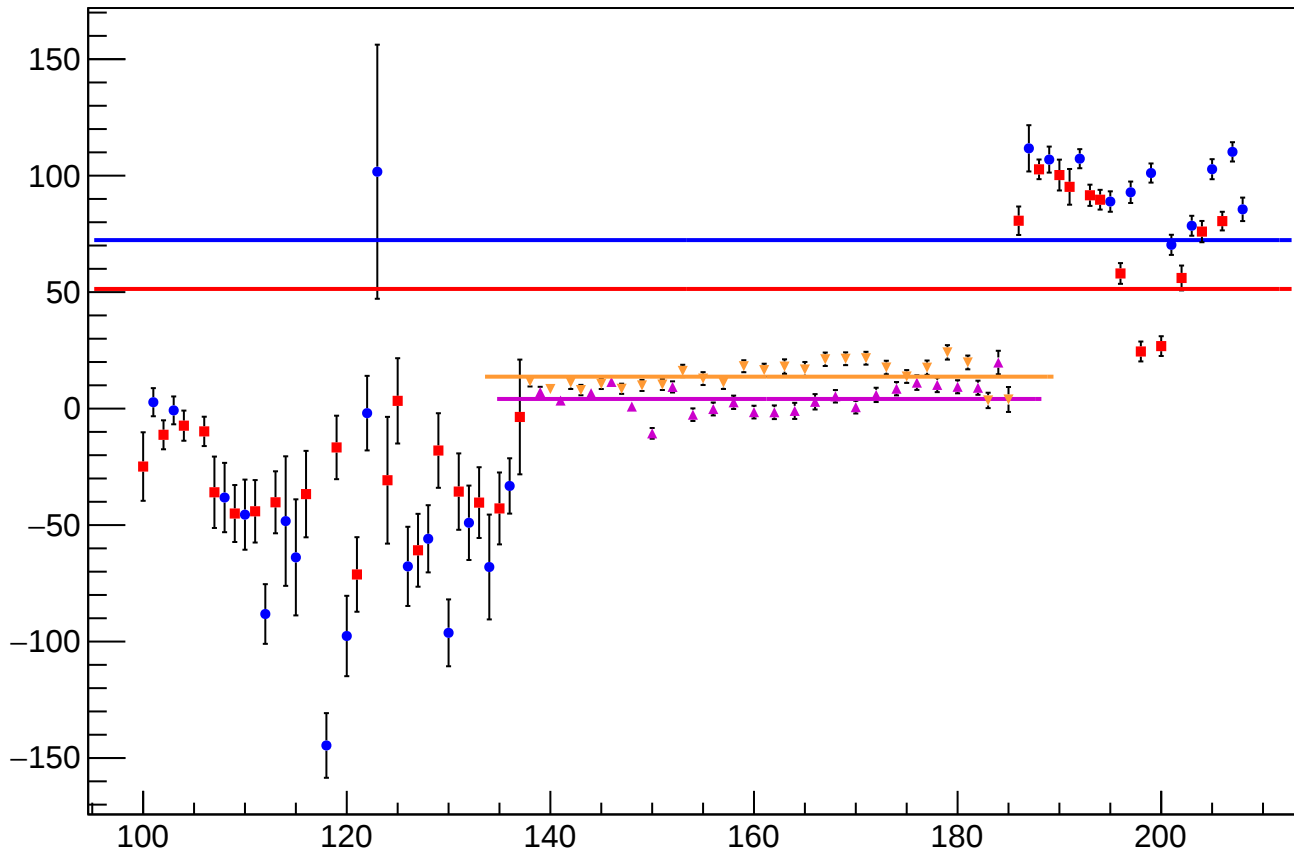
Right: 2365.049 ± 0.508 χ^2/NDF : 14571614.7/58

In: 2825.834 ± 0.672 χ^2/NDF : 27671765.1/50

Out: 3096.035 ± 0.740 χ^2/NDF : 32309656.1/55

All: 2947.903 ± 0.497 χ^2/NDF : 60054501.6/100

diff_bpm0l04X_mean vs Slug, Sign Corrected



Right In: 72.333 $\pm$ 1.258 χ^2 /NDF: 1781.2/27

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

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

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

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

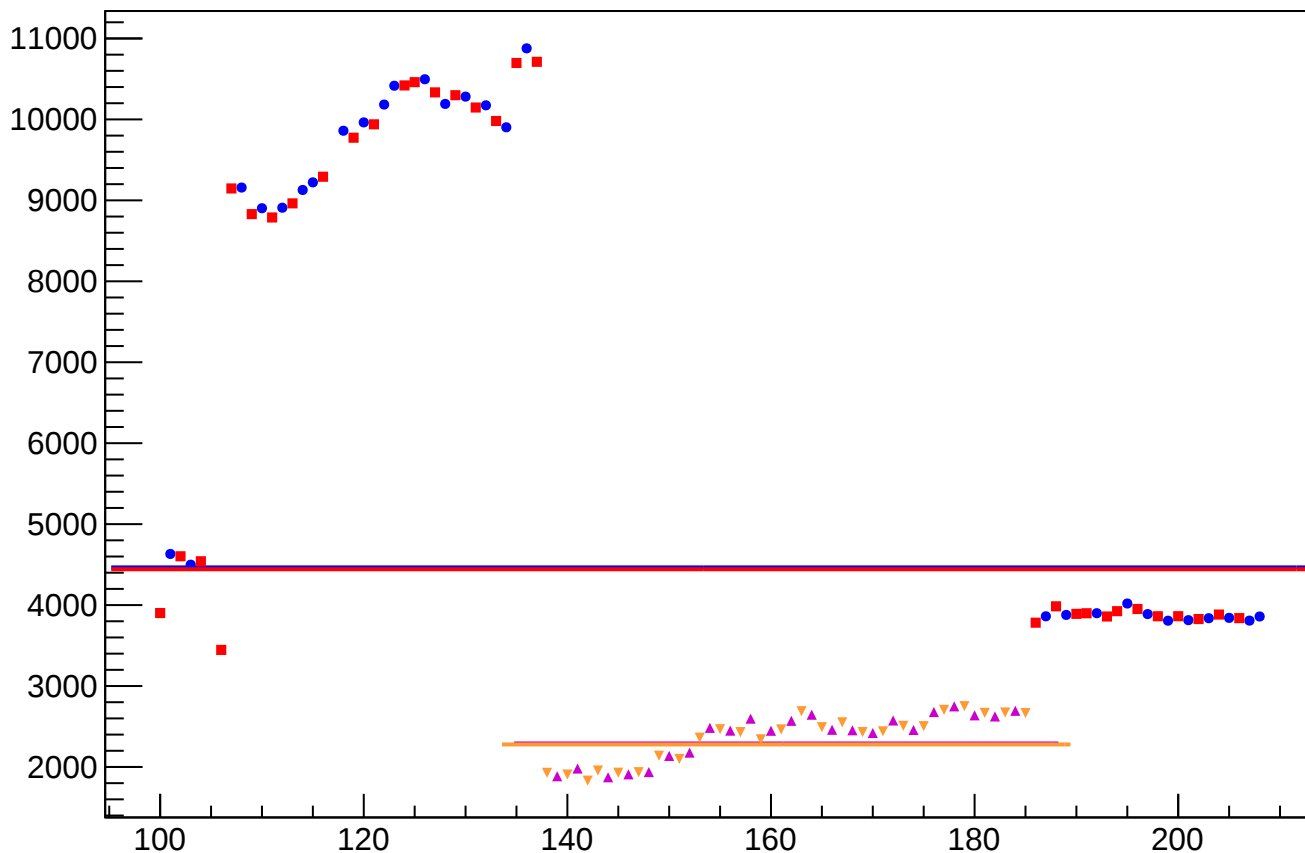
Right: 61.522 $\pm$ 0.875 χ^2 /NDF: 3296.9/58

In: 15.250 $\pm$ 0.508 χ^2 /NDF: 4354.2/50

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

All: 17.604 $\pm$ 0.353 χ^2 /NDF: 6658.1/106

diff_bpm0l04X_rms vs Slug, Sign Corrected



Right In: 4465.482 $\pm$ 0.889 χ^2 /NDF: 3760371.5/27

Left Out: 2278.115 $\pm$ 0.378 χ^2 /NDF: 607109.4/24

Right Out: 4442.482 $\pm$ 0.862 χ^2 /NDF: 3784403.4/30

Left In: 2290.461 $\pm$ 0.392 χ^2 /NDF: 590272.1/22

Left: 2284.067 $\pm$ 0.272 χ^2 /NDF: 1197894.4/47

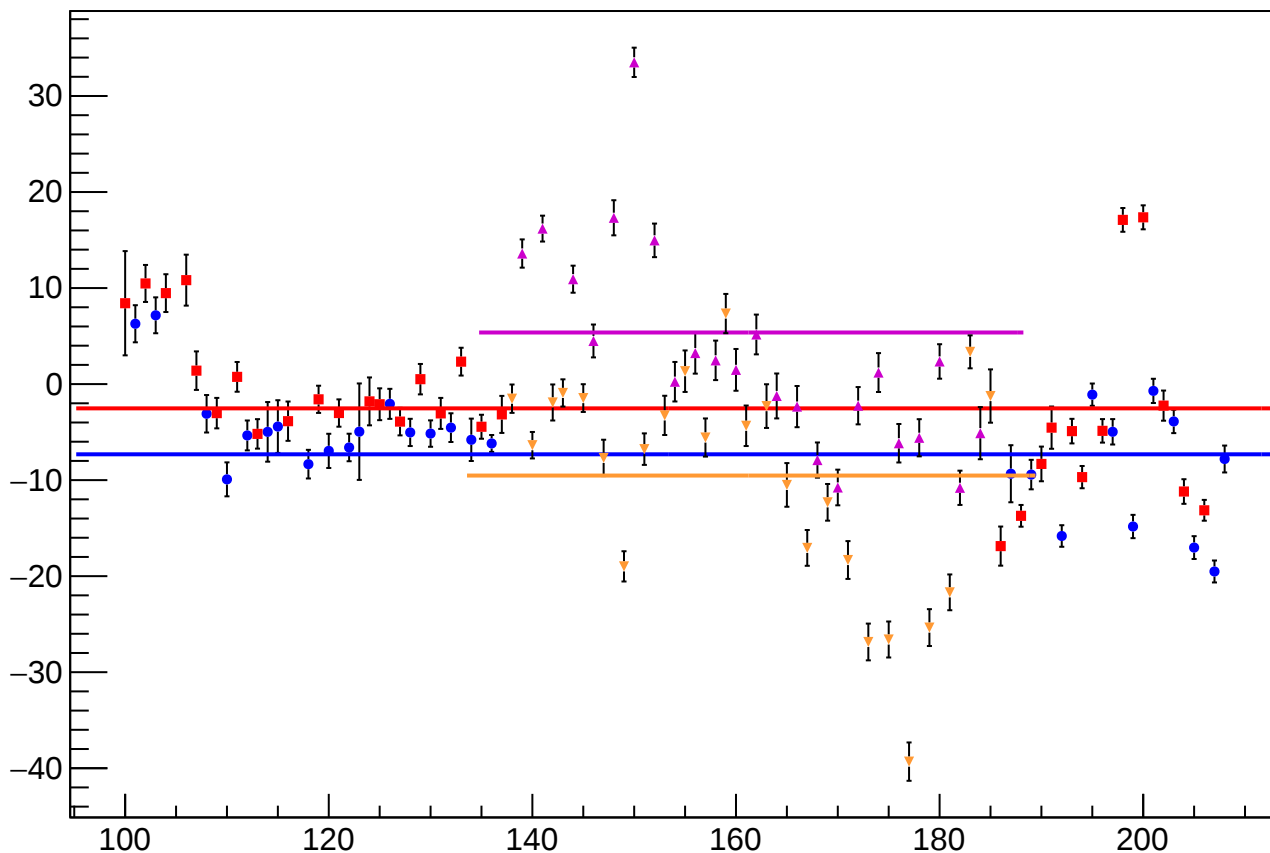
Right: 4453.623 $\pm$ 0.619 χ^2 /NDF: 7545119.8/58

In: 2644.812 $\pm$ 0.359 χ^2 /NDF: 9358502.7/50

Out: 2627.998 $\pm$ 0.347 χ^2 /NDF: 9678030.7/55

All: 2636.110 $\pm$ 0.249 χ^2 /NDF: 19037669.1/112

diff_bpm0l04Y_mean vs Slug, Sign Corrected



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

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

Right Out: -2.528±/0.274 χ^2/NDF : 993.8/30

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

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

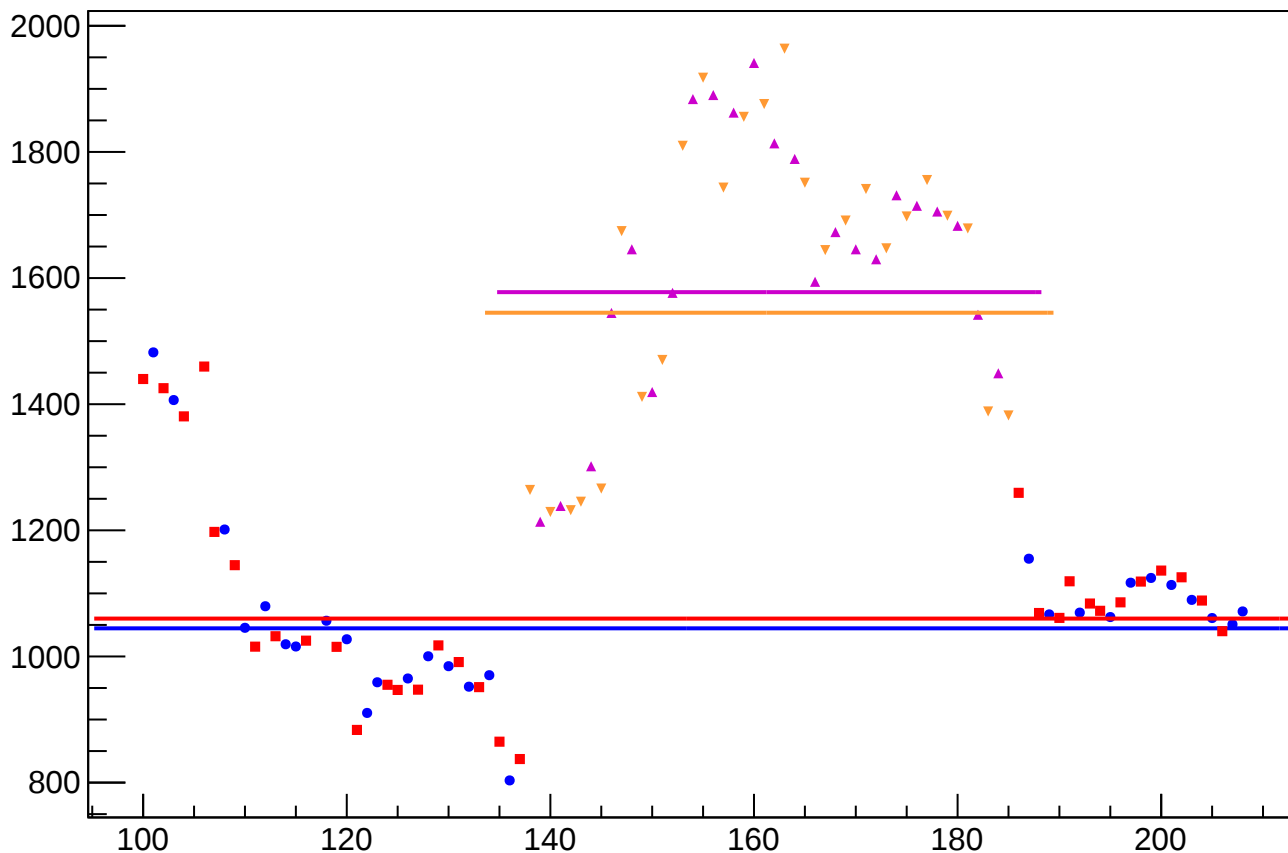
Right: -4.898±/0.195 χ^2/NDF : 1633.4/58

In: -2.963±/0.224 χ^2/NDF :2079.6/50

Out: -5.052±/0.219 χ^2/NDF :2113.1/55

All: -4.032±/0.157 χ^2/NDF : 4237.0/106

diff_bpm0l04Y_rms vs Slug, Sign Corrected



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

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

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

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

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

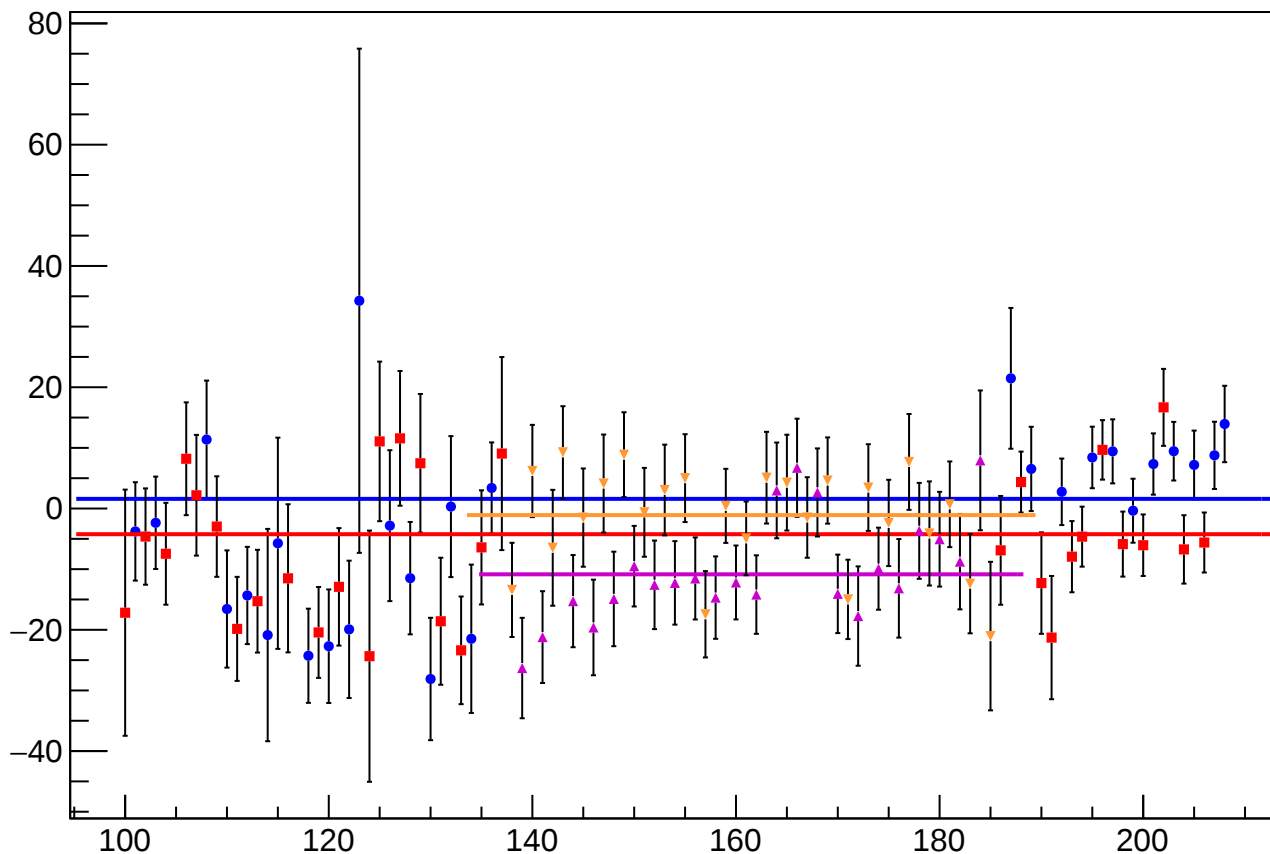
Right: 1052.401 $\pm$ 0.138 χ^2 /NDF: 801899.7/58

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

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

All: 1231.261 $\pm$ 0.111 χ^2 /NDF: 7075935.9/10

diff_bpm0l05X_mean vs Slug, Sign Corrected



Right In: 1.593 $\pm$ 1.394 χ^2/NDF : 65.6/27

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

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

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

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

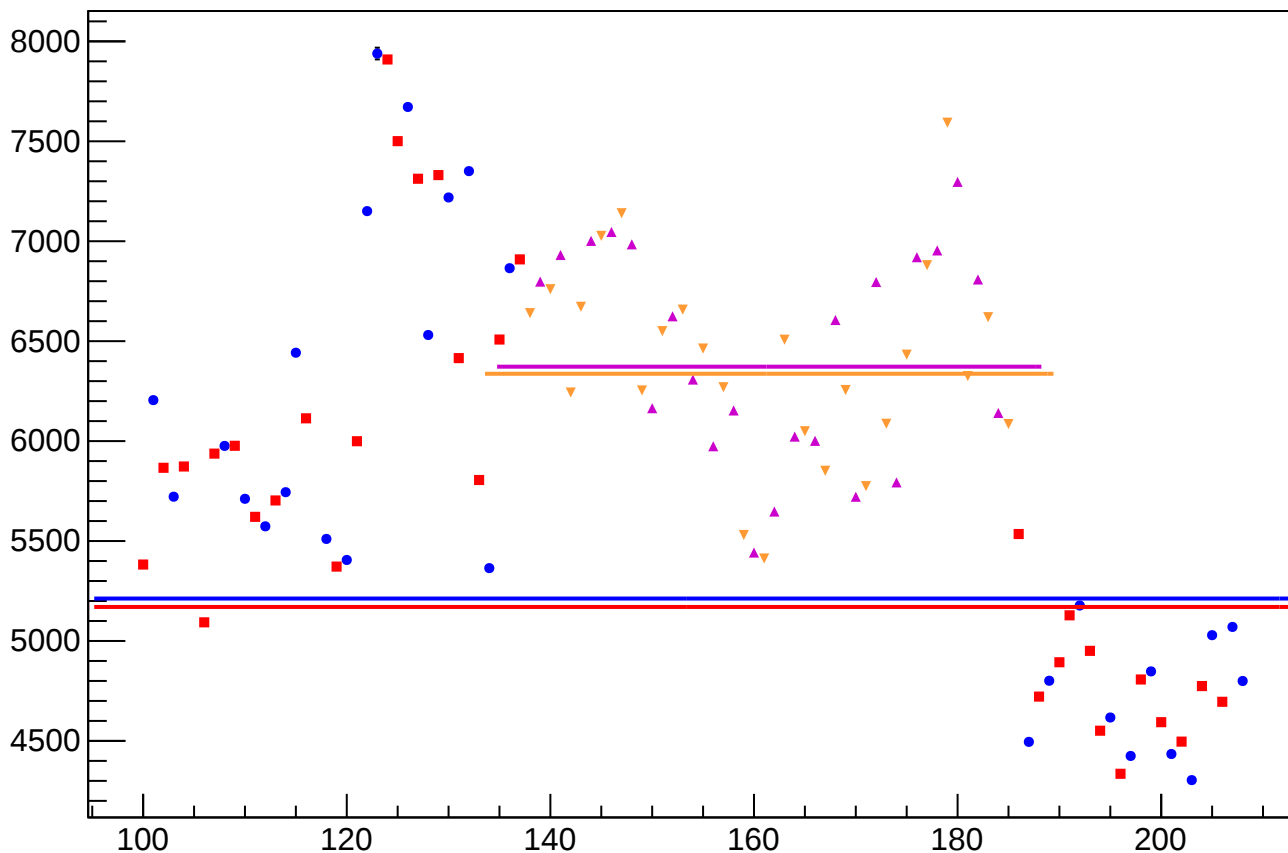
Right: -1.419 $\pm$ 0.969 χ^2/NDF : 127.4/58

In: -4.003 $\pm$ 1.034 χ^2/NDF : 125.8/50

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

All: -3.388 $\pm$ 0.718 χ^2/NDF : 209.3/106

diff_bpm0l05X_rms vs Slug, Sign Corrected



Right In: 5212.298 $\pm$ 0.985 χ^2/NDF : 732386.4/27

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

Right Out: 5170.157 $\pm$ 0.953 χ^2/NDF : 647669.0/30

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

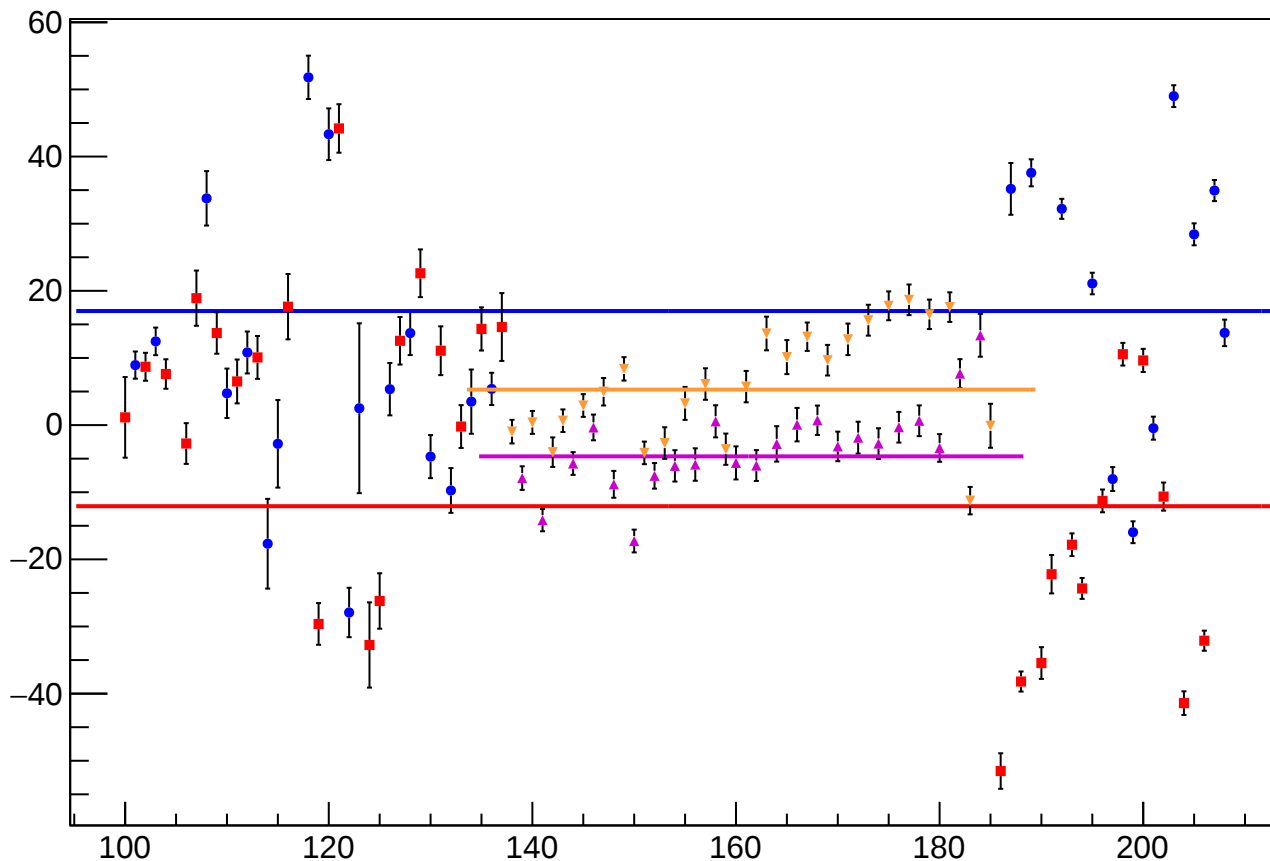
Right: 5190.524 $\pm$ 0.685 χ^2/NDF : 1381000.3/58

In: 5733.945 $\pm$ 0.731 χ^2/NDF : 1602861.2/50

Out: 5696.294 $\pm$ 0.706 χ^2/NDF : 1546445.4/55

All: 5714.469 $\pm$ 0.508 χ^2/NDF : 3150678.8/10

diff_bpm0l05Y_mean vs Slug, Sign Corrected



Right In: 16.990 $\pm$ 0.440 χ^2 /NDF: 2070.8/27

Left Out: 5.284 $\pm$ 0.421 χ^2 /NDF:366.1/24

Right Out: -12.079 $\pm$ 0.431 χ^2 /NDF: 2535.6/30

Left In: -4.657 $\pm$ 0.443 χ^2 /NDF:196.5/22

Left: 0.574 $\pm$ 0.305 χ^2 /NDF: 827.2/47

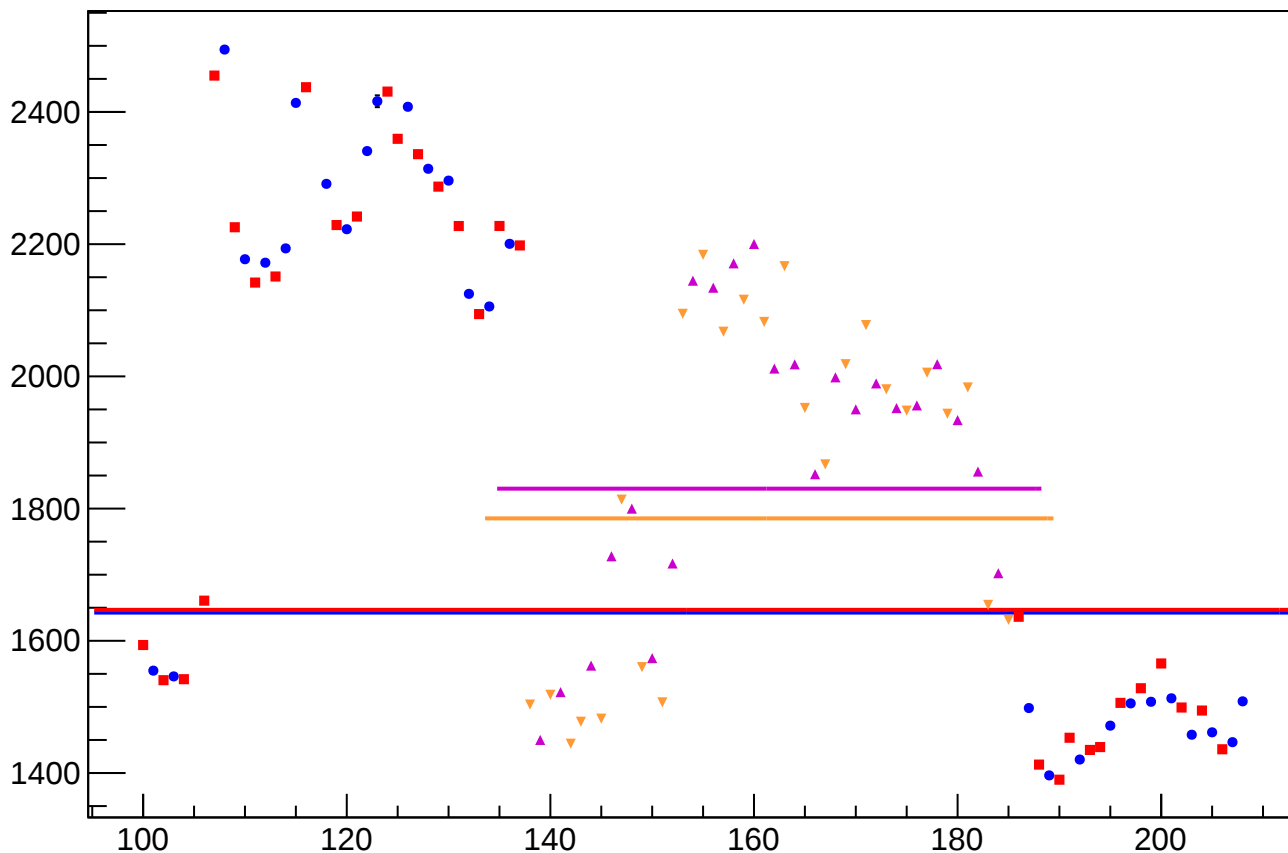
Right: 2.148 $\pm$ 0.308 χ^2 /NDF: 6835.5/58

In: 6.250 $\pm$ 0.312 χ^2 /NDF:3468.6/50

Out: -3.193 $\pm$ 0.301 χ^2 /NDF:3733.3/55

All: 1.354 $\pm$ 0.217 χ^2 /NDF: 7675.9/106

diff_bpm0l05Y_rms vs Slug, Sign Corrected



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

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

Right Out: 1646.840 ± 0.305 $\chi^2/\text{NDF}: 1082353.5/30$

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

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

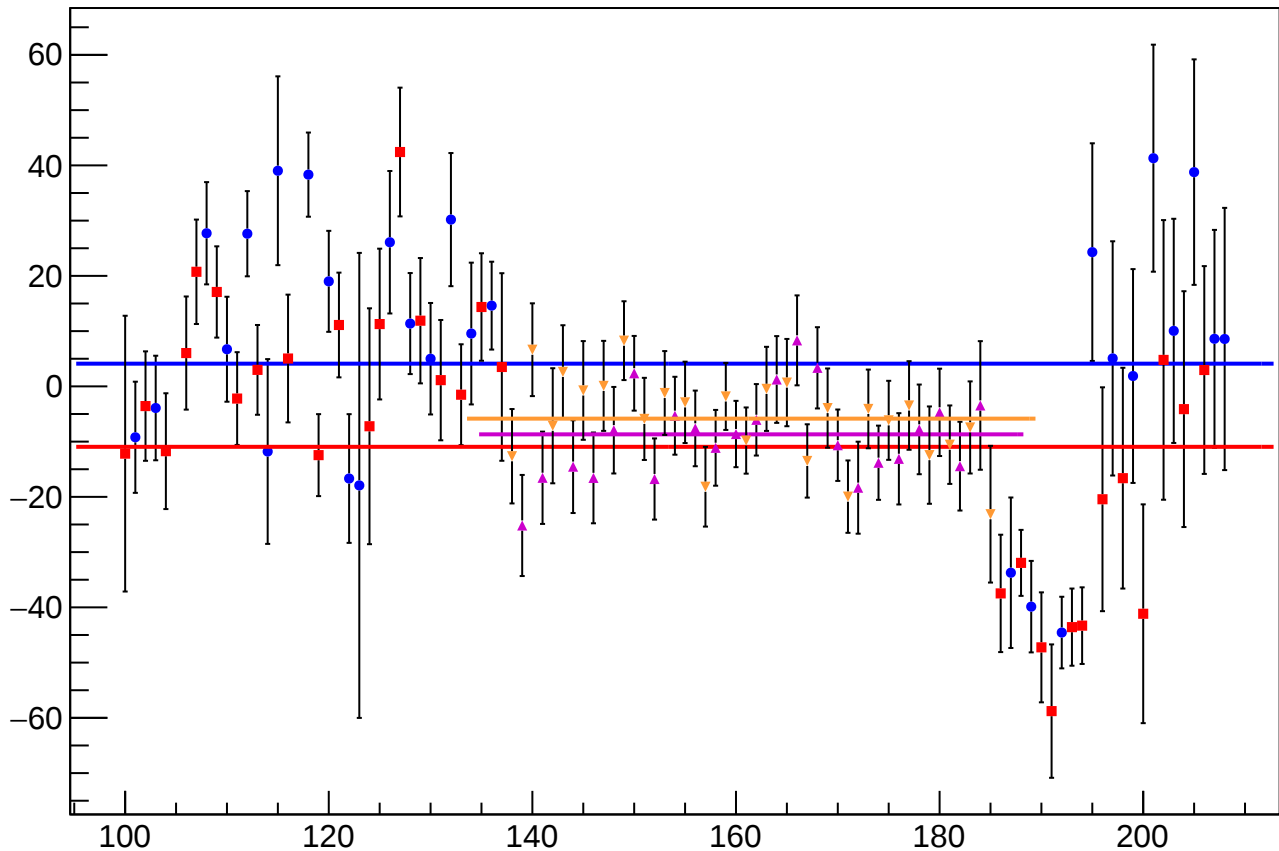
Right: 1644.820 ± 0.218 $\chi^2/\text{NDF}: 2165892.5/58$

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

Out: 1717.641 ± 0.213 $\chi^2/\text{NDF}: 1938568.6/55$

All: 1726.344 ± 0.153 $\chi^2/\text{NDF}: 3714028.8/10$

diff_bpm0l06X_mean vs Slug, Sign Corrected



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

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

Right Out: -10.942 ± 1.861 χ^2/NDF : 169.8/30

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

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

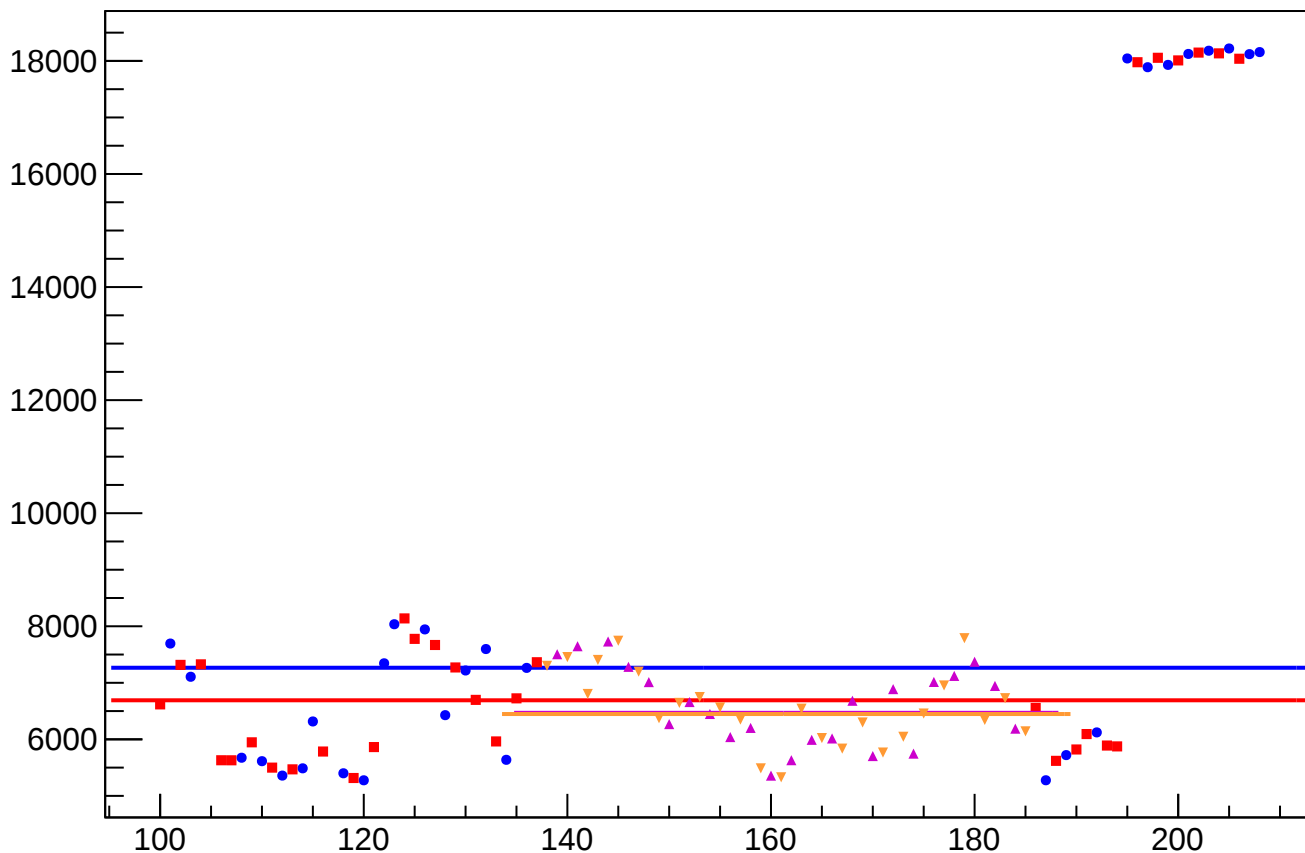
Right: -4.365 ± 1.396 χ^2/NDF : 358.0/58

In: -4.128 ± 1.260 χ^2/NDF : 205.2/50

Out: -7.879 ± 1.176 χ^2/NDF : 197.7/55

All: -6.133 ± 0.860 χ^2/NDF : 407.6/106

diff_bpm0l06X_rms vs Slug, Sign Corrected



Right In: 7266.349+/-1.494 χ^2/NDF : 5170580.3/27

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

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

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

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

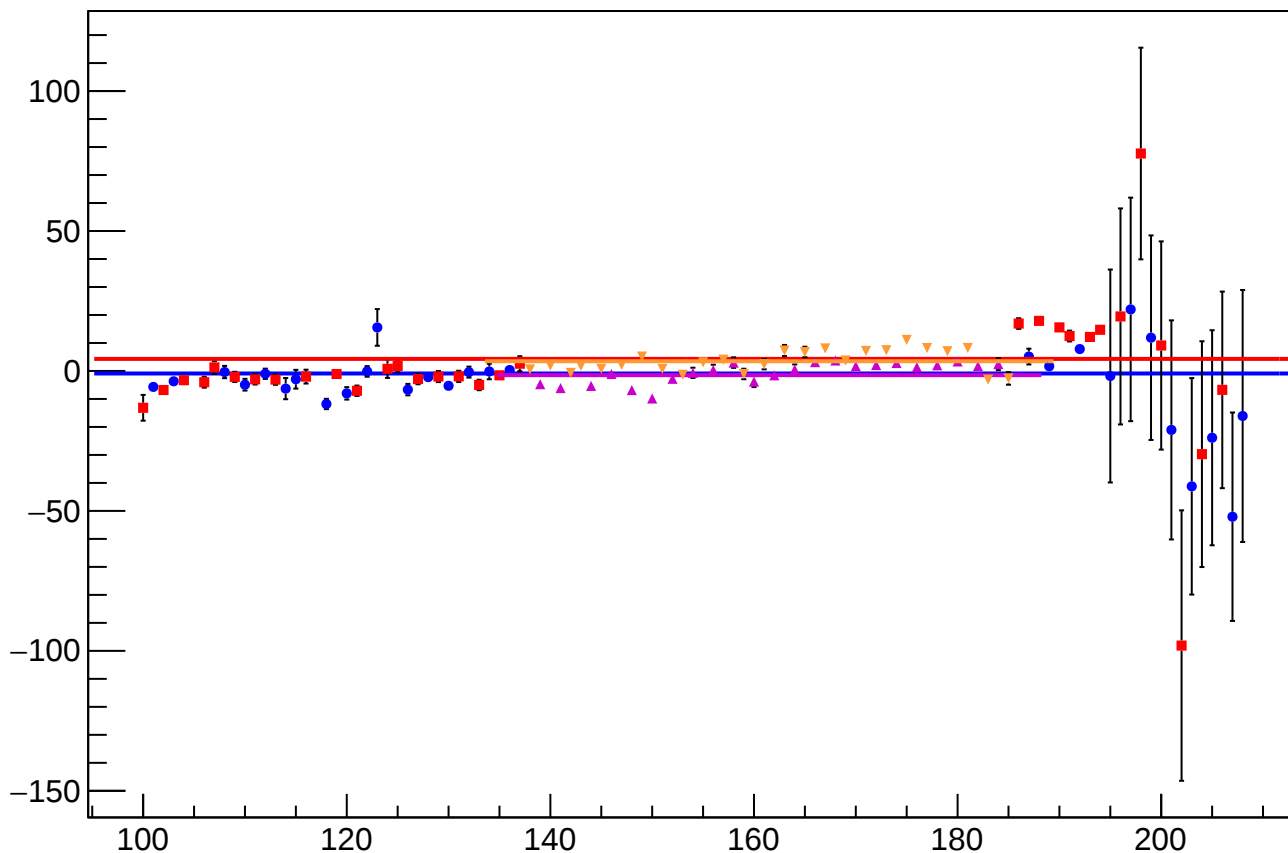
Right: 6942.262+/-0.987 χ^2/NDF : 9344018.7/58

In: 6752.820+/-0.891 χ^2/NDF : 5737478.4/50

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

All: 6641.674+/-0.608 χ^2/NDF : 10248547.7/112

diff_bpm0l06Y_mean vs Slug, Sign Corrected



Right In: -0.903 ± 0.406 $\chi^2/\text{NDF}: 175.5/27$

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

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

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

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

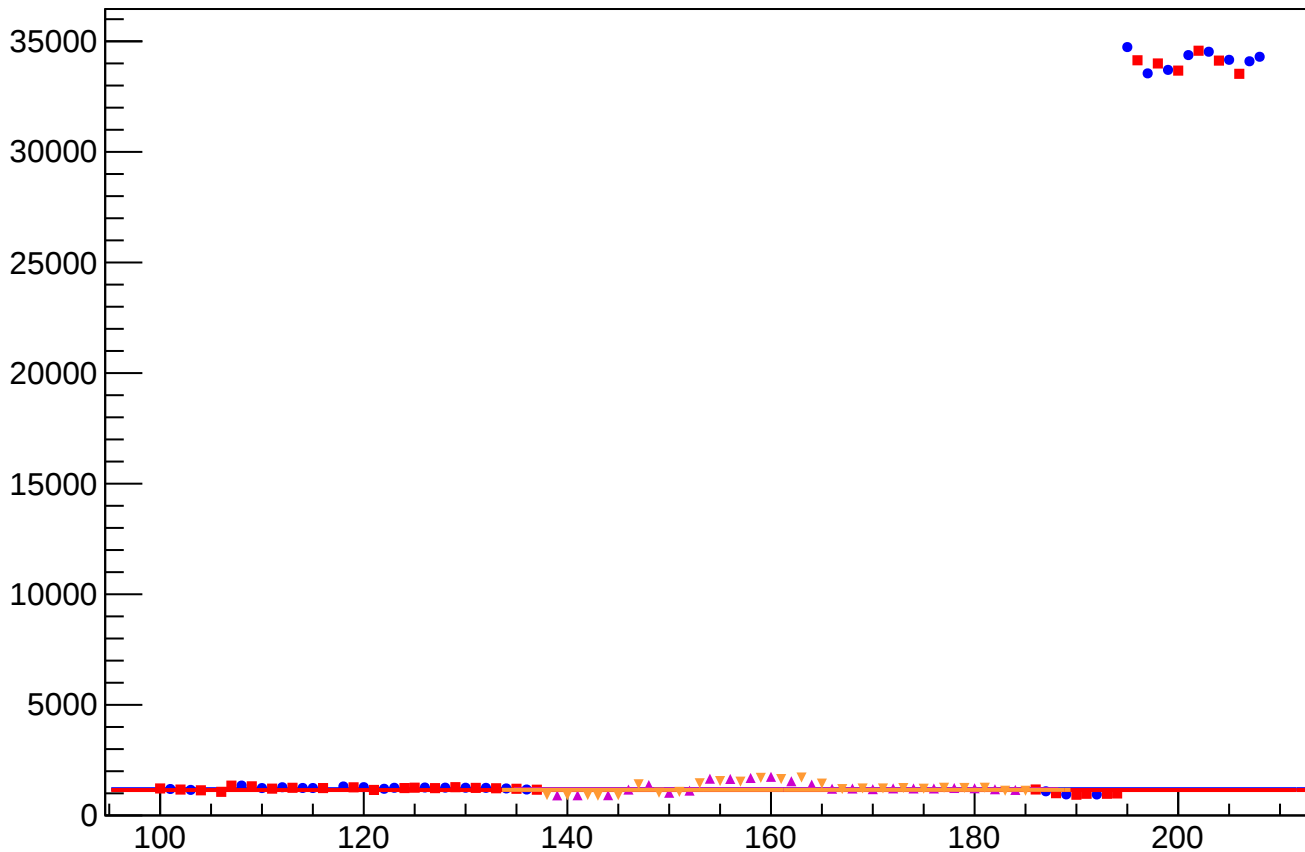
Right: 2.054 ± 0.267 $\chi^2/\text{NDF}: 940.5/58$

In: -1.299 ± 0.236 $\chi^2/\text{NDF}: 379.6/50$

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

All: 1.449 ± 0.160 $\chi^2/\text{NDF}: 1480.9/106$

diff_bpm0l06Y_rms vs Slug, Sign Corrected



Right In: 1187.720+/-0.287 χ^2/NDF : 11716655.3/27

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

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

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

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

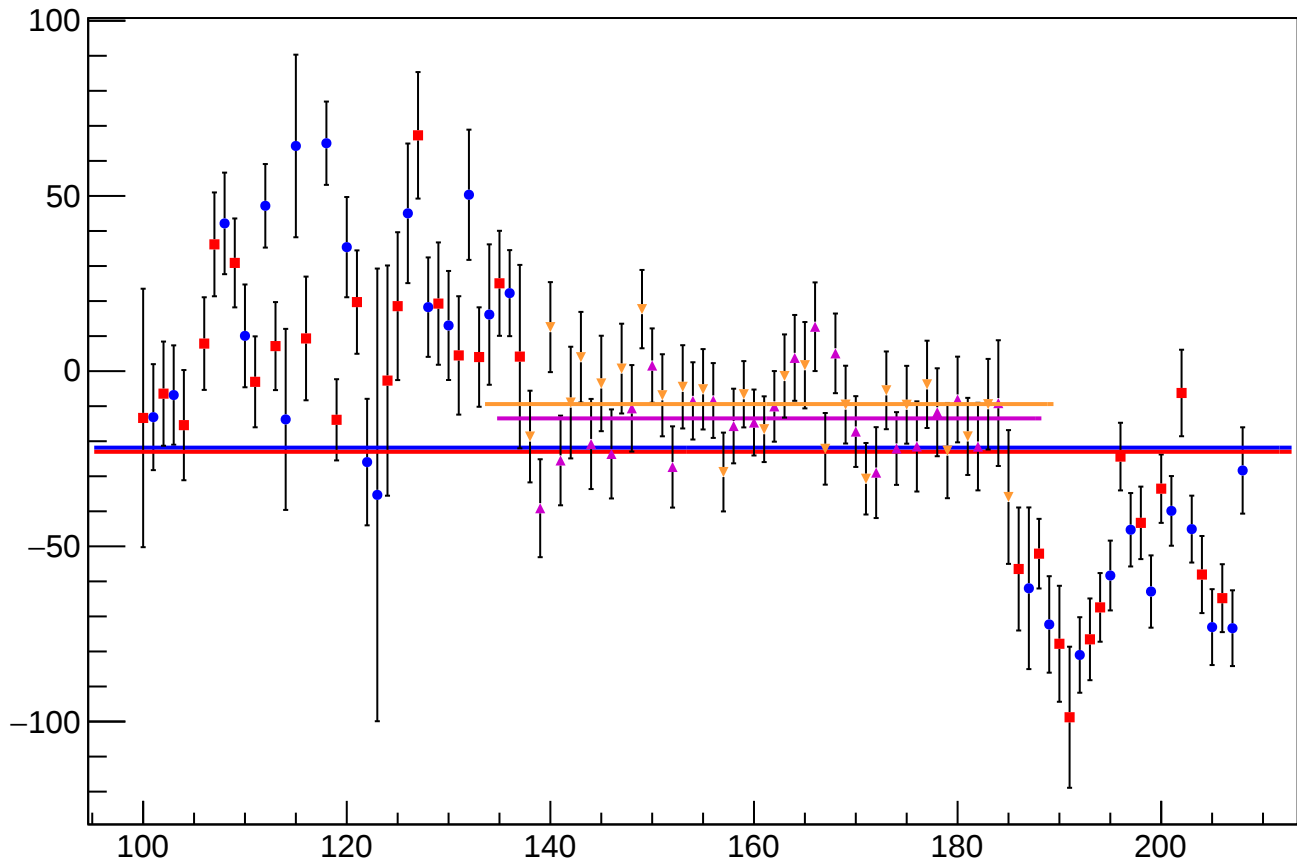
Right: 1165.652+/-0.189 χ^2/NDF : 20467415.7/58

In: 1185.901+/-0.167 χ^2/NDF : 12907147.7/50

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

All: 1169.249+/-0.113 χ^2/NDF : 23077290.4/100

diff_bpm0l07X_mean vs Slug, Sign Corrected



Right In: -21.831 $\pm$ 2.525 χ^2/NDF : 331.0/27

Left Out: -9.398 $\pm$ 2.358 χ^2/NDF : 26.3/24

Right Out: -23.017 $\pm$ 2.422 χ^2/NDF : 228.8/30

Left In: -13.485 $\pm$ 2.443 χ^2/NDF : 21.6/22

Left: -11.369 $\pm$ 1.697 χ^2/NDF : 49.3/47

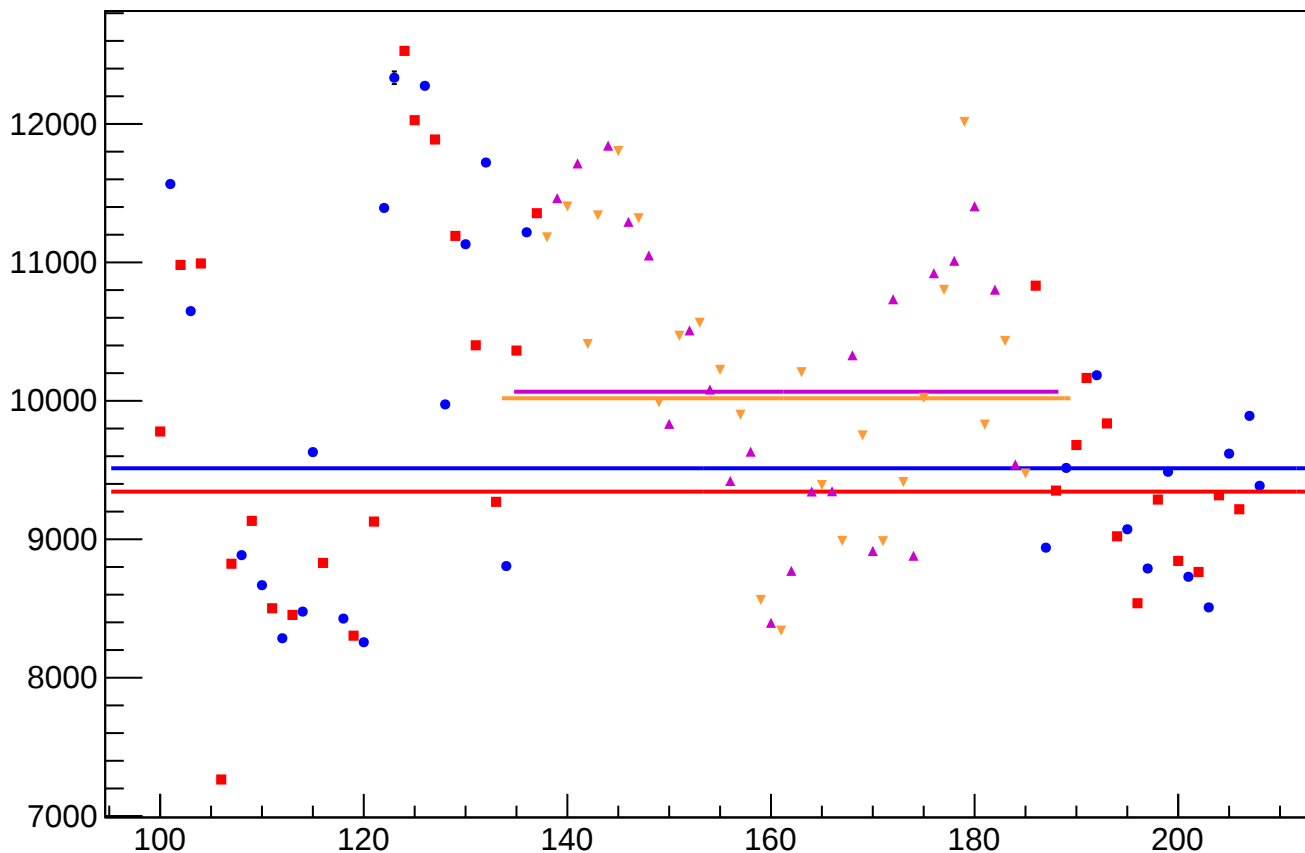
Right: -22.449 $\pm$ 1.748 χ^2/NDF : 560.0/58

In: -17.519 $\pm$ 1.756 χ^2/NDF : 358.2/50

Out: -16.028 $\pm$ 1.690 χ^2/NDF : 271.4/55

All: -16.745 $\pm$ 1.217 χ^2/NDF : 630.0/106

diff_bpm0l07X_rms vs Slug, Sign Corrected



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

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

Right Out: 9344.290 ± 1.712 $\chi^2/\text{NDF}: 326263.8/30$

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

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

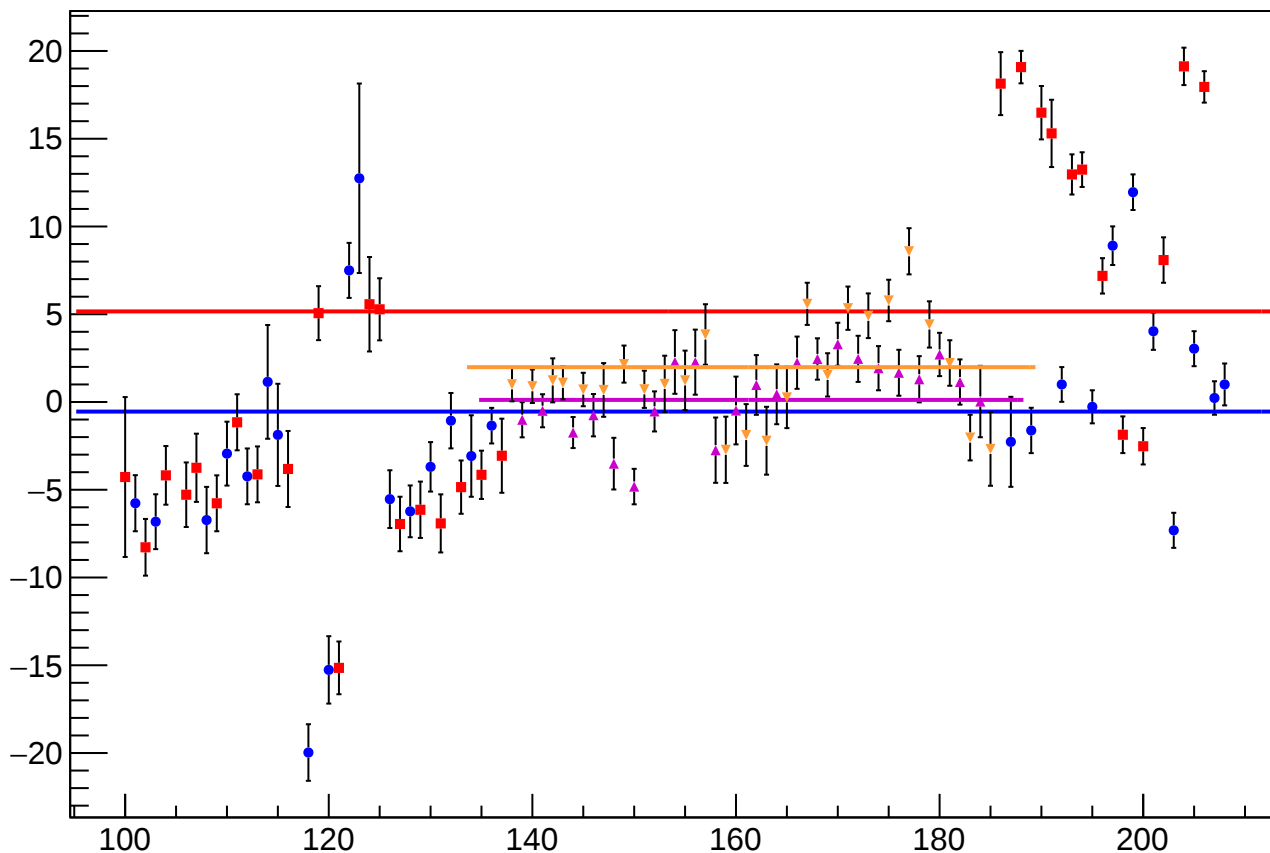
Right: 9425.051 ± 1.236 $\chi^2/\text{NDF}: 664518.7/58$

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

Out: 9690.316 ± 1.195 $\chi^2/\text{NDF}: 750378.1/55$

All: 9742.376 ± 0.861 $\chi^2/\text{NDF}: 1495351.7/10$

diff_bpm0l07Y_mean vs Slug, Sign Corrected



Right In: -0.546 ± 0.255 χ^2/NDF : 621.6/27

Left Out: 1.985 ± 0.255 χ^2/NDF : 101.2/24

Right Out: 5.161 ± 0.250 χ^2/NDF : 1683.6/30

Left In: 0.120 ± 0.269 χ^2/NDF : 67.6/22

Left: 1.102 ± 0.185 χ^2/NDF : 194.2/47

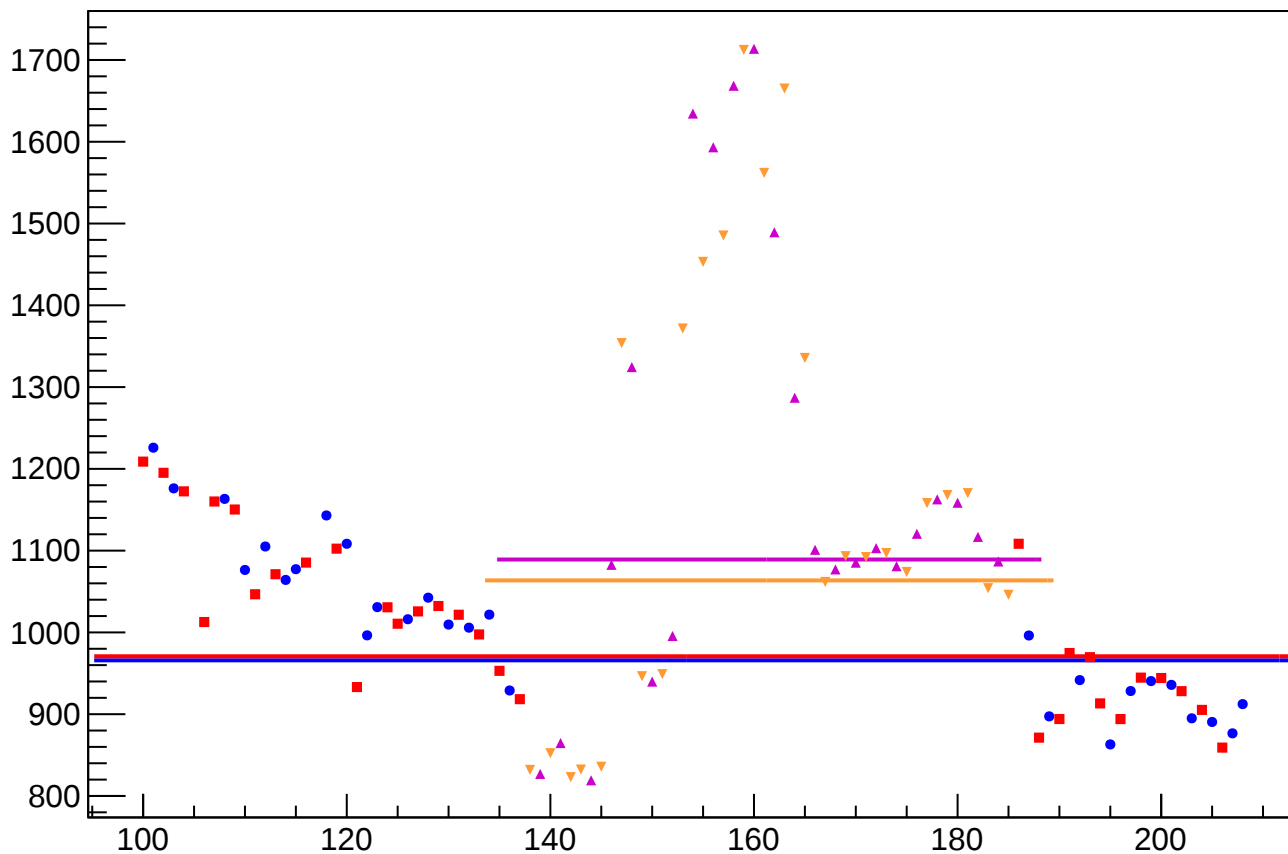
Right: 2.359 ± 0.179 χ^2/NDF : 2560.3/58

In: -0.231 ± 0.185 χ^2/NDF : 692.5/50

Out: 3.601 ± 0.179 χ^2/NDF : 1863.9/55

All: 1.752 ± 0.128 χ^2/NDF : 2778.4/106

diff_bpm0l07Y_rms vs Slug, Sign Corrected



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

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

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

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

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

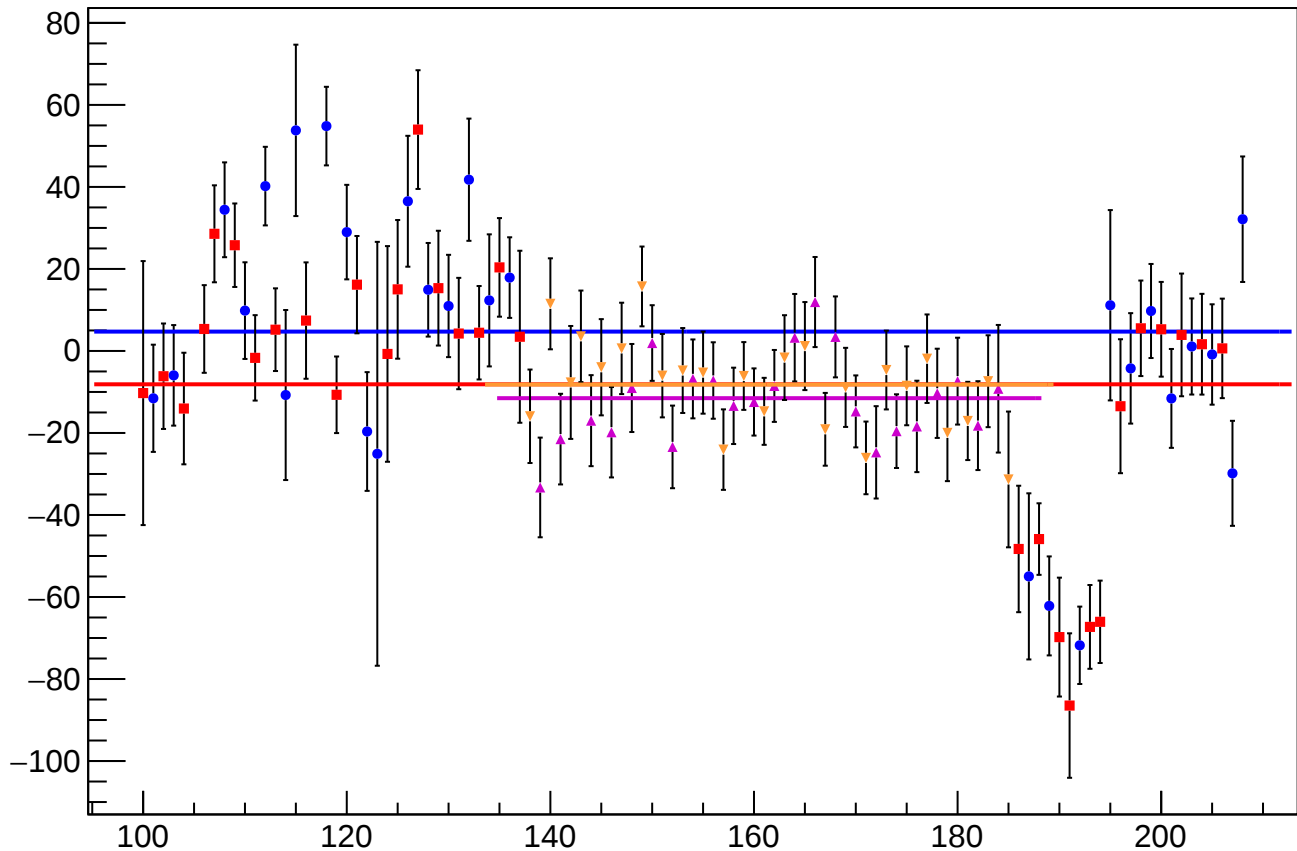
Right: 968.387 $\pm$ 0.126 χ^2 /NDF: 534482.6/58

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

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

All: 1020.208 $\pm$ 0.091 χ^2 /NDF: 3940268.9/100

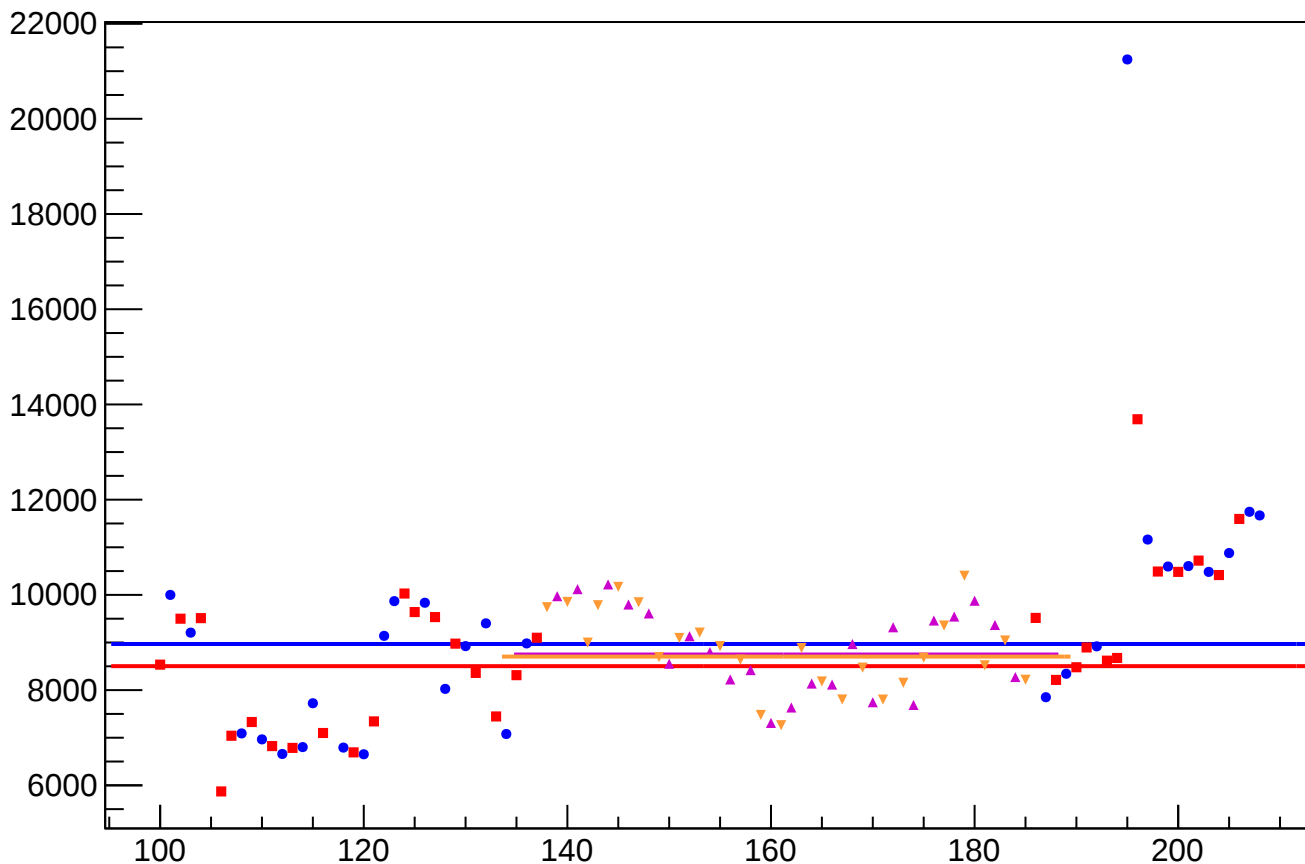
diff_bpm0l08X_mean vs Slug, Sign Corrected



Right In: 4.720 $\pm$ 2.427 χ^2/NDF : 195.5/27
 Left Out: -8.195 $\pm$ 2.049 χ^2/NDF :26.2/24
 Right Out: -8.132 $\pm$ 2.242 χ^2/NDF : 196.0/30
 Left In: -11.515 $\pm$ 2.122 χ^2/NDF :21.0/22

Left: -9.796 $\pm$ 1.474 χ^2/NDF : 48.5/47
 Right: -2.217 $\pm$ 1.647 χ^2/NDF : 406.7/58
 In: -4.481 $\pm$ 1.598 χ^2/NDF :241.9/50
 Out: -8.166 $\pm$ 1.512 χ^2/NDF :222.2/55
 All: -6.425 $\pm$ 1.098 χ^2/NDF : 466.9/106

diff_bpm0l08X_rms vs Slug, Sign Corrected



Right In: 8968.482 ± 1.716 $\chi^2/\text{NDF}: 1442452.8/27$

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

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

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

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

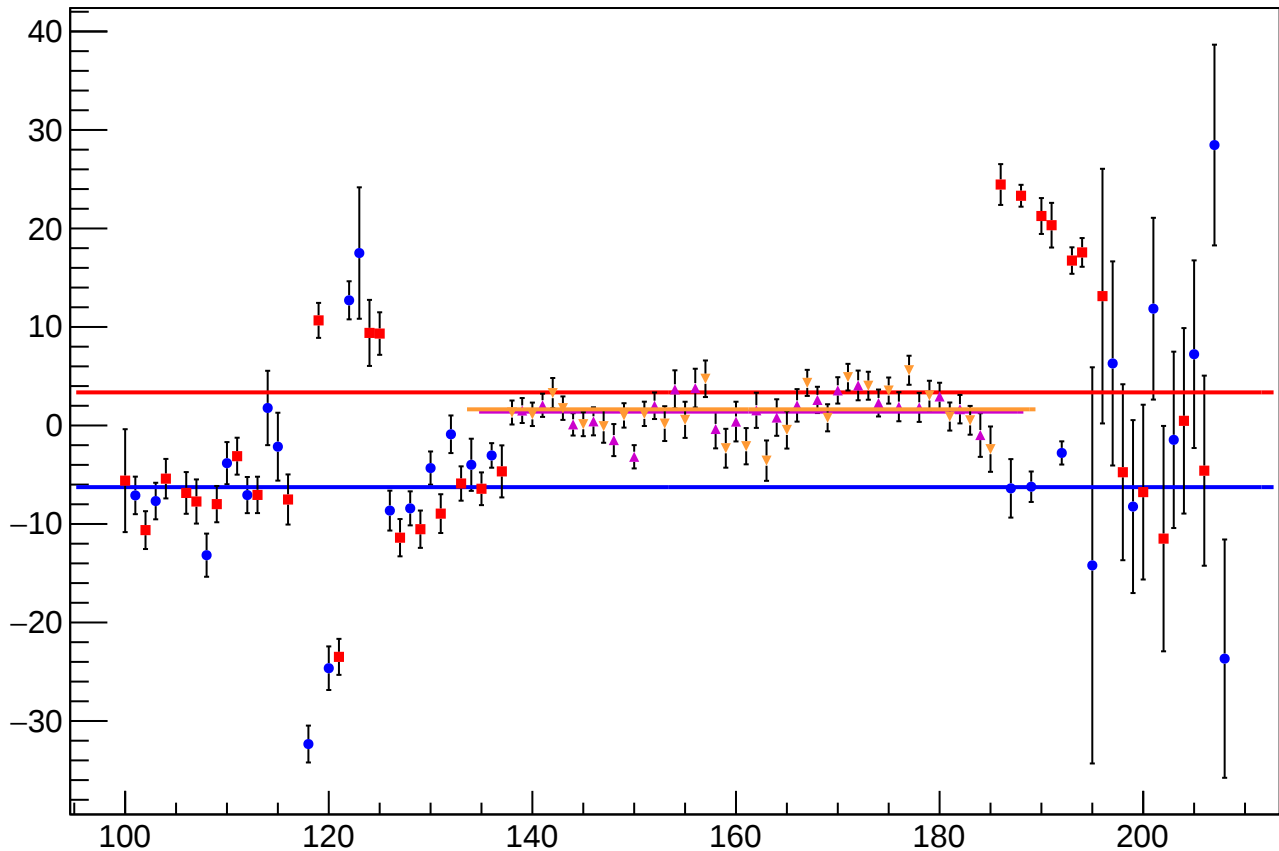
Right: 8717.288 ± 1.164 $\chi^2/\text{NDF}: 2508753.1/58$

In: 8843.192 ± 1.130 $\chi^2/\text{NDF}: 1798964.3/50$

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

All: 8721.592 ± 0.777 $\chi^2/\text{NDF}: 3188681.8/10$

diff_bpm0l08Y_mean vs Slug, Sign Corrected



Right In: -6.260 ± 0.425 $\chi^2/\text{NDF}: 439.9/27$

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

Right Out: 3.359 ± 0.373 $\chi^2/\text{NDF}: 1471.0/30$

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

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

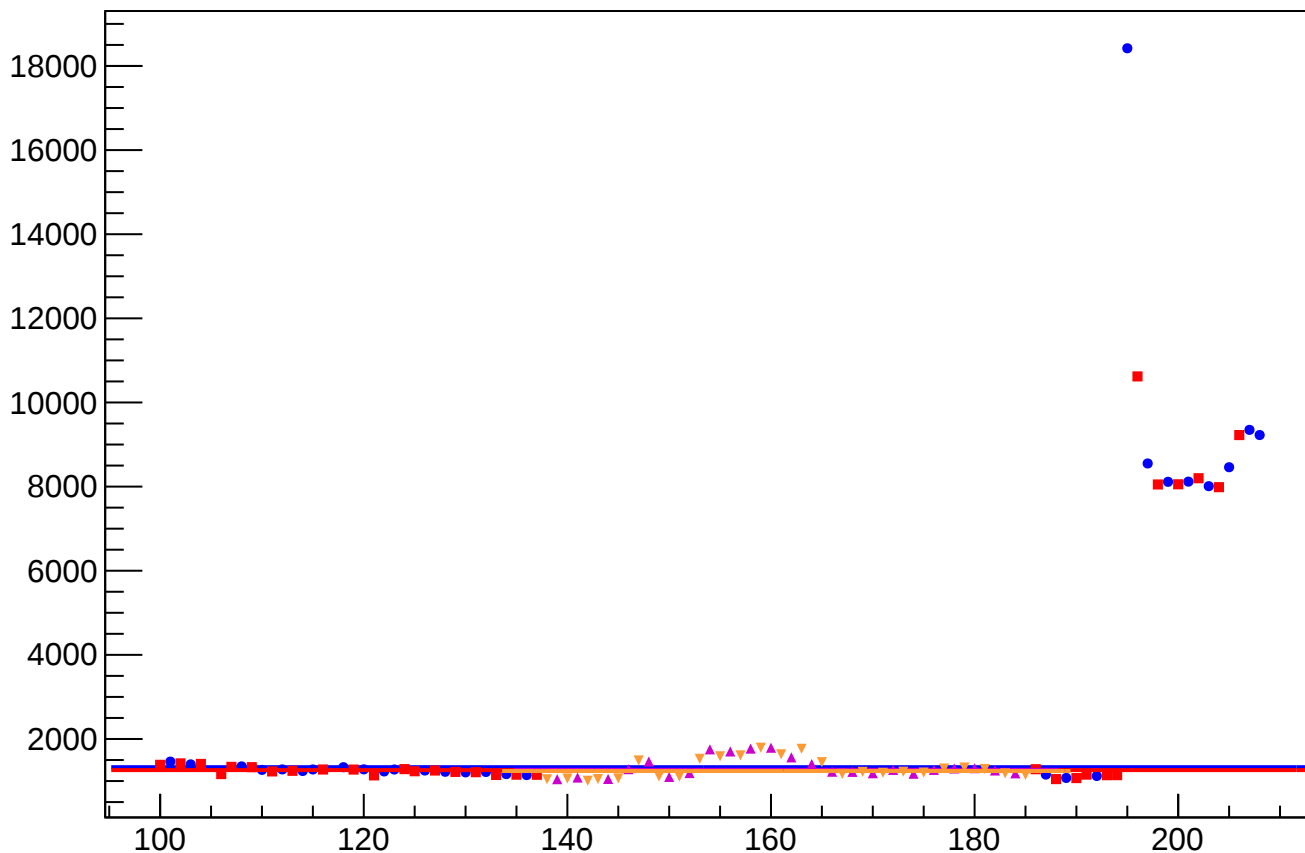
Right: -0.825 ± 0.280 $\chi^2/\text{NDF}: 2200.8/58$

In: -1.248 ± 0.250 $\chi^2/\text{NDF}: 687.0/50$

Out: 2.298 ± 0.231 $\chi^2/\text{NDF}: 1535.5/55$

All: 0.667 ± 0.169 $\chi^2/\text{NDF}: 2331.3/106$

diff_bpm0l08Y_rms vs Slug, Sign Corrected



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

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

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

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

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

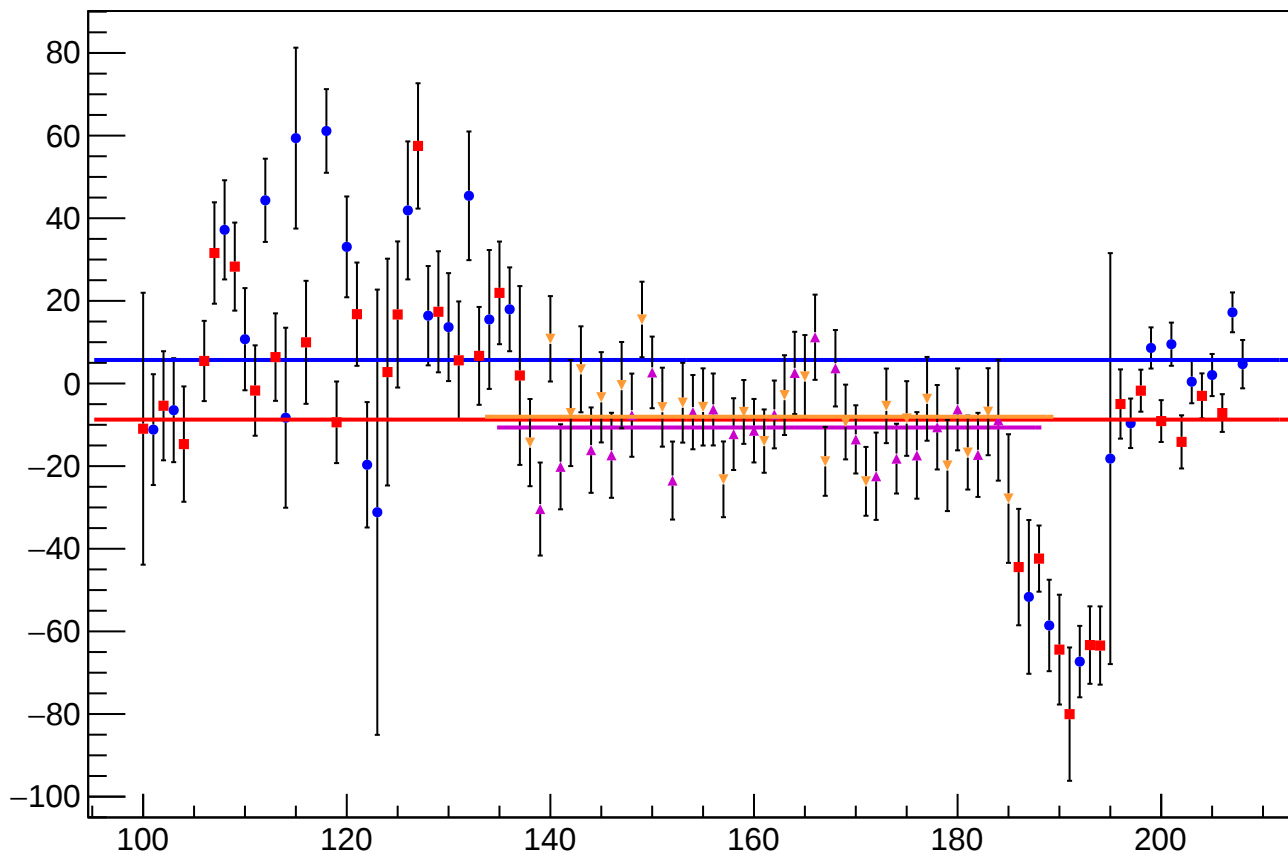
Right: 1290.367+/-0.198 χ^2/NDF : 15975833.3/58

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

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

All: 1265.639+/-0.120 χ^2/NDF : 17818918.6/100

diff_bpm0l09X_mean vs Slug, Sign Corrected



Right In: 5.695 ± 1.641 χ^2/NDF : 212.6/27

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

Right Out: -8.738 ± 1.665 χ^2/NDF : 199.4/30

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

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

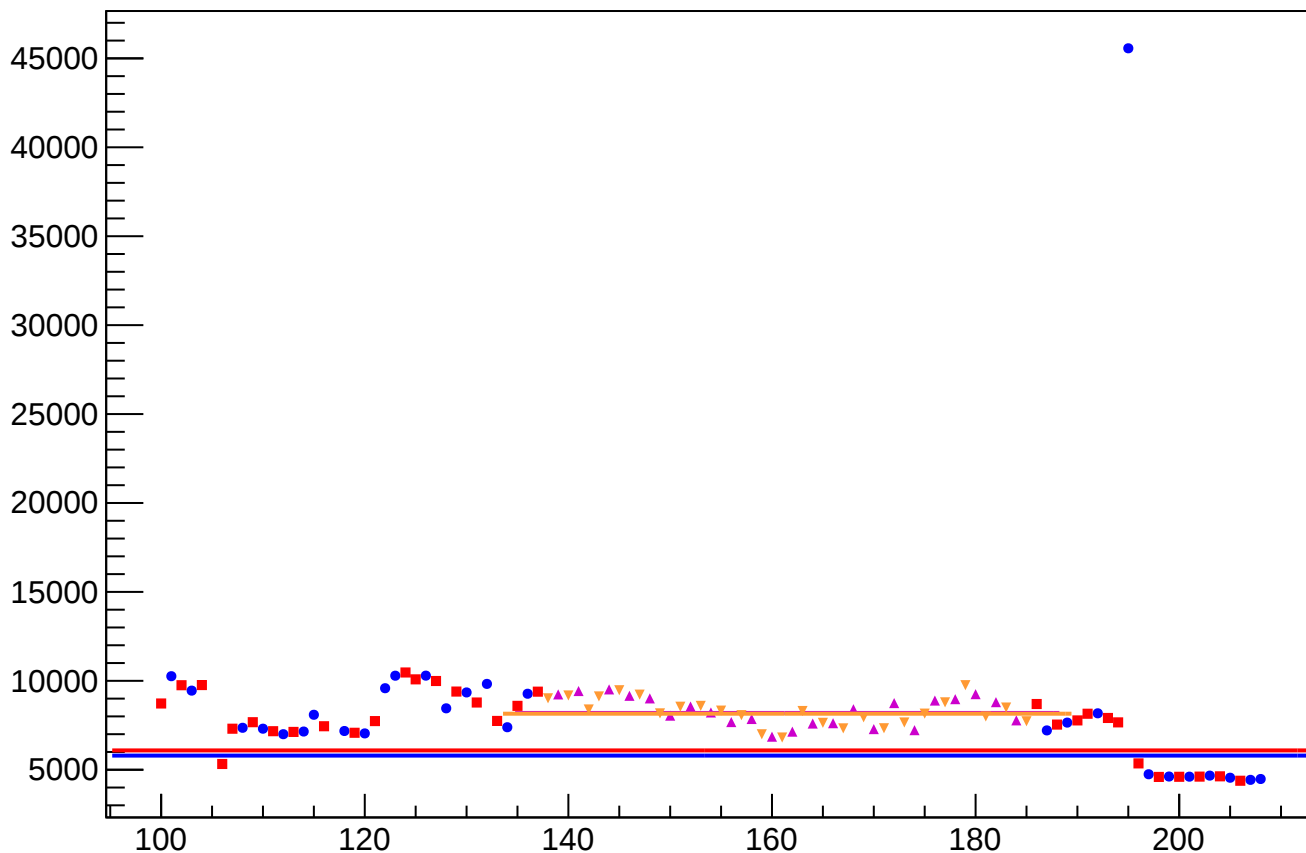
Right: -1.417 ± 1.168 χ^2/NDF : 450.1/58

In: -0.930 ± 1.265 χ^2/NDF : 274.3/50

Out: -8.439 ± 1.257 χ^2/NDF : 225.8/55

All: -4.709 ± 0.892 χ^2/NDF : 517.8/106

diff_bpm0l09X_rms vs Slug, Sign Corrected



Right In: 5796.088+/-1.160

χ^2/NDF : 3734290.9/27

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

Left Out: 8151.489+/-1.356

χ^2/NDF : 321803.3/24

Right: 5939.558+/-0.826 χ^2/NDF : 6100004.0/58

Right Out: 6087.231+/-1.177

χ^2/NDF : 2334679.2/30

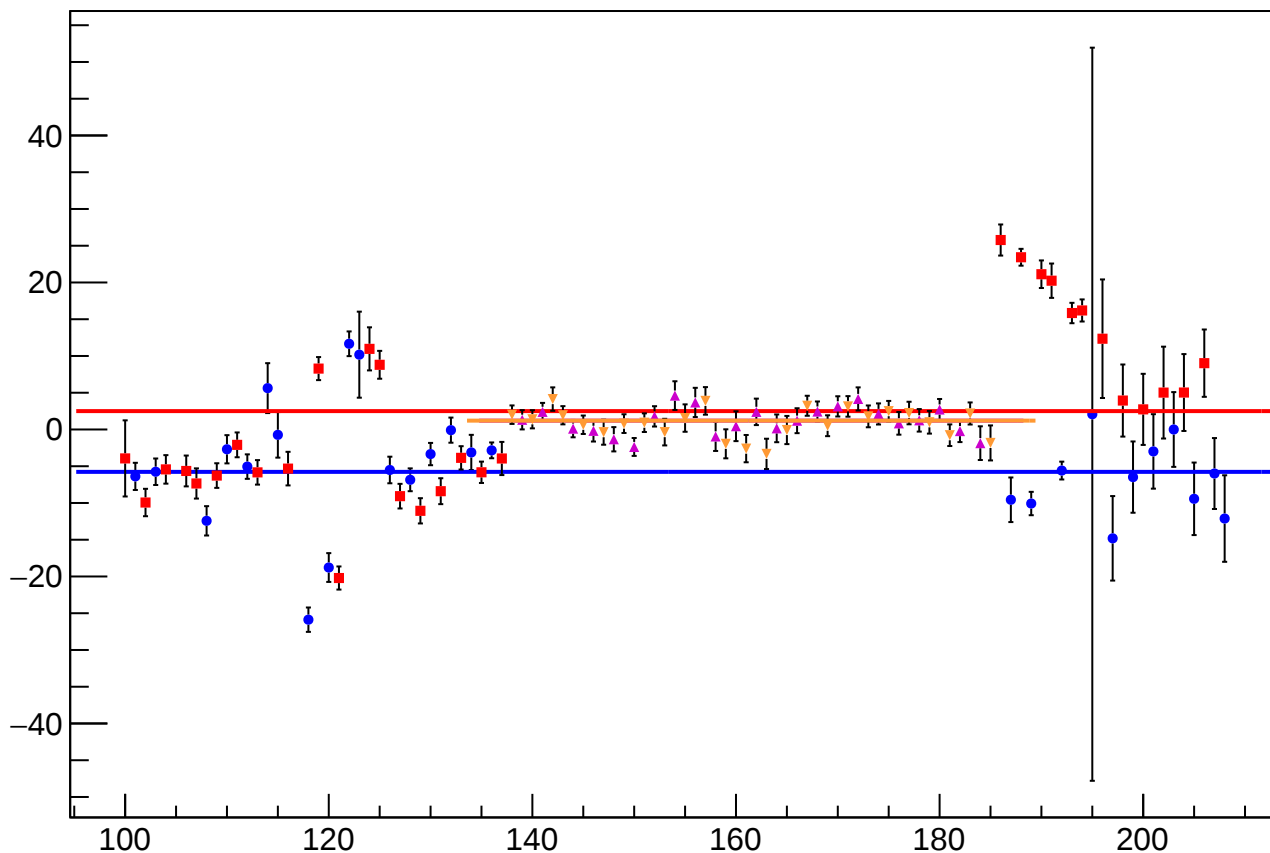
In: 6767.731+/-0.895 χ^2/NDF : 5803454.7/50

Out: 6973.981+/-0.889 χ^2/NDF : 3977752.7/55

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

All: 6871.518+/-0.631 χ^2/NDF : 9807948.8/10

diff_bpm0l09Y_mean vs Slug, Sign Corrected



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

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

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

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

Left: 1.201±/0.219 χ^2/NDF : 61.1/47

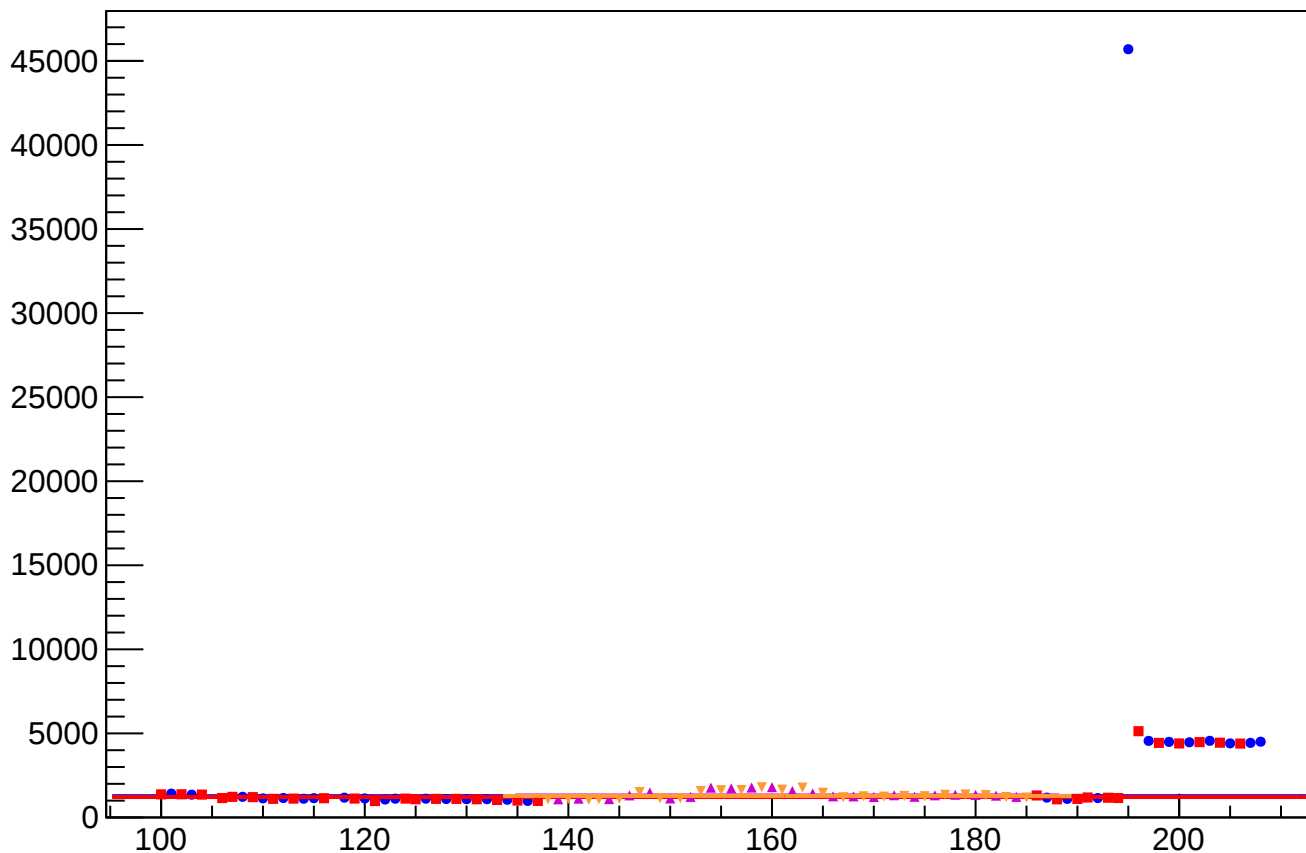
Right: -1.200±/0.259 χ^2/NDF : 2034.0/58

In: -1.609±/0.246 χ^2/NDF :595.9/50

Out: 1.760±/0.228 χ^2/NDF :1448.4/55

All: 0.199±/0.167 χ^2/NDF : 2145.1/106

diff_bpm0l09Y_rms vs Slug, Sign Corrected



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

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

Right Out: 1214.699 $\pm$ 0.246 χ^2 /NDF: 4745596.1/30

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

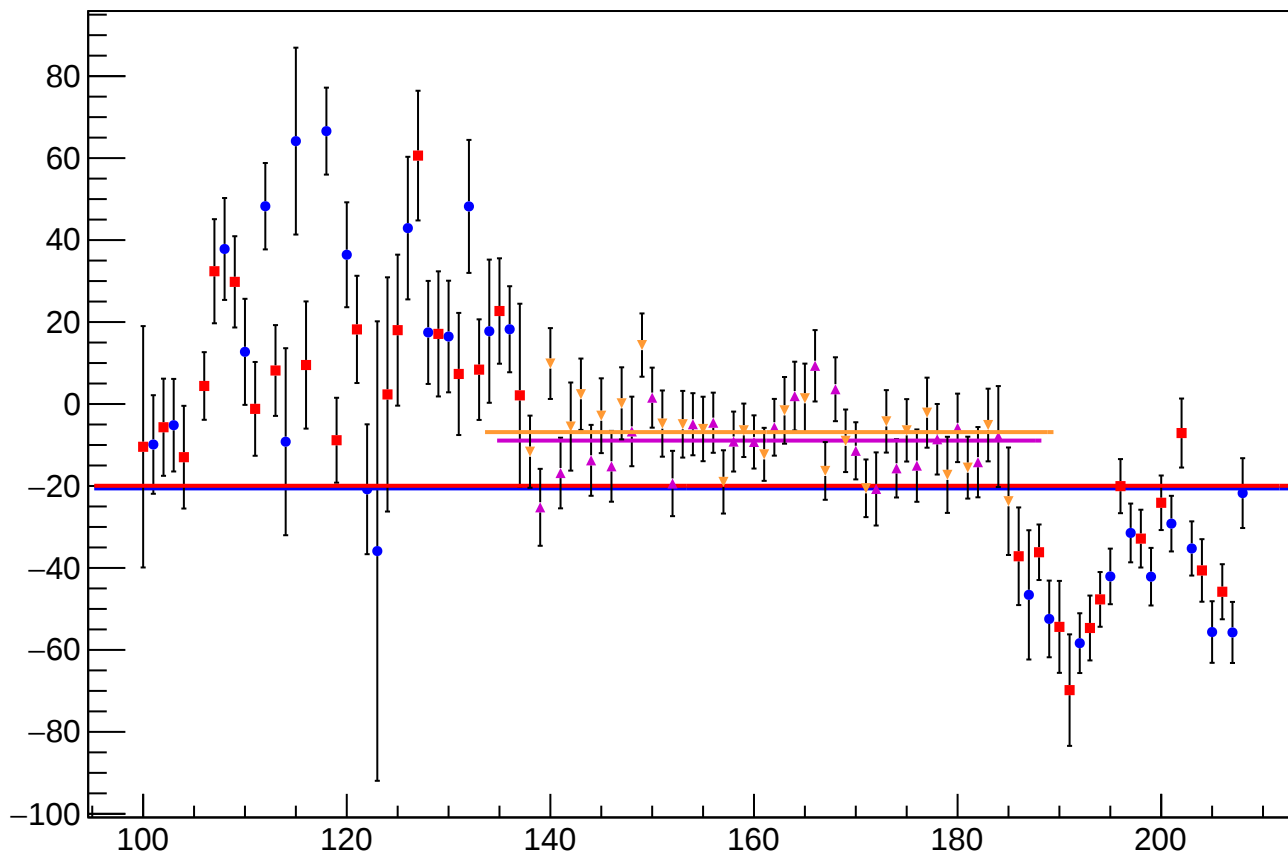
Right: 1237.676 $\pm$ 0.183 χ^2 /NDF: 12181862.6/58

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

Out: 1250.762 $\pm$ 0.162 χ^2 /NDF: 5661257.8/55

All: 1268.769 $\pm$ 0.118 χ^2 /NDF: 13877798.0/100

diff_bpm0l10X_mean vs Slug, Sign Corrected



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

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

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

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

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

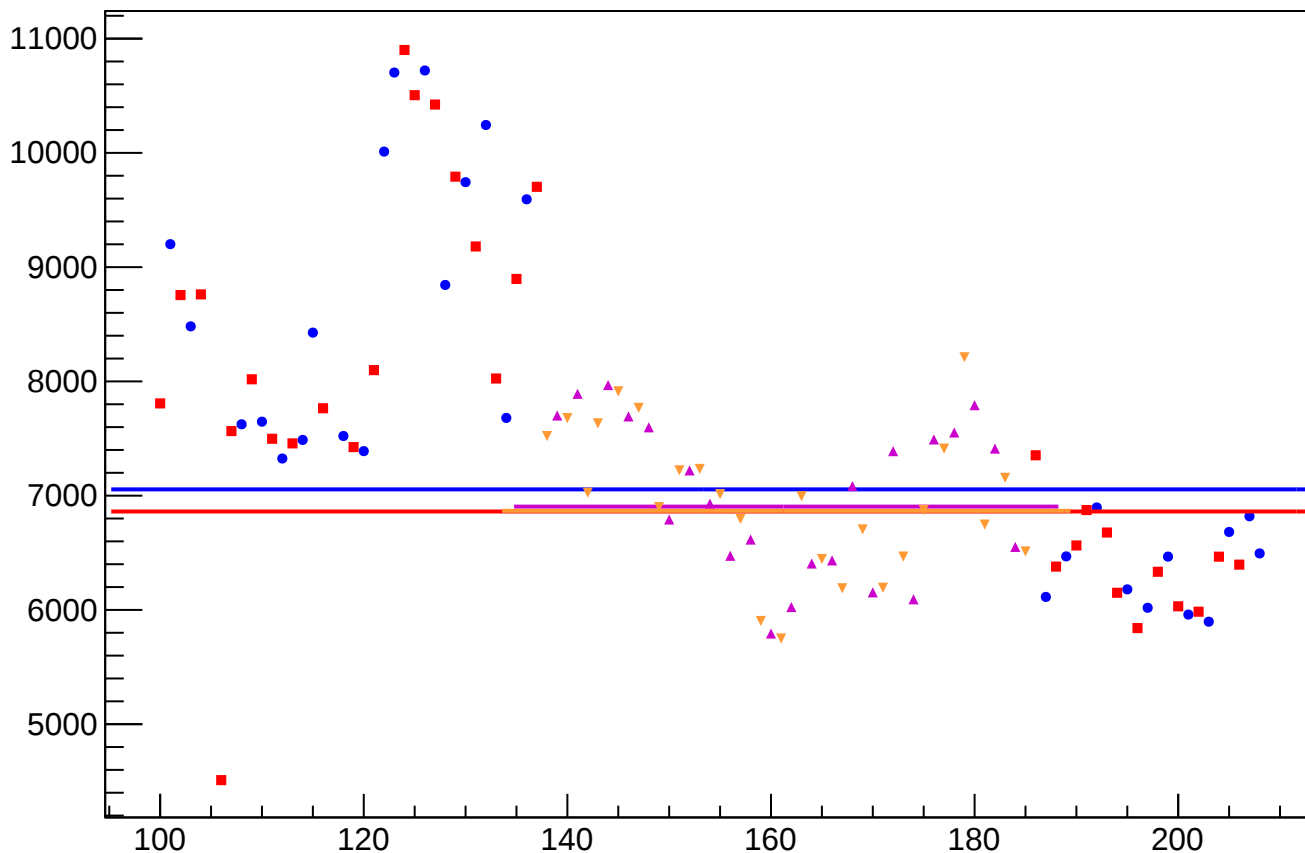
Right: -20.256 ± 1.302 χ^2/NDF : 578.0/58

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

Out: -12.711 ± 1.201 χ^2/NDF : 280.7/55

All: -13.356 ± 0.867 χ^2/NDF : 679.8/106

diff_bpm0l10X_rms vs Slug, Sign Corrected



Right In: 7055.057+/-1.336 χ^2/NDF : 834869.8/27

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

Right Out: 6861.368+/-1.270 χ^2/NDF : 939437.1/30

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

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

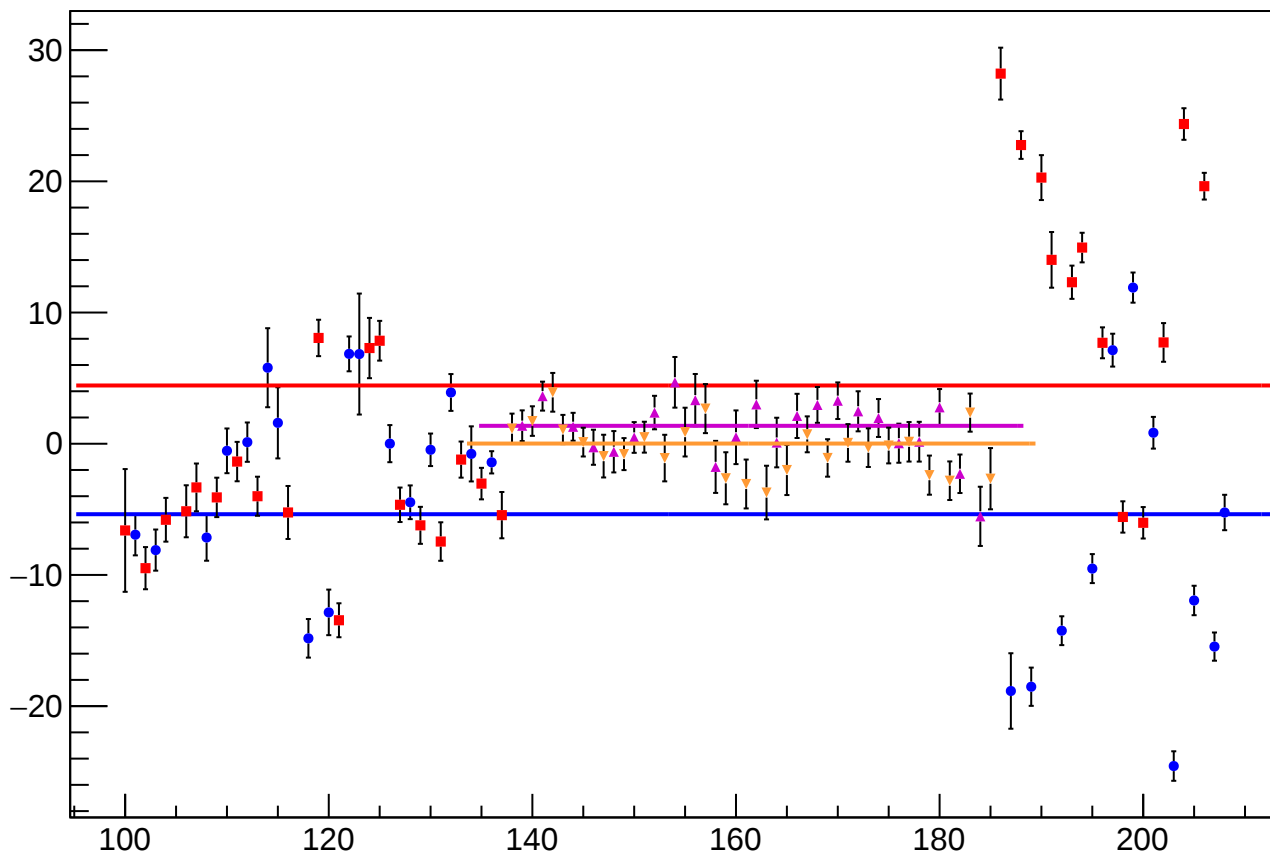
Right: 6953.338+/-0.920 χ^2/NDF : 1785351.6/58

In: 6970.533+/-0.886 χ^2/NDF : 1167934.4/50

Out: 6864.687+/-0.849 χ^2/NDF : 1246344.4/55

All: 6915.376+/-0.613 χ^2/NDF : 2421717.0/100

diff_bpm0l10Y_mean vs Slug, Sign Corrected



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

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

Right Out: 4.440 ± 0.257 $\chi^2/\text{NDF}: 2058.2/30$

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

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

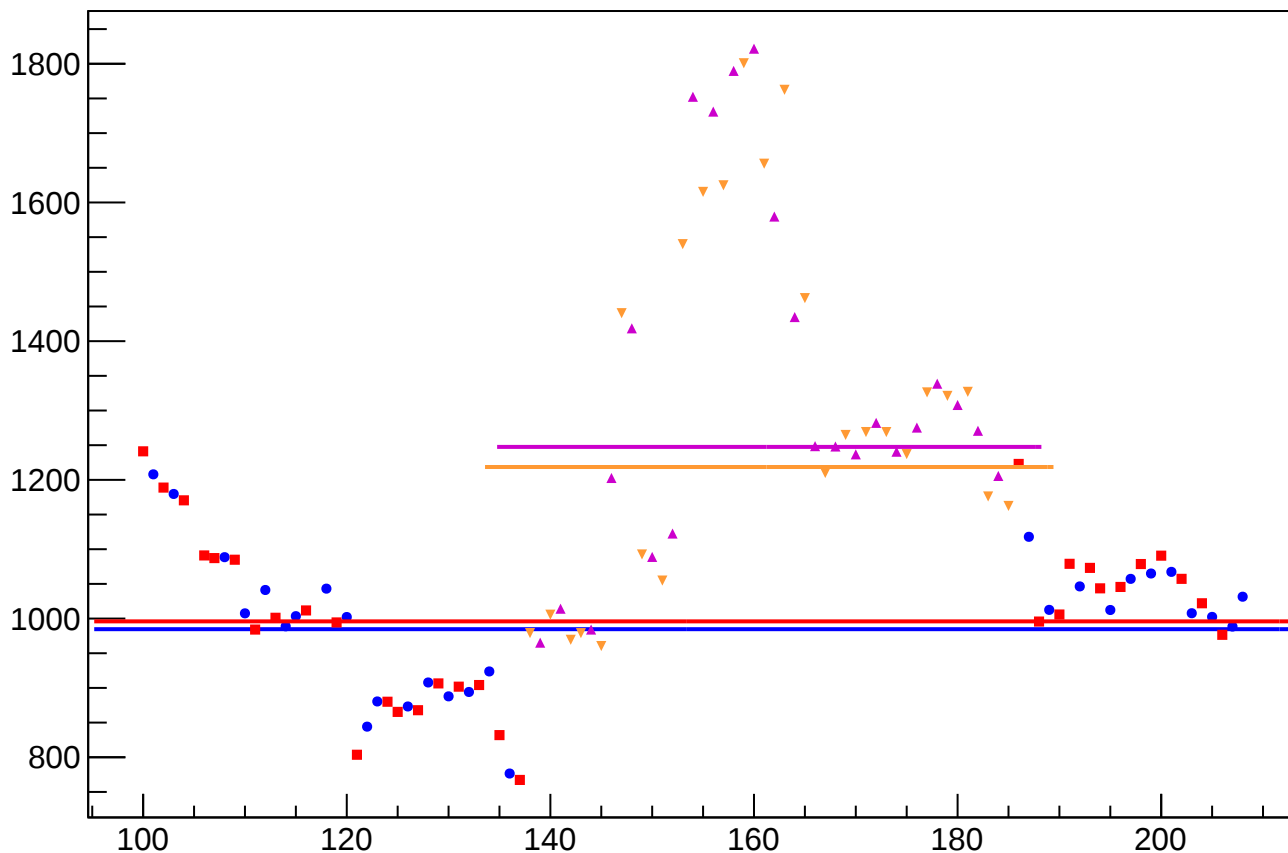
Right: -0.408 ± 0.183 $\chi^2/\text{NDF}: 4025.5/58$

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

Out: 2.491 ± 0.192 $\chi^2/\text{NDF}: 2223.7/55$

All: 0.049 ± 0.138 $\chi^2/\text{NDF}: 4123.8/106$

diff_bpm0l10Y_rms vs Slug, Sign Corrected



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

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

Right Out: 995.956 $\pm$ 0.182 χ^2 /NDF: 323549.6/30

Left In: 1247.538 $\pm$ 0.216 χ^2 /NDF:1073390.3/22

Left: 1232.283 $\pm$ 0.149 χ^2 /NDF: 2348717.2/47

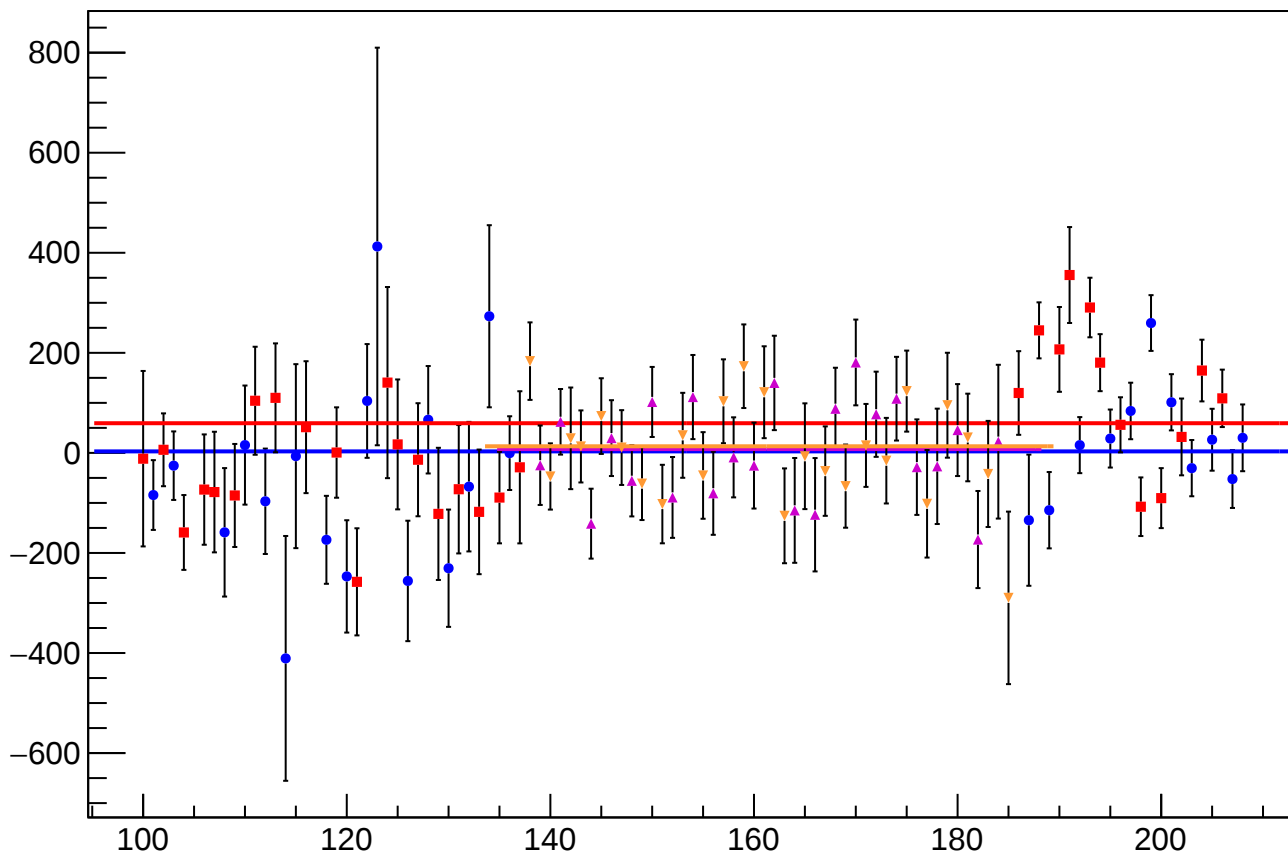
Right: 990.390 $\pm$ 0.129 χ^2 /NDF: 638127.5/58

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

Out: 1093.958 $\pm$ 0.136 χ^2 /NDF:2249214.6/55

All: 1094.555 $\pm$ 0.098 χ^2 /NDF: 4493454.2/10

diff_bpm0r03X_mean vs Slug, Sign Corrected



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

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

Right Out: 59.321 $\pm$ 14.859 χ^2/NDF : 94.0/30

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

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

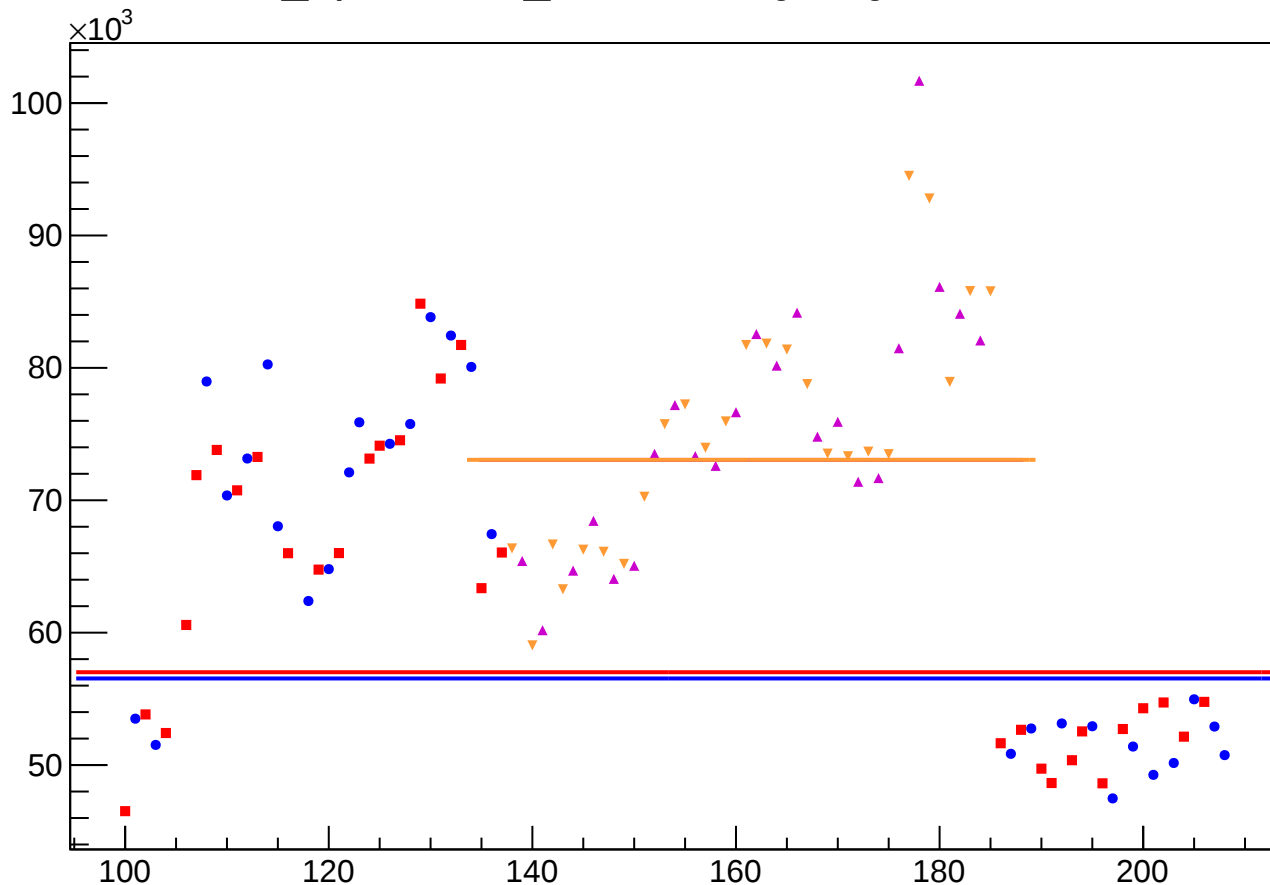
Right: 31.633 $\pm$ 10.594 χ^2/NDF : 162.1/58

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

Out: 39.542 $\pm$ 11.229 χ^2/NDF : 124.9/55

All: 22.636 $\pm$ 8.028 χ^2/NDF : 218.7/106

diff_bpm0r03X_rms vs Slug, Sign Corrected



Right In: 56539.772 $\pm$ 10.682 χ^2/NDF : 789840.5/27

Left Out: 73054.401 $\pm$ 12.124 χ^2/NDF : 473050.9/24

Right Out: 57012.488 $\pm$ 10.507 χ^2/NDF : 726742.7/30

Left In: 73045.500 $\pm$ 12.496 χ^2/NDF : 463525.5/22

Left: 73050.085 $\pm$ 8.701 χ^2/NDF : 936576.6/47

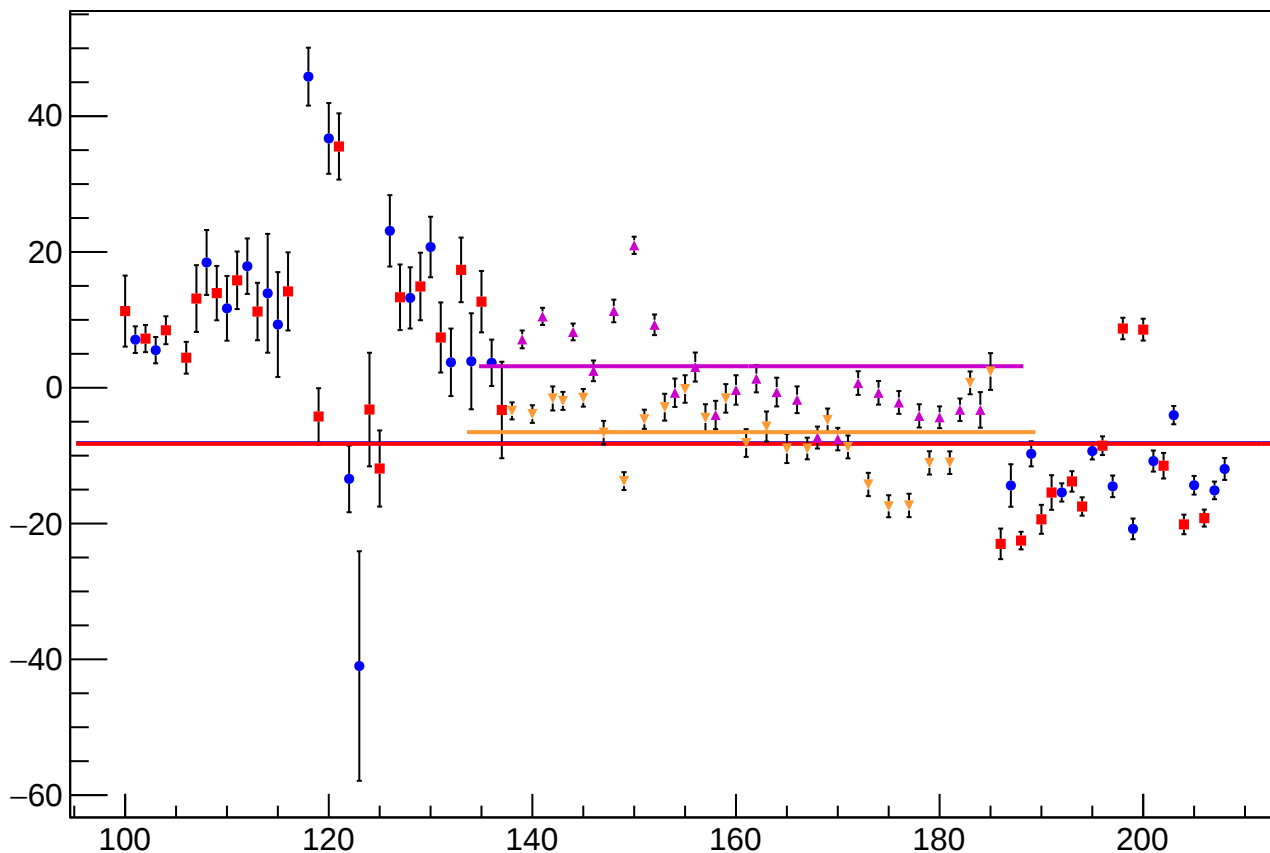
Right: 56780.043 $\pm$ 7.491 χ^2/NDF : 1517578.6/58

In: 63509.149 $\pm$ 8.120 χ^2/NDF : 2261446.8/50

Out: 63892.901 $\pm$ 7.940 χ^2/NDF : 2199608.1/55

All: 63705.314 $\pm$ 5.677 χ^2/NDF : 4462196.7/100

diff_bpm0r03Y_mean vs Slug, Sign Corrected



Right In: -8.170 ± 0.407 $\chi^2/\text{NDF}: 756.8/27$

Left Out: -6.537 ± 0.332 $\chi^2/\text{NDF}: 252.7/24$

Right Out: -8.255 ± 0.402 $\chi^2/\text{NDF}: 1101.9/30$

Left In: 3.171 ± 0.346 $\chi^2/\text{NDF}: 487.3/22$

Left: -1.892 ± 0.240 $\chi^2/\text{NDF}: 1149.5/47$

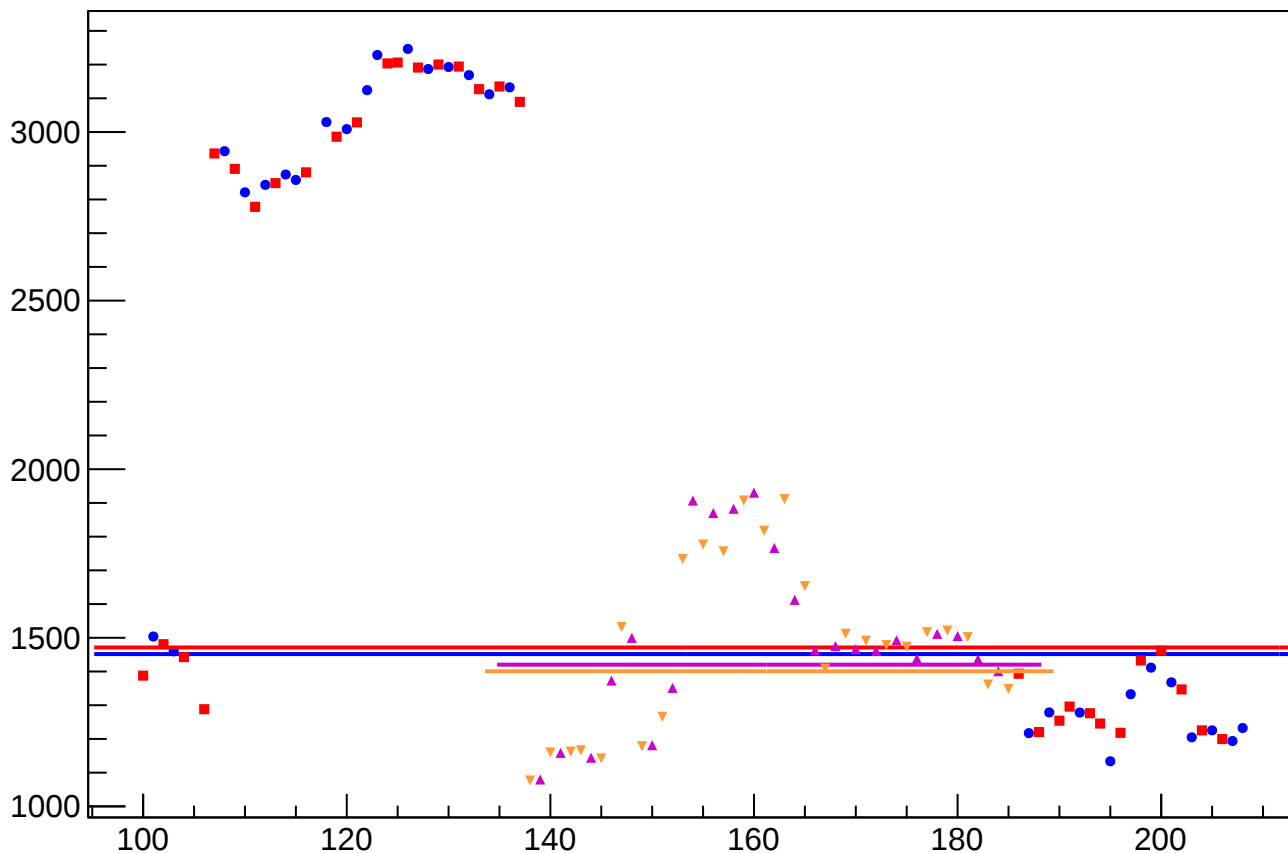
Right: -8.213 ± 0.286 $\chi^2/\text{NDF}: 1858.8/58$

In: -1.589 ± 0.264 $\chi^2/\text{NDF}: 1693.8/50$

Out: -7.234 ± 0.256 $\chi^2/\text{NDF}: 1365.5/55$

All: -4.499 ± 0.184 $\chi^2/\text{NDF}: 3295.2/106$

diff_bpm0r03Y_rms vs Slug, Sign Corrected



Right In: 1451.657+/-0.288

χ^2/NDF : 3534153.5/27

Left Out: 1400.637+/-0.235

χ^2/NDF : 1037921.6/24

Right Out: 1471.225+/-0.284

χ^2/NDF : 3470955.1/30

Left In: 1420.285+/-0.245

χ^2/NDF : 905186.2/22

Left: 1410.037+/-0.169

χ^2/NDF : 1946462.8/47

Right: 1461.579+/-0.202

χ^2/NDF : 7007447.7/58

In: 1433.450+/-0.187

χ^2/NDF : 4446221.5/50

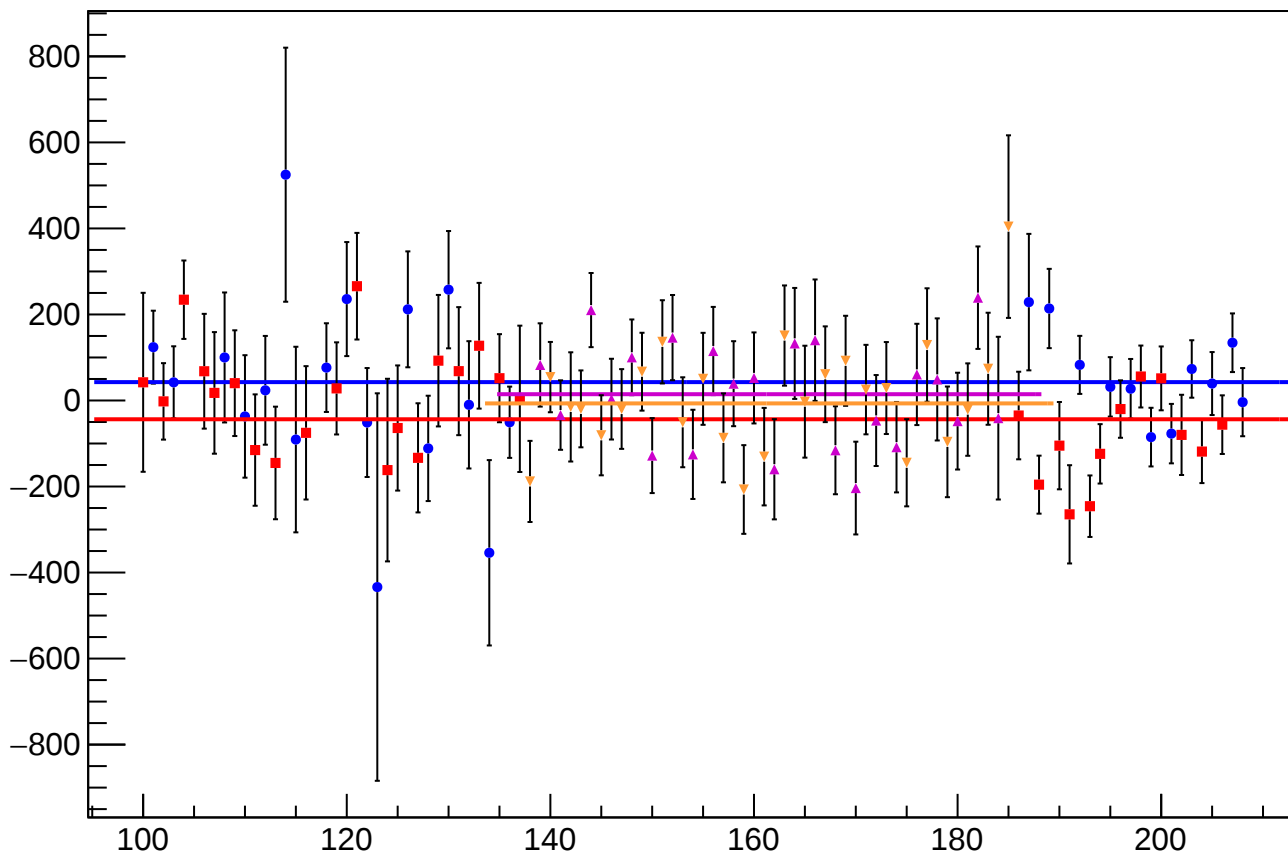
Out: 1429.265+/-0.181

χ^2/NDF : 4545585.1/55

All: 1431.292+/-0.130

χ^2/NDF : 8992065.9/100

diff_bpm0r05X_mean vs Slug, Sign Corrected



Right In: 42.707 $\pm$ 18.013 χ^2 /NDF: 32.9/27

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

Right Out: -43.670 $\pm$ 17.785 χ^2 /NDF: 46.6/30

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

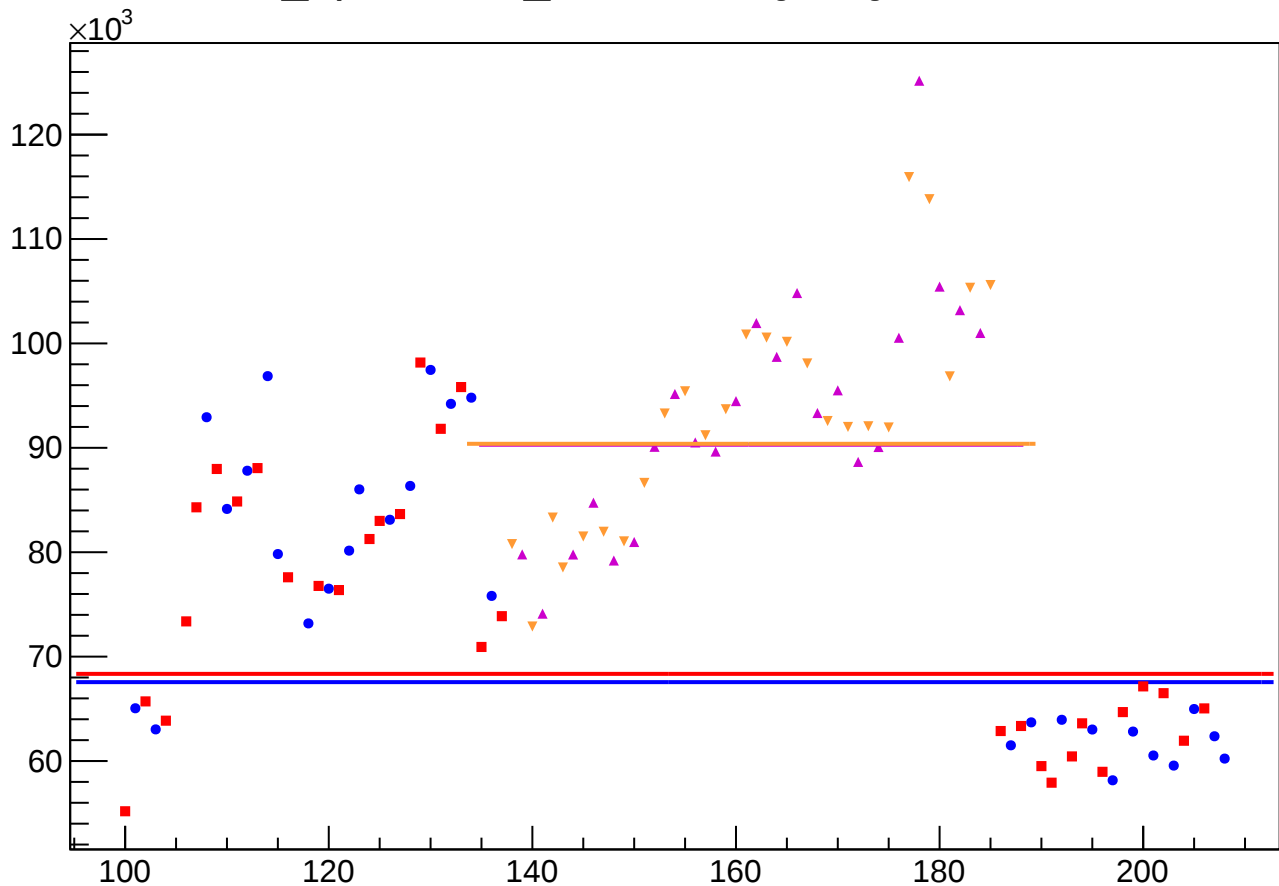
Right: -1.032 $\pm$ 12.656 χ^2 /NDF: 91.2/58

In: 31.336 $\pm$ 13.898 χ^2 /NDF:63.7/50

Out: -28.447 $\pm$ 13.629 χ^2 /NDF:73.1/55

All: 0.860 $\pm$ 9.731 χ^2 /NDF: 146.2/106

diff_bpm0r05X_rms vs Slug, Sign Corrected



Right In: 67556.635 $\pm$ 12.737

χ^2/NDF : 641246.3/27

Left Out: 90384.853 $\pm$ 15.000

χ^2/NDF : 461648.2/24

Right Out: 68348.197 $\pm$ 12.576

χ^2/NDF : 604751.8/30

Left In: 90293.591 $\pm$ 15.448

χ^2/NDF : 461337.5/22

Left: 90340.563 $\pm$ 10.761

χ^2/NDF : 923003.7/47

Right: 67957.462 $\pm$ 8.949

χ^2/NDF : 1247953.6/58

In: 76758.817 $\pm$ 9.827

χ^2/NDF : 2392212.0/50

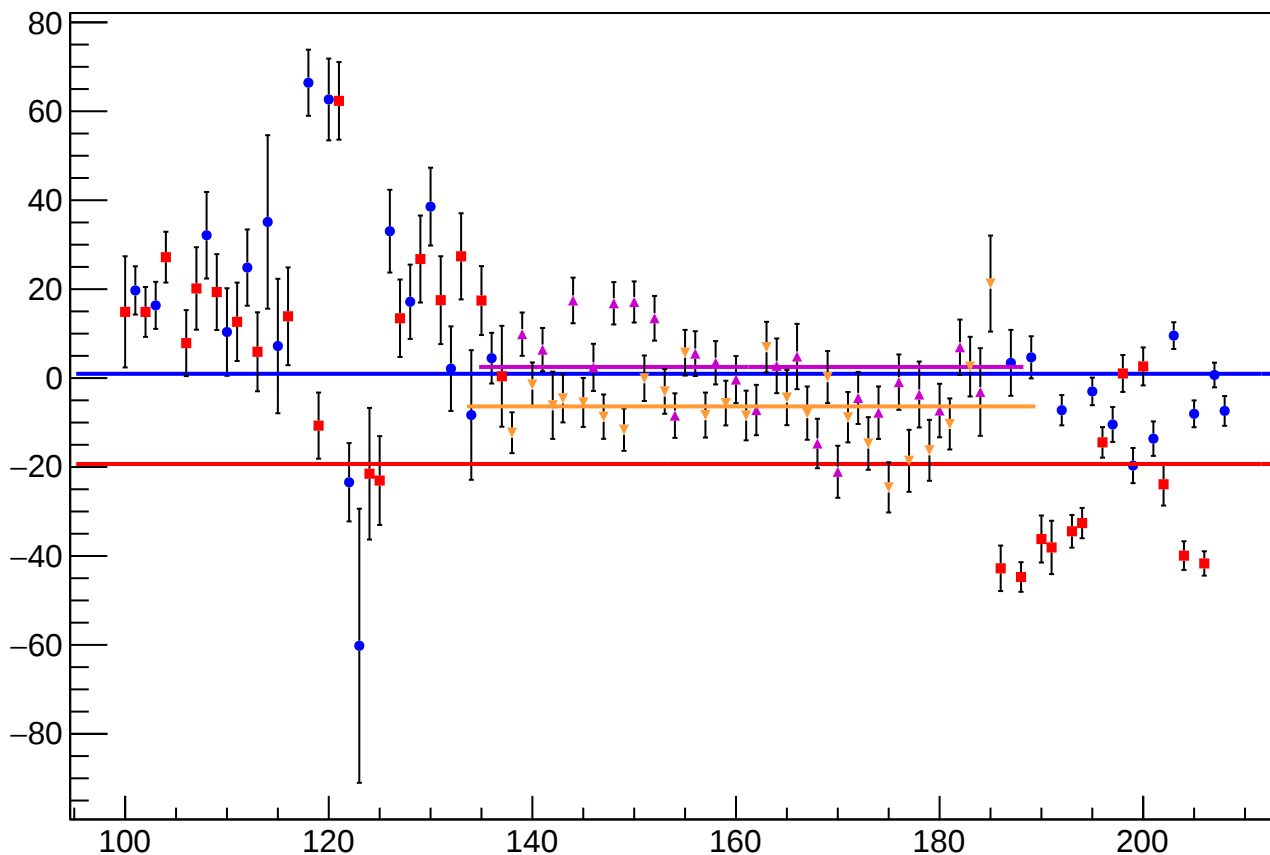
Out: 77444.339 $\pm$ 9.637

χ^2/NDF : 2333811.7/55

All: 77108.280 $\pm$ 6.881

χ^2/NDF : 4728504.2/1

diff_bpm0r05Y_mean vs Slug, Sign Corrected



Right In: 0.967 ± 0.942 χ^2/NDF : 292.8/27

Left Out: -6.370 ± 1.124 χ^2/NDF : 45.5/24

Right Out: -19.313 ± 0.960 χ^2/NDF : 673.8/30

Left In: 2.501 ± 1.156 χ^2/NDF : 78.4/22

Left: -2.059 ± 0.806 χ^2/NDF : 154.1/47

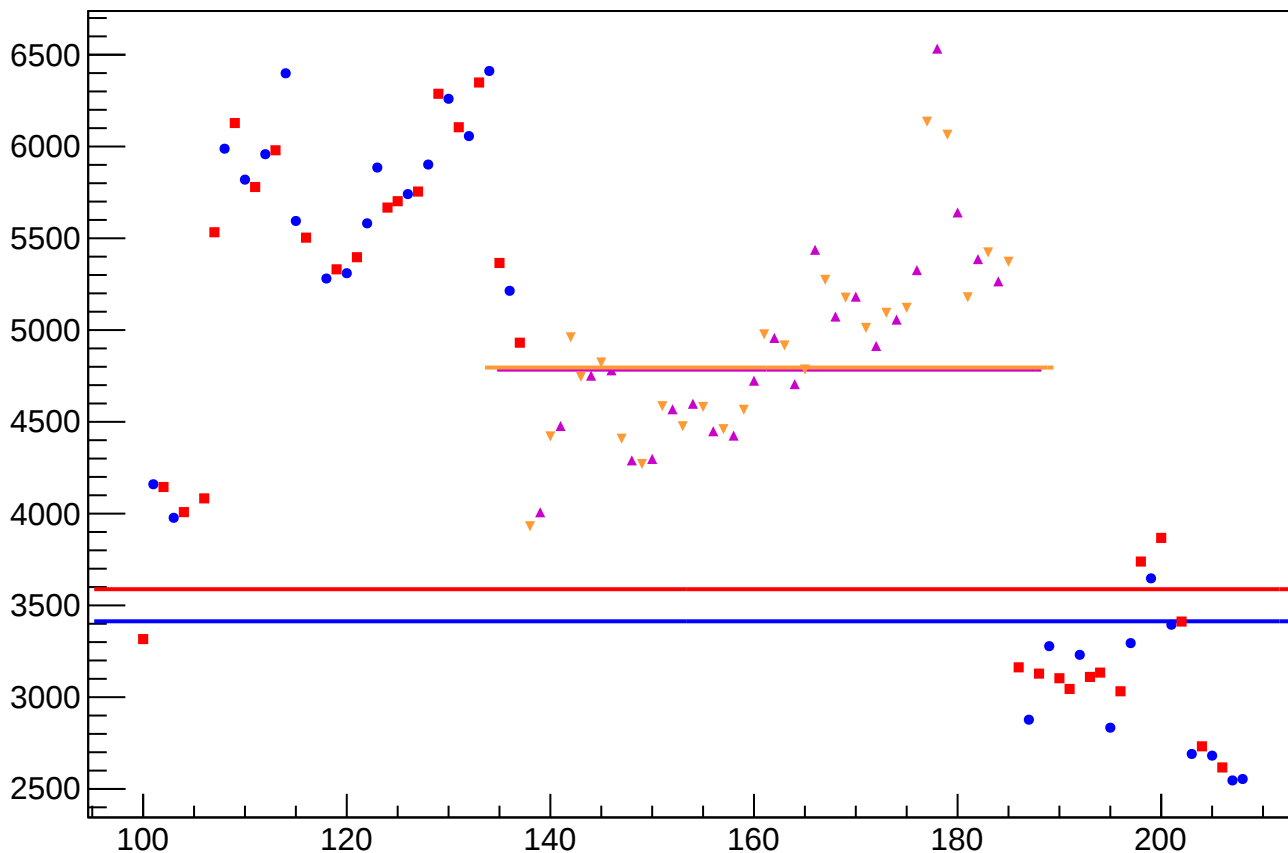
Right: -8.971 ± 0.672 χ^2/NDF : 1194.0/58

In: 1.579 ± 0.730 χ^2/NDF : 372.3/50

Out: -13.850 ± 0.730 χ^2/NDF : 795.9/55

All: -6.134 ± 0.516 χ^2/NDF : 1391.5/106

diff_bpm0r05Y_rms vs Slug, Sign Corrected



Right In: 3413.410+/-0.666

χ^2/NDF : 2539041.7/27

Left Out: 4795.847+/-0.795

χ^2/NDF : 361249.7/24

Right Out: 3588.293+/-0.679

χ^2/NDF : 2275055.6/30

Left In: 4784.434+/-0.817

χ^2/NDF : 357507.2/22

Left: 4790.301+/-0.570

χ^2/NDF : 718857.1/47

Right: 3499.110+/-0.475

χ^2/NDF : 4847909.7/58

In: 3960.247+/-0.516

χ^2/NDF : 4587952.6/50

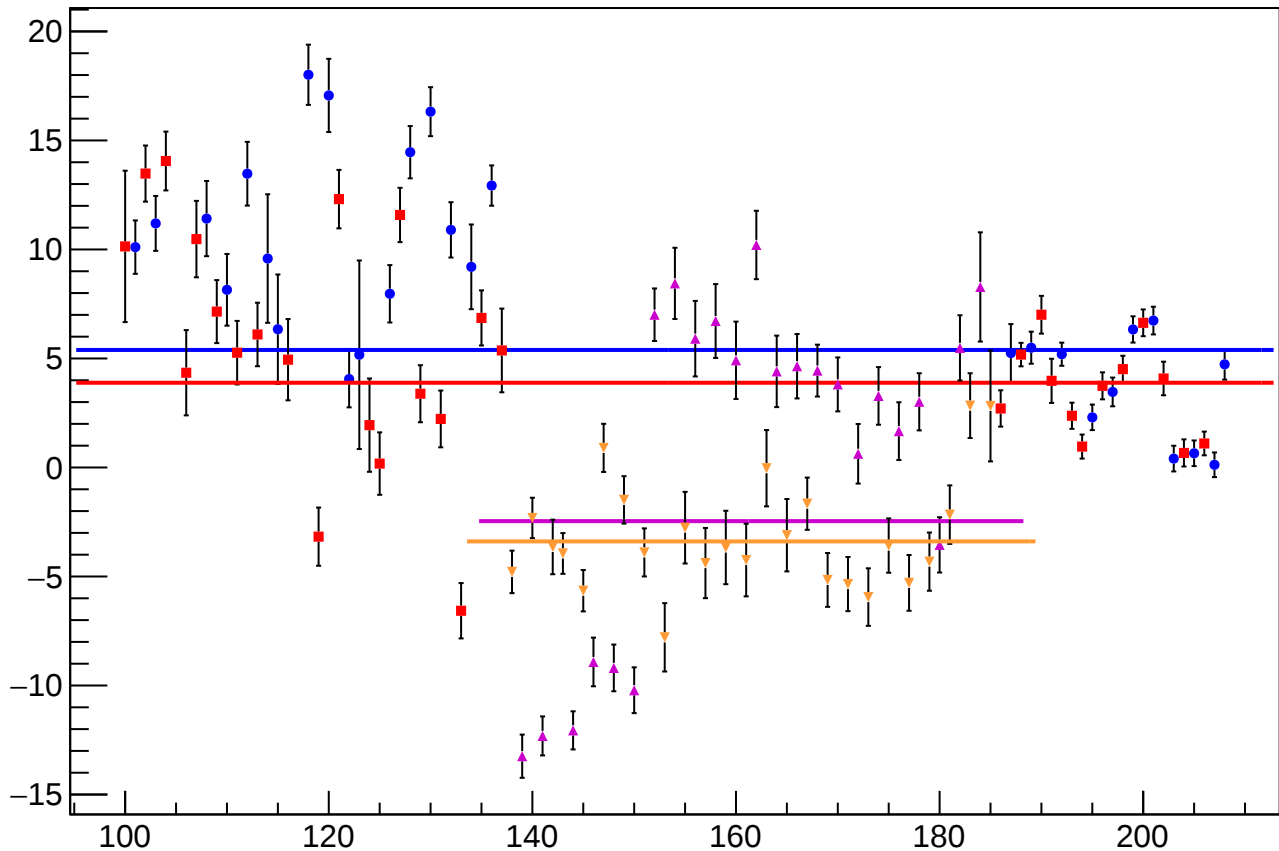
Out: 4097.994+/-0.516

χ^2/NDF : 3970655.5/55

All: 4029.106+/-0.365

χ^2/NDF : 8594205.0/10

diff_bpm2i01X_mean vs Slug, Sign Corrected



Right In: 5.391 ± 0.167 $\chi^2/\text{NDF}: 729.5/27$

Left Out: -3.390 ± 0.252 $\chi^2/\text{NDF}: 77.7/24$

Right Out: 3.887 ± 0.163 $\chi^2/\text{NDF}: 457.0/30$

Left In: -2.461 ± 0.264 $\chi^2/\text{NDF}: 928.0/22$

Left: -2.947 ± 0.183 $\chi^2/\text{NDF}: 1012.2/47$

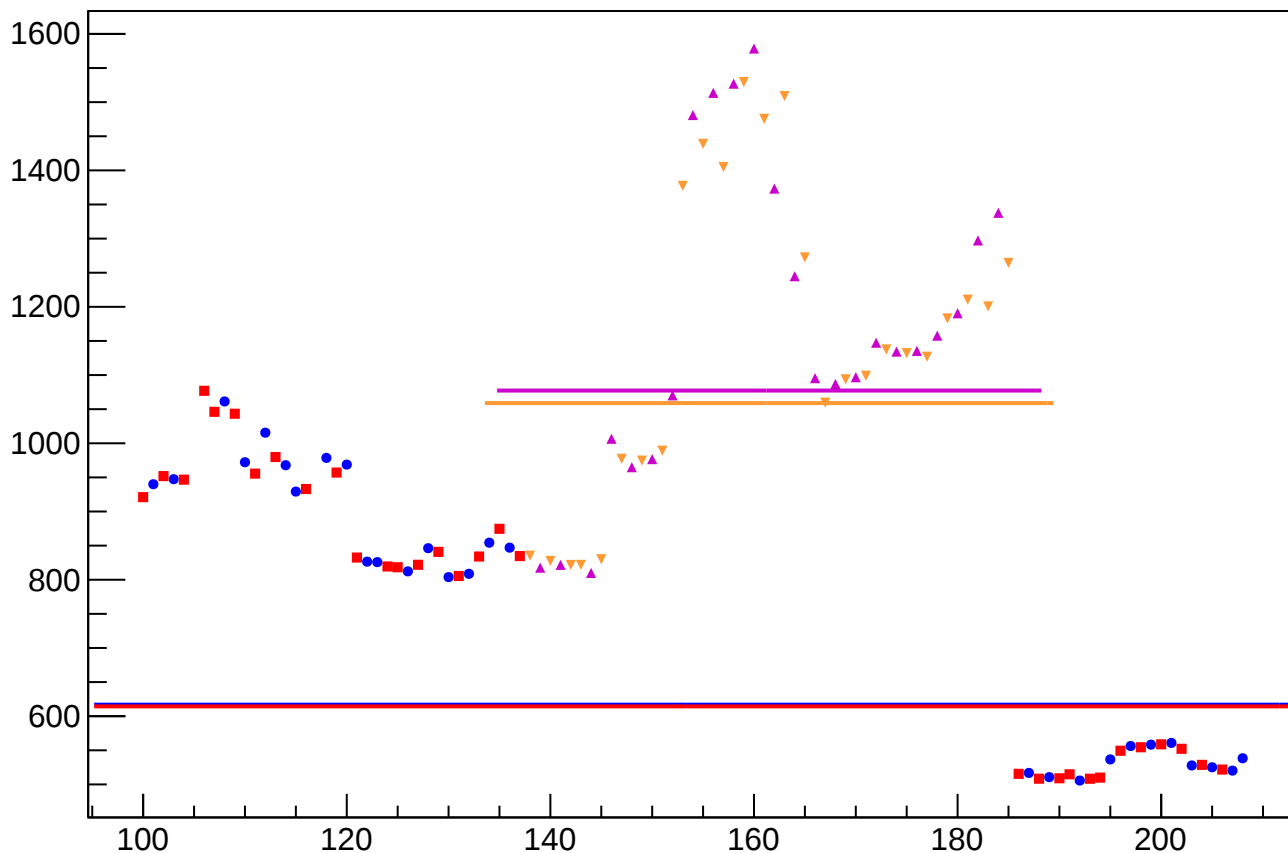
Right: 4.620 ± 0.117 $\chi^2/\text{NDF}: 1227.9/58$

In: 3.145 ± 0.141 $\chi^2/\text{NDF}: 2287.3/50$

Out: 1.740 ± 0.137 $\chi^2/\text{NDF}: 1121.4/55$

All: 2.421 ± 0.098 $\chi^2/\text{NDF}: 3459.7/106$

diff_bpm2i01X_rms vs Slug, Sign Corrected



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

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

Right Out: 614.369 $\pm$ 0.115 χ^2 /NDF: 2007053.6/30

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

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

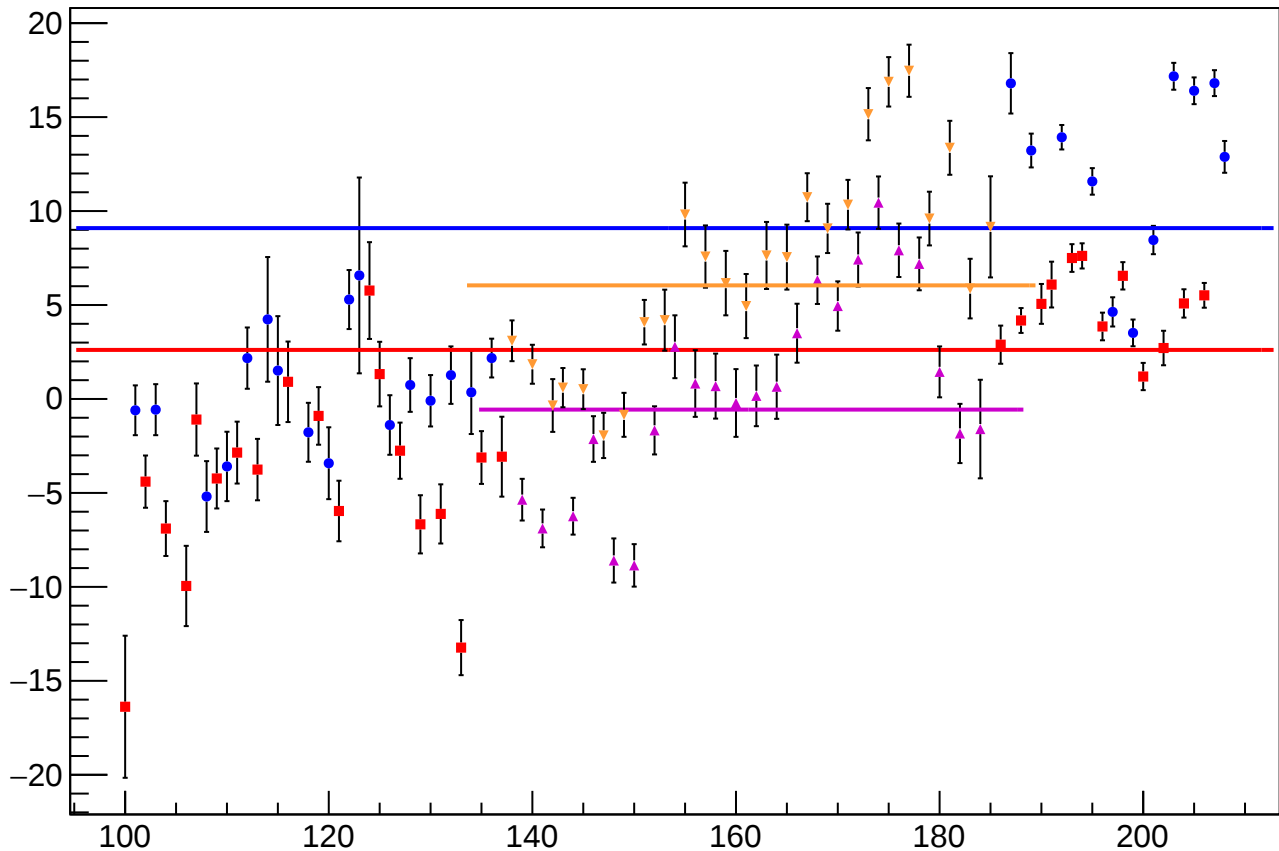
Right: 615.587 $\pm$ 0.083 χ^2 /NDF: 3780198.7/58

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

Out: 745.563 $\pm$ 0.097 χ^2 /NDF: 7789180.1/55

All: 746.999 $\pm$ 0.070 χ^2 /NDF: 15174481.5/10

diff_bpm2i01Y_mean vs Slug, Sign Corrected



Right In: 9.092 ± 0.199 $\chi^2/\text{NDF}: 1127.3/27$

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

Right Out: 2.611 ± 0.195 $\chi^2/\text{NDF}: 617.3/30$

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

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

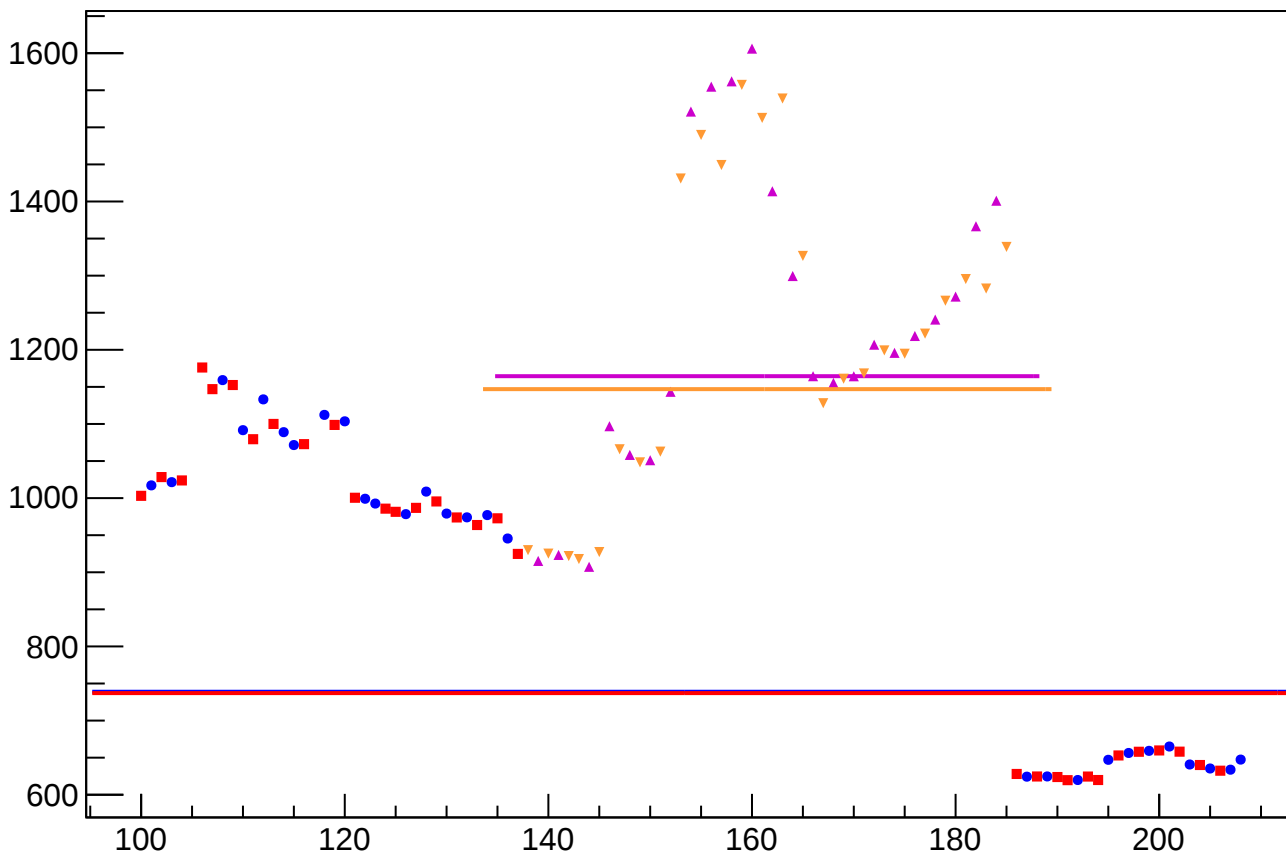
Right: 5.774 ± 0.139 $\chi^2/\text{NDF}: 2286.5/58$

In: 5.909 ± 0.163 $\chi^2/\text{NDF}: 2319.0/50$

Out: 3.775 ± 0.158 $\chi^2/\text{NDF}: 1153.8/55$

All: 4.809 ± 0.114 $\chi^2/\text{NDF}: 3561.0/106$

diff_bpm2i01Y_rms vs Slug, Sign Corrected



Right In: 738.883 $\pm$ 0.141 χ^2 /NDF: 1447667.0/27

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

Right Out: 737.061 $\pm$ 0.138 χ^2 /NDF: 1621336.2/30

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

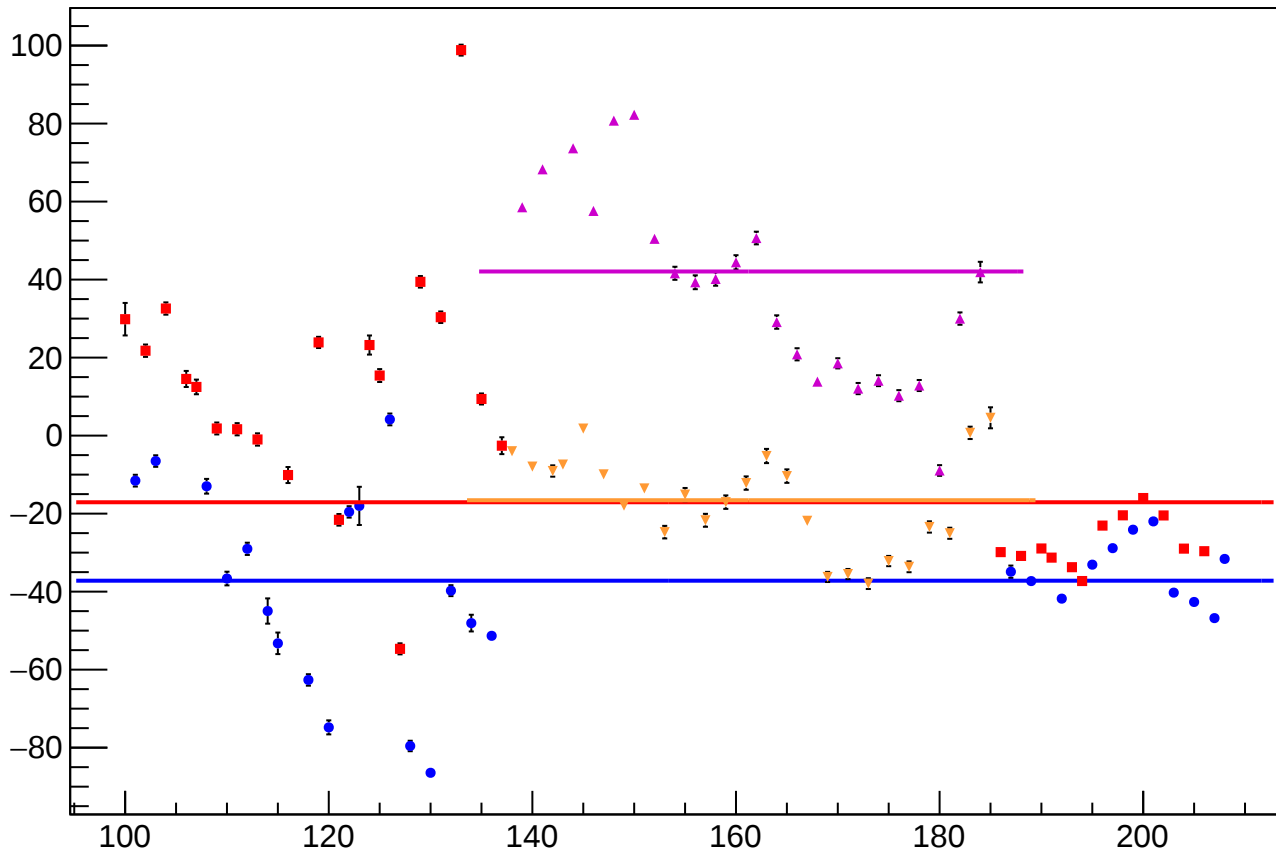
Right: 737.950 $\pm$ 0.098 χ^2 /NDF: 3069088.8/58

In: 879.160 $\pm$ 0.115 χ^2 /NDF: 5399442.1/50

Out: 875.984 $\pm$ 0.112 χ^2 /NDF: 5676972.0/55

All: 877.523 $\pm$ 0.080 χ^2 /NDF: 11076804.9/10

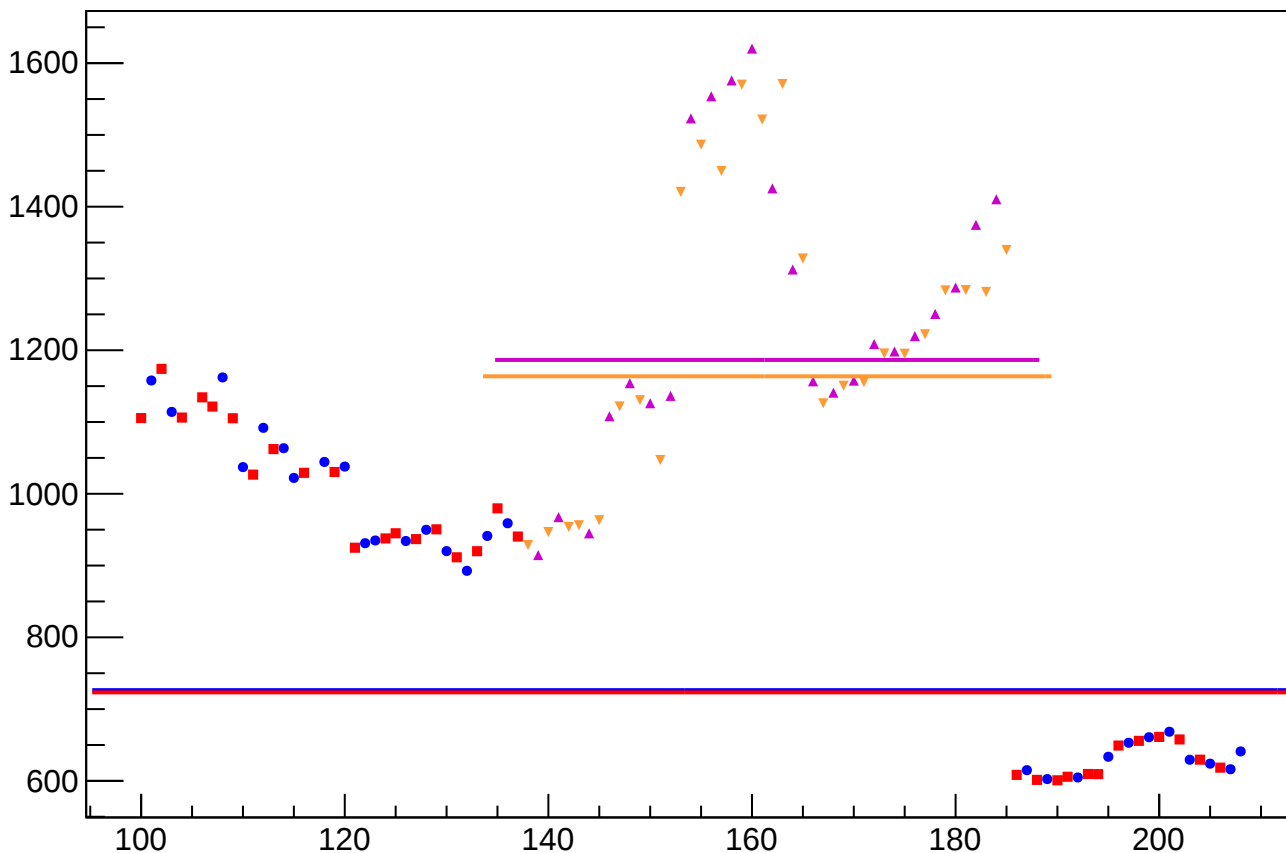
diff_bpm2i02X_mean vs Slug, Sign Corrected



Right In: -37.198±/0.196 χ^2/NDF : 6540.0/27
 Left Out: -16.567±/0.275 χ^2/NDF :1931.2/24
 Right Out: -17.086±/0.191 χ^2/NDF : 17671.1/30
 Left In: 42.077±/0.289 χ^2/NDF :8332.3/22

Left: 11.318±/0.199 χ^2/NDF : 31846.5/47
 Right: -26.882±/0.137 χ^2/NDF : 29616.9/58
 In: -12.251±/0.162 χ^2/NDF :66405.1/50
 Out: -16.918±/0.157 χ^2/NDF :19604.7/55
 All: -14.662±/0.113 χ^2/NDF : 86437.6/106

diff_bpm2i02X_rms vs Slug, Sign Corrected



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

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

Right Out: 723.306 $\pm$ 0.135 χ^2 /NDF: 1637779.1/30

Left In: 1186.476 $\pm$ 0.204 χ^2 /NDF: 833420.3/22

Left: 1174.525 $\pm$ 0.141 χ^2 /NDF: 1776015.7/47

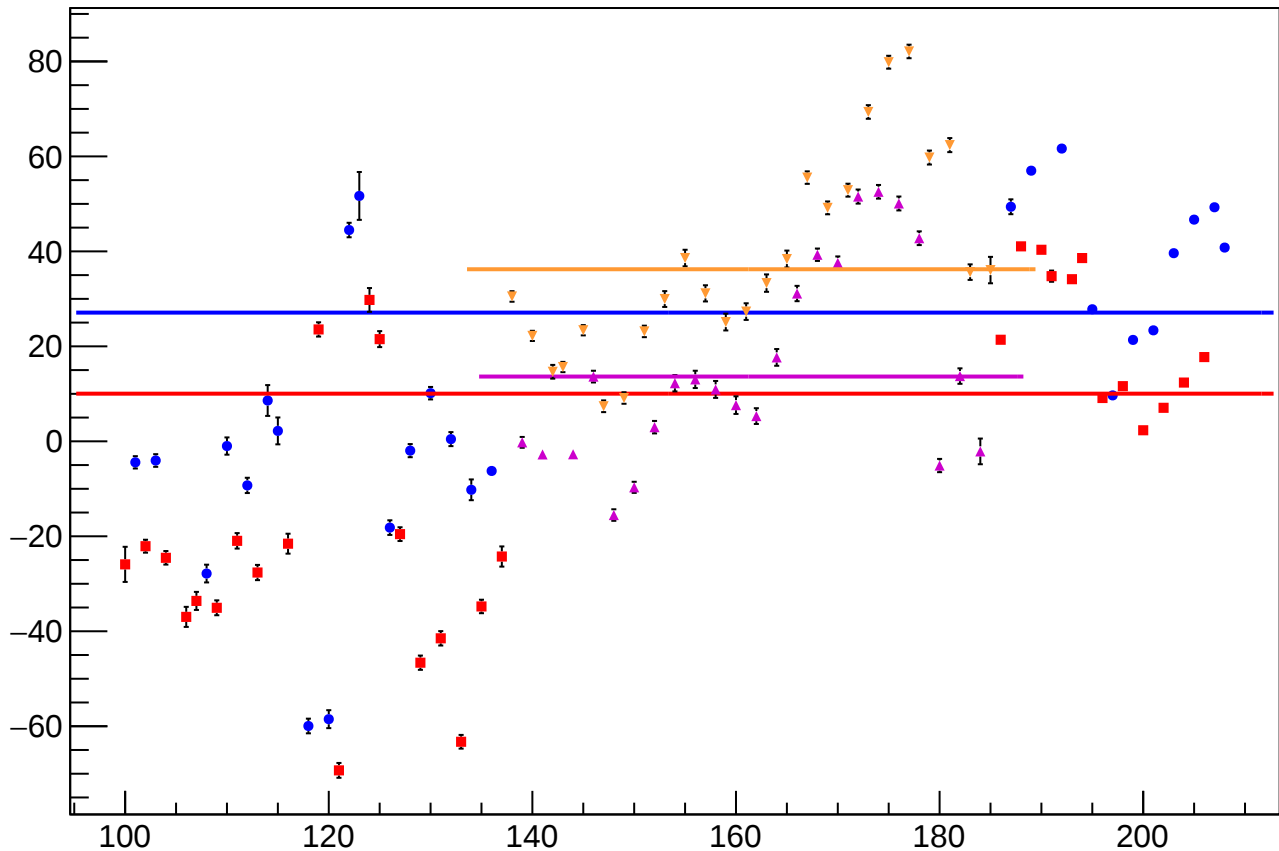
Right: 724.814 $\pm$ 0.097 χ^2 /NDF: 3104934.8/58

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

Out: 866.333 $\pm$ 0.111 χ^2 /NDF: 6030501.4/55

All: 868.676 $\pm$ 0.080 χ^2 /NDF: 11803122.3/10

diff_bpm2i02Y_mean vs Slug, Sign Corrected



Right In: 27.104 $\pm$ 0.194 χ^2 /NDF: 18897.2/27

Left Out: 36.234 $\pm$ 0.280 χ^2 /NDF: 5794.2/24

Right Out: 10.035 $\pm$ 0.189 χ^2 /NDF: 21040.9/30

Left In: 13.640 $\pm$ 0.293 χ^2 /NDF: 5178.0/22

Left: 25.447 $\pm$ 0.202 χ^2 /NDF: 14084.0/47

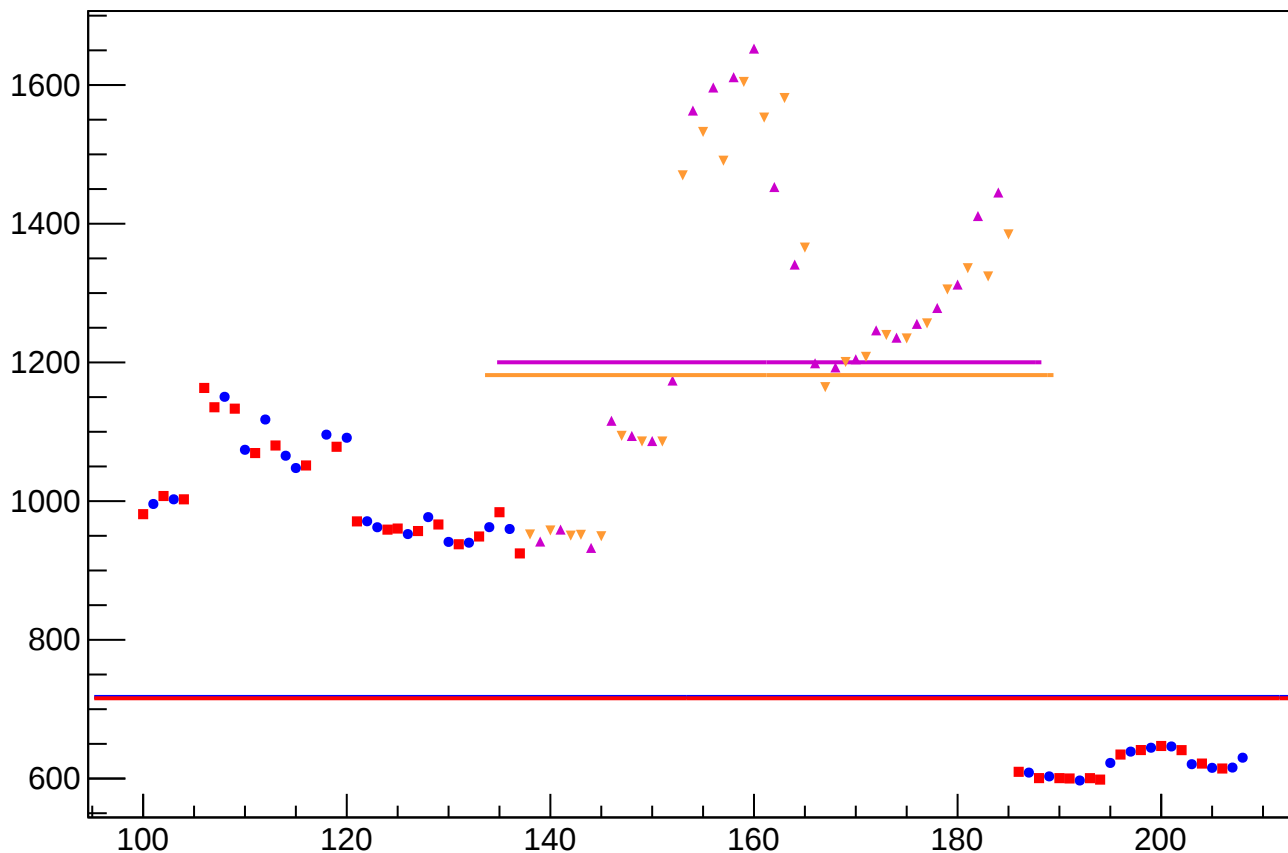
Right: 18.363 $\pm$ 0.135 χ^2 /NDF: 43913.1/58

In: 23.004 $\pm$ 0.162 χ^2 /NDF: 25545.9/50

Out: 18.247 $\pm$ 0.157 χ^2 /NDF: 32851.4/55

All: 20.553 $\pm$ 0.112 χ^2 /NDF: 58843.9/106

diff_bpm2i02Y_rms vs Slug, Sign Corrected



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

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

Right Out: 715.747 $\pm$ 0.134 χ^2 /NDF: 1702862.7/30

Left In: 1200.198 $\pm$ 0.207 χ^2 /NDF:938224.7/22

Left: 1190.549 $\pm$ 0.143 χ^2 /NDF: 1985902.3/47

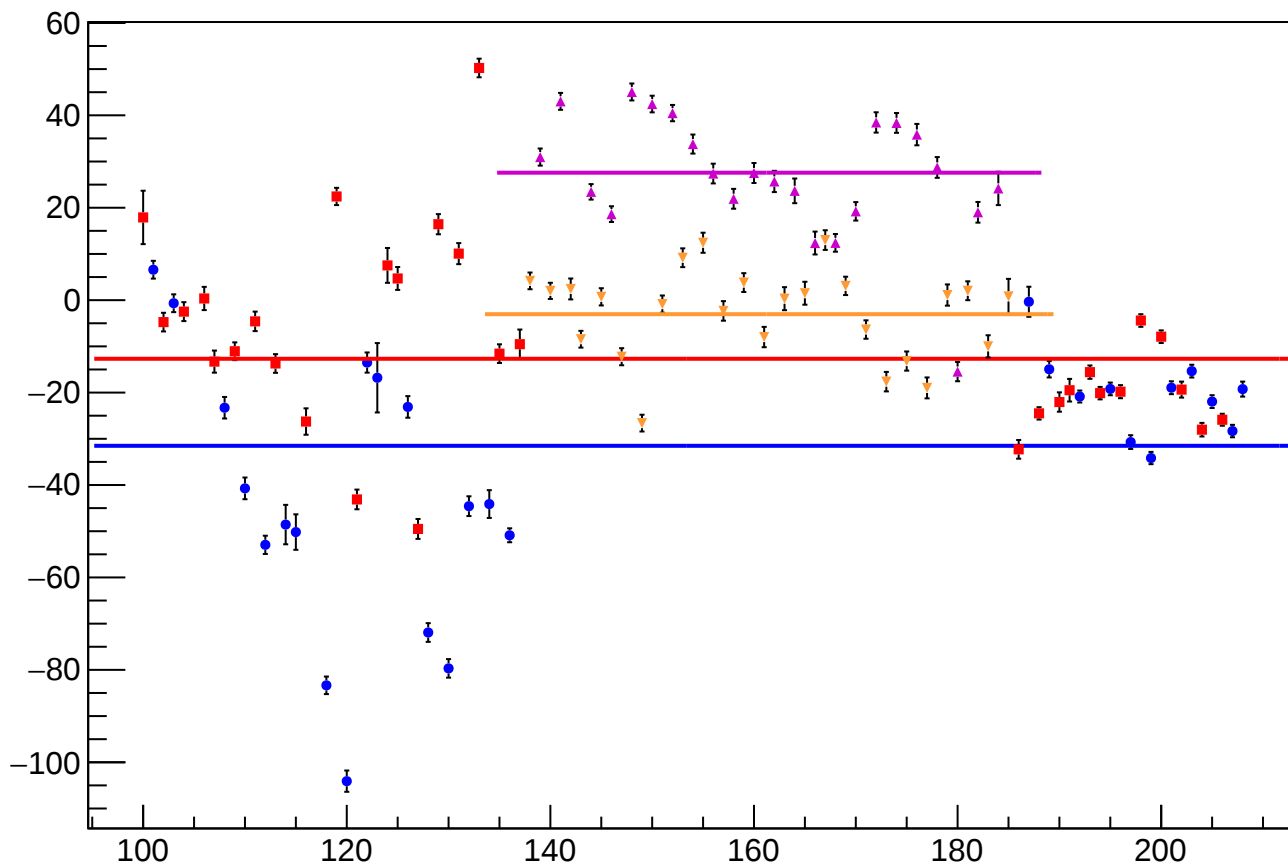
Right: 716.682 $\pm$ 0.096 χ^2 /NDF: 3226671.4/58

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

Out: 861.817 $\pm$ 0.111 χ^2 /NDF:6552771.6/55

All: 863.164 $\pm$ 0.080 χ^2 /NDF: 12792990.9/10

diff_bpm0i02X_mean vs Slug, Sign Corrected



Right In: -31.515 $\pm$ 0.344 χ^2/NDF : 4509.4/27

Left Out: -3.037 $\pm$ 0.415 χ^2/NDF : 555.6/24

Right Out: -12.684 $\pm$ 0.336 χ^2/NDF : 2851.1/30

Left In: 27.583 $\pm$ 0.429 χ^2/NDF : 960.1/22

Left: 11.767 $\pm$ 0.298 χ^2/NDF : 4146.6/47

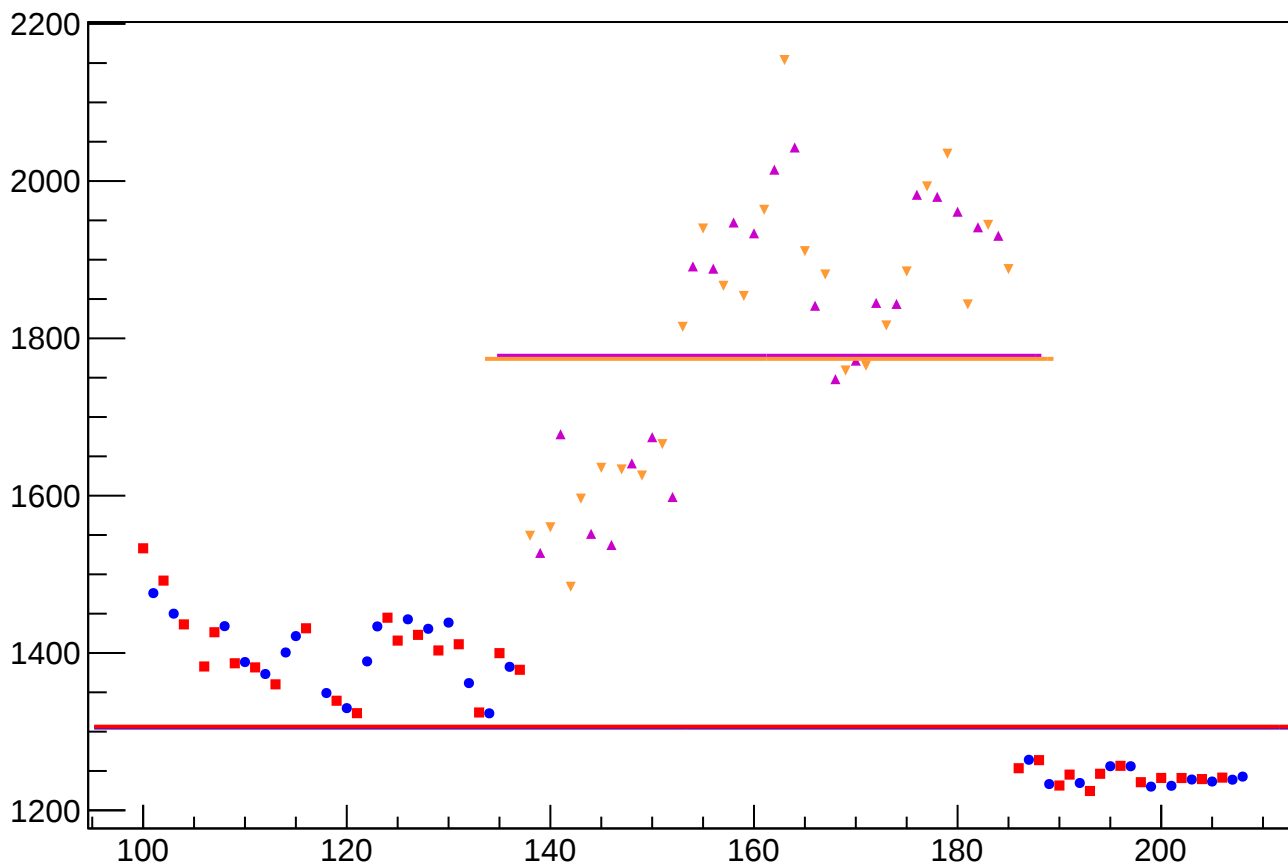
Right: -21.891 $\pm$ 0.240 χ^2/NDF : 8895.6/58

In: -8.422 $\pm$ 0.268 χ^2/NDF : 17029.8/50

Out: -8.864 $\pm$ 0.261 χ^2/NDF : 3732.9/55

All: -8.649 $\pm$ 0.187 χ^2/NDF : 20764.1/106

diff_bpm0i02X_rms vs Slug, Sign Corrected



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

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

Right Out: 1306.320 $\pm$ 0.238 χ^2 /NDF: 115092.8/30

Left In: 1777.884 $\pm$ 0.303 χ^2 /NDF: 299514.0/22

Left: 1775.860 $\pm$ 0.211 χ^2 /NDF: 612631.3/47

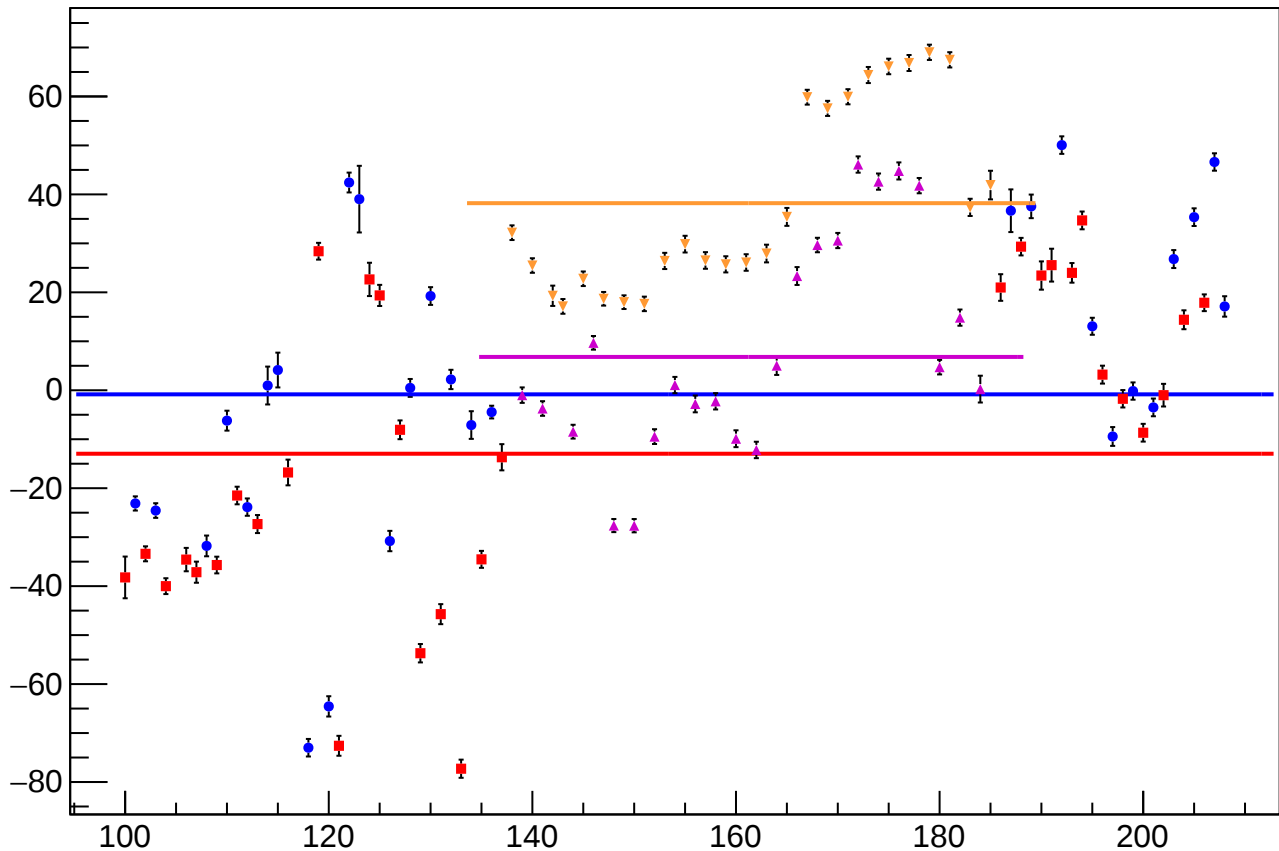
Right: 1305.793 $\pm$ 0.170 χ^2 /NDF: 234624.0/58

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

Out: 1491.496 $\pm$ 0.185 χ^2 /NDF: 1961487.9/55

All: 1490.736 $\pm$ 0.132 χ^2 /NDF: 3859371.6/10

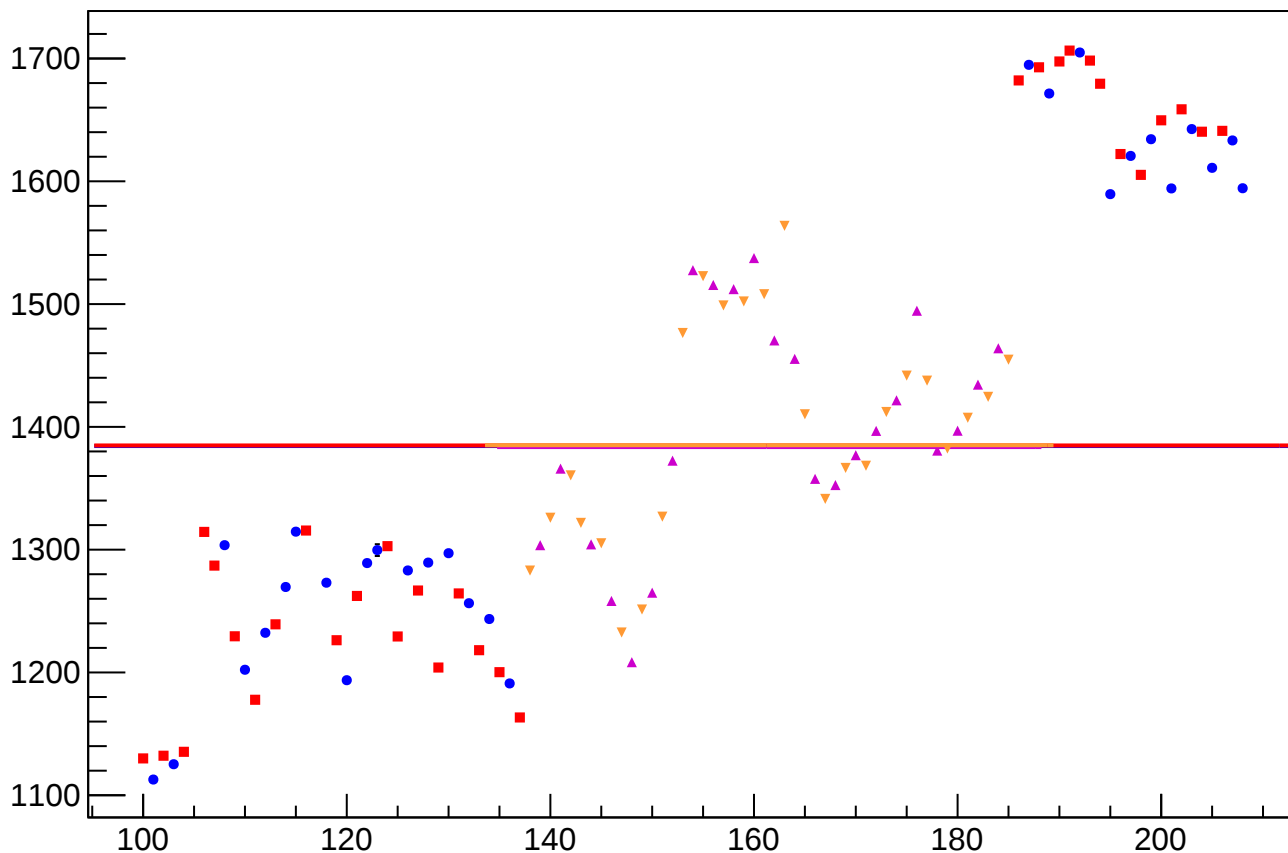
diff_bpm0i02Y_mean vs Slug, Sign Corrected



Right In: -0.833+/-0.368 χ^2/NDF : 6921.4/27
 Left Out: 38.206+/-0.323 χ^2/NDF :3514.2/24
 Right Out: -12.961+/-0.360 χ^2/NDF : 7541.1/30
 Left In: 6.808+/-0.333 χ^2/NDF :4494.5/22

Left: 22.967+/-0.232 χ^2/NDF : 12584.4/47
 Right: -7.027+/-0.257 χ^2/NDF : 15017.8/58
 In: 3.367+/-0.247 χ^2/NDF :11653.1/50
 Out: 15.356+/-0.241 χ^2/NDF :22236.0/55
 All: 9.516+/-0.172 χ^2/NDF : 35099.0/106

diff_bpm0i02Y_rms vs Slug, Sign Corrected



Right In: 1384.390 $\pm$ 0.260 χ^2 /NDF: 627018.2/27

Left Out: 1385.063 $\pm$ 0.229 χ^2 /NDF:146001.5/24

Right Out: 1384.871 $\pm$ 0.255 χ^2 /NDF: 735483.5/30

Left In: 1383.558 $\pm$ 0.235 χ^2 /NDF:154696.0/22

Left: 1384.333 $\pm$ 0.164 χ^2 /NDF: 300718.5/47

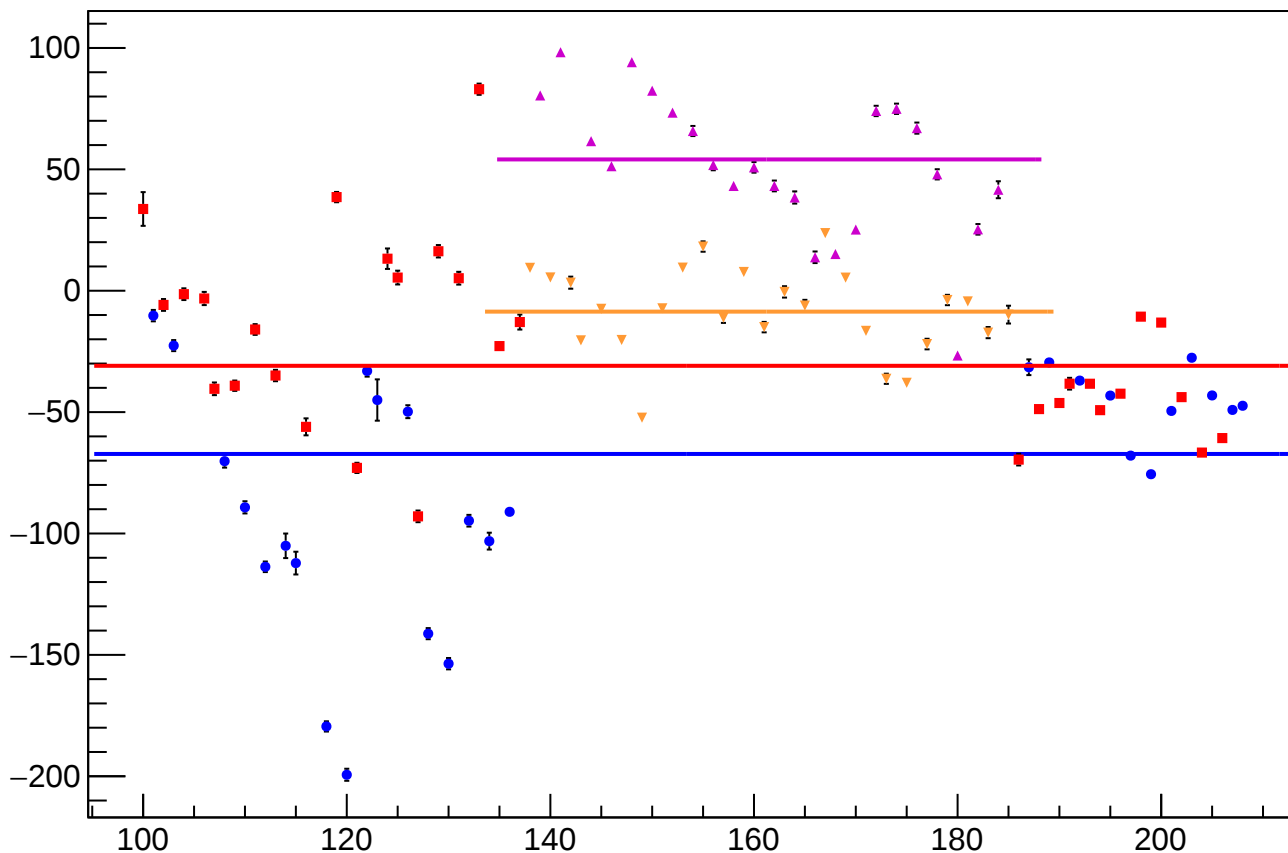
Right: 1384.636 $\pm$ 0.182 χ^2 /NDF: 1362503.4/58

In: 1383.932 $\pm$ 0.175 χ^2 /NDF:781719.8/50

Out: 1384.978 $\pm$ 0.170 χ^2 /NDF:881485.3/55

All: 1384.468 $\pm$ 0.122 χ^2 /NDF: 1663223.4/100

diff_bpm0i02aX_mean vs Slug, Sign Corrected



Right In: -67.236 ± 0.384 $\chi^2/\text{NDF}: 13049.1/27$

Left Out: -8.606 ± 0.410 $\chi^2/\text{NDF}: 1930.5/24$

Right Out: -30.923 ± 0.370 $\chi^2/\text{NDF}: 7895.7/30$

Left In: 54.089 ± 0.426 $\chi^2/\text{NDF}: 4721.6/22$

Left: 21.586 ± 0.295 $\chi^2/\text{NDF}: 17900.0/47$

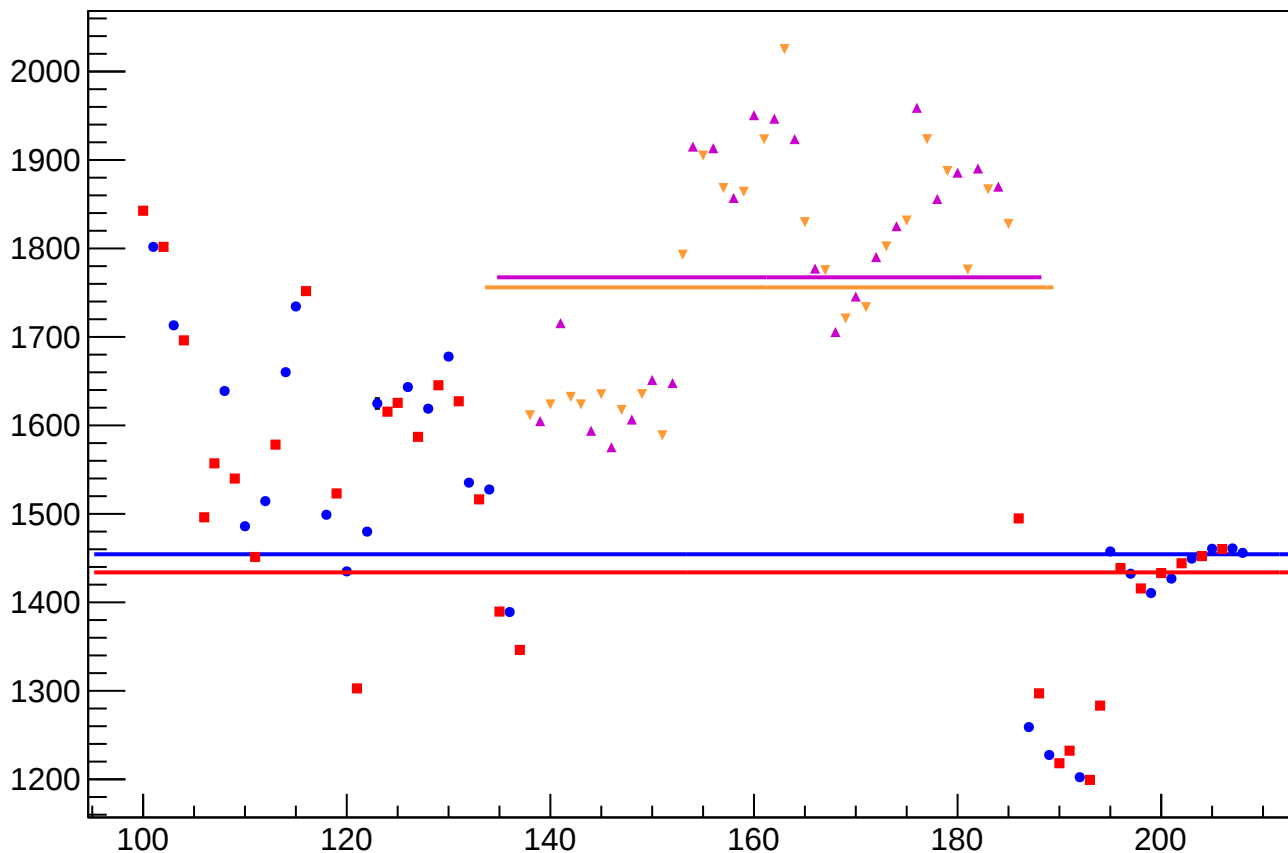
Right: -48.415 ± 0.266 $\chi^2/\text{NDF}: 25583.1/58$

In: -12.818 ± 0.285 $\chi^2/\text{NDF}: 62576.8/50$

Out: -20.910 ± 0.275 $\chi^2/\text{NDF}: 11458.1/55$

All: -17.013 ± 0.198 $\chi^2/\text{NDF}: 74452.6/106$

diff_bpm0i02aX_rms vs Slug, Sign Corrected



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

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

Right Out: 1433.870 $\pm$ 0.262 χ^2 /NDF: 308738.2/30

Left In: 1767.410 $\pm$ 0.301 χ^2 /NDF:187958.2/22

Left: 1761.512 $\pm$ 0.209 χ^2 /NDF: 364461.2/47

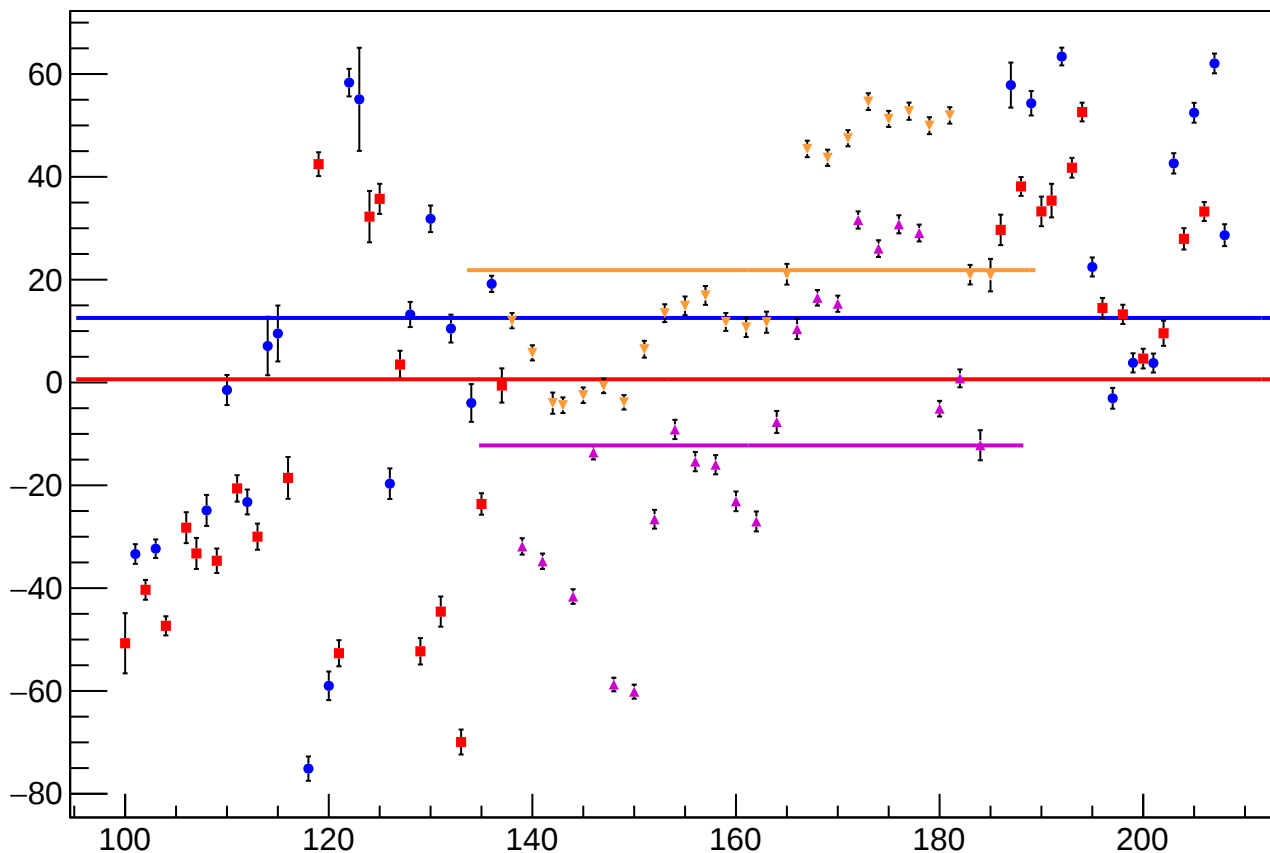
Right: 1443.739 $\pm$ 0.188 χ^2 /NDF: 573262.9/58

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

Out: 1578.412 $\pm$ 0.194 χ^2 /NDF:1164596.9/55

All: 1586.291 $\pm$ 0.140 χ^2 /NDF: 2214171.9/10

diff_bpm0i02aY_mean vs Slug, Sign Corrected



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

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

Right Out: 0.628+/-0.428 χ^2/NDF : 7085.8/30

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

Left: 5.391+/-0.241 χ^2/NDF : 15885.7/47

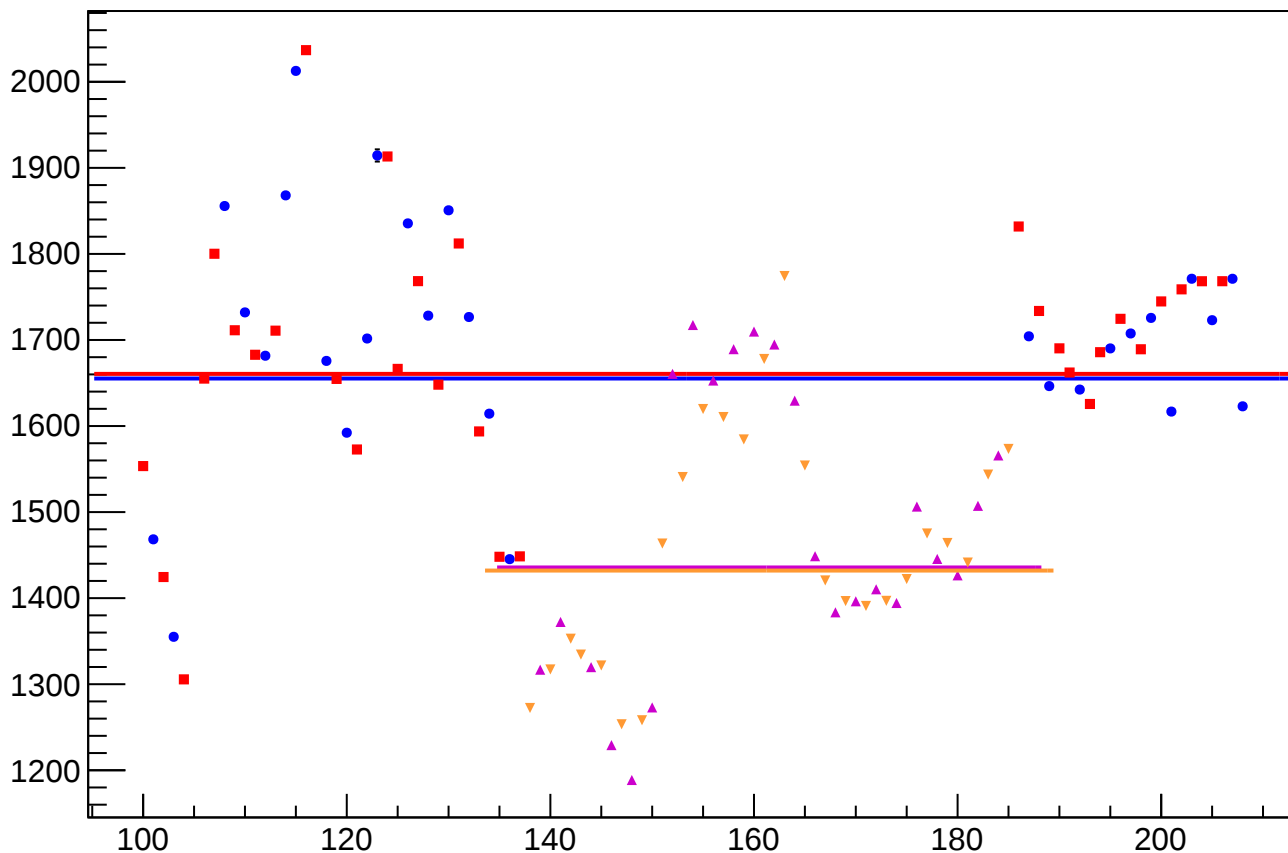
Right: 6.471+/-0.306 χ^2/NDF : 14406.8/58

In: -2.651+/-0.272 χ^2/NDF : 15698.1/50

Out: 13.785+/-0.264 χ^2/NDF : 12720.0/55

All: 5.805+/-0.189 χ^2/NDF : 30300.2/106

diff_bpm0i02aY_rms vs Slug, Sign Corrected



Right In: 1655.222 $\pm$ 0.309 χ^2 /NDF: 180379.6/27

Left Out: 1432.060 $\pm$ 0.237 χ^2 /NDF: 297360.3/24

Right Out: 1660.595 $\pm$ 0.303 χ^2 /NDF: 206134.3/30

Left In: 1435.645 $\pm$ 0.245 χ^2 /NDF: 420835.0/22

Left: 1433.791 $\pm$ 0.171 χ^2 /NDF: 718305.7/47

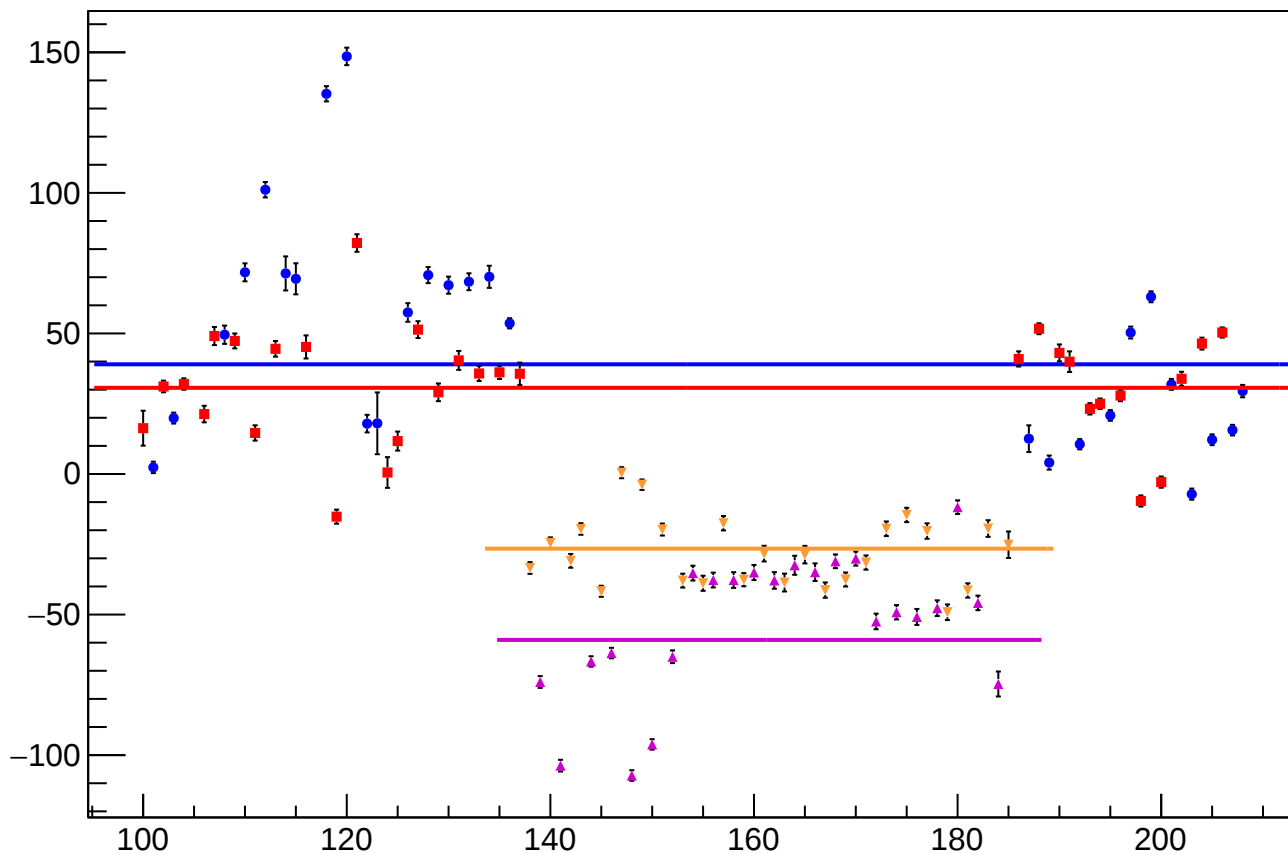
Right: 1657.963 $\pm$ 0.216 χ^2 /NDF: 386668.2/58

In: 1520.597 $\pm$ 0.192 χ^2 /NDF: 910954.1/50

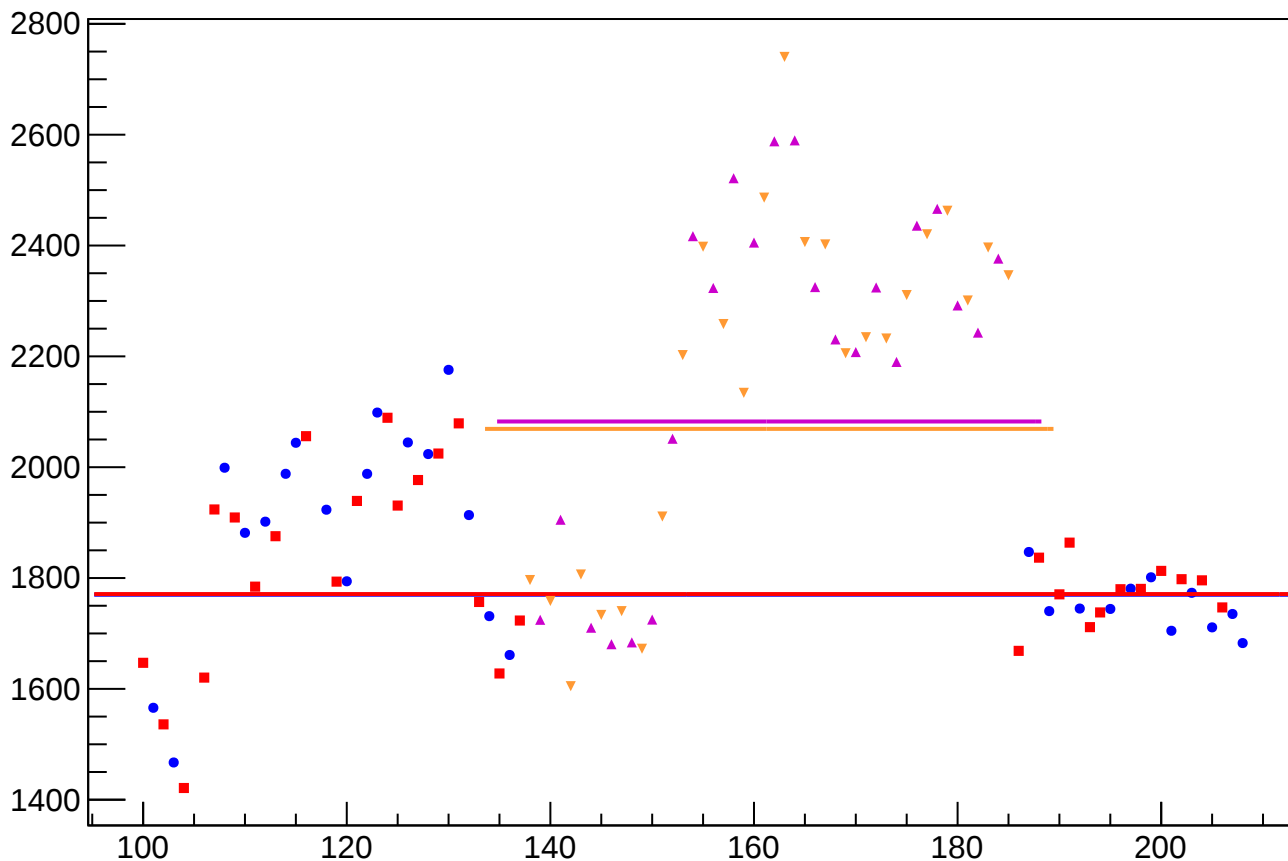
Out: 1518.944 $\pm$ 0.187 χ^2 /NDF: 856684.3/55

All: 1519.746 $\pm$ 0.134 χ^2 /NDF: 1767676.5/100

diff_bpm0i05X_mean vs Slug, Sign Corrected



diff_bpm0i05X_rms vs Slug, Sign Corrected



Right In: 1769.911 $\pm$ 0.330

χ^2/NDF : 197816.9/27

Left: 2075.572 $\pm$ 0.248

χ^2/NDF : 1585062.9/47

Left Out: 2069.146 $\pm$ 0.345

χ^2/NDF : 799037.9/24

Right: 1770.498 $\pm$ 0.231

χ^2/NDF : 386285.5/58

Right Out: 1771.058 $\pm$ 0.323

χ^2/NDF : 188462.5/30

In: 1913.585 $\pm$ 0.243

χ^2/NDF : 1394873.1/50

Out: 1910.162 $\pm$ 0.236

χ^2/NDF : 1385731.2/55

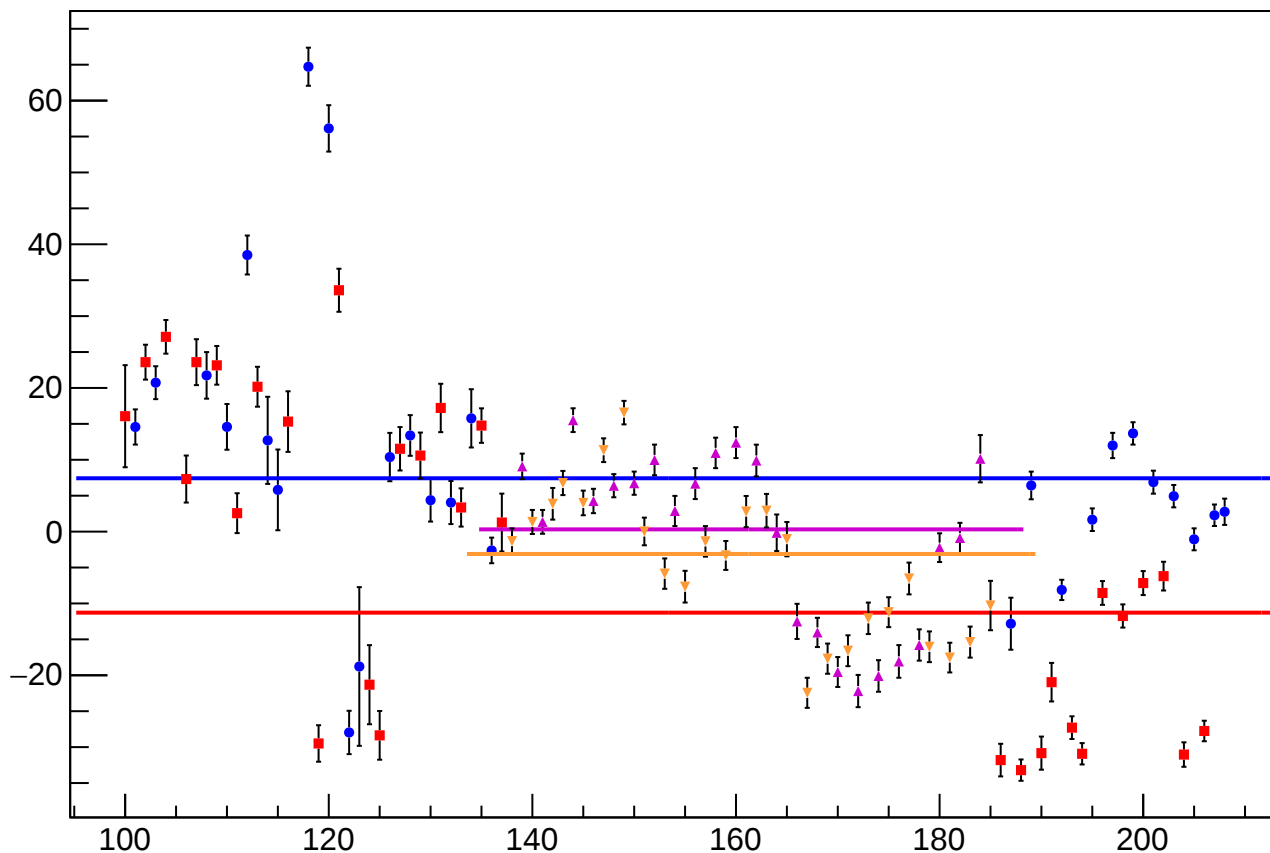
Left In: 2082.497 $\pm$ 0.358

χ^2/NDF : 785304.0/22

All: 1911.822 $\pm$ 0.169

χ^2/NDF : 2780706.7/10

diff_bpm0i05Y_mean vs Slug, Sign Corrected



Right In: 7.427 $\pm$ 0.413 χ^2/NDF : 1320.4/27

Left Out: -3.112 $\pm$ 0.404 χ^2/NDF : 643.7/24

Right Out: -11.281 $\pm$ 0.405 χ^2/NDF : 2579.2/30

Left In: 0.312 $\pm$ 0.421 χ^2/NDF : 736.5/22

Left: -1.470 $\pm$ 0.292 χ^2/NDF : 1414.7/47

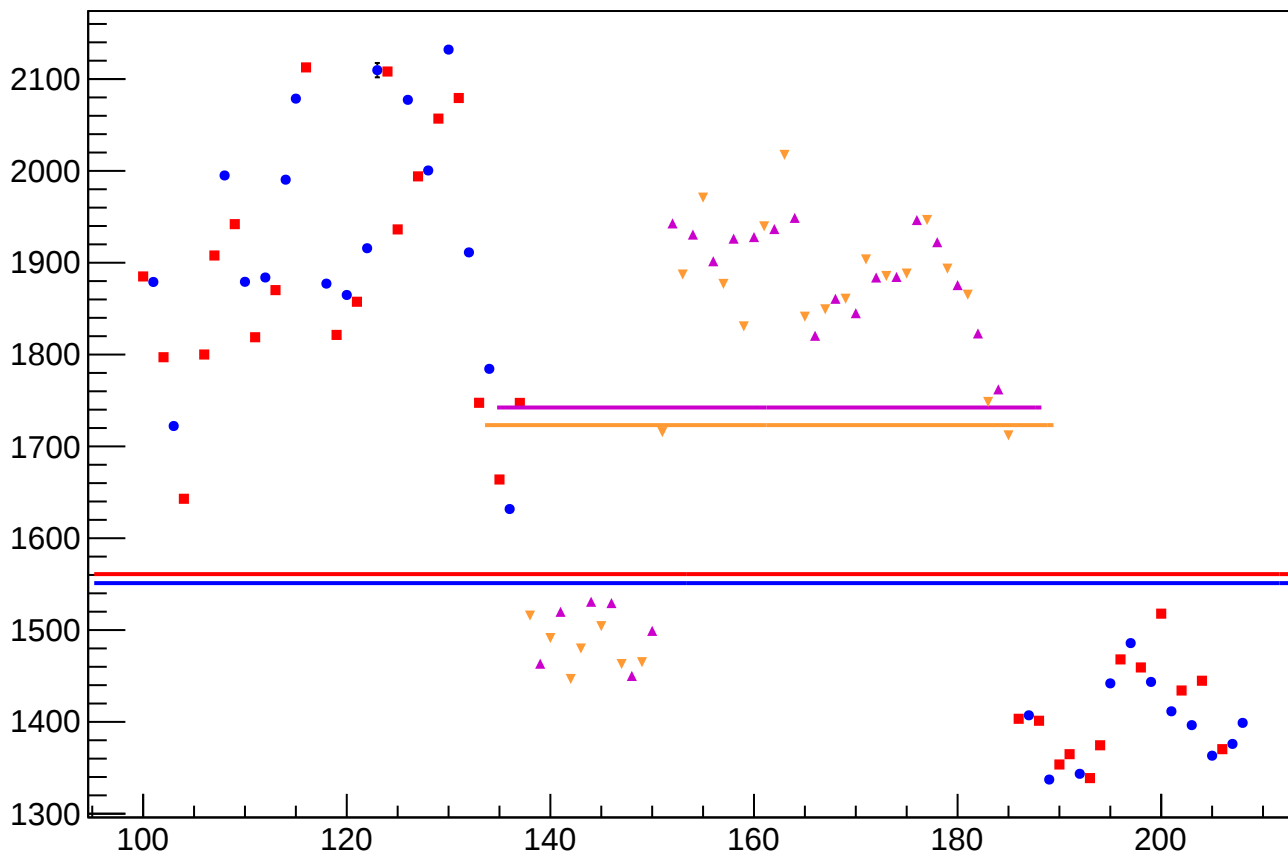
Right: -2.097 $\pm$ 0.289 χ^2/NDF : 4946.5/58

In: 3.942 $\pm$ 0.295 χ^2/NDF : 2202.6/50

Out: -7.187 $\pm$ 0.286 χ^2/NDF : 3426.7/55

All: -1.786 $\pm$ 0.205 χ^2/NDF : 6363.4/106

diff_bpm0i05Y_rms vs Slug, Sign Corrected



Right In: 1551.113 $\pm$ 0.292 χ^2/NDF : 661757.5/27

Left Out: 1723.168 $\pm$ 0.286 χ^2/NDF : 477441.1/24

Right Out: 1560.924 $\pm$ 0.286 χ^2/NDF : 614272.2/30

Left In: 1742.354 $\pm$ 0.298 χ^2/NDF : 435841.5/22

Left: 1732.370 $\pm$ 0.206 χ^2/NDF : 915443.3/47

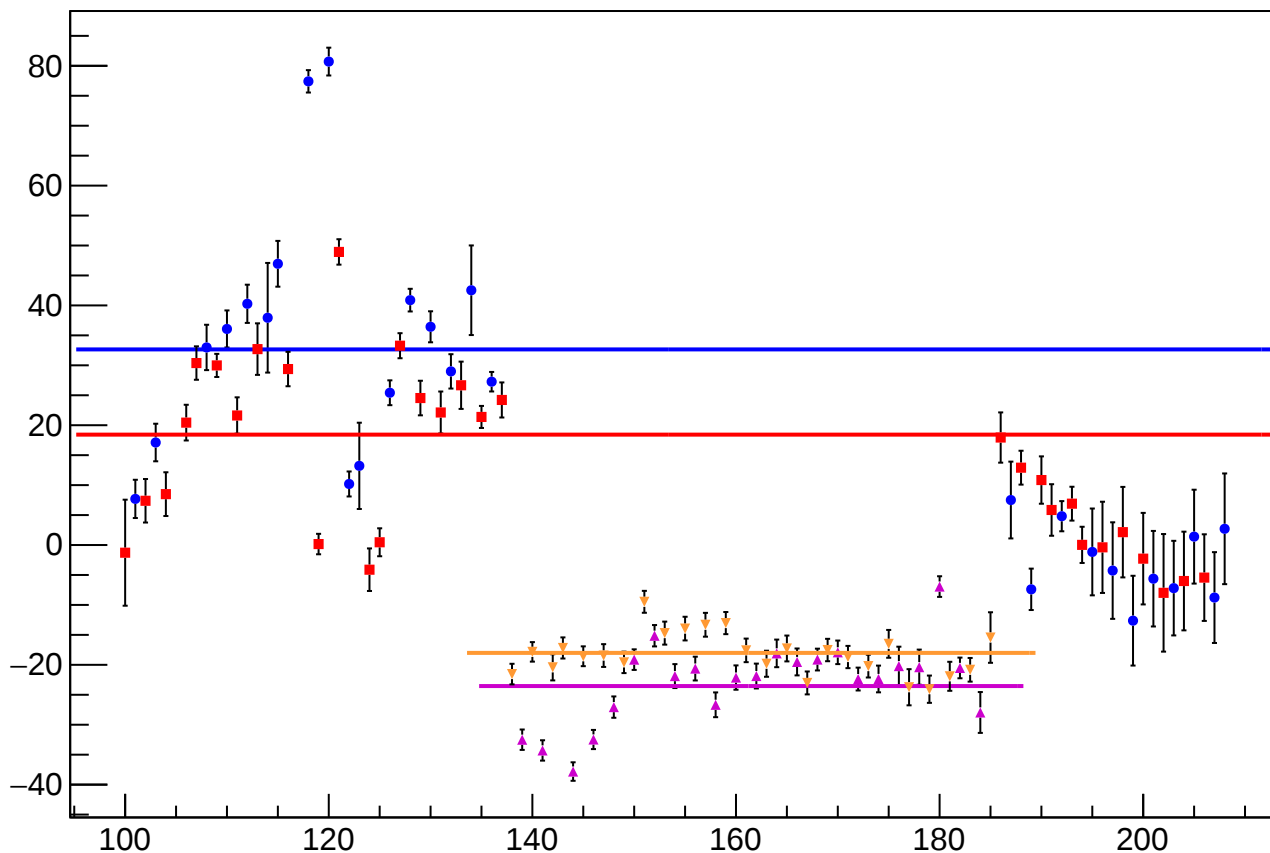
Right: 1556.108 $\pm$ 0.204 χ^2/NDF : 1276605.5/58

In: 1644.772 $\pm$ 0.208 χ^2/NDF : 1308097.8/50

Out: 1642.221 $\pm$ 0.202 χ^2/NDF : 1252452.9/55

All: 1643.459 $\pm$ 0.145 χ^2/NDF : 2560627.9/10

diff_bpm0i07X_mean vs Slug, Sign Corrected



Right In: 32.656 ± 0.593 $\chi^2/\text{NDF}: 1734.8/27$

Left Out: -18.007 ± 0.397 $\chi^2/\text{NDF}: 73.8/24$

Right Out: 18.429 ± 0.549 $\chi^2/\text{NDF}: 705.2/30$

Left In: -23.544 ± 0.406 $\chi^2/\text{NDF}: 346.7/22$

Left: -20.714 ± 0.284 $\chi^2/\text{NDF}: 515.7/47$

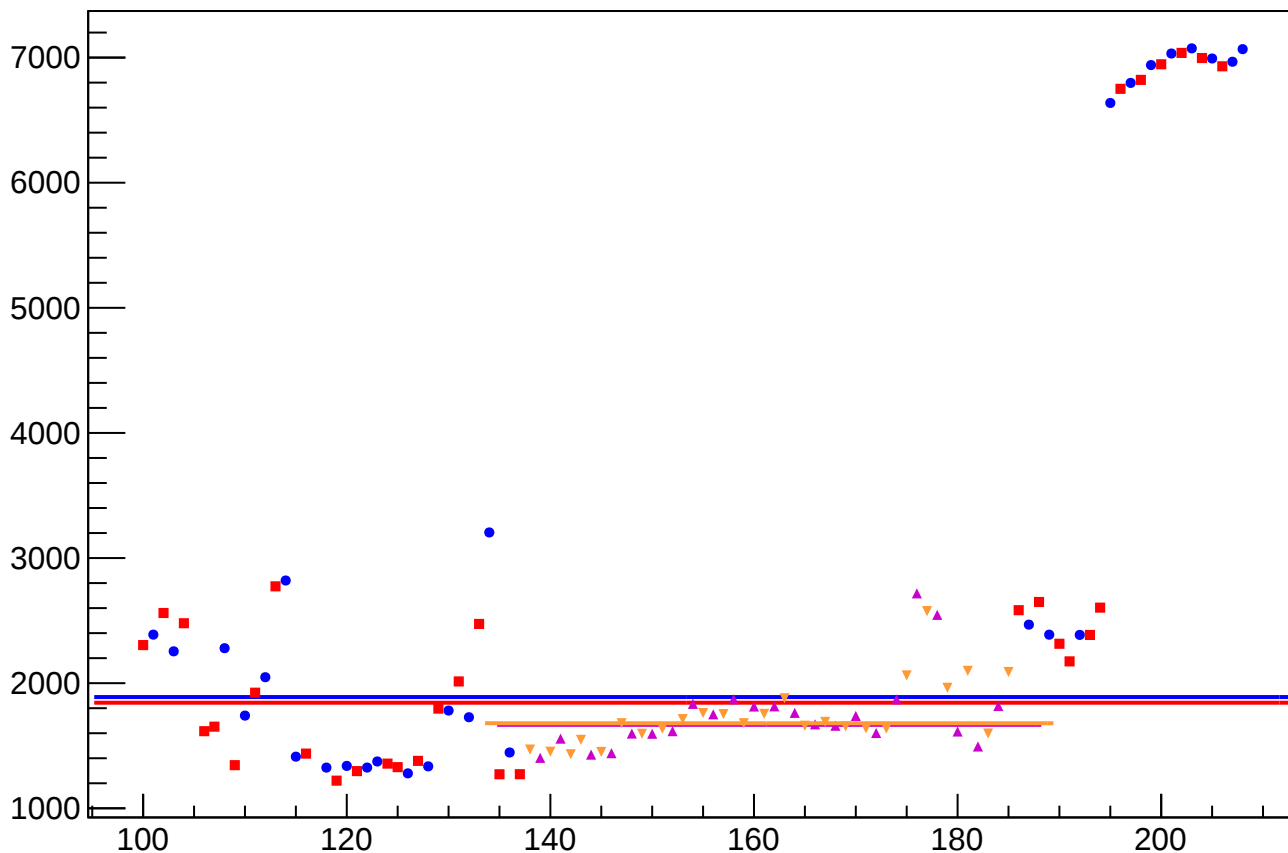
Right: 24.993 ± 0.403 $\chi^2/\text{NDF}: 2750.3/58$

In: -5.619 ± 0.335 $\chi^2/\text{NDF}: 8203.7/50$

Out: -5.498 ± 0.321 $\chi^2/\text{NDF}: 3675.4/55$

All: -5.556 ± 0.232 $\chi^2/\text{NDF}: 11879.1/106$

diff_bpm0i07X_rms vs Slug, Sign Corrected



Right In: 1889.013 $\pm$ 0.419 χ^2 /NDF: 7885972.7/27

Left Out: 1679.814 $\pm$ 0.281 χ^2 /NDF: 522795.6/24

Right Out: 1843.953 $\pm$ 0.388 χ^2 /NDF: 6779905.0/30

Left In: 1666.819 $\pm$ 0.287 χ^2 /NDF: 650990.8/22

Left: 1673.462 $\pm$ 0.201 χ^2 /NDF: 1174835.7/47

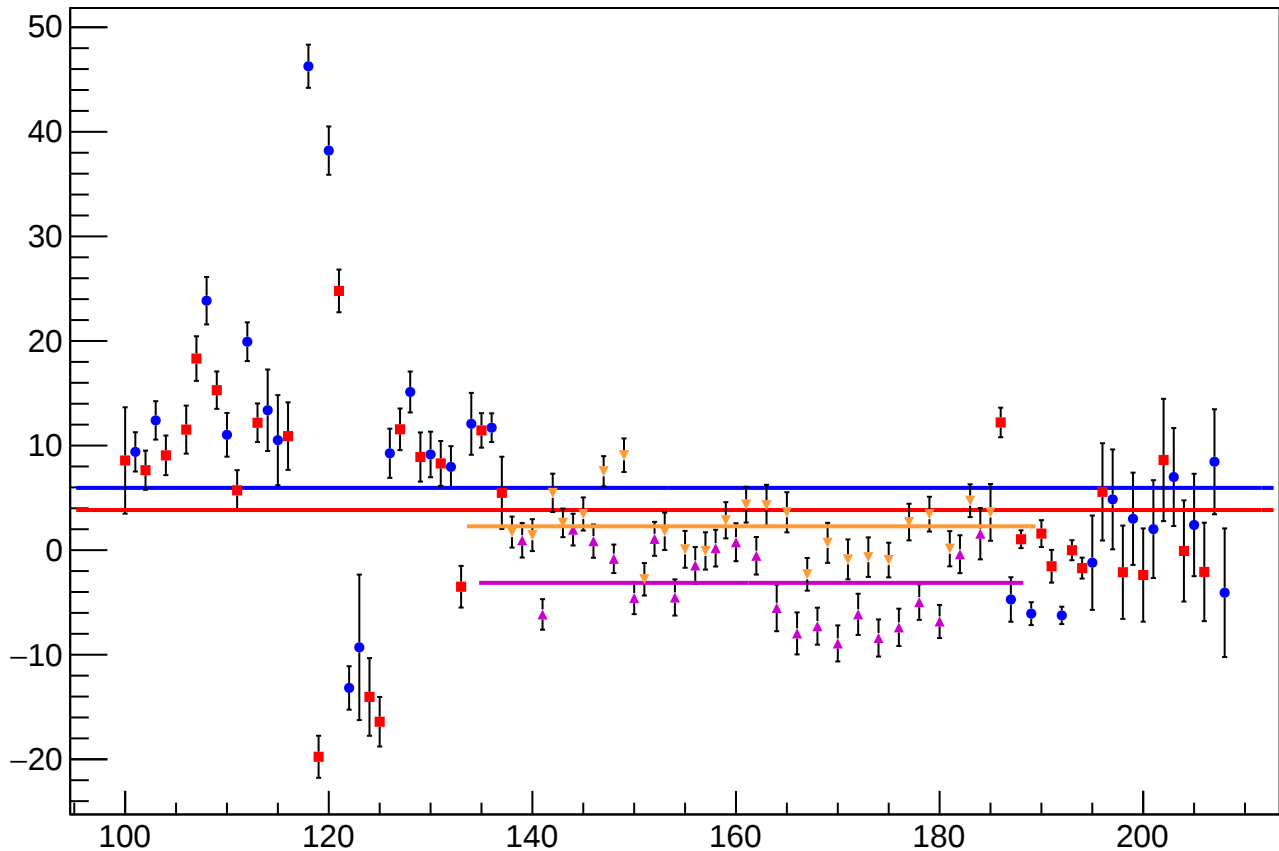
Right: 1864.744 $\pm$ 0.285 χ^2 /NDF: 14672102.5/58

In: 1737.691 $\pm$ 0.237 χ^2 /NDF: 8728354.0/50

Out: 1736.166 $\pm$ 0.227 χ^2 /NDF: 7420255.5/55

All: 1736.897 $\pm$ 0.164 χ^2 /NDF: 16148631.1/102

diff_bpm0i07Y_mean vs Slug, Sign Corrected



Right In: 5.952 $\pm$ 0.393 χ^2/NDF : 1229.3/27

Left Out: 2.280 $\pm$ 0.338 χ^2/NDF : 75.6/24

Right Out: 3.836 $\pm$ 0.327 χ^2/NDF : 650.4/30

Left In: -3.129 $\pm$ 0.358 χ^2/NDF : 103.4/22

Left: -0.274 $\pm$ 0.246 χ^2/NDF : 299.7/47

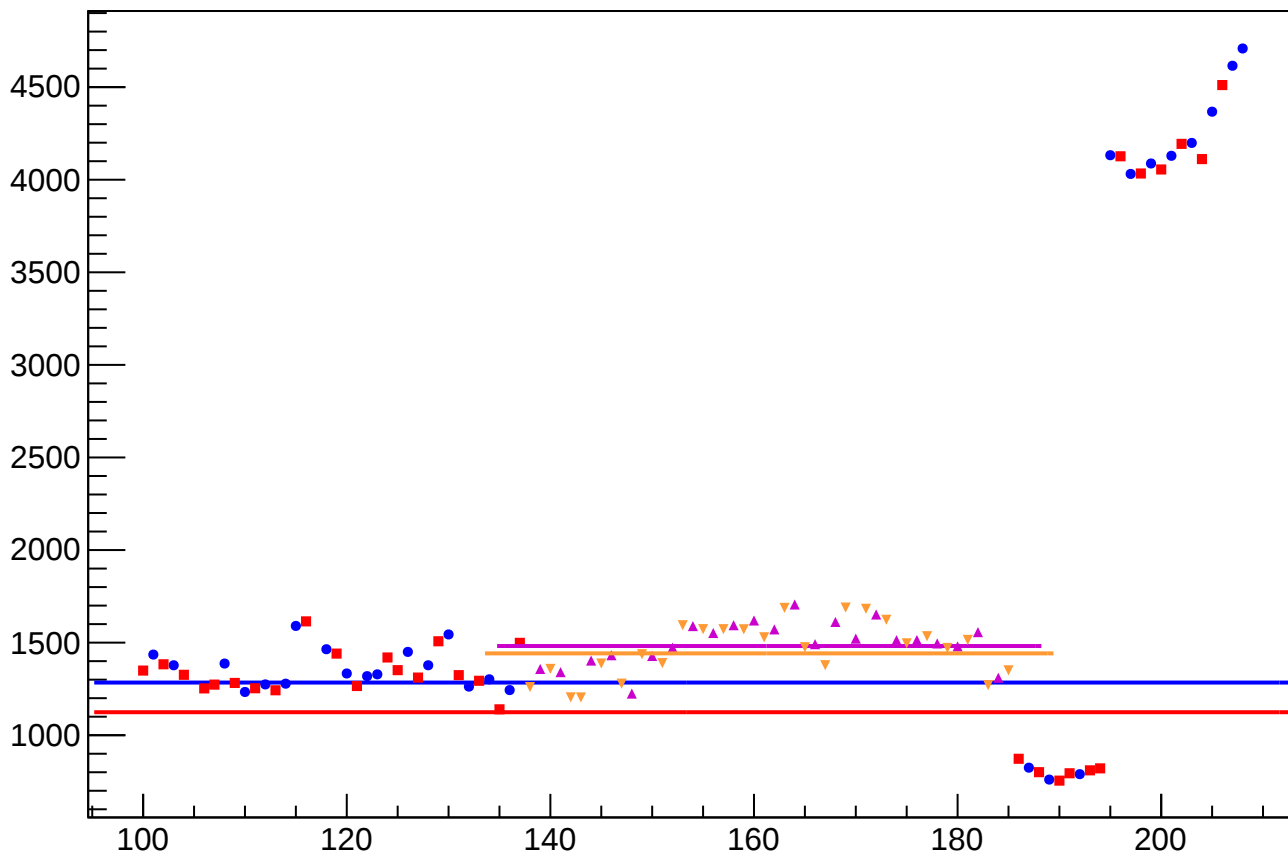
Right: 4.704 $\pm$ 0.251 χ^2/NDF : 1896.8/58

In: 0.990 $\pm$ 0.264 χ^2/NDF : 1625.0/50

Out: 3.083 $\pm$ 0.235 χ^2/NDF : 736.9/55

All: 2.158 $\pm$ 0.176 χ^2/NDF : 2396.9/106

diff_bpm0i07Y_rms vs Slug, Sign Corrected



Right In: 1284.403 $\pm$ 0.278 χ^2 /NDF: 7429595.9/27

Left Out: 1441.951 $\pm$ 0.239 χ^2 /NDF: 370617.4/24

Right Out: 1124.219 $\pm$ 0.231 χ^2 /NDF: 6282895.8/30

Left In: 1481.695 $\pm$ 0.253 χ^2 /NDF: 208470.6/22

Left: 1460.716 $\pm$ 0.174 χ^2 /NDF: 592125.7/47

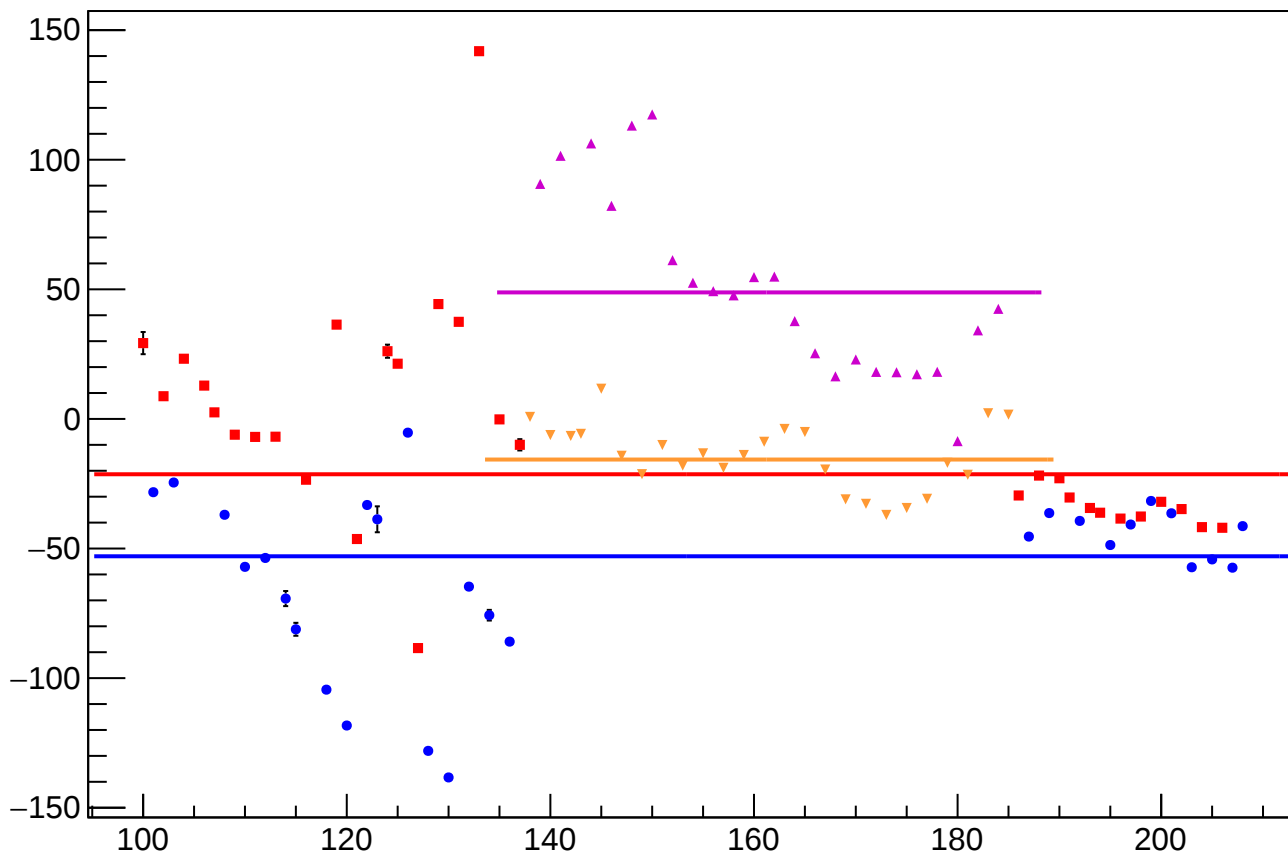
Right: 1189.902 $\pm$ 0.178 χ^2 /NDF: 13908911.0/58

In: 1392.224 $\pm$ 0.187 χ^2 /NDF: 7914084.8/50

Out: 1277.866 $\pm$ 0.166 χ^2 /NDF: 7564892.2/55

All: 1328.390 $\pm$ 0.124 χ^2 /NDF: 15687843.8/100

diff_bpm1i02X_mean vs Slug, Sign Corrected



Right In: -52.990 ± 0.194 χ^2/NDF : 17268.5/27

Left Out: -15.666 ± 0.212 χ^2/NDF : 3518.1/24

Right Out: -21.345 ± 0.190 χ^2/NDF : 30467.9/30

Left In: 48.812 ± 0.220 χ^2/NDF : 25260.8/22

Left: 15.324 ± 0.152 χ^2/NDF : 73443.2/47

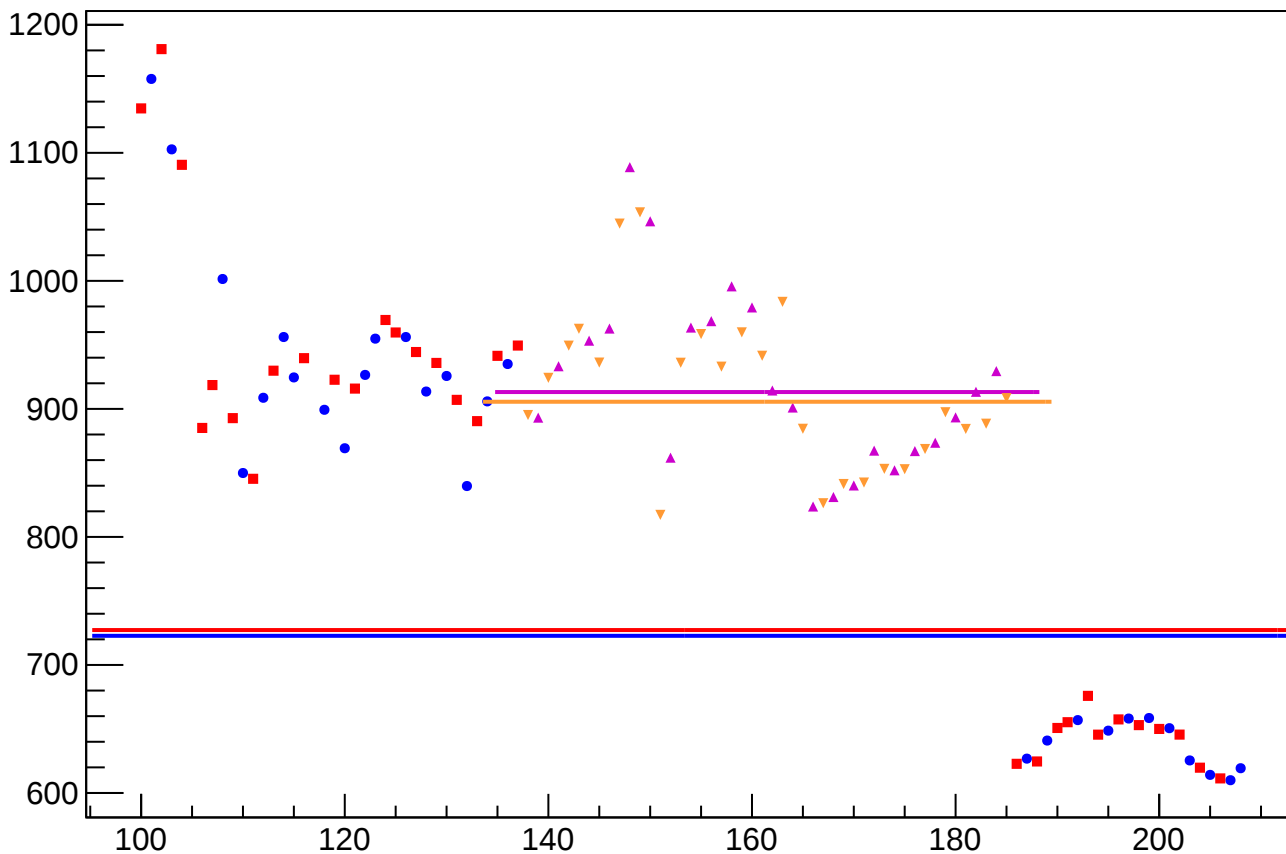
Right: -36.892 ± 0.136 χ^2/NDF : 61329.1/58

In: -8.534 ± 0.145 χ^2/NDF : 163288.8/50

Out: -18.805 ± 0.141 χ^2/NDF : 34384.4/55

All: -13.808 ± 0.101 χ^2/NDF : 200238.6/106

diff_bpm1i02X_rms vs Slug, Sign Corrected



Right In: 722.764 ± 0.137 χ^2/NDF : 1089869.9/27

Left Out: 905.578 ± 0.150 χ^2/NDF : 162073.5/24

Right Out: 727.261 ± 0.135 χ^2/NDF : 1121796.0/30

Left In: 913.165 ± 0.155 χ^2/NDF : 174438.8/22

Left: 909.225 ± 0.108 χ^2/NDF : 337749.0/47

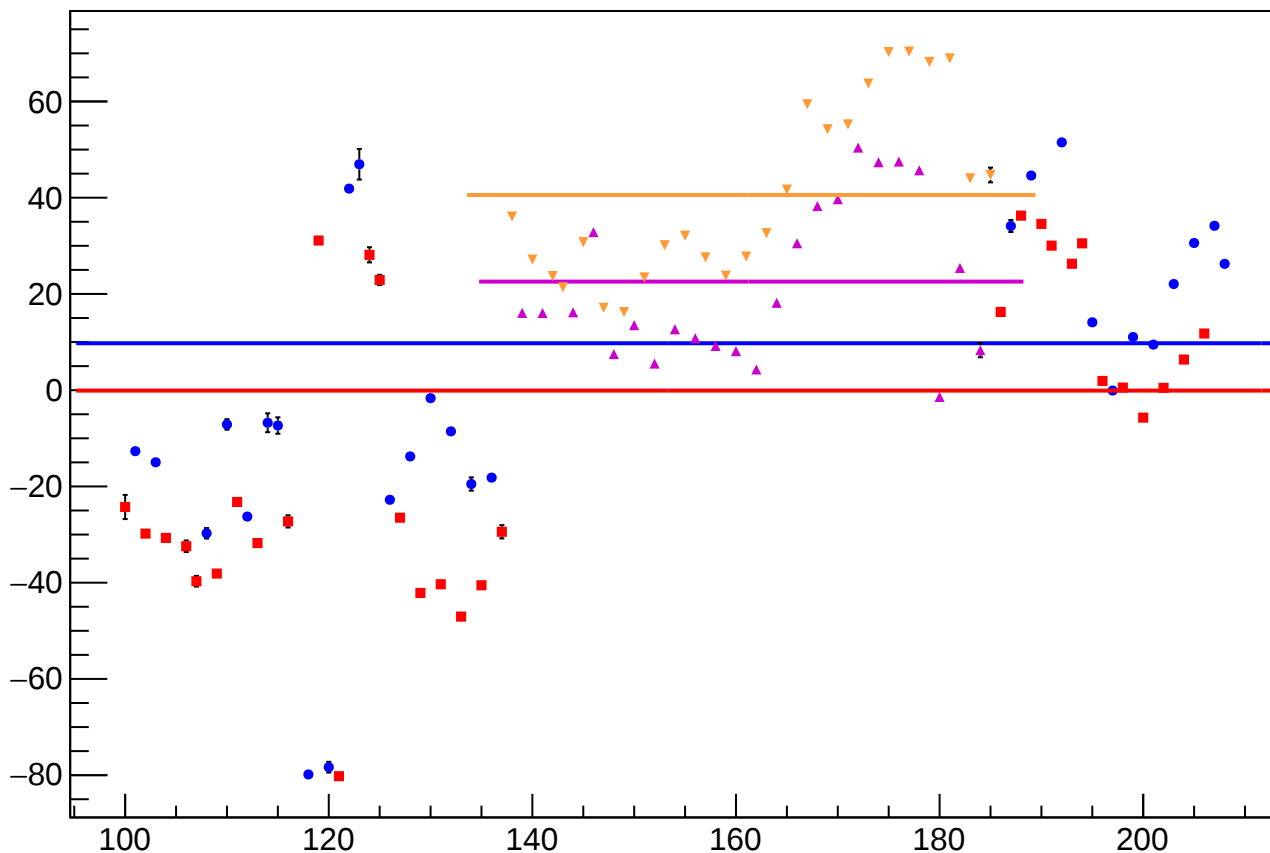
Right: 725.052 ± 0.096 χ^2/NDF : 2212214.8/58

In: 805.909 ± 0.103 χ^2/NDF : 2109143.3/50

Out: 807.010 ± 0.100 χ^2/NDF : 2069620.5/55

All: 806.474 ± 0.072 χ^2/NDF : 4178822.6/106

diff_bpm1i02Y_mean vs Slug, Sign Corrected



Right In: 9.756 ± 0.142 χ^2/NDF : 41698.2/27

Left Out: 40.573 ± 0.168 χ^2/NDF : 12079.0/24

Right Out: -0.083 ± 0.139 χ^2/NDF : 41749.8/30

Left In: 22.565 ± 0.175 χ^2/NDF : 8167.7/22

Left: 31.959 ± 0.121 χ^2/NDF : 25752.7/47

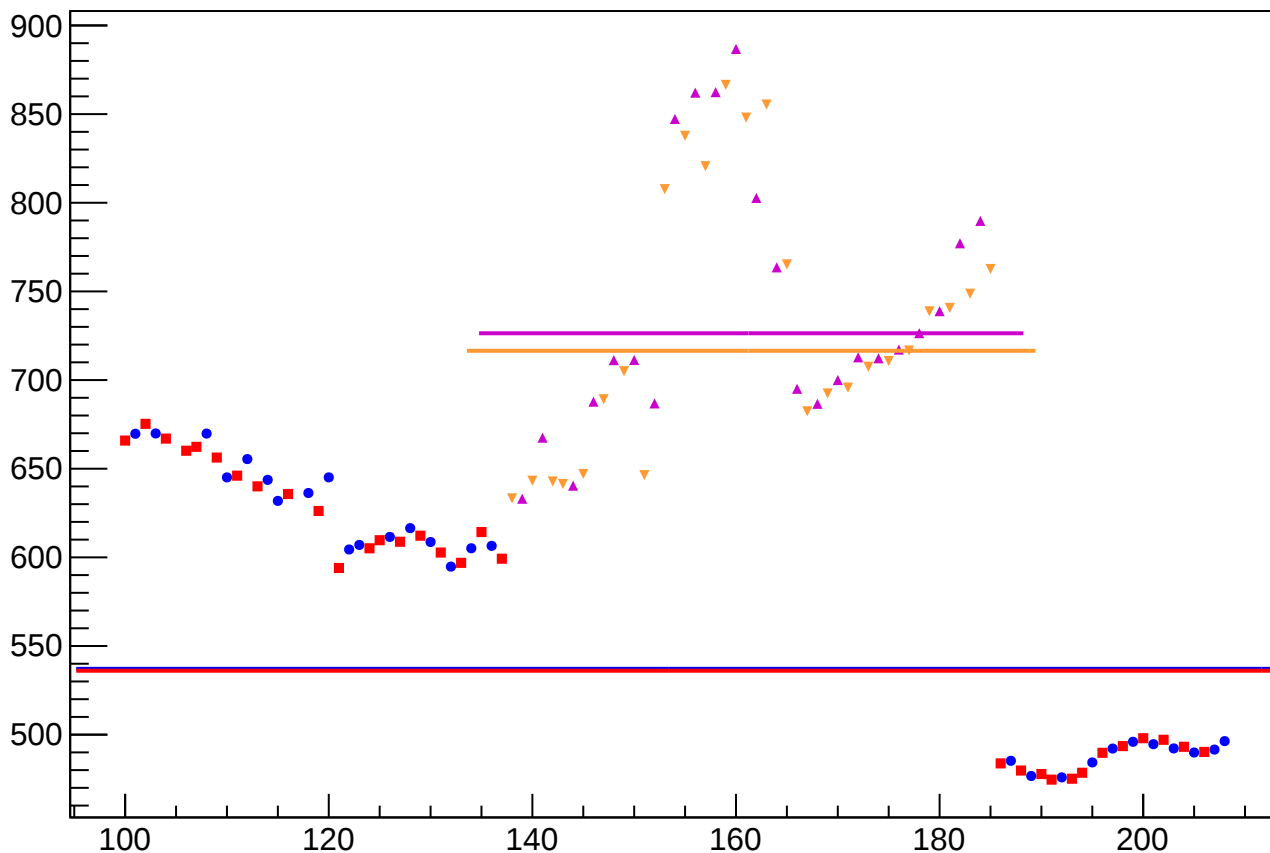
Right: 4.714 ± 0.099 χ^2/NDF : 85899.1/58

In: 14.843 ± 0.110 χ^2/NDF : 53085.7/50

Out: 16.423 ± 0.107 χ^2/NDF : 88682.5/55

All: 15.658 ± 0.077 χ^2/NDF : 141873.8/106

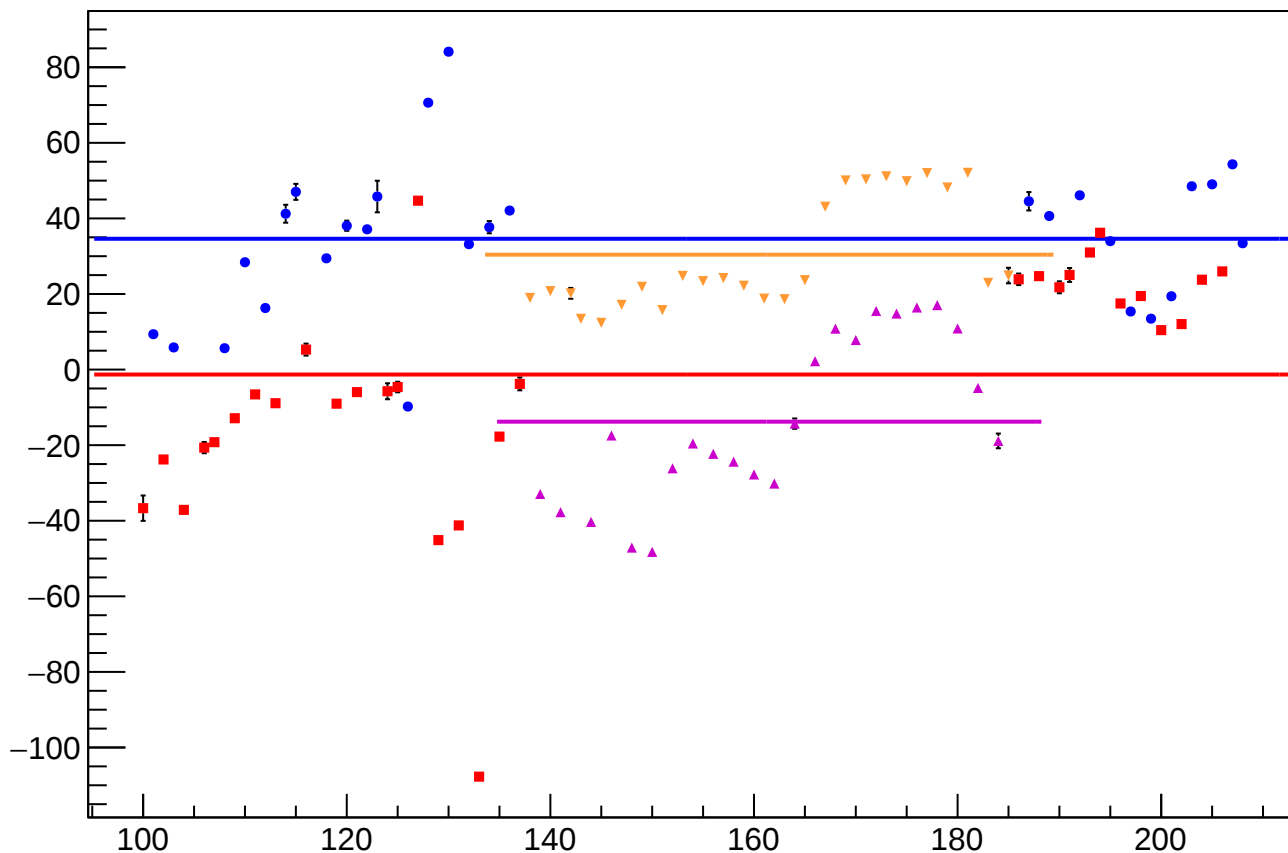
diff_bpm1i02Y_rms vs Slug, Sign Corrected



Right In: 537.119 $\pm$ 0.101 χ^2 /NDF: 469046.2/27
 Left Out: 716.515 $\pm$ 0.119 χ^2 /NDF:342740.2/24
 Right Out: 536.066 $\pm$ 0.098 χ^2 /NDF: 508826.1/30
 Left In: 726.390 $\pm$ 0.124 χ^2 /NDF:289788.8/22

Left: 721.238 $\pm$ 0.086 χ^2 /NDF: 635840.6/47
 Right: 536.580 $\pm$ 0.070 χ^2 /NDF: 977928.5/58
 In: 612.282 $\pm$ 0.078 χ^2 /NDF:2164731.2/50
 Out: 609.325 $\pm$ 0.076 χ^2 /NDF:2224820.8/55
 All: 610.756 $\pm$ 0.054 χ^2 /NDF: 4390291.8/106

diff_bpm1i04X_mean vs Slug, Sign Corrected



Right In: 34.616+/-0.224 χ^2/NDF : 8284.2/27

Left Out: 30.408+/-0.237 χ^2/NDF : 3808.0/24

Right Out: -1.310+/-0.219 χ^2/NDF : 21343.4/30

Left In: -13.787+/-0.246 χ^2/NDF : 7979.7/22

Left: 9.082+/-0.171 χ^2/NDF : 28511.9/47

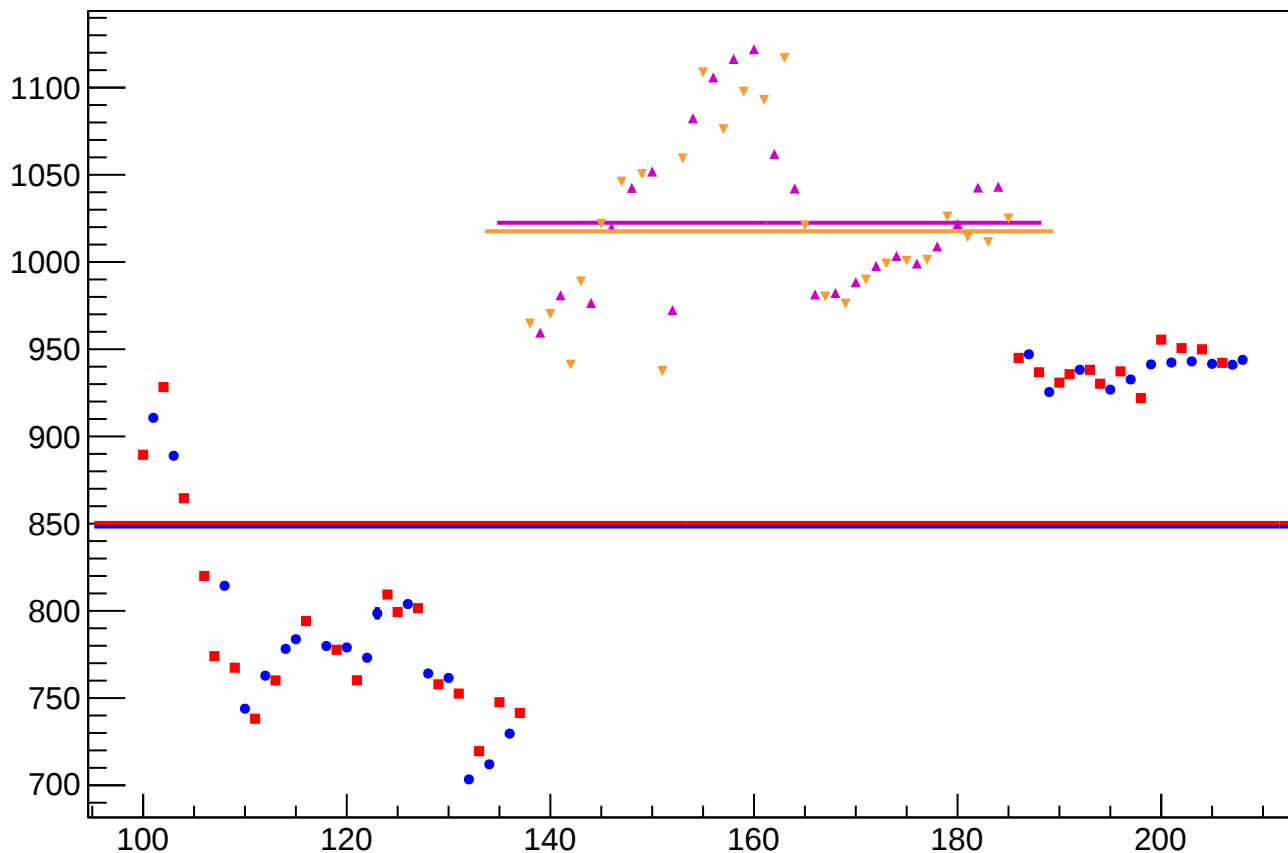
Right: 16.271+/-0.157 χ^2/NDF : 42744.2/58

In: 12.641+/-0.166 χ^2/NDF : 37431.8/50

Out: 13.304+/-0.161 χ^2/NDF : 34777.7/55

All: 12.982+/-0.116 χ^2/NDF : 72217.7/106

diff_bpm1i04X_rms vs Slug, Sign Corrected



Right In: 848.350 $\pm$ 0.159 χ^2 /NDF: 323533.9/27

Left Out: 1017.653 $\pm$ 0.168 χ^2 /NDF:83612.5/24

Right Out: 850.423 $\pm$ 0.155 χ^2 /NDF: 315738.7/30

Left In: 1022.511 $\pm$ 0.174 χ^2 /NDF:69635.5/22

Left: 1019.997 $\pm$ 0.121 χ^2 /NDF: 153652.2/47

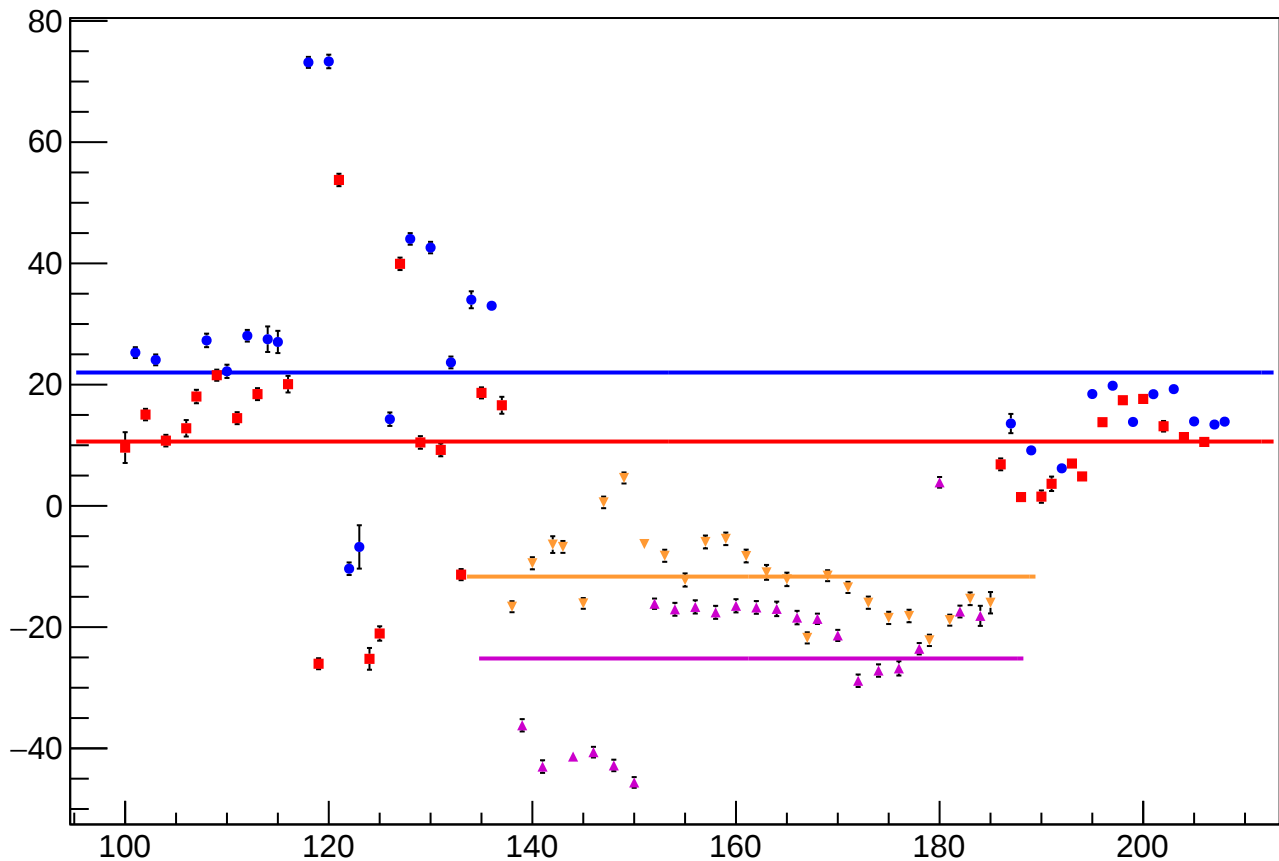
Right: 849.409 $\pm$ 0.111 χ^2 /NDF: 639360.0/58

In: 927.419 $\pm$ 0.117 χ^2 /NDF:941272.2/50

Out: 927.476 $\pm$ 0.114 χ^2 /NDF:934507.4/55

All: 927.449 $\pm$ 0.082 χ^2 /NDF: 1875779.7/106

diff_bpm1i04Y_mean vs Slug, Sign Corrected



Right In: 21.999 ± 0.162 $\chi^2/\text{NDF}: 9420.9/27$

Left Out: -11.664 ± 0.200 $\chi^2/\text{NDF}: 1147.4/24$

Right Out: 10.614 ± 0.162 $\chi^2/\text{NDF}: 7015.9/30$

Left In: -25.174 ± 0.207 $\chi^2/\text{NDF}: 3747.1/22$

Left: -18.184 ± 0.144 $\chi^2/\text{NDF}: 7090.4/47$

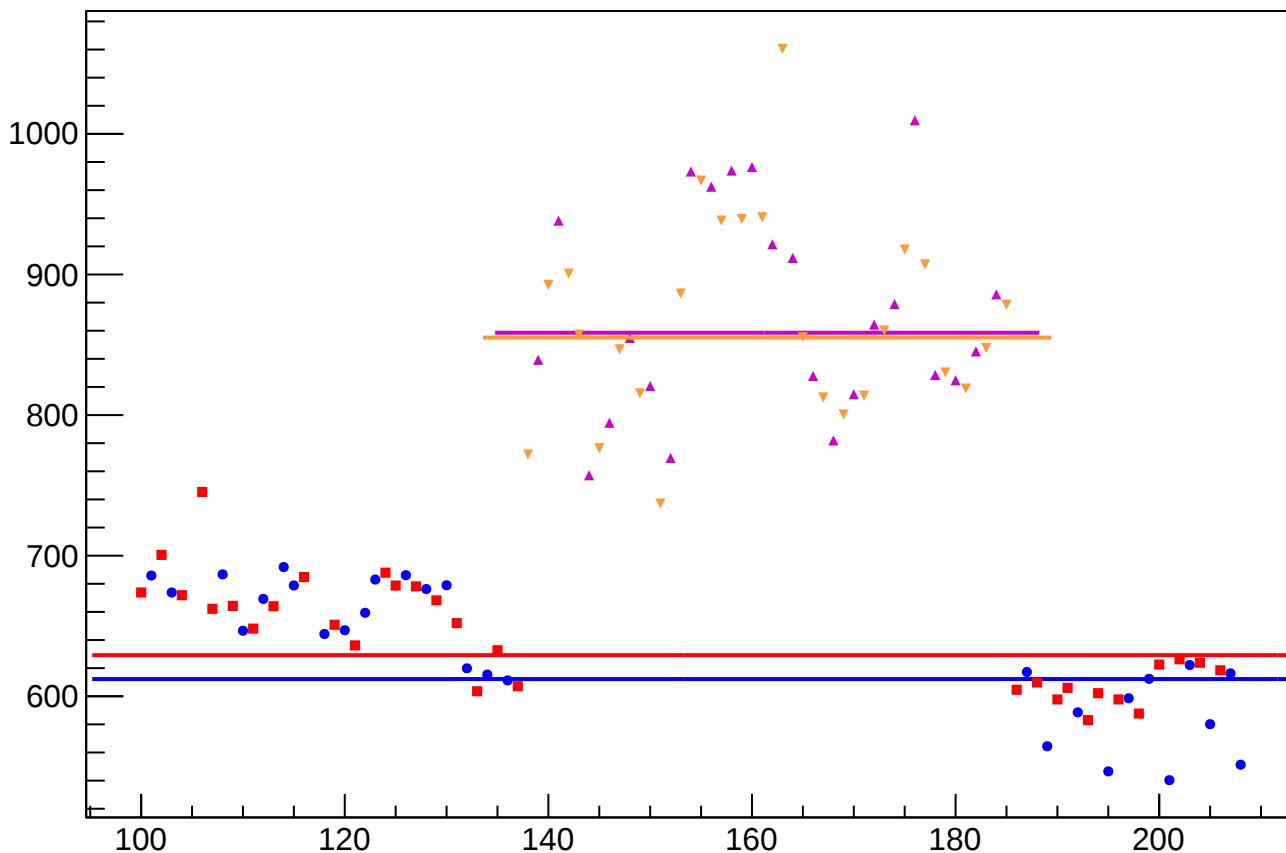
Right: 16.310 ± 0.114 $\chi^2/\text{NDF}: 18911.1/58$

In: 4.149 ± 0.128 $\chi^2/\text{NDF}: 45333.1/50$

Out: 1.810 ± 0.126 $\chi^2/\text{NDF}: 15646.4/55$

All: 2.964 ± 0.090 $\chi^2/\text{NDF}: 61149.7/106$

diff_bpm1i04Y_rms vs Slug, Sign Corrected



Right In: 612.243 $\pm$ 0.114 χ^2/NDF : 163829.9/27

Left Out: 855.131 $\pm$ 0.142 χ^2/NDF :233746.7/24

Right Out: 629.225 $\pm$ 0.114 χ^2/NDF : 90415.4/30

Left In: 858.563 $\pm$ 0.147 χ^2/NDF :239019.8/22

Left: 856.788 $\pm$ 0.102 χ^2/NDF : 473049.9/47

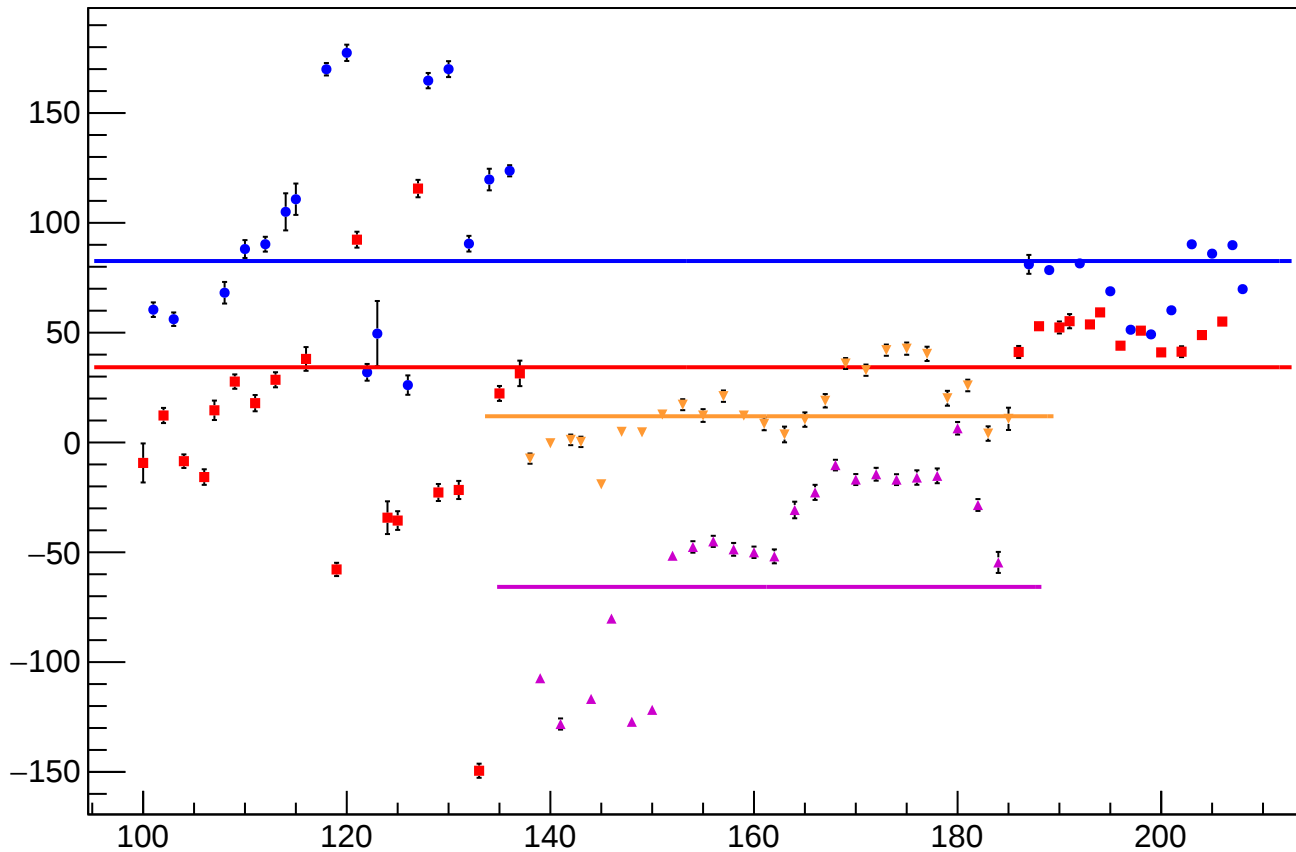
Right: 620.729 $\pm$ 0.081 χ^2/NDF : 265254.7/58

In: 705.451 $\pm$ 0.090 χ^2/NDF :2156858.7/50

Out: 718.499 $\pm$ 0.089 χ^2/NDF :1863108.0/55

All: 712.060 $\pm$ 0.063 χ^2/NDF : 4030565.8/106

diff_bpm1i06X_mean vs Slug, Sign Corrected



Right In: 82.613 ± 0.493 $\chi^2/\text{NDF}: 4444.7/27$

Left Out: 11.938 ± 0.505 $\chi^2/\text{NDF}: 976.6/24$

Right Out: 34.254 ± 0.493 $\chi^2/\text{NDF}: 6965.1/30$

Left In: -65.752 ± 0.518 $\chi^2/\text{NDF}: 7335.8/22$

Left: -25.968 ± 0.362 $\chi^2/\text{NDF}: 19845.5/47$

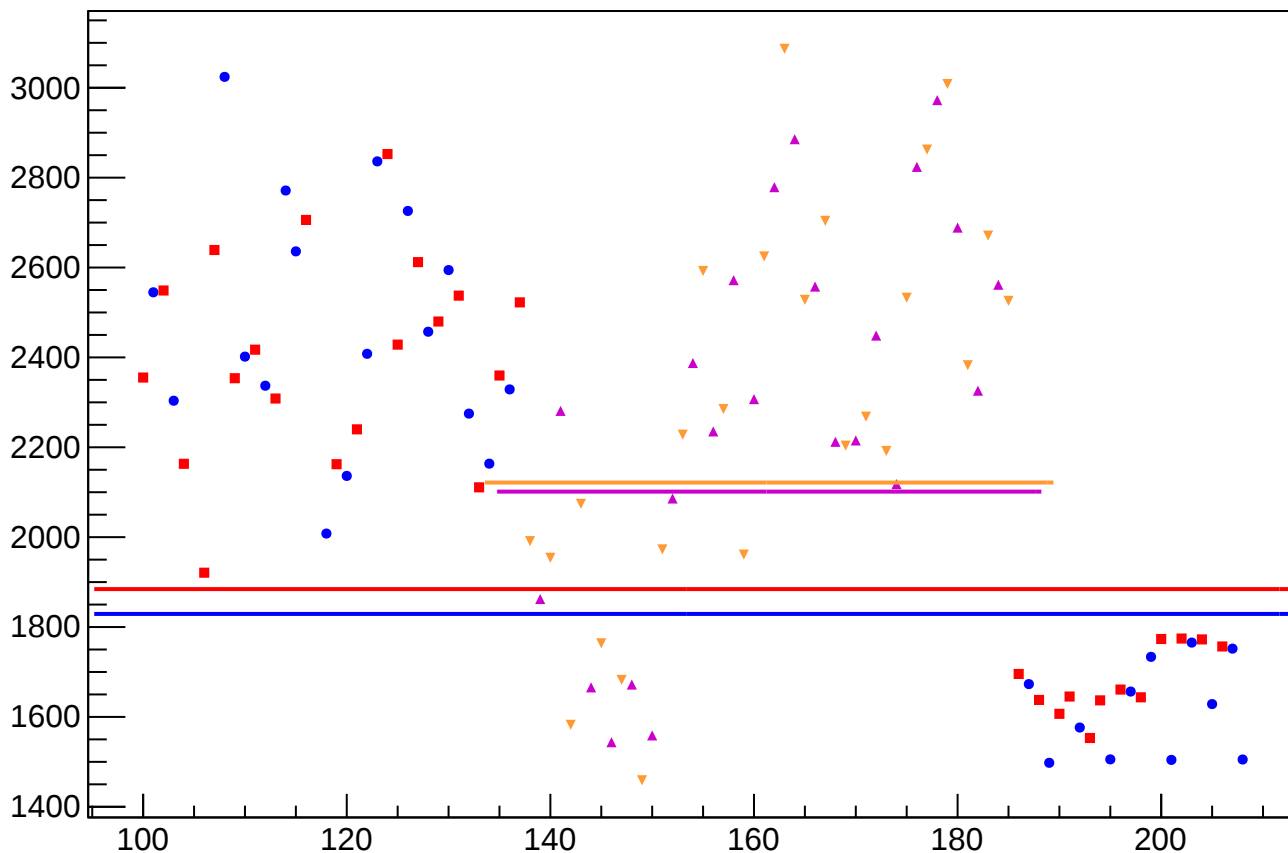
Right: 58.407 ± 0.348 $\chi^2/\text{NDF}: 16223.7/58$

In: 12.032 ± 0.357 $\chi^2/\text{NDF}: 54842.9/50$

Out: 23.381 ± 0.353 $\chi^2/\text{NDF}: 8941.9/55$

All: 17.776 ± 0.251 $\chi^2/\text{NDF}: 64296.1/106$

diff_bpm1i06X_rms vs Slug, Sign Corrected



Right In: 1829.172 ± 0.349 $\chi^2/\text{NDF}: 1167044.9/27$

Left Out: 2121.567 ± 0.357 $\chi^2/\text{NDF}: 1387847.6/24$

Right Out: 1884.444 ± 0.348 $\chi^2/\text{NDF}: 927778.0/30$

Left In: 2101.325 ± 0.366 $\chi^2/\text{NDF}: 1360518.3/22$

Left: 2111.691 ± 0.256 $\chi^2/\text{NDF}: 2749931.8/47$

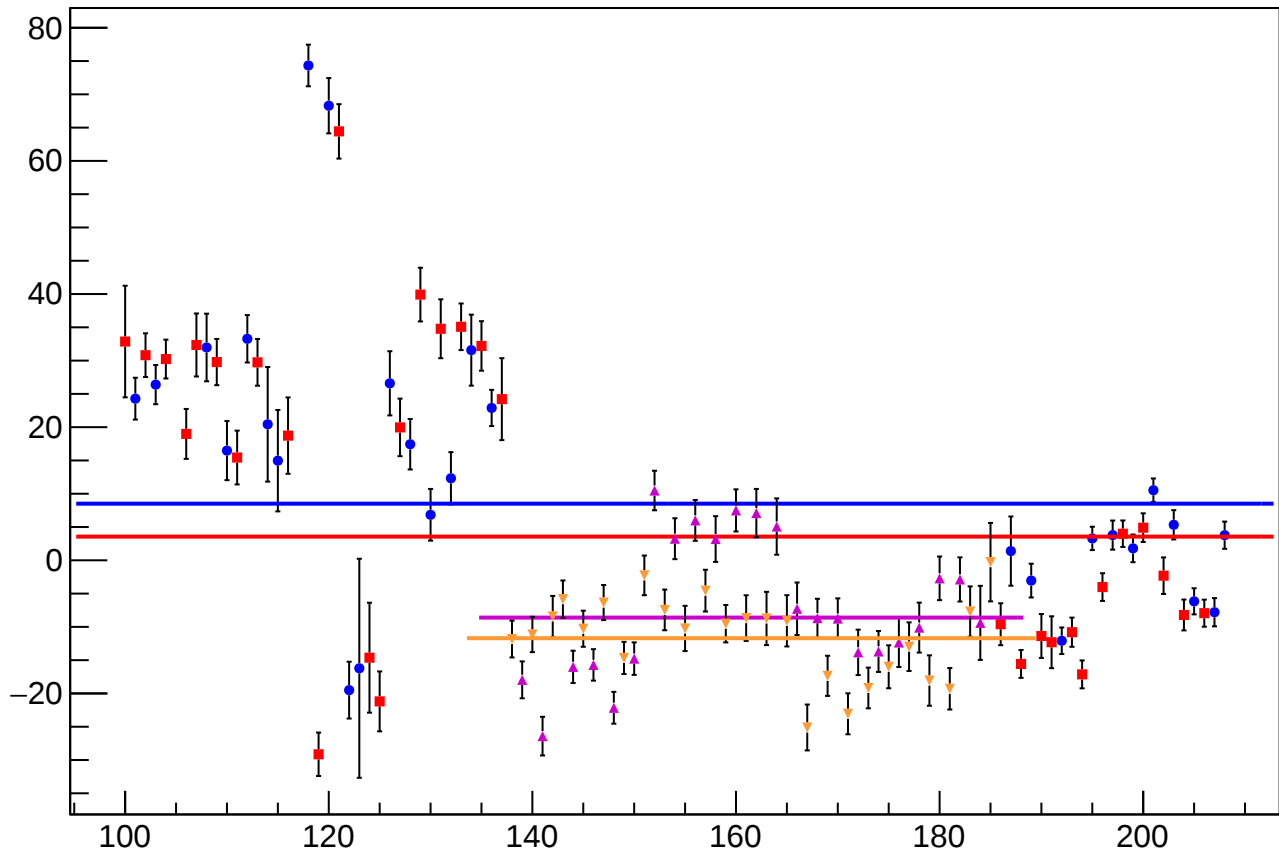
Right: 1856.839 ± 0.246 $\chi^2/\text{NDF}: 2107400.1/58$

In: 1958.642 ± 0.252 $\chi^2/\text{NDF}: 2817358.6/50$

Out: 1999.977 ± 0.249 $\chi^2/\text{NDF}: 2541450.0/55$

All: 1979.562 ± 0.177 $\chi^2/\text{NDF}: 5372374.2/10$

diff_bpm1i06Y_mean vs Slug, Sign Corrected



Right In: 8.508+/-0.534 χ^2/NDF : 1177.9/27

Left Out: -11.700+/-0.625 χ^2/NDF : 85.0/24

Right Out: 3.562+/-0.547 χ^2/NDF : 1355.7/30

Left In: -8.606+/-0.642 χ^2/NDF : 264.2/22

Left: -10.193+/-0.448 χ^2/NDF : 361.1/47

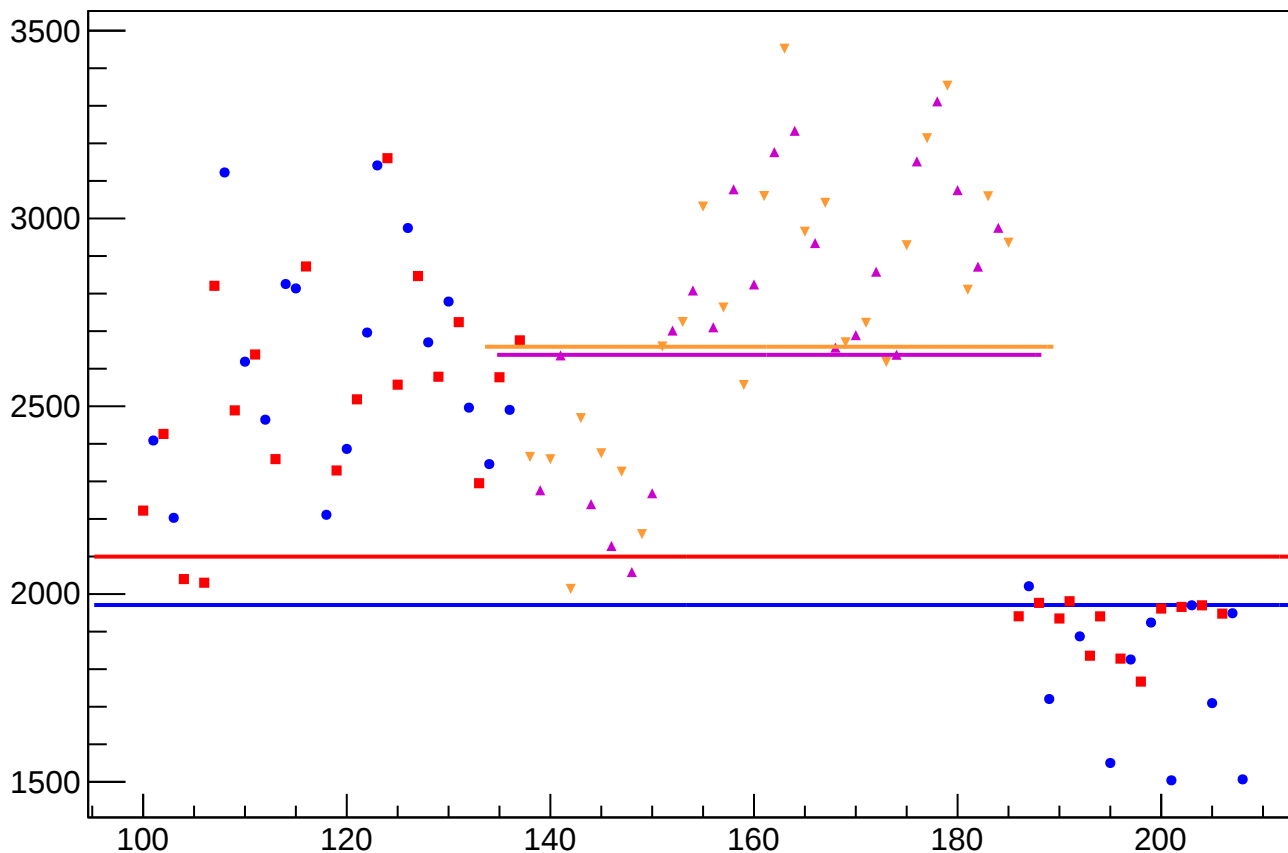
Right: 6.095+/-0.382 χ^2/NDF : 2575.4/58

In: 1.511+/-0.410 χ^2/NDF : 1862.3/50

Out: -3.052+/-0.412 χ^2/NDF : 1778.1/55

All: -0.763+/-0.291 χ^2/NDF : 3702.0/106

diff_bpm1i06Y_rms vs Slug, Sign Corrected



Right In: 1970.839 $\pm$ 0.377 χ^2 /NDF: 1165720.8/27

Left Out: 2658.486 $\pm$ 0.442 χ^2 /NDF: 618133.8/24

Right Out: 2099.695 $\pm$ 0.387 χ^2 /NDF: 624873.8/30

Left In: 2636.885 $\pm$ 0.454 χ^2 /NDF: 652894.5/22

Left: 2647.967 $\pm$ 0.317 χ^2 /NDF: 1272190.1/47

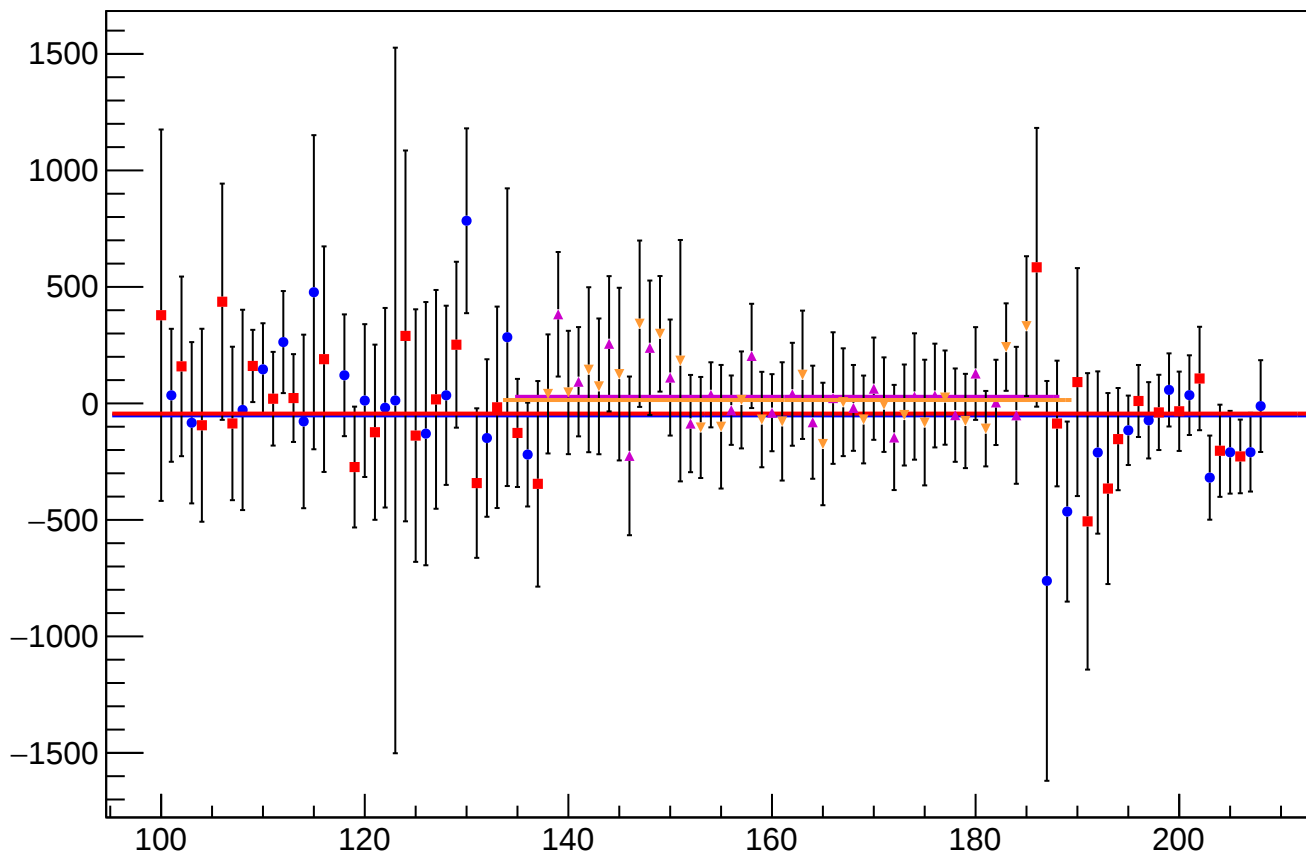
Right: 2033.710 $\pm$ 0.270 χ^2 /NDF: 1847445.2/58

In: 2243.157 $\pm$ 0.290 χ^2 /NDF: 3091413.5/50

Out: 2341.830 $\pm$ 0.291 χ^2 /NDF: 2147677.9/55

All: 2292.343 $\pm$ 0.206 χ^2 /NDF: 5296706.7/10

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -51.361 ± 46.836 $\chi^2/\text{NDF}: 16.6/27$

Left Out: 14.520 ± 47.528 $\chi^2/\text{NDF}: 7.8/24$

Right Out: -43.726 ± 46.900 $\chi^2/\text{NDF}: 12.1/30$

Left In: 28.310 ± 44.638 $\chi^2/\text{NDF}: 6.3/22$

Left: 21.847 ± 32.538 $\chi^2/\text{NDF}: 14.1/47$

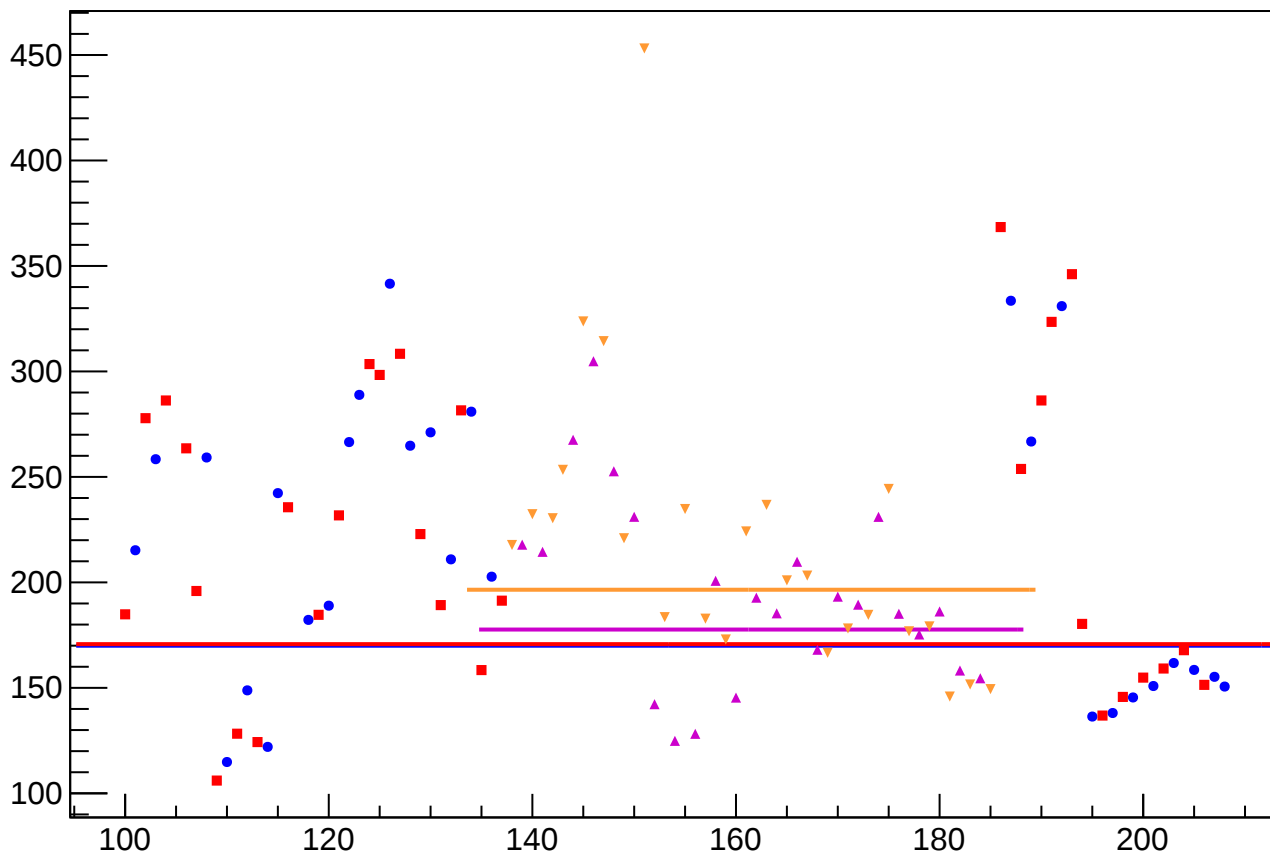
Right: -47.549 ± 33.140 $\chi^2/\text{NDF}: 28.7/58$

In: -9.613 ± 32.313 $\chi^2/\text{NDF}: 24.4/50$

Out: -14.991 ± 33.383 $\chi^2/\text{NDF}: 20.6/55$

All: -12.214 ± 23.218 $\chi^2/\text{NDF}: 45.0/106$

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 169.983 $\pm$ 0.033 χ^2 /NDF: 2114957.1/27

Left Out: 196.514 $\pm$ 0.034 χ^2 /NDF:1789504.4/24

Right Out: 170.726 $\pm$ 0.033 χ^2 /NDF: 2773704.9/30

Left In: 177.643 $\pm$ 0.032 χ^2 /NDF:1630664.5/22

Left: 186.488 $\pm$ 0.023 χ^2 /NDF: 3587689.7/47

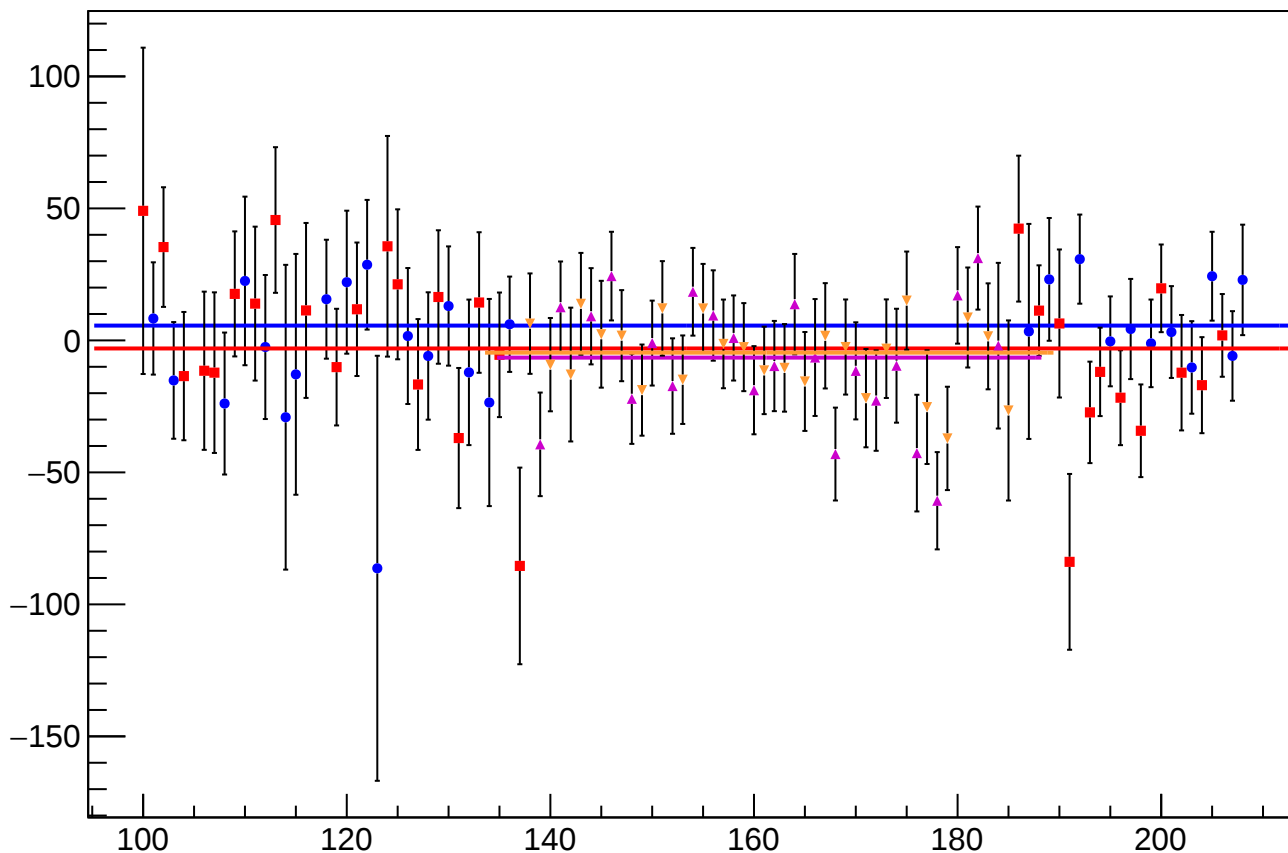
Right: 170.354 $\pm$ 0.023 χ^2 /NDF: 4888913.7/58

In: 173.997 $\pm$ 0.023 χ^2 /NDF:3773659.5/50

Out: 183.448 $\pm$ 0.024 χ^2 /NDF:4861524.3/55

All: 178.569 $\pm$ 0.016 χ^2 /NDF: 8717953.5/106

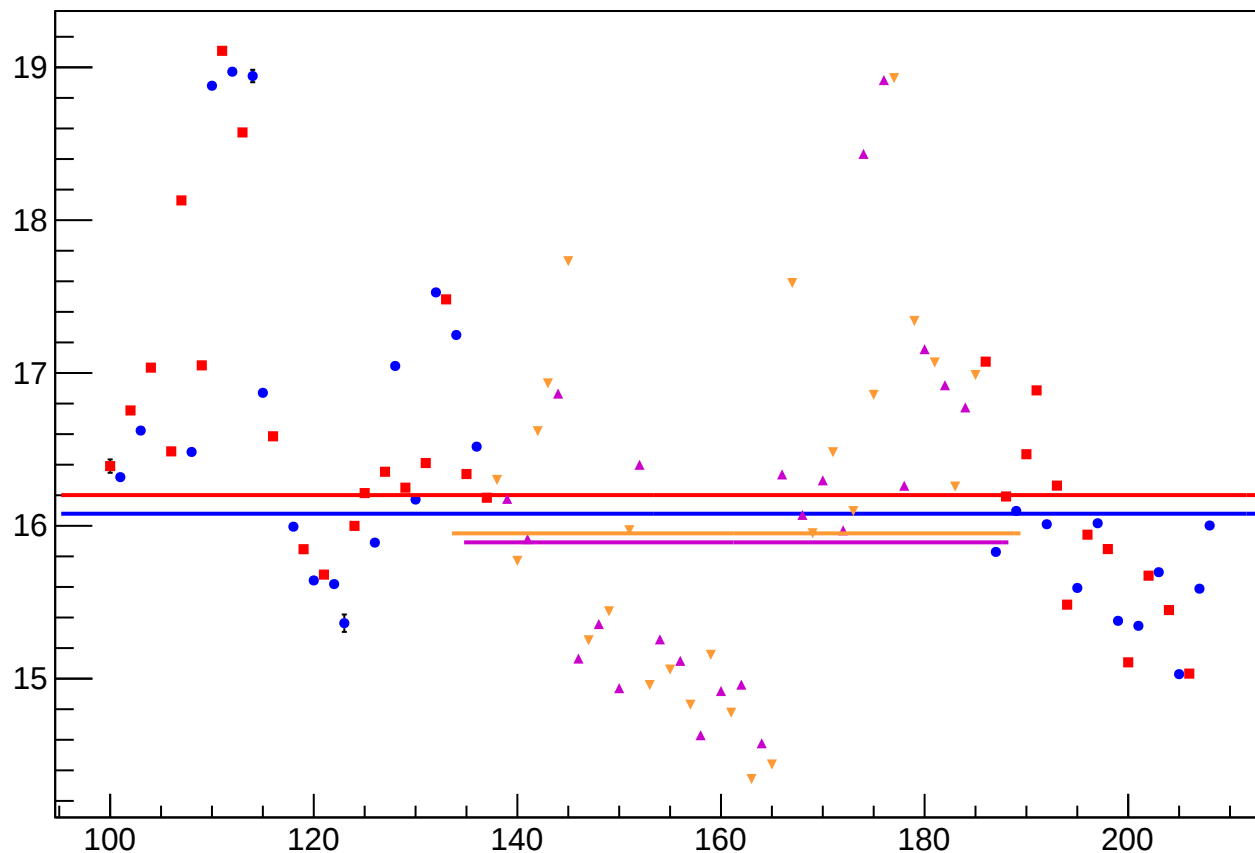
asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 5.606 ± 4.234 $\chi^2/\text{NDF}: 13.4/27$
 Left Out: -4.646 ± 3.728 $\chi^2/\text{NDF}: 12.1/24$
 Right Out: -3.059 ± 4.168 $\chi^2/\text{NDF}: 36.5/30$
 Left In: -6.526 ± 3.828 $\chi^2/\text{NDF}: 36.4/22$

Left: -5.561 ± 2.670 $\chi^2/\text{NDF}: 48.6/47$
 Right: 1.206 ± 2.970 $\chi^2/\text{NDF}: 52.0/58$
 In: -1.070 ± 2.839 $\chi^2/\text{NDF}: 54.3/50$
 Out: -3.941 ± 2.779 $\chi^2/\text{NDF}: 48.6/55$
 All: -2.537 ± 1.986 $\chi^2/\text{NDF}: 103.4/106$

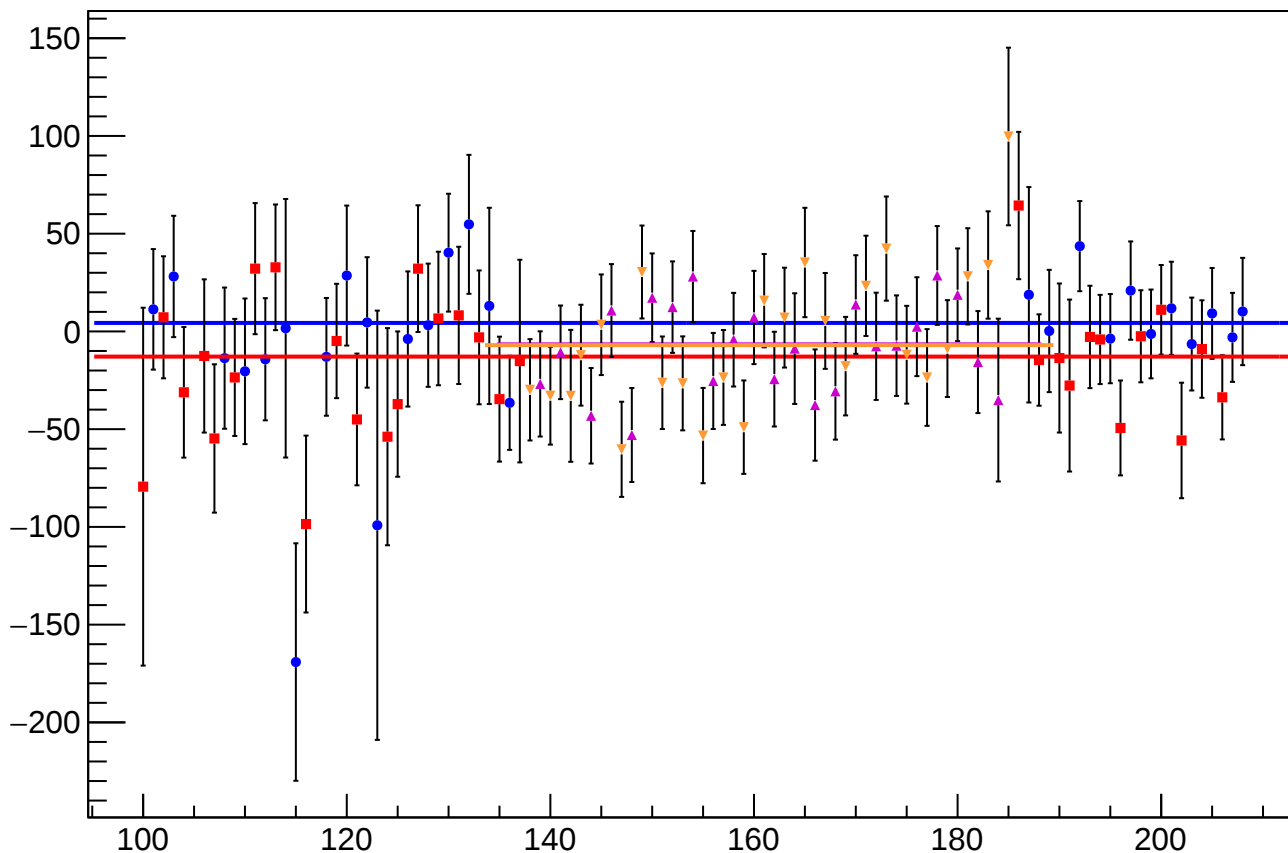
asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 16.079 $\pm$ 0.003 χ^2/NDF : 77866.7/27
 Left Out: 15.951 $\pm$ 0.003 χ^2/NDF :173458.5/24
 Right Out: 16.201 $\pm$ 0.003 χ^2/NDF : 87945.0/30
 Left In: 15.892 $\pm$ 0.003 χ^2/NDF :147093.3/22

Left: 15.922 $\pm$ 0.002 χ^2/NDF : 320794.5/47
 Right: 16.141 $\pm$ 0.002 χ^2/NDF : 166652.6/58
 In: 15.976 $\pm$ 0.002 χ^2/NDF :227114.9/50
 Out: 16.062 $\pm$ 0.002 χ^2/NDF :265411.6/55
 All: 16.020 $\pm$ 0.001 χ^2/NDF : 493460.4/106

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 4.352 ± 5.667 $\chi^2/\text{NDF}: 22.0/27$

Left Out: -7.017 ± 5.121 $\chi^2/\text{NDF}: 37.4/24$

Right Out: -12.876 ± 5.573 $\chi^2/\text{NDF}: 26.3/30$

Left In: -6.611 ± 5.251 $\chi^2/\text{NDF}: 19.1/22$

Left: -6.820 ± 3.666 $\chi^2/\text{NDF}: 56.6/47$

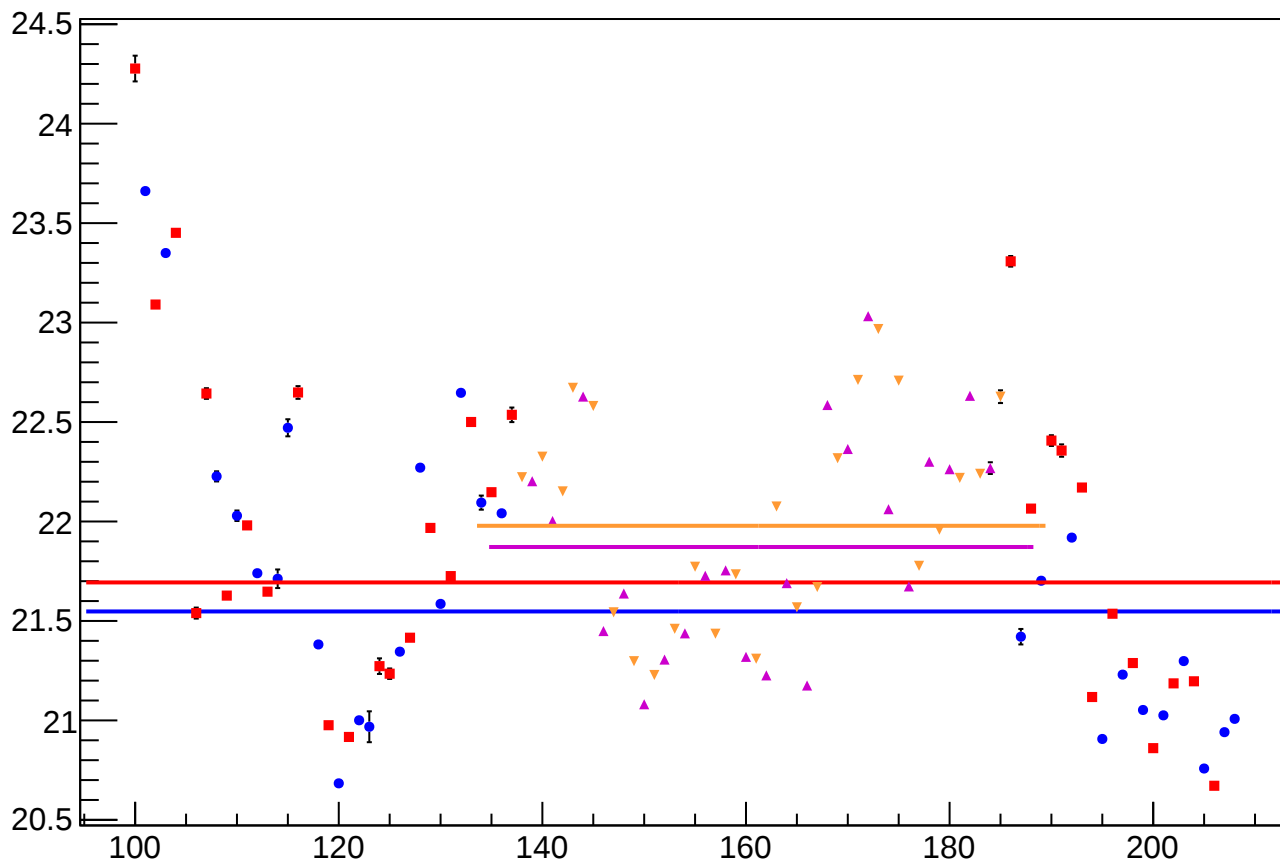
Right: -4.407 ± 3.973 $\chi^2/\text{NDF}: 53.1/58$

In: -1.546 ± 3.852 $\chi^2/\text{NDF}: 43.2/50$

Out: -9.700 ± 3.771 $\chi^2/\text{NDF}: 64.4/55$

All: -5.710 ± 2.695 $\chi^2/\text{NDF}: 109.8/106$

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 21.548 $\pm$ 0.004 χ^2 /NDF: 32776.2/27

Left Out: 21.978 $\pm$ 0.004 χ^2 /NDF:19430.2/24

Right Out: 21.694 $\pm$ 0.004 χ^2 /NDF: 34948.6/30

Left In: 21.872 $\pm$ 0.004 χ^2 /NDF:20524.9/22

Left: 21.926 $\pm$ 0.003 χ^2 /NDF: 40377.5/47

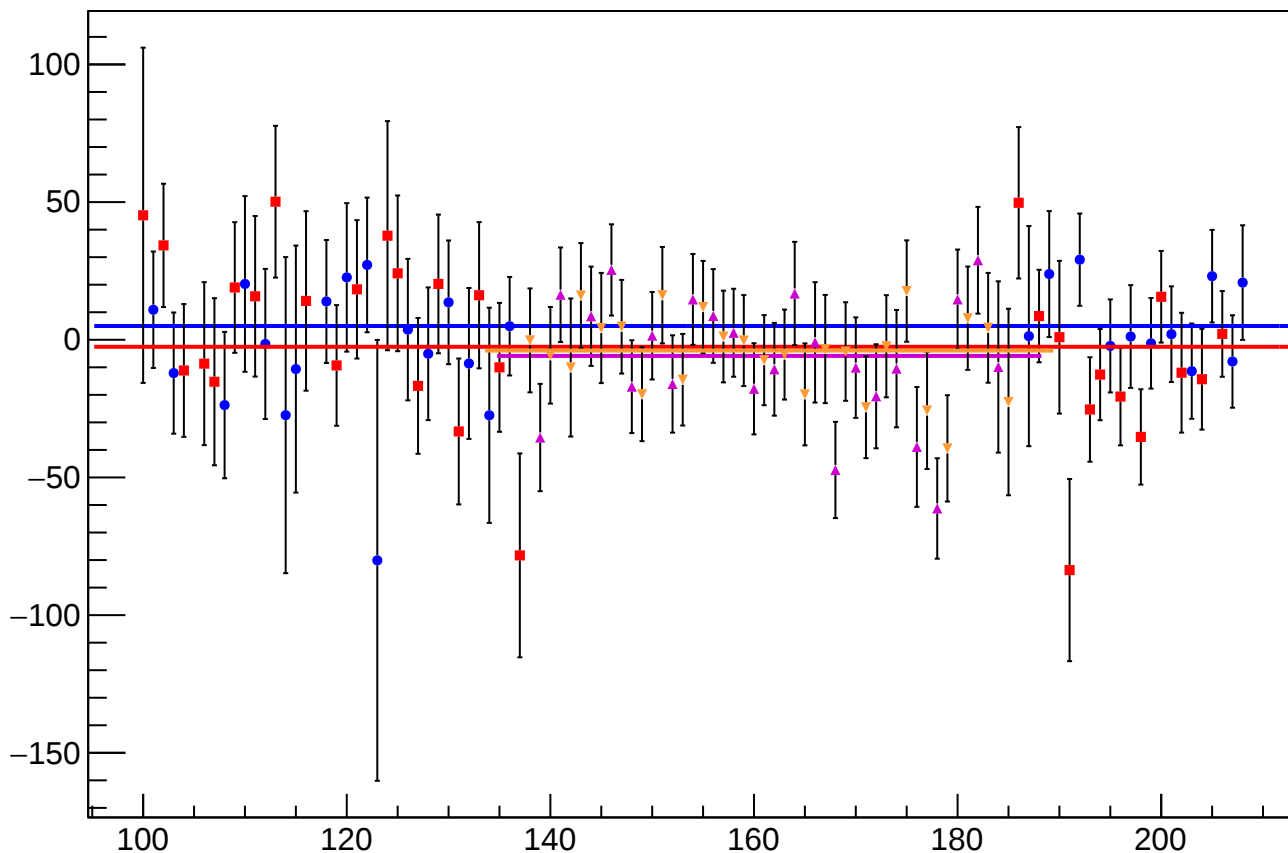
Right: 21.622 $\pm$ 0.003 χ^2 /NDF: 68398.7/58

In: 21.722 $\pm$ 0.003 χ^2 /NDF:56819.7/50

Out: 21.848 $\pm$ 0.003 χ^2 /NDF:57210.2/55

All: 21.786 $\pm$ 0.002 χ^2 /NDF: 115121.4/106

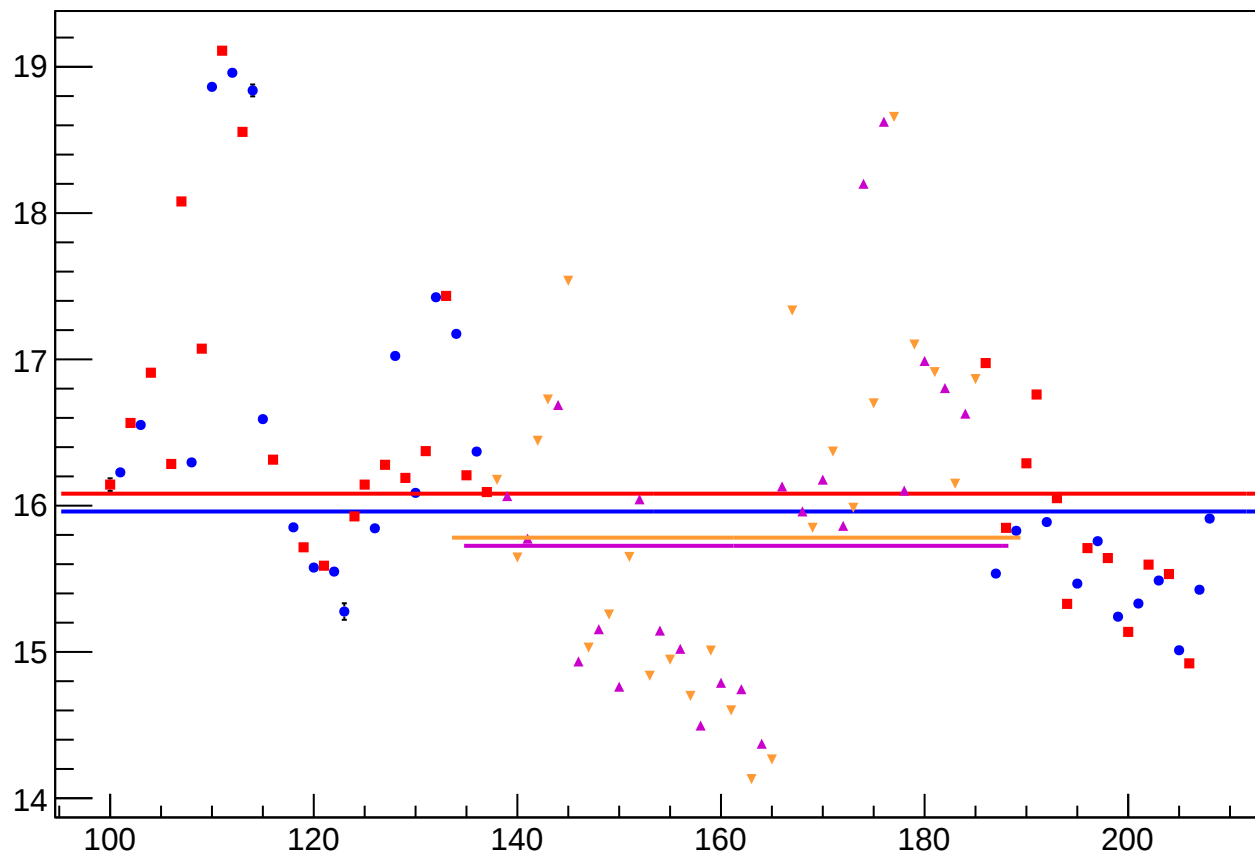
asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 5.002 ± 4.203 $\chi^2/\text{NDF}: 12.8/27$
 Left Out: -3.927 ± 3.688 $\chi^2/\text{NDF}: 14.0/24$
 Right Out: -2.546 ± 4.138 $\chi^2/\text{NDF}: 37.1/30$
 Left In: -5.861 ± 3.787 $\chi^2/\text{NDF}: 36.2/22$

Left: -4.869 ± 2.642 $\chi^2/\text{NDF}: 50.3/47$
 Right: 1.169 ± 2.949 $\chi^2/\text{NDF}: 51.5/58$
 In: -0.994 ± 2.813 $\chi^2/\text{NDF}: 52.6/50$
 Out: -3.316 ± 2.753 $\chi^2/\text{NDF}: 51.1/55$
 All: -2.180 ± 1.968 $\chi^2/\text{NDF}: 104.1/106$

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 15.960 $\pm$ 0.003 χ^2 /NDF: 80741.8/27

Left Out: 15.781 $\pm$ 0.003 χ^2 /NDF:172894.3/24

Right Out: 16.082 $\pm$ 0.003 χ^2 /NDF: 90471.8/30

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

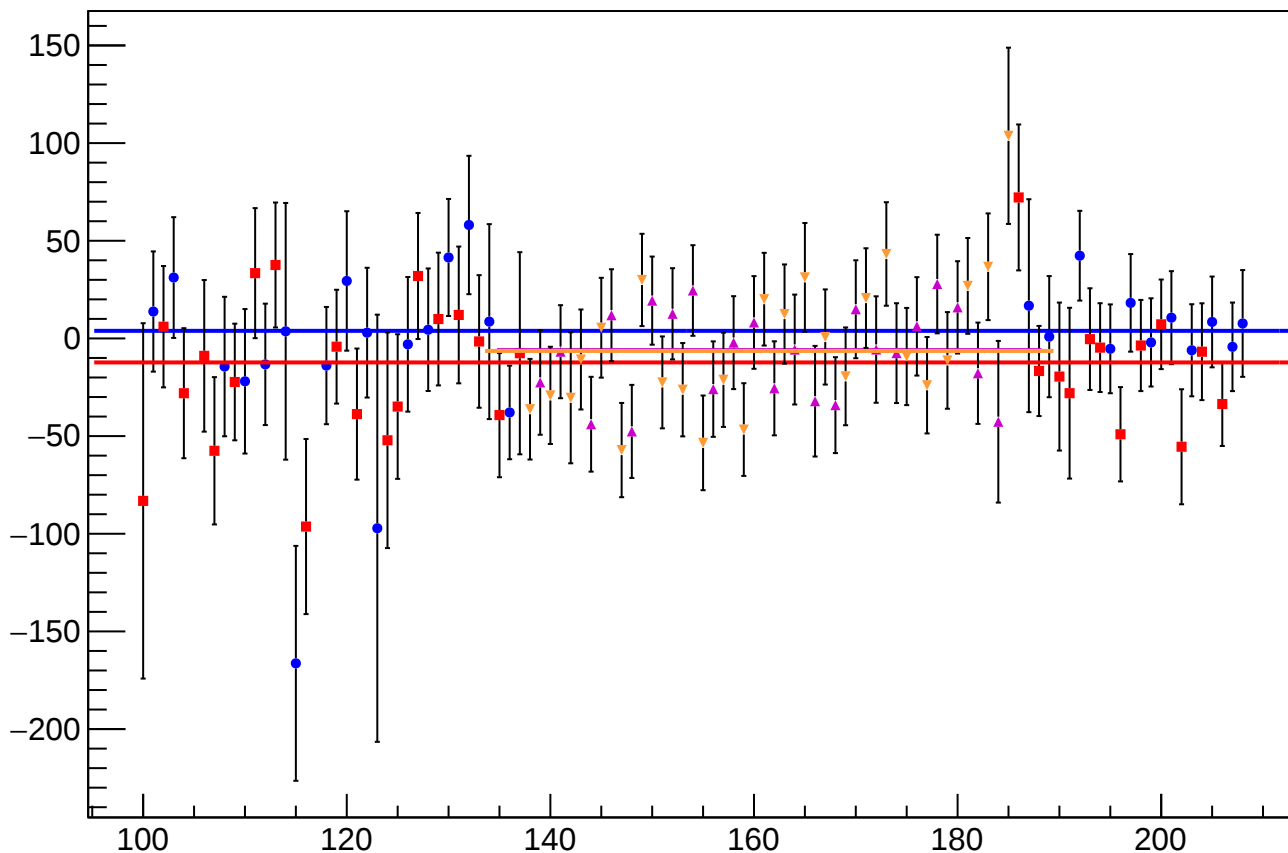
Right: 16.022 $\pm$ 0.002 χ^2 /NDF: 172067.6/58

In: 15.831 $\pm$ 0.002 χ^2 /NDF:230013.0/50

Out: 15.914 $\pm$ 0.002 χ^2 /NDF:269249.4/55

All: 15.873 $\pm$ 0.001 χ^2 /NDF: 500169.7/106

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 3.887 ± 5.641 $\chi^2/\text{NDF}: 22.5/27$

Left Out: -6.404 ± 5.091 $\chi^2/\text{NDF}: 37.4/24$

Right Out: -12.285 ± 5.543 $\chi^2/\text{NDF}: 27.8/30$

Left In: -5.978 ± 5.222 $\chi^2/\text{NDF}: 18.5/22$

Left: -6.196 ± 3.646 $\chi^2/\text{NDF}: 55.9/47$

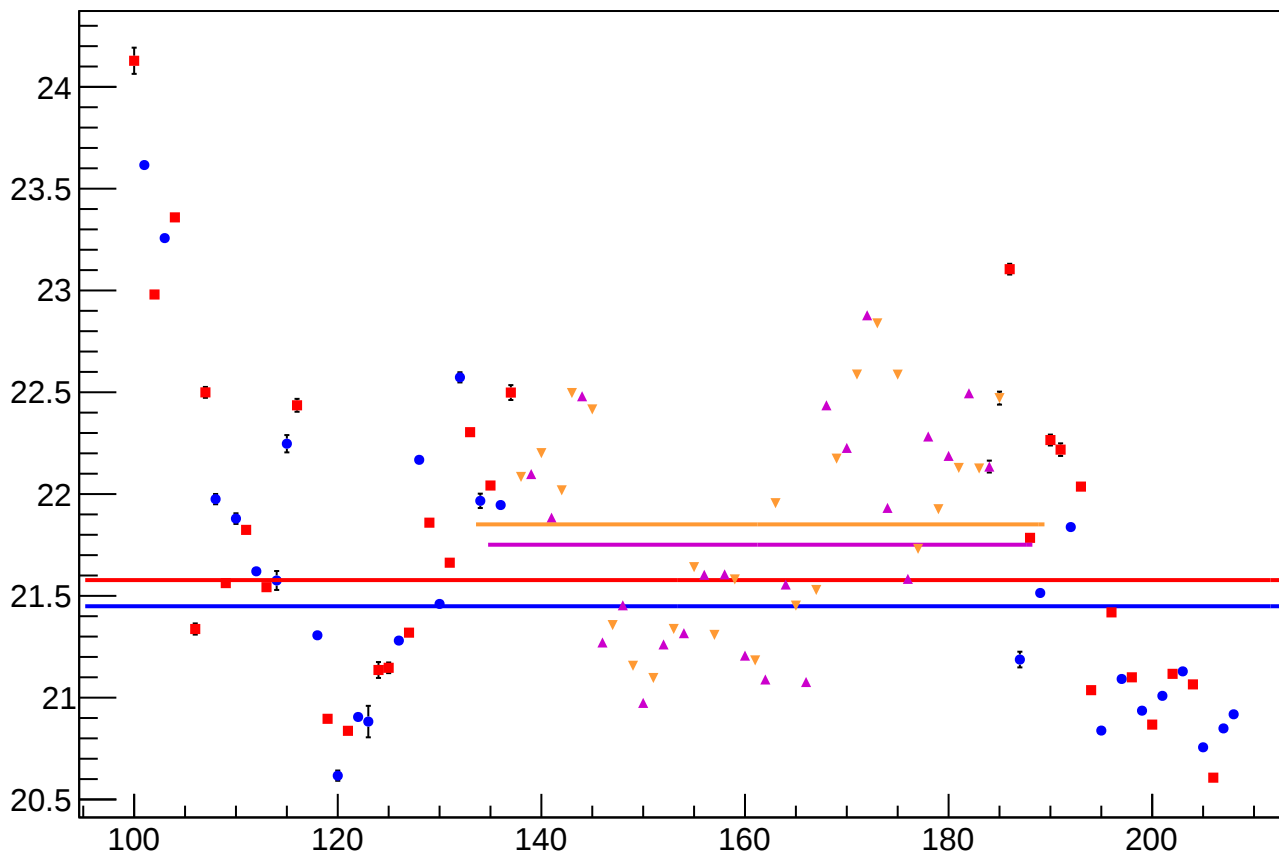
Right: -4.341 ± 3.954 $\chi^2/\text{NDF}: 54.5/58$

In: -1.425 ± 3.832 $\chi^2/\text{NDF}: 42.7/50$

Out: -9.095 ± 3.750 $\chi^2/\text{NDF}: 65.8/55$

All: -5.344 ± 2.680 $\chi^2/\text{NDF}: 110.6/106$

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 21.449 $\pm$ 0.004 χ^2 /NDF: 32293.9/27

Left Out: 21.851 $\pm$ 0.004 χ^2 /NDF: 19631.8/24

Right Out: 21.577 $\pm$ 0.004 χ^2 /NDF: 32833.7/30

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

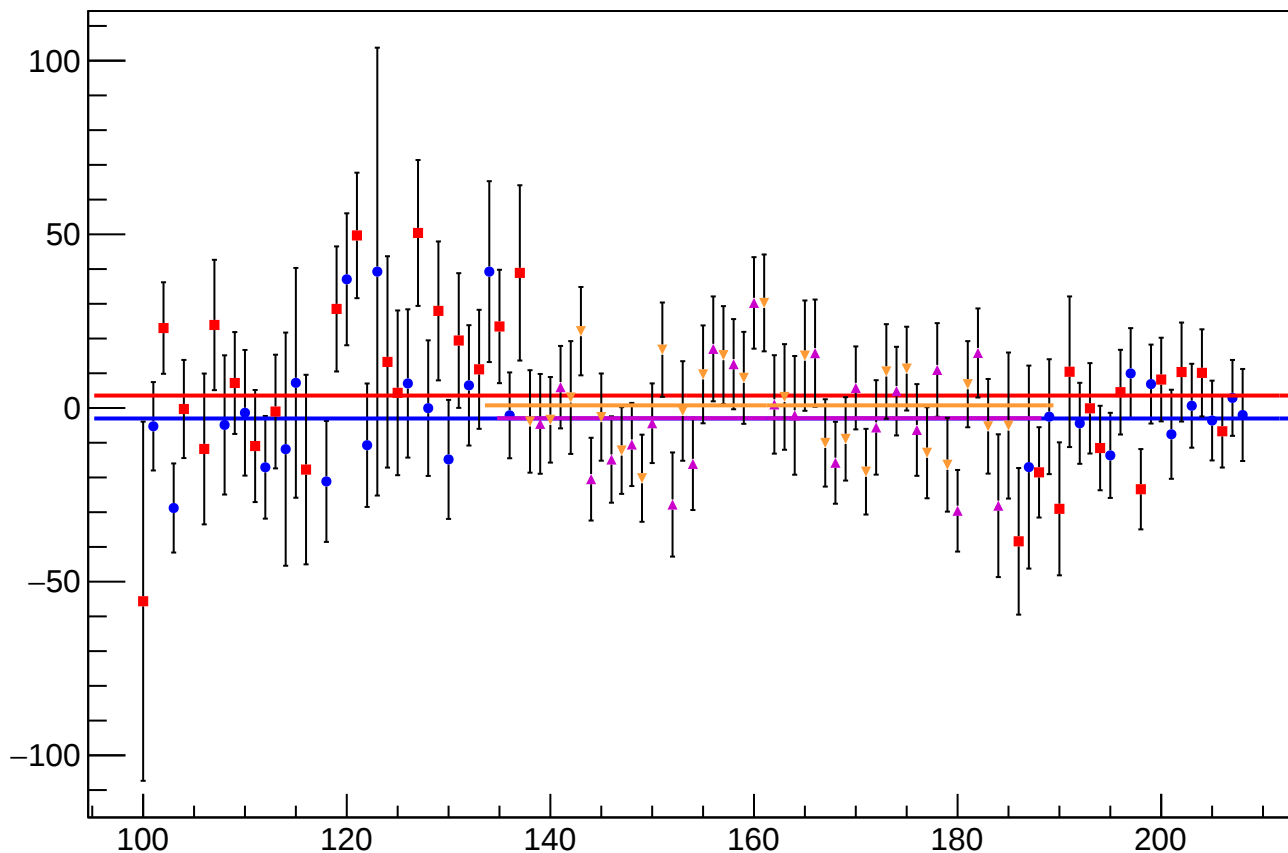
Right: 21.514 $\pm$ 0.003 χ^2 /NDF: 65655.0/58

In: 21.612 $\pm$ 0.003 χ^2 /NDF: 55900.4/50

Out: 21.726 $\pm$ 0.003 χ^2 /NDF: 55110.1/55

All: 21.670 $\pm$ 0.002 χ^2 /NDF: 111917.0/106

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -3.020 ± 2.883 $\chi^2/\text{NDF}: 18.2/27$

Left Out: 0.759 ± 2.698 $\chi^2/\text{NDF}: 23.8/24$

Right Out: 3.581 ± 2.862 $\chi^2/\text{NDF}: 44.6/30$

Left In: -2.944 ± 2.757 $\chi^2/\text{NDF}: 30.9/22$

Left: -1.053 ± 1.929 $\chi^2/\text{NDF}: 55.7/47$

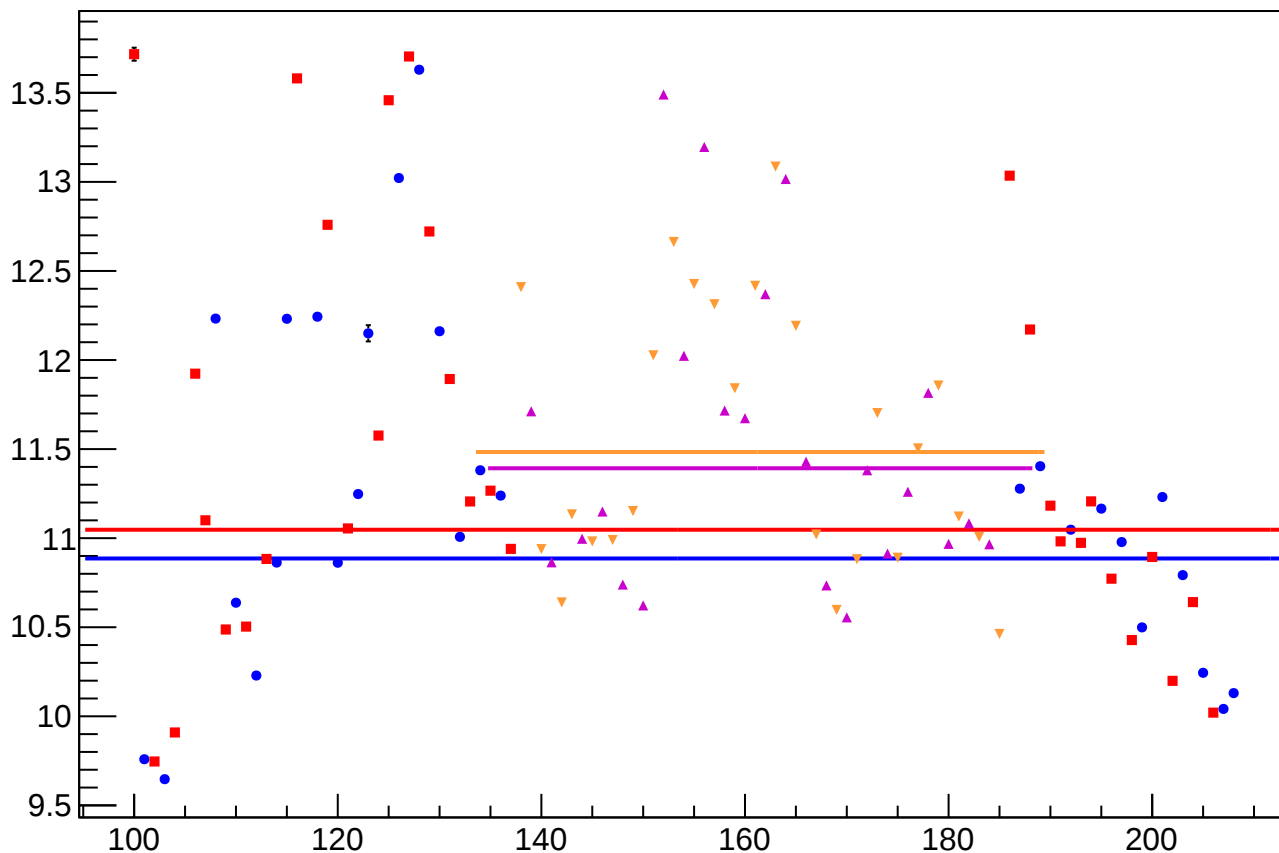
Right: 0.305 ± 2.031 $\chi^2/\text{NDF}: 65.5/58$

In: -2.980 ± 1.993 $\chi^2/\text{NDF}: 49.2/50$

Out: 2.087 ± 1.963 $\chi^2/\text{NDF}: 68.9/55$

All: -0.409 ± 1.399 $\chi^2/\text{NDF}: 121.4/106$

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 10.886 $\pm$ 0.002 χ^2 /NDF: 170288.1/27

Left Out: 11.484 $\pm$ 0.002 χ^2 /NDF:129805.4/24

Right Out: 11.047 $\pm$ 0.002 χ^2 /NDF: 222255.2/30

Left In: 11.392 $\pm$ 0.002 χ^2 /NDF:150493.3/22

Left: 11.439 $\pm$ 0.001 χ^2 /NDF: 281419.2/47

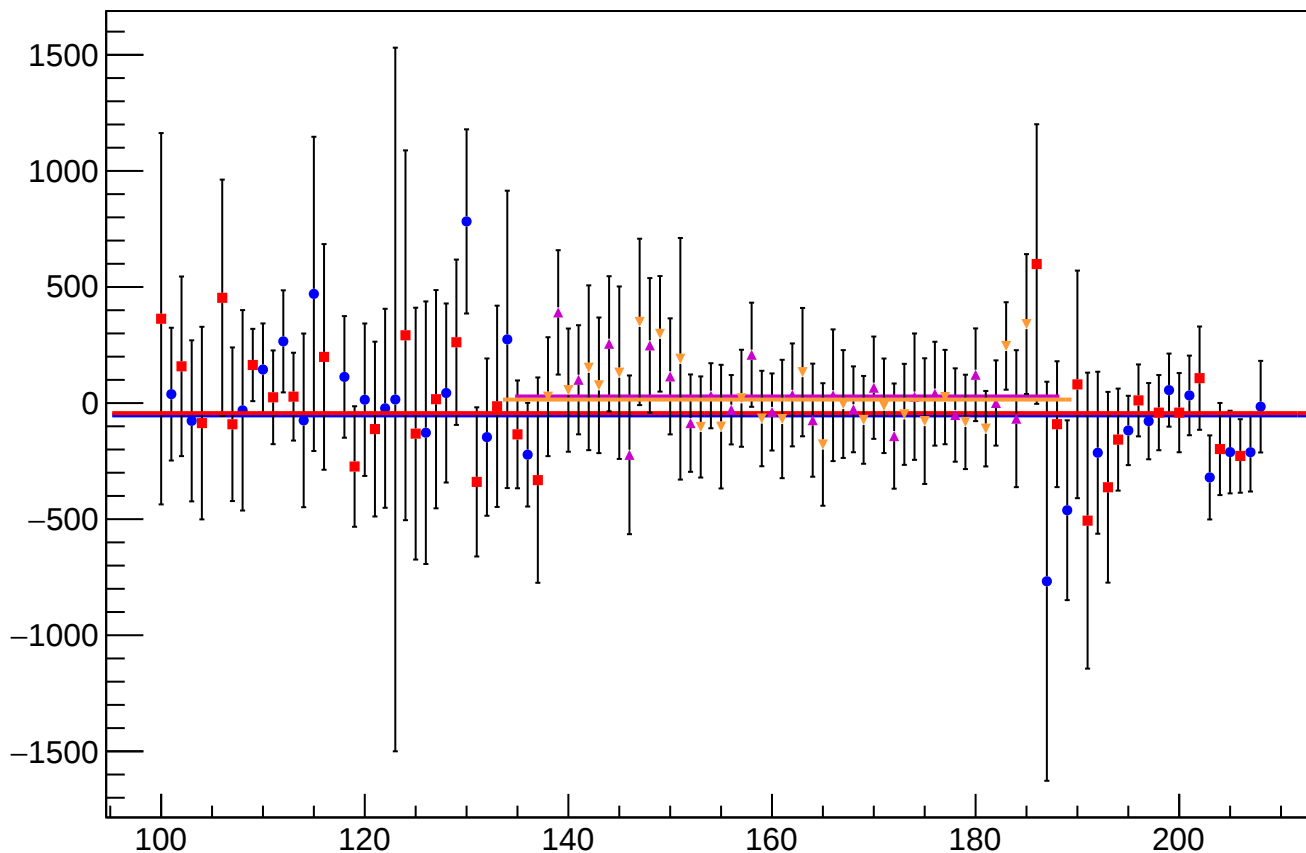
Right: 10.967 $\pm$ 0.001 χ^2 /NDF: 395698.1/58

In: 11.150 $\pm$ 0.001 χ^2 /NDF:353004.4/50

Out: 11.278 $\pm$ 0.001 χ^2 /NDF:376675.1/55

All: 11.215 $\pm$ 0.001 χ^2 /NDF: 733859.9/106

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs Slug, Sign Corrected



Right In: -53.087 ± 46.954 $\chi^2/\text{NDF}: 16.5/27$

Left Out: 15.130 ± 47.705 $\chi^2/\text{NDF}: 8.0/24$

Right Out: -43.242 ± 47.026 $\chi^2/\text{NDF}: 12.2/30$

Left In: 28.500 ± 44.797 $\chi^2/\text{NDF}: 6.4/22$

Left: 22.235 ± 32.656 $\chi^2/\text{NDF}: 14.4/47$

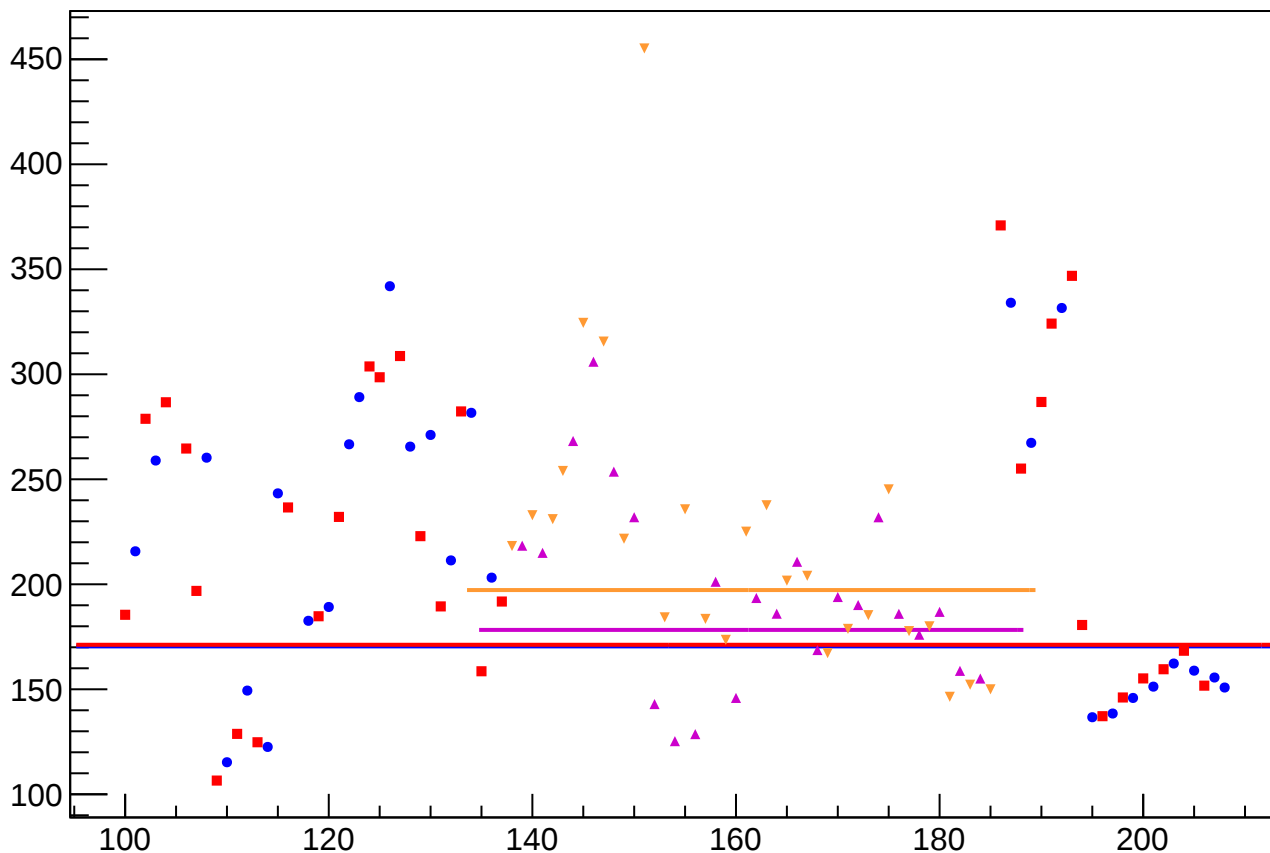
Right: -48.172 ± 33.227 $\chi^2/\text{NDF}: 28.7/58$

In: -10.376 ± 32.412 $\chi^2/\text{NDF}: 24.5/50$

Out: -14.474 ± 33.490 $\chi^2/\text{NDF}: 20.9/55$

All: -12.358 ± 23.290 $\chi^2/\text{NDF}: 45.4/106$

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs Slug, Sign Corrected



Right In: 170.424+/-0.033 χ^2/NDF : 2110223.8/27

Left Out: 197.249+/-0.034 χ^2/NDF :1786808.1/24

Right Out: 171.199+/-0.033 χ^2/NDF : 2770075.3/30

Left In: 178.277+/-0.032 χ^2/NDF :1628916.6/22

Left: 187.167+/-0.023 χ^2/NDF : 3583826.5/47

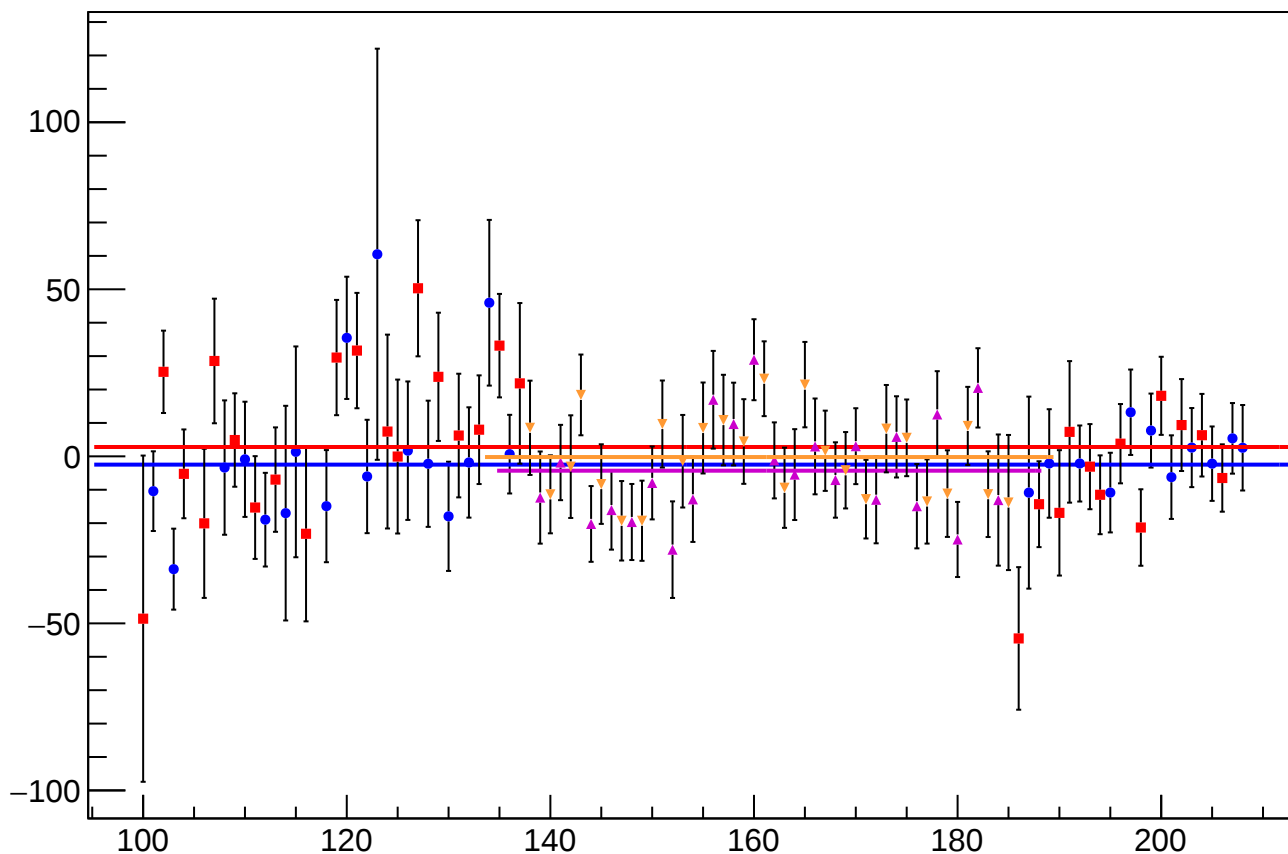
Right: 170.811+/-0.023 χ^2/NDF : 4880570.6/58

In: 174.535+/-0.023 χ^2/NDF :3768423.8/50

Out: 184.037+/-0.024 χ^2/NDF :4859359.2/55

All: 179.131+/-0.016 χ^2/NDF : 8710919.6/106

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs Slug, Sign Corrected



Right In: -2.481 ± 2.783 $\chi^2/\text{NDF}: 23.4/27$

Left Out: -0.211 ± 2.523 $\chi^2/\text{NDF}: 24.5/24$

Right Out: 2.796 ± 2.770 $\chi^2/\text{NDF}: 46.2/30$

Left In: -4.298 ± 2.589 $\chi^2/\text{NDF}: 31.6/22$

Left: -2.202 ± 1.807 $\chi^2/\text{NDF}: 57.4/47$

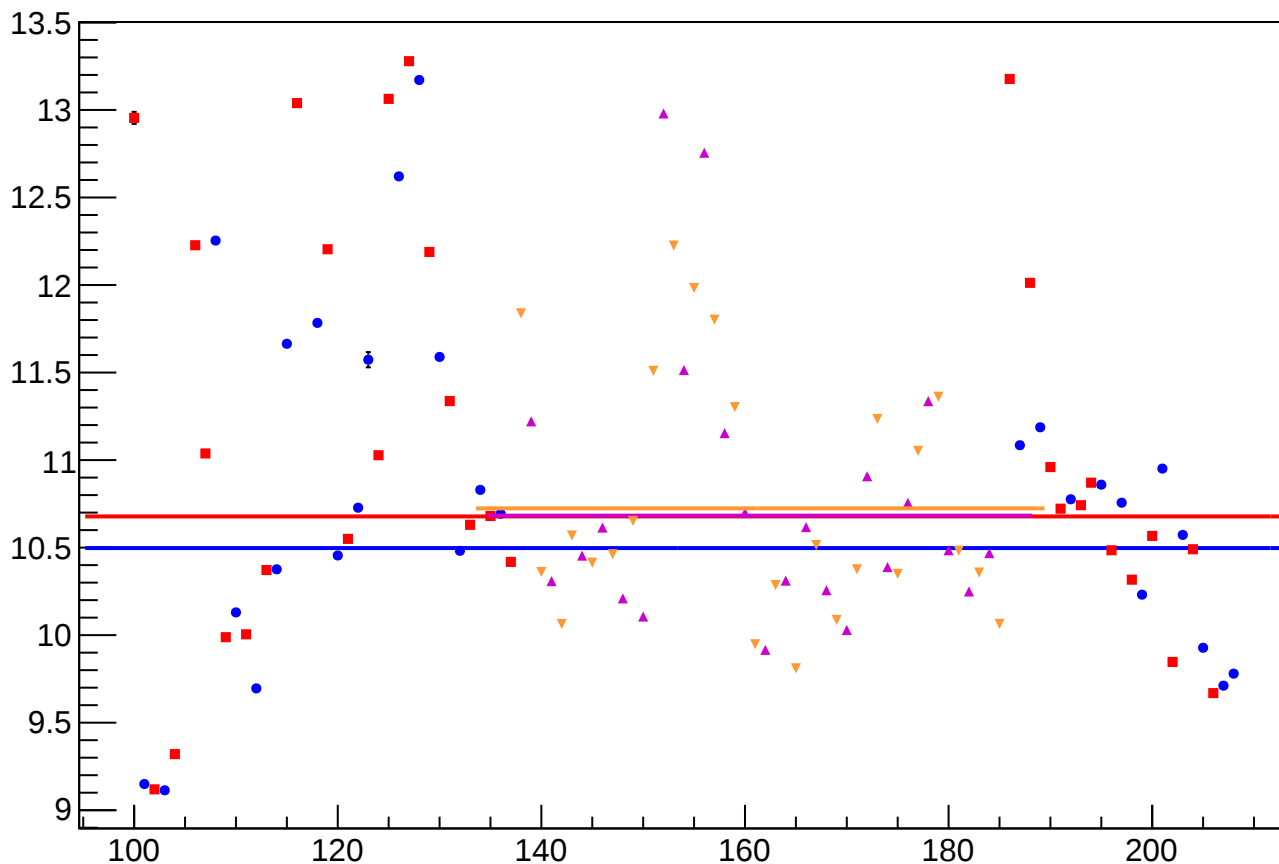
Right: 0.170 ± 1.963 $\chi^2/\text{NDF}: 71.4/58$

In: -3.455 ± 1.896 $\chi^2/\text{NDF}: 55.2/50$

Out: 1.153 ± 1.865 $\chi^2/\text{NDF}: 71.3/55$

All: -1.114 ± 1.330 $\chi^2/\text{NDF}: 129.5/106$

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs Slug, Sign Corrected



Right In: 10.497 $\pm$ 0.002 χ^2 /NDF: 195478.8/27

Left Out: 10.724 $\pm$ 0.002 χ^2 /NDF:132558.9/24

Right Out: 10.678 $\pm$ 0.002 χ^2 /NDF: 259051.8/30

Left In: 10.683 $\pm$ 0.002 χ^2 /NDF:147835.6/22

Left: 10.704 $\pm$ 0.001 χ^2 /NDF: 280658.8/47

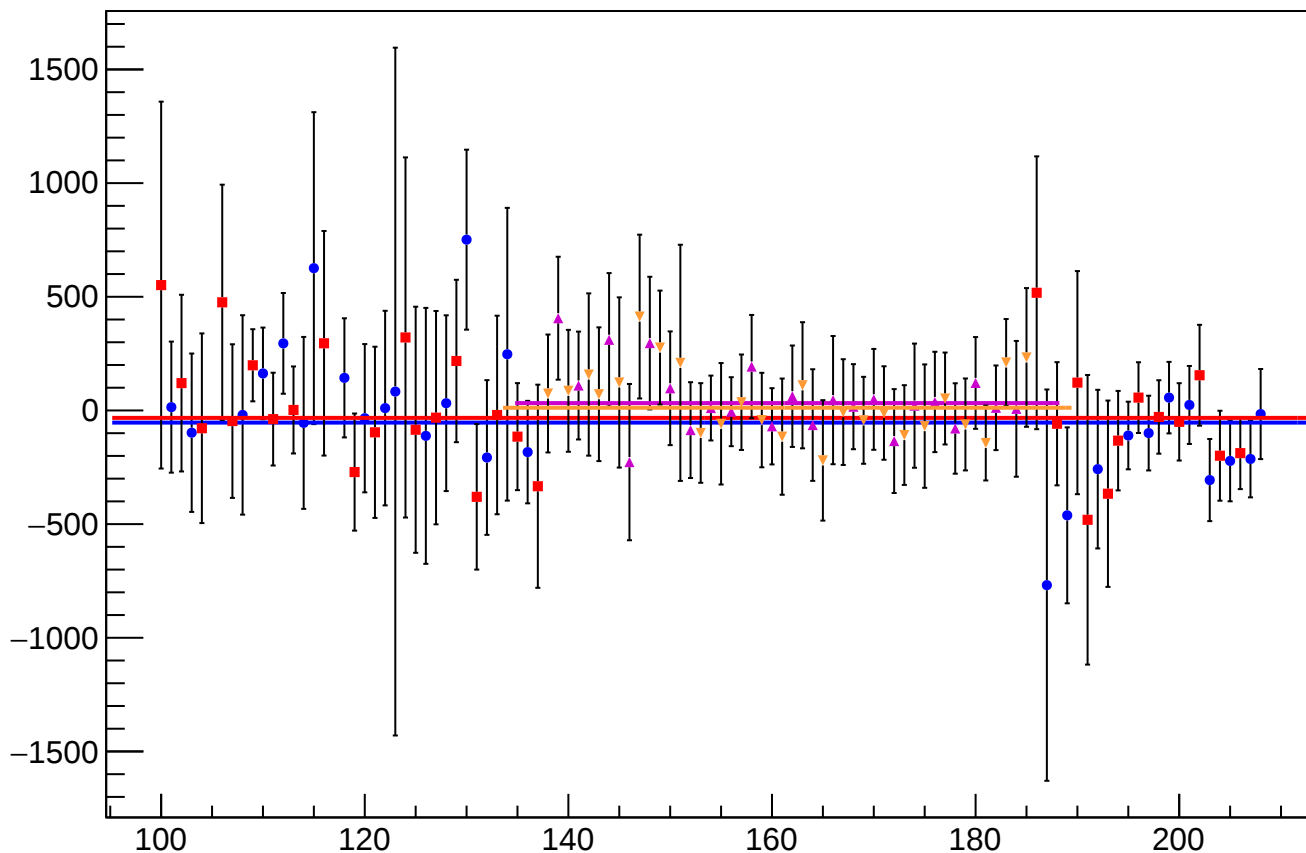
Right: 10.588 $\pm$ 0.001 χ^2 /NDF: 458766.7/58

In: 10.597 $\pm$ 0.001 χ^2 /NDF:348061.8/50

Out: 10.703 $\pm$ 0.001 χ^2 /NDF:391912.7/55

All: 10.651 $\pm$ 0.001 χ^2 /NDF: 743187.0/106

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -53.440 ± 47.033 $\chi^2/\text{NDF}: 17.1/27$

Left Out: 11.891 ± 48.022 $\chi^2/\text{NDF}: 7.6/24$

Right Out: -32.662 ± 47.196 $\chi^2/\text{NDF}: 12.6/30$

Left In: 32.413 ± 45.155 $\chi^2/\text{NDF}: 6.9/22$

Left: 22.783 ± 32.896 $\chi^2/\text{NDF}: 14.6/47$

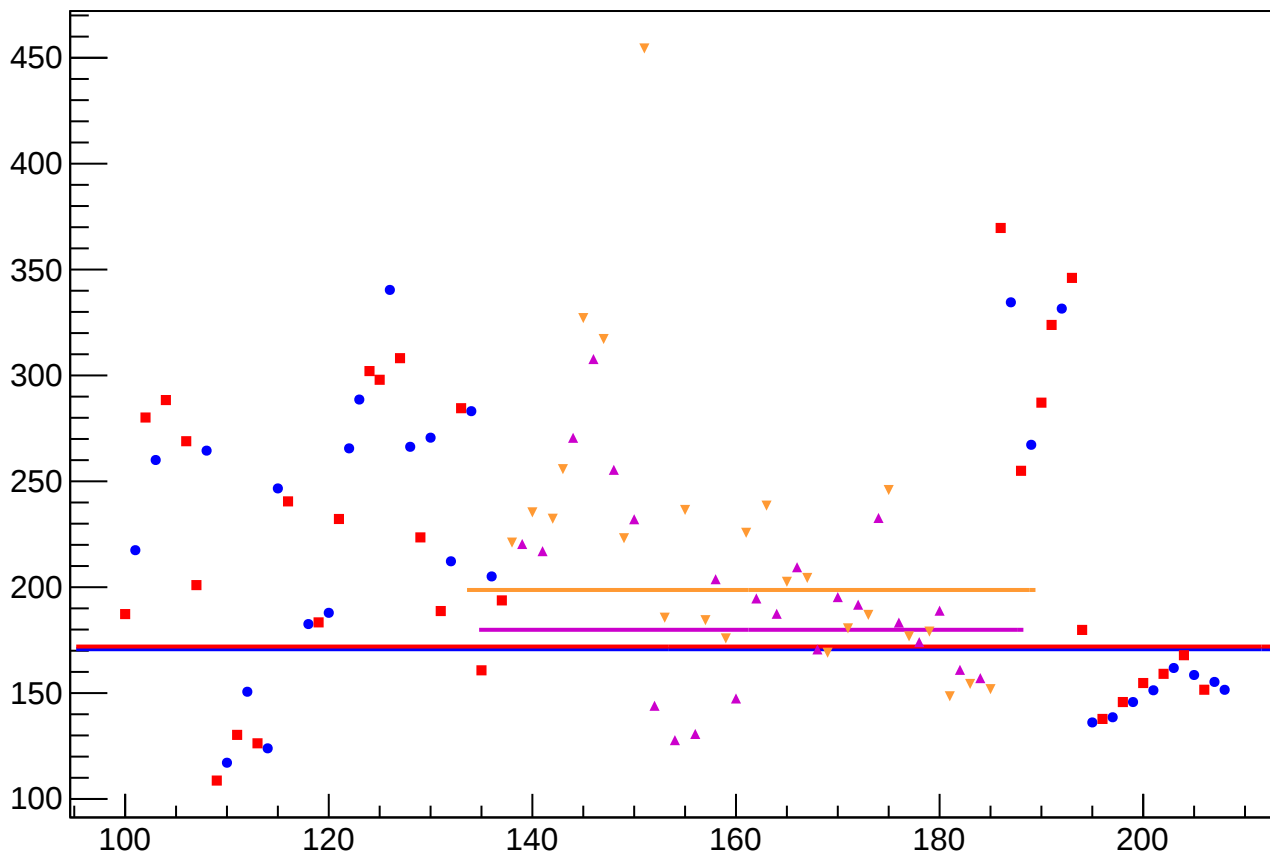
Right: -43.087 ± 33.315 $\chi^2/\text{NDF}: 29.8/58$

In: -8.765 ± 32.573 $\chi^2/\text{NDF}: 25.7/50$

Out: -10.773 ± 33.661 $\chi^2/\text{NDF}: 20.7/55$

All: -9.736 ± 23.408 $\chi^2/\text{NDF}: 46.4/106$

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 170.713 $\pm$ 0.033 χ^2 /NDF: 2109113.9/27

Left Out: 198.695 $\pm$ 0.034 χ^2 /NDF:1759311.9/24

Right Out: 171.977 $\pm$ 0.033 χ^2 /NDF: 2728236.3/30

Left In: 179.886 $\pm$ 0.032 χ^2 /NDF:1580636.4/22

Left: 188.712 $\pm$ 0.023 χ^2 /NDF: 3502782.6/47

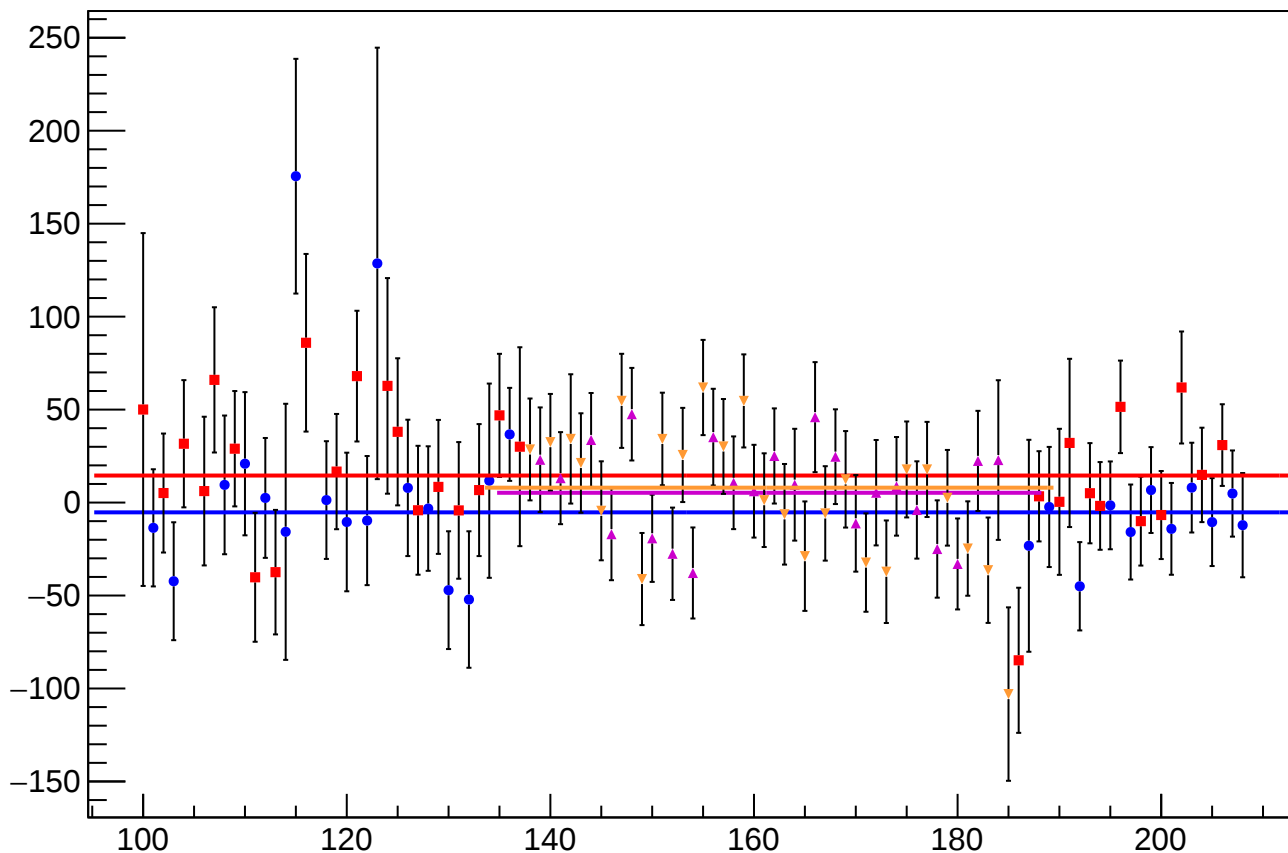
Right: 171.343 $\pm$ 0.024 χ^2 /NDF: 4838070.3/58

In: 175.486 $\pm$ 0.023 χ^2 /NDF:3729345.5/50

Out: 185.104 $\pm$ 0.024 χ^2 /NDF:4802470.1/55

All: 180.137 $\pm$ 0.017 χ^2 /NDF: 8616136.1/106

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -5.266 ± 5.842 χ^2/NDF : 22.3/27

Left Out: 8.004 ± 5.334 χ^2/NDF : 37.4/24

Right Out: 14.536 ± 5.759 χ^2/NDF : 29.3/30

Left In: 5.261 ± 5.465 χ^2/NDF : 20.8/22

Left: 6.665 ± 3.817 χ^2/NDF : 58.3/47

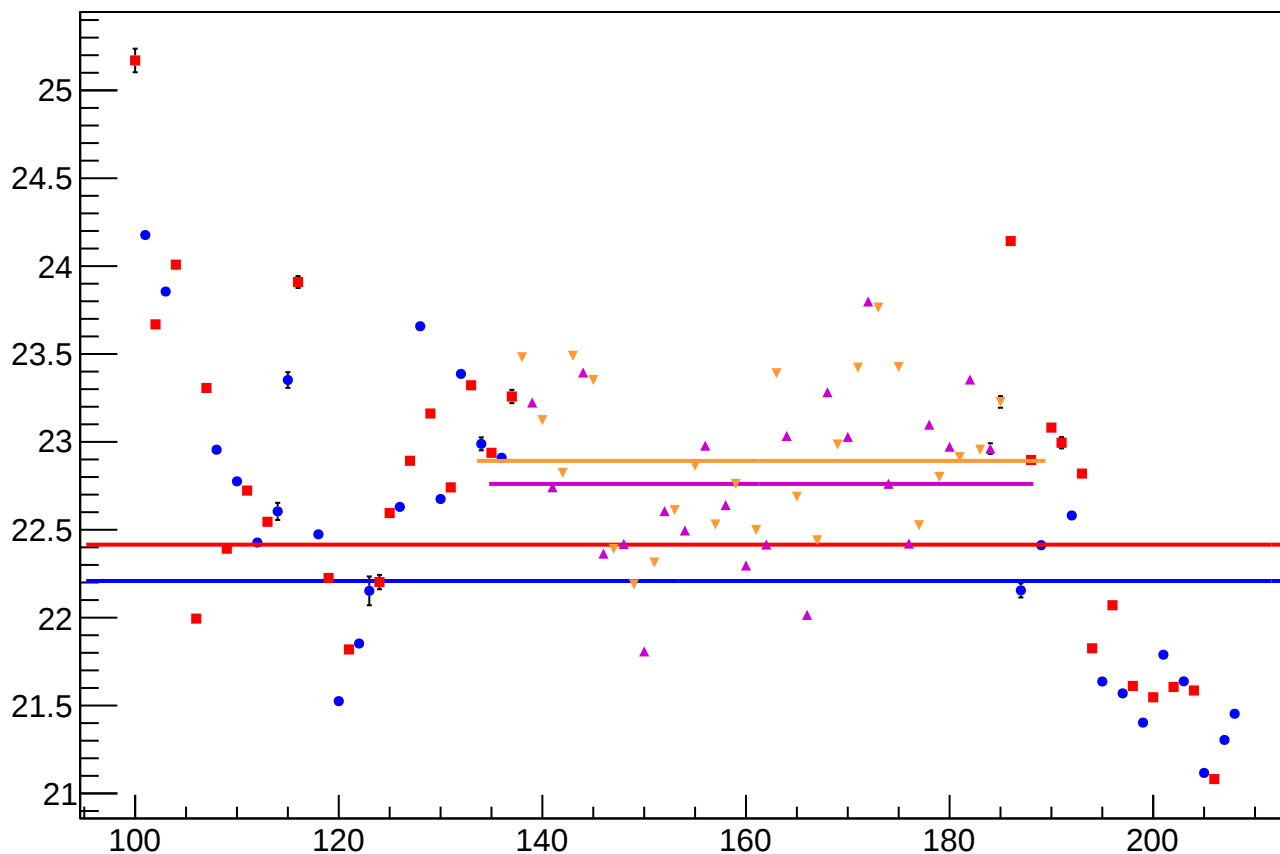
Right: 4.776 ± 4.101 χ^2/NDF : 57.4/58

In: 0.348 ± 3.991 χ^2/NDF : 44.8/50

Out: 11.020 ± 3.913 χ^2/NDF : 67.4/55

All: 5.789 ± 2.794 χ^2/NDF : 115.9/106

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.209+/-0.004 χ^2/NDF : 40692.3/27

Left Out: 22.892+/-0.004 χ^2/NDF :12995.5/24

Right Out: 22.415+/-0.004 χ^2/NDF : 40510.1/30

Left In: 22.761+/-0.004 χ^2/NDF :14550.0/22

Left: 22.828+/-0.003 χ^2/NDF : 28133.9/47

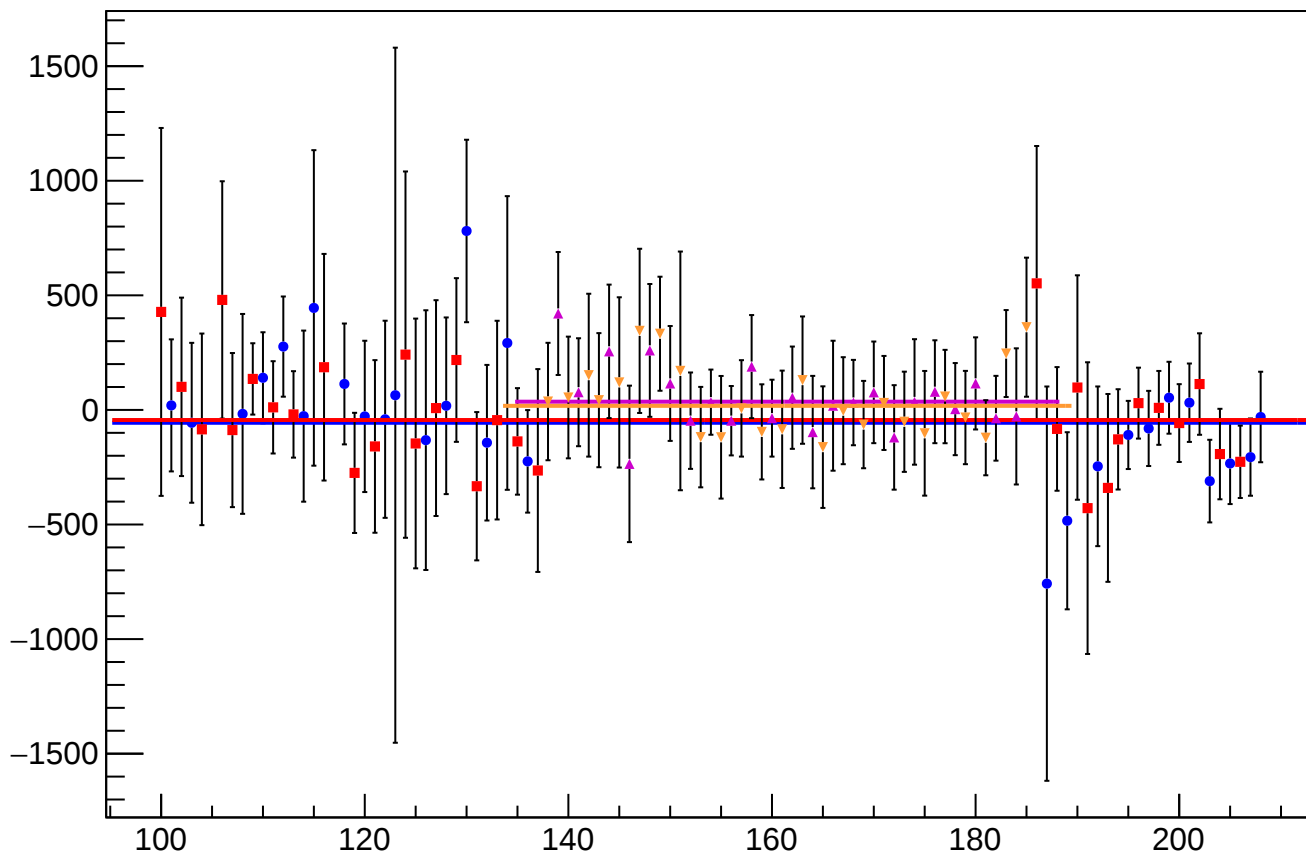
Right: 22.314+/-0.003 χ^2/NDF : 82471.8/58

In: 22.503+/-0.003 χ^2/NDF :64774.1/50

Out: 22.672+/-0.003 χ^2/NDF :60877.1/55

All: 22.589+/-0.002 χ^2/NDF : 127472.1/106

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -56.037 $\pm$ 46.897 χ^2 /NDF: 16.6/27

Left Out: 17.777 $\pm$ 47.941 χ^2 /NDF:8.5/24

Right Out: -44.100 $\pm$ 46.980 χ^2 /NDF: 10.8/30

Left In: 35.879 $\pm$ 45.087 χ^2 /NDF:6.3/22

Left: 27.383 $\pm$ 32.844 χ^2 /NDF: 14.9/47

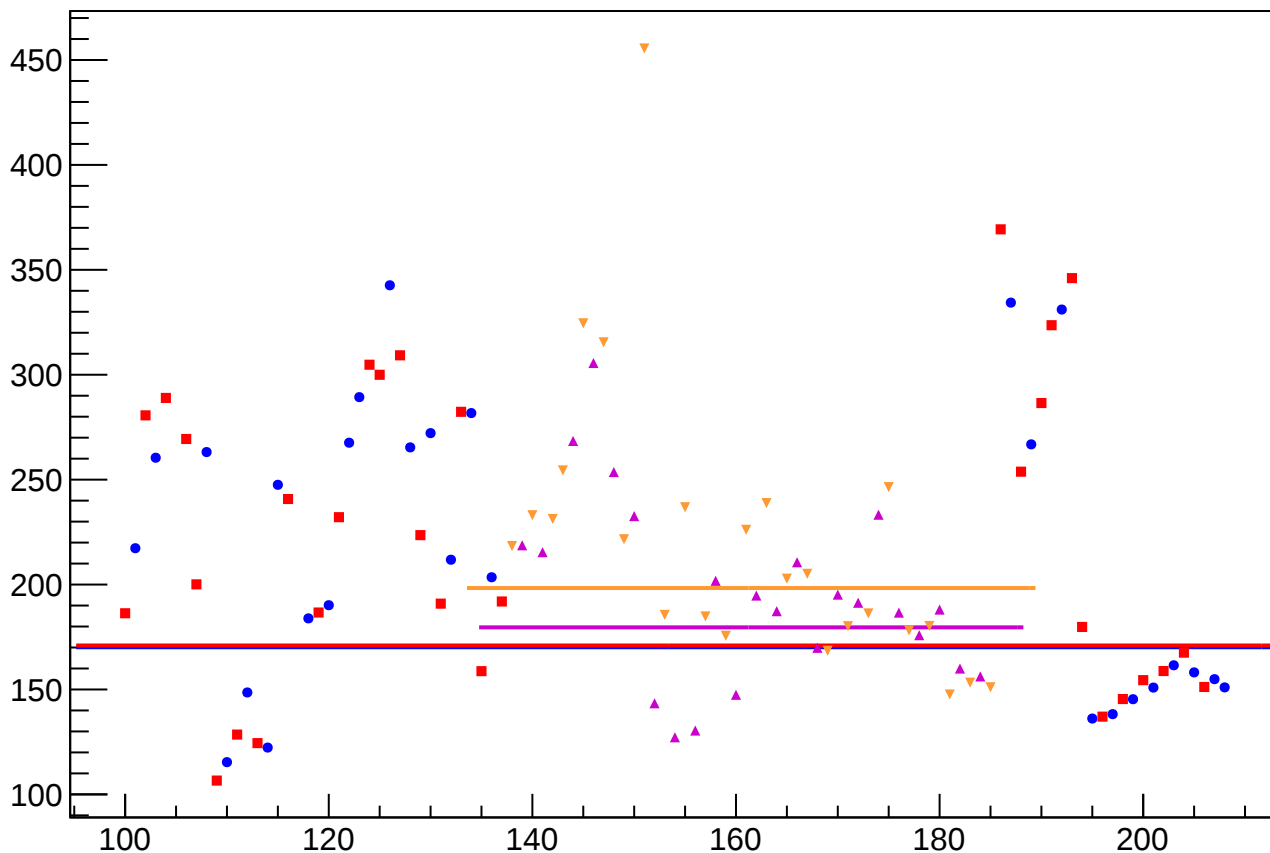
Right: -50.079 $\pm$ 33.190 χ^2 /NDF: 27.5/58

In: -8.272 $\pm$ 32.502 χ^2 /NDF:24.9/50

Out: -13.788 $\pm$ 33.555 χ^2 /NDF:20.2/55

All: -10.942 $\pm$ 23.346 χ^2 /NDF: 45.2/106

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 170.134+/-0.033 χ^2/NDF : 2139302.7/27

Left Out: 198.344+/-0.034 χ^2/NDF : 1757450.6/24

Right Out: 170.964+/-0.033 χ^2/NDF : 2797642.9/30

Left In: 179.605+/-0.032 χ^2/NDF : 1575744.0/22

Left: 188.400+/-0.023 χ^2/NDF : 3495336.8/47

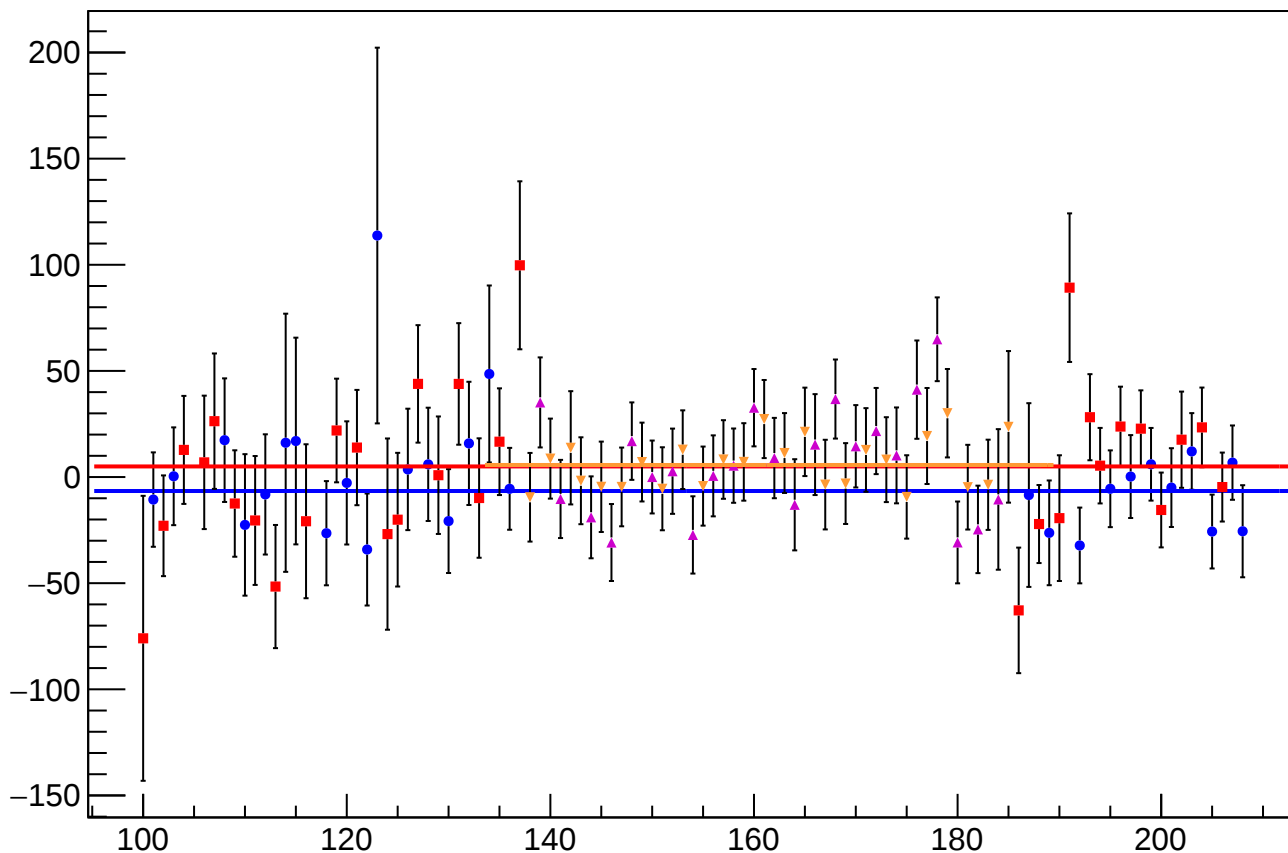
Right: 170.548+/-0.023 χ^2/NDF : 4937258.5/58

In: 175.056+/-0.023 χ^2/NDF : 3757438.8/50

Out: 184.377+/-0.024 χ^2/NDF : 4887861.6/55

All: 179.568+/-0.017 χ^2/NDF : 8724924.7/106

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -6.579 $\pm$ 4.465 χ^2 /NDF: 15.1/27

Left Out: 5.680 $\pm$ 4.024 χ^2 /NDF: 7.7/24

Right Out: 4.994 $\pm$ 4.412 χ^2 /NDF: 40.8/30

Left In: 5.595 $\pm$ 4.121 χ^2 /NDF: 36.4/22

Left: 5.639 $\pm$ 2.879 χ^2 /NDF: 44.1/47

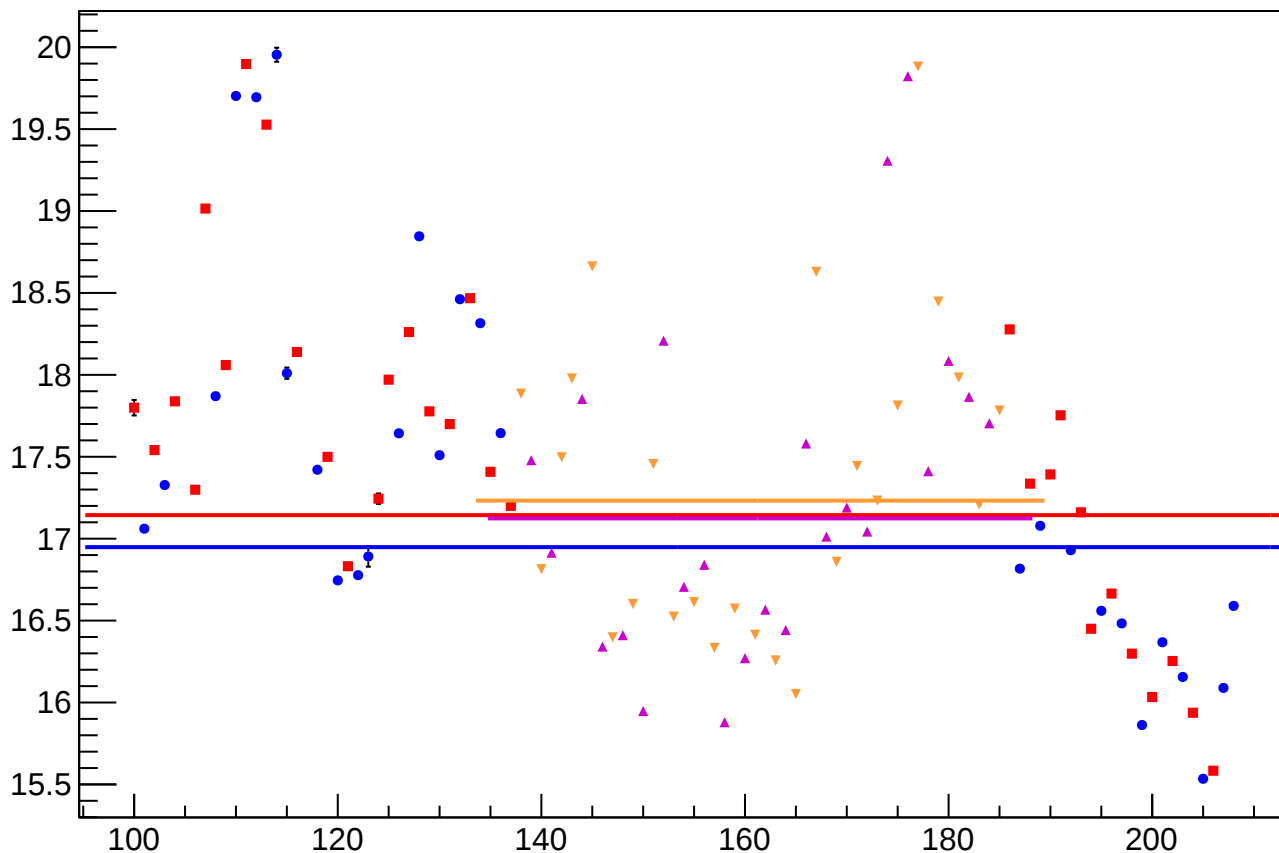
Right: -0.724 $\pm$ 3.138 χ^2 /NDF: 59.3/58

In: -0.006 $\pm$ 3.028 χ^2 /NDF: 55.5/50

Out: 5.369 $\pm$ 2.973 χ^2 /NDF: 48.6/55

All: 2.731 $\pm$ 2.122 χ^2 /NDF: 105.7/106

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 16.948 $\pm$ 0.003 χ^2 /NDF: 98938.9/27

Left Out: 17.232 $\pm$ 0.003 χ^2 /NDF:98701.0/24

Right Out: 17.144 $\pm$ 0.003 χ^2 /NDF: 105463.2/30

Left In: 17.124 $\pm$ 0.003 χ^2 /NDF:100747.0/22

Left: 17.179 $\pm$ 0.002 χ^2 /NDF: 200160.6/47

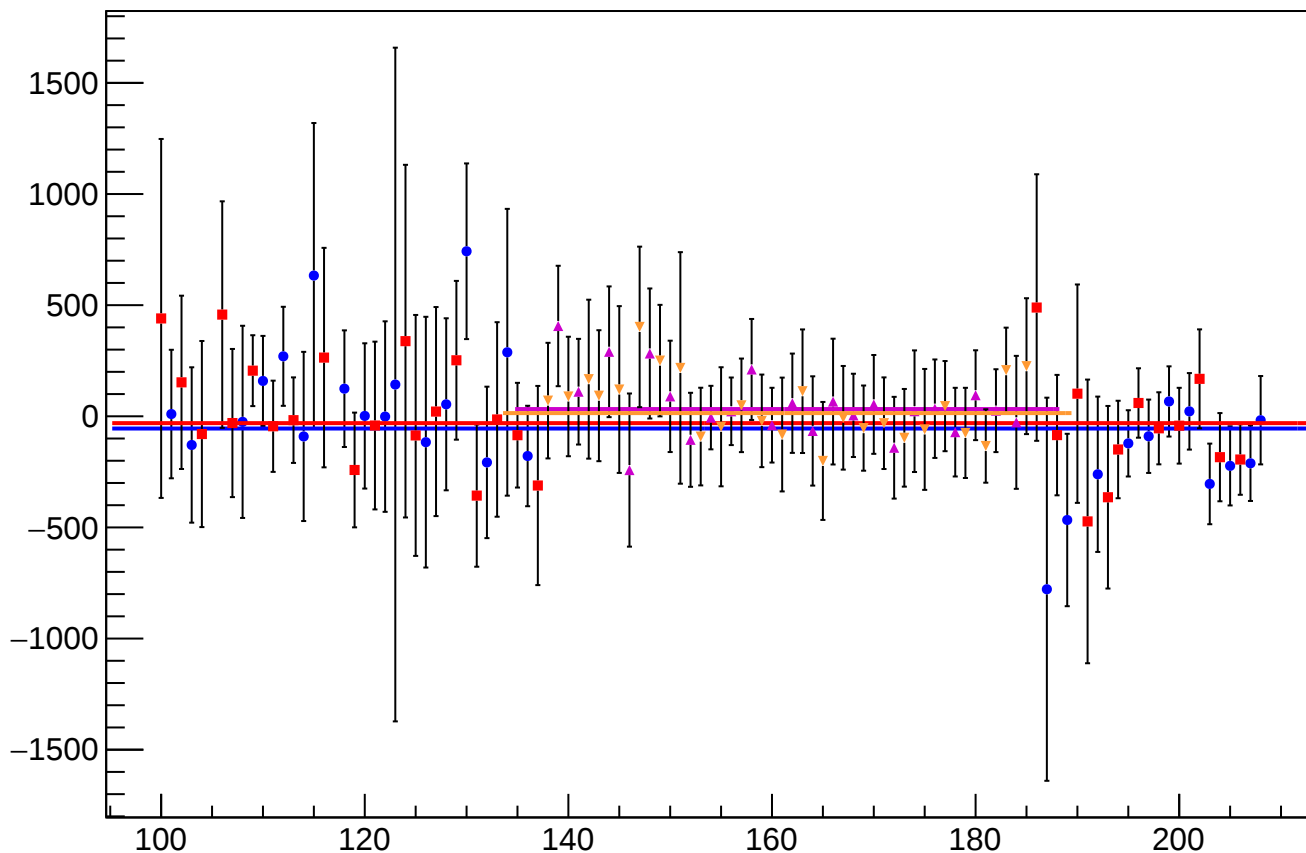
Right: 17.047 $\pm$ 0.002 χ^2 /NDF: 206340.4/58

In: 17.043 $\pm$ 0.002 χ^2 /NDF:201351.4/50

Out: 17.192 $\pm$ 0.002 χ^2 /NDF:204605.0/55

All: 17.119 $\pm$ 0.002 χ^2 /NDF: 408426.6/106

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -55.044 ± 47.174 χ^2/NDF : 16.7/27

Left Out: 14.362 ± 48.130 χ^2/NDF : 6.9/24

Right Out: -30.791 ± 47.313 χ^2/NDF : 12.2/30

Left In: 32.571 ± 45.248 χ^2/NDF : 6.7/22

Left: 24.028 ± 32.967 χ^2/NDF : 13.7/47

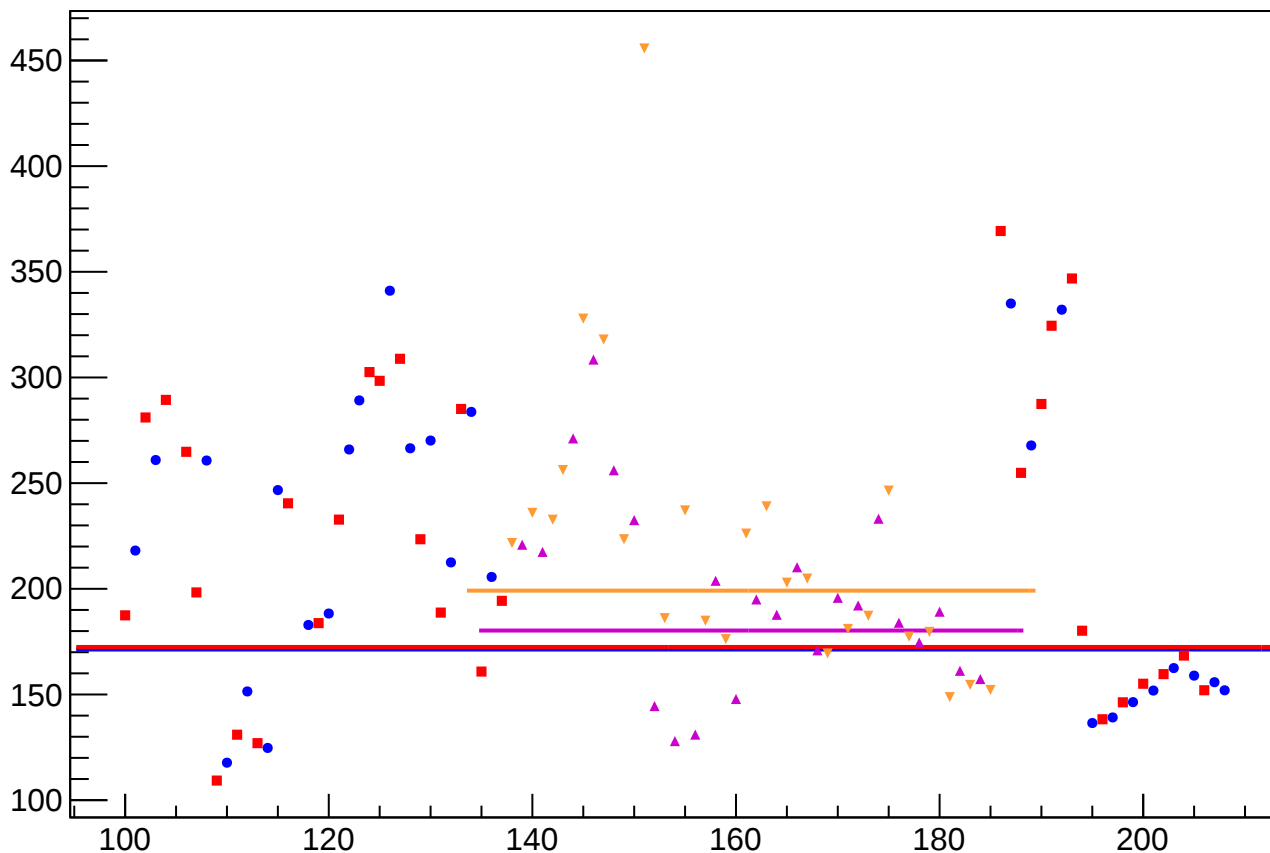
Right: -42.953 ± 33.406 χ^2/NDF : 29.0/58

In: -9.412 ± 32.654 χ^2/NDF : 25.2/50

Out: -8.600 ± 33.740 χ^2/NDF : 19.6/55

All: -9.019 ± 23.465 χ^2/NDF : 44.8/106

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 171.281+/-0.033 χ^2/NDF : 2091240.5/27

Left Out: 199.136+/-0.034 χ^2/NDF :1760298.1/24

Right Out: 172.480+/-0.033 χ^2/NDF : 2704343.8/30

Left In: 180.256+/-0.032 χ^2/NDF :1580553.5/22

Left: 189.114+/-0.023 χ^2/NDF : 3504211.1/47

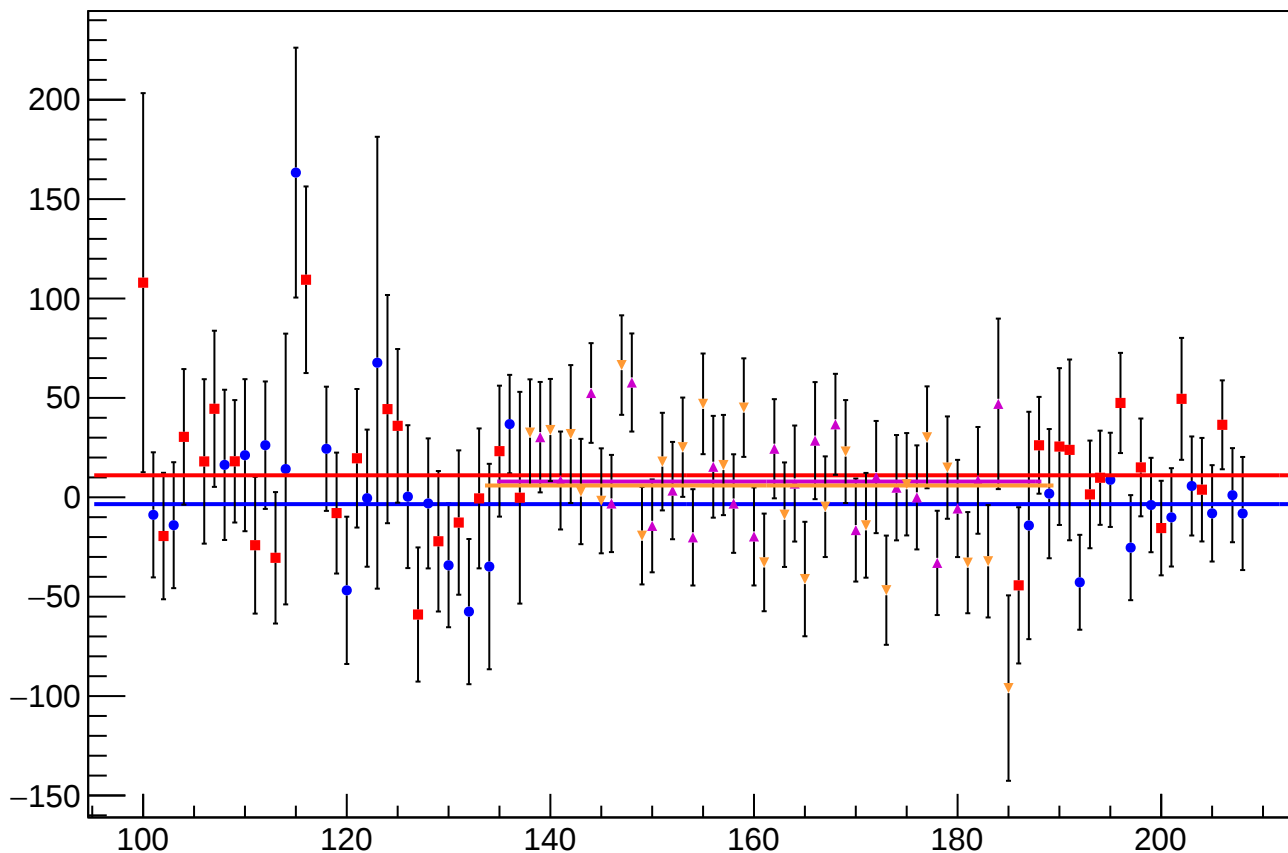
Right: 171.879+/-0.024 χ^2/NDF : 4796228.4/58

In: 175.956+/-0.023 χ^2/NDF :3709502.9/50

Out: 185.580+/-0.024 χ^2/NDF :4776624.0/55

All: 180.610+/-0.017 χ^2/NDF : 8570152.2/106

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -3.439 ± 5.876 χ^2/NDF : 21.6/27

Left Out: 5.937 ± 5.285 χ^2/NDF : 36.1/24

Right Out: 11.067 ± 5.774 χ^2/NDF : 26.2/30

Left In: 7.915 ± 5.422 χ^2/NDF : 18.7/22

Left: 6.901 ± 3.784 χ^2/NDF : 54.9/47

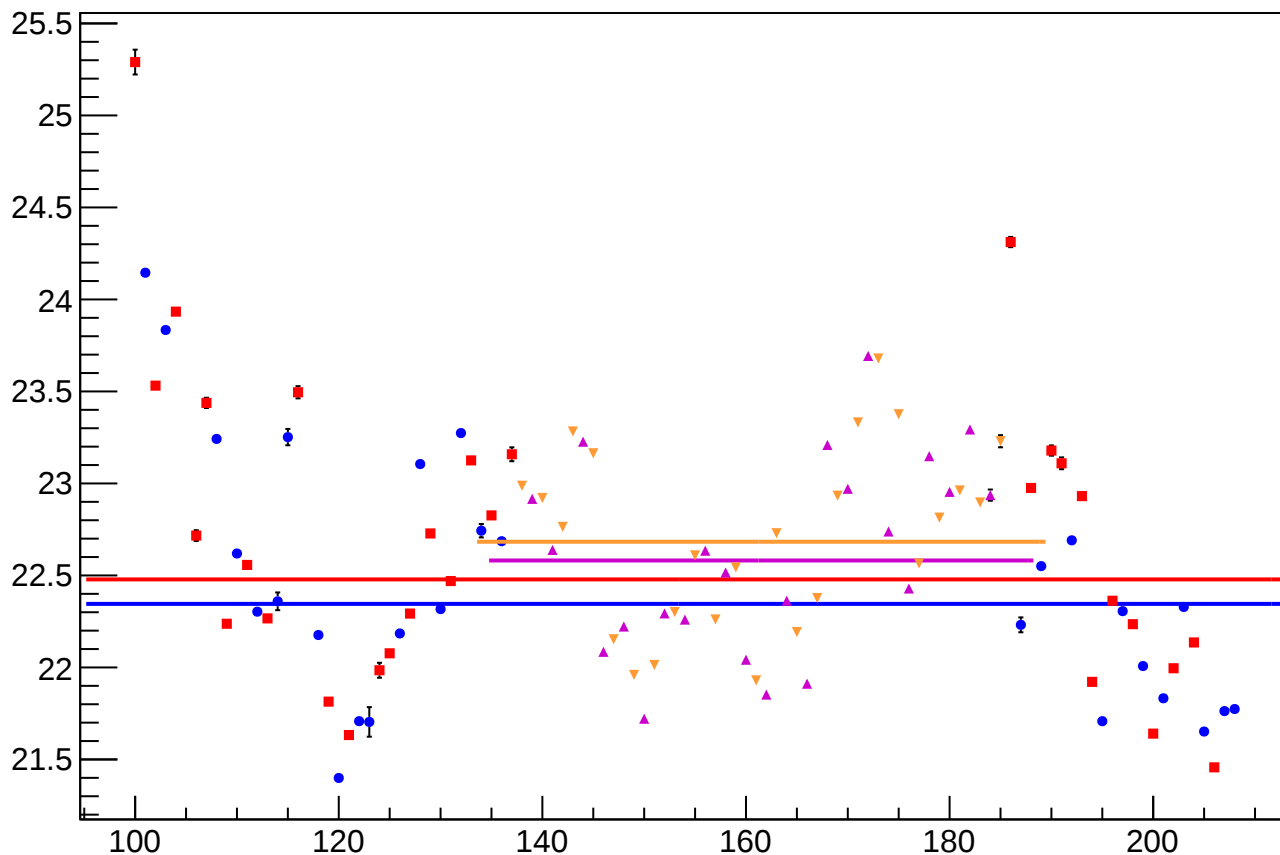
Right: 3.942 ± 4.119 χ^2/NDF : 50.9/58

In: 2.695 ± 3.985 χ^2/NDF : 42.3/50

Out: 8.276 ± 3.899 χ^2/NDF : 62.8/55

All: 5.546 ± 2.787 χ^2/NDF : 106.1/106

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.345+/-0.004 χ^2/NDF : 24509.5/27

Left Out: 22.683+/-0.004 χ^2/NDF : 16320.2/24

Right Out: 22.478+/-0.004 χ^2/NDF : 29469.4/30

Left In: 22.581+/-0.004 χ^2/NDF : 17904.5/22

Left: 22.634+/-0.003 χ^2/NDF : 34586.9/47

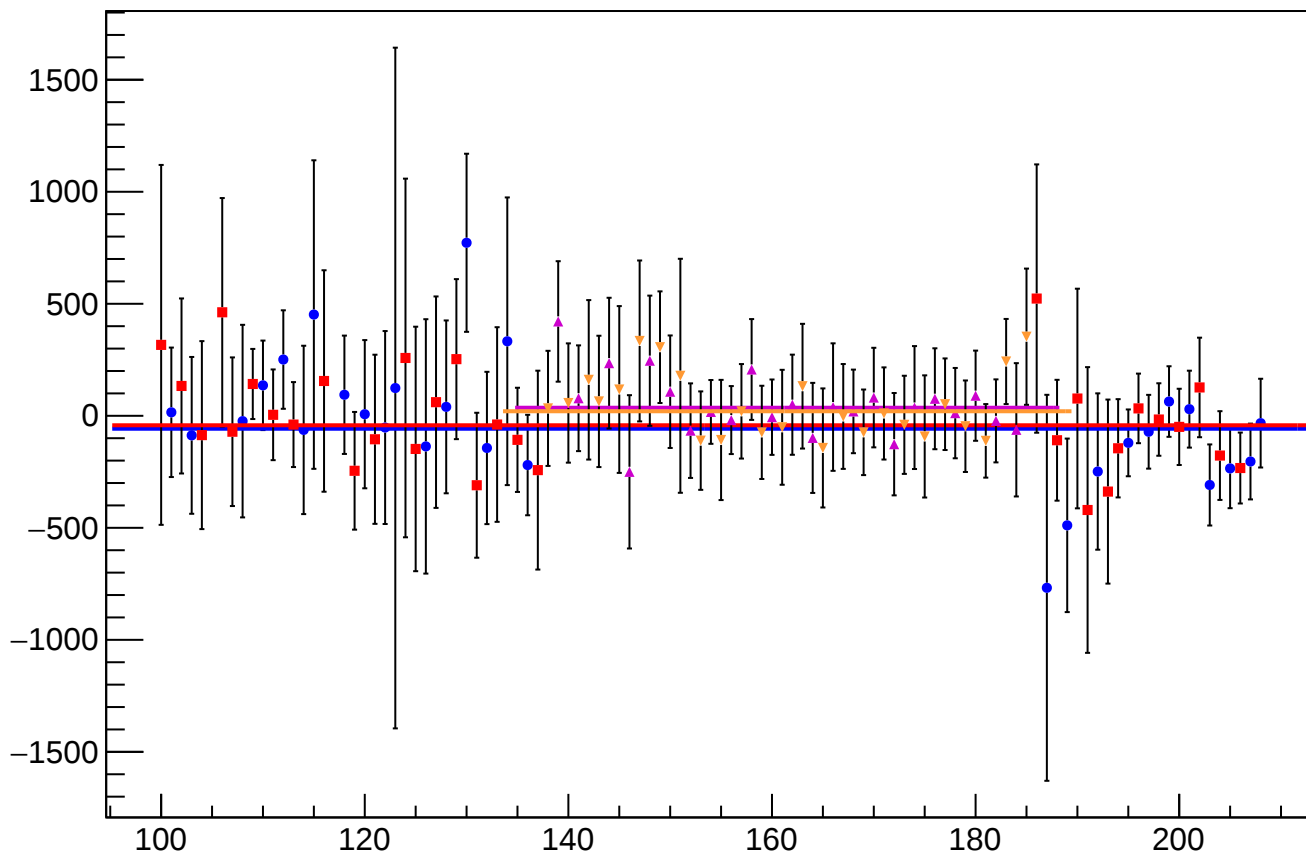
Right: 22.413+/-0.003 χ^2/NDF : 54500.4/58

In: 22.473+/-0.003 χ^2/NDF : 44154.7/50

Out: 22.590+/-0.003 χ^2/NDF : 47157.7/55

All: 22.533+/-0.002 χ^2/NDF : 92193.6/106

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -57.724 ± 47.039 χ^2/NDF : 16.3/27

Left Out: 20.306 ± 48.049 χ^2/NDF : 7.7/24

Right Out: -42.280 ± 47.100 χ^2/NDF : 10.4/30

Left In: 35.996 ± 45.180 χ^2/NDF : 6.1/22

Left: 28.633 ± 32.915 χ^2/NDF : 13.8/47

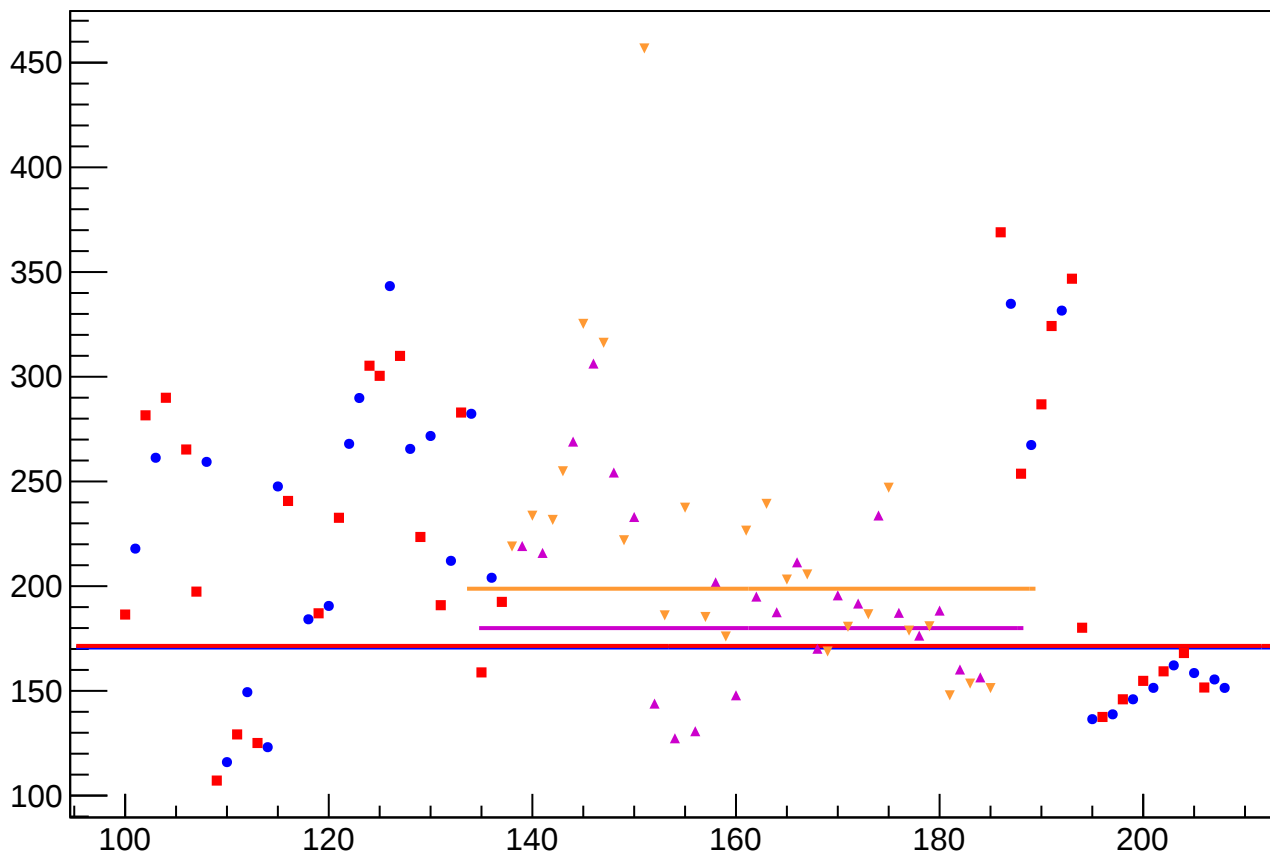
Right: -50.012 ± 33.283 χ^2/NDF : 26.7/58

In: -8.976 ± 32.584 χ^2/NDF : 24.4/50

Out: -11.611 ± 33.635 χ^2/NDF : 18.9/55

All: -10.252 ± 23.403 χ^2/NDF : 43.3/106

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 170.708 $\pm$ 0.033 χ^2 /NDF: 2120846.8/27

Left Out: 198.784 $\pm$ 0.034 χ^2 /NDF:1758481.8/24

Right Out: 171.475 $\pm$ 0.033 χ^2 /NDF: 2772812.6/30

Left In: 179.972 $\pm$ 0.032 χ^2 /NDF:1575888.3/22

Left: 188.800 $\pm$ 0.023 χ^2 /NDF: 3497081.8/47

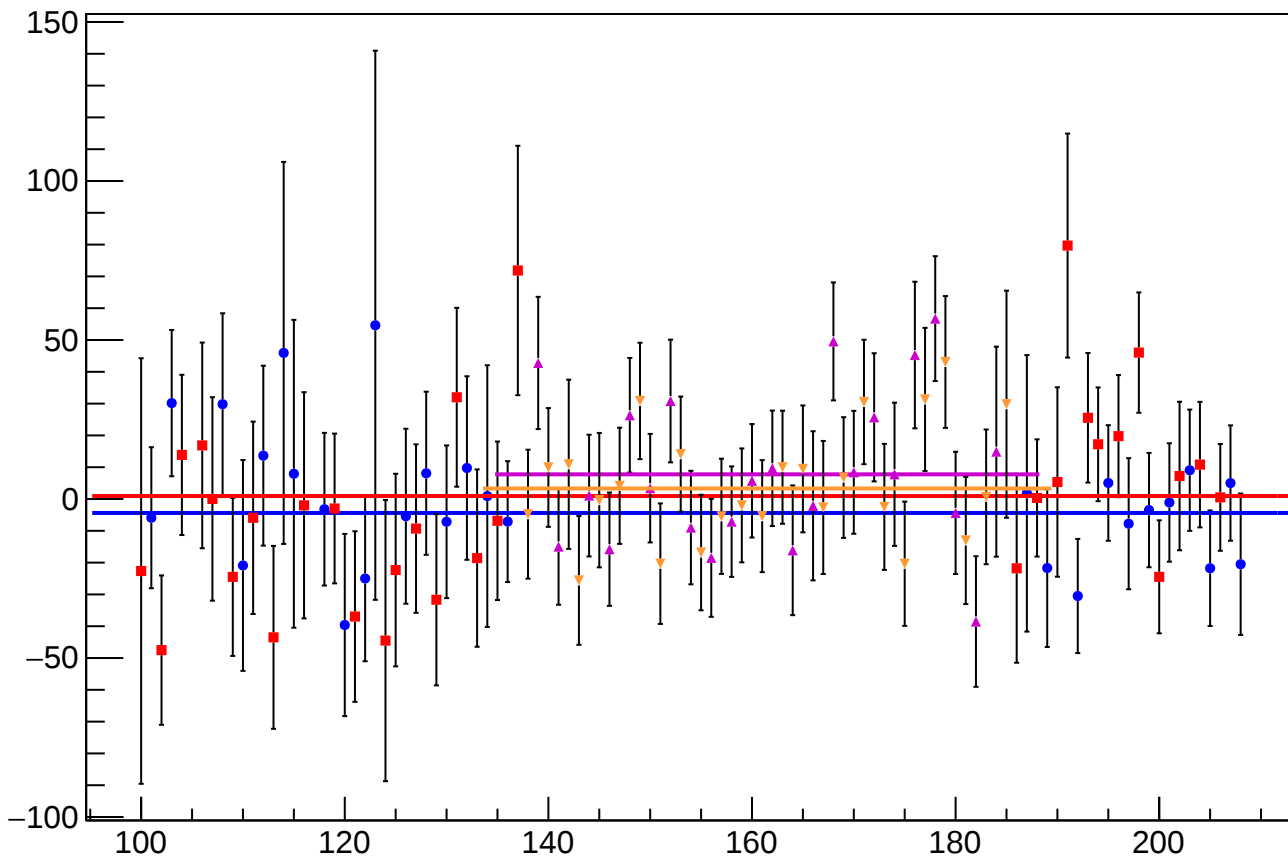
Right: 171.091 $\pm$ 0.024 χ^2 /NDF: 4893925.2/58

In: 175.527 $\pm$ 0.023 χ^2 /NDF:3737091.7/50

Out: 184.857 $\pm$ 0.024 χ^2 /NDF:4860782.0/55

All: 180.044 $\pm$ 0.017 χ^2 /NDF: 8677268.7/106

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -4.382 ± 4.509 $\chi^2/\text{NDF}: 13.4/27$

Left Out: 3.307 ± 3.954 $\chi^2/\text{NDF}: 18.7/24$

Right Out: 0.933 ± 4.435 $\chi^2/\text{NDF}: 35.7/30$

Left In: 7.756 ± 4.061 $\chi^2/\text{NDF}: 34.3/22$

Left: 5.472 ± 2.833 $\chi^2/\text{NDF}: 53.6/47$

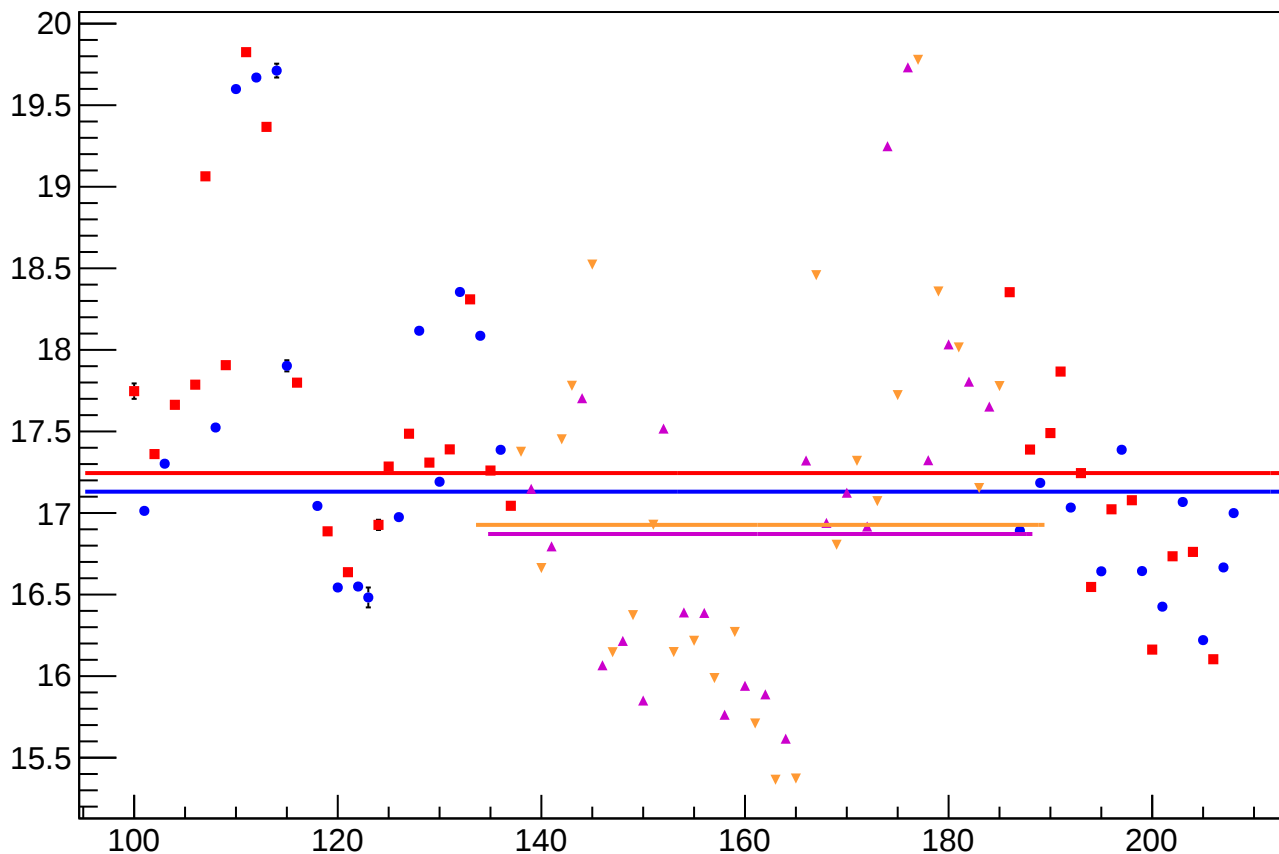
Right: -1.681 ± 3.162 $\chi^2/\text{NDF}: 49.8/58$

In: 2.321 ± 3.018 $\chi^2/\text{NDF}: 51.7/50$

Out: 2.256 ± 2.951 $\chi^2/\text{NDF}: 54.5/55$

All: 2.288 ± 2.110 $\chi^2/\text{NDF}: 106.2/106$

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 17.131 $\pm$ 0.003 χ^2 /NDF: 54646.5/27

Left Out: 16.927 $\pm$ 0.003 χ^2 /NDF:138533.2/24

Right Out: 17.245 $\pm$ 0.003 χ^2 /NDF: 65835.2/30

Left In: 16.871 $\pm$ 0.003 χ^2 /NDF:117993.8/22

Left: 16.900 $\pm$ 0.002 χ^2 /NDF: 256722.4/47

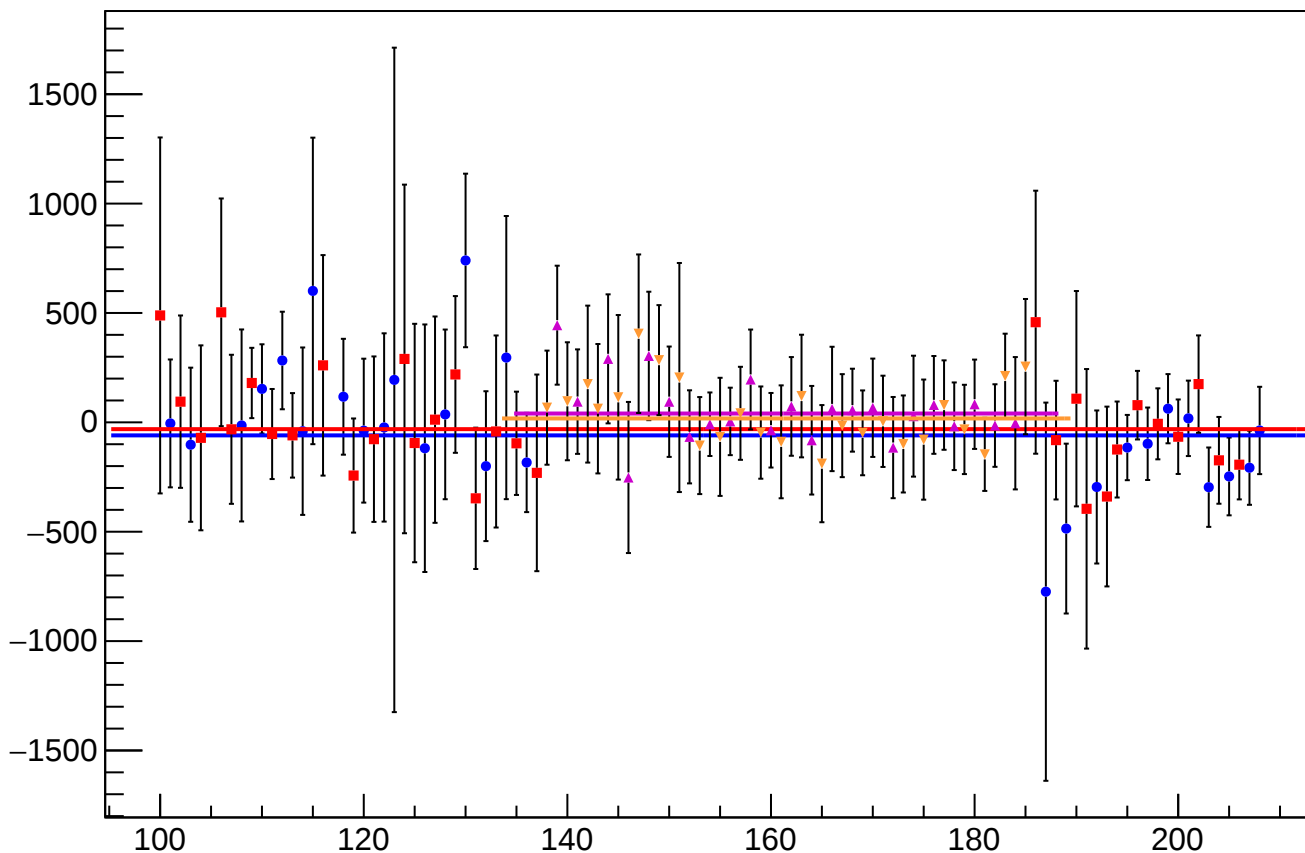
Right: 17.189 $\pm$ 0.002 χ^2 /NDF: 121132.2/58

In: 16.987 $\pm$ 0.002 χ^2 /NDF:176297.5/50

Out: 17.068 $\pm$ 0.002 χ^2 /NDF:210081.4/55

All: 17.029 $\pm$ 0.001 χ^2 /NDF: 387104.9/106

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -59.606 ± 47.309 χ^2/NDF : 16.7/27

Left Out: 17.828 ± 48.547 χ^2/NDF : 7.5/24

Right Out: -31.097 ± 47.479 χ^2/NDF : 11.1/30

Left In: 40.355 ± 45.689 χ^2/NDF : 6.6/22

Left: 29.774 ± 33.271 χ^2/NDF : 14.2/47

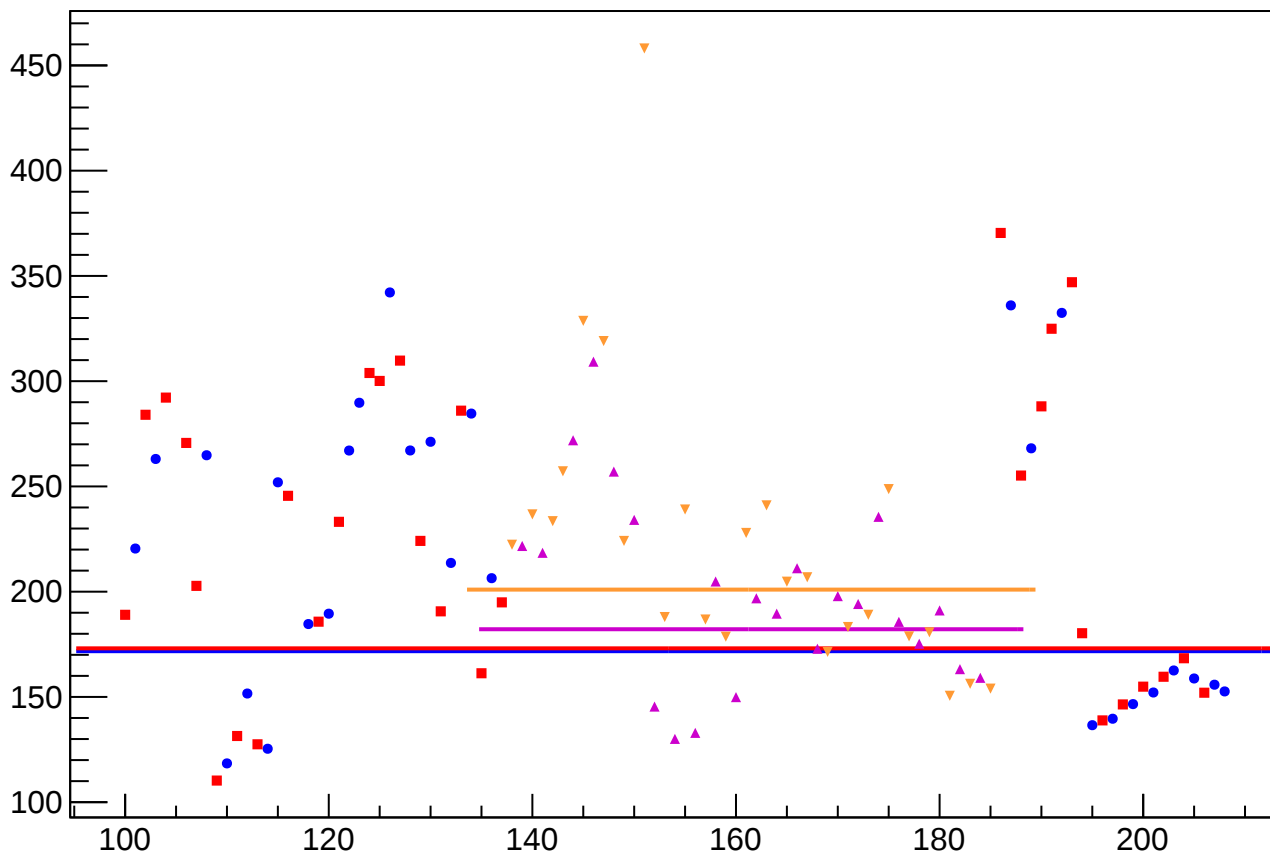
Right: -45.402 ± 33.512 χ^2/NDF : 27.9/58

In: -7.885 ± 32.865 χ^2/NDF : 25.7/50

Out: -7.179 ± 33.944 χ^2/NDF : 19.0/55

All: -7.543 ± 23.611 χ^2/NDF : 44.7/106

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 171.733+/-0.033 χ^2/NDF : 2106905.0/27

Left Out: 200.985+/-0.034 χ^2/NDF : 1727291.4/24

Right Out: 173.081+/-0.034 χ^2/NDF : 2715103.5/30

Left In: 182.158+/-0.032 χ^2/NDF : 1535922.8/22

Left: 191.001+/-0.024 χ^2/NDF : 3422724.8/47

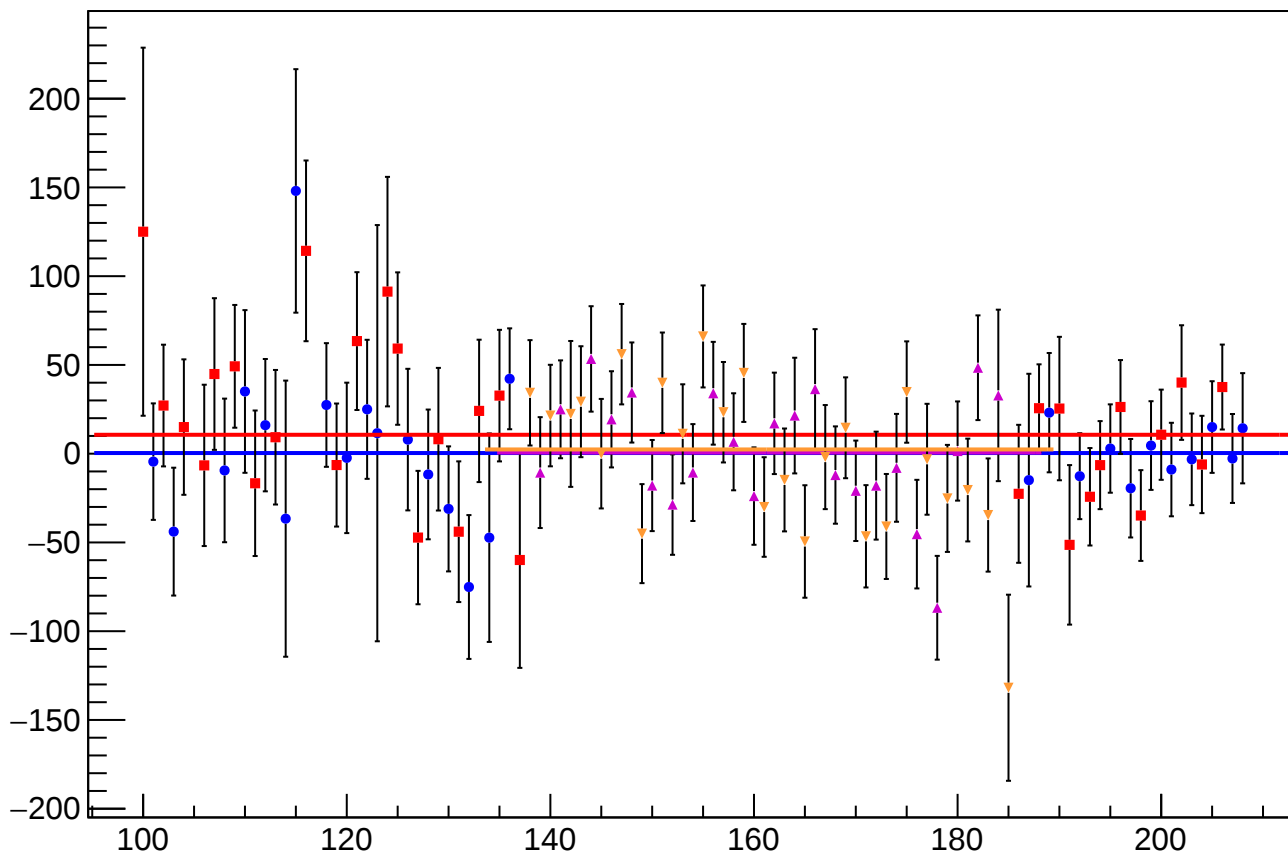
Right: 172.404+/-0.024 χ^2/NDF : 4822817.6/58

In: 177.127+/-0.023 χ^2/NDF : 3693081.9/50

Out: 186.723+/-0.024 χ^2/NDF : 4780124.4/55

All: 181.770+/-0.017 χ^2/NDF : 8555701.9/106

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 0.369+/-6.353 χ^2/NDF : 17.5/27

Left Out: 2.390+/-5.980 χ^2/NDF : 39.1/24

Right Out: 10.654+/-6.208 χ^2/NDF : 30.3/30

Left In: 0.641+/-6.091 χ^2/NDF : 27.3/22

Left: 1.531+/-4.267 χ^2/NDF : 66.5/47

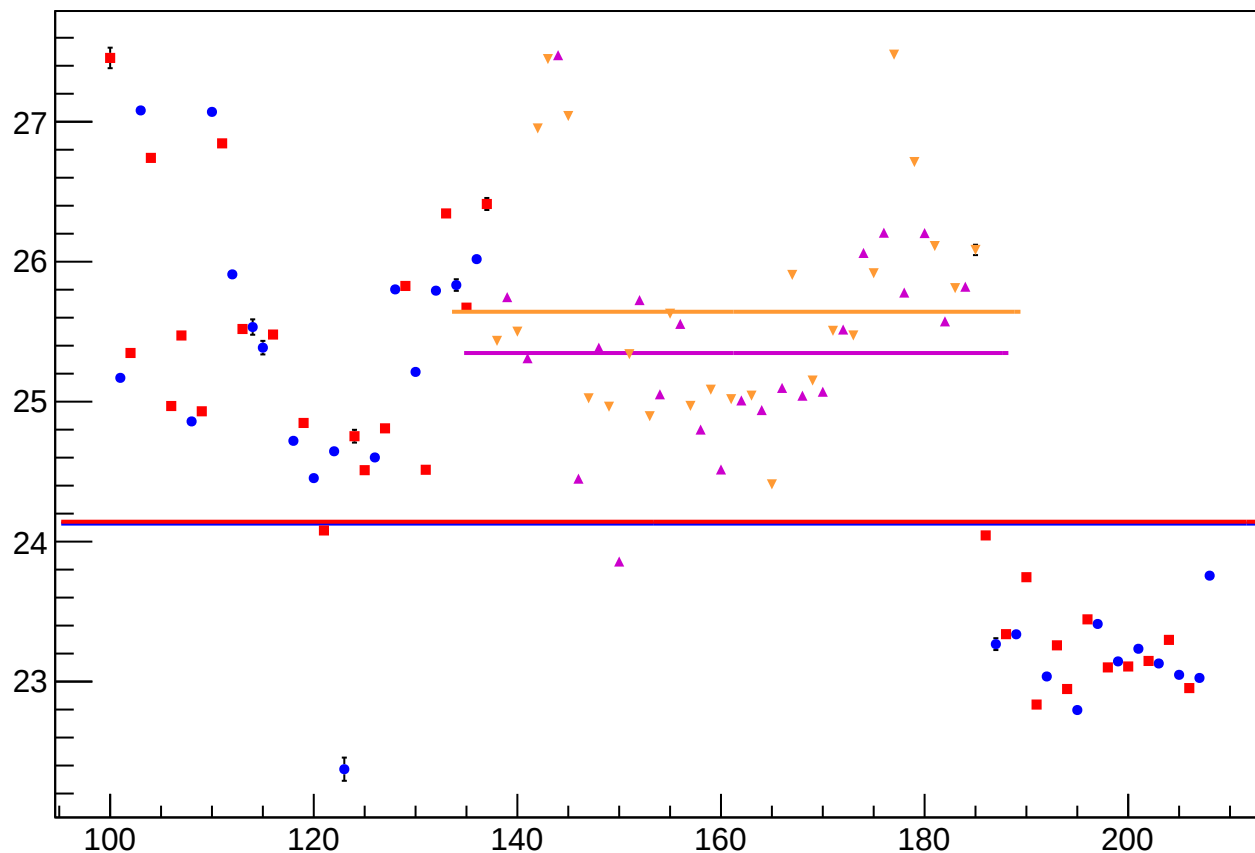
Right: 5.631+/-4.440 χ^2/NDF : 49.2/58

In: 0.511+/-4.397 χ^2/NDF : 44.8/50

Out: 6.367+/-4.307 χ^2/NDF : 70.3/55

All: 3.500+/-3.077 χ^2/NDF : 116.1/106

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 24.129 ± 0.004 $\chi^2/\text{NDF}: 80732.9/27$

Left Out: 25.642 ± 0.004 $\chi^2/\text{NDF}: 34802.2/24$

Right Out: 24.142 ± 0.004 $\chi^2/\text{NDF}: 75355.6/30$

Left In: 25.347 ± 0.004 $\chi^2/\text{NDF}: 29389.5/22$

Left: 25.498 ± 0.003 $\chi^2/\text{NDF}: 66578.5/47$

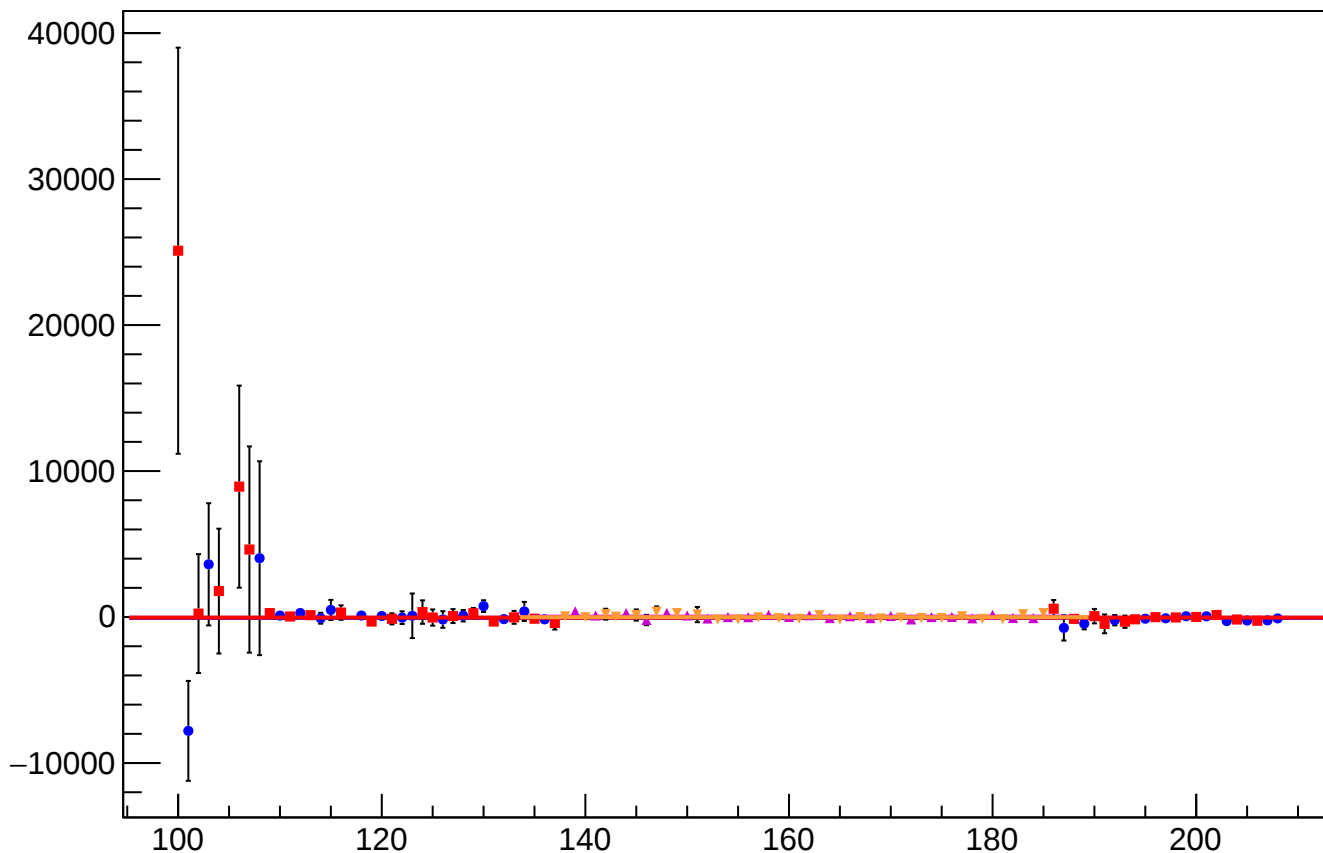
Right: 24.136 ± 0.003 $\chi^2/\text{NDF}: 156093.1/58$

In: 24.764 ± 0.003 $\chi^2/\text{NDF}: 148465.5/50$

Out: 24.920 ± 0.003 $\chi^2/\text{NDF}: 170730.2/55$

All: 24.844 ± 0.002 $\chi^2/\text{NDF}: 320490.4/106$

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -56.215 $\pm$ 49.609 χ^2 /NDF: 21.4/27

Left Out: -11.432 $\pm$ 48.263 χ^2 /NDF:8.0/24

Right Out: -38.252 $\pm$ 50.781 χ^2 /NDF: 17.7/30

Left In: 27.098 $\pm$ 45.999 χ^2 /NDF:7.2/22

Left: 8.758 $\pm$ 33.298 χ^2 /NDF: 15.5/47

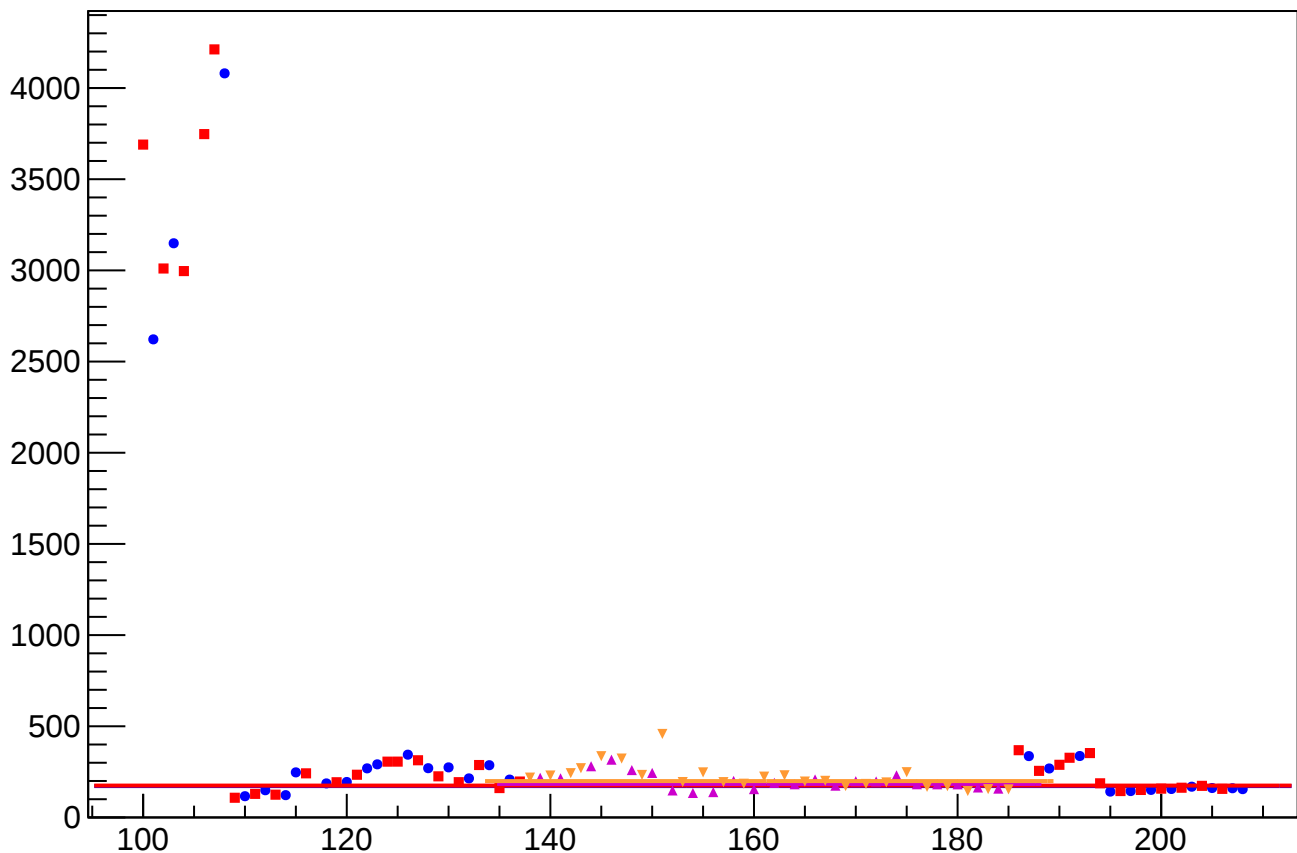
Right: -47.443 $\pm$ 35.486 χ^2 /NDF: 39.2/58

In: -11.417 $\pm$ 33.730 χ^2 /NDF:30.1/50

Out: -24.161 $\pm$ 34.983 χ^2 /NDF:25.8/55

All: -17.556 $\pm$ 24.282 χ^2 /NDF: 56.0/106

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 171.996+/-0.035 χ^2/NDF : 4505072.6/27

Left Out: 199.438+/-0.034 χ^2/NDF : 1877848.7/24

Right Out: 174.783+/-0.036 χ^2/NDF : 5334737.4/30

Left In: 183.805+/-0.033 χ^2/NDF : 1412869.6/22

Left: 191.246+/-0.024 χ^2/NDF : 3400676.1/47

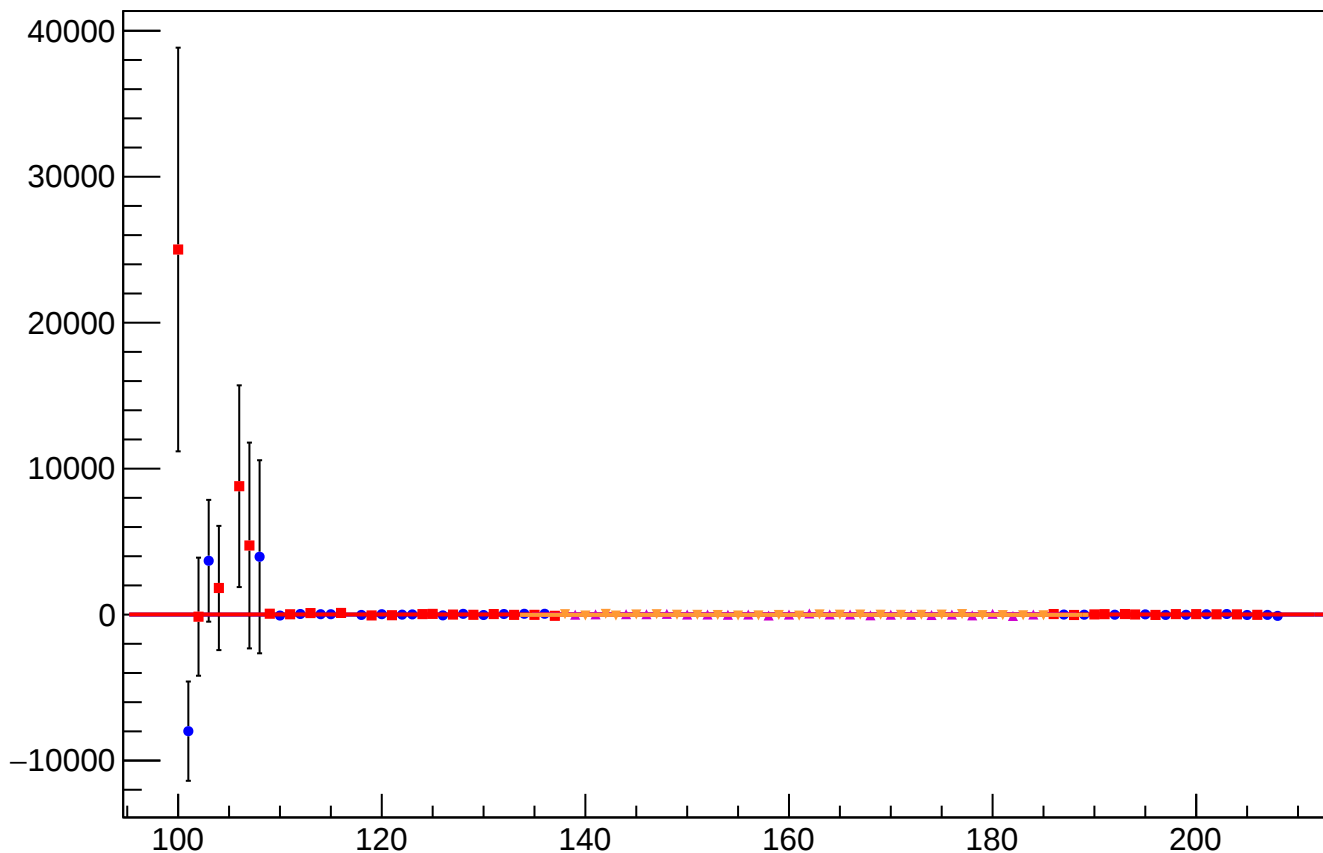
Right: 173.357+/-0.025 χ^2/NDF : 9842892.0/58

In: 178.346+/-0.024 χ^2/NDF : 5978882.8/50

Out: 187.737+/-0.025 χ^2/NDF : 7460298.6/55

All: 182.870+/-0.017 χ^2/NDF : 13513871.8/10

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -0.456 ± 7.645 $\chi^2/\text{NDF}: 29.5/27$

Left Out: -18.118 ± 6.704 $\chi^2/\text{NDF}: 21.7/24$

Right Out: 11.271 ± 7.624 $\chi^2/\text{NDF}: 29.6/30$

Left In: 1.267 ± 6.908 $\chi^2/\text{NDF}: 32.0/22$

Left: -8.716 ± 4.811 $\chi^2/\text{NDF}: 57.8/47$

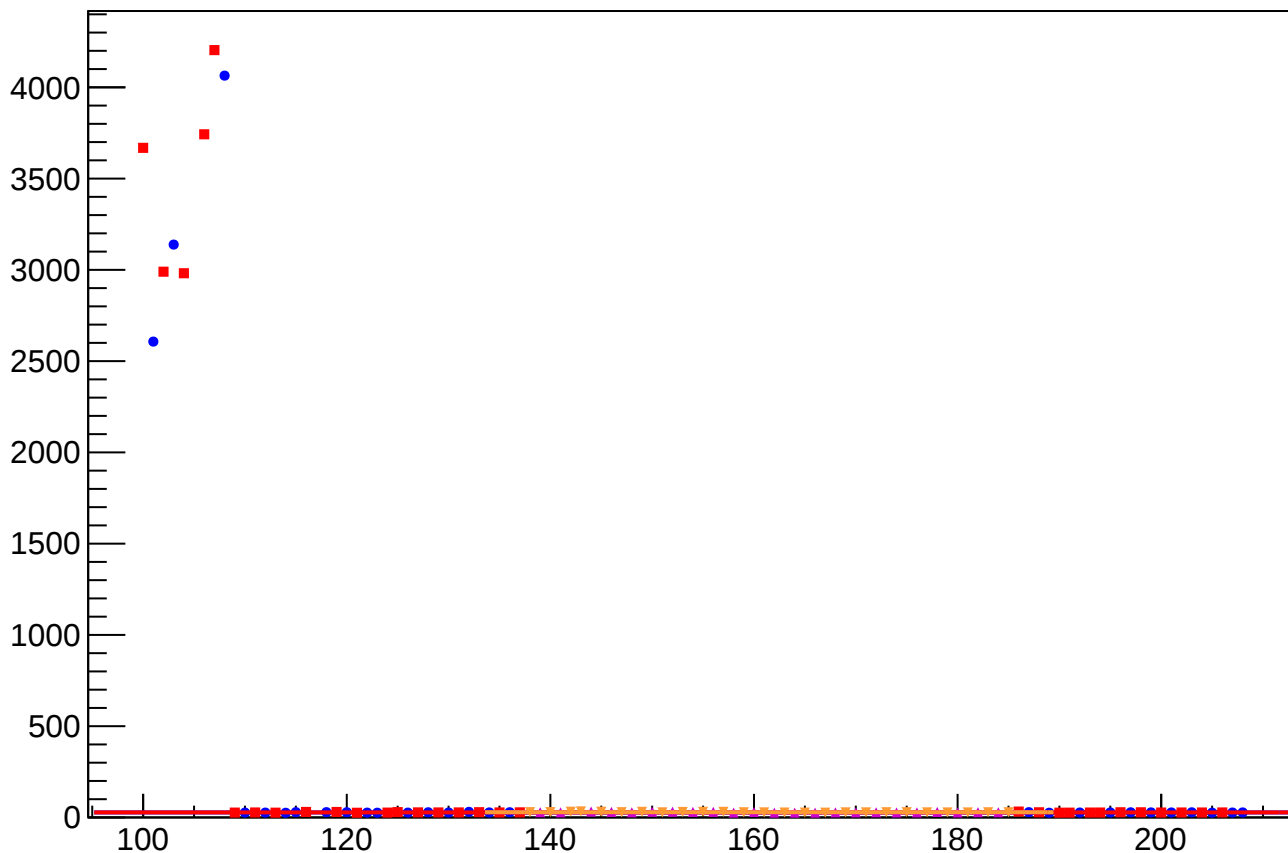
Right: 5.424 ± 5.398 $\chi^2/\text{NDF}: 60.3/58$

In: 0.493 ± 5.125 $\chi^2/\text{NDF}: 61.6/50$

Out: -5.303 ± 5.034 $\chi^2/\text{NDF}: 59.8/55$

All: -2.457 ± 3.592 $\chi^2/\text{NDF}: 122.0/106$

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 27.498 $\pm$ 0.005 χ^2 /NDF: 3040403.2/27

Left Out: 28.694 $\pm$ 0.005 χ^2 /NDF: 110466.9/24

Right Out: 27.594 $\pm$ 0.005 χ^2 /NDF: 3503272.8/30

Left In: 28.677 $\pm$ 0.005 χ^2 /NDF: 123814.4/22

Left: 28.685 $\pm$ 0.003 χ^2 /NDF: 234287.5/47

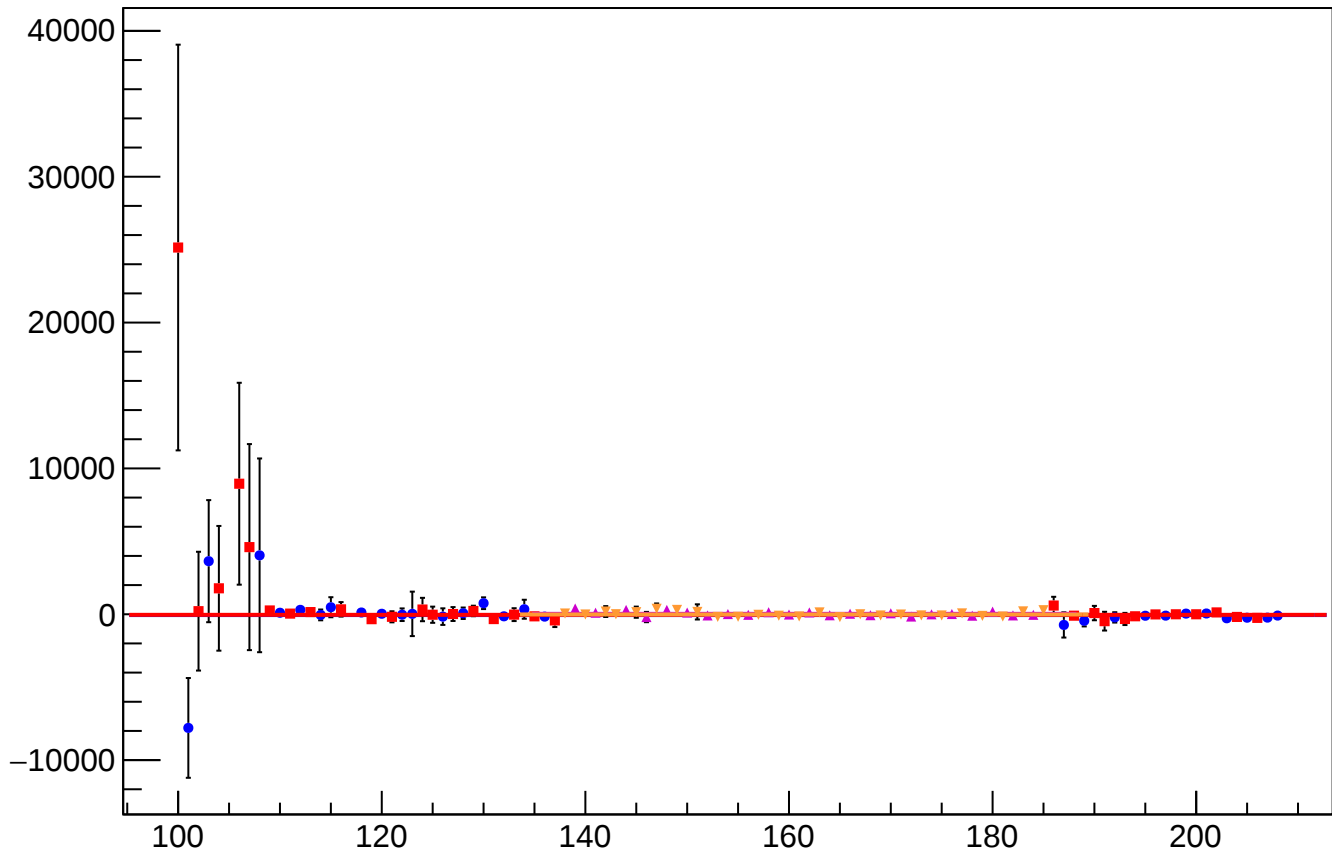
Right: 27.546 $\pm$ 0.004 χ^2 /NDF: 6543832.7/58

In: 28.147 $\pm$ 0.004 χ^2 /NDF: 3190391.0/50

Out: 28.214 $\pm$ 0.004 χ^2 /NDF: 3637226.4/55

All: 28.181 $\pm$ 0.003 χ^2 /NDF: 6827791.5/106

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -54.979 $\pm$ 49.455 χ^2 /NDF: 21.7/27

Left Out: -13.878 $\pm$ 48.155 χ^2 /NDF:8.8/24

Right Out: -39.604 $\pm$ 50.638 χ^2 /NDF: 18.3/30

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

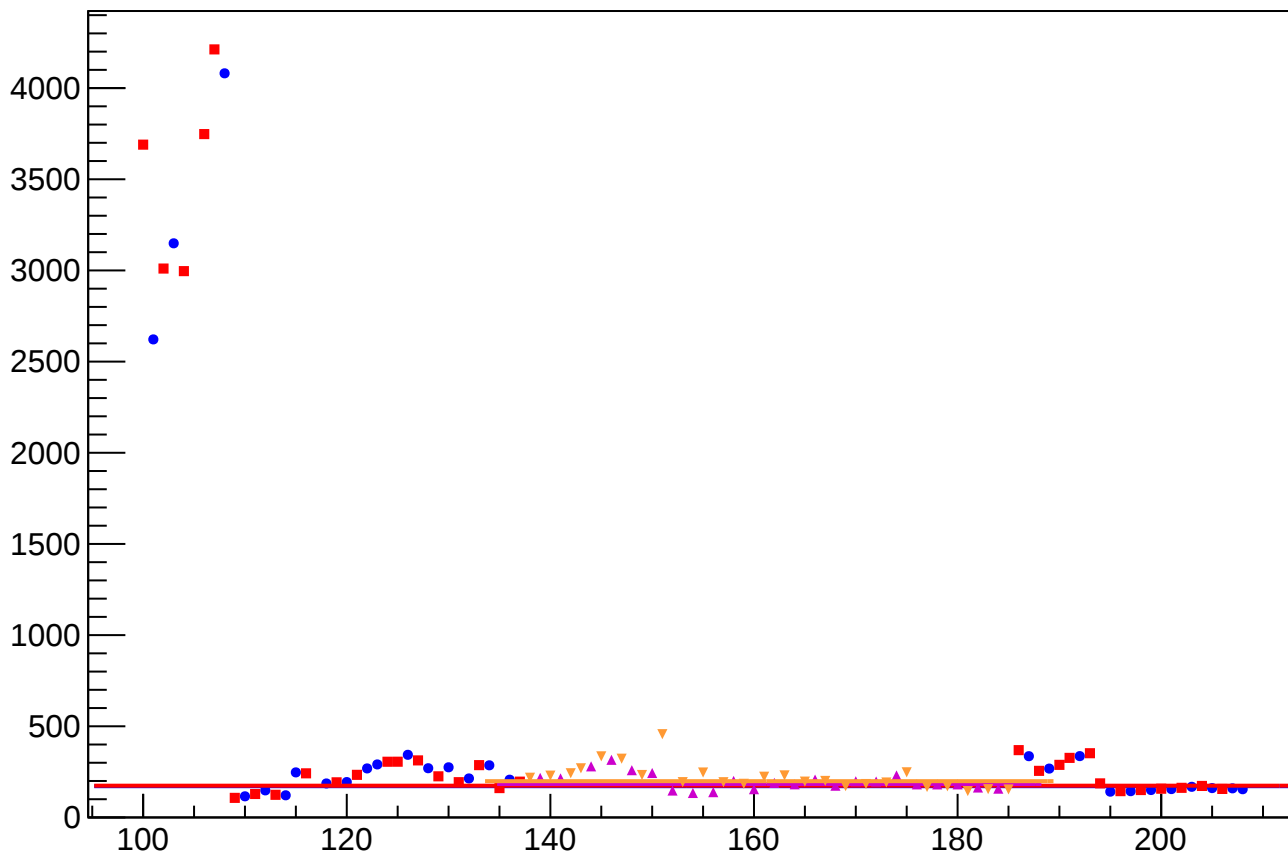
Right: -47.473 $\pm$ 35.381 χ^2 /NDF: 40.1/58

In: -10.789 $\pm$ 33.646 χ^2 /NDF:30.7/50

Out: -26.095 $\pm$ 34.896 χ^2 /NDF:27.2/55

All: -18.163 $\pm$ 24.221 χ^2 /NDF: 58.0/106

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 171.417 $\pm$ 0.035 χ^2 /NDF: 4518015.5/27

Left Out: 198.997 $\pm$ 0.034 χ^2 /NDF:1877636.0/24

Right Out: 174.231 $\pm$ 0.036 χ^2 /NDF: 5351913.5/30

Left In: 183.442 $\pm$ 0.032 χ^2 /NDF:1412341.8/22

Left: 190.847 $\pm$ 0.023 χ^2 /NDF: 3399302.2/47

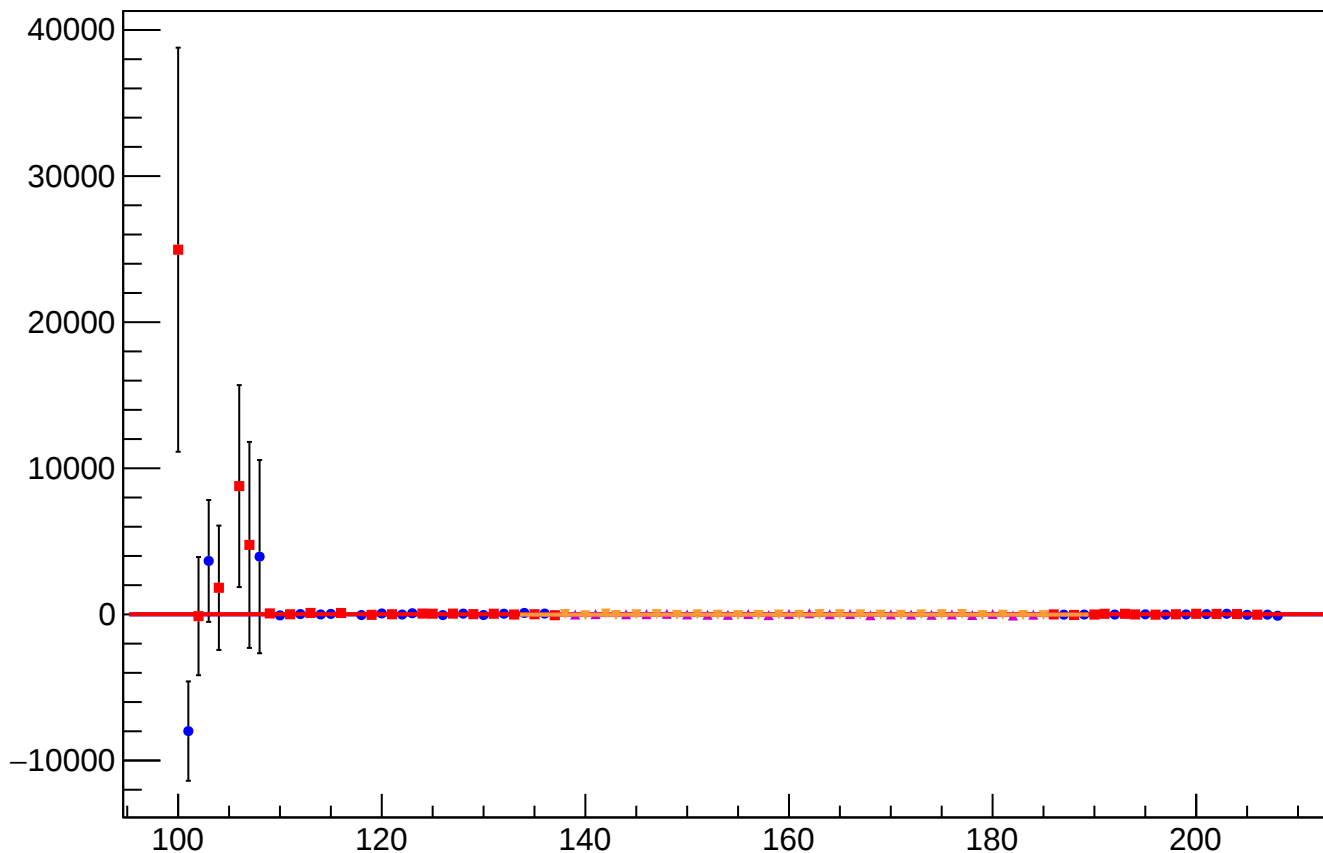
Right: 172.791 $\pm$ 0.025 χ^2 /NDF: 9873088.9/58

In: 177.876 $\pm$ 0.024 χ^2 /NDF:5993863.6/50

Out: 187.236 $\pm$ 0.025 χ^2 /NDF:7480754.1/55

All: 182.385 $\pm$ 0.017 χ^2 /NDF: 13549178.7/10

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -1.945 ± 7.621 χ^2/NDF : 34.1/27

Left Out: -15.829 ± 6.733 χ^2/NDF : 16.5/24

Right Out: 14.372 ± 7.614 χ^2/NDF : 26.1/30

Left In: -0.498 ± 6.937 χ^2/NDF : 26.1/22

Left: -8.392 ± 4.831 χ^2/NDF : 45.1/47

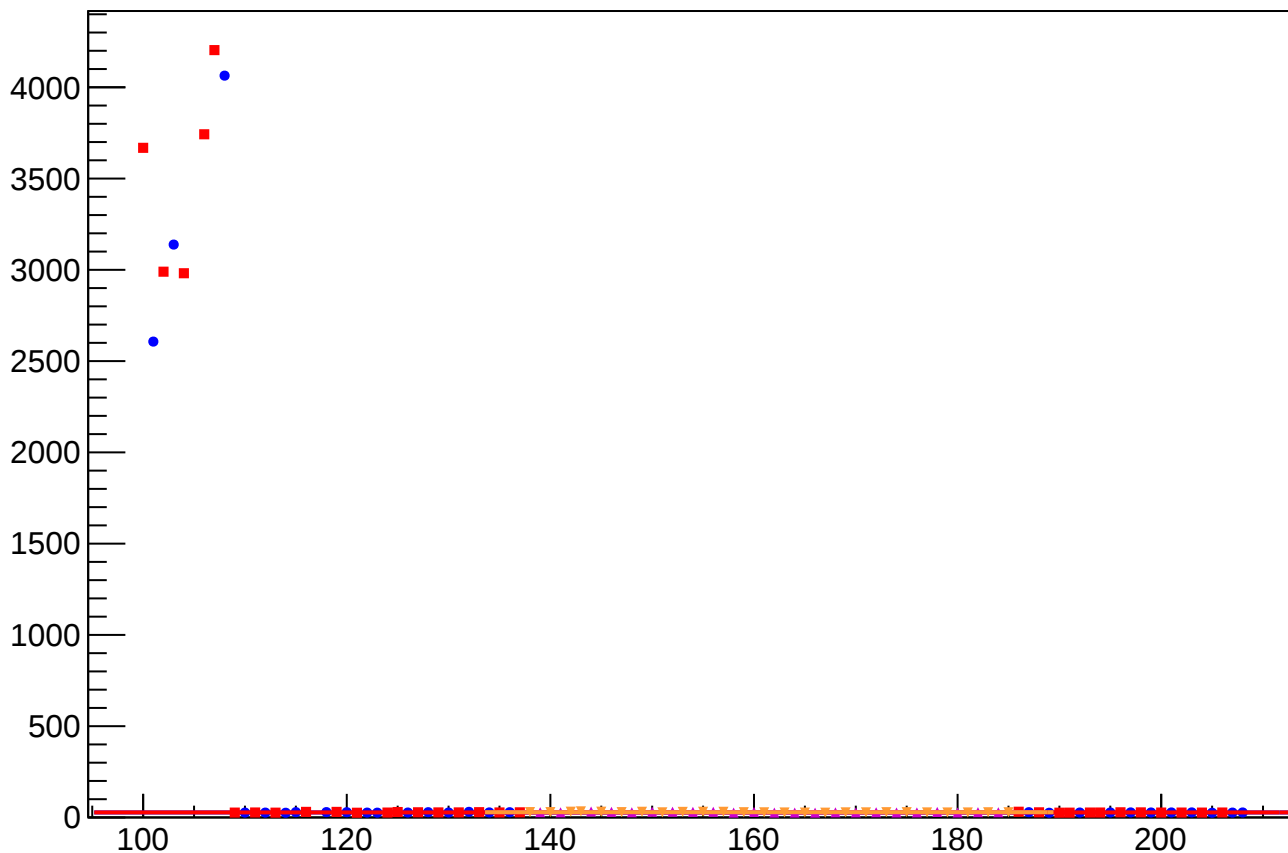
Right: 6.221 ± 5.387 χ^2/NDF : 62.5/58

In: -1.154 ± 5.130 χ^2/NDF : 60.2/50

Out: -2.576 ± 5.044 χ^2/NDF : 51.5/55

All: -1.877 ± 3.597 χ^2/NDF : 111.7/106

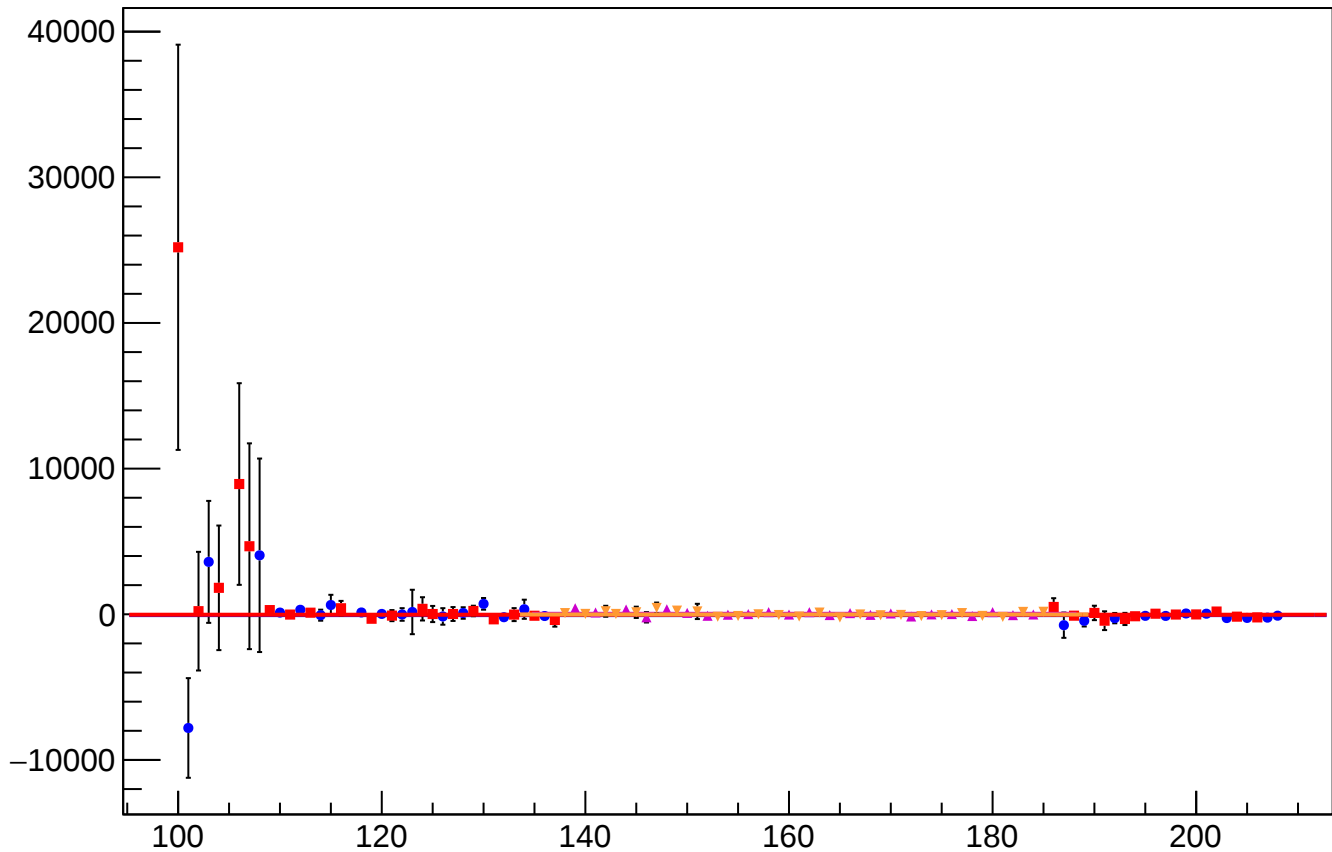
asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 27.407 $\pm$ 0.005 χ^2 /NDF: 3046425.5/27
 Left Out: 28.814 $\pm$ 0.005 χ^2 /NDF:122153.6/24
 Right Out: 27.558 $\pm$ 0.005 χ^2 /NDF: 3503535.0/30
 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: 27.482 $\pm$ 0.004 χ^2 /NDF: 6550351.3/58
 In: 28.167 $\pm$ 0.004 χ^2 /NDF:3211101.2/50
 Out: 28.263 $\pm$ 0.004 χ^2 /NDF:3656258.8/55
 All: 28.216 $\pm$ 0.003 χ^2 /NDF: 6867711.9/106

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -57.012 ± 49.795 $\chi^2/\text{NDF}: 22.0/27$

Left Out: -13.966 ± 48.735 $\chi^2/\text{NDF}: 8.1/24$

Right Out: -30.510 ± 51.022 $\chi^2/\text{NDF}: 17.3/30$

Left In: 31.477 ± 46.483 $\chi^2/\text{NDF}: 7.8/22$

Left: 9.830 ± 33.637 $\chi^2/\text{NDF}: 16.4/47$

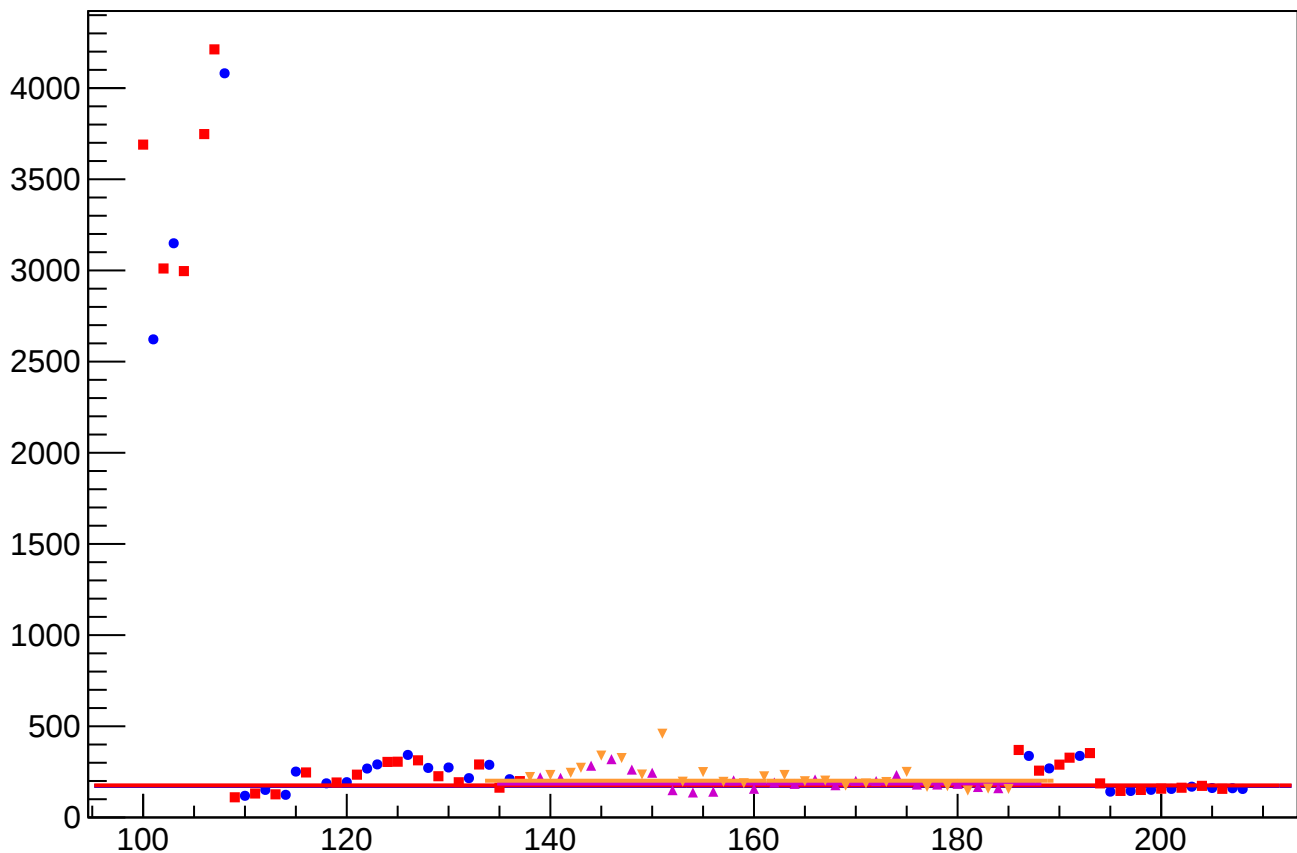
Right: -44.083 ± 35.636 $\chi^2/\text{NDF}: 39.5/58$

In: -9.727 ± 33.979 $\chi^2/\text{NDF}: 31.5/50$

Out: -21.859 ± 35.242 $\chi^2/\text{NDF}: 25.5/55$

All: -15.572 ± 24.461 $\chi^2/\text{NDF}: 57.1/106$

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 172.702 $\pm$ 0.035 χ^2 /NDF: 4486983.9/27

Left Out: 201.503 $\pm$ 0.034 χ^2 /NDF:1854905.1/24

Right Out: 175.787 $\pm$ 0.036 χ^2 /NDF: 5292633.5/30

Left In: 185.878 $\pm$ 0.033 χ^2 /NDF:1380877.6/22

Left: 193.321 $\pm$ 0.024 χ^2 /NDF: 3343425.2/47

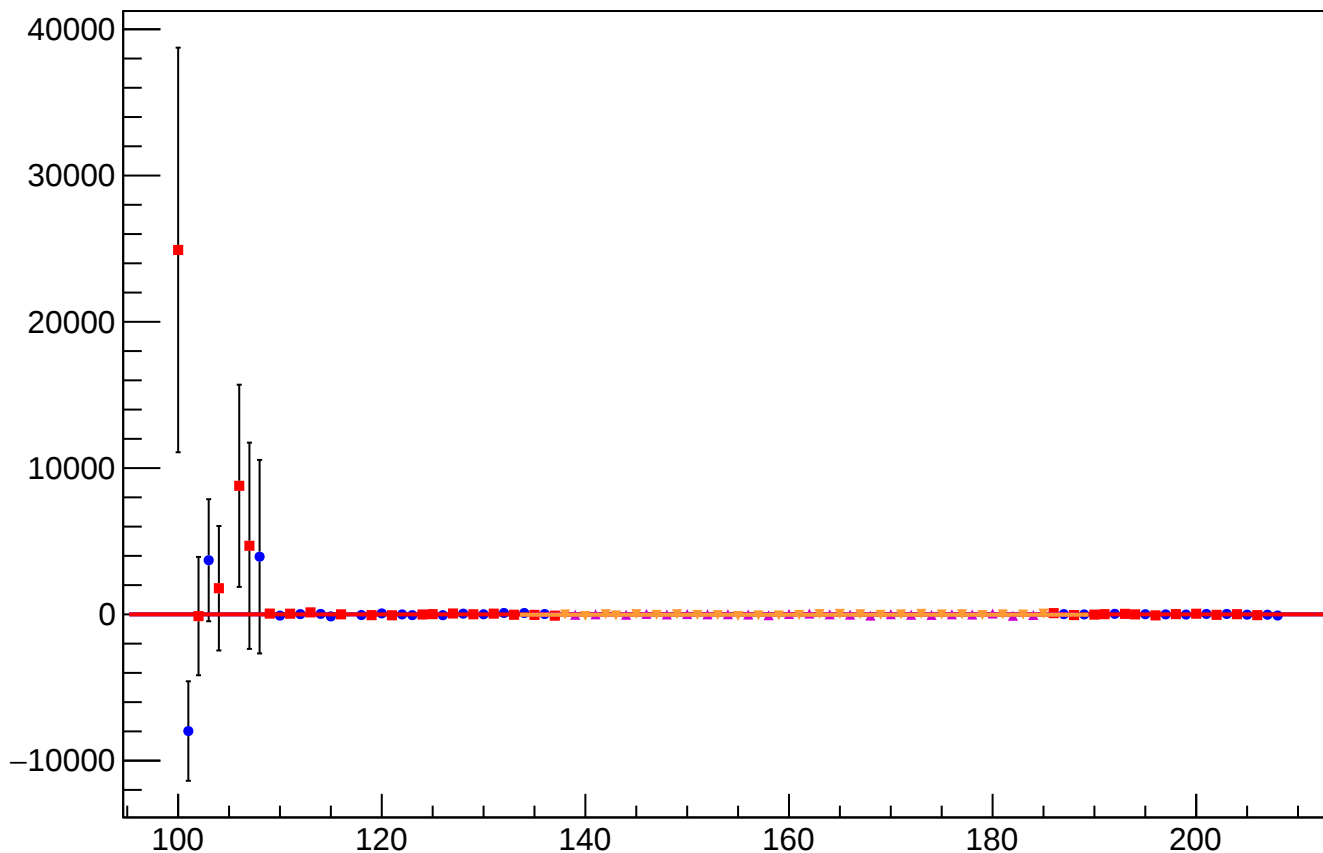
Right: 174.207 $\pm$ 0.025 χ^2 /NDF: 9783361.4/58

In: 179.743 $\pm$ 0.024 χ^2 /NDF:5942693.1/50

Out: 189.234 $\pm$ 0.025 χ^2 /NDF:7413217.8/55

All: 184.315 $\pm$ 0.017 χ^2 /NDF: 13431082.0/10

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 1.720 ± 9.299 $\chi^2/\text{NDF}: 26.7/27$

Left Out: -24.144 ± 8.076 $\chi^2/\text{NDF}: 24.9/24$

Right Out: 0.725 ± 9.277 $\chi^2/\text{NDF}: 34.3/30$

Left In: -5.924 ± 8.340 $\chi^2/\text{NDF}: 21.0/22$

Left: -15.326 ± 5.802 $\chi^2/\text{NDF}: 48.4/47$

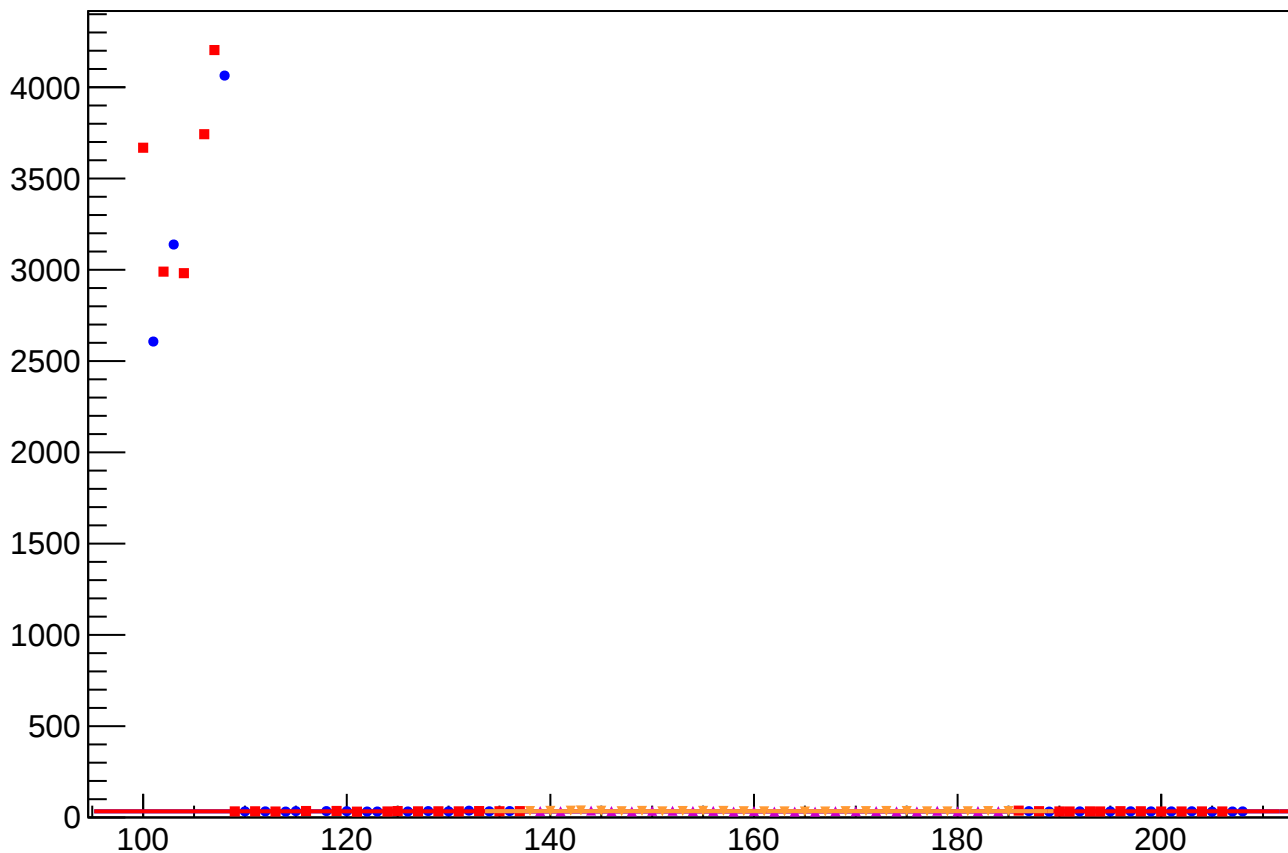
Right: 1.221 ± 6.568 $\chi^2/\text{NDF}: 61.0/58$

In: -2.516 ± 6.209 $\chi^2/\text{NDF}: 48.1/50$

Out: -13.421 ± 6.091 $\chi^2/\text{NDF}: 63.3/55$

All: -8.073 ± 4.348 $\chi^2/\text{NDF}: 113.0/106$

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 33.463+/-0.007 χ^2/NDF : 3018812.2/27

Left Out: 34.617+/-0.006 χ^2/NDF : 57868.4/24

Right Out: 33.623+/-0.007 χ^2/NDF : 3467526.5/30

Left In: 34.682+/-0.006 χ^2/NDF : 59834.3/22

Left: 34.649+/-0.004 χ^2/NDF : 117764.0/47

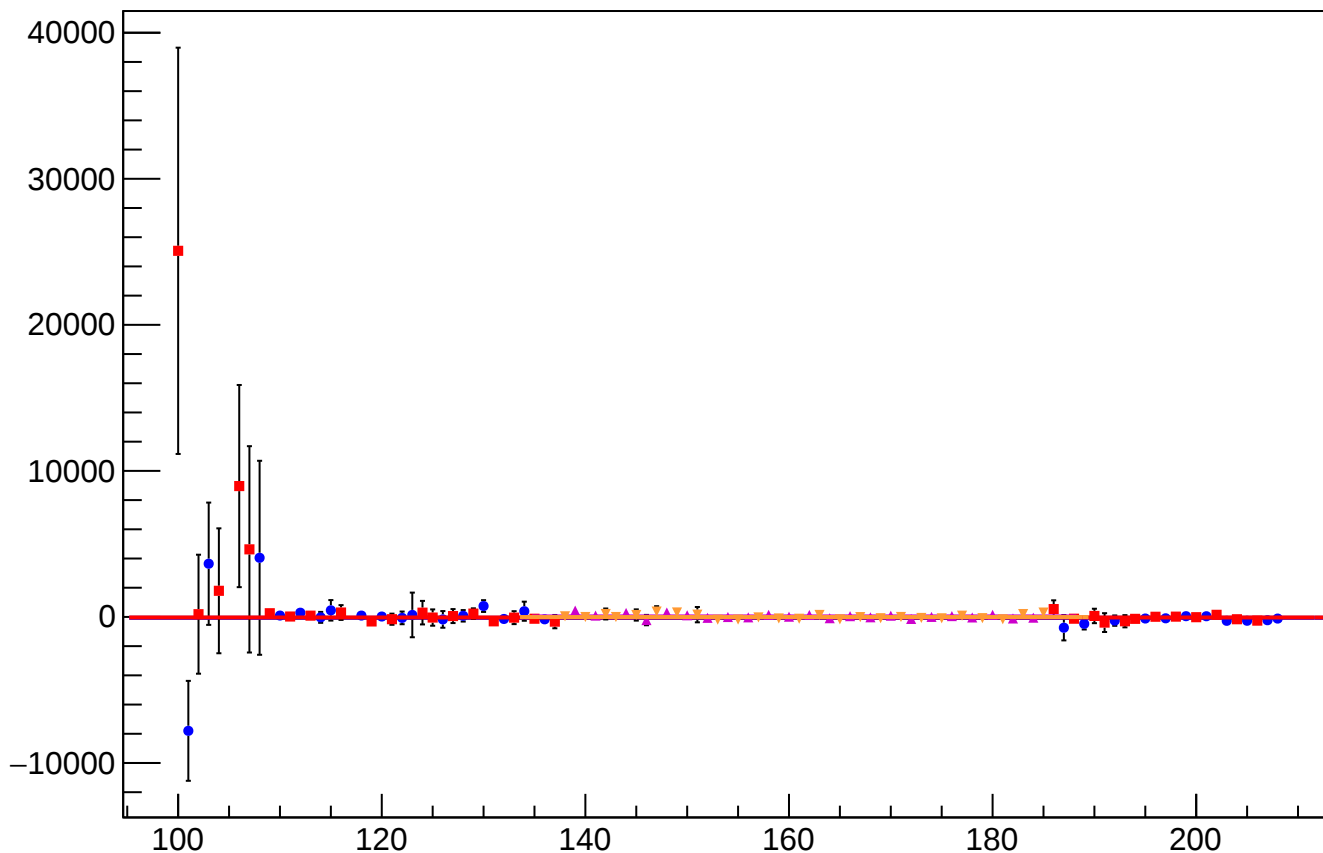
Right: 33.543+/-0.005 χ^2/NDF : 6486633.5/58

In: 34.139+/-0.004 χ^2/NDF : 3097679.6/50

Out: 34.189+/-0.004 χ^2/NDF : 3538477.7/55

All: 34.164+/-0.003 χ^2/NDF : 6636223.5/106

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -61.280 $\pm$ 49.649 χ^2 /NDF: 21.6/27

Left Out: -7.558 $\pm$ 48.662 χ^2 /NDF:8.8/24

Right Out: -37.038 $\pm$ 50.821 χ^2 /NDF: 16.2/30

Left In: 34.977 $\pm$ 46.421 χ^2 /NDF:7.1/22

Left: 14.712 $\pm$ 33.589 χ^2 /NDF: 16.3/47

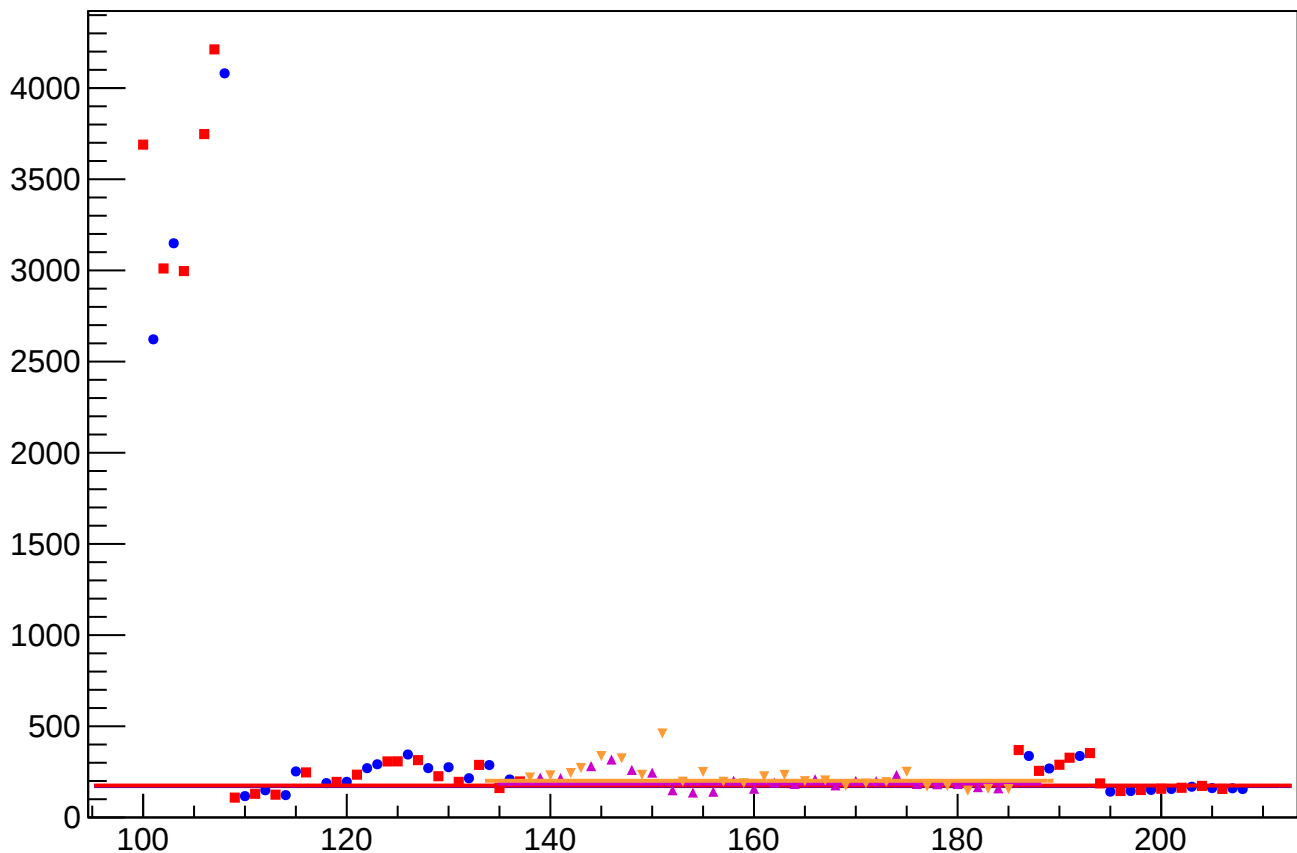
Right: -49.442 $\pm$ 35.514 χ^2 /NDF: 38.0/58

In: -9.921 $\pm$ 33.908 χ^2 /NDF:30.8/50

Out: -21.658 $\pm$ 35.148 χ^2 /NDF:25.2/55

All: -15.579 $\pm$ 24.403 χ^2 /NDF: 56.0/106

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 172.101 $\pm$ 0.035 χ^2 /NDF: 4515596.9/27

Left Out: 201.198 $\pm$ 0.034 χ^2 /NDF:1848437.4/24

Right Out: 174.910 $\pm$ 0.036 χ^2 /NDF: 5341454.5/30

Left In: 185.627 $\pm$ 0.033 χ^2 /NDF:1371411.2/22

Left: 193.046 $\pm$ 0.024 χ^2 /NDF: 3327061.1/47

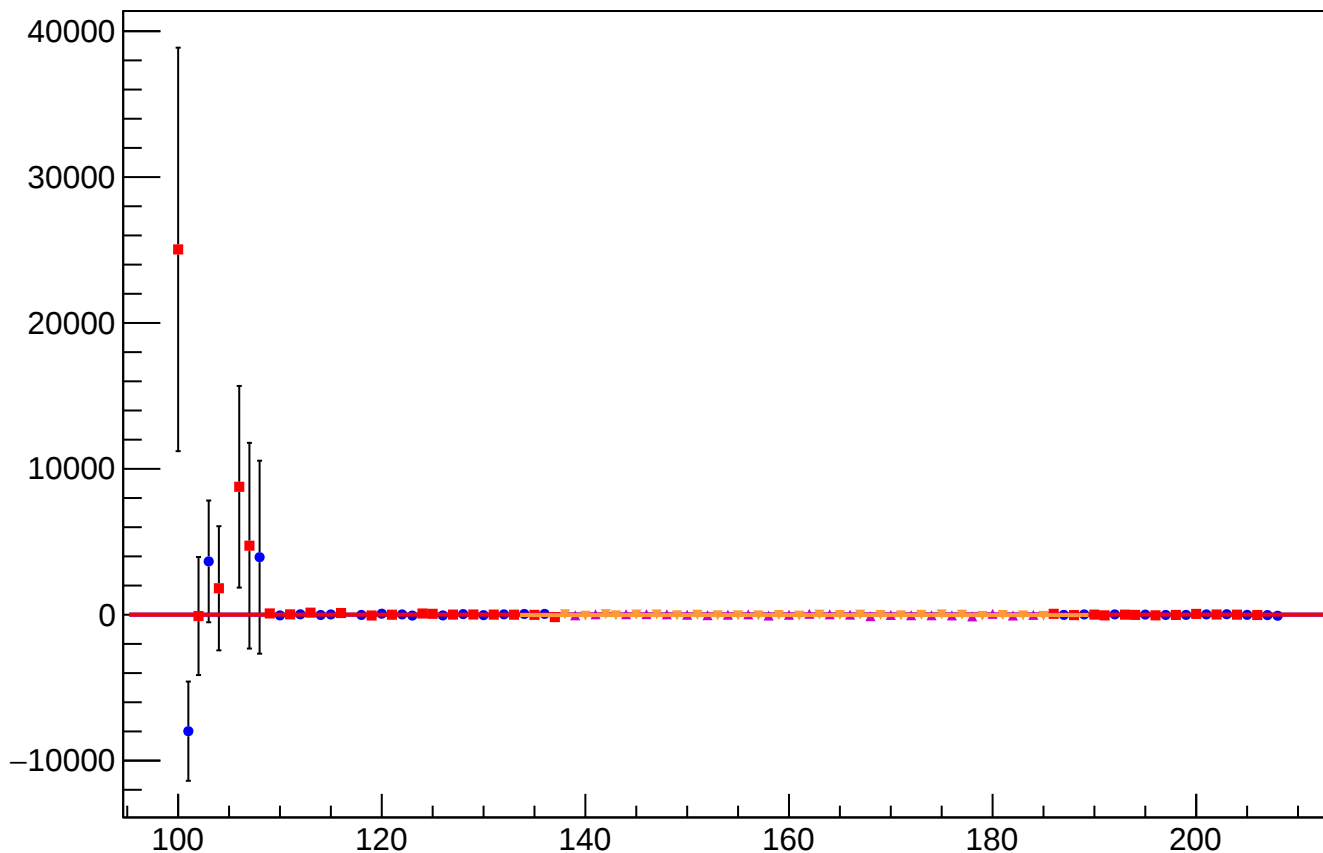
Right: 173.472 $\pm$ 0.025 χ^2 /NDF: 9860177.3/58

In: 179.318 $\pm$ 0.024 χ^2 /NDF:5966218.8/50

Out: 188.624 $\pm$ 0.025 χ^2 /NDF:7469078.7/55

All: 183.804 $\pm$ 0.017 χ^2 /NDF: 13507918.7/10

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 5.106+/-8.420 χ^2/NDF : 21.8/27

Left Out: -23.320+/-7.352 χ^2/NDF :18.3/24

Right Out: 7.662+/-8.403 χ^2/NDF : 36.9/30

Left In: -6.386+/-7.577 χ^2/NDF :38.7/22

Left: -15.108+/-5.276 χ^2/NDF : 59.6/47

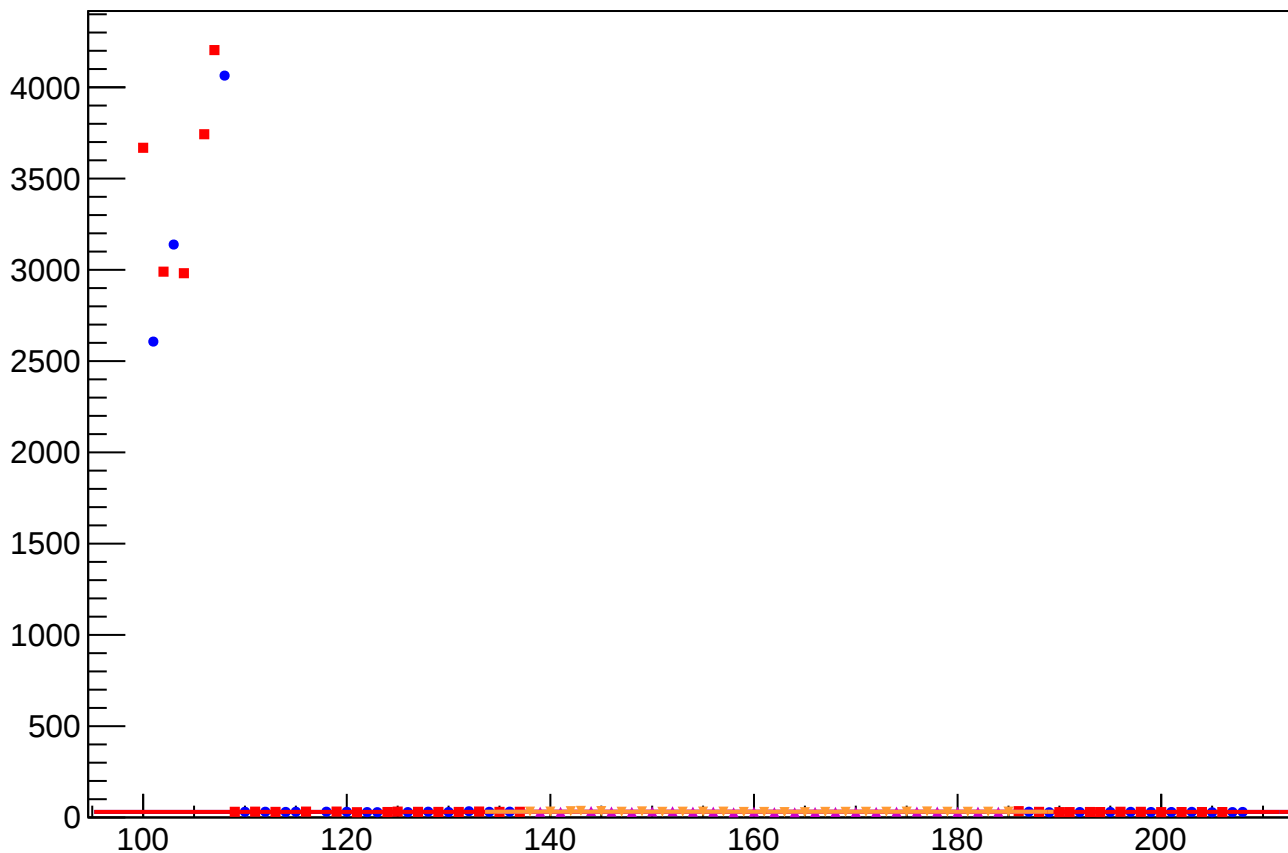
Right: 6.386+/-5.948 χ^2/NDF : 58.8/58

In: -1.244+/-5.632 χ^2/NDF :61.6/50

Out: -9.887+/-5.533 χ^2/NDF :62.9/55

All: -5.642+/-3.947 χ^2/NDF : 125.7/106

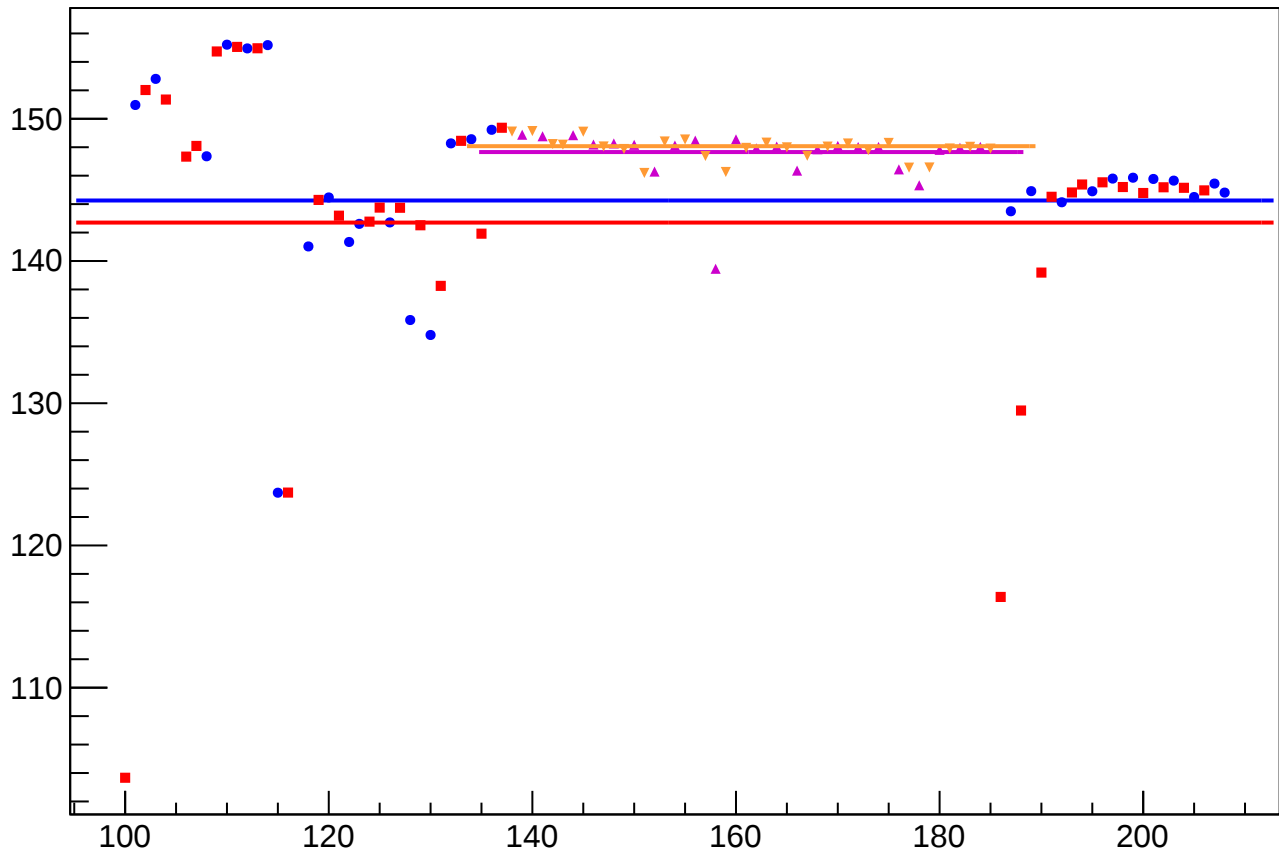
asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 30.289+/-0.006 χ^2 /NDF: 3036585.6/27
 Left Out: 31.488+/-0.005 χ^2 /NDF:81938.2/24
 Right Out: 30.431+/-0.006 χ^2 /NDF: 3483937.3/30
 Left In: 31.475+/-0.005 χ^2 /NDF:87797.5/22

Left: 31.482+/-0.004 χ^2 /NDF: 169738.8/47
 Right: 30.360+/-0.004 χ^2 /NDF: 6520809.5/58
 In: 30.944+/-0.004 χ^2 /NDF:3146341.4/50
 Out: 31.030+/-0.004 χ^2 /NDF:3583818.5/55
 All: 30.988+/-0.003 χ^2 /NDF: 6730395.0/106

yield_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: 144.255+/-0.000 χ^2/NDF : 3487320924.7/27

Left Out: 148.074+/-0.000 χ^2/NDF : 65673678.9/24

Right Out: 142.702+/-0.000 χ^2/NDF : 7407168456.3/30

Left In: 147.660+/-0.000 χ^2/NDF : 343892338.9/22

Left: 147.875+/-0.000 χ^2/NDF : 417177881.5/47

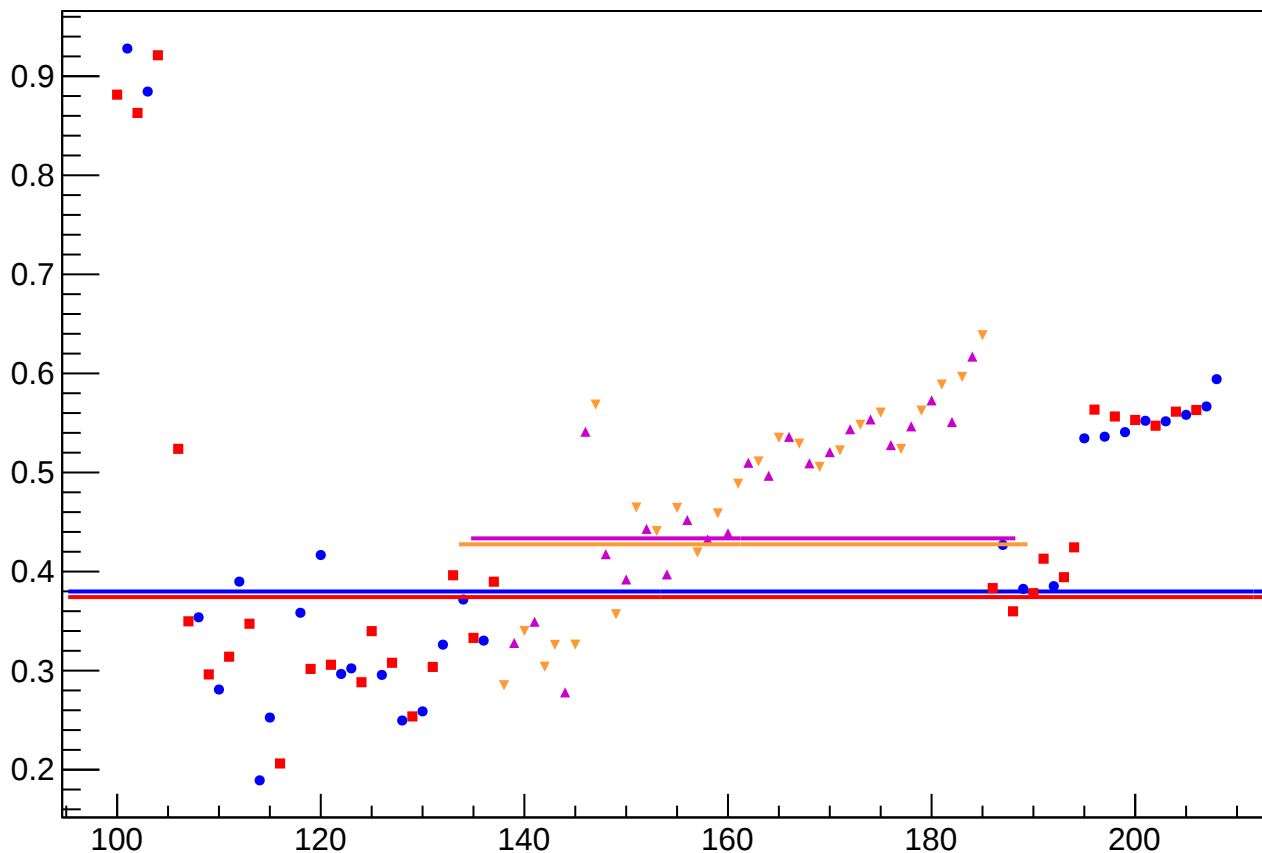
Right: 143.443+/-0.000 χ^2/NDF : 11001143592.2/58

In: 145.970+/-0.000 χ^2/NDF : 4325498698.4/50

Out: 145.386+/-0.000 χ^2/NDF : 8809969128.4/55

All: 145.666+/-0.000 χ^2/NDF : 13165762281.0

yield_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 0.380 $\pm$ 0.000 χ^2 /NDF: 2881670.0/27

Left Out: 0.428 $\pm$ 0.000 χ^2 /NDF:1892802.8/24

Right Out: 0.374 $\pm$ 0.000 χ^2 /NDF: 2529702.3/30

Left In: 0.434 $\pm$ 0.000 χ^2 /NDF:1479367.0/22

Left: 0.430 $\pm$ 0.000 χ^2 /NDF: 3375366.2/47

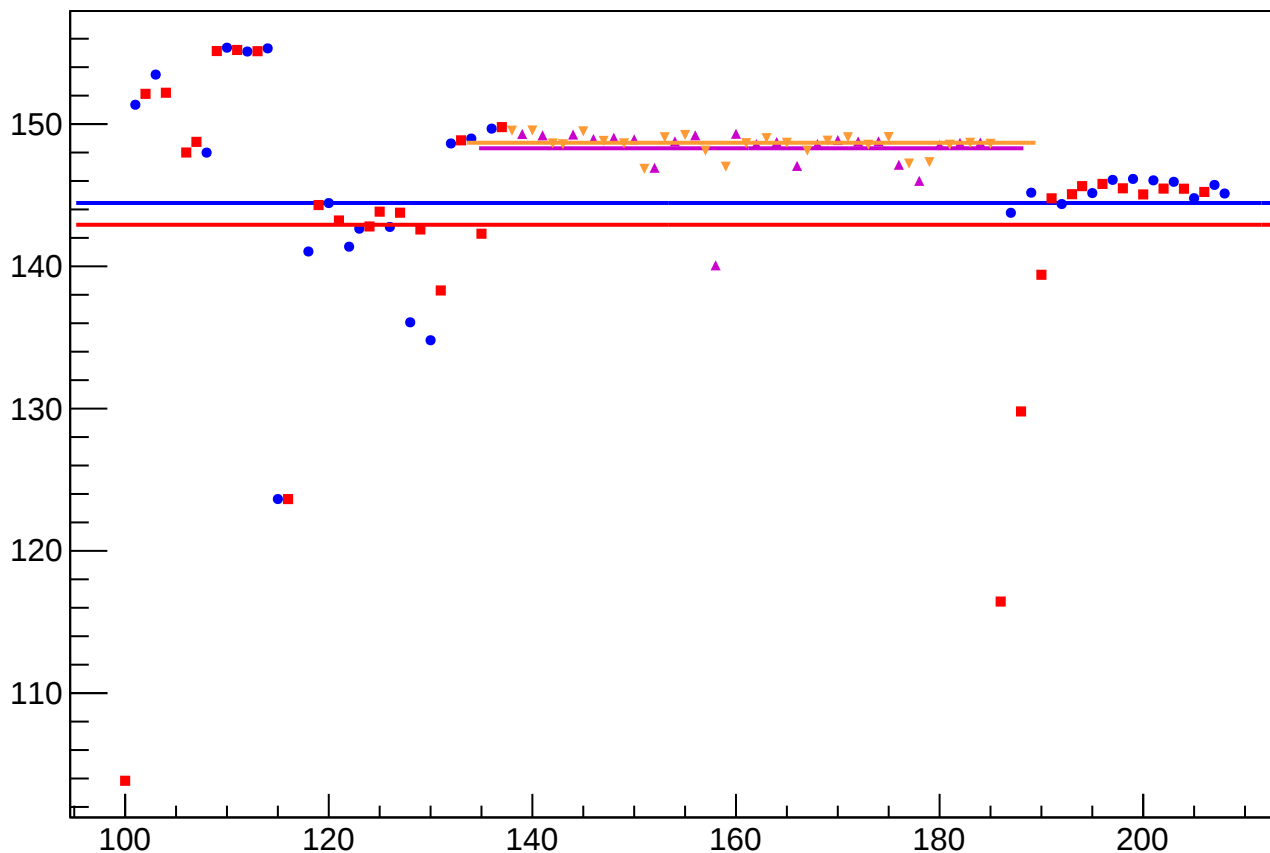
Right: 0.377 $\pm$ 0.000 χ^2 /NDF: 5414202.0/58

In: 0.407 $\pm$ 0.000 χ^2 /NDF:4606039.1/50

Out: 0.401 $\pm$ 0.000 χ^2 /NDF:4685613.7/55

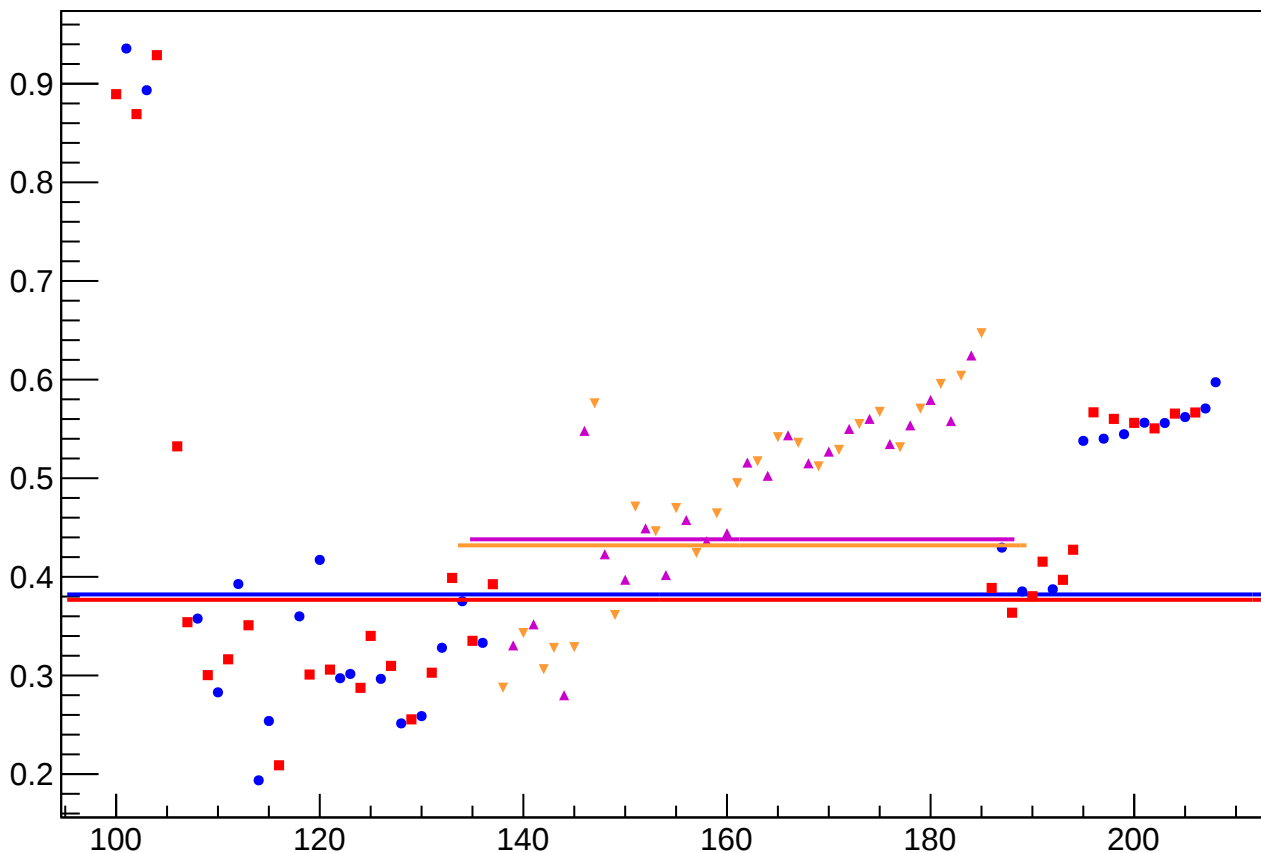
All: 0.404 $\pm$ 0.000 χ^2 /NDF: 9298128.7/106

yield_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: 144.454+/-0.000	χ^2/NDF : 3536155640.1/27	Left: 148.500+/-0.000	χ^2/NDF : 391414535.1/47
Left Out: 148.687+/-0.000	χ^2/NDF : 52285197.5/24	Right: 143.653+/-0.000	χ^2/NDF : 10994401901.3/58
Right Out: 142.922+/-0.000	χ^2/NDF : 7355632171.4/30	In: 146.381+/-0.000	χ^2/NDF : 4487646032.1/50
Left In: 148.298+/-0.000	χ^2/NDF : 332527463.6/22	Out: 145.791+/-0.000	χ^2/NDF : 8921584173.7/55
		All: 146.074+/-0.000	χ^2/NDF : 13439662784.0

yield_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 0.382 $\pm$ 0.000 χ^2 /NDF: 2889366.3/27

Left Out: 0.432 $\pm$ 0.000 χ^2 /NDF:1924979.0/24

Right Out: 0.377 $\pm$ 0.000 χ^2 /NDF: 2533608.0/30

Left In: 0.438 $\pm$ 0.000 χ^2 /NDF:1504635.6/22

Left: 0.435 $\pm$ 0.000 χ^2 /NDF: 3432903.3/47

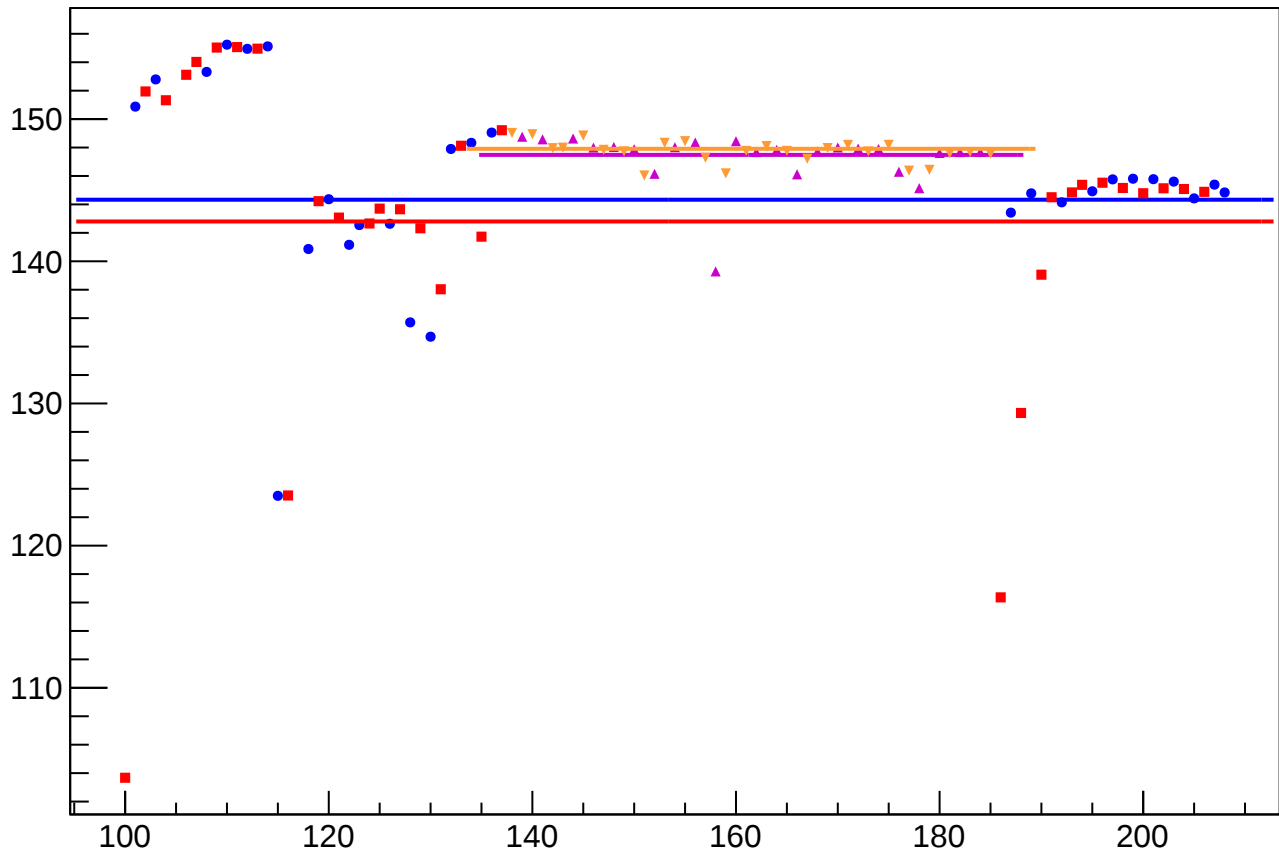
Right: 0.379 $\pm$ 0.000 χ^2 /NDF: 5425563.8/58

In: 0.410 $\pm$ 0.000 χ^2 /NDF:4655839.5/50

Out: 0.404 $\pm$ 0.000 χ^2 /NDF:4736123.5/55

All: 0.407 $\pm$ 0.000 χ^2 /NDF: 9398240.4/106

yield_bcm_an_us_mean vs Slug, Sign Corrected



Right In: 144.331 $\pm$ 0.000 χ^2 /NDF: 3693273946.5/27

Left Out: 147.912 $\pm$ 0.000 χ^2 /NDF: 64463426.1/24

Right Out: 142.800 $\pm$ 0.000 χ^2 /NDF: 7784278939.4/30

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

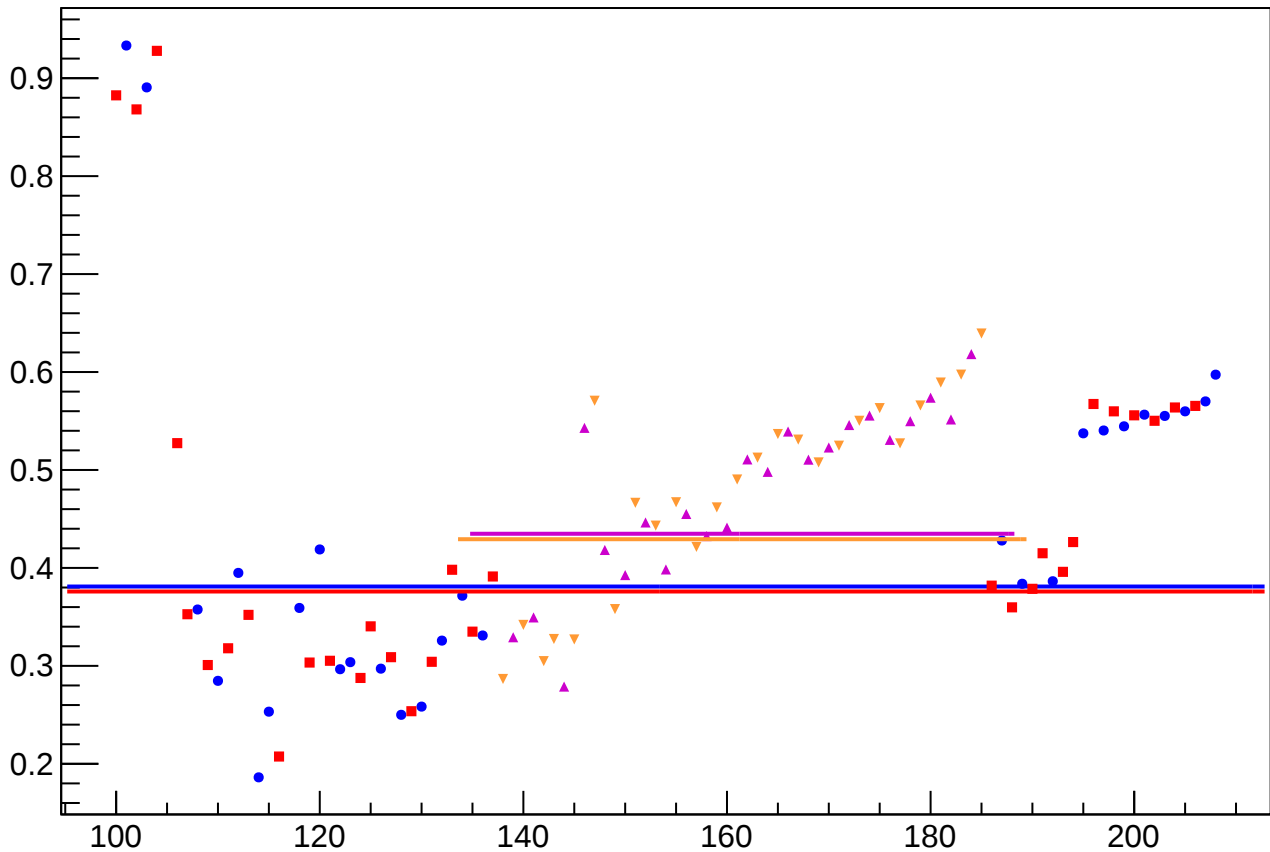
Right: 143.531 $\pm$ 0.000 χ^2 /NDF: 11580427658.6/58

In: 145.920 $\pm$ 0.000 χ^2 /NDF: 4456497115.0/50

Out: 145.355 $\pm$ 0.000 χ^2 /NDF: 9049264670.8/55

All: 145.626 $\pm$ 0.000 χ^2 /NDF: 13533845245.0

yield_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 0.381+/-0.000 χ^2/NDF : 2915699.0/27

Left Out: 0.429+/-0.000 χ^2/NDF :1891709.3/24

Right Out: 0.376+/-0.000 χ^2/NDF : 2534238.3/30

Left In: 0.435+/-0.000 χ^2/NDF :1485915.1/22

Left: 0.432+/-0.000 χ^2/NDF : 3380372.0/47

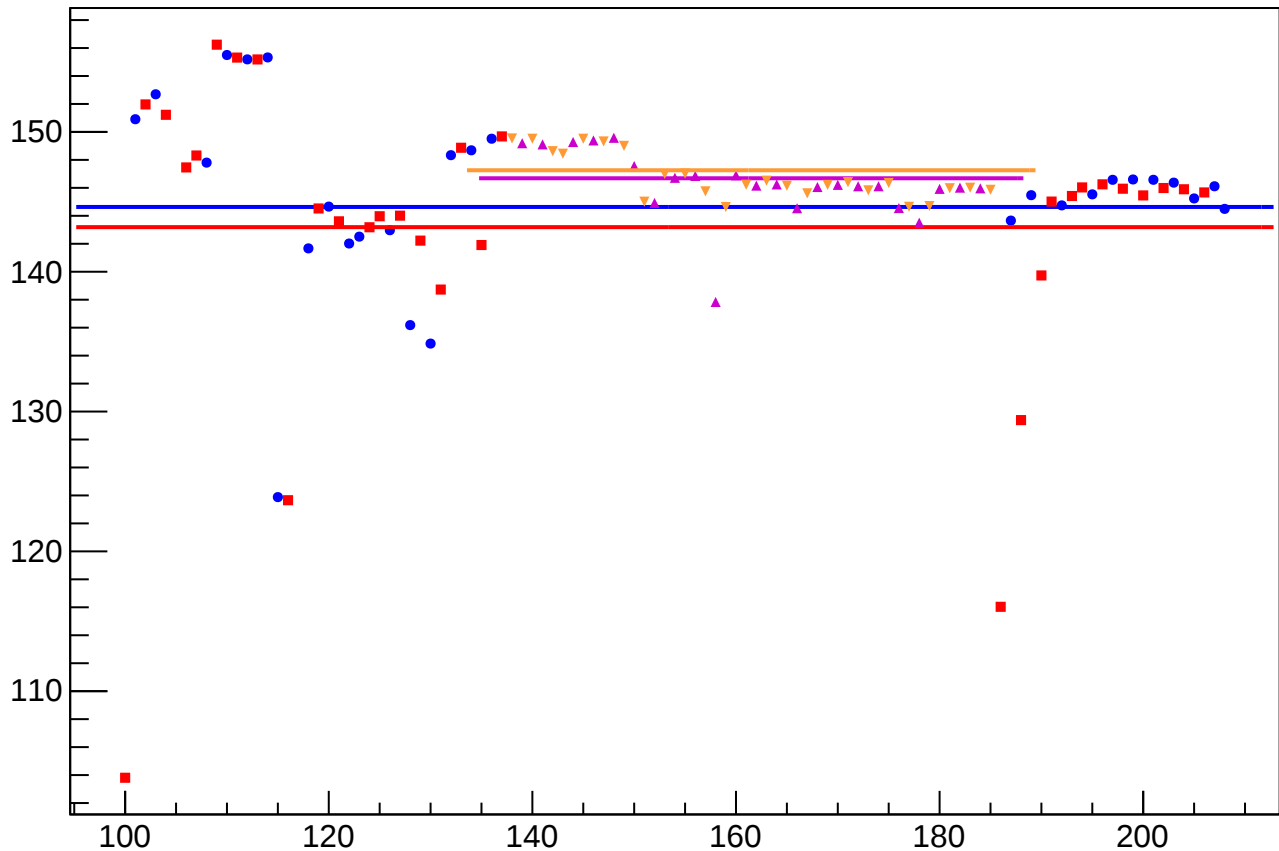
Right: 0.378+/-0.000 χ^2/NDF : 5452207.2/58

In: 0.408+/-0.000 χ^2/NDF :4647242.5/50

Out: 0.403+/-0.000 χ^2/NDF :4687771.5/55

All: 0.405+/-0.000 χ^2/NDF : 9340443.5/106

yield_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: 144.634 ± 0.000 $\chi^2/\text{NDF}: 3219145833.8/27$

Left Out: 147.257 ± 0.000 $\chi^2/\text{NDF}: 261906278.3/24$

Right Out: 143.189 ± 0.000 $\chi^2/\text{NDF}: 7121579127.8/30$

Left In: 146.685 ± 0.000 $\chi^2/\text{NDF}: 554922388.0/22$

Left: 146.981 ± 0.000 $\chi^2/\text{NDF}: 830580031.2/47$

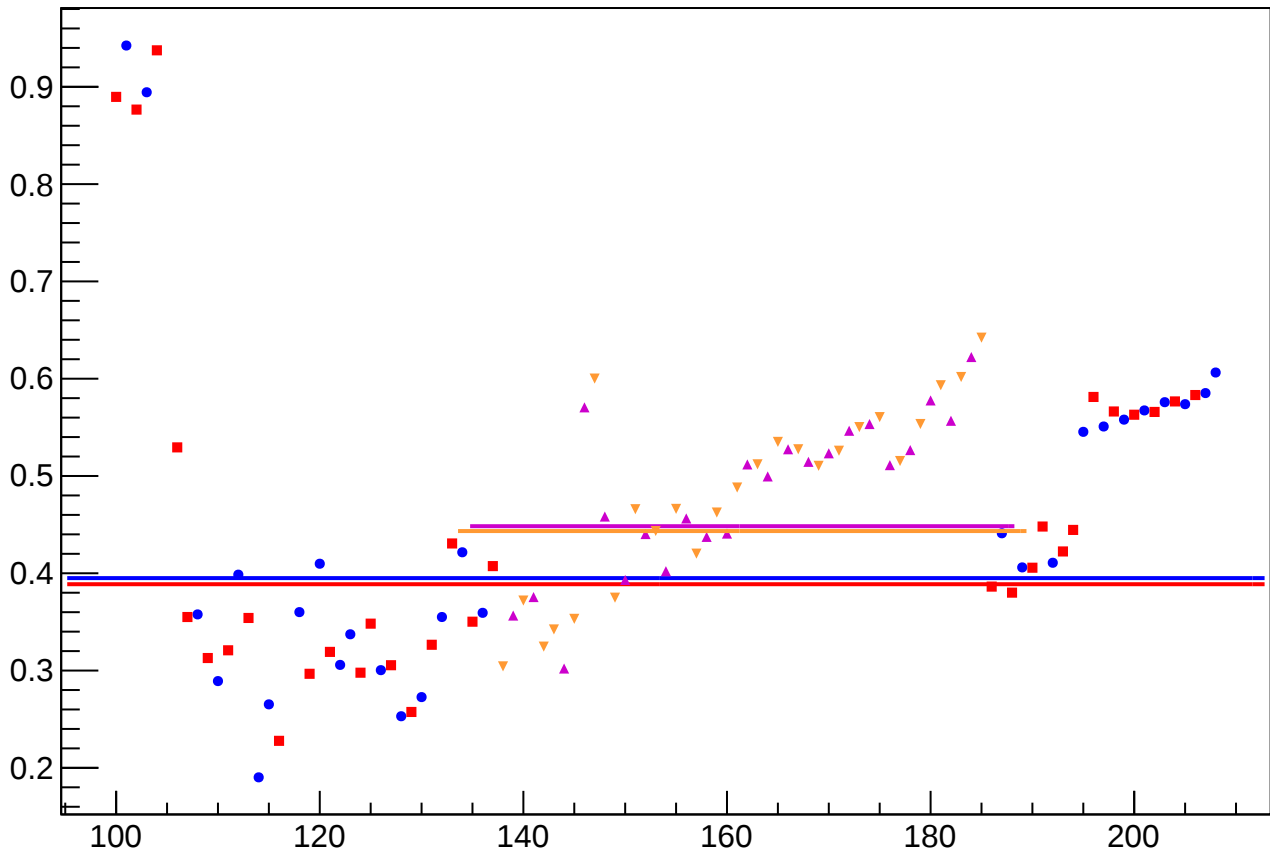
Right: 143.878 ± 0.000 $\chi^2/\text{NDF}: 10425983907.3/58$

In: 145.678 ± 0.000 $\chi^2/\text{NDF}: 3941469964.0/50$

Out: 145.237 ± 0.000 $\chi^2/\text{NDF}: 8098001945.5/55$

All: 145.448 ± 0.000 $\chi^2/\text{NDF}: 12055617877.0/100$

yield_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 0.395 $\pm$ 0.000 χ^2 /NDF: 2834911.0/27

Left Out: 0.443 $\pm$ 0.000 χ^2 /NDF:1480479.3/24

Right Out: 0.389 $\pm$ 0.000 χ^2 /NDF: 2471789.0/30

Left In: 0.448 $\pm$ 0.000 χ^2 /NDF:1120261.8/22

Left: 0.446 $\pm$ 0.000 χ^2 /NDF: 2602838.0/47

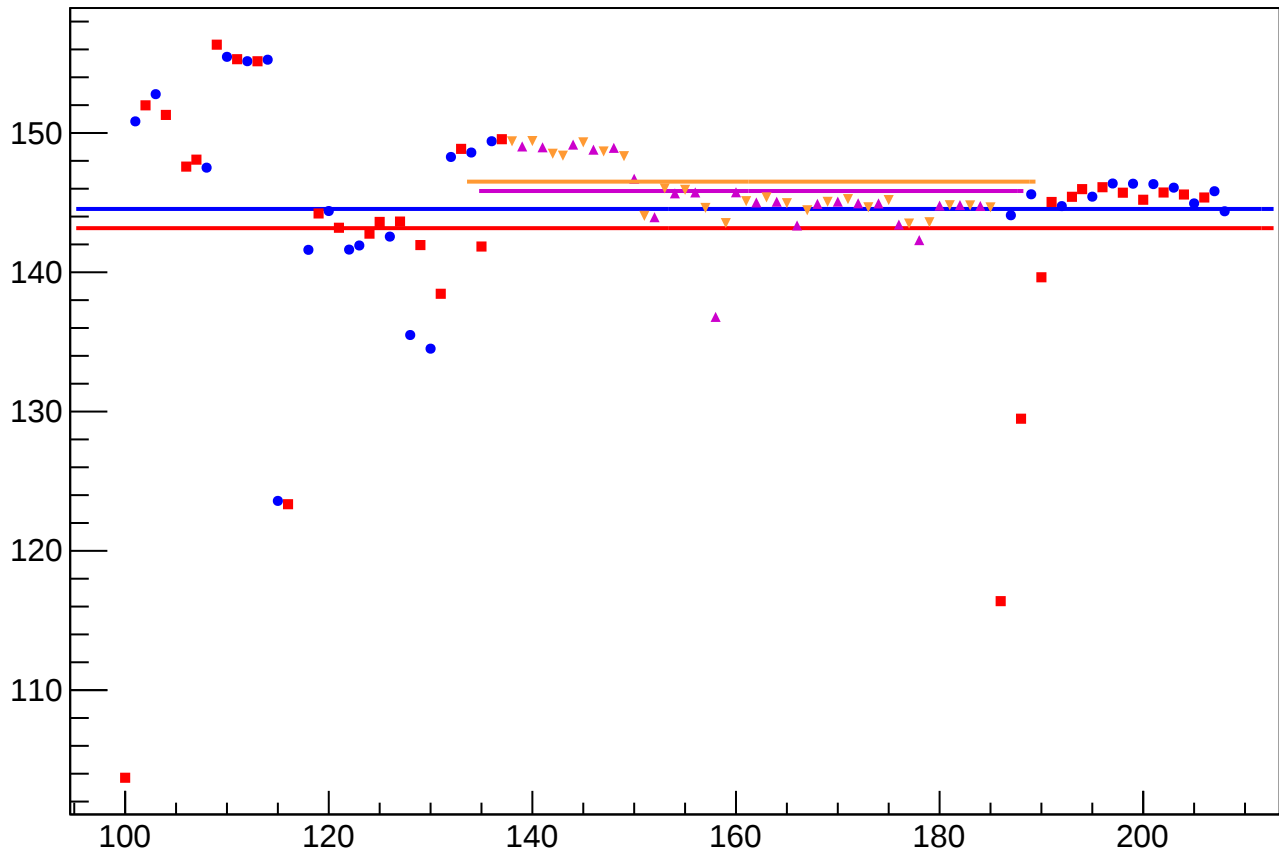
Right: 0.392 $\pm$ 0.000 χ^2 /NDF: 5309917.8/58

In: 0.422 $\pm$ 0.000 χ^2 /NDF:4181729.8/50

Out: 0.416 $\pm$ 0.000 χ^2 /NDF:4210045.3/55

All: 0.419 $\pm$ 0.000 χ^2 /NDF: 8397646.2/106

yield_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: 144.547 ± 0.000 $\chi^2/\text{NDF}: 3328951922.7/27$

Left Out: 146.508 ± 0.000 $\chi^2/\text{NDF}: 401248837.9/24$

Right Out: 143.167 ± 0.000 $\chi^2/\text{NDF}: 7075428558.8/30$

Left In: 145.834 ± 0.000 $\chi^2/\text{NDF}: 690172810.0/22$

Left: 146.184 ± 0.000 $\chi^2/\text{NDF}: 1110403123.5/47$

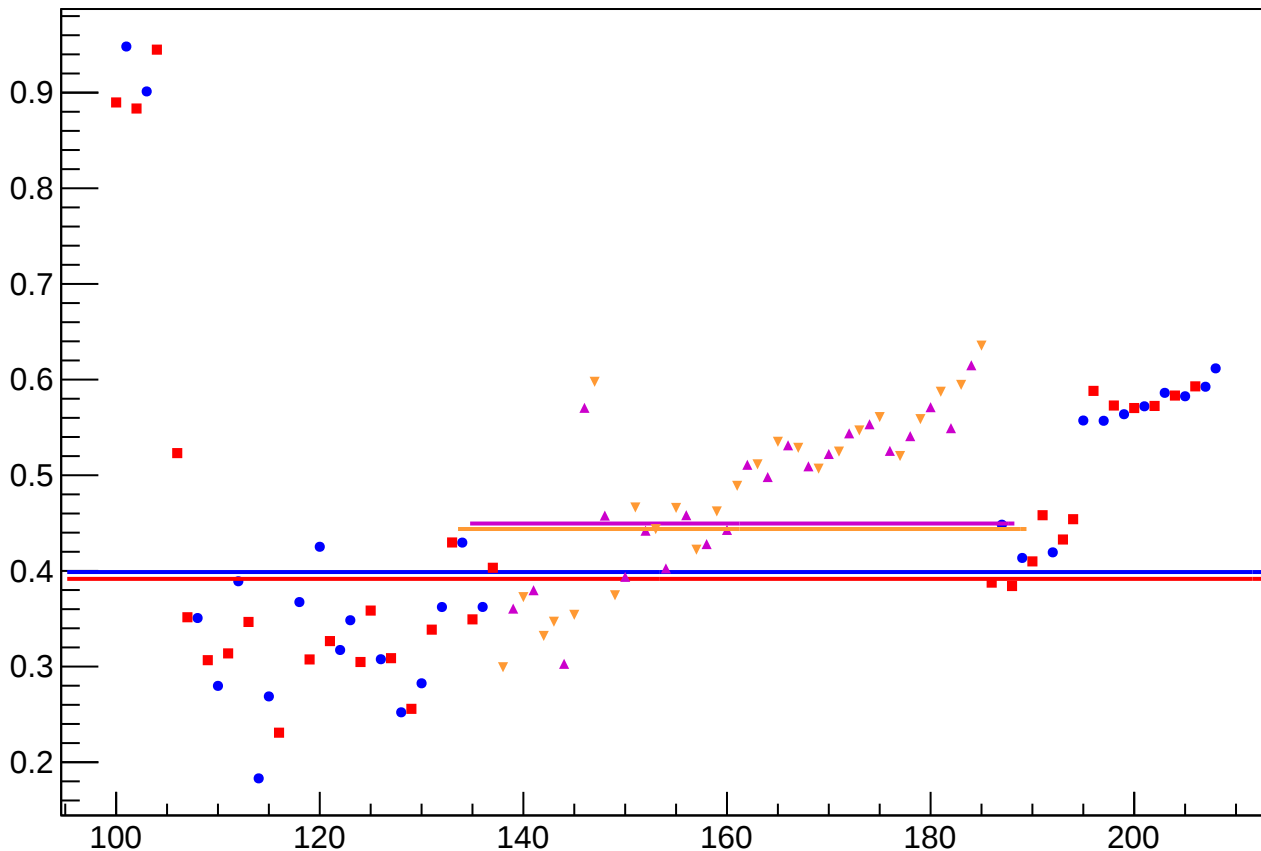
Right: 143.823 ± 0.000 $\chi^2/\text{NDF}: 10480543773.1/58$

In: 145.208 ± 0.000 $\chi^2/\text{NDF}: 4084136615.7/50$

Out: 144.863 ± 0.000 $\chi^2/\text{NDF}: 7953573220.8/55$

All: 145.028 ± 0.000 $\chi^2/\text{NDF}: 12047490418.0/102$

yield_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 0.399 $\pm$ 0.000 χ^2 /NDF: 2883886.5/27

Left Out: 0.444 $\pm$ 0.000 χ^2 /NDF:1460383.7/24

Right Out: 0.392 $\pm$ 0.000 χ^2 /NDF: 2504299.4/30

Left In: 0.450 $\pm$ 0.000 χ^2 /NDF:1092776.5/22

Left: 0.447 $\pm$ 0.000 χ^2 /NDF: 2555905.8/47

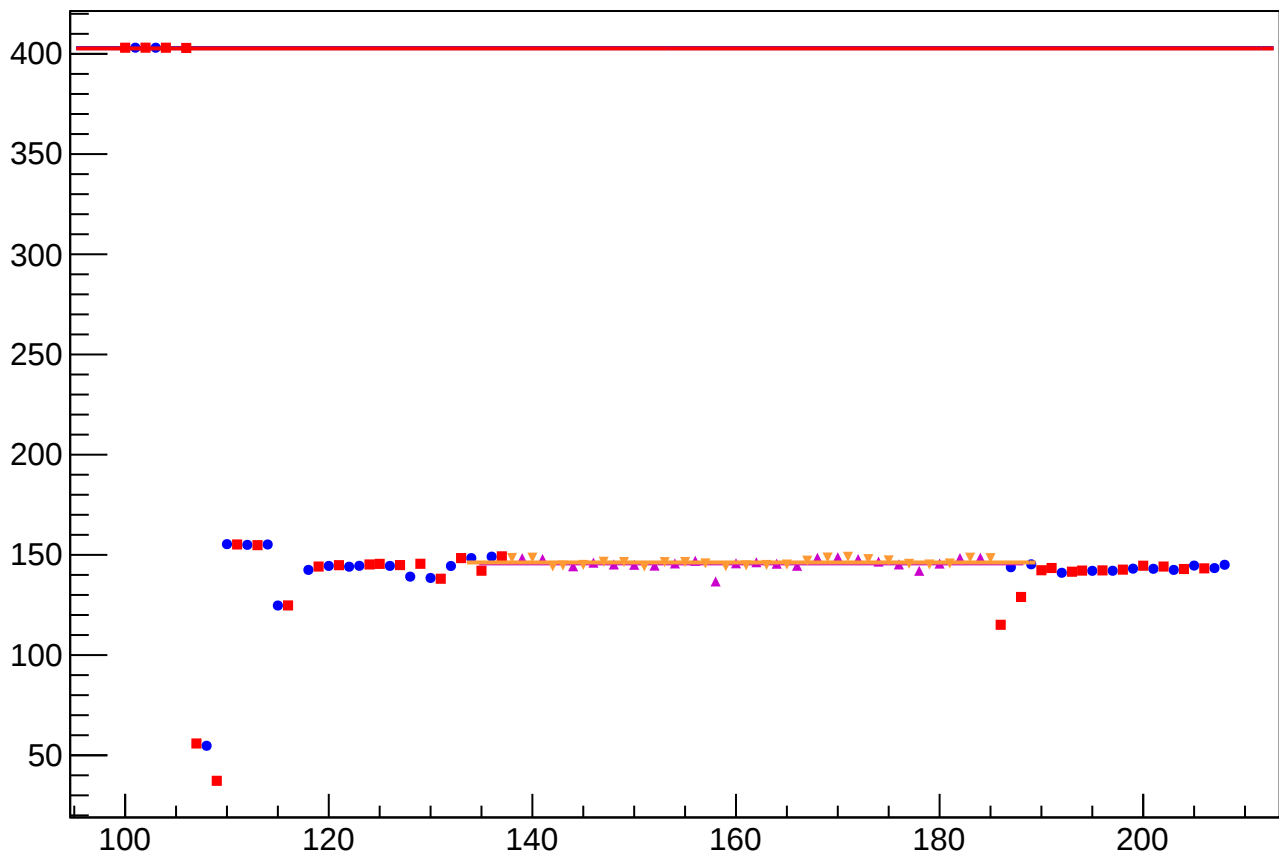
Right: 0.395 $\pm$ 0.000 χ^2 /NDF: 5392276.4/58

In: 0.425 $\pm$ 0.000 χ^2 /NDF:4178376.0/50

Out: 0.418 $\pm$ 0.000 χ^2 /NDF:4196930.1/55

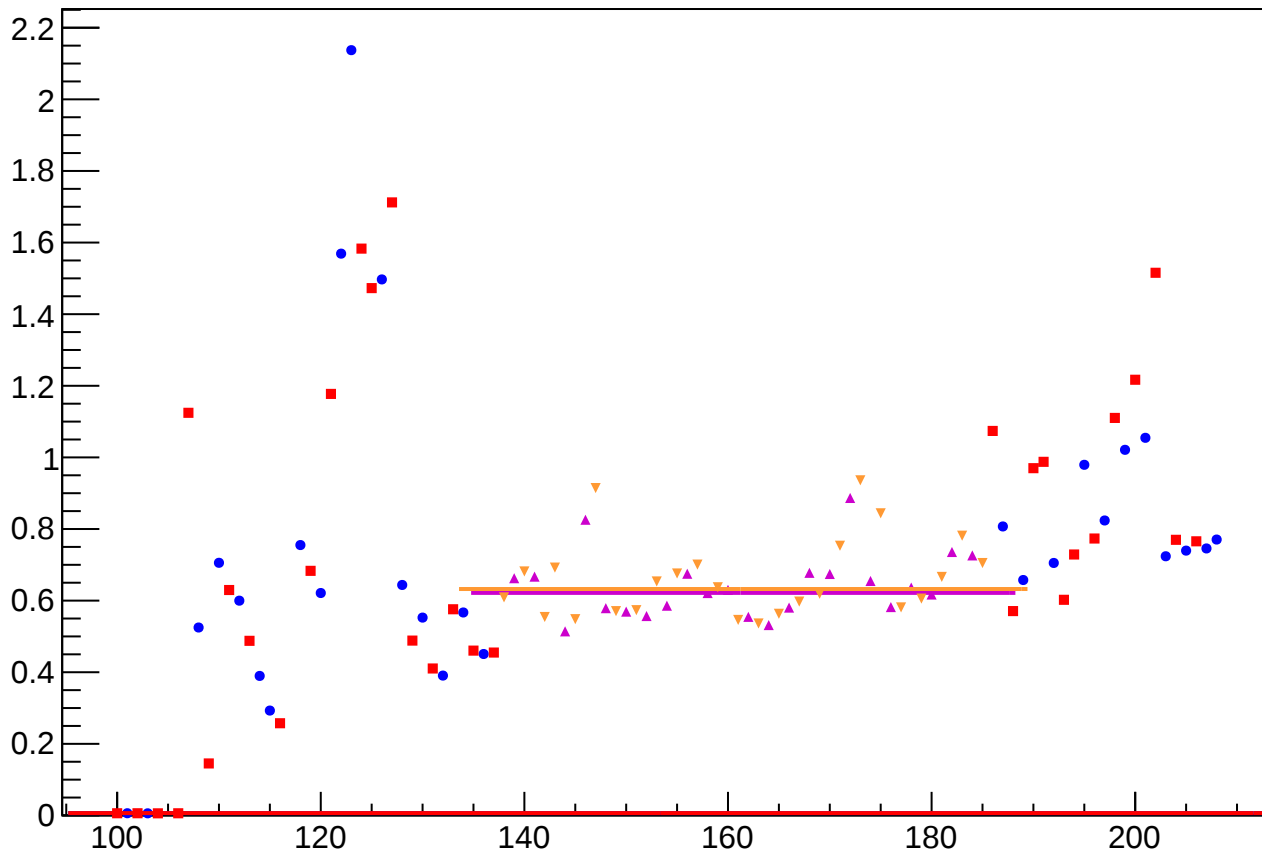
All: 0.421 $\pm$ 0.000 χ^2 /NDF: 8382769.8/106

yield_cav4bQ_mean vs Slug, Sign Corrected



Right In: 402.876 $\pm$ 0.000	χ^2 /NDF: 1752170815469.0/27	Left: 145.987 $\pm$ 0.000	χ^2 /NDF: 295994641.0/47
Left Out: 146.216 $\pm$ 0.000	χ^2 /NDF: 86042286.3/24	Right: 402.792 $\pm$ 0.000	χ^2 /NDF: 5607900904127.1
Right Out: 402.718 $\pm$ 0.000	χ^2 /NDF: 3855314982846.0/30	In: 402.585 $\pm$ 0.000	χ^2 /NDF: 4082972732893.6/50
Left In: 145.755 $\pm$ 0.000	χ^2 /NDF: 206171532.0/22	Out: 402.457 $\pm$ 0.000	χ^2 /NDF: 6212524888055.1/5
		All: 402.517 $\pm$ 0.000	χ^2 /NDF: 102957691257.0

yield_cav4bQ_rms vs Slug, Sign Corrected



Right In: 0.007 $\pm$ 0.000 χ^2 /NDF: 21339507.9/27

Left Out: 0.632 $\pm$ 0.000 χ^2 /NDF:613604.5/24

Right Out: 0.007 $\pm$ 0.000 χ^2 /NDF: 22362471.0/30

Left In: 0.622 $\pm$ 0.000 χ^2 /NDF:399965.3/22

Left: 0.627 $\pm$ 0.000 χ^2 /NDF: 1017722.4/47

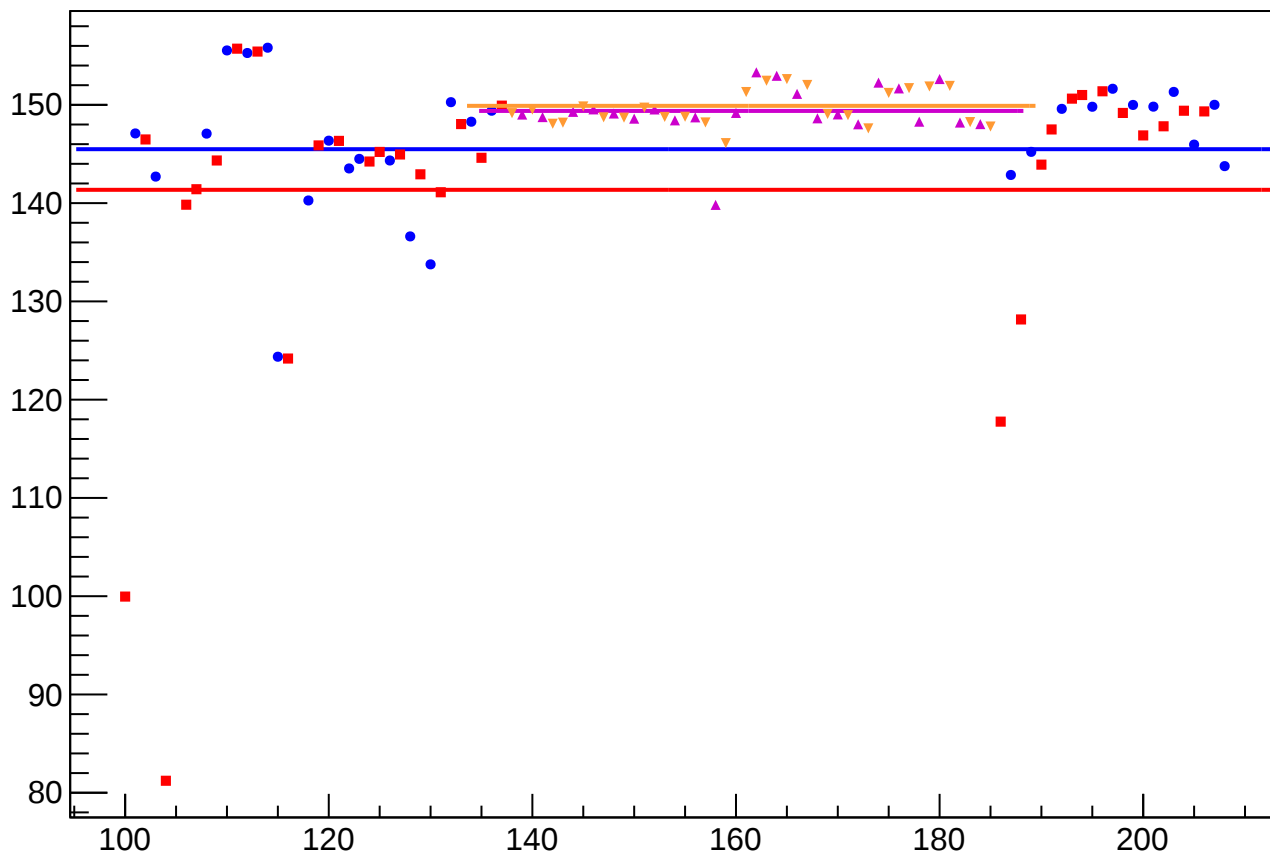
Right: 0.007 $\pm$ 0.000 χ^2 /NDF: 43701999.4/58

In: 0.007 $\pm$ 0.000 χ^2 /NDF:48408117.6/50

Out: 0.007 $\pm$ 0.000 χ^2 /NDF:51041511.9/55

All: 0.007 $\pm$ 0.000 χ^2 /NDF: 99449868.8/106

yield_cav4cQ_mean vs Slug, Sign Corrected



Right In: 145.488 $\pm$ 0.000

χ^2 /NDF: 1331995660.9/27

Left Out: 149.900 $\pm$ 0.000

χ^2 /NDF: 162845622.6/24

Right Out: 141.354 $\pm$ 0.000

χ^2 /NDF: 3247297286.8/30

Left In: 149.382 $\pm$ 0.000

χ^2 /NDF: 434657827.5/22

Left: 149.650 $\pm$ 0.000

χ^2 /NDF: 604081739.6/47

Right: 143.259 $\pm$ 0.000

χ^2 /NDF: 4787091911.9/58

In: 148.125 $\pm$ 0.000

χ^2 /NDF: 1998029233.5/50

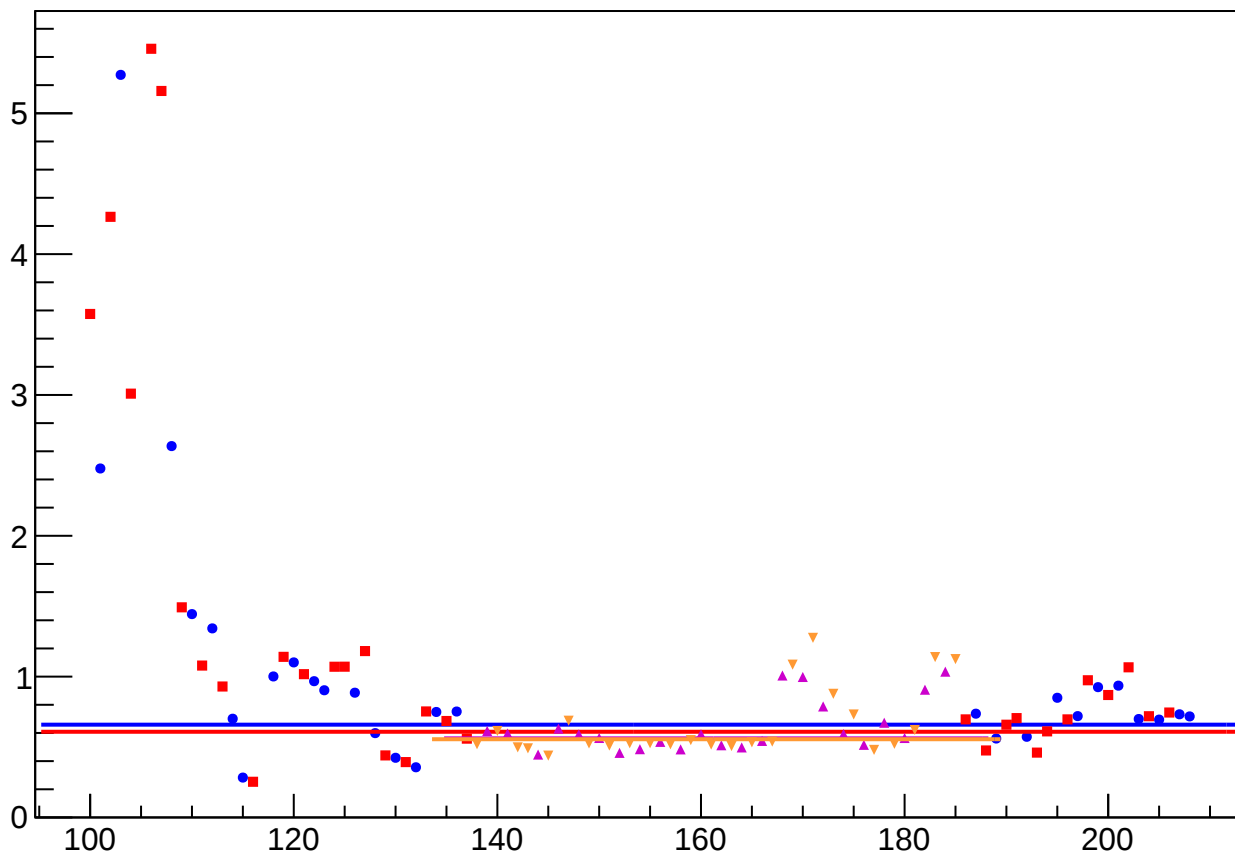
Out: 146.976 $\pm$ 0.000

χ^2 /NDF: 4678059654.6/55

All: 147.522 $\pm$ 0.000

χ^2 /NDF: 6724442674.5

yield_cav4cQ_rms vs Slug, Sign Corrected



Right In: 0.659+/-0.000 χ^2/NDF : 4014849.5/27

Left Out: 0.555+/-0.000 χ^2/NDF :1773688.1/24

Right Out: 0.608+/-0.000 χ^2/NDF : 5544050.6/30

Left In: 0.562+/-0.000 χ^2/NDF :1305573.4/22

Left: 0.559+/-0.000 χ^2/NDF : 3081194.0/47

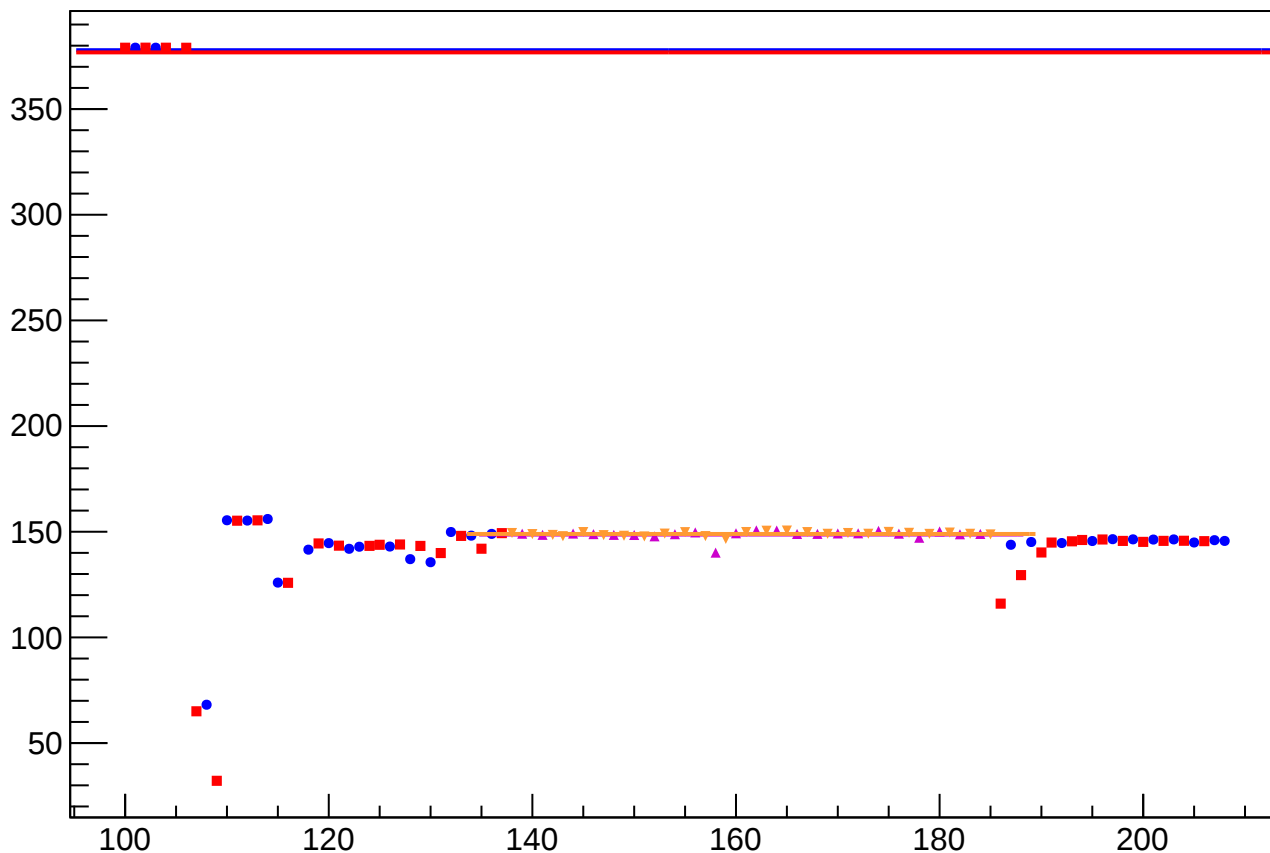
Right: 0.632+/-0.000 χ^2/NDF : 9620559.0/58

In: 0.593+/-0.000 χ^2/NDF :5608221.1/50

Out: 0.574+/-0.000 χ^2/NDF :7415339.6/55

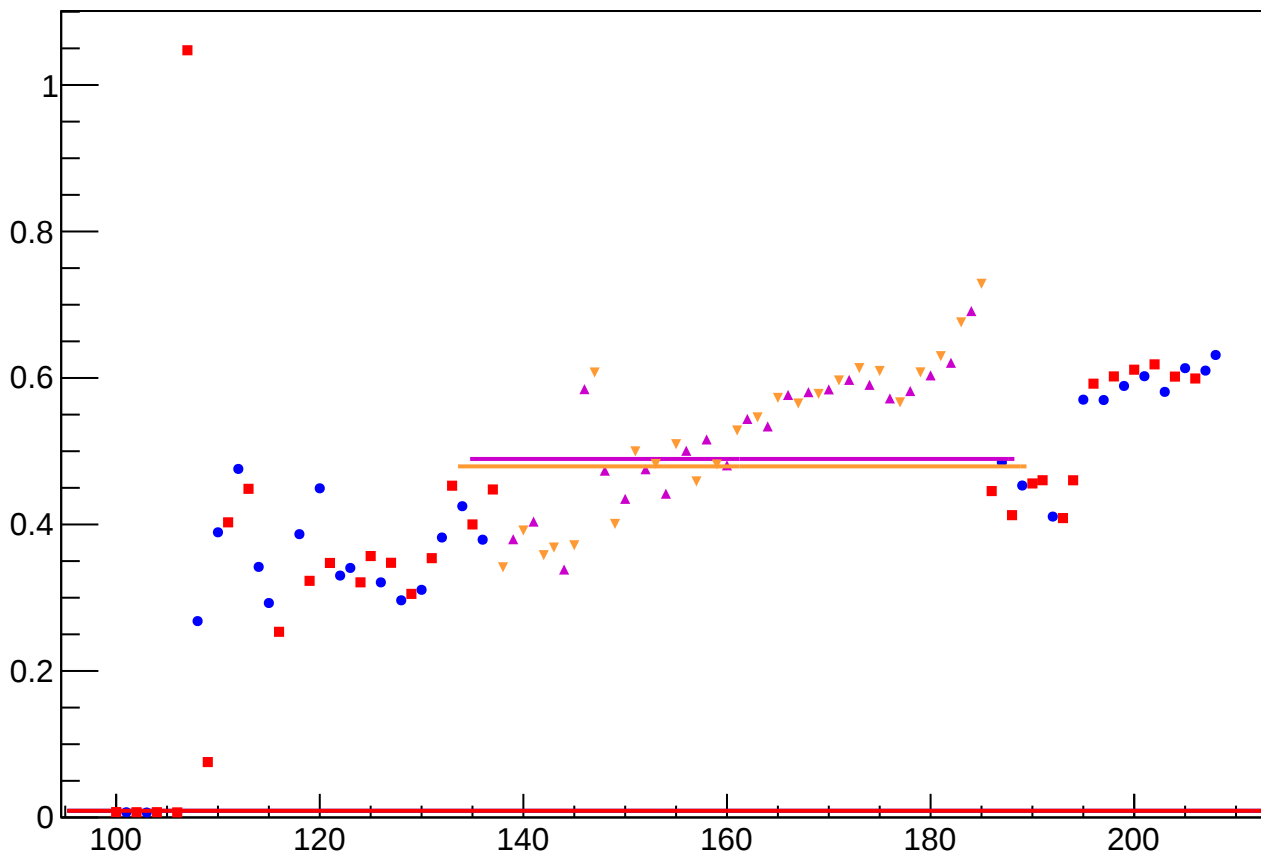
All: 0.583+/-0.000 χ^2/NDF : 13051399.5/106

yield_cav4dQ_mean vs Slug, Sign Corrected



Right In: 377.854 $\pm$ 0.000	χ^2 /NDF: 3835978443304.9/27	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: 377.306 $\pm$ 0.000	χ^2 /NDF: 13791613649770.9
Right Out: 376.825 $\pm$ 0.000	χ^2 /NDF: 9948110112903.1/30	In: 376.685 $\pm$ 0.000	χ^2 /NDF: 7410368661667.7/50
Left In: 148.672 $\pm$ 0.000	χ^2 /NDF: 252846428.3/22	Out: 375.711 $\pm$ 0.000	χ^2 /NDF: 13808485245680.3
		All: 376.166 $\pm$ 0.000	χ^2 /NDF: 212256238936.0

yield_cav4dQ_rms vs Slug, Sign Corrected



Right In: 0.009+/-0.000 χ^2/NDF : 24237239.5/27

Left Out: 0.479+/-0.000 χ^2/NDF :1516566.1/24

Right Out: 0.009+/-0.000 χ^2/NDF : 24531443.1/30

Left In: 0.489+/-0.000 χ^2/NDF :1076134.2/22

Left: 0.484+/-0.000 χ^2/NDF : 2600075.4/47

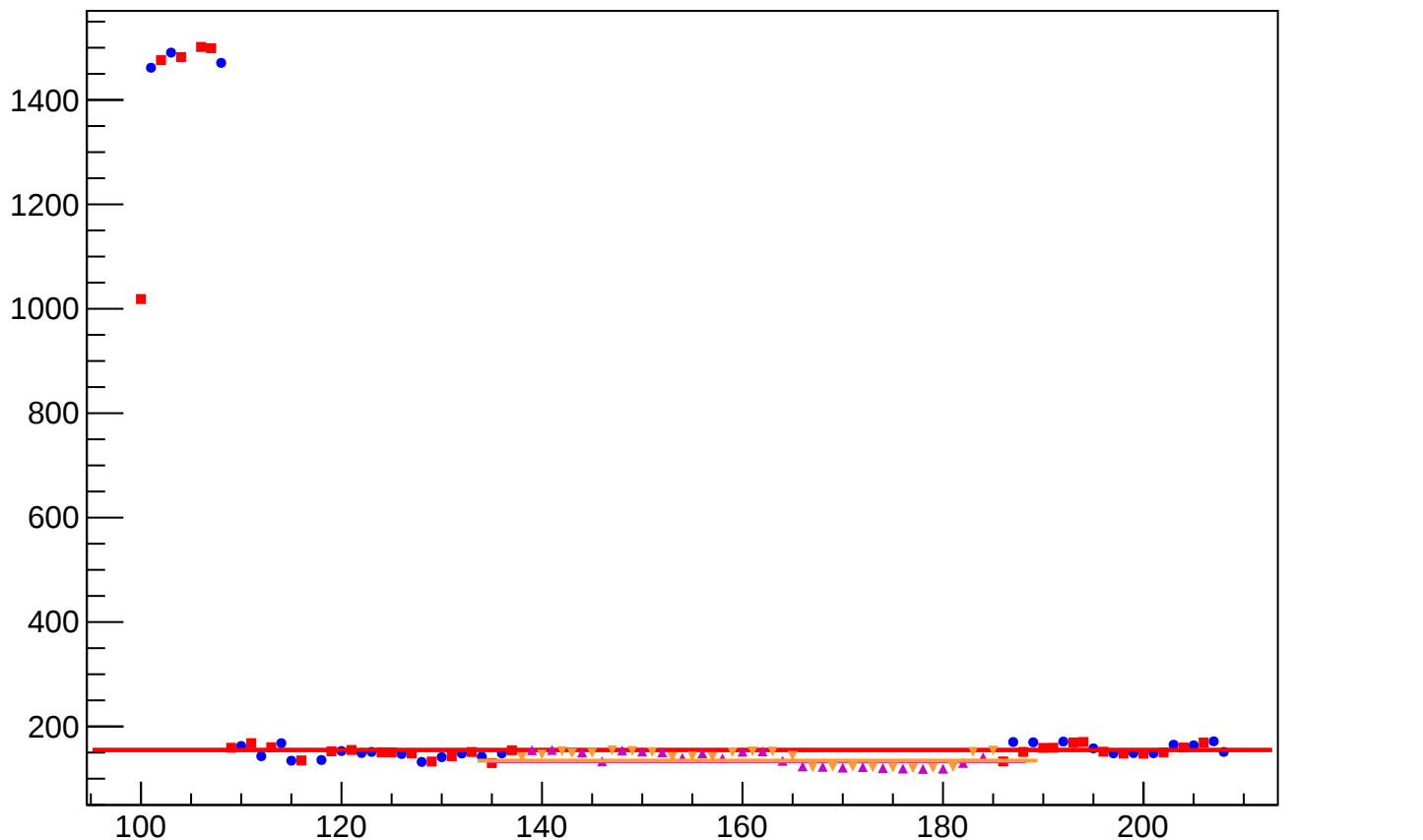
Right: 0.009+/-0.000 χ^2/NDF : 48768682.7/58

In: 0.012+/-0.000 χ^2/NDF :56715846.4/50

Out: 0.011+/-0.000 χ^2/NDF :58916555.0/55

All: 0.011+/-0.000 χ^2/NDF : 115632719.4/106

yield_bcm0l02_mean vs Slug, Sign Corrected



Right In: 154.908+/-0.000

χ^2/NDF : 25941899492.8/27

Left: 133.958+/-0.000

χ^2/NDF : 8697951676.8/47

Right: 155.012+/-0.000

χ^2/NDF : 60939460013.5/58

Left Out: 134.554+/-0.000

χ^2/NDF : 4376966869.3/24

In: 142.514+/-0.000

χ^2/NDF : 34747276098.4/50

Right Out: 155.107+/-0.000

χ^2/NDF : 34997213561.7/30

Out: 143.498+/-0.000

χ^2/NDF : 43733494872.7/55

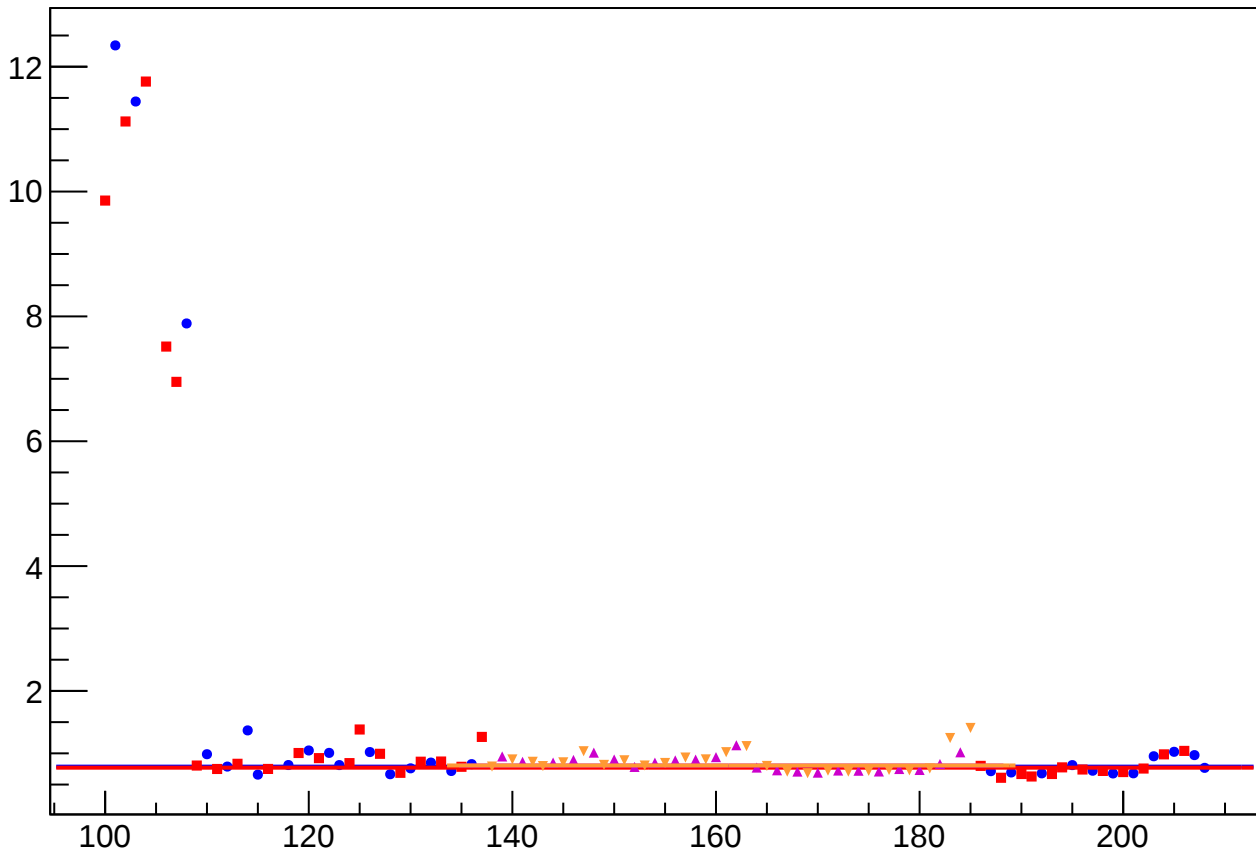
Left In: 133.337+/-0.000

χ^2/NDF : 4303812119.2/22

All: 143.021+/-0.000

χ^2/NDF : 78500494904.0/100

yield_bcm0l02_rms vs Slug, Sign Corrected



Right In: 0.787 $\pm$ 0.000 χ^2 /NDF: 3008112.8/27

Left Out: 0.806 $\pm$ 0.000 χ^2 /NDF:690578.5/24

Right Out: 0.771 $\pm$ 0.000 χ^2 /NDF: 3297804.1/30

Left In: 0.805 $\pm$ 0.000 χ^2 /NDF:480510.8/22

Left: 0.805 $\pm$ 0.000 χ^2 /NDF: 1171131.4/47

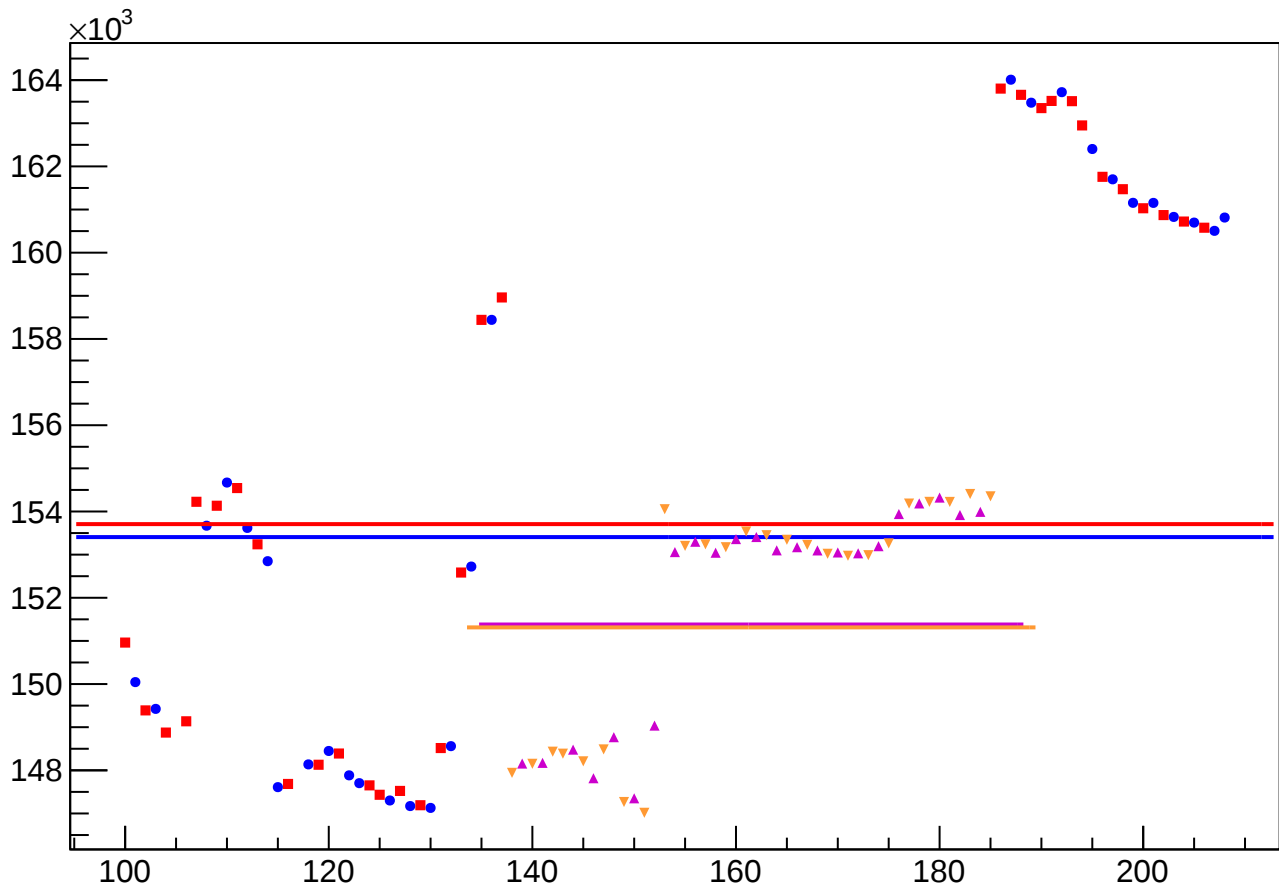
Right: 0.779 $\pm$ 0.000 χ^2 /NDF: 6310808.3/58

In: 0.797 $\pm$ 0.000 χ^2 /NDF:3494553.8/50

Out: 0.791 $\pm$ 0.000 χ^2 /NDF:4014480.7/55

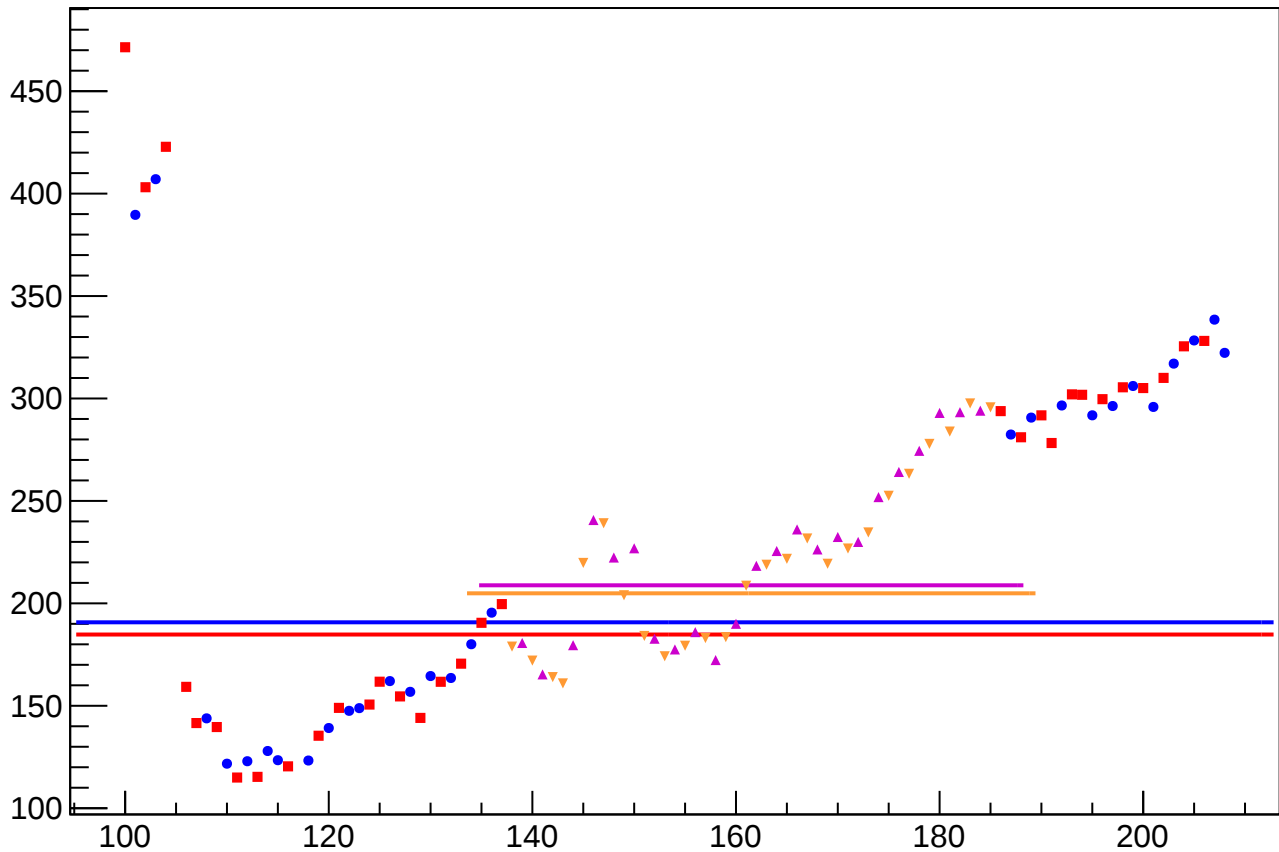
All: 0.794 $\pm$ 0.000 χ^2 /NDF: 7510852.9/106

yield_bpm0i01WS_mean vs Slug, Sign Corrected



Right In: 153406.781+/-0.055	χ^2/NDF : 10977859063.7/27	Left: 151345.082+/-0.035	χ^2/NDF : 5518562148.3/4
Left Out: 151313.284+/-0.049	χ^2/NDF : 3153768134.8/24	Right: 153564.504+/-0.038	χ^2/NDF : 22574897727.7
Right Out: 153707.609+/-0.052	χ^2/NDF : 11581228648.1/30	In: 152324.873+/-0.037	χ^2/NDF : 14072327065.3/5
Left In: 151380.236+/-0.051	χ^2/NDF : 2363895785.3/22	Out: 152427.517+/-0.036	χ^2/NDF : 15860599181.7
		All: 152378.731+/-0.026	χ^2/NDF : 299368780

yield_bpm0i01WS_rms vs Slug, Sign Corrected



Right In: 190.746+/-0.039 χ^2/NDF : 4117286.0/27

Left Out: 204.900+/-0.034 χ^2/NDF : 1056380.8/24

Right Out: 184.783+/-0.037 χ^2/NDF : 4392464.4/30

Left In: 208.813+/-0.036 χ^2/NDF : 1001936.6/22

Left: 206.758+/-0.025 χ^2/NDF : 2064453.9/47

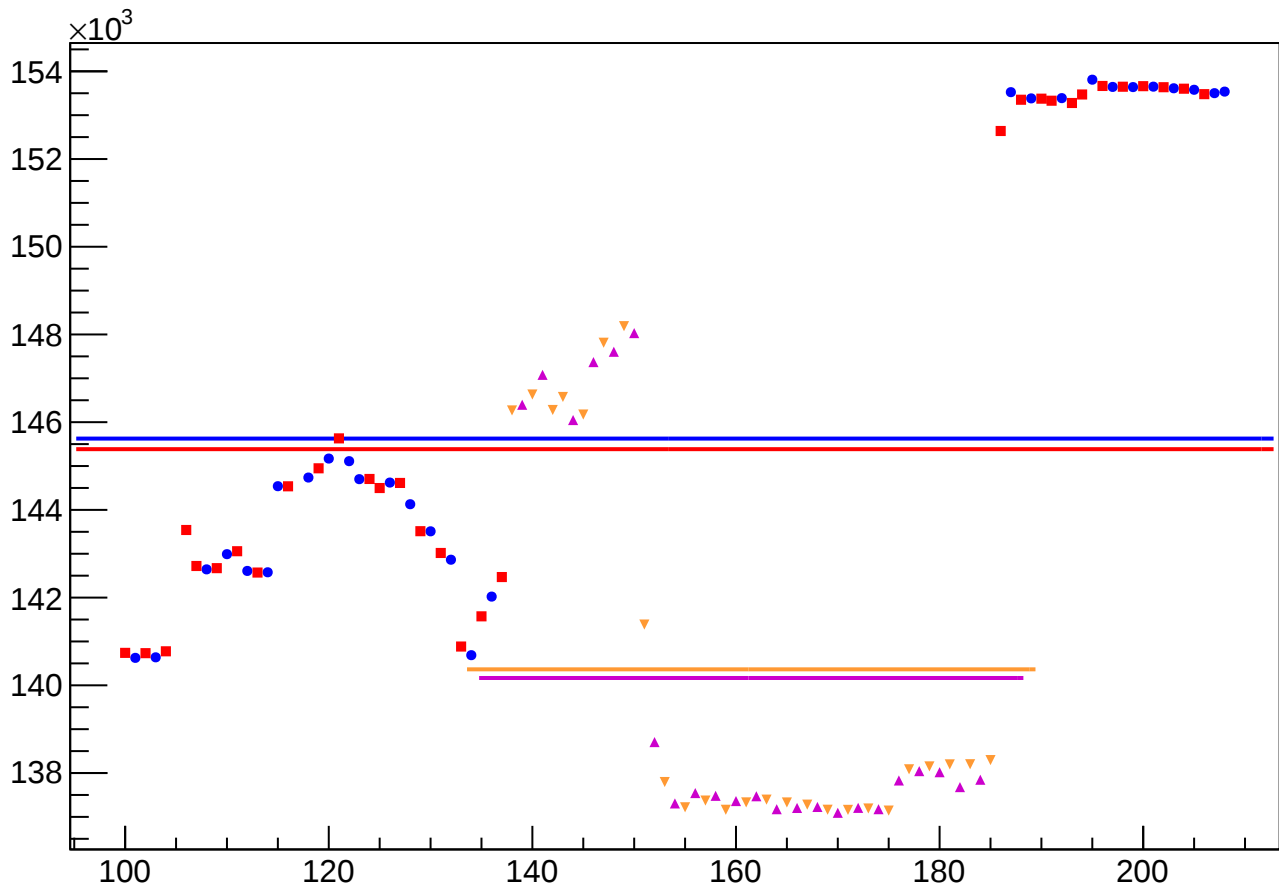
Right: 187.620+/-0.027 χ^2/NDF : 8522173.1/58

In: 200.391+/-0.026 χ^2/NDF : 5235347.8/50

Out: 195.538+/-0.025 χ^2/NDF : 5607750.2/55

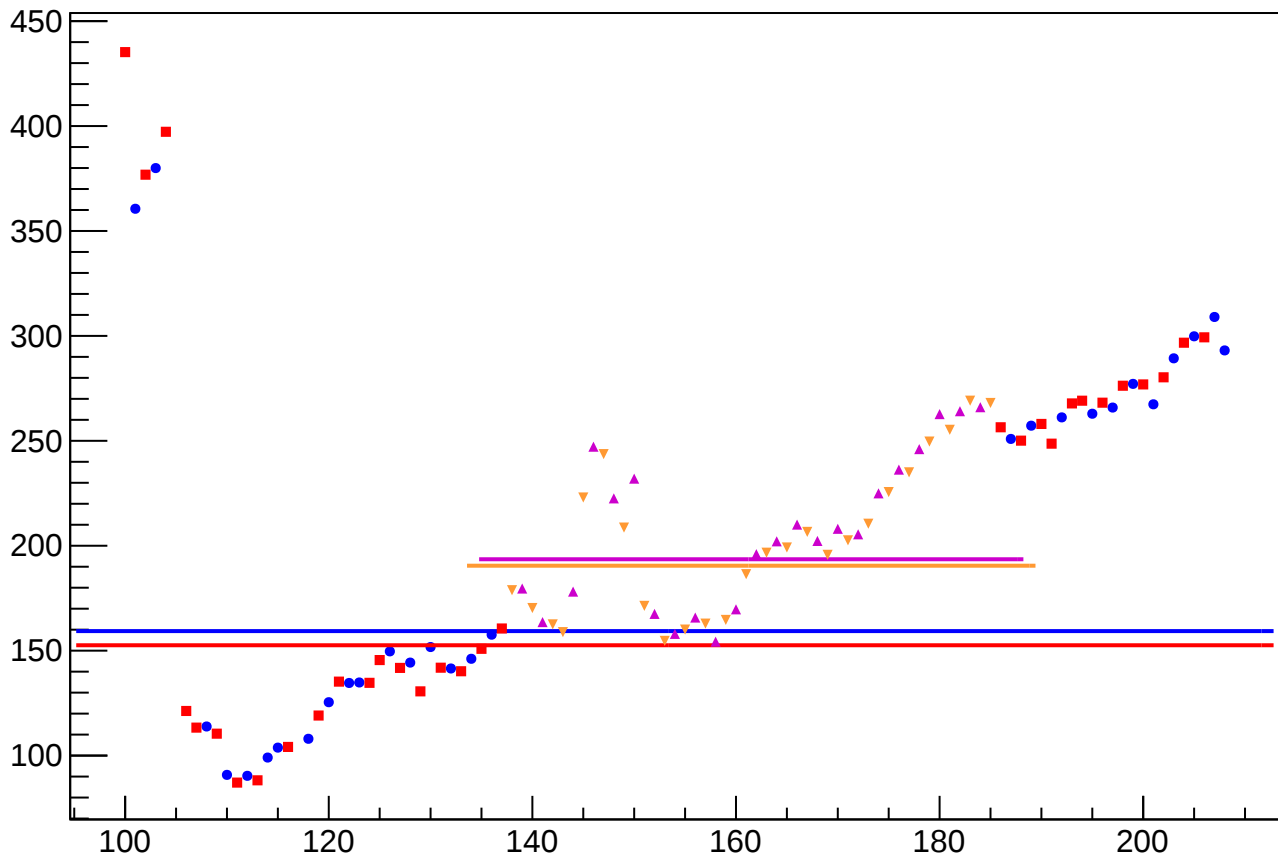
All: 197.845+/-0.018 χ^2/NDF : 10860765.8/10

yield_bpm0i01aWS_mean vs Slug, Sign Corrected



Right In: 145625.854 $\pm$ 0.047	χ^2 /NDF: 8715622355.1/27	Left: 140270.460 $\pm$ 0.033	χ^2 /NDF: 16714620354.4
Left Out: 140364.444 $\pm$ 0.045	χ^2 /NDF: 8677078677.7/24	Right: 145497.527 $\pm$ 0.032	χ^2 /NDF: 18205643298.8
Right Out: 145384.581 $\pm$ 0.044	χ^2 /NDF: 9475783889.2/30	In: 142943.706 $\pm$ 0.033	χ^2 /NDF: 23476593356.7/5
Left In: 140166.971 $\pm$ 0.047	χ^2 /NDF: 8028464654.6/22	Out: 142957.309 $\pm$ 0.031	χ^2 /NDF: 24518946332.1/5
		All: 142950.889 $\pm$ 0.023	χ^2 /NDF: 479956280.0

yield_bpm0i01aWS_rms vs Slug, Sign Corrected



Right In: 159.326+/-0.033 χ^2/NDF : 5035258.4/27

Left Out: 190.486+/-0.032 χ^2/NDF : 950233.2/24

Right Out: 152.577+/-0.031 χ^2/NDF : 5357075.4/30

Left In: 193.558+/-0.034 χ^2/NDF : 963675.0/22

Left: 191.948+/-0.023 χ^2/NDF : 1918302.4/47

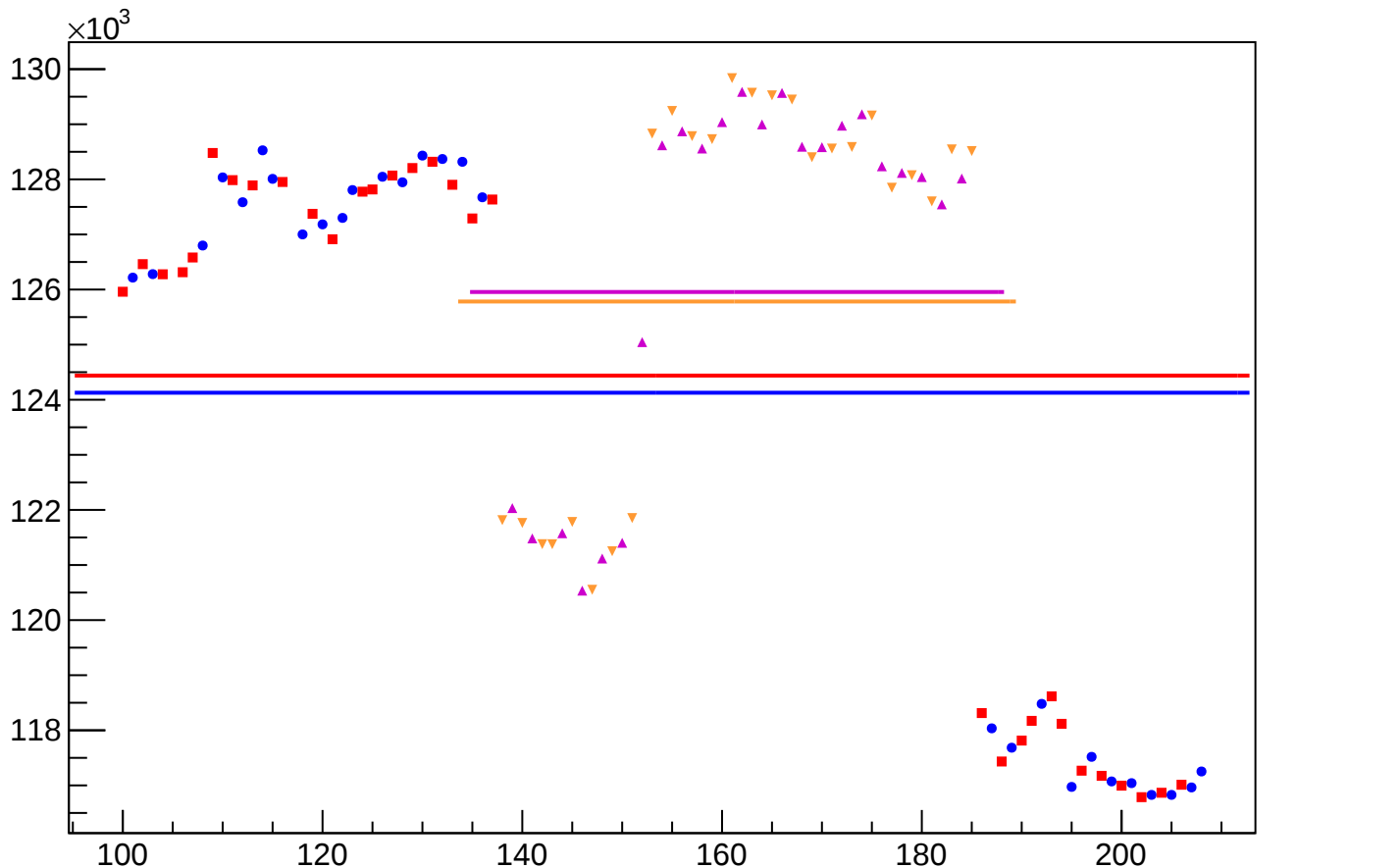
Right: 155.736+/-0.023 χ^2/NDF : 10414614.1/58

In: 176.146+/-0.024 χ^2/NDF : 6528436.0/50

Out: 170.906+/-0.022 χ^2/NDF : 7033340.3/55

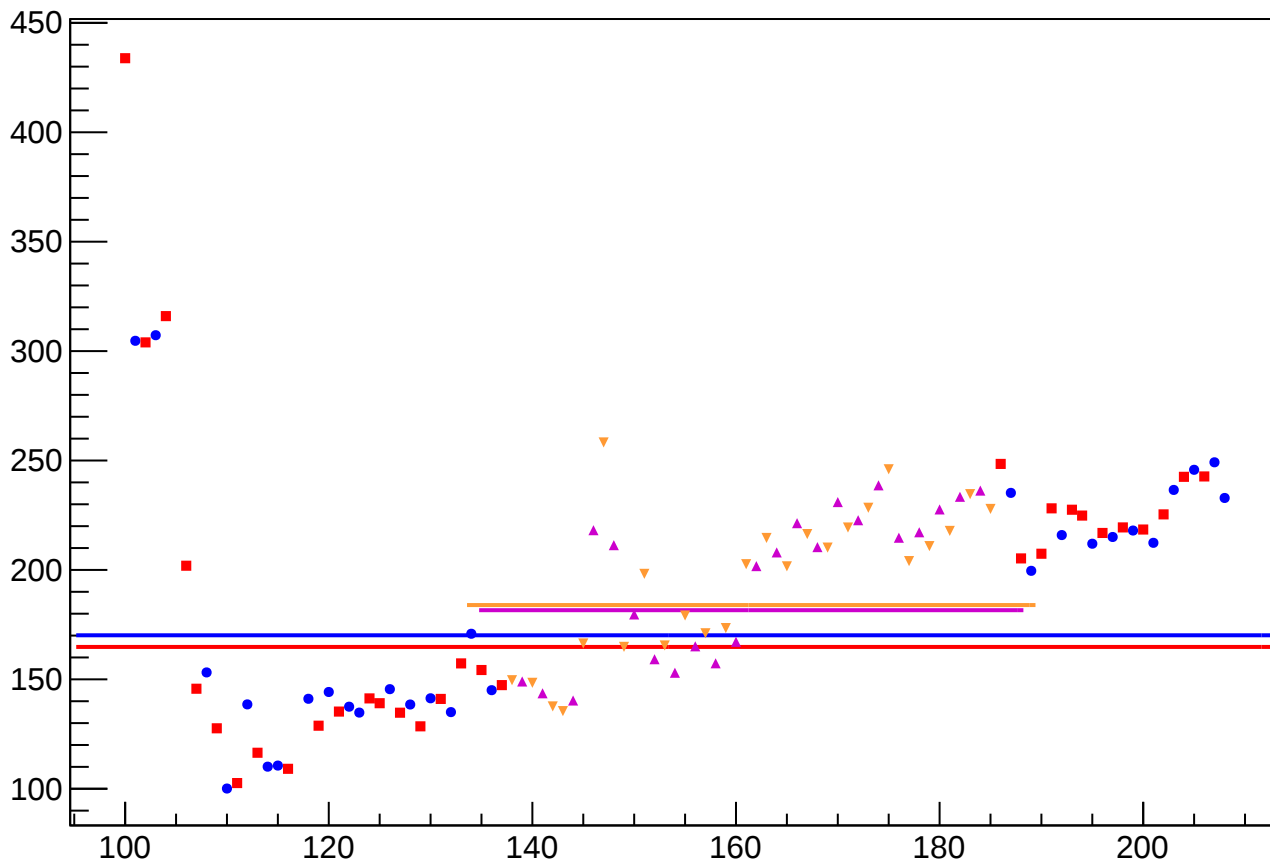
All: 173.379+/-0.016 χ^2/NDF : 13587984.4/10

yield_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: 124127.207 $\pm$ 0.047	χ^2/NDF : 11137146761.5/27	Left: 125867.639 $\pm$ 0.031	χ^2/NDF : 12541428458.9/27
Left Out: 125782.764 $\pm$ 0.044	χ^2/NDF : 6729761889.8/24	Right: 124289.989 $\pm$ 0.033	χ^2/NDF : 22653154728.0/24
Right Out: 124438.251 $\pm$ 0.045	χ^2/NDF : 11493207814.5/30	In: 125087.510 $\pm$ 0.032	χ^2/NDF : 17731905875.7/30
Left In: 125955.637 $\pm$ 0.045	χ^2/NDF : 5804088930.1/22	Out: 125125.166 $\pm$ 0.031	χ^2/NDF : 18679587824.0/22
		All: 125106.938 $\pm$ 0.023	χ^2/NDF : 364121875.0/22

yield_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 170.133+/-0.033 χ^2/NDF : 2212982.3/27

Left Out: 183.947+/-0.031 χ^2/NDF : 1123194.0/24

Right Out: 164.810+/-0.032 χ^2/NDF : 2623111.6/30

Left In: 181.596+/-0.032 χ^2/NDF : 1103524.3/22

Left: 182.792+/-0.022 χ^2/NDF : 2229521.2/47

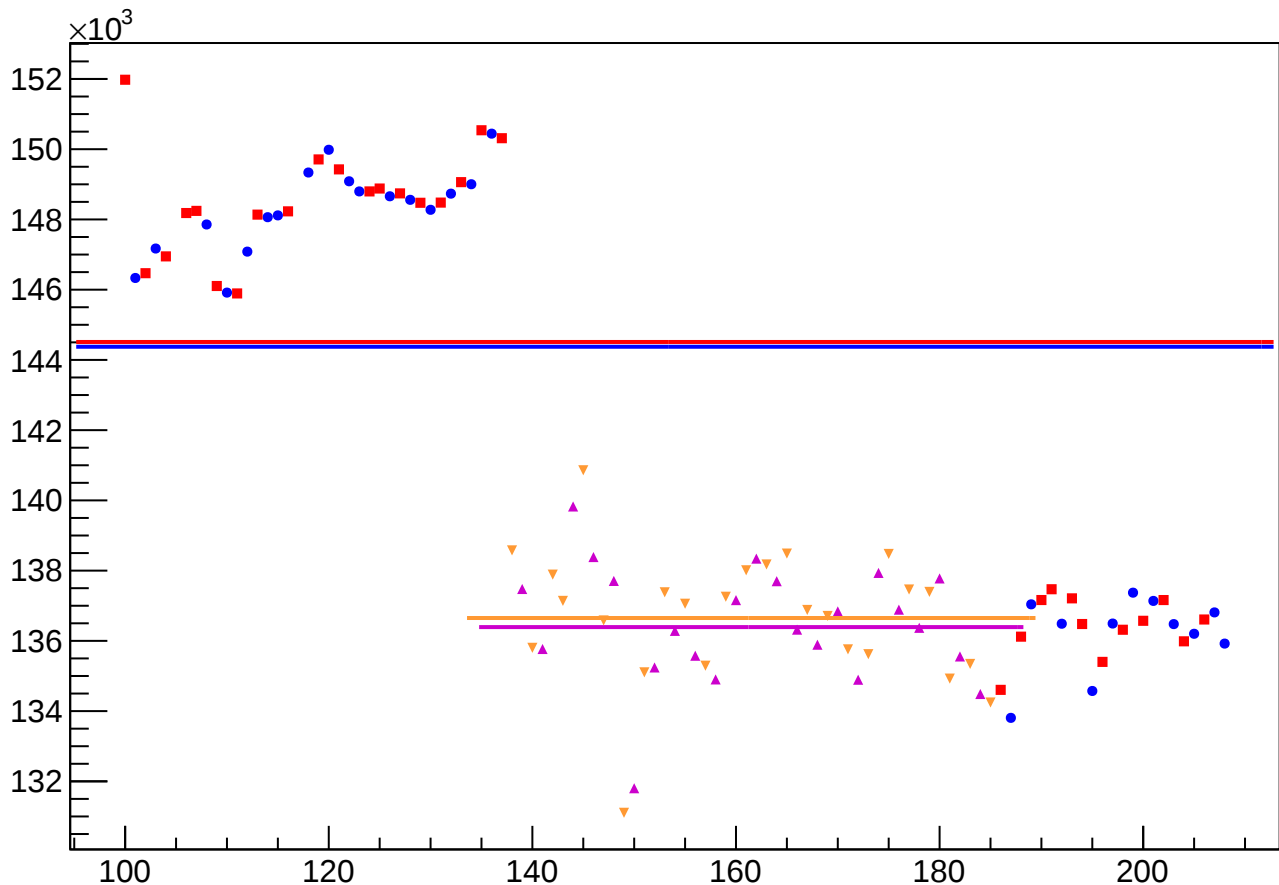
Right: 167.347+/-0.023 χ^2/NDF : 4849449.6/58

In: 176.153+/-0.023 χ^2/NDF : 3378658.2/50

Out: 174.587+/-0.022 χ^2/NDF : 3931317.4/55

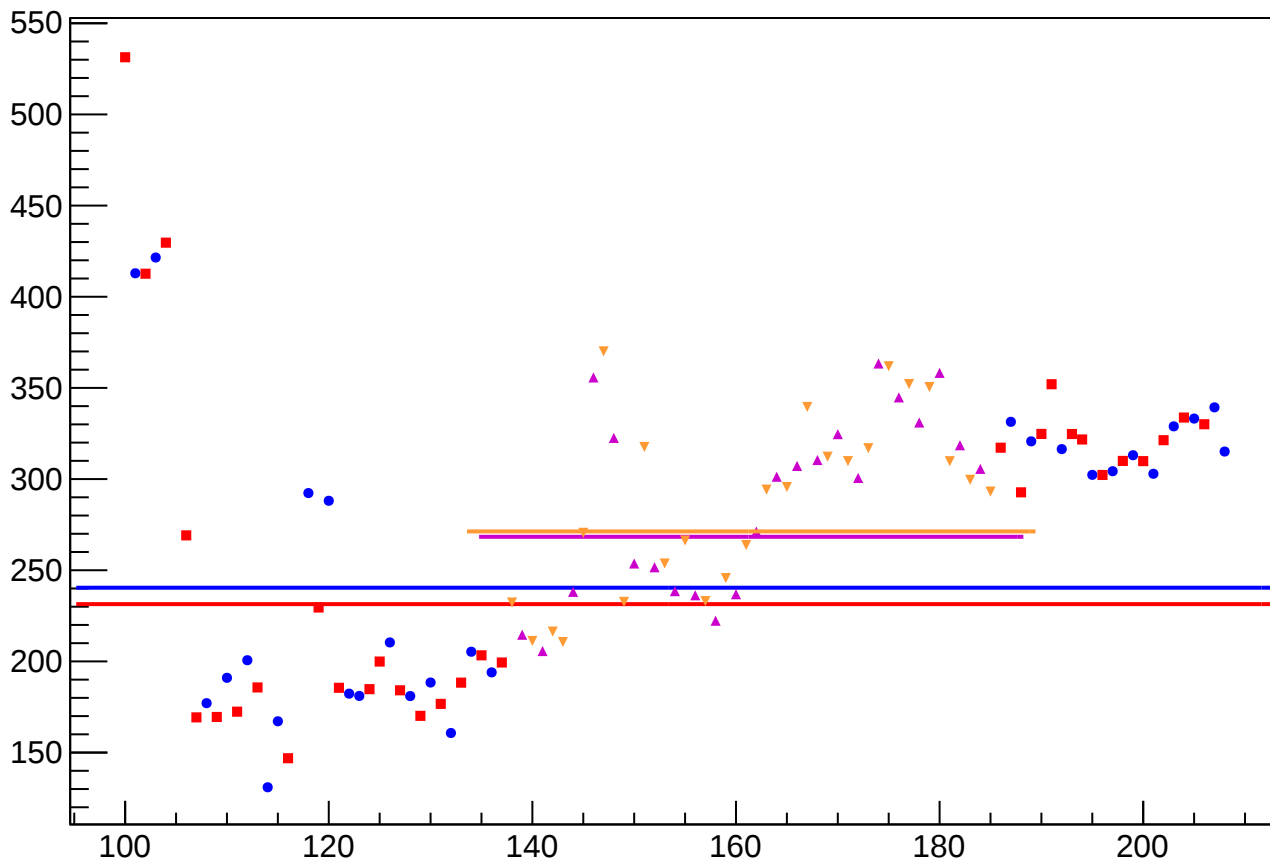
All: 175.345+/-0.016 χ^2/NDF : 7312376.7/106

yield_bpm0l02WS_mean vs Slug, Sign Corrected



Right In: 144375.156+/-0.067	χ^2/NDF : 7723916429.5/27	Left: 136524.219+/-0.046	χ^2/NDF : 1640486942.5/4
Left Out: 136650.935+/-0.065	χ^2/NDF : 930649595.5/24	Right: 144446.836+/-0.046	χ^2/NDF : 15789480262.0/1
Right Out: 144511.060+/-0.063	χ^2/NDF : 8063376501.1/30	In: 140337.447+/-0.047	χ^2/NDF : 15663365794.3/5
Left In: 136392.188+/-0.066	χ^2/NDF : 701986841.4/22	Out: 140670.561+/-0.045	χ^2/NDF : 16558913692.4/1
		All: 140510.301+/-0.033	χ^2/NDF : 322484399.0/1

yield_bpm0l02WS_rms vs Slug, Sign Corrected



Right In: 240.420 $\pm$ 0.047 χ^2 /NDF: 2330444.6/27

Left Out: 271.295 $\pm$ 0.046 χ^2 /NDF:1064485.7/24

Right Out: 231.414 $\pm$ 0.045 χ^2 /NDF: 2548681.8/30

Left In: 268.344 $\pm$ 0.047 χ^2 /NDF:1077364.0/22

Left: 269.850 $\pm$ 0.033 χ^2 /NDF: 2143892.9/47

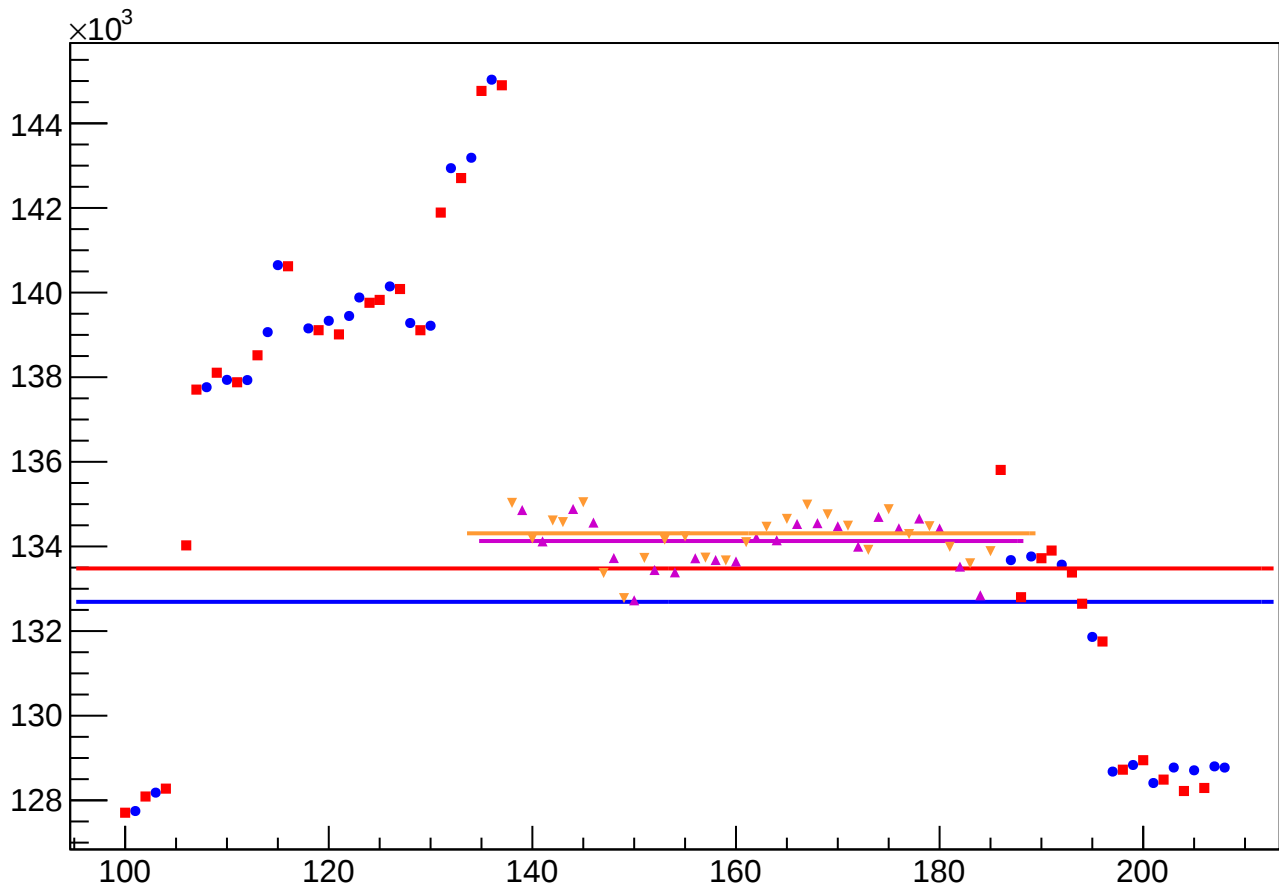
Right: 235.670 $\pm$ 0.032 χ^2 /NDF: 4898337.7/58

In: 254.543 $\pm$ 0.033 χ^2 /NDF:3584915.5/50

Out: 250.900 $\pm$ 0.032 χ^2 /NDF:4002676.2/55

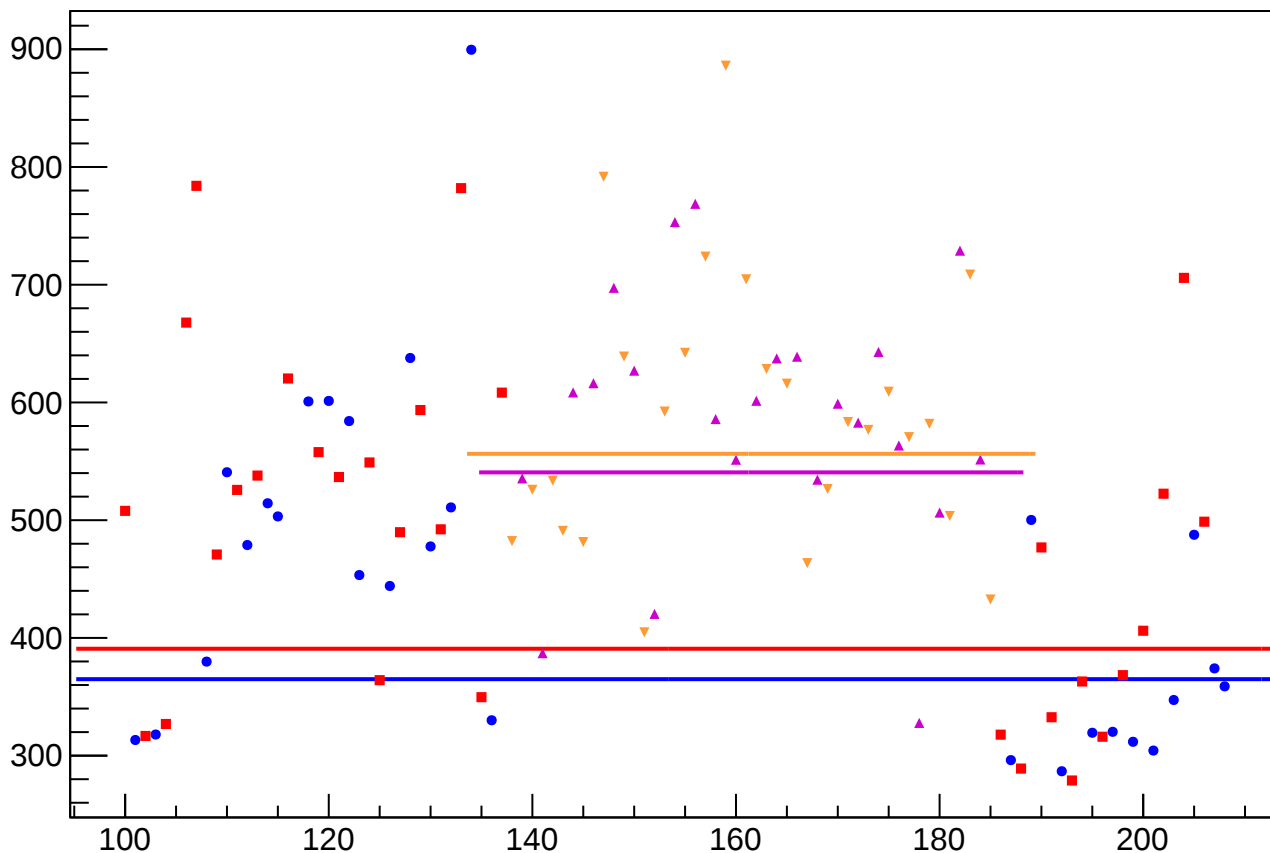
All: 252.653 $\pm$ 0.023 χ^2 /NDF: 7593850.6/106

yield_bpm0l03WS_mean vs Slug, Sign Corrected



Right In: 132690.822 $\pm$ 0.109	χ^2 /NDF: 2566152579.9/27	Left: 134221.438 $\pm$ 0.099	χ^2 /NDF: 31894688.0/47
Left Out: 134310.250 $\pm$ 0.139	χ^2 /NDF: 15518632.9/24	Right: 133059.108 $\pm$ 0.079	χ^2 /NDF: 4201499023.7
Right Out: 133479.963 $\pm$ 0.116	χ^2 /NDF: 1610732647.5/30	In: 133221.716 $\pm$ 0.086	χ^2 /NDF: 2646312485.9/50
Left In: 134128.172 $\pm$ 0.142	χ^2 /NDF: 15533736.2/22	Out: 133822.661 $\pm$ 0.089	χ^2 /NDF: 1647339012.9/5
		All: 133512.855 $\pm$ 0.062	χ^2 /NDF: 431714722

yield_bpm0l03WS_rms vs Slug, Sign Corrected



Right In: 364.964 $\pm$ 0.077 χ^2 /NDF: 1337809.9/27

Left Out: 556.381 $\pm$ 0.098 χ^2 /NDF:1002064.0/24

Right Out: 390.811 $\pm$ 0.082 χ^2 /NDF: 1898221.0/30

Left In: 540.607 $\pm$ 0.100 χ^2 /NDF:1409015.2/22

Left: 548.687 $\pm$ 0.070 χ^2 /NDF: 2423723.9/47

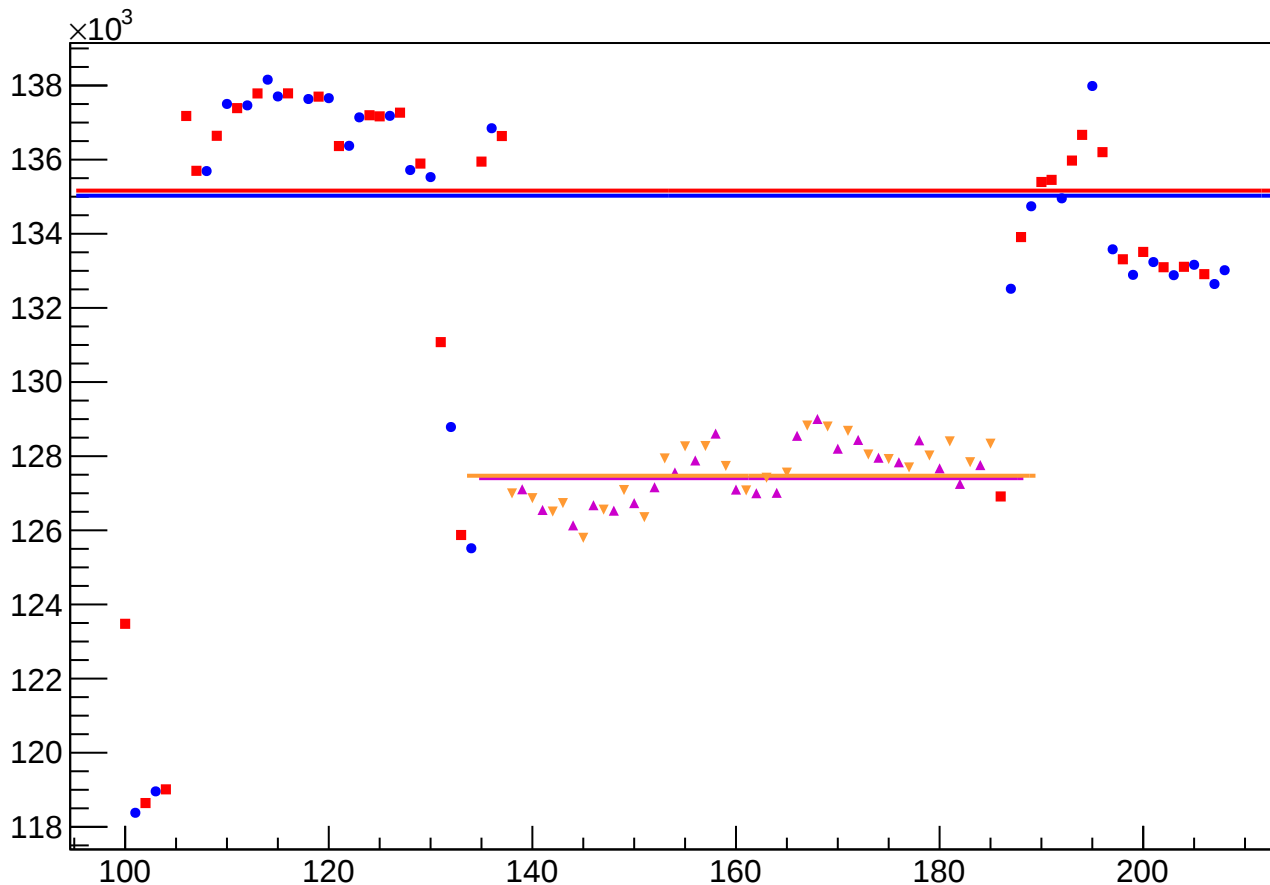
Right: 377.026 $\pm$ 0.056 χ^2 /NDF: 3288839.1/58

In: 429.839 $\pm$ 0.061 χ^2 /NDF:4676899.0/50

Out: 459.149 $\pm$ 0.063 χ^2 /NDF:4577435.0/55

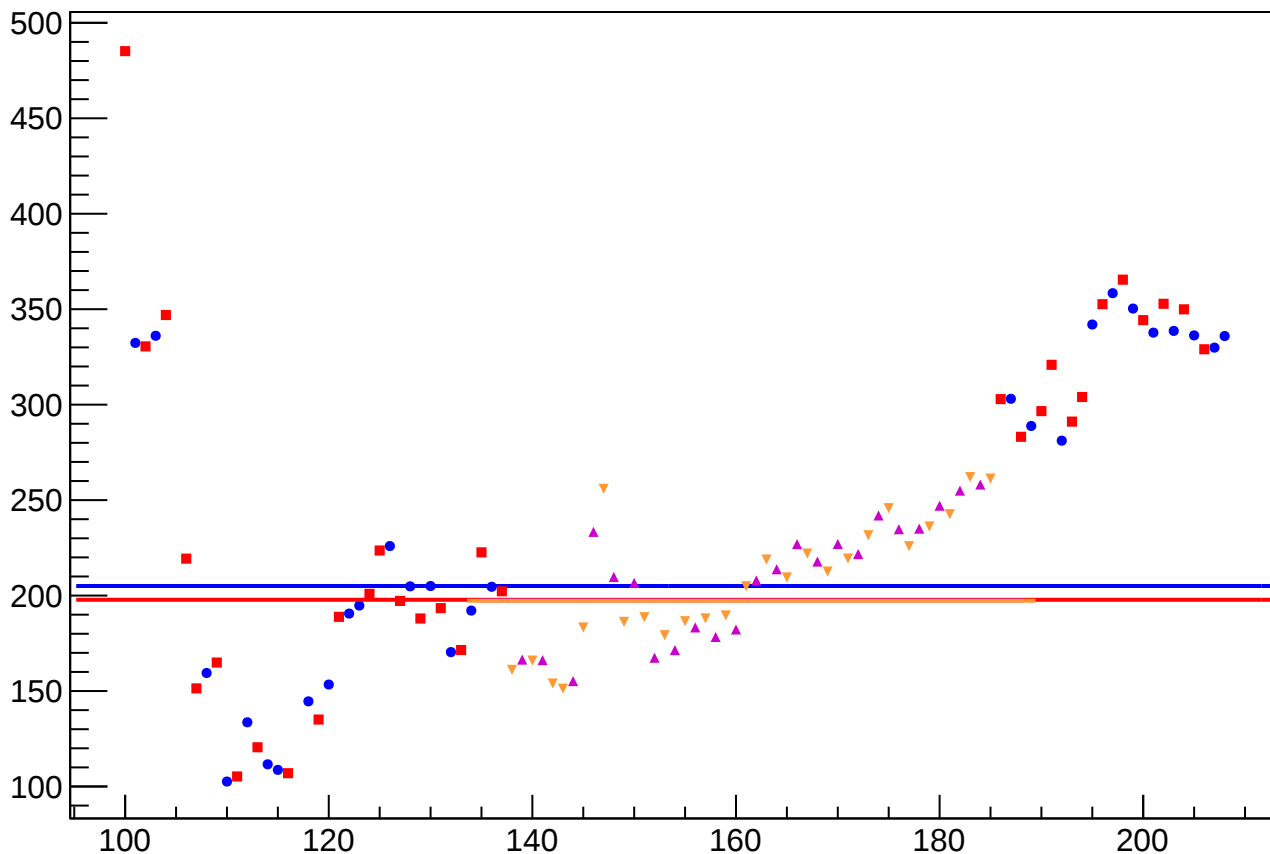
All: 444.039 $\pm$ 0.044 χ^2 /NDF: 9366121.9/106

yield_bpm0l04WS_mean vs Slug, Sign Corrected



Right In: 135027.393+/-0.059	χ^2/NDF : 4864867878.4/27	Left: 127440.757+/-0.034	χ^2/NDF : 574486725.7/47
Left Out: 127472.525+/-0.047	χ^2/NDF : 303609315.6/24	Right: 135099.488+/-0.041	χ^2/NDF : 10081355948.0/24
Right Out: 135164.447+/-0.056	χ^2/NDF : 5213662704.1/30	In: 130461.014+/-0.037	χ^2/NDF : 15085074808.4/5
Left In: 127406.911+/-0.048	χ^2/NDF : 269927988.0/22	Out: 130631.108+/-0.036	χ^2/NDF : 16583534134.5/24
		All: 130549.458+/-0.026	χ^2/NDF : 316793423.0/24

yield_bpm0l04WS_rms vs Slug, Sign Corrected



Right In: 205.016 $\pm$ 0.042 χ^2 /NDF: 4149456.9/27

Left Out: 197.289 $\pm$ 0.033 χ^2 /NDF: 852024.1/24

Right Out: 197.803 $\pm$ 0.040 χ^2 /NDF: 4553246.1/30

Left In: 197.471 $\pm$ 0.034 χ^2 /NDF: 791577.5/22

Left: 197.377 $\pm$ 0.024 χ^2 /NDF: 1643616.2/47

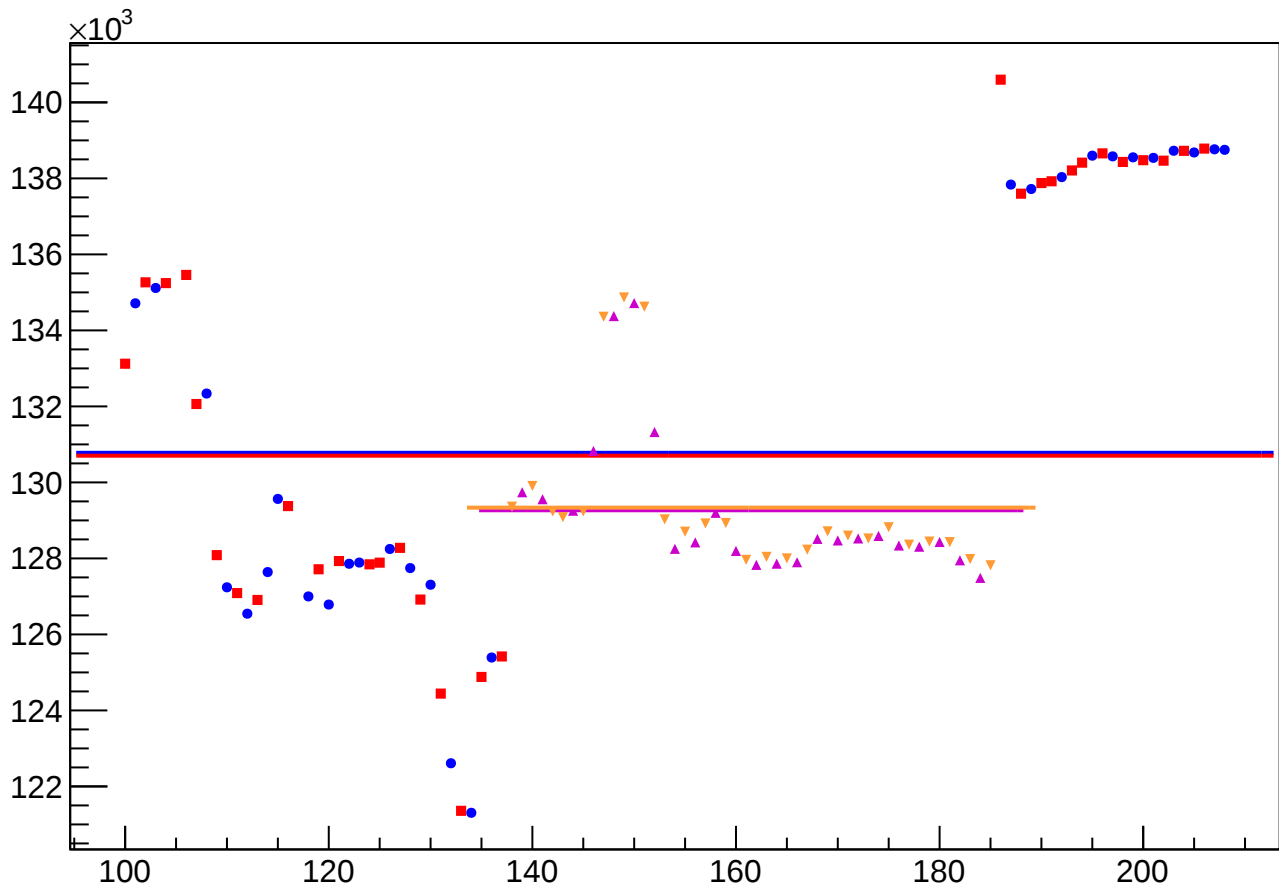
Right: 201.222 $\pm$ 0.029 χ^2 /NDF: 8718352.0/58

In: 200.495 $\pm$ 0.026 χ^2 /NDF: 4960541.6/50

Out: 197.500 $\pm$ 0.025 χ^2 /NDF: 5405369.0/55

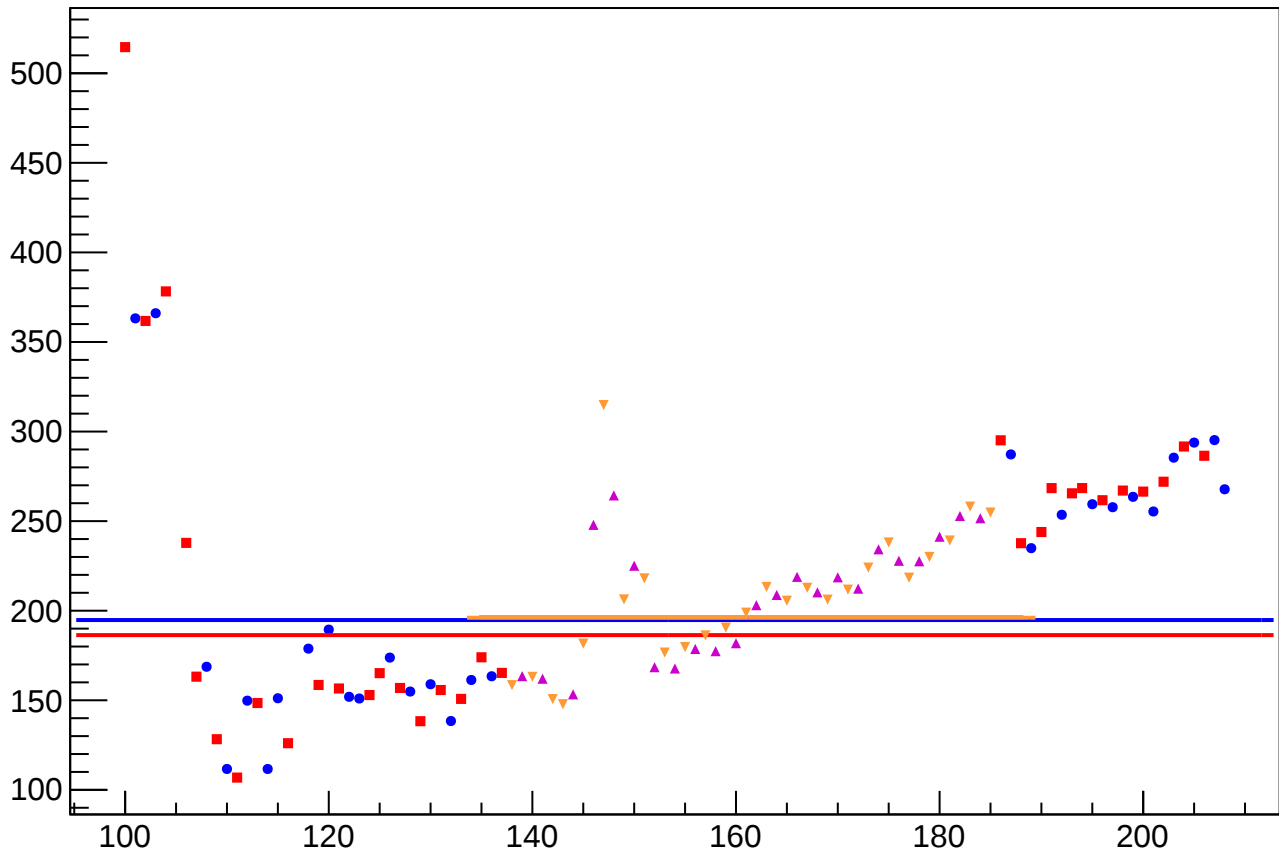
All: 198.938 $\pm$ 0.018 χ^2 /NDF: 10372563.5/100

yield_bpm0l05WS_mean vs Slug, Sign Corrected



Right In: 130778.592 $\pm$ 0.055	χ^2 /NDF: 11247641969.6/27	Left: 129302.466 $\pm$ 0.034	χ^2 /NDF: 2665755007.2/24
Left Out: 129335.946 $\pm$ 0.047	χ^2 /NDF: 1450933621.0/24	Right: 130738.562 $\pm$ 0.038	χ^2 /NDF: 22843498944.7/24
Right Out: 130702.829 $\pm$ 0.052	χ^2 /NDF: 11594840383.2/30	In: 129928.031 $\pm$ 0.036	χ^2 /NDF: 12892395248.7/24
Left In: 129266.909 $\pm$ 0.048	χ^2 /NDF: 1213762773.1/22	Out: 129951.756 $\pm$ 0.035	χ^2 /NDF: 13431289116.8/24
		All: 129940.391 $\pm$ 0.025	χ^2 /NDF: 263239092.2/24

yield_bpm0l05WS_rms vs Slug, Sign Corrected



Right In: 194.788+/-0.039 χ^2/NDF : 2644047.3/27

Left Out: 196.077+/-0.033 χ^2/NDF : 975710.9/24

Right Out: 186.377+/-0.036 χ^2/NDF : 3184950.9/30

Left In: 196.186+/-0.034 χ^2/NDF : 898058.0/22

Left: 196.130+/-0.024 χ^2/NDF : 1873774.2/47

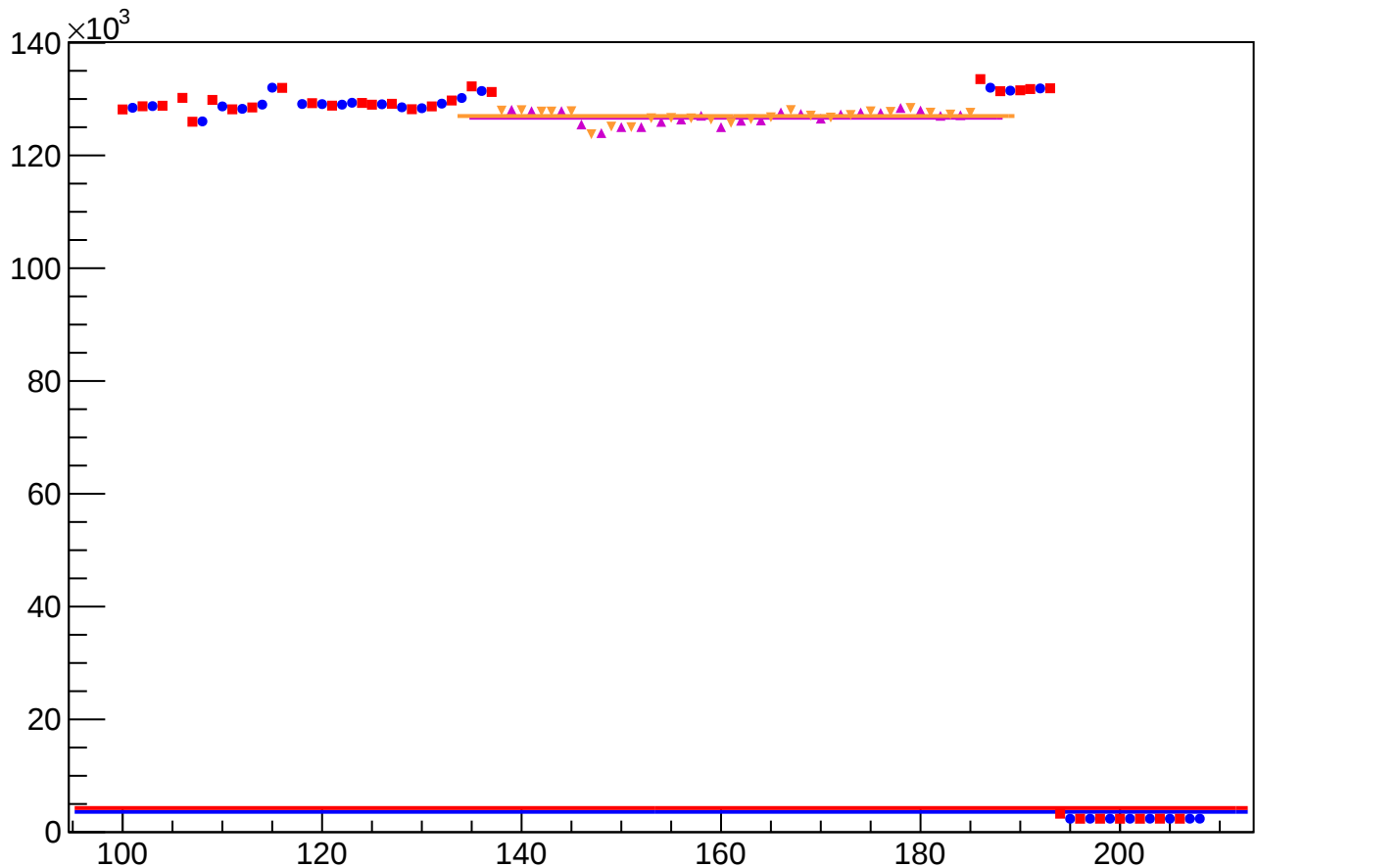
Right: 190.344+/-0.027 χ^2/NDF : 5854058.2/58

In: 195.575+/-0.026 χ^2/NDF : 3542842.8/50

Out: 191.707+/-0.024 χ^2/NDF : 4199496.1/55

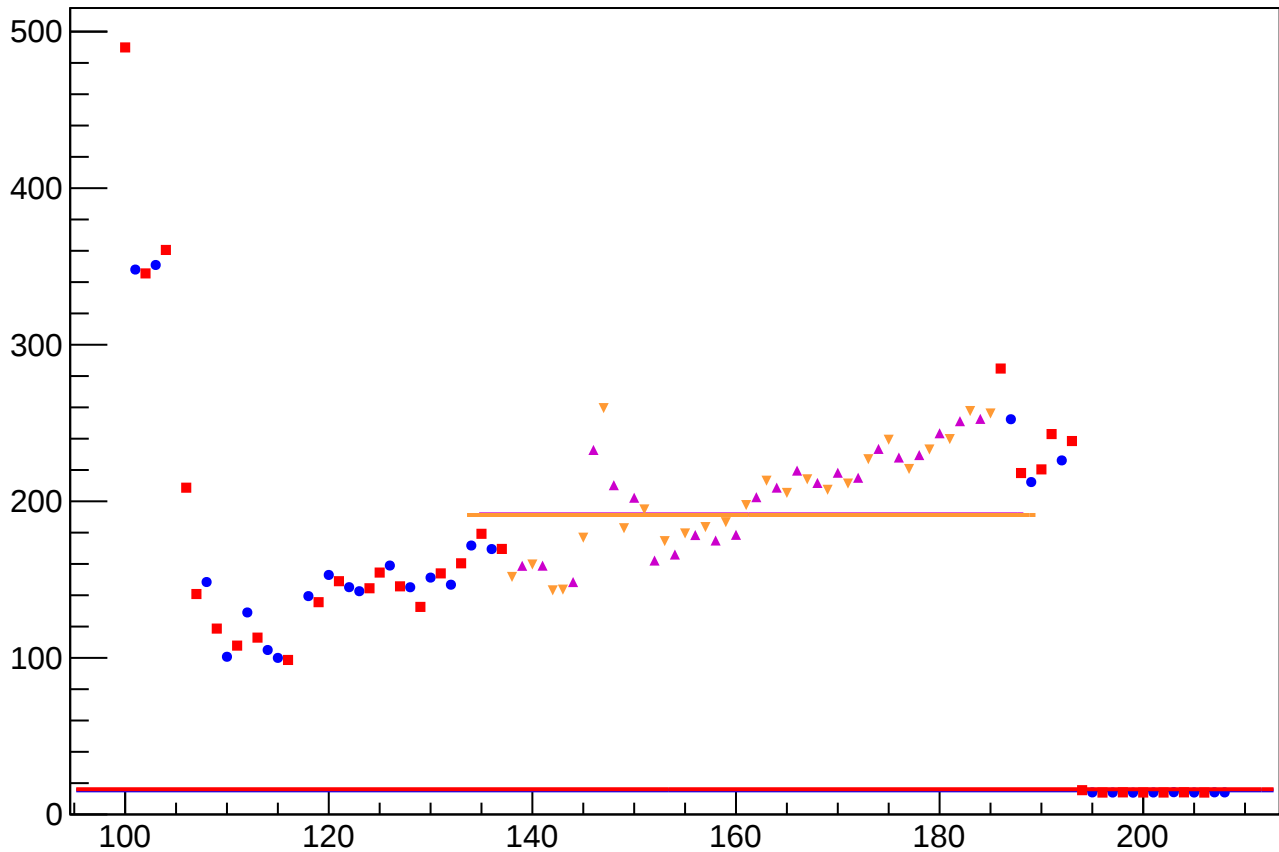
All: 193.560+/-0.018 χ^2/NDF : 7754284.2/106

yield_bpm0l06WS_mean vs Slug, Sign Corrected



Right In: 3612.635 $\pm$ 0.006	χ^2 /NDF: 4884050626210.3/27	Left: 126836.943 $\pm$ 0.033	χ^2 /NDF: 1211882944.2/4
Left Out: 126981.724 $\pm$ 0.046	χ^2 /NDF: 530573115.8/24	Right: 3909.225 $\pm$ 0.004	χ^2 /NDF: 10688898514169
Right Out: 4284.507 $\pm$ 0.006	χ^2 /NDF: 5798516629418.1/30	In: 5342.043 $\pm$ 0.006	χ^2 /NDF: 11647034828845.2
Left In: 126682.659 $\pm$ 0.047	χ^2 /NDF: 660415880.0/22	Out: 6598.004 $\pm$ 0.006	χ^2 /NDF: 12926724033579
		All: 5897.985 $\pm$ 0.004	χ^2 /NDF: 24596259658

yield_bpm0l06WS_rms vs Slug, Sign Corrected



Right In: 15.401 ± 0.004 $\chi^2/\text{NDF}: 13289508.8/27$

Left Out: 191.263 ± 0.032 $\chi^2/\text{NDF}: 992566.2/24$

Right Out: 16.106 ± 0.004 $\chi^2/\text{NDF}: 15546858.4/30$

Left In: 191.683 ± 0.033 $\chi^2/\text{NDF}: 864384.9/22$

Left: 191.466 ± 0.023 $\chi^2/\text{NDF}: 1857033.4/47$

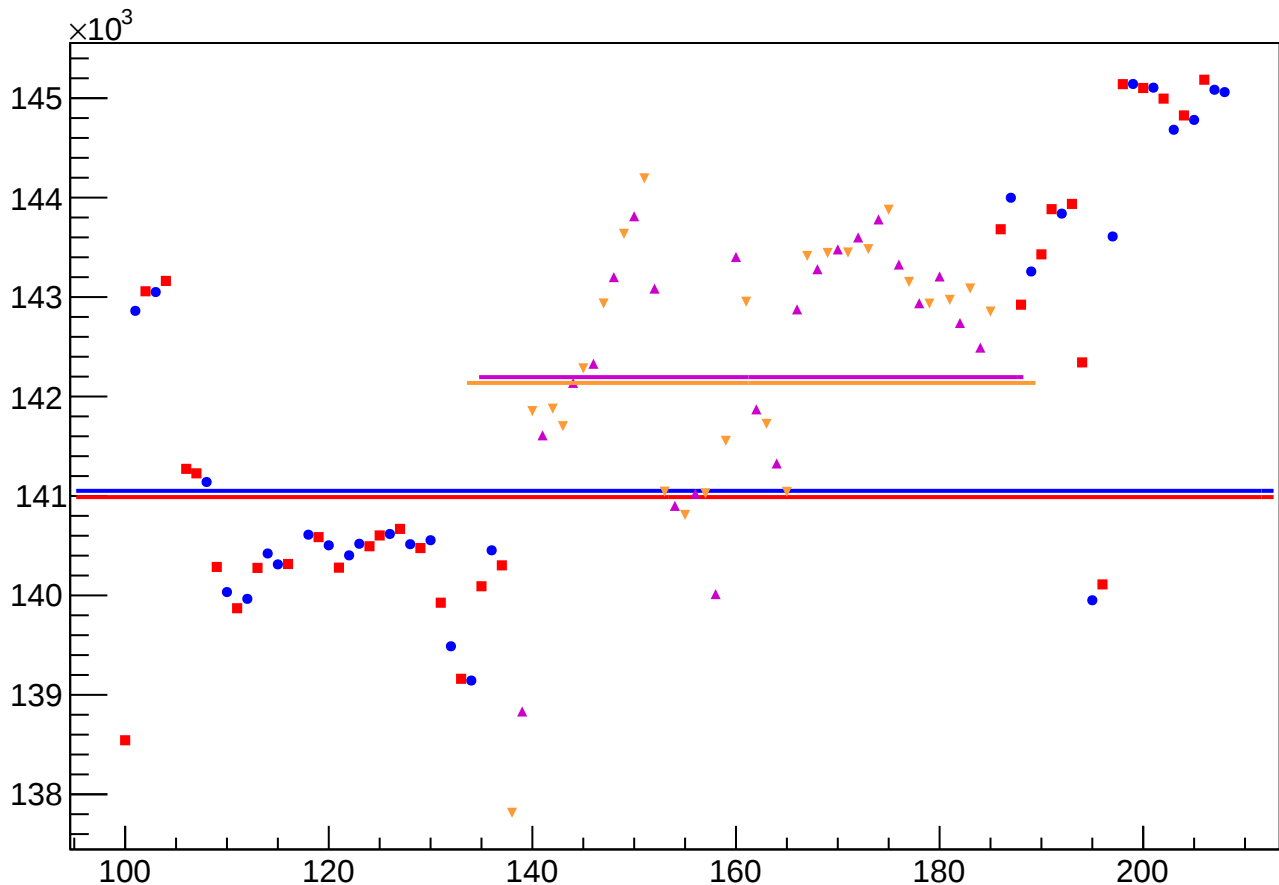
Right: 15.712 ± 0.003 $\chi^2/\text{NDF}: 28850326.3/58$

In: 17.878 ± 0.004 $\chi^2/\text{NDF}: 41902272.3/50$

Out: 19.409 ± 0.004 $\chi^2/\text{NDF}: 45590635.0/55$

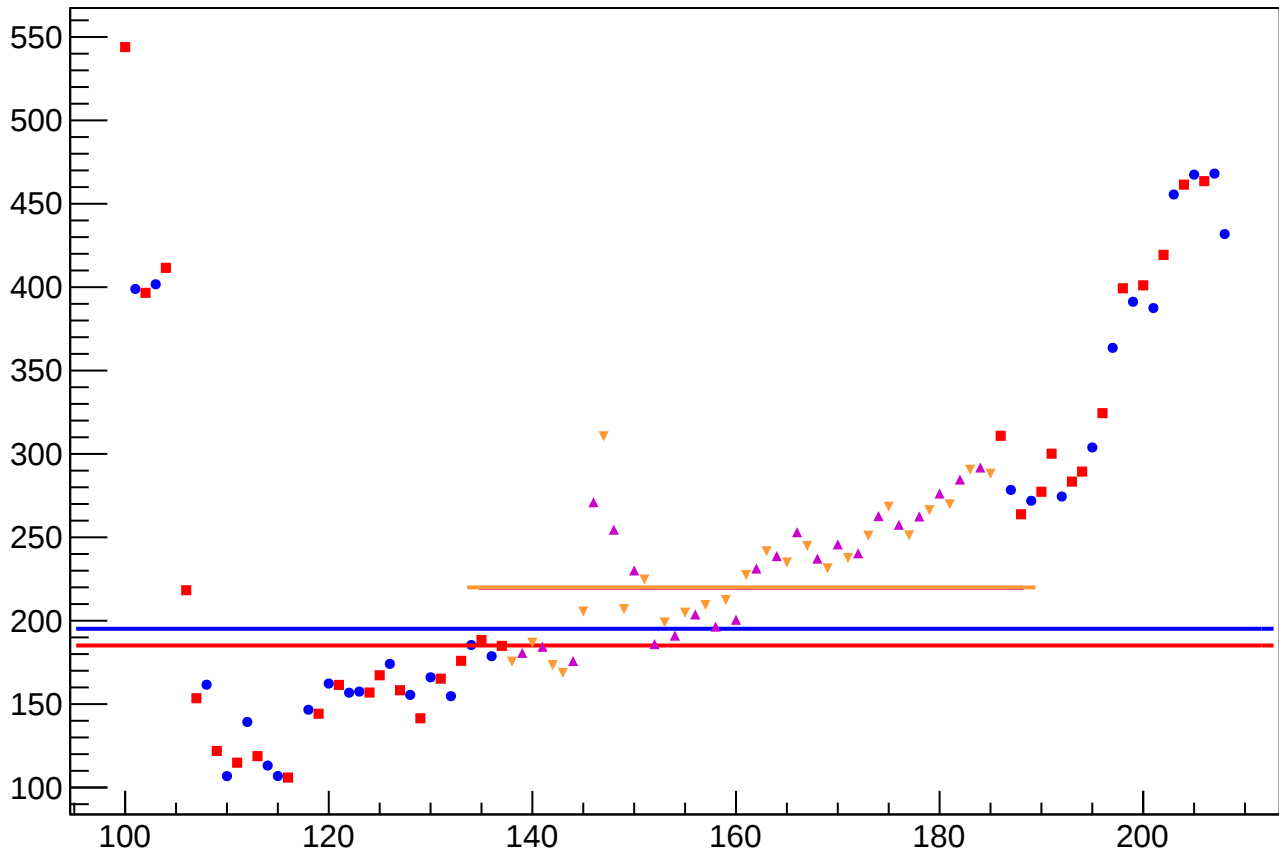
All: 18.555 ± 0.003 $\chi^2/\text{NDF}: 87559769.8/106$

yield_bpm0l07WS_mean vs Slug, Sign Corrected



Right In: 141051.616 $\pm$ 0.058	χ^2 /NDF: 769057147.5/27	Left: 142164.953 $\pm$ 0.038	χ^2 /NDF: 1460209902.9/4
Left Out: 142136.579 $\pm$ 0.052	χ^2 /NDF: 815573343.0/24	Right: 141017.785 $\pm$ 0.039	χ^2 /NDF: 1546994205.6/4
Right Out: 140988.696 $\pm$ 0.053	χ^2 /NDF: 777297496.9/30	In: 141662.522 $\pm$ 0.039	χ^2 /NDF: 1622955943.1/50
Left In: 142195.020 $\pm$ 0.054	χ^2 /NDF: 644030906.9/22	Out: 141575.328 $\pm$ 0.037	χ^2 /NDF: 1828175457.7/5
		All: 141616.695 $\pm$ 0.027	χ^2 /NDF: 345370922.0/10

yield_bpm0l07WS_rms vs Slug, Sign Corrected



Right In: 195.171+/-0.041 χ^2/NDF : 5437074.7/27

Left Out: 219.969+/-0.037 χ^2/NDF : 866616.3/24

Right Out: 185.145+/-0.038 χ^2/NDF : 5580733.8/30

Left In: 219.685+/-0.038 χ^2/NDF : 812745.1/22

Left: 219.831+/-0.027 χ^2/NDF : 1679390.1/47

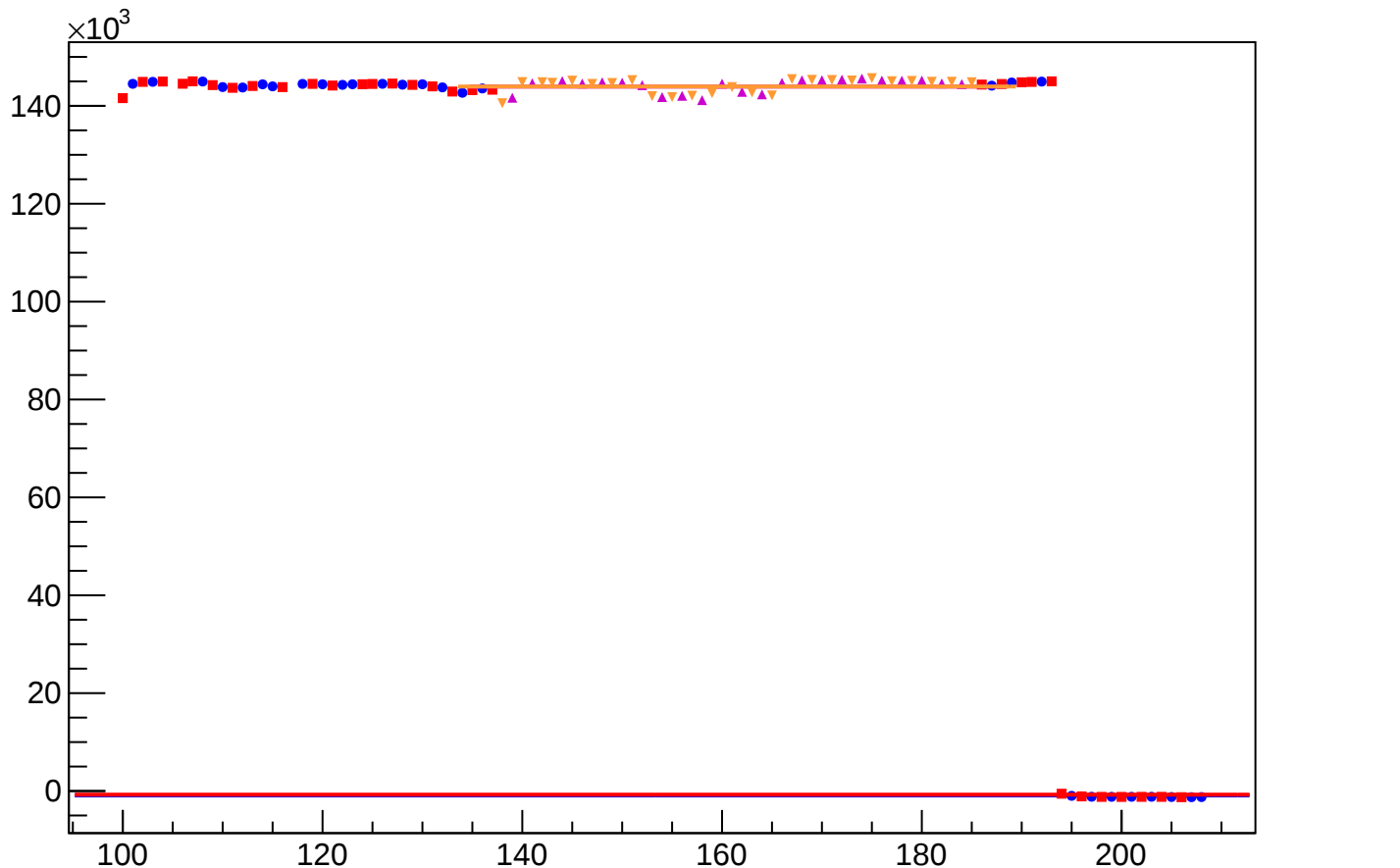
Right: 189.780+/-0.028 χ^2/NDF : 11050282.8/58

In: 208.268+/-0.028 χ^2/NDF : 6442749.1/50

Out: 202.942+/-0.026 χ^2/NDF : 6880480.0/55

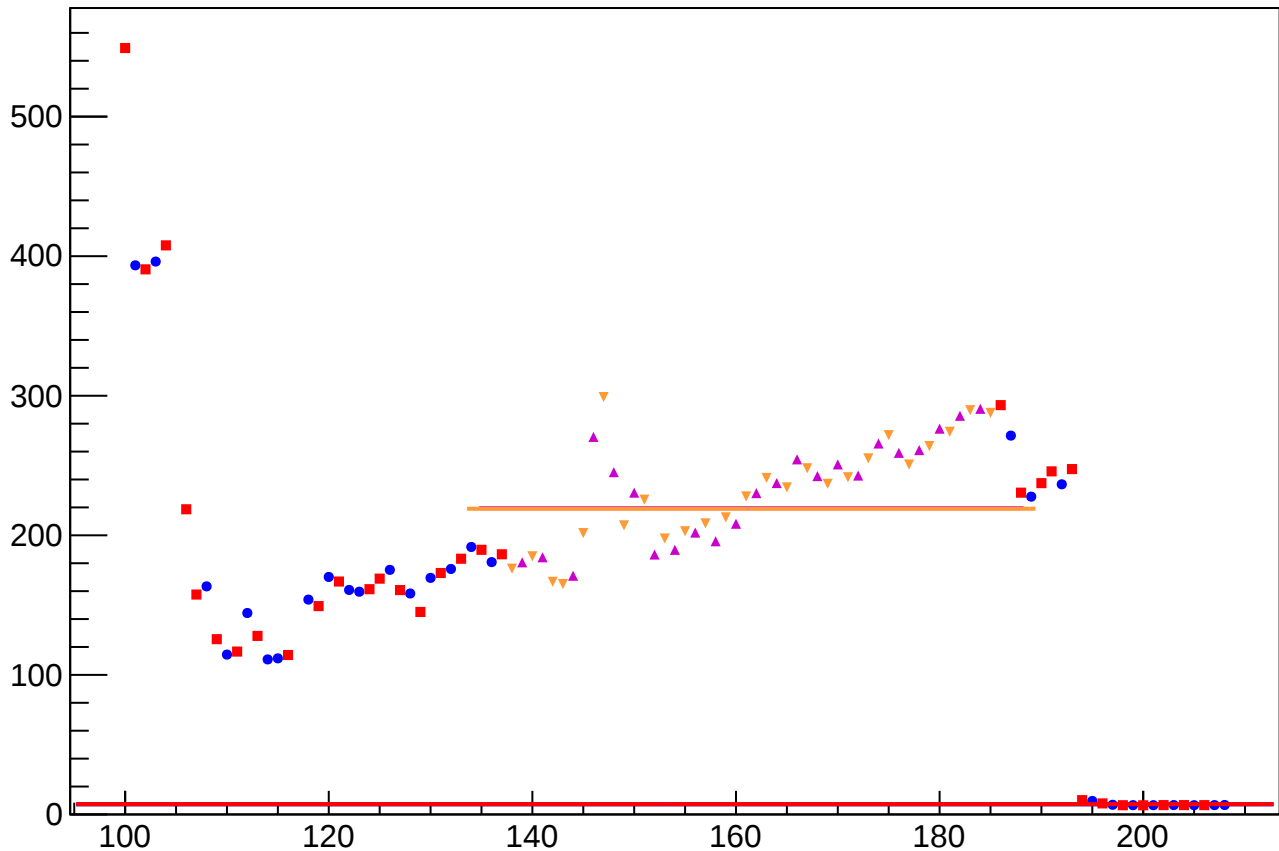
All: 205.469+/-0.019 χ^2/NDF : 13342464.7/10

yield_bpm0l08WS_mean vs Slug, Sign Corrected



Right In: -903.231 ± 0.003 $\chi^2/\text{NDF}: 5297596909411.1/27$ Left: 143944.995 ± 0.037 $\chi^2/\text{NDF}: 1584524299.4/27$
 Left Out: 143951.284 ± 0.052 $\chi^2/\text{NDF}: 864679545.2/24$ Right: -831.465 ± 0.002 $\chi^2/\text{NDF}: 11697310967641.1/24$
 Right Out: -741.038 ± 0.003 $\chi^2/\text{NDF}: 6398223513039.0/30$ In: -514.100 ± 0.003 $\chi^2/\text{NDF}: 12515843074110.9/30$
 Left In: 143938.288 ± 0.054 $\chi^2/\text{NDF}: 719814685.6/22$ Out: -219.130 ± 0.003 $\chi^2/\text{NDF}: 14073614876630.8/30$
 All: -383.518 ± 0.002 $\chi^2/\text{NDF}: 26594403663.0/100$

yield_bpm0l08WS_rms vs Slug, Sign Corrected



Right In: 7.244 $\pm$ 0.002 χ^2 /NDF: 14922108.5/27

Left Out: 219.050 $\pm$ 0.037 χ^2 /NDF:934417.6/24

Right Out: 7.382 $\pm$ 0.002 χ^2 /NDF: 17448110.6/30

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

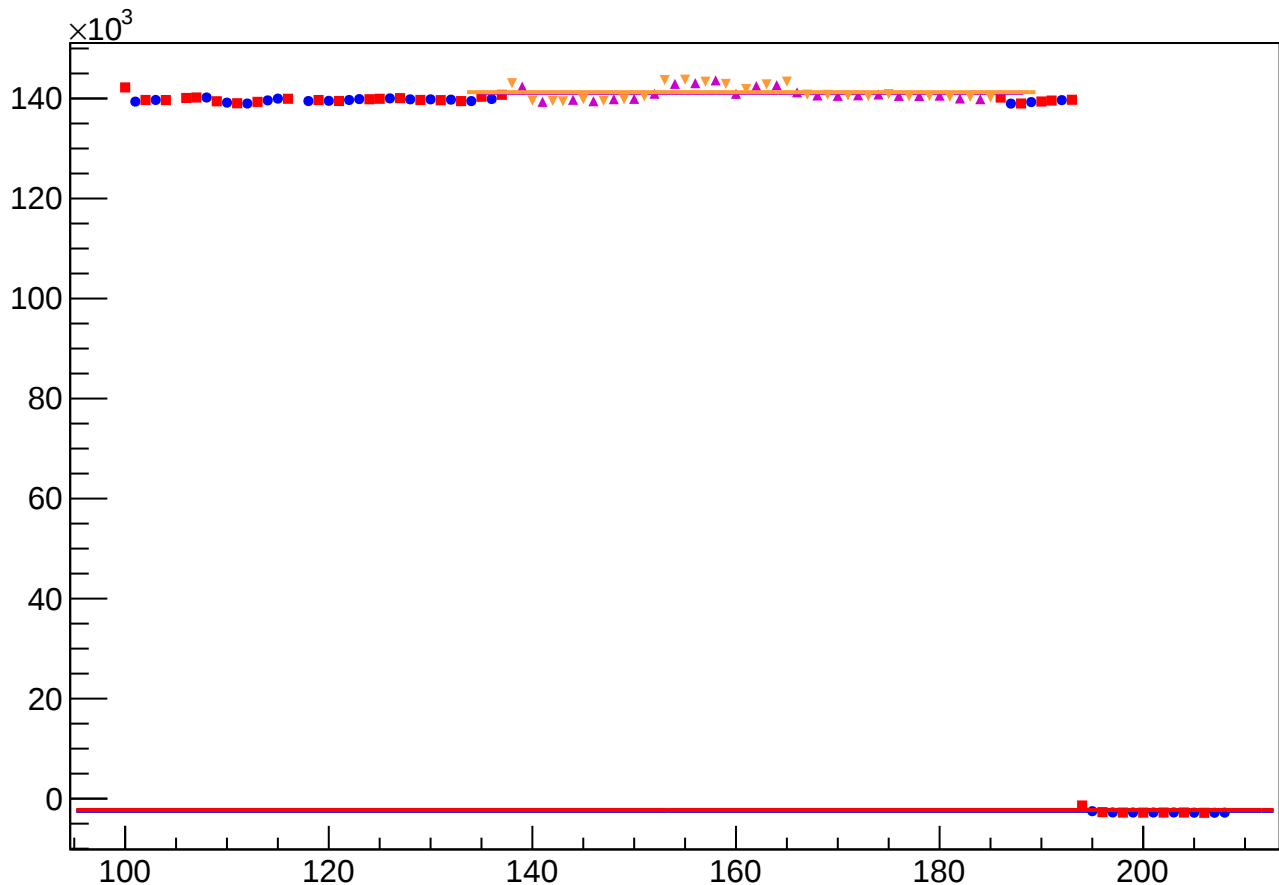
Right: 7.305 $\pm$ 0.001 χ^2 /NDF: 32372370.7/58

In: 7.814 $\pm$ 0.002 χ^2 /NDF:46749779.4/50

Out: 8.145 $\pm$ 0.002 χ^2 /NDF:51229839.1/55

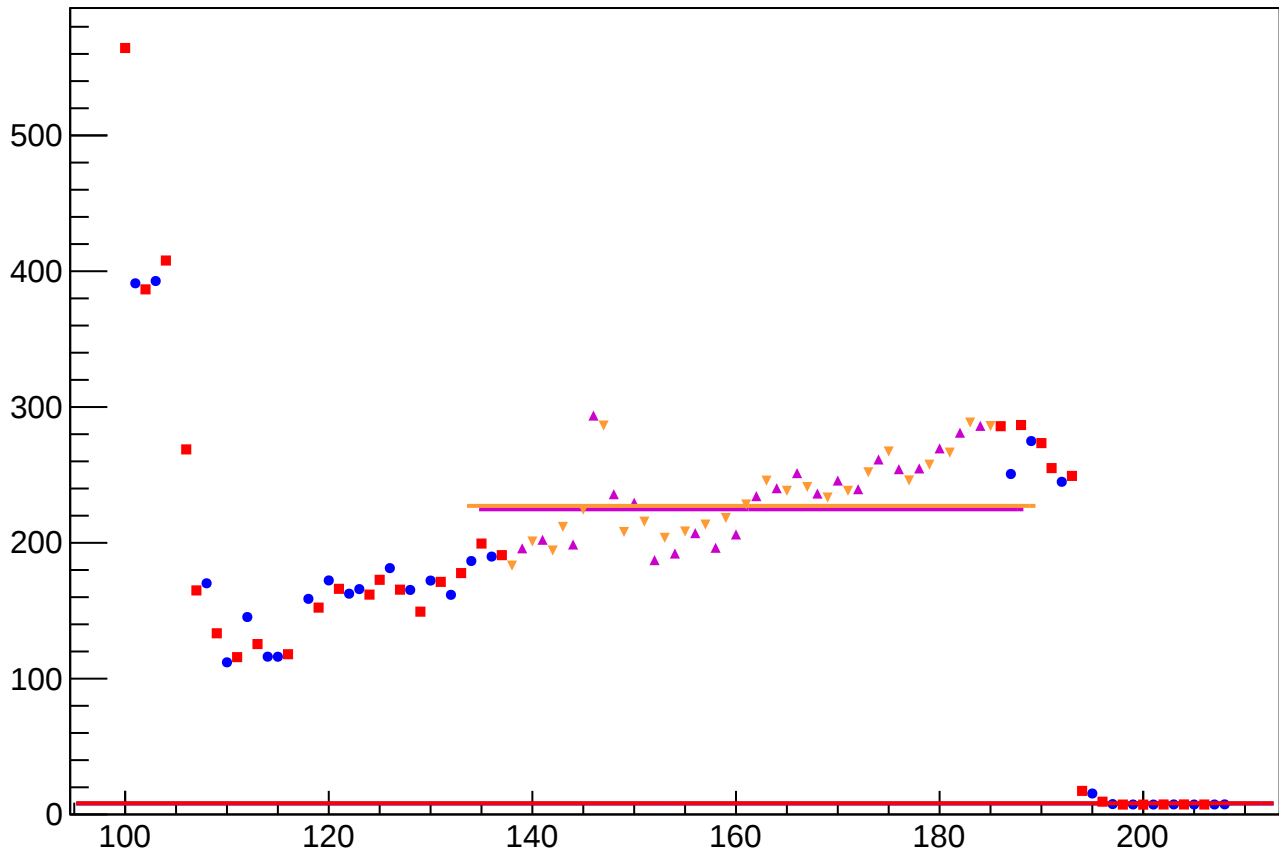
All: 7.961 $\pm$ 0.001 χ^2 /NDF: 97992091.5/106

yield_bpm0l09WS_mean vs Slug, Sign Corrected



Right In: -2439.074 $\pm$ 0.003	χ^2 /NDF: 4865909847419.4/27	Left: 141195.809 $\pm$ 0.038	χ^2 /NDF: 1365080862.2/4
Left Out: 141268.791 $\pm$ 0.054	χ^2 /NDF: 795989244.2/24	Right: -2359.917 $\pm$ 0.002	χ^2 /NDF: 1065427995028
Right Out: -2259.952 $\pm$ 0.004	χ^2 /NDF: 5786927842728.5/30	In: -1972.600 $\pm$ 0.003	χ^2 /NDF: 11678293652823.0
Left In: 141119.484 $\pm$ 0.055	χ^2 /NDF: 565312728.1/22	Out: -1644.644 $\pm$ 0.004	χ^2 /NDF: 12901167478439
		All: -1827.587 $\pm$ 0.002	χ^2 /NDF: 2458431452

yield_bpm0l09WS_rms vs Slug, Sign Corrected



Right In: 8.054 ± 0.002 χ^2/NDF : 15079846.2/27

Left Out: 227.224 ± 0.038 χ^2/NDF : 484955.3/24

Right Out: 8.232 ± 0.002 χ^2/NDF : 17484738.7/30

Left In: 224.686 ± 0.039 χ^2/NDF : 578366.0/22

Left: 225.984 ± 0.027 χ^2/NDF : 1065504.5/47

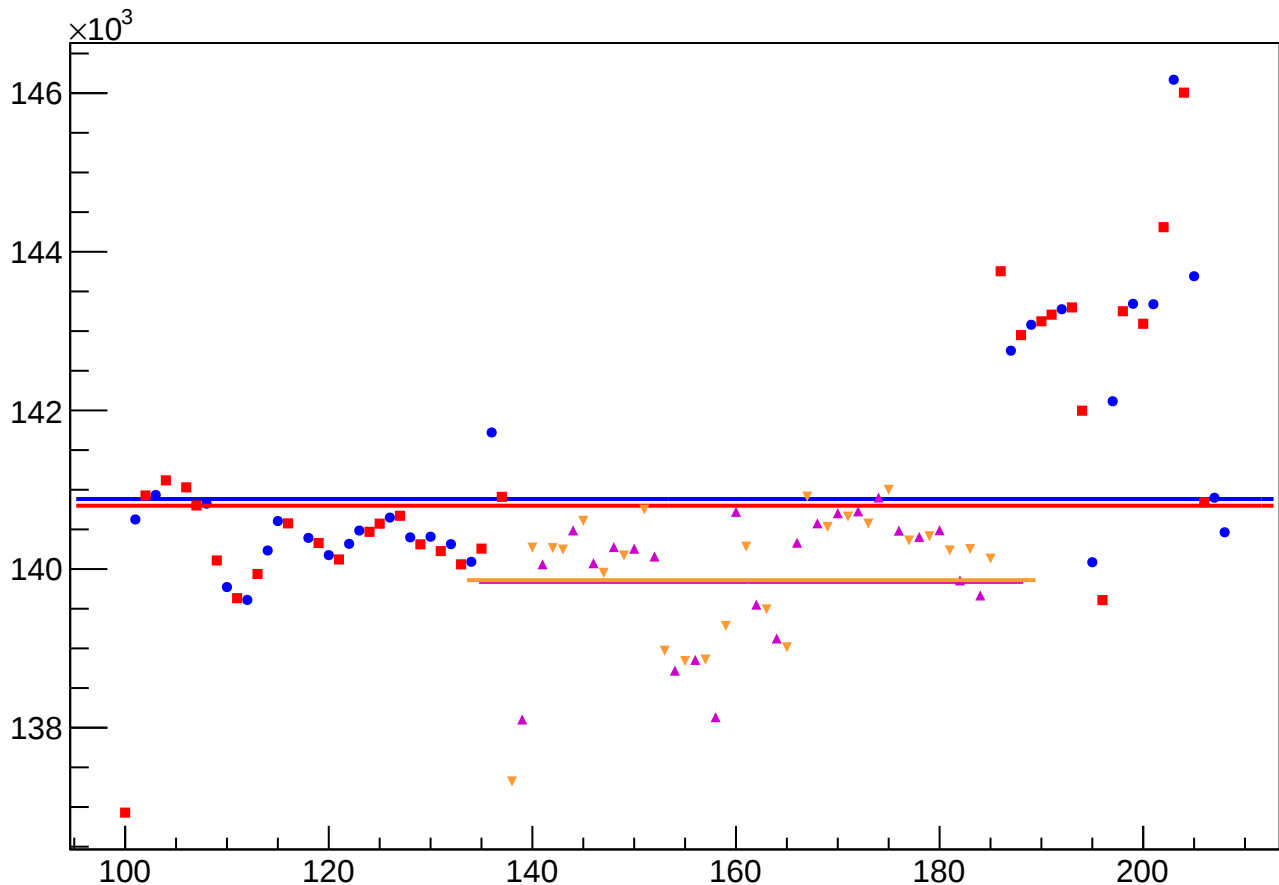
Right: 8.133 ± 0.002 χ^2/NDF : 32567445.7/58

In: 8.758 ± 0.002 χ^2/NDF : 46681032.8/50

Out: 9.171 ± 0.002 χ^2/NDF : 51089432.4/55

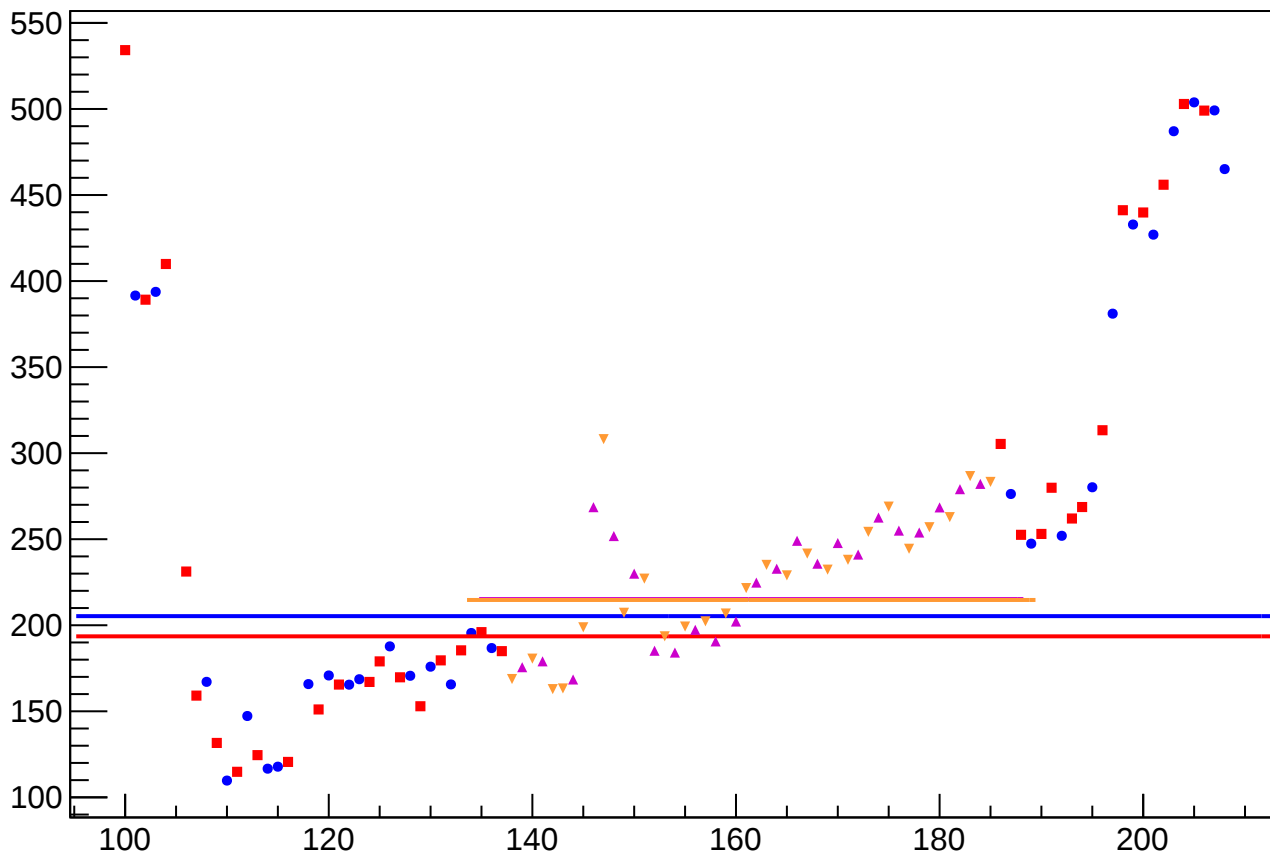
All: 8.941 ± 0.002 χ^2/NDF : 97785880.1/106

yield_bpm0l10WS_mean vs Slug, Sign Corrected



Right In: 140883.116 $\pm$ 0.060	χ^2 /NDF: 428740724.3/27	Left: 139849.553 $\pm$ 0.037	χ^2 /NDF: 609773442.9/47
Left Out: 139859.696 $\pm$ 0.051	χ^2 /NDF: 330118281.5/24	Right: 140837.483 $\pm$ 0.041	χ^2 /NDF: 934173467.8/50
Right Out: 140798.926 $\pm$ 0.056	χ^2 /NDF: 504381324.3/30	In: 140290.696 $\pm$ 0.040	χ^2 /NDF: 877642528.4/50
Left In: 139838.724 $\pm$ 0.053	χ^2 /NDF: 279573689.3/22	Out: 140290.049 $\pm$ 0.038	χ^2 /NDF: 989311988.2/55
		All: 140290.354 $\pm$ 0.027	χ^2 /NDF: 186695465.0/100

yield_bpm0l10WS_rms vs Slug, Sign Corrected



Right In: 205.295+/-0.043 χ^2/NDF : 5175910.2/27

Left Out: 214.693+/-0.036 χ^2/NDF : 981105.5/24

Right Out: 193.555+/-0.039 χ^2/NDF : 5211992.3/30

Left In: 215.222+/-0.037 χ^2/NDF : 881945.0/22

Left: 214.949+/-0.026 χ^2/NDF : 1863154.2/47

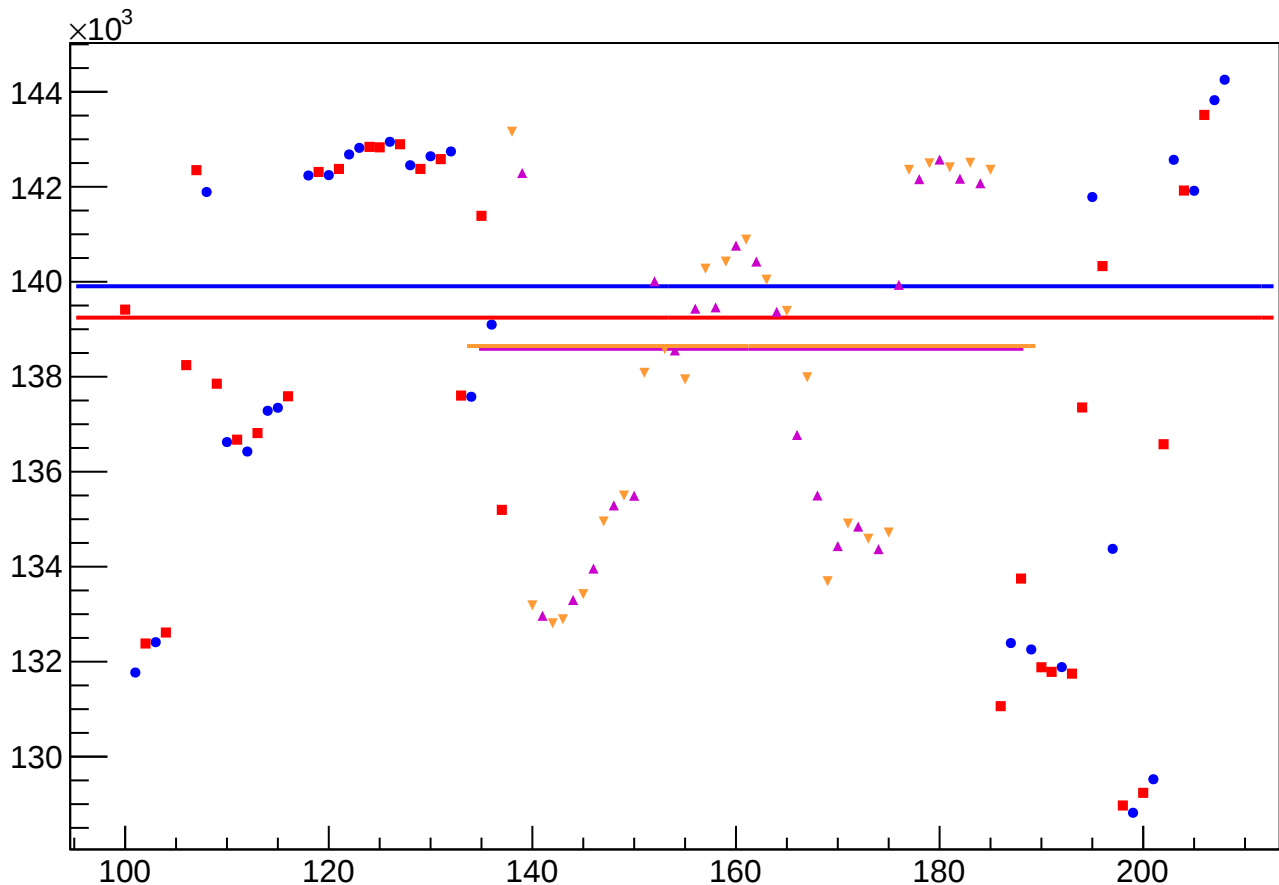
Right: 198.932+/-0.029 χ^2/NDF : 10428792.8/58

In: 210.926+/-0.028 χ^2/NDF : 6088449.5/50

Out: 205.007+/-0.027 χ^2/NDF : 6349917.9/55

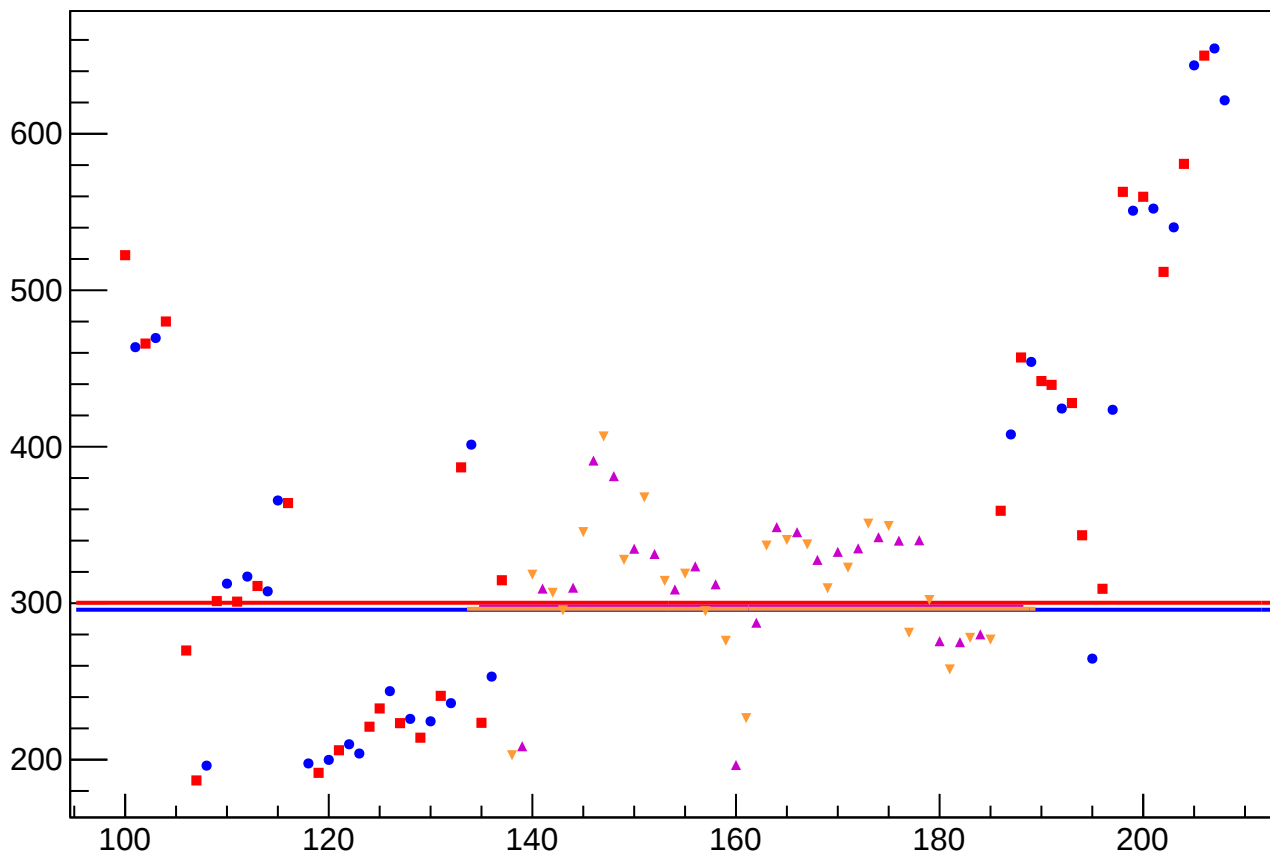
All: 207.802+/-0.019 χ^2/NDF : 12461750.7/10

yield_bpm0r03WS_mean vs Slug, Sign Corrected



Right In: 139905.186+/-0.086	χ^2/NDF : 2257007313.8/27	Left: 138618.660+/-0.051	χ^2/NDF : 4497021019.3/4
Left Out: 138646.366+/-0.071	χ^2/NDF : 2548637600.4/24	Right: 139569.131+/-0.060	χ^2/NDF : 4675690099.4/24
Right Out: 139244.852+/-0.084	χ^2/NDF : 2388418147.3/30	In: 139148.607+/-0.056	χ^2/NDF : 4340912587.5/50
Left In: 138588.711+/-0.074	χ^2/NDF : 1948065195.1/22	Out: 138894.752+/-0.054	χ^2/NDF : 4966669832.5/50
		All: 139017.865+/-0.039	χ^2/NDF : 931822548.0/100

yield_bpm0r03WS_rms vs Slug, Sign Corrected



Right In: 295.833+/-0.061 χ^2/NDF : 4120698.5/27

Left Out: 296.464+/-0.050 χ^2/NDF : 893579.7/24

Right Out: 300.288+/-0.059 χ^2/NDF : 3789937.0/30

Left In: 297.774+/-0.052 χ^2/NDF : 1061489.5/22

Left: 297.094+/-0.036 χ^2/NDF : 1955397.8/47

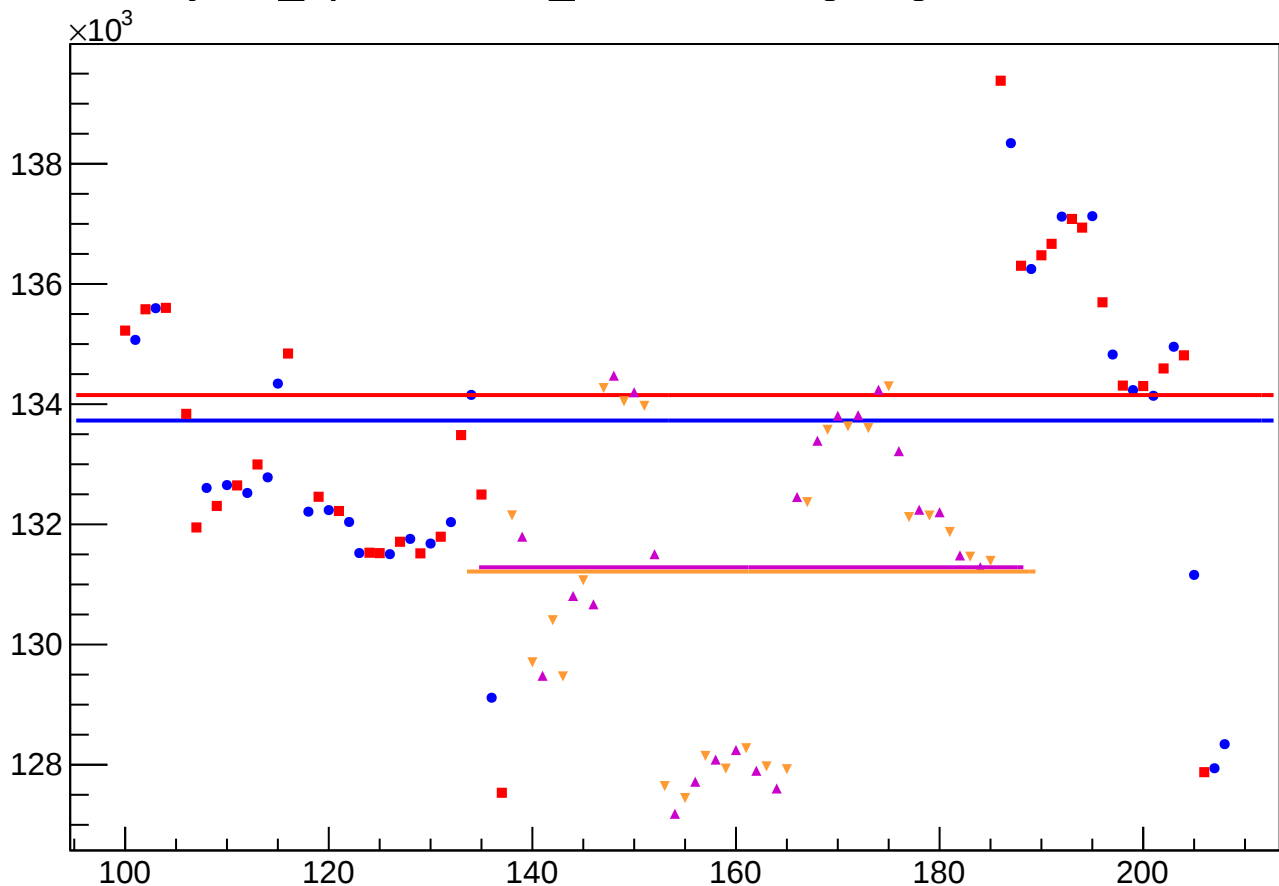
Right: 298.100+/-0.042 χ^2/NDF : 7913389.9/58

In: 296.949+/-0.039 χ^2/NDF : 5182778.6/50

Out: 298.051+/-0.038 χ^2/NDF : 4685934.0/55

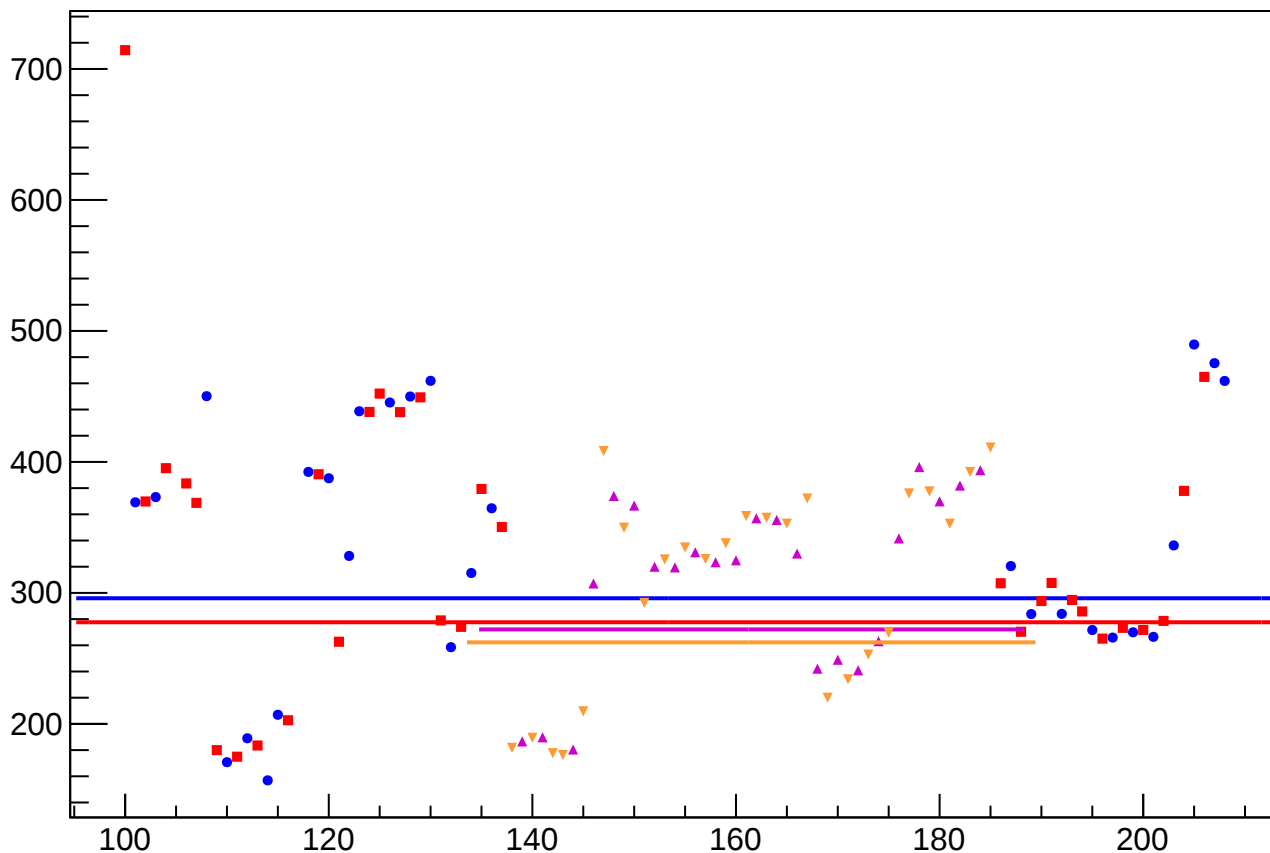
All: 297.517+/-0.027 χ^2/NDF : 9869114.0/106

yield_bpm0r05WS_mean vs Slug, Sign Corrected



Right In: 133727.847 $\pm$ 0.082	χ^2 /NDF: 837599697.4/27	Left: 131248.166 $\pm$ 0.047	χ^2 /NDF: 2230223308.9/4
Left Out: 131214.985 $\pm$ 0.064	χ^2 /NDF: 1173424494.6/24	Right: 133957.769 $\pm$ 0.055	χ^2 /NDF: 1702220198.9/4
Right Out: 134151.254 $\pm$ 0.075	χ^2 /NDF: 850136732.5/30	In: 132286.796 $\pm$ 0.052	χ^2 /NDF: 2417439251.0/50
Left In: 131285.623 $\pm$ 0.068	χ^2 /NDF: 1056232192.1/22	Out: 132455.293 $\pm$ 0.049	χ^2 /NDF: 2903978368.4/5
		All: 132377.041 $\pm$ 0.036	χ^2 /NDF: 532693620

yield_bpm0r05WS_rms vs Slug, Sign Corrected



Right In: 295.922 $\pm$ 0.058 χ^2 /NDF: 2261752.6/27

Left Out: 262.260 $\pm$ 0.045 χ^2 /NDF: 2818169.1/24

Right Out: 277.602 $\pm$ 0.053 χ^2 /NDF: 2082464.5/30

Left In: 272.115 $\pm$ 0.048 χ^2 /NDF: 2221925.0/22

Left: 266.889 $\pm$ 0.033 χ^2 /NDF: 5062151.8/47

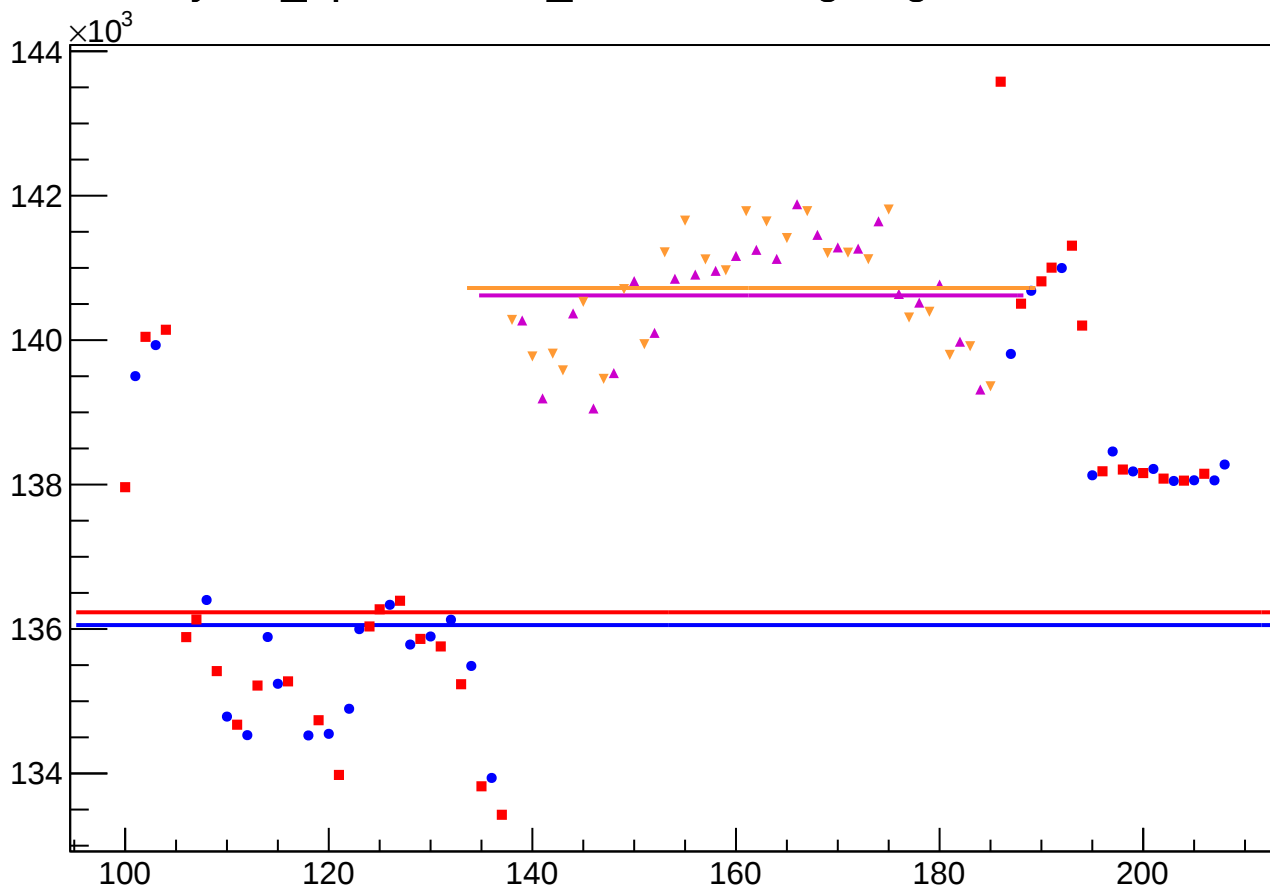
Right: 285.974 $\pm$ 0.039 χ^2 /NDF: 4398453.2/58

In: 281.875 $\pm$ 0.037 χ^2 /NDF: 4583195.6/50

Out: 268.740 $\pm$ 0.035 χ^2 /NDF: 4948705.0/55

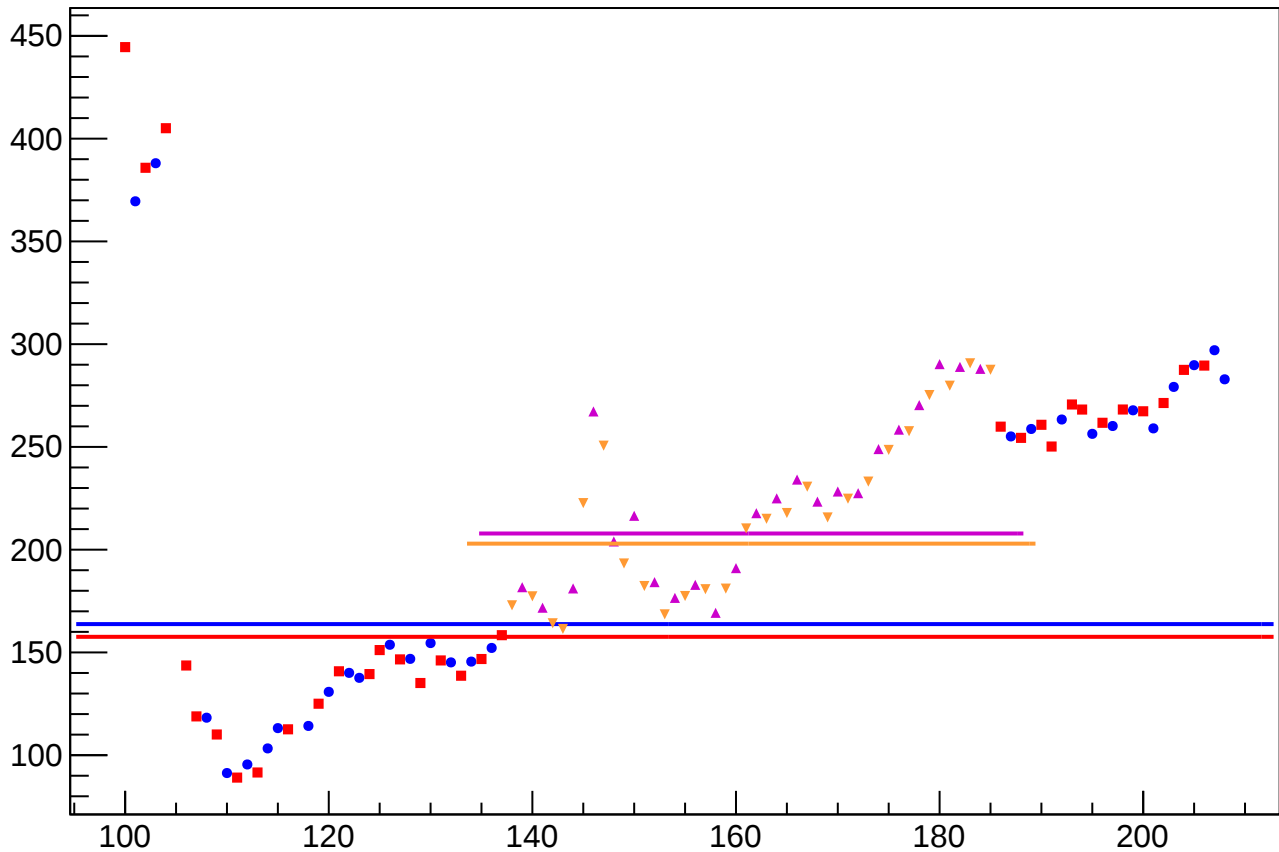
All: 274.840 $\pm$ 0.025 χ^2 /NDF: 9598965.1/106

yield_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 136054.553 $\pm$ 0.047 χ^2 /NDF: 1489693557.7/27
 Left Out: 140721.823 $\pm$ 0.048 χ^2 /NDF: 247257762.8/24
 Right Out: 136231.580 $\pm$ 0.045 χ^2 /NDF: 2095561785.8/30
 Left In: 140619.038 $\pm$ 0.051 χ^2 /NDF: 200370178.0/22
 Left: 140673.196 $\pm$ 0.035 χ^2 /NDF: 449761004.9/47
 Right: 136147.721 $\pm$ 0.033 χ^2 /NDF: 3592566722.8/47
 In: 138170.792 $\pm$ 0.035 χ^2 /NDF: 5972117401.5/50
 Out: 138316.149 $\pm$ 0.033 χ^2 /NDF: 6952793419.0/50
 All: 138247.334 $\pm$ 0.024 χ^2 /NDF: 129341060.0/100

yield_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 163.785 $\pm$ 0.034 χ^2 /NDF: 4550430.4/27

Left Out: 202.934 $\pm$ 0.034 χ^2 /NDF:1052283.6/24

Right Out: 157.593 $\pm$ 0.032 χ^2 /NDF: 4953100.1/30

Left In: 207.872 $\pm$ 0.036 χ^2 /NDF:949200.3/22

Left: 205.270 $\pm$ 0.025 χ^2 /NDF: 2011329.4/47

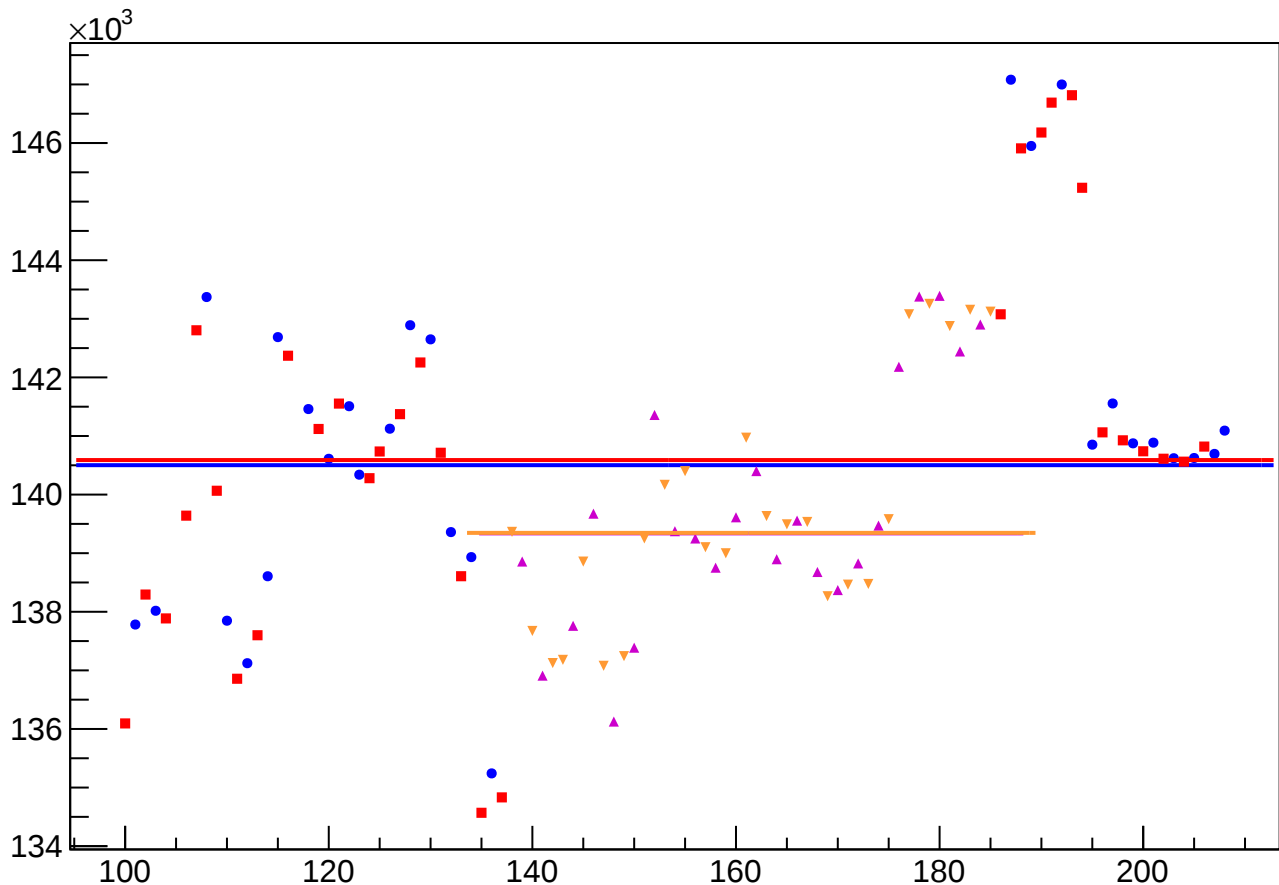
Right: 160.526 $\pm$ 0.023 χ^2 /NDF: 9521417.7/58

In: 184.225 $\pm$ 0.025 χ^2 /NDF:6298592.0/50

Out: 178.642 $\pm$ 0.023 χ^2 /NDF:6945476.0/55

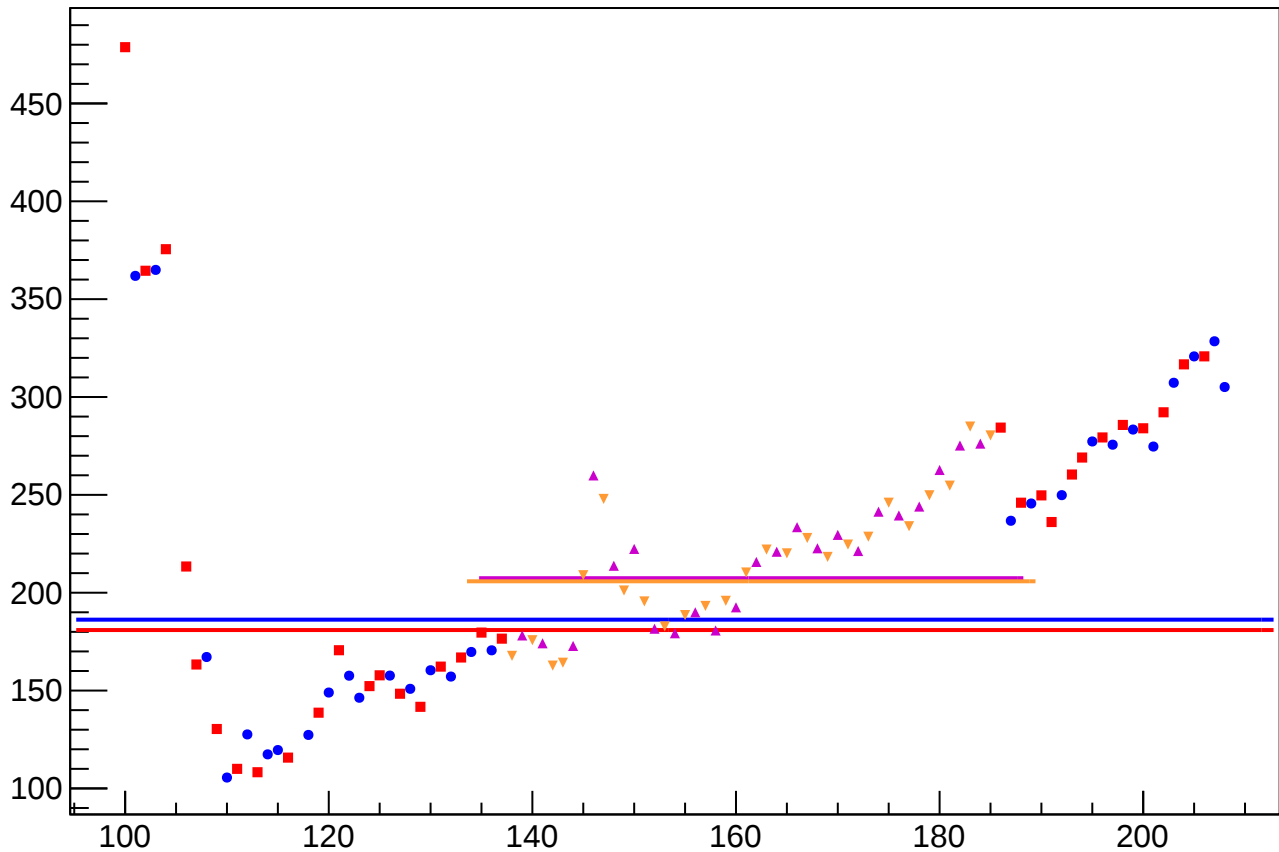
All: 181.285 $\pm$ 0.017 χ^2 /NDF: 13271193.5/100

yield_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 140501.959 $\pm$ 0.053	χ^2 /NDF: 2773668870.2/27	Left: 139342.403 $\pm$ 0.035	χ^2 /NDF: 2564192227.9/4
Left Out: 139346.604 $\pm$ 0.049	χ^2 /NDF: 1271172976.7/24	Right: 140547.657 $\pm$ 0.037	χ^2 /NDF: 5986869300.8/4
Right Out: 140589.375 $\pm$ 0.051	χ^2 /NDF: 3211778118.5/30	In: 139895.733 $\pm$ 0.037	χ^2 /NDF: 4317930426.1/50
Left In: 139337.874 $\pm$ 0.051	χ^2 /NDF: 1293003954.9/22	Out: 139947.138 $\pm$ 0.035	χ^2 /NDF: 4794233830.1/5
		All: 139922.499 $\pm$ 0.025	χ^2 /NDF: 911318648

yield_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 186.233+/-0.037 χ^2/NDF : 3602209.2/27

Left Out: 205.833+/-0.035 χ^2/NDF : 738666.4/24

Right Out: 180.926+/-0.036 χ^2/NDF : 3880995.7/30

Left In: 207.416+/-0.036 χ^2/NDF : 701955.3/22

Left: 206.595+/-0.025 χ^2/NDF : 1441628.2/47

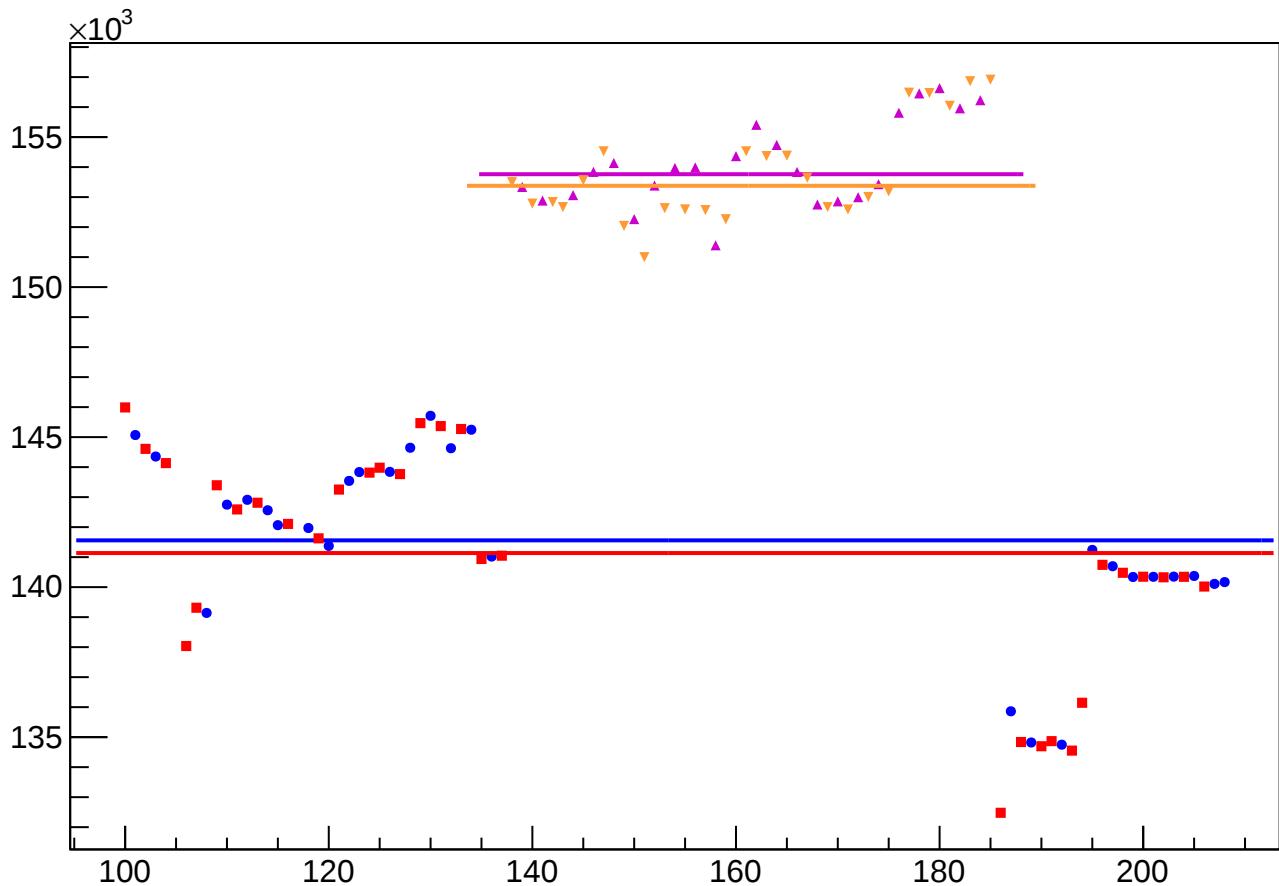
Right: 183.458+/-0.026 χ^2/NDF : 7493690.8/58

In: 197.265+/-0.026 χ^2/NDF : 4470569.1/50

Out: 193.797+/-0.025 χ^2/NDF : 4869728.2/55

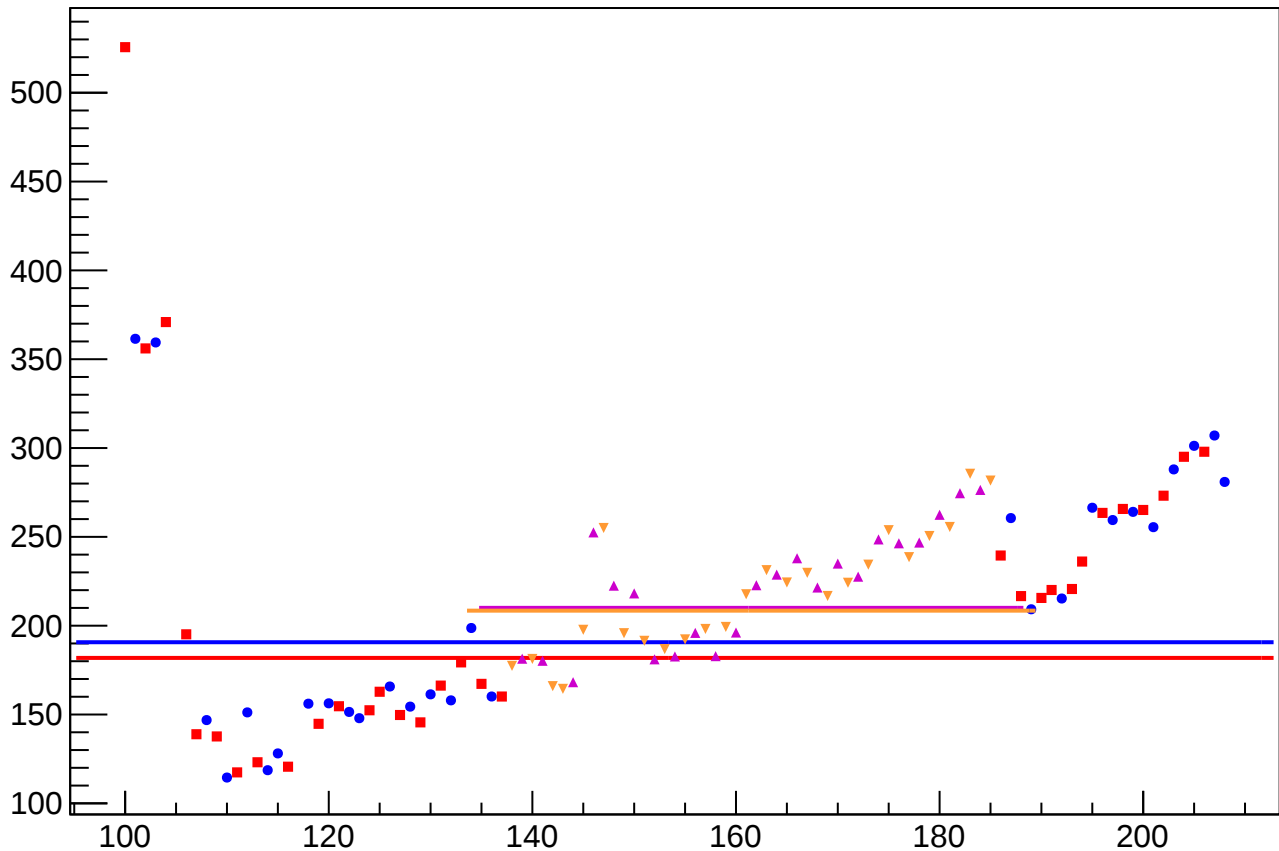
All: 195.459+/-0.018 χ^2/NDF : 9349600.4/106

yield_bpm0i05WS_mean vs Slug, Sign Corrected



Right In: 141559.093 $\pm$ 0.053	χ^2 /NDF: 2708513230.6/27	Left: 153562.262 $\pm$ 0.036	χ^2 /NDF: 1468093411.3/4
Left Out: 153376.698 $\pm$ 0.050	χ^2 /NDF: 803848095.1/24	Right: 141333.877 $\pm$ 0.036	χ^2 /NDF: 7172074867.2/5
Right Out: 141136.139 $\pm$ 0.050	χ^2 /NDF: 4430025122.1/30	In: 147876.059 $\pm$ 0.037	χ^2 /NDF: 30483814776.2/5
Left In: 153762.419 $\pm$ 0.051	χ^2 /NDF: 635075685.0/22	Out: 147305.934 $\pm$ 0.035	χ^2 /NDF: 35517402584.5
		All: 147576.426 $\pm$ 0.025	χ^2 /NDF: 661259034

yield_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 190.690 $\pm$ 0.038 χ^2 /NDF: 2663382.2/27

Left Out: 208.466 $\pm$ 0.035 χ^2 /NDF: 720894.7/24

Right Out: 181.863 $\pm$ 0.035 χ^2 /NDF: 2851834.0/30

Left In: 210.038 $\pm$ 0.036 χ^2 /NDF: 702369.5/22

Left: 209.222 $\pm$ 0.025 χ^2 /NDF: 1424233.1/47

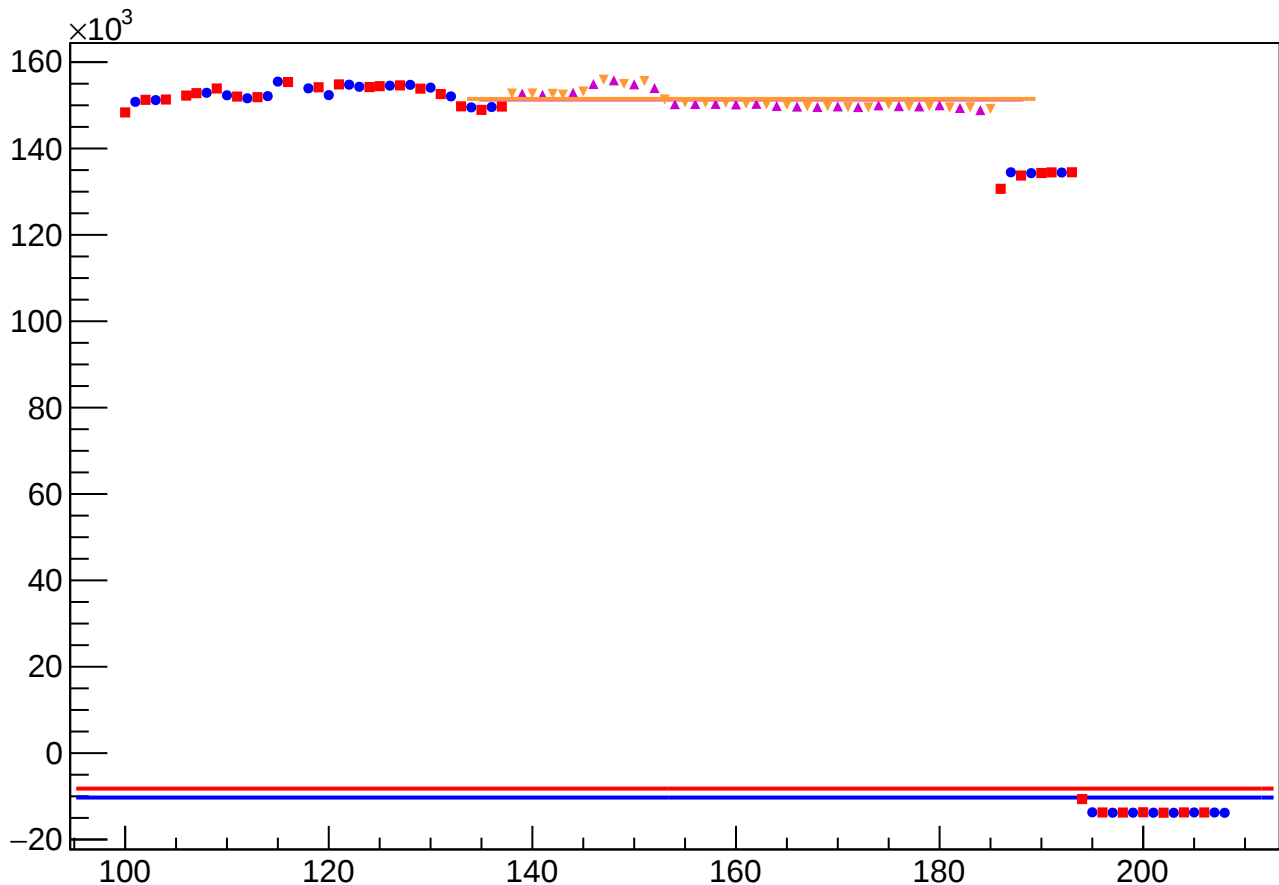
Right: 185.990 $\pm$ 0.026 χ^2 /NDF: 5544429.6/58

In: 200.705 $\pm$ 0.026 χ^2 /NDF: 3502196.5/50

Out: 195.272 $\pm$ 0.025 χ^2 /NDF: 3858812.7/55

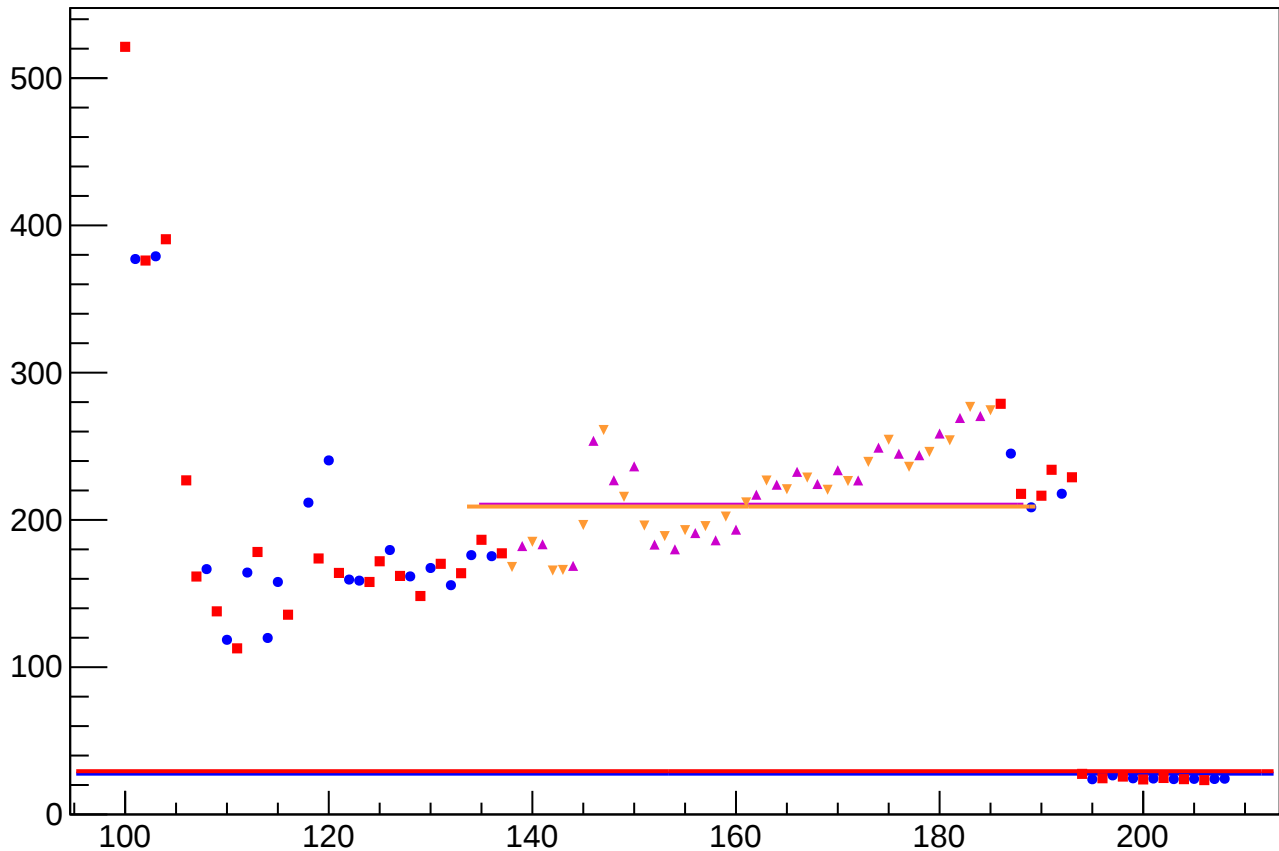
All: 197.850 $\pm$ 0.018 χ^2 /NDF: 7383656.4/106

yield_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -10283.567 $\pm$ 0.010	χ^2/NDF : 5886267257225.0/27	Left: 151425.512 $\pm$ 0.036	χ^2/NDF : 2906409079.9/4
Left Out: 151483.385 $\pm$ 0.050	χ^2/NDF : 1481910066.9/24	Right: -9360.210 $\pm$ 0.007	χ^2/NDF : 1303913001479.0/27
Right Out: -8211.852 $\pm$ 0.011	χ^2/NDF : 7132715559341.8/30	In: -4675.995 $\pm$ 0.010	χ^2/NDF : 15434462386628.3/30
Left In: 151363.165 $\pm$ 0.051	χ^2/NDF : 1421662089.0/22	Out: -875.886 $\pm$ 0.011	χ^2/NDF : 17055230458288.8/30
		All: -2971.287 $\pm$ 0.007	χ^2/NDF : 3256037243.0/30

yield_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 27.708+/-0.007 χ^2/NDF : 11568555.9/27

Left Out: 209.076+/-0.035 χ^2/NDF : 708260.3/24

Right Out: 29.374+/-0.008 χ^2/NDF : 13463371.6/30

Left In: 210.345+/-0.036 χ^2/NDF : 677747.7/22

Left: 209.687+/-0.025 χ^2/NDF : 1386640.1/47

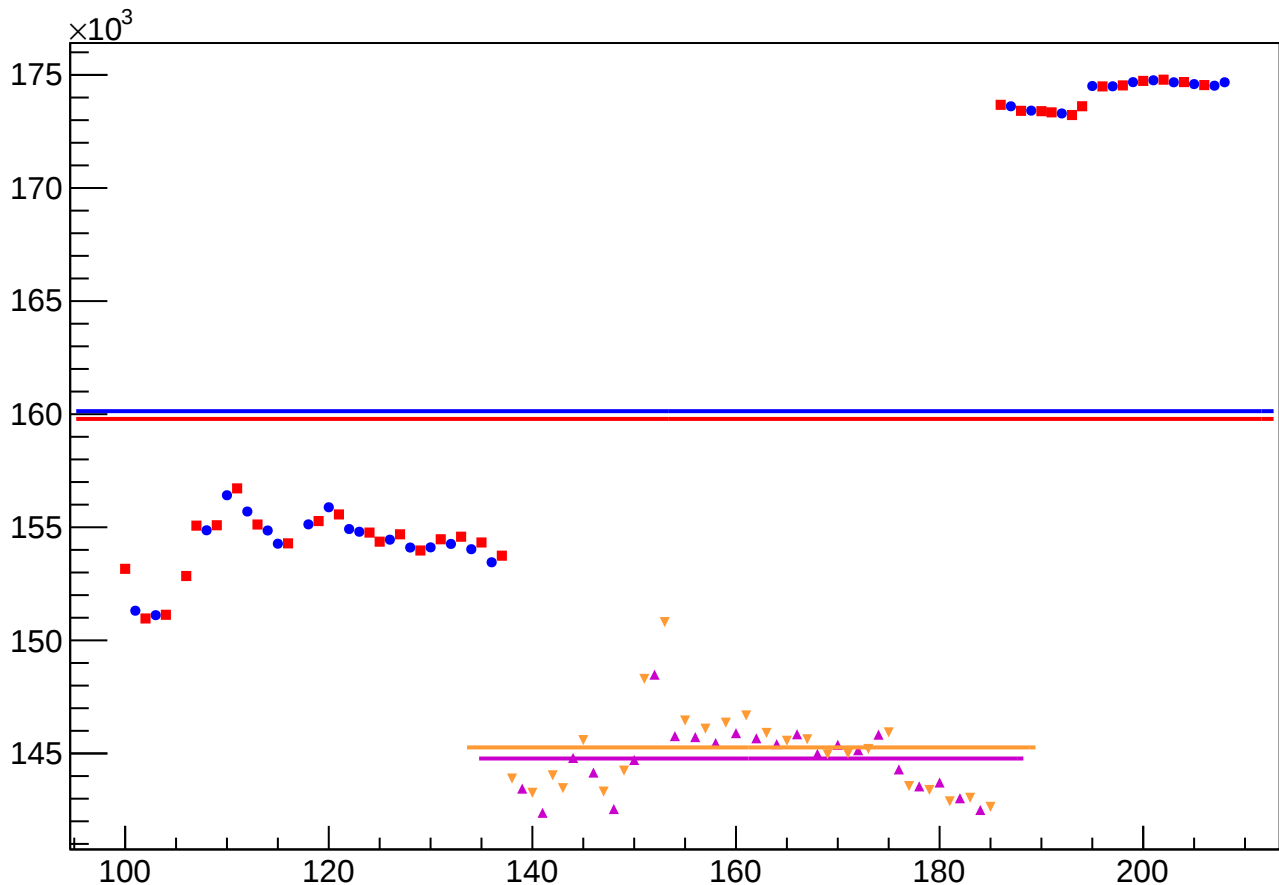
Right: 28.450+/-0.005 χ^2/NDF : 25057990.6/58

In: 34.043+/-0.007 χ^2/NDF : 36620550.5/50

Out: 37.629+/-0.008 χ^2/NDF : 39296828.6/55

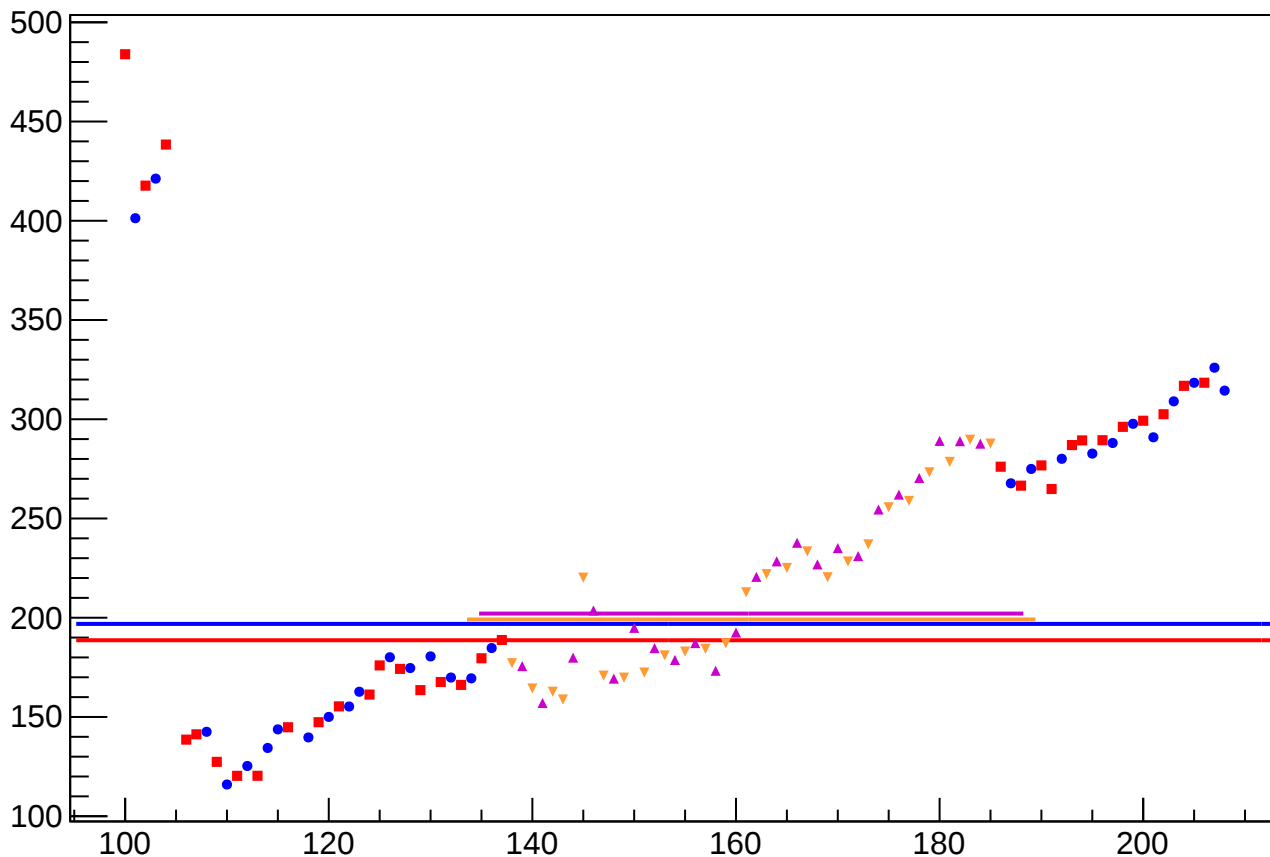
All: 35.652+/-0.005 χ^2/NDF : 76043220.5/106

yield_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: 160133.881 $\pm$ 0.056	χ^2 /NDF: 24678503999.1/27	Left: 145032.324 $\pm$ 0.034	χ^2 /NDF: 2687033506.0/24
Left Out: 145266.717 $\pm$ 0.047	χ^2 /NDF: 1717707352.7/24	Right: 159951.487 $\pm$ 0.038	χ^2 /NDF: 50799440974.1/24
Right Out: 159790.320 $\pm$ 0.052	χ^2 /NDF: 26100811442.6/30	In: 151548.527 $\pm$ 0.037	χ^2 /NDF: 67943561574.7/30
Left In: 144776.016 $\pm$ 0.050	χ^2 /NDF: 918120275.4/22	Out: 151794.534 $\pm$ 0.035	χ^2 /NDF: 70027144361.5/22
		All: 151677.962 $\pm$ 0.026	χ^2 /NDF: 137993896.0/22

yield_bpm1i02WS_rms vs Slug, Sign Corrected



Right In: 196.891+/-0.039 χ^2/NDF : 3569417.9/27

Left Out: 199.118+/-0.034 χ^2/NDF : 1152231.0/24

Right Out: 188.658+/-0.037 χ^2/NDF : 3881903.5/30

Left In: 202.090+/-0.035 χ^2/NDF : 1057833.2/22

Left: 200.538+/-0.024 χ^2/NDF : 2213821.5/47

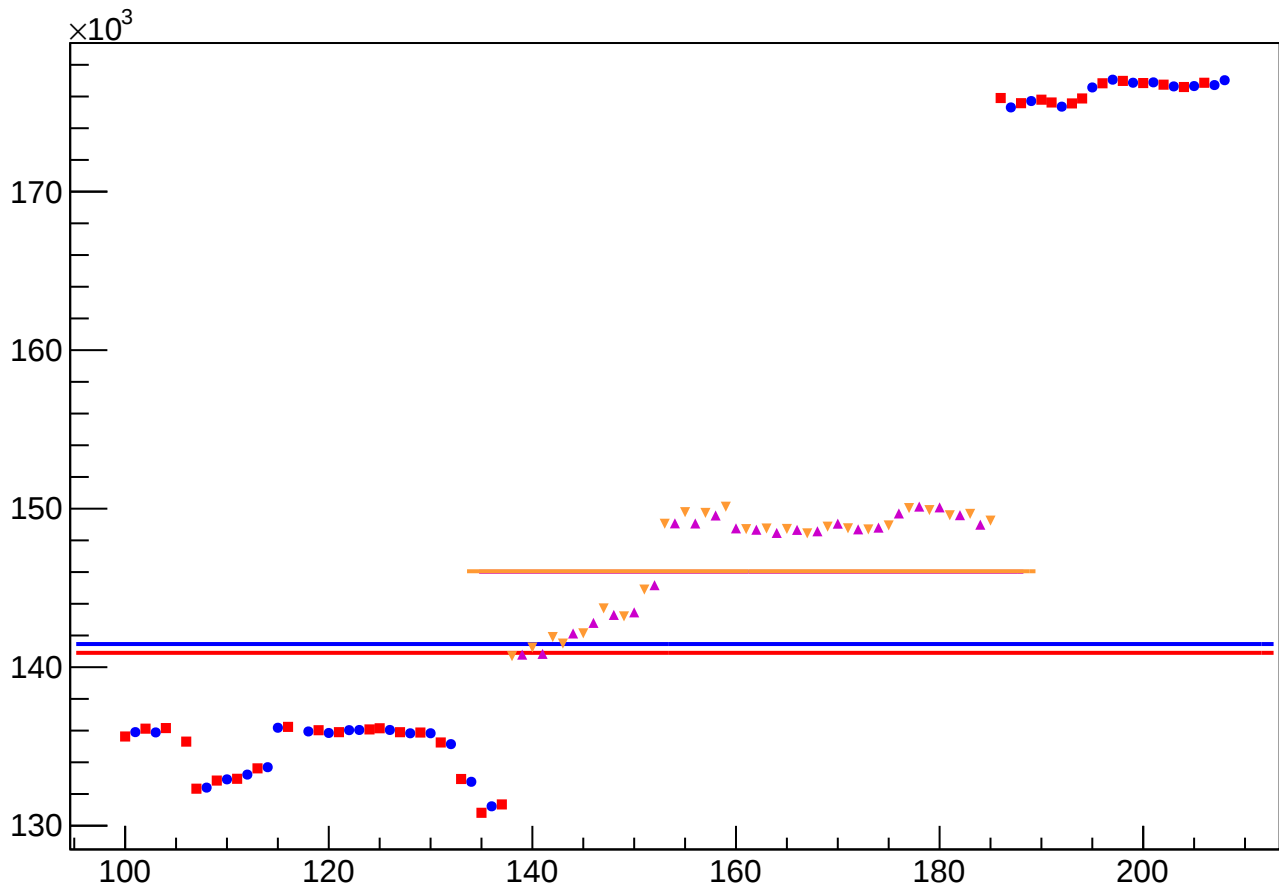
Right: 192.520+/-0.027 χ^2/NDF : 7474435.6/58

In: 199.797+/-0.026 χ^2/NDF : 4636957.5/50

Out: 194.417+/-0.025 χ^2/NDF : 5077921.0/55

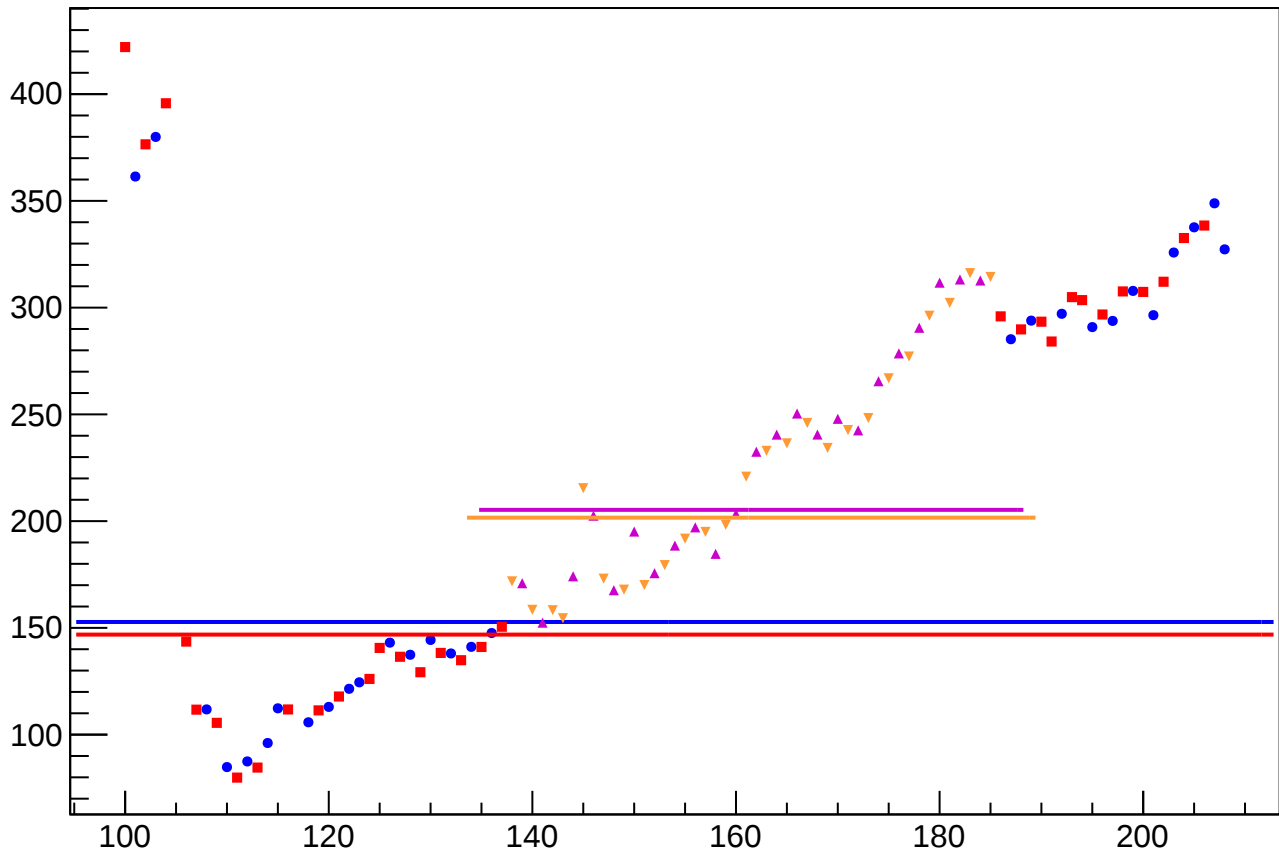
All: 196.966+/-0.018 χ^2/NDF : 9737067.8/106

yield_bpm1i04WS_mean vs Slug, Sign Corrected



Right In: 141460.347 $\pm$ 0.046	χ^2 /NDF: 120218324189.5/27	Left: 146036.626 $\pm$ 0.035	χ^2 /NDF: 9994930852.8/4
Left Out: 146051.733 $\pm$ 0.048	χ^2 /NDF: 5403300123.1/24	Right: 141167.491 $\pm$ 0.032	χ^2 /NDF: 247977001699
Right Out: 140905.349 $\pm$ 0.043	χ^2 /NDF: 127681605240.7/30	In: 143517.382 $\pm$ 0.034	χ^2 /NDF: 129257349486.5
Left In: 146020.015 $\pm$ 0.051	χ^2 /NDF: 4591425371.4/22	Out: 143206.887 $\pm$ 0.032	χ^2 /NDF: 139359575505.
		All: 143354.094 $\pm$ 0.023	χ^2 /NDF: 268660727

yield_bpm1i04WS_rms vs Slug, Sign Corrected



Right In: 152.765 $\pm$ 0.032 χ^2 /NDF: 6282356.0/27

Left Out: 201.632 $\pm$ 0.034 χ^2 /NDF:1589564.0/24

Right Out: 146.856 $\pm$ 0.031 χ^2 /NDF: 6719193.4/30

Left In: 205.286 $\pm$ 0.036 χ^2 /NDF:1425292.7/22

Left: 203.372 $\pm$ 0.025 χ^2 /NDF: 3020309.5/47

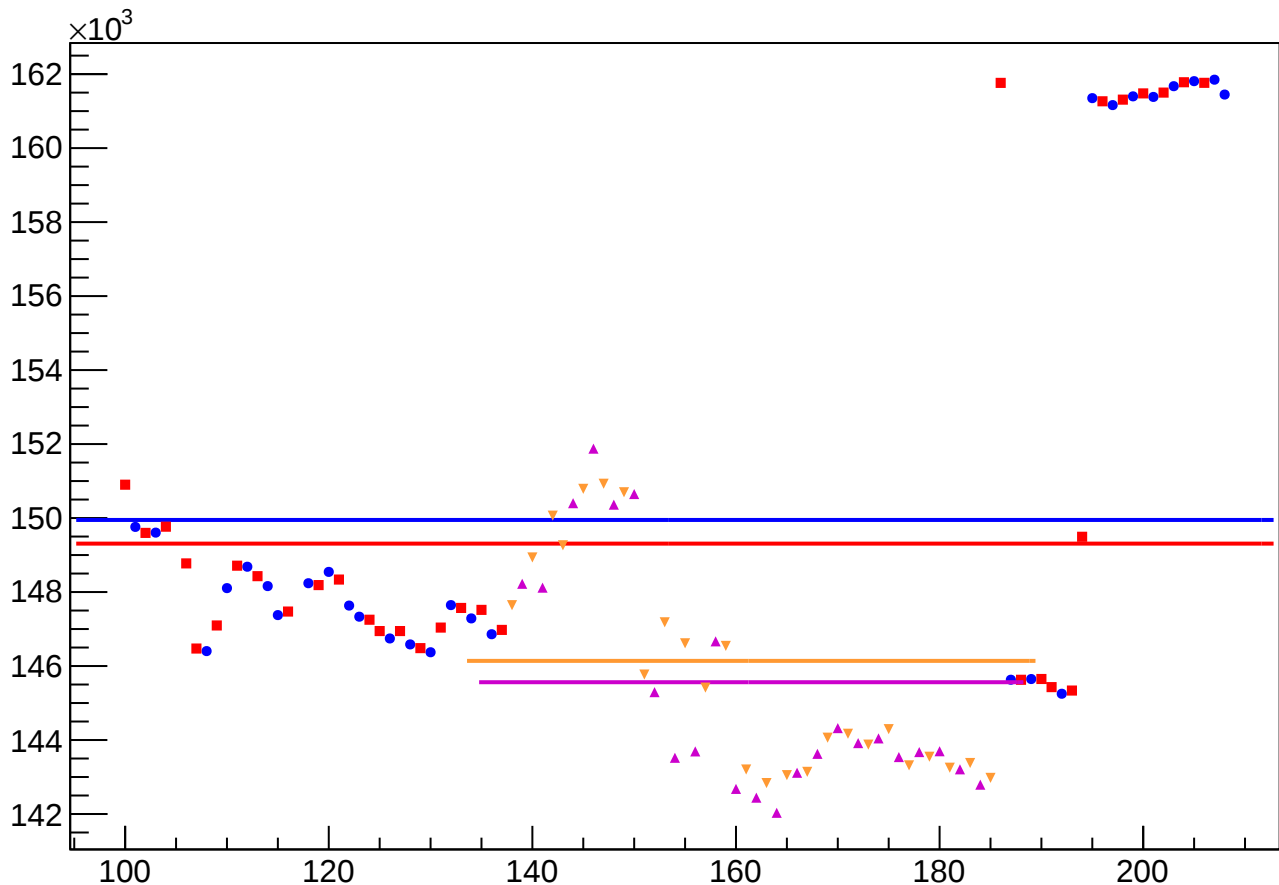
Right: 149.647 $\pm$ 0.022 χ^2 /NDF: 13019022.4/58

In: 176.459 $\pm$ 0.024 χ^2 /NDF:8887844.3/50

Out: 171.353 $\pm$ 0.023 χ^2 /NDF:9730380.3/55

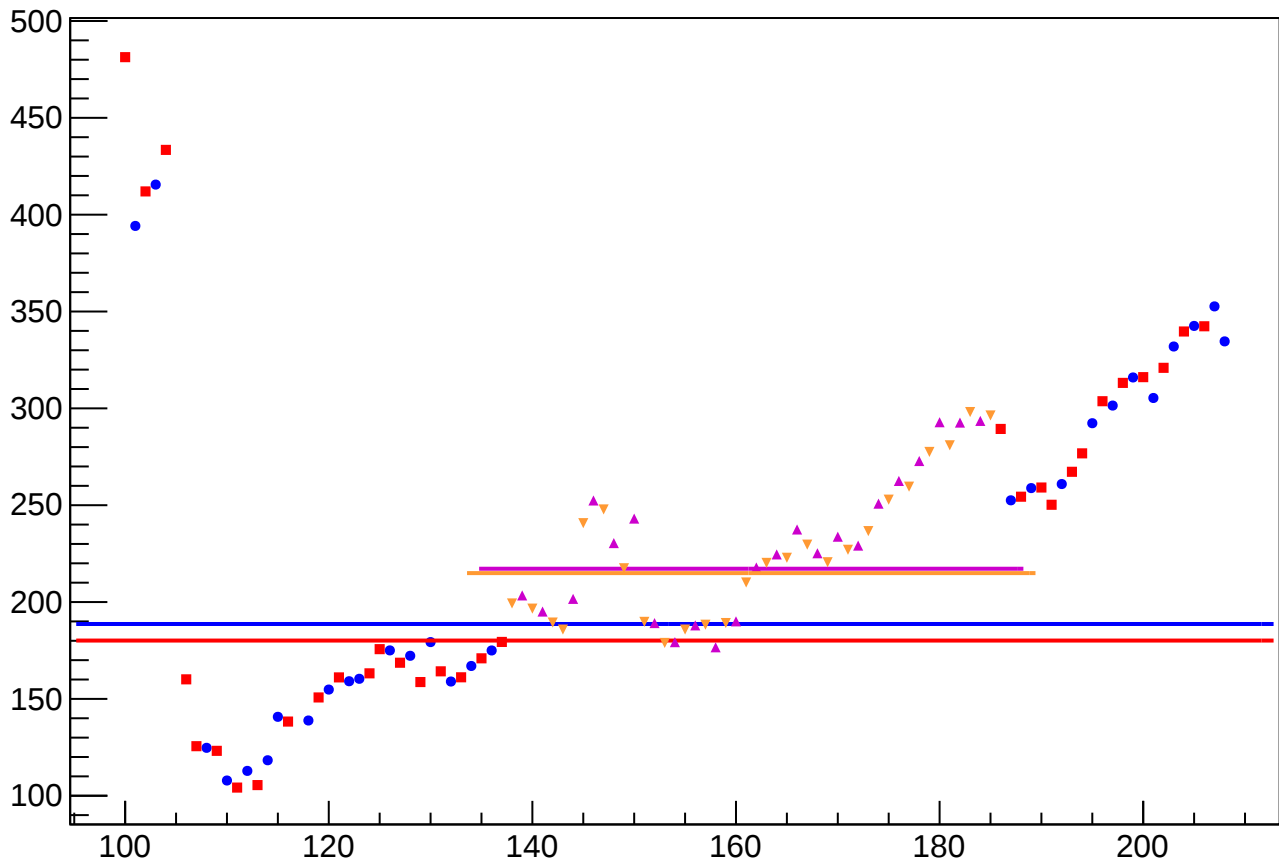
All: 173.774 $\pm$ 0.017 χ^2 /NDF: 18641922.9/10

yield_bpm1i06WS_mean vs Slug, Sign Corrected



Right In: 149948.587 $\pm$ 0.054	χ^2 /NDF: 10118135899.5/27	Left: 145862.850 $\pm$ 0.037	χ^2 /NDF: 5815743509.5/4
Left Out: 146139.326 $\pm$ 0.051	χ^2 /NDF: 2699546907.6/24	Right: 149607.804 $\pm$ 0.037	χ^2 /NDF: 18849306156.0/4
Right Out: 149308.938 $\pm$ 0.051	χ^2 /NDF: 8657365820.9/30	In: 147703.297 $\pm$ 0.038	χ^2 /NDF: 16507226647.1/5
Left In: 145562.386 $\pm$ 0.053	χ^2 /NDF: 3054641996.0/22	Out: 147724.485 $\pm$ 0.036	χ^2 /NDF: 13295787711.3/4
		All: 147714.457 $\pm$ 0.026	χ^2 /NDF: 298031783.0/1

yield_bpm1i06WS_rms vs Slug, Sign Corrected



Right In: 188.673 $\pm$ 0.038 χ^2/NDF : 4319194.1/27

Left Out: 214.945 $\pm$ 0.036 χ^2/NDF : 728515.5/24

Right Out: 180.121 $\pm$ 0.036 χ^2/NDF : 4602844.4/30

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

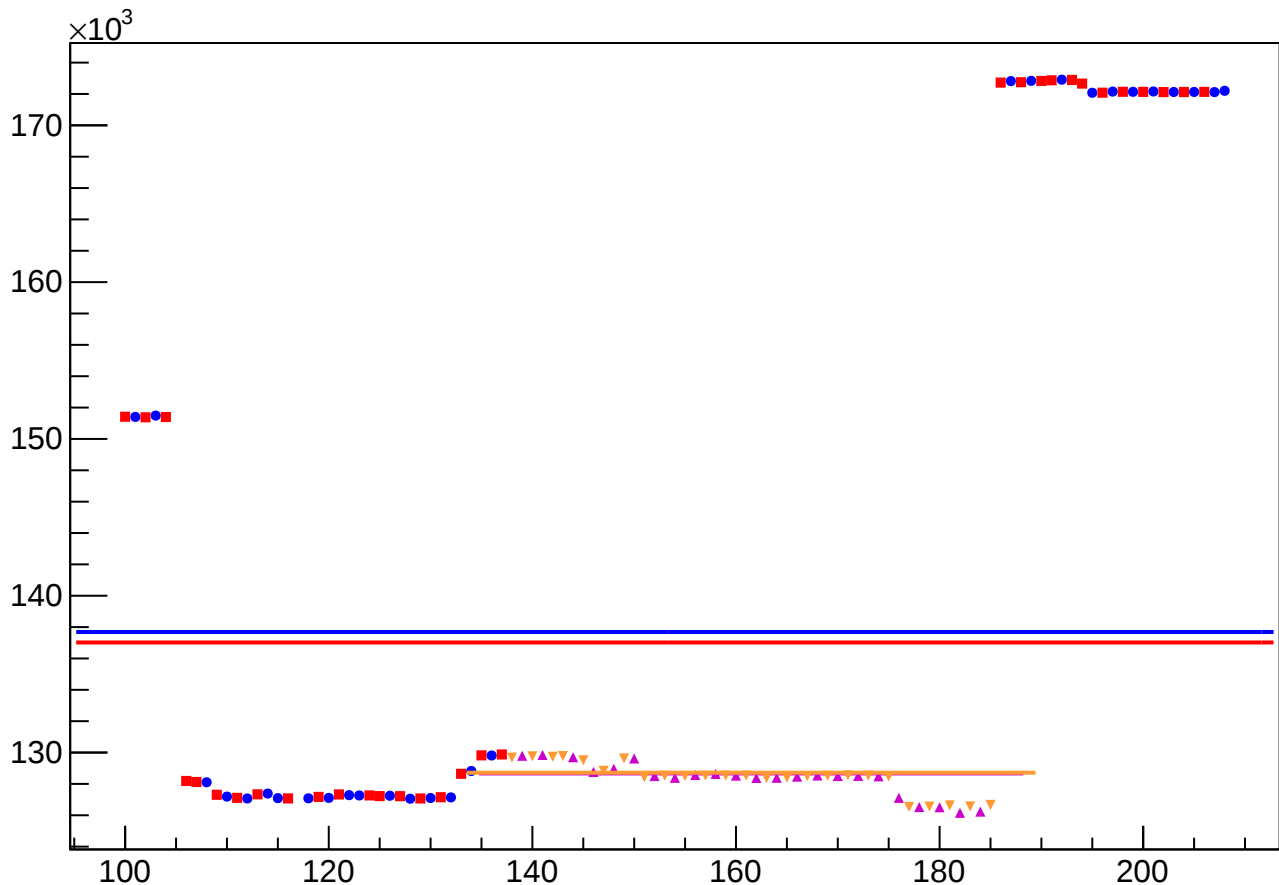
Right: 184.116 $\pm$ 0.026 χ^2/NDF : 8948424.3/58

In: 203.277 $\pm$ 0.027 χ^2/NDF : 5366156.8/50

Out: 197.529 $\pm$ 0.025 χ^2/NDF : 5799455.8/55

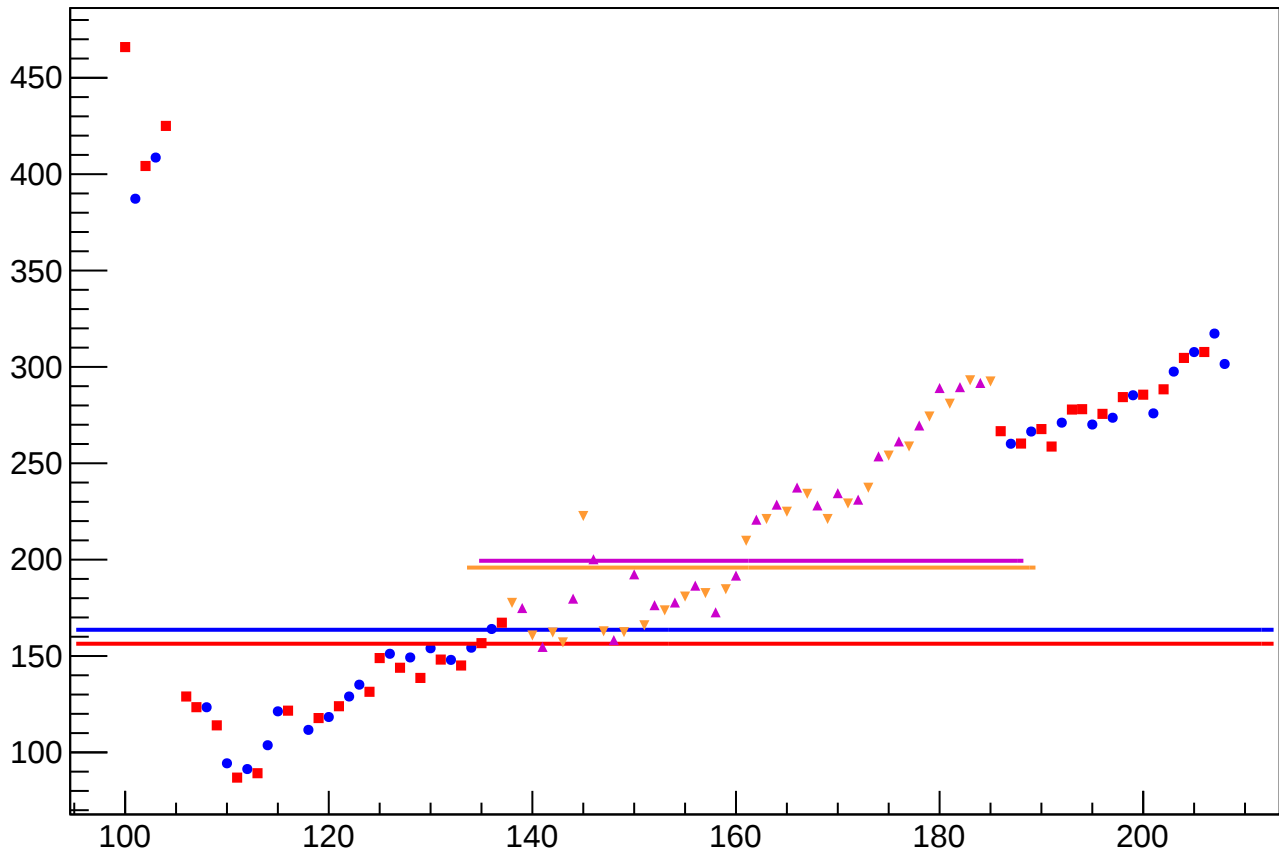
All: 200.250 $\pm$ 0.018 χ^2/NDF : 11189760.2/10

yield_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: 137689.751 $\pm$ 0.048 χ^2 /NDF: 150195125937.2/27
 Left Out: 128714.507 $\pm$ 0.047 χ^2 /NDF: 348178101.1/24
 Right Out: 137020.052 $\pm$ 0.045 χ^2 /NDF: 163050265085.2/30
 Left In: 128667.013 $\pm$ 0.049 χ^2 /NDF: 333059477.6/22
 Left: 128691.898 $\pm$ 0.034 χ^2 /NDF: 681729975.4/47
 Right: 137333.479 $\pm$ 0.033 χ^2 /NDF: 313349271892
 In: 133277.740 $\pm$ 0.034 χ^2 /NDF: 167860197360.9
 Out: 133025.537 $\pm$ 0.032 χ^2 /NDF: 179817618345.
 All: 133144.552 $\pm$ 0.024 χ^2 /NDF: 347706434

yield_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 163.613 $\pm$ 0.034 χ^2 /NDF: 5103947.9/27

Left Out: 195.883 $\pm$ 0.033 χ^2 /NDF:1313361.5/24

Right Out: 156.370 $\pm$ 0.032 χ^2 /NDF: 5491526.9/30

Left In: 199.413 $\pm$ 0.035 χ^2 /NDF:1165698.7/22

Left: 197.564 $\pm$ 0.024 χ^2 /NDF: 2484502.8/47

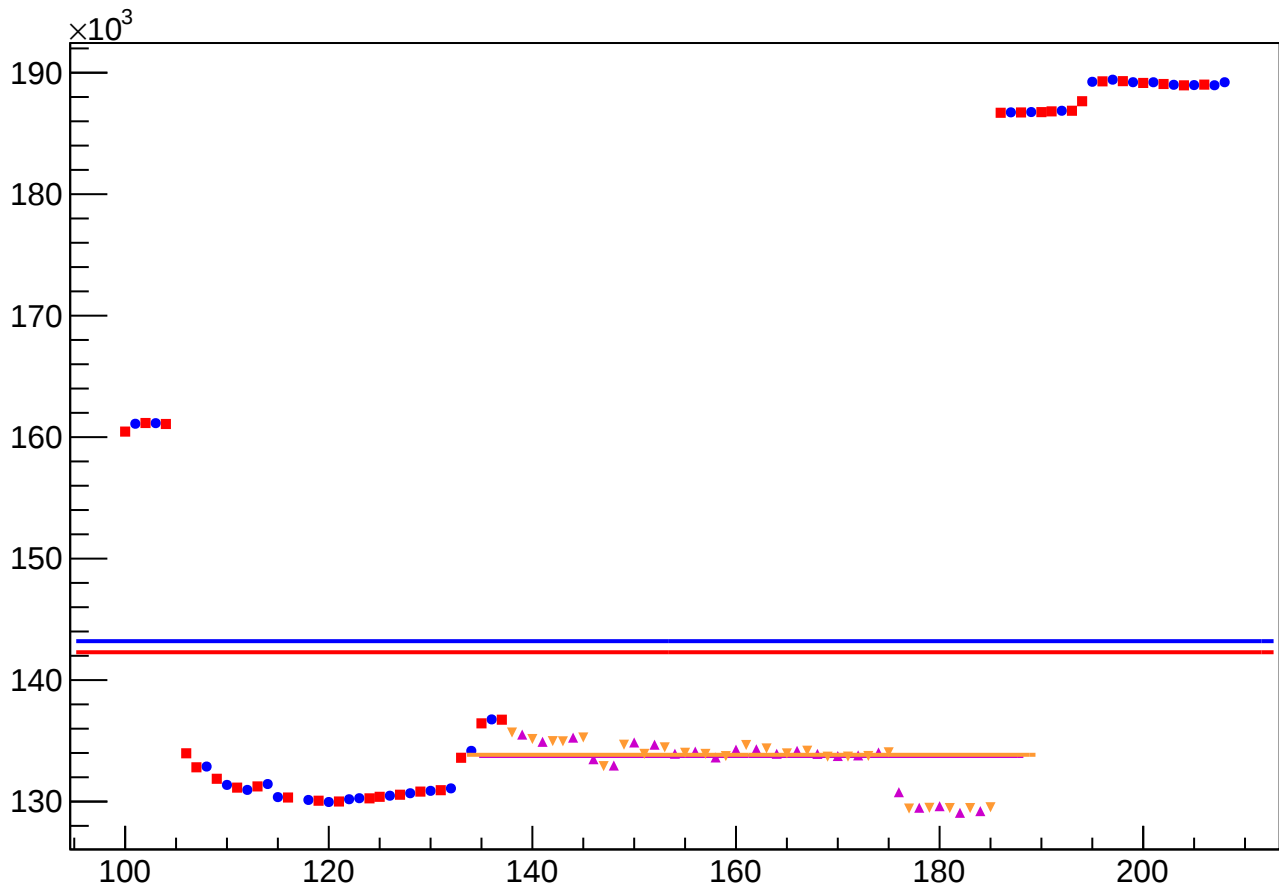
Right: 159.760 $\pm$ 0.023 χ^2 /NDF: 10619780.2/58

In: 181.119 $\pm$ 0.024 χ^2 /NDF:6815367.9/50

Out: 175.373 $\pm$ 0.023 χ^2 /NDF:7548115.9/55

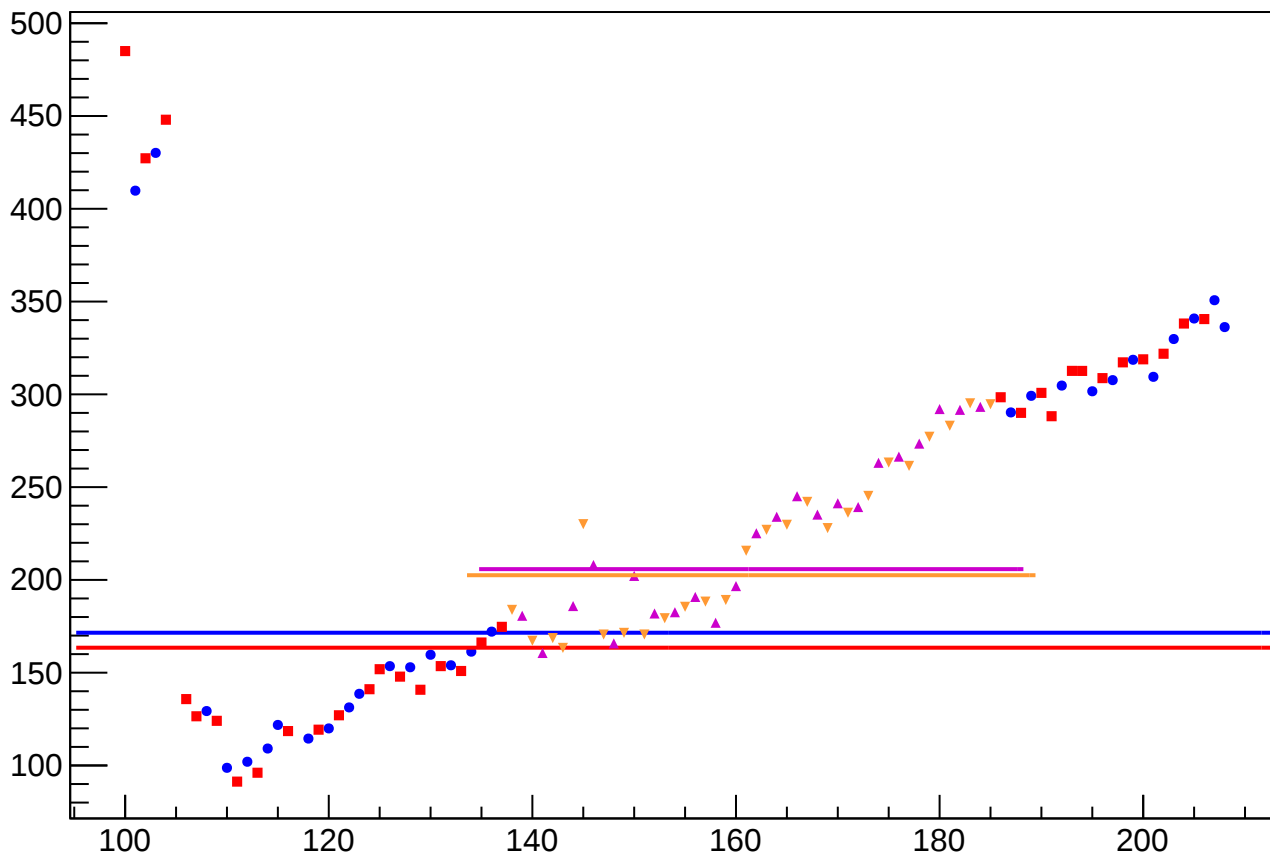
All: 178.085 $\pm$ 0.017 χ^2 /NDF: 14393192.9/10

yield_bpm2i02WS_mean vs Slug, Sign Corrected



Right In: 143204.610 $\pm$ 0.051 χ^2 /NDF: 202957112598.9/27
 Left Out: 133850.586 $\pm$ 0.048 χ^2 /NDF: 1080107831.1/24
 Right Out: 142292.391 $\pm$ 0.047 χ^2 /NDF: 214396511519.7/30
 Left In: 133749.630 $\pm$ 0.051 χ^2 /NDF: 954069486.7/22
 Left: 133802.452 $\pm$ 0.035 χ^2 /NDF: 2036267179.3/4
 Right: 142718.359 $\pm$ 0.035 χ^2 /NDF: 417525887052
 In: 138455.675 $\pm$ 0.036 χ^2 /NDF: 221348846400.3
 Out: 138135.555 $\pm$ 0.034 χ^2 /NDF: 231033161651.
 All: 138286.601 $\pm$ 0.025 χ^2 /NDF: 452424238

yield_bpm2i02WS_rms vs Slug, Sign Corrected



Right In: 171.533+/-0.036 χ^2/NDF : 5558387.9/27

Left Out: 202.527+/-0.034 χ^2/NDF : 1211991.5/24

Right Out: 163.465+/-0.034 χ^2/NDF : 6001180.7/30

Left In: 205.808+/-0.036 χ^2/NDF : 1094330.7/22

Left: 204.091+/-0.025 χ^2/NDF : 2310735.8/47

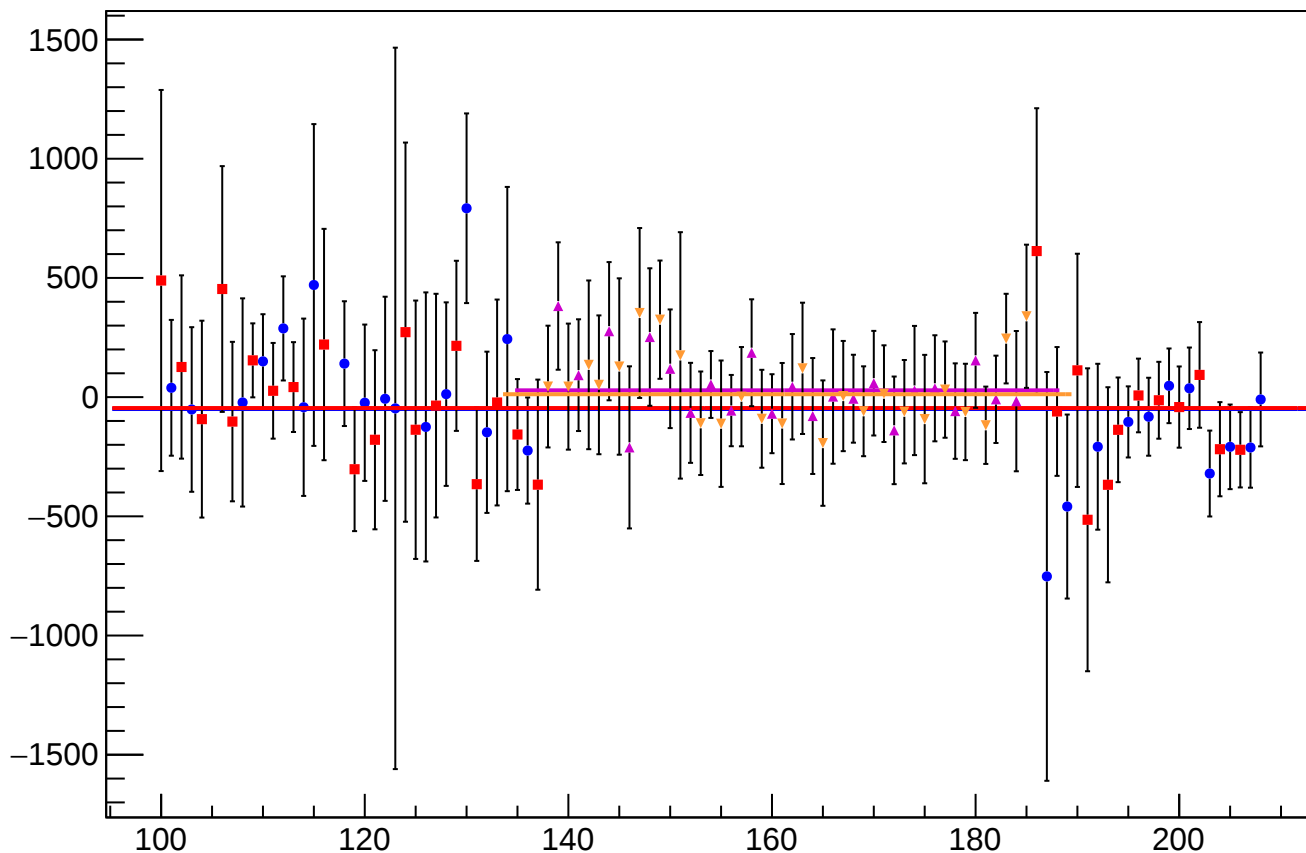
Right: 167.233+/-0.025 χ^2/NDF : 11586520.5/58

In: 188.748+/-0.025 χ^2/NDF : 7111011.3/50

Out: 182.700+/-0.024 χ^2/NDF : 7879349.8/55

All: 185.554+/-0.017 χ^2/NDF : 15020515.3/100

asym_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: -49.844 ± 46.802 χ^2/NDF : 16.9/27

Left Out: 12.180 ± 47.531 χ^2/NDF : 8.6/24

Right Out: -45.798 ± 46.911 χ^2/NDF : 12.7/30

Left In: 28.452 ± 44.688 χ^2/NDF : 6.7/22

Left: 20.817 ± 32.558 χ^2/NDF : 15.3/47

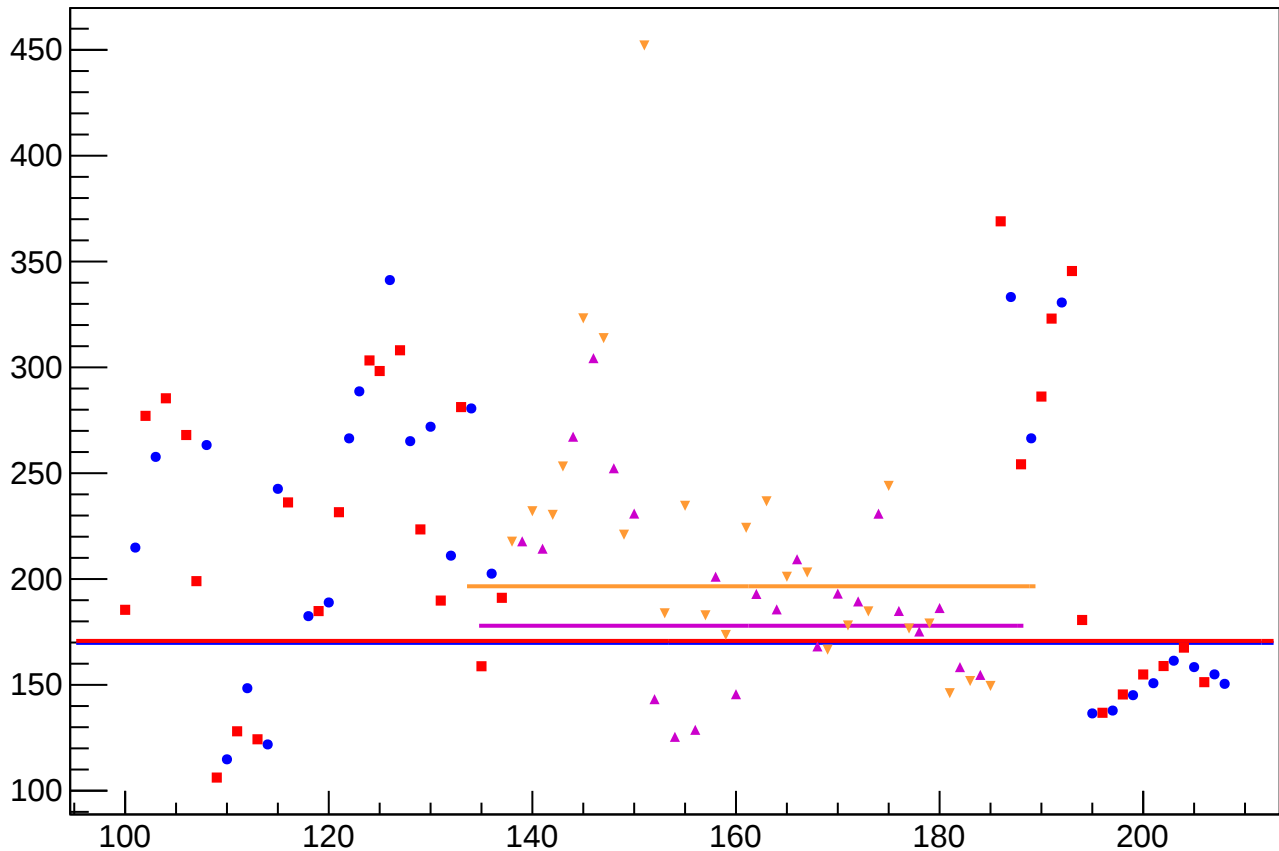
Right: -47.826 ± 33.133 χ^2/NDF : 29.6/58

In: -8.888 ± 32.321 χ^2/NDF : 25.0/50

Out: -17.189 ± 33.388 χ^2/NDF : 22.0/55

All: -12.904 ± 23.222 χ^2/NDF : 47.1/106

asym_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 169.841 $\pm$ 0.033 χ^2 /NDF: 2123141.4/27

Left Out: 196.576 $\pm$ 0.034 χ^2 /NDF:1778719.0/24

Right Out: 170.771 $\pm$ 0.033 χ^2 /NDF: 2779713.9/30

Left In: 177.933 $\pm$ 0.032 χ^2 /NDF:1605780.8/22

Left: 186.680 $\pm$ 0.023 χ^2 /NDF: 3547823.4/47

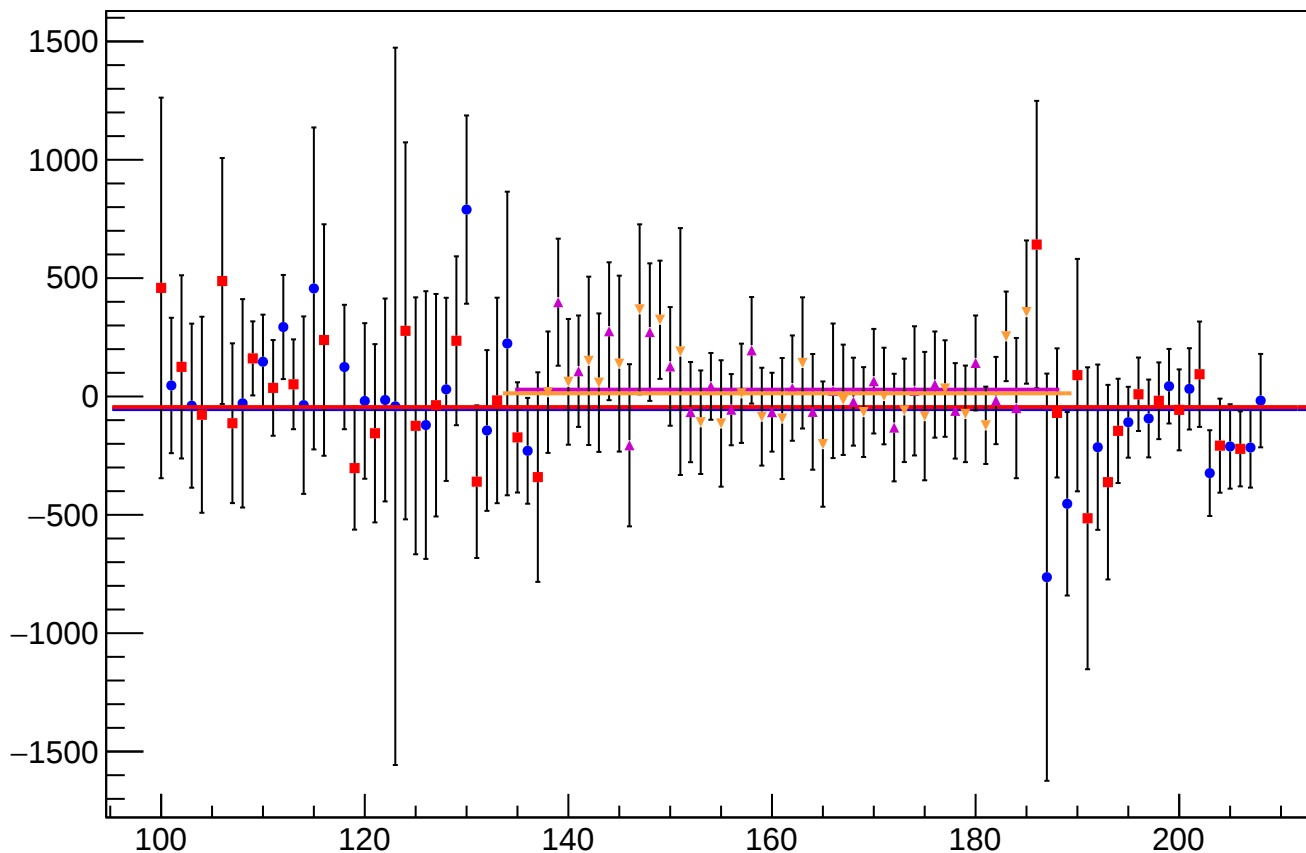
Right: 170.305 $\pm$ 0.023 χ^2 /NDF: 4903249.6/58

In: 174.074 $\pm$ 0.023 χ^2 /NDF:3760199.3/50

Out: 183.504 $\pm$ 0.024 χ^2 /NDF:4857052.1/55

All: 178.636 $\pm$ 0.016 χ^2 /NDF: 8699626.0/106

asym_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: -53.259 ± 47.023 χ^2/NDF : 16.8/27

Left Out: 13.395 ± 47.862 χ^2/NDF : 9.0/24

Right Out: -44.832 ± 47.147 χ^2/NDF : 12.9/30

Left In: 28.806 ± 44.980 χ^2/NDF : 6.8/22

Left: 21.578 ± 32.777 χ^2/NDF : 15.9/47

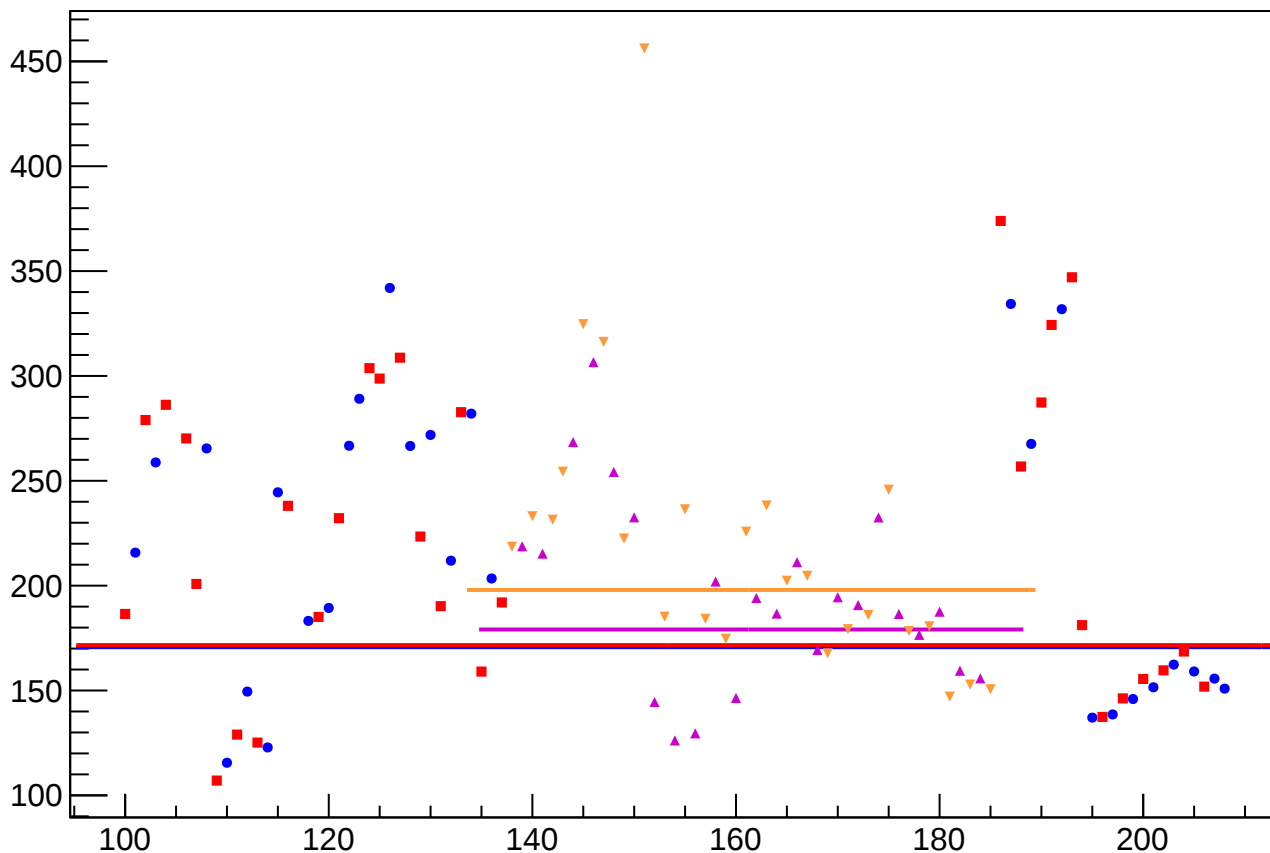
Right: -49.056 ± 33.294 χ^2/NDF : 29.8/58

In: -10.405 ± 32.504 χ^2/NDF : 25.3/50

Out: -16.157 ± 33.588 χ^2/NDF : 22.6/55

All: -13.186 ± 23.358 χ^2/NDF : 47.9/106

asym_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 170.669 $\pm$ 0.033 χ^2 /NDF: 2114873.0/27

Left Out: 197.953 $\pm$ 0.034 χ^2 /NDF:1774524.3/24

Right Out: 171.641 $\pm$ 0.033 χ^2 /NDF: 2775133.3/30

Left In: 179.090 $\pm$ 0.032 χ^2 /NDF:1605113.3/22

Left: 187.936 $\pm$ 0.023 χ^2 /NDF: 3544595.8/47

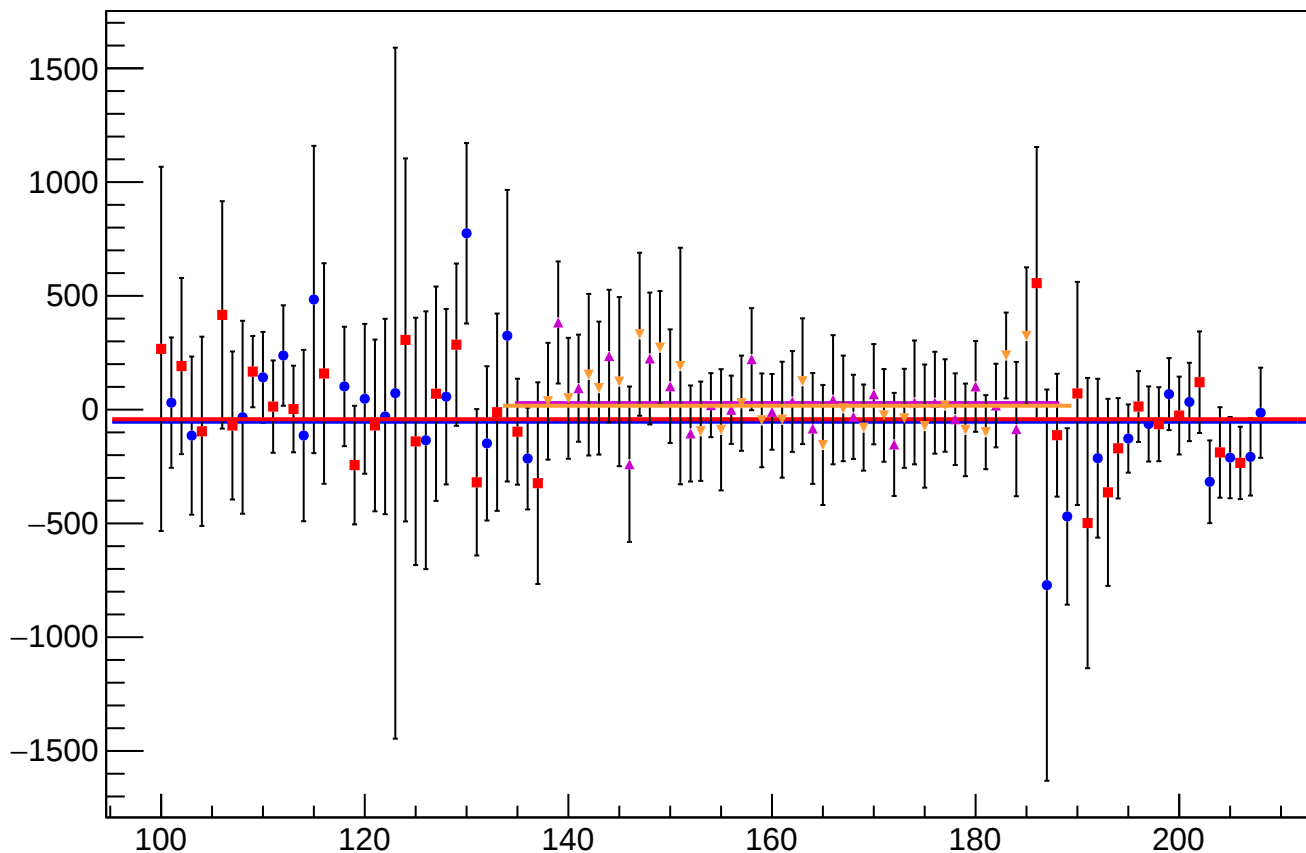
Right: 171.154 $\pm$ 0.024 χ^2 /NDF: 4890433.1/58

In: 175.066 $\pm$ 0.023 χ^2 /NDF:3753480.5/50

Out: 184.599 $\pm$ 0.024 χ^2 /NDF:4856411.2/55

All: 179.676 $\pm$ 0.017 χ^2 /NDF: 8693084.9/106

asym_bcm_an_us_mean vs Slug, Sign Corrected



Right In: -53.111 ± 47.105 $\chi^2/\text{NDF}: 16.2/27$

Left Out: 17.142 ± 47.738 $\chi^2/\text{NDF}: 7.1/24$

Right Out: -42.141 ± 47.155 $\chi^2/\text{NDF}: 11.7/30$

Left In: 28.655 ± 44.859 $\chi^2/\text{NDF}: 6.1/22$

Left: 23.256 ± 32.690 $\chi^2/\text{NDF}: 13.2/47$

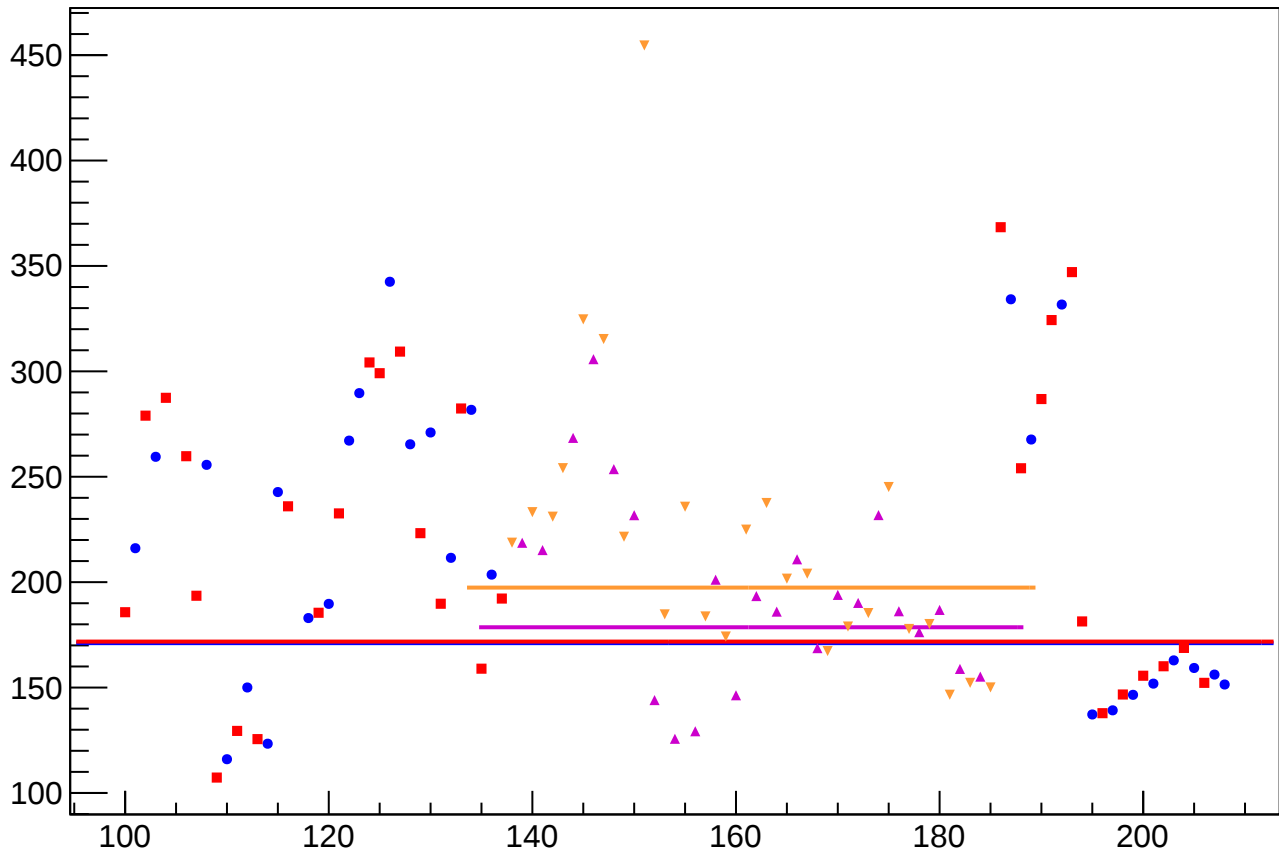
Right: -47.631 ± 33.326 $\chi^2/\text{NDF}: 27.9/58$

In: -10.232 ± 32.485 $\chi^2/\text{NDF}: 24.0/50$

Out: -12.864 ± 33.548 $\chi^2/\text{NDF}: 19.5/55$

All: -11.505 ± 23.337 $\chi^2/\text{NDF}: 43.5/106$

asym_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 171.069+/-0.033 χ^2/NDF : 2083120.3/27

Left Out: 197.422+/-0.034 χ^2/NDF :1780261.9/24

Right Out: 171.811+/-0.033 χ^2/NDF : 2729984.4/30

Left In: 178.601+/-0.032 χ^2/NDF :1608998.1/22

Left: 187.427+/-0.023 χ^2/NDF : 3554344.1/47

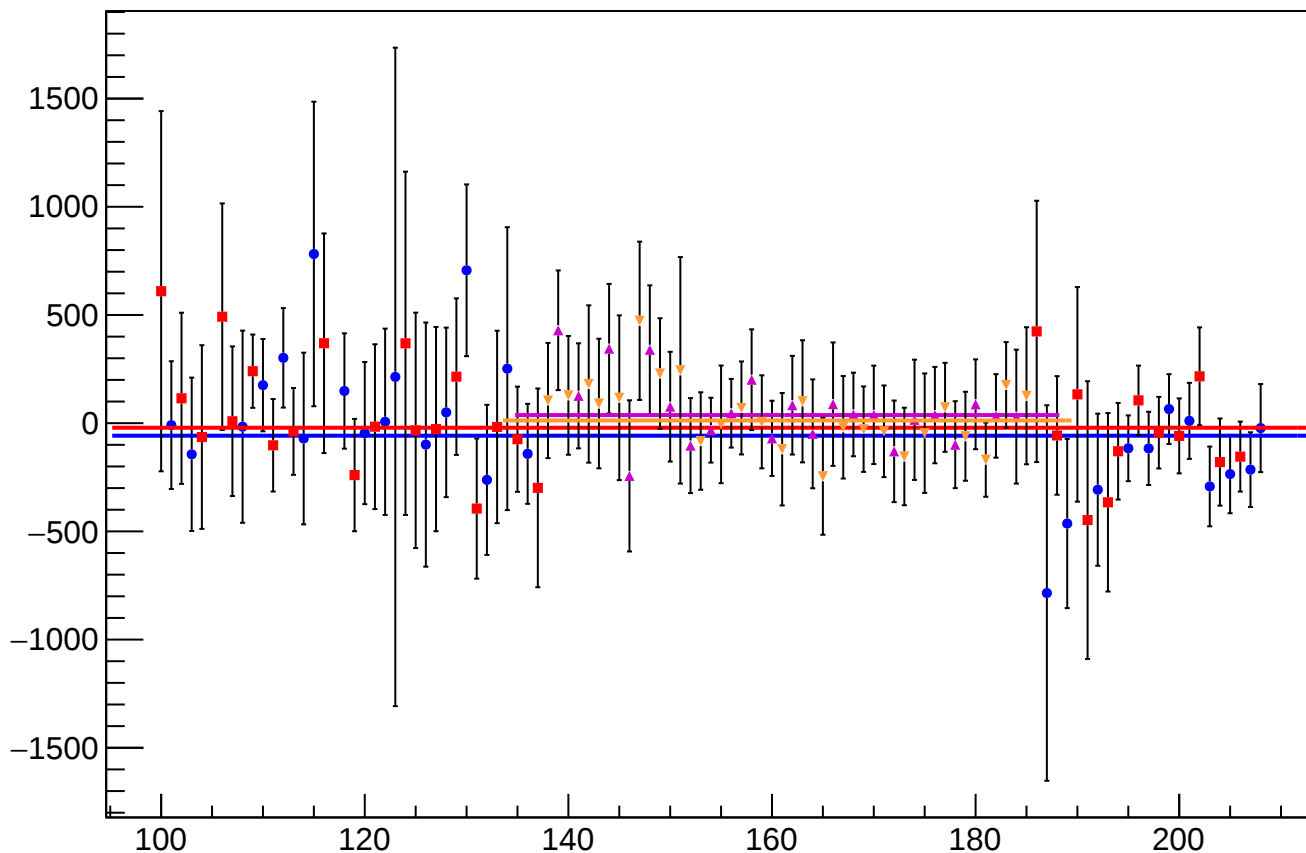
Right: 171.439+/-0.024 χ^2/NDF : 4813352.8/58

In: 175.019+/-0.023 χ^2/NDF :3718938.0/50

Out: 184.459+/-0.024 χ^2/NDF :4801600.4/55

All: 179.587+/-0.017 χ^2/NDF : 8602270.0/106

asym_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: -57.816 ± 48.162 $\chi^2/\text{NDF}: 17.0/27$

Left Out: 12.632 ± 49.242 $\chi^2/\text{NDF}: 7.5/24$

Right Out: -20.982 ± 48.472 $\chi^2/\text{NDF}: 13.0/30$

Left In: 37.460 ± 46.479 $\chi^2/\text{NDF}: 7.6/22$

Left: 25.762 ± 33.800 $\chi^2/\text{NDF}: 15.3/47$

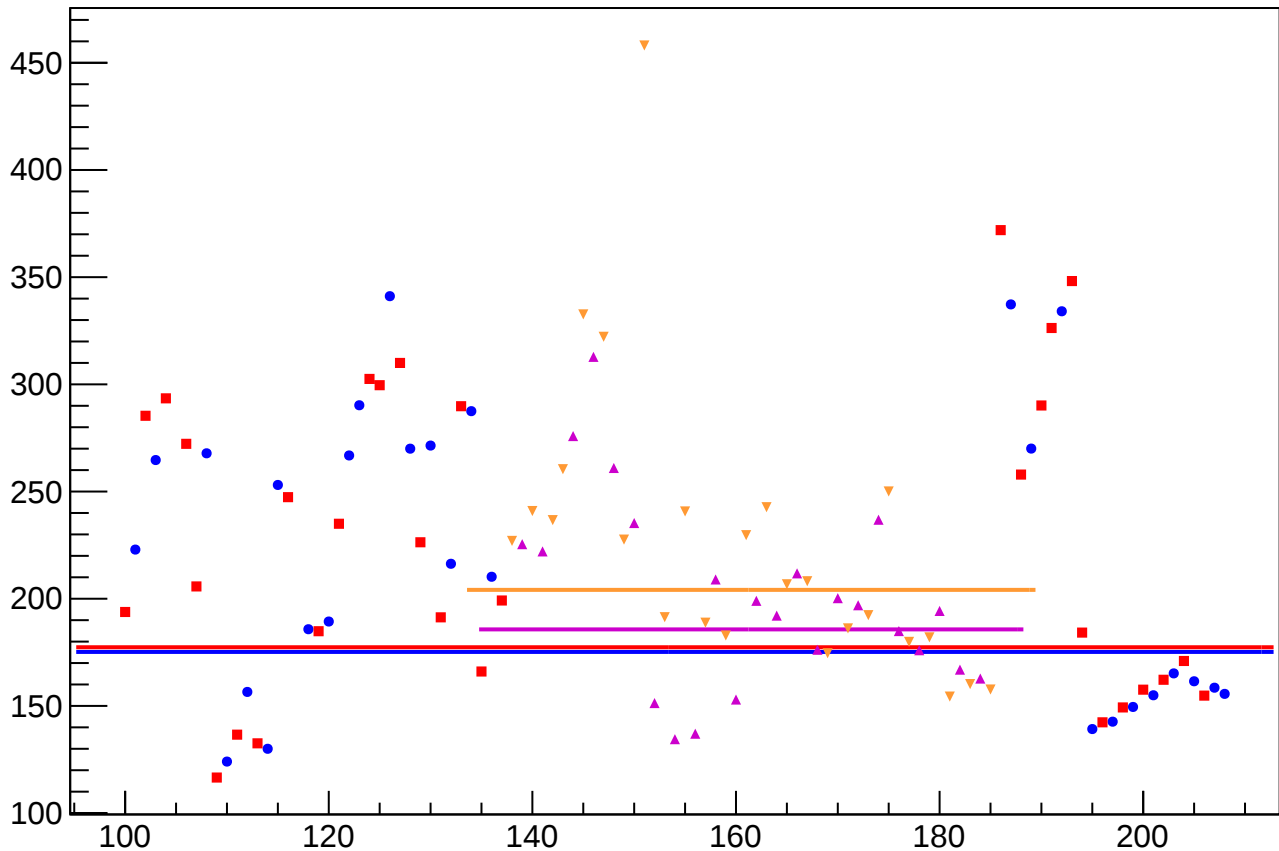
Right: -39.517 ± 34.165 $\chi^2/\text{NDF}: 30.4/58$

In: -8.484 ± 33.445 $\chi^2/\text{NDF}: 26.7/50$

Out: -4.440 ± 34.544 $\chi^2/\text{NDF}: 20.8/55$

All: -6.527 ± 24.028 $\chi^2/\text{NDF}: 47.5/106$

asym_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 175.186+/-0.034 χ^2/NDF : 2009647.6/27

Left Out: 204.132+/-0.035 χ^2/NDF :1672287.6/24

Right Out: 177.366+/-0.034 χ^2/NDF : 2545766.2/30

Left In: 185.694+/-0.033 χ^2/NDF :1447767.0/22

Left: 194.381+/-0.024 χ^2/NDF : 3268347.9/47

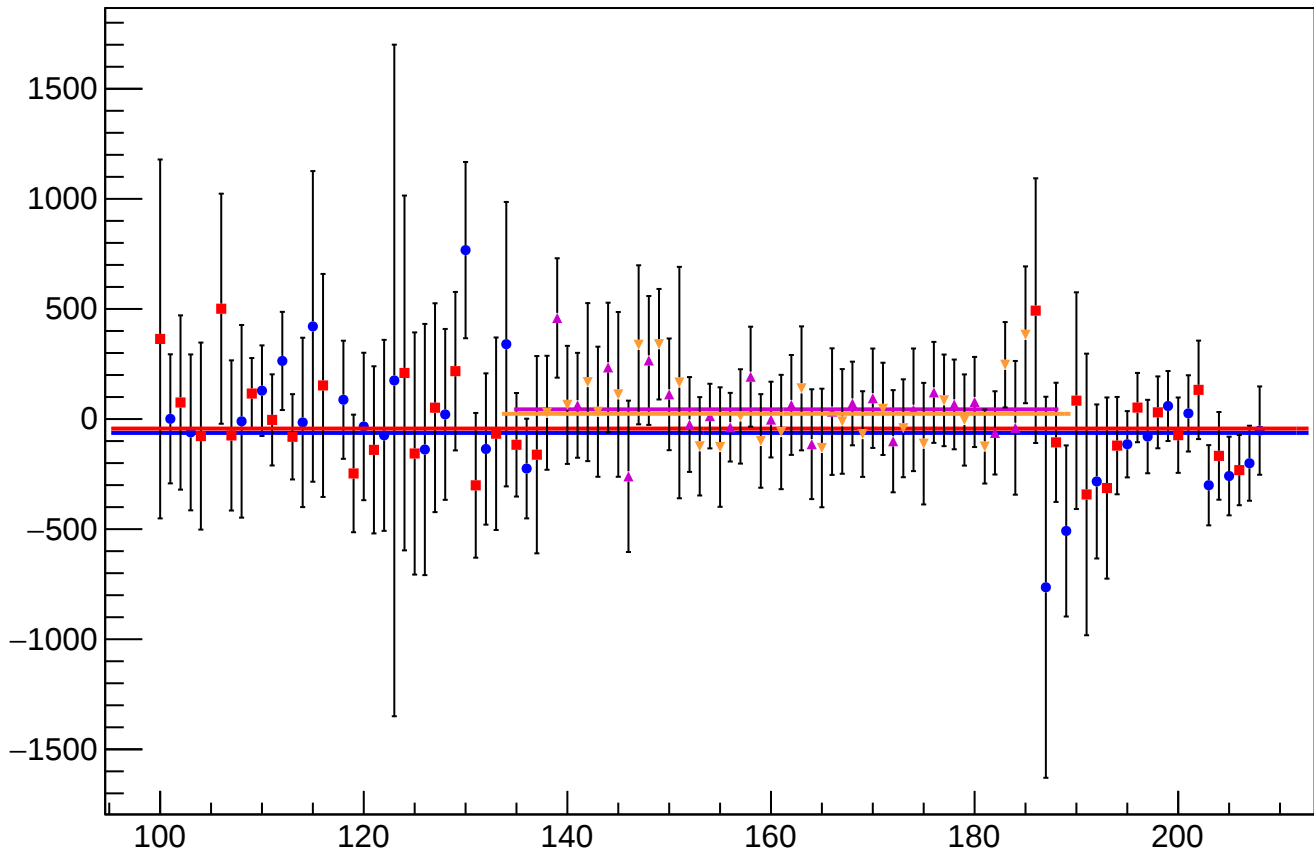
Right: 176.269+/-0.024 χ^2/NDF : 4557448.9/58

In: 180.627+/-0.024 χ^2/NDF :3506703.3/50

Out: 190.538+/-0.024 χ^2/NDF :4518158.2/55

All: 185.422+/-0.017 χ^2/NDF : 8109844.4/106

asym_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: -62.941 ± 47.554 χ^2/NDF : 16.1/27

Left Out: 23.843 ± 48.783 χ^2/NDF : 8.5/24

Right Out: -43.245 ± 47.698 χ^2/NDF : 9.5/30

Left In: 43.978 ± 45.981 χ^2/NDF : 6.5/22

Left: 34.506 ± 33.460 χ^2/NDF : 15.1/47

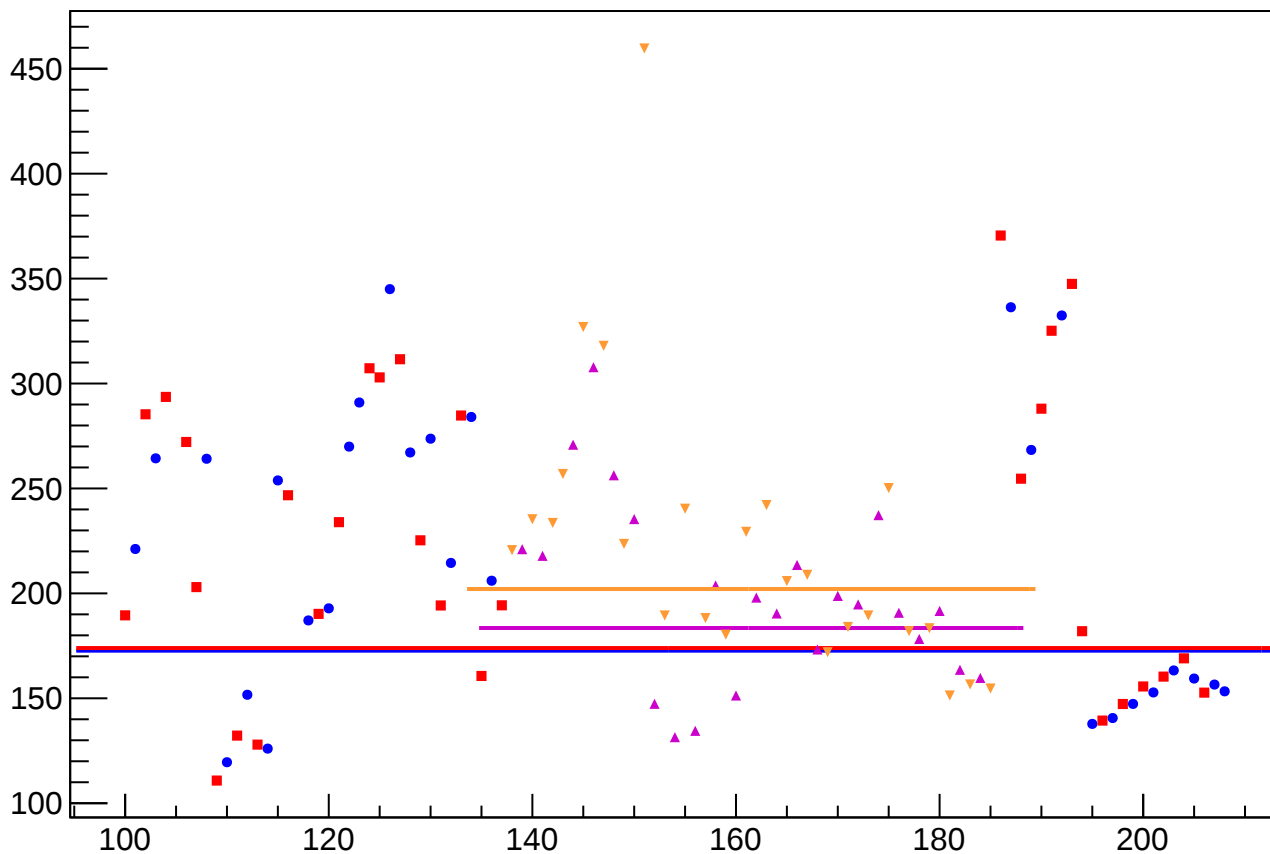
Right: -53.123 ± 33.677 χ^2/NDF : 25.7/58

In: -7.684 ± 33.056 χ^2/NDF : 25.3/50

Out: -10.455 ± 34.105 χ^2/NDF : 18.9/55

All: -9.026 ± 23.736 χ^2/NDF : 44.2/106

asym_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 172.707 $\pm$ 0.034 χ^2 /NDF: 2091388.2/27

Left Out: 202.081 $\pm$ 0.034 χ^2 /NDF:1692787.9/24

Right Out: 173.945 $\pm$ 0.034 χ^2 /NDF: 2708850.2/30

Left In: 183.498 $\pm$ 0.033 χ^2 /NDF:1483383.4/22

Left: 192.240 $\pm$ 0.024 χ^2 /NDF: 3329846.6/47

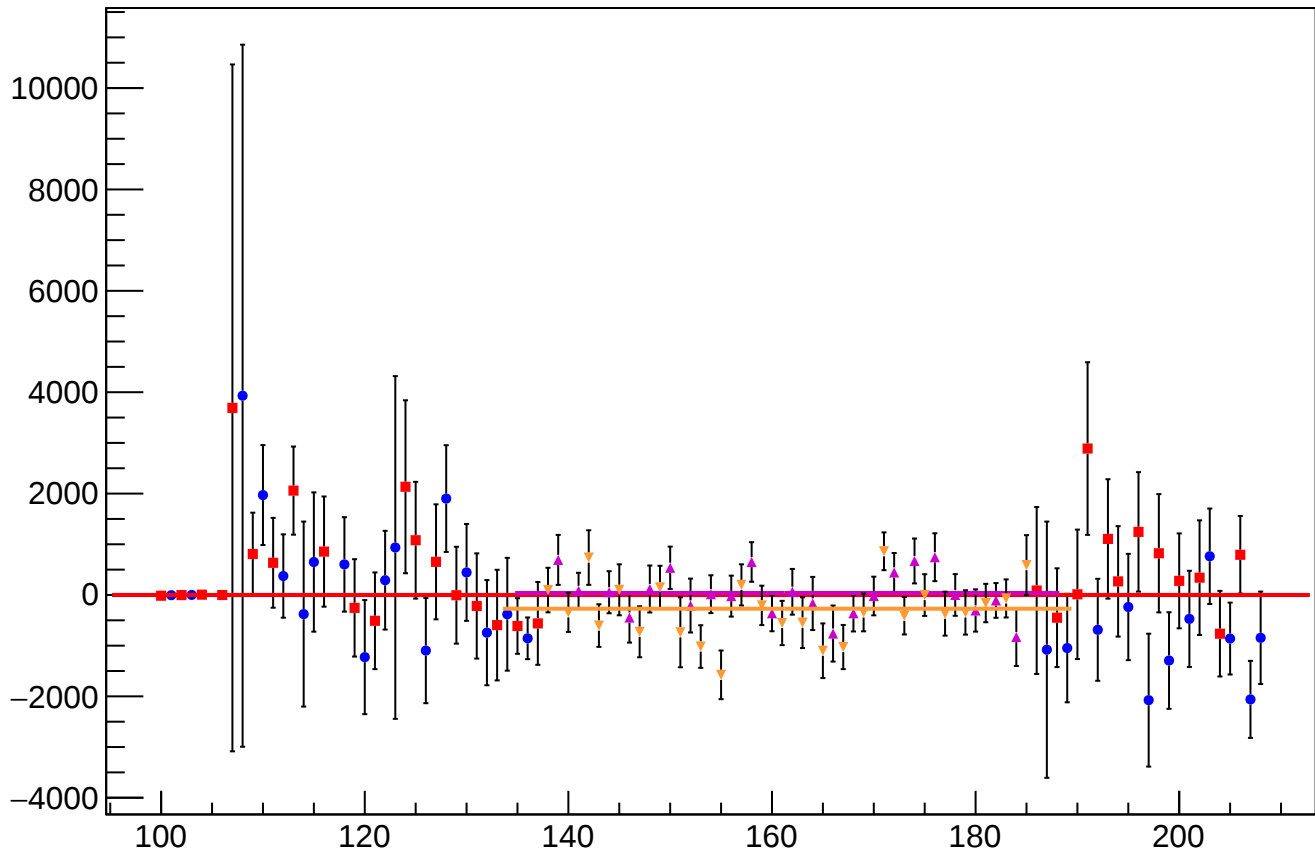
Right: 173.324 $\pm$ 0.024 χ^2 /NDF: 4800914.7/58

In: 178.284 $\pm$ 0.023 χ^2 /NDF:3628000.0/50

Out: 187.697 $\pm$ 0.024 χ^2 /NDF:4741752.8/55

All: 182.843 $\pm$ 0.017 χ^2 /NDF: 8448306.0/106

asym_cav4bQ_mean vs Slug, Sign Corrected



Right In: -1.583 ± 2.251 χ^2/NDF : 34.0/27

Left Out: -270.969 ± 86.967 χ^2/NDF : 38.1/24

Right Out: 0.743 ± 2.111 χ^2/NDF : 26.8/30

Left In: 39.078 ± 87.769 χ^2/NDF : 20.3/22

Left: -117.369 ± 61.777 χ^2/NDF : 64.7/47

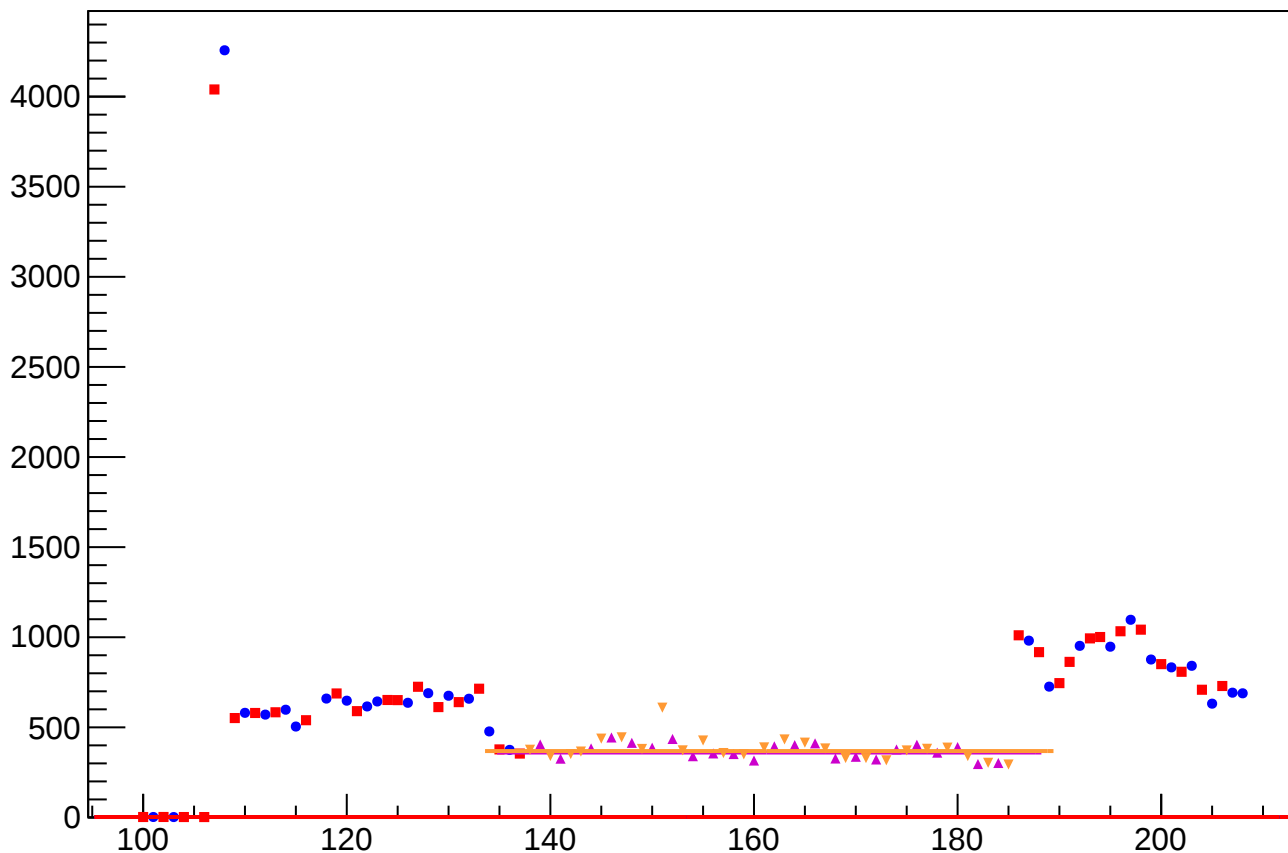
Right: -0.345 ± 1.540 χ^2/NDF : 61.4/58

In: -1.556 ± 2.251 χ^2/NDF : 54.5/50

Out: 0.583 ± 2.110 χ^2/NDF : 74.7/55

All: -0.418 ± 1.539 χ^2/NDF : 129.6/106

asym_cav4bQ_rms vs Slug, Sign Corrected



Right In: 2.504+/-0.002 χ^2/NDF : 25985483.0/27

Left Out: 368.397+/-0.061 χ^2/NDF : 622466.1/24

Right Out: 2.477+/-0.001 χ^2/NDF : 26886741.7/30

Left In: 360.408+/-0.062 χ^2/NDF : 417739.4/22

Left: 364.439+/-0.044 χ^2/NDF : 1048566.0/47

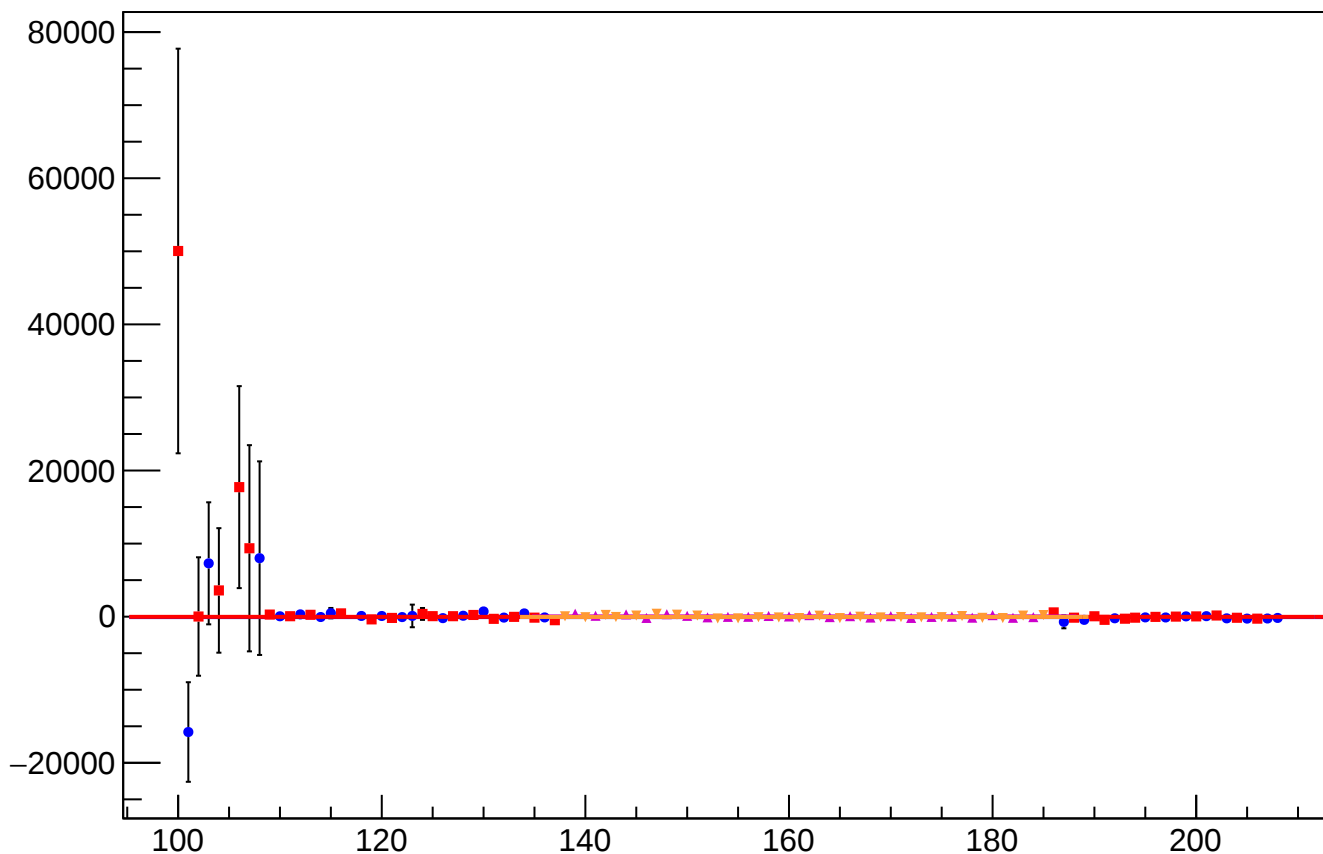
Right: 2.489+/-0.001 χ^2/NDF : 52872378.6/58

In: 2.739+/-0.002 χ^2/NDF : 59637930.3/50

Out: 2.692+/-0.001 χ^2/NDF : 62895523.5/55

All: 2.714+/-0.001 χ^2/NDF : 122533916.3/106

asym_cav4cQ_mean vs Slug, Sign Corrected



Right In: -57.197 ± 52.064 χ^2/NDF : 20.9/27

Left Out: -38.013 ± 49.628 χ^2/NDF : 9.3/24

Right Out: -24.755 ± 53.276 χ^2/NDF : 19.9/30

Left In: 28.205 ± 48.167 χ^2/NDF : 9.2/22

Left: -3.915 ± 34.564 χ^2/NDF : 19.4/47

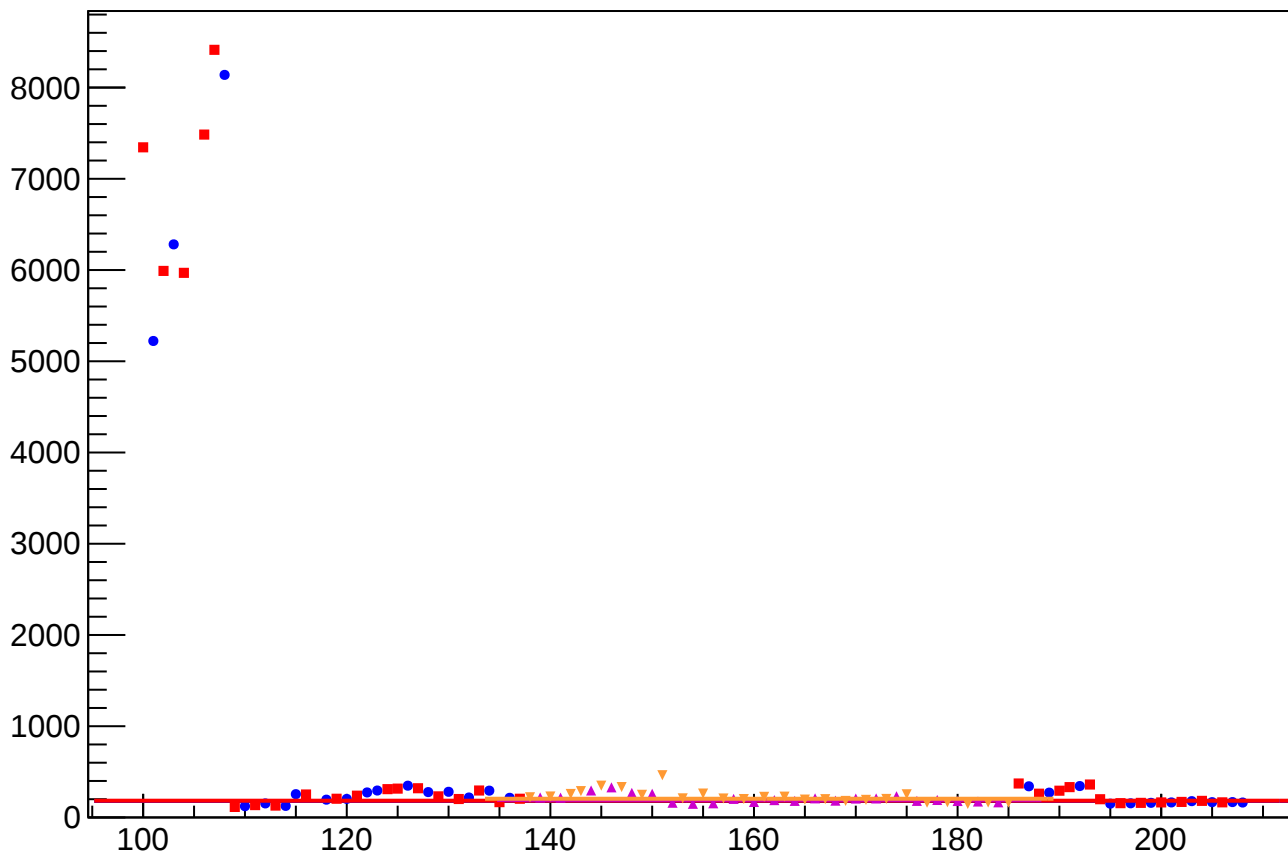
Right: -41.349 ± 37.236 χ^2/NDF : 41.0/58

In: -11.181 ± 35.357 χ^2/NDF : 31.6/50

Out: -31.853 ± 36.314 χ^2/NDF : 29.2/55

All: -21.241 ± 25.333 χ^2/NDF : 61.0/106

asym_cav4cQ_rms vs Slug, Sign Corrected



Right In: 180.488 ± 0.037 χ^2/NDF : 4520870.2/27

Left Out: 205.027 ± 0.035 χ^2/NDF : 1956045.1/24

Right Out: 183.449 ± 0.038 χ^2/NDF : 5354205.6/30

Left In: 193.405 ± 0.034 χ^2/NDF : 1172169.3/22

Left: 199.042 ± 0.024 χ^2/NDF : 3184695.4/47

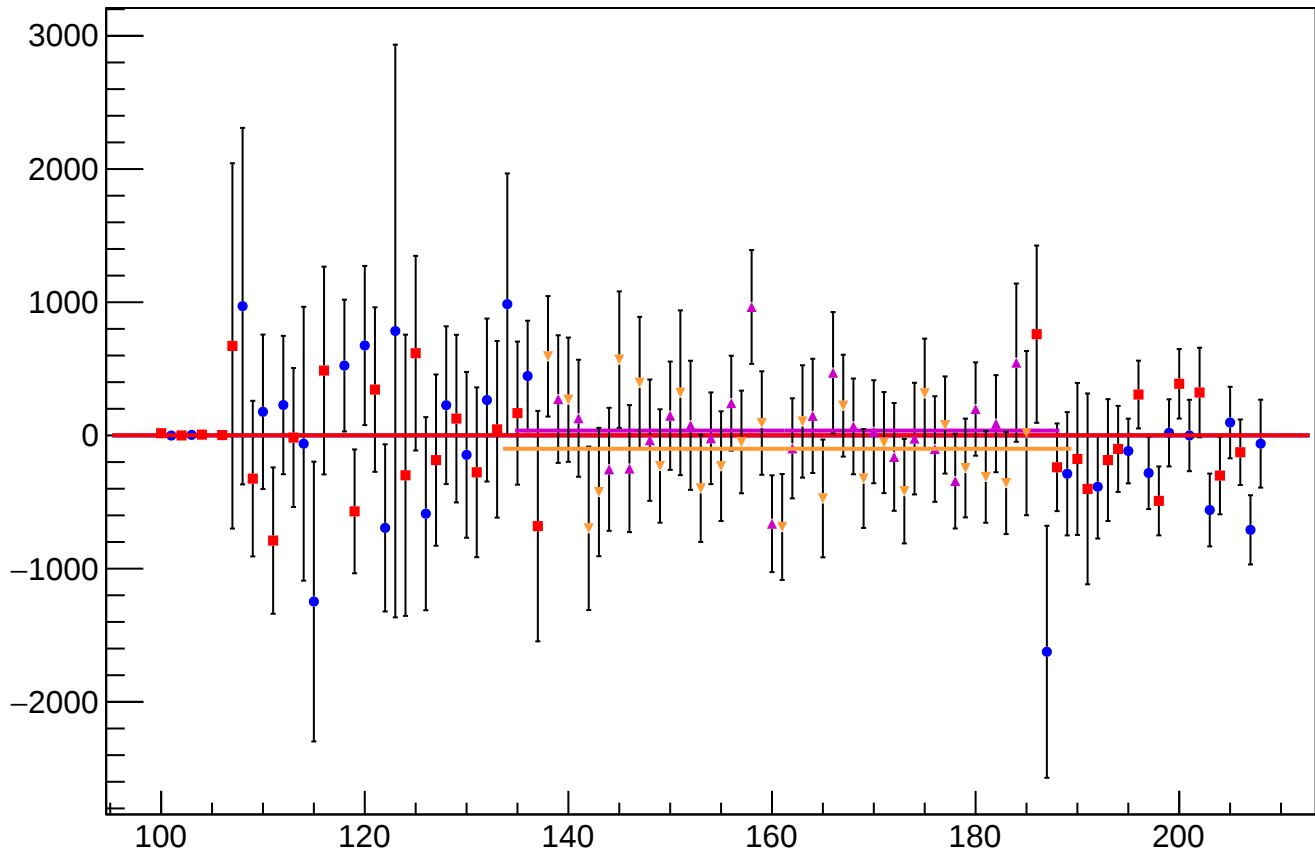
Right: 181.934 ± 0.026 χ^2/NDF : 9878235.9/58

In: 187.448 ± 0.025 χ^2/NDF : 5759367.9/50

Out: 195.002 ± 0.026 χ^2/NDF : 7485905.9/55

All: 191.124 ± 0.018 χ^2/NDF : 13289703.7/100

asym_cav4dQ_mean vs Slug, Sign Corrected



Right In: -0.225 $\pm$ 1.736 χ^2/NDF : 27.5/27

Left Out: -100.058 $\pm$ 84.190 χ^2/NDF :15.7/24

Right Out: 1.313 $\pm$ 1.622 χ^2/NDF : 21.4/30

Left In: 36.497 $\pm$ 84.675 χ^2/NDF :13.5/22

Left: -32.173 $\pm$ 59.702 χ^2/NDF : 30.5/47

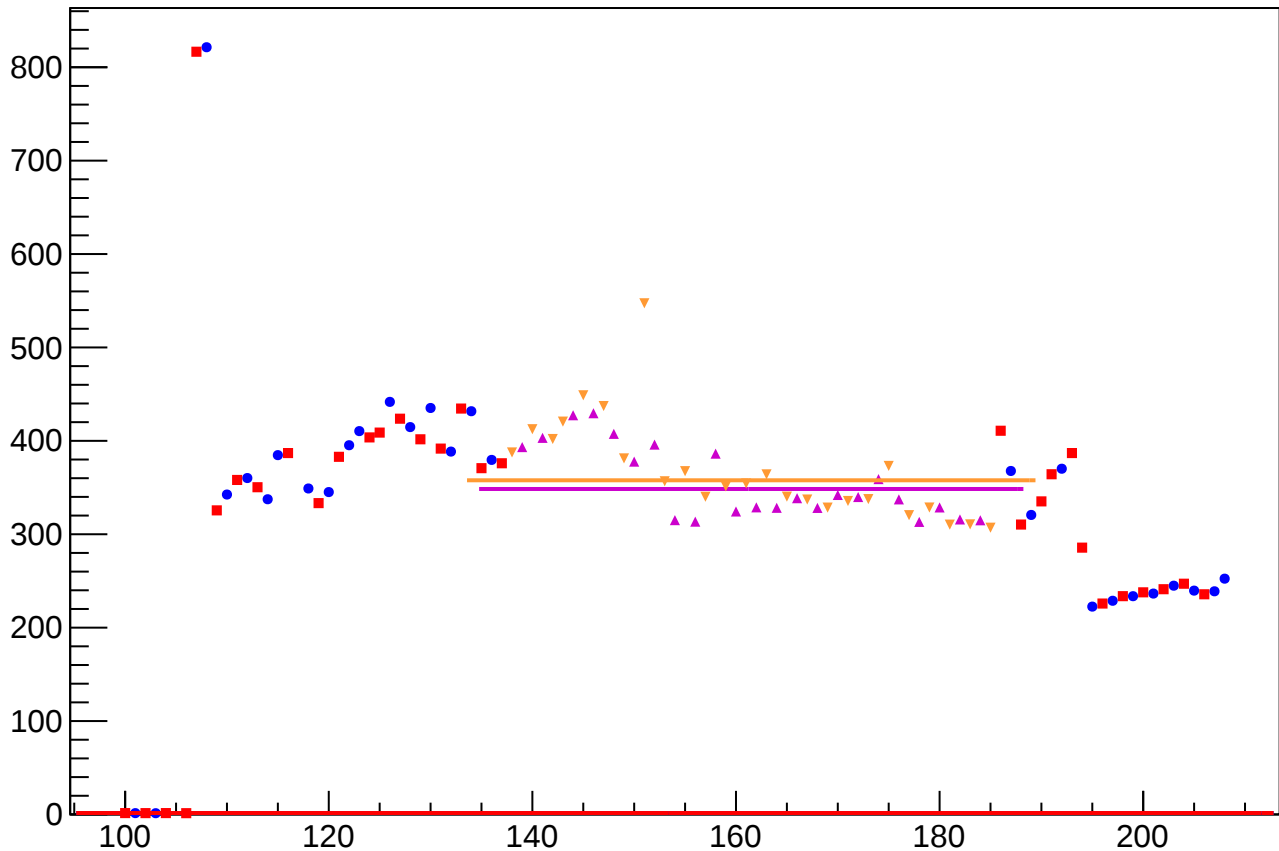
Right: 0.596 $\pm$ 1.185 χ^2/NDF : 49.3/58

In: -0.210 $\pm$ 1.736 χ^2/NDF :41.2/50

Out: 1.276 $\pm$ 1.622 χ^2/NDF :38.6/55

All: 0.583 $\pm$ 1.185 χ^2/NDF : 80.1/106

asym_cav4dQ_rms vs Slug, Sign Corrected



Right In: 1.545 $\pm$ 0.001 χ^2 /NDF: 26246408.7/27

Left Out: 357.771 $\pm$ 0.060 χ^2 /NDF: 547124.8/24

Right Out: 1.528 $\pm$ 0.001 χ^2 /NDF: 26582654.8/30

Left In: 348.464 $\pm$ 0.060 χ^2 /NDF: 360425.7/22

Left: 353.145 $\pm$ 0.042 χ^2 /NDF: 919701.2/47

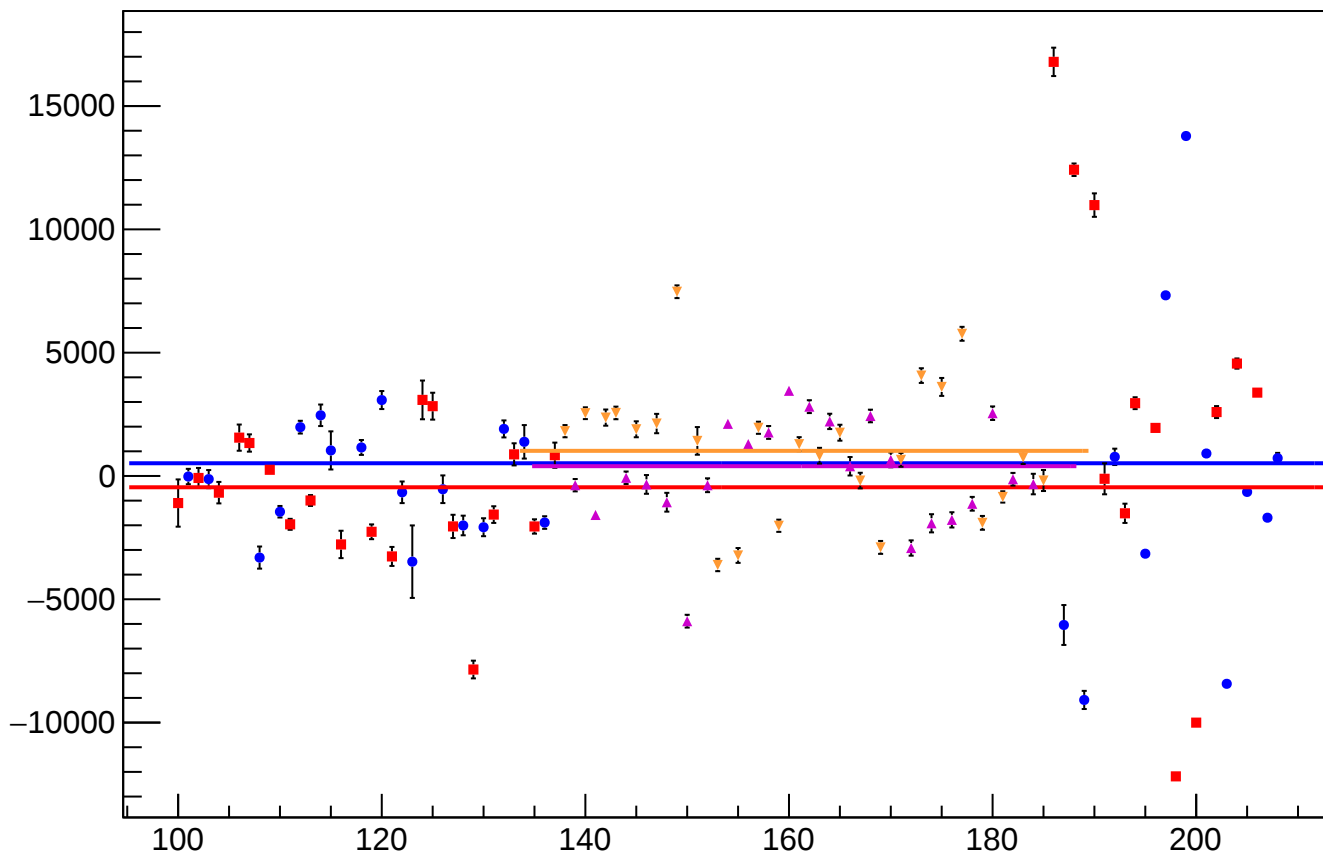
Right: 1.536 $\pm$ 0.001 χ^2 /NDF: 52829157.7/58

In: 1.690 $\pm$ 0.001 χ^2 /NDF: 60164487.5/50

Out: 1.660 $\pm$ 0.001 χ^2 /NDF: 62926451.8/55

All: 1.674 $\pm$ 0.001 χ^2 /NDF: 123091255.6/106

asym_bcm0l02_mean vs Slug, Sign Corrected



Right In: 515.644 ± 51.727 $\chi^2/\text{NDF}: 10823.0/27$

Left Out: 1018.965 ± 57.402 $\chi^2/\text{NDF}: 2310.1/24$

Right Out: -458.566 ± 51.552 $\chi^2/\text{NDF}: 13211.0/30$

Left In: 396.609 ± 55.090 $\chi^2/\text{NDF}: 1581.0/22$

Left: 695.002 ± 39.747 $\chi^2/\text{NDF}: 3952.3/47$

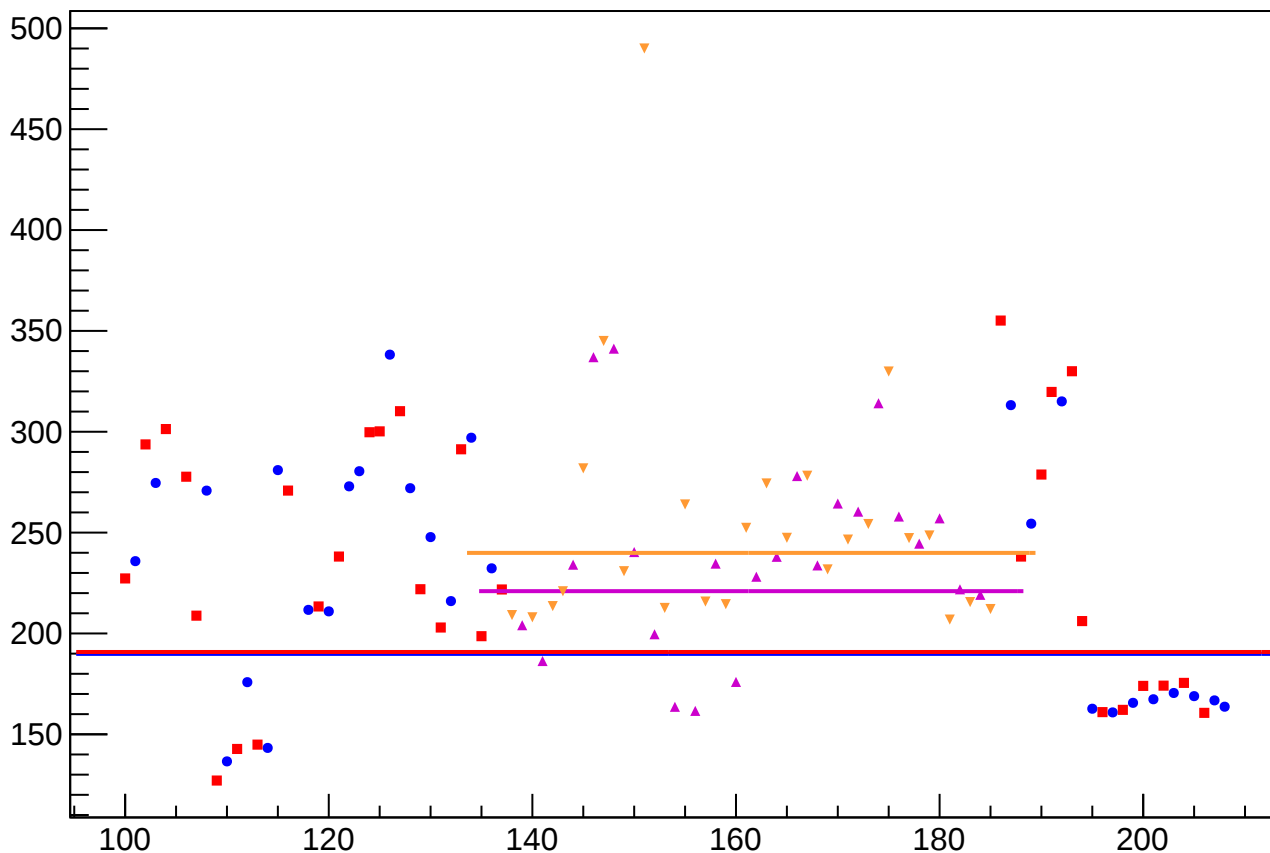
Right: 26.884 ± 36.514 $\chi^2/\text{NDF}: 24212.0/58$

In: 459.870 ± 37.709 $\chi^2/\text{NDF}: 12406.4/50$

Out: 201.089 ± 38.355 $\chi^2/\text{NDF}: 15887.9/55$

All: 332.675 ± 26.890 $\chi^2/\text{NDF}: 28317.5/106$

asym_bcm0l02_rms vs Slug, Sign Corrected



Right In: 189.871 ± 0.037 χ^2/NDF : 1522306.8/27

Left Out: 239.942 ± 0.041 χ^2/NDF : 1000770.0/24

Right Out: 190.816 ± 0.036 χ^2/NDF : 2050339.7/30

Left In: 220.972 ± 0.039 χ^2/NDF : 1327680.6/22

Left: 230.067 ± 0.028 χ^2/NDF : 2442154.9/47

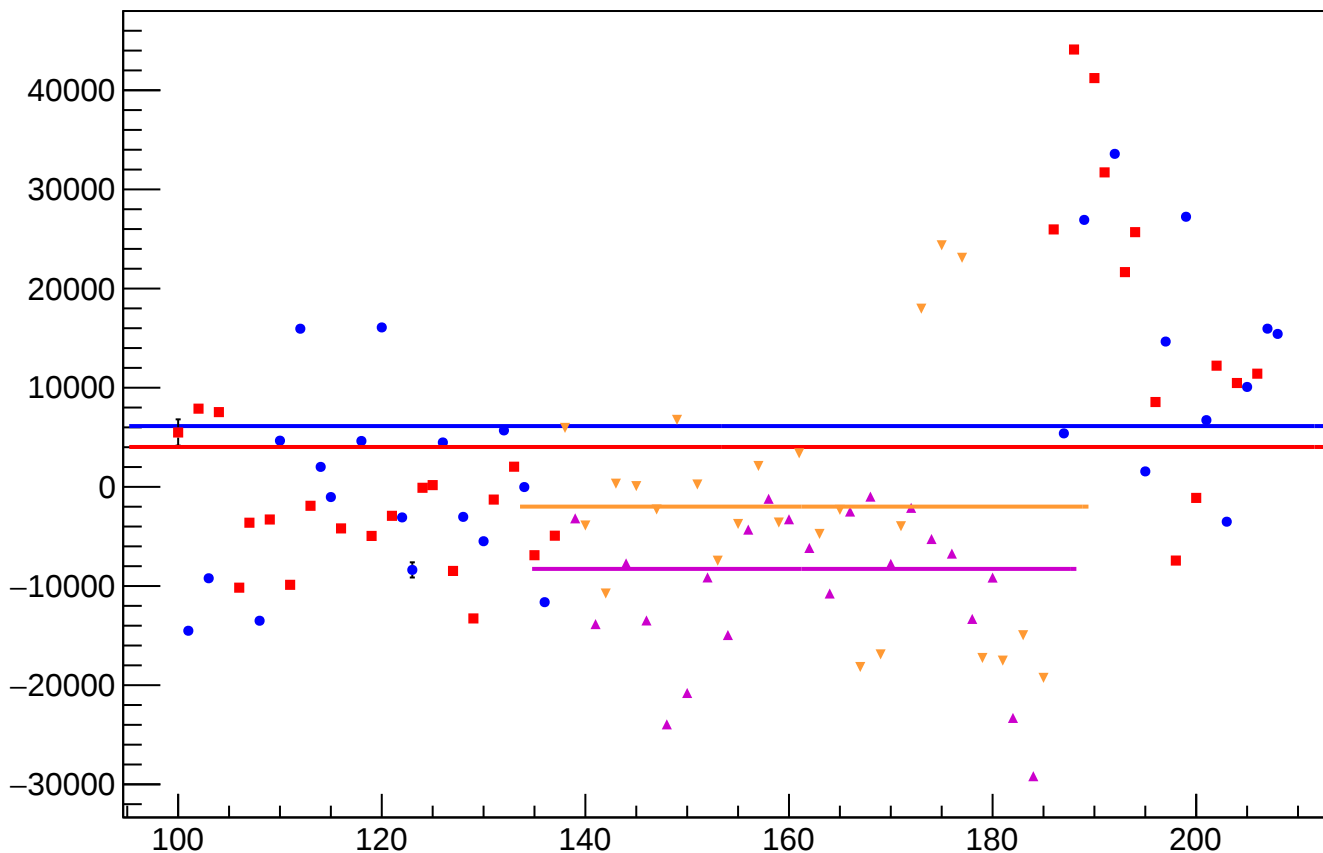
Right: 190.345 ± 0.026 χ^2/NDF : 3572981.7/58

In: 204.443 ± 0.027 χ^2/NDF : 3188744.8/50

Out: 212.749 ± 0.027 χ^2/NDF : 3861962.9/55

All: 208.525 ± 0.019 χ^2/NDF : 7098397.4/106

asym_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 6131.702 $\pm$ 42.020 χ^2 /NDF: 90632.2/27

Left Out: -1991.788 $\pm$ 42.427 χ^2 /NDF:63766.6/24

Right Out: 4023.041 $\pm$ 40.528 χ^2 /NDF: 134262.5/30

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

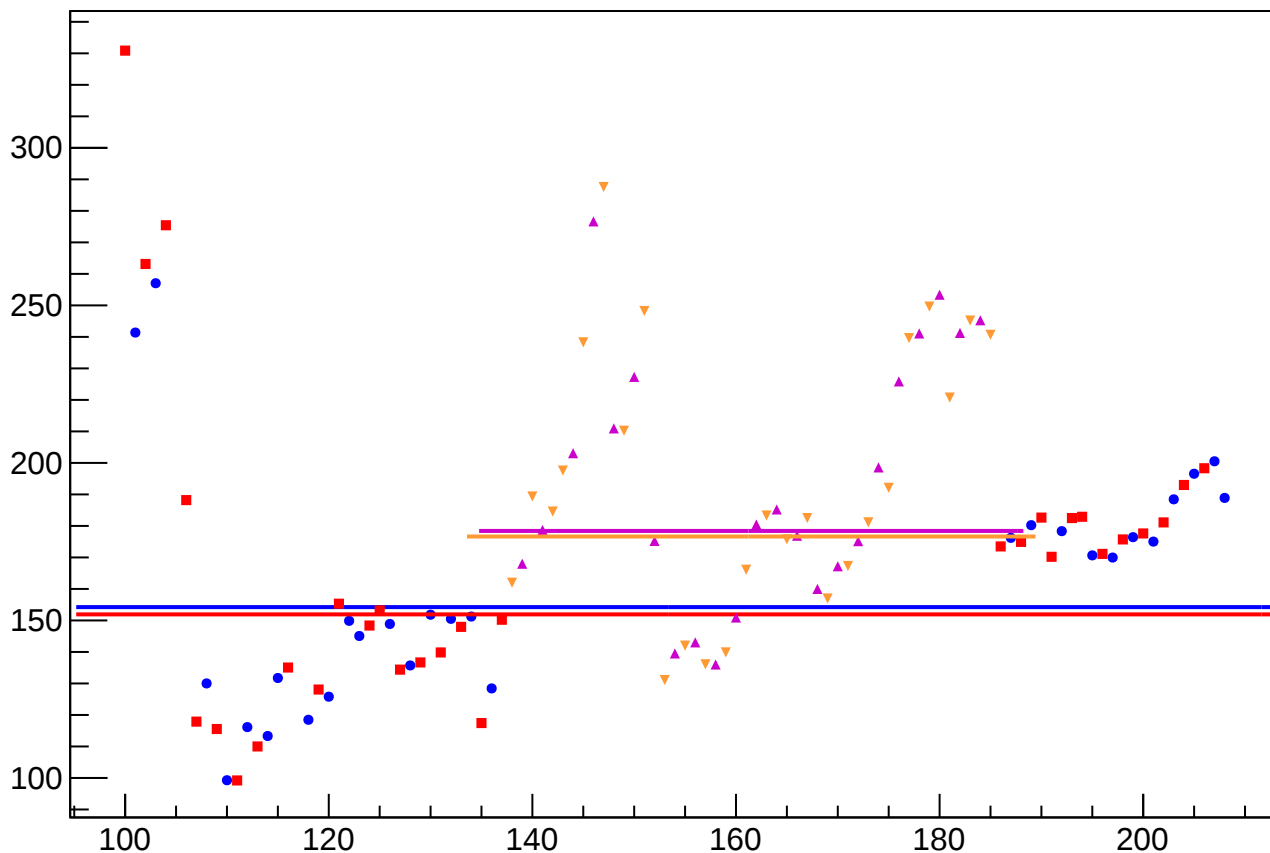
Right: 5039.269 $\pm$ 29.171 χ^2 /NDF: 226199.4/58

In: -690.312 $\pm$ 30.487 χ^2 /NDF:169159.0/50

Out: 1153.250 $\pm$ 29.306 χ^2 /NDF:208538.3/55

All: 267.878 $\pm$ 21.128 χ^2 /NDF: 379597.8/106

asym_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 154.232+/-0.030 χ^2/NDF : 1290550.5/27

Left Out: 176.641+/-0.030 χ^2/NDF :1551048.8/24

Right Out: 151.924+/-0.029 χ^2/NDF : 1530358.7/30

Left In: 178.413+/-0.031 χ^2/NDF :1293736.2/22

Left: 177.489+/-0.022 χ^2/NDF : 2846455.0/47

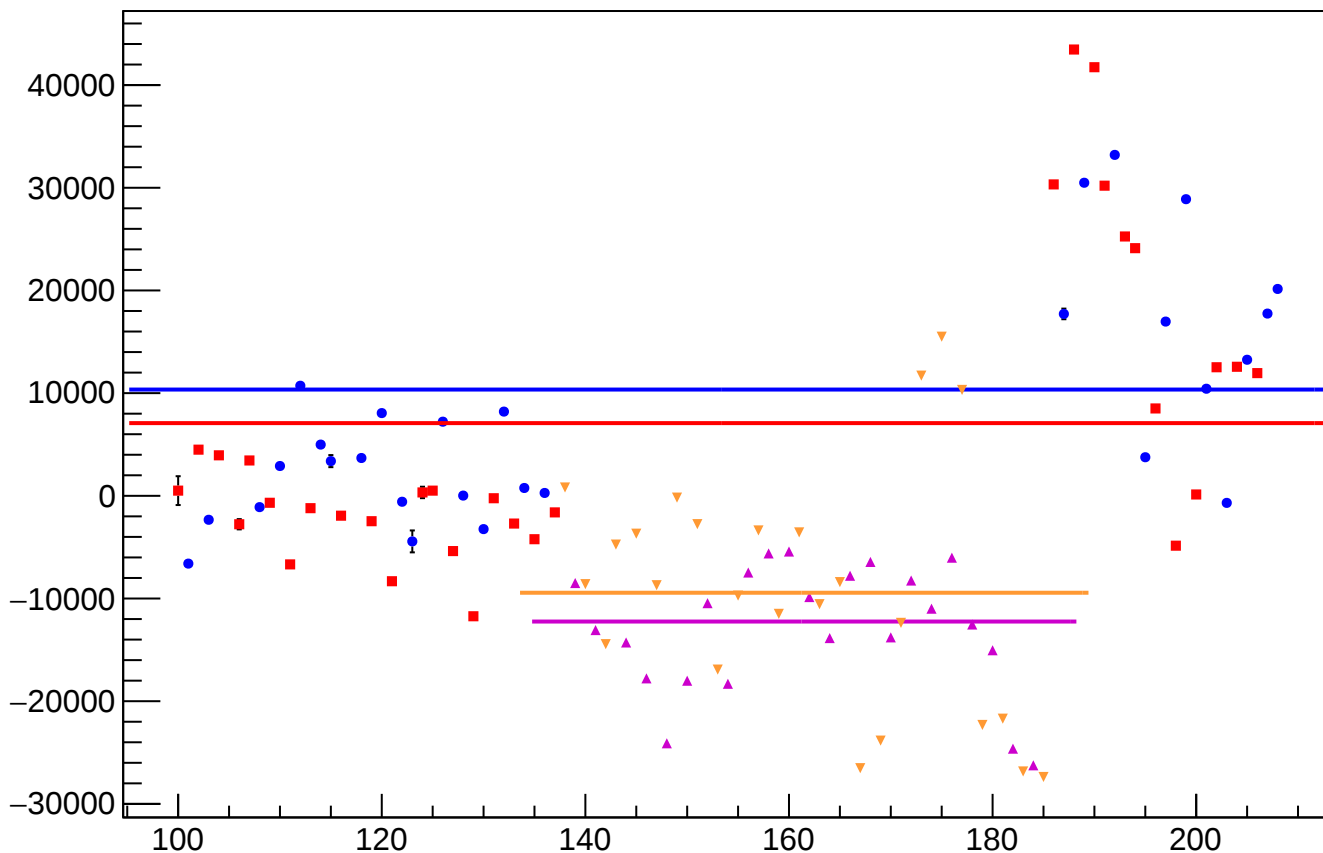
Right: 153.036+/-0.021 χ^2/NDF : 2824033.6/58

In: 165.684+/-0.022 χ^2/NDF :2897967.2/50

Out: 163.717+/-0.021 χ^2/NDF :3436318.3/55

All: 164.662+/-0.015 χ^2/NDF : 6338612.0/106

asym_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 10349.784+/-47.160

χ^2/NDF : 52244.8/27

Left: -10889.638+/-31.621

χ^2/NDF : 80800.7/47

Left Out: -9437.408+/-45.534

χ^2/NDF : 62220.4/24

Right: 8664.521+/-32.823

χ^2/NDF : 158334.6/58

Right Out: 7081.240+/-45.710

χ^2/NDF : 103613.1/30

In: -1742.540+/-32.150

χ^2/NDF : 191696.0/50

Out: -1209.972+/-32.260

χ^2/NDF : 231381.8/55

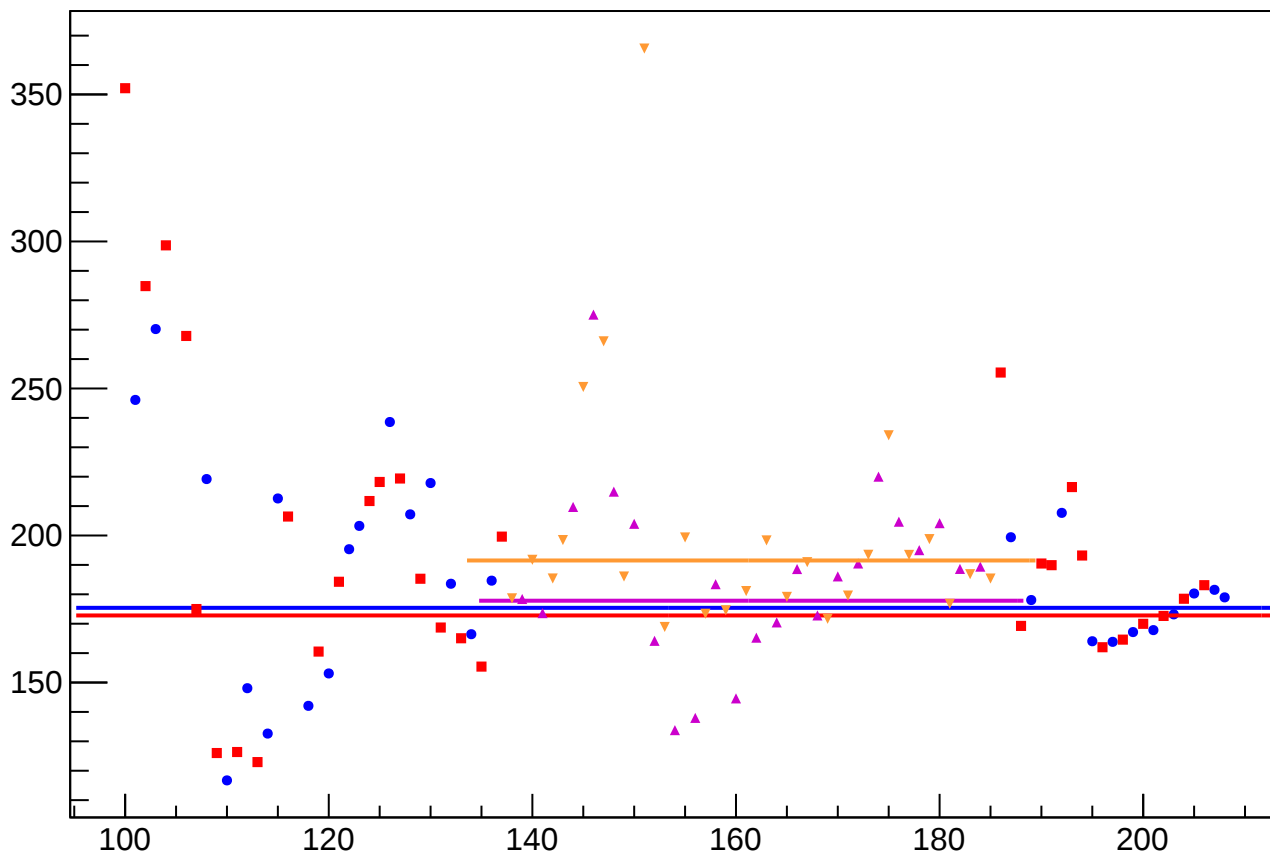
Left In: -12242.226+/-43.944

χ^2/NDF : 16615.8/22

All: -1477.163+/-22.772

χ^2/NDF : 423214.4/1

asym_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 175.401+/-0.033 χ^2/NDF : 762306.7/27

Left Out: 191.507+/-0.032 χ^2/NDF : 727251.6/24

Right Out: 172.808+/-0.032 χ^2/NDF : 1131650.6/30

Left In: 177.821+/-0.031 χ^2/NDF : 862494.4/22

Left: 184.421+/-0.022 χ^2/NDF : 1683284.8/47

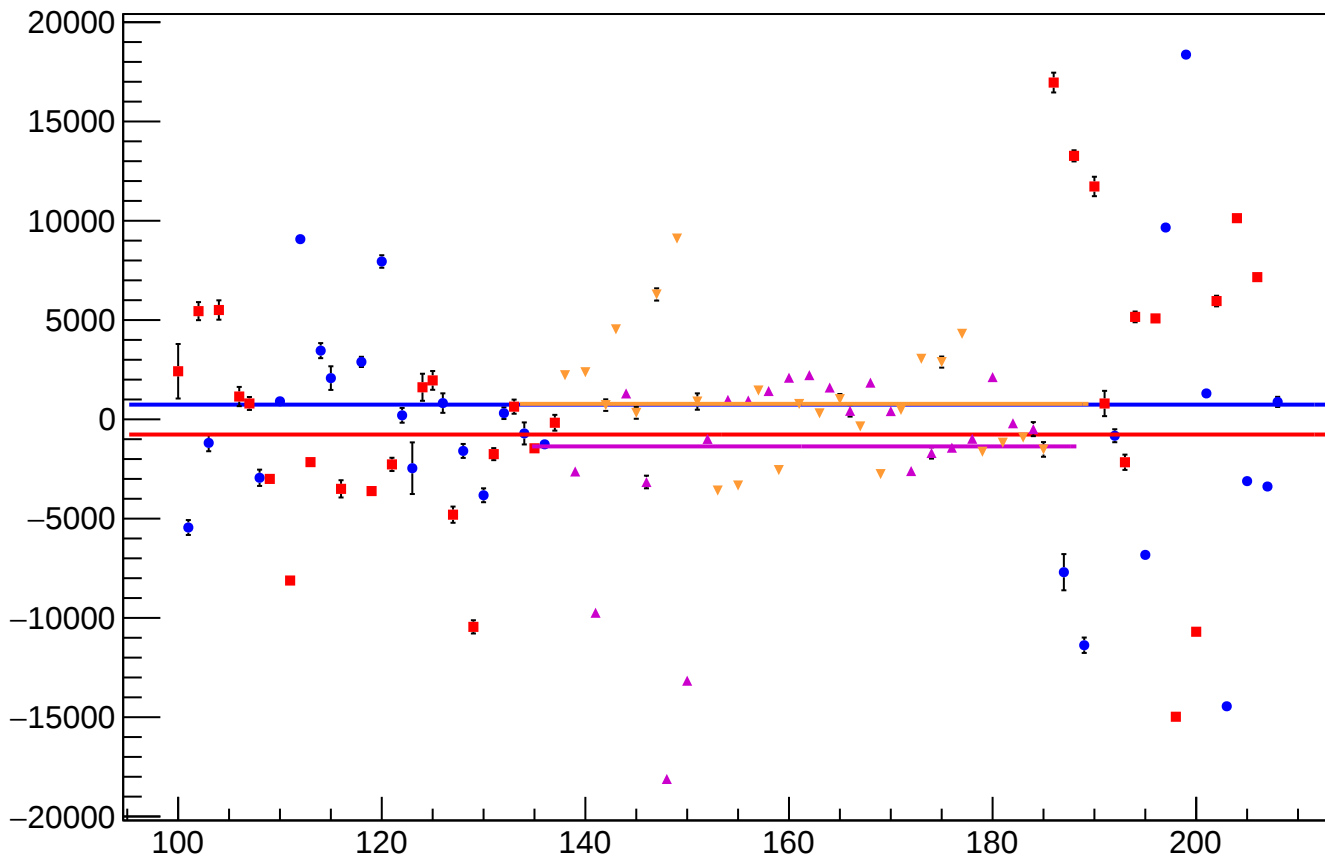
Right: 174.064+/-0.023 χ^2/NDF : 1897075.3/58

In: 176.697+/-0.023 χ^2/NDF : 1627621.1/50

Out: 182.193+/-0.023 χ^2/NDF : 2026891.0/55

All: 179.436+/-0.016 χ^2/NDF : 3683644.7/106

asym_bpm0i05WS_mean vs Slug, Sign Corrected



Right In: 740.666 ± 52.968 $\chi^2/\text{NDF}: 20338.2/27$

Left Out: 779.983 ± 47.457 $\chi^2/\text{NDF}: 4260.8/24$

Right Out: -765.096 ± 51.727 $\chi^2/\text{NDF}: 20346.1/30$

Left In: -1363.043 ± 45.807 $\chi^2/\text{NDF}: 11632.9/22$

Left: -329.448 ± 32.958 $\chi^2/\text{NDF}: 16949.3/47$

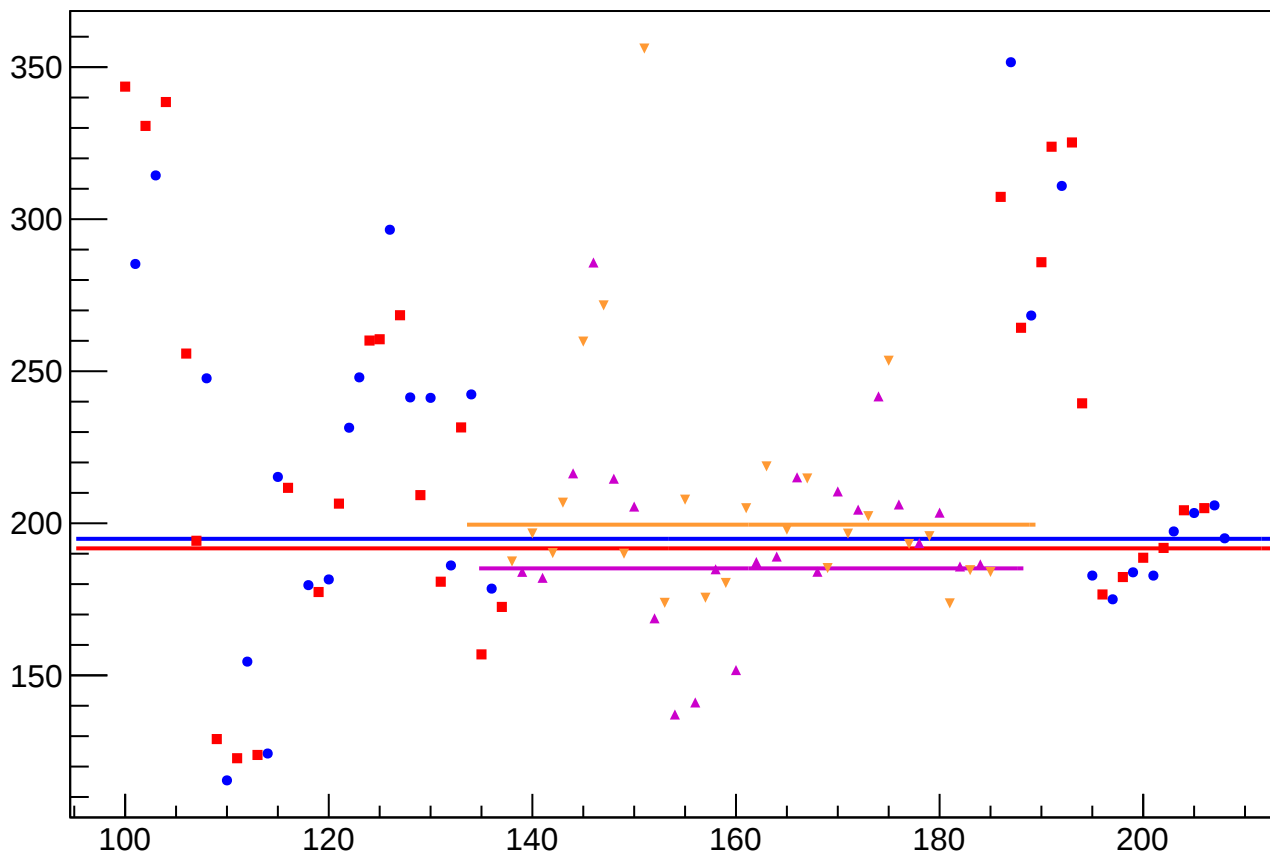
Right: -30.052 ± 37.008 $\chi^2/\text{NDF}: 41097.9/58$

In: -462.910 ± 34.648 $\chi^2/\text{NDF}: 32873.5/50$

Out: 73.839 ± 34.970 $\chi^2/\text{NDF}: 25091.3/55$

All: -197.019 ± 24.613 $\chi^2/\text{NDF}: 58083.7/106$

asym_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 194.893 ± 0.037 χ^2/NDF : 1415382.7/27

Left Out: 199.547 ± 0.034 χ^2/NDF : 729356.3/24

Right Out: 191.752 ± 0.037 χ^2/NDF : 2142233.6/30

Left In: 185.171 ± 0.032 χ^2/NDF : 882752.2/22

Left: 192.104 ± 0.023 χ^2/NDF : 1707122.0/47

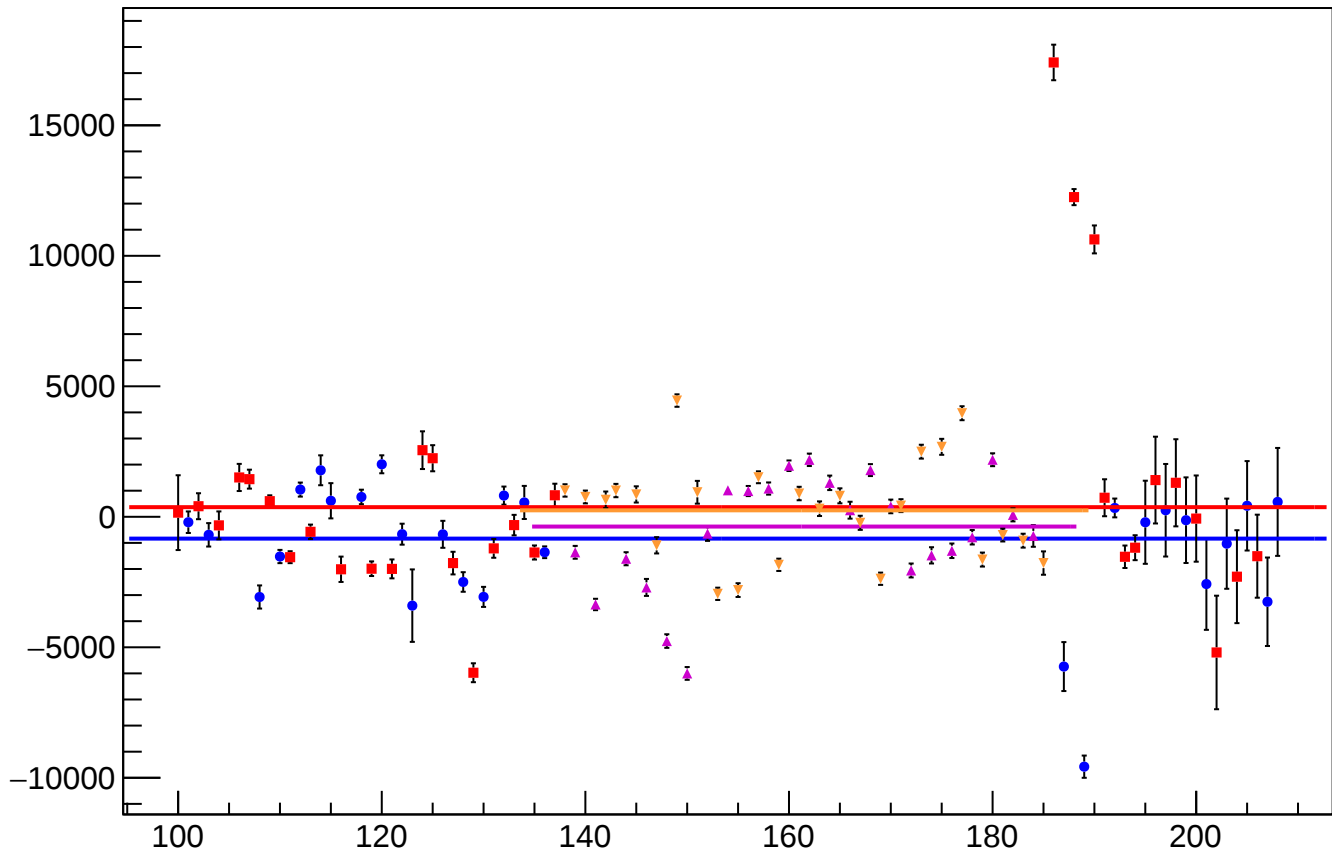
Right: 193.285 ± 0.026 χ^2/NDF : 3561214.7/58

In: 189.330 ± 0.024 χ^2/NDF : 2336684.5/50

Out: 195.985 ± 0.025 χ^2/NDF : 2896246.5/55

All: 192.627 ± 0.017 χ^2/NDF : 5269472.7/106

asym_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -835.946+/-83.372 χ^2/NDF : 764.2/27

Left Out: 247.844+/-53.555 χ^2/NDF :1355.1/24

Right Out: 368.996+/-74.990 χ^2/NDF : 3172.8/30

Left In: -374.122+/-52.049 χ^2/NDF :1801.0/22

Left: -72.006+/-37.325 χ^2/NDF : 3225.5/47

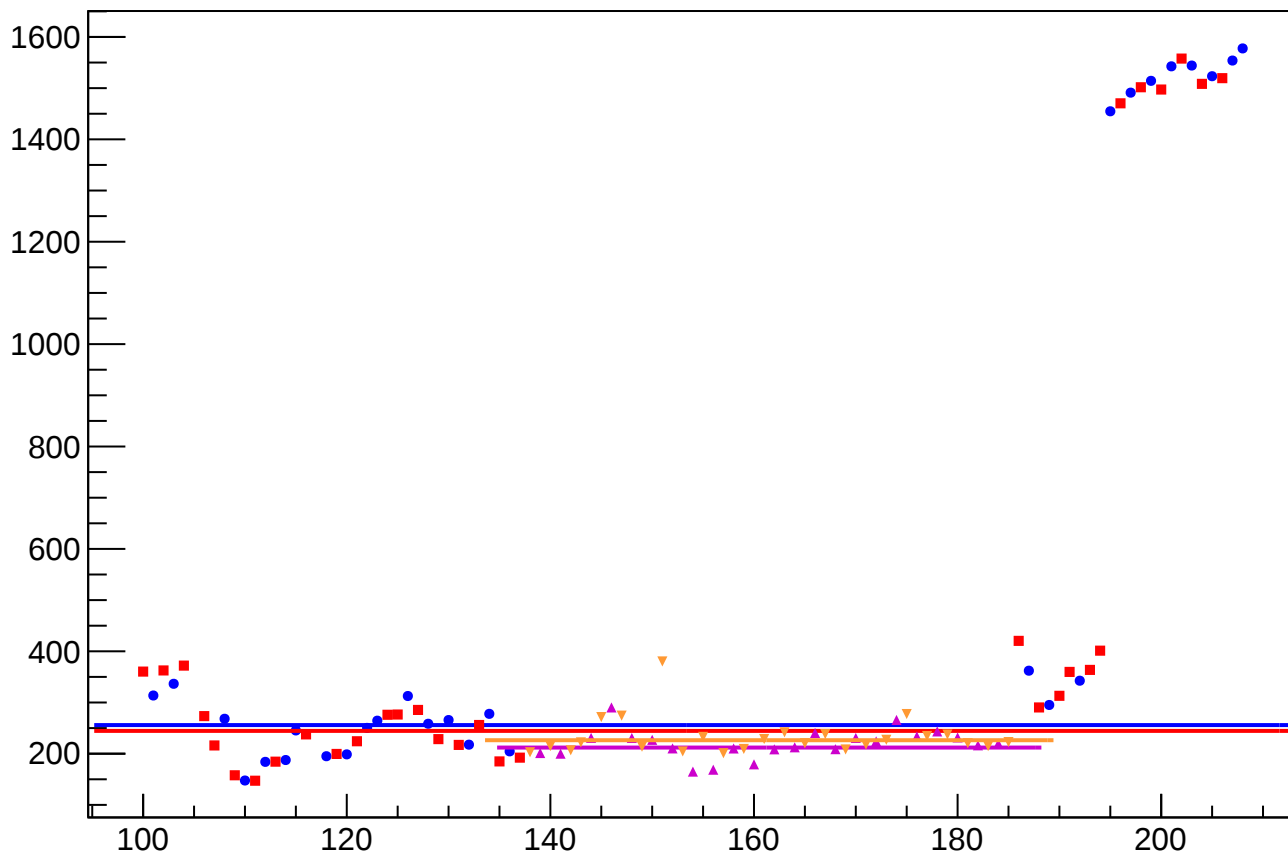
Right: -169.873+/-55.754 χ^2/NDF : 4052.4/58

In: -503.638+/-44.151 χ^2/NDF :2587.3/50

Out: 288.764+/-43.582 χ^2/NDF :4529.6/55

All: -102.293+/-31.016 χ^2/NDF : 7280.0/106

asym_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 255.878+/-0.059 χ^2/NDF : 9660935.2/27

Left Out: 226.322+/-0.038 χ^2/NDF : 521041.8/24

Right Out: 244.547+/-0.053 χ^2/NDF : 8269831.4/30

Left In: 211.970+/-0.037 χ^2/NDF : 584344.5/22

Left: 218.941+/-0.026 χ^2/NDF : 1179246.7/47

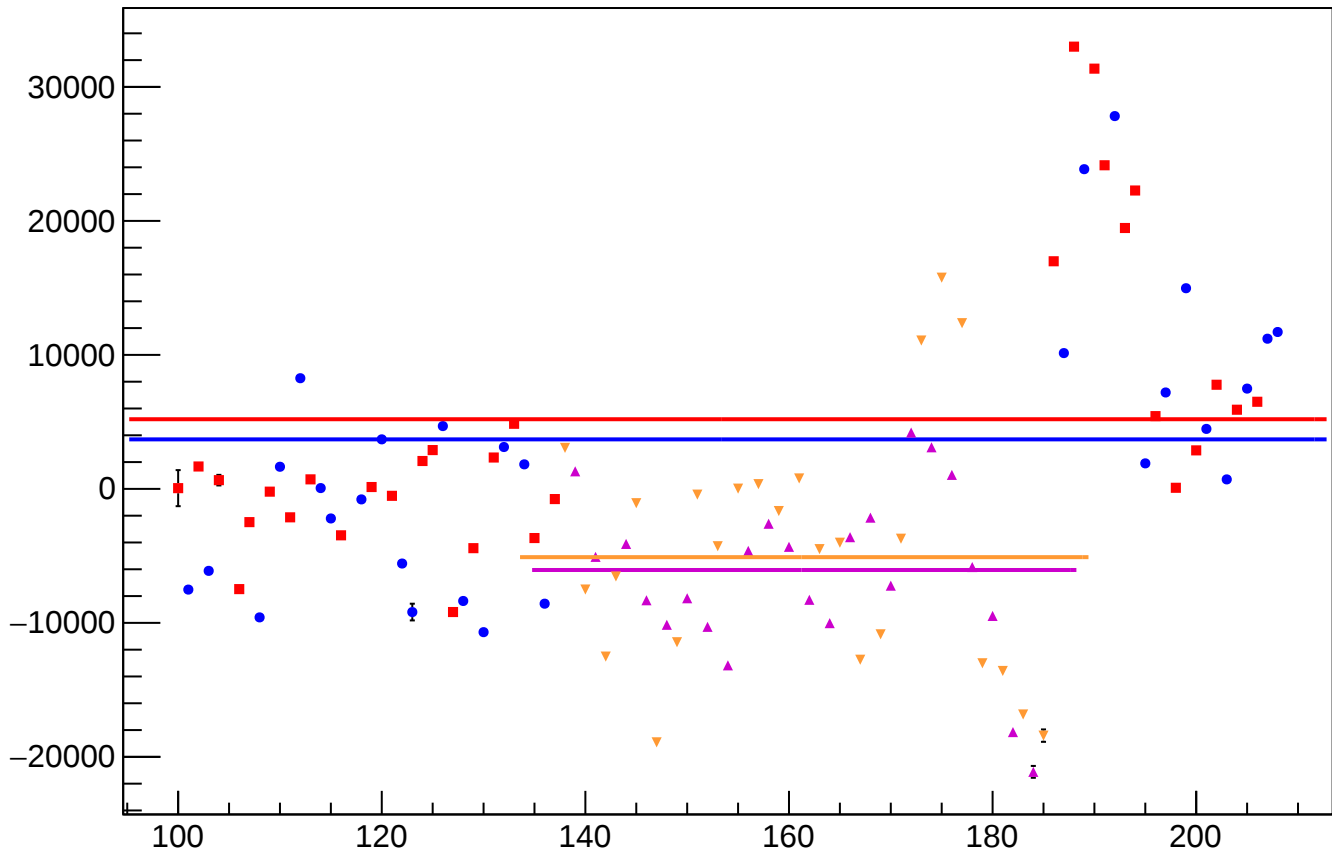
Right: 249.614+/-0.039 χ^2/NDF : 17951189.3/58

In: 224.284+/-0.031 χ^2/NDF : 10644432.1/50

Out: 232.477+/-0.031 χ^2/NDF : 8869103.4/55

All: 228.434+/-0.022 χ^2/NDF : 19548421.6/100

asym_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: 3694.951 ± 35.717 $\chi^2/\text{NDF}: 77238.0/27$

Left Out: -5095.305 ± 33.703 $\chi^2/\text{NDF}: 54395.4/24$

Right Out: 5198.497 ± 34.151 $\chi^2/\text{NDF}: 101070.7/30$

Left In: -6053.569 ± 34.998 $\chi^2/\text{NDF}: 17590.3/22$

Left: -5556.386 ± 24.277 $\chi^2/\text{NDF}: 72374.6/47$

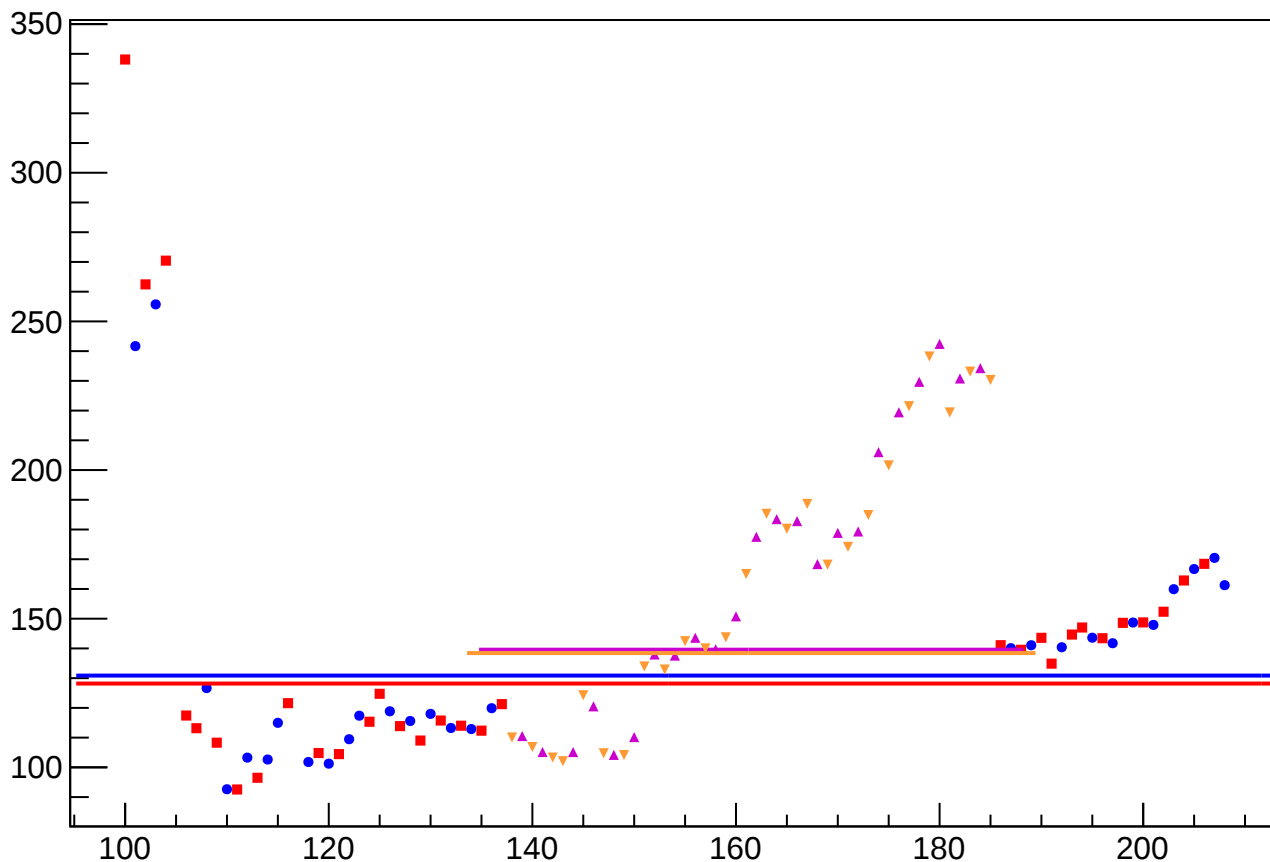
Right: 4480.405 ± 24.684 $\chi^2/\text{NDF}: 179234.4/58$

In: -1278.447 ± 24.998 $\chi^2/\text{NDF}: 132832.8/50$

Out: -16.349 ± 23.989 $\chi^2/\text{NDF}: 201491.9/55$

All: -621.412 ± 17.308 $\chi^2/\text{NDF}: 335651.7/10$

asym_bpm1i02WS_rms vs Slug, Sign Corrected



Right In: 130.866 $\pm$ 0.025 χ^2/NDF : 1286966.5/27

Left Out: 138.436 $\pm$ 0.024 χ^2/NDF : 2549435.8/24

Right Out: 128.185 $\pm$ 0.024 χ^2/NDF : 1360974.7/30

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

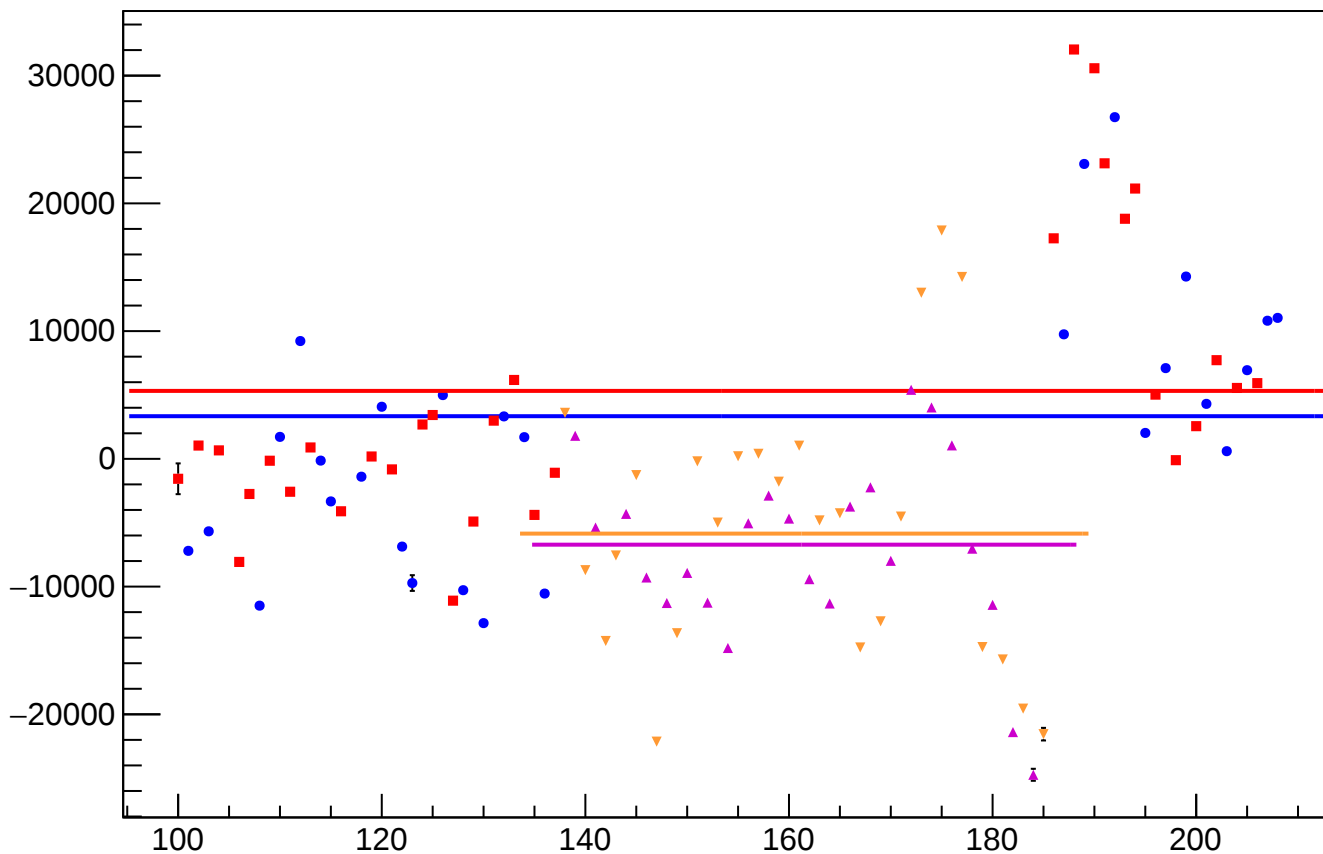
Right: 129.465 $\pm$ 0.017 χ^2/NDF : 2653825.9/58

In: 135.310 $\pm$ 0.018 χ^2/NDF : 3761330.8/50

Out: 133.378 $\pm$ 0.017 χ^2/NDF : 4001689.7/55

All: 134.304 $\pm$ 0.012 χ^2/NDF : 7769241.4/106

asym_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: 3338.979+/-35.795

χ^2/NDF : 82360.4/27

Left Out: -5852.544+/-35.880

χ^2/NDF : 63411.4/24

Right Out: 5319.756+/-34.400

χ^2/NDF : 101535.1/30

Left In: -6718.475+/-37.276

χ^2/NDF : 20934.3/22

Left: -6268.993+/-25.850

χ^2/NDF : 84625.8/47

Right: 4368.721+/-24.803

χ^2/NDF : 185487.4/58

In: -1486.043+/-25.818

χ^2/NDF : 141168.9/50

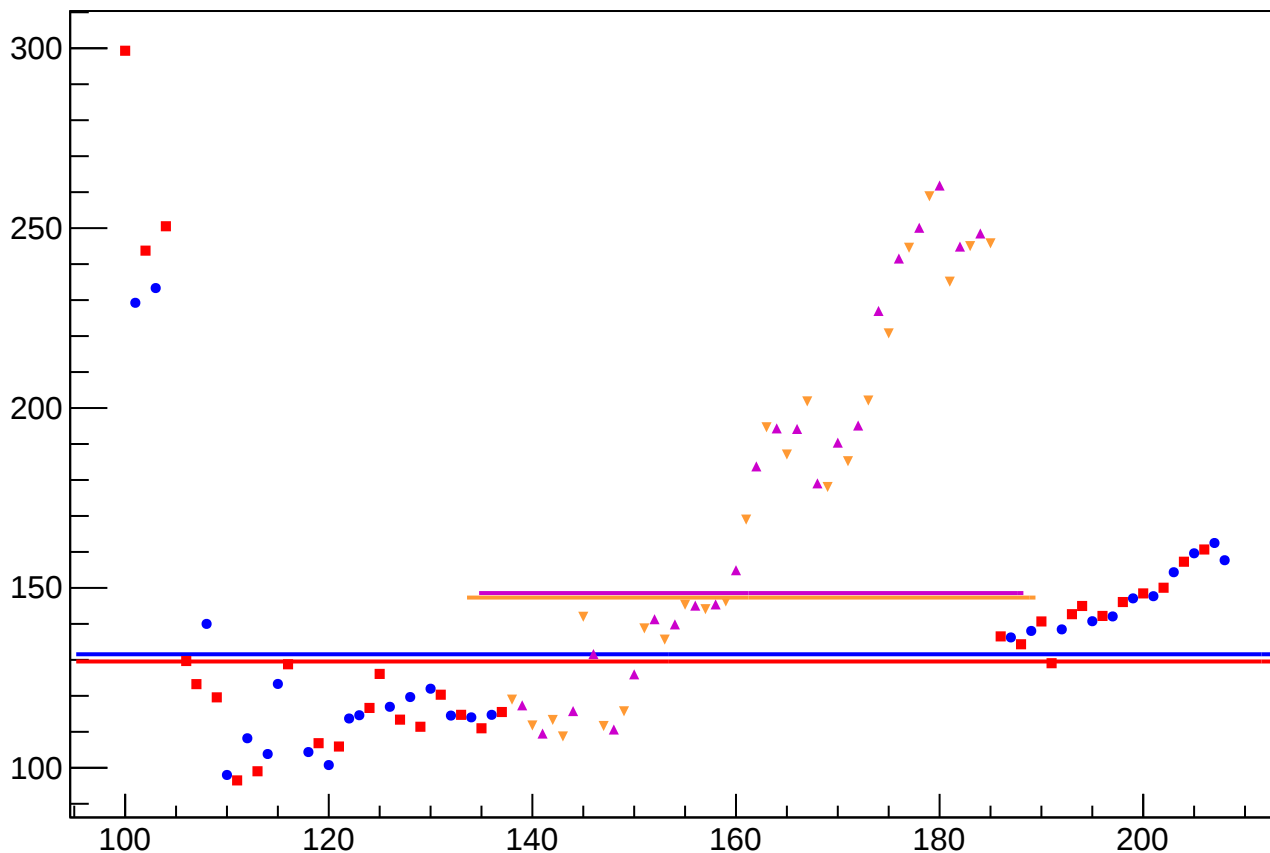
Out: -31.235+/-24.831

χ^2/NDF : 215466.6/55

All: -730.290+/-17.897

χ^2/NDF : 358284.9/10

asym_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 131.557 +/- 0.025 χ^2/NDF : 1026117.6/27

Left Out: 147.317 +/- 0.025 χ^2/NDF : 2511679.9/24

Right Out: 129.550 +/- 0.024 χ^2/NDF : 1070054.2/30

Left In: 148.569 +/- 0.026 χ^2/NDF : 2393185.0/22

Left: 147.919 +/- 0.018 χ^2/NDF : 4906034.9/47

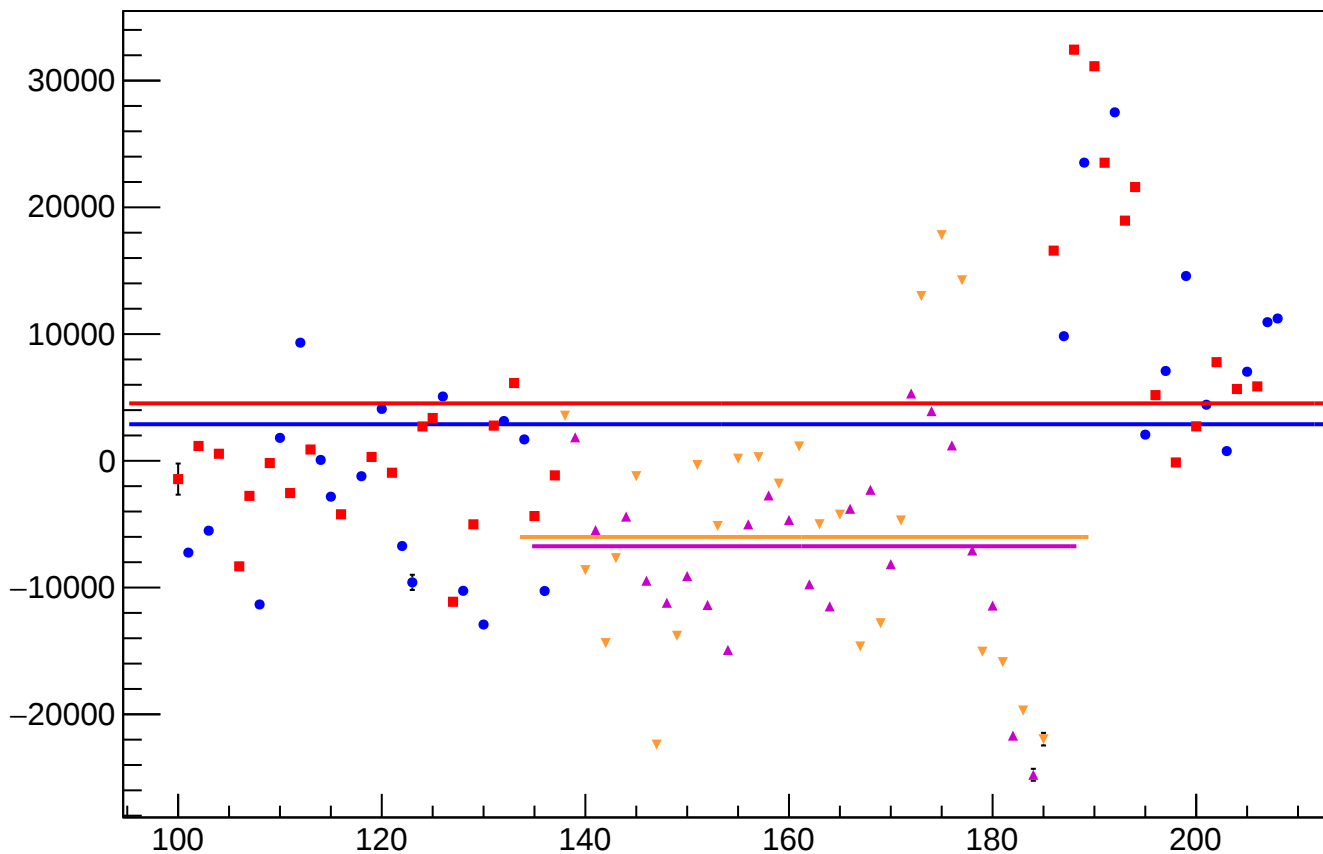
Right: 130.514 +/- 0.018 χ^2/NDF : 2099441.6/58

In: 139.718 +/- 0.018 χ^2/NDF : 3636003.2/50

Out: 138.060 +/- 0.018 χ^2/NDF : 3837263.2/55

All: 138.857 +/- 0.013 χ^2/NDF : 7477555.1/106

asym_bpm2i02WS_mean vs Slug, Sign Corrected



Right In: 2886.254+/-35.554

χ^2/NDF : 81899.0/27

Left Out: -6009.913+/-35.082

χ^2/NDF : 67852.2/24

Right Out: 4532.676+/-34.203

χ^2/NDF : 96212.3/30

Left In: -6740.666+/-36.379

χ^2/NDF : 22071.8/22

Left: -6362.031+/-25.253

χ^2/NDF : 90133.1/47

Right: 3741.361+/-24.649

χ^2/NDF : 179225.0/58

In: -1816.819+/-25.427

χ^2/NDF : 139787.1/50

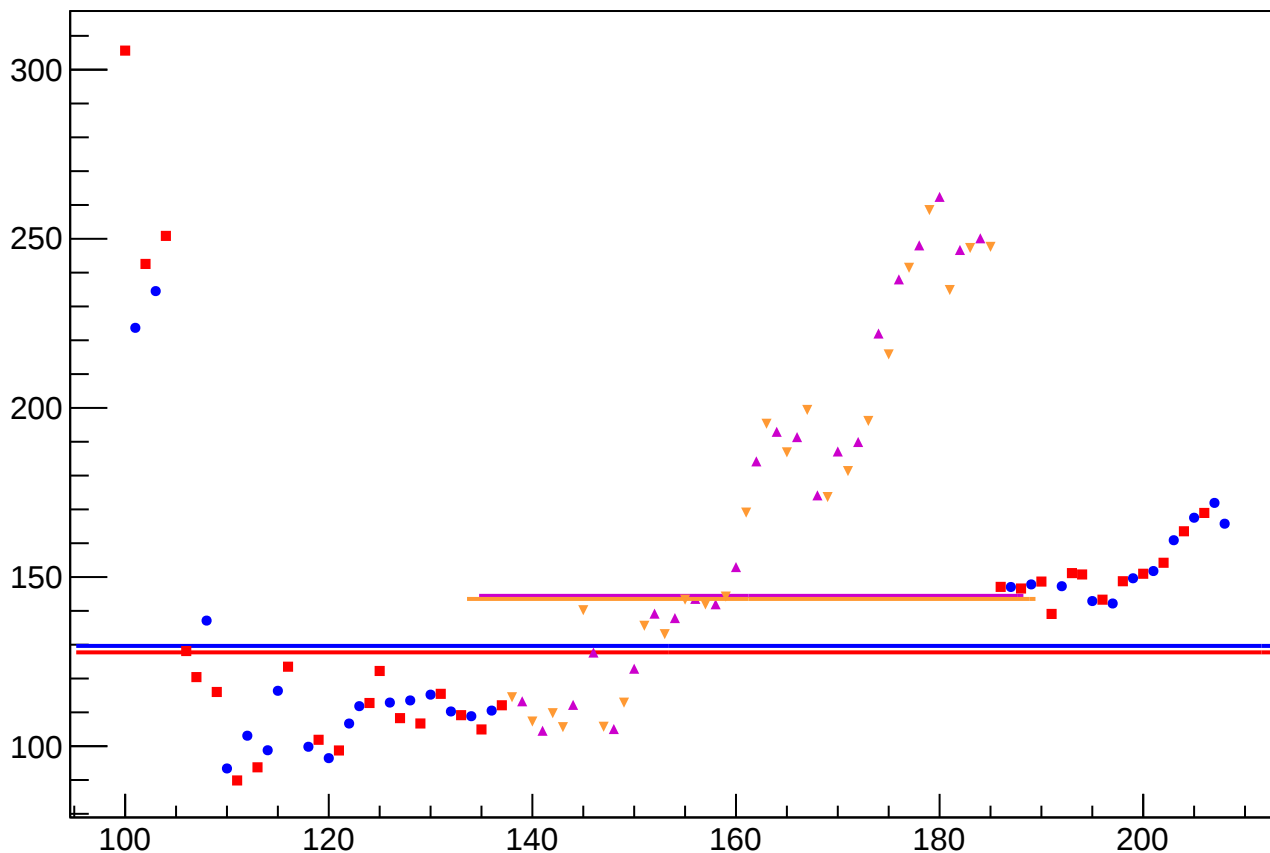
Out: -604.764+/-24.490

χ^2/NDF : 210364.2/55

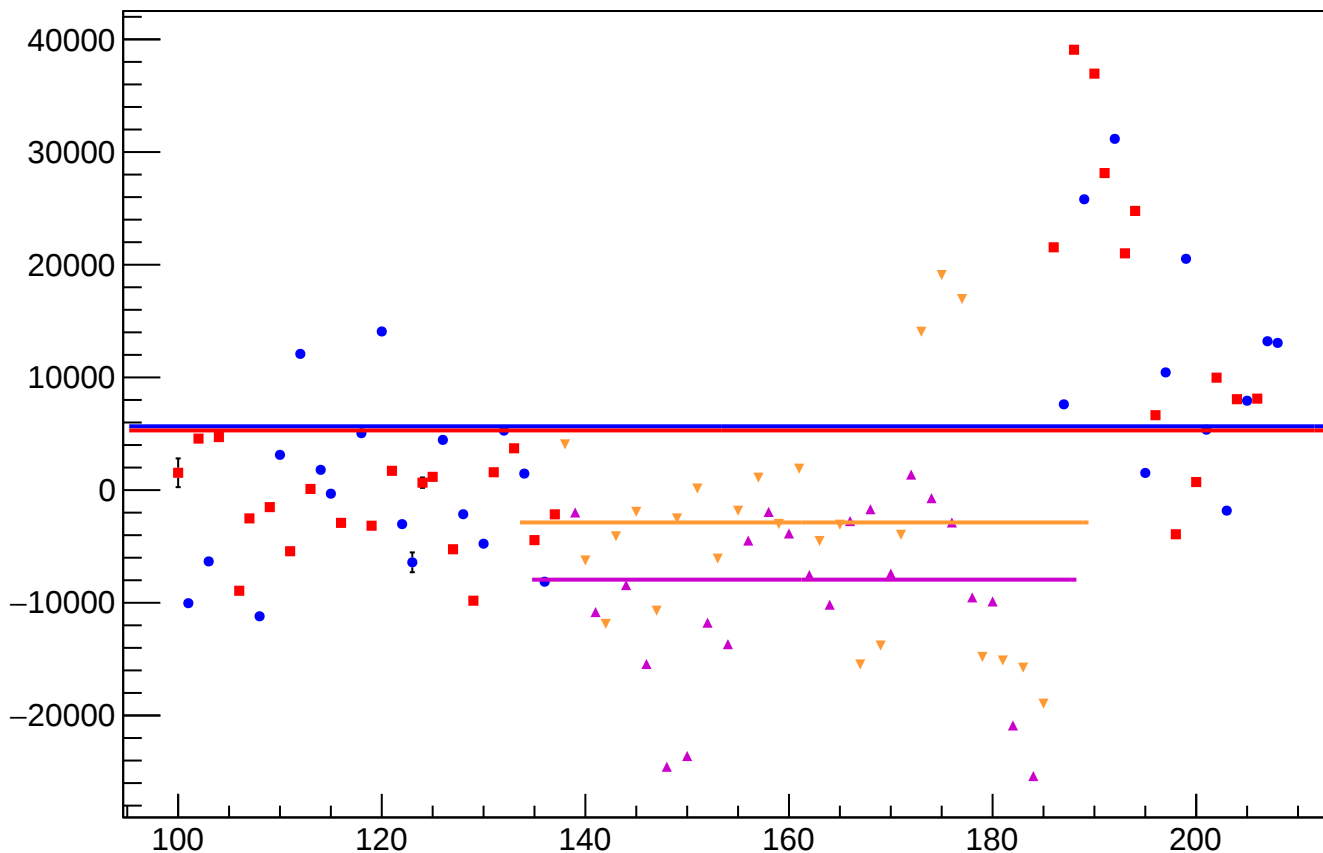
All: -1188.037+/-17.639

χ^2/NDF : 351330.1/11

asym_bpm2i02WS_rms vs Slug, Sign Corrected



asym_bpm0i01WS_mean vs Slug, Sign Corrected



Right In: 5662.602 $\pm$ 43.014 χ^2 /NDF: 61937.5/27

Left Out: -2870.473 $\pm$ 39.482 χ^2 /NDF: 46420.3/24

Right Out: 5296.165 $\pm$ 41.388 χ^2 /NDF: 95553.1/30

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

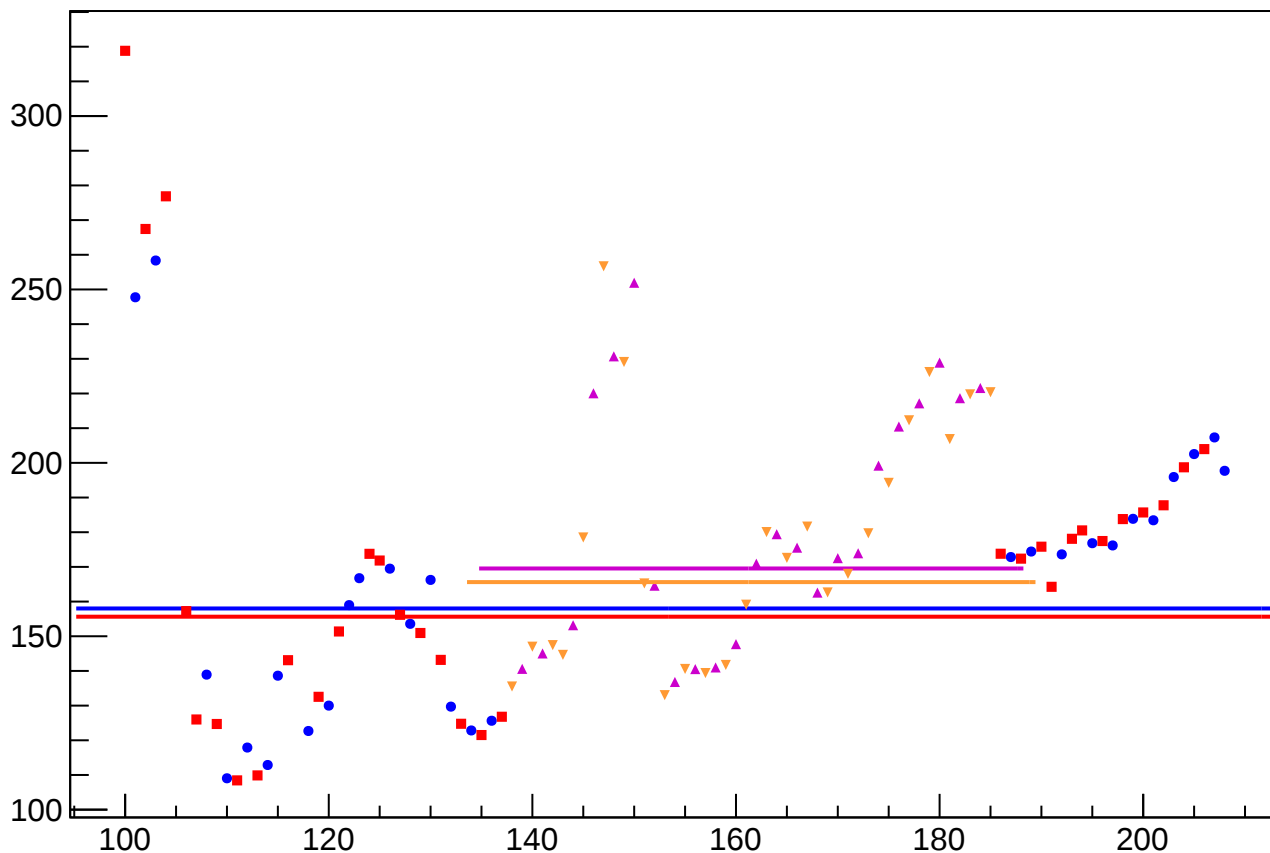
Right: 5472.323 $\pm$ 29.824 χ^2 /NDF: 157528.3/58

In: -1349.207 $\pm$ 29.950 χ^2 /NDF: 137388.5/50

Out: 1020.534 $\pm$ 28.568 χ^2 /NDF: 162358.0/55

All: -108.410 $\pm$ 20.672 χ^2 /NDF: 303024.6/100

asym_bpm0i01WS_rms vs Slug, Sign Corrected



Right In: 158.011+/-0.030 χ^2/NDF : 1310132.6/27

Left Out: 165.616+/-0.028 χ^2/NDF : 1144779.3/24

Right Out: 155.641+/-0.029 χ^2/NDF : 1389697.6/30

Left In: 169.542+/-0.030 χ^2/NDF : 1159241.9/22

Left: 167.471+/-0.020 χ^2/NDF : 2313359.6/47

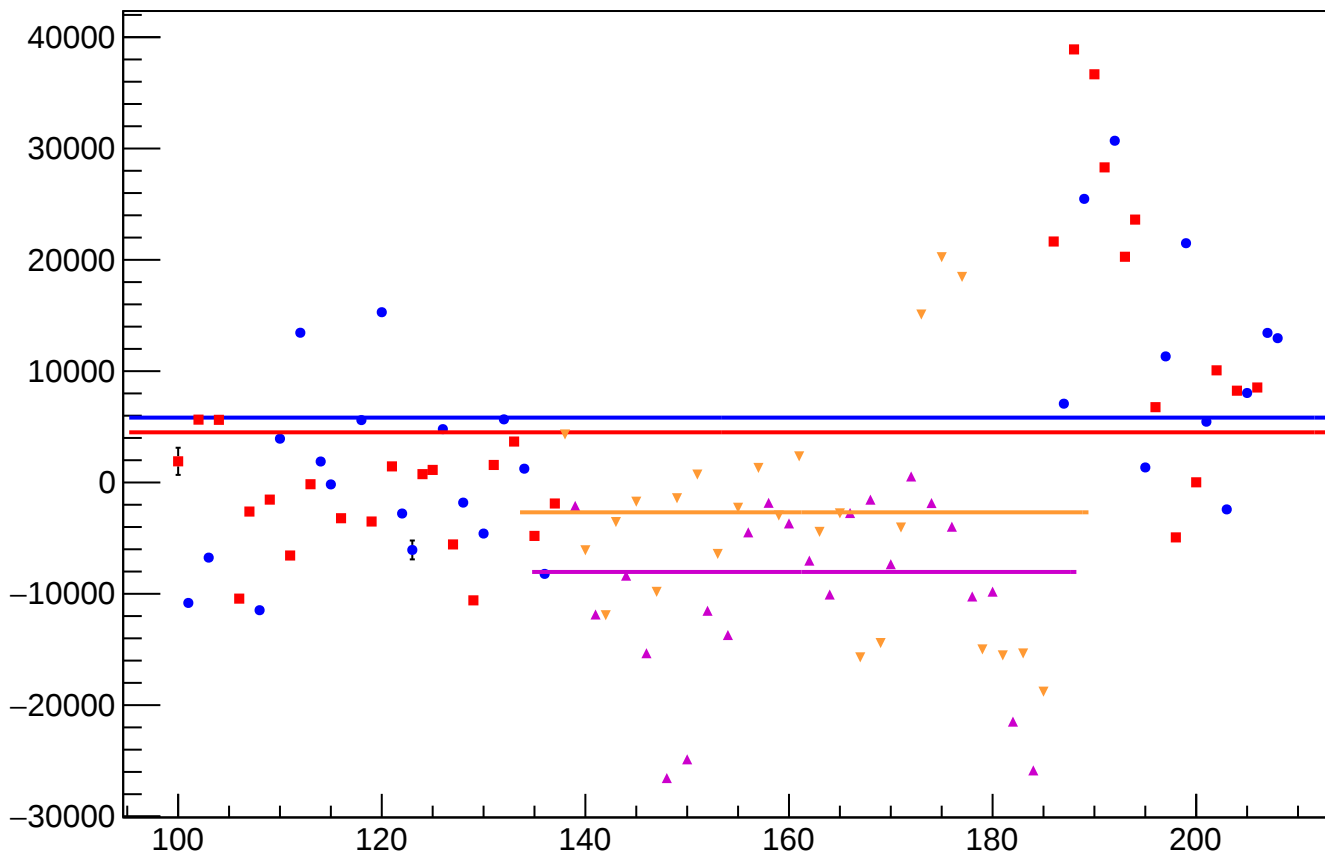
Right: 156.781+/-0.021 χ^2/NDF : 2702983.6/58

In: 163.952+/-0.021 χ^2/NDF : 2543412.1/50

Out: 160.864+/-0.020 χ^2/NDF : 2595302.5/55

All: 162.335+/-0.015 χ^2/NDF : 5149848.5/106

asym_bpm0i01aWS_mean vs Slug, Sign Corrected



Right In: 5827.688+/-36.310

χ^2/NDF : 87024.7/27

Left: -5201.473+/-26.019

χ^2/NDF : 96642.3/47

Left Out: -2680.012+/-35.764

χ^2/NDF : 56820.4/24

Right: 5136.754+/-25.082

χ^2/NDF : 220912.8/58

Right Out: 4506.180+/-34.688

χ^2/NDF : 133195.6/30

In: -803.183+/-26.227

χ^2/NDF : 186017.0/50

Left In: -8036.826+/-37.924

χ^2/NDF : 29261.6/22

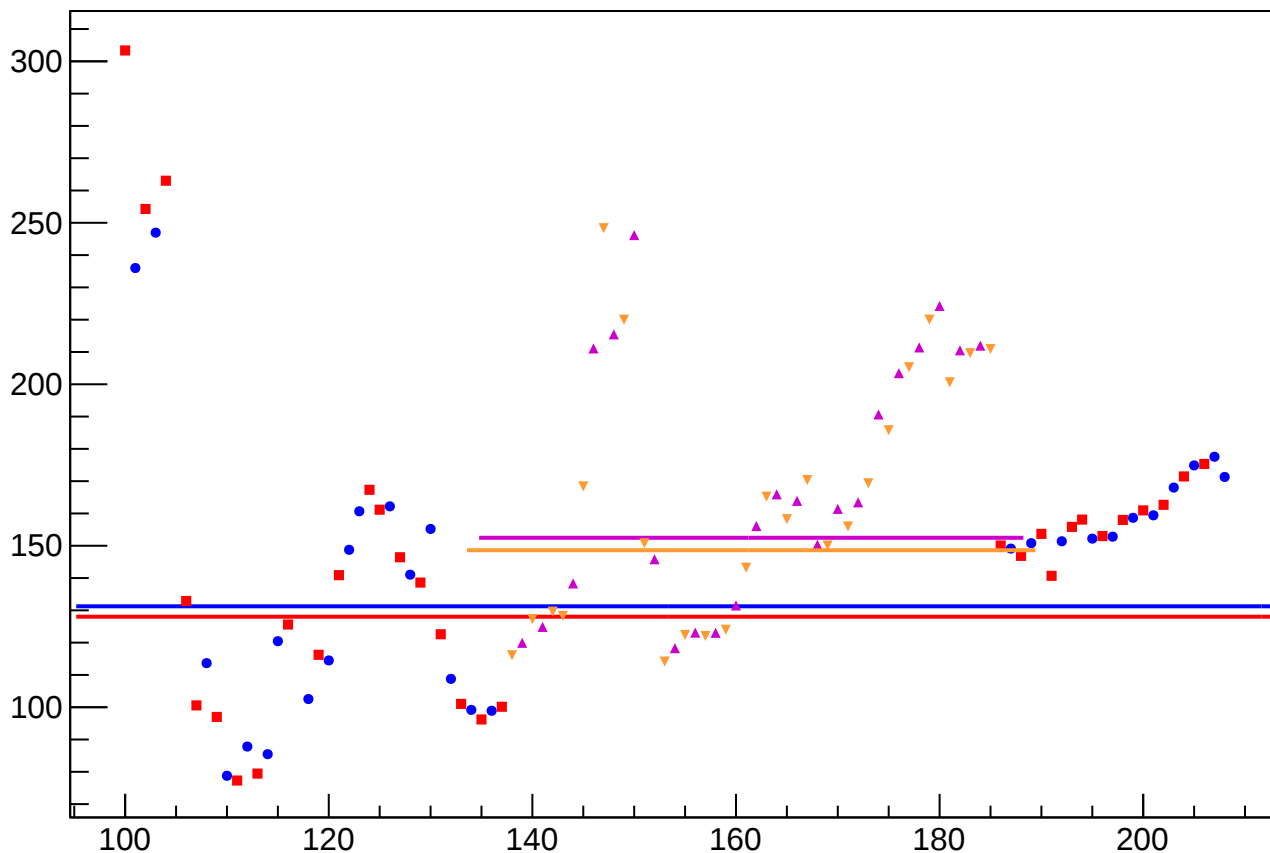
Out: 1022.804+/-24.900

χ^2/NDF : 210820.0/55

All: 157.194+/-18.058

χ^2/NDF : 399386.5/106

asym_bpm0i01aWS_rms vs Slug, Sign Corrected



Right In: 131.253+/-0.026 χ^2/NDF : 2021339.7/27

Left Out: 148.611+/-0.025 χ^2/NDF : 1685424.1/24

Right Out: 128.032+/-0.025 χ^2/NDF : 2236927.7/30

Left In: 152.463+/-0.027 χ^2/NDF : 1691517.7/22

Left: 150.424+/-0.018 χ^2/NDF : 3387867.0/47

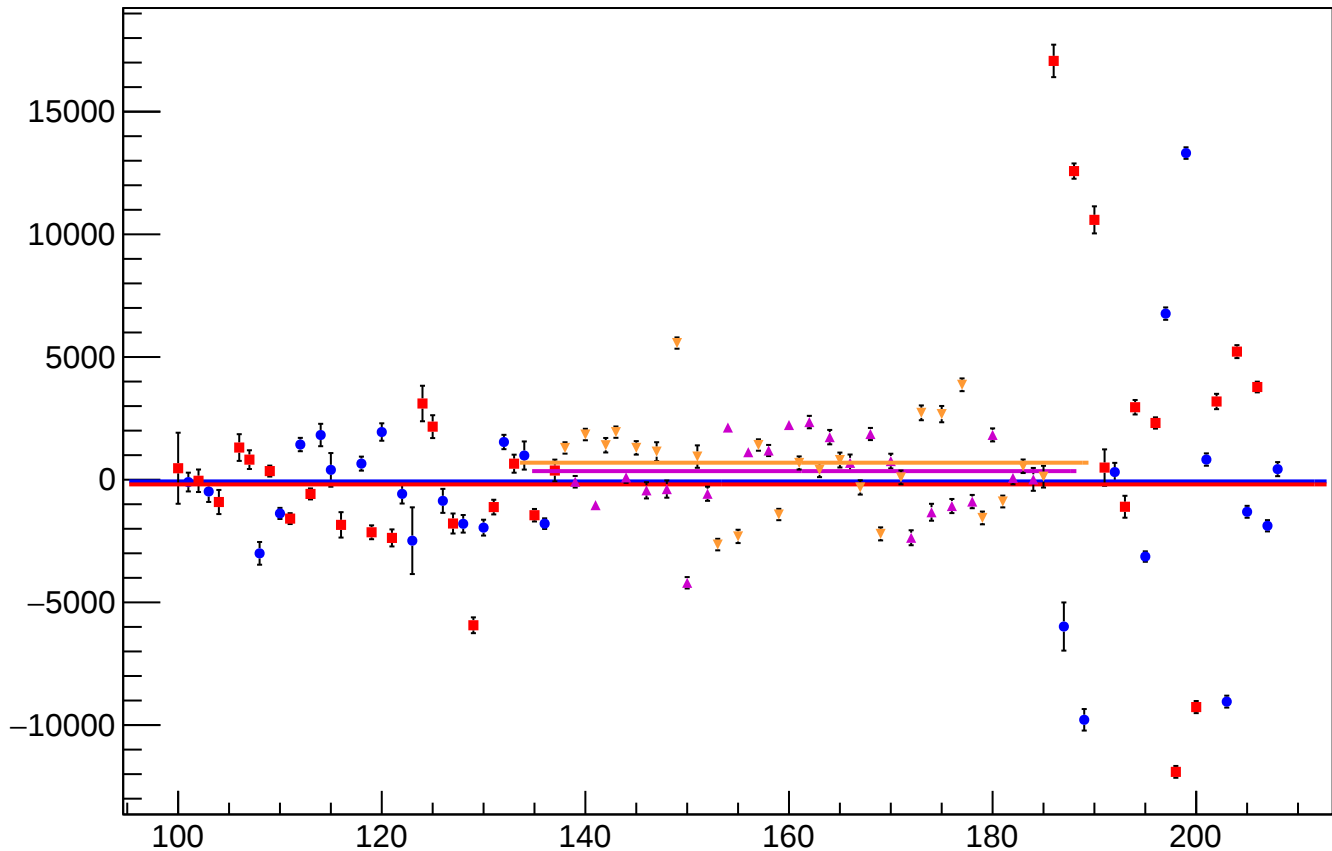
Right: 129.569+/-0.018 χ^2/NDF : 4266494.3/58

In: 141.397+/-0.019 χ^2/NDF : 4039257.7/50

Out: 138.007+/-0.018 χ^2/NDF : 4263551.8/55

All: 139.614+/-0.013 χ^2/NDF : 8320381.5/106

asym_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: -69.682 ± 58.573 χ^2/NDF : 6488.1/27

Left Out: 692.998 ± 54.303 χ^2/NDF : 1422.0/24

Right Out: -191.748 ± 57.928 χ^2/NDF : 8129.5/30

Left In: 349.623 ± 53.094 χ^2/NDF : 981.0/22

Left: 517.444 ± 37.963 χ^2/NDF : 2423.4/47

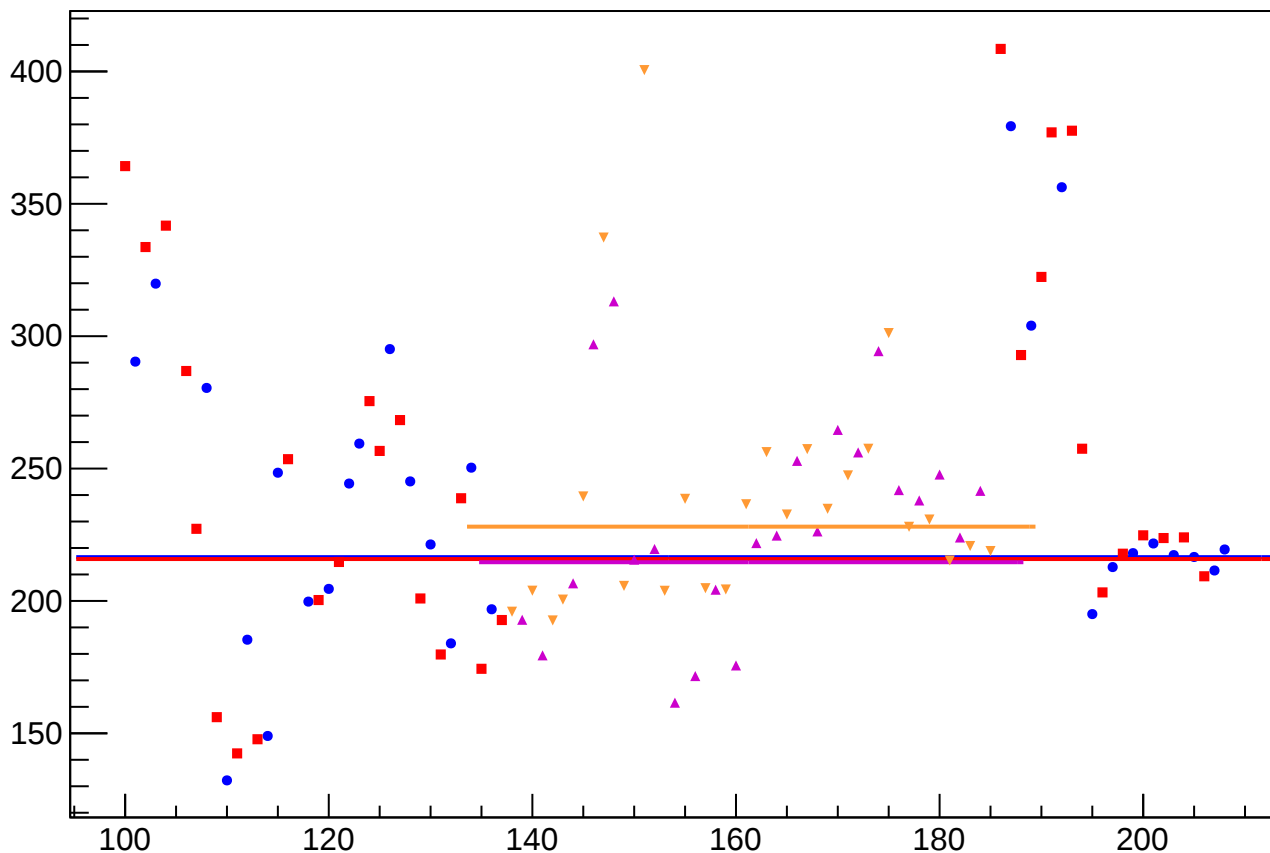
Right: -131.391 ± 41.187 χ^2/NDF : 14619.8/58

In: 160.493 ± 39.338 χ^2/NDF : 7497.2/50

Out: 279.171 ± 39.618 χ^2/NDF : 9675.7/55

All: 219.411 ± 27.915 χ^2/NDF : 17177.5/106

asym_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 216.539 ± 0.041 $\chi^2/\text{NDF}: 1150967.2/27$

Left Out: 228.061 ± 0.038 $\chi^2/\text{NDF}: 826343.8/24$

Right Out: 215.829 ± 0.041 $\chi^2/\text{NDF}: 1822602.9/30$

Left In: 214.627 ± 0.038 $\chi^2/\text{NDF}: 1025683.3/22$

Left: 221.193 ± 0.027 $\chi^2/\text{NDF}: 1914604.4/47$

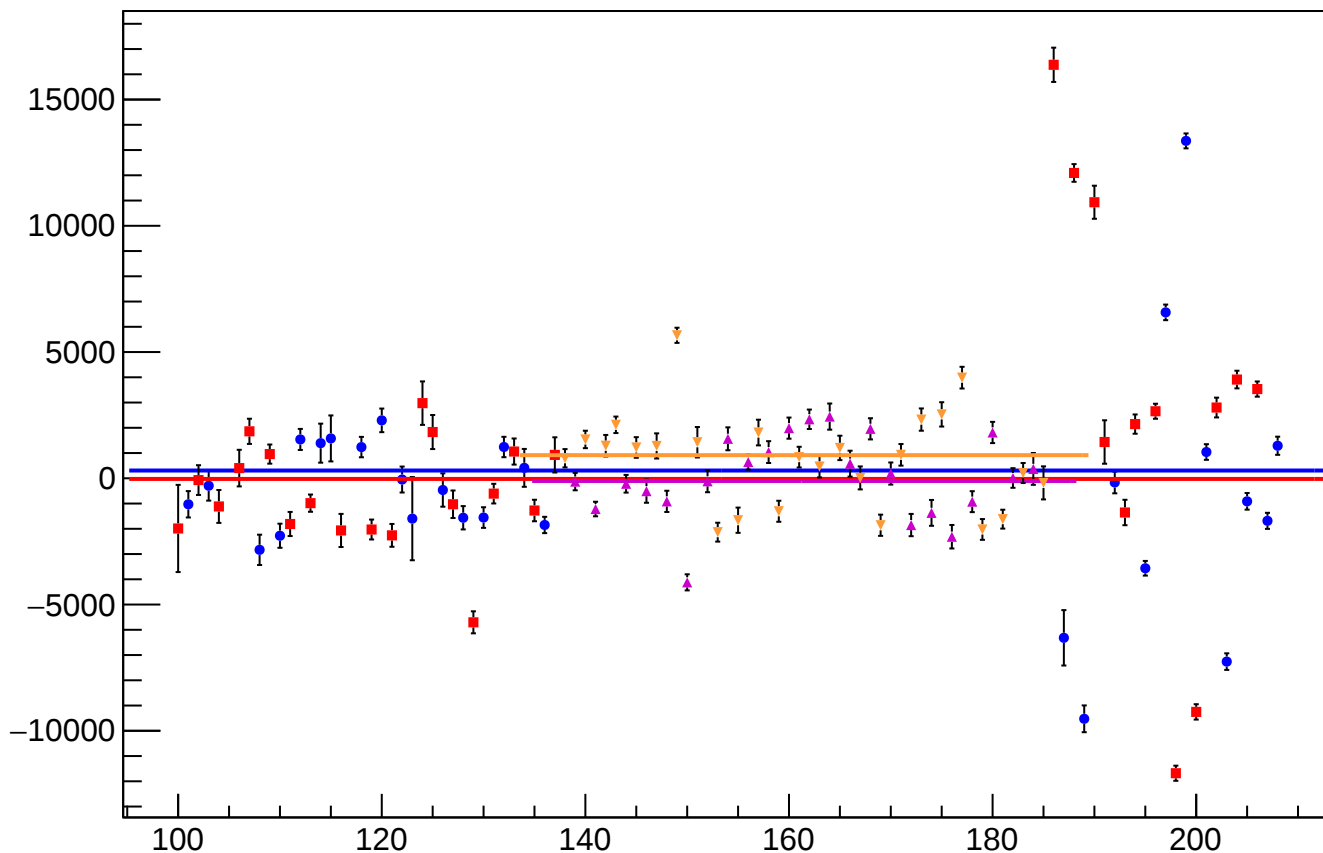
Right: 216.180 ± 0.029 $\chi^2/\text{NDF}: 2973718.7/58$

In: 215.489 ± 0.028 $\chi^2/\text{NDF}: 2177820.3/50$

Out: 222.339 ± 0.028 $\chi^2/\text{NDF}: 2696411.9/55$

All: 218.890 ± 0.020 $\chi^2/\text{NDF}: 4904339.9/106$

asym_bpm0l02WS_mean vs Slug, Sign Corrected



Right In: 307.856+/-79.625 χ^2/NDF : 3705.1/27

Left Out: 915.968+/-83.398 χ^2/NDF : 618.3/24

Right Out: -25.224+/-79.330 χ^2/NDF : 5248.2/30

Left In: -106.116+/-84.393 χ^2/NDF : 390.3/22

Left: 410.985+/-59.320 χ^2/NDF : 1082.8/47

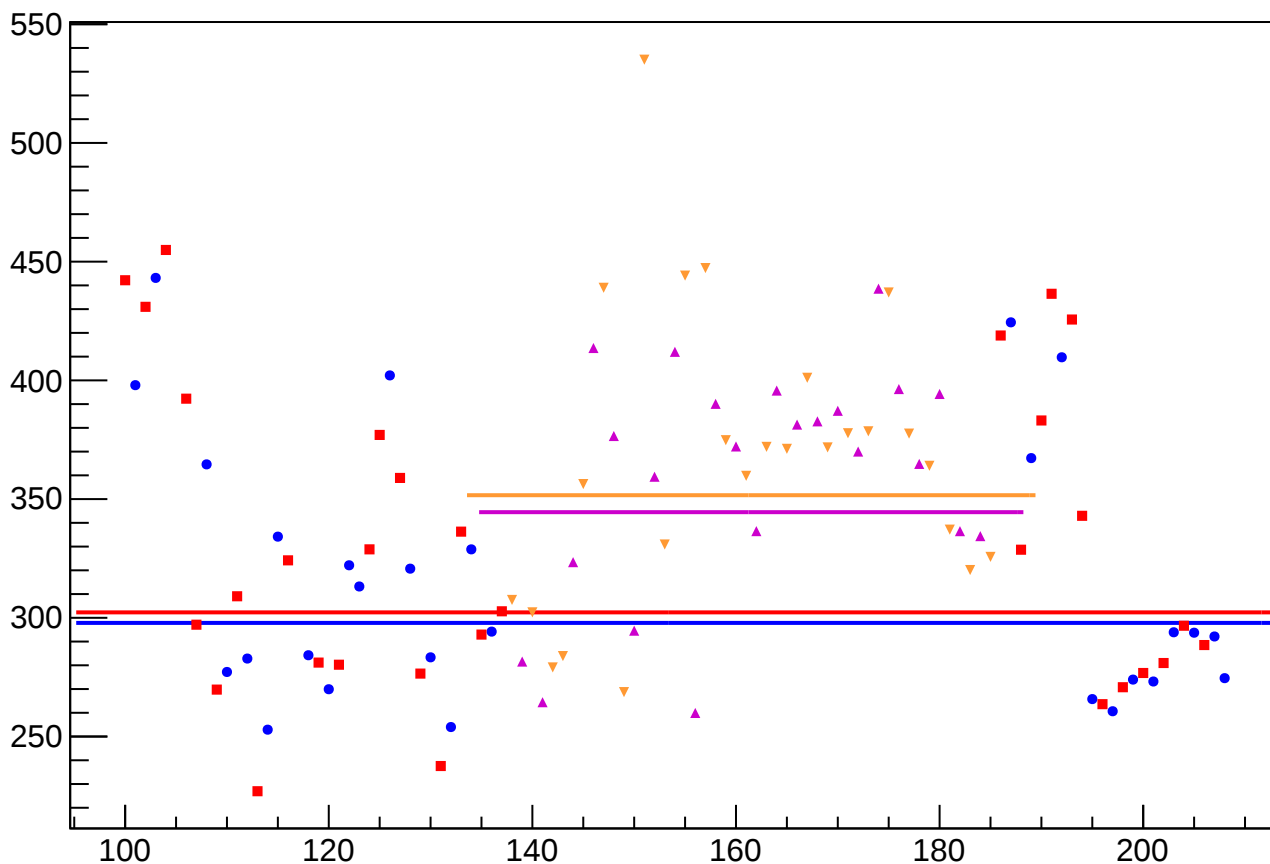
Right: 140.699+/-56.199 χ^2/NDF : 8962.1/58

In: 112.895+/-57.916 χ^2/NDF : 4108.1/50

Out: 421.856+/-57.479 χ^2/NDF : 5933.4/55

All: 268.544+/-40.797 χ^2/NDF : 10055.9/106

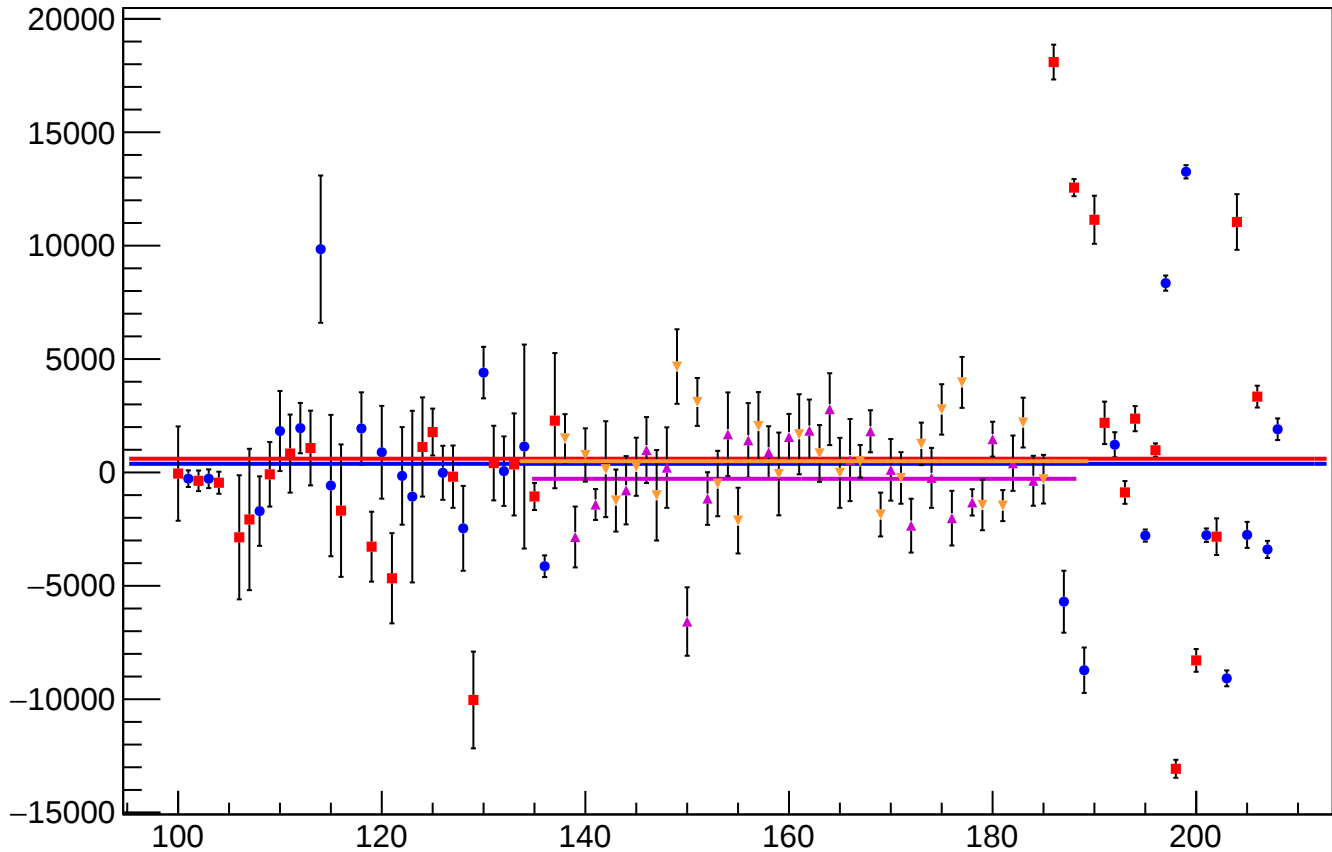
asym_bpm0l02WS_rms vs Slug, Sign Corrected



Right In: 297.857 ± 0.056 $\chi^2/\text{NDF}: 618722.2/27$
 Left Out: 351.633 ± 0.059 $\chi^2/\text{NDF}: 907849.3/24$
 Right Out: 302.289 ± 0.056 $\chi^2/\text{NDF}: 867398.4/30$
 Left In: 344.491 ± 0.060 $\chi^2/\text{NDF}: 768885.4/22$

Left: 348.104 ± 0.042 $\chi^2/\text{NDF}: 1683981.7/47$
 Right: 300.081 ± 0.040 $\chi^2/\text{NDF}: 1489230.5/58$
 In: 319.819 ± 0.041 $\chi^2/\text{NDF}: 1710690.0/50$
 Out: 325.728 ± 0.041 $\chi^2/\text{NDF}: 2142806.0/55$
 All: 322.796 ± 0.029 $\chi^2/\text{NDF}: 3863984.1/106$

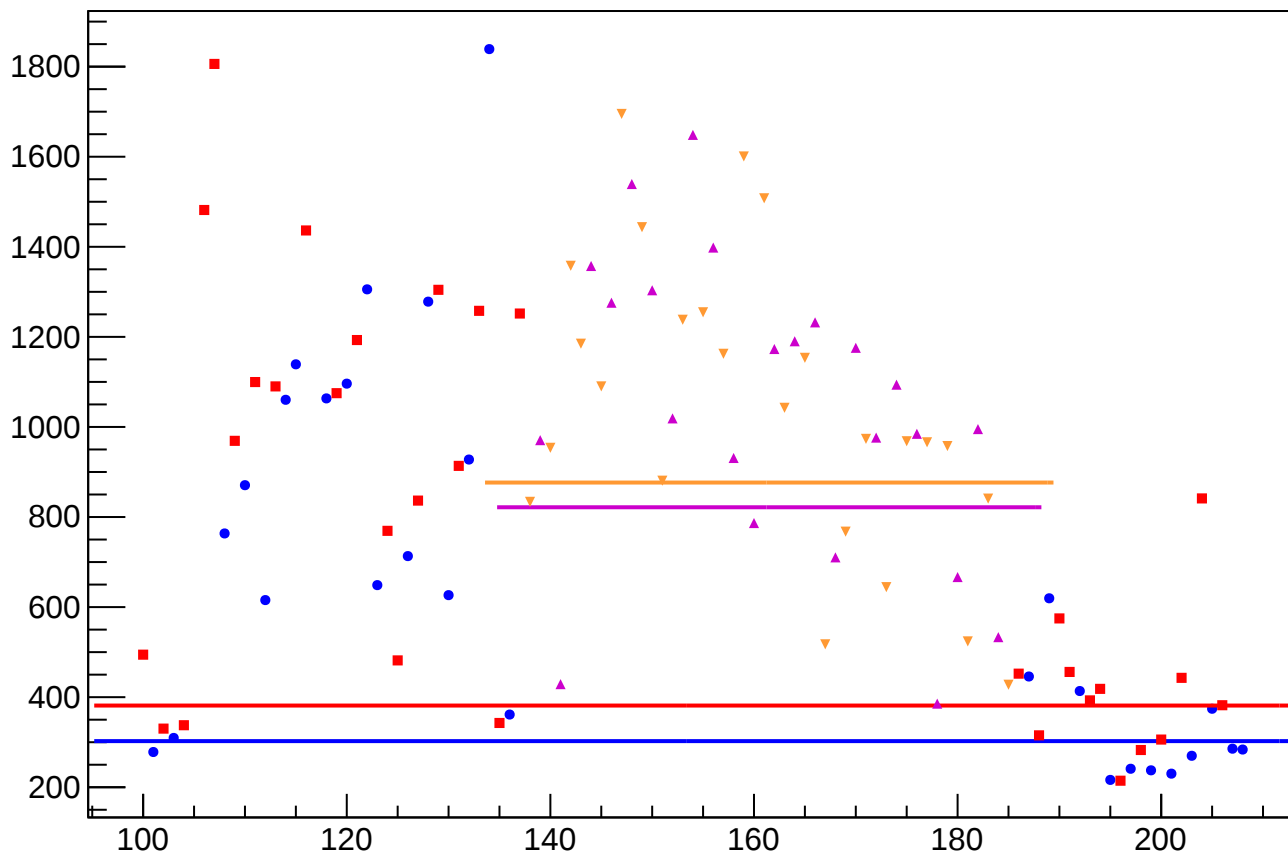
asym_bpm0l03WS_mean vs Slug, Sign Corrected



Right In: 381.162+/-102.253 χ^2/NDF : 3833.6/27
 Left Out: 495.014+/-231.058 χ^2/NDF : 56.2/24
 Right Out: 605.344+/-126.293 χ^2/NDF : 3328.6/30
 Left In: -280.692+/-232.048 χ^2/NDF : 57.2/22

Left: 108.818+/-163.732 χ^2/NDF : 119.1/47
 Right: 469.929+/-79.471 χ^2/NDF : 7164.0/58
 In: 273.543+/-93.571 χ^2/NDF : 3897.6/50
 Out: 579.964+/-110.819 χ^2/NDF : 3385.0/55
 All: 401.077+/-71.494 χ^2/NDF : 7287.0/106

asym_bpm0l03WS_rms vs Slug, Sign Corrected



Right In: 302.434+/-0.072 χ^2/NDF : 4406201.8/27

Left Out: 876.560+/-0.163 χ^2/NDF :3434698.7/24

Right Out: 381.408+/-0.089 χ^2/NDF : 5457549.0/30

Left In: 821.657+/-0.164 χ^2/NDF :4443094.2/22

Left: 849.226+/-0.116 χ^2/NDF : 7934012.4/47

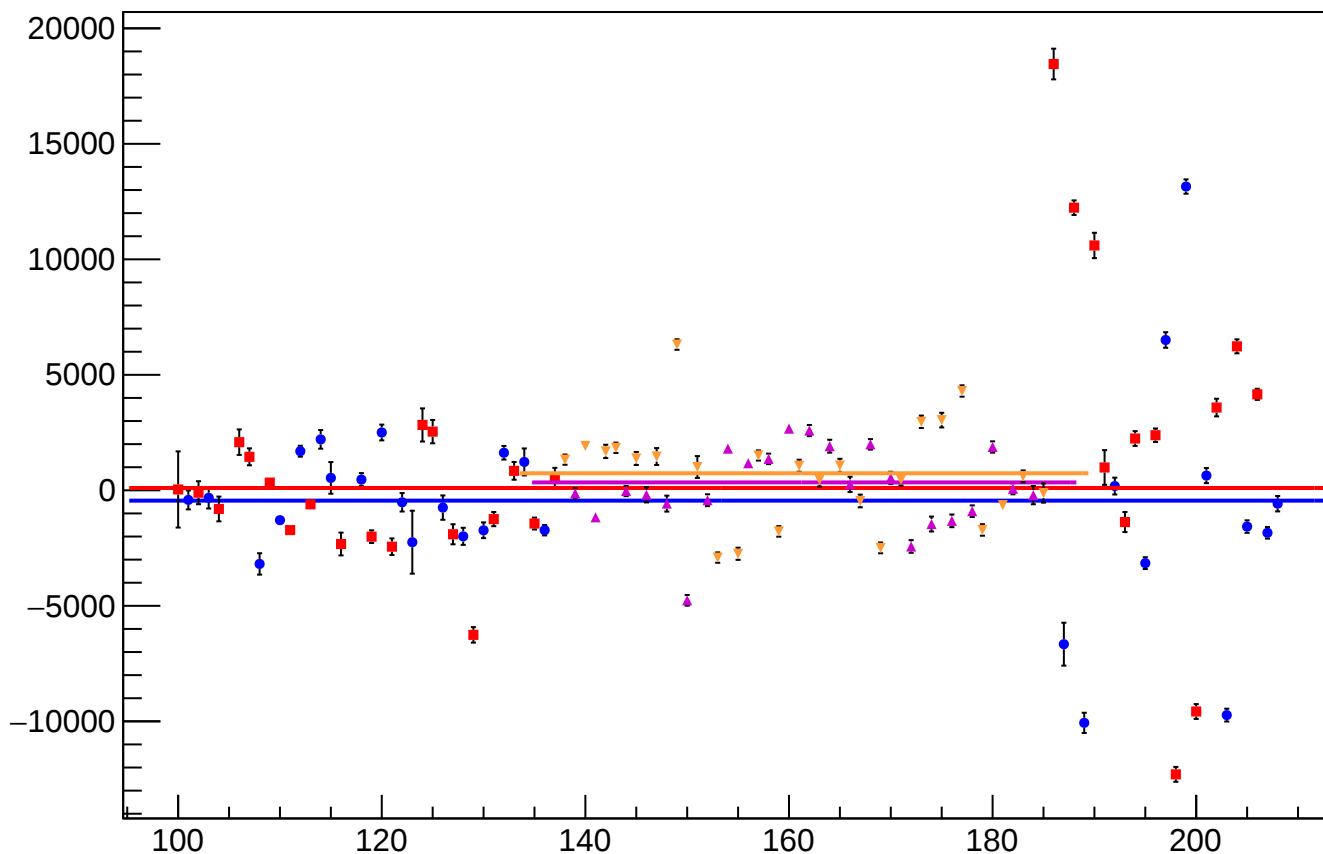
Right: 333.705+/-0.056 χ^2/NDF : 10336135.8/58

In: 386.861+/-0.066 χ^2/NDF :17234541.4/50

Out: 495.309+/-0.078 χ^2/NDF :15964175.4/55

All: 431.998+/-0.051 χ^2/NDF : 34316858.7/10

asym_bpm0l04WS_mean vs Slug, Sign Corrected



Right In: -446.481 ± 62.513 $\chi^2/\text{NDF}: 4545.3/27$

Left Out: 738.847 ± 51.649 $\chi^2/\text{NDF}: 1935.2/24$

Right Out: 101.618 ± 60.226 $\chi^2/\text{NDF}: 6625.2/30$

Left In: 342.465 ± 50.044 $\chi^2/\text{NDF}: 1254.9/22$

Left: 534.403 ± 35.941 $\chi^2/\text{NDF}: 3220.5/47$

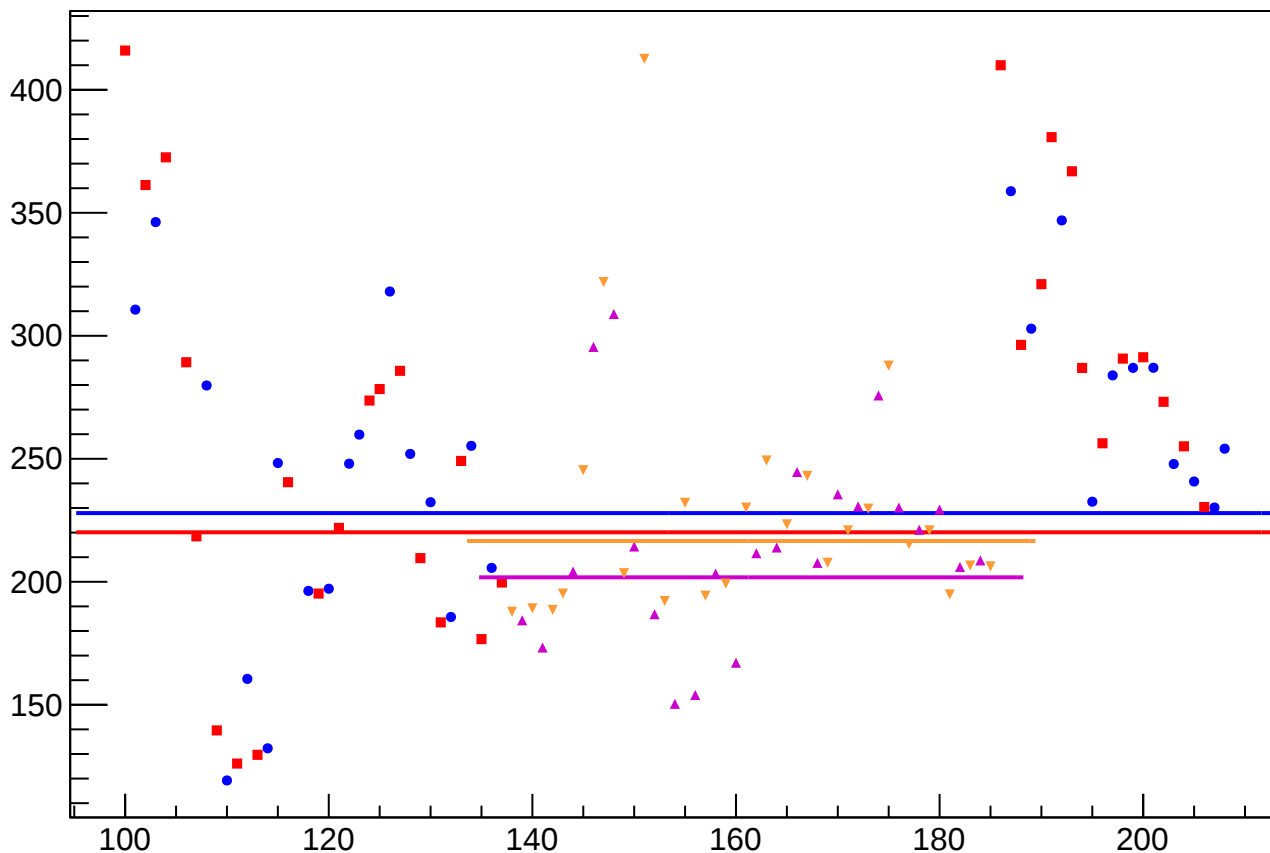
Right: -162.223 ± 43.372 $\chi^2/\text{NDF}: 11210.3/58$

In: 34.327 ± 39.068 $\chi^2/\text{NDF}: 5897.3/50$

Out: 468.800 ± 39.206 $\chi^2/\text{NDF}: 8624.9/55$

All: 250.795 ± 27.674 $\chi^2/\text{NDF}: 14583.7/106$

asym_bpm0l04WS_rms vs Slug, Sign Corrected



Right In: 227.930 ± 0.044 χ^2/NDF : 1787896.9/27

Left Out: 216.574 ± 0.037 χ^2/NDF : 886214.1/24

Right Out: 220.116 ± 0.043 χ^2/NDF : 2836130.2/30

Left In: 201.805 ± 0.035 χ^2/NDF : 1087243.4/22

Left: 208.957 ± 0.025 χ^2/NDF : 2057801.5/47

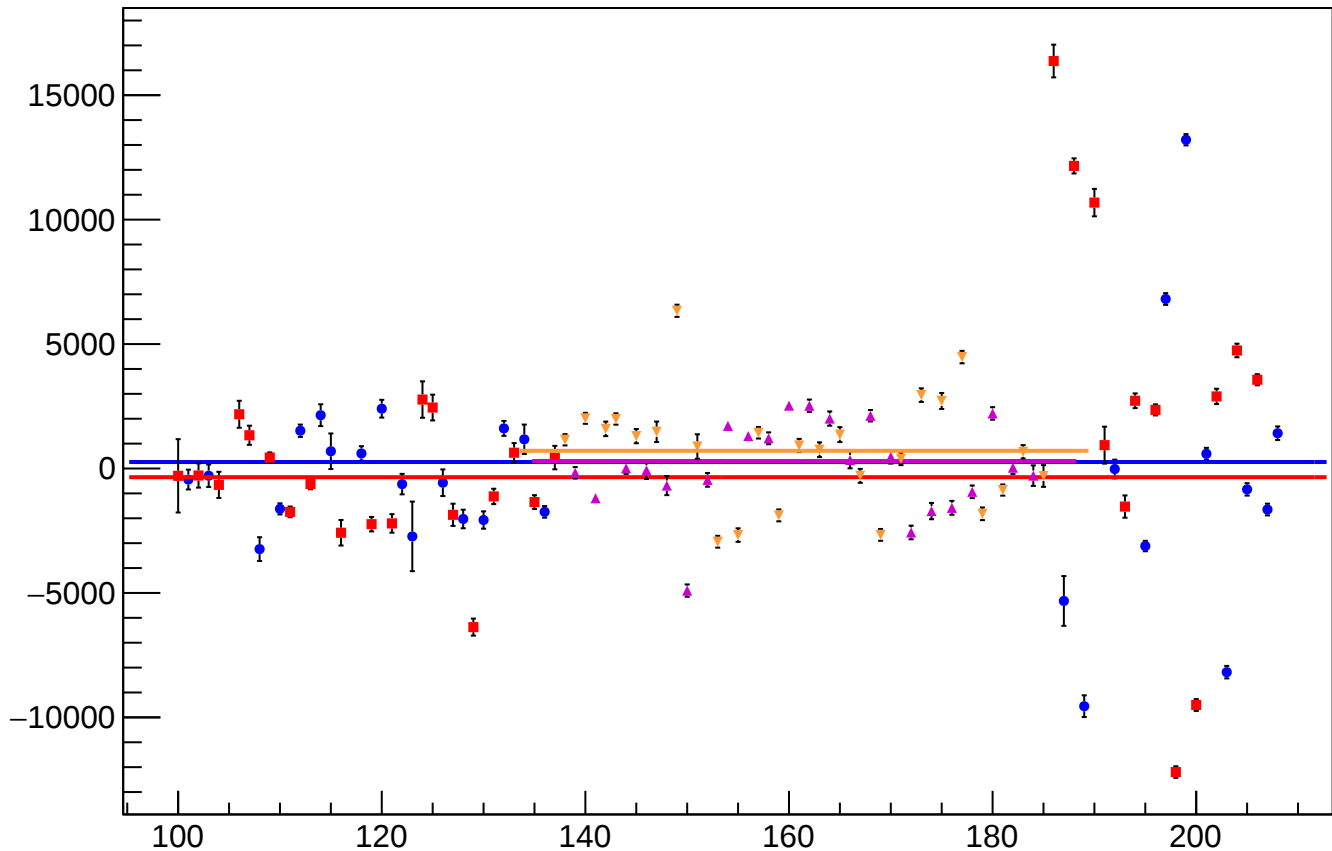
Right: 223.877 ± 0.031 χ^2/NDF : 4640233.8/58

In: 212.009 ± 0.028 χ^2/NDF : 3088007.6/50

Out: 218.075 ± 0.028 χ^2/NDF : 3726329.4/55

All: 215.031 ± 0.020 χ^2/NDF : 6838362.3/106

asym_bpm0l05WS_mean vs Slug, Sign Corrected



Right In: 260.538+/-58.661 χ^2/NDF : 6488.8/27

Left Out: 711.174+/-53.245 χ^2/NDF :1835.3/24

Right Out: -349.075+/-57.924 χ^2/NDF : 8452.5/30

Left In: 300.516+/-51.984 χ^2/NDF :1208.6/22

Left: 500.925+/-37.196 χ^2/NDF : 3074.4/47

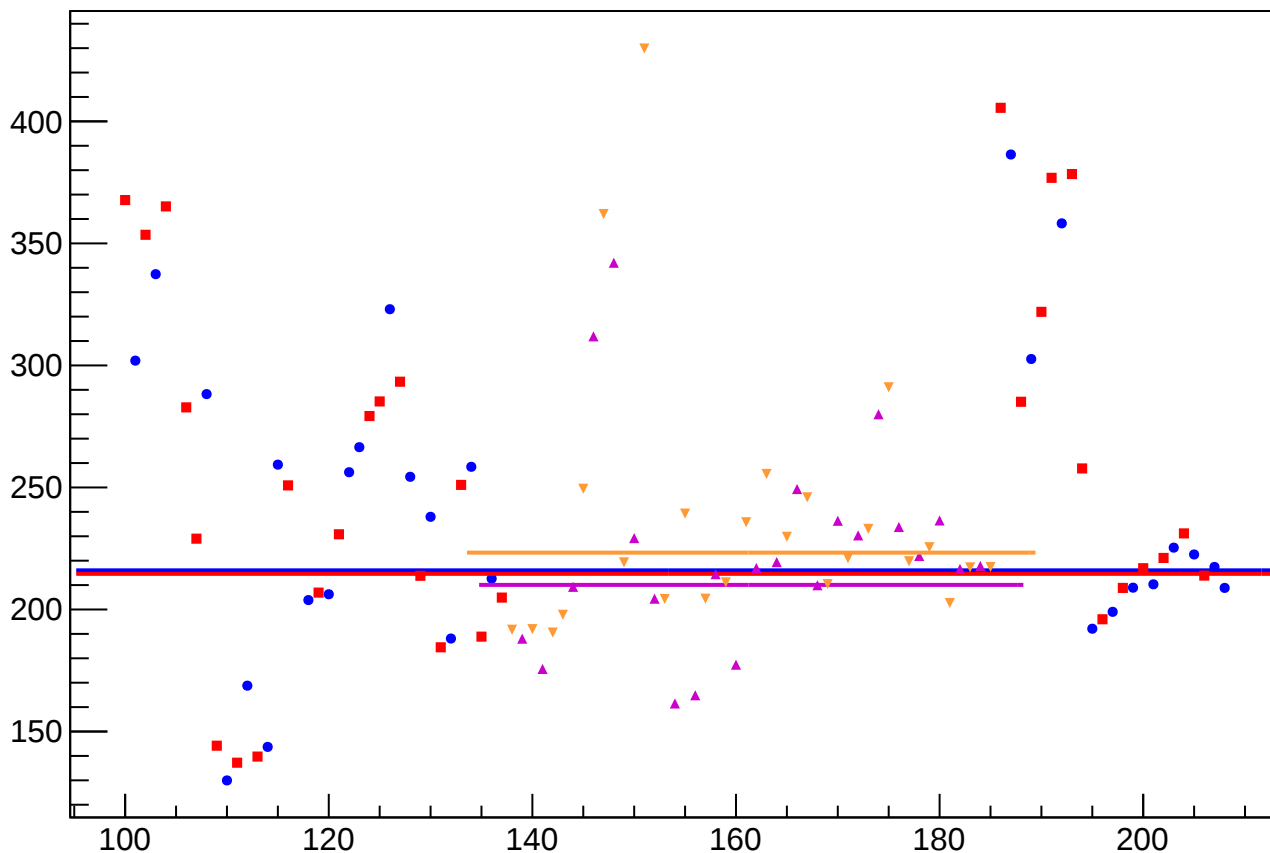
Right: -48.121+/-41.217 χ^2/NDF : 14995.9/58

In: 282.931+/-38.906 χ^2/NDF :7697.6/50

Out: 225.599+/-39.200 χ^2/NDF :10469.4/55

All: 254.481+/-27.614 χ^2/NDF : 18168.1/106

asym_bpm0l05WS_rms vs Slug, Sign Corrected



Right In: 216.039 ± 0.041 $\chi^2/\text{NDF}: 1346894.4/27$

Left Out: 223.296 ± 0.038 $\chi^2/\text{NDF}: 922768.4/24$

Right Out: 214.613 ± 0.041 $\chi^2/\text{NDF}: 2093538.5/30$

Left In: 210.080 ± 0.037 $\chi^2/\text{NDF}: 1015274.5/22$

Left: 216.530 ± 0.026 $\chi^2/\text{NDF}: 2001132.1/47$

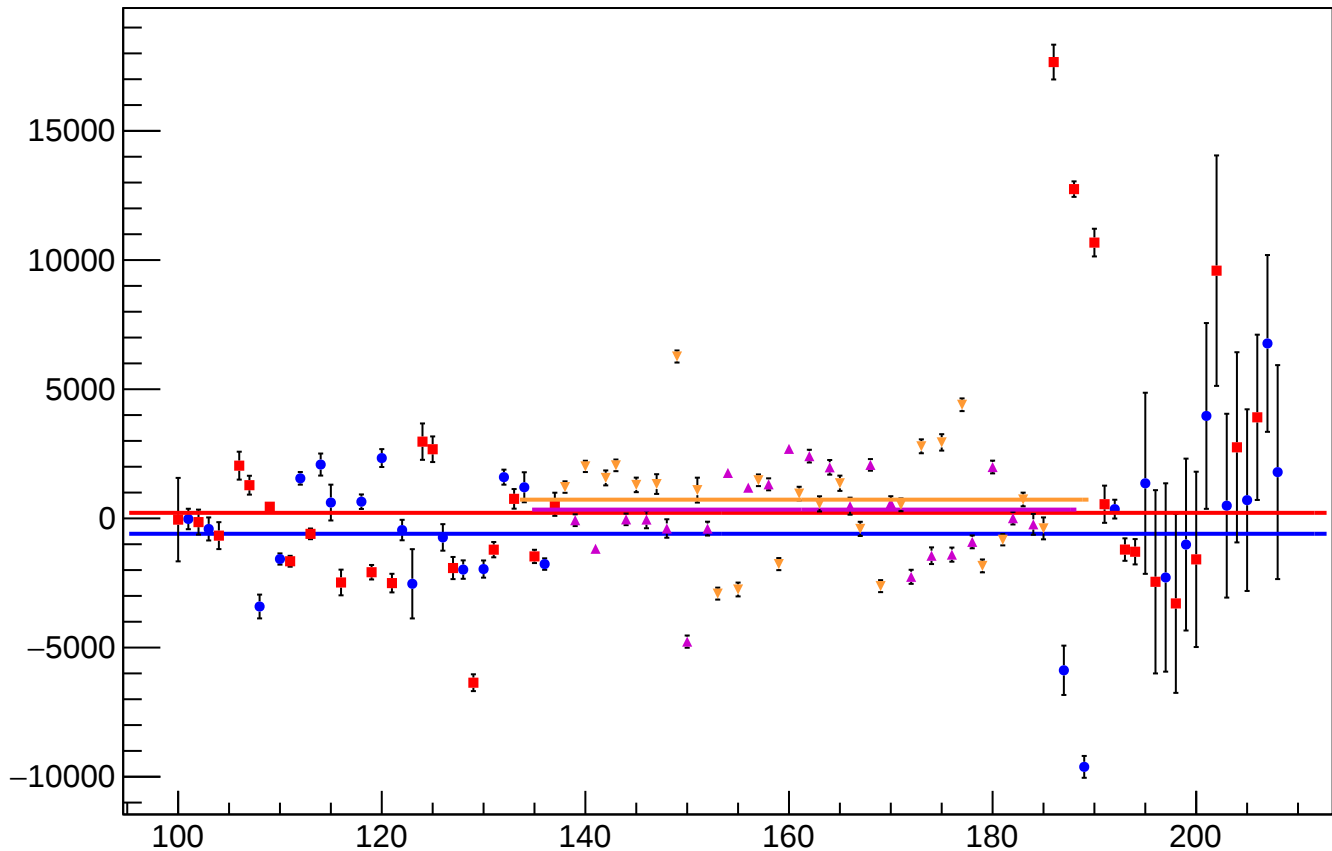
Right: 215.317 ± 0.029 $\chi^2/\text{NDF}: 3441031.6/58$

In: 212.701 ± 0.028 $\chi^2/\text{NDF}: 2373731.2/50$

Out: 219.320 ± 0.028 $\chi^2/\text{NDF}: 3040667.4/55$

All: 215.986 ± 0.020 $\chi^2/\text{NDF}: 5443117.7/106$

asym_bpm0l06WS_mean vs Slug, Sign Corrected



Right In: -595.215 ± 79.044 χ^2/NDF : 898.9/27

Left Out: 725.866 ± 52.158 χ^2/NDF : 1912.7/24

Right Out: 215.241 ± 69.979 χ^2/NDF : 3639.7/30

Left In: 340.502 ± 50.802 χ^2/NDF : 1201.8/22

Left: 528.110 ± 36.393 χ^2/NDF : 3142.6/47

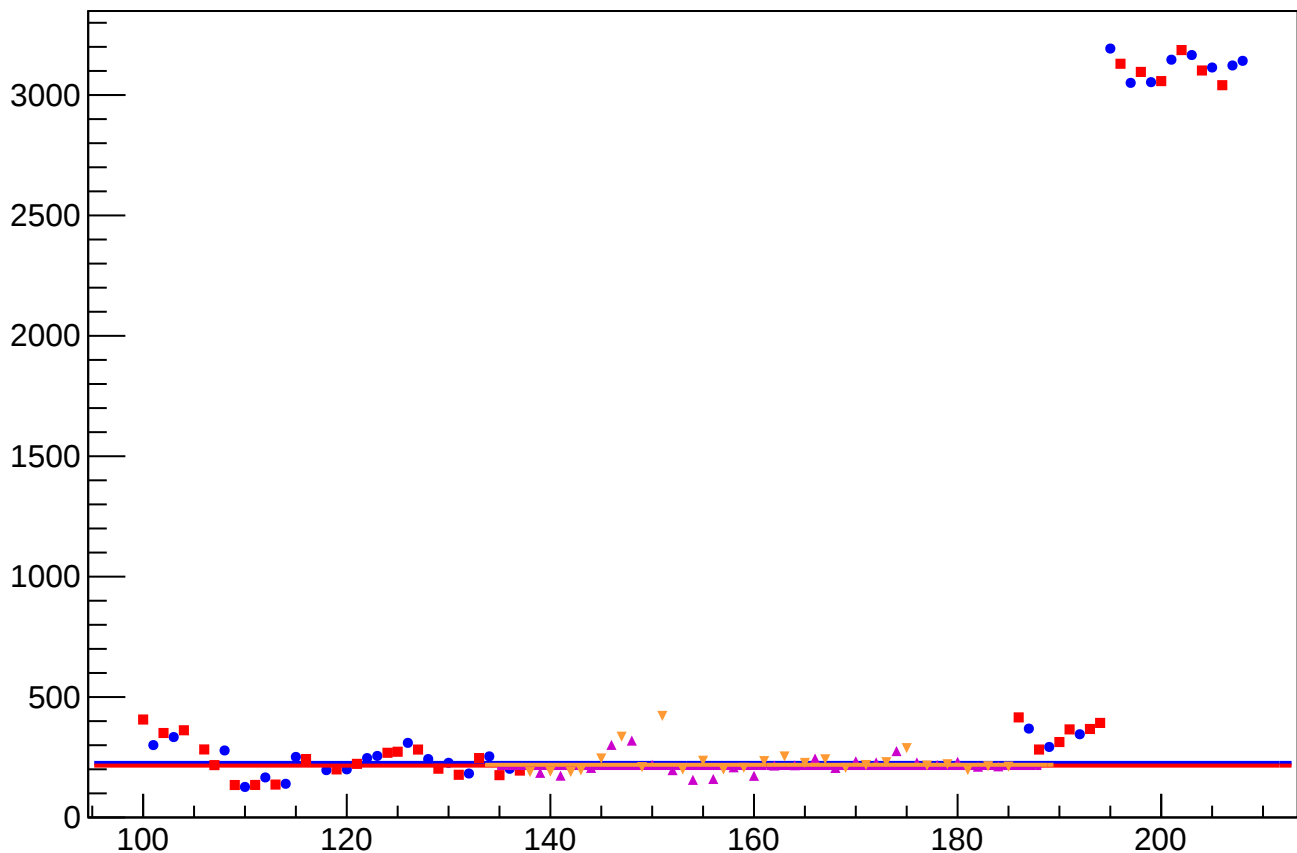
Right: -140.871 ± 52.396 χ^2/NDF : 4597.6/58

In: 66.968 ± 42.737 χ^2/NDF : 2200.0/50

Out: 543.504 ± 41.820 χ^2/NDF : 5586.7/55

All: 310.401 ± 29.890 χ^2/NDF : 7850.2/106

asym_bpm0l06WS_rms vs Slug, Sign Corrected



Right In: 226.566 $\pm$ 0.056 χ^2 /NDF: 11852774.2/27

Left Out: 218.768 $\pm$ 0.037 χ^2 /NDF: 896914.5/24

Right Out: 215.227 $\pm$ 0.049 χ^2 /NDF: 10252915.9/30

Left In: 205.249 $\pm$ 0.036 χ^2 /NDF: 997168.8/22

Left: 211.831 $\pm$ 0.026 χ^2 /NDF: 1963037.5/47

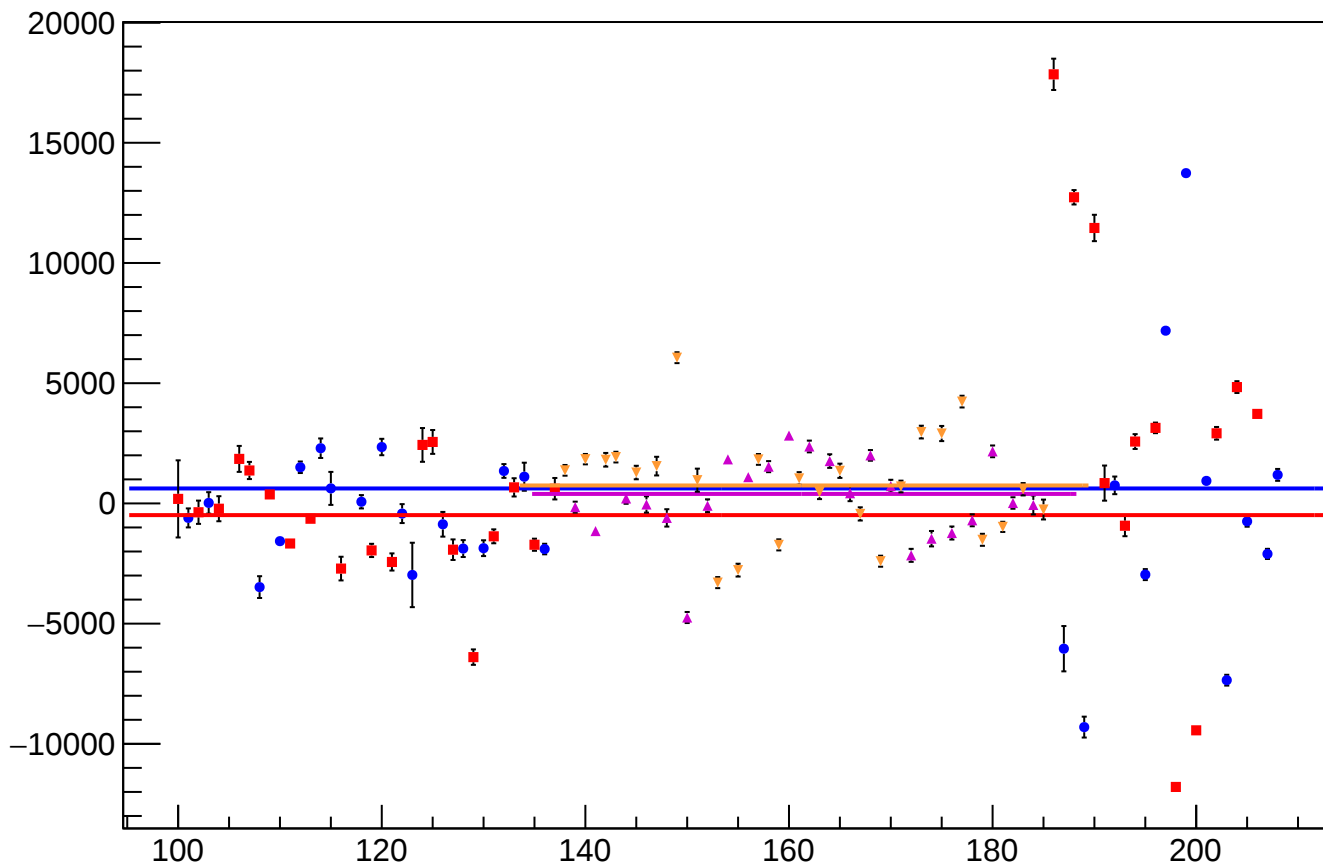
Right: 220.209 $\pm$ 0.037 χ^2 /NDF: 22128763.6/58

In: 211.481 $\pm$ 0.030 χ^2 /NDF: 12952884.5/50

Out: 217.504 $\pm$ 0.030 χ^2 /NDF: 11153123.2/55

All: 214.557 $\pm$ 0.021 χ^2 /NDF: 24126301.3/100

asym_bpm0l07WS_mean vs Slug, Sign Corrected



Right In: 622.048+/-54.615 χ^2/NDF : 8452.9/27

Left Out: 746.405+/-51.592 χ^2/NDF :1942.1/24

Right Out: -486.544+/-54.074 χ^2/NDF : 10302.7/30

Left In: 394.379+/-50.311 χ^2/NDF :1236.4/22

Left: 565.969+/-36.020 χ^2/NDF : 3202.4/47

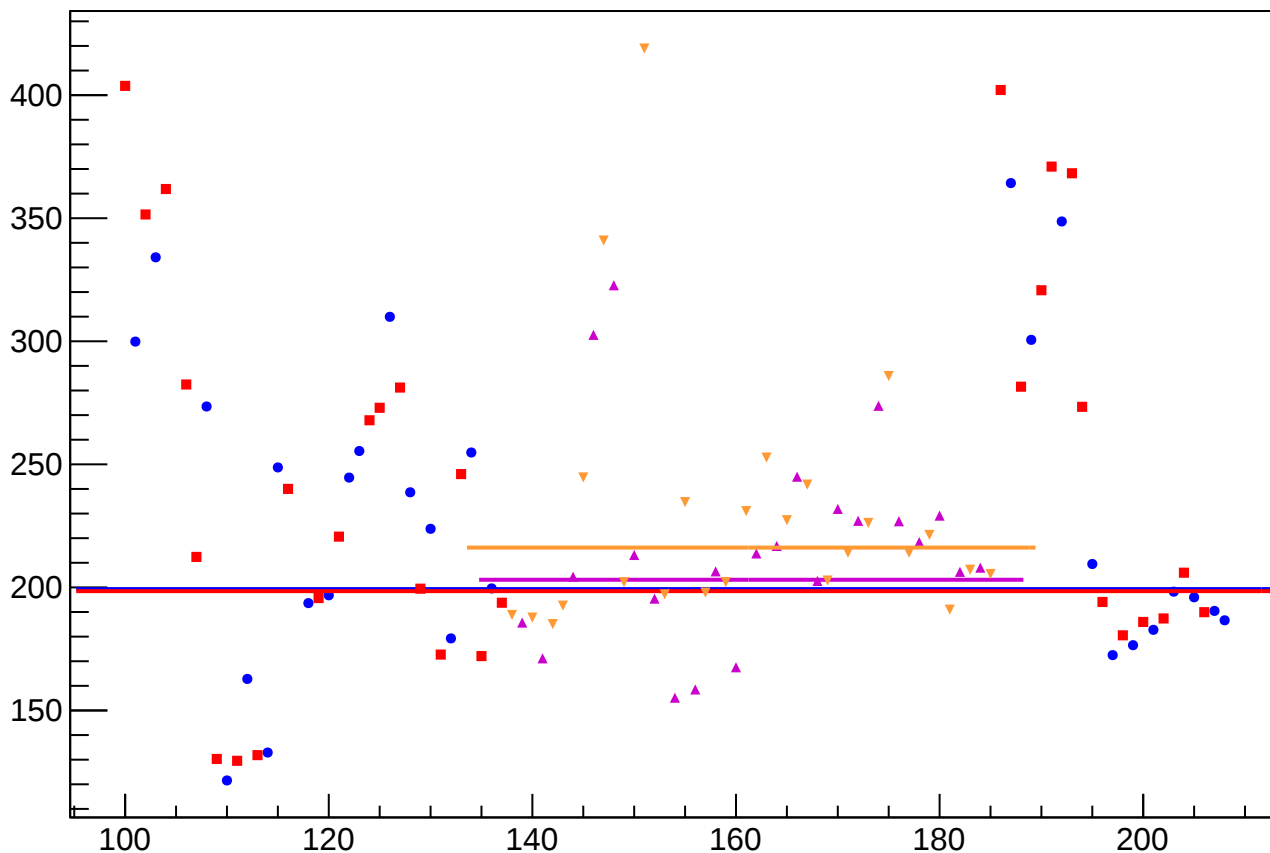
Right: 62.230+/-38.426 χ^2/NDF : 18963.6/58

In: 498.891+/-37.004 χ^2/NDF :9698.7/50

Out: 158.876+/-37.327 χ^2/NDF :12516.9/55

All: 330.365+/-26.279 χ^2/NDF : 22257.5/106

asym_bpm0l07WS_rms vs Slug, Sign Corrected



Right In: 199.310 ± 0.039 $\chi^2/\text{NDF}: 1529523.9/27$

Left Out: 216.178 ± 0.036 $\chi^2/\text{NDF}: 946050.8/24$

Right Out: 198.482 ± 0.038 $\chi^2/\text{NDF}: 2442087.7/30$

Left In: 203.101 ± 0.036 $\chi^2/\text{NDF}: 1038013.0/22$

Left: 209.475 ± 0.025 $\chi^2/\text{NDF}: 2049926.5/47$

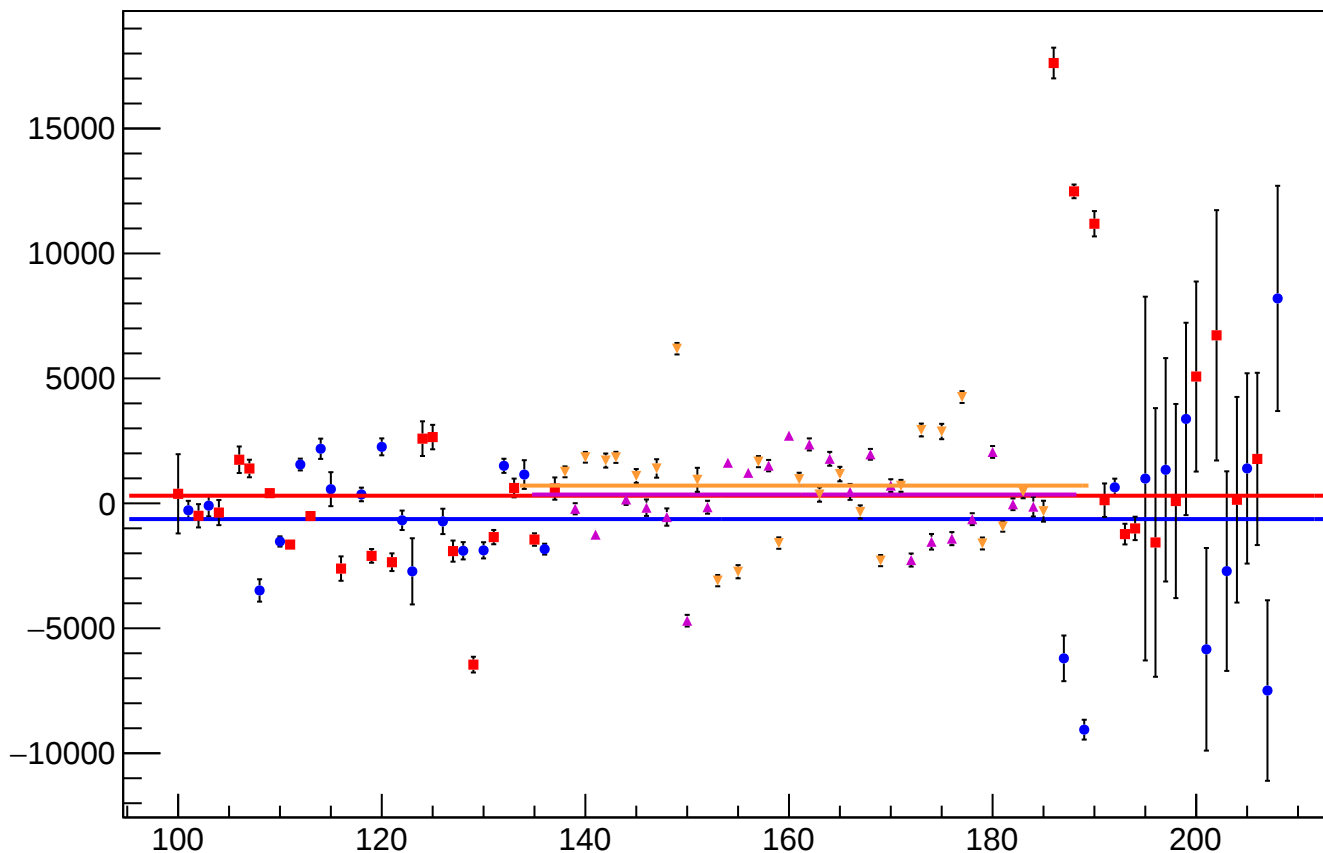
Right: 198.892 ± 0.027 $\chi^2/\text{NDF}: 3971843.9/58$

In: 201.361 ± 0.026 $\chi^2/\text{NDF}: 2572749.6/50$

Out: 207.745 ± 0.026 $\chi^2/\text{NDF}: 3500267.2/55$

All: 204.525 ± 0.019 $\chi^2/\text{NDF}: 6102527.9/106$

asym_bpm0l08WS_mean vs Slug, Sign Corrected



Right In: -629.893 ± 76.418 χ^2/NDF : 925.7/27

Left Out: 710.238 ± 50.750 χ^2/NDF : 1932.3/24

Right Out: 305.564 ± 67.119 χ^2/NDF : 4164.7/30

Left In: 352.432 ± 49.316 χ^2/NDF : 1233.1/22

Left: 526.207 ± 35.368 χ^2/NDF : 3190.9/47

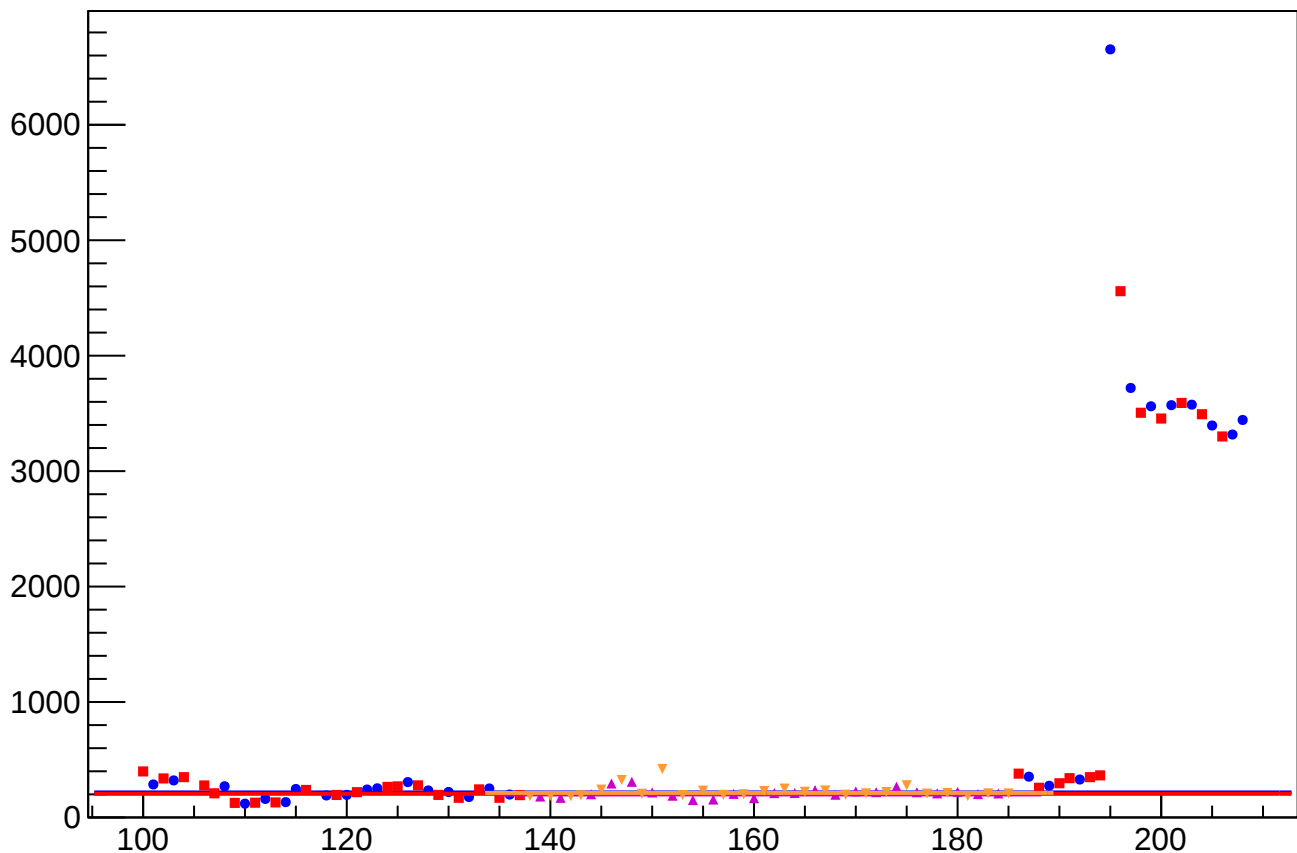
Right: -101.816 ± 50.429 χ^2/NDF : 5175.0/58

In: 63.609 ± 41.437 χ^2/NDF : 2275.4/50

Out: 563.035 ± 40.481 χ^2/NDF : 6120.1/55

All: 319.147 ± 28.956 χ^2/NDF : 8469.8/106

asym_bpm0l08WS_rms vs Slug, Sign Corrected



Right In: 216.684 $\pm$ 0.054 χ^2 /NDF: 12304223.9/27

Left Out: 212.718 $\pm$ 0.036 χ^2 /NDF: 916225.9/24

Right Out: 204.826 $\pm$ 0.047 χ^2 /NDF: 10443415.7/30

Left In: 199.142 $\pm$ 0.035 χ^2 /NDF: 985932.4/22

Left: 205.736 $\pm$ 0.025 χ^2 /NDF: 1975772.3/47

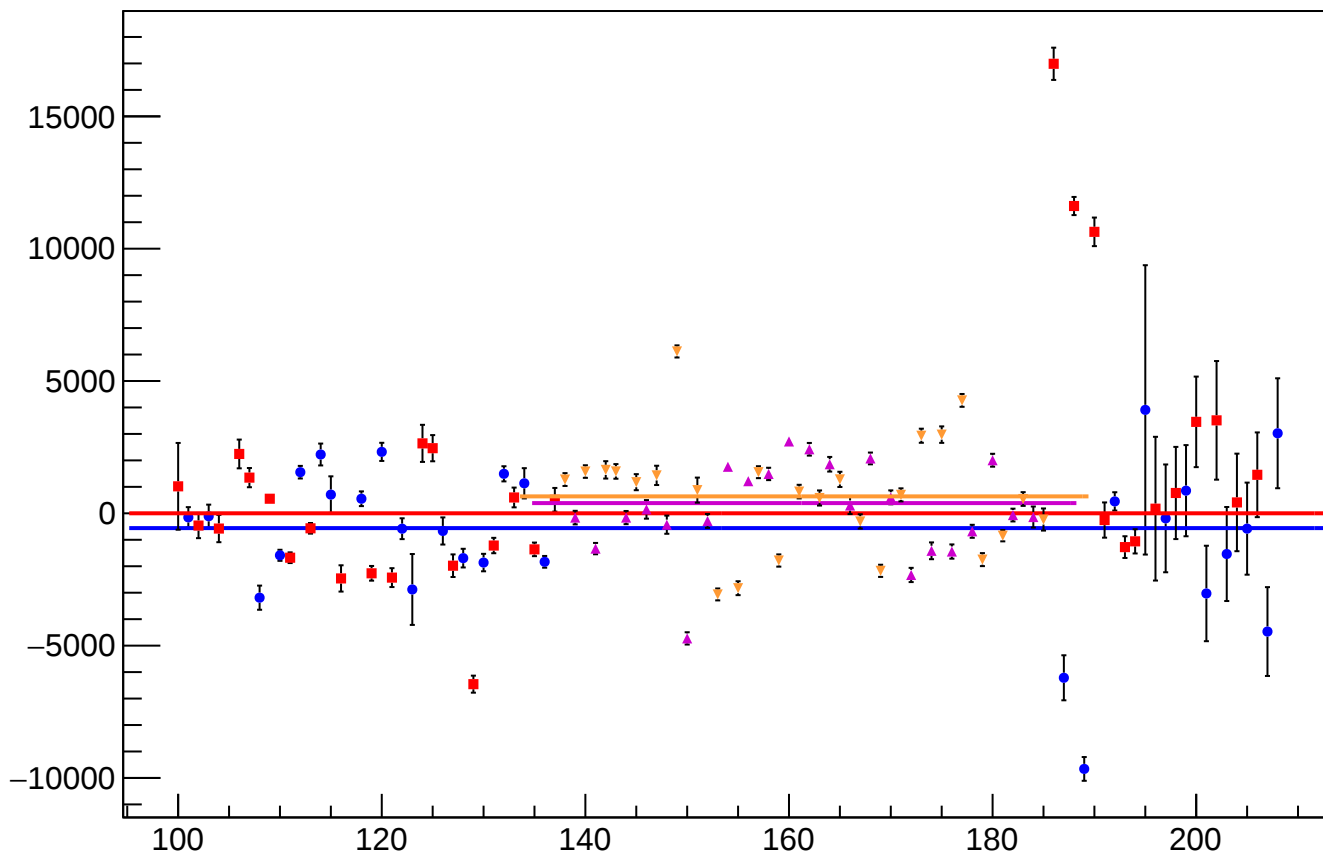
Right: 209.990 $\pm$ 0.036 χ^2 /NDF: 22774827.9/58

In: 204.300 $\pm$ 0.029 χ^2 /NDF: 13364560.5/50

Out: 209.847 $\pm$ 0.029 χ^2 /NDF: 11377238.2/55

All: 207.138 $\pm$ 0.020 χ^2 /NDF: 24760140.7/10

asym_bpm0l09WS_mean vs Slug, Sign Corrected



Right In: -558.936 ± 77.371 $\chi^2/\text{NDF}: 870.9/27$

Left Out: 639.995 ± 52.708 $\chi^2/\text{NDF}: 1859.2/24$

Right Out: 0.897 ± 68.830 $\chi^2/\text{NDF}: 3103.6/30$

Left In: 386.248 ± 50.994 $\chi^2/\text{NDF}: 1238.0/22$

Left: 508.926 ± 36.649 $\chi^2/\text{NDF}: 3109.2/47$

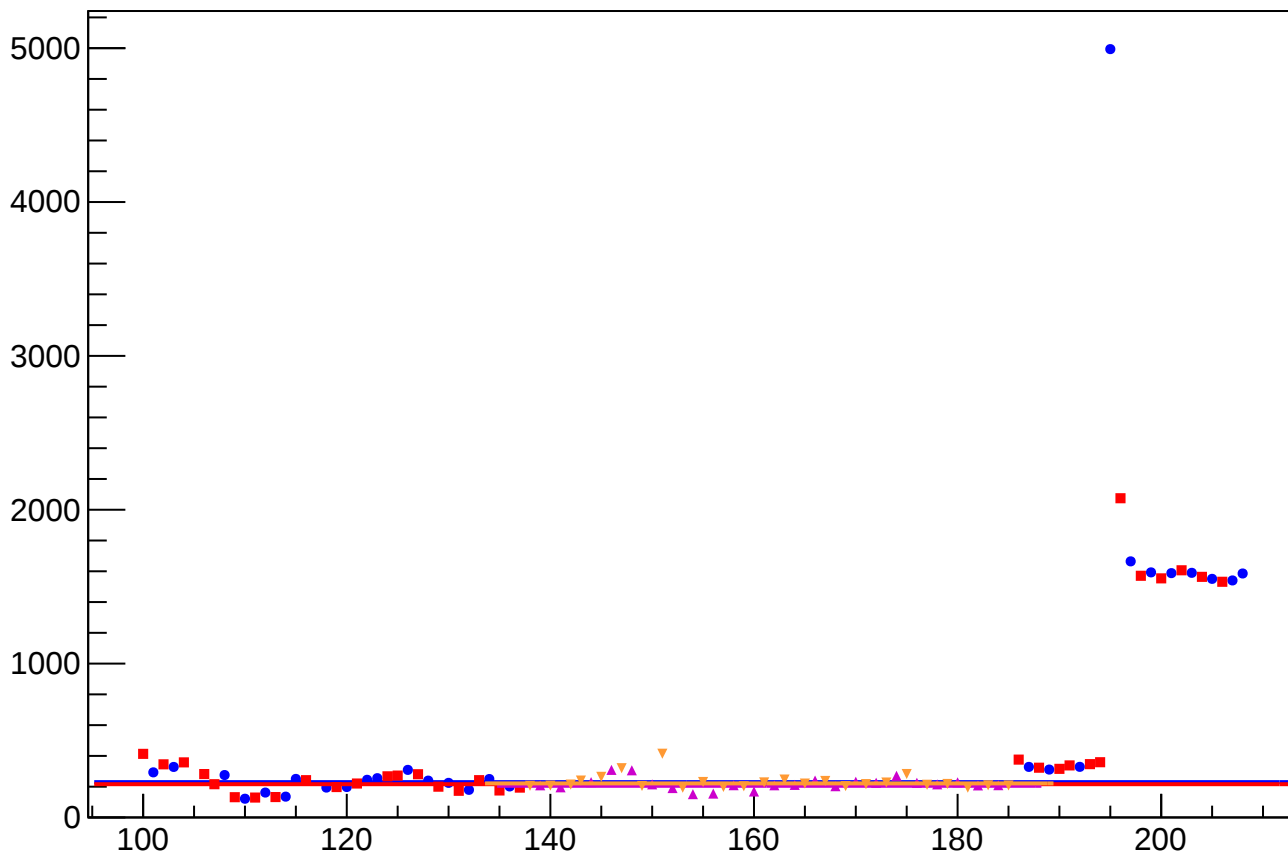
Right: -246.426 ± 51.426 $\chi^2/\text{NDF}: 4003.7/58$

In: 100.009 ± 42.578 $\chi^2/\text{NDF}: 2213.0/50$

Out: 403.754 ± 41.848 $\chi^2/\text{NDF}: 5017.1/55$

All: 254.508 ± 29.846 $\chi^2/\text{NDF}: 7256.0/106$

asym_bpm0l09WS_rms vs Slug, Sign Corrected



Right In: 229.559+/-0.055 χ^2/NDF : 10729817.6/27

Left Out: 221.398+/-0.037 χ^2/NDF : 777833.8/24

Right Out: 216.184+/-0.049 χ^2/NDF : 9103255.4/30

Left In: 205.803+/-0.036 χ^2/NDF : 994903.5/22

Left: 213.343+/-0.026 χ^2/NDF : 1863169.5/47

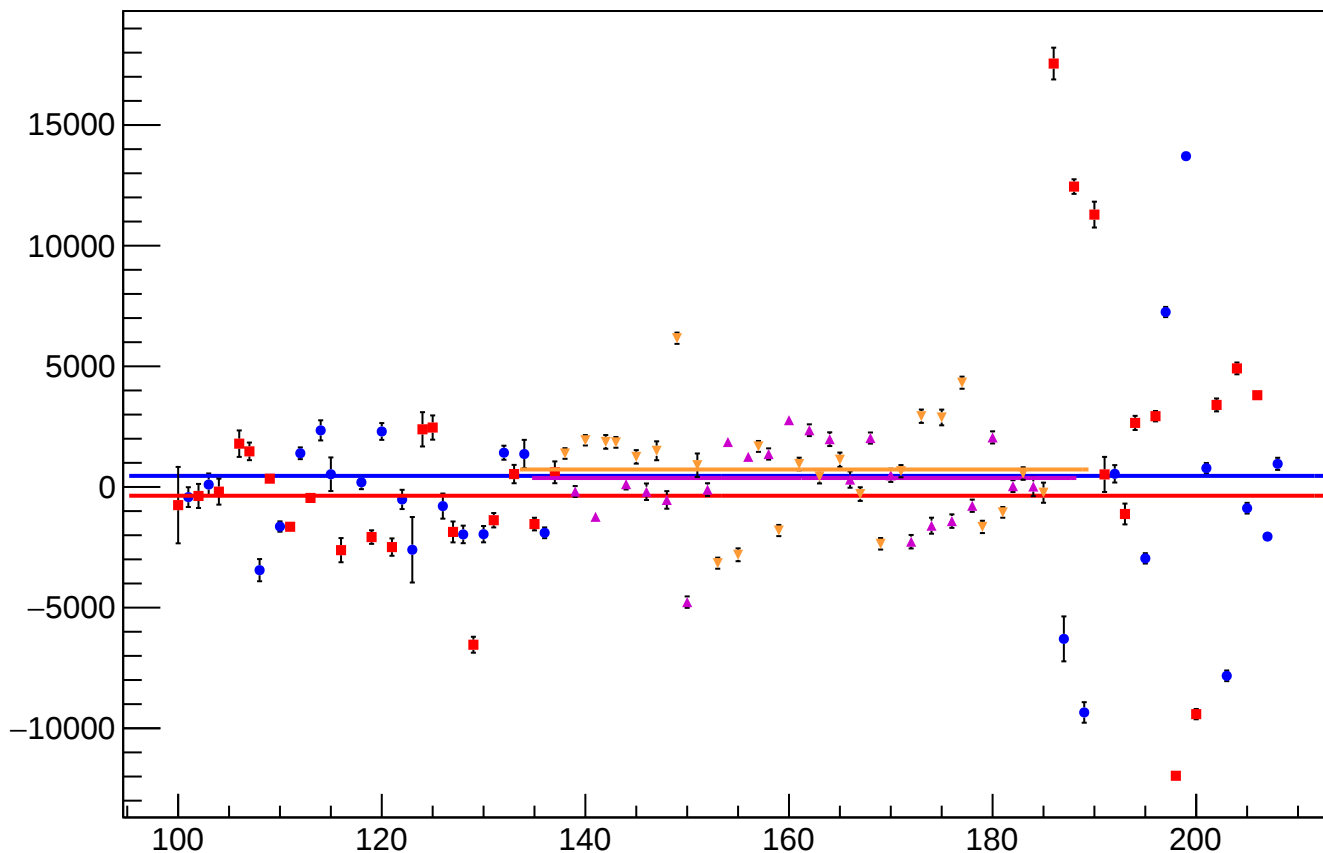
Right: 222.093+/-0.036 χ^2/NDF : 19866438.4/58

In: 212.998+/-0.030 χ^2/NDF : 11856171.3/50

Out: 219.471+/-0.030 χ^2/NDF : 9888323.7/55

All: 216.290+/-0.021 χ^2/NDF : 21768007.9/10

asym_bpm0l10WS_mean vs Slug, Sign Corrected



Right In: 459.718+/-55.119 χ^2/NDF : 8441.0/27

Left Out: 725.250+/-52.307 χ^2/NDF : 1883.1/24

Right Out: -362.798+/-54.880 χ^2/NDF : 9977.2/30

Left In: 370.408+/-50.884 χ^2/NDF : 1223.2/22

Left: 542.938+/-36.473 χ^2/NDF : 3129.9/47

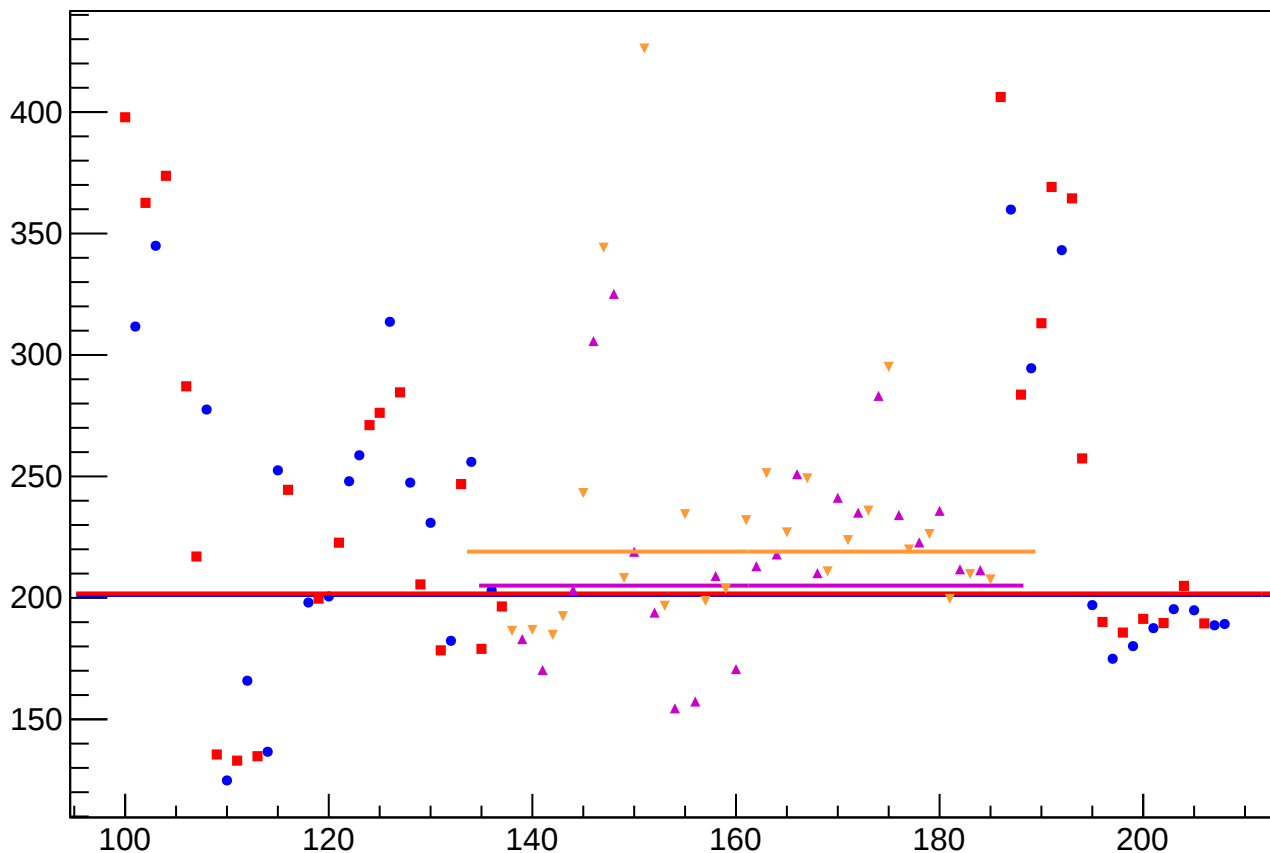
Right: 46.674+/-38.891 χ^2/NDF : 18530.1/58

In: 411.501+/-37.388 χ^2/NDF : 9665.6/50

Out: 207.333+/-37.864 χ^2/NDF : 12066.3/55

All: 310.707+/-26.604 χ^2/NDF : 21746.6/106

asym_bpm0l10WS_rms vs Slug, Sign Corrected



Right In: 201.208 $\pm$ 0.039 χ^2 /NDF: 1488308.7/27

Left Out: 219.049 $\pm$ 0.037 χ^2 /NDF:975564.4/24

Right Out: 201.818 $\pm$ 0.039 χ^2 /NDF: 2295240.5/30

Left In: 205.046 $\pm$ 0.036 χ^2 /NDF:1144197.1/22

Left: 211.855 $\pm$ 0.026 χ^2 /NDF: 2193394.9/47

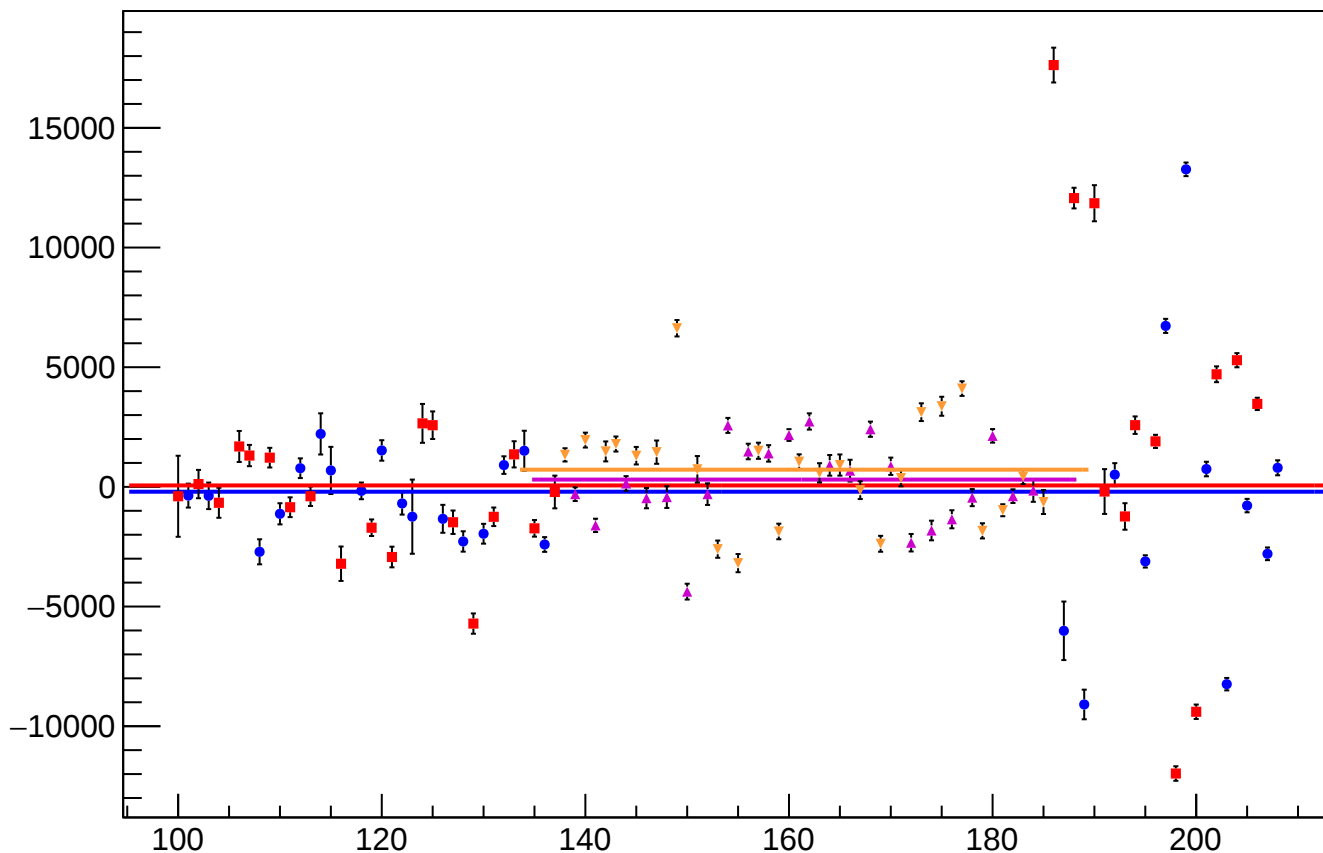
Right: 201.514 $\pm$ 0.027 χ^2 /NDF: 3783672.2/58

In: 203.280 $\pm$ 0.026 χ^2 /NDF:2637741.7/50

Out: 210.847 $\pm$ 0.027 χ^2 /NDF:3374109.0/55

All: 207.016 $\pm$ 0.019 χ^2 /NDF: 6052286.9/106

asym_bpm0r03WS_mean vs Slug, Sign Corrected



Right In: -202.599 ± 73.324 $\chi^2/\text{NDF}: 4399.8/27$

Left Out: 718.705 ± 69.601 $\chi^2/\text{NDF}: 1018.5/24$

Right Out: 60.343 ± 76.052 $\chi^2/\text{NDF}: 5322.4/30$

Left In: 304.161 ± 70.958 $\chi^2/\text{NDF}: 643.5/22$

Left: 515.435 ± 49.688 $\chi^2/\text{NDF}: 1679.4/47$

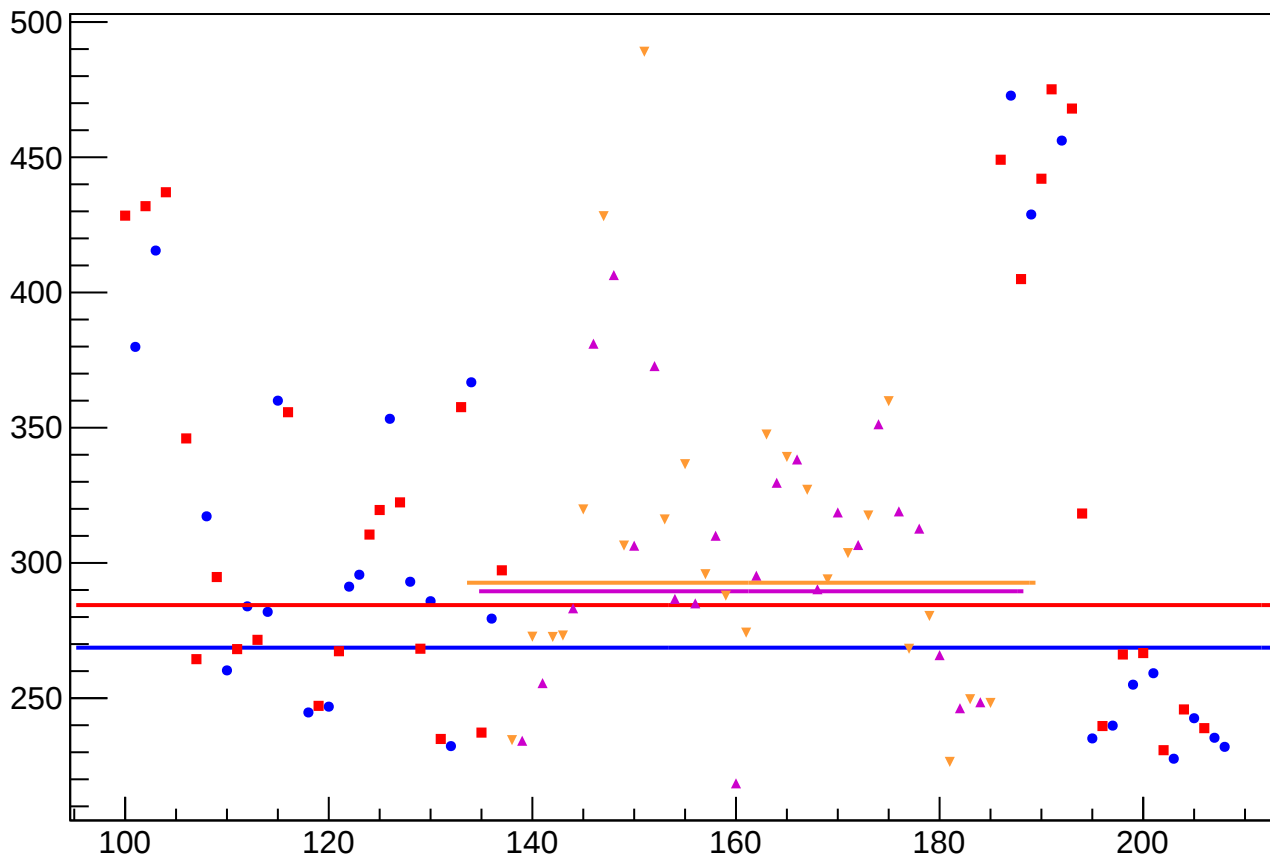
Right: -75.929 ± 52.786 $\chi^2/\text{NDF}: 9728.4/58$

In: 59.089 ± 50.991 $\chi^2/\text{NDF}: 5067.9/50$

Out: 418.628 ± 51.345 $\chi^2/\text{NDF}: 6381.7/55$

All: 237.615 ± 36.180 $\chi^2/\text{NDF}: 11474.3/106$

asym_bpm0r03WS_rms vs Slug, Sign Corrected



Right In: 268.672 $\pm$ 0.052 χ^2/NDF : 1080317.0/27

Left Out: 292.686 $\pm$ 0.049 χ^2/NDF : 925193.6/24

Right Out: 284.415 $\pm$ 0.054 χ^2/NDF : 1344321.8/30

Left In: 289.522 $\pm$ 0.050 χ^2/NDF : 777901.0/22

Left: 291.134 $\pm$ 0.035 χ^2/NDF : 1705121.5/47

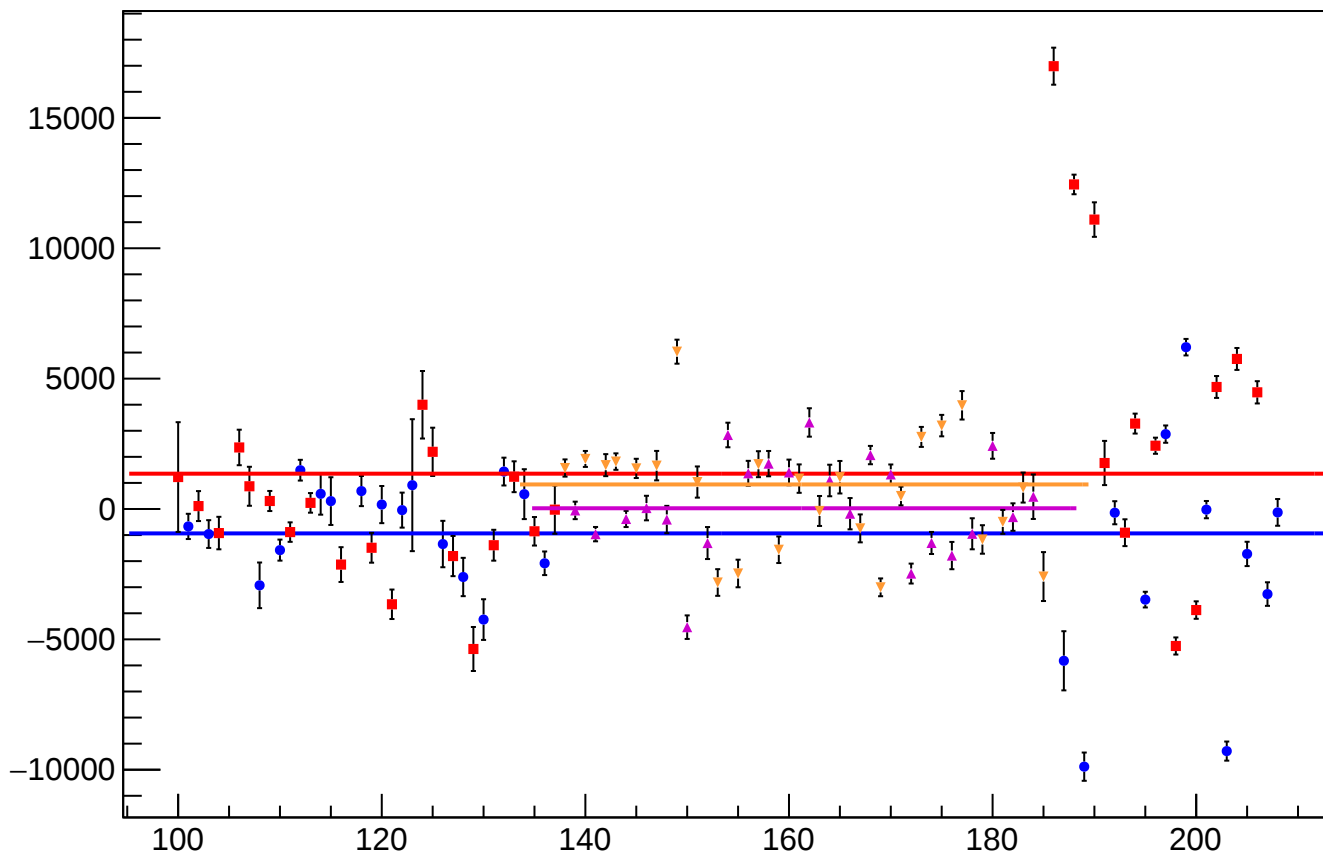
Right: 276.256 $\pm$ 0.037 χ^2/NDF : 2469058.2/58

In: 279.438 $\pm$ 0.036 χ^2/NDF : 1941727.6/50

Out: 288.916 $\pm$ 0.036 χ^2/NDF : 2282387.0/55

All: 284.145 $\pm$ 0.026 χ^2/NDF : 4258424.4/106

asym_bpm0r05WS_mean vs Slug, Sign Corrected



Right In: -936.125 $\pm$ 93.175 χ^2/NDF : 1680.3/27

Left Out: 941.598 $\pm$ 89.119 χ^2/NDF : 544.6/24

Right Out: 1354.282 $\pm$ 90.137 χ^2/NDF : 2833.7/30

Left In: 27.763 $\pm$ 92.331 χ^2/NDF : 362.5/22

Left: 500.853 $\pm$ 64.122 χ^2/NDF : 957.8/47

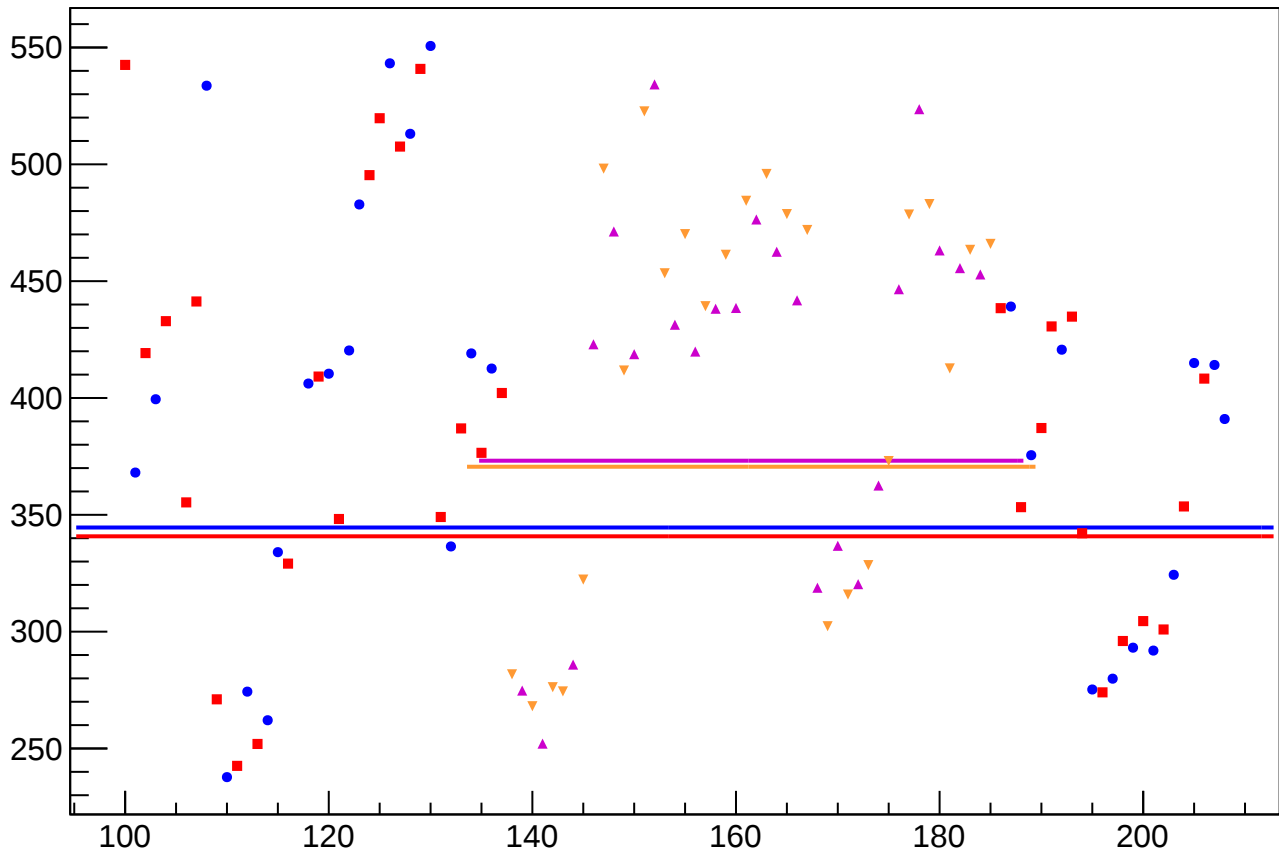
Right: 247.027 $\pm$ 64.784 χ^2/NDF : 4826.2/58

In: -449.796 $\pm$ 65.584 χ^2/NDF : 2096.9/50

Out: 1145.597 $\pm$ 63.374 χ^2/NDF : 3388.9/55

All: 375.243 $\pm$ 45.573 χ^2/NDF : 5791.7/106

asym_bpm0r05WS_rms vs Slug, Sign Corrected



Right In: 344.575 ± 0.066 $\chi^2/\text{NDF}: 1297712.5/27$

Left Out: 370.580 ± 0.063 $\chi^2/\text{NDF}: 1878118.9/24$

Right Out: 340.803 ± 0.064 $\chi^2/\text{NDF}: 1183650.4/30$

Left In: 373.161 ± 0.065 $\chi^2/\text{NDF}: 1636244.2/22$

Left: 371.824 ± 0.045 $\chi^2/\text{NDF}: 3515172.3/47$

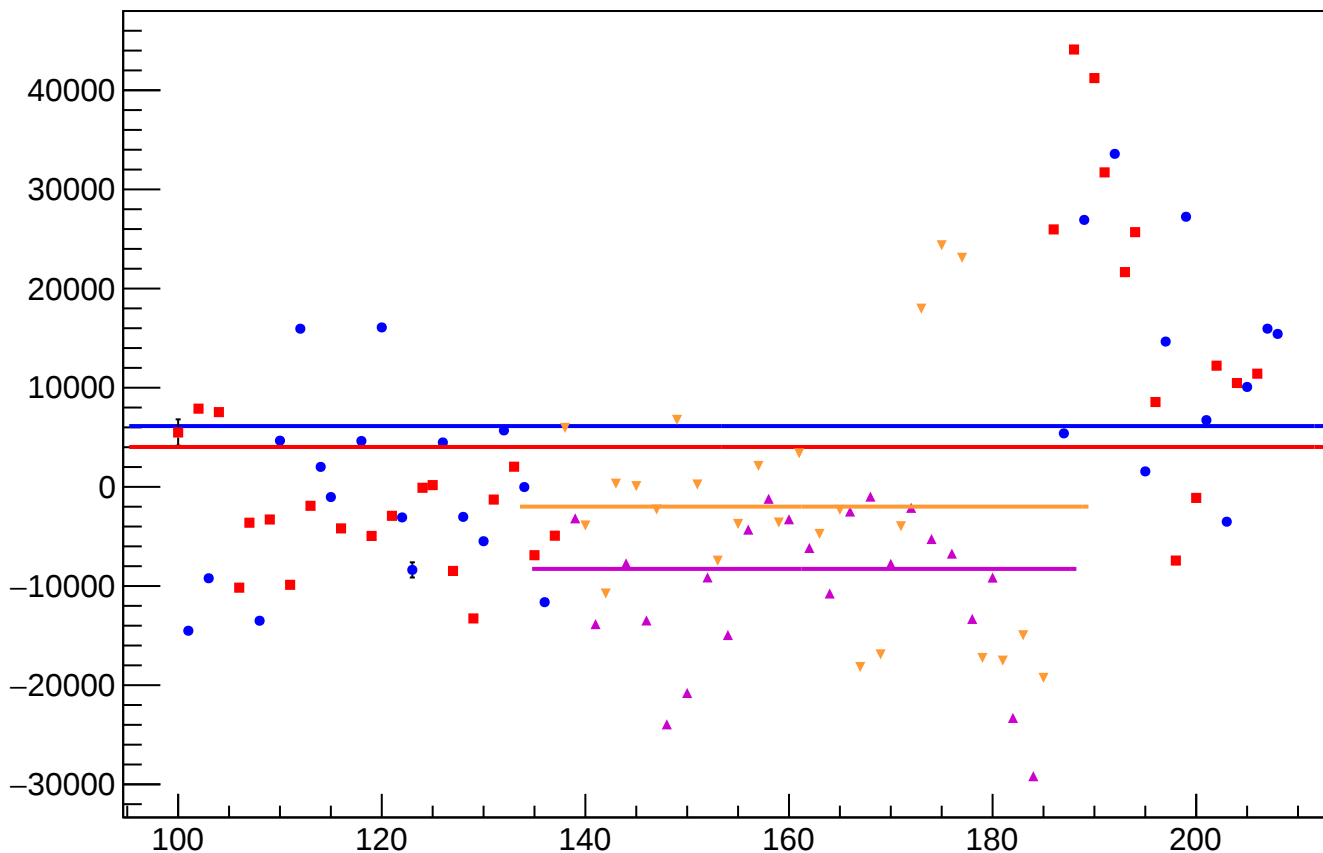
Right: 342.627 ± 0.046 $\chi^2/\text{NDF}: 2483056.0/58$

In: 358.998 ± 0.046 $\chi^2/\text{NDF}: 3028935.9/50$

Out: 355.861 ± 0.045 $\chi^2/\text{NDF}: 3172136.9/55$

All: 357.375 ± 0.032 $\chi^2/\text{NDF}: 6203439.7/106$

asym_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 6131.702+/-42.020 χ^2/NDF : 90632.2/27

Left Out: -1991.788+/-42.427 χ^2/NDF : 63766.6/24

Right Out: 4023.041+/-40.528 χ^2/NDF : 134262.5/30

Left In: -8273.228+/-44.301 χ^2/NDF : 22870.2/22

Left: -4996.810+/-30.641 χ^2/NDF : 97123.2/47

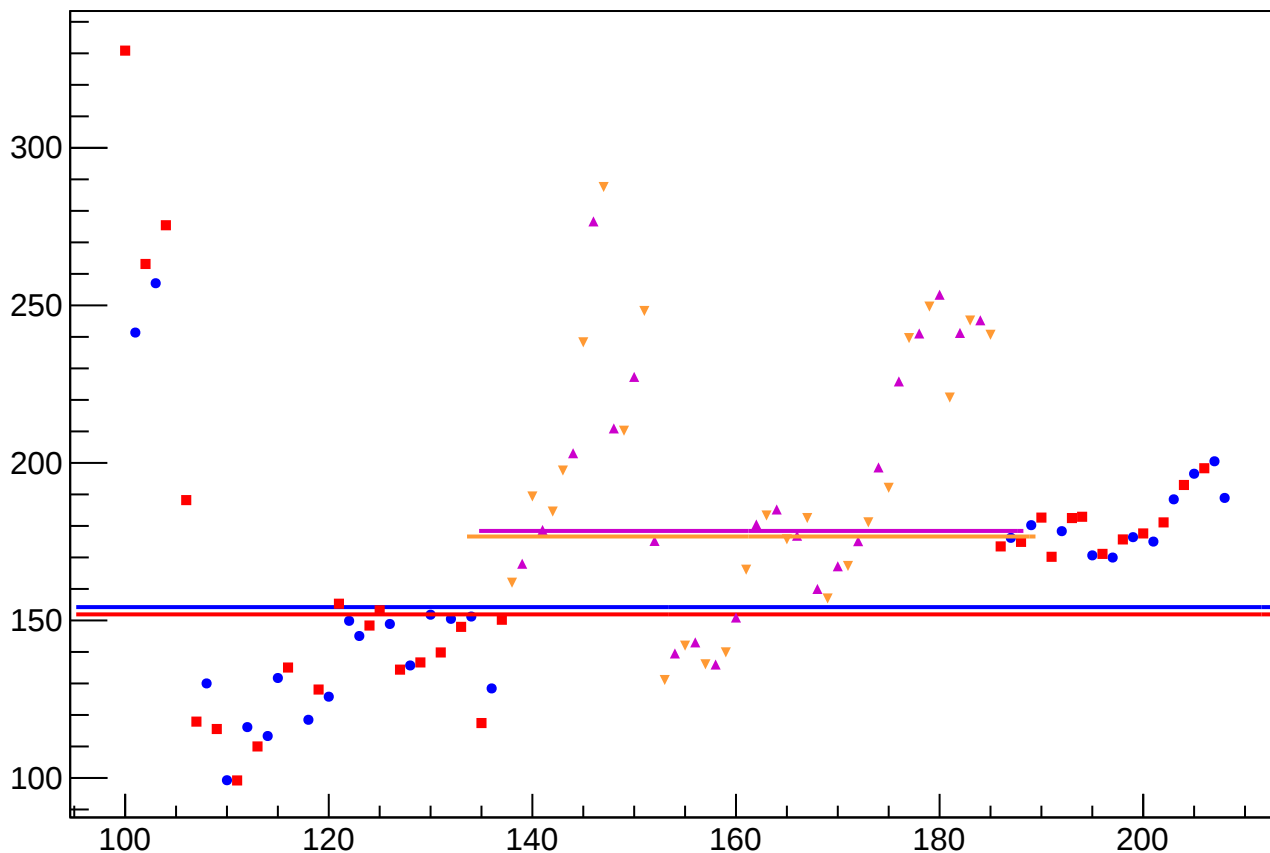
Right: 5039.269+/-29.171 χ^2/NDF : 226199.4/58

In: -690.312+/-30.487 χ^2/NDF : 169159.0/50

Out: 1153.250+/-29.306 χ^2/NDF : 208538.3/55

All: 267.878+/-21.128 χ^2/NDF : 379597.8/106

asym_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 154.232+/-0.030 χ^2/NDF : 1290550.5/27

Left Out: 176.641+/-0.030 χ^2/NDF :1551048.8/24

Right Out: 151.924+/-0.029 χ^2/NDF : 1530358.7/30

Left In: 178.413+/-0.031 χ^2/NDF :1293736.2/22

Left: 177.489+/-0.022 χ^2/NDF : 2846455.0/47

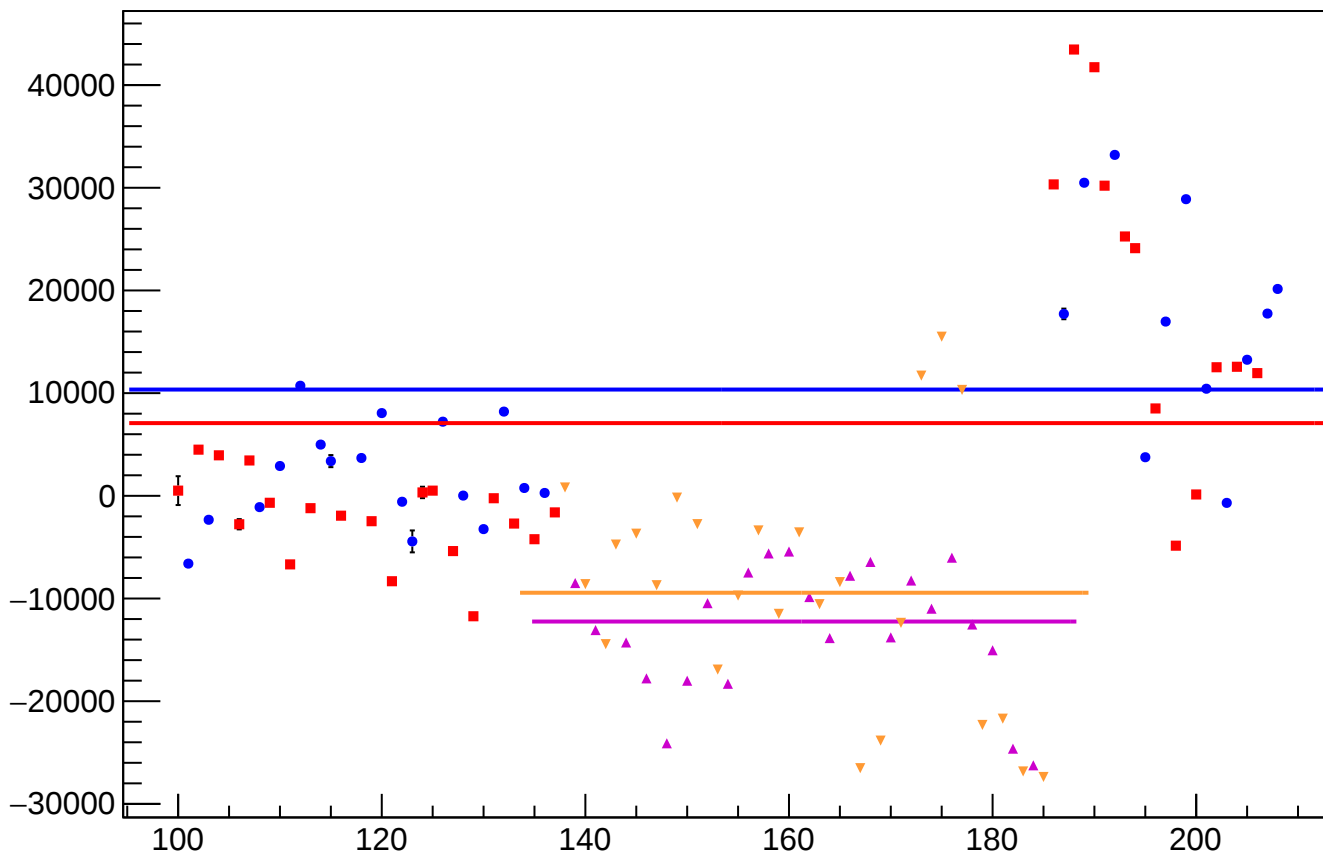
Right: 153.036+/-0.021 χ^2/NDF : 2824033.6/58

In: 165.684+/-0.022 χ^2/NDF :2897967.2/50

Out: 163.717+/-0.021 χ^2/NDF :3436318.3/55

All: 164.662+/-0.015 χ^2/NDF : 6338612.0/106

asym_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 10349.784+/-47.160

χ^2/NDF : 52244.8/27

Left: -10889.638+/-31.621

χ^2/NDF : 80800.7/47

Left Out: -9437.408+/-45.534

χ^2/NDF : 62220.4/24

Right: 8664.521+/-32.823

χ^2/NDF : 158334.6/58

Right Out: 7081.240+/-45.710

χ^2/NDF : 103613.1/30

In: -1742.540+/-32.150

χ^2/NDF : 191696.0/50

Out: -1209.972+/-32.260

χ^2/NDF : 231381.8/55

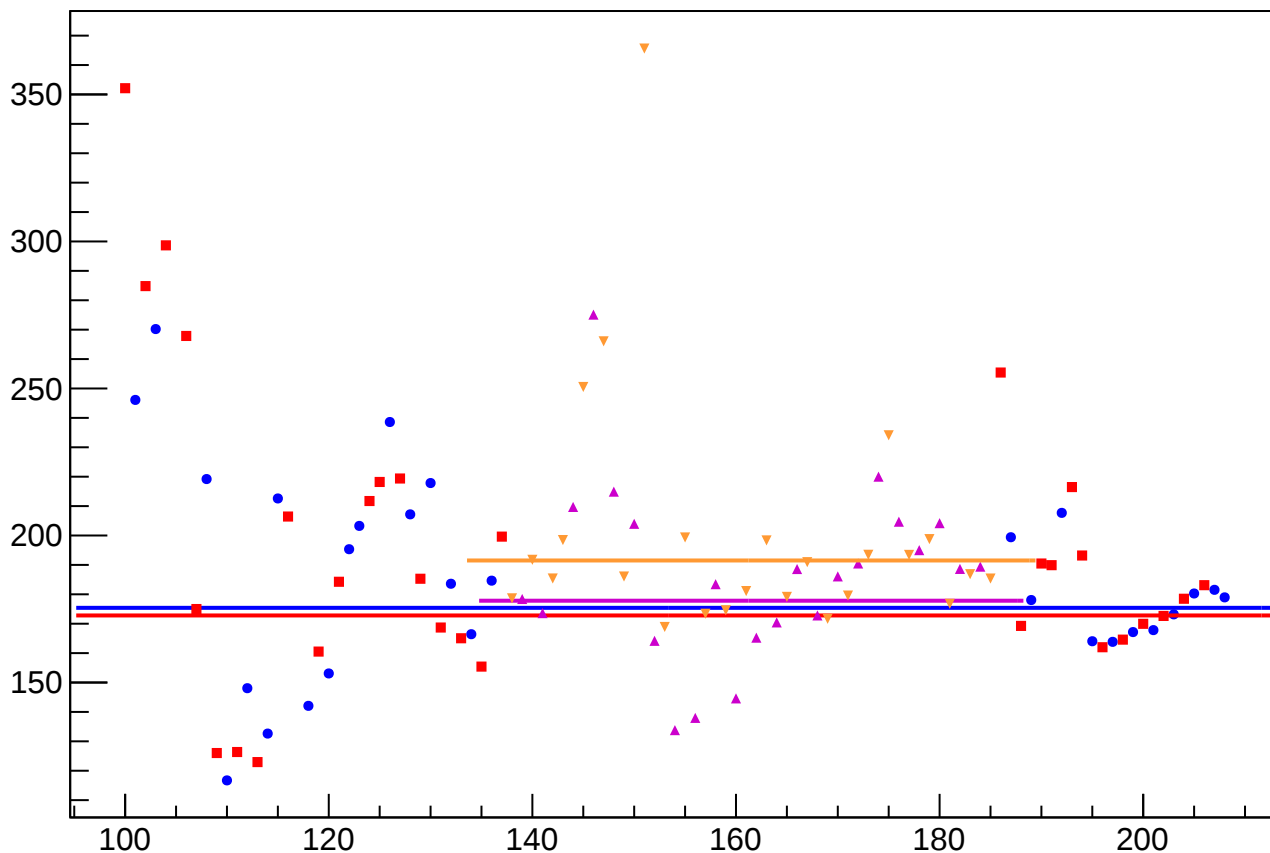
Left In: -12242.226+/-43.944

χ^2/NDF : 16615.8/22

All: -1477.163+/-22.772

χ^2/NDF : 423214.4/1

asym_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 175.401 ± 0.033 $\chi^2/\text{NDF}: 762306.7/27$

Left Out: 191.507 ± 0.032 $\chi^2/\text{NDF}: 727251.6/24$

Right Out: 172.808 ± 0.032 $\chi^2/\text{NDF}: 1131650.6/30$

Left In: 177.821 ± 0.031 $\chi^2/\text{NDF}: 862494.4/22$

Left: 184.421 ± 0.022 $\chi^2/\text{NDF}: 1683284.8/47$

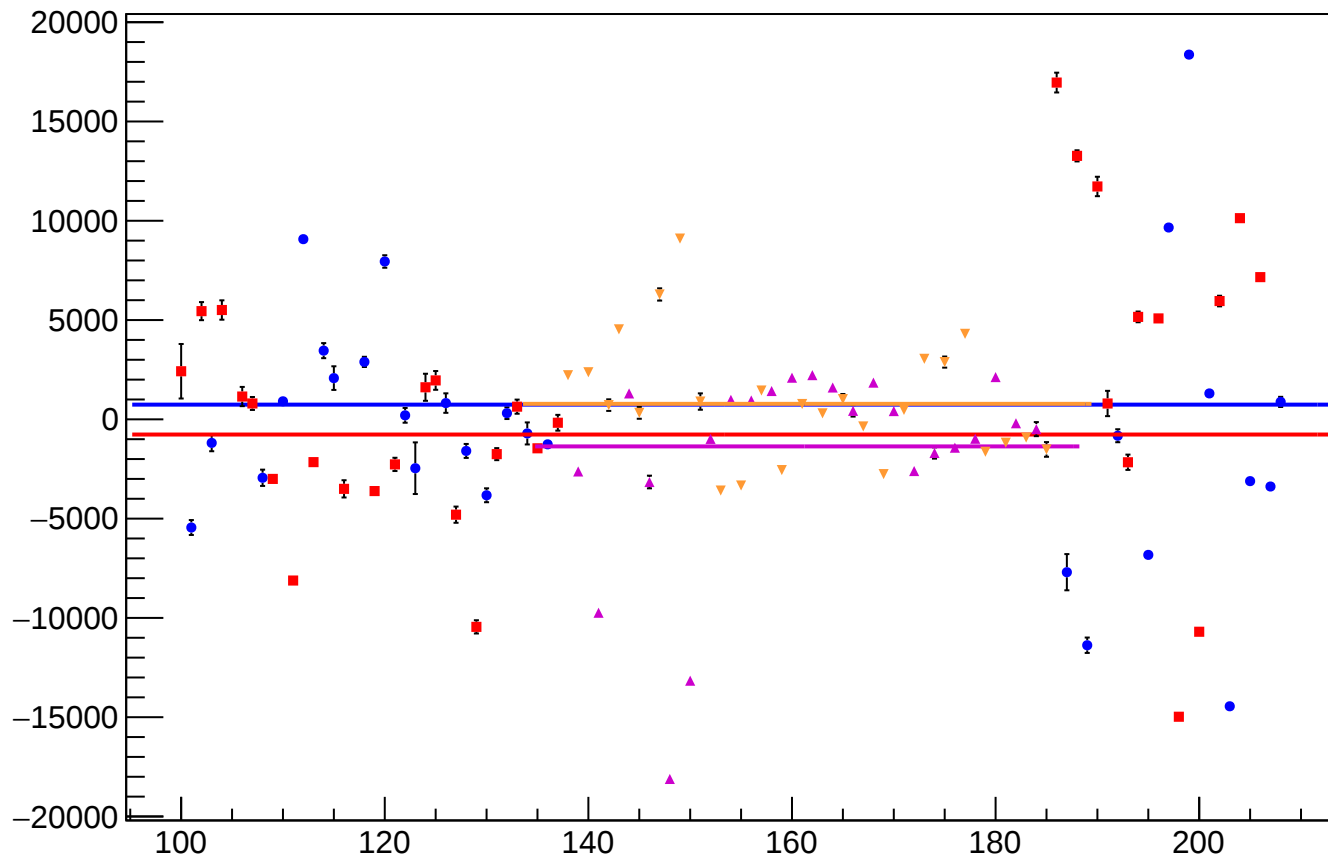
Right: 174.064 ± 0.023 $\chi^2/\text{NDF}: 1897075.3/58$

In: 176.697 ± 0.023 $\chi^2/\text{NDF}: 1627621.1/50$

Out: 182.193 ± 0.023 $\chi^2/\text{NDF}: 2026891.0/55$

All: 179.436 ± 0.016 $\chi^2/\text{NDF}: 3683644.7/106$

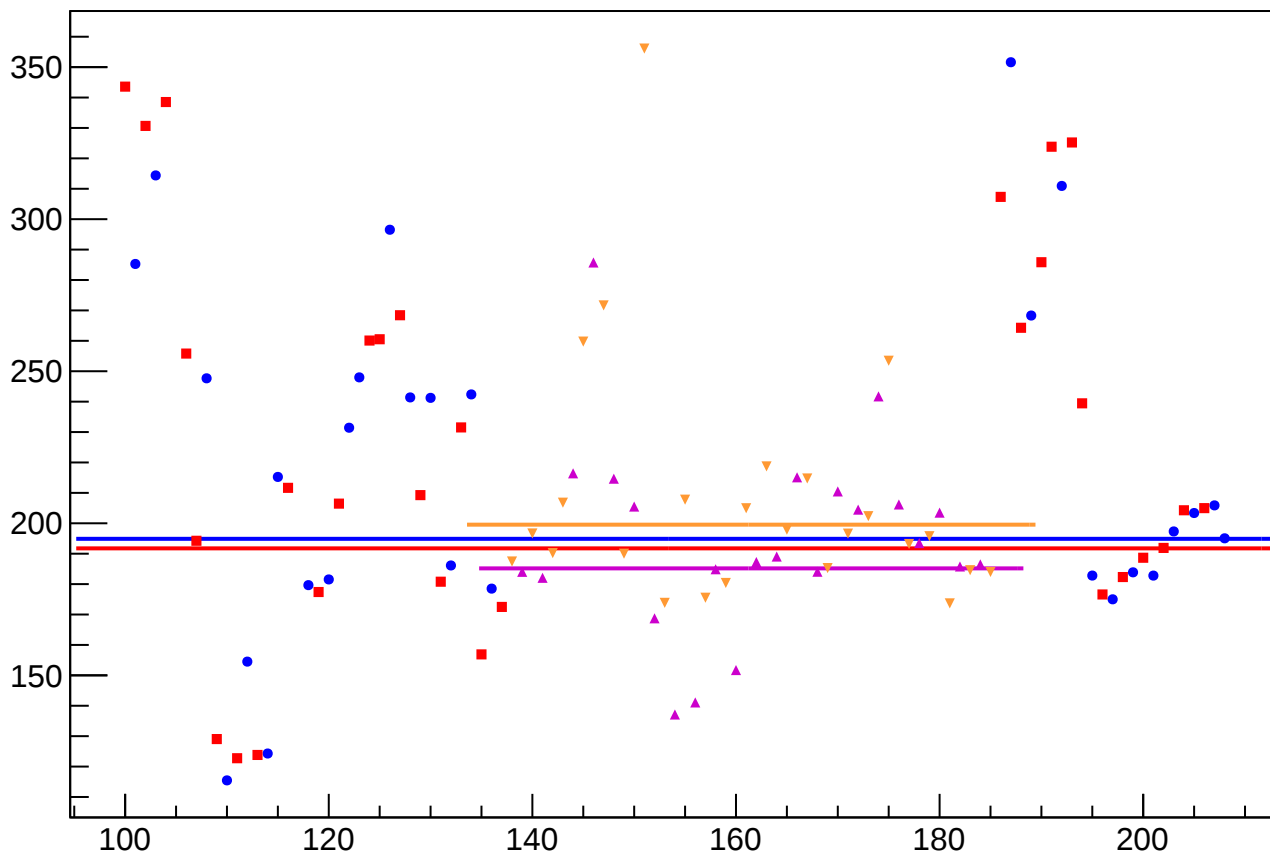
asym_bpm0i05WS_mean vs Slug, Sign Corrected



Right In: 740.666 ± 52.968 $\chi^2/\text{NDF}: 20338.2/27$
 Left Out: 779.983 ± 47.457 $\chi^2/\text{NDF}: 4260.8/24$
 Right Out: -765.096 ± 51.727 $\chi^2/\text{NDF}: 20346.1/30$
 Left In: -1363.043 ± 45.807 $\chi^2/\text{NDF}: 11632.9/22$

Left: -329.448 ± 32.958 $\chi^2/\text{NDF}: 16949.3/47$
 Right: -30.052 ± 37.008 $\chi^2/\text{NDF}: 41097.9/58$
 In: -462.910 ± 34.648 $\chi^2/\text{NDF}: 32873.5/50$
 Out: 73.839 ± 34.970 $\chi^2/\text{NDF}: 25091.3/55$
 All: -197.019 ± 24.613 $\chi^2/\text{NDF}: 58083.7/106$

asym_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 194.893 ± 0.037 χ^2/NDF : 1415382.7/27

Left Out: 199.547 ± 0.034 χ^2/NDF : 729356.3/24

Right Out: 191.752 ± 0.037 χ^2/NDF : 2142233.6/30

Left In: 185.171 ± 0.032 χ^2/NDF : 882752.2/22

Left: 192.104 ± 0.023 χ^2/NDF : 1707122.0/47

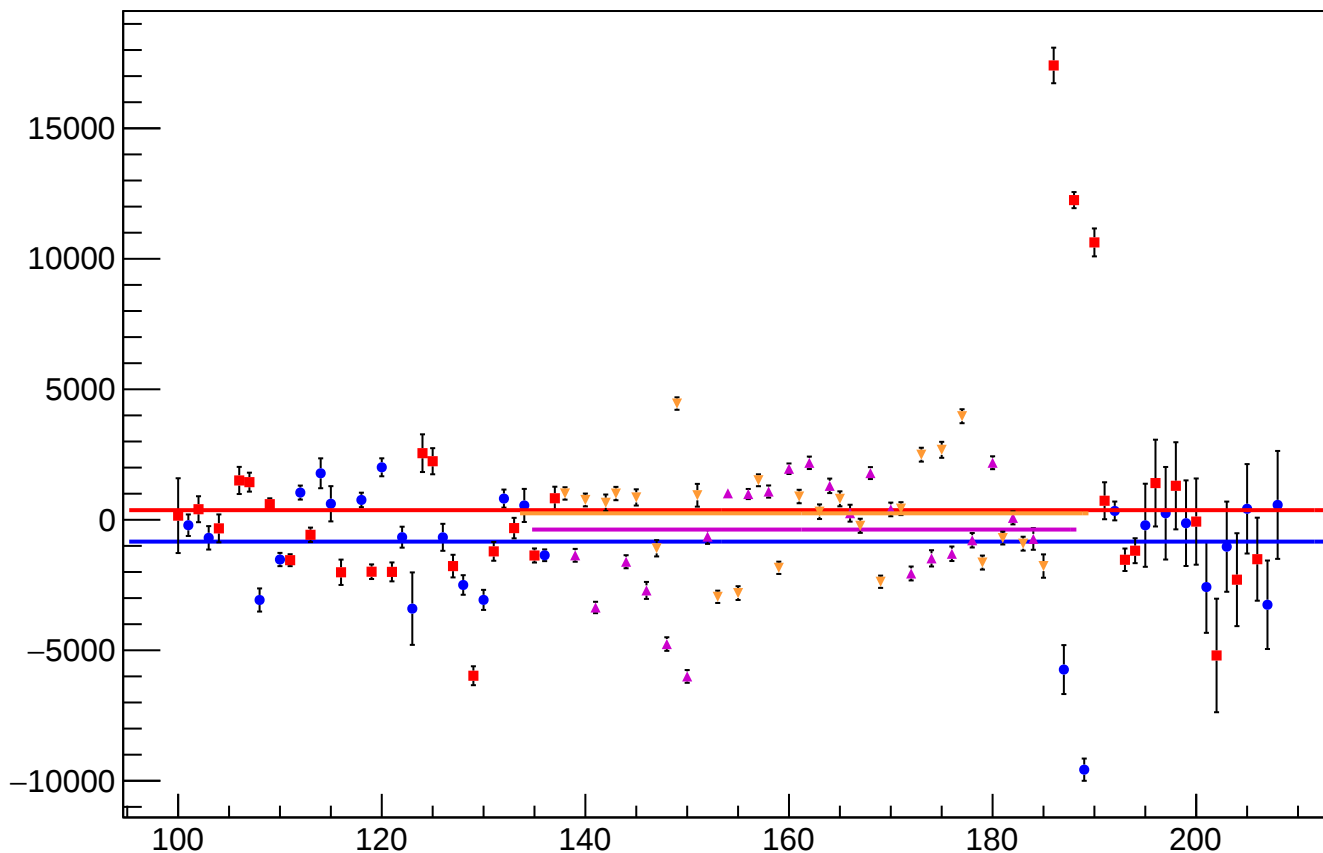
Right: 193.285 ± 0.026 χ^2/NDF : 3561214.7/58

In: 189.330 ± 0.024 χ^2/NDF : 2336684.5/50

Out: 195.985 ± 0.025 χ^2/NDF : 2896246.5/55

All: 192.627 ± 0.017 χ^2/NDF : 5269472.7/106

asym_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -835.946 $\pm$ 83.372 χ^2 /NDF: 764.2/27

Left Out: 247.844 $\pm$ 53.555 χ^2 /NDF:1355.1/24

Right Out: 368.996 $\pm$ 74.990 χ^2 /NDF: 3172.8/30

Left In: -374.122 $\pm$ 52.049 χ^2 /NDF:1801.0/22

Left: -72.006 $\pm$ 37.325 χ^2 /NDF: 3225.5/47

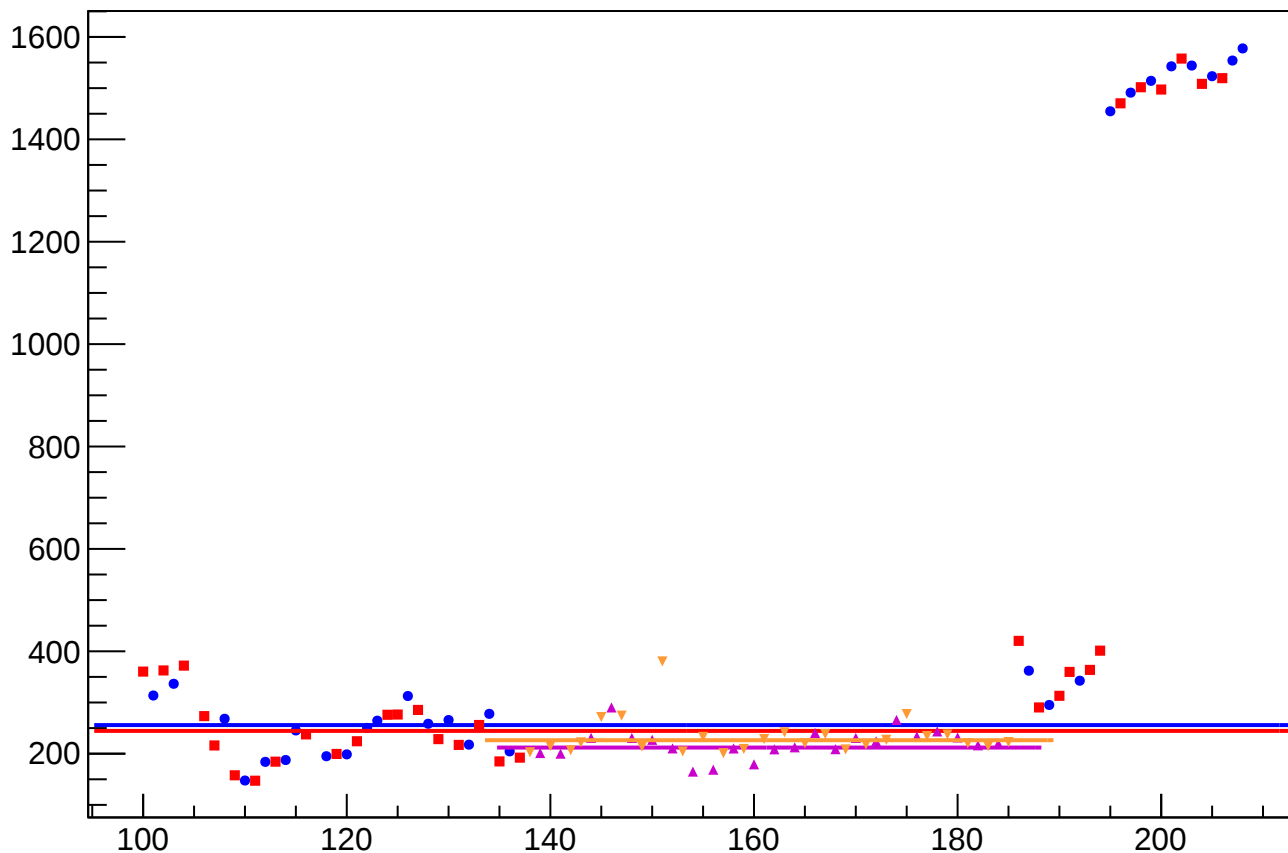
Right: -169.873 $\pm$ 55.754 χ^2 /NDF: 4052.4/58

In: -503.638 $\pm$ 44.151 χ^2 /NDF:2587.3/50

Out: 288.764 $\pm$ 43.582 χ^2 /NDF:4529.6/55

All: -102.293 $\pm$ 31.016 χ^2 /NDF: 7280.0/106

asym_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 255.878+/-0.059 χ^2/NDF : 9660935.2/27

Left Out: 226.322+/-0.038 χ^2/NDF : 521041.8/24

Right Out: 244.547+/-0.053 χ^2/NDF : 8269831.4/30

Left In: 211.970+/-0.037 χ^2/NDF : 584344.5/22

Left: 218.941+/-0.026 χ^2/NDF : 1179246.7/47

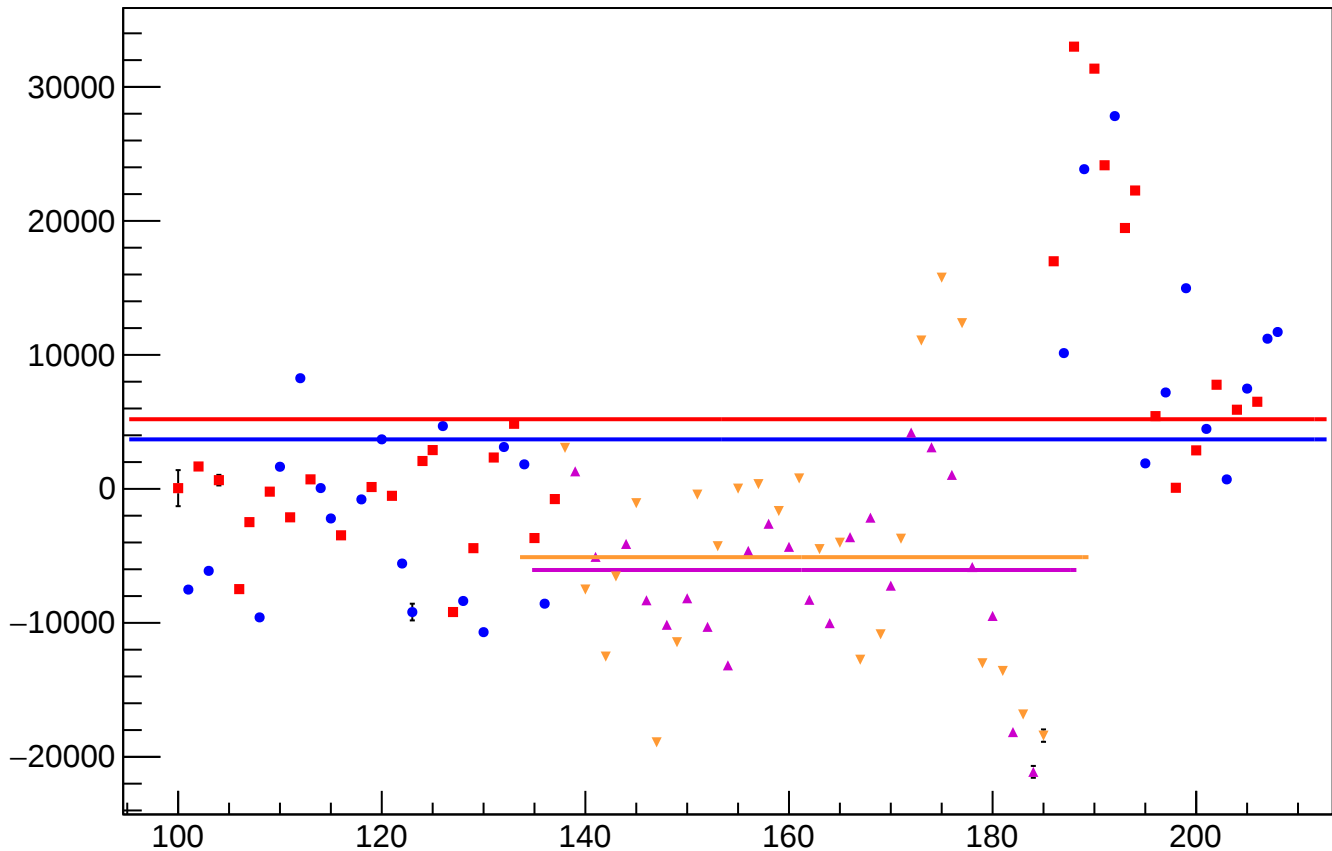
Right: 249.614+/-0.039 χ^2/NDF : 17951189.3/58

In: 224.284+/-0.031 χ^2/NDF : 10644432.1/50

Out: 232.477+/-0.031 χ^2/NDF : 8869103.4/55

All: 228.434+/-0.022 χ^2/NDF : 19548421.6/100

asym_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: 3694.951+/-35.717 χ^2/NDF : 77238.0/27

Left Out: -5095.305+/-33.703 χ^2/NDF : 54395.4/24

Right Out: 5198.497+/-34.151 χ^2/NDF : 101070.7/30

Left In: -6053.569+/-34.998 χ^2/NDF : 17590.3/22

Left: -5556.386+/-24.277 χ^2/NDF : 72374.6/47

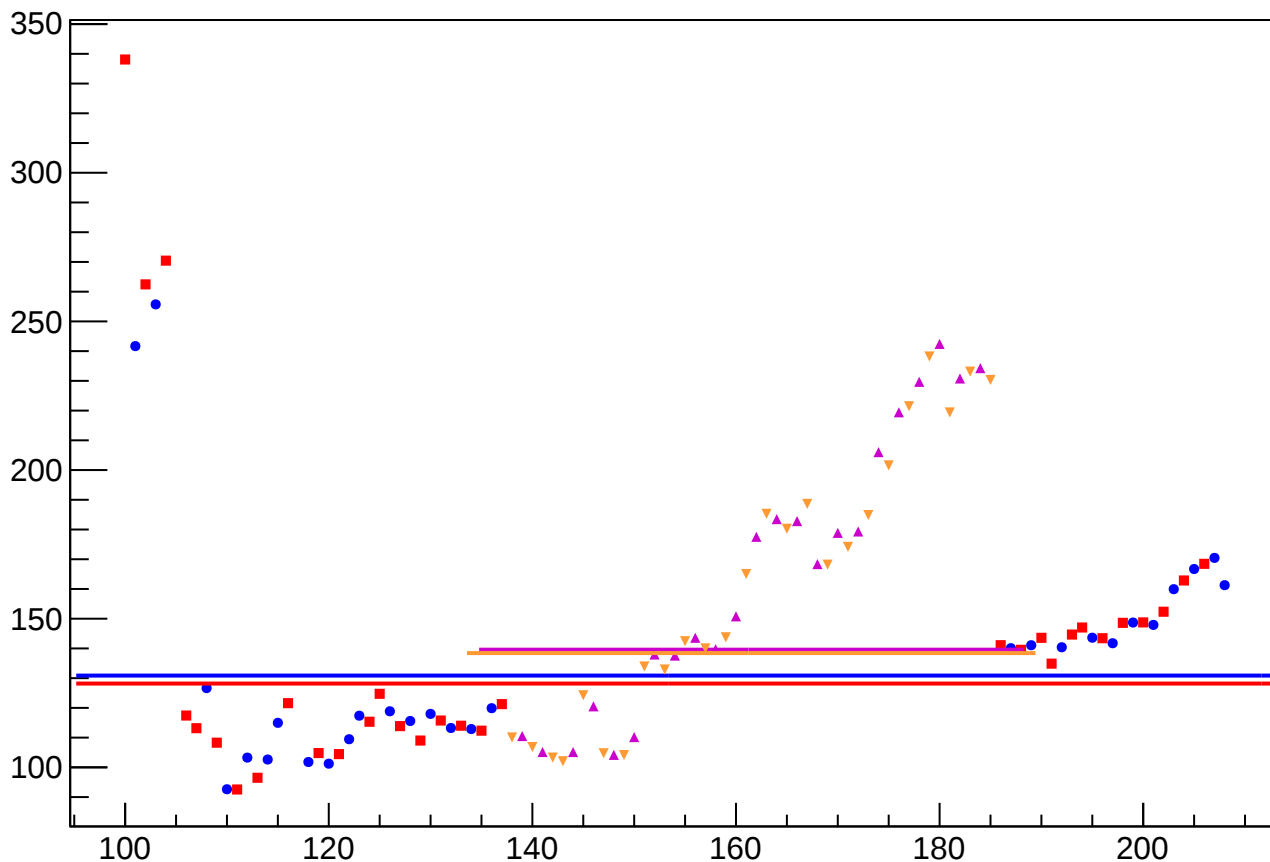
Right: 4480.405+/-24.684 χ^2/NDF : 179234.4/58

In: -1278.447+/-24.998 χ^2/NDF : 132832.8/50

Out: -16.349+/-23.989 χ^2/NDF : 201491.9/55

All: -621.412+/-17.308 χ^2/NDF : 335651.7/10

asym_bpm1i02WS_rms vs Slug, Sign Corrected



Right In: 130.866+/-0.025 χ^2/NDF : 1286966.5/27

Left Out: 138.436+/-0.024 χ^2/NDF : 2549435.8/24

Right Out: 128.185+/-0.024 χ^2/NDF : 1360974.7/30

Left In: 139.578+/-0.025 χ^2/NDF : 2413658.9/22

Left: 138.985+/-0.017 χ^2/NDF : 4964199.7/47

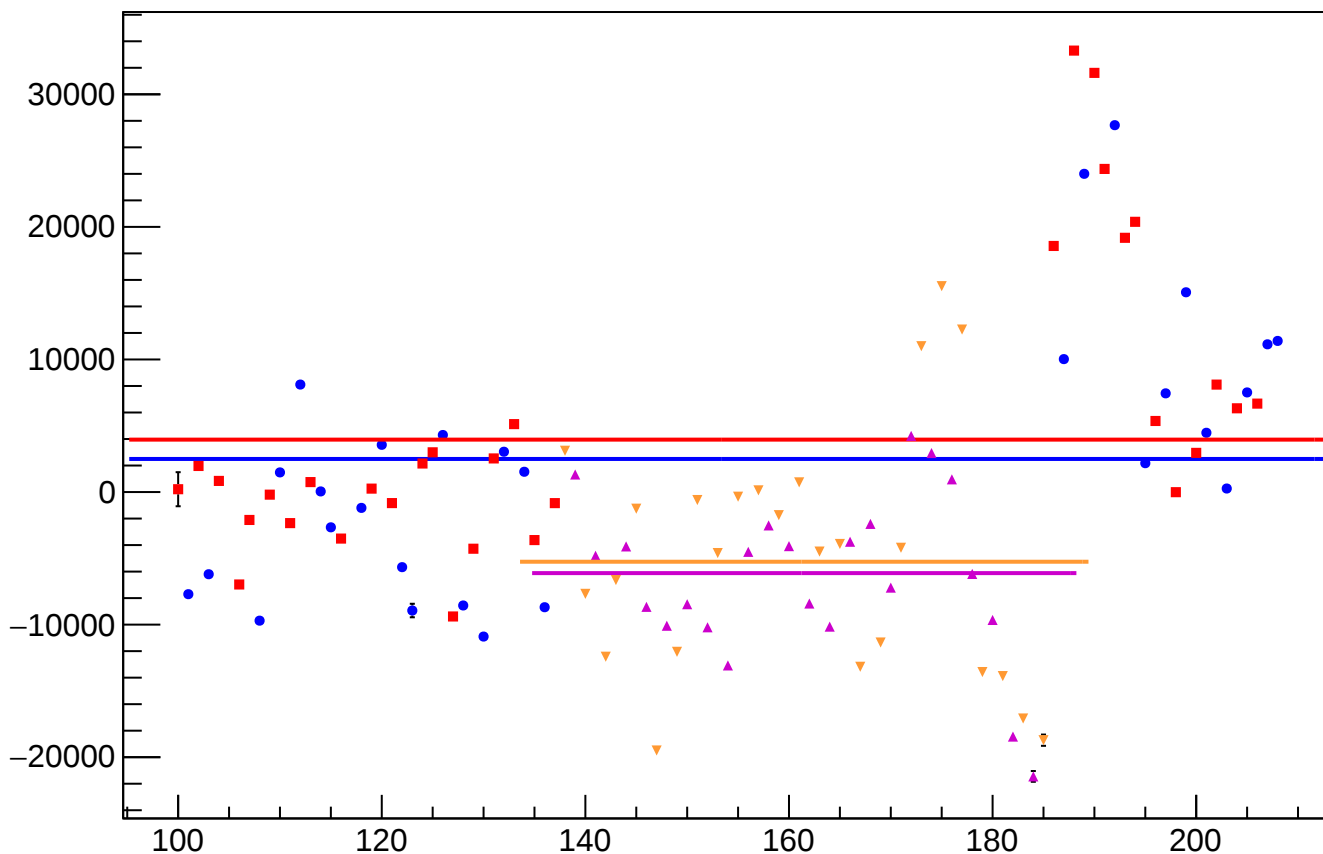
Right: 129.465+/-0.017 χ^2/NDF : 2653825.9/58

In: 135.310+/-0.018 χ^2/NDF : 3761330.8/50

Out: 133.378+/-0.017 χ^2/NDF : 4001689.7/55

All: 134.304+/-0.012 χ^2/NDF : 7769241.4/106

asym_bpm1i04WS_mean vs Slug, Sign Corrected



Right In: 2495.779+/-31.900

χ^2/NDF : 86438.2/27

Left: -5664.697+/-22.166

χ^2/NDF : 85960.3/47

Left Out: -5255.652+/-30.622

χ^2/NDF : 64324.6/24

Right: 3254.270+/-22.100

χ^2/NDF : 196110.3/58

Right Out: 3954.318+/-30.647

χ^2/NDF : 108585.0/30

In: -1779.248+/-22.636

χ^2/NDF : 143872.4/50

Out: -654.373+/-21.662

χ^2/NDF : 218102.6/55

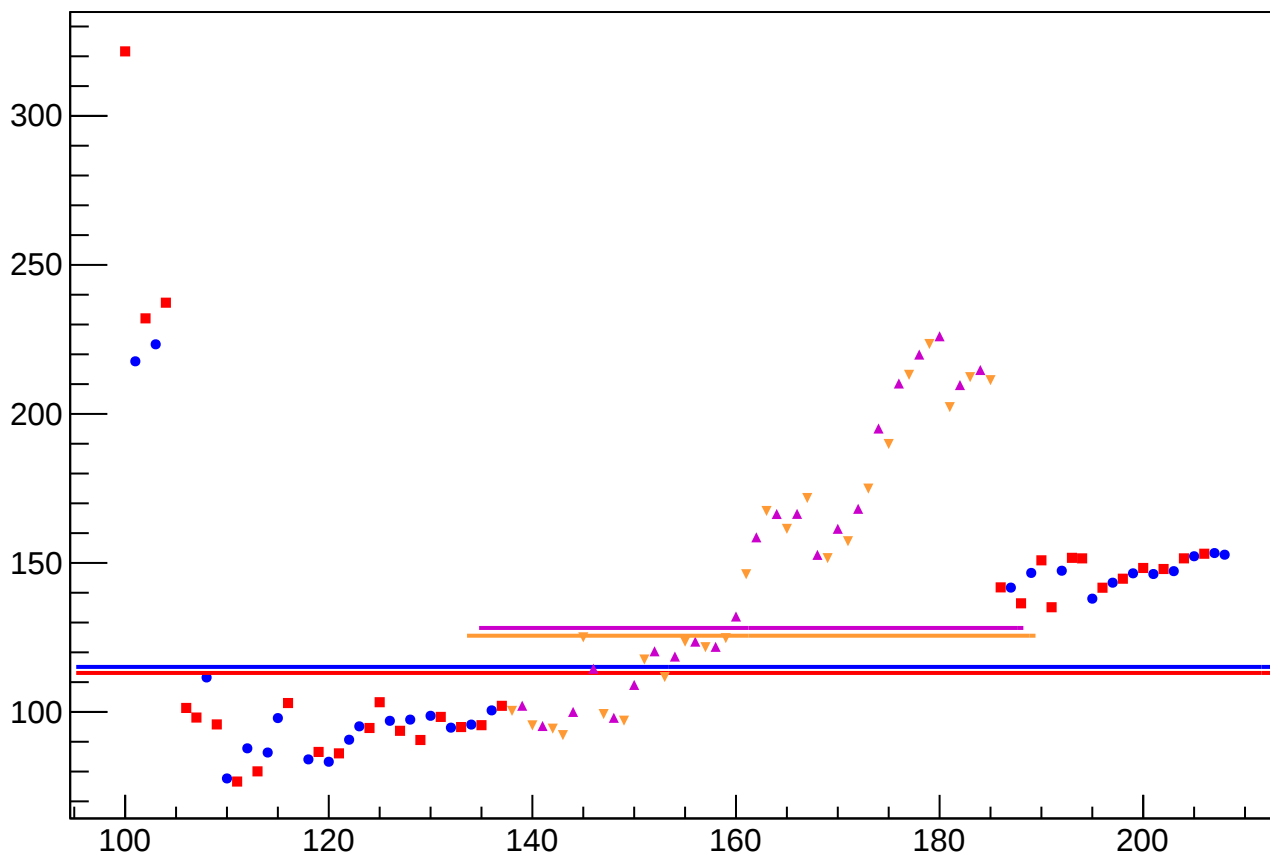
Left In: -6114.901+/-32.126

χ^2/NDF : 21260.9/22

All: -1192.079+/-15.650

χ^2/NDF : 363264.0/1

asym_bpm1i04WS_rms vs Slug, Sign Corrected



Right In: 115.110 $\pm$ 0.023 χ^2 /NDF: 1969918.7/27

Left Out: 125.577 $\pm$ 0.022 χ^2 /NDF: 2595752.6/24

Right Out: 113.086 $\pm$ 0.022 χ^2 /NDF: 2156137.7/30

Left In: 128.184 $\pm$ 0.023 χ^2 /NDF: 2332977.5/22

Left: 126.818 $\pm$ 0.016 χ^2 /NDF: 4935627.6/47

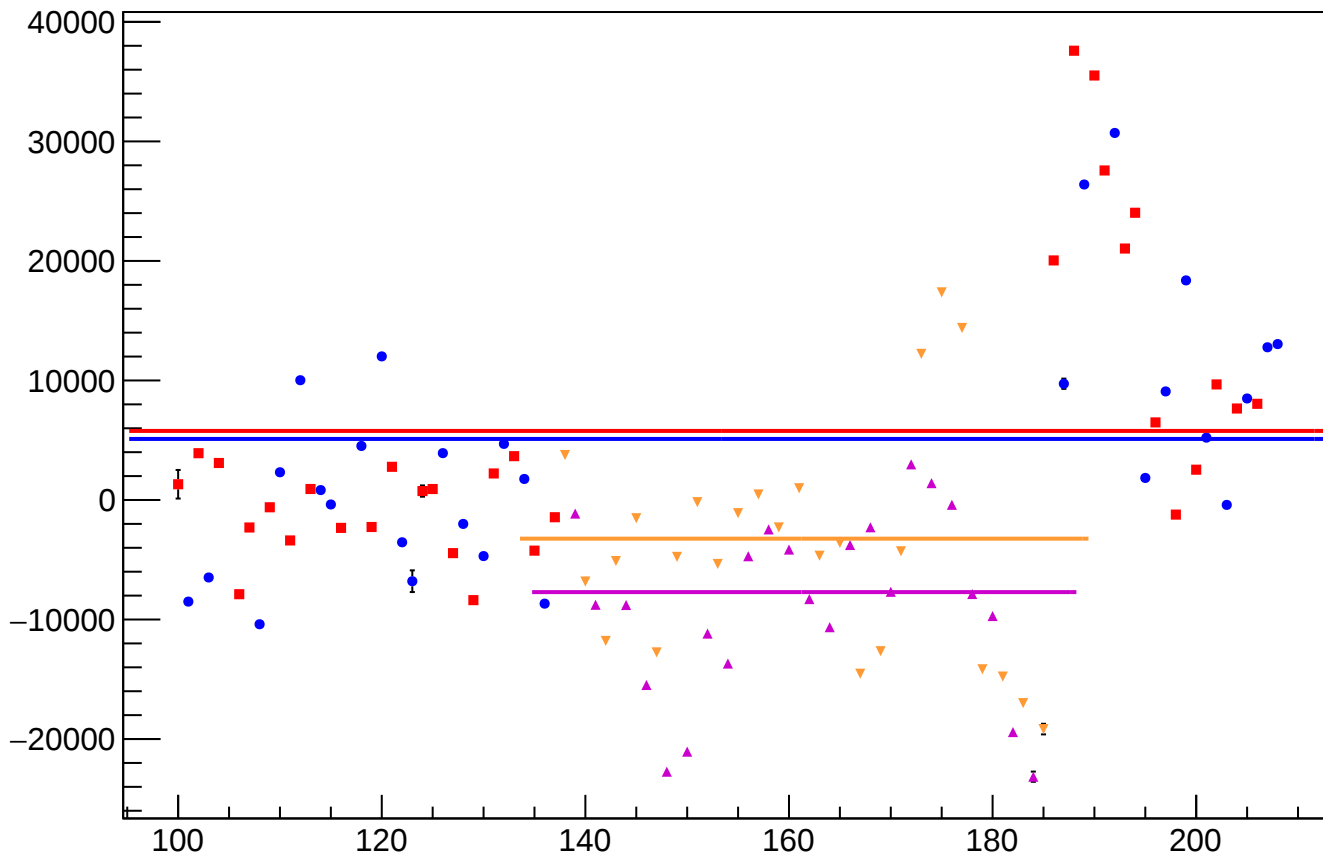
Right: 114.058 $\pm$ 0.016 χ^2 /NDF: 4130243.8/58

In: 121.601 $\pm$ 0.016 χ^2 /NDF: 4469664.4/50

Out: 119.337 $\pm$ 0.015 χ^2 /NDF: 4918146.4/55

All: 120.419 $\pm$ 0.011 χ^2 /NDF: 9398255.9/106

asym_bpm1i06WS_mean vs Slug, Sign Corrected



Right In: 5107.451 $\pm$ 42.304 χ^2/NDF : 60976.7/27

Left Out: -3234.922 $\pm$ 40.583 χ^2/NDF :36739.9/24

Right Out: 5778.378 $\pm$ 40.523 χ^2/NDF : 90553.8/30

Left In: -7707.068 $\pm$ 42.990 χ^2/NDF :21268.3/22

Left: -5342.284 $\pm$ 29.511 χ^2/NDF : 63730.6/47

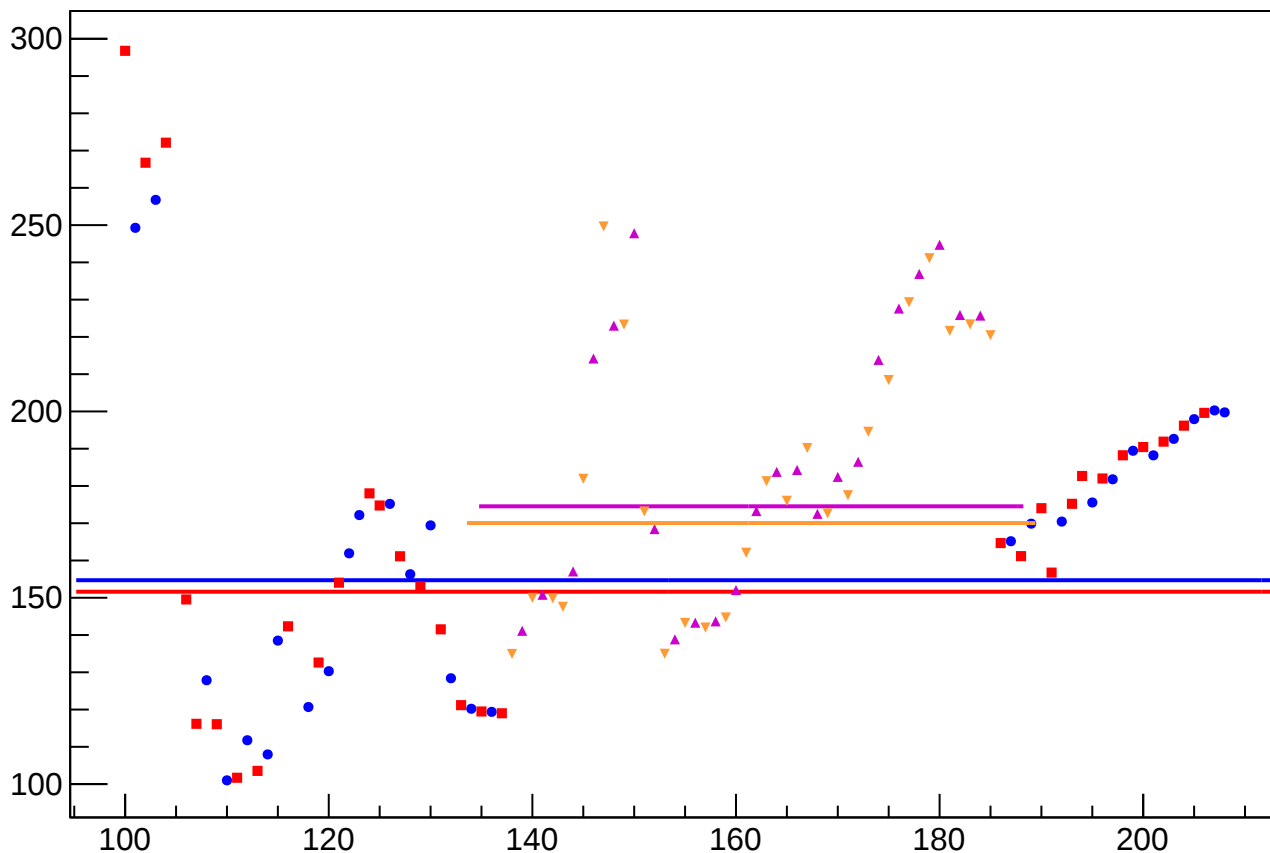
Right: 5457.330 $\pm$ 29.263 χ^2/NDF : 151661.7/58

In: -1196.698 $\pm$ 30.153 χ^2/NDF :127386.4/50

Out: 1278.336 $\pm$ 28.675 χ^2/NDF :151993.5/55

All: 102.948 $\pm$ 20.779 χ^2/NDF : 282917.9/106

asym_bpm1i06WS_rms vs Slug, Sign Corrected



Right In: 154.707 $\pm$ 0.030 χ^2/NDF : 1536888.3/27

Left Out: 170.050 $\pm$ 0.029 χ^2/NDF :1240866.9/24

Right Out: 151.623 $\pm$ 0.029 χ^2/NDF : 1639459.5/30

Left In: 174.539 $\pm$ 0.030 χ^2/NDF :1210071.2/22

Left: 172.165 $\pm$ 0.021 χ^2/NDF : 2462472.2/47

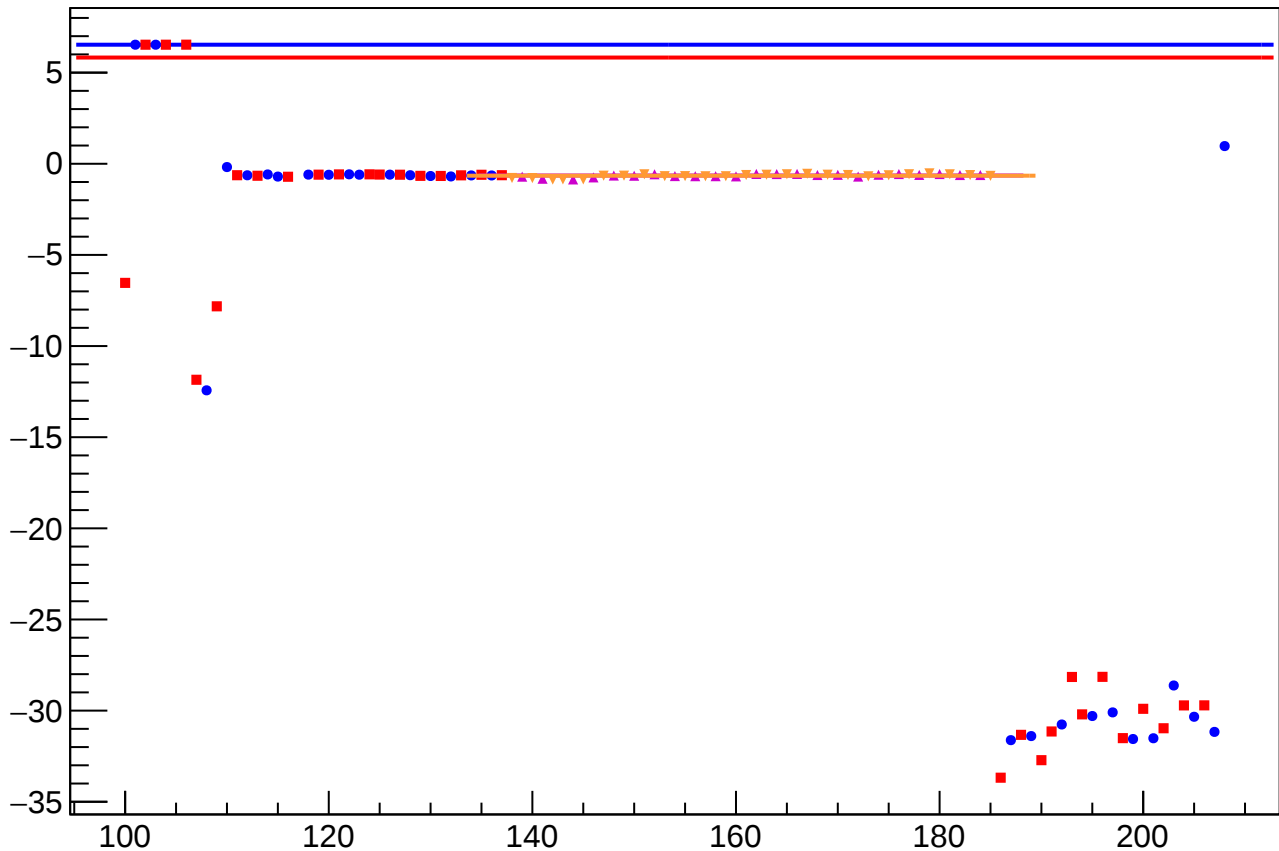
Right: 153.099 $\pm$ 0.021 χ^2/NDF : 3181892.8/58

In: 164.464 $\pm$ 0.021 χ^2/NDF :2963192.1/50

Out: 160.823 $\pm$ 0.020 χ^2/NDF :3086793.5/55

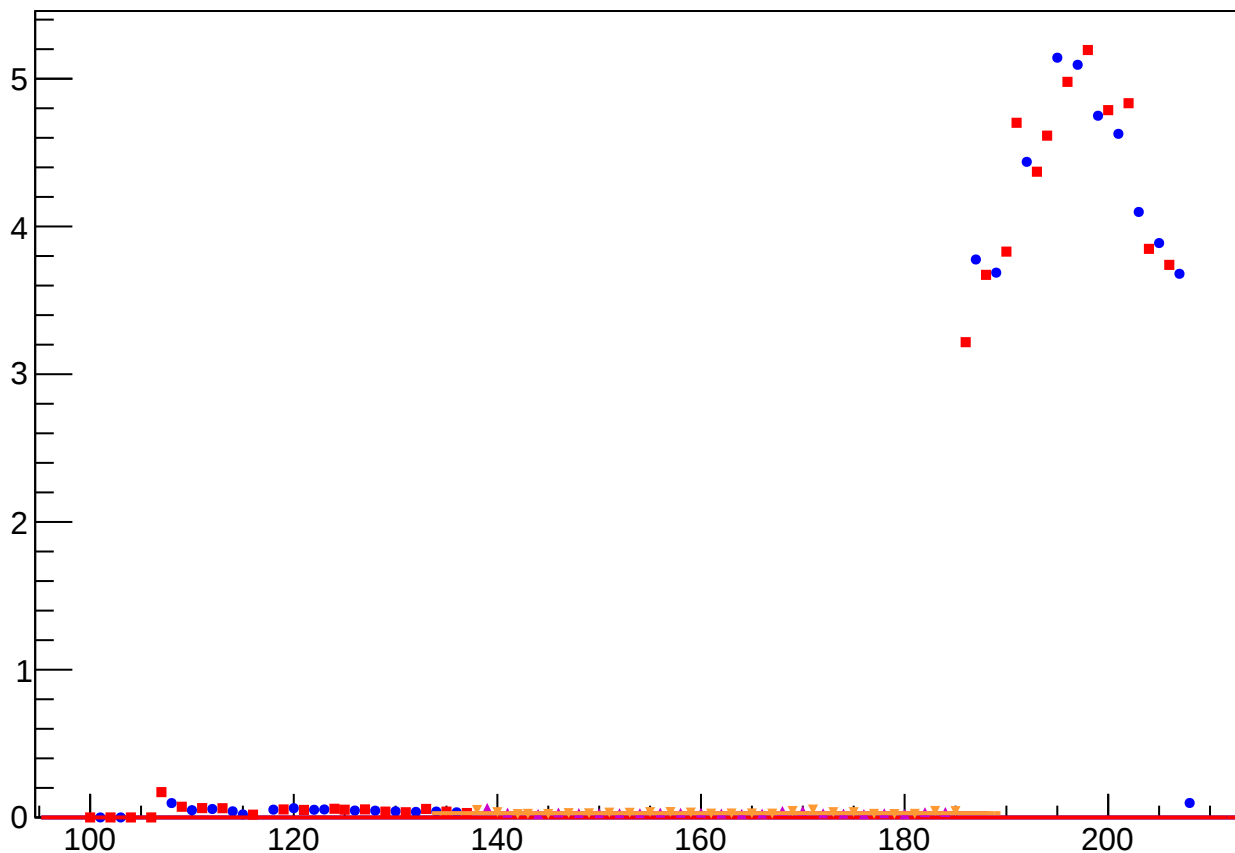
All: 162.552 $\pm$ 0.015 χ^2/NDF : 6065298.5/106

yield_cav4bX_mean vs Slug, Sign Corrected



Right In: 6.532+/-0.000	χ^2/NDF : 129910336814.7/27	Left: -0.649+/-0.000	χ^2/NDF : 302910331.9/47
Left Out: -0.654+/-0.000	χ^2/NDF : 179109810.4/24	Right: 6.155+/-0.000	χ^2/NDF : 776080732101509.2
Right Out: 5.827+/-0.000	χ^2/NDF : 755947893243945.9/30	In: 6.530+/-0.000	χ^2/NDF : 955256711610.8/50
Left In: -0.644+/-0.000	χ^2/NDF : 122913584.0/22	Out: 5.826+/-0.000	χ^2/NDF : 756656921882324.6/5
		All: 6.153+/-0.000	χ^2/NDF : 7776041009891

yield_cav4bX_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 24080500.5/27

Left Out: 0.029+/-0.000 χ^2/NDF :1487017.7/24

Right Out: 0.000+/-0.000 χ^2/NDF : 24929397.8/30

Left In: 0.029+/-0.000 χ^2/NDF :1164030.9/22

Left: 0.029+/-0.000 χ^2/NDF : 2651180.7/47

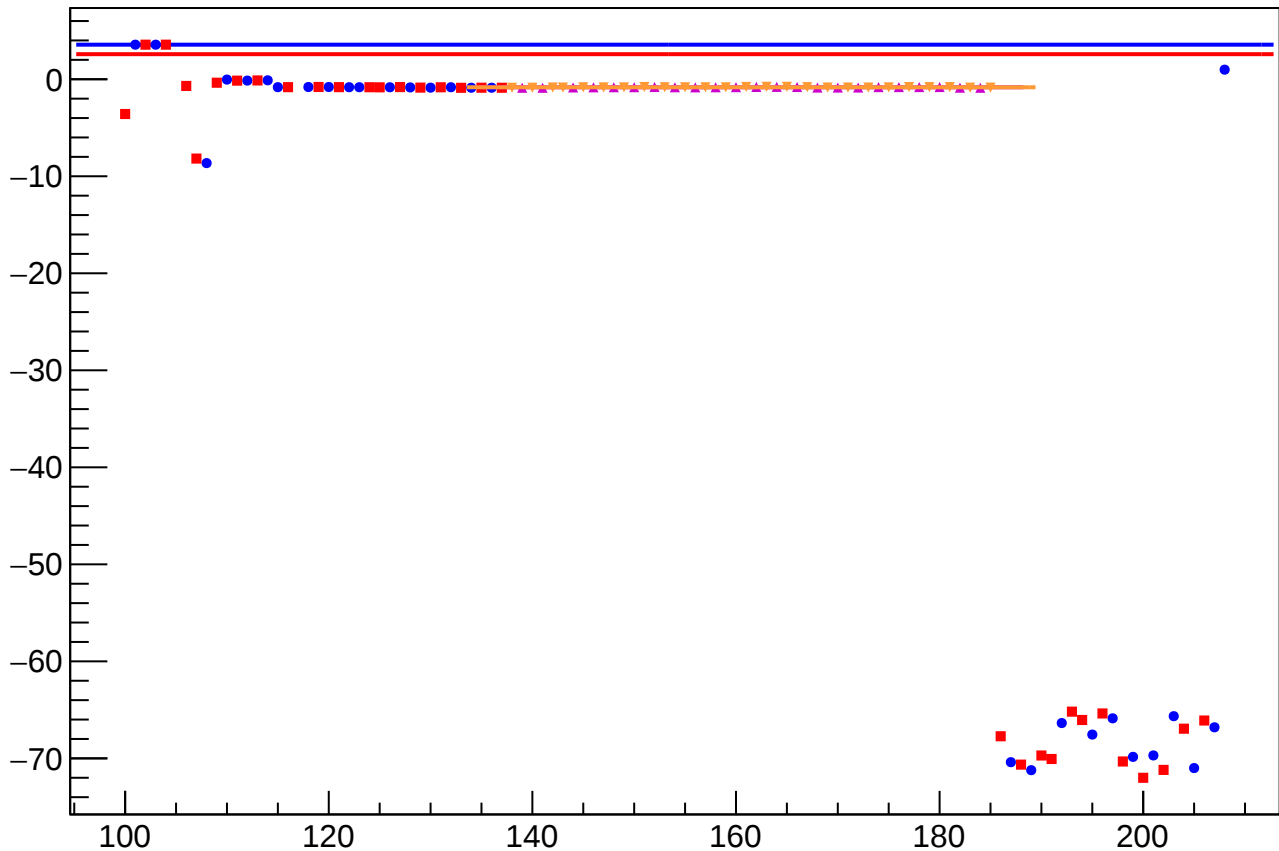
Right: 0.000+/-0.000 χ^2/NDF : 49010170.9/58

In: 0.000+/-0.000 χ^2/NDF :52042024.7/50

Out: 0.000+/-0.000 χ^2/NDF :54805058.9/55

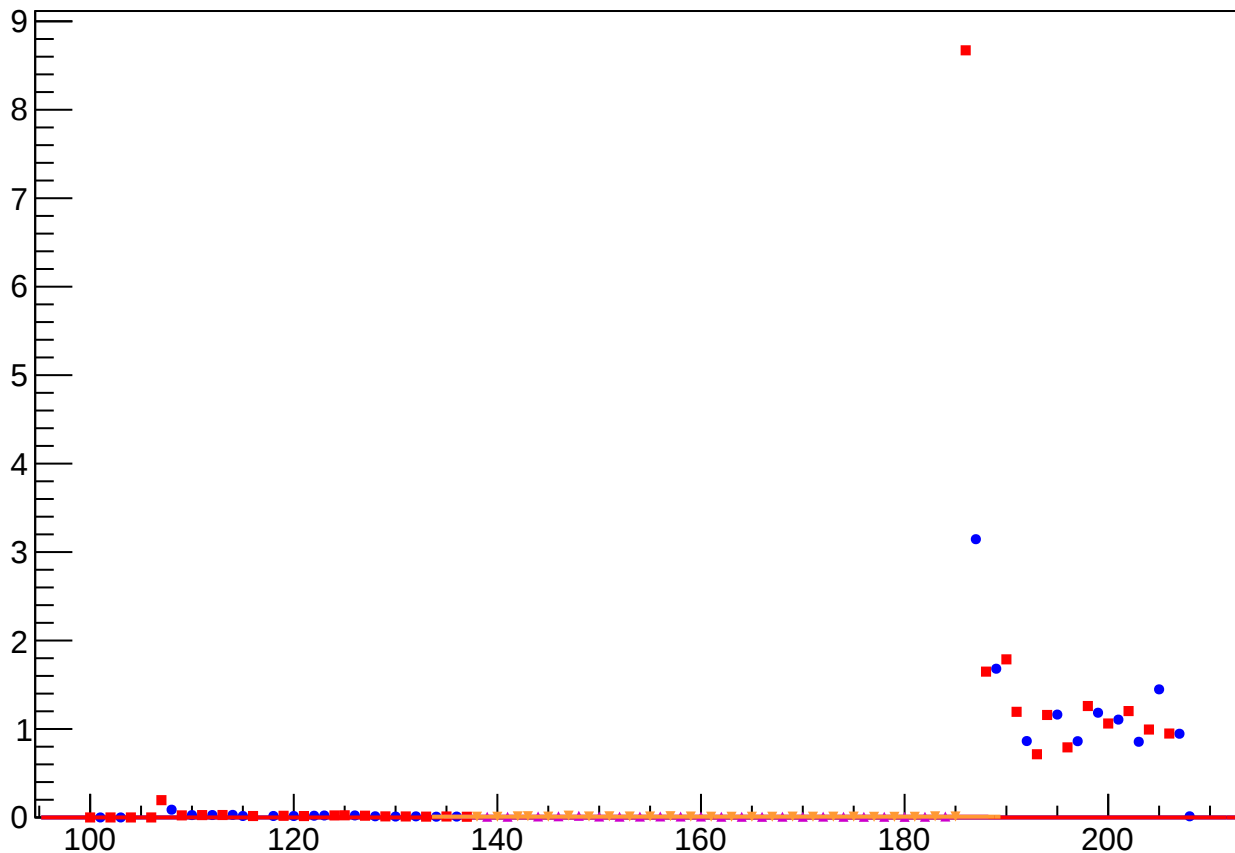
All: 0.000+/-0.000 χ^2/NDF : 106847528.3/106

yield_cav4bY_mean vs Slug, Sign Corrected



Right In: 3.563+/-0.000	χ^2/NDF : 530127462528.1/27	Left: -0.827+/-0.000	χ^2/NDF : 340927693.4/47
Left Out: -0.828+/-0.000	χ^2/NDF : 168178464.8/24	Right: 3.040+/-0.000	χ^2/NDF : 1382328310196229.5
Right Out: 2.583+/-0.000	χ^2/NDF : 1253533783353776.2/30	In: 3.560+/-0.000	χ^2/NDF : 4175830556607.9/50
Left In: -0.827+/-0.000	χ^2/NDF : 172640246.1/22	Out: 2.581+/-0.000	χ^2/NDF : 1255756114057365.5
		All: 3.038+/-0.000	χ^2/NDF : 13880147500335.5

yield_cav4bY_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2 /NDF: 22266807.8/27

Left Out: 0.009+/-0.000 χ^2 /NDF:1454710.9/24

Right Out: 0.000+/-0.000 χ^2 /NDF: 23066551.2/30

Left In: 0.009+/-0.000 χ^2 /NDF:1041524.9/22

Left: 0.009+/-0.000 χ^2 /NDF: 2502231.5/47

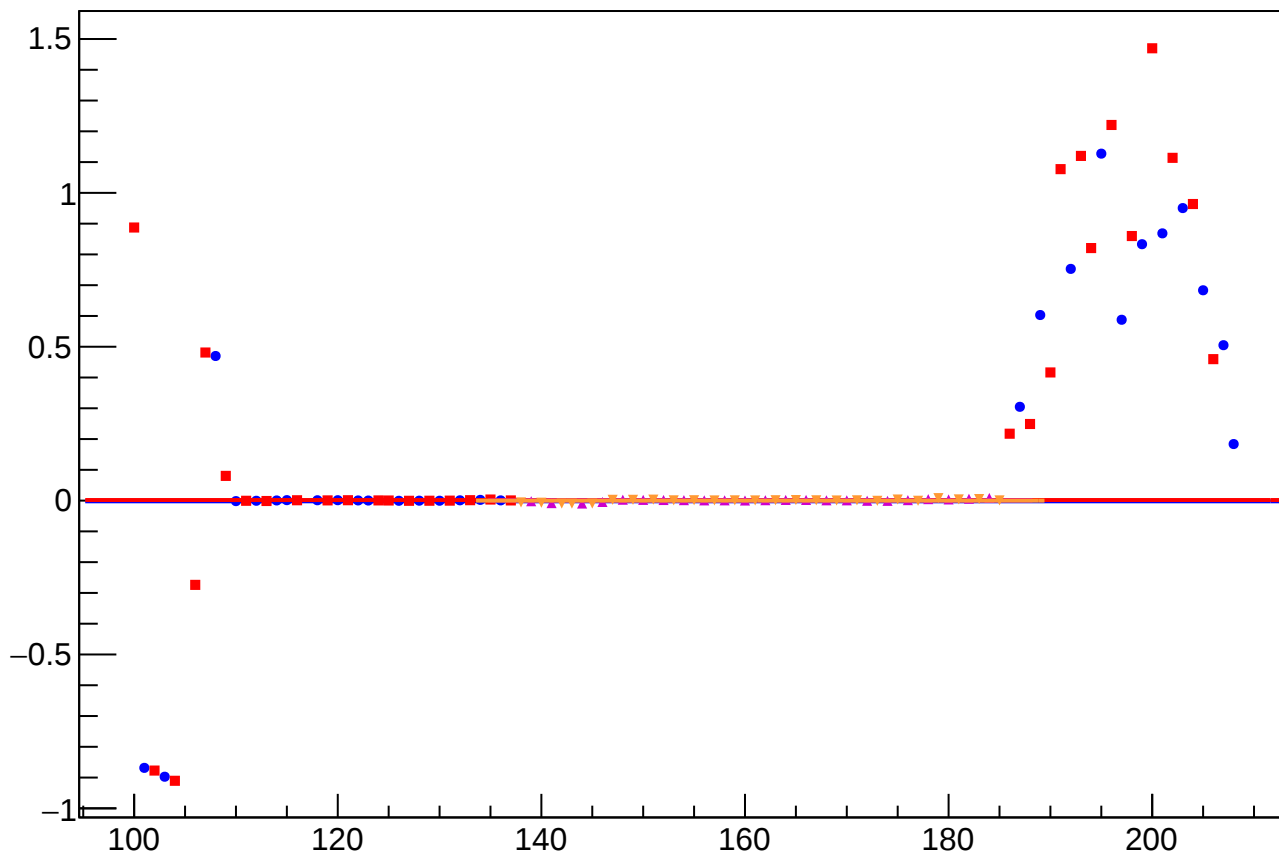
Right: 0.000+/-0.000 χ^2 /NDF: 45333725.1/58

In: 0.000+/-0.000 χ^2 /NDF:51801876.5/50

Out: 0.000+/-0.000 χ^2 /NDF:54485126.6/55

All: 0.000+/-0.000 χ^2 /NDF: 106287893.1/106

yield_cav4cX_mean vs Slug, Sign Corrected



Right In: -0.002+/-0.000

χ^2/NDF : 9797101725.2/27

Left: 0.000+/-0.000 χ^2/NDF : 254436385.6/47

Left Out: -0.000+/-0.000

χ^2/NDF : 151482851.1/24

Right: -0.000+/-0.000 χ^2/NDF : 12854550343.5/58

Right Out: 0.002+/-0.000

χ^2/NDF : 3043679398.6/30

In: -0.000+/-0.000 χ^2/NDF : 9909551672.6/50

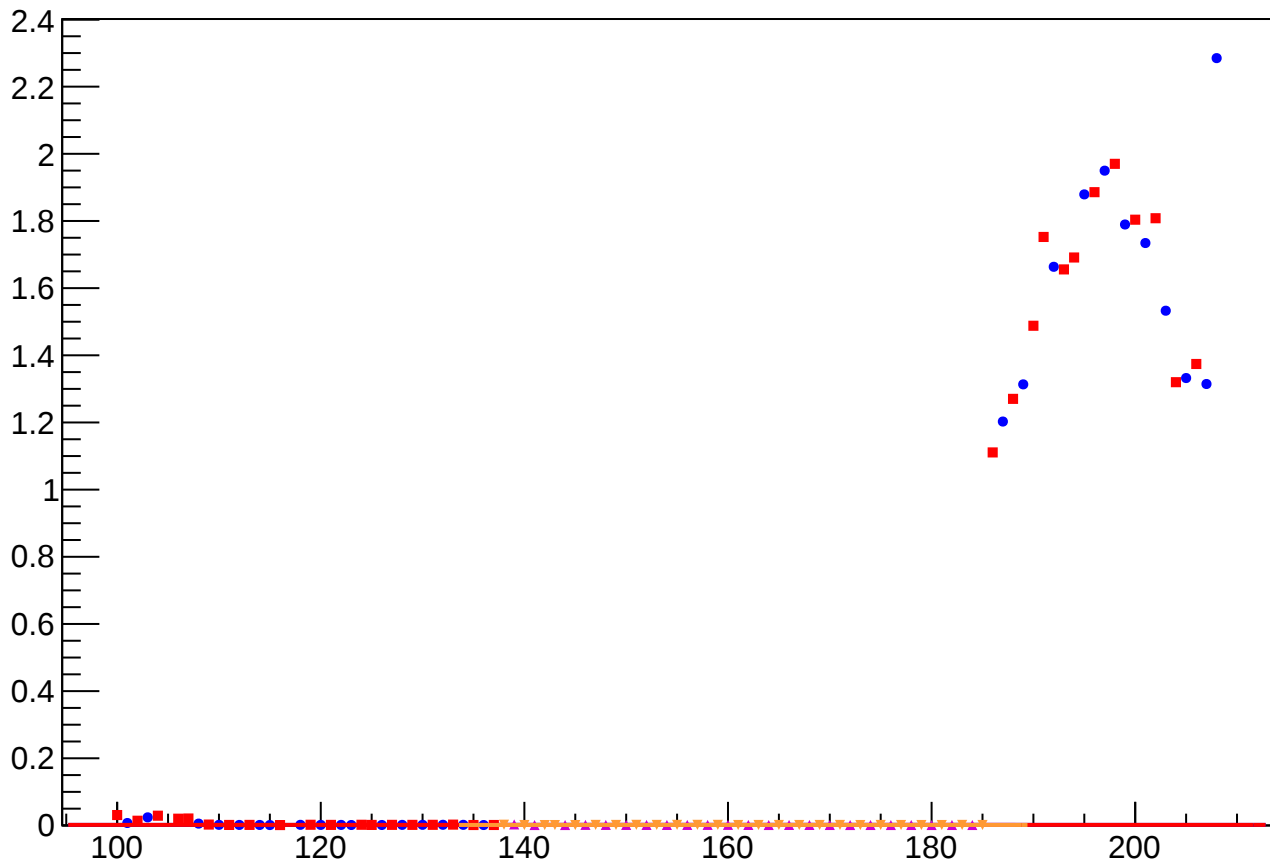
Out: 0.000+/-0.000 χ^2/NDF : 3199896250.7/55

Left In: 0.001+/-0.000

χ^2/NDF : 101439617.3/22

All: 0.000+/-0.000 χ^2/NDF : 13109784944.3/100

yield_cav4cX_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 16959569.2/27

Left Out: 0.001+/-0.000 χ^2/NDF : 539817.3/24

Right Out: 0.002+/-0.000 χ^2/NDF : 18561242.3/30

Left In: 0.001+/-0.000 χ^2/NDF : 626044.8/22

Left: 0.001+/-0.000 χ^2/NDF : 1169603.9/47

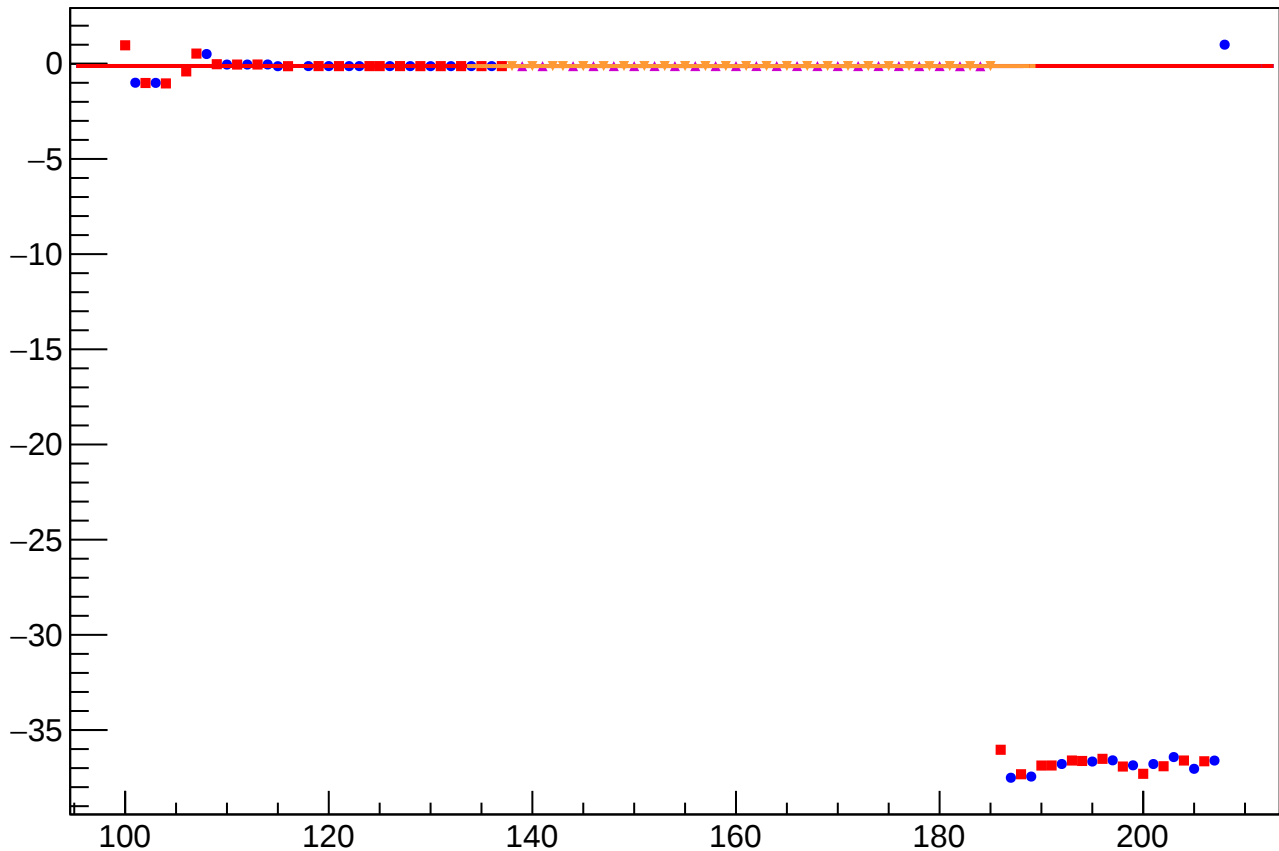
Right: 0.002+/-0.000 χ^2/NDF : 35529298.8/58

In: 0.002+/-0.000 χ^2/NDF : 17637538.2/50

Out: 0.002+/-0.000 χ^2/NDF : 19240306.2/55

All: 0.002+/-0.000 χ^2/NDF : 36878761.4/106

yield_cav4cY_mean vs Slug, Sign Corrected



Right In: -0.118+/-0.000 χ^2/NDF : 73101868843.3/27

Left Out: -0.121+/-0.000 χ^2/NDF : 58120109.3/24

Right Out: -0.116+/-0.000 χ^2/NDF : 68419227911.5/30

Left In: -0.121+/-0.000 χ^2/NDF : 52113932.9/22

Left: -0.121+/-0.000 χ^2/NDF : 110482905.6/47

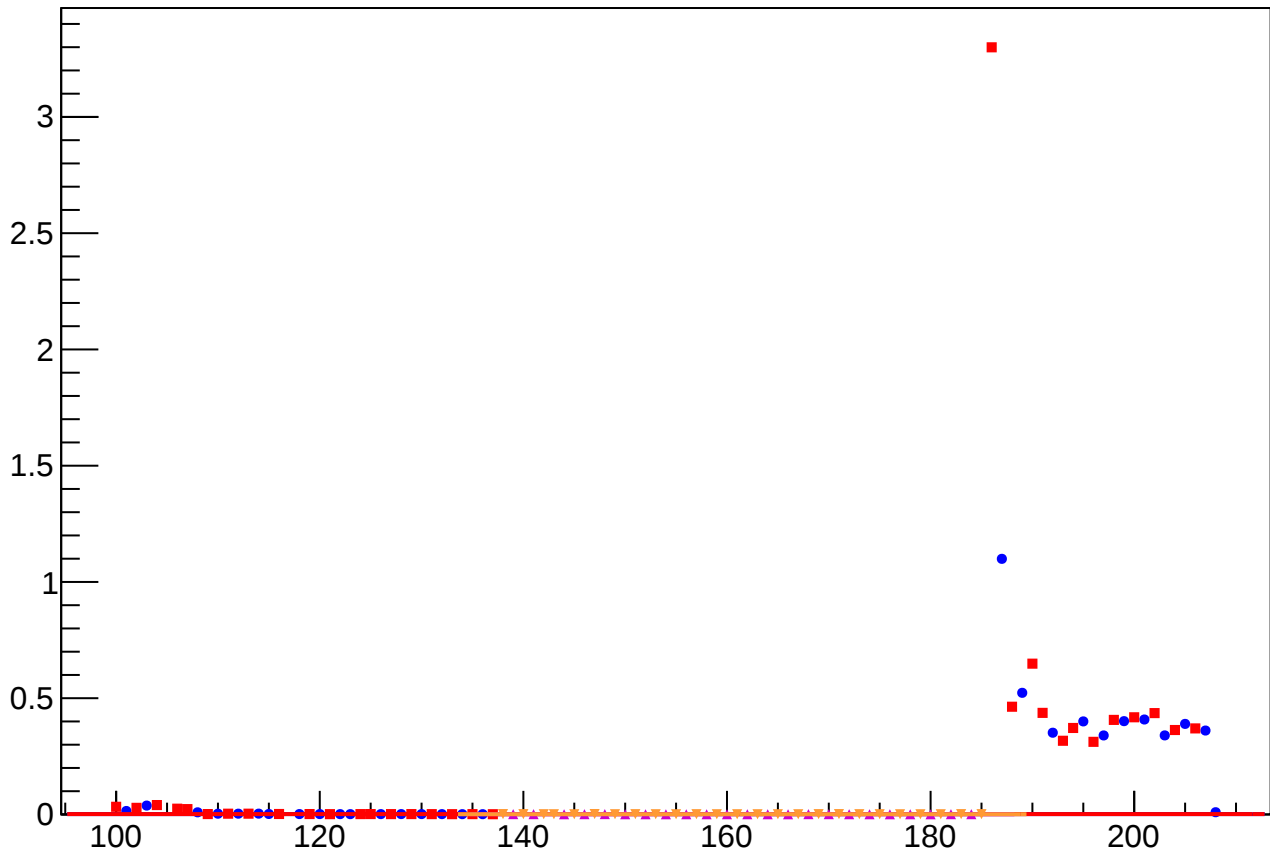
Right: -0.117+/-0.000 χ^2/NDF : 141522791505.0/58

In: -0.121+/-0.000 χ^2/NDF : 73171734063.3/50

Out: -0.121+/-0.000 χ^2/NDF : 68515652800.5/55

All: -0.121+/-0.000 χ^2/NDF : 141687408178.3

yield_cav4cY_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 16939731.4/27

Left Out: 0.001+/-0.000 χ^2/NDF :1363316.8/24

Right Out: 0.002+/-0.000 χ^2/NDF : 18510045.9/30

Left In: 0.001+/-0.000 χ^2/NDF :970801.8/22

Left: 0.001+/-0.000 χ^2/NDF : 2335161.7/47

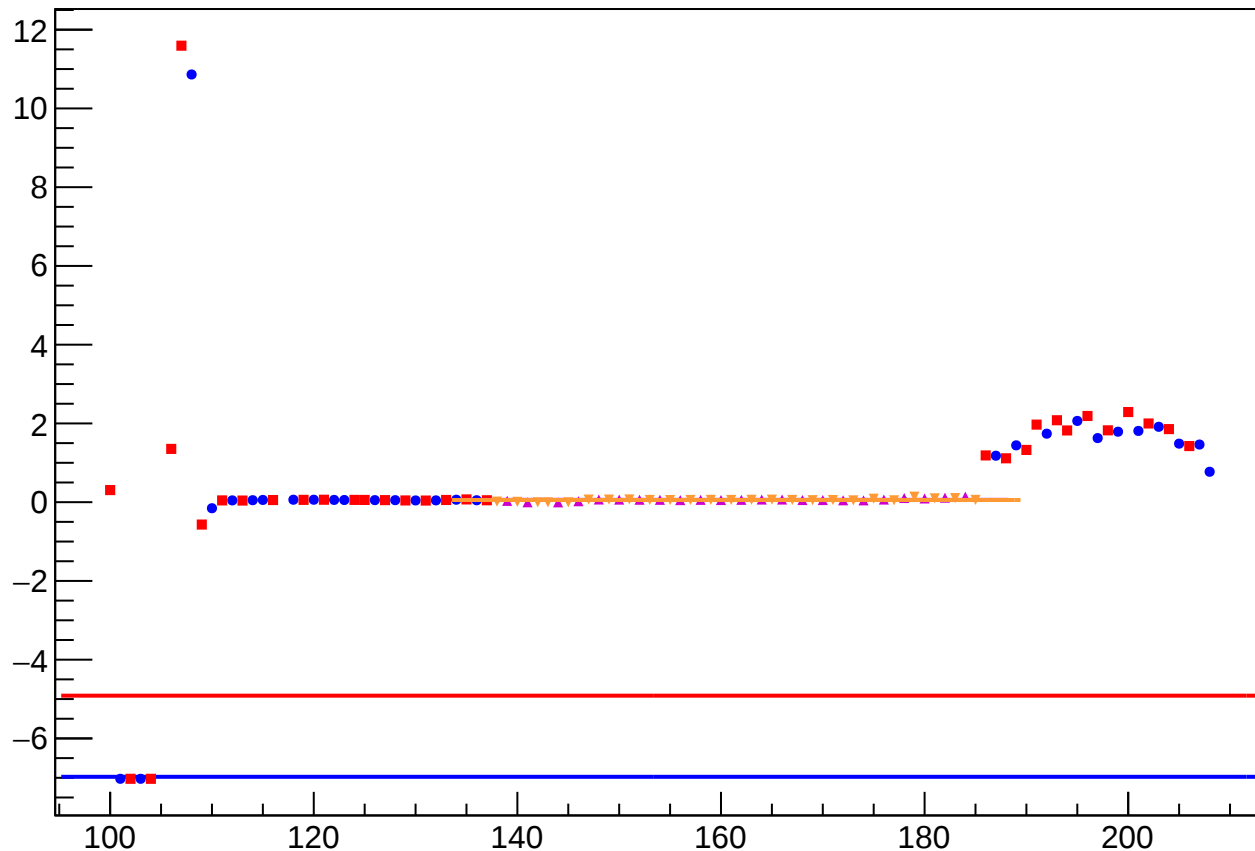
Right: 0.002+/-0.000 χ^2/NDF : 35451856.2/58

In: 0.001+/-0.000 χ^2/NDF :19193755.6/50

Out: 0.001+/-0.000 χ^2/NDF :21055646.8/55

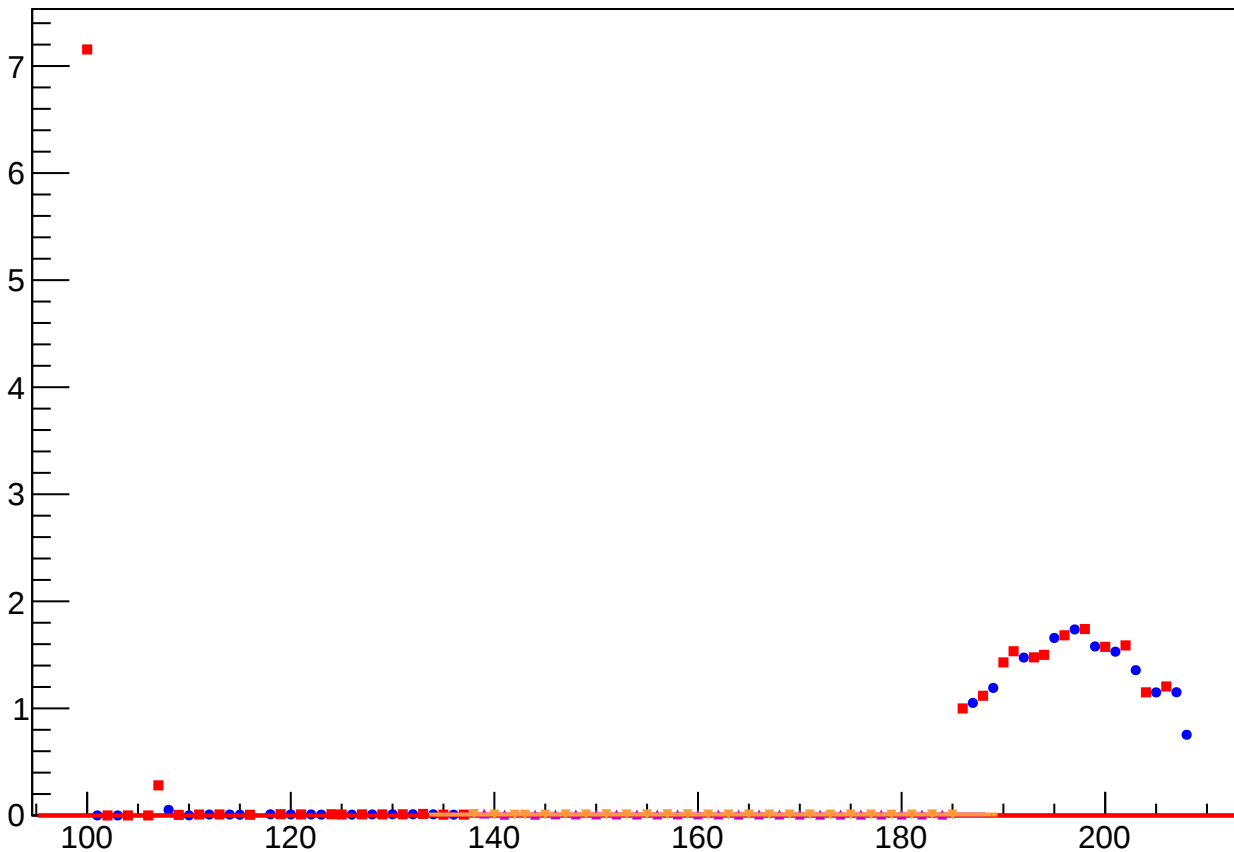
All: 0.001+/-0.000 χ^2/NDF : 40253328.5/106

yield_cav4dX_mean vs Slug, Sign Corrected



Right In: -6.975 ± 0.000 $\chi^2/\text{NDF}: 8797691932676.1/27$ Left: 0.057 ± 0.000 $\chi^2/\text{NDF}: 423736513.4/47$
 Left Out: 0.055 ± 0.000 $\chi^2/\text{NDF}: 243682351.4/24$ Right: -5.900 ± 0.000 $\chi^2/\text{NDF}: 430333762113636.1$
 Right Out: -4.914 ± 0.000 $\chi^2/\text{NDF}: 365352838958624.2/30$ In: -6.926 ± 0.000 $\chi^2/\text{NDF}: 17553208516738.9/50$
 Left In: 0.059 ± 0.000 $\chi^2/\text{NDF}: 178541521.9/22$ Out: -4.879 ± 0.000 $\chi^2/\text{NDF}: 370165401777381.2/$
 All: -5.858 ± 0.000 $\chi^2/\text{NDF}: 4435290510491$

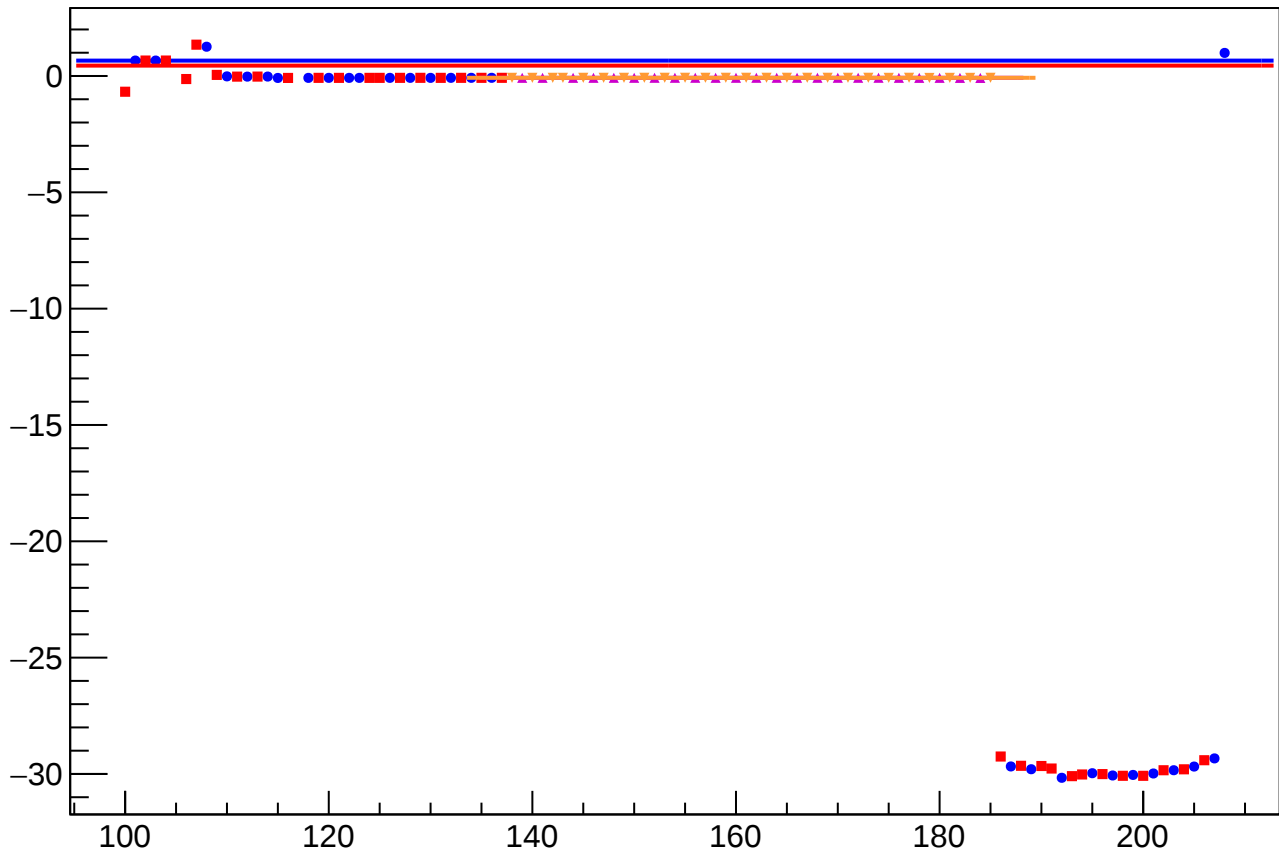
yield_cav4dX_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 23414474.2/27
 Left Out: 0.009+/-0.000 χ^2/NDF : 514432.8/24
 Right Out: 0.000+/-0.000 χ^2/NDF : 24348700.8/30
 Left In: 0.009+/-0.000 χ^2/NDF : 602517.2/22

Left: 0.009+/-0.000 χ^2/NDF : 1122225.0/47
 Right: 0.000+/-0.000 χ^2/NDF : 47763530.5/58
 In: 0.000+/-0.000 χ^2/NDF : 50832053.2/50
 Out: 0.000+/-0.000 χ^2/NDF : 53292650.3/55
 All: 0.000+/-0.000 χ^2/NDF : 104125176.9/100

yield_cav4dY_mean vs Slug, Sign Corrected



Right In: 0.661+/-0.000

χ^2/NDF : 5719778964147.2/27

Left: -0.078+/-0.000

χ^2/NDF : 267206251.1/47

Left Out: -0.078+/-0.000

χ^2/NDF : 156404795.7/24

Right: 0.549+/-0.000

χ^2/NDF : 474123982815002.2/27

Right Out: 0.446+/-0.000

χ^2/NDF : 405490492449847.8/30

In: 0.647+/-0.000

χ^2/NDF : 33760507012842.9/50

Out: 0.436+/-0.000

χ^2/NDF : 420651569717103.6/50

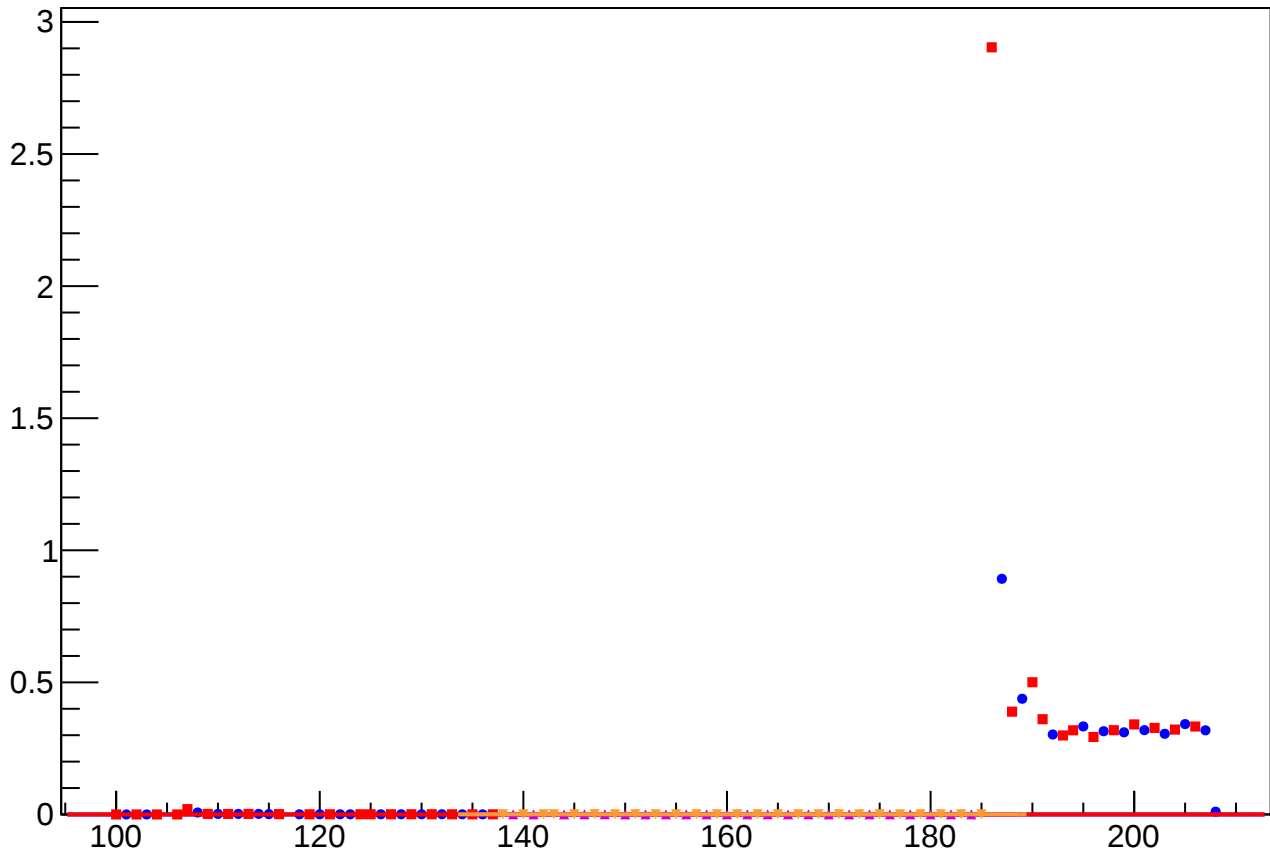
Left In: -0.077+/-0.000

χ^2/NDF : 110762924.1/22

All: 0.537+/-0.000

χ^2/NDF : 5159684231111.1/111

yield_cav4dY_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 24842362.8/27

Left Out: 0.001+/-0.000 χ^2/NDF :465981.8/24

Right Out: 0.000+/-0.000 χ^2/NDF : 24886158.2/30

Left In: 0.001+/-0.000 χ^2/NDF :355509.7/22

Left: 0.001+/-0.000 χ^2/NDF : 822503.5/47

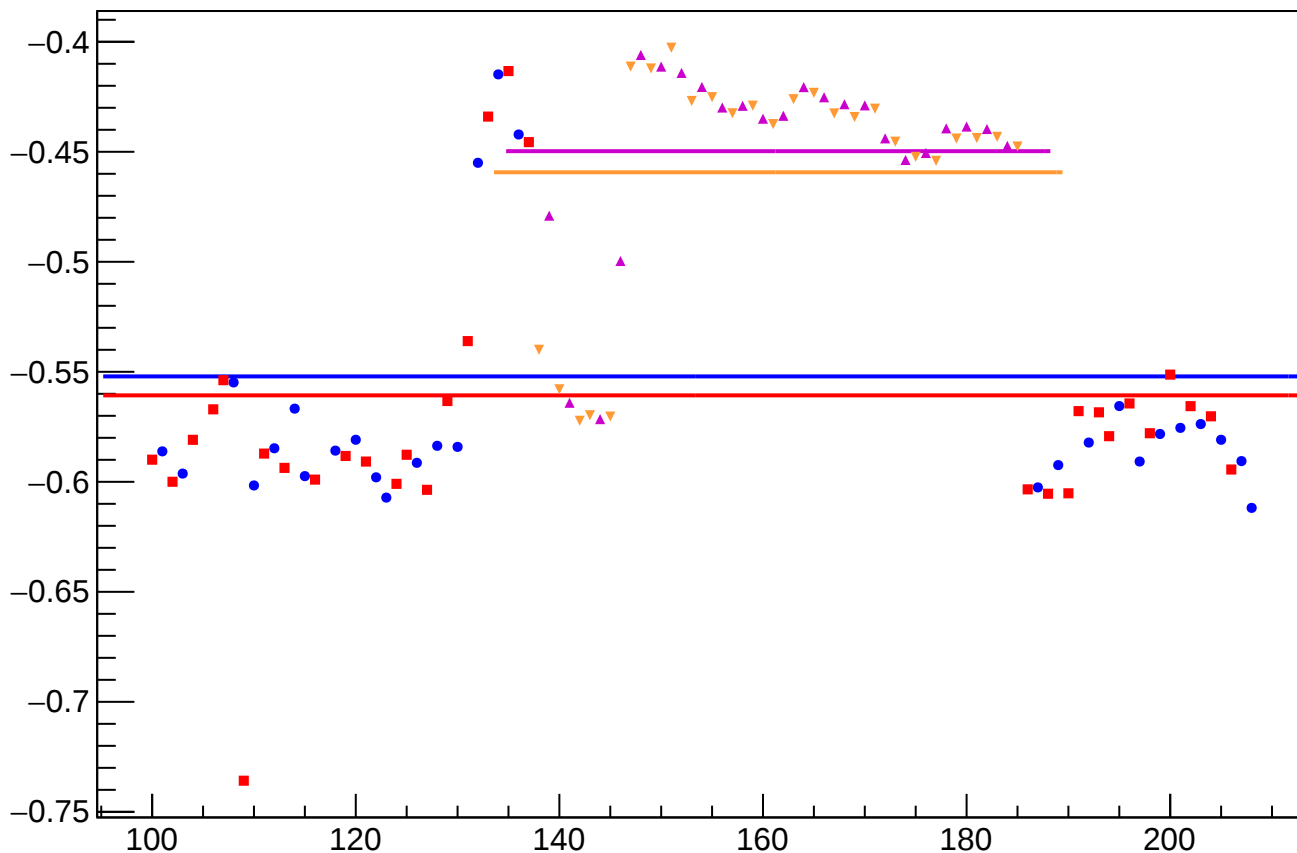
Right: 0.000+/-0.000 χ^2/NDF : 49728546.5/58

In: 0.000+/-0.000 χ^2/NDF :55572280.0/50

Out: 0.000+/-0.000 χ^2/NDF :57507259.7/55

All: 0.000+/-0.000 χ^2/NDF : 113079916.5/106

yield_bpm4aX_mean vs Slug, Sign Corrected



Right In: -0.552+/-0.000 χ^2/NDF : 49388432.0/27

Left Out: -0.459+/-0.000 χ^2/NDF : 113602161.0/24

Right Out: -0.561+/-0.000 χ^2/NDF : 65999245.2/30

Left In: -0.450+/-0.000 χ^2/NDF : 76117957.8/22

Left: -0.455+/-0.000 χ^2/NDF : 191493218.8/47

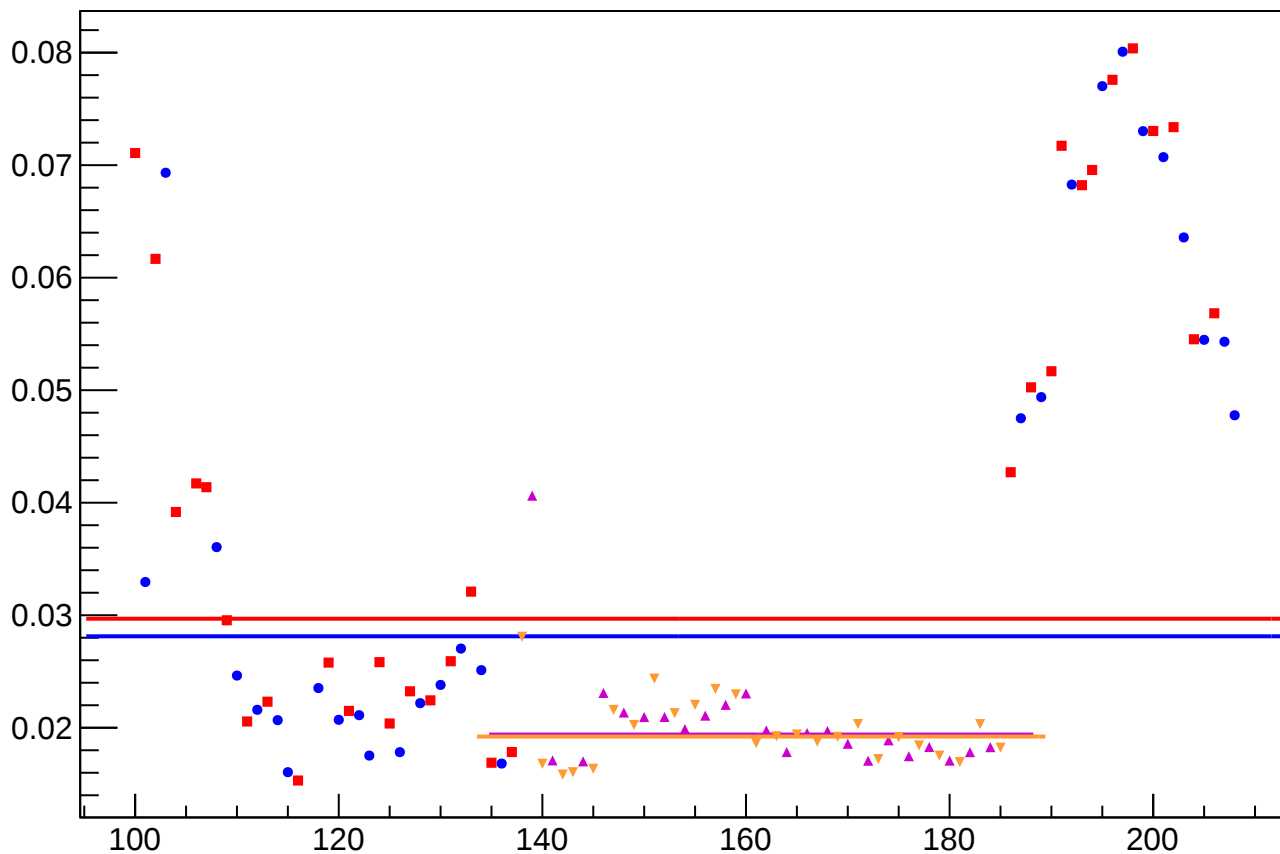
Right: -0.556+/-0.000 χ^2/NDF : 115839869.0/58

In: -0.476+/-0.000 χ^2/NDF : 223541299.6/50

Out: -0.482+/-0.000 χ^2/NDF : 273722514.6/55

All: -0.479+/-0.000 χ^2/NDF : 498465698.4/10

yield_bpm4aX_rms vs Slug, Sign Corrected



Right In: 0.028 $\pm$ 0.000 χ^2/NDF : 6424984.7/27

Left Out: 0.019 $\pm$ 0.000 χ^2/NDF : 501711.6/24

Right Out: 0.030 $\pm$ 0.000 χ^2/NDF : 6446511.5/30

Left In: 0.019 $\pm$ 0.000 χ^2/NDF : 626443.5/22

Left: 0.019 $\pm$ 0.000 χ^2/NDF : 1129330.7/47

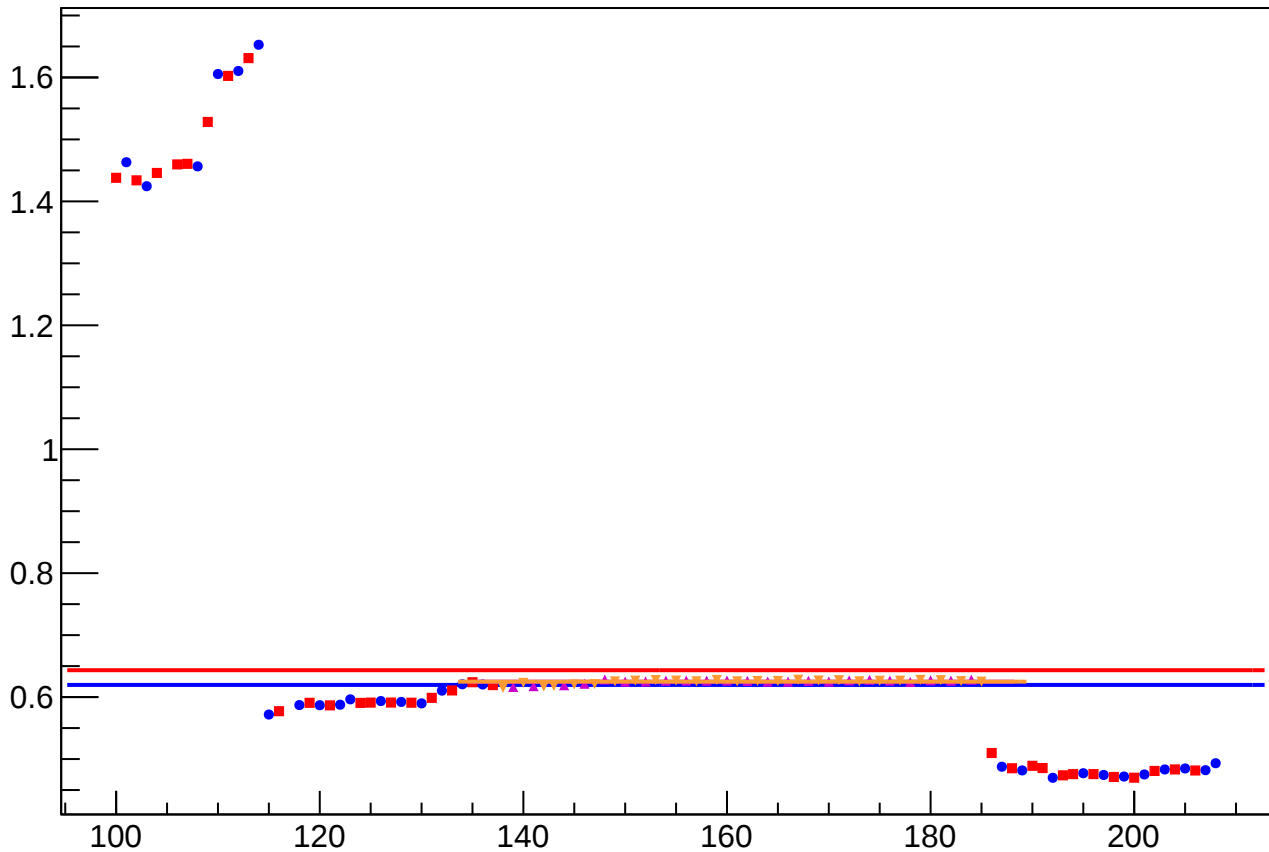
Right: 0.029 $\pm$ 0.000 χ^2/NDF : 12901207.8/58

In: 0.022 $\pm$ 0.000 χ^2/NDF : 8478743.9/50

Out: 0.022 $\pm$ 0.000 χ^2/NDF : 8955639.4/55

All: 0.022 $\pm$ 0.000 χ^2/NDF : 17434387.5/106

yield_bpm4aY_mean vs Slug, Sign Corrected



Right In: 0.620 $\pm$ 0.000 χ^2/NDF : 5073804265.9/27

Left Out: 0.625 $\pm$ 0.000 χ^2/NDF :1445169.1/24

Right Out: 0.643 $\pm$ 0.000 χ^2/NDF : 6048670824.8/30

Left In: 0.625 $\pm$ 0.000 χ^2/NDF :1143954.1/22

Left: 0.625 $\pm$ 0.000 χ^2/NDF : 2589565.7/47

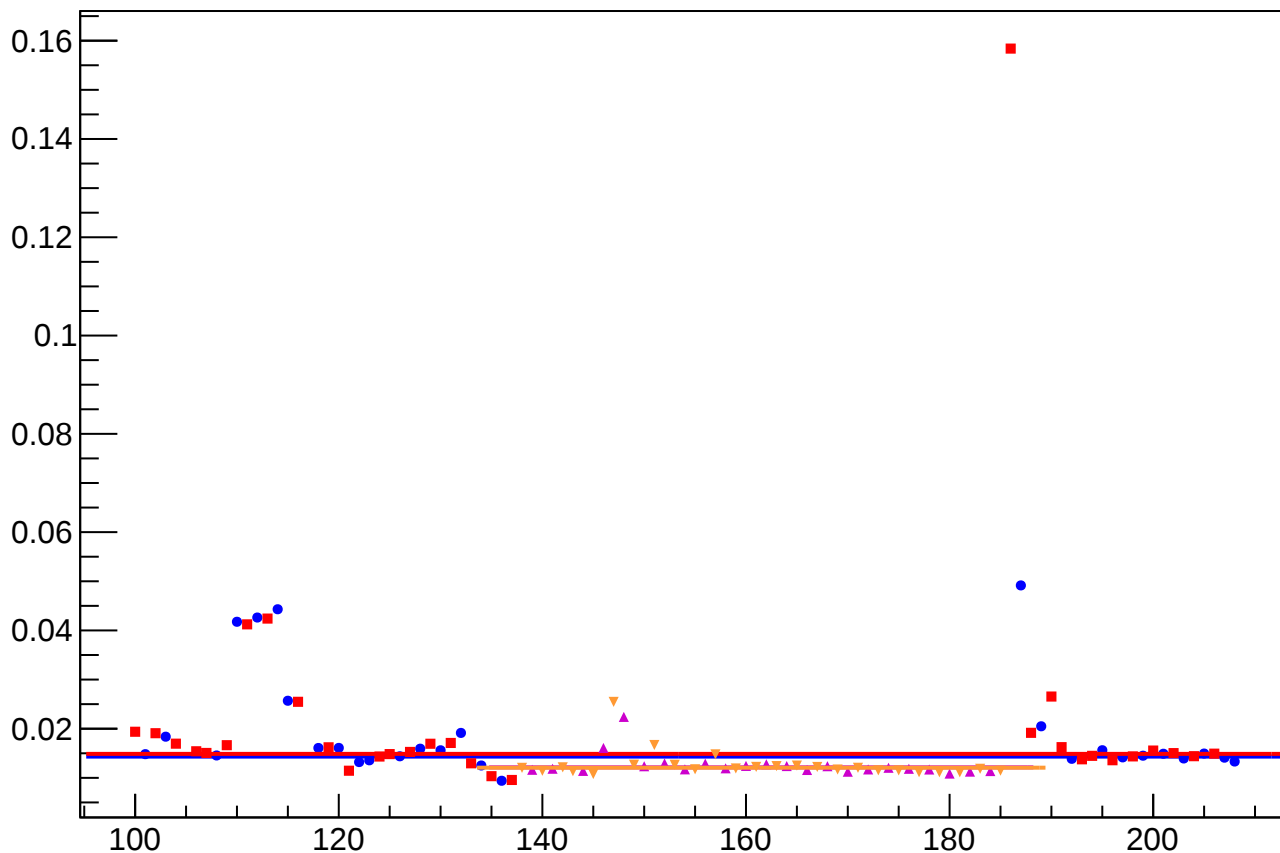
Right: 0.631 $\pm$ 0.000 χ^2/NDF : 11139797862.4/58

In: 0.623 $\pm$ 0.000 χ^2/NDF :5076038313.8/50

Out: 0.631 $\pm$ 0.000 χ^2/NDF :6063787538.7/55

All: 0.627 $\pm$ 0.000 χ^2/NDF : 11145624506.6/1

yield_bpm4aY_rms vs Slug, Sign Corrected



Right In: 0.014 $\pm$ 0.000 χ^2 /NDF: 1648043.3/27

Left Out: 0.012 $\pm$ 0.000 χ^2 /NDF:657199.9/24

Right Out: 0.015 $\pm$ 0.000 χ^2 /NDF: 2079154.5/30

Left In: 0.012 $\pm$ 0.000 χ^2 /NDF:488363.6/22

Left: 0.012 $\pm$ 0.000 χ^2 /NDF: 1146061.0/47

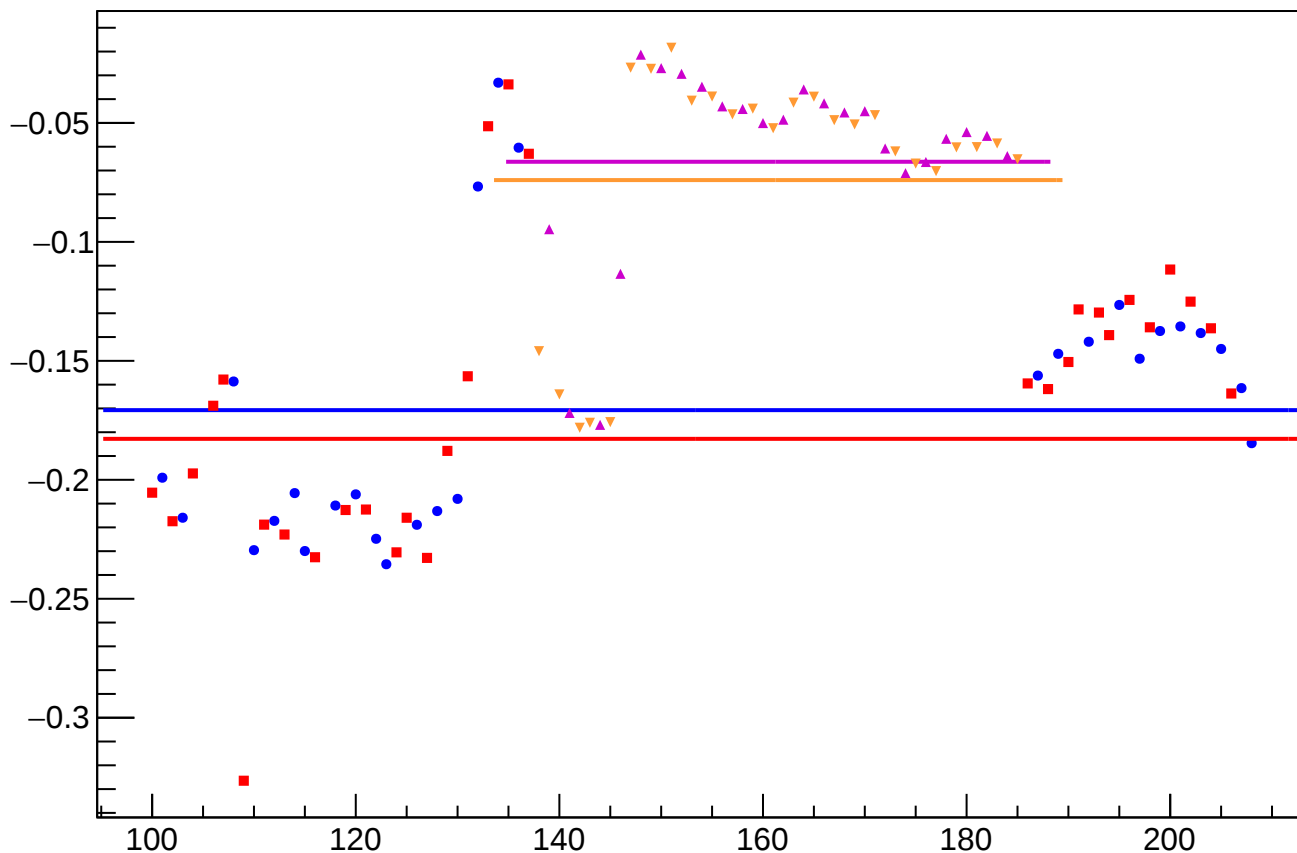
Right: 0.015 $\pm$ 0.000 χ^2 /NDF: 3745869.0/58

In: 0.013 $\pm$ 0.000 χ^2 /NDF:2525611.5/50

Out: 0.013 $\pm$ 0.000 χ^2 /NDF:3368290.1/55

All: 0.013 $\pm$ 0.000 χ^2 /NDF: 5895069.8/106

yield_bpm4eX_mean vs Slug, Sign Corrected



Right In: -0.171+/-0.000 χ^2/NDF : 68417026.8/27

Left Out: -0.074+/-0.000 χ^2/NDF : 107676601.9/24

Right Out: -0.183+/-0.000 χ^2/NDF : 86383098.2/30

Left In: -0.066+/-0.000 χ^2/NDF : 76243051.8/22

Left: -0.070+/-0.000 χ^2/NDF : 185076997.5/47

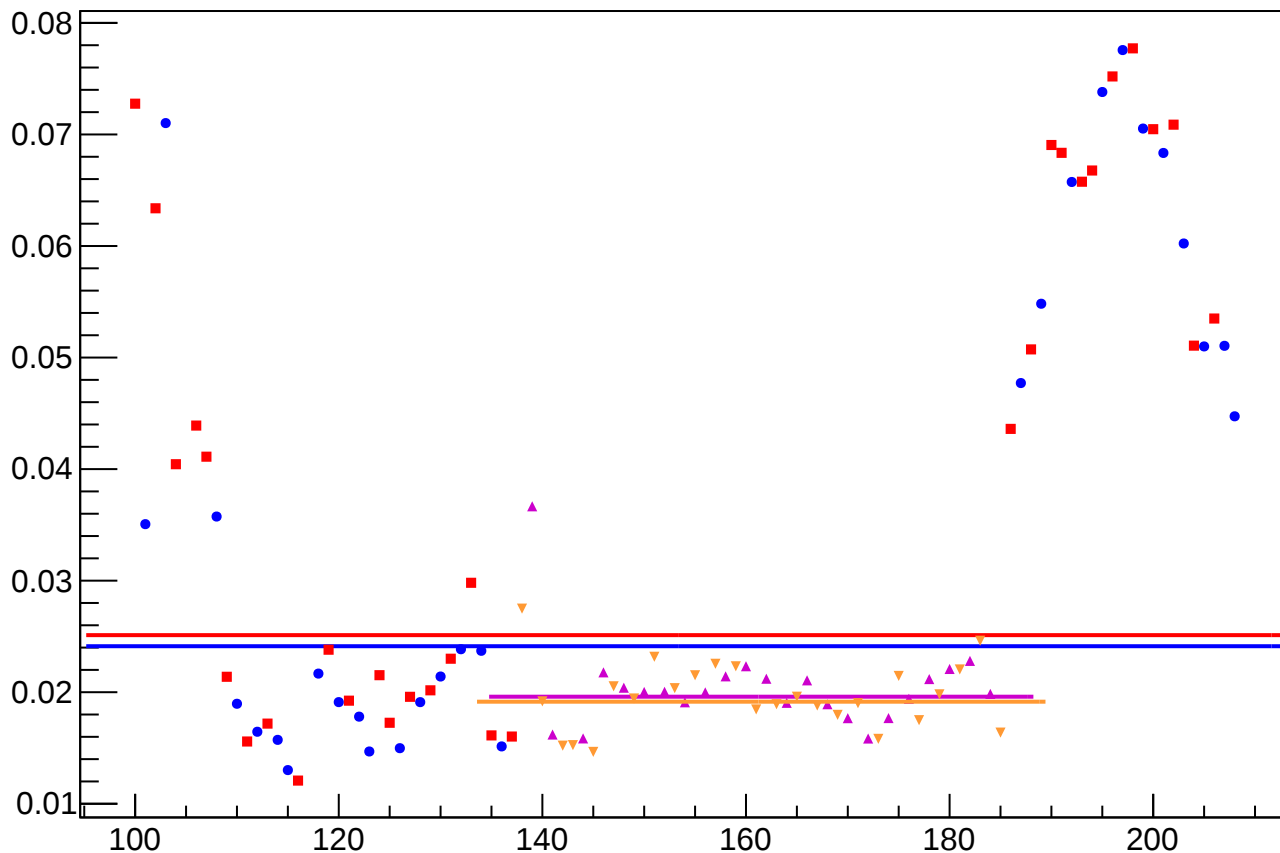
Right: -0.177+/-0.000 χ^2/NDF : 155951335.2/58

In: -0.098+/-0.000 χ^2/NDF : 267252054.7/50

Out: -0.104+/-0.000 χ^2/NDF : 327212380.6/55

All: -0.101+/-0.000 χ^2/NDF : 595401639.8/10

yield_bpm4eX_rms vs Slug, Sign Corrected



Right In: 0.024 $\pm$ 0.000 χ^2 /NDF: 7491218.4/27

Left Out: 0.019 $\pm$ 0.000 χ^2 /NDF: 641277.0/24

Right Out: 0.025 $\pm$ 0.000 χ^2 /NDF: 7838095.5/30

Left In: 0.020 $\pm$ 0.000 χ^2 /NDF: 623148.2/22

Left: 0.019 $\pm$ 0.000 χ^2 /NDF: 1272240.9/47

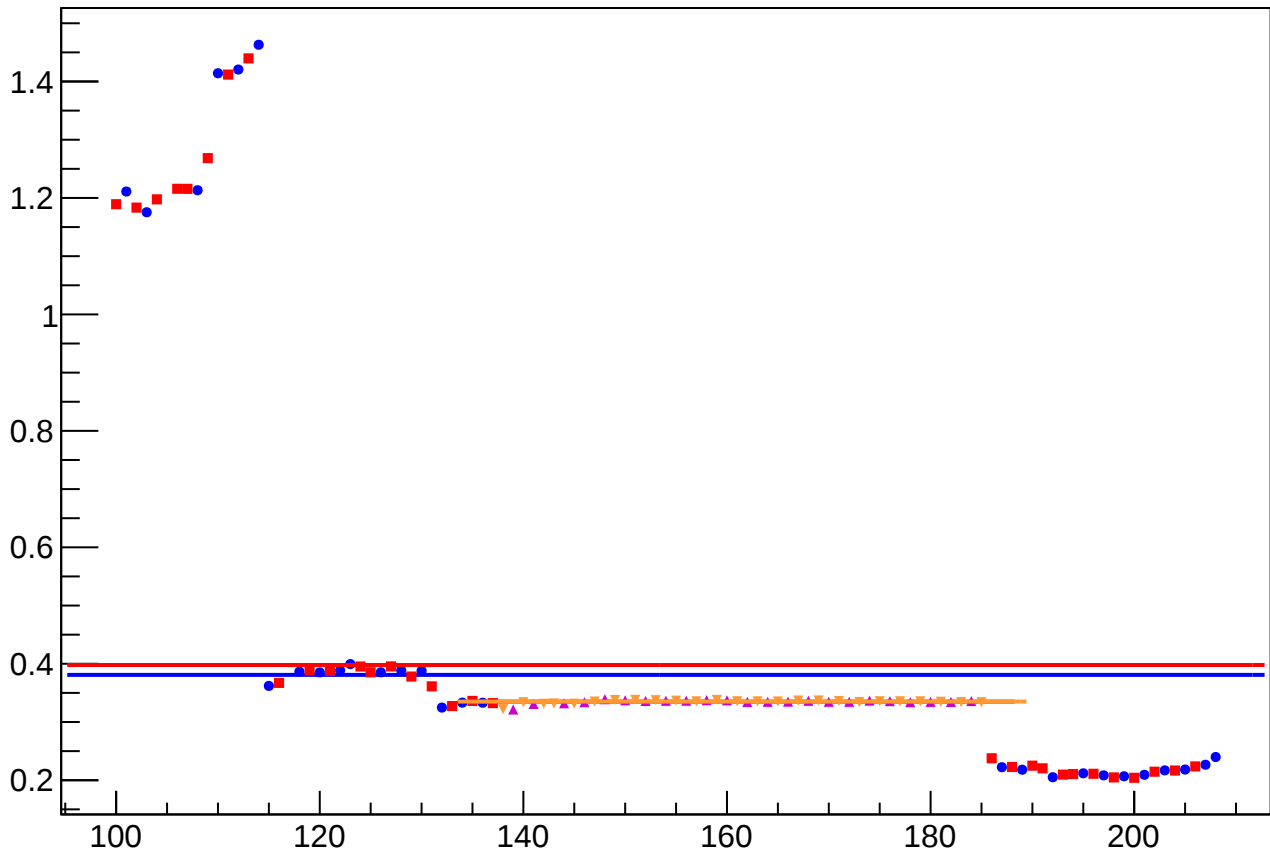
Right: 0.025 $\pm$ 0.000 χ^2 /NDF: 15344894.9/58

In: 0.021 $\pm$ 0.000 χ^2 /NDF: 8575148.2/50

Out: 0.021 $\pm$ 0.000 χ^2 /NDF: 9280662.6/55

All: 0.021 $\pm$ 0.000 χ^2 /NDF: 17857702.4/106

yield_bpm4eY_mean vs Slug, Sign Corrected



Right In: 0.381+/-0.000 χ^2/NDF : 7492037320.1/27

Left Out: 0.335+/-0.000 χ^2/NDF :1154310.3/24

Right Out: 0.398+/-0.000 χ^2/NDF : 8528846047.6/30

Left In: 0.335+/-0.000 χ^2/NDF :1202194.8/22

Left: 0.335+/-0.000 χ^2/NDF : 2356931.1/47

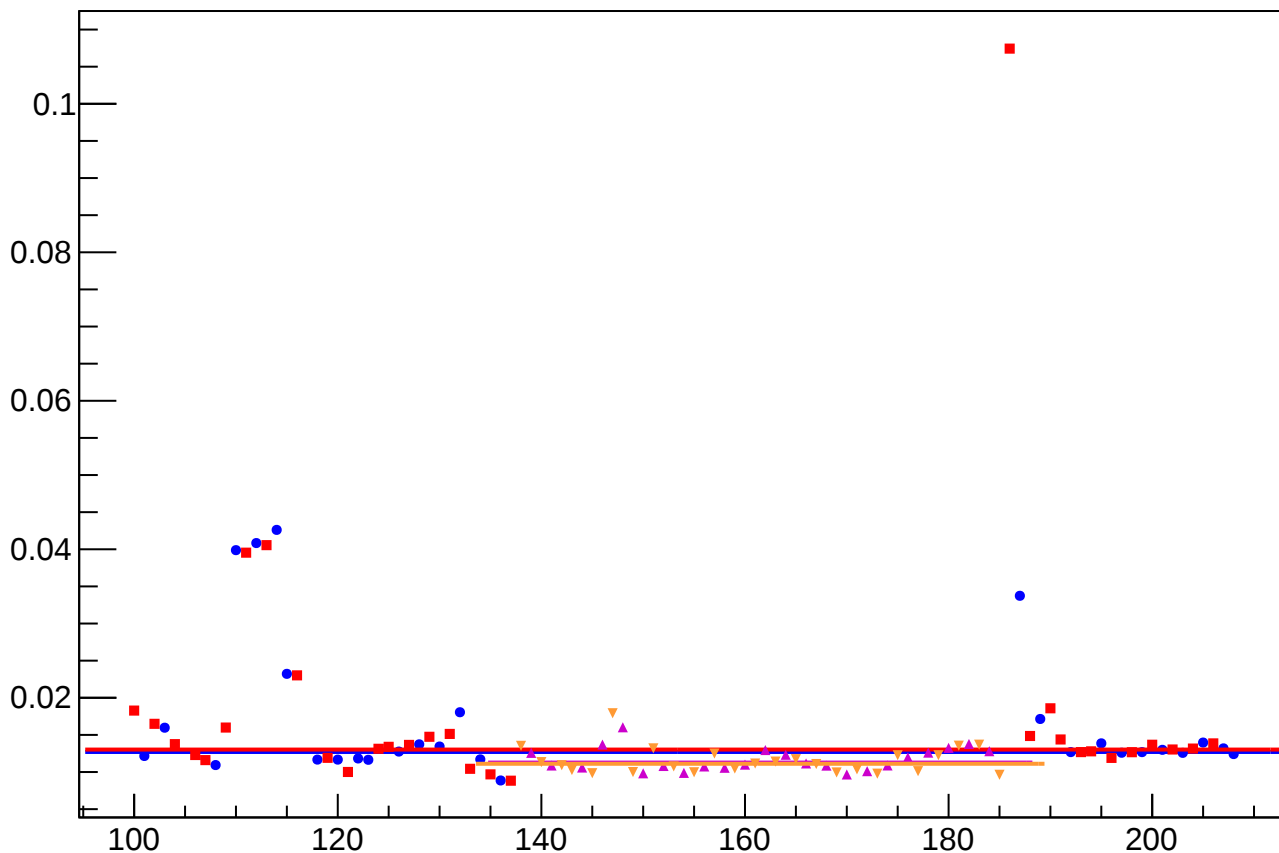
Right: 0.389+/-0.000 χ^2/NDF : 16032251646.0/58

In: 0.353+/-0.000 χ^2/NDF :7598034440.5/50

Out: 0.357+/-0.000 χ^2/NDF :8728257102.4/55

All: 0.355+/-0.000 χ^2/NDF : 16328795080.9/112

yield_bpm4eY_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 1525354.5/27

Left Out: 0.011+/-0.000 χ^2/NDF :607532.0/24

Right Out: 0.013+/-0.000 χ^2/NDF : 1944397.4/30

Left In: 0.011+/-0.000 χ^2/NDF :502455.5/22

Left: 0.011+/-0.000 χ^2/NDF : 1113465.5/47

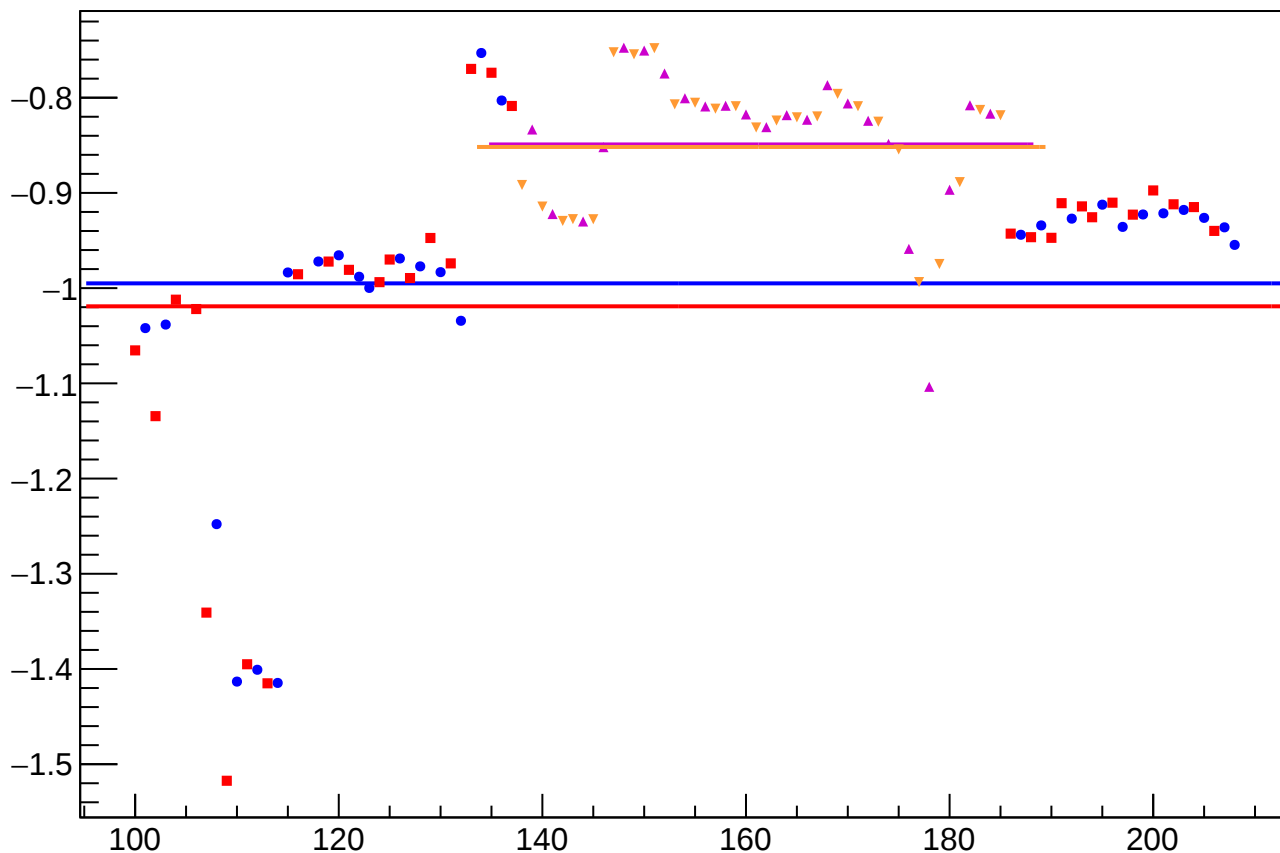
Right: 0.013+/-0.000 χ^2/NDF : 3478025.9/58

In: 0.012+/-0.000 χ^2/NDF :2230763.6/50

Out: 0.012+/-0.000 χ^2/NDF :2919887.3/55

All: 0.012+/-0.000 χ^2/NDF : 5150809.4/106

yield_bpm4acX_mean vs Slug, Sign Corrected



Right In: -0.995 ± 0.000 χ^2/NDF : 404129191.2/27

Left Out: -0.852 ± 0.000 χ^2/NDF : 189103962.4/24

Right Out: -1.019 ± 0.000 χ^2/NDF : 557820123.3/30

Left In: -0.849 ± 0.000 χ^2/NDF : 256391274.4/22

Left: -0.850 ± 0.000 χ^2/NDF : 445636655.2/47

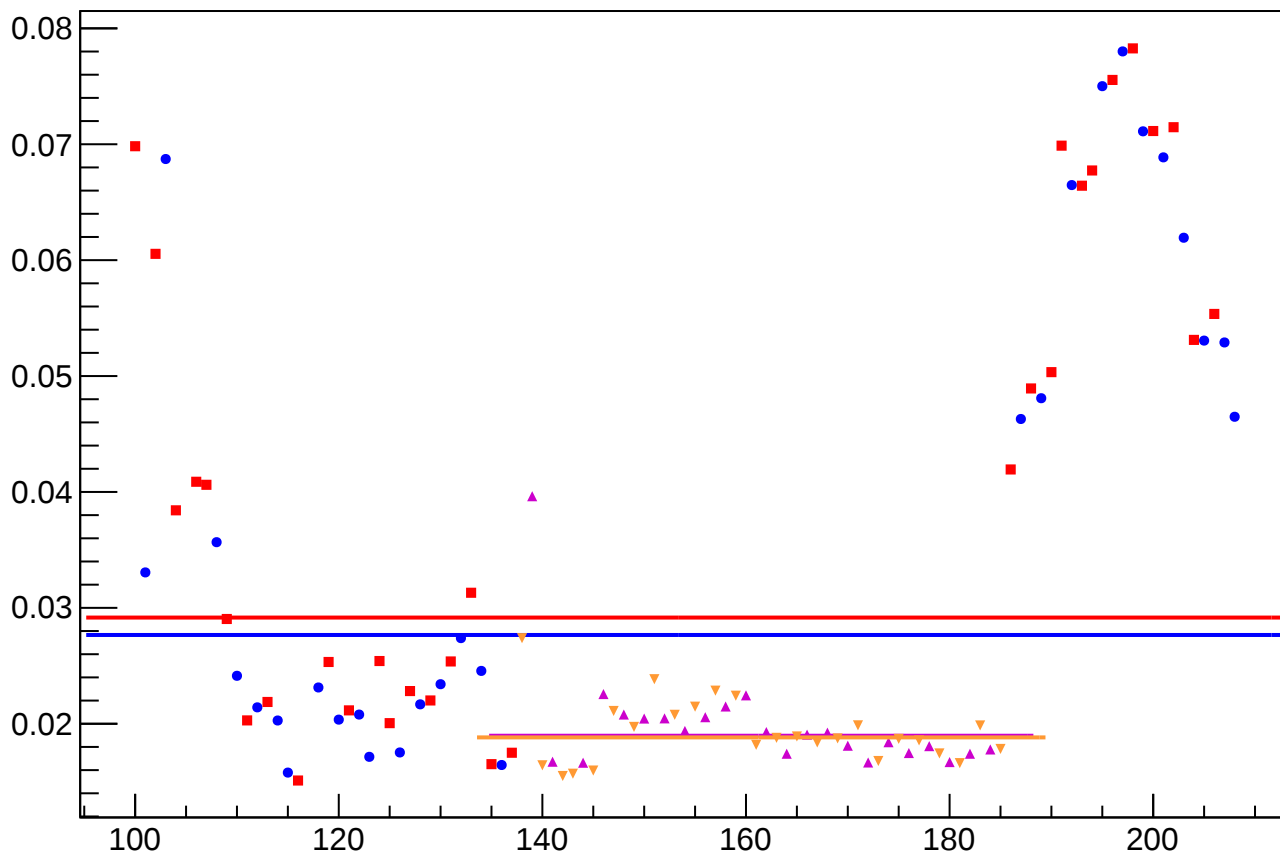
Right: -1.007 ± 0.000 χ^2/NDF : 965620026.9/58

In: -0.886 ± 0.000 χ^2/NDF : 867445597.2/50

Out: -0.890 ± 0.000 χ^2/NDF : 1013368510.6/55

All: -0.888 ± 0.000 χ^2/NDF : 1881269613.7/111

yield_bpm4acX_rms vs Slug, Sign Corrected



Right In: 0.028+/-0.000 χ^2/NDF : 6382084.7/27

Left Out: 0.019+/-0.000 χ^2/NDF :490509.4/24

Right Out: 0.029+/-0.000 χ^2/NDF : 6383170.3/30

Left In: 0.019+/-0.000 χ^2/NDF :615173.8/22

Left: 0.019+/-0.000 χ^2/NDF : 1106521.0/47

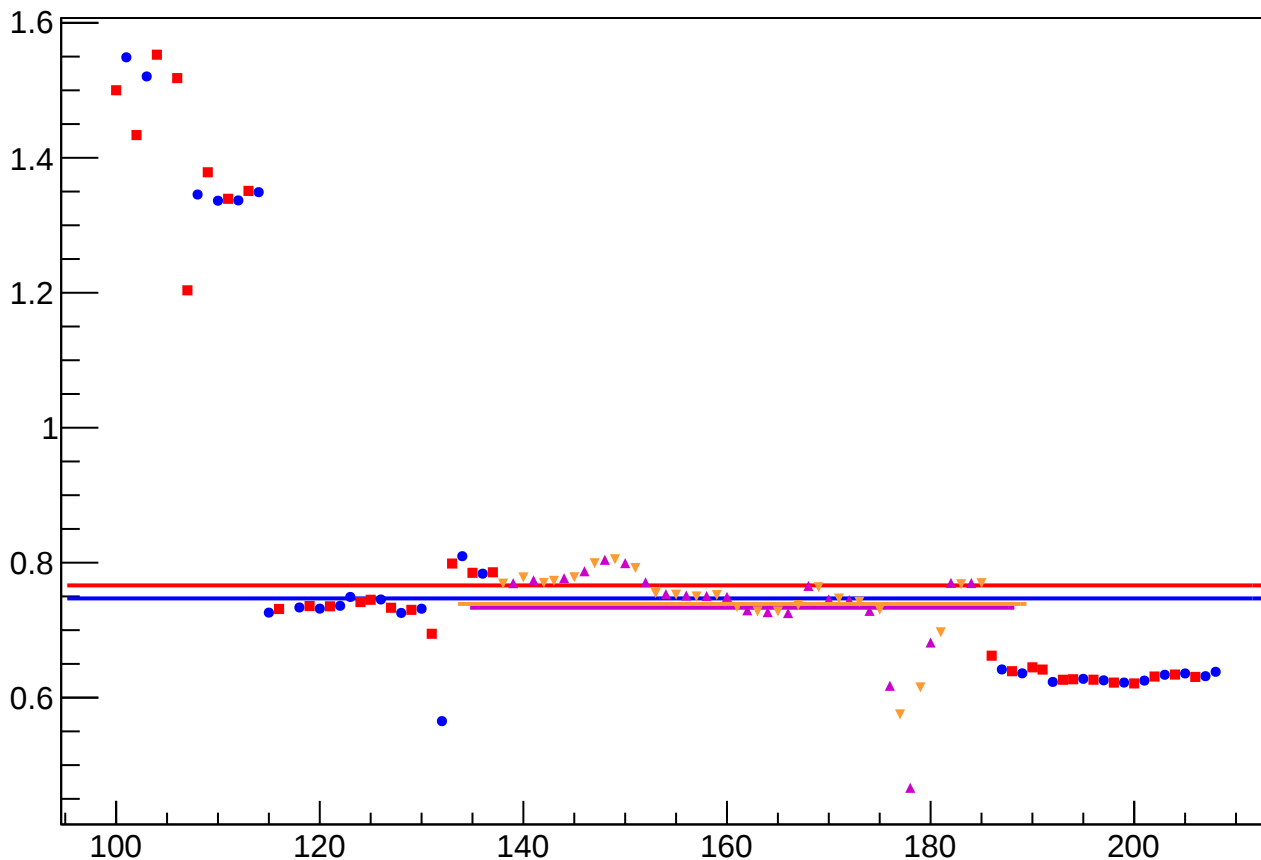
Right: 0.028+/-0.000 χ^2/NDF : 12793758.4/58

In: 0.021+/-0.000 χ^2/NDF :8466449.3/50

Out: 0.021+/-0.000 χ^2/NDF :8907646.8/55

All: 0.021+/-0.000 χ^2/NDF : 17374139.6/106

yield_bpm4acY_mean vs Slug, Sign Corrected



Right In: 0.747 $\pm$ 0.000 χ^2 /NDF: 3479864406.6/27

Left Out: 0.739 $\pm$ 0.000 χ^2 /NDF:333013236.5/24

Right Out: 0.766 $\pm$ 0.000 χ^2 /NDF: 3760876329.4/30

Left In: 0.733 $\pm$ 0.000 χ^2 /NDF:569611347.7/22

Left: 0.736 $\pm$ 0.000 χ^2 /NDF: 904456968.5/47

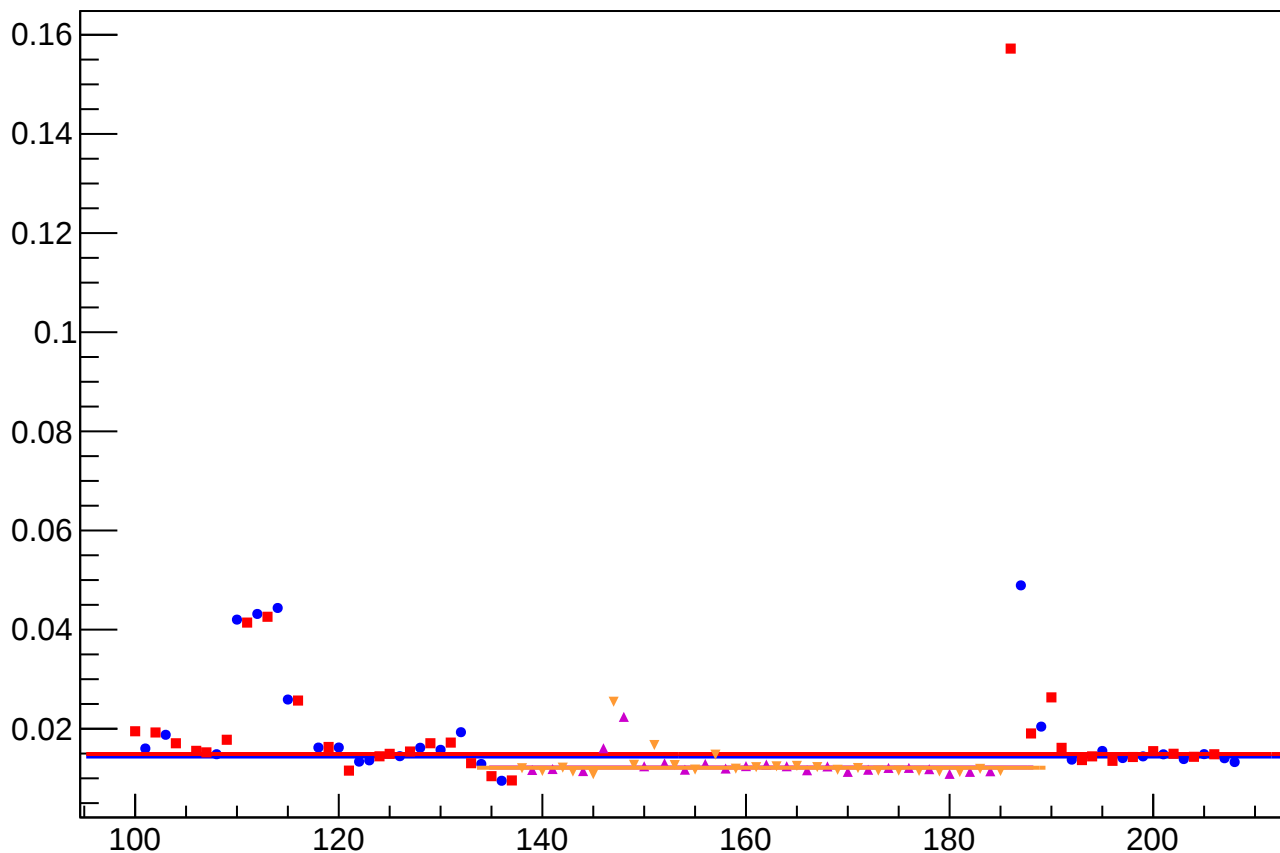
Right: 0.756 $\pm$ 0.000 χ^2 /NDF: 7252065016.3/58

In: 0.738 $\pm$ 0.000 χ^2 /NDF:4057123421.1/50

Out: 0.748 $\pm$ 0.000 χ^2 /NDF:4123877403.5/55

All: 0.743 $\pm$ 0.000 χ^2 /NDF: 8189555170.4/10

yield_bpm4acY_rms vs Slug, Sign Corrected



Right In: 0.014 $\pm$ 0.000 χ^2 /NDF: 1650610.7/27

Left Out: 0.012 $\pm$ 0.000 χ^2 /NDF:637986.2/24

Right Out: 0.015 $\pm$ 0.000 χ^2 /NDF: 2082931.2/30

Left In: 0.012 $\pm$ 0.000 χ^2 /NDF:481830.1/22

Left: 0.012 $\pm$ 0.000 χ^2 /NDF: 1120125.6/47

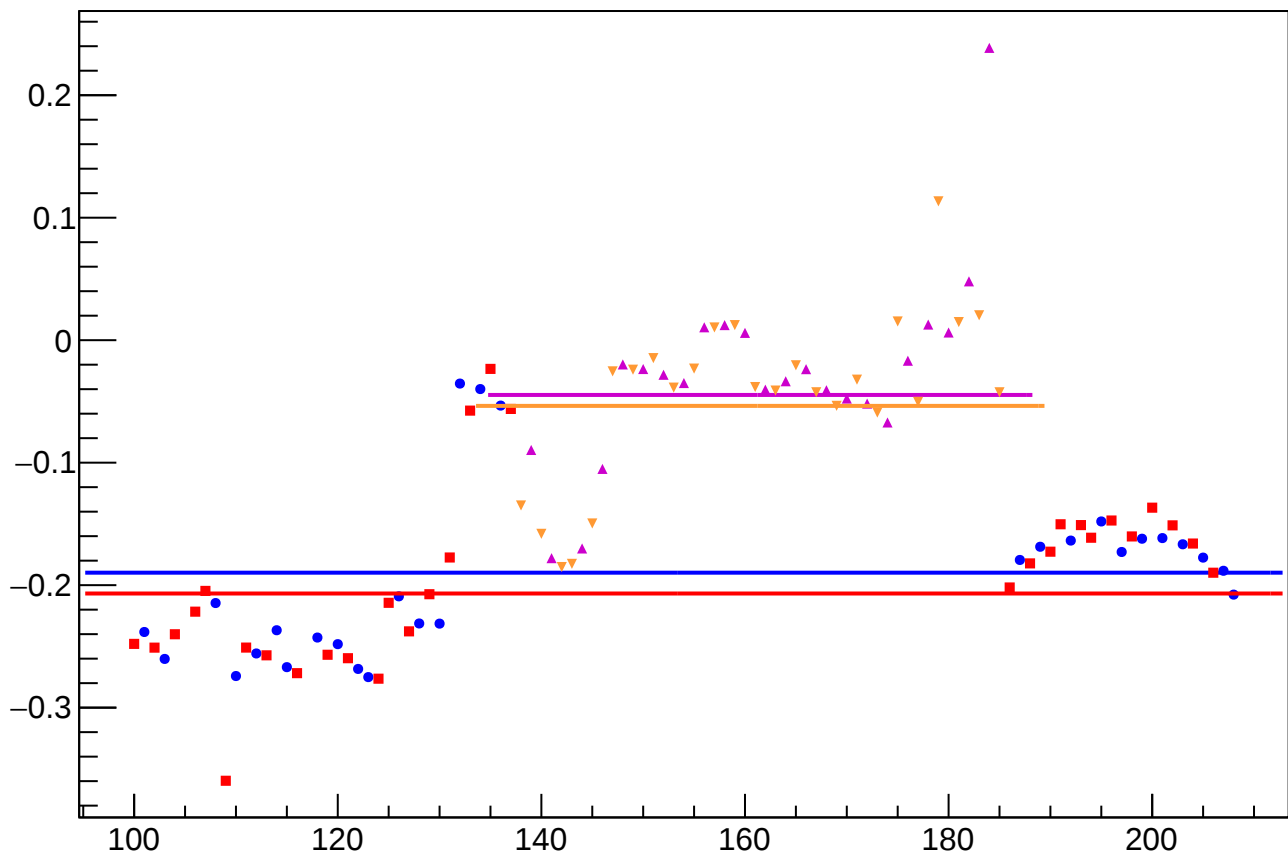
Right: 0.015 $\pm$ 0.000 χ^2 /NDF: 3749379.5/58

In: 0.013 $\pm$ 0.000 χ^2 /NDF:2522517.7/50

Out: 0.013 $\pm$ 0.000 χ^2 /NDF:3329969.3/55

All: 0.013 $\pm$ 0.000 χ^2 /NDF: 5853670.3/106

yield_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -0.190 ± 0.000 $\chi^2/\text{NDF}: 107260727.9/27$

Left Out: -0.054 ± 0.000 $\chi^2/\text{NDF}: 167834173.6/24$

Right Out: -0.207 ± 0.000 $\chi^2/\text{NDF}: 114680081.9/30$

Left In: -0.045 ± 0.000 $\chi^2/\text{NDF}: 127192425.2/22$

Left: -0.049 ± 0.000 $\chi^2/\text{NDF}: 296566503.6/47$

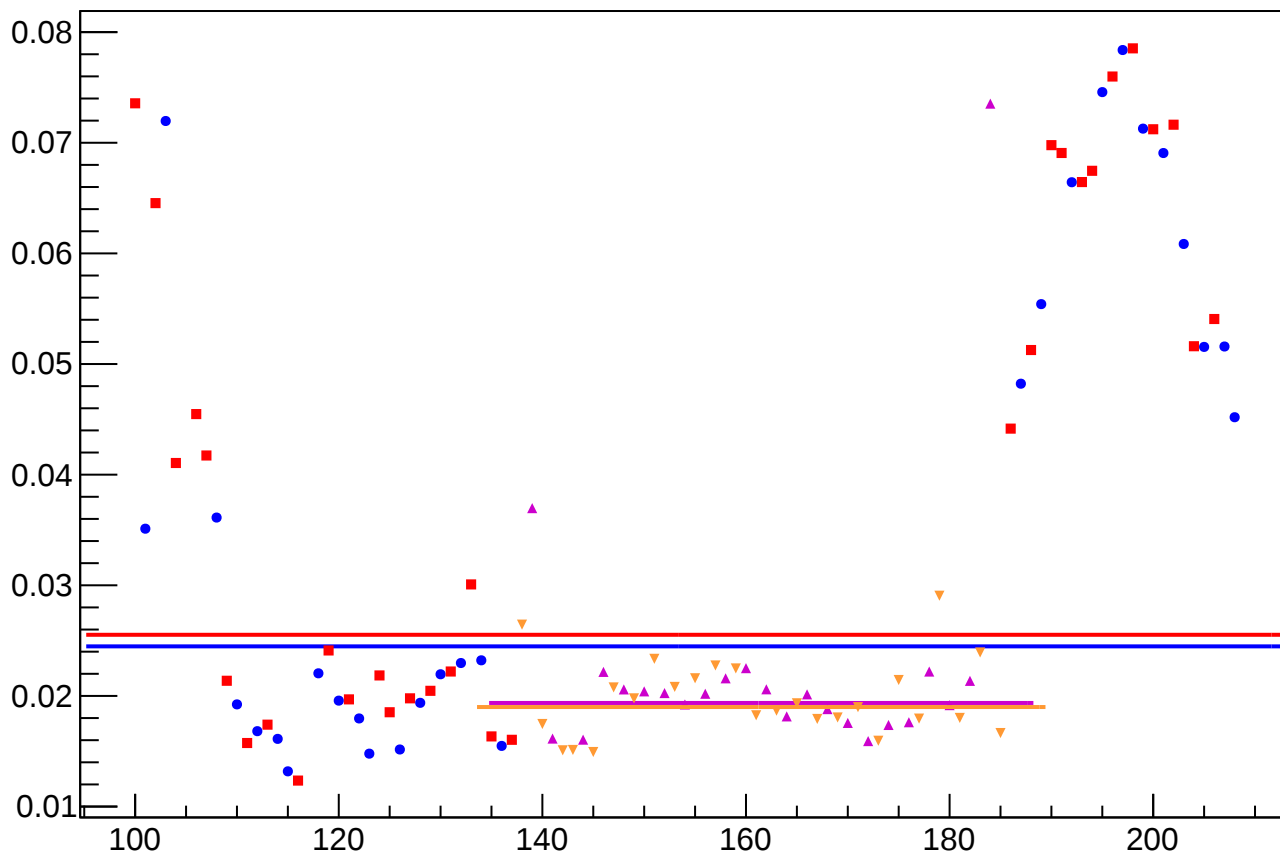
Right: -0.198 ± 0.000 $\chi^2/\text{NDF}: 224161268.3/58$

In: -0.088 ± 0.000 $\chi^2/\text{NDF}: 466490791.2/50$

Out: -0.095 ± 0.000 $\chi^2/\text{NDF}: 539561365.8/55$

All: -0.092 ± 0.000 $\chi^2/\text{NDF}: 1007412420.8/1$

yield_bpm4ecX_rms vs Slug, Sign Corrected



Right In: 0.024 $\pm$ 0.000 χ^2 /NDF: 7433472.8/27

Left Out: 0.019 $\pm$ 0.000 χ^2 /NDF:700229.7/24

Right Out: 0.026 $\pm$ 0.000 χ^2 /NDF: 7790861.9/30

Left In: 0.019 $\pm$ 0.000 χ^2 /NDF:858216.8/22

Left: 0.019 $\pm$ 0.000 χ^2 /NDF: 1563699.1/47

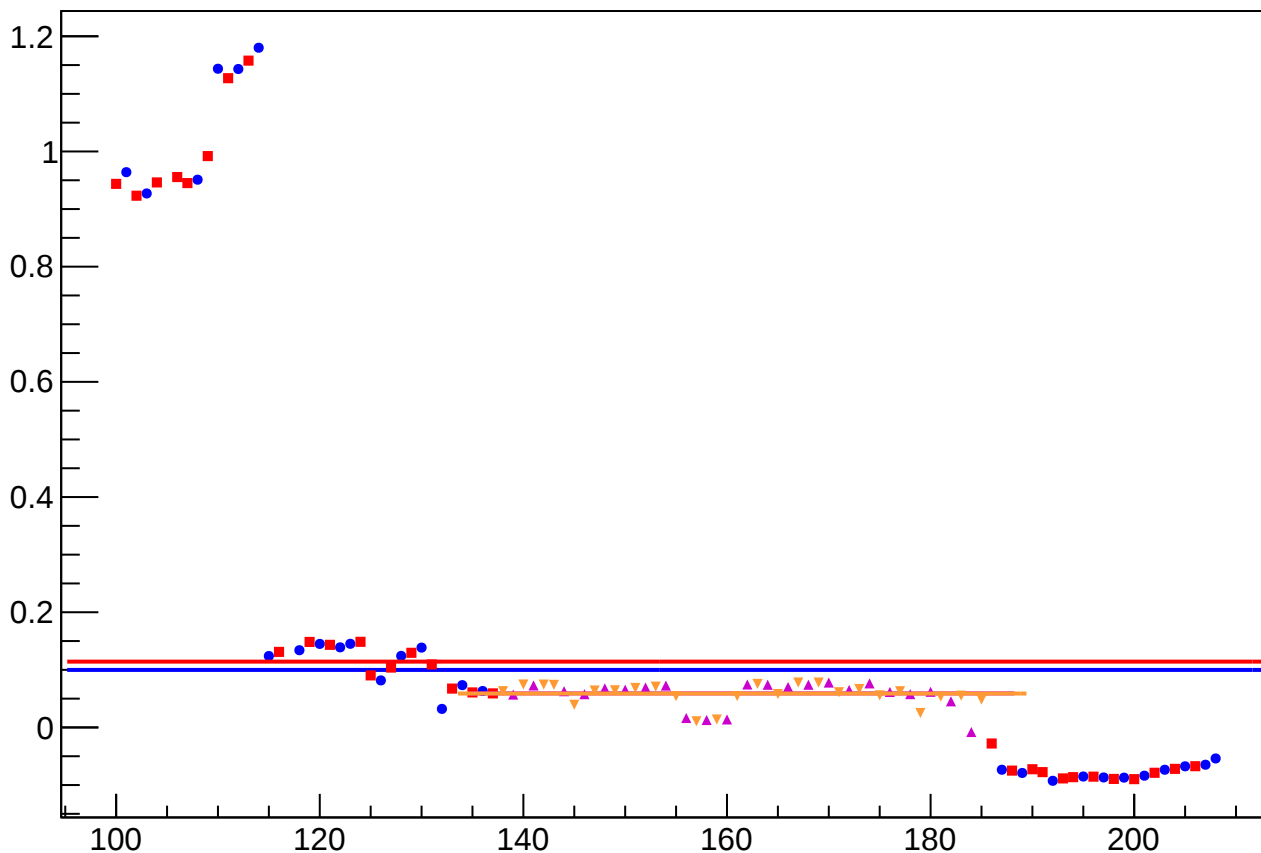
Right: 0.025 $\pm$ 0.000 χ^2 /NDF: 15241146.7/58

In: 0.021 $\pm$ 0.000 χ^2 /NDF:8868459.2/50

Out: 0.021 $\pm$ 0.000 χ^2 /NDF:9425531.7/55

All: 0.021 $\pm$ 0.000 χ^2 /NDF: 18294868.2/106

yield_bpm4ecY_mean vs Slug, Sign Corrected



Right In: 0.100 $\pm$ 0.000

χ^2/NDF : 8093261863.7/27

Left: 0.059 $\pm$ 0.000 χ^2/NDF : 105343775.2/47

Right: 0.107 $\pm$ 0.000 χ^2/NDF : 17085717728.3/58

Left Out: 0.059 $\pm$ 0.000

χ^2/NDF : 46821236.8/24

In: 0.074 $\pm$ 0.000 χ^2/NDF : 8236832098.9/50

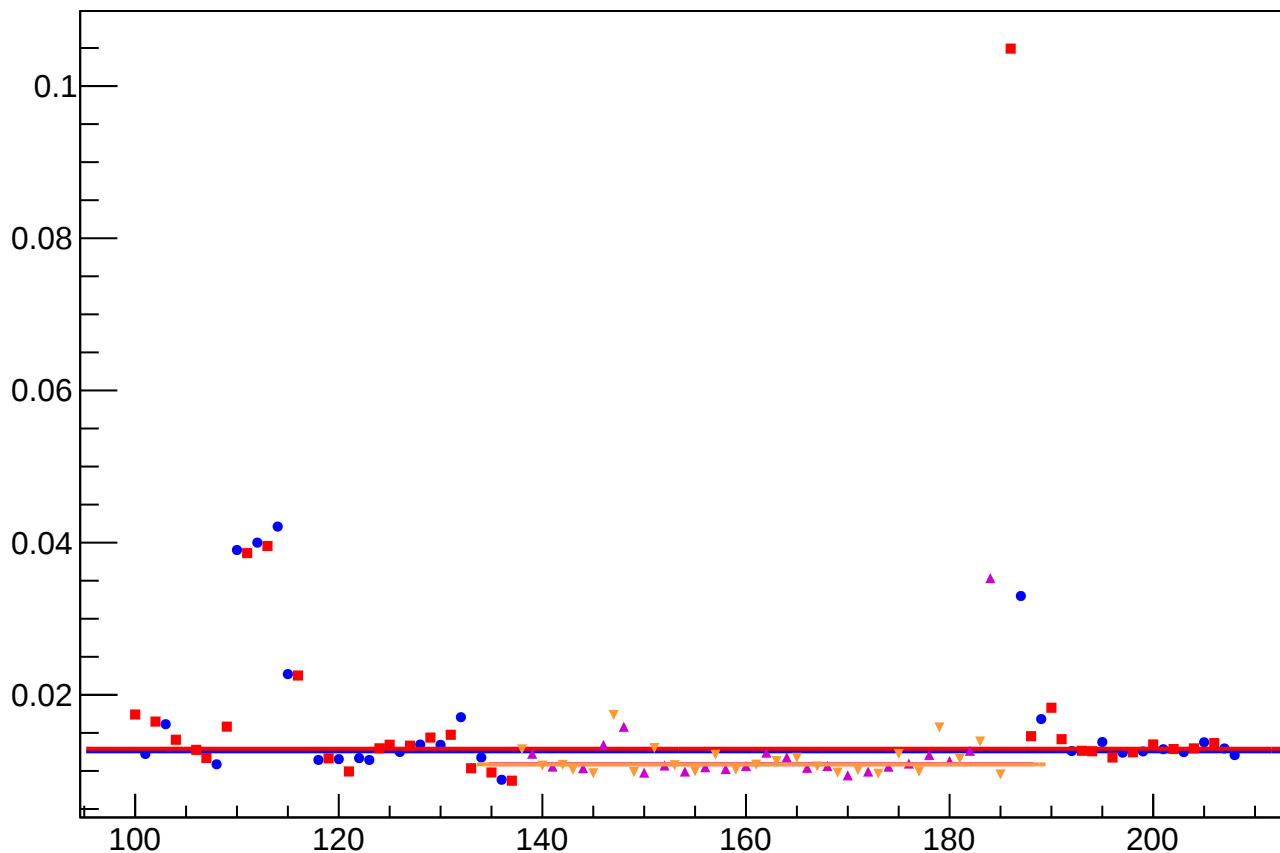
Right Out: 0.114 $\pm$ 0.000 χ^2/NDF : 8984057615.2/30

Out: 0.079 $\pm$ 0.000 χ^2/NDF : 9187965293.1/55

Left In: 0.059 $\pm$ 0.000 χ^2/NDF : 58518655.0/22

All: 0.077 $\pm$ 0.000 χ^2/NDF : 17426649953.8/1

yield_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 0.013 $\pm$ 0.000 χ^2 /NDF: 1490648.8/27

Left Out: 0.011 $\pm$ 0.000 χ^2 /NDF:604787.9/24

Right Out: 0.013 $\pm$ 0.000 χ^2 /NDF: 1898427.4/30

Left In: 0.011 $\pm$ 0.000 χ^2 /NDF:530077.5/22

Left: 0.011 $\pm$ 0.000 χ^2 /NDF: 1134994.9/47

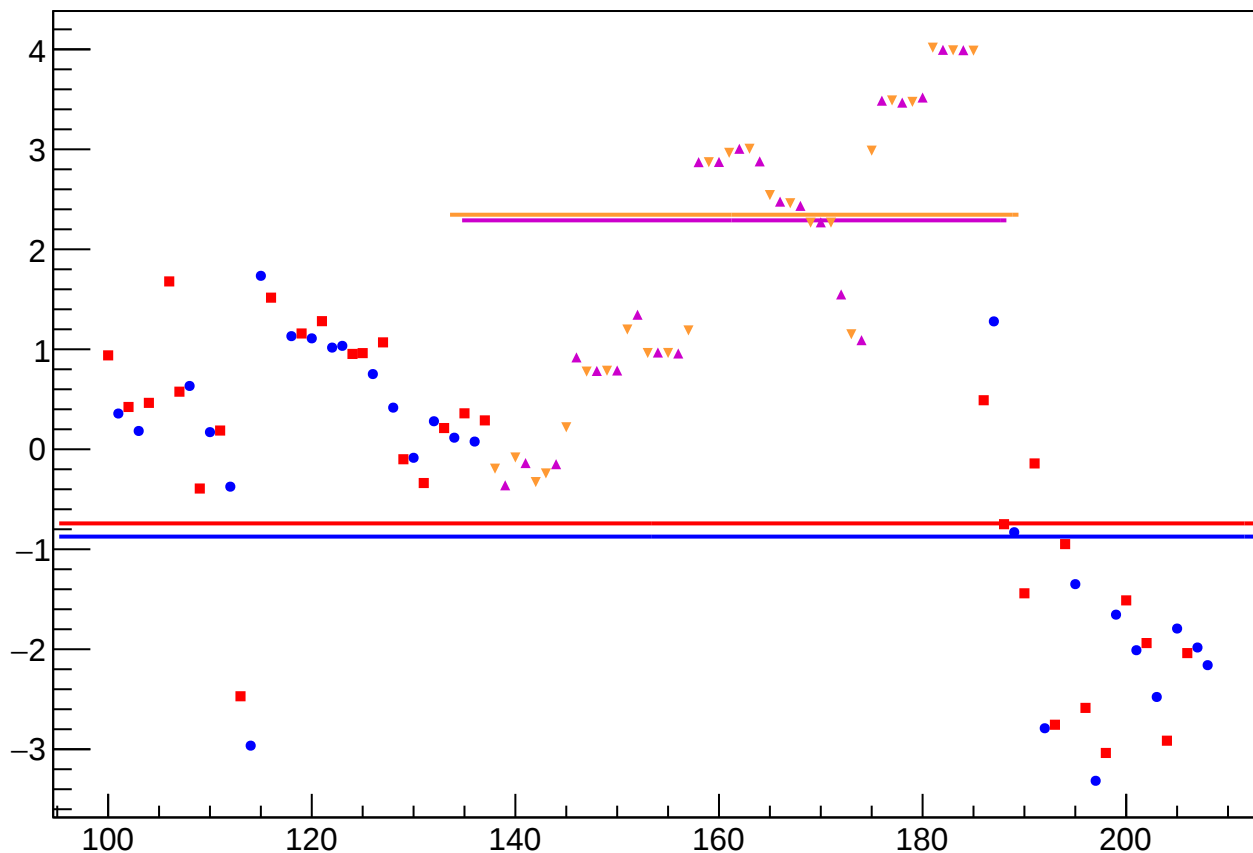
Right: 0.013 $\pm$ 0.000 χ^2 /NDF: 3398684.1/58

In: 0.012 $\pm$ 0.000 χ^2 /NDF:2312520.6/50

Out: 0.012 $\pm$ 0.000 χ^2 /NDF:2938805.6/55

All: 0.012 $\pm$ 0.000 χ^2 /NDF: 5252307.8/106

yield_bpm1X_mean vs Slug, Sign Corrected



Right In: -0.873 ± 0.000 $\chi^2/\text{NDF}: 6762294179.2/27$

Left Out: 2.346 ± 0.000 $\chi^2/\text{NDF}: 63481331015.4/24$

Right Out: -0.741 ± 0.000 $\chi^2/\text{NDF}: 7592120533.9/30$

Left In: 2.290 ± 0.000 $\chi^2/\text{NDF}: 60875537647.3/22$

Left: 2.318 ± 0.000 $\chi^2/\text{NDF}: 124438674298.4/47$

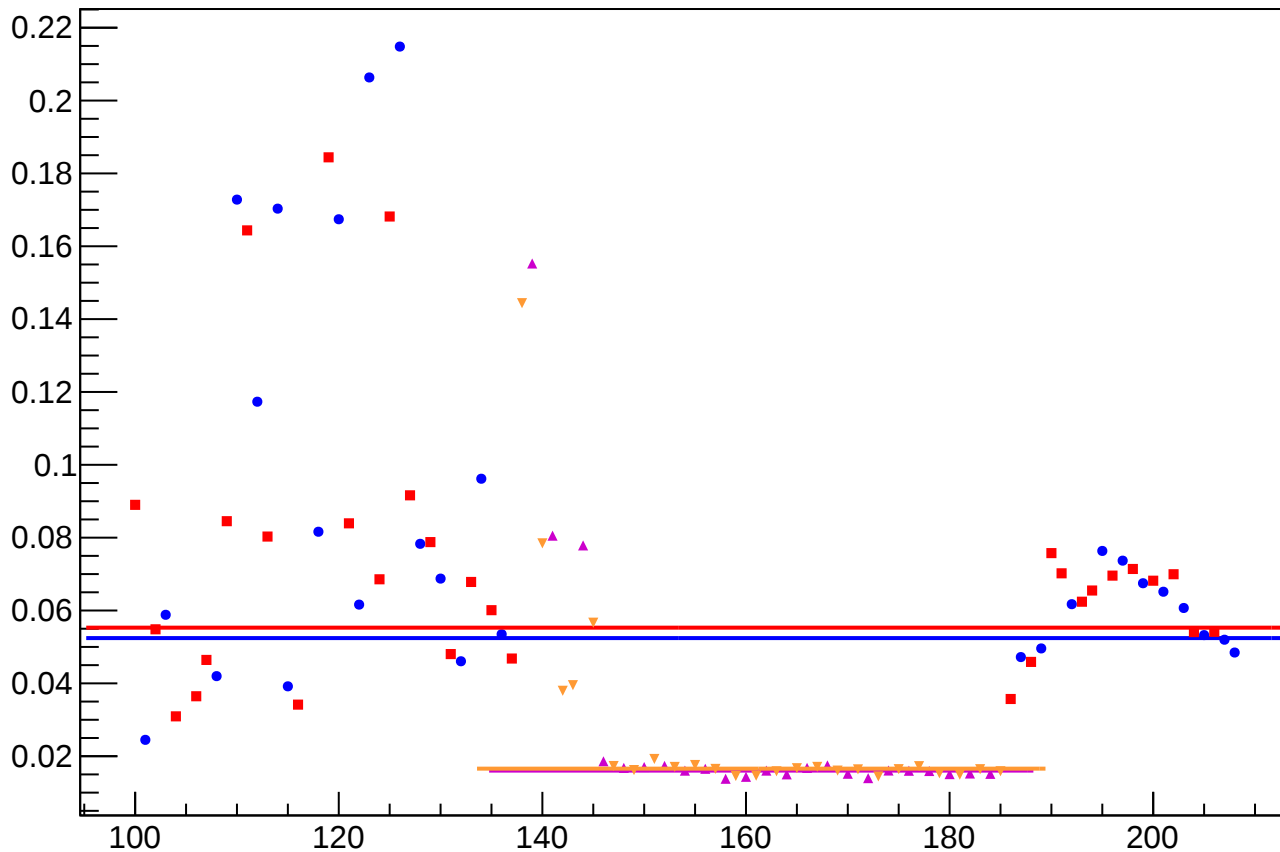
Right: -0.808 ± 0.000 $\chi^2/\text{NDF}: 14387235176.5/58$

In: 2.072 ± 0.000 $\chi^2/\text{NDF}: 103342437621.5/50$

Out: 2.136 ± 0.000 $\chi^2/\text{NDF}: 104048856442.0/55$

All: 2.104 ± 0.000 $\chi^2/\text{NDF}: 207506165763.1$

yield_bpm1X_rms vs Slug, Sign Corrected



Right In: 0.052+/-0.000 χ^2/NDF : 3508264.3/27

Left Out: 0.017+/-0.000 χ^2/NDF :2621162.1/24

Right Out: 0.055+/-0.000 χ^2/NDF : 2837186.3/30

Left In: 0.016+/-0.000 χ^2/NDF :2394376.5/22

Left: 0.016+/-0.000 χ^2/NDF : 5030430.5/47

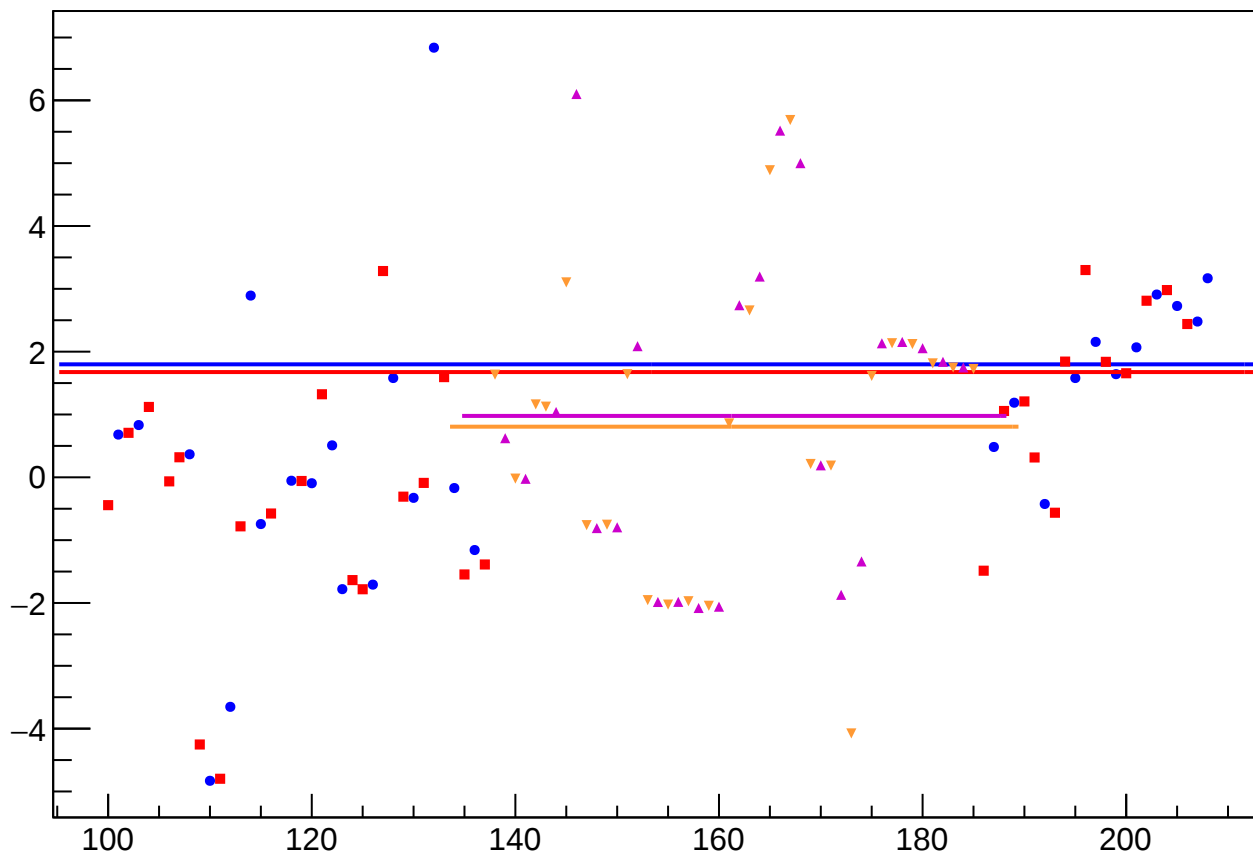
Right: 0.054+/-0.000 χ^2/NDF : 6376392.1/58

In: 0.019+/-0.000 χ^2/NDF :15350985.2/50

Out: 0.019+/-0.000 χ^2/NDF :15824656.1/55

All: 0.019+/-0.000 χ^2/NDF : 31199816.8/106

yield_bpm1Y_mean vs Slug, Sign Corrected



Right In: 1.798+/-0.000

χ^2/NDF : 36949959003.1/27

Left: 0.892+/-0.000 χ^2/NDF : 1077036497291.8/47

Right: 1.739+/-0.000 χ^2/NDF : 70468264566.4/58

Left Out: 0.806+/-0.000

χ^2/NDF : 507578952196.2/24

In: 1.157+/-0.000 χ^2/NDF : 617688669289.8/50

Right Out: 1.675+/-0.000

χ^2/NDF : 33345815951.1/30

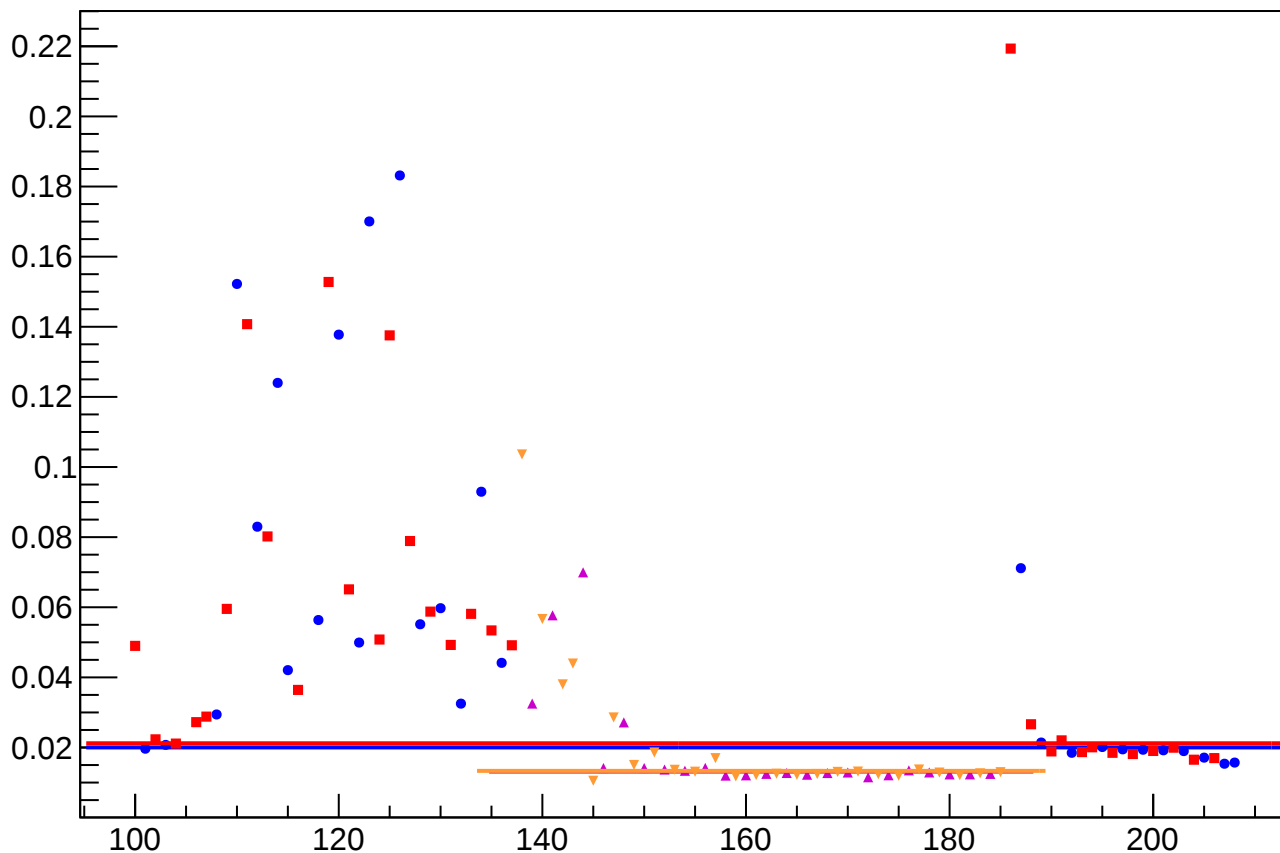
Out: 0.984+/-0.000 χ^2/NDF : 554031512711.7/55

Left In: 0.977+/-0.000

χ^2/NDF : 568209676597.4/22

All: 1.071+/-0.000 χ^2/NDF : 1173334231314.

yield_bpm1Y_rms vs Slug, Sign Corrected



Right In: 0.020+/-0.000 χ^2/NDF : 4148797.9/27

Left Out: 0.013+/-0.000 χ^2/NDF : 2829753.9/24

Right Out: 0.021+/-0.000 χ^2/NDF : 5029909.7/30

Left In: 0.013+/-0.000 χ^2/NDF : 1946693.6/22

Left: 0.013+/-0.000 χ^2/NDF : 4779900.3/47

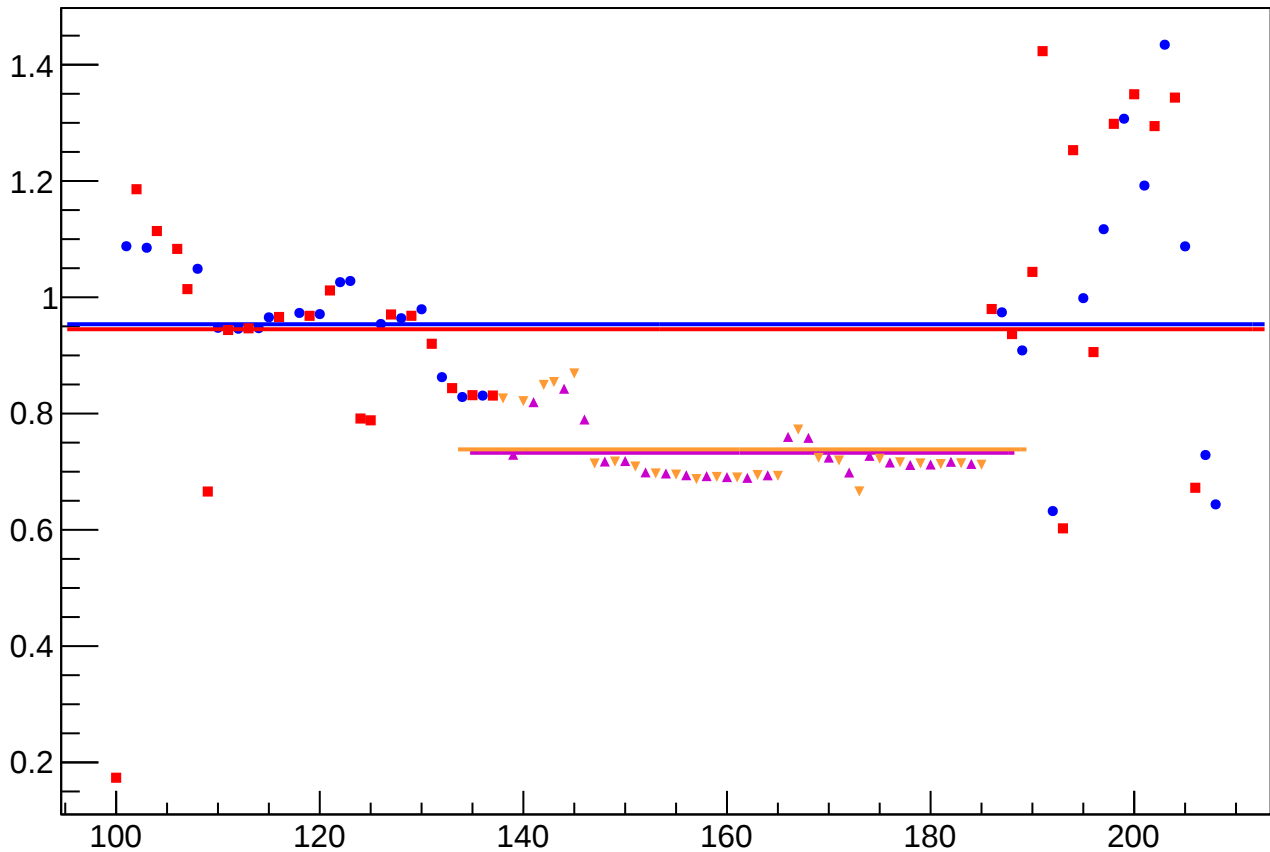
Right: 0.021+/-0.000 χ^2/NDF : 9211006.7/58

In: 0.015+/-0.000 χ^2/NDF : 7856441.1/50

Out: 0.015+/-0.000 χ^2/NDF : 10009559.3/55

All: 0.015+/-0.000 χ^2/NDF : 17876156.8/106

yield_bpm11X_mean vs Slug, Sign Corrected



Right In: 0.954 $\pm$ 0.000 χ^2/NDF : 673420113.3/27

Left Out: 0.738 $\pm$ 0.000 χ^2/NDF :310195180.4/24

Right Out: 0.945 $\pm$ 0.000 χ^2/NDF : 1053147885.9/30

Left In: 0.733 $\pm$ 0.000 χ^2/NDF :170102394.7/22

Left: 0.736 $\pm$ 0.000 χ^2/NDF : 481708989.2/47

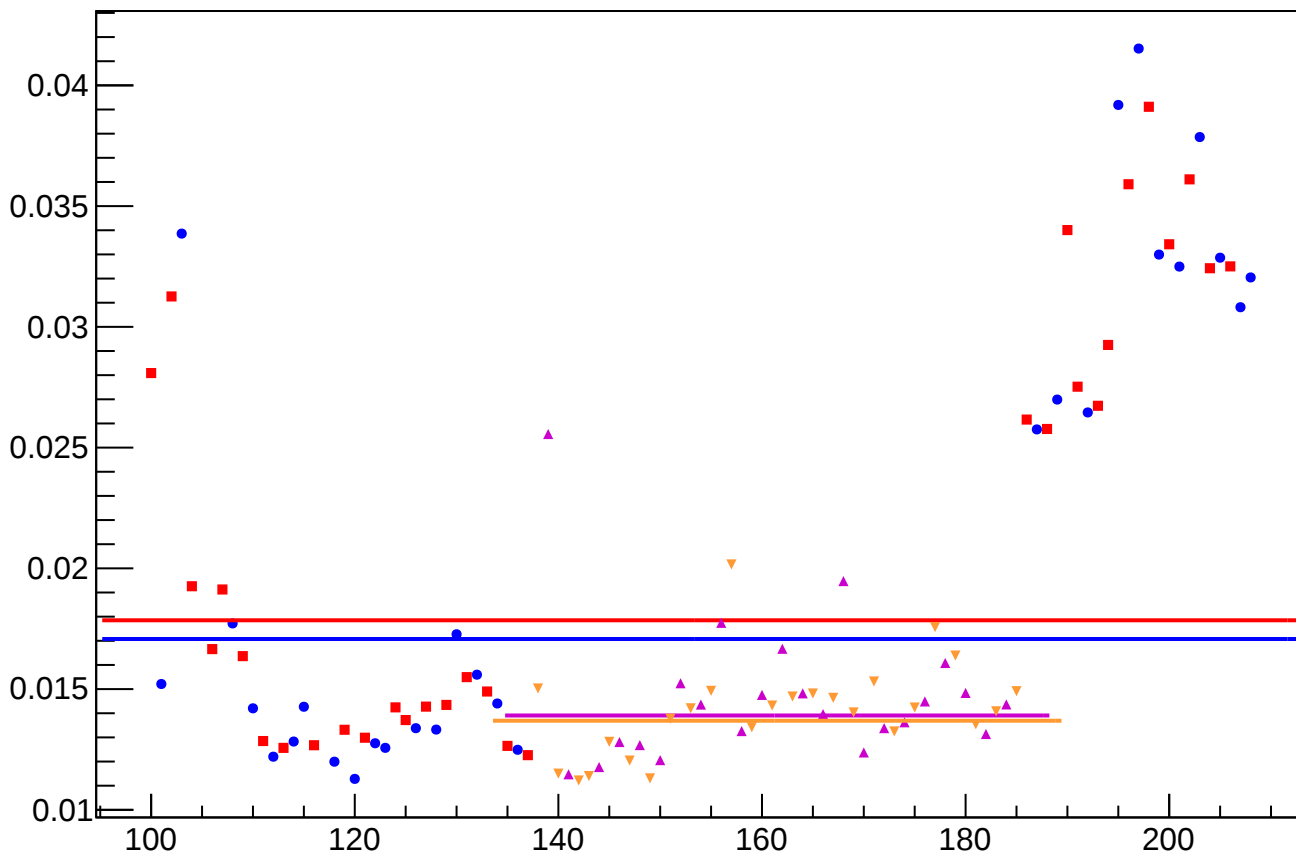
Right: 0.949 $\pm$ 0.000 χ^2/NDF : 1727954494.6/58

In: 0.804 $\pm$ 0.000 χ^2/NDF :2097697449.8/50

Out: 0.801 $\pm$ 0.000 χ^2/NDF :2471755389.1/55

All: 0.802 $\pm$ 0.000 χ^2/NDF : 4570023383.5/100

yield_bpm11X_rms vs Slug, Sign Corrected



Right In: 0.017+/-0.000 χ^2/NDF : 4596193.1/27

Left Out: 0.014+/-0.000 χ^2/NDF : 528480.6/24

Right Out: 0.018+/-0.000 χ^2/NDF : 4037262.0/30

Left In: 0.014+/-0.000 χ^2/NDF : 768161.9/22

Left: 0.014+/-0.000 χ^2/NDF : 1300553.4/47

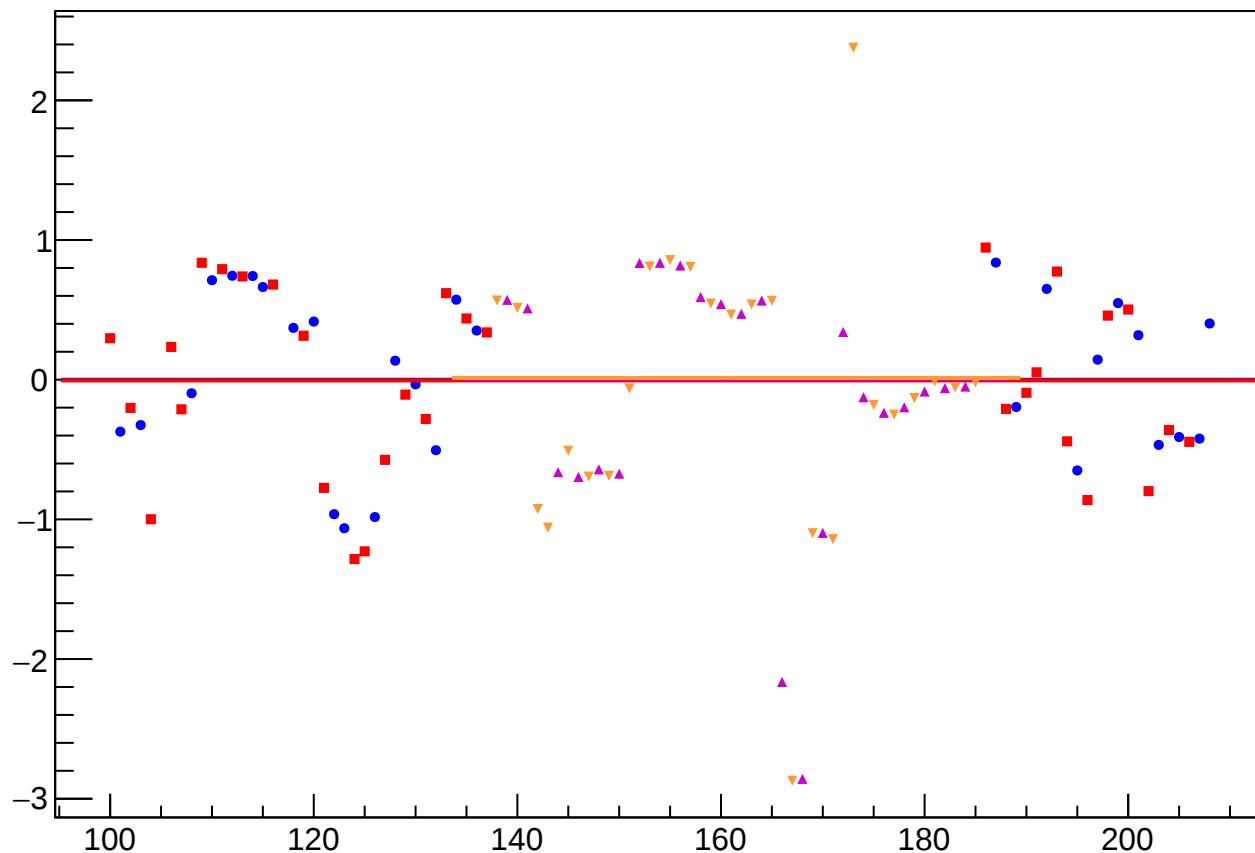
Right: 0.017+/-0.000 χ^2/NDF : 8655970.5/58

In: 0.015+/-0.000 χ^2/NDF : 5879045.8/50

Out: 0.015+/-0.000 χ^2/NDF : 5463823.9/55

All: 0.015+/-0.000 χ^2/NDF : 11342900.0/106

yield_bpm11Y_mean vs Slug, Sign Corrected



Right In: -0.001+/-0.000 χ^2/NDF : 20234740039.1/27

Left Out: 0.012+/-0.000 χ^2/NDF : 96383858927.1/24

Right Out: -0.005+/-0.000 χ^2/NDF : 29568576866.4/30

Left In: 0.003+/-0.000 χ^2/NDF : 78826489573.0/22

Left: 0.008+/-0.000 χ^2/NDF : 175214894006.3/47

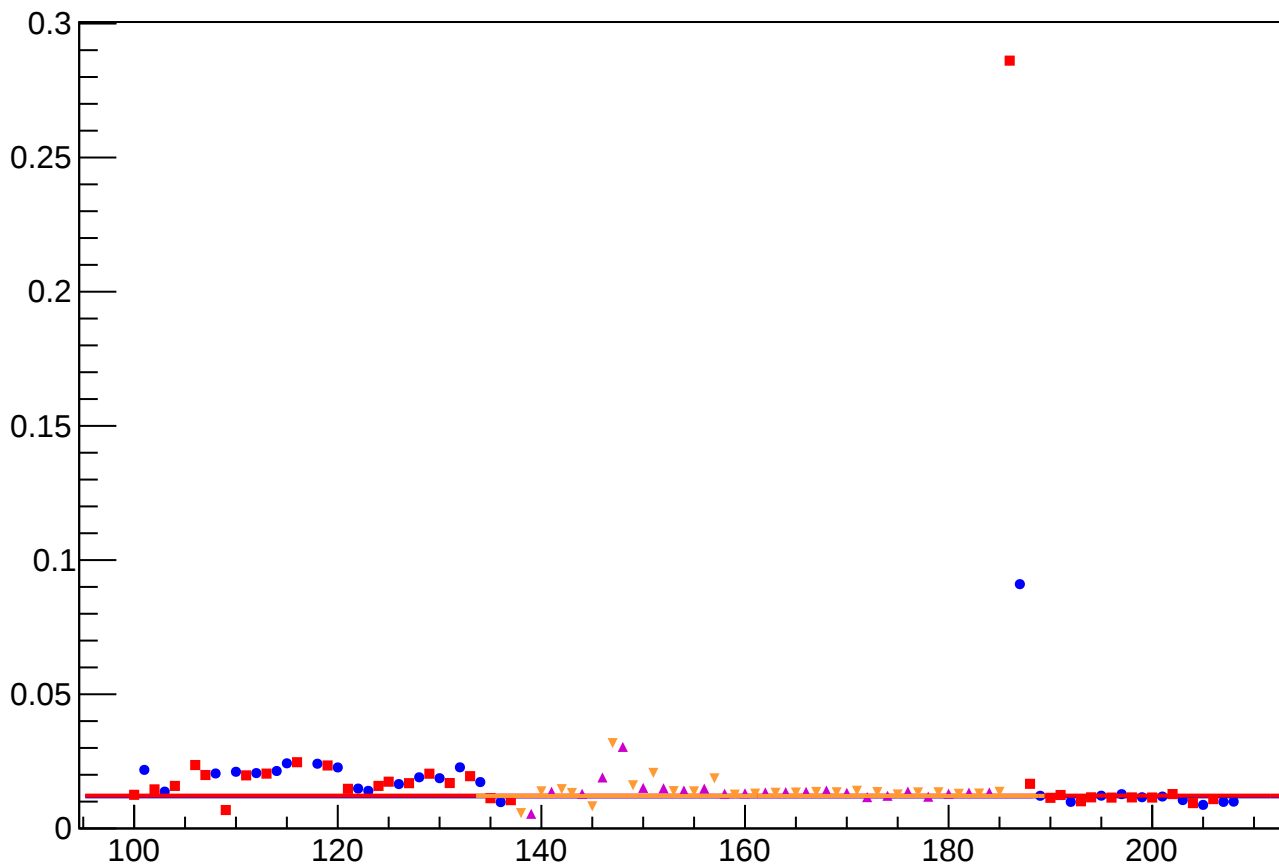
Right: -0.003+/-0.000 χ^2/NDF : 49804242746.0/58

In: 0.001+/-0.000 χ^2/NDF : 99061874303.7/50

Out: 0.005+/-0.000 χ^2/NDF : 125967035025.5/55

All: 0.003+/-0.000 χ^2/NDF : 225029952309.4

yield_bpm11Y_rms vs Slug, Sign Corrected



Right In: 0.012+/-0.000 χ^2/NDF : 2362321.9/27

Left Out: 0.012+/-0.000 χ^2/NDF :3105238.9/24

Right Out: 0.012+/-0.000 χ^2/NDF : 2679968.5/30

Left In: 0.012+/-0.000 χ^2/NDF :3003502.9/22

Left: 0.012+/-0.000 χ^2/NDF : 6110012.2/47

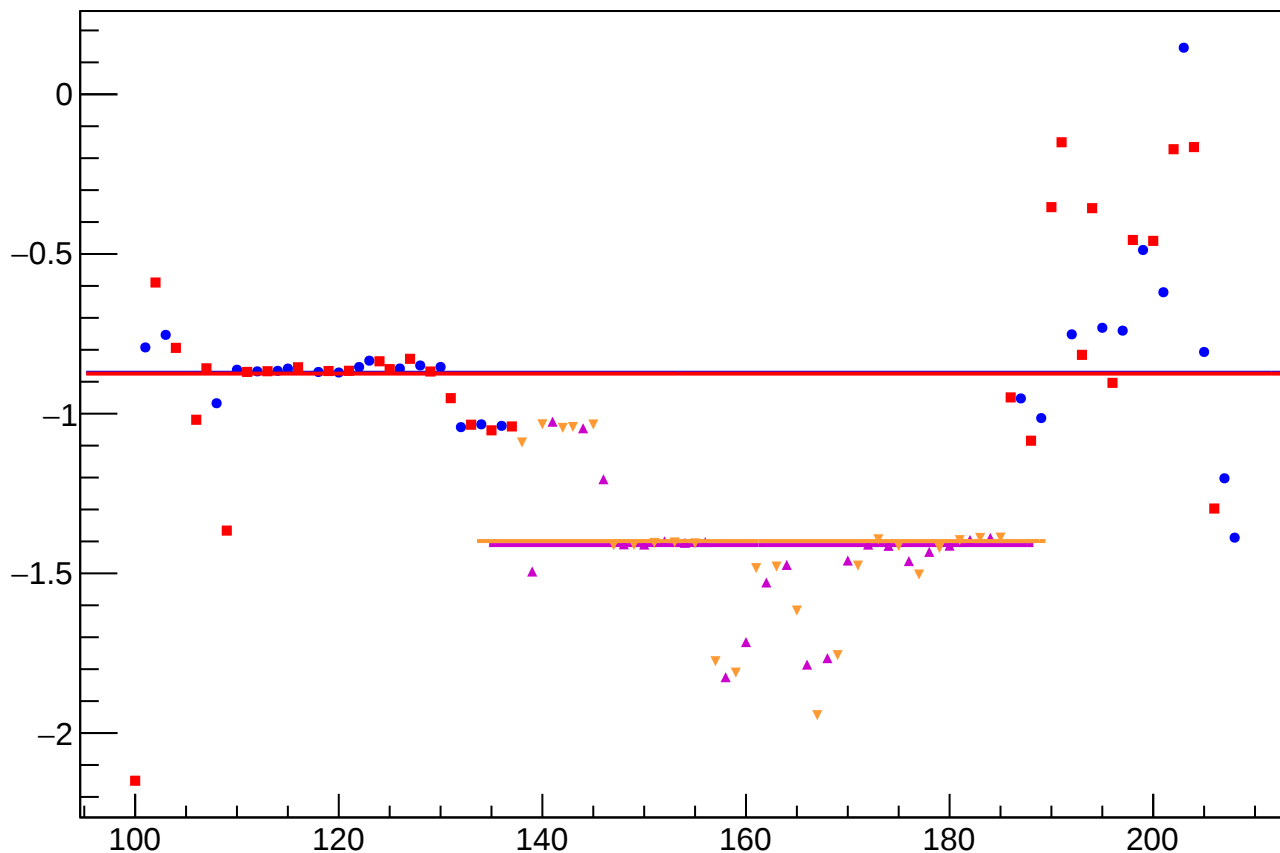
Right: 0.012+/-0.000 χ^2/NDF : 5048896.6/58

In: 0.012+/-0.000 χ^2/NDF :5365988.8/50

Out: 0.012+/-0.000 χ^2/NDF :5786809.8/55

All: 0.012+/-0.000 χ^2/NDF : 11159226.1/106

yield_bpm12X_mean vs Slug, Sign Corrected



Right In: -0.872 ± 0.000 $\chi^2/\text{NDF}: 211394767.0/27$

Left Out: -1.399 ± 0.000 $\chi^2/\text{NDF}: 738251911.1/24$

Right Out: -0.874 ± 0.000 $\chi^2/\text{NDF}: 394036492.1/30$

Left In: -1.411 ± 0.000 $\chi^2/\text{NDF}: 512547995.0/22$

Left: -1.405 ± 0.000 $\chi^2/\text{NDF}: 1251791467.1/47$

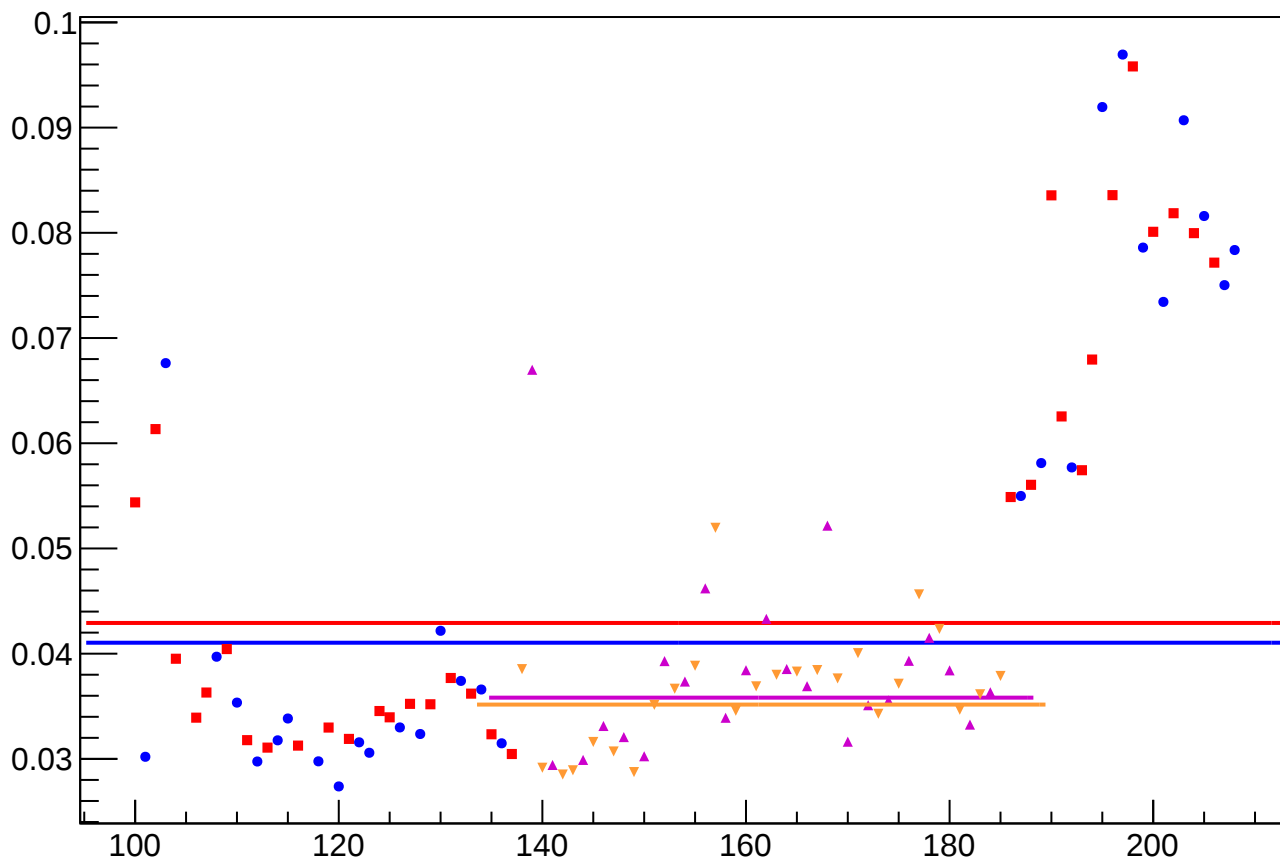
Right: -0.873 ± 0.000 $\chi^2/\text{NDF}: 605453891.0/58$

In: -1.218 ± 0.000 $\chi^2/\text{NDF}: 1967218941.7/50$

Out: -1.223 ± 0.000 $\chi^2/\text{NDF}: 2328620403.3/55$

All: -1.220 ± 0.000 $\chi^2/\text{NDF}: 4296071058.9/1$

yield_bpm12X_rms vs Slug, Sign Corrected



Right In: 0.041+/-0.000 χ^2/NDF : 4283912.9/27

Left Out: 0.035+/-0.000 χ^2/NDF : 595219.5/24

Right Out: 0.043+/-0.000 χ^2/NDF : 3543048.9/30

Left In: 0.036+/-0.000 χ^2/NDF : 864147.6/22

Left: 0.035+/-0.000 χ^2/NDF : 1464751.5/47

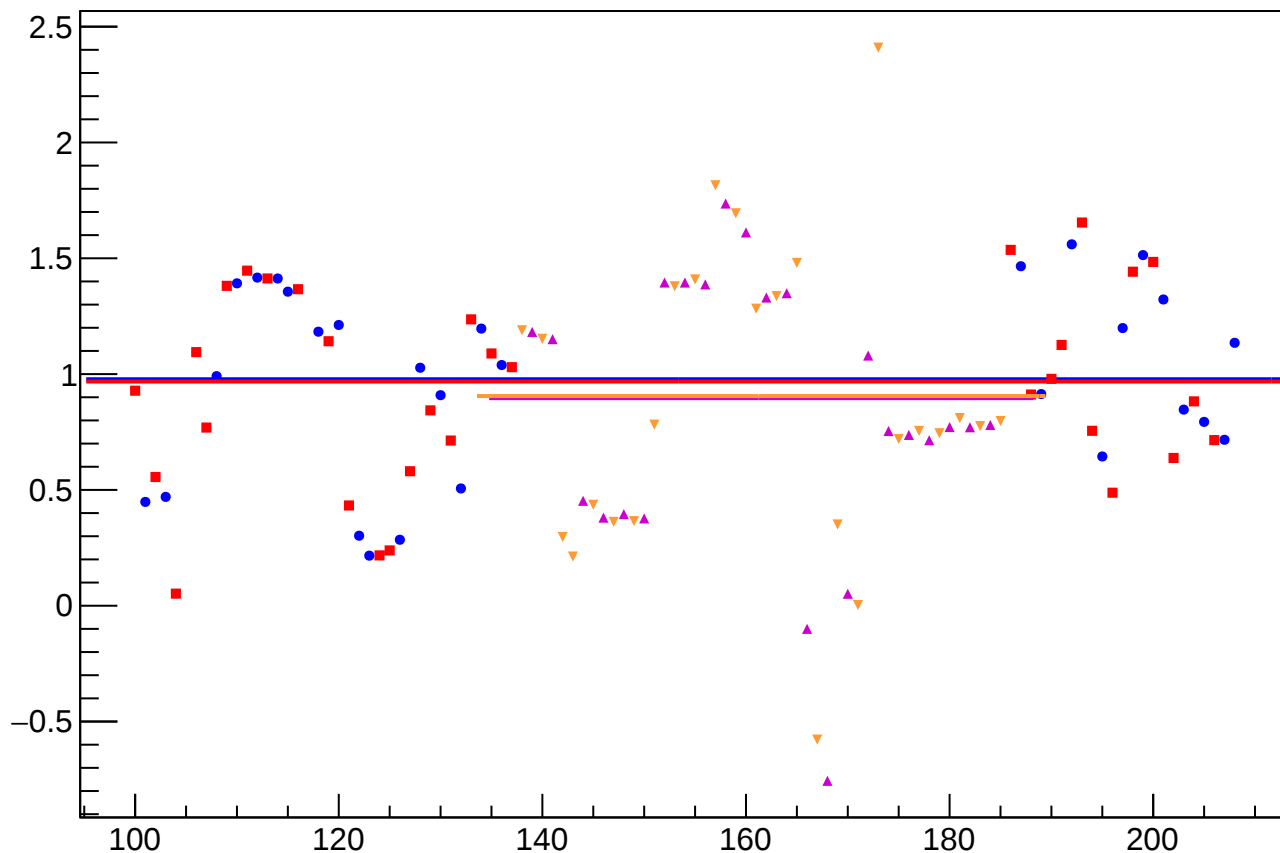
Right: 0.042+/-0.000 χ^2/NDF : 7850258.7/58

In: 0.038+/-0.000 χ^2/NDF : 5380825.1/50

Out: 0.038+/-0.000 χ^2/NDF : 4662006.5/55

All: 0.038+/-0.000 χ^2/NDF : 10042931.2/106

yield_bpm12Y_mean vs Slug, Sign Corrected



Right In: 0.978+/-0.000

χ^2/NDF : 22898691129.0/27

Left: 0.901+/-0.000

χ^2/NDF : 150868618084.6/47

Left Out: 0.905+/-0.000

χ^2/NDF : 84265726513.8/24

Right: 0.973+/-0.000

χ^2/NDF : 50107413737.9/58

Right Out: 0.968+/-0.000

χ^2/NDF : 27199449704.6/30

In: 0.938+/-0.000

χ^2/NDF : 90188919593.5/50

Out: 0.934+/-0.000

χ^2/NDF : 111856722680.7/55

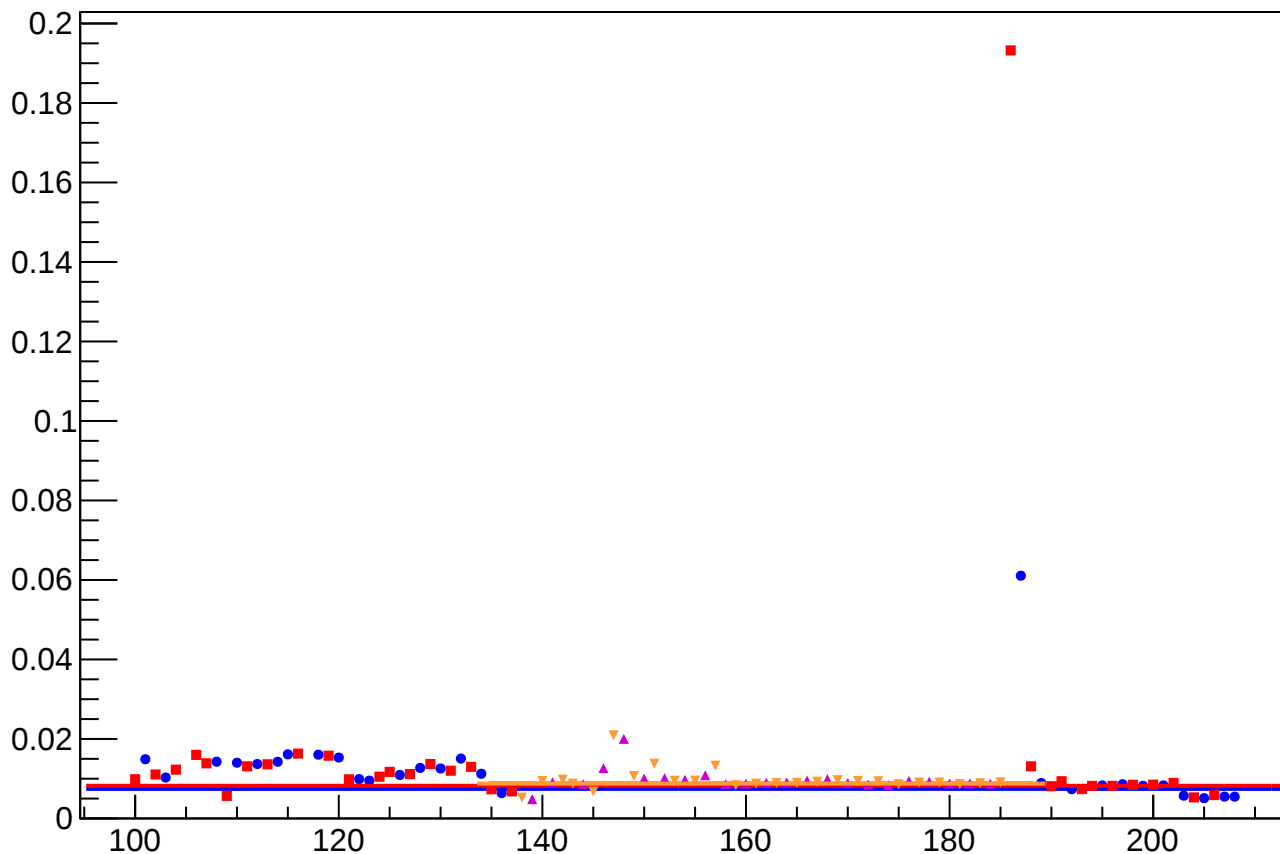
Left In: 0.896+/-0.000

χ^2/NDF : 66594200889.6/22

All: 0.936+/-0.000

χ^2/NDF : 202049105900.4

yield_bpm12Y_rms vs Slug, Sign Corrected



Right In: 0.007 $\pm$ 0.000 χ^2/NDF : 3206048.0/27

Left Out: 0.009 $\pm$ 0.000 χ^2/NDF : 1697568.1/24

Right Out: 0.008 $\pm$ 0.000 χ^2/NDF : 3111694.5/30

Left In: 0.009 $\pm$ 0.000 χ^2/NDF : 1607939.0/22

Left: 0.009 $\pm$ 0.000 χ^2/NDF : 3305514.2/47

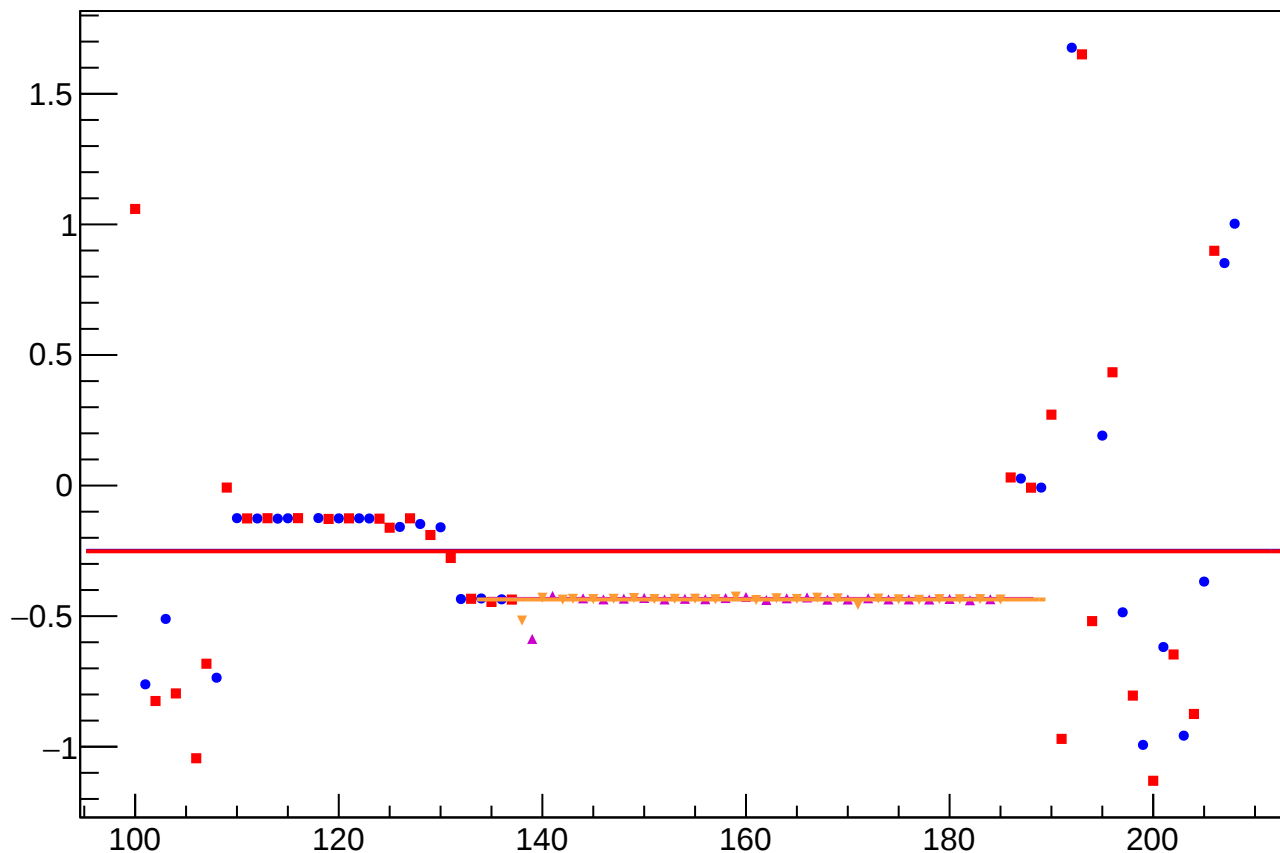
Right: 0.008 $\pm$ 0.000 χ^2/NDF : 6437967.1/58

In: 0.008 $\pm$ 0.000 χ^2/NDF : 5186130.7/50

Out: 0.009 $\pm$ 0.000 χ^2/NDF : 4871077.0/55

All: 0.008 $\pm$ 0.000 χ^2/NDF : 10134470.3/106

yield_bpm16X_mean vs Slug, Sign Corrected



Right In: -0.250 ± 0.000 χ^2/NDF : 3168139372.1/27

Left Out: -0.436 ± 0.000 χ^2/NDF : 28774660.0/24

Right Out: -0.252 ± 0.000 χ^2/NDF : 2660983279.4/30

Left In: -0.434 ± 0.000 χ^2/NDF : 23984173.0/22

Left: -0.435 ± 0.000 χ^2/NDF : 53122221.7/47

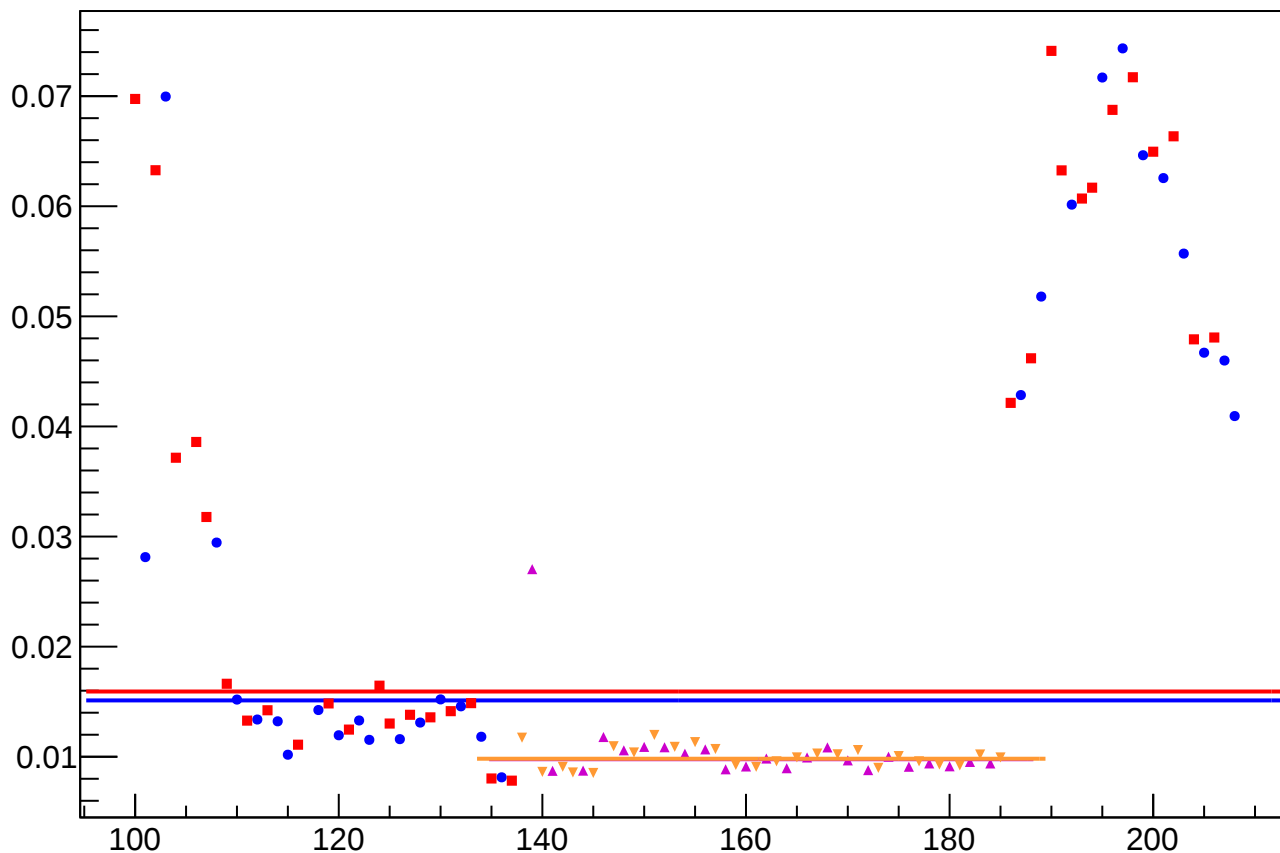
Right: -0.251 ± 0.000 χ^2/NDF : 5829178741.0/58

In: -0.400 ± 0.000 χ^2/NDF : 4145702019.4/50

Out: -0.406 ± 0.000 χ^2/NDF : 3604670043.7/55

All: -0.403 ± 0.000 χ^2/NDF : 7753300233.3/1

yield_bpm16X_rms vs Slug, Sign Corrected



Right In: 0.015+/-0.000 χ^2/NDF : 10203407.9/27

Left Out: 0.010+/-0.000 χ^2/NDF : 269242.6/24

Right Out: 0.016+/-0.000 χ^2/NDF : 10615049.1/30

Left In: 0.010+/-0.000 χ^2/NDF : 747550.0/22

Left: 0.010+/-0.000 χ^2/NDF : 1017115.3/47

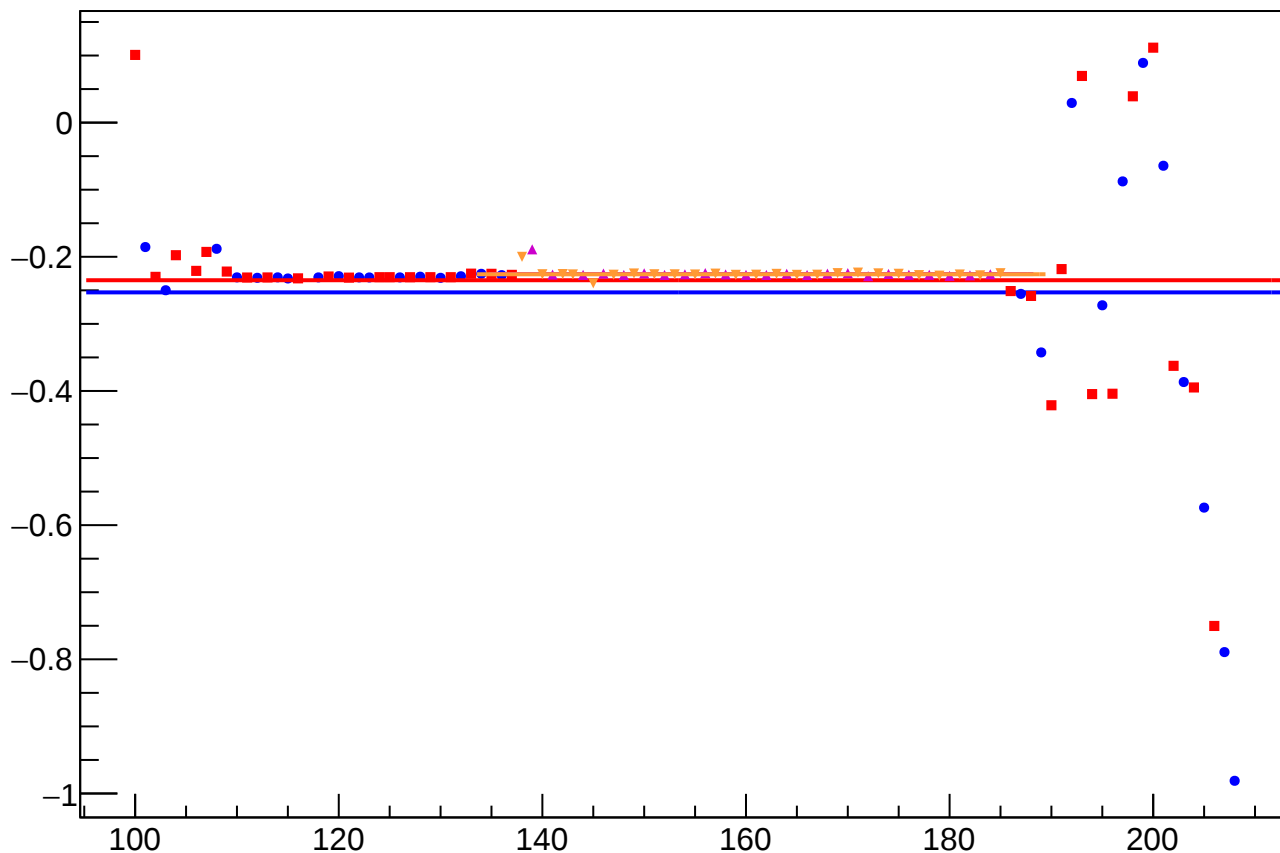
Right: 0.016+/-0.000 χ^2/NDF : 20840233.9/58

In: 0.011+/-0.000 χ^2/NDF : 12554639.8/50

Out: 0.011+/-0.000 χ^2/NDF : 12887208.3/55

All: 0.011+/-0.000 χ^2/NDF : 25442835.6/106

yield_bpm16Y_mean vs Slug, Sign Corrected



Right In: -0.253+/-0.000 χ^2/NDF : 22442082989.6/27

Left Out: -0.226+/-0.000 χ^2/NDF : 21205667.4/24

Right Out: -0.235+/-0.000 χ^2/NDF : 13480447369.2/30

Left In: -0.226+/-0.000 χ^2/NDF : 15245251.1/22

Left: -0.226+/-0.000 χ^2/NDF : 36480793.2/47

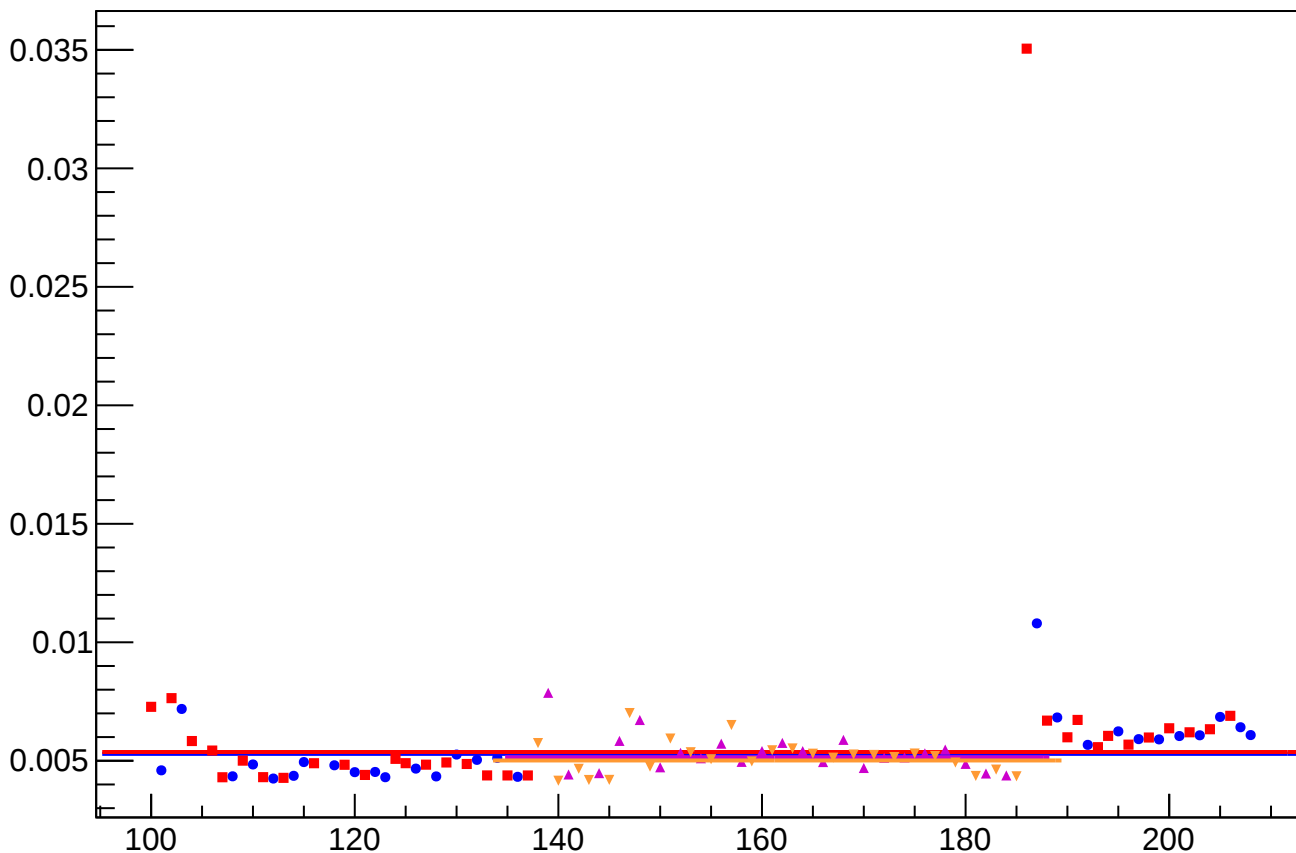
Right: -0.244+/-0.000 χ^2/NDF : 35999326219.7/58

In: -0.238+/-0.000 χ^2/NDF : 22655625717.6/50

Out: -0.230+/-0.000 χ^2/NDF : 13523725079.2/55

All: -0.233+/-0.000 χ^2/NDF : 36214069224.4/101

yield_bpm16Y_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 776653.8/27

Left Out: 0.005+/-0.000 χ^2/NDF : 530632.6/24

Right Out: 0.005+/-0.000 χ^2/NDF : 1255335.4/30

Left In: 0.005+/-0.000 χ^2/NDF : 493107.7/22

Left: 0.005+/-0.000 χ^2/NDF : 1035156.6/47

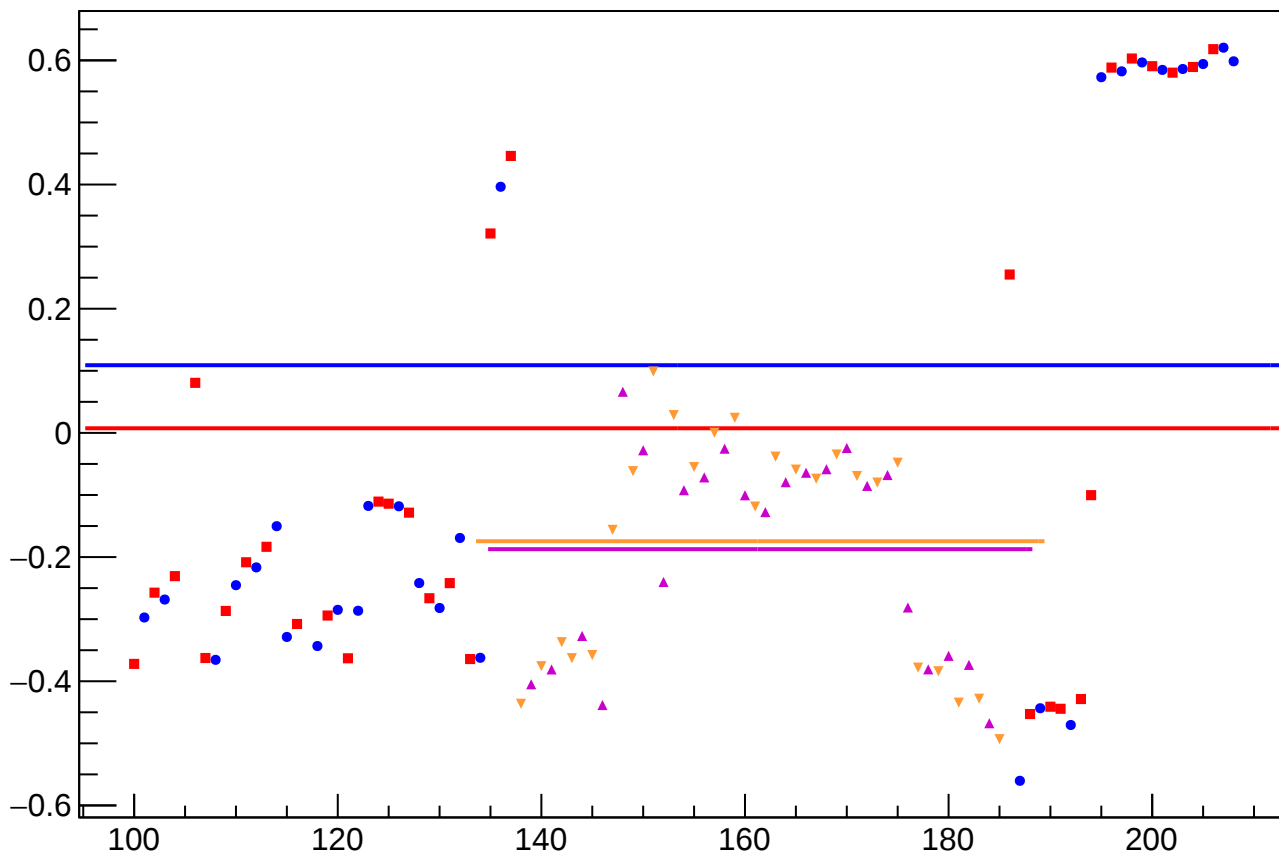
Right: 0.005+/-0.000 χ^2/NDF : 2034866.3/58

In: 0.005+/-0.000 χ^2/NDF : 1280971.5/50

Out: 0.005+/-0.000 χ^2/NDF : 1856651.3/55

All: 0.005+/-0.000 χ^2/NDF : 3140497.1/106

yield_bpm0i02X_mean vs Slug, Sign Corrected



Right In: 0.109 $\pm$ 0.000

χ^2/NDF : 60427656711.2/27

Left: -0.181 $\pm$ 0.000

χ^2/NDF : 30888184231.6/47

Left Out: -0.174 $\pm$ 0.000

χ^2/NDF : 18025533236.1/24

Right: 0.057 $\pm$ 0.000

χ^2/NDF : 116650110505.4/58

Right Out: 0.007 $\pm$ 0.000

χ^2/NDF : 54624792519.0/30

In: -0.082 $\pm$ 0.000

χ^2/NDF : 90277790265.2/50

Out: -0.110 $\pm$ 0.000

χ^2/NDF : 79458530445.7/55

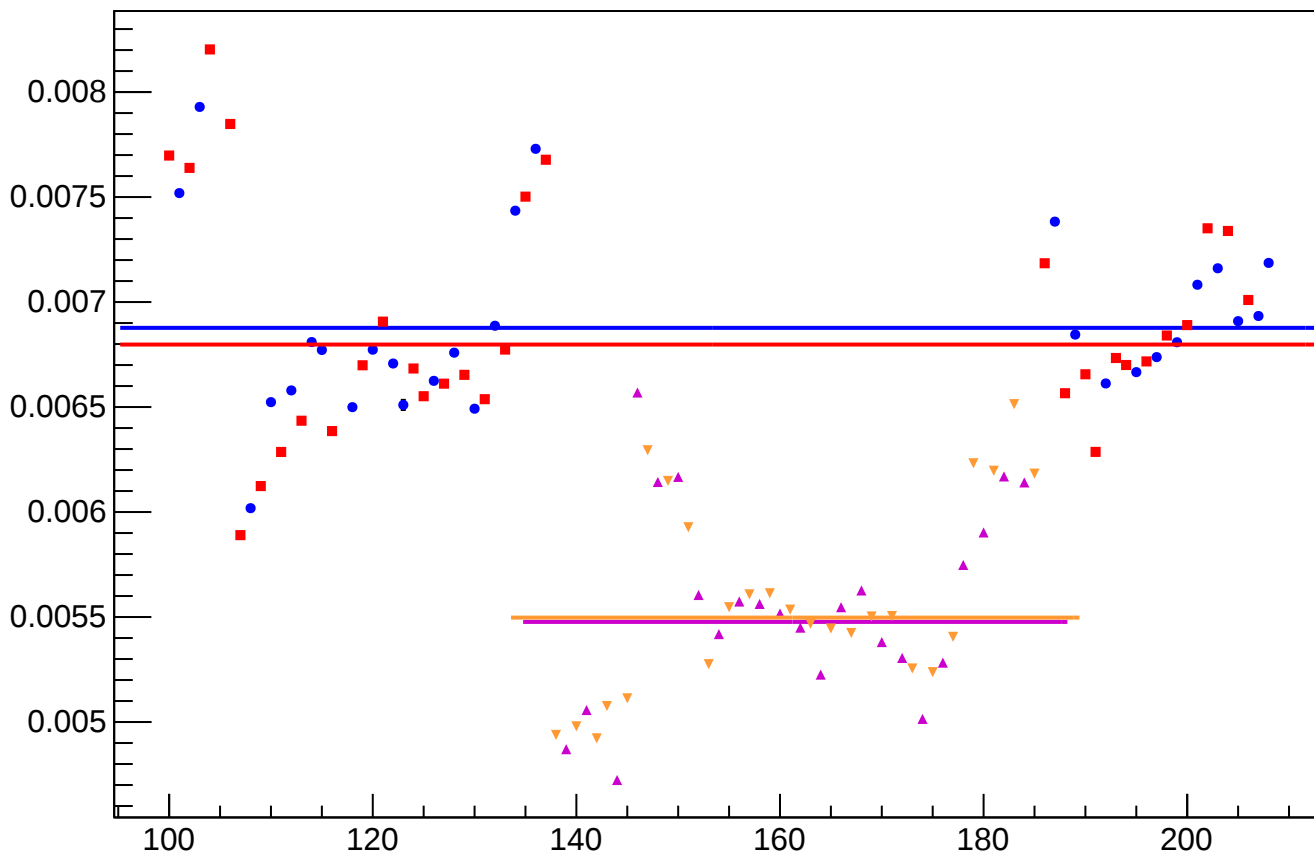
Left In: -0.187 $\pm$ 0.000

χ^2/NDF : 12816646575.4/22

All: -0.096 $\pm$ 0.000

χ^2/NDF : 170066205097.1

yield_bpm0i02X_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 91502.6/27

Left Out: 0.005+/-0.000 χ^2/NDF :198746.4/24

Right Out: 0.007+/-0.000 χ^2/NDF : 130089.3/30

Left In: 0.005+/-0.000 χ^2/NDF :202181.4/22

Left: 0.005+/-0.000 χ^2/NDF : 401165.3/47

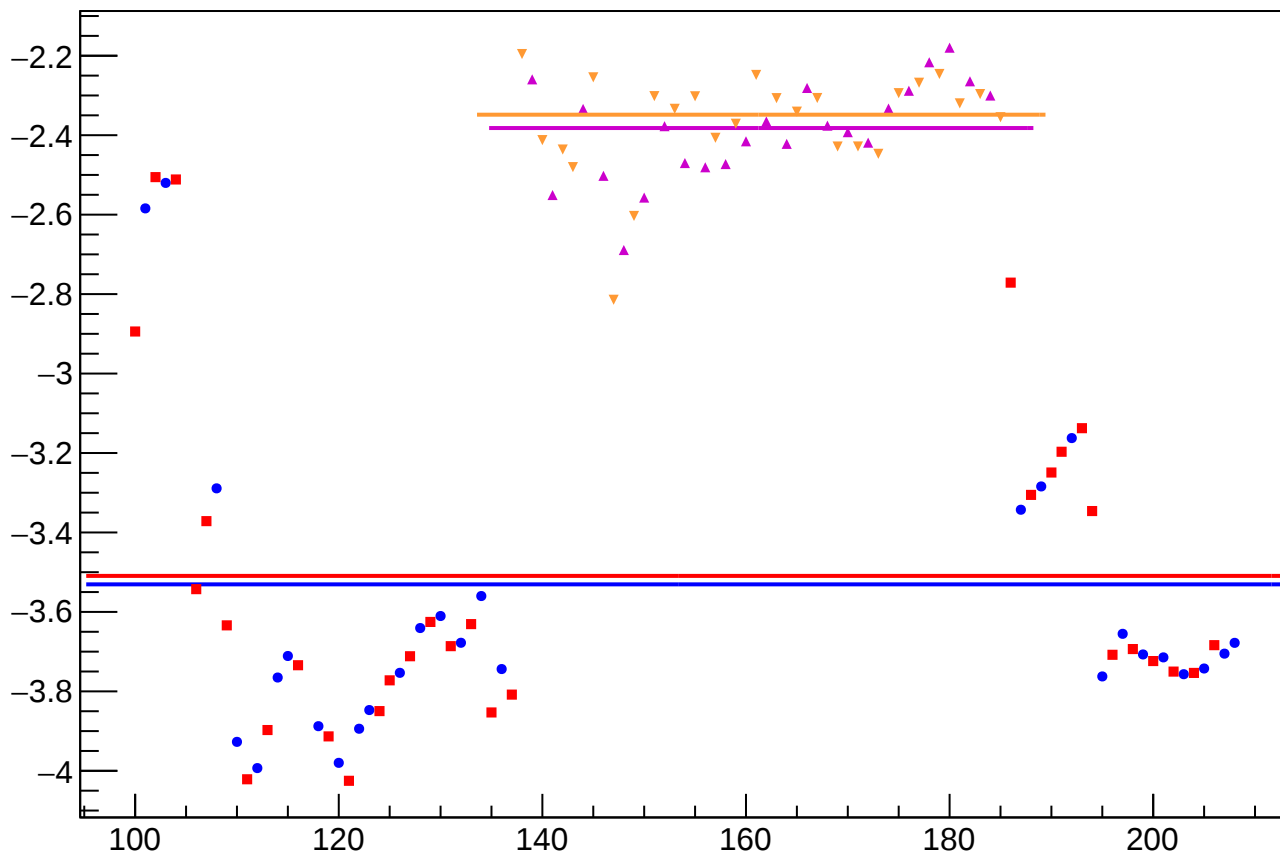
Right: 0.007+/-0.000 χ^2/NDF : 223550.9/58

In: 0.006+/-0.000 χ^2/NDF :1054751.2/50

Out: 0.006+/-0.000 χ^2/NDF :1024478.7/55

All: 0.006+/-0.000 χ^2/NDF : 2079380.6/106

yield_bpm0i02Y_mean vs Slug, Sign Corrected



Right In: -3.531+/-0.000 χ^2/NDF : 30026680080.3/27

Left Out: -2.348+/-0.000 χ^2/NDF : 2158686333.4/24

Right Out: -3.509+/-0.000 χ^2/NDF : 30813075038.6/30

Left In: -2.382+/-0.000 χ^2/NDF : 2318395228.4/22

Left: -2.365+/-0.000 χ^2/NDF : 4600738143.2/47

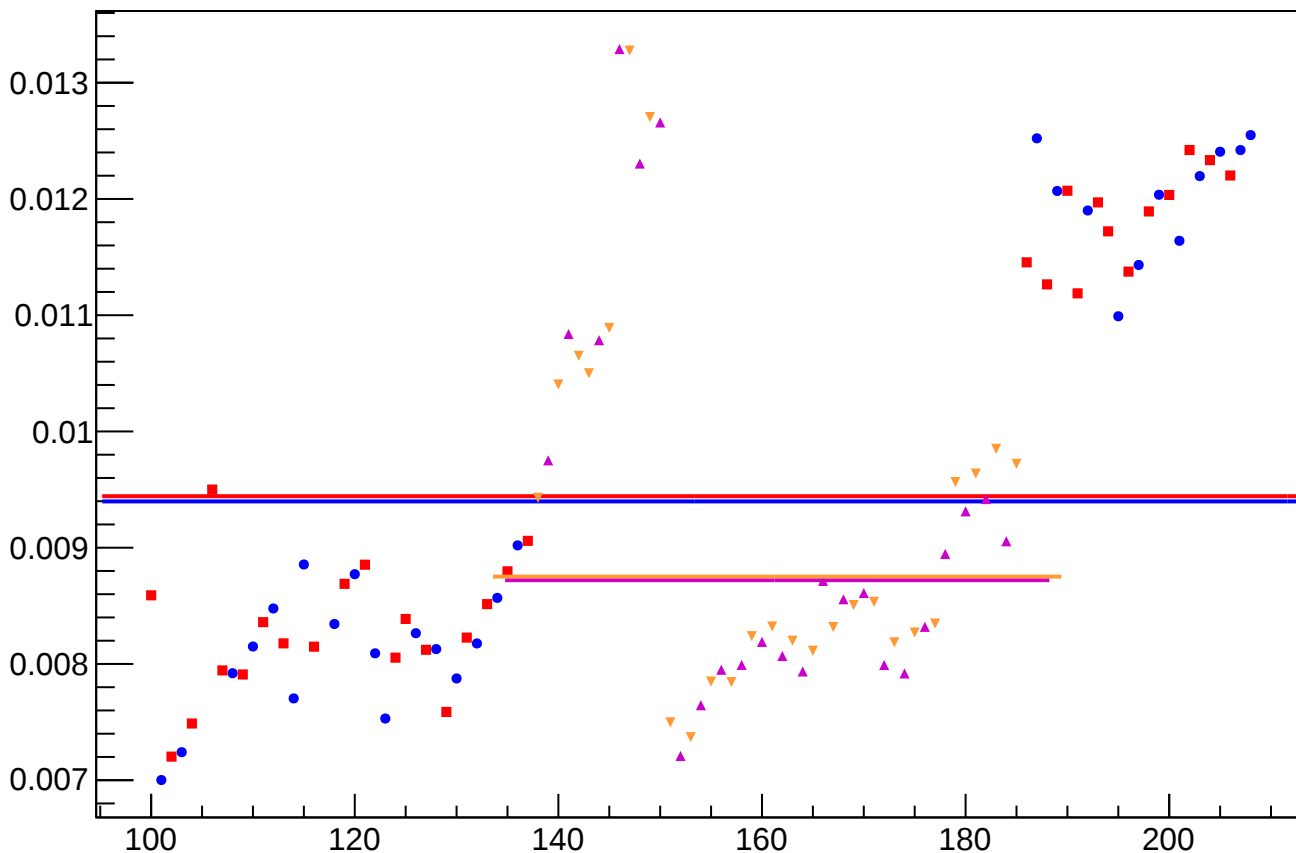
Right: -3.520+/-0.000 χ^2/NDF : 60875175923.8/58

In: -2.863+/-0.000 χ^2/NDF : 150172424137.4/50

Out: -2.828+/-0.000 χ^2/NDF : 158318256935.5/55

All: -2.845+/-0.000 χ^2/NDF : 308711962973.2

yield_bpm0i02Y_rms vs Slug, Sign Corrected



Right In: 0.009+/-0.000 χ^2/NDF : 1143553.9/27

Left Out: 0.009+/-0.000 χ^2/NDF : 663672.8/24

Right Out: 0.009+/-0.000 χ^2/NDF : 1066242.5/30

Left In: 0.009+/-0.000 χ^2/NDF : 747867.0/22

Left: 0.009+/-0.000 χ^2/NDF : 1411749.0/47

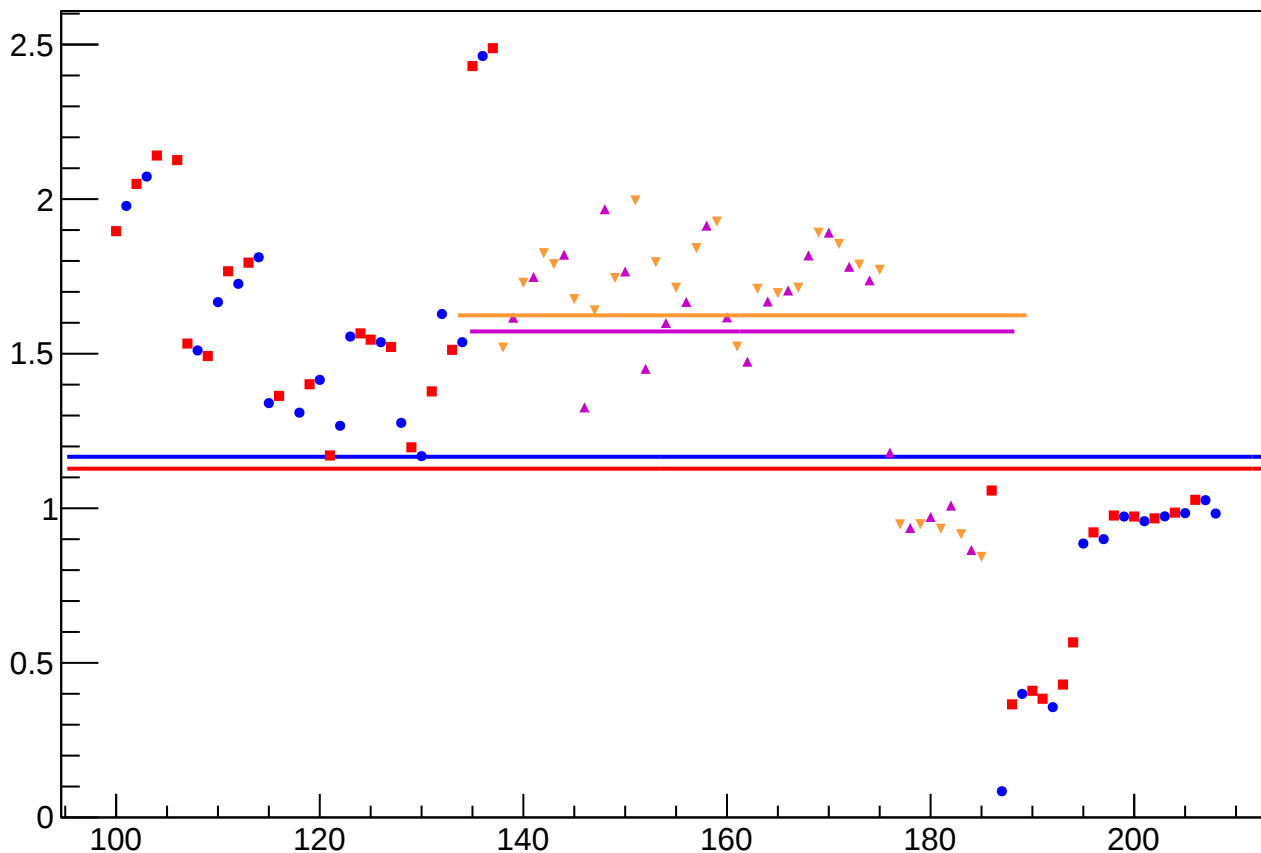
Right: 0.009+/-0.000 χ^2/NDF : 2210108.6/58

In: 0.009+/-0.000 χ^2/NDF : 1973470.3/50

Out: 0.009+/-0.000 χ^2/NDF : 1818882.5/55

All: 0.009+/-0.000 χ^2/NDF : 3792765.8/106

yield_bpm0i02aX_mean vs Slug, Sign Corrected



Right In: 1.167 $\pm$ 0.000 χ^2/NDF : 27574124337.8/27

Left Out: 1.624 $\pm$ 0.000 χ^2/NDF : 16631112386.4/24

Right Out: 1.128 $\pm$ 0.000 χ^2/NDF : 32644225397.5/30

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

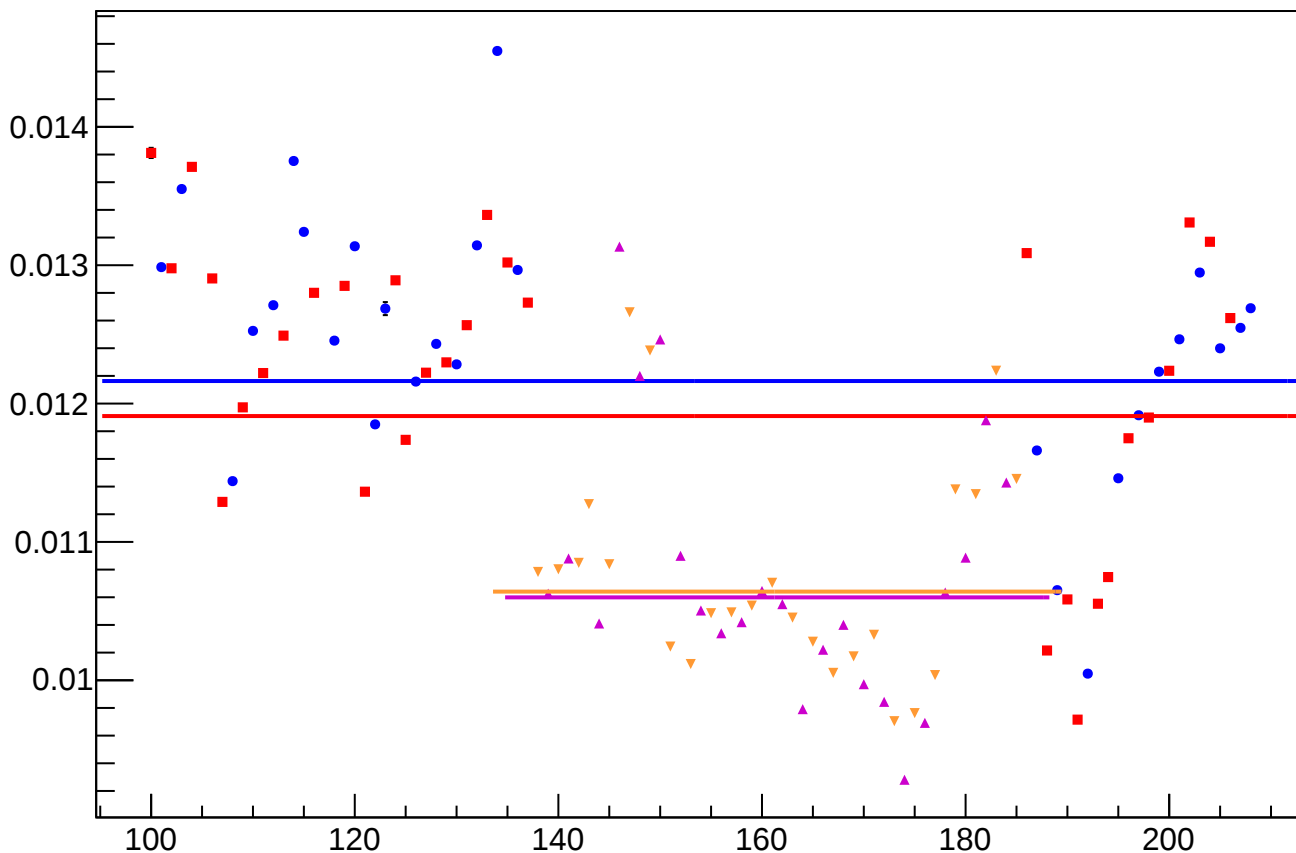
Right: 1.147 $\pm$ 0.000 χ^2/NDF : 60291785514.7/58

In: 1.413 $\pm$ 0.000 χ^2/NDF : 51328779657.8/50

Out: 1.427 $\pm$ 0.000 χ^2/NDF : 64556309789.6/55

All: 1.420 $\pm$ 0.000 χ^2/NDF : 115908601216.1

yield_bpm0i02aX_rms vs Slug, Sign Corrected



Right In: 0.012+/-0.000 χ^2/NDF : 169147.9/27

Left Out: 0.011+/-0.000 χ^2/NDF :159760.9/24

Right Out: 0.012+/-0.000 χ^2/NDF : 231027.0/30

Left In: 0.011+/-0.000 χ^2/NDF :204531.5/22

Left: 0.011+/-0.000 χ^2/NDF : 364556.9/47

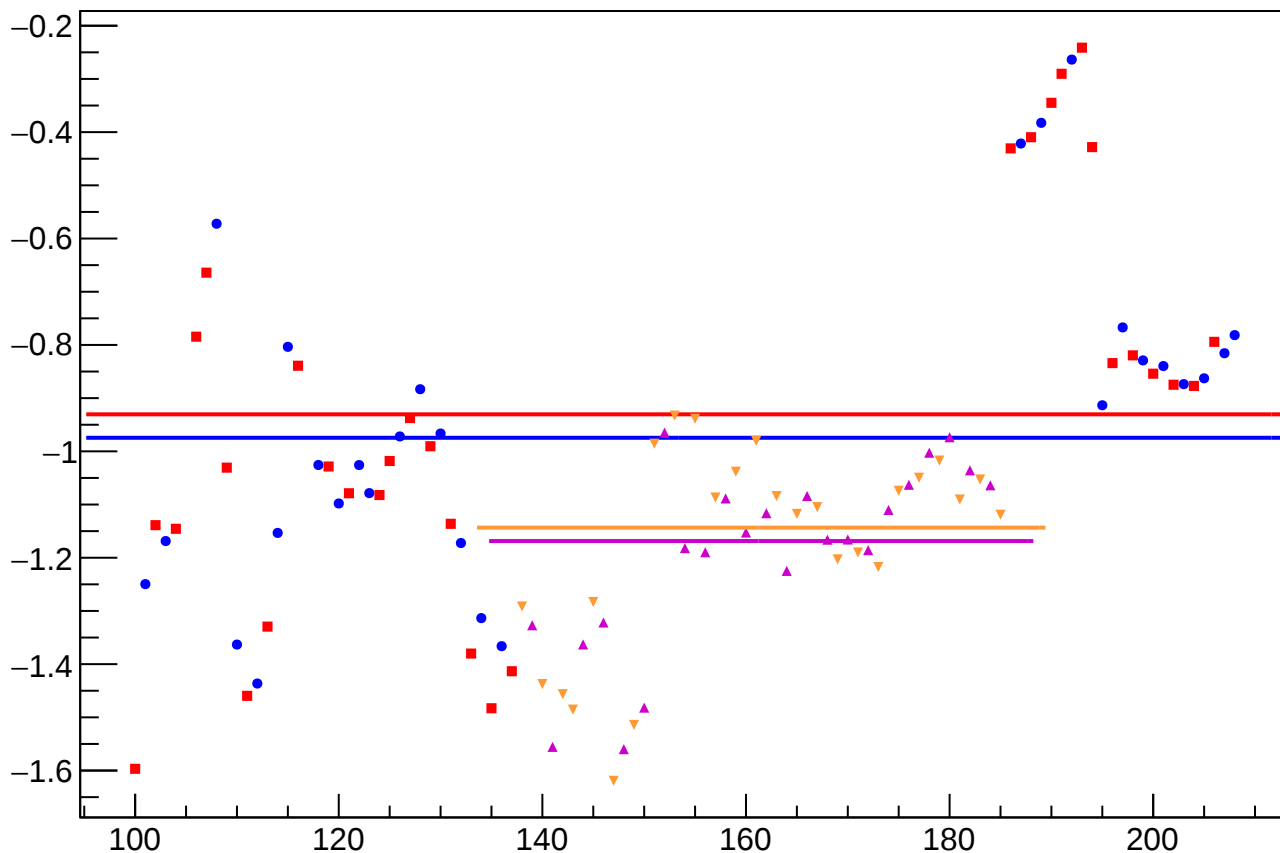
Right: 0.012+/-0.000 χ^2/NDF : 406528.5/58

In: 0.011+/-0.000 χ^2/NDF :657116.0/50

Out: 0.011+/-0.000 χ^2/NDF :590788.3/55

All: 0.011+/-0.000 χ^2/NDF : 1249016.2/106

yield_bpm0i02aY_mean vs Slug, Sign Corrected



Right In: -0.975 ± 0.000 $\chi^2/\text{NDF}: 11137407911.3/27$

Left Out: -1.143 ± 0.000 $\chi^2/\text{NDF}: 7976364534.0/24$

Right Out: -0.930 ± 0.000 $\chi^2/\text{NDF}: 15873891621.5/30$

Left In: -1.169 ± 0.000 $\chi^2/\text{NDF}: 6362643368.6/22$

Left: -1.156 ± 0.000 $\chi^2/\text{NDF}: 14424995220.9/47$

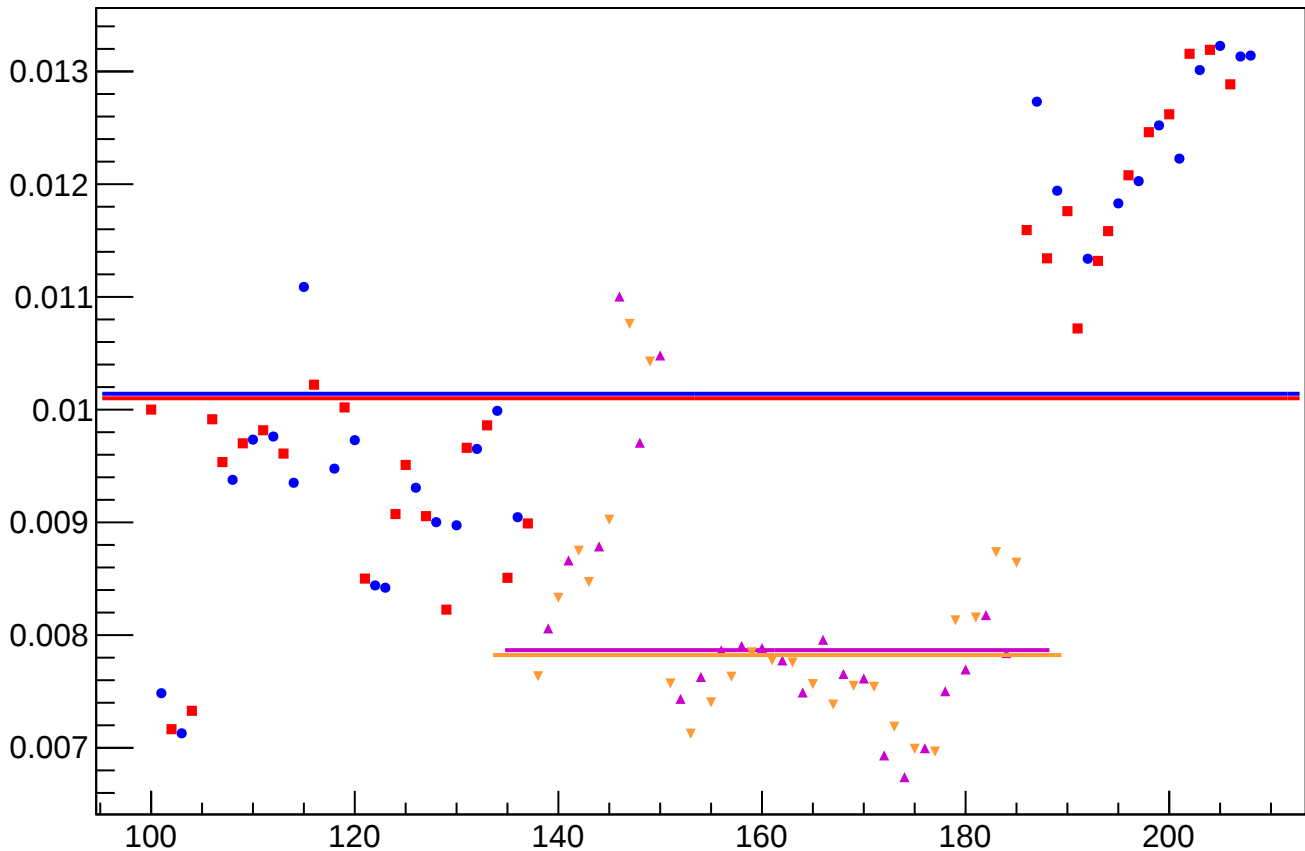
Right: -0.952 ± 0.000 $\chi^2/\text{NDF}: 27141985090.3/58$

In: -1.104 ± 0.000 $\chi^2/\text{NDF}: 20795751812.5/50$

Out: -1.073 ± 0.000 $\chi^2/\text{NDF}: 28040329849.9/55$

All: -1.088 ± 0.000 $\chi^2/\text{NDF}: 49026891981.9/100$

yield_bpm0i02aY_rms vs Slug, Sign Corrected



Right In: 0.010 $\pm$ 0.000 χ^2 /NDF: 979236.1/27

Left Out: 0.008 $\pm$ 0.000 χ^2 /NDF:336387.6/24

Right Out: 0.010 $\pm$ 0.000 χ^2 /NDF: 907845.7/30

Left In: 0.008 $\pm$ 0.000 χ^2 /NDF:379901.3/22

Left: 0.008 $\pm$ 0.000 χ^2 /NDF: 716803.8/47

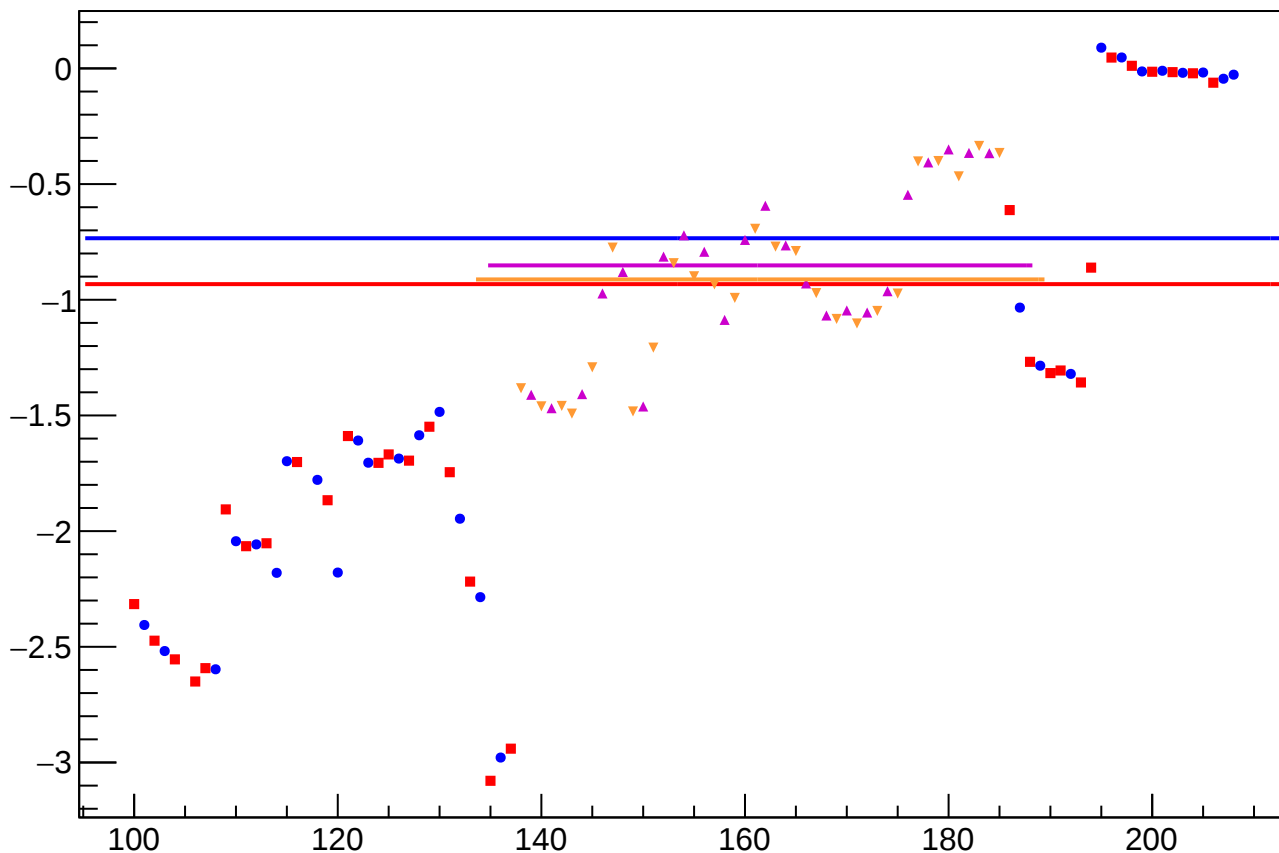
Right: 0.010 $\pm$ 0.000 χ^2 /NDF: 1887298.3/58

In: 0.009 $\pm$ 0.000 χ^2 /NDF:2263923.4/50

Out: 0.009 $\pm$ 0.000 χ^2 /NDF:2202660.5/55

All: 0.009 $\pm$ 0.000 χ^2 /NDF: 4467646.0/106

yield_bpm0i05X_mean vs Slug, Sign Corrected



Left: -0.882 $\pm$ 0.000 χ^2/NDF : 96285672564.6/47
 Right: -0.837 $\pm$ 0.000 χ^2/NDF : 723640527873.1/58
 In: -0.798 $\pm$ 0.000 χ^2/NDF : 410939469414.8/50
 Out: -0.922 $\pm$ 0.000 χ^2/NDF : 403608464539.7/55
 All: -0.862 $\pm$ 0.000 χ^2/NDF : 820733686056.5

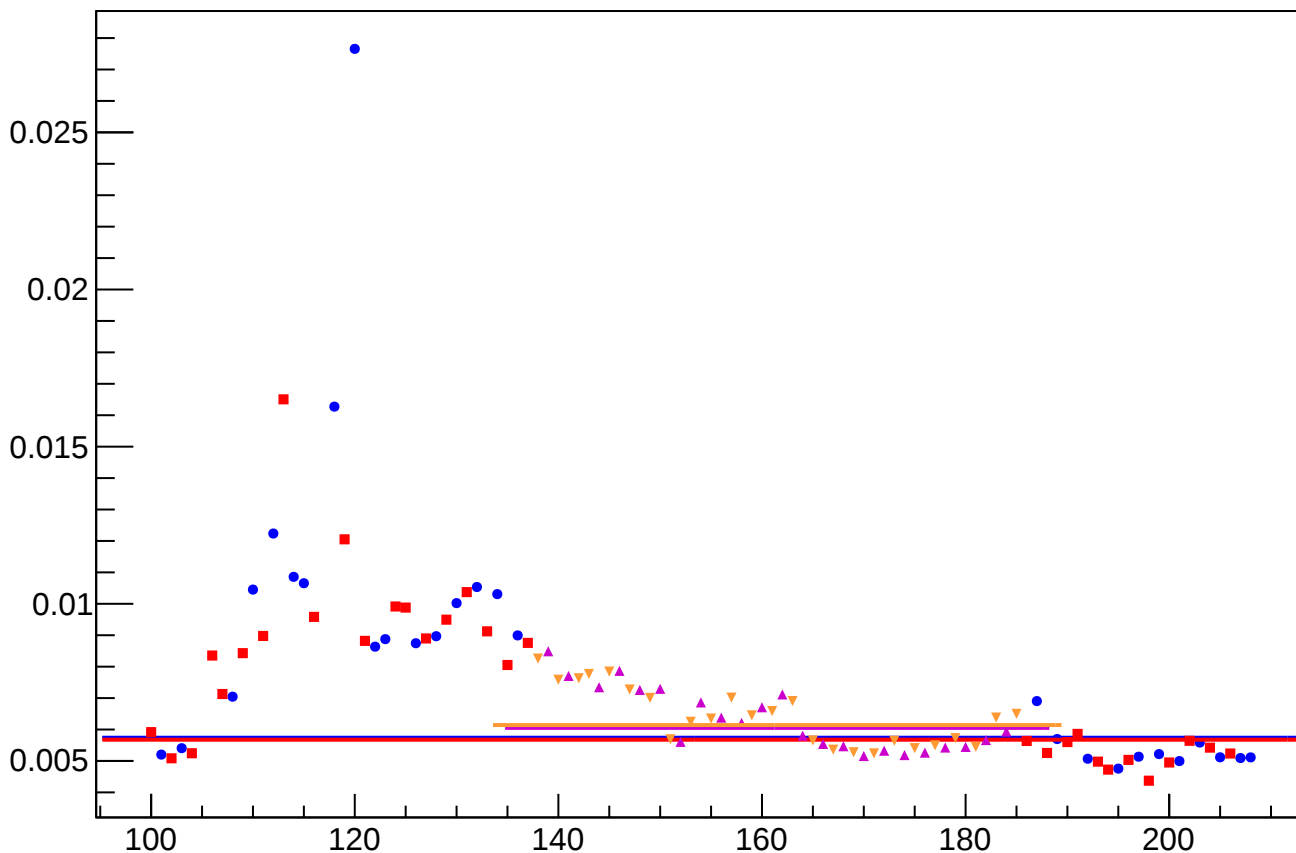
Right In: -0.734 $\pm$ 0.000 χ^2/NDF : 361789732027.7/27

Left Out: -0.912 $\pm$ 0.000 χ^2/NDF : 49039425818.1/24

Right Out: -0.932 $\pm$ 0.000 χ^2/NDF : 354482618170.5/30

Left In: -0.851 $\pm$ 0.000 χ^2/NDF : 46438446008.2/22

yield_bpm0i05X_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 2026123.7/27

Left Out: 0.006+/-0.000 χ^2/NDF : 637765.4/24

Right Out: 0.006+/-0.000 χ^2/NDF : 1895294.4/30

Left In: 0.006+/-0.000 χ^2/NDF : 697577.8/22

Left: 0.006+/-0.000 χ^2/NDF : 1338871.2/47

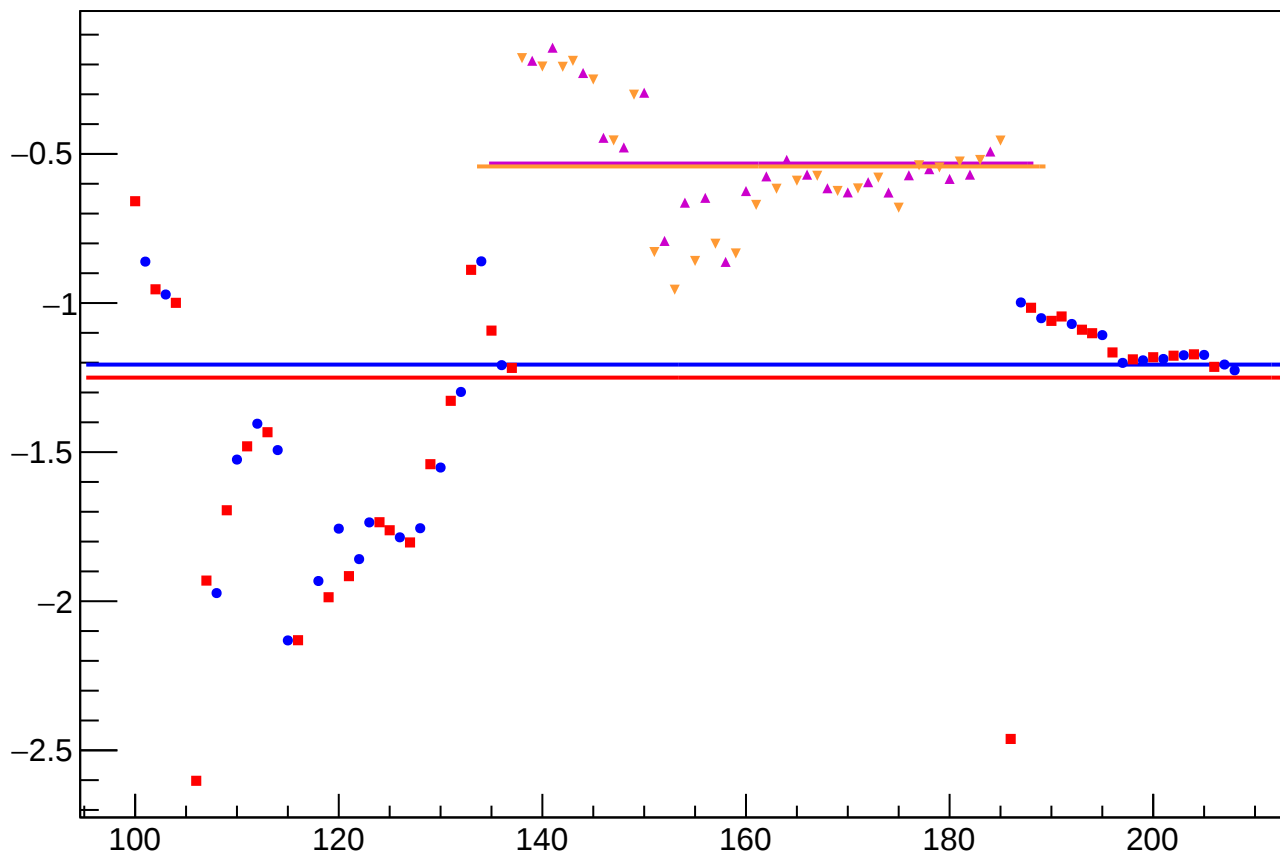
Right: 0.006+/-0.000 χ^2/NDF : 3922880.9/58

In: 0.006+/-0.000 χ^2/NDF : 2762410.3/50

Out: 0.006+/-0.000 χ^2/NDF : 2623356.6/55

All: 0.006+/-0.000 χ^2/NDF : 5385918.1/106

yield_bpm0i05Y_mean vs Slug, Sign Corrected



Right In: -1.206+/-0.000 χ^2/NDF : 26348214413.2/27

Left Out: -0.542+/-0.000 χ^2/NDF : 47268284910.3/24

Right Out: -1.250+/-0.000 χ^2/NDF : 78867915905.6/30

Left In: -0.532+/-0.000 χ^2/NDF : 30715235426.8/22

Left: -0.537+/-0.000 χ^2/NDF : 78028833870.1/47

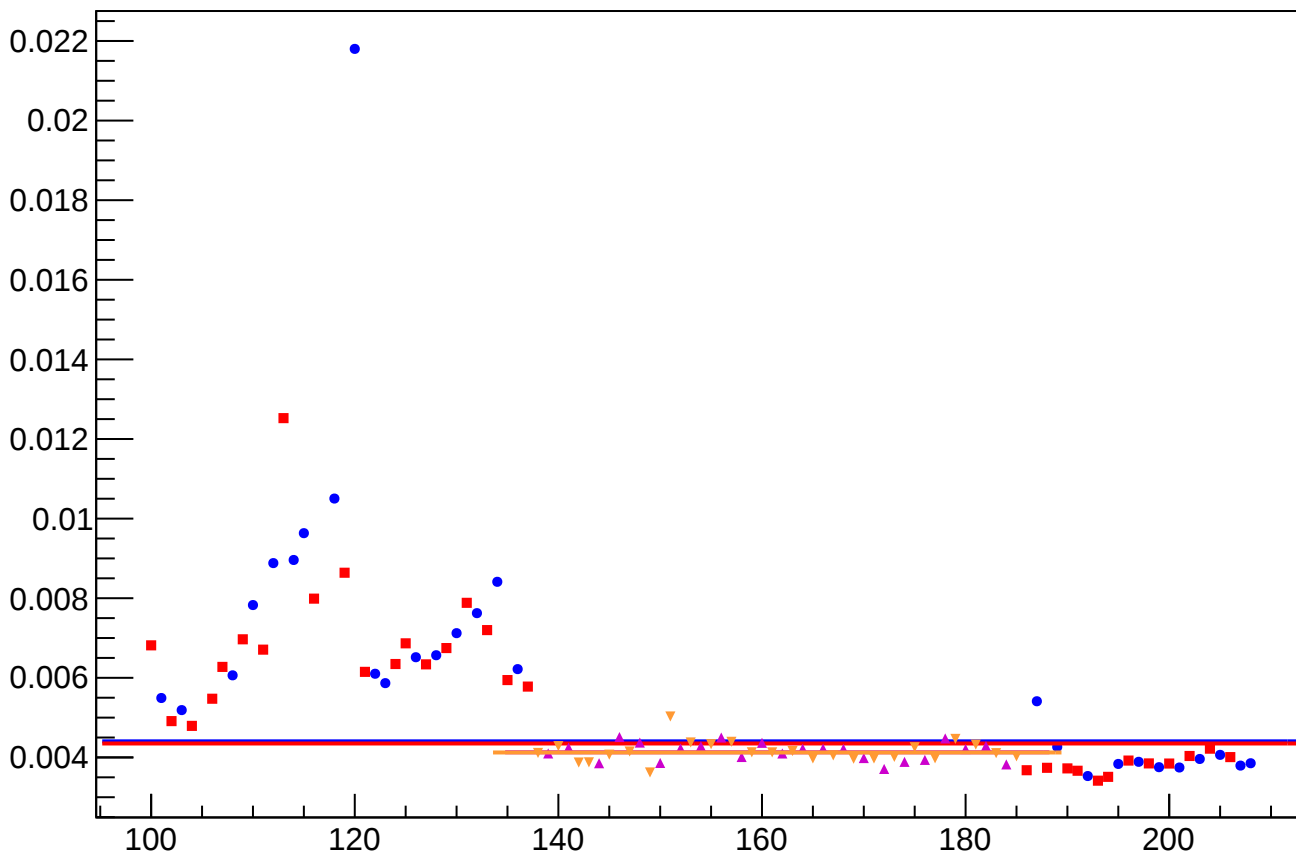
Right: -1.229+/-0.000 χ^2/NDF : 105818662707.7/58

In: -0.798+/-0.000 χ^2/NDF : 224620287806.8/50

Out: -0.824+/-0.000 χ^2/NDF : 324374208491.5/55

All: -0.811+/-0.000 χ^2/NDF : 549556410899.9

yield_bpm0i05Y_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 2028326.2/27

Left Out: 0.004+/-0.000 χ^2/NDF :113033.9/24

Right Out: 0.004+/-0.000 χ^2/NDF : 1841968.1/30

Left In: 0.004+/-0.000 χ^2/NDF :93111.2/22

Left: 0.004+/-0.000 χ^2/NDF : 206172.1/47

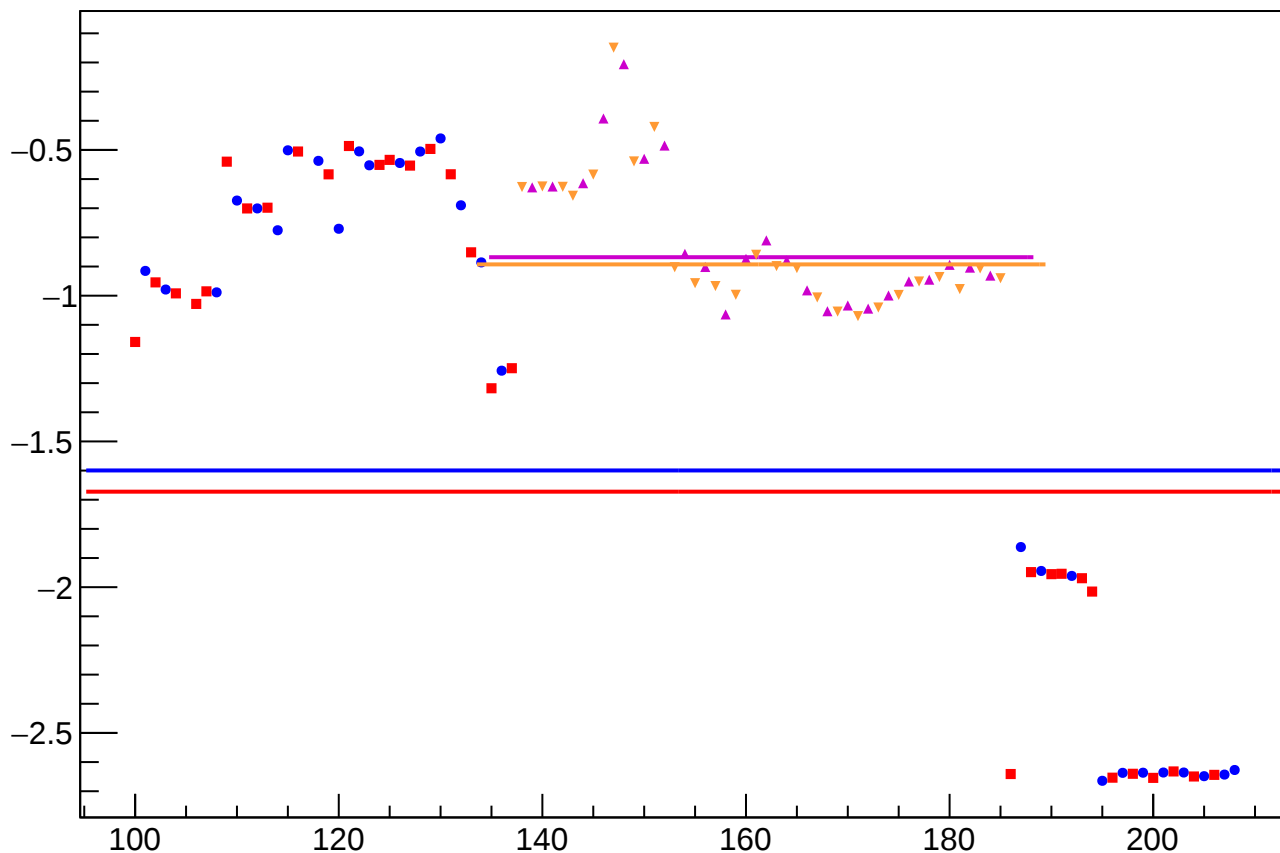
Right: 0.004+/-0.000 χ^2/NDF : 3872125.6/58

In: 0.004+/-0.000 χ^2/NDF :2176936.4/50

Out: 0.004+/-0.000 χ^2/NDF :1995315.4/55

All: 0.004+/-0.000 χ^2/NDF : 4173117.9/106

yield_bpm0i07X_mean vs Slug, Sign Corrected



Right In: -1.600 $\pm$ 0.000

χ^2/NDF : 254877841172.1/27

Left: -0.880 $\pm$ 0.000

χ^2/NDF : 84980637247.0/47

Left Out: -0.893 $\pm$ 0.000

χ^2/NDF : 40787012603.8/24

Right: -1.642 $\pm$ 0.000

χ^2/NDF : 560709600610.7/58

Right Out: -1.672 $\pm$ 0.000

χ^2/NDF : 304439397227.0/30

In: -1.078 $\pm$ 0.000

χ^2/NDF : 470471792525.1/50

Out: -1.172 $\pm$ 0.000

χ^2/NDF : 590823125228.1/55

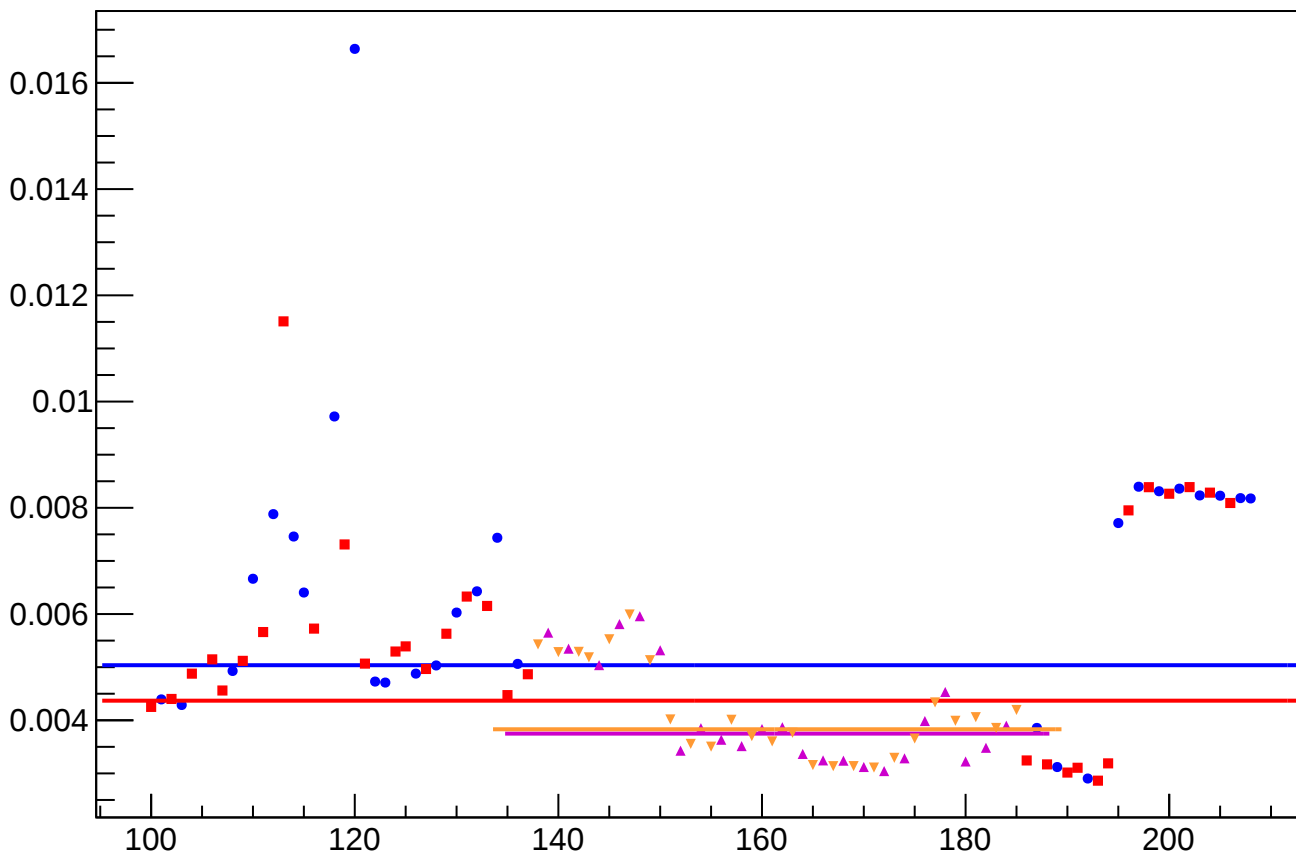
Left In: -0.868 $\pm$ 0.000

χ^2/NDF : 43853190177.2/22

All: -1.128 $\pm$ 0.000

χ^2/NDF : 1068632449141

yield_bpm0i07X_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 3848795.1/27

Left Out: 0.004+/-0.000 χ^2/NDF :1179801.7/24

Right Out: 0.004+/-0.000 χ^2/NDF : 3789801.6/30

Left In: 0.004+/-0.000 χ^2/NDF :1288490.4/22

Left: 0.004+/-0.000 χ^2/NDF : 2475792.1/47

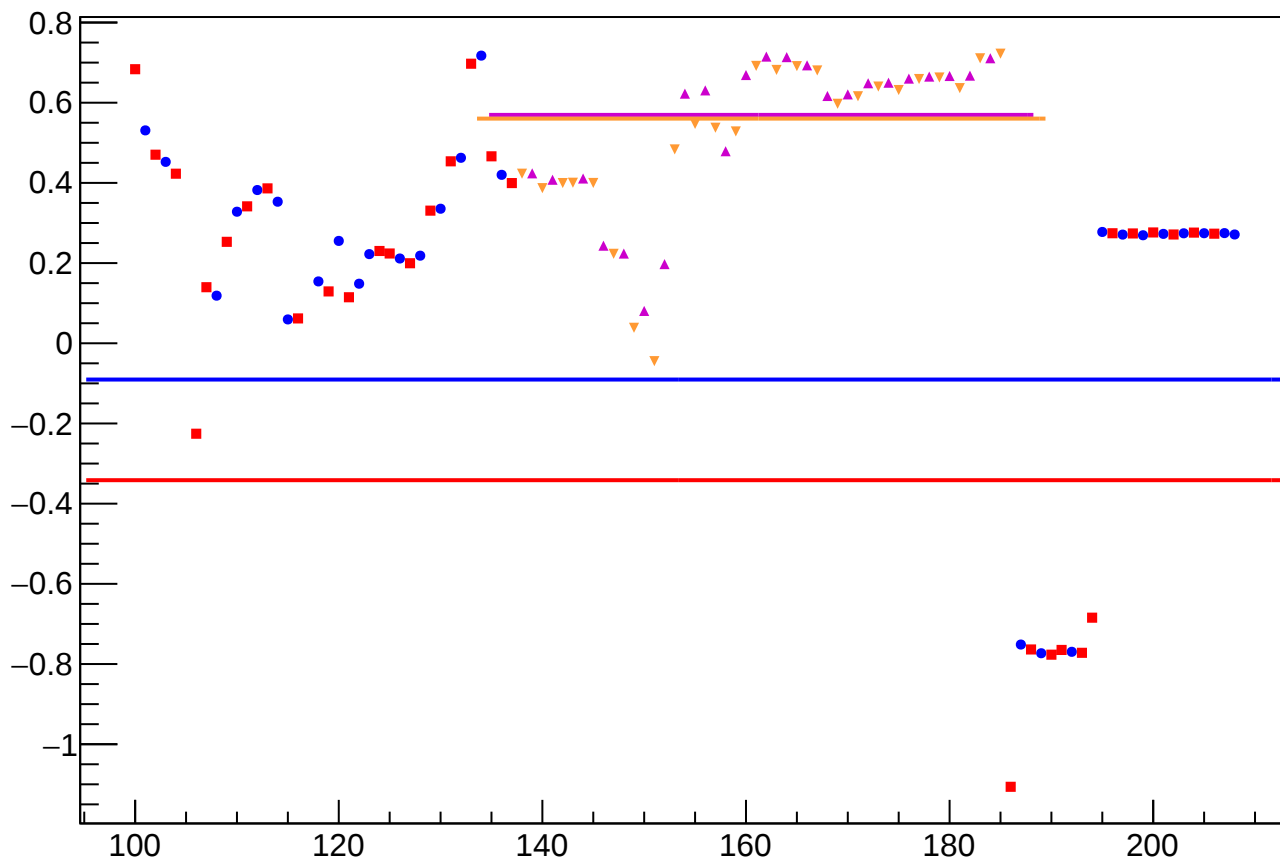
Right: 0.005+/-0.000 χ^2/NDF : 7872842.1/58

In: 0.004+/-0.000 χ^2/NDF :6201810.4/50

Out: 0.004+/-0.000 χ^2/NDF :5203717.5/55

All: 0.004+/-0.000 χ^2/NDF : 11420562.1/106

yield_bpm0i07Y_mean vs Slug, Sign Corrected



Right In: -0.090 ± 0.000 $\chi^2/\text{NDF}: 285517875558.9/27$

Left Out: 0.560 ± 0.000 $\chi^2/\text{NDF}: 45205806387.2/24$

Right Out: -0.341 ± 0.000 $\chi^2/\text{NDF}: 452868098043.7/30$

Left In: 0.570 ± 0.000 $\chi^2/\text{NDF}: 42104067973.0/22$

Left: 0.565 ± 0.000 $\chi^2/\text{NDF}: 87378176036.1/47$

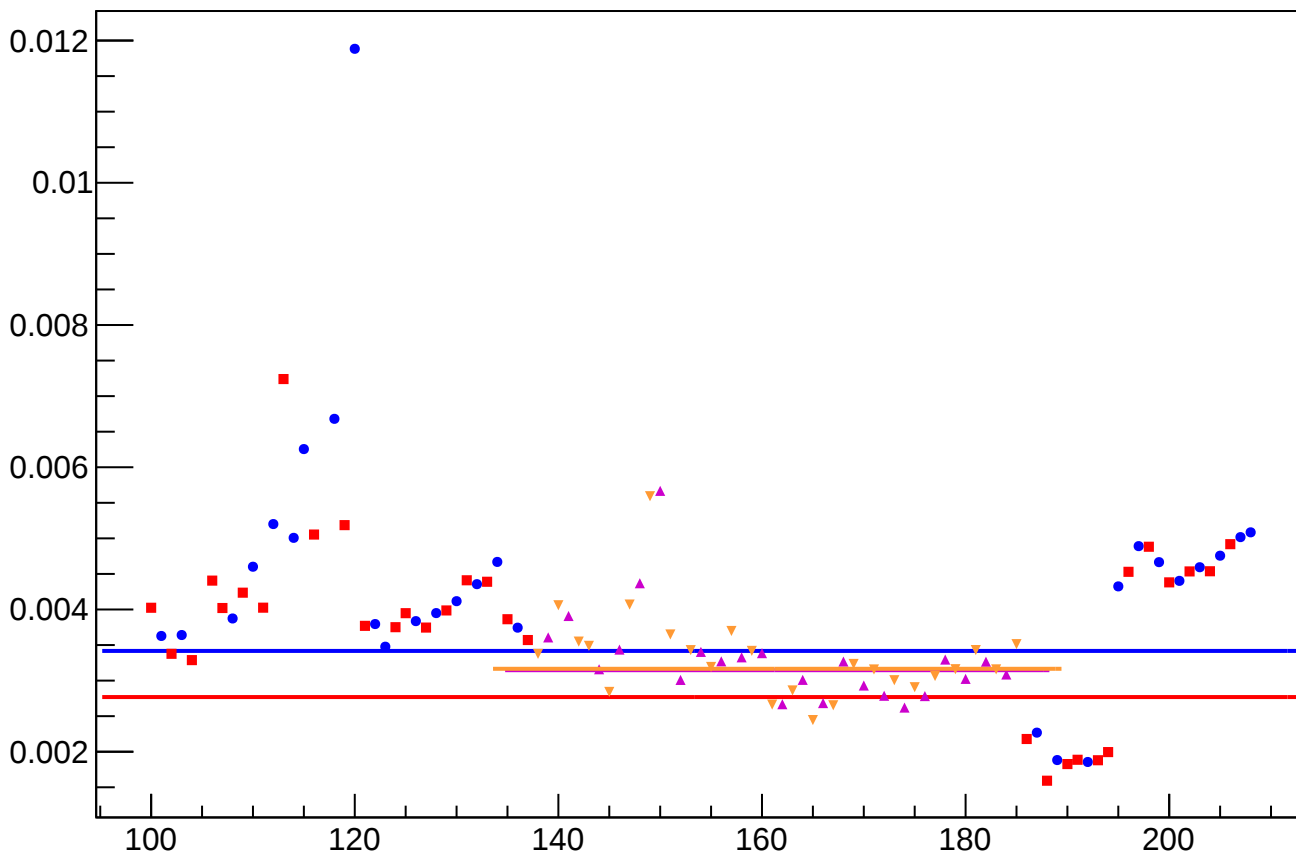
Right: -0.241 ± 0.000 $\chi^2/\text{NDF}: 776361396135.6/58$

In: 0.311 ± 0.000 $\chi^2/\text{NDF}: 593567750379.4/50$

Out: 0.125 ± 0.000 $\chi^2/\text{NDF}: 1133271359172.8/55$

All: 0.209 ± 0.000 $\chi^2/\text{NDF}: 1775447057889.$

yield_bpm0i07Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 3424088.2/27

Left Out: 0.003+/-0.000 χ^2/NDF : 744886.7/24

Right Out: 0.003+/-0.000 χ^2/NDF : 4508033.4/30

Left In: 0.003+/-0.000 χ^2/NDF : 716402.8/22

Left: 0.003+/-0.000 χ^2/NDF : 1461906.1/47

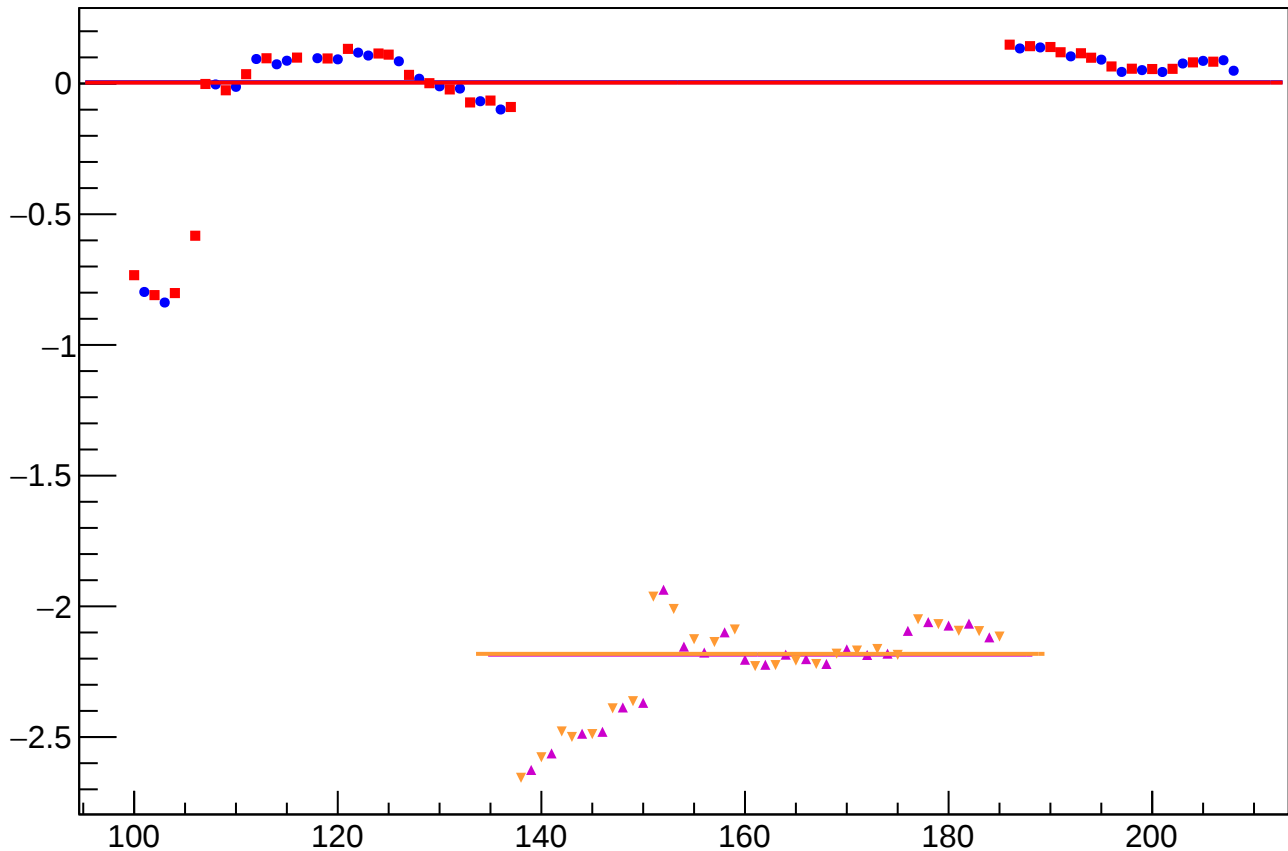
Right: 0.003+/-0.000 χ^2/NDF : 8439343.1/58

In: 0.003+/-0.000 χ^2/NDF : 4230103.2/50

Out: 0.003+/-0.000 χ^2/NDF : 5499664.0/55

All: 0.003+/-0.000 χ^2/NDF : 9947734.3/106

yield_bpm1i02X_mean vs Slug, Sign Corrected



Right In: 0.005+/-0.000

χ^2/NDF : 5894125218.2/27

Left: -2.183+/-0.000

χ^2/NDF : 7382310821.5/47

Left Out: -2.182+/-0.000

χ^2/NDF : 4008829567.0/24

Right: 0.004+/-0.000

χ^2/NDF : 12848136056.0/58

Right Out: 0.004+/-0.000

χ^2/NDF : 6953879443.2/30

In: -1.212+/-0.000

χ^2/NDF : 344407487642.9/50

Out: -1.204+/-0.000

χ^2/NDF : 369547659856.1/55

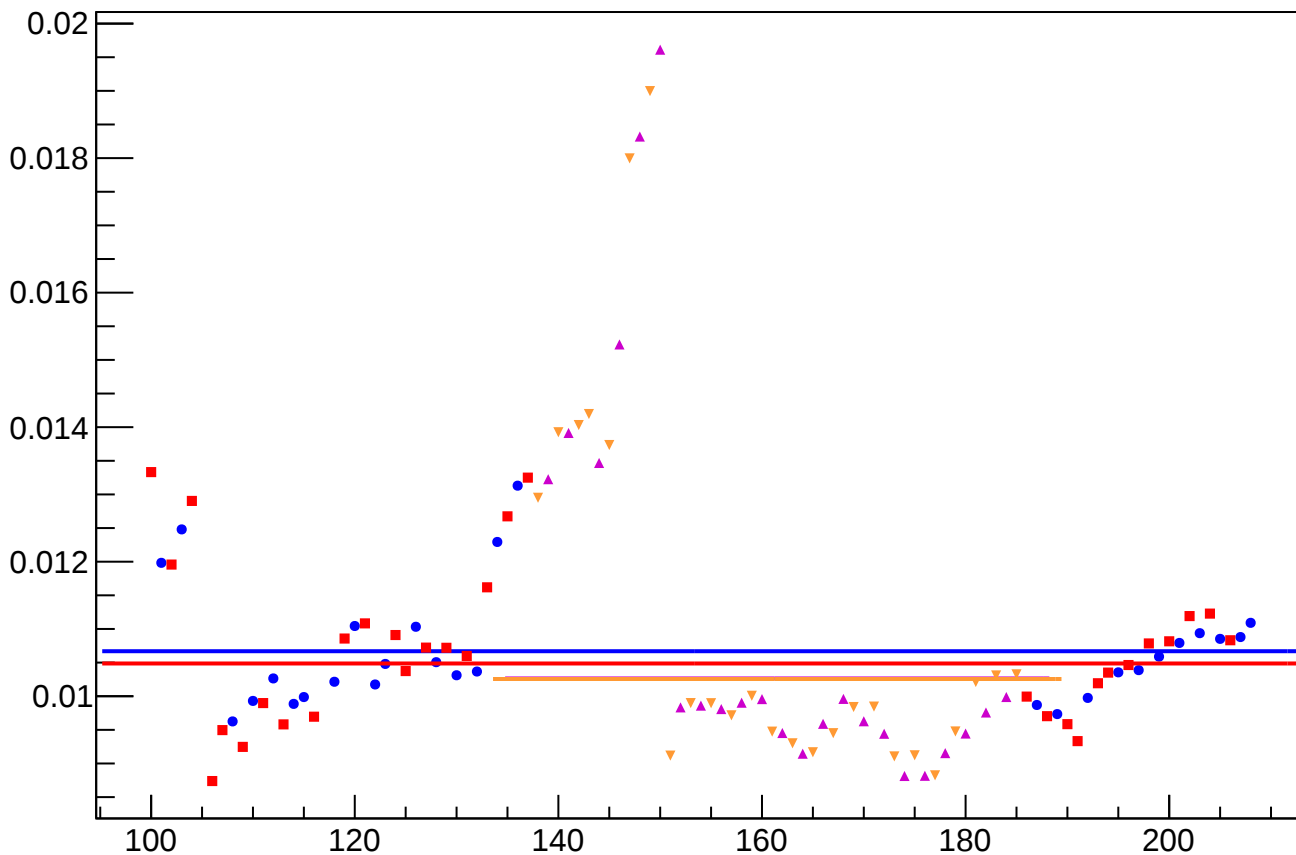
Left In: -2.185+/-0.000

χ^2/NDF : 3372742534.3/22

All: -1.208+/-0.000

χ^2/NDF : 713966288238.2

yield_bpm1i02X_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 153779.9/27

Left Out: 0.010+/-0.000 χ^2/NDF :1270617.6/24

Right Out: 0.010+/-0.000 χ^2/NDF : 223320.3/30

Left In: 0.010+/-0.000 χ^2/NDF :1340264.2/22

Left: 0.010+/-0.000 χ^2/NDF : 2610893.2/47

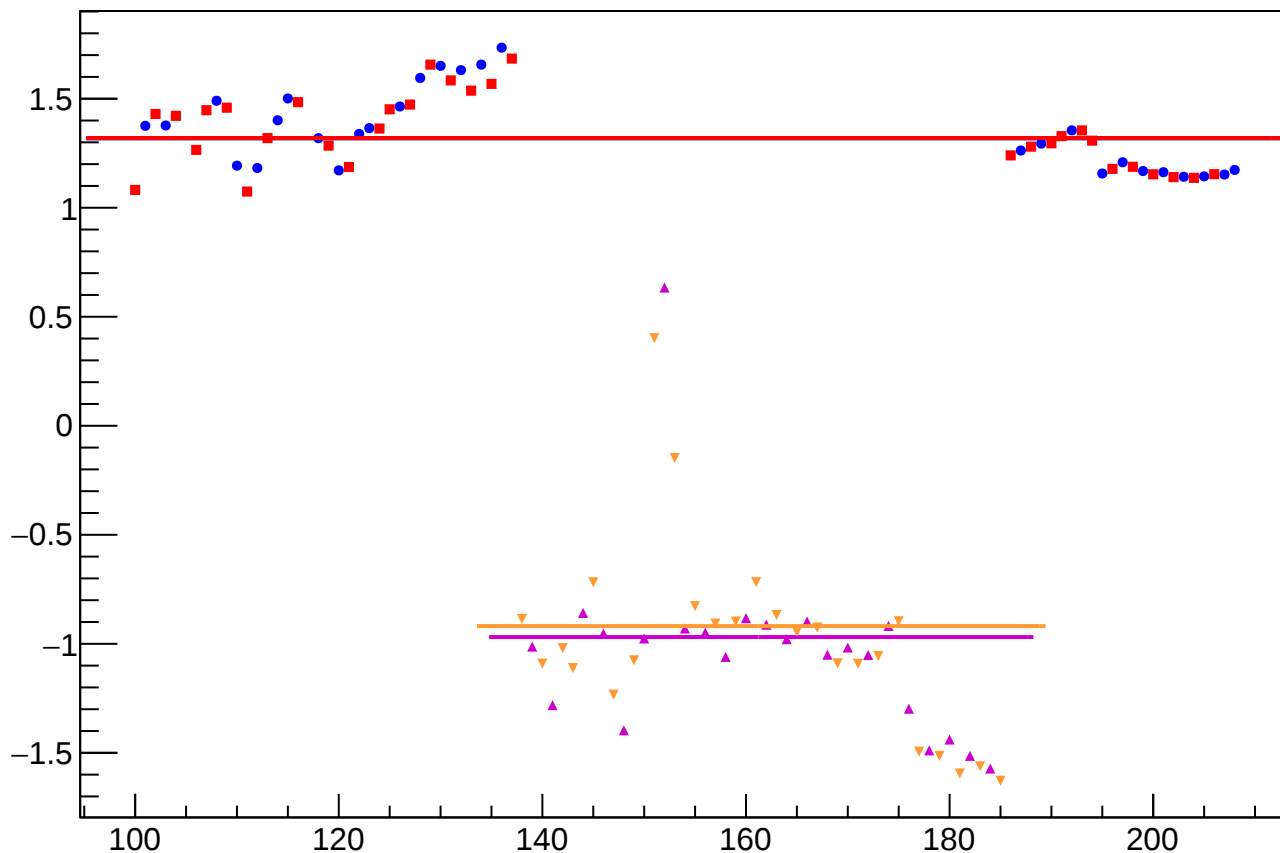
Right: 0.011+/-0.000 χ^2/NDF : 381445.9/58

In: 0.010+/-0.000 χ^2/NDF :1516938.9/50

Out: 0.010+/-0.000 χ^2/NDF :1501928.6/55

All: 0.010+/-0.000 χ^2/NDF : 3020976.6/106

yield_bpm1i02Y_mean vs Slug, Sign Corrected



Right In: 1.318+/-0.000

χ^2/NDF : 7640841365.1/27

Left: -0.943+/-0.000

χ^2/NDF : 110825900215.1/47

Left Out: -0.919+/-0.000

χ^2/NDF : 55622252895.8/24

Right: 1.319+/-0.000

χ^2/NDF : 13442613598.5/58

Right Out: 1.320+/-0.000

χ^2/NDF : 5801417115.6/30

In: 0.190+/-0.000

χ^2/NDF : 697465007710.3/50

Out: 0.225+/-0.000

χ^2/NDF : 707298510960.9/55

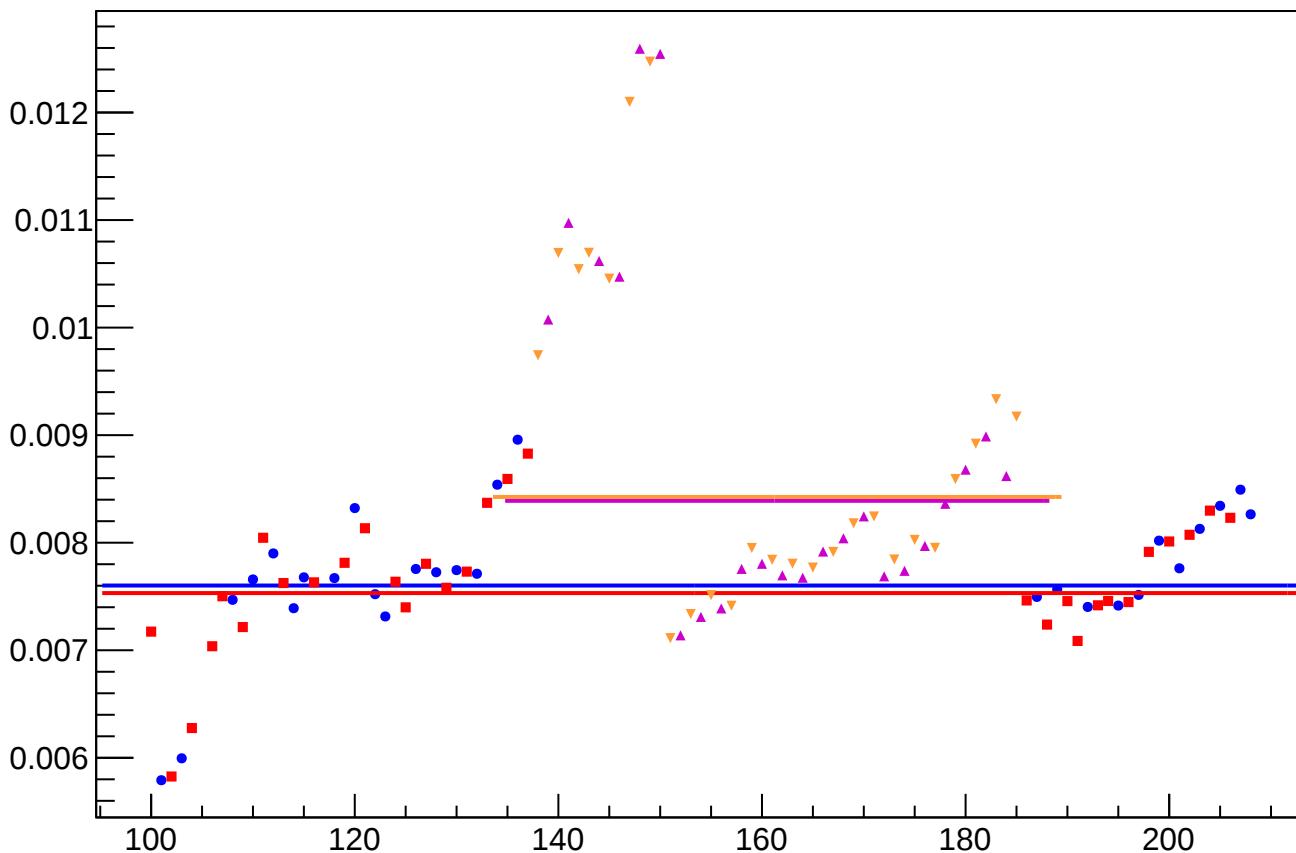
Left In: -0.969+/-0.000

χ^2/NDF : 54895002535.8/22

All: 0.208+/-0.000

χ^2/NDF : 1405070490739.

yield_bpm1i02Y_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 297408.7/27

Left Out: 0.008+/-0.000 χ^2/NDF : 792337.0/24

Right Out: 0.008+/-0.000 χ^2/NDF : 224744.9/30

Left In: 0.008+/-0.000 χ^2/NDF : 839880.4/22

Left: 0.008+/-0.000 χ^2/NDF : 1632536.0/47

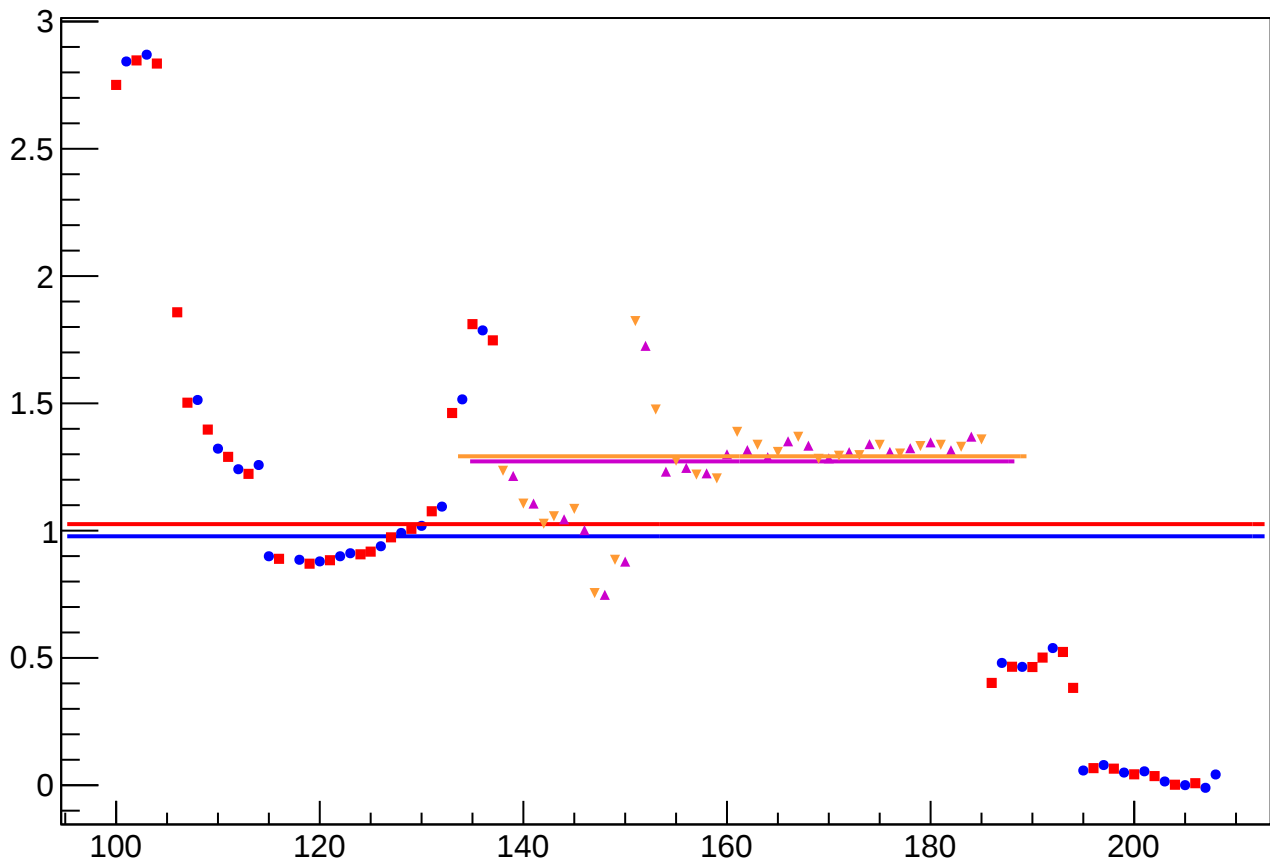
Right: 0.008+/-0.000 χ^2/NDF : 523408.0/58

In: 0.008+/-0.000 χ^2/NDF : 1287903.9/50

Out: 0.008+/-0.000 χ^2/NDF : 1223033.1/55

All: 0.008+/-0.000 χ^2/NDF : 2511170.5/106

yield_bpm1i04X_mean vs Slug, Sign Corrected



Right In: 0.978 $\pm$ 0.000 χ^2 /NDF: 126187796810.6/27

Left Out: 1.292 $\pm$ 0.000 χ^2 /NDF:9305298695.5/24

Right Out: 1.026 $\pm$ 0.000 χ^2 /NDF: 117960675988.9/30

Left In: 1.272 $\pm$ 0.000 χ^2 /NDF:7573930981.2/22

Left: 1.282 $\pm$ 0.000 χ^2 /NDF: 16930321584.4/47

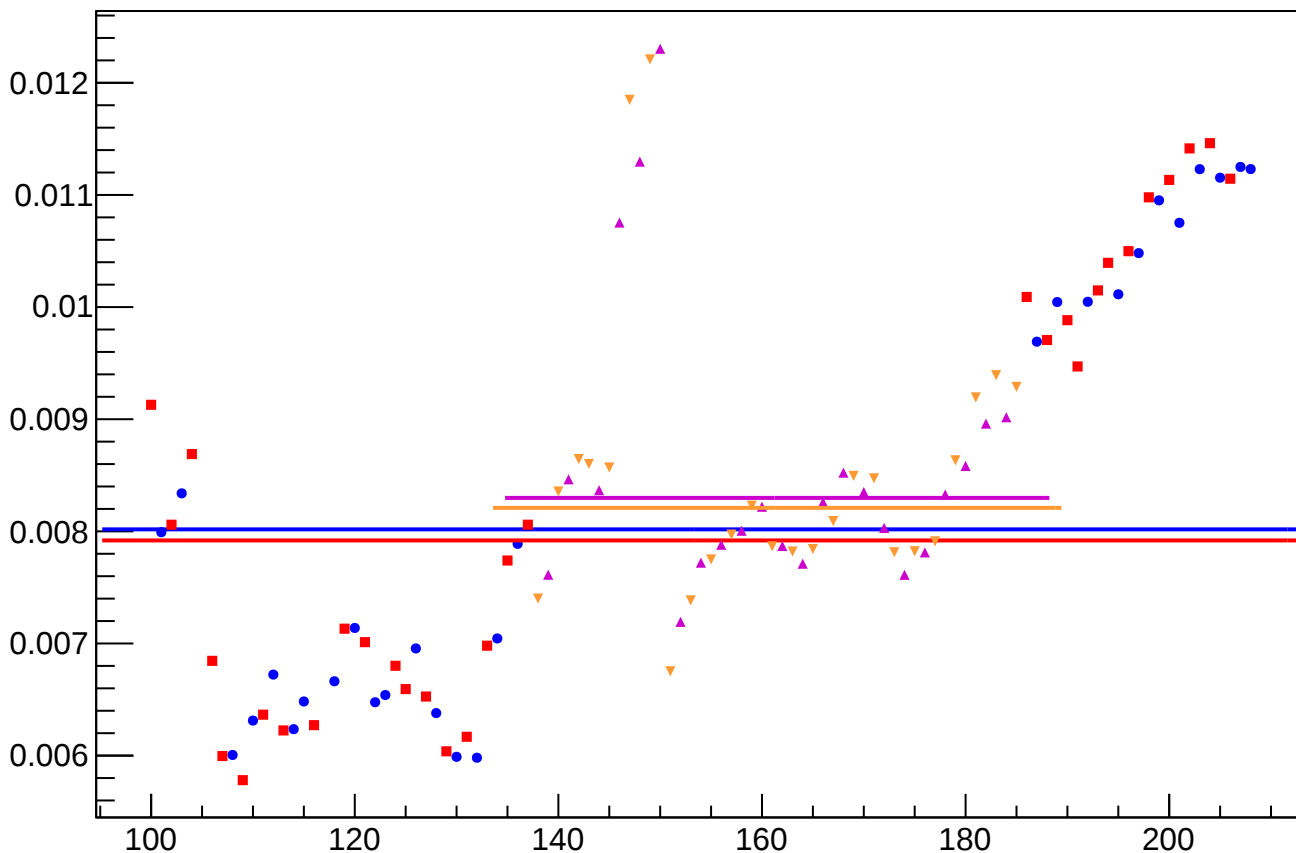
Right: 1.003 $\pm$ 0.000 χ^2 /NDF: 244398589857.6/58

In: 1.135 $\pm$ 0.000 χ^2 /NDF:143559684085.3/50

Out: 1.169 $\pm$ 0.000 χ^2 /NDF:135911670204.4/55

All: 1.153 $\pm$ 0.000 χ^2 /NDF: 279735024377.3

yield_bpm1i04X_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 1592051.4/27

Left Out: 0.008+/-0.000 χ^2/NDF : 478864.9/24

Right Out: 0.008+/-0.000 χ^2/NDF : 1691699.6/30

Left In: 0.008+/-0.000 χ^2/NDF : 462022.1/22

Left: 0.008+/-0.000 χ^2/NDF : 942877.3/47

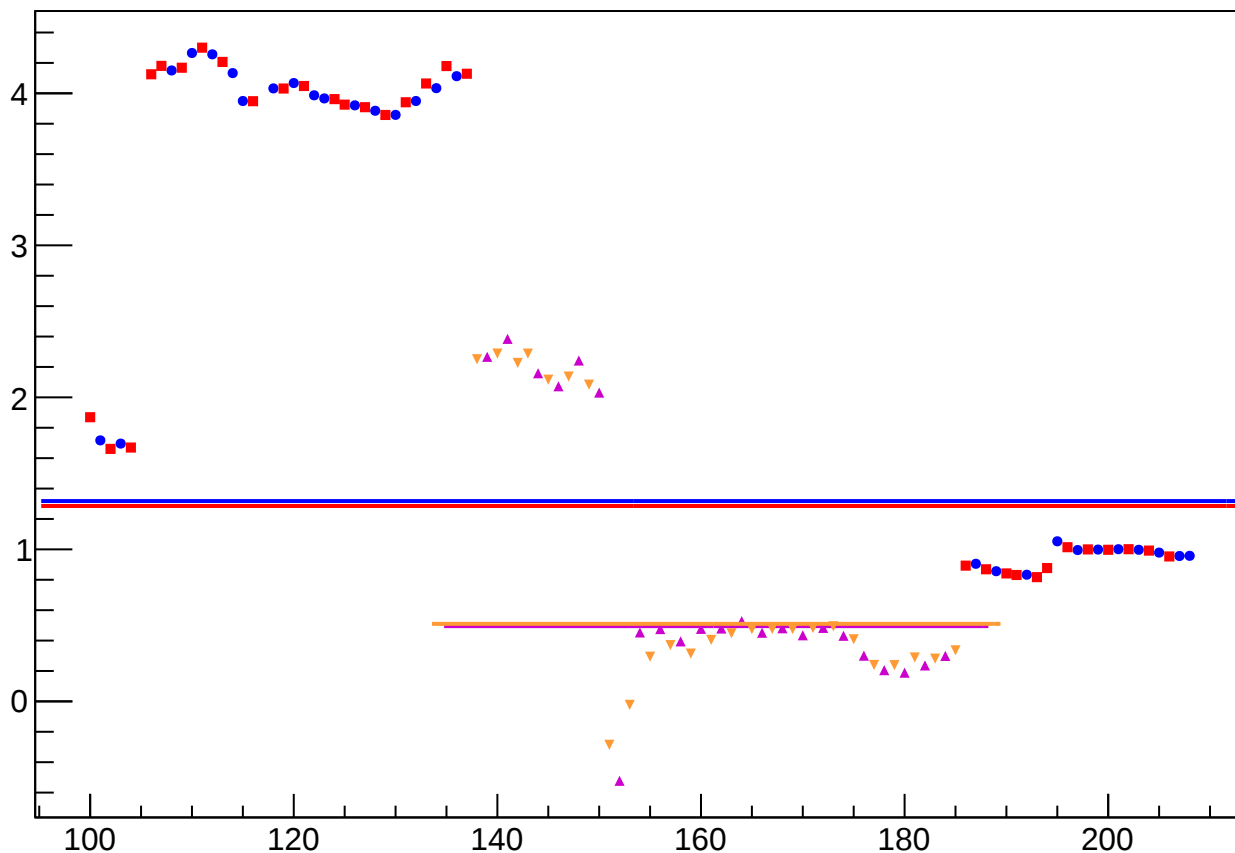
Right: 0.008+/-0.000 χ^2/NDF : 3285885.6/58

In: 0.008+/-0.000 χ^2/NDF : 2071902.4/50

Out: 0.008+/-0.000 χ^2/NDF : 2191129.8/55

All: 0.008+/-0.000 χ^2/NDF : 4267102.6/106

yield_bpm1i04Y_mean vs Slug, Sign Corrected



Right In: 1.318 $\pm$ 0.000

χ^2 /NDF: 1487026980578.5/27

Left: 0.503 $\pm$ 0.000 χ^2 /NDF: 543767842878.3/47

Right: 1.301 $\pm$ 0.000 χ^2 /NDF: 3171871805088.9/58

Left Out: 0.510 $\pm$ 0.000

χ^2 /NDF: 274818814912.4/24

In: 1.053 $\pm$ 0.000 χ^2 /NDF: 2103604238431.2/50

Right Out: 1.285 $\pm$ 0.000

χ^2 /NDF: 1683971163203.7/30

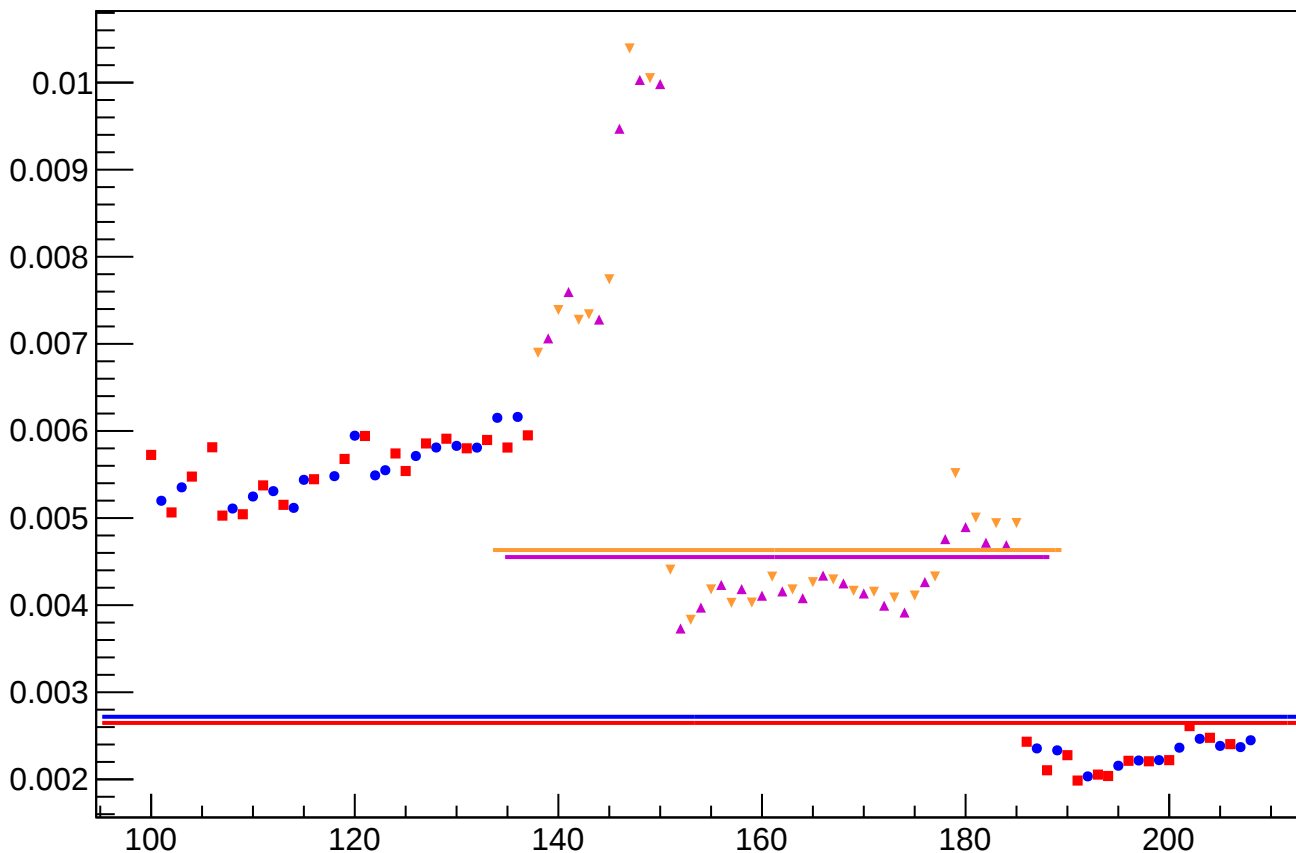
Out: 1.046 $\pm$ 0.000 χ^2 /NDF: 2281836908965.6/55

Left In: 0.495 $\pm$ 0.000

χ^2 /NDF: 268863202792.4/22

All: 1.049 $\pm$ 0.000 χ^2 /NDF: 4385488949736.

yield_bpm1i04Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 4129693.4/27

Left Out: 0.005+/-0.000 χ^2/NDF :2114007.7/24

Right Out: 0.003+/-0.000 χ^2/NDF : 4438535.5/30

Left In: 0.005+/-0.000 χ^2/NDF :2237666.9/22

Left: 0.005+/-0.000 χ^2/NDF : 4356682.7/47

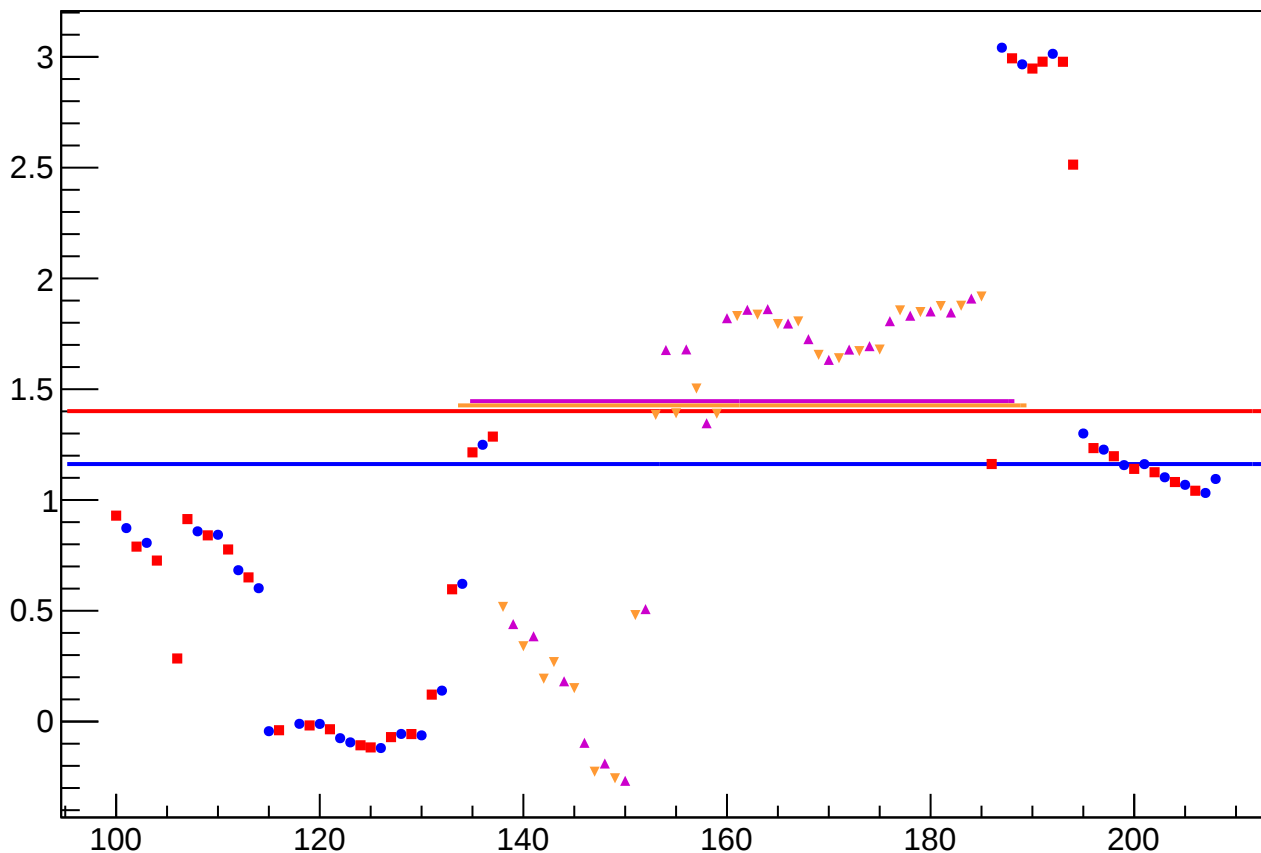
Right: 0.003+/-0.000 χ^2/NDF : 8576531.0/58

In: 0.003+/-0.000 χ^2/NDF :9822544.4/50

Out: 0.003+/-0.000 χ^2/NDF :10787904.1/55

All: 0.003+/-0.000 χ^2/NDF : 20616448.5/106

yield_bpm1i06X_mean vs Slug, Sign Corrected



Right In: 1.162 $\pm$ 0.000

χ^2 /NDF: 72794159230.0/27

Left: 1.436 $\pm$ 0.000 χ^2 /NDF: 103768857952.7/47

Right: 1.287 $\pm$ 0.000 χ^2 /NDF: 175372546064.4/58

Left Out: 1.427 $\pm$ 0.000

χ^2 /NDF: 49990787038.3/24

In: 1.339 $\pm$ 0.000 χ^2 /NDF: 130736472864.5/50

Right Out: 1.401 $\pm$ 0.000

χ^2 /NDF: 100090758171.1/30

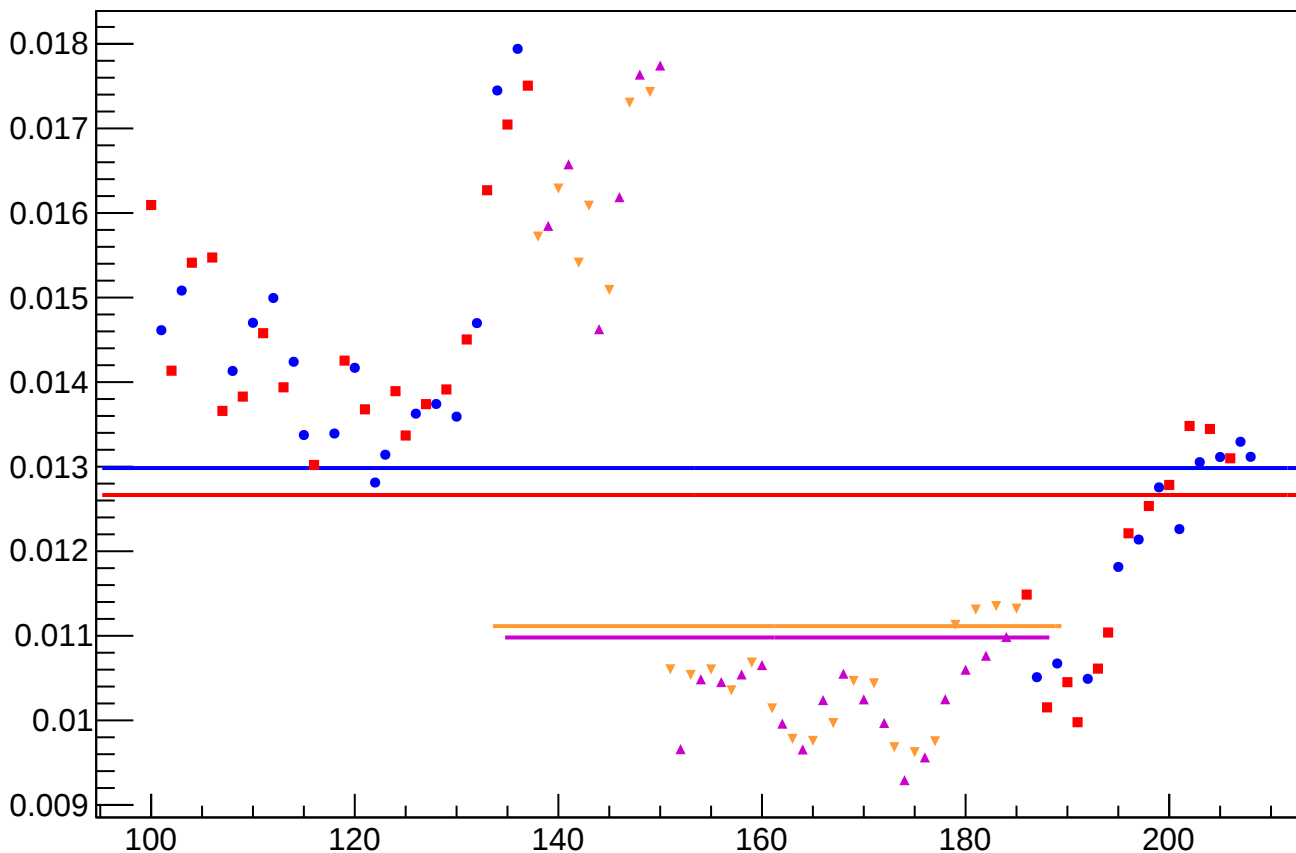
Out: 1.417 $\pm$ 0.000 χ^2 /NDF: 150118805423.1/55

Left In: 1.446 $\pm$ 0.000

χ^2 /NDF: 53752493130.3/22

All: 1.379 $\pm$ 0.000 χ^2 /NDF: 281548846643.9

yield_bpm1i06X_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 436163.1/27

Left Out: 0.011+/-0.000 χ^2/NDF :1227493.2/24

Right Out: 0.013+/-0.000 χ^2/NDF : 560512.1/30

Left In: 0.011+/-0.000 χ^2/NDF :1264827.0/22

Left: 0.011+/-0.000 χ^2/NDF : 2494847.1/47

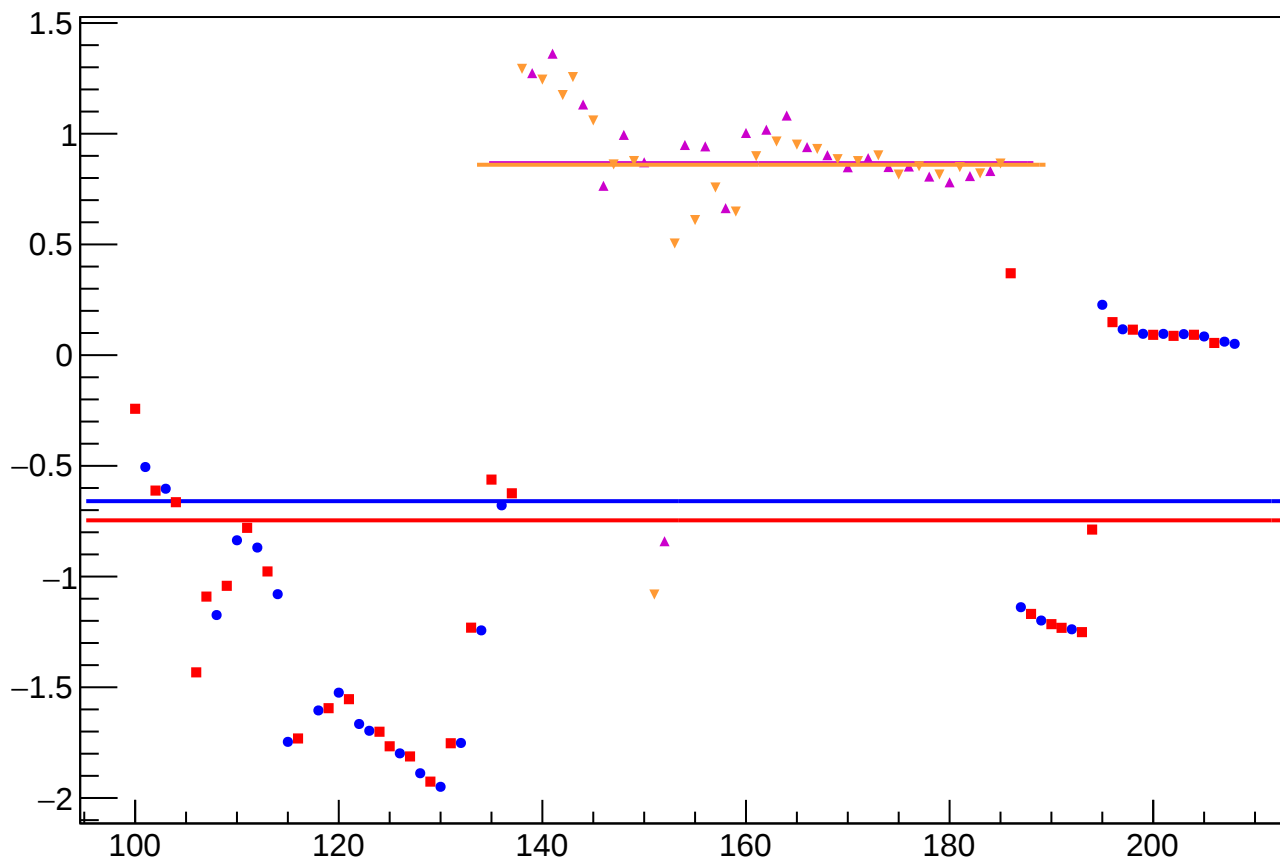
Right: 0.013+/-0.000 χ^2/NDF : 1005549.4/58

In: 0.012+/-0.000 χ^2/NDF :2118329.7/50

Out: 0.012+/-0.000 χ^2/NDF :2054850.2/55

All: 0.012+/-0.000 χ^2/NDF : 4173256.9/106

yield_bpm1i06Y_mean vs Slug, Sign Corrected



Right In: -0.659+/-0.000

χ^2/NDF : 177685317968.8/27

Left: 0.863+/-0.000 χ^2/NDF : 273407894621.9/47

Right: -0.704+/-0.000 χ^2/NDF : 335601107492.8/58

Left Out: 0.860+/-0.000

χ^2/NDF : 126335891175.4/24

In: 0.525+/-0.000 χ^2/NDF : 955021679682.8/50

Right Out: -0.746+/-0.000

χ^2/NDF : 156567645063.5/30

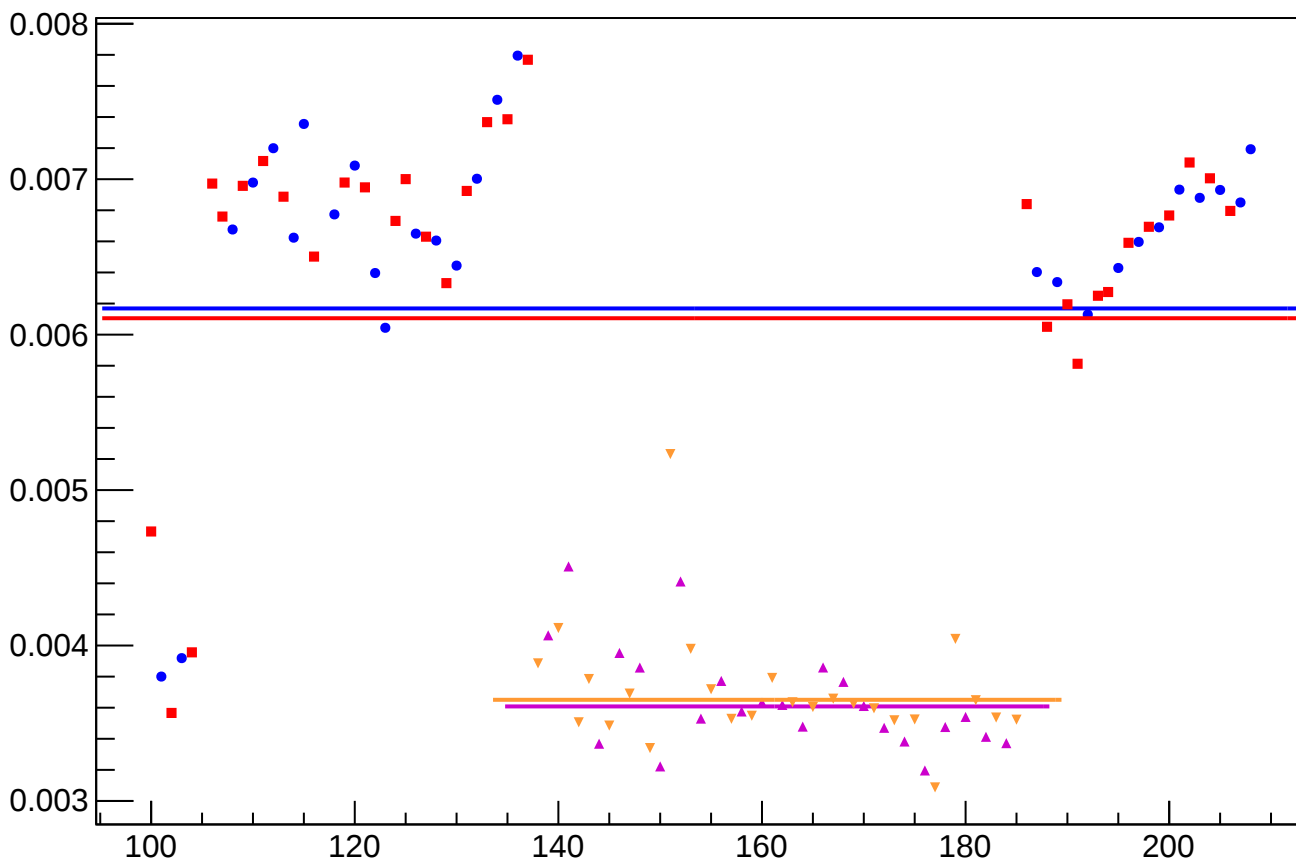
Out: 0.494+/-0.000 χ^2/NDF : 1020298484170.4/55

Left In: 0.867+/-0.000

χ^2/NDF : 147039402944.6/22

All: 0.509+/-0.000 χ^2/NDF : 1976112374149.0

yield_bpm1i06Y_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 1023551.3/27

Left Out: 0.004+/-0.000 χ^2/NDF :237262.6/24

Right Out: 0.006+/-0.000 χ^2/NDF : 1088818.2/30

Left In: 0.004+/-0.000 χ^2/NDF :227861.4/22

Left: 0.004+/-0.000 χ^2/NDF : 467360.2/47

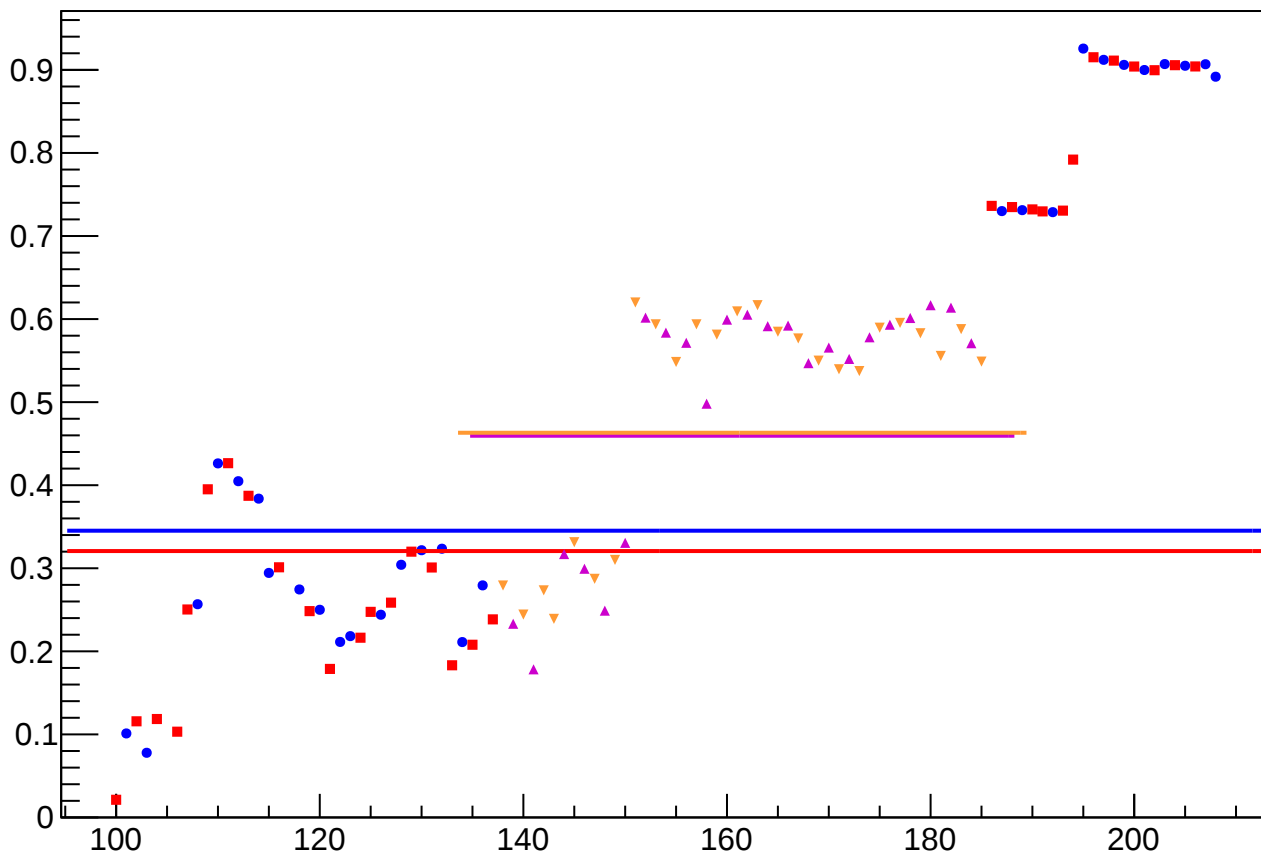
Right: 0.006+/-0.000 χ^2/NDF : 2113795.1/58

In: 0.004+/-0.000 χ^2/NDF :4797218.7/50

Out: 0.004+/-0.000 χ^2/NDF :4771550.6/55

All: 0.004+/-0.000 χ^2/NDF : 9570098.9/106

yield_bpm2i01X_mean vs Slug, Sign Corrected



Right In: 0.345+/-0.000

χ^2/NDF : 157307458986.8/27

Left: 0.461+/-0.000 χ^2/NDF : 207093695005.5/47

Right: 0.332+/-0.000 χ^2/NDF : 321355871108.8/58

Left Out: 0.463+/-0.000

χ^2/NDF : 102506270538.7/24

In: 0.413+/-0.000 χ^2/NDF : 284087053180.7/50

Right Out: 0.321+/-0.000

χ^2/NDF : 163148228291.5/30

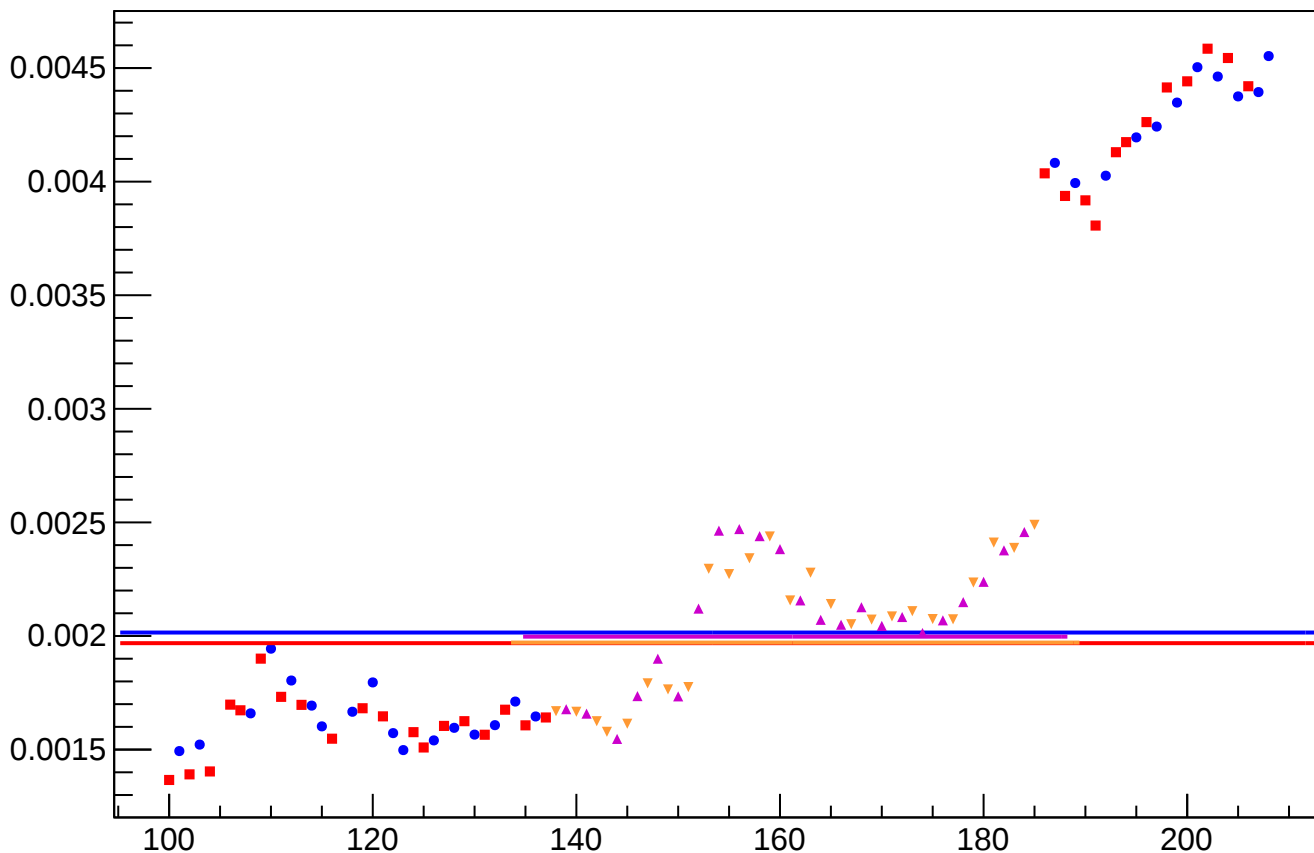
Out: 0.405+/-0.000 χ^2/NDF : 303638157197.9/55

Left In: 0.460+/-0.000

χ^2/NDF : 104559088628.4/22

All: 0.409+/-0.000 χ^2/NDF : 587973115042.8

yield_bpm2i01X_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 5165046.5/27

Left Out: 0.002+/-0.000 χ^2/NDF : 730203.8/24

Right Out: 0.002+/-0.000 χ^2/NDF : 5448723.4/30

Left In: 0.002+/-0.000 χ^2/NDF : 666404.2/22

Left: 0.002+/-0.000 χ^2/NDF : 1399578.1/47

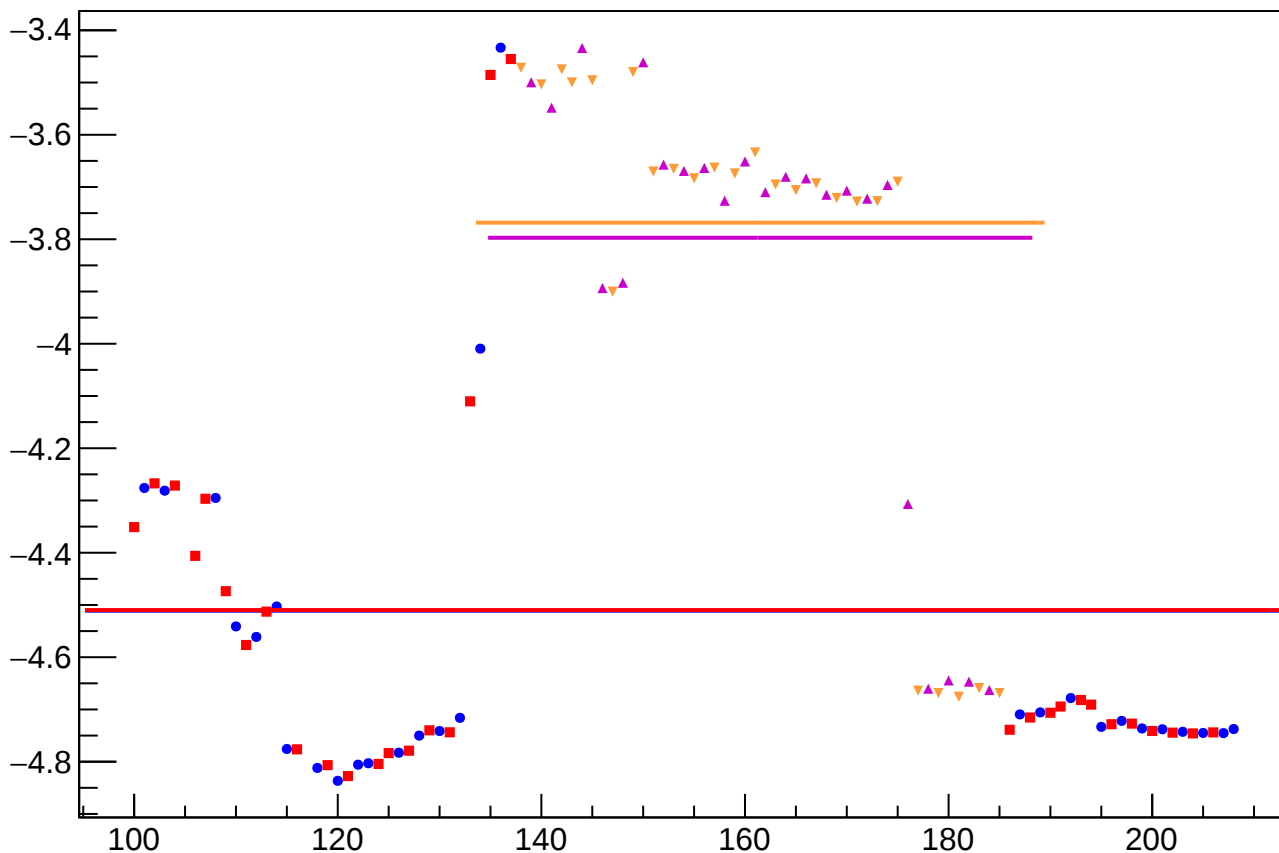
Right: 0.002+/-0.000 χ^2/NDF : 10620332.4/58

In: 0.002+/-0.000 χ^2/NDF : 5832569.2/50

Out: 0.002+/-0.000 χ^2/NDF : 6178953.5/55

All: 0.002+/-0.000 χ^2/NDF : 12020274.4/106

yield_bpm2i01Y_mean vs Slug, Sign Corrected



Right In: -4.511+/-0.000

χ^2/NDF : 436061110773.3/27

Left: -3.782+/-0.000

χ^2/NDF : 963205684454.6/47

Left Out: -3.768+/-0.000

χ^2/NDF : 516780173940.8/24

Right: -4.510+/-0.000

χ^2/NDF : 806174398695.3/58

Right Out: -4.510+/-0.000

χ^2/NDF : 370111469083.7/30

In: -4.104+/-0.000

χ^2/NDF : 1658721599063.3/50

Out: -4.086+/-0.000

χ^2/NDF : 1785928395633.3/55

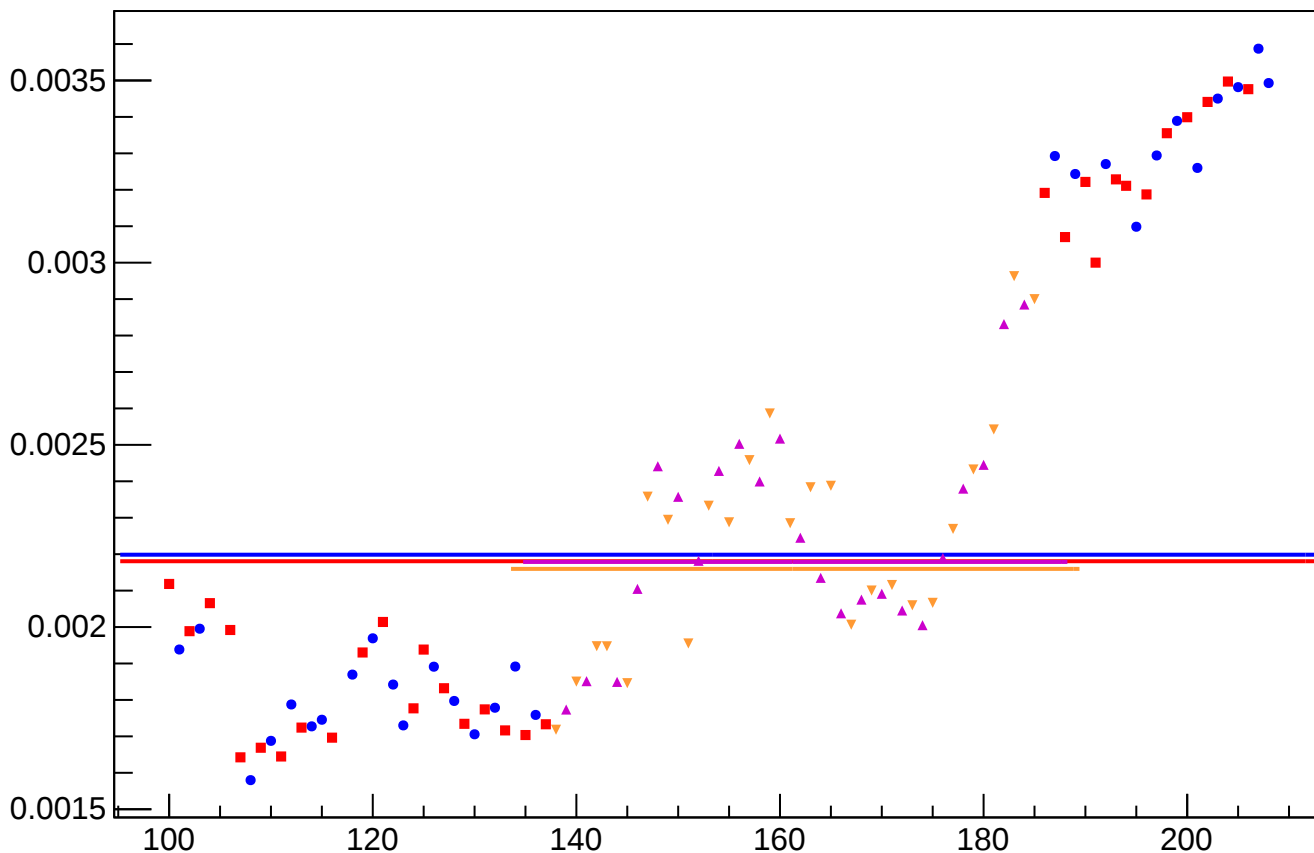
Left In: -3.797+/-0.000

χ^2/NDF : 444886272608.9/22

All: -4.095+/-0.000

χ^2/NDF : 3445683182822

yield_bpm2i01Y_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 2499025.7/27

Left Out: 0.002+/-0.000 χ^2/NDF :547831.5/24

Right Out: 0.002+/-0.000 χ^2/NDF : 2524687.9/30

Left In: 0.002+/-0.000 χ^2/NDF :463279.7/22

Left: 0.002+/-0.000 χ^2/NDF : 1012449.5/47

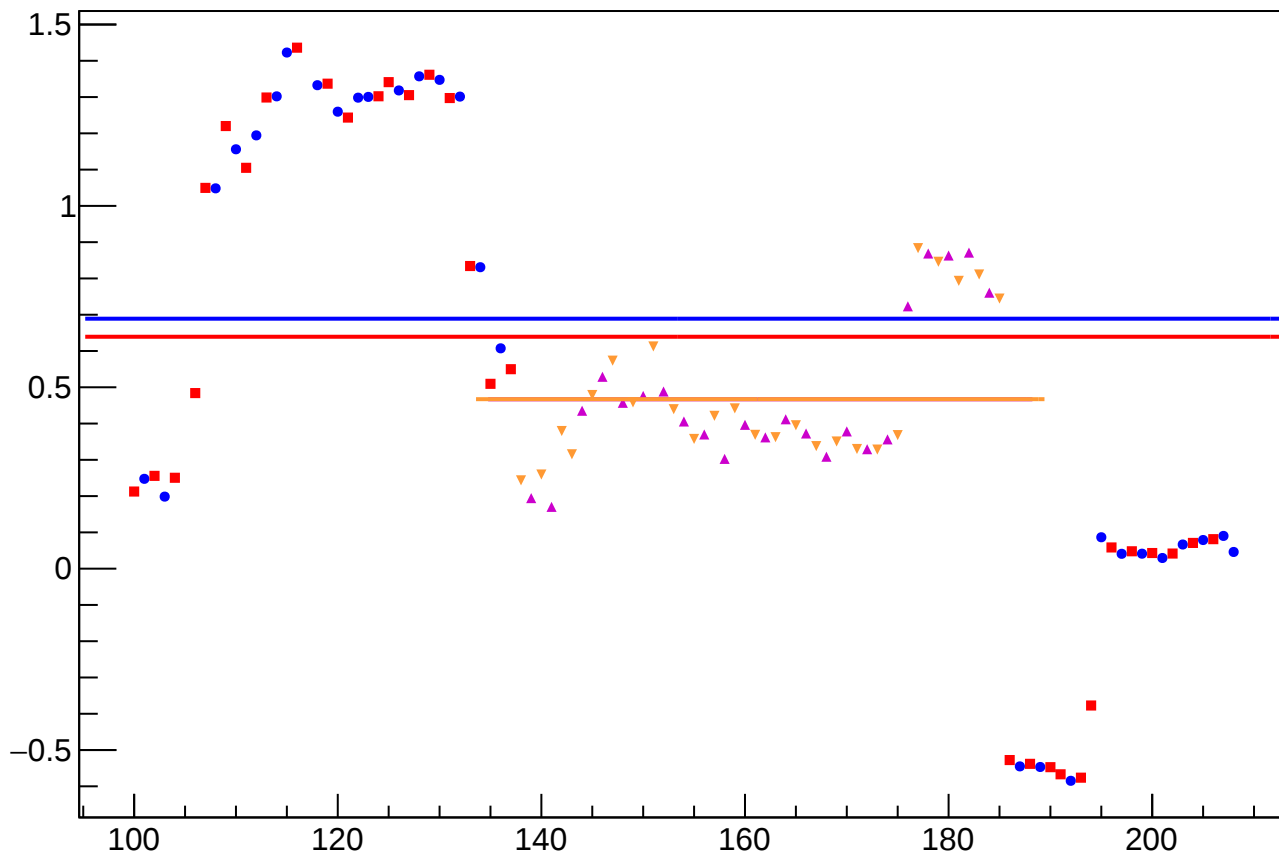
Right: 0.002+/-0.000 χ^2/NDF : 5024600.0/58

In: 0.002+/-0.000 χ^2/NDF :2963504.4/50

Out: 0.002+/-0.000 χ^2/NDF :3073961.0/55

All: 0.002+/-0.000 χ^2/NDF : 6039694.1/106

yield_bpm2i02X_mean vs Slug, Sign Corrected



Right In: 0.689+/-0.000

χ^2/NDF : 77190225365.5/27

Left: 0.467+/-0.000 χ^2/NDF : 15396100488.4/47

Right: 0.663+/-0.000 χ^2/NDF : 173275170169.8/58

Left Out: 0.467+/-0.000

χ^2/NDF : 7359344143.3/24

In: 0.575+/-0.000 χ^2/NDF : 89883142797.2/50

Right Out: 0.639+/-0.000

χ^2/NDF : 95846651044.8/30

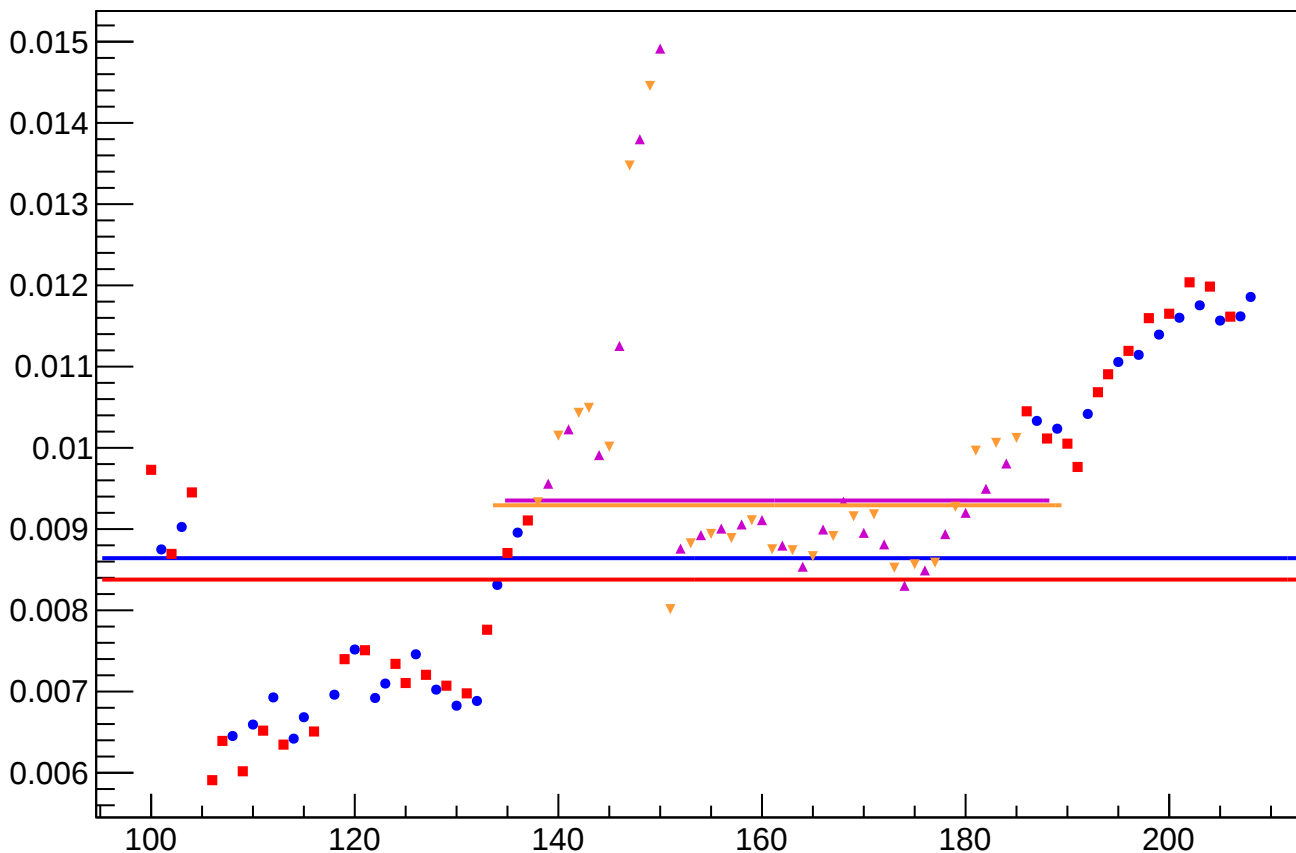
Out: 0.552+/-0.000 χ^2/NDF : 106252262111.9/55

Left In: 0.467+/-0.000

χ^2/NDF : 8036741308.0/22

All: 0.563+/-0.000 χ^2/NDF : 196237314244.3

yield_bpm2i02X_rms vs Slug, Sign Corrected



Right In: 0.009+/-0.000 χ^2/NDF : 1433207.8/27

Left Out: 0.009+/-0.000 χ^2/NDF :528279.5/24

Right Out: 0.008+/-0.000 χ^2/NDF : 1686297.9/30

Left In: 0.009+/-0.000 χ^2/NDF :557555.2/22

Left: 0.009+/-0.000 χ^2/NDF : 1086539.3/47

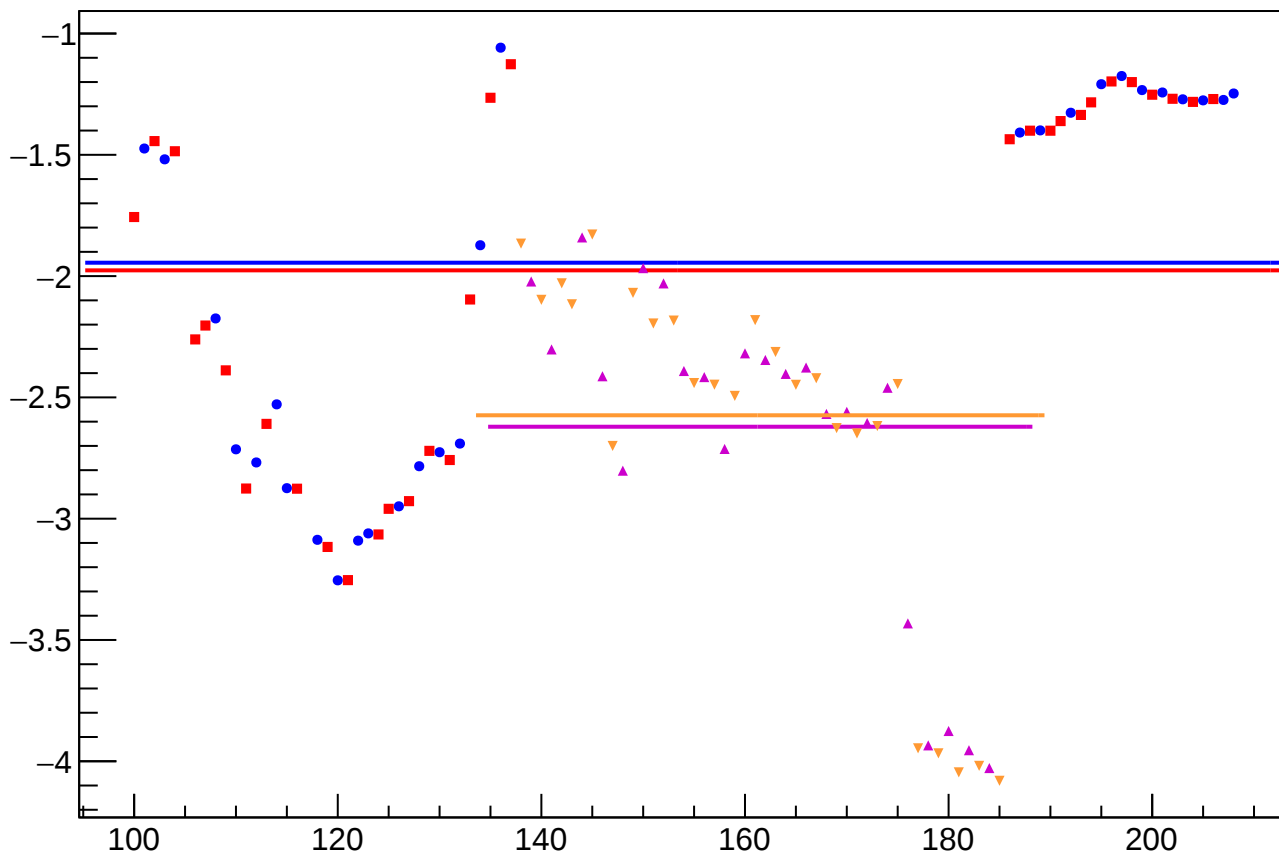
Right: 0.009+/-0.000 χ^2/NDF : 3132876.0/58

In: 0.009+/-0.000 χ^2/NDF :2085819.9/50

Out: 0.009+/-0.000 χ^2/NDF :2386628.2/55

All: 0.009+/-0.000 χ^2/NDF : 4483140.7/106

yield_bpm2i02Y_mean vs Slug, Sign Corrected



Right In: -1.945+/-0.000

χ²/NDF: 126717272423.7/27

Left: -2.597+/-0.000

χ²/NDF: 180296288698.4/47

Left Out: -2.574+/-0.000

χ²/NDF: 99176112704.9/24

Right: -1.961+/-0.000

χ²/NDF: 248452457066.4/58

Right Out: -1.976+/-0.000

χ²/NDF: 121622901333.7/30

In: -2.287+/-0.000

χ²/NDF: 258169694341.1/50

Out: -2.278+/-0.000

χ²/NDF: 263055336124.8/55

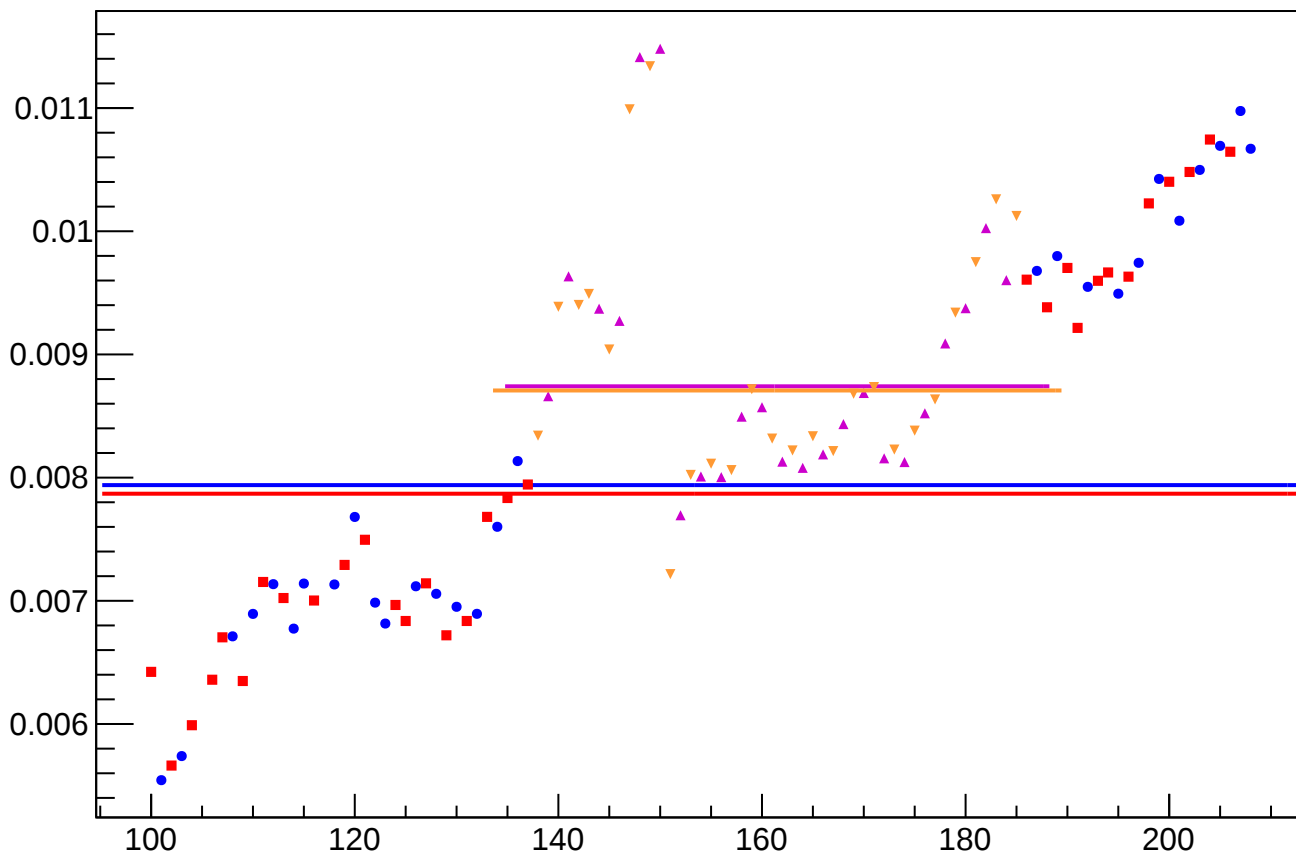
Left In: -2.621+/-0.000

χ²/NDF: 80862402796.4/22

All: -2.283+/-0.000

χ²/NDF: 521242533997.5

yield_bpm2i02Y_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 1306909.5/27

Left Out: 0.009+/-0.000 χ^2/NDF :369376.5/24

Right Out: 0.008+/-0.000 χ^2/NDF : 1233184.9/30

Left In: 0.009+/-0.000 χ^2/NDF :353750.0/22

Left: 0.009+/-0.000 χ^2/NDF : 723390.7/47

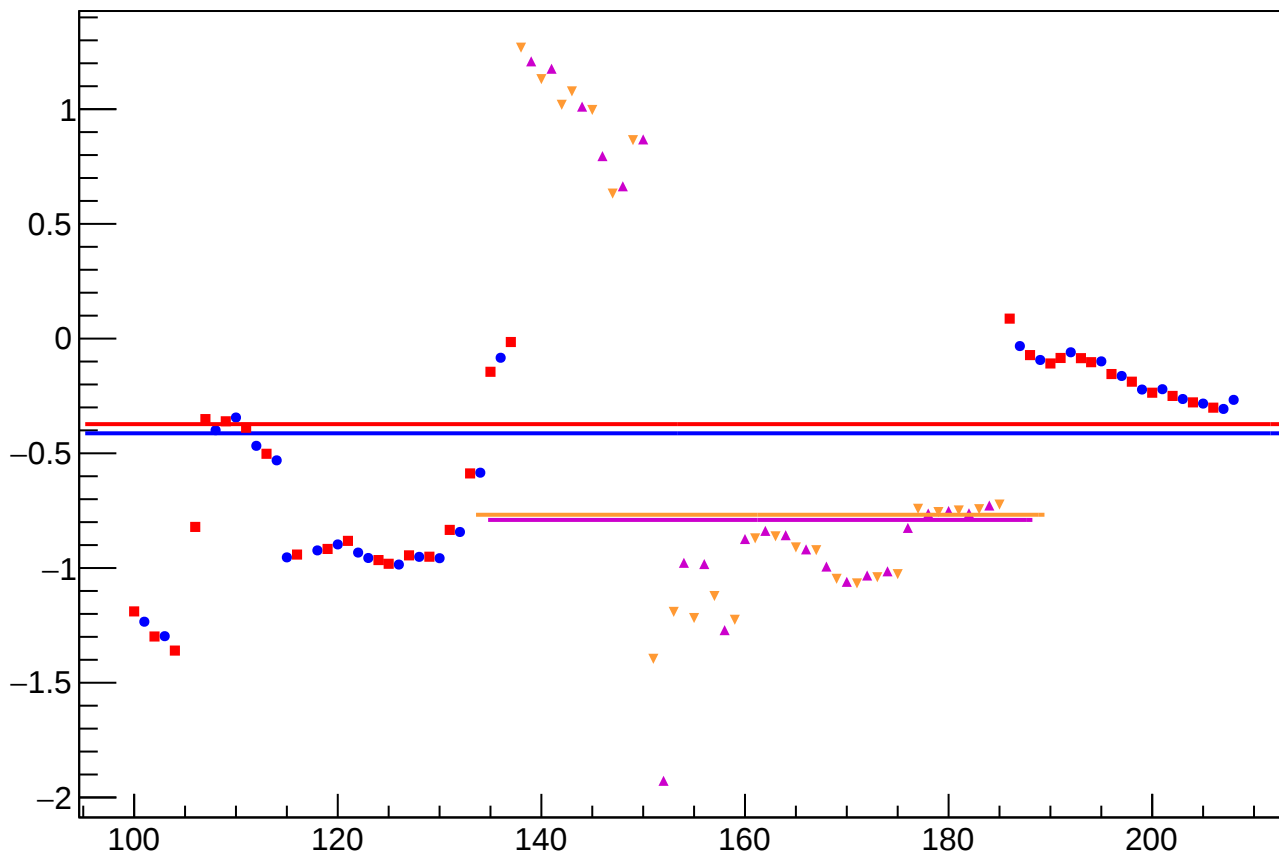
Right: 0.008+/-0.000 χ^2/NDF : 2541196.4/58

In: 0.008+/-0.000 χ^2/NDF :1802998.2/50

Out: 0.008+/-0.000 χ^2/NDF :1768839.3/55

All: 0.008+/-0.000 χ^2/NDF : 3573081.6/106

yield_bpm0i01X_mean vs Slug, Sign Corrected



Right In: -0.413 $\pm$ 0.000 χ^2/NDF : 22642238690.7/27

Left Out: -0.768 $\pm$ 0.000 χ^2/NDF : 120774855982.9/24

Right Out: -0.373 $\pm$ 0.000 χ^2/NDF : 25076139288.6/30

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

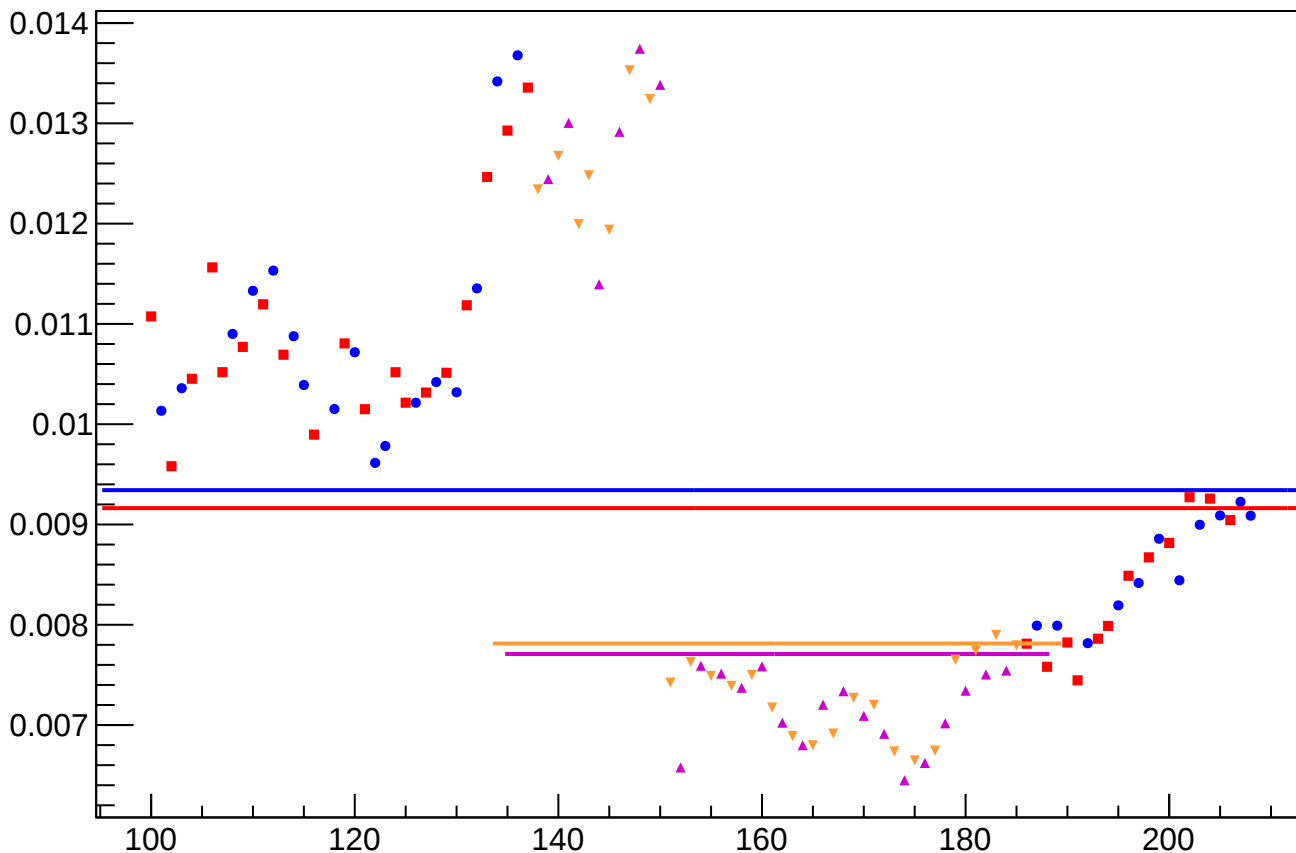
Right: -0.392 $\pm$ 0.000 χ^2/NDF : 47850926873.0/58

In: -0.651 $\pm$ 0.000 χ^2/NDF : 160450939233.3/50

Out: -0.618 $\pm$ 0.000 χ^2/NDF : 162562099444.9/55

All: -0.634 $\pm$ 0.000 χ^2/NDF : 323254121775.2

yield_bpm0i01X_rms vs Slug, Sign Corrected



Right In: 0.009+/-0.000 χ^2/NDF : 541988.8/27

Left Out: 0.008+/-0.000 χ^2/NDF :1705997.6/24

Right Out: 0.009+/-0.000 χ^2/NDF : 628464.8/30

Left In: 0.008+/-0.000 χ^2/NDF :1746653.6/22

Left: 0.008+/-0.000 χ^2/NDF : 3455681.9/47

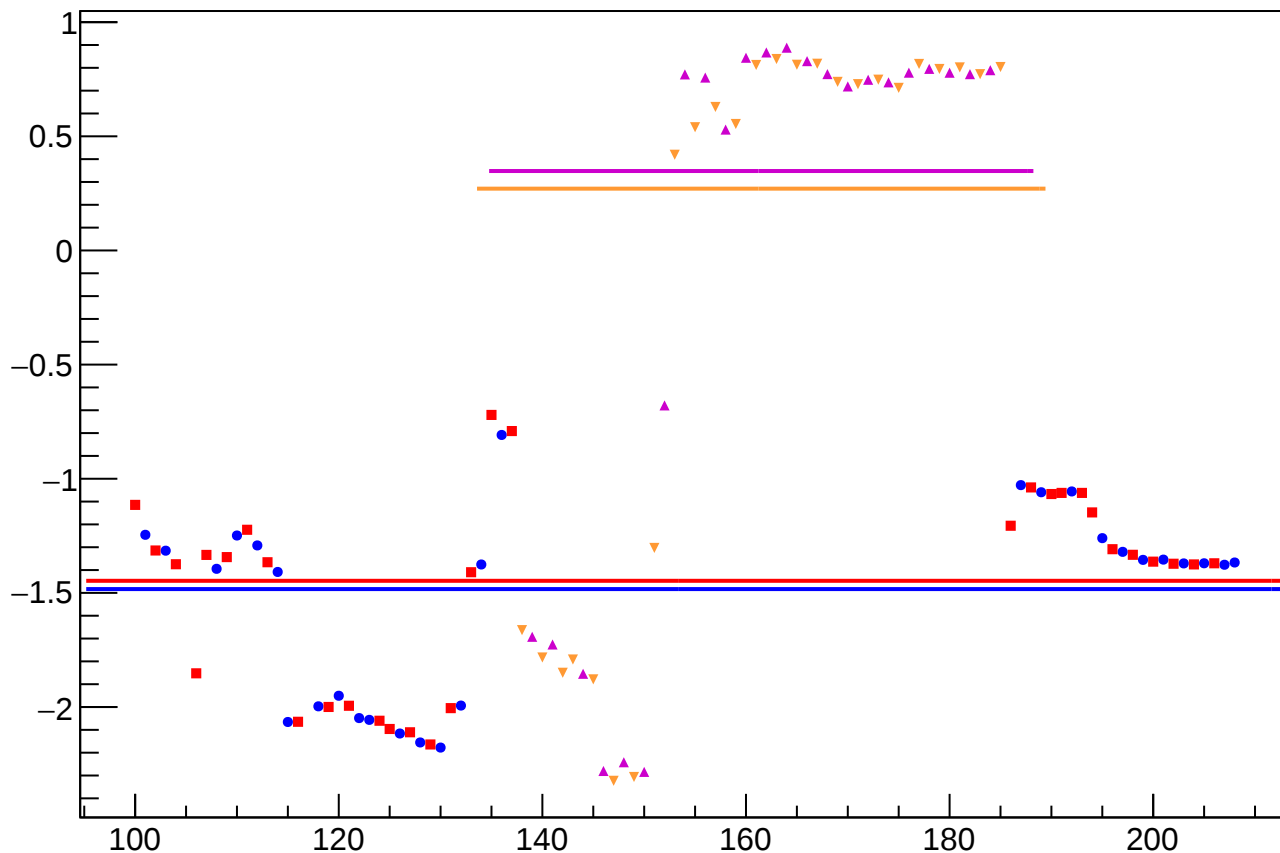
Right: 0.009+/-0.000 χ^2/NDF : 1175808.1/58

In: 0.008+/-0.000 χ^2/NDF :2826303.9/50

Out: 0.008+/-0.000 χ^2/NDF :2724734.1/55

All: 0.008+/-0.000 χ^2/NDF : 5551114.5/106

yield_bpm0i01Y_mean vs Slug, Sign Corrected



Right In: -1.483+/-0.000

χ^2/NDF : 174591746133.1/27

Left: 0.308+/-0.000 χ^2/NDF : 4864843200778.2/47

Right: -1.464+/-0.000 χ^2/NDF : 339532644277.4/58

Left Out: 0.271+/-0.000

χ^2/NDF : 2583233987355.9/24

In: -0.231+/-0.000 χ^2/NDF : 5080916170959.3/50

Right Out: -1.447+/-0.000

χ^2/NDF : 164143041521.6/30

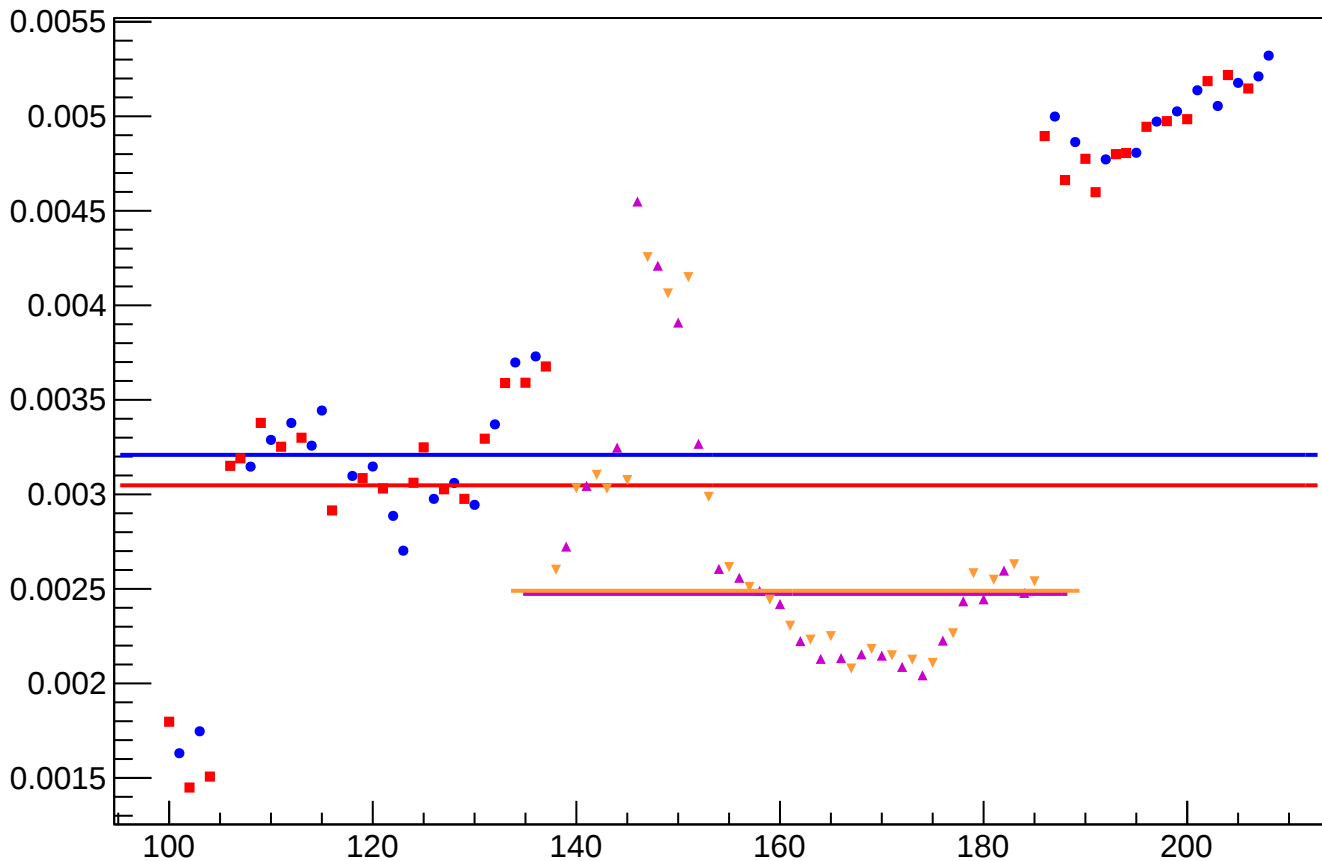
Out: -0.295+/-0.000 χ^2/NDF : 5295706580172.9/55

Left In: 0.348+/-0.000

χ^2/NDF : 2274004426513.8/22

All: -0.264+/-0.000 χ^2/NDF : 1038432789076

yield_bpm0i01Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 3666607.7/27

Left Out: 0.002+/-0.000 χ^2/NDF :1070282.7/24

Right Out: 0.003+/-0.000 χ^2/NDF : 4531840.1/30

Left In: 0.002+/-0.000 χ^2/NDF :1135279.8/22

Left: 0.002+/-0.000 χ^2/NDF : 2206266.8/47

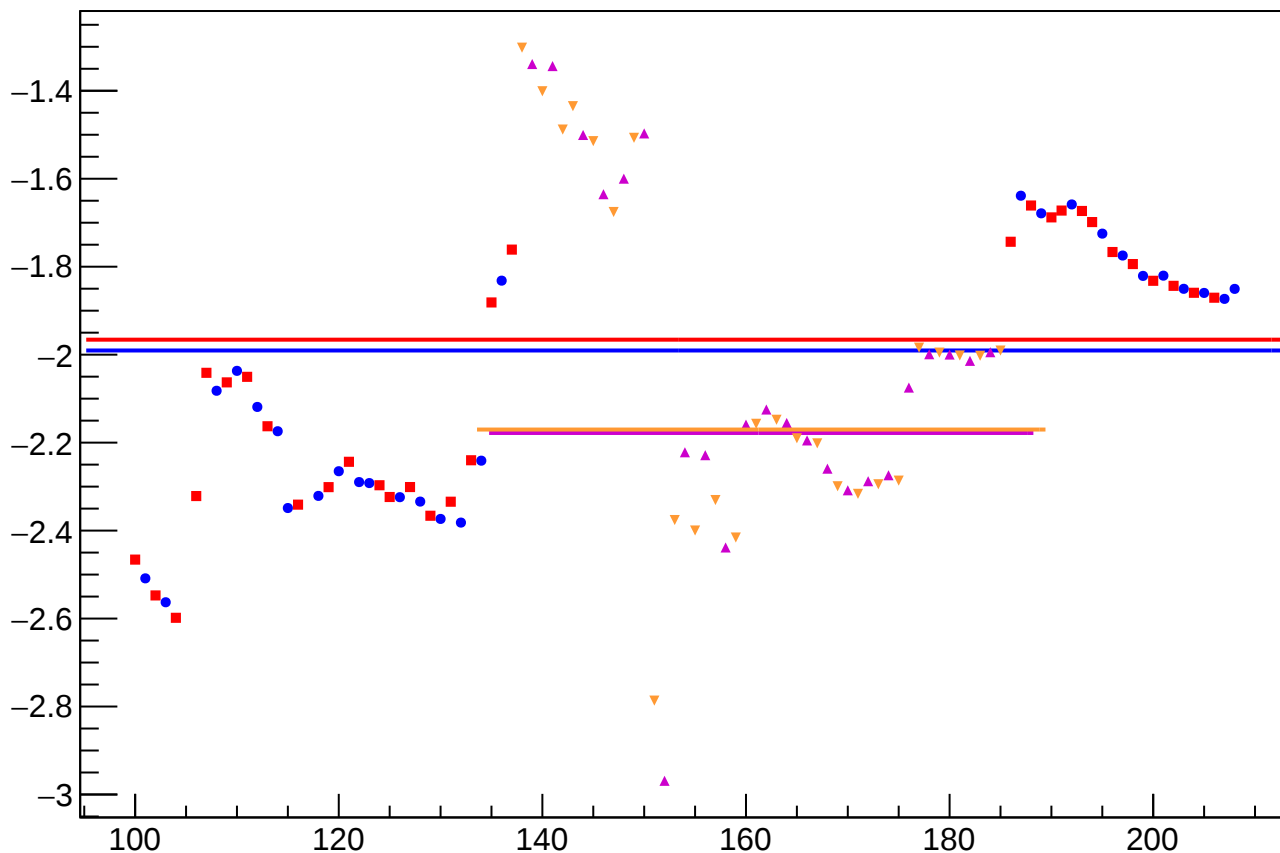
Right: 0.003+/-0.000 χ^2/NDF : 8229980.7/58

In: 0.003+/-0.000 χ^2/NDF :5651253.0/50

Out: 0.003+/-0.000 χ^2/NDF :6139447.2/55

All: 0.003+/-0.000 χ^2/NDF : 11794615.6/106

yield_bpm0i01aX_mean vs Slug, Sign Corrected



Right In: -1.990+/-0.000

χ^2/NDF : 30839406064.9/27

Left: -2.174+/-0.000

χ^2/NDF : 133392029481.5/47

Right: -1.978+/-0.000

χ^2/NDF : 65716779769.0/58

Left Out: -2.170+/-0.000

χ^2/NDF : 59967315241.9/24

In: -2.115+/-0.000

χ^2/NDF : 112938689393.6/50

Right Out: -1.966+/-0.000

χ^2/NDF : 34760034398.0/30

Out: -2.099+/-0.000

χ^2/NDF : 105711057201.3/55

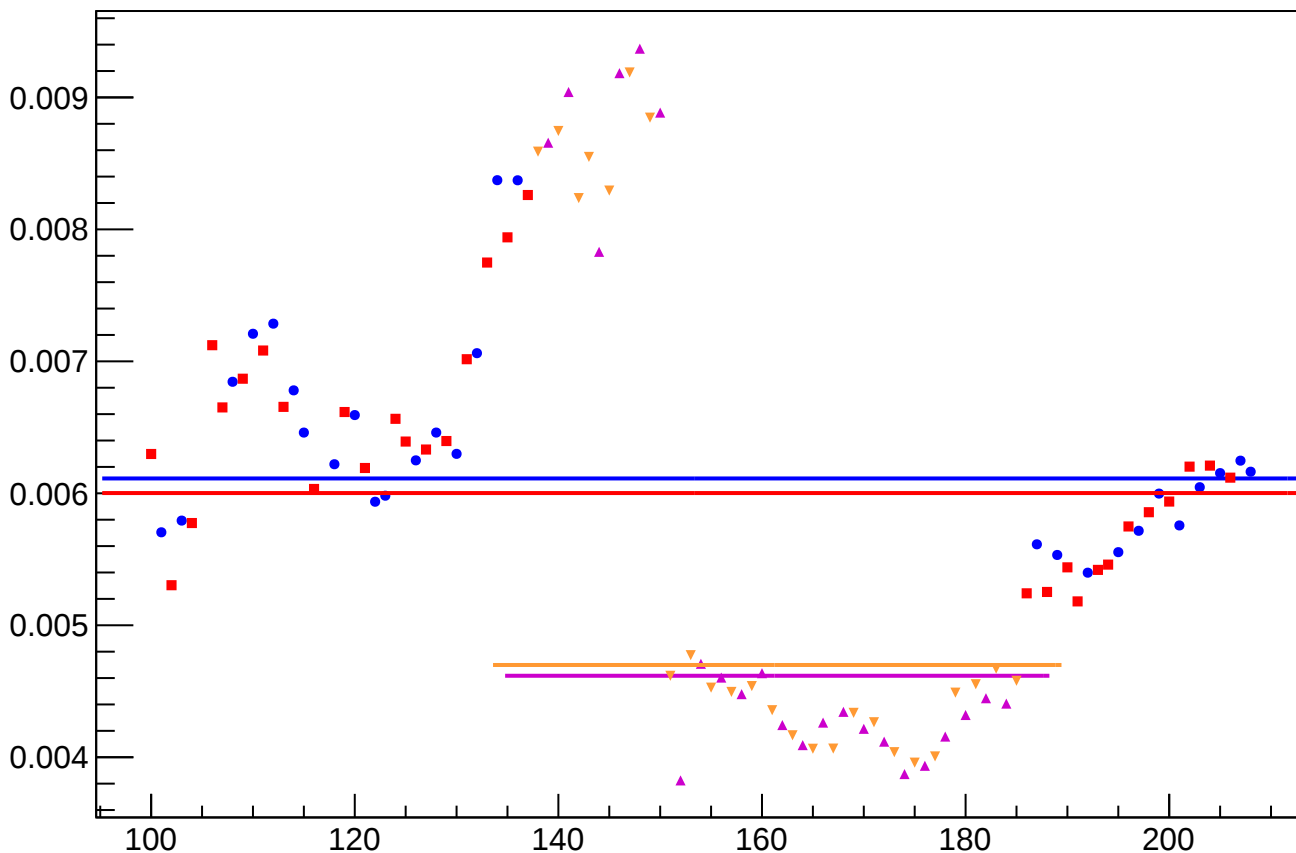
Left In: -2.178+/-0.000

χ^2/NDF : 73402051113.3/22

All: -2.107+/-0.000

χ^2/NDF : 218788924279.7

yield_bpm0i01aX_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 302819.6/27

Left Out: 0.005+/-0.000 χ^2/NDF :2319588.7/24

Right Out: 0.006+/-0.000 χ^2/NDF : 353470.1/30

Left In: 0.005+/-0.000 χ^2/NDF :2367440.9/22

Left: 0.005+/-0.000 χ^2/NDF : 4691984.4/47

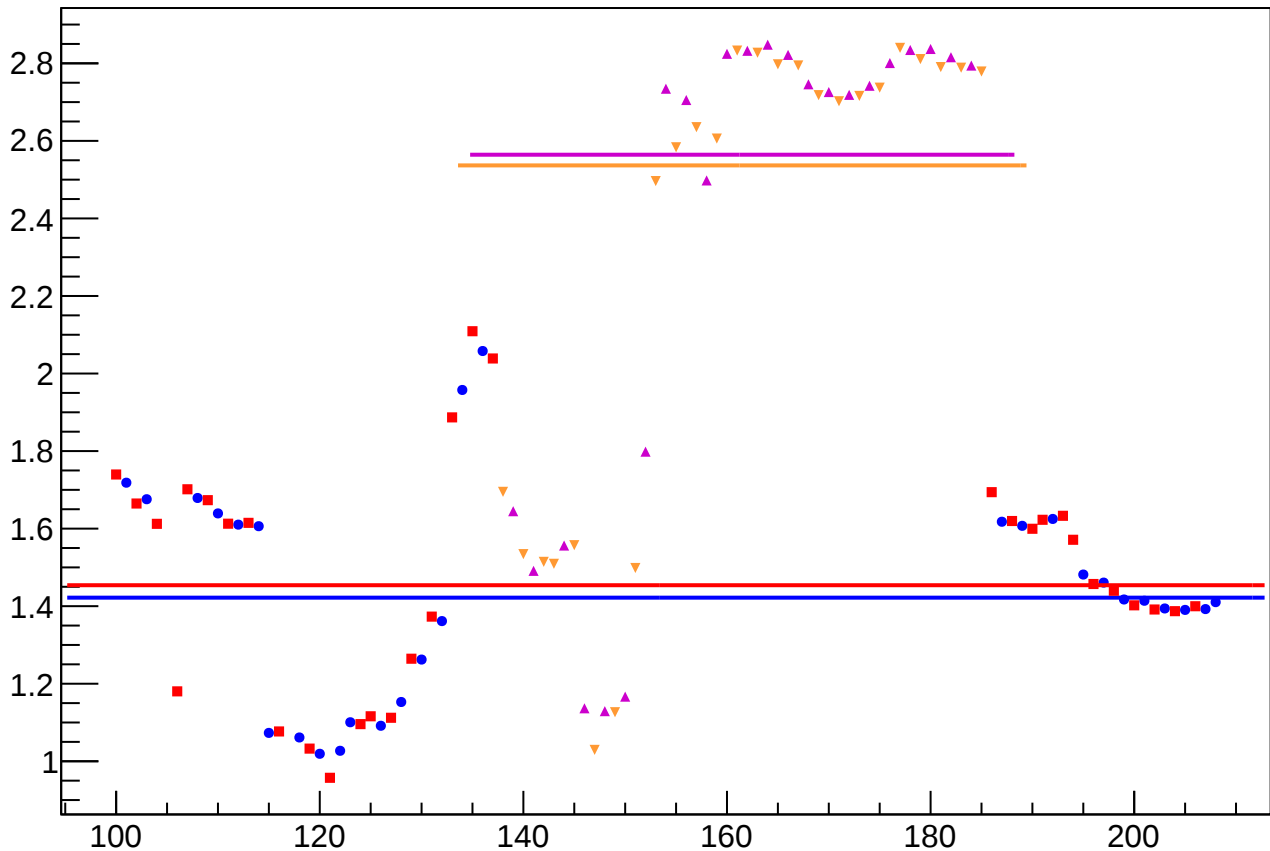
Right: 0.006+/-0.000 χ^2/NDF : 661035.9/58

In: 0.005+/-0.000 χ^2/NDF :3775681.2/50

Out: 0.005+/-0.000 χ^2/NDF :3566158.2/55

All: 0.005+/-0.000 χ^2/NDF : 7342911.5/106

yield_bpm0i01aY_mean vs Slug, Sign Corrected



Right In: 1.422+/-0.000 χ^2/NDF : 174159204898.9/27

Left Out: 2.537+/-0.000 χ^2/NDF : 269554948115.3/24

Right Out: 1.454+/-0.000 χ^2/NDF : 176981848754.9/30

Left In: 2.564+/-0.000 χ^2/NDF : 260287937727.8/22

Left: 2.550+/-0.000 χ^2/NDF : 530319507083.6/47

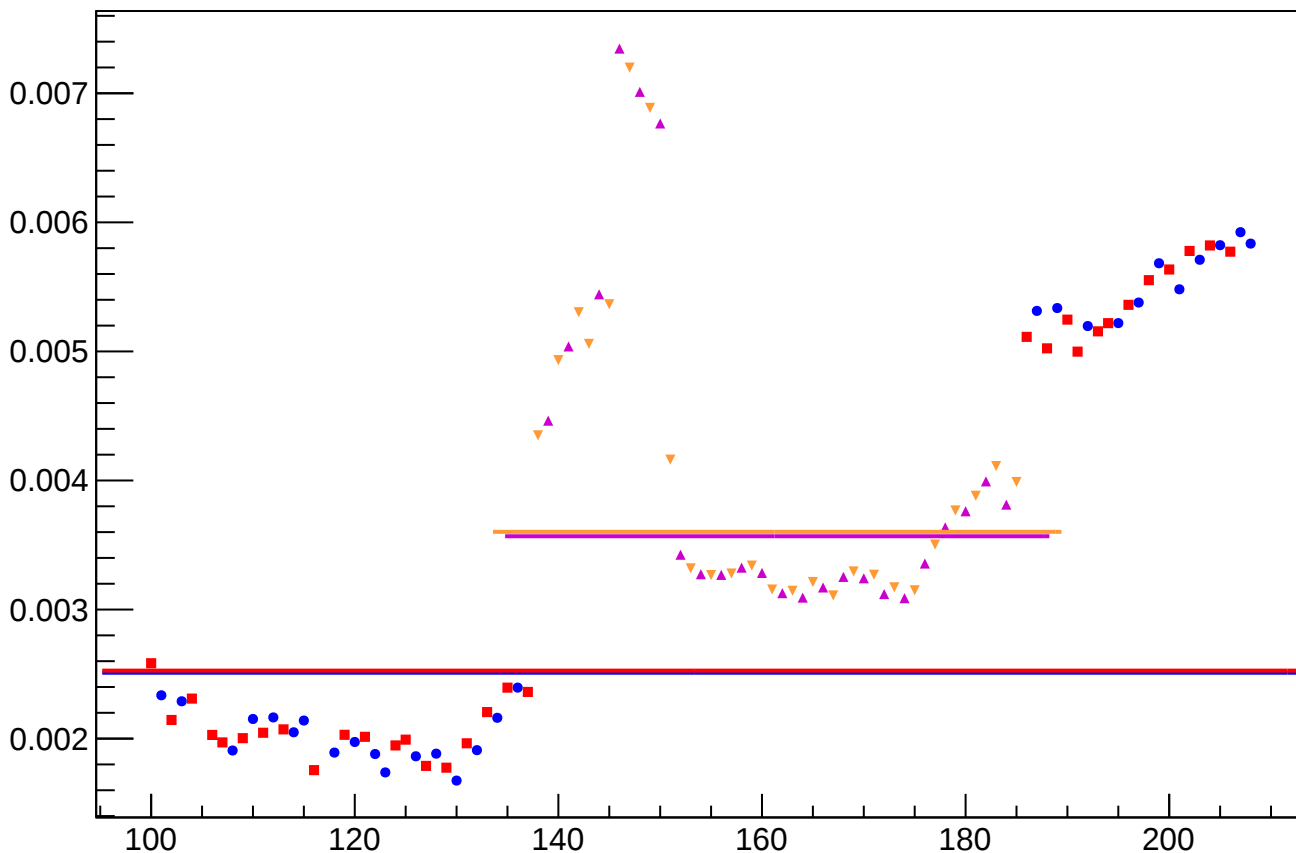
Right: 1.438+/-0.000 χ^2/NDF : 352070395192.6/58

In: 1.890+/-0.000 χ^2/NDF : 1379104377709.6/50

Out: 1.899+/-0.000 χ^2/NDF : 1335878615510.6/55

All: 1.895+/-0.000 χ^2/NDF : 2715114088374.

yield_bpm0i01aY_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 5498292.5/27

Left Out: 0.004+/-0.000 χ^2/NDF :1410717.8/24

Right Out: 0.003+/-0.000 χ^2/NDF : 5425055.8/30

Left In: 0.004+/-0.000 χ^2/NDF :1563028.0/22

Left: 0.004+/-0.000 χ^2/NDF : 2975225.3/47

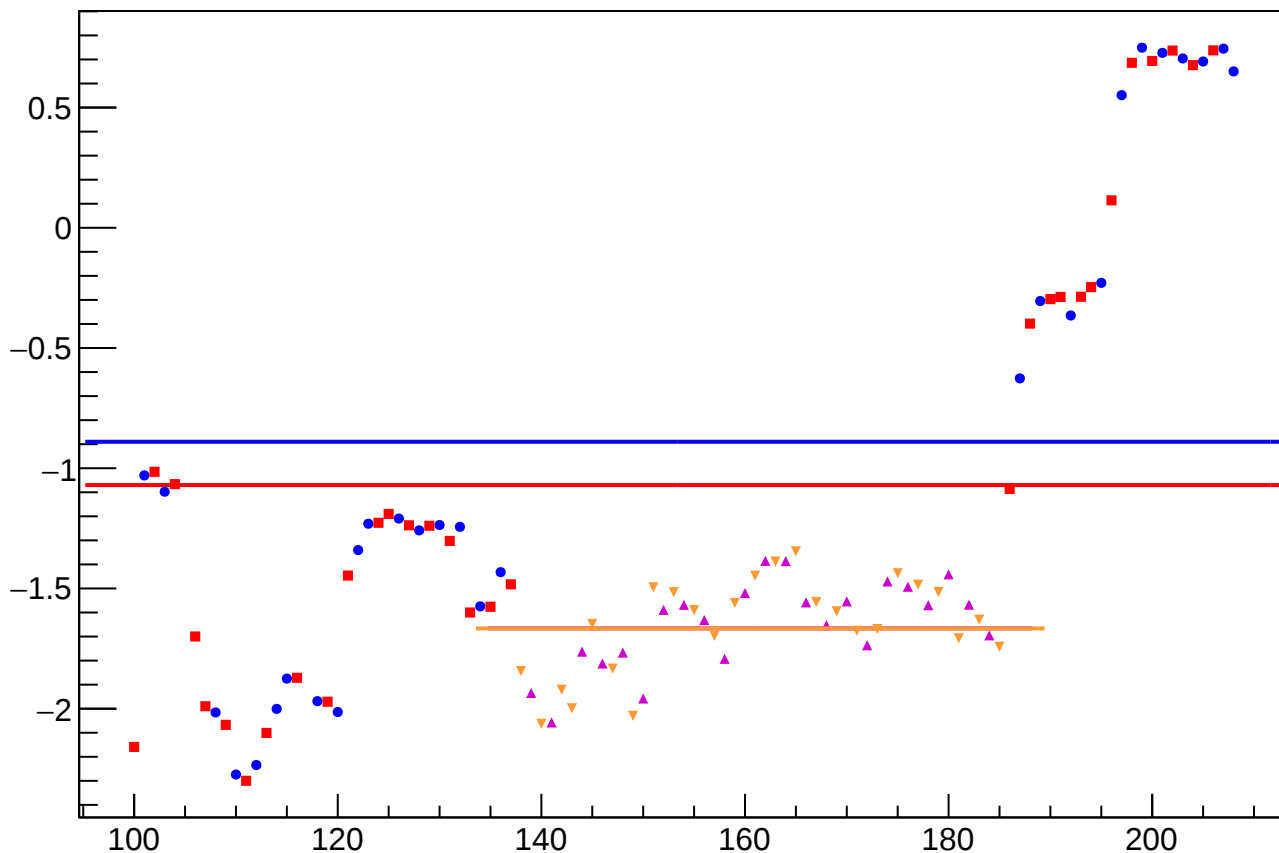
Right: 0.003+/-0.000 χ^2/NDF : 10923828.8/58

In: 0.003+/-0.000 χ^2/NDF :8679929.5/50

Out: 0.003+/-0.000 χ^2/NDF :8590325.2/55

All: 0.003+/-0.000 χ^2/NDF : 17272209.8/106

yield_bpm0l01X_mean vs Slug, Sign Corrected



Left: -1.666 $\pm$ 0.000 χ^2 /NDF: 32617732948.1/47

Right: -0.986 $\pm$ 0.000 χ^2 /NDF: 398468994063.2/58

In: -1.407 $\pm$ 0.000 χ^2 /NDF: 290143406931.9/50

Out: -1.458 $\pm$ 0.000 χ^2 /NDF: 274499806397.4/55

All: -1.434 $\pm$ 0.000 χ^2 /NDF: 565500291297.8

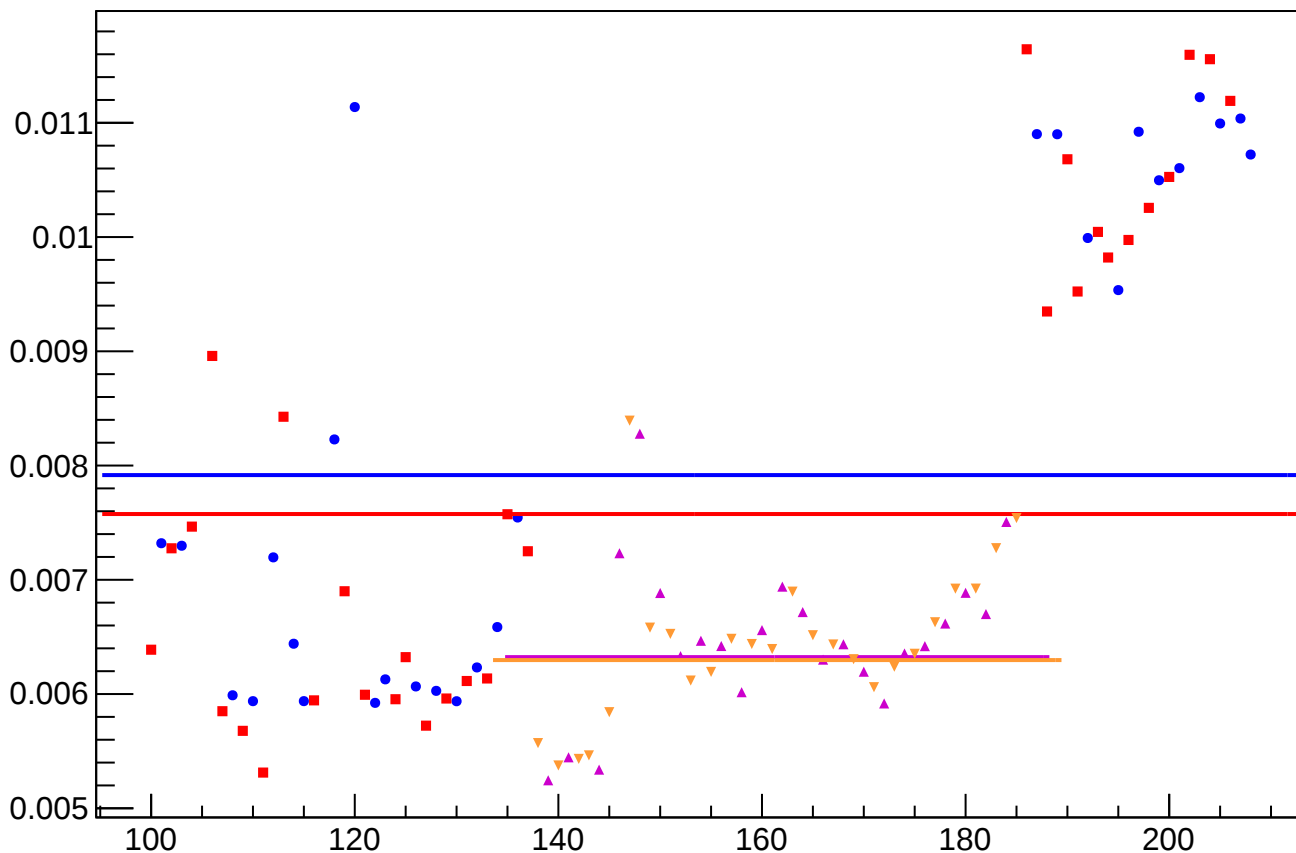
Right In: -0.890 $\pm$ 0.000 χ^2 /NDF: 193328540363.0/27

Left Out: -1.666 $\pm$ 0.000 χ^2 /NDF: 18325162131.2/24

Right Out: -1.070 $\pm$ 0.000 χ^2 /NDF: 201579527002.6/30

Left In: -1.666 $\pm$ 0.000 χ^2 /NDF: 14292570816.9/22

yield_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 1676132.2/27

Left Out: 0.006+/-0.000 χ^2/NDF : 310757.0/24

Right Out: 0.008+/-0.000 χ^2/NDF : 1913205.4/30

Left In: 0.006+/-0.000 χ^2/NDF : 330859.7/22

Left: 0.006+/-0.000 χ^2/NDF : 641901.9/47

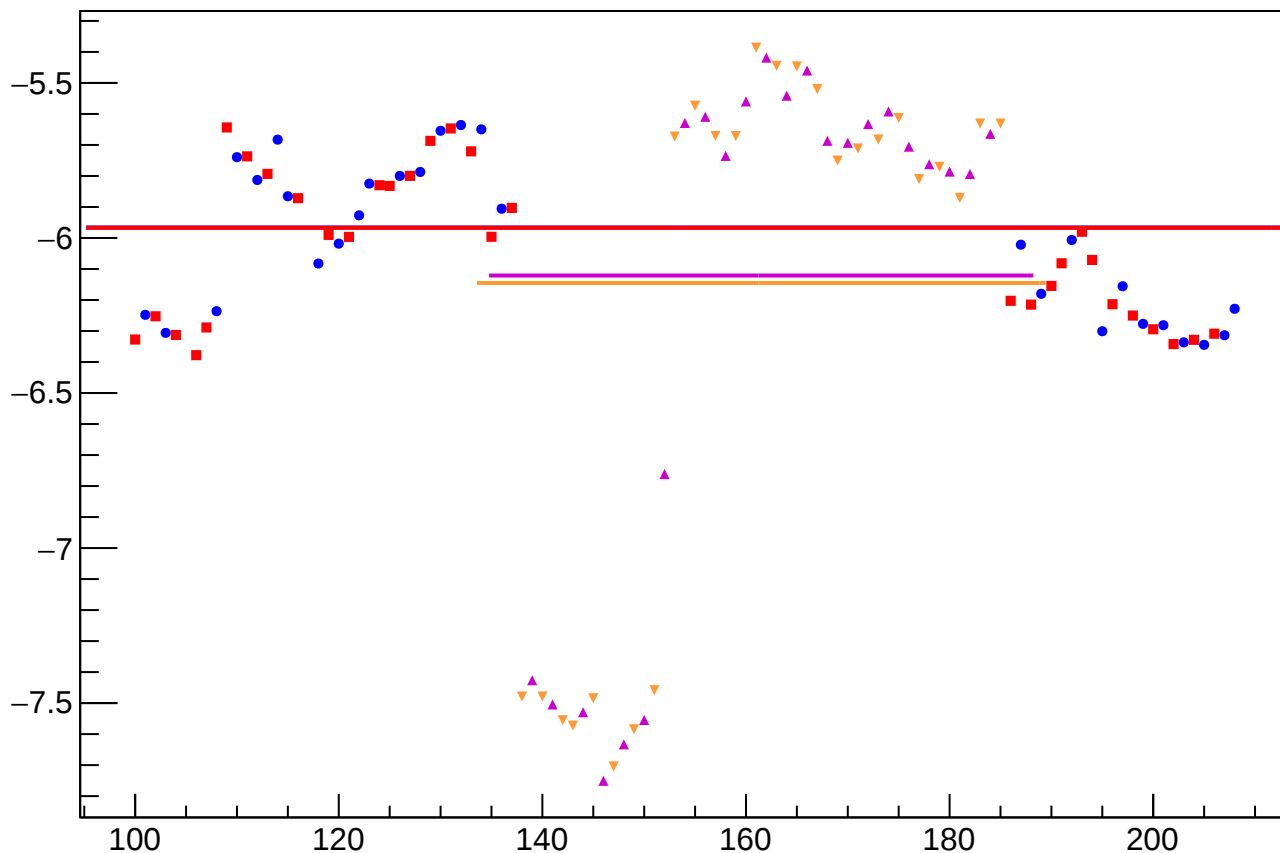
Right: 0.008+/-0.000 χ^2/NDF : 3614868.2/58

In: 0.007+/-0.000 χ^2/NDF : 2702353.1/50

Out: 0.007+/-0.000 χ^2/NDF : 2725956.0/55

All: 0.007+/-0.000 χ^2/NDF : 5436502.2/106

yield_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: -5.966+/-0.000 χ^2/NDF : 15254370871.3/27

Left Out: -6.145+/-0.000 χ^2/NDF : 185364150237.7/24

Right Out: -5.967+/-0.000 χ^2/NDF : 16350539656.5/30

Left In: -6.121+/-0.000 χ^2/NDF : 158315913062.3/22

Left: -6.133+/-0.000 χ^2/NDF : 343753122832.9/47

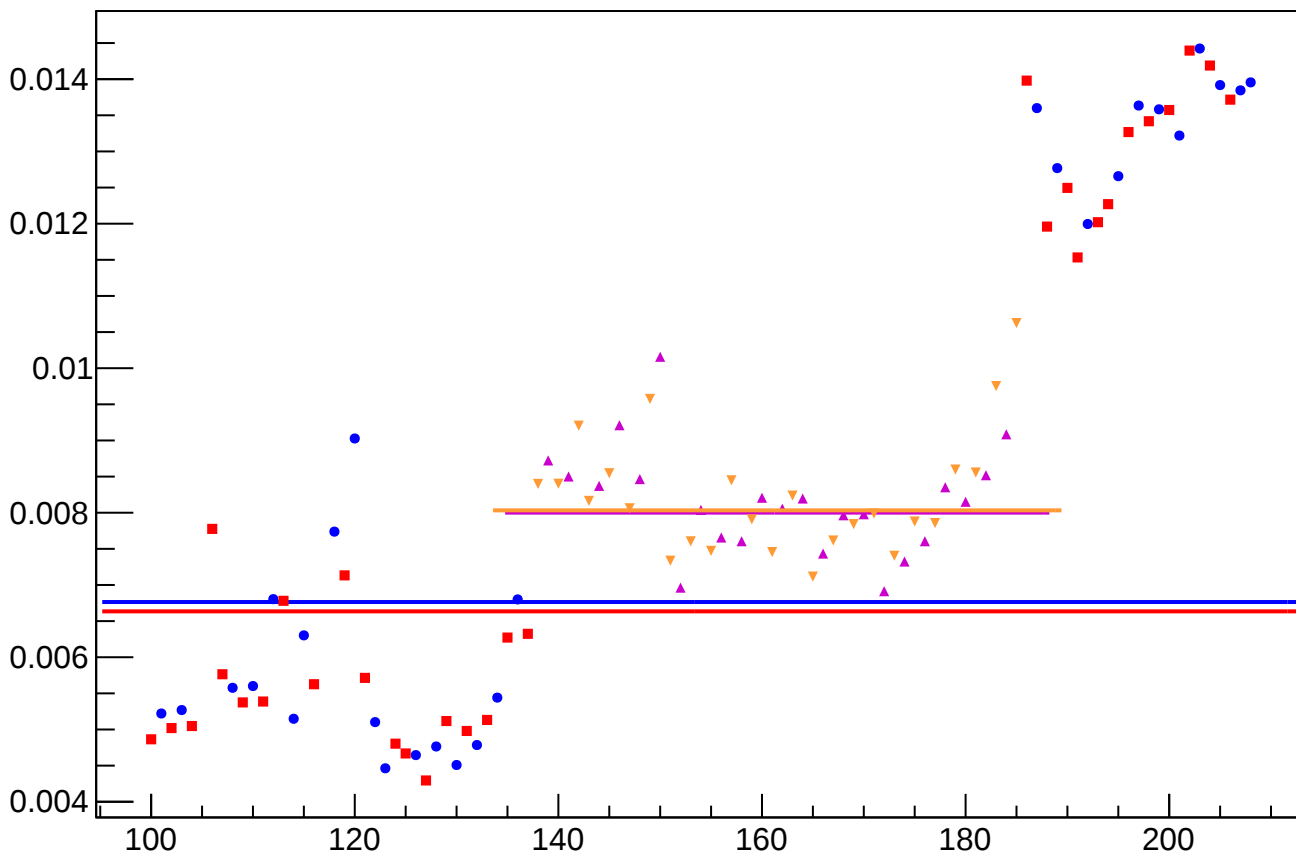
Right: -5.967+/-0.000 χ^2/NDF : 31604999939.2/58

In: -6.044+/-0.000 χ^2/NDF : 176511107135.7/50

Out: -6.054+/-0.000 χ^2/NDF : 205878468968.2/55

All: -6.049+/-0.000 χ^2/NDF : 382415807824.4

yield_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 4777185.7/27

Left Out: 0.008+/-0.000 χ^2/NDF :205762.2/24

Right Out: 0.007+/-0.000 χ^2/NDF : 4730167.4/30

Left In: 0.008+/-0.000 χ^2/NDF :220756.1/22

Left: 0.008+/-0.000 χ^2/NDF : 426763.2/47

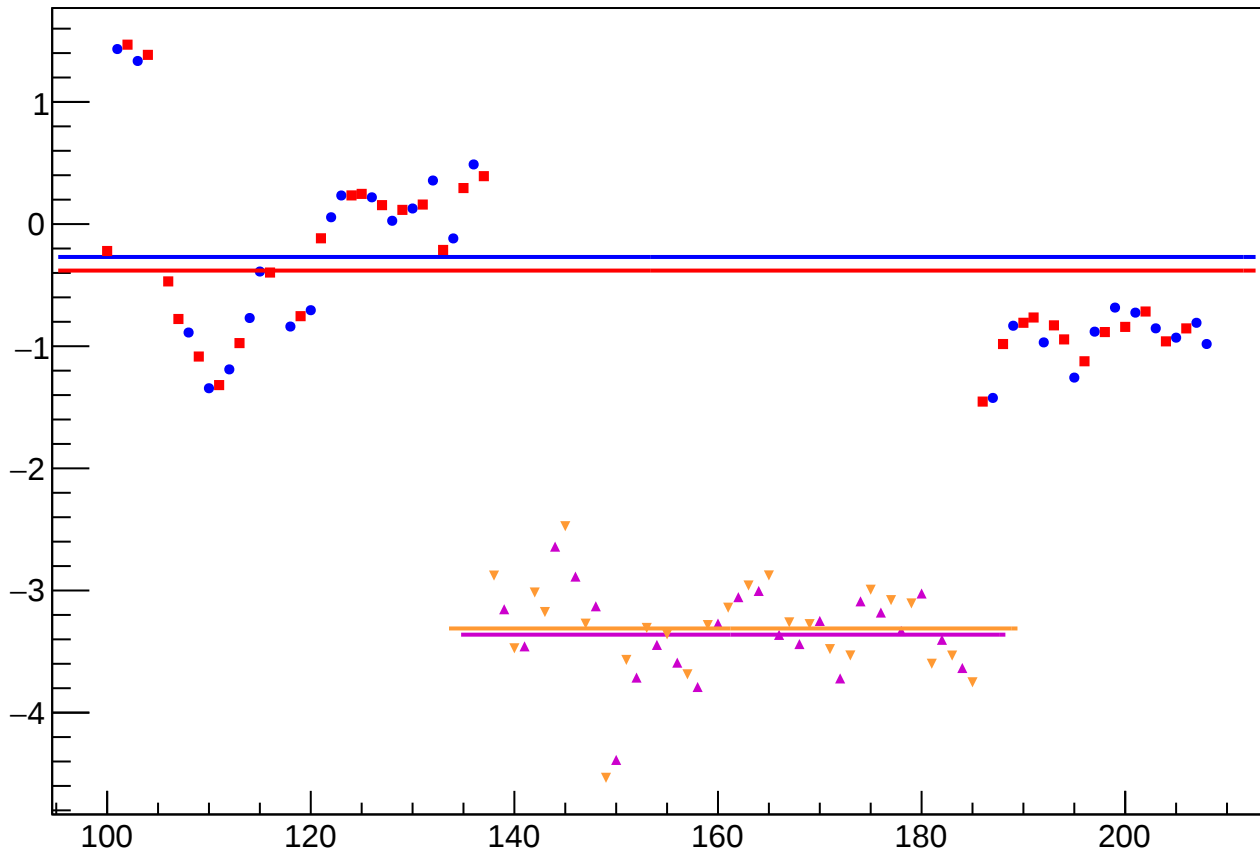
Right: 0.007+/-0.000 χ^2/NDF : 9511621.1/58

In: 0.007+/-0.000 χ^2/NDF :5373522.6/50

Out: 0.007+/-0.000 χ^2/NDF :5448856.4/55

All: 0.007+/-0.000 χ^2/NDF : 10824663.2/106

yield_bpm0l02X_mean vs Slug, Sign Corrected



Right In: -0.269+/-0.000 χ^2/NDF : 31670588295.0/27

Left Out: -3.311+/-0.000 χ^2/NDF : 9354397456.2/24

Right Out: -0.381+/-0.000 χ^2/NDF : 32434745862.3/30

Left In: -3.362+/-0.000 χ^2/NDF : 8171803777.4/22

Left: -3.336+/-0.000 χ^2/NDF : 17613895190.9/47

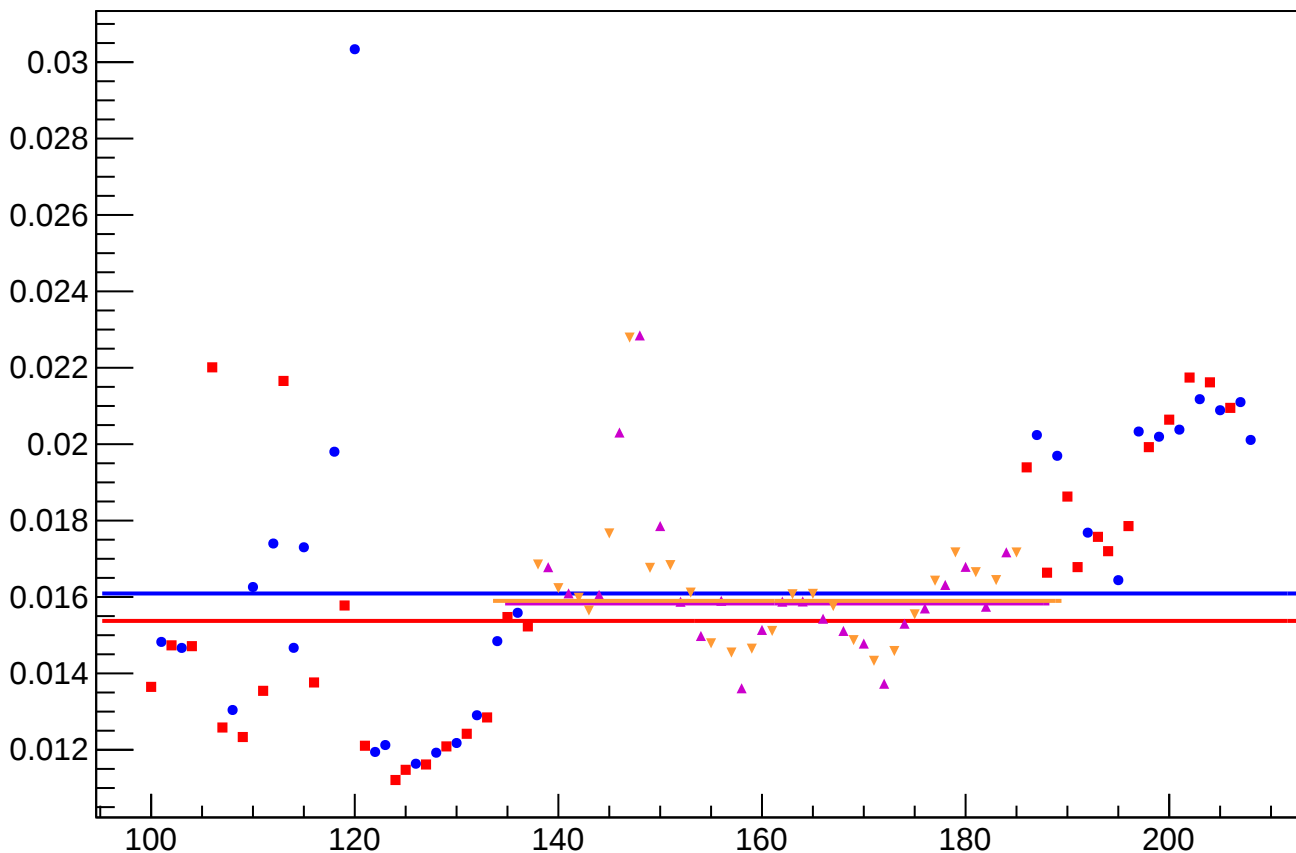
Right: -0.329+/-0.000 χ^2/NDF : 64440917266.6/58

In: -2.026+/-0.000 χ^2/NDF : 313520224159.4/50

Out: -1.978+/-0.000 χ^2/NDF : 314872288663.6/55

All: -2.001+/-0.000 χ^2/NDF : 628531676933.8

yield_bpm0l02X_rms vs Slug, Sign Corrected



Right In: 0.016+/-0.000 χ^2/NDF : 1265342.1/27

Left Out: 0.016+/-0.000 χ^2/NDF :251912.7/24

Right Out: 0.015+/-0.000 χ^2/NDF : 1262556.7/30

Left In: 0.016+/-0.000 χ^2/NDF :339542.1/22

Left: 0.016+/-0.000 χ^2/NDF : 591766.7/47

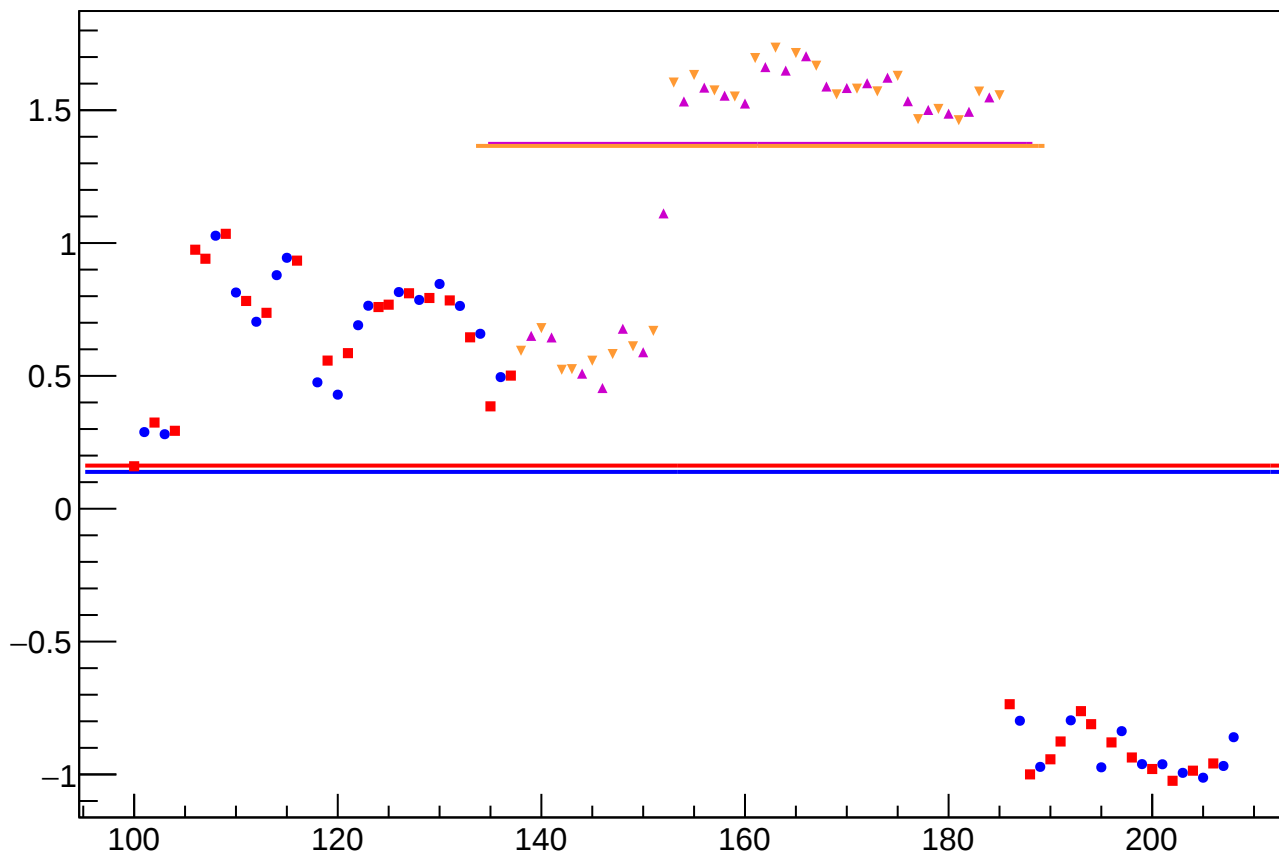
Right: 0.016+/-0.000 χ^2/NDF : 2555759.7/58

In: 0.016+/-0.000 χ^2/NDF :1608790.0/50

Out: 0.016+/-0.000 χ^2/NDF :1531958.5/55

All: 0.016+/-0.000 χ^2/NDF : 3150573.5/106

yield_bpm0l02Y_mean vs Slug, Sign Corrected



Right In: 0.139+/-0.000

χ^2/NDF : 75915188055.6/27

Left Out: 1.366+/-0.000

χ^2/NDF : 74741956067.9/24

Right Out: 0.162+/-0.000

χ^2/NDF : 84127248221.3/30

Left In: 1.373+/-0.000

χ^2/NDF : 63413151416.3/22

Left: 1.369+/-0.000

χ^2/NDF : 138167468300.7/47

Right: 0.151+/-0.000

χ^2/NDF : 160083695969.5/58

In: 1.072+/-0.000

χ^2/NDF : 298125841855.8/50

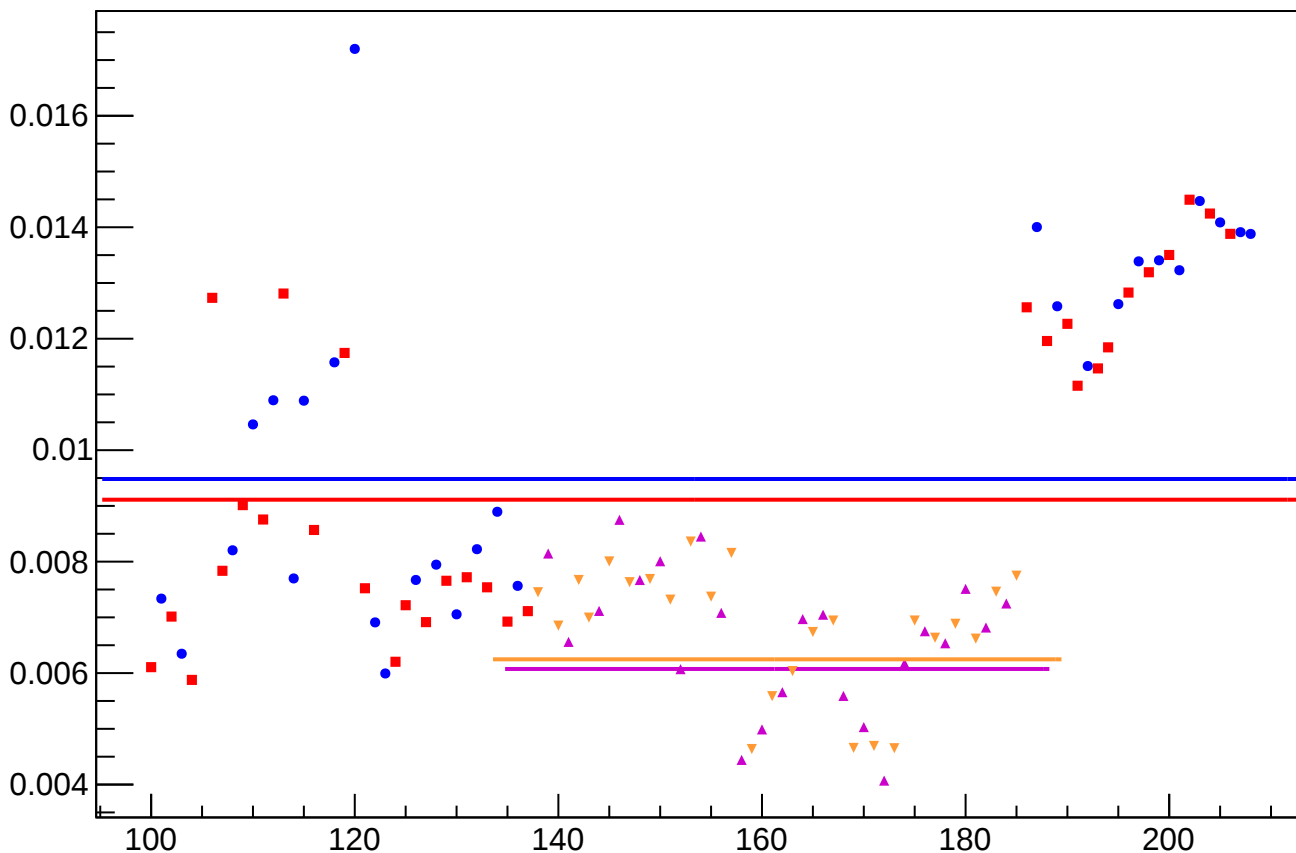
Out: 1.043+/-0.000

χ^2/NDF : 324031004173.9/55

All: 1.057+/-0.000

χ^2/NDF : 622396158110.2

yield_bpm0l02Y_rms vs Slug, Sign Corrected



Right In: 0.009+/-0.000 χ^2/NDF : 2246406.4/27

Left Out: 0.006+/-0.000 χ^2/NDF :1330867.5/24

Right Out: 0.009+/-0.000 χ^2/NDF : 2301552.2/30

Left In: 0.006+/-0.000 χ^2/NDF :1431986.5/22

Left: 0.006+/-0.000 χ^2/NDF : 2775615.7/47

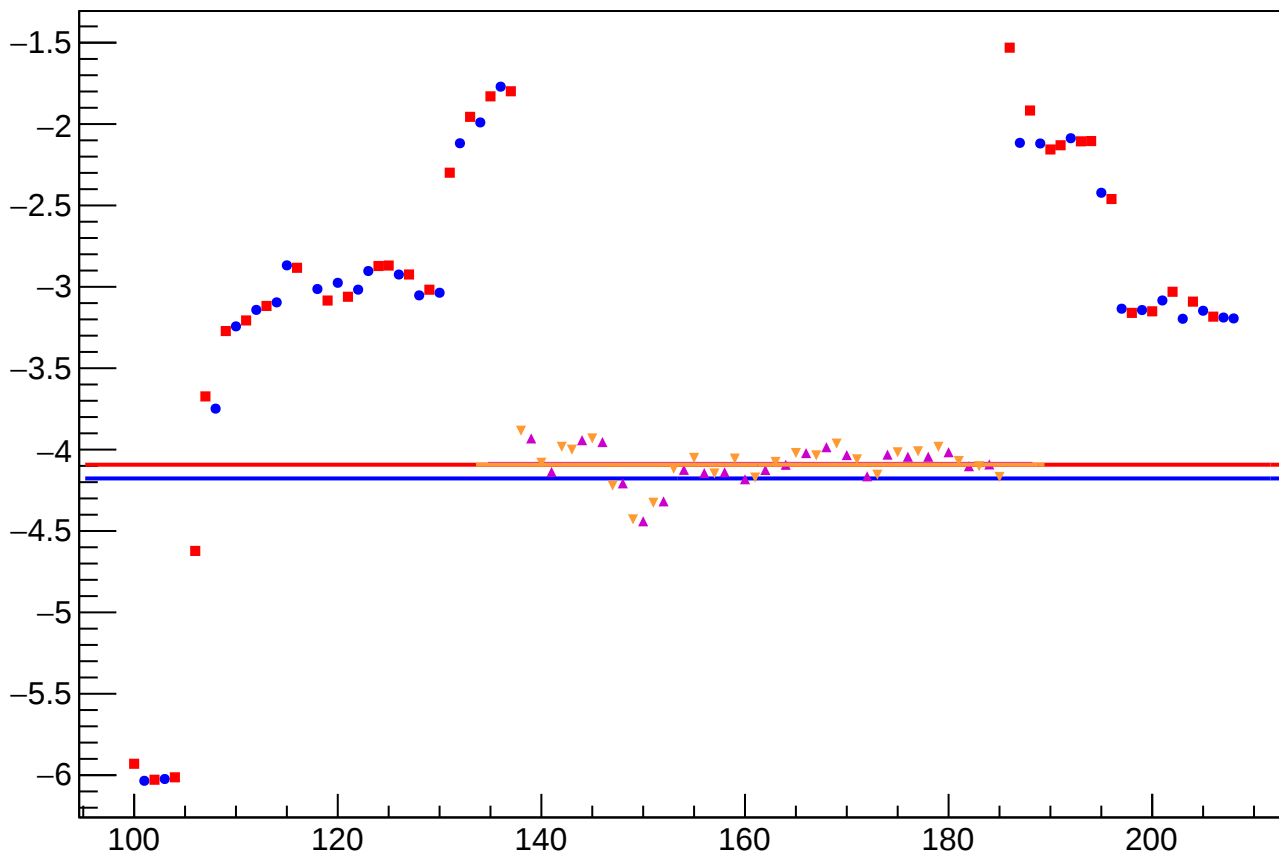
Right: 0.009+/-0.000 χ^2/NDF : 4568126.4/58

In: 0.007+/-0.000 χ^2/NDF :6099463.6/50

Out: 0.007+/-0.000 χ^2/NDF :5504441.8/55

All: 0.007+/-0.000 χ^2/NDF : 11610730.3/106

yield_bpm0l03X_mean vs Slug, Sign Corrected



Right In: -4.177+/-0.000

χ^2/NDF : 280122231503.4/27

Left: -4.089+/-0.000

χ^2/NDF : 74248792.8/47

Left Out: -4.092+/-0.000

χ^2/NDF : 39806766.7/24

Right: -4.143+/-0.000

χ^2/NDF : 548989567037.6/58

Right Out: -4.093+/-0.000

χ^2/NDF : 268536086077.6/30

In: -4.174+/-0.000

χ^2/NDF : 280189550670.9/50

Out: -4.093+/-0.000

χ^2/NDF : 268575895478.8/55

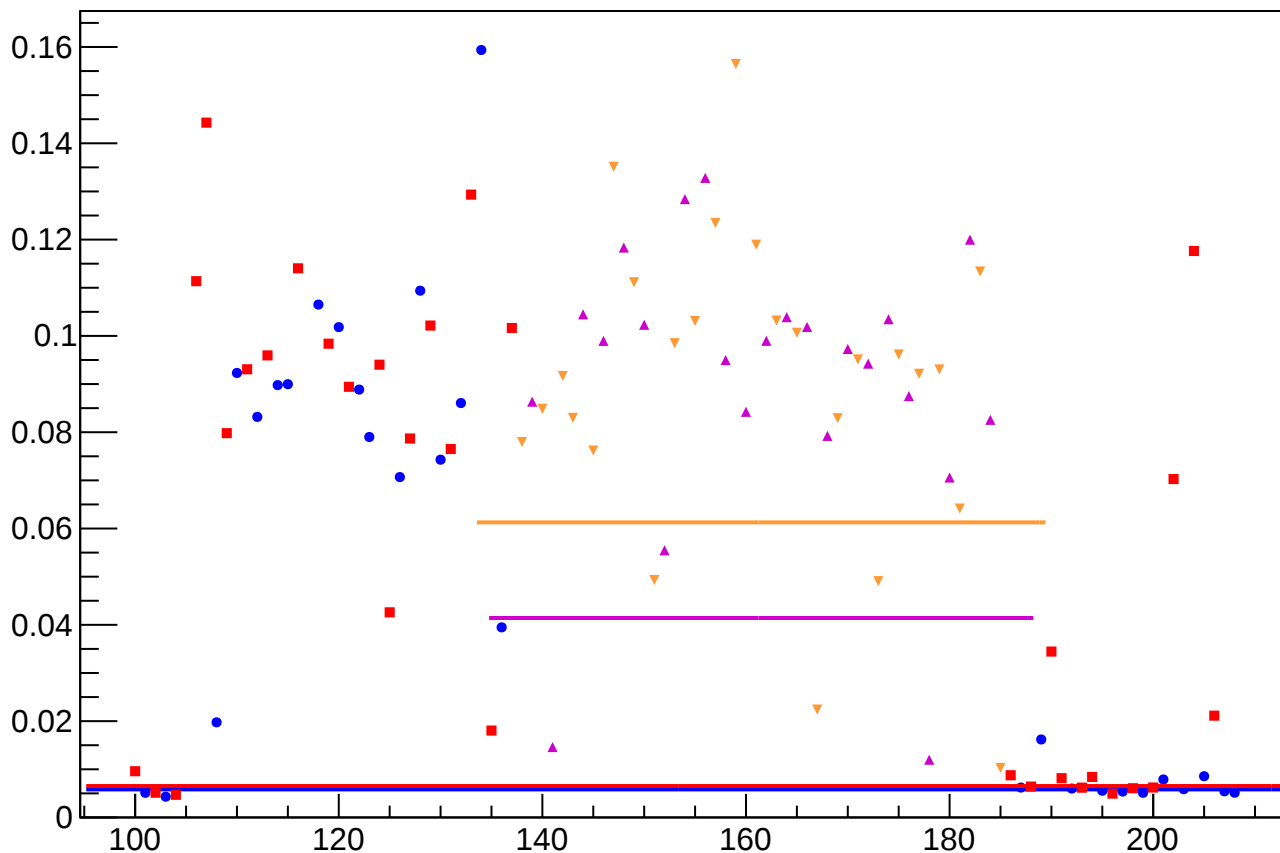
Left In: -4.088+/-0.000

χ^2/NDF : 34412880.7/22

All: -4.141+/-0.000

χ^2/NDF : 549083457661.4

yield_bpm0l03X_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 8075910.6/27

Left Out: 0.061+/-0.000 χ^2/NDF :8355266.0/24

Right Out: 0.007+/-0.000 χ^2/NDF : 10329314.0/30

Left In: 0.041+/-0.000 χ^2/NDF :13124468.7/22

Left: 0.050+/-0.000 χ^2/NDF : 22855159.2/47

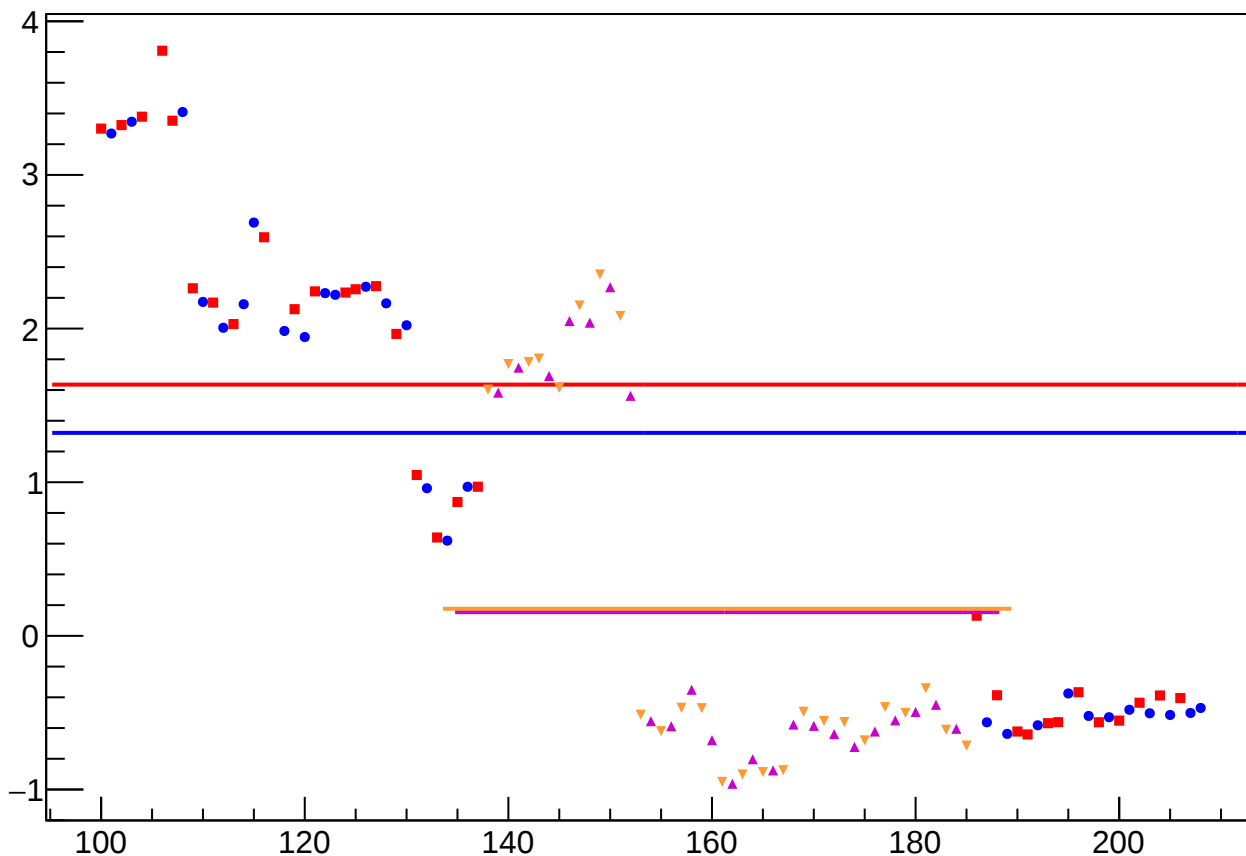
Right: 0.006+/-0.000 χ^2/NDF : 18450411.4/58

In: 0.007+/-0.000 χ^2/NDF :31616543.6/50

Out: 0.008+/-0.000 χ^2/NDF :35750324.5/55

All: 0.008+/-0.000 χ^2/NDF : 67550779.6/106

yield_bpm0l03Y_mean vs Slug, Sign Corrected



Right In: 1.321+/-0.000 χ^2/NDF : 212823786877.7/27

Left Out: 0.177+/-0.000 χ^2/NDF : 3275313367.7/24

Right Out: 1.635+/-0.000 χ^2/NDF : 167700675622.8/30

Left In: 0.154+/-0.000 χ^2/NDF : 3163553595.0/22

Left: 0.165+/-0.000 χ^2/NDF : 6439465655.5/47

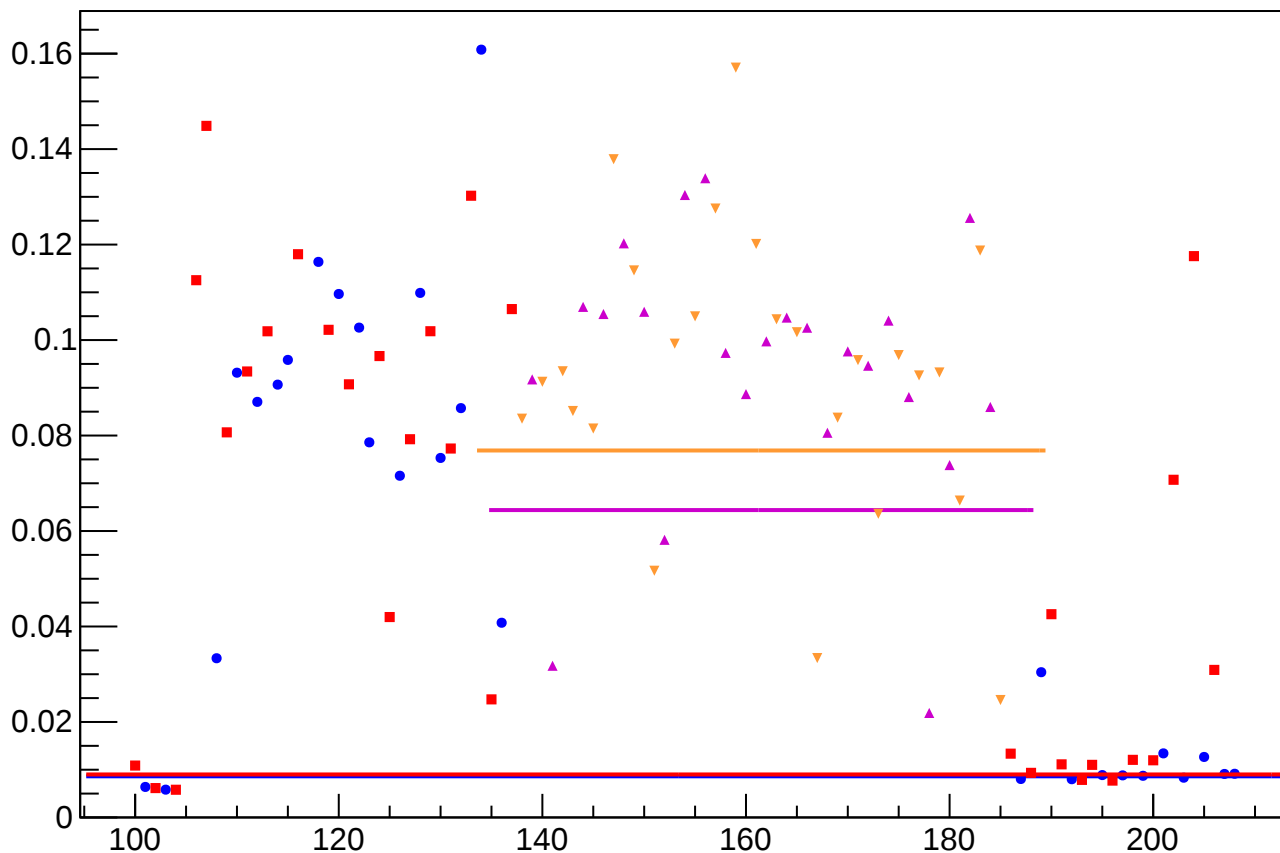
Right: 1.461+/-0.000 χ^2/NDF : 383127292735.4/58

In: 1.273+/-0.000 χ^2/NDF : 219353145779.8/50

Out: 1.569+/-0.000 χ^2/NDF : 175580368003.9/55

All: 1.405+/-0.000 χ^2/NDF : 397354492963.9

yield_bpm0l03Y_rms vs Slug, Sign Corrected



Right In: 0.009+/-0.000 χ^2/NDF : 8030571.9/27

Left Out: 0.077+/-0.000 χ^2/NDF : 4217954.3/24

Right Out: 0.009+/-0.000 χ^2/NDF : 10280460.0/30

Left In: 0.064+/-0.000 χ^2/NDF : 6990231.5/22

Left: 0.070+/-0.000 χ^2/NDF : 11584112.3/47

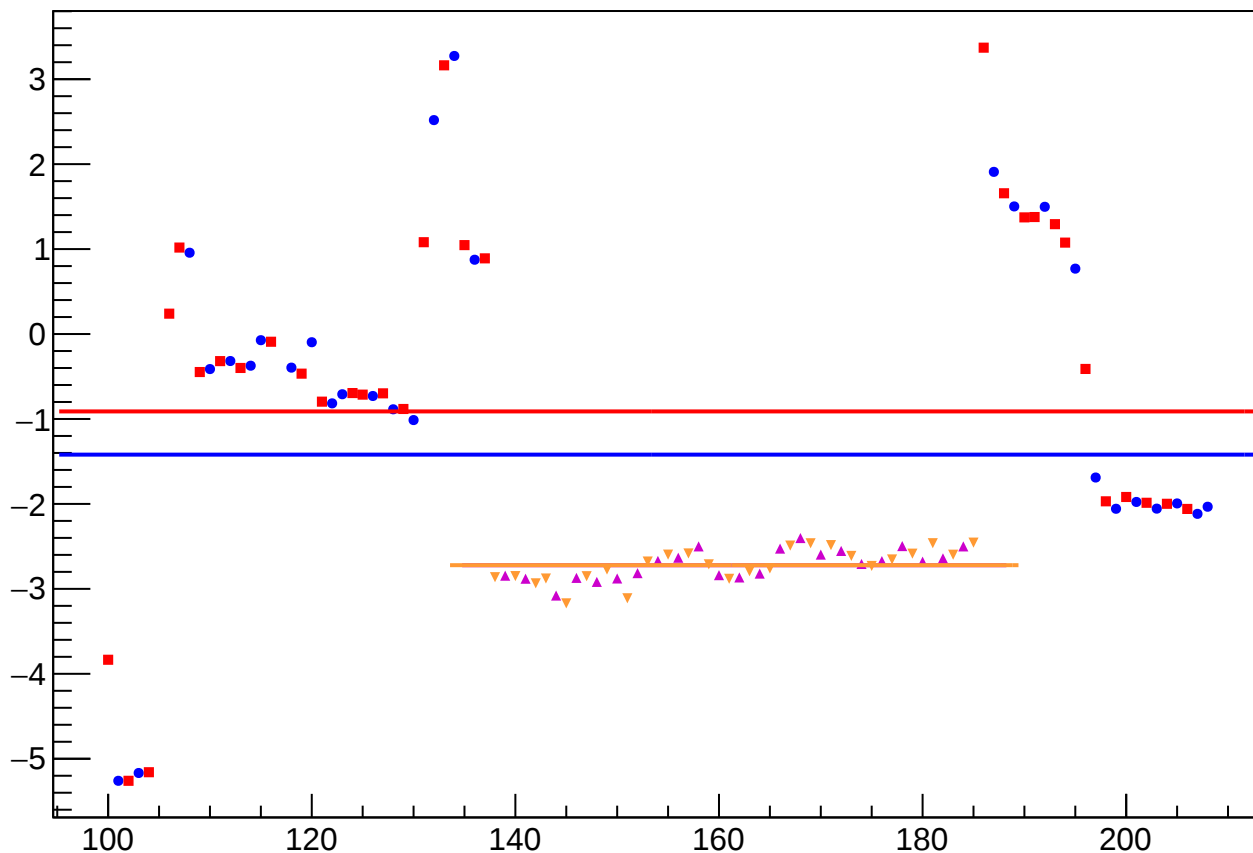
Right: 0.009+/-0.000 χ^2/NDF : 18318909.3/58

In: 0.011+/-0.000 χ^2/NDF : 30395827.3/50

Out: 0.012+/-0.000 χ^2/NDF : 34427836.2/55

All: 0.011+/-0.000 χ^2/NDF : 64897488.5/106

yield_bpm0l04X_mean vs Slug, Sign Corrected



Right In: -1.420+/-0.000 χ^2/NDF : 206178102980.1/27

Left Out: -2.721+/-0.000 χ^2/NDF : 10397156971.6/24

Right Out: -0.911+/-0.000 χ^2/NDF : 235670216105.3/30

Left In: -2.722+/-0.000 χ^2/NDF : 8146484592.1/22

Left: -2.722+/-0.000 χ^2/NDF : 18543711860.5/47

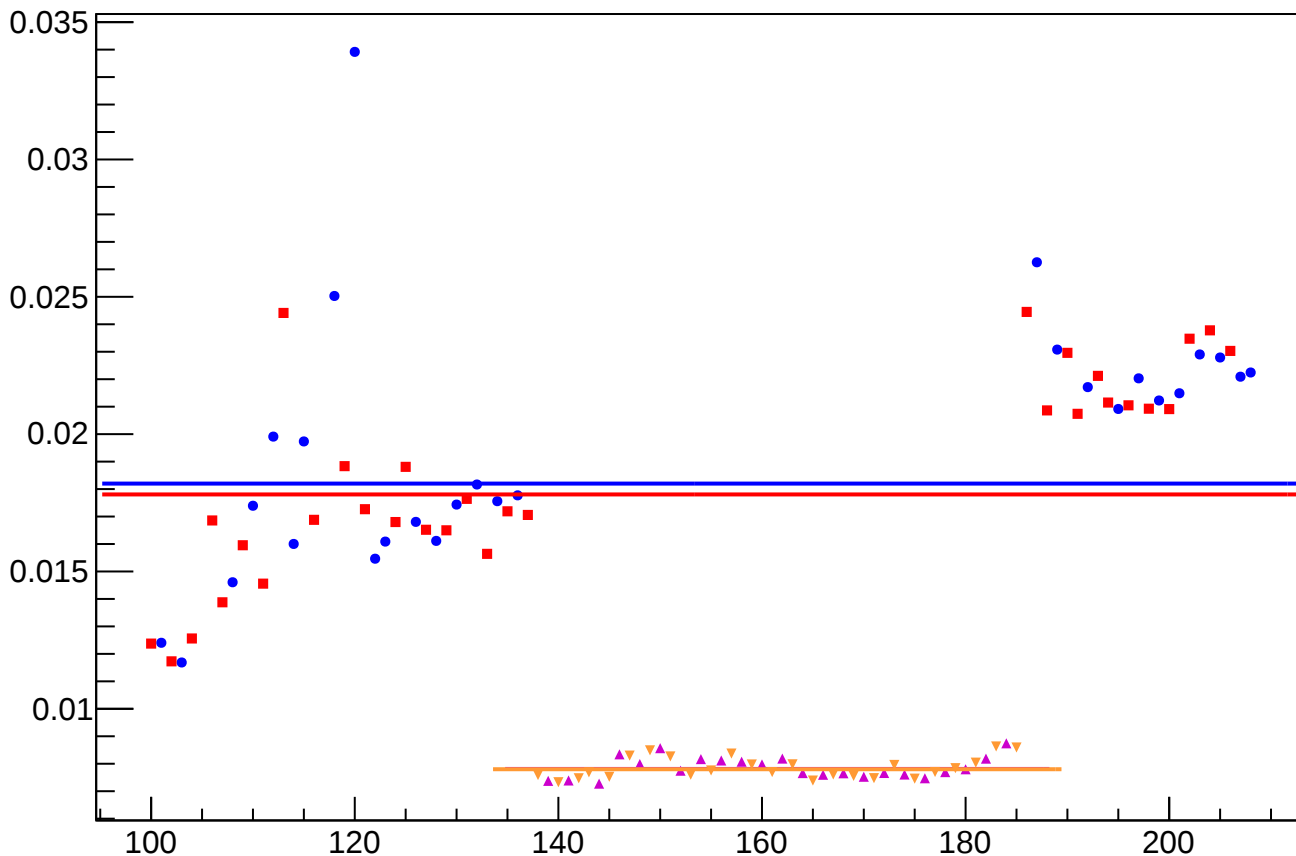
Right: -1.152+/-0.000 χ^2/NDF : 447075945592.2/58

In: -2.562+/-0.000 χ^2/NDF : 271465007335.0/50

Out: -2.490+/-0.000 χ^2/NDF : 367795444859.0/55

All: -2.525+/-0.000 χ^2/NDF : 640085113614.8

yield_bpm0l04X_rms vs Slug, Sign Corrected



Right In: 0.018+/-0.000 χ^2/NDF : 1347585.1/27

Left Out: 0.008+/-0.000 χ^2/NDF : 71164.4/24

Right Out: 0.018+/-0.000 χ^2/NDF : 1238634.6/30

Left In: 0.008+/-0.000 χ^2/NDF : 67610.2/22

Left: 0.008+/-0.000 χ^2/NDF : 138804.4/47

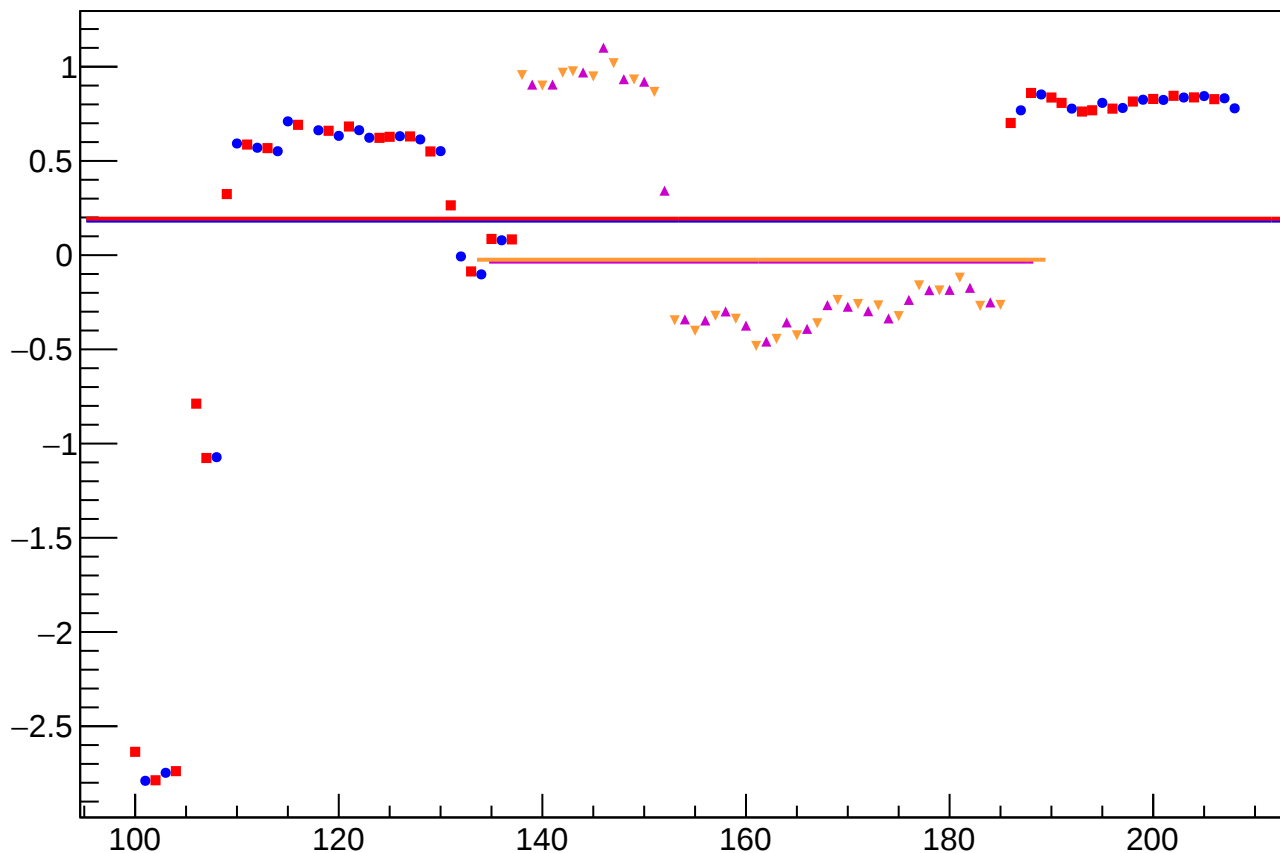
Right: 0.018+/-0.000 χ^2/NDF : 2592526.5/58

In: 0.009+/-0.000 χ^2/NDF : 8689970.4/50

Out: 0.009+/-0.000 χ^2/NDF : 8746461.3/55

All: 0.009+/-0.000 χ^2/NDF : 17436477.8/106

yield_bpm0l04Y_mean vs Slug, Sign Corrected



Right In: 0.183+/-0.000

χ^2/NDF : 872393117164.5/27

Left: -0.029+/-0.000

χ^2/NDF : 249405201350.6/47

Left Out: -0.024+/-0.000

χ^2/NDF : 135451649275.0/24

Right: 0.189+/-0.000

χ^2/NDF : 1800696217434.1/58

Right Out: 0.193+/-0.000

χ^2/NDF : 928260843896.2/30

In: 0.101+/-0.000

χ^2/NDF : 1000087931687.1/50

Out: 0.115+/-0.000

χ^2/NDF : 1078301807968.9/55

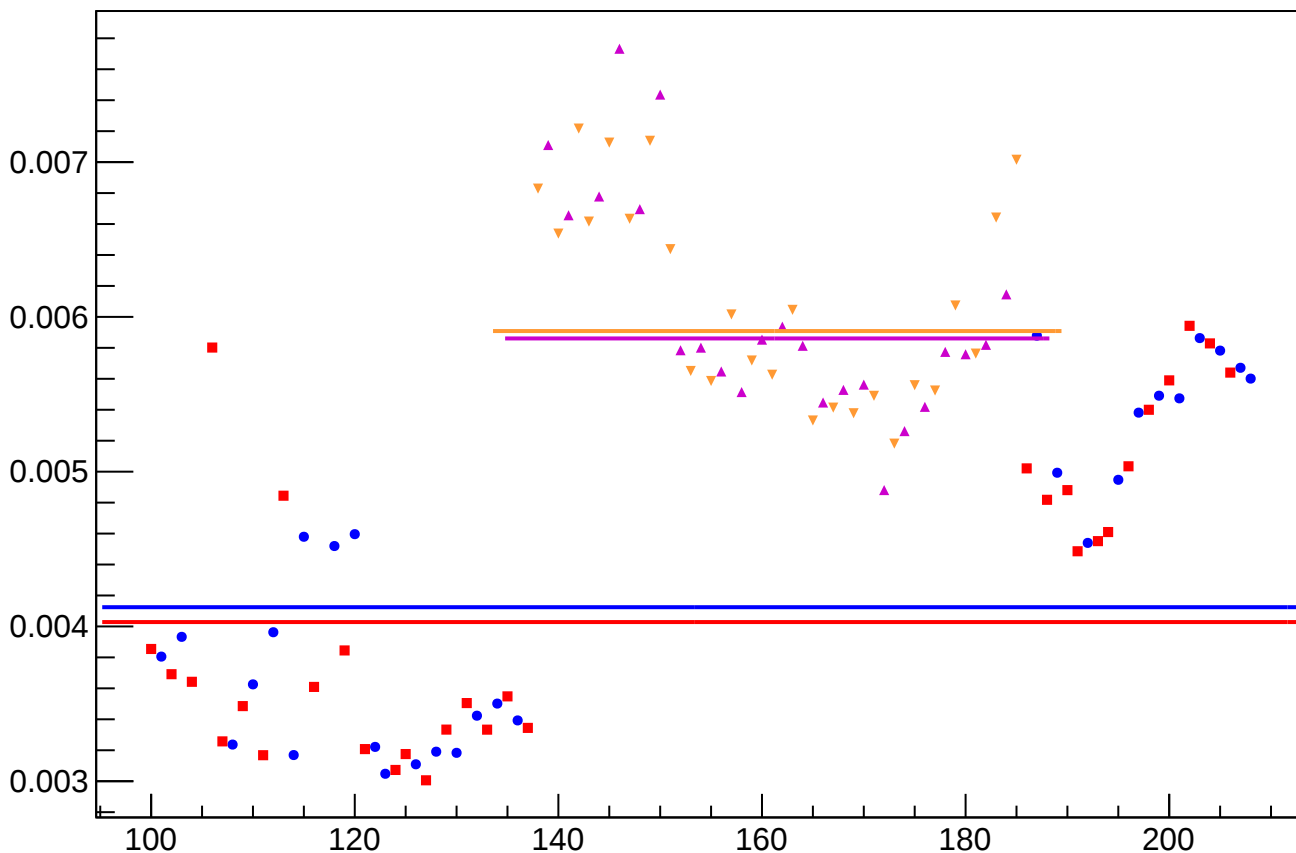
Left In: -0.034+/-0.000

χ^2/NDF : 113929060918.1/22

All: 0.108+/-0.000

χ^2/NDF : 2078500649351.0/100

yield_bpm0l04Y_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 1405140.9/27

Left Out: 0.006+/-0.000 χ^2/NDF :314309.7/24

Right Out: 0.004+/-0.000 χ^2/NDF : 1379905.9/30

Left In: 0.006+/-0.000 χ^2/NDF :364512.1/22

Left: 0.006+/-0.000 χ^2/NDF : 679905.3/47

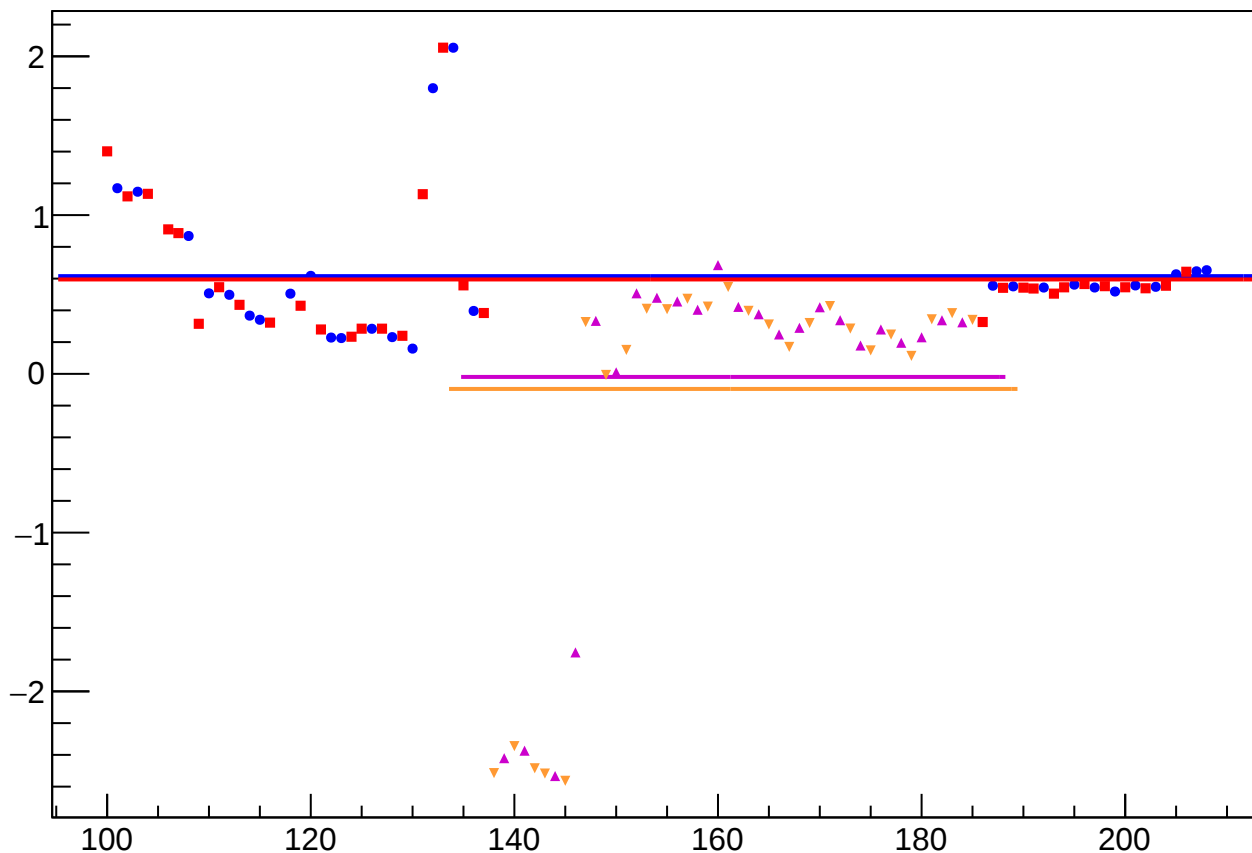
Right: 0.004+/-0.000 χ^2/NDF : 2792523.8/58

In: 0.005+/-0.000 χ^2/NDF :3523087.0/50

Out: 0.005+/-0.000 χ^2/NDF :3872238.6/55

All: 0.005+/-0.000 χ^2/NDF : 7401171.7/106

yield_bpm0l05X_mean vs Slug, Sign Corrected



Right In: 0.616+/-0.000

χ^2/NDF : 40613158150.1/27

Left: -0.058+/-0.000

χ^2/NDF : 924153662333.7/47

Left Out: -0.095+/-0.000

χ^2/NDF : 505606573631.9/24

Right: 0.605+/-0.000

χ^2/NDF : 86797562647.8/58

Right Out: 0.595+/-0.000

χ^2/NDF : 45999523469.7/30

In: 0.376+/-0.000

χ^2/NDF : 581638802787.5/50

Out: 0.339+/-0.000

χ^2/NDF : 705868184093.4/55

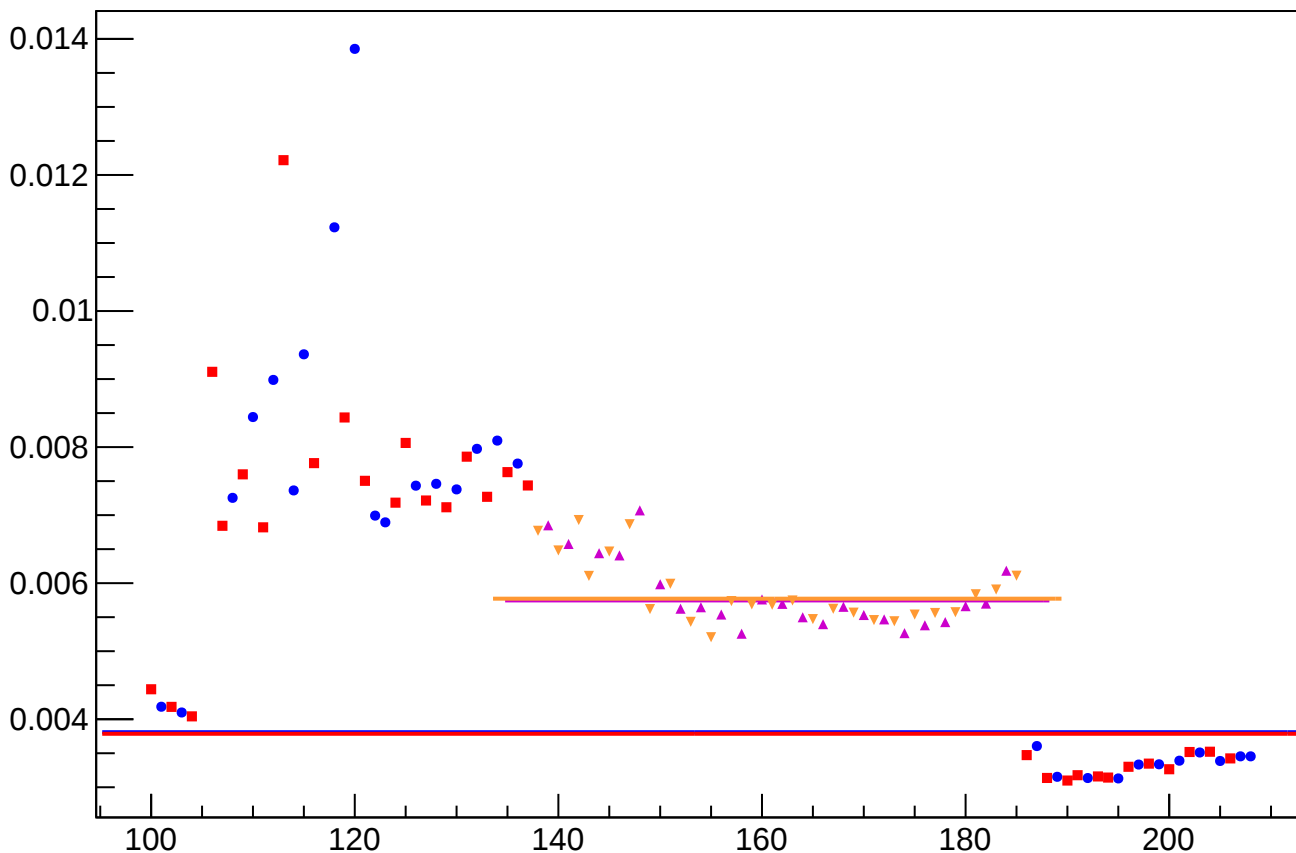
Left In: -0.019+/-0.000

χ^2/NDF : 417104863944.5/22

All: 0.357+/-0.000

χ^2/NDF : 1288433051386.

yield_bpm0l05X_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 3125517.6/27

Left Out: 0.006+/-0.000 χ^2/NDF :177680.7/24

Right Out: 0.004+/-0.000 χ^2/NDF : 3151286.3/30

Left In: 0.006+/-0.000 χ^2/NDF :204066.4/22

Left: 0.006+/-0.000 χ^2/NDF : 382076.8/47

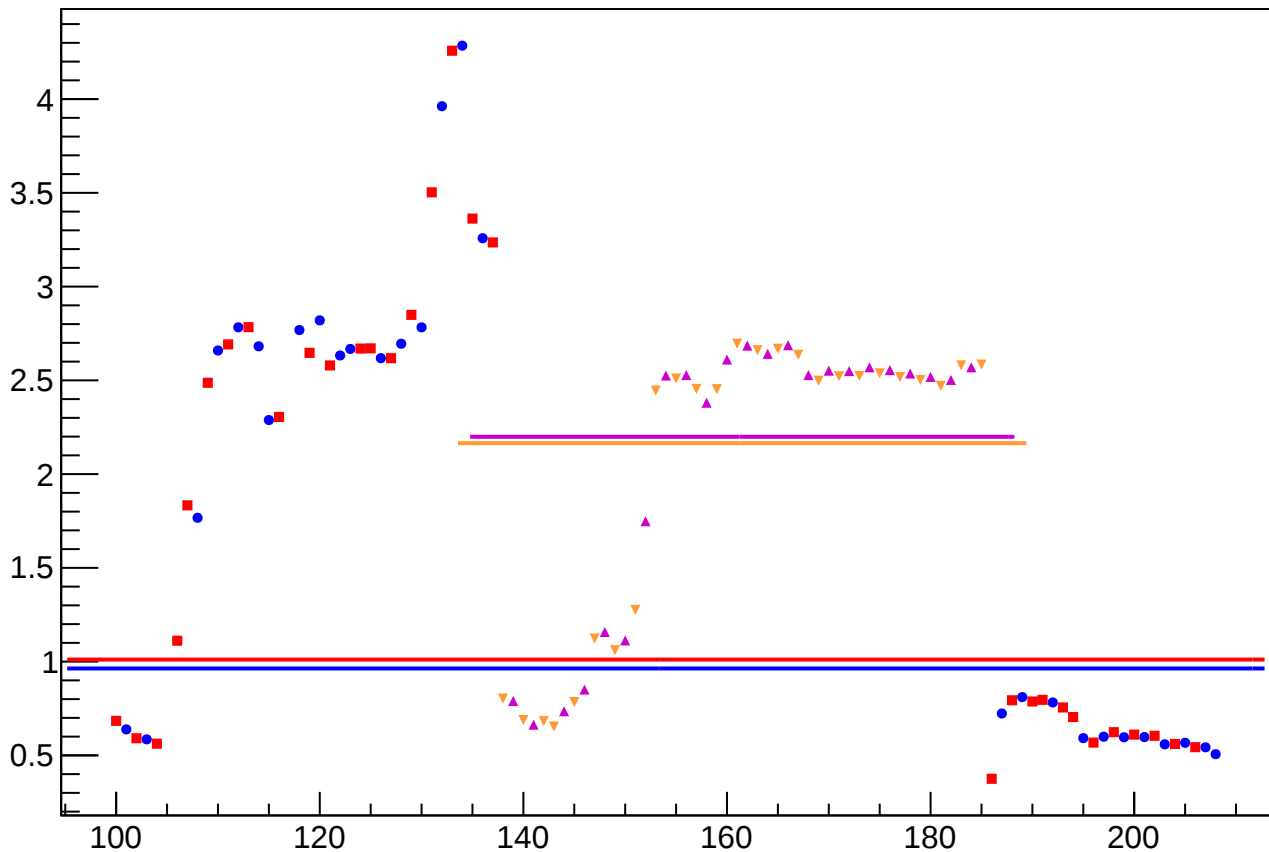
Right: 0.004+/-0.000 χ^2/NDF : 6277252.3/58

In: 0.005+/-0.000 χ^2/NDF :5637030.5/50

Out: 0.005+/-0.000 χ^2/NDF :5887372.0/55

All: 0.005+/-0.000 χ^2/NDF : 11524823.0/106

yield_bpm0l05Y_mean vs Slug, Sign Corrected



Right In: 0.963 $\pm$ 0.000 χ^2/NDF : 297811750794.3/27

Left Out: 2.165 $\pm$ 0.000 χ^2/NDF : 292800056899.6/24

Right Out: 1.011 $\pm$ 0.000 χ^2/NDF : 340796673715.9/30

Left In: 2.199 $\pm$ 0.000 χ^2/NDF : 253166239065.4/22

Left: 2.182 $\pm$ 0.000 χ^2/NDF : 546302258971.9/47

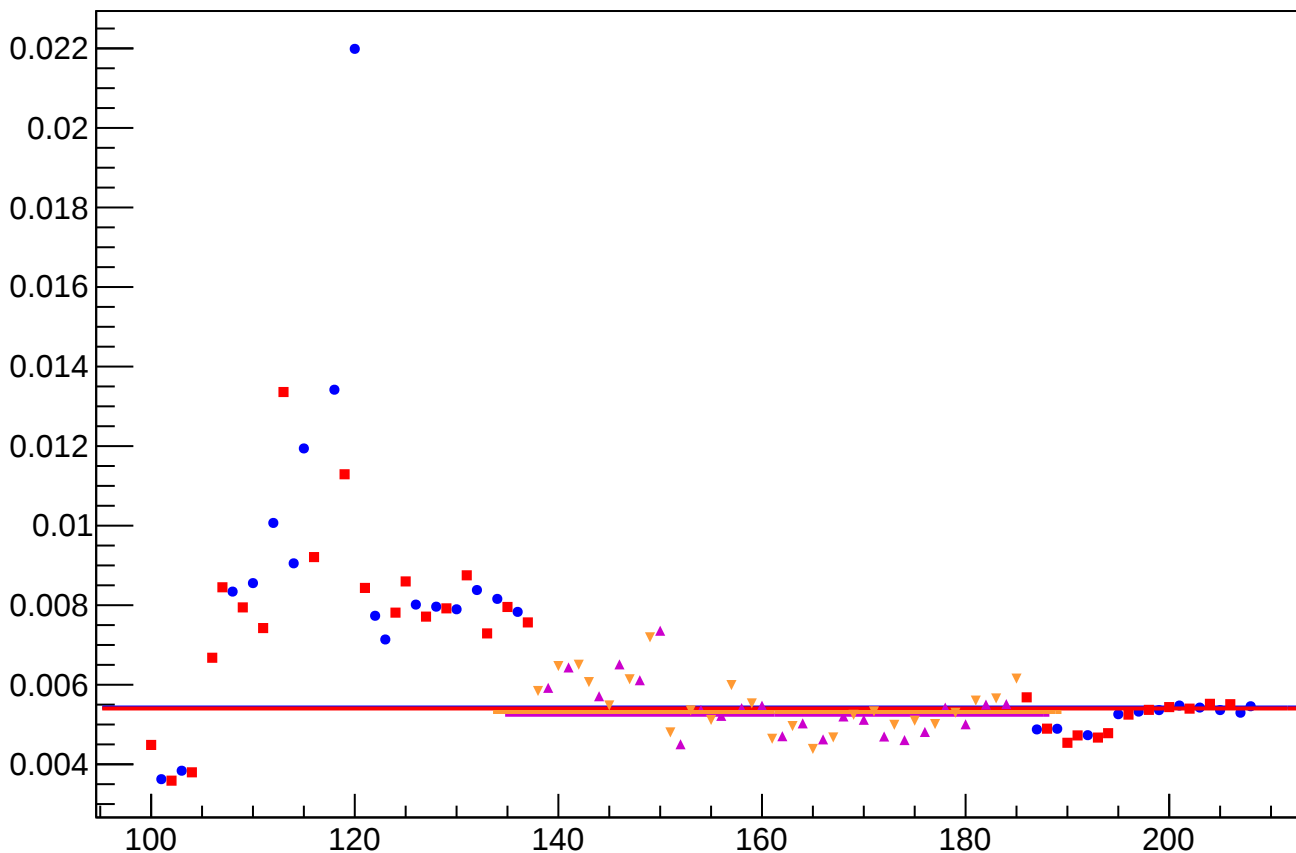
Right: 0.988 $\pm$ 0.000 χ^2/NDF : 639093732950.5/58

In: 1.679 $\pm$ 0.000 χ^2/NDF : 918762310759.0/50

Out: 1.667 $\pm$ 0.000 χ^2/NDF : 970976821788.9/55

All: 1.673 $\pm$ 0.000 χ^2/NDF : 1889809059077.0

yield_bpm0l05Y_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 2006199.8/27

Left Out: 0.005+/-0.000 χ^2/NDF : 398795.0/24

Right Out: 0.005+/-0.000 χ^2/NDF : 1877587.4/30

Left In: 0.005+/-0.000 χ^2/NDF : 425864.8/22

Left: 0.005+/-0.000 χ^2/NDF : 827475.4/47

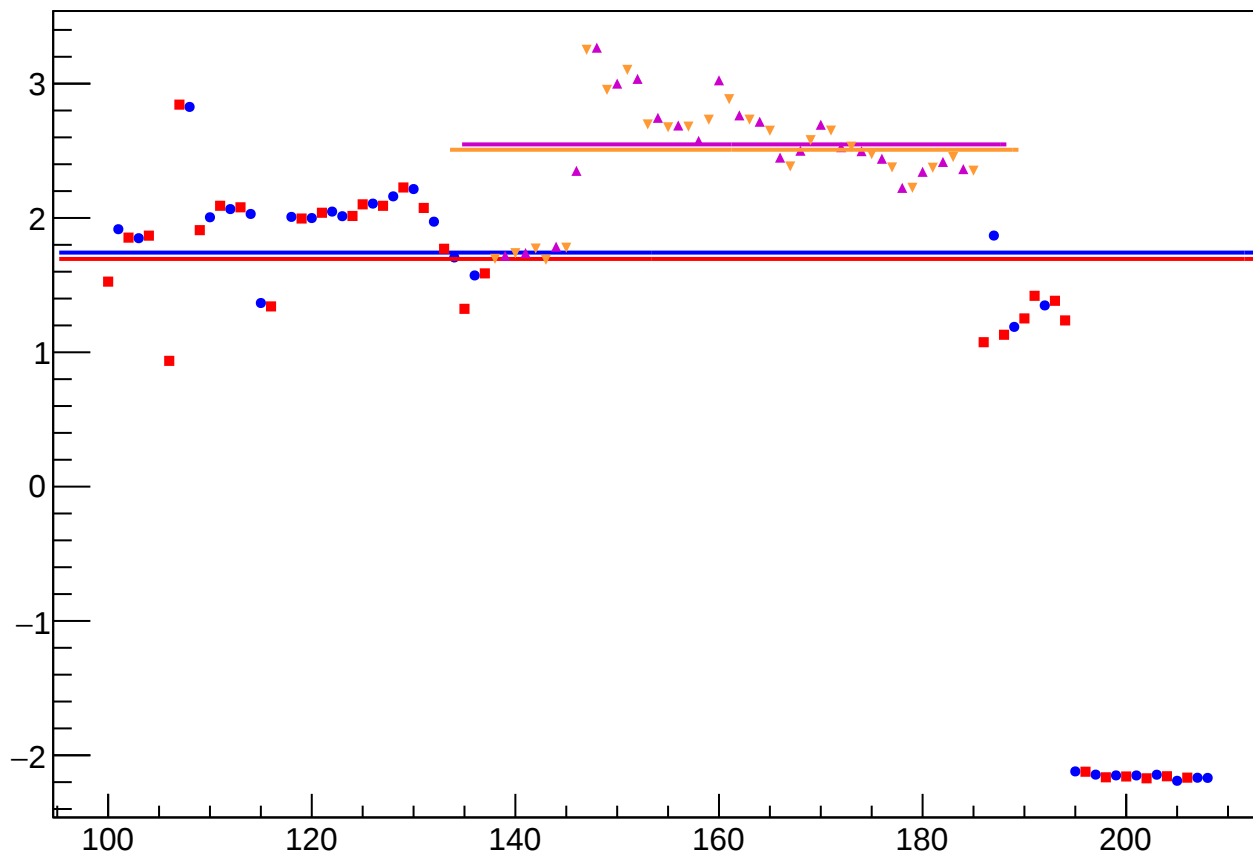
Right: 0.005+/-0.000 χ^2/NDF : 3884048.5/58

In: 0.005+/-0.000 χ^2/NDF : 2448087.3/50

Out: 0.005+/-0.000 χ^2/NDF : 2280309.0/55

All: 0.005+/-0.000 χ^2/NDF : 4729361.3/106

yield_bpm0l06X_mean vs Slug, Sign Corrected



Right In: 1.742 $\pm$ 0.000 χ^2 /NDF: 146053162422.0/27

Left Out: 2.508 $\pm$ 0.000 χ^2 /NDF: 52355332406.0/24

Right Out: 1.695 $\pm$ 0.000 χ^2 /NDF: 124567020173.7/30

Left In: 2.548 $\pm$ 0.000 χ^2 /NDF: 45350336058.7/22

Left: 2.527 $\pm$ 0.000 χ^2 /NDF: 97963993742.3/47

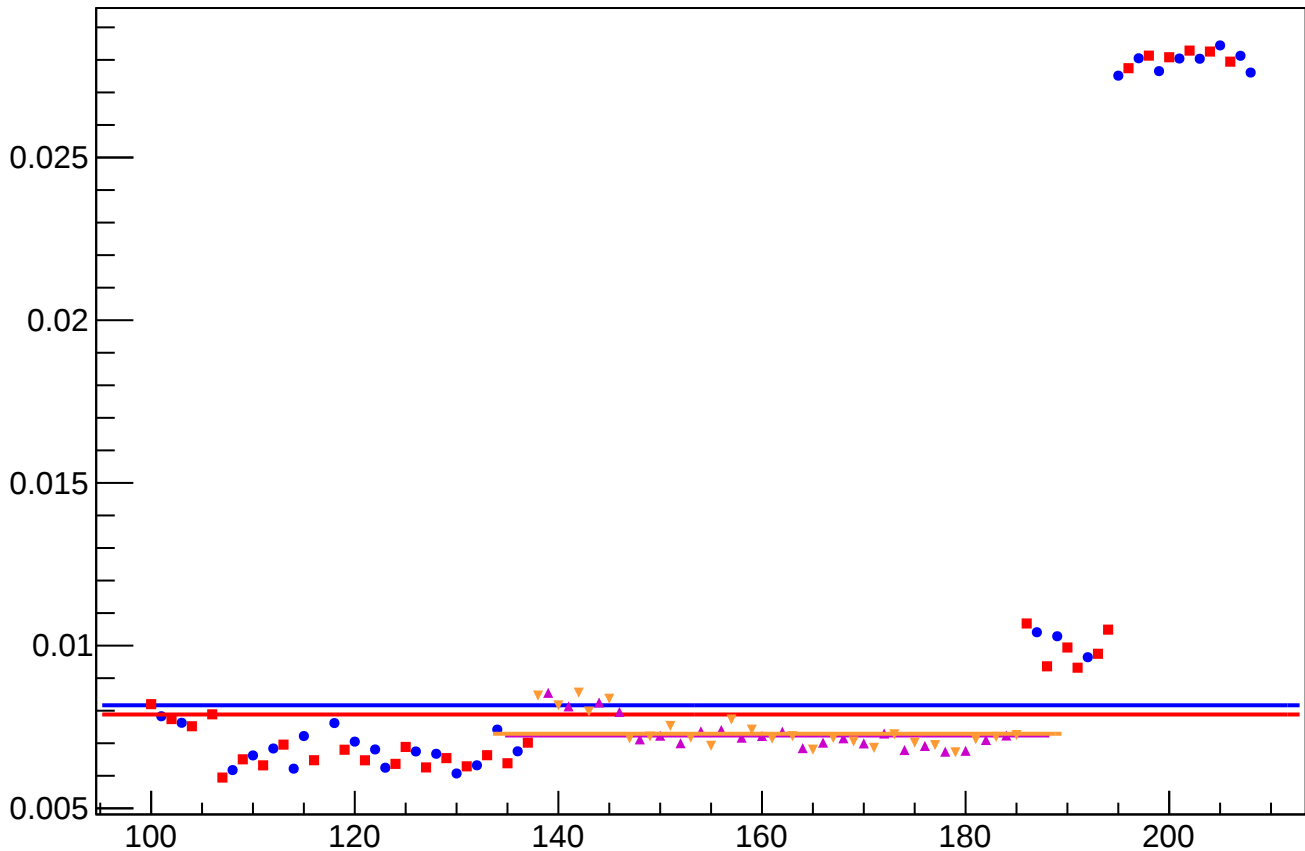
Right: 1.717 $\pm$ 0.000 χ^2 /NDF: 270814457243.5/58

In: 2.278 $\pm$ 0.000 χ^2 /NDF: 260239561778.2/50

Out: 2.209 $\pm$ 0.000 χ^2 /NDF: 256742013737.7/55

All: 2.242 $\pm$ 0.000 χ^2 /NDF: 518175560635.1

yield_bpm0l06X_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 6893780.4/27

Left Out: 0.007+/-0.000 χ^2/NDF :140788.4/24

Right Out: 0.008+/-0.000 χ^2/NDF : 5539148.0/30

Left In: 0.007+/-0.000 χ^2/NDF :125233.2/22

Left: 0.007+/-0.000 χ^2/NDF : 266945.6/47

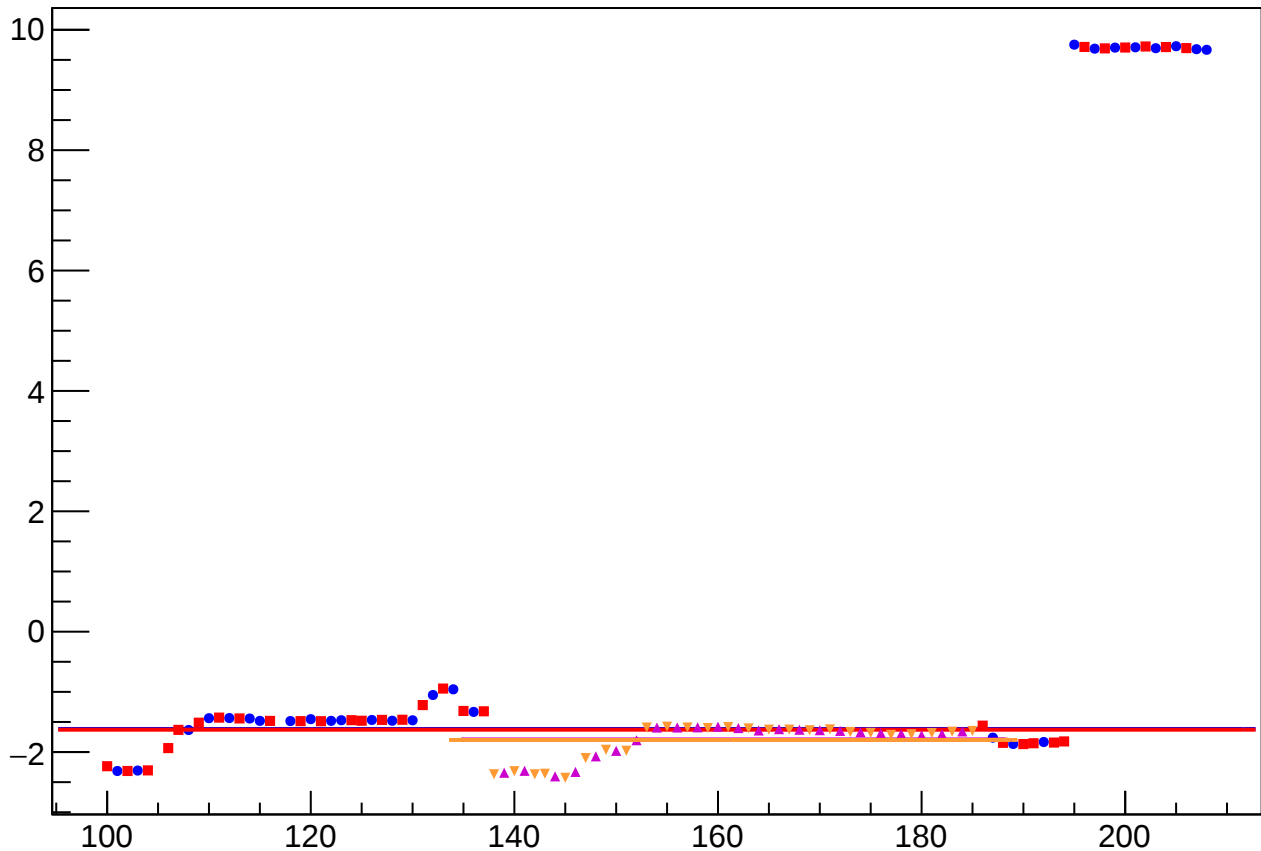
Right: 0.008+/-0.000 χ^2/NDF : 12446859.9/58

In: 0.008+/-0.000 χ^2/NDF :7201964.8/50

Out: 0.008+/-0.000 χ^2/NDF :5764633.7/55

All: 0.008+/-0.000 χ^2/NDF : 12967378.1/106

yield_bpm0l06Y_mean vs Slug, Sign Corrected



Right In: -1.617+/-0.000

χ^2/NDF : 359150240835.8/27

Left: -1.795+/-0.000

χ^2/NDF : 345099435201.4/47

Left Out: -1.799+/-0.000

χ^2/NDF : 185362087438.8/24

Right: -1.623+/-0.000

χ^2/NDF : 674622865434.2/58

Right Out: -1.628+/-0.000

χ^2/NDF : 315395462203.2/30

In: -1.736+/-0.000

χ^2/NDF : 540297481481.9/50

Out: -1.739+/-0.000

χ^2/NDF : 525056187175.7/55

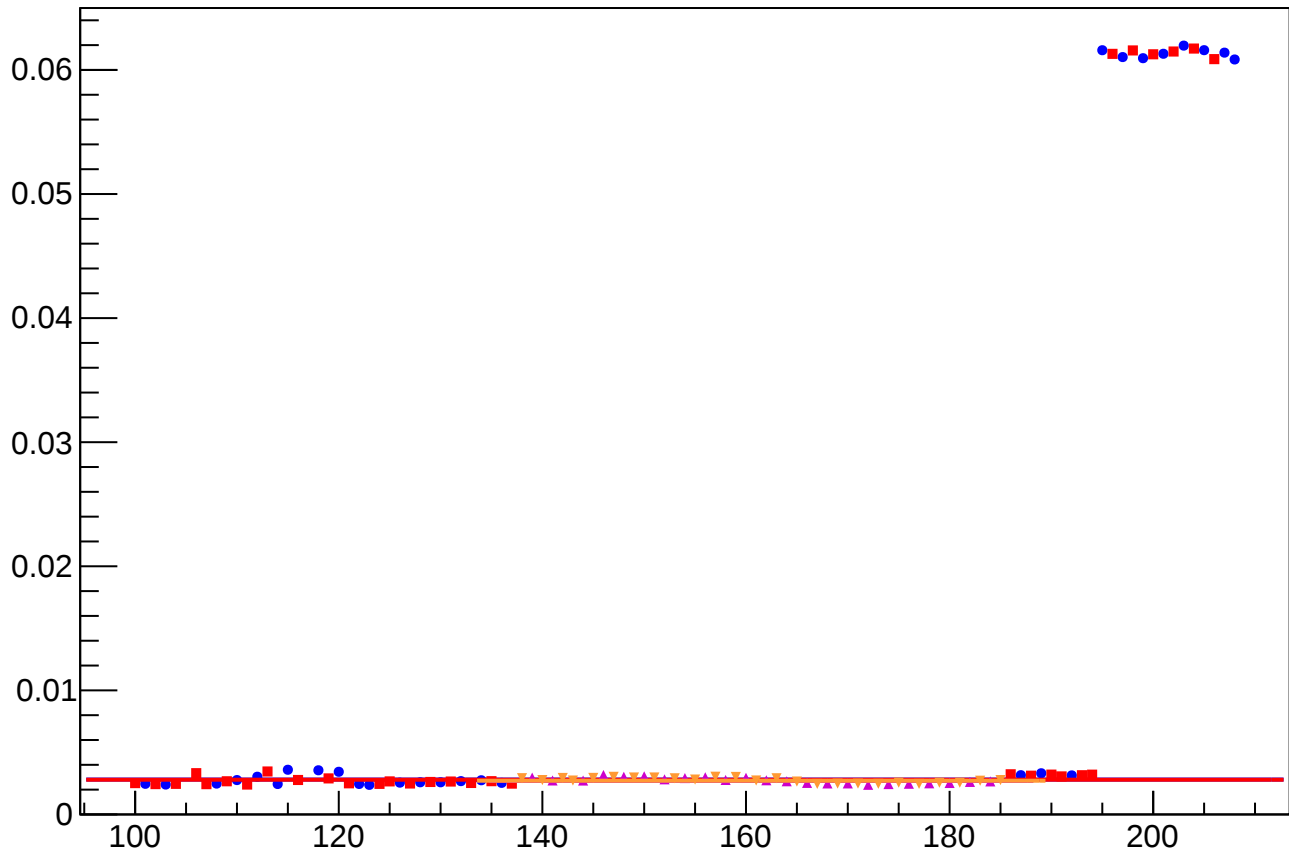
Left In: -1.790+/-0.000

χ^2/NDF : 159648935510.8/22

All: -1.737+/-0.000

χ^2/NDF : 1065370493825

yield_bpm0l06Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 11570390.5/27

Left Out: 0.003+/-0.000 χ^2/NDF :199695.2/24

Right Out: 0.003+/-0.000 χ^2/NDF : 8614346.6/30

Left In: 0.003+/-0.000 χ^2/NDF :220327.9/22

Left: 0.003+/-0.000 χ^2/NDF : 420716.9/47

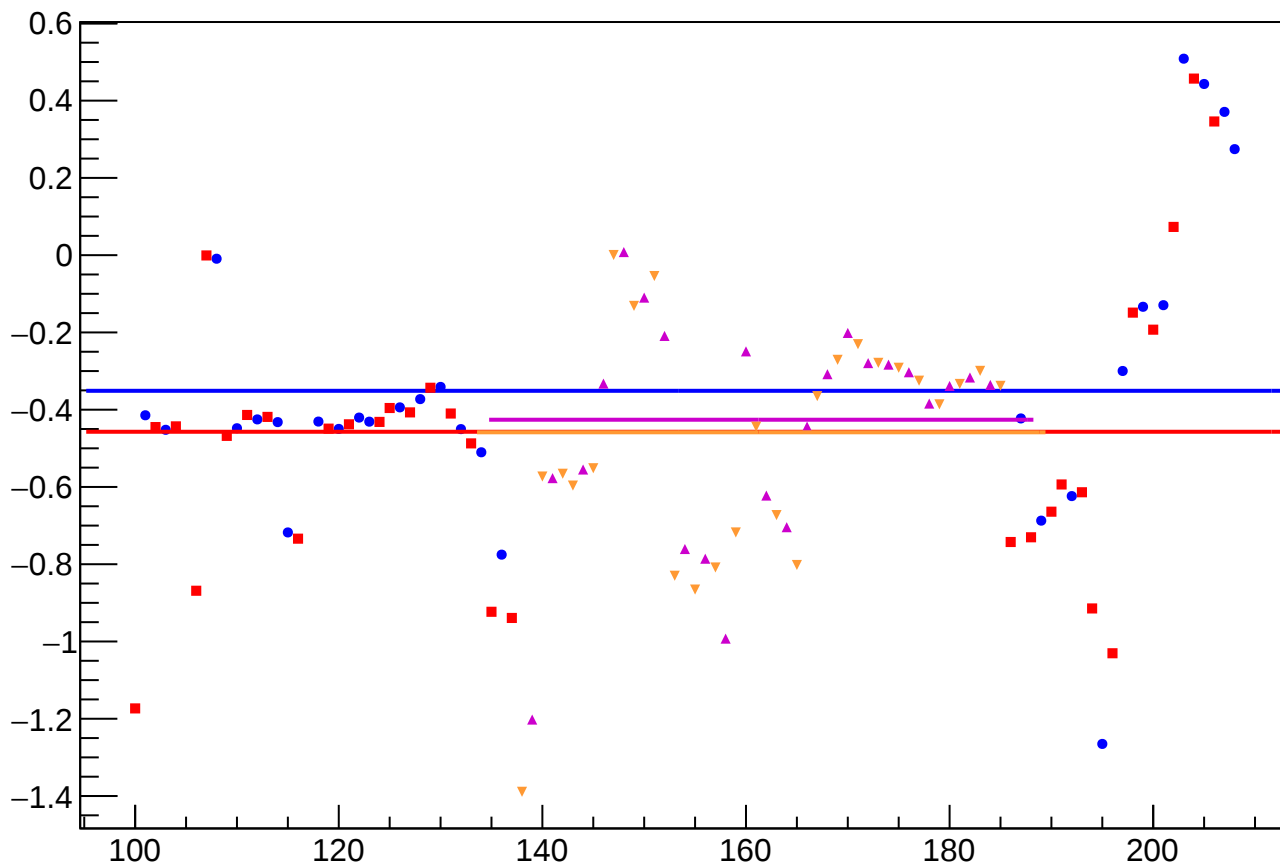
Right: 0.003+/-0.000 χ^2/NDF : 20184939.7/58

In: 0.003+/-0.000 χ^2/NDF :11808593.4/50

Out: 0.003+/-0.000 χ^2/NDF :8825066.8/55

All: 0.003+/-0.000 χ^2/NDF : 20634064.6/106

yield_bpm0l07X_mean vs Slug, Sign Corrected



Right In: -0.351 ± 0.000 $\chi^2/\text{NDF}: 10024211695.0/27$

Left Out: -0.459 ± 0.000 $\chi^2/\text{NDF}: 9916462814.9/24$

Right Out: -0.457 ± 0.000 $\chi^2/\text{NDF}: 8773684520.8/30$

Left In: -0.426 ± 0.000 $\chi^2/\text{NDF}: 8424222576.0/22$

Left: -0.443 ± 0.000 $\chi^2/\text{NDF}: 18401926676.9/47$

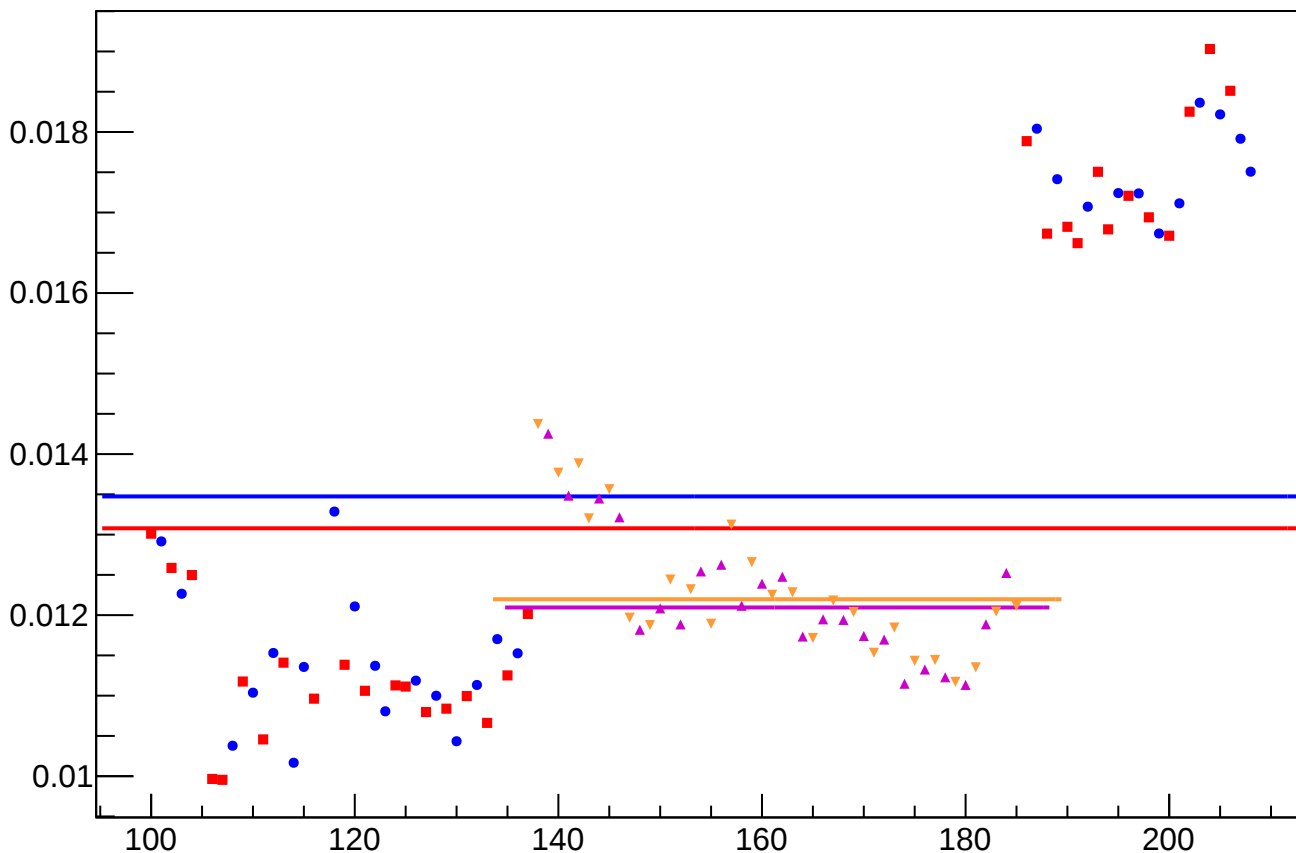
Right: -0.407 ± 0.000 $\chi^2/\text{NDF}: 19235270471.1/58$

In: -0.396 ± 0.000 $\chi^2/\text{NDF}: 18699430040.2/50$

Out: -0.458 ± 0.000 $\chi^2/\text{NDF}: 18690240231.2/55$

All: -0.428 ± 0.000 $\chi^2/\text{NDF}: 37756034944.1/100$

yield_bpm0l07X_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 1263327.5/27

Left Out: 0.012+/-0.000 χ^2/NDF :141850.9/24

Right Out: 0.013+/-0.000 χ^2/NDF : 1474444.5/30

Left In: 0.012+/-0.000 χ^2/NDF :127308.3/22

Left: 0.012+/-0.000 χ^2/NDF : 270367.5/47

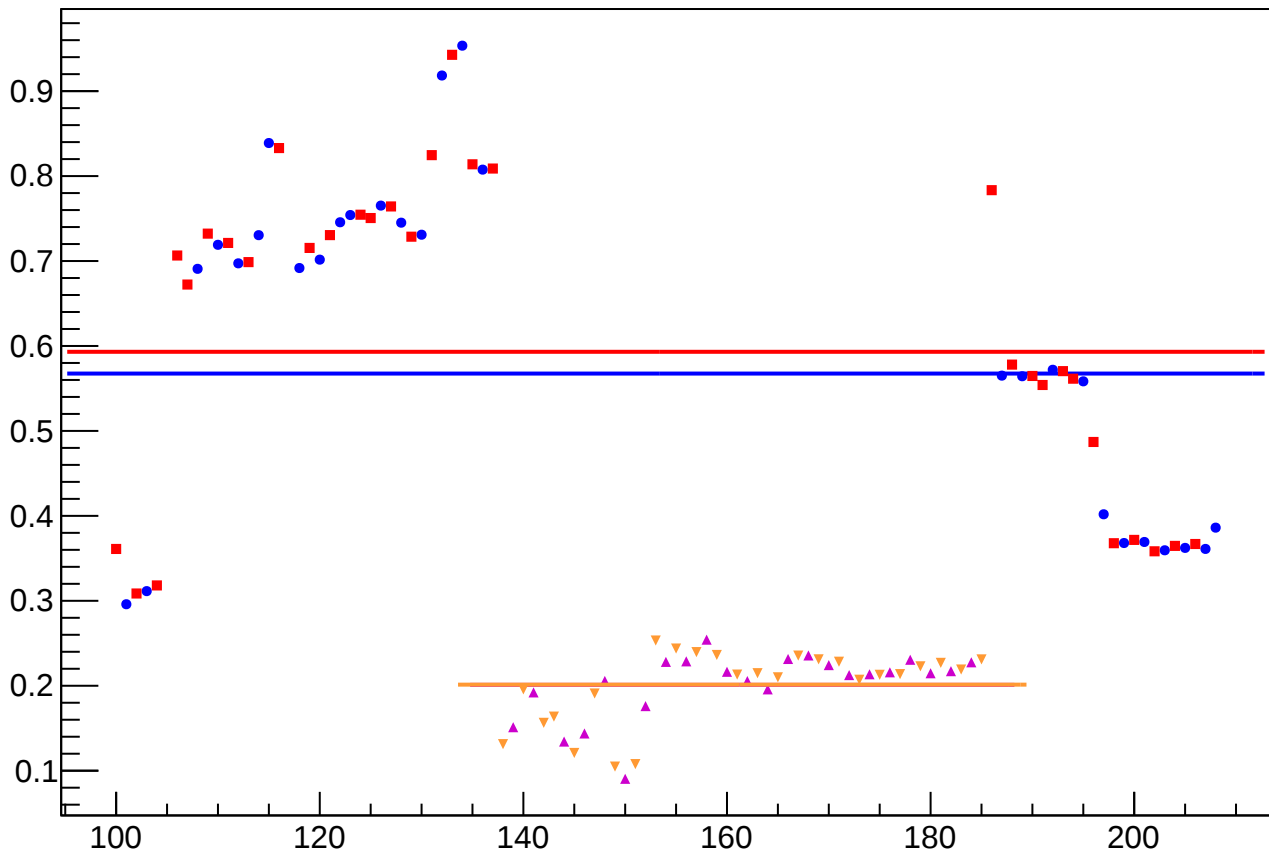
Right: 0.013+/-0.000 χ^2/NDF : 2749968.0/58

In: 0.013+/-0.000 χ^2/NDF :1560986.2/50

Out: 0.013+/-0.000 χ^2/NDF :1691490.9/55

All: 0.013+/-0.000 χ^2/NDF : 3253745.9/106

yield_bpm0l07Y_mean vs Slug, Sign Corrected



Right In: 0.568+/-0.000

χ^2/NDF : 72715260747.5/27

Left: 0.201+/-0.000

χ^2/NDF : 12762673178.0/47

Left Out: 0.201+/-0.000

χ^2/NDF : 7090760823.7/24

Right: 0.581+/-0.000

χ^2/NDF : 140961852681.4/58

Right Out: 0.593+/-0.000

χ^2/NDF : 67616445298.7/30

In: 0.322+/-0.000

χ^2/NDF : 246978781284.8/50

Out: 0.330+/-0.000

χ^2/NDF : 278148961416.2/55

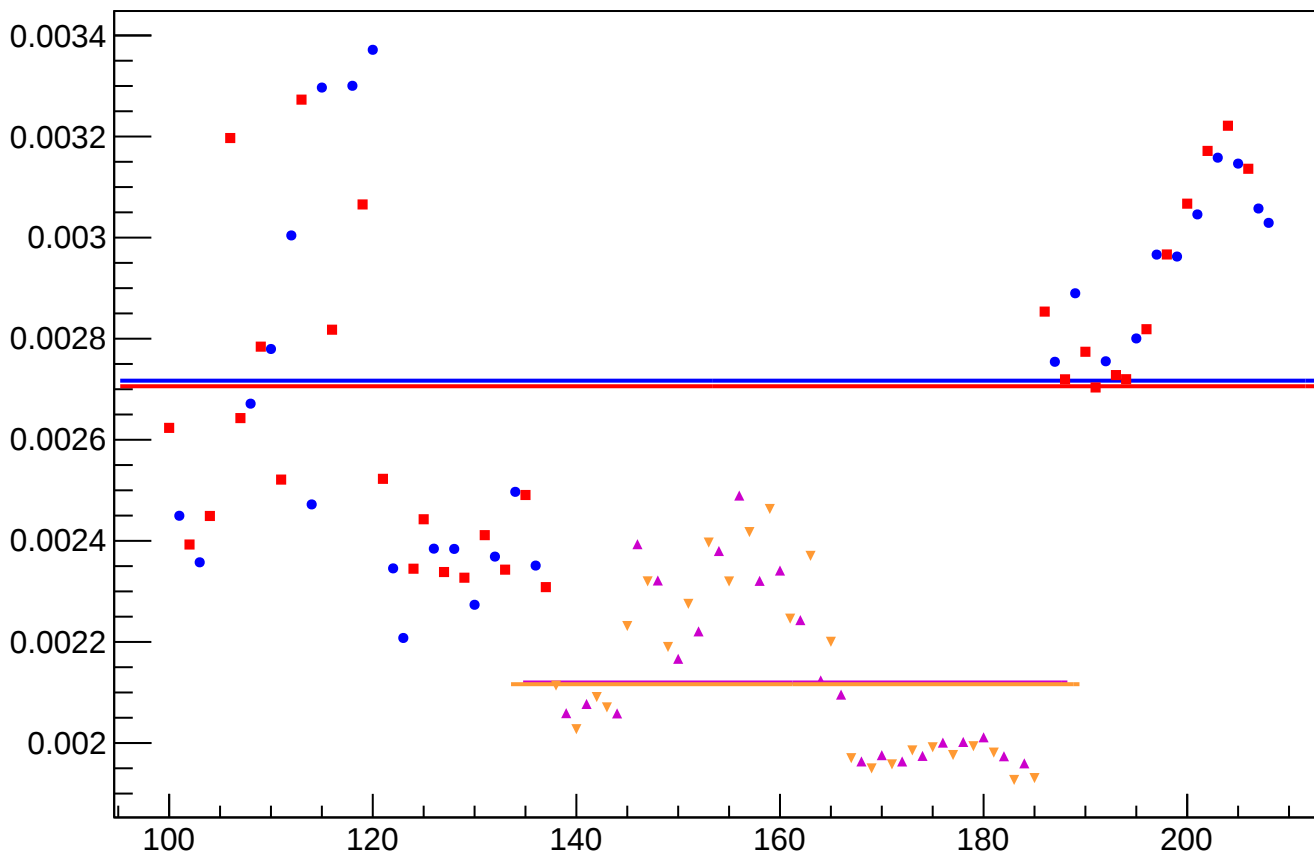
Left In: 0.201+/-0.000

χ^2/NDF : 5671770181.2/22

All: 0.326+/-0.000

χ^2/NDF : 525305366409.8

yield_bpm0l07Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 400882.9/27

Left Out: 0.002+/-0.000 χ^2/NDF :224498.3/24

Right Out: 0.003+/-0.000 χ^2/NDF : 323516.7/30

Left In: 0.002+/-0.000 χ^2/NDF :189228.6/22

Left: 0.002+/-0.000 χ^2/NDF : 413772.2/47

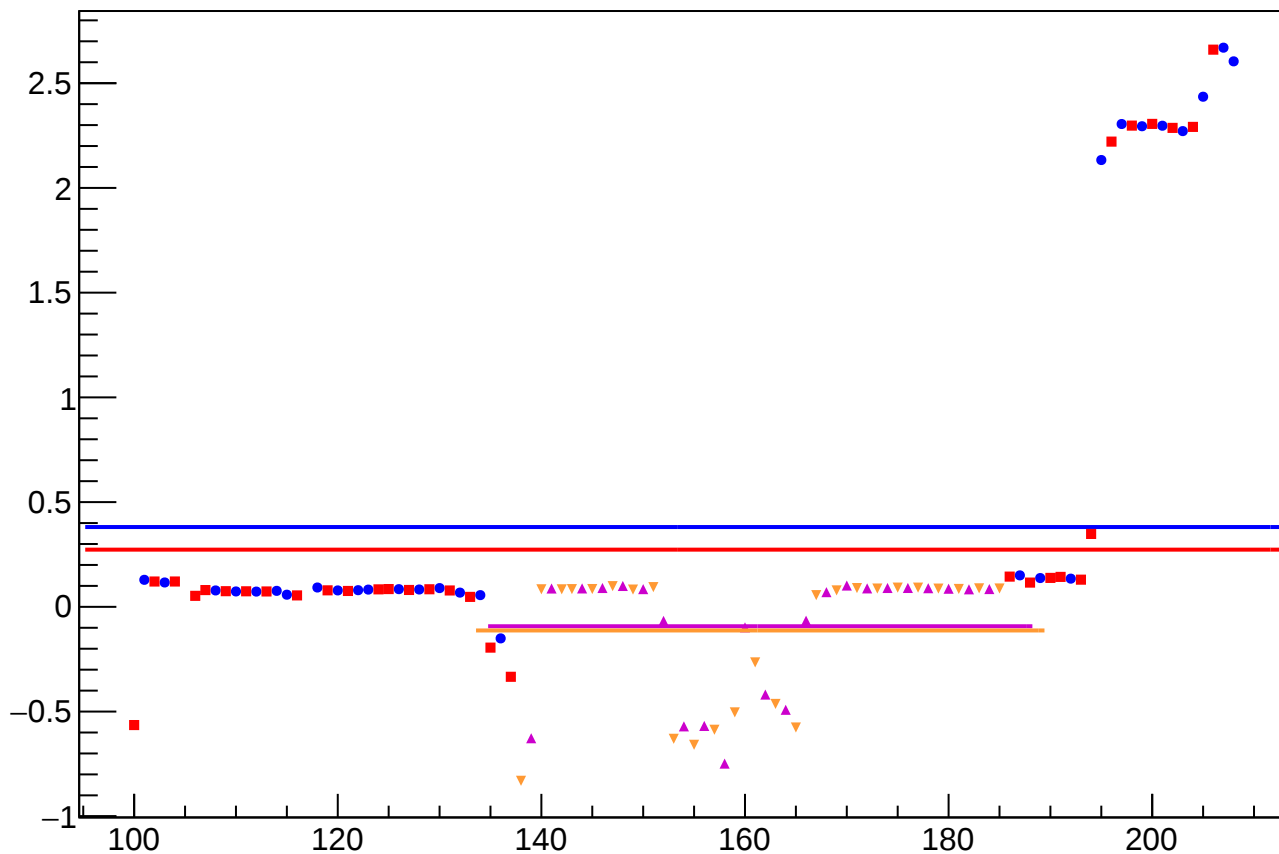
Right: 0.003+/-0.000 χ^2/NDF : 724634.2/58

In: 0.002+/-0.000 χ^2/NDF :1485383.0/50

Out: 0.002+/-0.000 χ^2/NDF :1468988.6/55

All: 0.002+/-0.000 χ^2/NDF : 2954671.5/106

yield_bpm0l08X_mean vs Slug, Sign Corrected



Right In: 0.381+/-0.000

χ^2/NDF : 54856991333.1/27

Left: -0.103+/-0.000

χ^2/NDF : 24747894543.0/47

Left Out: -0.113+/-0.000

χ^2/NDF : 13667354077.1/24

Right: 0.323+/-0.000

χ^2/NDF : 99595894201.5/58

Right Out: 0.273+/-0.000

χ^2/NDF : 44204470779.7/30

In: 0.087+/-0.000

χ^2/NDF : 77739655608.8/50

Out: 0.044+/-0.000

χ^2/NDF : 66655588270.9/55

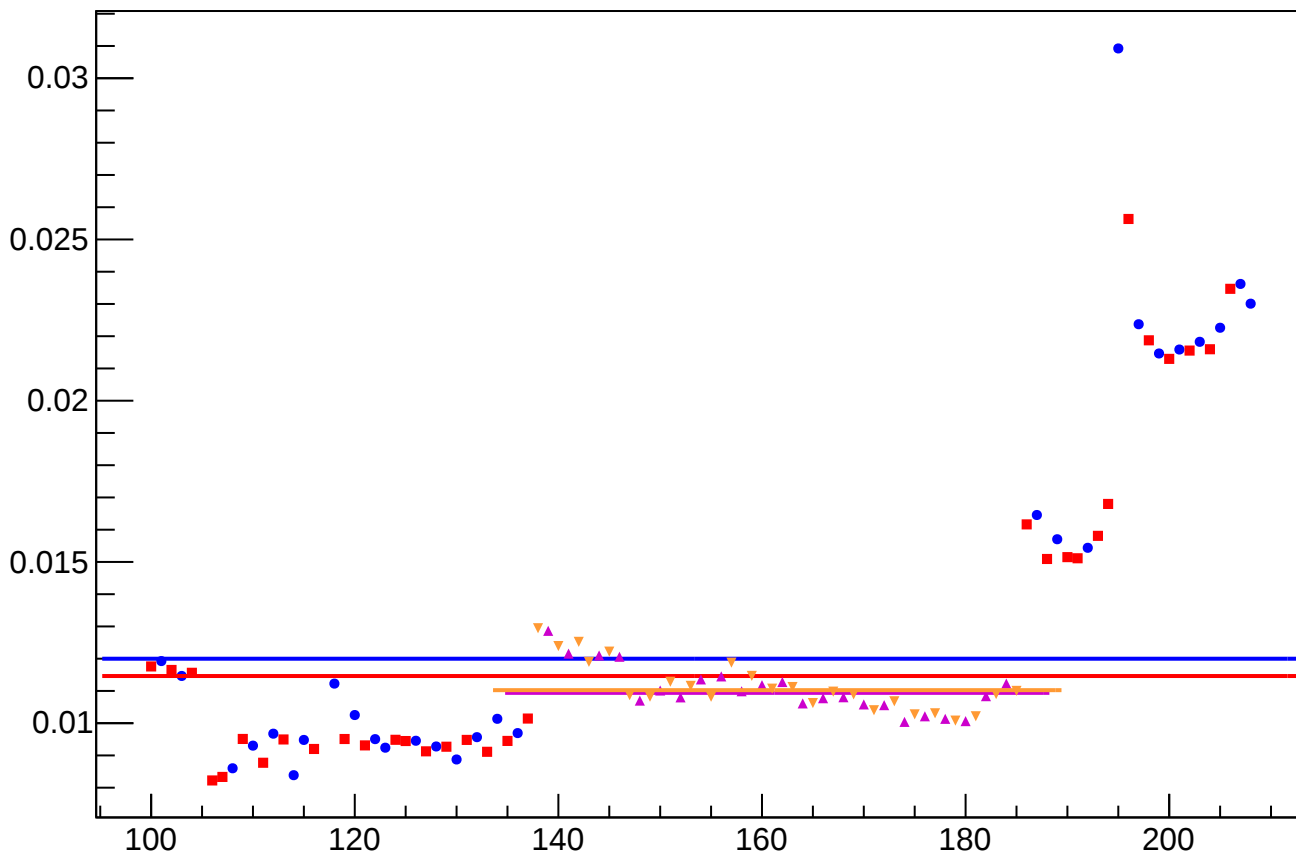
Left In: -0.093+/-0.000

χ^2/NDF : 11051944893.7/22

All: 0.065+/-0.000

χ^2/NDF : 144610789745.2

yield_bpm0l08X_rms vs Slug, Sign Corrected



Right In: 0.012+/-0.000 χ^2/NDF : 3852924.6/27

Left Out: 0.011+/-0.000 χ^2/NDF :141501.7/24

Right Out: 0.011+/-0.000 χ^2/NDF : 3450502.6/30

Left In: 0.011+/-0.000 χ^2/NDF :128914.2/22

Left: 0.011+/-0.000 χ^2/NDF : 271400.1/47

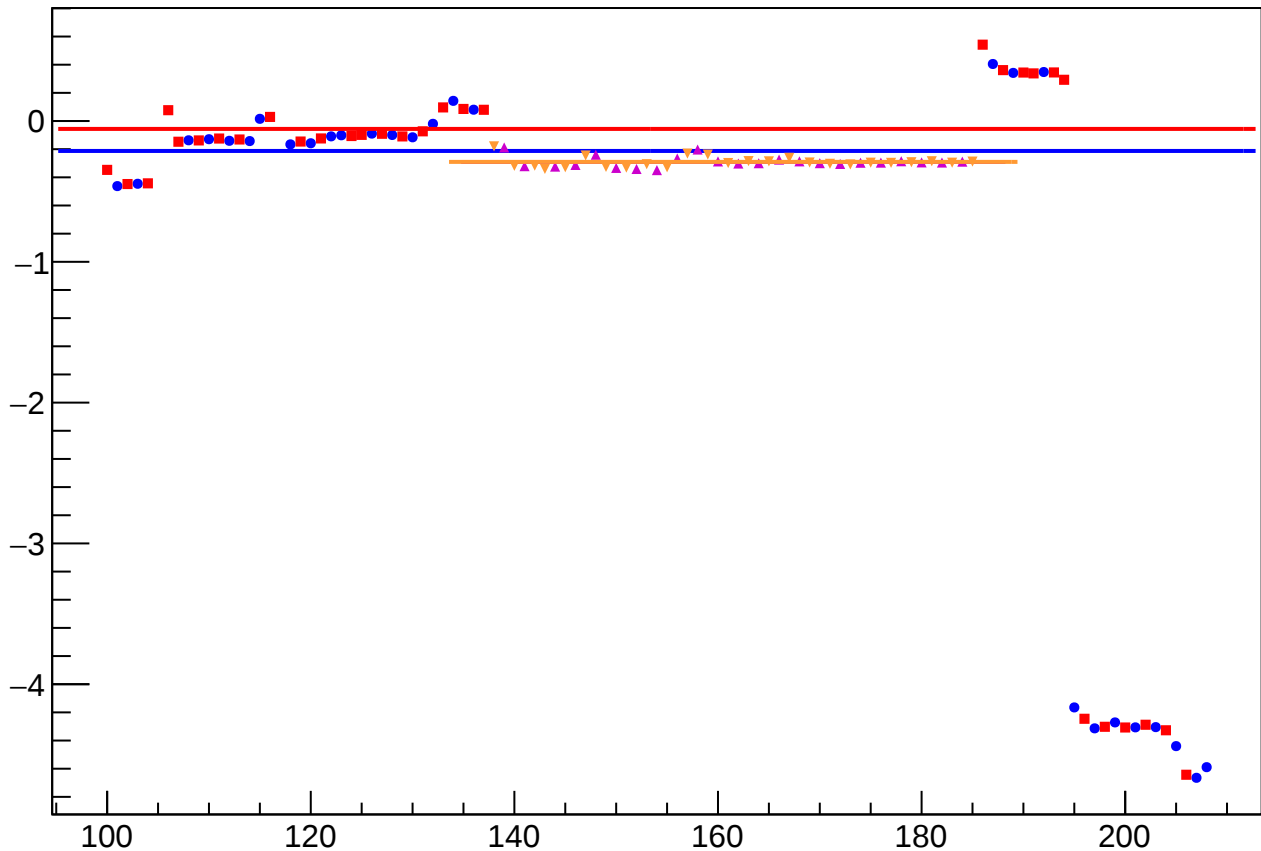
Right: 0.012+/-0.000 χ^2/NDF : 7329851.4/58

In: 0.011+/-0.000 χ^2/NDF :4099992.3/50

Out: 0.011+/-0.000 χ^2/NDF :3614694.3/55

All: 0.011+/-0.000 χ^2/NDF : 7719291.3/106

yield_bpm0l08Y_mean vs Slug, Sign Corrected



Right In: -0.213+/-0.000 χ^2/NDF : 338172374161.0/27

Left Out: -0.290+/-0.000 χ^2/NDF : 2877519093.0/24

Right Out: -0.056+/-0.000 χ^2/NDF : 293243949339.9/30

Left In: -0.291+/-0.000 χ^2/NDF : 3125402243.3/22

Left: -0.291+/-0.000 χ^2/NDF : 6003615293.4/47

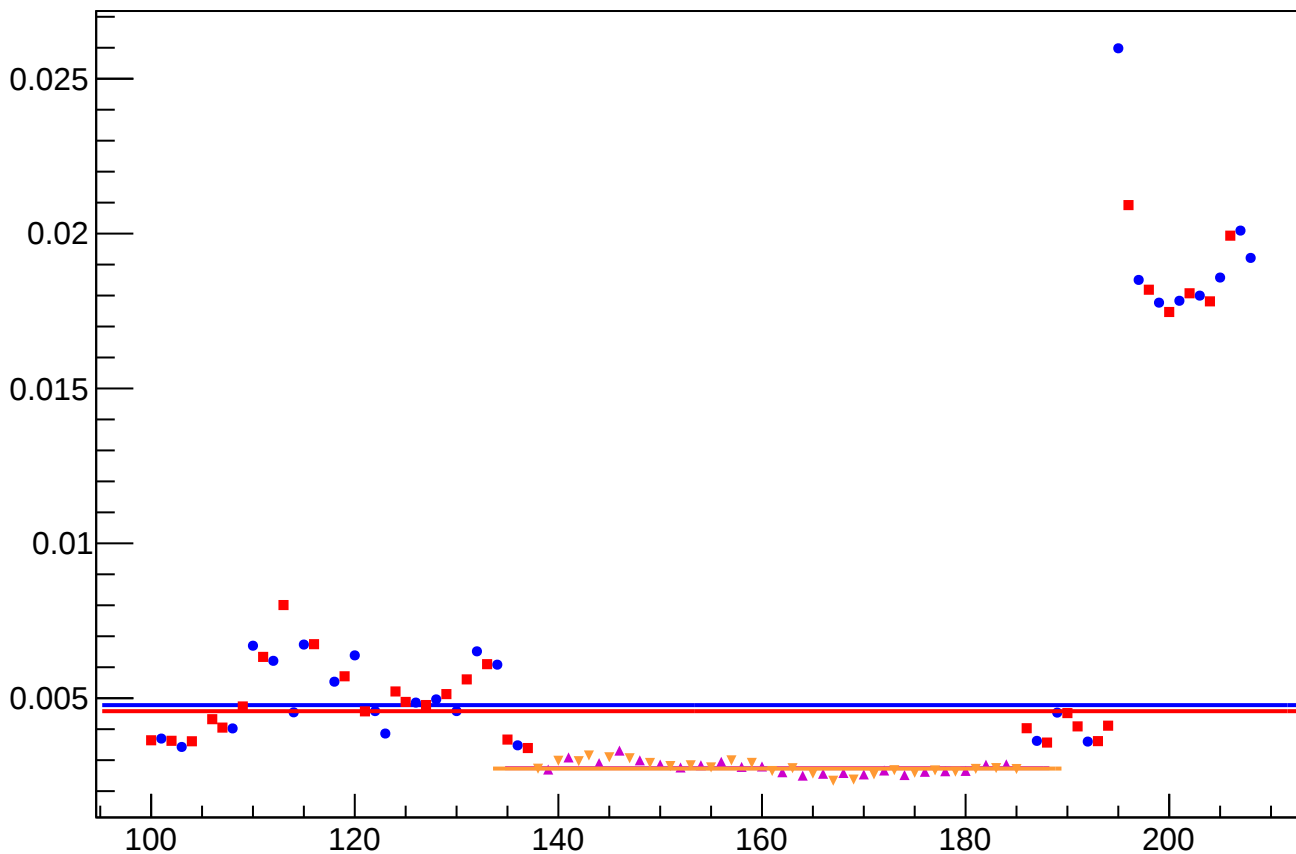
Right: -0.126+/-0.000 χ^2/NDF : 637217623981.7/58

In: -0.278+/-0.000 χ^2/NDF : 343501896925.9/50

Out: -0.247+/-0.000 χ^2/NDF : 319865630660.6/55

All: -0.262+/-0.000 χ^2/NDF : 664685906178.8

yield_bpm0l08Y_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 7979409.5/27

Left Out: 0.003+/-0.000 χ^2/NDF :206527.1/24

Right Out: 0.005+/-0.000 χ^2/NDF : 6106123.6/30

Left In: 0.003+/-0.000 χ^2/NDF :147778.8/22

Left: 0.003+/-0.000 χ^2/NDF : 354733.7/47

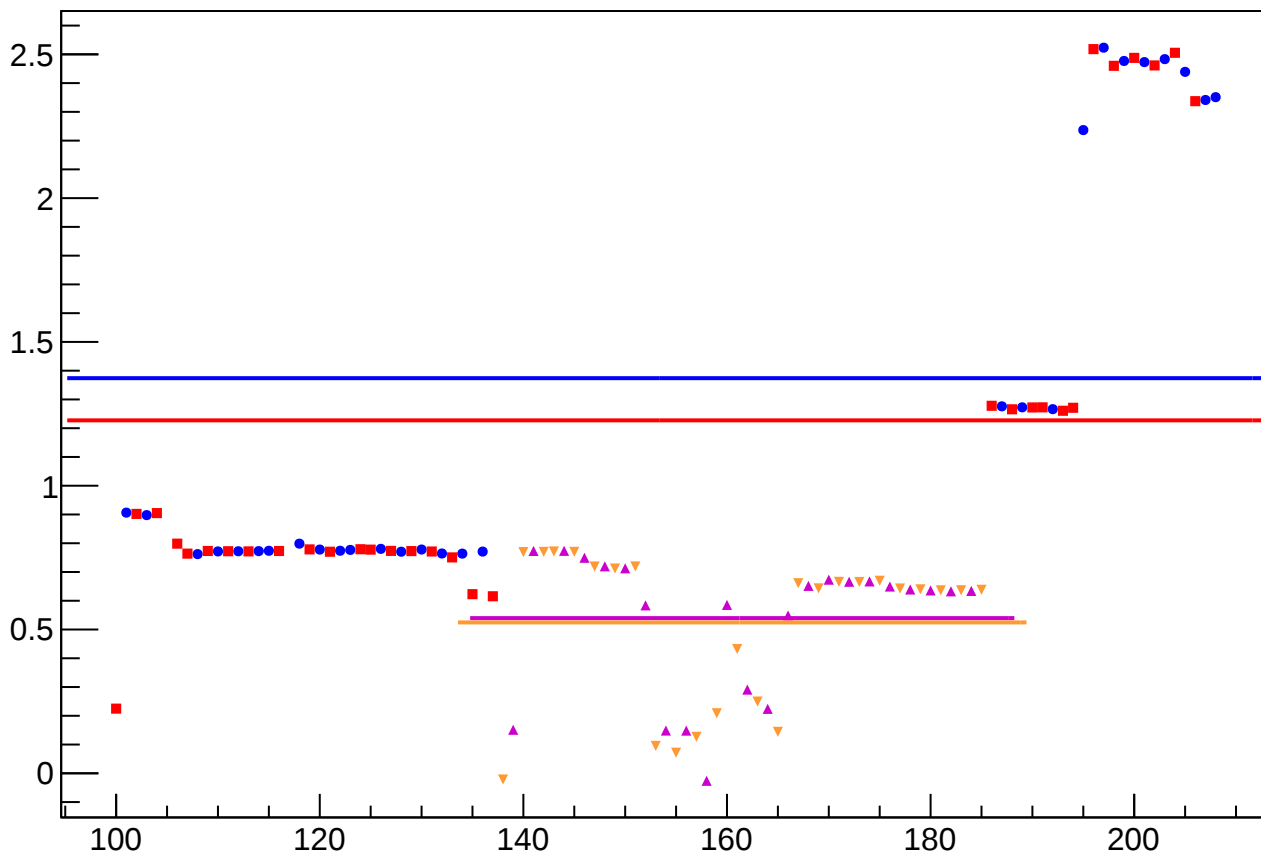
Right: 0.005+/-0.000 χ^2/NDF : 14103616.1/58

In: 0.003+/-0.000 χ^2/NDF :11092192.7/50

Out: 0.003+/-0.000 χ^2/NDF :9284411.5/55

All: 0.003+/-0.000 χ^2/NDF : 20376679.8/106

yield_bpm0l09X_mean vs Slug, Sign Corrected



Right In: 1.374+/-0.000

χ^2/NDF : 52556812319.5/27

Left: 0.532+/-0.000

χ^2/NDF : 17500739852.2/47

Left Out: 0.525+/-0.000

χ^2/NDF : 9623503169.9/24

Right: 1.297+/-0.000

χ^2/NDF : 101262030081.7/58

Right Out: 1.227+/-0.000

χ^2/NDF : 47683675613.4/30

In: 0.859+/-0.000

χ^2/NDF : 99283124801.0/50

Out: 0.803+/-0.000

χ^2/NDF : 87115238335.4/55

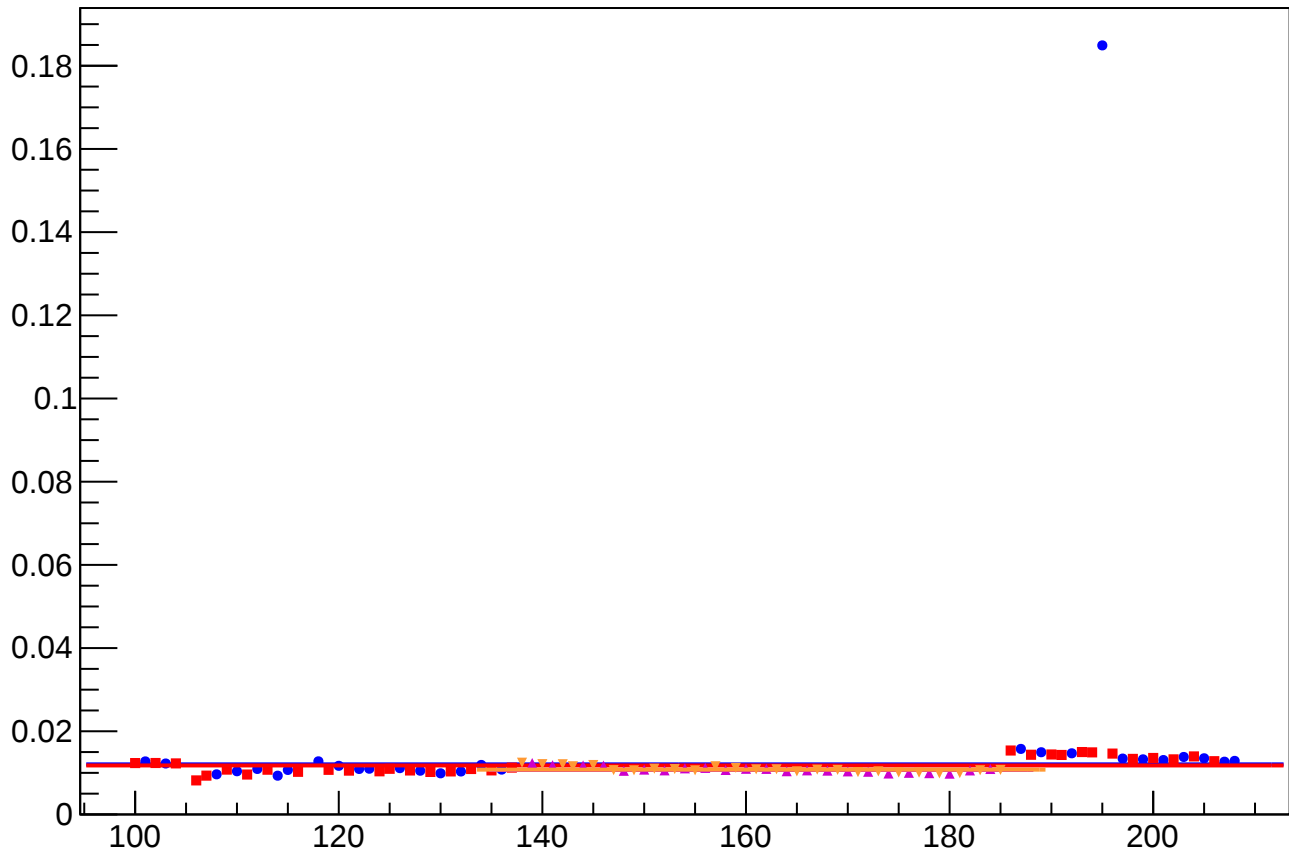
Left In: 0.540+/-0.000

χ^2/NDF : 7860539135.5/22

All: 0.830+/-0.000

χ^2/NDF : 186780345367.1

yield_bpm0l09X_rms vs Slug, Sign Corrected



Right In: 0.012+/-0.000 χ^2/NDF : 1895180.6/27

Left Out: 0.011+/-0.000 χ^2/NDF :131630.9/24

Right Out: 0.012+/-0.000 χ^2/NDF : 720714.7/30

Left In: 0.011+/-0.000 χ^2/NDF :119273.2/22

Left: 0.011+/-0.000 χ^2/NDF : 251802.6/47

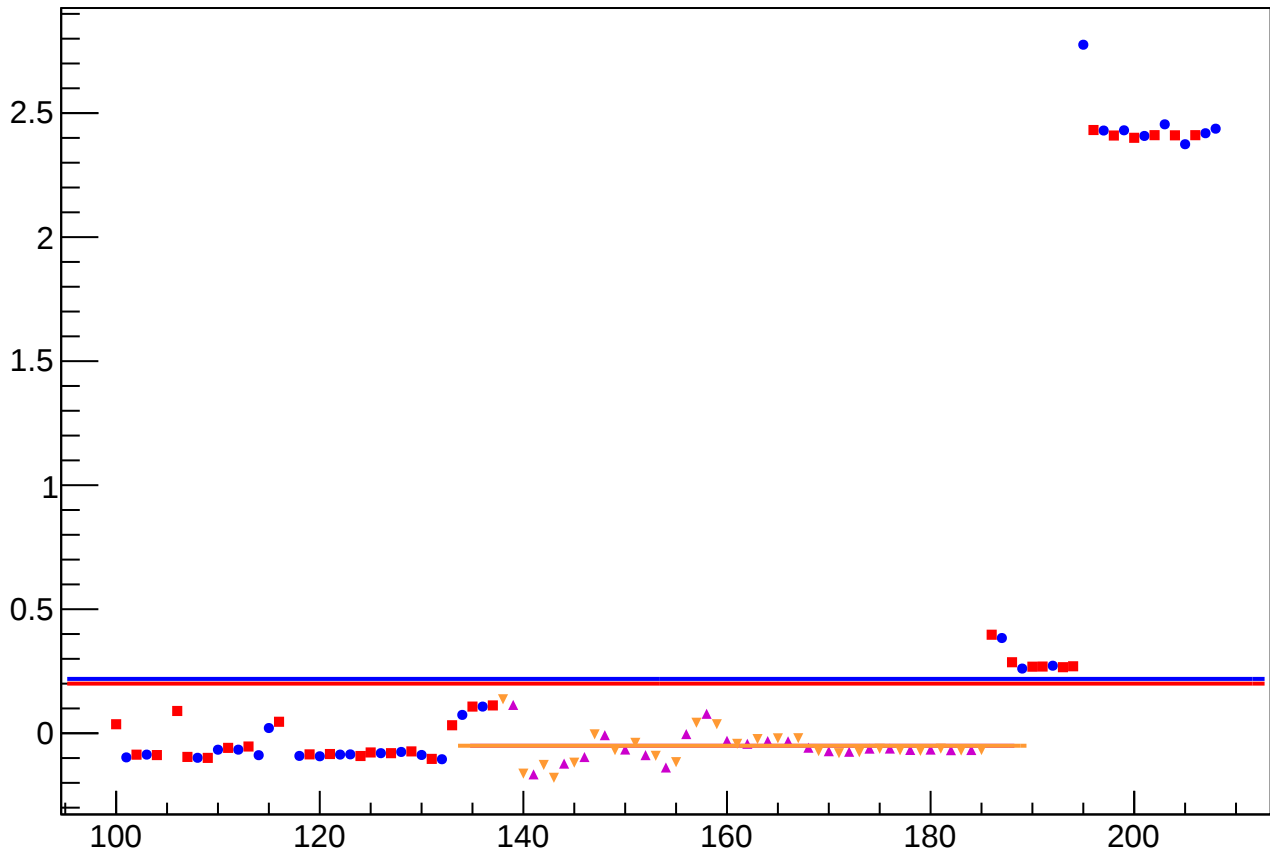
Right: 0.012+/-0.000 χ^2/NDF : 2622451.4/58

In: 0.011+/-0.000 χ^2/NDF :2218370.8/50

Out: 0.011+/-0.000 χ^2/NDF :975774.1/55

All: 0.011+/-0.000 χ^2/NDF : 3194517.1/106

yield_bpm0l09Y_mean vs Slug, Sign Corrected



Right In: 0.219+/-0.000

χ^2/NDF : 177790903331.3/27

Left: -0.050+/-0.000

χ^2/NDF : 13400329490.2/47

Left Out: -0.050+/-0.000

χ^2/NDF : 7271496478.6/24

Right: 0.209+/-0.000

χ^2/NDF : 315330843457.7/58

Right Out: 0.200+/-0.000

χ^2/NDF : 137461815590.4/30

In: -0.000+/-0.000

χ^2/NDF : 207978347037.5/50

Out: -0.002+/-0.000

χ^2/NDF : 168249966858.9/55

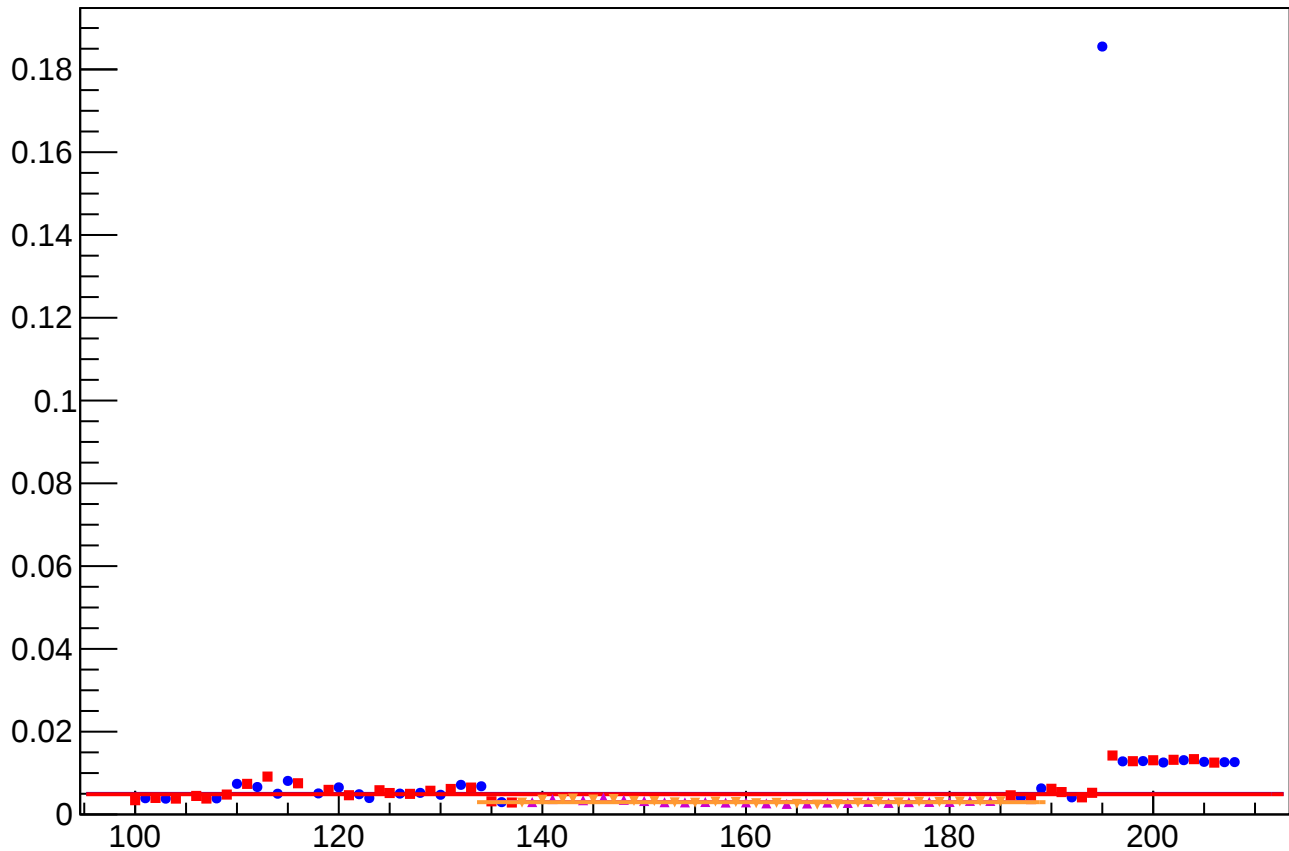
Left In: -0.051+/-0.000

χ^2/NDF : 6128769990.8/22

All: -0.001+/-0.000

χ^2/NDF : 376230752652.3

yield_bpm0l09Y_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 6841743.6/27

Left Out: 0.003+/-0.000 χ^2/NDF :499039.1/24

Right Out: 0.005+/-0.000 χ^2/NDF : 4559312.5/30

Left In: 0.003+/-0.000 χ^2/NDF :329068.1/22

Left: 0.003+/-0.000 χ^2/NDF : 831077.6/47

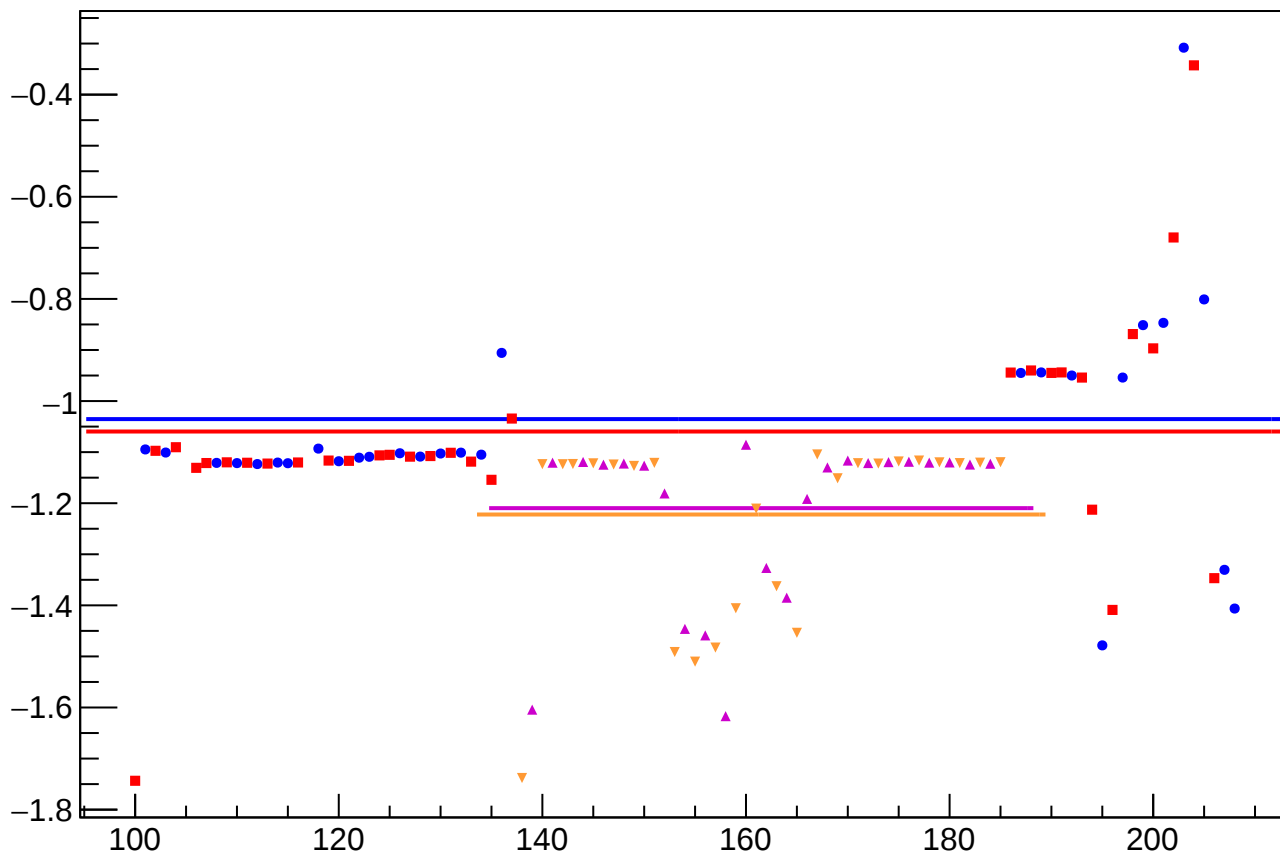
Right: 0.005+/-0.000 χ^2/NDF : 11403376.3/58

In: 0.003+/-0.000 χ^2/NDF :9699093.6/50

Out: 0.003+/-0.000 χ^2/NDF :7827672.2/55

All: 0.003+/-0.000 χ^2/NDF : 17529099.1/106

yield_bpm0l10X_mean vs Slug, Sign Corrected



Right In: -1.035+/-0.000 χ^2/NDF : 4945716891.4/27

Left Out: -1.222+/-0.000 χ^2/NDF : 5279548861.3/24

Right Out: -1.060+/-0.000 χ^2/NDF : 4094157306.8/30

Left In: -1.210+/-0.000 χ^2/NDF : 4502367902.8/22

Left: -1.216+/-0.000 χ^2/NDF : 9796254294.5/47

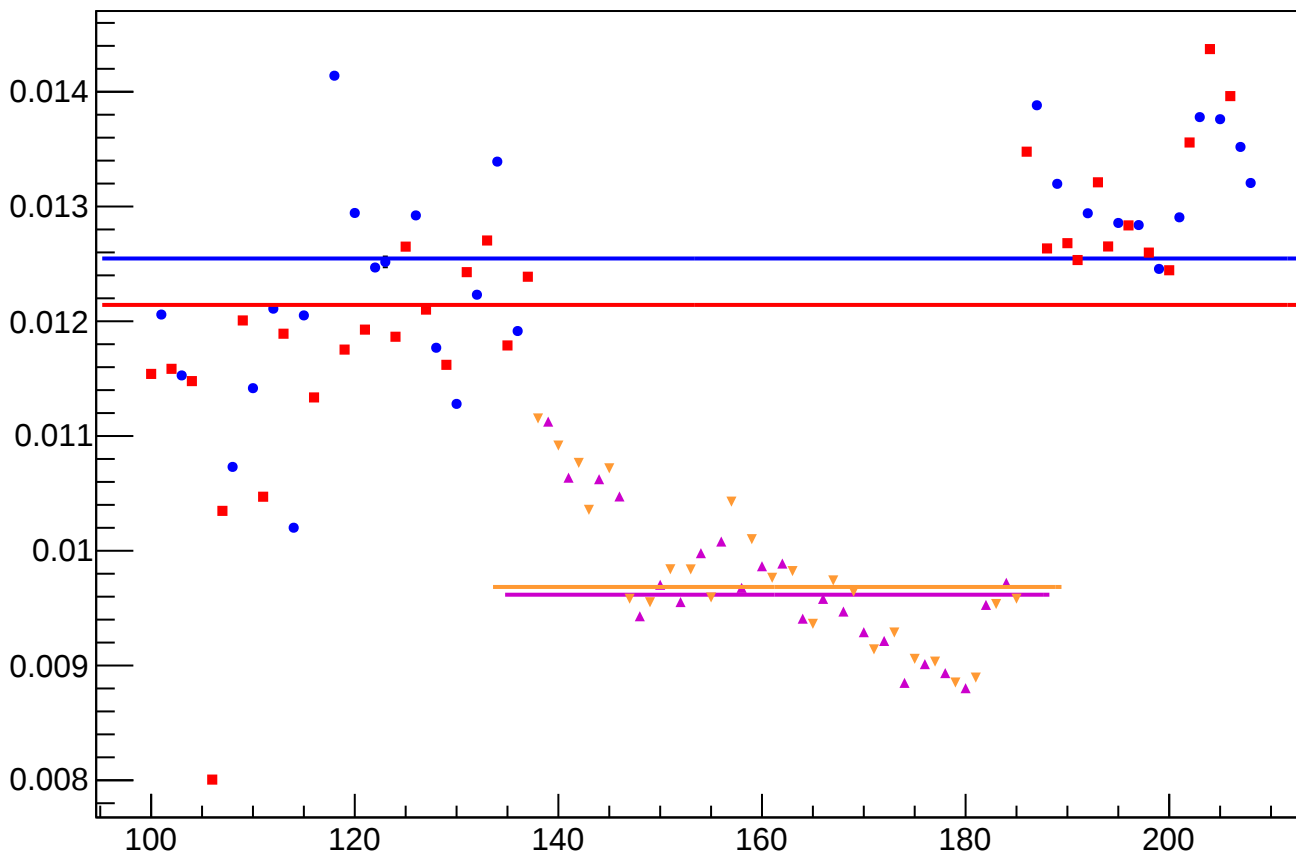
Right: -1.048+/-0.000 χ^2/NDF : 9067503649.9/58

In: -1.152+/-0.000 χ^2/NDF : 11258434988.4/50

Out: -1.166+/-0.000 χ^2/NDF : 11089232365.5/55

All: -1.160+/-0.000 χ^2/NDF : 22374938289.3/102

yield_bpm0l10X_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 132283.8/27

Left Out: 0.010+/-0.000 χ^2/NDF :134863.6/24

Right Out: 0.012+/-0.000 χ^2/NDF : 319826.7/30

Left In: 0.010+/-0.000 χ^2/NDF :119823.1/22

Left: 0.010+/-0.000 χ^2/NDF : 255532.7/47

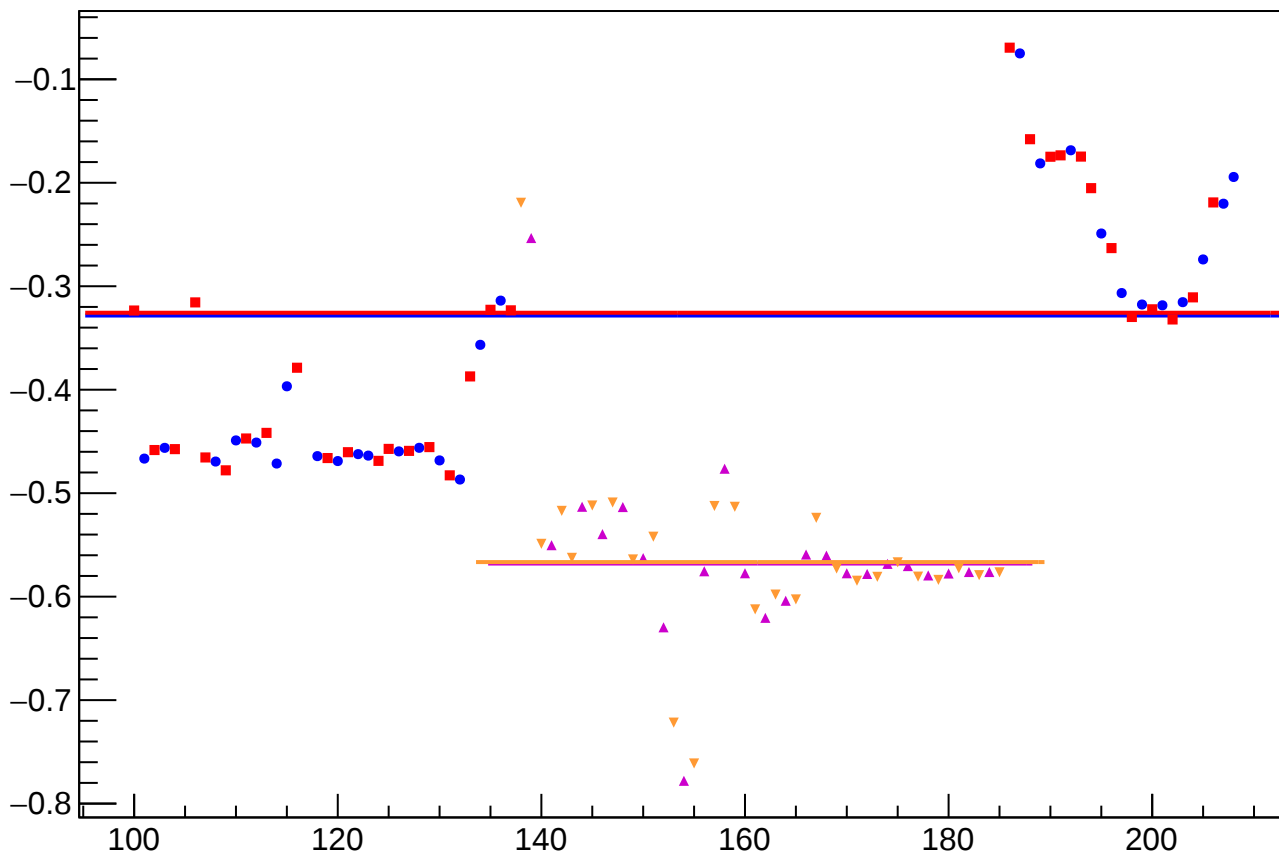
Right: 0.012+/-0.000 χ^2/NDF : 467416.2/58

In: 0.011+/-0.000 χ^2/NDF :1274583.2/50

Out: 0.011+/-0.000 χ^2/NDF :1239746.3/55

All: 0.011+/-0.000 χ^2/NDF : 2515081.1/106

yield_bpm0l10Y_mean vs Slug, Sign Corrected



Right In: -0.328+/-0.000

χ^2/NDF : 9962241779.4/27

Left: -0.567+/-0.000

χ^2/NDF : 23829000396.4/47

Left Out: -0.567+/-0.000

χ^2/NDF : 13368458519.3/24

Right: -0.327+/-0.000

χ^2/NDF : 21224600199.1/58

Right Out: -0.326+/-0.000

χ^2/NDF : 11258824622.0/30

In: -0.471+/-0.000

χ^2/NDF : 54705198590.5/50

Out: -0.476+/-0.000

χ^2/NDF : 59412991831.6/55

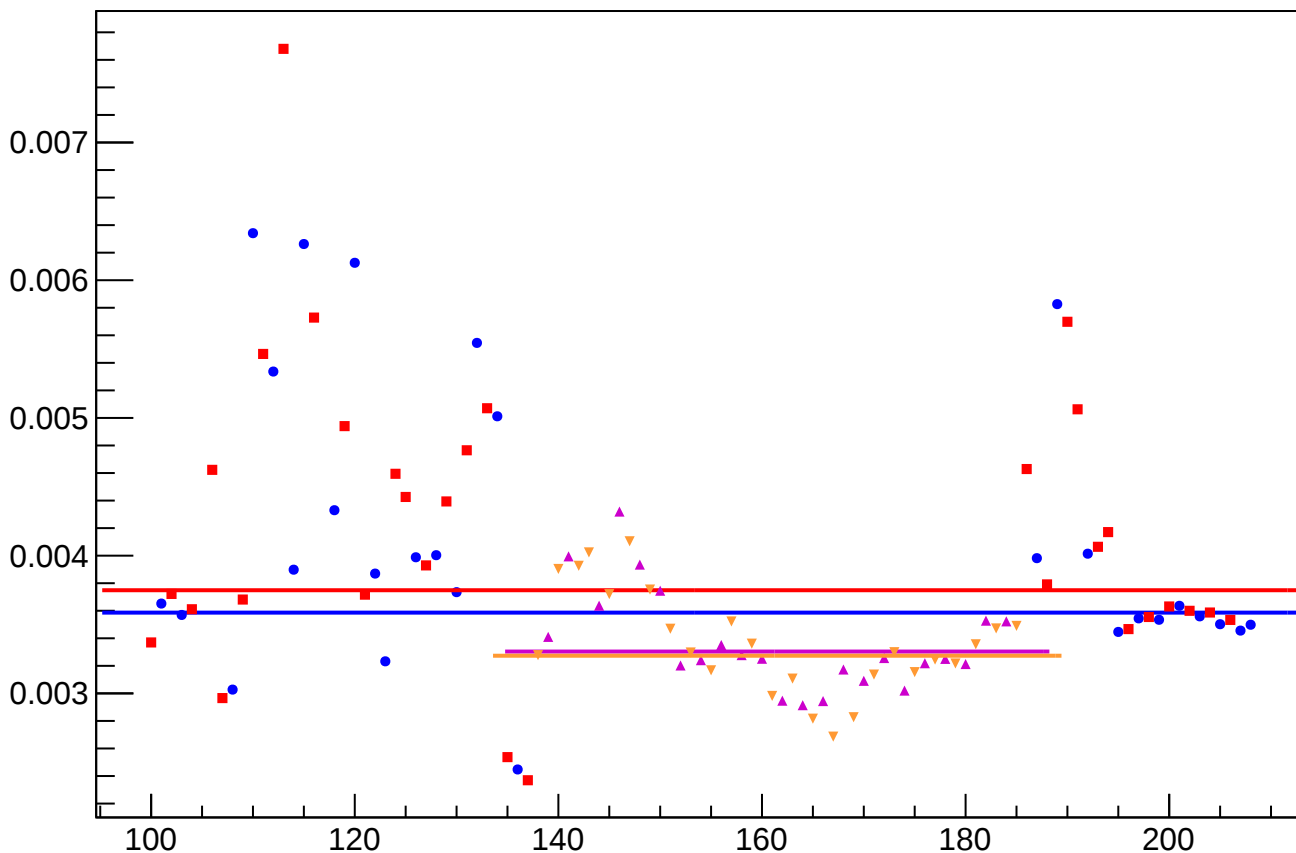
Left In: -0.568+/-0.000

χ^2/NDF : 10458990019.9/22

All: -0.474+/-0.000

χ^2/NDF : 114152058013.2

yield_bpm0l10Y_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 997939.1/27

Left Out: 0.003+/-0.000 χ^2/NDF : 394865.4/24

Right Out: 0.004+/-0.000 χ^2/NDF : 1071370.3/30

Left In: 0.003+/-0.000 χ^2/NDF : 286064.1/22

Left: 0.003+/-0.000 χ^2/NDF : 682340.4/47

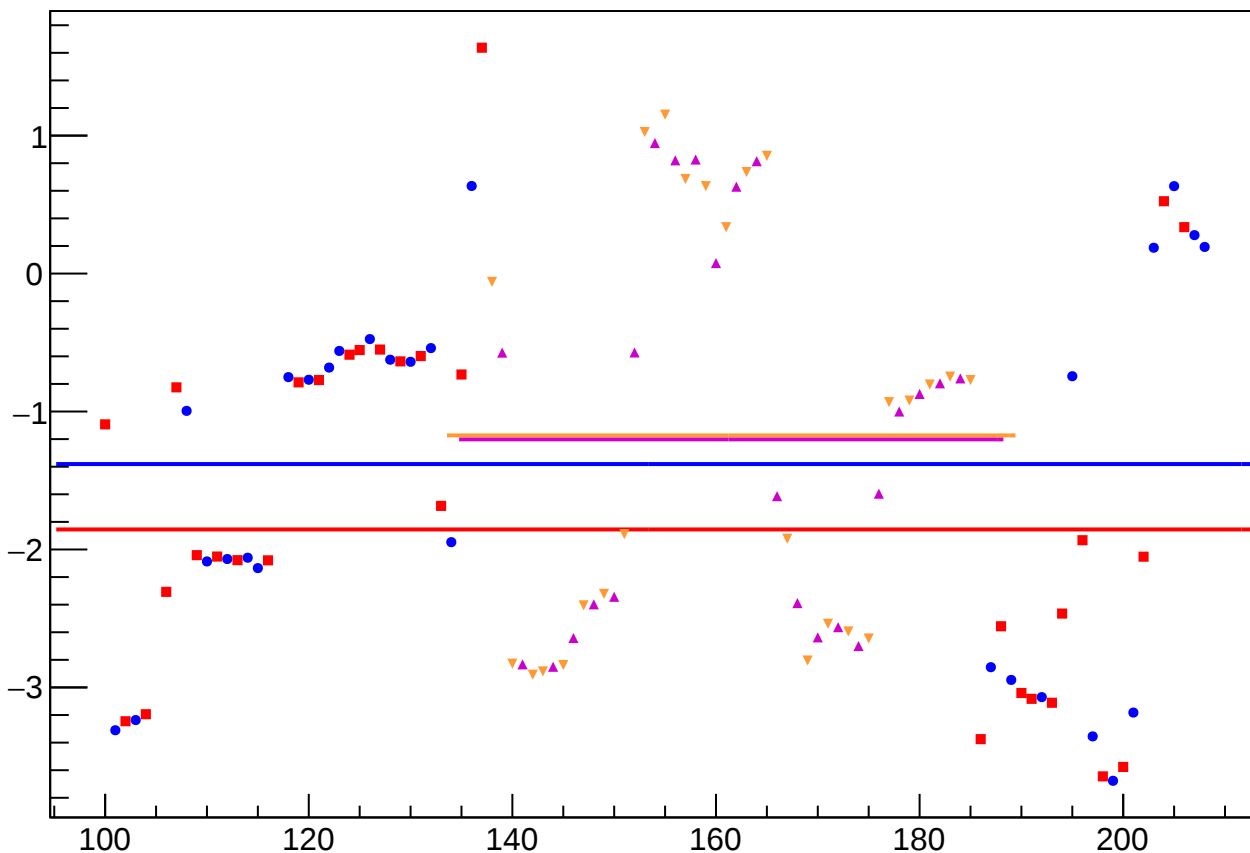
Right: 0.004+/-0.000 χ^2/NDF : 2095158.8/58

In: 0.003+/-0.000 χ^2/NDF : 1379371.2/50

Out: 0.003+/-0.000 χ^2/NDF : 1737174.3/55

All: 0.003+/-0.000 χ^2/NDF : 3119370.2/106

yield_bpm0r03X_mean vs Slug, Sign Corrected



Right In: -1.381+/-0.000

χ^2/NDF : 5776956239.3/27

Left: -1.187+/-0.000

χ^2/NDF : 12490828303.3/47

Left Out: -1.173+/-0.000

χ^2/NDF : 6882684653.2/24

Right: -1.622+/-0.000

χ^2/NDF : 10708272119.6/58

Right Out: -1.855+/-0.000

χ^2/NDF : 4636093338.0/30

In: -1.282+/-0.000

χ^2/NDF : 11429451319.9/50

Out: -1.471+/-0.000

χ^2/NDF : 12220580904.6/55

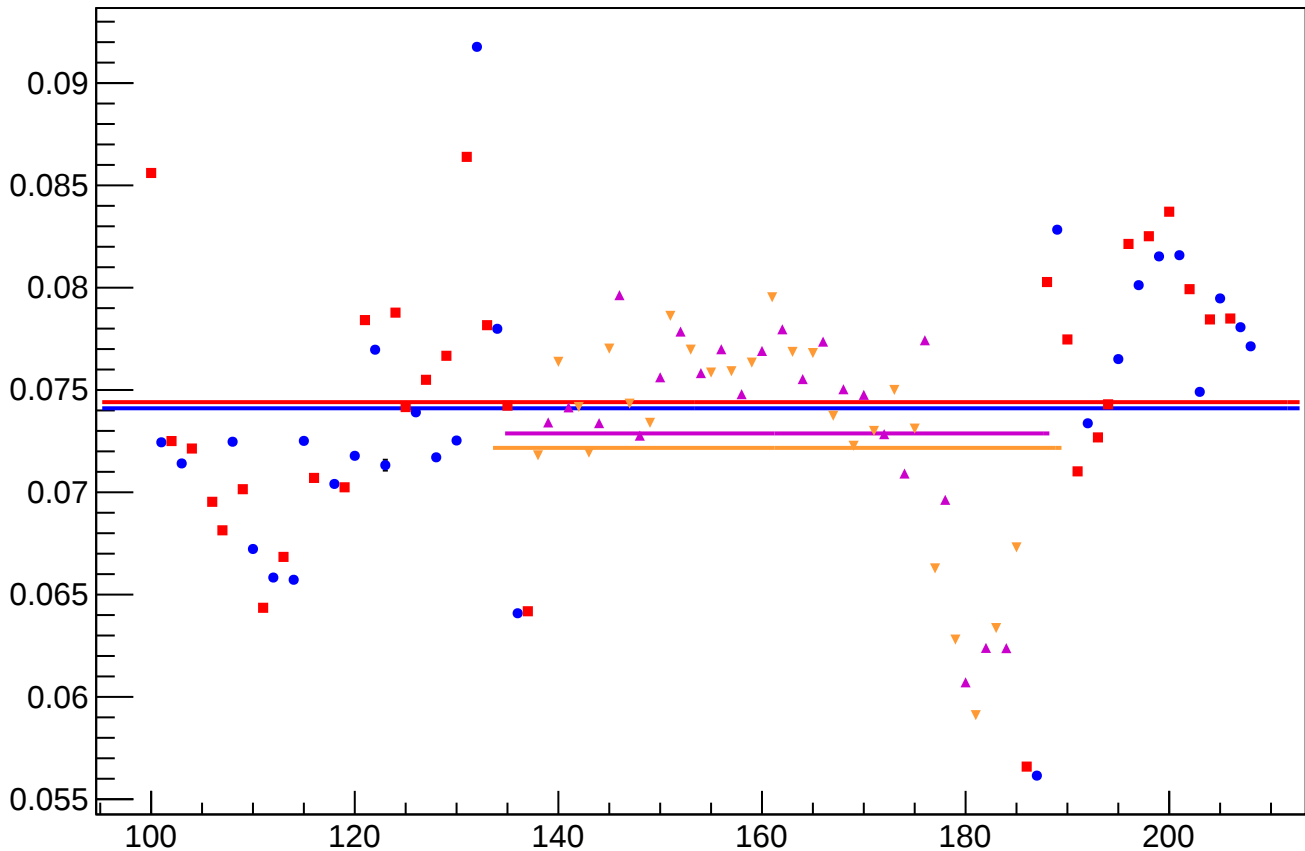
Left In: -1.202+/-0.000

χ^2/NDF : 5606782515.9/22

All: -1.379+/-0.000

χ^2/NDF : 23756166015.3/100

yield_bpm0r03X_rms vs Slug, Sign Corrected



Right In: 0.074 $\pm$ 0.000 χ^2 /NDF: 191908.6/27

Left Out: 0.072 $\pm$ 0.000 χ^2 /NDF:222263.8/24

Right Out: 0.074 $\pm$ 0.000 χ^2 /NDF: 231533.6/30

Left In: 0.073 $\pm$ 0.000 χ^2 /NDF:183503.0/22

Left: 0.073 $\pm$ 0.000 χ^2 /NDF: 407423.5/47

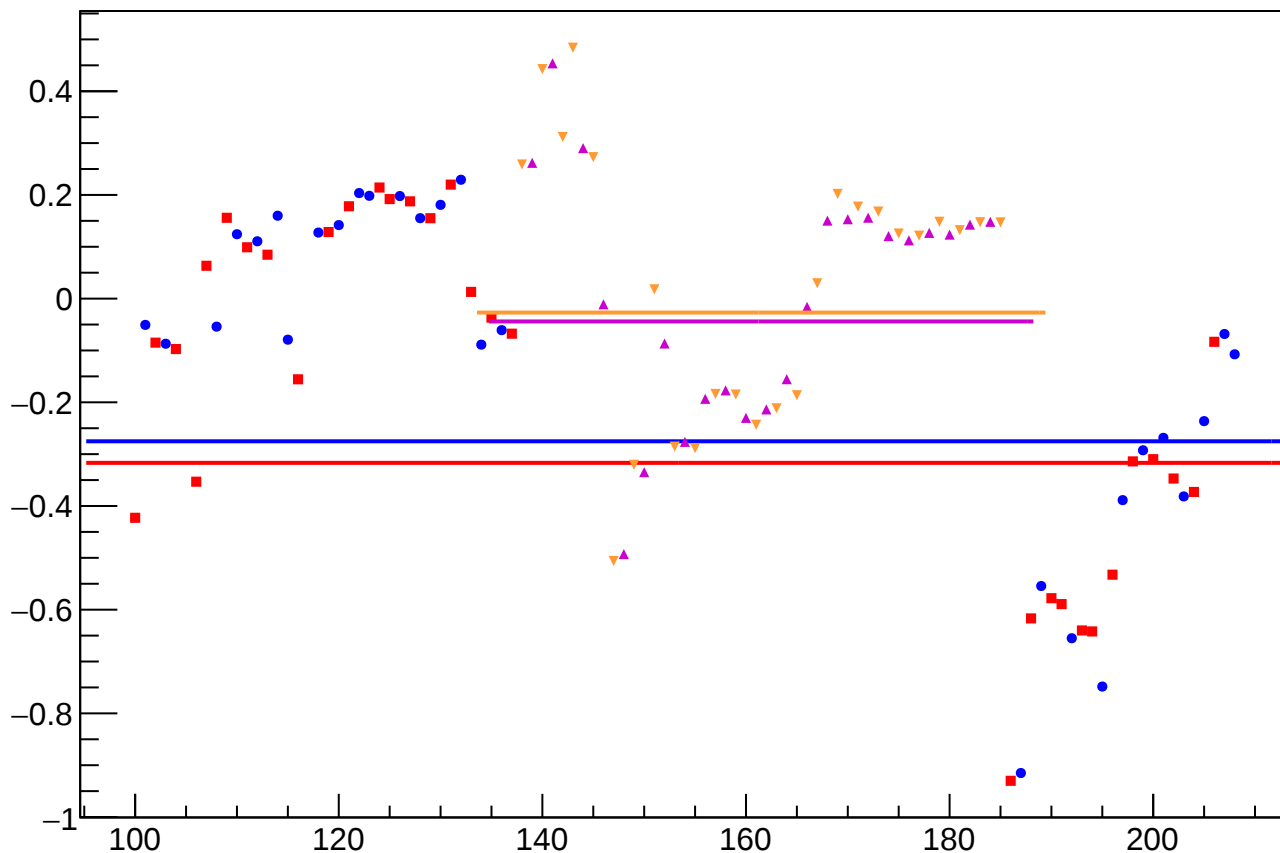
Right: 0.074 $\pm$ 0.000 χ^2 /NDF: 423679.9/58

In: 0.073 $\pm$ 0.000 χ^2 /NDF:379715.8/50

Out: 0.073 $\pm$ 0.000 χ^2 /NDF:468891.8/55

All: 0.073 $\pm$ 0.000 χ^2 /NDF: 849072.3/106

yield_bpm0r03Y_mean vs Slug, Sign Corrected



Right In: -0.275 ± 0.000 $\chi^2/\text{NDF}: 13770949046.0/27$

Left Out: -0.027 ± 0.000 $\chi^2/\text{NDF}: 20376761328.6/24$

Right Out: -0.317 ± 0.000 $\chi^2/\text{NDF}: 12221142271.7/30$

Left In: -0.044 ± 0.000 $\chi^2/\text{NDF}: 15718556282.1/22$

Left: -0.035 ± 0.000 $\chi^2/\text{NDF}: 36148383394.4/47$

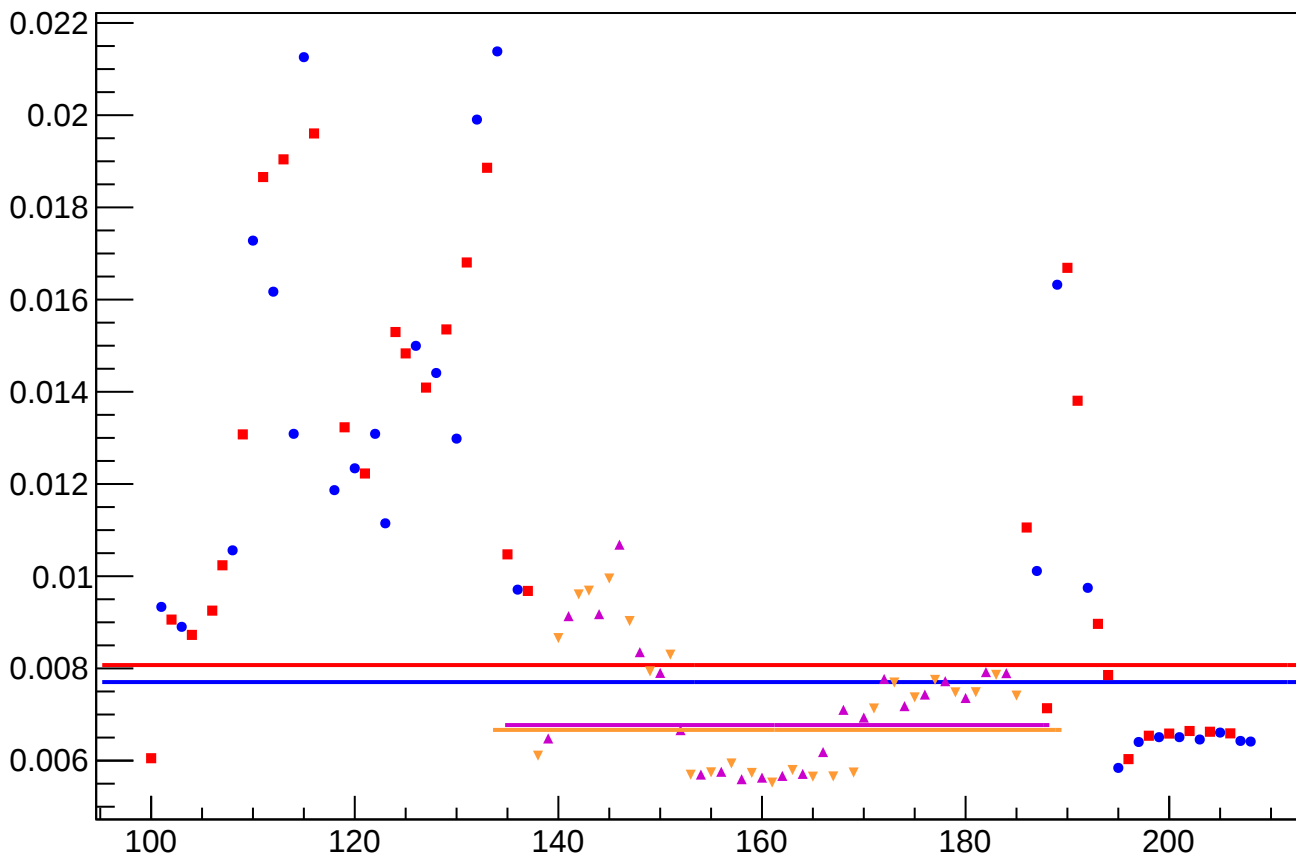
Right: -0.295 ± 0.000 $\chi^2/\text{NDF}: 26163547645.9/58$

In: -0.131 ± 0.000 $\chi^2/\text{NDF}: 36390458662.2/50$

Out: -0.124 ± 0.000 $\chi^2/\text{NDF}: 43252702033.5/55$

All: -0.127 ± 0.000 $\chi^2/\text{NDF}: 79654690006.6/106$

yield_bpm0r03Y_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 2786650.9/27

Left Out: 0.007+/-0.000 χ^2/NDF :1143768.6/24

Right Out: 0.008+/-0.000 χ^2/NDF : 2949064.6/30

Left In: 0.007+/-0.000 χ^2/NDF :934050.3/22

Left: 0.007+/-0.000 χ^2/NDF : 2081836.1/47

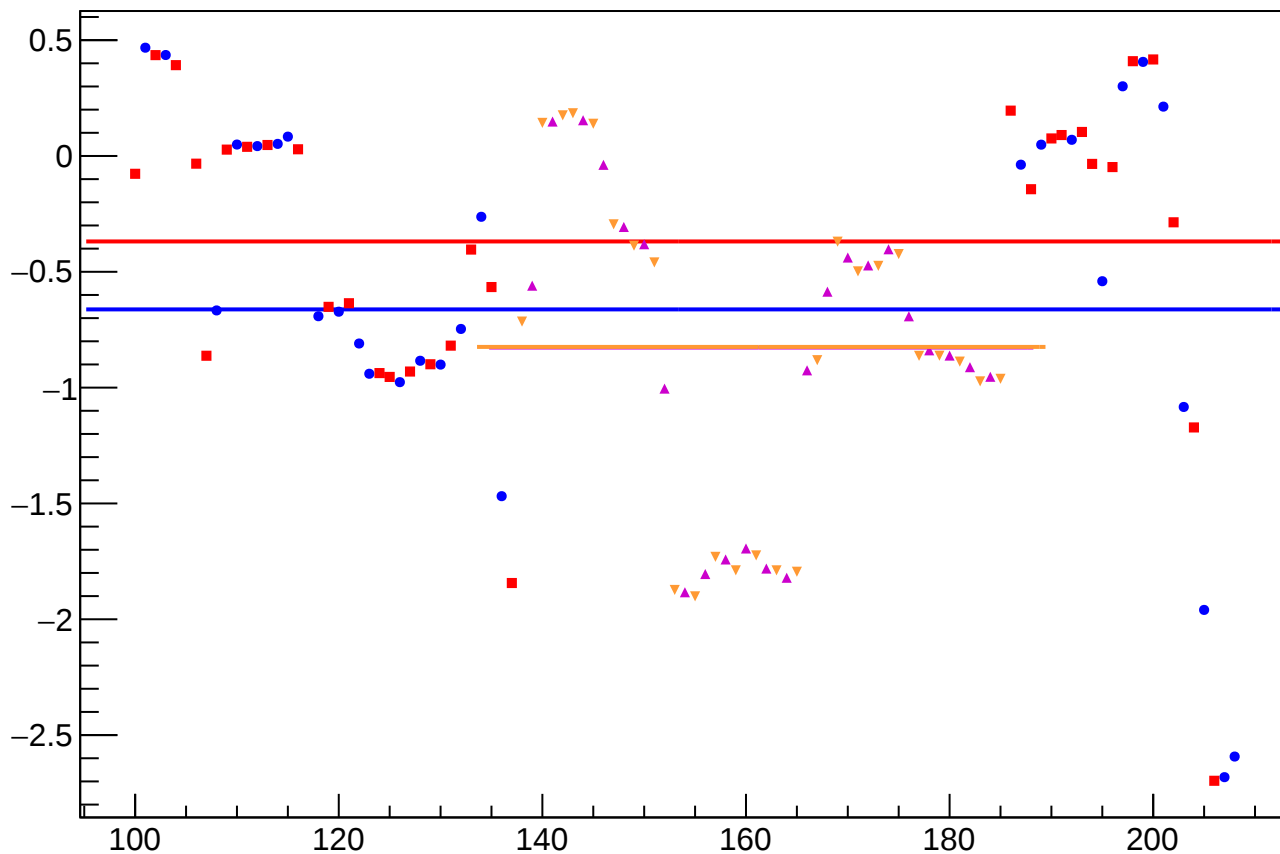
Right: 0.008+/-0.000 χ^2/NDF : 5762712.9/58

In: 0.007+/-0.000 χ^2/NDF :3945146.5/50

Out: 0.007+/-0.000 χ^2/NDF :4594578.1/55

All: 0.007+/-0.000 χ^2/NDF : 8539895.9/106

yield_bpm0r05X_mean vs Slug, Sign Corrected



Right In: -0.662 $\pm$ 0.000 χ^2/NDF : 1460755922.2/27

Left Out: -0.824 $\pm$ 0.000 χ^2/NDF : 1103610806.5/24

Right Out: -0.369 $\pm$ 0.000 χ^2/NDF : 1061262447.5/30

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

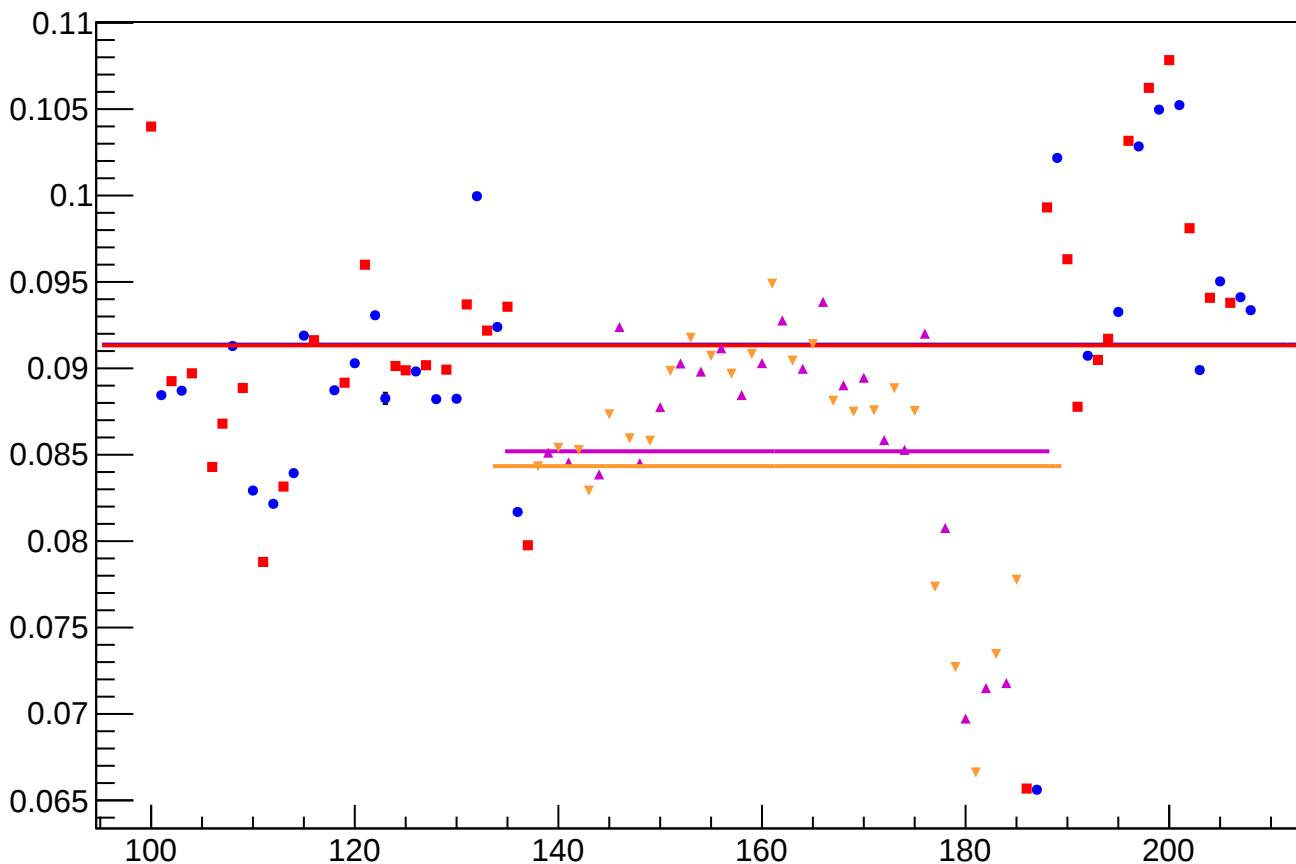
Right: -0.512 $\pm$ 0.000 χ^2/NDF : 2597418079.2/58

In: -0.758 $\pm$ 0.000 χ^2/NDF : 2409295274.6/50

Out: -0.636 $\pm$ 0.000 χ^2/NDF : 2383323228.8/55

All: -0.695 $\pm$ 0.000 χ^2/NDF : 4823532785.4/1

yield_bpm0r05X_rms vs Slug, Sign Corrected



Right In: 0.091+/-0.000 χ^2/NDF : 191261.7/27

Left Out: 0.084+/-0.000 χ^2/NDF : 288312.6/24

Right Out: 0.091+/-0.000 χ^2/NDF : 281544.4/30

Left In: 0.085+/-0.000 χ^2/NDF : 238313.9/22

Left: 0.085+/-0.000 χ^2/NDF : 528427.1/47

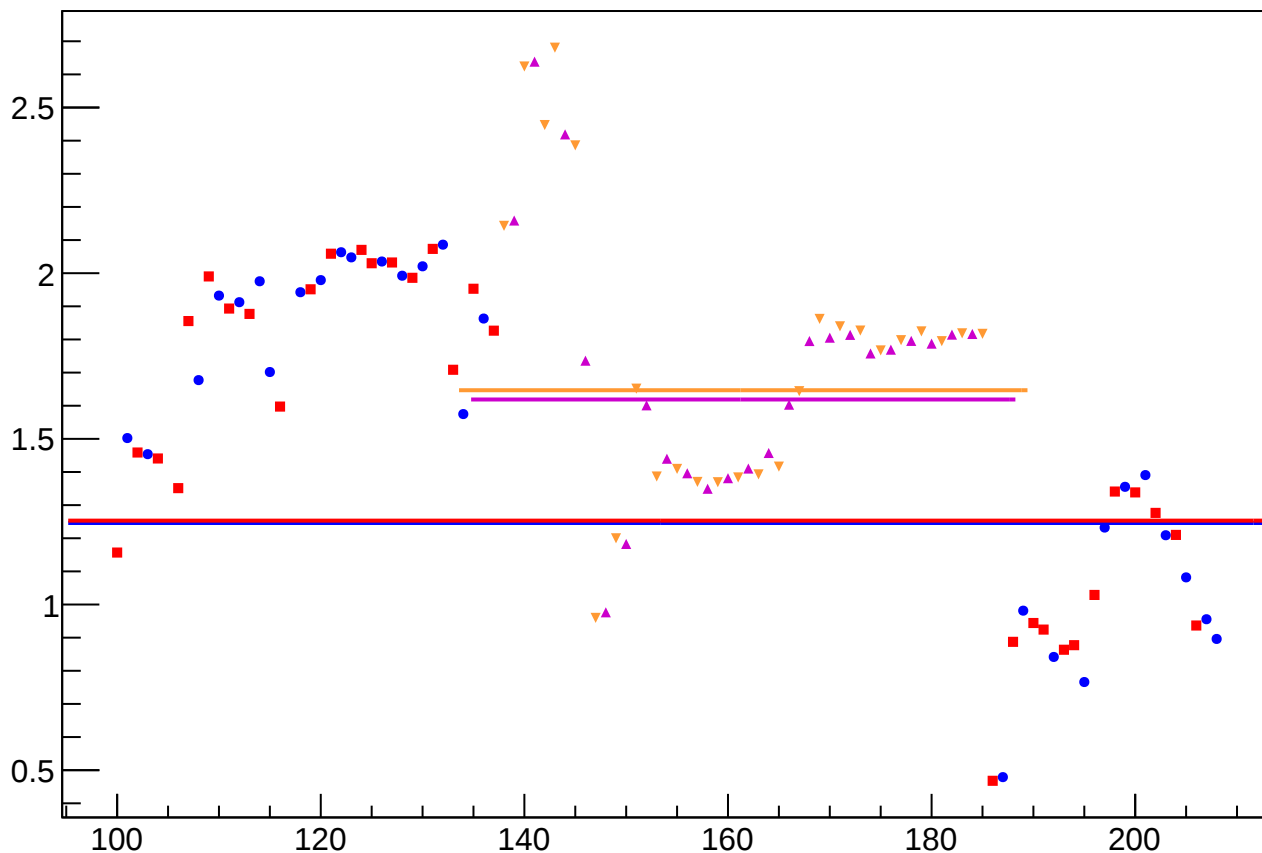
Right: 0.091+/-0.000 χ^2/NDF : 472809.2/58

In: 0.088+/-0.000 χ^2/NDF : 505182.2/50

Out: 0.087+/-0.000 χ^2/NDF : 672763.5/55

All: 0.088+/-0.000 χ^2/NDF : 1179317.5/106

yield_bpm0r05Y_mean vs Slug, Sign Corrected



Right In: 1.246+/-0.000 χ^2/NDF : 15573971432.7/27

Left Out: 1.647+/-0.000 χ^2/NDF : 26535241545.7/24

Right Out: 1.253+/-0.000 χ^2/NDF : 13360921156.7/30

Left In: 1.619+/-0.000 χ^2/NDF : 20618198188.1/22

Left: 1.633+/-0.000 χ^2/NDF : 47231460201.8/47

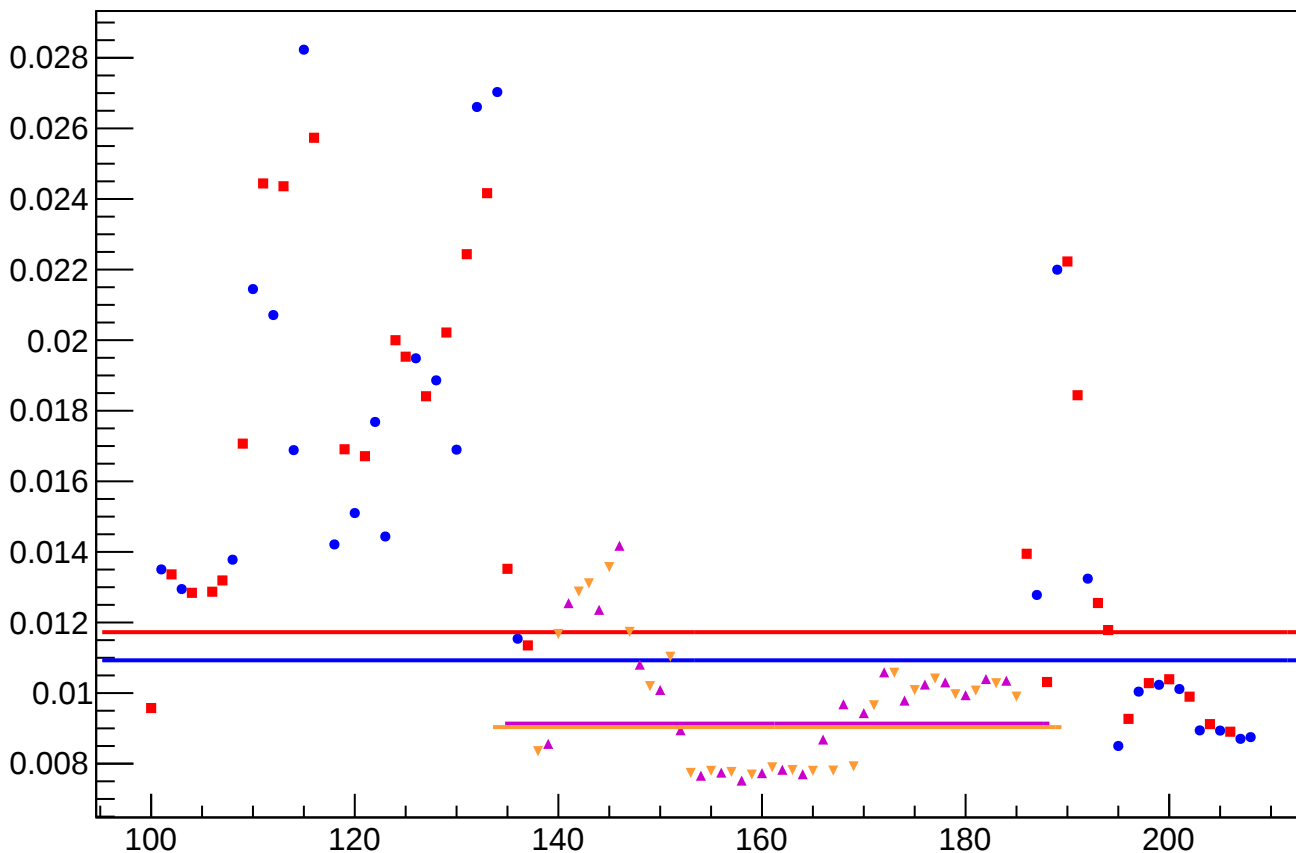
Right: 1.249+/-0.000 χ^2/NDF : 28937374440.7/58

In: 1.487+/-0.000 χ^2/NDF : 45595489939.0/50

Out: 1.525+/-0.000 χ^2/NDF : 49860025898.1/55

All: 1.506+/-0.000 χ^2/NDF : 95672395752.8/100

yield_bpm0r05Y_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000

χ^2/NDF : 2243082.8/27

Left Out: 0.009+/-0.000

χ^2/NDF :1042871.8/24

Right Out: 0.012+/-0.000

χ^2/NDF : 2309749.9/30

Left In: 0.009+/-0.000

χ^2/NDF :878356.2/22

Left: 0.009+/-0.000

χ^2/NDF : 1923188.0/47

Right: 0.011+/-0.000

χ^2/NDF : 4615476.2/58

In: 0.010+/-0.000

χ^2/NDF :3557026.4/50

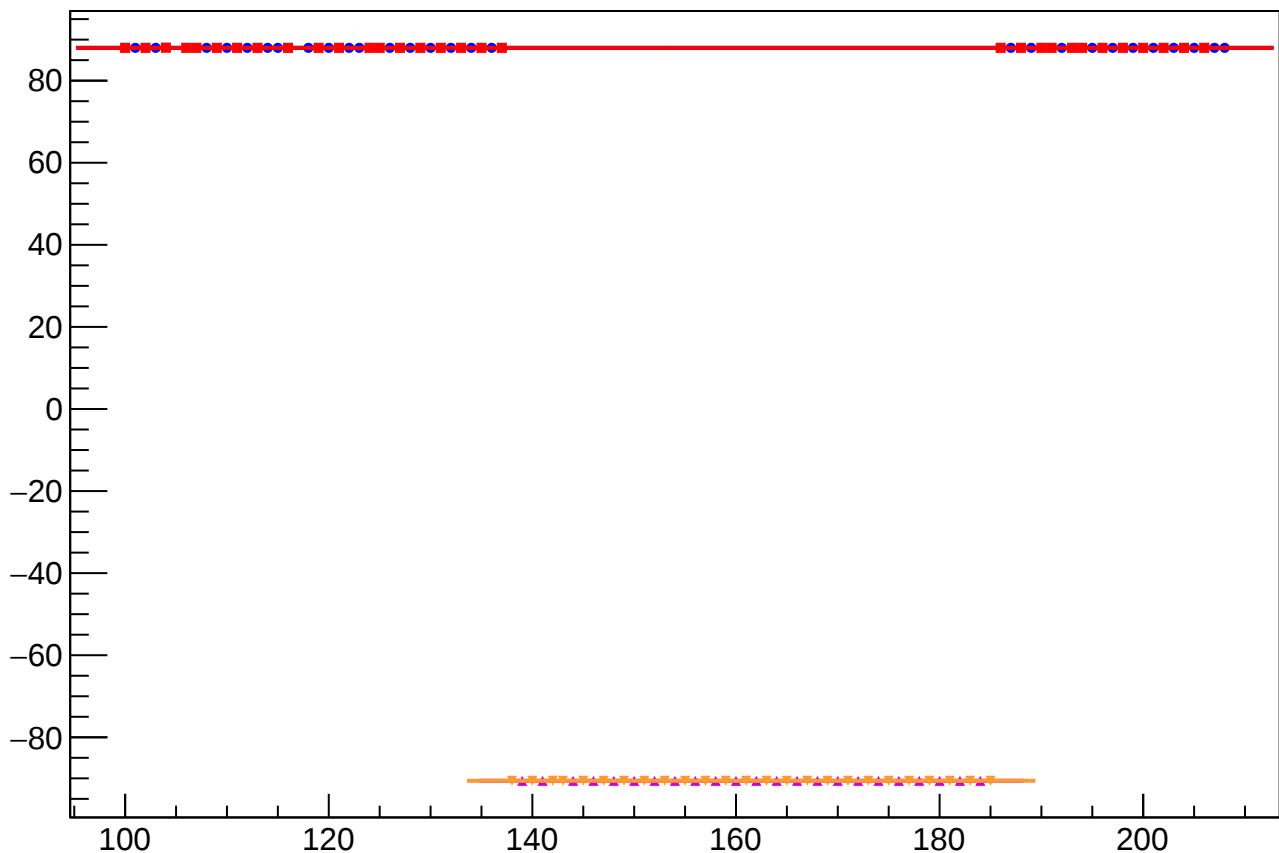
Out: 0.010+/-0.000

χ^2/NDF :4283555.0/55

All: 0.010+/-0.000

χ^2/NDF : 7843452.2/106

epics_VWienAngles_mean vs Slug, Sign Corrected



Right In: 88.001+/-0.000 χ^2/NDF : 4263736.4/27

Left Out: -90.599+/-0.000 χ^2/NDF : 5785821.4/24

Right Out: 88.002+/-0.000 χ^2/NDF : 80690855910129779772655403008.0/30

Left In: -90.599+/-0.000 χ^2/NDF : 7134230.8/22

Left: -90.599+/-0.000 χ^2/NDF : 11903242.1/47

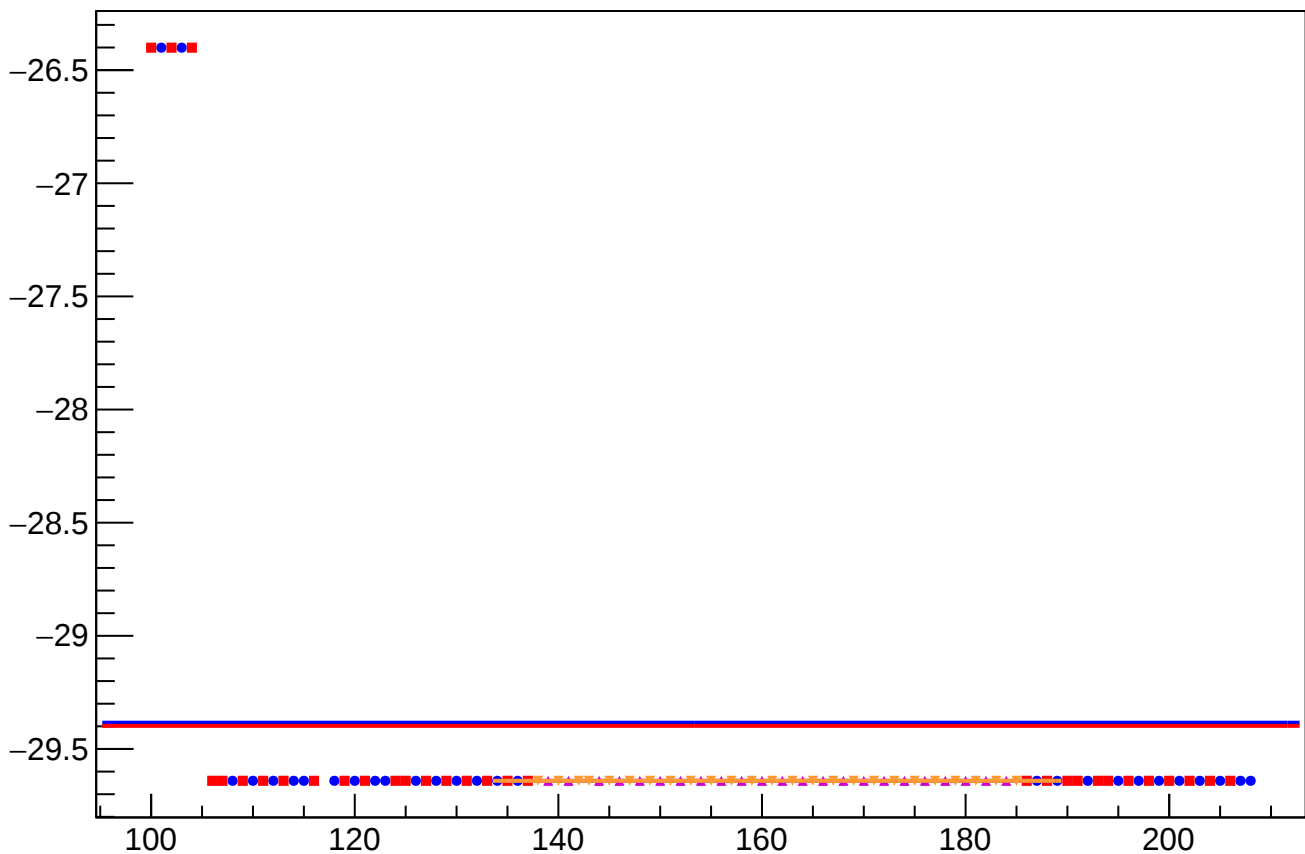
Right: 88.001+/-0.000 χ^2/NDF : 8203864707077510

In: -9.645+/-0.000 χ^2/NDF : 259674058271658751

Out: -10.531+/-0.000 χ^2/NDF : 2724198498669370

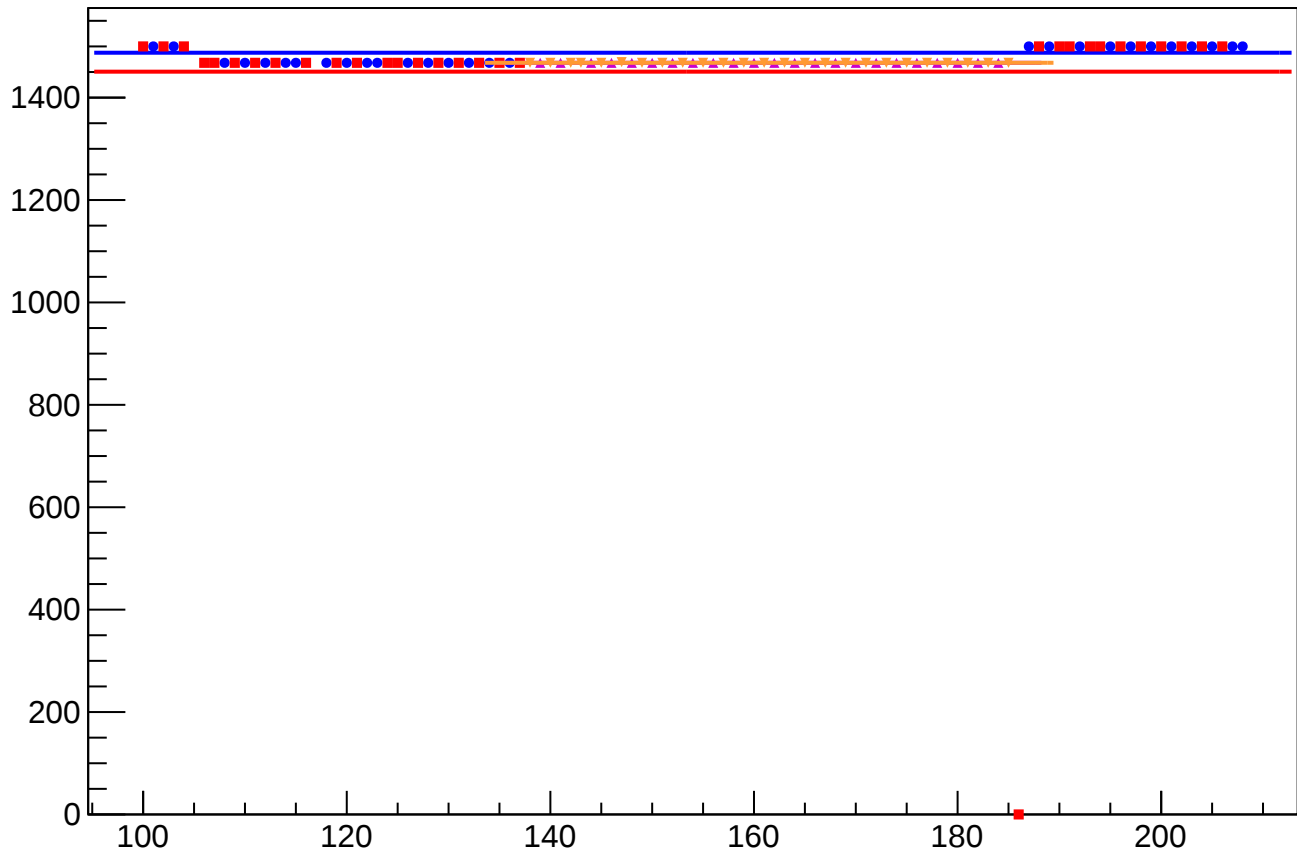
All: -10.099+/-0.000 χ^2/NDF : 532107136382

epics_HWienAngles_mean vs Slug, Sign Corrected



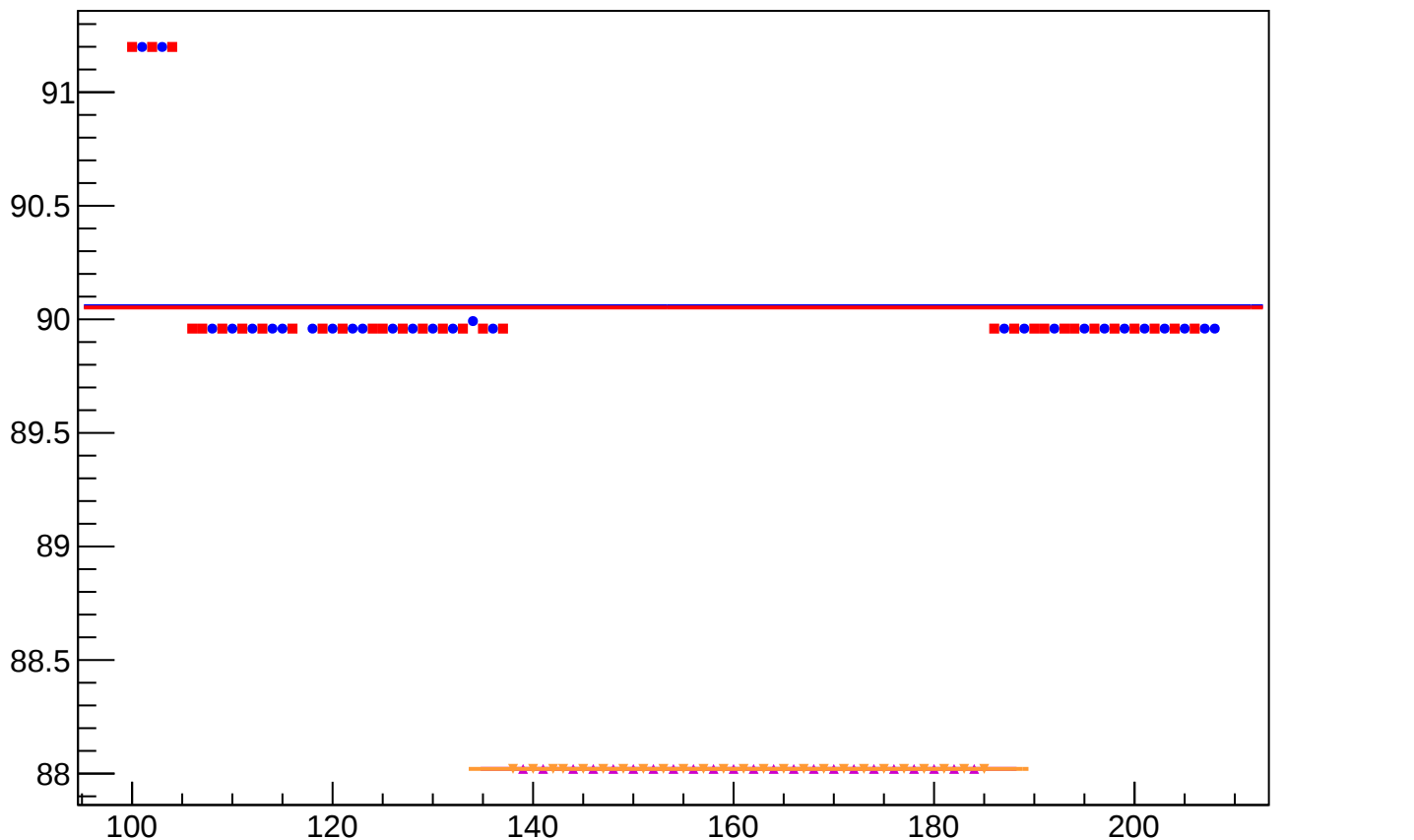
Right In: -29.384+/-0.000	χ^2/NDF : 1140551197313627463837735861616640.0/27	Left: -29.641+/-0.000	χ^2/NDF : 741150.6/47
Left Out: -29.641+/-0.000	χ^2/NDF : 530354.3/24	Right: -29.391+/-0.000	χ^2/NDF : 226717050879155
Right Out: -29.398+/-0.000	χ^2/NDF : 1126471144186035324568812212191232.0/30	In: -29.524+/-0.000	χ^2/NDF : 11942210367123124
Left In: -29.641+/-0.000	χ^2/NDF : 382603.8/22	Out: -29.532+/-0.000	χ^2/NDF : 1176813489487375
		All: -29.528+/-0.000	χ^2/NDF : 237113020979

epics_psub_pl_pos_mean vs Slug, Sign Corrected



Right In: 1487.679+/-0.000 χ^2/NDF : 361452879704035848600871601530994688.0/27
 Left Out: 1468.048+/-0.000 χ^2/NDF : 127949199501977668488138456039424.0/24
 Right Out: 1450.685+/-0.000 χ^2/NDF : 82353550162967505288878990526532026368.0/30
 Left In: 1467.994+/-0.000 χ^2/NDF : 144497772795444989723550941184.0/22
 All: 1468.383+/-0.000 χ^2/NDF : 83754856382

epics_Phi_FGs_mean vs Slug, Sign Corrected



Right In: 90.058+/-0.000

χ^2/NDF : 166944542206349386203750406815744.0/27

Left Out: 88.021+/-0.000

χ^2/NDF : 5679798.5/24

Right Out: 90.052+/-0.000

χ^2/NDF : 164996002067225251639100472033280.0/30

Left In: 88.021+/-0.000

χ^2/NDF : 6257169.0/22

Left: 88.021+/-0.000 χ^2/NDF : 13134723.4/47

Right: 90.055+/-0.000

χ^2/NDF : 3319661948126053

In: 88.944+/-0.000

χ^2/NDF : 354593683408562436

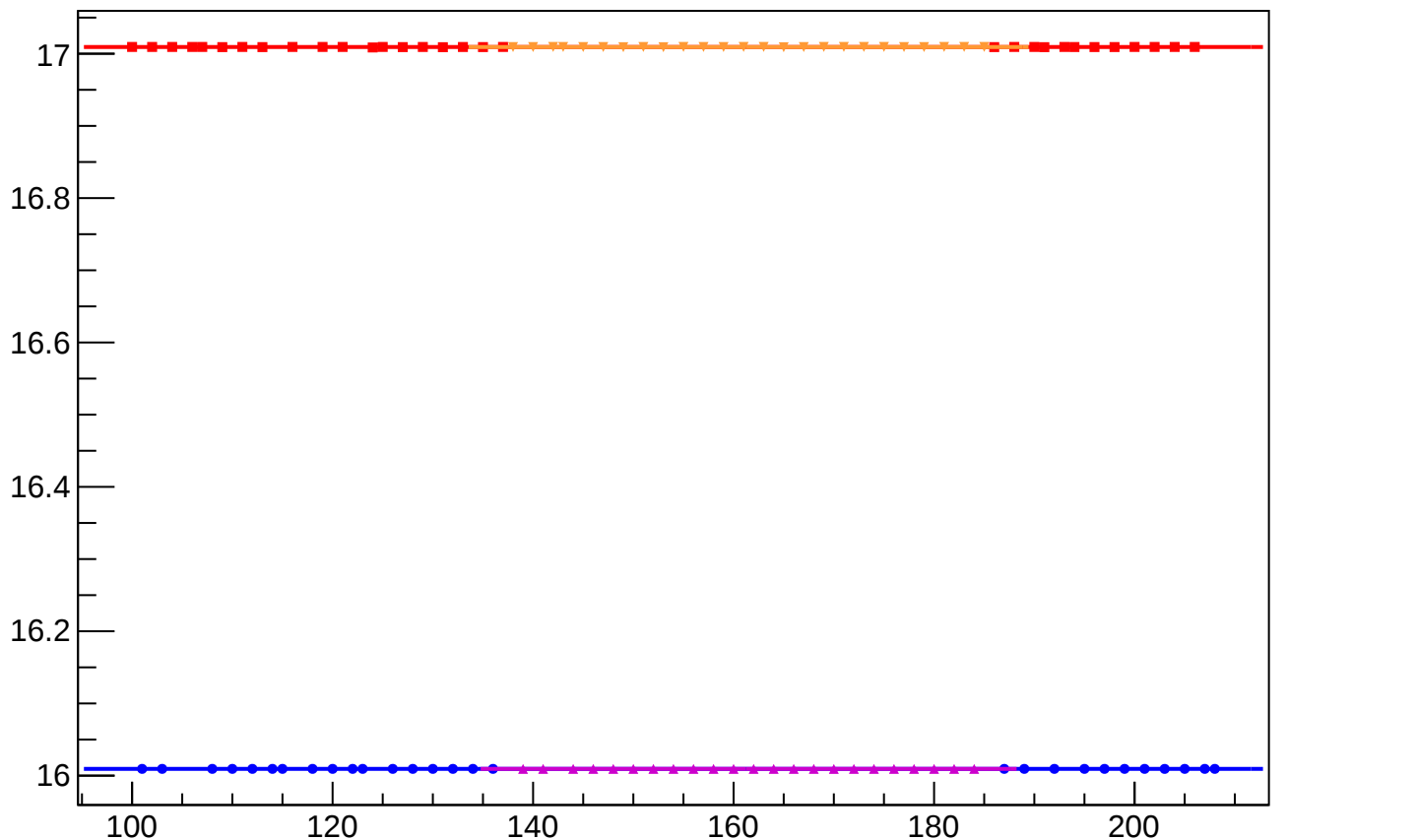
Out: 88.931+/-0.000

χ^2/NDF : 36895879609672090

All: 88.938+/-0.000

χ^2/NDF : 7235797383881

epics_IGL1I00DI24_24Ms_mean vs Slug, Sign Corrected



Left: 16.524 +/- 0.000 χ^2/NDF : 85855870772921272

Right: 16.513 +/- 0.000 χ^2/NDF : 7343441289626804

In: 16.009 +/- 0.000 χ^2/NDF : 24183895656287584

Out: 17.009 +/- 0.000 χ^2/NDF : 45795854524745944

All: 16.519 +/- 0.000 χ^2/NDF : 1593085275977

Right In: 16.009 +/- 0.000

χ^2/NDF : 113860715026345430614016.0/27

Left Out: 17.009 +/- 0.000

χ^2/NDF : 26194929080144976634970112.0/24

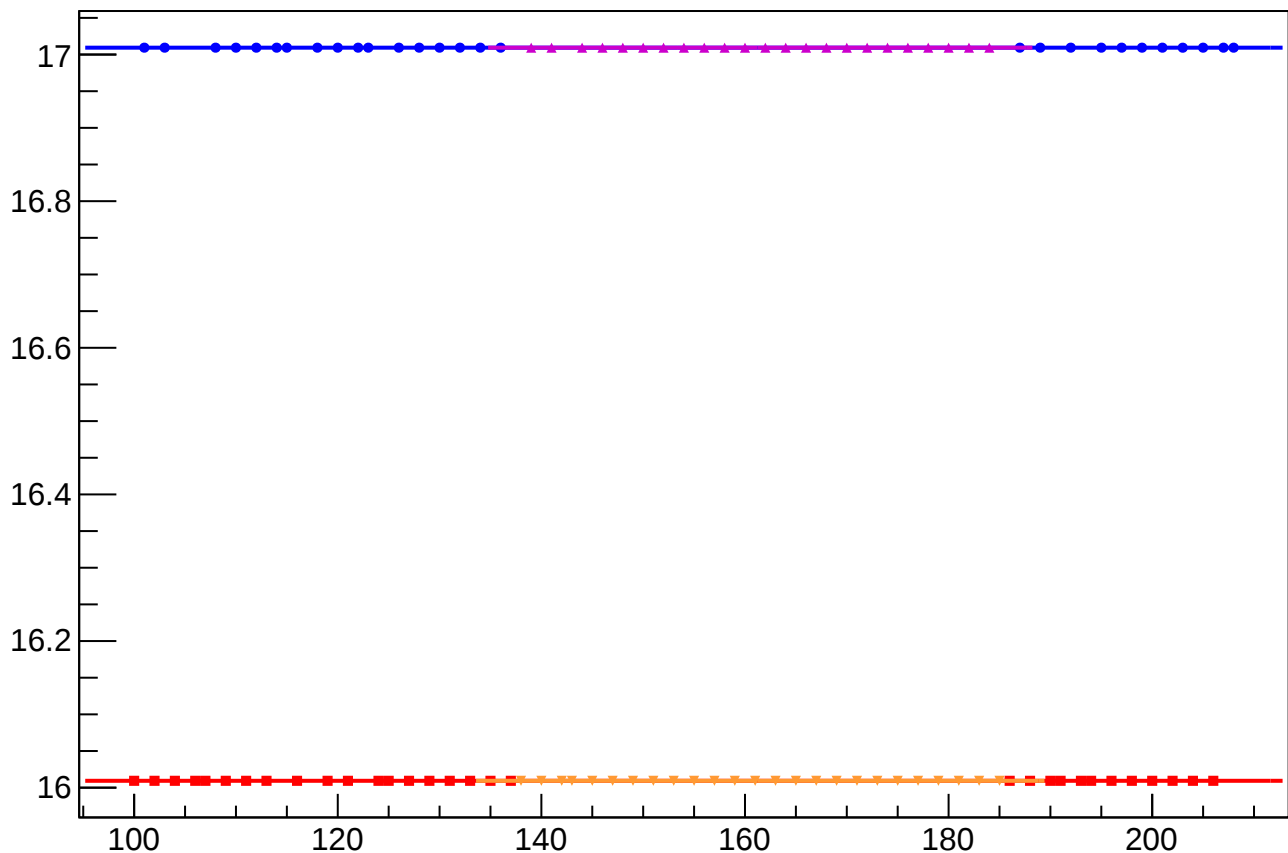
Right Out: 17.009 +/- 0.000

χ^2/NDF : 18638069557053823345754112.0/30

Left In: 16.009 +/- 0.000

χ^2/NDF : 127920993667935400624128.0/22

epics_IGL1I00OD16_16s_mean vs Slug, Sign Corrected



Right In: 17.009+/-0.000

χ^2/NDF : 113860715070937223921664.0/27

Left: 16.491+/-0.000

χ^2/NDF : 90683349233974458

Right: 16.495+/-0.000

χ^2/NDF : 7489083952973922

Left Out: 16.009+/-0.000

χ^2/NDF : 61253.5/24

In: 17.009+/-0.000

χ^2/NDF : 228949953529118241

Right Out: 16.009+/-0.000

χ^2/NDF : 323041.7/30

Out: 16.009+/-0.000

χ^2/NDF : 550183.1/55

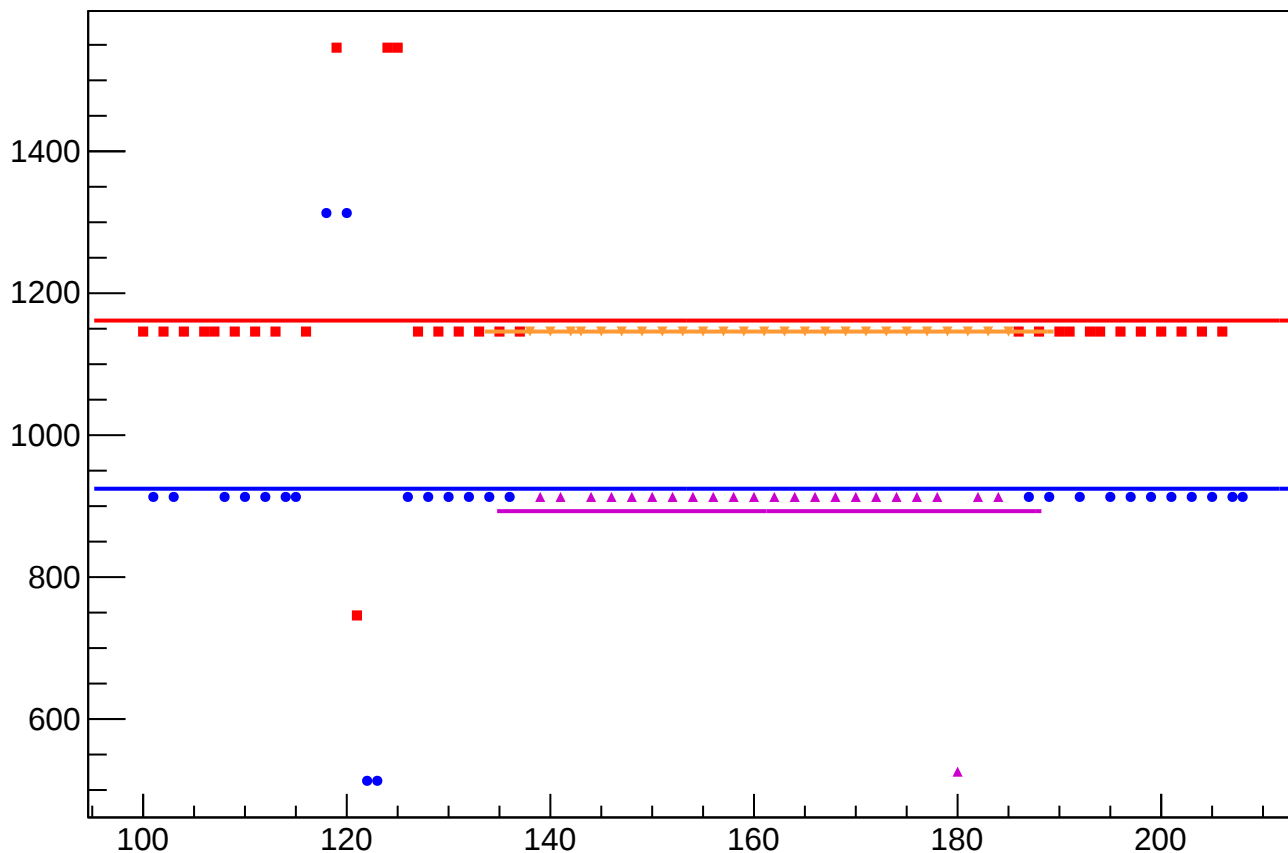
Left In: 17.009+/-0.000

χ^2/NDF : 114986101427233622065152.0/22

All: 16.493+/-0.000

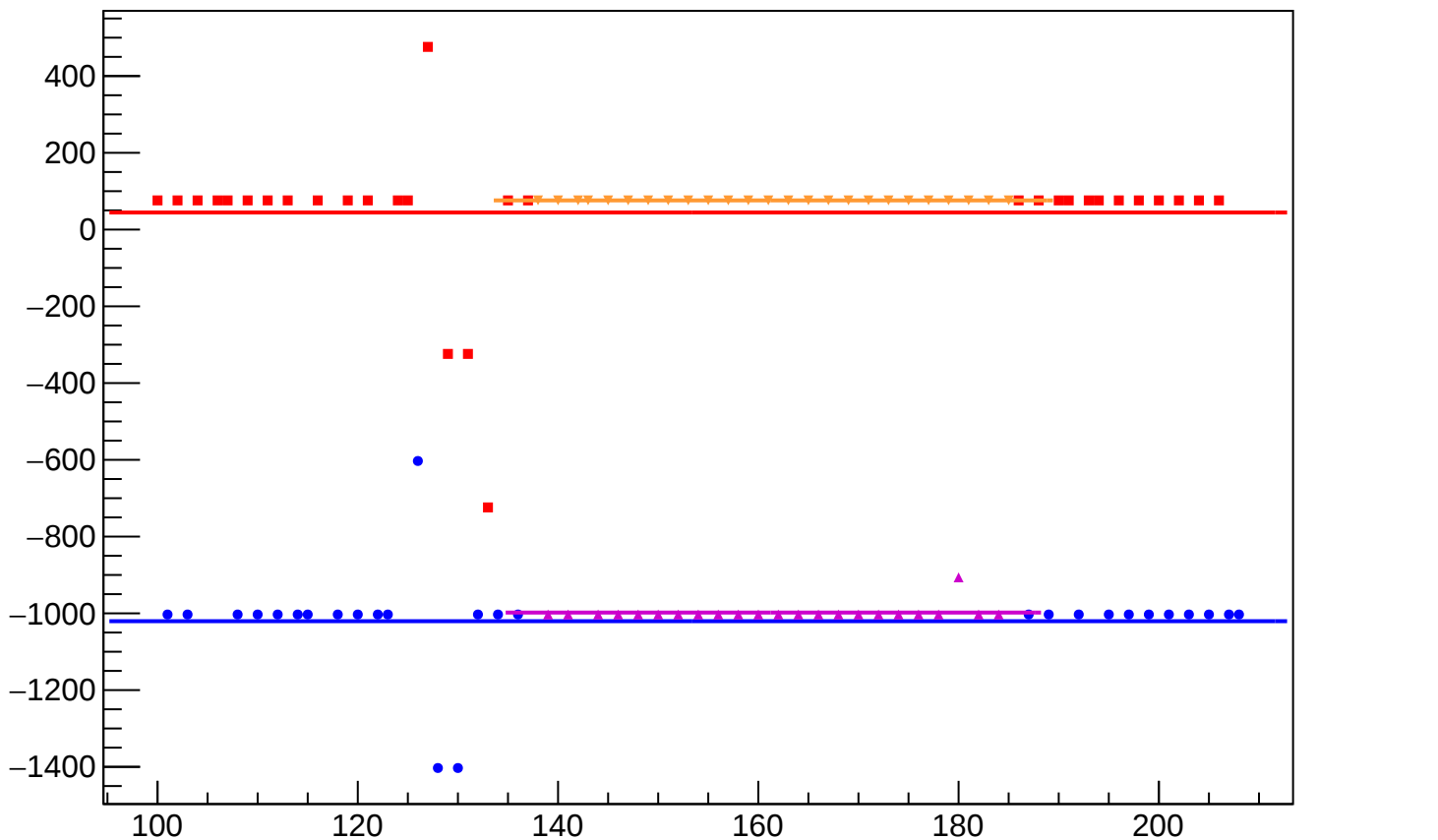
χ^2/NDF : 1655766700838

epics_RTPAPOSUCNTs_mean vs Slug, Sign Corrected



Right In: 924.546+/-0.000 χ^2/NDF : 21082664331199014519694311233301774336.0/27
 Left Out: 1161.514+/-0.000 χ^2/NDF : 21708635884446722157874273853770825728.0/30
 Left In: 892.950+/-0.000 χ^2/NDF : 13213852485930520518972295012897783808.0/22
 Right Out: 1045.332+/-0.000 χ^2/NDF : 85409773746980
 In: 907.272+/-0.000 χ^2/NDF : 35109207115088292
 Out: 1152.961+/-0.000 χ^2/NDF : 219138801047818
 All: 1033.179+/-0.000 χ^2/NDF : 15864152418

epics_RTPAPOSVCNTs_mean vs Slug, Sign Corrected



Right In: -1020.450 ± 0.000 $\chi^2/\text{NDF}: 22745673140214995212111968669496508416.0/27$
 Left Out: 76.011 ± 0.000 $\chi^2/\text{NDF}: 11479003589933272170007363584.0/24$
 Right Out: 44.486 ± 0.000 $\chi^2/\text{NDF}: 45501363450063733880445875935160303616.0/30$
 Left In: -997.979 ± 0.000 $\chi^2/\text{NDF}: 825858066518991041870194619245920256.0/22$
 All: -459.803 ± 0.000 $\chi^2/\text{NDF}: 19978717932$