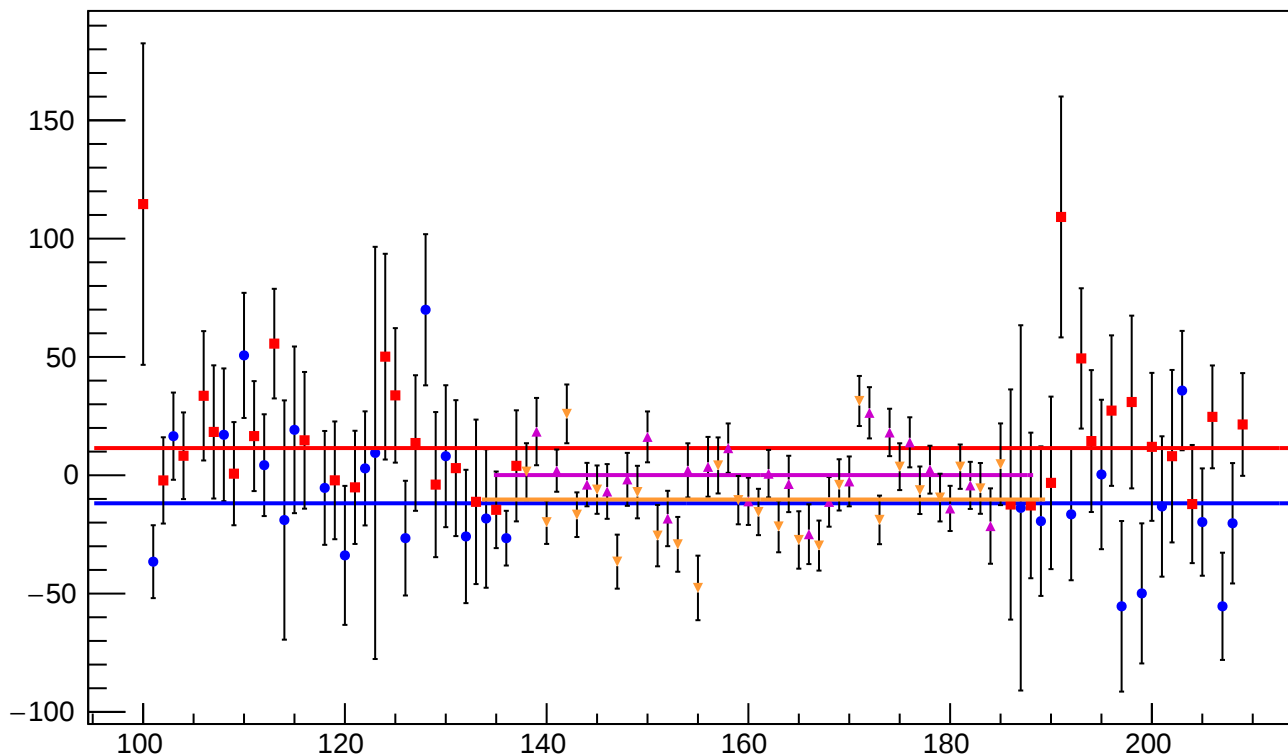


diff_bpm4aX_mean vs Slug, Sign Corrected



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: 11.495 ± 4.706

χ^2/NDF : 21.6/31

Left In: 0.080 ± 2.251

χ^2/NDF : 29.9/22

Left: -5.266 ± 1.562

χ^2/NDF : 98.9/47

Right: -0.178 ± 3.327

χ^2/NDF : 68.0/59

In: -2.140 ± 2.030

χ^2/NDF : 69.2/50

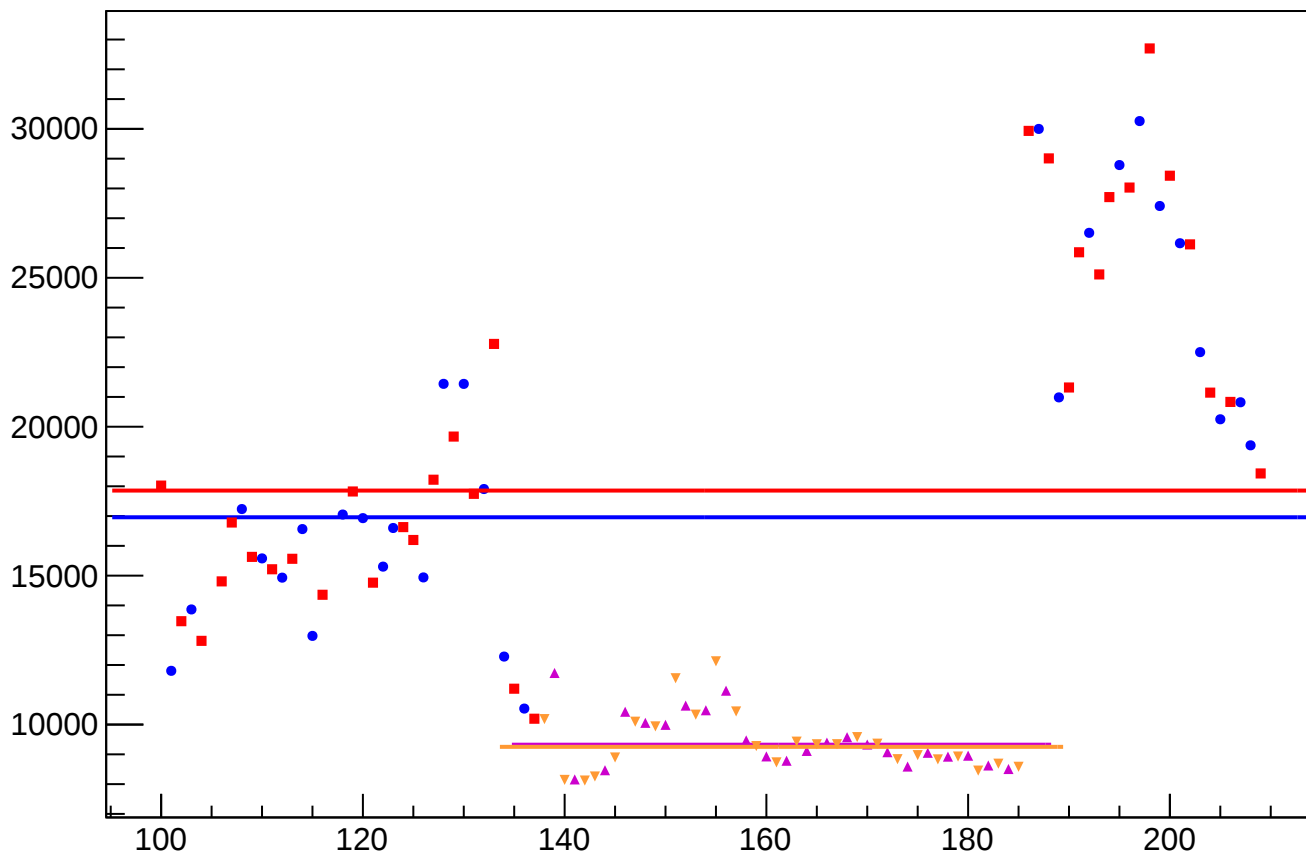
Out: -6.427 ± 1.971

χ^2/NDF : 97.3/56

All: -4.347 ± 1.414

χ^2/NDF : 168.8/107

diff_bpm4aX_rms vs Slug, Sign Corrected



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

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

Right Out: 17856.458+/-3.328 χ^2/NDF : 2761664.3/31

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

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

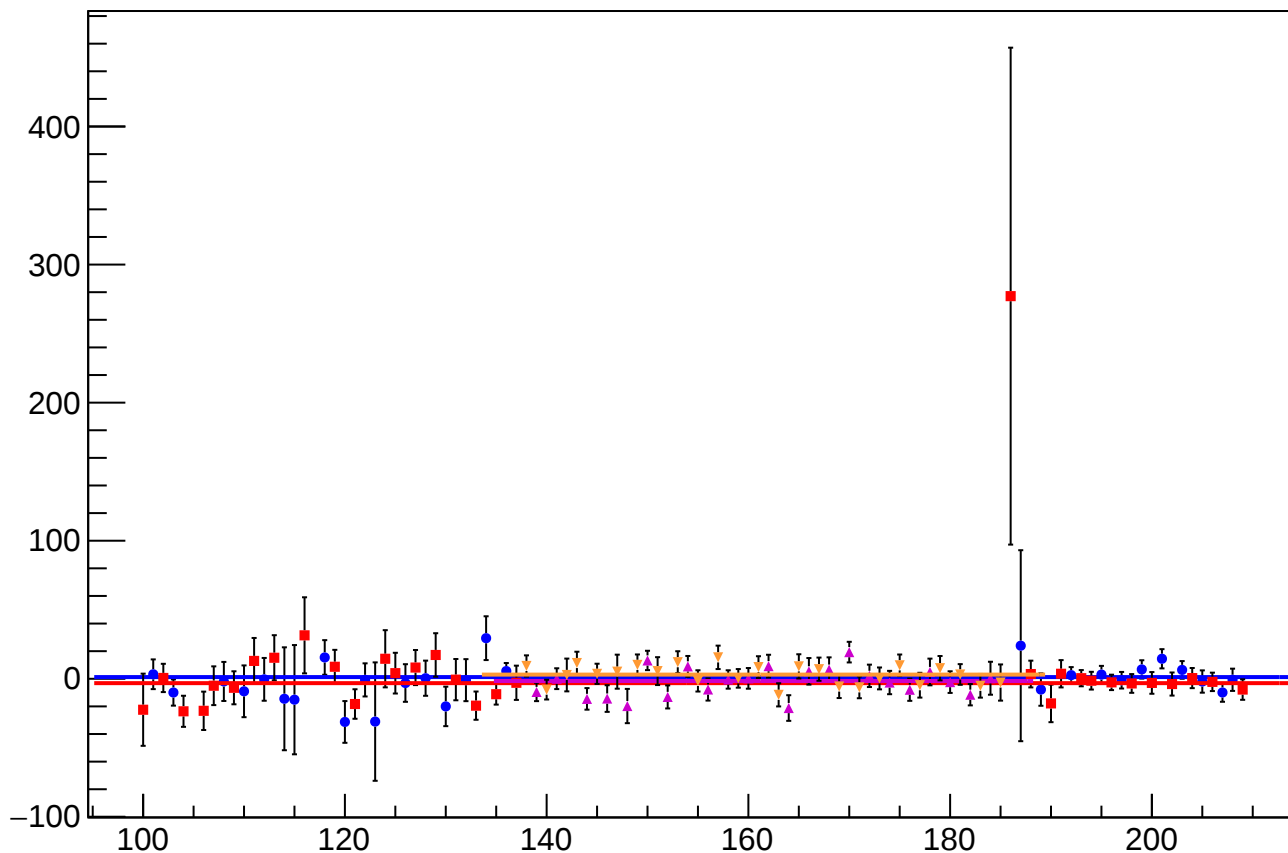
Right: 17407.868+/-2.353 χ^2/NDF : 5439878.6/59

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

Out: 10760.613+/-1.394 χ^2/NDF : 8606904.7/56

All: 10753.552+/-1.000 χ^2/NDF : 15812299.9

diff_bpm4aY_mean vs Slug, Sign Corrected



Right In: 1.233 ± 1.778 χ^2/NDF : 23.6/27

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

Right Out: -3.155 ± 1.718 χ^2/NDF : 25.6/31

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

Left: 0.777 ± 1.189 χ^2/NDF : 57.8/47

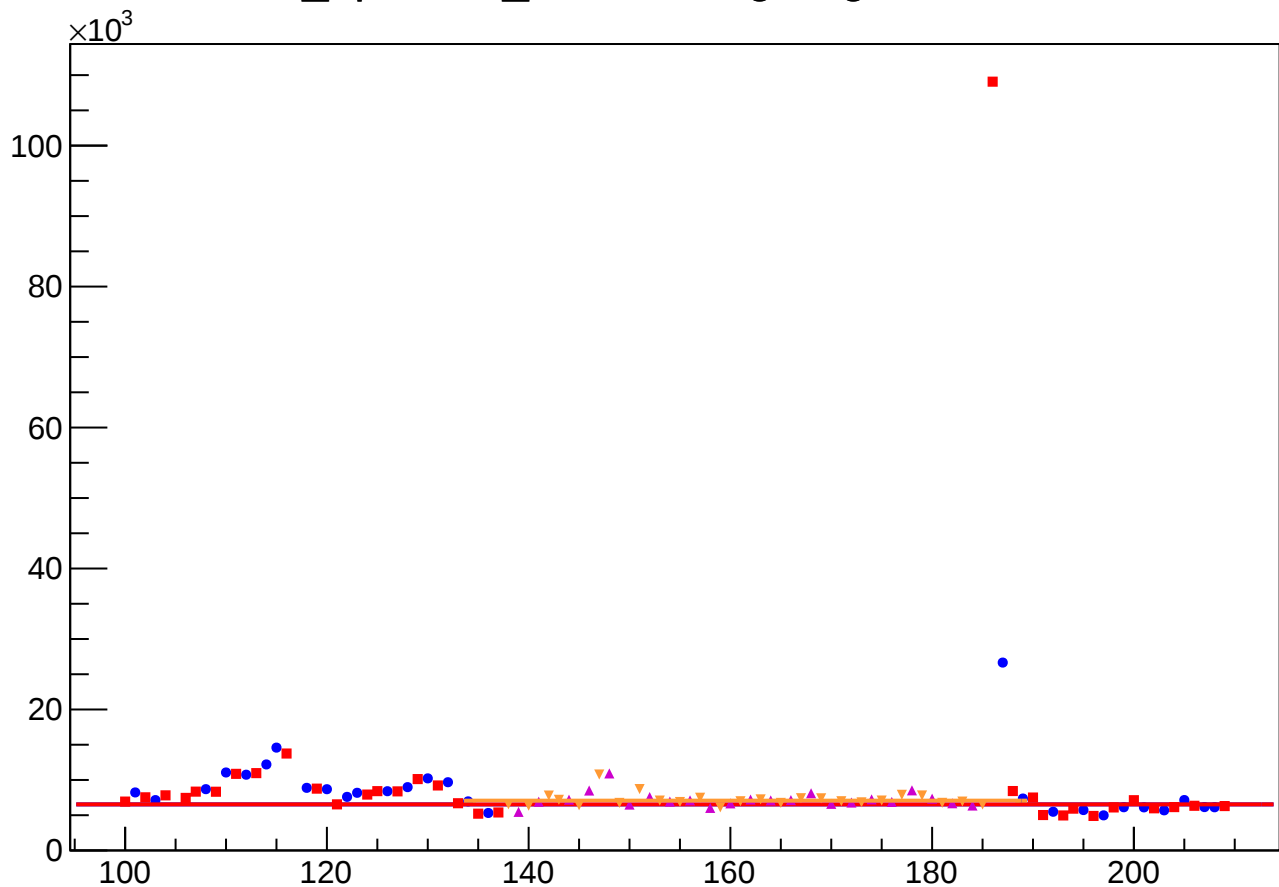
Right: -1.036 ± 1.235 χ^2/NDF : 52.4/59

In: -0.239 ± 1.230 χ^2/NDF : 60.5/50

Out: 0.041 ± 1.194 χ^2/NDF : 50.9/56

All: -0.095 ± 0.857 χ^2/NDF : 111.4/107

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: 6538.557 $\pm$ 1.215 χ^2/NDF : 2104305.7/31

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

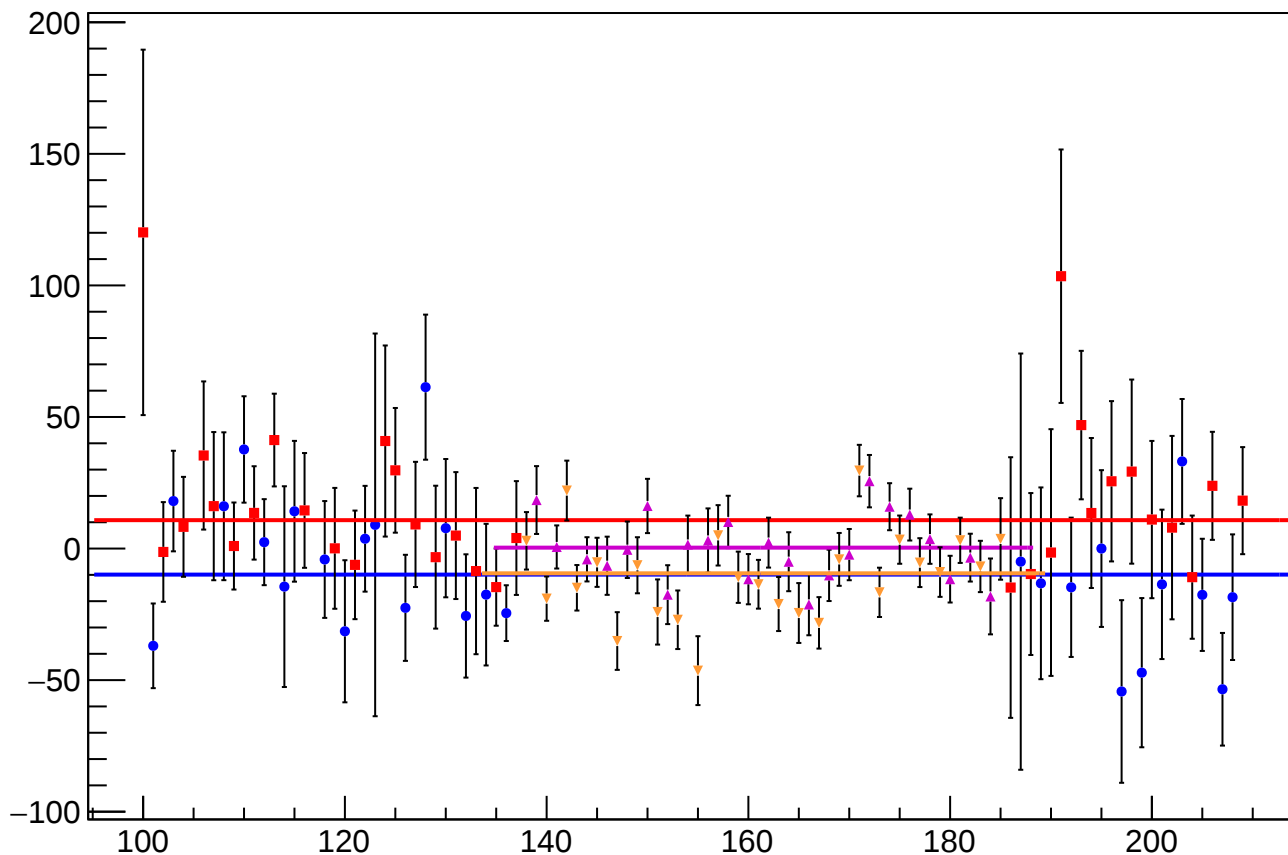
Right: 6535.742 $\pm$ 0.874 χ^2/NDF : 3635118.6/59

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

Out: 6810.431 $\pm$ 0.844 χ^2/NDF : 2588013.7/56

All: 6797.647 $\pm$ 0.606 χ^2/NDF : 4721225.7/100

diff_bpm4eX_mean vs Slug, Sign Corrected



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

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

Right Out: 10.789 $\pm$ 4.258 χ^2/NDF : 21.2/31

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

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

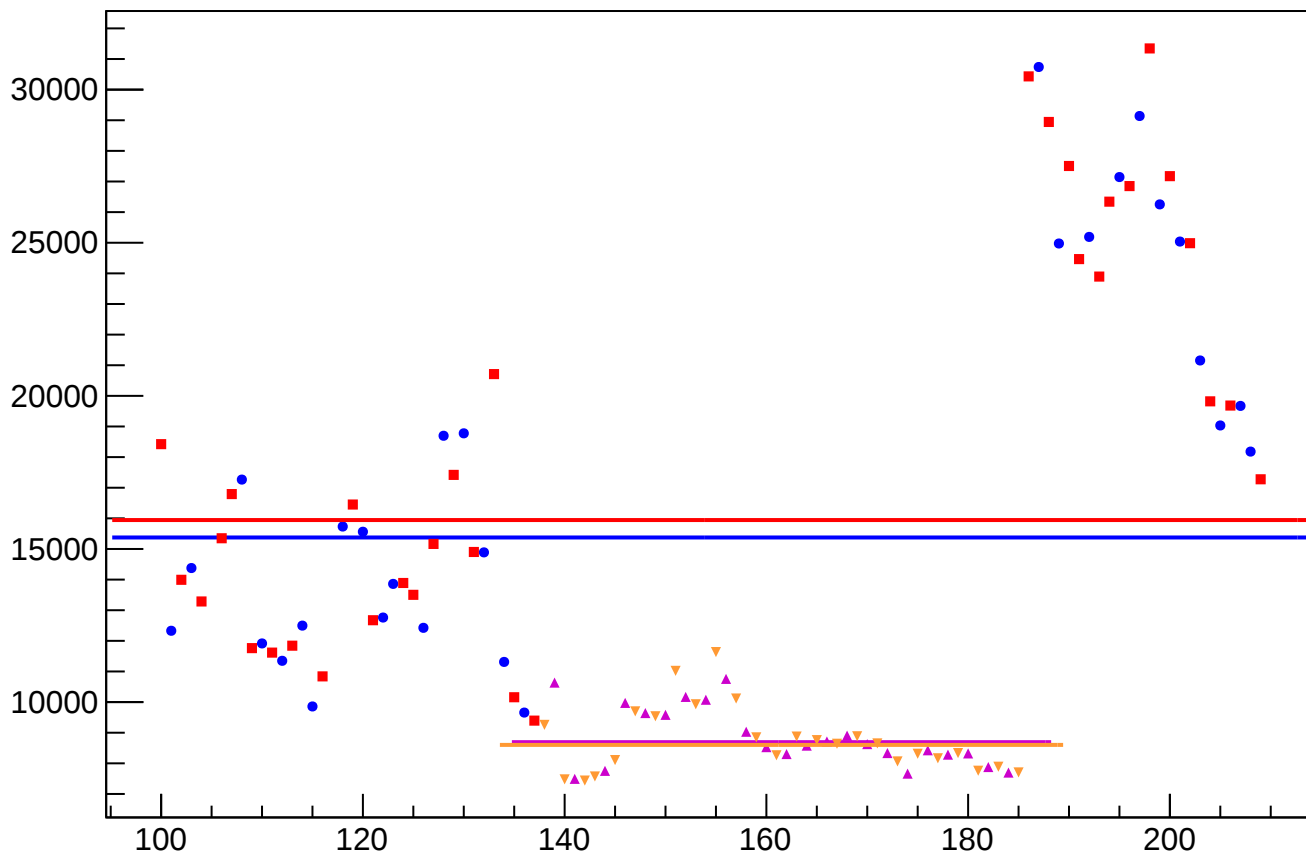
Right: 0.530 $\pm$ 3.023 χ^2/NDF : 68.1/59

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

Out: -5.697 $\pm$ 1.826 χ^2/NDF : 98.3/56

All: -3.733 $\pm$ 1.312 χ^2/NDF : 170.4/107

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: 15944.635 $\pm$ 3.011 χ^2 /NDF: 3489490.0/31

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

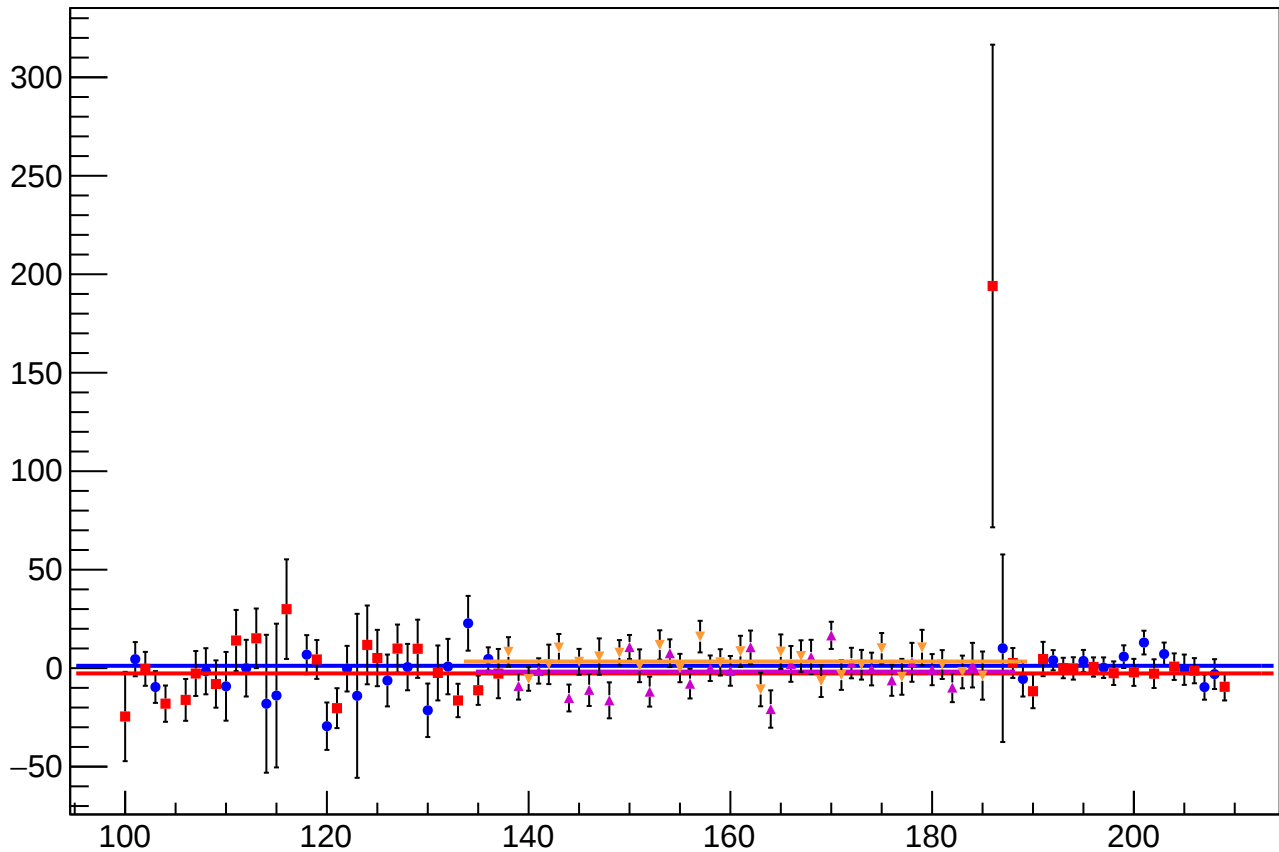
Right: 15662.440 $\pm$ 2.138 χ^2 /NDF: 6567725.8/59

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

Out: 9952.065 $\pm$ 1.291 χ^2 /NDF:8781433.6/56

All: 9966.567 $\pm$ 0.928 χ^2 /NDF: 16118771.2/106

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: -2.667 ± 1.520 χ^2/NDF : 27.0/31

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

Left: 0.899 ± 1.116 χ^2/NDF : 56.0/47

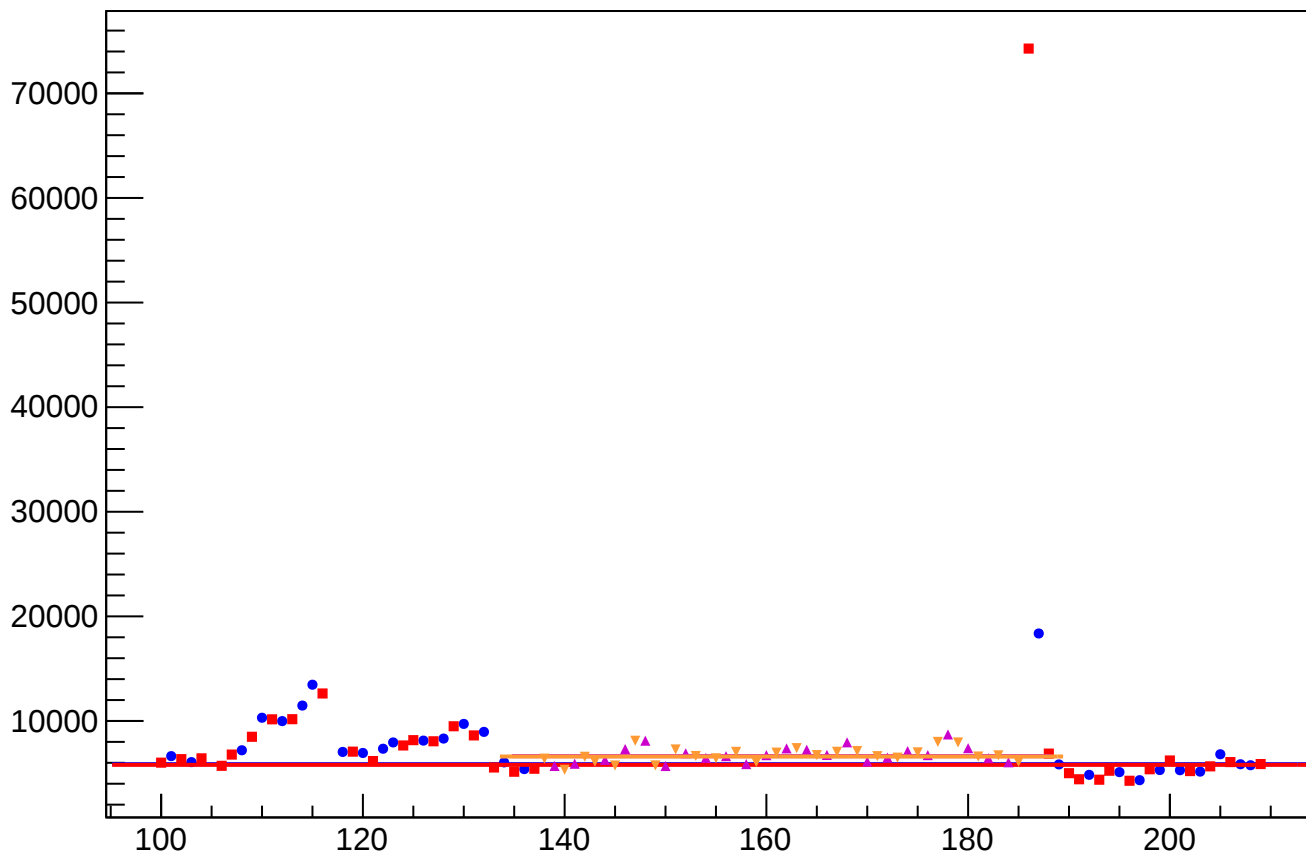
Right: -0.827 ± 1.100 χ^2/NDF : 55.5/59

In: -0.268 ± 1.132 χ^2/NDF : 60.7/50

Out: 0.292 ± 1.086 χ^2/NDF : 51.9/56

All: 0.024 ± 0.784 χ^2/NDF : 112.7/107

diff_bpm4eY_rms vs Slug, Sign Corrected



Right In: 5870.070+/-1.127

χ^2/NDF : 1492674.8/27

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

Left Out: 6603.953+/-1.097

χ^2/NDF : 395247.5/24

Right: 5836.785+/-0.778 χ^2/NDF : 3627546.5/59

Right Out: 5806.513+/-1.075

χ^2/NDF : 2133207.1/31

In: 6250.567+/-0.800

χ^2/NDF : 2137885.2/50

Out: 6197.087+/-0.768

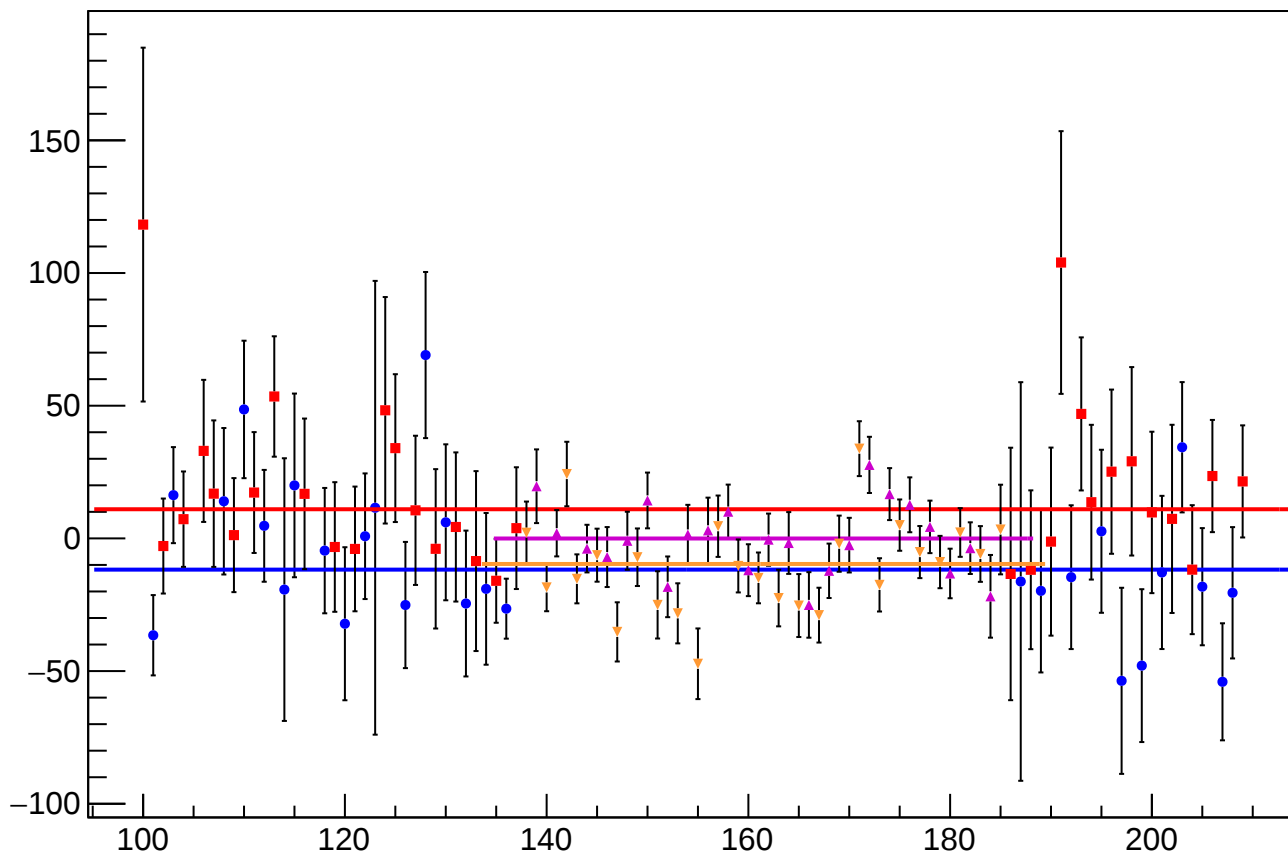
χ^2/NDF : 2797922.8/56

Left In: 6637.155+/-1.136

χ^2/NDF : 415547.5/22

All: 6222.724+/-0.554 χ^2/NDF : 4938133.0/10

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: 10.984 ± 4.603 χ^2/NDF : 21.6/31

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

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

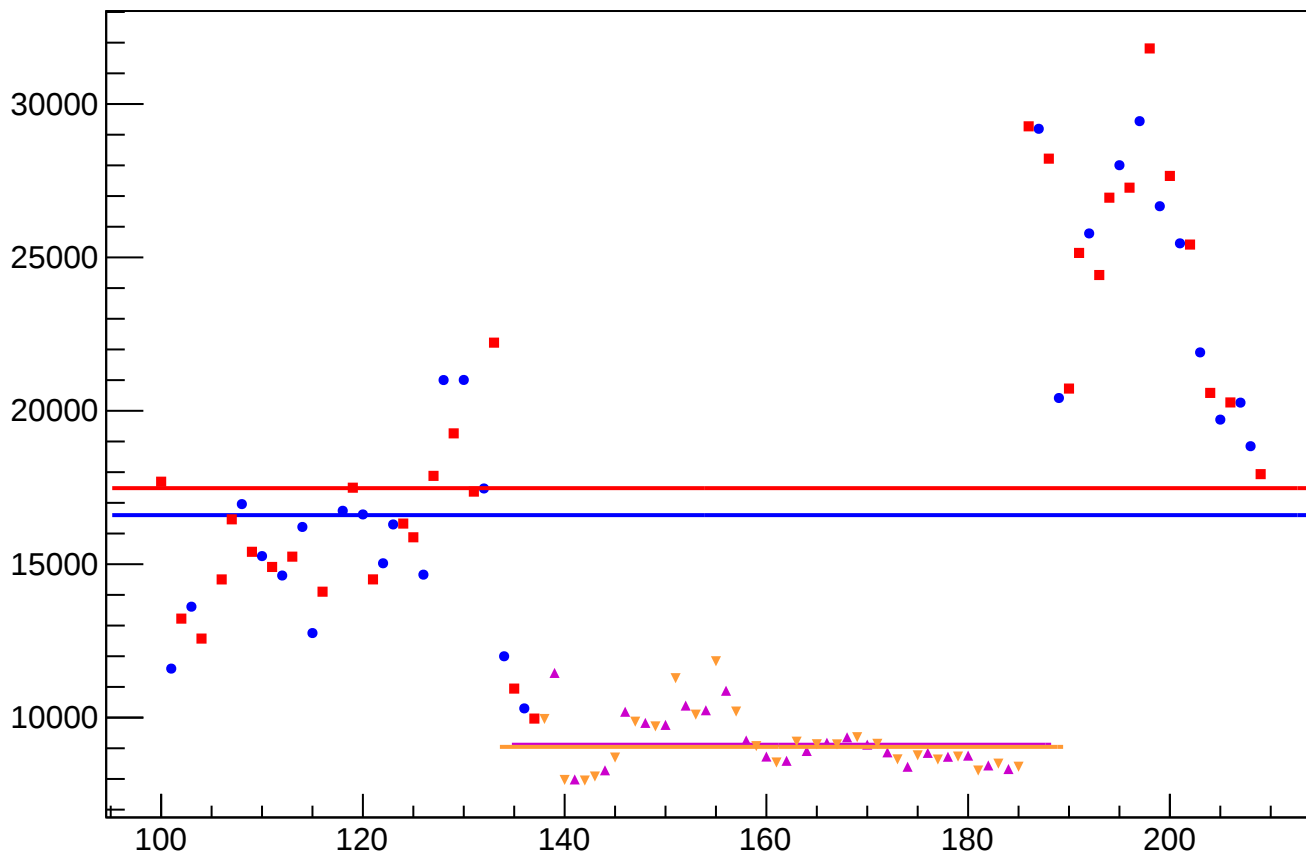
Right: -0.399 ± 3.254 χ^2/NDF : 67.7/59

In: -2.225 ± 1.985 χ^2/NDF : 69.9/50

Out: -6.026 ± 1.927 χ^2/NDF : 98.1/56

All: -4.182 ± 1.383 χ^2/NDF : 169.9/107

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: 17478.943 $\pm$ 3.255 χ^2/NDF : 2714814.9/31

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

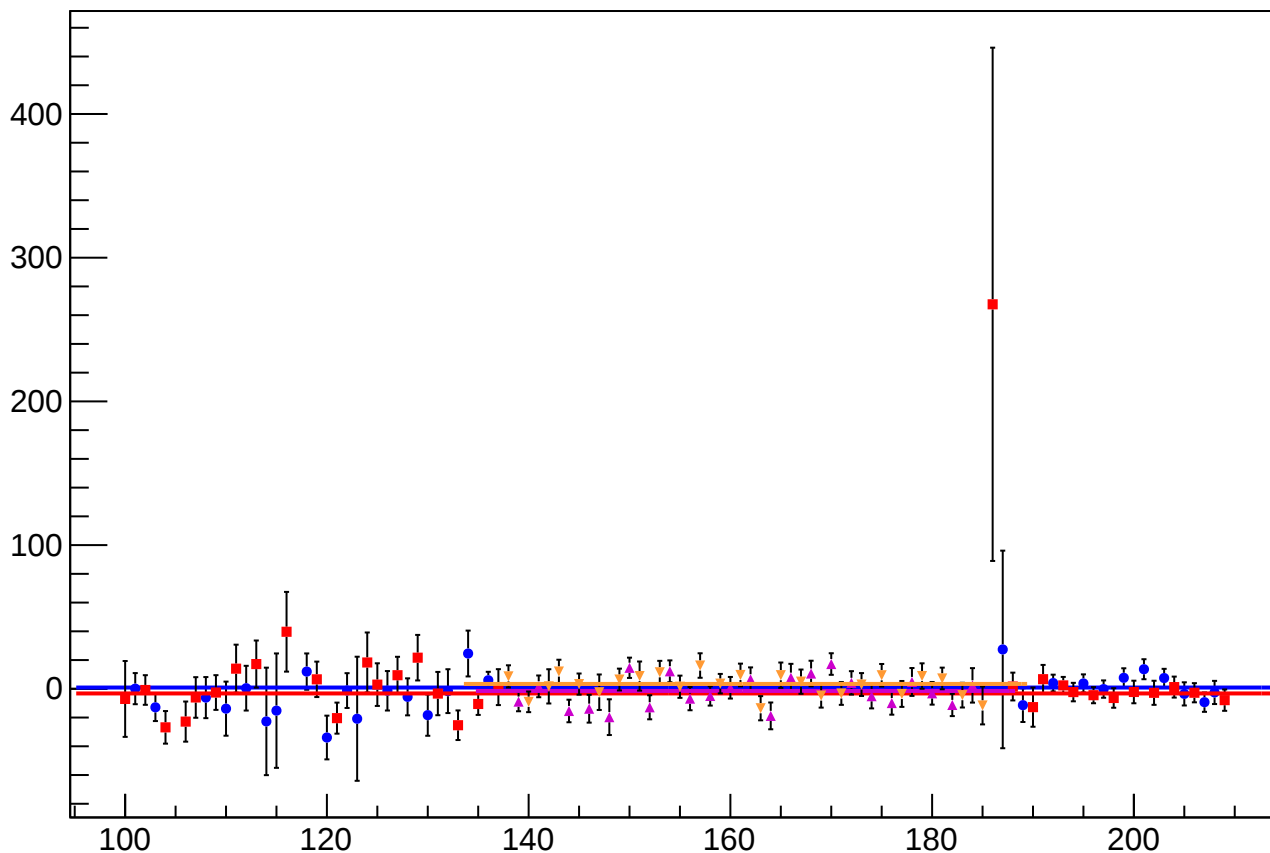
Right: 17039.060 $\pm$ 2.301 χ^2/NDF : 5352919.0/59

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

Out: 10523.576 $\pm$ 1.363 χ^2/NDF :8579624.2/56

All: 10516.343 $\pm$ 0.978 χ^2/NDF : 15760554.0

diff_bpm4acY_mean vs Slug, Sign Corrected



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

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

Right Out: -3.231 ± 1.725 $\chi^2/\text{NDF}: 30.9/31$

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

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

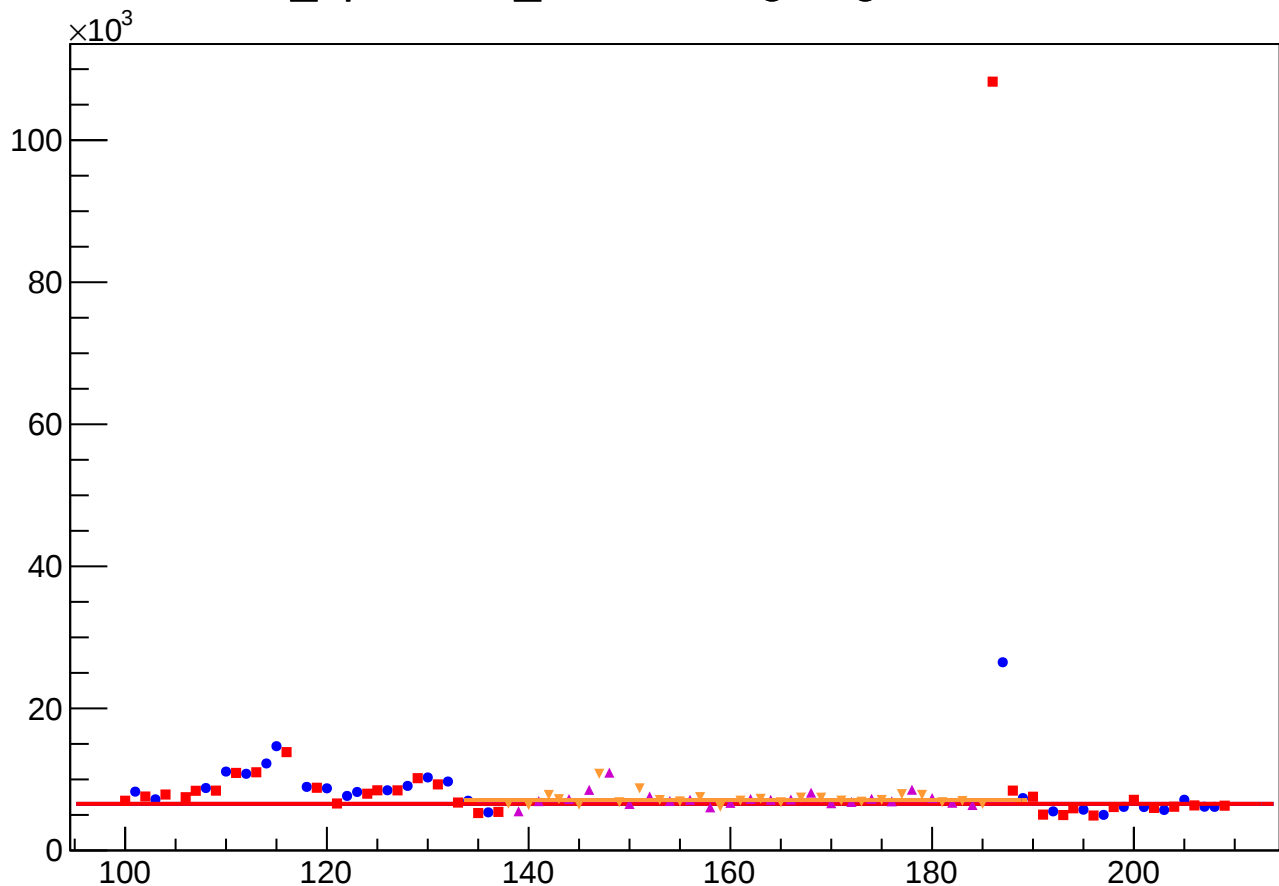
Right: -1.244 ± 1.240 $\chi^2/\text{NDF}: 58.5/59$

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

Out: 0.188 ± 1.199 $\chi^2/\text{NDF}: 57.9/56$

All: -0.072 ± 0.860 $\chi^2/\text{NDF}: 120.5/107$

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: 6564.361+/-1.219 χ^2/NDF : 2110073.5/31

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

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

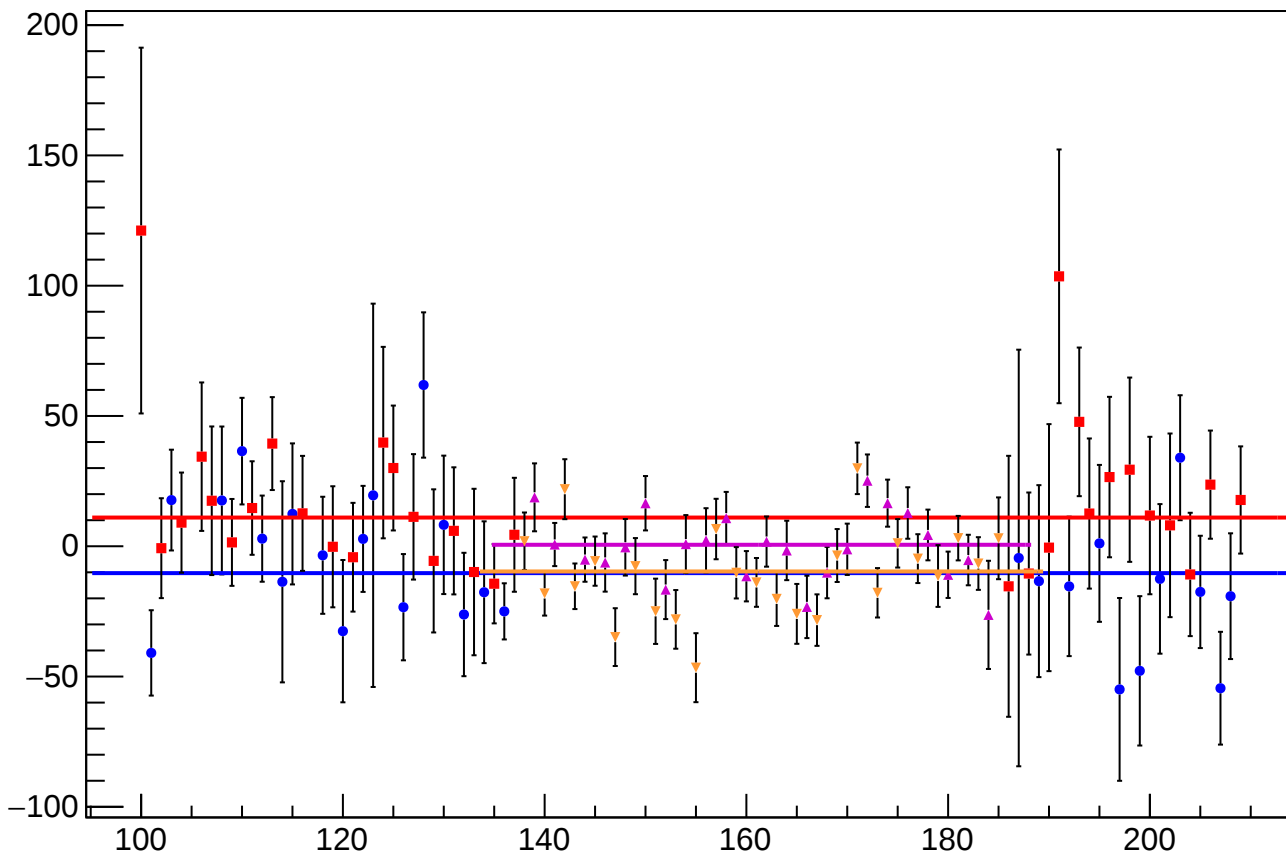
Right: 6559.778+/-0.877 χ^2/NDF : 3650361.8/59

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

Out: 6839.245+/-0.848 χ^2/NDF : 2590356.6/56

All: 6825.767+/-0.608 χ^2/NDF : 4727960.9/100

diff_bpm4ecX_mean vs Slug, Sign Corrected



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

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

Right Out: 11.015 $\pm$ 4.315 χ^2/NDF : 20.2/31

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

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

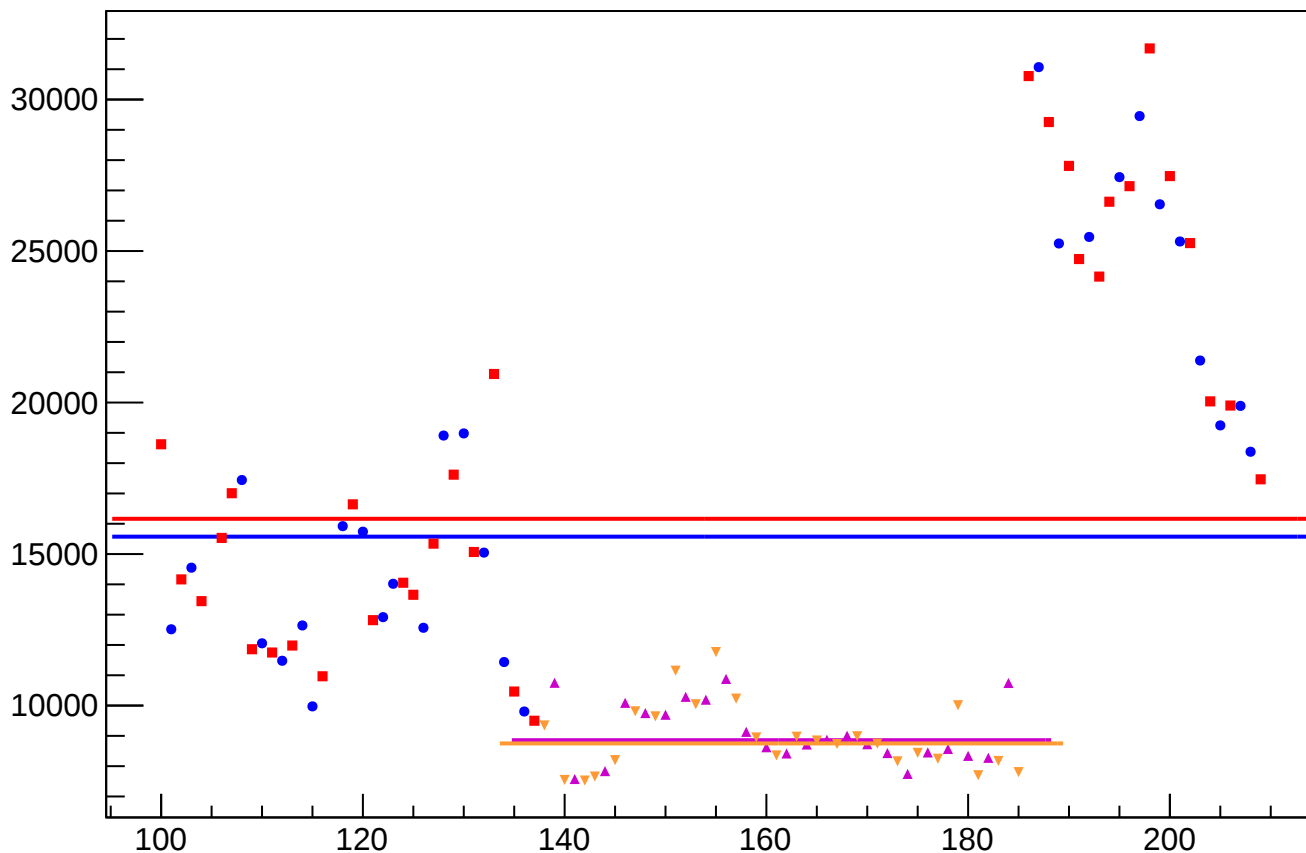
Right: 0.434 $\pm$ 3.063 χ^2/NDF : 68.1/59

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

Out: -5.829 $\pm$ 1.859 χ^2/NDF : 96.8/56

All: -3.767 $\pm$ 1.337 χ^2/NDF : 169.9/107

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: 16163.636 $\pm$ 3.051 χ^2 /NDF: 3453911.9/31

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

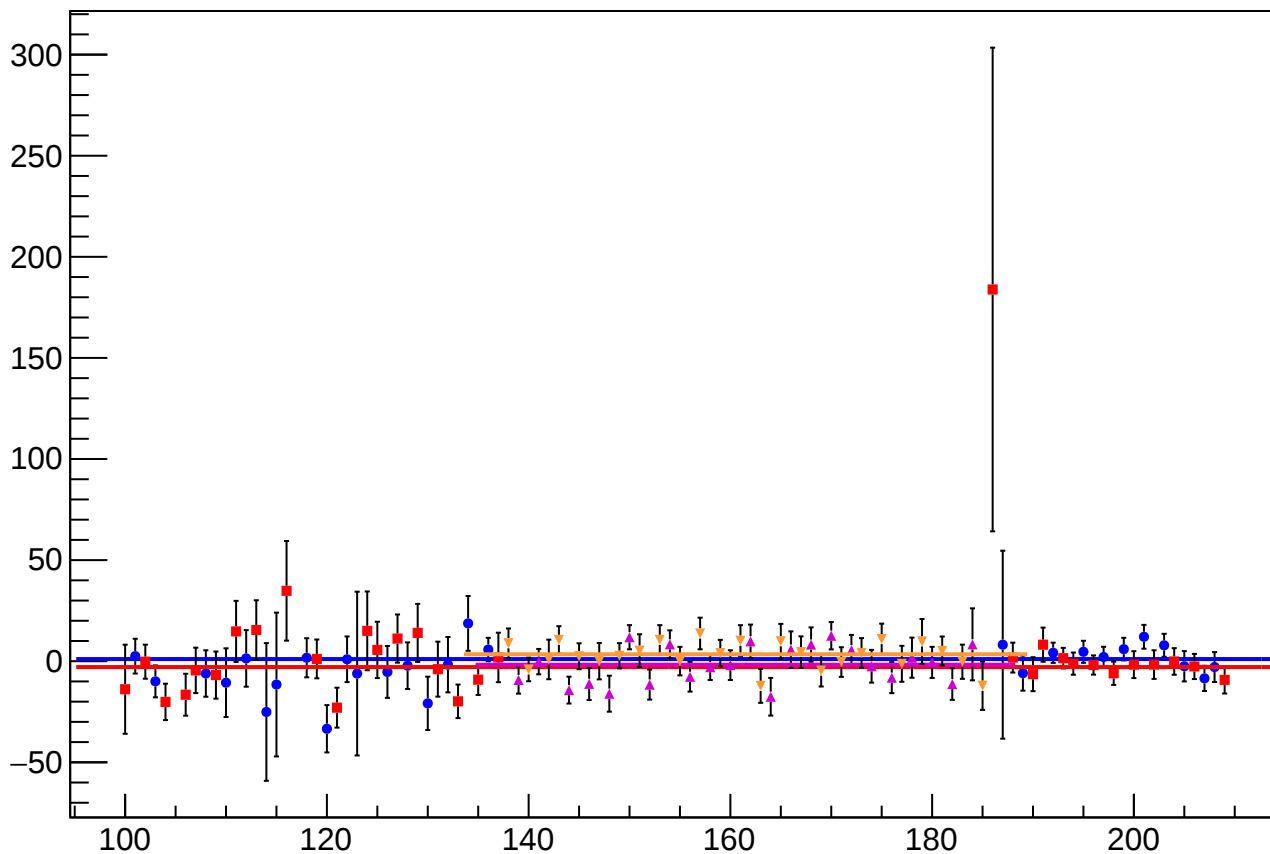
Right: 15871.121 $\pm$ 2.166 χ^2 /NDF: 6511957.8/59

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

Out: 10127.089 $\pm$ 1.315 χ^2 /NDF:8724706.7/56

All: 10148.104 $\pm$ 0.945 χ^2 /NDF: 15965538.0

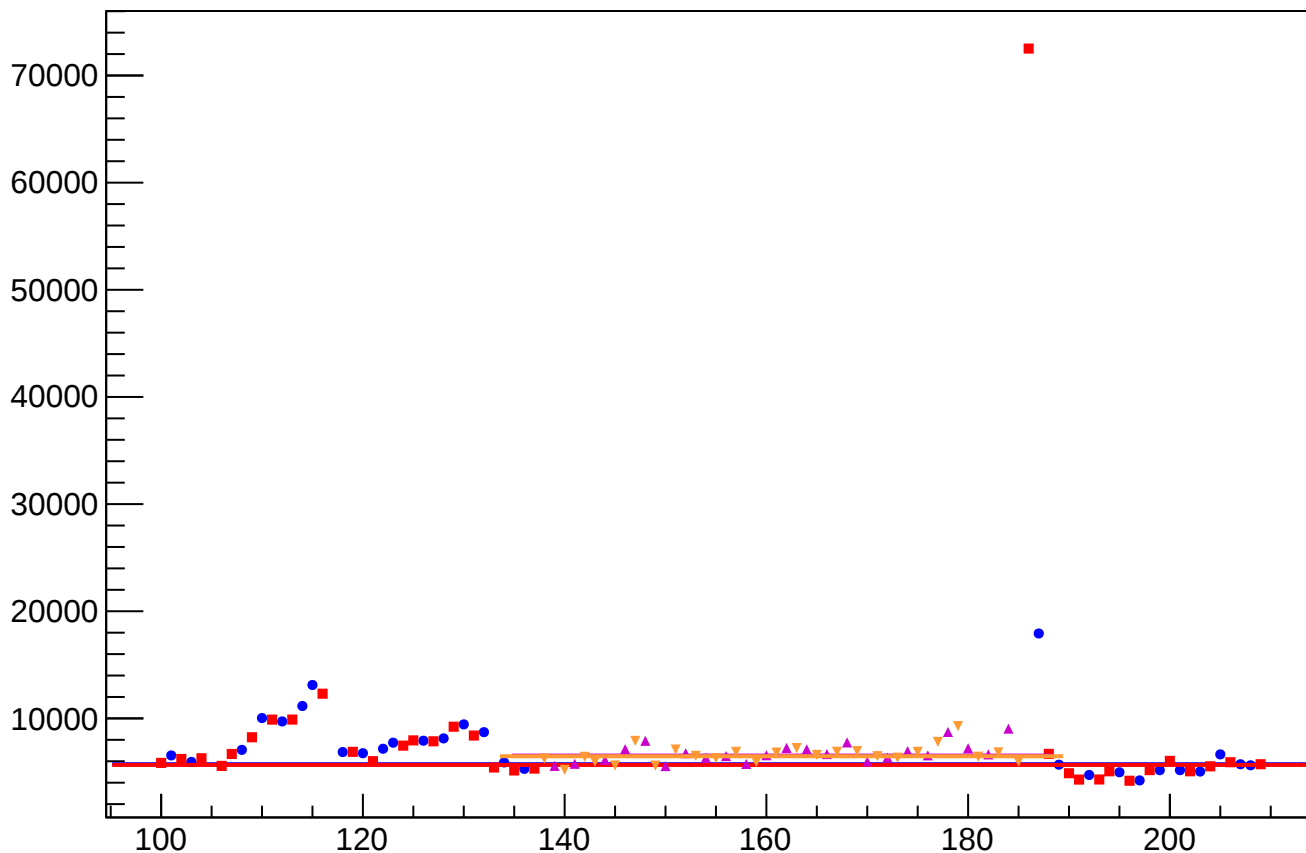
diff_bpm4ecY_mean vs Slug, Sign Corrected



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: -2.888 ± 1.482 $\chi^2/\text{NDF}: 31.5/31$
Left In: -1.734 ± 1.586 $\chi^2/\text{NDF}: 33.6/22$

Left: 0.949 ± 1.099 $\chi^2/\text{NDF}: 55.3/47$
Right: -1.009 ± 1.073 $\chi^2/\text{NDF}: 62.7/59$
In: -0.310 ± 1.110 $\chi^2/\text{NDF}: 63.0/50$
Out: 0.181 ± 1.063 $\chi^2/\text{NDF}: 56.6/56$
All: -0.054 ± 0.768 $\chi^2/\text{NDF}: 119.7/107$

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: 5658.380+/-1.048 χ^2/NDF : 2123787.8/31

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

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

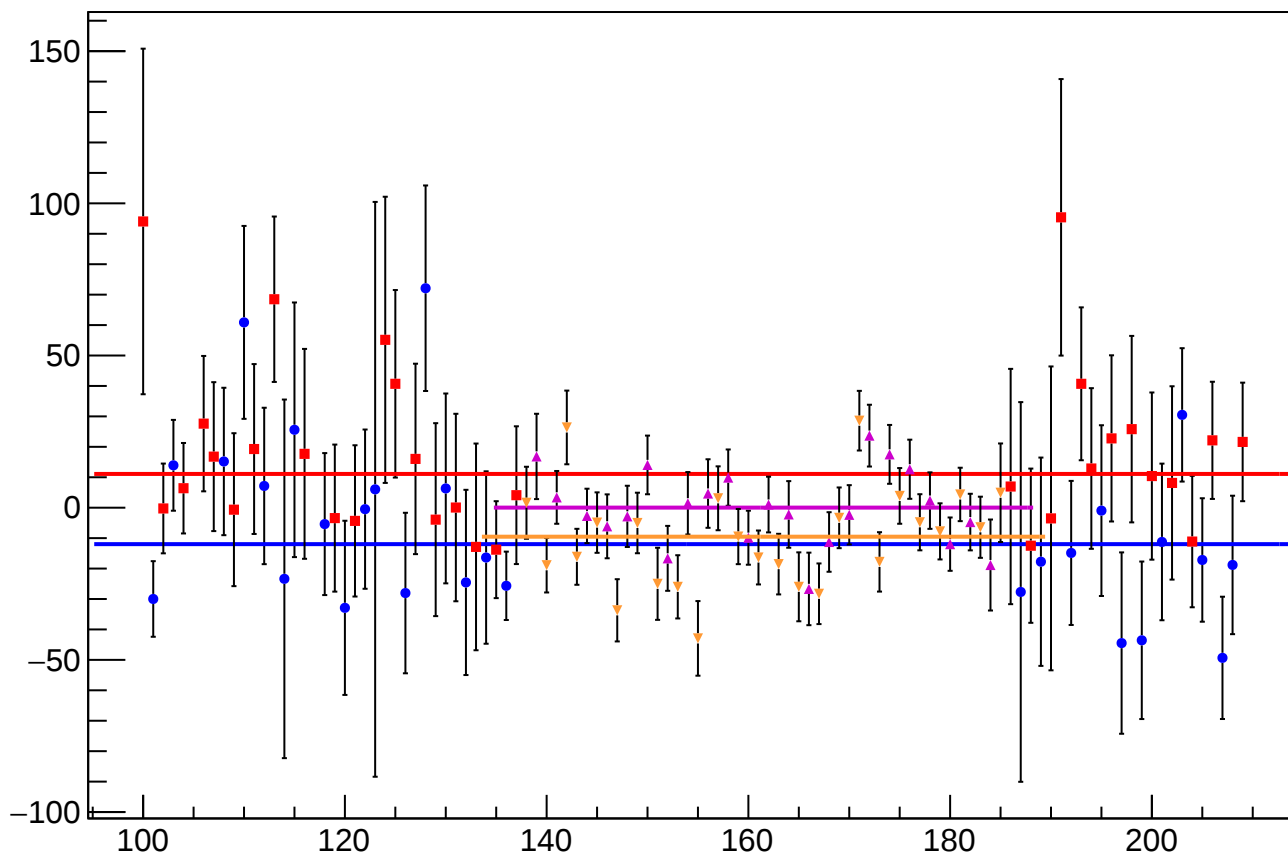
Right: 5689.230+/-0.759 χ^2/NDF : 3624449.1/59

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

Out: 6051.919+/-0.752 χ^2/NDF : 2901347.9/56

All: 6084.092+/-0.543 χ^2/NDF : 5133201.3/10

diff_bpm1X_mean vs Slug, Sign Corrected



Right In: -11.975 ± 4.407 χ^2/NDF : 32.8/27

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

Right Out: 11.092 ± 4.419 χ^2/NDF : 22.1/31

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

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

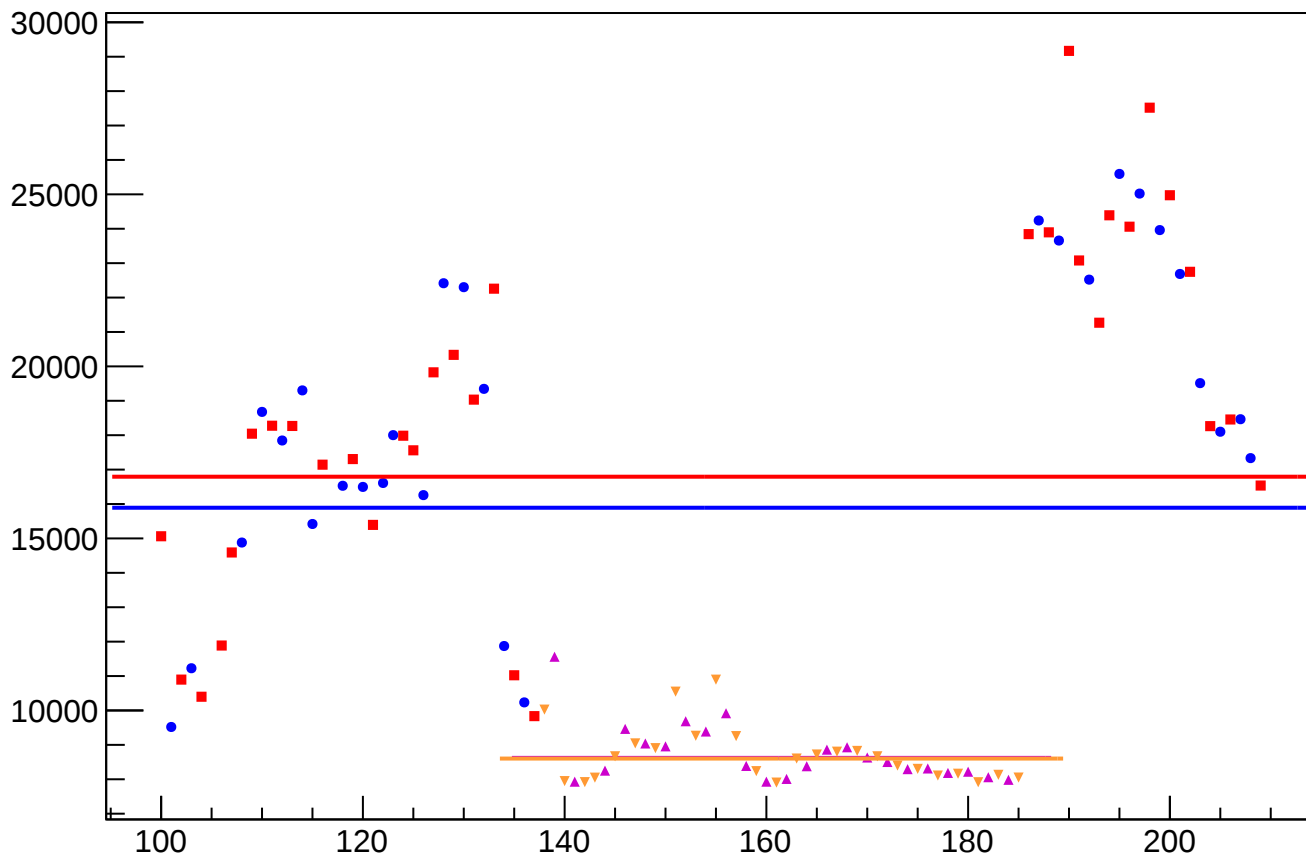
Right: -0.475 ± 3.120 χ^2/NDF : 68.6/59

In: -2.160 ± 1.881 χ^2/NDF : 68.8/50

Out: -5.979 ± 1.834 χ^2/NDF : 99.7/56

All: -4.118 ± 1.313 χ^2/NDF : 170.6/107

diff_bpm1X_rms vs Slug, Sign Corrected



Right In: 15891.788 ± 3.116 $\chi^2/\text{NDF}: 2672987.0/27$

Left Out: 8601.926 ± 1.425 $\chi^2/\text{NDF}: 248903.5/24$

Right Out: 16793.620 ± 3.125 $\chi^2/\text{NDF}: 2662908.5/31$

Left In: 8621.975 ± 1.471 $\chi^2/\text{NDF}: 230824.4/22$

Left: 8611.634 ± 1.023 $\chi^2/\text{NDF}: 479823.8/47$

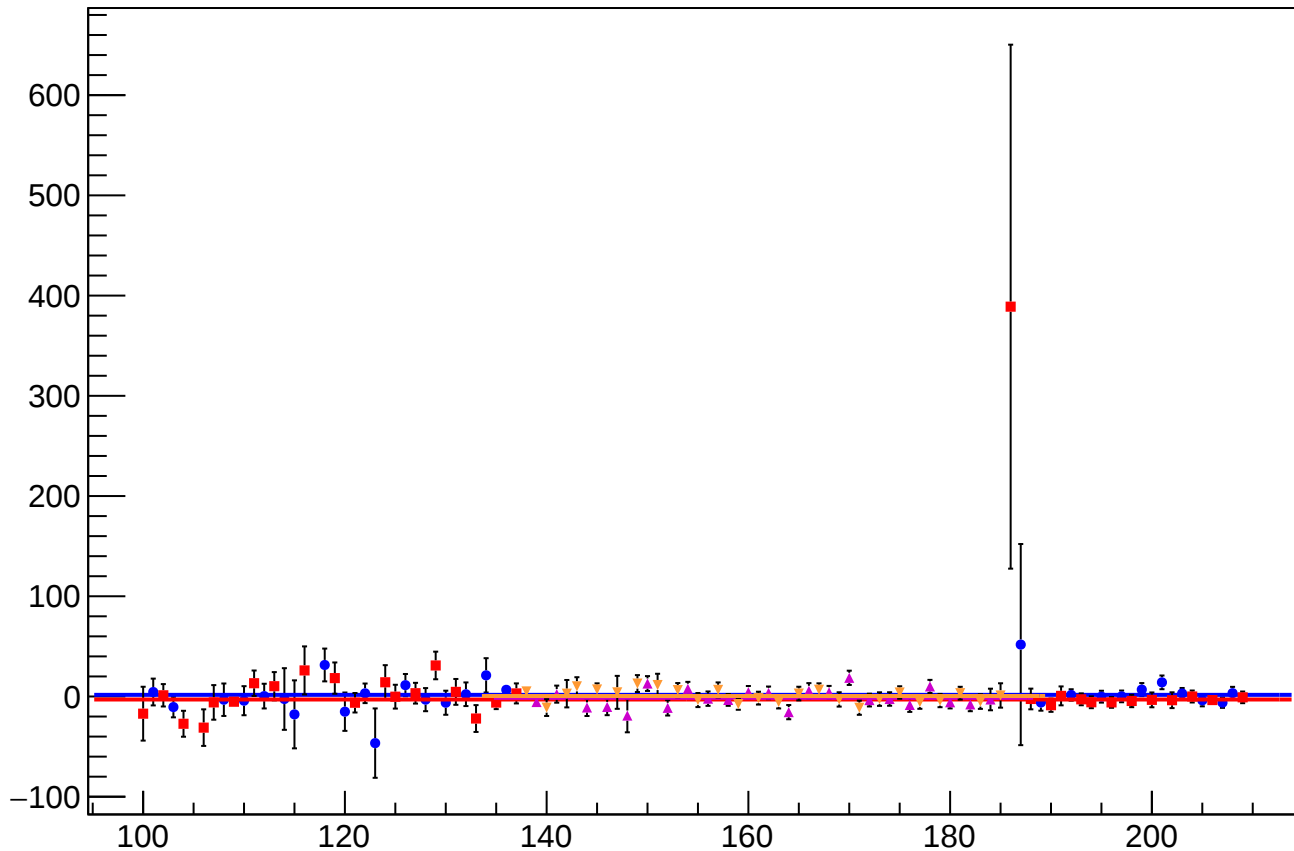
Right: 16341.399 ± 2.206 $\chi^2/\text{NDF}: 5377658.2/59$

In: 9946.436 ± 1.330 $\chi^2/\text{NDF}: 7355521.6/50$

Out: 10012.063 ± 1.297 $\chi^2/\text{NDF}: 8600536.6/56$

All: 9980.084 ± 0.928 $\chi^2/\text{NDF}: 15957306.6/103$

diff_bpm1Y_mean vs Slug, Sign Corrected



Right In: 1.635 $\pm$ 1.577 χ^2/NDF : 20.4/27

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

Right Out: -3.004 $\pm$ 1.474 χ^2/NDF : 27.1/31

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

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

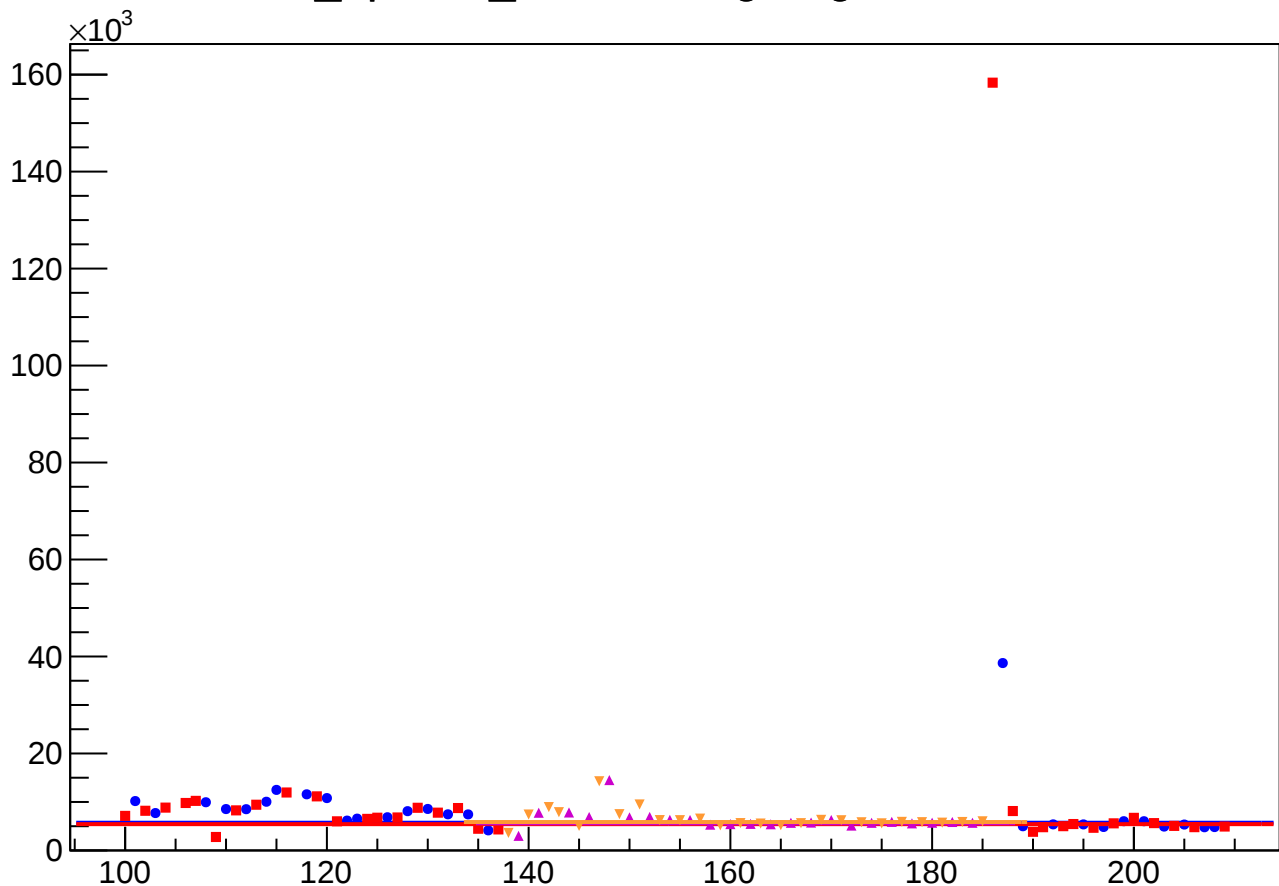
Right: -0.841 $\pm$ 1.077 χ^2/NDF : 52.1/59

In: 0.001 $\pm$ 1.049 χ^2/NDF : 55.4/50

Out: -1.196 $\pm$ 1.022 χ^2/NDF : 49.6/56

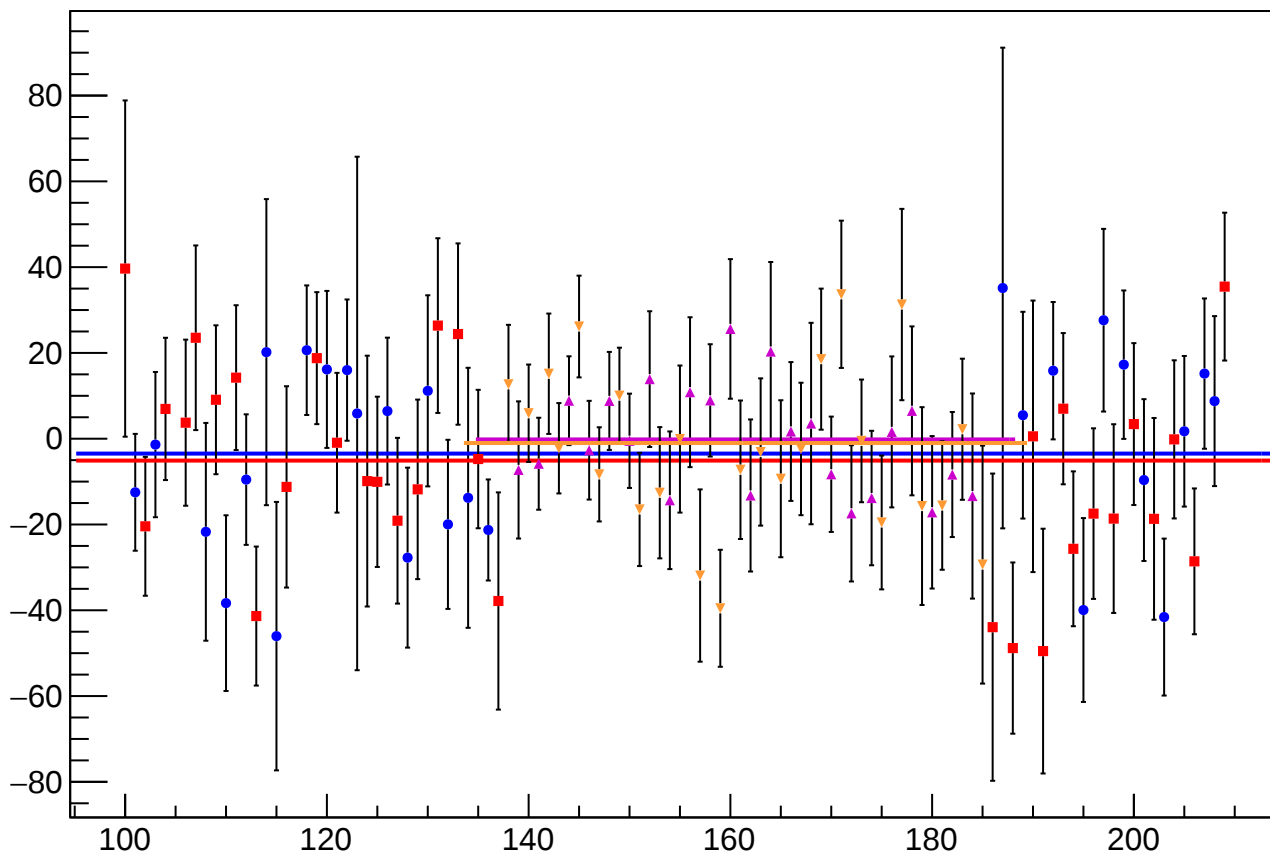
All: -0.613 $\pm$ 0.732 χ^2/NDF : 105.6/107

diff_bpm1Y_rms vs Slug, Sign Corrected



Right In: 5717.465+/-1.115	χ^2/NDF : 2109510.1/27	Left: 5726.555+/-0.706	χ^2/NDF : 3815425.5/47
Left Out: 5858.642+/-1.004	χ^2/NDF : 1691344.1/24	Right: 5560.841+/-0.761	χ^2/NDF : 5594767.2/59
Right Out: 5424.030+/-1.042	χ^2/NDF : 3448280.1/31	In: 5650.305+/-0.742	χ^2/NDF : 4205776.0/50
Left In: 5596.879+/-0.994	χ^2/NDF : 2089750.1/22	Out: 5649.494+/-0.723	χ^2/NDF : 5229880.6/56
		All: 5649.889+/-0.518	χ^2/NDF : 9435657.2/10

diff_bpm11X_mean vs Slug, Sign Corrected



Right In: -3.470 ± 3.596 $\chi^2/\text{NDF}: 31.2/27$

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

Right Out: -5.099 ± 3.474 $\chi^2/\text{NDF}: 40.0/31$

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

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

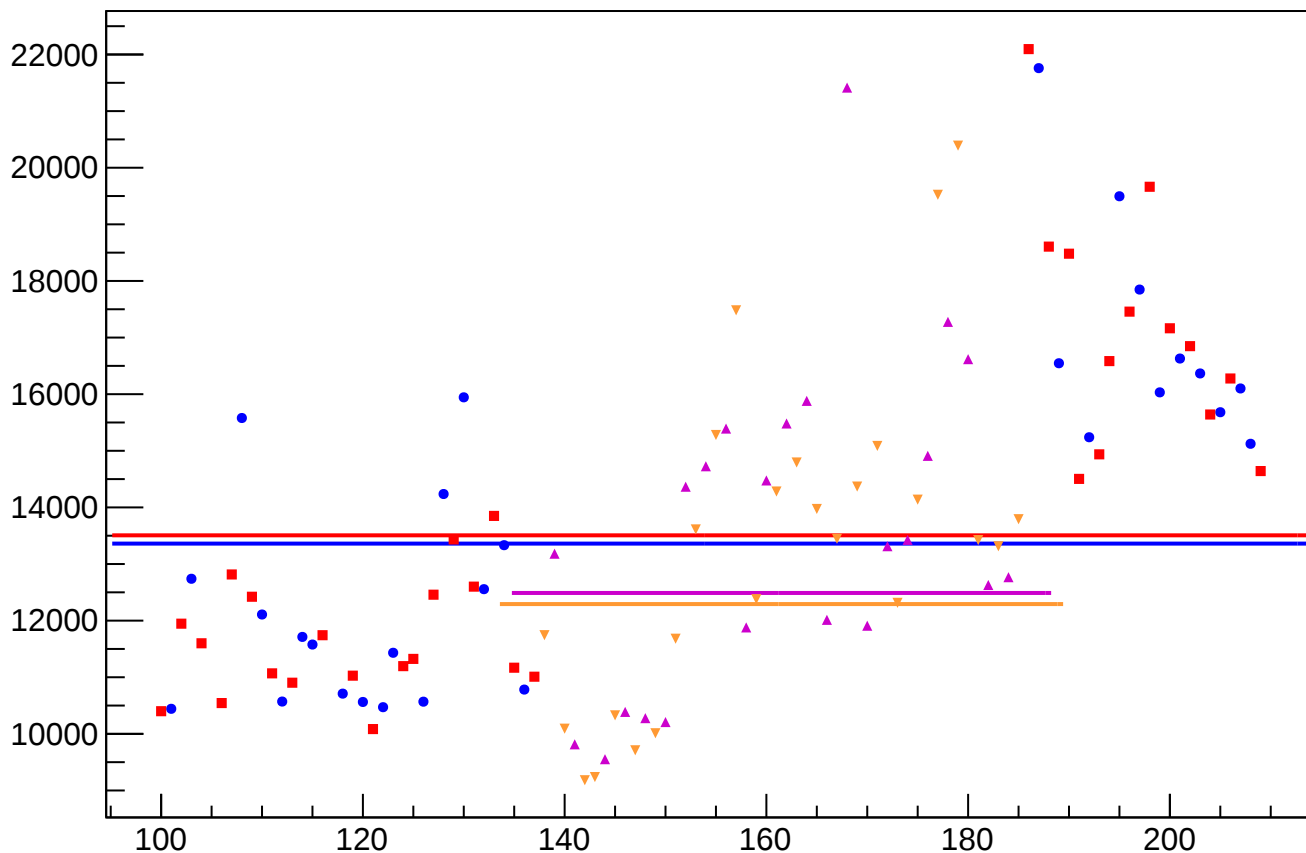
Right: -4.312 ± 2.498 $\chi^2/\text{NDF}: 71.3/59$

In: -1.561 ± 2.334 $\chi^2/\text{NDF}: 44.1/50$

Out: -2.716 ± 2.245 $\chi^2/\text{NDF}: 74.2/56$

All: -2.161 ± 1.618 $\chi^2/\text{NDF}: 118.5/107$

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: 13436.293+/-1.767

χ^2/NDF : 2448984.6/59

Right Out: 13506.841+/-2.456

χ^2/NDF : 1275908.8/31

In: 12856.059+/-1.650

χ^2/NDF : 2593920.4/50

Out: 12799.649+/-1.587

χ^2/NDF : 2920772.0/56

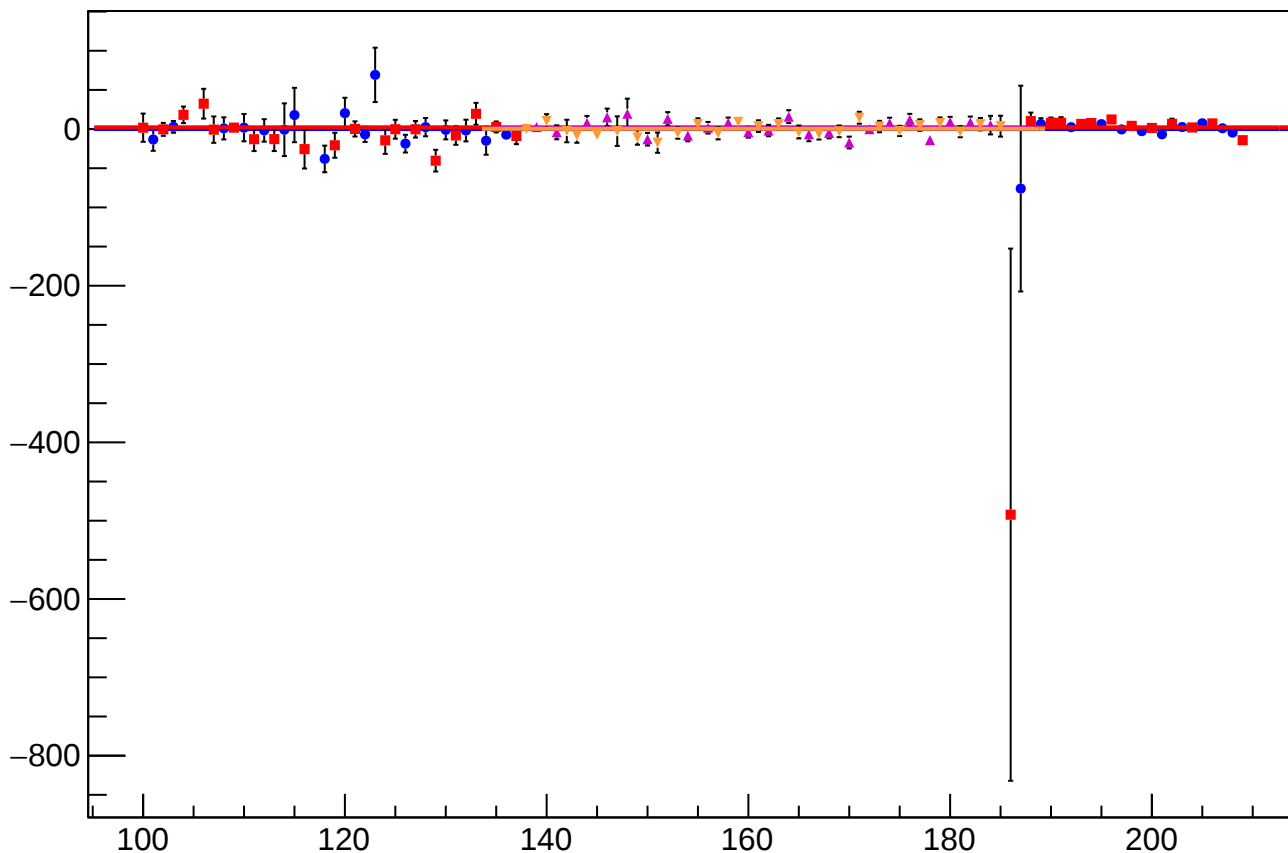
Left In: 12488.821+/-2.169

χ^2/NDF : 1354485.4/22

All: 12826.762+/-1.144

χ^2/NDF : 5515299.4/100

diff_bpm11Y_mean vs Slug, Sign Corrected



Right In: 0.015 ± 1.344 $\chi^2/\text{NDF}: 27.0/27$

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

Right Out: 2.247 ± 1.278 $\chi^2/\text{NDF}: 52.4/31$

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

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

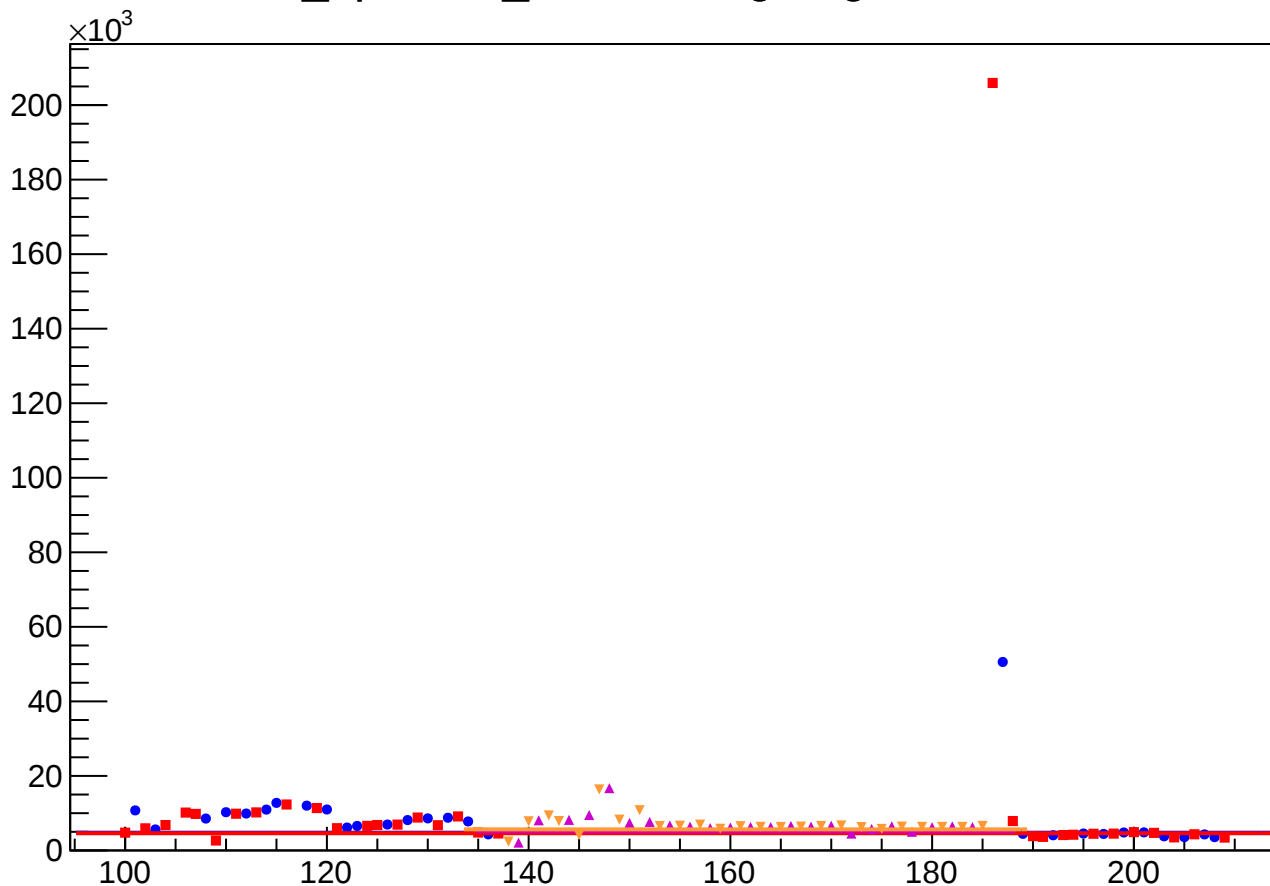
Right: 1.187 ± 0.926 $\chi^2/\text{NDF}: 80.9/59$

In: 0.627 ± 0.965 $\chi^2/\text{NDF}: 61.4/50$

Out: 1.434 ± 0.954 $\chi^2/\text{NDF}: 72.7/56$

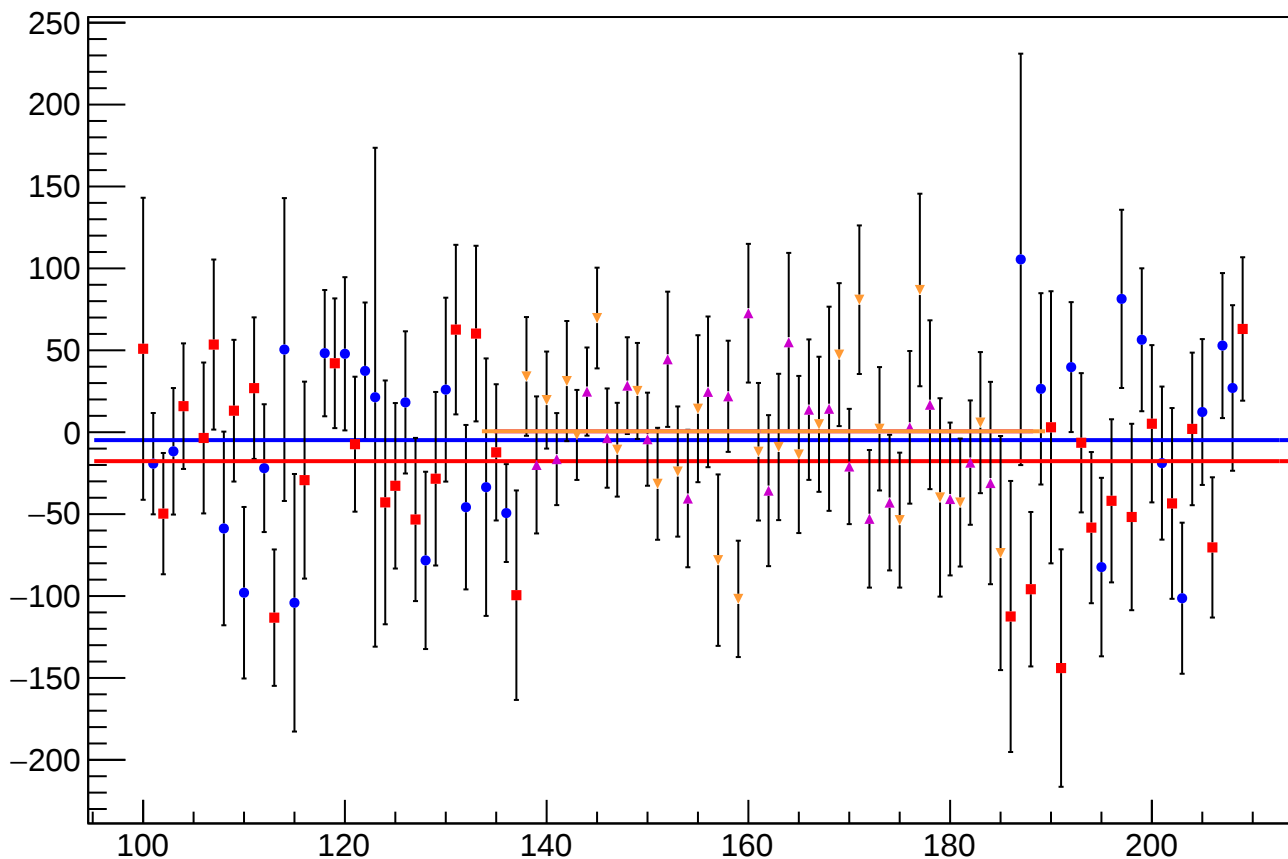
All: 1.035 ± 0.678 $\chi^2/\text{NDF}: 134.4/107$

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: 4684.348 $\pm$ 0.655	χ^2/NDF : 7090459.5/59
Right Out: 4615.939 $\pm$ 0.904	χ^2/NDF : 3901185.3/31	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: 5075.876 $\pm$ 0.675	χ^2/NDF : 8611085.9/56
		All: 5020.585 $\pm$ 0.480	χ^2/NDF : 17246864.2/100

diff_bpm12X_mean vs Slug, Sign Corrected



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

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

Right Out: -17.665 ± 8.664 χ^2/NDF : 34.3/31

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

Left: 0.572 ± 5.549 χ^2/NDF : 45.3/47

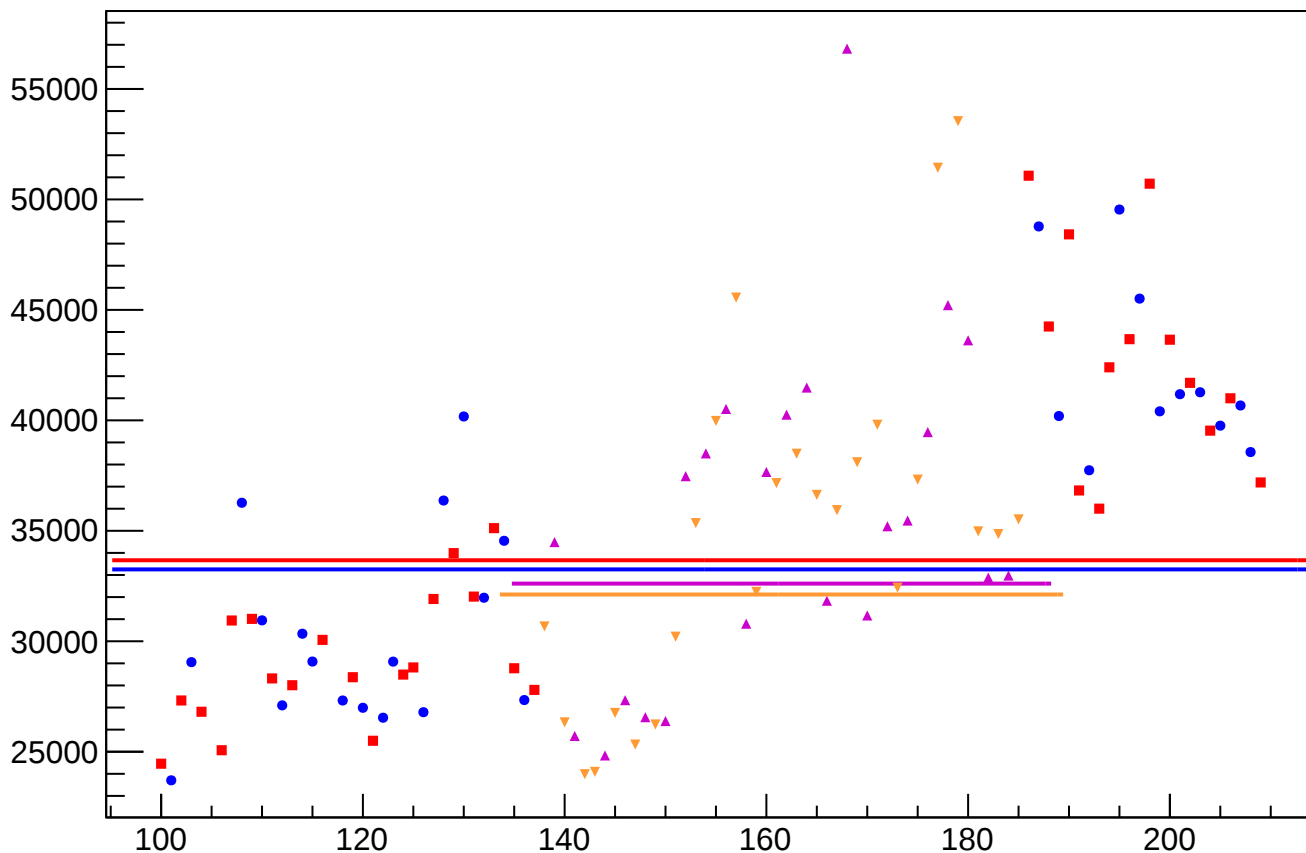
Right: -11.462 ± 6.229 χ^2/NDF : 67.0/59

In: -1.829 ± 5.974 χ^2/NDF : 46.1/50

Out: -7.461 ± 5.752 χ^2/NDF : 67.8/56

All: -4.752 ± 4.144 χ^2/NDF : 114.3/107

diff_bpm12X_rms vs Slug, Sign Corrected



Right In: 33252.798 $\pm$ 6.338

χ^2/NDF : 1236586.6/27

Left Out: 32117.184 $\pm$ 5.438

χ^2/NDF : 1536740.0/24

Right Out: 33667.108 $\pm$ 6.126

χ^2/NDF : 1315489.8/31

Left In: 32610.108 $\pm$ 5.667

χ^2/NDF : 1398475.8/22

Left: 32353.483 $\pm$ 3.924

χ^2/NDF : 2939154.5/47

Right: 33466.984 $\pm$ 4.405

χ^2/NDF : 2554285.6/59

In: 32895.656 $\pm$ 4.225

χ^2/NDF : 2640776.6/50

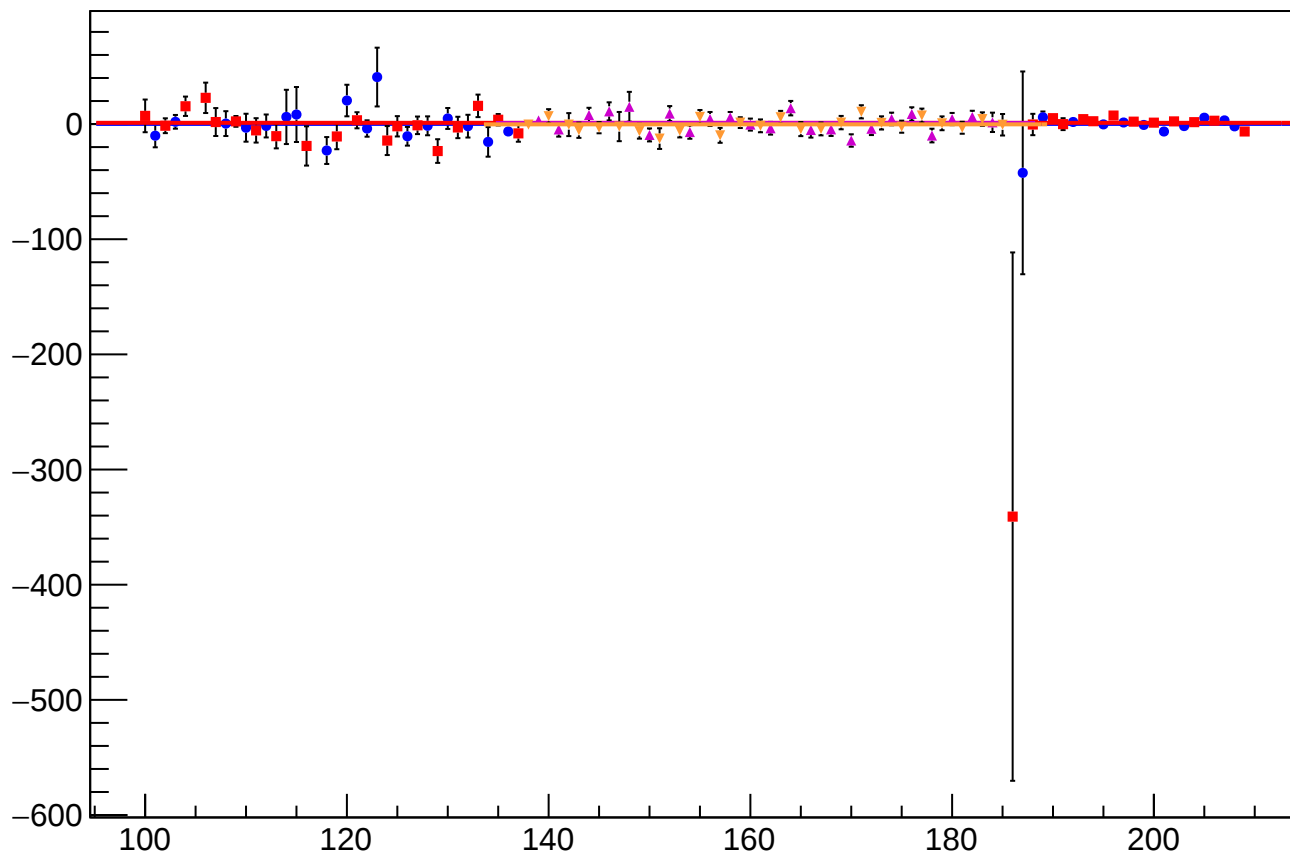
Out: 32800.228 $\pm$ 4.067

χ^2/NDF : 2888028.9/56

All: 32846.128 $\pm$ 2.930

χ^2/NDF : 5529070.4/100

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: 1.068 ± 0.820 $\chi^2/\text{NDF}: 43.2/31$

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

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

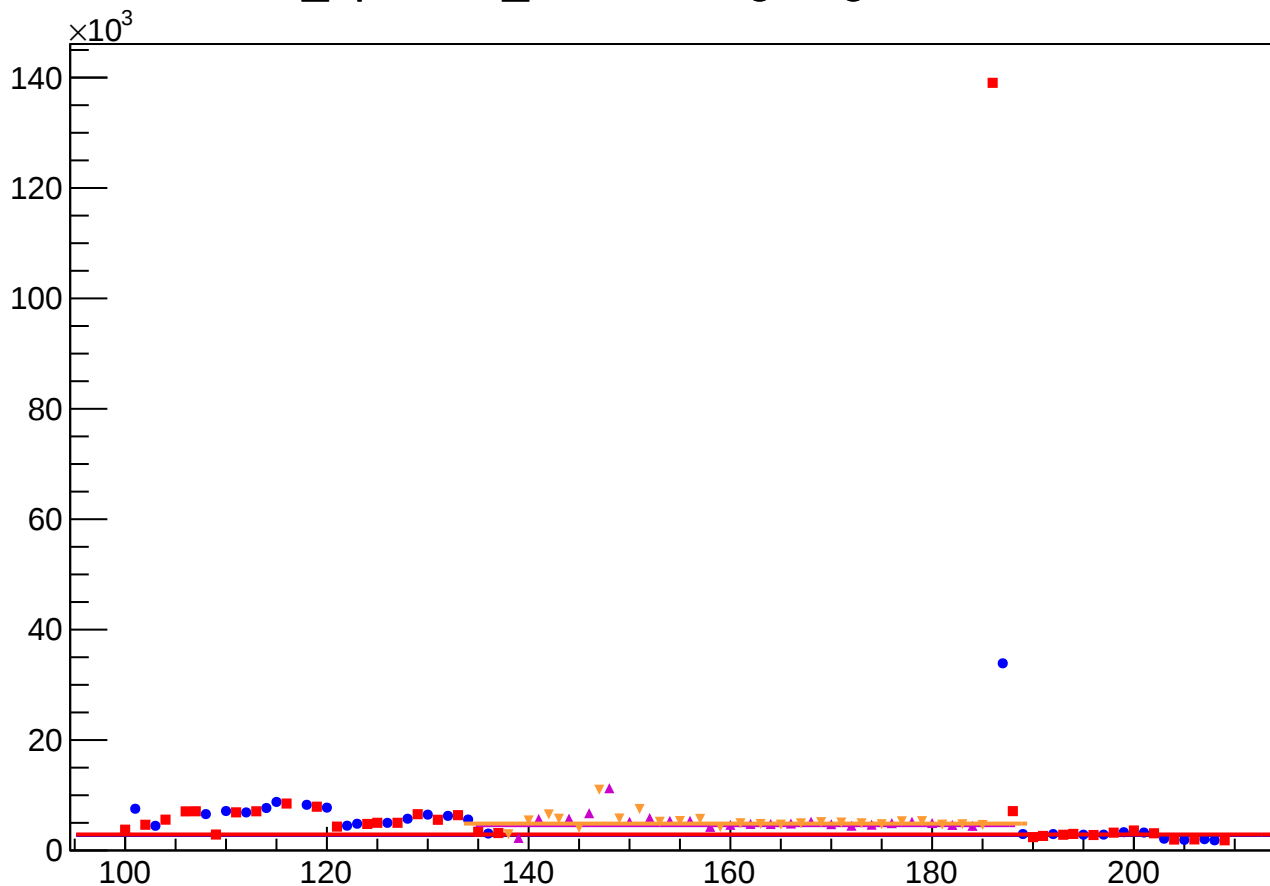
Right: 0.605 ± 0.580 $\chi^2/\text{NDF}: 76.5/59$

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

Out: 0.633 ± 0.672 $\chi^2/\text{NDF}: 62.1/56$

All: 0.519 ± 0.474 $\chi^2/\text{NDF}: 131.2/107$

diff_bpm12Y_rms vs Slug, Sign Corrected



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

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

Right Out: 2893.818 ± 0.580 $\chi^2/\text{NDF}: 5521073.8/31$

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

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

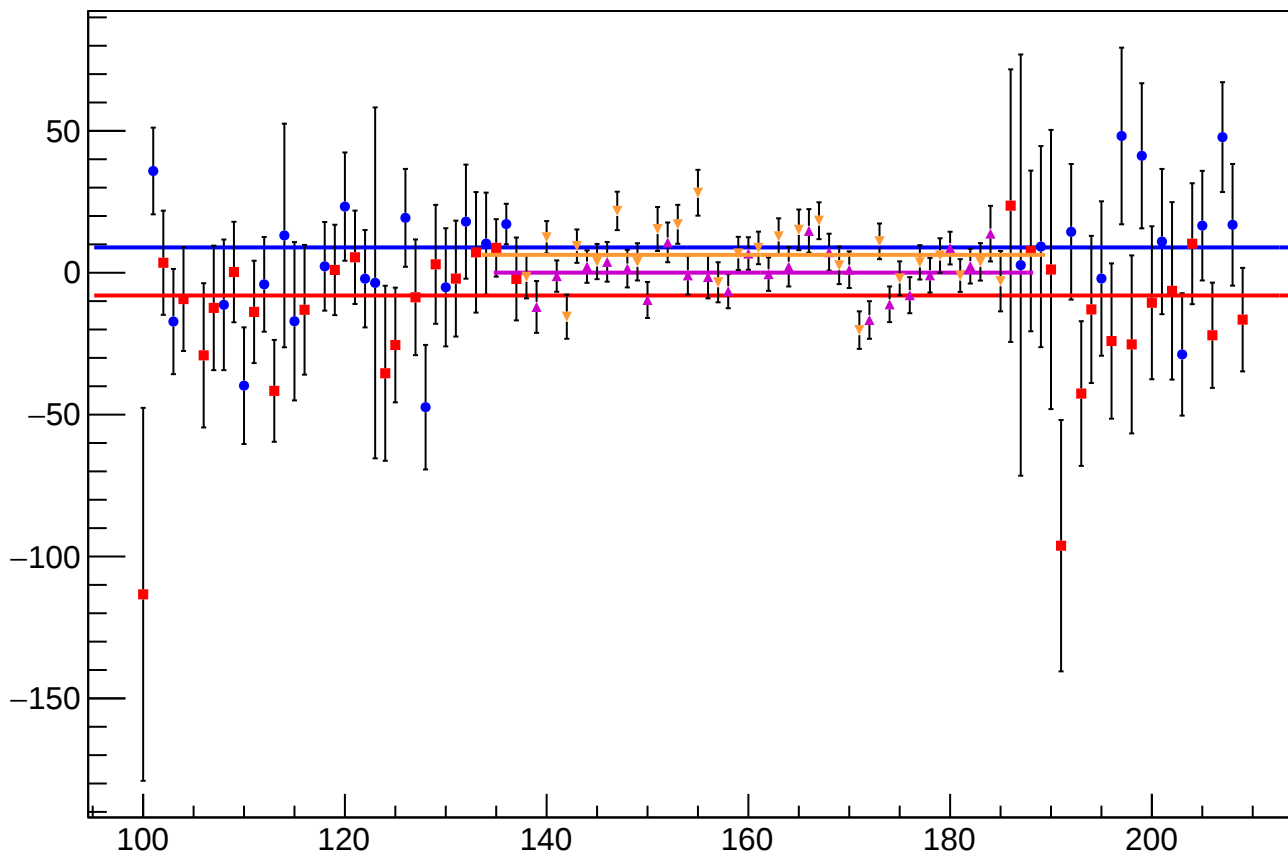
Right: 2847.639 ± 0.410 $\chi^2/\text{NDF}: 10473396.8/59$

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

Out: 3541.951 ± 0.475 $\chi^2/\text{NDF}: 10831542.9/56$

All: 3470.141 ± 0.335 $\chi^2/\text{NDF}: 21460650.7/100$

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: -8.016 ± 3.665 $\chi^2/\text{NDF}: 22.7/31$

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

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

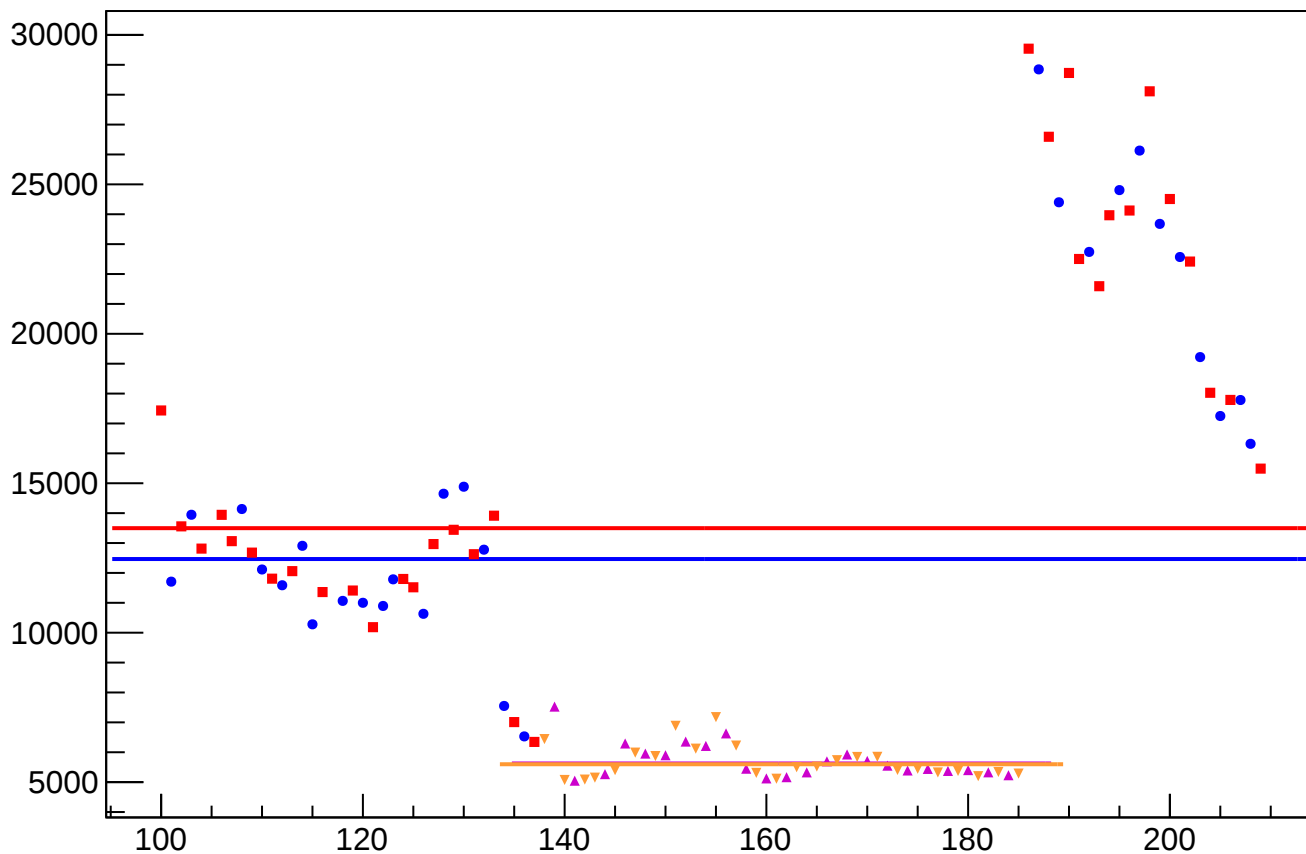
Right: 0.661 ± 2.560 $\chi^2/\text{NDF}: 67.5/59$

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

Out: 4.674 ± 1.236 $\chi^2/\text{NDF}: 92.9/56$

All: 2.966 ± 0.885 $\chi^2/\text{NDF}: 166.2/107$

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: 13497.182 $\pm$ 2.591 χ^2 /NDF: 4417169.1/31

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

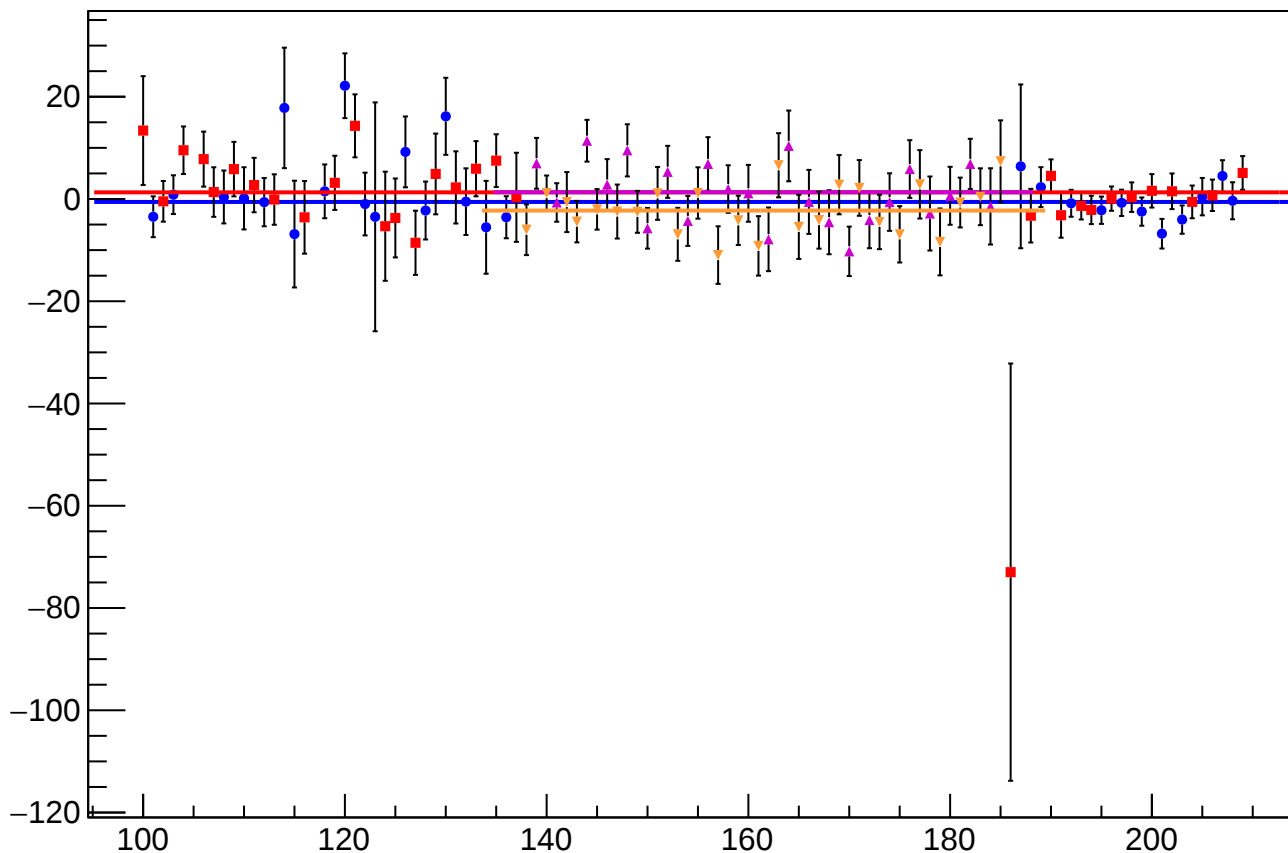
Right: 12968.388 $\pm$ 1.810 χ^2 /NDF: 8906708.5/59

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

Out: 6496.828 $\pm$ 0.874 χ^2 /NDF:12934814.9/56

All: 6491.767 $\pm$ 0.626 χ^2 /NDF: 24006466.9/112

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: 1.298 ± 0.748 χ^2/NDF : 28.4/31

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

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

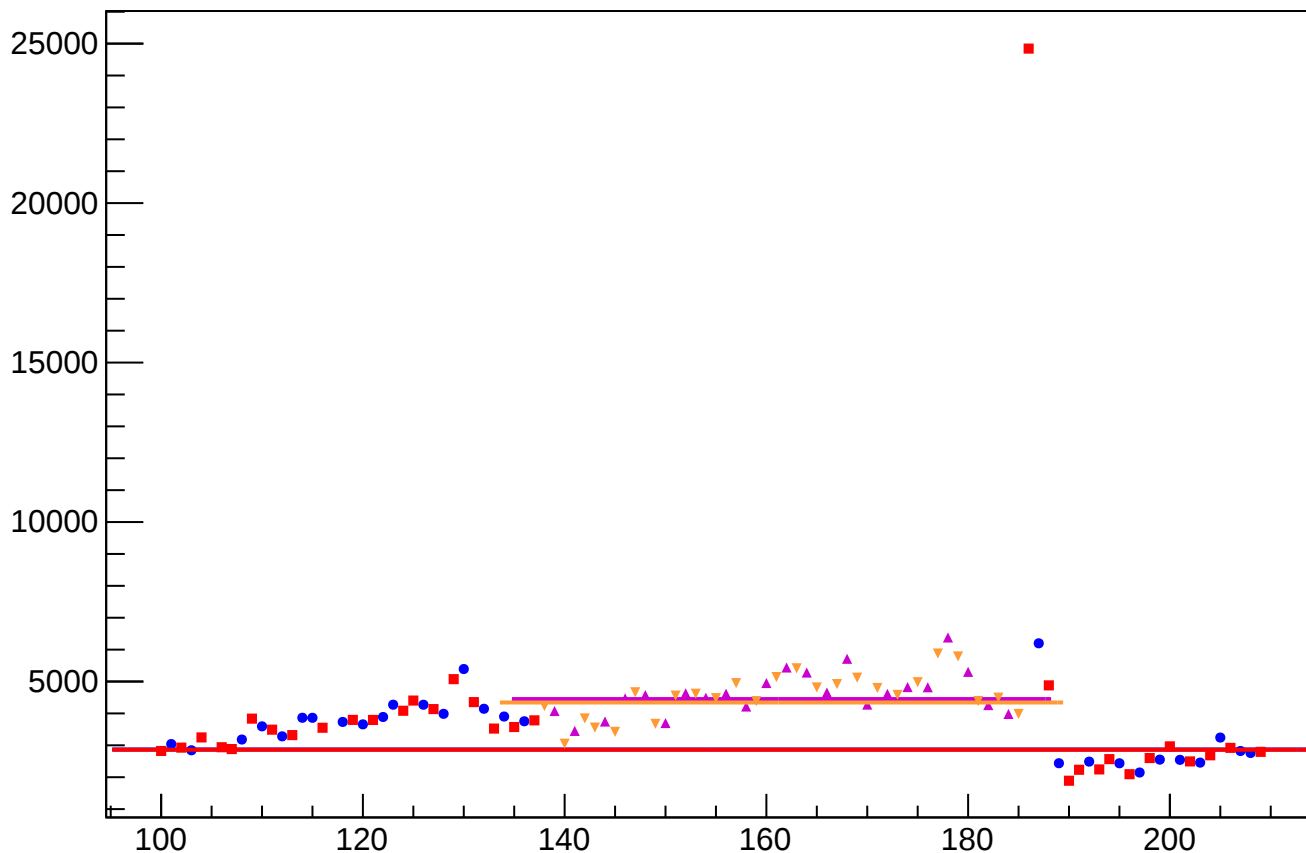
Right: 0.396 ± 0.539 χ^2/NDF : 66.4/59

In: 0.071 ± 0.632 χ^2/NDF : 67.6/50

Out: 0.068 ± 0.606 χ^2/NDF : 51.7/56

All: 0.070 ± 0.437 χ^2/NDF : 119.4/107

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: 2860.959+/-0.529

χ^2/NDF : 2265079.5/31

Left In: 4450.007+/-0.765

χ^2/NDF : 693229.8/22

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

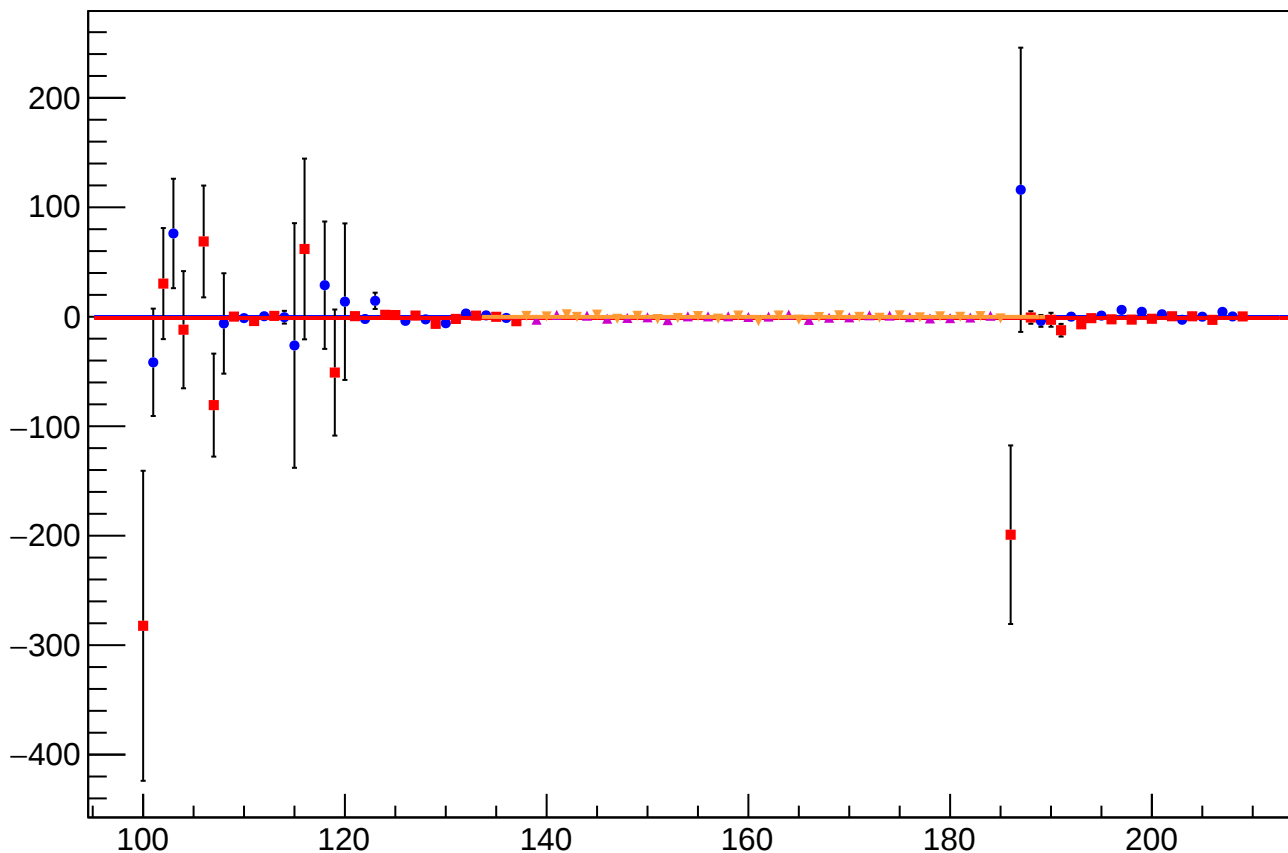
Right: 2864.948+/-0.381 χ^2/NDF : 3560146.0/59

In: 3407.747+/-0.447 χ^2/NDF : 4802719.7/50

Out: 3372.863+/-0.428 χ^2/NDF : 5966167.2/56

All: 3389.572+/-0.309 χ^2/NDF : 10772066.3/111

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: -1.124 ± 0.568 χ^2/NDF : 36.0/31

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

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

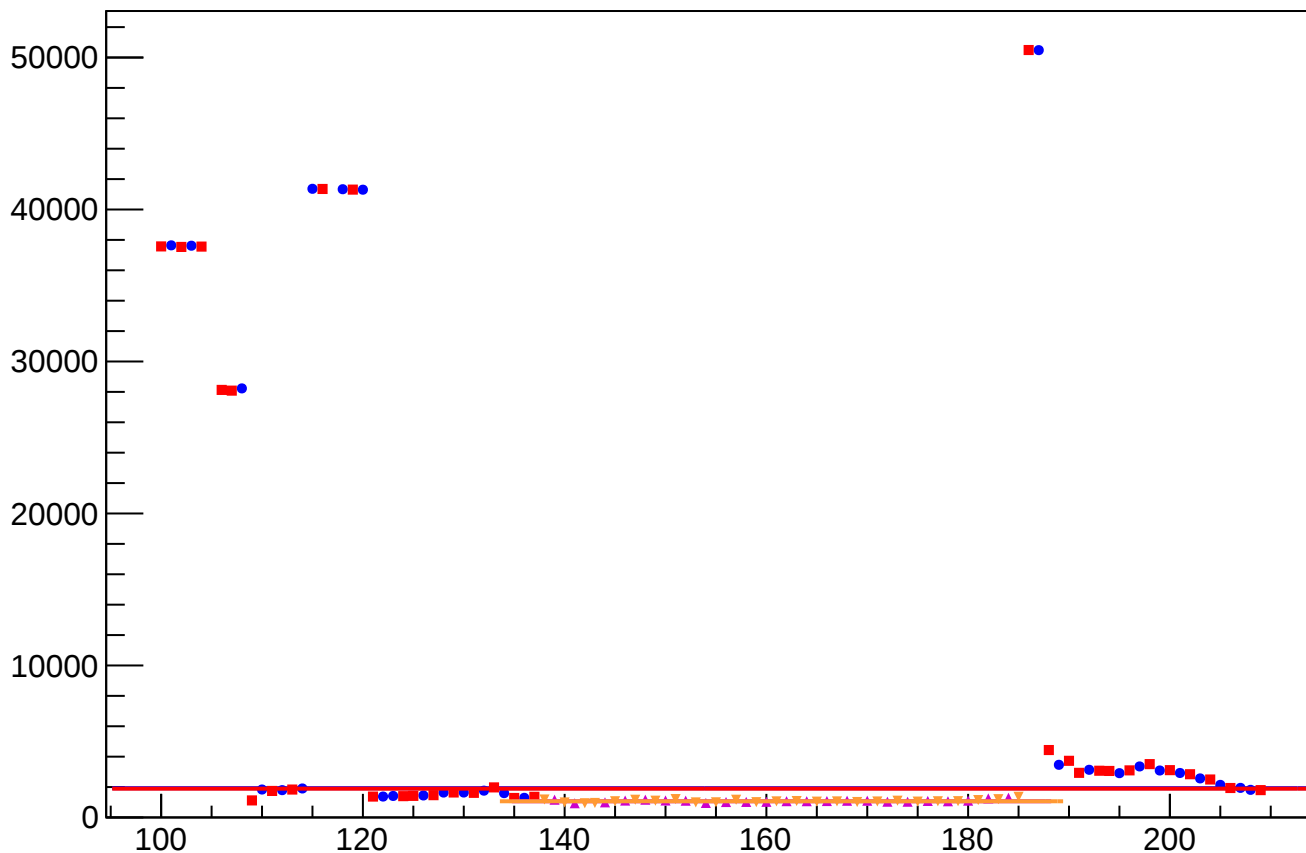
Right: -0.702 ± 0.407 χ^2/NDF : 68.7/59

In: -0.259 ± 0.235 χ^2/NDF : 58.8/50

Out: -0.258 ± 0.228 χ^2/NDF : 73.2/56

All: -0.258 ± 0.164 χ^2/NDF : 132.0/107

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: 1894.437+/-0.402

χ^2/NDF : 8344691.4/31

Left In: 1066.255+/-0.182

χ^2/NDF : 164232.1/22

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

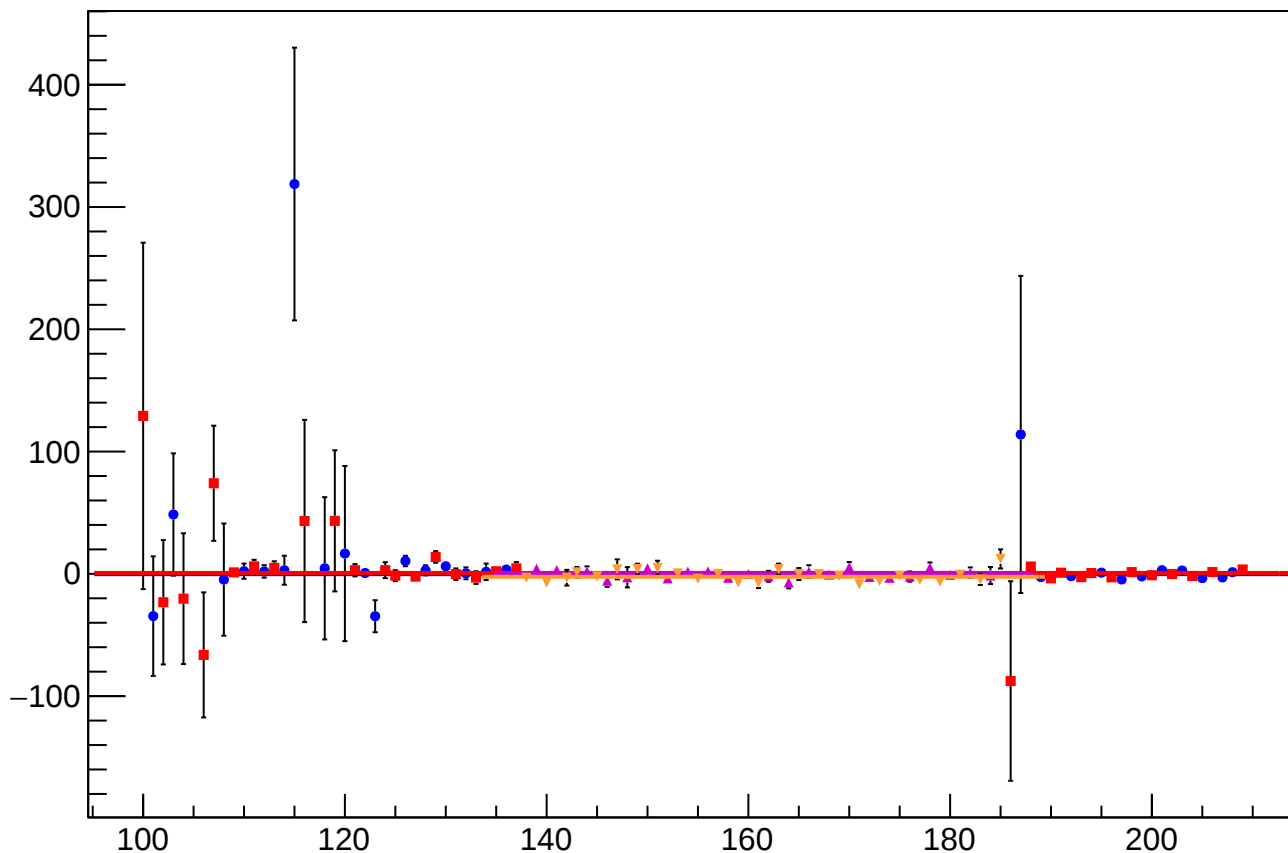
Right: 1909.268+/-0.288 χ^2/NDF : 15271796.5/59

In: 1205.477+/-0.166 χ^2/NDF : 10709516.3/50

Out: 1198.417+/-0.161 χ^2/NDF : 12108890.0/56

All: 1201.839+/-0.116 χ^2/NDF : 22819334.8/100

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: 0.740 ± 0.553 $\chi^2/\text{NDF}: 34.4/31$

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

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

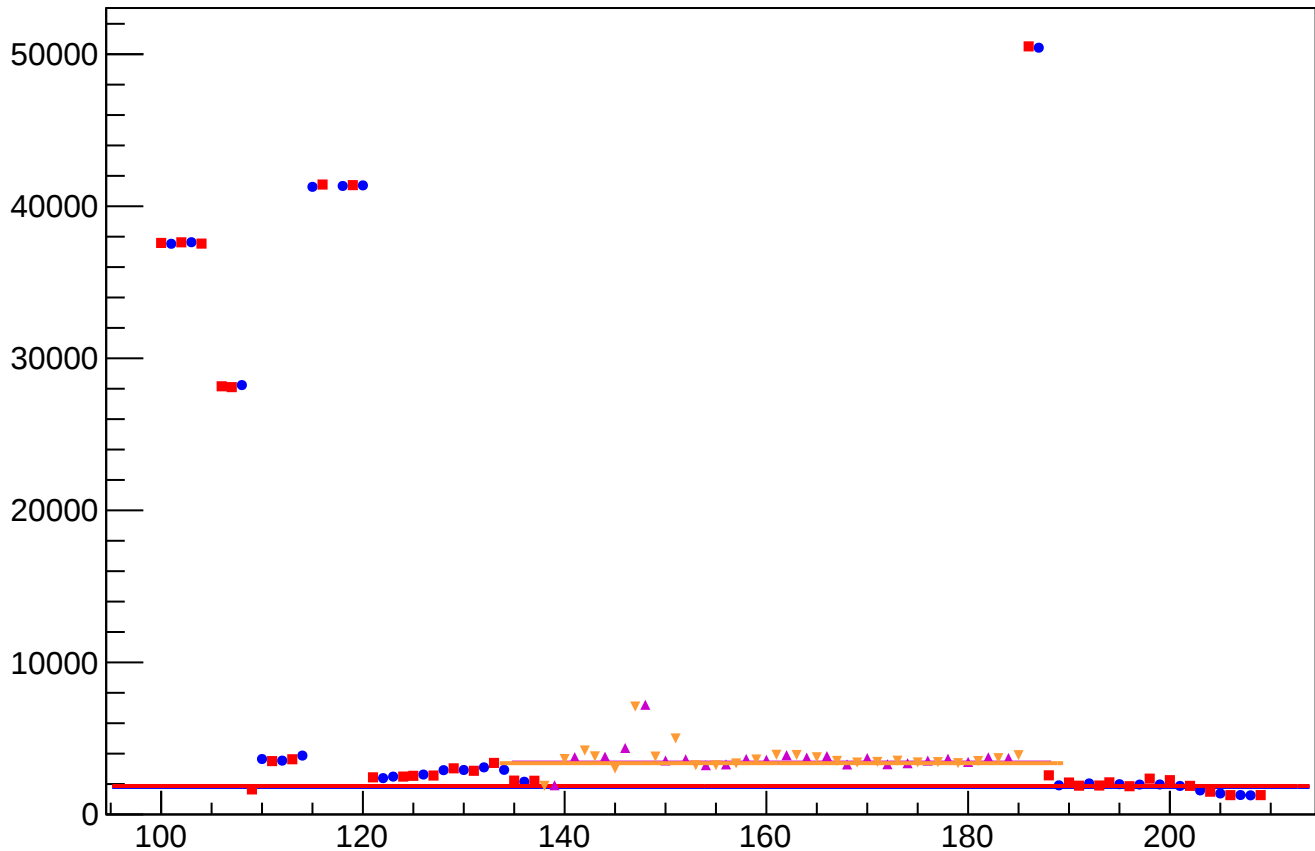
Right: 0.243 ± 0.389 $\chi^2/\text{NDF}: 85.6/59$

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

Out: -0.263 ± 0.457 $\chi^2/\text{NDF}: 66.0/56$

All: -0.149 ± 0.324 $\chi^2/\text{NDF}: 131.7/107$

diff_bpm1p02bY_rms vs Slug, Sign Corrected



Right In: 1809.973 ± 0.388 χ^2/NDF : 6705560.7/27

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

Right Out: 1872.255 ± 0.391 χ^2/NDF : 7277261.8/31

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

Left: 3391.680 ± 0.413 χ^2/NDF : 3093609.1/47

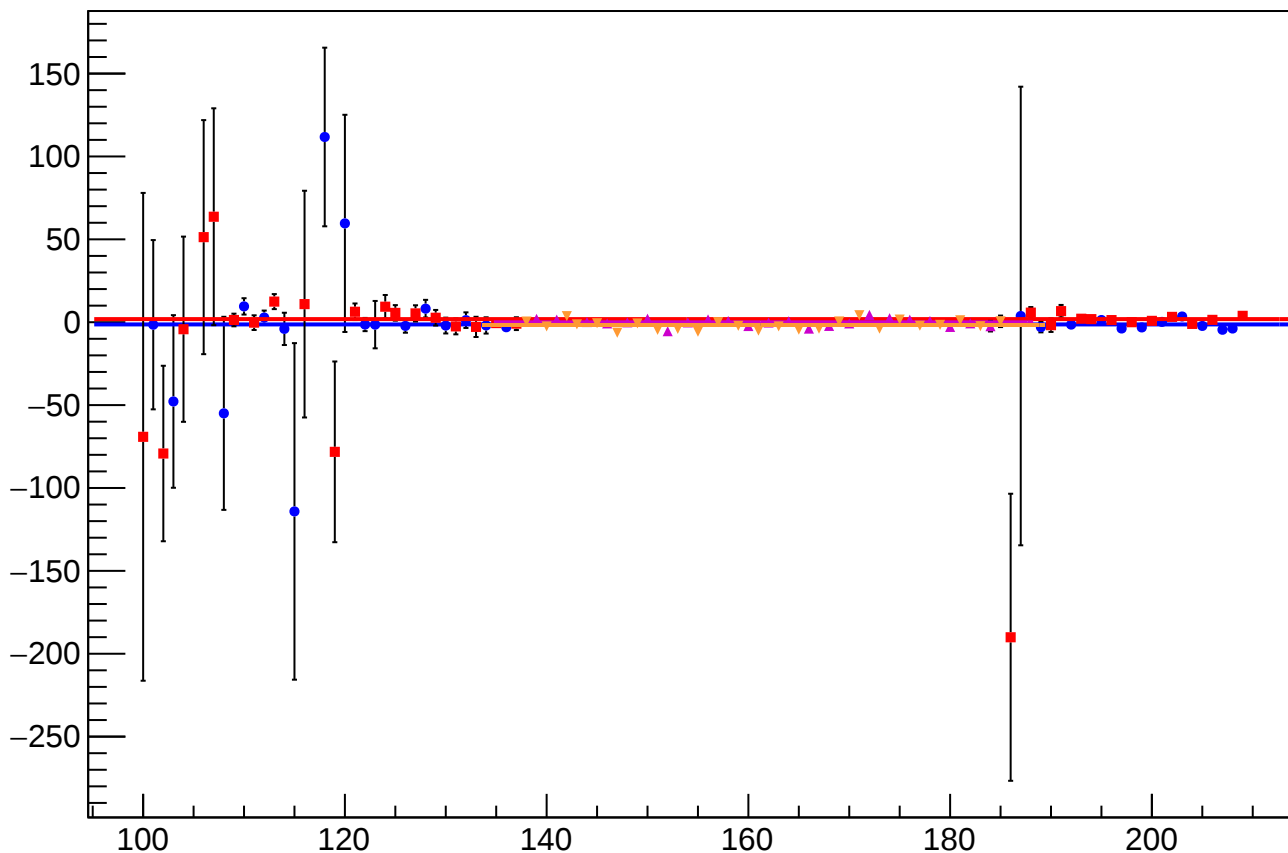
Right: 1840.866 ± 0.275 χ^2/NDF : 13995628.2/59

In: 2286.179 ± 0.325 χ^2/NDF : 13217181.2/50

Out: 2348.414 ± 0.323 χ^2/NDF : 13614741.8/56

All: 2317.499 ± 0.229 χ^2/NDF : 26850383.0/100

diff_bpm1p03aX_mean vs Slug, Sign Corrected



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

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

Right Out: 1.884 ± 0.629 χ^2/NDF : 29.5/31

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

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

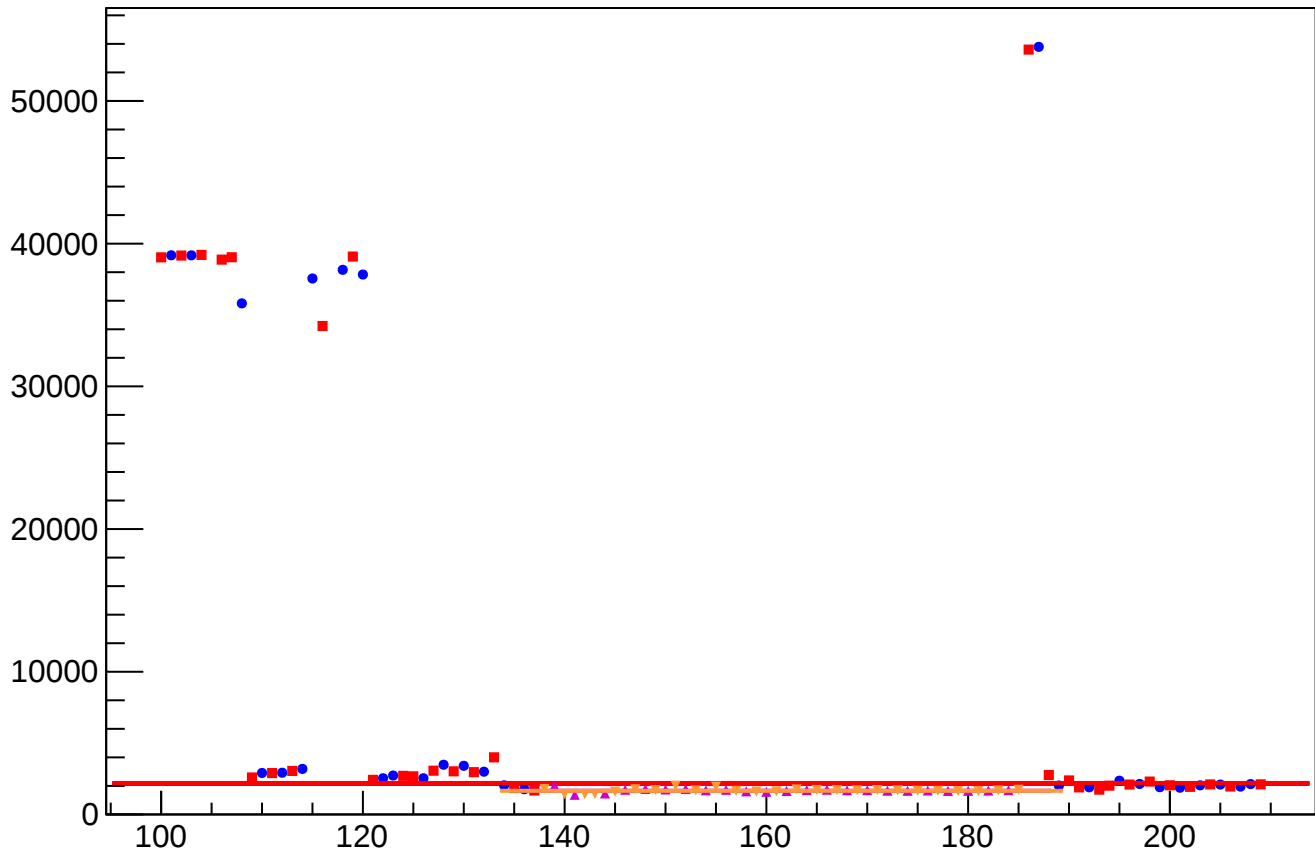
Right: 0.288 ± 0.446 χ^2/NDF : 72.0/59

In: -0.432 ± 0.339 χ^2/NDF : 60.6/50

Out: -0.692 ± 0.330 χ^2/NDF : 98.3/56

All: -0.565 ± 0.236 χ^2/NDF : 159.2/107

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: 2207.497 $\pm$ 0.445 χ^2/NDF : 6065940.0/31

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

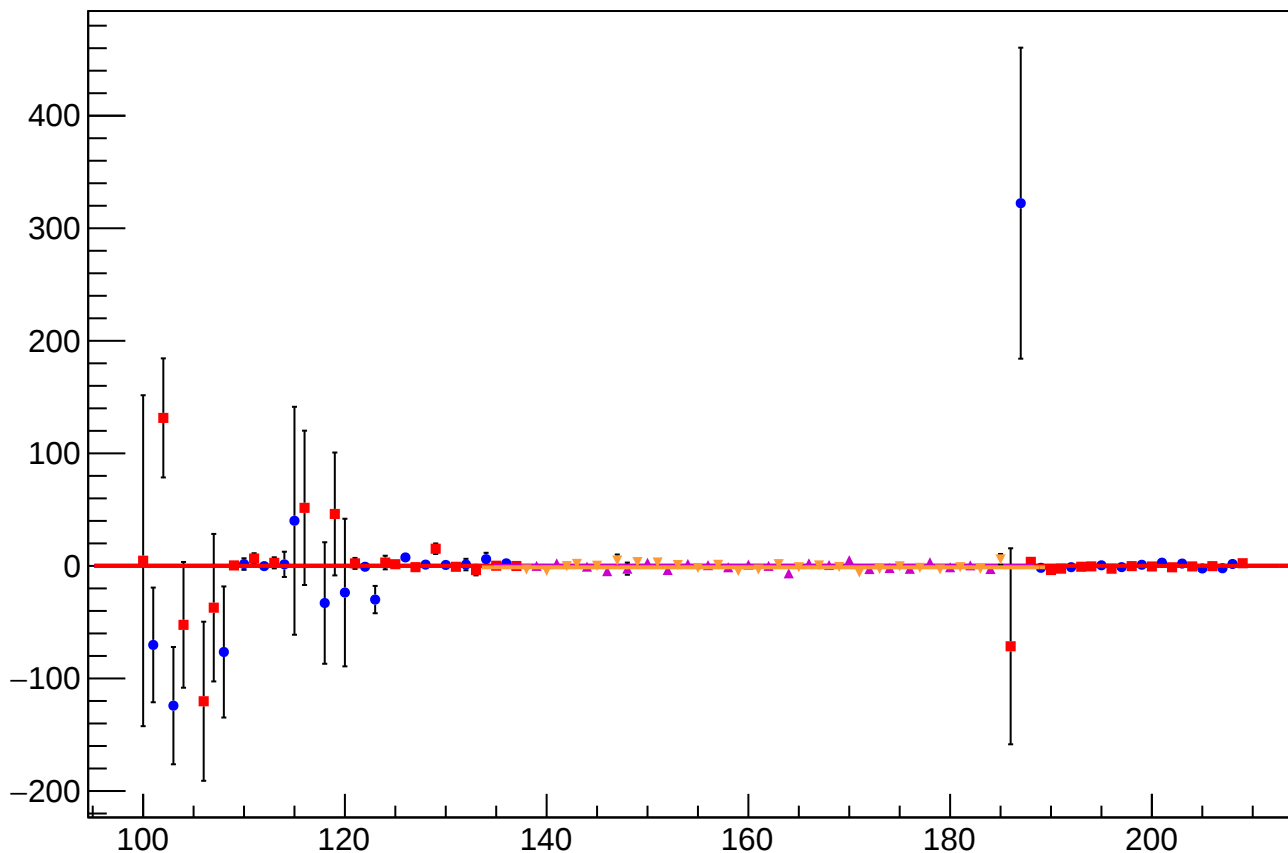
Right: 2178.213 $\pm$ 0.316 χ^2/NDF : 11533267.2/59

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

Out: 1809.362 $\pm$ 0.234 χ^2/NDF : 7396086.2/56

All: 1805.989 $\pm$ 0.167 χ^2/NDF : 13870986.2/105

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: 0.028 ± 0.468 $\chi^2/\text{NDF}: 36.5/31$

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

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

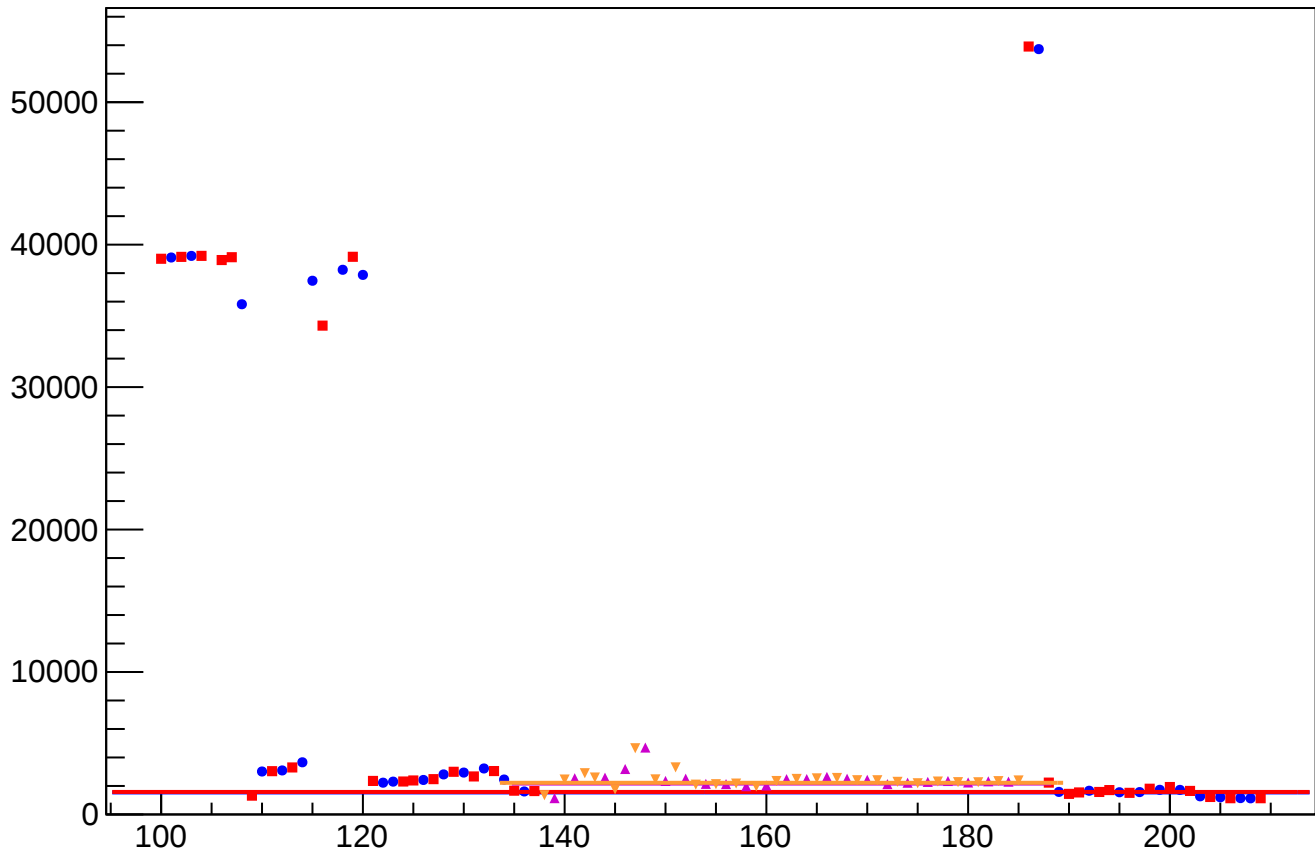
Right: 0.102 ± 0.331 $\chi^2/\text{NDF}: 77.5/59$

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

Out: -0.526 ± 0.352 $\chi^2/\text{NDF}: 61.5/56$

All: -0.236 ± 0.250 $\chi^2/\text{NDF}: 123.2/107$

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: 1580.312+/-0.331 χ^2/NDF : 7416962.3/31

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

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

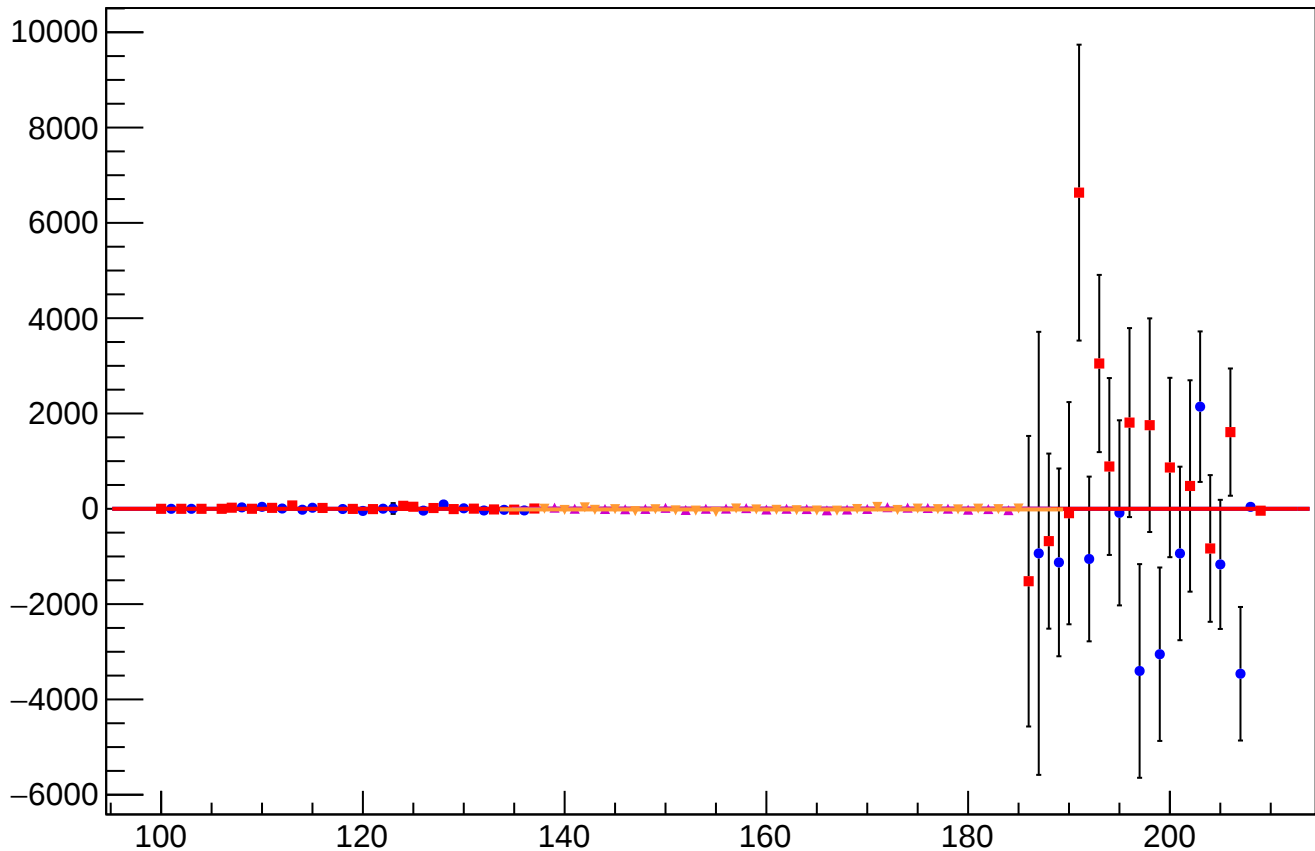
Right: 1562.779+/-0.234 χ^2/NDF : 14284567.2/59

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

Out: 1858.271+/-0.249 χ^2/NDF : 10470613.4/56

All: 1835.955+/-0.177 χ^2/NDF : 20841819.4/100

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: 27.8/31

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

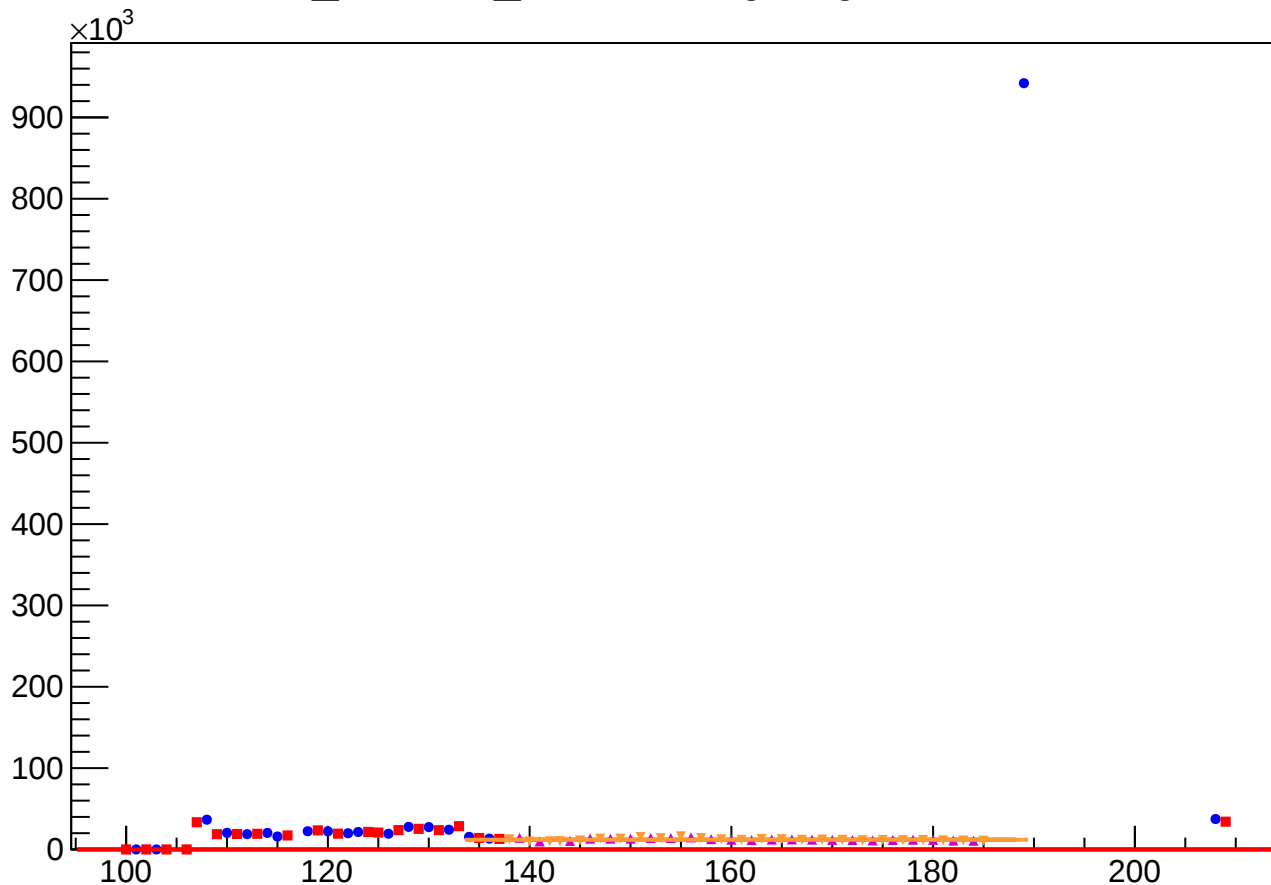
Right: 0.004 $\pm$ 0.012 χ^2 /NDF: 60.4/59

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

Out: -0.004 $\pm$ 0.016 χ^2 /NDF:109.6/56

All: 0.004 $\pm$ 0.012 χ^2 /NDF: 171.2/107

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: 18.317+/-0.011 χ^2/NDF : 12503910.3/19

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

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

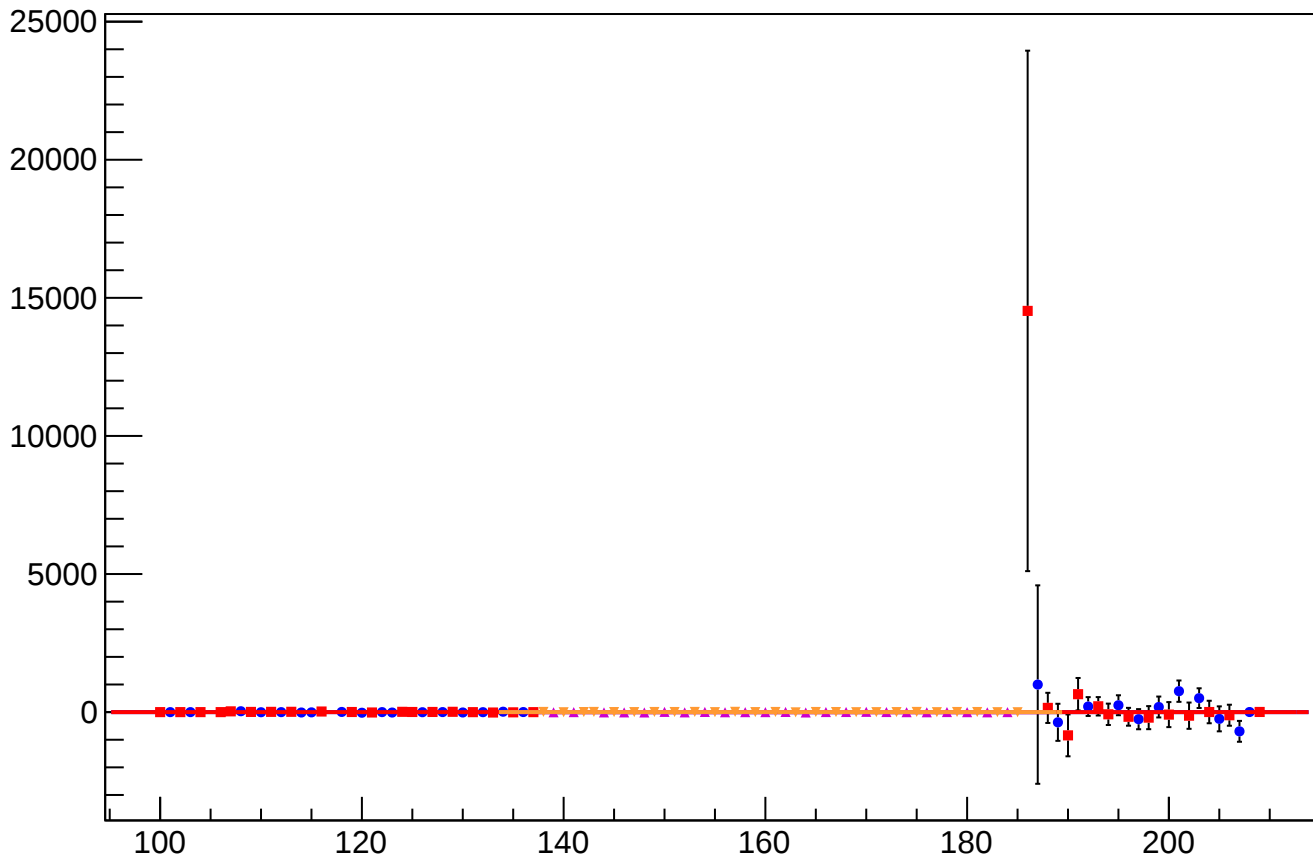
Right: 18.469+/-0.008 χ^2/NDF : 24789857.4/38

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

Out: 18.708+/-0.011 χ^2/NDF : 49045723.1/44

All: 18.876+/-0.008 χ^2/NDF : 95814045.8/86

diff_cav4bY_mean vs Slug, Sign Corrected



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

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

Right Out: -0.014+/-0.009 χ^2/NDF : 25.7/31

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

Left: 0.388+/-0.732 χ^2/NDF : 57.1/47

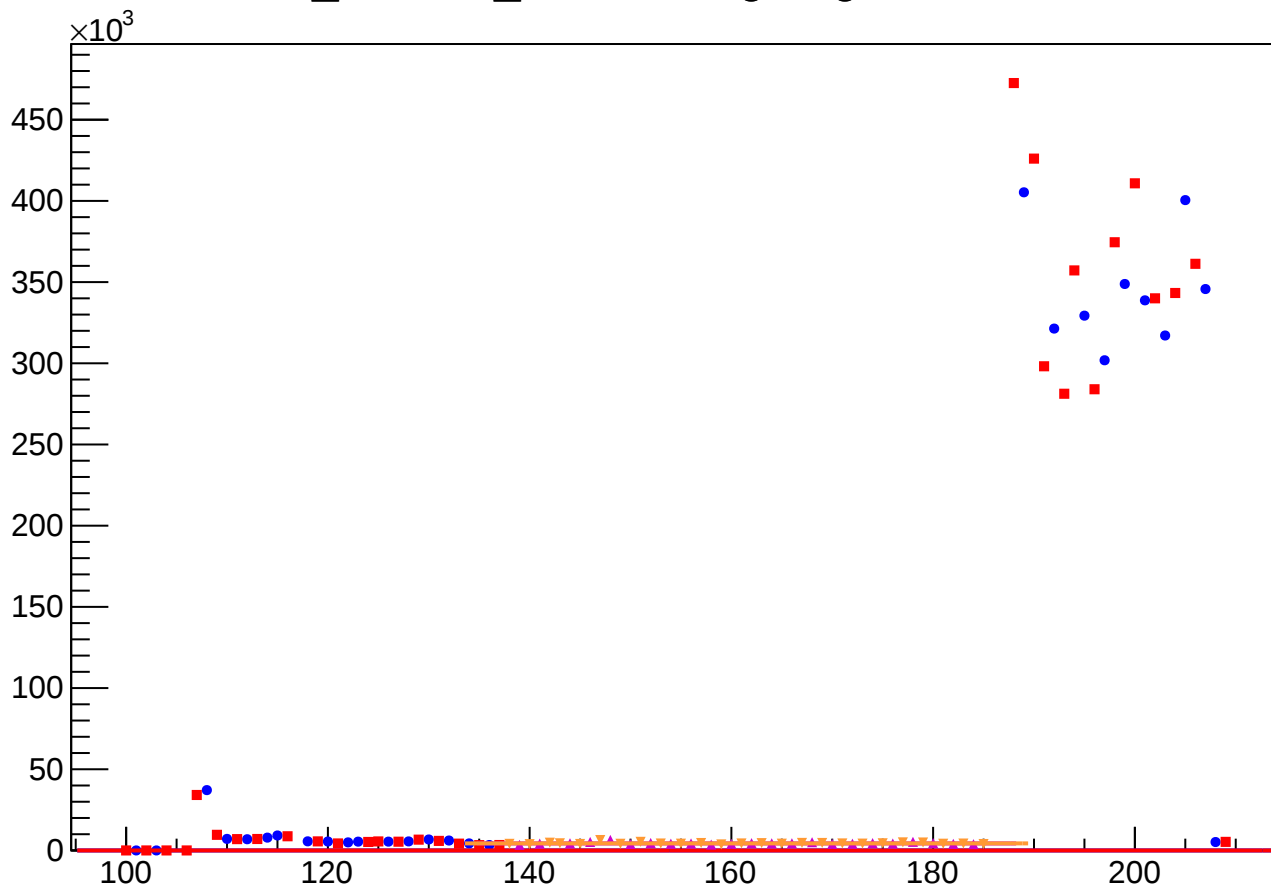
Right: -0.007+/-0.006 χ^2/NDF : 51.7/59

In: 0.001+/-0.009 χ^2/NDF : 61.0/50

Out: -0.014+/-0.009 χ^2/NDF : 46.7/56

All: -0.007+/-0.006 χ^2/NDF : 109.1/107

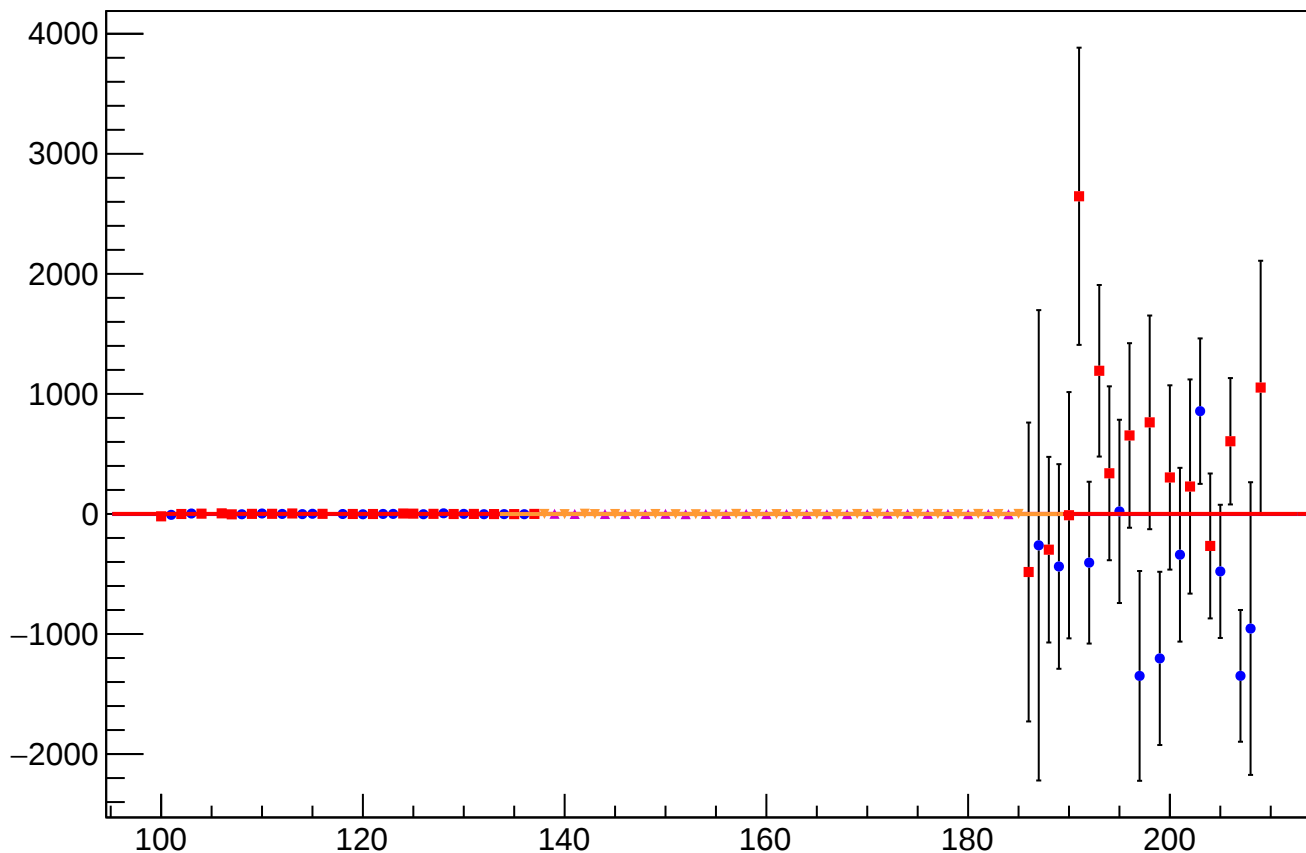
diff_cav4bY_rms vs Slug, Sign Corrected



Right In: 9.950 $\pm$ 0.007 χ^2 /NDF: 25796458.8/26
 Left Out: 4349.005 $\pm$ 0.723 χ^2 /NDF:383895.7/24
 Right Out: 9.866 $\pm$ 0.006 χ^2 /NDF: 27340198.3/30
 Left In: 4321.572 $\pm$ 0.741 χ^2 /NDF:514603.2/22

Left: 4335.639 $\pm$ 0.518 χ^2 /NDF: 899200.9/47
 Right: 9.905 $\pm$ 0.004 χ^2 /NDF: 53136745.6/57
 In: 10.282 $\pm$ 0.007 χ^2 /NDF:60128033.6/49
 Out: 10.177 $\pm$ 0.006 χ^2 /NDF:63769178.6/55
 All: 10.226 $\pm$ 0.004 χ^2 /NDF: 123897351.1/10

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 : 25.1/31

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

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

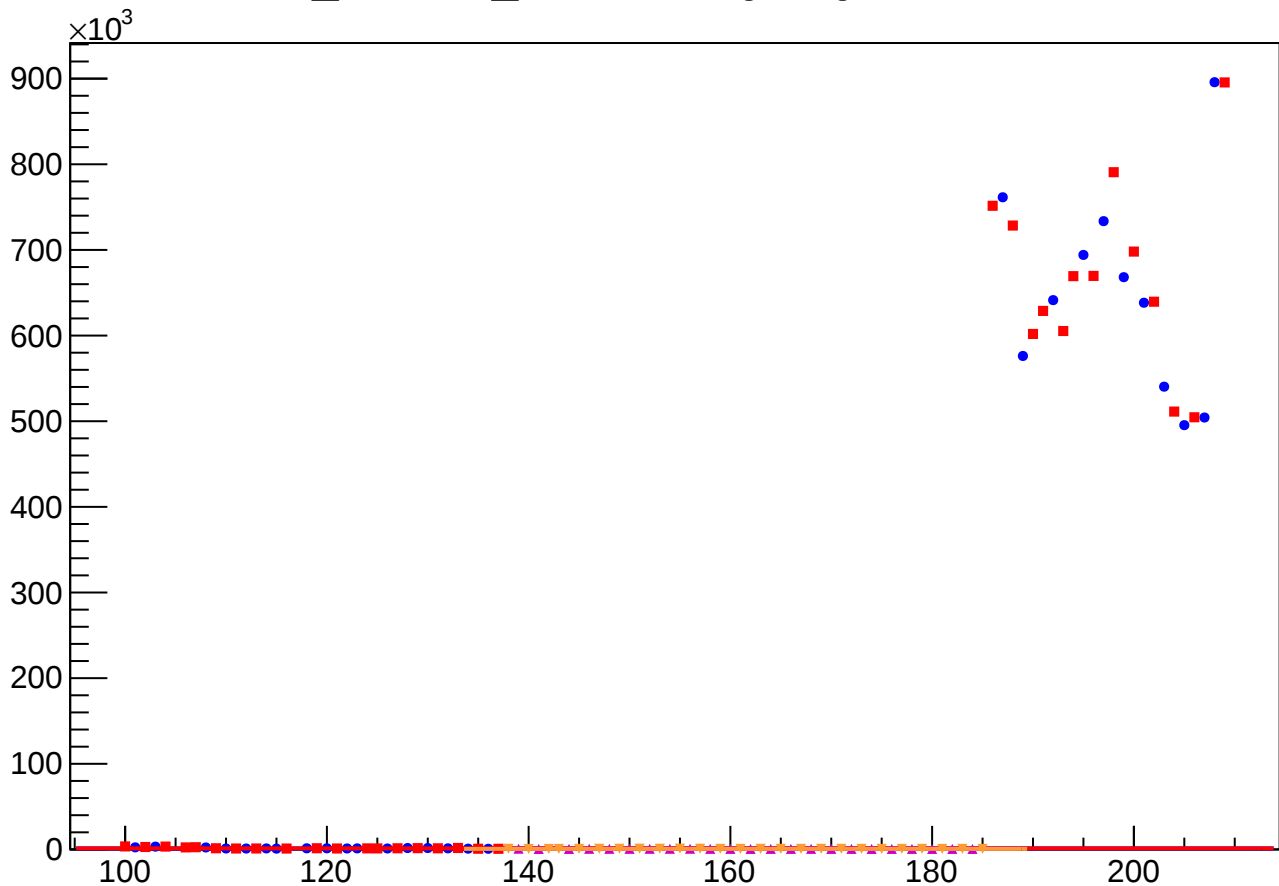
Right: -0.063 ± 0.348 χ^2/NDF : 67.0/59

In: -0.063 ± 0.161 χ^2/NDF : 69.6/50

Out: -0.637 ± 0.156 χ^2/NDF : 90.8/56

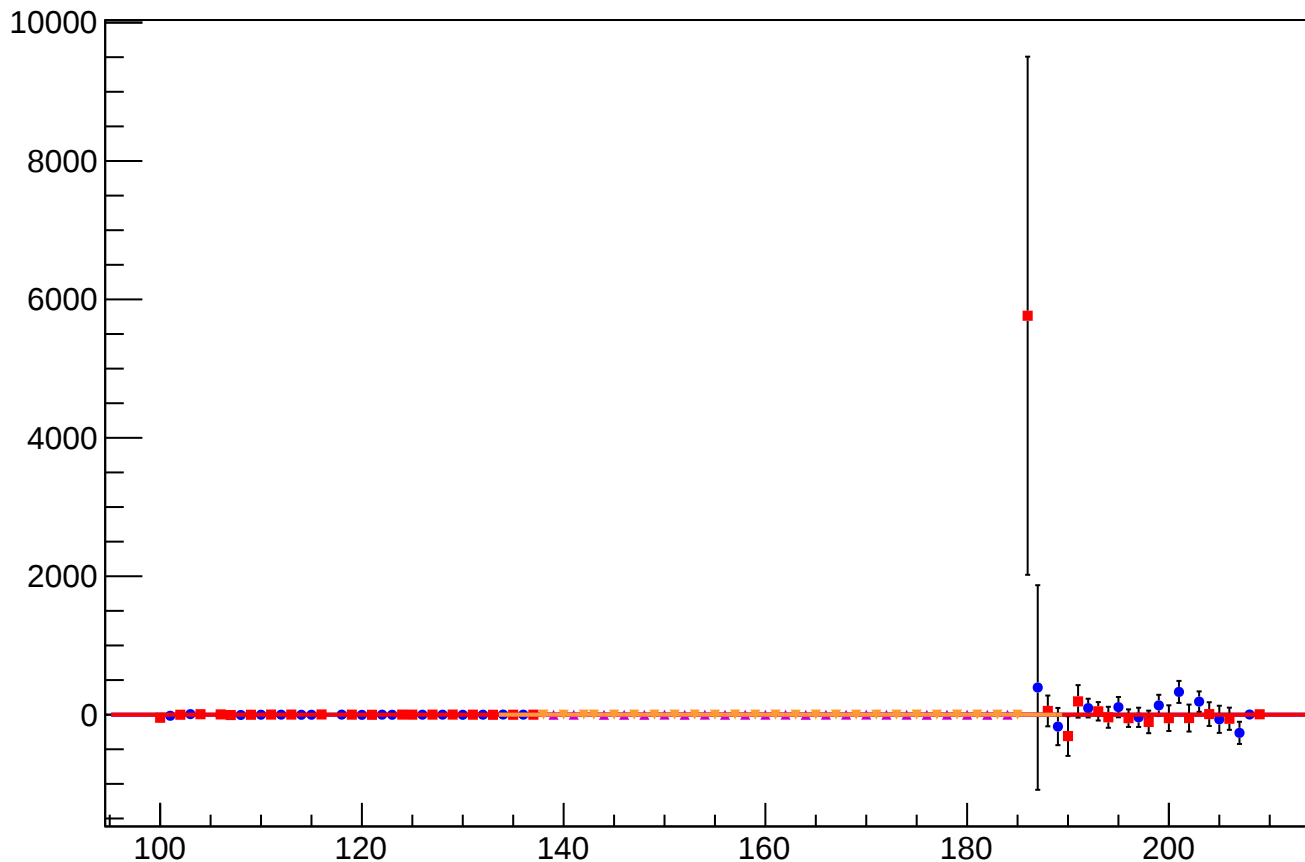
All: -0.359 ± 0.112 χ^2/NDF : 167.0/107

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: 1209.098 $\pm$ 0.246 χ^2 /NDF: 35516674.1/59
 Right Out: 1251.233 $\pm$ 0.355 χ^2 /NDF: 18818874.3/31
 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: 754.485 $\pm$ 0.111 χ^2 /NDF: 21385547.9/56
 All: 756.386 $\pm$ 0.079 χ^2 /NDF: 40021728.7/10

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: -0.265 ± 0.264 χ^2/NDF : 27.1/31

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

Left: 0.059 ± 0.088 χ^2/NDF : 57.1/47

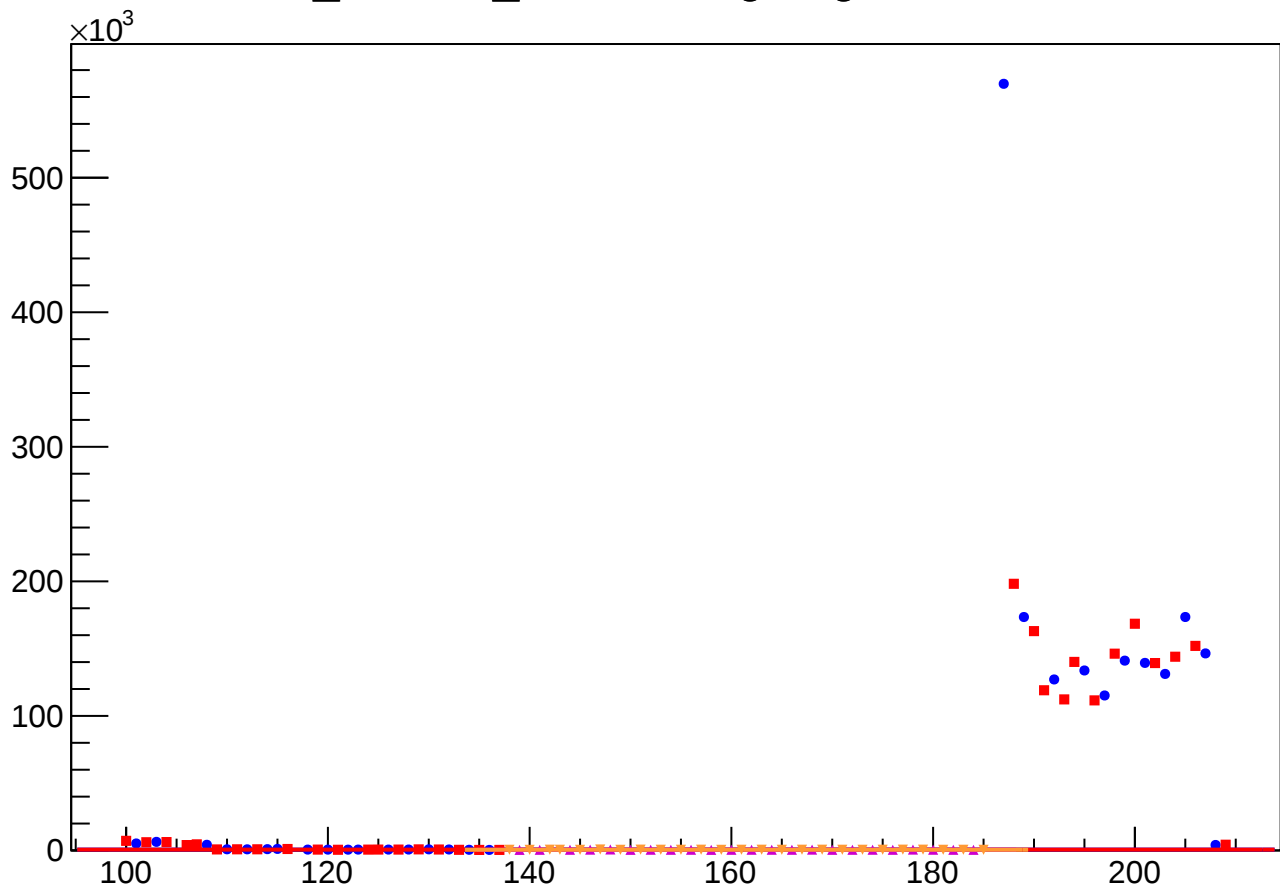
Right: -0.160 ± 0.188 χ^2/NDF : 57.9/59

In: -0.112 ± 0.114 χ^2/NDF : 65.4/50

Out: 0.145 ± 0.111 χ^2/NDF : 48.1/56

All: 0.020 ± 0.080 χ^2/NDF : 116.1/107

diff_cav4cY_rms vs Slug, Sign Corrected



Right In: 621.651+/-0.190

χ^2/NDF : 17838727.4/27

Left Out: 522.220+/-0.087

χ^2/NDF : 330405.3/24

Right Out: 612.568+/-0.187

χ^2/NDF : 19398844.1/30

Left In: 520.700+/-0.089

χ^2/NDF : 427720.5/22

Left: 521.481+/-0.062

χ^2/NDF : 758275.0/47

Right: 617.031+/-0.133

χ^2/NDF : 37238734.1/58

In: 538.936+/-0.081

χ^2/NDF : 18497828.1/50

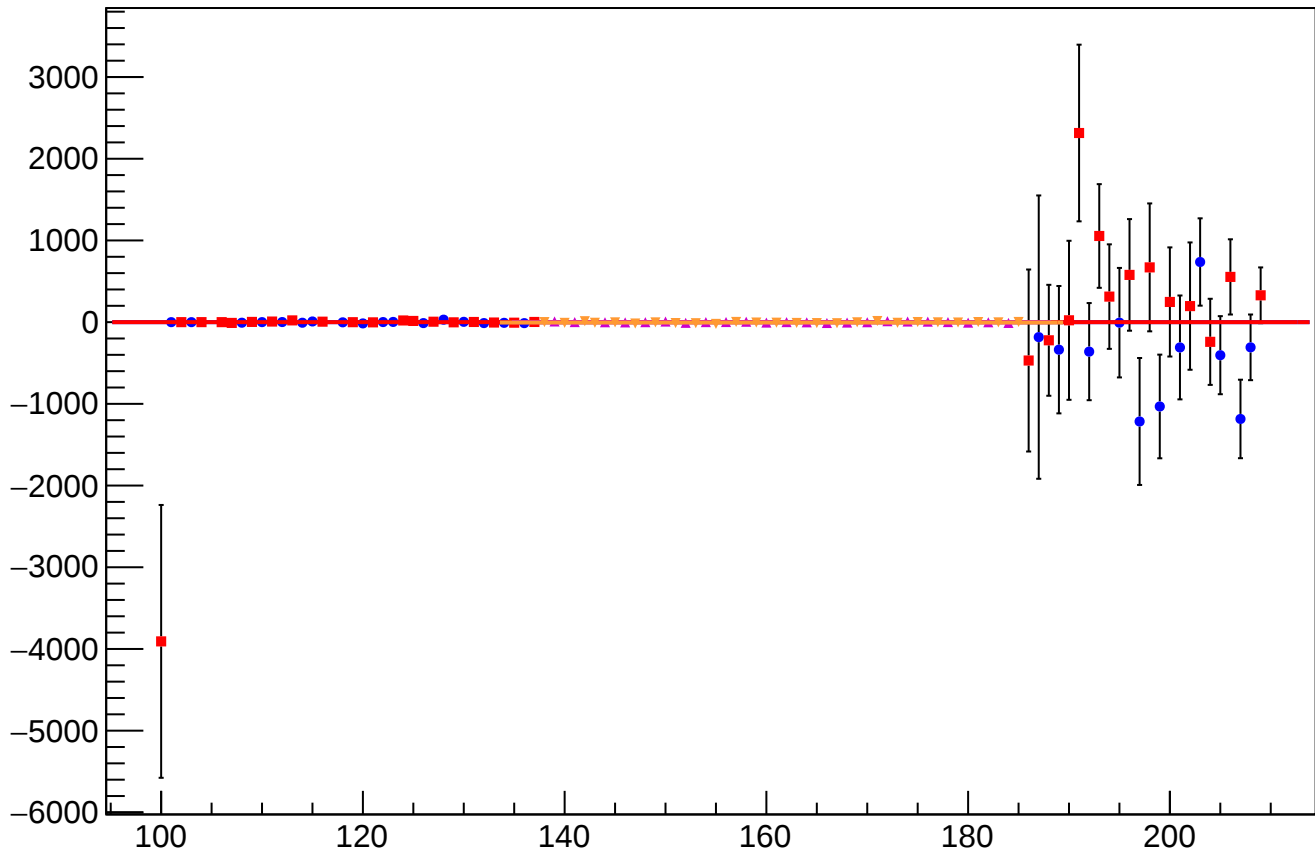
Out: 538.244+/-0.079

χ^2/NDF : 19921874.1/55

All: 538.581+/-0.056

χ^2/NDF : 38419739.9/10

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 : 29.6/31

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

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

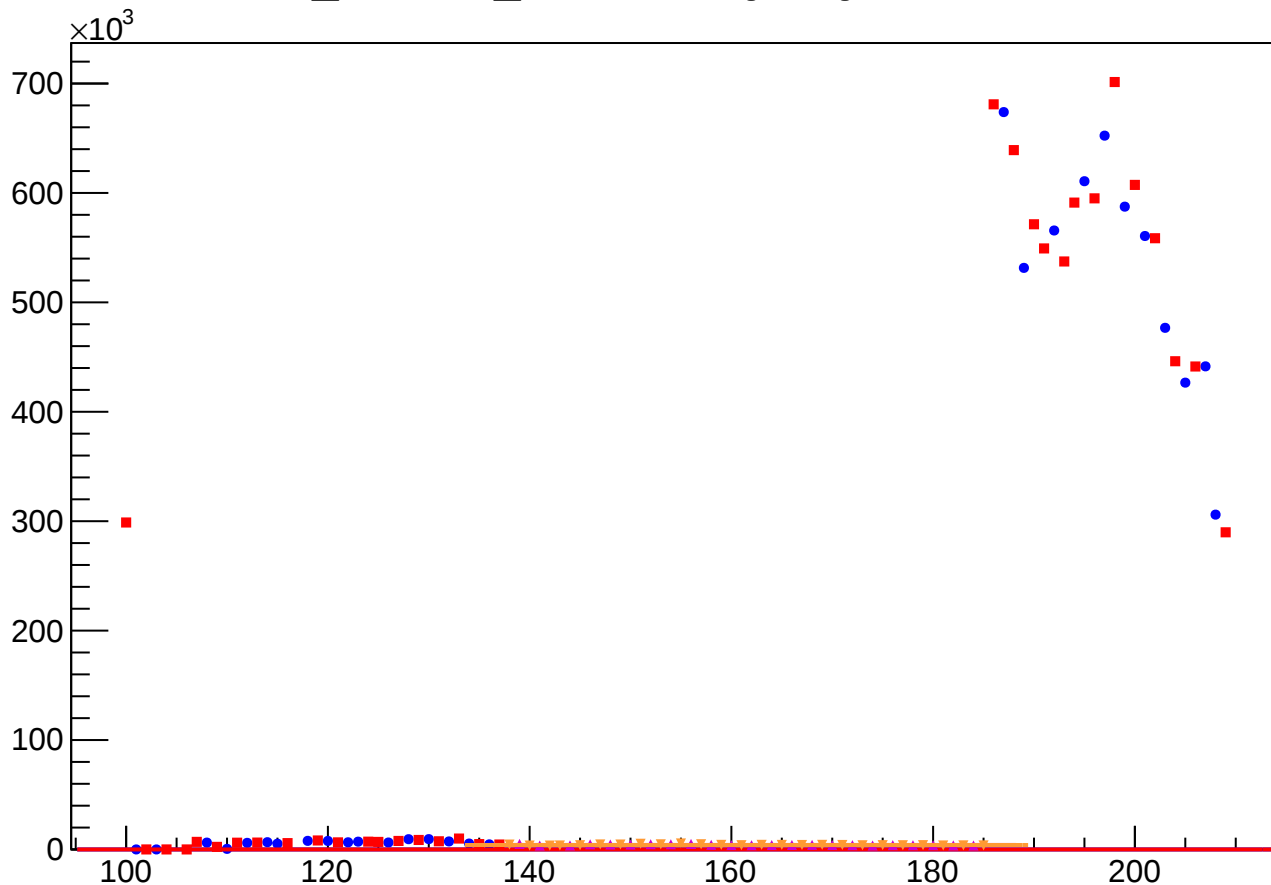
Right: 0.004+/-0.014 χ^2/NDF : 63.5/59

In: -0.022+/-0.021 χ^2/NDF : 60.7/50

Out: 0.025+/-0.020 χ^2/NDF : 110.1/56

All: 0.003+/-0.014 χ^2/NDF : 173.4/107

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: 17.274+/-0.014 χ^2/NDF : 28132844.8/31

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

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

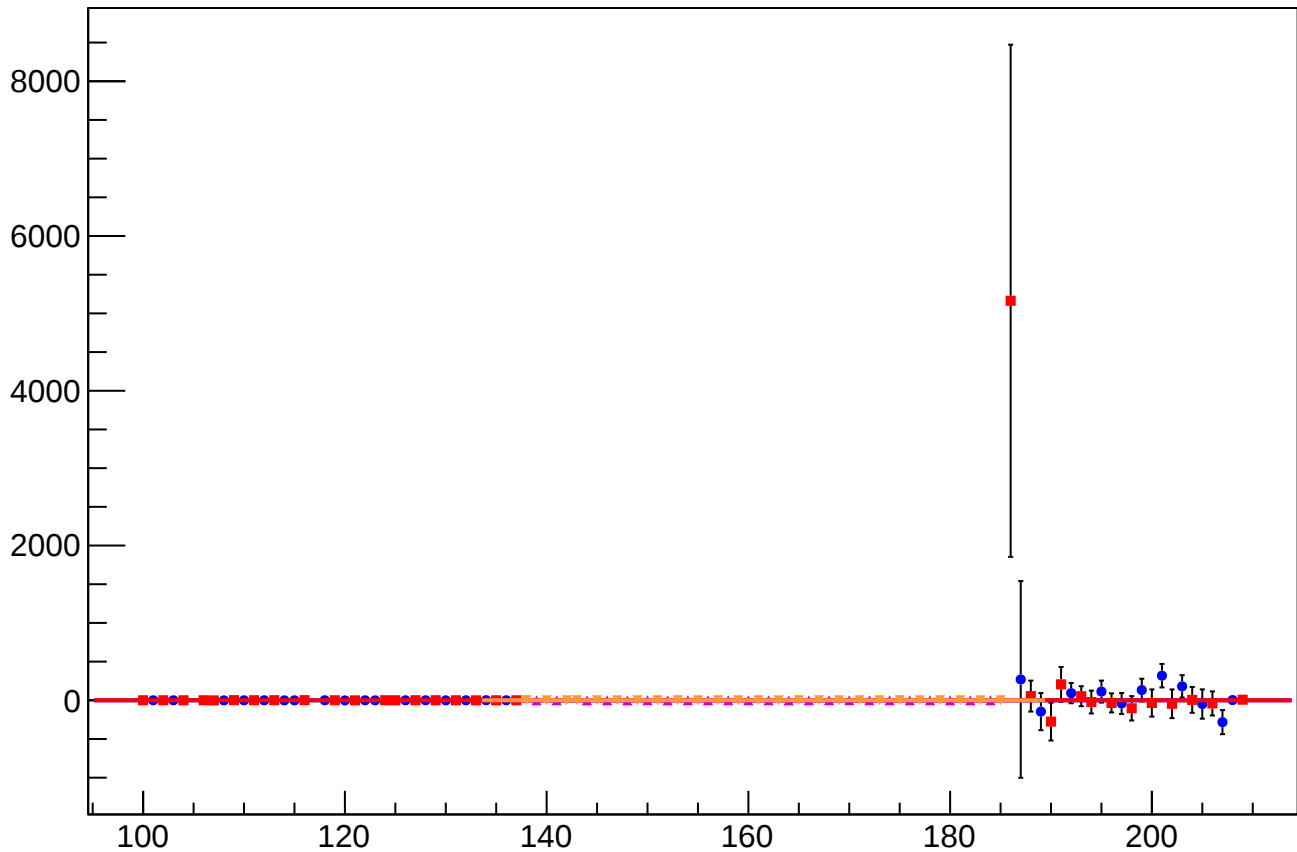
Right: 17.308+/-0.010 χ^2/NDF : 54009625.9/59

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

Out: 19.006+/-0.014 χ^2/NDF : 64485787.8/56

All: 19.068+/-0.010 χ^2/NDF : 124665025.5/106

diff_cav4dY_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.002 χ^2/NDF : 25.6/27

Left Out: 0.148+/-0.076 χ^2/NDF :17.3/24

Right Out: -0.001+/-0.002 χ^2/NDF : 25.4/31

Left In: -0.080+/-0.079 χ^2/NDF :34.6/22

Left: 0.038+/-0.055 χ^2/NDF : 56.3/47

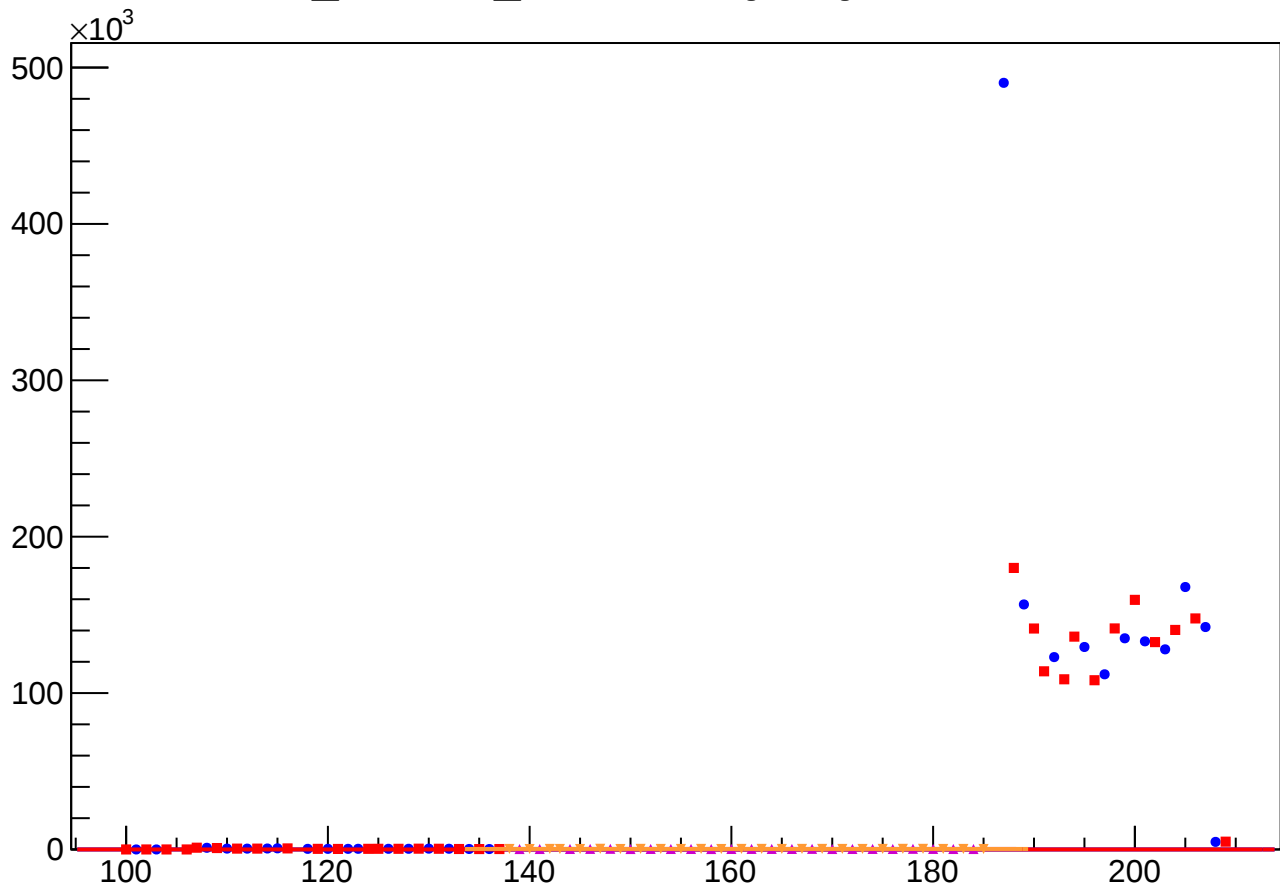
Right: -0.000+/-0.001 χ^2/NDF : 51.1/59

In: 0.000+/-0.002 χ^2/NDF :61.3/50

Out: -0.001+/-0.002 χ^2/NDF :46.5/56

All: -0.000+/-0.001 χ^2/NDF : 107.9/107

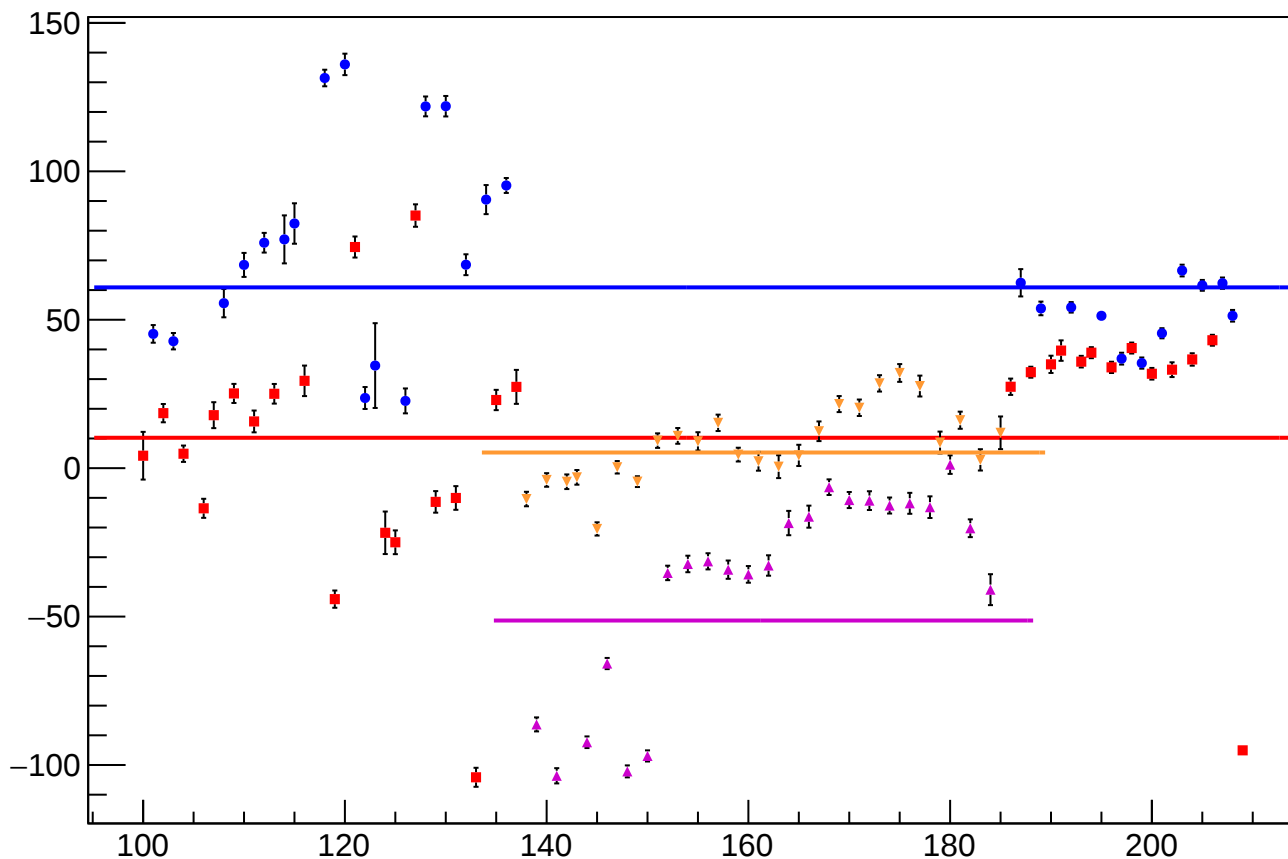
diff_cav4dY_rms vs Slug, Sign Corrected



Right In: 1.700 $\pm$ 0.001 χ^2 /NDF: 26180565.0/27
 Left Out: 325.326 $\pm$ 0.054 χ^2 /NDF:347705.2/24
 Right Out: 1.729 $\pm$ 0.001 χ^2 /NDF: 27107988.7/30
 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: 53288771.4/58
 In: 1.913 $\pm$ 0.001 χ^2 /NDF:60322578.8/50
 Out: 1.937 $\pm$ 0.001 χ^2 /NDF:63315358.8/55
 All: 1.926 $\pm$ 0.001 χ^2 /NDF: 123638084.6/106

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: 10.241 ± 0.463 $\chi^2/\text{NDF}: 10863.3/31$

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

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

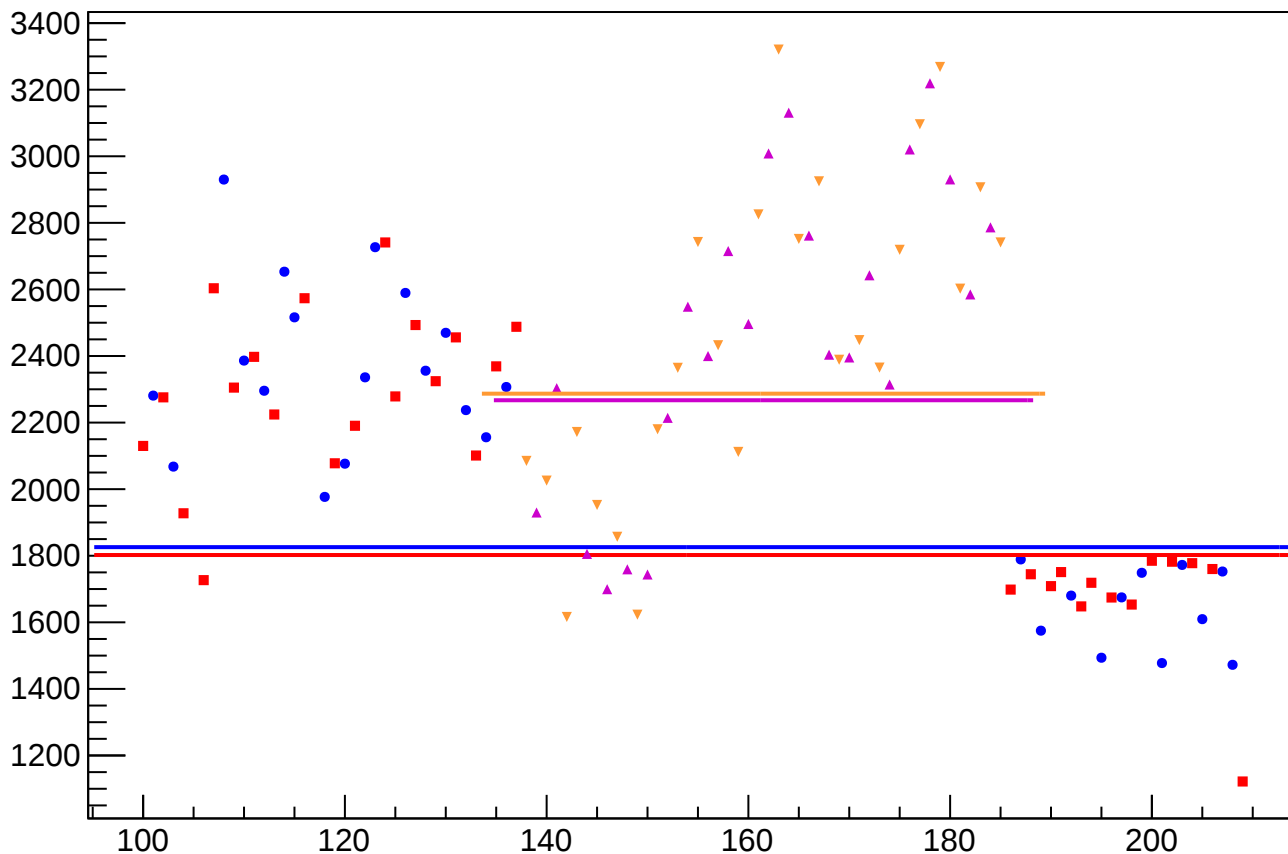
Right: 34.066 ± 0.337 $\chi^2/\text{NDF}: 19245.6/59$

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

Out: 8.158 ± 0.352 $\chi^2/\text{NDF}: 11467.8/56$

All: 9.981 ± 0.255 $\chi^2/\text{NDF}: 41310.1/107$

diff_bpm0i01X_rms vs Slug, Sign Corrected



Right In: 1825.861 ± 0.347

$\chi^2/\text{NDF}: 958522.2/27$

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

Right: 1813.312 ± 0.238 $\chi^2/\text{NDF}: 2209220.0/59$

Left Out: 2286.871 ± 0.385

$\chi^2/\text{NDF}: 1360490.8/24$

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

Right Out: 1802.172 ± 0.327

$\chi^2/\text{NDF}: 1248230.3/31$

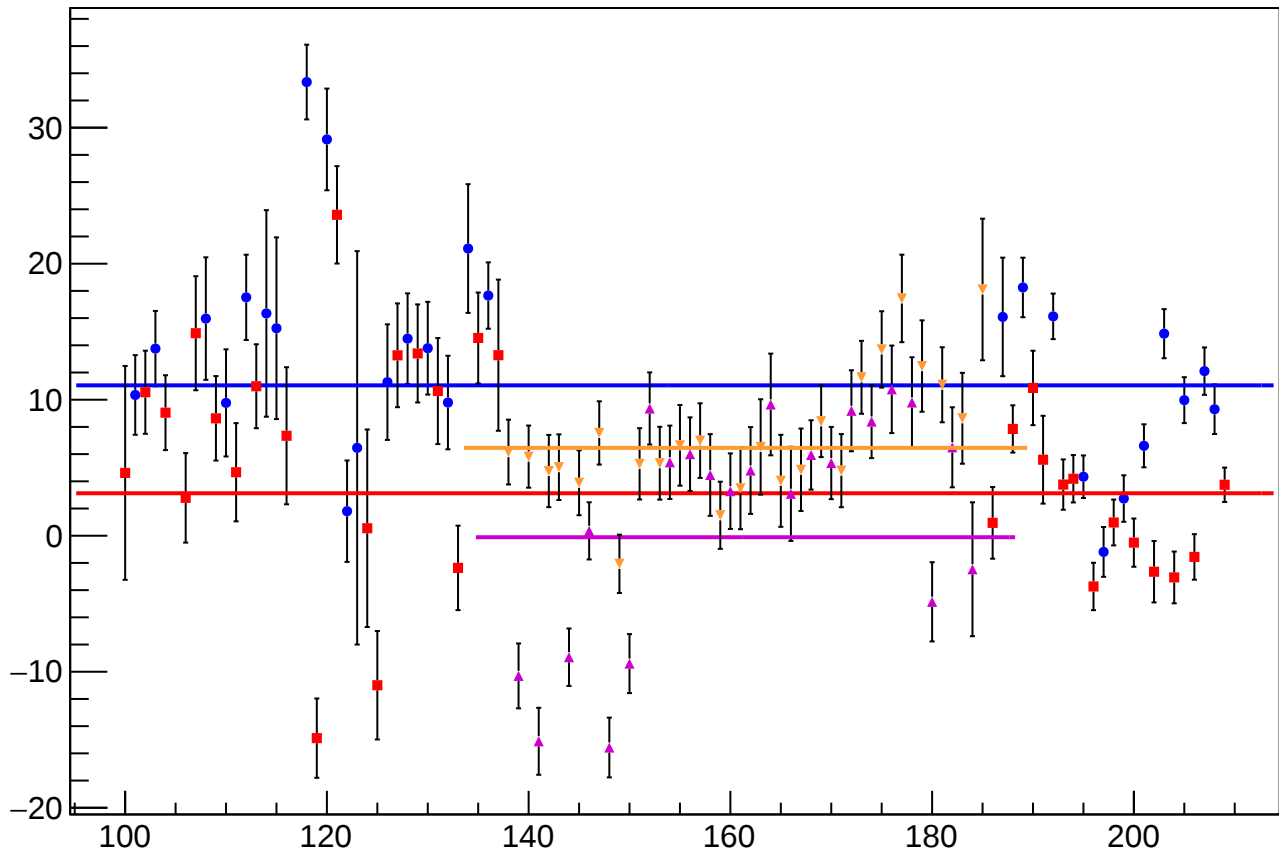
Out: 2005.460 ± 0.249 $\chi^2/\text{NDF}: 3529946.9/56$

Left In: 2267.097 ± 0.395

$\chi^2/\text{NDF}: 1313364.4/22$

All: 2011.553 ± 0.180 $\chi^2/\text{NDF}: 6507564.5/10$

diff_bpm0i01Y_mean vs Slug, Sign Corrected



Right In: 11.056 $\pm$ 0.463 χ^2 /NDF: 239.0/27

Left Out: 6.458 $\pm$ 0.548 χ^2 /NDF:58.7/24

Right Out: 3.123 $\pm$ 0.437 χ^2 /NDF: 213.1/31

Left In: -0.110 $\pm$ 0.565 χ^2 /NDF:234.6/22

Left: 3.278 $\pm$ 0.393 χ^2 /NDF: 363.0/47

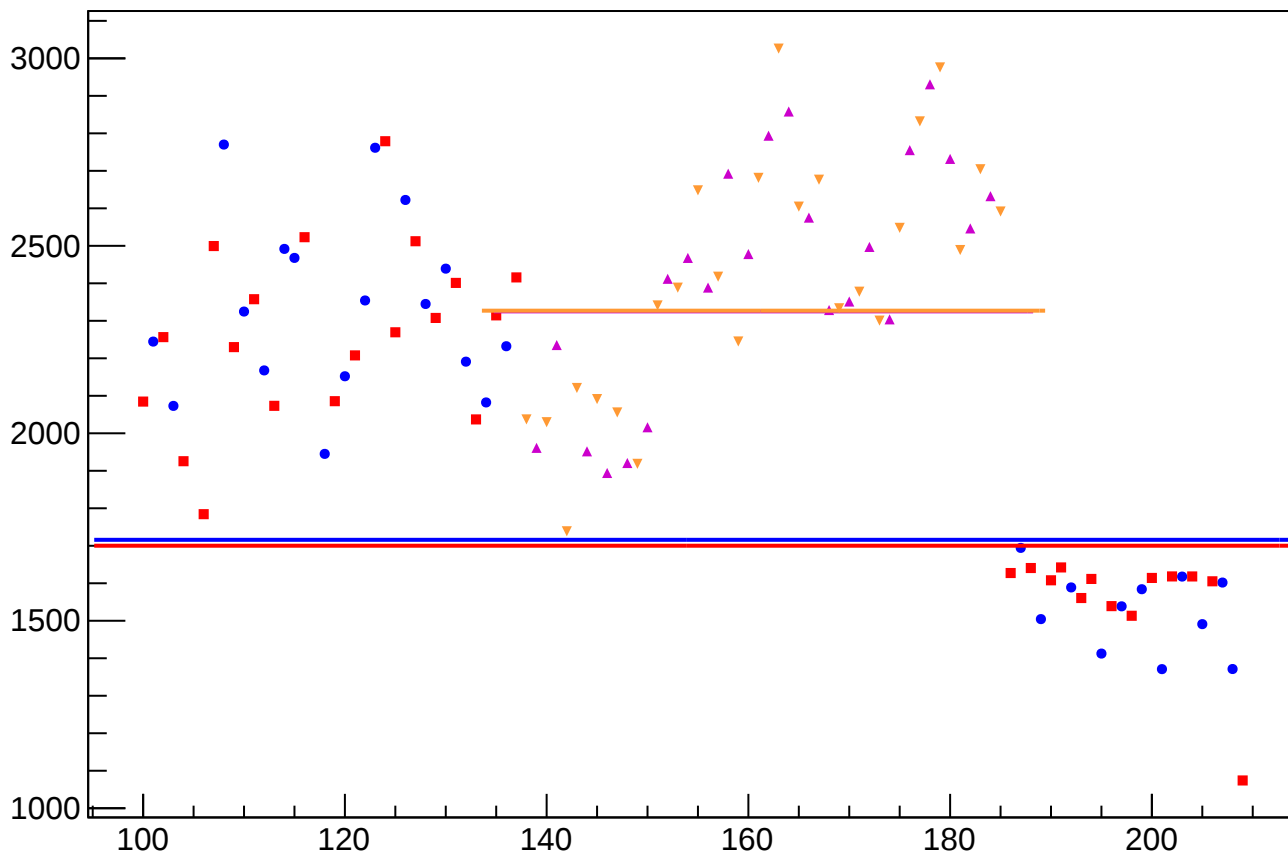
Right: 6.866 $\pm$ 0.318 χ^2 /NDF: 607.3/59

In: 6.573 $\pm$ 0.358 χ^2 /NDF:707.2/50

Out: 4.423 $\pm$ 0.342 χ^2 /NDF:294.5/56

All: 5.448 $\pm$ 0.247 χ^2 /NDF: 1020.6/107

diff_bpm0i01Y_rms vs Slug, Sign Corrected



Right In: 1715.893 ± 0.327

$\chi^2/\text{NDF}: 1198871.8/27$

Left: 2326.139 ± 0.278

$\chi^2/\text{NDF}: 1257447.2/47$

Left Out: 2327.044 ± 0.387

$\chi^2/\text{NDF}: 646706.7/24$

Right: 1707.585 ± 0.225

$\chi^2/\text{NDF}: 2635495.2/59$

Right Out: 1700.162 ± 0.309

$\chi^2/\text{NDF}: 1435403.0/31$

In: 1960.469 ± 0.253

$\chi^2/\text{NDF}: 3201009.2/50$

Out: 1944.399 ± 0.242

$\chi^2/\text{NDF}: 3682219.2/56$

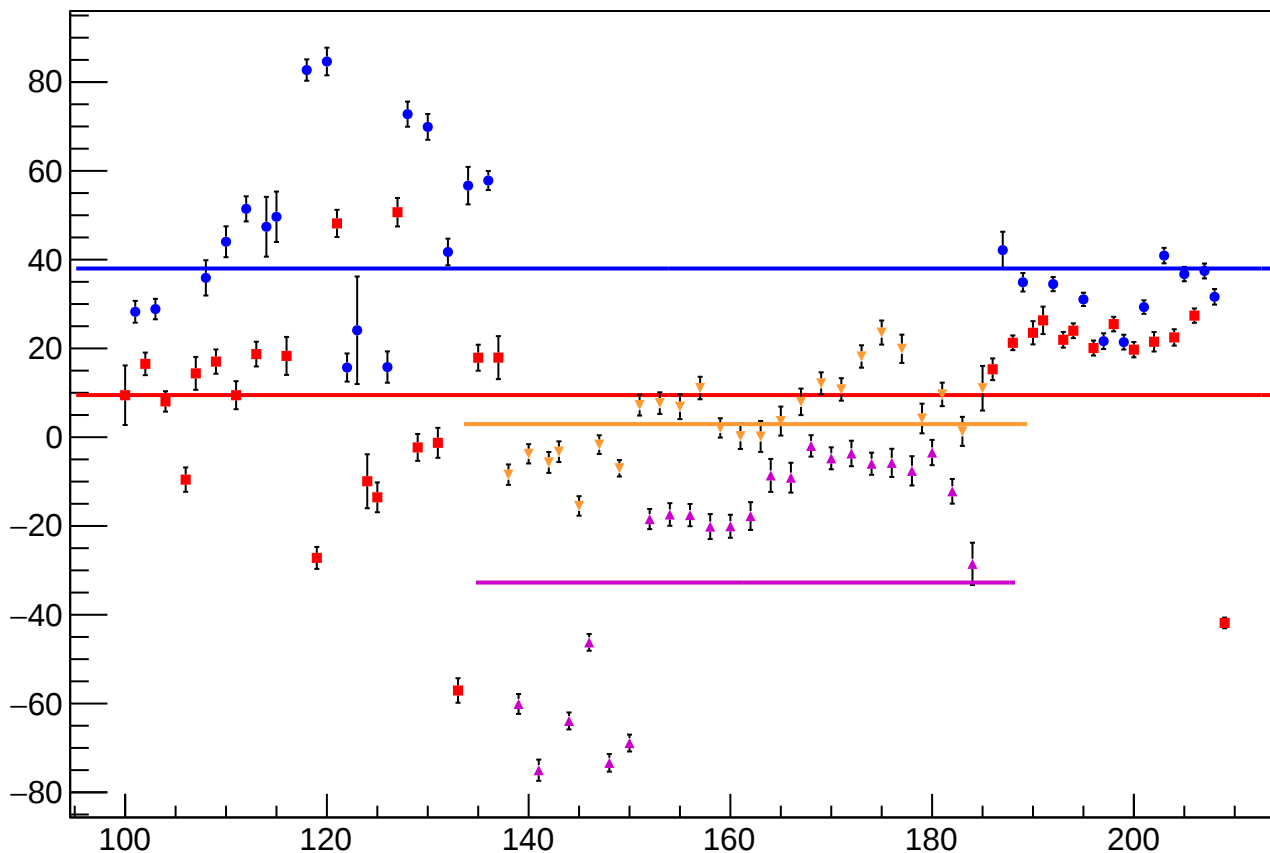
Left In: 2325.175 ± 0.400

$\chi^2/\text{NDF}: 610729.2/22$

All: 1952.060 ± 0.175

$\chi^2/\text{NDF}: 6885336.5/10$

diff_bpm0i01aX_mean vs Slug, Sign Corrected



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

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

Right Out: 9.493 ± 0.407 $\chi^2/\text{NDF}: 3740.4/31$

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

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

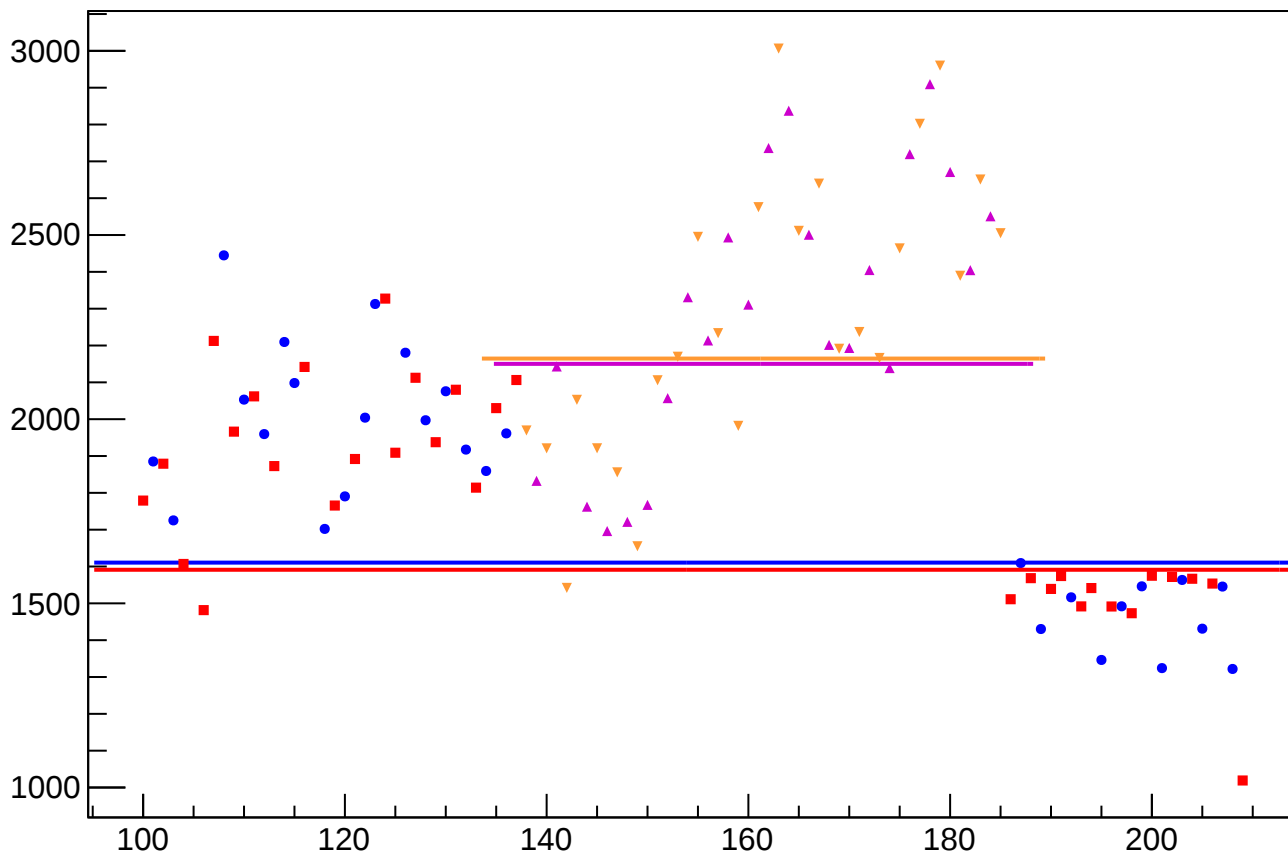
Right: 22.920 ± 0.296 $\chi^2/\text{NDF}: 7421.3/59$

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

Out: 6.964 ± 0.318 $\chi^2/\text{NDF}: 4178.4/56$

All: 8.222 ± 0.230 $\chi^2/\text{NDF}: 19031.7/107$

diff_bpm0i01aX_rms vs Slug, Sign Corrected



Right In: 1610.595 $\pm$ 0.305 χ^2/NDF : 729703.8/27

Left Out: 2164.573 $\pm$ 0.362 χ^2/NDF : 965603.5/24

Right Out: 1591.169 $\pm$ 0.287 χ^2/NDF : 985605.3/31

Left In: 2150.190 $\pm$ 0.372 χ^2/NDF : 911849.7/22

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

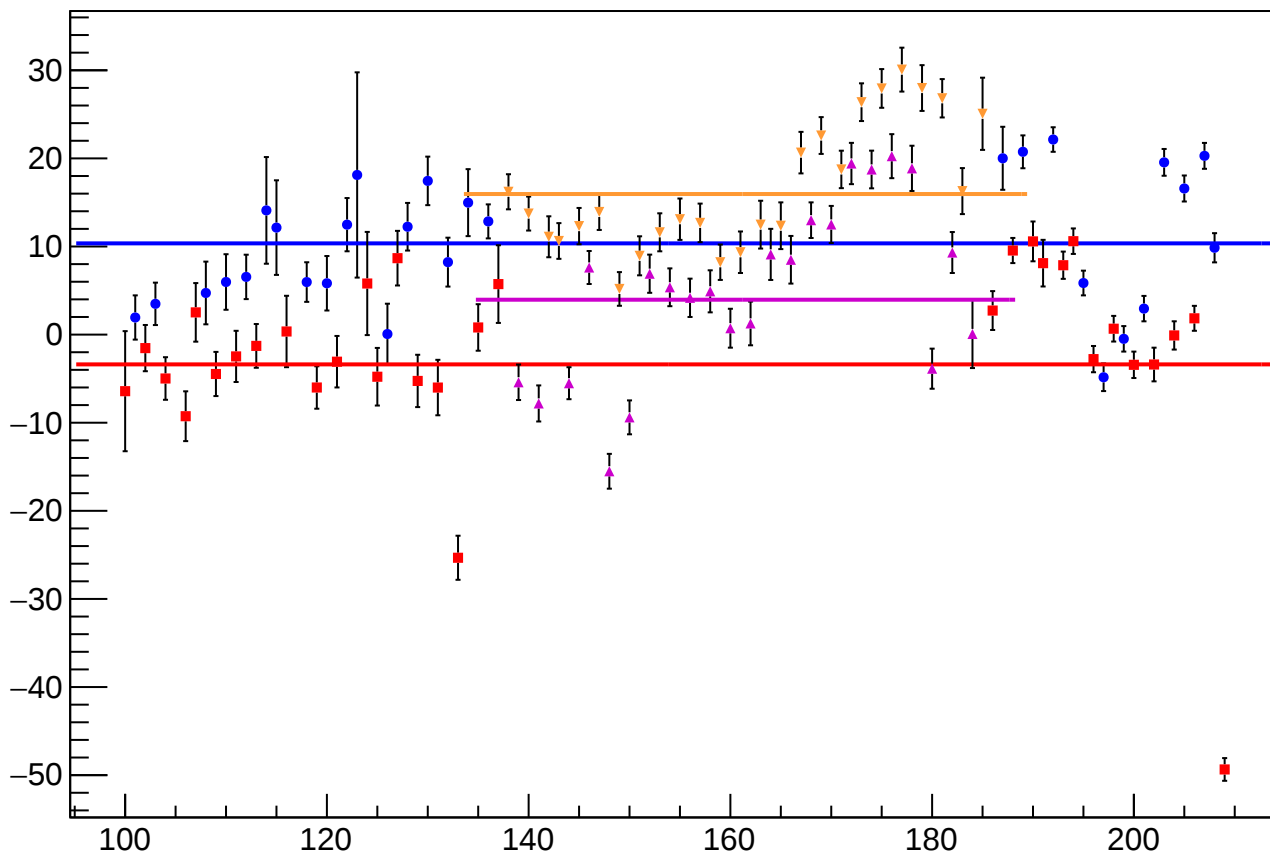
Right: 1600.317 $\pm$ 0.209 χ^2/NDF : 1717460.1/59

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

Out: 1812.913 $\pm$ 0.225 χ^2/NDF : 3490077.3/56

All: 1819.738 $\pm$ 0.163 χ^2/NDF : 6392726.8/10

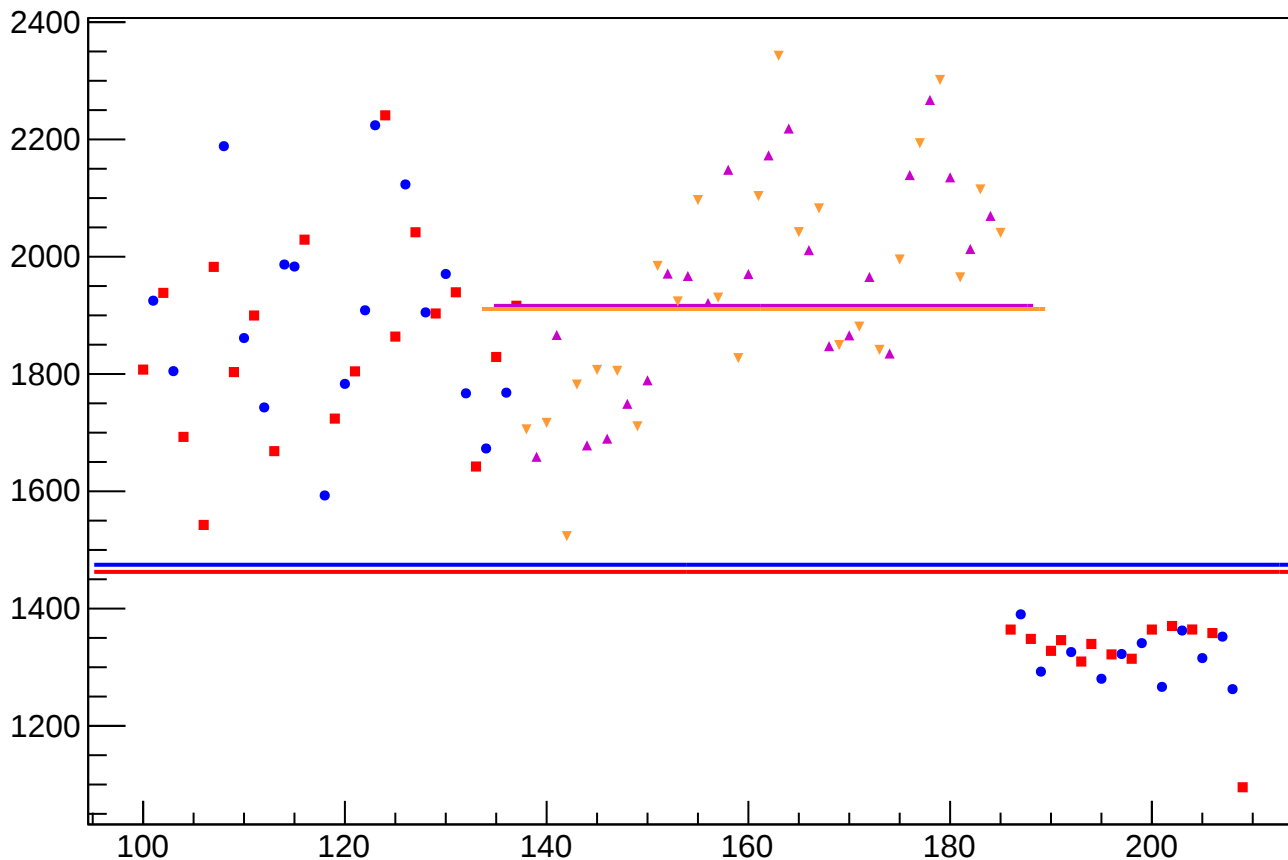
diff_bpm0i01aY_mean vs Slug, Sign Corrected



Right In: 10.355 ± 0.394 $\chi^2/\text{NDF}: 449.9/27$
 Left Out: 15.956 ± 0.447 $\chi^2/\text{NDF}: 245.2/24$
 Right Out: -3.380 ± 0.373 $\chi^2/\text{NDF}: 1705.3/31$
 Left In: 3.960 ± 0.463 $\chi^2/\text{NDF}: 464.9/22$

Left: 10.161 ± 0.322 $\chi^2/\text{NDF}: 1057.3/47$
 Right: 3.107 ± 0.271 $\chi^2/\text{NDF}: 2796.6/59$
 In: 7.668 ± 0.300 $\chi^2/\text{NDF}: 1025.5/50$
 Out: 4.541 ± 0.286 $\chi^2/\text{NDF}: 3053.1/56$
 All: 6.032 ± 0.207 $\chi^2/\text{NDF}: 4135.5/107$

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: 1462.595 $\pm$ 0.264 χ^2 /NDF: 915102.4/31

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

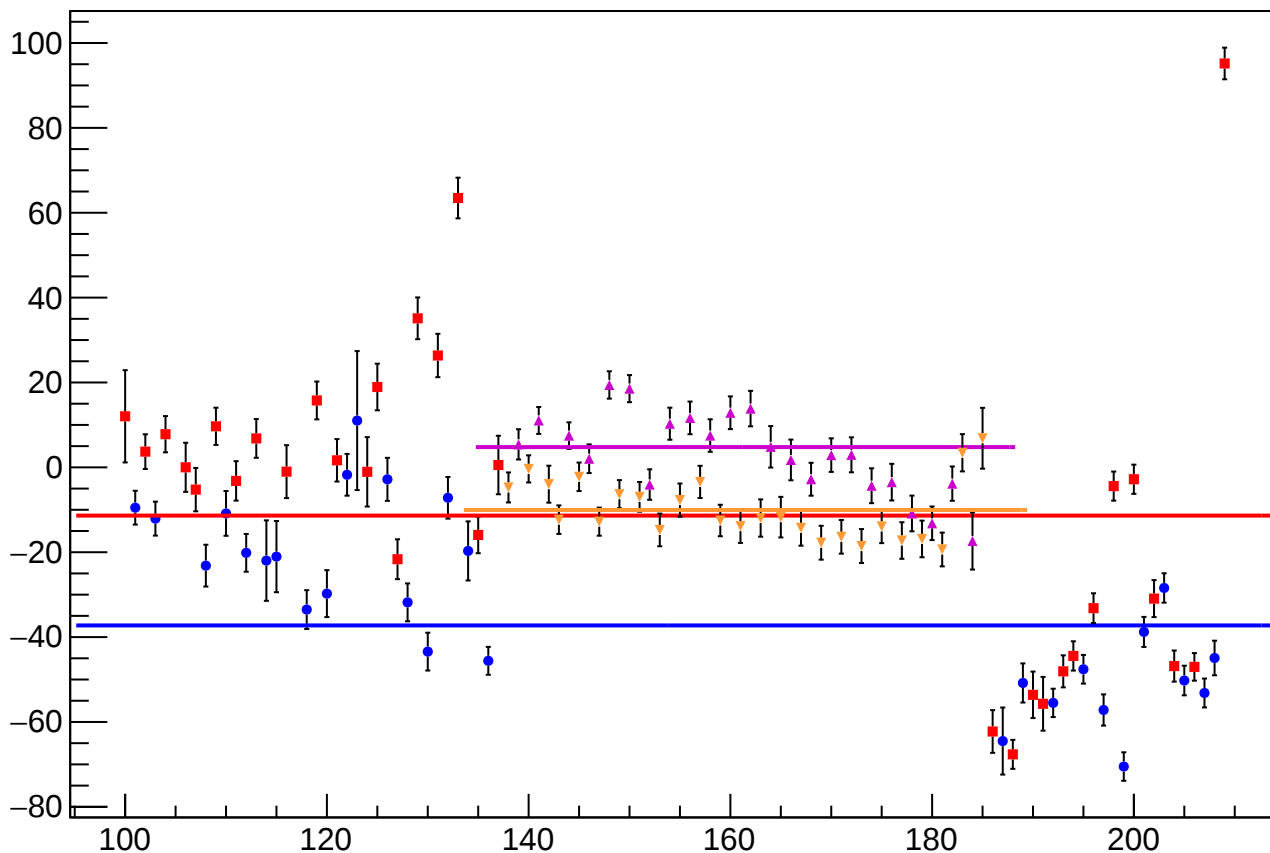
Right: 1468.330 $\pm$ 0.191 χ^2 /NDF: 1758745.5/59

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

Out: 1646.217 $\pm$ 0.202 χ^2 /NDF: 2429345.6/56

All: 1652.882 $\pm$ 0.146 χ^2 /NDF: 4603466.9/10

diff_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -37.250 ± 0.818 χ^2/NDF : 538.6/27

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

Right Out: -11.365 ± 0.784 χ^2/NDF : 2331.6/31

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

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

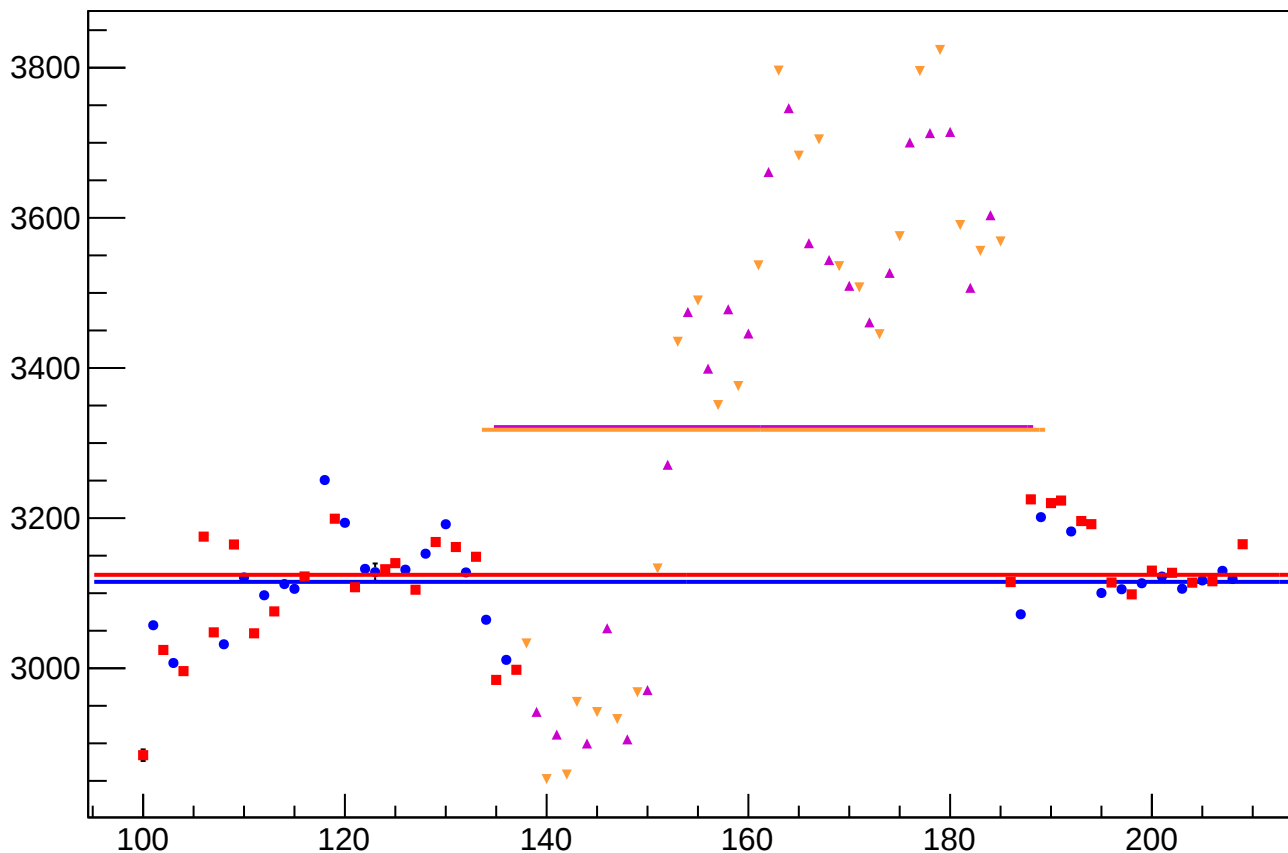
Right: -23.747 ± 0.566 χ^2/NDF : 3392.0/59

In: -15.771 ± 0.572 χ^2/NDF : 2014.6/50

Out: -10.697 ± 0.552 χ^2/NDF : 2400.2/56

All: -13.141 ± 0.397 χ^2/NDF : 4455.5/107

diff_bpm0l01X_rms vs Slug, Sign Corrected



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

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

Right Out: 3124.494 $\pm$ 0.554 χ^2 /NDF: 14017.1/31

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

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

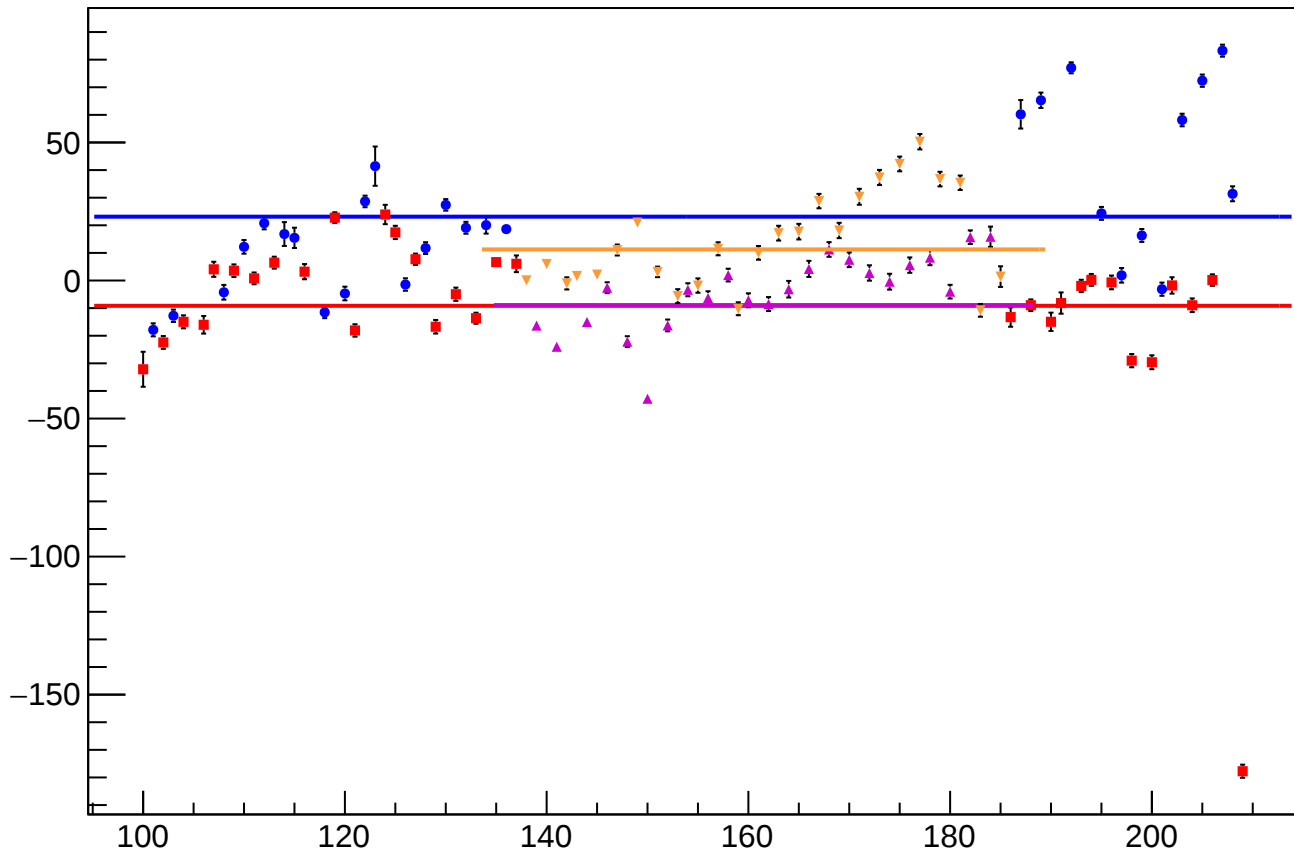
Right: 3120.008 $\pm$ 0.400 χ^2 /NDF: 23387.2/59

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

Out: 3222.011 $\pm$ 0.390 χ^2 /NDF:412242.3/56

All: 3221.276 $\pm$ 0.281 χ^2 /NDF: 770673.8/107

diff_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: 23.124+/-0.446 χ^2/NDF : 3960.0/27

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

Right Out: -9.158+/-0.431 χ^2/NDF : 6102.2/31

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

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

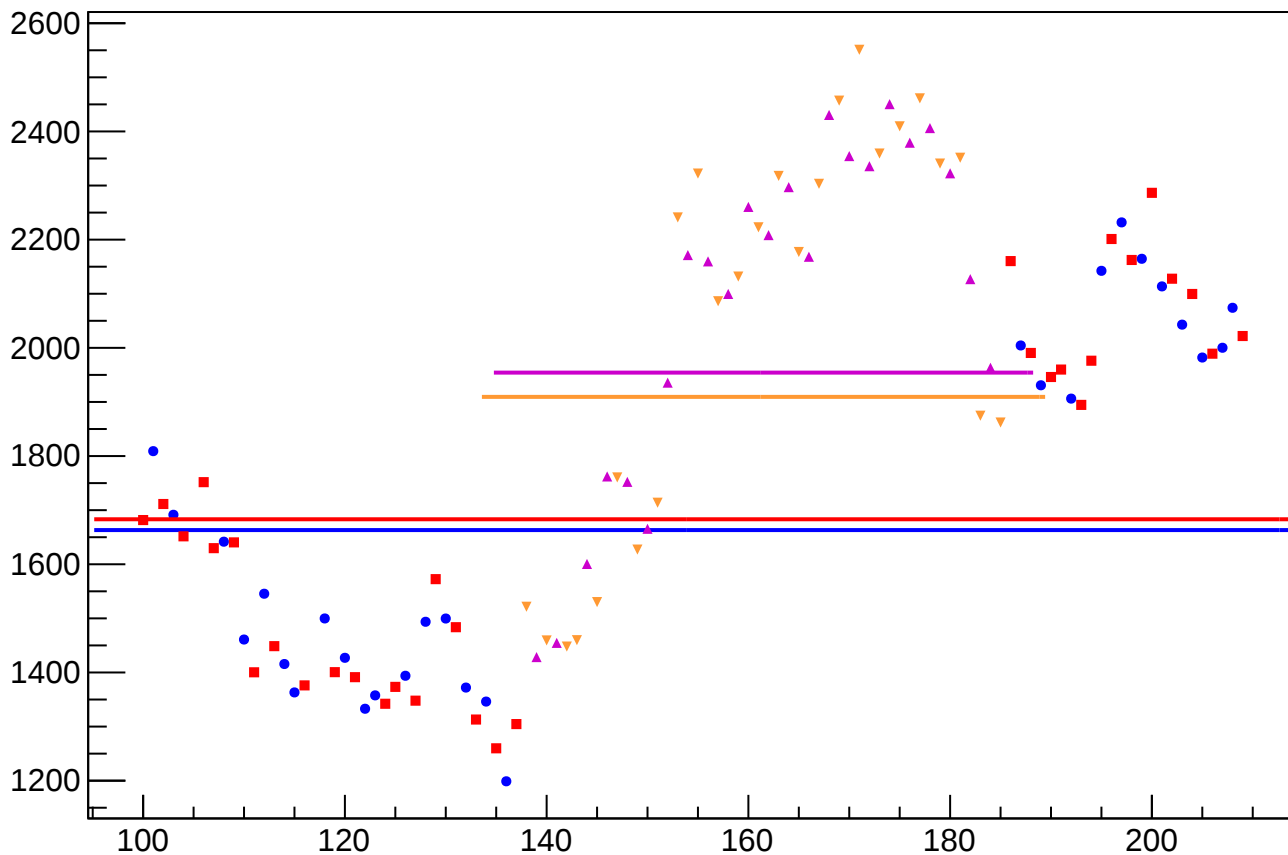
Right: 6.408+/-0.310 χ^2/NDF : 12773.3/59

In: 8.196+/-0.326 χ^2/NDF : 7298.4/50

Out: 0.505+/-0.313 χ^2/NDF : 8308.9/56

All: 4.188+/-0.226 χ^2/NDF : 15897.3/107

diff_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 1663.198 +/- 0.315 χ^2/NDF : 1076865.8/27

Left Out: 1909.387 +/- 0.321 χ^2/NDF : 1398498.0/24

Right Out: 1683.170 +/- 0.304 χ^2/NDF : 1118532.3/31

Left In: 1954.236 +/- 0.338 χ^2/NDF : 1044826.7/22

Left: 1930.697 +/- 0.233 χ^2/NDF : 2452584.2/47

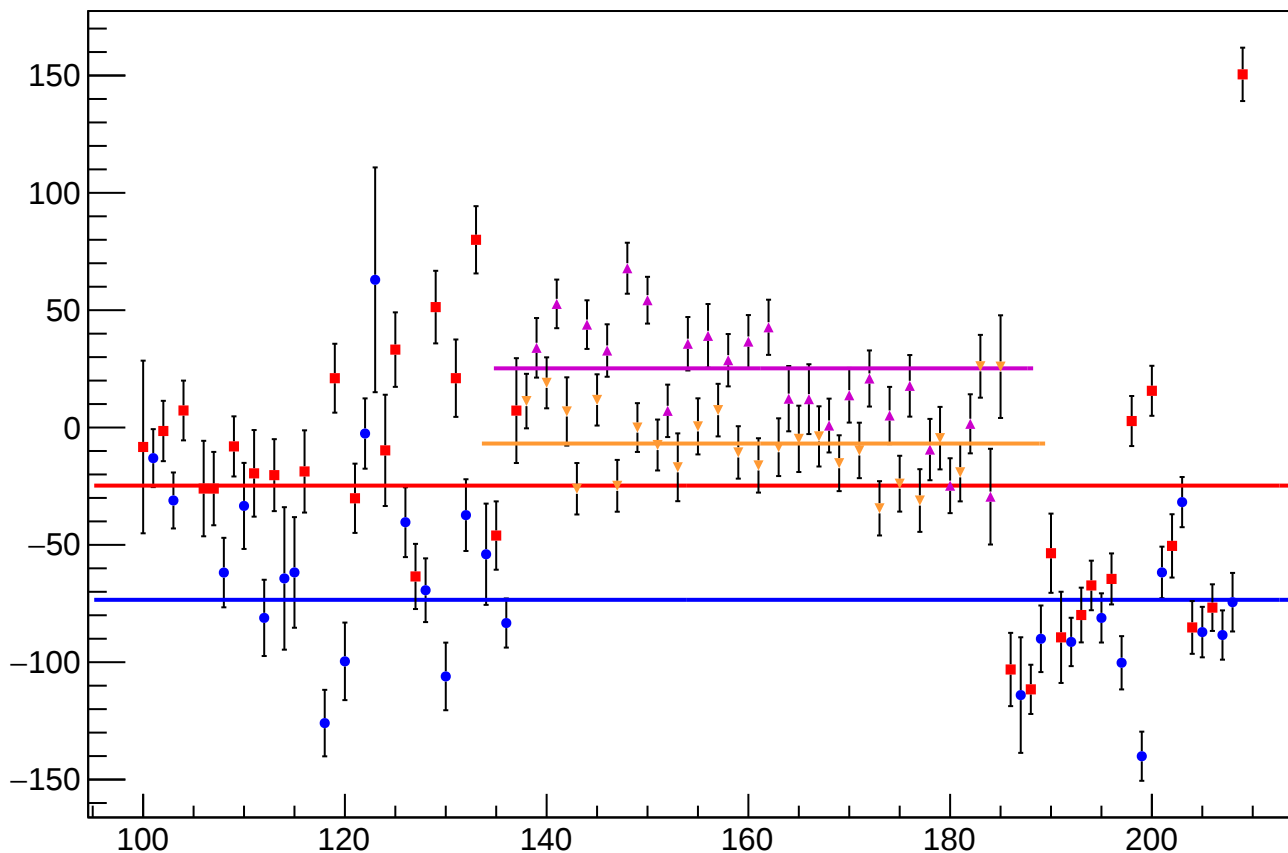
Right: 1673.540 +/- 0.219 χ^2/NDF : 2197473.7/59

In: 1798.839 +/- 0.231 χ^2/NDF : 2518370.2/50

Out: 1790.186 +/- 0.221 χ^2/NDF : 2778264.2/56

All: 1794.330 +/- 0.160 χ^2/NDF : 5297368.7/10

diff_bpm0l02X_mean vs Slug, Sign Corrected



Right In: -73.418 ± 2.541 $\chi^2/\text{NDF}: 180.4/27$

Left Out: -6.825 ± 2.423 $\chi^2/\text{NDF}: 42.3/24$

Right Out: -24.747 ± 2.435 $\chi^2/\text{NDF}: 610.6/31$

Left In: 25.215 ± 2.487 $\chi^2/\text{NDF}: 89.3/22$

Left: 8.777 ± 1.735 $\chi^2/\text{NDF}: 216.8/47$

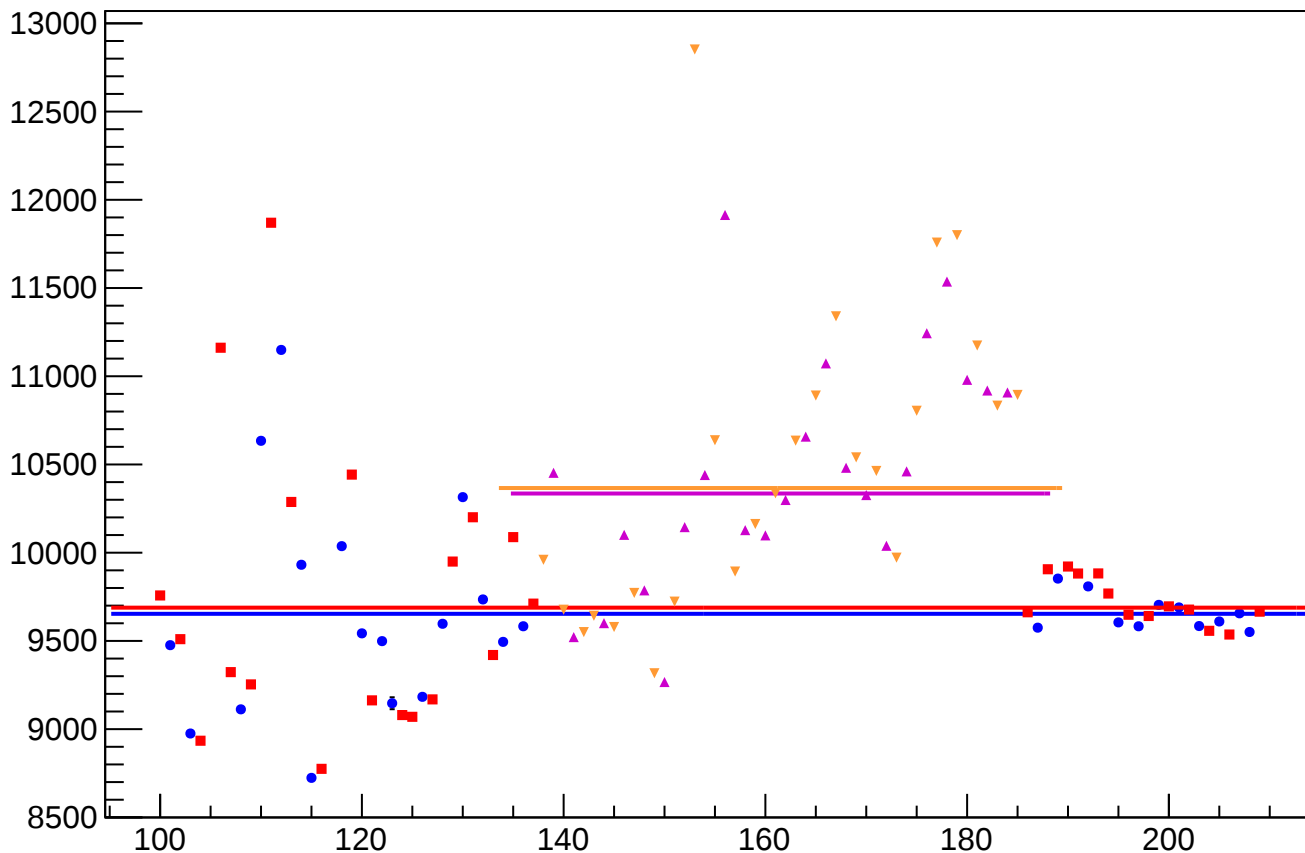
Right: -48.047 ± 1.758 $\chi^2/\text{NDF}: 982.2/59$

In: -23.031 ± 1.777 $\chi^2/\text{NDF}: 1039.3/50$

Out: -15.739 ± 1.717 $\chi^2/\text{NDF}: 680.1/56$

All: -19.260 ± 1.235 $\chi^2/\text{NDF}: 1728.1/107$

diff_bpm0l02X_rms vs Slug, Sign Corrected



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

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

Right Out: 9688.534 $\pm$ 1.722 χ^2 /NDF: 80349.4/31

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

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

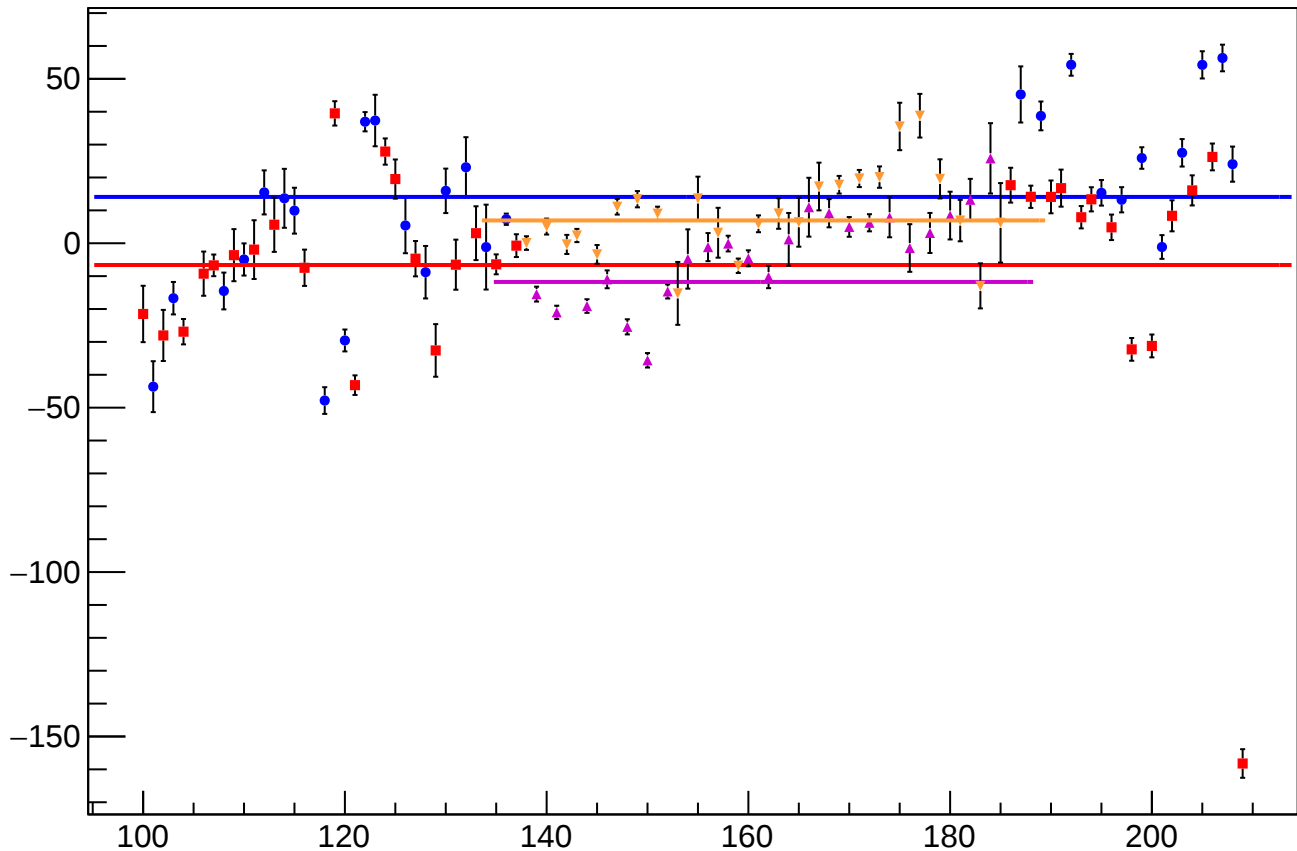
Right: 9671.823 $\pm$ 1.243 χ^2 /NDF: 125862.7/59

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

Out: 10029.308 $\pm$ 1.214 χ^2 /NDF: 369670.7/56

All: 10016.077 $\pm$ 0.873 χ^2 /NDF: 615949.4/10

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: -6.611 $\pm$ 0.783 χ^2 /NDF: 2024.7/31

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

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

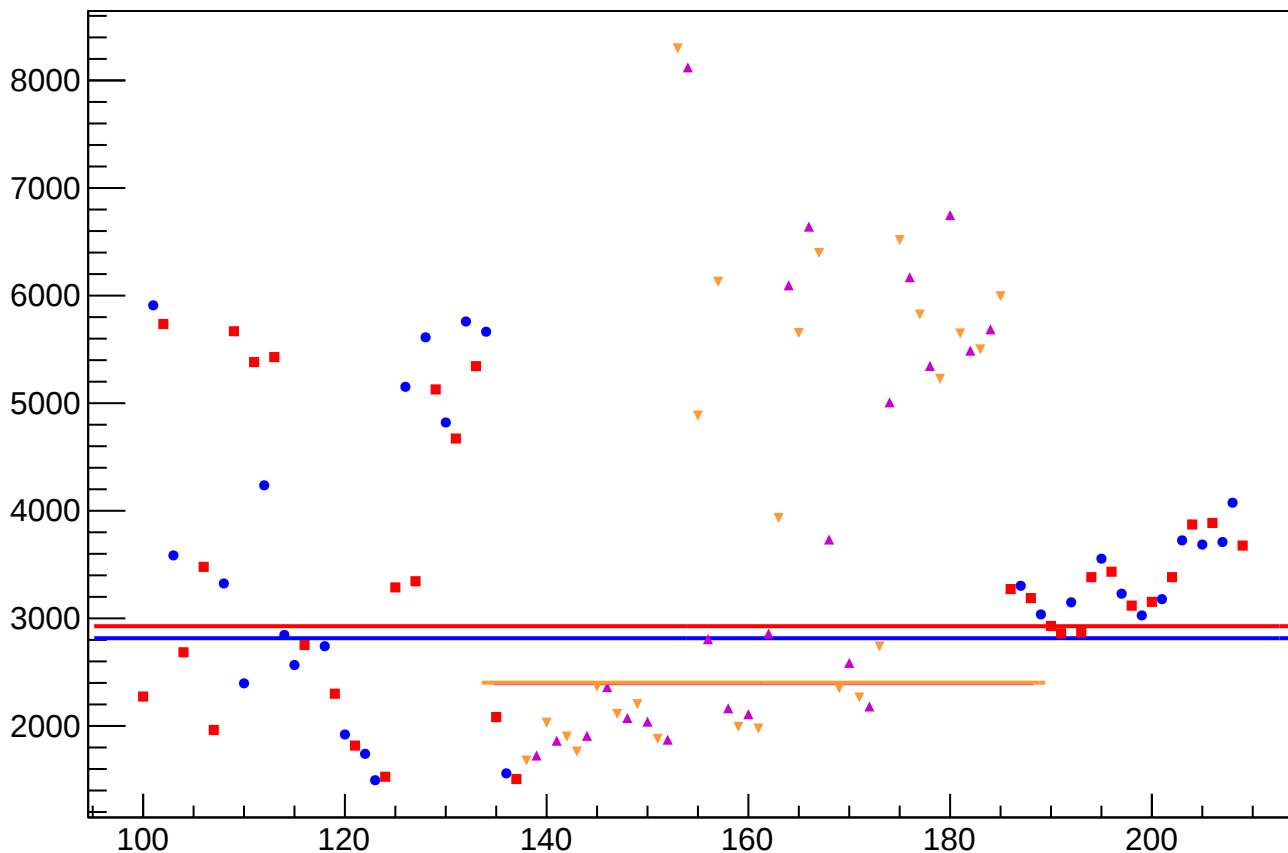
Right: 3.473 $\pm$ 0.560 χ^2 /NDF: 3442.9/59

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

Out: 1.521 $\pm$ 0.495 χ^2 /NDF:2408.5/56

All: 0.009 $\pm$ 0.353 χ^2 /NDF: 4527.6/107

diff_bpm0l02Y_rms vs Slug, Sign Corrected



Right In: 2815.475 ± 0.568

χ^2/NDF : 3456751.0/27

Left: 2400.065 ± 0.322 χ^2/NDF : 11744955.3/47

Right: 2872.797 ± 0.396 χ^2/NDF : 6415813.2/59

Left Out: 2402.359 ± 0.452

χ^2/NDF : 6345982.8/24

In: 2562.577 ± 0.357 χ^2/NDF : 9183394.1/50

Right Out: 2927.243 ± 0.553

χ^2/NDF : 2939189.4/31

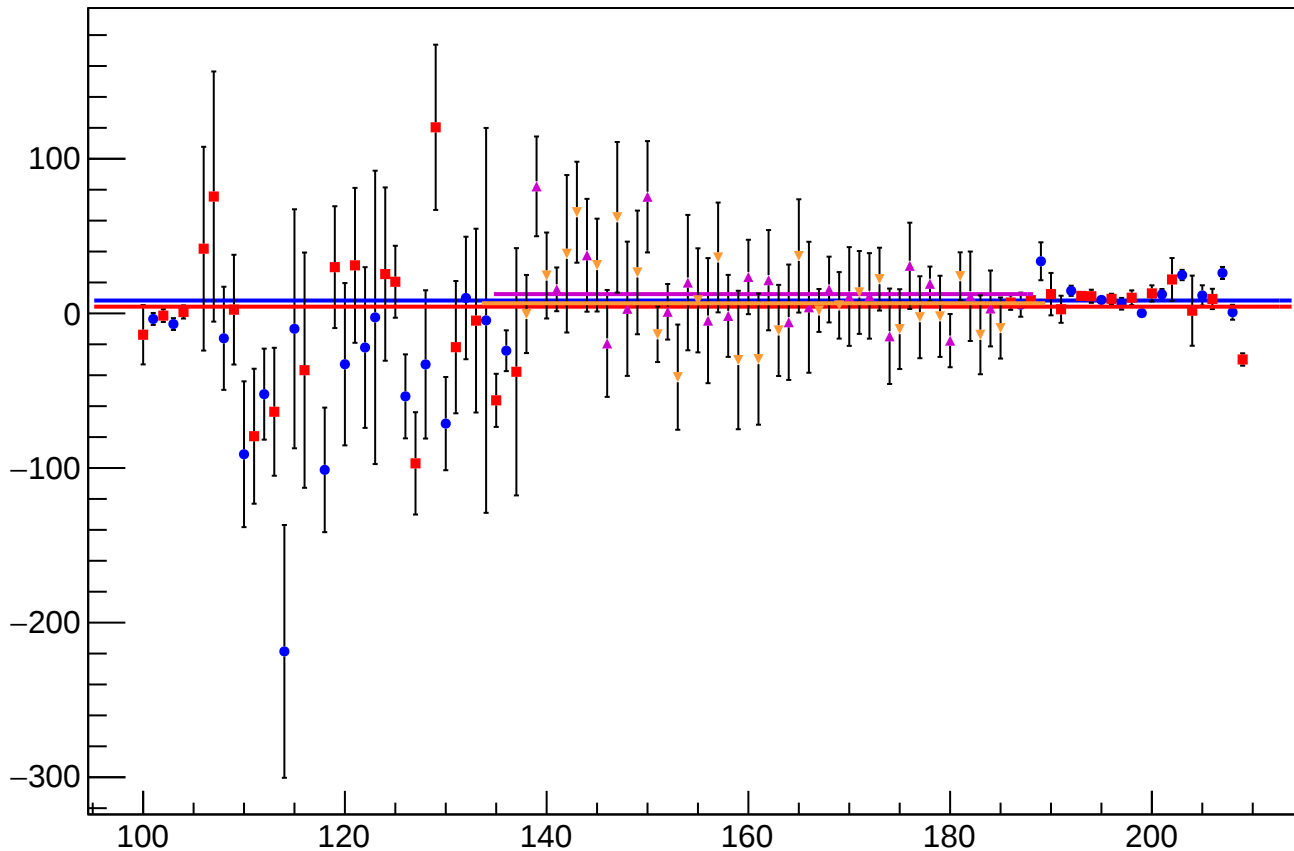
Out: 2612.225 ± 0.350 χ^2/NDF : 9825147.8/56

Left In: 2397.701 ± 0.458

χ^2/NDF : 5398920.1/22

All: 2587.878 ± 0.250 χ^2/NDF : 19018414.9/13

diff_bpm0l03X_mean vs Slug, Sign Corrected



Right In: 8.325 ± 1.089 χ^2/NDF : 134.3/27

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

Right Out: 4.355 ± 1.164 χ^2/NDF : 132.4/31

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

Left: 9.545 ± 3.572 χ^2/NDF : 32.8/47

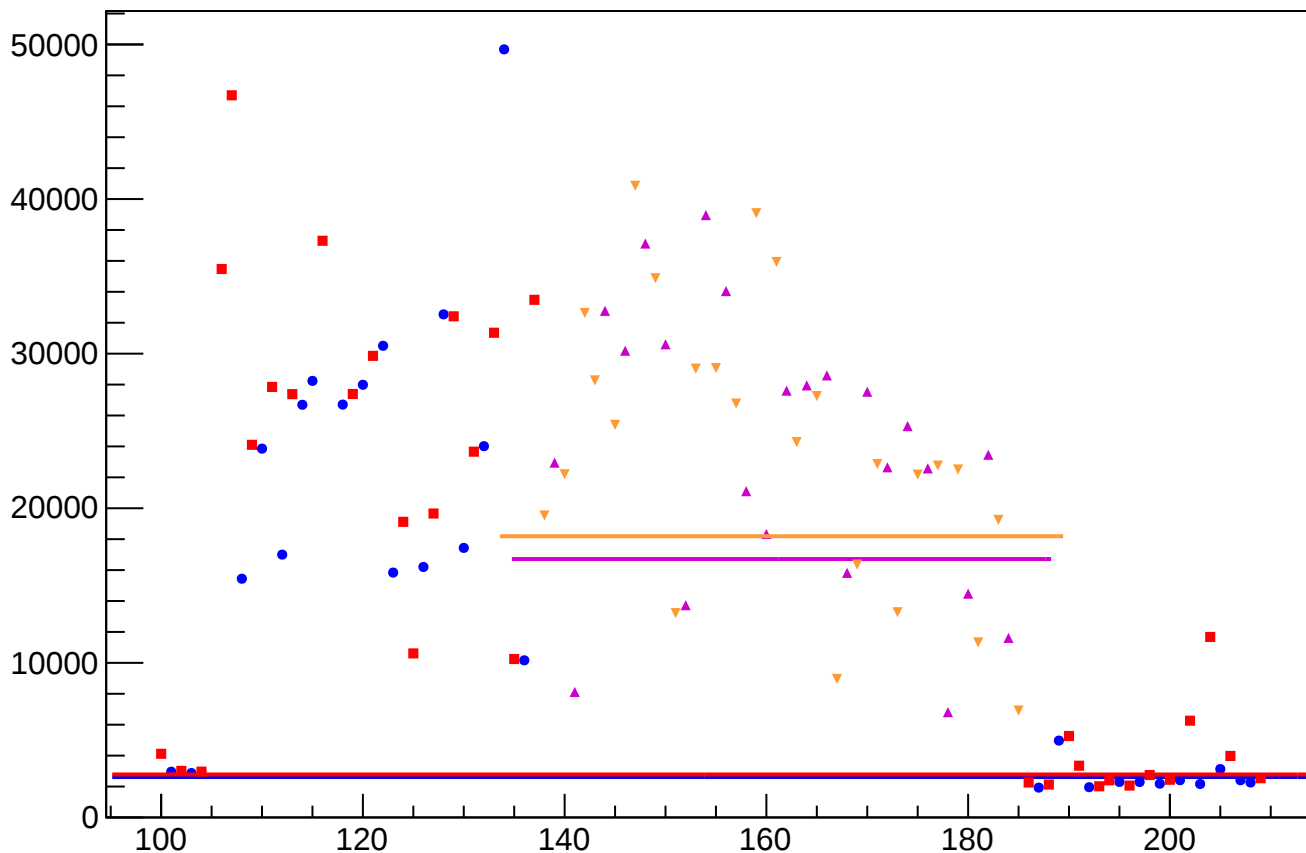
Right: 6.472 ± 0.795 χ^2/NDF : 272.8/59

In: 8.511 ± 1.064 χ^2/NDF : 150.4/50

Out: 4.465 ± 1.135 χ^2/NDF : 149.3/56

All: 6.617 ± 0.776 χ^2/NDF : 306.4/107

diff_bpm0l03X_rms vs Slug, Sign Corrected



Right In: 2615.933 $\pm$ 0.770 χ^2/NDF : 6997786.7/27

Left Out: 18190.387 $\pm$ 3.590 χ^2/NDF : 5261328.5/24

Right Out: 2779.399 $\pm$ 0.823 χ^2/NDF : 9062557.7/31

Left In: 16713.653 $\pm$ 3.553 χ^2/NDF : 6194178.8/22

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

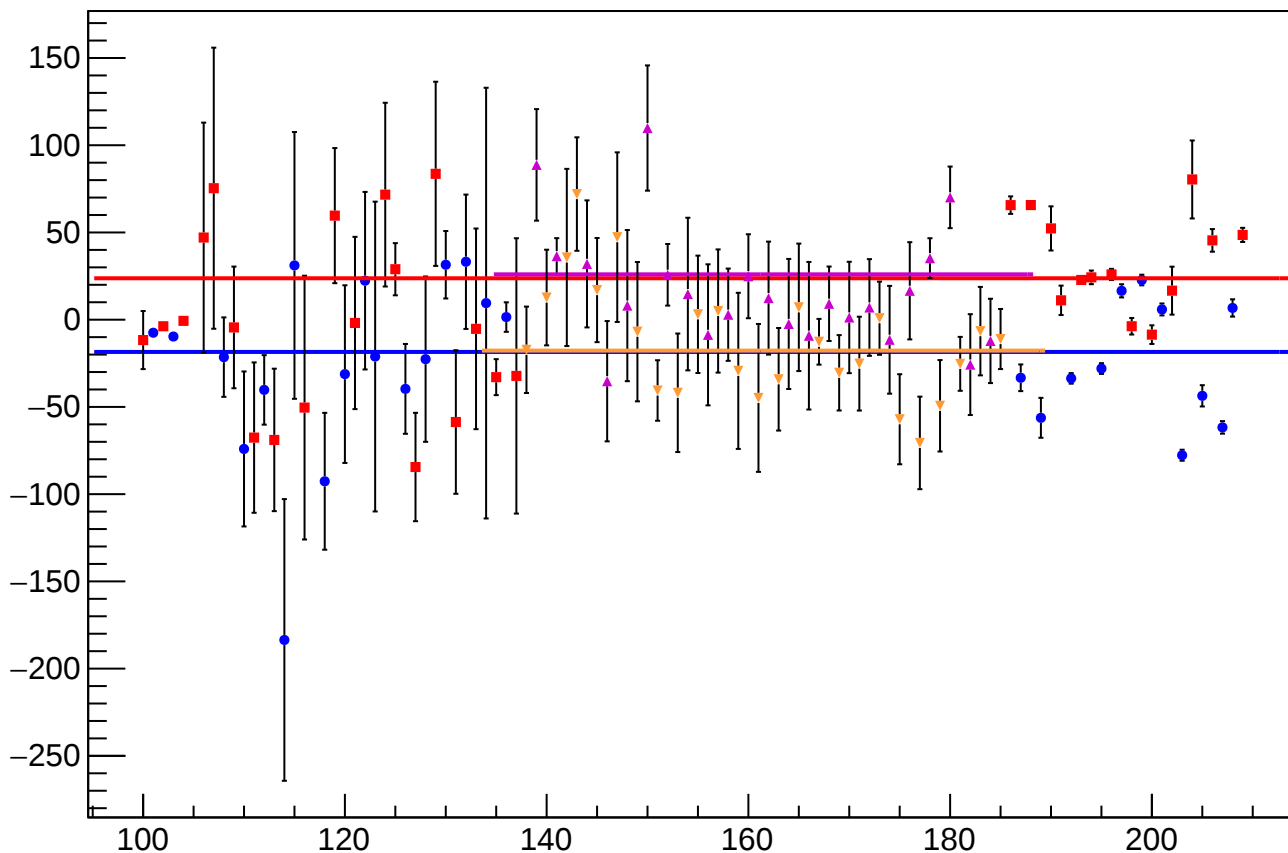
Right: 2692.232 $\pm$ 0.562 χ^2/NDF : 16081371.2/59

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

Out: 3549.116 $\pm$ 0.802 χ^2/NDF : 31828454.7/56

All: 3389.206 $\pm$ 0.549 χ^2/NDF : 60128950.2/100

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: 23.738 ± 1.035 χ^2/NDF : 679.0/31

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

Left: 4.967 ± 3.450 χ^2/NDF : 99.8/47

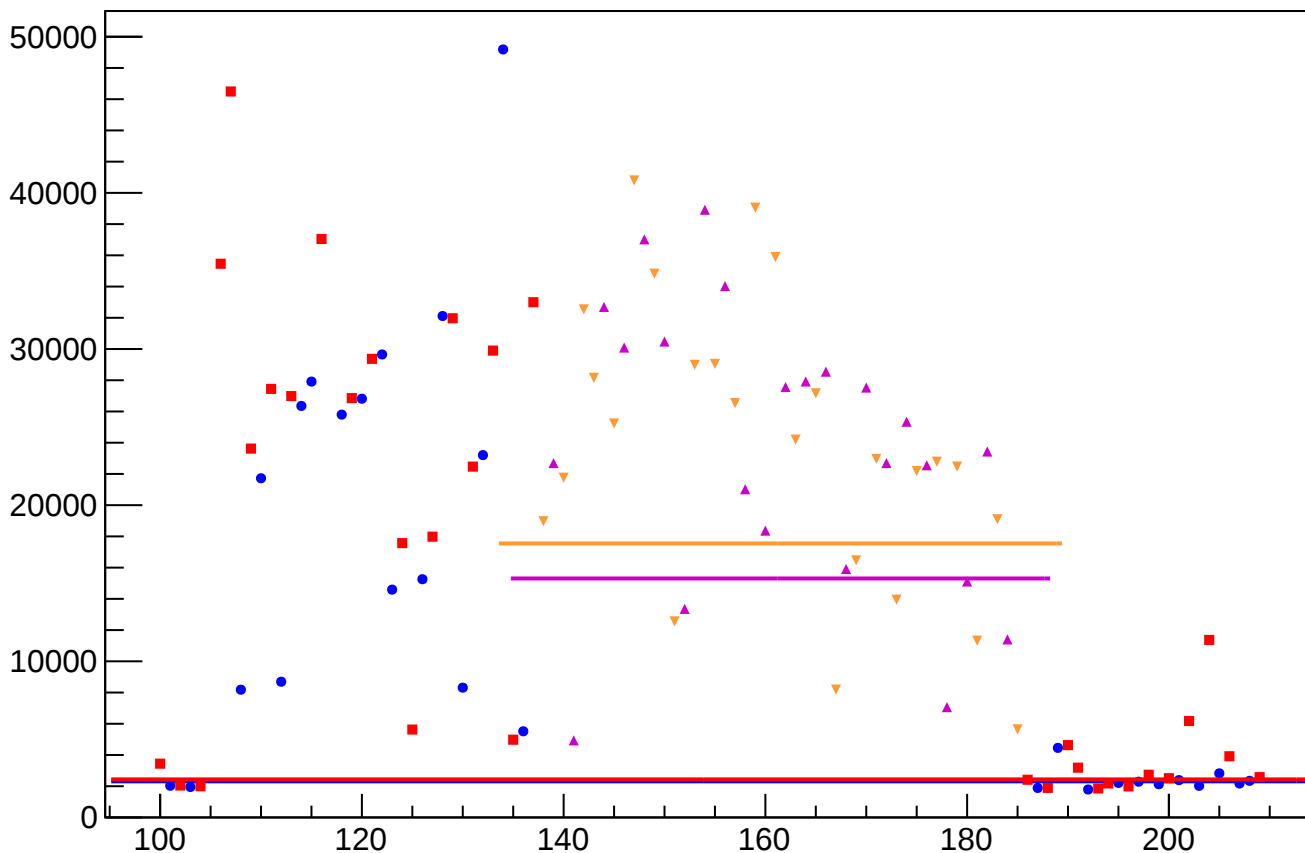
Right: 1.247 ± 0.708 χ^2/NDF : 2528.6/59

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

Out: 22.017 ± 1.013 χ^2/NDF : 772.7/56

All: 1.397 ± 0.693 χ^2/NDF : 2629.5/107

diff_bpm0l03Y_rms vs Slug, Sign Corrected



Right In: 2314.517 ± 0.685 $\chi^2/\text{NDF}: 5812391.2/27$

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

Right Out: 2436.812 ± 0.732 $\chi^2/\text{NDF}: 8749904.9/31$

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

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

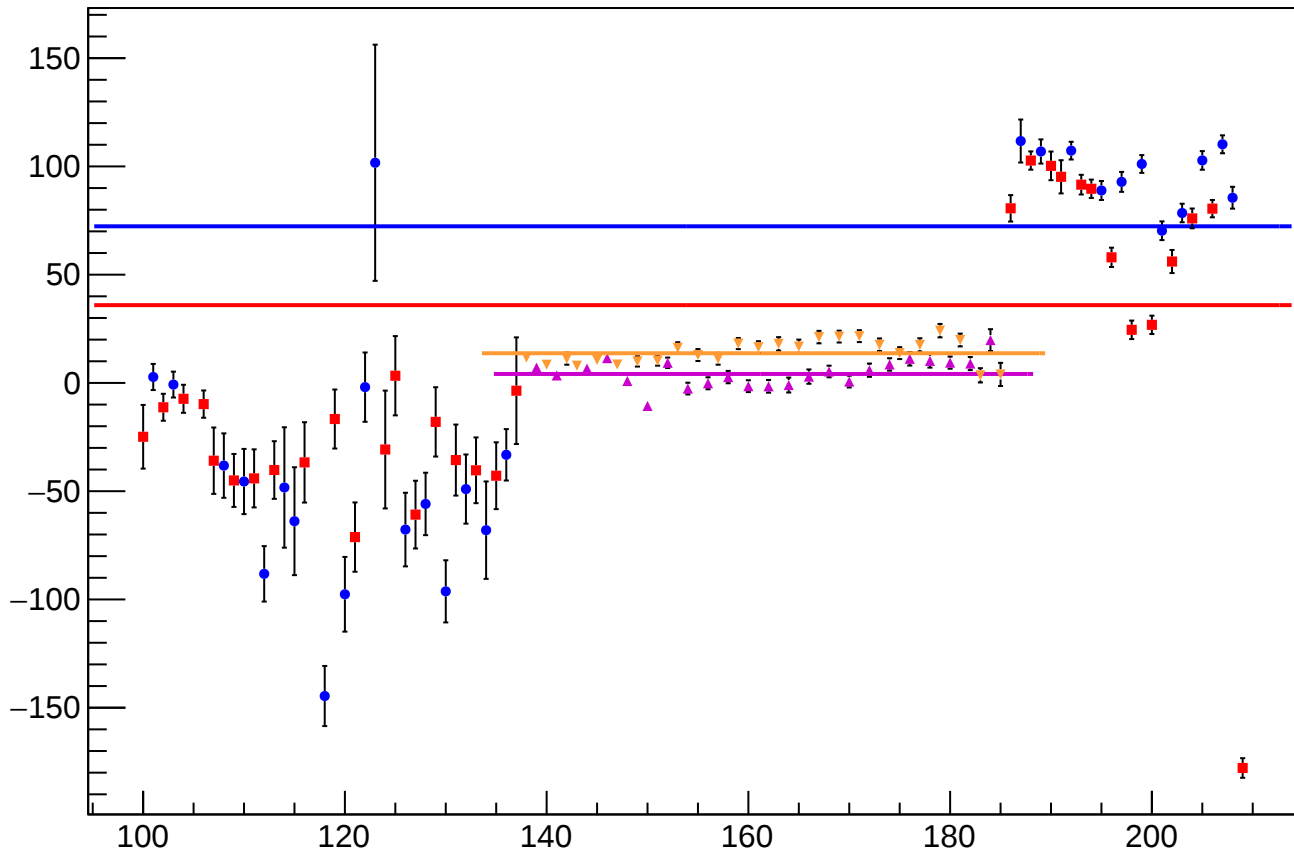
Right: 2371.657 ± 0.500 $\chi^2/\text{NDF}: 14577169.8/59$

In: 2825.834 ± 0.672 $\chi^2/\text{NDF}: 27671765.1/50$

Out: 3063.929 ± 0.717 $\chi^2/\text{NDF}: 32339785.8/56$

All: 2937.212 ± 0.490 $\chi^2/\text{NDF}: 60070307.8/100$

diff_bpm0l04X_mean vs Slug, Sign Corrected



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

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

Right Out: 35.923+/-1.177 χ^2/NDF : 3754.8/31

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

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

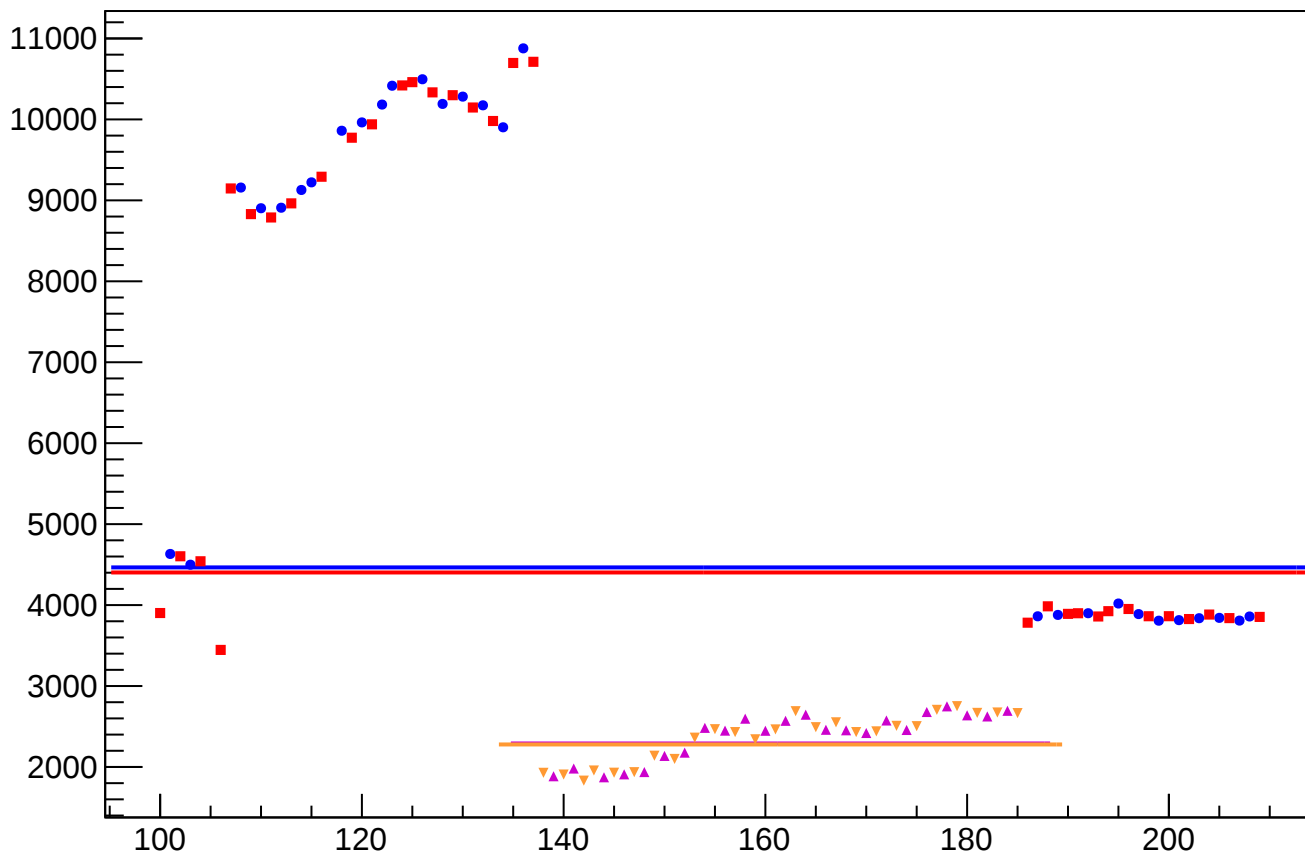
Right: 52.926+/-0.859 χ^2/NDF : 5982.8/59

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

Out: 17.516+/-0.487 χ^2/NDF : 4139.7/56

All: 16.429+/-0.352 χ^2/NDF : 8504.3/107

diff_bpm0l04X_rms vs Slug, Sign Corrected



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

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

Right Out: 4402.817+/-0.832 χ^2/NDF : 3815835.2/31

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

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

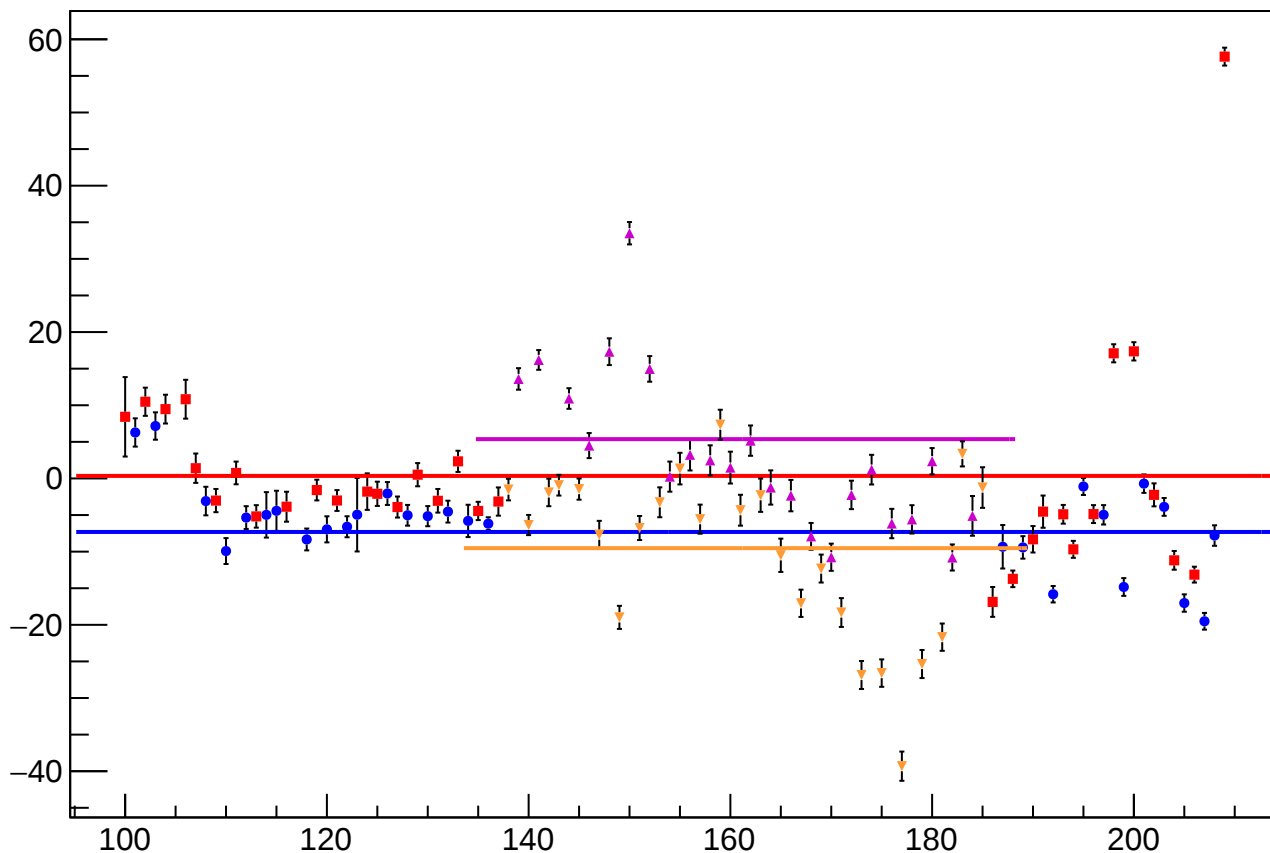
Right: 4432.081+/-0.608 χ^2/NDF : 7578853.6/59

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

Out: 2642.149+/-0.345 χ^2/NDF : 9822479.4/56

All: 2643.426+/-0.249 χ^2/NDF : 19181010.7/100

diff_bpm0l04Y_mean vs Slug, Sign Corrected



Right In: -7.311 ± 0.277 $\chi^2/\text{NDF}: 488.6/27$

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

Right Out: 0.348 ± 0.267 $\chi^2/\text{NDF}: 3298.0/31$

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

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

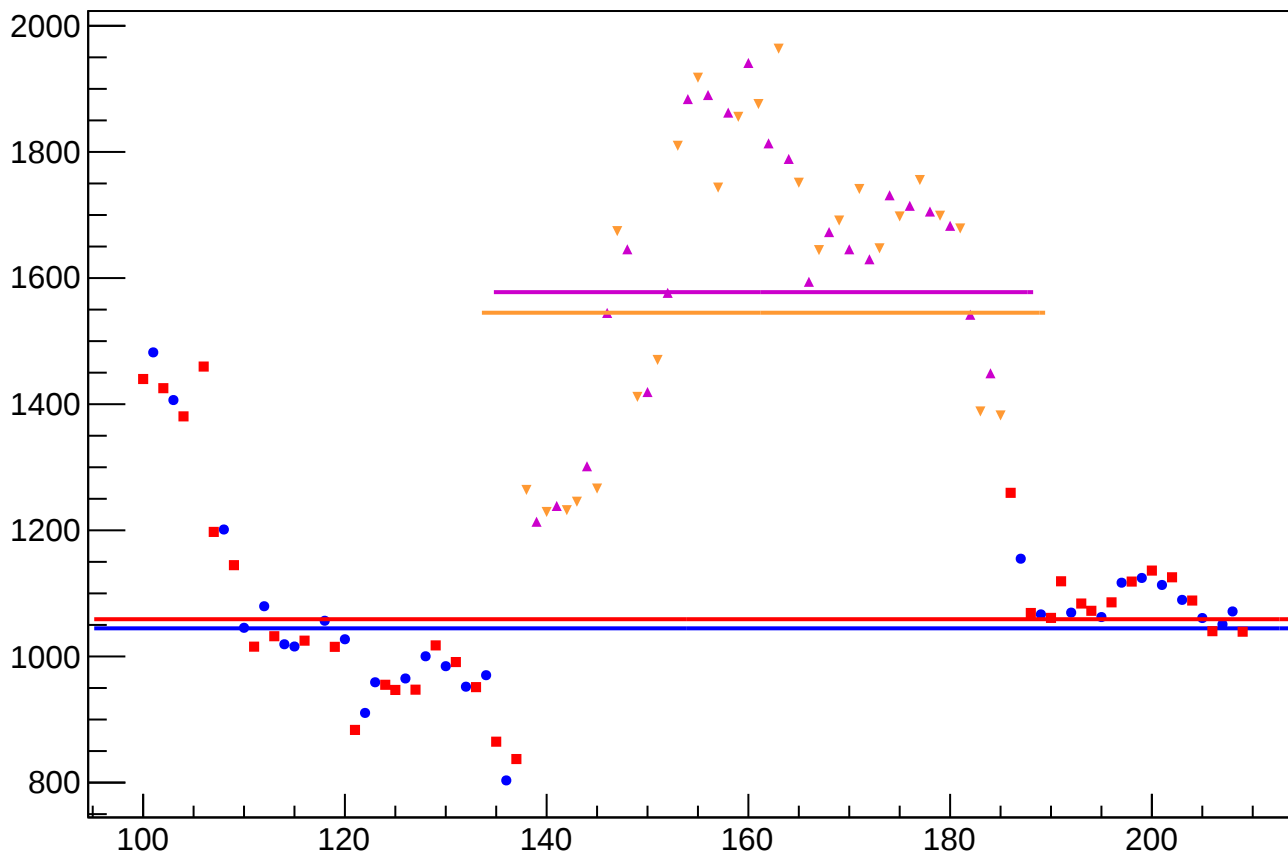
Right: -3.353 ± 0.192 $\chi^2/\text{NDF}: 4183.1/59$

In: -2.963 ± 0.224 $\chi^2/\text{NDF}: 2079.6/50$

Out: -3.103 ± 0.216 $\chi^2/\text{NDF}: 4658.6/56$

All: -3.036 ± 0.155 $\chi^2/\text{NDF}: 6738.3/107$

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: 1059.071 $\pm$ 0.189 χ^2 /NDF: 388164.2/31

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

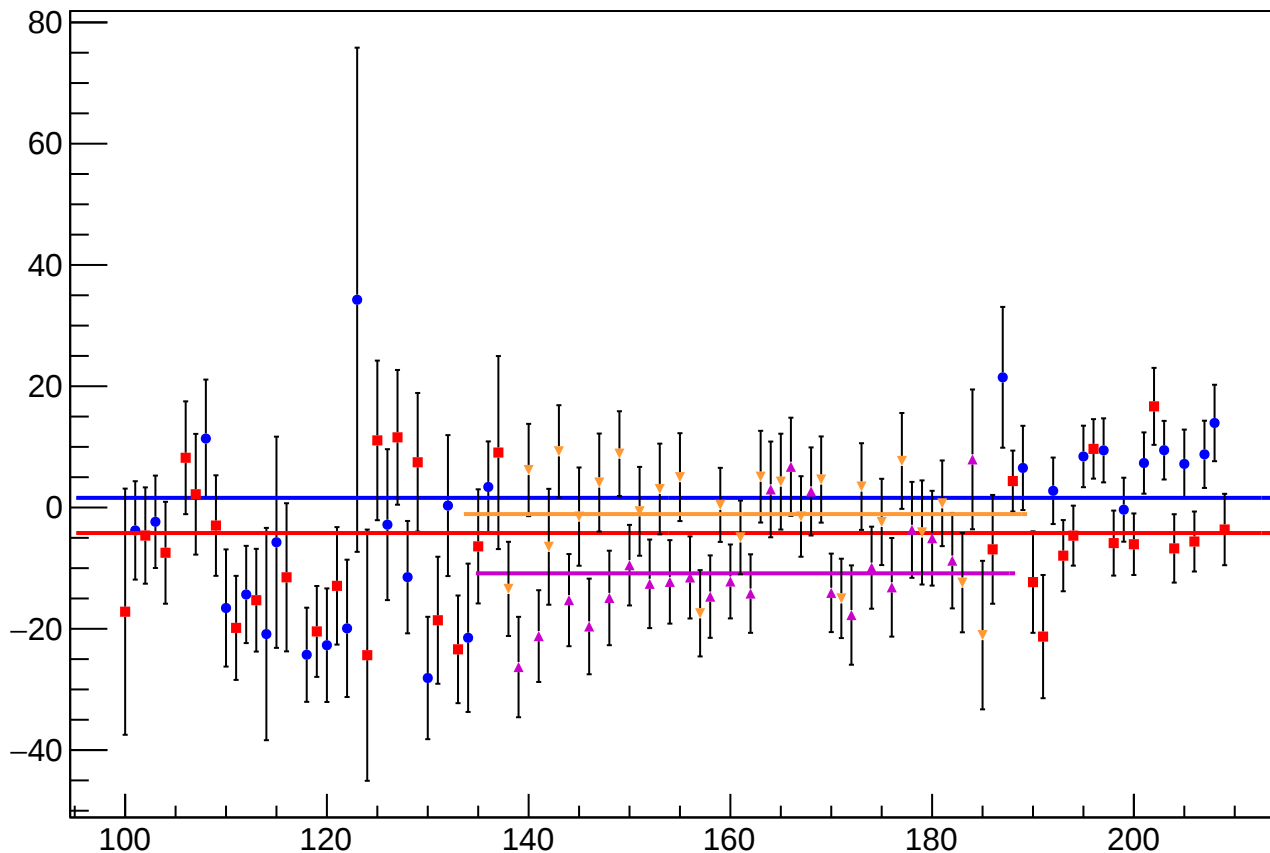
Right: 1052.077 $\pm$ 0.136 χ^2 /NDF: 802124.8/59

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

Out: 1228.923 $\pm$ 0.152 χ^2 /NDF: 3540110.4/56

All: 1228.161 $\pm$ 0.110 χ^2 /NDF: 7124434.3/106

diff_bpm0l05X_mean vs Slug, Sign Corrected



Right In: 1.593 ± 1.394 $\chi^2/\text{NDF}: 65.6/27$

Left Out: -1.083 ± 1.487 $\chi^2/\text{NDF}: 27.5/24$

Right Out: -4.205 ± 1.314 $\chi^2/\text{NDF}: 52.9/31$

Left In: -10.851 ± 1.542 $\chi^2/\text{NDF}: 24.4/22$

Left: -5.792 ± 1.070 $\chi^2/\text{NDF}: 72.7/47$

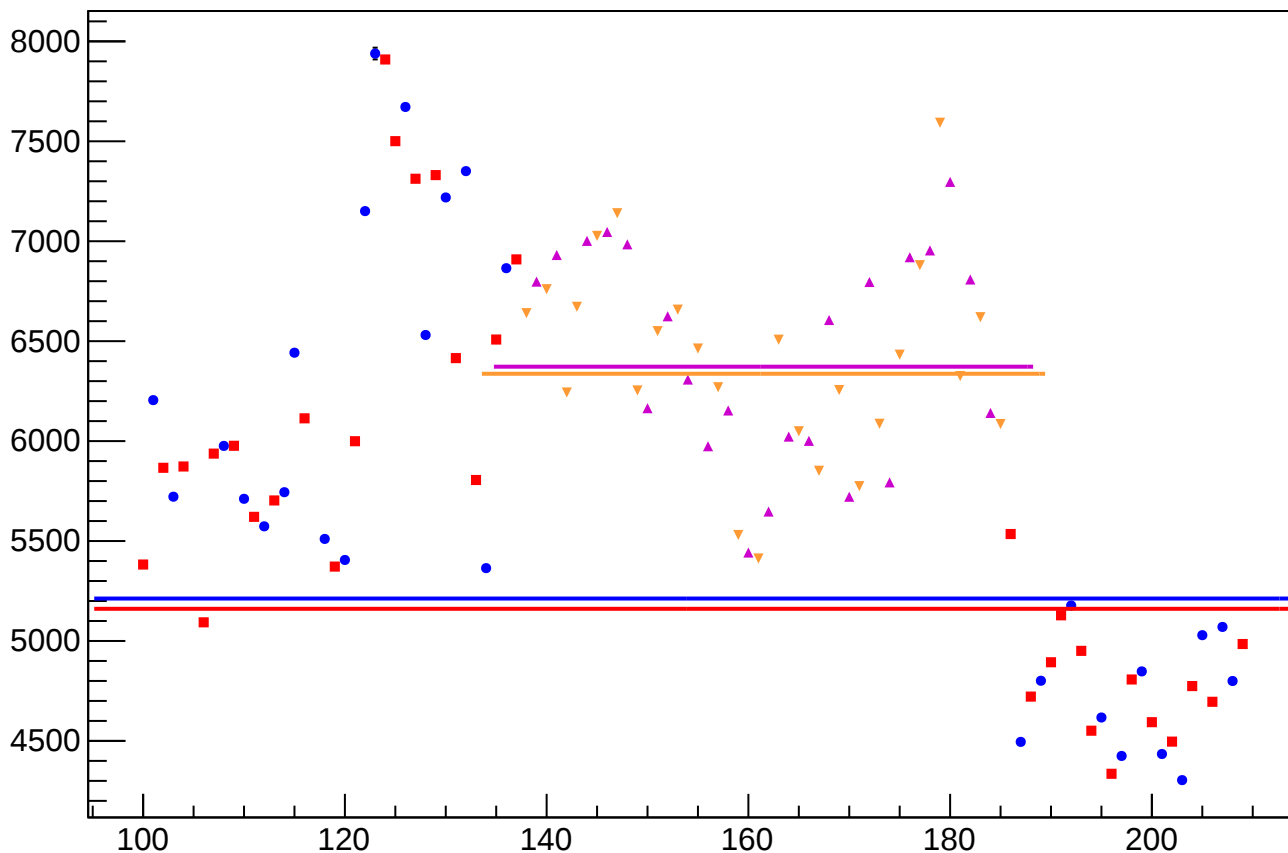
Right: -1.477 ± 0.956 $\chi^2/\text{NDF}: 127.6/59$

In: -4.003 ± 1.034 $\chi^2/\text{NDF}: 125.8/50$

Out: -2.837 ± 0.985 $\chi^2/\text{NDF}: 82.8/56$

All: -3.392 ± 0.713 $\chi^2/\text{NDF}: 209.3/107$

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: 5160.921 $\pm$ 0.929 χ^2/NDF : 649554.4/31

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

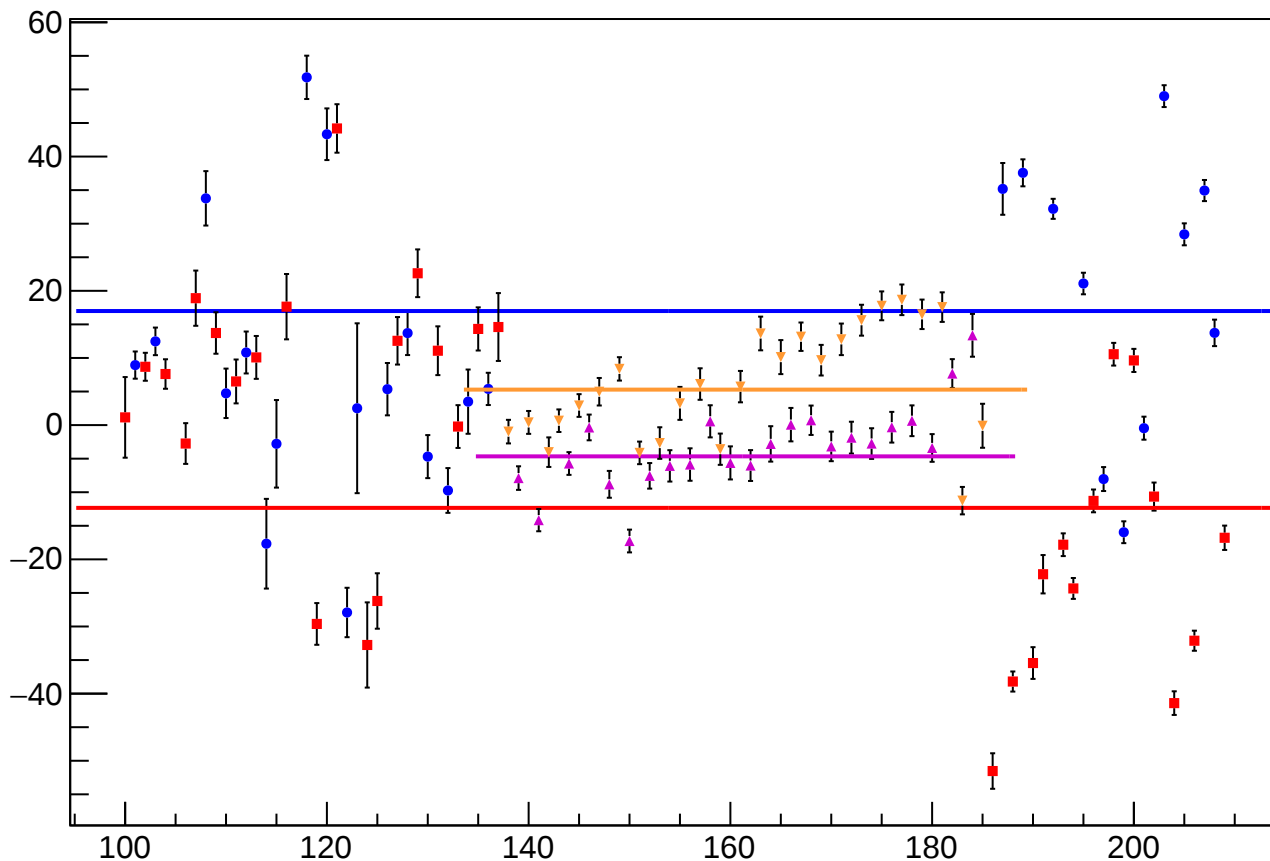
Right: 5185.097 $\pm$ 0.676 χ^2/NDF : 1383380.0/59

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

Out: 5676.384 $\pm$ 0.696 χ^2/NDF :1574855.0/56

All: 5703.762 $\pm$ 0.504 χ^2/NDF : 3180967.5/10

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: -12.331 $\pm$ 0.419 χ^2 /NDF: 2542.0/31

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

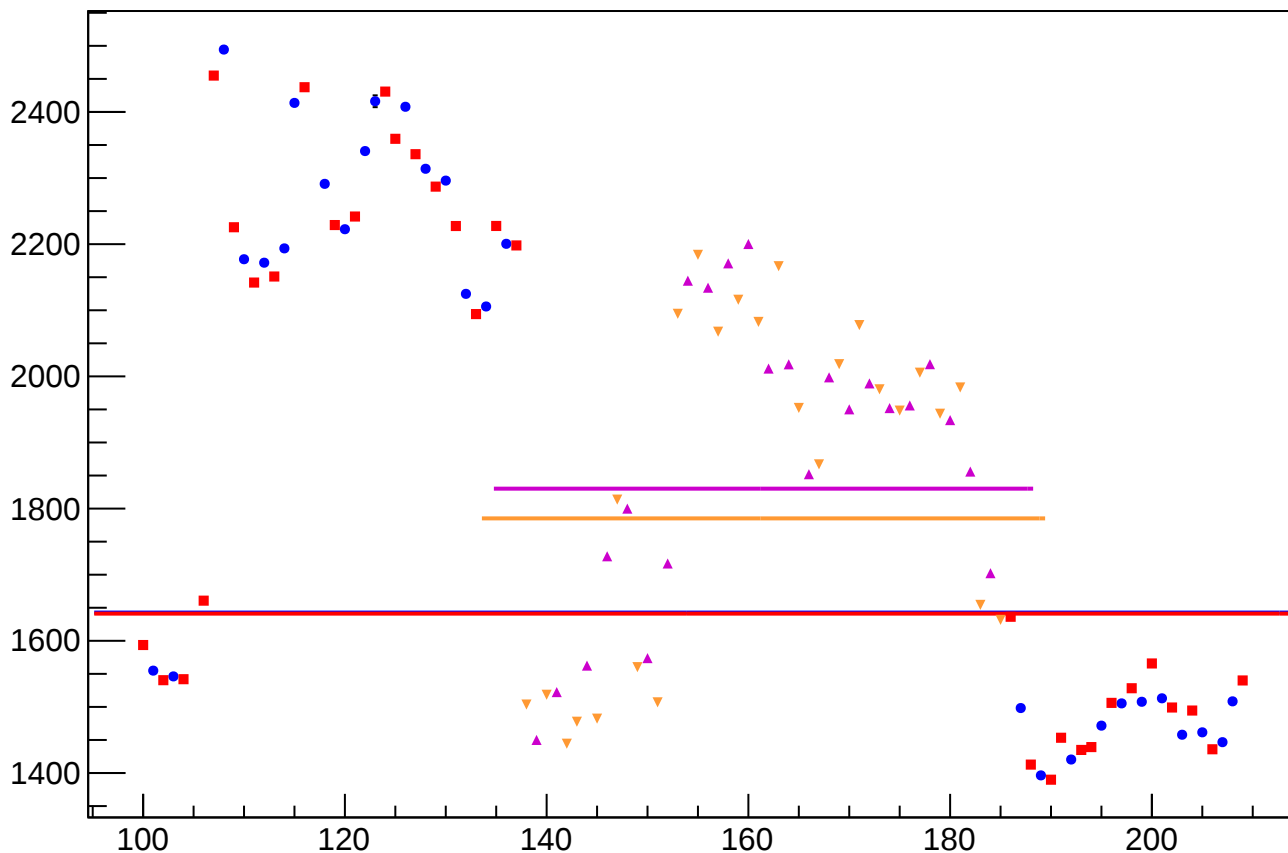
Right: 1.618 $\pm$ 0.303 χ^2 /NDF: 6941.6/59

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

Out: -3.557 $\pm$ 0.297 χ^2 /NDF:3788.0/56

All: 1.099 $\pm$ 0.215 χ^2 /NDF: 7774.6/107

diff_bpm0l05Y_rms vs Slug, Sign Corrected



Right In: 1642.714 $\pm$ 0.311 χ^2 /NDF: 1083449.2/27

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

Right Out: 1641.132 $\pm$ 0.296 χ^2 /NDF: 1088925.8/31

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

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

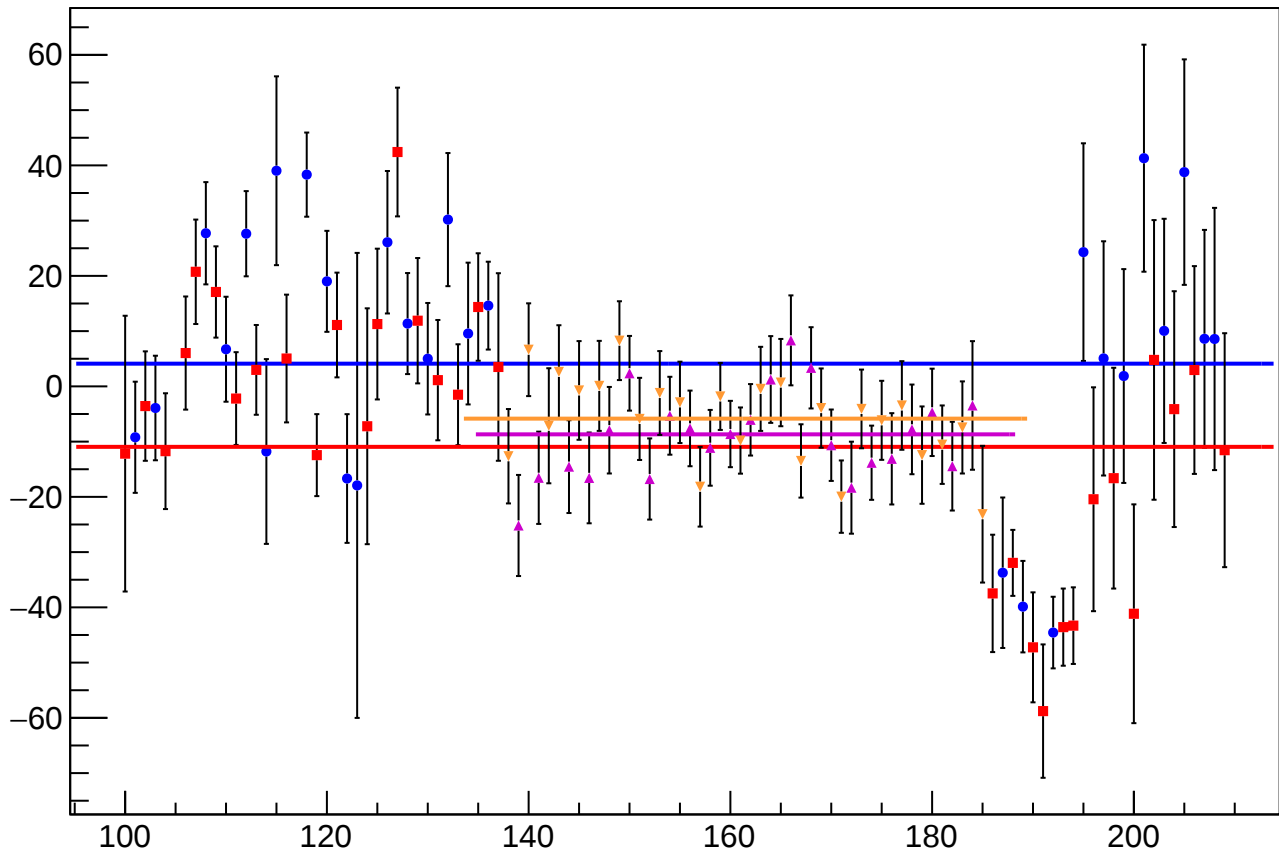
Right: 1641.884 $\pm$ 0.215 χ^2 /NDF: 2172388.6/59

In: 1735.714 $\pm$ 0.221 χ^2 /NDF: 1771987.3/50

Out: 1712.878 $\pm$ 0.210 χ^2 /NDF: 1957252.5/56

All: 1723.719 $\pm$ 0.152 χ^2 /NDF: 3734857.5/100

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: -10.946 ± 1.854 χ^2/NDF : 169.8/31

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

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

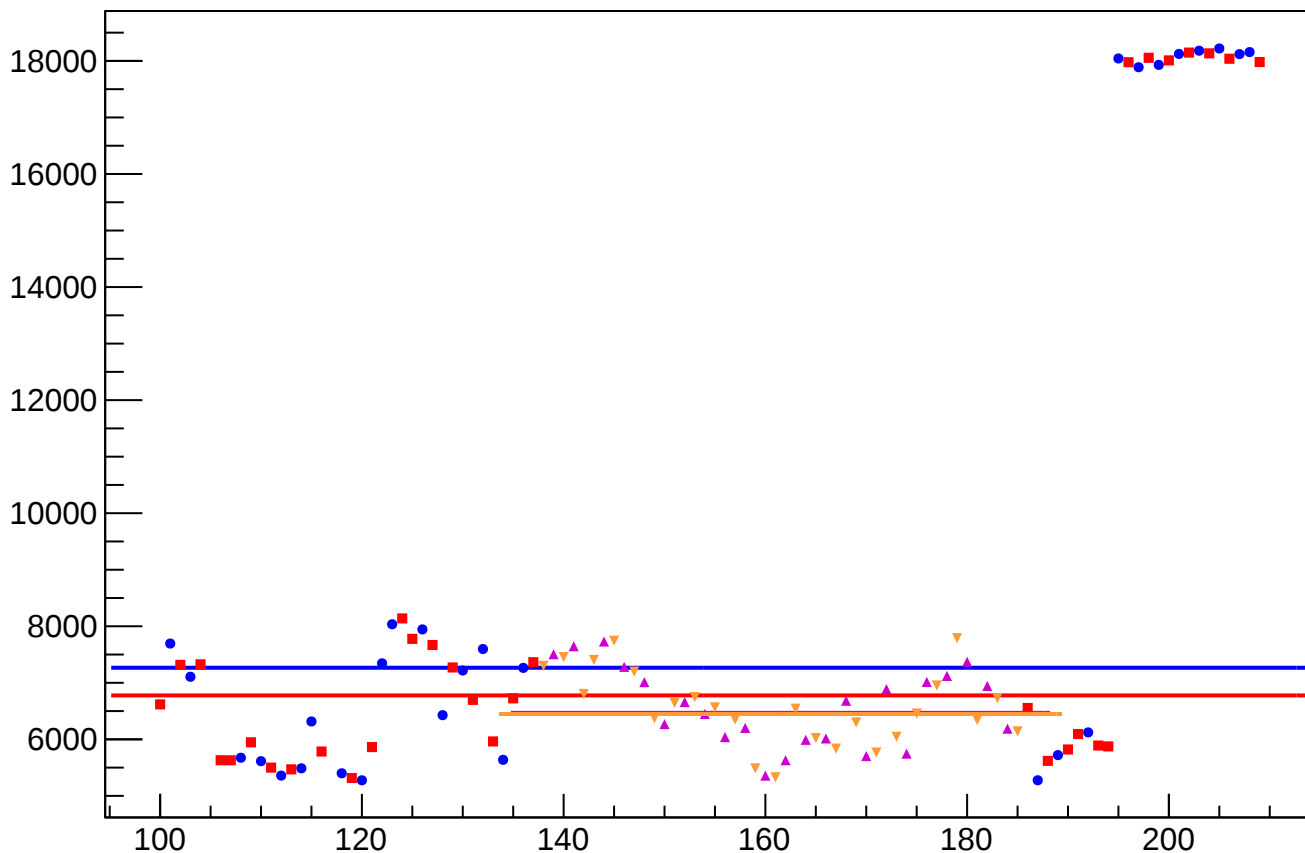
Right: -4.396 ± 1.393 χ^2/NDF : 358.1/59

In: -4.128 ± 1.260 χ^2/NDF : 205.2/50

Out: -7.890 ± 1.175 χ^2/NDF : 197.7/56

All: -6.142 ± 0.859 χ^2/NDF : 407.6/107

diff_bpm0l06X_rms vs Slug, Sign Corrected



Right In: 7266.349 ± 1.494 $\chi^2/\text{NDF}: 5170580.3/27$

Left Out: 6447.712 ± 1.074 $\chi^2/\text{NDF}: 371671.1/24$

Right Out: 6777.271 ± 1.311 $\chi^2/\text{NDF}: 4654094.2/31$

Left In: 6468.902 ± 1.111 $\chi^2/\text{NDF}: 383325.4/22$

Left: 6457.948 ± 0.772 $\chi^2/\text{NDF}: 755184.7/47$

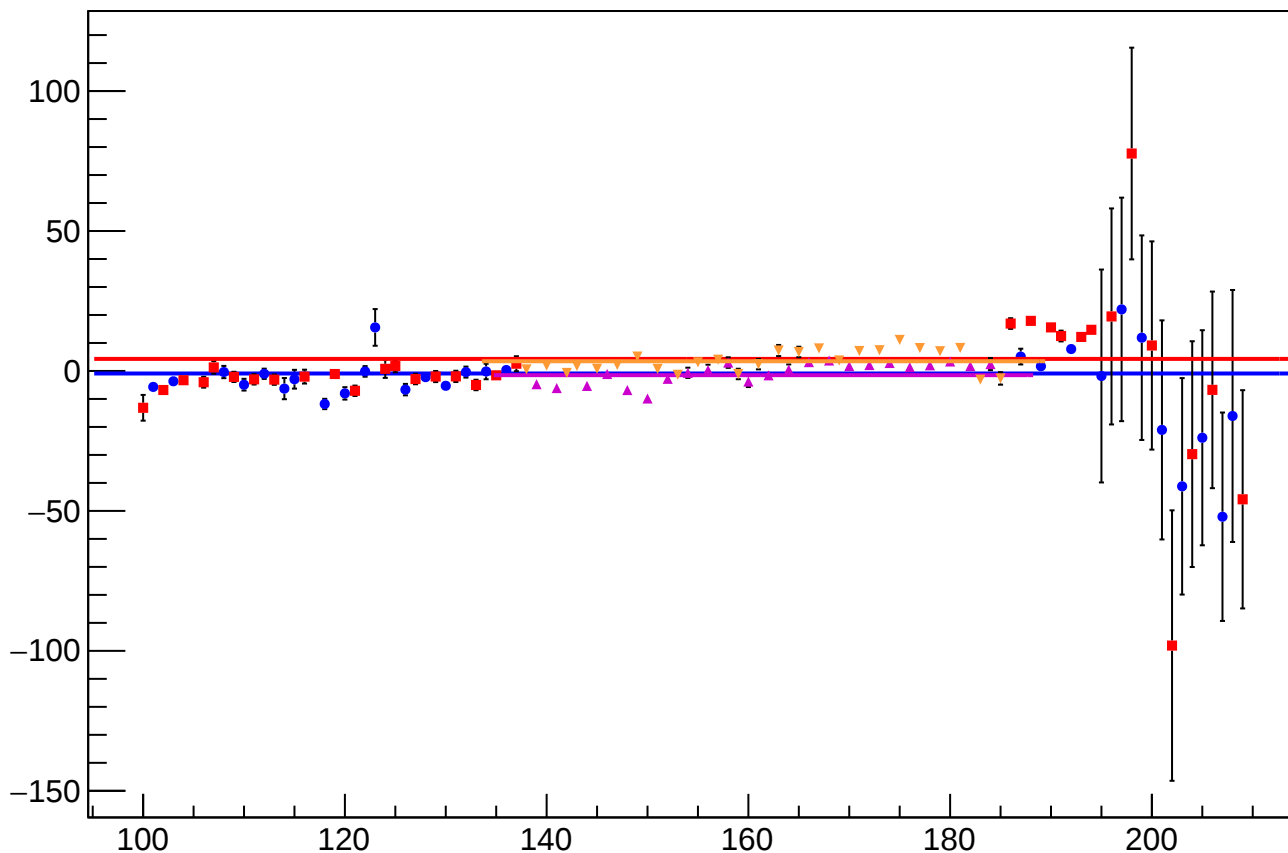
Right: 6990.058 ± 0.985 $\chi^2/\text{NDF}: 9885248.5/59$

In: 6752.820 ± 0.891 $\chi^2/\text{NDF}: 5737478.4/50$

Out: 6580.035 ± 0.831 $\chi^2/\text{NDF}: 5063599.4/56$

All: 6660.349 ± 0.608 $\chi^2/\text{NDF}: 10821194.8/102$

diff_bpm0l06Y_mean vs Slug, Sign Corrected



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

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

Right Out: 4.309 ± 0.355 χ^2/NDF : 672.9/31

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

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

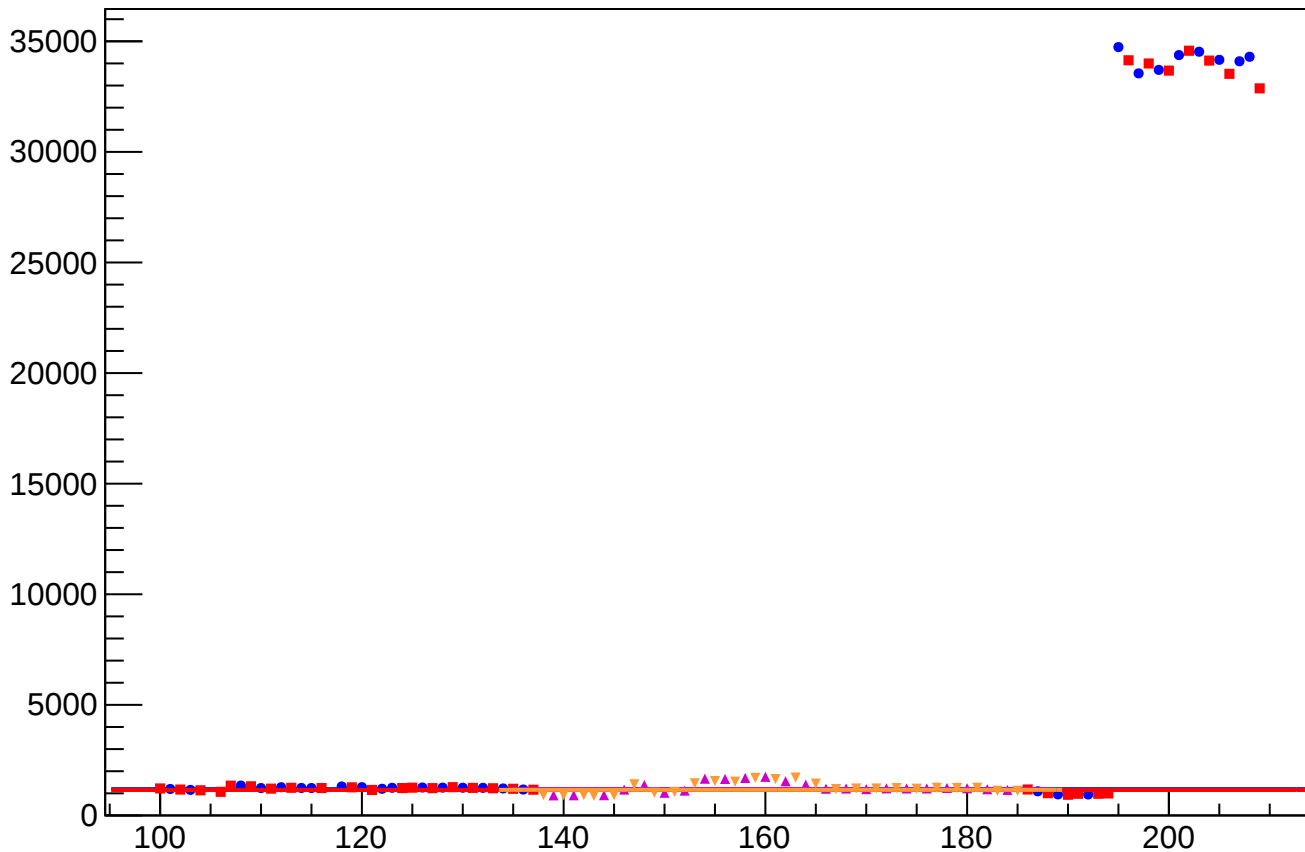
Right: 2.052 ± 0.267 χ^2/NDF : 942.0/59

In: -1.299 ± 0.236 χ^2/NDF : 379.6/50

Out: 3.787 ± 0.218 χ^2/NDF : 852.4/56

All: 1.449 ± 0.160 χ^2/NDF : 1482.4/107

diff_bpm0l06Y_rms vs Slug, Sign Corrected



Right In: 1187.720+/-0.287

χ^2/NDF : 11716655.3/27

Left: 1171.274+/-0.142

χ^2/NDF : 2609306.9/47

Left Out: 1158.894+/-0.195

χ^2/NDF : 1410423.6/24

Right: 1167.138+/-0.189

χ^2/NDF : 21790100.8/59

Right Out: 1151.413+/-0.251

χ^2/NDF : 10064361.3/31

In: 1185.901+/-0.167

χ^2/NDF : 12907147.7/50

Out: 1156.066+/-0.154

χ^2/NDF : 11475338.7/56

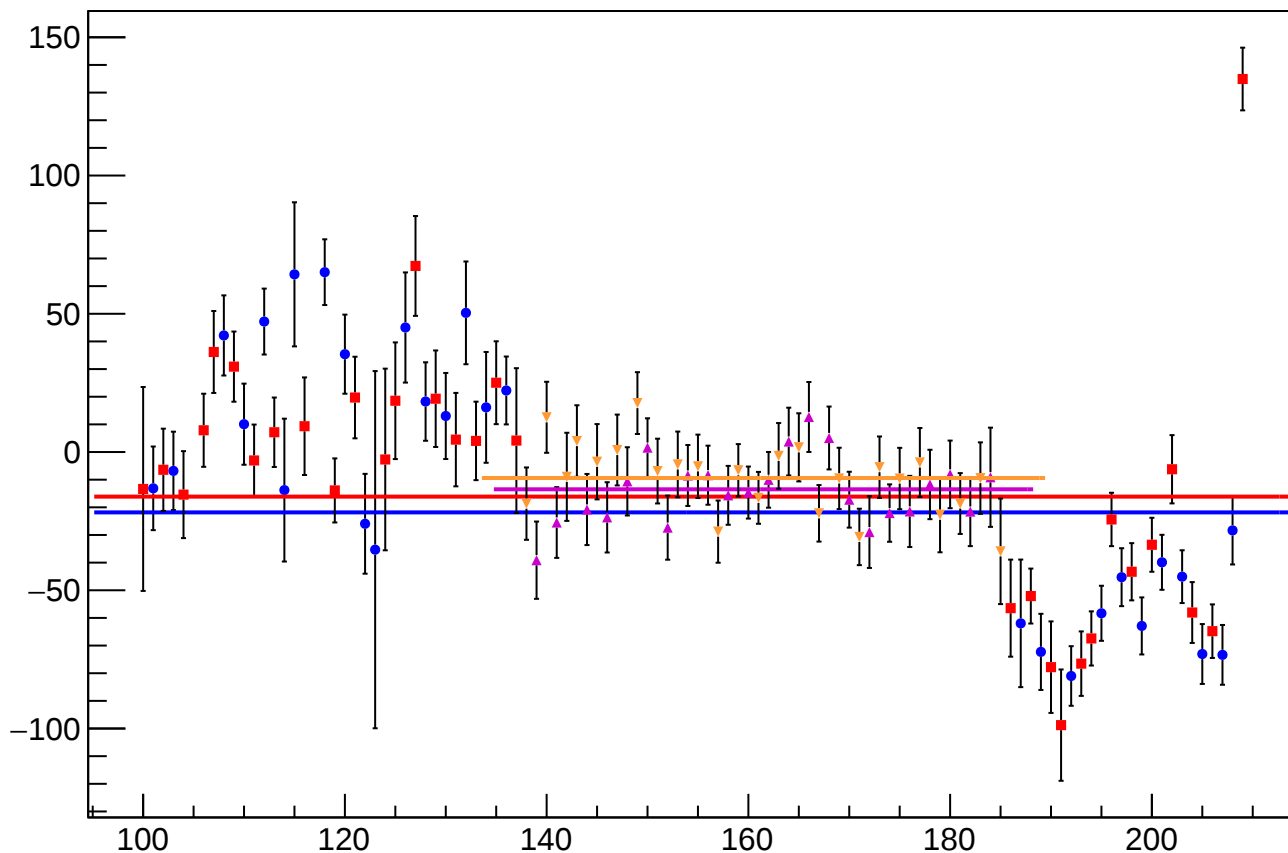
Left In: 1184.966+/-0.206

χ^2/NDF : 1190431.5/22

All: 1169.784+/-0.113

χ^2/NDF : 24399715.0/100

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: -16.127 $\pm$ 2.368 χ^2 /NDF: 414.4/31

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

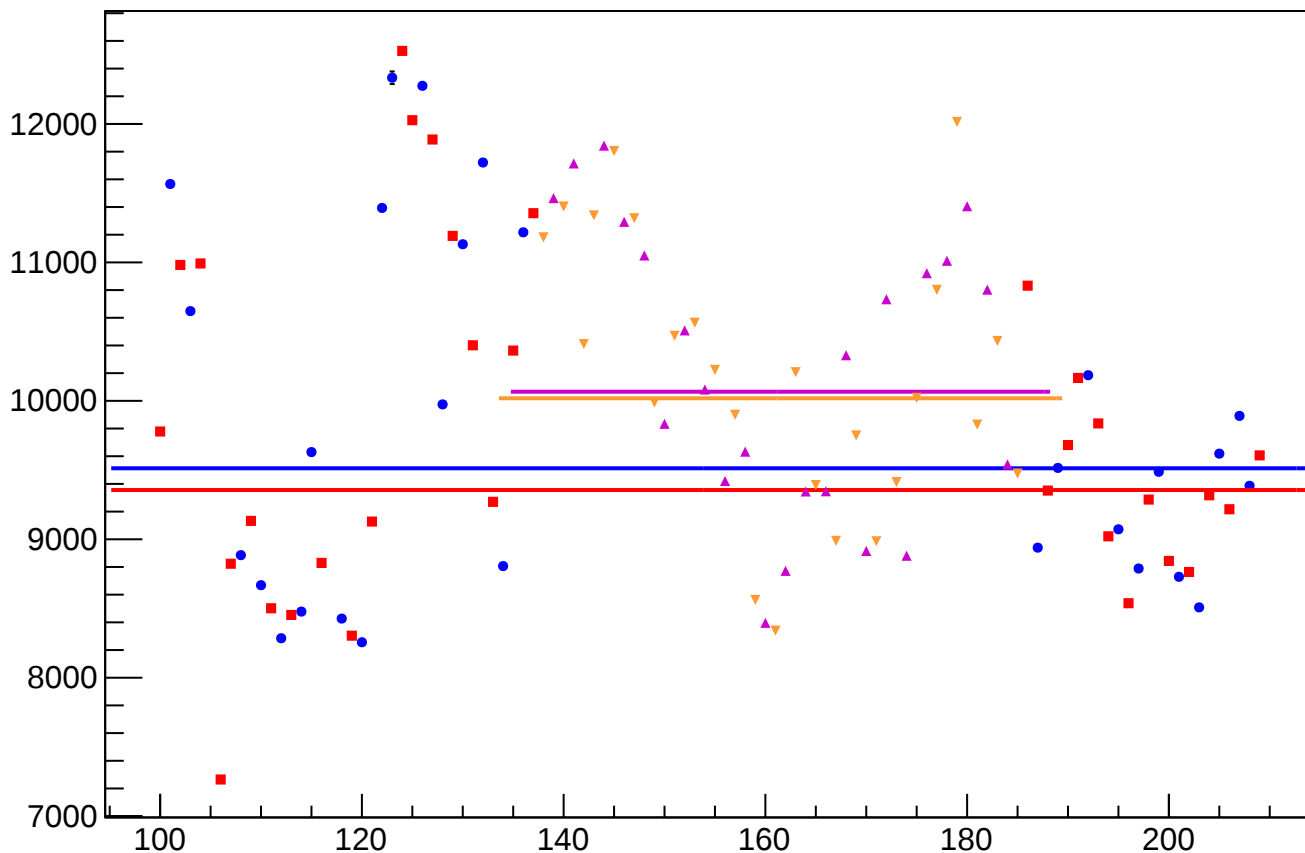
Right: -18.796 $\pm$ 1.727 χ^2 /NDF: 748.2/59

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

Out: -12.748 $\pm$ 1.671 χ^2 /NDF: 444.8/56

All: -15.016 $\pm$ 1.210 χ^2 /NDF: 806.9/107

diff_bpm0l07X_rms vs Slug, Sign Corrected



Right In: 9512.896 $\pm$ 1.786 χ^2/NDF : 333610.5/27

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

Right Out: 9355.715 $\pm$ 1.674 χ^2/NDF : 327284.1/31

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

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

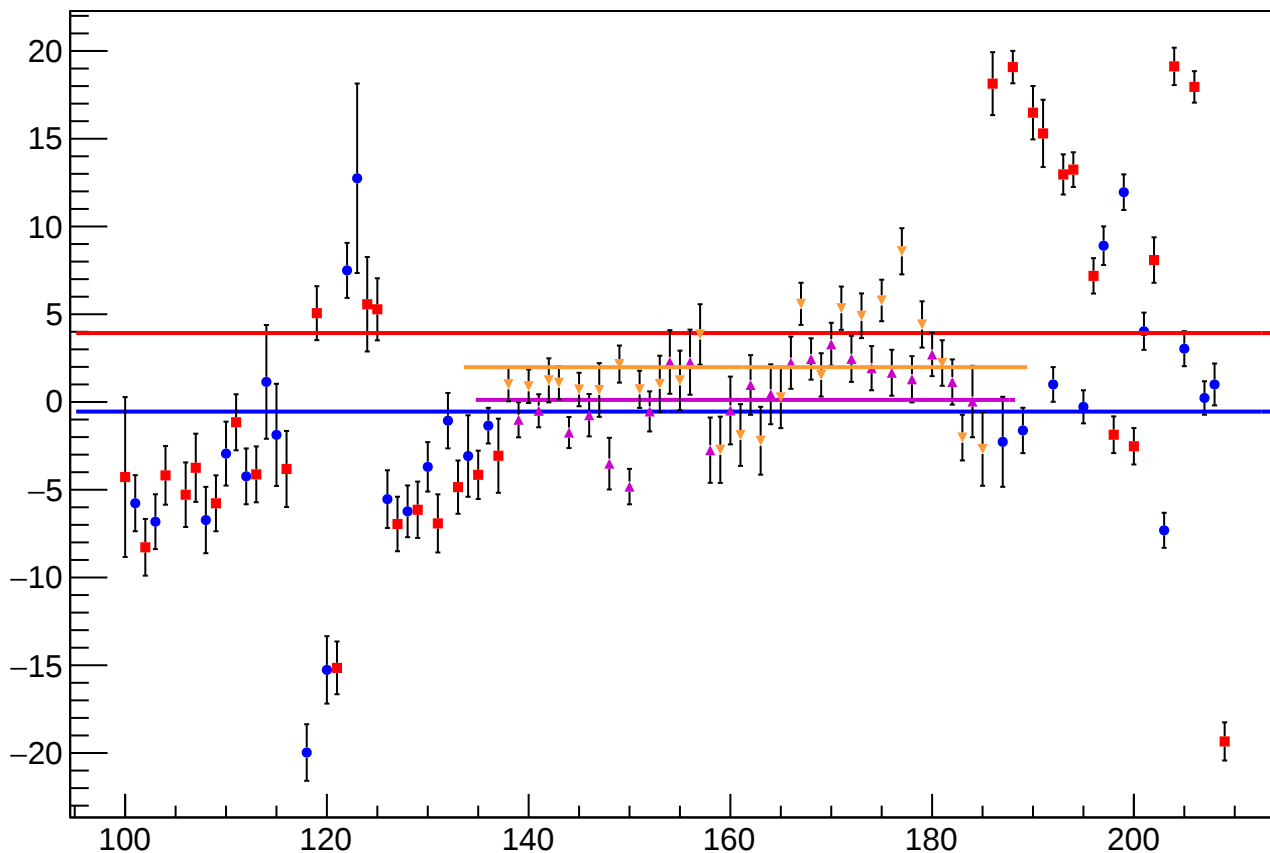
Right: 9429.255 $\pm$ 1.221 χ^2/NDF : 665017.1/59

In: 9798.601 $\pm$ 1.242 χ^2/NDF : 741023.8/50

Out: 9688.486 $\pm$ 1.182 χ^2/NDF : 750486.0/56

All: 9740.822 $\pm$ 0.856 χ^2/NDF : 1495637.2/10

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: 3.929±/0.244 χ^2/NDF : 2165.0/31

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

Left: 1.102±/0.185 χ^2/NDF : 194.2/47

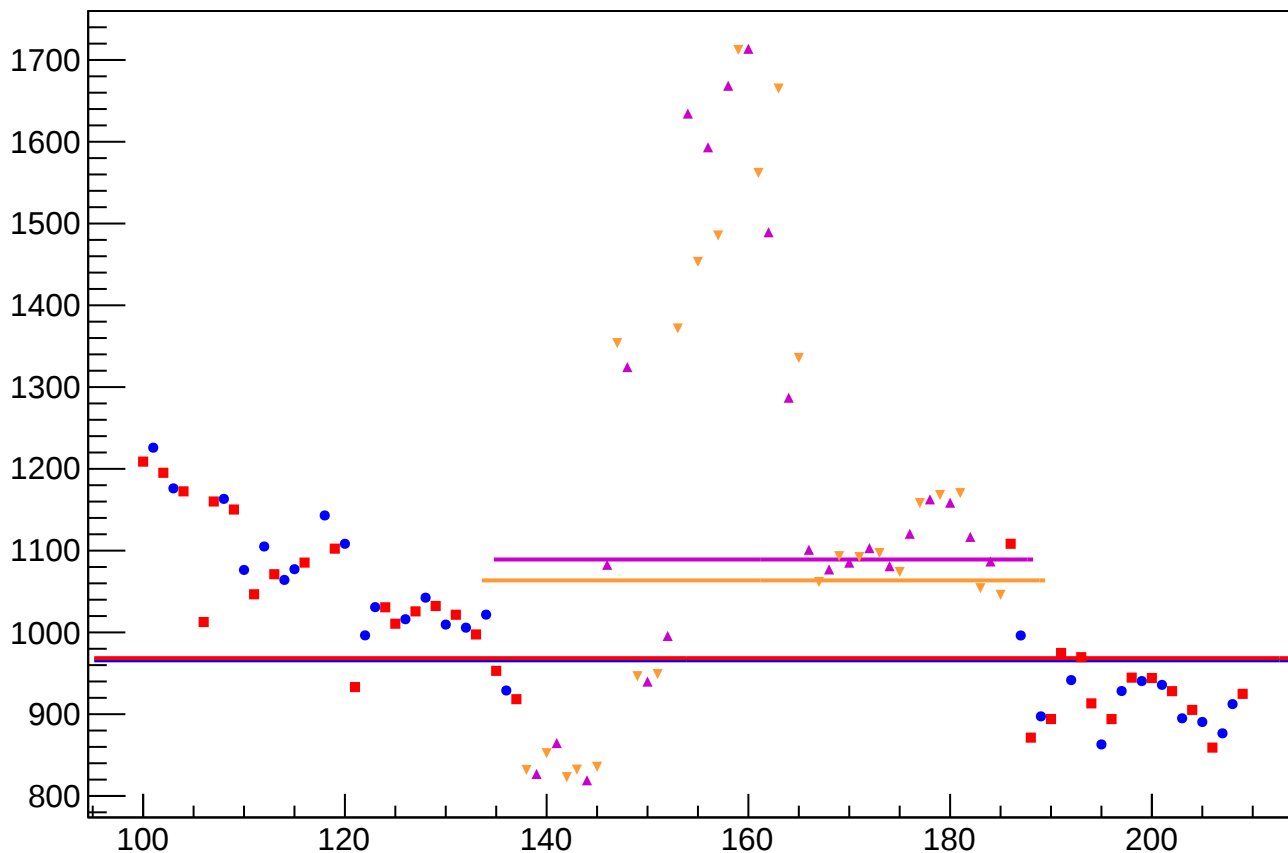
Right: 1.790±/0.176 χ^2/NDF : 2947.4/59

In: -0.231±/0.185 χ^2/NDF :692.5/50

Out: 2.999±/0.176 χ^2/NDF :2296.5/56

All: 1.462±/0.128 χ^2/NDF : 3148.8/107

diff_bpm0l07Y_rms vs Slug, Sign Corrected



Right In: 965.861 ± 0.180 χ^2/NDF : 268197.0/27

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

Right Out: 968.511 ± 0.173 χ^2/NDF : 269286.9/31

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

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

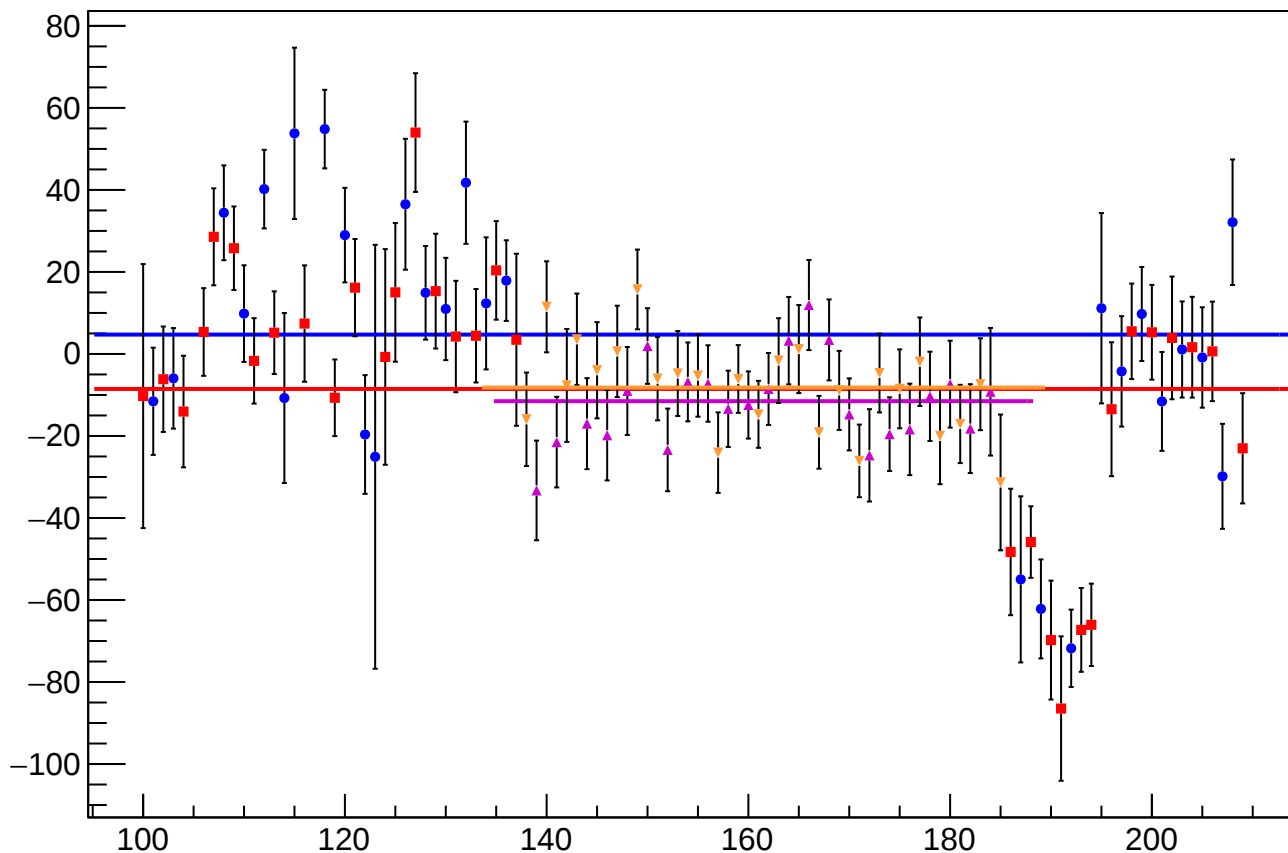
Right: 967.244 ± 0.125 χ^2/NDF : 537596.7/59

In: 1024.287 ± 0.131 χ^2/NDF : 1920232.3/50

Out: 1014.003 ± 0.125 χ^2/NDF : 2031933.9/56

All: 1018.897 ± 0.090 χ^2/NDF : 3955406.5/10

diff_bpm0l08X_mean vs Slug, Sign Corrected



Right In: 4.720 ± 2.427 $\chi^2/\text{NDF}: 195.5/27$

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

Right Out: -8.535 ± 2.211 $\chi^2/\text{NDF}: 197.2/31$

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

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

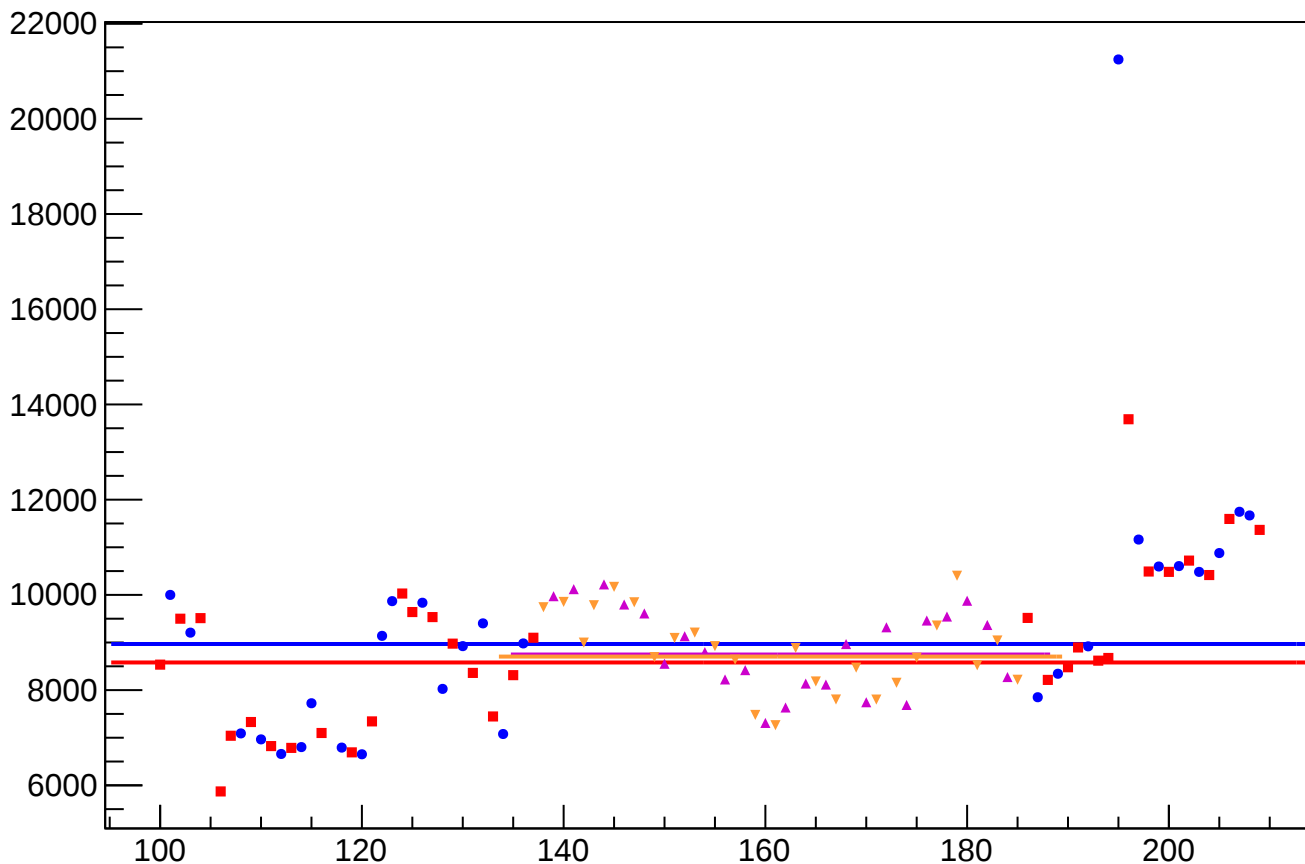
Right: -2.524 ± 1.635 $\chi^2/\text{NDF}: 409.0/59$

In: -4.481 ± 1.598 $\chi^2/\text{NDF}: 241.9/50$

Out: -8.352 ± 1.503 $\chi^2/\text{NDF}: 223.4/56$

All: -6.535 ± 1.095 $\chi^2/\text{NDF}: 468.4/107$

diff_bpm0l08X_rms vs Slug, Sign Corrected



Right In: 8968.482 $\pm$ 1.716 χ^2 /NDF: 1442452.8/27

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

Right Out: 8580.592 $\pm$ 1.563 χ^2 /NDF: 1114924.5/31

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

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

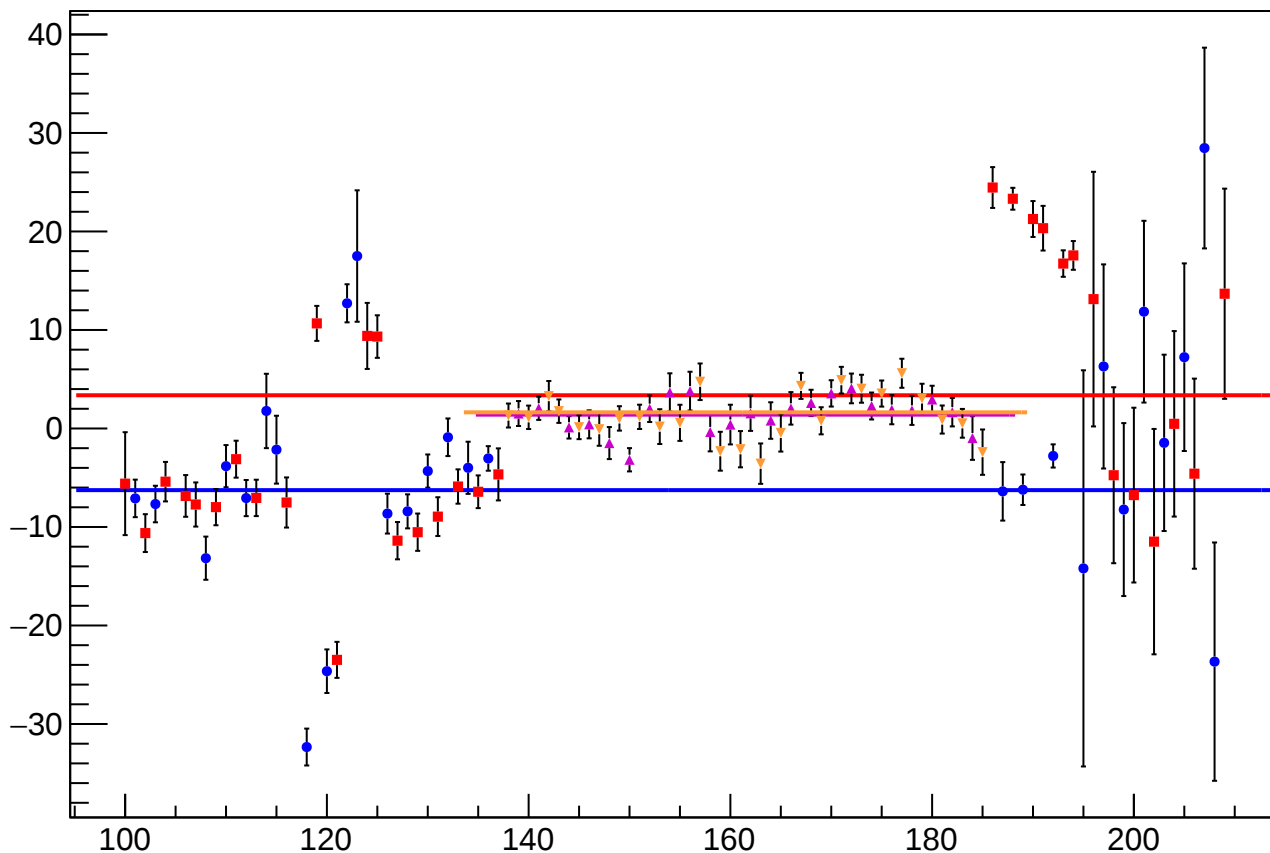
Right: 8756.483 $\pm$ 1.156 χ^2 /NDF: 2585288.8/59

In: 8843.192 $\pm$ 1.130 χ^2 /NDF: 1798964.3/50

Out: 8647.098 $\pm$ 1.063 χ^2 /NDF: 1450651.7/56

All: 8739.142 $\pm$ 0.774 χ^2 /NDF: 3265601.0/100

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: 3.372 ± 0.372 $\chi^2/\text{NDF}: 1472.0/31$

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

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

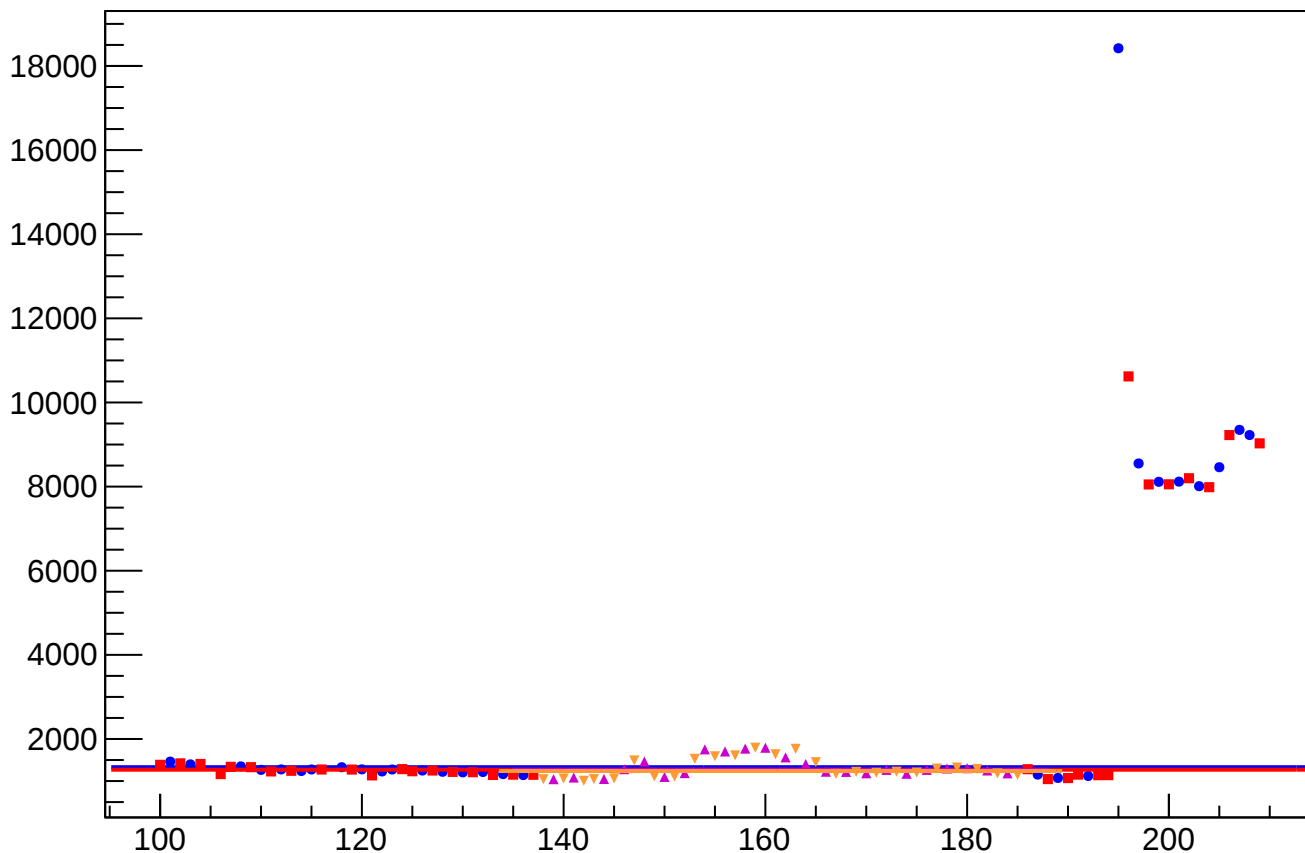
Right: -0.815 ± 0.280 $\chi^2/\text{NDF}: 2202.7/59$

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

Out: 2.303 ± 0.231 $\chi^2/\text{NDF}: 1536.6/56$

All: 0.670 ± 0.169 $\chi^2/\text{NDF}: 2332.8/107$

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: 1269.880+/-0.263 χ^2/NDF : 775529.9/31

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

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

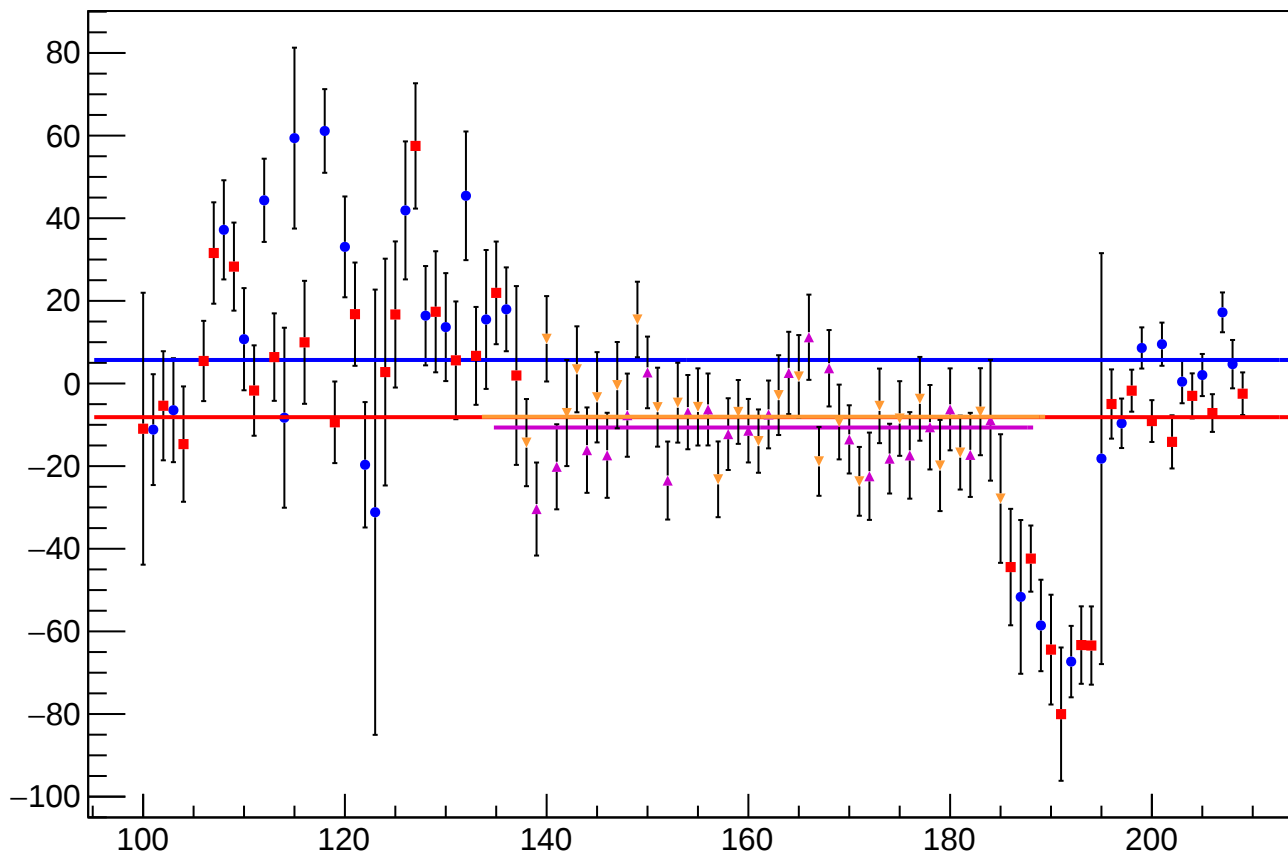
Right: 1295.698+/-0.198 χ^2/NDF : 17027406.2/59

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

Out: 1250.490+/-0.163 χ^2/NDF : 8729495.6/56

All: 1267.597+/-0.120 χ^2/NDF : 18877685.8/100

diff_bpm0l09X_mean vs Slug, Sign Corrected



Right In: 5.695 $\pm$ 1.641 χ^2/NDF : 212.6/27

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

Right Out: -8.148 $\pm$ 1.584 χ^2/NDF : 200.7/31

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

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

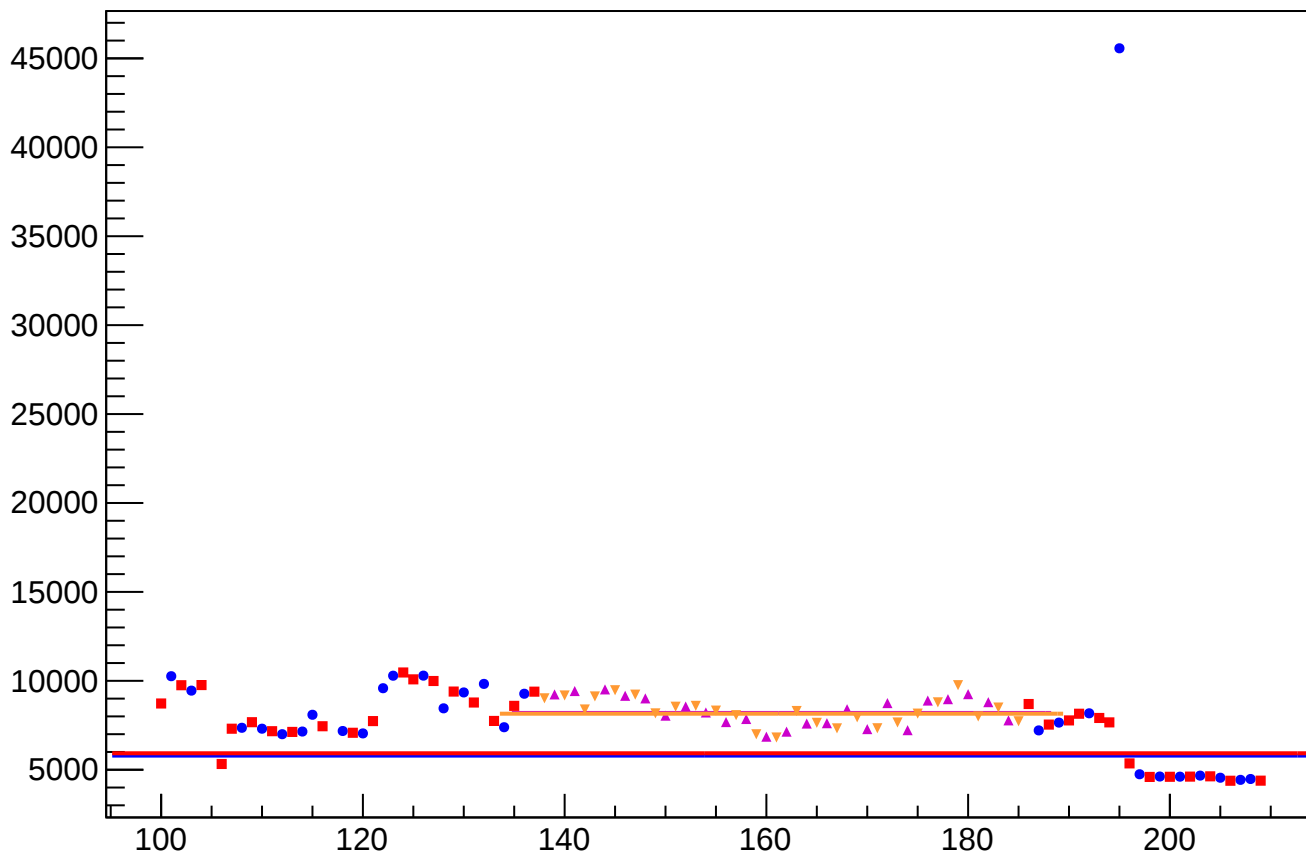
Right: -1.469 $\pm$ 1.140 χ^2/NDF : 450.2/59

In: -0.930 $\pm$ 1.265 χ^2/NDF :274.3/50

Out: -8.105 $\pm$ 1.221 χ^2/NDF :227.0/56

All: -4.644 $\pm$ 0.879 χ^2/NDF : 517.9/107

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: 5863.890+/-0.806

χ^2/NDF : 6272079.2/59

Right Out: 5927.106+/-1.120

χ^2/NDF : 2531188.3/31

In: 6767.731+/-0.895

χ^2/NDF : 5803454.7/50

Out: 6829.141+/-0.864

χ^2/NDF : 4451882.9/56

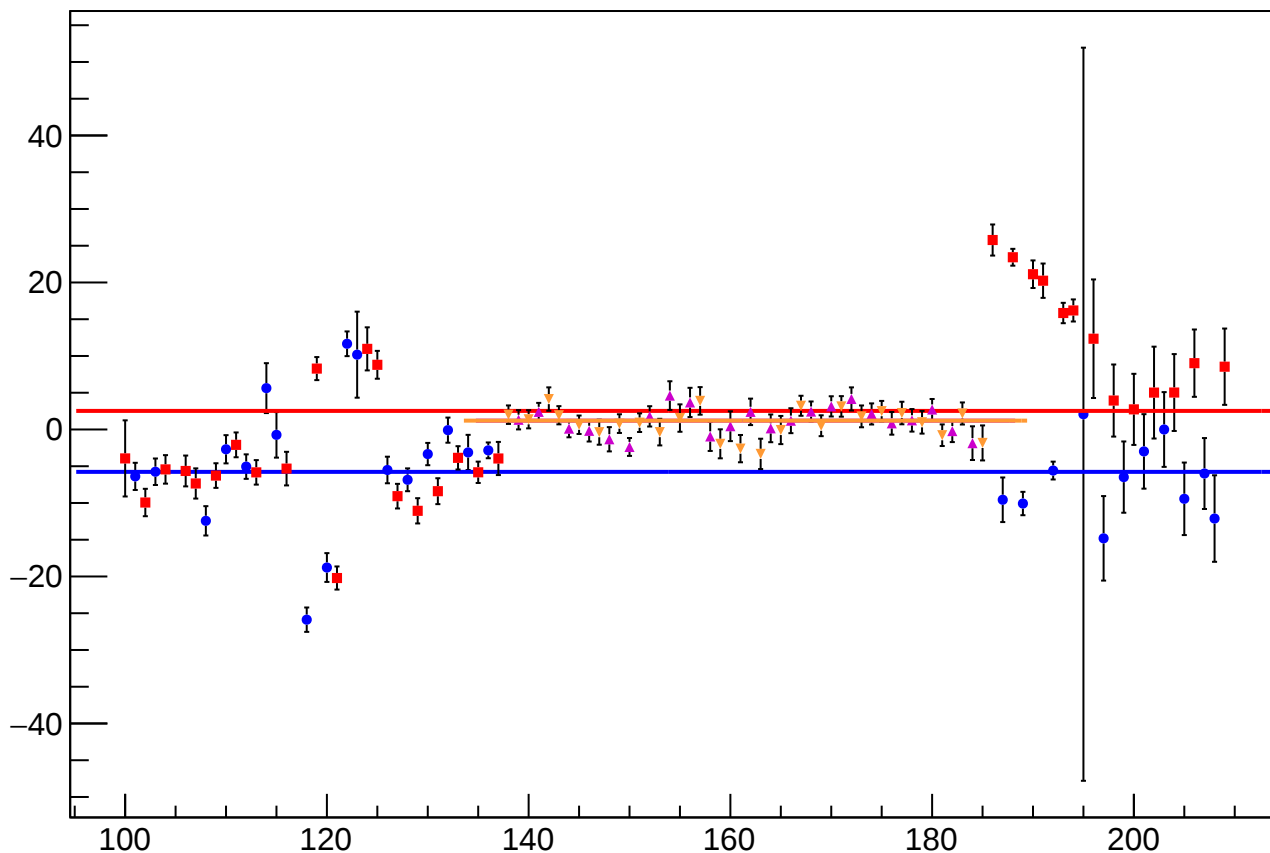
Left In: 8193.636+/-1.405

χ^2/NDF : 338377.6/22

All: 6799.518+/-0.621

χ^2/NDF : 10257776.1/1

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: 2.527 ± 0.348 χ^2/NDF : 1411.9/31

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

Left: 1.201 ± 0.219 χ^2/NDF : 61.1/47

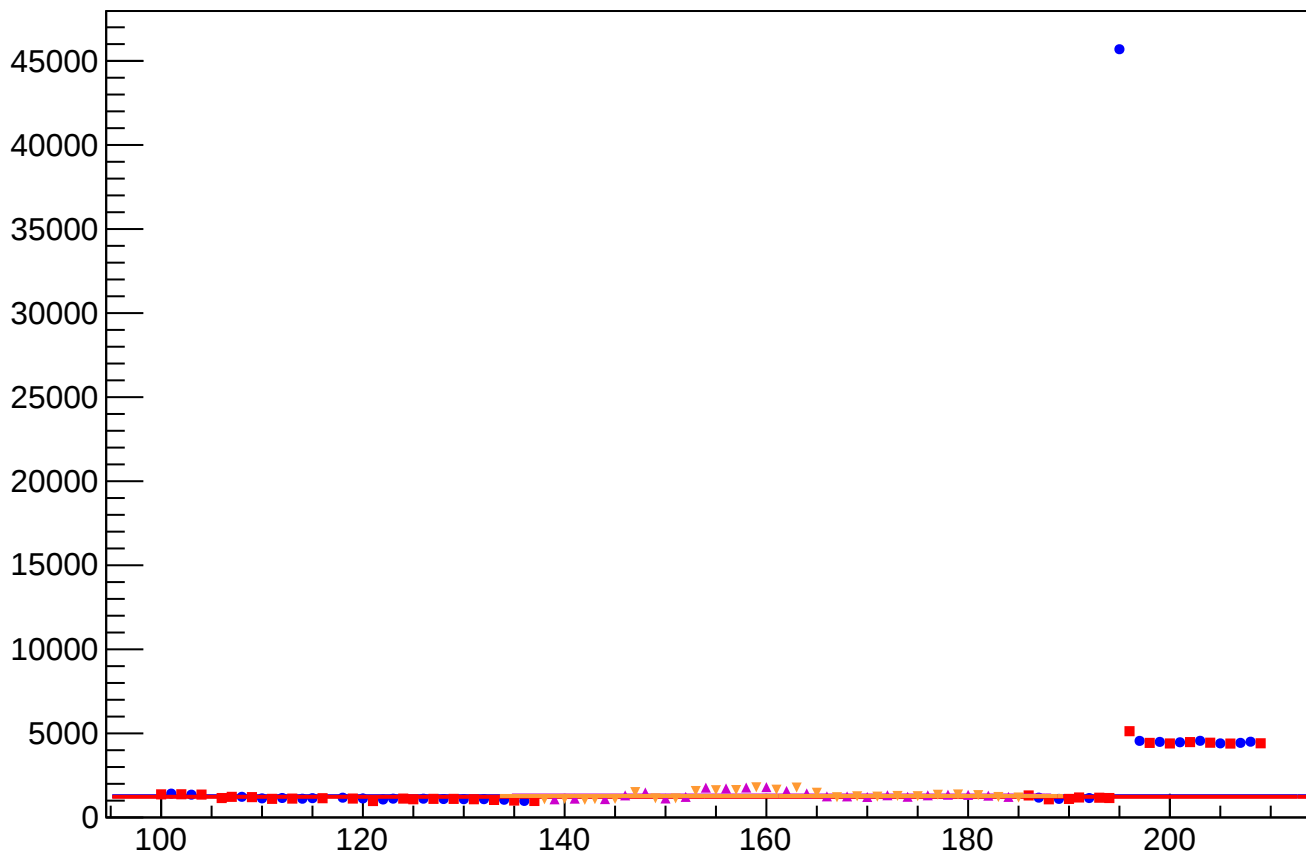
Right: -1.176 ± 0.259 χ^2/NDF : 2037.5/59

In: -1.609 ± 0.246 χ^2/NDF : 595.9/50

Out: 1.773 ± 0.228 χ^2/NDF : 1450.1/56

All: 0.208 ± 0.167 χ^2/NDF : 2147.7/107

diff_bpm0l09Y_rms vs Slug, Sign Corrected



Right In: 1266.041+/-0.274 χ^2/NDF : 7416844.2/27

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

Right Out: 1229.046+/-0.246 χ^2/NDF : 5500769.8/31

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

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

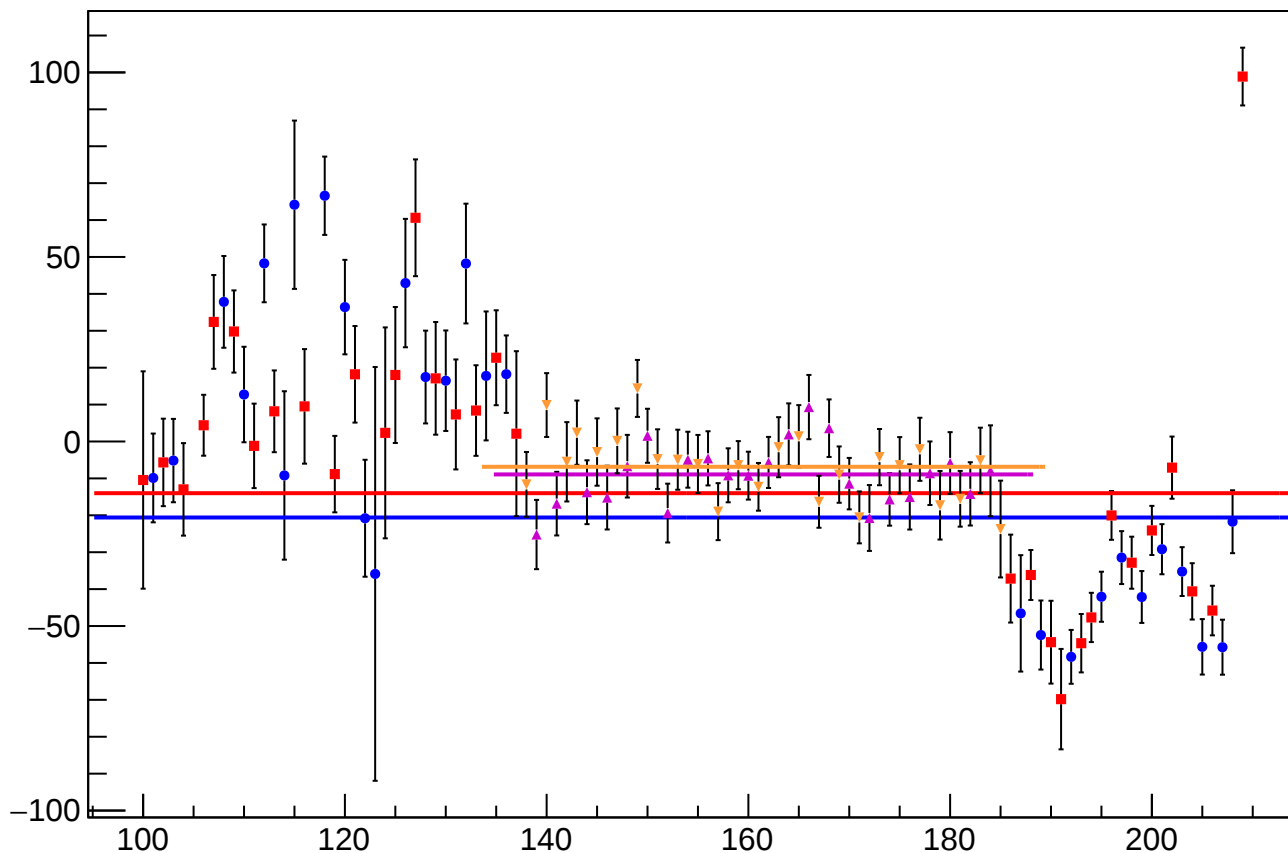
Right: 1245.561+/-0.183 χ^2/NDF : 12927718.5/59

In: 1289.623+/-0.174 χ^2/NDF : 8189718.5/50

Out: 1256.871+/-0.161 χ^2/NDF : 6401385.9/56

All: 1272.032+/-0.118 χ^2/NDF : 14610173.6/100

diff_bpm0l10X_mean vs Slug, Sign Corrected



Right In: -20.594 $\pm$ 1.889 χ^2/NDF : 355.3/27

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

Right Out: -14.005 $\pm$ 1.751 χ^2/NDF : 441.6/31

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

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

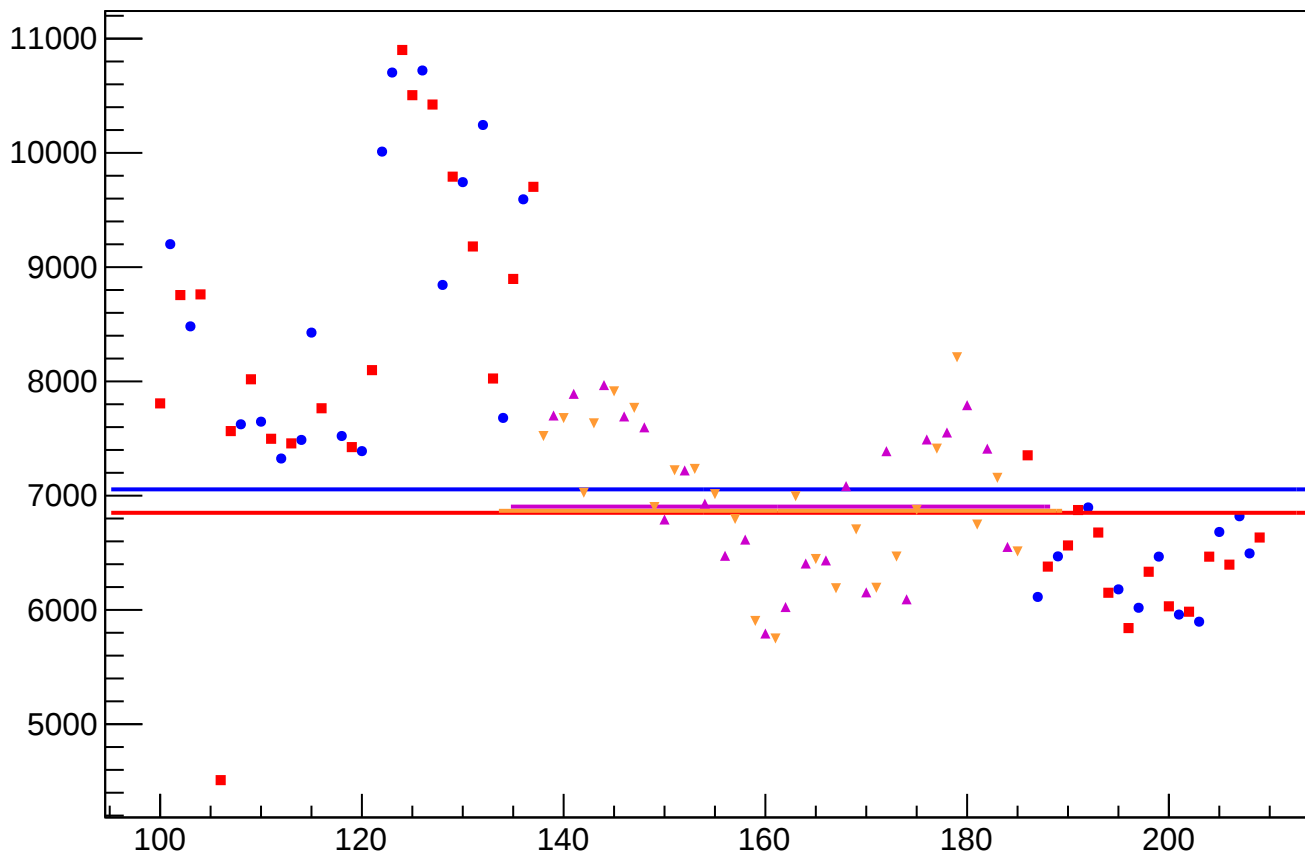
Right: -17.050 $\pm$ 1.284 χ^2/NDF : 803.5/59

In: -14.058 $\pm$ 1.253 χ^2/NDF : 398.5/50

Out: -10.143 $\pm$ 1.187 χ^2/NDF : 479.3/56

All: -11.995 $\pm$ 0.862 χ^2/NDF : 883.0/107

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: 6849.975+/-1.238 χ^2/NDF : 941045.6/31

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

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

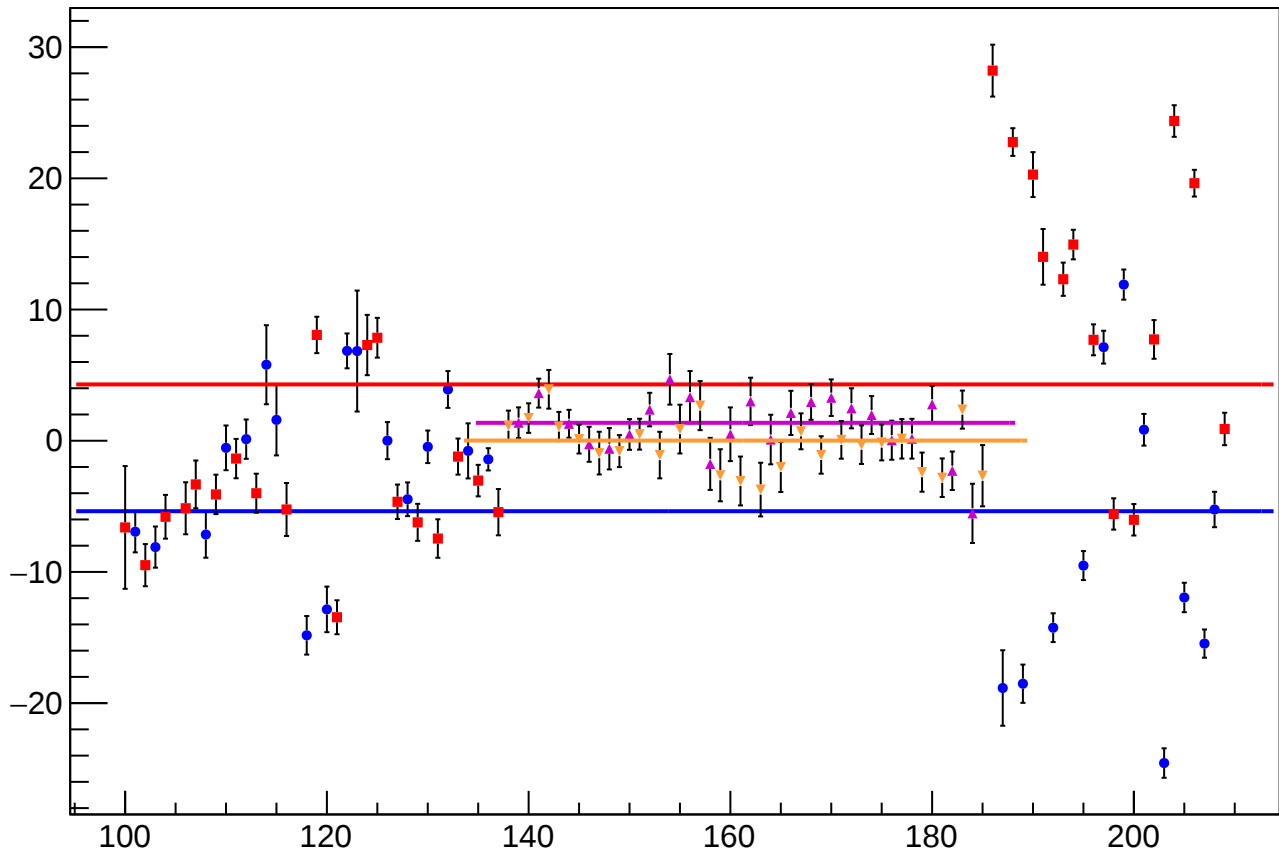
Right: 6944.734+/-0.908 χ^2/NDF : 1788599.0/59

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

Out: 6859.370+/-0.839 χ^2/NDF : 1248047.3/56

All: 6911.960+/-0.609 χ^2/NDF : 2424277.2/10

diff_bpm0l10Y_mean vs Slug, Sign Corrected



Right In: -5.372 ± 0.260 χ^2/NDF : 1247.8/27

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

Right Out: 4.293 ± 0.252 χ^2/NDF : 2066.1/31

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

Left: 0.654 ± 0.210 χ^2/NDF : 83.8/47

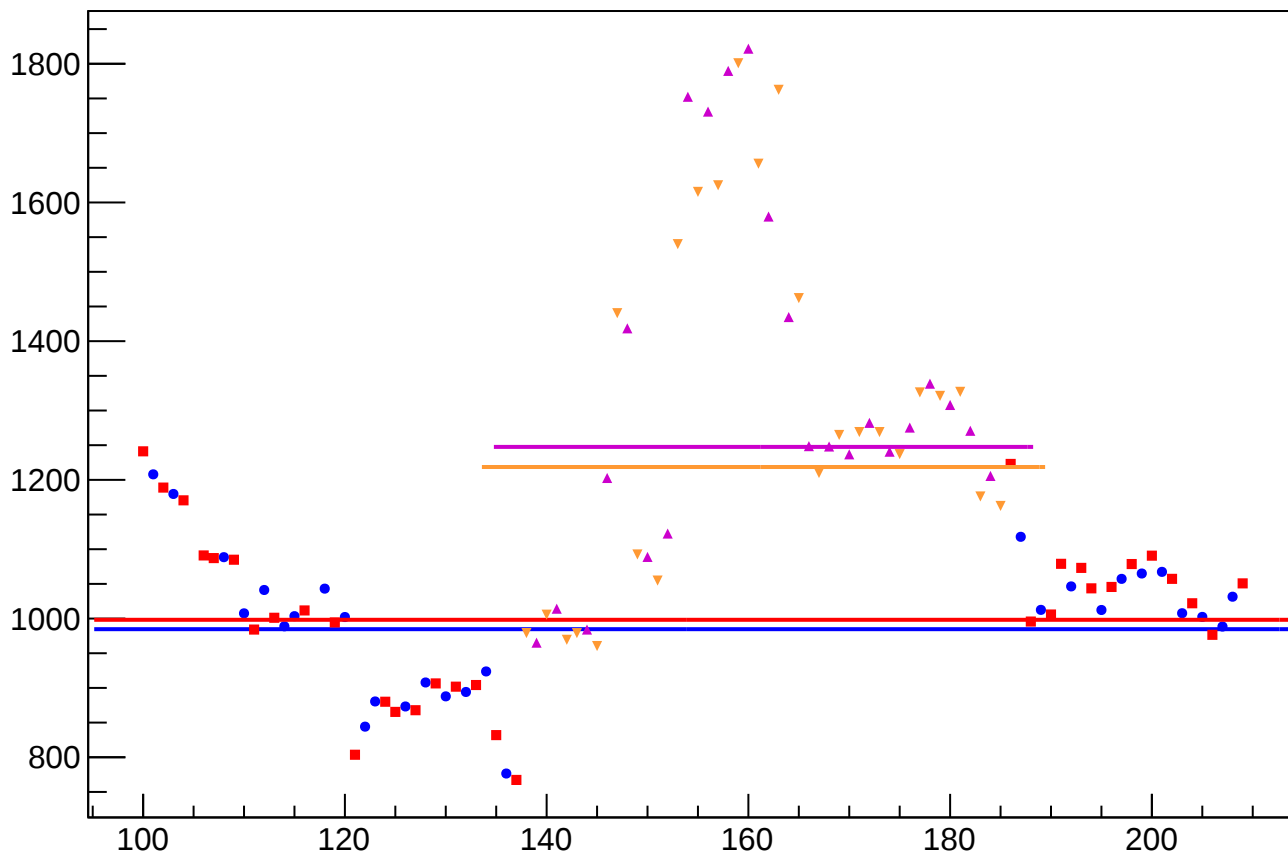
Right: -0.380 ± 0.181 χ^2/NDF : 4026.6/59

In: -2.539 ± 0.198 χ^2/NDF : 1568.2/50

Out: 2.454 ± 0.190 χ^2/NDF : 2225.3/56

All: 0.060 ± 0.137 χ^2/NDF : 4124.3/107

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: 998.226 $\pm$ 0.178 χ^2 /NDF: 327312.6/31

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

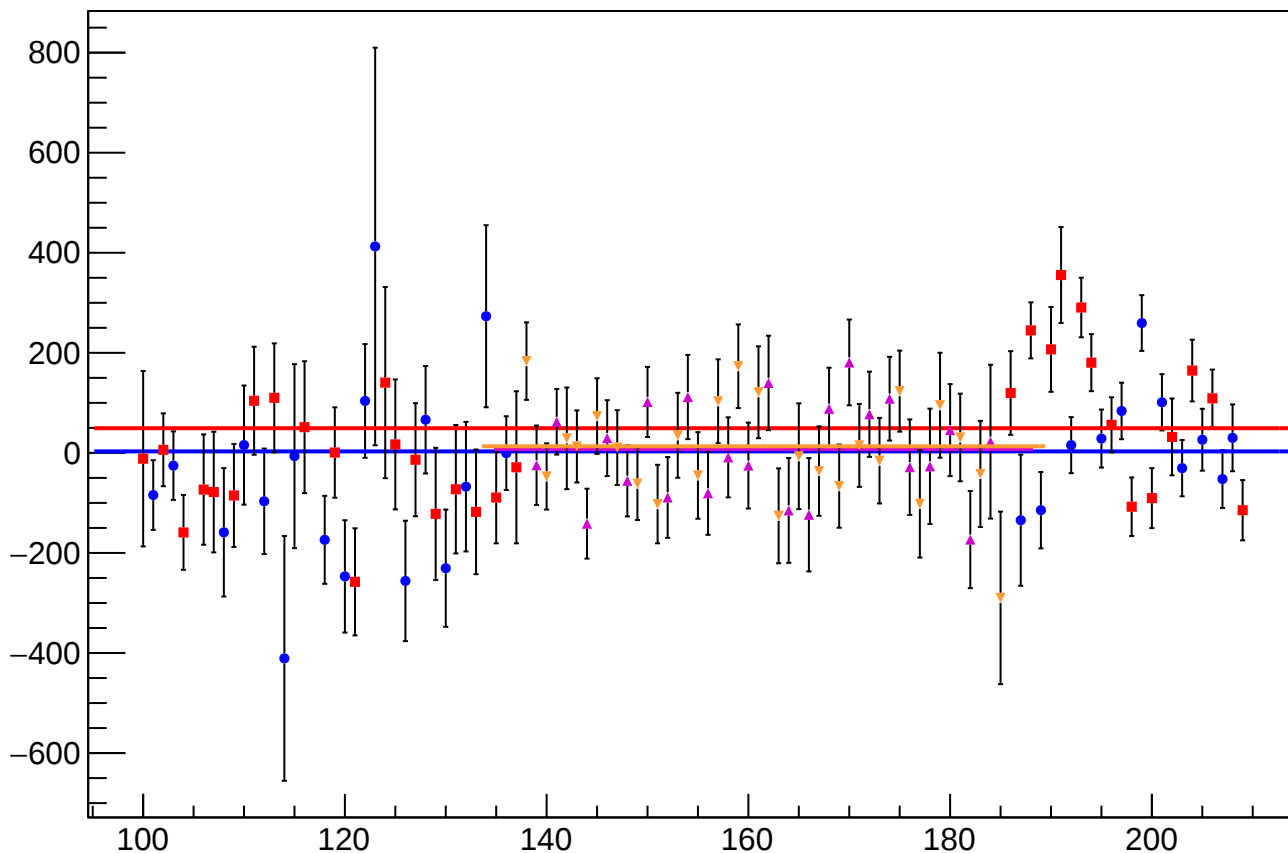
Right: 991.682 $\pm$ 0.128 χ^2 /NDF: 642789.5/59

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

Out: 1092.937 $\pm$ 0.134 χ^2 /NDF:2251599.9/56

All: 1094.016 $\pm$ 0.097 χ^2 /NDF: 4495934.3/10

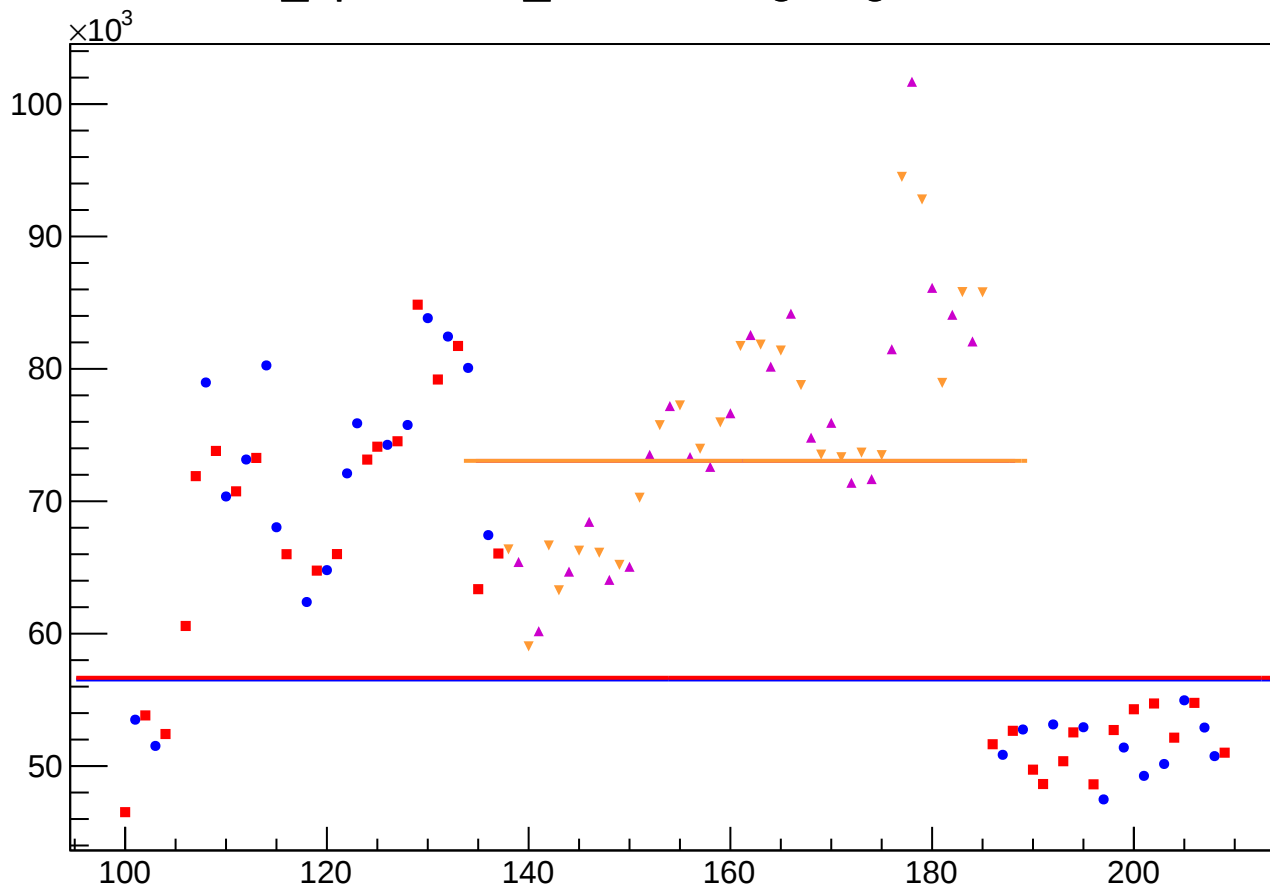
diff_bpm0r03X_mean vs Slug, Sign Corrected



Right In: 3.012 ± 15.107 $\chi^2/\text{NDF}: 61.0/27$
Left Out: 13.207 ± 17.146 $\chi^2/\text{NDF}: 26.8/24$
Right Out: 49.348 ± 14.427 $\chi^2/\text{NDF}: 101.9/31$
Left In: 7.618 ± 17.672 $\chi^2/\text{NDF}: 28.1/22$

Left: 10.497 ± 12.306 $\chi^2/\text{NDF}: 55.0/47$
Right: 27.247 ± 10.433 $\chi^2/\text{NDF}: 167.8/59$
In: 4.957 ± 11.483 $\chi^2/\text{NDF}: 89.1/50$
Out: 34.368 ± 11.039 $\chi^2/\text{NDF}: 131.3/56$
All: 20.242 ± 7.958 $\chi^2/\text{NDF}: 223.8/107$

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: 56668.313 $\pm$ 10.201 χ^2/NDF : 745456.1/31

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

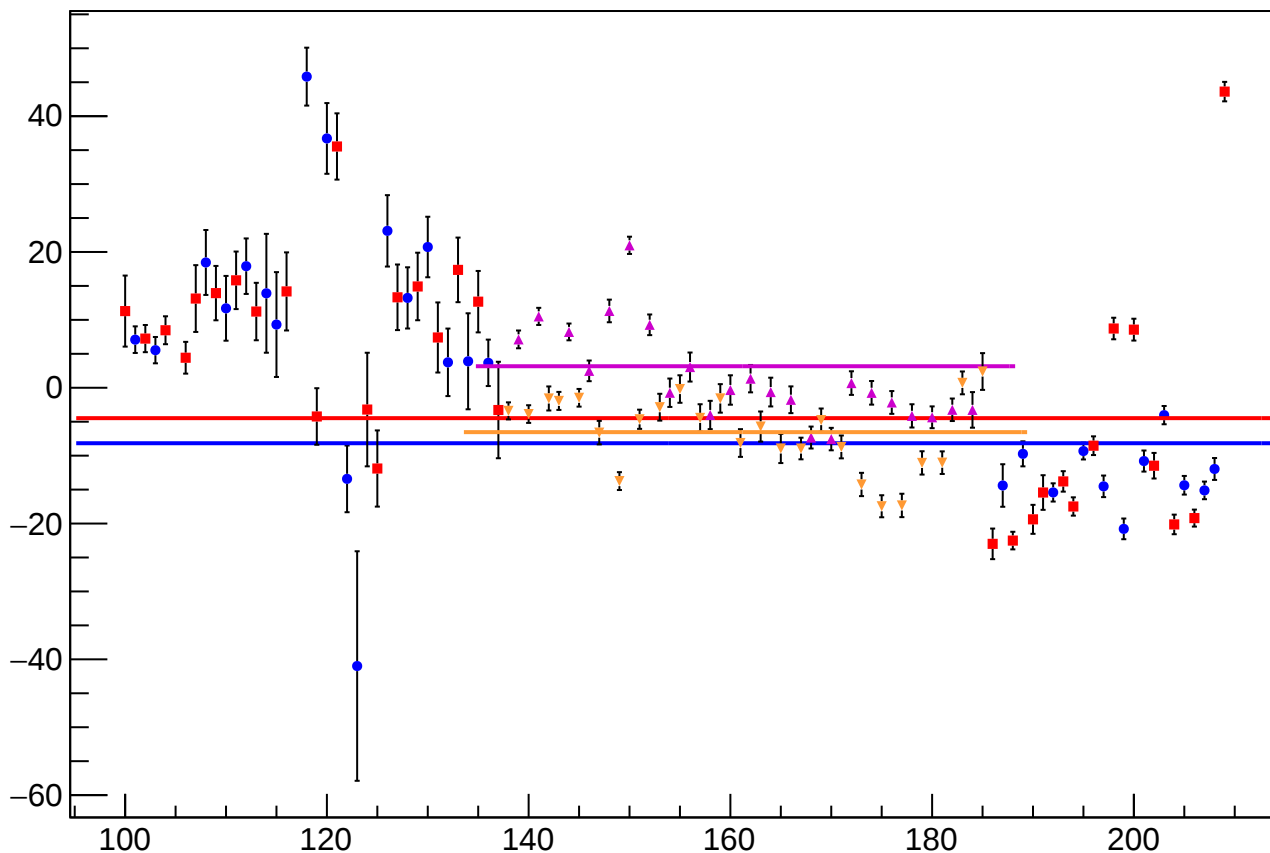
Right: 56607.002 $\pm$ 7.378 χ^2/NDF : 1535372.4/59

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

Out: 63460.397 $\pm$ 7.806 χ^2/NDF : 2287985.0/56

All: 63483.812 $\pm$ 5.627 χ^2/NDF : 4549450.5/105

diff_bpm0r03Y_mean vs Slug, Sign Corrected



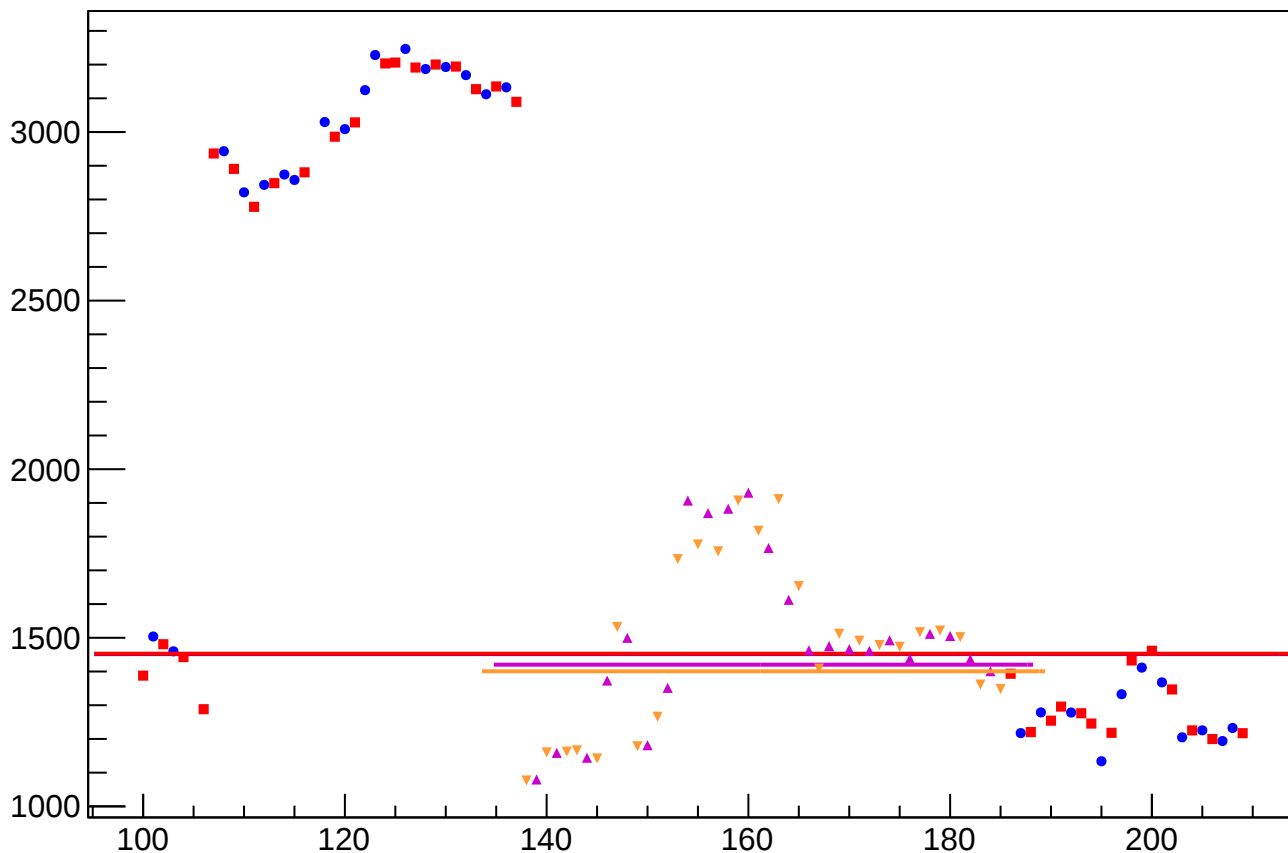
Right In: -8.170 ± 0.407 $\chi^2/\text{NDF}: 756.8/27$
 Left Out: -6.537 ± 0.332 $\chi^2/\text{NDF}: 252.7/24$
 Right Out: -4.476 ± 0.387 $\chi^2/\text{NDF}: 2316.6/31$
 Left In: 3.171 ± 0.346 $\chi^2/\text{NDF}: 487.3/22$

Left: -1.892 ± 0.240 $\chi^2/\text{NDF}: 1149.5/47$
 Right: -6.227 ± 0.281 $\chi^2/\text{NDF}: 3116.7/59$

In: -1.589 ± 0.264 $\chi^2/\text{NDF}: 1693.8/50$
 Out: -5.663 ± 0.252 $\chi^2/\text{NDF}: 2585.7/56$

All: -3.721 ± 0.182 $\chi^2/\text{NDF}: 4404.3/107$

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: 1452.714+/-0.274

χ^2/NDF : 3529253.9/31

Left In: 1420.285+/-0.245

χ^2/NDF : 905186.2/22

Left: 1410.037+/-0.169

χ^2/NDF : 1946462.8/47

Right: 1452.213+/-0.198

χ^2/NDF : 7063414.4/59

In: 1433.450+/-0.187

χ^2/NDF : 4446221.5/50

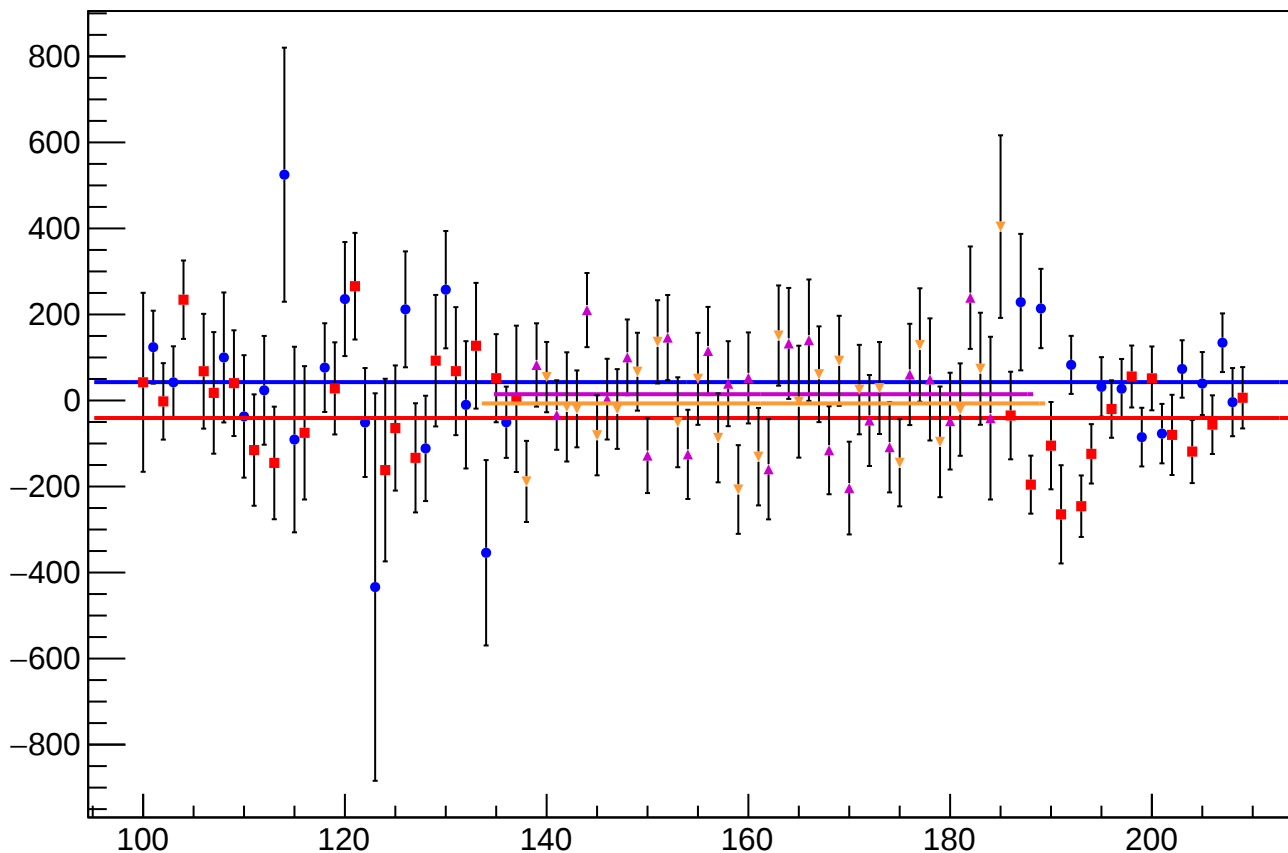
Out: 1422.714+/-0.178

χ^2/NDF : 4588060.0/56

All: 1427.830+/-0.129

χ^2/NDF : 9036013.7/10

diff_bpm0r05X_mean vs Slug, Sign Corrected



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

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

Right Out: -40.740 ± 17.256 χ^2/NDF : 47.1/31

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

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

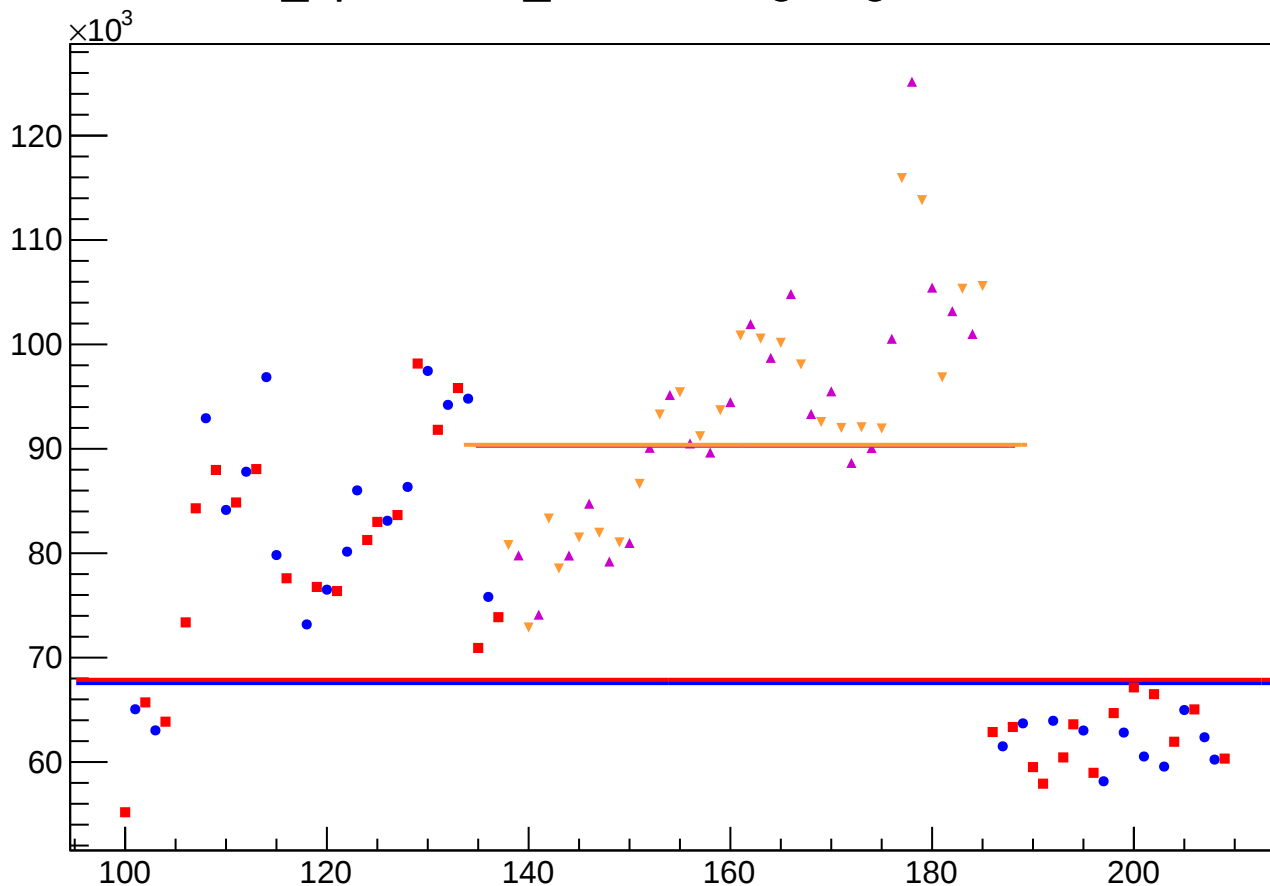
Right: -0.807 ± 12.461 χ^2/NDF : 91.2/59

In: 31.336 ± 13.898 χ^2/NDF : 63.7/50

Out: -27.220 ± 13.386 χ^2/NDF : 73.3/56

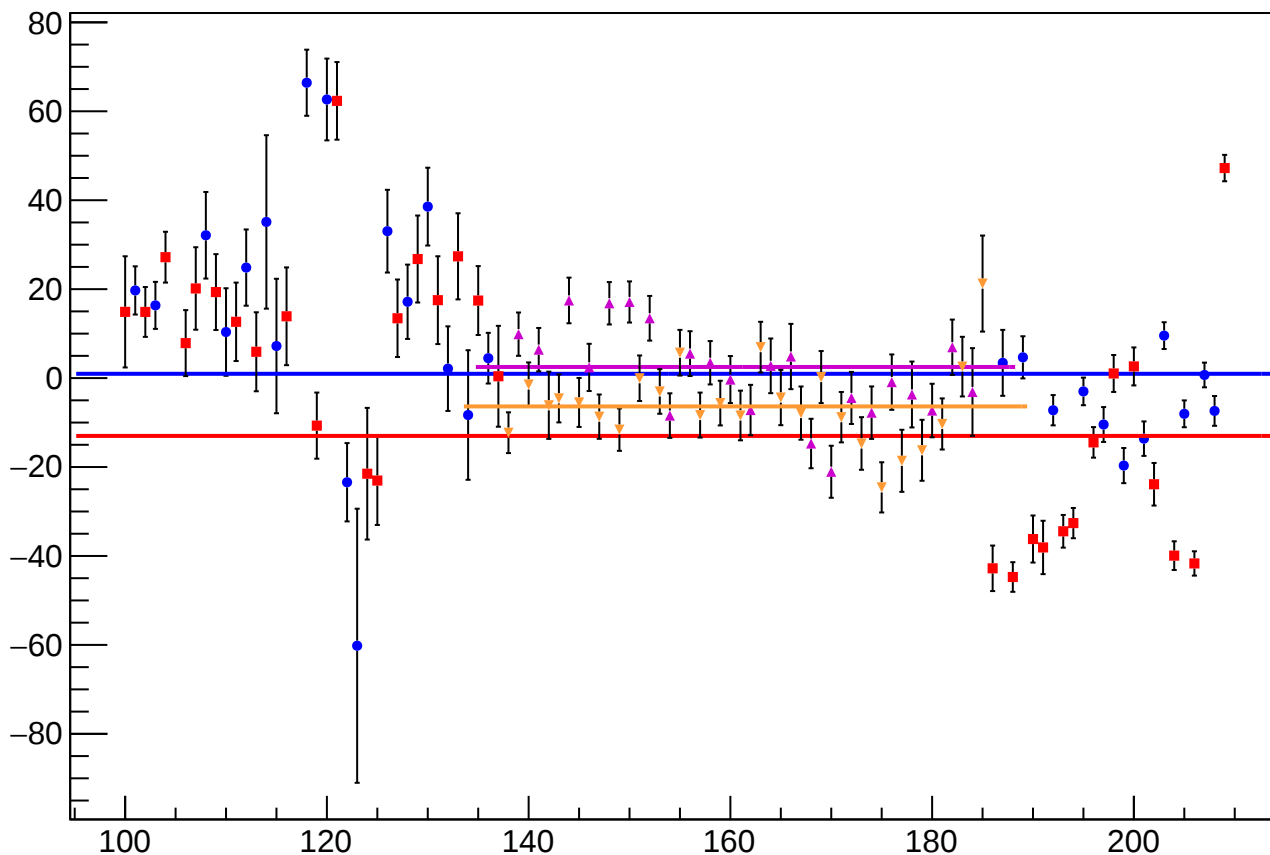
All: 0.960 ± 9.641 χ^2/NDF : 146.2/107

diff_bpm0r05X_rms vs Slug, Sign Corrected



Right In: 67556.635 $\pm$ 12.737	χ^2/NDF : 641246.3/27	Left: 90340.563 $\pm$ 10.761	χ^2/NDF : 923003.7/47
Left Out: 90384.853 $\pm$ 15.000	χ^2/NDF : 461648.2/24	Right: 67724.318 $\pm$ 8.811	χ^2/NDF : 1270165.0/59
Right Out: 67878.200 $\pm$ 12.202	χ^2/NDF : 628586.4/31	In: 76758.817 $\pm$ 9.827	χ^2/NDF : 2392212.0/50
Left In: 90293.591 $\pm$ 15.448	χ^2/NDF : 461337.5/22	Out: 76840.733 $\pm$ 9.466	χ^2/NDF : 2445056.5/56
		All: 76801.310 $\pm$ 6.818	χ^2/NDF : 4837304.5/1

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: -13.003 ± 0.914 χ^2/NDF : 1129.0/31

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

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

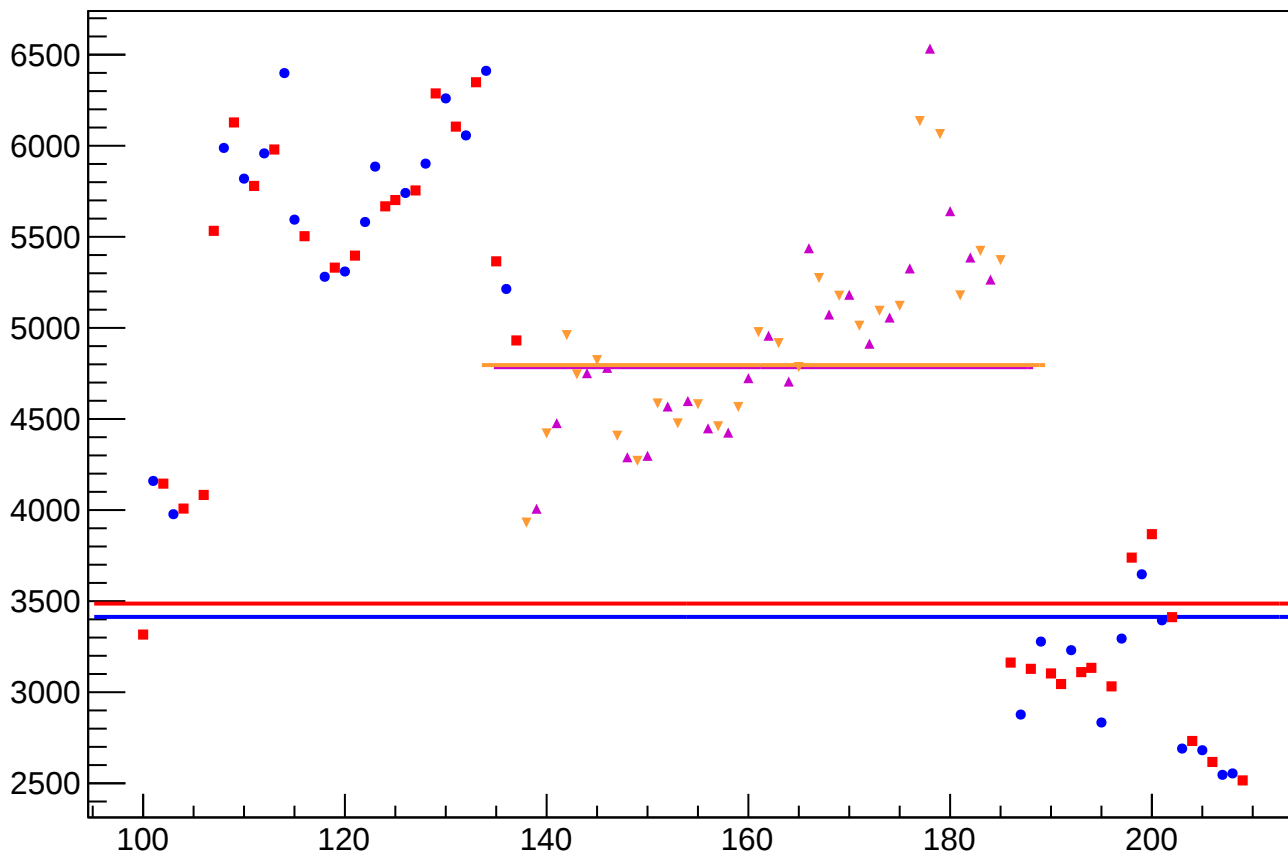
Right: -6.227 ± 0.656 χ^2/NDF : 1535.2/59

In: 1.579 ± 0.730 χ^2/NDF : 372.3/50

Out: -10.363 ± 0.709 χ^2/NDF : 1195.4/56

All: -4.566 ± 0.509 χ^2/NDF : 1705.4/107

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: 3486.592+/-0.646 χ^2/NDF : 2511520.0/31

Left In: 4784.434+/-0.817 χ^2/NDF : 357507.2/22

Left: 4790.301+/-0.570 χ^2/NDF : 718857.1/47

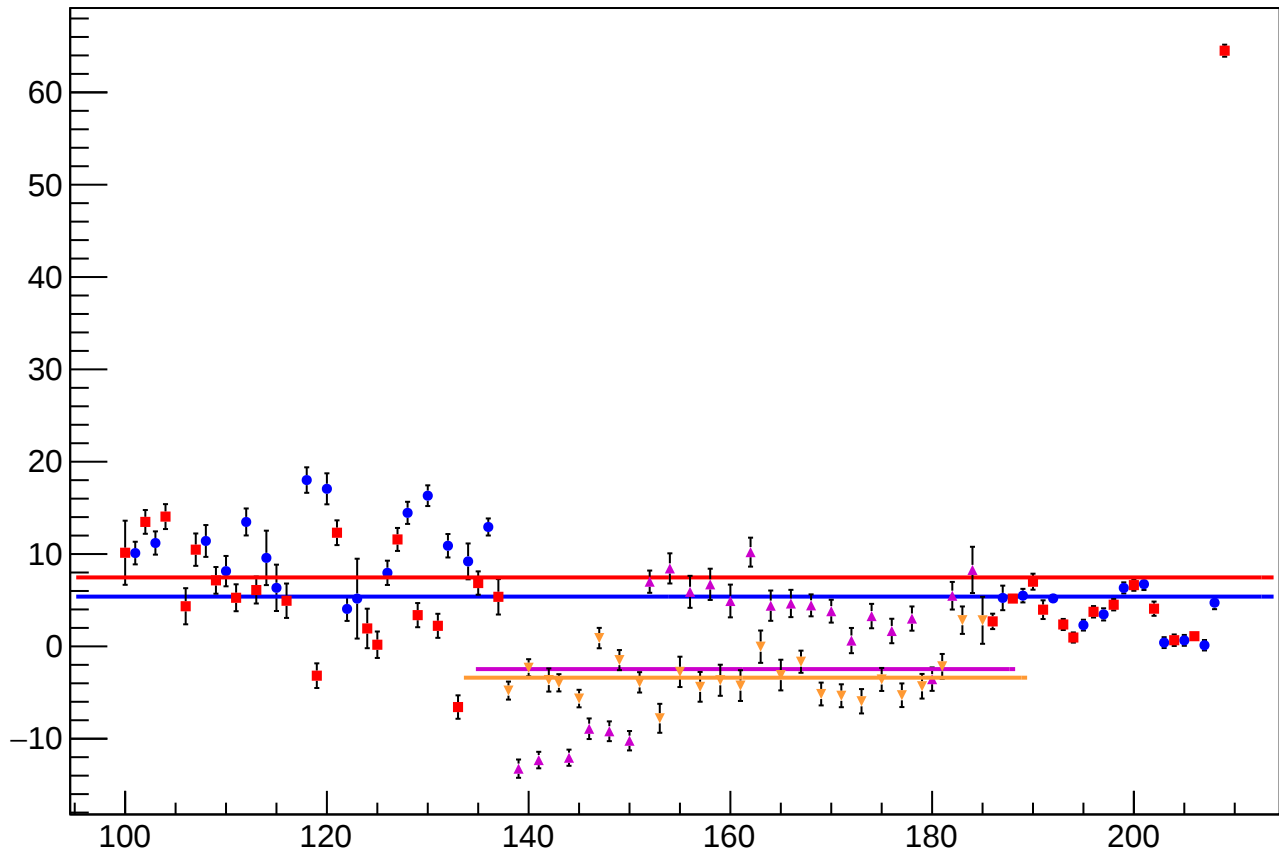
Right: 3451.095+/-0.464 χ^2/NDF : 5056783.5/59

In: 3960.247+/-0.516 χ^2/NDF : 4587952.6/50

Out: 4007.673+/-0.501 χ^2/NDF : 4506745.3/56

All: 3984.652+/-0.360 χ^2/NDF : 9099041.7/10

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: 7.468 ± 0.158 $\chi^2/\text{NDF}: 8606.2/31$

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

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

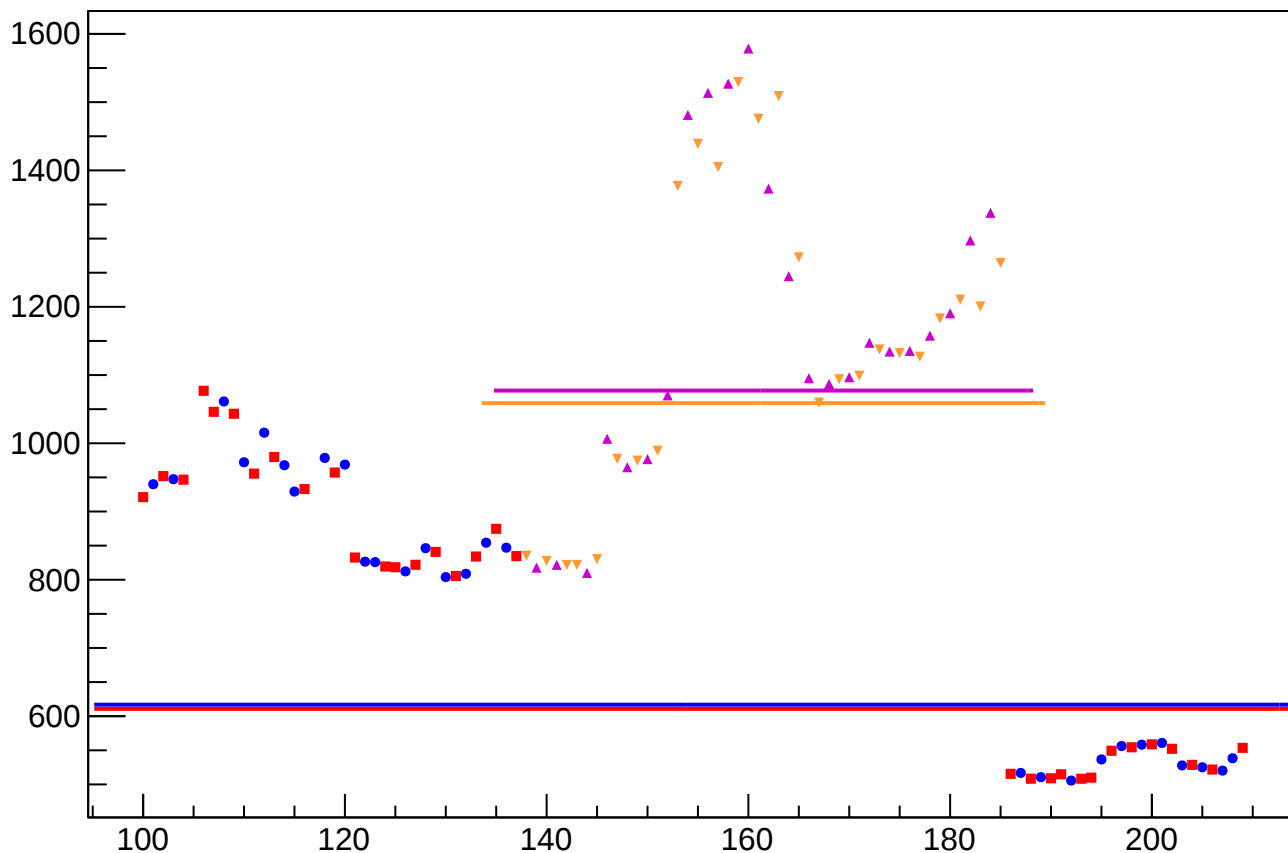
Right: 6.486 ± 0.115 $\chi^2/\text{NDF}: 9417.1/59$

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

Out: 4.399 ± 0.134 $\chi^2/\text{NDF}: 10013.1/56$

All: 3.806 ± 0.097 $\chi^2/\text{NDF}: 12341.9/107$

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: 610.782 $\pm$ 0.112 χ^2 /NDF: 2023401.7/31

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

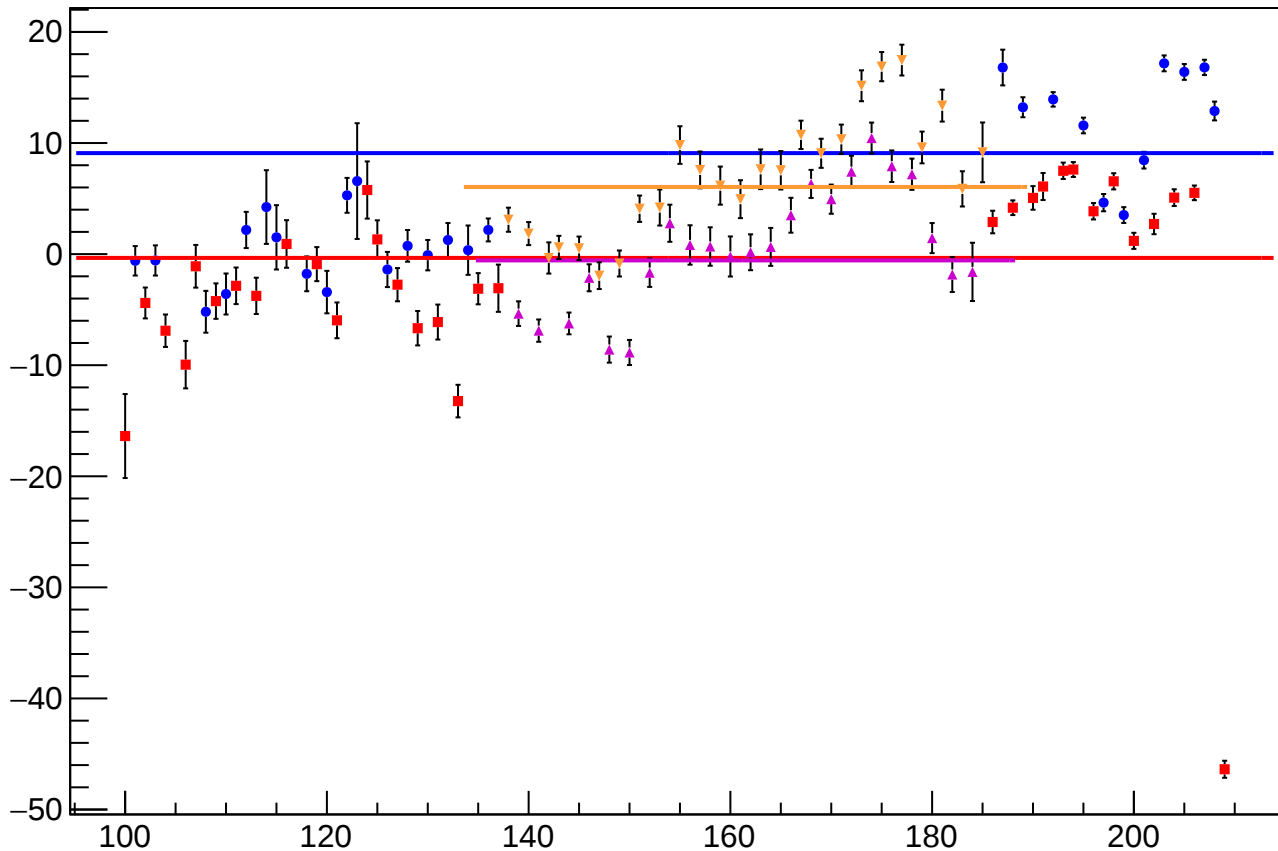
Right: 613.657 $\pm$ 0.081 χ^2 /NDF: 3797713.9/59

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

Out: 737.431 $\pm$ 0.095 χ^2 /NDF:7955394.4/56

All: 742.687 $\pm$ 0.069 χ^2 /NDF: 15346729.2/10

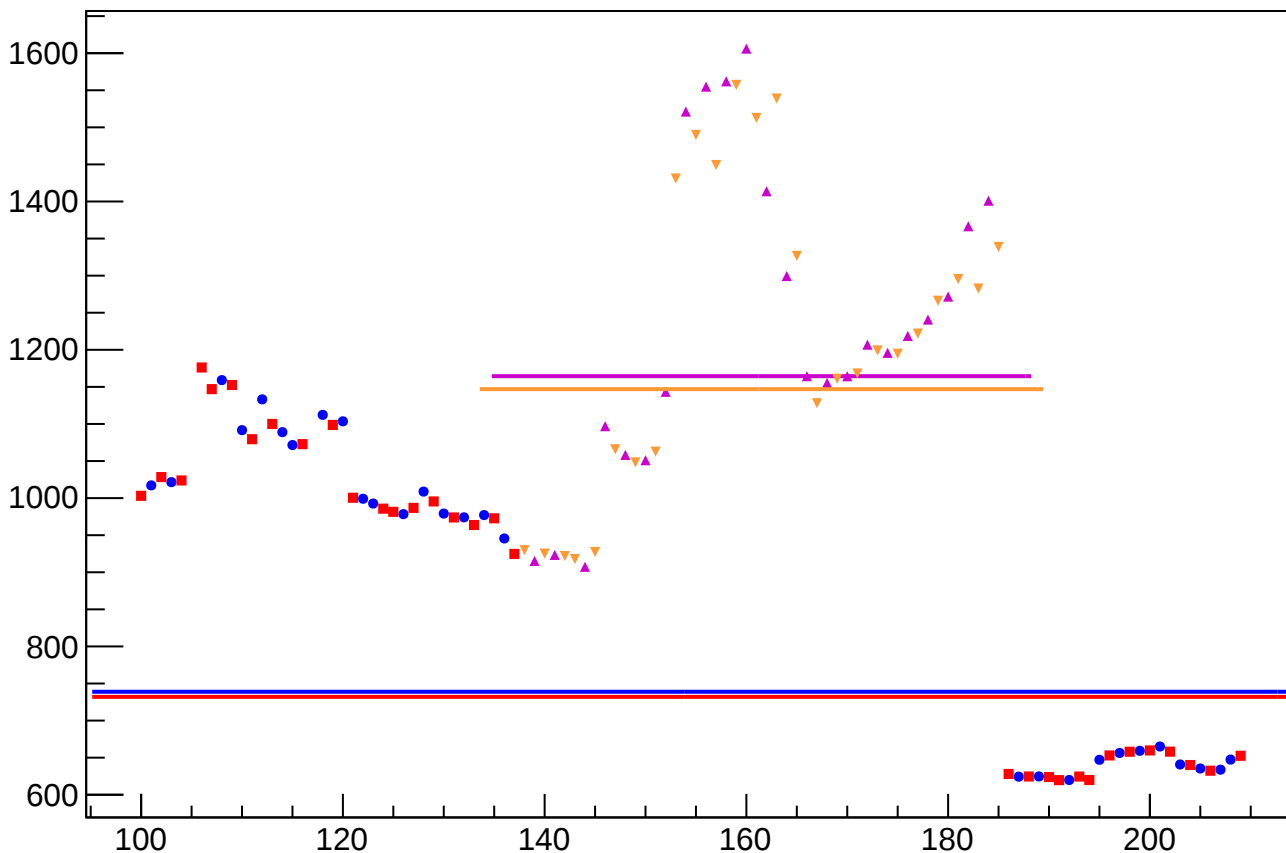
diff_bpm2i01Y_mean vs Slug, Sign Corrected



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: -0.341 ± 0.189 $\chi^2/\text{NDF}: 4438.3/31$
 Left In: -0.566 ± 0.284 $\chi^2/\text{NDF}: 417.0/22$

Left: 2.888 ± 0.196 $\chi^2/\text{NDF}: 1130.7/47$
 Right: 4.117 ± 0.137 $\chi^2/\text{NDF}: 6748.1/59$
 In: 5.909 ± 0.163 $\chi^2/\text{NDF}: 2319.0/50$
 Out: 1.736 ± 0.155 $\chi^2/\text{NDF}: 5242.0/56$
 All: 3.714 ± 0.112 $\chi^2/\text{NDF}: 7905.1/107$

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: 731.969 $\pm$ 0.133 χ^2 /NDF: 1644084.6/31

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

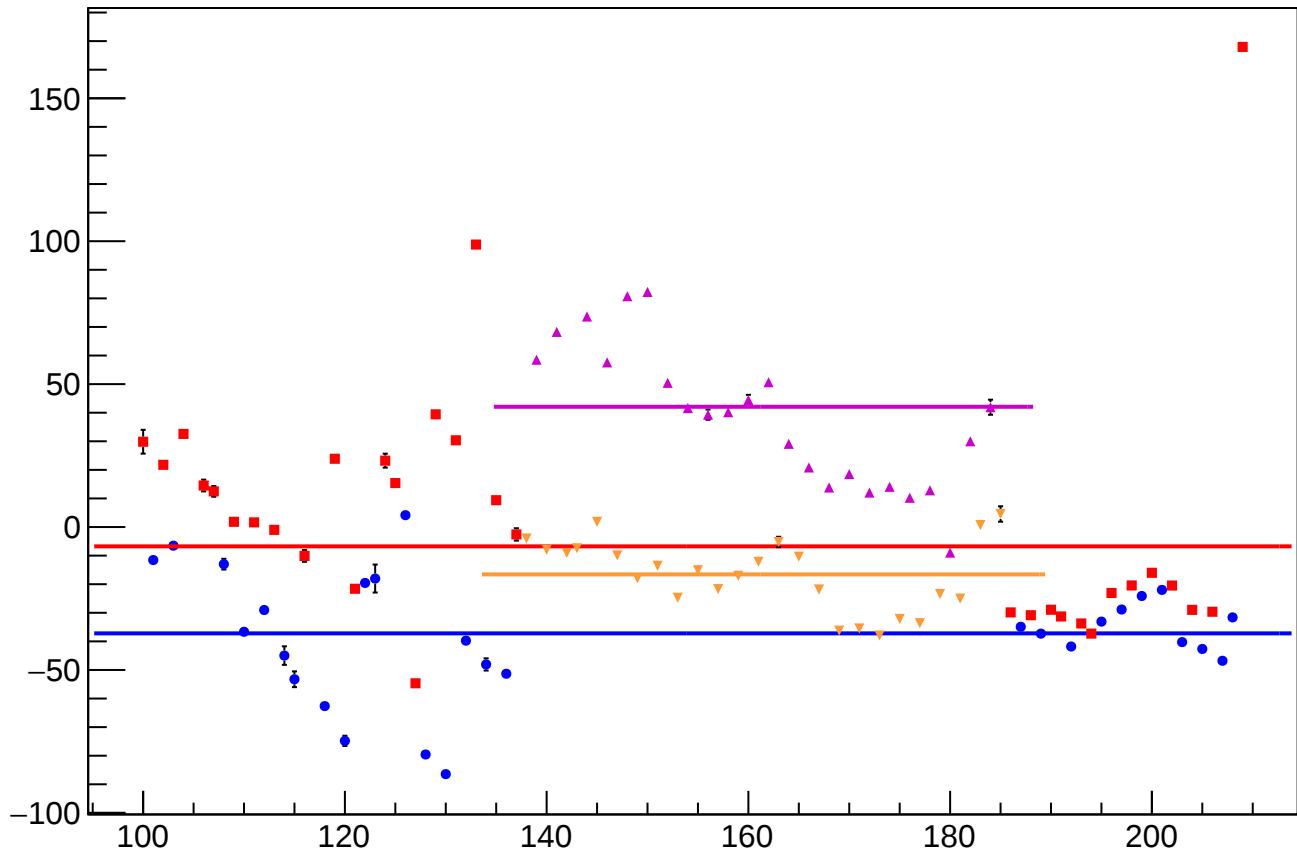
Right: 735.236 $\pm$ 0.097 χ^2 /NDF: 3093021.9/59

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

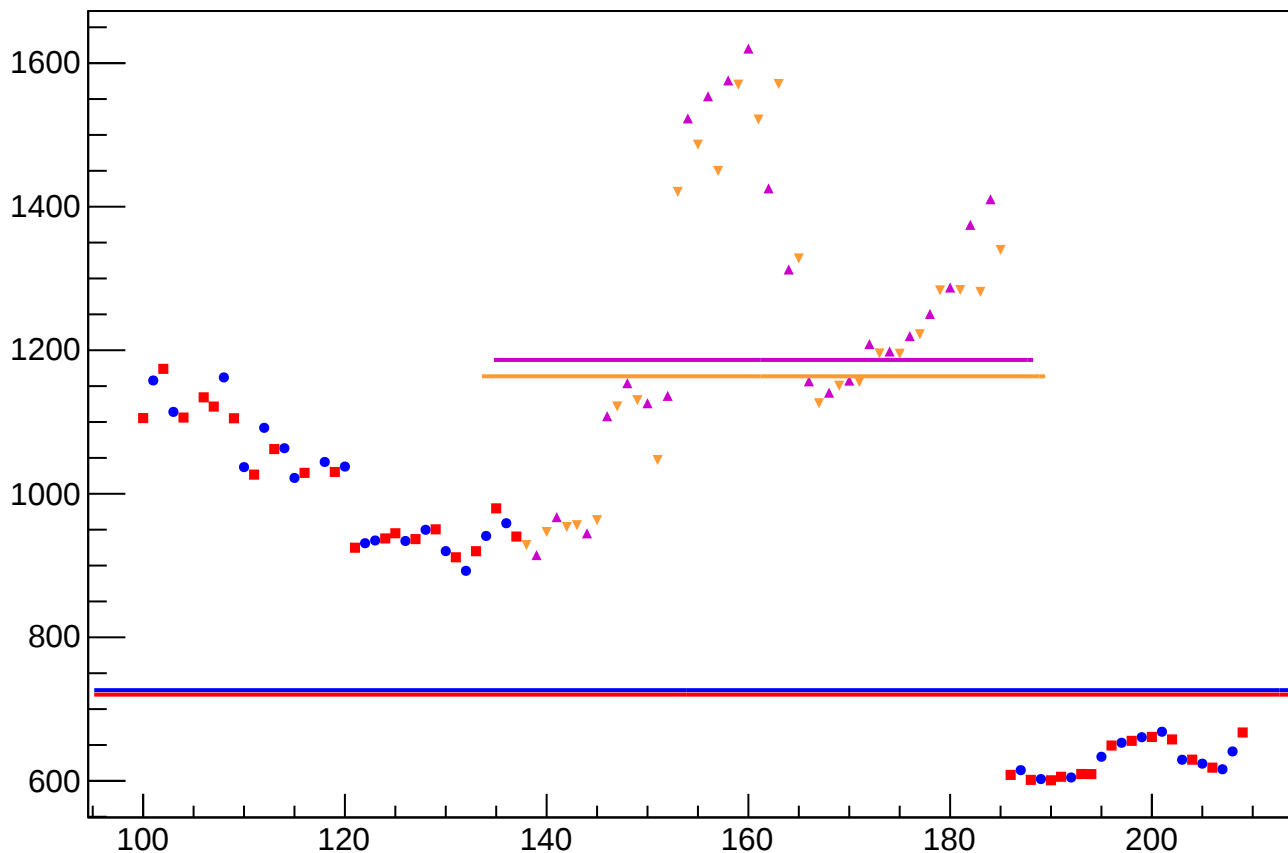
Out: 866.899 $\pm$ 0.110 χ^2 /NDF: 5839280.1/56

All: 872.713 $\pm$ 0.079 χ^2 /NDF: 11244663.6/10

diff_bpm2i02X_mean vs Slug, Sign Corrected



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: 720.187 $\pm$ 0.131 χ^2 /NDF: 1647346.5/31

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

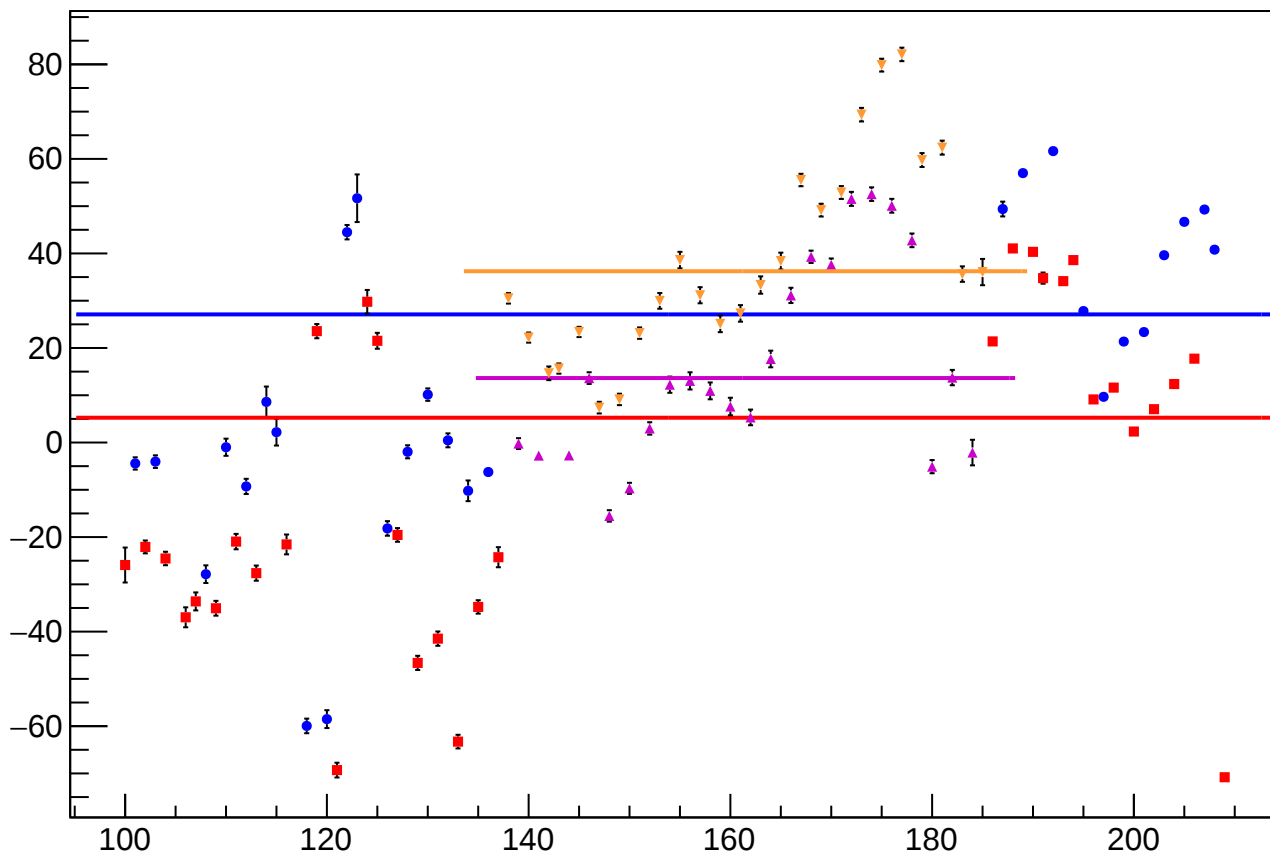
Right: 723.125 $\pm$ 0.095 χ^2 /NDF: 3115307.4/59

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

Out: 858.701 $\pm$ 0.109 χ^2 /NDF:6153901.8/56

All: 864.612 $\pm$ 0.079 χ^2 /NDF: 11931834.2/10

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: 5.249 $\pm$ 0.183 χ^2 /NDF: 31857.7/31

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

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

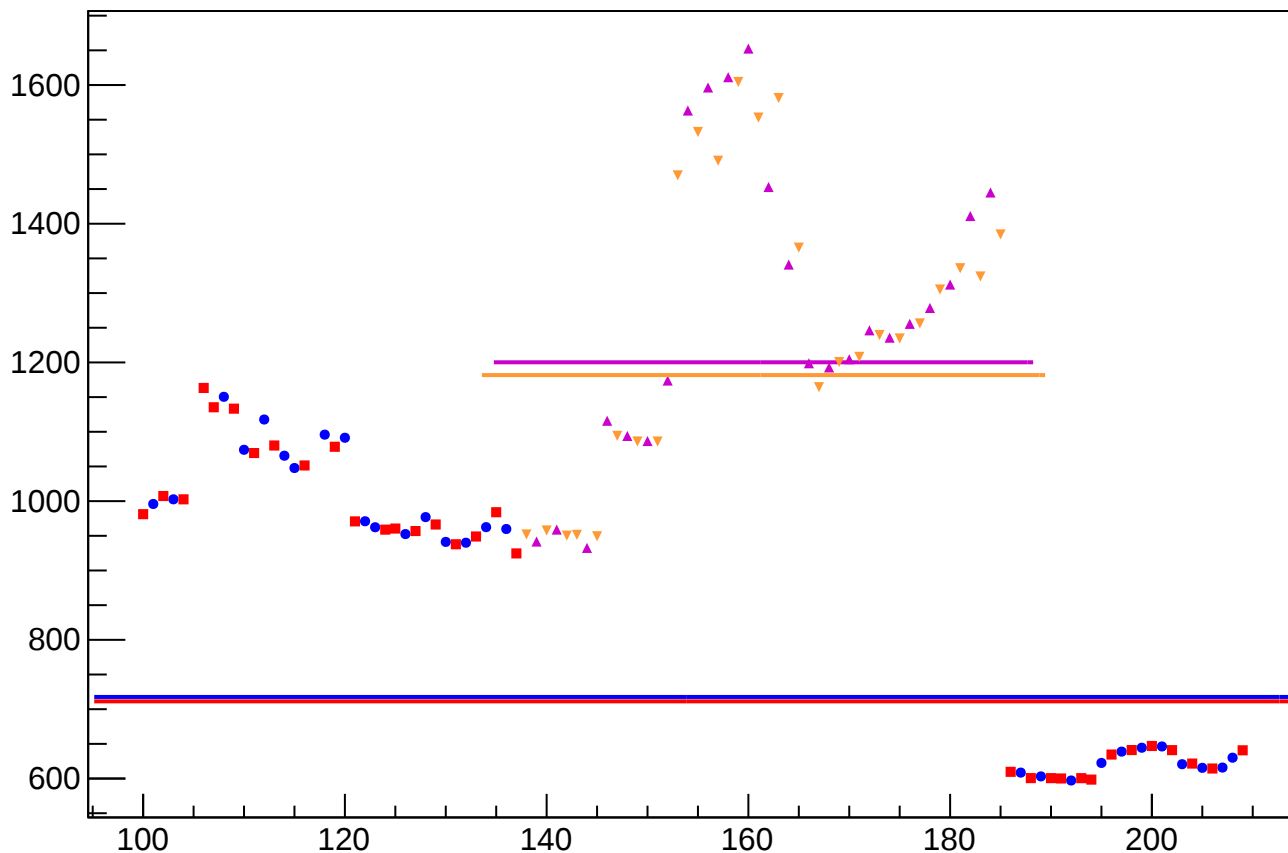
Right: 15.580 $\pm$ 0.133 χ^2 /NDF: 57465.2/59

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

Out: 14.560 $\pm$ 0.153 χ^2 /NDF: 46226.0/56

All: 18.563 $\pm$ 0.111 χ^2 /NDF: 73208.4/107

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: 711.305 $\pm$ 0.130 χ^2 /NDF: 1721499.3/31

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

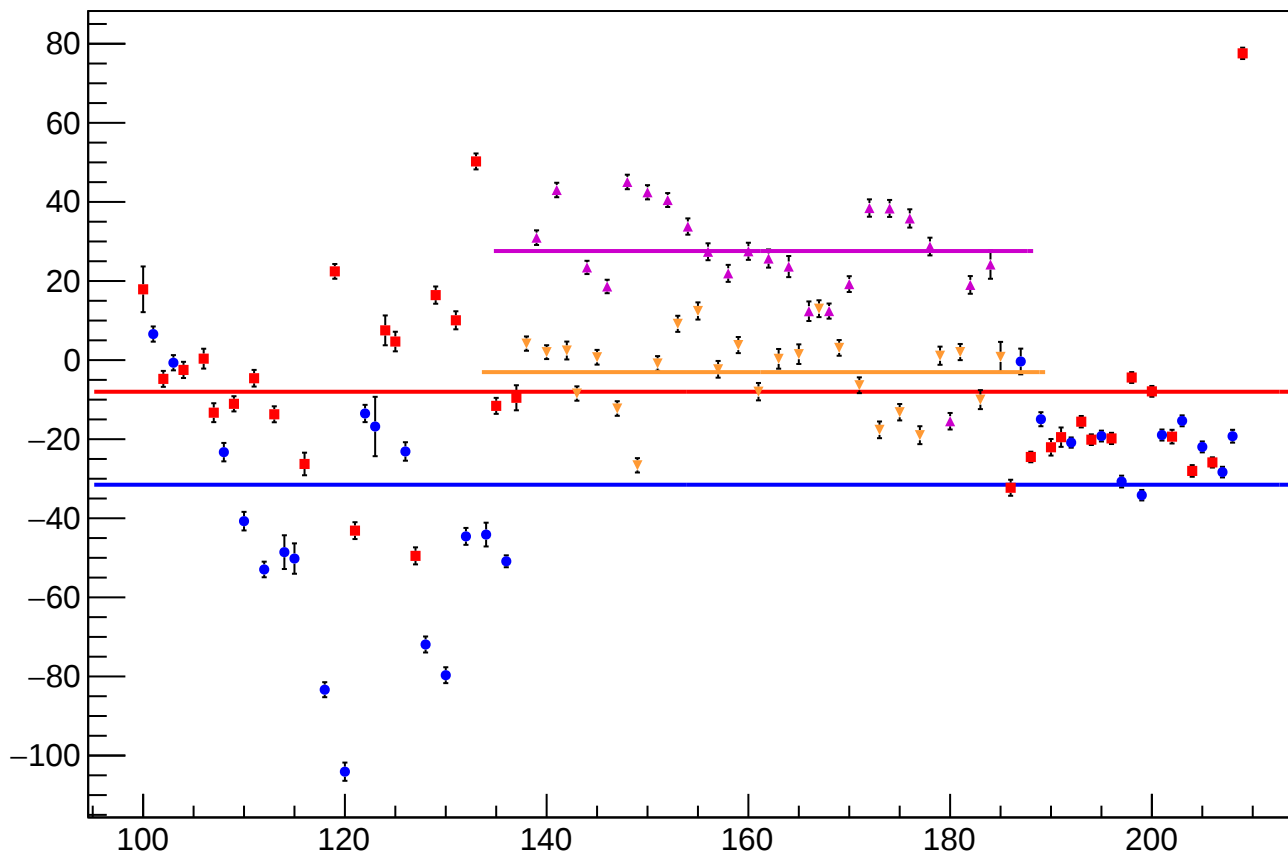
Right: 714.311 $\pm$ 0.094 χ^2 /NDF: 3246344.0/59

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

Out: 852.661 $\pm$ 0.108 χ^2 /NDF:6717667.1/56

All: 858.320 $\pm$ 0.079 χ^2 /NDF: 12963320.9/10

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: -8.002 $\pm$ 0.327 χ^2 /NDF: 6592.5/31

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

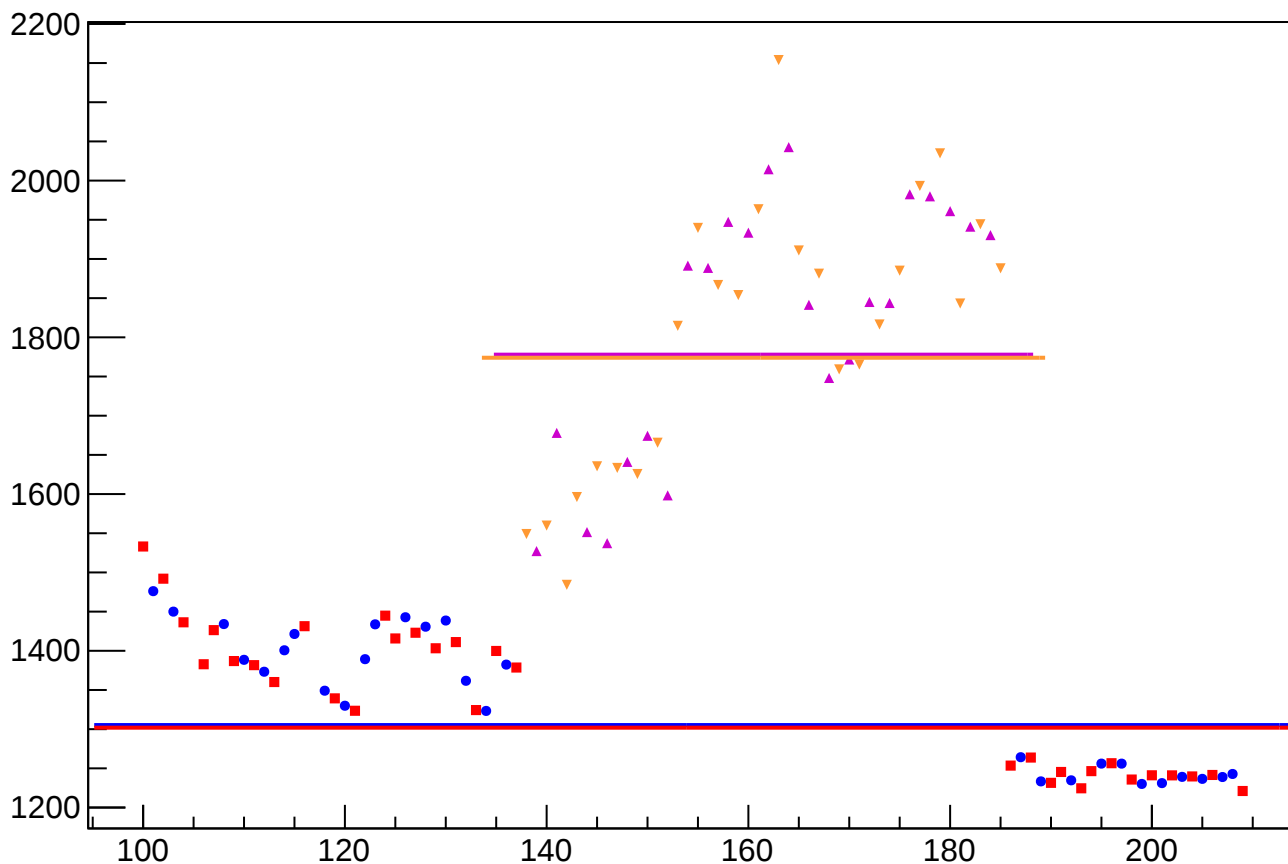
Right: -19.186 $\pm$ 0.237 χ^2 /NDF: 13557.6/59

In: -8.422 $\pm$ 0.268 χ^2 /NDF: 17029.8/50

Out: -6.099 $\pm$ 0.257 χ^2 /NDF: 7236.3/56

All: -7.211 $\pm$ 0.186 χ^2 /NDF: 24305.2/107

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: 1301.899 $\pm$ 0.231 χ^2 /NDF: 121764.3/31

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

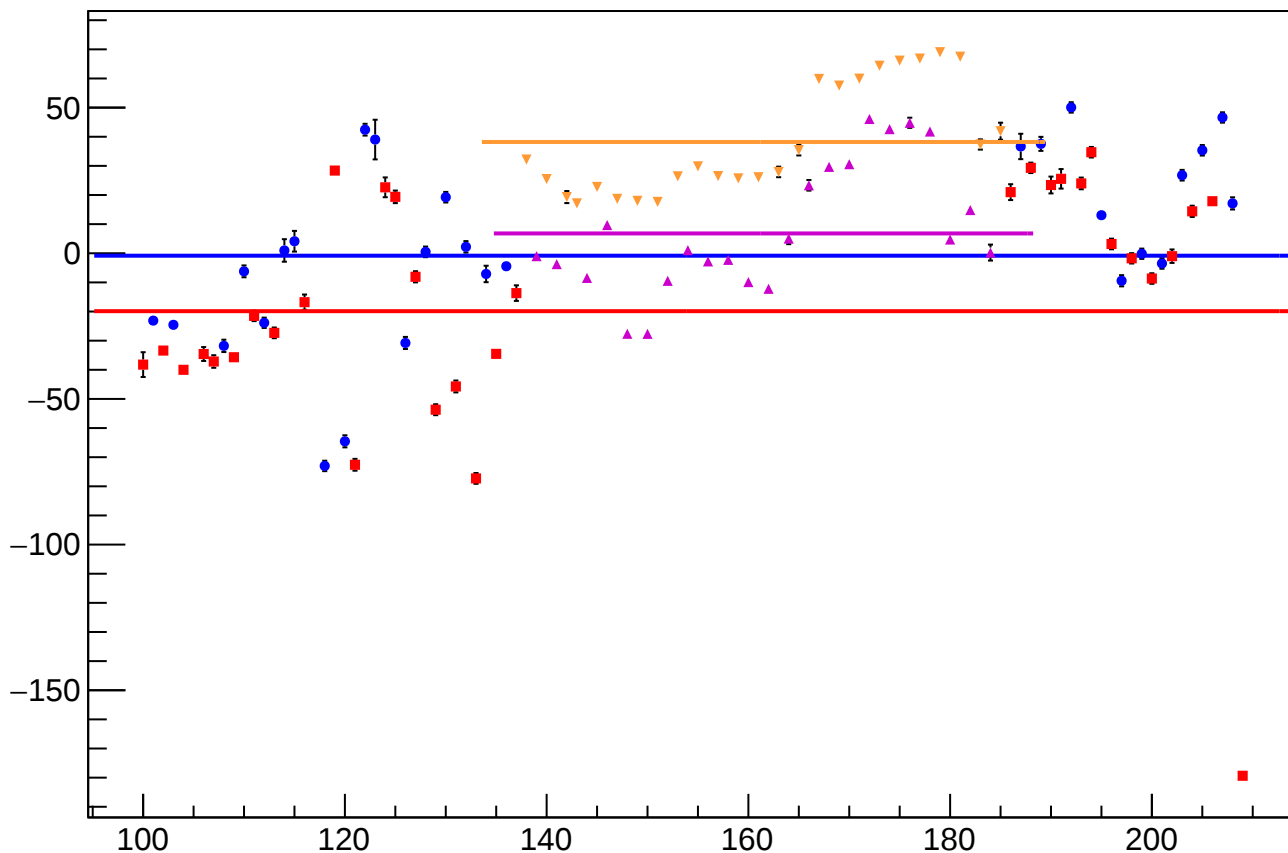
Right: 1303.489 $\pm$ 0.168 χ^2 /NDF: 241384.7/59

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

Out: 1482.846 $\pm$ 0.182 χ^2 /NDF: 2030058.3/56

All: 1486.239 $\pm$ 0.131 χ^2 /NDF: 3928635.7/10

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: -19.874 ± 0.352 χ^2/NDF : 16418.2/31

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

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

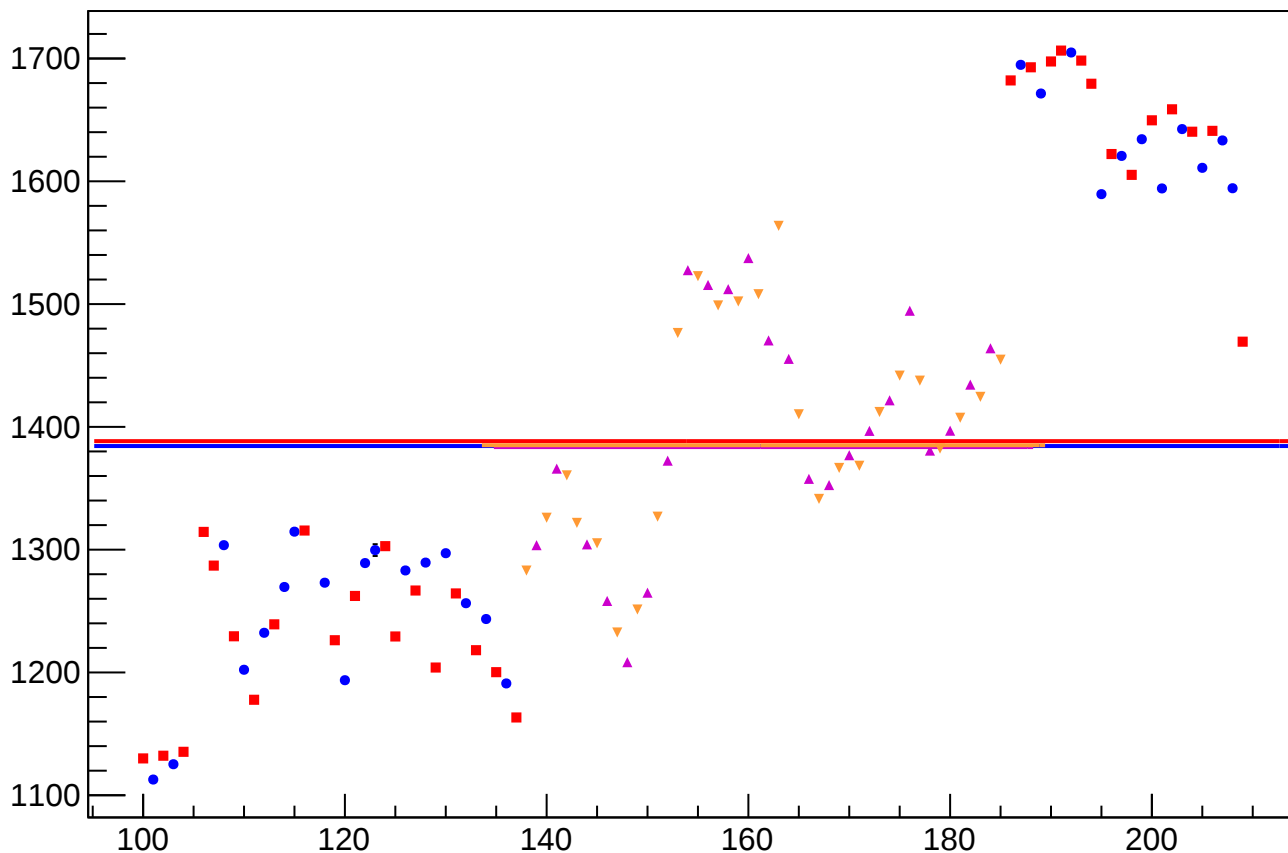
Right: -10.761 ± 0.254 χ^2/NDF : 24736.8/59

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

Out: 11.658 ± 0.238 χ^2/NDF : 34677.7/56

All: 7.659 ± 0.171 χ^2/NDF : 46914.9/107

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: 1388.383 $\pm$ 0.249 χ^2 /NDF: 740064.1/31

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

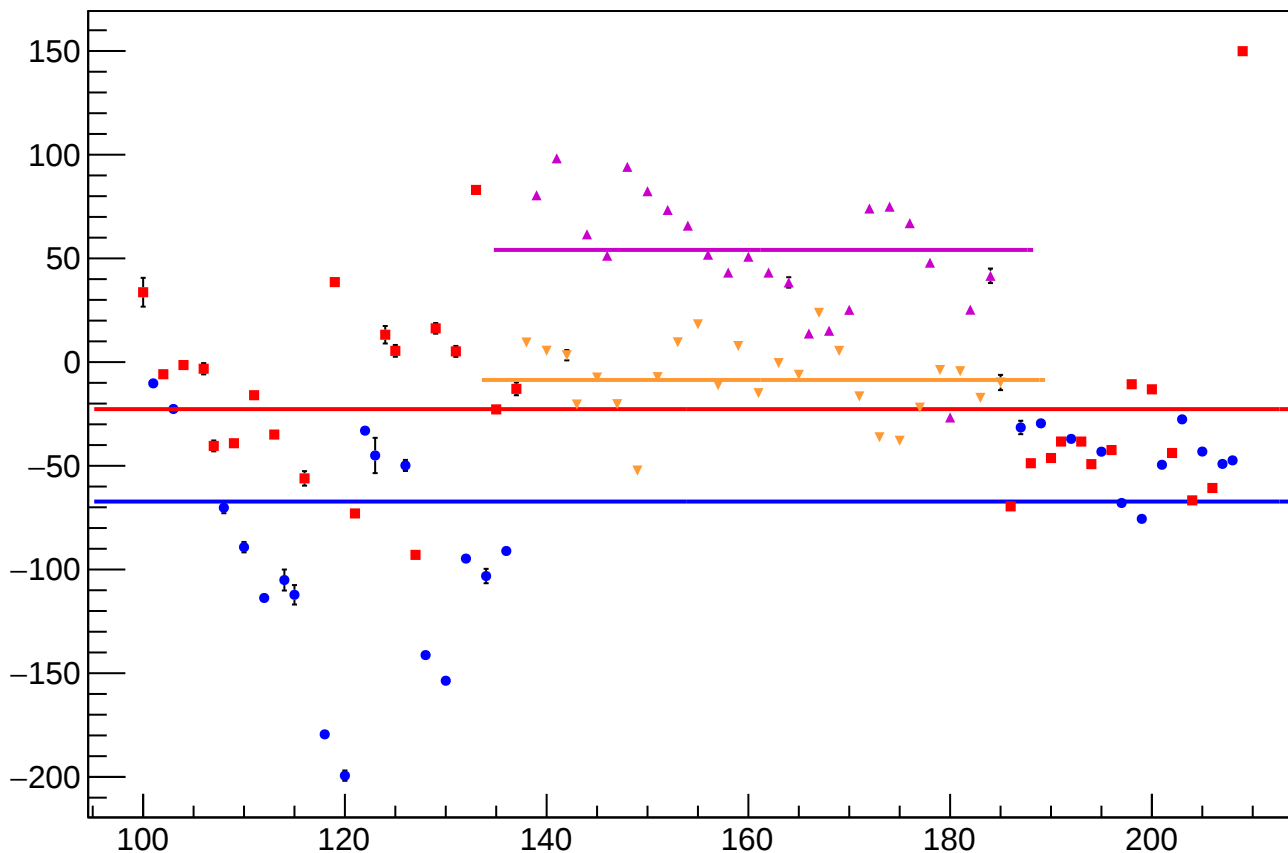
Right: 1386.472 $\pm$ 0.180 χ^2 /NDF: 1367205.2/59

In: 1383.932 $\pm$ 0.175 χ^2 /NDF:781719.8/50

Out: 1386.581 $\pm$ 0.168 χ^2 /NDF:886161.9/56

All: 1385.303 $\pm$ 0.121 χ^2 /NDF: 1668000.9/100

diff_bpm0i02aX_mean vs Slug, Sign Corrected



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

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

Right Out: -22.672 $\pm$ 0.362 χ^2/NDF : 18791.5/31

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

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

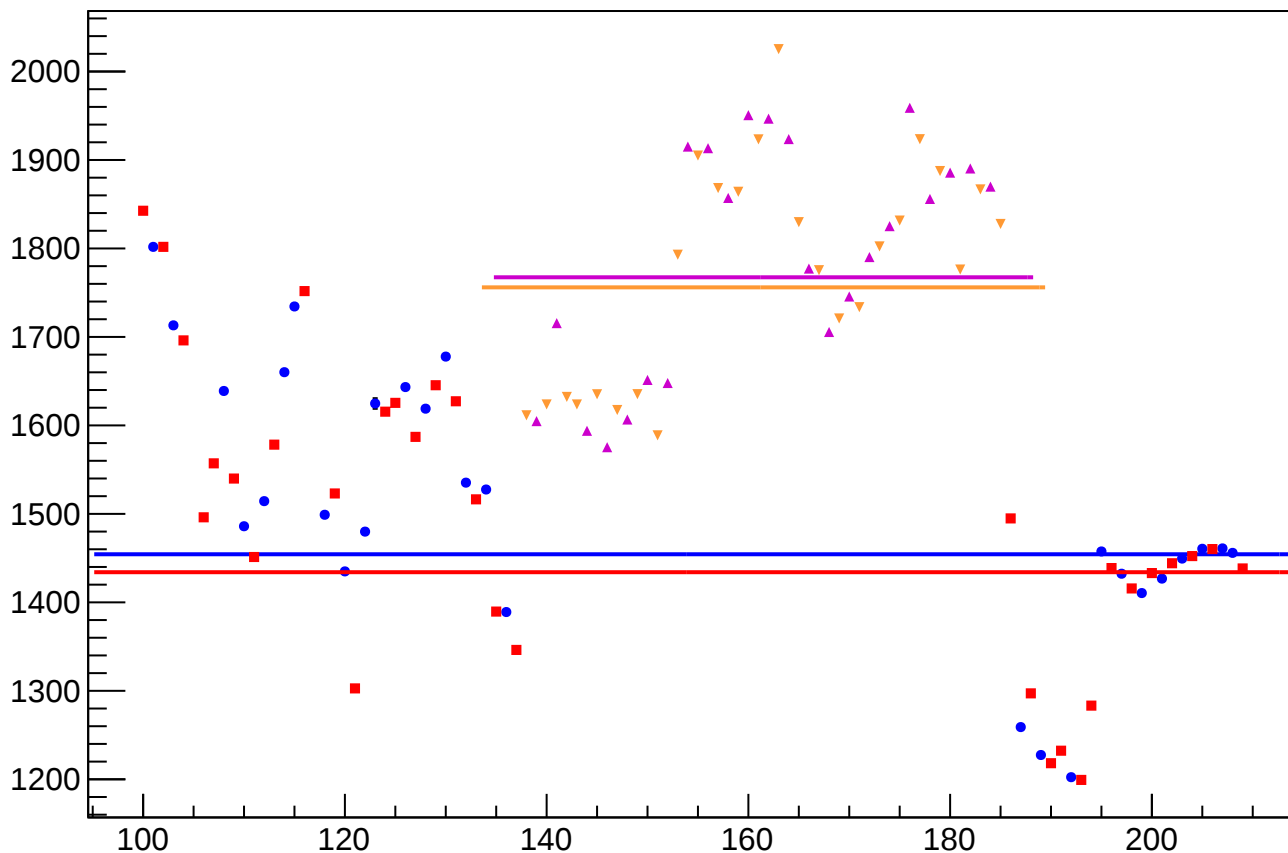
Right: -43.619 $\pm$ 0.263 χ^2/NDF : 38983.3/59

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

Out: -16.523 $\pm$ 0.271 χ^2/NDF :21383.9/56

All: -14.763 $\pm$ 0.196 χ^2/NDF : 84049.4/107

diff_bpm0i02aX_rms vs Slug, Sign Corrected



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

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

Right Out: 1434.074 $\pm$ 0.256 χ^2/NDF : 308751.5/31

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

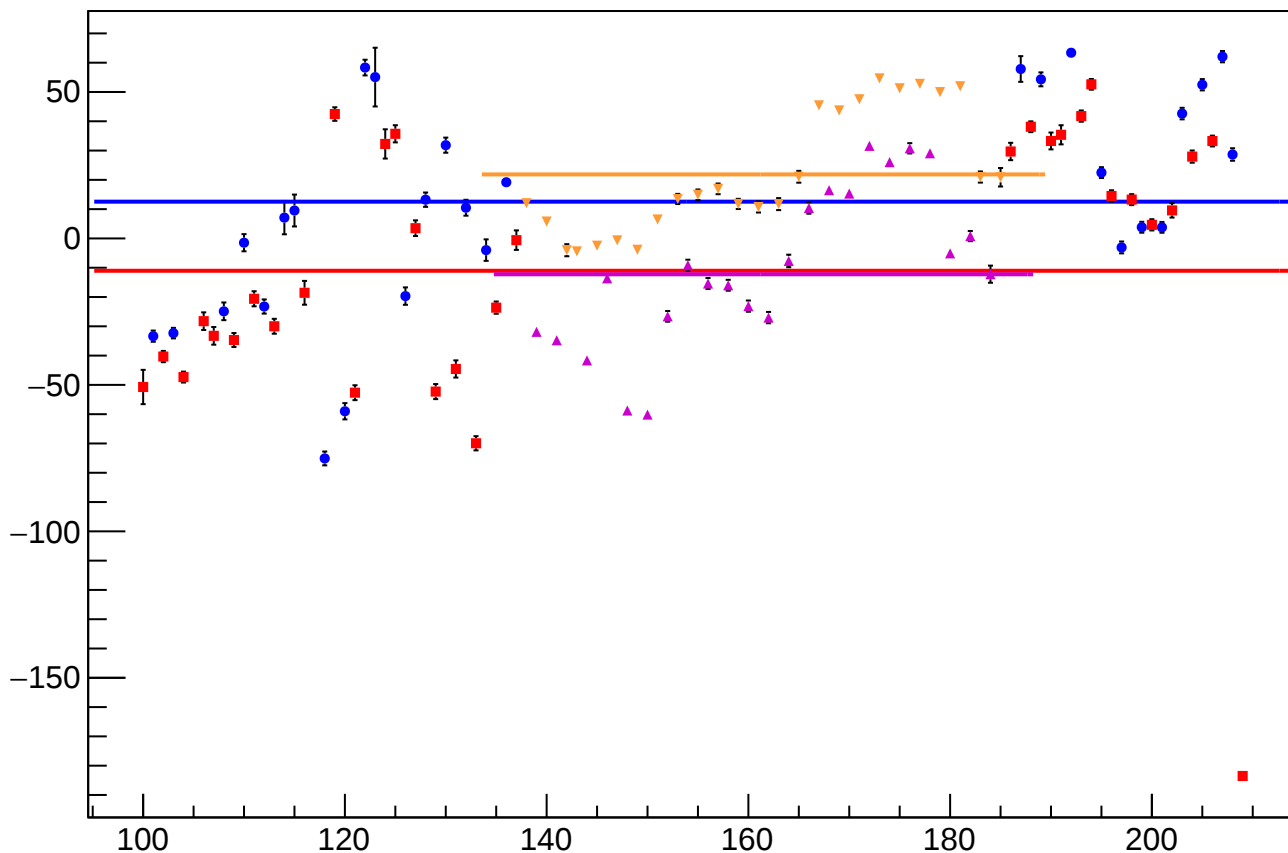
Right: 1443.608 $\pm$ 0.186 χ^2/NDF : 573282.8/59

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

Out: 1574.814 $\pm$ 0.192 χ^2/NDF : 1177945.5/56

All: 1584.297 $\pm$ 0.139 χ^2/NDF : 2229251.1/10

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: -11.034 ± 0.414 χ^2/NDF : 18800.3/31

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

Left: 5.391 ± 0.241 χ^2/NDF : 15885.7/47

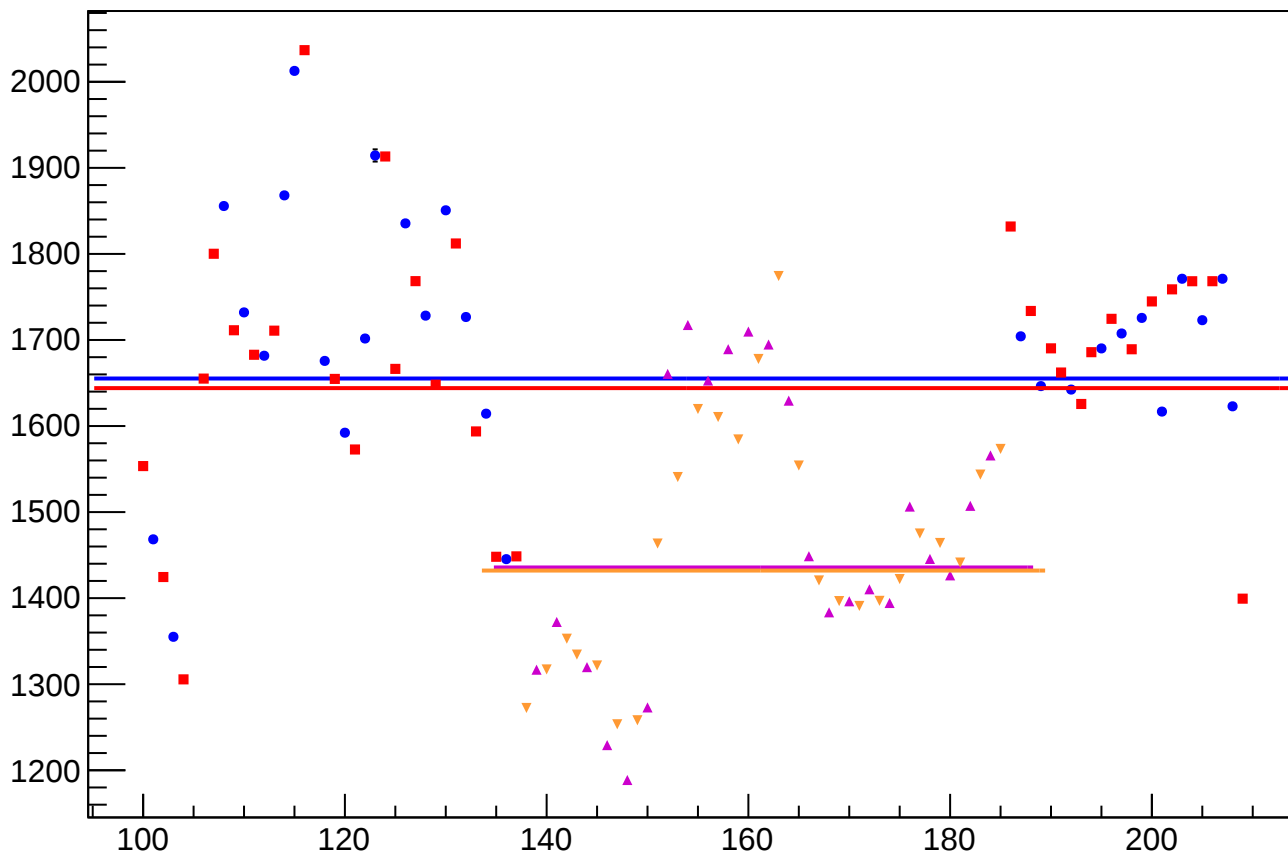
Right: 0.137 ± 0.301 χ^2/NDF : 27275.8/59

In: -2.651 ± 0.272 χ^2/NDF : 15698.1/50

Out: 8.841 ± 0.261 χ^2/NDF : 26717.8/56

All: 3.334 ± 0.188 χ^2/NDF : 43347.3/107

diff_bpm0i02aY_rms vs Slug, Sign Corrected



Right In: 1655.222+/-0.309 χ^2/NDF : 180379.6/27

Left Out: 1432.060+/-0.237 χ^2/NDF : 297360.3/24

Right Out: 1644.054+/-0.293 χ^2/NDF : 253270.3/31

Left In: 1435.645+/-0.245 χ^2/NDF : 420835.0/22

Left: 1433.791+/-0.171 χ^2/NDF : 718305.7/47

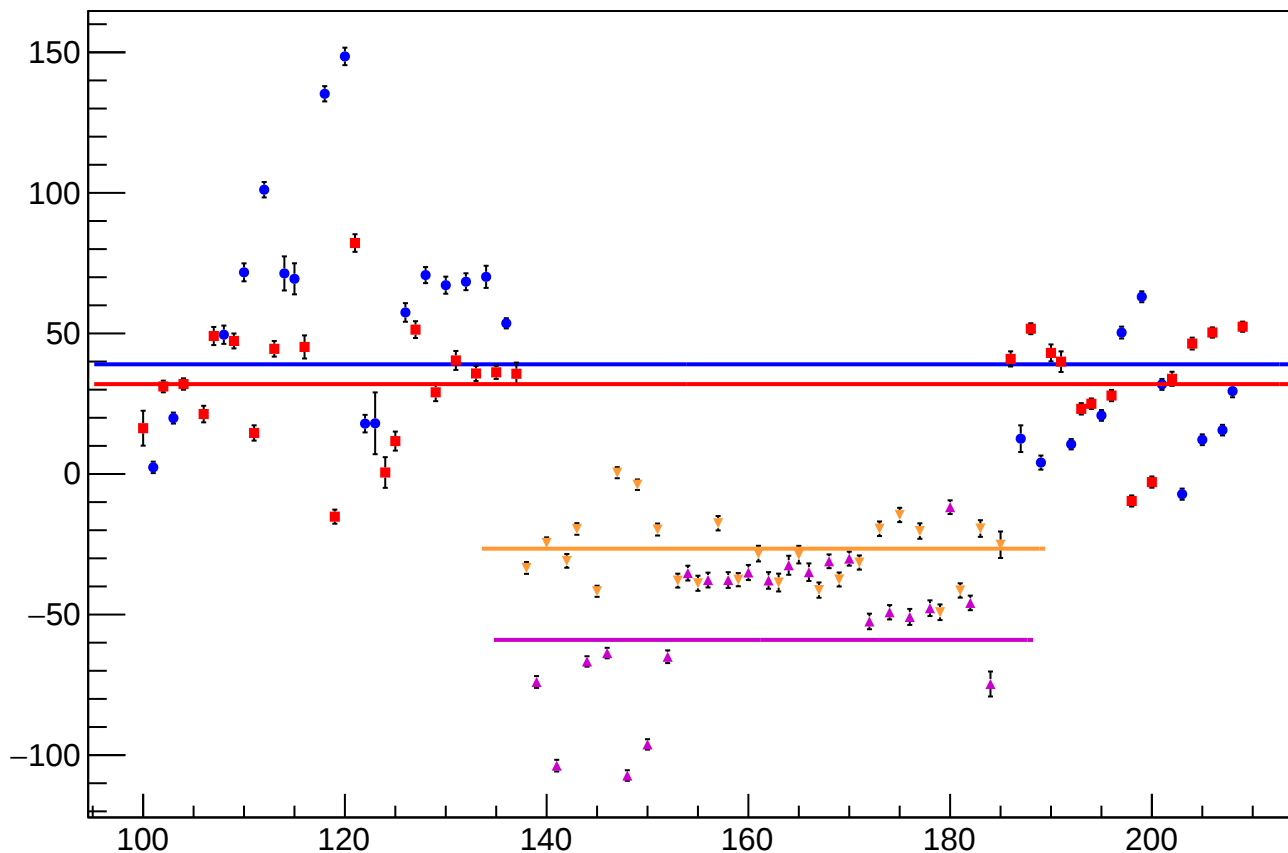
Right: 1649.343+/-0.213 χ^2/NDF : 434337.8/59

In: 1520.597+/-0.192 χ^2/NDF : 910954.1/50

Out: 1515.948+/-0.184 χ^2/NDF : 866961.0/56

All: 1518.176+/-0.133 χ^2/NDF : 1778219.9/10

diff_bpm0i05X_mean vs Slug, Sign Corrected



Right In: 39.022 ± 0.467 $\chi^2/\text{NDF}: 5776.4/27$

Left Out: -26.554 ± 0.488 $\chi^2/\text{NDF}: 717.5/24$

Right Out: 31.972 ± 0.442 $\chi^2/\text{NDF}: 2085.6/31$

Left In: -59.014 ± 0.506 $\chi^2/\text{NDF}: 2783.8/22$

Left: -42.178 ± 0.351 $\chi^2/\text{NDF}: 5632.2/47$

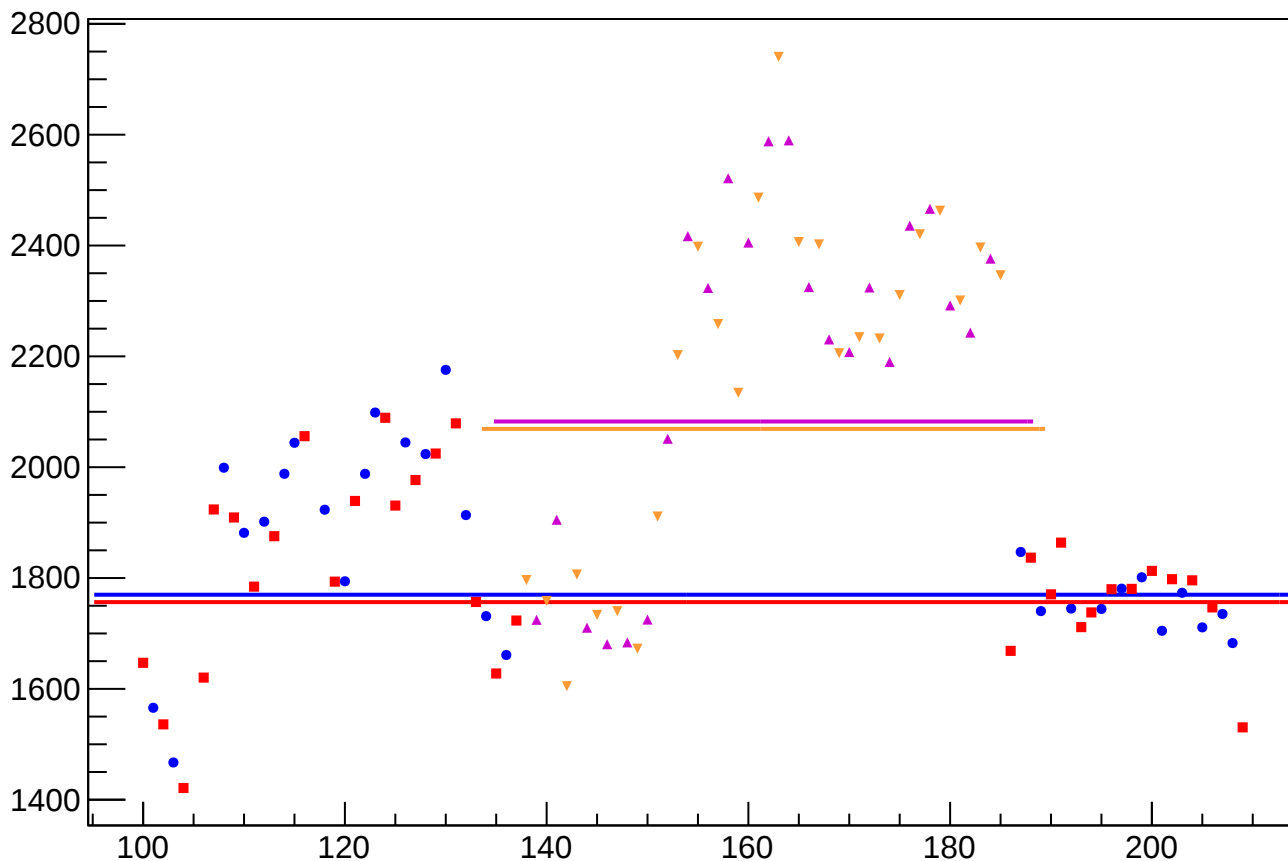
Right: 35.305 ± 0.321 $\chi^2/\text{NDF}: 7982.1/59$

In: -6.038 ± 0.343 $\chi^2/\text{NDF}: 28810.6/50$

Out: 5.564 ± 0.328 $\chi^2/\text{NDF}: 10700.8/56$

All: 0.033 ± 0.237 $\chi^2/\text{NDF}: 40108.9/107$

diff_bpm0i05X_rms vs Slug, Sign Corrected



Right In: 1769.911 $\pm$ 0.330 χ^2 /NDF: 197816.9/27

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

Right Out: 1756.560 $\pm$ 0.313 χ^2 /NDF: 221951.9/31

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

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

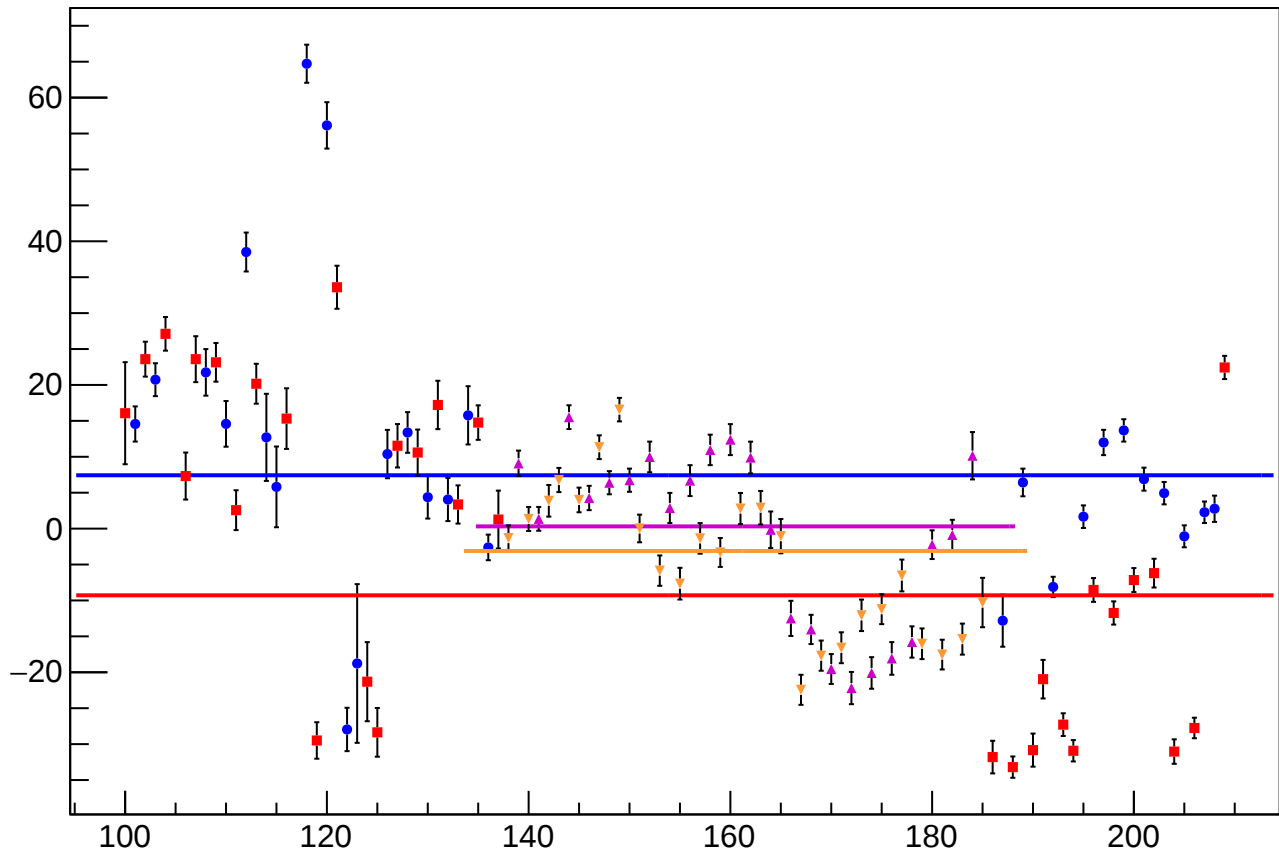
Right: 1762.874 $\pm$ 0.227 χ^2 /NDF: 420630.3/59

In: 1913.585 $\pm$ 0.243 χ^2 /NDF: 1394873.1/50

Out: 1897.604 $\pm$ 0.232 χ^2 /NDF: 1471574.5/56

All: 1905.222 $\pm$ 0.168 χ^2 /NDF: 2868715.0/10

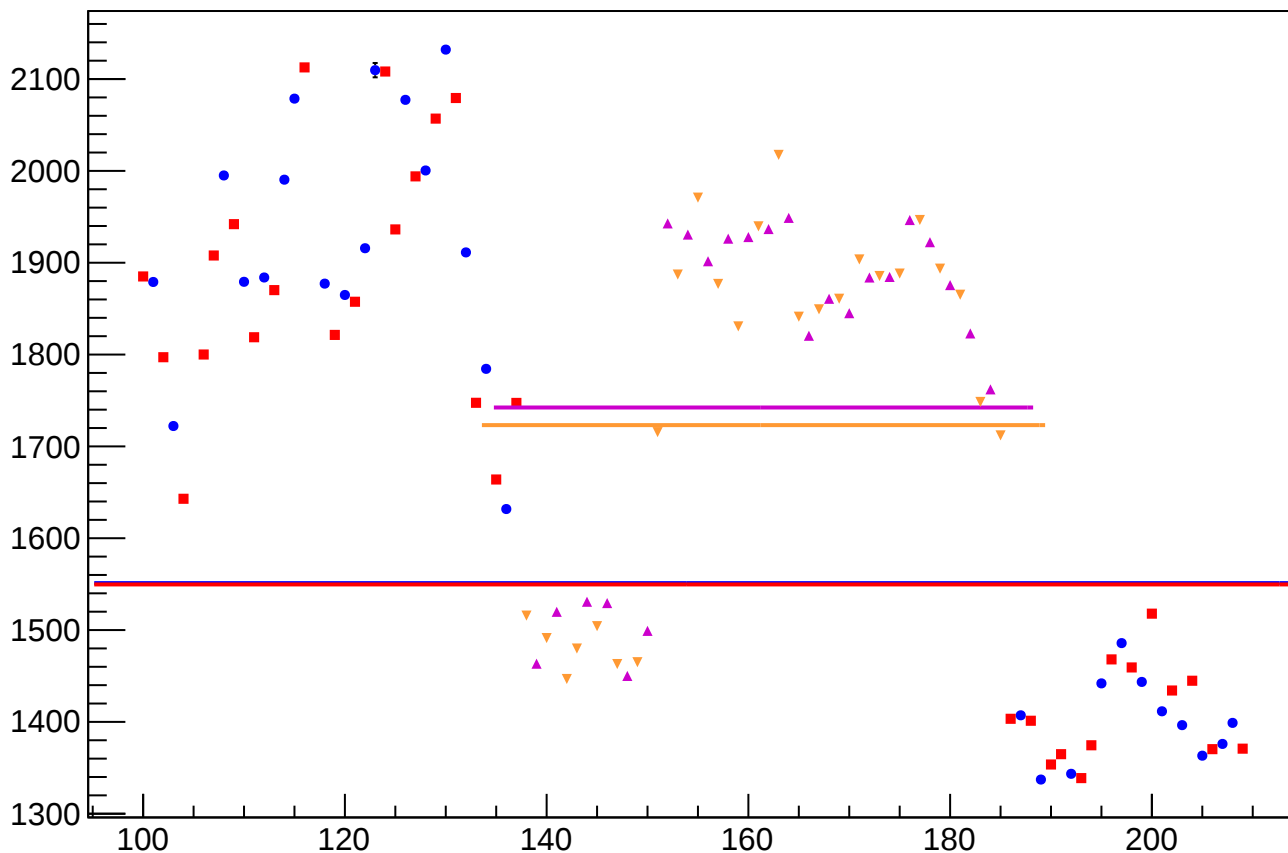
diff_bpm0i05Y_mean vs Slug, Sign Corrected



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: -9.286 $\pm$ 0.393 χ^2/NDF : 2989.0/31
 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: -1.336 $\pm$ 0.285 χ^2/NDF : 5169.9/59
 In: 3.942 $\pm$ 0.295 χ^2/NDF : 2202.6/50
 Out: -6.286 $\pm$ 0.282 χ^2/NDF : 3752.7/56
 All: -1.401 $\pm$ 0.204 χ^2/NDF : 6584.7/107

diff_bpm0i05Y_rms vs Slug, Sign Corrected



Right In: 1551.113 ± 0.292 $\chi^2/\text{NDF}: 661757.5/27$

Left Out: 1723.168 ± 0.286 $\chi^2/\text{NDF}: 477441.1/24$

Right Out: 1549.679 ± 0.278 $\chi^2/\text{NDF}: 640320.0/31$

Left In: 1742.354 ± 0.298 $\chi^2/\text{NDF}: 435841.5/22$

Left: 1732.370 ± 0.206 $\chi^2/\text{NDF}: 915443.3/47$

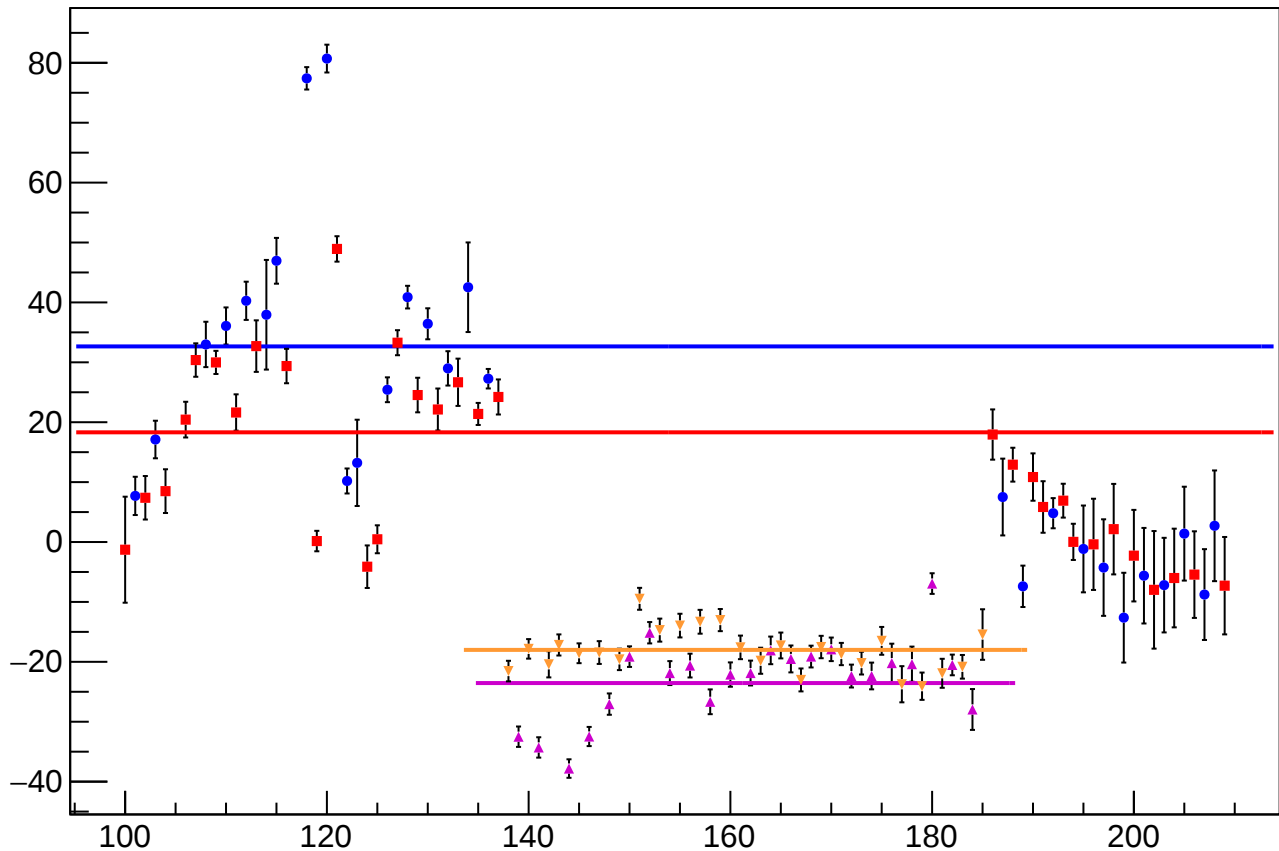
Right: 1550.361 ± 0.201 $\chi^2/\text{NDF}: 1302090.2/59$

In: 1644.772 ± 0.208 $\chi^2/\text{NDF}: 1308097.8/50$

Out: 1633.966 ± 0.199 $\chi^2/\text{NDF}: 1307169.5/56$

All: 1639.127 ± 0.144 $\chi^2/\text{NDF}: 2616672.3/100$

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: 18.313 ± 0.547 $\chi^2/\text{NDF}: 715.2/31$

Left In: -23.544 ± 0.406 $\chi^2/\text{NDF}: 346.7/22$

Left: -20.714 ± 0.284 $\chi^2/\text{NDF}: 515.7/47$

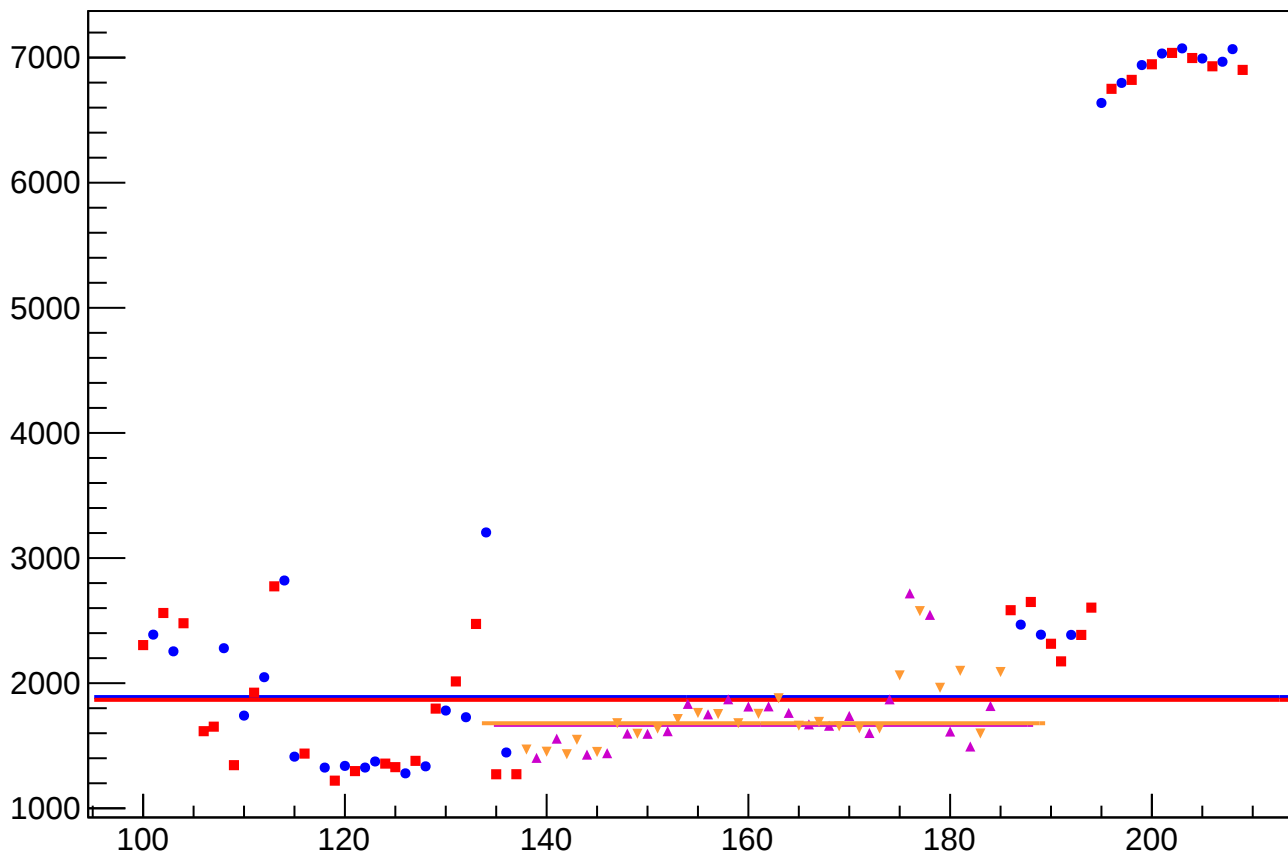
Right: 24.914 ± 0.402 $\chi^2/\text{NDF}: 2766.0/59$

In: -5.619 ± 0.335 $\chi^2/\text{NDF}: 8203.7/50$

Out: -5.501 ± 0.321 $\chi^2/\text{NDF}: 3675.4/56$

All: -5.557 ± 0.232 $\chi^2/\text{NDF}: 11879.2/107$

diff_bpm0i07X_rms vs Slug, Sign Corrected



Right In: 1889.013+/-0.419 χ^2/NDF : 7885972.7/27

Left Out: 1679.814+/-0.281 χ^2/NDF : 522795.6/24

Right Out: 1866.874+/-0.387 χ^2/NDF : 7550174.9/31

Left In: 1666.819+/-0.287 χ^2/NDF : 650990.8/22

Left: 1673.462+/-0.201 χ^2/NDF : 1174835.7/47

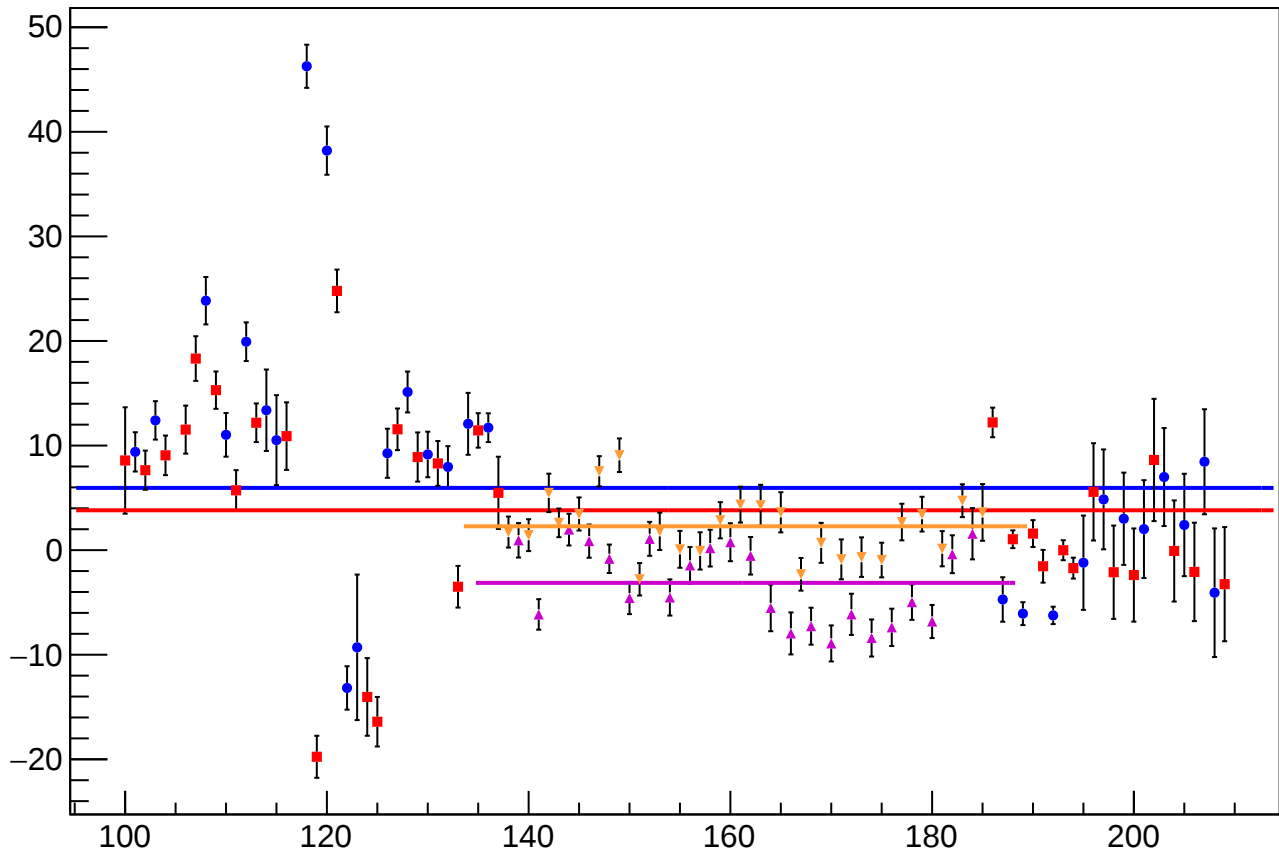
Right: 1877.064+/-0.284 χ^2/NDF : 15437653.4/59

In: 1737.691+/-0.237 χ^2/NDF : 8728354.0/50

Out: 1744.226+/-0.227 χ^2/NDF : 8226105.0/56

All: 1741.094+/-0.164 χ^2/NDF : 16954855.9/112

diff_bpm0i07Y_mean vs Slug, Sign Corrected



Right In: 5.952 ± 0.393 $\chi^2/\text{NDF}: 1229.3/27$

Left Out: 2.280 ± 0.338 $\chi^2/\text{NDF}: 75.6/24$

Right Out: 3.810 ± 0.327 $\chi^2/\text{NDF}: 652.0/31$

Left In: -3.129 ± 0.358 $\chi^2/\text{NDF}: 103.4/22$

Left: -0.274 ± 0.246 $\chi^2/\text{NDF}: 299.7/47$

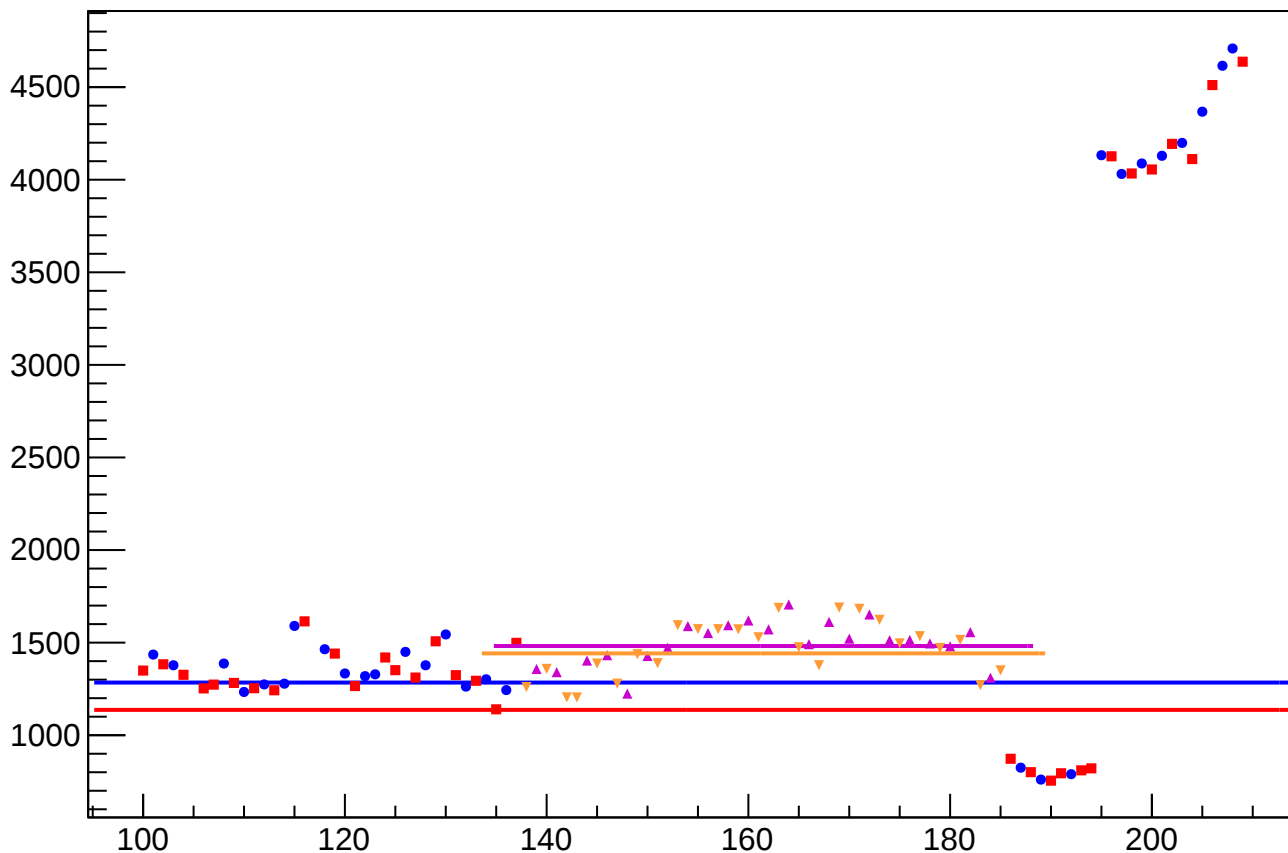
Right: 4.687 ± 0.251 $\chi^2/\text{NDF}: 1898.9/59$

In: 0.990 ± 0.264 $\chi^2/\text{NDF}: 1625.0/50$

Out: 3.072 ± 0.235 $\chi^2/\text{NDF}: 738.2/56$

All: 2.153 ± 0.176 $\chi^2/\text{NDF}: 2397.9/107$

diff_bpm0i07Y_rms vs Slug, Sign Corrected



Right In: 1284.403+/-0.278

χ^2/NDF : 7429595.9/27

Left Out: 1441.951+/-0.239

χ^2/NDF : 370617.4/24

Right Out: 1136.808+/-0.231

χ^2/NDF : 7108585.6/31

Left In: 1481.695+/-0.253

χ^2/NDF : 208470.6/22

Left: 1460.716+/-0.174

χ^2/NDF : 592125.7/47

Right: 1197.201+/-0.178

χ^2/NDF : 14705185.8/59

In: 1392.224+/-0.187

χ^2/NDF : 7914084.8/50

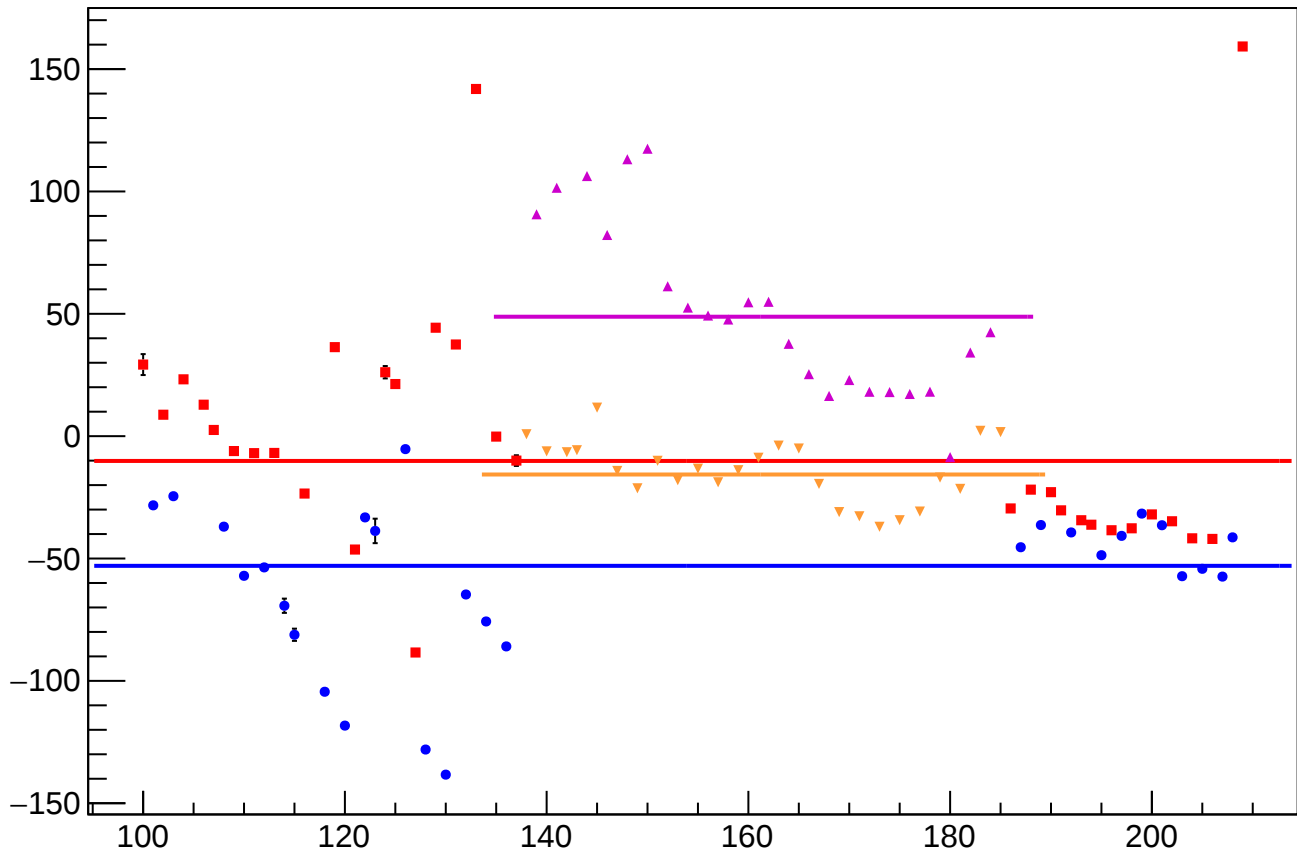
Out: 1284.094+/-0.166

χ^2/NDF : 8321251.5/56

All: 1331.817+/-0.124

χ^2/NDF : 16422226.5/1

diff_bpm1i02X_mean vs Slug, Sign Corrected



Right In: -52.990 ± 0.194 $\chi^2/\text{NDF}: 17268.5/27$

Left Out: -15.666 ± 0.212 $\chi^2/\text{NDF}: 3518.1/24$

Right Out: -10.126 ± 0.184 $\chi^2/\text{NDF}: 86443.8/31$

Left In: 48.812 ± 0.220 $\chi^2/\text{NDF}: 25260.8/22$

Left: 15.324 ± 0.152 $\chi^2/\text{NDF}: 73443.2/47$

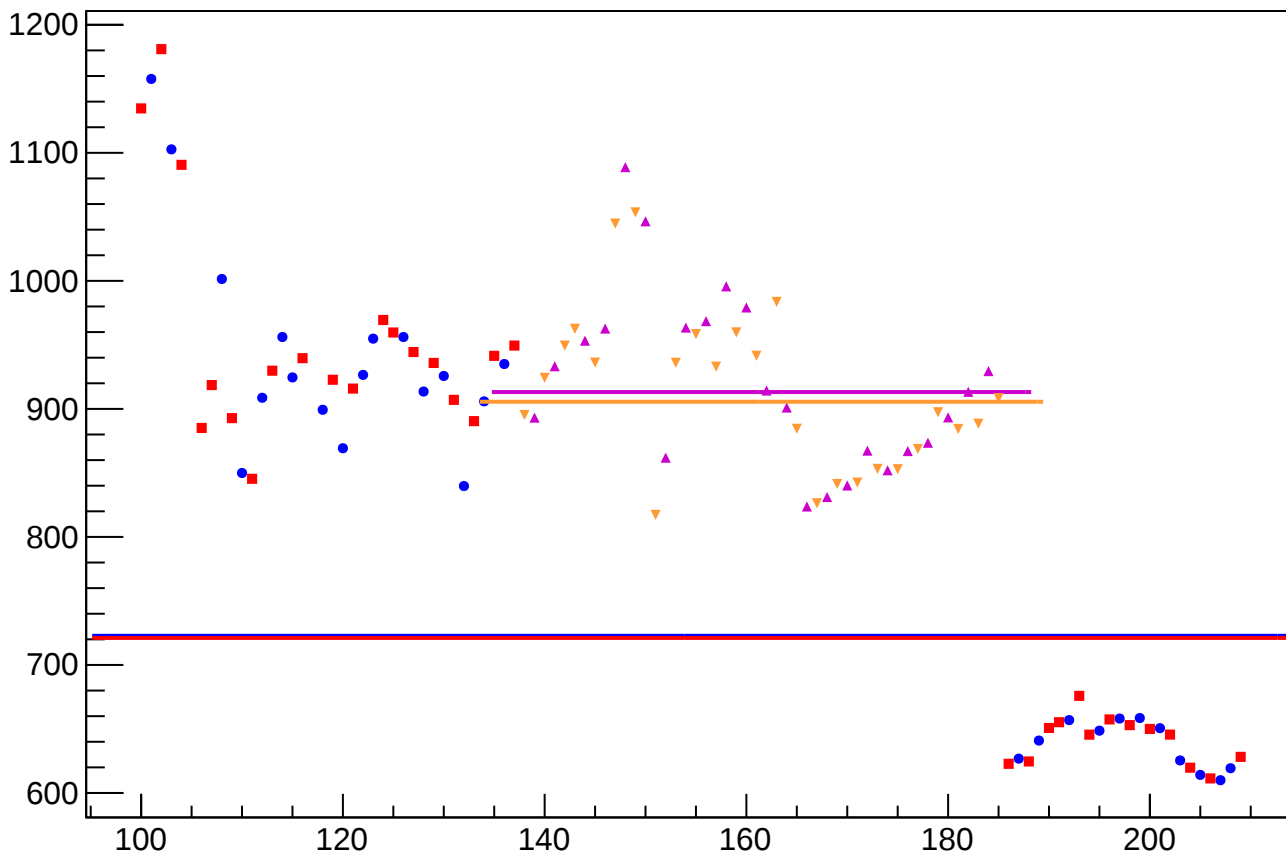
Right: -30.499 ± 0.133 $\chi^2/\text{NDF}: 129436.9/59$

In: -8.534 ± 0.145 $\chi^2/\text{NDF}: 163288.8/50$

Out: -12.516 ± 0.139 $\chi^2/\text{NDF}: 90352.0/56$

All: -10.614 ± 0.100 $\chi^2/\text{NDF}: 254033.0/107$

diff_bpm1i02X_rms vs Slug, Sign Corrected



Right In: 722.764 $\pm$ 0.137 χ^2 /NDF: 1089869.9/27

Left Out: 905.578 $\pm$ 0.150 χ^2 /NDF:162073.5/24

Right Out: 721.108 $\pm$ 0.130 χ^2 /NDF: 1155471.4/31

Left In: 913.165 $\pm$ 0.155 χ^2 /NDF:174438.8/22

Left: 909.225 $\pm$ 0.108 χ^2 /NDF: 337749.0/47

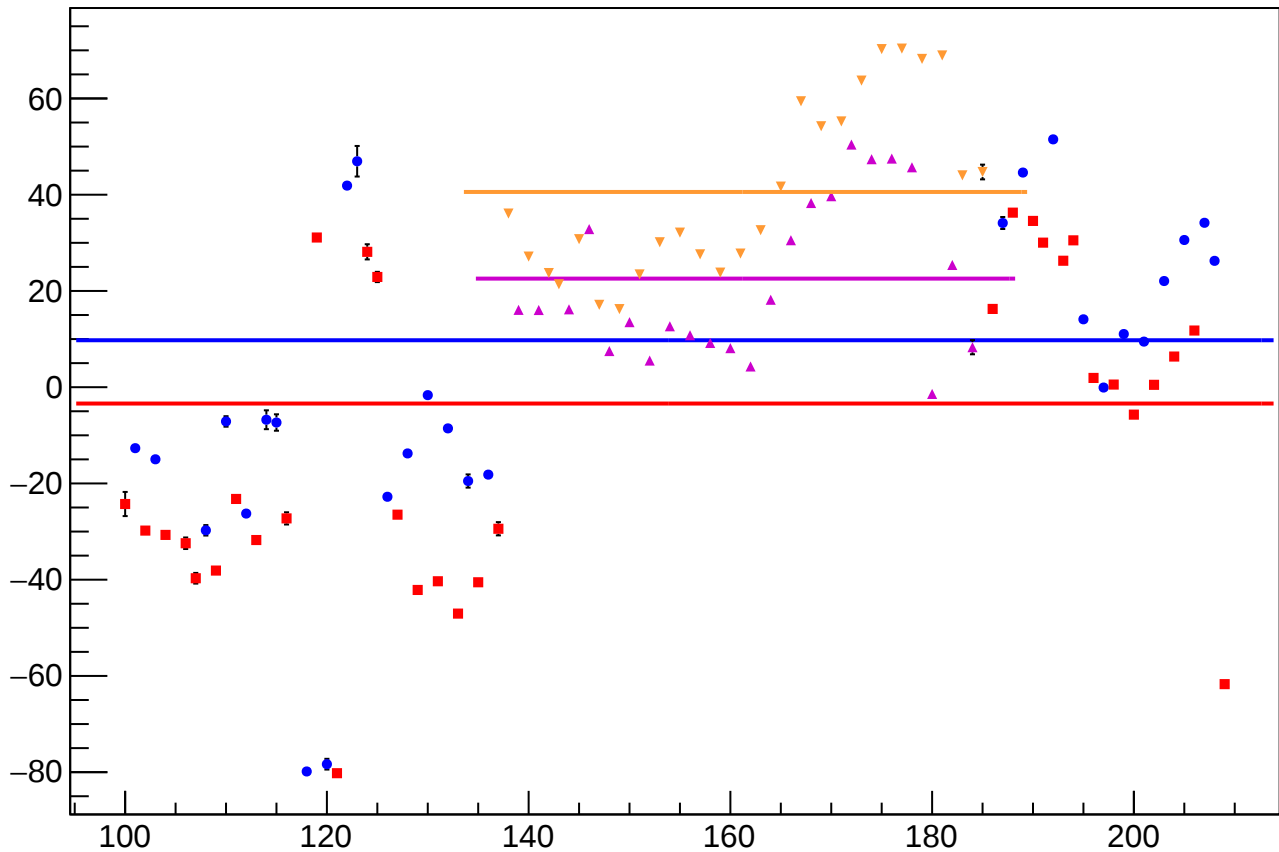
Right: 721.895 $\pm$ 0.094 χ^2 /NDF: 2245418.2/59

In: 805.909 $\pm$ 0.103 χ^2 /NDF:2109143.3/50

Out: 800.694 $\pm$ 0.098 χ^2 /NDF:2182492.1/56

All: 803.185 $\pm$ 0.071 χ^2 /NDF: 4292981.4/107

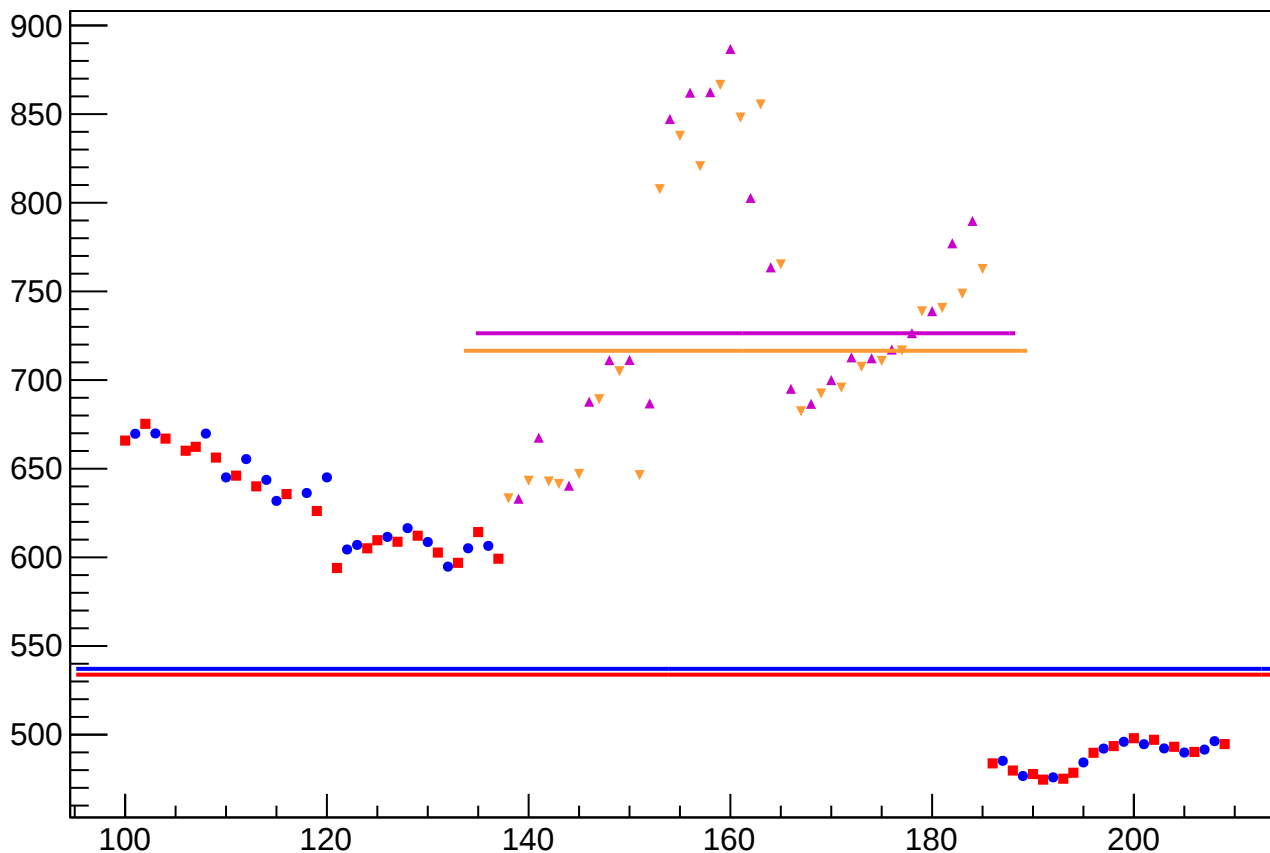
diff_bpm1i02Y_mean vs Slug, Sign Corrected



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: -3.396 ± 0.135 χ^2/NDF : 52354.6/31
 Left In: 22.565 ± 0.175 χ^2/NDF : 8167.7/22

Left: 31.959 ± 0.121 χ^2/NDF : 25752.7/47
 Right: 2.834 ± 0.098 χ^2/NDF : 98550.8/59
 In: 14.843 ± 0.110 χ^2/NDF : 53085.7/50
 Out: 13.872 ± 0.105 χ^2/NDF : 106109.6/56
 All: 14.333 ± 0.076 χ^2/NDF : 159235.8/107

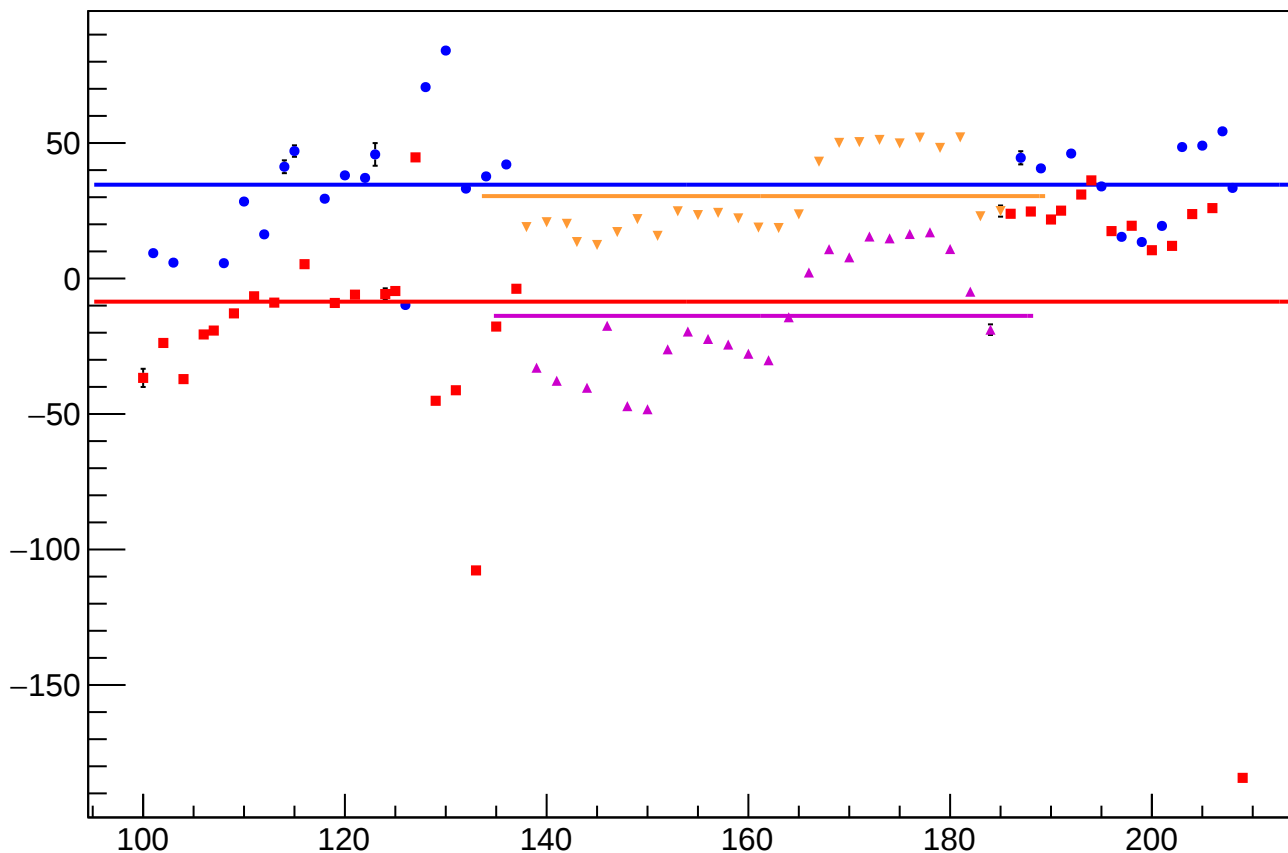
diff_bpm1i02Y_rms vs Slug, Sign Corrected



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: 533.841 $\pm$ 0.095 χ^2 /NDF: 518388.3/31
 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: 535.394 $\pm$ 0.069 χ^2 /NDF: 987993.4/59
 In: 612.282 $\pm$ 0.078 χ^2 /NDF: 2164731.2/50
 Out: 605.582 $\pm$ 0.074 χ^2 /NDF: 2299859.5/56
 All: 608.768 $\pm$ 0.054 χ^2 /NDF: 4468450.0/107

diff_bpm1i04X_mean vs Slug, Sign Corrected



Right In: 34.616 ± 0.224 $\chi^2/\text{NDF}: 8284.2/27$

Left Out: 30.408 ± 0.237 $\chi^2/\text{NDF}: 3808.0/24$

Right Out: -8.543 ± 0.215 $\chi^2/\text{NDF}: 48822.7/31$

Left In: -13.787 ± 0.246 $\chi^2/\text{NDF}: 7979.7/22$

Left: 9.082 ± 0.171 $\chi^2/\text{NDF}: 28511.9/47$

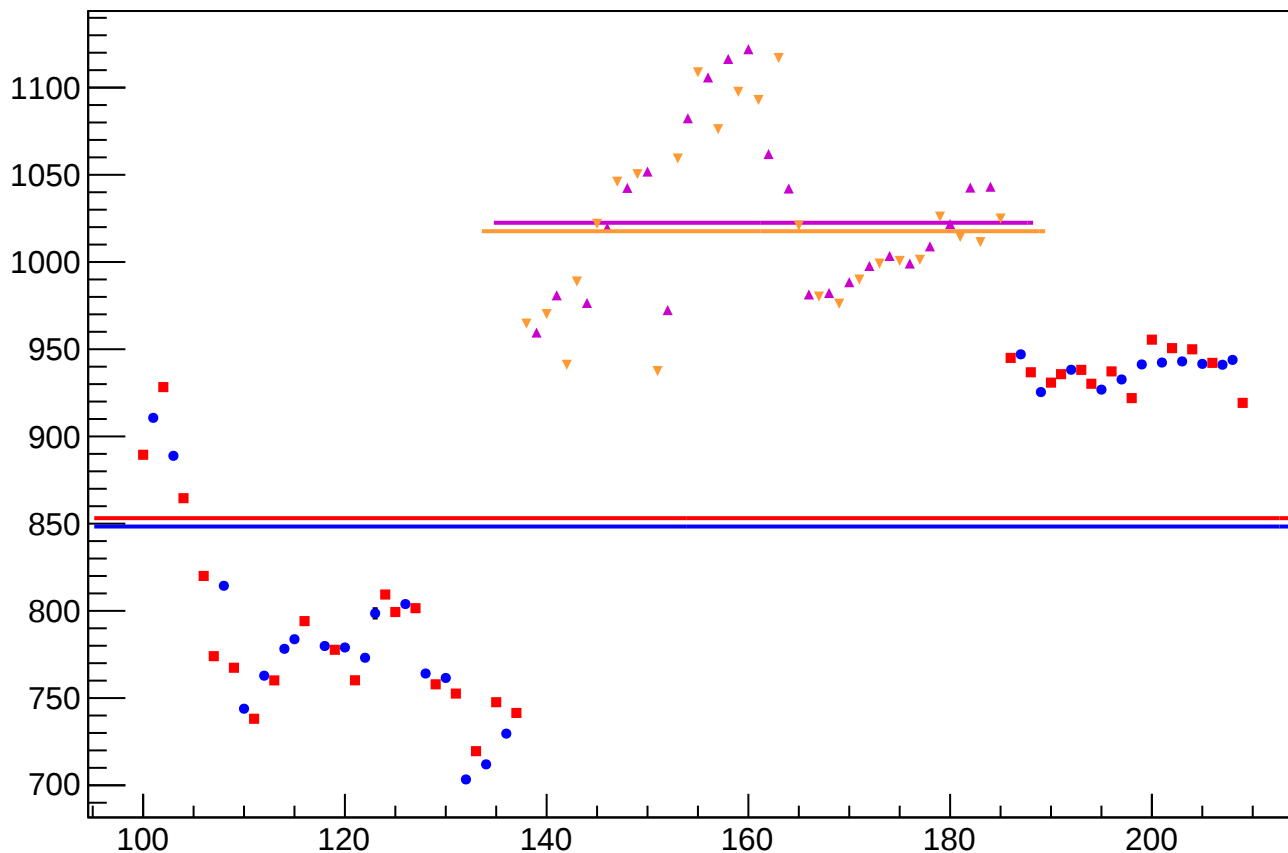
Right: 12.143 ± 0.155 $\chi^2/\text{NDF}: 76409.6/59$

In: 12.641 ± 0.166 $\chi^2/\text{NDF}: 37431.8/50$

Out: 9.015 ± 0.159 $\chi^2/\text{NDF}: 67416.8/56$

All: 10.758 ± 0.115 $\chi^2/\text{NDF}: 105097.6/107$

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: 853.144 $\pm$ 0.152 χ^2 /NDF: 323515.2/31

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

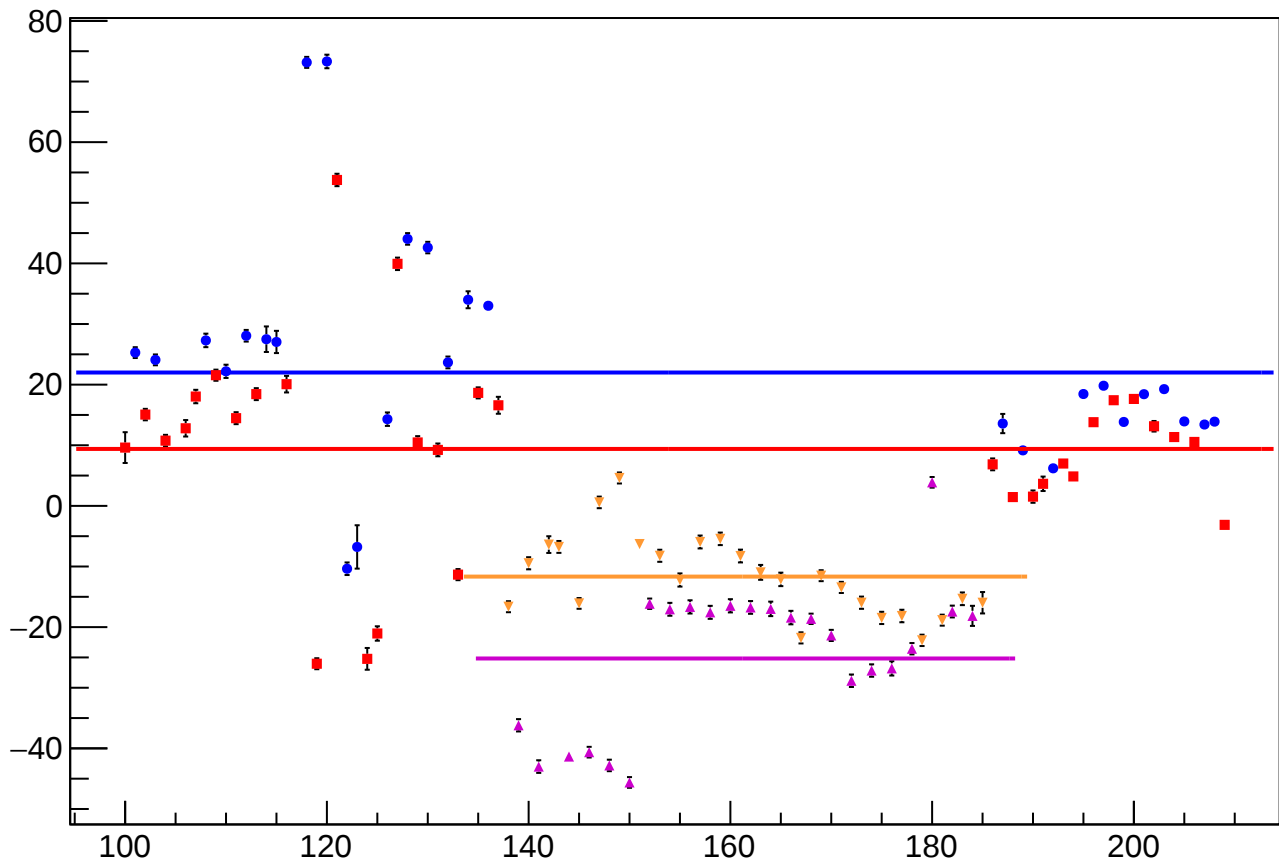
Right: 850.846 $\pm$ 0.110 χ^2 /NDF: 647525.4/59

In: 927.419 $\pm$ 0.117 χ^2 /NDF:941272.2/50

Out: 927.298 $\pm$ 0.113 χ^2 /NDF:934620.7/56

All: 927.356 $\pm$ 0.081 χ^2 /NDF: 1875893.4/107

diff_bpm1i04Y_mean vs Slug, Sign Corrected



Right In: 21.999 $\pm$ 0.162 χ^2/NDF : 9420.9/27

Left Out: -11.664 $\pm$ 0.200 χ^2/NDF : 1147.4/24

Right Out: 9.394 $\pm$ 0.155 χ^2/NDF : 7655.5/31

Left In: -25.174 $\pm$ 0.207 χ^2/NDF : 3747.1/22

Left: -18.184 $\pm$ 0.144 χ^2/NDF : 7090.4/47

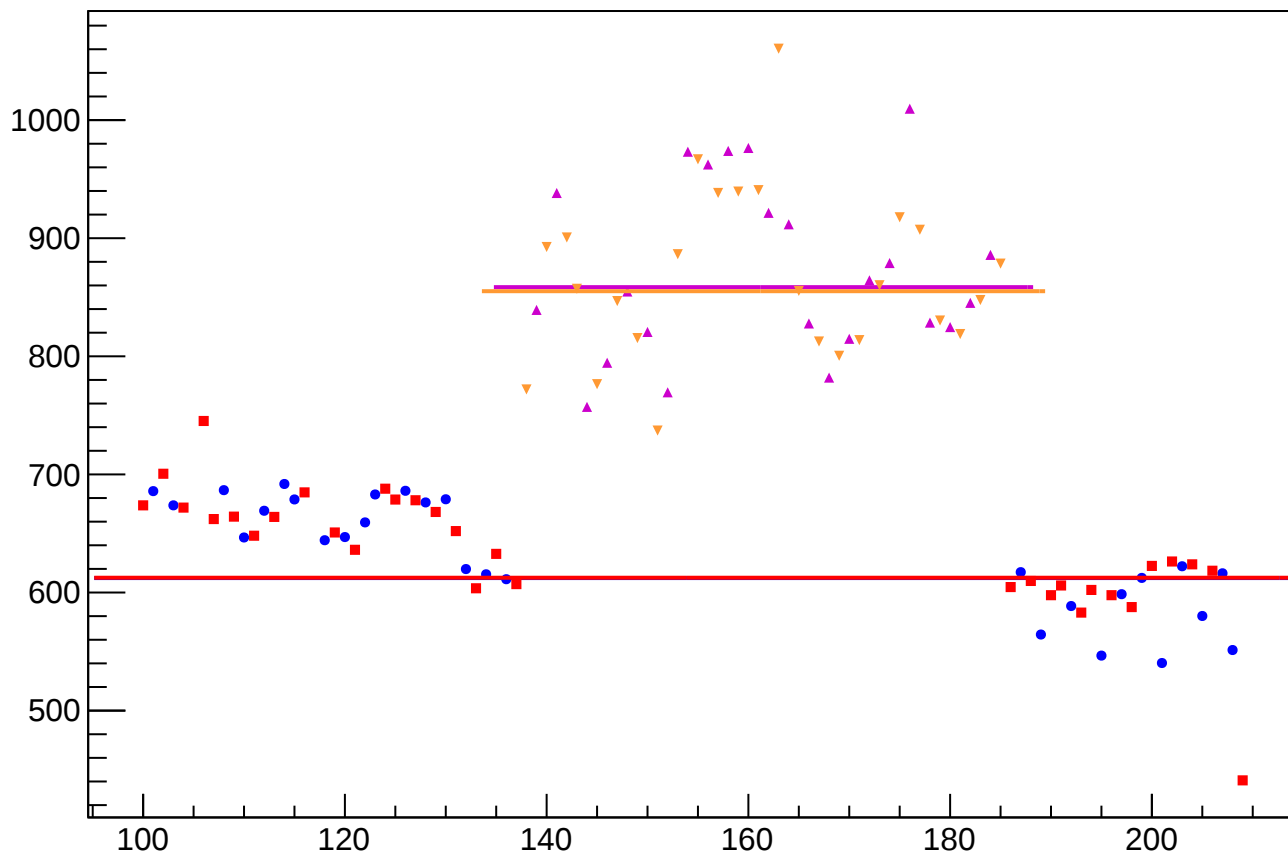
Right: 15.408 $\pm$ 0.112 χ^2/NDF : 20250.1/59

In: 4.149 $\pm$ 0.128 χ^2/NDF : 45333.1/50

Out: 1.535 $\pm$ 0.122 χ^2/NDF : 15732.1/56

All: 2.788 $\pm$ 0.088 χ^2/NDF : 61283.8/107

diff_bpm1i04Y_rms vs Slug, Sign Corrected



Right In: 612.243+/-0.114 χ^2/NDF : 163829.9/27

Left Out: 855.131+/-0.142 χ^2/NDF : 233746.7/24

Right Out: 612.520+/-0.109 χ^2/NDF : 330407.9/31

Left In: 858.563+/-0.147 χ^2/NDF : 239019.8/22

Left: 856.788+/-0.102 χ^2/NDF : 473049.9/47

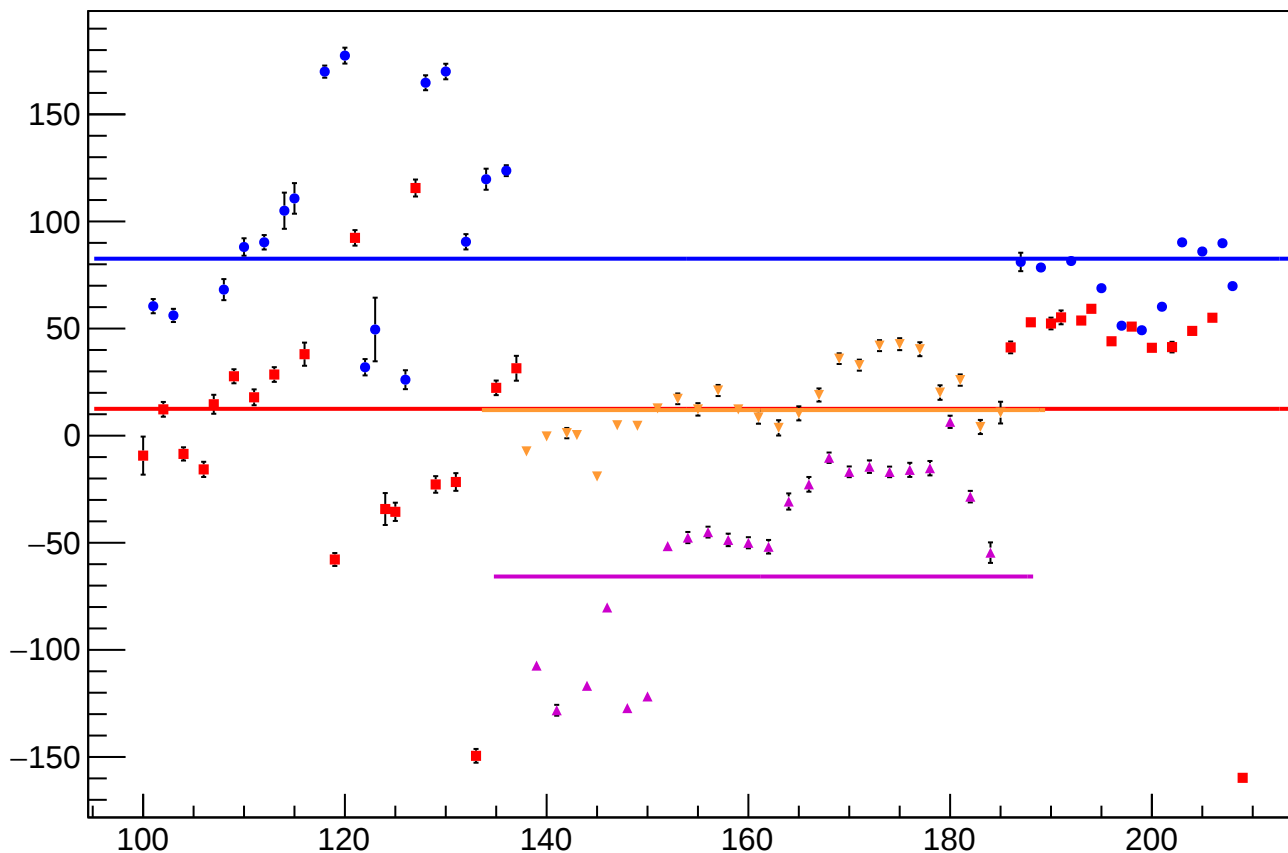
Right: 612.388+/-0.079 χ^2/NDF : 494240.9/59

In: 705.451+/-0.090 χ^2/NDF : 2156858.7/50

Out: 703.064+/-0.087 χ^2/NDF : 2403603.3/56

All: 704.208+/-0.062 χ^2/NDF : 4560826.8/107

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: 12.526 ± 0.464 $\chi^2/\text{NDF}: 24337.6/31$

Left In: -65.752 ± 0.518 $\chi^2/\text{NDF}: 7335.8/22$

Left: -25.968 ± 0.362 $\chi^2/\text{NDF}: 19845.5/47$

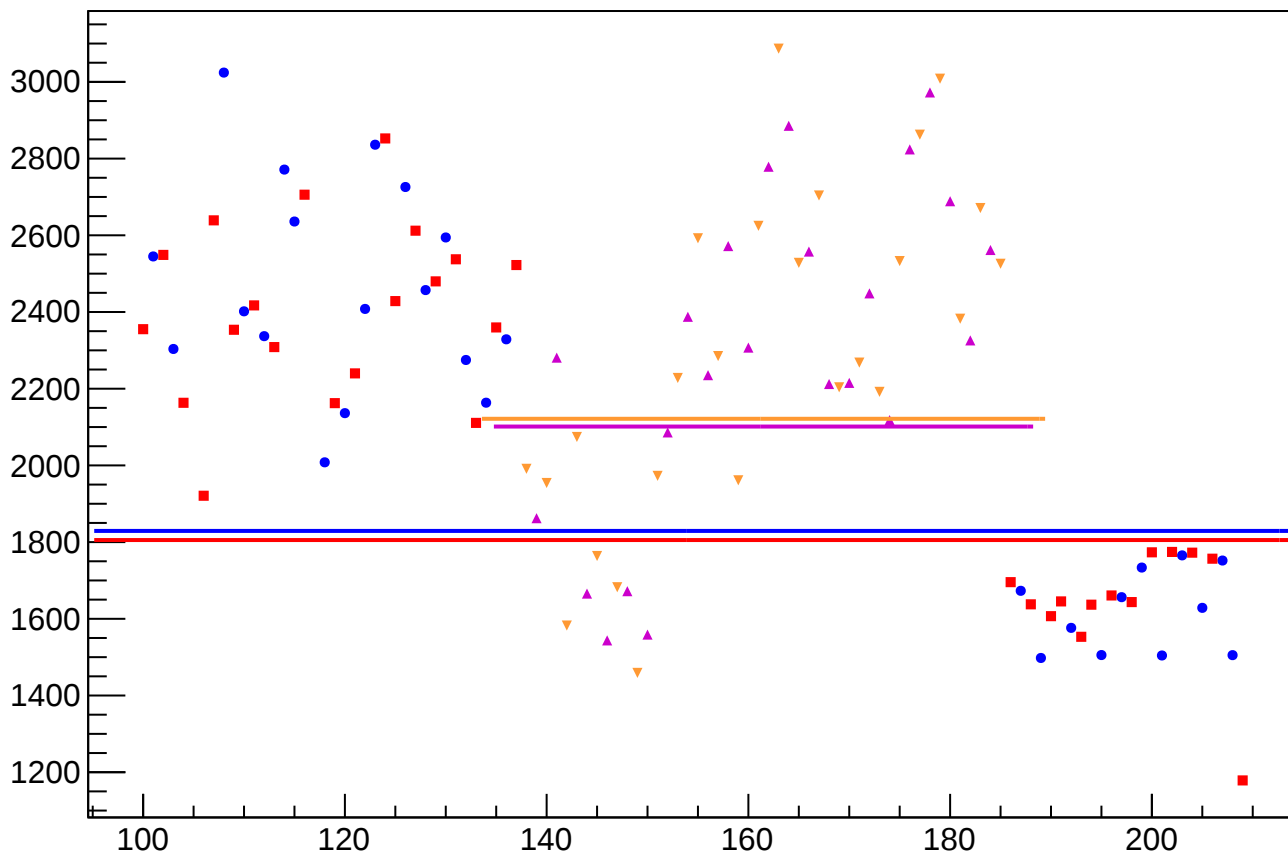
Right: 45.451 ± 0.338 $\chi^2/\text{NDF}: 39493.1/59$

In: 12.032 ± 0.357 $\chi^2/\text{NDF}: 54842.9/50$

Out: 12.257 ± 0.342 $\chi^2/\text{NDF}: 25315.0/56$

All: 12.149 ± 0.247 $\chi^2/\text{NDF}: 80158.1/107$

diff_bpm1i06X_rms vs Slug, Sign Corrected



Right In: 1829.172+/-0.349

χ^2/NDF : 1167044.9/27

Left: 2111.691+/-0.256 χ^2/NDF : 2749931.8/47

Right: 1816.557+/-0.239 χ^2/NDF : 2557304.2/59

Left Out: 2121.567+/-0.357

χ^2/NDF : 1387847.6/24

In: 1958.642+/-0.252 χ^2/NDF : 2817358.6/50

Right Out: 1805.381+/-0.328

χ^2/NDF : 1387791.2/31

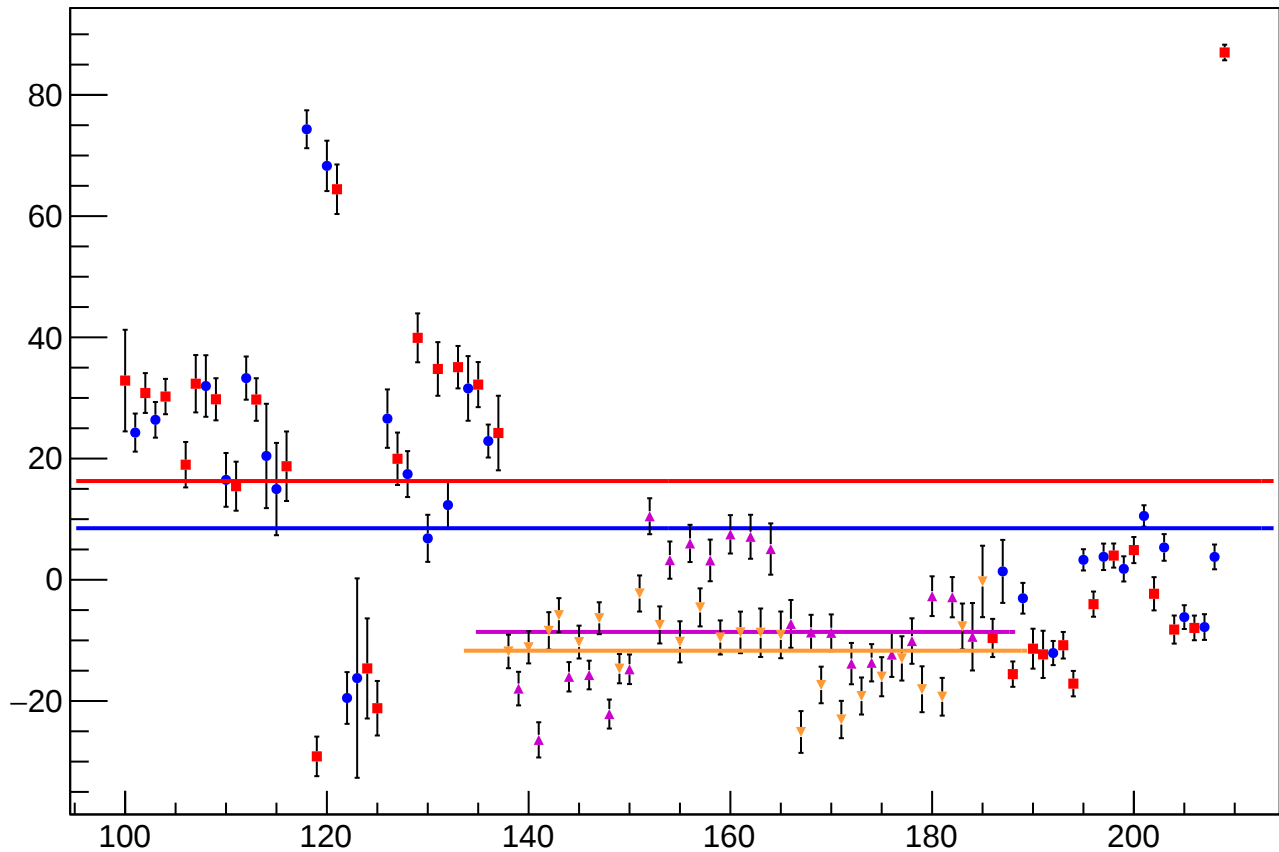
Out: 1950.077+/-0.242 χ^2/NDF : 3200337.1/56

Left In: 2101.325+/-0.366

χ^2/NDF : 1360518.3/22

All: 1954.173+/-0.175 χ^2/NDF : 6018296.2/10

diff_bpm1i06Y_mean vs Slug, Sign Corrected



Right In: 8.508 ± 0.534 $\chi^2/\text{NDF}: 1177.9/27$

Left Out: -11.700 ± 0.625 $\chi^2/\text{NDF}: 85.0/24$

Right Out: 16.295 ± 0.503 $\chi^2/\text{NDF}: 4907.6/31$

Left In: -8.606 ± 0.642 $\chi^2/\text{NDF}: 264.2/22$

Left: -10.193 ± 0.448 $\chi^2/\text{NDF}: 361.1/47$

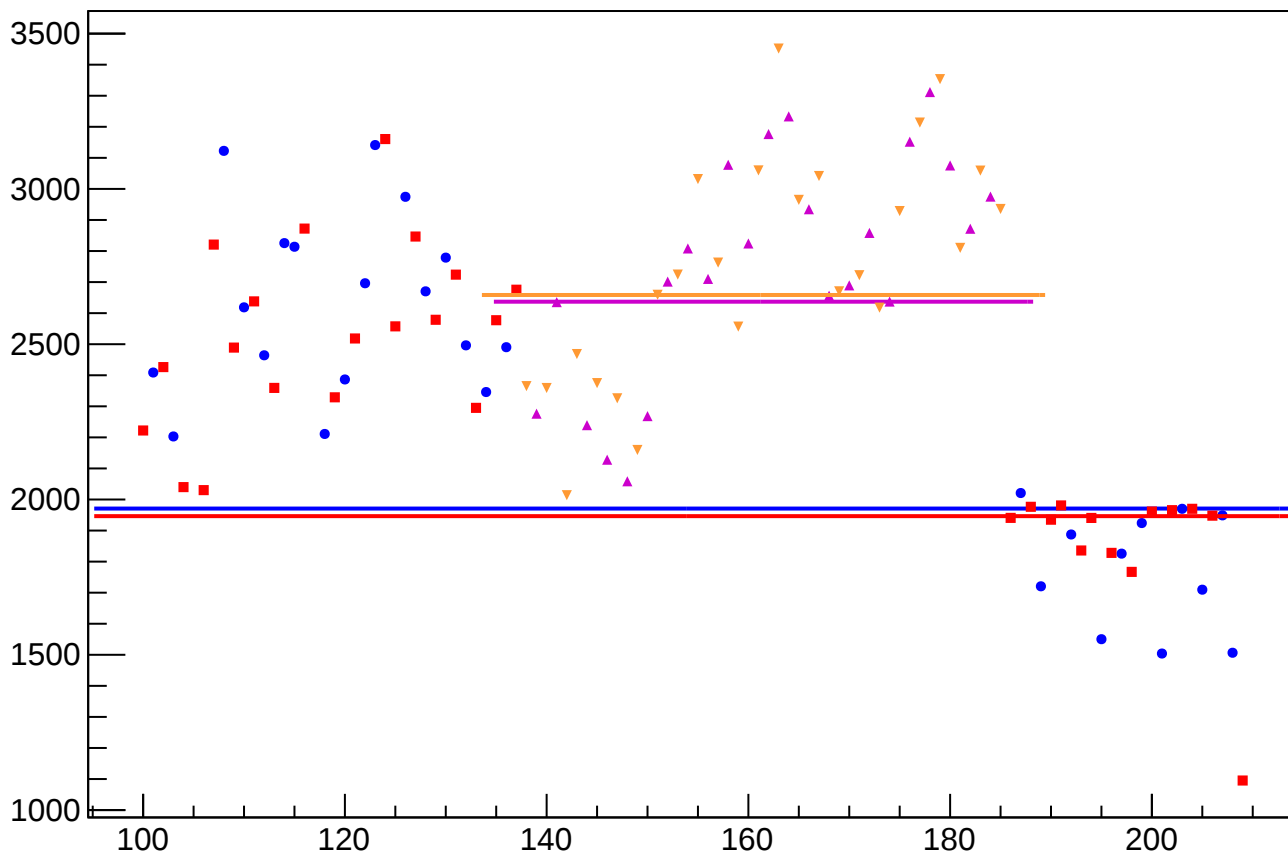
Right: 12.629 ± 0.366 $\chi^2/\text{NDF}: 6198.0/59$

In: 1.511 ± 0.410 $\chi^2/\text{NDF}: 1862.3/50$

Out: 5.287 ± 0.392 $\chi^2/\text{NDF}: 6208.3/56$

All: 3.485 ± 0.284 $\chi^2/\text{NDF}: 8114.8/107$

diff_bpm1i06Y_rms vs Slug, Sign Corrected



Right In: 1970.839+/-0.377

χ^2/NDF : 1165720.8/27

Left Out: 2658.486+/-0.442

χ^2/NDF : 618133.8/24

Right Out: 1946.409+/-0.356

χ^2/NDF : 1654369.0/31

Left In: 2636.885+/-0.454

χ^2/NDF : 652894.5/22

Left: 2647.967+/-0.317

χ^2/NDF : 1272190.1/47

Right: 1957.909+/-0.259

χ^2/NDF : 2822306.5/59

In: 2243.157+/-0.290

χ^2/NDF : 3091413.5/50

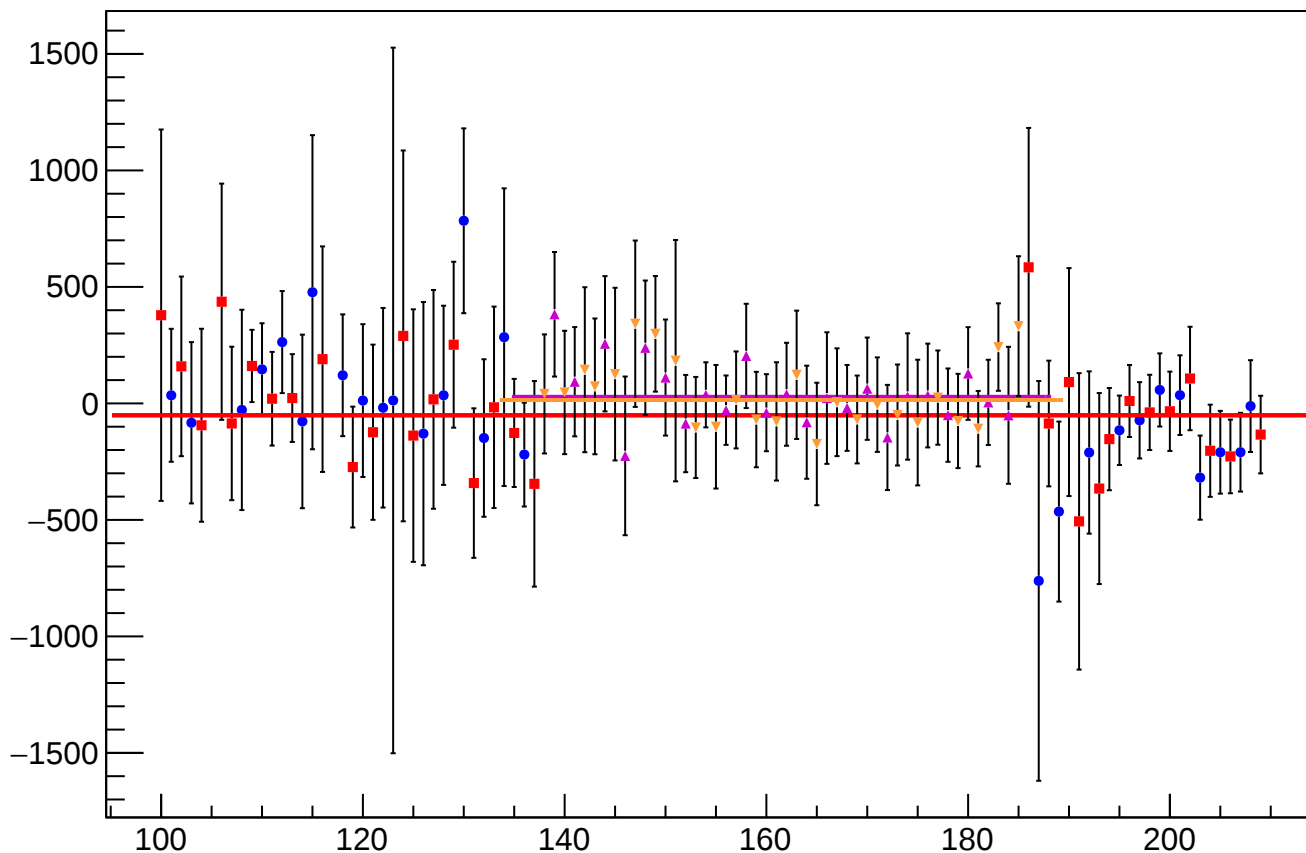
Out: 2226.394+/-0.277

χ^2/NDF : 3845606.4/56

All: 2234.394+/-0.201

χ^2/NDF : 6938763.7/10

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: -50.341 ± 45.144 $\chi^2/\text{NDF}: 12.3/31$

Left In: 28.310 ± 44.638 $\chi^2/\text{NDF}: 6.3/22$

Left: 21.847 ± 32.538 $\chi^2/\text{NDF}: 14.1/47$

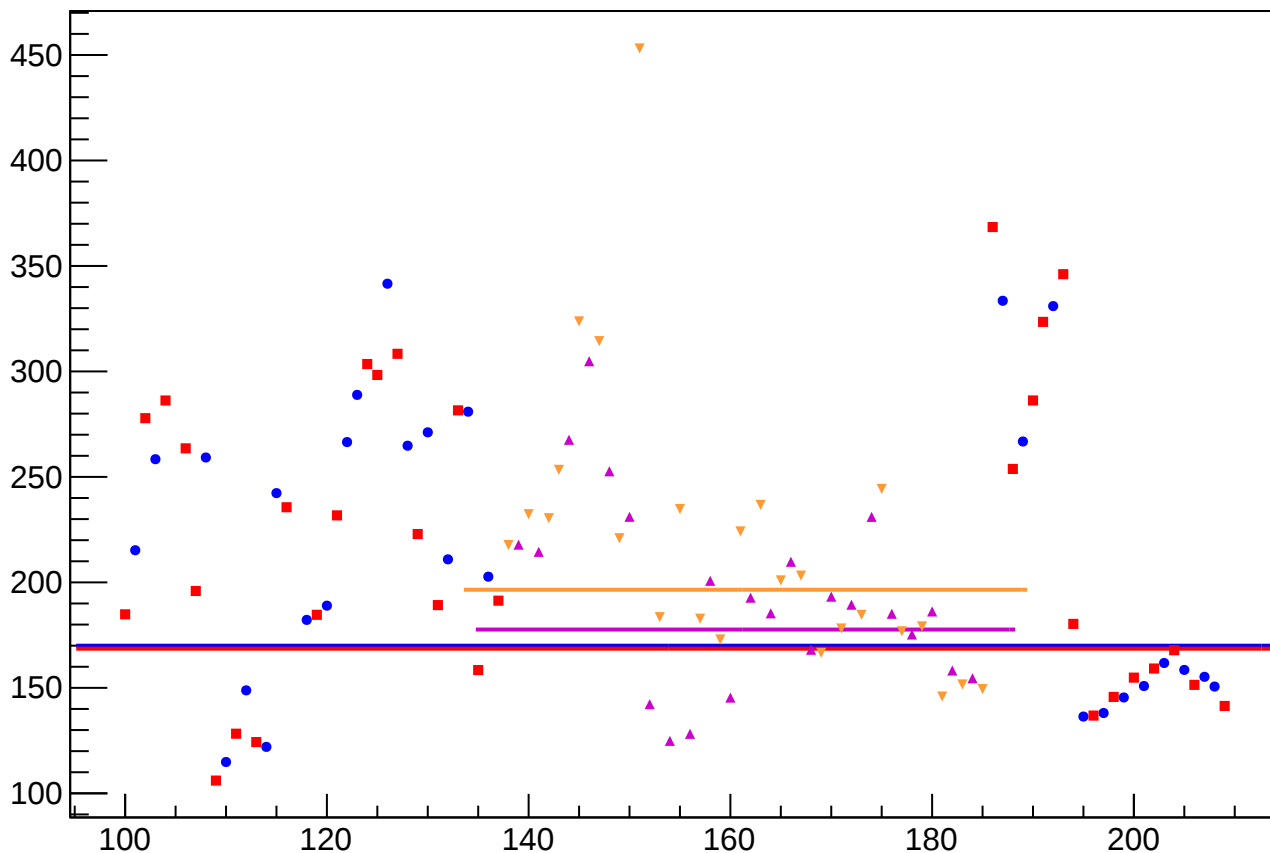
Right: -50.832 ± 32.503 $\chi^2/\text{NDF}: 28.9/59$

In: -9.613 ± 32.313 $\chi^2/\text{NDF}: 24.4/50$

Out: -19.578 ± 32.732 $\chi^2/\text{NDF}: 21.1/56$

All: -14.531 ± 22.996 $\chi^2/\text{NDF}: 45.5/107$

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 169.983 $\pm$ 0.033 χ^2 /NDF: 2114957.1/27

Left Out: 196.514 $\pm$ 0.034 χ^2 /NDF:1789504.4/24

Right Out: 168.574 $\pm$ 0.032 χ^2 /NDF: 2831056.8/31

Left In: 177.643 $\pm$ 0.032 χ^2 /NDF:1630664.5/22

Left: 186.488 $\pm$ 0.023 χ^2 /NDF: 3587689.7/47

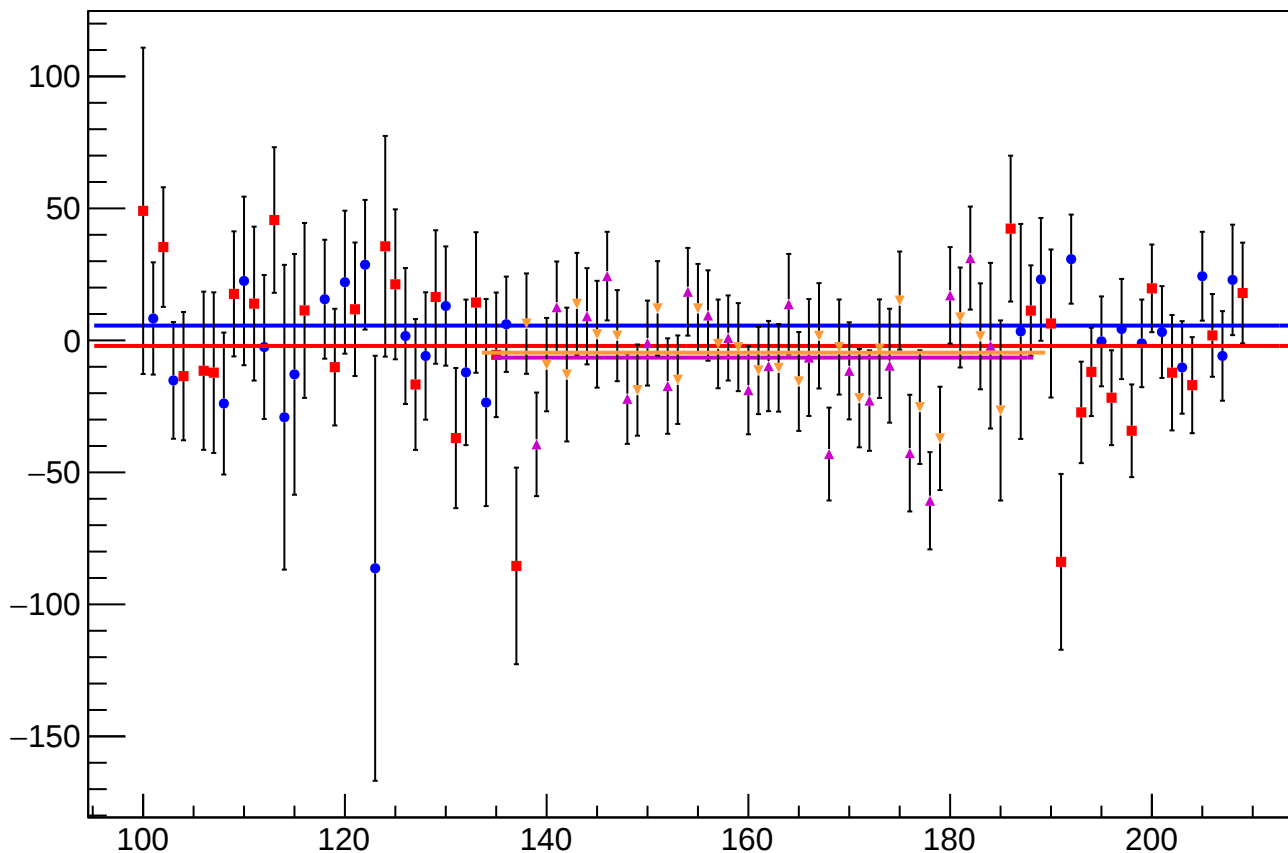
Right: 169.252 $\pm$ 0.023 χ^2 /NDF: 4946952.2/59

In: 173.997 $\pm$ 0.023 χ^2 /NDF:3773659.5/50

Out: 181.825 $\pm$ 0.023 χ^2 /NDF:4983923.6/56

All: 177.861 $\pm$ 0.016 χ^2 /NDF: 8815523.8/107

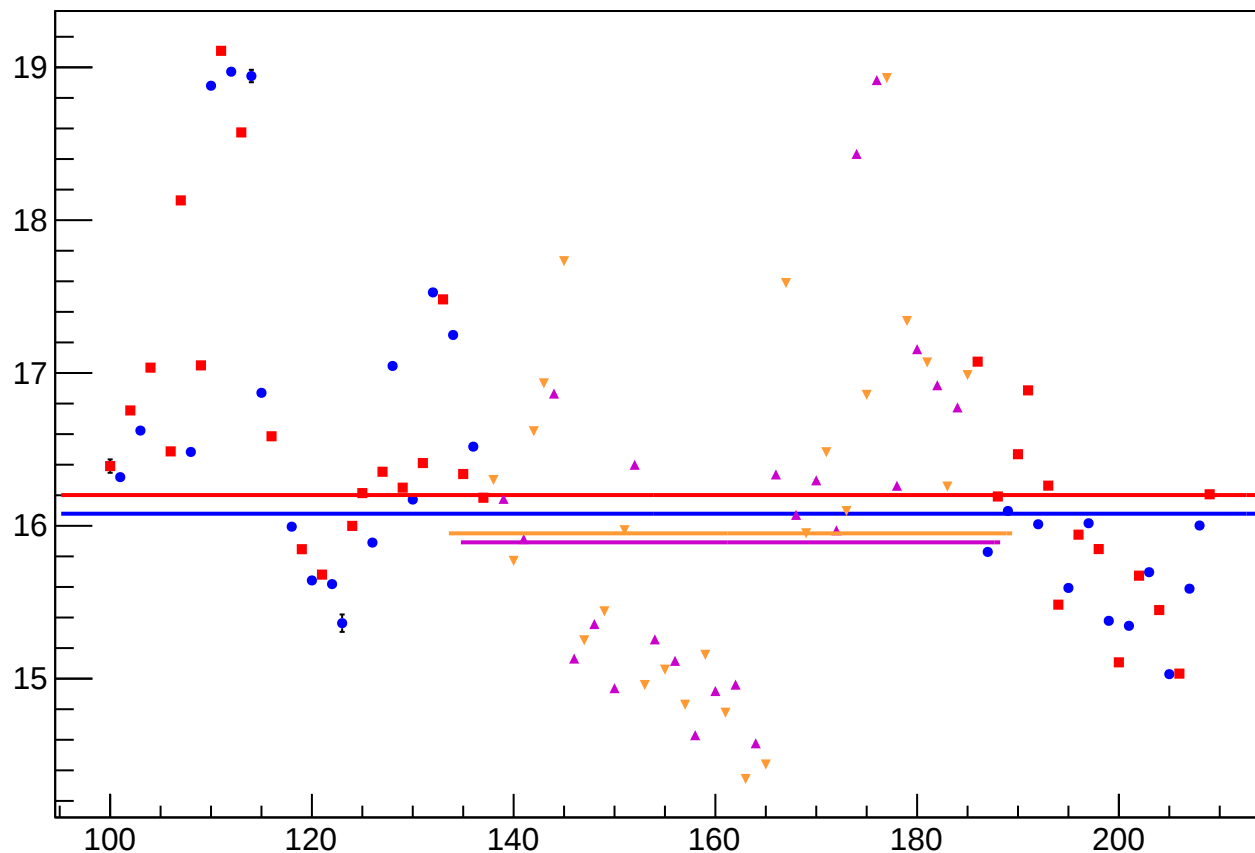
asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 5.606 ± 4.234 $\chi^2/\text{NDF}: 13.4/27$
 Left Out: -4.646 ± 3.728 $\chi^2/\text{NDF}: 12.1/24$
 Right Out: -2.103 ± 4.072 $\chi^2/\text{NDF}: 37.6/31$
 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: 1.601 ± 2.935 $\chi^2/\text{NDF}: 52.7/59$
 In: -1.070 ± 2.839 $\chi^2/\text{NDF}: 54.3/50$
 Out: -3.486 ± 2.750 $\chi^2/\text{NDF}: 49.9/56$
 All: -2.317 ± 1.975 $\chi^2/\text{NDF}: 104.6/107$

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 : 87945.1/31

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

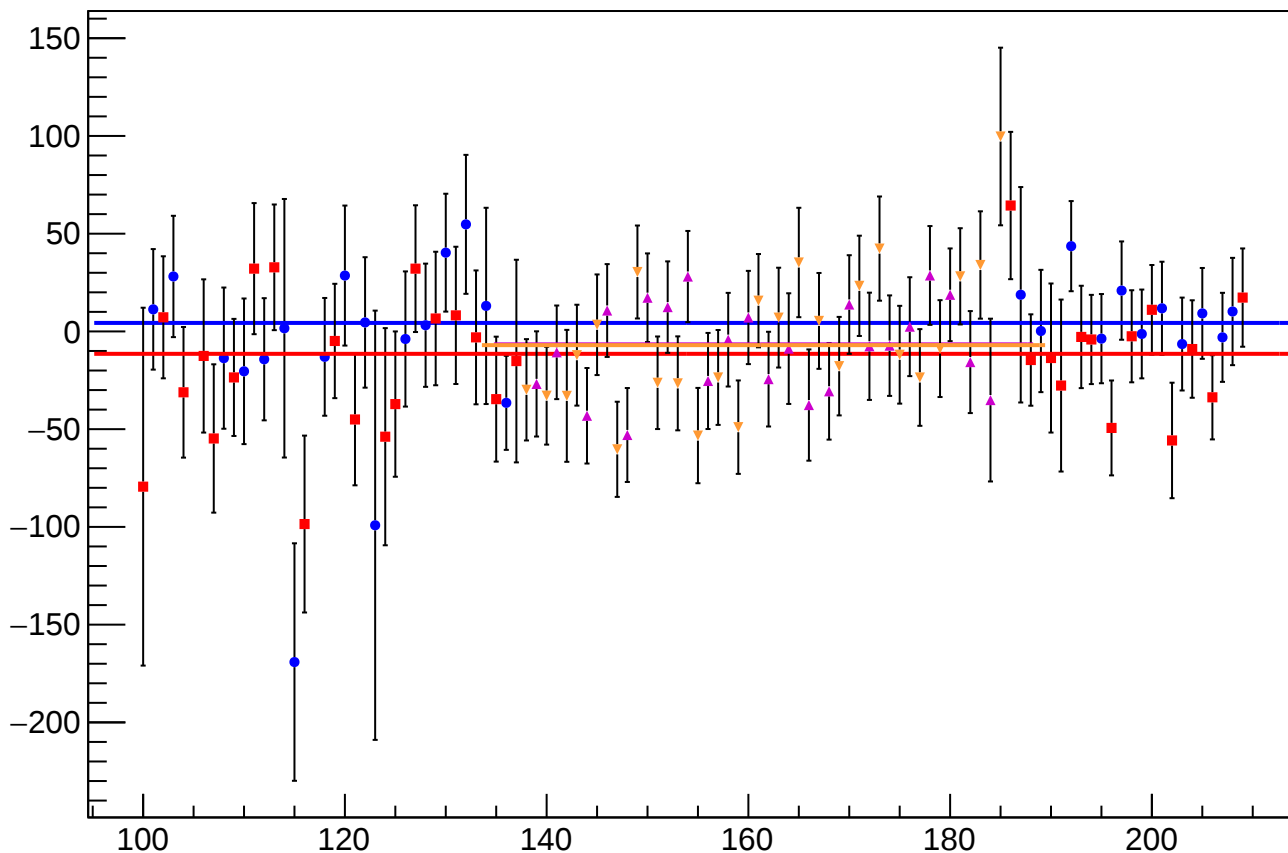
Right: 16.143 $\pm$ 0.002 χ^2/NDF : 166675.5/59

In: 15.976 $\pm$ 0.002 χ^2/NDF : 227114.9/50

Out: 16.065 $\pm$ 0.002 χ^2/NDF : 265523.7/56

All: 16.022 $\pm$ 0.001 χ^2/NDF : 493649.2/107

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: -11.462 ± 5.441 $\chi^2/\text{NDF}: 27.7/31$

Left In: -6.611 ± 5.251 $\chi^2/\text{NDF}: 19.1/22$

Left: -6.820 ± 3.666 $\chi^2/\text{NDF}: 56.6/47$

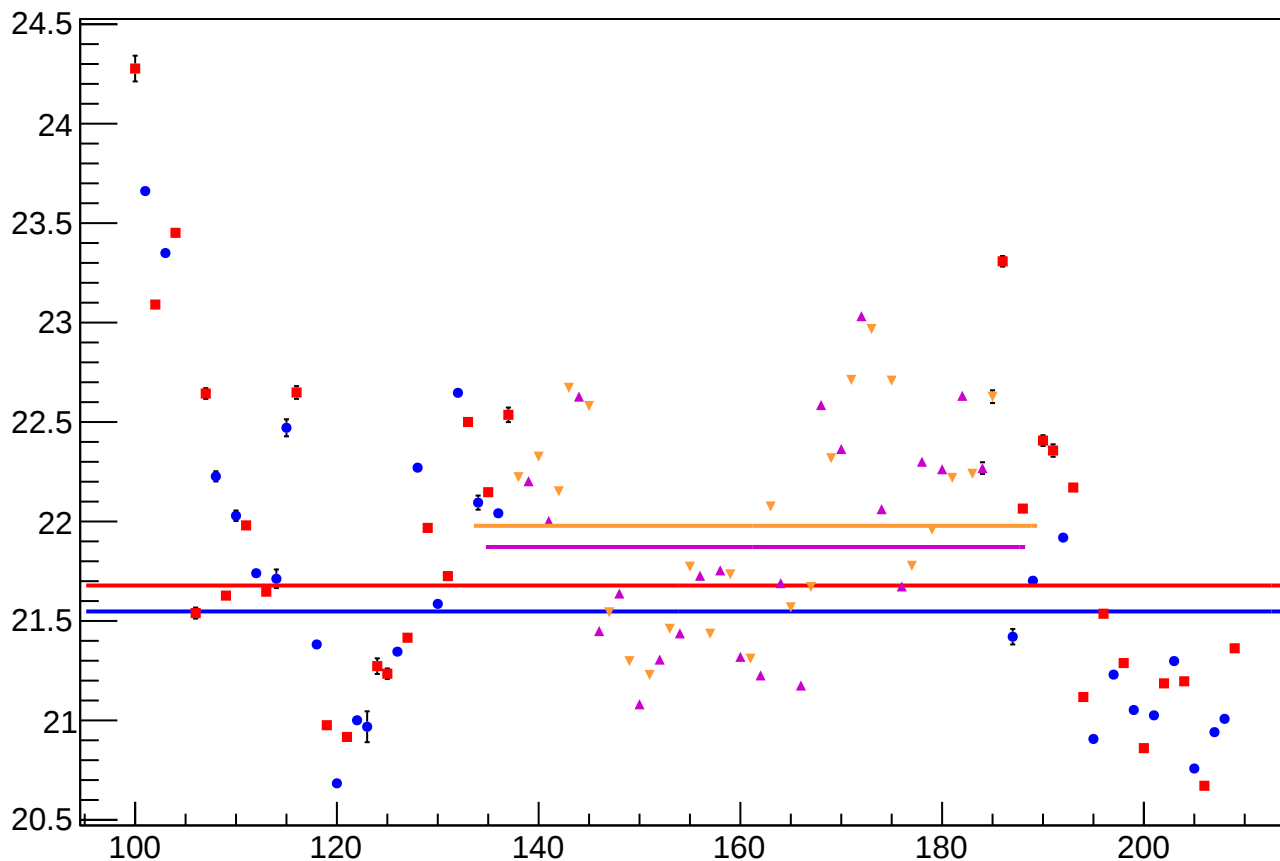
Right: -3.877 ± 3.925 $\chi^2/\text{NDF}: 53.8/59$

In: -1.546 ± 3.852 $\chi^2/\text{NDF}: 43.2/50$

Out: -9.105 ± 3.729 $\chi^2/\text{NDF}: 65.5/56$

All: -5.448 ± 2.679 $\chi^2/\text{NDF}: 110.7/107$

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: 21.678 $\pm$ 0.004 χ^2 /NDF: 35279.3/31

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

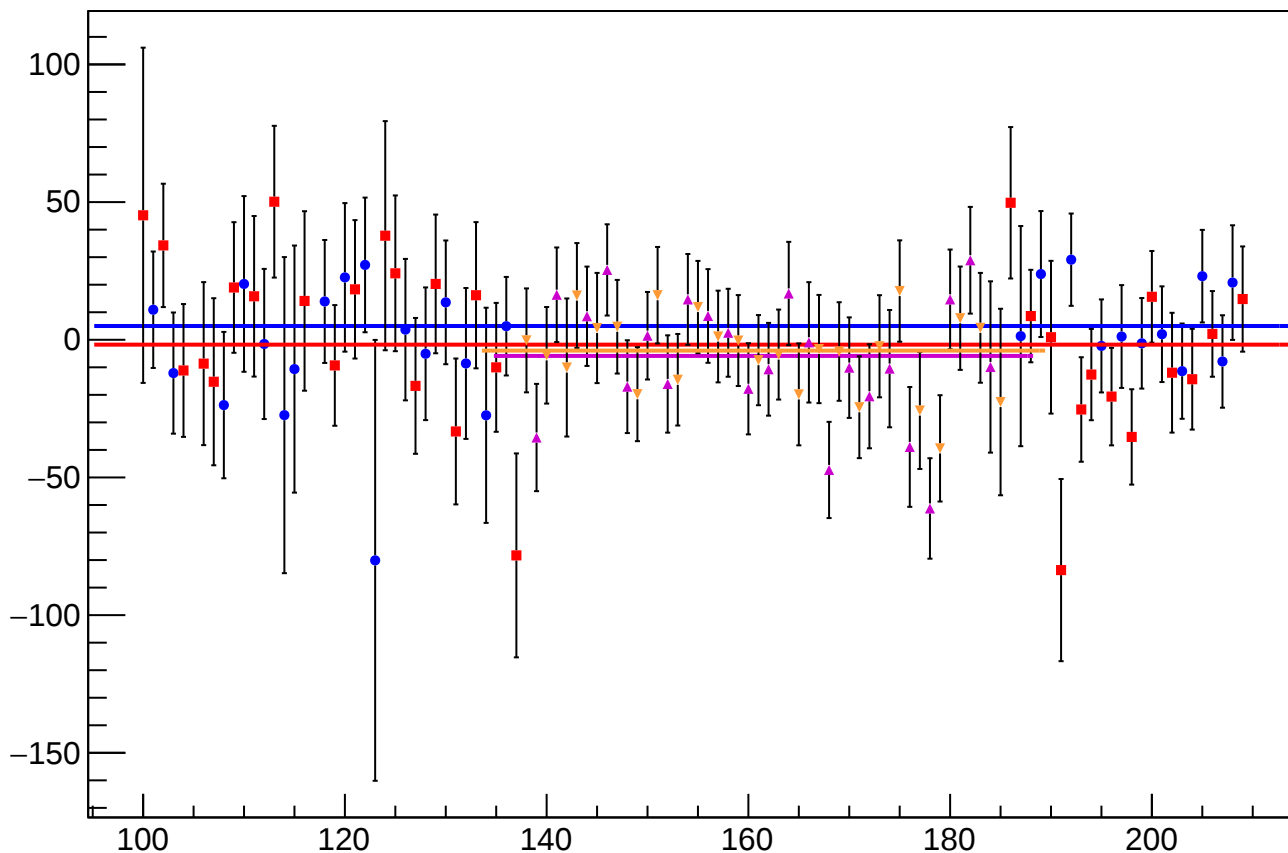
Right: 21.616 $\pm$ 0.003 χ^2 /NDF: 68606.5/59

In: 21.722 $\pm$ 0.003 χ^2 /NDF:56819.7/50

Out: 21.837 $\pm$ 0.003 χ^2 /NDF:57939.6/56

All: 21.782 $\pm$ 0.002 χ^2 /NDF: 115683.5/107

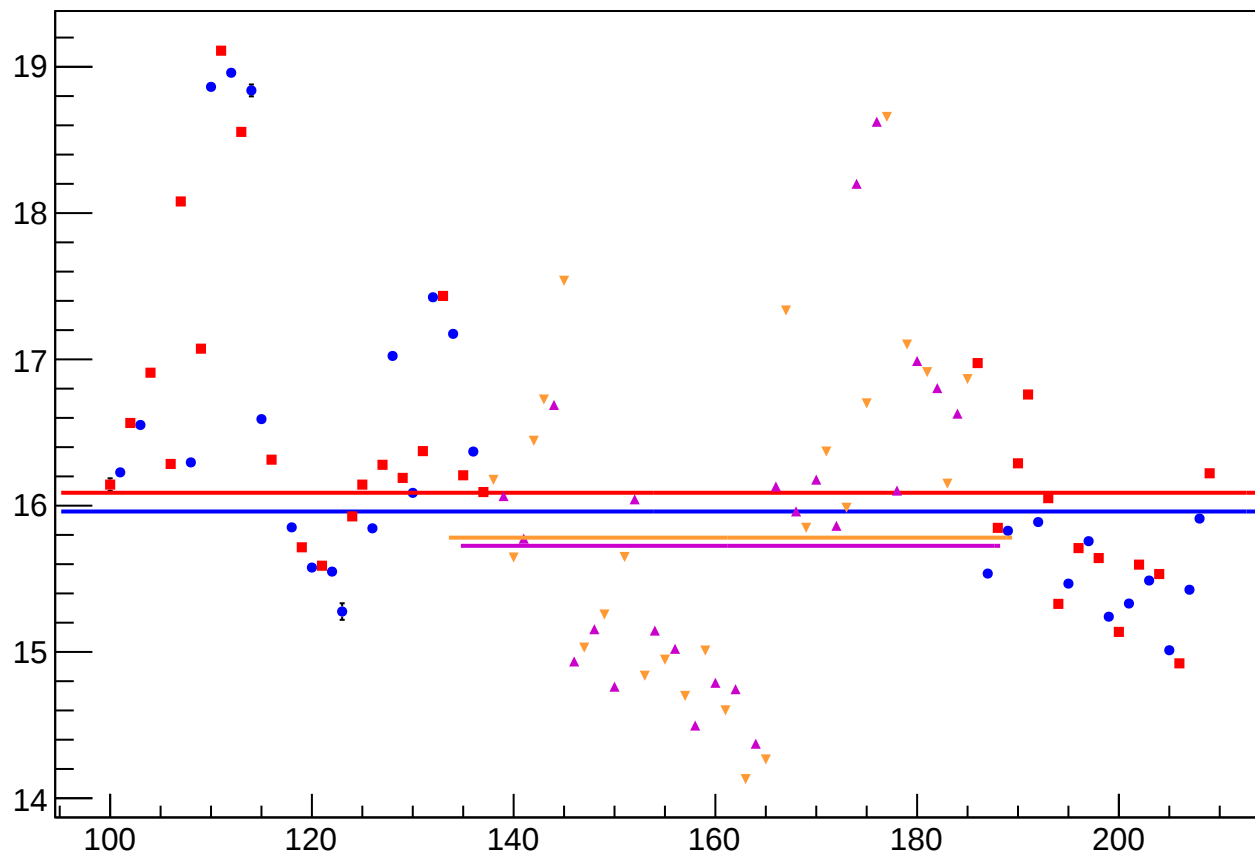
asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



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: -1.769 ± 4.044 $\chi^2/\text{NDF}: 37.9/31$
 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: 1.486 ± 2.914 $\chi^2/\text{NDF}: 52.0/59$
 In: -0.994 ± 2.813 $\chi^2/\text{NDF}: 52.6/50$
 Out: -2.947 ± 2.725 $\chi^2/\text{NDF}: 52.0/56$
 All: -2.002 ± 1.957 $\chi^2/\text{NDF}: 104.9/107$

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: 16.088 $\pm$ 0.003 χ^2/NDF : 90573.4/31

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

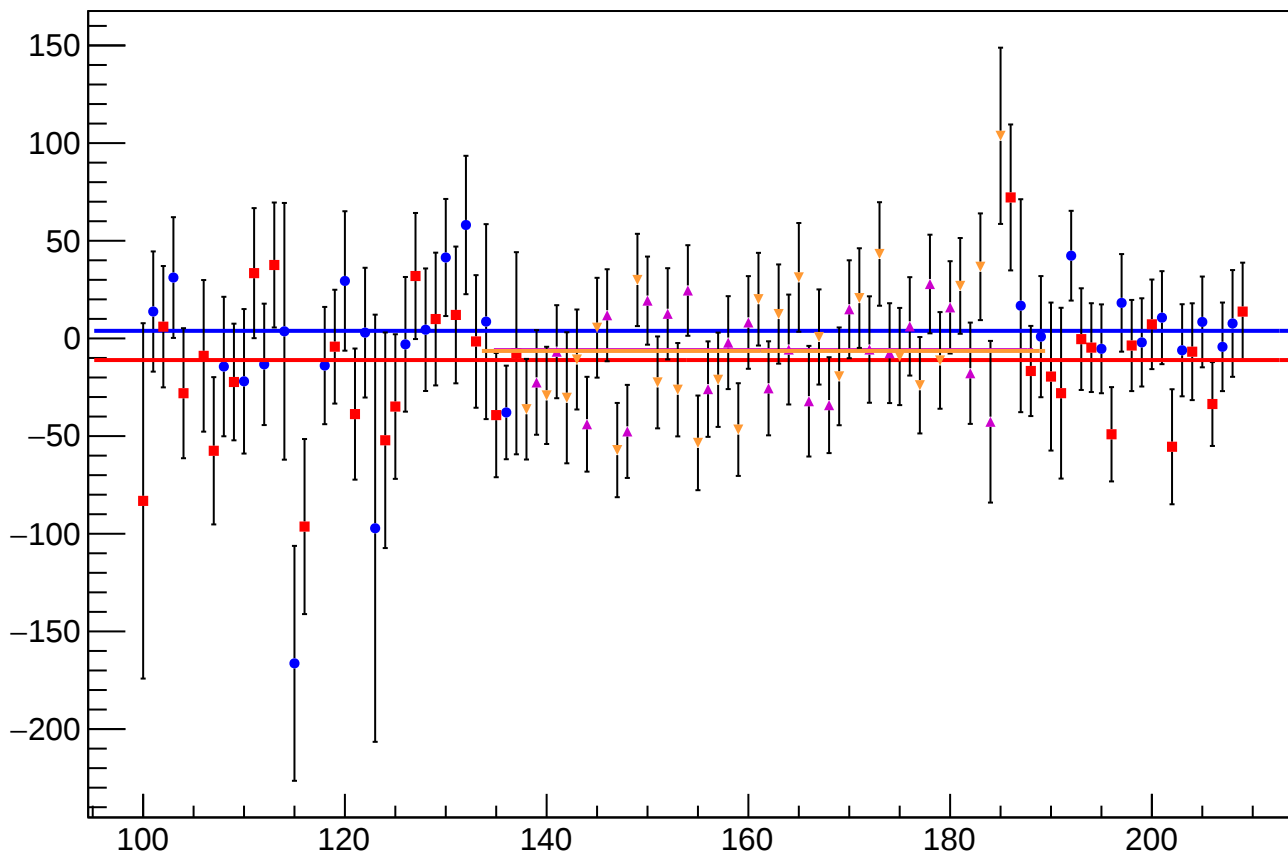
Right: 16.027 $\pm$ 0.002 χ^2/NDF : 172280.3/59

In: 15.831 $\pm$ 0.002 χ^2/NDF : 230013.0/50

Out: 15.921 $\pm$ 0.002 χ^2/NDF : 269755.0/56

All: 15.877 $\pm$ 0.001 χ^2/NDF : 500826.1/107

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: -11.070 ± 5.412 $\chi^2/\text{NDF}: 28.8/31$

Left In: -5.978 ± 5.222 $\chi^2/\text{NDF}: 18.5/22$

Left: -6.196 ± 3.646 $\chi^2/\text{NDF}: 55.9/47$

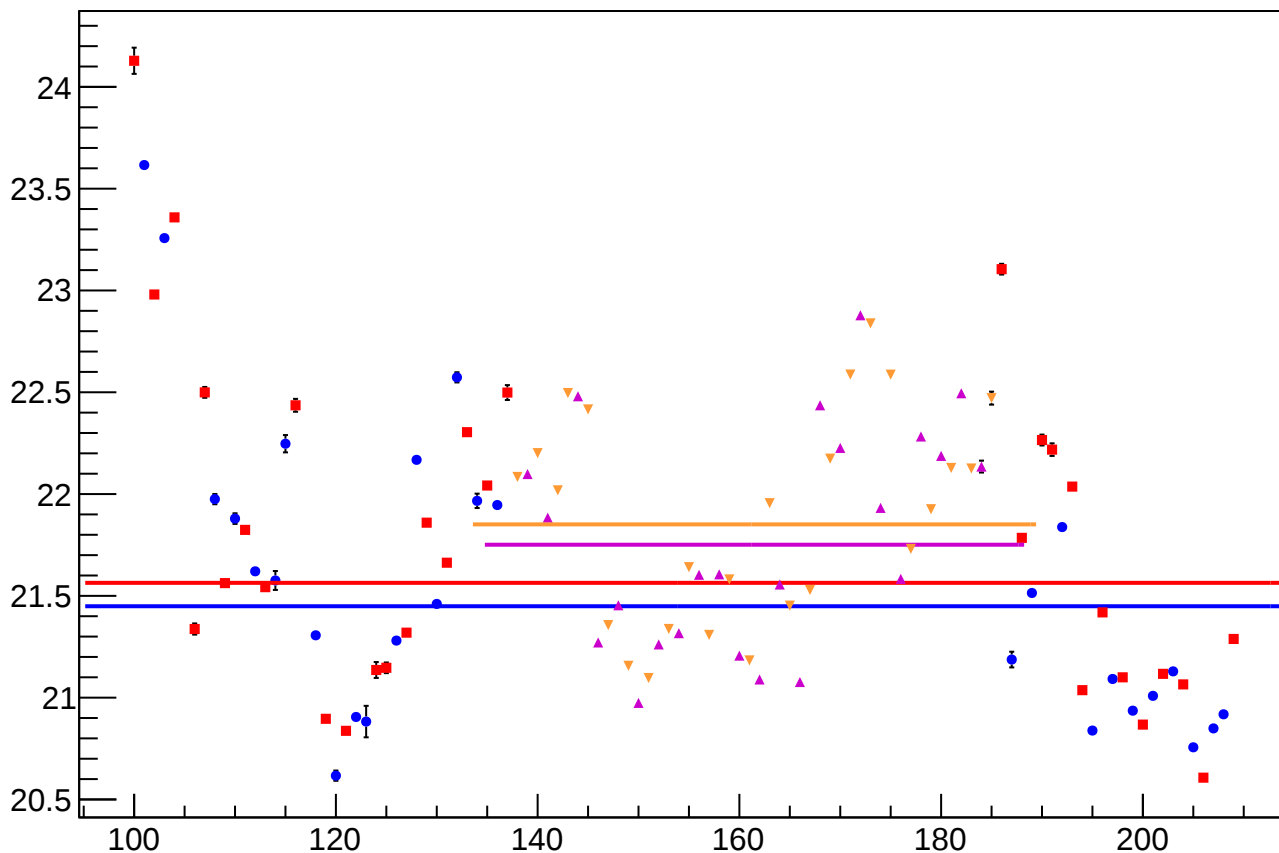
Right: -3.902 ± 3.905 $\chi^2/\text{NDF}: 55.0/59$

In: -1.425 ± 3.832 $\chi^2/\text{NDF}: 42.7/50$

Out: -8.595 ± 3.708 $\chi^2/\text{NDF}: 66.6/56$

All: -5.128 ± 2.665 $\chi^2/\text{NDF}: 111.1/107$

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: 21.564 $\pm$ 0.004 χ^2/NDF : 33087.7/31

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

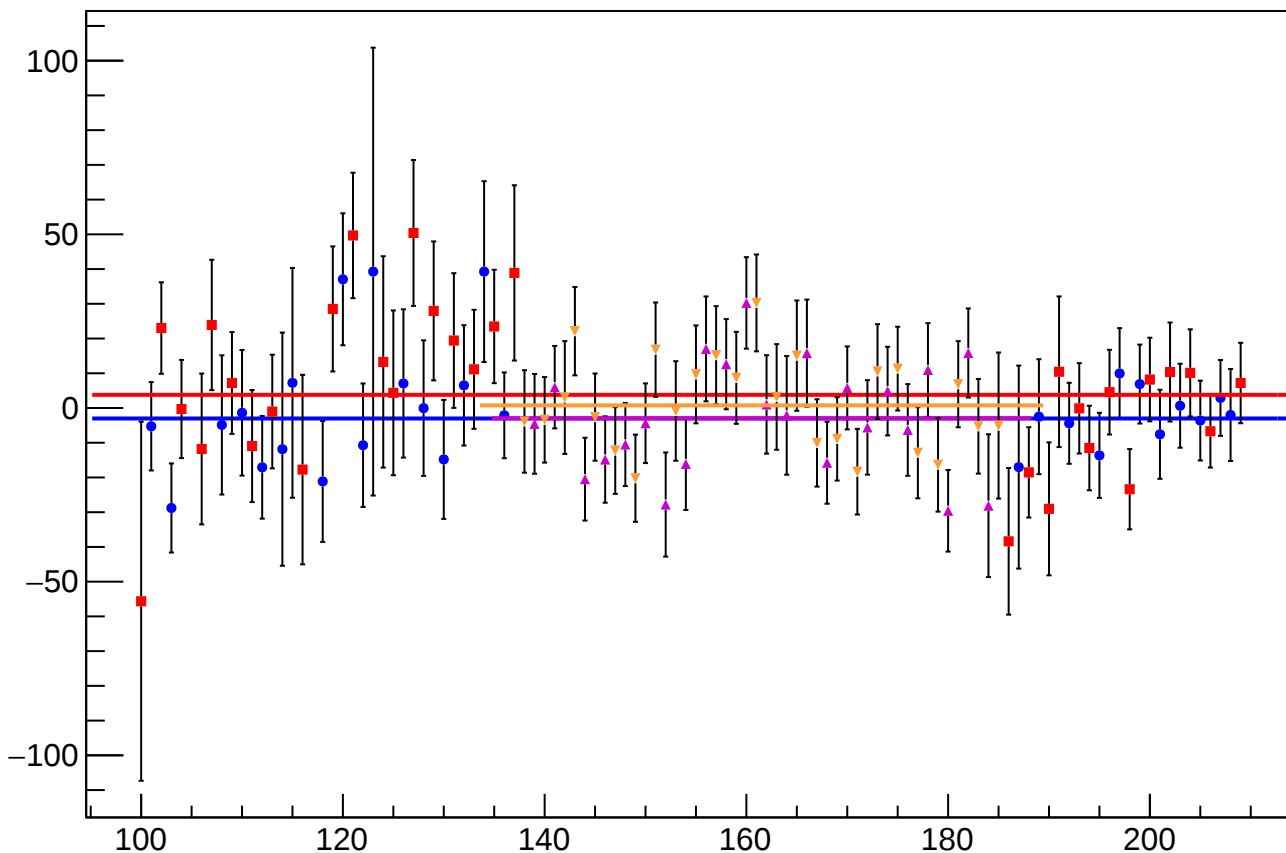
Right: 21.509 $\pm$ 0.003 χ^2/NDF : 65813.9/59

In: 21.612 $\pm$ 0.003 χ^2/NDF : 55900.4/50

Out: 21.716 $\pm$ 0.003 χ^2/NDF : 55706.8/56

All: 21.666 $\pm$ 0.002 χ^2/NDF : 112376.1/107

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: 3.789 ± 2.778 $\chi^2/\text{NDF}: 44.7/31$

Left In: -2.944 ± 2.757 $\chi^2/\text{NDF}: 30.9/22$

Left: -1.053 ± 1.929 $\chi^2/\text{NDF}: 55.7/47$

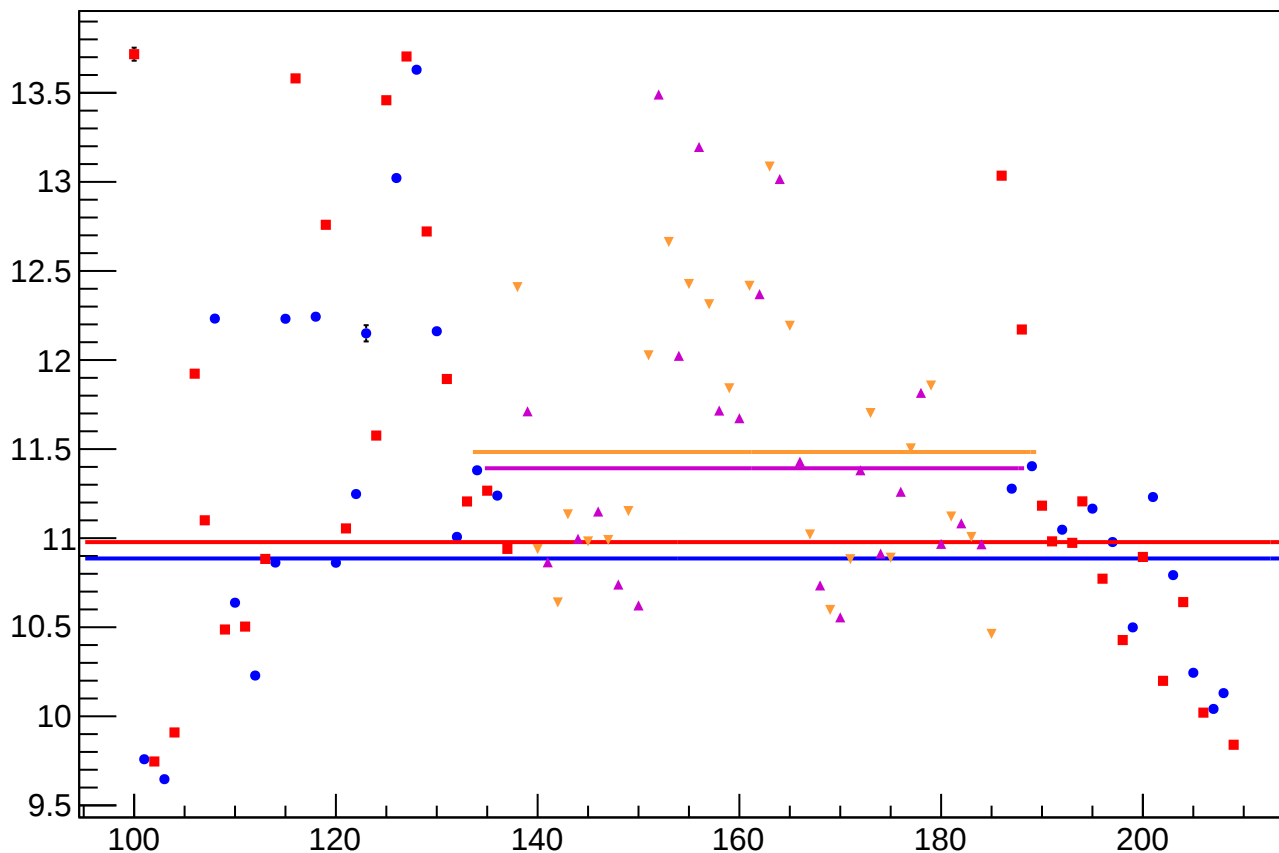
Right: 0.511 ± 2.001 $\chi^2/\text{NDF}: 65.8/59$

In: -2.980 ± 1.993 $\chi^2/\text{NDF}: 49.2/50$

Out: 2.230 ± 1.936 $\chi^2/\text{NDF}: 69.1/56$

All: -0.300 ± 1.388 $\chi^2/\text{NDF}: 121.8/107$

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 10.886 ± 0.002 $\chi^2/\text{NDF}: 170288.1/27$

Left Out: 11.484 ± 0.002 $\chi^2/\text{NDF}: 129805.4/24$

Right Out: 10.978 ± 0.002 $\chi^2/\text{NDF}: 242724.7/31$

Left In: 11.392 ± 0.002 $\chi^2/\text{NDF}: 150493.3/22$

Left: 11.439 ± 0.001 $\chi^2/\text{NDF}: 281419.2/47$

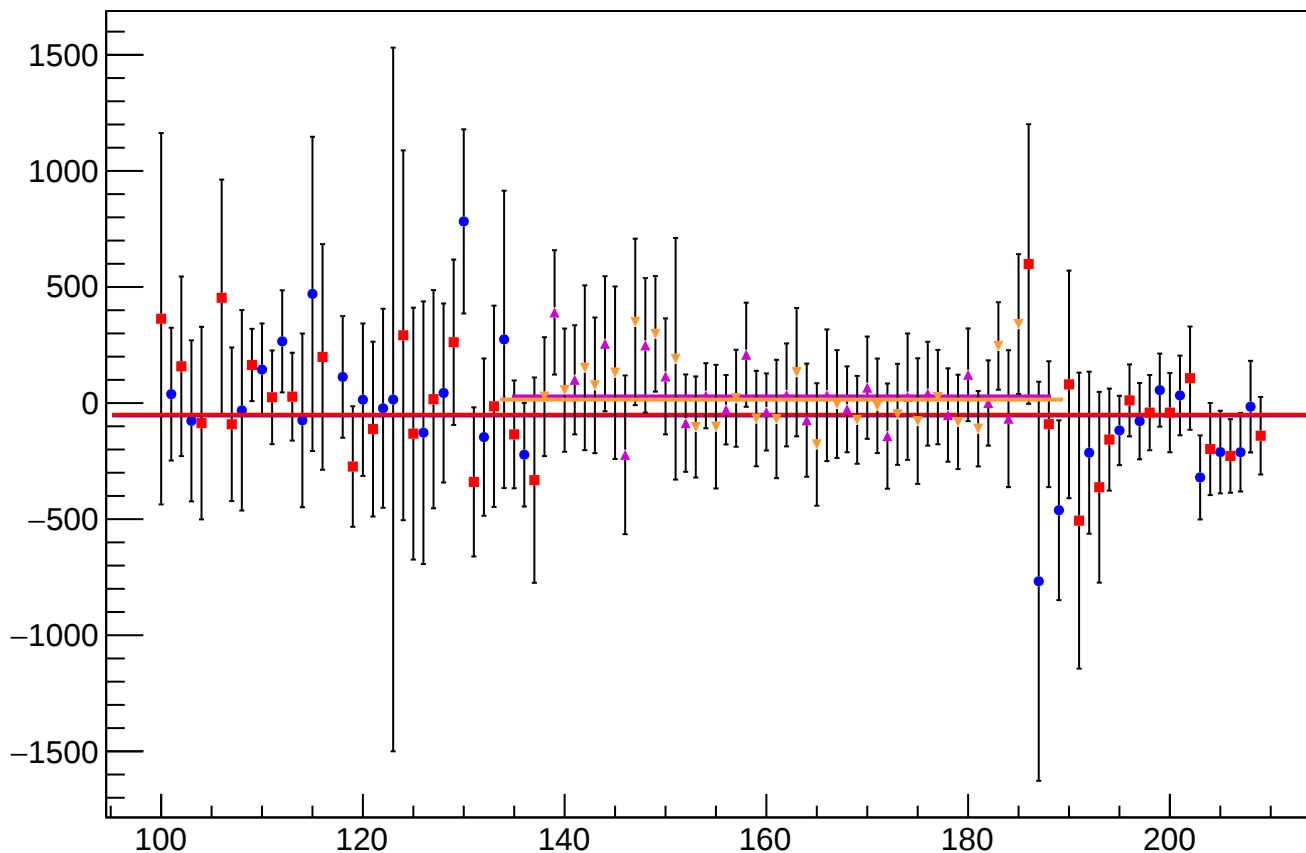
Right: 10.934 ± 0.001 $\chi^2/\text{NDF}: 414066.3/59$

In: 11.150 ± 0.001 $\chi^2/\text{NDF}: 353004.4/50$

Out: 11.238 ± 0.001 $\chi^2/\text{NDF}: 406642.3/56$

All: 11.196 ± 0.001 $\chi^2/\text{NDF}: 761641.4/107$

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs Slug, Sign Corrected



Right In: -53.087 ± 46.954 χ^2/NDF : 16.5/27

Left Out: 15.130 ± 47.705 χ^2/NDF : 8.0/24

Right Out: -50.398 ± 45.264 χ^2/NDF : 12.5/31

Left In: 28.500 ± 44.797 χ^2/NDF : 6.4/22

Left: 22.235 ± 32.656 χ^2/NDF : 14.4/47

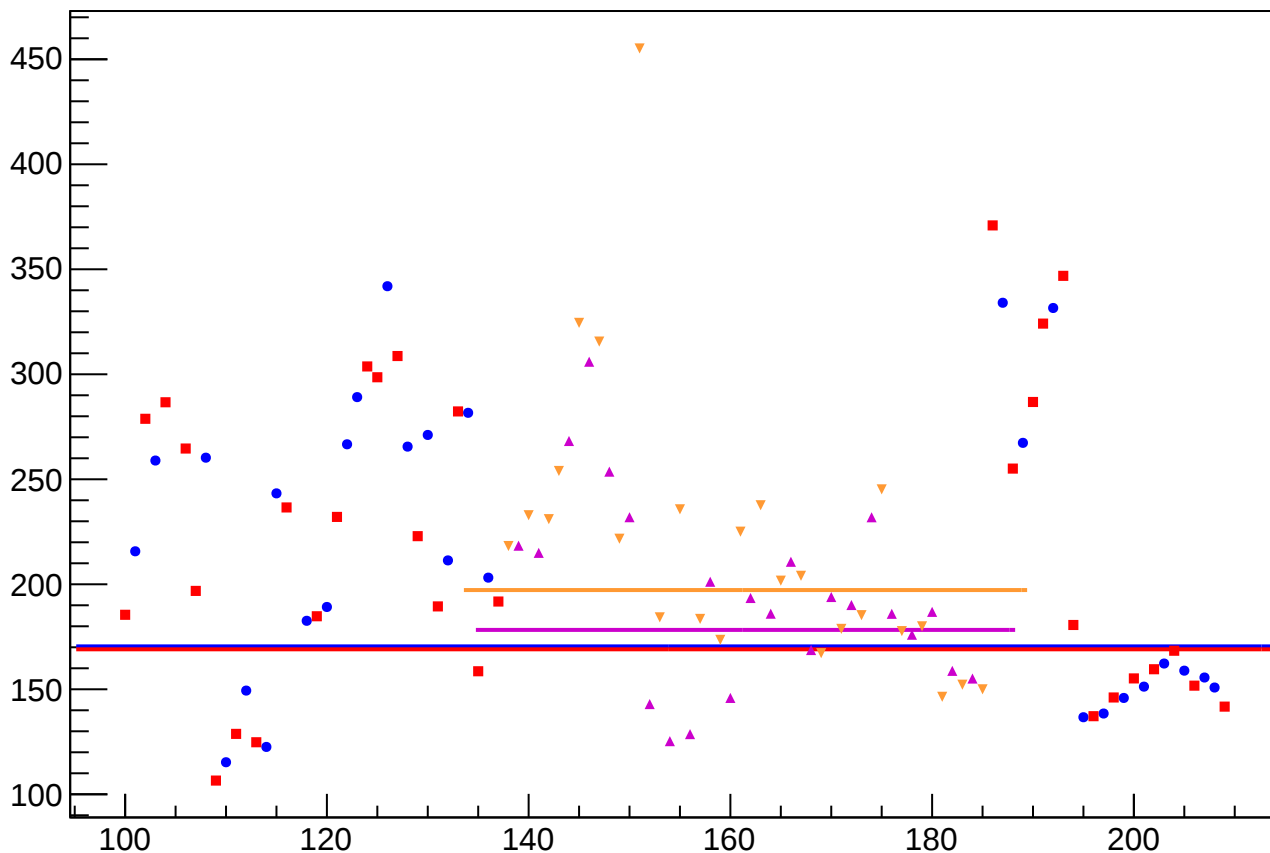
Right: -51.693 ± 32.588 χ^2/NDF : 29.0/59

In: -10.376 ± 32.412 χ^2/NDF : 24.5/50

Out: -19.353 ± 32.836 χ^2/NDF : 21.5/56

All: -14.806 ± 23.067 χ^2/NDF : 46.0/107

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: 169.033+/-0.032 χ^2/NDF : 2827760.5/31

Left In: 178.277+/-0.032 χ^2/NDF :1628916.6/22

Left: 187.167+/-0.023 χ^2/NDF : 3583826.5/47

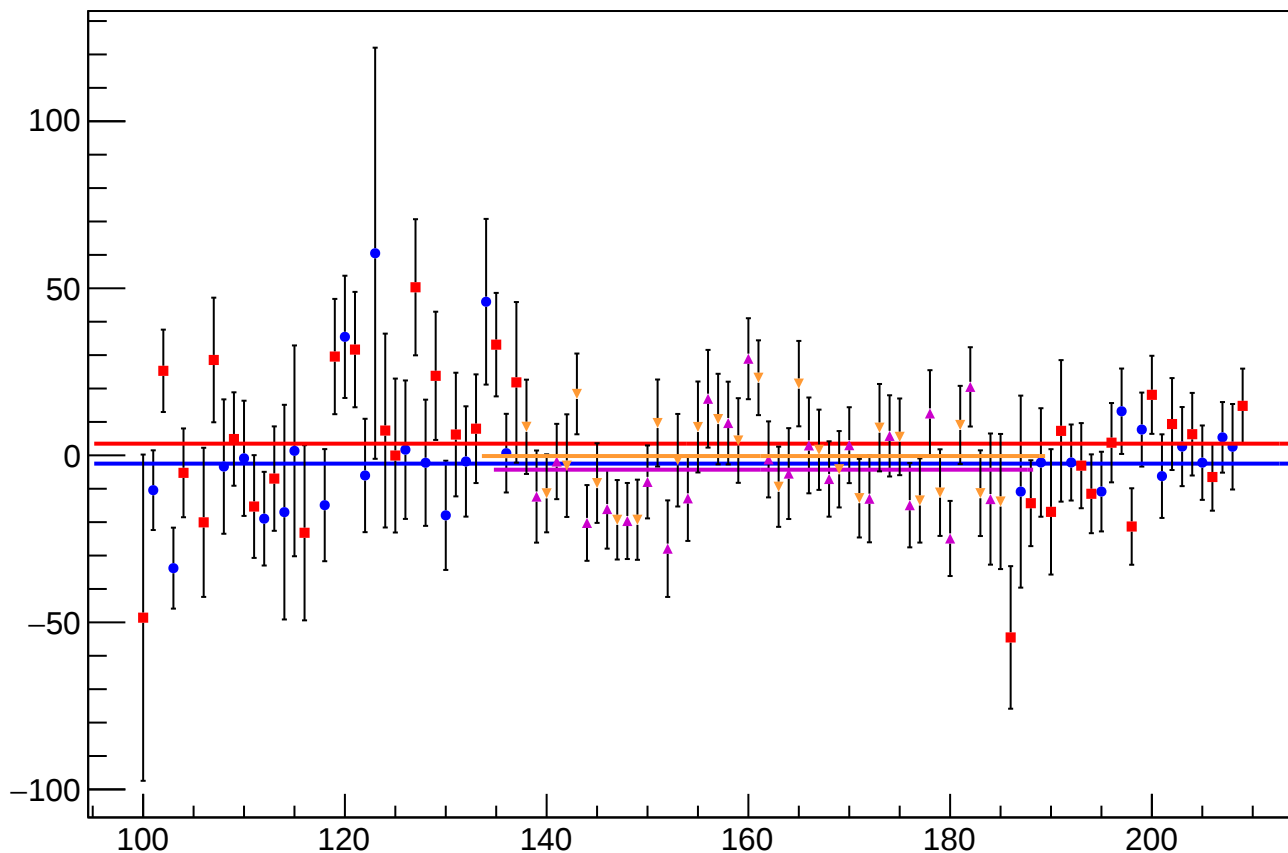
Right: 169.703+/-0.023 χ^2/NDF : 4938894.3/59

In: 174.535+/-0.023 χ^2/NDF :3768423.8/50

Out: 182.401+/-0.023 χ^2/NDF :4982761.2/56

All: 178.417+/-0.016 χ^2/NDF : 8809316.6/107

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs Slug, Sign Corrected



Right In: -2.481 ± 2.783 $\chi^2/\text{NDF}: 23.4/27$

Left Out: -0.211 ± 2.523 $\chi^2/\text{NDF}: 24.5/24$

Right Out: 3.494 ± 2.688 $\chi^2/\text{NDF}: 47.2/31$

Left In: -4.298 ± 2.589 $\chi^2/\text{NDF}: 31.6/22$

Left: -2.202 ± 1.807 $\chi^2/\text{NDF}: 57.4/47$

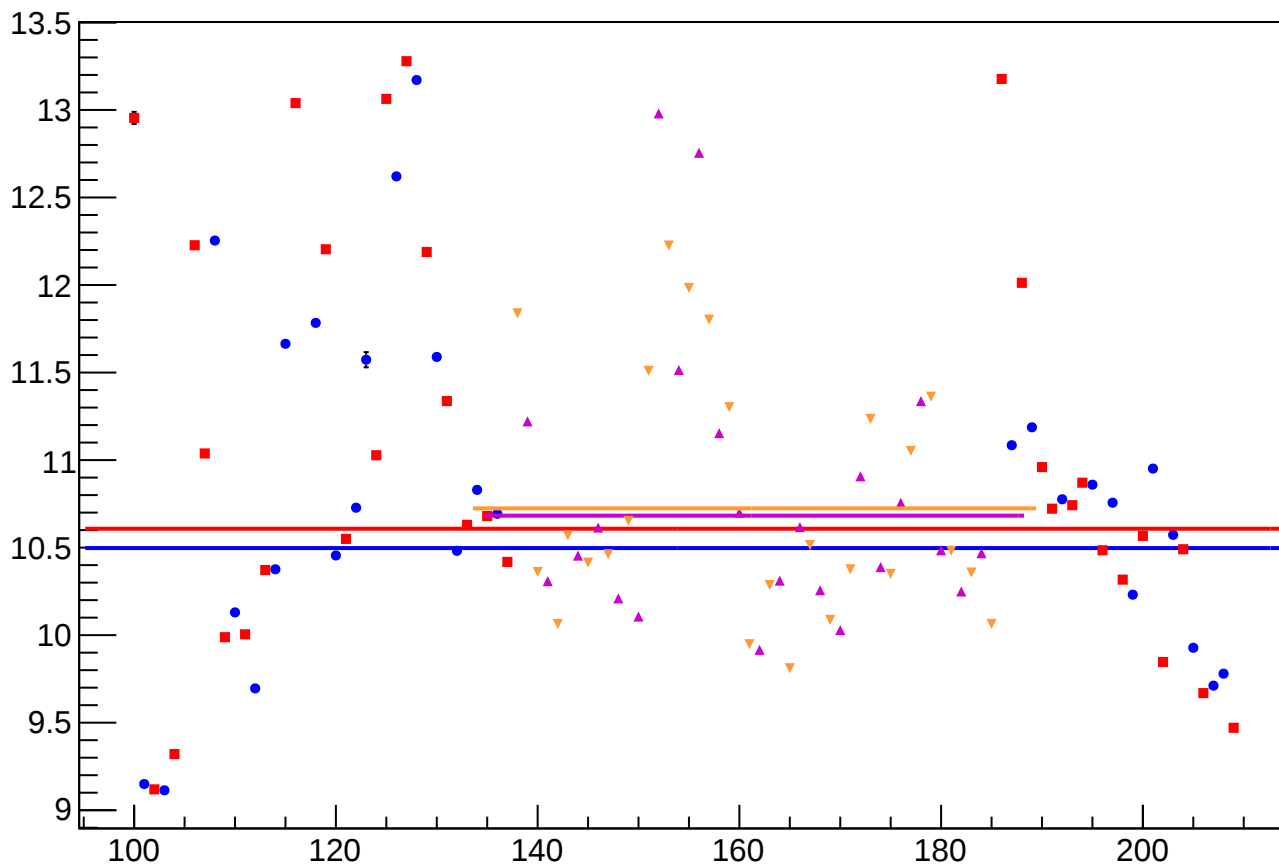
Right: 0.610 ± 1.934 $\chi^2/\text{NDF}: 73.0/59$

In: -3.455 ± 1.896 $\chi^2/\text{NDF}: 55.2/50$

Out: 1.525 ± 1.840 $\chi^2/\text{NDF}: 72.8/56$

All: -0.891 ± 1.320 $\chi^2/\text{NDF}: 131.6/107$

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: 10.608 $\pm$ 0.002 χ^2 /NDF: 281143.4/31

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

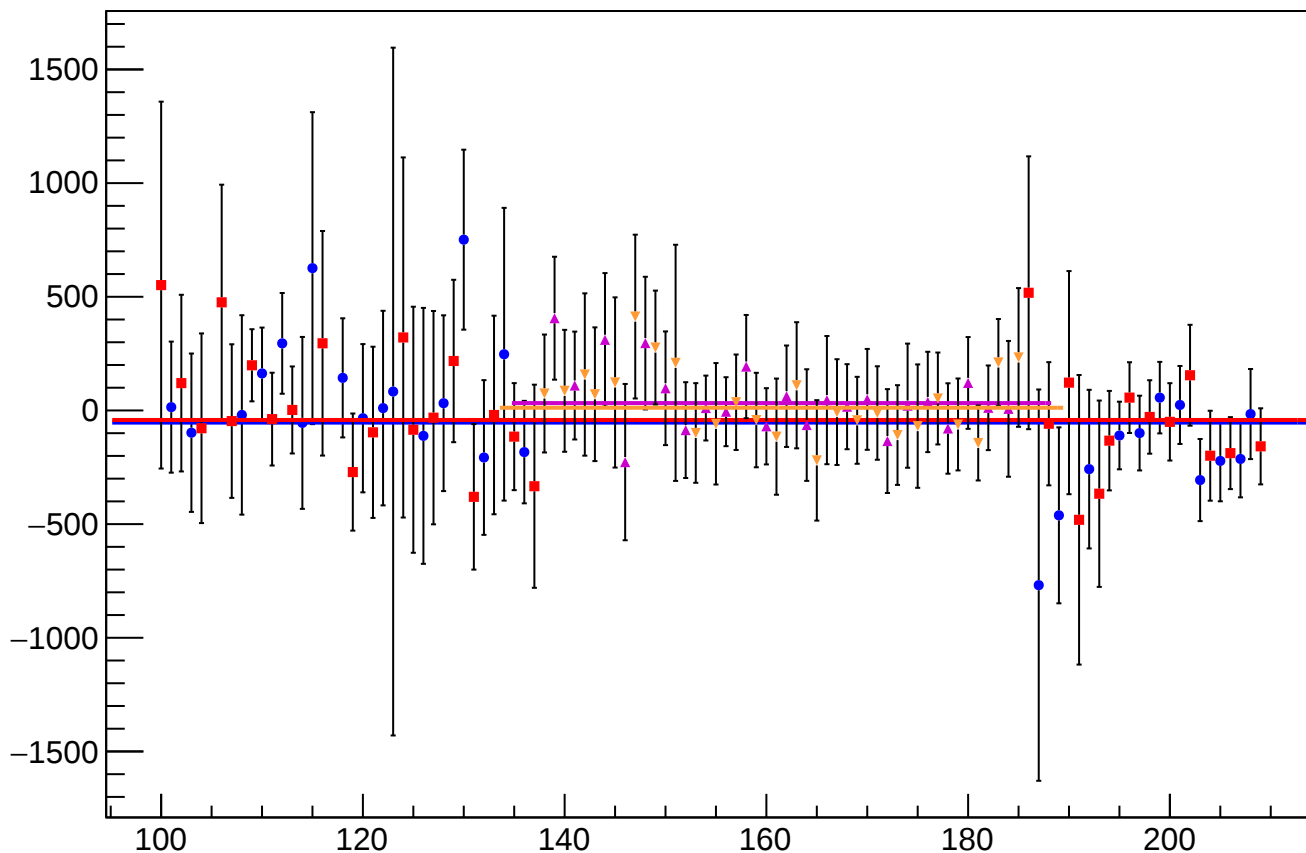
Right: 10.555 $\pm$ 0.001 χ^2 /NDF: 478253.8/59

In: 10.597 $\pm$ 0.001 χ^2 /NDF:348061.8/50

Out: 10.670 $\pm$ 0.001 χ^2 /NDF:415690.0/56

All: 10.634 $\pm$ 0.001 χ^2 /NDF: 765280.2/107

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: -41.887 ± 45.424 $\chi^2/\text{NDF}: 13.2/31$

Left In: 32.413 ± 45.155 $\chi^2/\text{NDF}: 6.9/22$

Left: 22.783 ± 32.896 $\chi^2/\text{NDF}: 14.6/47$

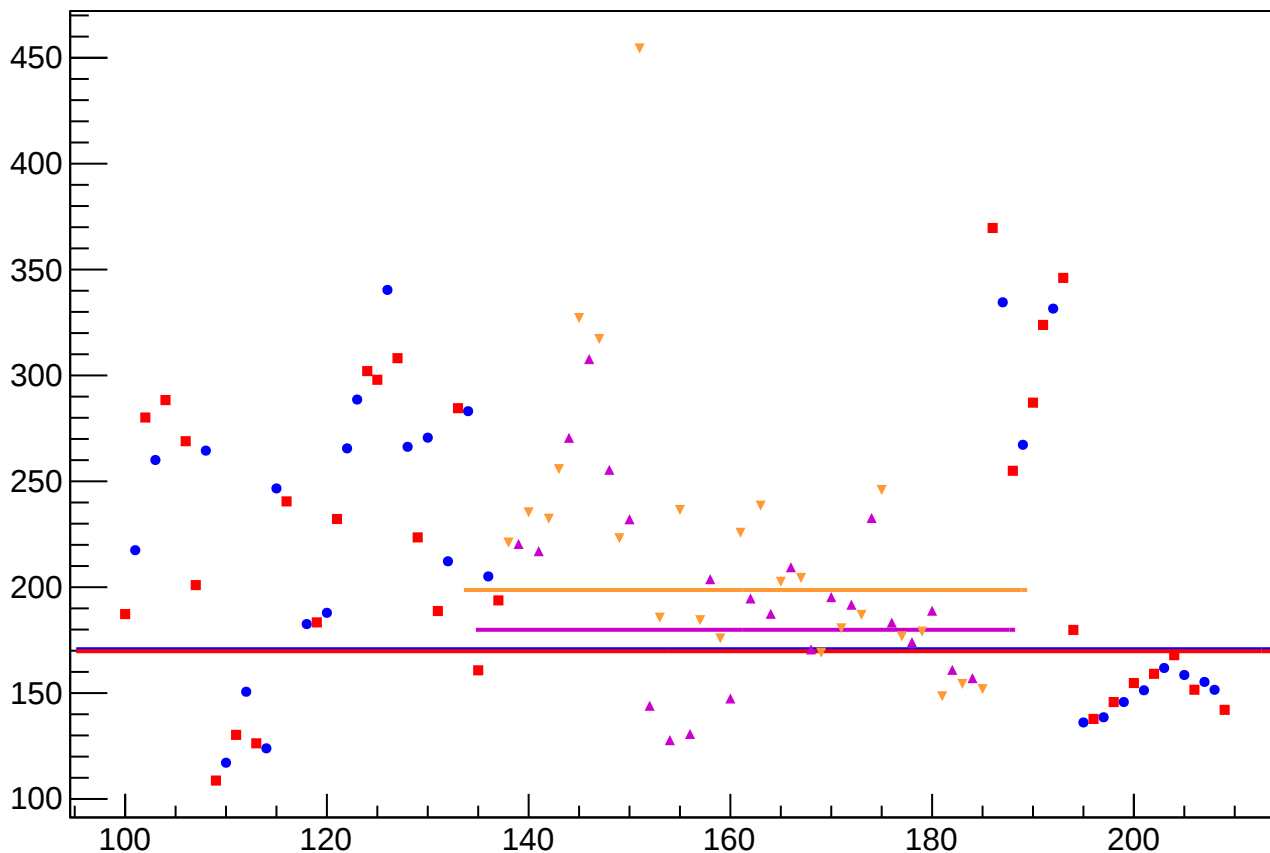
Right: -47.462 ± 32.673 $\chi^2/\text{NDF}: 30.3/59$

In: -8.765 ± 32.573 $\chi^2/\text{NDF}: 25.7/50$

Out: -16.492 ± 33.000 $\chi^2/\text{NDF}: 21.5/56$

All: -12.579 ± 23.182 $\chi^2/\text{NDF}: 47.2/107$

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 170.713 $\pm$ 0.033 χ^2/NDF : 2109113.9/27

Left Out: 198.695 $\pm$ 0.034 χ^2/NDF : 1759311.9/24

Right Out: 169.775 $\pm$ 0.032 χ^2/NDF : 2787323.4/31

Left In: 179.886 $\pm$ 0.032 χ^2/NDF : 1580636.4/22

Left: 188.712 $\pm$ 0.023 χ^2/NDF : 3502782.6/47

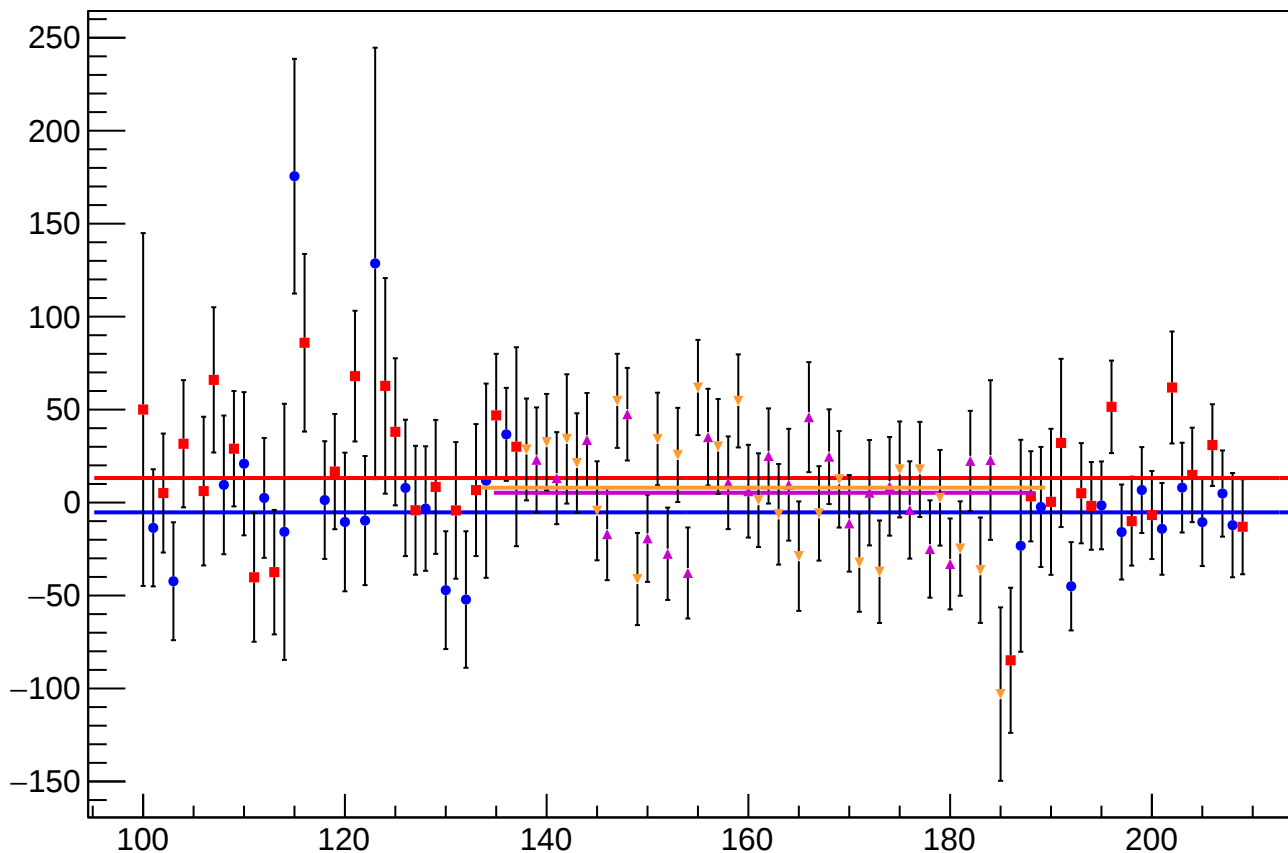
Right: 170.227 $\pm$ 0.023 χ^2/NDF : 4896848.5/59

In: 175.486 $\pm$ 0.023 χ^2/NDF : 3729345.5/50

Out: 183.431 $\pm$ 0.023 χ^2/NDF : 4929464.1/56

All: 179.407 $\pm$ 0.016 χ^2/NDF : 8717530.6/107

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -5.266 ± 5.842 χ^2/NDF : 22.3/27

Left Out: 8.004 ± 5.334 χ^2/NDF : 37.4/24

Right Out: 13.205 ± 5.618 χ^2/NDF : 30.4/31

Left In: 5.261 ± 5.465 χ^2/NDF : 20.8/22

Left: 6.665 ± 3.817 χ^2/NDF : 58.3/47

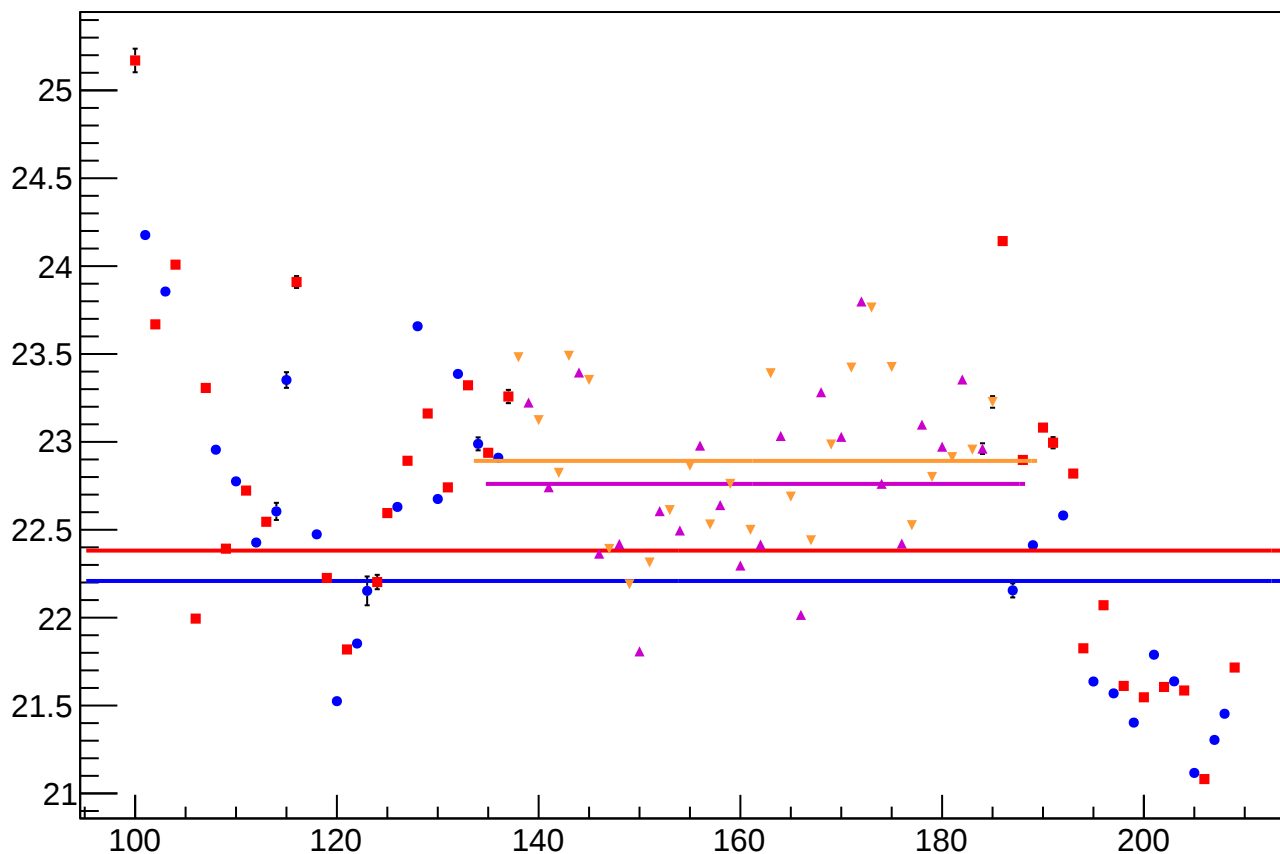
Right: 4.330 ± 4.049 χ^2/NDF : 57.9/59

In: 0.348 ± 3.991 χ^2/NDF : 44.8/50

Out: 10.469 ± 3.868 χ^2/NDF : 68.3/56

All: 5.567 ± 2.778 χ^2/NDF : 116.4/107

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.209 $\pm$ 0.004 χ^2 /NDF: 40692.3/27

Left Out: 22.892 $\pm$ 0.004 χ^2 /NDF:12995.5/24

Right Out: 22.382 $\pm$ 0.004 χ^2 /NDF: 41934.7/31

Left In: 22.761 $\pm$ 0.004 χ^2 /NDF:14550.0/22

Left: 22.828 $\pm$ 0.003 χ^2 /NDF: 28133.9/47

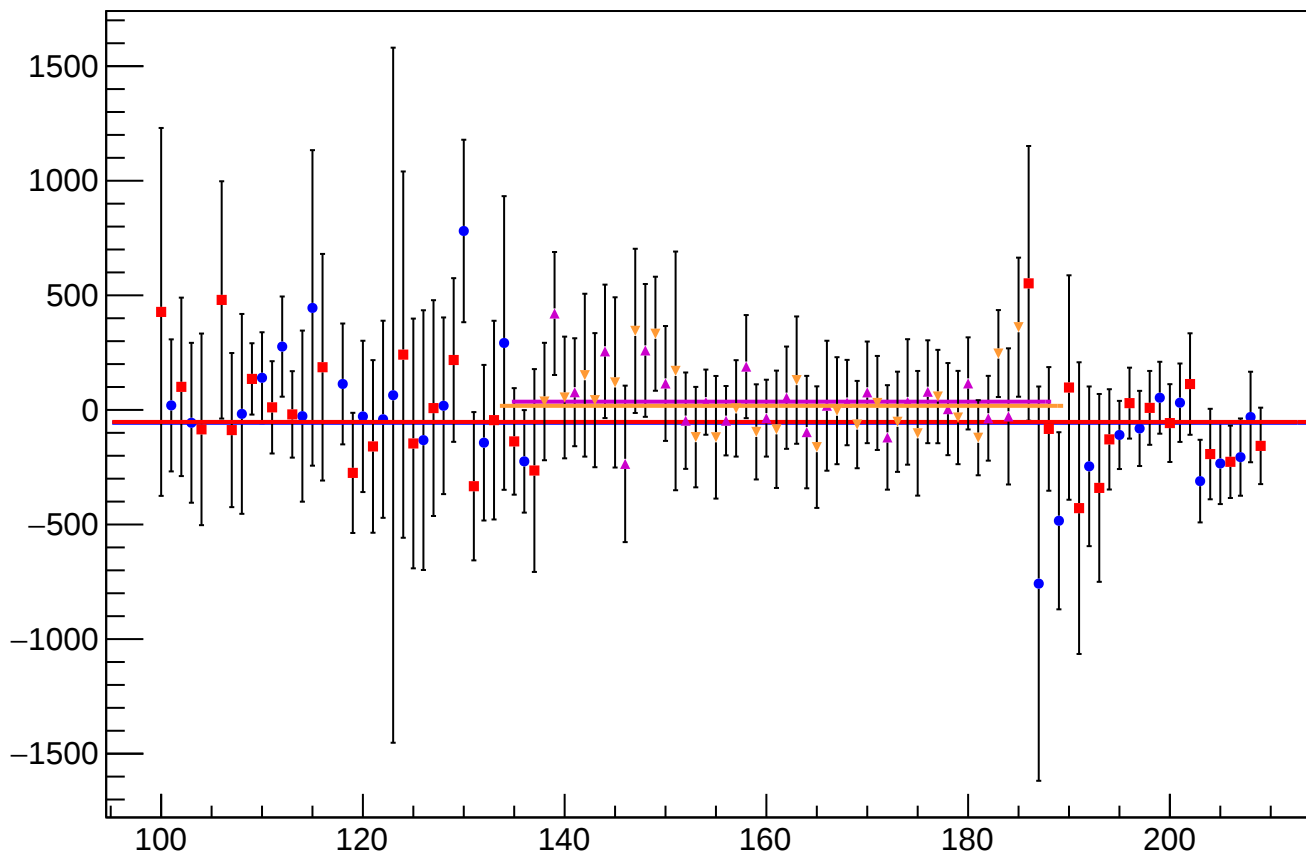
Right: 22.299 $\pm$ 0.003 χ^2 /NDF: 83537.0/59

In: 22.503 $\pm$ 0.003 χ^2 /NDF:64774.1/50

Out: 22.650 $\pm$ 0.003 χ^2 /NDF:63610.0/56

All: 22.579 $\pm$ 0.002 χ^2 /NDF: 129778.5/107

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: -52.396 $\pm$ 45.220 χ^2 /NDF: 11.3/31

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

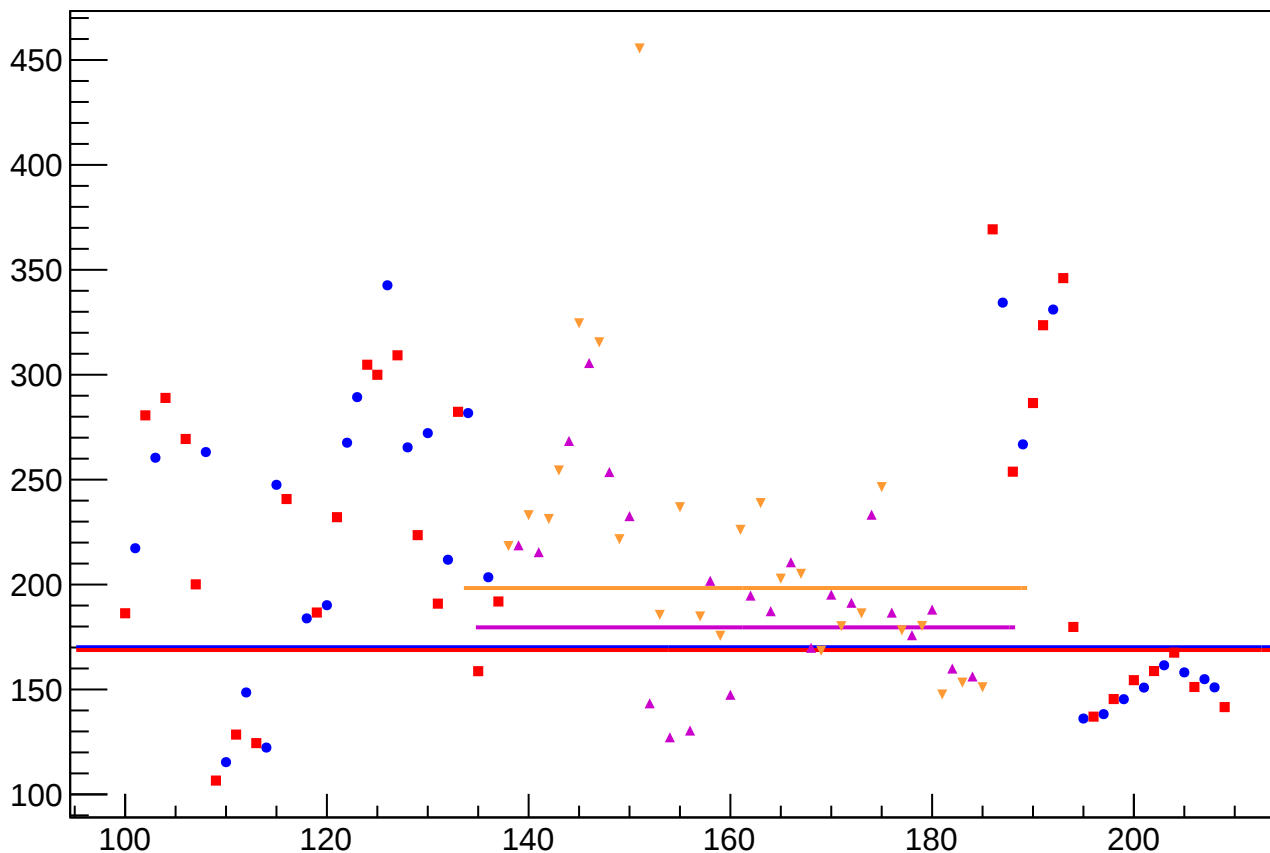
Right: -54.150 $\pm$ 32.552 χ^2 /NDF: 27.9/59

In: -8.272 $\pm$ 32.502 χ^2 /NDF:24.9/50

Out: -19.357 $\pm$ 32.895 χ^2 /NDF:20.9/56

All: -13.748 $\pm$ 23.120 χ^2 /NDF: 45.9/107

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 170.134+/-0.033 χ^2/NDF : 2139302.7/27

Left Out: 198.344+/-0.034 χ^2/NDF : 1757450.6/24

Right Out: 168.805+/-0.032 χ^2/NDF : 2855074.4/31

Left In: 179.605+/-0.032 χ^2/NDF : 1575744.0/22

Left: 188.400+/-0.023 χ^2/NDF : 3495336.8/47

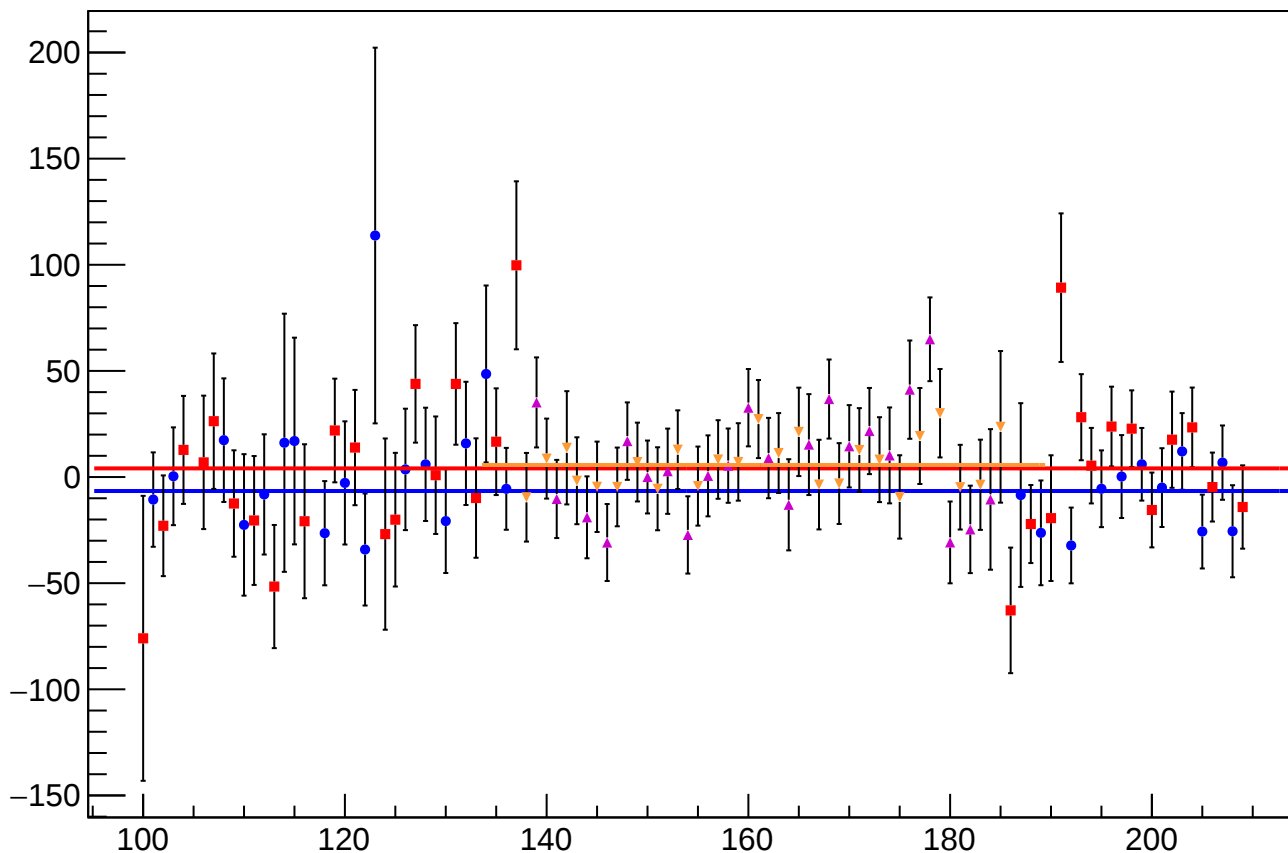
Right: 169.445+/-0.023 χ^2/NDF : 4995208.6/59

In: 175.056+/-0.023 χ^2/NDF : 3757438.8/50

Out: 182.712+/-0.023 χ^2/NDF : 5014306.2/56

All: 178.838+/-0.016 χ^2/NDF : 8826575.5/107

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -6.579 ± 4.465 $\chi^2/\text{NDF}: 15.1/27$

Left Out: 5.680 ± 4.024 $\chi^2/\text{NDF}: 7.7/24$

Right Out: 4.074 ± 4.305 $\chi^2/\text{NDF}: 41.7/31$

Left In: 5.595 ± 4.121 $\chi^2/\text{NDF}: 36.4/22$

Left: 5.639 ± 2.879 $\chi^2/\text{NDF}: 44.1/47$

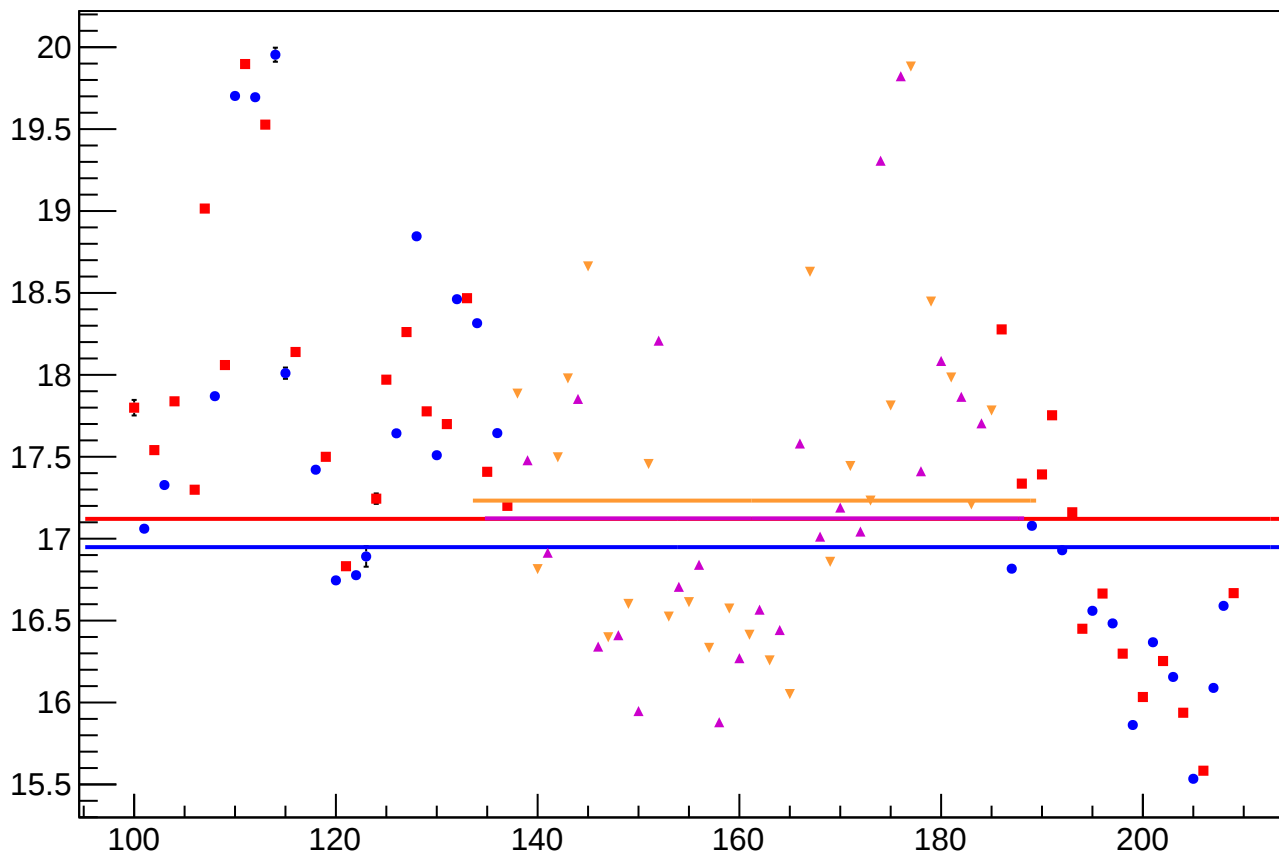
Right: -1.058 ± 3.099 $\chi^2/\text{NDF}: 59.8/59$

In: -0.006 ± 3.028 $\chi^2/\text{NDF}: 55.5/50$

Out: 4.931 ± 2.940 $\chi^2/\text{NDF}: 49.6/56$

All: 2.536 ± 2.109 $\chi^2/\text{NDF}: 106.4/107$

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: 17.121 $\pm$ 0.003 χ^2 /NDF: 106583.9/31

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

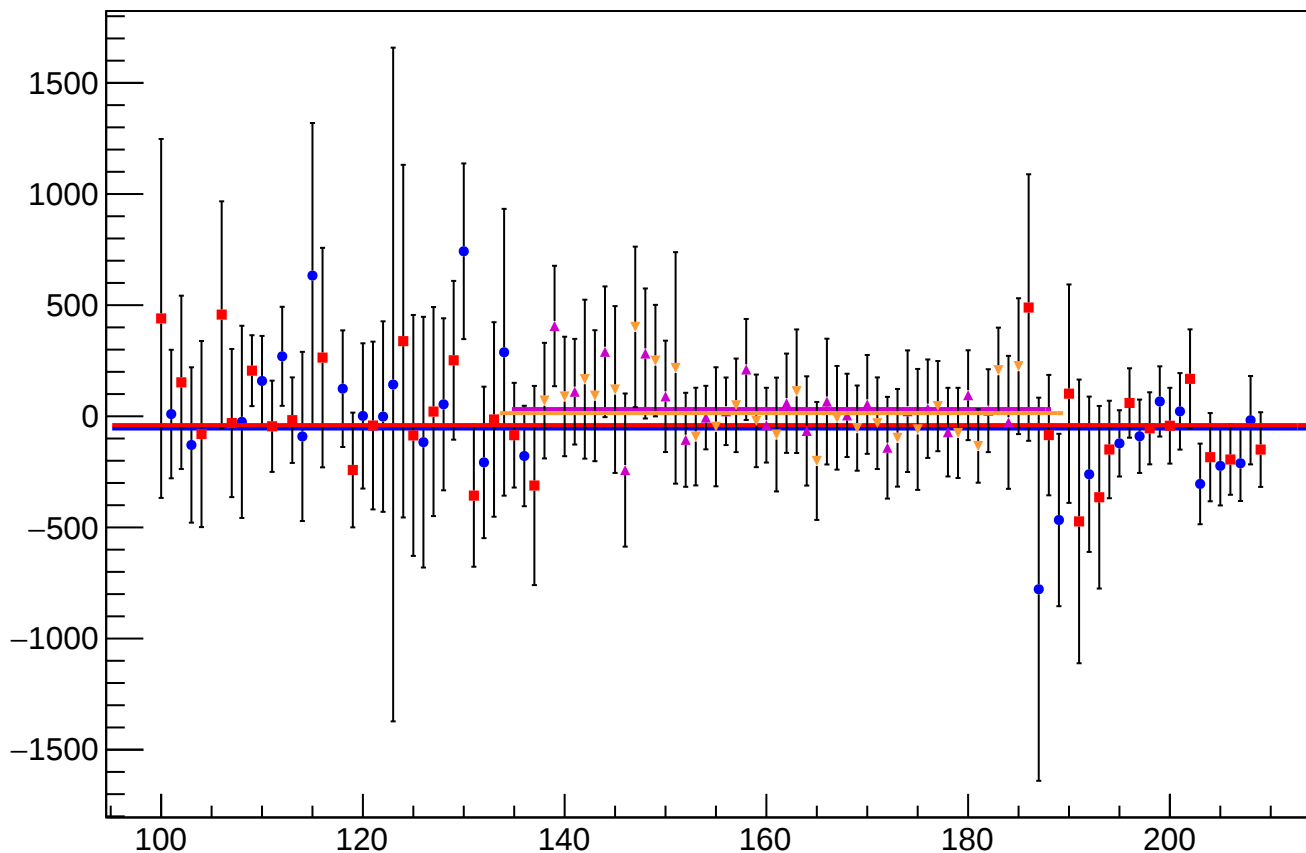
Right: 17.038 $\pm$ 0.002 χ^2 /NDF: 207069.9/59

In: 17.043 $\pm$ 0.002 χ^2 /NDF:201351.4/50

Out: 17.180 $\pm$ 0.002 χ^2 /NDF:206001.8/56

All: 17.114 $\pm$ 0.001 χ^2 /NDF: 409472.3/107

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: -39.530 ± 45.542 χ^2/NDF : 12.7/31

Left In: 32.571 ± 45.248 χ^2/NDF : 6.7/22

Left: 24.028 ± 32.967 χ^2/NDF : 13.7/47

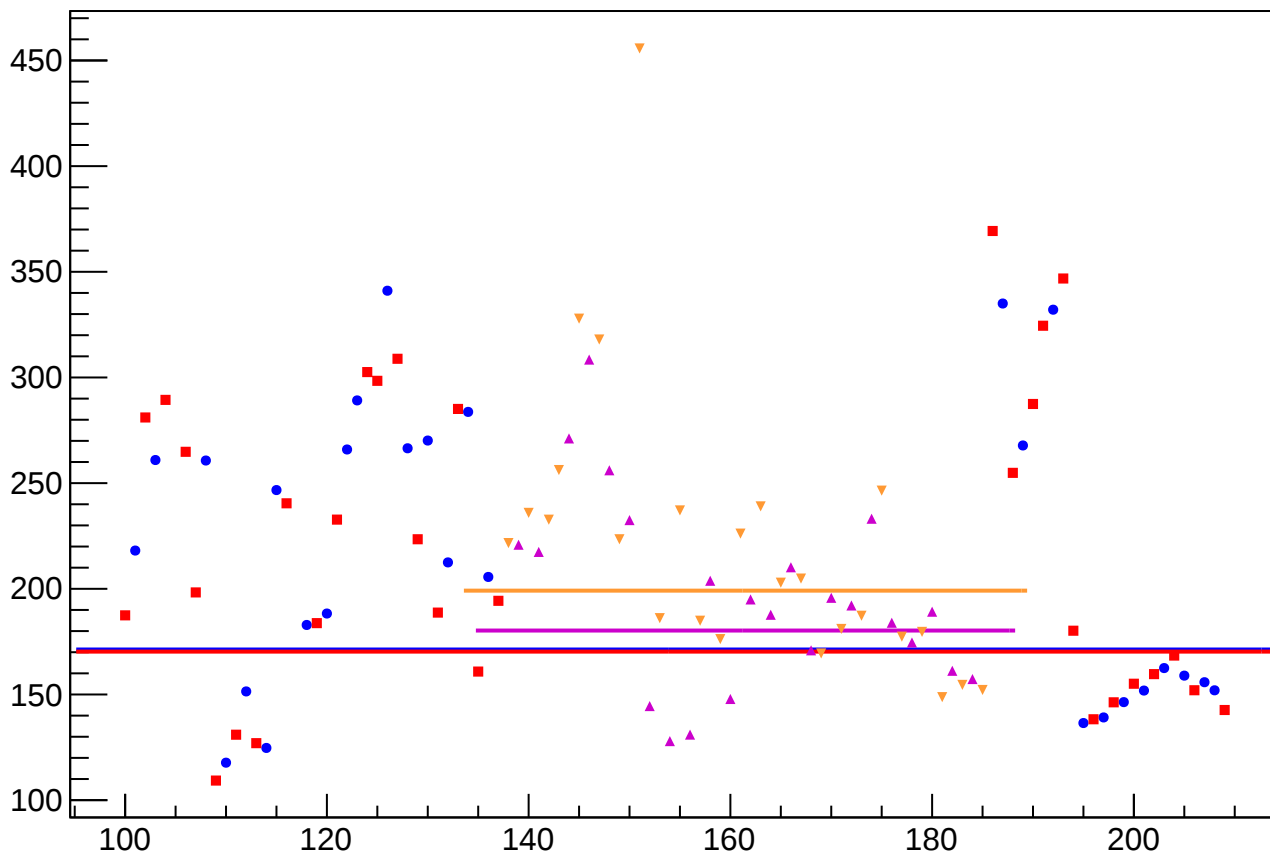
Right: -47.014 ± 32.765 χ^2/NDF : 29.4/59

In: -9.412 ± 32.654 χ^2/NDF : 25.2/50

Out: -14.072 ± 33.080 χ^2/NDF : 20.3/56

All: -11.712 ± 23.239 χ^2/NDF : 45.5/107

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 171.281+/-0.033 χ^2/NDF : 2091240.5/27

Left Out: 199.136+/-0.034 χ^2/NDF : 1760298.1/24

Right Out: 170.288+/-0.032 χ^2/NDF : 2762742.6/31

Left In: 180.256+/-0.032 χ^2/NDF : 1580553.5/22

Left: 189.114+/-0.023 χ^2/NDF : 3504211.1/47

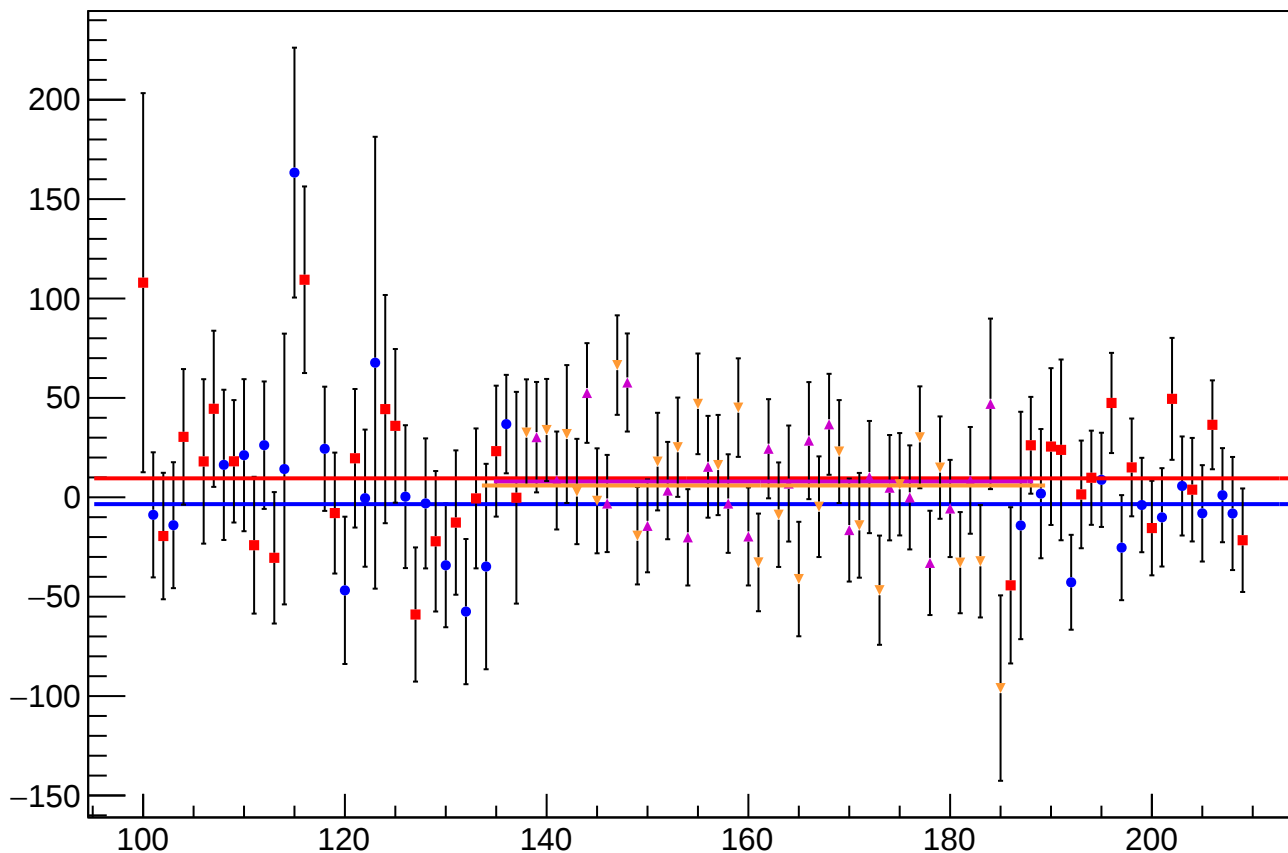
Right: 170.767+/-0.023 χ^2/NDF : 4854441.4/59

In: 175.956+/-0.023 χ^2/NDF : 3709502.9/50

Out: 183.916+/-0.023 χ^2/NDF : 4902123.1/56

All: 179.884+/-0.016 χ^2/NDF : 8670279.0/107

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -3.439 ± 5.876 $\chi^2/\text{NDF}: 21.6/27$

Left Out: 5.937 ± 5.285 $\chi^2/\text{NDF}: 36.1/24$

Right Out: 9.536 ± 5.637 $\chi^2/\text{NDF}: 27.7/31$

Left In: 7.915 ± 5.422 $\chi^2/\text{NDF}: 18.7/22$

Left: 6.901 ± 3.784 $\chi^2/\text{NDF}: 54.9/47$

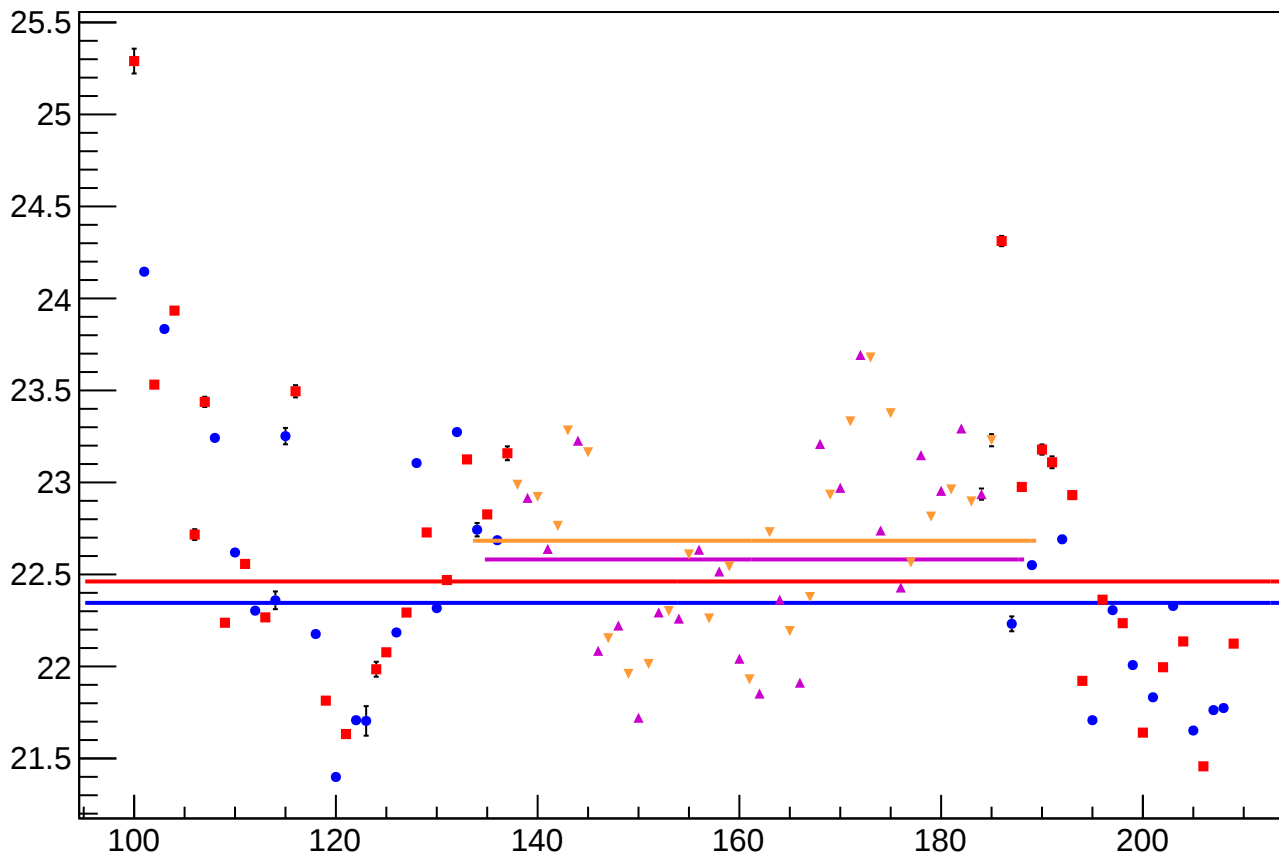
Right: 3.318 ± 4.068 $\chi^2/\text{NDF}: 51.8/59$

In: 2.695 ± 3.985 $\chi^2/\text{NDF}: 42.3/50$

Out: 7.621 ± 3.856 $\chi^2/\text{NDF}: 64.1/56$

All: 5.239 ± 2.771 $\chi^2/\text{NDF}: 107.1/107$

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: 22.462+/-0.004 χ^2/NDF : 29822.7/31

Left In: 22.581+/-0.004 χ^2/NDF :17904.5/22

Left: 22.634+/-0.003 χ^2/NDF : 34586.9/47

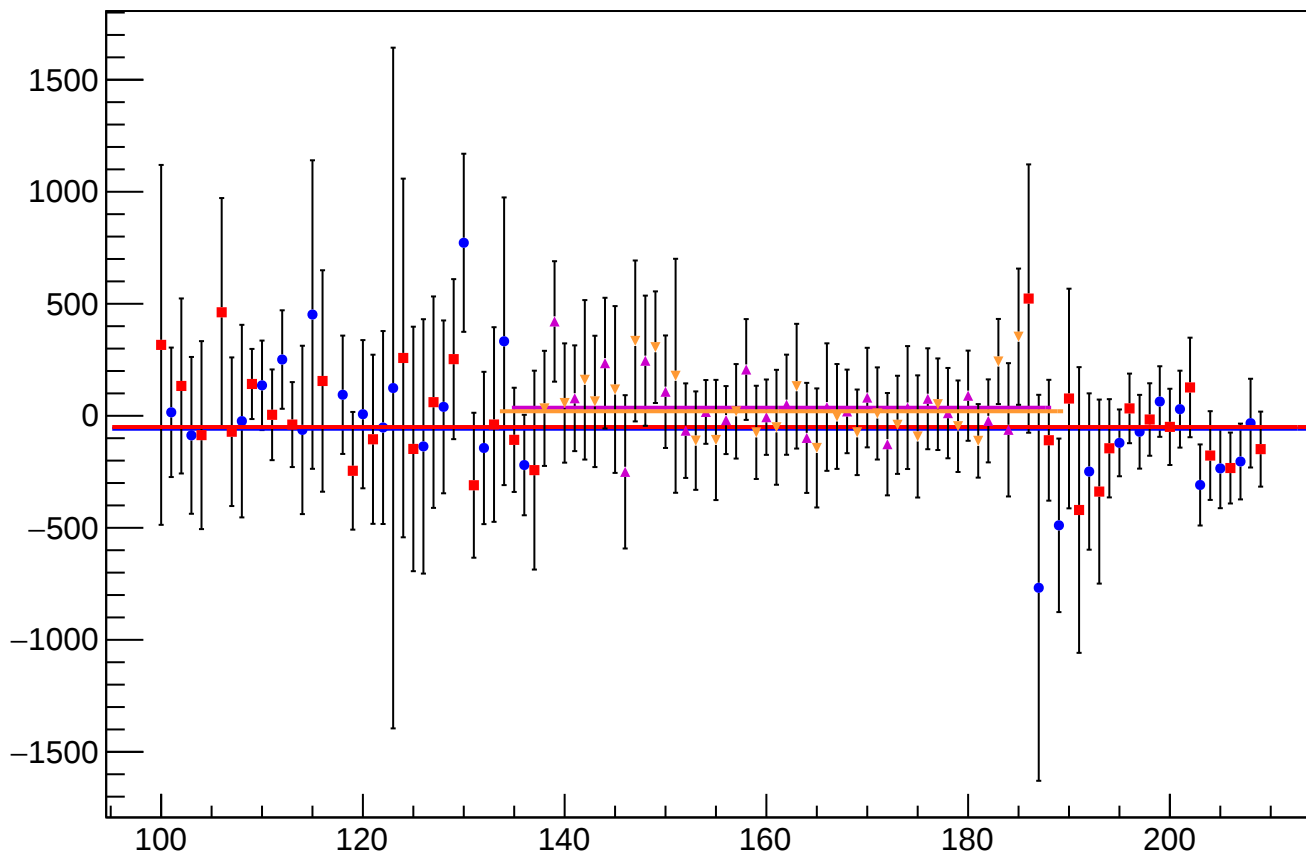
Right: 22.406+/-0.003 χ^2/NDF : 54741.0/59

In: 22.473+/-0.003 χ^2/NDF :44154.7/50

Out: 22.580+/-0.003 χ^2/NDF :47784.0/56

All: 22.528+/-0.002 χ^2/NDF : 92680.7/107

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -57.724 ± 47.039 $\chi^2/\text{NDF}: 16.3/27$

Left Out: 20.306 ± 48.049 $\chi^2/\text{NDF}: 7.7/24$

Right Out: -50.086 ± 45.340 $\chi^2/\text{NDF}: 10.7/31$

Left In: 35.996 ± 45.180 $\chi^2/\text{NDF}: 6.1/22$

Left: 28.633 ± 32.915 $\chi^2/\text{NDF}: 13.8/47$

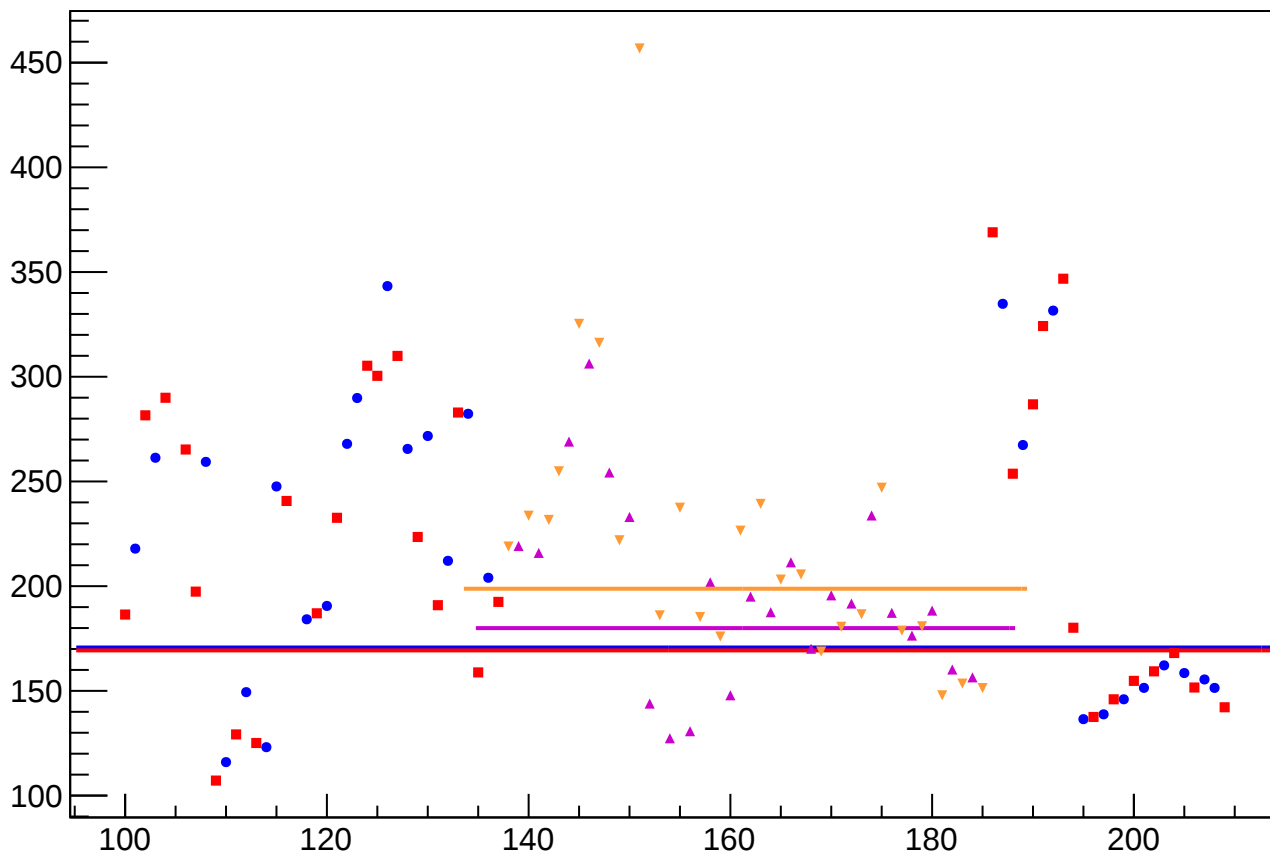
Right: -53.765 ± 32.644 $\chi^2/\text{NDF}: 27.0/59$

In: -8.976 ± 32.584 $\chi^2/\text{NDF}: 24.4/50$

Out: -16.930 ± 32.976 $\chi^2/\text{NDF}: 19.6/56$

All: -12.905 ± 23.178 $\chi^2/\text{NDF}: 44.0/107$

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 170.708 $\pm$ 0.033 χ^2 /NDF: 2120846.8/27

Left Out: 198.784 $\pm$ 0.034 χ^2 /NDF:1758481.8/24

Right Out: 169.326 $\pm$ 0.032 χ^2 /NDF: 2829598.6/31

Left In: 179.972 $\pm$ 0.032 χ^2 /NDF:1575888.3/22

Left: 188.800 $\pm$ 0.023 χ^2 /NDF: 3497081.8/47

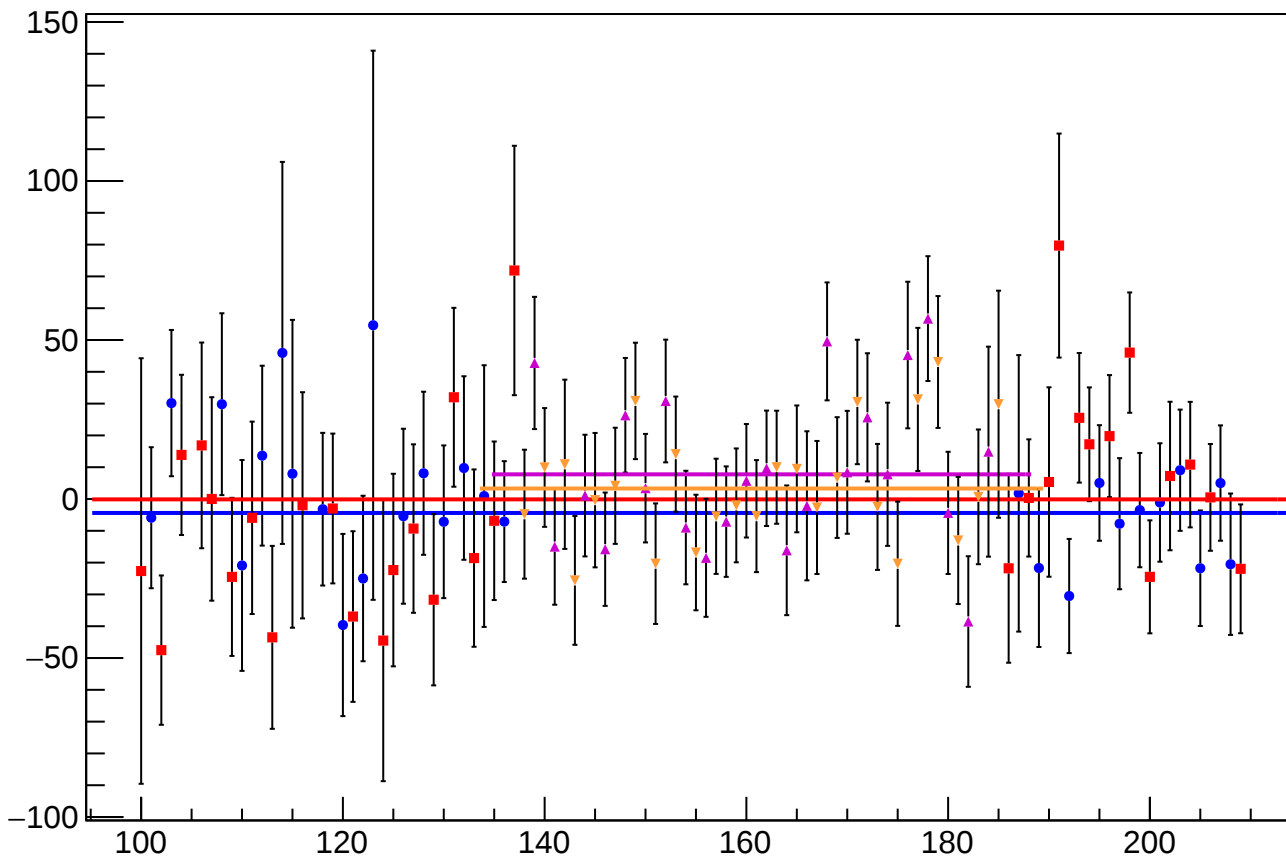
Right: 169.991 $\pm$ 0.023 χ^2 /NDF: 4951340.1/59

In: 175.527 $\pm$ 0.023 χ^2 /NDF:3737091.7/50

Out: 183.201 $\pm$ 0.023 χ^2 /NDF:4985756.8/56

All: 179.318 $\pm$ 0.016 χ^2 /NDF: 8777659.4/107

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: -0.114 ± 4.332 $\chi^2/\text{NDF}: 36.9/31$

Left In: 7.756 ± 4.061 $\chi^2/\text{NDF}: 34.3/22$

Left: 5.472 ± 2.833 $\chi^2/\text{NDF}: 53.6/47$

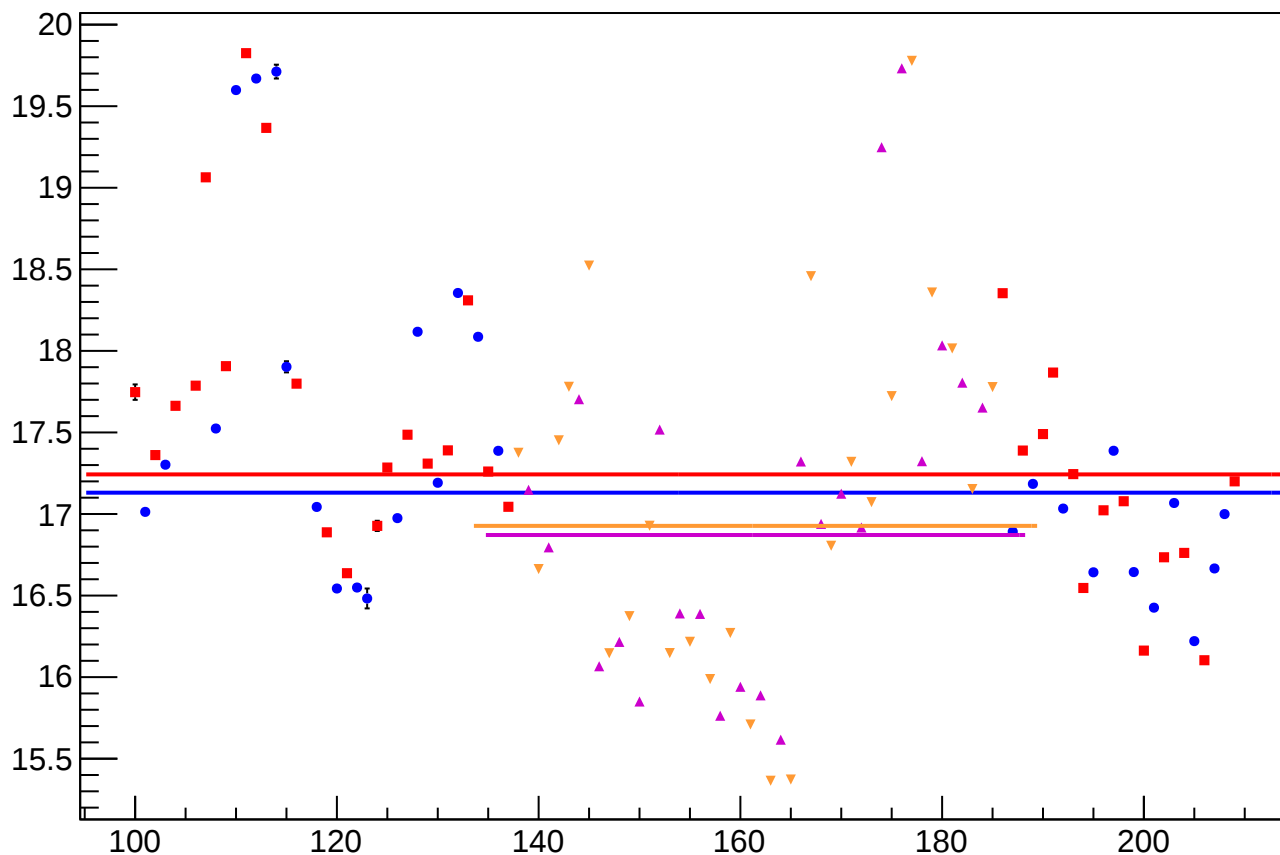
Right: -2.163 ± 3.124 $\chi^2/\text{NDF}: 50.8/59$

In: 2.321 ± 3.018 $\chi^2/\text{NDF}: 51.7/50$

Out: 1.753 ± 2.920 $\chi^2/\text{NDF}: 55.9/56$

All: 2.027 ± 2.099 $\chi^2/\text{NDF}: 107.6/107$

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: 17.243 $\pm$ 0.003 χ^2 /NDF: 65844.4/31

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

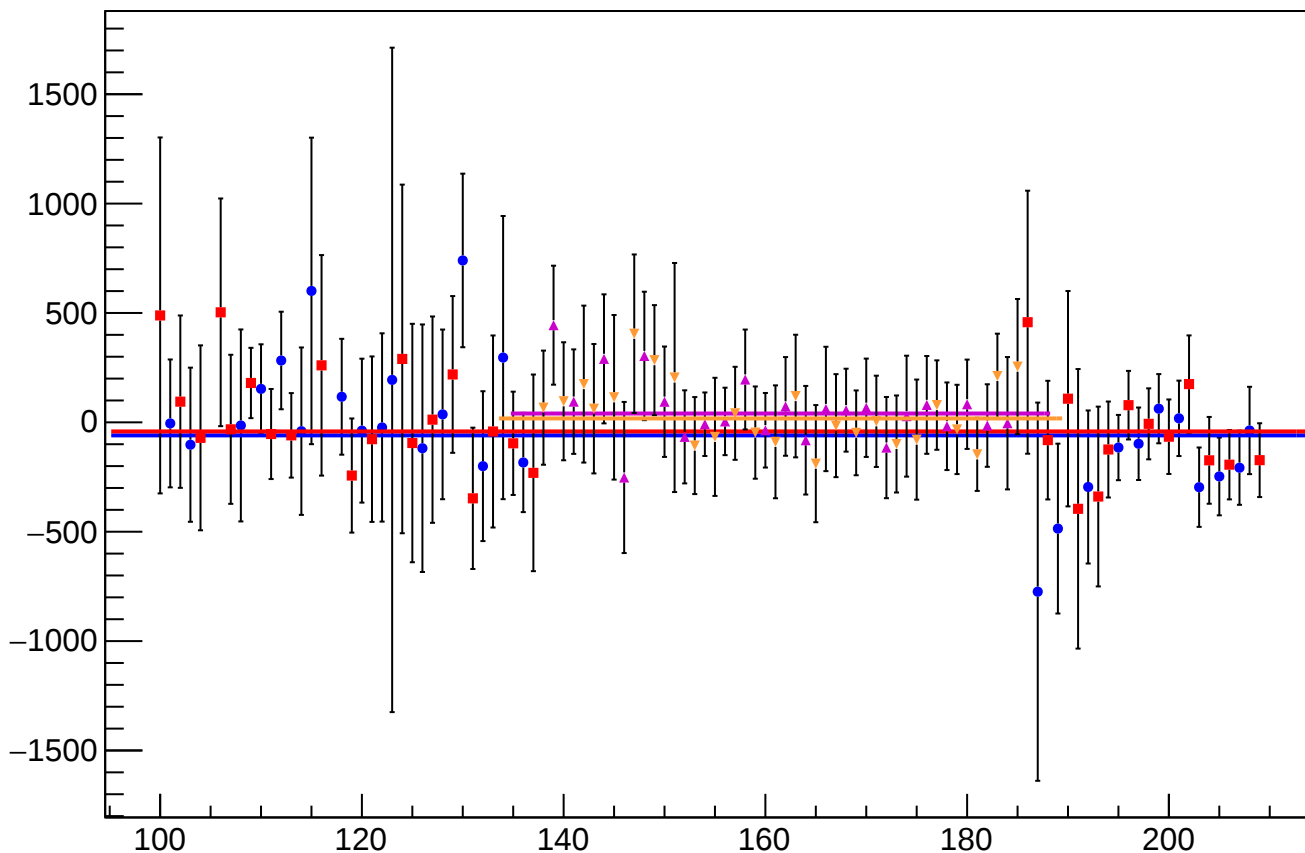
Right: 17.189 $\pm$ 0.002 χ^2 /NDF: 121132.8/59

In: 16.987 $\pm$ 0.002 χ^2 /NDF:176297.5/50

Out: 17.071 $\pm$ 0.002 χ^2 /NDF:210165.0/56

All: 17.030 $\pm$ 0.001 χ^2 /NDF: 387247.0/107

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: -41.510 ± 45.703 χ^2/NDF : 11.7/31

Left In: 40.355 ± 45.689 χ^2/NDF : 6.6/22

Left: 29.774 ± 33.271 χ^2/NDF : 14.2/47

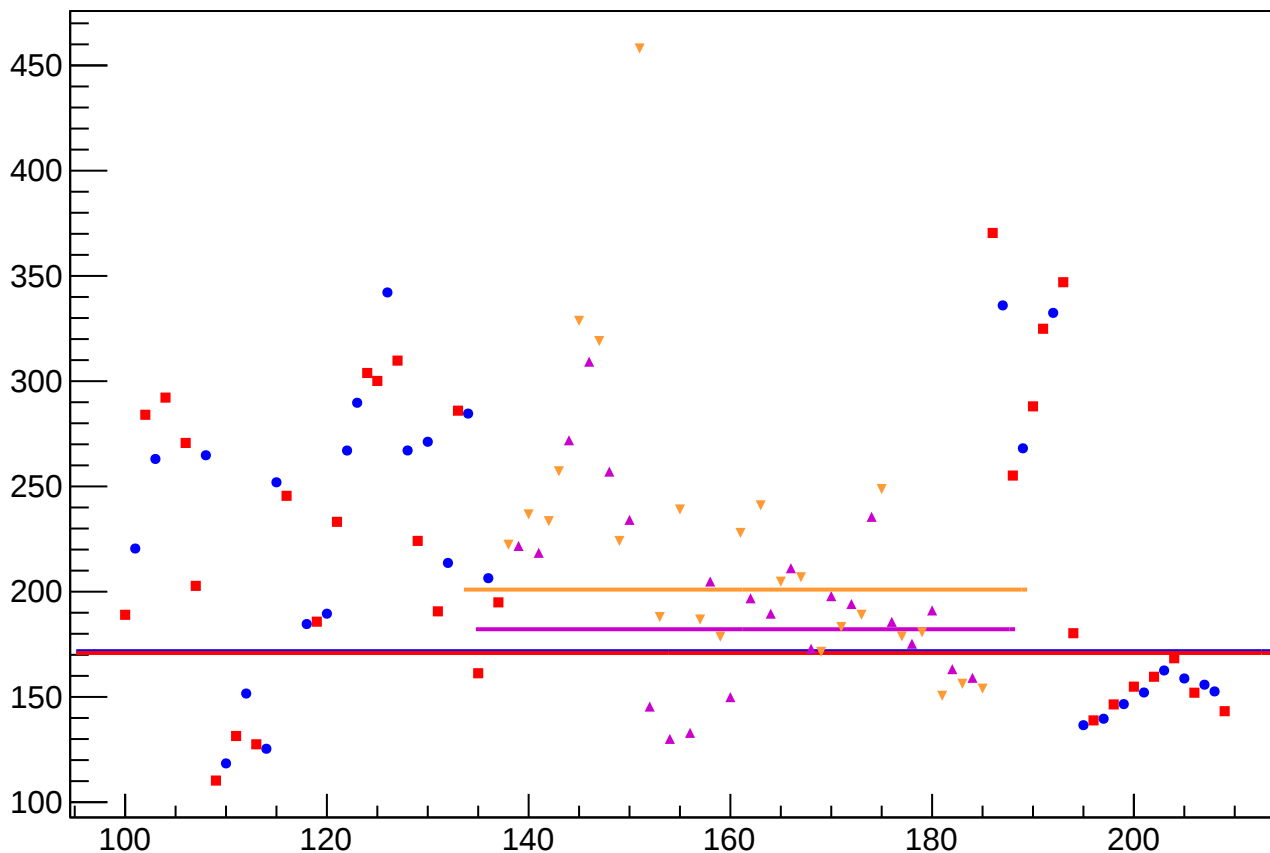
Right: -50.245 ± 32.870 χ^2/NDF : 28.5/59

In: -7.885 ± 32.865 χ^2/NDF : 25.7/50

Out: -13.630 ± 33.277 χ^2/NDF : 20.0/56

All: -10.722 ± 23.383 χ^2/NDF : 45.6/107

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 171.733 $\pm$ 0.033 χ^2/NDF : 2106905.0/27

Left Out: 200.985 $\pm$ 0.034 χ^2/NDF : 1727291.4/24

Right Out: 170.889 $\pm$ 0.032 χ^2/NDF : 2773182.0/31

Left In: 182.158 $\pm$ 0.032 χ^2/NDF : 1535922.8/22

Left: 191.001 $\pm$ 0.024 χ^2/NDF : 3422724.8/47

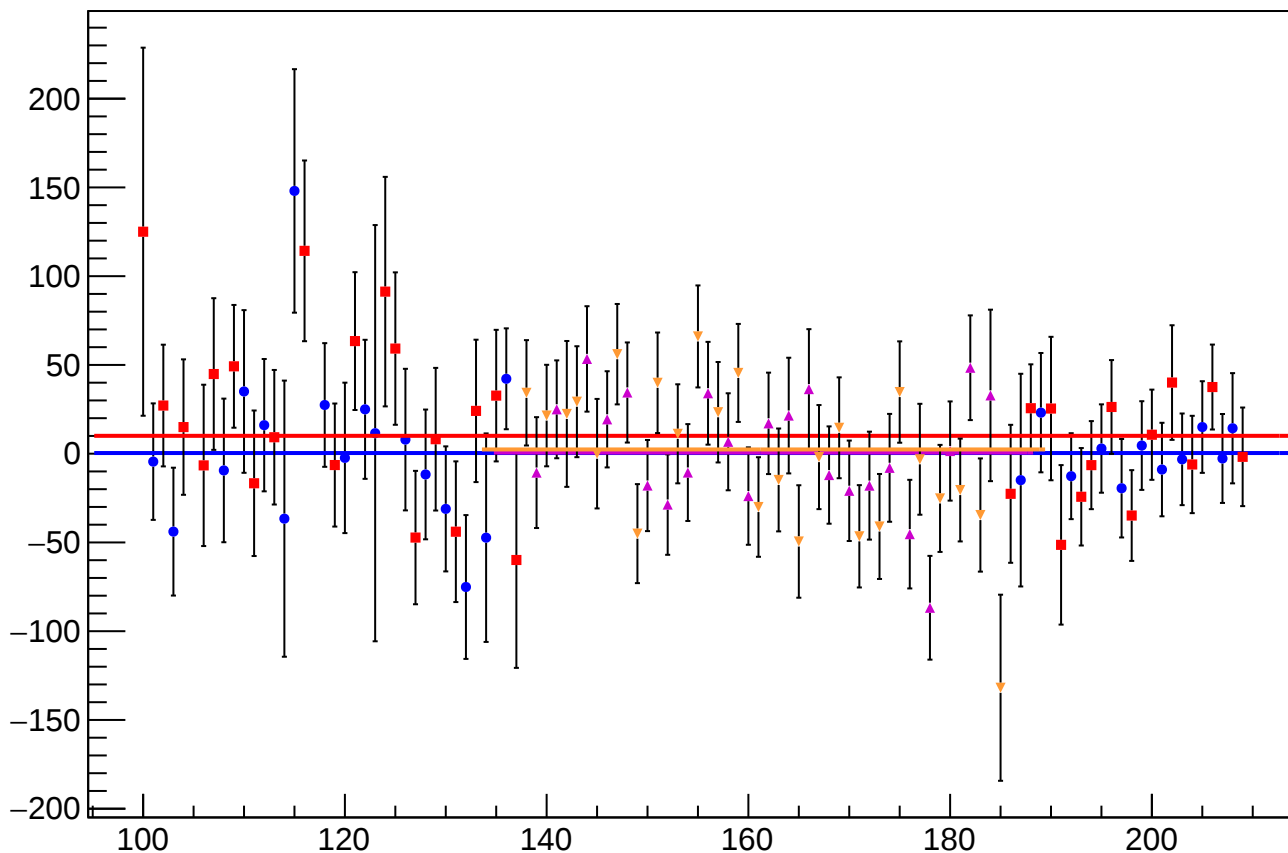
Right: 171.296 $\pm$ 0.023 χ^2/NDF : 4880416.4/59

In: 177.127 $\pm$ 0.023 χ^2/NDF : 3693081.9/50

Out: 185.029 $\pm$ 0.024 χ^2/NDF : 4907984.5/56

All: 181.029 $\pm$ 0.017 χ^2/NDF : 8658162.8/107

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 0.369 ± 6.353 $\chi^2/\text{NDF}: 17.5/27$

Left Out: 2.390 ± 5.980 $\chi^2/\text{NDF}: 39.1/24$

Right Out: 10.063 ± 6.059 $\chi^2/\text{NDF}: 30.5/31$

Left In: 0.641 ± 6.091 $\chi^2/\text{NDF}: 27.3/22$

Left: 1.531 ± 4.267 $\chi^2/\text{NDF}: 66.5/47$

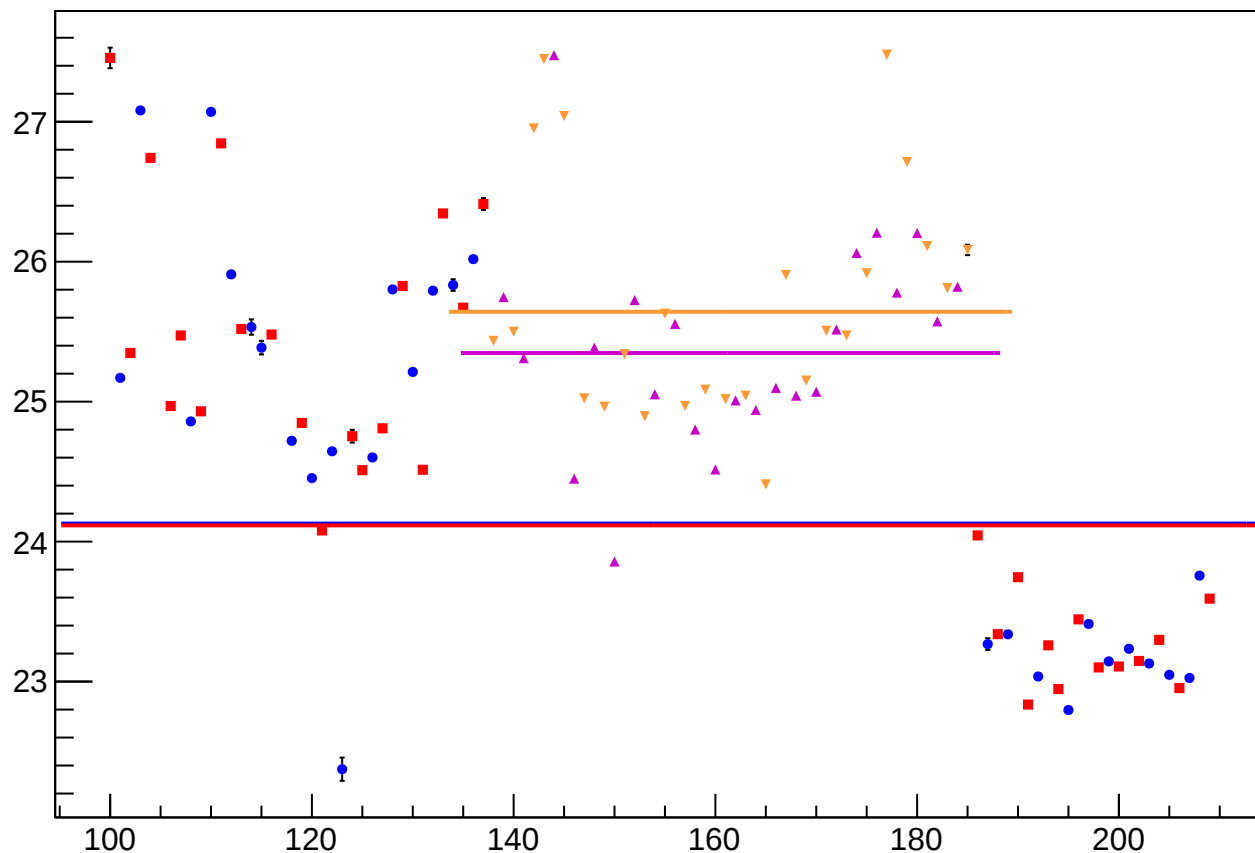
Right: 5.446 ± 4.385 $\chi^2/\text{NDF}: 49.2/59$

In: 0.511 ± 4.397 $\chi^2/\text{NDF}: 44.8/50$

Out: 6.176 ± 4.256 $\chi^2/\text{NDF}: 70.4/56$

All: 3.436 ± 3.058 $\chi^2/\text{NDF}: 116.1/107$

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 24.129 $\pm$ 0.004 χ^2 /NDF: 80732.9/27

Left Out: 25.642 $\pm$ 0.004 χ^2 /NDF:34802.2/24

Right Out: 24.116 $\pm$ 0.004 χ^2 /NDF: 76102.3/31

Left In: 25.347 $\pm$ 0.004 χ^2 /NDF:29389.5/22

Left: 25.498 $\pm$ 0.003 χ^2 /NDF: 66578.5/47

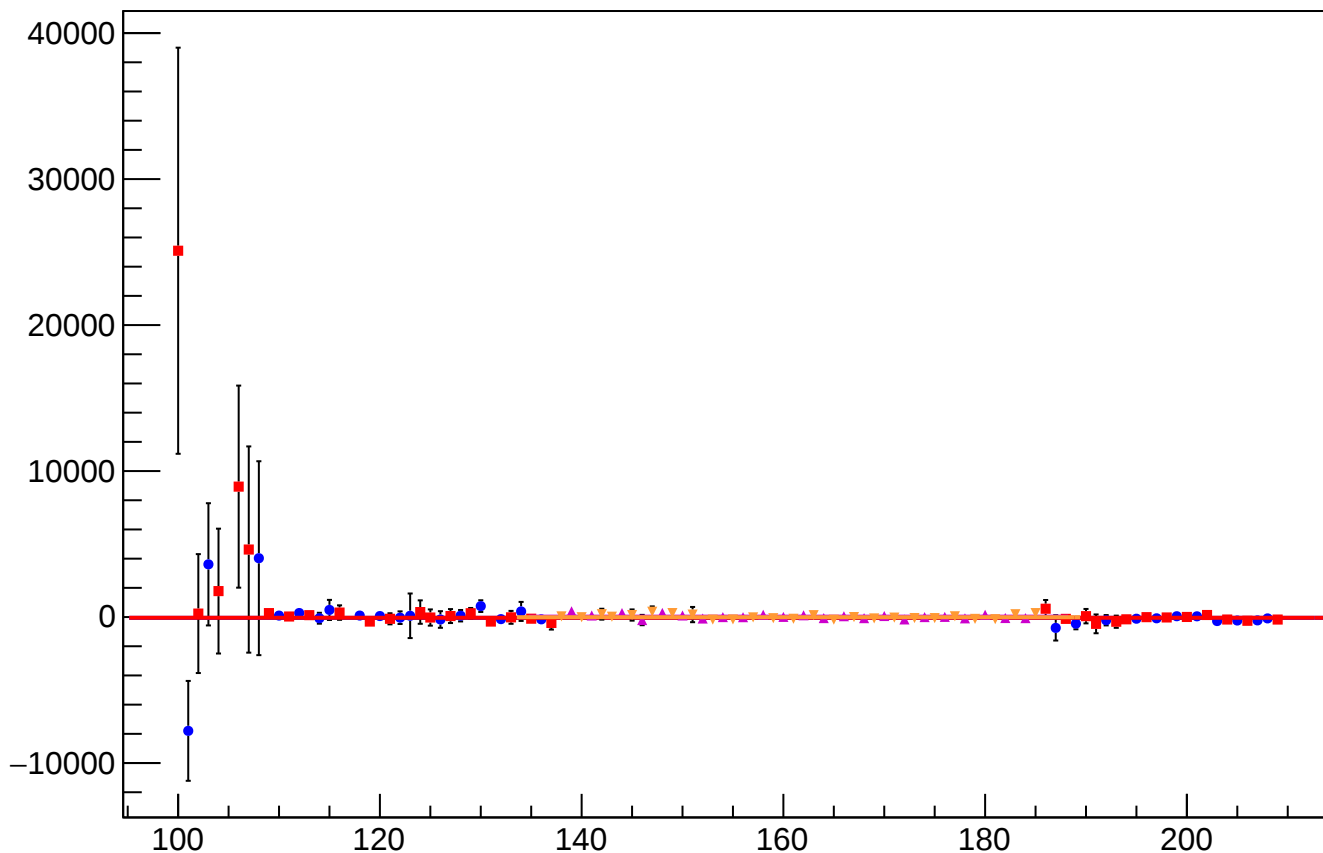
Right: 24.122 $\pm$ 0.003 χ^2 /NDF: 156839.4/59

In: 24.764 $\pm$ 0.003 χ^2 /NDF:148465.5/50

Out: 24.889 $\pm$ 0.003 χ^2 /NDF:175195.3/56

All: 24.828 $\pm$ 0.002 χ^2 /NDF: 324500.9/107

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: -49.054 $\pm$ 48.662 χ^2 /NDF: 18.2/31

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

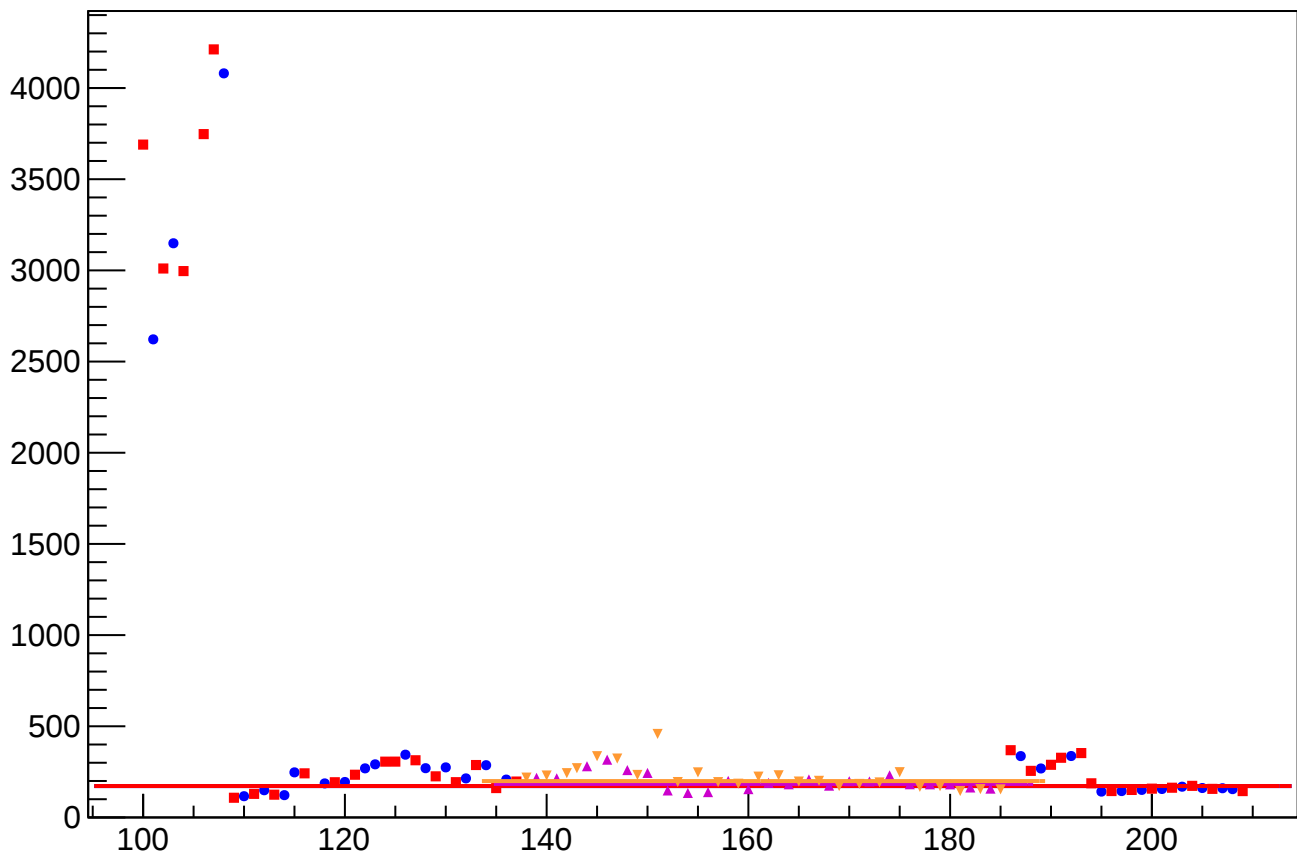
Right: -52.565 $\pm$ 34.739 χ^2 /NDF: 39.7/59

In: -11.417 $\pm$ 33.730 χ^2 /NDF:30.1/50

Out: -30.088 $\pm$ 34.267 χ^2 /NDF:26.5/56

All: -20.605 $\pm$ 24.038 χ^2 /NDF: 56.8/107

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 171.996 $\pm$ 0.035 χ^2 /NDF: 4505072.6/27

Left Out: 199.438 $\pm$ 0.034 χ^2 /NDF:1877848.7/24

Right Out: 172.311 $\pm$ 0.034 χ^2 /NDF: 5392692.0/31

Left In: 183.805 $\pm$ 0.033 χ^2 /NDF:1412869.6/22

Left: 191.246 $\pm$ 0.024 χ^2 /NDF: 3400676.1/47

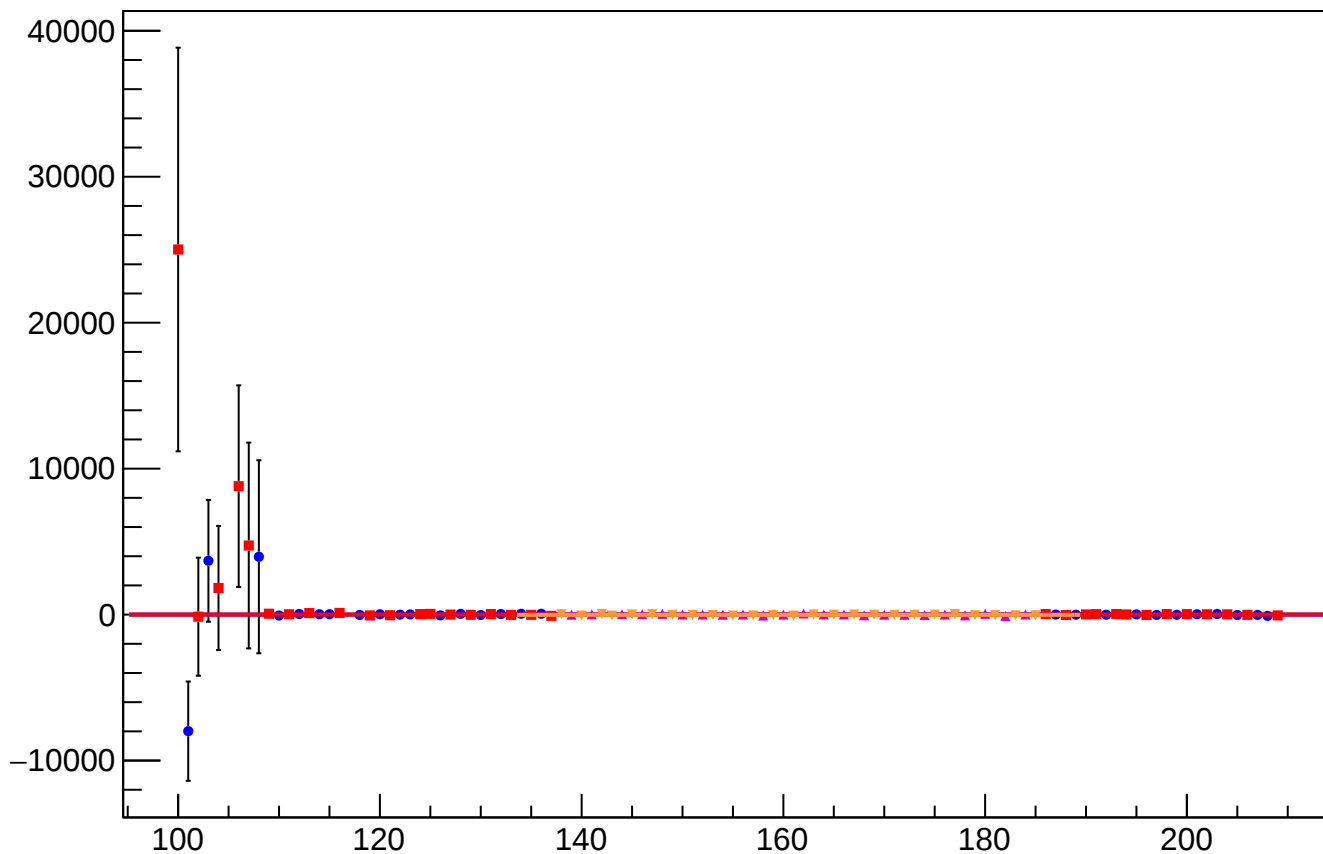
Right: 172.157 $\pm$ 0.025 χ^2 /NDF: 9897805.9/59

In: 178.346 $\pm$ 0.024 χ^2 /NDF:5978882.8/50

Out: 185.986 $\pm$ 0.024 χ^2 /NDF:7583849.6/56

All: 182.106 $\pm$ 0.017 χ^2 /NDF: 13613235.9/100

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -0.456 ± 7.645 χ^2/NDF : 29.5/27

Left Out: -18.118 ± 6.704 χ^2/NDF : 21.7/24

Right Out: 7.445 ± 7.396 χ^2/NDF : 33.9/31

Left In: 1.267 ± 6.908 χ^2/NDF : 32.0/22

Left: -8.716 ± 4.811 χ^2/NDF : 57.8/47

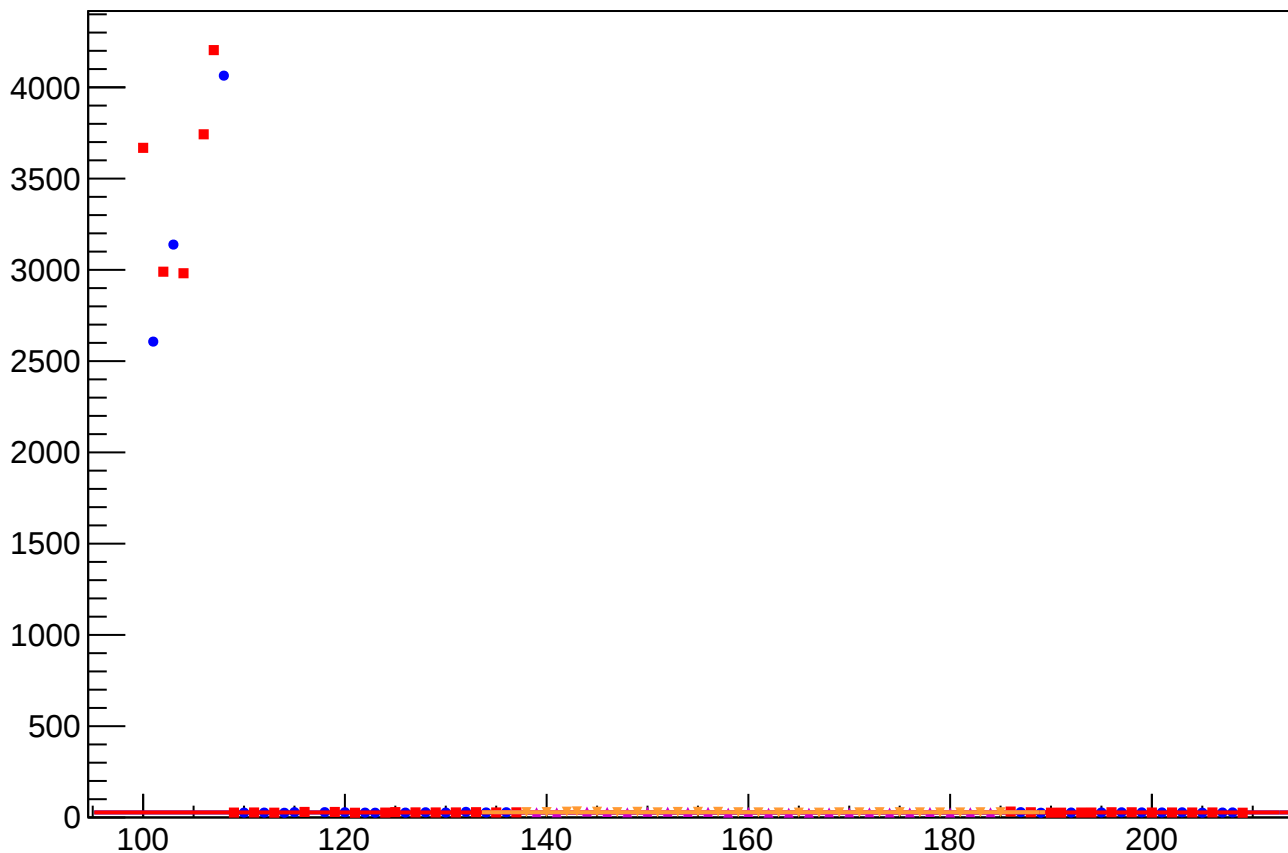
Right: 3.626 ± 5.316 χ^2/NDF : 64.0/59

In: 0.493 ± 5.125 χ^2/NDF : 61.6/50

Out: -6.588 ± 4.967 χ^2/NDF : 62.2/56

All: -3.159 ± 3.567 χ^2/NDF : 124.7/107

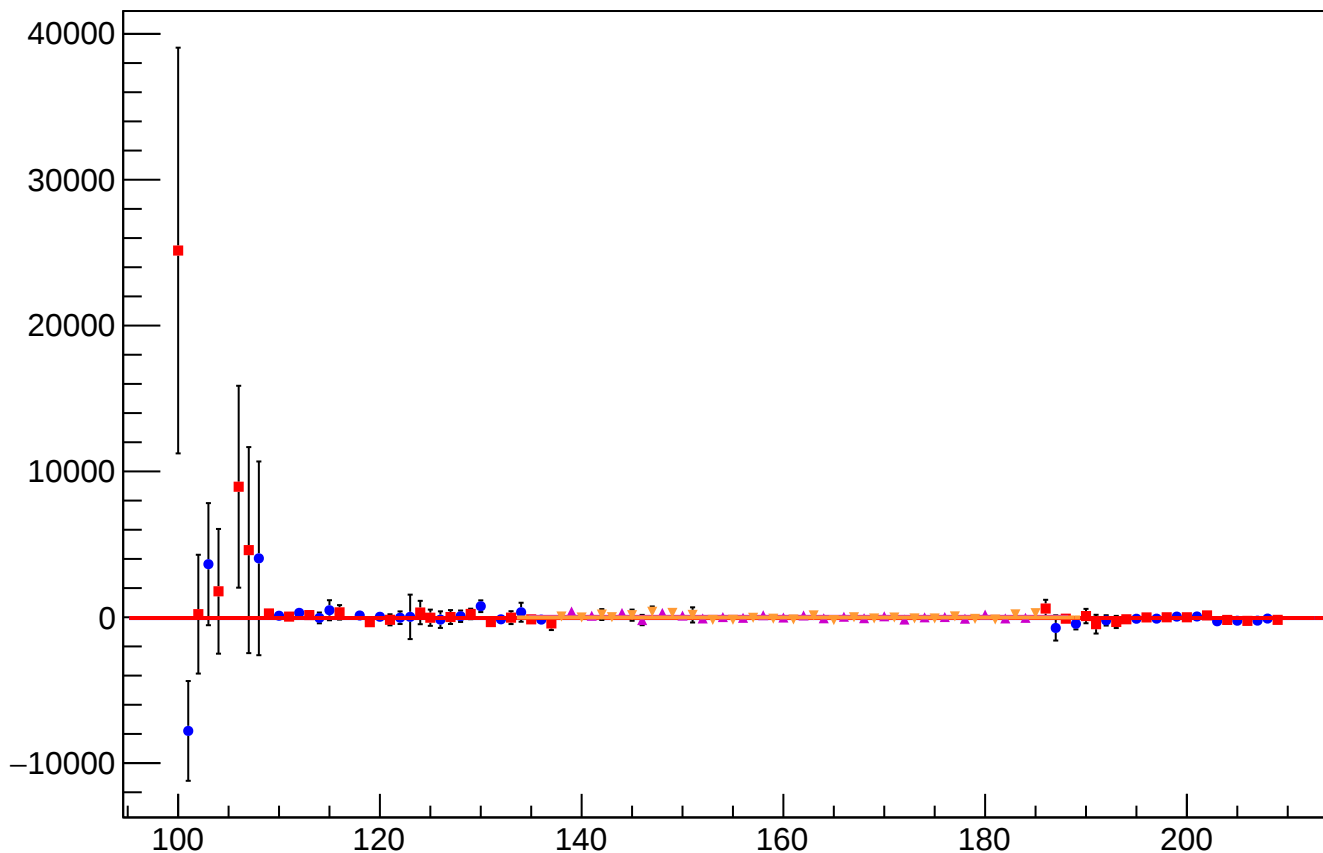
asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



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: 27.493 $\pm$ 0.005 χ^2 /NDF: 3509236.0/31
 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: 27.495 $\pm$ 0.004 χ^2 /NDF: 6549639.8/59
 In: 28.147 $\pm$ 0.004 χ^2 /NDF: 3190391.0/50
 Out: 28.152 $\pm$ 0.004 χ^2 /NDF: 3648662.8/56
 All: 28.150 $\pm$ 0.003 χ^2 /NDF: 6839054.8/107

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: -50.975 $\pm$ 48.521 χ^2 /NDF: 18.9/31

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

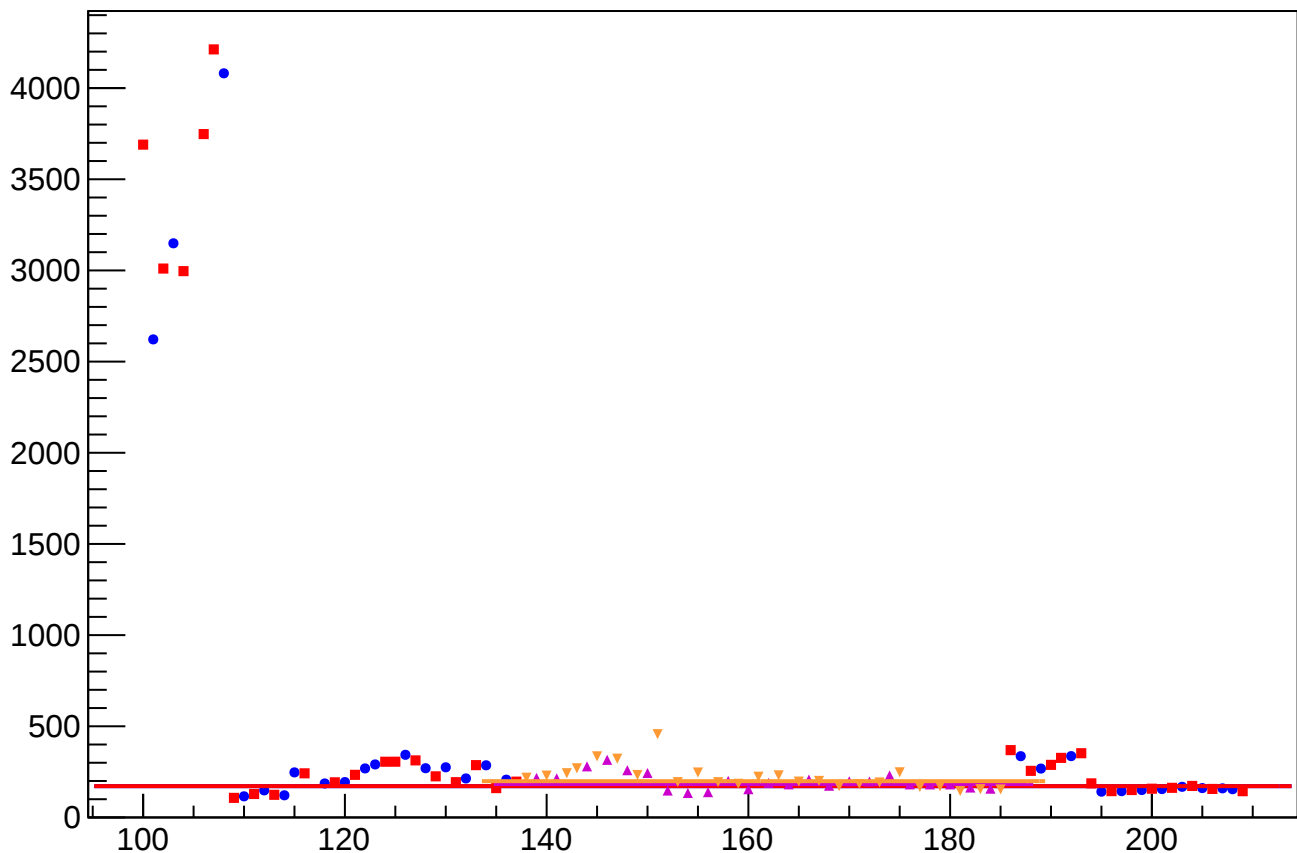
Right: -52.939 $\pm$ 34.635 χ^2 /NDF: 40.6/59

In: -10.789 $\pm$ 33.646 χ^2 /NDF: 30.7/50

Out: -32.286 $\pm$ 34.180 χ^2 /NDF: 28.0/56

All: -21.369 $\pm$ 23.978 χ^2 /NDF: 58.9/107

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 171.417 $\pm$ 0.035 χ^2 /NDF: 4518015.5/27

Left Out: 198.997 $\pm$ 0.034 χ^2 /NDF: 1877636.0/24

Right Out: 171.754 $\pm$ 0.034 χ^2 /NDF: 5410338.2/31

Left In: 183.442 $\pm$ 0.032 χ^2 /NDF: 1412341.8/22

Left: 190.847 $\pm$ 0.023 χ^2 /NDF: 3399302.2/47

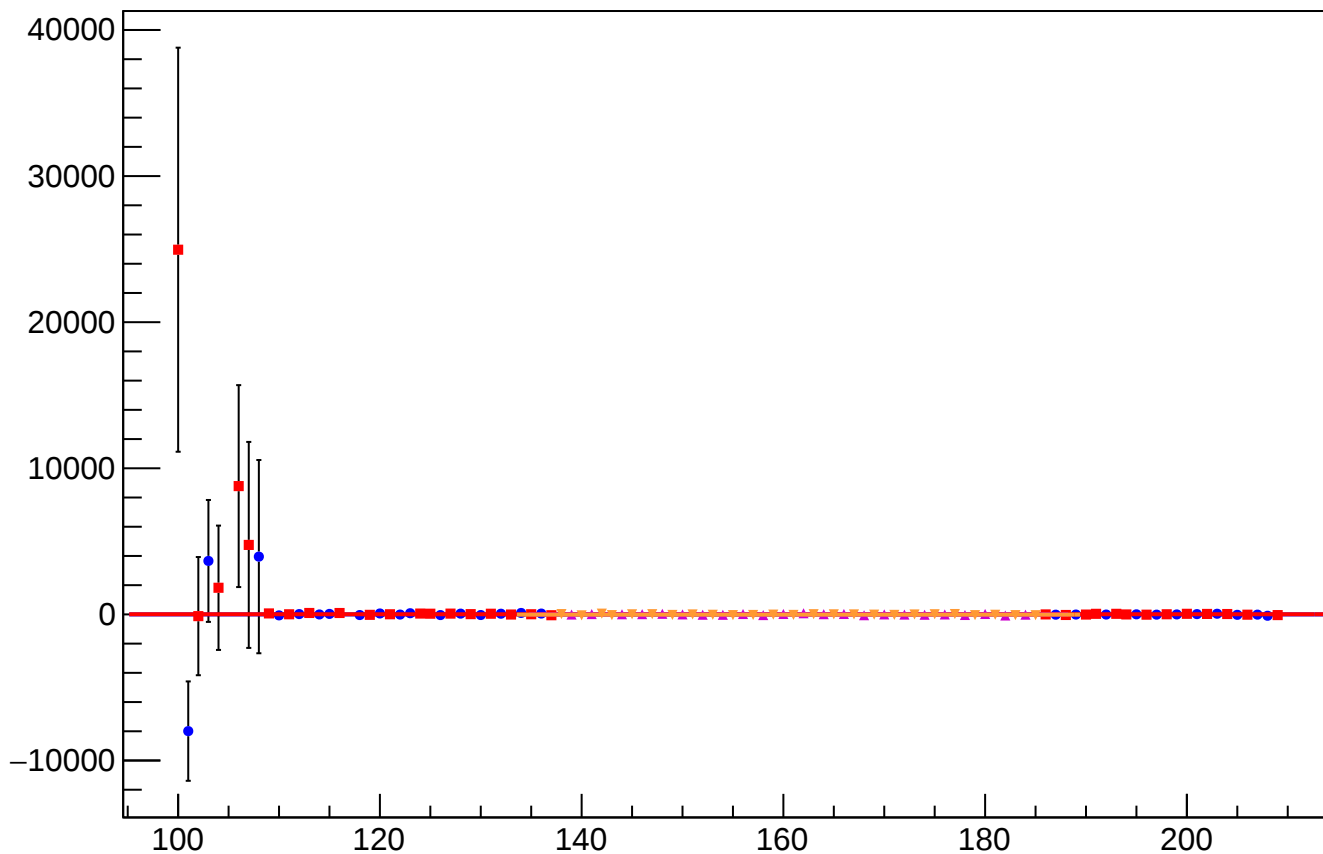
Right: 171.589 $\pm$ 0.024 χ^2 /NDF: 9928401.0/59

In: 177.876 $\pm$ 0.024 χ^2 /NDF: 5993863.6/50

Out: 185.478 $\pm$ 0.024 χ^2 /NDF: 7605588.2/56

All: 181.617 $\pm$ 0.017 χ^2 /NDF: 13649700.5/10

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: 10.657 ± 7.381 χ^2/NDF : 30.1/31

Left In: -0.498 ± 6.937 χ^2/NDF : 26.1/22

Left: -8.392 ± 4.831 χ^2/NDF : 45.1/47

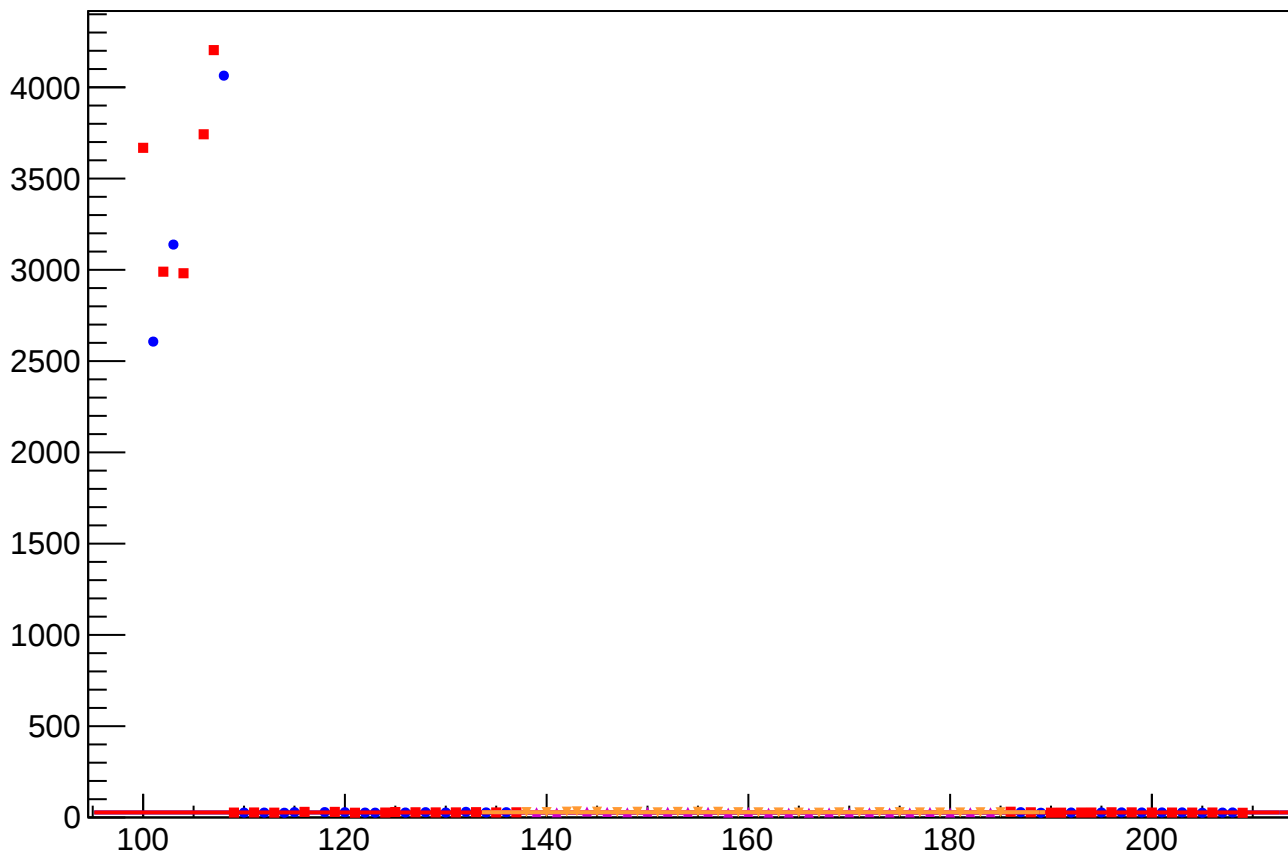
Right: 4.557 ± 5.302 χ^2/NDF : 65.6/59

In: -1.154 ± 5.130 χ^2/NDF : 60.2/50

Out: -3.800 ± 4.974 χ^2/NDF : 53.6/56

All: -2.517 ± 3.571 χ^2/NDF : 114.0/107

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: 27.435 $\pm$ 0.005 χ^2 /NDF: 3512090.7/31

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

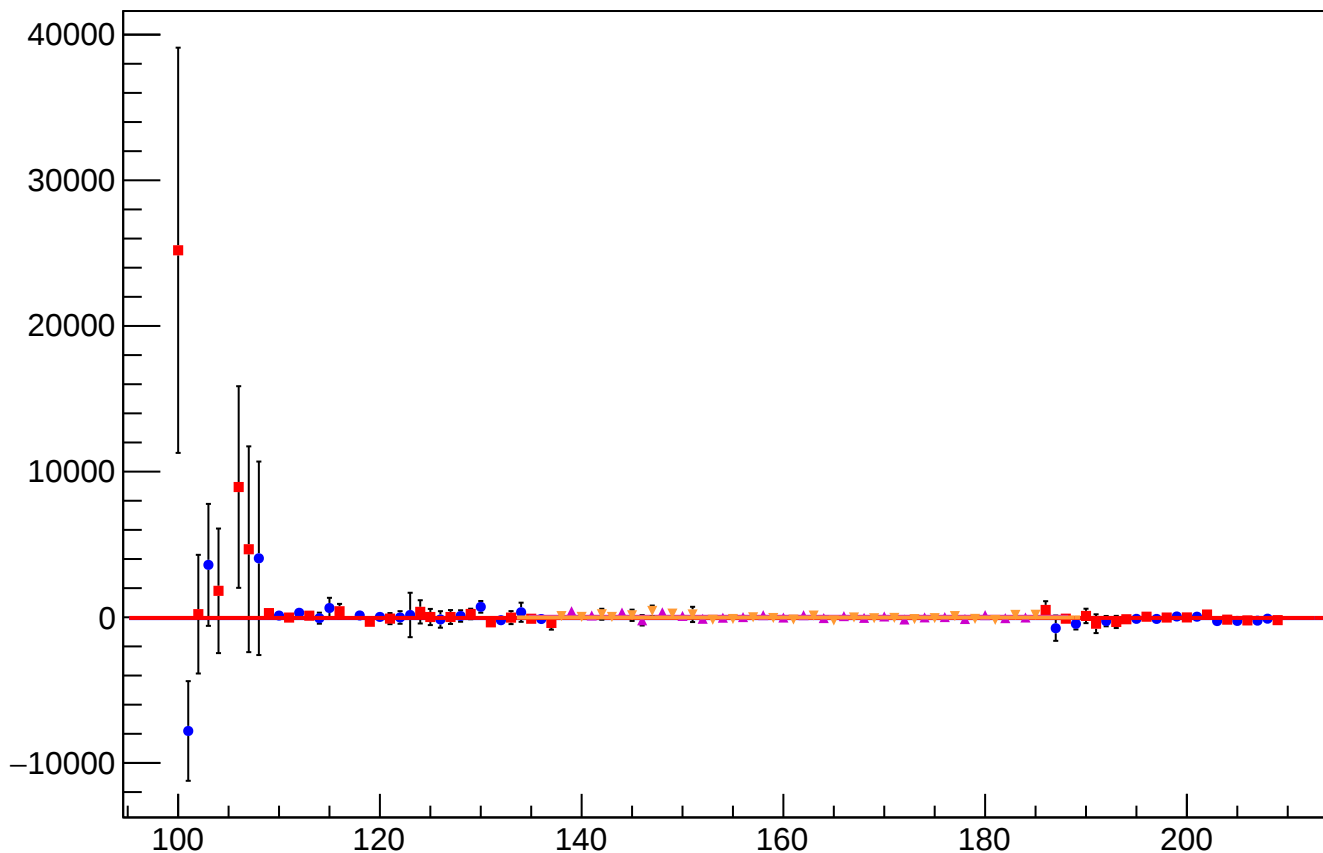
Right: 27.422 $\pm$ 0.004 χ^2 /NDF: 6558530.5/59

In: 28.167 $\pm$ 0.004 χ^2 /NDF:3211101.2/50

Out: 28.188 $\pm$ 0.004 χ^2 /NDF:3672340.5/56

All: 28.178 $\pm$ 0.003 χ^2 /NDF: 6883458.3/107

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: -44.023 ± 48.893 $\chi^2/\text{NDF}: 18.2/31$

Left In: 31.477 ± 46.483 $\chi^2/\text{NDF}: 7.8/22$

Left: 9.830 ± 33.637 $\chi^2/\text{NDF}: 16.4/47$

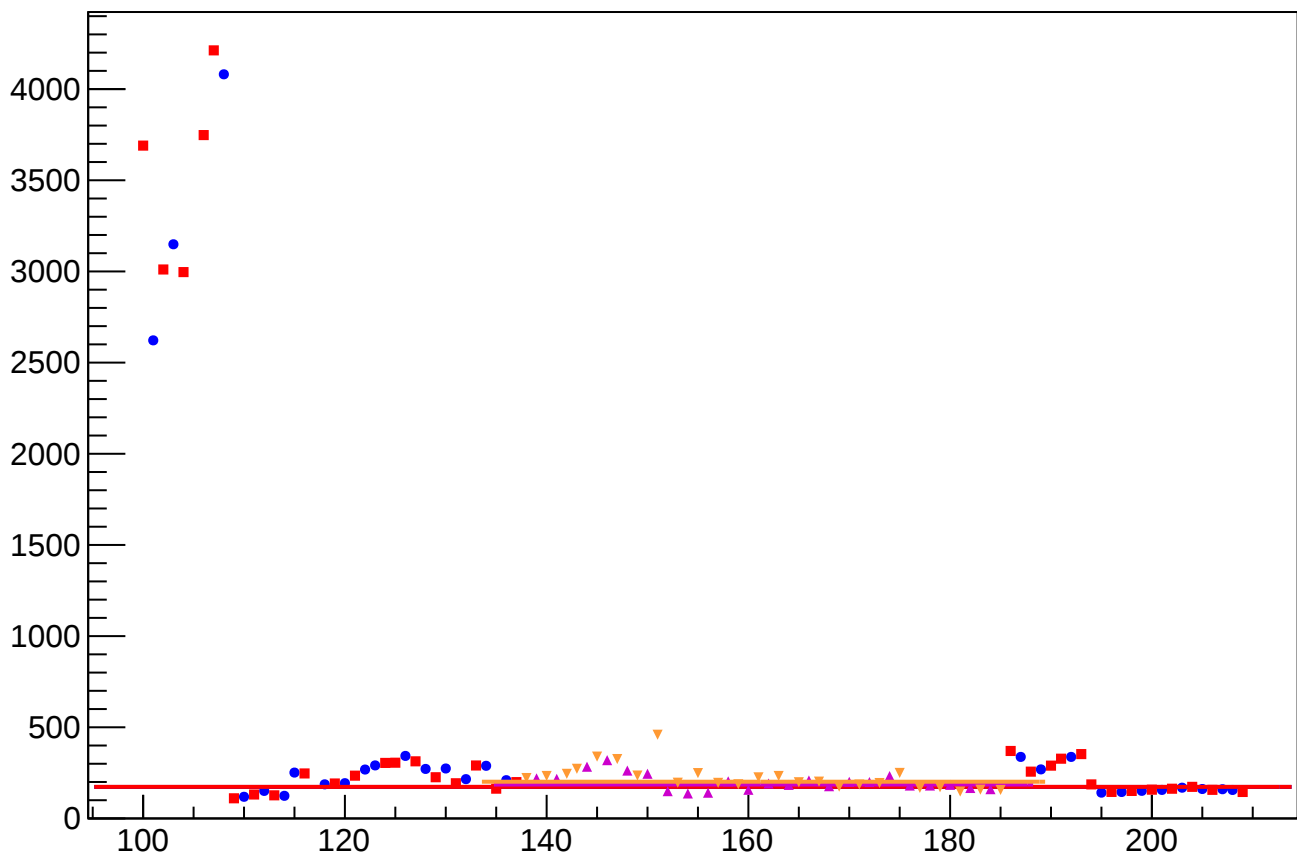
Right: -50.399 ± 34.887 $\chi^2/\text{NDF}: 40.2/59$

In: -9.727 ± 33.979 $\chi^2/\text{NDF}: 31.5/50$

Out: -28.946 ± 34.517 $\chi^2/\text{NDF}: 26.5/56$

All: -19.185 ± 24.215 $\chi^2/\text{NDF}: 58.2/107$

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: 173.290 $\pm$ 0.035 χ^2/NDF : 5351218.0/31

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

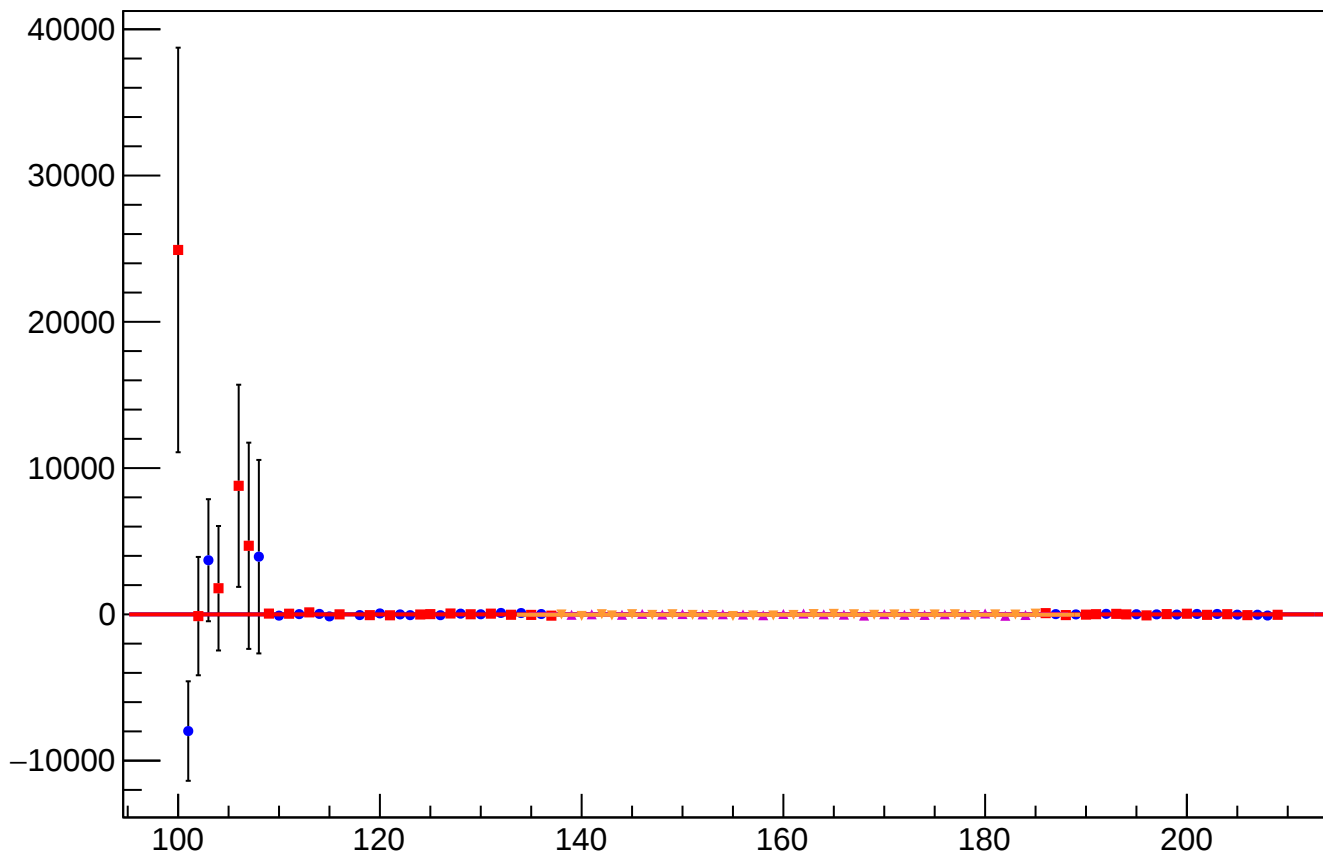
Right: 173.002 $\pm$ 0.025 χ^2/NDF : 9838344.1/59

In: 179.743 $\pm$ 0.024 χ^2/NDF : 5942693.1/50

Out: 187.442 $\pm$ 0.024 χ^2/NDF : 7540158.7/56

All: 183.532 $\pm$ 0.017 χ^2/NDF : 13533385.3/10

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: -0.960 ± 9.010 $\chi^2/\text{NDF}: 34.9/31$

Left In: -5.924 ± 8.340 $\chi^2/\text{NDF}: 21.0/22$

Left: -15.326 ± 5.802 $\chi^2/\text{NDF}: 48.4/47$

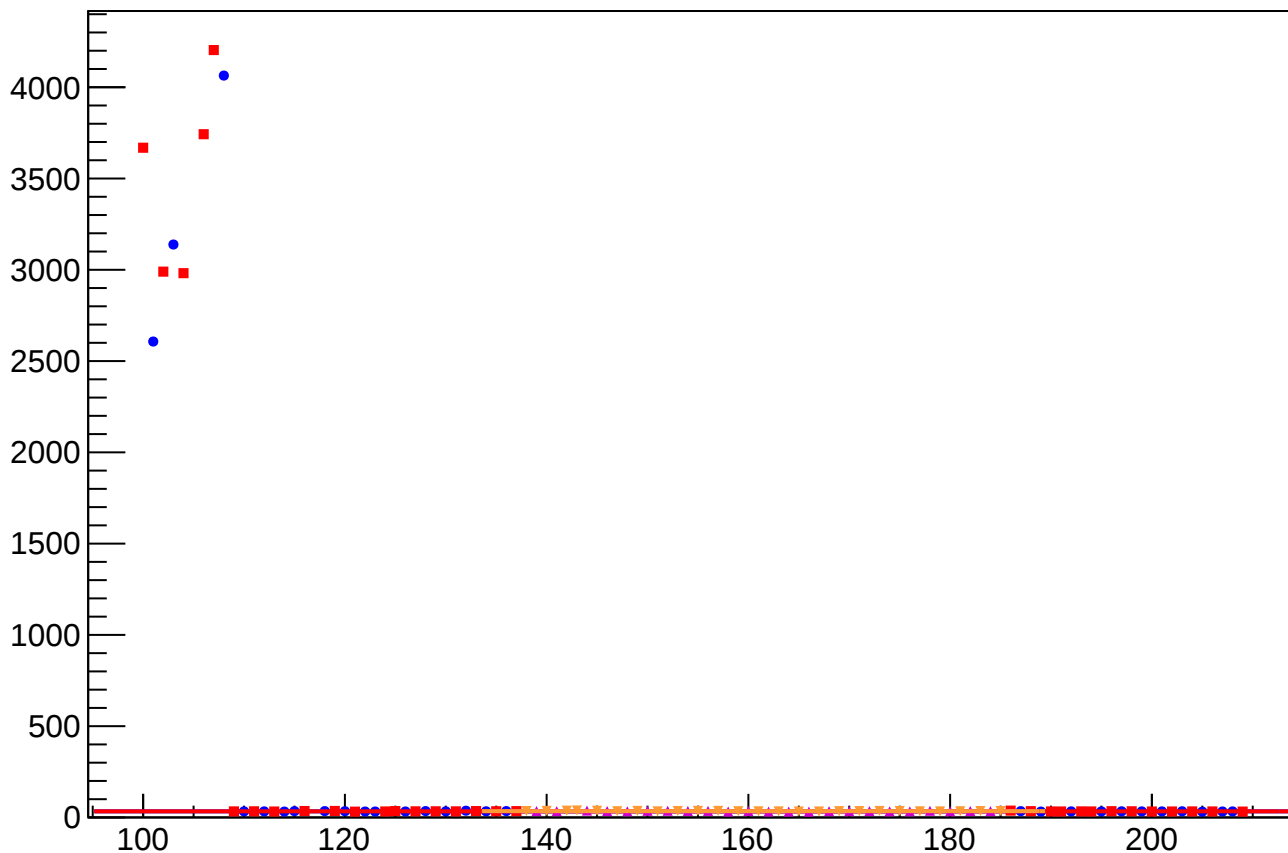
Right: 0.338 ± 6.471 $\chi^2/\text{NDF}: 61.7/59$

In: -2.516 ± 6.209 $\chi^2/\text{NDF}: 48.1/50$

Out: -13.814 ± 6.014 $\chi^2/\text{NDF}: 63.4/56$

All: -8.346 ± 4.320 $\chi^2/\text{NDF}: 113.3/107$

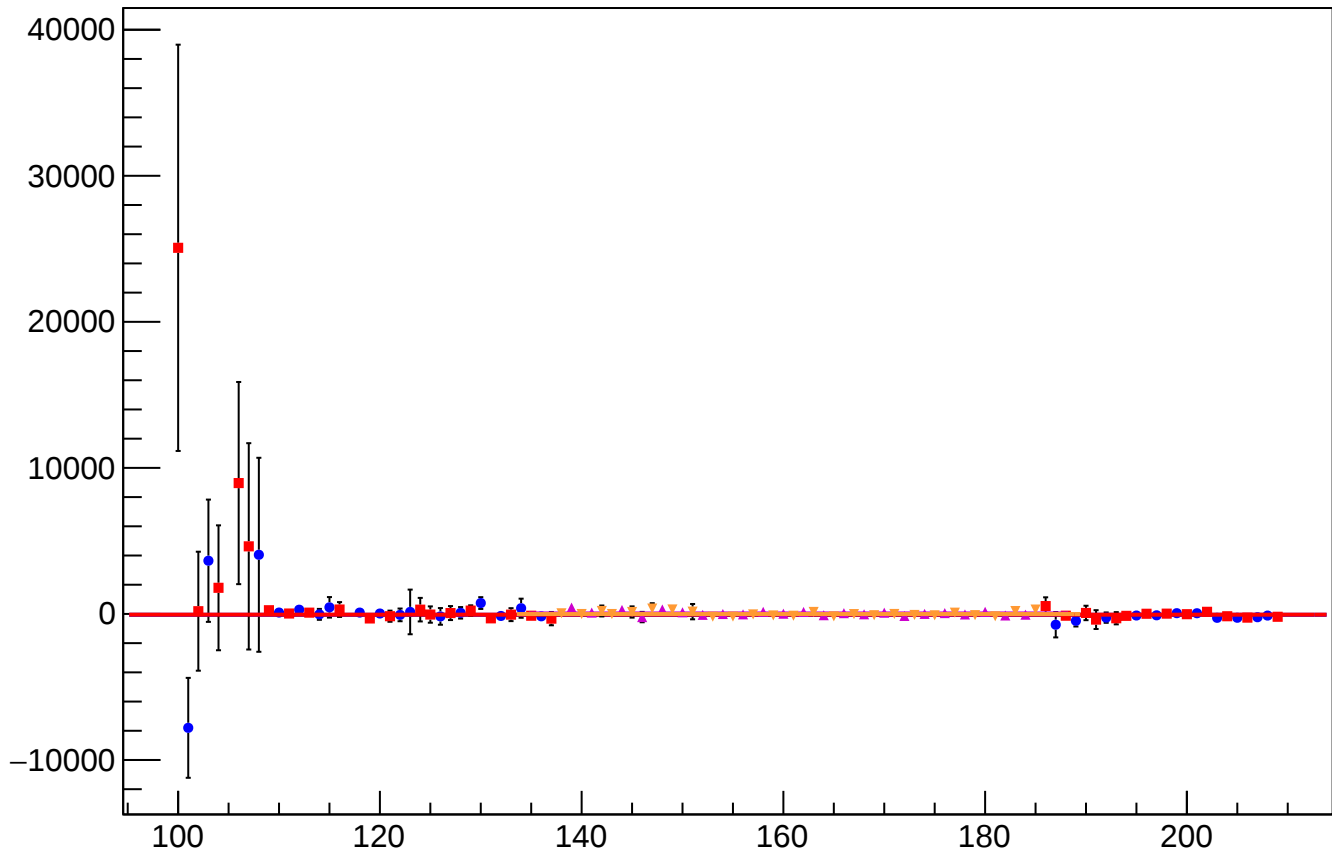
asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 33.463 $\pm$ 0.007 χ^2 /NDF: 3018812.2/27
 Left Out: 34.617 $\pm$ 0.006 χ^2 /NDF: 57868.4/24
 Right Out: 33.537 $\pm$ 0.006 χ^2 /NDF: 3470499.2/31
 Left In: 34.682 $\pm$ 0.006 χ^2 /NDF: 59834.3/22

Left: 34.649 $\pm$ 0.004 χ^2 /NDF: 117764.0/47
 Right: 33.502 $\pm$ 0.005 χ^2 /NDF: 6489377.2/59
 In: 34.139 $\pm$ 0.004 χ^2 /NDF: 3097679.6/50
 Out: 34.136 $\pm$ 0.004 χ^2 /NDF: 3544302.0/56
 All: 34.137 $\pm$ 0.003 χ^2 /NDF: 6641981.8/107

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -61.280 ± 49.649 χ^2/NDF : 21.6/27

Left Out: -7.558 ± 48.662 χ^2/NDF : 8.8/24

Right Out: -49.843 ± 48.703 χ^2/NDF : 17.0/31

Left In: 34.977 ± 46.421 χ^2/NDF : 7.1/22

Left: 14.712 ± 33.589 χ^2/NDF : 16.3/47

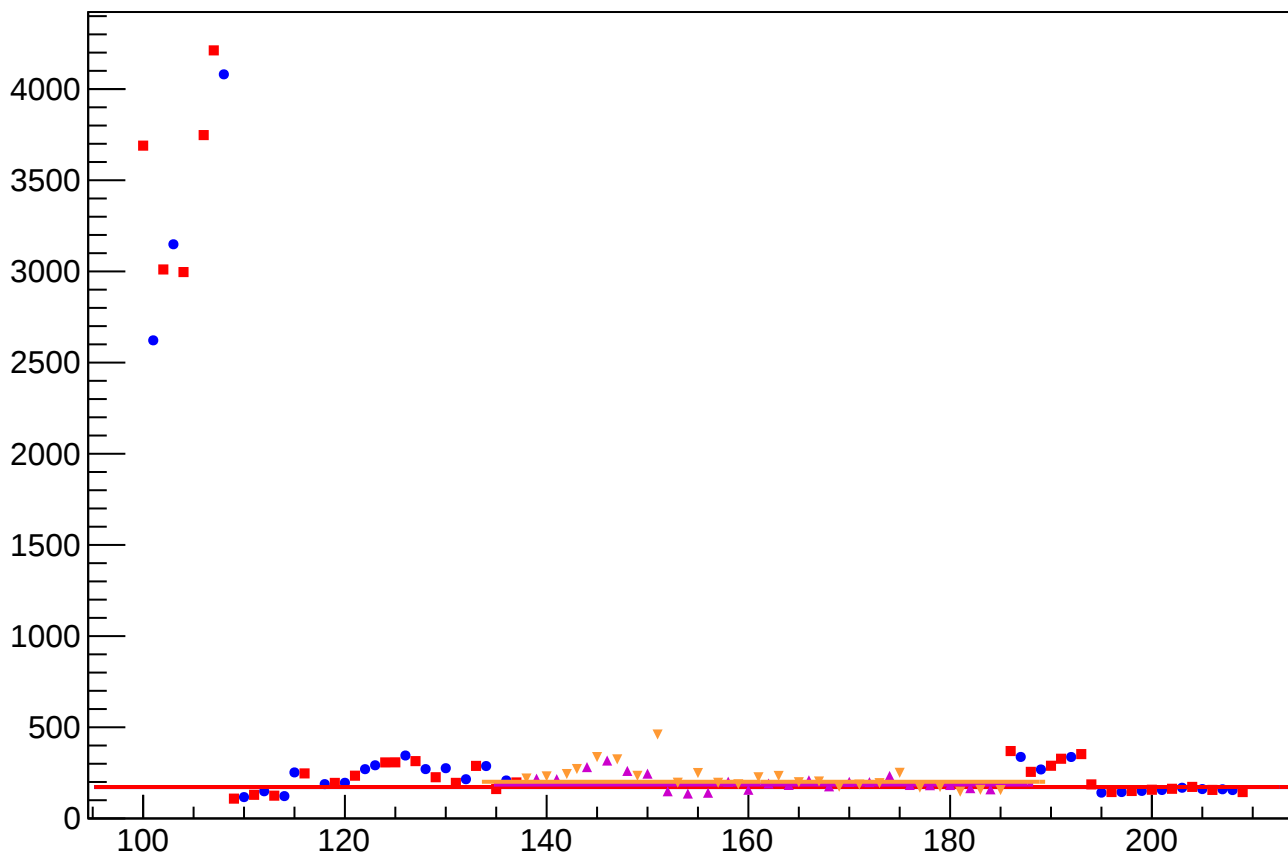
Right: -55.452 ± 34.768 χ^2/NDF : 38.7/59

In: -9.921 ± 33.908 χ^2/NDF : 30.8/50

Out: -28.683 ± 34.424 χ^2/NDF : 26.2/56

All: -19.160 ± 24.157 χ^2/NDF : 57.1/107

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 172.101 $\pm$ 0.035 χ^2 /NDF: 4515596.9/27

Left Out: 201.198 $\pm$ 0.034 χ^2 /NDF:1848437.4/24

Right Out: 172.447 $\pm$ 0.034 χ^2 /NDF: 5398994.8/31

Left In: 185.627 $\pm$ 0.033 χ^2 /NDF:1371411.2/22

Left: 193.046 $\pm$ 0.024 χ^2 /NDF: 3327061.1/47

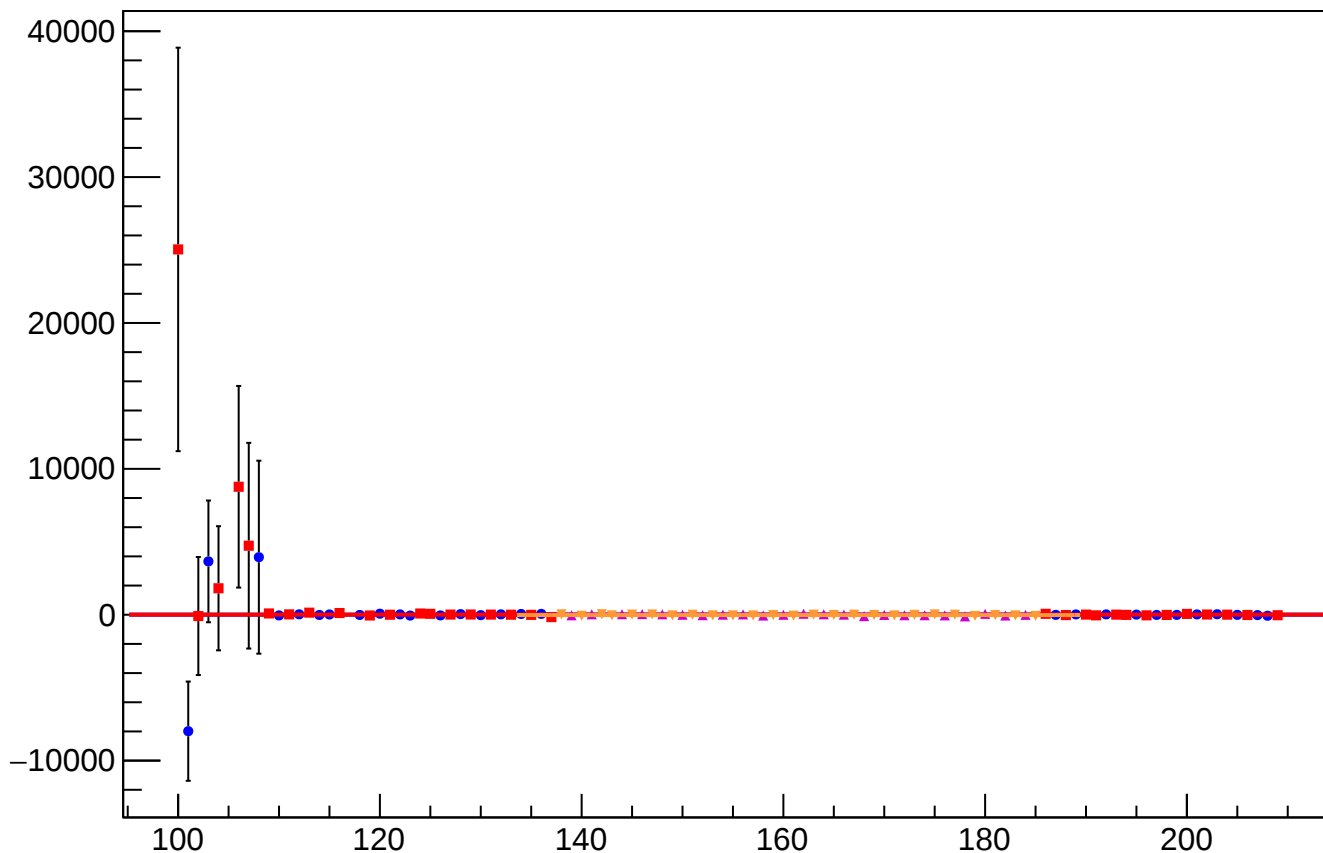
Right: 172.277 $\pm$ 0.025 χ^2 /NDF: 9914641.2/59

In: 179.318 $\pm$ 0.024 χ^2 /NDF:5966218.8/50

Out: 186.834 $\pm$ 0.024 χ^2 /NDF:7596240.8/56

All: 183.020 $\pm$ 0.017 χ^2 /NDF: 13610855.1/10

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: 5.311+/-8.160 χ^2/NDF : 38.3/31

Left In: -6.386+/-7.577 χ^2/NDF :38.7/22

Left: -15.108+/-5.276 χ^2/NDF : 59.6/47

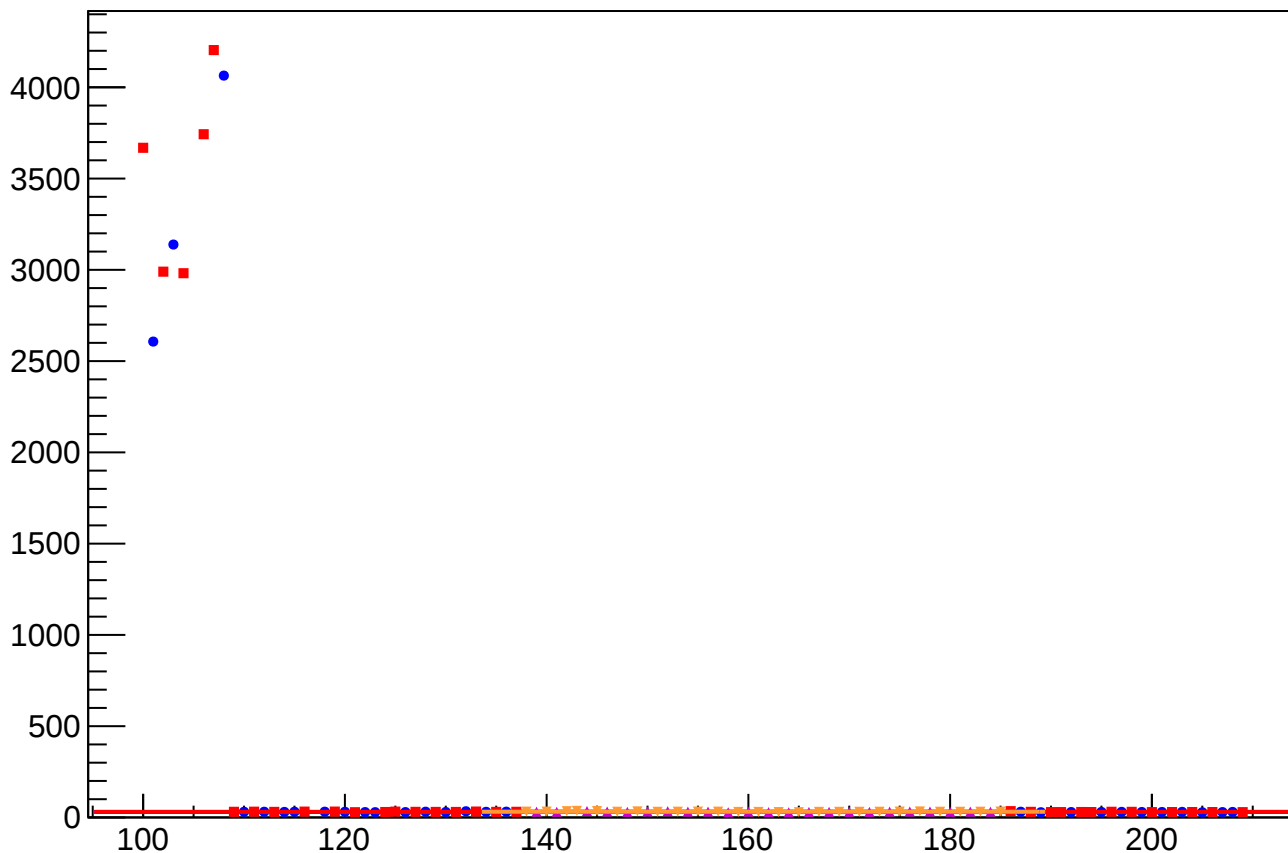
Right: 5.212+/-5.860 χ^2/NDF : 60.1/59

In: -1.244+/-5.632 χ^2/NDF :61.6/50

Out: -10.492+/-5.462 χ^2/NDF :63.4/56

All: -6.010+/-3.921 χ^2/NDF : 126.4/107

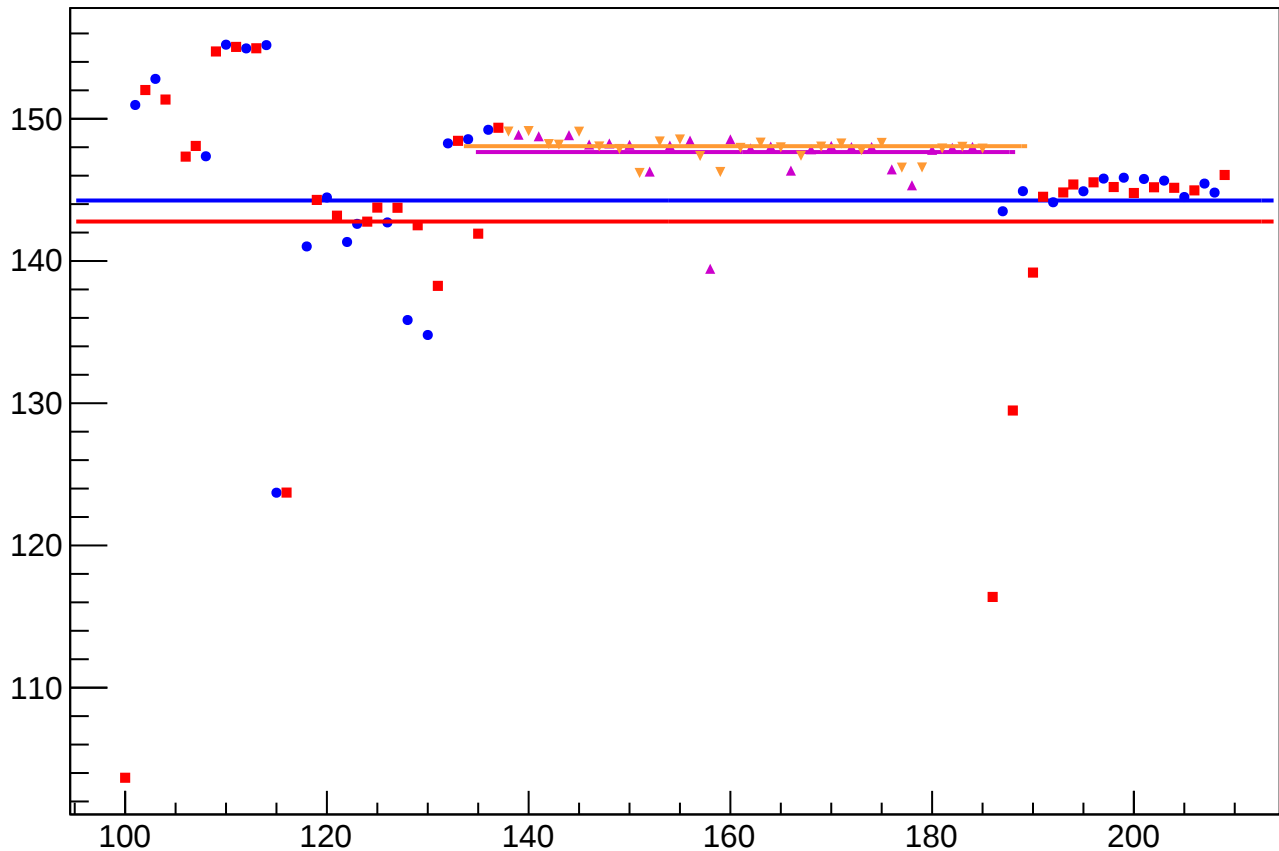
asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 30.289 $\pm$ 0.006 χ^2 /NDF: 3036585.6/27
 Left Out: 31.488 $\pm$ 0.005 χ^2 /NDF:81938.2/24
 Right Out: 30.351 $\pm$ 0.006 χ^2 /NDF: 3487140.2/31
 Left In: 31.475 $\pm$ 0.005 χ^2 /NDF:87797.5/22

Left: 31.482 $\pm$ 0.004 χ^2 /NDF: 169738.8/47
 Right: 30.321 $\pm$ 0.004 χ^2 /NDF: 6523781.9/59
 In: 30.944 $\pm$ 0.004 χ^2 /NDF:3146341.4/50
 Out: 30.979 $\pm$ 0.004 χ^2 /NDF:3590542.2/56
 All: 30.962 $\pm$ 0.003 χ^2 /NDF: 6736921.8/107

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: 142.776+/-0.000 χ^2/NDF : 7430101303.9/31

Left In: 147.660+/-0.000 χ^2/NDF : 343892338.9/22

Left: 147.875+/-0.000 χ^2/NDF : 417177881.5/47

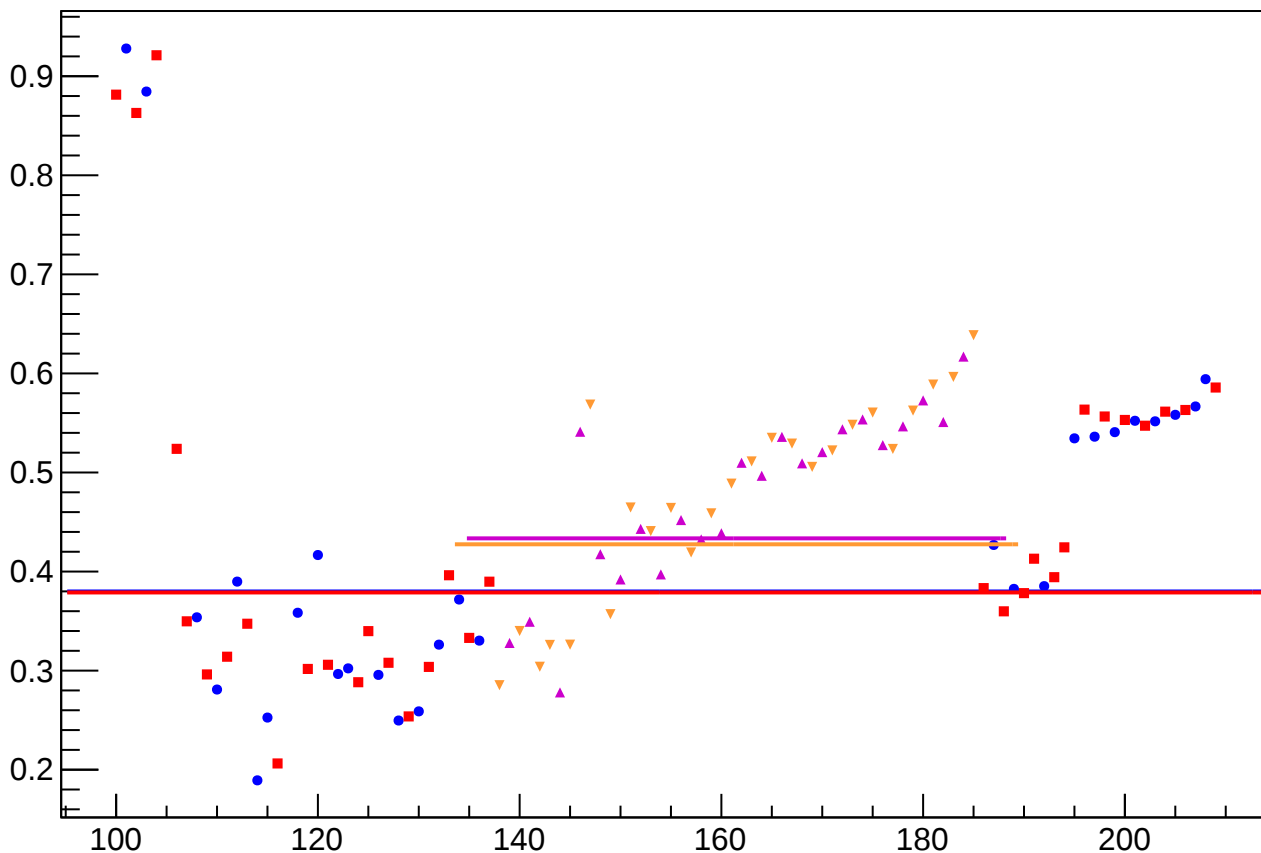
Right: 143.473+/-0.000 χ^2/NDF : 11015197211.6/59

In: 145.970+/-0.000 χ^2/NDF : 4325498698.4/50

Out: 145.393+/-0.000 χ^2/NDF : 8810878728.8/56

All: 145.668+/-0.000 χ^2/NDF : 13166067653.0

yield_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 0.380+/-0.000 χ^2/NDF : 2881670.0/27

Left Out: 0.428+/-0.000 χ^2/NDF :1892802.8/24

Right Out: 0.379+/-0.000 χ^2/NDF : 2712916.8/31

Left In: 0.434+/-0.000 χ^2/NDF :1479367.0/22

Left: 0.430+/-0.000 χ^2/NDF : 3375366.2/47

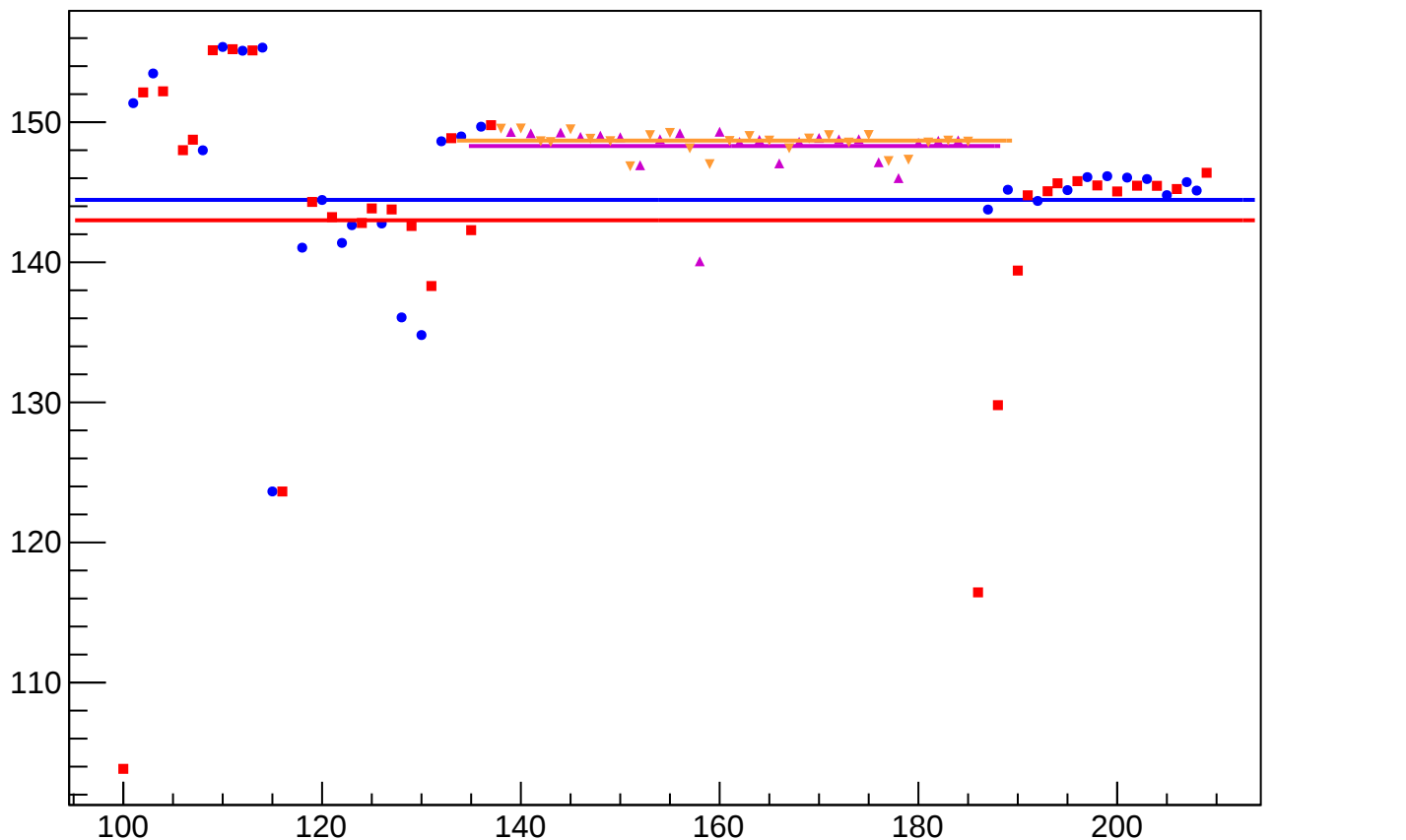
Right: 0.379+/-0.000 χ^2/NDF : 5594673.7/59

In: 0.407+/-0.000 χ^2/NDF :4606039.1/50

Out: 0.403+/-0.000 χ^2/NDF :4827174.3/56

All: 0.405+/-0.000 χ^2/NDF : 9436032.4/107

yield_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: 144.454 $\pm$ 0.000 χ^2 /NDF: 3536155640.1/27

Left Out: 148.687 $\pm$ 0.000 χ^2 /NDF: 52285197.5/24

Right Out: 142.998 $\pm$ 0.000 χ^2 /NDF: 7379890152.7/31

Left In: 148.298 $\pm$ 0.000 χ^2 /NDF: 332527463.6/22

Left: 148.500 $\pm$ 0.000 χ^2 /NDF: 391414535.1/47

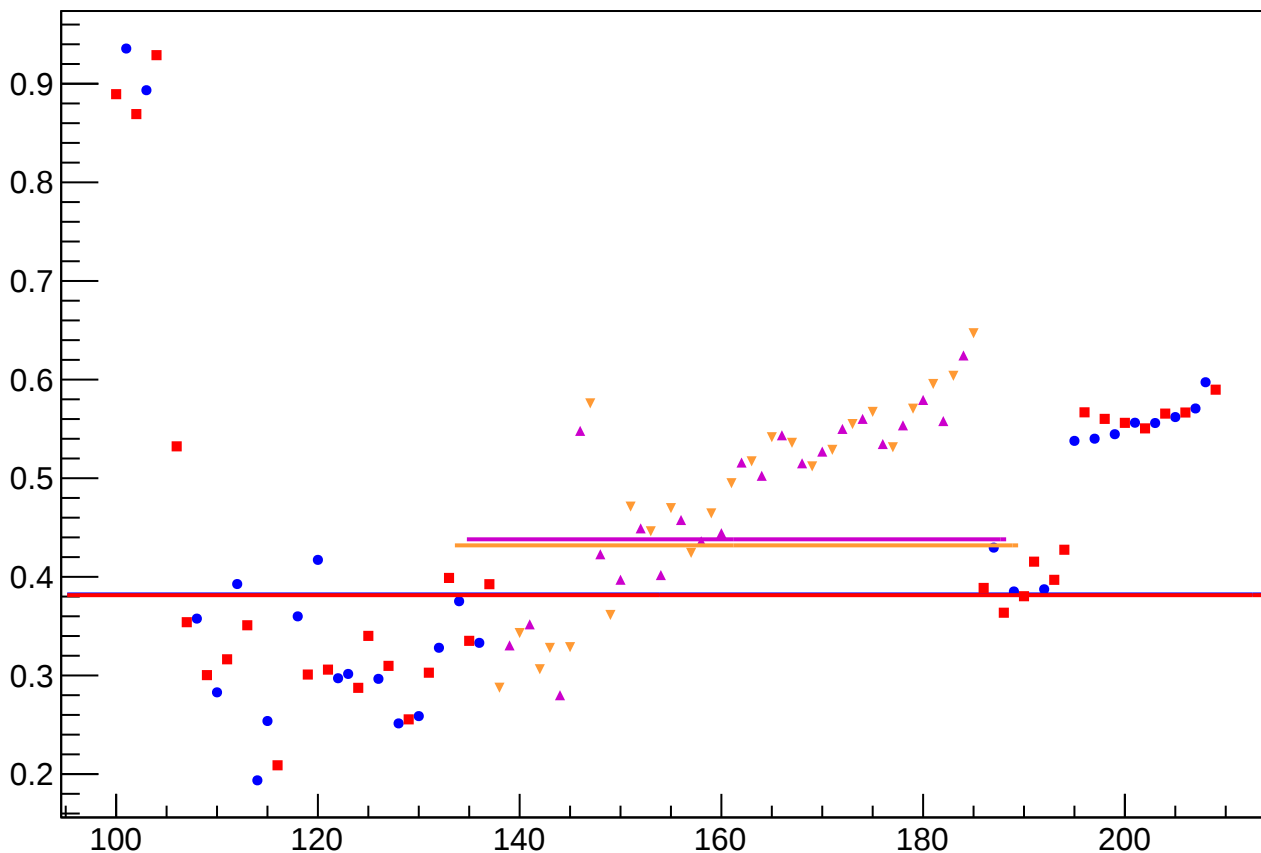
Right: 143.685 $\pm$ 0.000 χ^2 /NDF: 11009660130.2/59

In: 146.381 $\pm$ 0.000 χ^2 /NDF: 4487646032.1/50

Out: 145.797 $\pm$ 0.000 χ^2 /NDF: 8922311463.5/56

All: 146.075 $\pm$ 0.000 χ^2 /NDF: 13439865030.0

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: 0.381 $\pm$ 0.000 χ^2 /NDF: 2716977.2/31

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

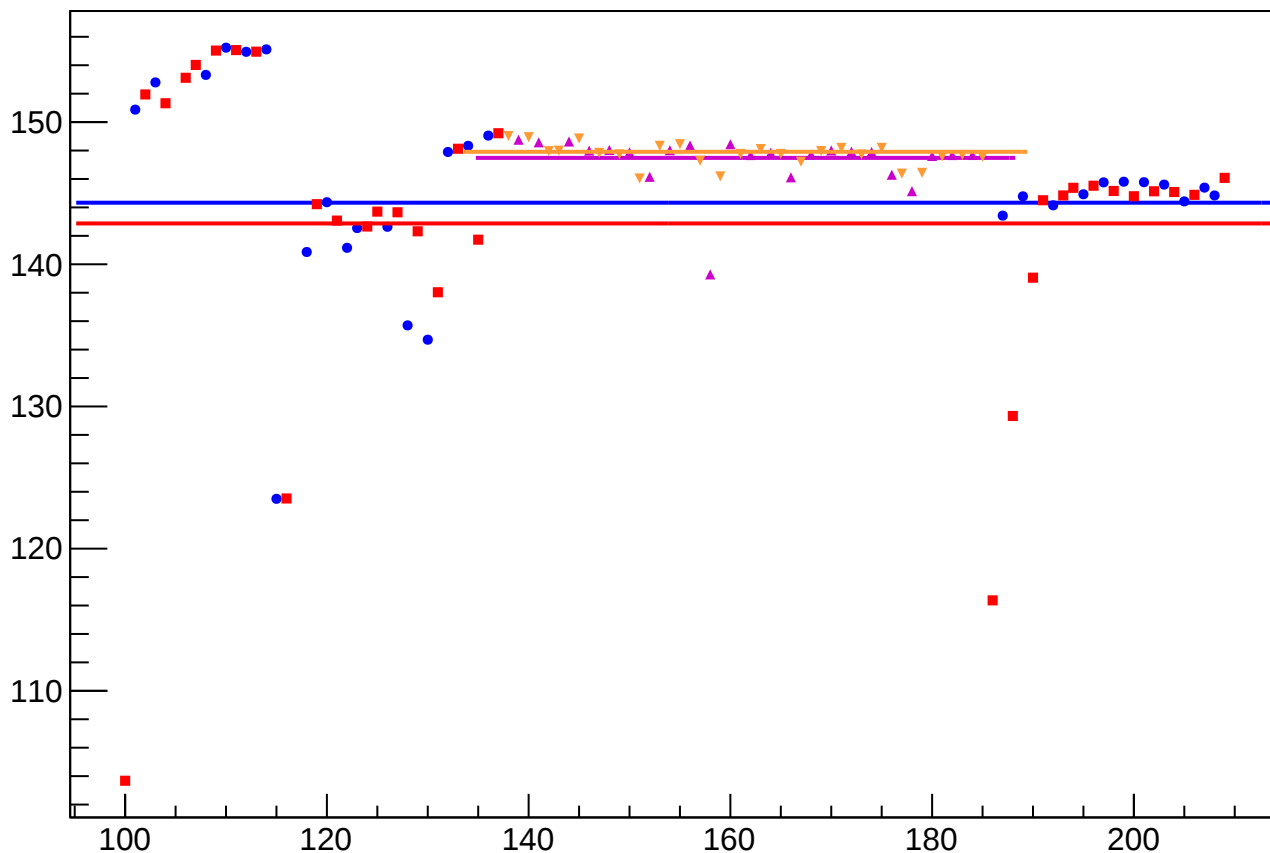
Right: 0.382 $\pm$ 0.000 χ^2 /NDF: 5606392.2/59

In: 0.410 $\pm$ 0.000 χ^2 /NDF:4655839.5/50

Out: 0.406 $\pm$ 0.000 χ^2 /NDF:4876803.9/56

All: 0.408 $\pm$ 0.000 χ^2 /NDF: 9535335.1/107

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: 142.872 $\pm$ 0.000 χ^2 /NDF: 7805974755.5/31

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

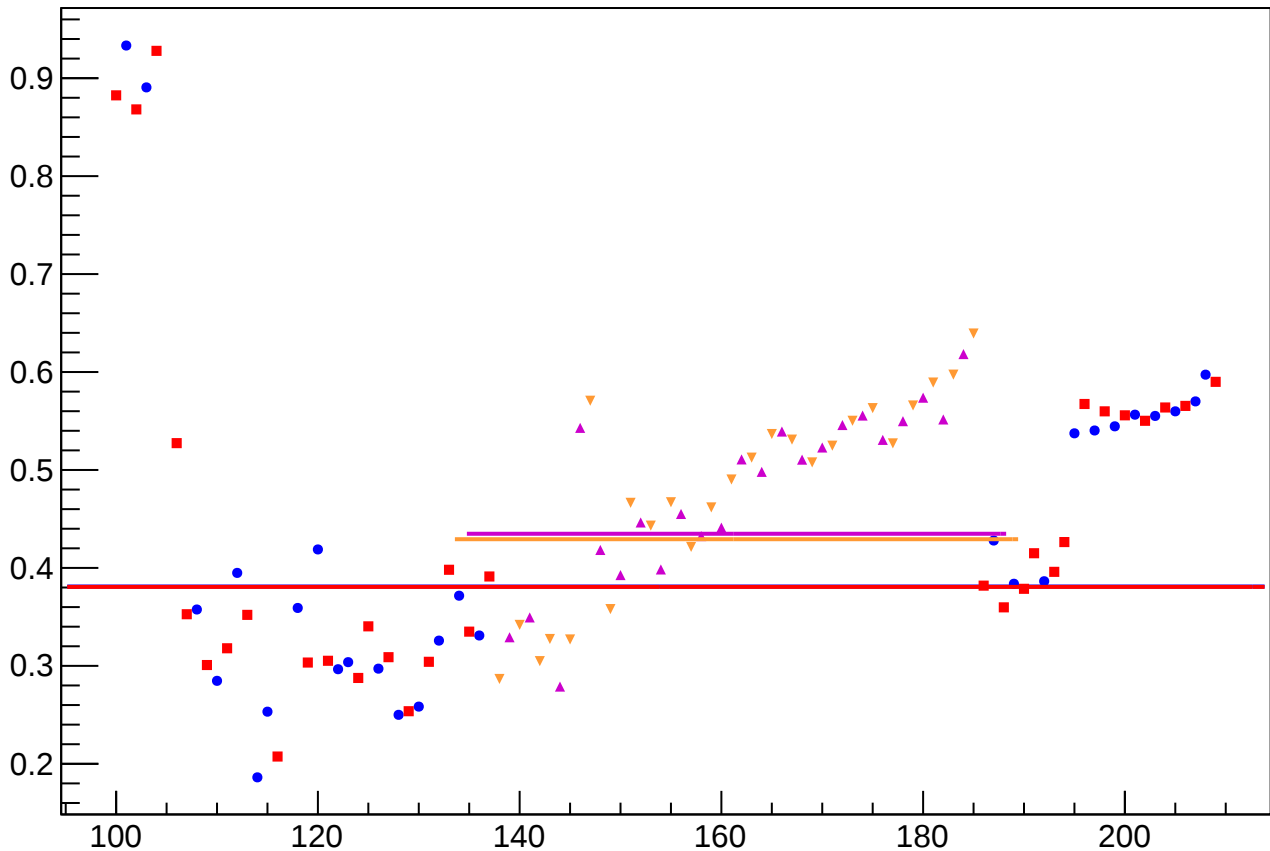
Right: 143.561 $\pm$ 0.000 χ^2 /NDF: 11593665321.4/59

In: 145.920 $\pm$ 0.000 χ^2 /NDF: 4456497115.0/50

Out: 145.363 $\pm$ 0.000 χ^2 /NDF: 9050332409.7/56

All: 145.628 $\pm$ 0.000 χ^2 /NDF: 13534265527.0

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: 0.381+/-0.000 χ^2/NDF : 2719209.4/31

Left In: 0.435+/-0.000 χ^2/NDF :1485915.1/22

Left: 0.432+/-0.000 χ^2/NDF : 3380372.0/47

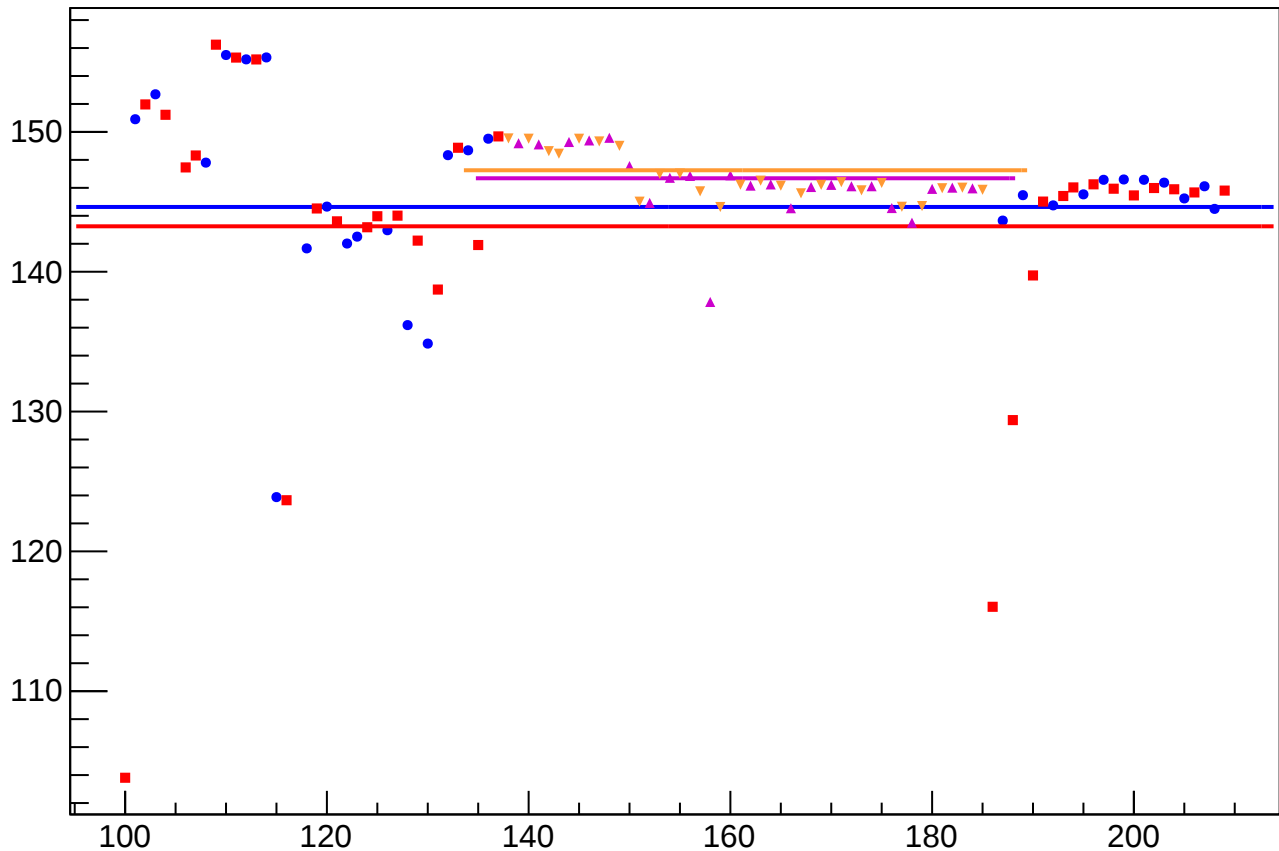
Right: 0.381+/-0.000 χ^2/NDF : 5634921.5/59

In: 0.408+/-0.000 χ^2/NDF :4647242.5/50

Out: 0.405+/-0.000 χ^2/NDF :4831075.3/56

All: 0.406+/-0.000 χ^2/NDF : 9480450.5/107

yield_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: 144.634 $\pm$ 0.000 χ^2 /NDF: 3219145833.8/27

Left Out: 147.257 $\pm$ 0.000 χ^2 /NDF: 261906278.3/24

Right Out: 143.249 $\pm$ 0.000 χ^2 /NDF: 7134983150.6/31

Left In: 146.685 $\pm$ 0.000 χ^2 /NDF: 554922388.0/22

Left: 146.981 $\pm$ 0.000 χ^2 /NDF: 830580031.2/47

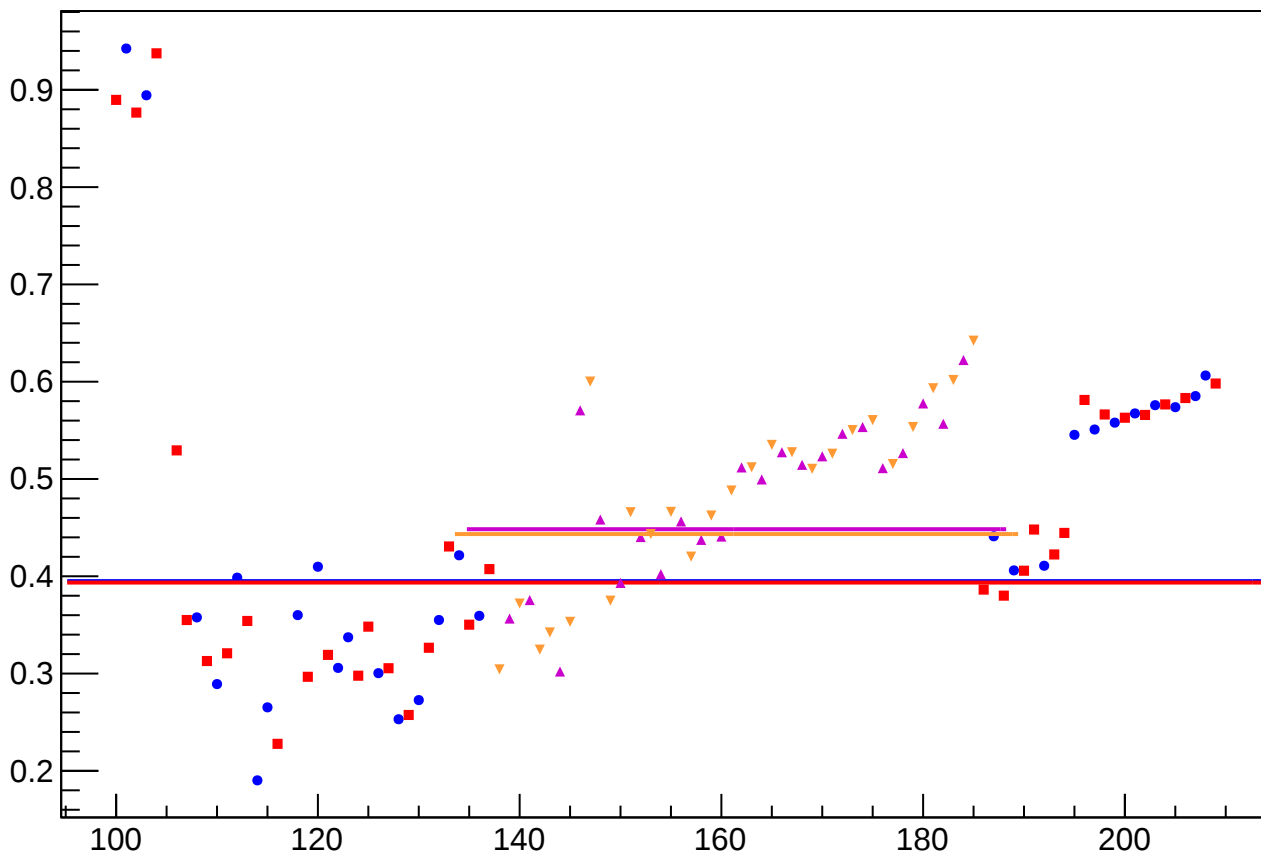
Right: 143.901 $\pm$ 0.000 χ^2 /NDF: 10433339866.8/59

In: 145.678 $\pm$ 0.000 χ^2 /NDF: 3941469964.0/50

Out: 145.243 $\pm$ 0.000 χ^2 /NDF: 8098639733.1/56

All: 145.451 $\pm$ 0.000 χ^2 /NDF: 12055869620.0/100

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: 0.394 $\pm$ 0.000 χ^2 /NDF: 2643744.1/31

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

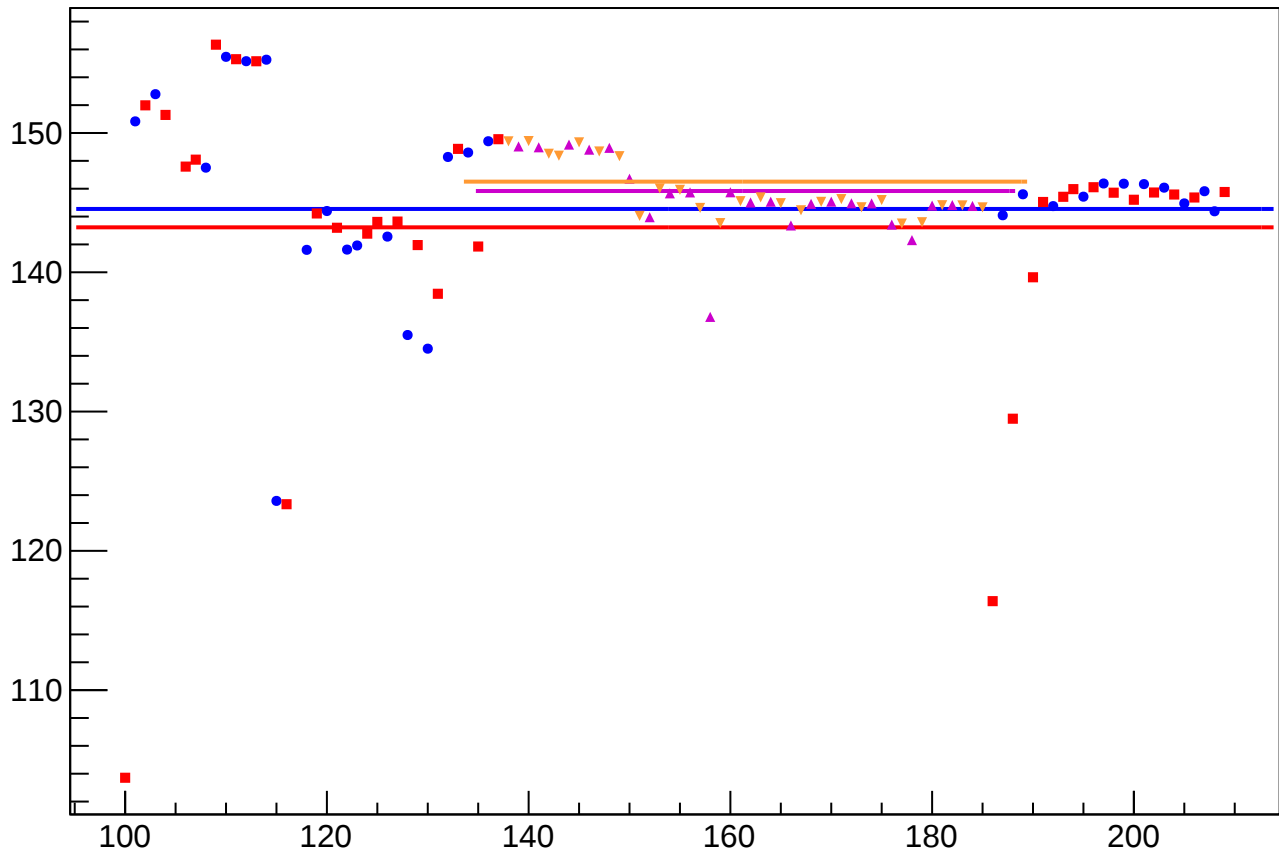
Right: 0.394 $\pm$ 0.000 χ^2 /NDF: 5478837.9/59

In: 0.422 $\pm$ 0.000 χ^2 /NDF:4181729.8/50

Out: 0.418 $\pm$ 0.000 χ^2 /NDF:4341311.3/56

All: 0.420 $\pm$ 0.000 χ^2 /NDF: 8525527.9/107

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: 143.227 ± 0.000 $\chi^2/\text{NDF}: 7088422074.4/31$

Left In: 145.834 ± 0.000 $\chi^2/\text{NDF}: 690172810.0/22$

Left: 146.184 ± 0.000 $\chi^2/\text{NDF}: 1110403123.5/47$

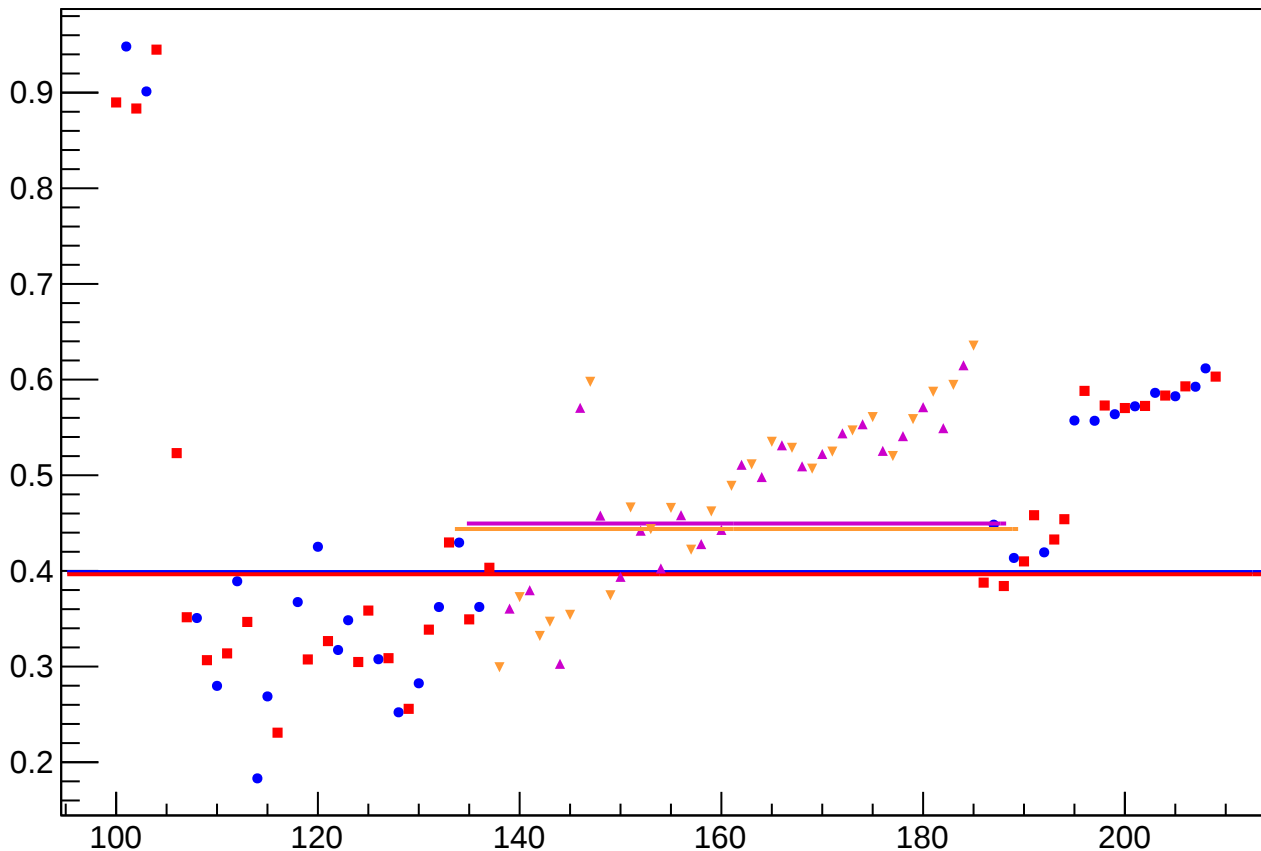
Right: 143.847 ± 0.000 $\chi^2/\text{NDF}: 10487882350.9/59$

In: 145.208 ± 0.000 $\chi^2/\text{NDF}: 4084136615.7/50$

Out: 144.873 ± 0.000 $\chi^2/\text{NDF}: 7955156809.4/56$

All: 145.032 ± 0.000 $\chi^2/\text{NDF}: 12048551530.0/103$

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: 0.397 $\pm$ 0.000 χ^2 /NDF: 2676655.2/31

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

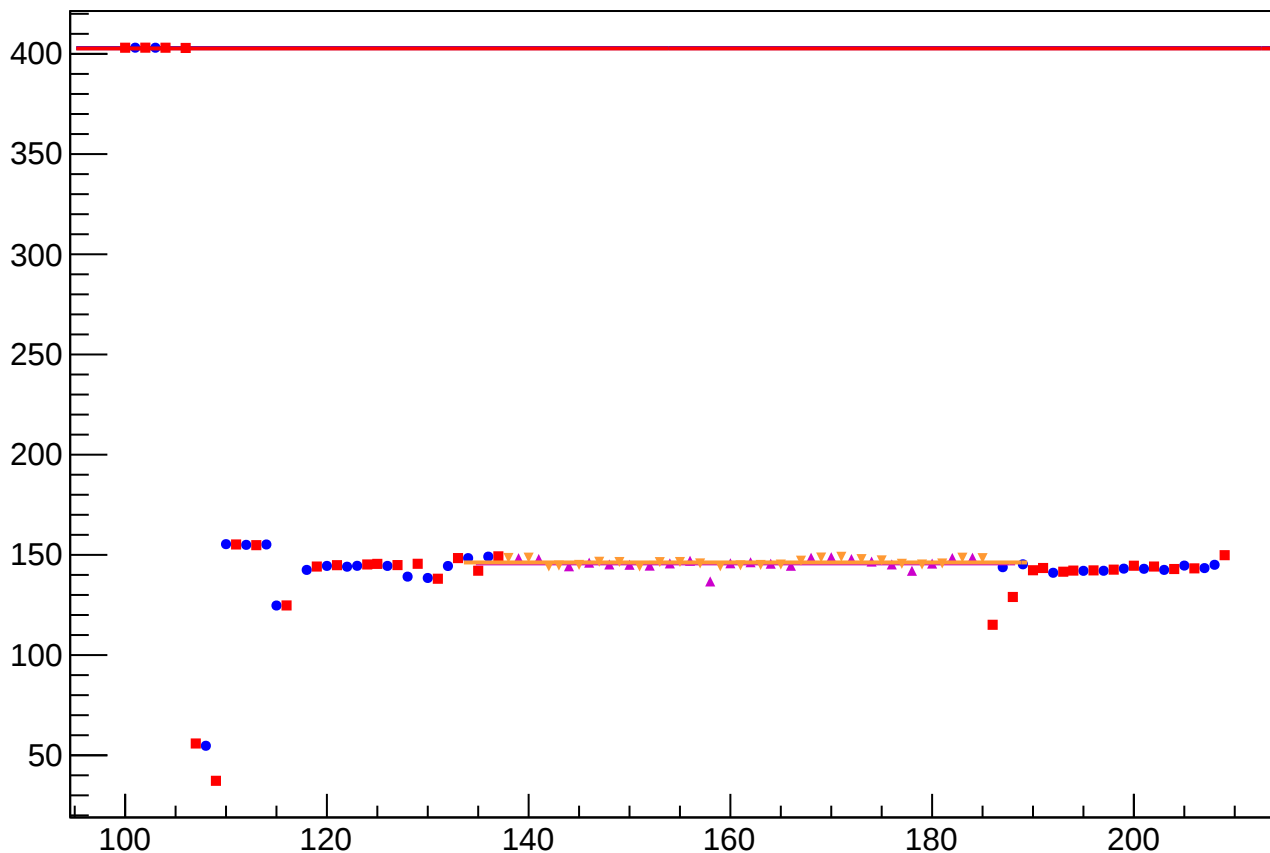
Right: 0.398 $\pm$ 0.000 χ^2 /NDF: 5560972.6/59

In: 0.425 $\pm$ 0.000 χ^2 /NDF:4178376.0/50

Out: 0.420 $\pm$ 0.000 χ^2 /NDF:4330408.4/56

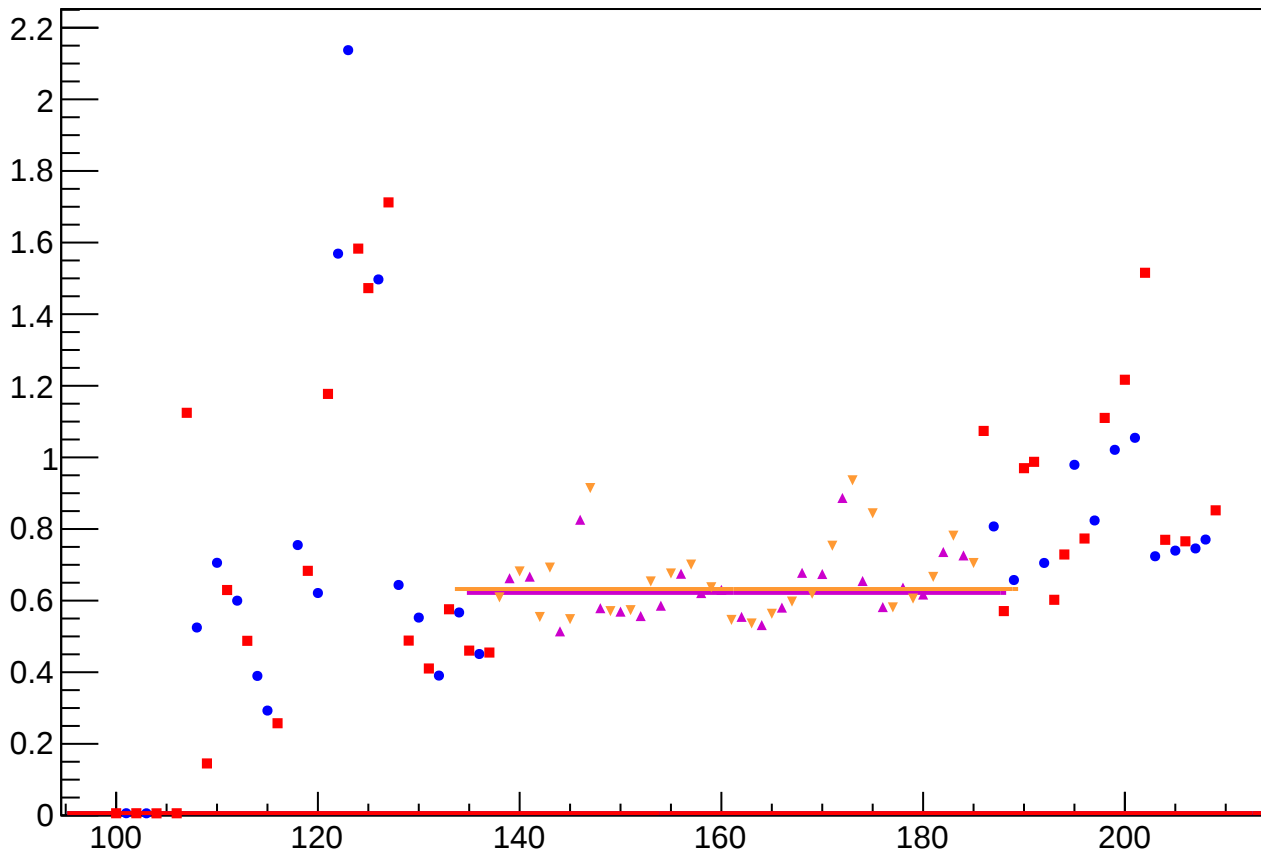
All: 0.422 $\pm$ 0.000 χ^2 /NDF: 8512331.3/107

yield_cav4bQ_mean vs Slug, Sign Corrected



Right In: 402.876+/-0.000	χ^2/NDF : 1752170815469.0/27	Left: 145.987+/-0.000	χ^2/NDF : 295994641.0/47
Left Out: 146.216+/-0.000	χ^2/NDF : 86042286.3/24	Right: 402.789+/-0.000	χ^2/NDF : 5665299704334.1
Right Out: 402.711+/-0.000	χ^2/NDF : 3912679388140.8/31	In: 402.585+/-0.000	χ^2/NDF : 4082972732893.6/50
Left In: 145.755+/-0.000	χ^2/NDF : 206171532.0/22	Out: 402.451+/-0.000	χ^2/NDF : 6269771176305.1/5
		All: 402.514+/-0.000	χ^2/NDF : 103530433175

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: 23645477.4/31

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

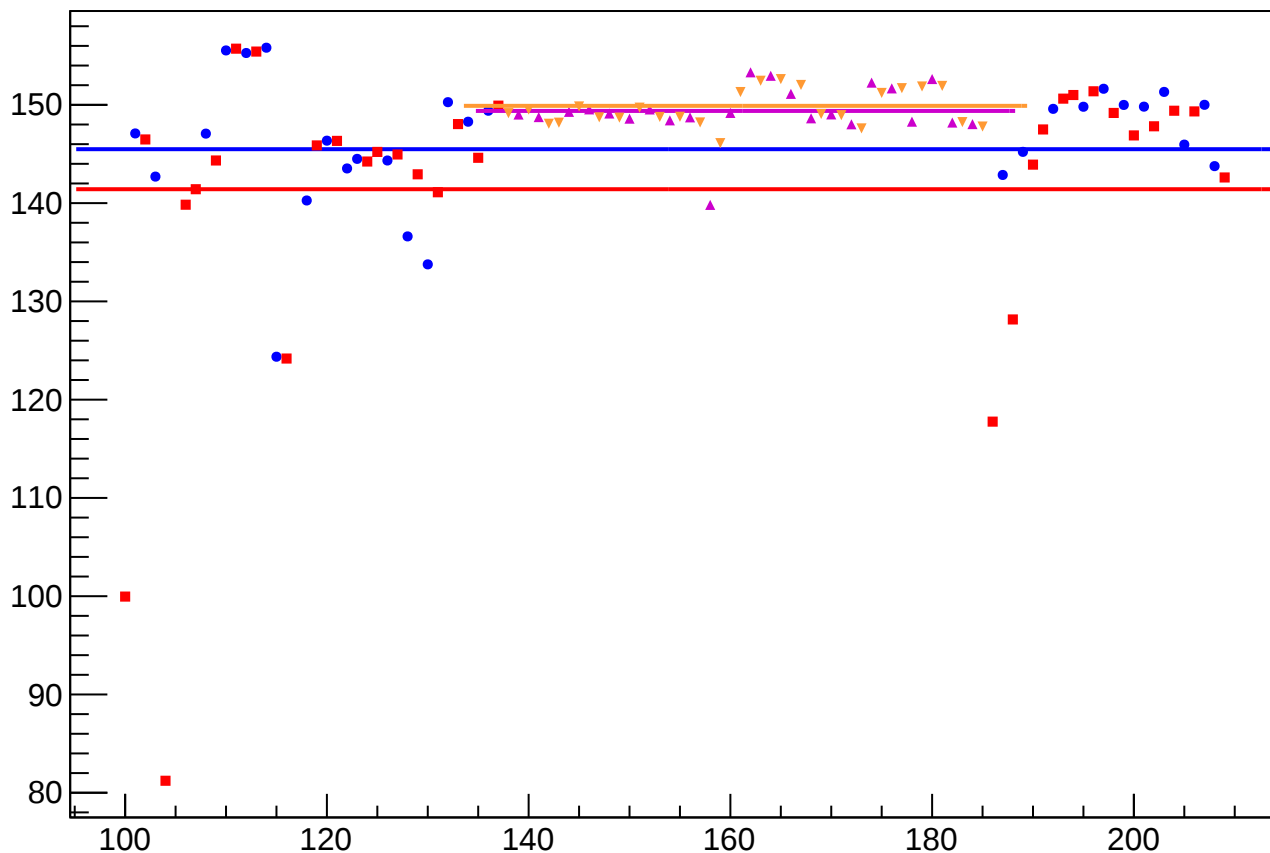
Right: 0.007 $\pm$ 0.000 χ^2 /NDF: 44984985.7/59

In: 0.007 $\pm$ 0.000 χ^2 /NDF:48408117.6/50

Out: 0.007 $\pm$ 0.000 χ^2 /NDF:52322590.6/56

All: 0.007 $\pm$ 0.000 χ^2 /NDF: 100730841.8/107

yield_cav4cQ_mean vs Slug, Sign Corrected



Right In: 145.488 $\pm$ 0.000

χ^2 /NDF: 1331995660.9/27

Left: 149.650 $\pm$ 0.000

χ^2 /NDF: 604081739.6/47

Left Out: 149.900 $\pm$ 0.000

χ^2 /NDF: 162845622.6/24

Right: 143.241 $\pm$ 0.000

χ^2 /NDF: 4787645321.9/59

Right Out: 141.416 $\pm$ 0.000

χ^2 /NDF: 3249331236.3/31

In: 148.125 $\pm$ 0.000

χ^2 /NDF: 1998029233.5/50

Out: 146.901 $\pm$ 0.000

χ^2 /NDF: 4703422193.6/56

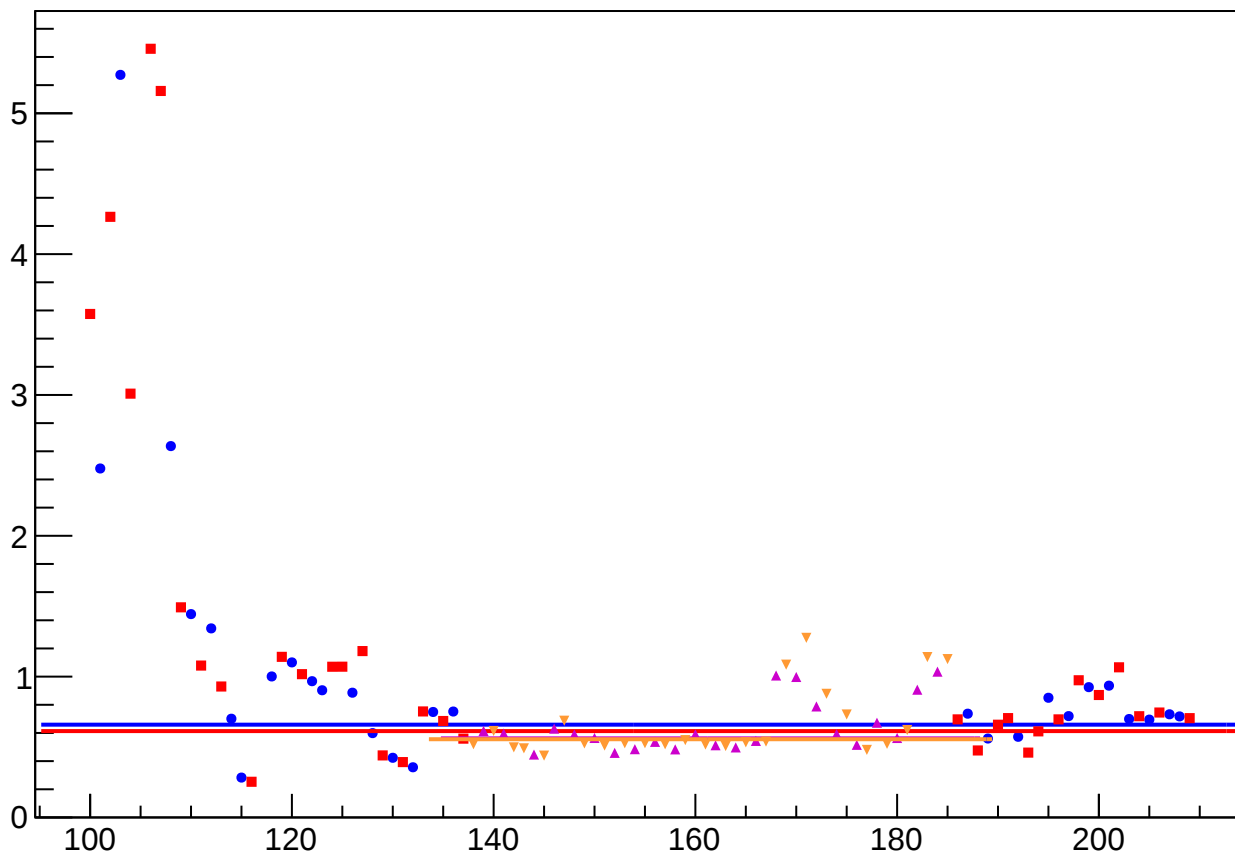
Left In: 149.382 $\pm$ 0.000

χ^2 /NDF: 434657827.5/22

All: 147.477 $\pm$ 0.000

χ^2 /NDF: 6756808903.8

yield_cav4cQ_rms vs Slug, Sign Corrected



Right In: 0.659 $\pm$ 0.000 χ^2 /NDF: 4014849.5/27

Left Out: 0.555 $\pm$ 0.000 χ^2 /NDF:1773688.1/24

Right Out: 0.613 $\pm$ 0.000 χ^2 /NDF: 5568130.7/31

Left In: 0.562 $\pm$ 0.000 χ^2 /NDF:1305573.4/22

Left: 0.559 $\pm$ 0.000 χ^2 /NDF: 3081194.0/47

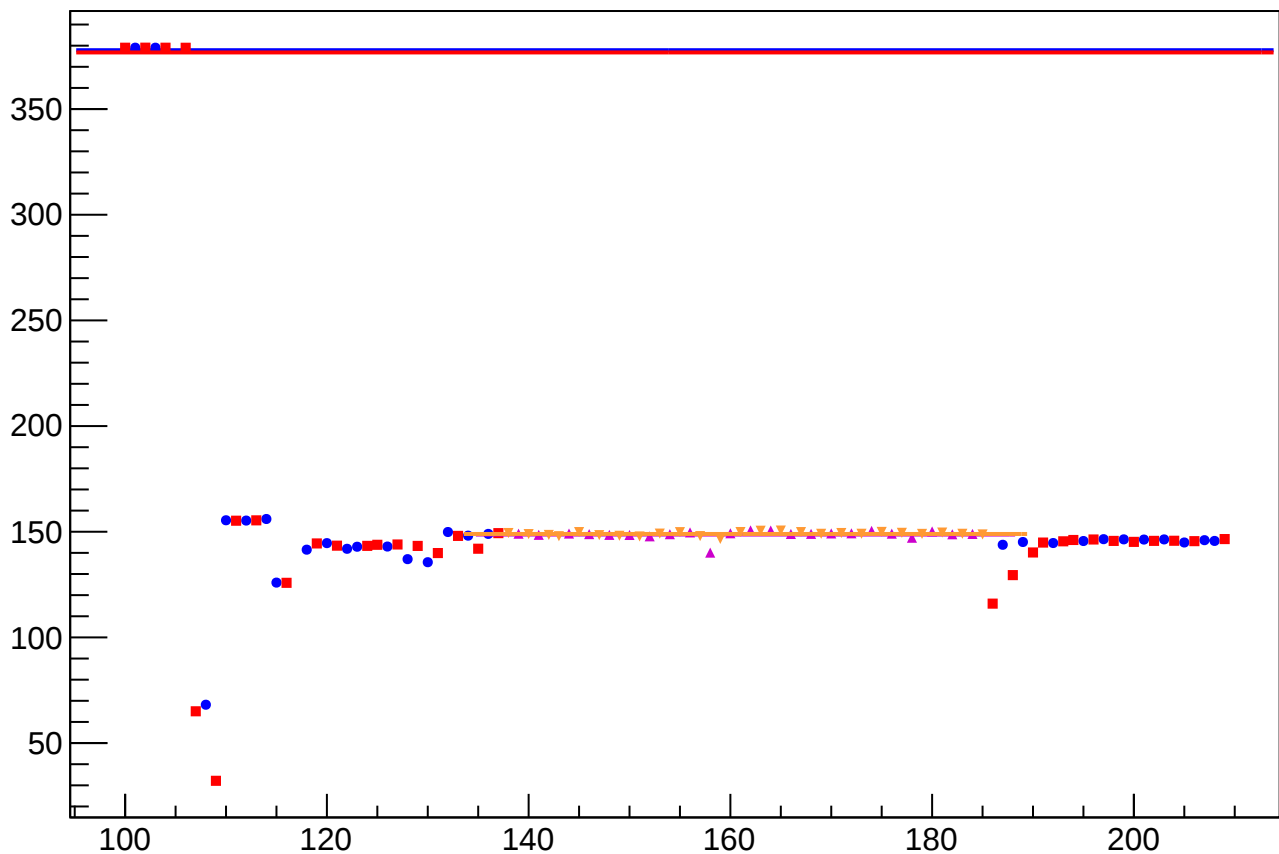
Right: 0.634 $\pm$ 0.000 χ^2 /NDF: 9634789.2/59

In: 0.593 $\pm$ 0.000 χ^2 /NDF:5608221.1/50

Out: 0.576 $\pm$ 0.000 χ^2 /NDF:7461407.6/56

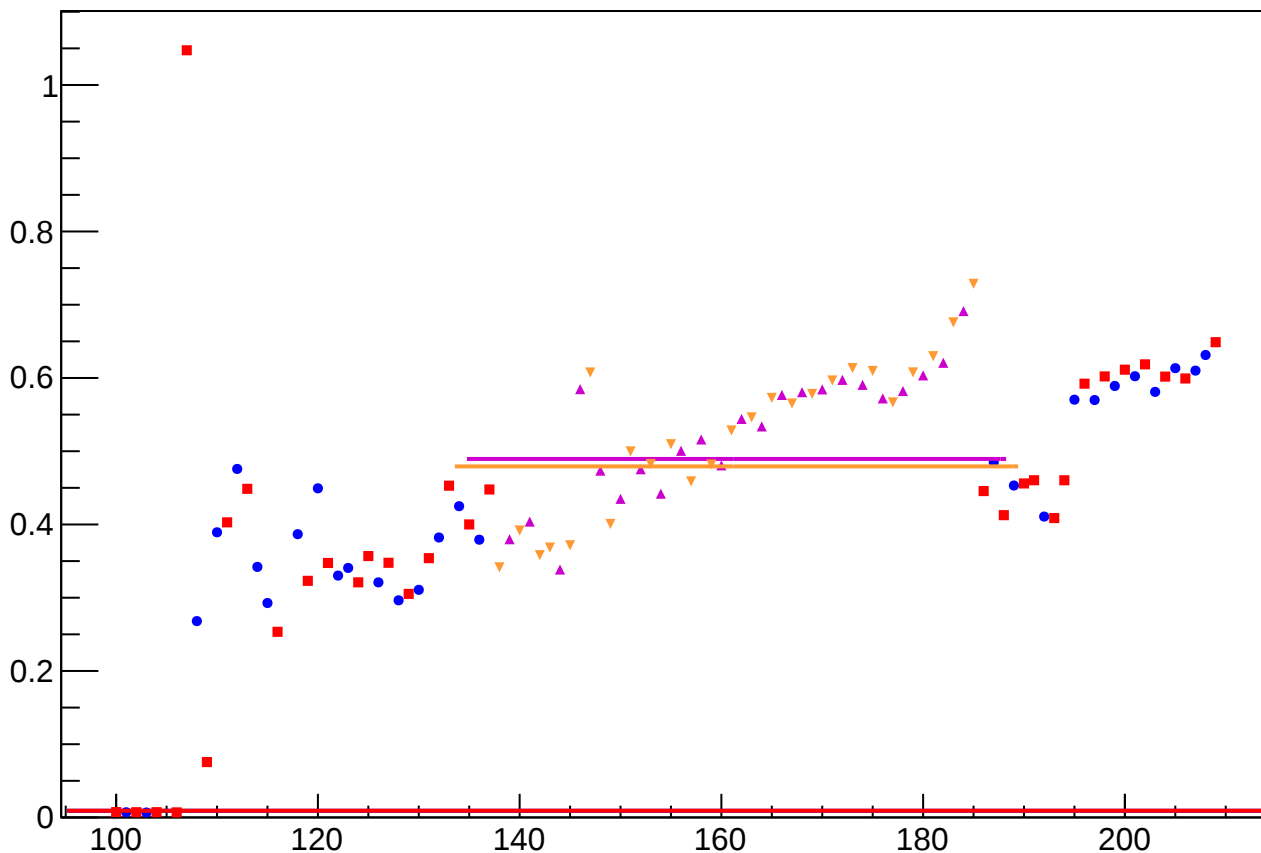
All: 0.584 $\pm$ 0.000 χ^2 /NDF: 13091539.5/107

yield_cav4dQ_mean vs Slug, Sign Corrected



Right In: 377.854+/-0.000	χ^2/NDF : 3835978443304.9/27	Left: 148.814+/-0.000	χ^2/NDF : 319467494.9/47
Left Out: 148.944+/-0.000	χ^2/NDF : 63976941.3/24	Right: 377.292+/-0.000	χ^2/NDF : 13882247786986.0
Right Out: 376.799+/-0.000	χ^2/NDF : 10038362301337.4/31	In: 376.685+/-0.000	χ^2/NDF : 7410368661667.7/50
Left In: 148.672+/-0.000	χ^2/NDF : 252846428.3/22	Out: 375.686+/-0.000	χ^2/NDF : 13897866744468.0
		All: 376.153+/-0.000	χ^2/NDF : 213153652474.0

yield_cav4dQ_rms vs Slug, Sign Corrected



Right In: 0.009 $\pm$ 0.000 χ^2 /NDF: 24237239.5/27

Left Out: 0.479 $\pm$ 0.000 χ^2 /NDF:1516566.1/24

Right Out: 0.009 $\pm$ 0.000 χ^2 /NDF: 25924383.9/31

Left In: 0.489 $\pm$ 0.000 χ^2 /NDF:1076134.2/22

Left: 0.484 $\pm$ 0.000 χ^2 /NDF: 2600075.4/47

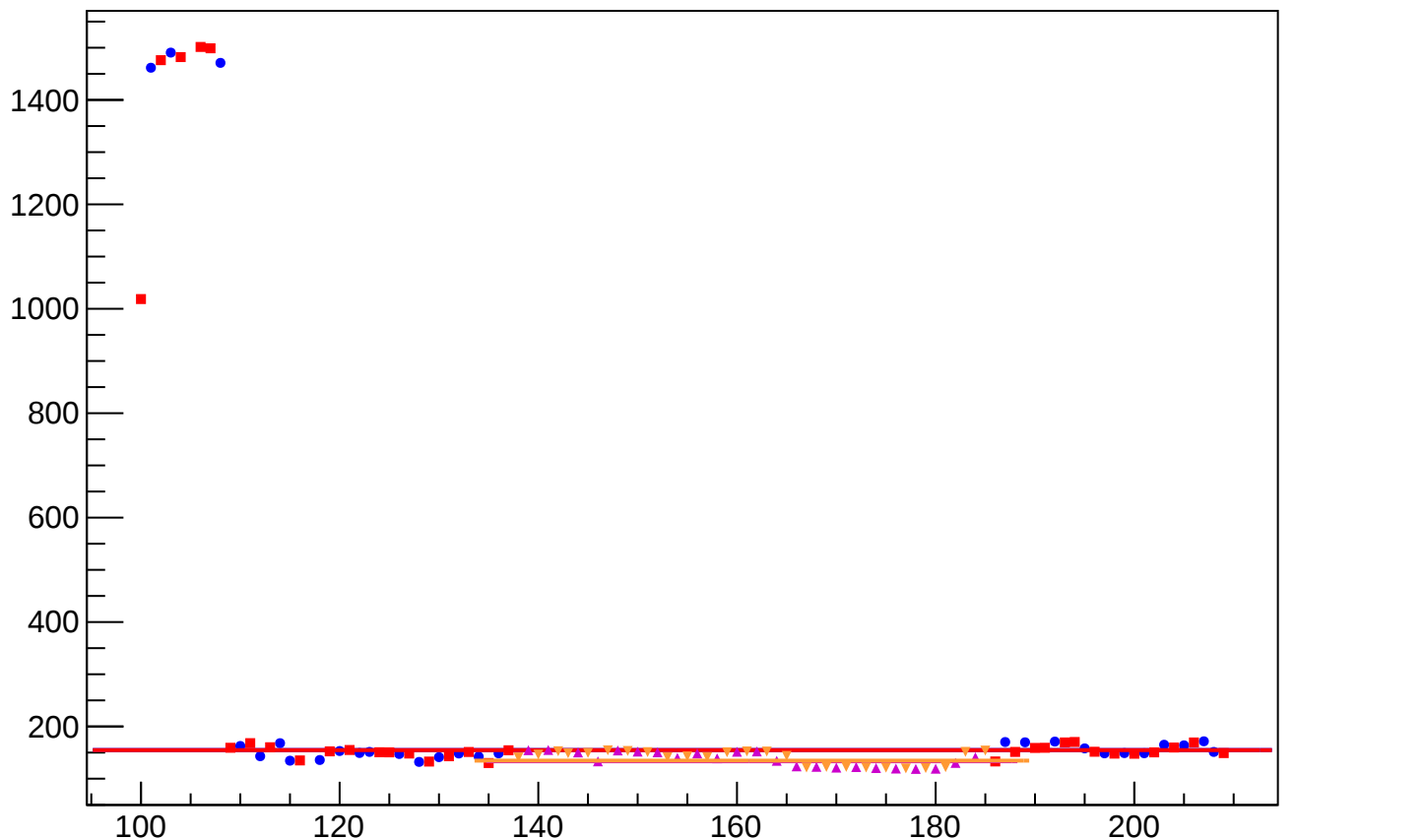
Right: 0.009 $\pm$ 0.000 χ^2 /NDF: 50161703.1/59

In: 0.012 $\pm$ 0.000 χ^2 /NDF:56715846.4/50

Out: 0.011 $\pm$ 0.000 χ^2 /NDF:60299508.6/56

All: 0.012 $\pm$ 0.000 χ^2 /NDF: 117015442.4/107

yield_bcm0l02_mean vs Slug, Sign Corrected



Right In: 154.908+/-0.000

χ^2/NDF : 25941899492.8/27

Left Out: 134.554+/-0.000

χ^2/NDF : 4376966869.3/24

Right Out: 154.704+/-0.000

χ^2/NDF : 35042138178.2/31

Left In: 133.337+/-0.000

χ^2/NDF : 4303812119.2/22

Left: 133.958+/-0.000

χ^2/NDF : 8697951676.8/47

Right: 154.799+/-0.000

χ^2/NDF : 60984413208.6/59

In: 142.514+/-0.000

χ^2/NDF : 34747276098.4/50

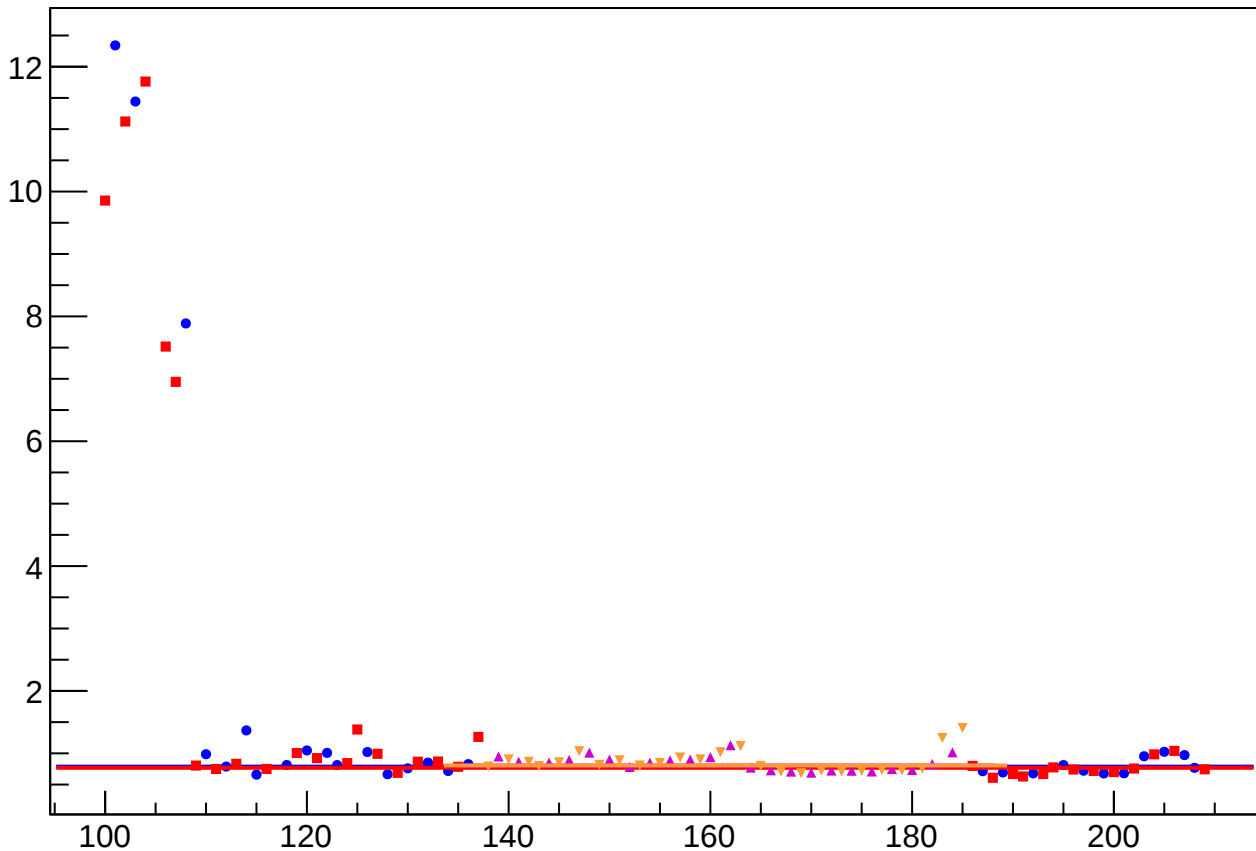
Out: 143.662+/-0.000

χ^2/NDF : 43771395769.4/56

All: 143.114+/-0.000

χ^2/NDF : 78545915514.0/100

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: 0.769 $\pm$ 0.000 χ^2 /NDF: 3299516.0/31

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

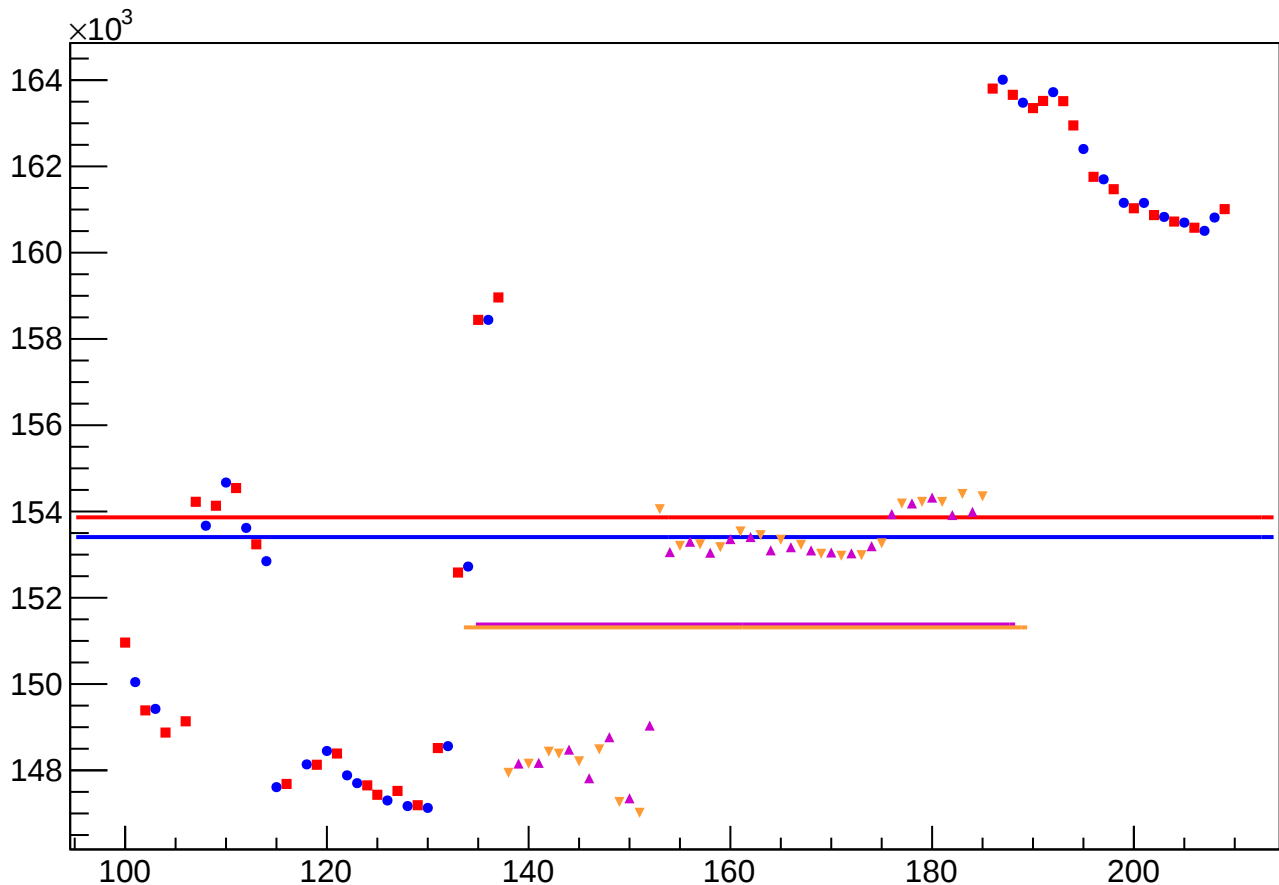
Right: 0.777 $\pm$ 0.000 χ^2 /NDF: 6313798.9/59

In: 0.797 $\pm$ 0.000 χ^2 /NDF:3494553.8/50

Out: 0.789 $\pm$ 0.000 χ^2 /NDF:4019948.7/56

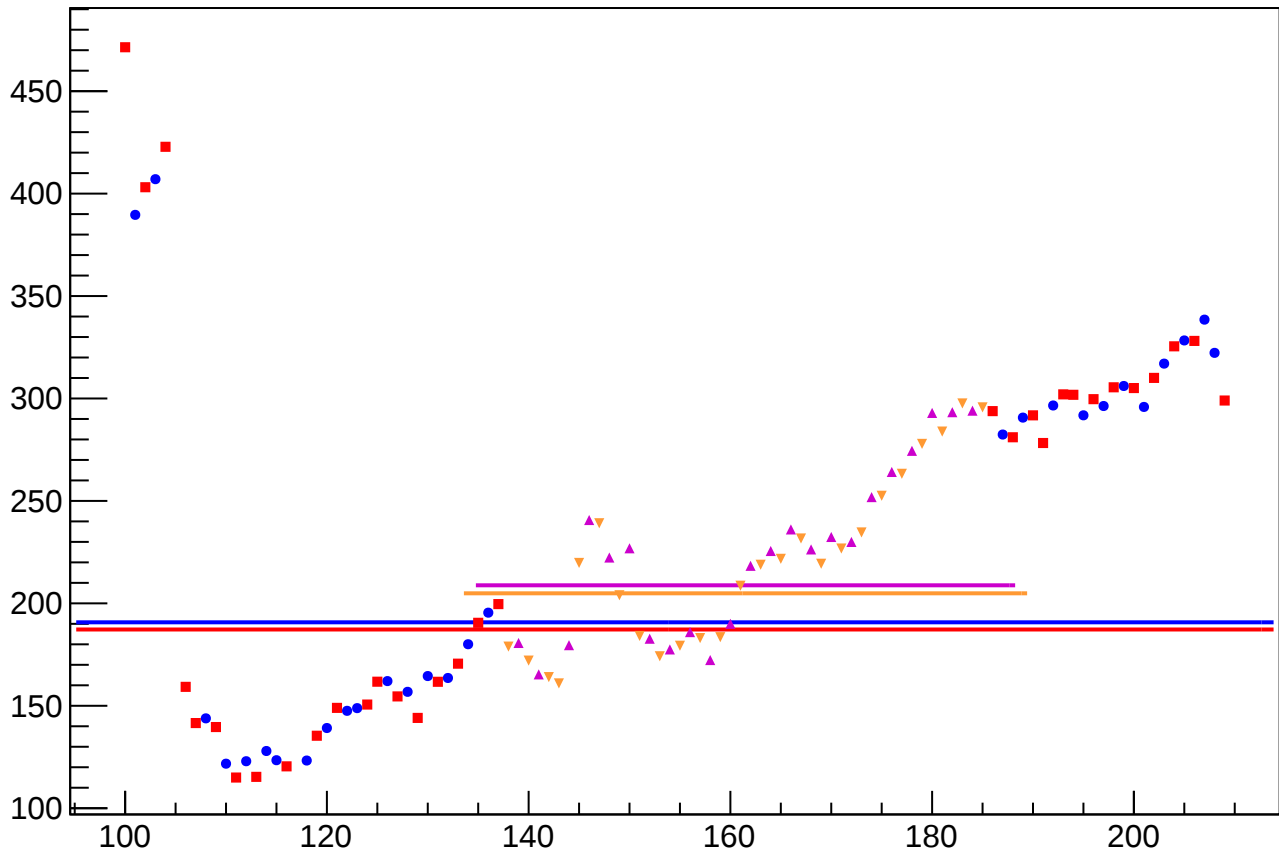
All: 0.793 $\pm$ 0.000 χ^2 /NDF: 7517197.6/107

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: 153649.344+/-0.038	χ^2/NDF : 23017330234.1
Right Out: 153864.690+/-0.052	χ^2/NDF : 12002460980.8/31	In: 152324.873+/-0.037	χ^2/NDF : 14072327065.3/5
Left In: 151380.236+/-0.051	χ^2/NDF : 2363895785.3/22	Out: 152514.432+/-0.035	χ^2/NDF : 16449238996.4
		All: 152424.817+/-0.026	χ^2/NDF : 30535108

yield_bpm0i01WS_rms vs Slug, Sign Corrected



Right In: 190.746 $\pm$ 0.039 χ^2 /NDF: 4117286.0/27

Left Out: 204.900 $\pm$ 0.034 χ^2 /NDF:1056380.8/24

Right Out: 187.241 $\pm$ 0.036 χ^2 /NDF: 4598613.0/31

Left In: 208.813 $\pm$ 0.036 χ^2 /NDF:1001936.6/22

Left: 206.758 $\pm$ 0.025 χ^2 /NDF: 2064453.9/47

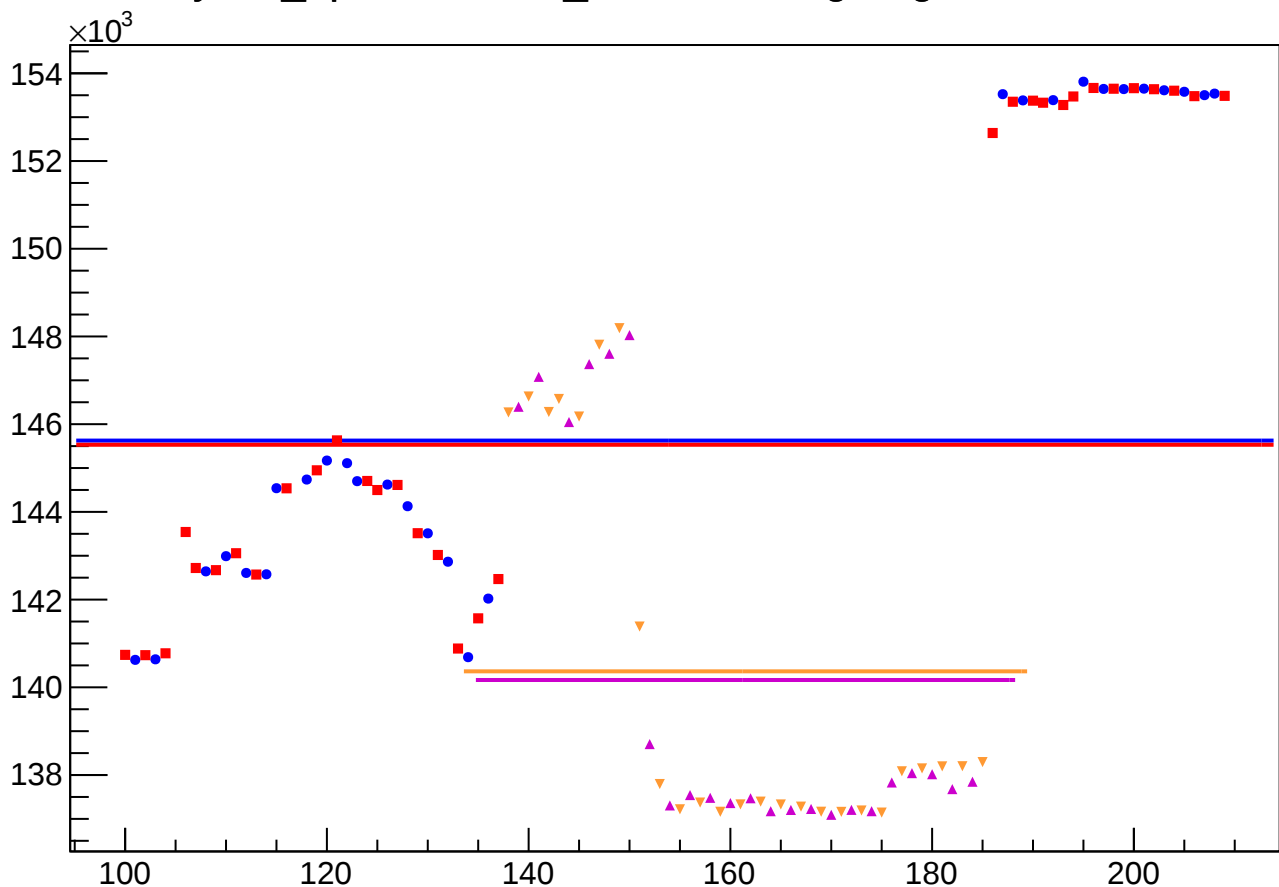
Right: 188.889 $\pm$ 0.027 χ^2 /NDF: 8720237.1/59

In: 200.391 $\pm$ 0.026 χ^2 /NDF:5235347.8/50

Out: 196.586 $\pm$ 0.025 χ^2 /NDF:5778874.0/56

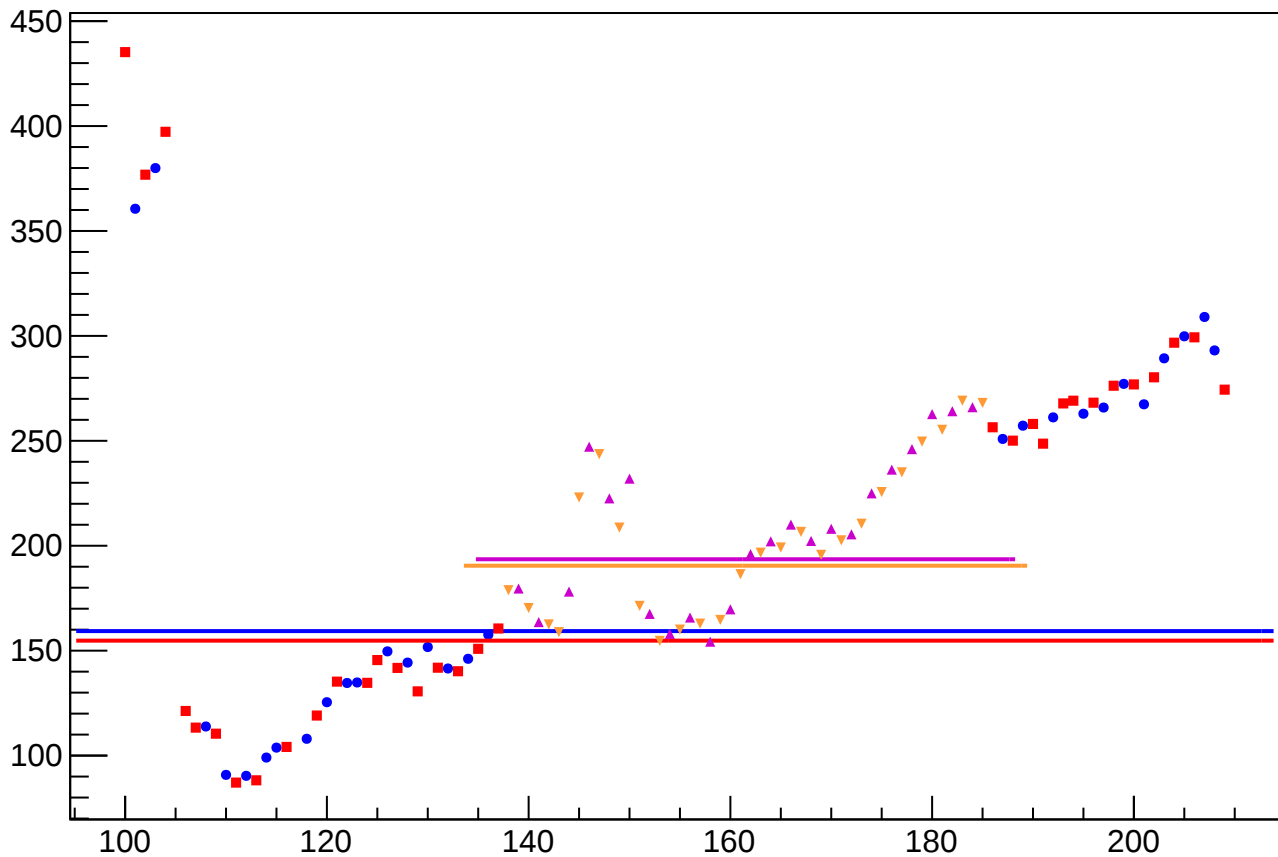
All: 198.385 $\pm$ 0.018 χ^2 /NDF: 11025136.2/10

yield_bpm0i01aWS_mean vs Slug, Sign Corrected



Right In: 145625.854+/-0.047	χ^2/NDF : 8715622355.1/27	Left: 140270.460+/-0.033	χ^2/NDF : 16714620354.4
Left Out: 140364.444+/-0.045	χ^2/NDF : 8677078677.7/24	Right: 145574.754+/-0.032	χ^2/NDF : 18811613401.8
Right Out: 145530.589+/-0.043	χ^2/NDF : 10093752588.3/31	In: 142943.706+/-0.033	χ^2/NDF : 23476593356.7/5
Left In: 140166.971+/-0.047	χ^2/NDF : 8028464654.6/22	Out: 143056.178+/-0.031	χ^2/NDF : 25571875859.5/
		All: 143003.363+/-0.023	χ^2/NDF : 490545346

yield_bpm0i01aWS_rms vs Slug, Sign Corrected



Right In: 159.326 $\pm$ 0.033 χ^2/NDF : 5035258.4/27

Left Out: 190.486 $\pm$ 0.032 χ^2/NDF : 950233.2/24

Right Out: 154.772 $\pm$ 0.031 χ^2/NDF : 5636455.2/31

Left In: 193.558 $\pm$ 0.034 χ^2/NDF : 963675.0/22

Left: 191.948 $\pm$ 0.023 χ^2/NDF : 1918302.4/47

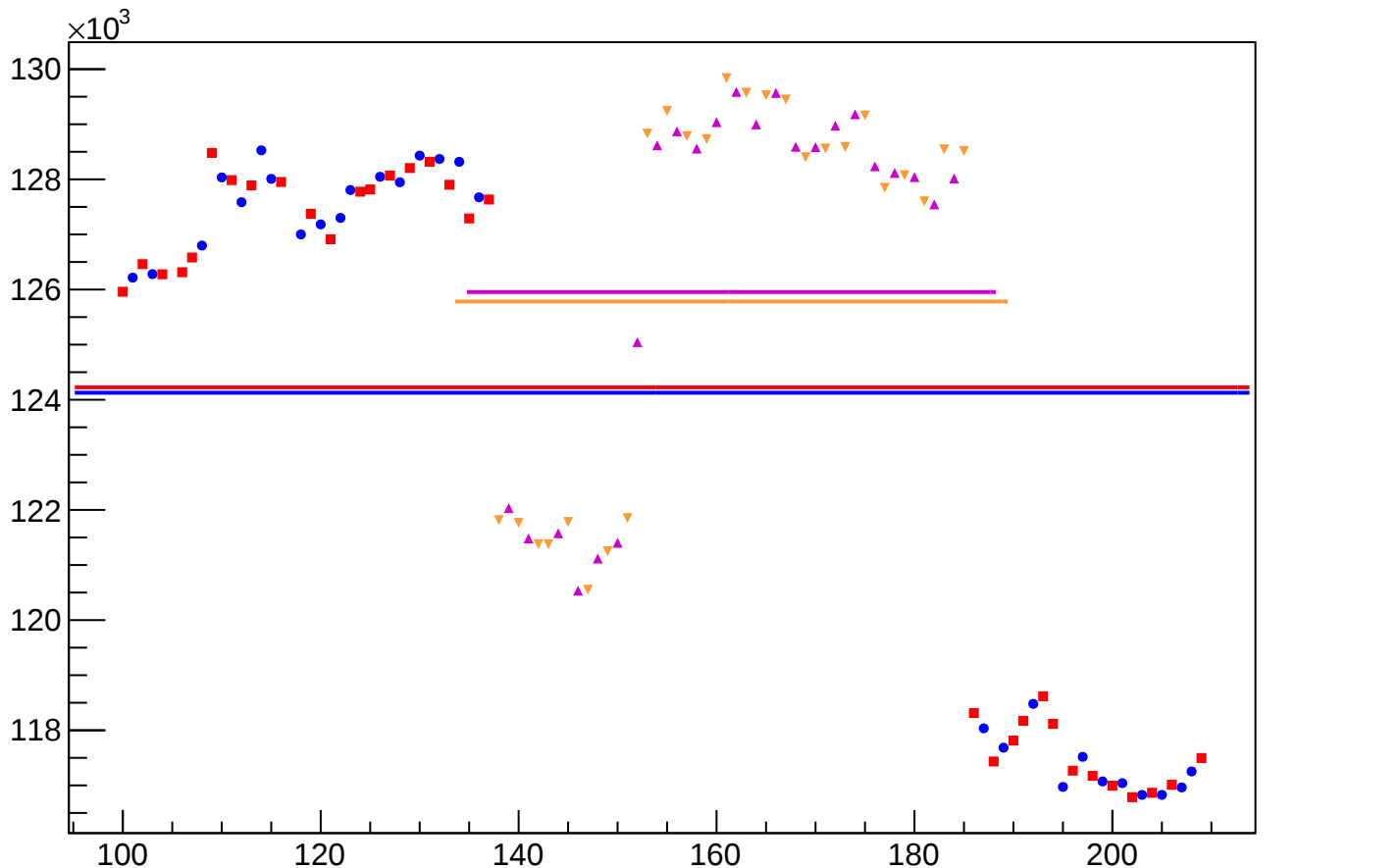
Right: 156.883 $\pm$ 0.022 χ^2/NDF : 10681943.6/59

In: 176.146 $\pm$ 0.024 χ^2/NDF : 6528436.0/50

Out: 171.878 $\pm$ 0.022 χ^2/NDF : 7236733.9/56

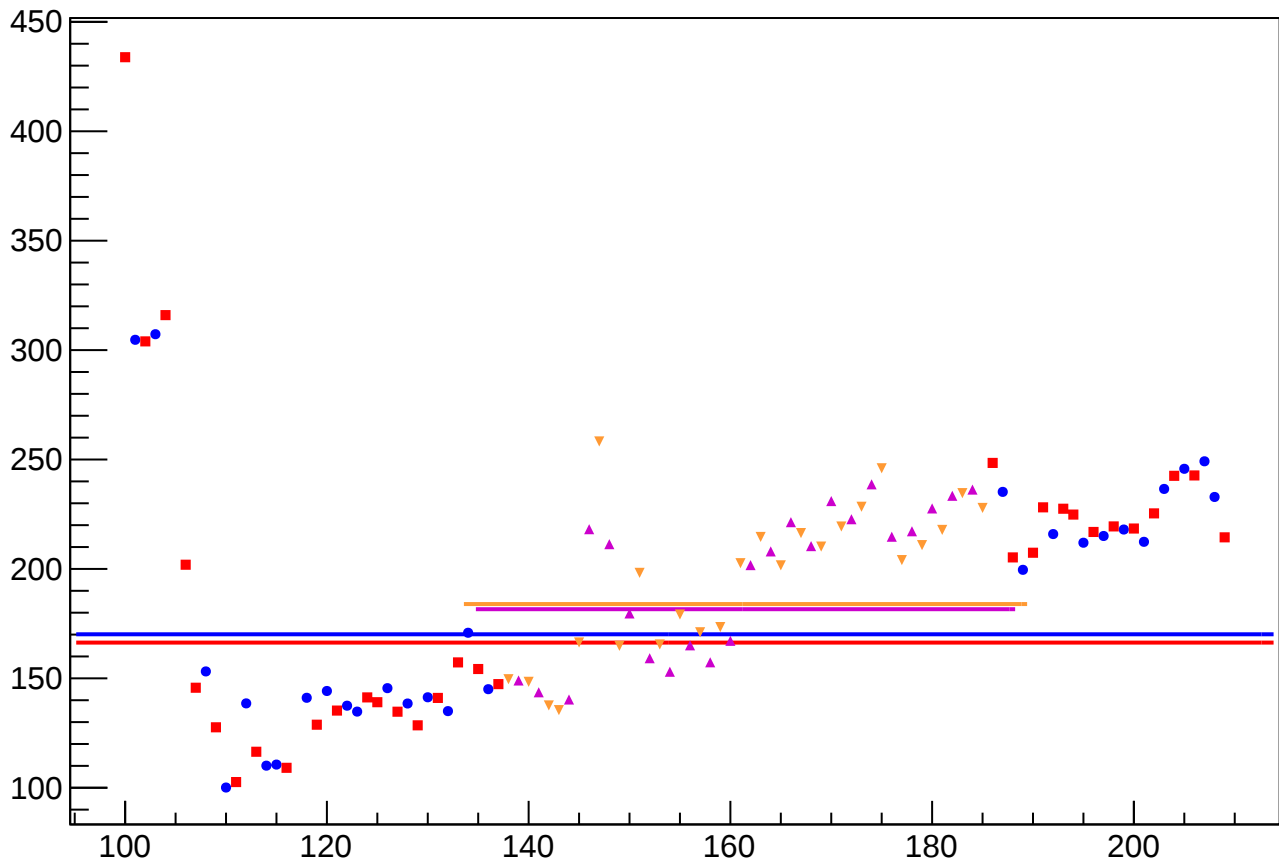
All: 173.882 $\pm$ 0.016 χ^2/NDF : 13782636.0/100

yield_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: 124127.207 $\pm$ 0.047	χ^2 /NDF: 11137146761.5/27	Left: 125867.639 $\pm$ 0.031	χ^2 /NDF: 12541428458.9/24
Left Out: 125782.764 $\pm$ 0.044	χ^2 /NDF: 6729761889.8/24	Right: 124178.988 $\pm$ 0.032	χ^2 /NDF: 23365537461.1/24
Right Out: 124224.700 $\pm$ 0.044	χ^2 /NDF: 12226117426.5/31	In: 125087.510 $\pm$ 0.032	χ^2 /NDF: 17731905875.7/31
Left In: 125955.637 $\pm$ 0.045	χ^2 /NDF: 5804088930.1/22	Out: 125008.550 $\pm$ 0.031	χ^2 /NDF: 19578859571.2/24
		All: 125046.468 $\pm$ 0.023	χ^2 /NDF: 373138390.1/24

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: 166.336+/-0.031 χ^2/NDF : 2698029.5/31

Left In: 181.596+/-0.032 χ^2/NDF : 1103524.3/22

Left: 182.792+/-0.022 χ^2/NDF : 2229521.2/47

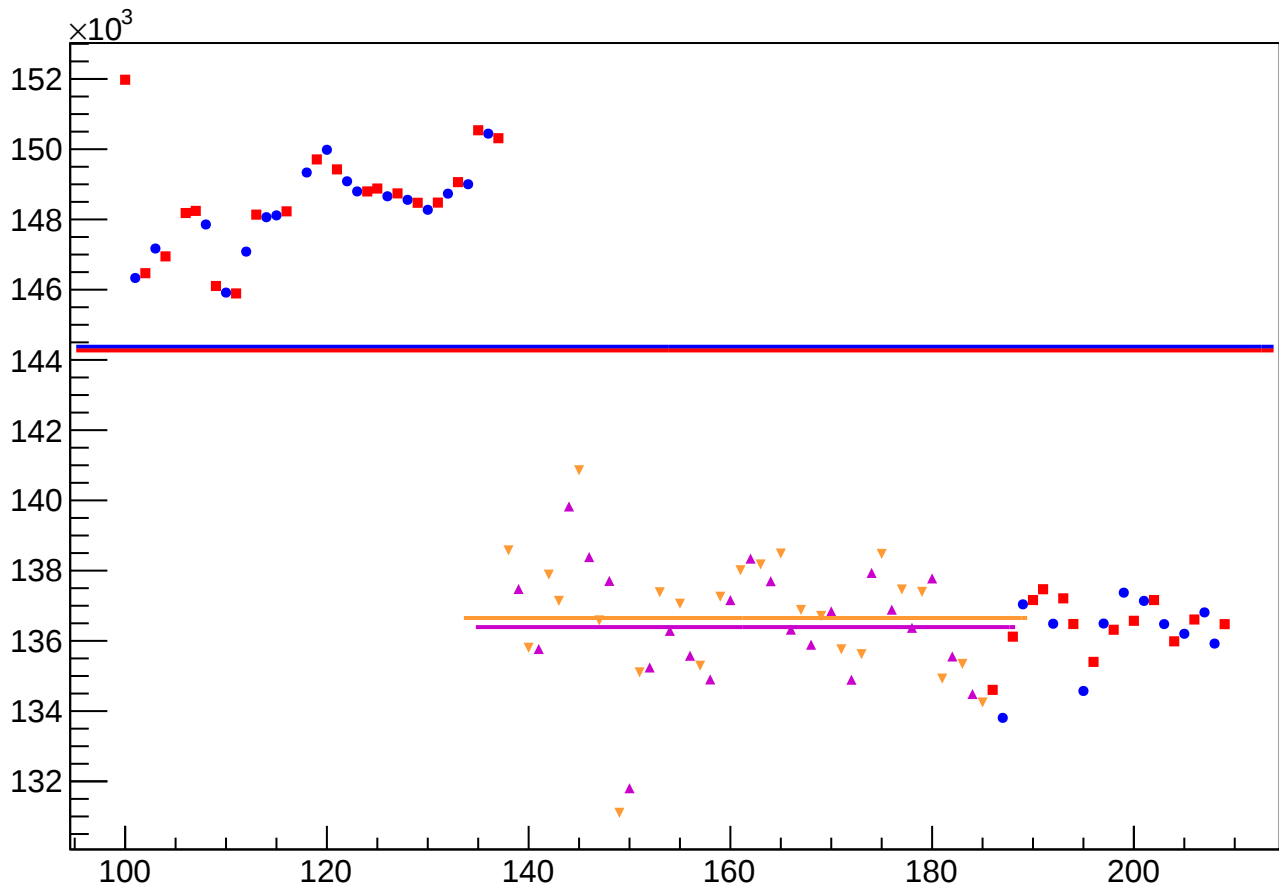
Right: 168.116+/-0.023 χ^2/NDF : 4917906.2/59

In: 176.153+/-0.023 χ^2/NDF : 3378658.2/50

Out: 175.196+/-0.022 χ^2/NDF : 3980394.7/56

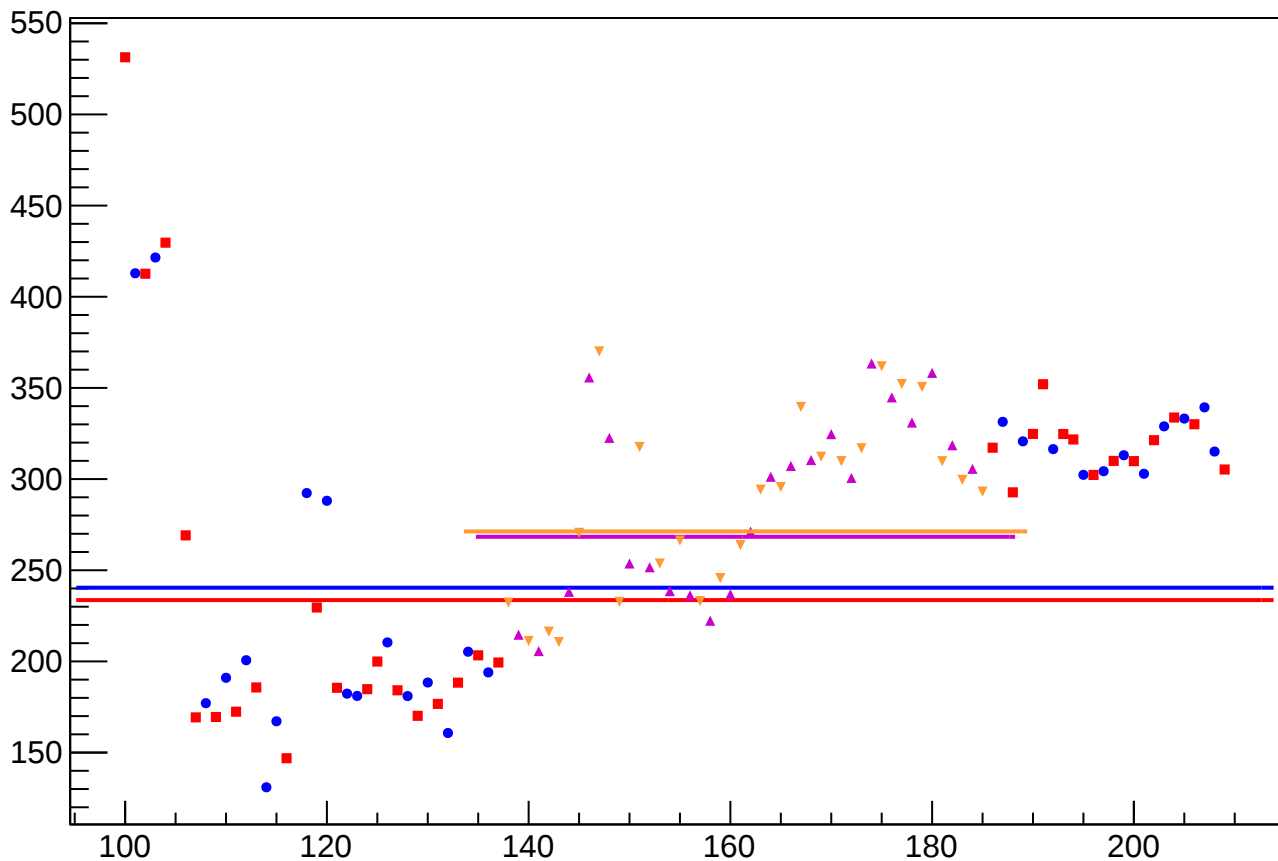
All: 175.656+/-0.016 χ^2/NDF : 7359956.3/107

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: 144318.978+/-0.046	χ^2/NDF : 16273703080.1
Right Out: 144270.152+/-0.062	χ^2/NDF : 8548462135.7/31	In: 140337.447+/-0.047	χ^2/NDF : 15663365794.3/5
Left In: 136392.188+/-0.066	χ^2/NDF : 701986841.4/22	Out: 140605.292+/-0.045	χ^2/NDF : 16693070106.1
		All: 140477.481+/-0.032	χ^2/NDF : 323734767

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: 233.628 $\pm$ 0.044 χ^2 /NDF: 2630618.3/31

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

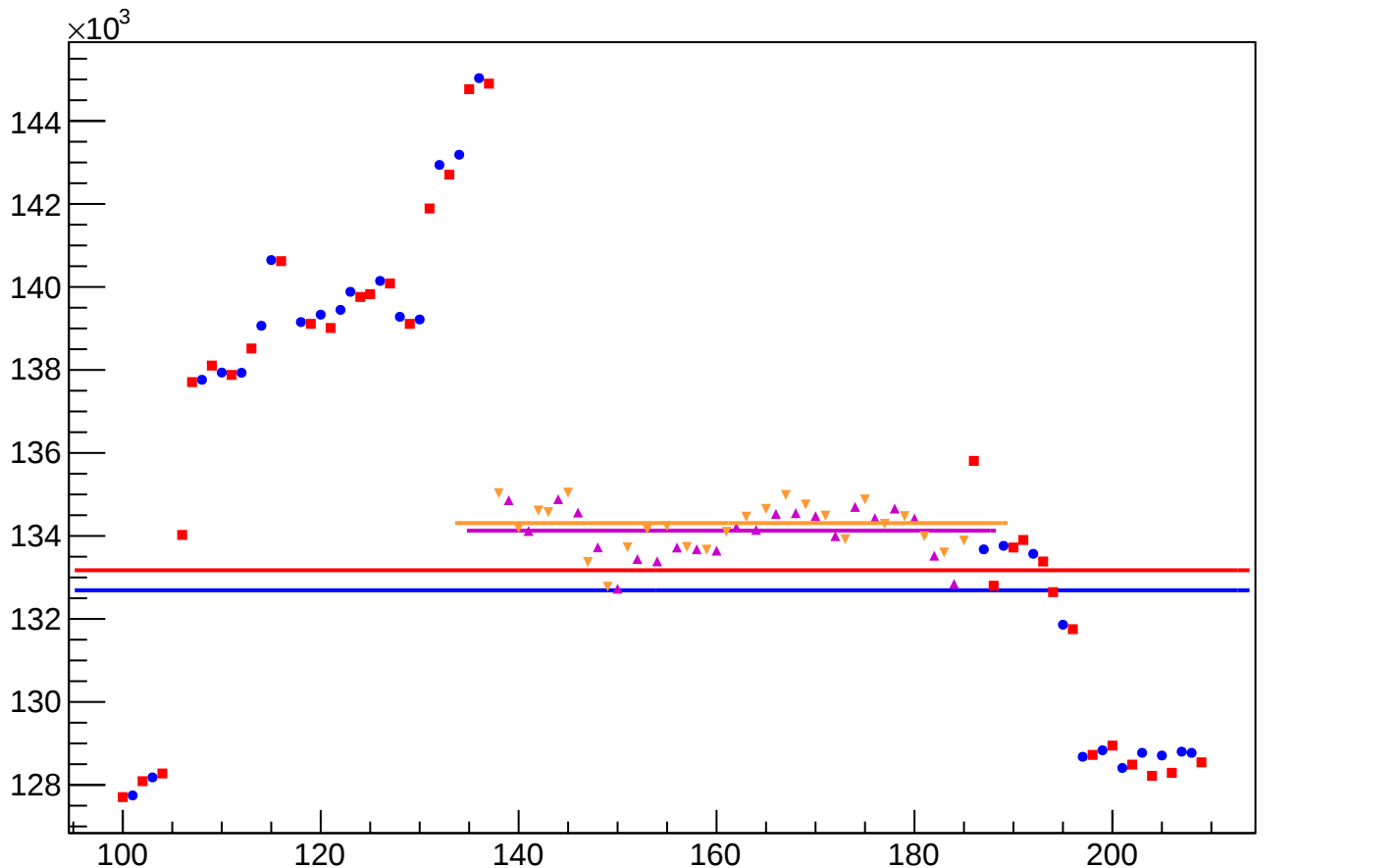
Right: 236.786 $\pm$ 0.032 χ^2 /NDF: 4972146.9/59

In: 254.543 $\pm$ 0.033 χ^2 /NDF:3584915.5/50

Out: 251.746 $\pm$ 0.032 χ^2 /NDF:4047733.5/56

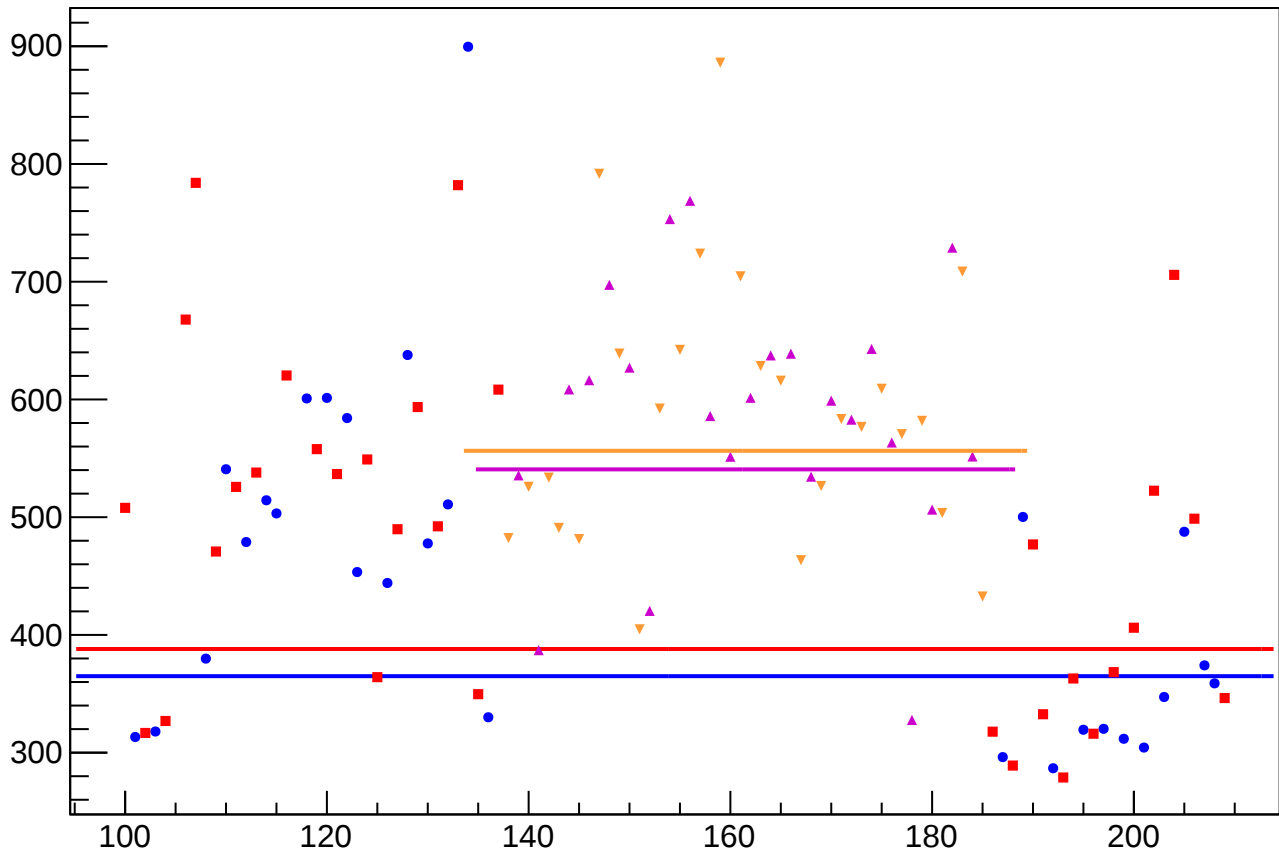
All: 253.081 $\pm$ 0.023 χ^2 /NDF: 7636367.1/107

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: 132923.531 $\pm$ 0.078	χ^2 /NDF: 4298688171.3/
Right Out: 133172.910 $\pm$ 0.112	χ^2 /NDF: 1723034398.1/31	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: 133624.738 $\pm$ 0.087	χ^2 /NDF: 1779164897.0/5
		All: 133420.817 $\pm$ 0.061	χ^2 /NDF: 443625334

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: 388.046 $\pm$ 0.080 χ^2 /NDF: 1916427.4/31

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

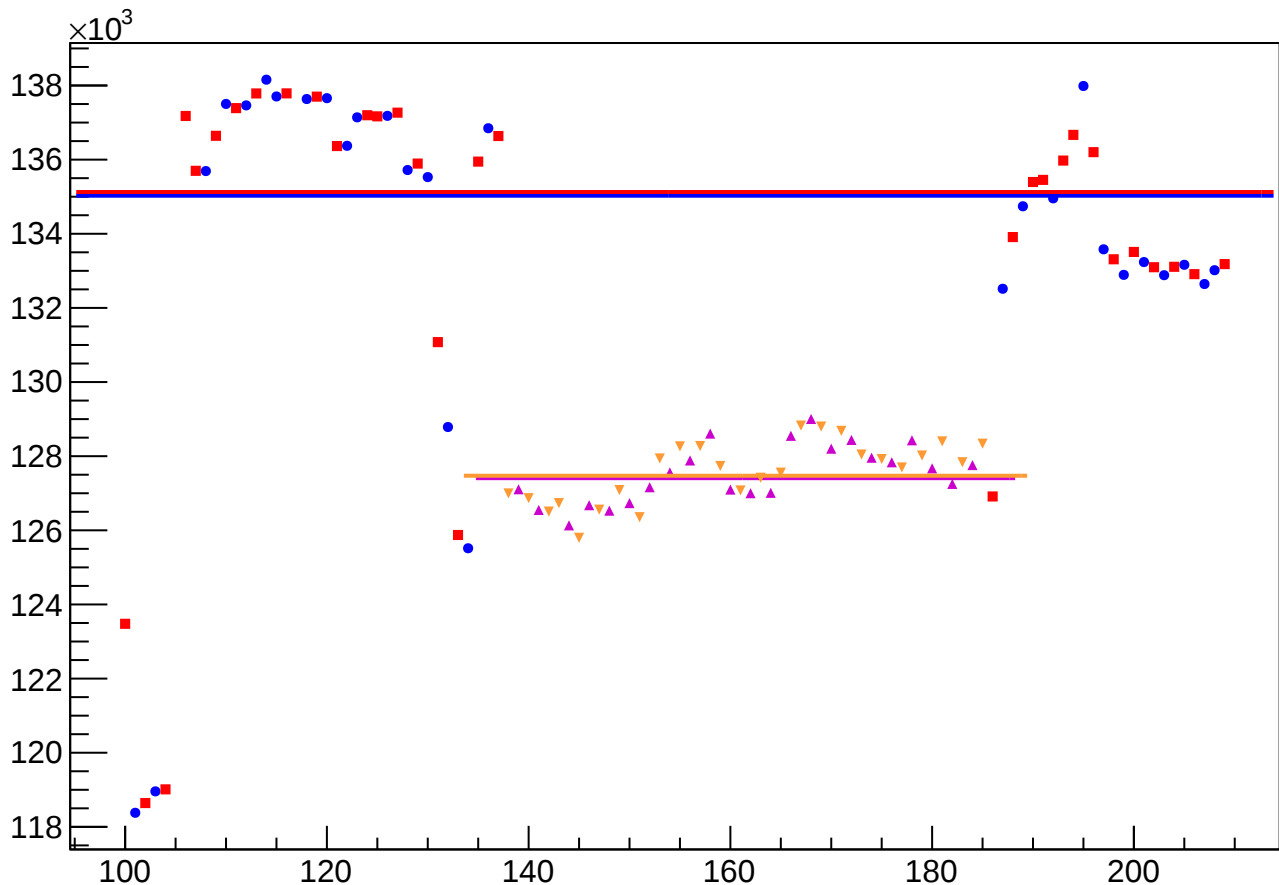
Right: 376.106 $\pm$ 0.055 χ^2 /NDF: 3297798.5/59

In: 429.839 $\pm$ 0.061 χ^2 /NDF:4676899.0/50

Out: 454.920 $\pm$ 0.062 χ^2 /NDF:4697809.7/56

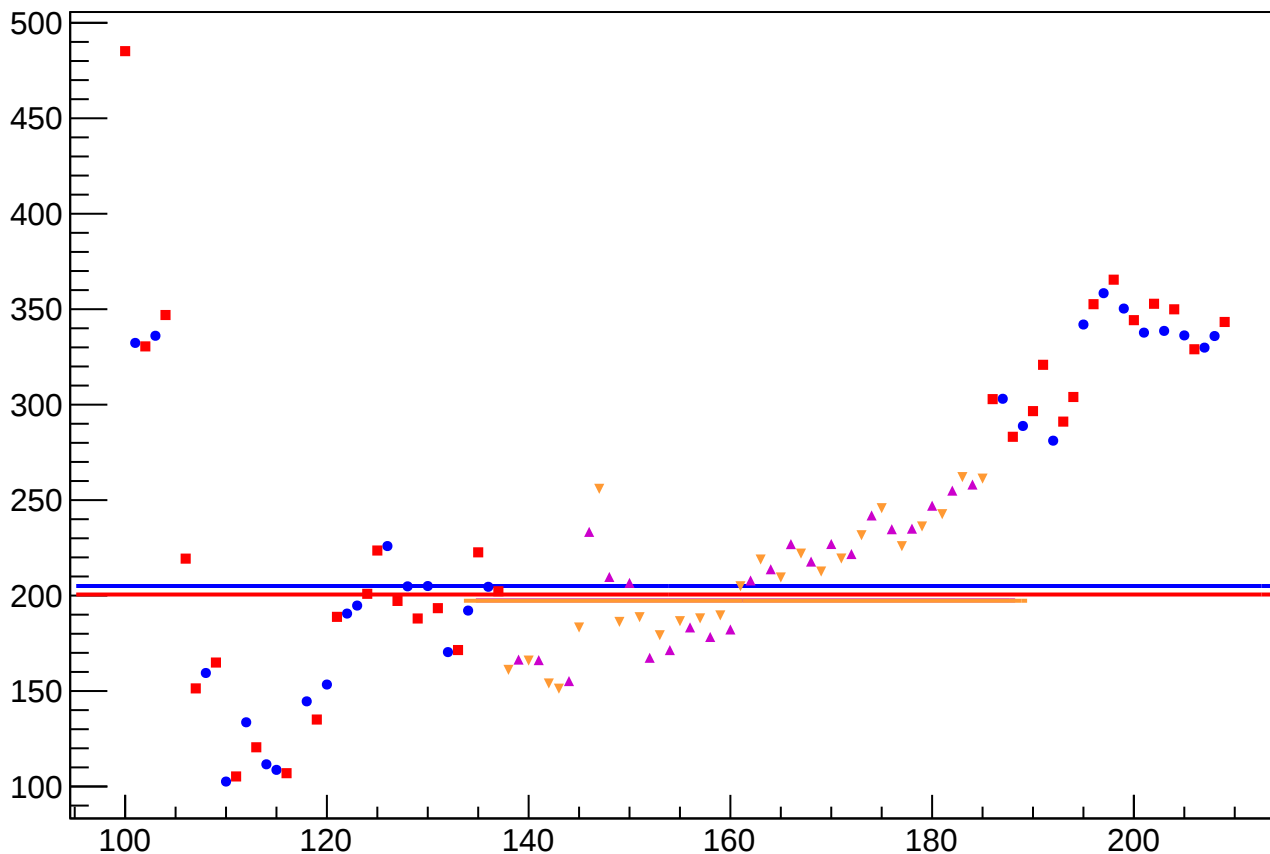
All: 442.230 $\pm$ 0.043 χ^2 /NDF: 9458178.6/107

yield_bpm0l04WS_mean vs Slug, Sign Corrected



Right In: 135027.393 $\pm$ 0.059 χ^2 /NDF: 4864867878.4/27
 Left Out: 127472.525 $\pm$ 0.047 χ^2 /NDF: 303609315.6/24
 Right Out: 135126.952 $\pm$ 0.056 χ^2 /NDF: 5237252975.0/31
 Left In: 127406.911 $\pm$ 0.048 χ^2 /NDF: 269927988.0/22
 Left: 127440.757 $\pm$ 0.034 χ^2 /NDF: 574486725.7/47
 Right: 135080.238 $\pm$ 0.041 χ^2 /NDF: 10103625251.3/24
 In: 130461.014 $\pm$ 0.037 χ^2 /NDF: 15085074808.4/5
 Out: 130651.142 $\pm$ 0.036 χ^2 /NDF: 16623028963.3/24
 All: 130560.249 $\pm$ 0.026 χ^2 /NDF: 317215653.3/24

yield_bpm0l04WS_rms vs Slug, Sign Corrected



Right In: 205.016+/-0.042 χ^2/NDF : 4149456.9/27

Left Out: 197.289+/-0.033 χ^2/NDF : 852024.1/24

Right Out: 200.555+/-0.039 χ^2/NDF : 4807404.1/31

Left In: 197.471+/-0.034 χ^2/NDF : 791577.5/22

Left: 197.377+/-0.024 χ^2/NDF : 1643616.2/47

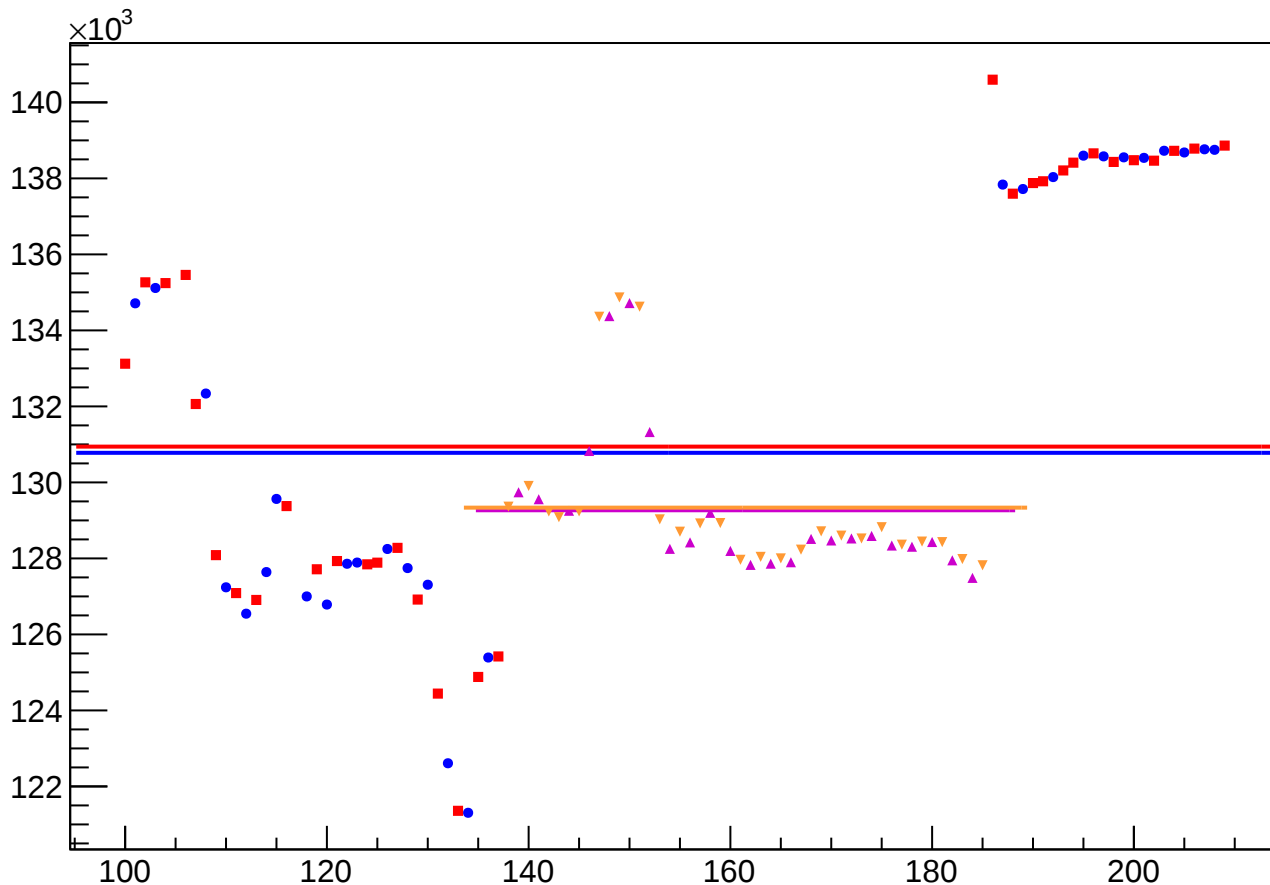
Right: 202.648+/-0.029 χ^2/NDF : 8962900.5/59

In: 200.495+/-0.026 χ^2/NDF : 4960541.6/50

Out: 198.646+/-0.025 χ^2/NDF : 5663463.5/56

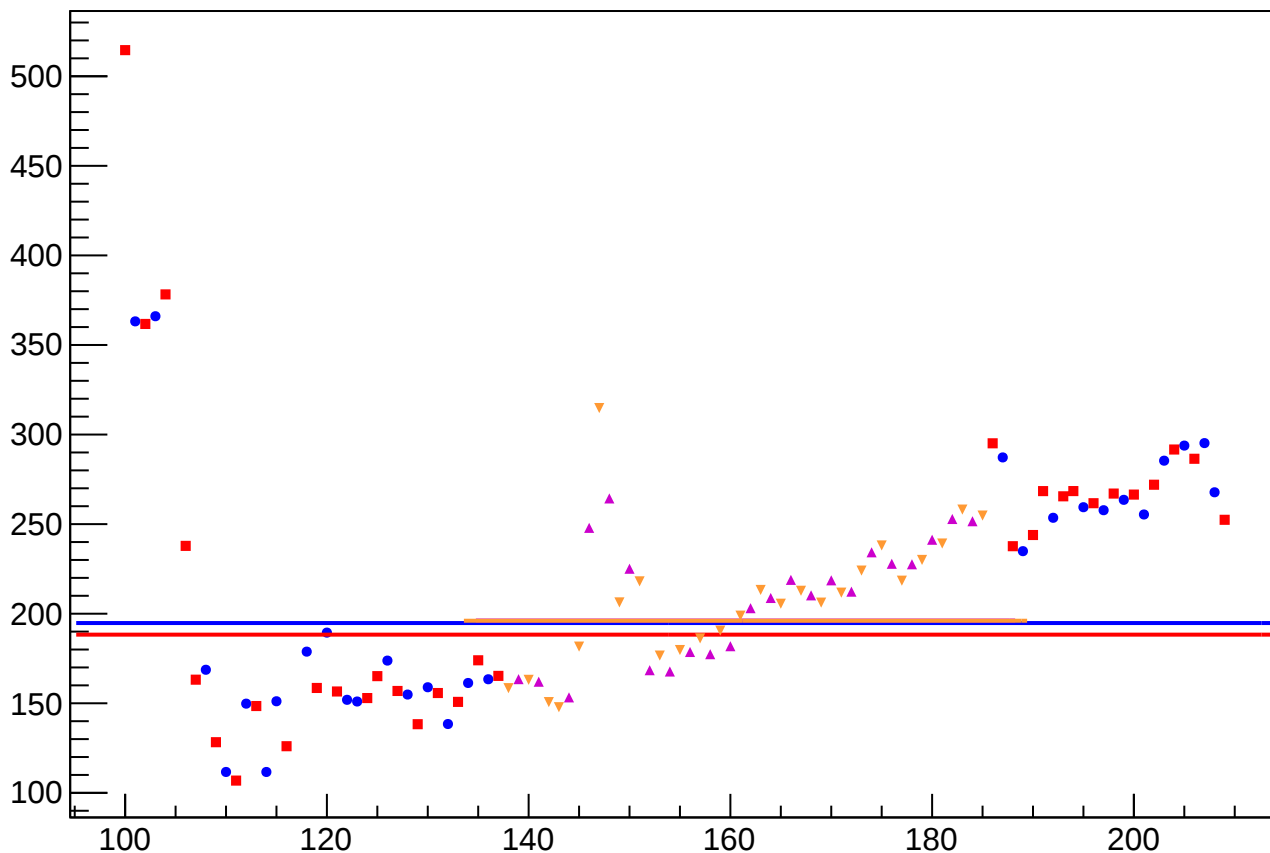
All: 199.530+/-0.018 χ^2/NDF : 10626552.0/100

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: 130866.033 $\pm$ 0.037	χ^2 /NDF: 23579505840.3/24
Right Out: 130941.801 $\pm$ 0.051	χ^2 /NDF: 12327080191.7/31	In: 129928.031 $\pm$ 0.036	χ^2 /NDF: 12892395248.7/31
Left In: 129266.909 $\pm$ 0.048	χ^2 /NDF: 1213762773.1/22	Out: 130071.251 $\pm$ 0.034	χ^2 /NDF: 14318813903.2/22
		All: 130003.125 $\pm$ 0.025	χ^2 /NDF: 272194522.0/22

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: 188.311+/-0.036 χ^2/NDF : 3280883.9/31

Left In: 196.186+/-0.034 χ^2/NDF : 898058.0/22

Left: 196.130+/-0.024 χ^2/NDF : 1873774.2/47

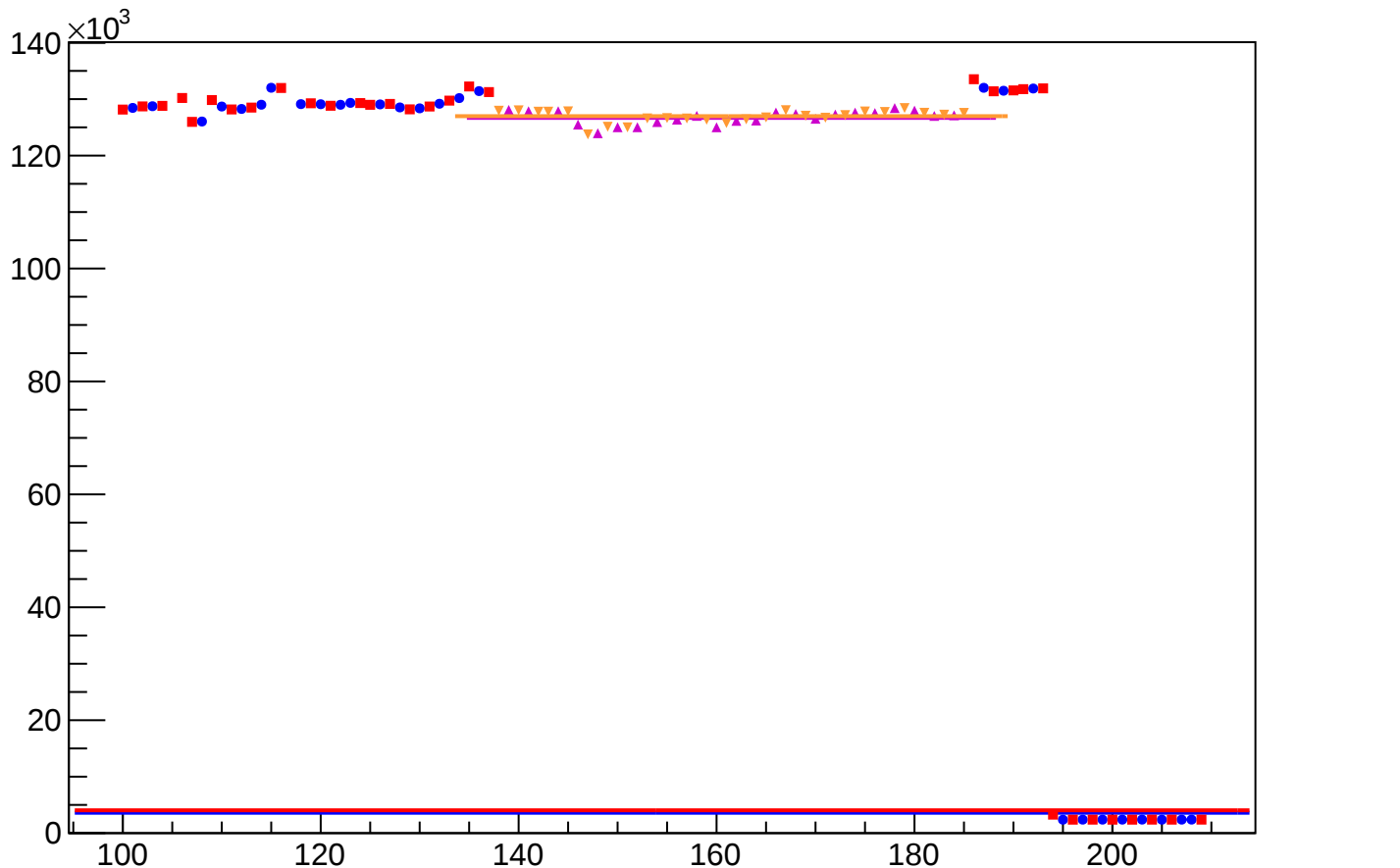
Right: 191.318+/-0.026 χ^2/NDF : 5939999.4/59

In: 195.575+/-0.026 χ^2/NDF : 3542842.8/50

Out: 192.521+/-0.024 χ^2/NDF : 4281894.3/56

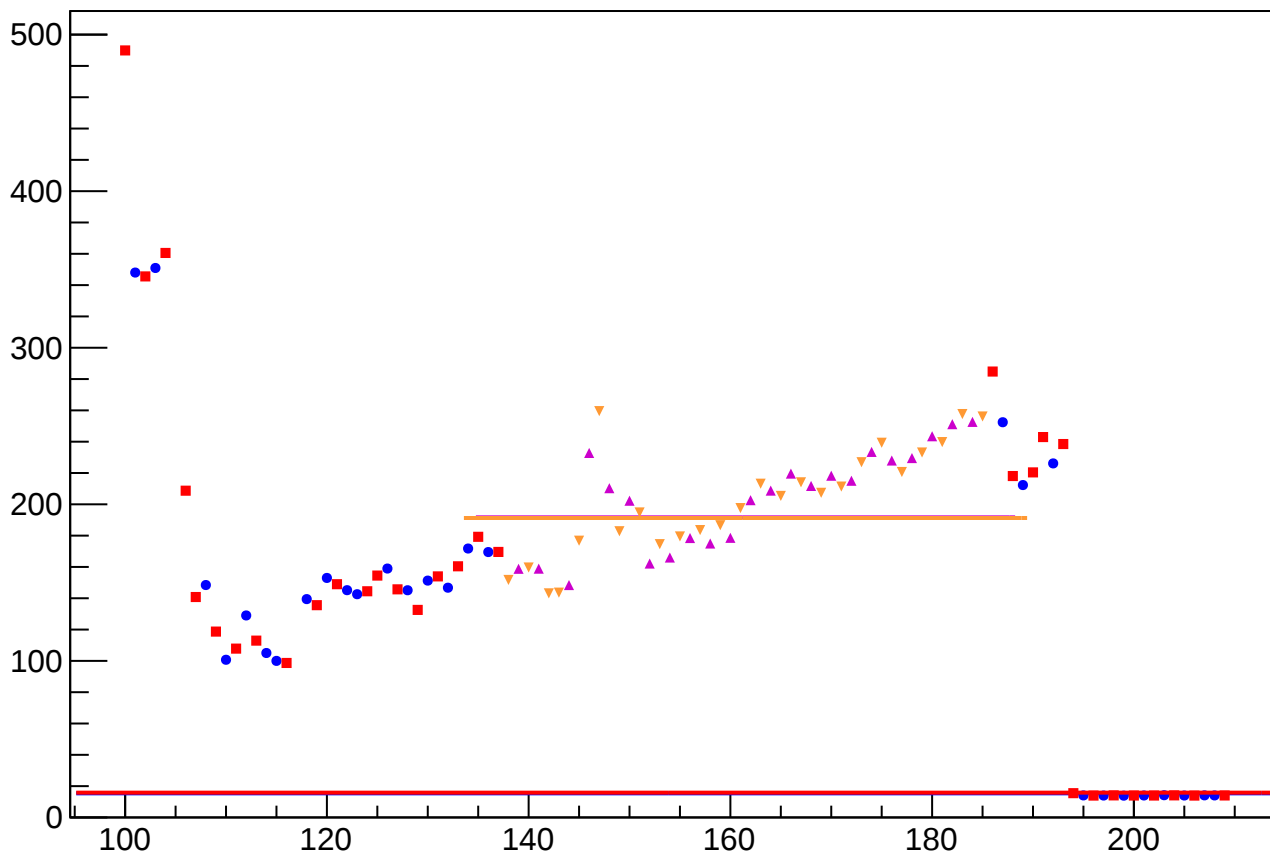
All: 193.974+/-0.018 χ^2/NDF : 7832230.9/107

yield_bpm0l06WS_mean vs Slug, Sign Corrected



Right In: 3612.635 $\pm$ 0.006	χ^2/NDF : 4884050626210.3/27	Left: 126836.943 $\pm$ 0.033	χ^2/NDF : 1211882944.2/24
Left Out: 126981.724 $\pm$ 0.046	χ^2/NDF : 530573115.8/24	Right: 3817.722 $\pm$ 0.004	χ^2/NDF : 10696780341225.3/24
Right Out: 4044.225 $\pm$ 0.006	χ^2/NDF : 5809917443772.3/31	In: 5342.043 $\pm$ 0.006	χ^2/NDF : 11647034828845.2/31
Left In: 126682.659 $\pm$ 0.047	χ^2/NDF : 660415880.0/22	Out: 6072.355 $\pm$ 0.006	χ^2/NDF : 12983266791690.0/22
		All: 5689.531 $\pm$ 0.004	χ^2/NDF : 24638479512.0/22

yield_bpm0l06WS_rms vs Slug, Sign Corrected



Right In: 15.401+/-0.004 χ^2/NDF : 13289508.8/27

Left Out: 191.263+/-0.032 χ^2/NDF : 992566.2/24

Right Out: 15.843+/-0.004 χ^2/NDF : 15574189.7/31

Left In: 191.683+/-0.033 χ^2/NDF : 864384.9/22

Left: 191.466+/-0.023 χ^2/NDF : 1857033.4/47

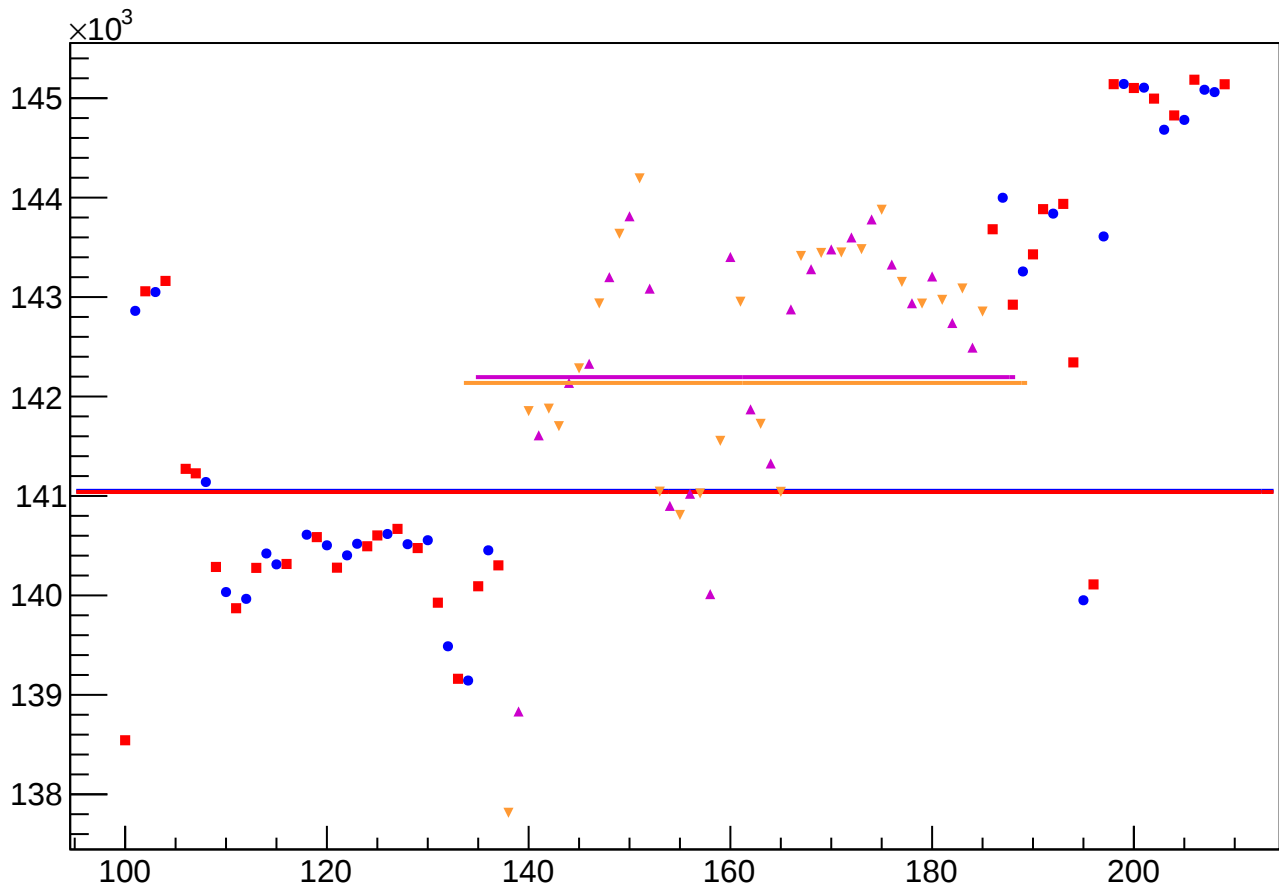
Right: 15.611+/-0.003 χ^2/NDF : 28869607.4/59

In: 17.878+/-0.004 χ^2/NDF : 41902272.3/50

Out: 18.737+/-0.004 χ^2/NDF : 45775327.7/56

All: 18.286+/-0.003 χ^2/NDF : 87700236.1/107

yield_bpm0l07WS_mean vs Slug, Sign Corrected



Right In: 141051.616 $\pm$ 0.058 χ^2 /NDF: 769057147.5/27

Left Out: 142136.579 $\pm$ 0.052 χ^2 /NDF: 815573343.0/24

Right Out: 141039.800 $\pm$ 0.053 χ^2 /NDF: 851427550.3/31

Left In: 142195.020 $\pm$ 0.054 χ^2 /NDF: 644030906.9/22

Left: 142164.953 $\pm$ 0.038 χ^2 /NDF: 1460209902.9/4

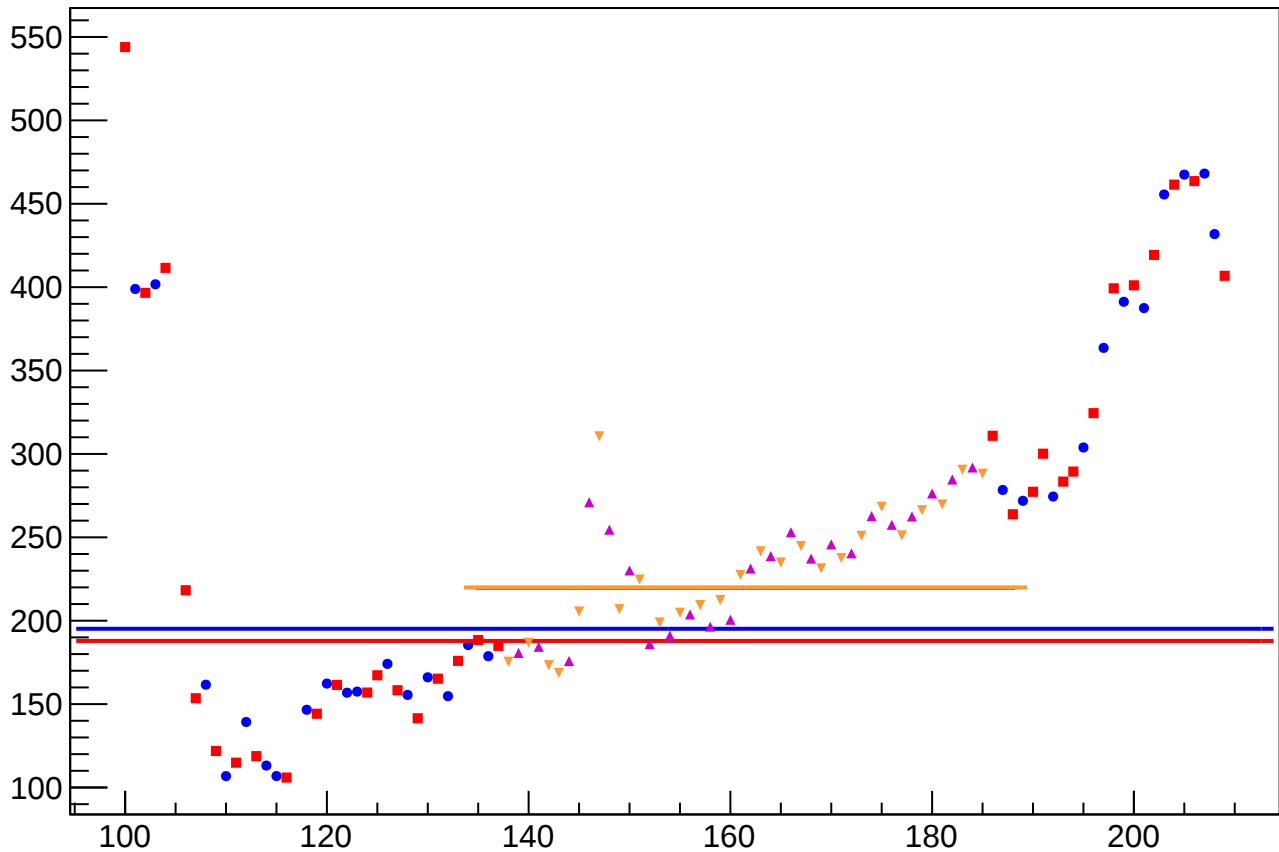
Right: 141045.226 $\pm$ 0.039 χ^2 /NDF: 1620507383.1/4

In: 141662.522 $\pm$ 0.039 χ^2 /NDF: 1622955943.1/50

Out: 141596.920 $\pm$ 0.037 χ^2 /NDF: 1883180392.5/50

All: 141627.944 $\pm$ 0.027 χ^2 /NDF: 350759974.0/100

yield_bpm0l07WS_rms vs Slug, Sign Corrected



Right In: 195.171+/-0.041 χ^2/NDF : 5437074.7/27

Left Out: 219.969+/-0.037 χ^2/NDF : 866616.3/24

Right Out: 187.874+/-0.038 χ^2/NDF : 6003509.3/31

Left In: 219.685+/-0.038 χ^2/NDF : 812745.1/22

Left: 219.831+/-0.027 χ^2/NDF : 1679390.1/47

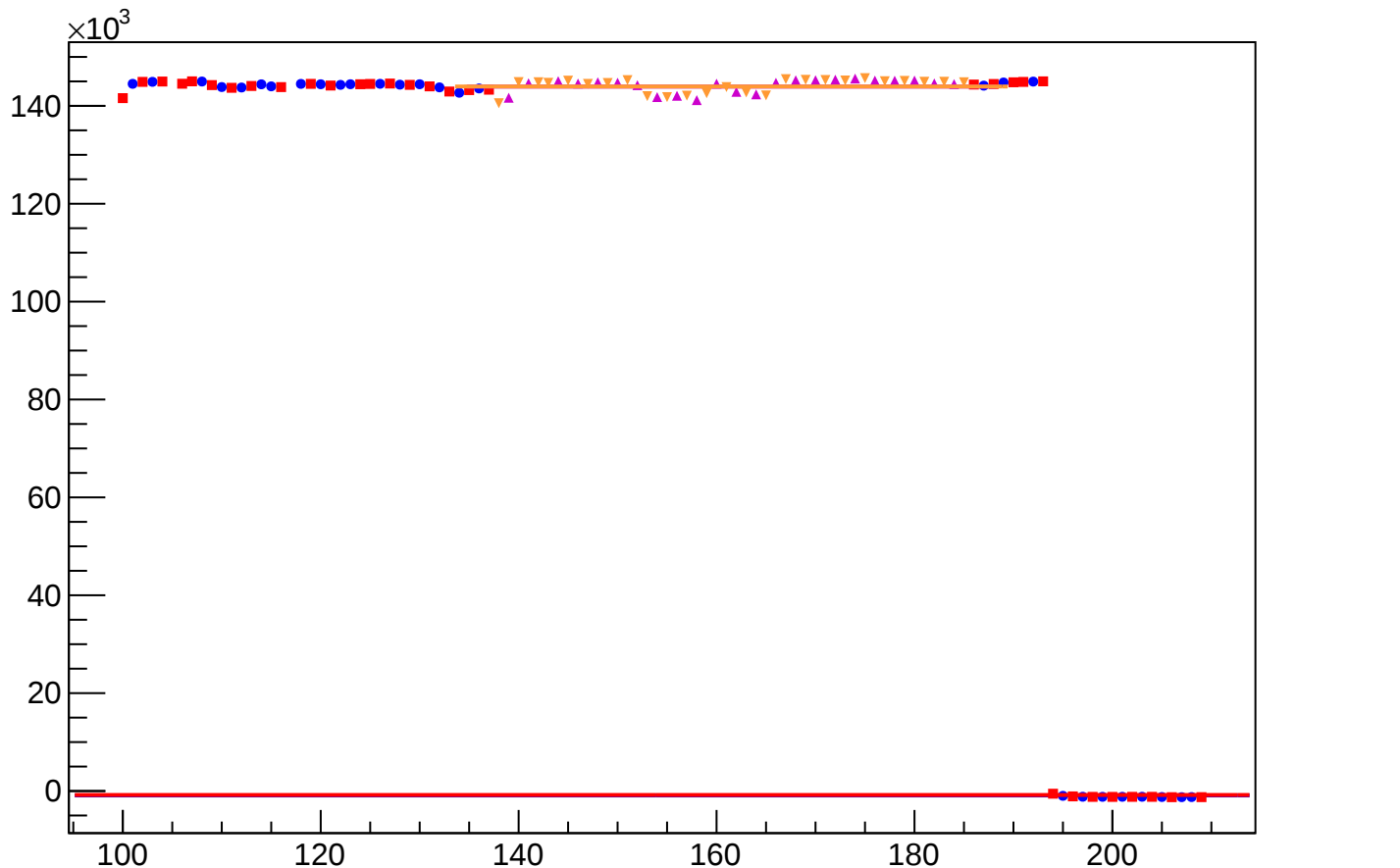
Right: 191.225+/-0.028 χ^2/NDF : 11457883.8/59

In: 208.268+/-0.028 χ^2/NDF : 6442749.1/50

Out: 204.177+/-0.026 χ^2/NDF : 7240360.6/56

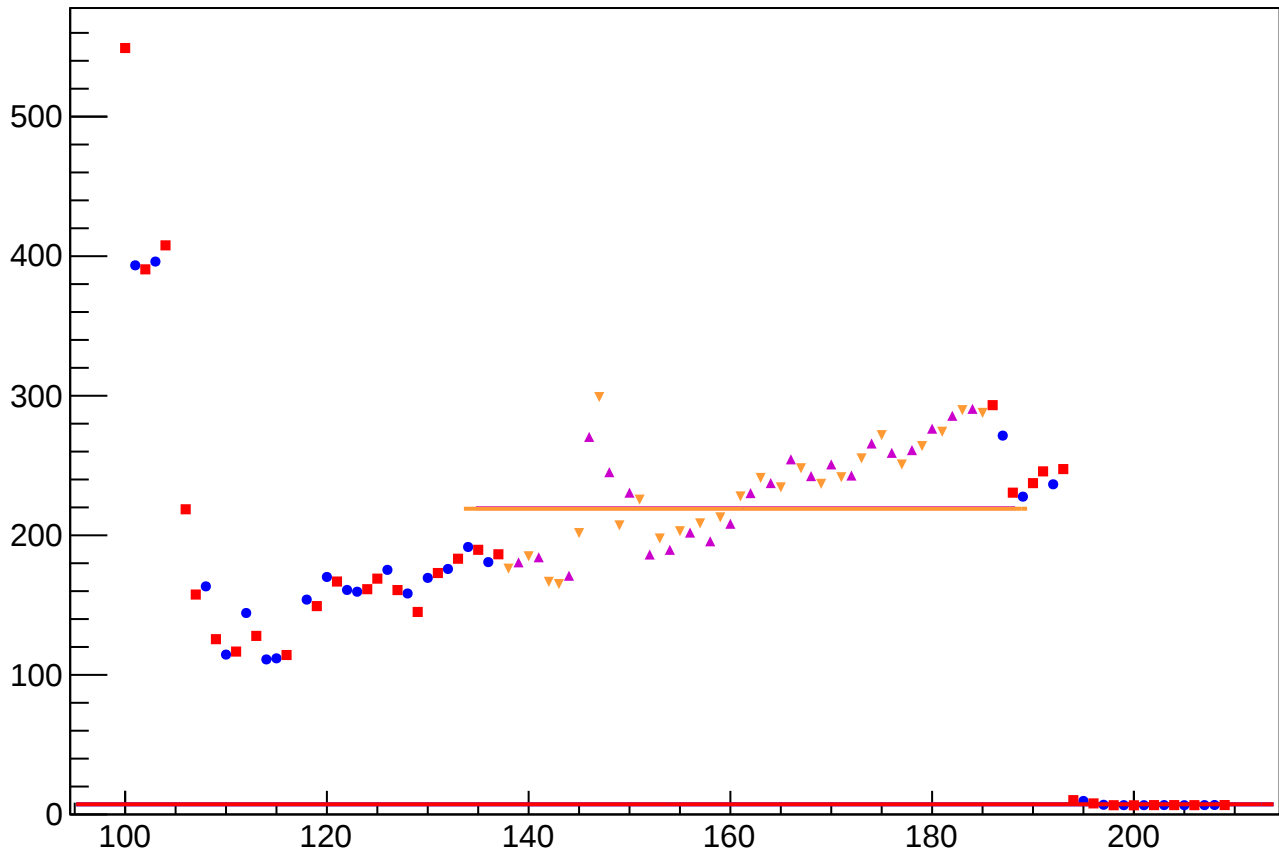
All: 206.112+/-0.019 χ^2/NDF : 13694491.7/100

yield_bpm0l08WS_mean vs Slug, Sign Corrected



Right In: -903.231 ± 0.003 $\chi^2/\text{NDF}: 5297596909411.1/27$ Left: 143944.995 ± 0.037 $\chi^2/\text{NDF}: 1584524299.4/27$
 Left Out: 143951.284 ± 0.052 $\chi^2/\text{NDF}: 864679545.2/24$ Right: -858.613 ± 0.002 $\chi^2/\text{NDF}: 11699920492957$
 Right Out: -810.011 ± 0.003 $\chi^2/\text{NDF}: 6401790964793.8/31$ In: -514.100 ± 0.003 $\chi^2/\text{NDF}: 12515843074110.9/31$
 Left In: 143938.288 ± 0.054 $\chi^2/\text{NDF}: 719814685.6/22$ Out: -358.399 ± 0.003 $\chi^2/\text{NDF}: 14088257809895.3$
 All: -439.559 ± 0.002 $\chi^2/\text{NDF}: 26605591116$

yield_bpm0l08WS_rms vs Slug, Sign Corrected



Right In: 7.244+/-0.002 χ^2/NDF : 14922108.5/27

Left Out: 219.050+/-0.037 χ^2/NDF : 934417.6/24

Right Out: 7.293+/-0.002 χ^2/NDF : 17459857.3/31

Left In: 219.426+/-0.038 χ^2/NDF : 850089.5/22

Left: 219.232+/-0.026 χ^2/NDF : 1784557.4/47

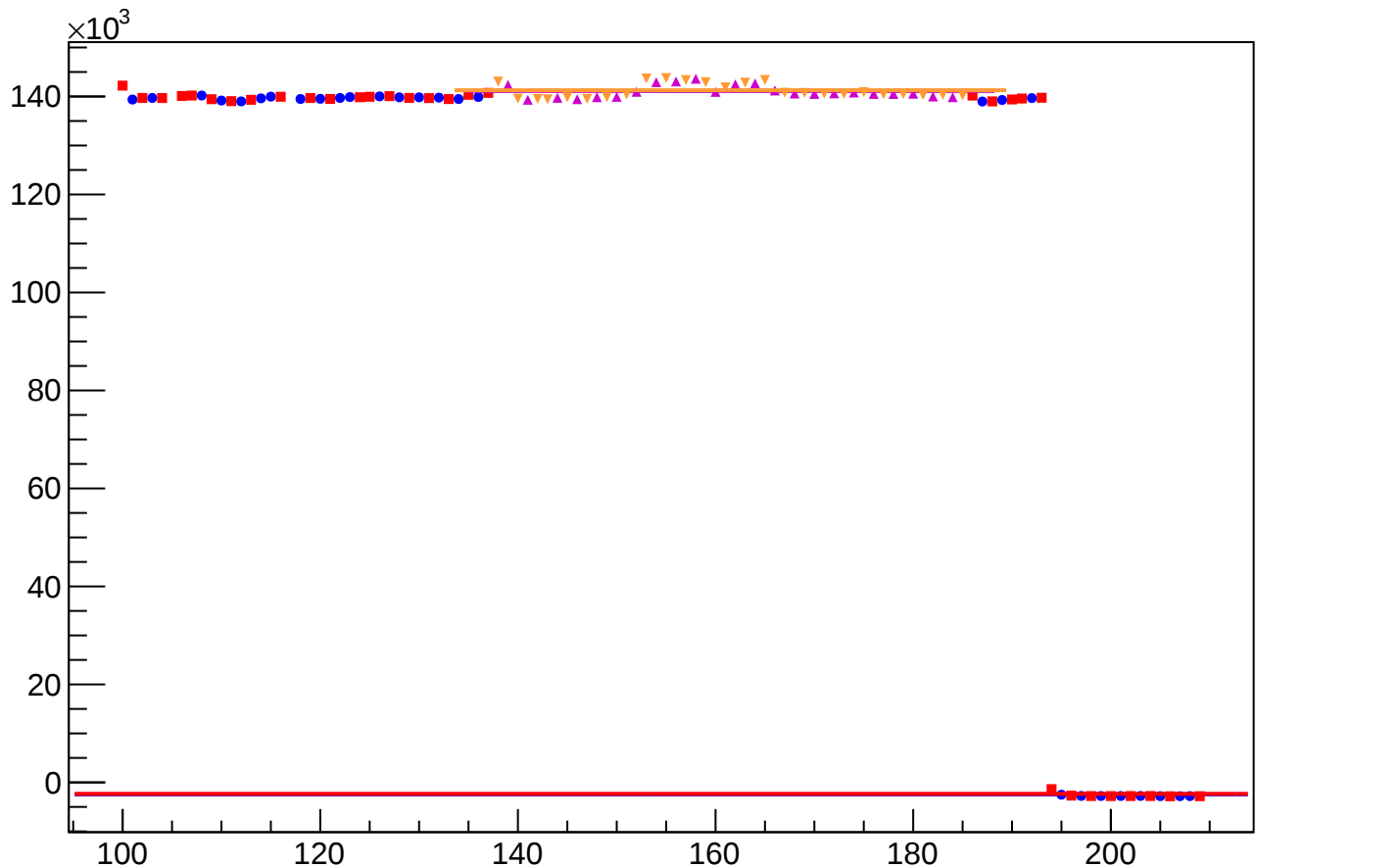
Right: 7.268+/-0.001 χ^2/NDF : 32382263.7/59

In: 7.814+/-0.002 χ^2/NDF : 46749779.4/50

Out: 7.954+/-0.002 χ^2/NDF : 51285137.2/56

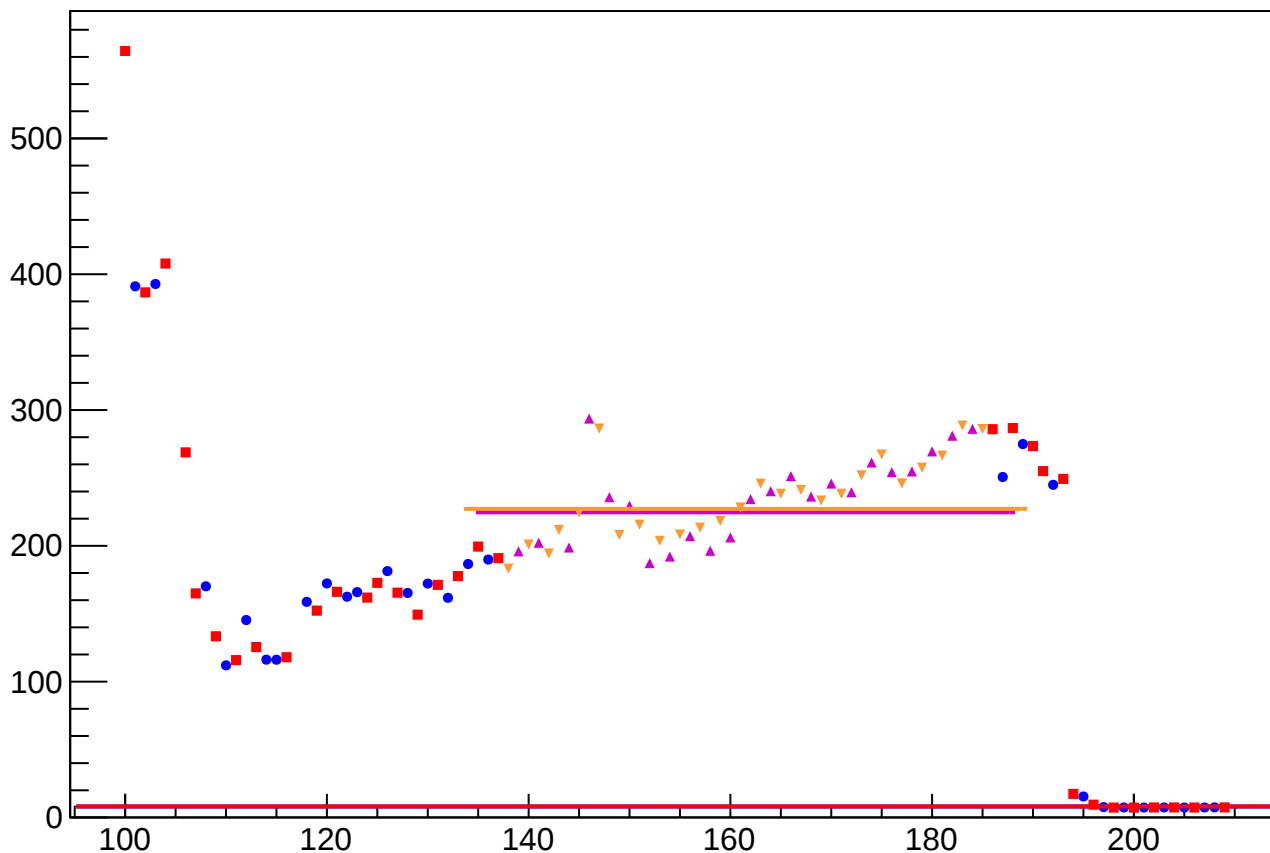
All: 7.881+/-0.001 χ^2/NDF : 98037321.5/107

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: -2390.845 $\pm$ 0.002	χ^2 /NDF: 1065685460589
Right Out: -2338.536 $\pm$ 0.003	χ^2 /NDF: 5790451540739.2/31	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: -1809.478 $\pm$ 0.003	χ^2 /NDF: 12916794916529
		All: -1894.331 $\pm$ 0.002	χ^2 /NDF: 2459639151

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: 8.112 ± 0.002 χ^2/NDF : 17501208.2/31

Left In: 224.686 ± 0.039 χ^2/NDF : 578366.0/22

Left: 225.984 ± 0.027 χ^2/NDF : 1065504.5/47

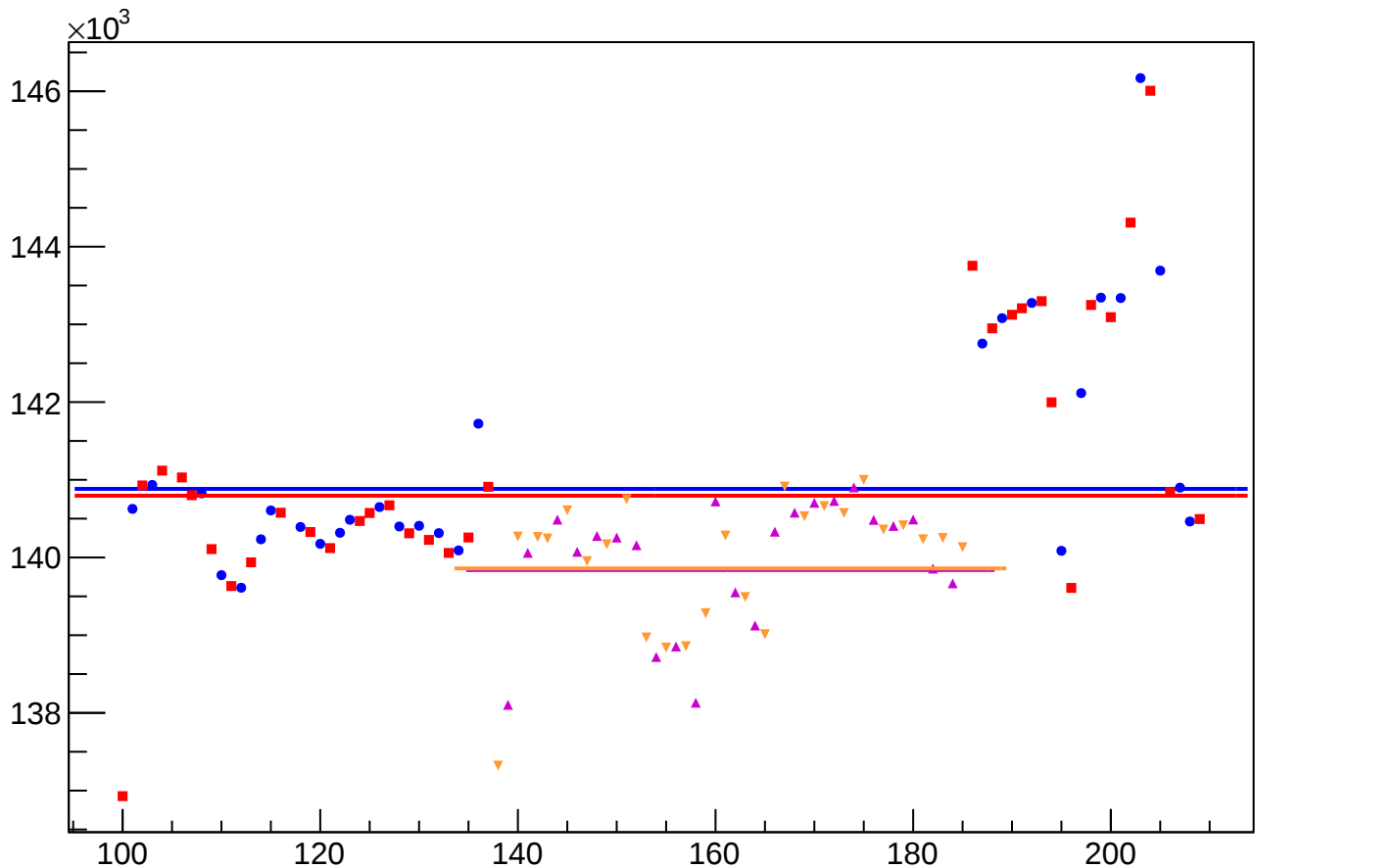
Right: 8.082 ± 0.002 χ^2/NDF : 32581385.5/59

In: 8.758 ± 0.002 χ^2/NDF : 46681032.8/50

Out: 8.920 ± 0.002 χ^2/NDF : 51162326.2/56

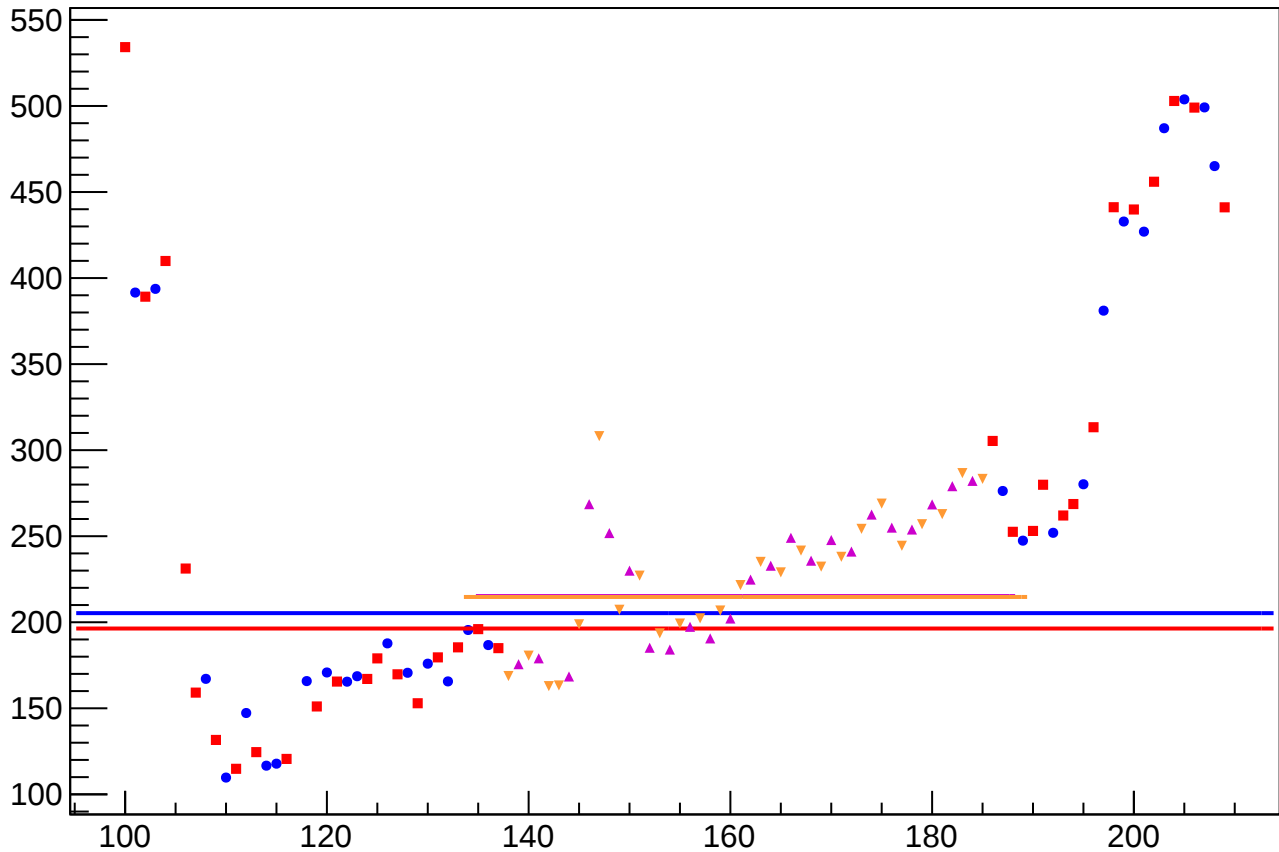
All: 8.836 ± 0.002 χ^2/NDF : 97845915.1/107

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: 140835.371 $\pm$ 0.041	χ^2 /NDF: 934606071.3/50
Right Out: 140795.486 $\pm$ 0.055	χ^2 /NDF: 504720314.2/31	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: 140291.116 $\pm$ 0.038	χ^2 /NDF: 989466362.9/56
		All: 140290.918 $\pm$ 0.027	χ^2 /NDF: 186710895

yield_bpm0l10WS_rms vs Slug, Sign Corrected



Right In: 205.295 $\pm$ 0.043 χ^2 /NDF: 5175910.2/27

Left Out: 214.693 $\pm$ 0.036 χ^2 /NDF: 981105.5/24

Right Out: 196.355 $\pm$ 0.039 χ^2 /NDF: 5660926.5/31

Left In: 215.222 $\pm$ 0.037 χ^2 /NDF: 881945.0/22

Left: 214.949 $\pm$ 0.026 χ^2 /NDF: 1863154.2/47

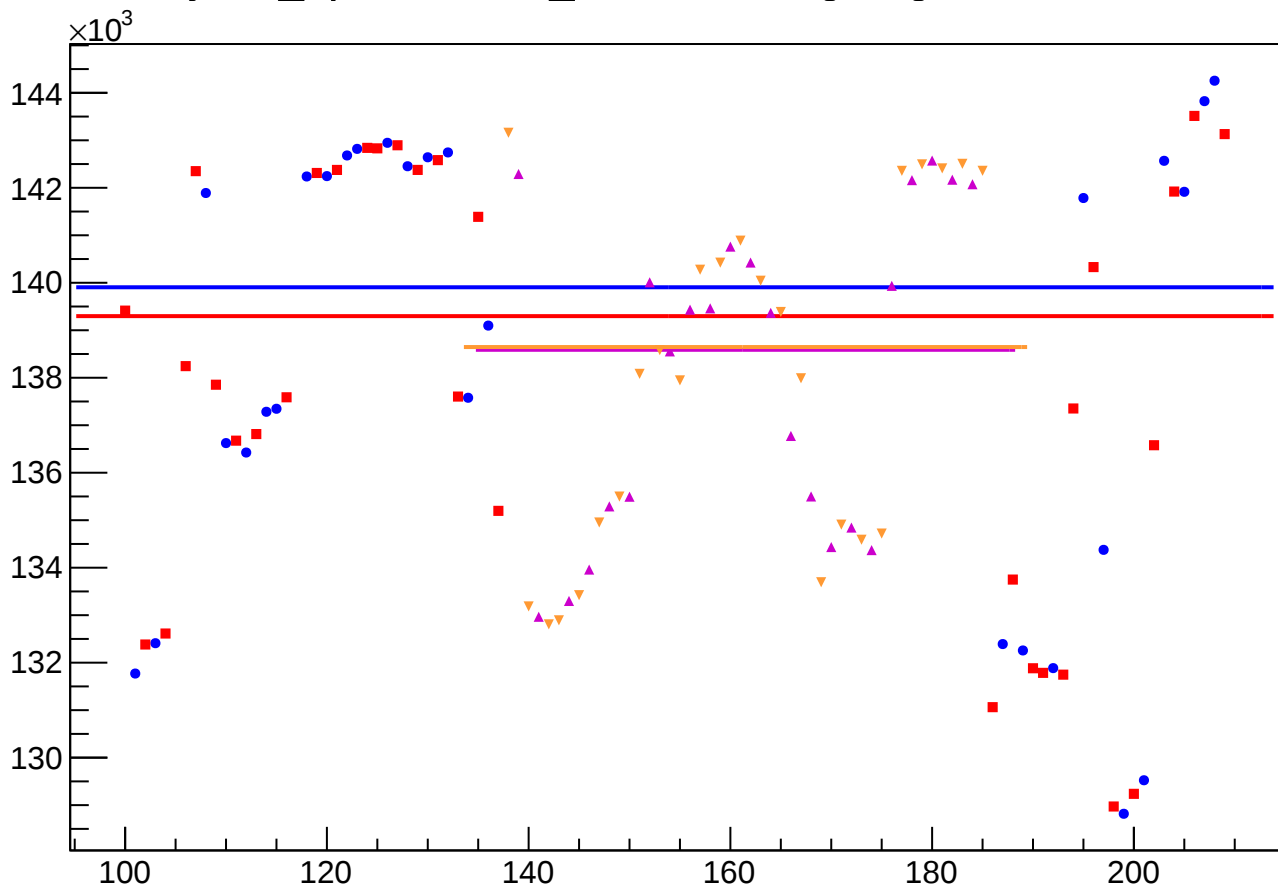
Right: 200.424 $\pm$ 0.029 χ^2 /NDF: 10860674.6/59

In: 210.926 $\pm$ 0.028 χ^2 /NDF: 6088449.5/50

Out: 206.238 $\pm$ 0.027 χ^2 /NDF: 6760792.3/56

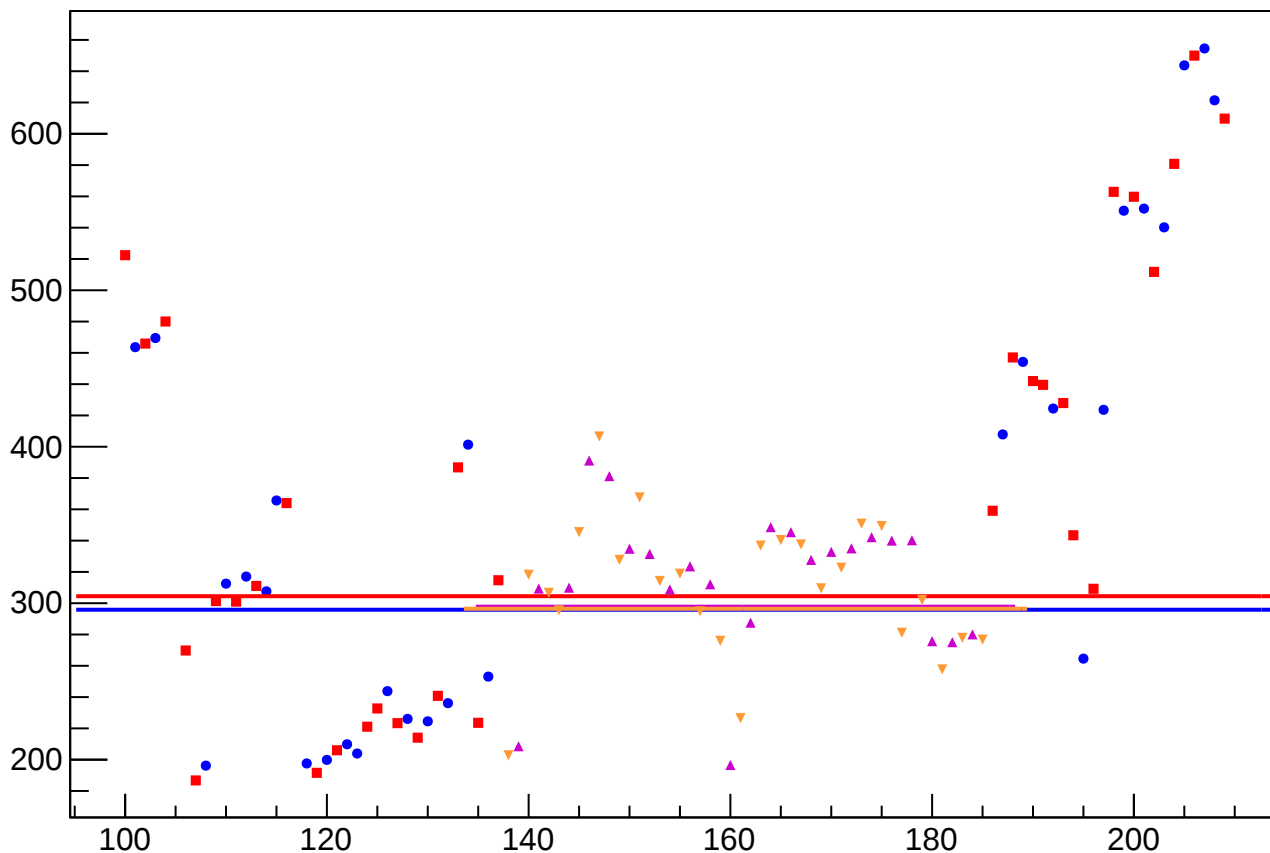
All: 208.446 $\pm$ 0.019 χ^2 /NDF: 12863946.3/10

yield_bpm0r03WS_mean vs Slug, Sign Corrected



Right In: 139905.186 $\pm$ 0.086 χ^2 /NDF: 2257007313.8/27
 Left Out: 138646.366 $\pm$ 0.071 χ^2 /NDF: 2548637600.4/24
 Right Out: 139297.489 $\pm$ 0.084 χ^2 /NDF: 2417328161.0/31
 Left In: 138588.711 $\pm$ 0.074 χ^2 /NDF: 1948065195.1/22
 Left: 138618.660 $\pm$ 0.051 χ^2 /NDF: 4497021019.3/4
 Right: 139593.847 $\pm$ 0.060 χ^2 /NDF: 4700139140.7/4
 In: 139148.607 $\pm$ 0.056 χ^2 /NDF: 4340912587.5/50
 Out: 138918.756 $\pm$ 0.054 χ^2 /NDF: 5001297966.7/5
 All: 139029.901 $\pm$ 0.039 χ^2 /NDF: 935096007.0/100

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: 304.479+/-0.059 χ^2/NDF : 4156496.5/31

Left In: 297.774+/-0.052 χ^2/NDF : 1061489.5/22

Left: 297.094+/-0.036 χ^2/NDF : 1955397.8/47

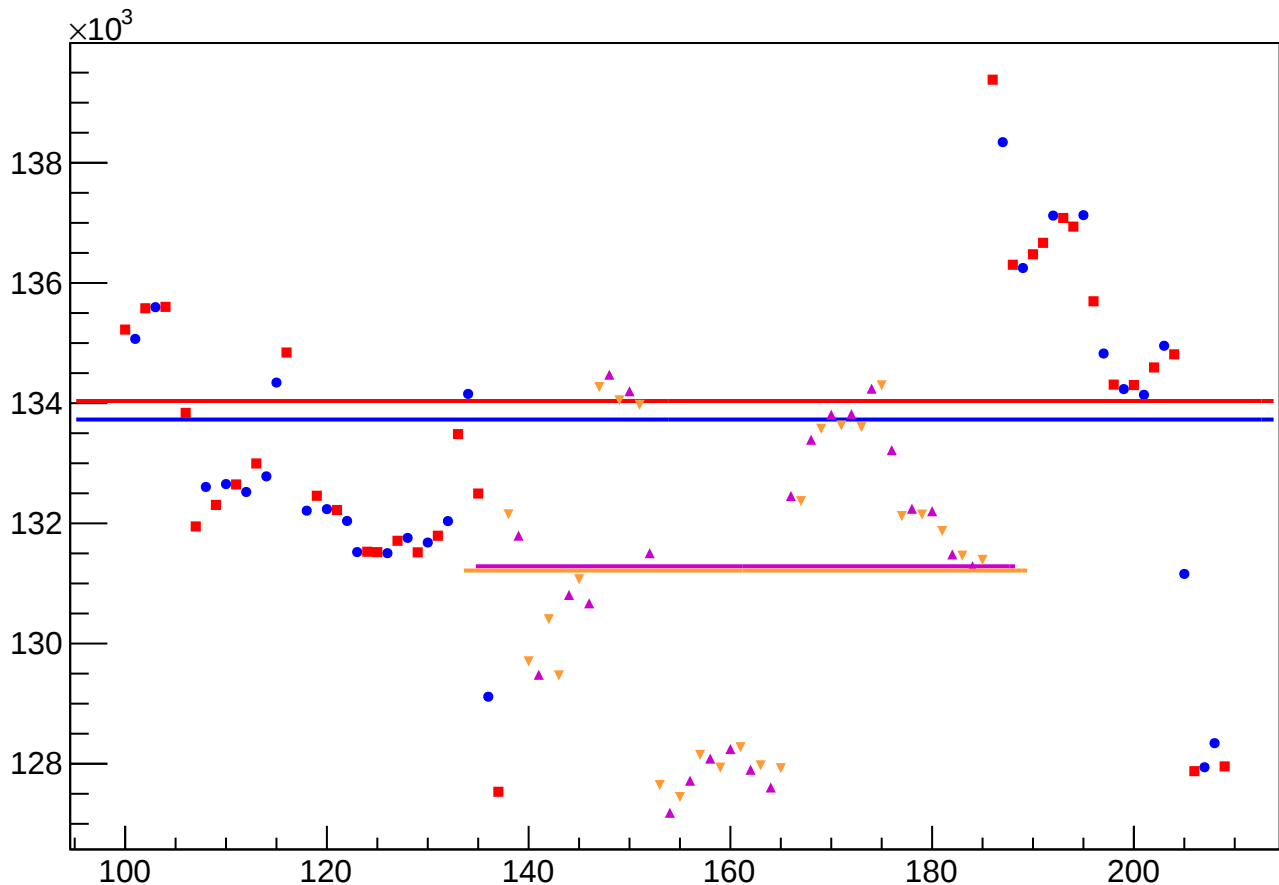
Right: 300.263+/-0.042 χ^2/NDF : 8287640.1/59

In: 296.949+/-0.039 χ^2/NDF : 5182778.6/50

Out: 299.817+/-0.038 χ^2/NDF : 5060782.0/56

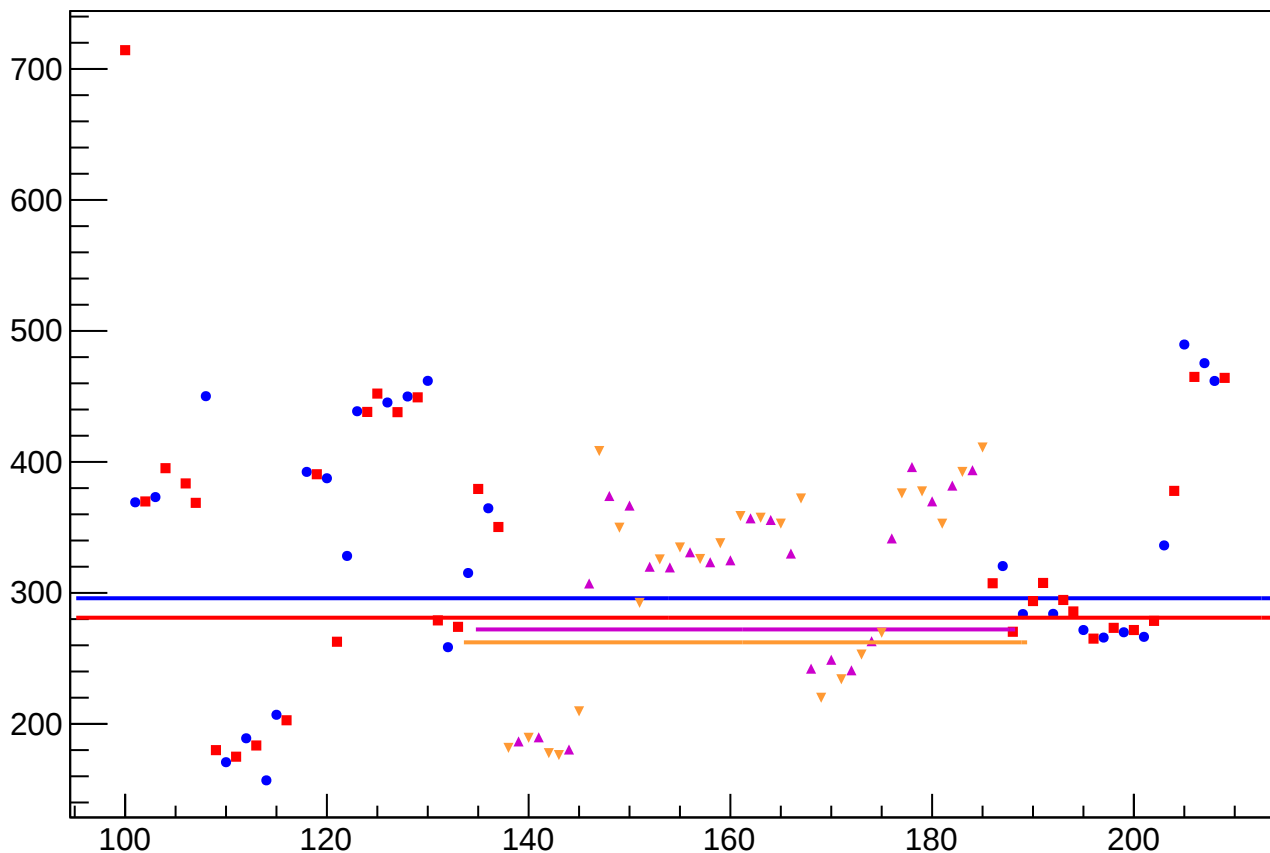
All: 298.430+/-0.027 χ^2/NDF : 10246285.7/10

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: 133896.632 $\pm$ 0.055	χ^2 /NDF: 1821695340.2/4
Right Out: 134036.026 $\pm$ 0.075	χ^2 /NDF: 976356731.4/31	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: 132419.560 $\pm$ 0.049	χ^2 /NDF: 2971278523.3/5
		All: 132358.166 $\pm$ 0.036	χ^2 /NDF: 539215658.0/100

yield_bpm0r05WS_rms vs Slug, Sign Corrected



Right In: 295.922 $\pm$ 0.058 χ^2 /NDF: 2261752.6/27

Left Out: 262.260 $\pm$ 0.045 χ^2 /NDF:2818169.1/24

Right Out: 281.071 $\pm$ 0.053 χ^2 /NDF: 2311343.8/31

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

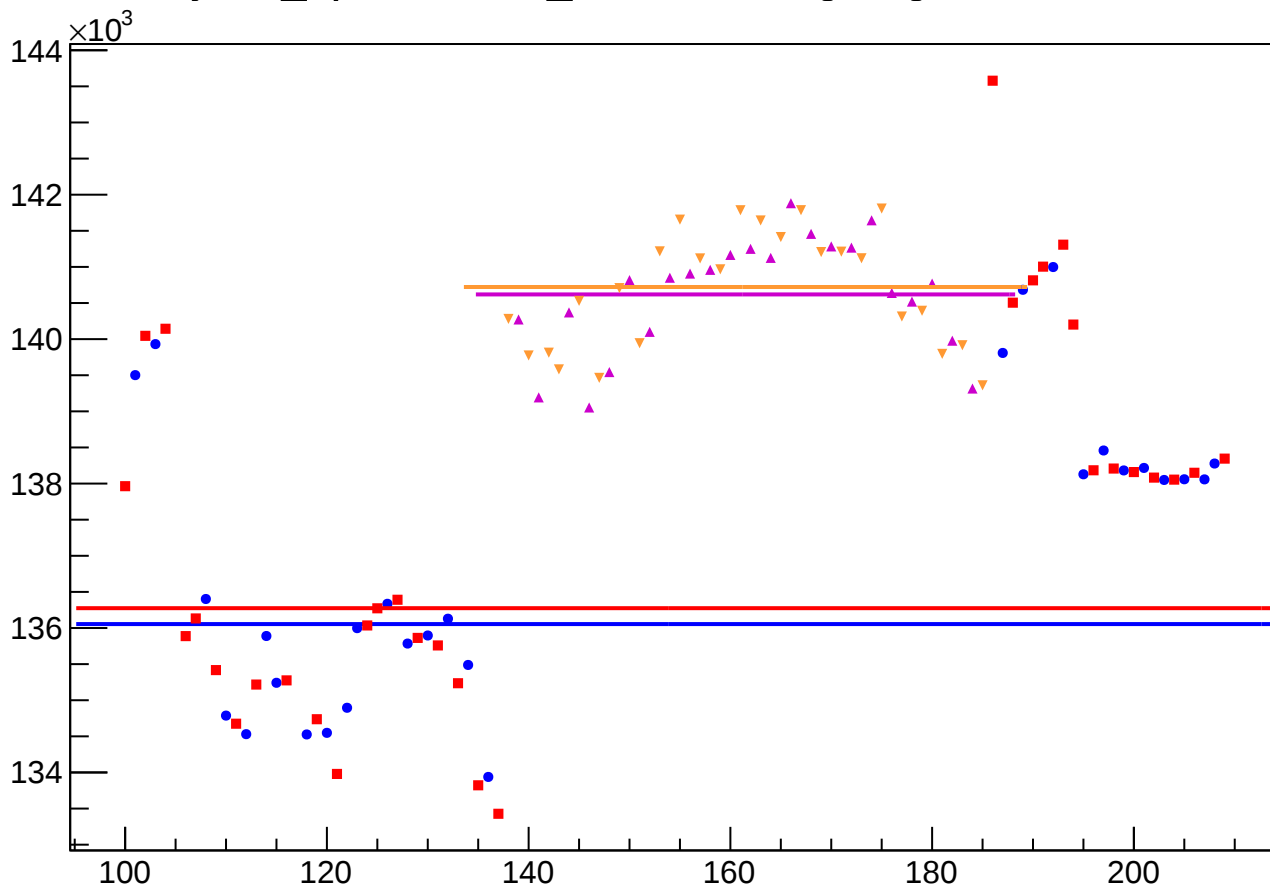
Right: 287.789 $\pm$ 0.039 χ^2 /NDF: 4609040.7/59

In: 281.875 $\pm$ 0.037 χ^2 /NDF:4583195.6/50

Out: 270.292 $\pm$ 0.034 χ^2 /NDF:5202570.5/56

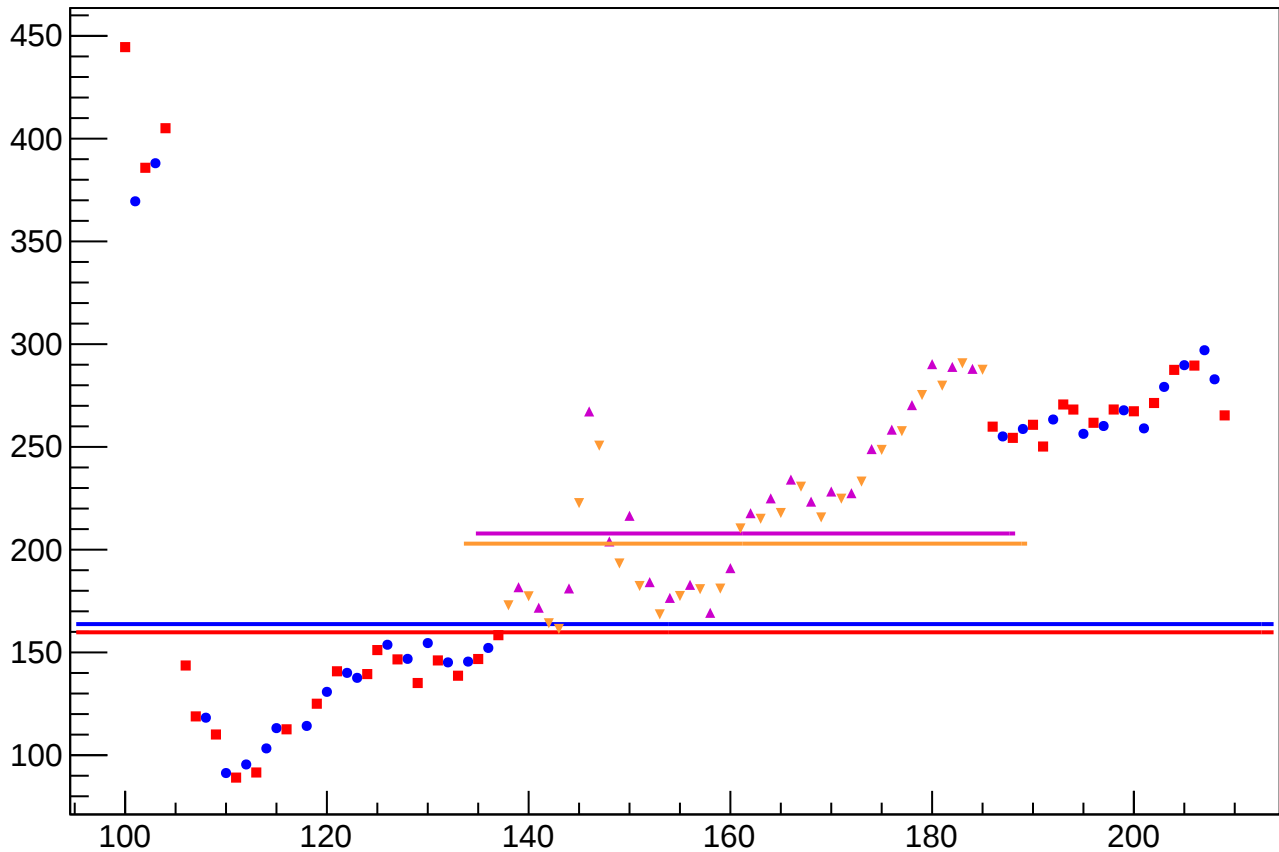
All: 275.648 $\pm$ 0.025 χ^2 /NDF: 9838112.0/107

yield_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 136054.553 $\pm$ 0.047	χ^2 /NDF: 1489693557.7/27	Left: 140673.196 $\pm$ 0.035	χ^2 /NDF: 449761004.9/47
Left Out: 140721.823 $\pm$ 0.048	χ^2 /NDF: 247257762.8/24	Right: 136171.541 $\pm$ 0.033	χ^2 /NDF: 3641559035.6/24
Right Out: 136274.693 $\pm$ 0.045	χ^2 /NDF: 2140448915.3/31	In: 138170.792 $\pm$ 0.035	χ^2 /NDF: 5972117401.5/50
Left In: 140619.038 $\pm$ 0.051	χ^2 /NDF: 200370178.0/22	Out: 138316.473 $\pm$ 0.033	χ^2 /NDF: 6952802187.5/50
		All: 138247.907 $\pm$ 0.024	χ^2 /NDF: 129342044.0/100

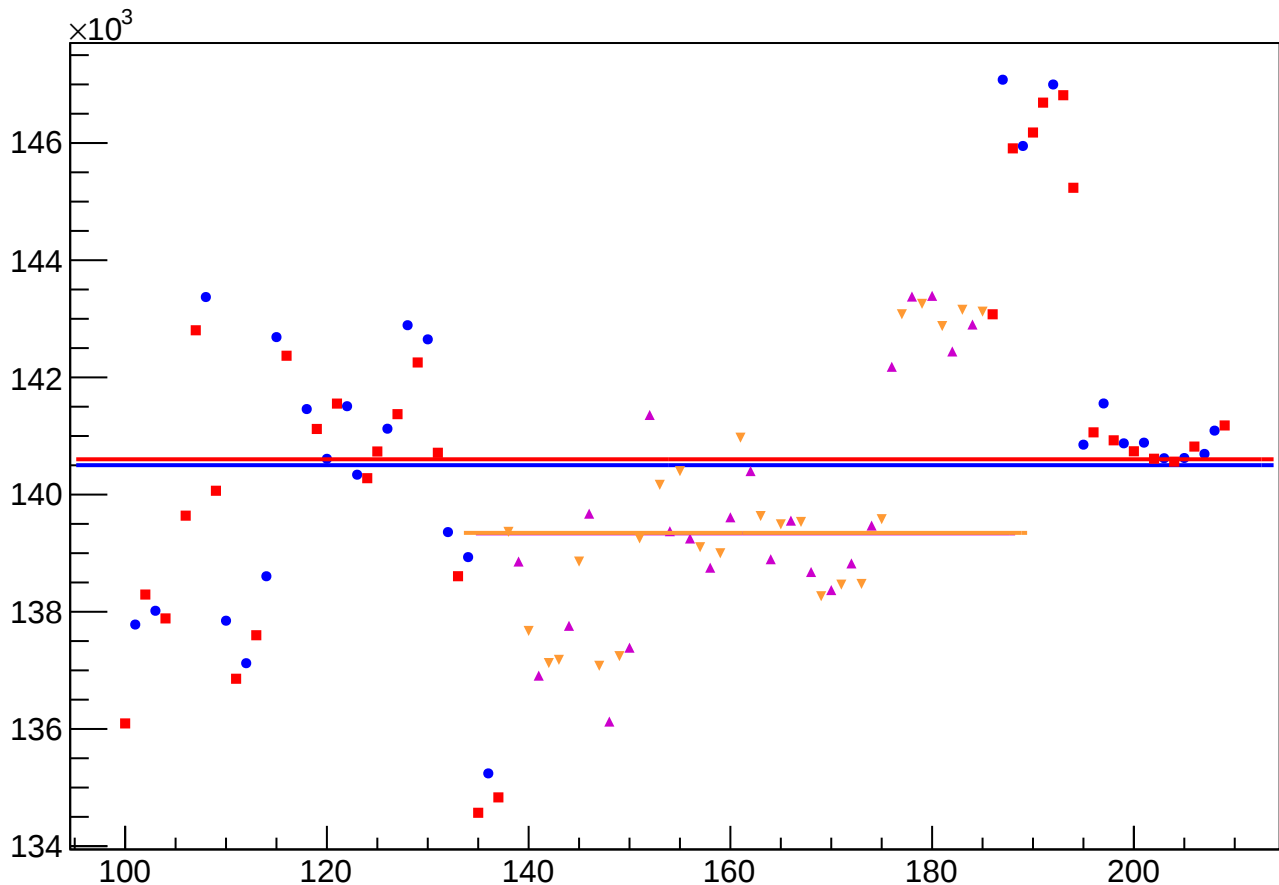
yield_bpm0i02WS_rms vs Slug, Sign Corrected



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: 159.791 $\pm$ 0.032 χ^2/NDF : 5186323.6/31
 Left In: 207.872 $\pm$ 0.036 χ^2/NDF :949200.3/22

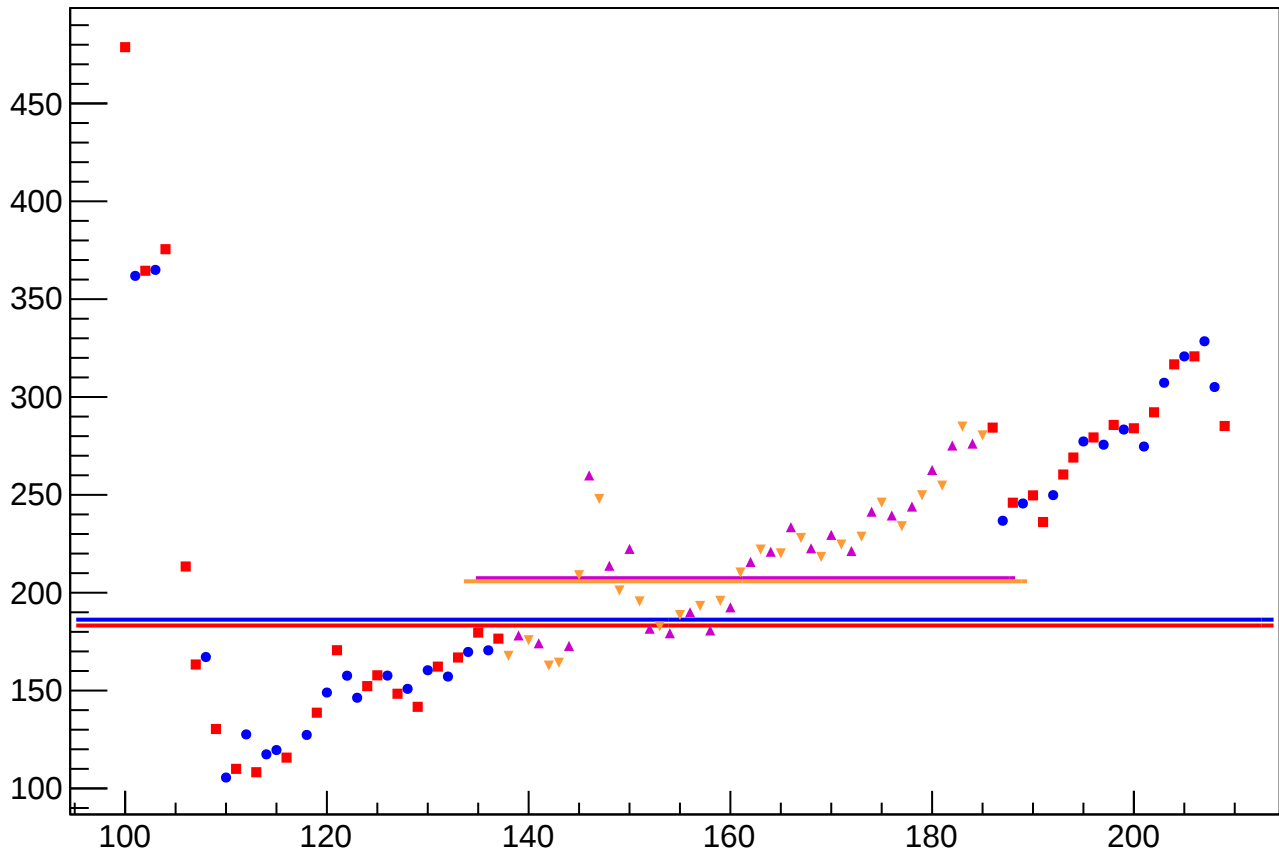
Left: 205.270 $\pm$ 0.025 χ^2/NDF : 2011329.4/47
 Right: 161.662 $\pm$ 0.023 χ^2/NDF : 9744270.1/59
 In: 184.225 $\pm$ 0.025 χ^2/NDF :6298592.0/50
 Out: 179.599 $\pm$ 0.023 χ^2/NDF :7097920.2/56
 All: 181.776 $\pm$ 0.017 χ^2/NDF : 13415237.6/10

yield_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 140501.959+/-0.053	χ^2/NDF : 2773668870.2/27	Left: 139342.403+/-0.035	χ^2/NDF : 2564192227.9/4
Left Out: 139346.604+/-0.049	χ^2/NDF : 1271172976.7/24	Right: 140555.087+/-0.036	χ^2/NDF : 5990373911.0/4
Right Out: 140602.511+/-0.050	χ^2/NDF : 3214802992.8/31	In: 139895.733+/-0.037	χ^2/NDF : 4317930426.1/50
Left In: 139337.874+/-0.051	χ^2/NDF : 1293003954.9/22	Out: 139960.543+/-0.035	χ^2/NDF : 4807570513.0/5
		All: 139929.656+/-0.025	χ^2/NDF : 912713432

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: 183.245+/-0.035 χ^2/NDF : 4069621.4/31

Left In: 207.416+/-0.036 χ^2/NDF : 701955.3/22

Left: 206.595+/-0.025 χ^2/NDF : 1441628.2/47

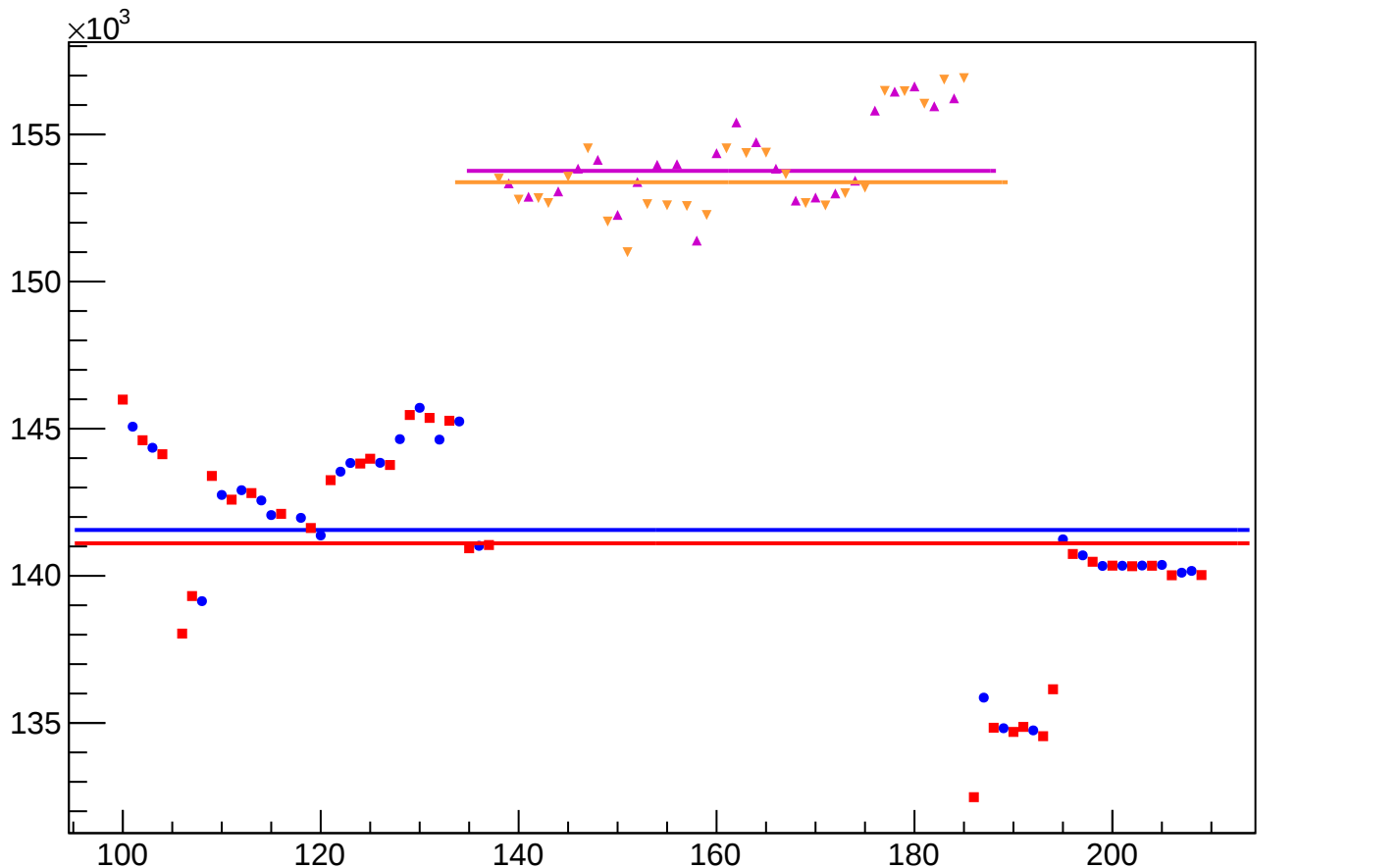
Right: 184.654+/-0.026 χ^2/NDF : 7675190.0/59

In: 197.265+/-0.026 χ^2/NDF : 4470569.1/50

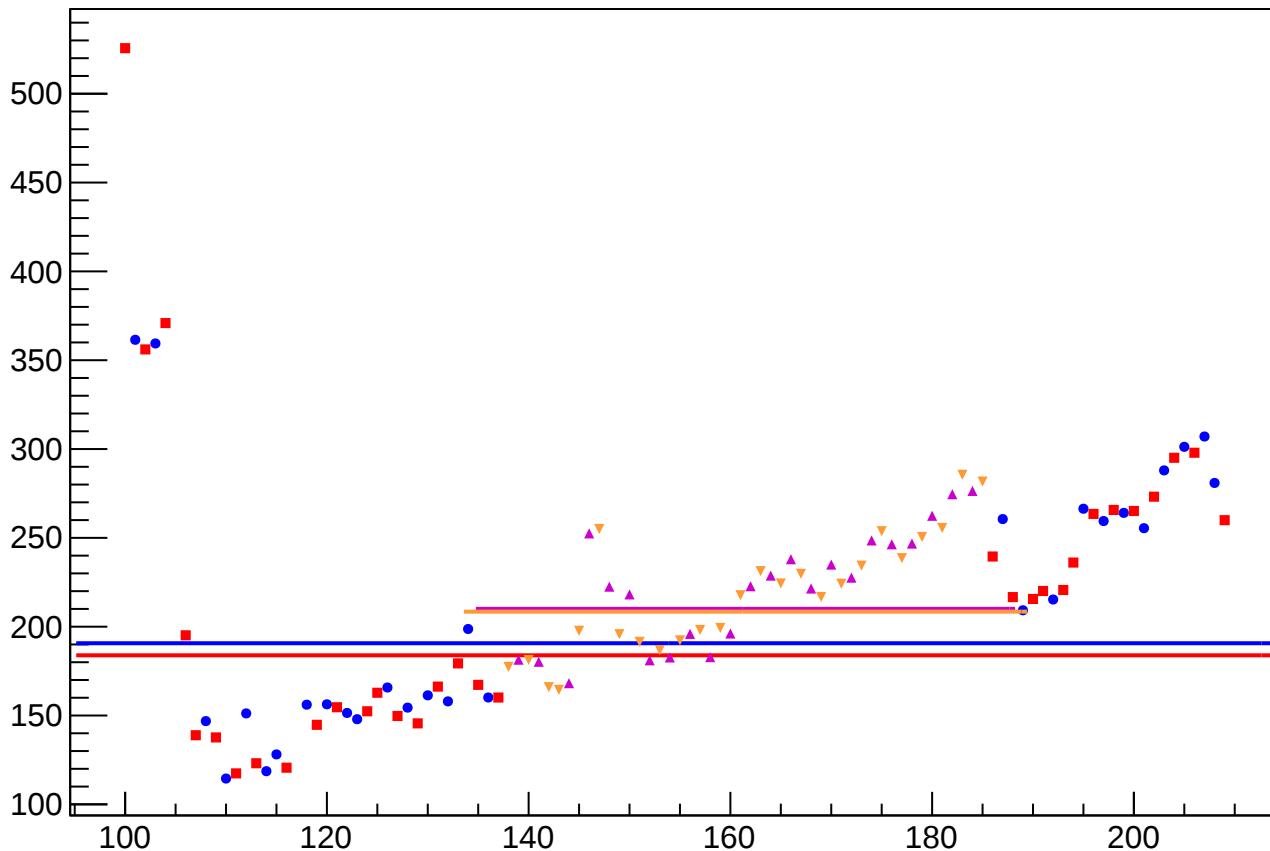
Out: 194.791+/-0.025 χ^2/NDF : 5016341.9/56

All: 195.970+/-0.018 χ^2/NDF : 9491670.4/107

yield_bpm0i05WS_mean vs Slug, Sign Corrected



yield_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 190.690 +/- 0.038 χ^2/NDF : 2663382.2/27

Left Out: 208.466 +/- 0.035 χ^2/NDF : 720894.7/24

Right Out: 183.889 +/- 0.035 χ^2/NDF : 2978736.8/31

Left In: 210.038 +/- 0.036 χ^2/NDF : 702369.5/22

Left: 209.222 +/- 0.025 χ^2/NDF : 1424233.1/47

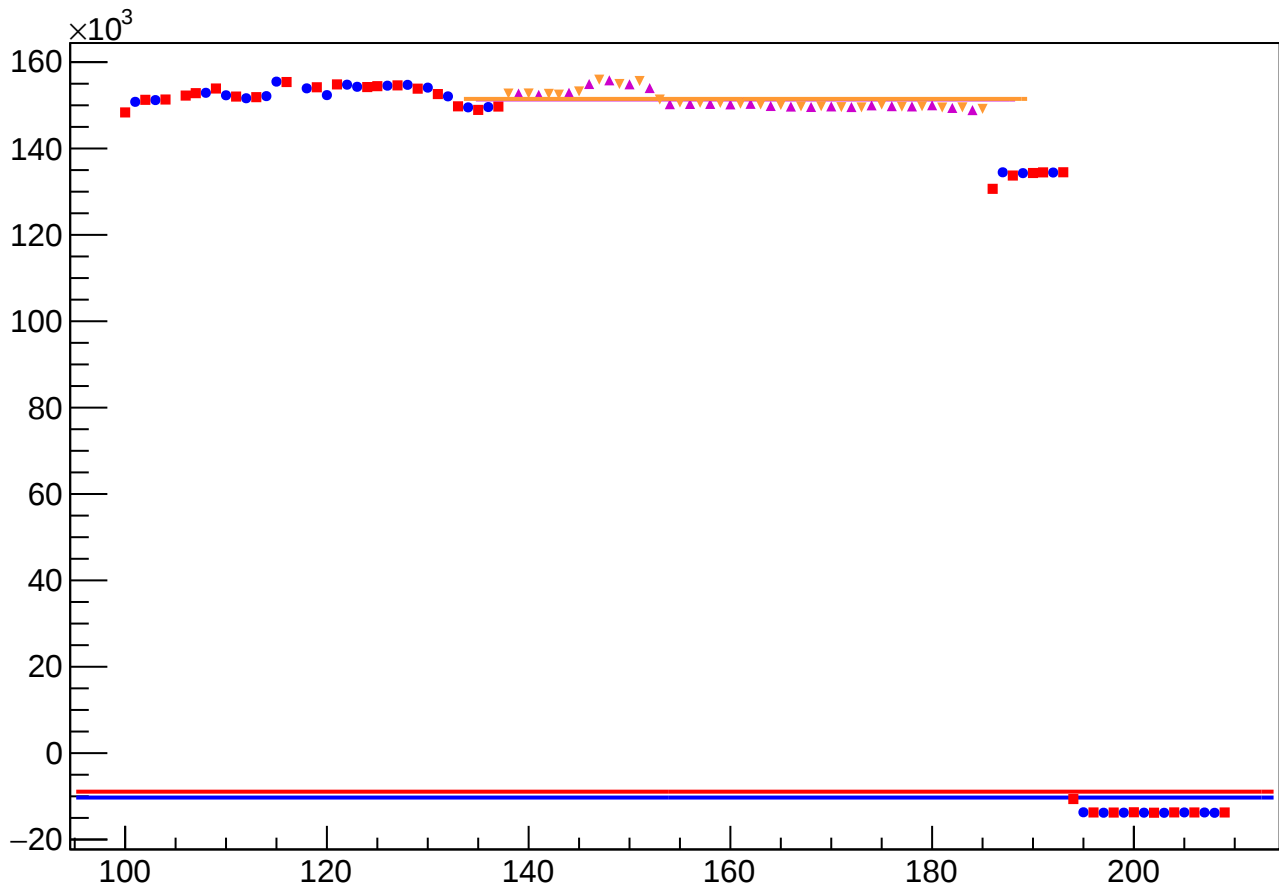
Right: 187.024 +/- 0.026 χ^2/NDF : 5659673.0/59

In: 200.705 +/- 0.026 χ^2/NDF : 3502196.5/50

Out: 196.115 +/- 0.025 χ^2/NDF : 3947032.0/56

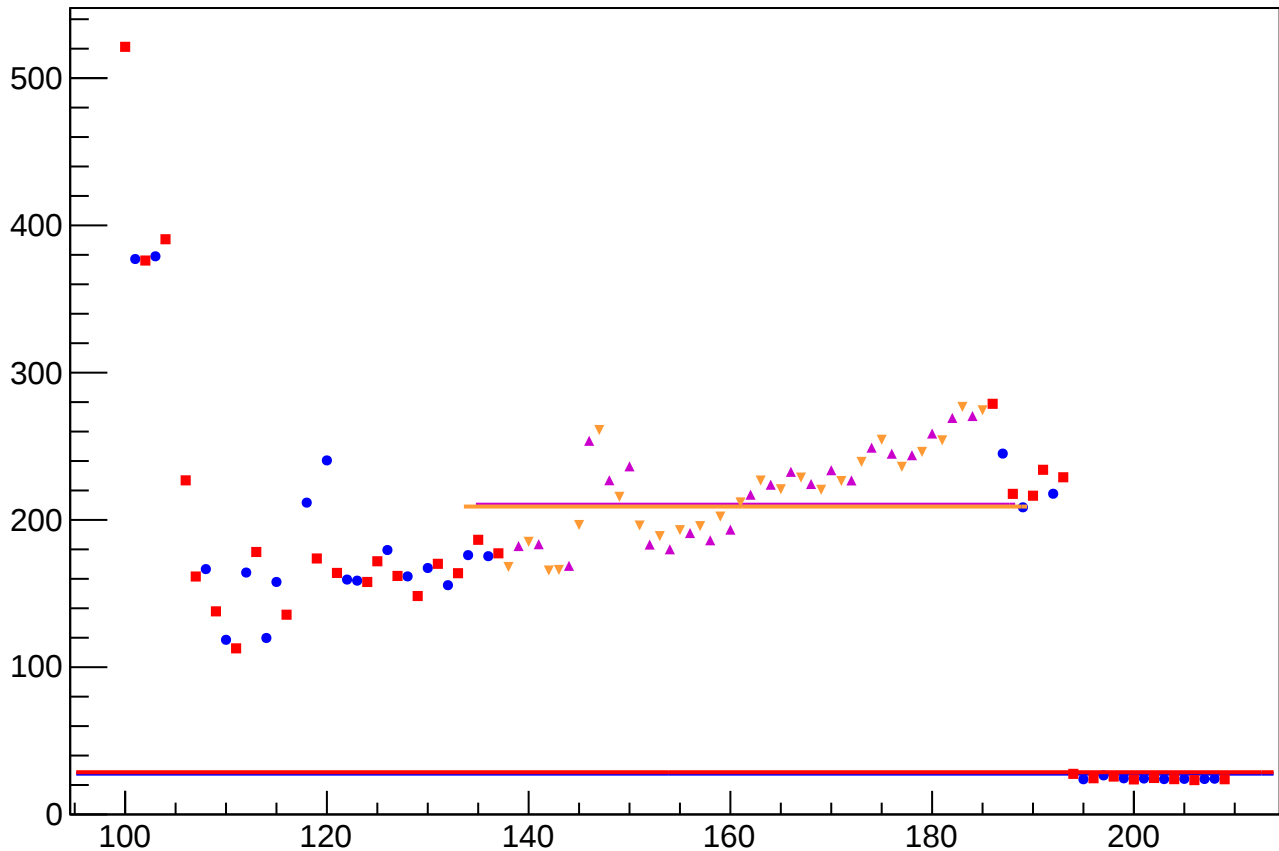
All: 198.278 +/- 0.018 χ^2/NDF : 7465491.0/107

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: -9629.600 $\pm$ 0.007	χ^2 /NDF: 1306153743325.0/24
Right Out: -8920.588 $\pm$ 0.010	χ^2 /NDF: 7165882459009.7/31	In: -4675.995 $\pm$ 0.010	χ^2 /NDF: 15434462386628.3/31
Left In: 151363.165 $\pm$ 0.051	χ^2 /NDF: 1421662089.0/22	Out: -2459.040 $\pm$ 0.010	χ^2 /NDF: 17235973711109.0/22
		All: -3609.068 $\pm$ 0.007	χ^2 /NDF: 3269624322.0/22

yield_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 27.708+/-0.007 χ^2/NDF : 11568555.9/27

Left Out: 209.076+/-0.035 χ^2/NDF : 708260.3/24

Right Out: 28.673+/-0.007 χ^2/NDF : 13528177.6/31

Left In: 210.345+/-0.036 χ^2/NDF : 677747.7/22

Left: 209.687+/-0.025 χ^2/NDF : 1386640.1/47

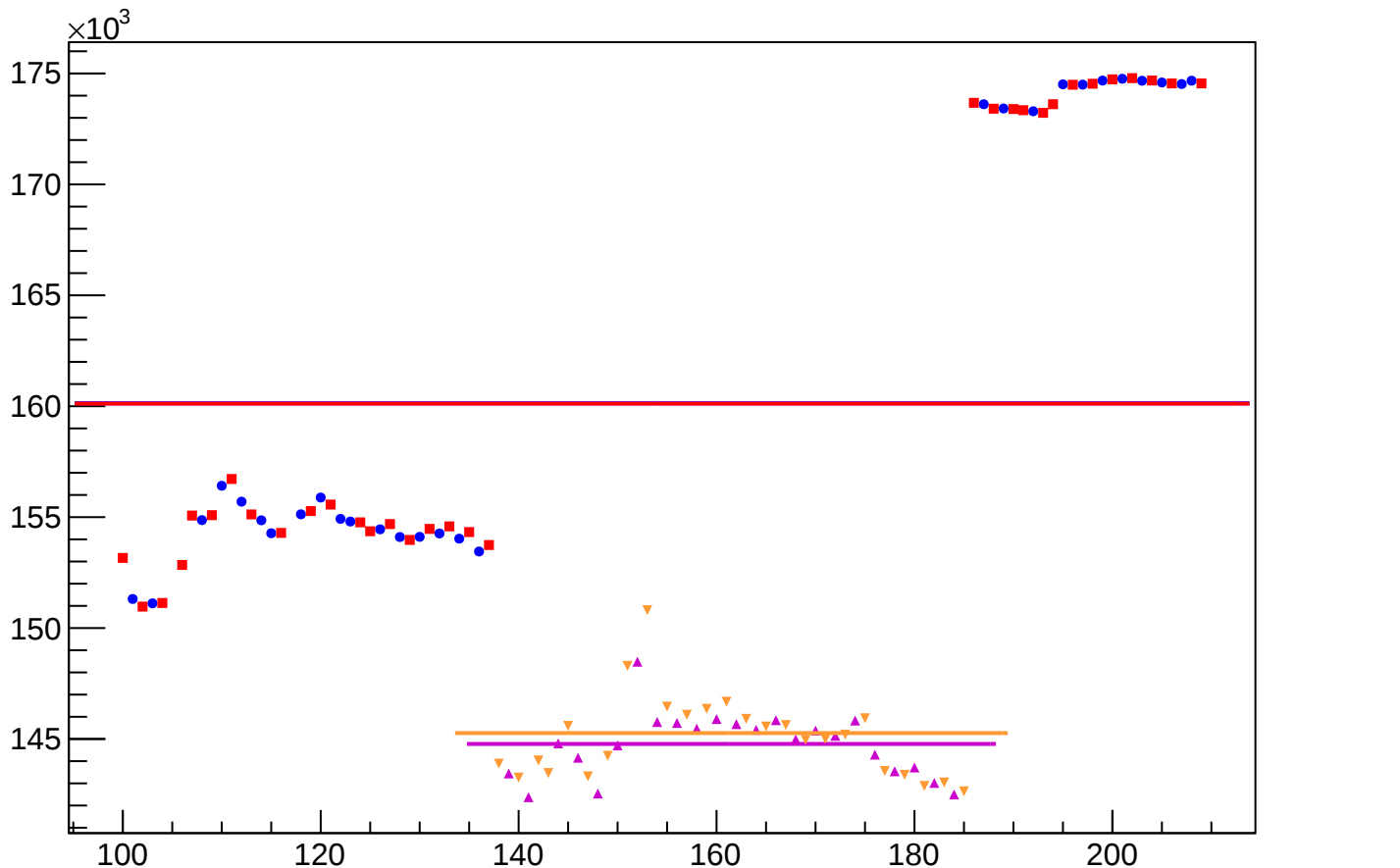
Right: 28.171+/-0.005 χ^2/NDF : 25106157.8/59

In: 34.043+/-0.007 χ^2/NDF : 36620550.5/50

Out: 35.940+/-0.007 χ^2/NDF : 39707975.2/56

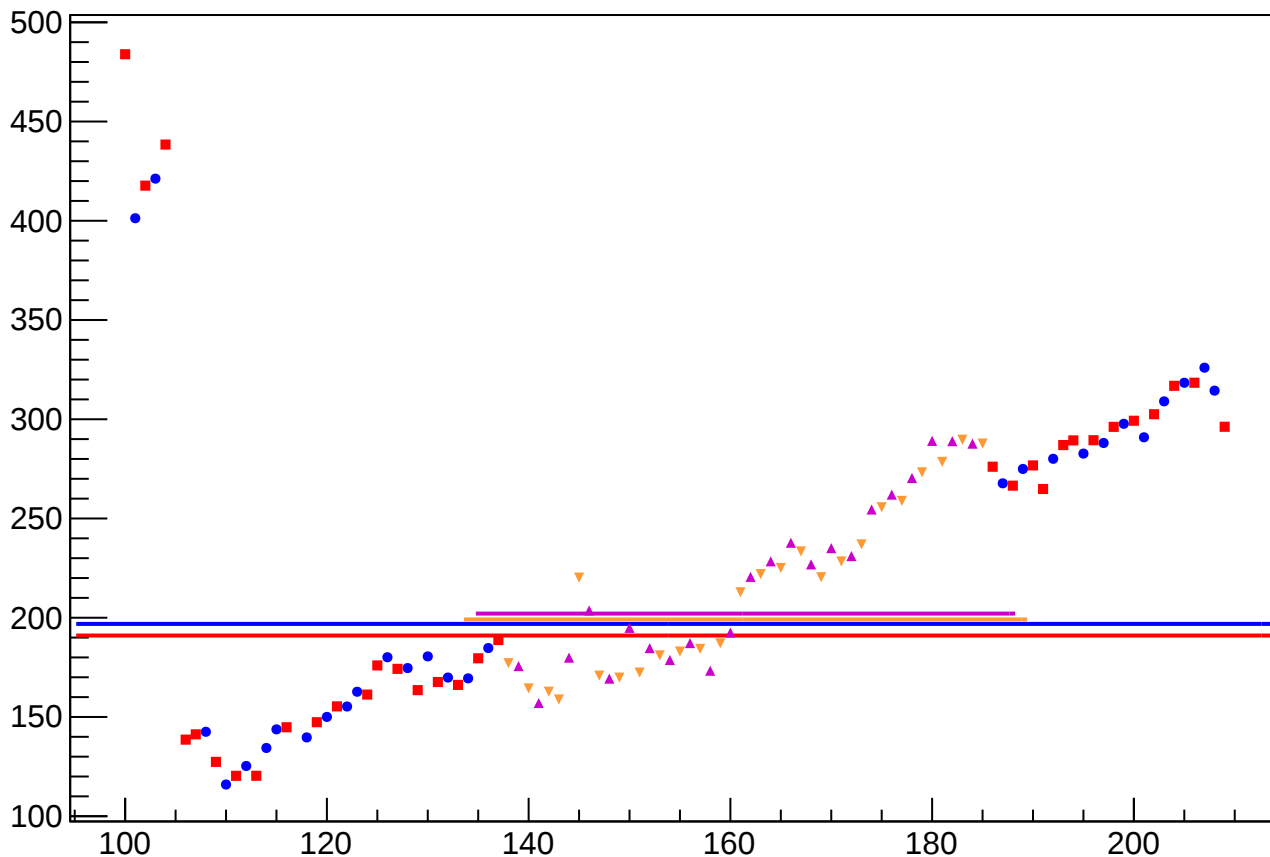
All: 34.956+/-0.005 χ^2/NDF : 76366319.6/107

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: 160124.877 $\pm$ 0.038	χ^2 /NDF: 52532718605.7/24
Right Out: 160117.098 $\pm$ 0.052	χ^2 /NDF: 27854166075.1/31	In: 151548.527 $\pm$ 0.037	χ^2 /NDF: 67943561574.7/31
Left In: 144776.016 $\pm$ 0.050	χ^2 /NDF: 918120275.4/22	Out: 152023.755 $\pm$ 0.035	χ^2 /NDF: 74245666723.6/22
		All: 151799.764 $\pm$ 0.025	χ^2 /NDF: 142276184.7/22

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: 191.039+/-0.037 χ^2/NDF : 4068065.6/31

Left In: 202.090+/-0.035 χ^2/NDF : 1057833.2/22

Left: 200.538+/-0.024 χ^2/NDF : 2213821.5/47

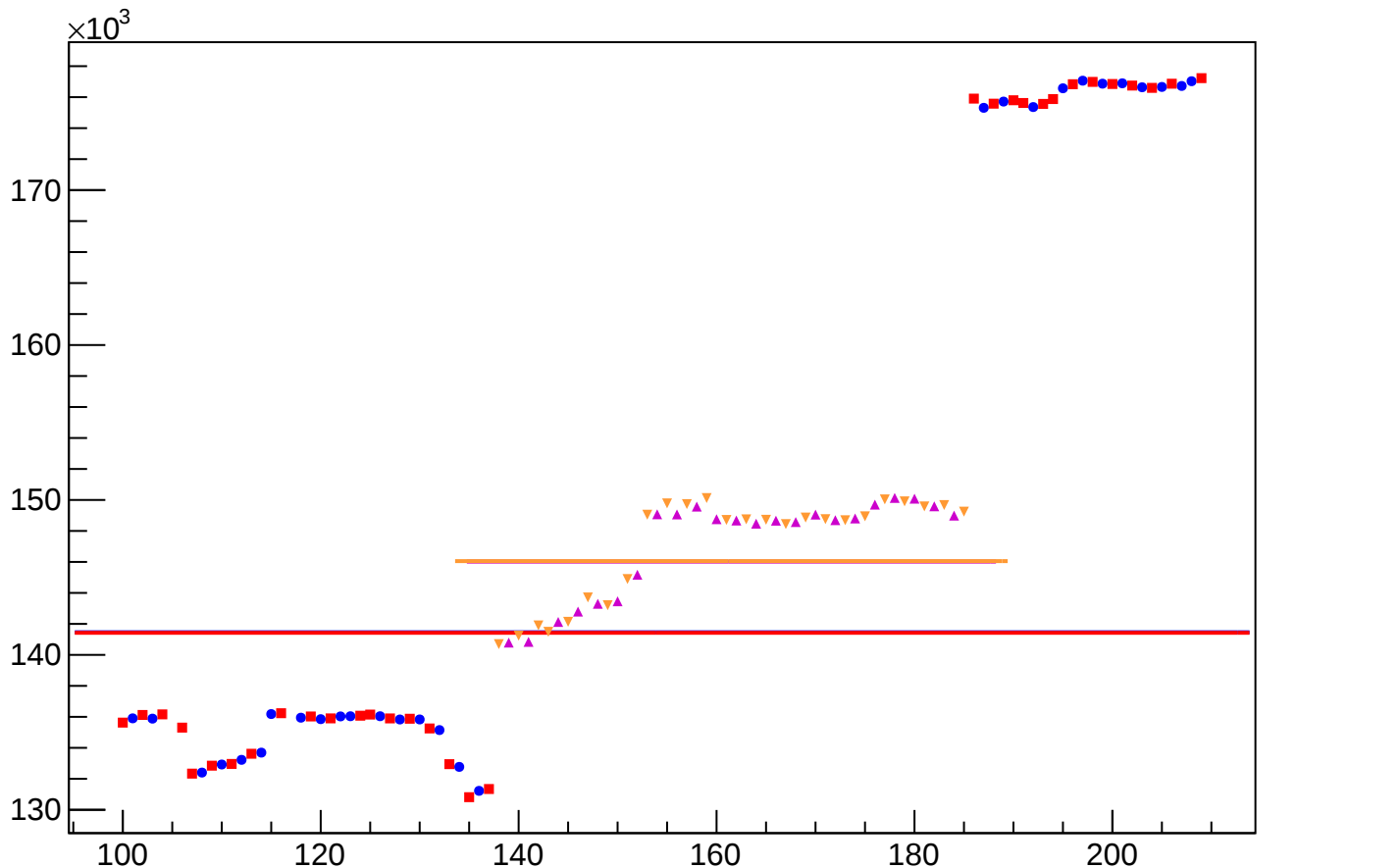
Right: 193.752+/-0.027 χ^2/NDF : 7649284.2/59

In: 199.797+/-0.026 χ^2/NDF : 4636957.5/50

Out: 195.442+/-0.025 χ^2/NDF : 5246740.3/56

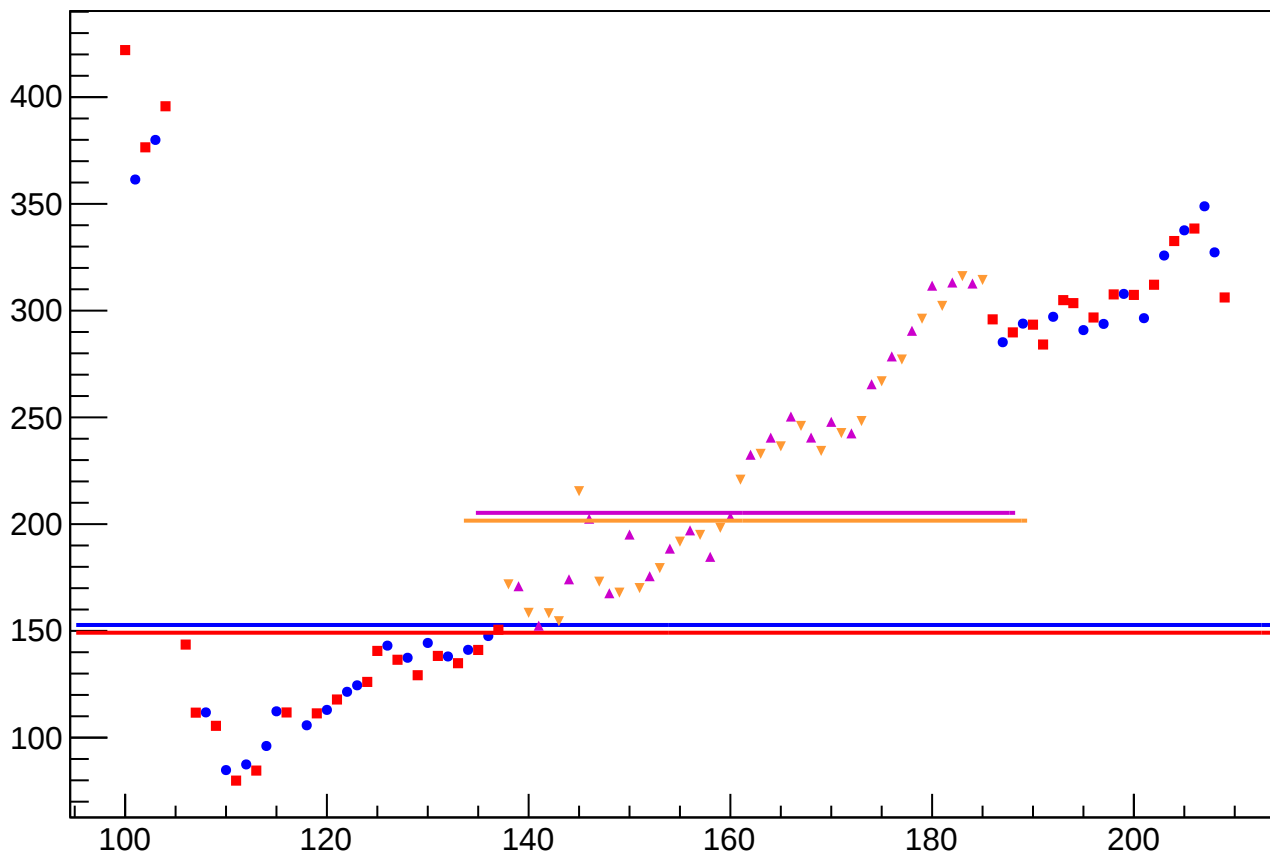
All: 197.495+/-0.018 χ^2/NDF : 9898305.9/107

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: 141442.002 $\pm$ 0.031	χ^2 /NDF: 257914711264
Right Out: 141425.817 $\pm$ 0.043	χ^2 /NDF: 137696086696.9/31	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: 143478.102 $\pm$ 0.032	χ^2 /NDF: 148201781853
		All: 143496.646 $\pm$ 0.023	χ^2 /NDF: 27745983

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: 149.139 $\pm$ 0.031 χ^2 /NDF: 7104509.7/31

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

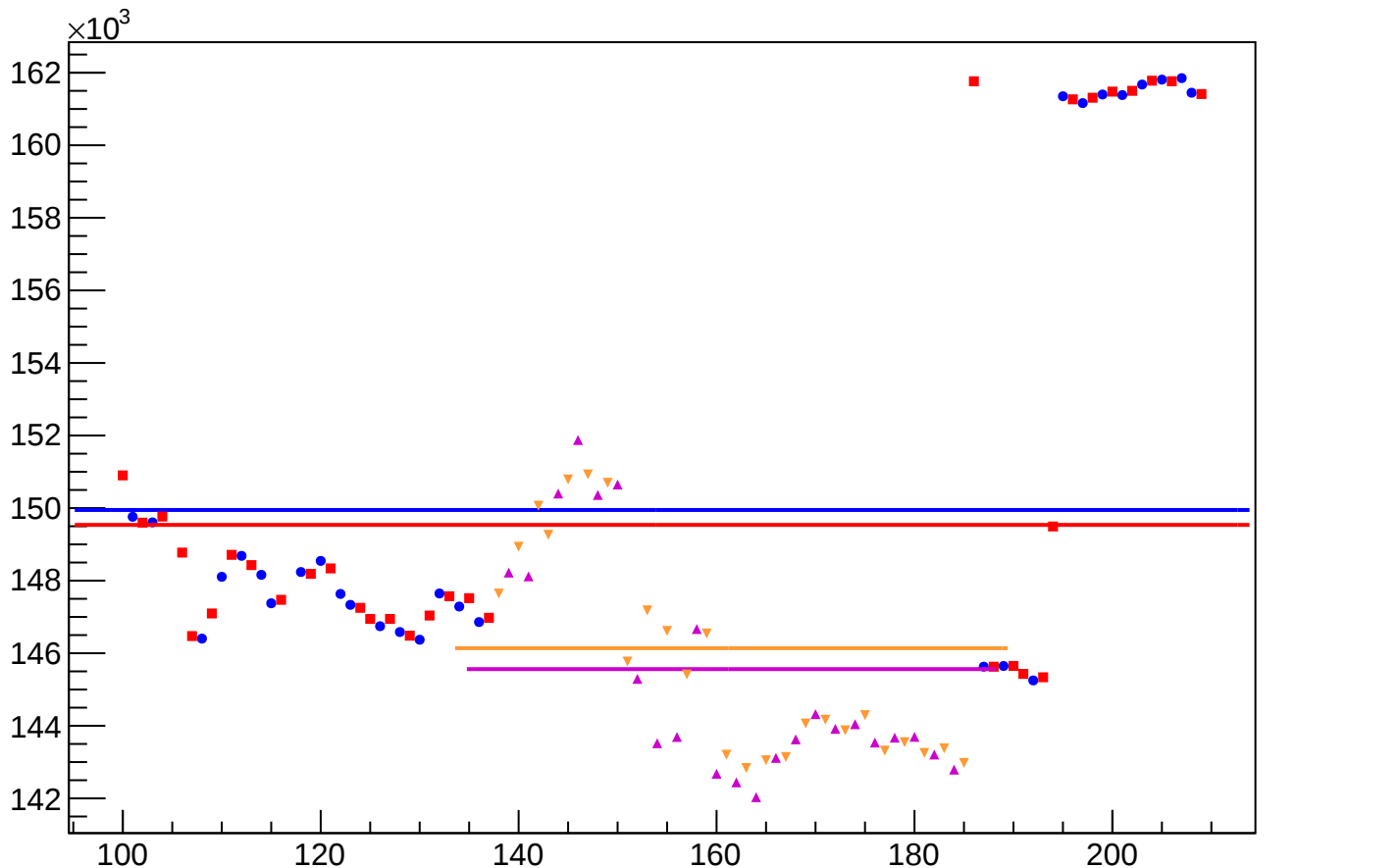
Right: 150.839 $\pm$ 0.022 χ^2 /NDF: 13393490.6/59

In: 176.459 $\pm$ 0.024 χ^2 /NDF: 8887844.3/50

Out: 172.427 $\pm$ 0.023 χ^2 /NDF: 10008090.3/56

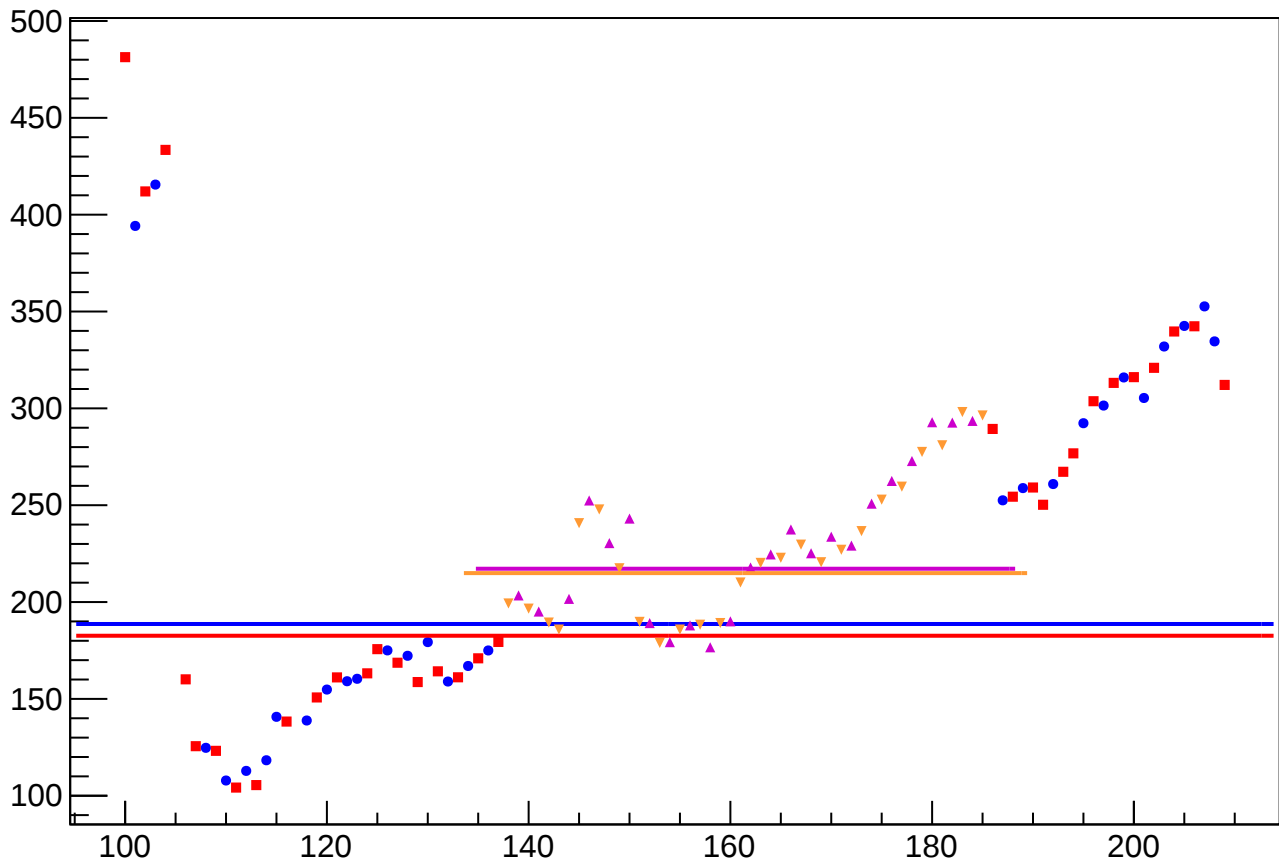
All: 174.331 $\pm$ 0.017 χ^2 /NDF: 18910763.8/10

yield_bpm1i06WS_mean vs Slug, Sign Corrected



Right In: 149948.587 $\pm$ 0.054	χ^2 /NDF: 10118135899.5/27	Left: 145862.850 $\pm$ 0.037	χ^2 /NDF: 5815743509.5/4
Left Out: 146139.326 $\pm$ 0.051	χ^2 /NDF: 2699546907.6/24	Right: 149727.315 $\pm$ 0.037	χ^2 /NDF: 19871589359.7/1
Right Out: 149536.915 $\pm$ 0.050	χ^2 /NDF: 9722611476.1/31	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: 147854.650 $\pm$ 0.036	χ^2 /NDF: 14671149794.7/1
		All: 147783.376 $\pm$ 0.026	χ^2 /NDF: 311867839.7/1

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: 182.607 $\pm$ 0.036 χ^2 /NDF: 4856187.9/31

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

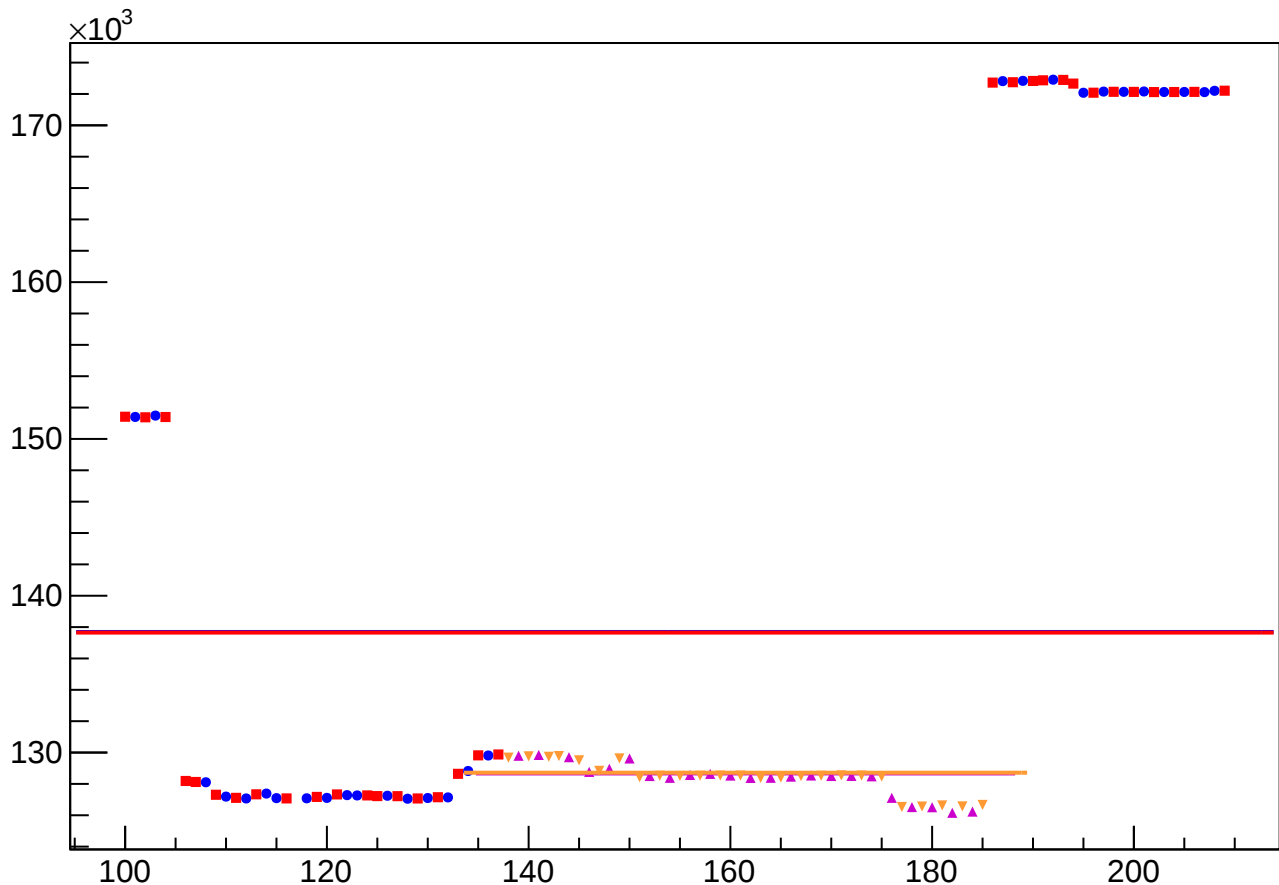
Right: 185.412 $\pm$ 0.026 χ^2 /NDF: 9188775.1/59

In: 203.277 $\pm$ 0.027 χ^2 /NDF:5366156.8/50

Out: 198.618 $\pm$ 0.025 χ^2 /NDF:5992189.5/56

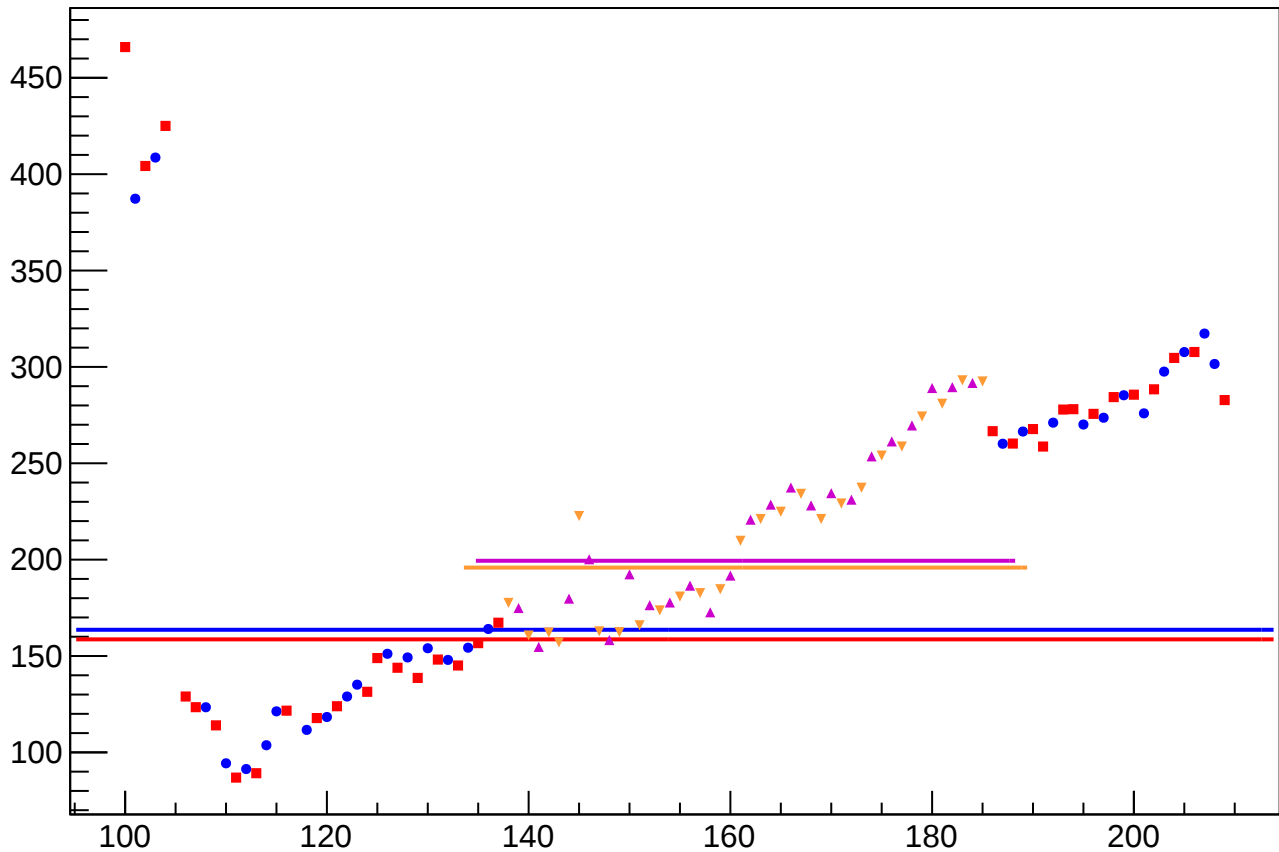
All: 200.812 $\pm$ 0.018 χ^2 /NDF: 11374279.5/10

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: 137650.372 $\pm$ 0.045 χ^2 /NDF: 174027322145.8/31
 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: 137668.625 $\pm$ 0.033 χ^2 /NDF: 324222810292
 In: 133277.740 $\pm$ 0.034 χ^2 /NDF: 167860197360.9
 Out: 133393.013 $\pm$ 0.032 χ^2 /NDF: 193546550809.
 All: 133338.886 $\pm$ 0.023 χ^2 /NDF: 361412753

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: 158.635 $\pm$ 0.031 χ^2/NDF : 5774925.1/31

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

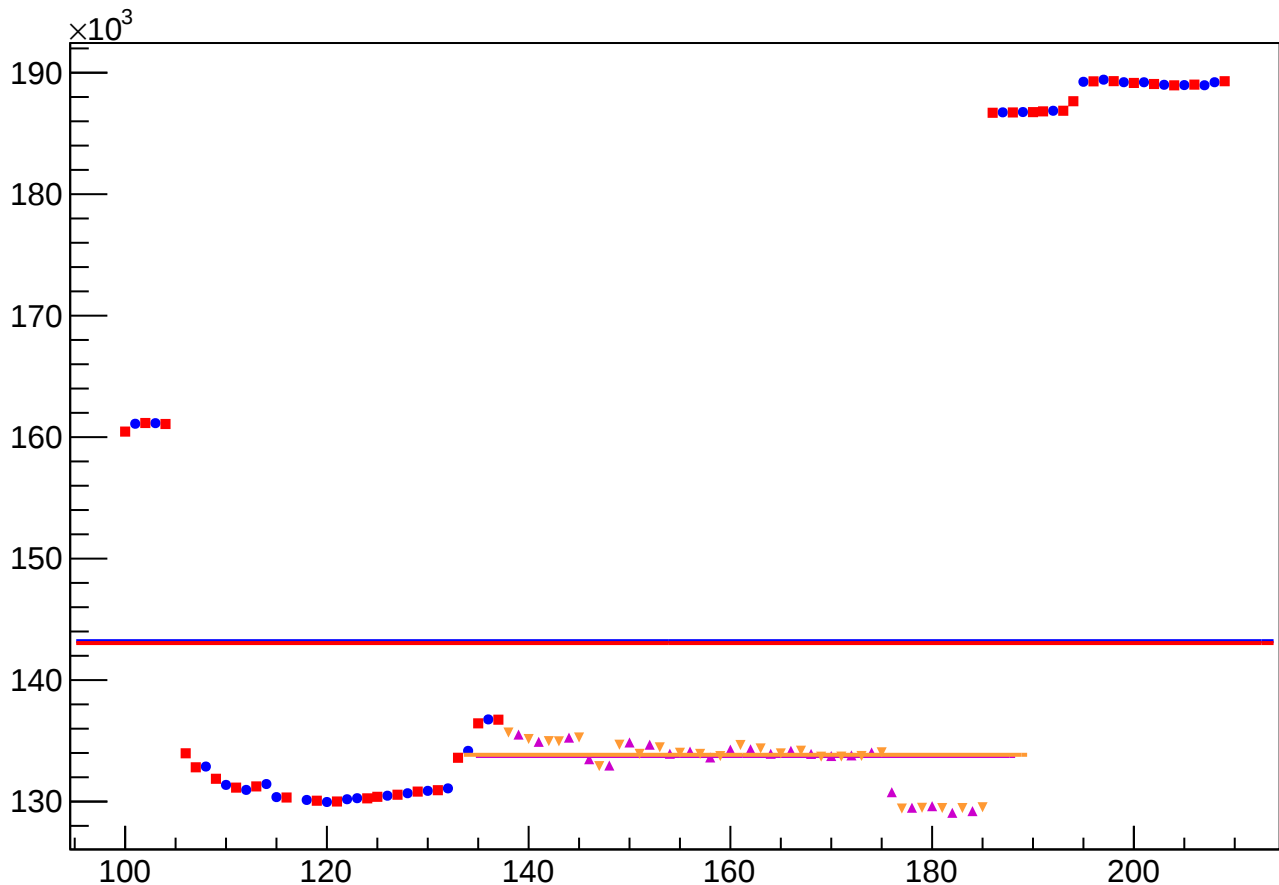
Right: 160.942 $\pm$ 0.023 χ^2/NDF : 10890453.3/59

In: 181.119 $\pm$ 0.024 χ^2/NDF :6815367.9/50

Out: 176.381 $\pm$ 0.023 χ^2/NDF :7754499.7/56

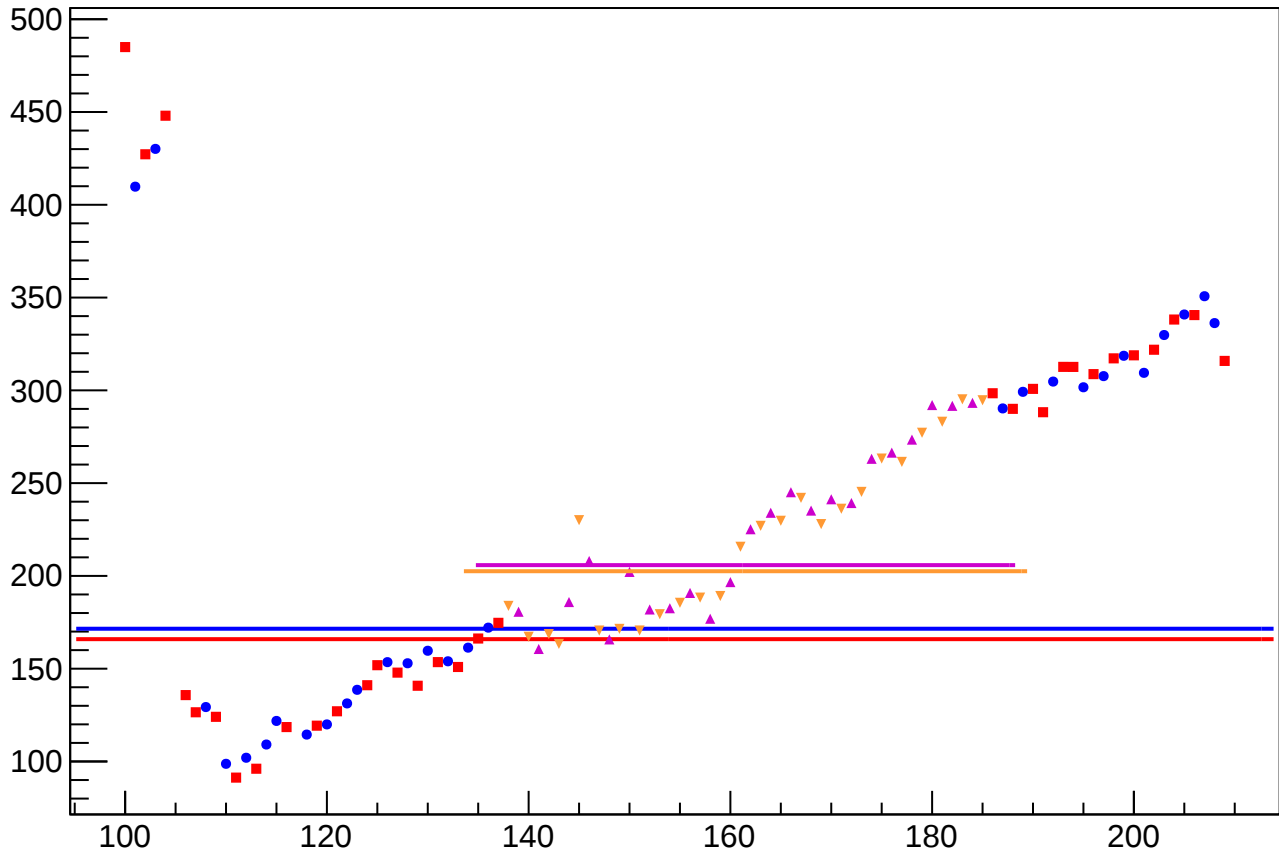
All: 178.606 $\pm$ 0.017 χ^2/NDF : 14590161.5/10

yield_bpm2i02WS_mean vs Slug, Sign Corrected



Right In: 143204.610 $\pm$ 0.051 χ^2 /NDF: 202957112598.9/27
 Left Out: 133850.586 $\pm$ 0.048 χ^2 /NDF: 1080107831.1/24
 Right Out: 143047.374 $\pm$ 0.047 χ^2 /NDF: 230129654815.0/31
 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: 143120.163 $\pm$ 0.035 χ^2 /NDF: 433091924066
 In: 138455.675 $\pm$ 0.036 χ^2 /NDF: 221348846400.3
 Out: 138555.990 $\pm$ 0.034 χ^2 /NDF: 249820482993.
 All: 138508.863 $\pm$ 0.025 χ^2 /NDF: 471173492

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: 165.913+/-0.033 χ^2/NDF : 6331906.9/31

Left In: 205.808+/-0.036 χ^2/NDF : 1094330.7/22

Left: 204.091+/-0.025 χ^2/NDF : 2310735.8/47

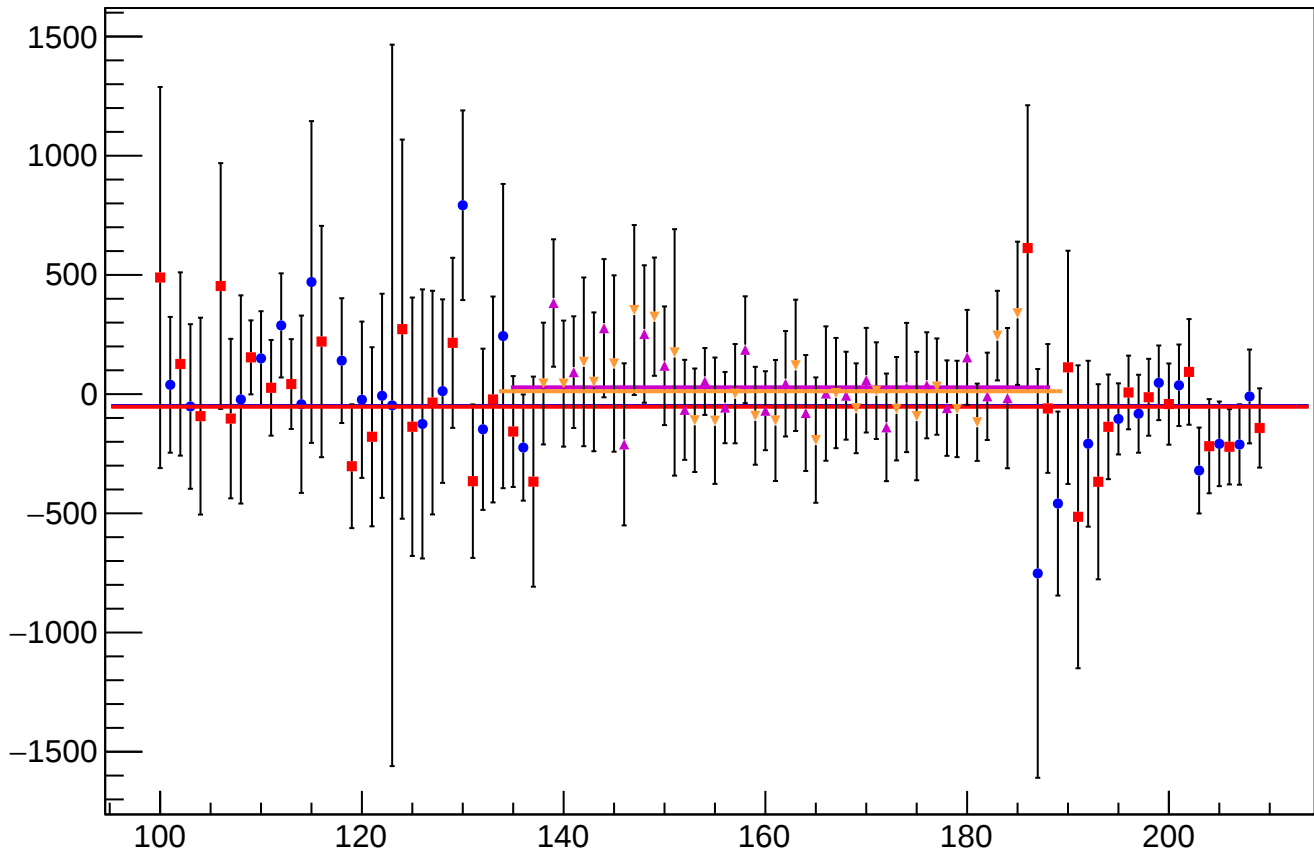
Right: 168.515+/-0.024 χ^2/NDF : 11903473.5/59

In: 188.748+/-0.025 χ^2/NDF : 7111011.3/50

Out: 183.794+/-0.024 χ^2/NDF : 8133872.1/56

All: 186.121+/-0.017 χ^2/NDF : 15265193.1/10

asym_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: -49.844 ± 46.802 $\chi^2/\text{NDF}: 16.9/27$

Left Out: 12.180 ± 47.531 $\chi^2/\text{NDF}: 8.6/24$

Right Out: -52.897 ± 45.148 $\chi^2/\text{NDF}: 13.0/31$

Left In: 28.452 ± 44.688 $\chi^2/\text{NDF}: 6.7/22$

Left: 20.817 ± 32.558 $\chi^2/\text{NDF}: 15.3/47$

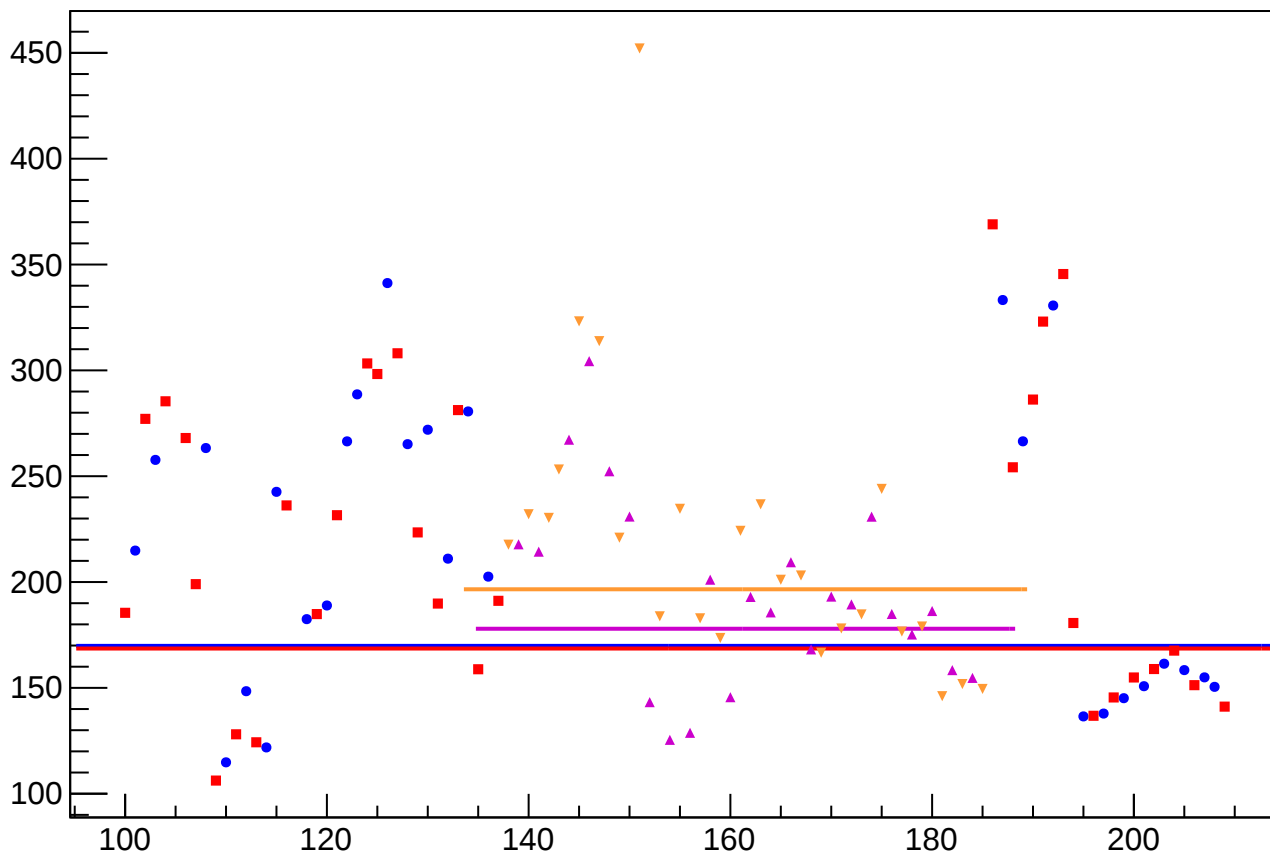
Right: -51.426 ± 32.493 $\chi^2/\text{NDF}: 29.9/59$

In: -8.888 ± 32.321 $\chi^2/\text{NDF}: 25.0/50$

Out: -22.031 ± 32.734 $\chi^2/\text{NDF}: 22.6/56$

All: -15.376 ± 22.999 $\chi^2/\text{NDF}: 47.7/107$

asym_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 169.841 $\pm$ 0.033 χ^2 /NDF: 2123141.4/27

Left Out: 196.576 $\pm$ 0.034 χ^2 /NDF:1778719.0/24

Right Out: 168.585 $\pm$ 0.032 χ^2 /NDF: 2838580.2/31

Left In: 177.933 $\pm$ 0.032 χ^2 /NDF:1605780.8/22

Left: 186.680 $\pm$ 0.023 χ^2 /NDF: 3547823.4/47

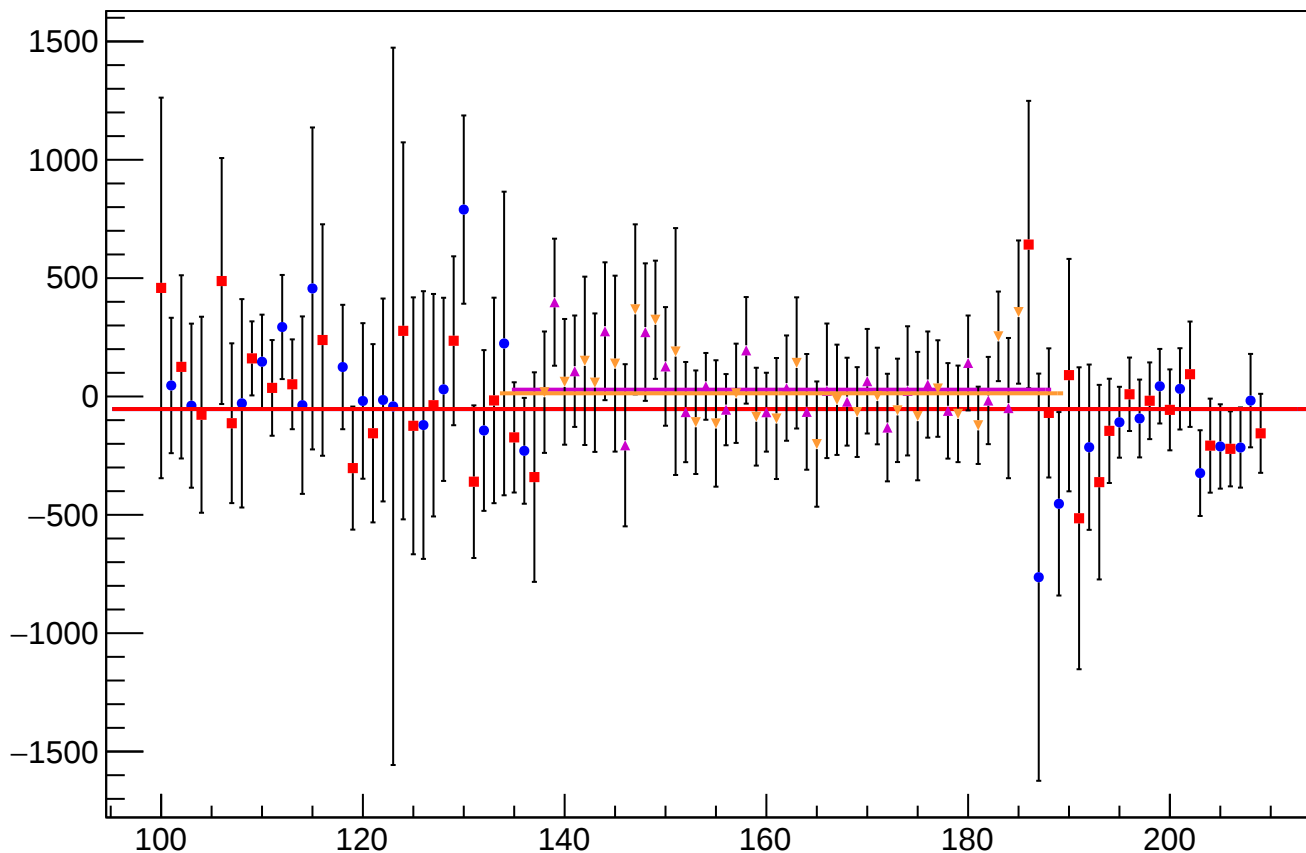
Right: 169.190 $\pm$ 0.023 χ^2 /NDF: 4962466.9/59

In: 174.074 $\pm$ 0.023 χ^2 /NDF:3760199.3/50

Out: 181.861 $\pm$ 0.023 χ^2 /NDF:4981924.8/56

All: 177.918 $\pm$ 0.016 χ^2 /NDF: 8799445.7/107

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: -53.020 ± 45.372 χ^2/NDF : 13.3/31

Left In: 28.806 ± 44.980 χ^2/NDF : 6.8/22

Left: 21.578 ± 32.777 χ^2/NDF : 15.9/47

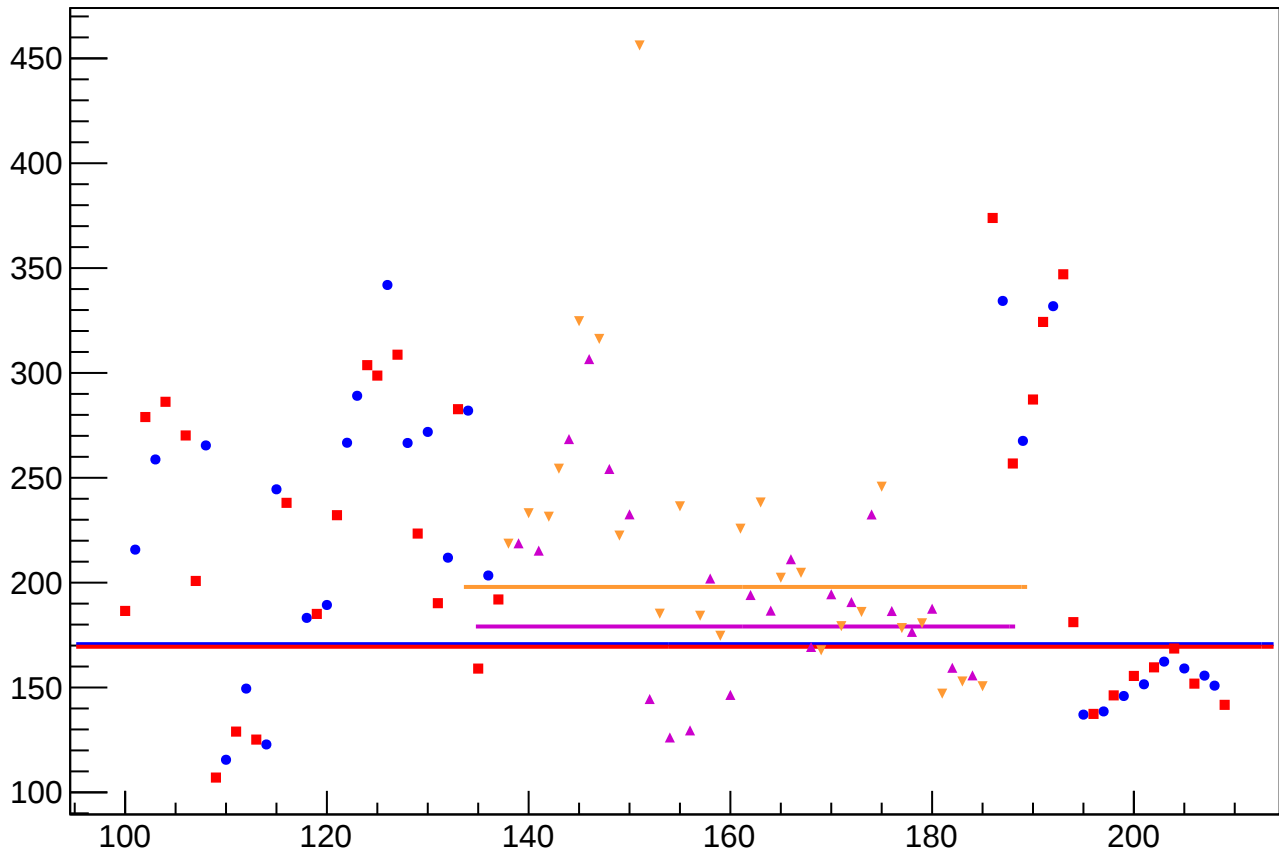
Right: -53.135 ± 32.651 χ^2/NDF : 30.2/59

In: -10.405 ± 32.504 χ^2/NDF : 25.3/50

Out: -21.586 ± 32.928 χ^2/NDF : 23.3/56

All: -15.923 ± 23.132 χ^2/NDF : 48.6/107

asym_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 170.669 ± 0.033 χ^2/NDF : 2114873.0/27

Left Out: 197.953 ± 0.034 χ^2/NDF : 1774524.3/24

Right Out: 169.432 ± 0.032 χ^2/NDF : 2834608.1/31

Left In: 179.090 ± 0.032 χ^2/NDF : 1605113.3/22

Left: 187.936 ± 0.023 χ^2/NDF : 3544595.8/47

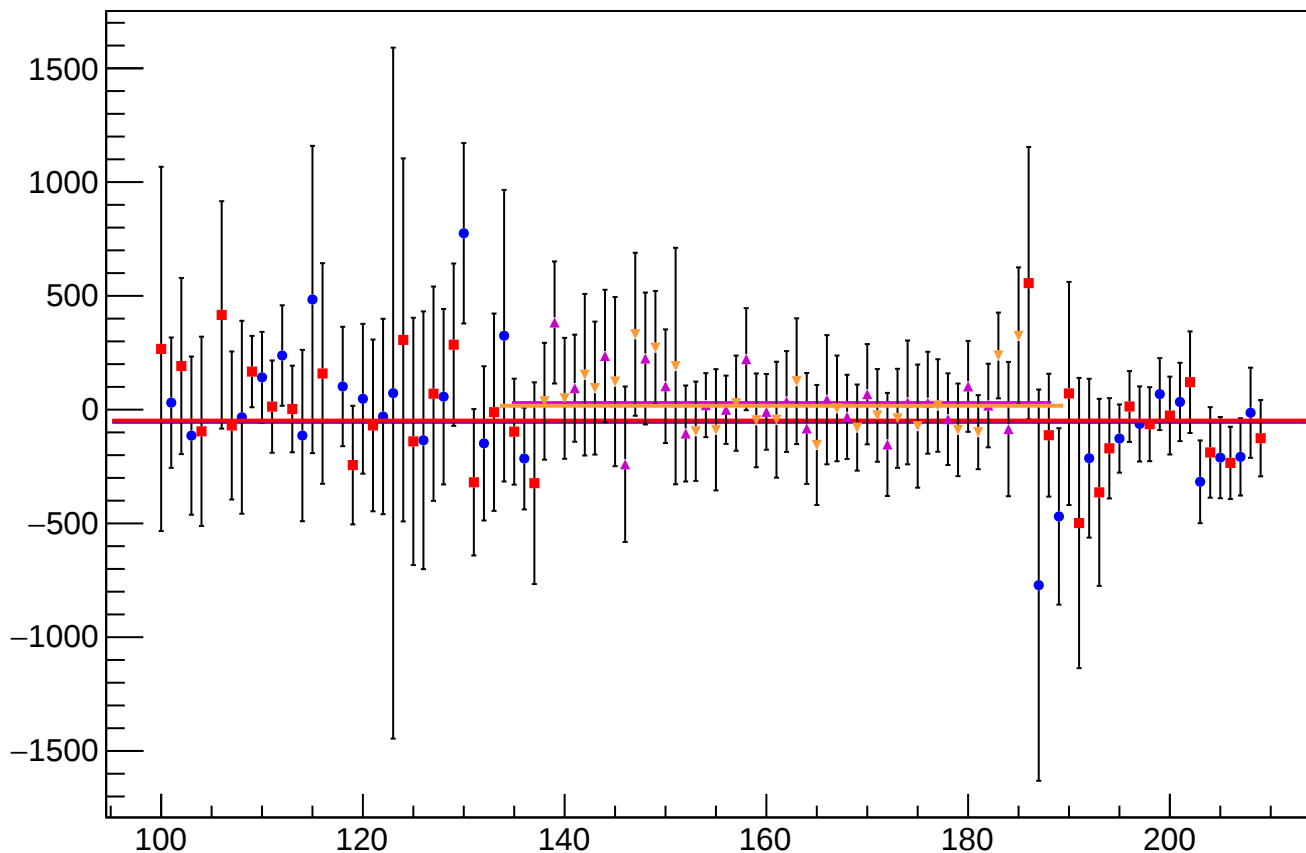
Right: 170.028 ± 0.023 χ^2/NDF : 4950198.1/59

In: 175.066 ± 0.023 χ^2/NDF : 3753480.5/50

Out: 182.931 ± 0.023 χ^2/NDF : 4983188.4/56

All: 178.948 ± 0.016 χ^2/NDF : 8794454.8/107

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: -48.249 ± 45.395 $\chi^2/\text{NDF}: 11.9/31$

Left In: 28.655 ± 44.859 $\chi^2/\text{NDF}: 6.1/22$

Left: 23.256 ± 32.690 $\chi^2/\text{NDF}: 13.2/47$

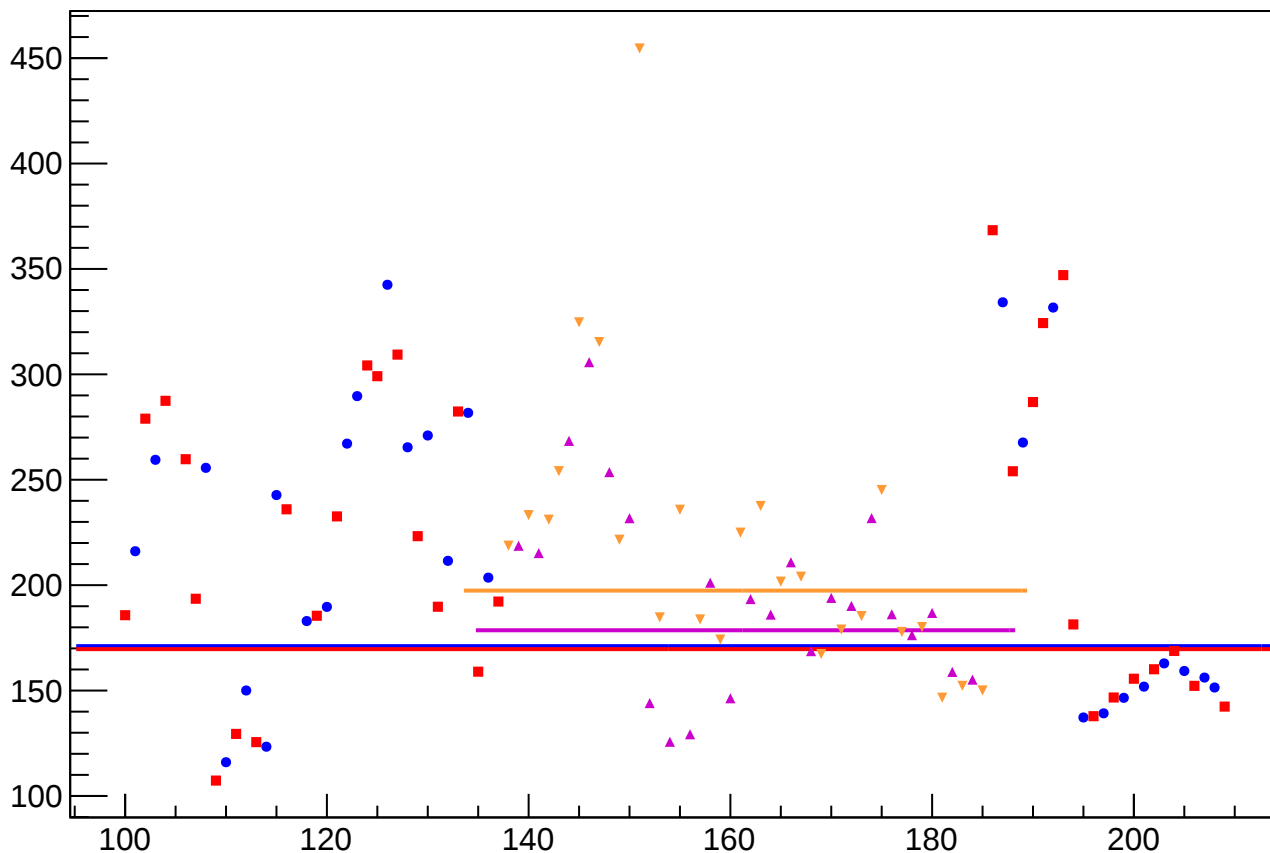
Right: -50.590 ± 32.687 $\chi^2/\text{NDF}: 28.1/59$

In: -10.232 ± 32.485 $\chi^2/\text{NDF}: 24.0/50$

Out: -17.198 ± 32.896 $\chi^2/\text{NDF}: 20.0/56$

All: -13.671 ± 23.114 $\chi^2/\text{NDF}: 43.9/107$

asym_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 171.069+/-0.033 χ^2/NDF : 2083120.3/27

Left Out: 197.422+/-0.034 χ^2/NDF : 1780261.9/24

Right Out: 169.656+/-0.032 χ^2/NDF : 2786999.2/31

Left In: 178.601+/-0.032 χ^2/NDF : 1608998.1/22

Left: 187.427+/-0.023 χ^2/NDF : 3554344.1/47

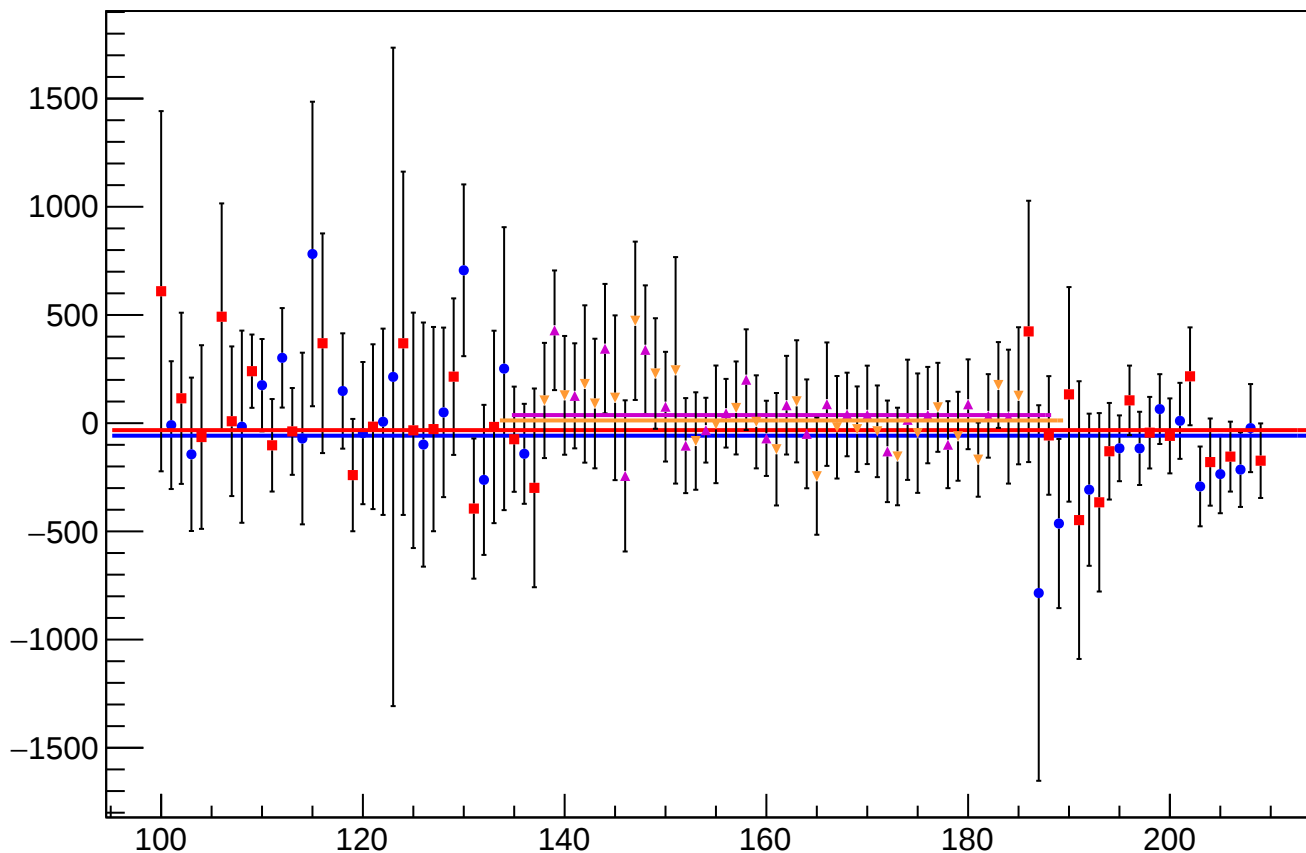
Right: 170.336+/-0.023 χ^2/NDF : 4871052.1/59

In: 175.019+/-0.023 χ^2/NDF : 3718938.0/50

Out: 182.841+/-0.023 χ^2/NDF : 4922566.5/56

All: 178.881+/-0.016 χ^2/NDF : 8698752.5/107

asym_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: -57.816 ± 48.162 χ^2/NDF : 17.0/27

Left Out: 12.632 ± 49.242 χ^2/NDF : 7.5/24

Right Out: -32.158 ± 46.661 χ^2/NDF : 13.8/31

Left In: 37.460 ± 46.479 χ^2/NDF : 7.6/22

Left: 25.762 ± 33.800 χ^2/NDF : 15.3/47

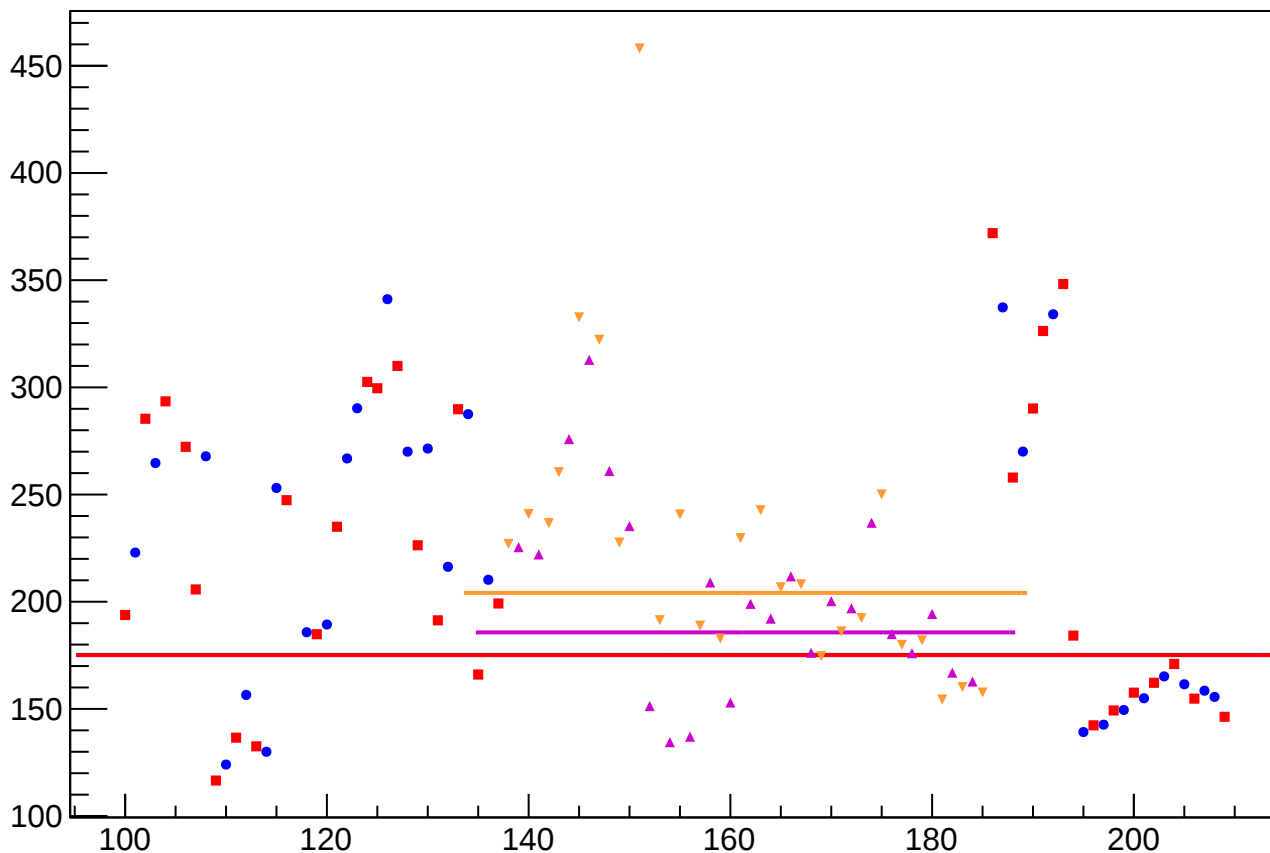
Right: -44.581 ± 33.512 χ^2/NDF : 31.0/59

In: -8.484 ± 33.445 χ^2/NDF : 26.7/50

Out: -10.968 ± 33.870 χ^2/NDF : 21.7/56

All: -9.710 ± 23.798 χ^2/NDF : 48.4/107

asym_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 175.186 $\pm$ 0.034 χ^2 /NDF: 2009647.6/27

Left Out: 204.132 $\pm$ 0.035 χ^2 /NDF:1672287.6/24

Right Out: 175.089 $\pm$ 0.033 χ^2 /NDF: 2605961.4/31

Left In: 185.694 $\pm$ 0.033 χ^2 /NDF:1447767.0/22

Left: 194.381 $\pm$ 0.024 χ^2 /NDF: 3268347.9/47

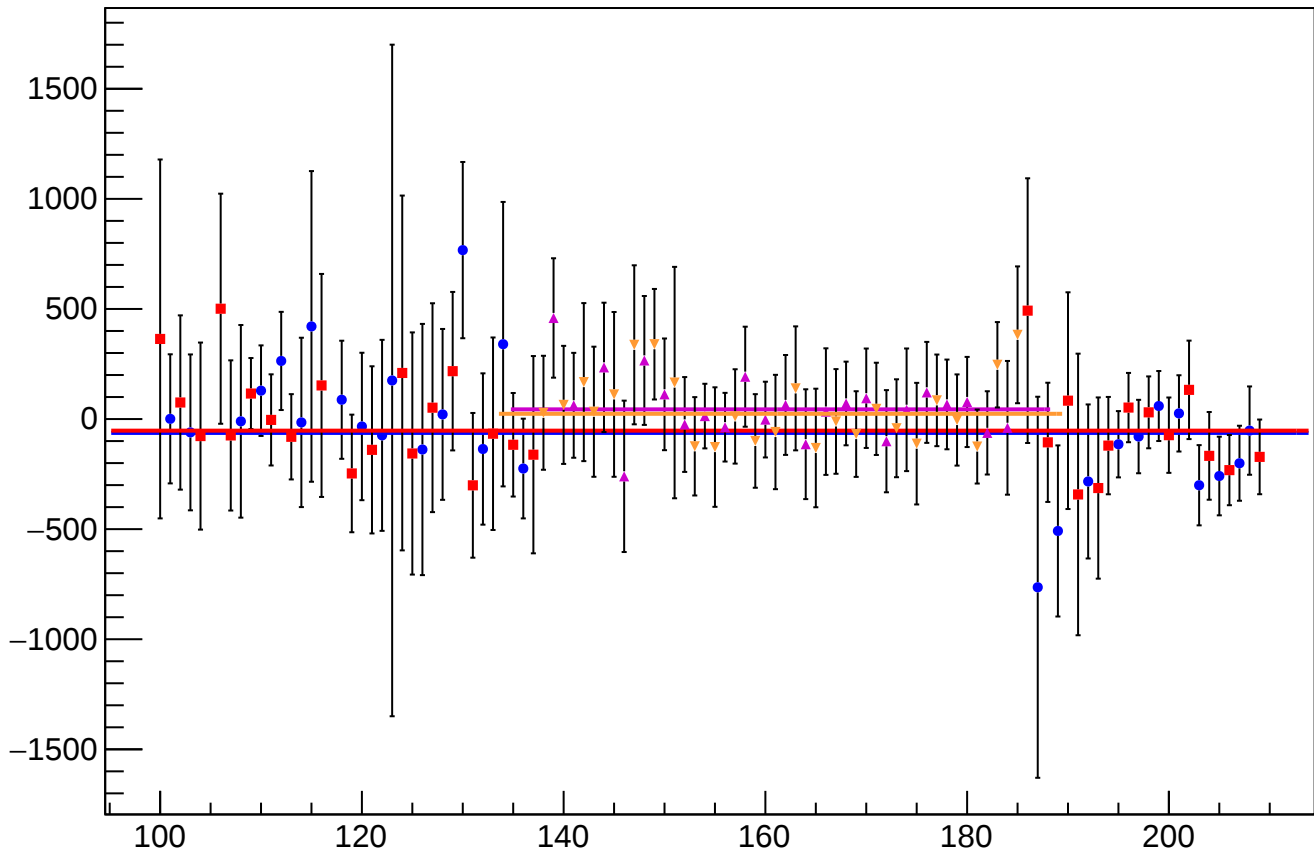
Right: 175.136 $\pm$ 0.024 χ^2 /NDF: 4615613.2/59

In: 180.627 $\pm$ 0.024 χ^2 /NDF:3506703.3/50

Out: 188.829 $\pm$ 0.024 χ^2 /NDF:4644828.1/56

All: 184.676 $\pm$ 0.017 χ^2 /NDF: 8210918.4/107

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: -52.667 ± 45.917 χ^2/NDF : 10.0/31

Left In: 43.978 ± 45.981 χ^2/NDF : 6.5/22

Left: 34.506 ± 33.460 χ^2/NDF : 15.1/47

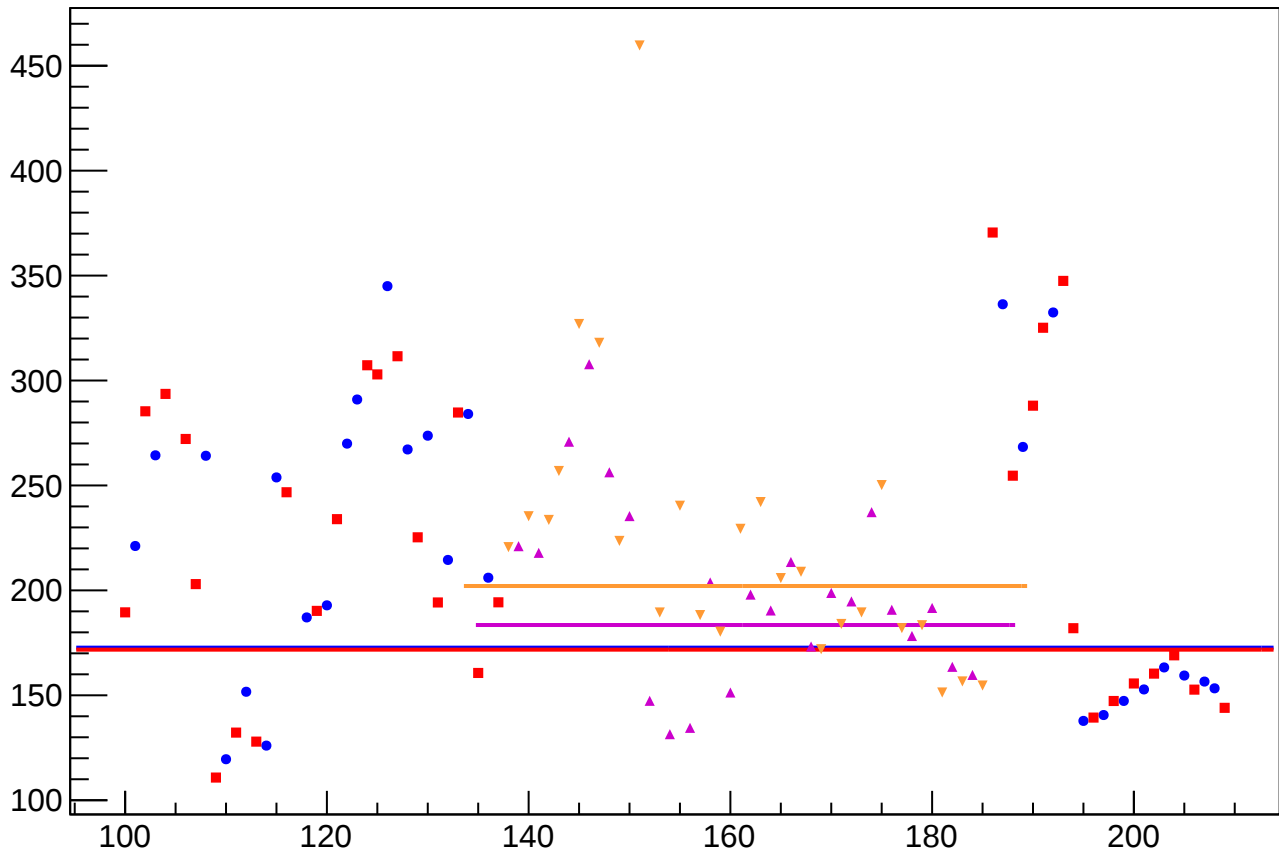
Right: -57.625 ± 33.032 χ^2/NDF : 26.2/59

In: -7.684 ± 33.056 χ^2/NDF : 25.3/50

Out: -16.725 ± 33.435 χ^2/NDF : 19.8/56

All: -12.153 ± 23.507 χ^2/NDF : 45.1/107

asym_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 172.707 $\pm$ 0.034 χ^2 /NDF: 2091388.2/27

Left Out: 202.081 $\pm$ 0.034 χ^2 /NDF:1692787.9/24

Right Out: 171.753 $\pm$ 0.032 χ^2 /NDF: 2766509.9/31

Left In: 183.498 $\pm$ 0.033 χ^2 /NDF:1483383.4/22

Left: 192.240 $\pm$ 0.024 χ^2 /NDF: 3329846.6/47

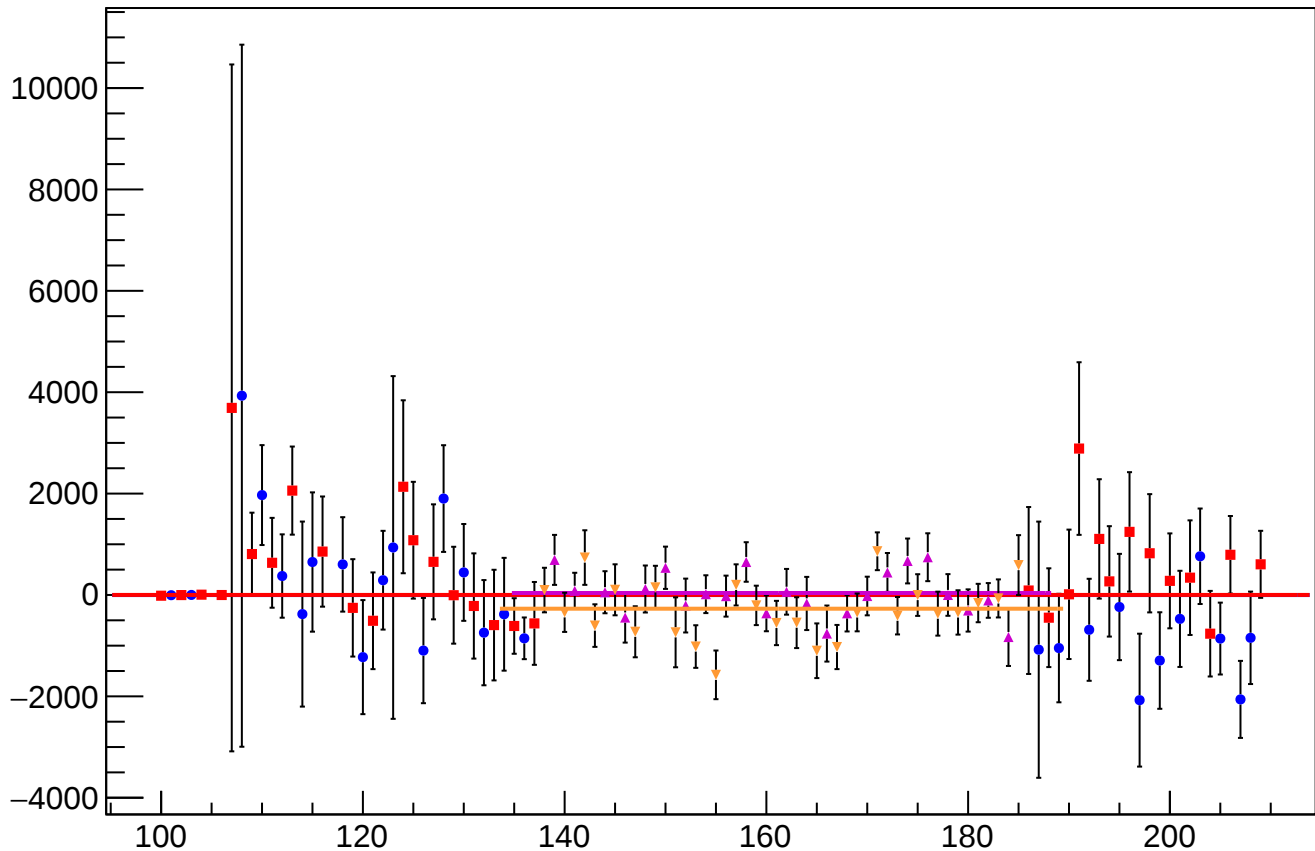
Right: 172.213 $\pm$ 0.023 χ^2 /NDF: 4858314.6/59

In: 178.284 $\pm$ 0.023 χ^2 /NDF:3628000.0/50

Out: 186.000 $\pm$ 0.024 χ^2 /NDF:4869167.1/56

All: 182.098 $\pm$ 0.017 χ^2 /NDF: 8551029.9/107

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: 0.750 ± 2.111 χ^2/NDF : 27.7/31

Left In: 39.078 ± 87.769 χ^2/NDF : 20.3/22

Left: -117.369 ± 61.777 χ^2/NDF : 64.7/47

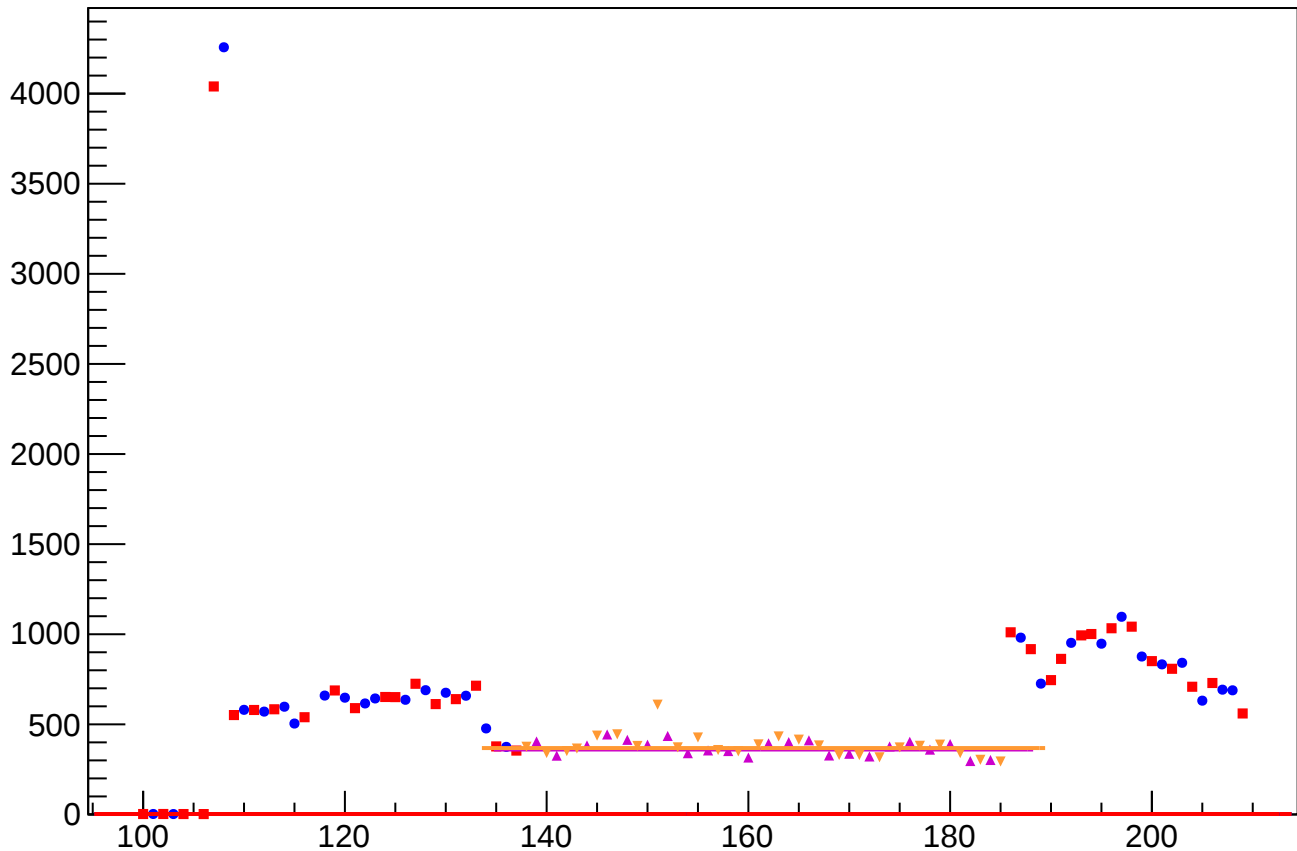
Right: -0.342 ± 1.540 χ^2/NDF : 62.2/59

In: -1.556 ± 2.251 χ^2/NDF : 54.5/50

Out: 0.590 ± 2.110 χ^2/NDF : 75.5/56

All: -0.414 ± 1.539 χ^2/NDF : 130.5/107

asym_cav4bQ_rms vs Slug, Sign Corrected



Right In: 2.504 $\pm$ 0.002 χ^2 /NDF: 25985483.0/27

Left Out: 368.397 $\pm$ 0.061 χ^2 /NDF: 622466.1/24

Right Out: 2.482 $\pm$ 0.001 χ^2 /NDF: 28311537.7/31

Left In: 360.408 $\pm$ 0.062 χ^2 /NDF: 417739.4/22

Left: 364.439 $\pm$ 0.044 χ^2 /NDF: 1048566.0/47

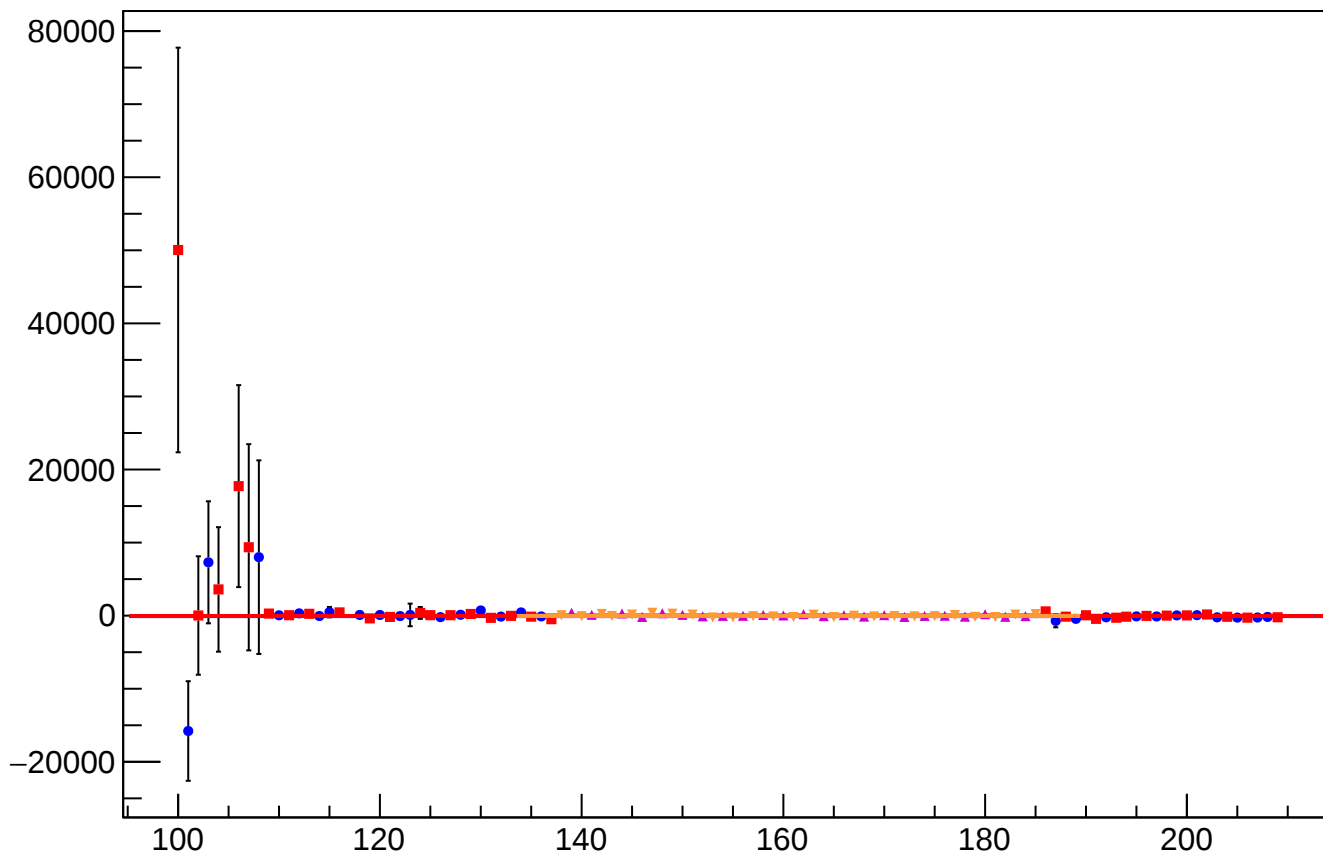
Right: 2.492 $\pm$ 0.001 χ^2 /NDF: 54297116.8/59

In: 2.739 $\pm$ 0.002 χ^2 /NDF: 59637930.3/50

Out: 2.698 $\pm$ 0.001 χ^2 /NDF: 64319219.1/56

All: 2.717 $\pm$ 0.001 χ^2 /NDF: 123957506.7/107

asym_cav4cQ_mean vs Slug, Sign Corrected



Right In: -57.197 $\pm$ 52.064 χ^2 /NDF: 20.9/27

Left Out: -38.013 $\pm$ 49.628 χ^2 /NDF: 9.3/24

Right Out: -40.759 $\pm$ 51.039 χ^2 /NDF: 21.0/31

Left In: 28.205 $\pm$ 48.167 χ^2 /NDF: 9.2/22

Left: -3.915 $\pm$ 34.564 χ^2 /NDF: 19.4/47

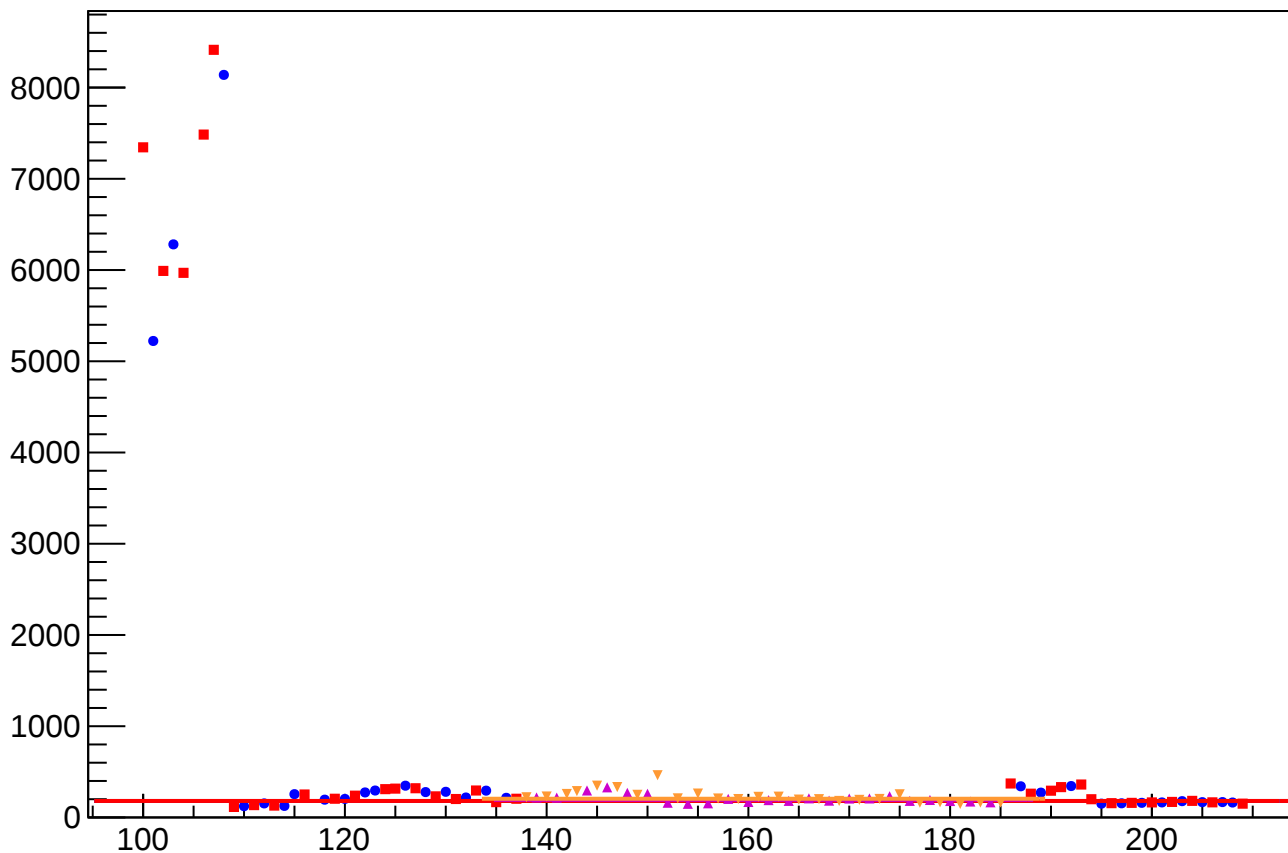
Right: -48.815 $\pm$ 36.447 χ^2 /NDF: 42.0/59

In: -11.181 $\pm$ 35.357 χ^2 /NDF: 31.6/50

Out: -39.348 $\pm$ 35.581 χ^2 /NDF: 30.3/56

All: -25.175 $\pm$ 25.080 χ^2 /NDF: 62.2/107

asym_cav4cQ_rms vs Slug, Sign Corrected



Right In: 180.488+/-0.037 χ^2/NDF : 4520870.2/27

Left Out: 205.027+/-0.035 χ^2/NDF :1956045.1/24

Right Out: 180.793+/-0.036 χ^2/NDF : 5414670.6/31

Left In: 193.405+/-0.034 χ^2/NDF :1172169.3/22

Left: 199.042+/-0.024 χ^2/NDF : 3184695.4/47

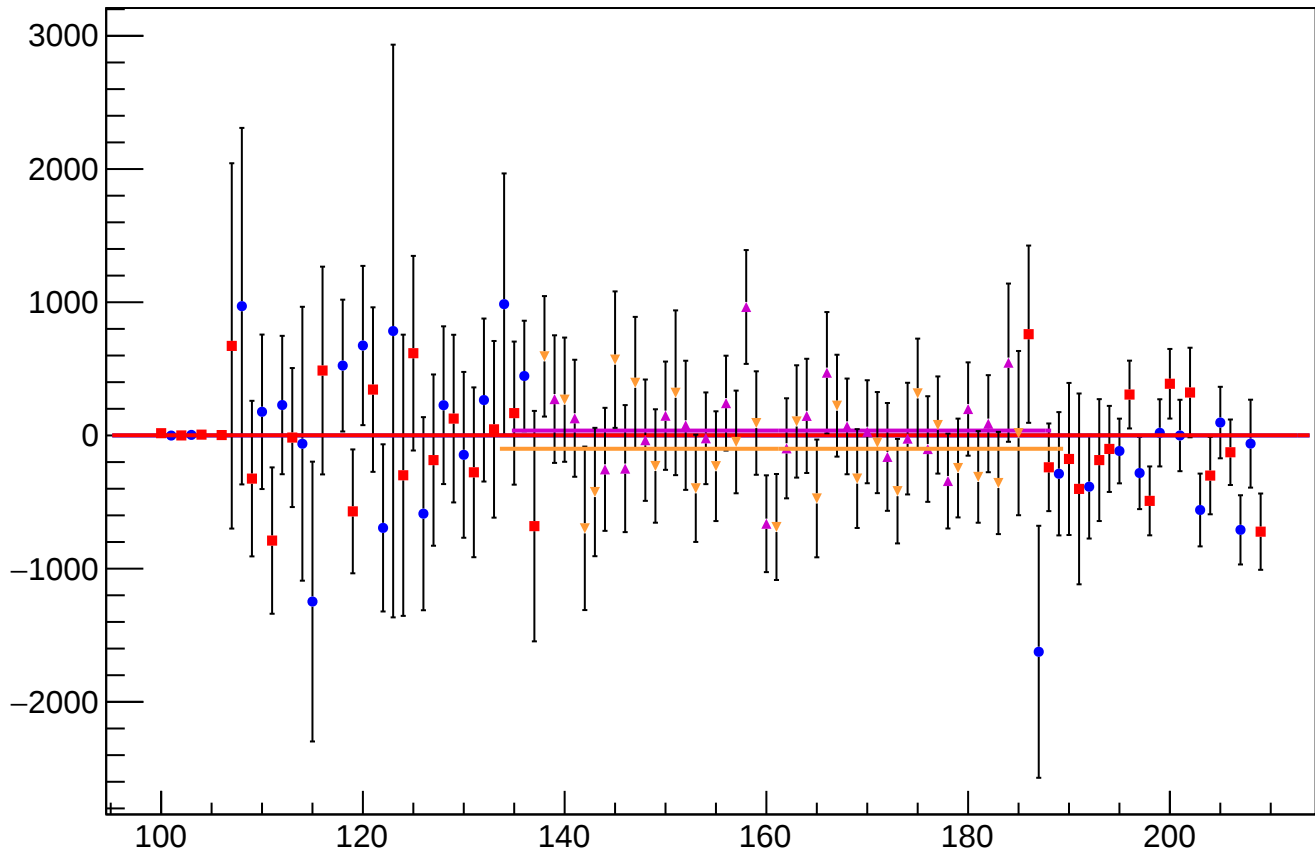
Right: 180.643+/-0.026 χ^2/NDF : 9935575.7/59

In: 187.448+/-0.025 χ^2/NDF :5759367.9/50

Out: 193.249+/-0.025 χ^2/NDF :7602483.7/56

All: 190.330+/-0.018 χ^2/NDF : 13388606.1/10

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: 1.290 $\pm$ 1.622 χ^2/NDF : 27.8/31

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

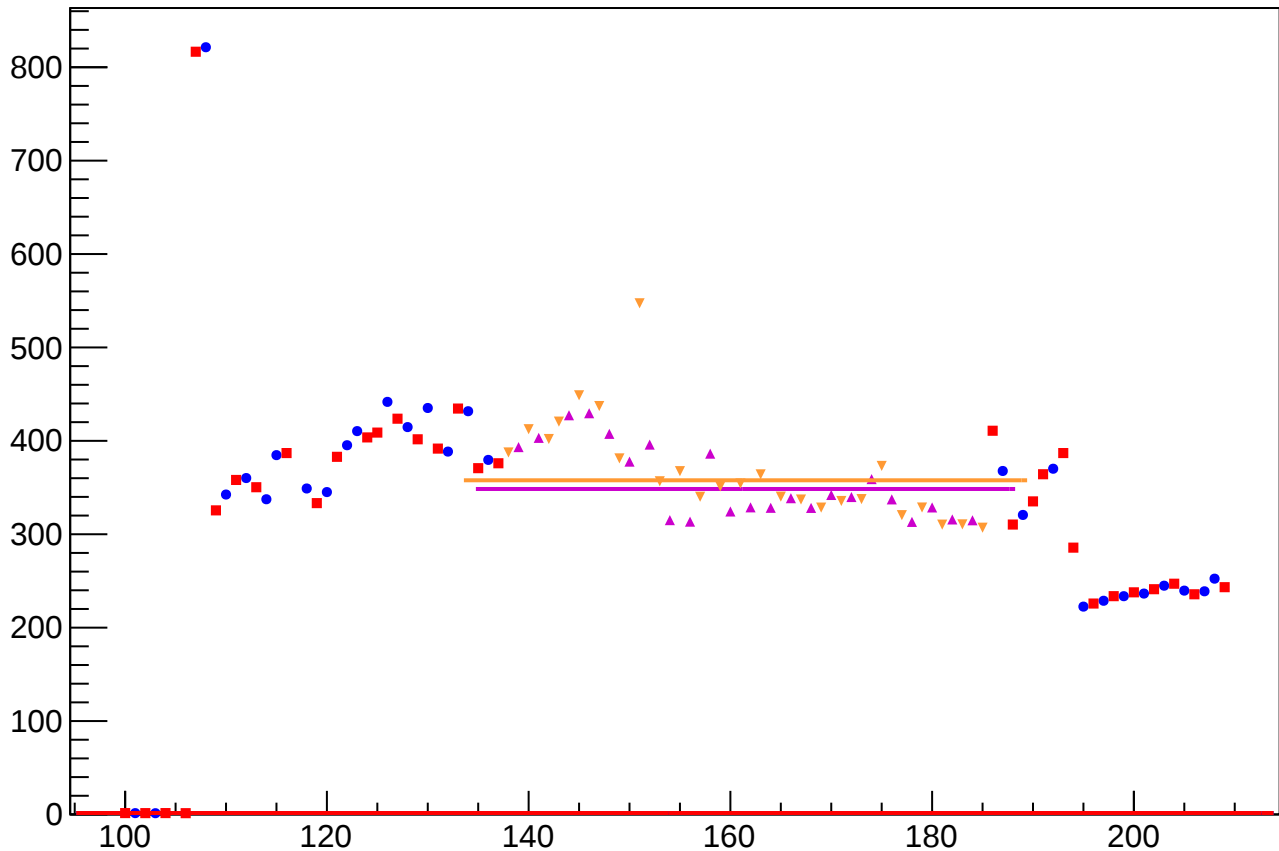
Right: 0.584 $\pm$ 1.185 χ^2/NDF : 55.7/59

In: -0.210 $\pm$ 1.736 χ^2/NDF :41.2/50

Out: 1.252 $\pm$ 1.622 χ^2/NDF :45.0/56

All: 0.571 $\pm$ 1.185 χ^2/NDF : 86.5/107

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: 1.536 $\pm$ 0.001 χ^2 /NDF: 28008175.4/31

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

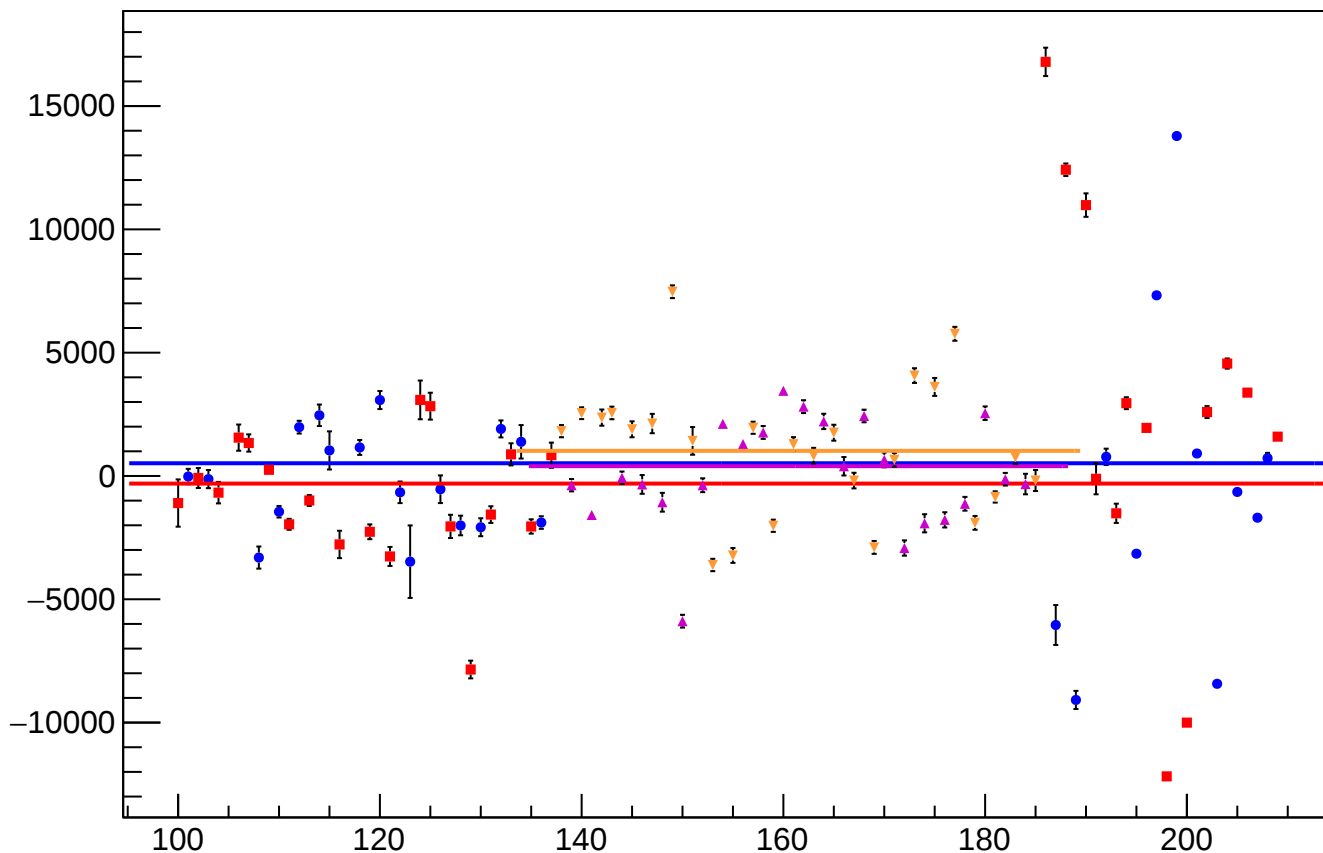
Right: 1.540 $\pm$ 0.001 χ^2 /NDF: 54254610.0/59

In: 1.690 $\pm$ 0.001 χ^2 /NDF: 60164487.5/50

Out: 1.668 $\pm$ 0.001 χ^2 /NDF: 64350413.7/56

All: 1.679 $\pm$ 0.001 χ^2 /NDF: 124515074.7/107

asym_bcm0l02_mean vs Slug, Sign Corrected



Right In: 515.644+/-51.727 χ^2/NDF : 10823.0/27

Left Out: 1018.965+/-57.402 χ^2/NDF : 2310.1/24

Right Out: -308.946+/-49.637 χ^2/NDF : 13326.6/31

Left In: 396.609+/-55.090 χ^2/NDF : 1581.0/22

Left: 695.002+/-39.747 χ^2/NDF : 3952.3/47

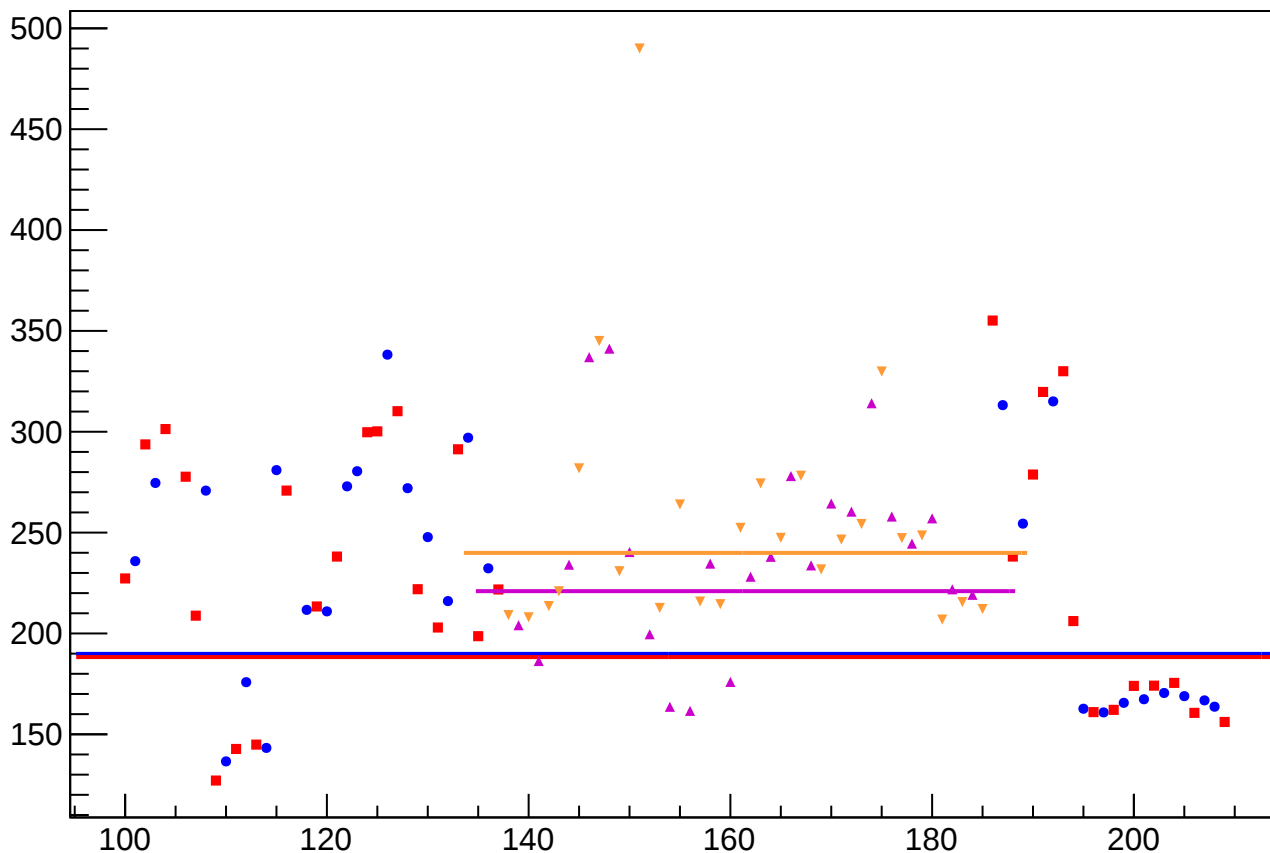
Right: 86.358+/-35.815 χ^2/NDF : 24281.9/59

In: 459.870+/-37.709 χ^2/NDF : 12406.4/50

Out: 259.188+/-37.546 χ^2/NDF : 15942.9/56

All: 359.094+/-26.607 χ^2/NDF : 28363.6/107

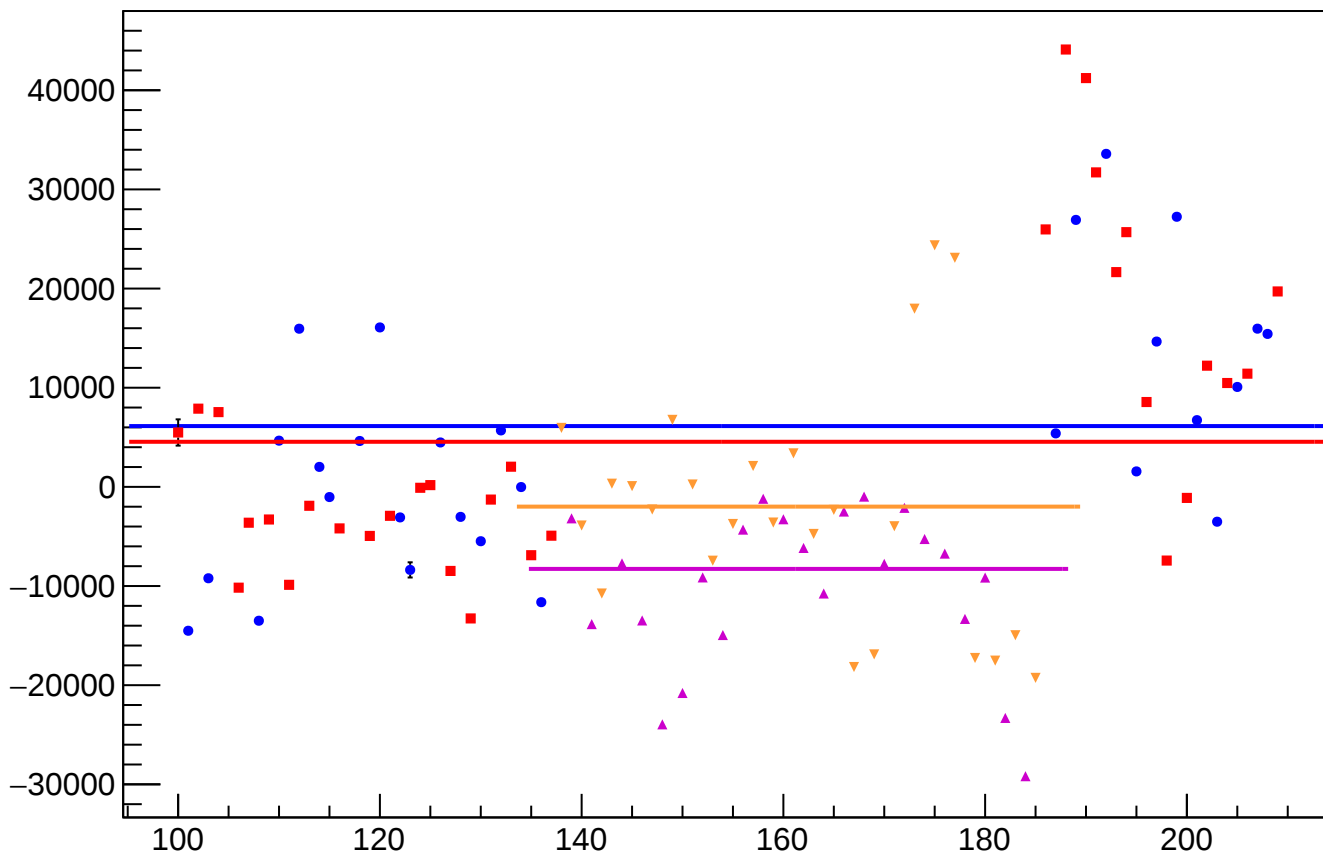
asym_bcm0l02_rms vs Slug, Sign Corrected



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: 188.288+/-0.035 χ^2/NDF : 2116322.0/31
 Left In: 220.972+/-0.039 χ^2/NDF :1327680.6/22

Left: 230.067+/-0.028 χ^2/NDF : 2442154.9/47
 Right: 189.047+/-0.025 χ^2/NDF : 3639603.3/59
 In: 204.443+/-0.027 χ^2/NDF :3188744.8/50
 Out: 210.388+/-0.027 χ^2/NDF :4043690.0/56
 All: 207.428+/-0.019 χ^2/NDF : 7257395.3/107

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: 4547.175+/-39.845

χ^2/NDF : 139268.0/31

Left In: -8273.228+/-44.301

χ^2/NDF : 22870.2/22

Left: -4996.810+/-30.641

χ^2/NDF : 97123.2/47

Right: 5297.371+/-28.913

χ^2/NDF : 230649.0/59

In: -690.312+/-30.487

χ^2/NDF : 169159.0/50

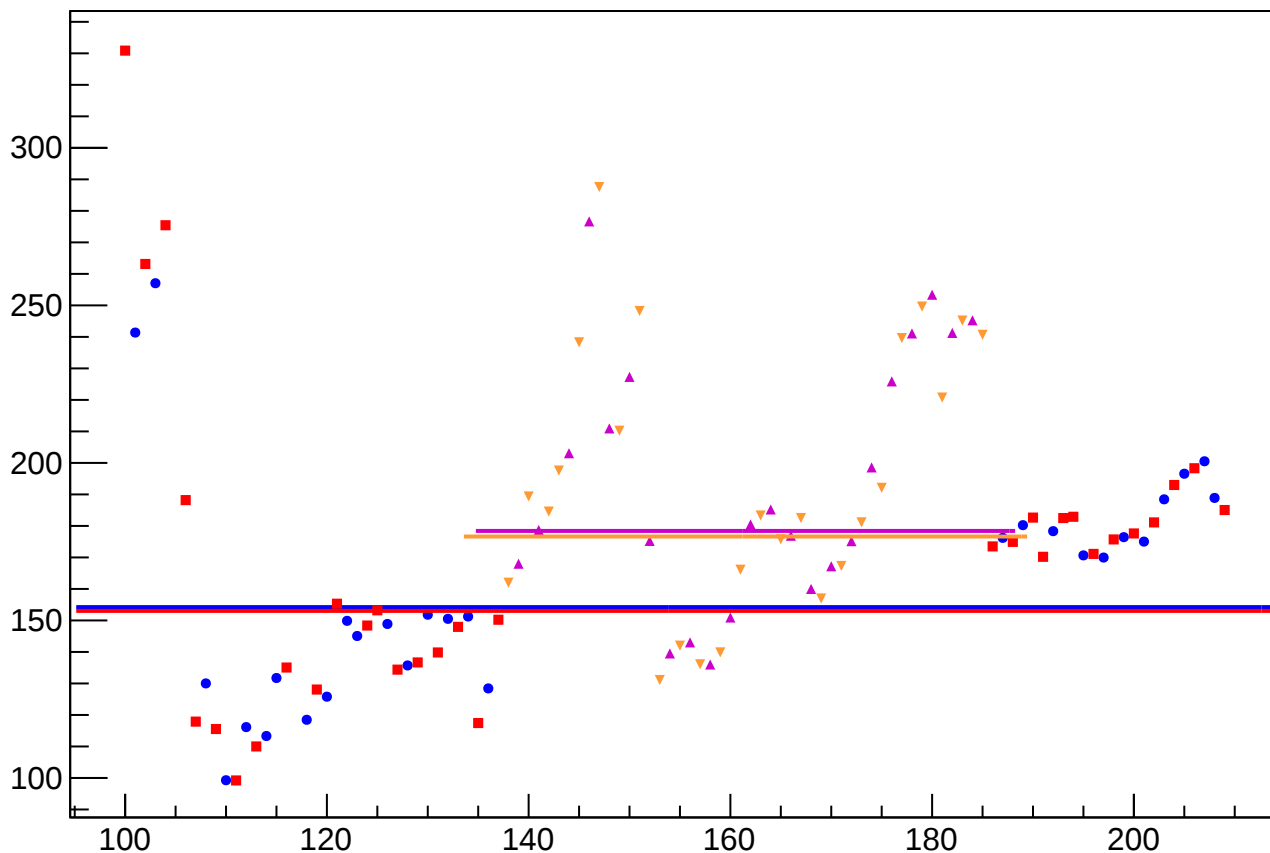
Out: 1482.703+/-29.044

χ^2/NDF : 215656.4/56

All: 448.824+/-21.029

χ^2/NDF : 387478.6/107

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: 153.031 ± 0.028 χ^2/NDF : 1575004.8/31

Left In: 178.413 ± 0.031 χ^2/NDF : 1293736.2/22

Left: 177.489 ± 0.022 χ^2/NDF : 2846455.0/47

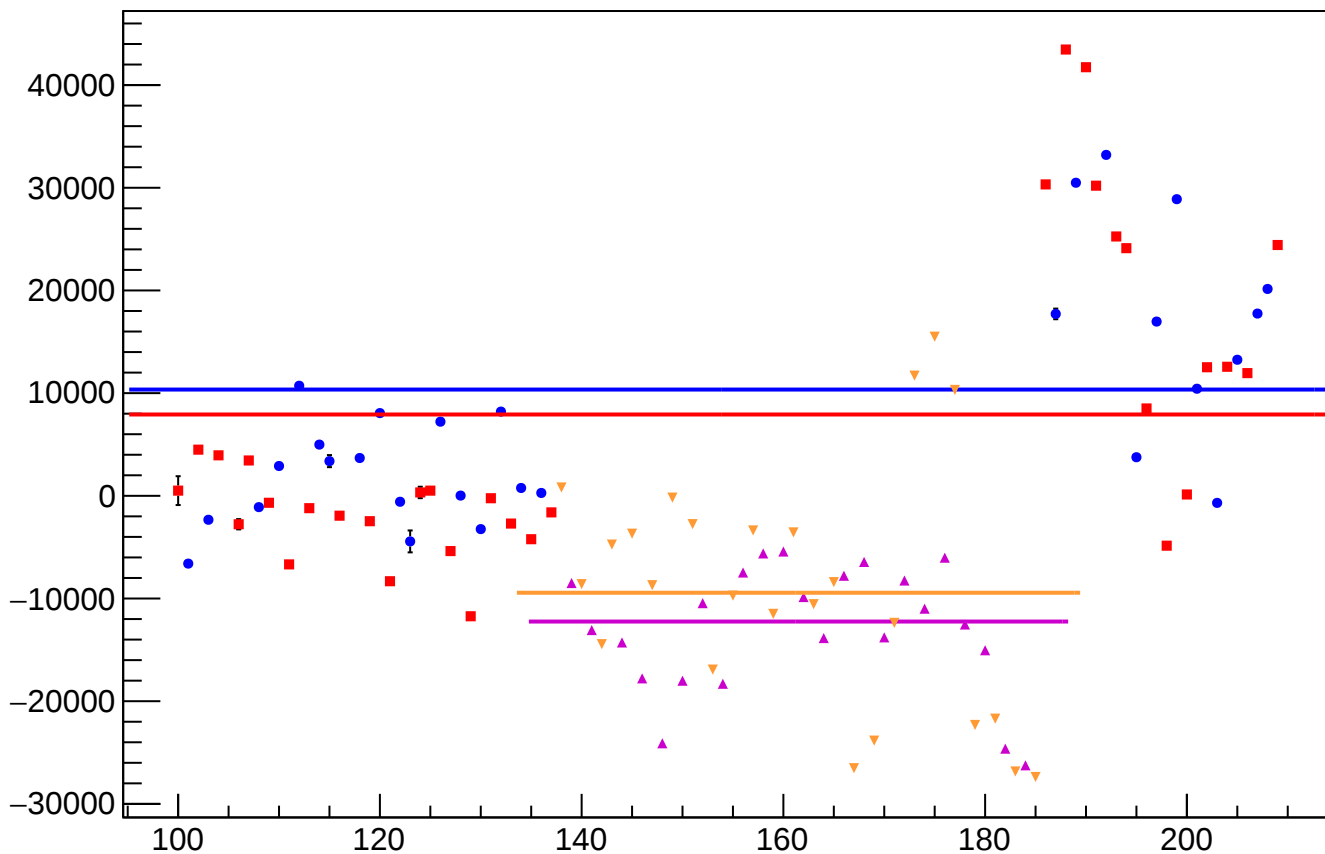
Right: 153.600 ± 0.020 χ^2/NDF : 2866415.0/59

In: 165.684 ± 0.022 χ^2/NDF : 2897967.2/50

Out: 164.096 ± 0.021 χ^2/NDF : 3455134.6/56

All: 164.851 ± 0.015 χ^2/NDF : 6355946.8/107

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: 9067.418+/-32.400

χ^2/NDF : 164229.3/59

Right Out: 7920.980+/-44.590

χ^2/NDF : 110584.1/31

In: -1742.540+/-32.150

χ^2/NDF : 191696.0/50

Out: -576.400+/-31.859

χ^2/NDF : 246989.2/56

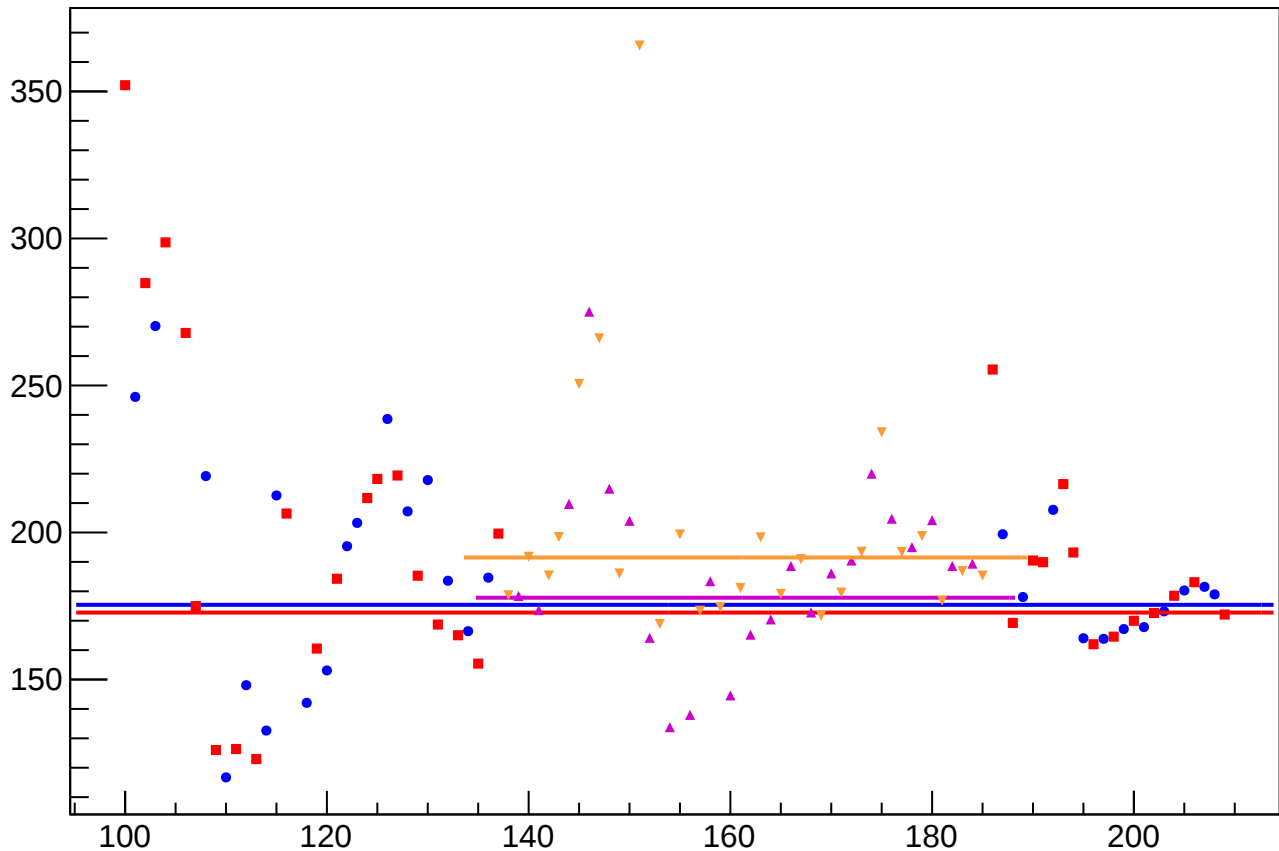
Left In: -12242.226+/-43.944

χ^2/NDF : 16615.8/22

All: -1154.161+/-22.630

χ^2/NDF : 439349.0/1

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: 172.773 ± 0.032 $\chi^2/\text{NDF}: 1131674.4/31$

Left In: 177.821 ± 0.031 $\chi^2/\text{NDF}: 862494.4/22$

Left: 184.421 ± 0.022 $\chi^2/\text{NDF}: 1683284.8/47$

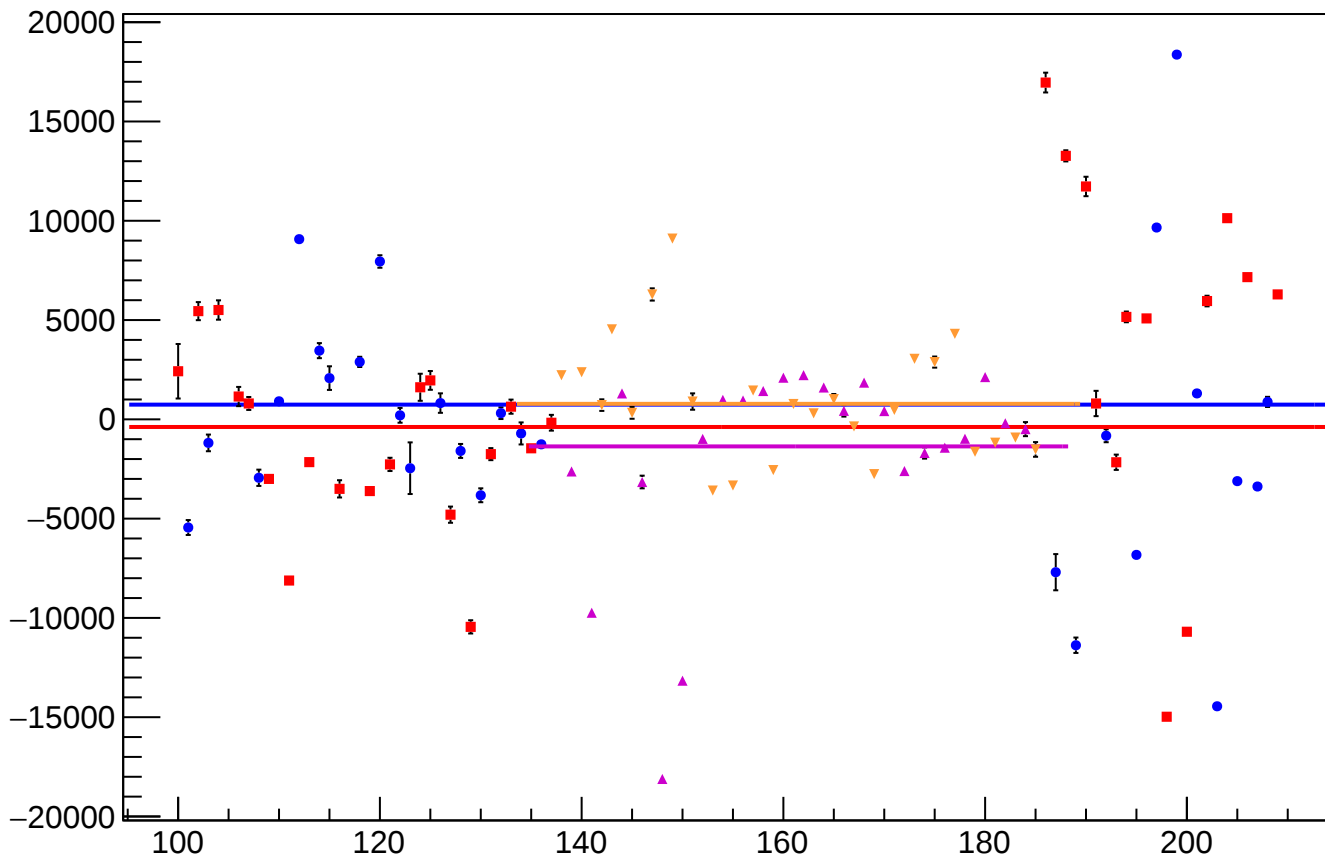
Right: 174.013 ± 0.023 $\chi^2/\text{NDF}: 1897259.9/59$

In: 176.697 ± 0.023 $\chi^2/\text{NDF}: 1627621.1/50$

Out: 181.944 ± 0.023 $\chi^2/\text{NDF}: 2031737.9/56$

All: 179.344 ± 0.016 $\chi^2/\text{NDF}: 3686238.6/107$

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: -384.528 ± 50.313 $\chi^2/\text{NDF}: 21349.8/31$

Left In: -1363.043 ± 45.807 $\chi^2/\text{NDF}: 11632.9/22$

Left: -329.448 ± 32.958 $\chi^2/\text{NDF}: 16949.3/47$

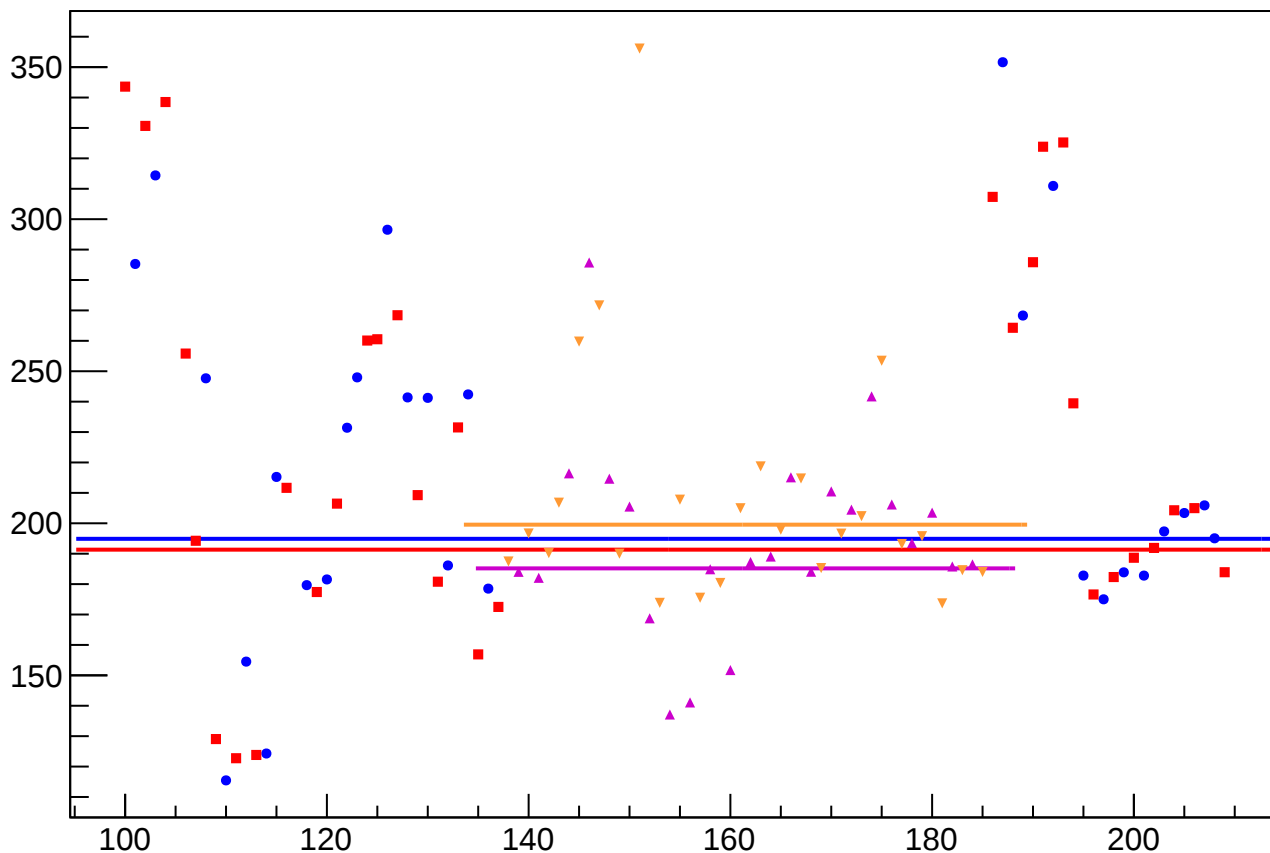
Right: 149.169 ± 36.479 $\chi^2/\text{NDF}: 41925.2/59$

In: -462.910 ± 34.648 $\chi^2/\text{NDF}: 32873.5/50$

Out: 231.715 ± 34.523 $\chi^2/\text{NDF}: 25894.0/56$

All: -114.346 ± 24.455 $\chi^2/\text{NDF}: 58969.2/107$

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: 191.329 ± 0.036 χ^2/NDF : 2144713.7/31

Left In: 185.171 ± 0.032 χ^2/NDF : 882752.2/22

Left: 192.104 ± 0.023 χ^2/NDF : 1707122.0/47

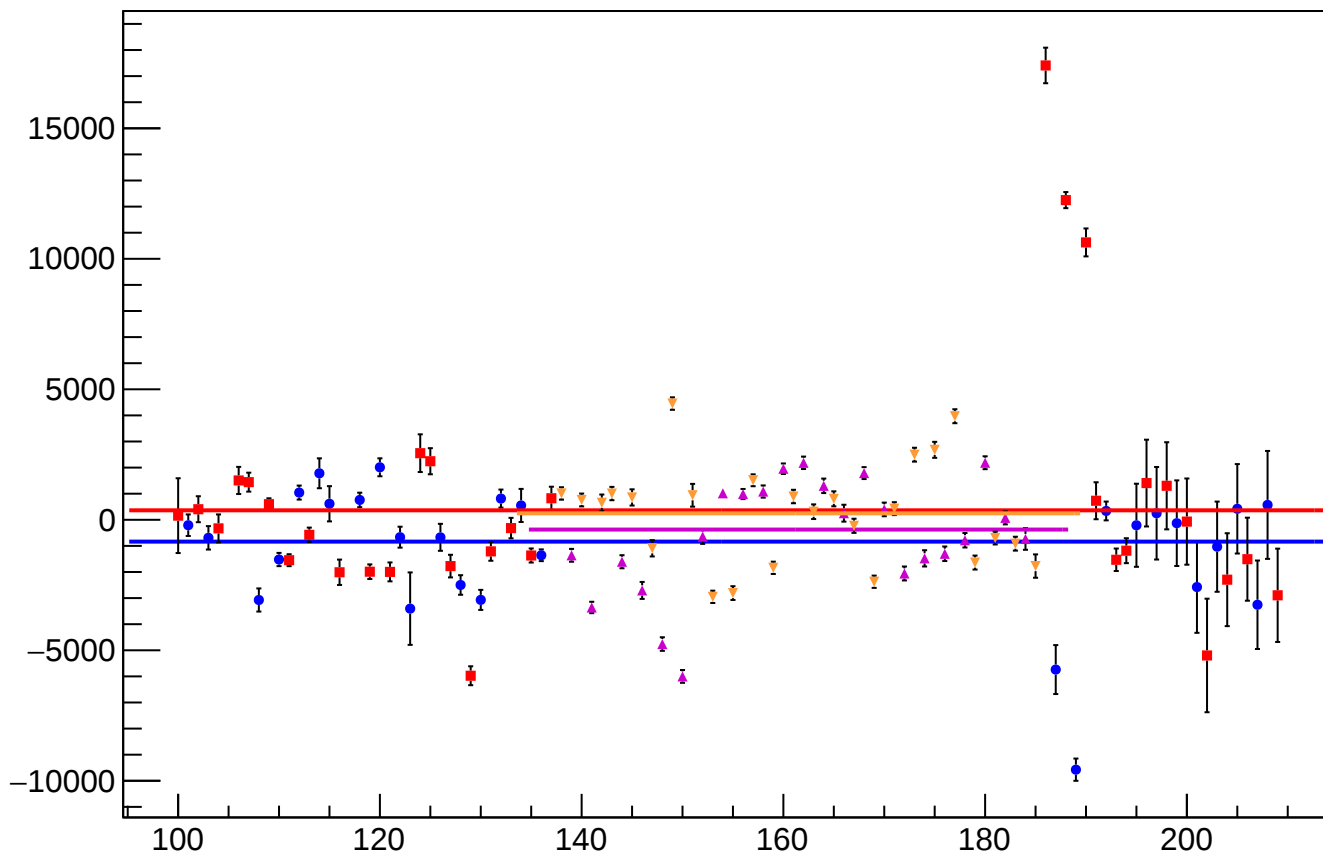
Right: 193.020 ± 0.026 χ^2/NDF : 3564854.7/59

In: 189.330 ± 0.024 χ^2/NDF : 2336684.5/50

Out: 195.678 ± 0.024 χ^2/NDF : 2902302.1/56

All: 192.516 ± 0.017 χ^2/NDF : 5272669.8/107

asym_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -835.946 ± 83.372 $\chi^2/\text{NDF}: 764.2/27$

Left Out: 247.844 ± 53.555 $\chi^2/\text{NDF}: 1355.1/24$

Right Out: 363.269 ± 74.924 $\chi^2/\text{NDF}: 3176.1/31$

Left In: -374.122 ± 52.049 $\chi^2/\text{NDF}: 1801.0/22$

Left: -72.006 ± 37.325 $\chi^2/\text{NDF}: 3225.5/47$

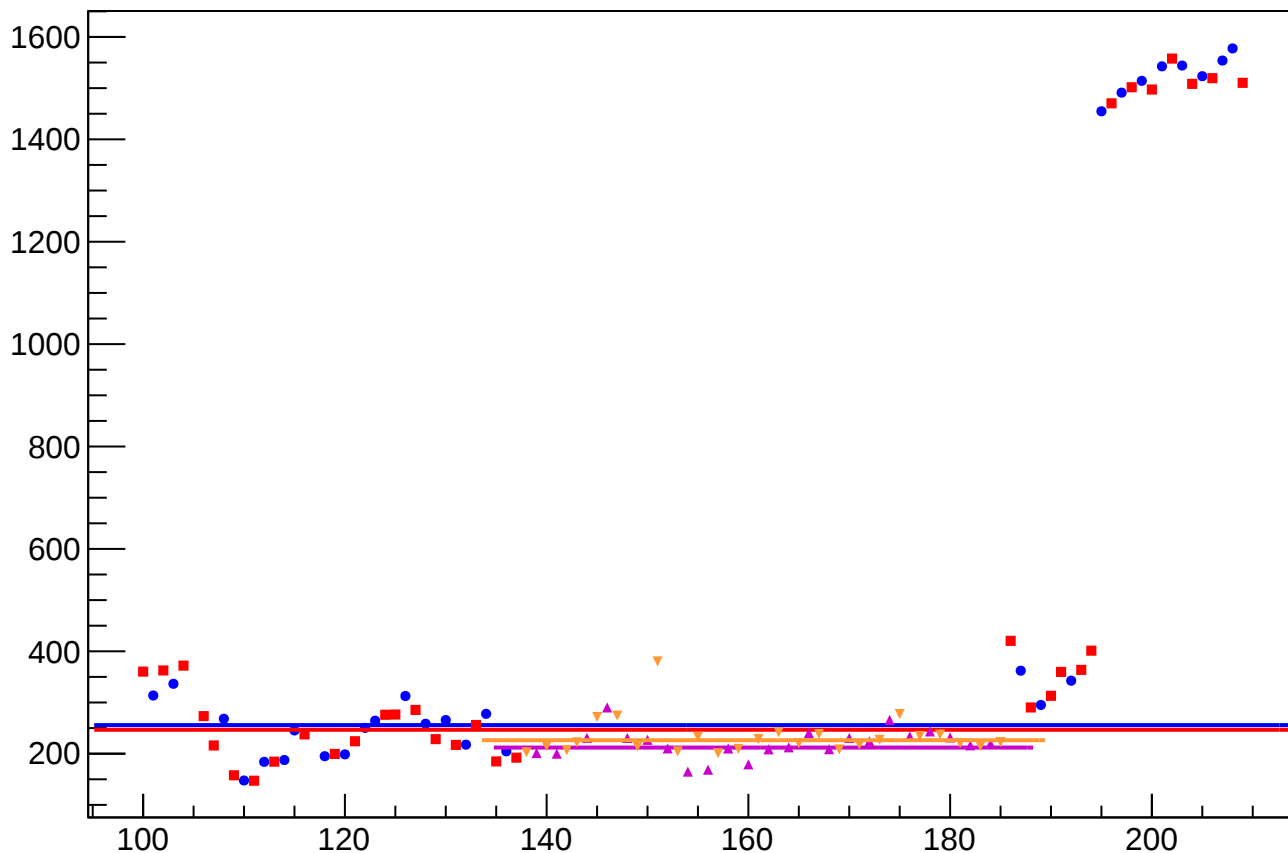
Right: -172.518 ± 55.727 $\chi^2/\text{NDF}: 4054.7/59$

In: -503.638 ± 44.151 $\chi^2/\text{NDF}: 2587.3/50$

Out: 286.875 ± 43.569 $\chi^2/\text{NDF}: 4532.8/56$

All: -103.133 ± 31.012 $\chi^2/\text{NDF}: 7282.5/107$

asym_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 255.878+/-0.059 χ^2/NDF : 9660935.2/27

Left Out: 226.322+/-0.038 χ^2/NDF : 521041.8/24

Right Out: 246.769+/-0.053 χ^2/NDF : 9270462.8/31

Left In: 211.970+/-0.037 χ^2/NDF : 584344.5/22

Left: 218.941+/-0.026 χ^2/NDF : 1179246.7/47

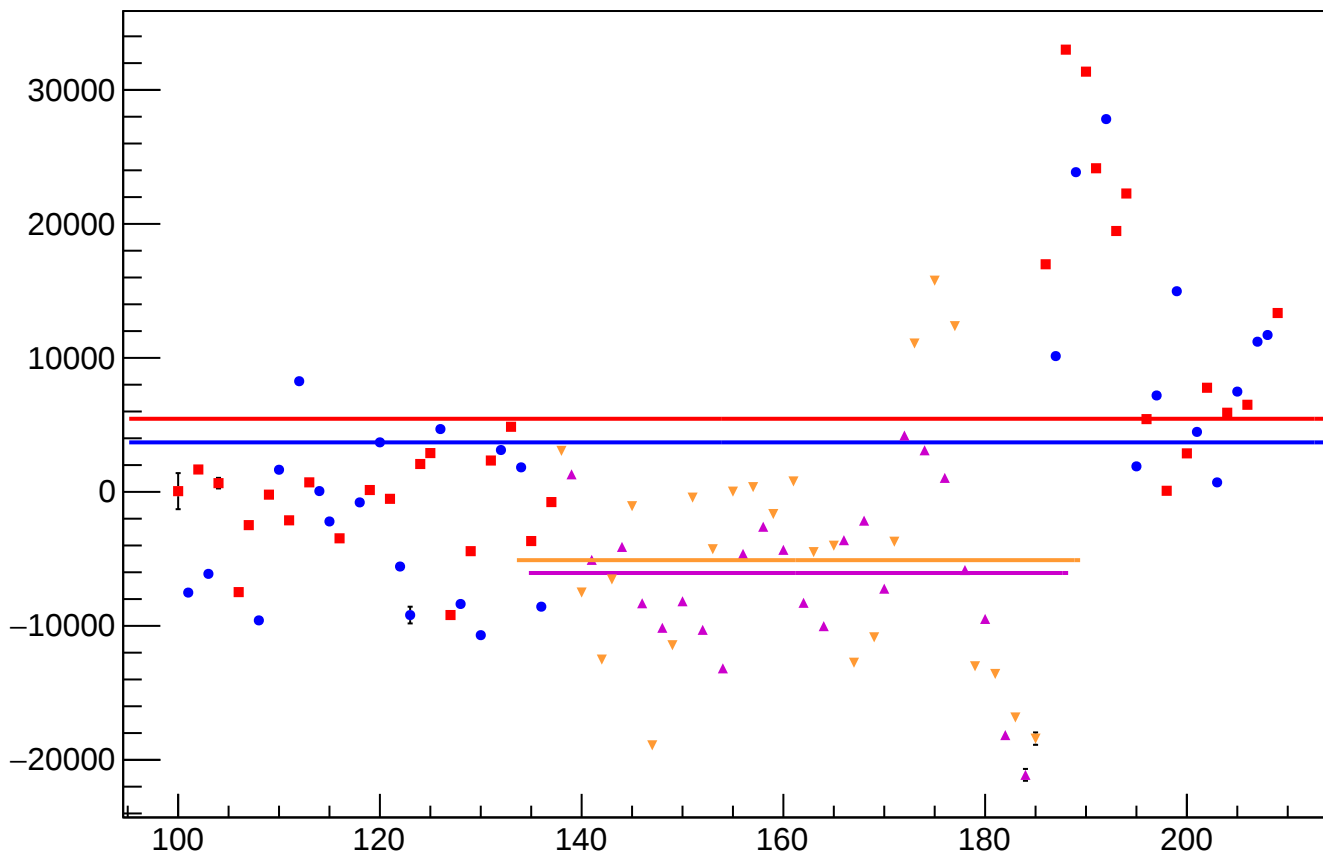
Right: 250.839+/-0.039 χ^2/NDF : 18944605.1/59

In: 224.284+/-0.031 χ^2/NDF : 10644432.1/50

Out: 233.236+/-0.031 χ^2/NDF : 9890093.9/56

All: 228.820+/-0.022 χ^2/NDF : 20576184.8/10

asym_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: 3694.951+/-35.717

χ^2/NDF : 77238.0/27

Left: -5556.386+/-24.277

χ^2/NDF : 72374.6/47

Left Out: -5095.305+/-33.703

χ^2/NDF : 54395.4/24

Right: 4629.209+/-24.476

χ^2/NDF : 181400.5/59

Right Out: 5456.325+/-33.607

χ^2/NDF : 102872.6/31

In: -1278.447+/-24.998

χ^2/NDF : 132832.8/50

Out: 195.648+/-23.798

χ^2/NDF : 206415.8/56

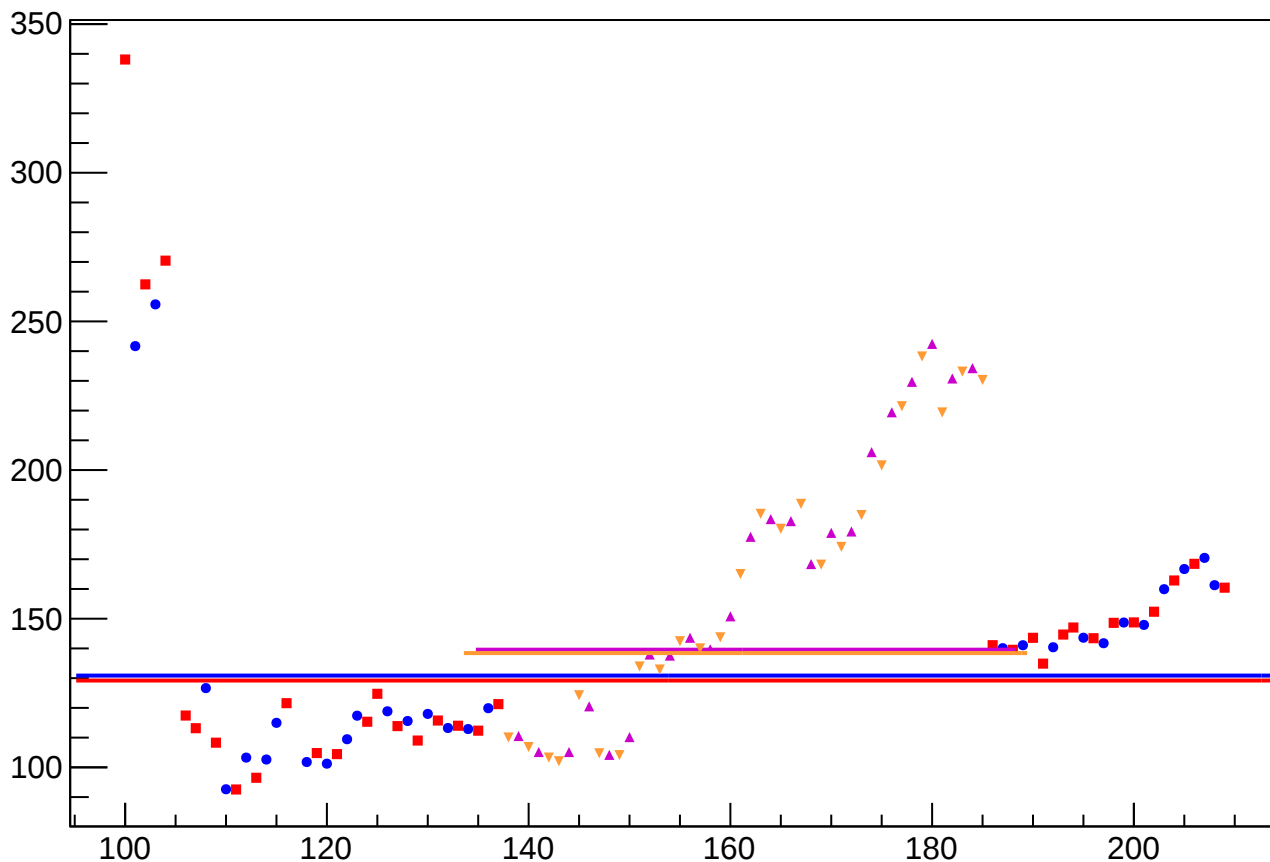
Left In: -6053.569+/-34.998

χ^2/NDF : 17590.3/22

All: -505.169+/-17.236

χ^2/NDF : 341072.8/10

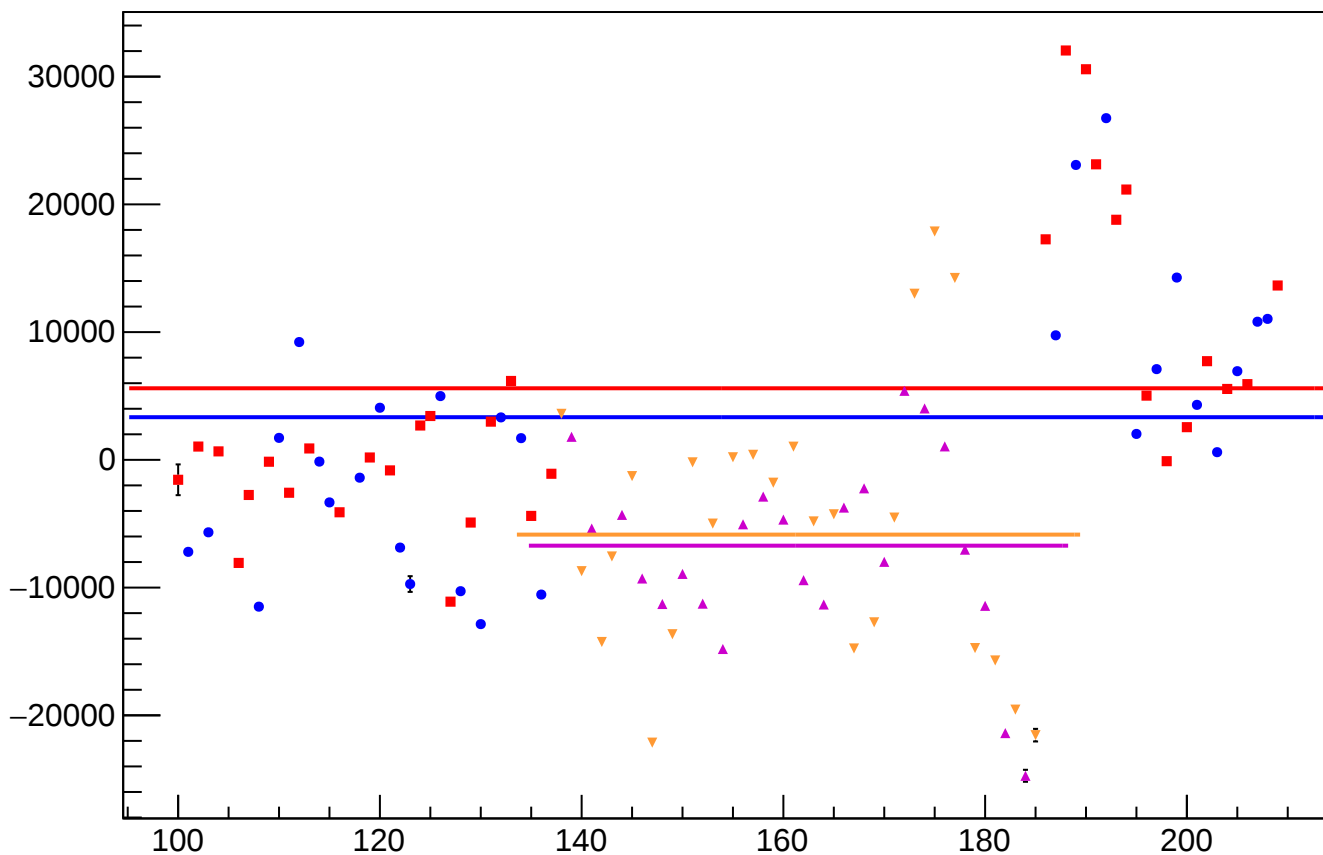
asym_bpm1i02WS_rms vs Slug, Sign Corrected



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: 129.205+/-0.024 χ^2/NDF : 1417392.3/31
 Left In: 139.578+/-0.025 χ^2/NDF : 2413658.9/22

Left: 138.985+/-0.017 χ^2/NDF : 4964199.7/47
 Right: 129.985+/-0.017 χ^2/NDF : 2706651.4/59
 In: 135.310+/-0.018 χ^2/NDF : 3761330.8/50
 Out: 133.807+/-0.017 χ^2/NDF : 4042048.4/56
 All: 134.522+/-0.012 χ^2/NDF : 7807172.4/107

asym_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: 3338.979 $\pm$ 35.795

χ^2/NDF : 82360.4/27

Left: -6268.993 $\pm$ 25.850

χ^2/NDF : 84625.8/47

Left Out: -5852.544 $\pm$ 35.880

χ^2/NDF : 63411.4/24

Right: 4535.369 $\pm$ 24.579

χ^2/NDF : 188001.3/59

Right Out: 5602.769 $\pm$ 33.810

χ^2/NDF : 103527.1/31

In: -1486.043 $\pm$ 25.818

χ^2/NDF : 141168.9/50

Out: 214.972 $\pm$ 24.607

χ^2/NDF : 220929.2/56

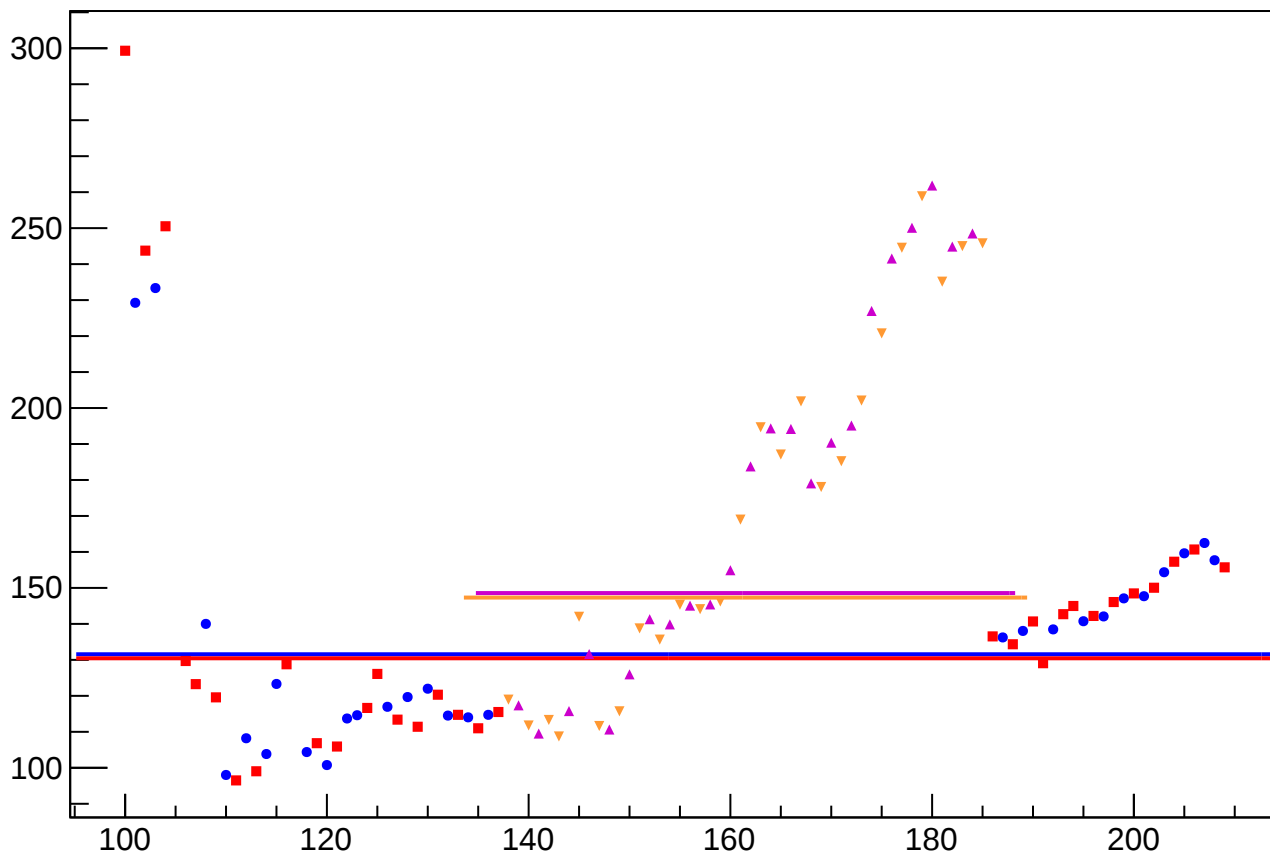
Left In: -6718.475 $\pm$ 37.276

χ^2/NDF : 20934.3/22

All: -594.680 $\pm$ 17.813

χ^2/NDF : 364372.7/10

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: 130.439+/-0.024 χ^2/NDF : 1109390.2/31

Left In: 148.569+/-0.026 χ^2/NDF : 2393185.0/22

Left: 147.919+/-0.018 χ^2/NDF : 4906034.9/47

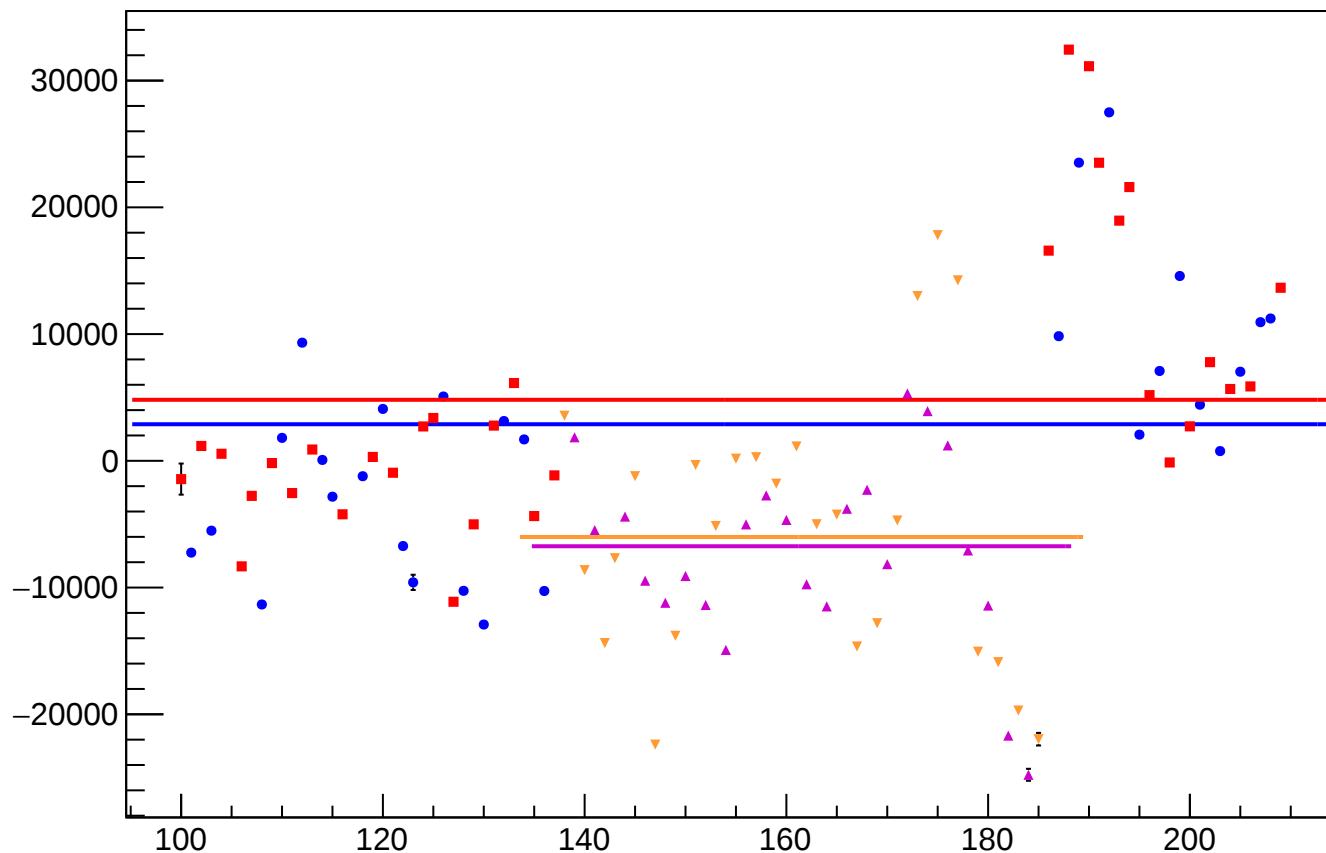
Right: 130.967+/-0.017 χ^2/NDF : 2136539.0/59

In: 139.718+/-0.018 χ^2/NDF : 3636003.2/50

Out: 138.378+/-0.017 χ^2/NDF : 3855474.5/56

All: 139.016+/-0.013 χ^2/NDF : 7494304.6/107

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: 4815.219+/-33.669

χ^2/NDF : 98415.7/31

Left In: -6740.666+/-36.379

χ^2/NDF : 22071.8/22

Left: -6362.031+/-25.253

χ^2/NDF : 90133.1/47

Right: 3903.246+/-24.447

χ^2/NDF : 181866.6/59

In: -1816.819+/-25.427

χ^2/NDF : 139787.1/50

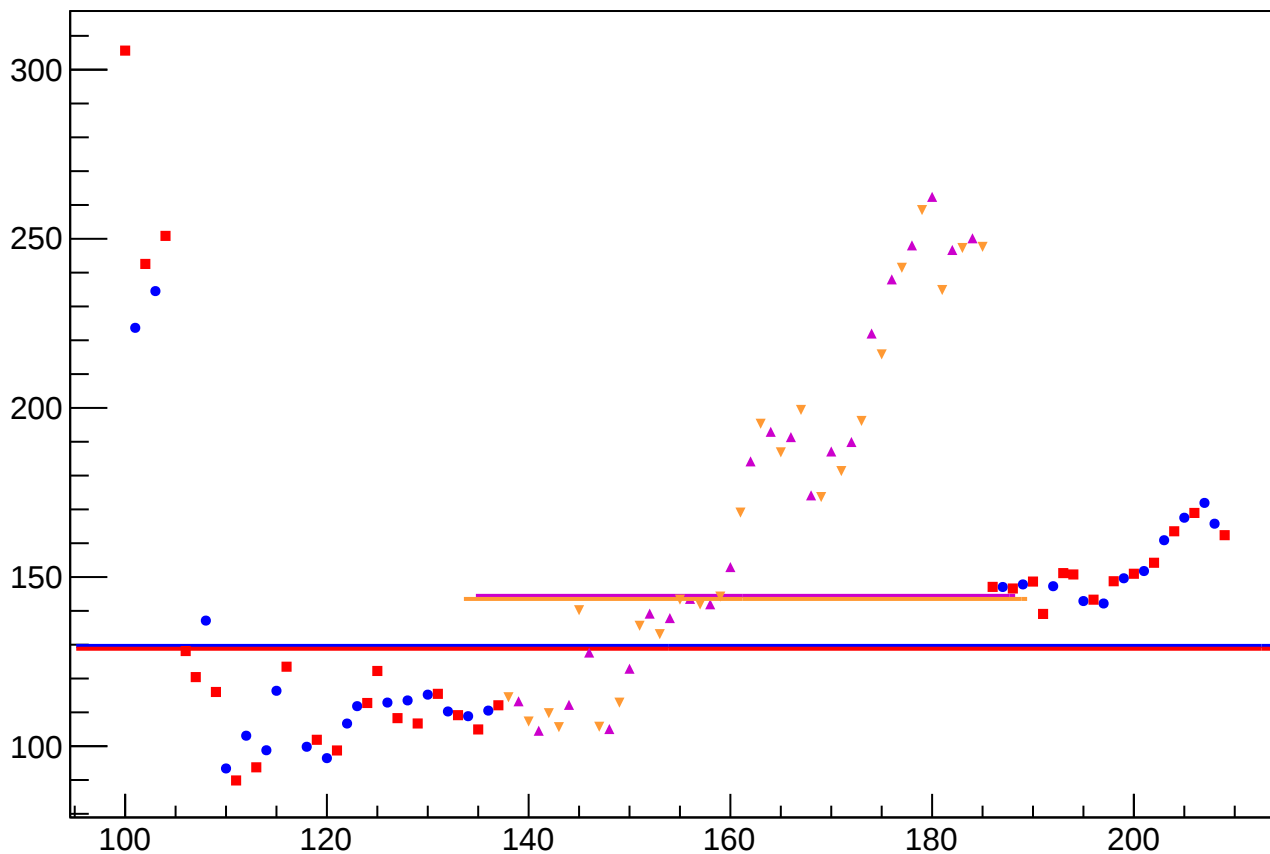
Out: -374.857+/-24.292

χ^2/NDF : 215830.6/56

All: -1062.918+/-17.565

χ^2/NDF : 357299.1/11

asym_bpm2i02WS_rms vs Slug, Sign Corrected



Right In: 129.644+/-0.025 χ^2/NDF : 1371623.7/27

Left Out: 143.531+/-0.025 χ^2/NDF : 2704790.3/24

Right Out: 128.806+/-0.024 χ^2/NDF : 1528611.6/31

Left In: 144.440+/-0.026 χ^2/NDF : 2586926.1/22

Left: 143.969+/-0.018 χ^2/NDF : 5292363.3/47

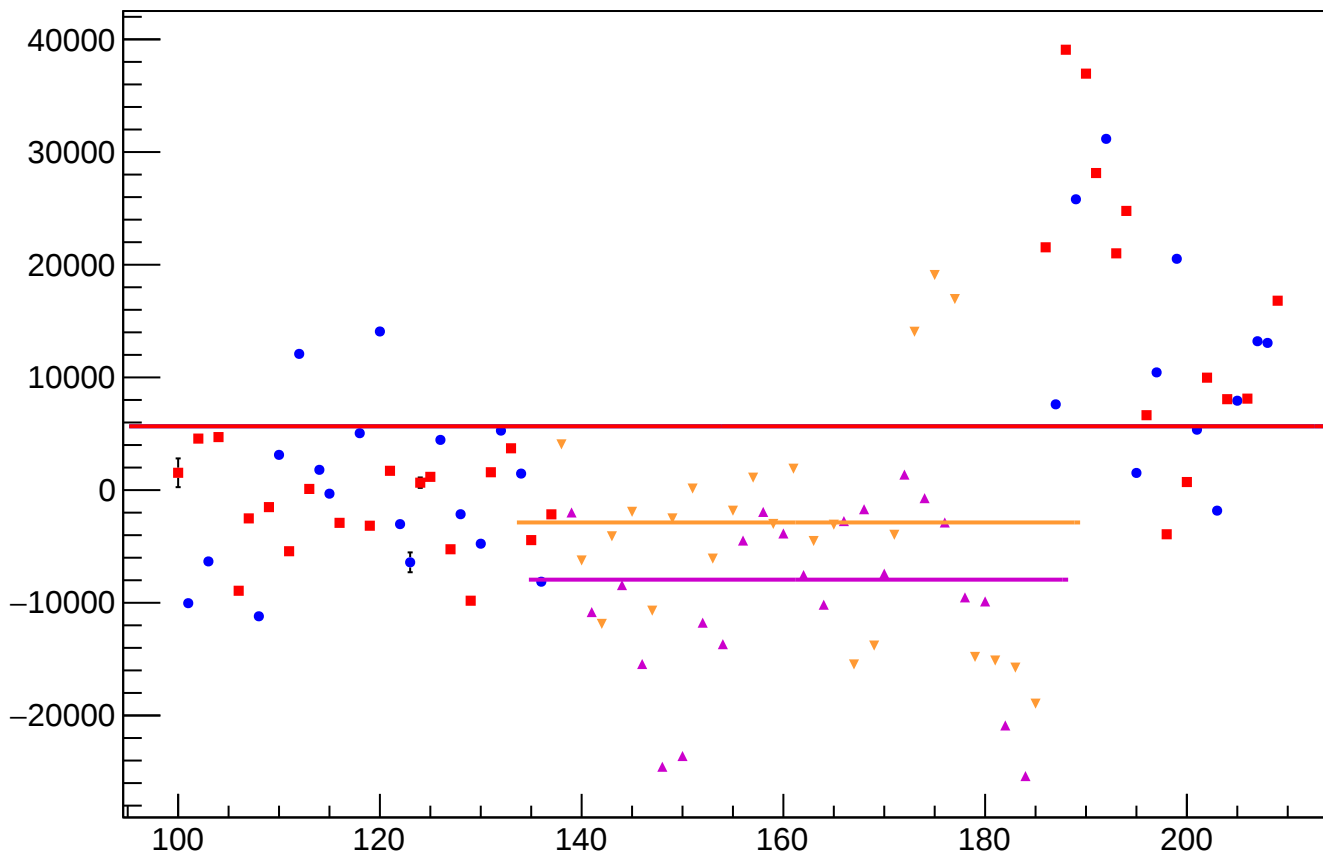
Right: 129.202+/-0.017 χ^2/NDF : 2900820.5/59

In: 136.872+/-0.018 χ^2/NDF : 4127754.8/50

Out: 135.866+/-0.017 χ^2/NDF : 4416799.1/56

All: 136.346+/-0.012 χ^2/NDF : 8546191.4/107

asym_bpm0i01WS_mean vs Slug, Sign Corrected



Right In: 5662.602+/-43.014 χ^2/NDF : 61937.5/27

Left Out: -2870.473+/-39.482 χ^2/NDF : 46420.3/24

Right Out: 5663.536+/-40.722 χ^2/NDF : 98021.8/31

Left In: -7947.160+/-41.726 χ^2/NDF : 23874.5/22

Left: -5268.670+/-28.678 χ^2/NDF : 78105.0/47

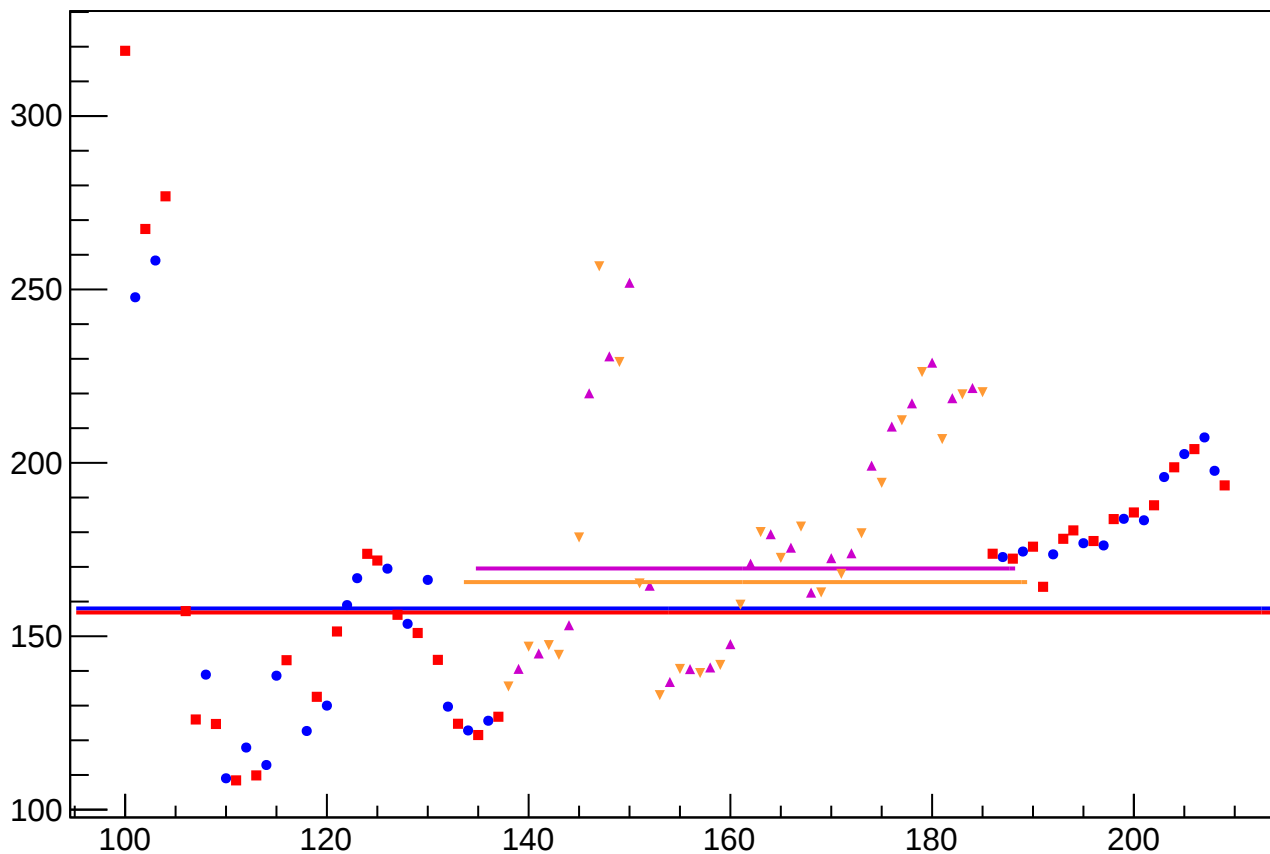
Right: 5663.094+/-29.572 χ^2/NDF : 159959.3/59

In: -1349.207+/-29.950 χ^2/NDF : 137388.5/50

Out: 1264.662+/-28.346 χ^2/NDF : 167080.3/56

All: 29.573+/-20.587 χ^2/NDF : 308486.6/107

asym_bpm0i01WS_rms vs Slug, Sign Corrected



Right In: 158.011 $\pm$ 0.030 χ^2 /NDF: 1310132.6/27

Left Out: 165.616 $\pm$ 0.028 χ^2 /NDF:1144779.3/24

Right Out: 156.849 $\pm$ 0.029 χ^2 /NDF: 1443106.9/31

Left In: 169.542 $\pm$ 0.030 χ^2 /NDF:1159241.9/22

Left: 167.471 $\pm$ 0.020 χ^2 /NDF: 2313359.6/47

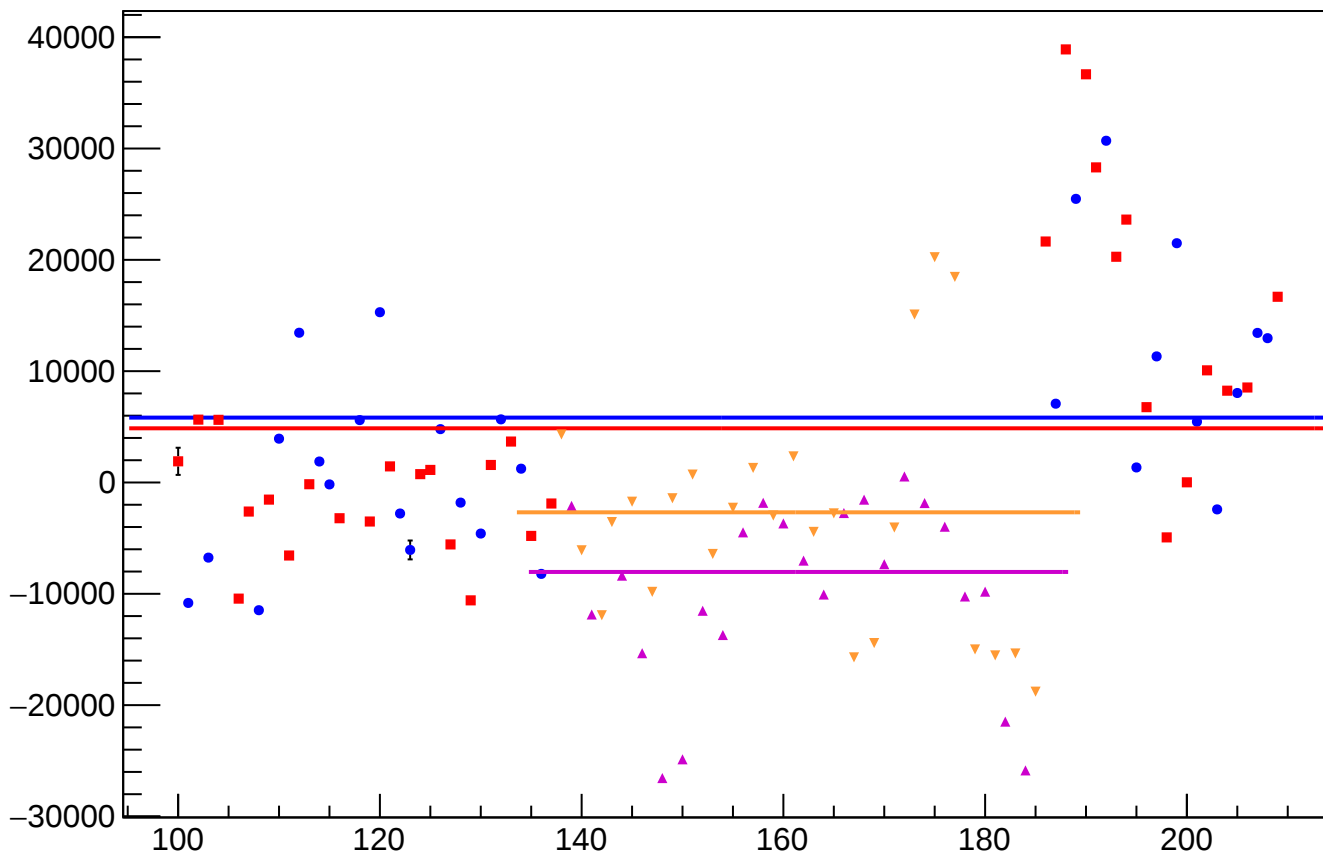
Right: 157.399 $\pm$ 0.021 χ^2 /NDF: 2754009.2/59

In: 163.952 $\pm$ 0.021 χ^2 /NDF:2543412.1/50

Out: 161.368 $\pm$ 0.020 χ^2 /NDF:2635667.4/56

All: 162.589 $\pm$ 0.015 χ^2 /NDF: 5186929.4/107

asym_bpm0i01aWS_mean vs Slug, Sign Corrected



Right In: 5827.688+/-36.310

χ^2/NDF : 87024.7/27

Left Out: -2680.012+/-35.764

χ^2/NDF : 56820.4/24

Right Out: 4866.626+/-34.170

χ^2/NDF : 136843.2/31

Left In: -8036.826+/-37.924

χ^2/NDF : 29261.6/22

Left: -5201.473+/-26.019

χ^2/NDF : 96642.3/47

Right: 5318.010+/-24.884

χ^2/NDF : 224239.4/59

In: -803.183+/-26.227

χ^2/NDF : 186017.0/50

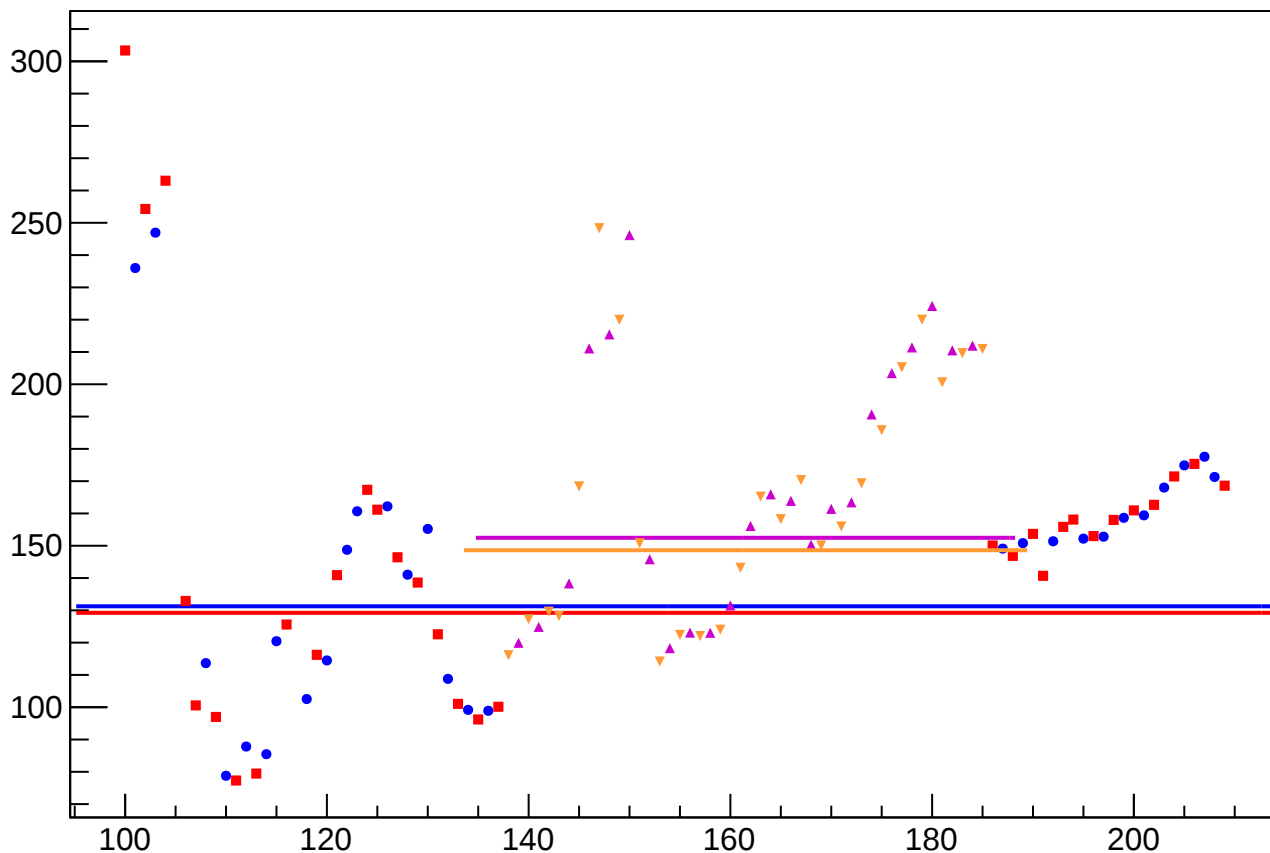
Out: 1265.141+/-24.706

χ^2/NDF : 216941.0/56

All: 292.690+/-17.984

χ^2/NDF : 406253.2/107

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: 129.233 ± 0.024 χ^2/NDF : 2317880.8/31

Left In: 152.463 ± 0.027 χ^2/NDF : 1691517.7/22

Left: 150.424 ± 0.018 χ^2/NDF : 3387867.0/47

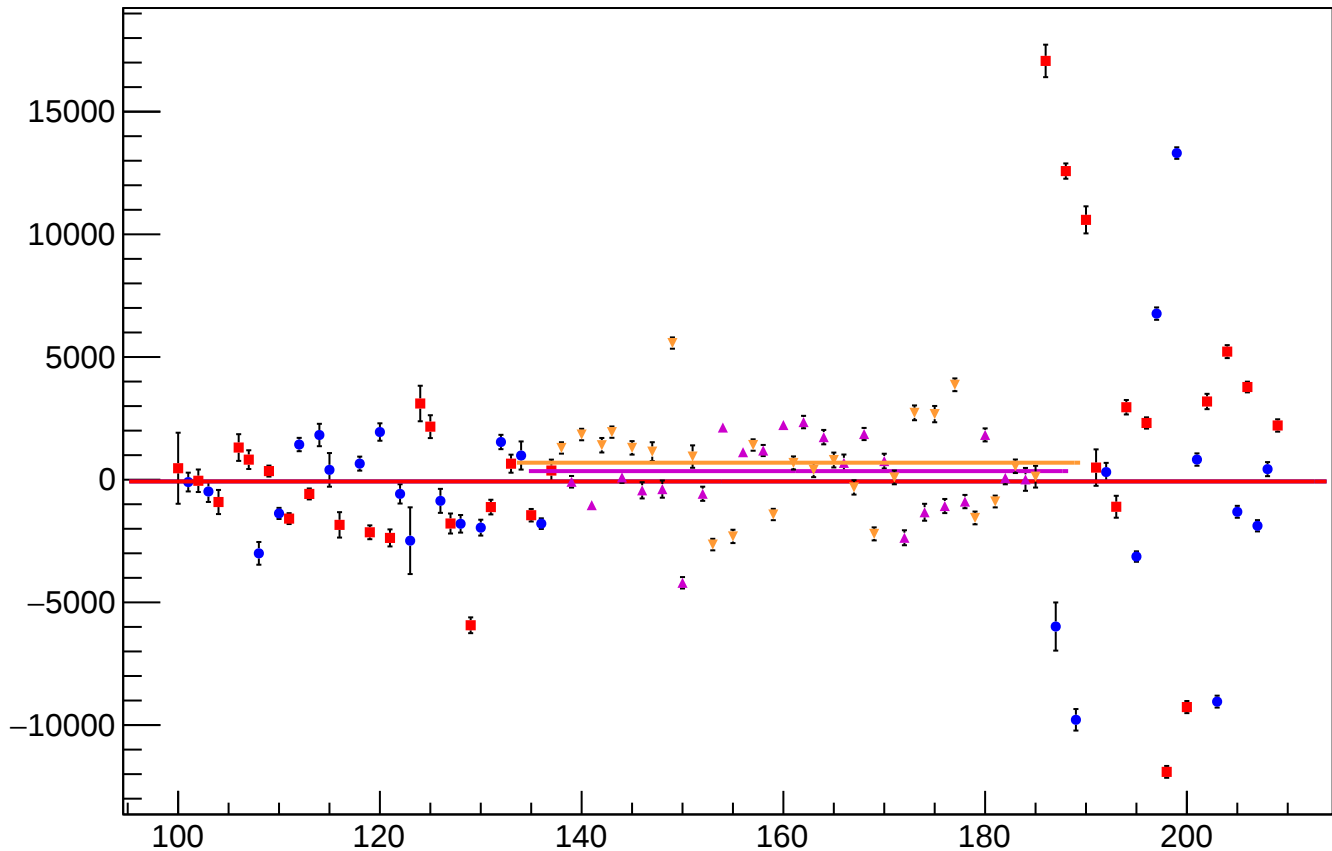
Right: 130.182 ± 0.018 χ^2/NDF : 4342503.0/59

In: 141.397 ± 0.019 χ^2/NDF : 4039257.7/50

Out: 138.481 ± 0.017 χ^2/NDF : 4310254.3/56

All: 139.852 ± 0.013 χ^2/NDF : 8362615.5/107

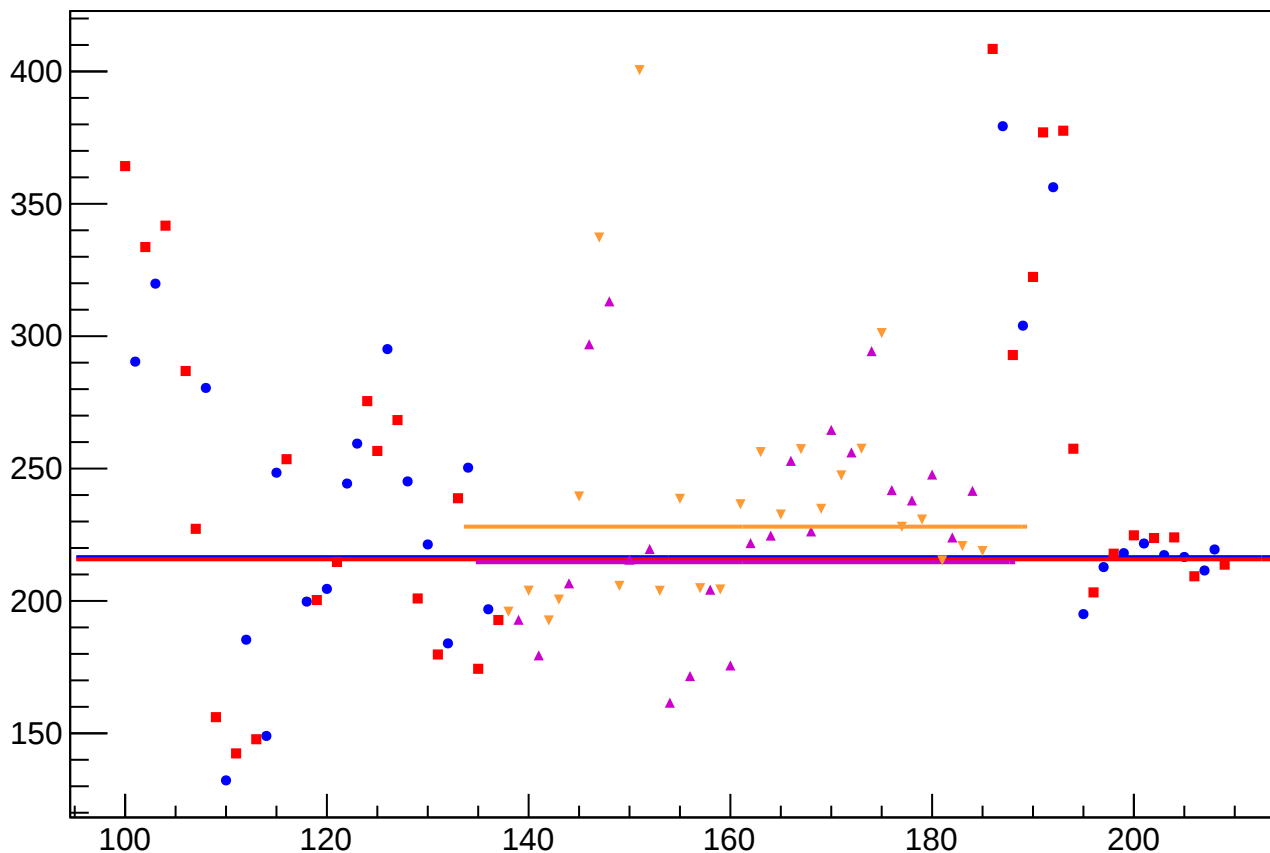
asym_bpm0l01WS_mean vs Slug, Sign Corrected



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: -71.034 ± 56.454 χ^2/NDF : 8215.9/31
 Left In: 349.623 ± 53.094 χ^2/NDF : 981.0/22

Left: 517.444 ± 37.963 χ^2/NDF : 2423.4/47
 Right: -70.383 ± 40.647 χ^2/NDF : 14704.0/59
 In: 160.493 ± 39.338 χ^2/NDF : 7497.2/50
 Out: 325.810 ± 39.136 χ^2/NDF : 9733.1/56
 All: 243.576 ± 27.745 χ^2/NDF : 17239.2/107

asym_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 216.539 $\pm$ 0.041 χ^2 /NDF: 1150967.2/27

Left Out: 228.061 $\pm$ 0.038 χ^2 /NDF: 826343.8/24

Right Out: 215.722 $\pm$ 0.040 χ^2 /NDF: 1822737.2/31

Left In: 214.627 $\pm$ 0.038 χ^2 /NDF: 1025683.3/22

Left: 221.193 $\pm$ 0.027 χ^2 /NDF: 1914604.4/47

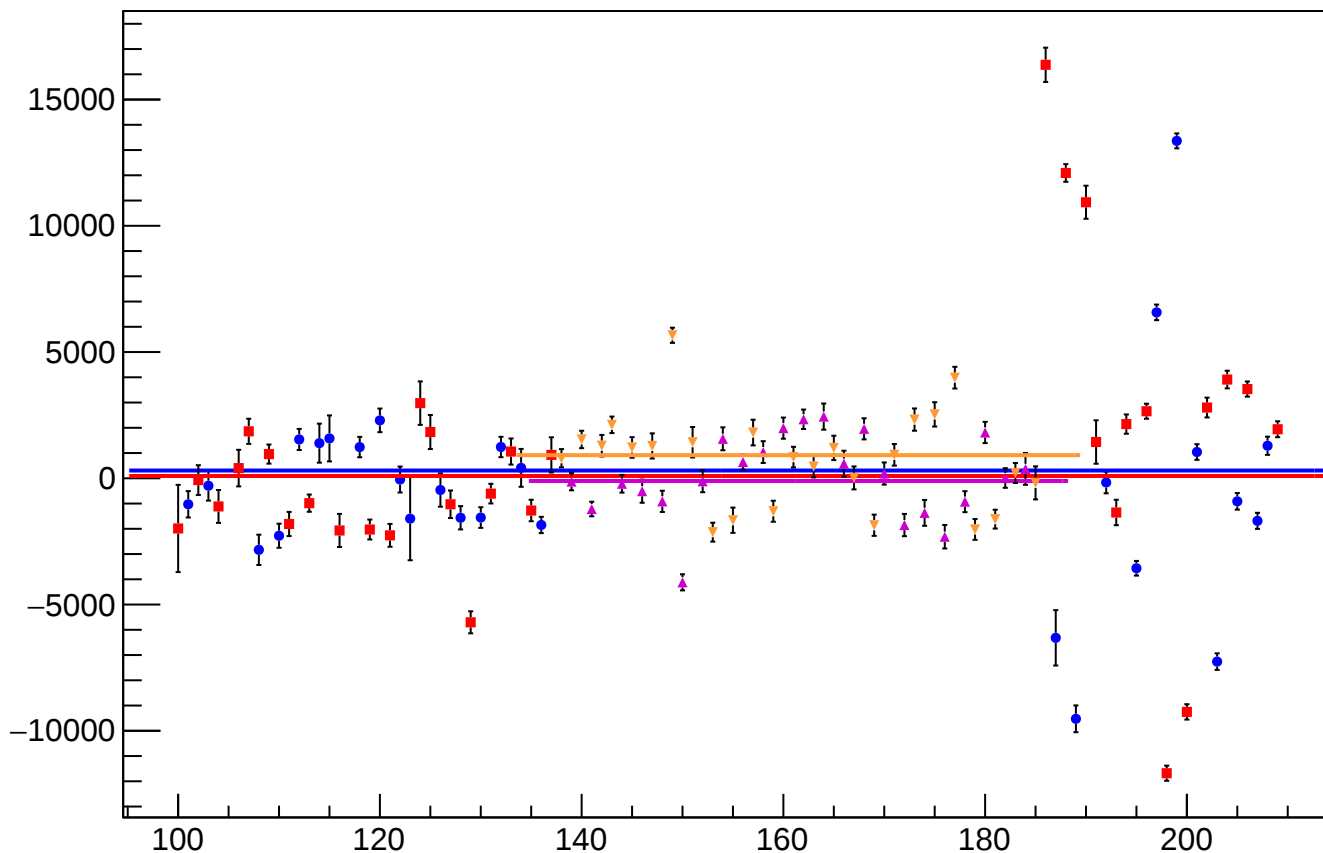
Right: 216.116 $\pm$ 0.029 χ^2 /NDF: 2973905.9/59

In: 215.489 $\pm$ 0.028 χ^2 /NDF: 2177820.3/50

Out: 222.131 $\pm$ 0.028 χ^2 /NDF: 2698703.5/56

All: 218.827 $\pm$ 0.020 χ^2 /NDF: 4905175.7/107

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: 91.402+/-76.944 χ^2/NDF : 5284.7/31

Left In: -106.116+/-84.393 χ^2/NDF : 390.3/22

Left: 410.985+/-59.320 χ^2/NDF : 1082.8/47

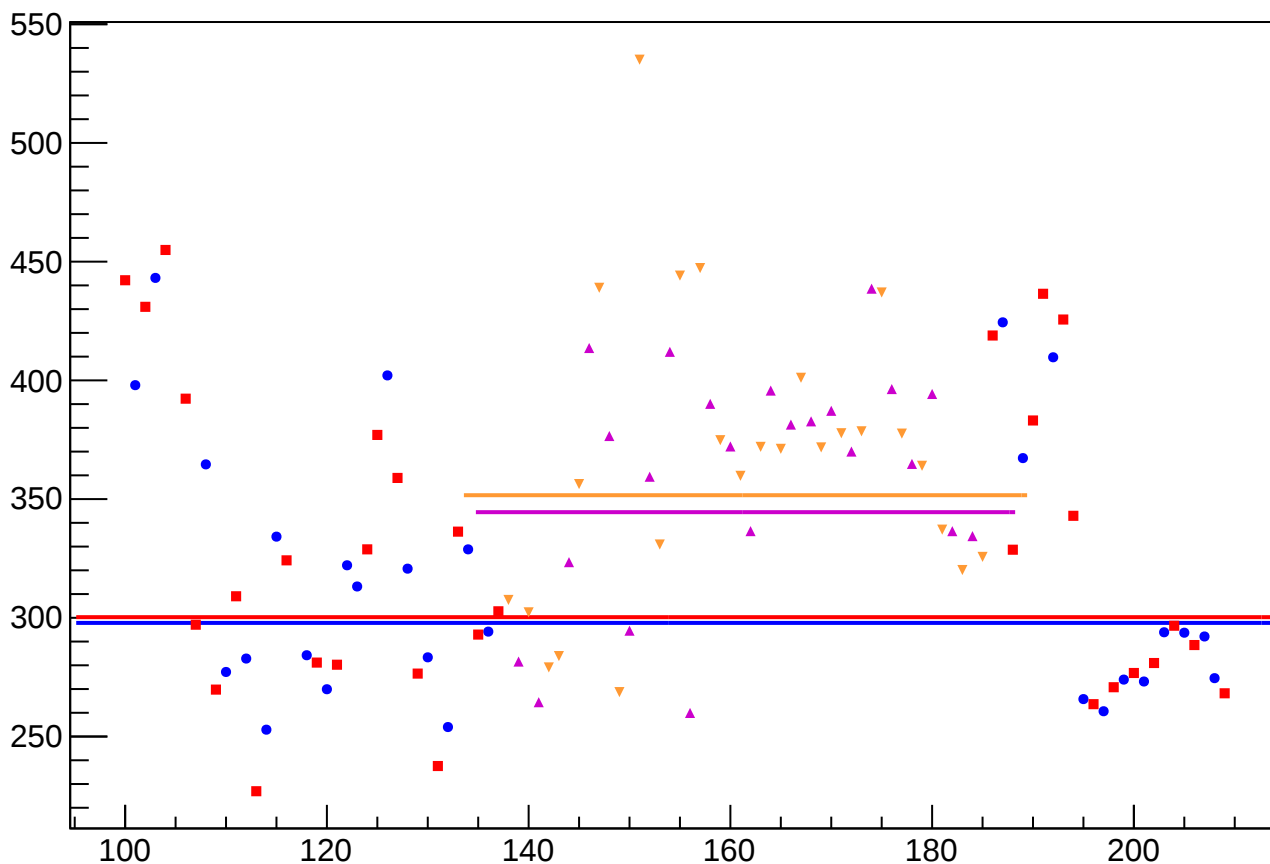
Right: 195.924+/-55.331 χ^2/NDF : 8993.6/59

In: 112.895+/-57.916 χ^2/NDF : 4108.1/50

Out: 470.545+/-56.552 χ^2/NDF : 5955.8/56

All: 295.981+/-40.462 χ^2/NDF : 10083.5/107

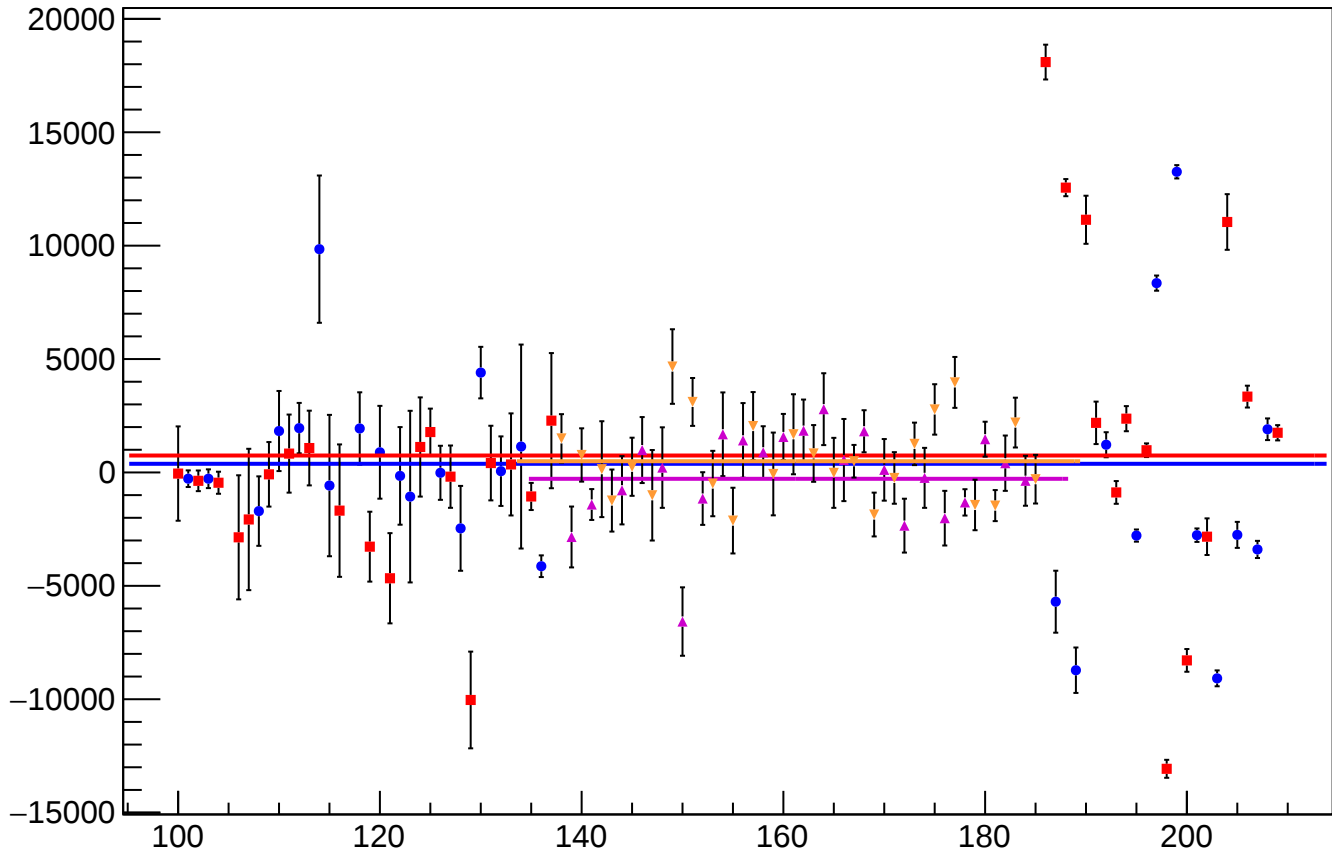
asym_bpm0l02WS_rms vs Slug, Sign Corrected



Right In: 297.857 $\pm$ 0.056 χ^2 /NDF: 618722.2/27
 Left Out: 351.633 $\pm$ 0.059 χ^2 /NDF: 907849.3/24
 Right Out: 300.270 $\pm$ 0.054 χ^2 /NDF: 889269.0/31
 Left In: 344.491 $\pm$ 0.060 χ^2 /NDF: 768885.4/22

Left: 348.104 $\pm$ 0.042 χ^2 /NDF: 1683981.7/47
 Right: 299.105 $\pm$ 0.039 χ^2 /NDF: 1508940.9/59
 In: 319.819 $\pm$ 0.041 χ^2 /NDF: 1710690.0/50
 Out: 323.887 $\pm$ 0.040 χ^2 /NDF: 2206911.6/56
 All: 321.902 $\pm$ 0.029 χ^2 /NDF: 3922652.3/107

asym_bpm0l03WS_mean vs Slug, Sign Corrected



Right In: 381.162 $\pm$ 102.253

χ^2 /NDF: 3833.6/27

Left Out: 495.014 $\pm$ 231.058

χ^2 /NDF: 56.2/24

Right Out: 746.417 $\pm$ 118.249

χ^2 /NDF: 3338.7/31

Left In: -280.692 $\pm$ 232.048

χ^2 /NDF: 57.2/22

Left: 108.818 $\pm$ 163.732

χ^2 /NDF: 119.1/47

Right: 537.431 $\pm$ 77.346

χ^2 /NDF: 7177.7/59

In: 273.543 $\pm$ 93.571

χ^2 /NDF: 3897.6/50

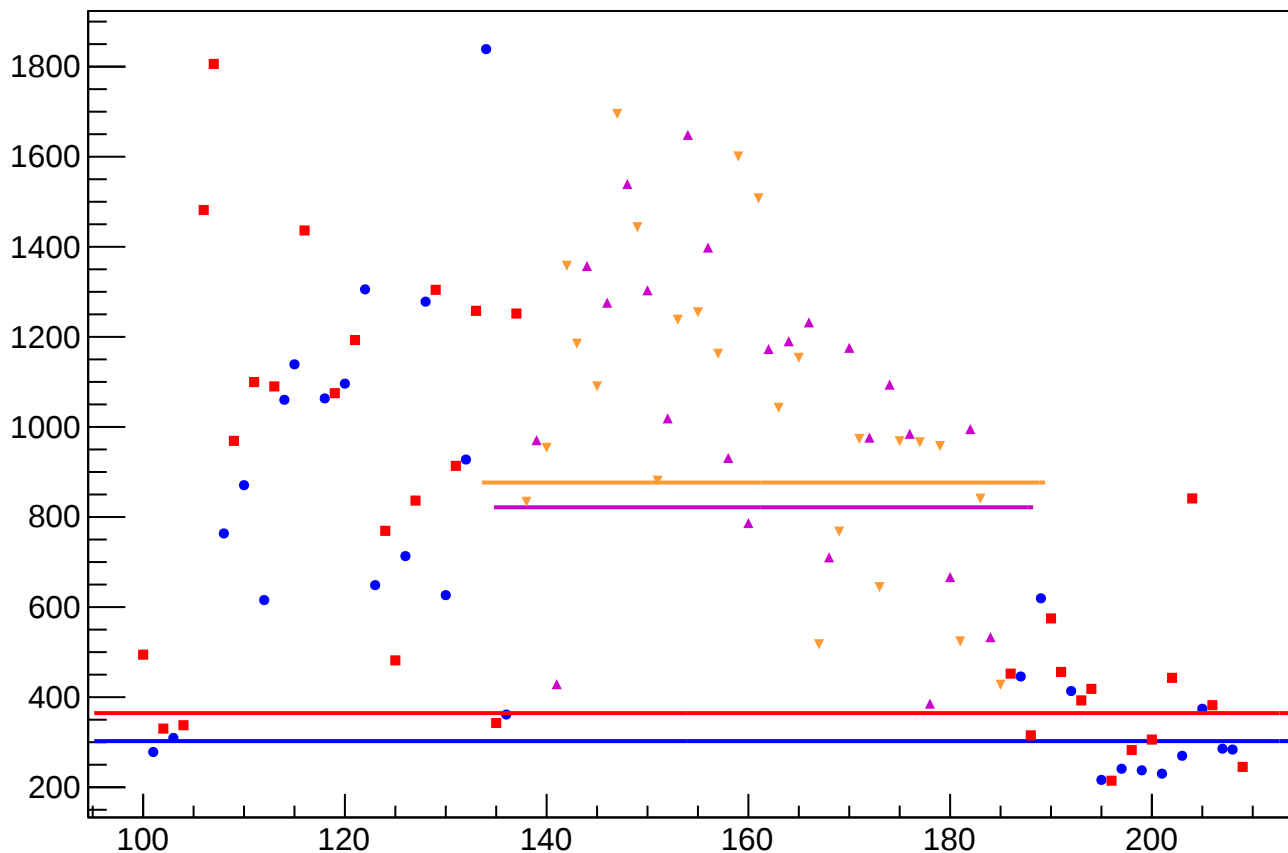
Out: 694.238 $\pm$ 105.265

χ^2 /NDF: 3395.9/56

All: 459.235 $\pm$ 69.935

χ^2 /NDF: 7302.4/107

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: 364.609+/-0.084 χ^2/NDF : 5744436.3/31

Left In: 821.657+/-0.164 χ^2/NDF : 4443094.2/22

Left: 849.226+/-0.116 χ^2/NDF : 7934012.4/47

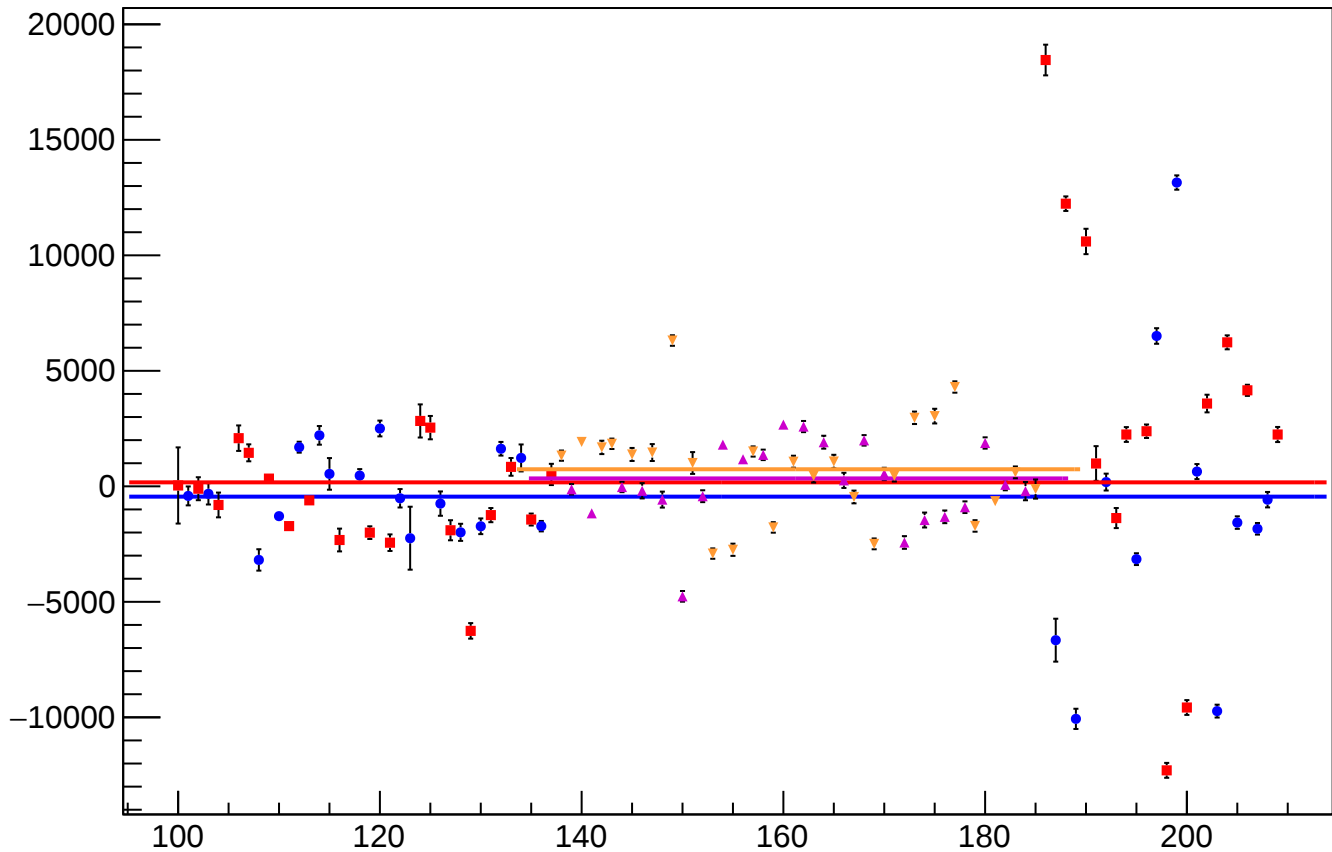
Right: 329.035+/-0.055 χ^2/NDF : 10467003.5/59

In: 386.861+/-0.066 χ^2/NDF : 17234541.4/50

Out: 470.864+/-0.074 χ^2/NDF : 16959797.7/56

All: 423.940+/-0.049 χ^2/NDF : 34905817.5/10

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: 171.796 ± 59.231 $\chi^2/\text{NDF}: 6666.6/31$

Left In: 342.465 ± 50.044 $\chi^2/\text{NDF}: 1254.9/22$

Left: 534.403 ± 35.941 $\chi^2/\text{NDF}: 3220.5/47$

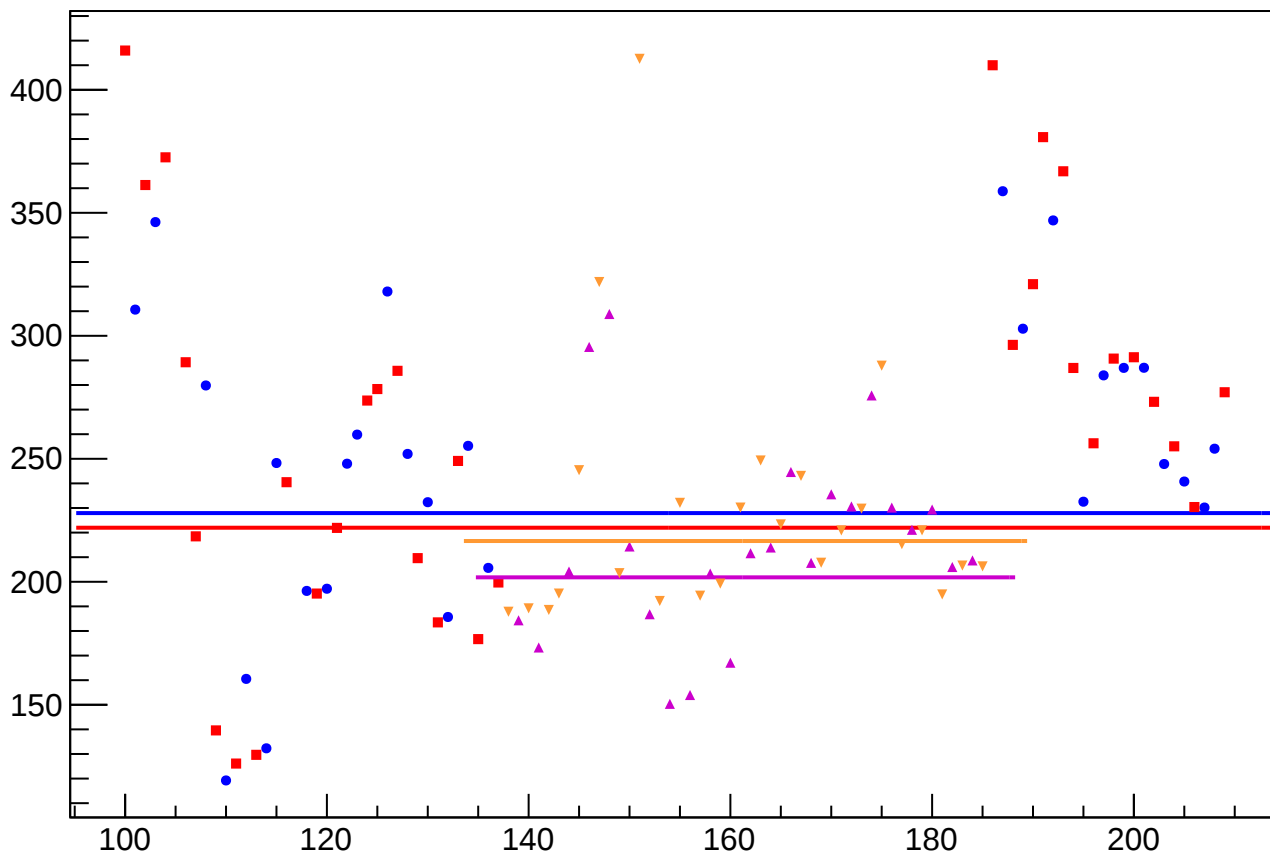
Right: -120.688 ± 42.996 $\chi^2/\text{NDF}: 11263.4/59$

In: 34.327 ± 39.068 $\chi^2/\text{NDF}: 5897.3/50$

Out: 493.916 ± 38.928 $\chi^2/\text{NDF}: 8653.9/56$

All: 264.946 ± 27.575 $\chi^2/\text{NDF}: 14620.6/107$

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: 221.981 ± 0.042 χ^2/NDF : 2894704.6/31

Left In: 201.805 ± 0.035 χ^2/NDF : 1087243.4/22

Left: 208.957 ± 0.025 χ^2/NDF : 2057801.5/47

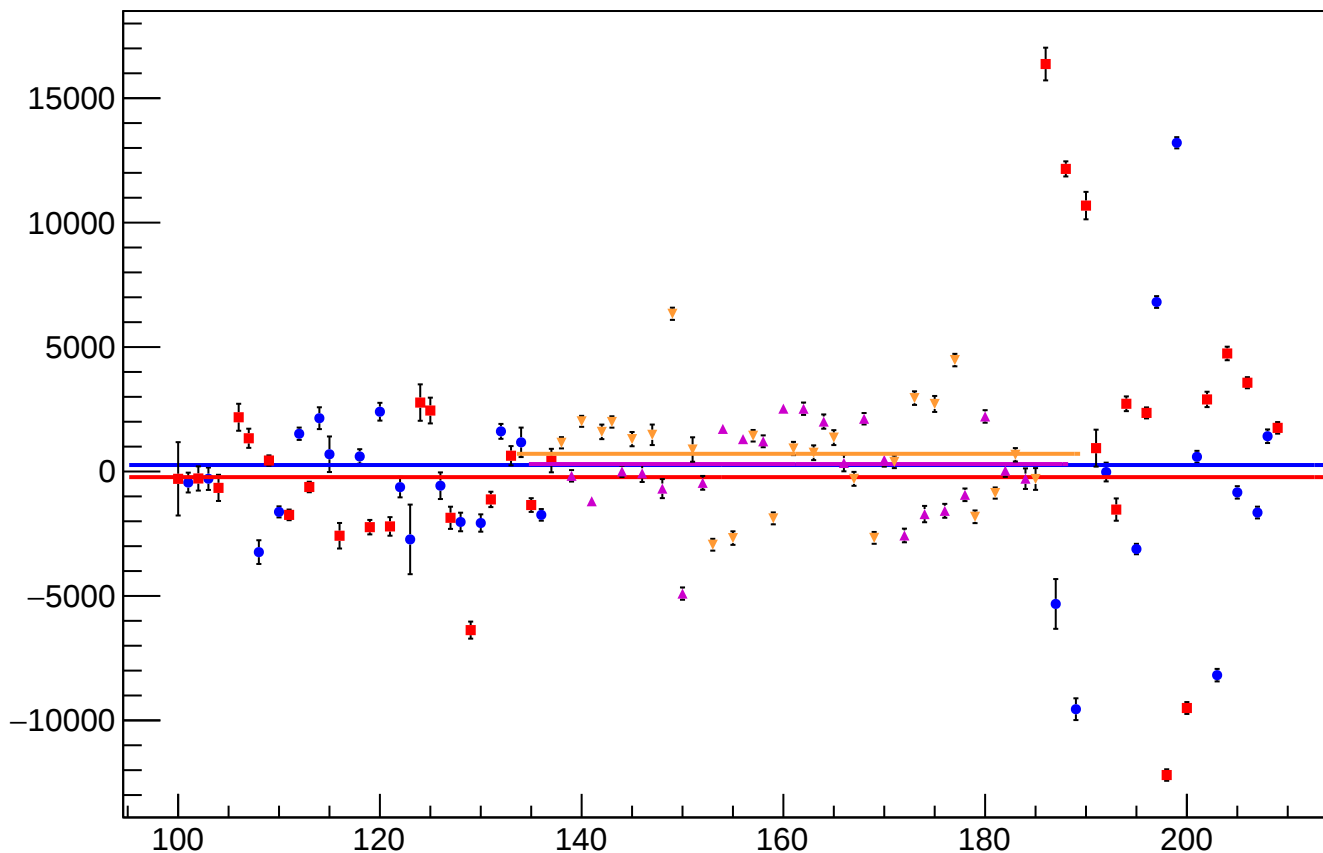
Right: 224.795 ± 0.030 χ^2/NDF : 4692143.8/59

In: 212.009 ± 0.028 χ^2/NDF : 3088007.6/50

Out: 218.910 ± 0.028 χ^2/NDF : 3790387.1/56

All: 215.472 ± 0.019 χ^2/NDF : 6909709.0/107

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: -226.011+/-56.204 χ^2/NDF : 8529.6/31

Left In: 300.516+/-51.984 χ^2/NDF :1208.6/22

Left: 500.925+/-37.196 χ^2/NDF : 3074.4/47

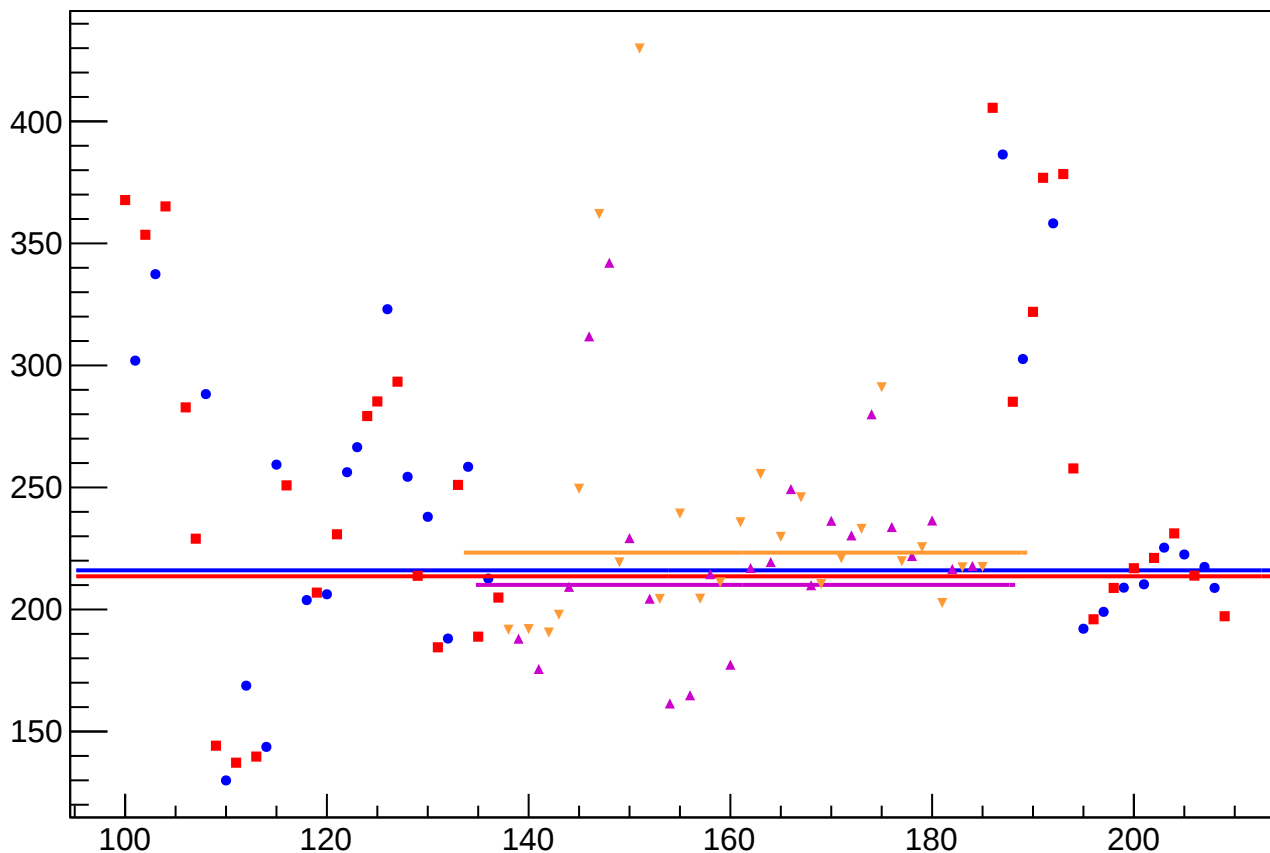
Right: 6.859+/-40.583 χ^2/NDF : 15054.2/59

In: 282.931+/-38.906 χ^2/NDF :7697.6/50

Out: 267.899+/-38.654 χ^2/NDF :10511.5/56

All: 275.366+/-27.421 χ^2/NDF : 18209.2/107

asym_bpm0l05WS_rms vs Slug, Sign Corrected



Right In: 216.039 $\pm$ 0.041 χ^2/NDF : 1346894.4/27

Left Out: 223.296 $\pm$ 0.038 χ^2/NDF : 922768.4/24

Right Out: 213.596 $\pm$ 0.040 χ^2/NDF : 2104077.3/31

Left In: 210.080 $\pm$ 0.037 χ^2/NDF : 1015274.5/22

Left: 216.530 $\pm$ 0.026 χ^2/NDF : 2001132.1/47

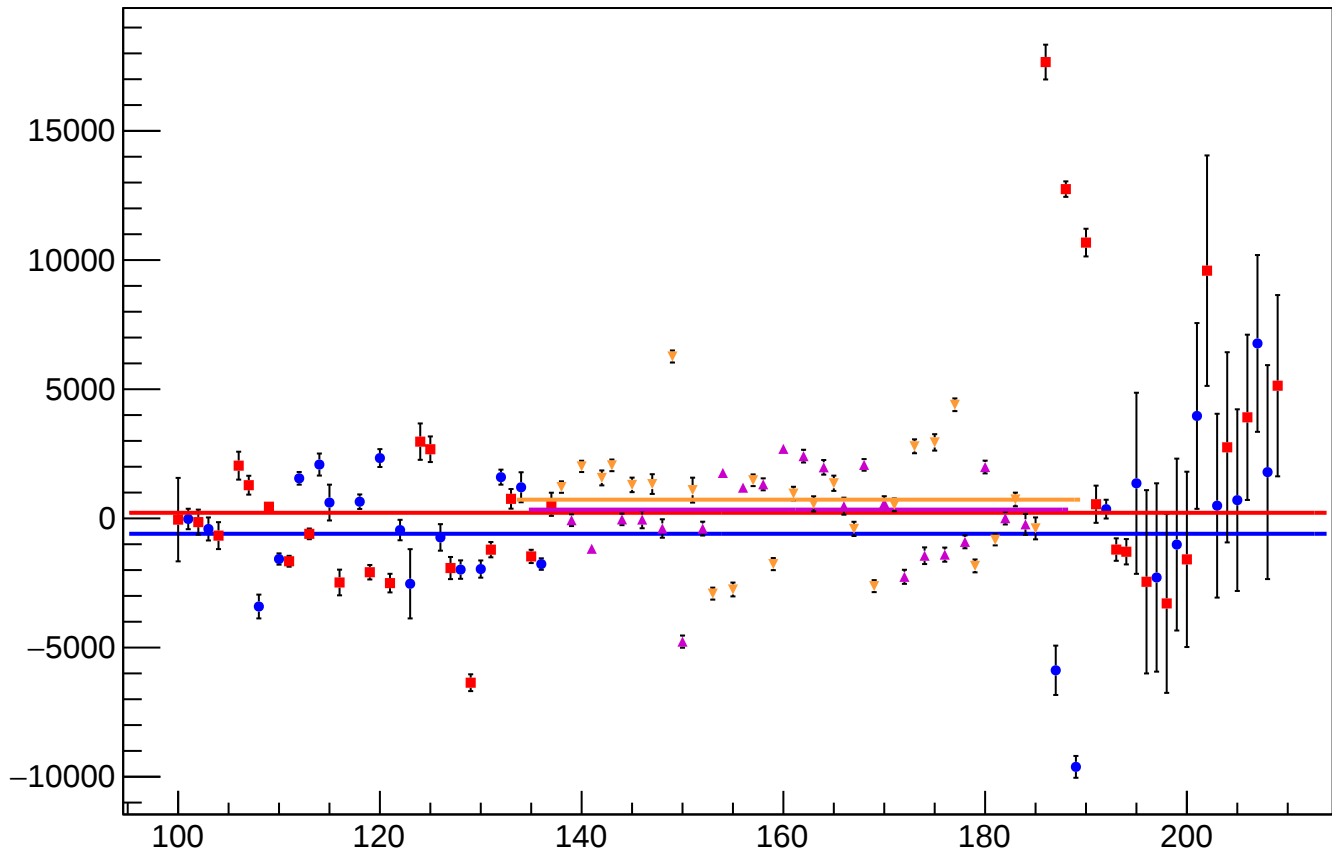
Right: 214.765 $\pm$ 0.029 χ^2/NDF : 3452781.2/59

In: 212.701 $\pm$ 0.028 χ^2/NDF : 2373731.2/50

Out: 218.708 $\pm$ 0.027 χ^2/NDF : 3058244.2/56

All: 215.724 $\pm$ 0.019 χ^2/NDF : 5455967.7/107

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: 217.197+/-69.965 χ^2/NDF : 3641.7/31

Left In: 340.502+/-50.802 χ^2/NDF :1201.8/22

Left: 528.110+/-36.393 χ^2/NDF : 3142.6/47

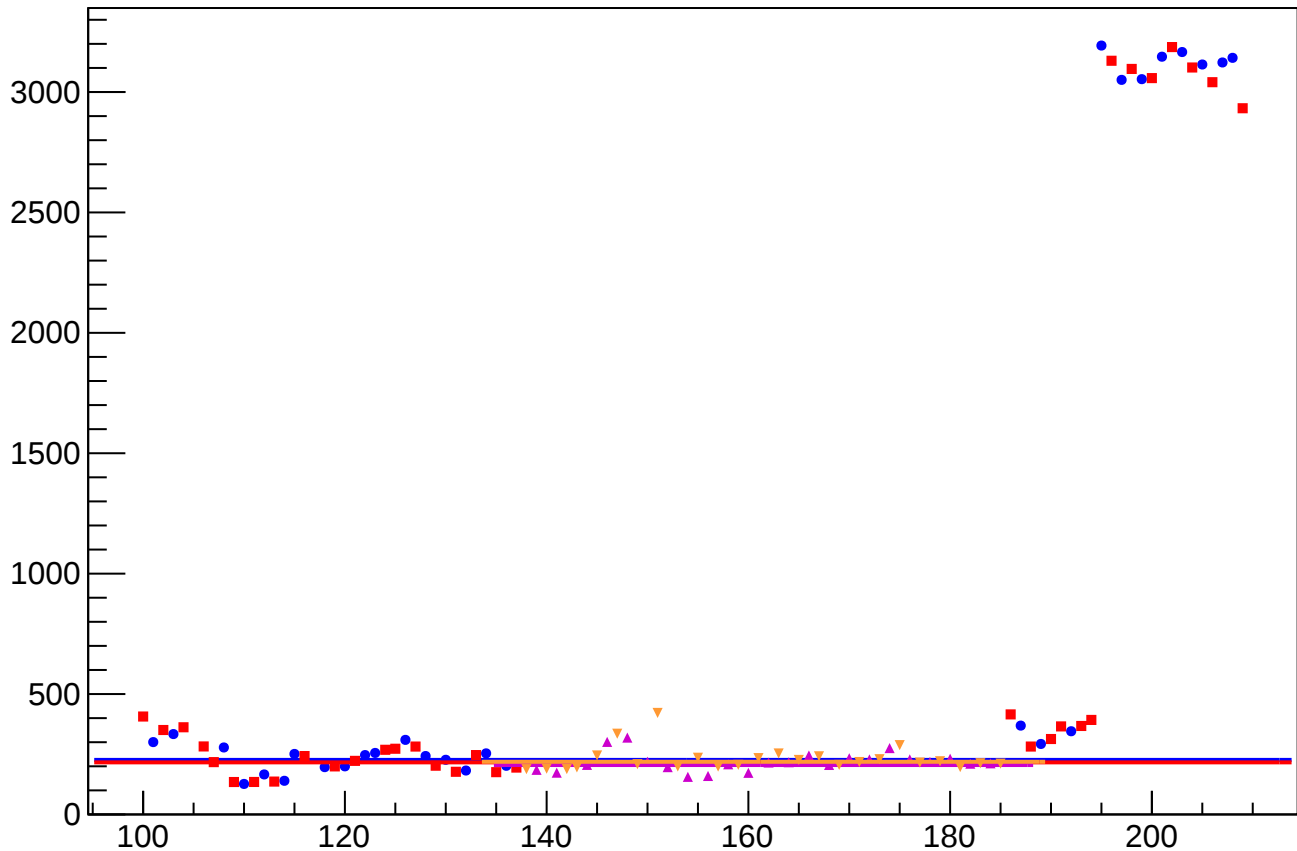
Right: -139.694+/-52.390 χ^2/NDF : 4599.9/59

In: 66.968+/-42.737 χ^2/NDF :2200.0/50

Out: 544.156+/-41.817 χ^2/NDF :5588.4/56

All: 310.751+/-29.889 χ^2/NDF : 7852.0/107

asym_bpm0l06WS_rms vs Slug, Sign Corrected



Right In: 226.566+/-0.056 χ^2/NDF : 11852774.2/27

Left Out: 218.768+/-0.037 χ^2/NDF : 896914.5/24

Right Out: 216.308+/-0.049 χ^2/NDF : 11452095.7/31

Left In: 205.249+/-0.036 χ^2/NDF : 997168.8/22

Left: 211.831+/-0.026 χ^2/NDF : 1963037.5/47

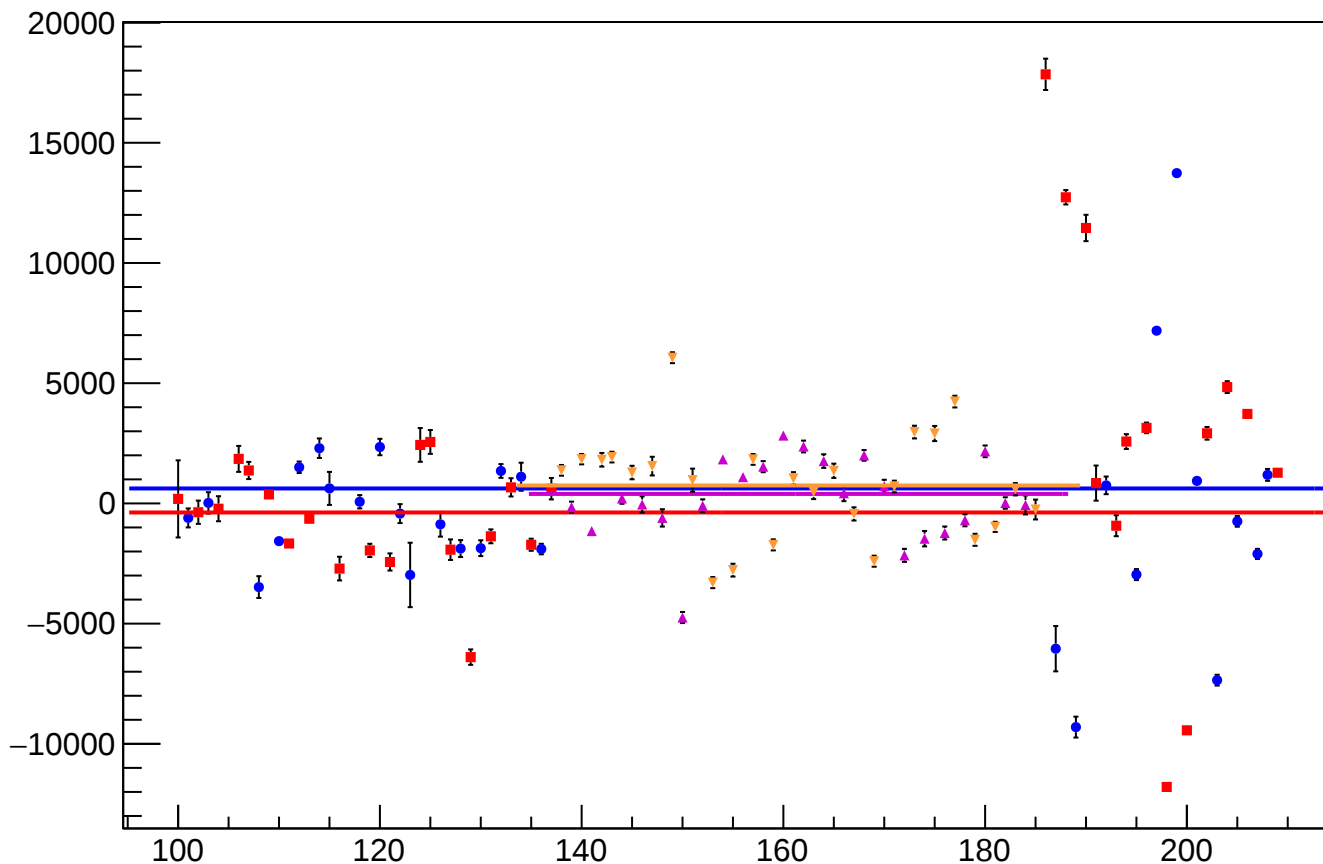
Right: 220.814+/-0.037 χ^2/NDF : 23323758.8/59

In: 211.481+/-0.030 χ^2/NDF : 12952884.5/50

Out: 217.889+/-0.030 χ^2/NDF : 12350600.6/56

All: 214.755+/-0.021 χ^2/NDF : 25326462.3/100

asym_bpm0l07WS_mean vs Slug, Sign Corrected



Right In: 622.048 $\pm$ 54.615 χ^2 /NDF: 8452.9/27

Left Out: 746.405 $\pm$ 51.592 χ^2 /NDF:1942.1/24

Right Out: -376.572 $\pm$ 52.359 χ^2 /NDF: 10368.9/31

Left In: 394.379 $\pm$ 50.311 χ^2 /NDF:1236.4/22

Left: 565.969 $\pm$ 36.020 χ^2 /NDF: 3202.4/47

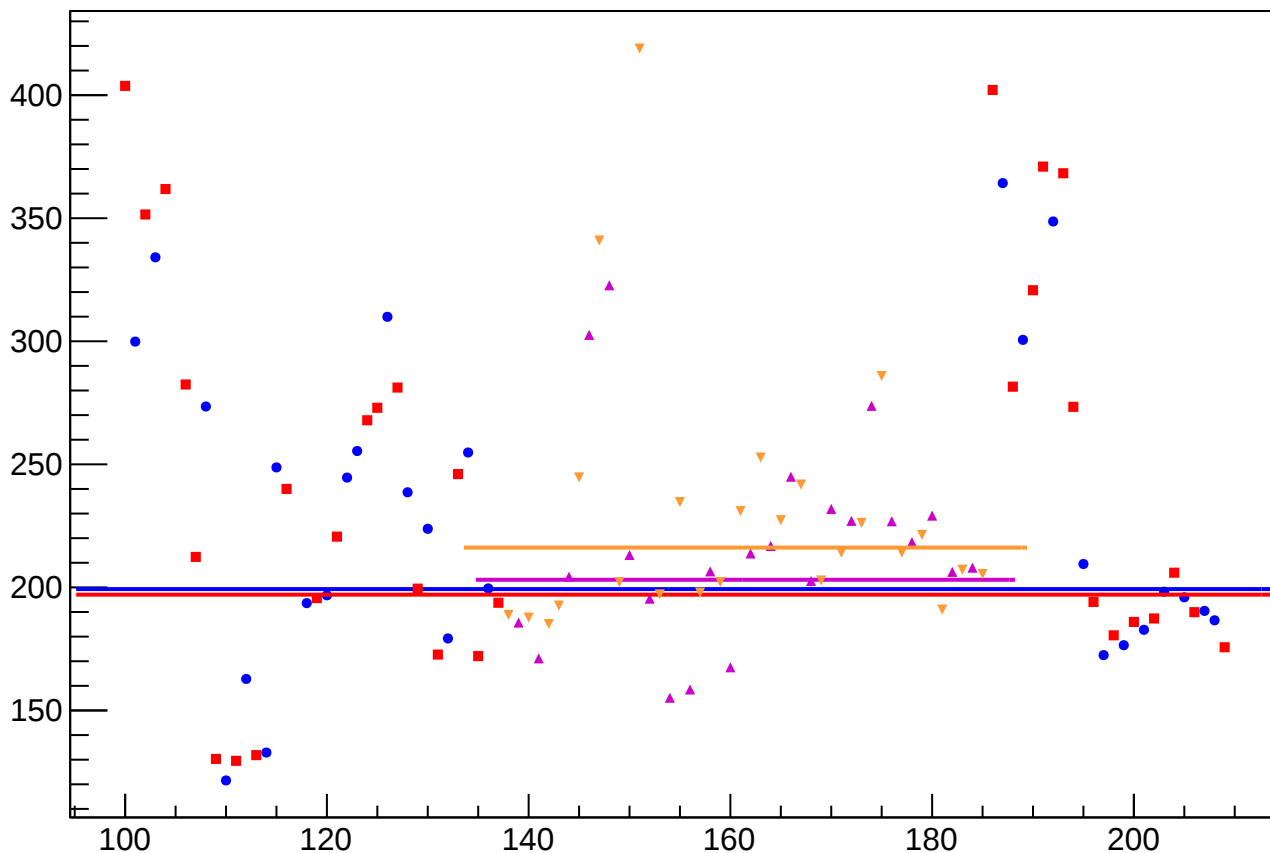
Right: 101.690 $\pm$ 37.796 χ^2 /NDF: 18996.0/59

In: 498.891 $\pm$ 37.004 χ^2 /NDF:9698.7/50

Out: 193.209 $\pm$ 36.749 χ^2 /NDF:12544.4/56

All: 344.996 $\pm$ 26.075 χ^2 /NDF: 22277.5/107

asym_bpm0l07WS_rms vs Slug, Sign Corrected



Right In: 199.310 +/- 0.039 χ^2/NDF : 1529523.9/27

Left Out: 216.178 +/- 0.036 χ^2/NDF : 946050.8/24

Right Out: 197.059 +/- 0.037 χ^2/NDF : 2464280.6/31

Left In: 203.101 +/- 0.036 χ^2/NDF : 1038013.0/22

Left: 209.475 +/- 0.025 χ^2/NDF : 2049926.5/47

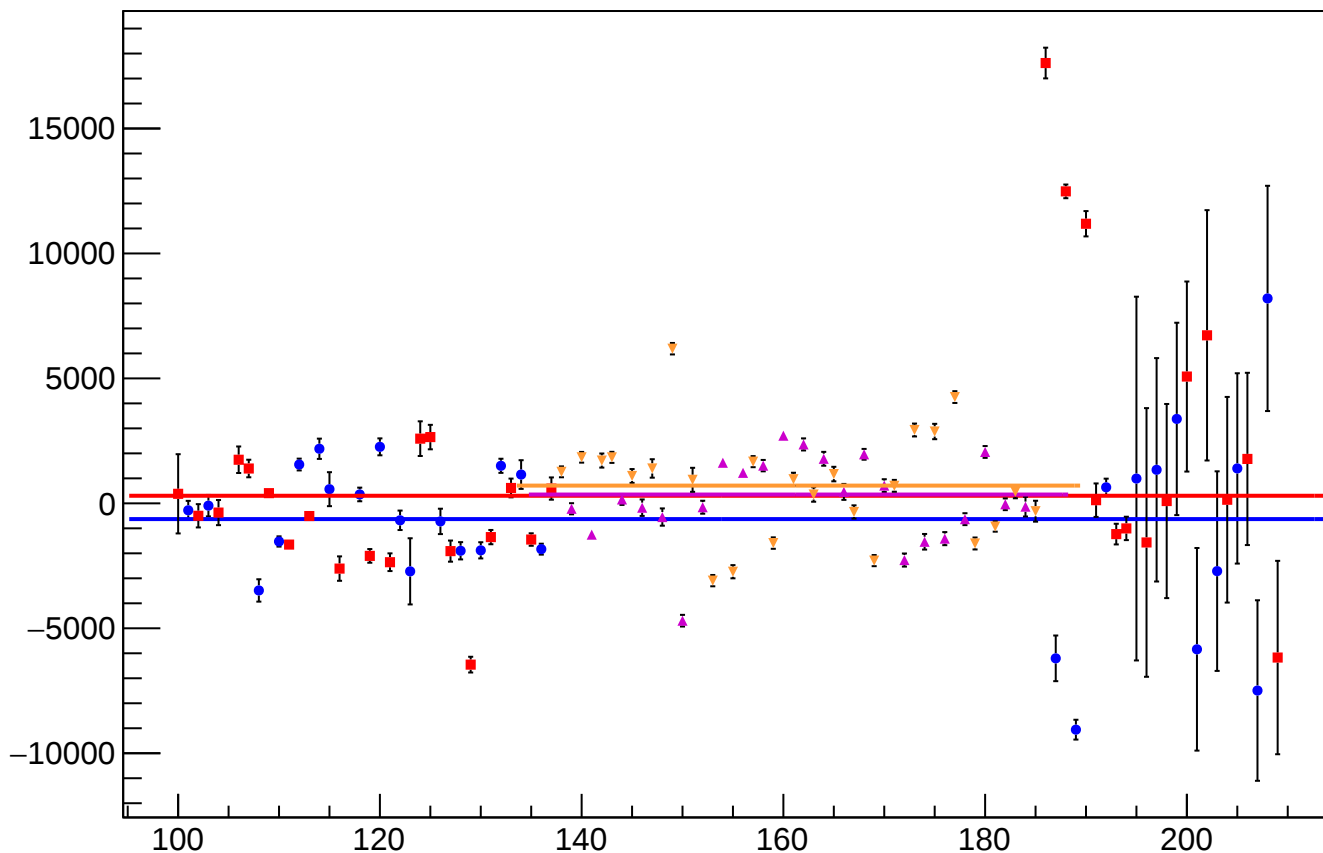
Right: 198.137 +/- 0.027 χ^2/NDF : 3995575.1/59

In: 201.361 +/- 0.026 χ^2/NDF : 2572749.6/50

Out: 206.759 +/- 0.026 χ^2/NDF : 3545637.0/56

All: 204.079 +/- 0.018 χ^2/NDF : 6139821.1/107

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: 303.616 ± 67.109 χ^2/NDF : 4167.5/31

Left In: 352.432 ± 49.316 χ^2/NDF : 1233.1/22

Left: 526.207 ± 35.368 χ^2/NDF : 3190.9/47

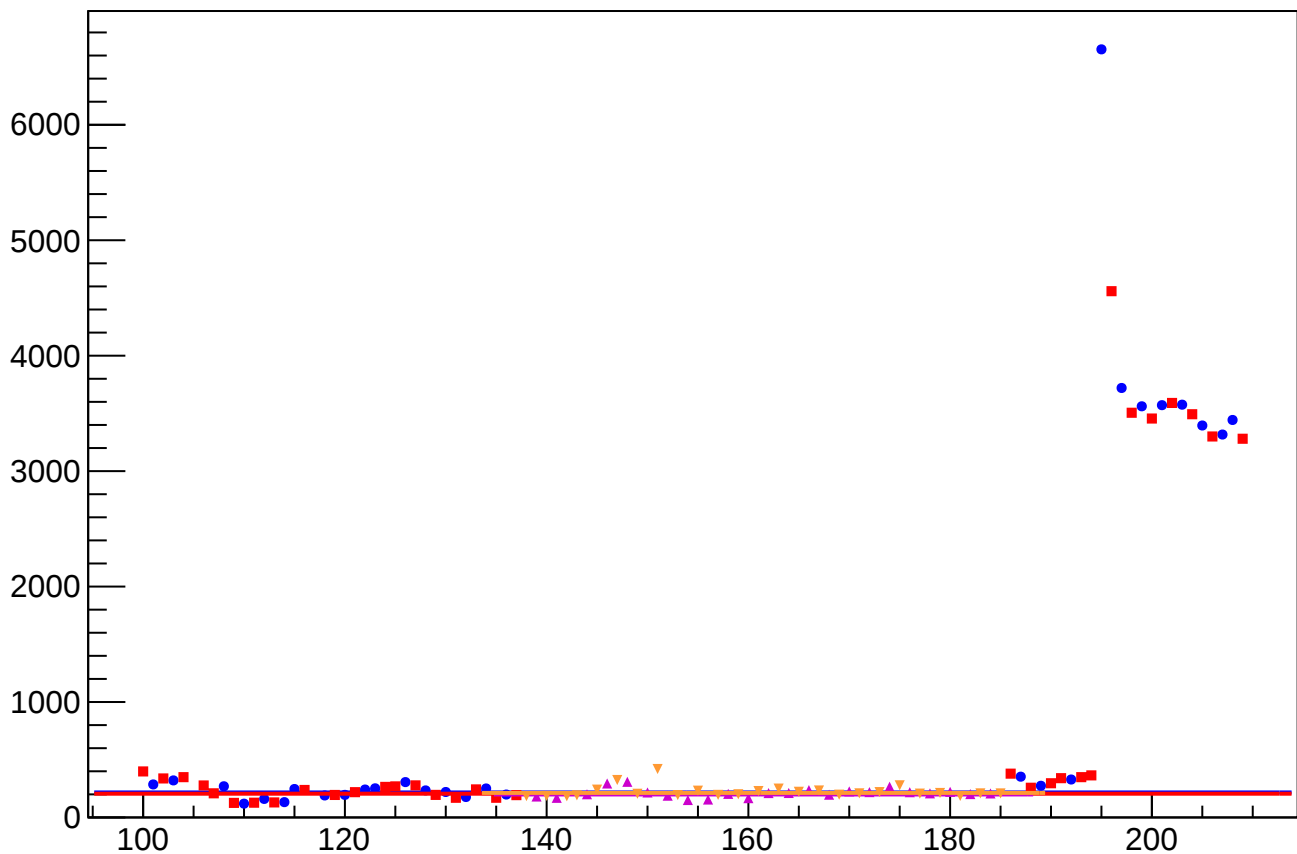
Right: -102.847 ± 50.425 χ^2/NDF : 5177.4/59

In: 63.609 ± 41.437 χ^2/NDF : 2275.4/50

Out: 562.299 ± 40.479 χ^2/NDF : 6123.1/56

All: 318.784 ± 28.956 χ^2/NDF : 8472.6/107

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: 205.751 $\pm$ 0.047 χ^2 /NDF: 11706632.9/31

Left In: 199.142 $\pm$ 0.035 χ^2 /NDF: 985932.4/22

Left: 205.736 $\pm$ 0.025 χ^2 /NDF: 1975772.3/47

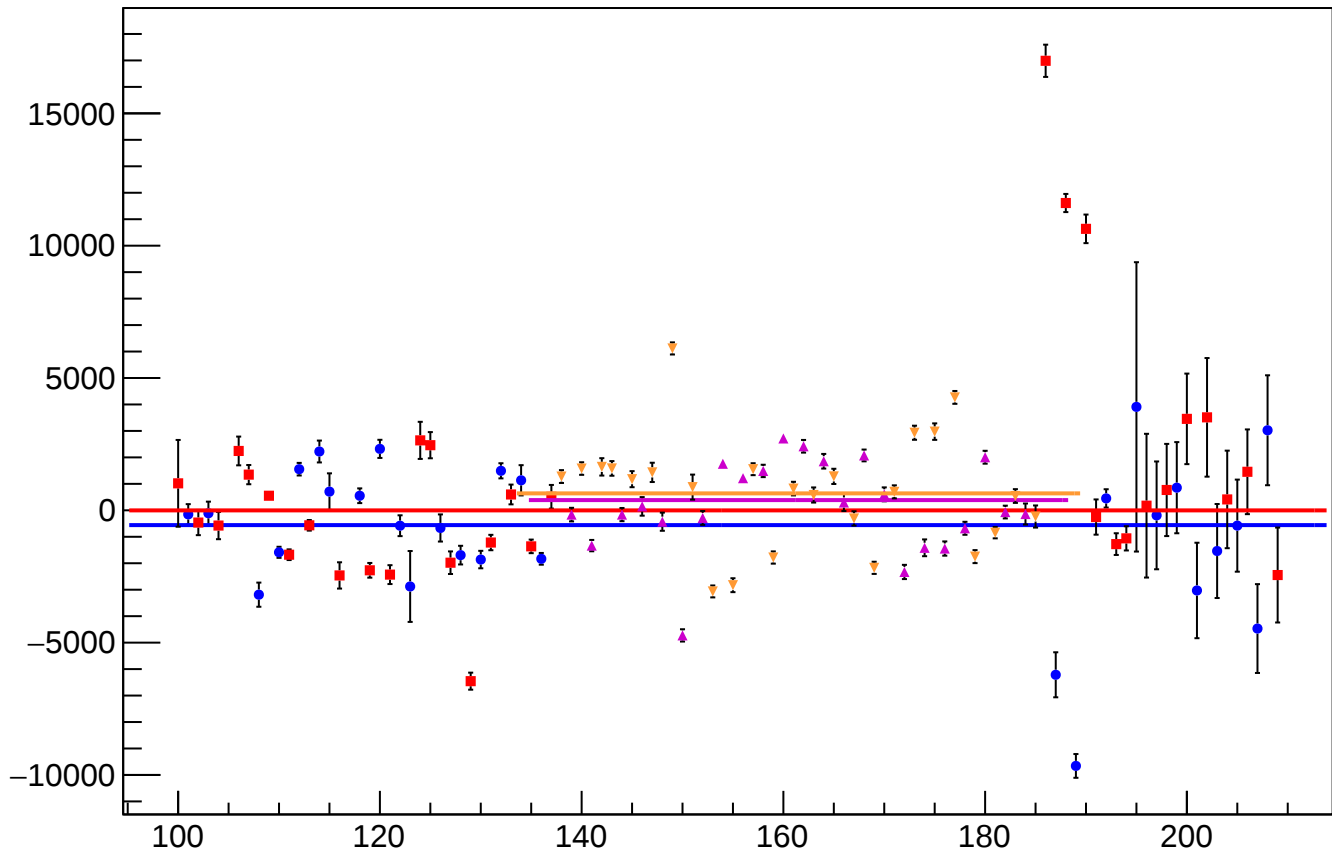
Right: 210.511 $\pm$ 0.036 χ^2 /NDF: 24033971.5/59

In: 204.300 $\pm$ 0.029 χ^2 /NDF: 13364560.5/50

Out: 210.183 $\pm$ 0.029 χ^2 /NDF: 12636574.7/56

All: 207.310 $\pm$ 0.020 χ^2 /NDF: 26021767.8/10

asym_bpm0l09WS_mean vs Slug, Sign Corrected



Right In: -558.936 $\pm$ 77.371 χ^2 /NDF: 870.9/27

Left Out: 639.995 $\pm$ 52.708 χ^2 /NDF:1859.2/24

Right Out: -2.702 $\pm$ 68.779 χ^2 /NDF: 3105.4/31

Left In: 386.248 $\pm$ 50.994 χ^2 /NDF:1238.0/22

Left: 508.926 $\pm$ 36.649 χ^2 /NDF: 3109.2/47

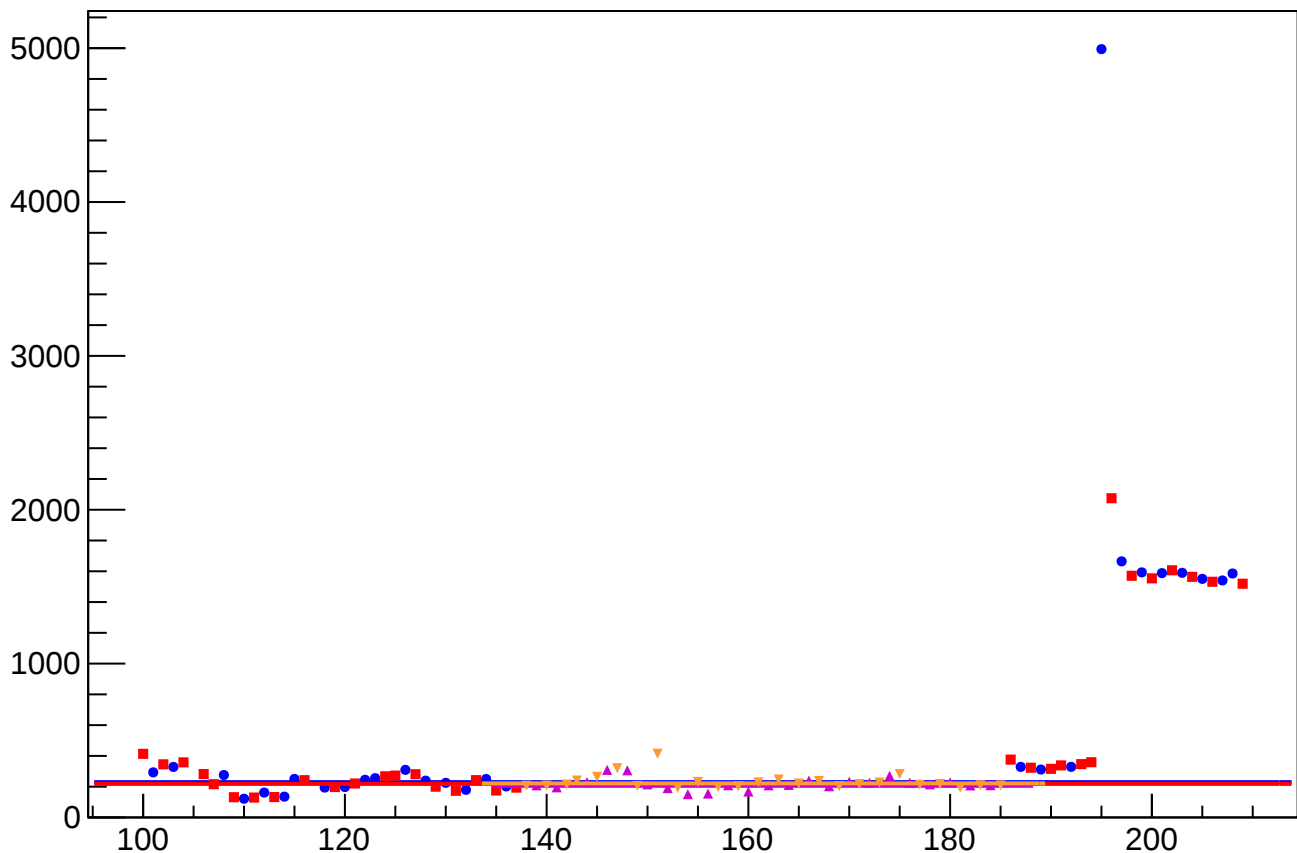
Right: -248.234 $\pm$ 51.405 χ^2 /NDF: 4005.2/59

In: 100.009 $\pm$ 42.578 χ^2 /NDF:2213.0/50

Out: 402.203 $\pm$ 41.836 χ^2 /NDF:5019.6/56

All: 253.760 $\pm$ 29.841 χ^2 /NDF: 7258.3/107

asym_bpm0l09WS_rms vs Slug, Sign Corrected



Right In: 229.559 $\pm$ 0.055 χ^2 /NDF: 10729817.6/27

Left Out: 221.398 $\pm$ 0.037 χ^2 /NDF: 777833.8/24

Right Out: 218.101 $\pm$ 0.049 χ^2 /NDF: 10157427.9/31

Left In: 205.803 $\pm$ 0.036 χ^2 /NDF: 994903.5/22

Left: 213.343 $\pm$ 0.026 χ^2 /NDF: 1863169.5/47

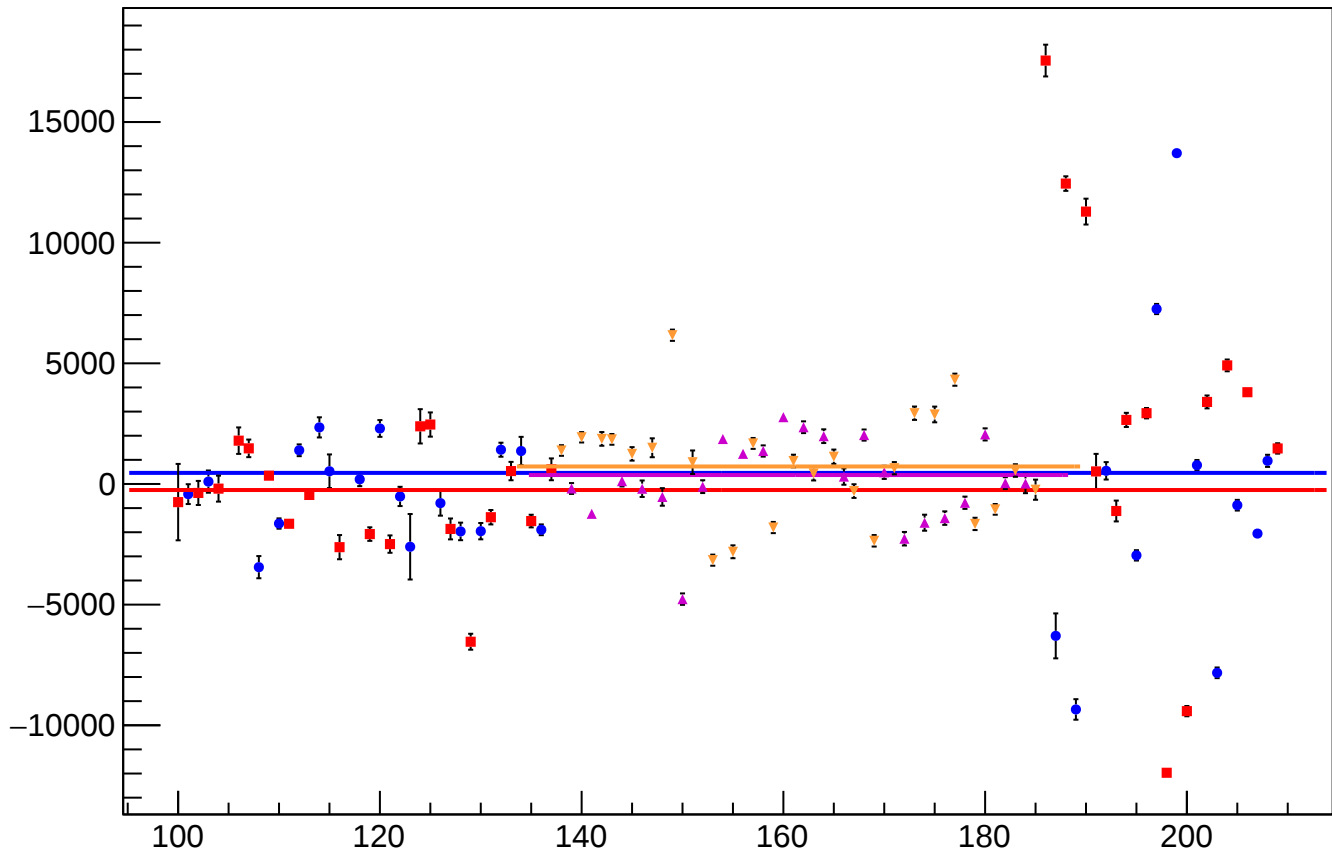
Right: 223.159 $\pm$ 0.036 χ^2 /NDF: 20911749.9/59

In: 212.998 $\pm$ 0.030 χ^2 /NDF: 11856171.3/50

Out: 220.178 $\pm$ 0.030 χ^2 /NDF: 10938157.8/56

All: 216.651 $\pm$ 0.021 χ^2 /NDF: 22823269.2/100

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: -250.517+/-53.175 χ^2/NDF : 10045.6/31

Left In: 370.408+/-50.884 χ^2/NDF :1223.2/22

Left: 542.938+/-36.473 χ^2/NDF : 3129.9/47

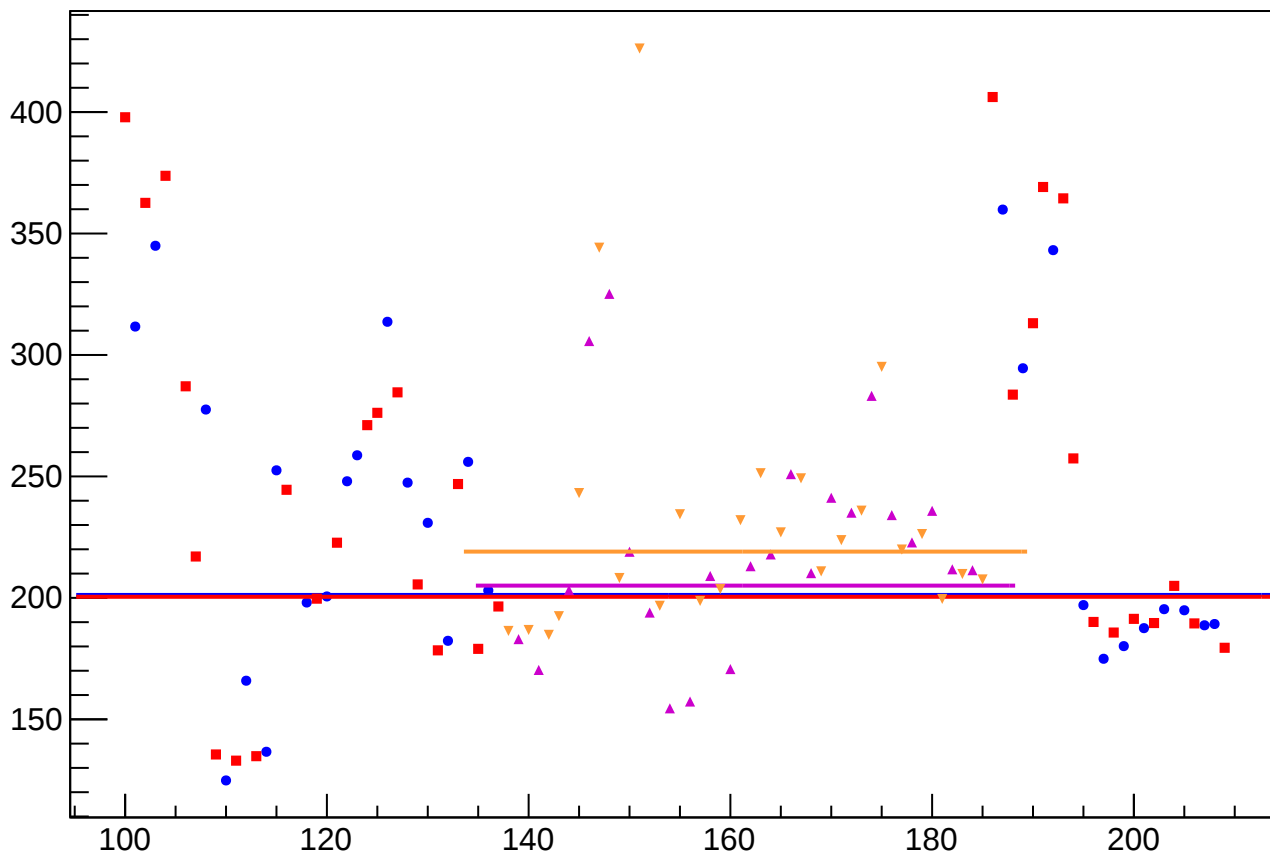
Right: 91.855+/-38.269 χ^2/NDF : 18572.6/59

In: 411.501+/-37.388 χ^2/NDF :9665.6/50

Out: 245.396+/-37.290 χ^2/NDF :12099.9/56

All: 328.230+/-26.403 χ^2/NDF : 21775.4/107

asym_bpm0l10WS_rms vs Slug, Sign Corrected



Right In: 201.208 ± 0.039 $\chi^2/\text{NDF}: 1488308.7/27$

Left Out: 219.049 ± 0.037 $\chi^2/\text{NDF}: 975564.4/24$

Right Out: 200.450 ± 0.038 $\chi^2/\text{NDF}: 2315556.8/31$

Left In: 205.046 ± 0.036 $\chi^2/\text{NDF}: 1144197.1/22$

Left: 211.855 ± 0.026 $\chi^2/\text{NDF}: 2193394.9/47$

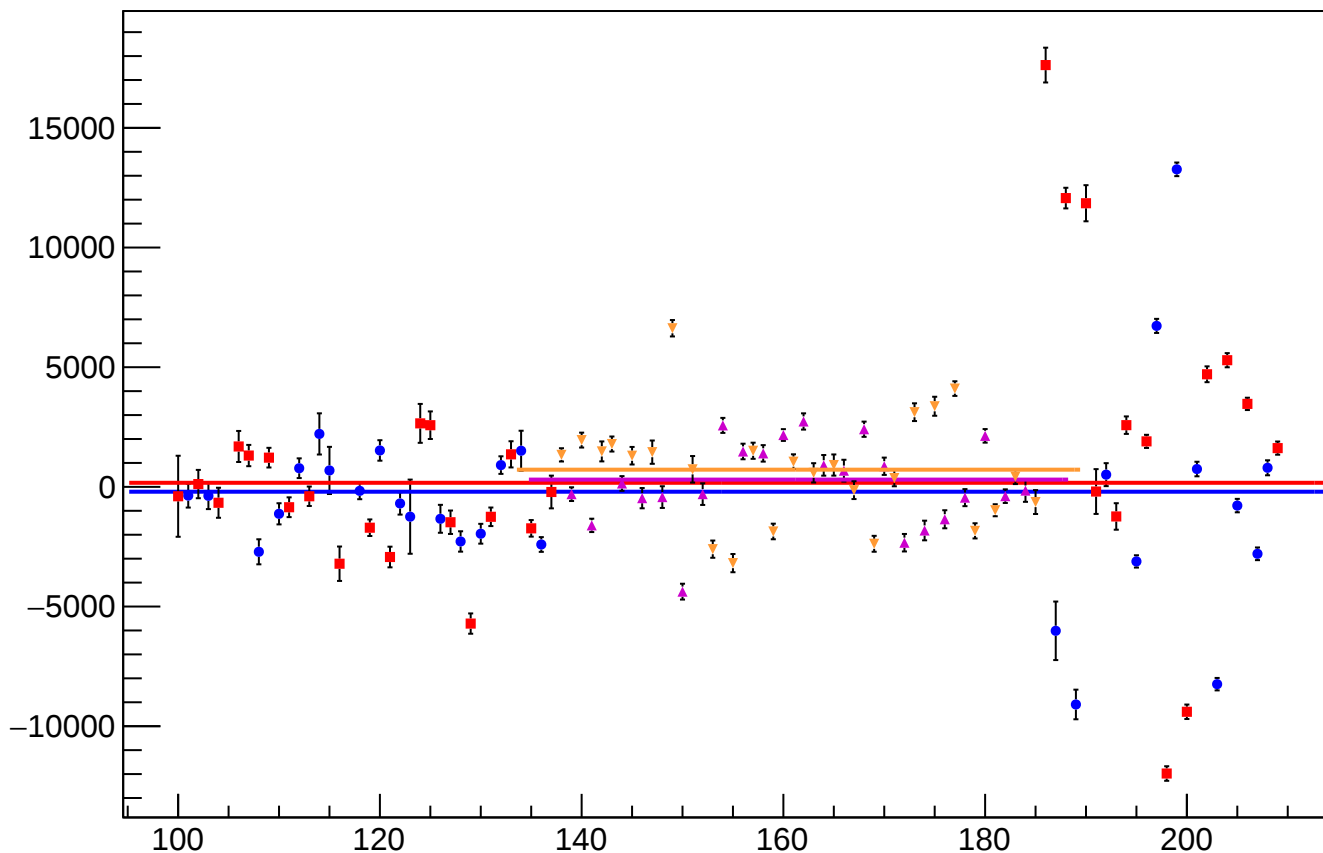
Right: 200.815 ± 0.027 $\chi^2/\text{NDF}: 3804061.6/59$

In: 203.280 ± 0.026 $\chi^2/\text{NDF}: 2637741.7/50$

Out: 209.902 ± 0.026 $\chi^2/\text{NDF}: 3415467.3/56$

All: 206.600 ± 0.019 $\chi^2/\text{NDF}: 6084659.8/107$

asym_bpm0r03WS_mean vs Slug, Sign Corrected



Right In: -202.599+/-73.324 χ^2/NDF : 4399.8/27

Left Out: 718.705+/-69.601 χ^2/NDF :1018.5/24

Right Out: 170.571+/-73.314 χ^2/NDF : 5352.1/31

Left In: 304.161+/-70.958 χ^2/NDF :643.5/22

Left: 515.435+/-49.688 χ^2/NDF : 1679.4/47

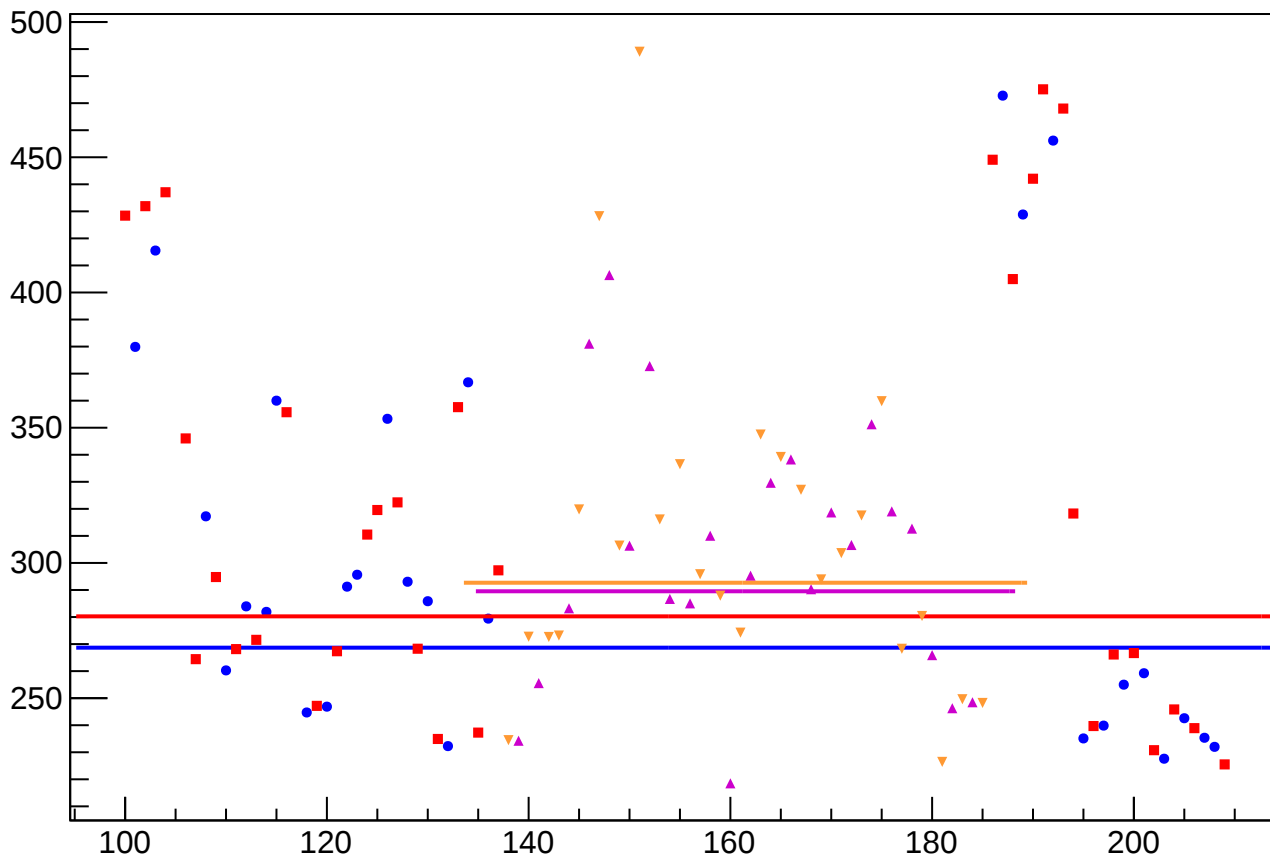
Right: -15.991+/-51.844 χ^2/NDF : 9764.8/59

In: 59.089+/-50.991 χ^2/NDF :5067.9/50

Out: 458.872+/-50.477 χ^2/NDF :6400.0/56

All: 261.005+/-35.873 χ^2/NDF : 11499.0/107

asym_bpm0r03WS_rms vs Slug, Sign Corrected



Right In: 268.672 ± 0.052 $\chi^2/\text{NDF}: 1080317.0/27$

Left Out: 292.686 ± 0.049 $\chi^2/\text{NDF}: 925193.6/24$

Right Out: 280.251 ± 0.052 $\chi^2/\text{NDF}: 1429138.3/31$

Left In: 289.522 ± 0.050 $\chi^2/\text{NDF}: 777901.0/22$

Left: 291.134 ± 0.035 $\chi^2/\text{NDF}: 1705121.5/47$

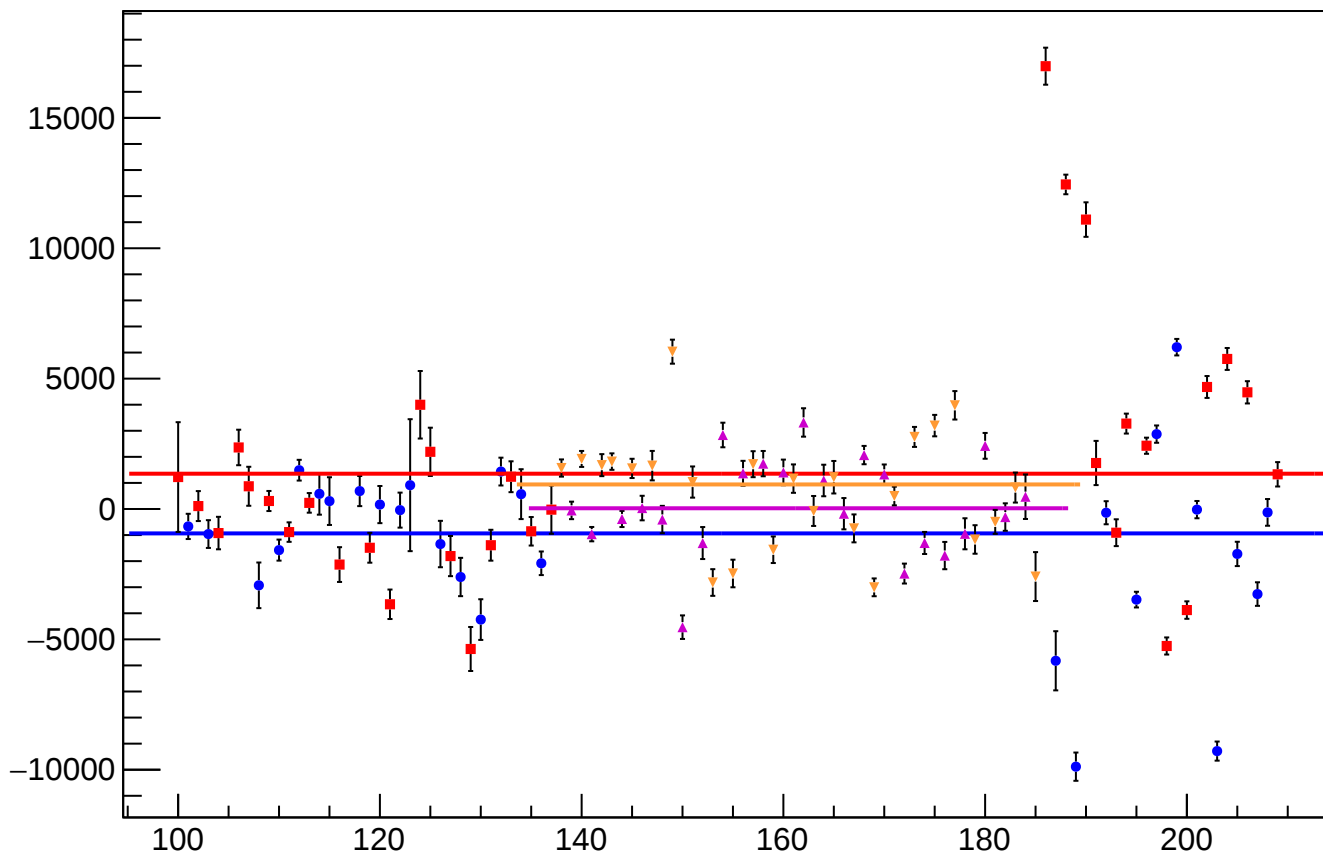
Right: 274.462 ± 0.037 $\chi^2/\text{NDF}: 2534398.5/59$

In: 279.438 ± 0.036 $\chi^2/\text{NDF}: 1941727.6/50$

Out: 286.791 ± 0.036 $\chi^2/\text{NDF}: 2384592.4/56$

All: 283.152 ± 0.025 $\chi^2/\text{NDF}: 4347325.1/107$

asym_bpm0r05WS_mean vs Slug, Sign Corrected



Right In: -936.125+/-93.175 χ^2/NDF : 1680.3/27

Left Out: 941.598+/-89.119 χ^2/NDF : 544.6/24

Right Out: 1353.417+/-88.507 χ^2/NDF : 2833.7/31

Left In: 27.763+/-92.331 χ^2/NDF : 362.5/22

Left: 500.853+/-64.122 χ^2/NDF : 957.8/47

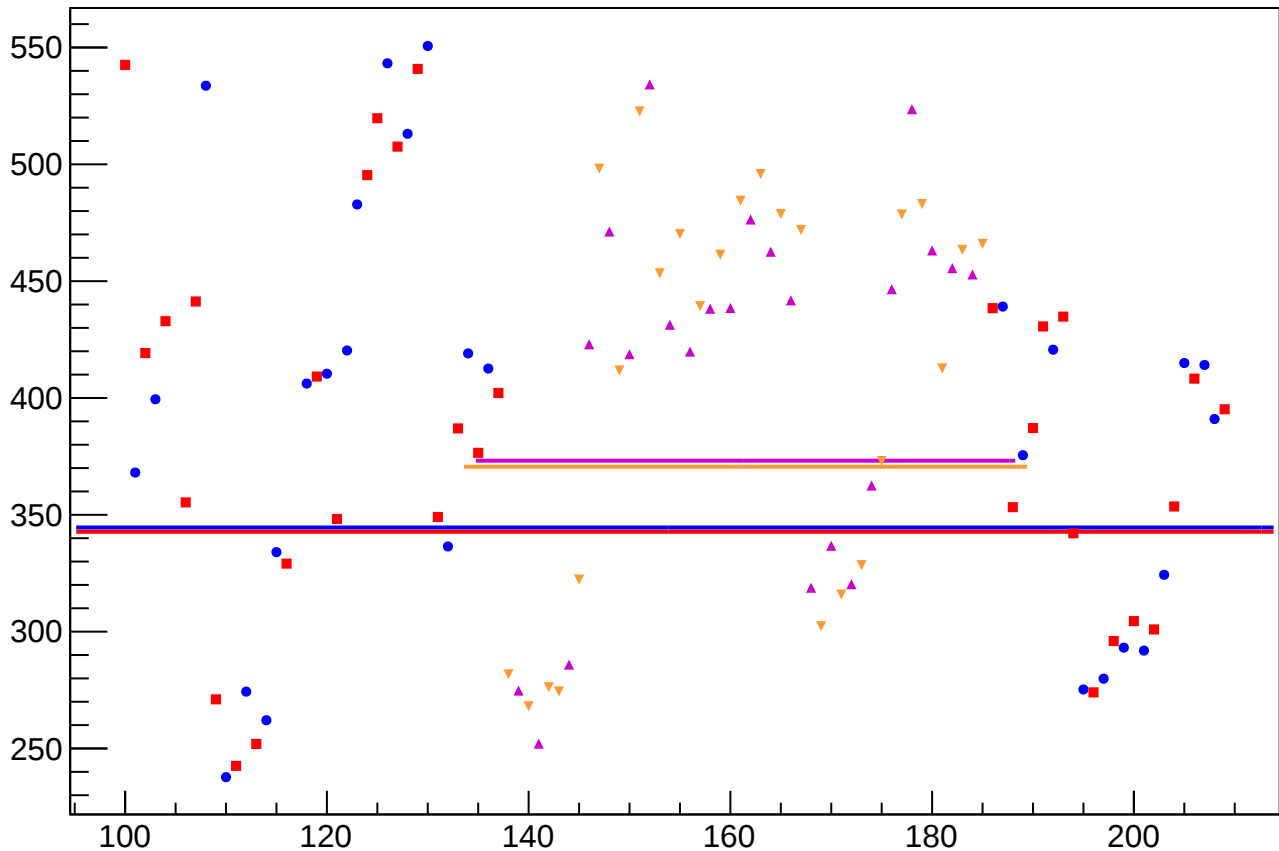
Right: 267.435+/-64.171 χ^2/NDF : 4831.5/59

In: -449.796+/-65.584 χ^2/NDF : 2096.9/50

Out: 1148.927+/-62.799 χ^2/NDF : 3389.0/56

All: 384.232+/-45.358 χ^2/NDF : 5795.9/107

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: 342.752 ± 0.063 $\chi^2/\text{NDF}: 1209734.4/31$

Left In: 373.161 ± 0.065 $\chi^2/\text{NDF}: 1636244.2/22$

Left: 371.824 ± 0.045 $\chi^2/\text{NDF}: 3515172.3/47$

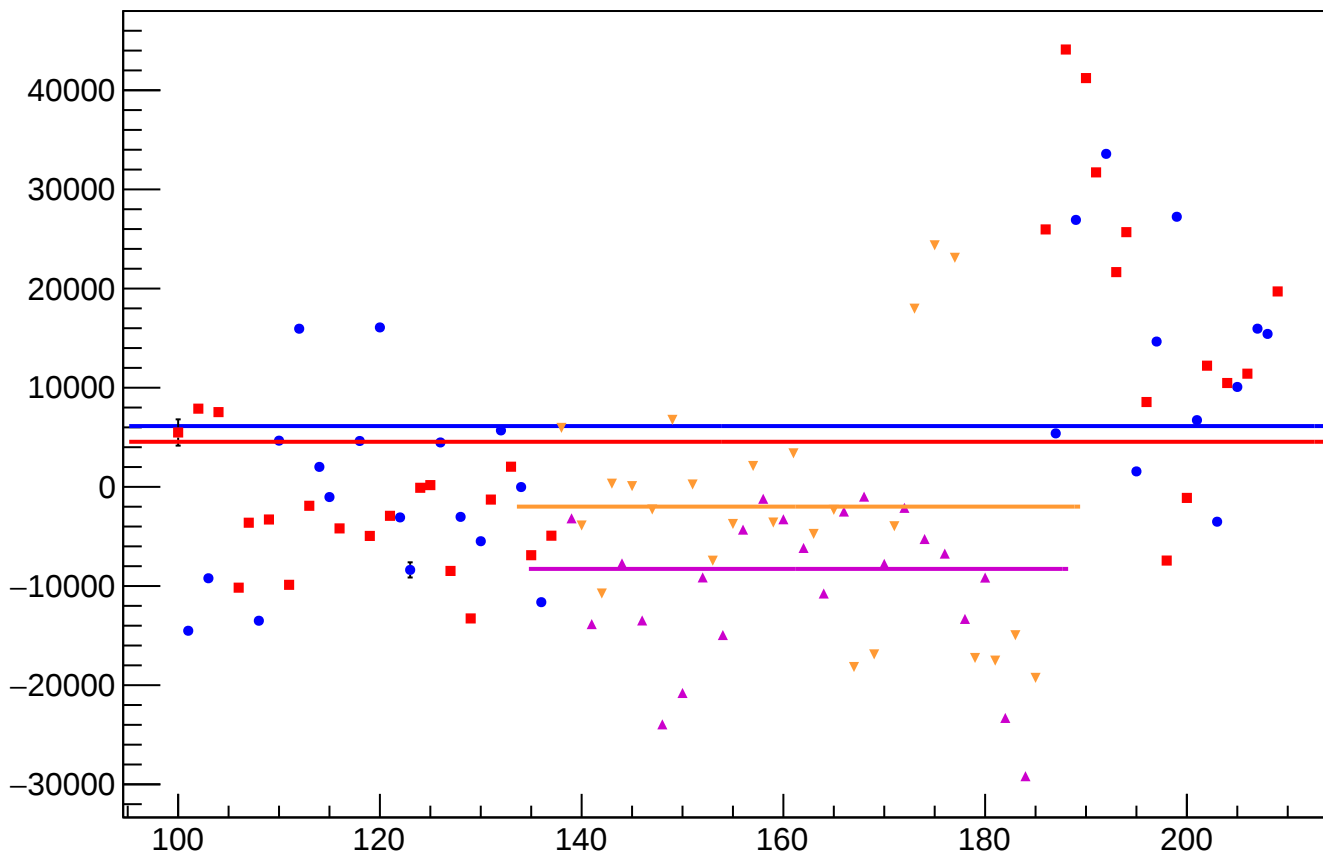
Right: 343.617 ± 0.045 $\chi^2/\text{NDF}: 2507849.4/59$

In: 358.998 ± 0.046 $\chi^2/\text{NDF}: 3028935.9/50$

Out: 356.570 ± 0.044 $\chi^2/\text{NDF}: 3186026.0/56$

All: 357.731 ± 0.032 $\chi^2/\text{NDF}: 6216391.9/107$

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: 4547.175+/-39.845

χ^2/NDF : 139268.0/31

Left In: -8273.228+/-44.301

χ^2/NDF : 22870.2/22

Left: -4996.810+/-30.641

χ^2/NDF : 97123.2/47

Right: 5297.371+/-28.913

χ^2/NDF : 230649.0/59

In: -690.312+/-30.487

χ^2/NDF : 169159.0/50

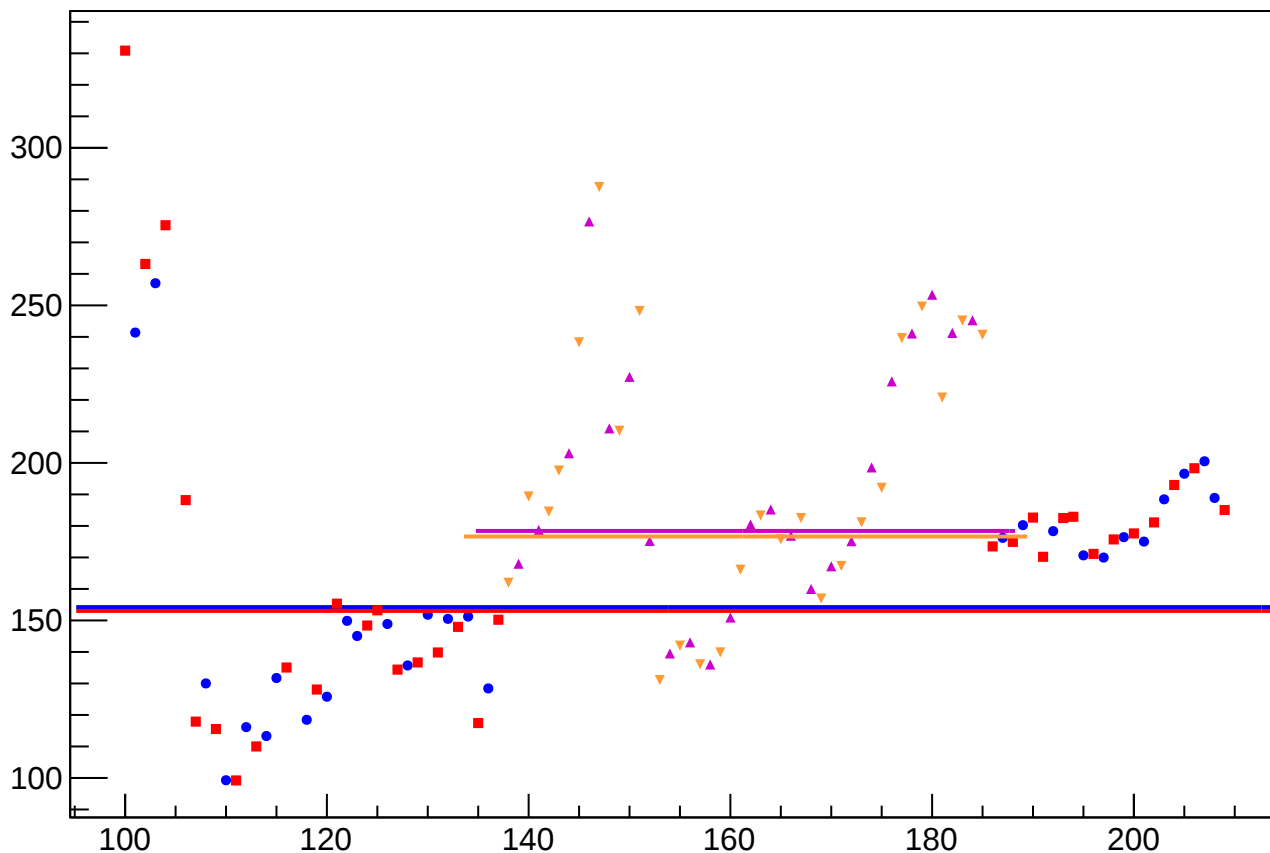
Out: 1482.703+/-29.044

χ^2/NDF : 215656.4/56

All: 448.824+/-21.029

χ^2/NDF : 387478.6/107

asym_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 154.232 $\pm$ 0.030 χ^2 /NDF: 1290550.5/27

Left Out: 176.641 $\pm$ 0.030 χ^2 /NDF:1551048.8/24

Right Out: 153.031 $\pm$ 0.028 χ^2 /NDF: 1575004.8/31

Left In: 178.413 $\pm$ 0.031 χ^2 /NDF:1293736.2/22

Left: 177.489 $\pm$ 0.022 χ^2 /NDF: 2846455.0/47

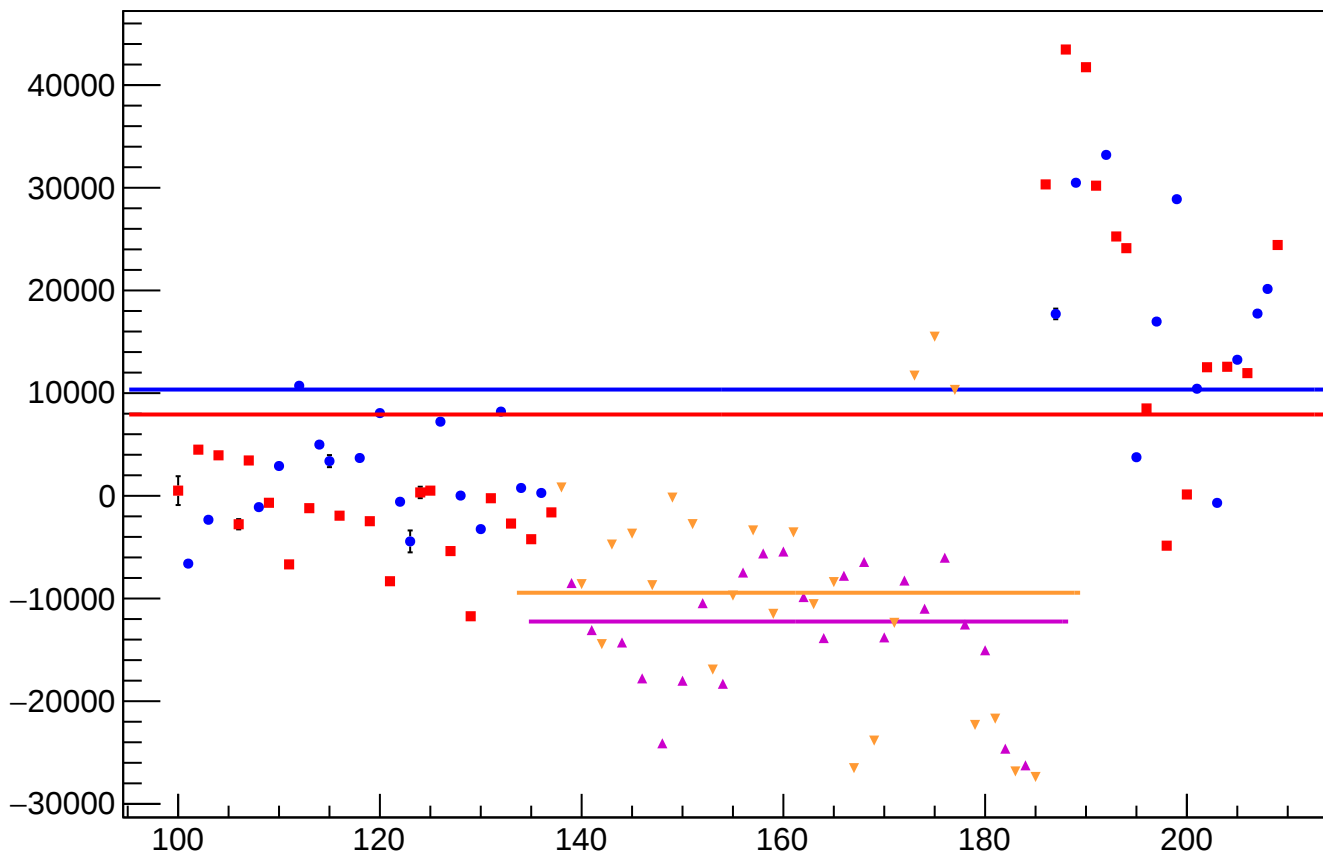
Right: 153.600 $\pm$ 0.020 χ^2 /NDF: 2866415.0/59

In: 165.684 $\pm$ 0.022 χ^2 /NDF:2897967.2/50

Out: 164.096 $\pm$ 0.021 χ^2 /NDF:3455134.6/56

All: 164.851 $\pm$ 0.015 χ^2 /NDF: 6355946.8/107

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: 9067.418+/-32.400

χ^2/NDF : 164229.3/59

Right Out: 7920.980+/-44.590

χ^2/NDF : 110584.1/31

In: -1742.540+/-32.150

χ^2/NDF : 191696.0/50

Out: -576.400+/-31.859

χ^2/NDF : 246989.2/56

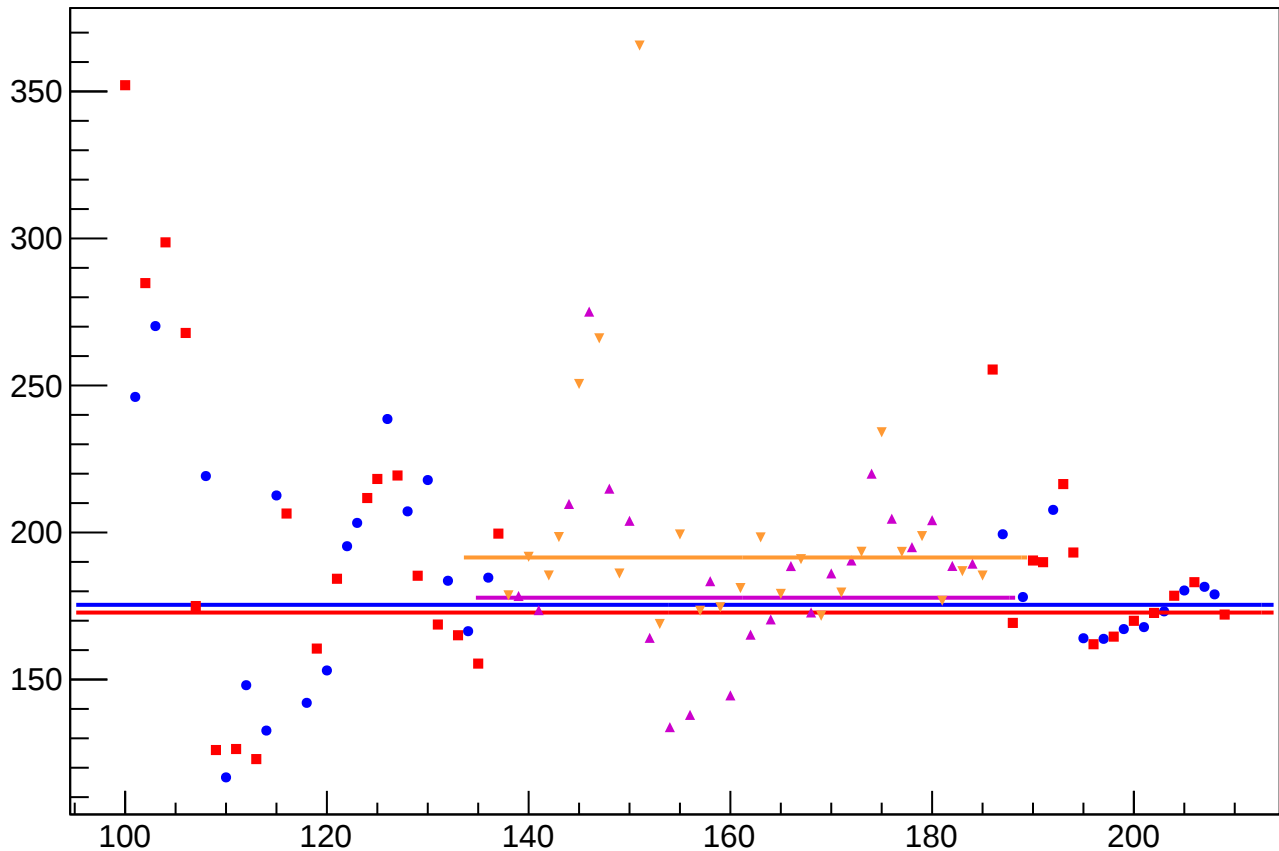
Left In: -12242.226+/-43.944

χ^2/NDF : 16615.8/22

All: -1154.161+/-22.630

χ^2/NDF : 439349.0/1

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: 172.773 ± 0.032 $\chi^2/\text{NDF}: 1131674.4/31$

Left In: 177.821 ± 0.031 $\chi^2/\text{NDF}: 862494.4/22$

Left: 184.421 ± 0.022 $\chi^2/\text{NDF}: 1683284.8/47$

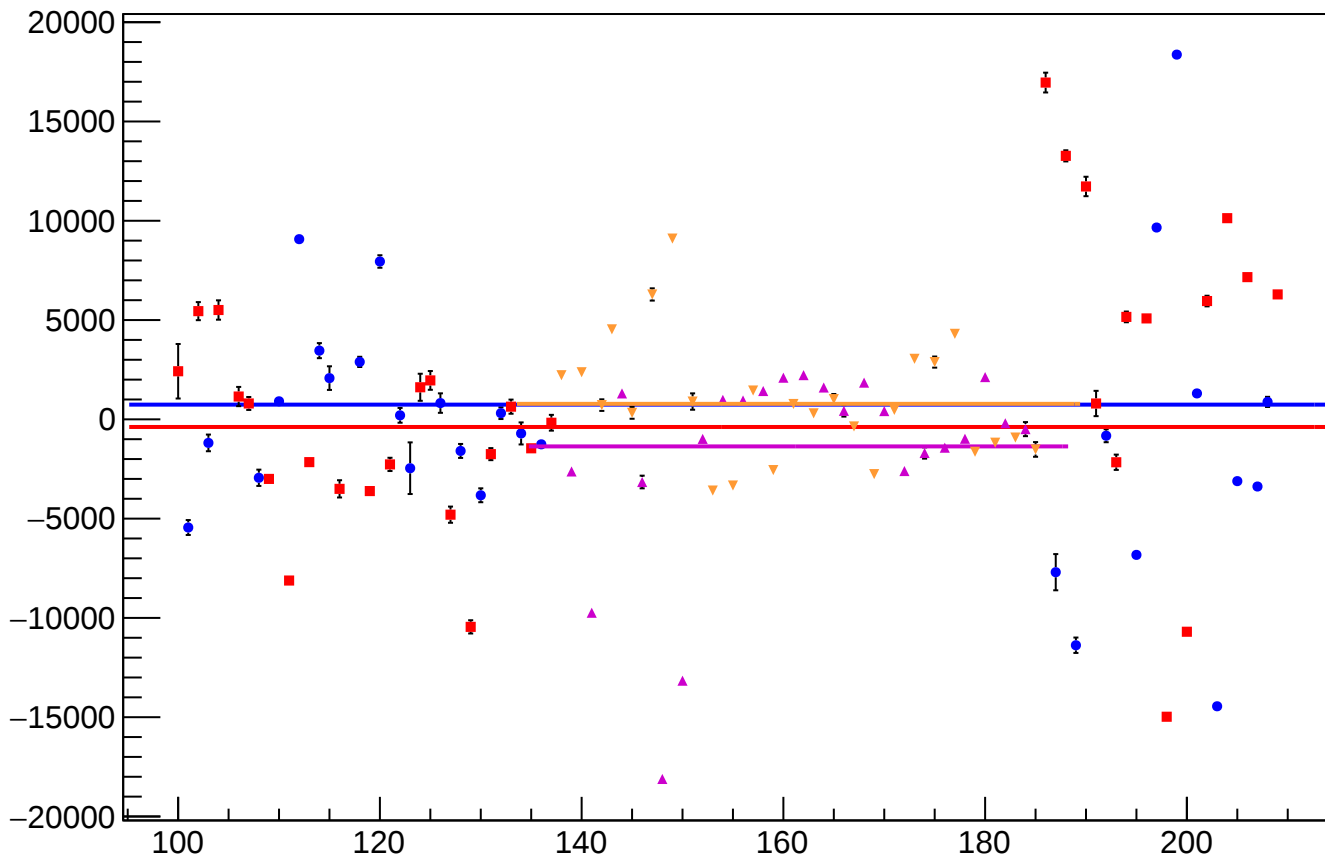
Right: 174.013 ± 0.023 $\chi^2/\text{NDF}: 1897259.9/59$

In: 176.697 ± 0.023 $\chi^2/\text{NDF}: 1627621.1/50$

Out: 181.944 ± 0.023 $\chi^2/\text{NDF}: 2031737.9/56$

All: 179.344 ± 0.016 $\chi^2/\text{NDF}: 3686238.6/107$

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: -384.528 ± 50.313 $\chi^2/\text{NDF}: 21349.8/31$

Left In: -1363.043 ± 45.807 $\chi^2/\text{NDF}: 11632.9/22$

Left: -329.448 ± 32.958 $\chi^2/\text{NDF}: 16949.3/47$

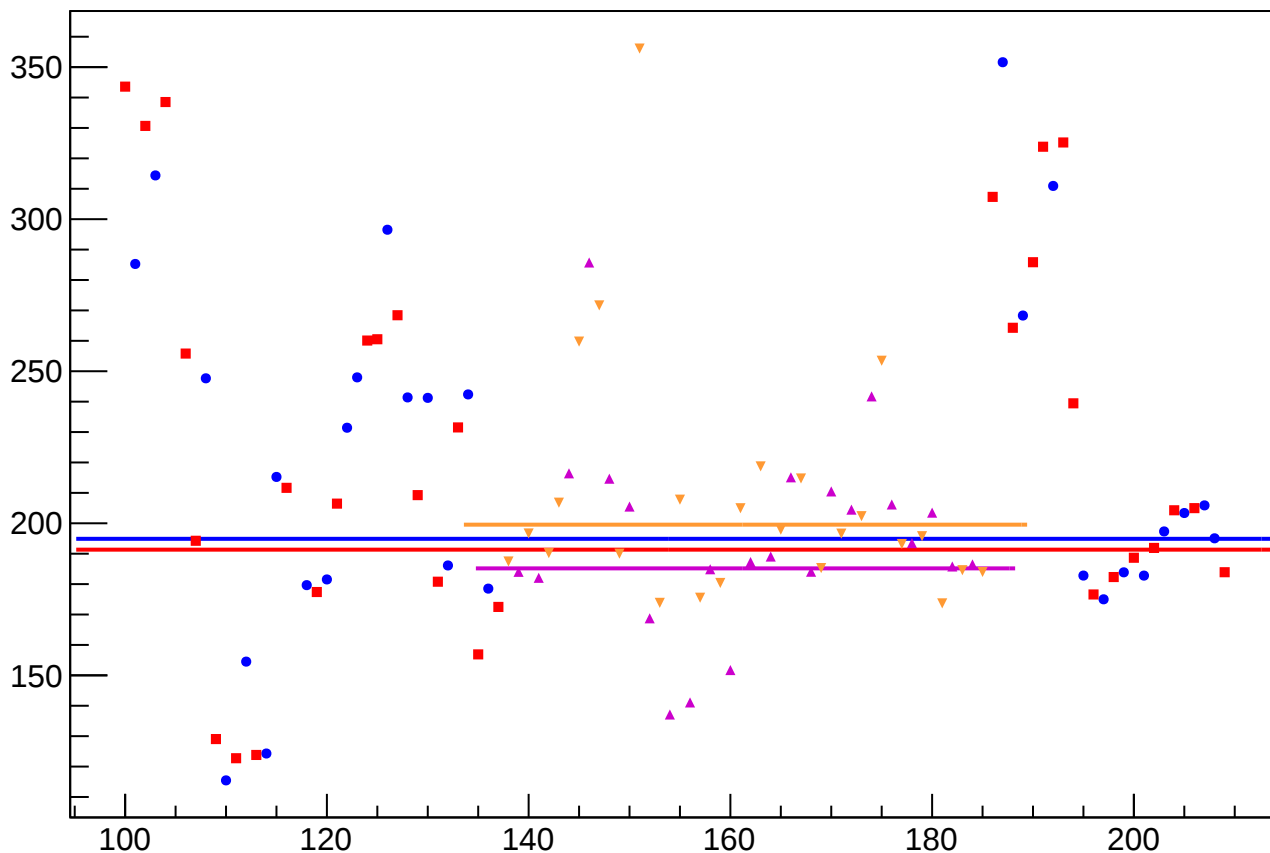
Right: 149.169 ± 36.479 $\chi^2/\text{NDF}: 41925.2/59$

In: -462.910 ± 34.648 $\chi^2/\text{NDF}: 32873.5/50$

Out: 231.715 ± 34.523 $\chi^2/\text{NDF}: 25894.0/56$

All: -114.346 ± 24.455 $\chi^2/\text{NDF}: 58969.2/107$

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: 191.329 ± 0.036 χ^2/NDF : 2144713.7/31

Left In: 185.171 ± 0.032 χ^2/NDF : 882752.2/22

Left: 192.104 ± 0.023 χ^2/NDF : 1707122.0/47

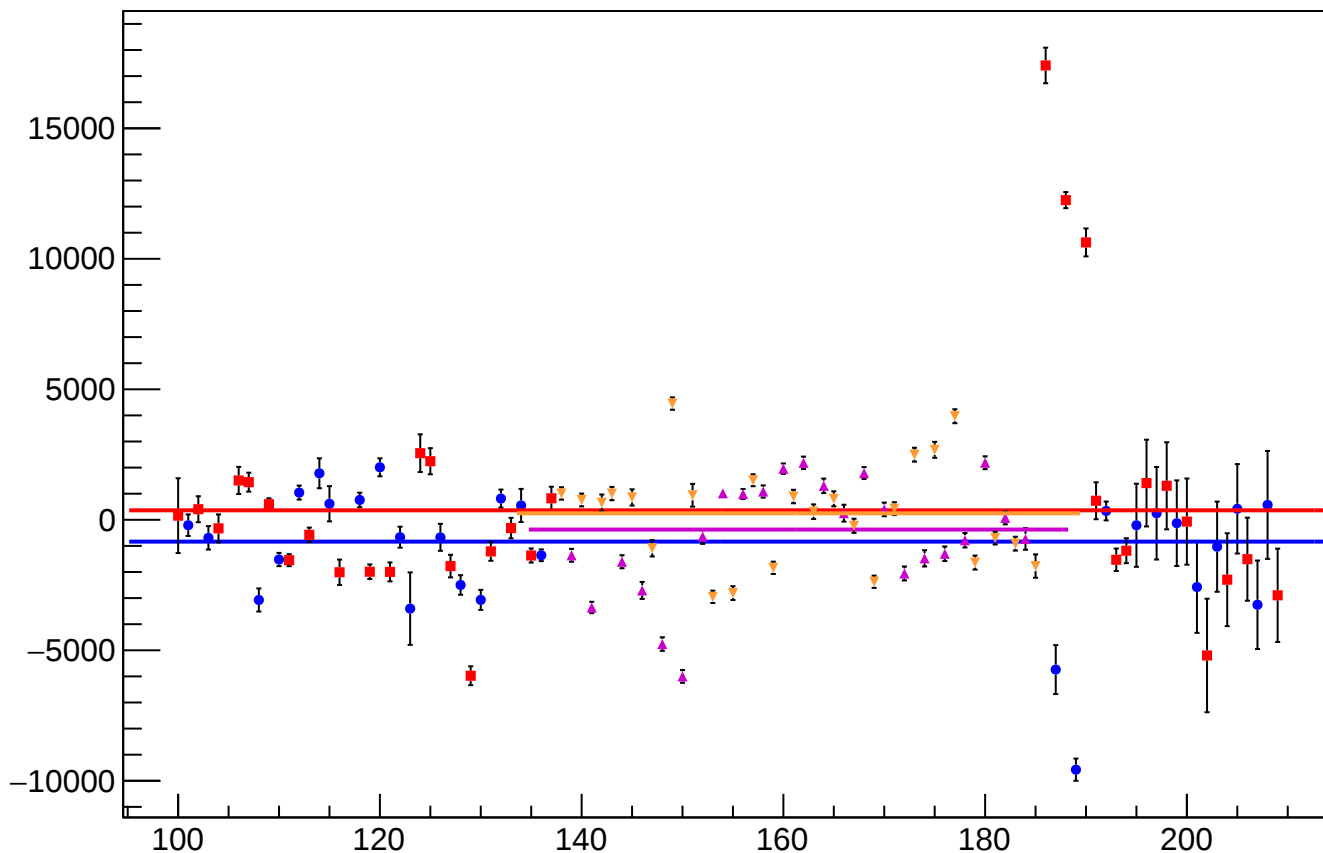
Right: 193.020 ± 0.026 χ^2/NDF : 3564854.7/59

In: 189.330 ± 0.024 χ^2/NDF : 2336684.5/50

Out: 195.678 ± 0.024 χ^2/NDF : 2902302.1/56

All: 192.516 ± 0.017 χ^2/NDF : 5272669.8/107

asym_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -835.946 ± 83.372 $\chi^2/\text{NDF}: 764.2/27$

Left Out: 247.844 ± 53.555 $\chi^2/\text{NDF}: 1355.1/24$

Right Out: 363.269 ± 74.924 $\chi^2/\text{NDF}: 3176.1/31$

Left In: -374.122 ± 52.049 $\chi^2/\text{NDF}: 1801.0/22$

Left: -72.006 ± 37.325 $\chi^2/\text{NDF}: 3225.5/47$

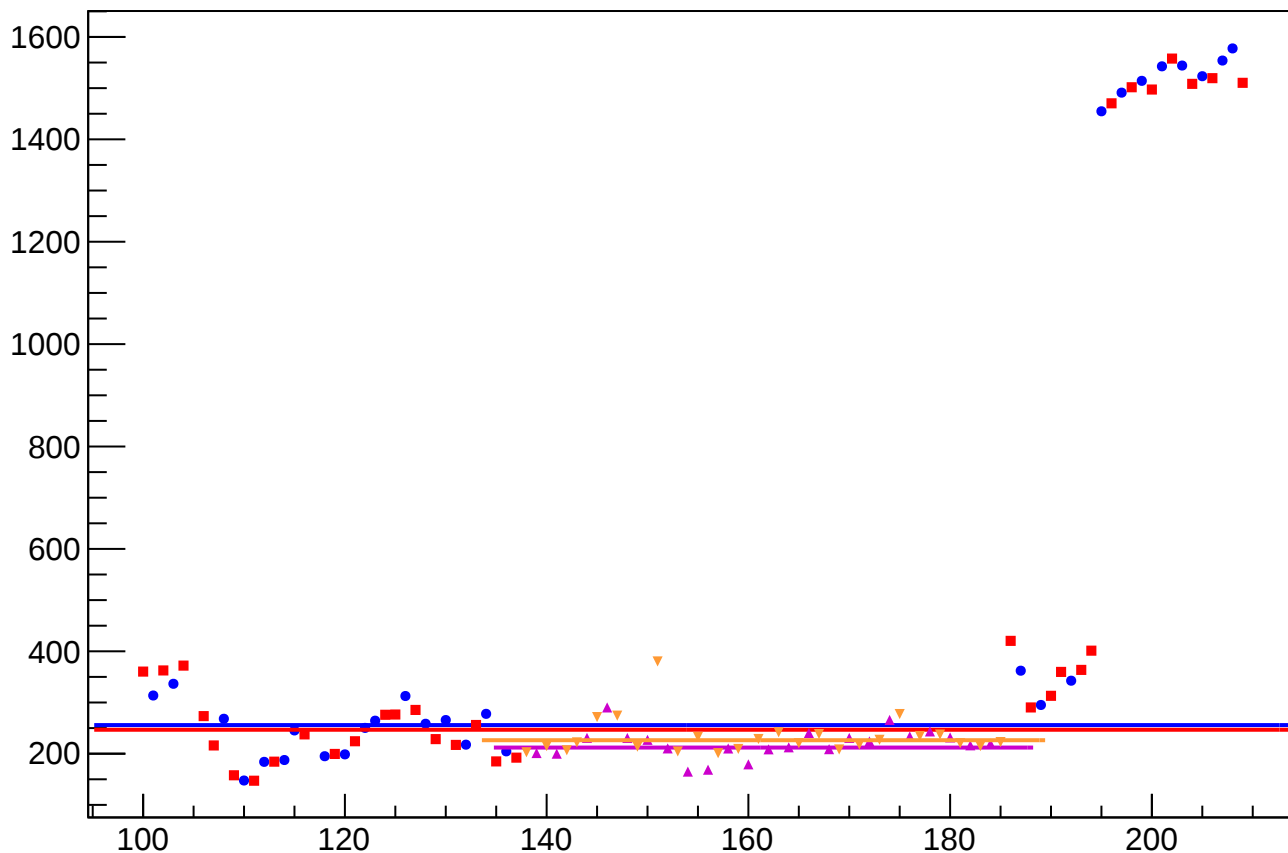
Right: -172.518 ± 55.727 $\chi^2/\text{NDF}: 4054.7/59$

In: -503.638 ± 44.151 $\chi^2/\text{NDF}: 2587.3/50$

Out: 286.875 ± 43.569 $\chi^2/\text{NDF}: 4532.8/56$

All: -103.133 ± 31.012 $\chi^2/\text{NDF}: 7282.5/107$

asym_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 255.878+/-0.059 χ^2/NDF : 9660935.2/27

Left Out: 226.322+/-0.038 χ^2/NDF : 521041.8/24

Right Out: 246.769+/-0.053 χ^2/NDF : 9270462.8/31

Left In: 211.970+/-0.037 χ^2/NDF : 584344.5/22

Left: 218.941+/-0.026 χ^2/NDF : 1179246.7/47

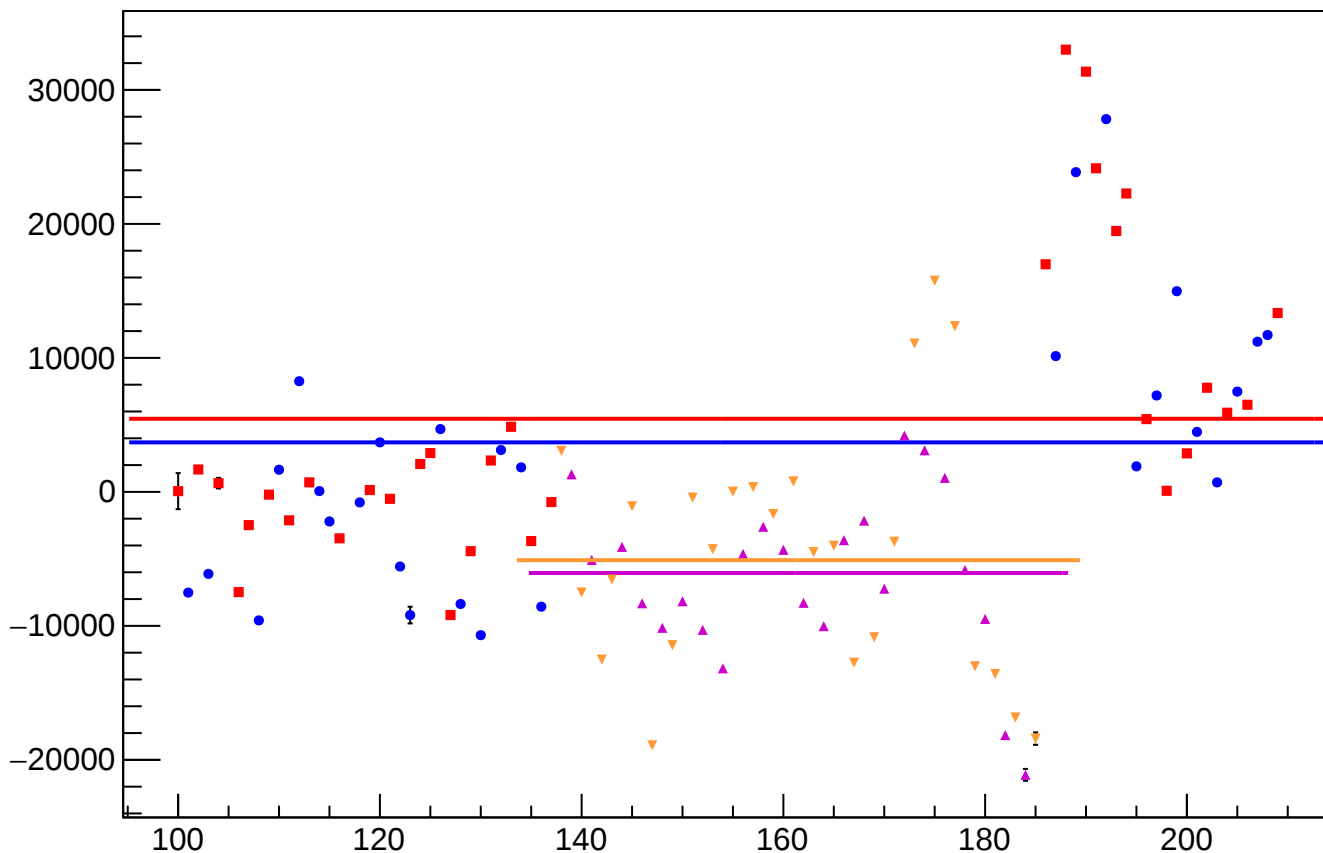
Right: 250.839+/-0.039 χ^2/NDF : 18944605.1/59

In: 224.284+/-0.031 χ^2/NDF : 10644432.1/50

Out: 233.236+/-0.031 χ^2/NDF : 9890093.9/56

All: 228.820+/-0.022 χ^2/NDF : 20576184.8/10

asym_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: 3694.951+/-35.717

χ^2/NDF : 77238.0/27

Left Out: -5095.305+/-33.703

χ^2/NDF : 54395.4/24

Right Out: 5456.325+/-33.607

χ^2/NDF : 102872.6/31

Left In: -6053.569+/-34.998

χ^2/NDF : 17590.3/22

Left: -5556.386+/-24.277

χ^2/NDF : 72374.6/47

Right: 4629.209+/-24.476

χ^2/NDF : 181400.5/59

In: -1278.447+/-24.998

χ^2/NDF : 132832.8/50

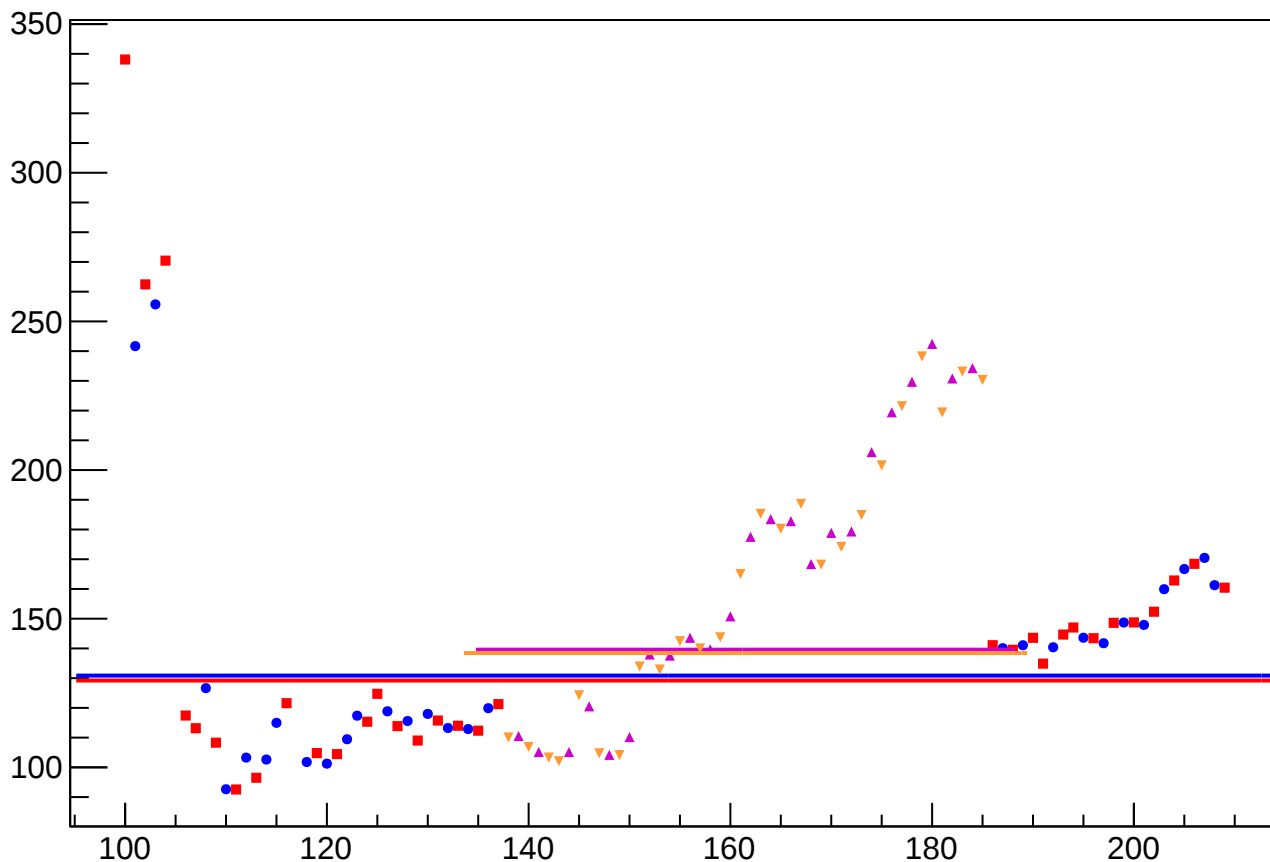
Out: 195.648+/-23.798

χ^2/NDF : 206415.8/56

All: -505.169+/-17.236

χ^2/NDF : 341072.8/10

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: 129.205+/-0.024 χ^2/NDF : 1417392.3/31

Left In: 139.578+/-0.025 χ^2/NDF : 2413658.9/22

Left: 138.985+/-0.017 χ^2/NDF : 4964199.7/47

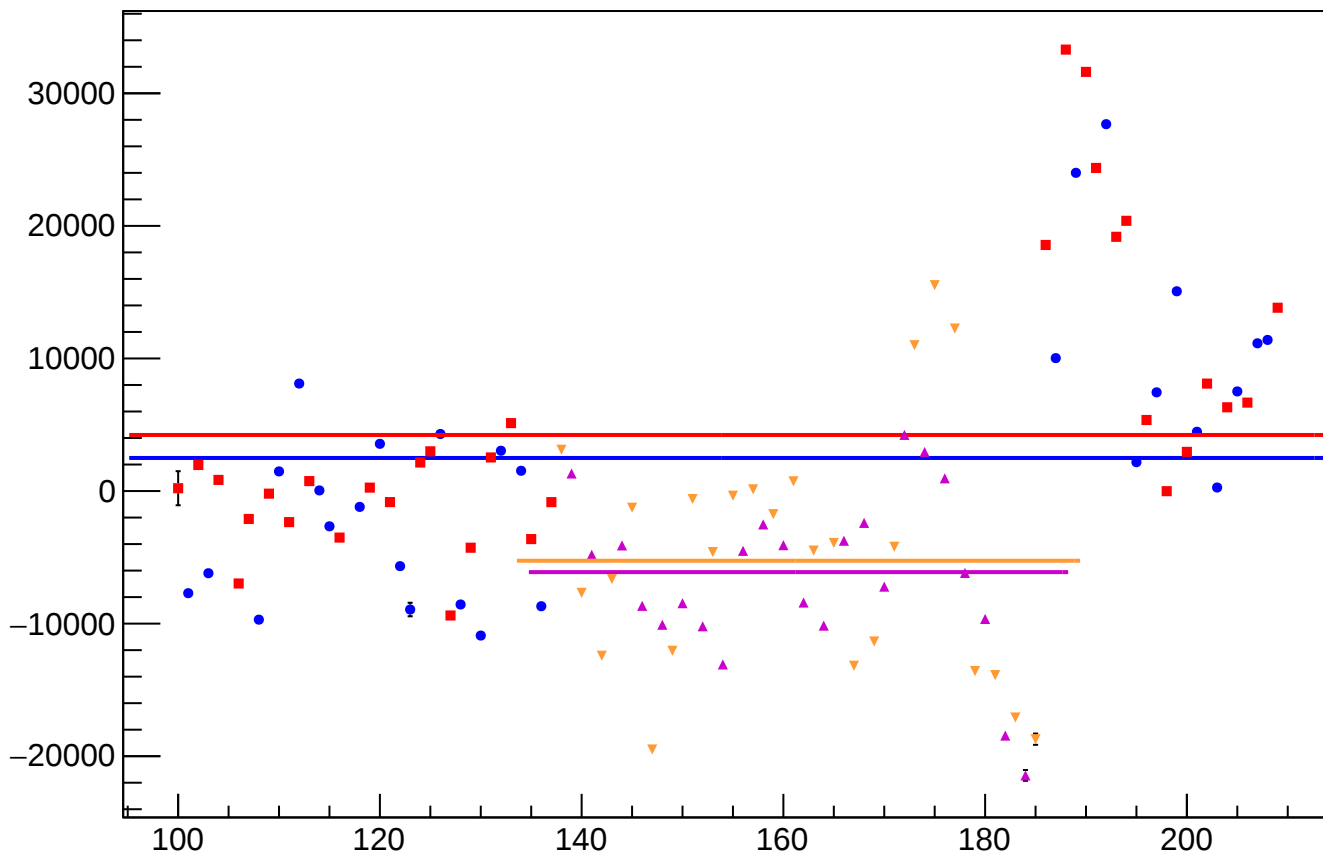
Right: 129.985+/-0.017 χ^2/NDF : 2706651.4/59

In: 135.310+/-0.018 χ^2/NDF : 3761330.8/50

Out: 133.807+/-0.017 χ^2/NDF : 4042048.4/56

All: 134.522+/-0.012 χ^2/NDF : 7807172.4/107

asym_bpm1i04WS_mean vs Slug, Sign Corrected



Right In: 2495.779+/-31.900

χ^2/NDF : 86438.2/27

Left Out: -5255.652+/-30.622

χ^2/NDF : 64324.6/24

Right Out: 4229.754+/-30.216

χ^2/NDF : 111480.2/31

Left In: -6114.901+/-32.126

χ^2/NDF : 21260.9/22

Left: -5664.697+/-22.166

χ^2/NDF : 85960.3/47

Right: 3409.745+/-21.937

χ^2/NDF : 199475.7/59

In: -1779.248+/-22.636

χ^2/NDF : 143872.4/50

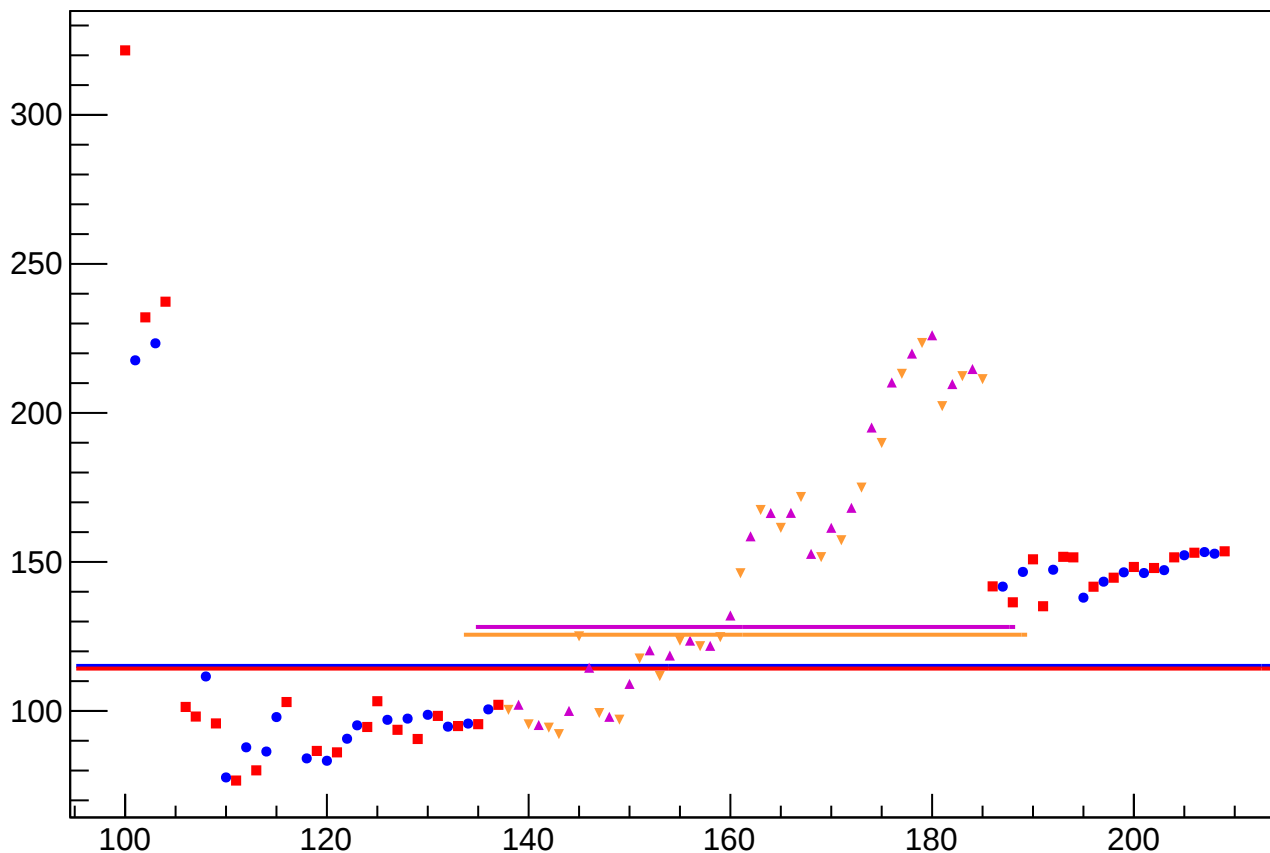
Out: -449.670+/-21.508

χ^2/NDF : 224420.0/56

All: -1080.505+/-15.592

χ^2/NDF : 370105.6/1

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: 114.216 $\pm$ 0.021 χ^2 /NDF: 2253489.9/31

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

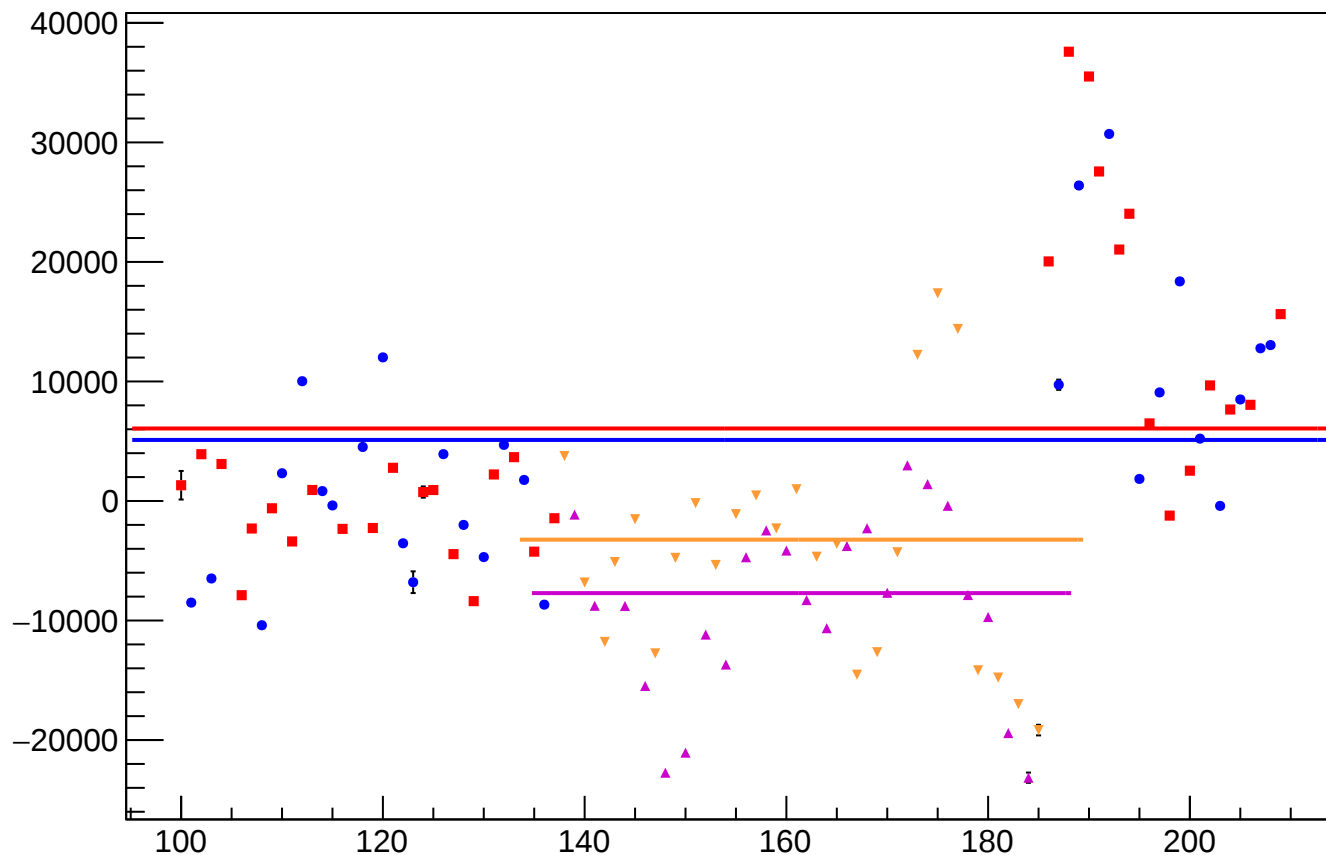
Right: 114.639 $\pm$ 0.016 χ^2 /NDF: 4224237.9/59

In: 121.601 $\pm$ 0.016 χ^2 /NDF:4469664.4/50

Out: 119.821 $\pm$ 0.015 χ^2 /NDF:4988741.0/56

All: 120.665 $\pm$ 0.011 χ^2 /NDF: 9464907.2/107

asym_bpm1i06WS_mean vs Slug, Sign Corrected



Right In: 5107.451+/-42.304 χ^2/NDF : 60976.7/27

Left Out: -3234.922+/-40.583 χ^2/NDF : 36739.9/24

Right Out: 6065.974+/-39.928 χ^2/NDF : 92279.9/31

Left In: -7707.068+/-42.990 χ^2/NDF : 21268.3/22

Left: -5342.284+/-29.511 χ^2/NDF : 63730.6/47

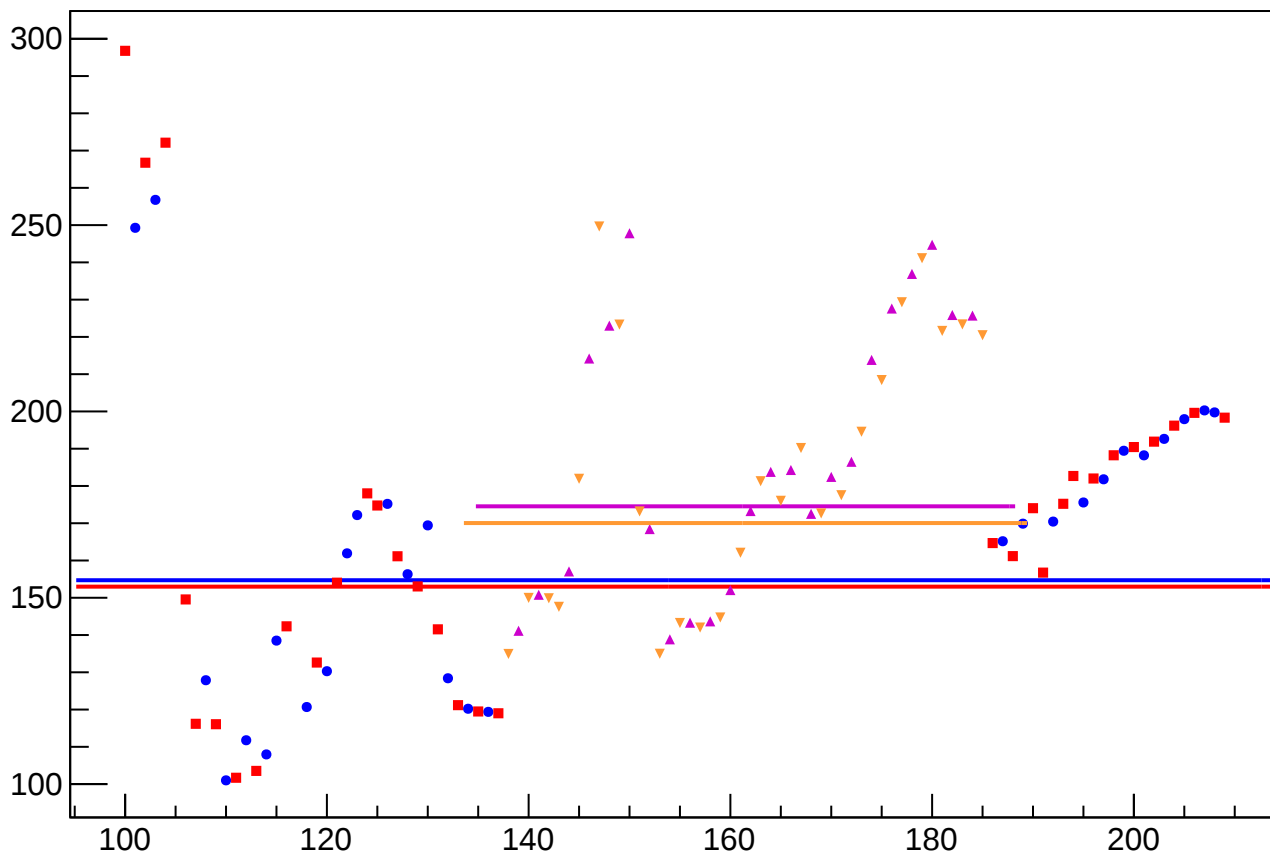
Right: 5614.385+/-29.037 χ^2/NDF : 153528.1/59

In: -1196.698+/-30.153 χ^2/NDF : 127386.4/50

Out: 1491.199+/-28.462 χ^2/NDF : 155709.8/56

All: 224.732+/-20.698 χ^2/NDF : 287298.5/107

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: 152.986 $\pm$ 0.028 χ^2 /NDF: 1716988.6/31

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

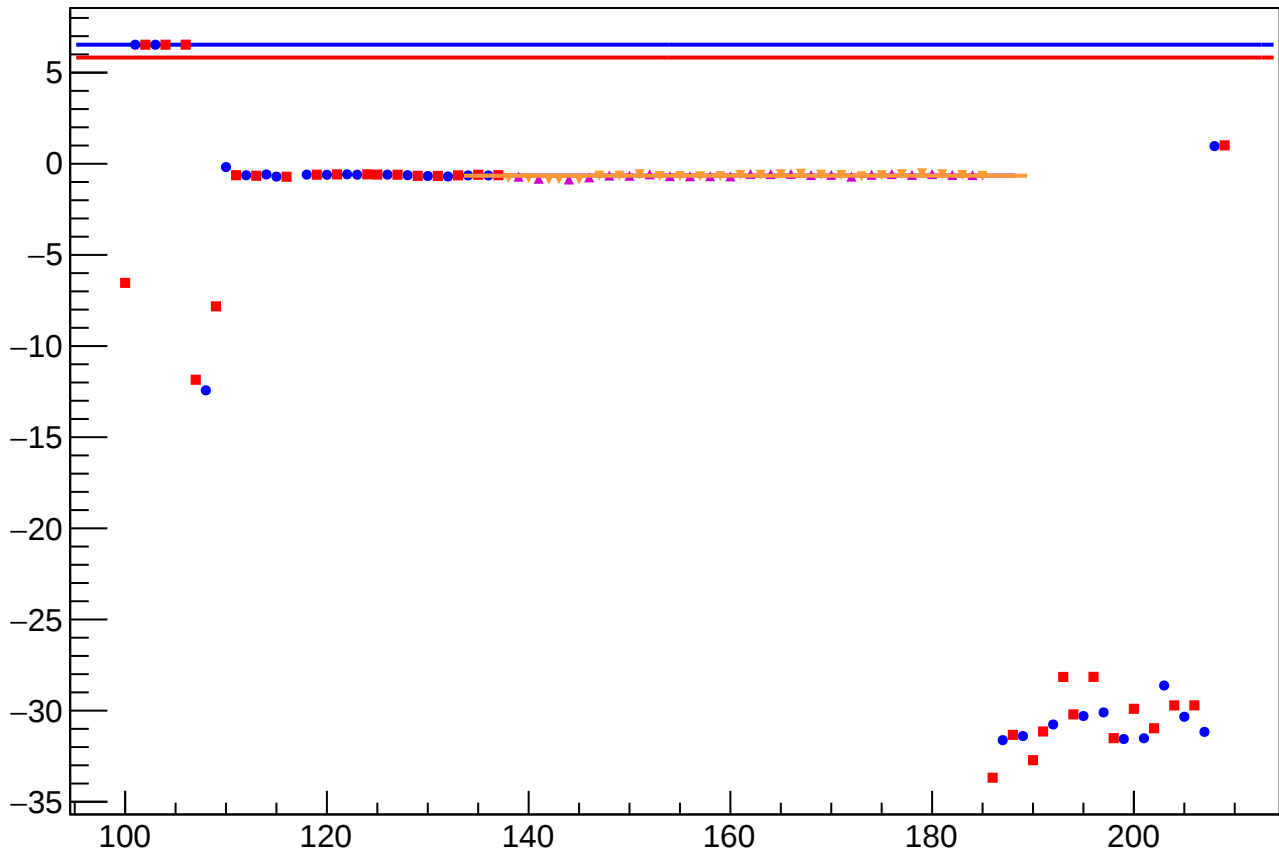
Right: 153.797 $\pm$ 0.021 χ^2 /NDF: 3255628.8/59

In: 164.464 $\pm$ 0.021 χ^2 /NDF:2963192.1/50

Out: 161.379 $\pm$ 0.020 χ^2 /NDF:3137527.4/56

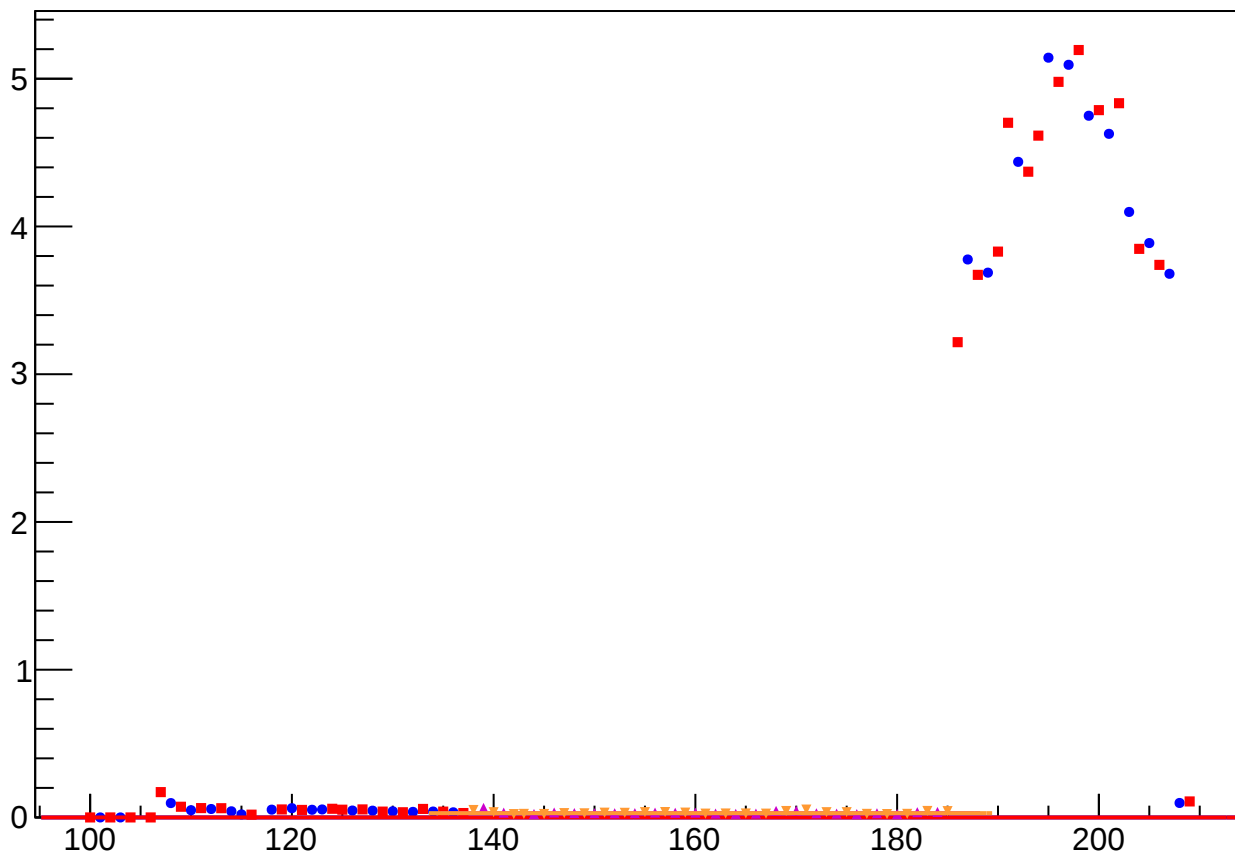
All: 162.832 $\pm$ 0.015 χ^2 /NDF: 6111789.8/107

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 : 776082266081722.4/
Right Out: 5.827+/-0.000	χ^2/NDF : 755949238279295.2/31	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 : 756658266214243.2/5
		All: 6.153+/-0.000	χ^2/NDF : 77760563414641

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 : 26287477.9/31

Left In: 0.029+/-0.000 χ^2/NDF :1164030.9/22

Left: 0.029+/-0.000 χ^2/NDF : 2651180.7/47

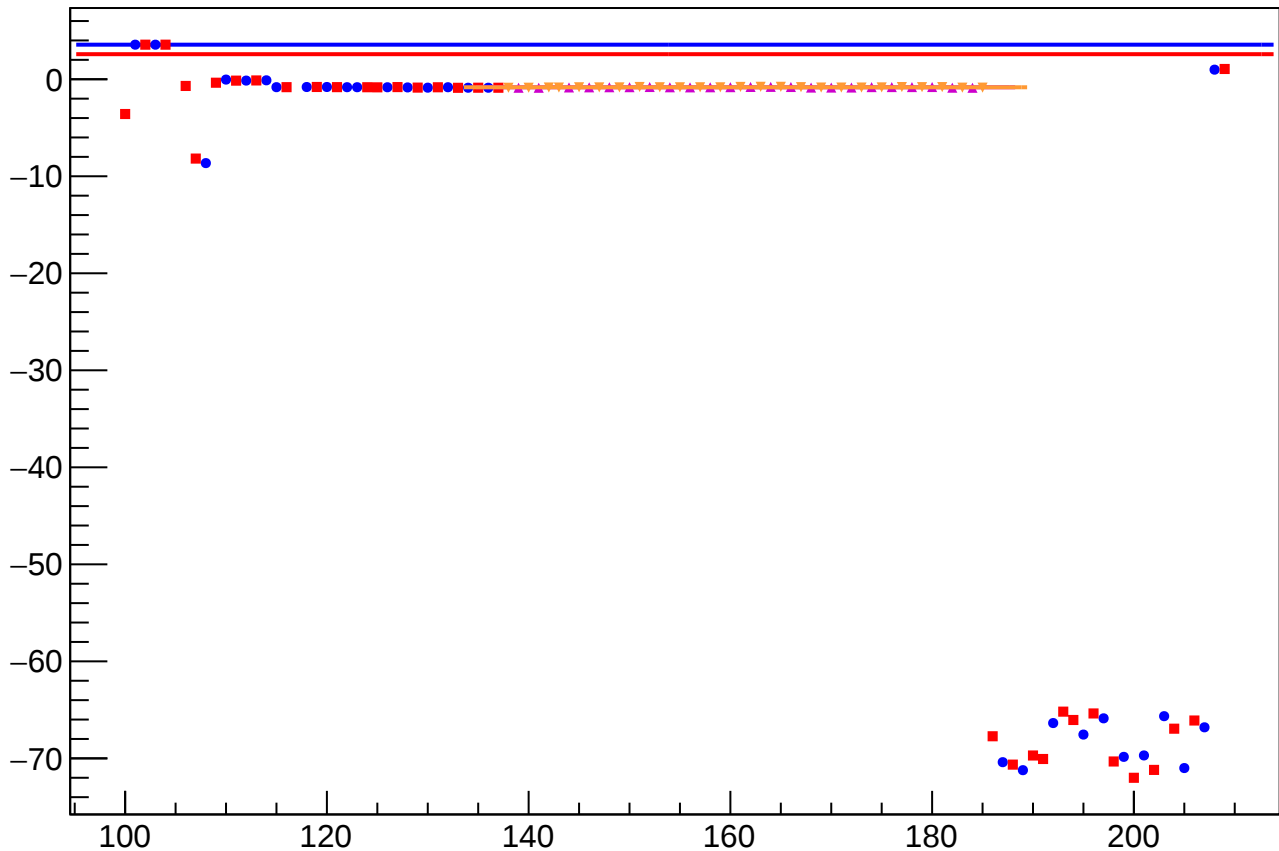
Right: 0.000+/-0.000 χ^2/NDF : 50368229.9/59

In: 0.000+/-0.000 χ^2/NDF :52042024.7/50

Out: 0.000+/-0.000 χ^2/NDF :56162997.5/56

All: 0.000+/-0.000 χ^2/NDF : 108205440.0/107

yield_cav4bY_mean vs Slug, Sign Corrected



Right In: 3.563+/-0.000 χ^2/NDF : 530127462528.1/27

Left Out: -0.828+/-0.000 χ^2/NDF : 168178464.8/24

Right Out: 2.583+/-0.000 χ^2/NDF : 1253539649499442.8/31

Left In: -0.827+/-0.000 χ^2/NDF : 172640246.1/22

Left: -0.827+/-0.000 χ^2/NDF : 340927693.4/47

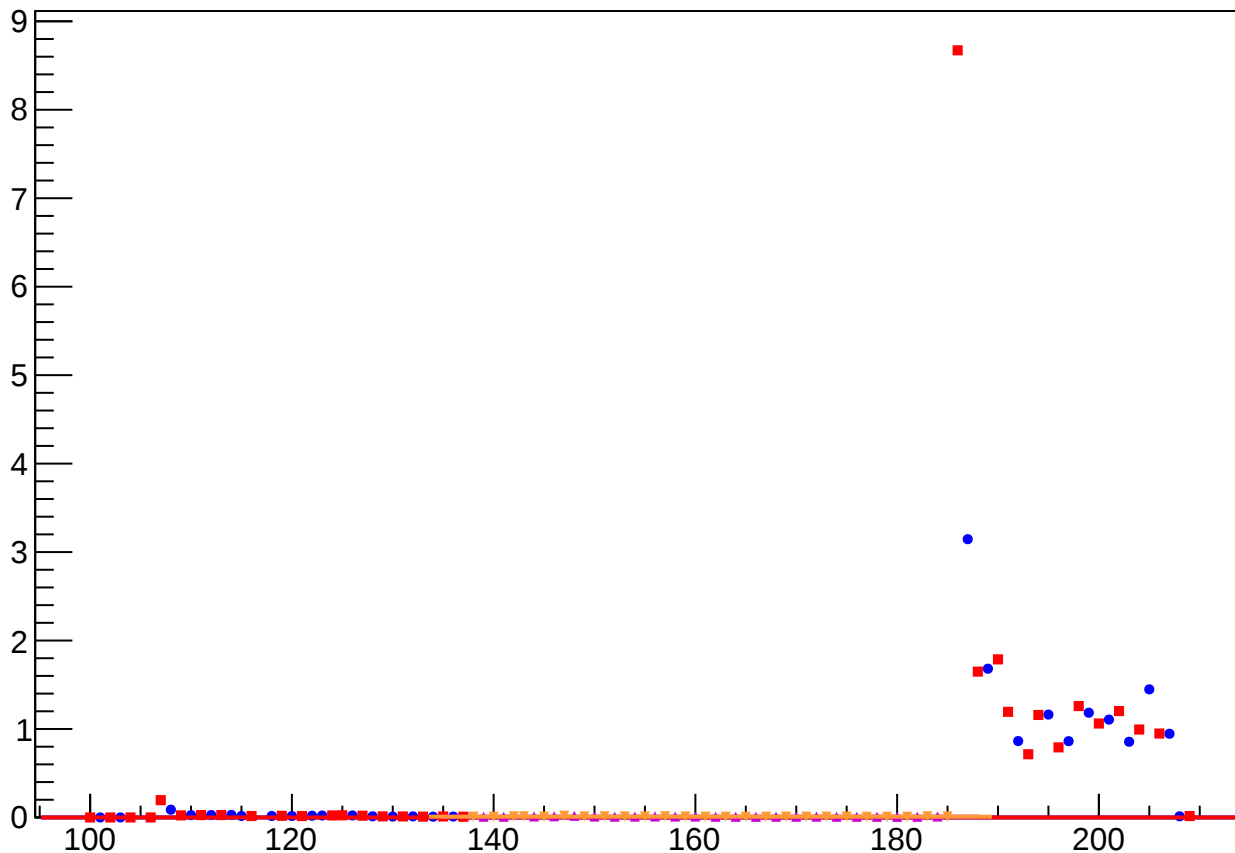
Right: 3.040+/-0.000 χ^2/NDF : 1382338218774734.7

In: 3.560+/-0.000 χ^2/NDF : 4175830556607.9/50

Out: 2.581+/-0.000 χ^2/NDF : 1255761962718742.2

All: 3.038+/-0.000 χ^2/NDF : 13880246312409

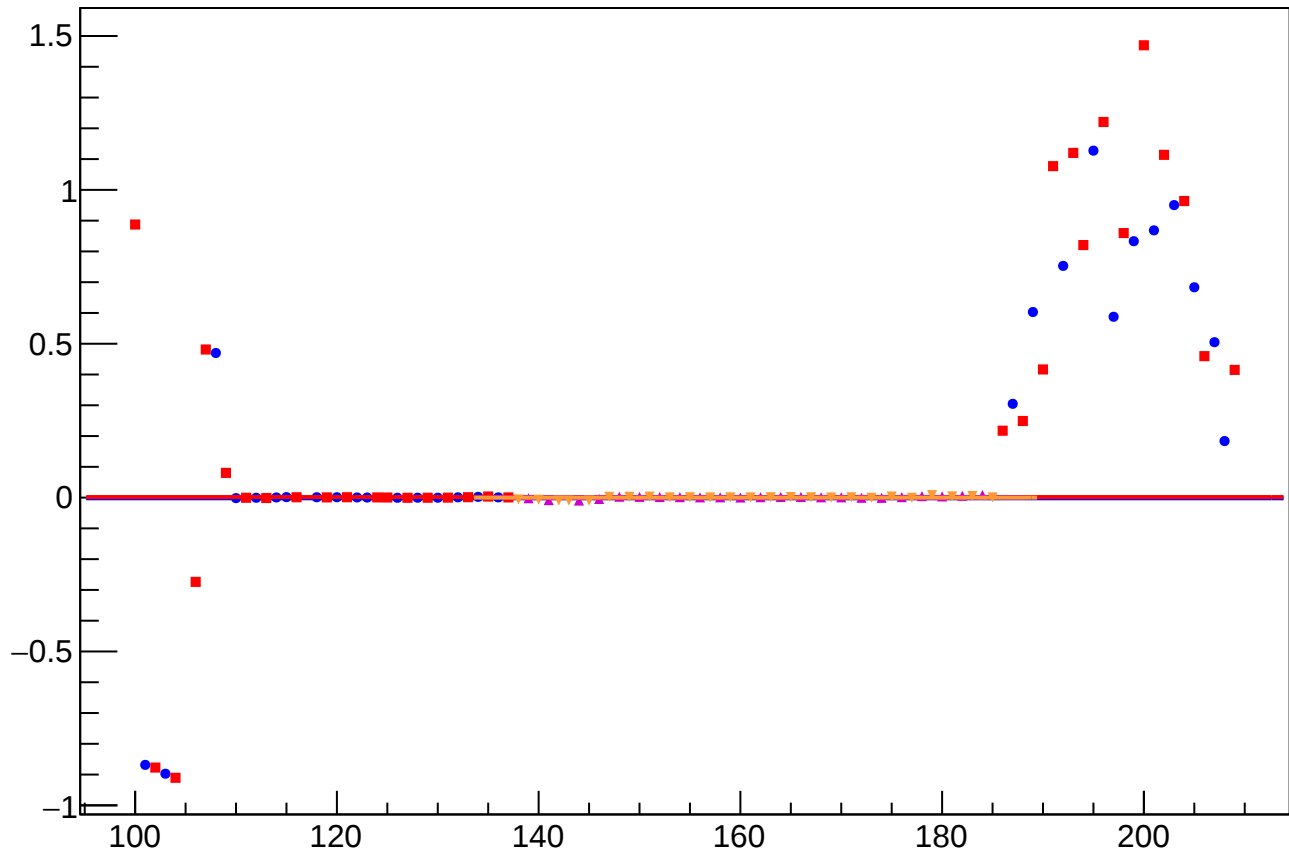
yield_cav4bY_rms vs Slug, Sign Corrected



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 : 24351247.8/31
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 : 46618339.1/59
In: 0.000 +/- 0.000 χ^2/NDF : 51801876.5/50
Out: 0.000 +/- 0.000 χ^2/NDF : 55768872.6/56
All: 0.000 +/- 0.000 χ^2/NDF : 107571507.4/107

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 : 12854572159.5/59

Right Out: 0.002+/-0.000

χ^2/NDF : 3043700986.8/31

In: -0.000+/-0.000 χ^2/NDF : 9909551672.6/50

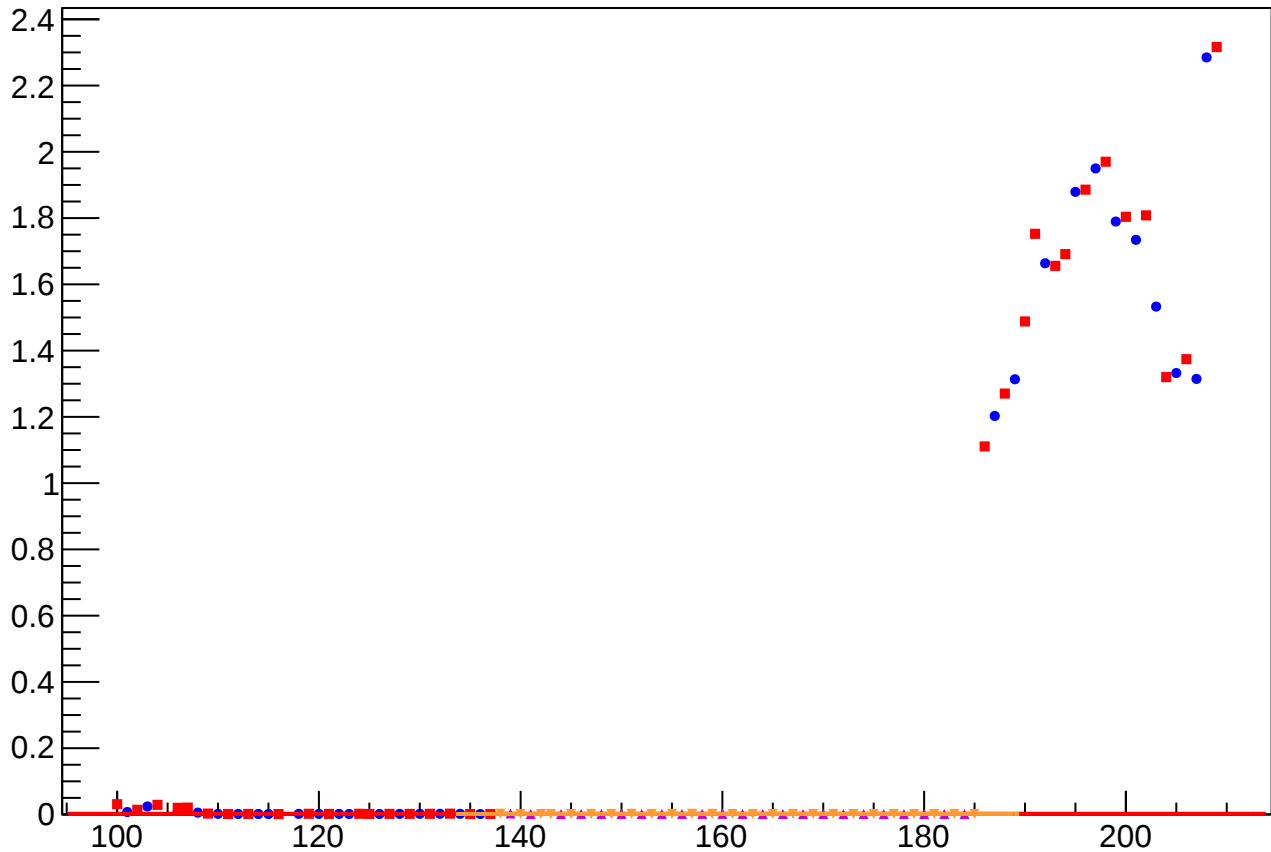
Out: 0.000+/-0.000 χ^2/NDF : 3199918005.3/56

Left In: 0.001+/-0.000

χ^2/NDF : 101439617.3/22

All: 0.000+/-0.000 χ^2/NDF : 13109806713.6/131

yield_cav4cX_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 16959569.2/27

Left Out: 0.001+/-0.000 χ^2/NDF :539817.3/24

Right Out: 0.002+/-0.000 χ^2/NDF : 19916390.1/31

Left In: 0.001+/-0.000 χ^2/NDF :626044.8/22

Left: 0.001+/-0.000 χ^2/NDF : 1169603.9/47

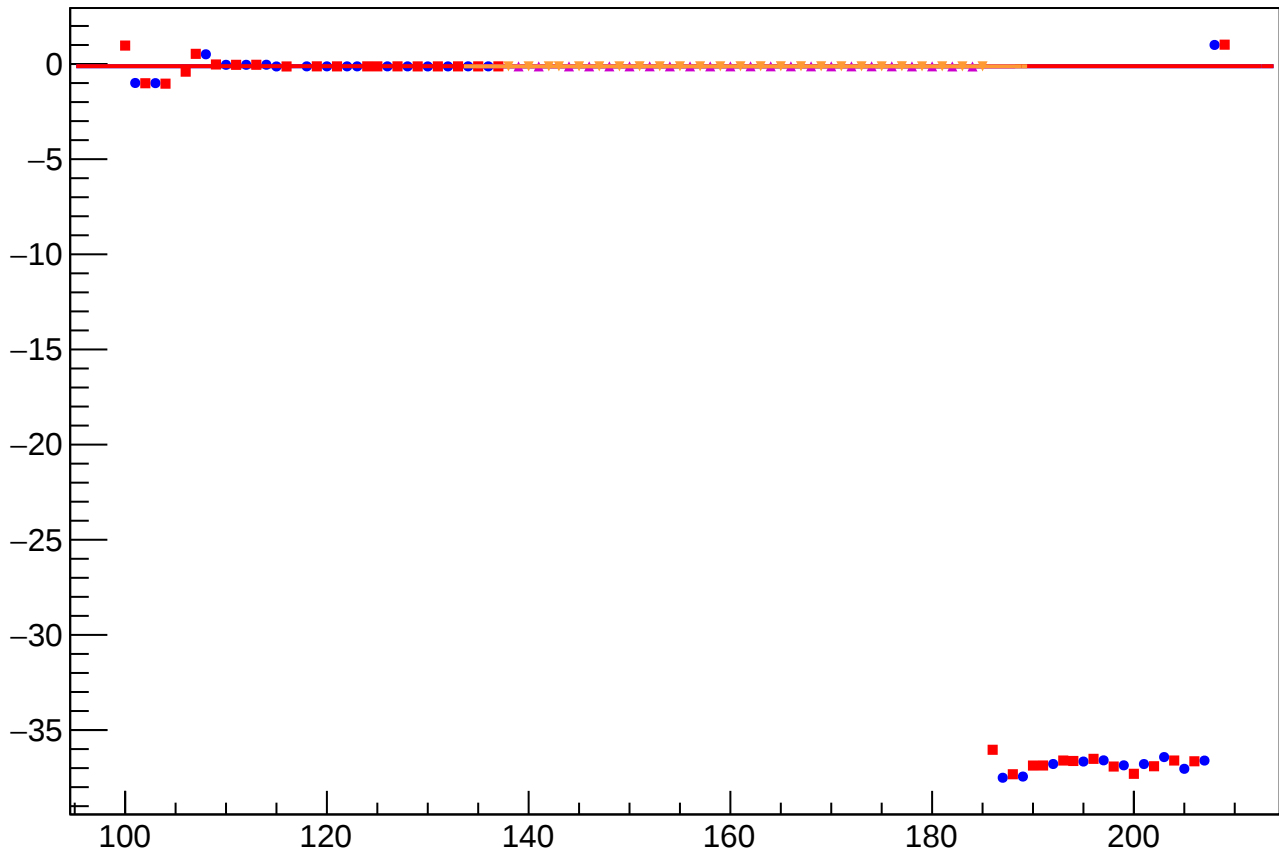
Right: 0.002+/-0.000 χ^2/NDF : 36884491.3/59

In: 0.002+/-0.000 χ^2/NDF :17637538.2/50

Out: 0.002+/-0.000 χ^2/NDF :20595679.8/56

All: 0.002+/-0.000 χ^2/NDF : 38234129.0/107

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: -0.113+/-0.000 χ^2/NDF : 76246613920.5/31

Left In: -0.121+/-0.000 χ^2/NDF : 52113932.9/22

Left: -0.121+/-0.000 χ^2/NDF : 110482905.6/47

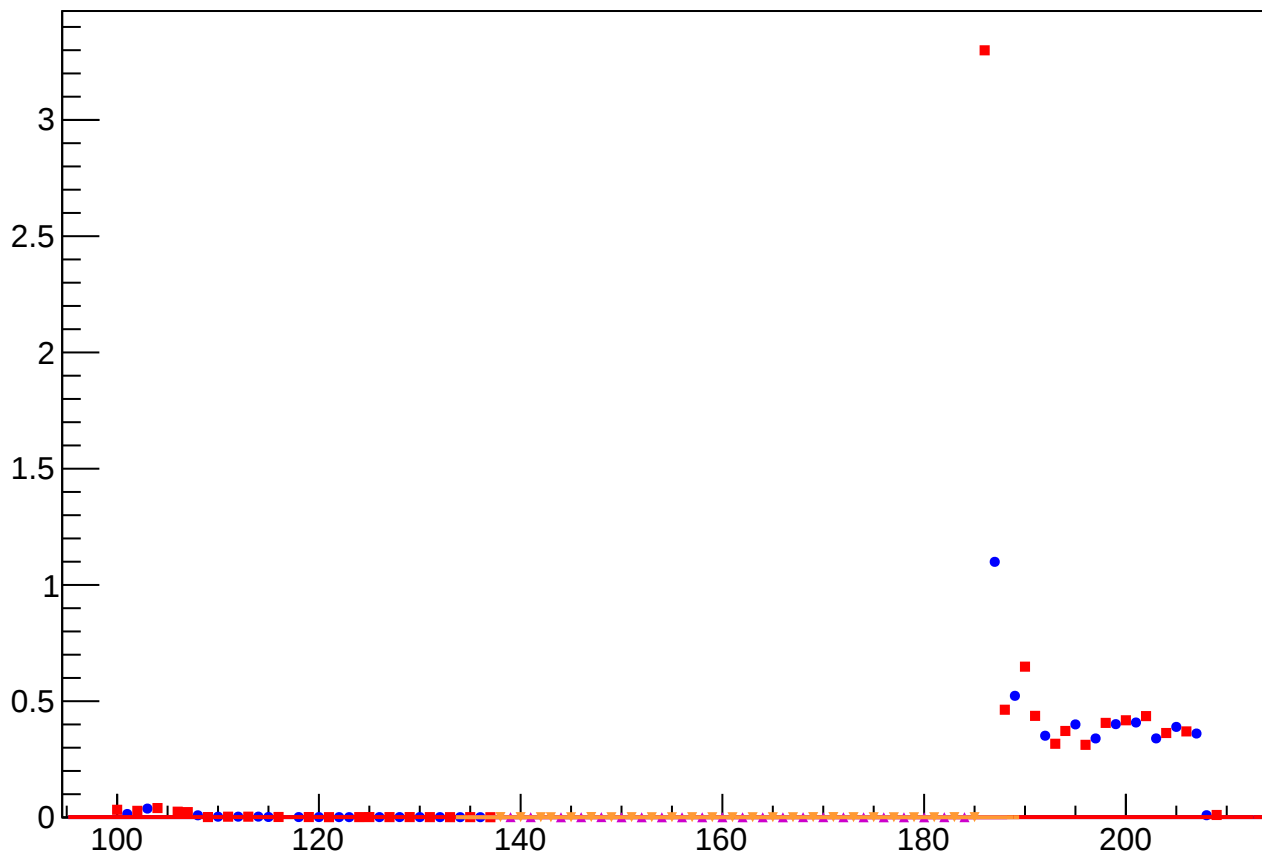
Right: -0.115+/-0.000 χ^2/NDF : 149372091222.9/59

In: -0.121+/-0.000 χ^2/NDF : 73171734063.3/50

Out: -0.120+/-0.000 χ^2/NDF : 76425227018.4/56

All: -0.120+/-0.000 χ^2/NDF : 149597850004.9

yield_cav4cY_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 16939731.4/27

Left Out: 0.001+/-0.000 χ^2/NDF :1363316.8/24

Right Out: 0.002+/-0.000 χ^2/NDF : 19513716.2/31

Left In: 0.001+/-0.000 χ^2/NDF :970801.8/22

Left: 0.001+/-0.000 χ^2/NDF : 2335161.7/47

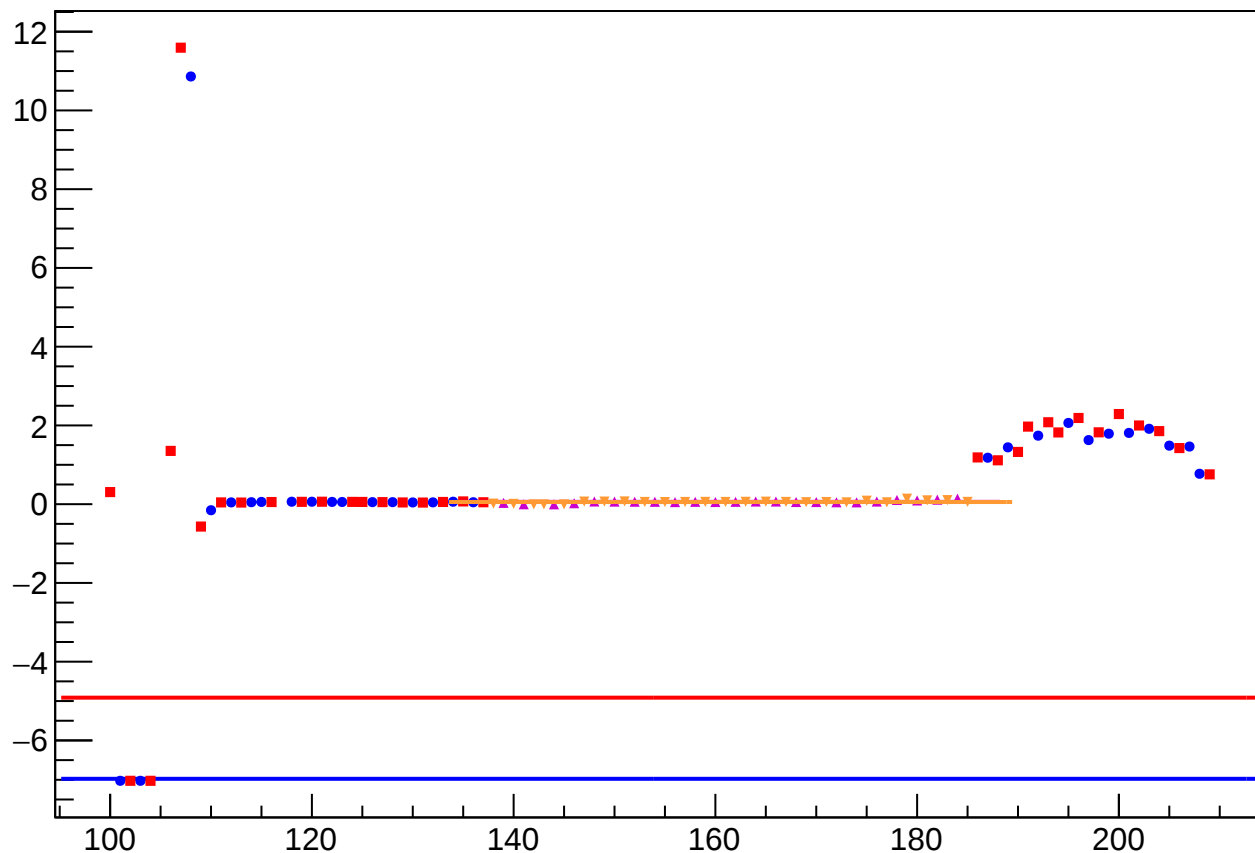
Right: 0.002+/-0.000 χ^2/NDF : 36453476.4/59

In: 0.001+/-0.000 χ^2/NDF :19193755.6/50

Out: 0.001+/-0.000 χ^2/NDF :22183545.3/56

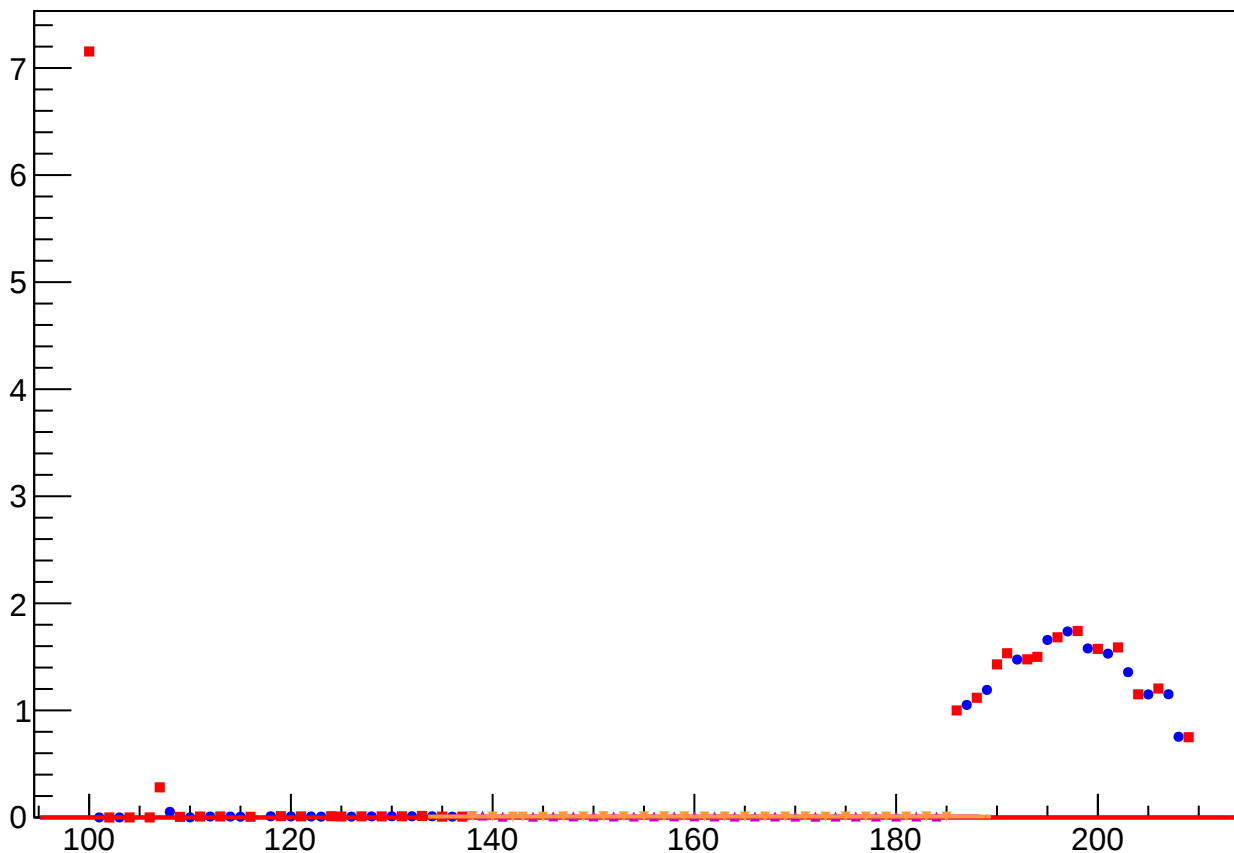
All: 0.001+/-0.000 χ^2/NDF : 41379767.2/107

yield_cav4dX_mean vs Slug, Sign Corrected



Right In: -6.975+/-0.000 χ^2/NDF : 8797691932676.1/27
 Left Out: 0.055+/-0.000 χ^2/NDF : 243682351.4/24
 Right Out: -4.914+/-0.000 χ^2/NDF : 365352877781770.3/31
 Left In: 0.059+/-0.000 χ^2/NDF : 178541521.9/22
 Left: 0.057+/-0.000 χ^2/NDF : 423736513.4/47
 Right: -5.900+/-0.000 χ^2/NDF : 430333815606803.4
 In: -6.926+/-0.000 χ^2/NDF : 17553208516738.9/50
 Out: -4.879+/-0.000 χ^2/NDF : 370165440122506.0
 All: -5.858+/-0.000 χ^2/NDF : 4435291038728

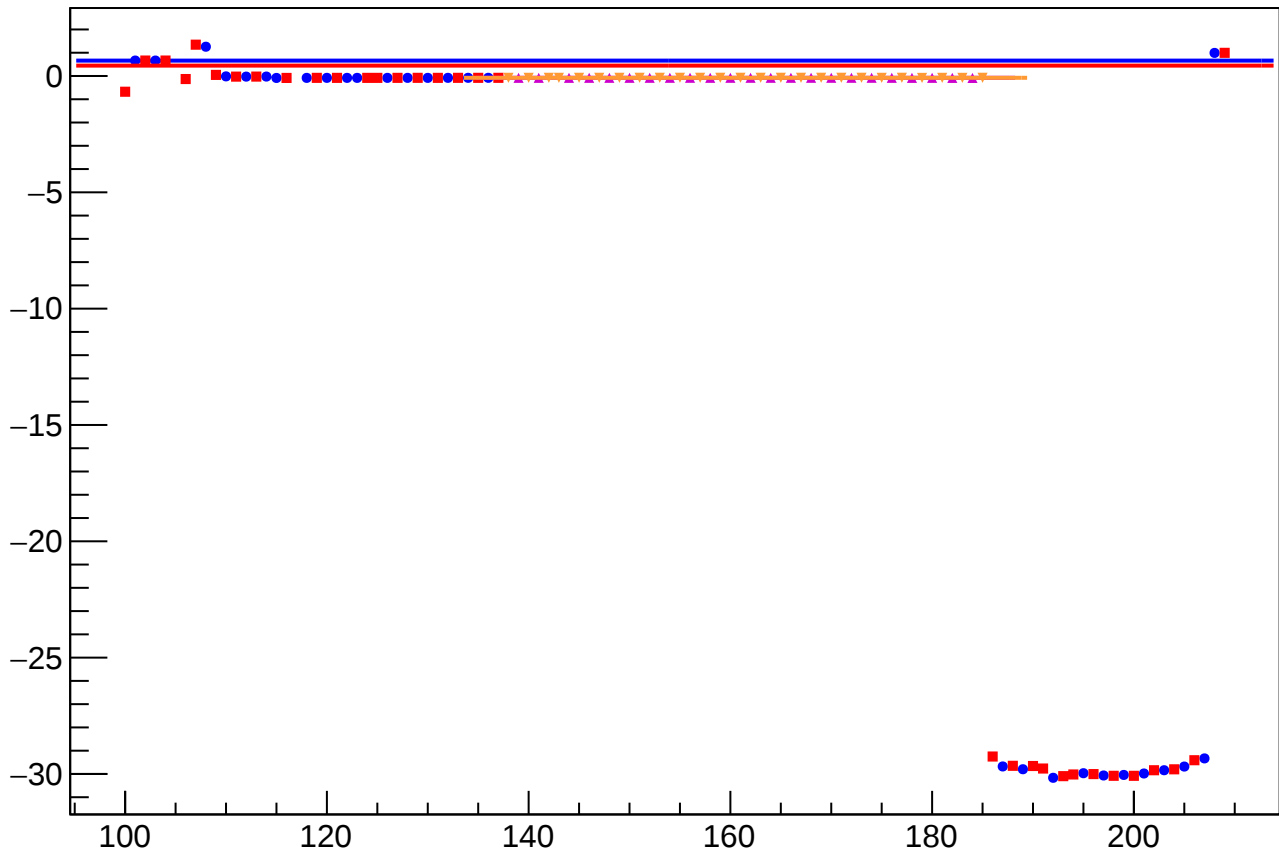
yield_cav4dX_rms vs Slug, Sign Corrected



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 : 25703063.1/31
 Left In: 0.009+/-0.000 χ^2/NDF :602517.2/22

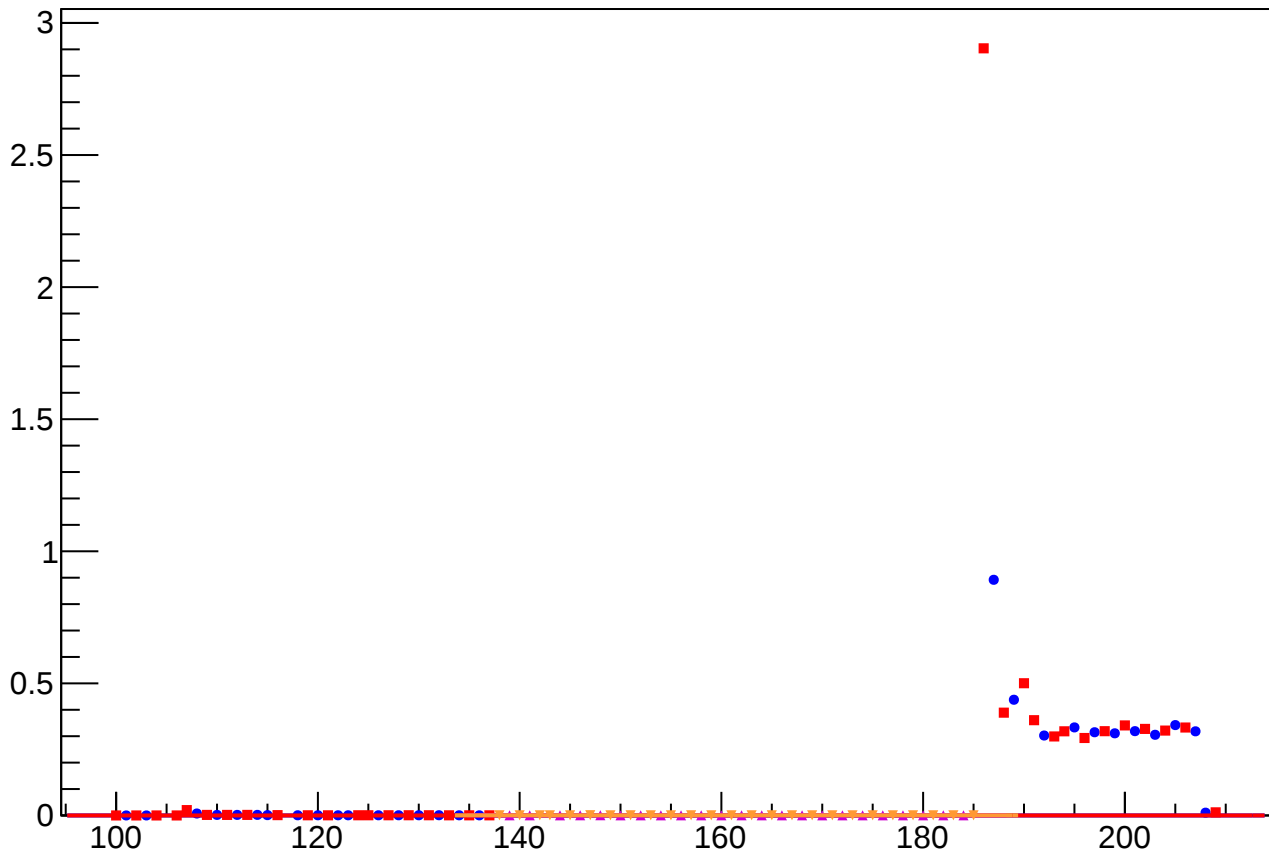
Left: 0.009+/-0.000 χ^2/NDF : 1122225.0/47
 Right: 0.000+/-0.000 χ^2/NDF : 49117886.5/59
 In: 0.000+/-0.000 χ^2/NDF :50832053.2/50
 Out: 0.000+/-0.000 χ^2/NDF :54646795.0/56
 All: 0.000+/-0.000 χ^2/NDF : 105479314.3/107

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 : 474124981593974.8
Right Out: 0.446+/-0.000	χ^2/NDF : 405492002806383.4/31	In: 0.647+/-0.000	χ^2/NDF : 33760507012842.9/50
Left In: -0.077+/-0.000	χ^2/NDF : 110762924.1/22	Out: 0.436+/-0.000	χ^2/NDF : 420653136380507.1/5
		All: 0.537+/-0.000	χ^2/NDF : 51596947736114

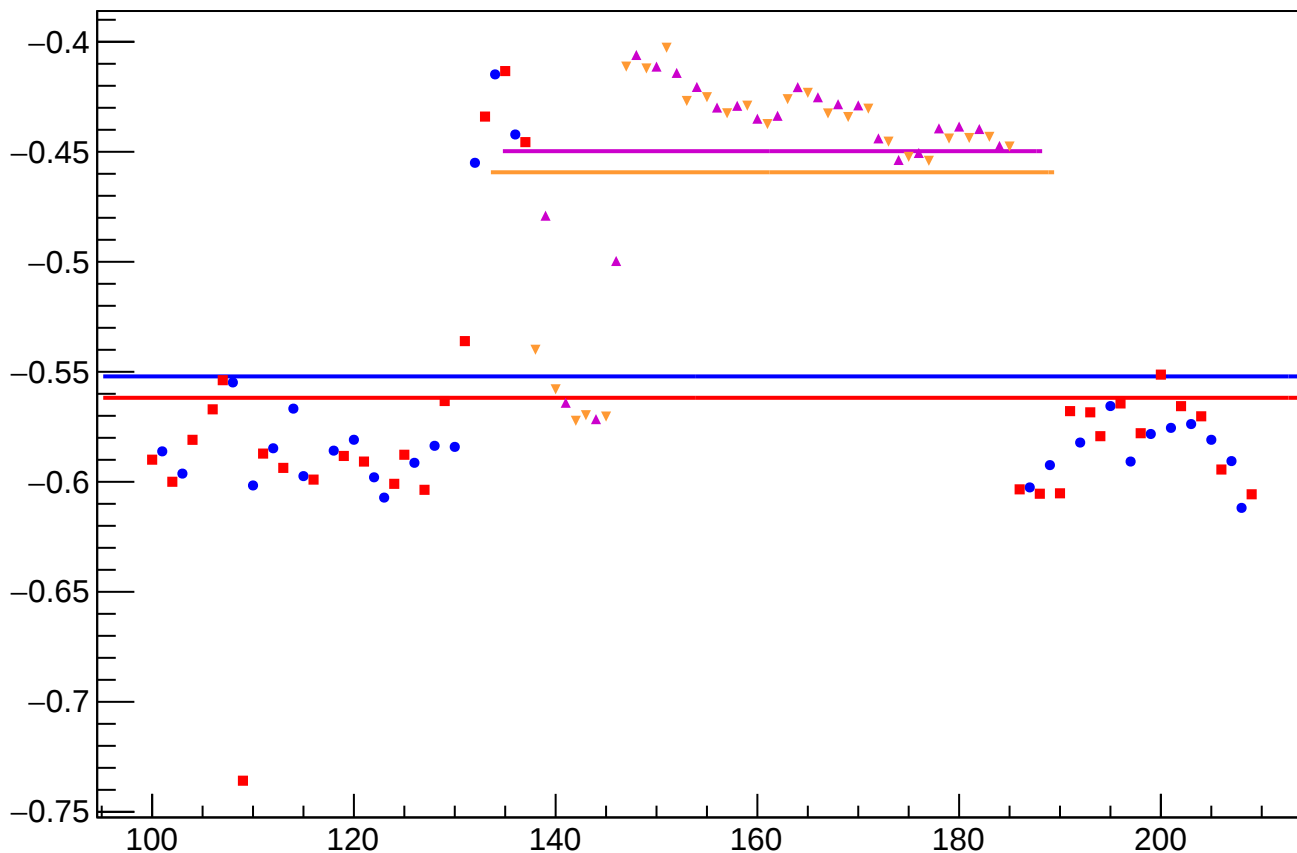
yield_cav4dY_rms vs Slug, Sign Corrected



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 : 26281074.3/31
 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 : 51123452.9/59
 In: 0.000+/-0.000 χ^2/NDF :55572280.0/50
 Out: 0.000+/-0.000 χ^2/NDF :58899707.7/56
 All: 0.000+/-0.000 χ^2/NDF : 114472324.1/107

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: -0.562+/-0.000 χ^2/NDF : 66588250.1/31

Left In: -0.450+/-0.000 χ^2/NDF : 76117957.8/22

Left: -0.455+/-0.000 χ^2/NDF : 191493218.8/47

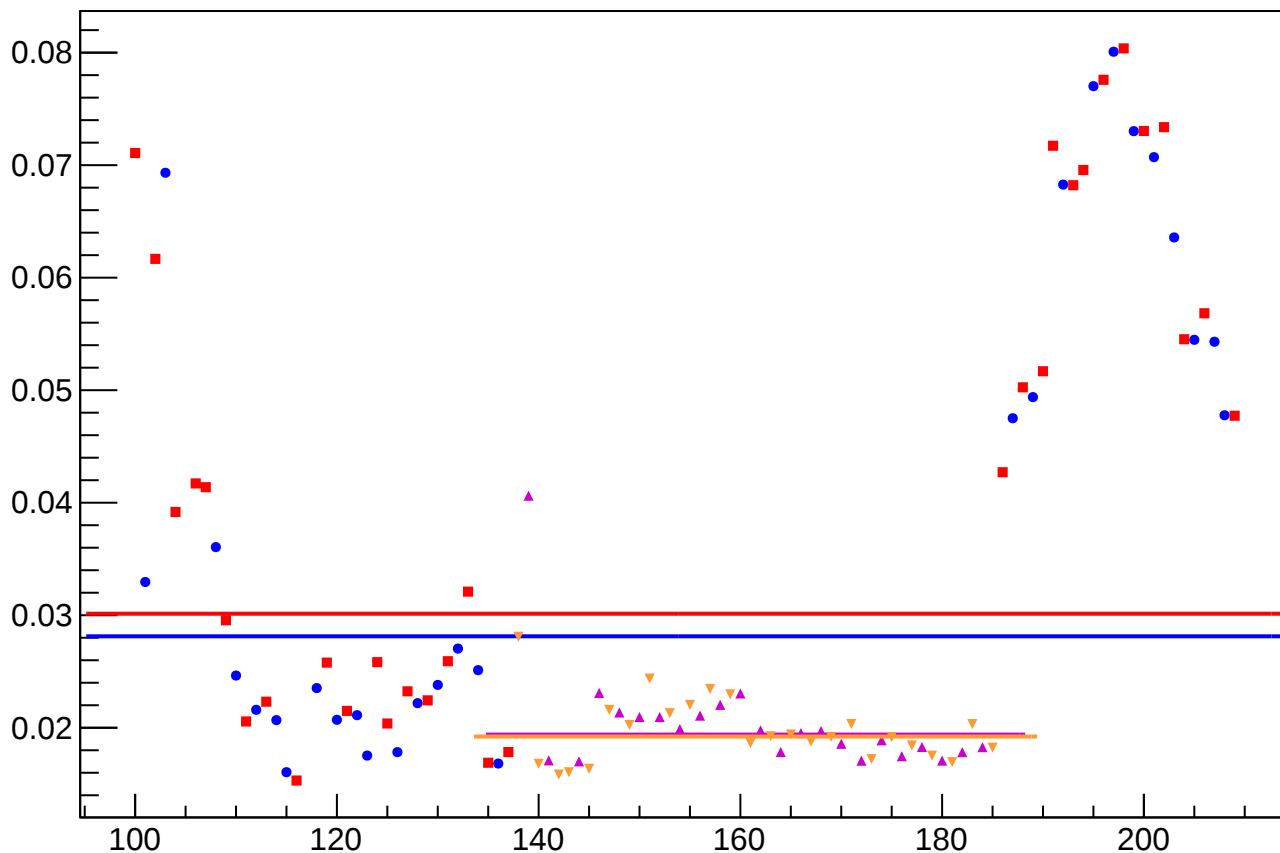
Right: -0.557+/-0.000 χ^2/NDF : 116559595.8/59

In: -0.476+/-0.000 χ^2/NDF : 223541299.6/50

Out: -0.483+/-0.000 χ^2/NDF : 278233776.4/56

All: -0.479+/-0.000 χ^2/NDF : 503239494.1/10

yield_bpm4aX_rms vs Slug, Sign Corrected



Right In: 0.028+/-0.000 χ^2/NDF : 6424984.7/27

Left Out: 0.019+/-0.000 χ^2/NDF : 501711.6/24

Right Out: 0.030+/-0.000 χ^2/NDF : 6636155.3/31

Left In: 0.019+/-0.000 χ^2/NDF : 626443.5/22

Left: 0.019+/-0.000 χ^2/NDF : 1129330.7/47

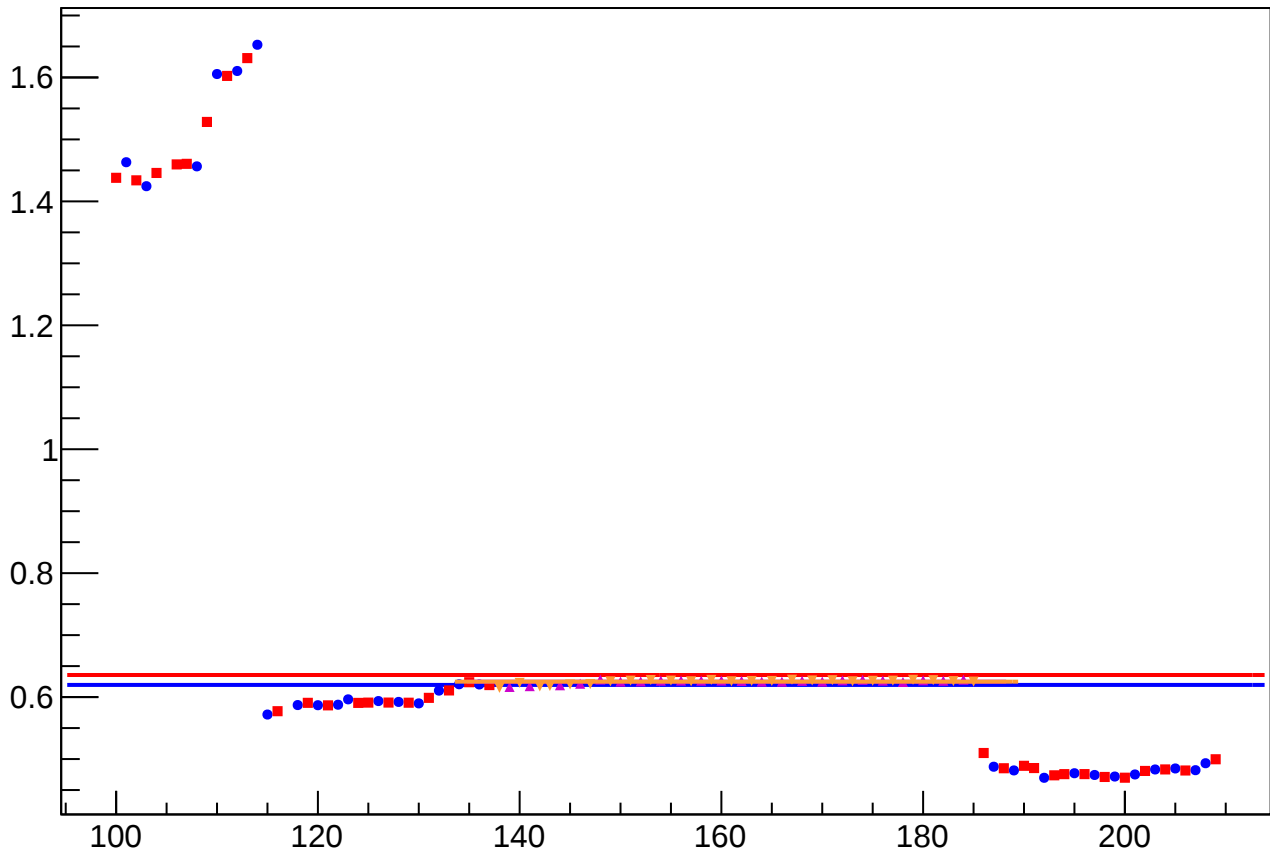
Right: 0.029+/-0.000 χ^2/NDF : 13110732.8/59

In: 0.022+/-0.000 χ^2/NDF : 8478743.9/50

Out: 0.022+/-0.000 χ^2/NDF : 9361024.9/56

All: 0.022+/-0.000 χ^2/NDF : 17841043.7/107

yield_bpm4aY_mean vs Slug, Sign Corrected



Right In: 0.620+/-0.000 χ^2/NDF : 5073804265.9/27

Left Out: 0.625+/-0.000 χ^2/NDF :1445169.1/24

Right Out: 0.636+/-0.000 χ^2/NDF : 6115204596.4/31

Left In: 0.625+/-0.000 χ^2/NDF :1143954.1/22

Left: 0.625+/-0.000 χ^2/NDF : 2589565.7/47

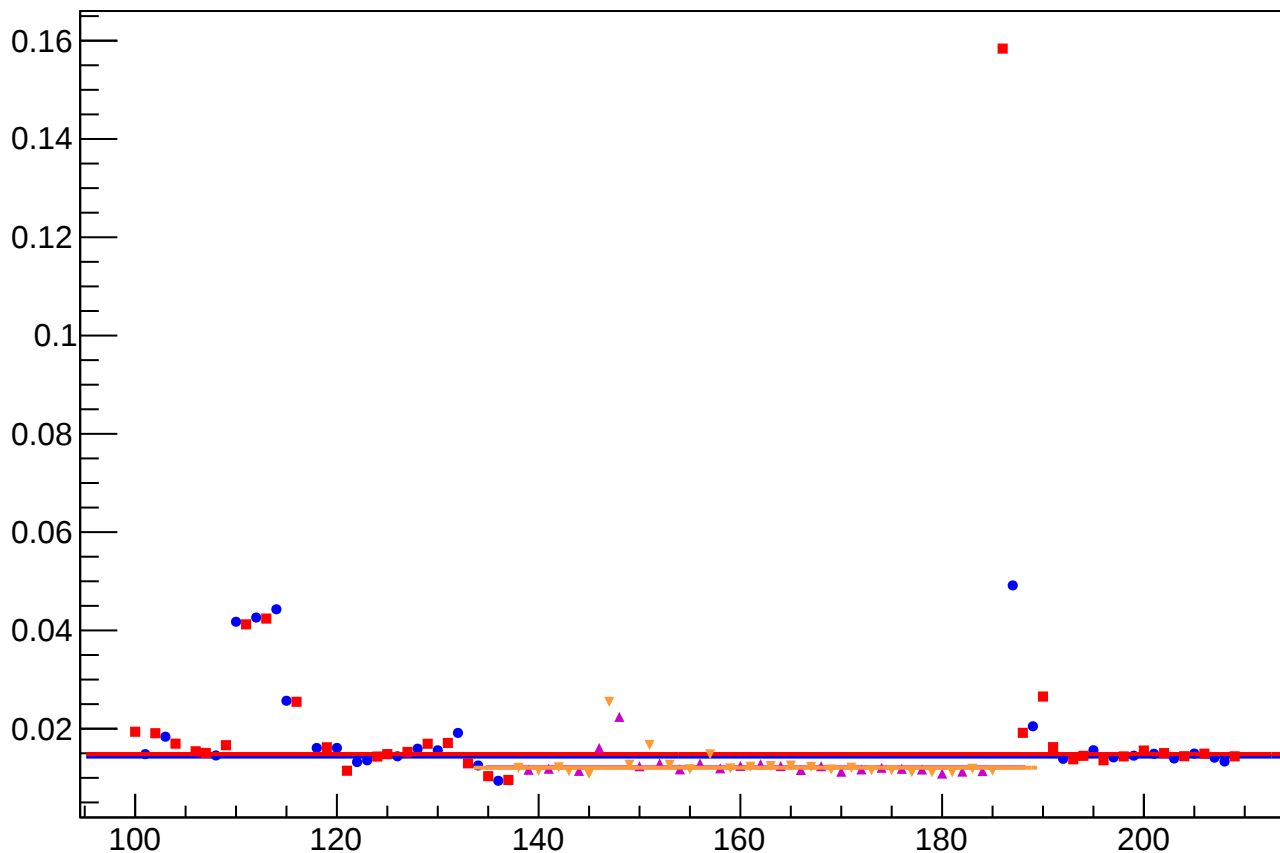
Right: 0.628+/-0.000 χ^2/NDF : 11197116076.7/59

In: 0.623+/-0.000 χ^2/NDF :5076038313.8/50

Out: 0.629+/-0.000 χ^2/NDF :6121448570.8/56

All: 0.626+/-0.000 χ^2/NDF : 11200345992.7/111

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: 2080728.3/31

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

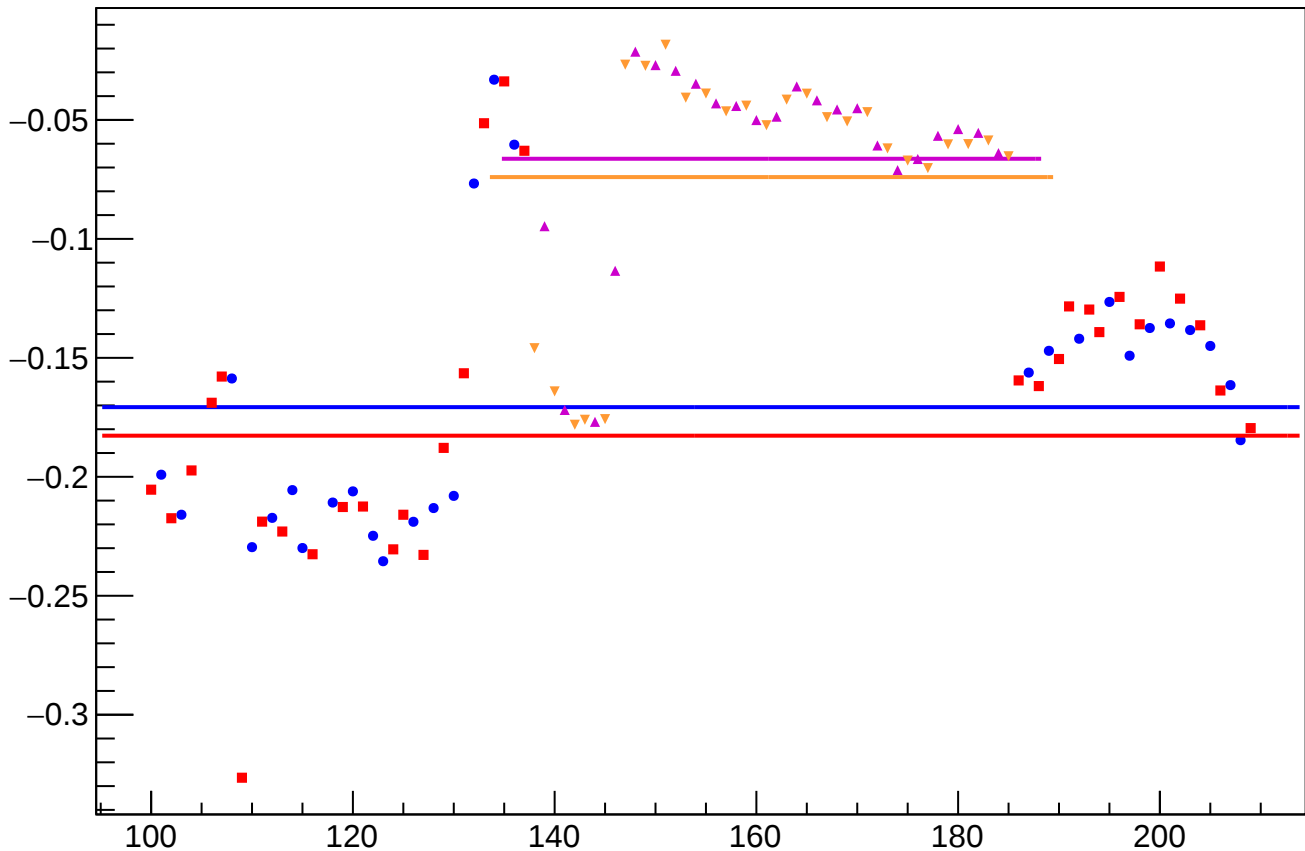
Right: 0.015 $\pm$ 0.000 χ^2 /NDF: 3746165.7/59

In: 0.013 $\pm$ 0.000 χ^2 /NDF:2525611.5/50

Out: 0.013 $\pm$ 0.000 χ^2 /NDF:3381084.2/56

All: 0.013 $\pm$ 0.000 χ^2 /NDF: 5908737.3/107

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 : 86386618.7/31

Left In: -0.066+/-0.000 χ^2/NDF :76243051.8/22

Left: -0.070+/-0.000 χ^2/NDF : 185076997.5/47

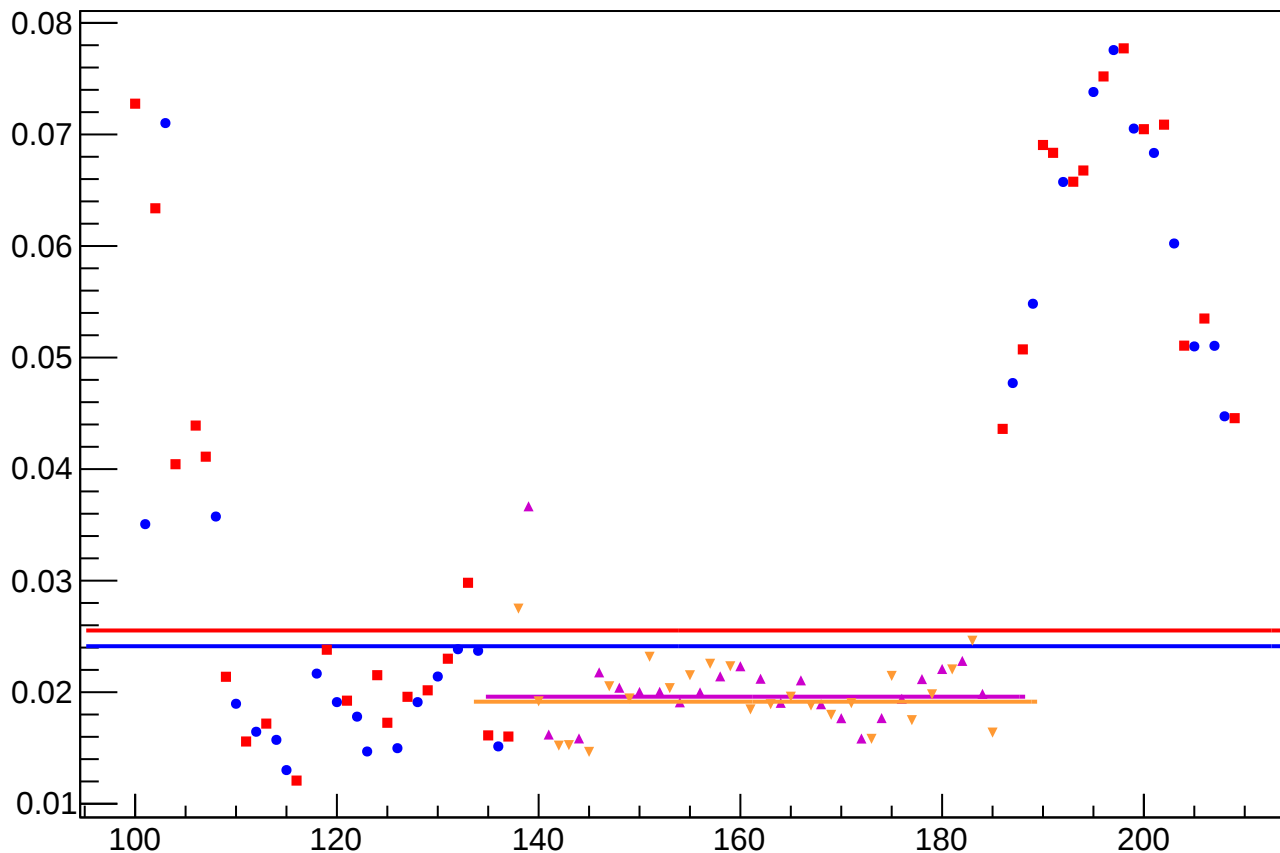
Right: -0.177+/-0.000 χ^2/NDF : 155954175.7/59

In: -0.098+/-0.000 χ^2/NDF :267252054.7/50

Out: -0.104+/-0.000 χ^2/NDF :329153223.4/56

All: -0.101+/-0.000 χ^2/NDF : 597496449.9/10

yield_bpm4eX_rms vs Slug, Sign Corrected



Right In: 0.024 $\pm$ 0.000 χ^2 /NDF: 7491218.4/27

Left Out: 0.019 $\pm$ 0.000 χ^2 /NDF:641277.0/24

Right Out: 0.026 $\pm$ 0.000 χ^2 /NDF: 8090172.0/31

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

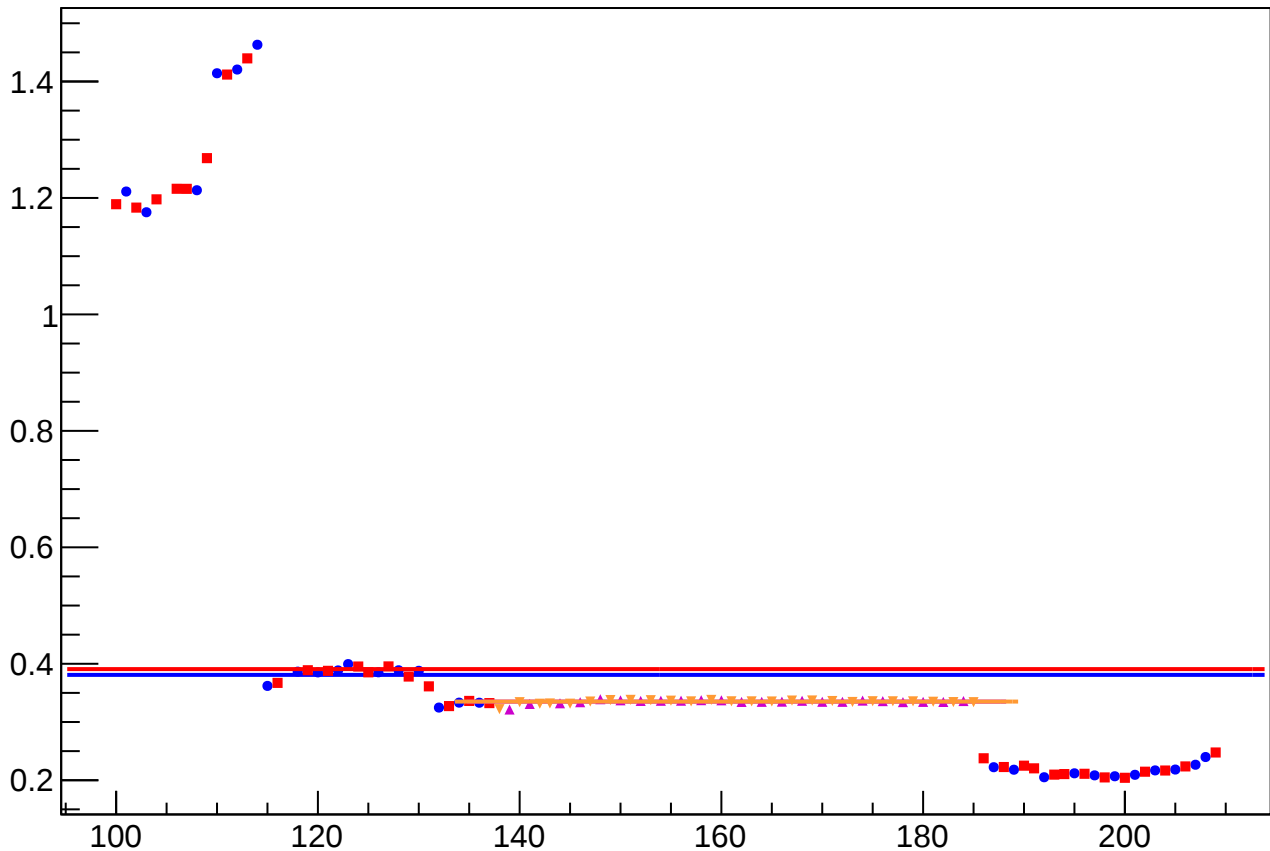
Right: 0.025 $\pm$ 0.000 χ^2 /NDF: 15613206.7/59

In: 0.021 $\pm$ 0.000 χ^2 /NDF:8575148.2/50

Out: 0.021 $\pm$ 0.000 χ^2 /NDF:9663511.9/56

All: 0.021 $\pm$ 0.000 χ^2 /NDF: 18238764.3/107

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: 0.391+/-0.000 χ^2/NDF : 8611087829.5/31

Left In: 0.335+/-0.000 χ^2/NDF :1202194.8/22

Left: 0.335+/-0.000 χ^2/NDF : 2356931.1/47

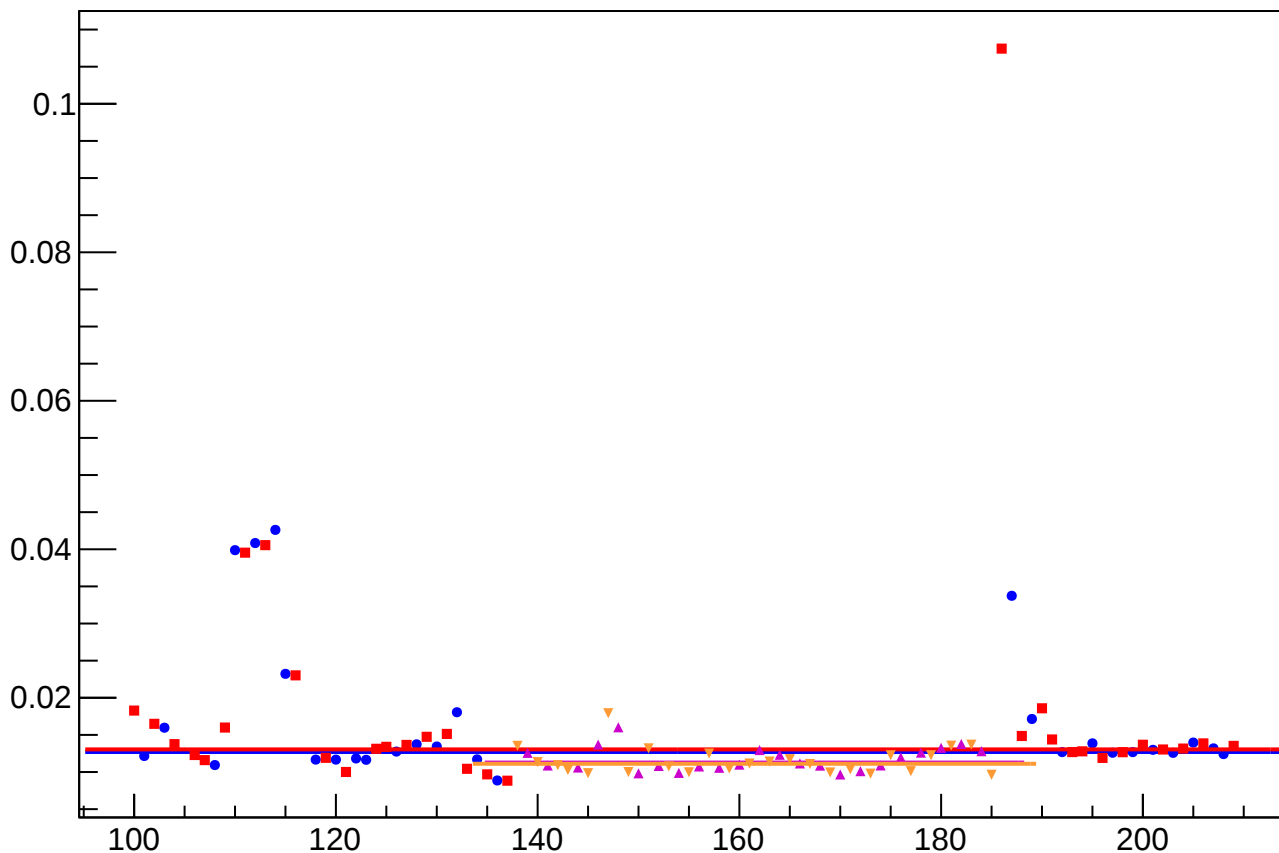
Right: 0.386+/-0.000 χ^2/NDF : 16107123126.0/59

In: 0.353+/-0.000 χ^2/NDF :7598034440.5/50

Out: 0.356+/-0.000 χ^2/NDF :8773536847.7/56

All: 0.354+/-0.000 χ^2/NDF : 16372513062.2/112

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 : 1946181.7/31

Left In: 0.011+/-0.000 χ^2/NDF : 502455.5/22

Left: 0.011+/-0.000 χ^2/NDF : 1113465.5/47

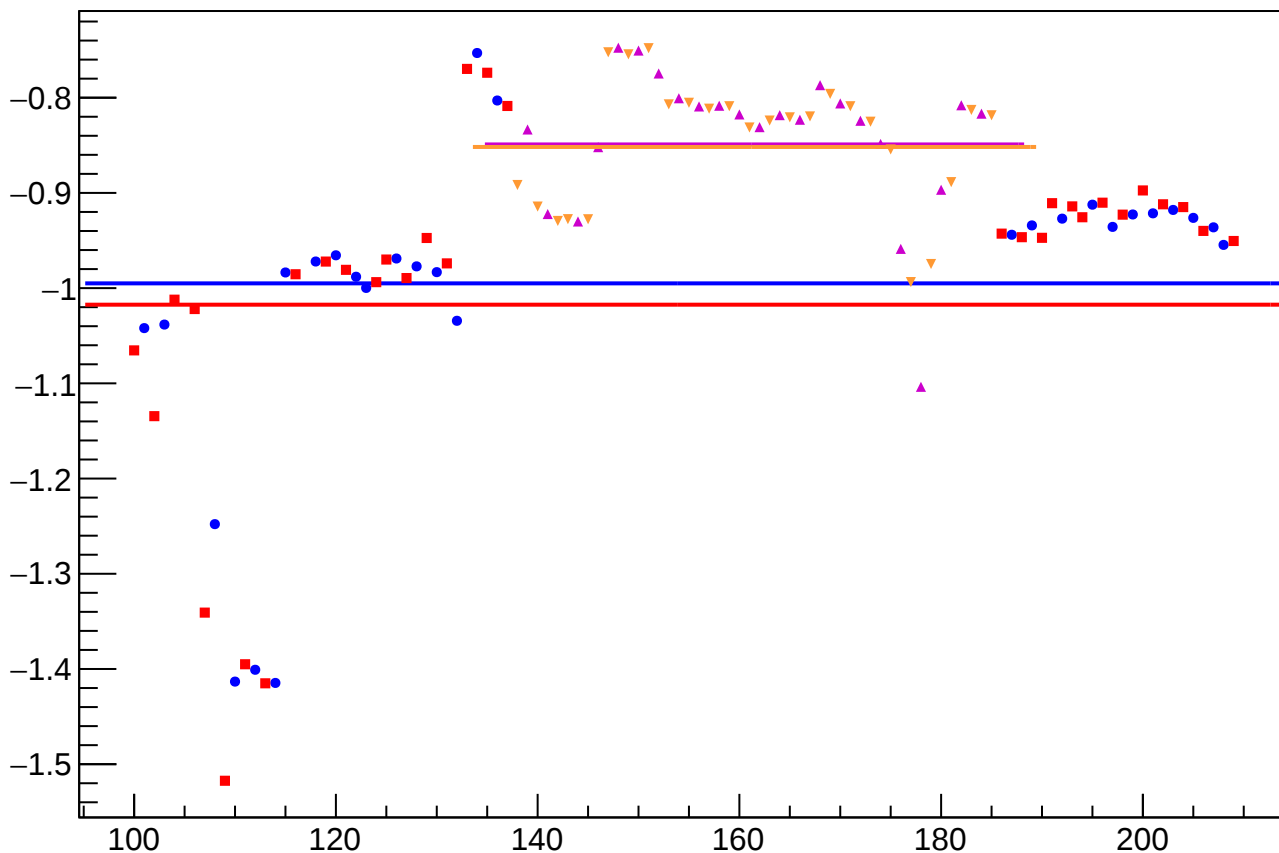
Right: 0.013+/-0.000 χ^2/NDF : 3481265.9/59

In: 0.012+/-0.000 χ^2/NDF : 2230763.6/50

Out: 0.012+/-0.000 χ^2/NDF : 2942296.4/56

All: 0.012+/-0.000 χ^2/NDF : 5173061.2/107

yield_bpm4acX_mean vs Slug, Sign Corrected



Right In: -0.995 $\pm$ 0.000 χ^2 /NDF: 404129191.2/27

Left Out: -0.852 $\pm$ 0.000 χ^2 /NDF:189103962.4/24

Right Out: -1.017 $\pm$ 0.000 χ^2 /NDF: 559267559.0/31

Left In: -0.849 $\pm$ 0.000 χ^2 /NDF:256391274.4/22

Left: -0.850 $\pm$ 0.000 χ^2 /NDF: 445636655.2/47

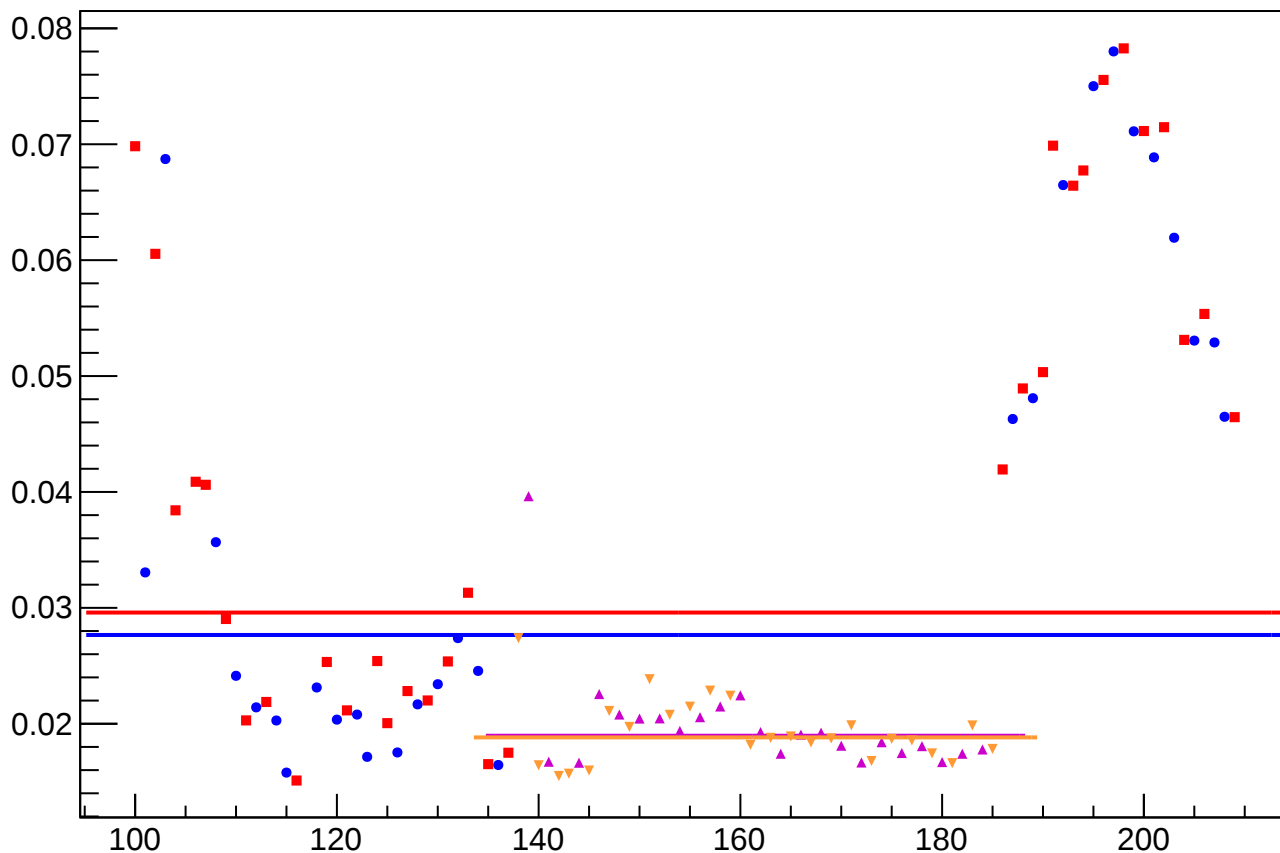
Right: -1.006 $\pm$ 0.000 χ^2 /NDF: 966605302.0/59

In: -0.886 $\pm$ 0.000 χ^2 /NDF:867445597.2/50

Out: -0.890 $\pm$ 0.000 χ^2 /NDF:1014523650.3/56

All: -0.888 $\pm$ 0.000 χ^2 /NDF: 1882506720.3/111

yield_bpm4acX_rms vs Slug, Sign Corrected



Right In: 0.028 $\pm$ 0.000 χ^2 /NDF: 6382084.7/27

Left Out: 0.019 $\pm$ 0.000 χ^2 /NDF:490509.4/24

Right Out: 0.030 $\pm$ 0.000 χ^2 /NDF: 6567035.1/31

Left In: 0.019 $\pm$ 0.000 χ^2 /NDF:615173.8/22

Left: 0.019 $\pm$ 0.000 χ^2 /NDF: 1106521.0/47

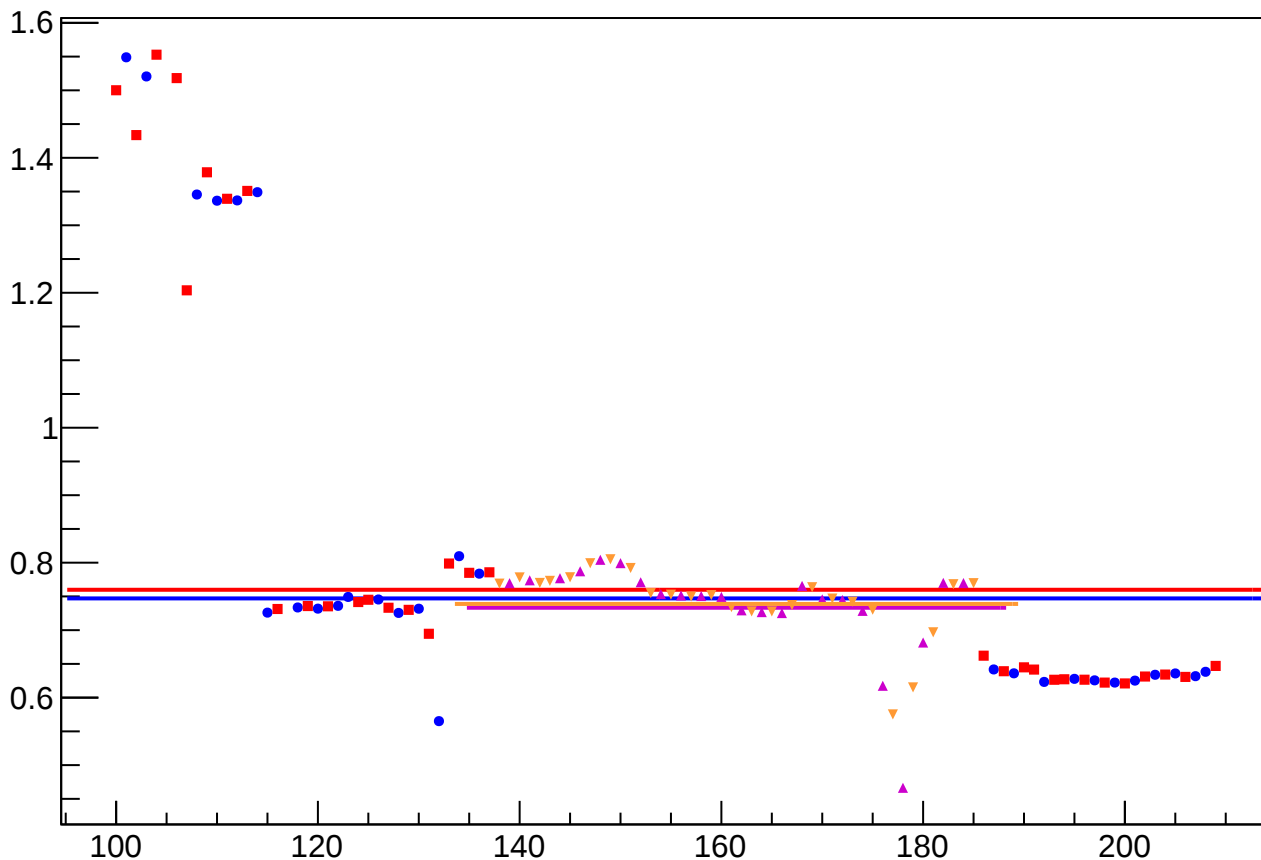
Right: 0.029 $\pm$ 0.000 χ^2 /NDF: 12996980.6/59

In: 0.021 $\pm$ 0.000 χ^2 /NDF:8466449.3/50

Out: 0.021 $\pm$ 0.000 χ^2 /NDF:9308388.7/56

All: 0.021 $\pm$ 0.000 χ^2 /NDF: 17776464.4/107

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: 0.760 $\pm$ 0.000 χ^2 /NDF: 3806805472.3/31

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

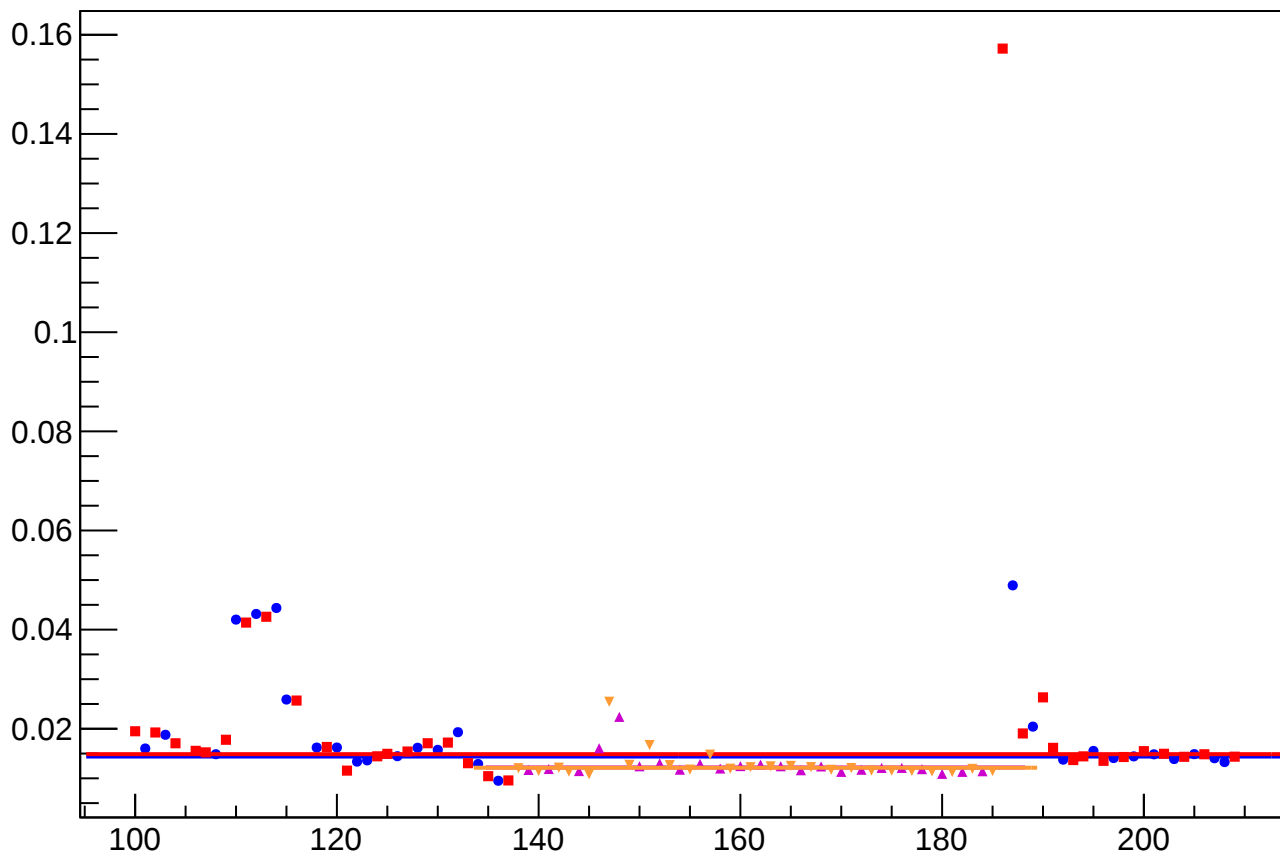
Right: 0.753 $\pm$ 0.000 χ^2 /NDF: 7291820903.8/59

In: 0.738 $\pm$ 0.000 χ^2 /NDF:4057123421.1/50

Out: 0.746 $\pm$ 0.000 χ^2 /NDF:4158019857.1/56

All: 0.742 $\pm$ 0.000 χ^2 /NDF: 8220781341.8/10

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: 2084796.2/31

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

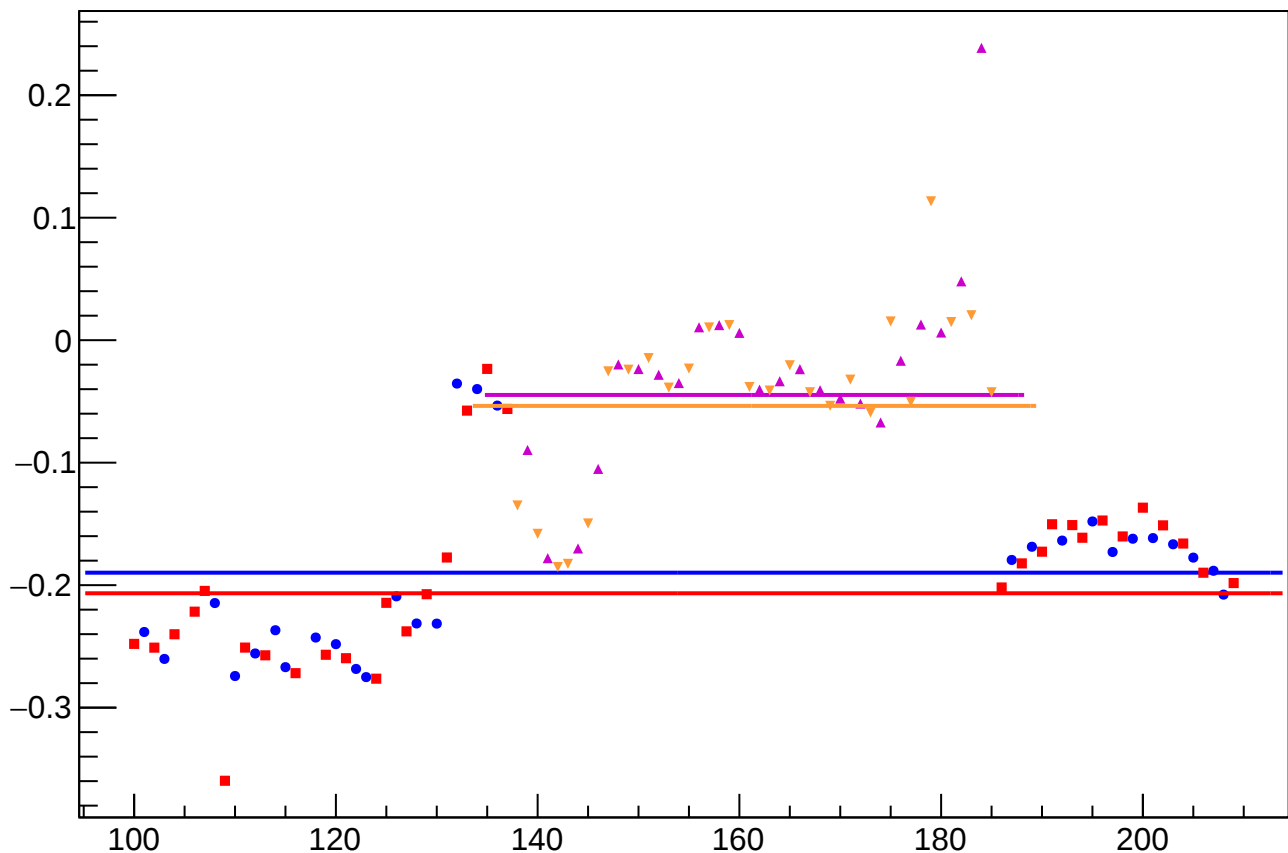
Right: 0.015 $\pm$ 0.000 χ^2 /NDF: 3749888.9/59

In: 0.013 $\pm$ 0.000 χ^2 /NDF:2522517.7/50

Out: 0.013 $\pm$ 0.000 χ^2 /NDF:3341424.8/56

All: 0.013 $\pm$ 0.000 χ^2 /NDF: 5865957.4/107

yield_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -0.190 $\pm$ 0.000 χ^2 /NDF: 107260727.9/27

Left Out: -0.054 $\pm$ 0.000 χ^2 /NDF: 167834173.6/24

Right Out: -0.207 $\pm$ 0.000 χ^2 /NDF: 114703772.5/31

Left In: -0.045 $\pm$ 0.000 χ^2 /NDF: 127192425.2/22

Left: -0.049 $\pm$ 0.000 χ^2 /NDF: 296566503.6/47

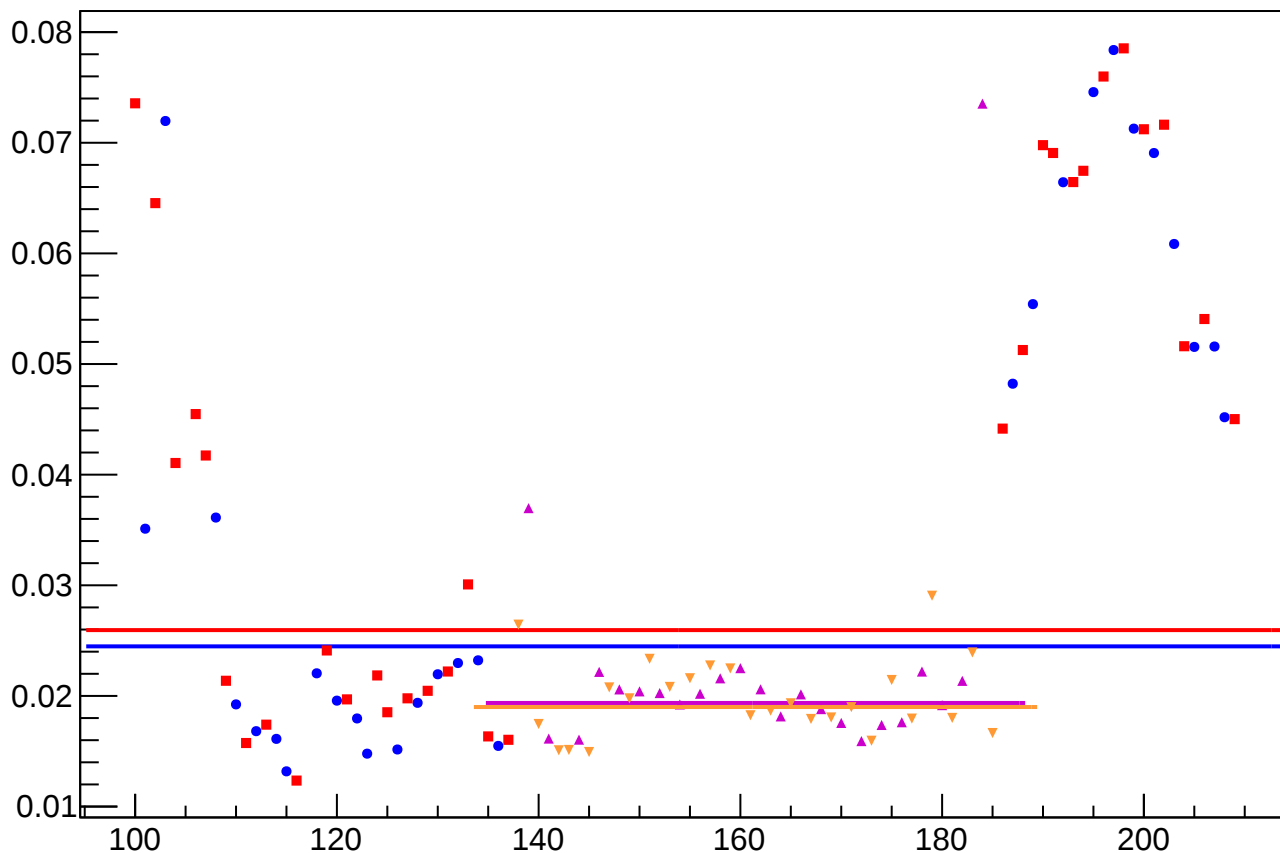
Right: -0.198 $\pm$ 0.000 χ^2 /NDF: 224161278.1/59

In: -0.088 $\pm$ 0.000 χ^2 /NDF: 466490791.2/50

Out: -0.096 $\pm$ 0.000 χ^2 /NDF: 543092459.5/56

All: -0.092 $\pm$ 0.000 χ^2 /NDF: 1011194912.0/1

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: 8038940.9/31

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

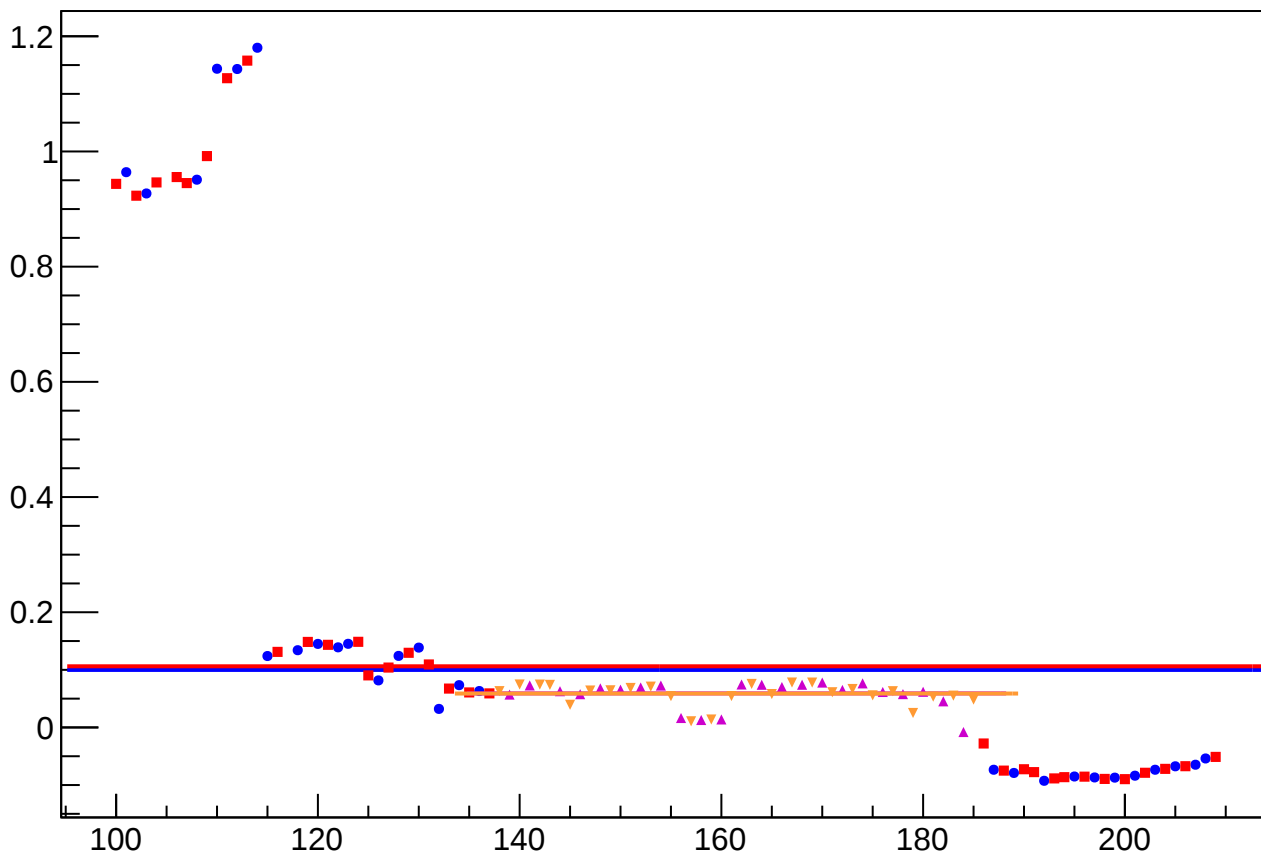
Right: 0.025 $\pm$ 0.000 χ^2 /NDF: 15505964.9/59

In: 0.021 $\pm$ 0.000 χ^2 /NDF: 8868459.2/50

Out: 0.021 $\pm$ 0.000 χ^2 /NDF: 9815808.8/56

All: 0.021 $\pm$ 0.000 χ^2 /NDF: 18684284.7/107

yield_bpm4ecY_mean vs Slug, Sign Corrected



Right In: 0.100+/-0.000

χ^2/NDF : 8093261863.7/27

Left: 0.059+/-0.000 χ^2/NDF : 105343775.2/47

Right: 0.103+/-0.000 χ^2/NDF : 17185470140.8/59

Left Out: 0.059+/-0.000

χ^2/NDF : 46821236.8/24

In: 0.074+/-0.000 χ^2/NDF : 8236832098.9/50

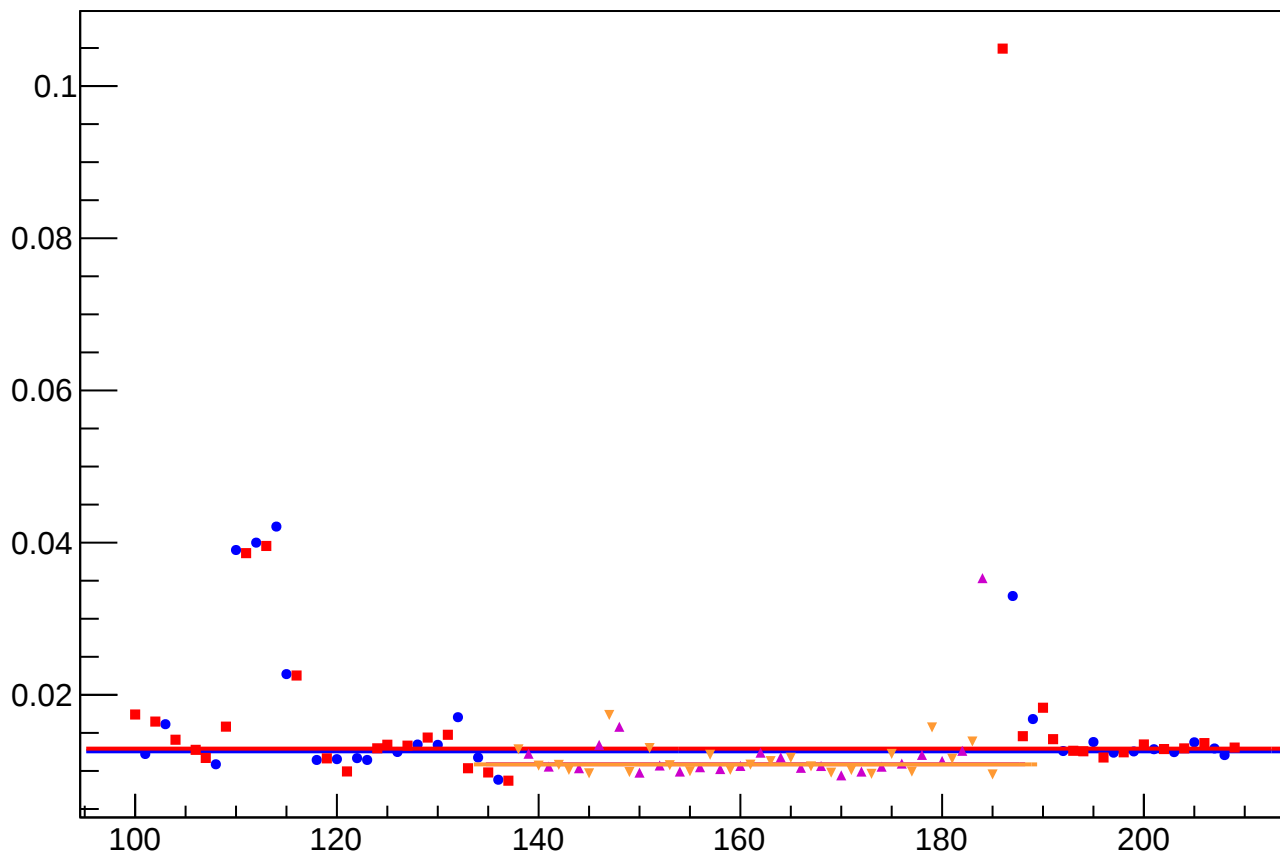
Right Out: 0.106+/-0.000 χ^2/NDF : 9090560362.1/31

Out: 0.076+/-0.000 χ^2/NDF : 9255568106.4/56

Left In: 0.059+/-0.000 χ^2/NDF : 58518655.0/22

All: 0.075+/-0.000 χ^2/NDF : 17492746306.1/13

yield_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 1490648.8/27

Left Out: 0.011+/-0.000 χ^2/NDF :604787.9/24

Right Out: 0.013+/-0.000 χ^2/NDF : 1898595.8/31

Left In: 0.011+/-0.000 χ^2/NDF :530077.5/22

Left: 0.011+/-0.000 χ^2/NDF : 1134994.9/47

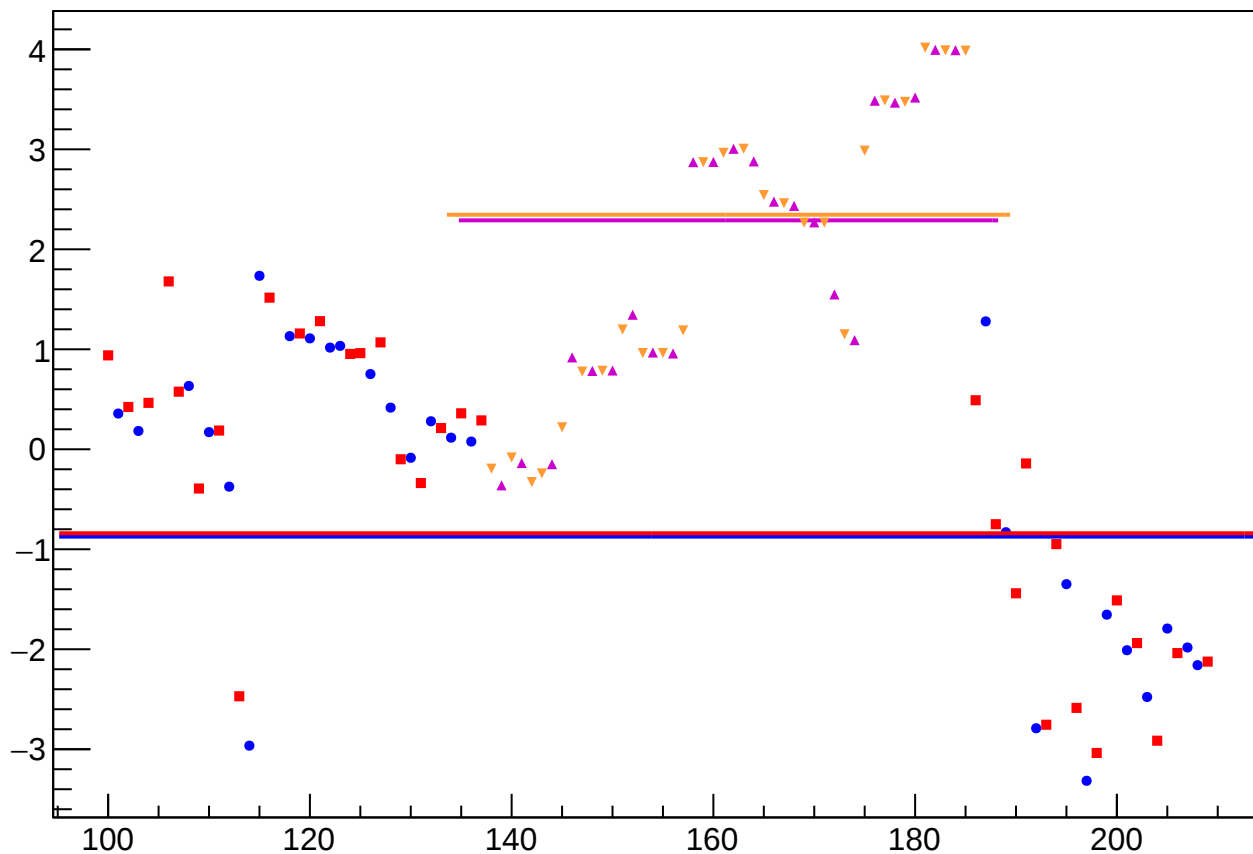
Right: 0.013+/-0.000 χ^2/NDF : 3399514.8/59

In: 0.012+/-0.000 χ^2/NDF :2312520.6/50

Out: 0.012+/-0.000 χ^2/NDF :2956351.8/56

All: 0.012+/-0.000 χ^2/NDF : 5270810.0/107

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: -0.840 ± 0.000 $\chi^2/\text{NDF}: 8098051848.7/31$

Left In: 2.290 ± 0.000 $\chi^2/\text{NDF}: 60875537647.3/22$

Left: 2.318 ± 0.000 $\chi^2/\text{NDF}: 124438674298.4/47$

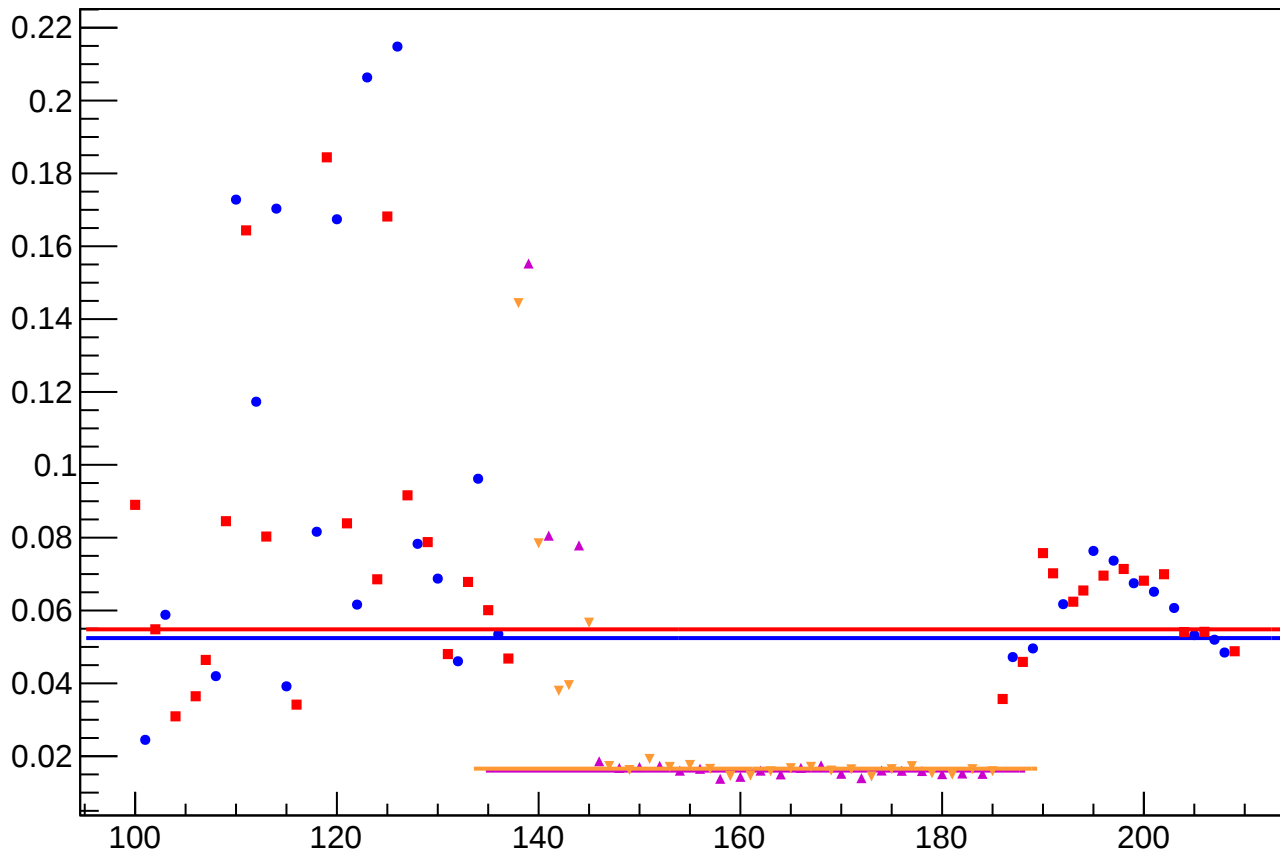
Right: -0.856 ± 0.000 $\chi^2/\text{NDF}: 14862517380.3/59$

In: 2.072 ± 0.000 $\chi^2/\text{NDF}: 103342437621.5/50$

Out: 2.114 ± 0.000 $\chi^2/\text{NDF}: 109196293691.2/56$

All: 2.093 ± 0.000 $\chi^2/\text{NDF}: 212588491930.6$

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 : 2859429.5/31

Left In: 0.016 ± 0.000 χ^2/NDF : 2394376.5/22

Left: 0.016 ± 0.000 χ^2/NDF : 5030430.5/47

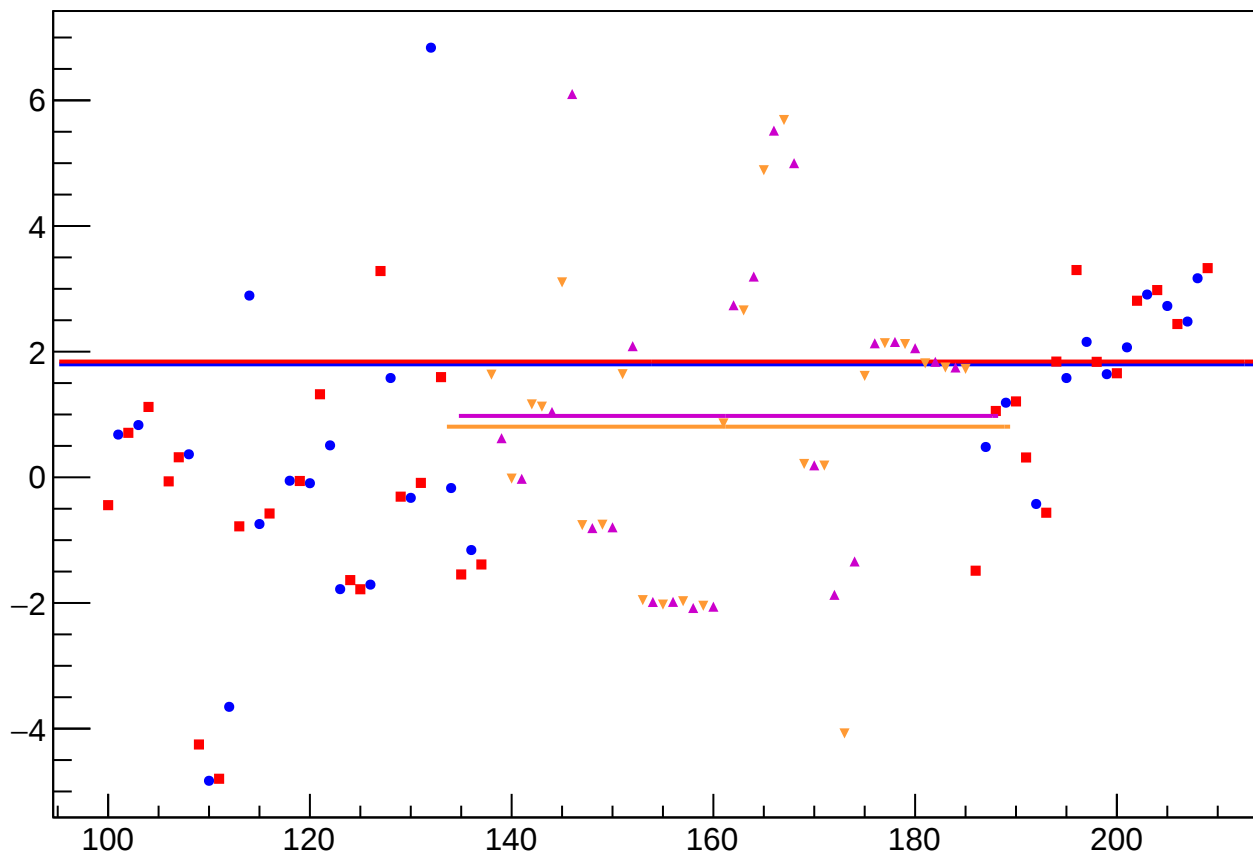
Right: 0.054 ± 0.000 χ^2/NDF : 6390270.6/59

In: 0.019 ± 0.000 χ^2/NDF : 15350985.2/50

Out: 0.019 ± 0.000 χ^2/NDF : 16321605.2/56

All: 0.019 ± 0.000 χ^2/NDF : 31709387.3/107

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: 1.821+/-0.000

χ^2/NDF : 76365605526.9/59

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: 1.843+/-0.000

χ^2/NDF : 39391902013.6/31

Out: 1.037+/-0.000

χ^2/NDF : 567253399128.3/56

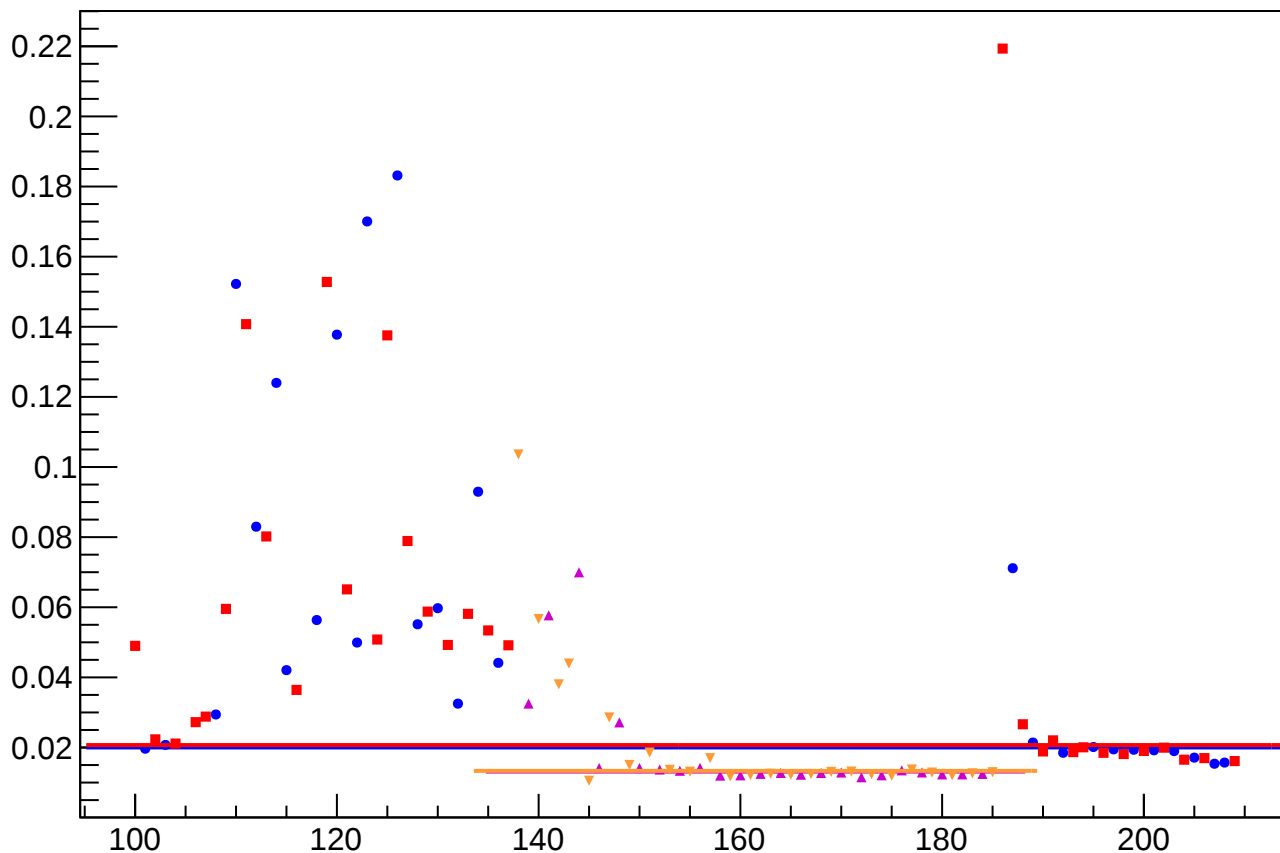
Left In: 0.977+/-0.000

χ^2/NDF : 568209676597.4/22

All: 1.097+/-0.000

χ^2/NDF : 1185729984900.

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 : 5143708.4/31

Left In: 0.013+/-0.000 χ^2/NDF :1946693.6/22

Left: 0.013+/-0.000 χ^2/NDF : 4779900.3/47

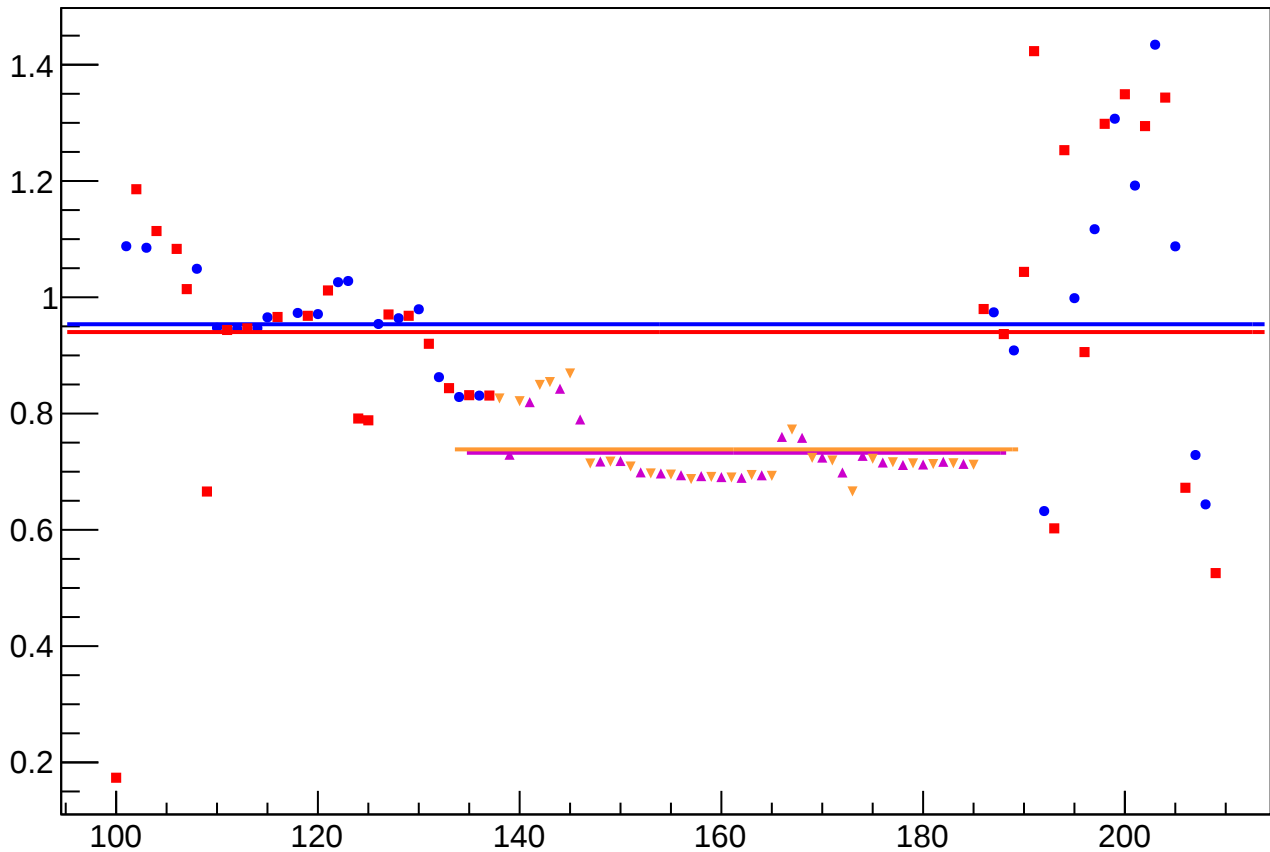
Right: 0.020+/-0.000 χ^2/NDF : 9303526.8/59

In: 0.015+/-0.000 χ^2/NDF :7856441.1/50

Out: 0.015+/-0.000 χ^2/NDF :10016329.0/56

All: 0.015+/-0.000 χ^2/NDF : 17884910.6/107

yield_bpm11X_mean vs Slug, Sign Corrected



Right In: 0.954+/-0.000 χ^2/NDF : 673420113.3/27

Left Out: 0.738+/-0.000 χ^2/NDF : 310195180.4/24

Right Out: 0.940+/-0.000 χ^2/NDF : 1128583970.9/31

Left In: 0.733+/-0.000 χ^2/NDF : 170102394.7/22

Left: 0.736+/-0.000 χ^2/NDF : 481708989.2/47

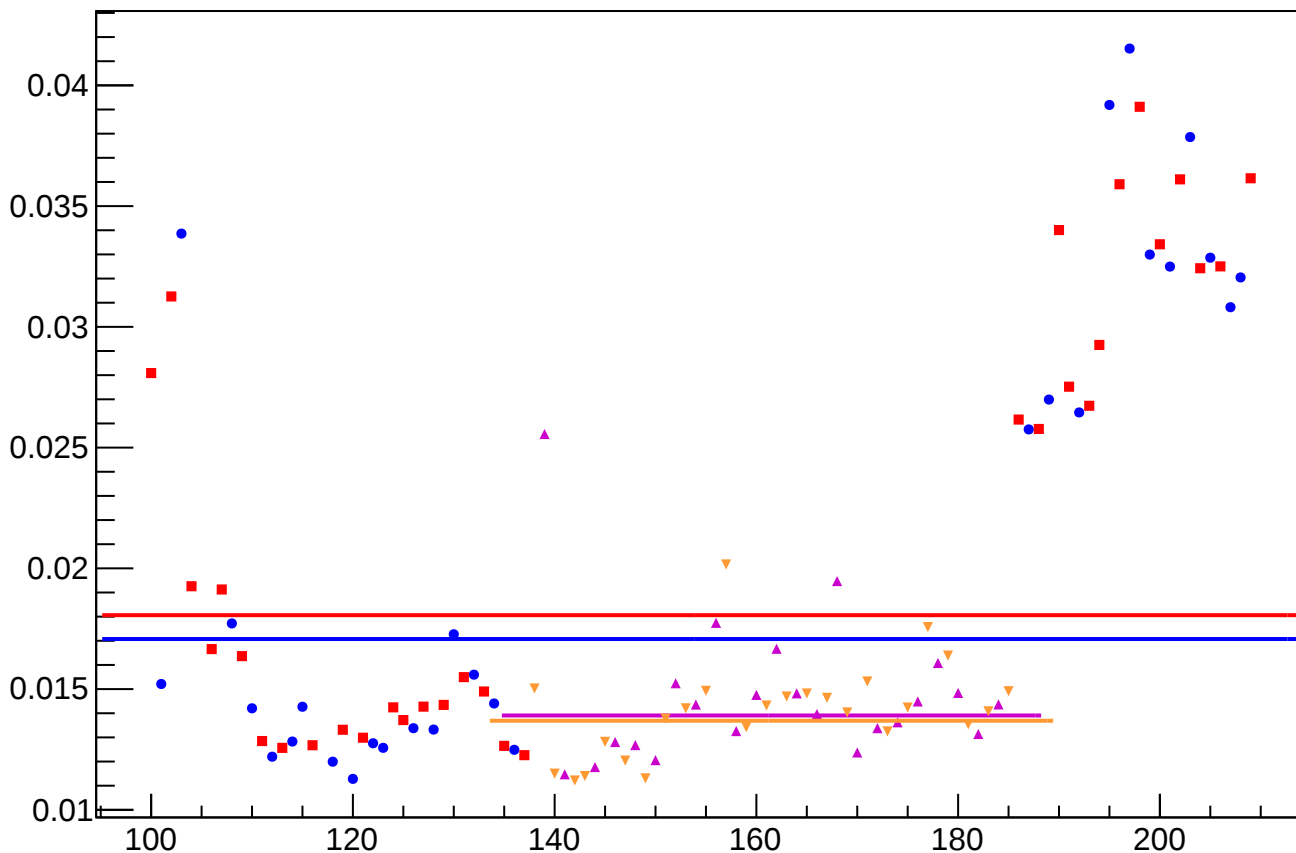
Right: 0.947+/-0.000 χ^2/NDF : 1805411882.3/59

In: 0.804+/-0.000 χ^2/NDF : 2097697449.8/50

Out: 0.800+/-0.000 χ^2/NDF : 2504430094.2/56

All: 0.802+/-0.000 χ^2/NDF : 4603112603.1/10

yield_bpm11X_rms vs Slug, Sign Corrected



Right In: 0.017 $\pm$ 0.000 χ^2/NDF : 4596193.1/27

Left Out: 0.014 $\pm$ 0.000 χ^2/NDF : 528480.6/24

Right Out: 0.018 $\pm$ 0.000 χ^2/NDF : 4324622.6/31

Left In: 0.014 $\pm$ 0.000 χ^2/NDF : 768161.9/22

Left: 0.014 $\pm$ 0.000 χ^2/NDF : 1300553.4/47

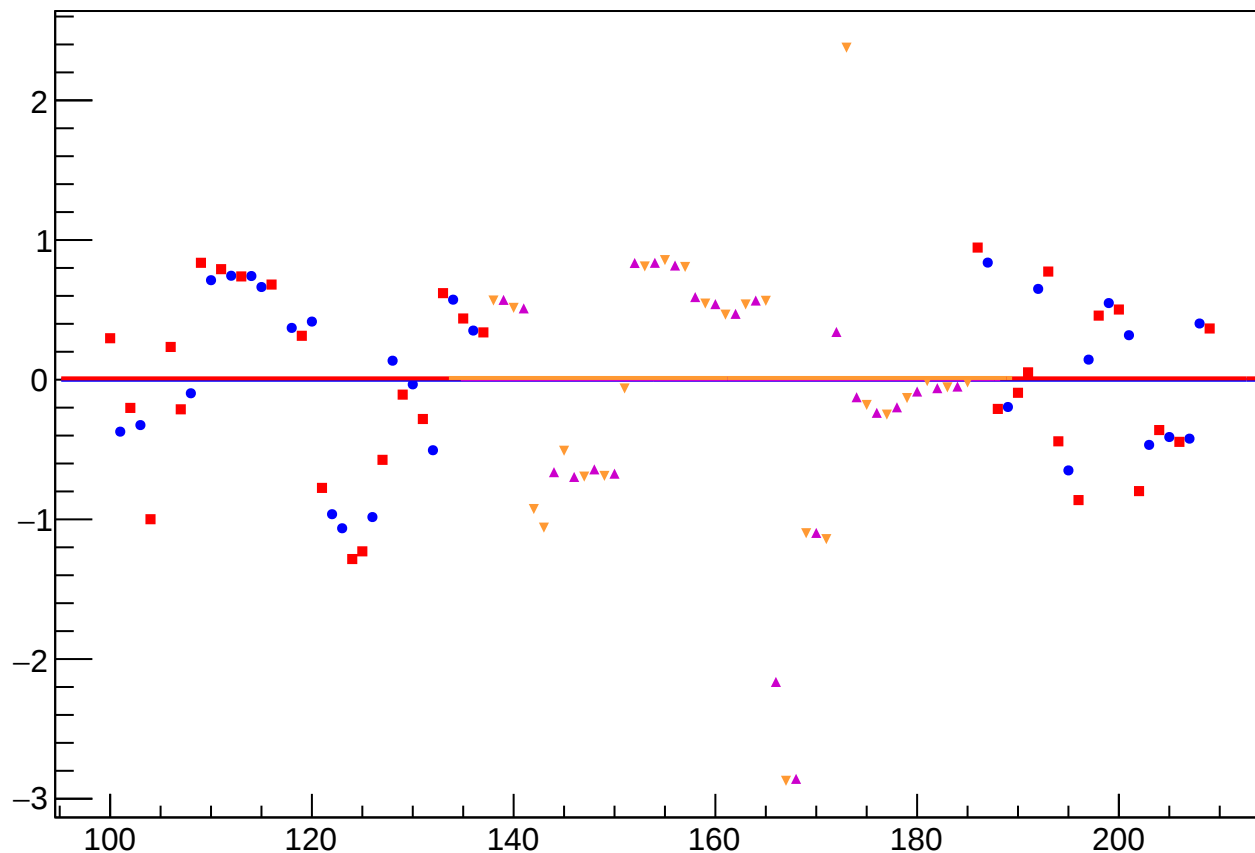
Right: 0.018 $\pm$ 0.000 χ^2/NDF : 8957502.9/59

In: 0.015 $\pm$ 0.000 χ^2/NDF : 5879045.8/50

Out: 0.015 $\pm$ 0.000 χ^2/NDF : 5852902.1/56

All: 0.015 $\pm$ 0.000 χ^2/NDF : 11732928.1/107

yield_bpm11Y_mean vs Slug, Sign Corrected



Right In: -0.001+/-0.000

χ^2/NDF : 20234740039.1/27

Left: 0.008+/-0.000 χ^2/NDF : 175214894006.3/47

Right: 0.005+/-0.000 χ^2/NDF : 50259935258.1/59

Left Out: 0.012+/-0.000

χ^2/NDF : 96383858927.1/24

In: 0.001+/-0.000 χ^2/NDF : 99061874303.7/50

Right Out: 0.010+/-0.000

χ^2/NDF : 30020851067.6/31

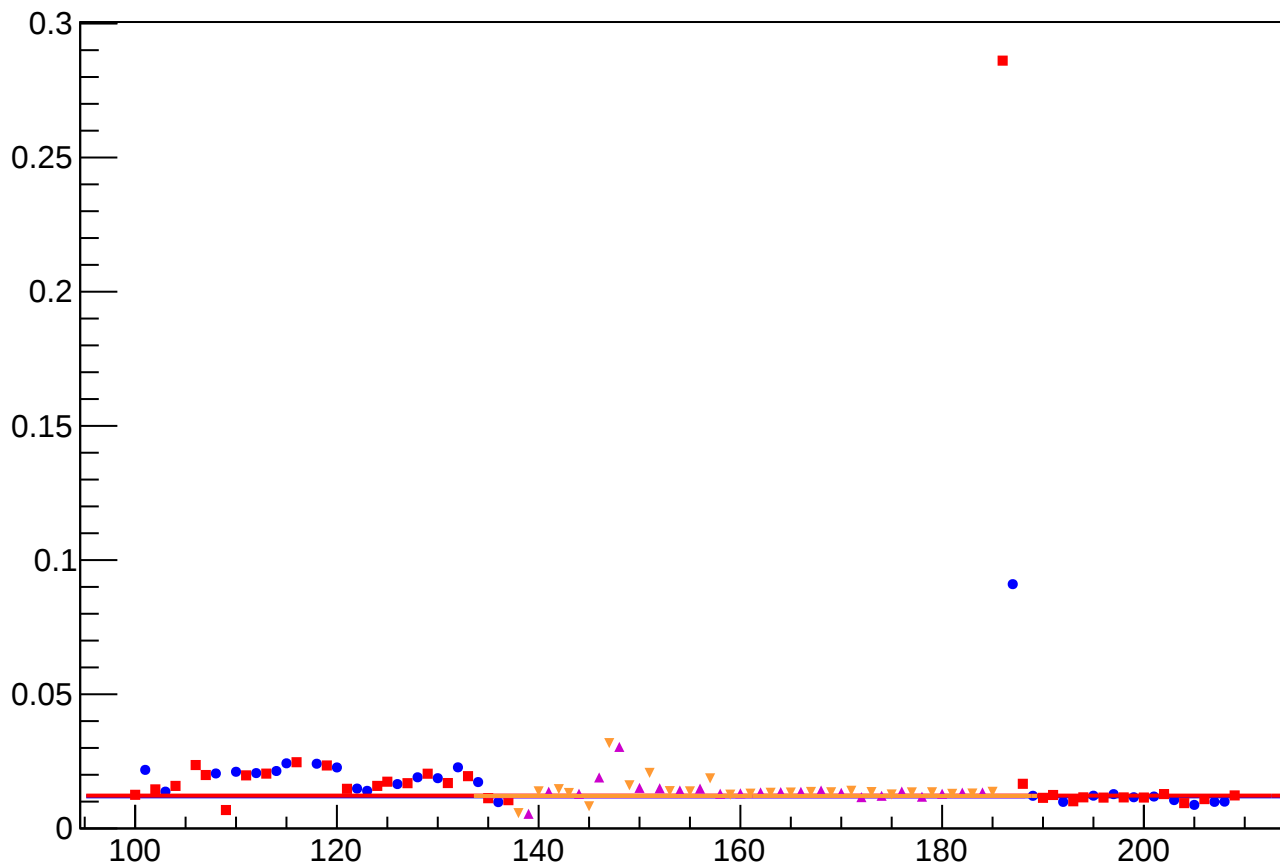
Out: 0.011+/-0.000 χ^2/NDF : 126405092588.3/56

Left In: 0.003+/-0.000

χ^2/NDF : 78826489573.0/22

All: 0.006+/-0.000 χ^2/NDF : 225475886748.7

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 : 2680003.1/31

Left In: 0.012+/-0.000 χ^2/NDF :3003502.9/22

Left: 0.012+/-0.000 χ^2/NDF : 6110012.2/47

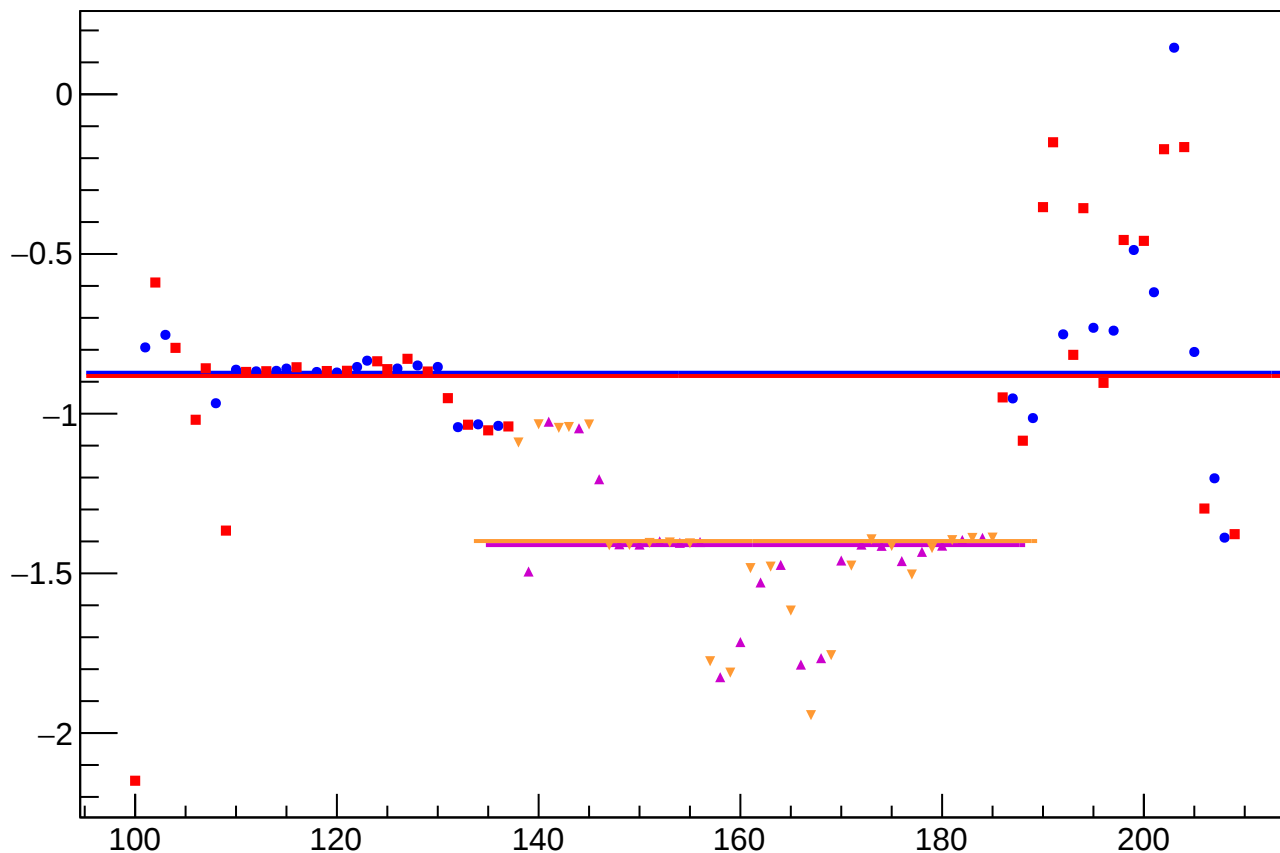
Right: 0.012+/-0.000 χ^2/NDF : 5049207.2/59

In: 0.012+/-0.000 χ^2/NDF :5365988.8/50

Out: 0.012+/-0.000 χ^2/NDF :5786955.3/56

All: 0.012+/-0.000 χ^2/NDF : 11159611.3/107

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: -0.882 ± 0.000 $\chi^2/\text{NDF}: 418595009.9/31$

Left In: -1.411 ± 0.000 $\chi^2/\text{NDF}: 512547995.0/22$

Left: -1.405 ± 0.000 $\chi^2/\text{NDF}: 1251791467.1/47$

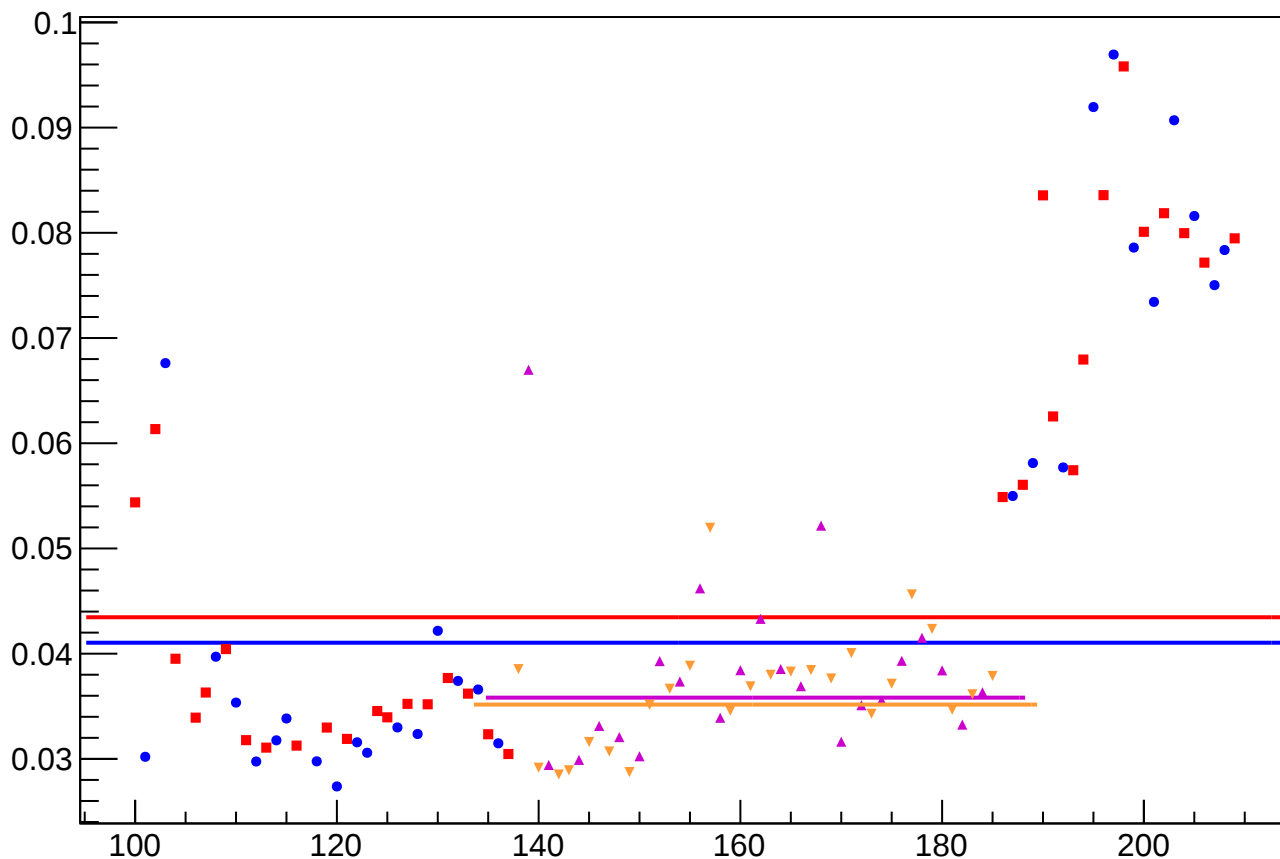
Right: -0.877 ± 0.000 $\chi^2/\text{NDF}: 630327531.1/59$

In: -1.218 ± 0.000 $\chi^2/\text{NDF}: 1967218941.7/50$

Out: -1.224 ± 0.000 $\chi^2/\text{NDF}: 2330960075.3/56$

All: -1.221 ± 0.000 $\chi^2/\text{NDF}: 4298490143.5/1$

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 : 3802708.1/31

Left In: 0.036+/-0.000 χ^2/NDF : 864147.6/22

Left: 0.035+/-0.000 χ^2/NDF : 1464751.5/47

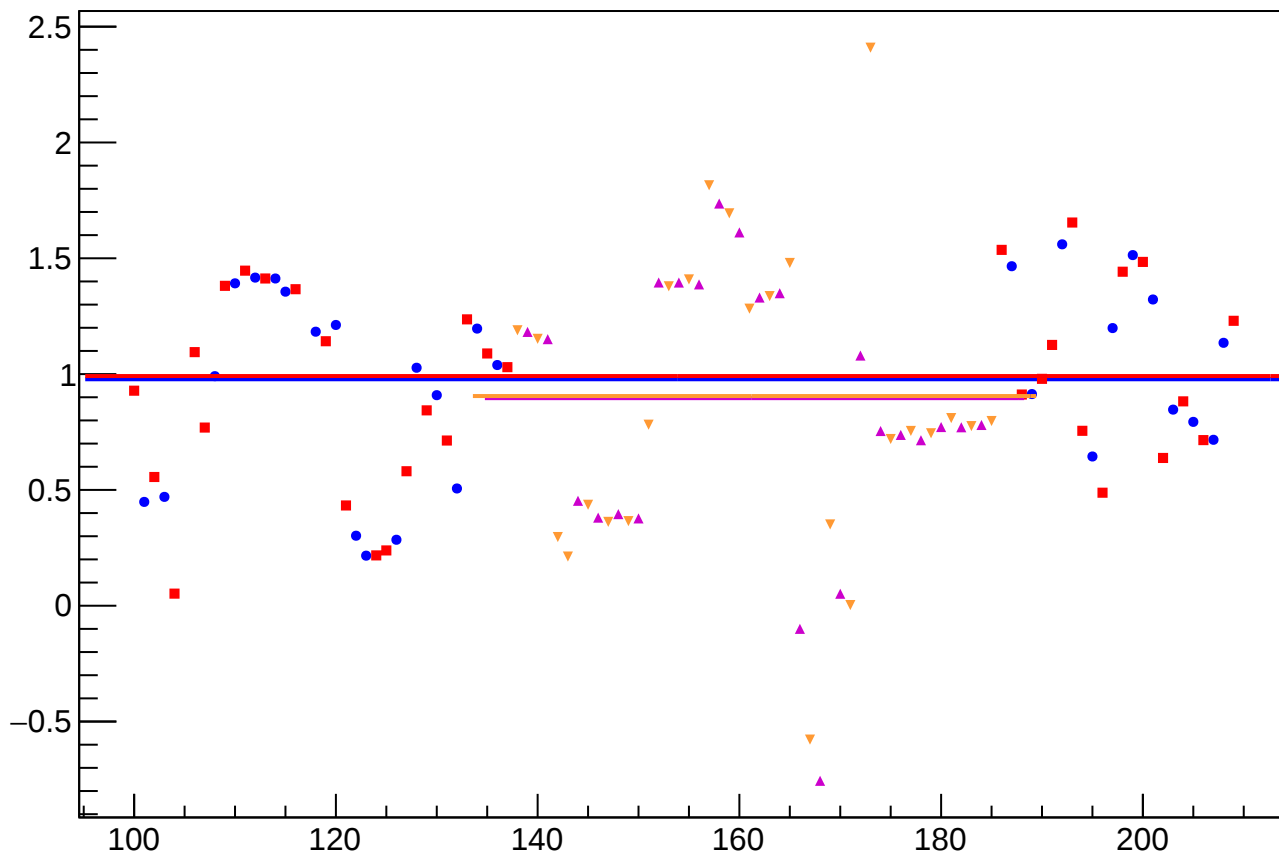
Right: 0.042+/-0.000 χ^2/NDF : 8125603.0/59

In: 0.038+/-0.000 χ^2/NDF : 5380825.1/50

Out: 0.038+/-0.000 χ^2/NDF : 5003408.9/56

All: 0.038+/-0.000 χ^2/NDF : 10385752.0/107

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

Right: 0.984+/-0.000 χ^2/NDF : 51245645722.4/59

Left Out: 0.905+/-0.000

χ^2/NDF : 84265726513.8/24

In: 0.938+/-0.000 χ^2/NDF : 90188919593.5/50

Right Out: 0.992+/-0.000

χ^2/NDF : 28326949999.0/31

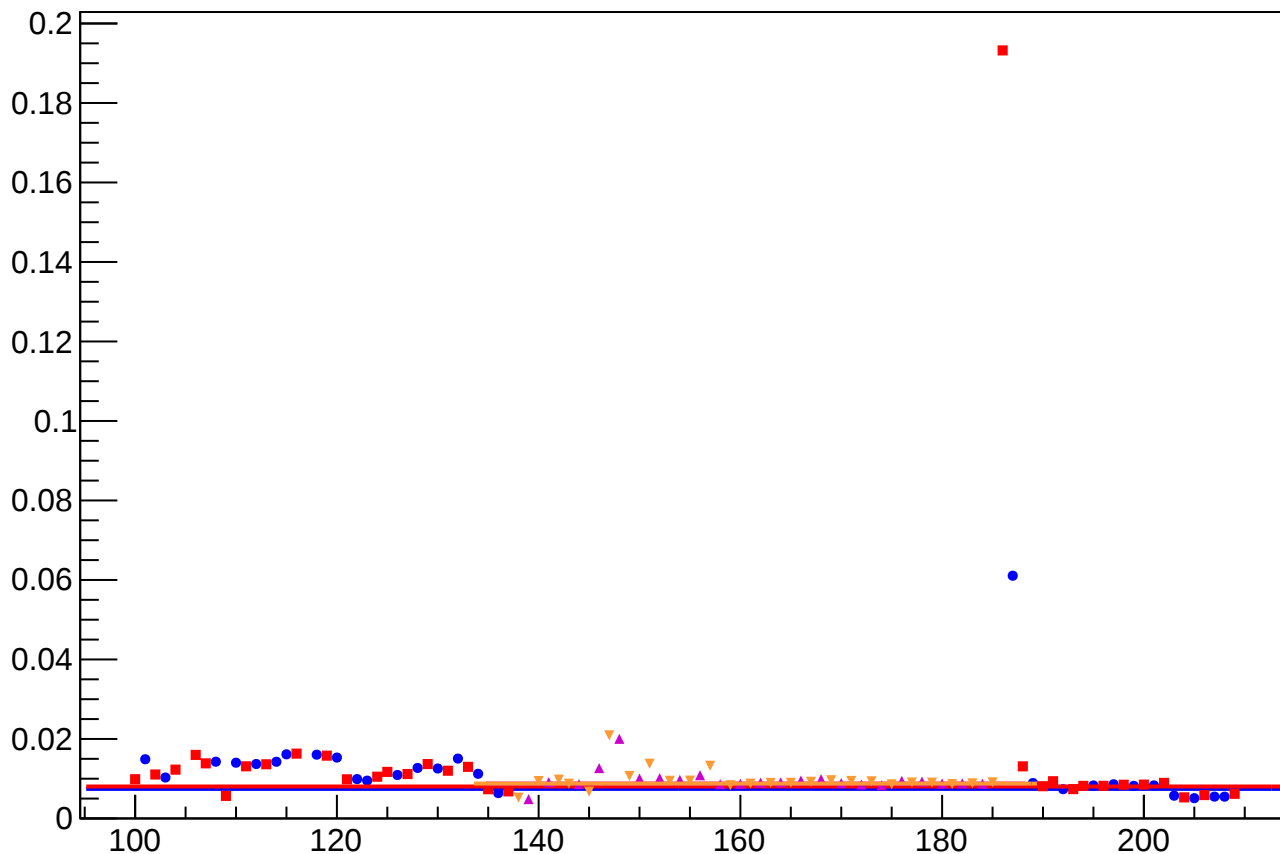
Out: 0.947+/-0.000 χ^2/NDF : 113372415140.9/56

Left In: 0.896+/-0.000

χ^2/NDF : 66594200889.6/22

All: 0.942+/-0.000 χ^2/NDF : 203576987808.0

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: 3246228.6/31

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

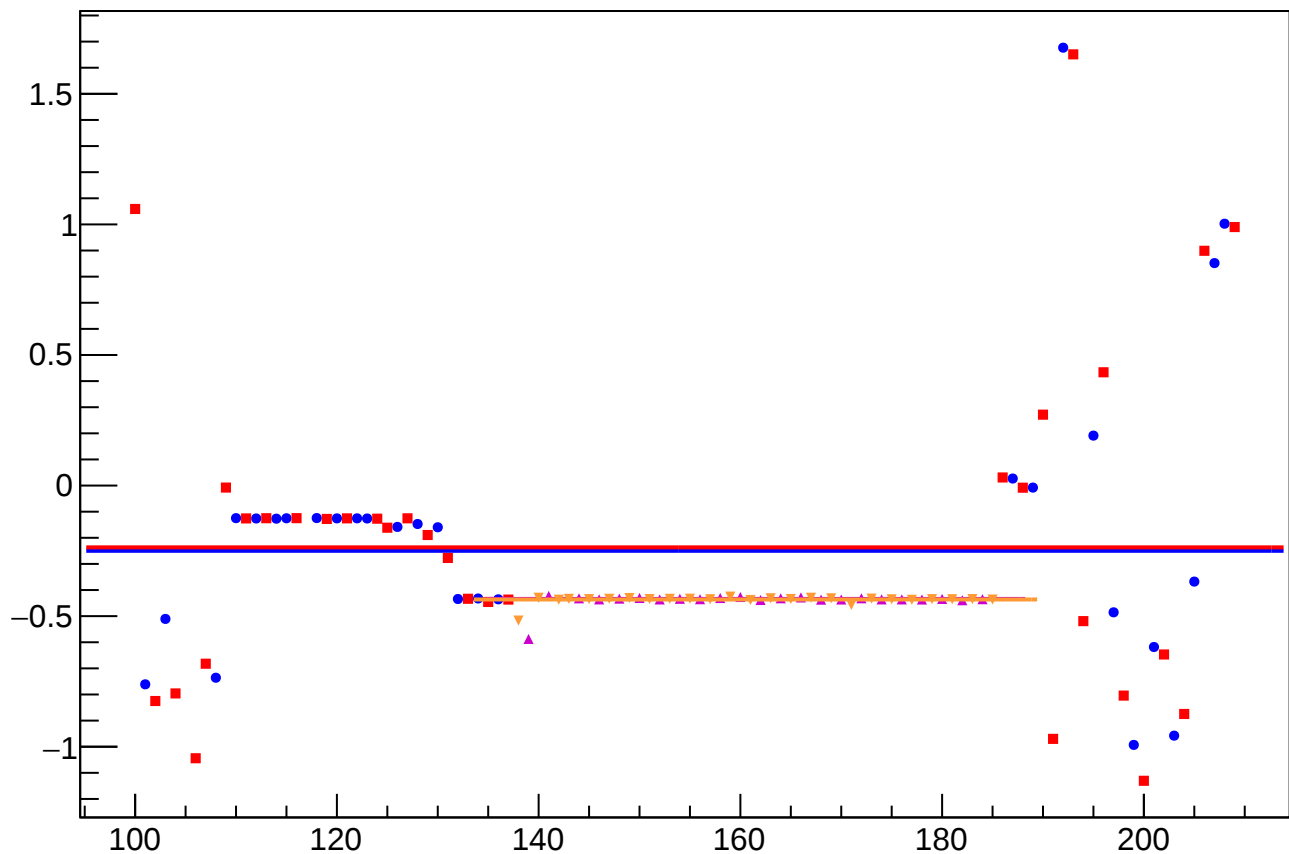
Right: 0.008 $\pm$ 0.000 χ^2 /NDF: 6526550.5/59

In: 0.008 $\pm$ 0.000 χ^2 /NDF:5186130.7/50

Out: 0.008 $\pm$ 0.000 χ^2 /NDF:5058263.2/56

All: 0.008 $\pm$ 0.000 χ^2 /NDF: 10291131.4/107

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: -0.237+/-0.000 χ^2/NDF : 3261489466.0/31

Left In: -0.434+/-0.000 χ^2/NDF : 23984173.0/22

Left: -0.435+/-0.000 χ^2/NDF : 53122221.7/47

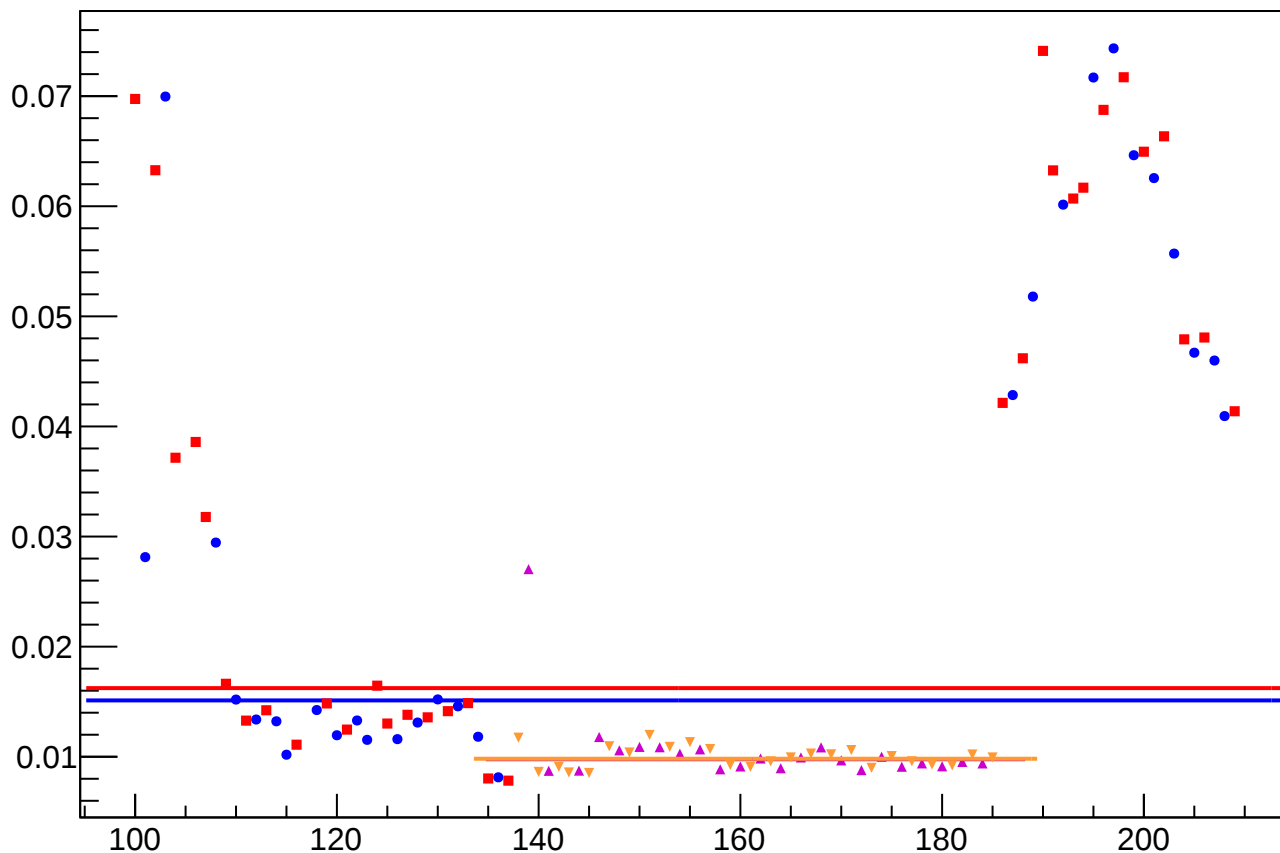
Right: -0.243+/-0.000 χ^2/NDF : 6432539974.2/59

In: -0.400+/-0.000 χ^2/NDF : 4145702019.4/50

Out: -0.403+/-0.000 χ^2/NDF : 4371047253.0/56

All: -0.401+/-0.000 χ^2/NDF : 8517452989.5/1

yield_bpm16X_rms vs Slug, Sign Corrected



Right In: 0.015 $\pm$ 0.000 χ^2 /NDF: 10203407.9/27

Left Out: 0.010 $\pm$ 0.000 χ^2 /NDF:269242.6/24

Right Out: 0.016 $\pm$ 0.000 χ^2 /NDF: 11119844.2/31

Left In: 0.010 $\pm$ 0.000 χ^2 /NDF:747550.0/22

Left: 0.010 $\pm$ 0.000 χ^2 /NDF: 1017115.3/47

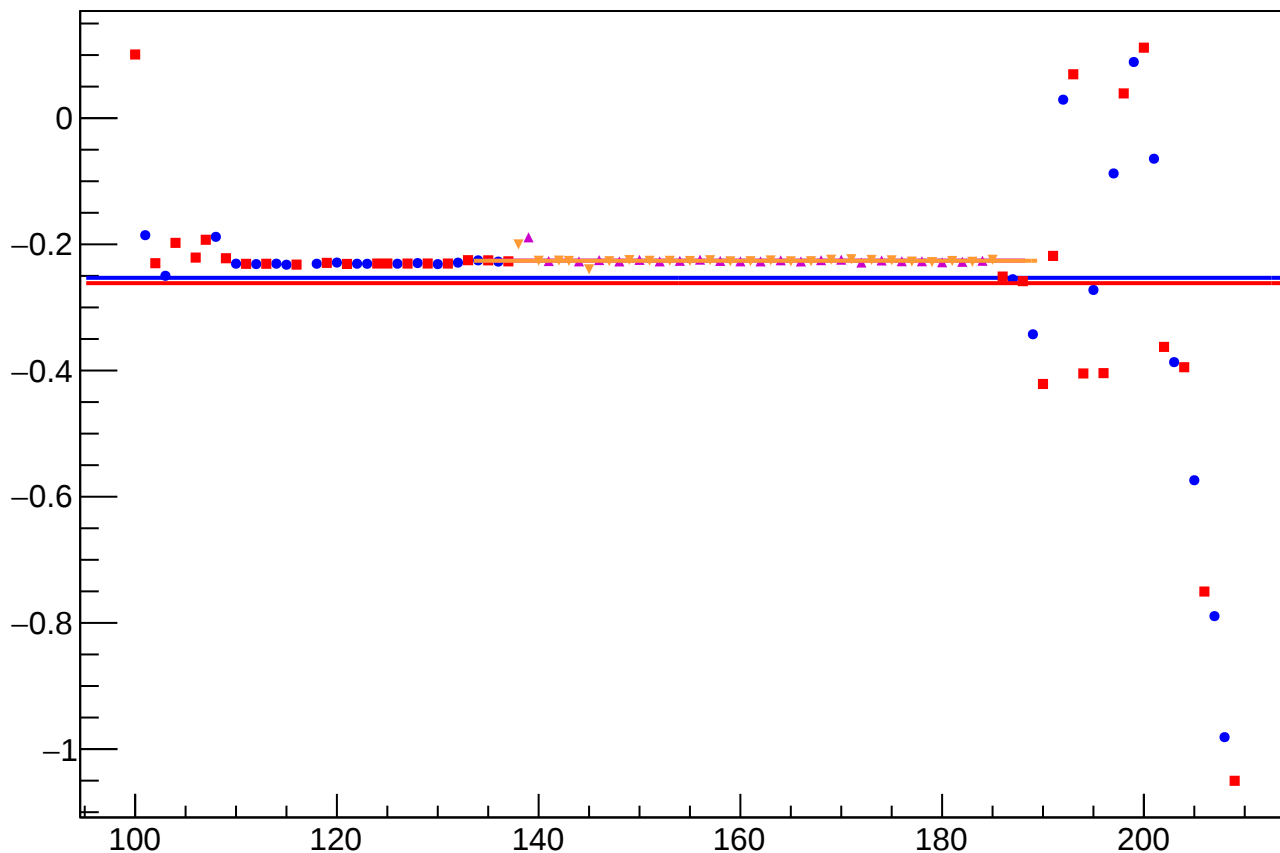
Right: 0.016 $\pm$ 0.000 χ^2 /NDF: 21365027.4/59

In: 0.011 $\pm$ 0.000 χ^2 /NDF:12554639.8/50

Out: 0.011 $\pm$ 0.000 χ^2 /NDF:13621624.7/56

All: 0.011 $\pm$ 0.000 χ^2 /NDF: 26179683.2/107

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: -0.262+/-0.000 χ^2/NDF : 23635279682.3/31

Left In: -0.226+/-0.000 χ^2/NDF : 15245251.1/22

Left: -0.226+/-0.000 χ^2/NDF : 36480793.2/47

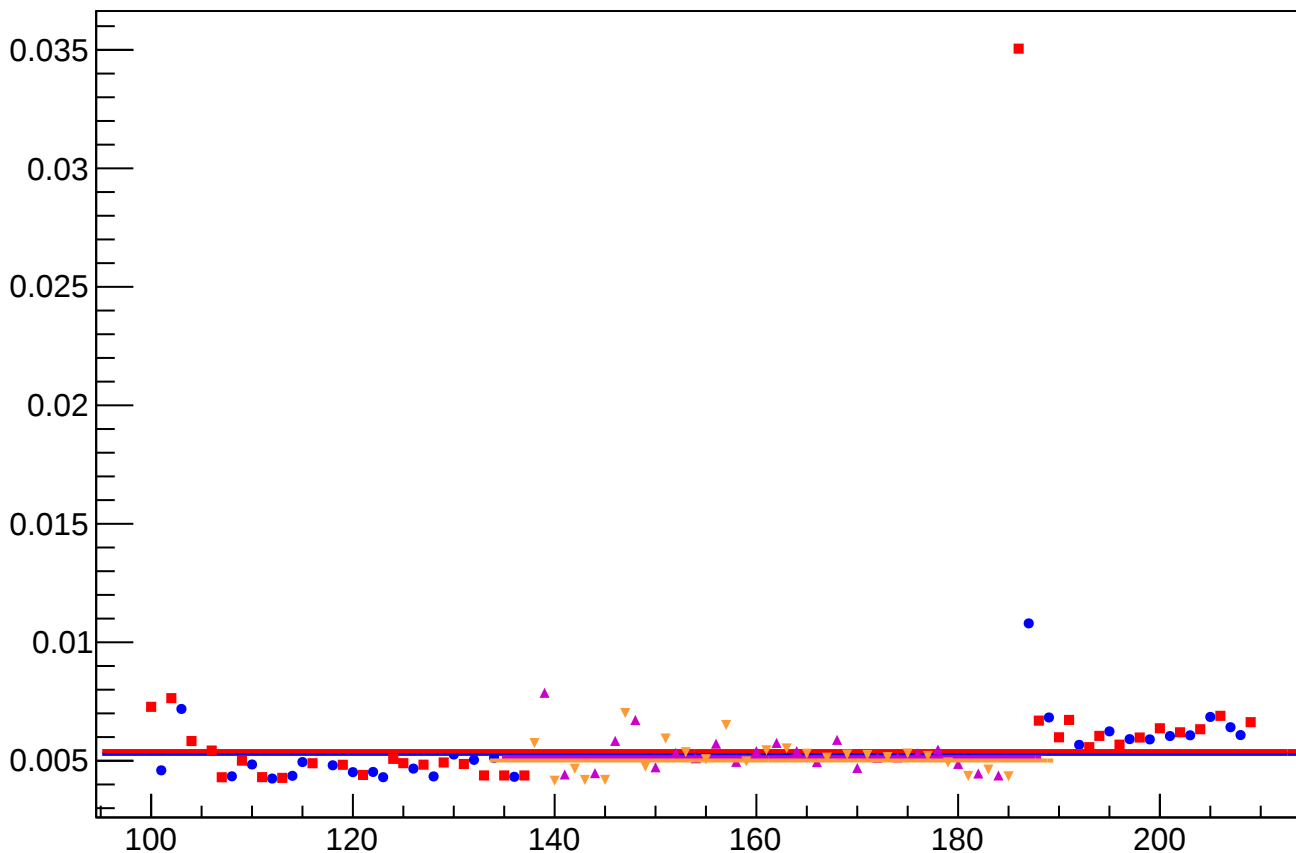
Right: -0.257+/-0.000 χ^2/NDF : 46094461570.9/59

In: -0.238+/-0.000 χ^2/NDF : 22655625717.6/50

Out: -0.241+/-0.000 χ^2/NDF : 24013979744.7/56

All: -0.239+/-0.000 χ^2/NDF : 46675366793.4/114

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 : 1303747.5/31

Left In: 0.005+/-0.000 χ^2/NDF : 493107.7/22

Left: 0.005+/-0.000 χ^2/NDF : 1035156.6/47

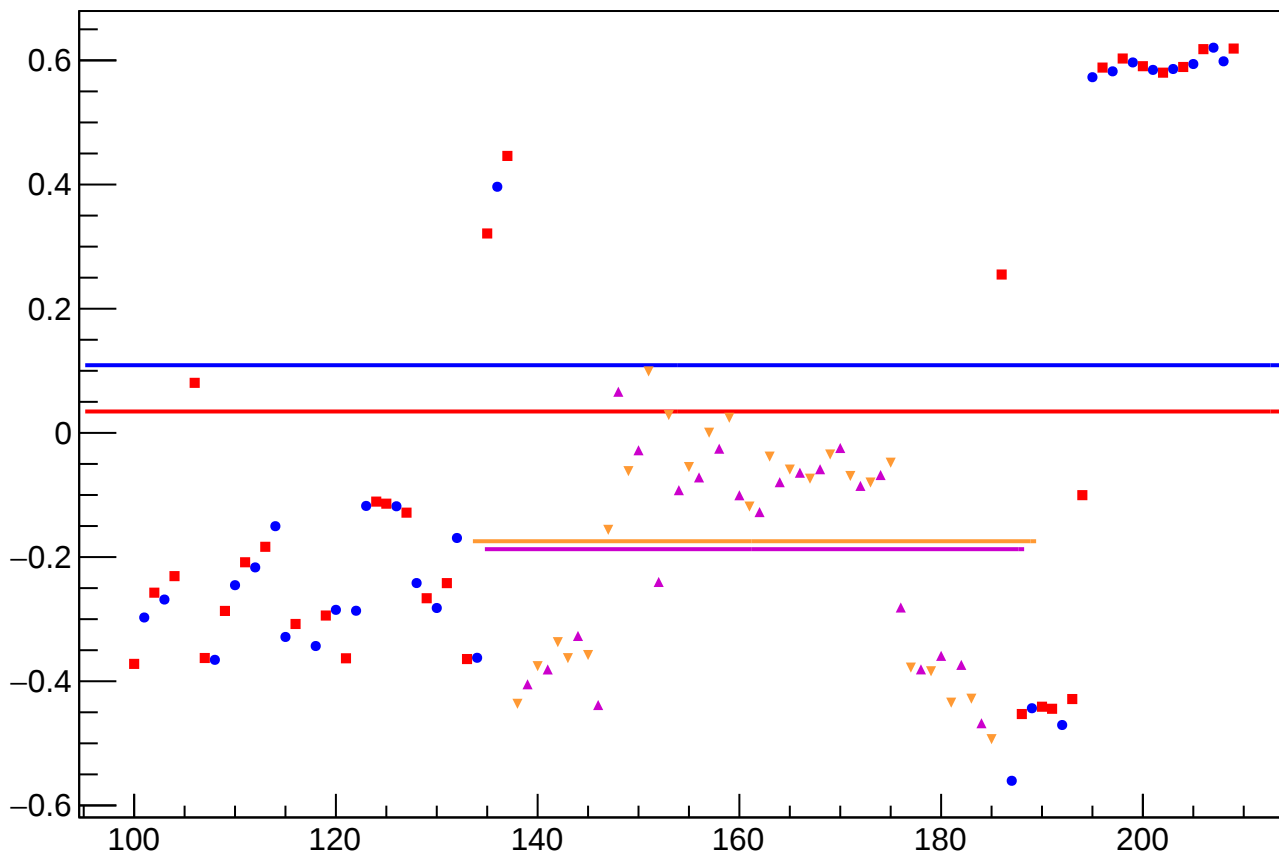
Right: 0.005+/-0.000 χ^2/NDF : 2087191.3/59

In: 0.005+/-0.000 χ^2/NDF : 1280971.5/50

Out: 0.005+/-0.000 χ^2/NDF : 1924020.9/56

All: 0.005+/-0.000 χ^2/NDF : 3206063.4/107

yield_bpm0i02X_mean vs Slug, Sign Corrected



Right In: 0.109+/-0.000

χ^2/NDF : 60427656711.2/27

Left: -0.181+/-0.000

χ^2/NDF : 30888184231.6/47

Left Out: -0.174+/-0.000

χ^2/NDF : 18025533236.1/24

Right: 0.070+/-0.000

χ^2/NDF : 121213450440.7/59

Right Out: 0.034+/-0.000

χ^2/NDF : 59906731283.5/31

In: -0.082+/-0.000

χ^2/NDF : 90277790265.2/50

Out: -0.098+/-0.000

χ^2/NDF : 87178028628.1/56

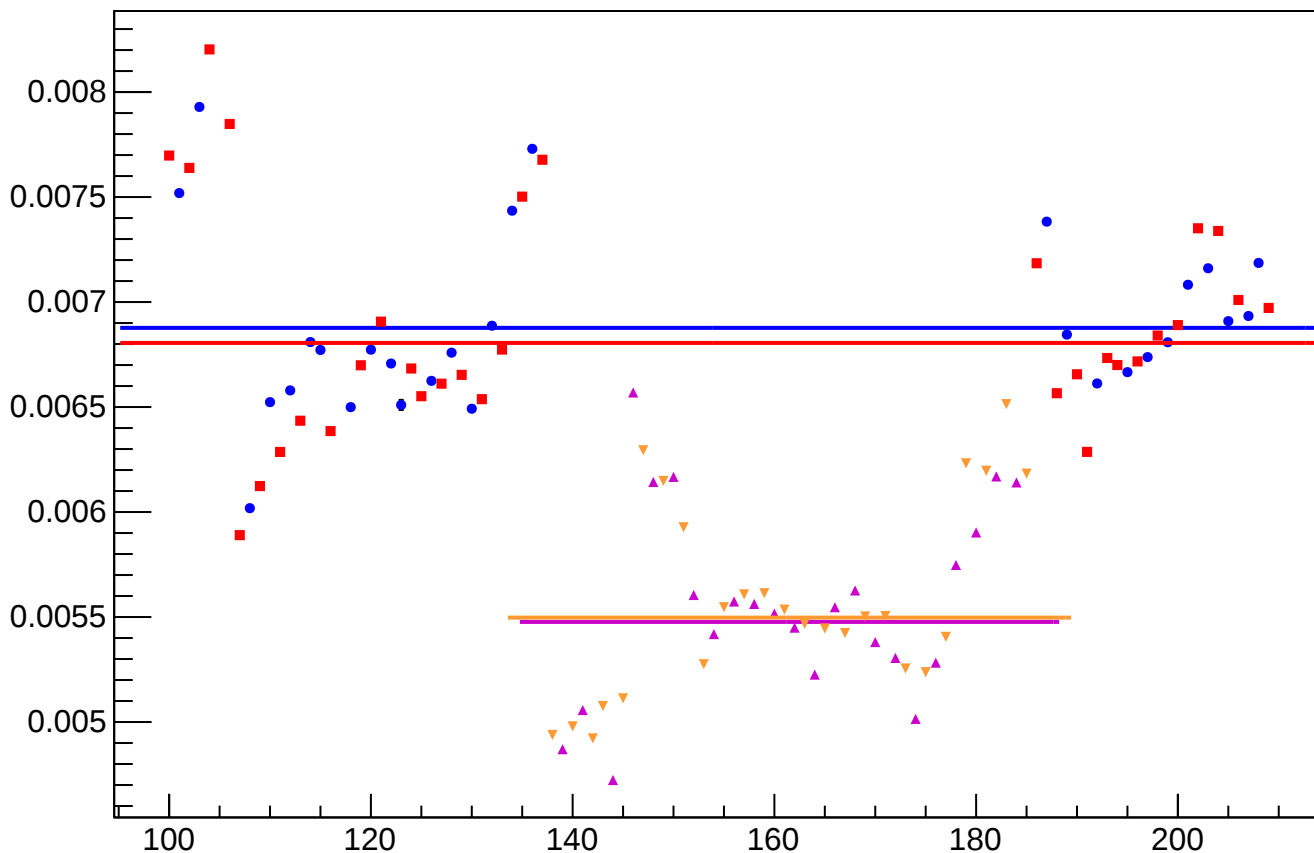
Left In: -0.187+/-0.000

χ^2/NDF : 12816646575.4/22

All: -0.090+/-0.000

χ^2/NDF : 177564165165.5

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 : 130948.6/31

Left In: 0.005+/-0.000 χ^2/NDF :202181.4/22

Left: 0.005+/-0.000 χ^2/NDF : 401165.3/47

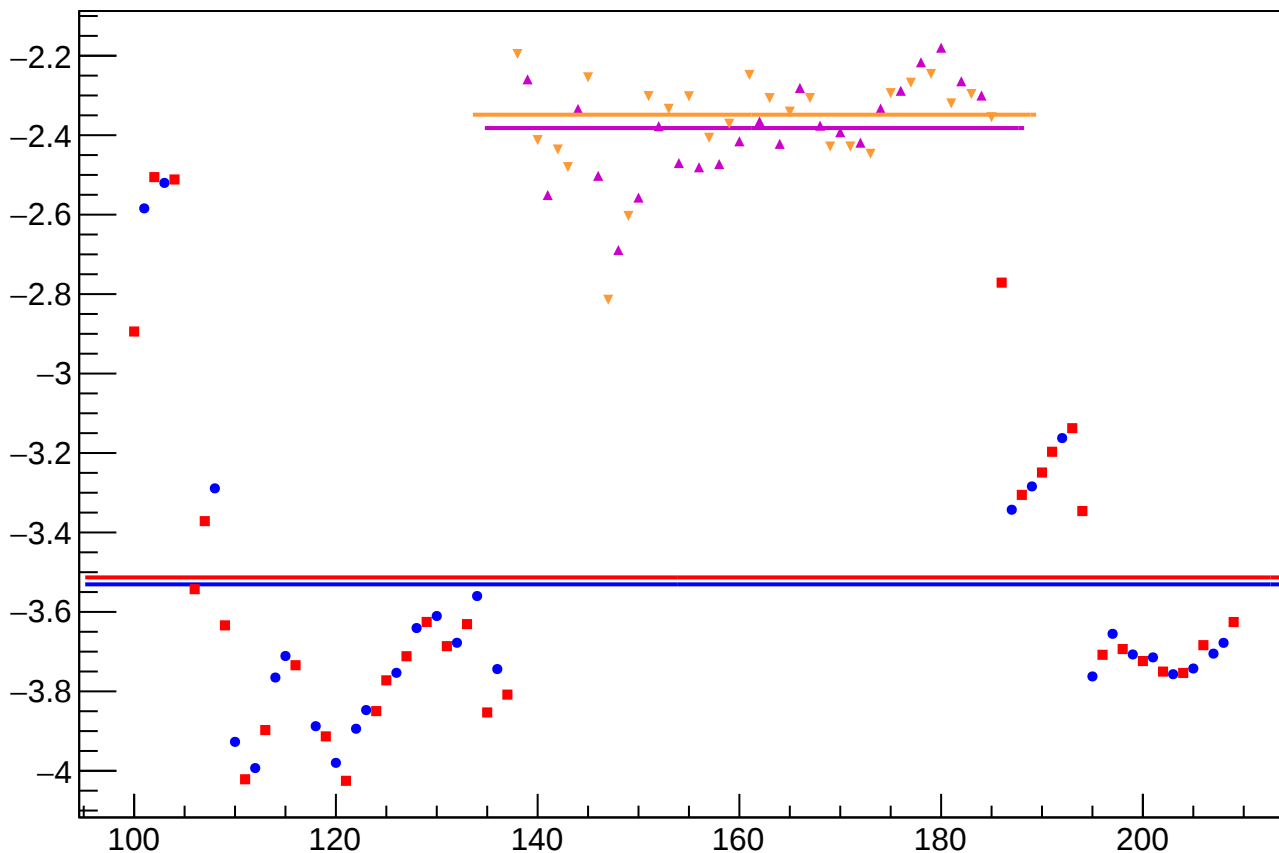
Right: 0.007+/-0.000 χ^2/NDF : 224083.8/59

In: 0.006+/-0.000 χ^2/NDF :1054751.2/50

Out: 0.006+/-0.000 χ^2/NDF :1054246.8/56

All: 0.006+/-0.000 χ^2/NDF : 2109007.3/107

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: -3.513+/-0.000 χ^2/NDF : 30883467884.2/31

Left In: -2.382+/-0.000 χ^2/NDF : 2318395228.4/22

Left: -2.365+/-0.000 χ^2/NDF : 4600738143.2/47

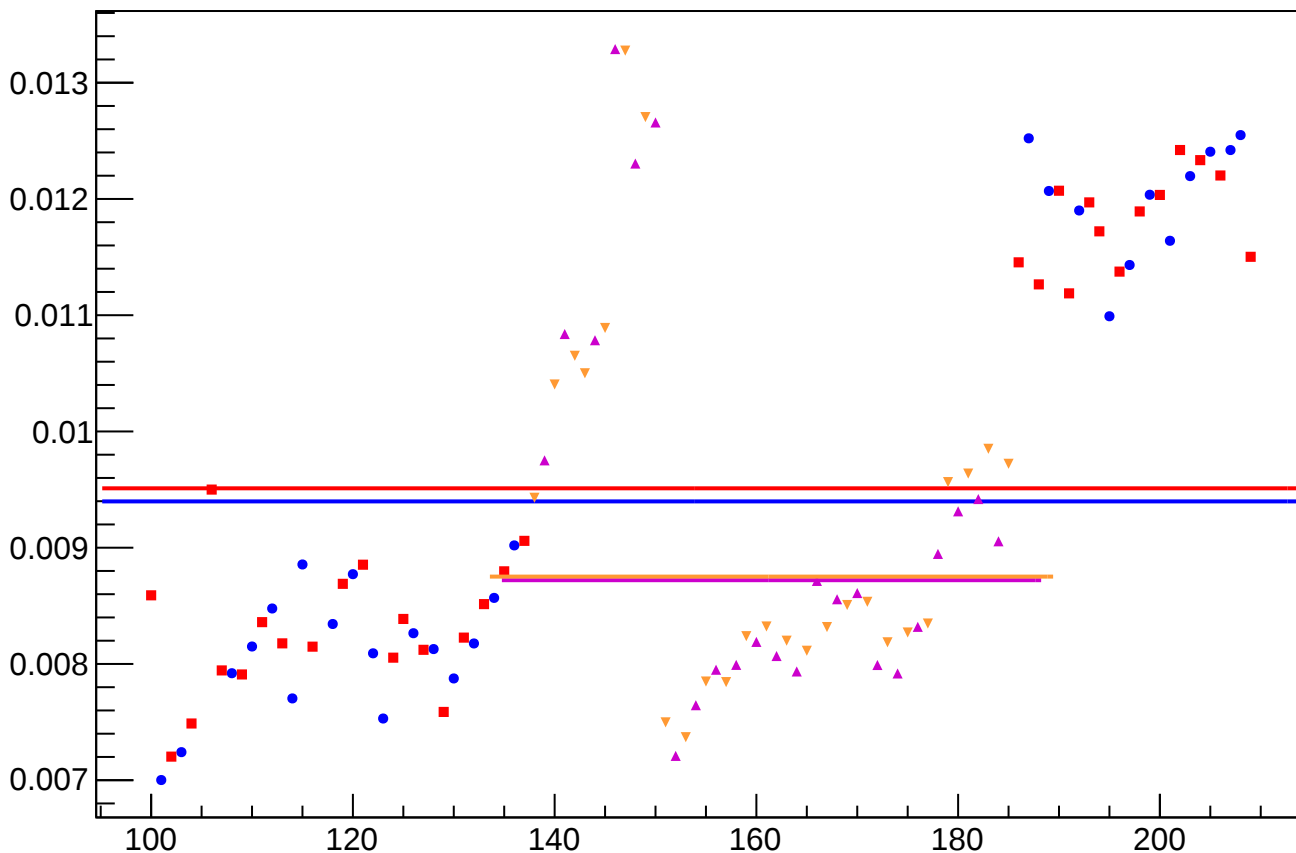
Right: -3.522+/-0.000 χ^2/NDF : 60934389472.6/59

In: -2.863+/-0.000 χ^2/NDF : 150172424137.4/50

Out: -2.839+/-0.000 χ^2/NDF : 161701009715.6/56

All: -2.851+/-0.000 χ^2/NDF : 311975798404.0

yield_bpm0i02Y_rms vs Slug, Sign Corrected



Right In: 0.009+/-0.000 χ^2/NDF : 1143553.9/27

Left Out: 0.009+/-0.000 χ^2/NDF : 663672.8/24

Right Out: 0.010+/-0.000 χ^2/NDF : 1110534.8/31

Left In: 0.009+/-0.000 χ^2/NDF : 747867.0/22

Left: 0.009+/-0.000 χ^2/NDF : 1411749.0/47

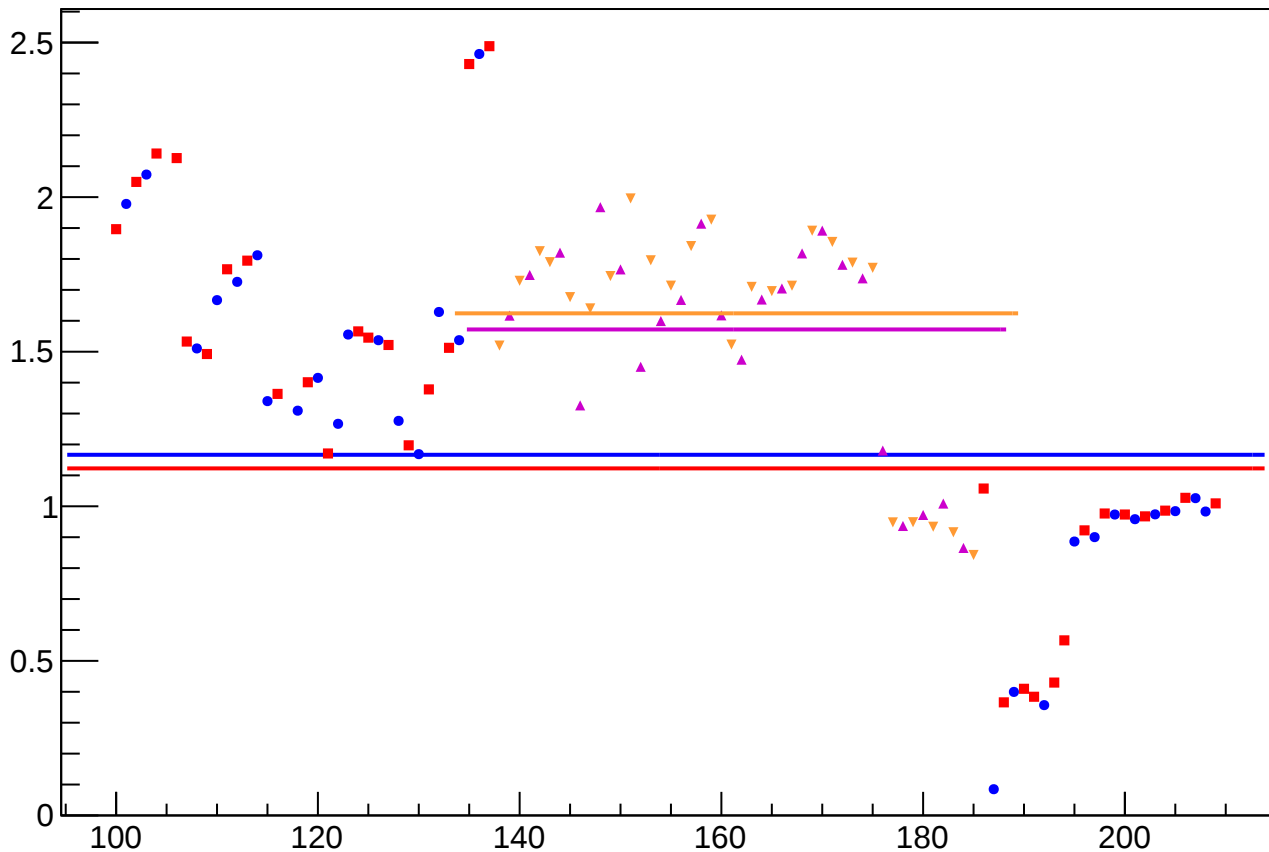
Right: 0.009+/-0.000 χ^2/NDF : 2256098.0/59

In: 0.009+/-0.000 χ^2/NDF : 1973470.3/50

Out: 0.009+/-0.000 χ^2/NDF : 1883592.6/56

All: 0.009+/-0.000 χ^2/NDF : 3858778.9/107

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: 1.123 $\pm$ 0.000

χ^2/NDF : 32711975557.0/31

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: 1.143 $\pm$ 0.000

χ^2/NDF : 60384355014.9/59

In: 1.413 $\pm$ 0.000

χ^2/NDF : 51328779657.8/50

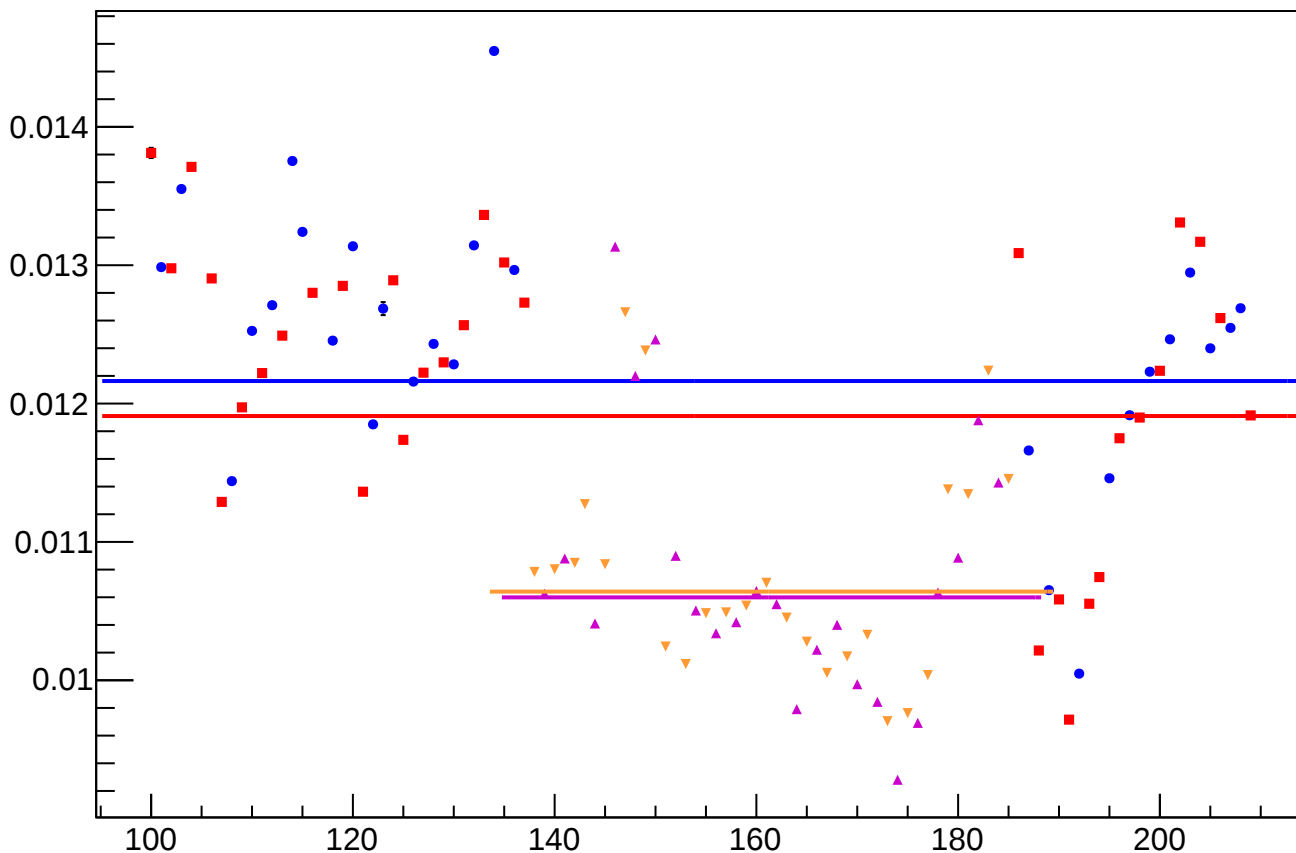
Out: 1.419 $\pm$ 0.000

χ^2/NDF : 65417602648.9/56

All: 1.416 $\pm$ 0.000

χ^2/NDF : 116750534793.9

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 : 231027.2/31

Left In: 0.011+/-0.000 χ^2/NDF :204531.5/22

Left: 0.011+/-0.000 χ^2/NDF : 364556.9/47

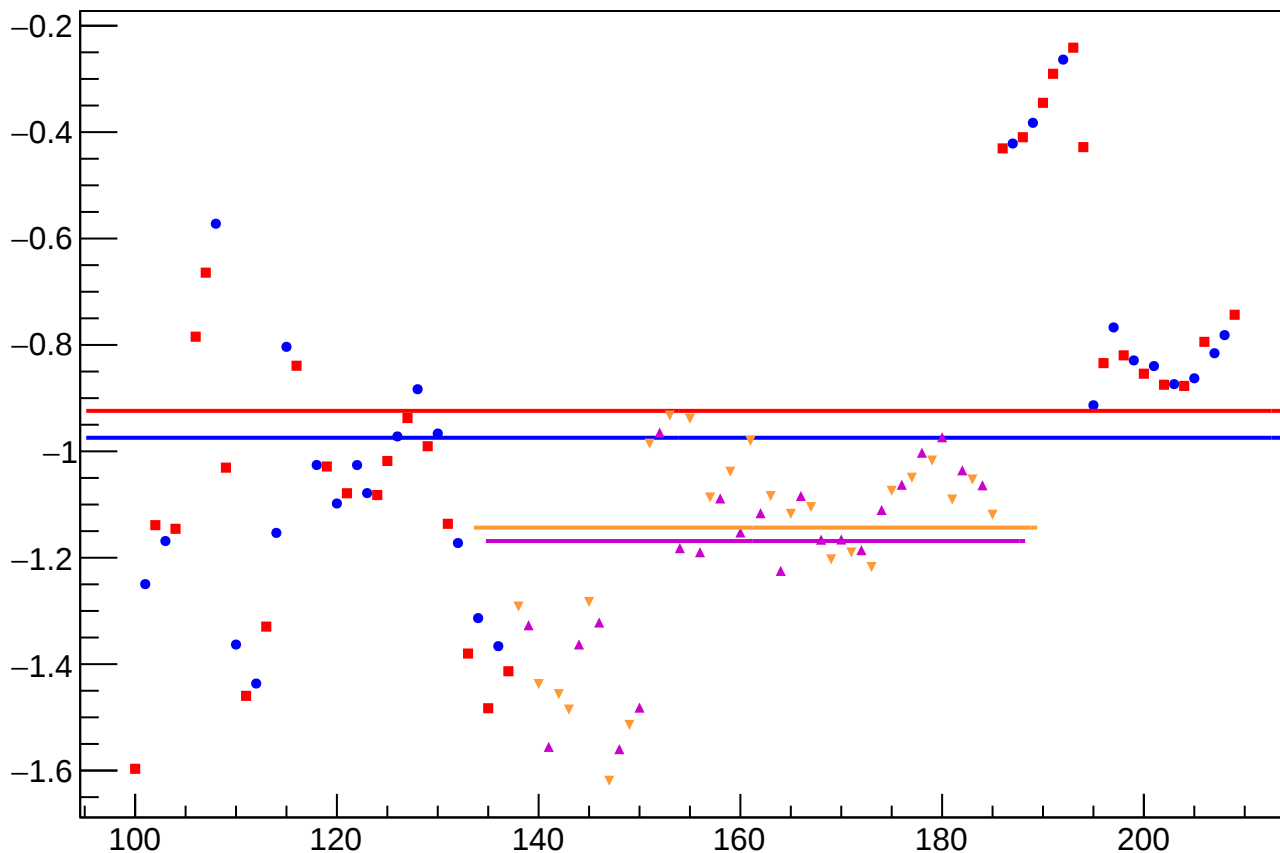
Right: 0.012+/-0.000 χ^2/NDF : 406663.1/59

In: 0.011+/-0.000 χ^2/NDF :657116.0/50

Out: 0.011+/-0.000 χ^2/NDF :596629.9/56

All: 0.011+/-0.000 χ^2/NDF : 1254428.1/107

yield_bpm0i02aY_mean vs Slug, Sign Corrected



Right In: -0.975+/-0.000 χ^2/NDF : 11137407911.3/27

Left Out: -1.143+/-0.000 χ^2/NDF : 7976364534.0/24

Right Out: -0.924+/-0.000 χ^2/NDF : 16042405957.5/31

Left In: -1.169+/-0.000 χ^2/NDF : 6362643368.6/22

Left: -1.156+/-0.000 χ^2/NDF : 14424995220.9/47

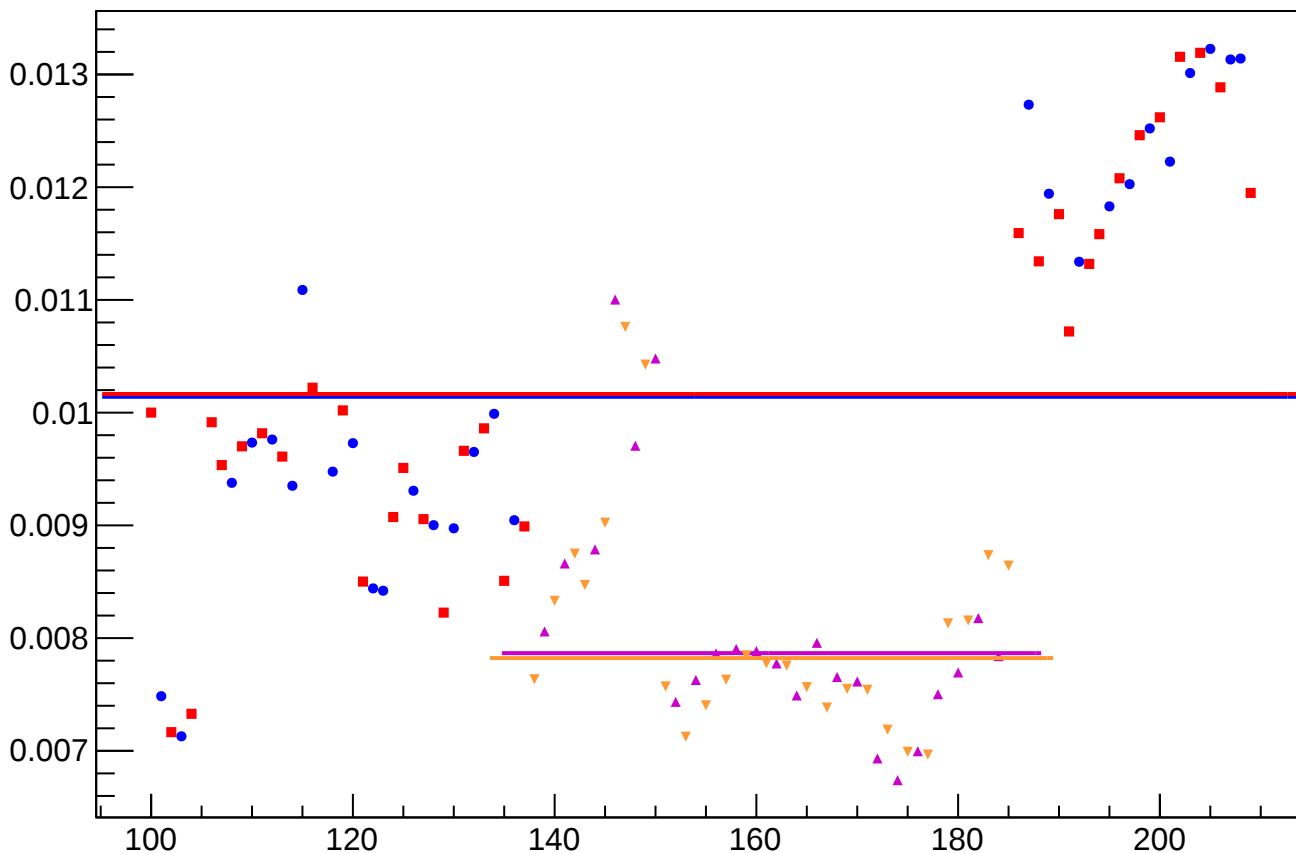
Right: -0.948+/-0.000 χ^2/NDF : 27355076508.9/59

In: -1.104+/-0.000 χ^2/NDF : 20795751812.5/50

Out: -1.069+/-0.000 χ^2/NDF : 28576318356.3/56

All: -1.086+/-0.000 χ^2/NDF : 49615706313.8/100

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: 940722.5/31

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

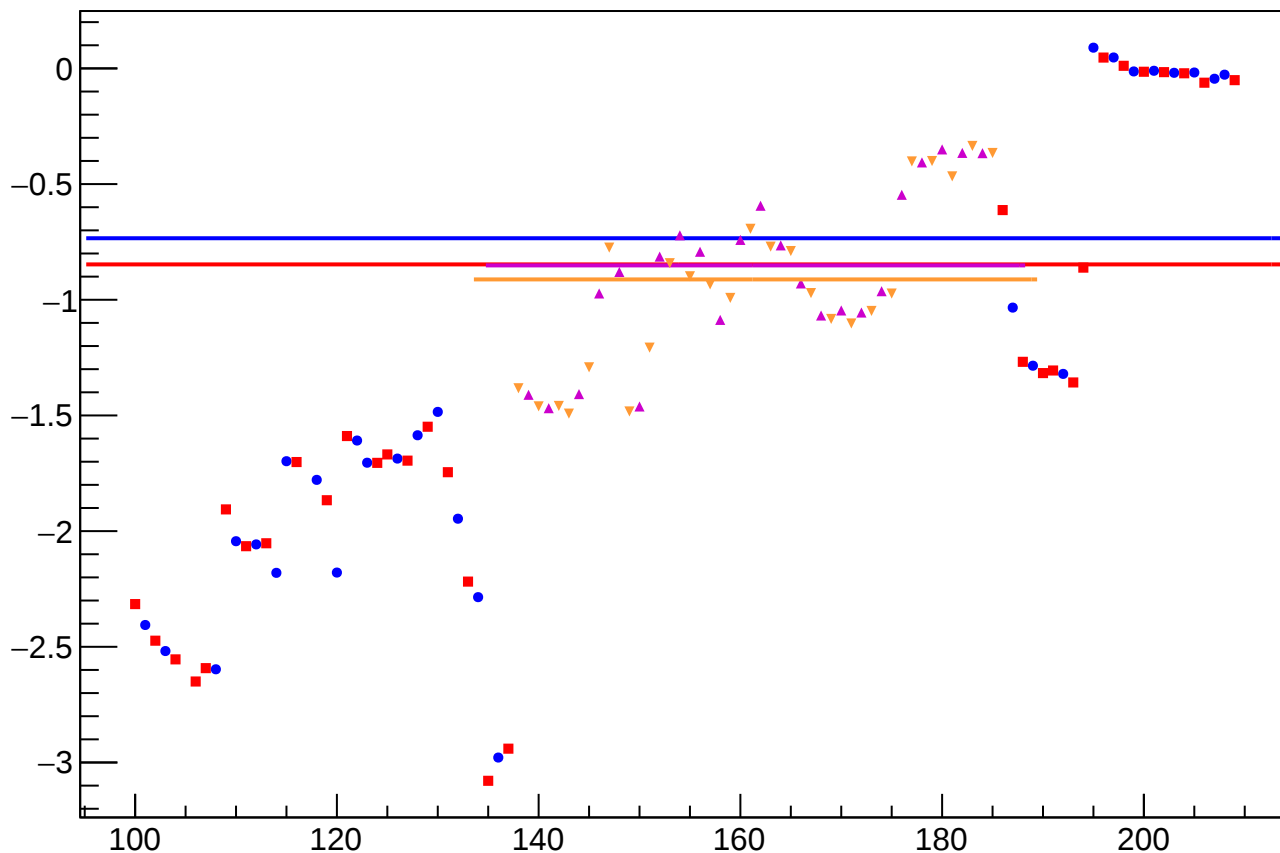
Right: 0.010 $\pm$ 0.000 χ^2 /NDF: 1920040.0/59

In: 0.009 $\pm$ 0.000 χ^2 /NDF:2263923.4/50

Out: 0.009 $\pm$ 0.000 χ^2 /NDF:2314855.2/56

All: 0.009 $\pm$ 0.000 χ^2 /NDF: 4578831.5/107

yield_bpm0i05X_mean vs Slug, Sign Corrected



Left: -0.882 $\pm$ 0.000 χ^2/NDF : 96285672564.6/47
 Right: -0.796 $\pm$ 0.000 χ^2/NDF : 748187137572.6/59
 In: -0.798 $\pm$ 0.000 χ^2/NDF : 410939469414.8/50
 Out: -0.880 $\pm$ 0.000 χ^2/NDF : 433849685625.2/56
 All: -0.841 $\pm$ 0.000 χ^2/NDF : 847572981419.4

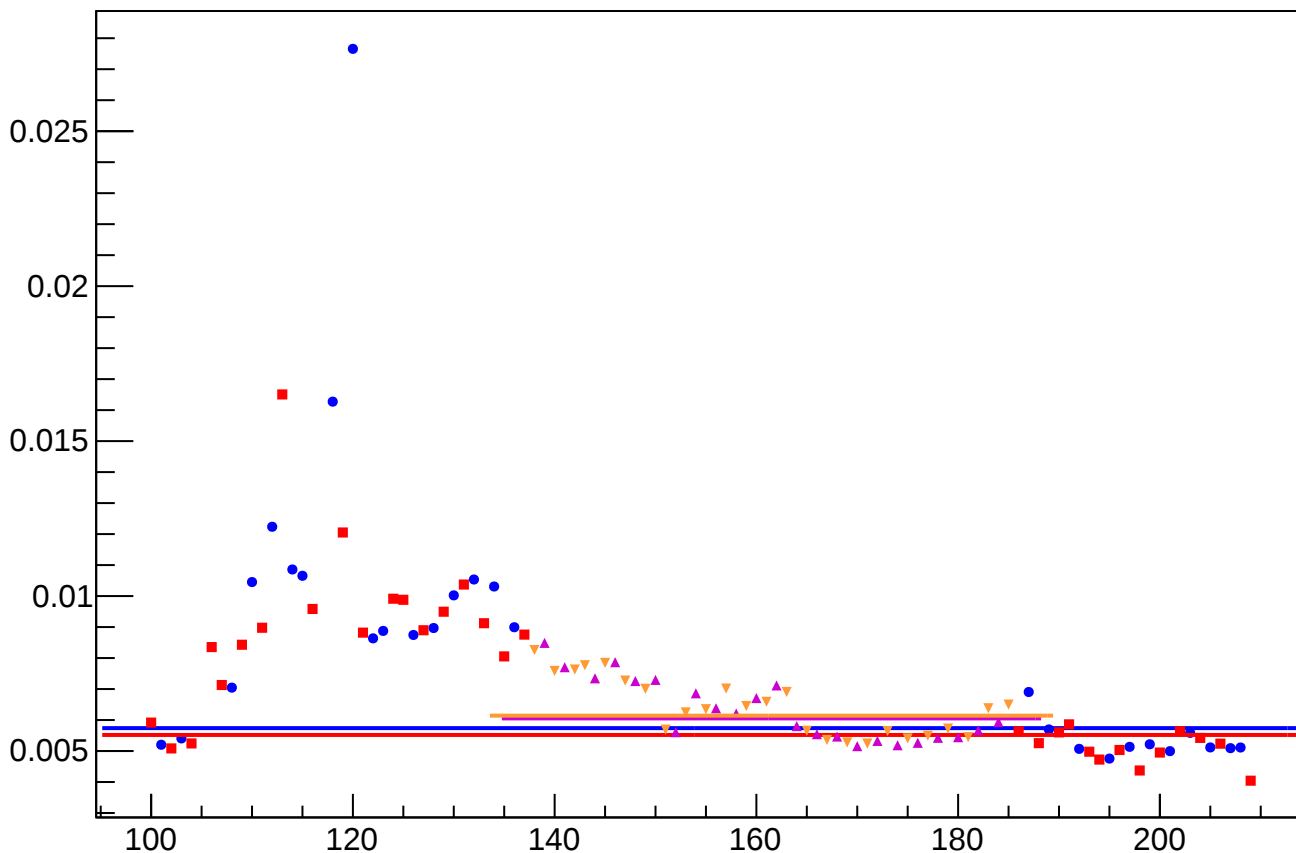
Right In: -0.734 $\pm$ 0.000 χ^2/NDF : 361789732027.7/27

Left Out: -0.912 $\pm$ 0.000 χ^2/NDF : 49039425818.1/24

Right Out: -0.847 $\pm$ 0.000 χ^2/NDF : 383885984064.2/31

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 : 2097165.1/31

Left In: 0.006+/-0.000 χ^2/NDF : 697577.8/22

Left: 0.006+/-0.000 χ^2/NDF : 1338871.2/47

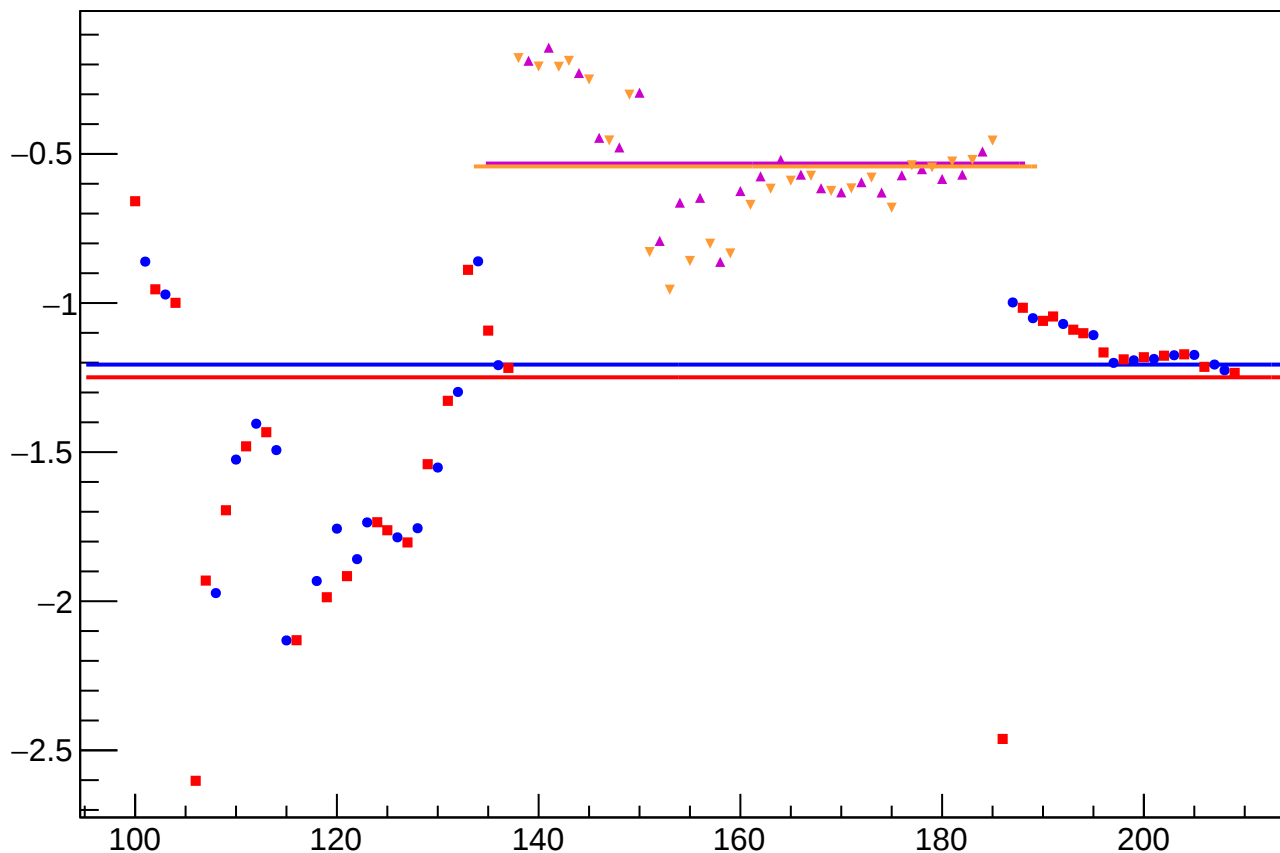
Right: 0.006+/-0.000 χ^2/NDF : 4142378.2/59

In: 0.006+/-0.000 χ^2/NDF : 2762410.3/50

Out: 0.006+/-0.000 χ^2/NDF : 2905673.8/56

All: 0.006+/-0.000 χ^2/NDF : 5672913.7/107

yield_bpm0i05Y_mean vs Slug, Sign Corrected



Right In: -1.206 $\pm$ 0.000 χ^2 /NDF: 26348214413.2/27

Left Out: -0.542 $\pm$ 0.000 χ^2 /NDF: 47268284910.3/24

Right Out: -1.249 $\pm$ 0.000 χ^2 /NDF: 78878706736.0/31

Left In: -0.532 $\pm$ 0.000 χ^2 /NDF: 30715235426.8/22

Left: -0.537 $\pm$ 0.000 χ^2 /NDF: 78028833870.1/47

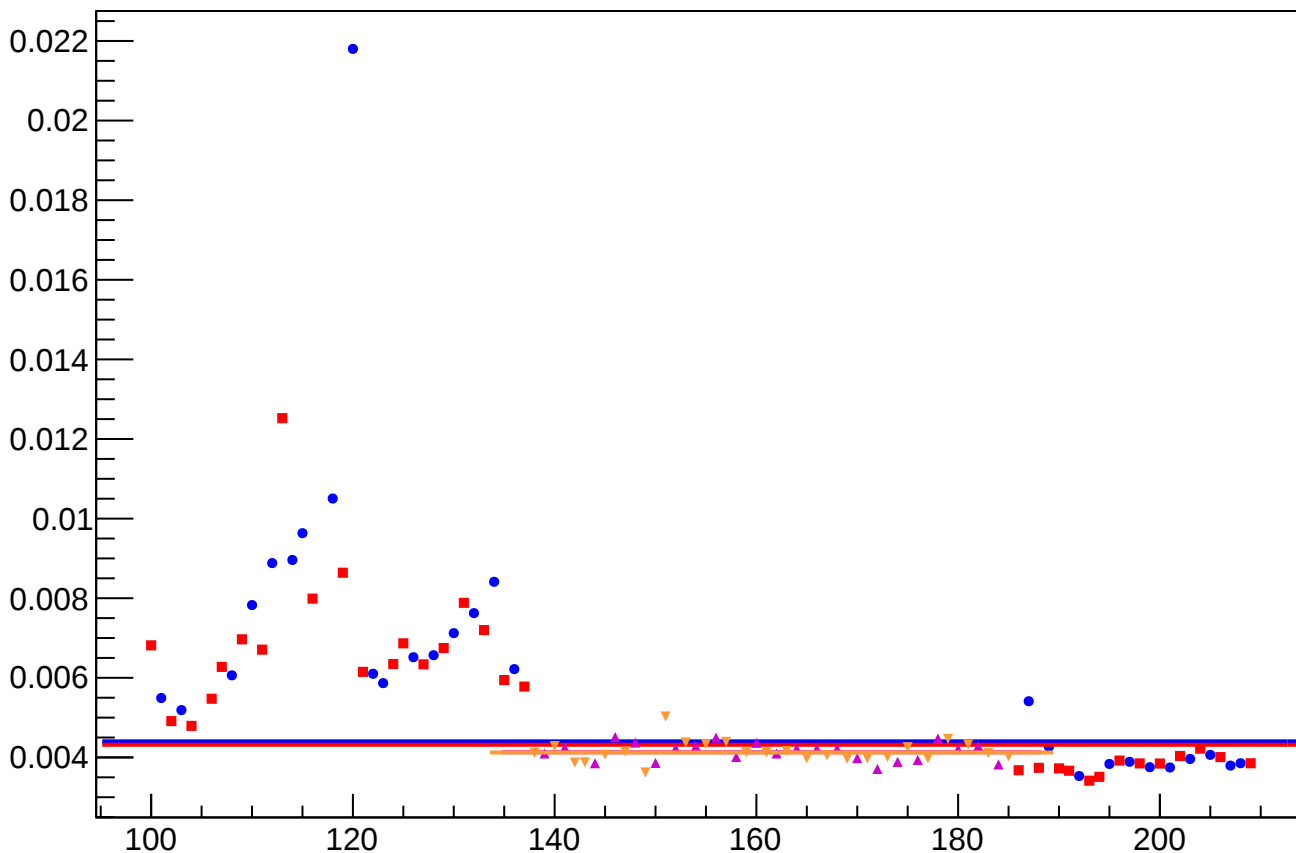
Right: -1.229 $\pm$ 0.000 χ^2 /NDF: 105819802470.6/59

In: -0.798 $\pm$ 0.000 χ^2 /NDF: 224620287806.8/50

Out: -0.835 $\pm$ 0.000 χ^2 /NDF: 331840076440.2/56

All: -0.817 $\pm$ 0.000 χ^2 /NDF: 557601830228.4

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 : 1863022.4/31

Left In: 0.004+/-0.000 χ^2/NDF :93111.2/22

Left: 0.004+/-0.000 χ^2/NDF : 206172.1/47

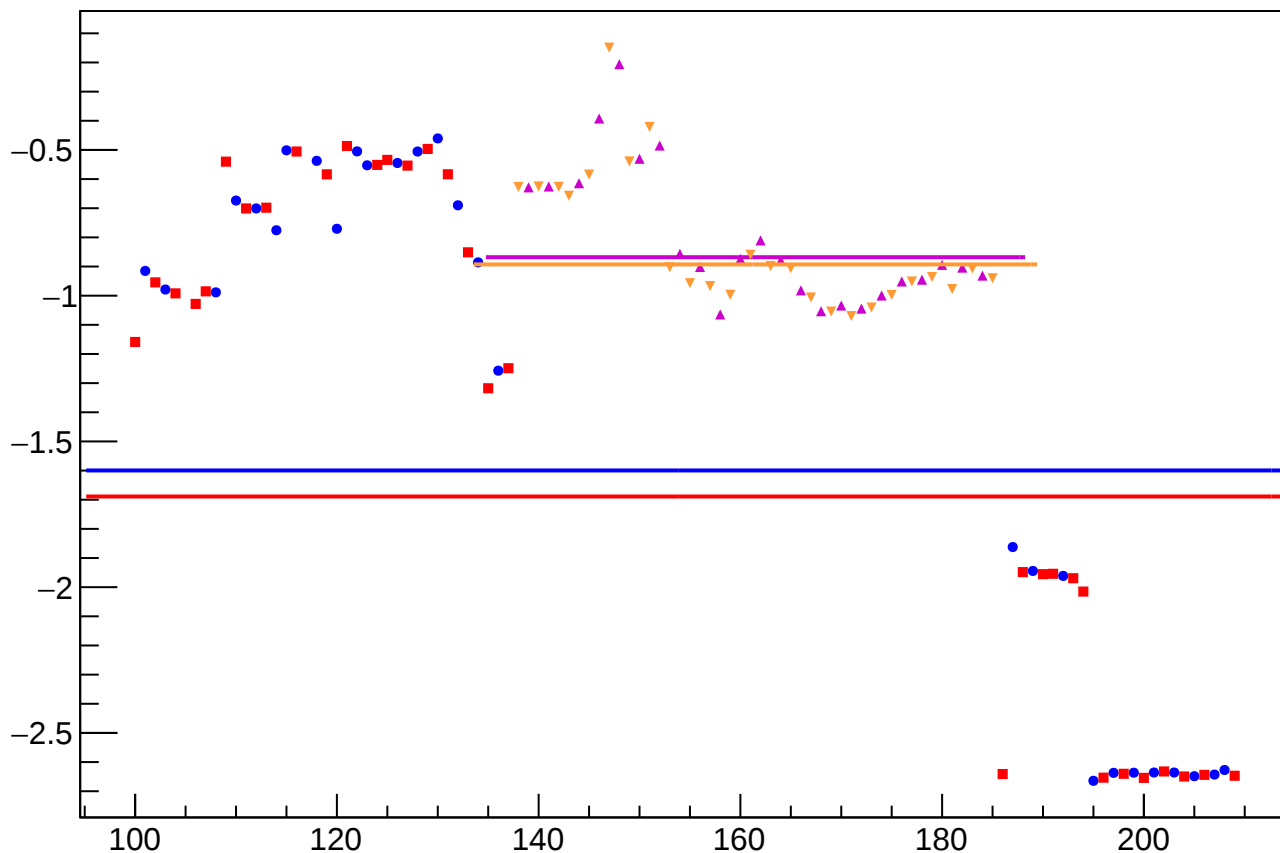
Right: 0.004+/-0.000 χ^2/NDF : 3896181.1/59

In: 0.004+/-0.000 χ^2/NDF :2176936.4/50

Out: 0.004+/-0.000 χ^2/NDF :2006881.2/56

All: 0.004+/-0.000 χ^2/NDF : 4185579.4/107

yield_bpm0i07X_mean vs Slug, Sign Corrected



Right In: -1.600+/-0.000

χ^2/NDF : 254877841172.1/27

Left: -0.880+/-0.000

χ^2/NDF : 84980637247.0/47

Left Out: -0.893+/-0.000

χ^2/NDF : 40787012603.8/24

Right: -1.652+/-0.000

χ^2/NDF : 571569847000.0/59

Right Out: -1.689+/-0.000

χ^2/NDF : 314581398848.4/31

In: -1.078+/-0.000

χ^2/NDF : 470471792525.1/50

Out: -1.182+/-0.000

χ^2/NDF : 614293064396.4/56

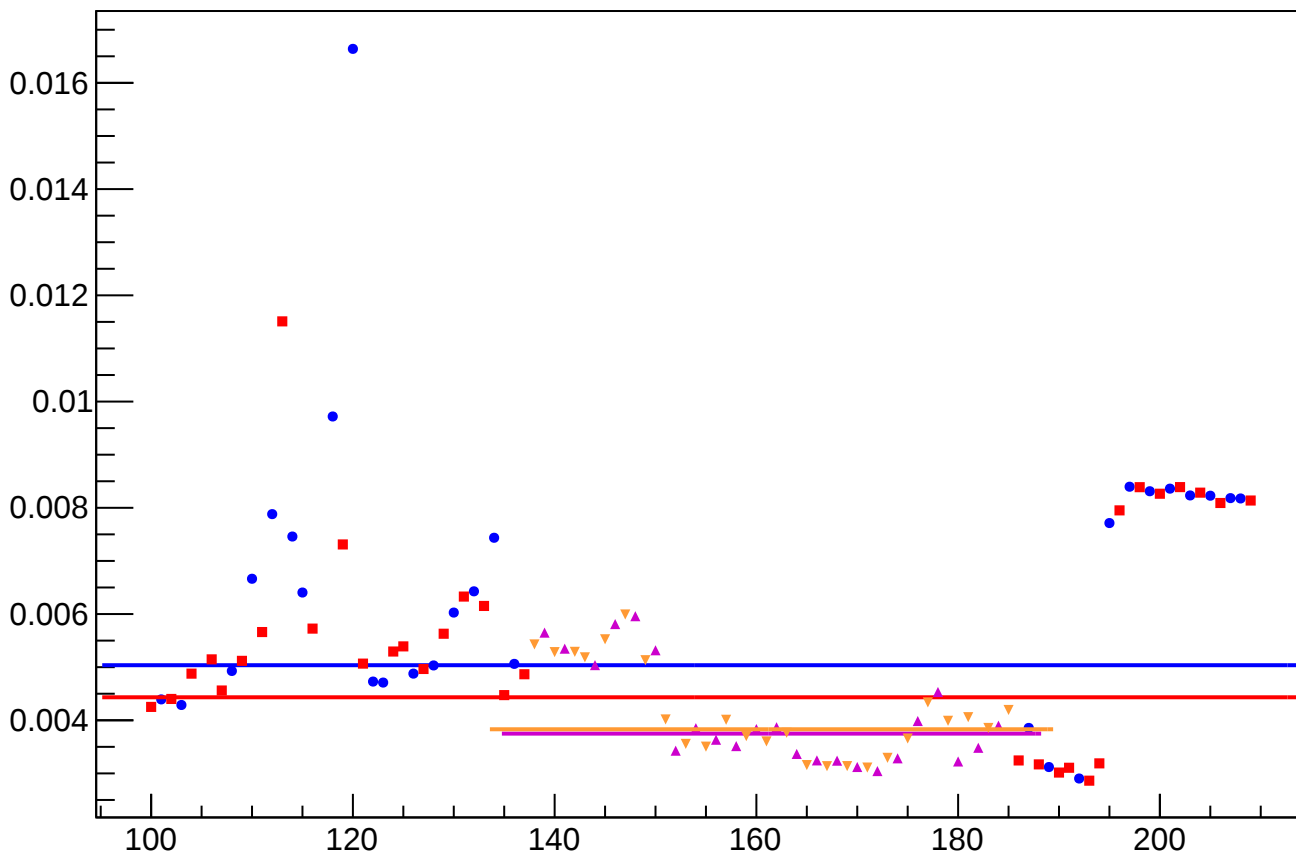
Left In: -0.868+/-0.000

χ^2/NDF : 43853190177.2/22

All: -1.133+/-0.000

χ^2/NDF : 1093609298285

yield_bpm0i07X_rms vs Slug, Sign Corrected



Right In: 0.005 $\pm$ 0.000 χ^2 /NDF: 3848795.1/27

Left Out: 0.004 $\pm$ 0.000 χ^2 /NDF:1179801.7/24

Right Out: 0.004 $\pm$ 0.000 χ^2 /NDF: 4093066.0/31

Left In: 0.004 $\pm$ 0.000 χ^2 /NDF:1288490.4/22

Left: 0.004 $\pm$ 0.000 χ^2 /NDF: 2475792.1/47

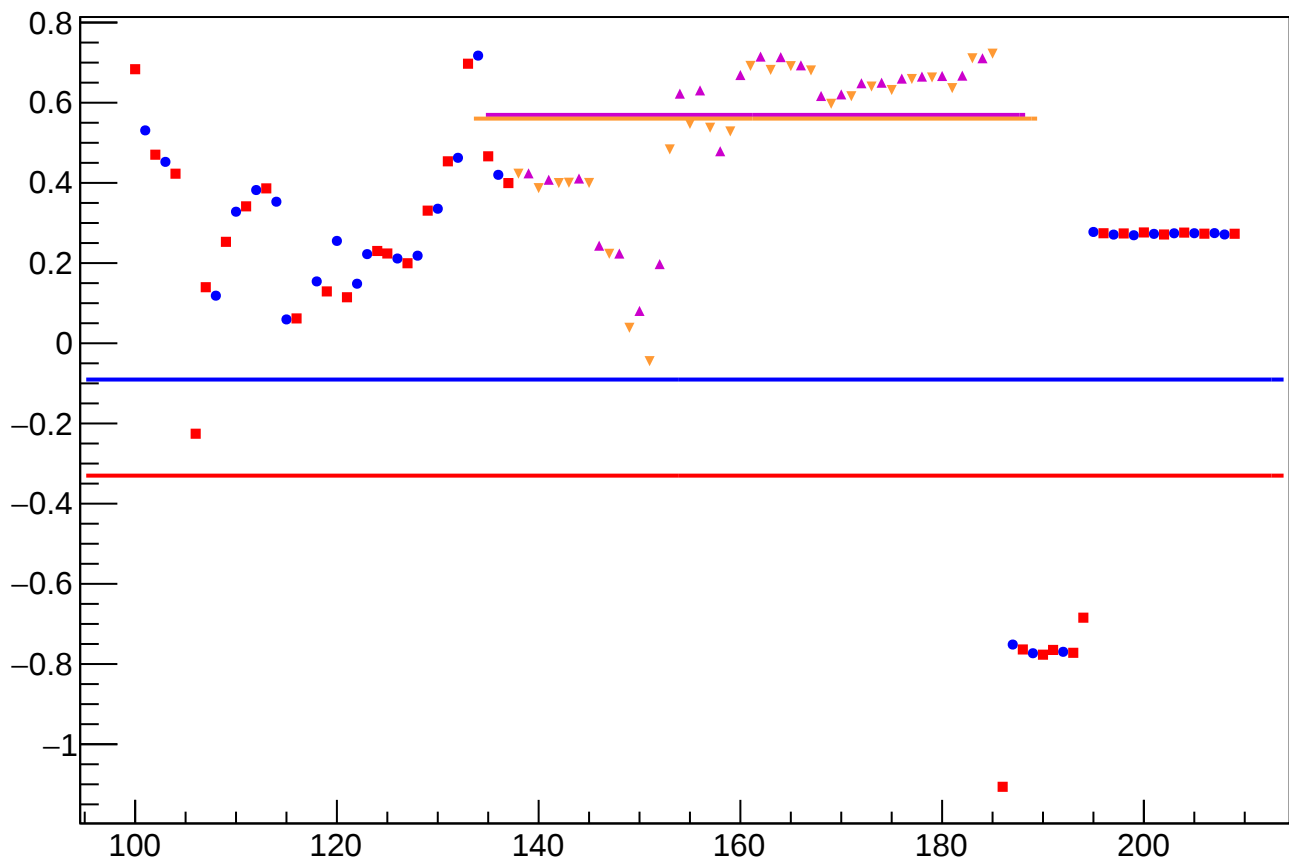
Right: 0.005 $\pm$ 0.000 χ^2 /NDF: 8134808.5/59

In: 0.004 $\pm$ 0.000 χ^2 /NDF:6201810.4/50

Out: 0.004 $\pm$ 0.000 χ^2 /NDF:5569043.4/56

All: 0.004 $\pm$ 0.000 χ^2 /NDF: 11778989.8/107

yield_bpm0i07Y_mean vs Slug, Sign Corrected



Right In: -0.090+/-0.000 χ^2/NDF : 285517875558.9/27

Left Out: 0.560+/-0.000 χ^2/NDF : 45205806387.2/24

Right Out: -0.330+/-0.000 χ^2/NDF : 463419092023.6/31

Left In: 0.570+/-0.000 χ^2/NDF : 42104067973.0/22

Left: 0.565+/-0.000 χ^2/NDF : 87378176036.1/47

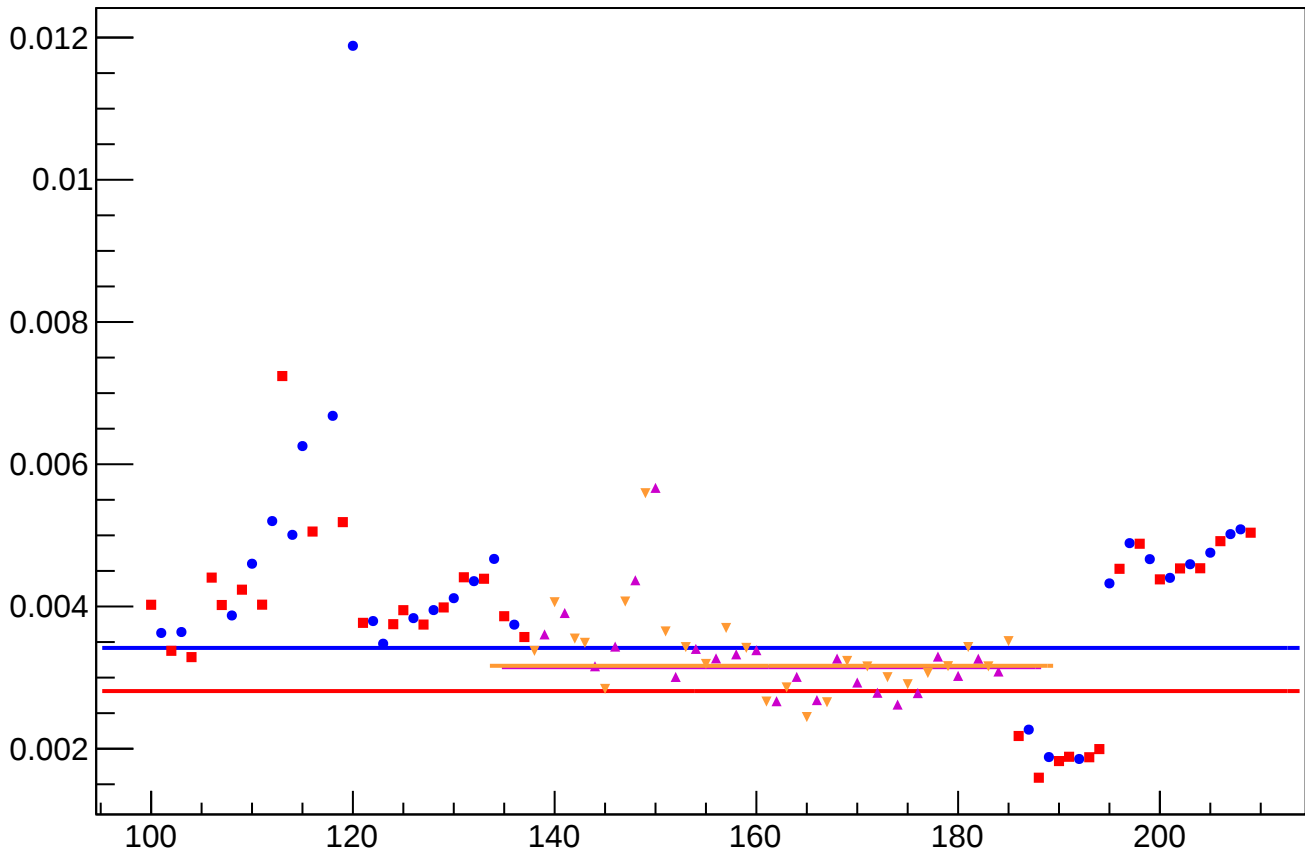
Right: -0.235+/-0.000 χ^2/NDF : 783806251706.5/59

In: 0.311+/-0.000 χ^2/NDF : 593567750379.4/50

Out: 0.127+/-0.000 χ^2/NDF : 1133888224400.9/56

All: 0.209+/-0.000 χ^2/NDF : 1775563966137.

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 : 4795579.0/31

Left In: 0.003+/-0.000 χ^2/NDF : 716402.8/22

Left: 0.003+/-0.000 χ^2/NDF : 1461906.1/47

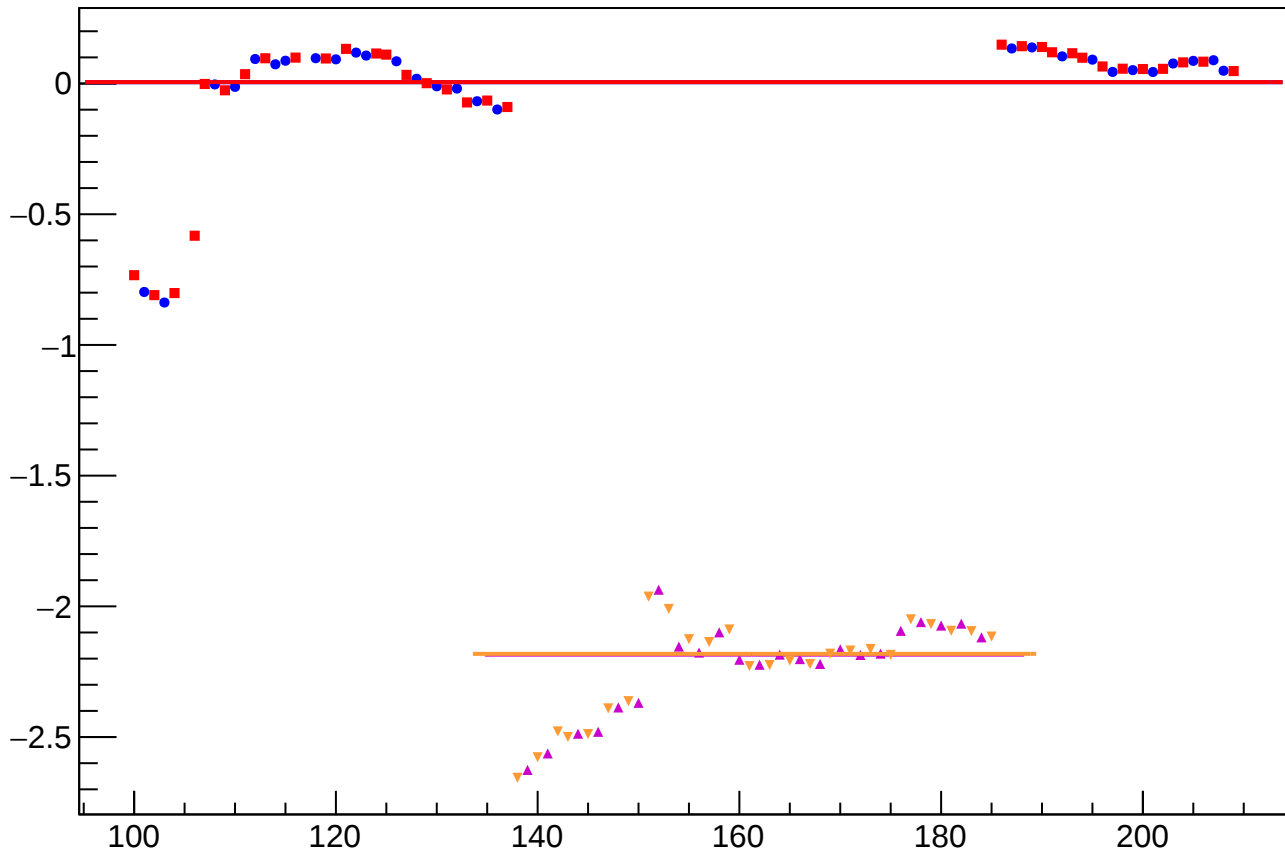
Right: 0.003+/-0.000 χ^2/NDF : 8666650.9/59

In: 0.003+/-0.000 χ^2/NDF : 4230103.2/50

Out: 0.003+/-0.000 χ^2/NDF : 5739735.0/56

All: 0.003+/-0.000 χ^2/NDF : 10160405.6/107

yield_bpm1i02X_mean vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 5894125218.2/27

Left Out: -2.182+/-0.000 χ^2/NDF : 4008829567.0/24

Right Out: 0.005+/-0.000 χ^2/NDF : 6965059566.3/31

Left In: -2.185+/-0.000 χ^2/NDF : 3372742534.3/22

Left: -2.183+/-0.000 χ^2/NDF : 7382310821.5/47

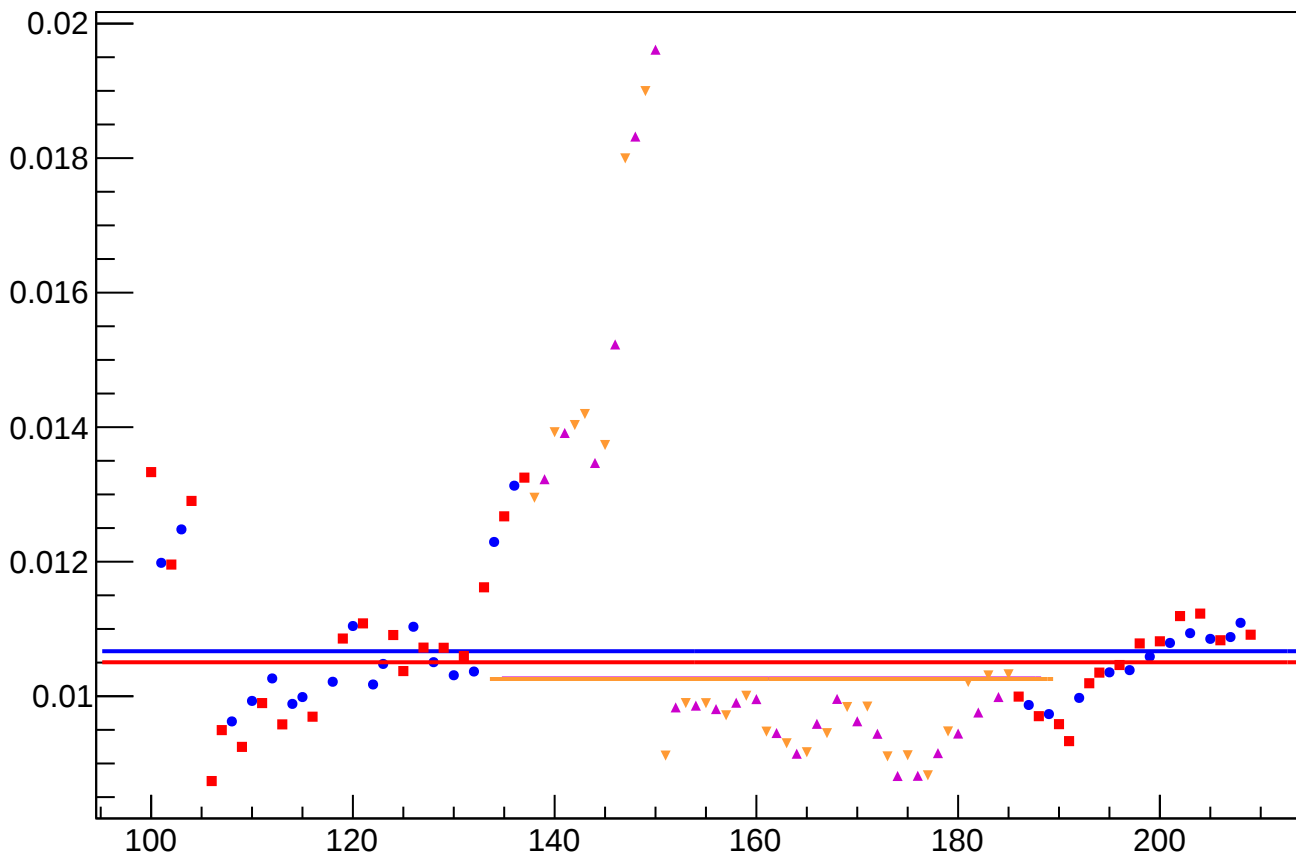
Right: 0.005+/-0.000 χ^2/NDF : 12859198008.0/59

In: -1.212+/-0.000 χ^2/NDF : 344407487642.9/50

Out: -1.179+/-0.000 χ^2/NDF : 378750689977.0/56

All: -1.195+/-0.000 χ^2/NDF : 723318625816.8

yield_bpm1i02X_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 153779.9/27

Left Out: 0.010+/-0.000 χ^2/NDF :1270617.6/24

Right Out: 0.011+/-0.000 χ^2/NDF : 225421.0/31

Left In: 0.010+/-0.000 χ^2/NDF :1340264.2/22

Left: 0.010+/-0.000 χ^2/NDF : 2610893.2/47

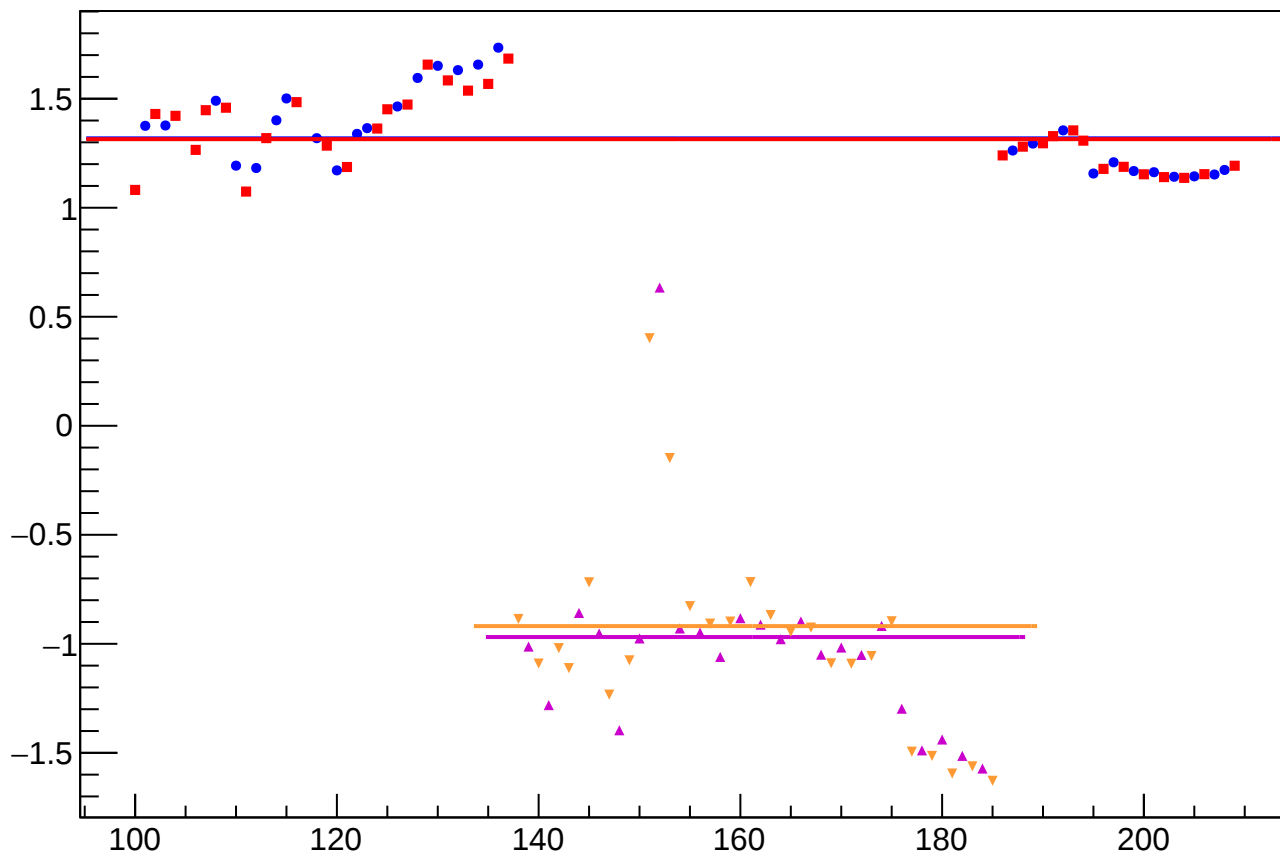
Right: 0.011+/-0.000 χ^2/NDF : 382801.5/59

In: 0.010+/-0.000 χ^2/NDF :1516938.9/50

Out: 0.010+/-0.000 χ^2/NDF :1505551.9/56

All: 0.010+/-0.000 χ^2/NDF : 3024114.7/107

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: 1.316+/-0.000

χ^2/NDF : 13620490128.9/59

Right Out: 1.315+/-0.000

χ^2/NDF : 5977970037.9/31

In: 0.190+/-0.000

χ^2/NDF : 697465007710.3/50

Out: 0.246+/-0.000

χ^2/NDF : 717717441962.2/56

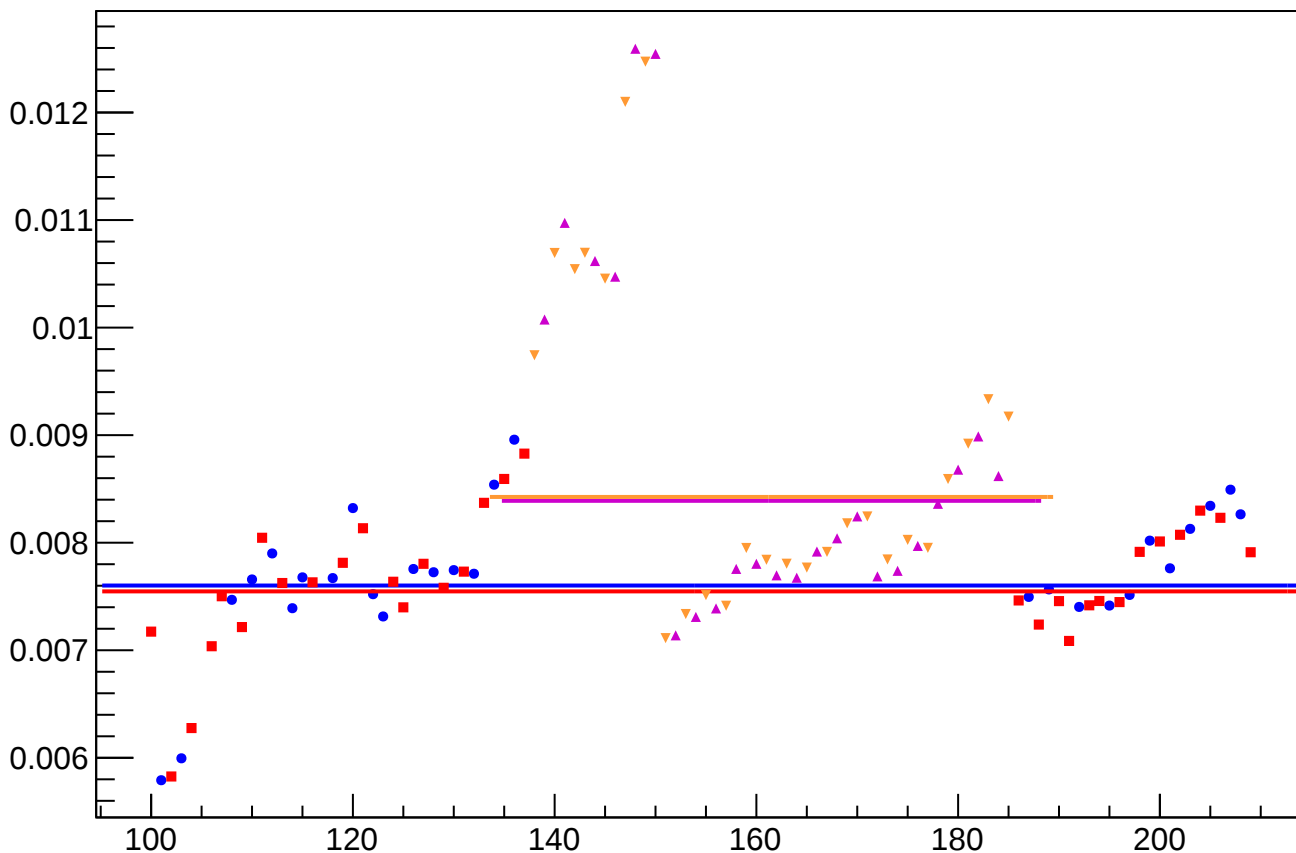
Left In: -0.969+/-0.000

χ^2/NDF : 54895002535.8/22

All: 0.220+/-0.000

χ^2/NDF : 1415972853236.

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 : 227891.6/31

Left In: 0.008+/-0.000 χ^2/NDF : 839880.4/22

Left: 0.008+/-0.000 χ^2/NDF : 1632536.0/47

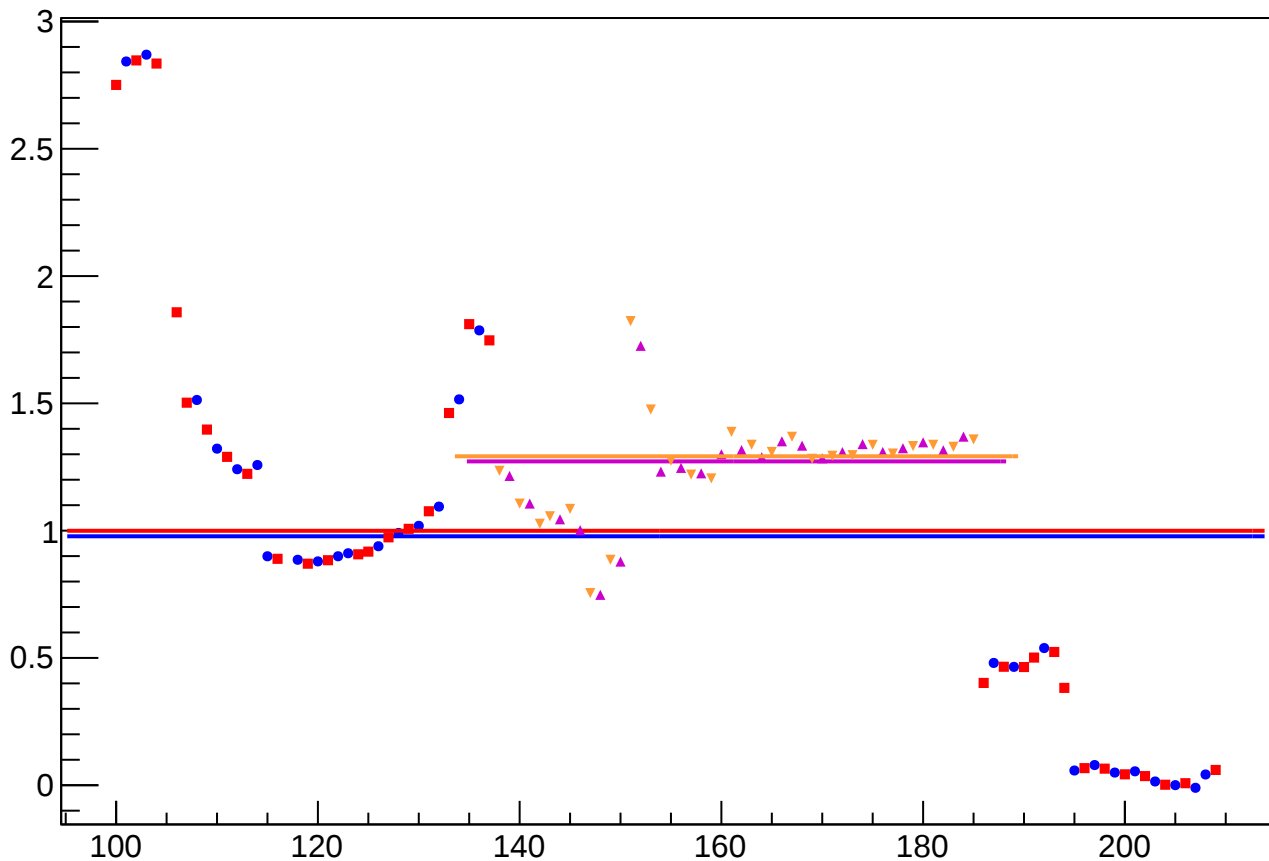
Right: 0.008+/-0.000 χ^2/NDF : 526071.2/59

In: 0.008+/-0.000 χ^2/NDF : 1287903.9/50

Out: 0.008+/-0.000 χ^2/NDF : 1223106.2/56

All: 0.008+/-0.000 χ^2/NDF : 2511273.8/107

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: 0.999 $\pm$ 0.000 χ^2/NDF : 123688785595.4/31

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

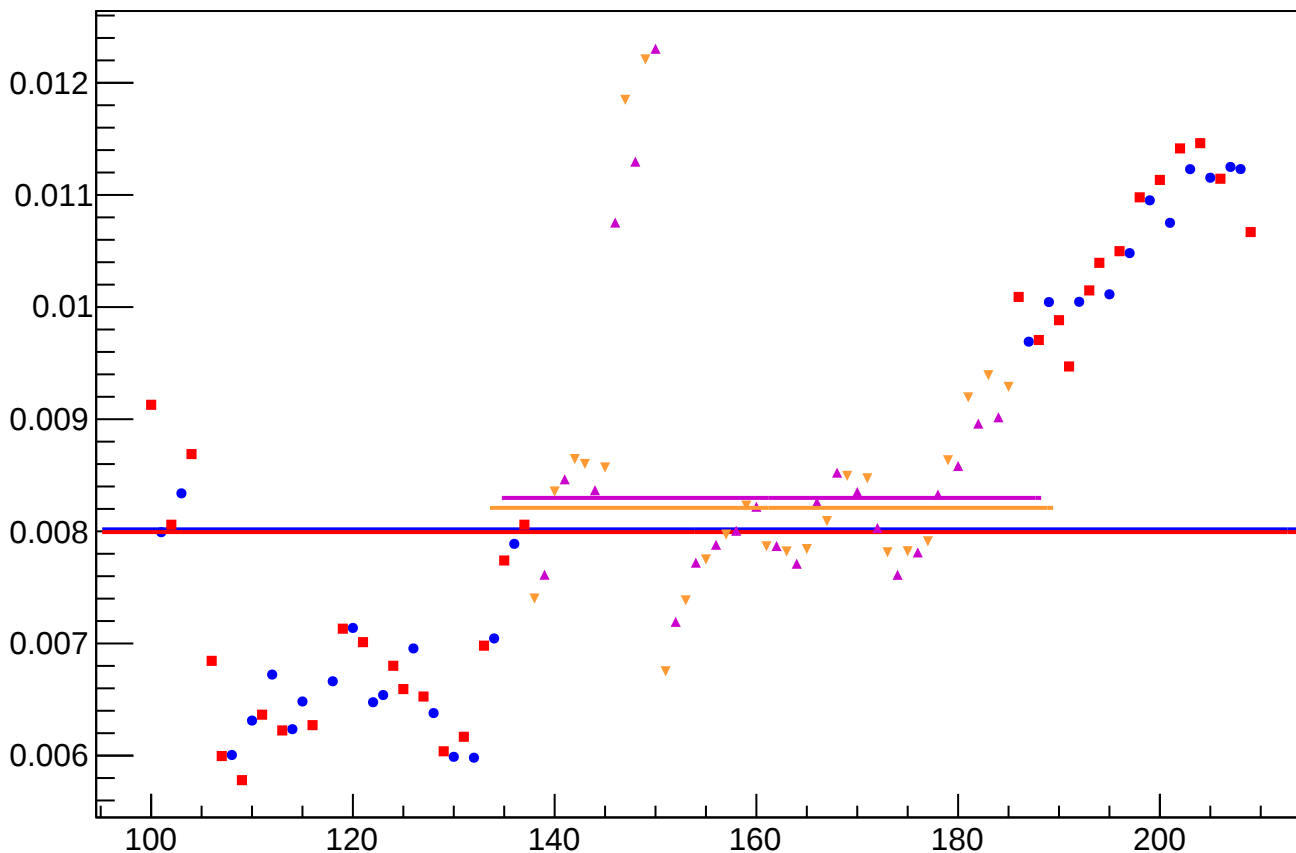
Right: 0.989 $\pm$ 0.000 χ^2/NDF : 249928545006.5/59

In: 1.135 $\pm$ 0.000 χ^2/NDF : 143559684085.3/50

Out: 1.155 $\pm$ 0.000 χ^2/NDF : 143574146836.3/56

All: 1.145 $\pm$ 0.000 χ^2/NDF : 287222404778.9

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 : 1784628.4/31

Left In: 0.008+/-0.000 χ^2/NDF : 462022.1/22

Left: 0.008+/-0.000 χ^2/NDF : 942877.3/47

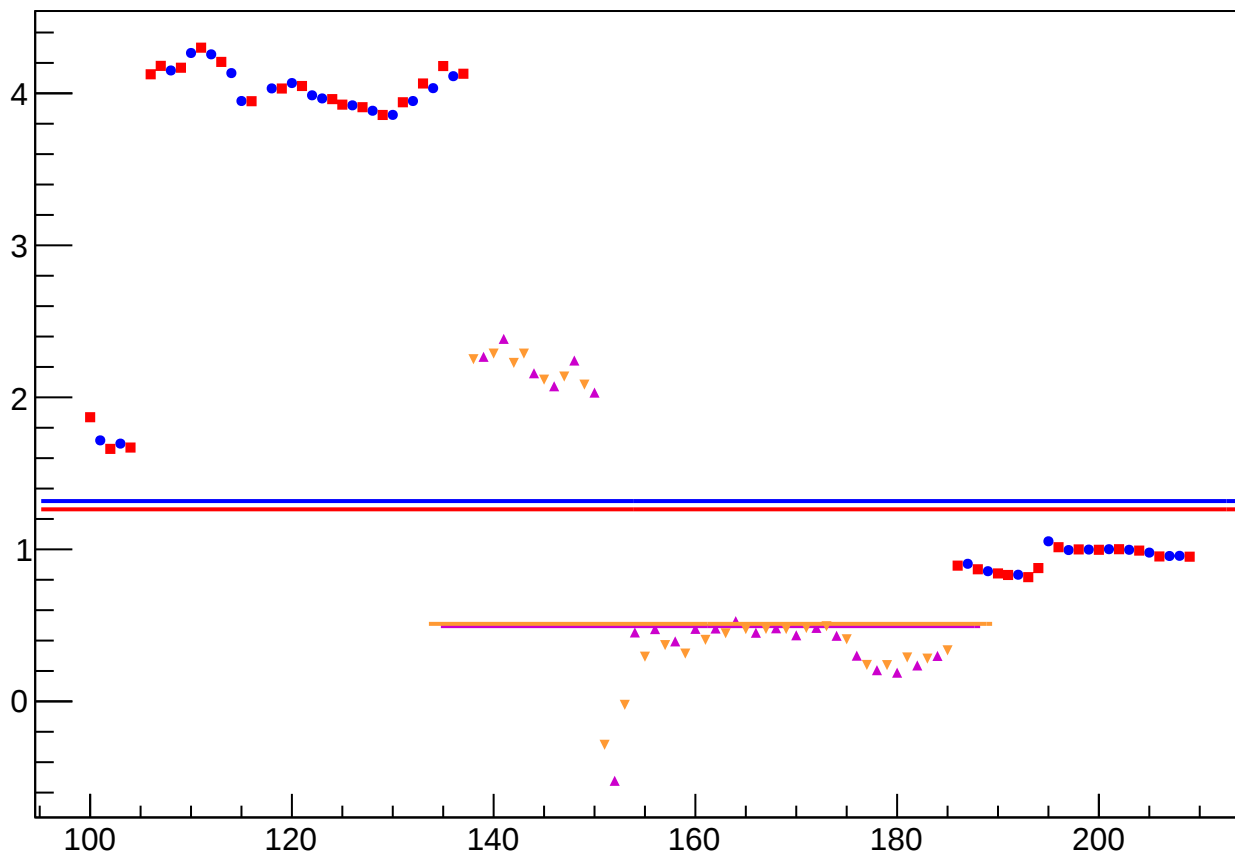
Right: 0.008+/-0.000 χ^2/NDF : 3376810.2/59

In: 0.008+/-0.000 χ^2/NDF : 2071902.4/50

Out: 0.008+/-0.000 χ^2/NDF : 2275034.4/56

All: 0.008+/-0.000 χ^2/NDF : 4348637.6/107

yield_bpm1i04Y_mean vs Slug, Sign Corrected



Right In: 1.318+/-0.000

χ^2/NDF : 1487026980578.5/27

Left: 0.503+/-0.000 χ^2/NDF : 543767842878.3/47

Right: 1.288+/-0.000 χ^2/NDF : 3186337282419.4/59

Left Out: 0.510+/-0.000

χ^2/NDF : 274818814912.4/24

In: 1.053+/-0.000 χ^2/NDF : 2103604238431.2/50

Right Out: 1.263+/-0.000

χ^2/NDF : 1696766812326.1/31

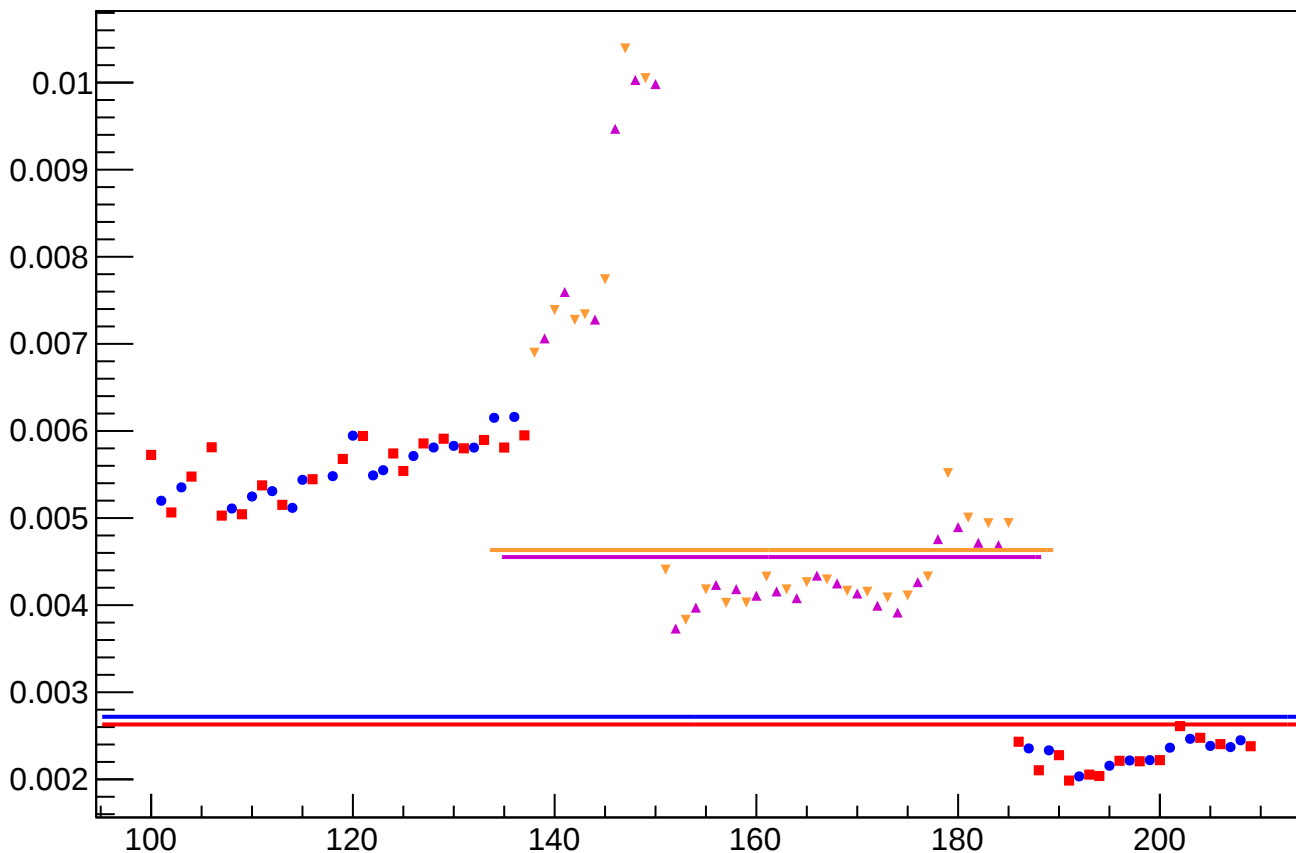
Out: 1.042+/-0.000 χ^2/NDF : 2282889442703.9/56

Left In: 0.495+/-0.000

χ^2/NDF : 268863202792.4/22

All: 1.047+/-0.000 χ^2/NDF : 4386635601777.0

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 : 4454983.8/31

Left In: 0.005+/-0.000 χ^2/NDF :2237666.9/22

Left: 0.005+/-0.000 χ^2/NDF : 4356682.7/47

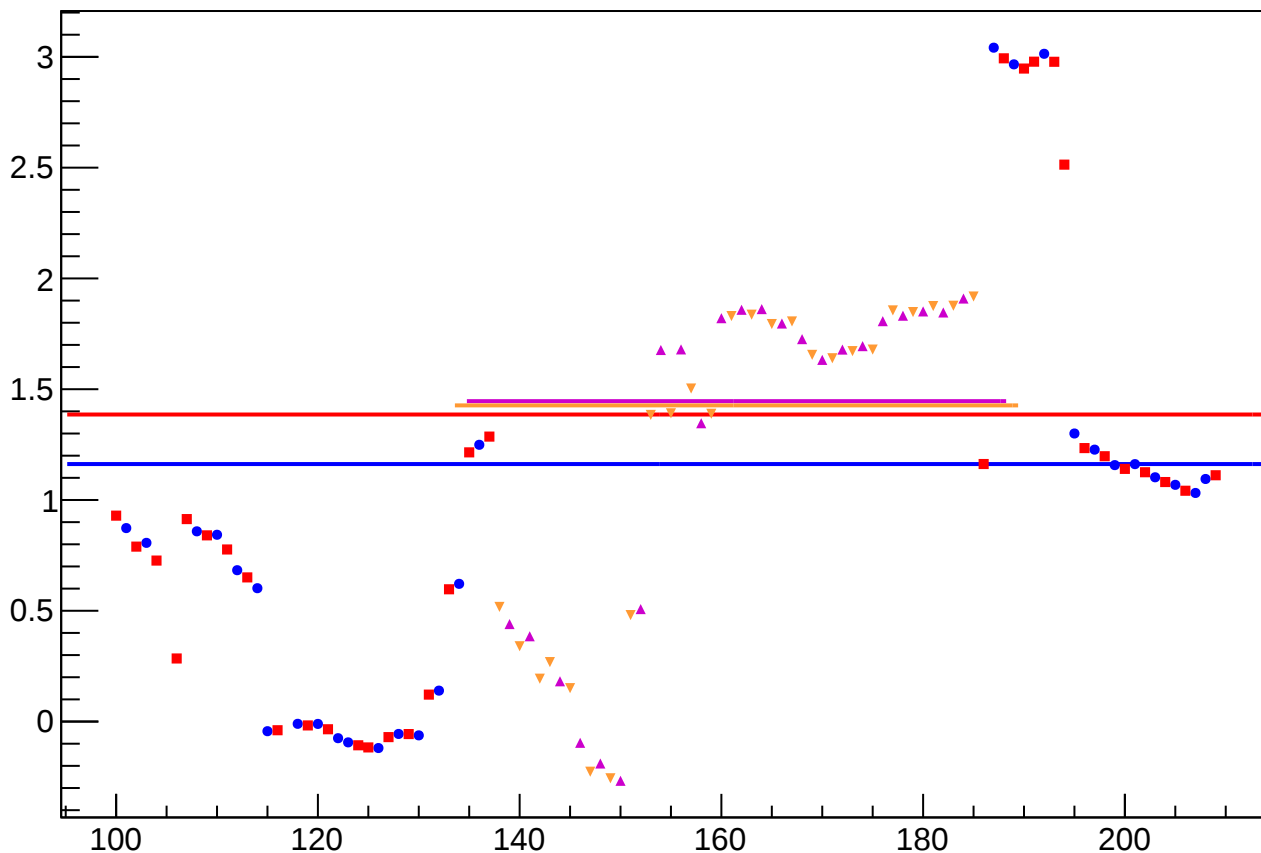
Right: 0.003+/-0.000 χ^2/NDF : 8598066.7/59

In: 0.003+/-0.000 χ^2/NDF :9822544.4/50

Out: 0.003+/-0.000 χ^2/NDF :10969305.0/56

All: 0.003+/-0.000 χ^2/NDF : 20812280.4/107

yield_bpm1i06X_mean vs Slug, Sign Corrected



Right In: 1.162 $\pm$ 0.000

χ^2 /NDF: 72794159230.0/27

Left Out: 1.427 $\pm$ 0.000

χ^2 /NDF: 49990787038.3/24

Right Out: 1.386 $\pm$ 0.000

χ^2 /NDF: 100493899064.3/31

Left In: 1.446 $\pm$ 0.000

χ^2 /NDF: 53752493130.3/22

Left: 1.436 $\pm$ 0.000

χ^2 /NDF: 103768857952.7/47

Right: 1.282 $\pm$ 0.000

χ^2 /NDF: 175523908398.4/59

In: 1.339 $\pm$ 0.000

χ^2 /NDF: 130736472864.5/50

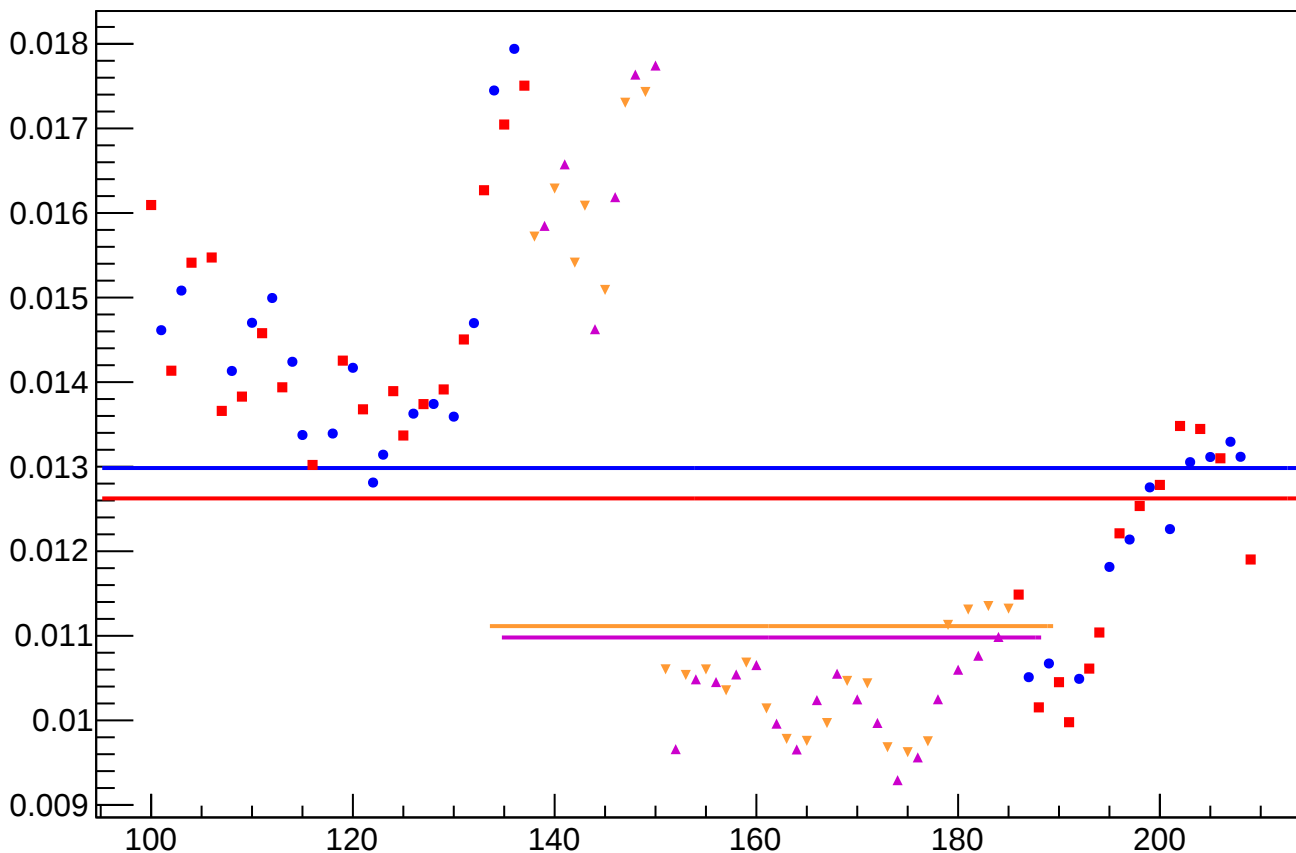
Out: 1.410 $\pm$ 0.000

χ^2 /NDF: 150582063814.6/56

All: 1.376 $\pm$ 0.000

χ^2 /NDF: 281907572591.9

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 : 566108.1/31

Left In: 0.011+/-0.000 χ^2/NDF :1264827.0/22

Left: 0.011+/-0.000 χ^2/NDF : 2494847.1/47

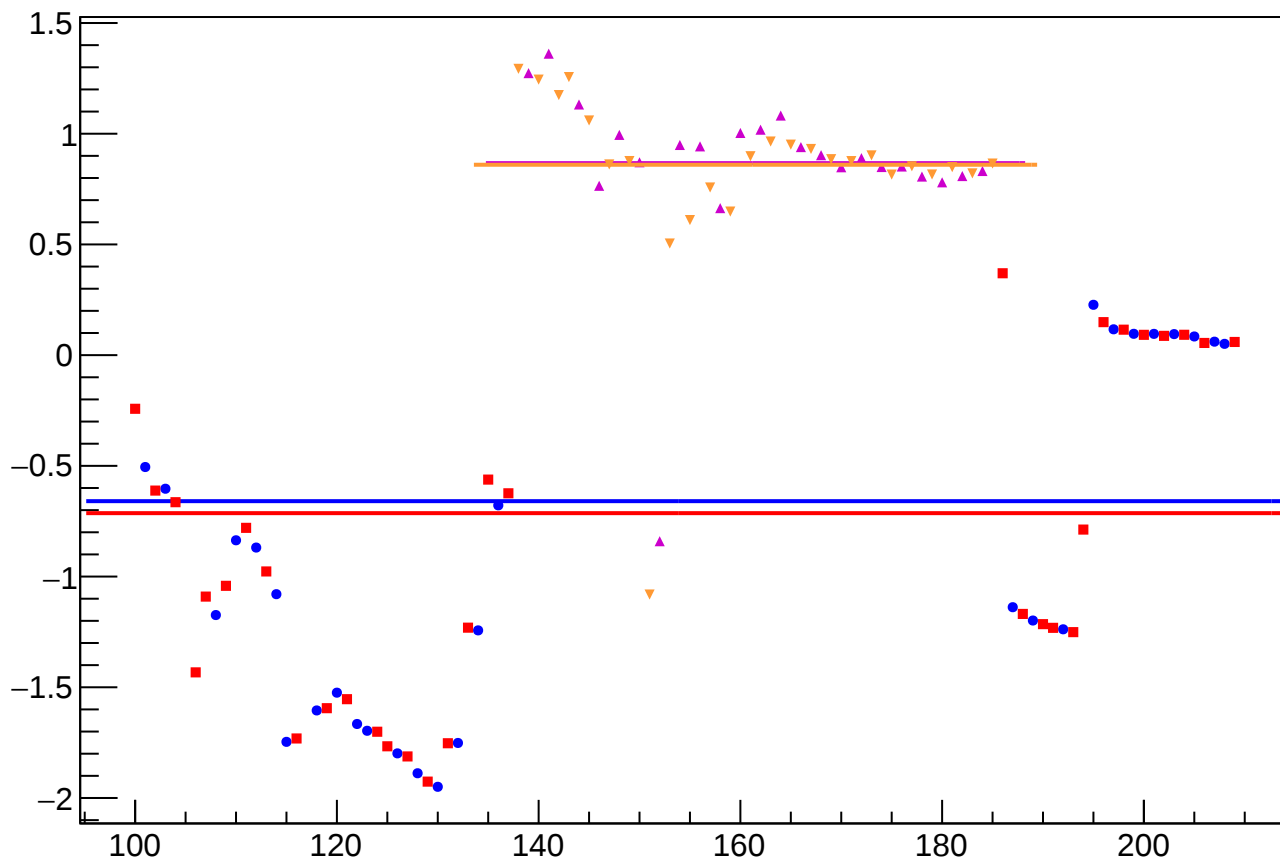
Right: 0.013+/-0.000 χ^2/NDF : 1013820.5/59

In: 0.012+/-0.000 χ^2/NDF :2118329.7/50

Out: 0.012+/-0.000 χ^2/NDF :2055181.5/56

All: 0.012+/-0.000 χ^2/NDF : 4173559.7/107

yield_bpm1i06Y_mean vs Slug, Sign Corrected



Right In: -0.659+/-0.000 χ^2/NDF : 177685317968.8/27

Left Out: 0.860+/-0.000 χ^2/NDF : 126335891175.4/24

Right Out: -0.714+/-0.000 χ^2/NDF : 166266758178.9/31

Left In: 0.867+/-0.000 χ^2/NDF : 147039402944.6/22

Left: 0.863+/-0.000 χ^2/NDF : 273407894621.9/47

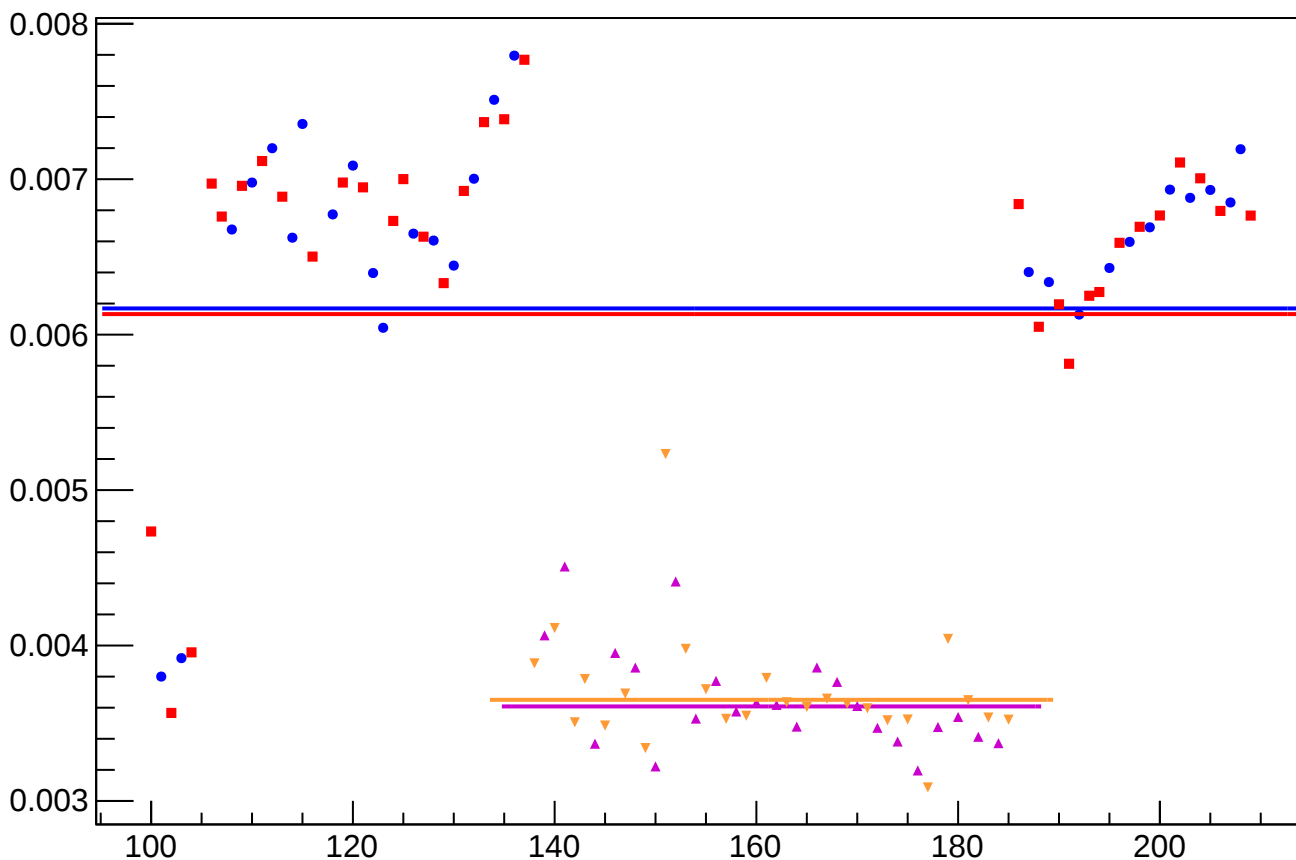
Right: -0.688+/-0.000 χ^2/NDF : 344488970070.7/59

In: 0.525+/-0.000 χ^2/NDF : 955021679682.8/50

Out: 0.489+/-0.000 χ^2/NDF : 1023204044543.3/56

All: 0.507+/-0.000 χ^2/NDF : 1979243044123.

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 : 1101855.8/31

Left In: 0.004+/-0.000 χ^2/NDF :227861.4/22

Left: 0.004+/-0.000 χ^2/NDF : 467360.2/47

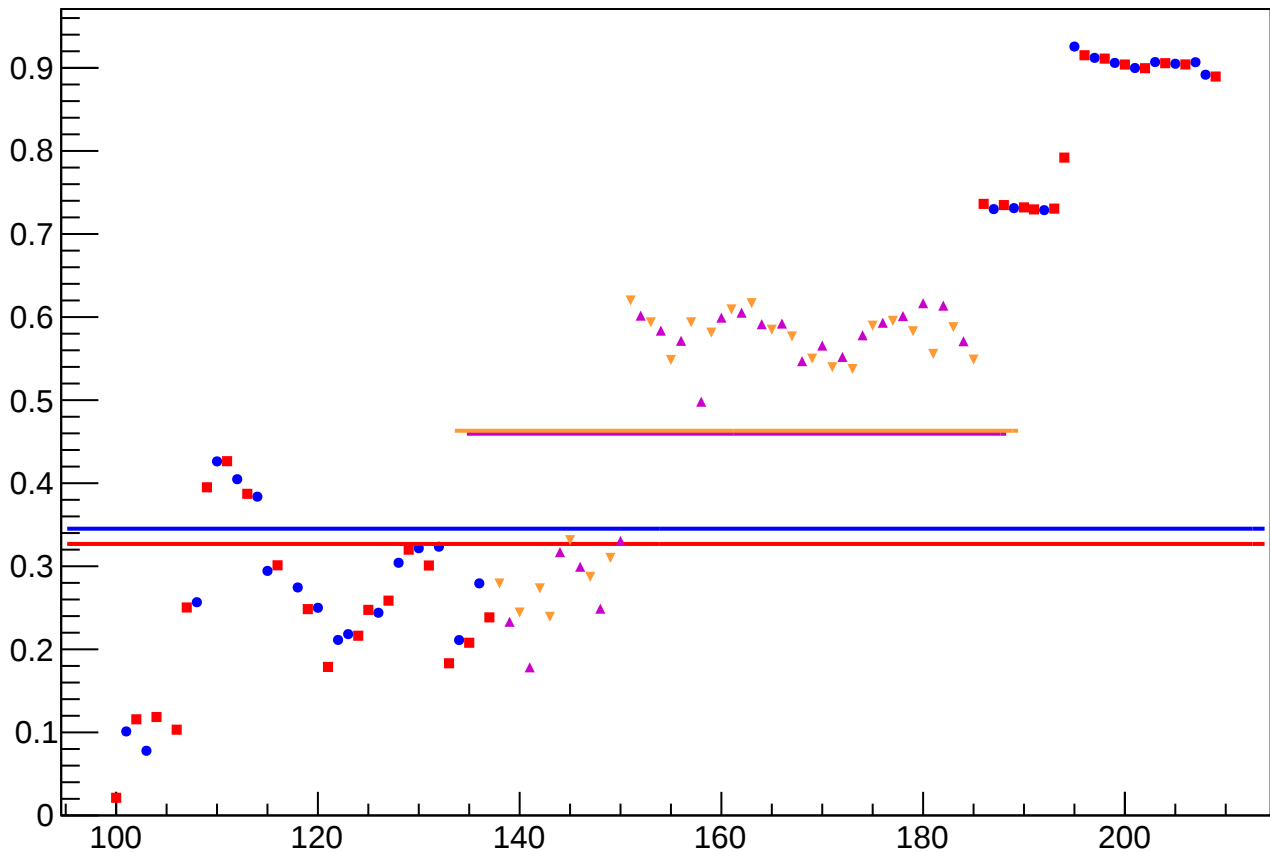
Right: 0.006+/-0.000 χ^2/NDF : 2125891.2/59

In: 0.004+/-0.000 χ^2/NDF :4797218.7/50

Out: 0.004+/-0.000 χ^2/NDF :4972969.1/56

All: 0.004+/-0.000 χ^2/NDF : 9774706.1/107

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: 0.336+/-0.000 χ^2/NDF : 331998498606.0/59

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: 0.327+/-0.000

χ^2/NDF : 174182923742.8/31

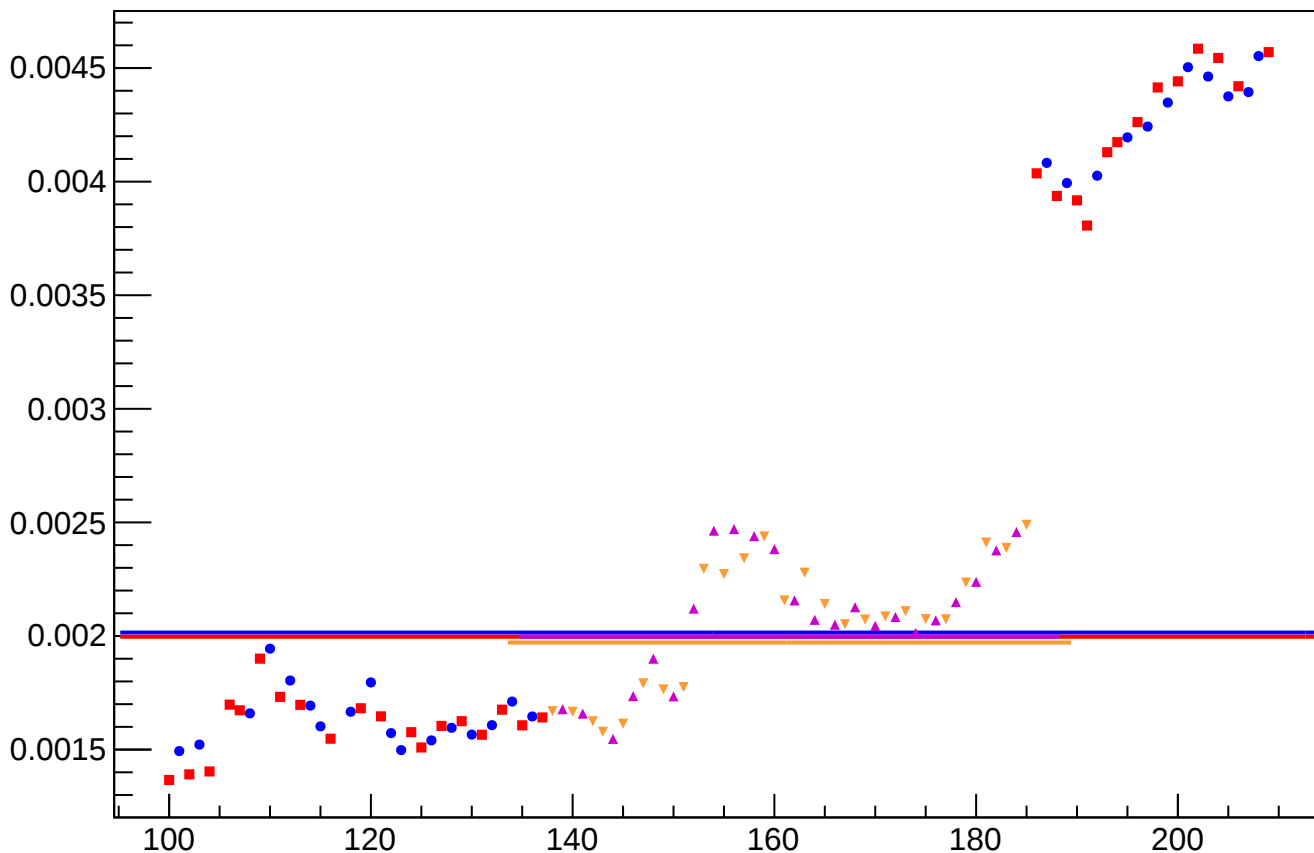
Out: 0.407+/-0.000 χ^2/NDF : 311691701919.5/56

Left In: 0.460+/-0.000

χ^2/NDF : 104559088628.4/22

All: 0.410+/-0.000 χ^2/NDF : 595914176769.5

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 : 5910333.8/31

Left In: 0.002+/-0.000 χ^2/NDF : 666404.2/22

Left: 0.002+/-0.000 χ^2/NDF : 1399578.1/47

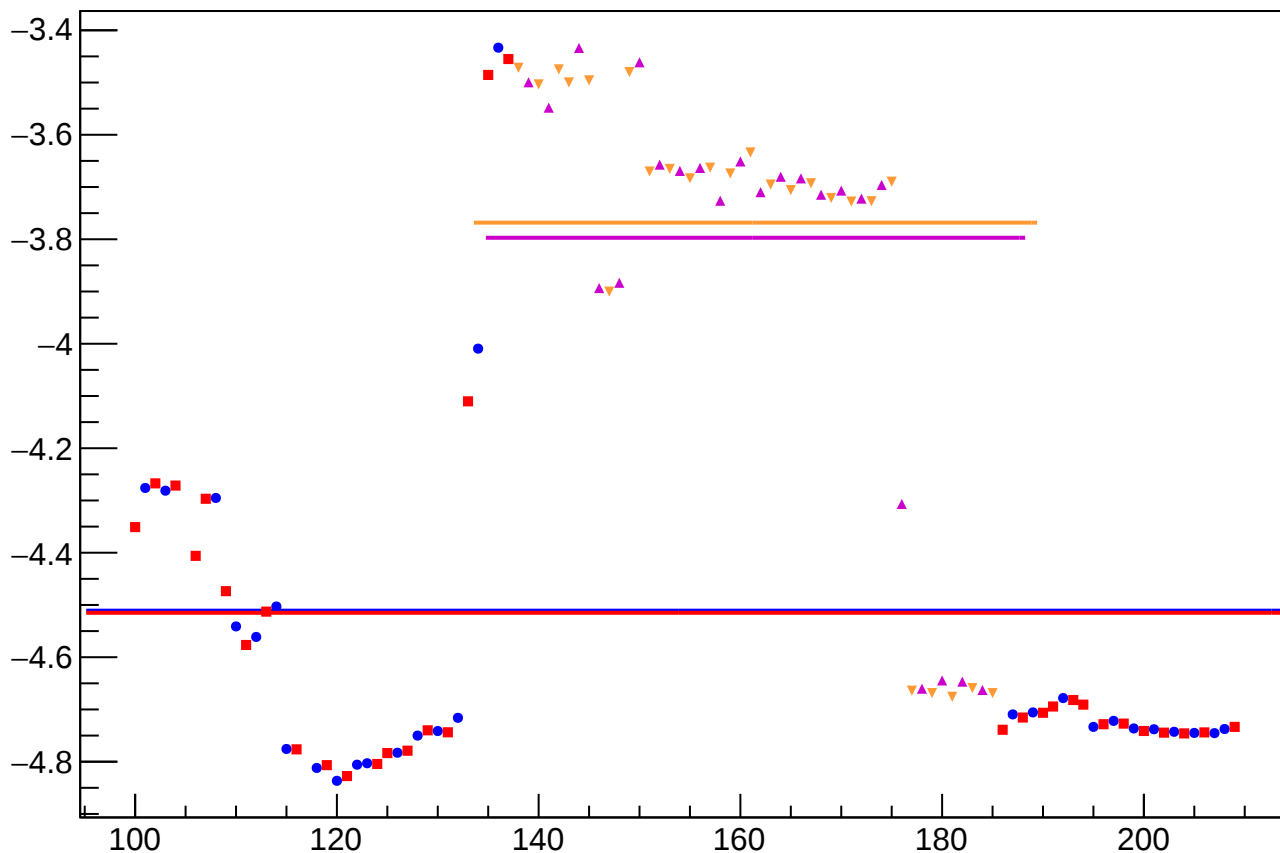
Right: 0.002+/-0.000 χ^2/NDF : 11076433.8/59

In: 0.002+/-0.000 χ^2/NDF : 5832569.2/50

Out: 0.002+/-0.000 χ^2/NDF : 6642976.8/56

All: 0.002+/-0.000 χ^2/NDF : 12479432.4/107

yield_bpm2i01Y_mean vs Slug, Sign Corrected



Right In: -4.511+/-0.000

χ^2/NDF : 436061110773.3/27

Left Out: -3.768+/-0.000

χ^2/NDF : 516780173940.8/24

Right Out: -4.515+/-0.000

χ^2/NDF : 373428230713.9/31

Left In: -3.797+/-0.000

χ^2/NDF : 444886272608.9/22

Left: -3.782+/-0.000

χ^2/NDF : 963205684454.6/47

Right: -4.513+/-0.000

χ^2/NDF : 809512138955.1/59

In: -4.104+/-0.000

χ^2/NDF : 1658721599063.3/50

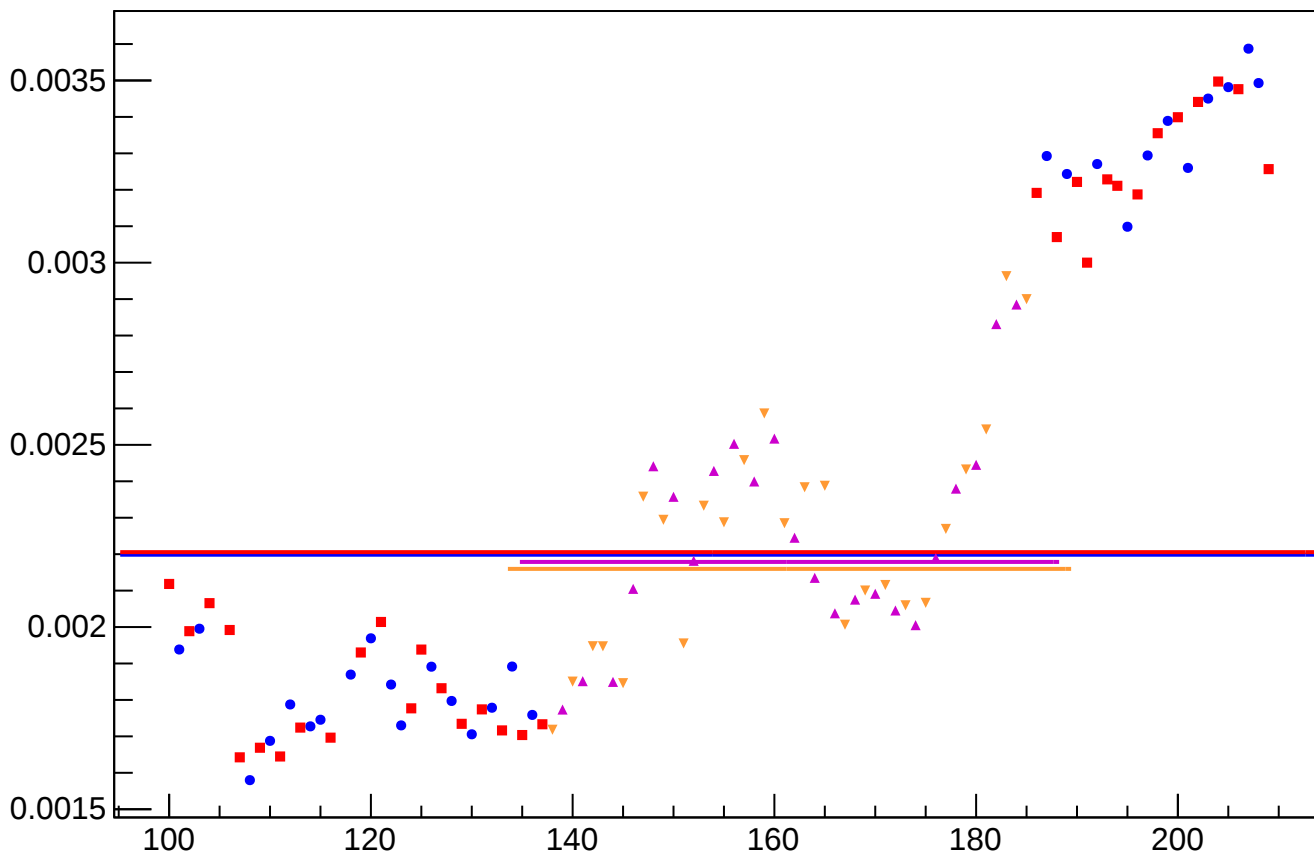
Out: -4.093+/-0.000

χ^2/NDF : 1814088416955.0/56

All: -4.098+/-0.000

χ^2/NDF : 3473229927231

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 : 2678339.4/31

Left In: 0.002+/-0.000 χ^2/NDF :463279.7/22

Left: 0.002+/-0.000 χ^2/NDF : 1012449.5/47

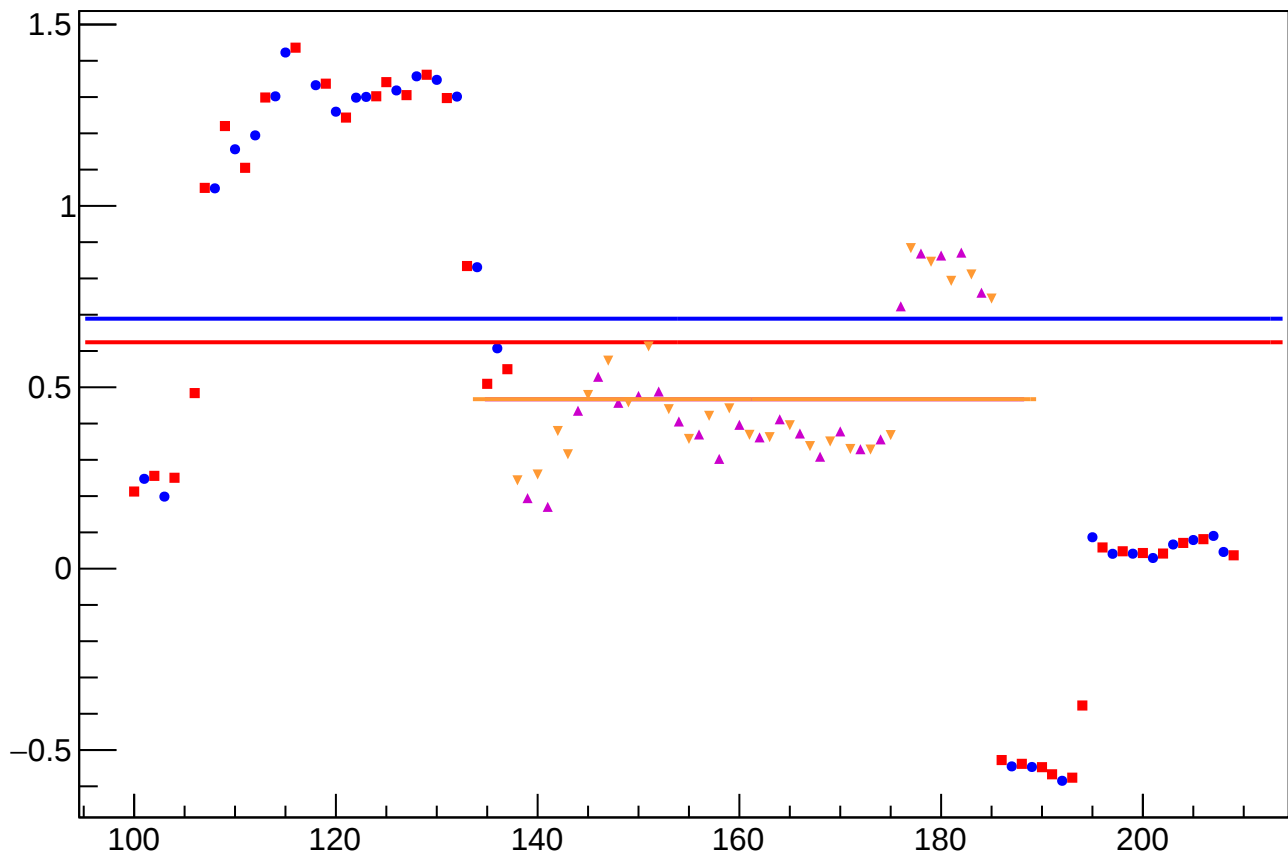
Right: 0.002+/-0.000 χ^2/NDF : 5177504.0/59

In: 0.002+/-0.000 χ^2/NDF :2963504.4/50

Out: 0.002+/-0.000 χ^2/NDF :3233164.8/56

All: 0.002+/-0.000 χ^2/NDF : 6197046.8/107

yield_bpm2i02X_mean vs Slug, Sign Corrected



Right In: 0.689+/-0.000 χ^2/NDF : 77190225365.5/27

Left Out: 0.467+/-0.000 χ^2/NDF : 7359344143.3/24

Right Out: 0.624+/-0.000 χ^2/NDF : 97702975399.0/31

Left In: 0.467+/-0.000 χ^2/NDF : 8036741308.0/22

Left: 0.467+/-0.000 χ^2/NDF : 15396100488.4/47

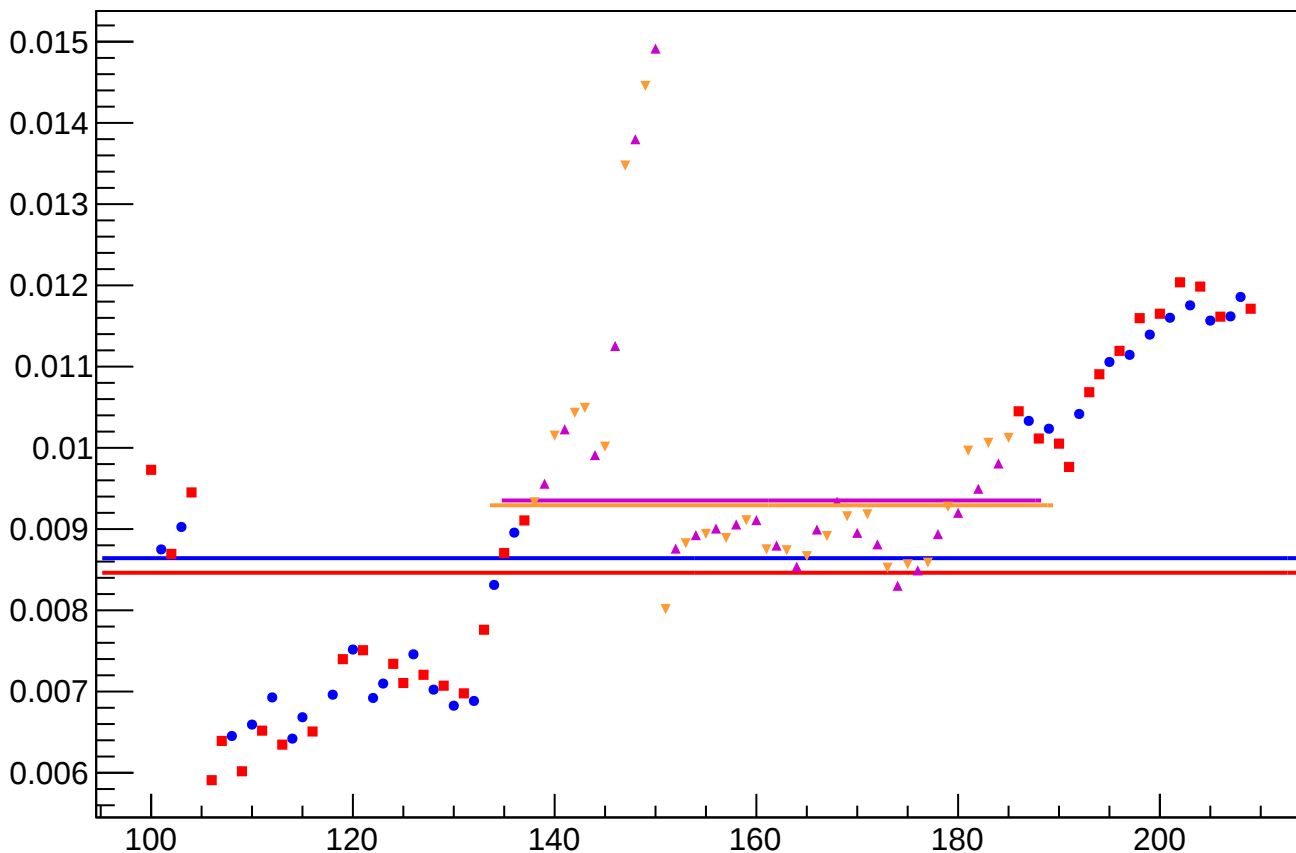
Right: 0.655+/-0.000 χ^2/NDF : 175304269673.2/59

In: 0.575+/-0.000 χ^2/NDF : 89883142797.2/50

Out: 0.545+/-0.000 χ^2/NDF : 107626909063.1/56

All: 0.559+/-0.000 χ^2/NDF : 197679343644.0

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 : 1800007.3/31

Left In: 0.009+/-0.000 χ^2/NDF :557555.2/22

Left: 0.009+/-0.000 χ^2/NDF : 1086539.3/47

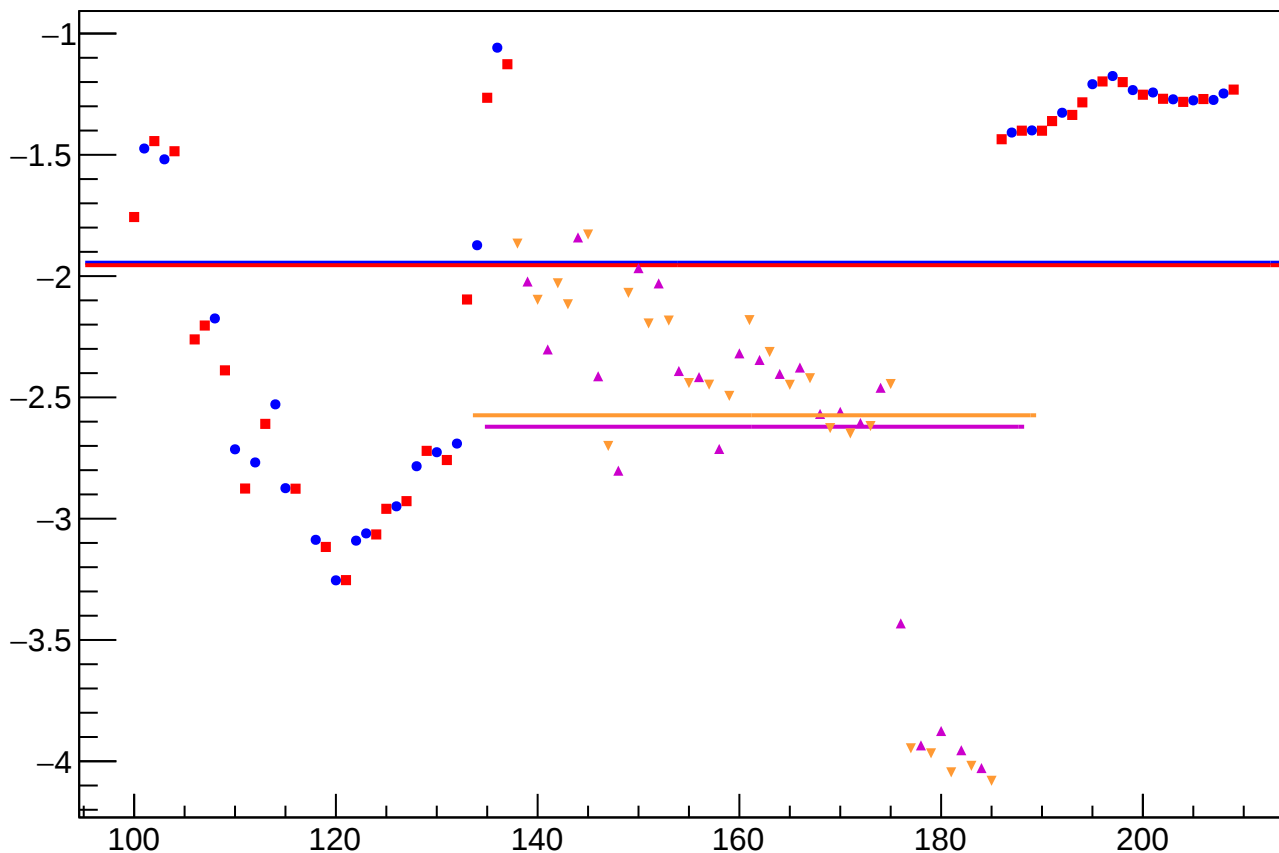
Right: 0.009+/-0.000 χ^2/NDF : 3239486.9/59

In: 0.009+/-0.000 χ^2/NDF :2085819.9/50

Out: 0.009+/-0.000 χ^2/NDF :2471972.2/56

All: 0.009+/-0.000 χ^2/NDF : 4564349.9/107

yield_bpm2i02Y_mean vs Slug, Sign Corrected



Right In: -1.945+/-0.000

χ^2/NDF : 126717272423.7/27

Left: -2.597+/-0.000

χ^2/NDF : 180296288698.4/47

Left Out: -2.574+/-0.000

χ^2/NDF : 99176112704.9/24

Right: -1.950+/-0.000

χ^2/NDF : 252070101656.1/59

Right Out: -1.955+/-0.000

χ^2/NDF : 125340898124.3/31

In: -2.287+/-0.000

χ^2/NDF : 258169694341.1/50

Out: -2.263+/-0.000

χ^2/NDF : 270508067051.0/56

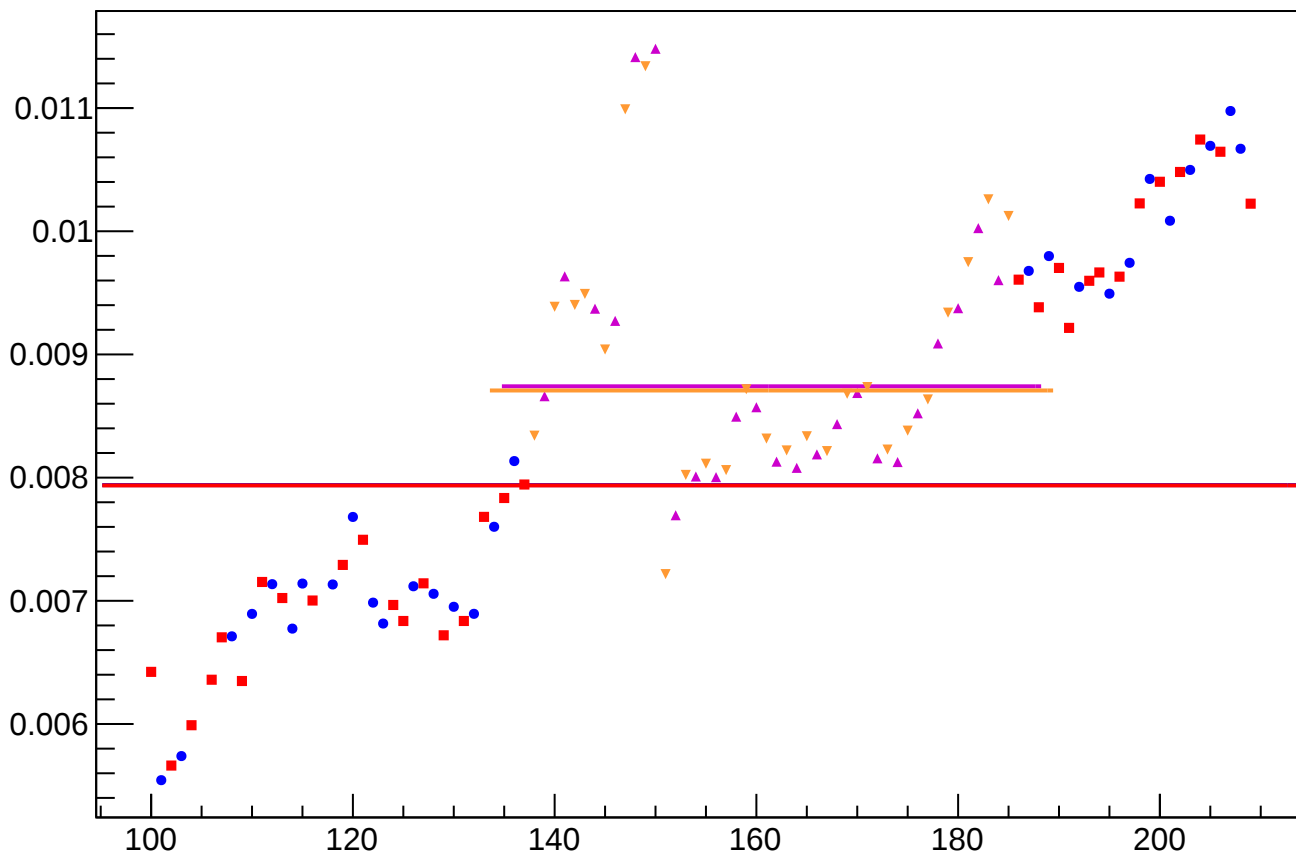
Left In: -2.621+/-0.000

χ^2/NDF : 80862402796.4/22

All: -2.275+/-0.000

χ^2/NDF : 528807969017.8

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 : 1307427.0/31

Left In: 0.009+/-0.000 χ^2/NDF :353750.0/22

Left: 0.009+/-0.000 χ^2/NDF : 723390.7/47

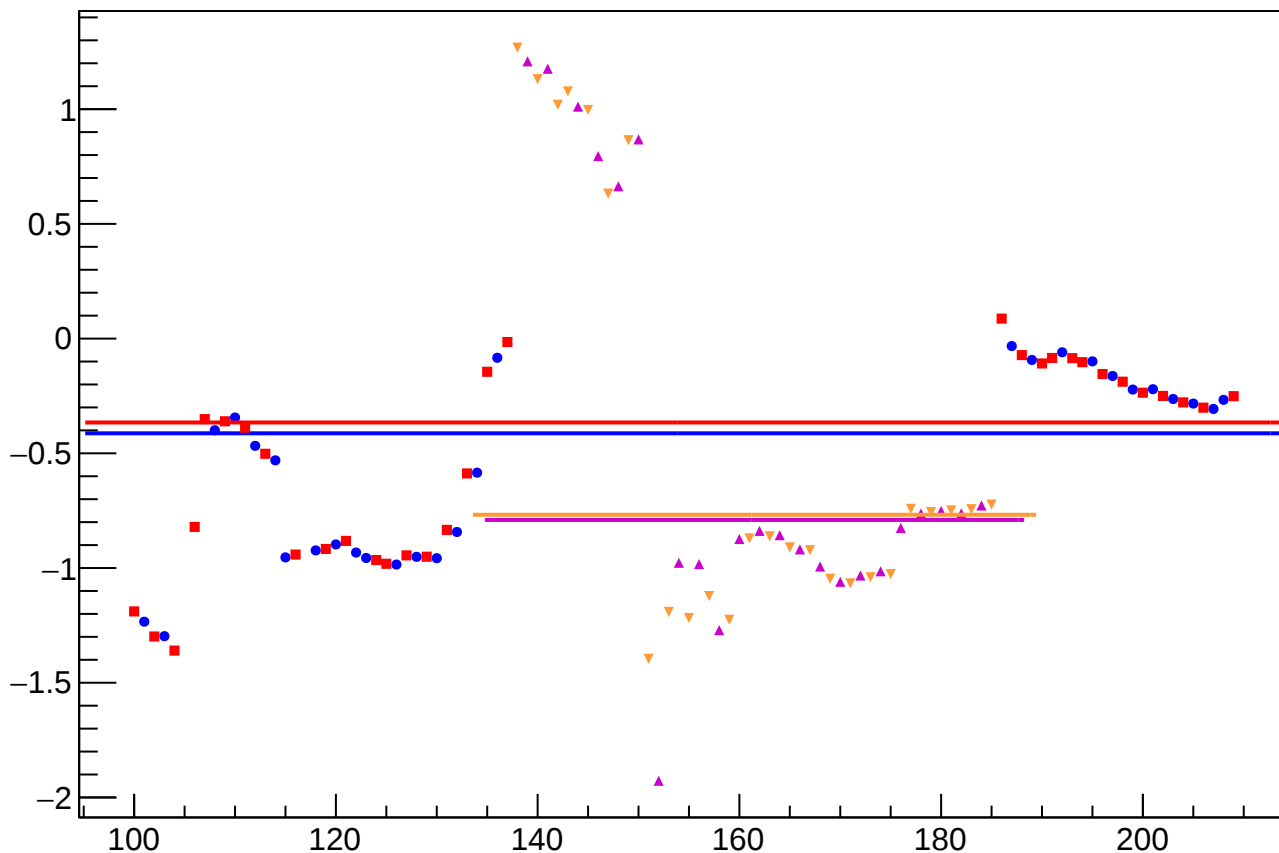
Right: 0.008+/-0.000 χ^2/NDF : 2614338.0/59

In: 0.008+/-0.000 χ^2/NDF :1802998.2/50

Out: 0.008+/-0.000 χ^2/NDF :1819490.3/56

All: 0.008+/-0.000 χ^2/NDF : 3622763.8/107

yield_bpm0i01X_mean vs Slug, Sign Corrected



Right In: -0.413+/-0.000 χ^2/NDF : 22642238690.7/27

Left Out: -0.768+/-0.000 χ^2/NDF : 120774855982.9/24

Right Out: -0.366+/-0.000 χ^2/NDF : 25228627994.9/31

Left In: -0.790+/-0.000 χ^2/NDF : 123452478408.2/22

Left: -0.779+/-0.000 χ^2/NDF : 244297726249.8/47

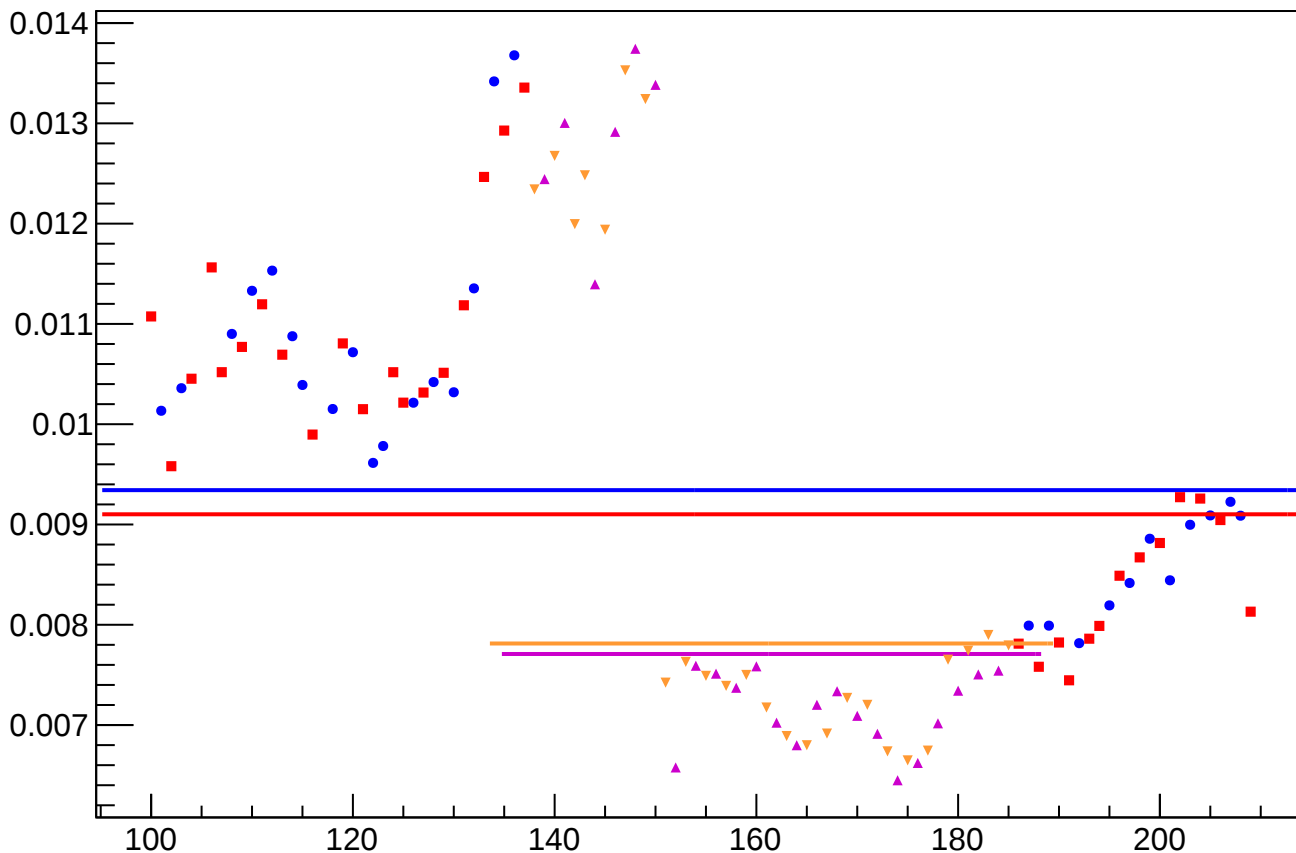
Right: -0.388+/-0.000 χ^2/NDF : 48061180308.1/59

In: -0.651+/-0.000 χ^2/NDF : 160450939233.3/50

Out: -0.609+/-0.000 χ^2/NDF : 163993549301.9/56

All: -0.629+/-0.000 χ^2/NDF : 324831771820.8

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 : 650304.6/31

Left In: 0.008+/-0.000 χ^2/NDF :1746653.6/22

Left: 0.008+/-0.000 χ^2/NDF : 3455681.9/47

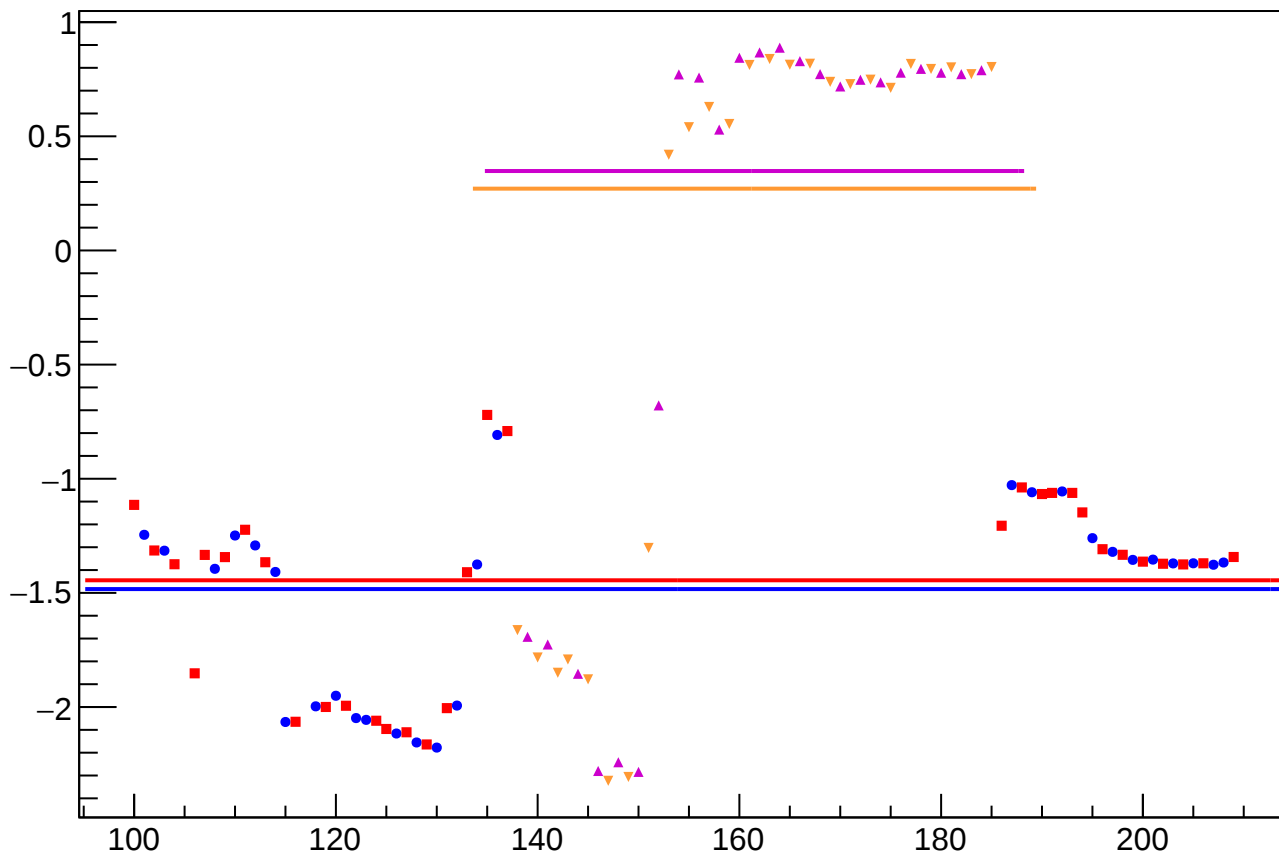
Right: 0.009+/-0.000 χ^2/NDF : 1202203.3/59

In: 0.008+/-0.000 χ^2/NDF :2826303.9/50

Out: 0.008+/-0.000 χ^2/NDF :2725548.7/56

All: 0.008+/-0.000 χ^2/NDF : 5551885.5/107

yield_bpm0i01Y_mean vs Slug, Sign Corrected



Right In: -1.483+/-0.000 χ^2/NDF : 174591746133.1/27

Left Out: 0.271+/-0.000 χ^2/NDF : 2583233987355.9/24

Right Out: -1.445+/-0.000 χ^2/NDF : 164443970114.8/31

Left In: 0.348+/-0.000 χ^2/NDF : 2274004426513.8/22

Left: 0.308+/-0.000 χ^2/NDF : 4864843200778.2/47

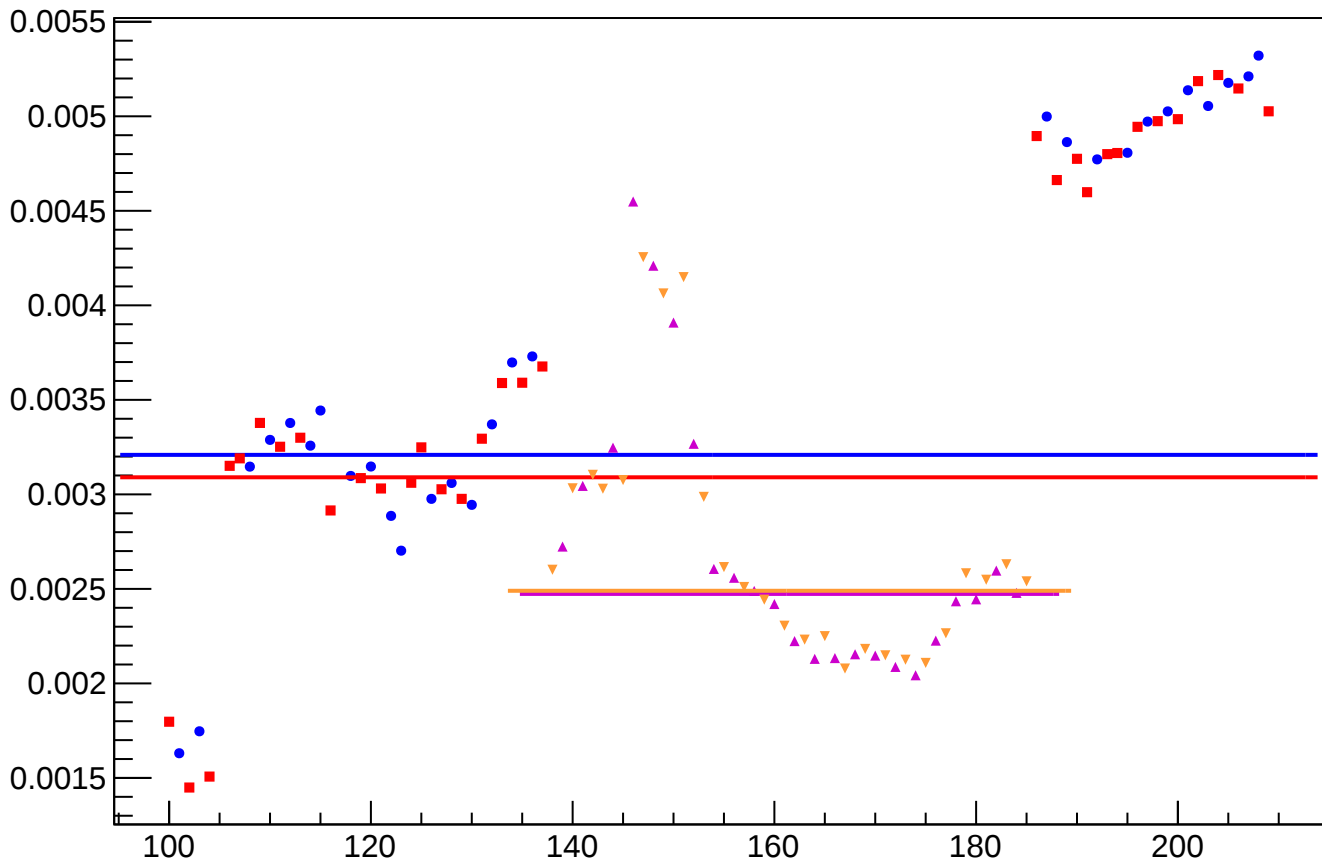
Right: -1.463+/-0.000 χ^2/NDF : 339944452540.4/59

In: -0.231+/-0.000 χ^2/NDF : 5080916170959.3/50

Out: -0.303+/-0.000 χ^2/NDF : 5326531723164.7/56

All: -0.268+/-0.000 χ^2/NDF : 1041710549385

yield_bpm0i01Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 366607.7/27

Left Out: 0.002+/-0.000 χ^2/NDF :1070282.7/24

Right Out: 0.003+/-0.000 χ^2/NDF : 4748534.9/31

Left In: 0.002+/-0.000 χ^2/NDF :1135279.8/22

Left: 0.002+/-0.000 χ^2/NDF : 2206266.8/47

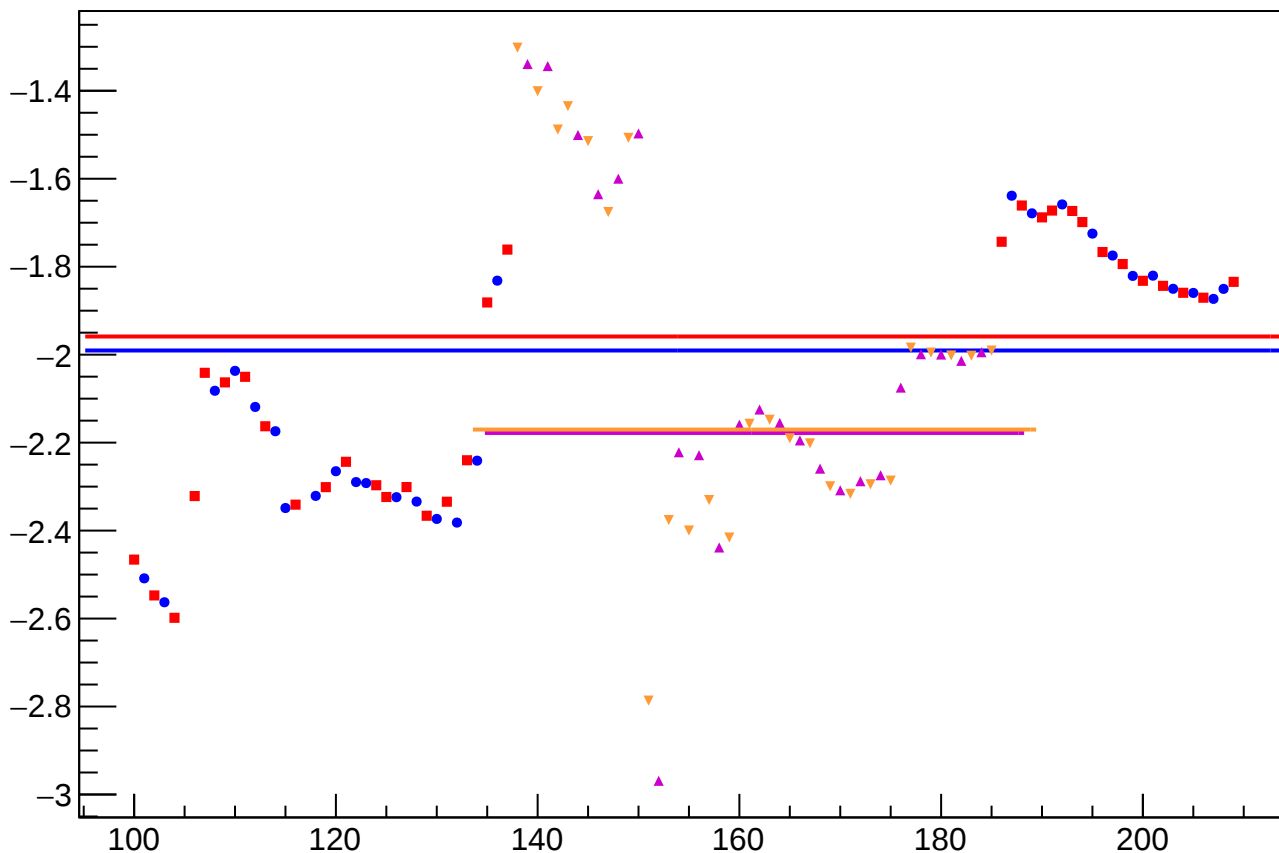
Right: 0.003+/-0.000 χ^2/NDF : 8432406.8/59

In: 0.003+/-0.000 χ^2/NDF :5651253.0/50

Out: 0.003+/-0.000 χ^2/NDF :6450298.1/56

All: 0.003+/-0.000 χ^2/NDF : 12102441.5/107

yield_bpm0i01aX_mean vs Slug, Sign Corrected



Right In: -1.990+/-0.000 χ^2/NDF : 30839406064.9/27

Left Out: -2.170+/-0.000 χ^2/NDF : 59967315241.9/24

Right Out: -1.959+/-0.000 χ^2/NDF : 35142540150.7/31

Left In: -2.178+/-0.000 χ^2/NDF : 73402051113.3/22

Left: -2.174+/-0.000 χ^2/NDF : 133392029481.5/47

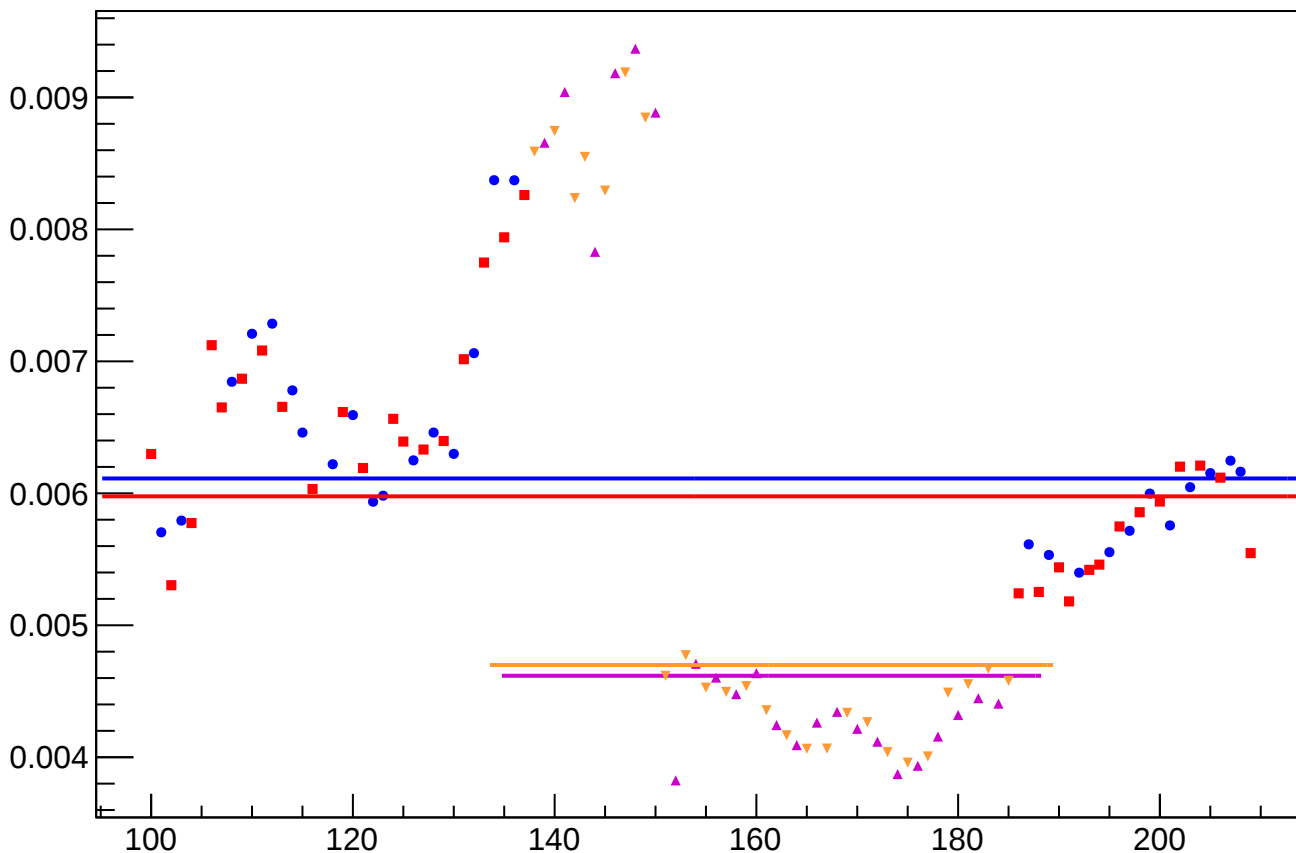
Right: -1.974+/-0.000 χ^2/NDF : 66183406847.7/59

In: -2.115+/-0.000 χ^2/NDF : 112938689393.6/50

Out: -2.094+/-0.000 χ^2/NDF : 107317521374.1/56

All: -2.104+/-0.000 χ^2/NDF : 220506353167.3

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 : 362633.0/31

Left In: 0.005+/-0.000 χ^2/NDF :2367440.9/22

Left: 0.005+/-0.000 χ^2/NDF : 4691984.4/47

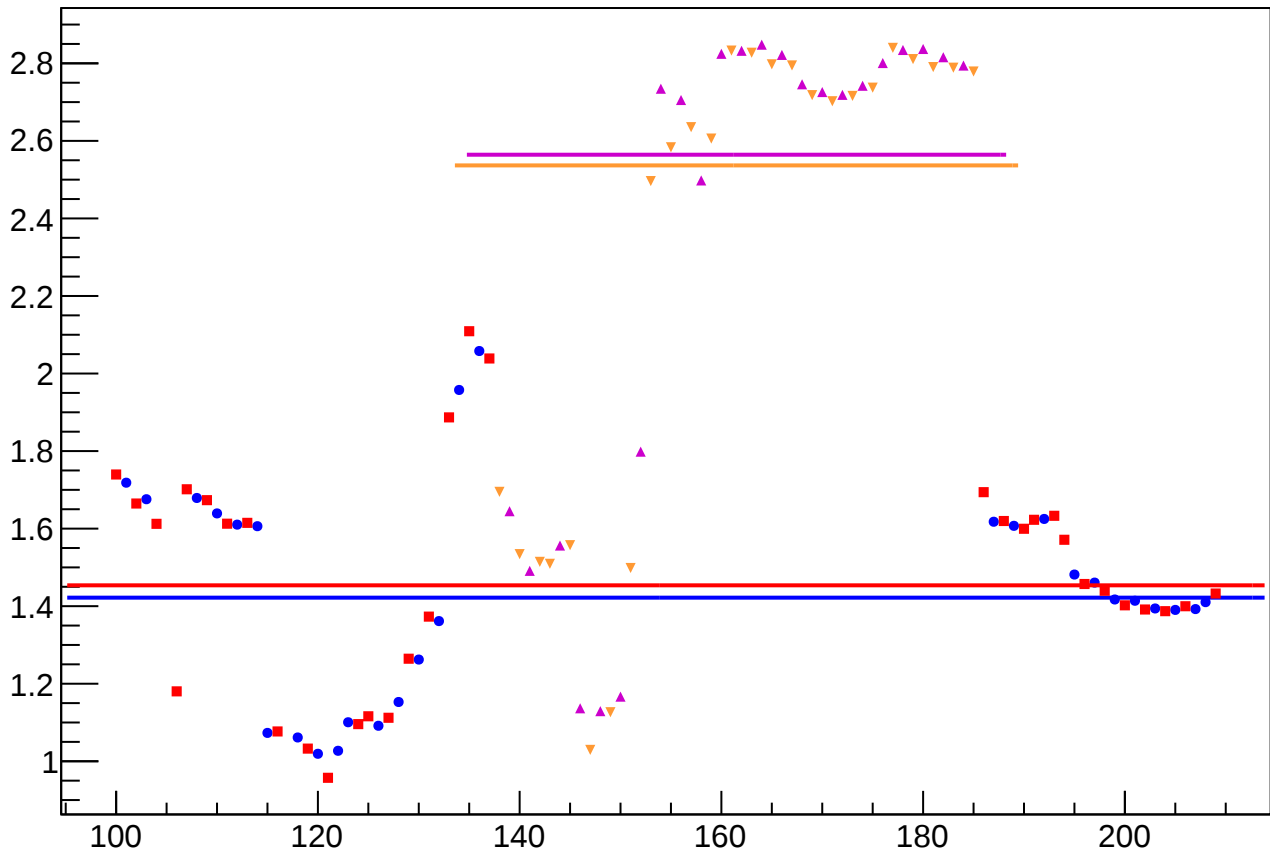
Right: 0.006+/-0.000 χ^2/NDF : 672772.8/59

In: 0.005+/-0.000 χ^2/NDF :3775681.2/50

Out: 0.005+/-0.000 χ^2/NDF :3573272.8/56

All: 0.005+/-0.000 χ^2/NDF : 7350654.6/107

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 : 176992826727.0/31

Left In: 2.564+/-0.000 χ^2/NDF : 260287937727.8/22

Left: 2.550+/-0.000 χ^2/NDF : 530319507083.6/47

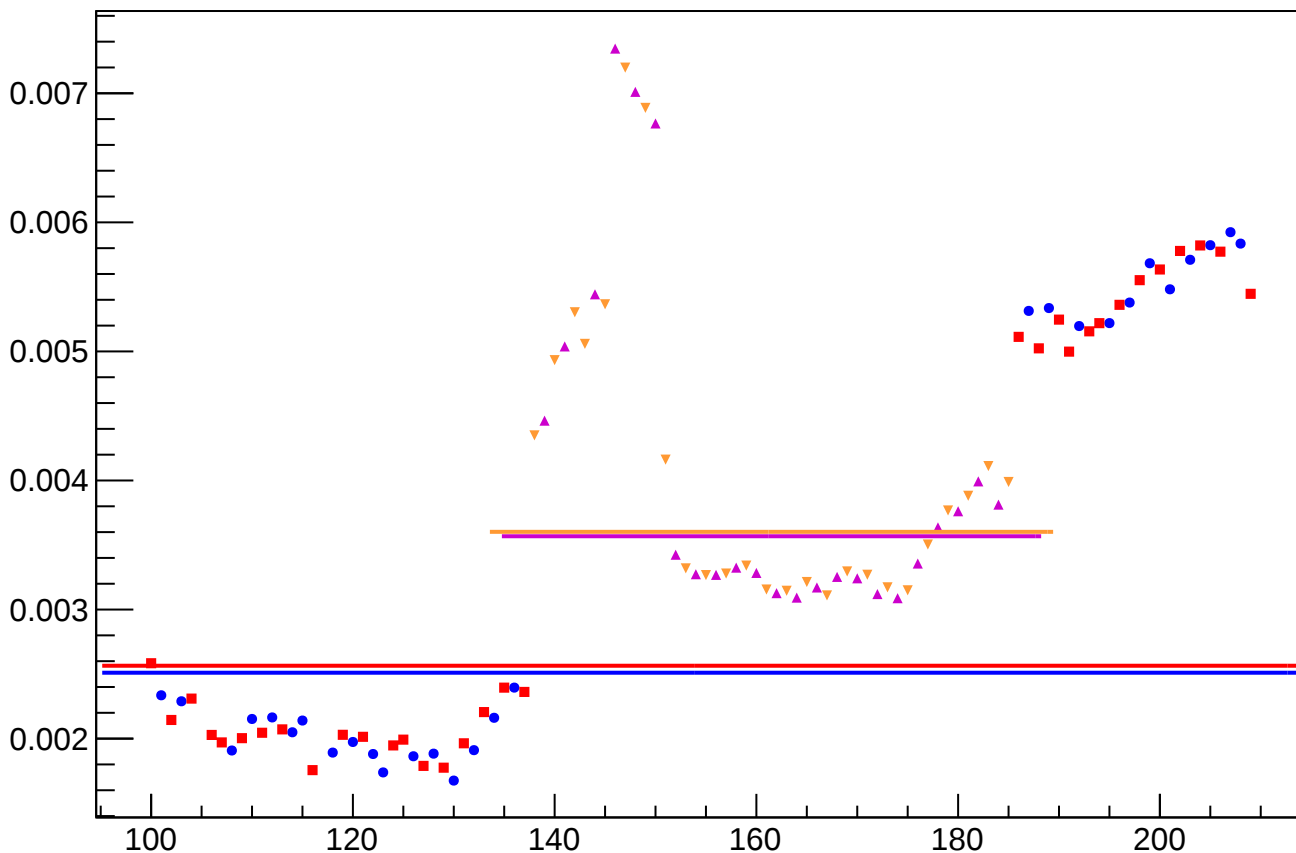
Right: 1.438+/-0.000 χ^2/NDF : 352071186004.8/59

In: 1.890+/-0.000 χ^2/NDF : 1379104377709.6/50

Out: 1.896+/-0.000 χ^2/NDF : 1341109509190.6/56

All: 1.893+/-0.000 χ^2/NDF : 2720263382888.

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 : 5832600.9/31

Left In: 0.004+/-0.000 χ^2/NDF :1563028.0/22

Left: 0.004+/-0.000 χ^2/NDF : 2975225.3/47

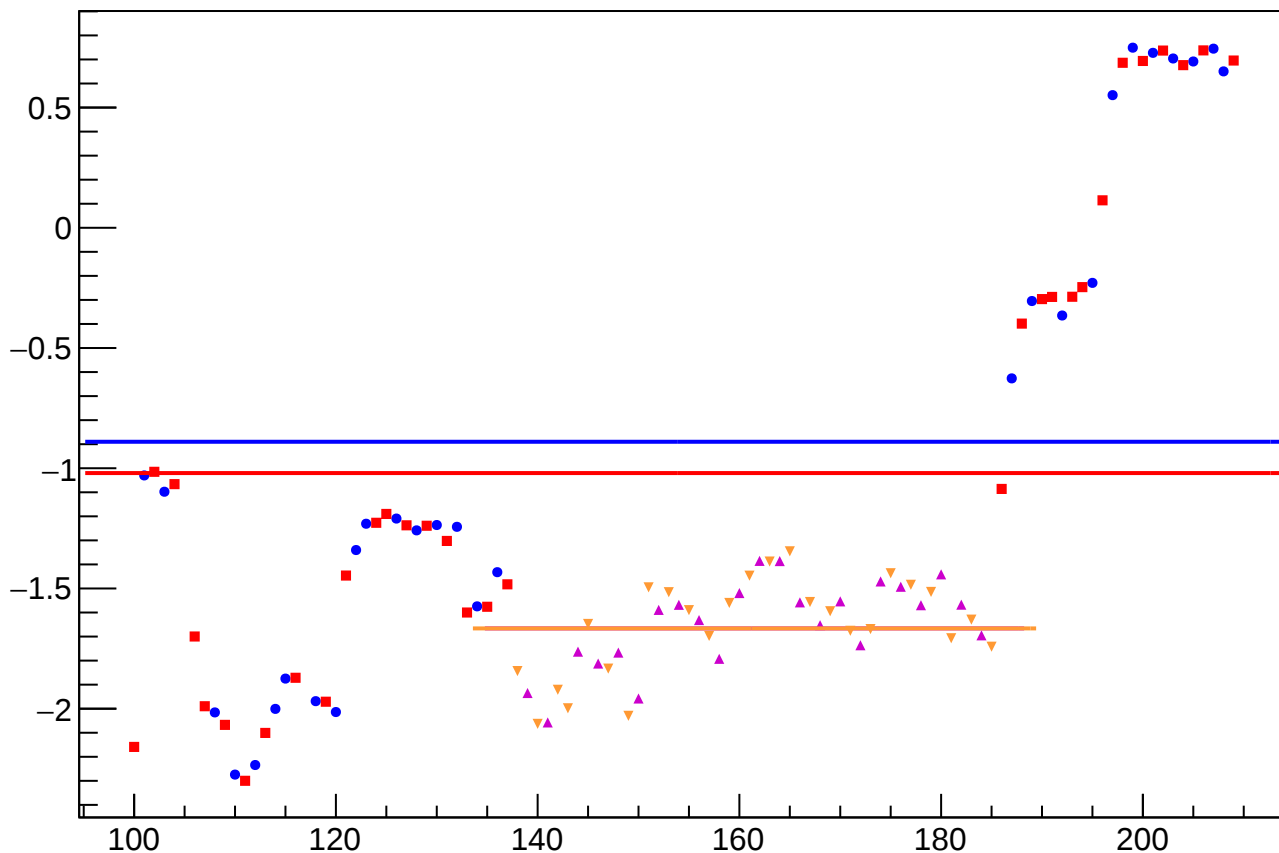
Right: 0.003+/-0.000 χ^2/NDF : 11336218.6/59

In: 0.003+/-0.000 χ^2/NDF :8679929.5/50

Out: 0.003+/-0.000 χ^2/NDF :8885368.5/56

All: 0.003+/-0.000 χ^2/NDF : 17571322.0/107

yield_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -0.890+/-0.000

χ^2/NDF : 193328540363.0/27

Left: -1.666+/-0.000

χ^2/NDF : 32617732948.1/47

Left Out: -1.666+/-0.000

χ^2/NDF : 18325162131.2/24

Right: -0.960+/-0.000

χ^2/NDF : 417552050975.7/59

Right Out: -1.020+/-0.000

χ^2/NDF : 222337166541.1/31

In: -1.407+/-0.000

χ^2/NDF : 290143406931.9/50

Out: -1.437+/-0.000

χ^2/NDF : 305974461546.7/56

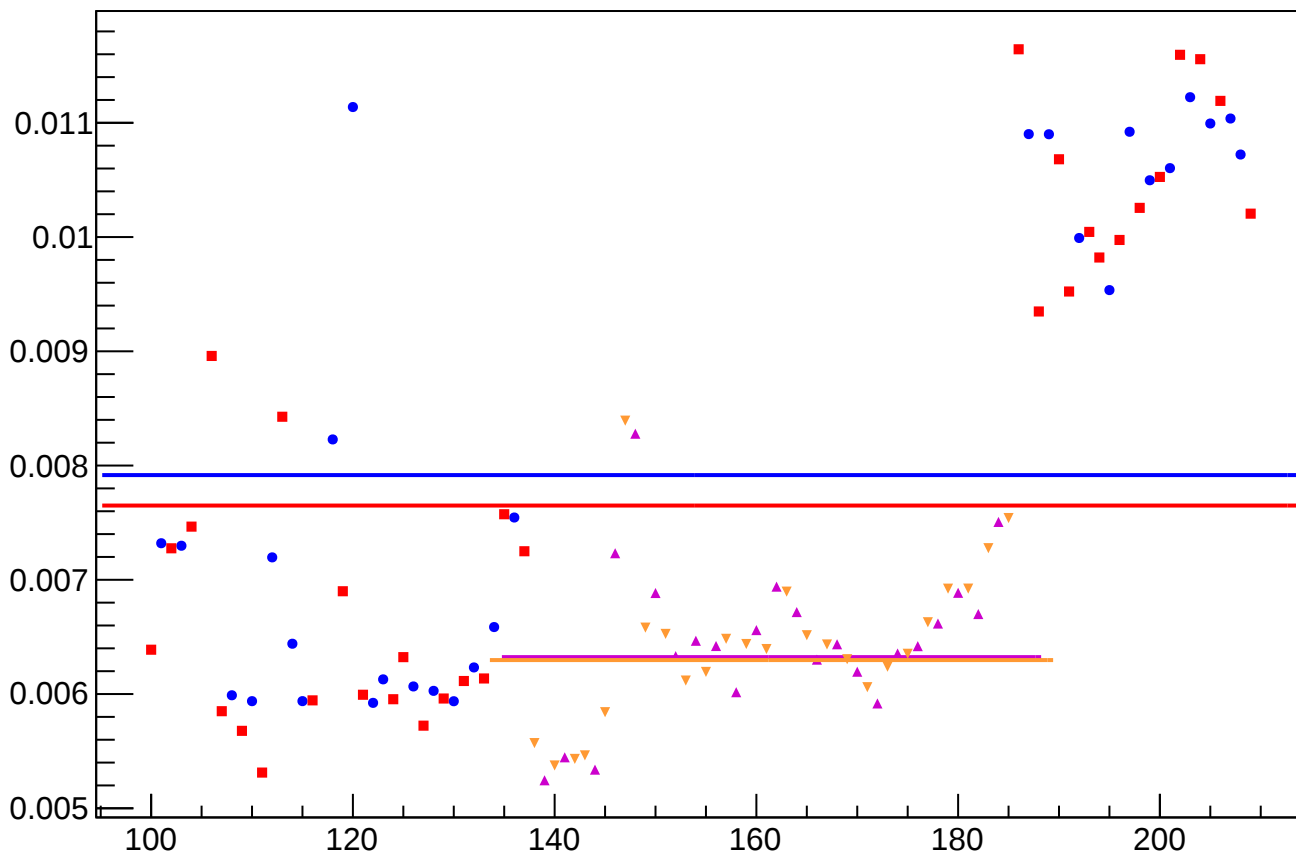
Left In: -1.666+/-0.000

χ^2/NDF : 14292570816.9/22

All: -1.423+/-0.000

χ^2/NDF : 596408674032.0/100

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 : 2005275.5/31

Left In: 0.006+/-0.000 χ^2/NDF :330859.7/22

Left: 0.006+/-0.000 χ^2/NDF : 641901.9/47

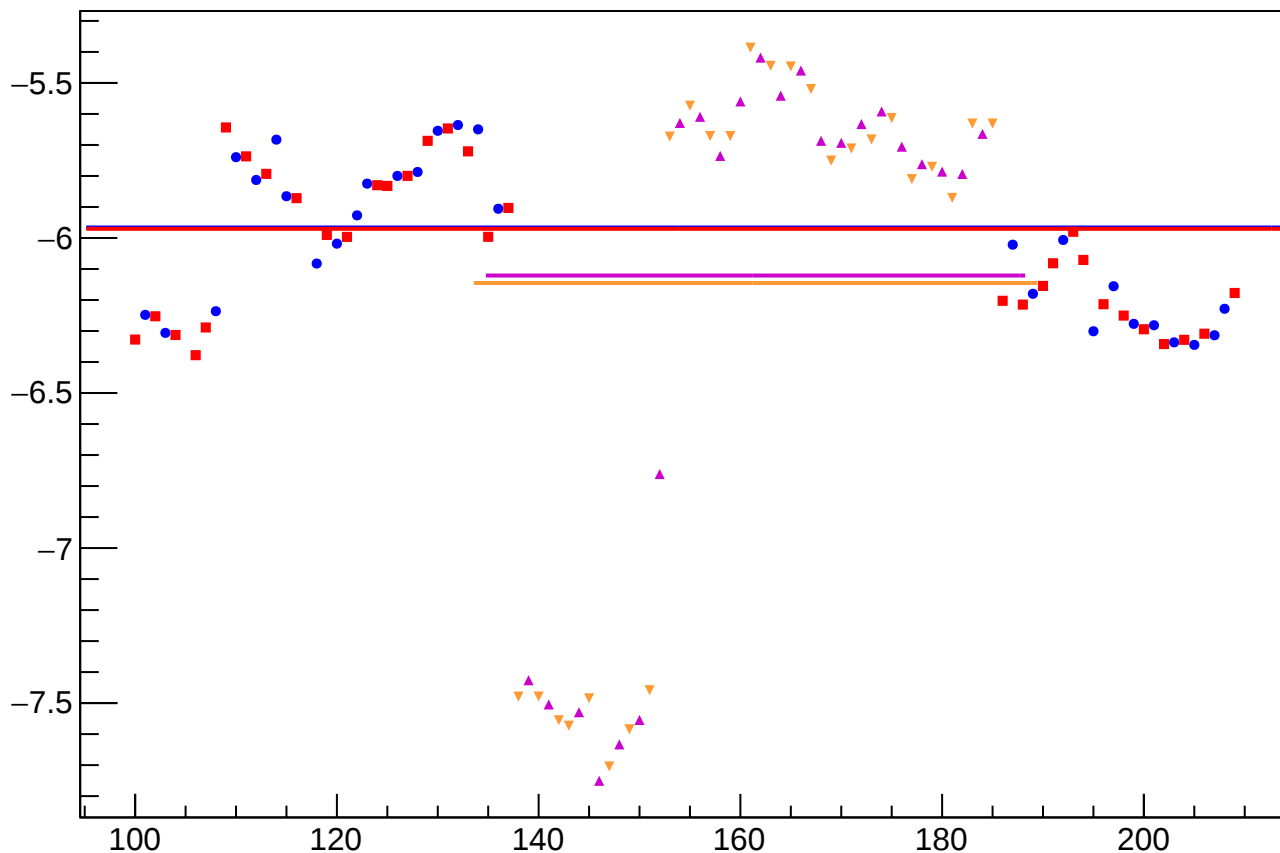
Right: 0.008+/-0.000 χ^2/NDF : 3697234.3/59

In: 0.007+/-0.000 χ^2/NDF :2702353.1/50

Out: 0.007+/-0.000 χ^2/NDF :2888582.5/56

All: 0.007+/-0.000 χ^2/NDF : 5594878.1/107

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: -5.970+/-0.000 χ^2/NDF : 16540044701.7/31

Left In: -6.121+/-0.000 χ^2/NDF : 158315913062.3/22

Left: -6.133+/-0.000 χ^2/NDF : 343753122832.9/47

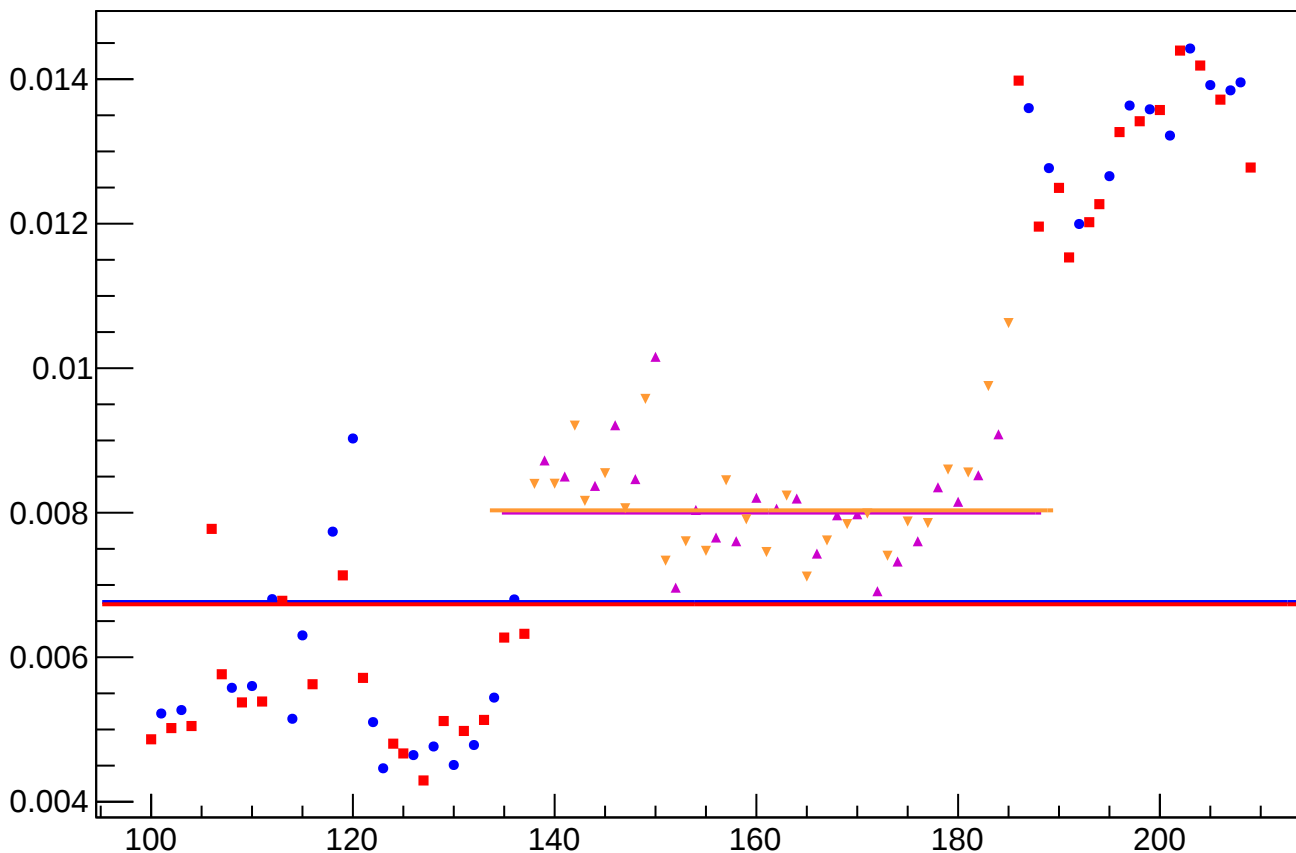
Right: -5.968+/-0.000 χ^2/NDF : 31796682341.6/59

In: -6.044+/-0.000 χ^2/NDF : 176511107135.7/50

Out: -6.055+/-0.000 χ^2/NDF : 205943967543.2/56

All: -6.050+/-0.000 χ^2/NDF : 382486916499.5

yield_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 0.007 $\pm$ 0.000 χ^2 /NDF: 4777185.7/27

Left Out: 0.008 $\pm$ 0.000 χ^2 /NDF:205762.2/24

Right Out: 0.007 $\pm$ 0.000 χ^2 /NDF: 5053424.9/31

Left In: 0.008 $\pm$ 0.000 χ^2 /NDF:220756.1/22

Left: 0.008 $\pm$ 0.000 χ^2 /NDF: 426763.2/47

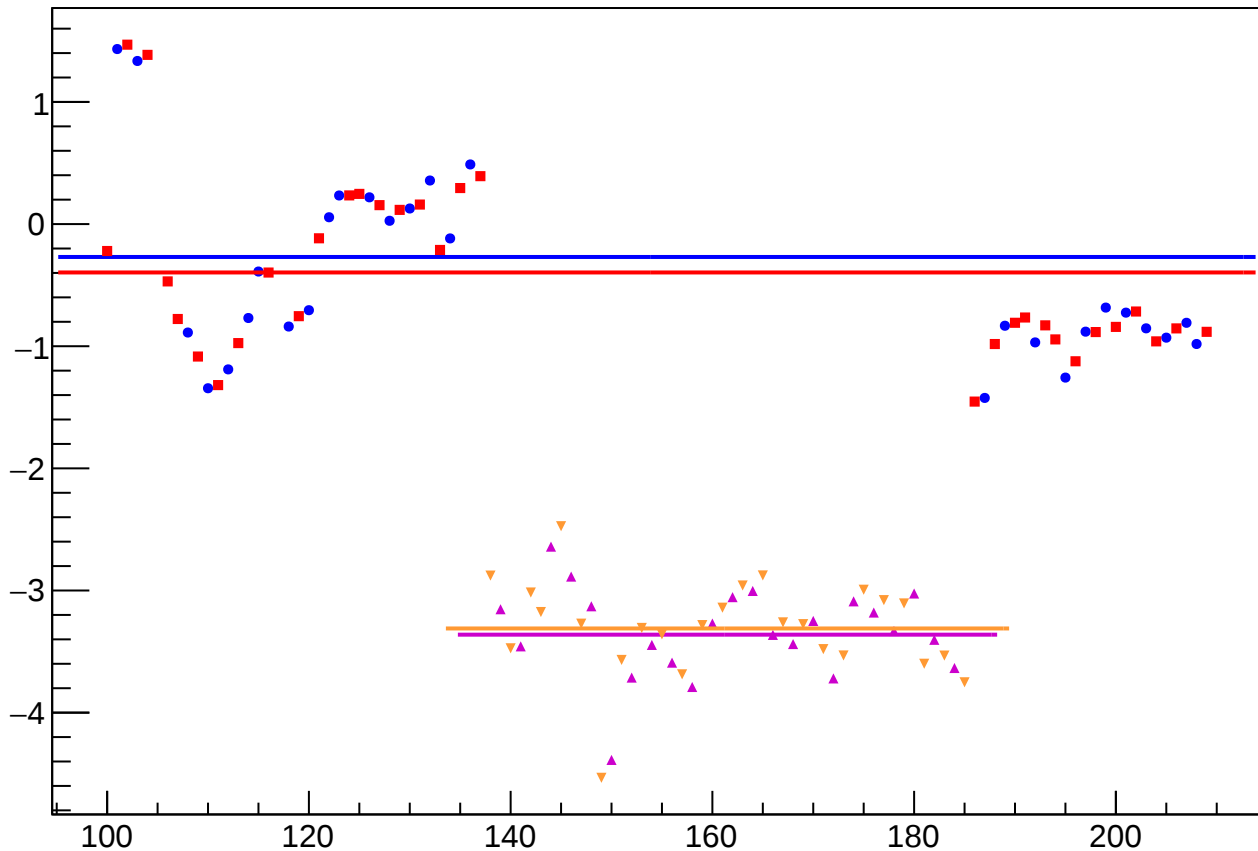
Right: 0.007 $\pm$ 0.000 χ^2 /NDF: 9830860.0/59

In: 0.007 $\pm$ 0.000 χ^2 /NDF:5373522.6/50

Out: 0.007 $\pm$ 0.000 χ^2 /NDF:5706136.1/56

All: 0.007 $\pm$ 0.000 χ^2 /NDF: 11079910.5/107

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: -0.396 ± 0.000 χ^2/NDF : 32886075854.2/31

Left In: -3.362 ± 0.000 χ^2/NDF : 8171803777.4/22

Left: -3.336 ± 0.000 χ^2/NDF : 17613895190.9/47

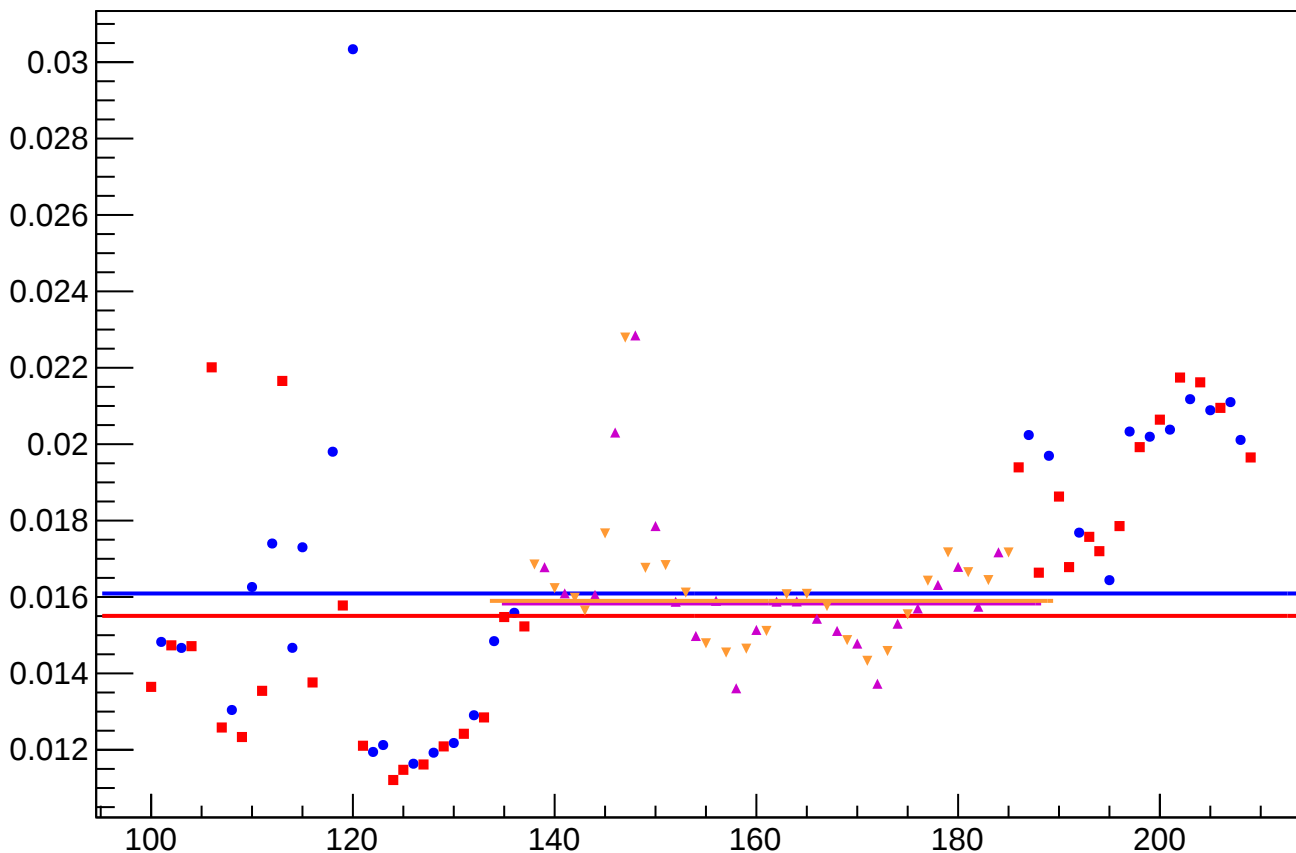
Right: -0.338 ± 0.000 χ^2/NDF : 64997900914.1/59

In: -2.026 ± 0.000 χ^2/NDF : 313520224159.4/50

Out: -1.963 ± 0.000 χ^2/NDF : 317065013288.1/56

All: -1.993 ± 0.000 χ^2/NDF : 630831874865.5

yield_bpm0l02X_rms vs Slug, Sign Corrected



Right In: 0.016+/-0.000 χ^2/NDF : 1265342.1/27

Left Out: 0.016+/-0.000 χ^2/NDF :251912.7/24

Right Out: 0.016+/-0.000 χ^2/NDF : 1328250.1/31

Left In: 0.016+/-0.000 χ^2/NDF :339542.1/22

Left: 0.016+/-0.000 χ^2/NDF : 591766.7/47

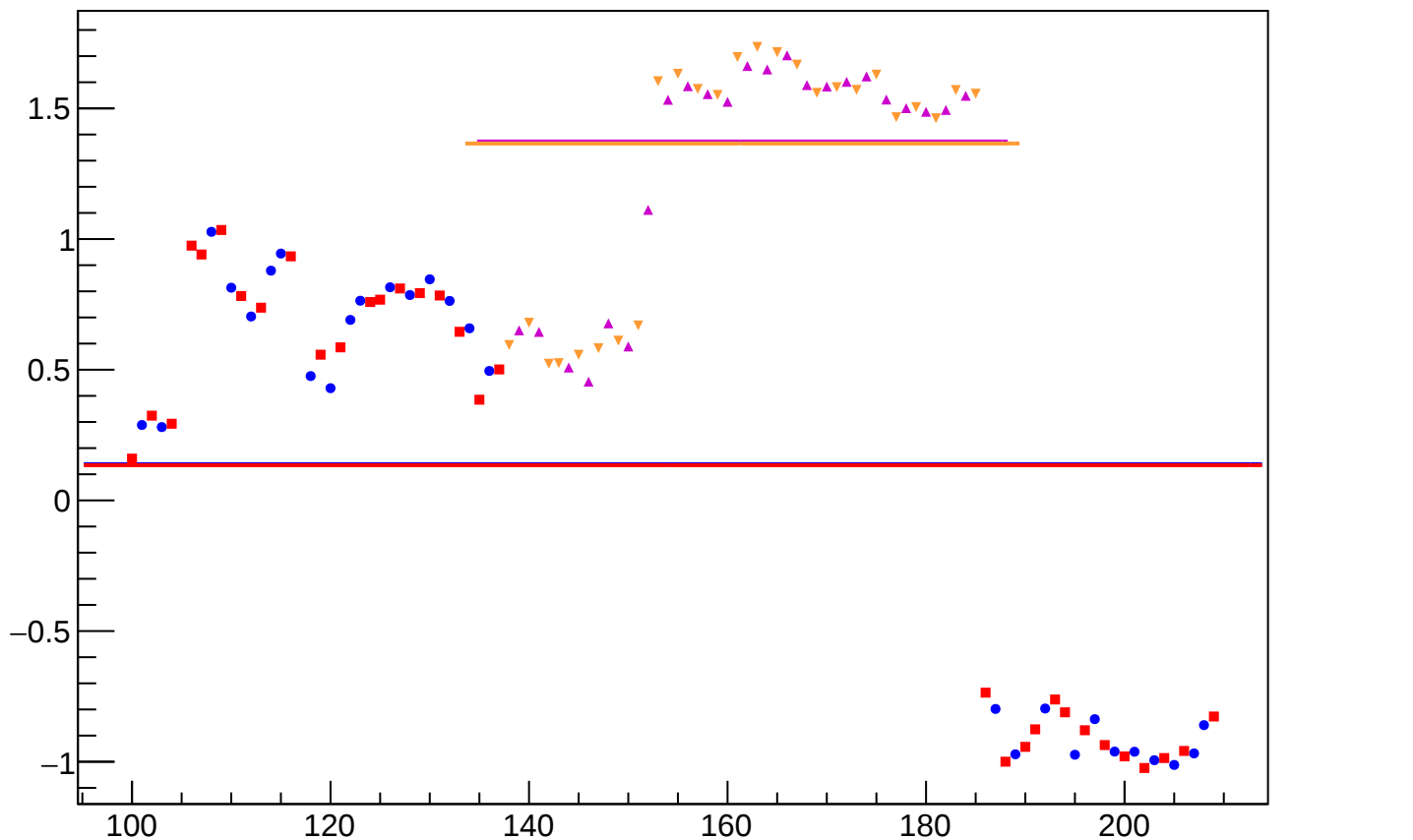
Right: 0.016+/-0.000 χ^2/NDF : 2612442.5/59

In: 0.016+/-0.000 χ^2/NDF :1608790.0/50

Out: 0.016+/-0.000 χ^2/NDF :1590141.6/56

All: 0.016+/-0.000 χ^2/NDF : 3205257.5/107

yield_bpm0l02Y_mean vs Slug, Sign Corrected



Right In: 0.139+/-0.000

χ^2/NDF : 75915188055.6/27

Left: 1.369+/-0.000 χ^2/NDF : 138167468300.7/47

Right: 0.137+/-0.000 χ^2/NDF : 164293060257.7/59

Left Out: 1.366+/-0.000

χ^2/NDF : 74741956067.9/24

In: 1.072+/-0.000 χ^2/NDF : 298125841855.8/50

Right Out: 0.135+/-0.000

χ^2/NDF : 88376795283.4/31

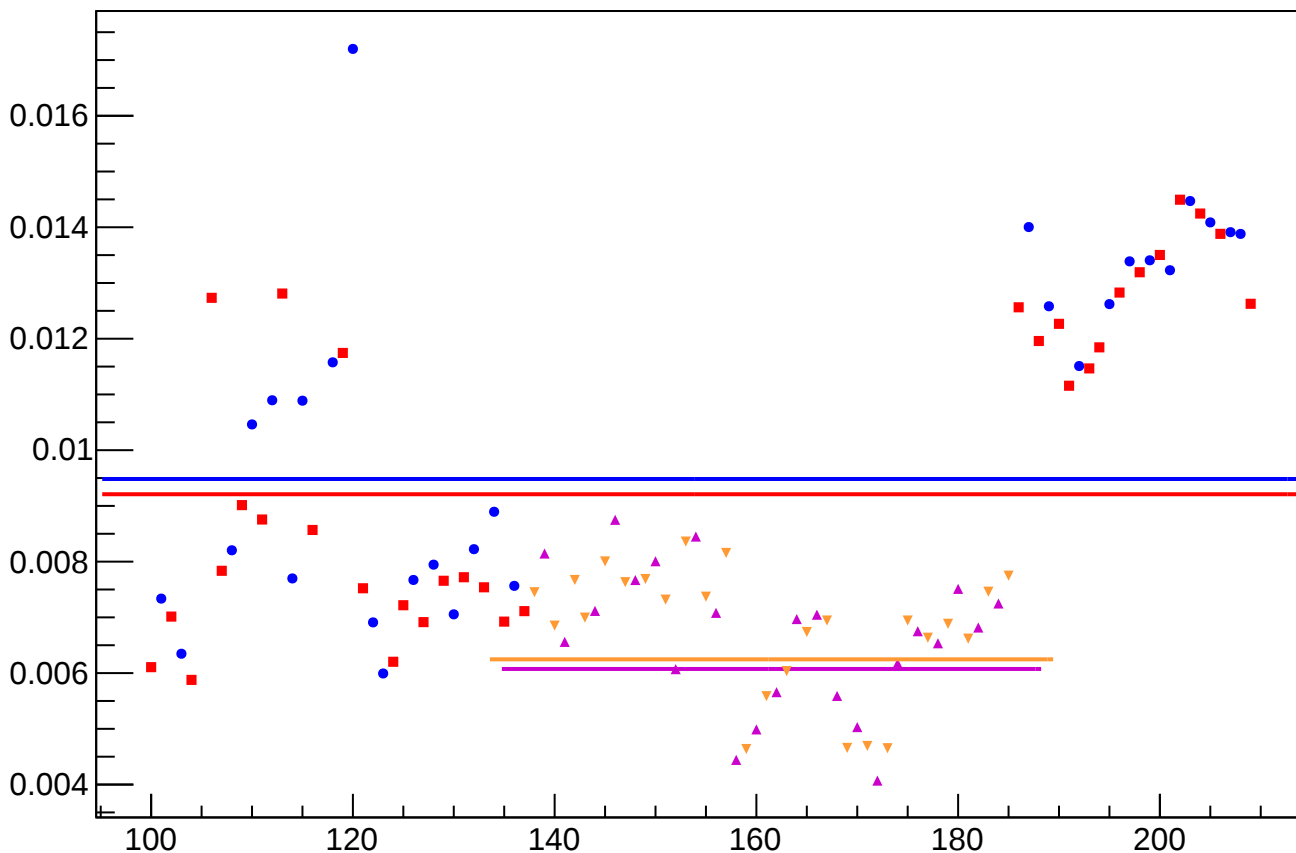
Out: 1.029+/-0.000 χ^2/NDF : 339533930584.0/56

Left In: 1.373+/-0.000

χ^2/NDF : 63413151416.3/22

All: 1.050+/-0.000 χ^2/NDF : 638195353789.6

yield_bpm0l02Y_rms vs Slug, Sign Corrected



Right In: 0.009 $\pm$ 0.000 χ^2 /NDF: 2246406.4/27

Left Out: 0.006 $\pm$ 0.000 χ^2 /NDF:1330867.5/24

Right Out: 0.009 $\pm$ 0.000 χ^2 /NDF: 2408871.0/31

Left In: 0.006 $\pm$ 0.000 χ^2 /NDF:1431986.5/22

Left: 0.006 $\pm$ 0.000 χ^2 /NDF: 2775615.7/47

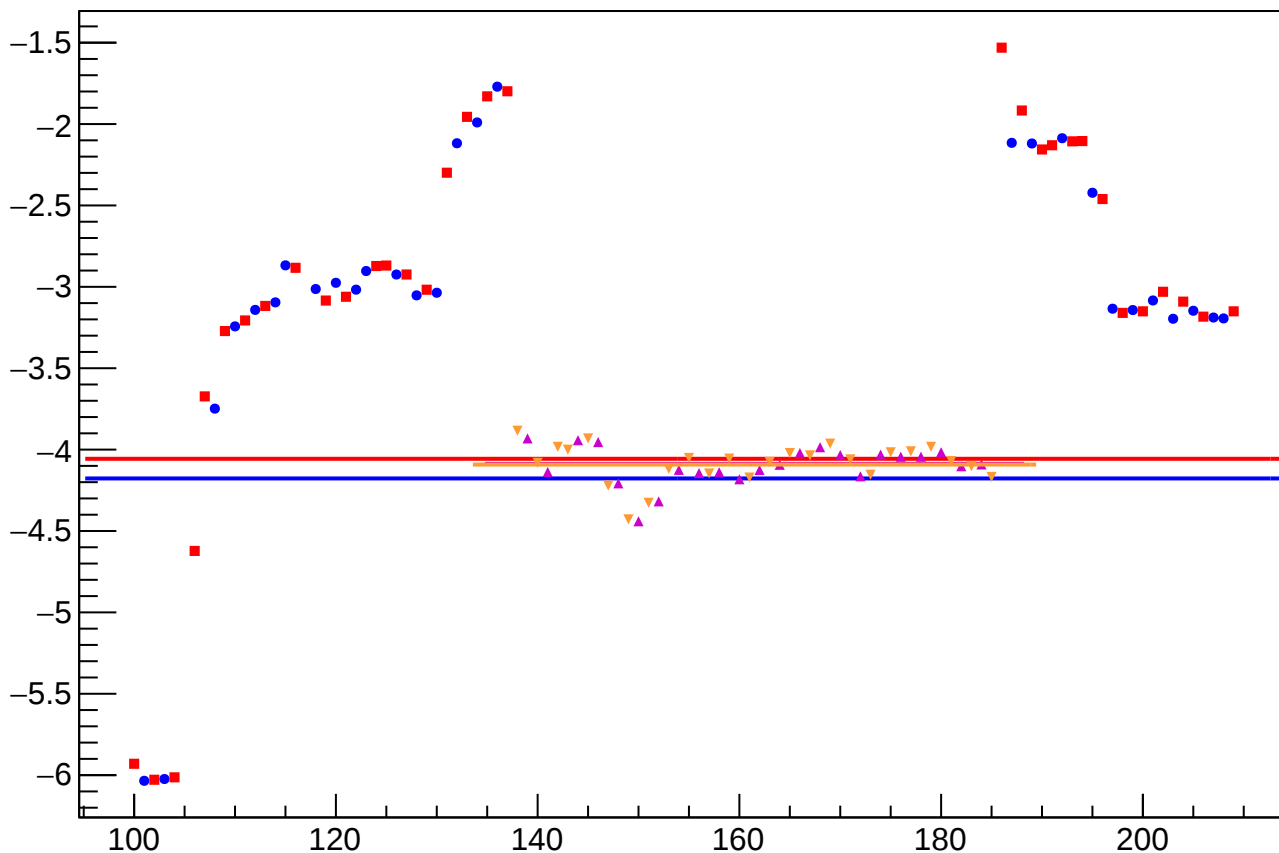
Right: 0.009 $\pm$ 0.000 χ^2 /NDF: 4666353.5/59

In: 0.007 $\pm$ 0.000 χ^2 /NDF:6099463.6/50

Out: 0.007 $\pm$ 0.000 χ^2 /NDF:5783684.1/56

All: 0.007 $\pm$ 0.000 χ^2 /NDF: 11896420.9/107

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: -4.126+/-0.000

χ^2/NDF : 552052304911.5/59

Right Out: -4.056+/-0.000

χ^2/NDF : 271236419008.8/31

In: -4.174+/-0.000

χ^2/NDF : 280189550670.9/50

Out: -4.058+/-0.000

χ^2/NDF : 271279795145.9/56

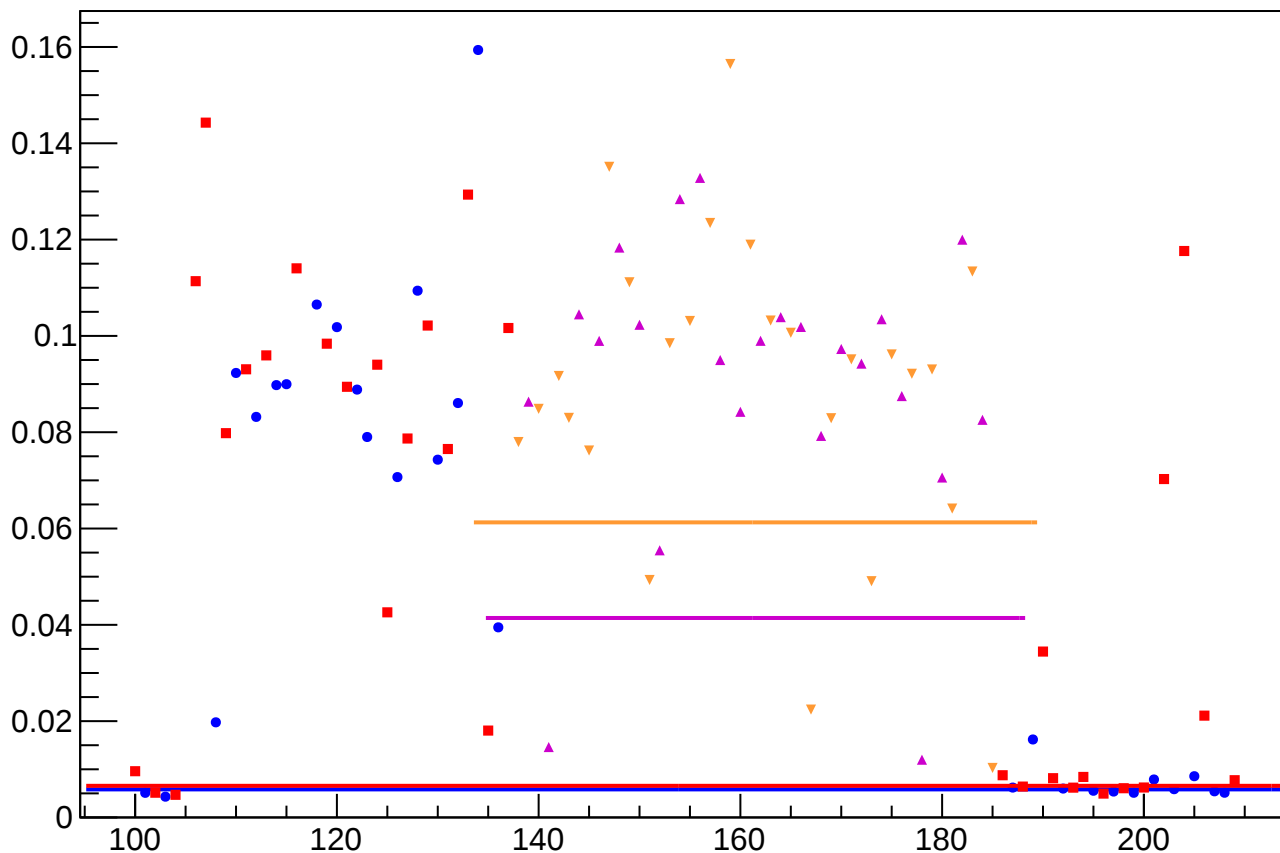
Left In: -4.088+/-0.000

χ^2/NDF : 34412880.7/22

All: -4.125+/-0.000

χ^2/NDF : 552136112100.7

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 : 10338282.8/31

Left In: 0.041+/-0.000 χ^2/NDF :13124468.7/22

Left: 0.050+/-0.000 χ^2/NDF : 22855159.2/47

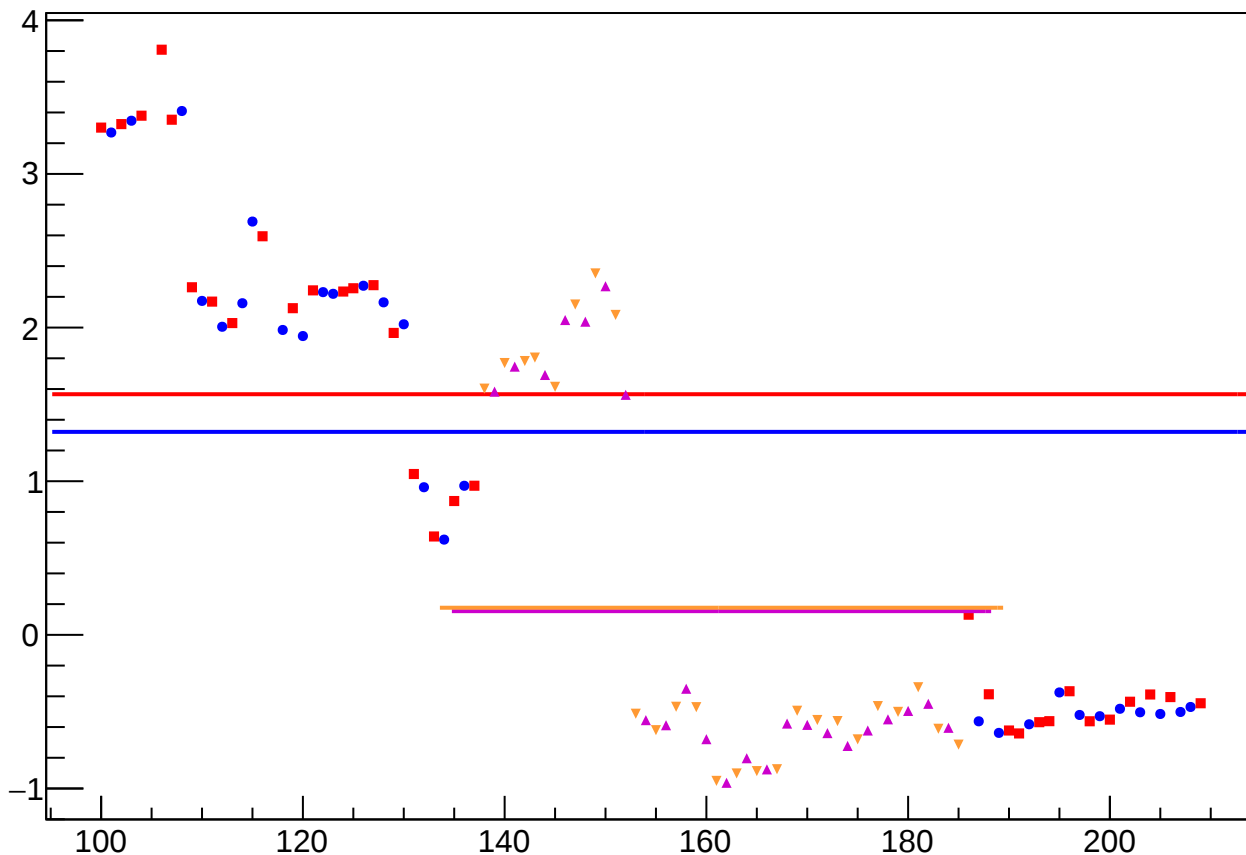
Right: 0.006+/-0.000 χ^2/NDF : 18466852.9/59

In: 0.007+/-0.000 χ^2/NDF :31616543.6/50

Out: 0.008+/-0.000 χ^2/NDF :35753865.5/56

All: 0.008+/-0.000 χ^2/NDF : 67550796.2/107

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: 1.566+/-0.000 χ^2/NDF : 174525103075.3/31

Left In: 0.154+/-0.000 χ^2/NDF : 3163553595.0/22

Left: 0.165+/-0.000 χ^2/NDF : 6439465655.5/47

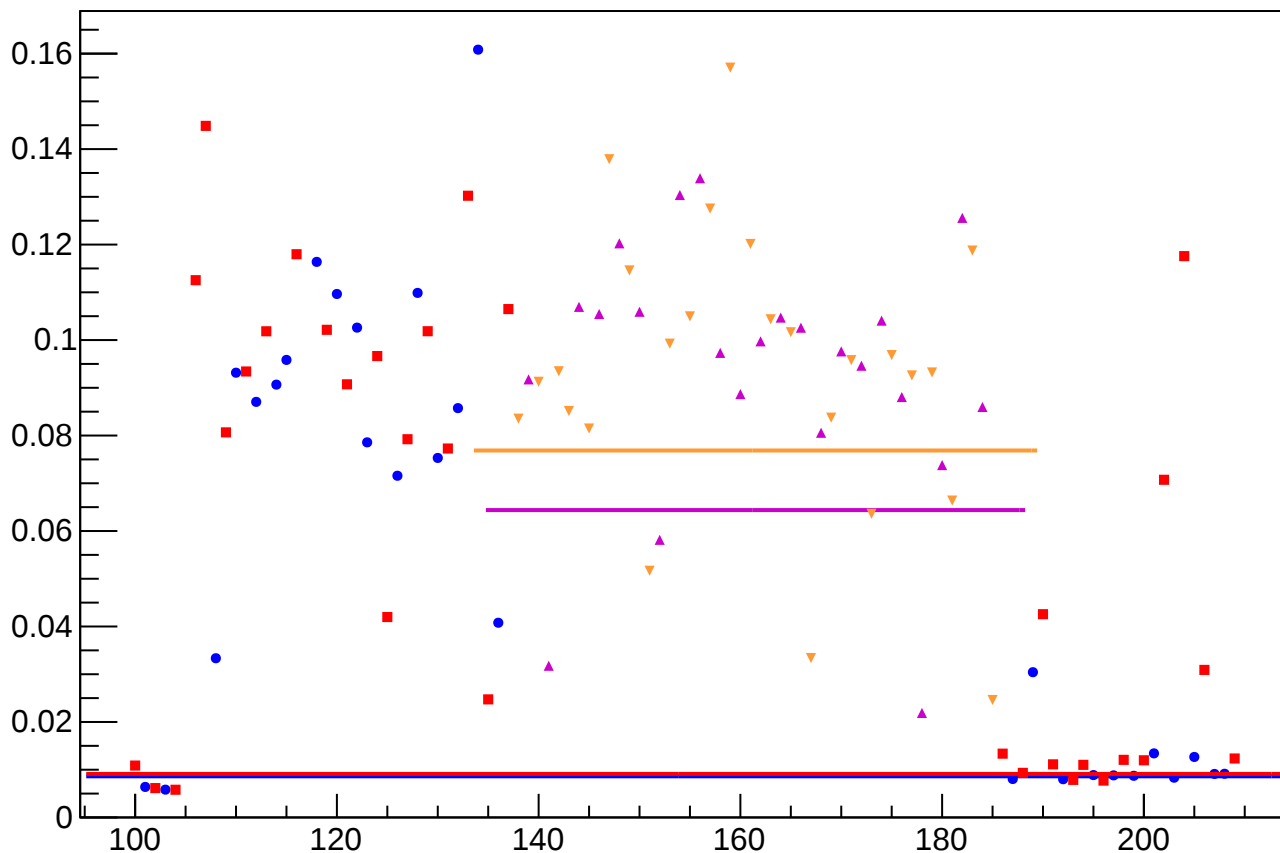
Right: 1.432+/-0.000 χ^2/NDF : 388962445280.4/59

In: 1.273+/-0.000 χ^2/NDF : 219353145779.8/50

Out: 1.505+/-0.000 χ^2/NDF : 181985296773.3/56

All: 1.378+/-0.000 χ^2/NDF : 402853917594.3

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 : 10315744.4/31

Left In: 0.064+/-0.000 χ^2/NDF : 6990231.5/22

Left: 0.070+/-0.000 χ^2/NDF : 11584112.3/47

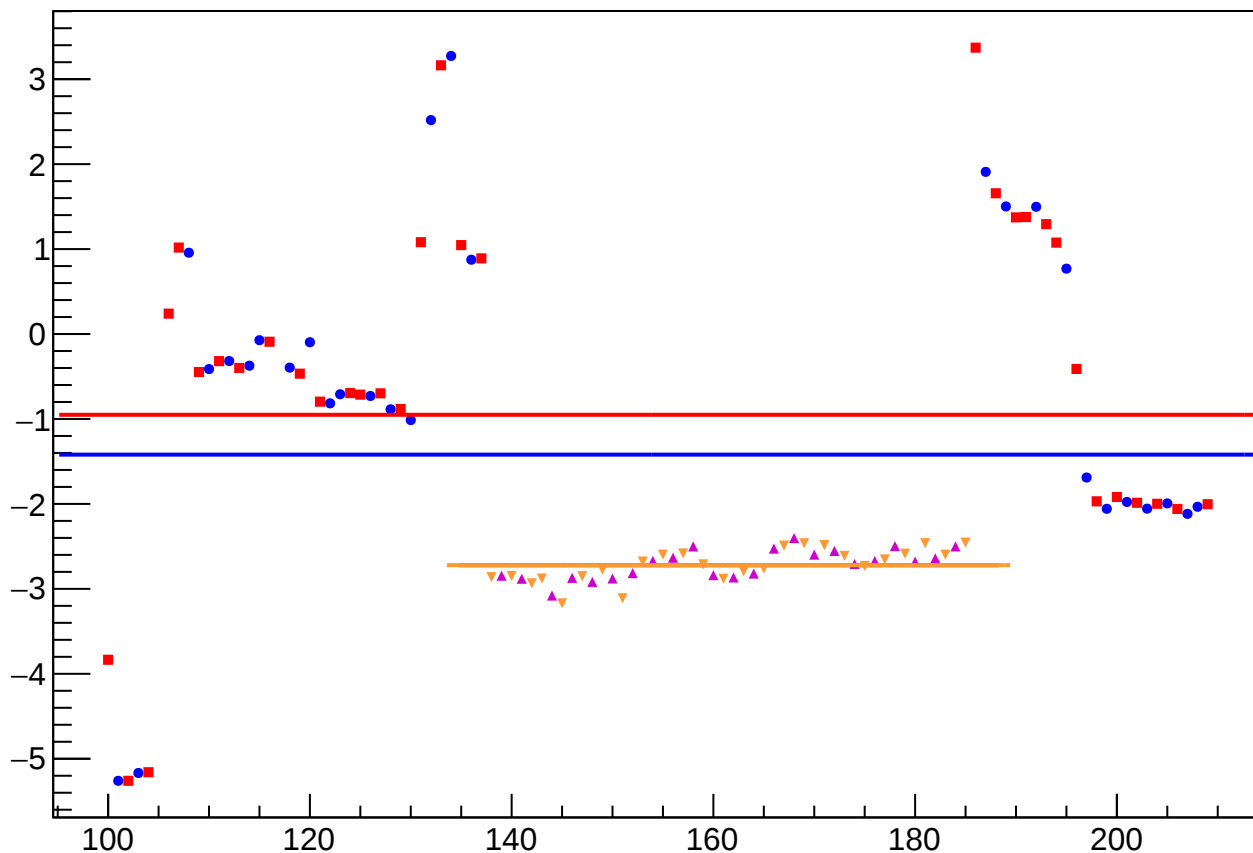
Right: 0.009+/-0.000 χ^2/NDF : 18359619.3/59

In: 0.011+/-0.000 χ^2/NDF : 30395827.3/50

Out: 0.012+/-0.000 χ^2/NDF : 34428037.0/56

All: 0.011+/-0.000 χ^2/NDF : 64900056.1/107

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: -0.951+/-0.000 χ^2/NDF : 237516836441.3/31

Left In: -2.722+/-0.000 χ^2/NDF : 8146484592.1/22

Left: -2.722+/-0.000 χ^2/NDF : 18543711860.5/47

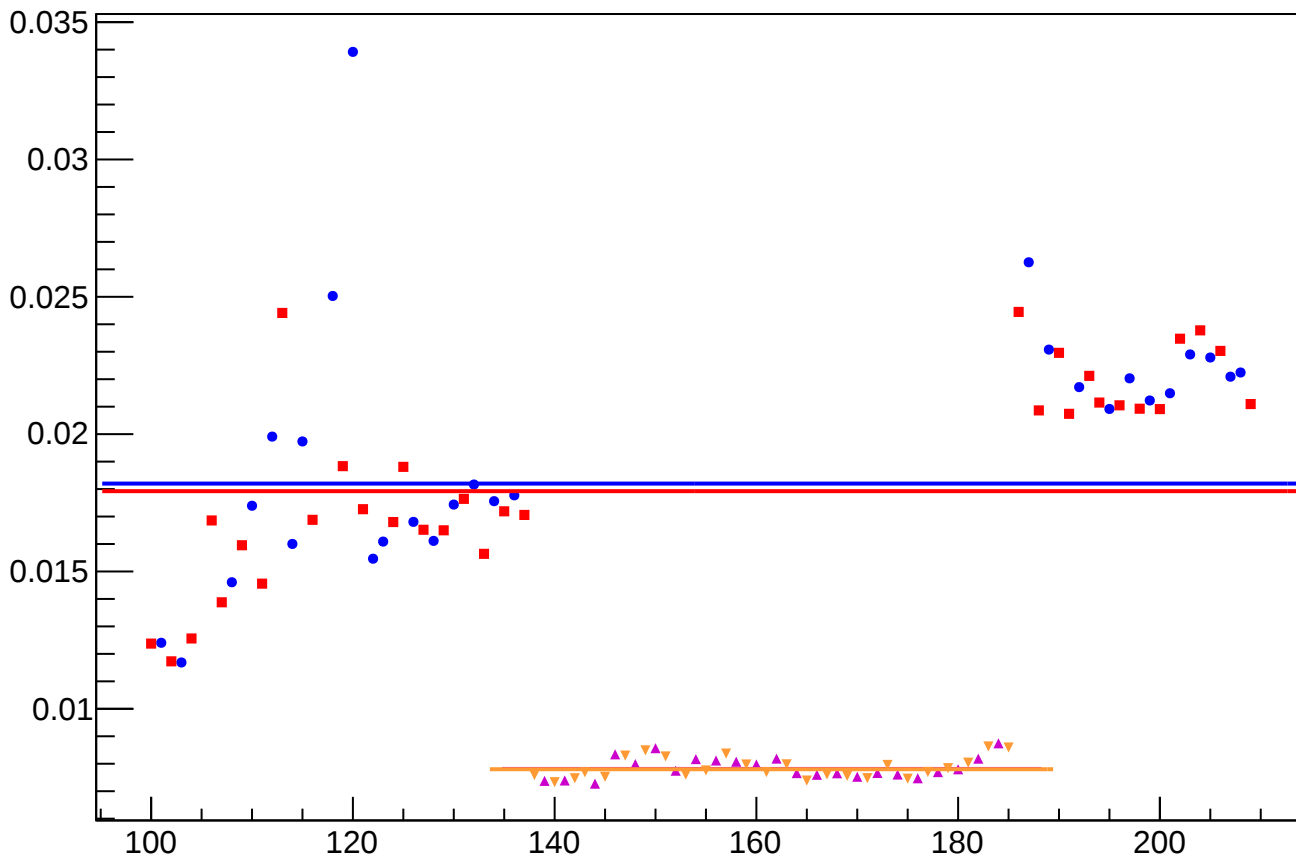
Right: -1.169+/-0.000 χ^2/NDF : 448216448952.2/59

In: -2.562+/-0.000 χ^2/NDF : 271465007335.0/50

Out: -2.488+/-0.000 χ^2/NDF : 368174213243.6/56

All: -2.523+/-0.000 χ^2/NDF : 640520604032.6

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 : 1272161.7/31

Left In: 0.008+/-0.000 χ^2/NDF : 67610.2/22

Left: 0.008+/-0.000 χ^2/NDF : 138804.4/47

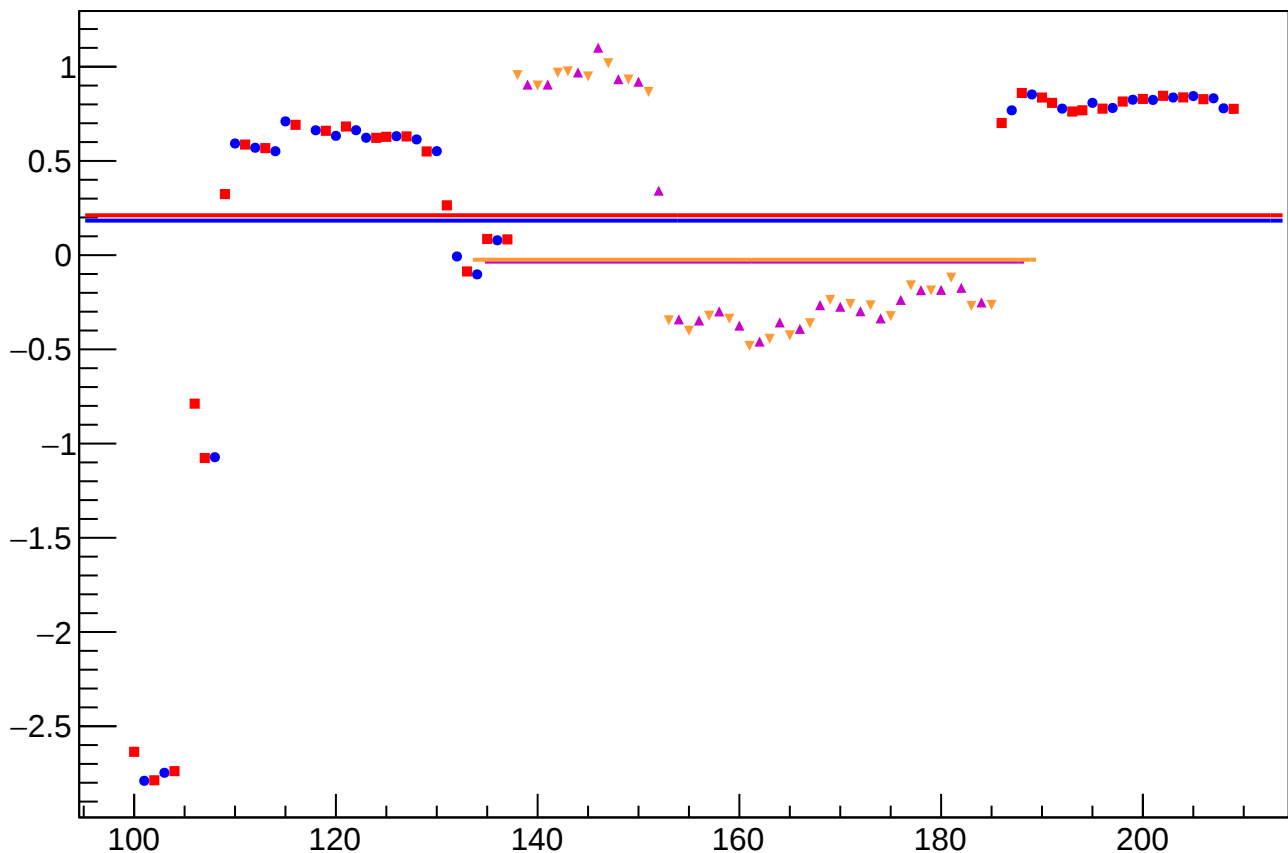
Right: 0.018+/-0.000 χ^2/NDF : 2622866.8/59

In: 0.009+/-0.000 χ^2/NDF : 8689970.4/50

Out: 0.009+/-0.000 χ^2/NDF : 9208220.5/56

All: 0.009+/-0.000 χ^2/NDF : 17898864.3/107

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: 0.198+/-0.000

χ^2/NDF : 1809971430627.9/59

Right Out: 0.212+/-0.000

χ^2/NDF : 937248018537.4/31

In: 0.101+/-0.000

χ^2/NDF : 1000087931687.1/50

Out: 0.128+/-0.000

χ^2/NDF : 1090015518354.9/56

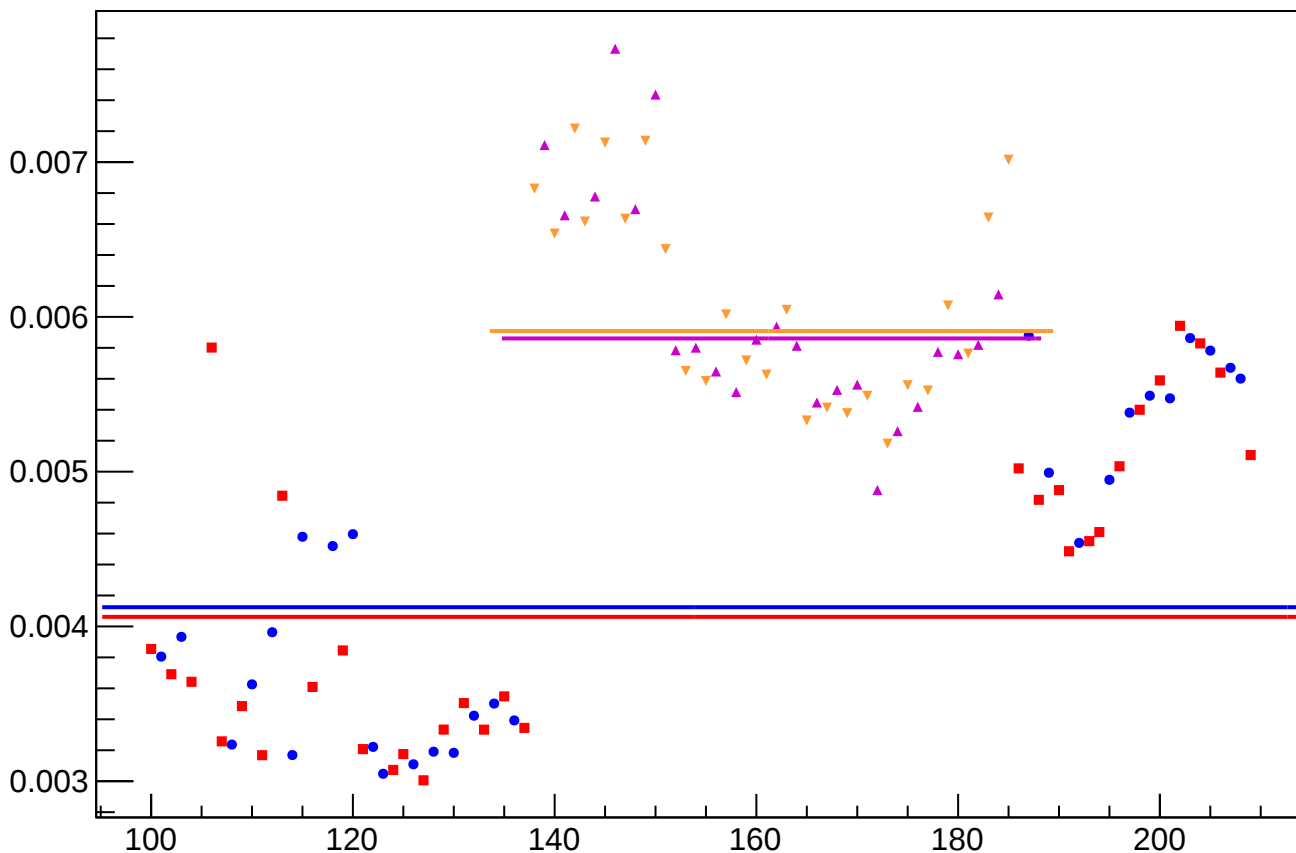
Left In: -0.034+/-0.000

χ^2/NDF : 113929060918.1/22

All: 0.115+/-0.000

χ^2/NDF : 2090556019501.0/100

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 : 1441491.9/31

Left In: 0.006+/-0.000 χ^2/NDF :364512.1/22

Left: 0.006+/-0.000 χ^2/NDF : 679905.3/47

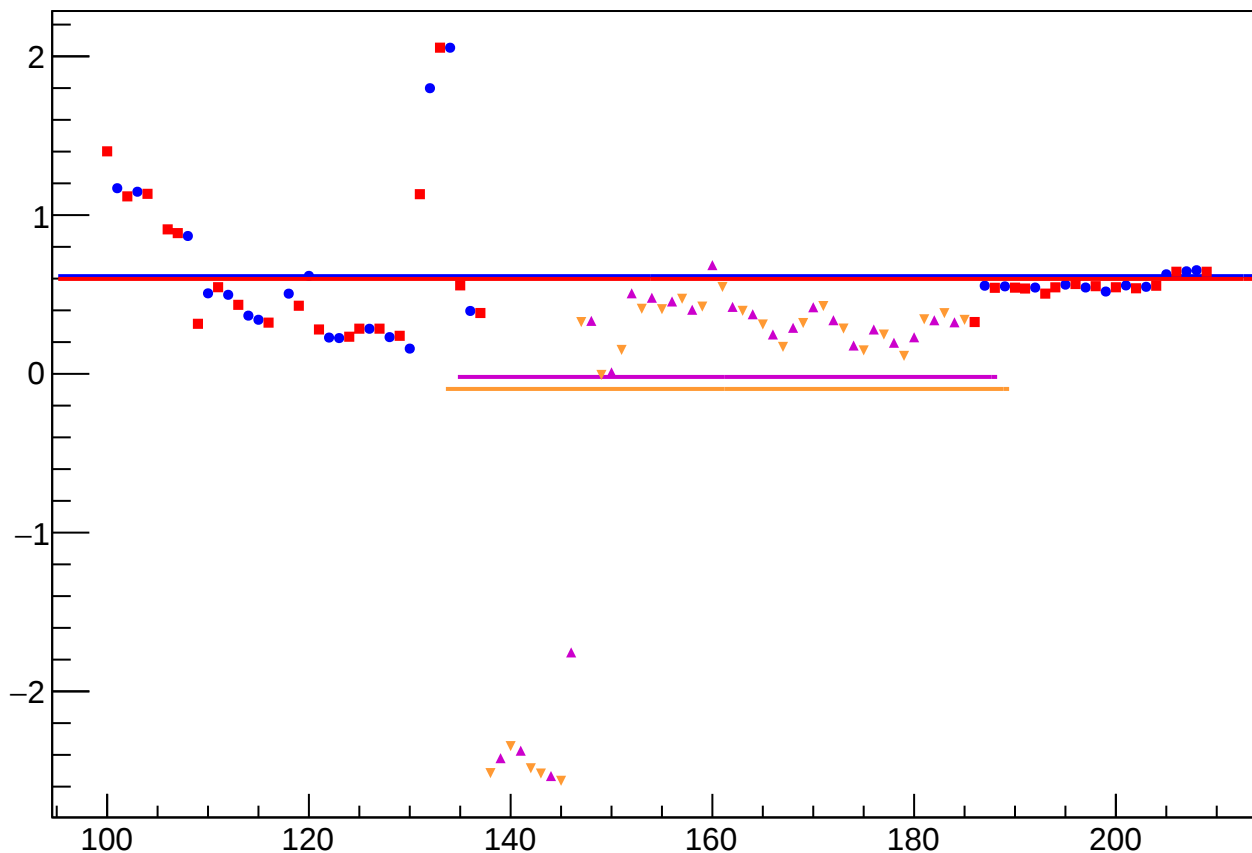
Right: 0.004+/-0.000 χ^2/NDF : 2849846.1/59

In: 0.005+/-0.000 χ^2/NDF :3523087.0/50

Out: 0.005+/-0.000 χ^2/NDF :3880715.4/56

All: 0.005+/-0.000 χ^2/NDF : 7408390.8/107

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: 0.606+/-0.000

χ^2/NDF : 86889997457.1/59

Right Out: 0.598+/-0.000

χ^2/NDF : 46141981856.2/31

In: 0.376+/-0.000

χ^2/NDF : 581638802787.5/50

Out: 0.353+/-0.000

χ^2/NDF : 711610149359.5/56

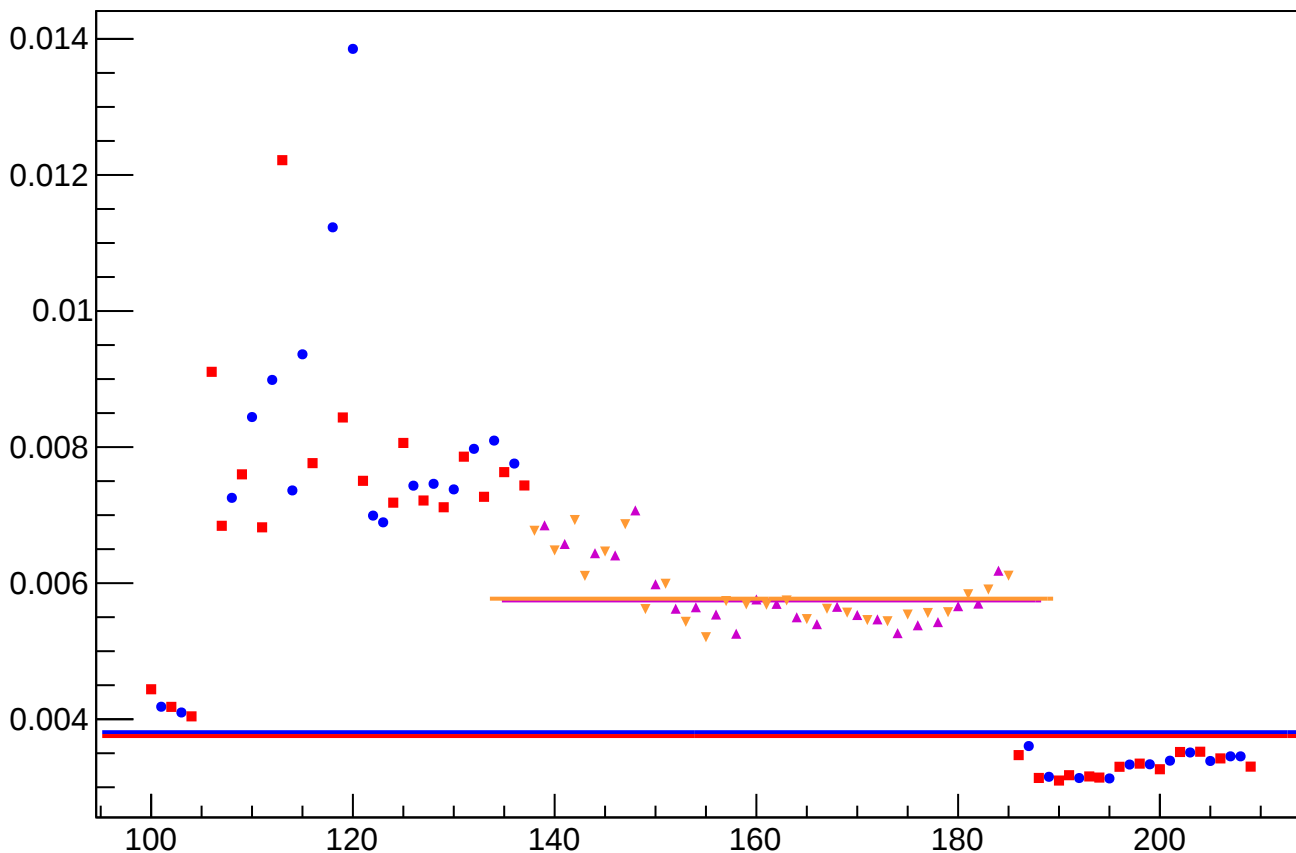
Left In: -0.019+/-0.000

χ^2/NDF : 417104863944.5/22

All: 0.364+/-0.000

χ^2/NDF : 1293628861254.

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 : 3179520.6/31

Left In: 0.006+/-0.000 χ^2/NDF :204066.4/22

Left: 0.006+/-0.000 χ^2/NDF : 382076.8/47

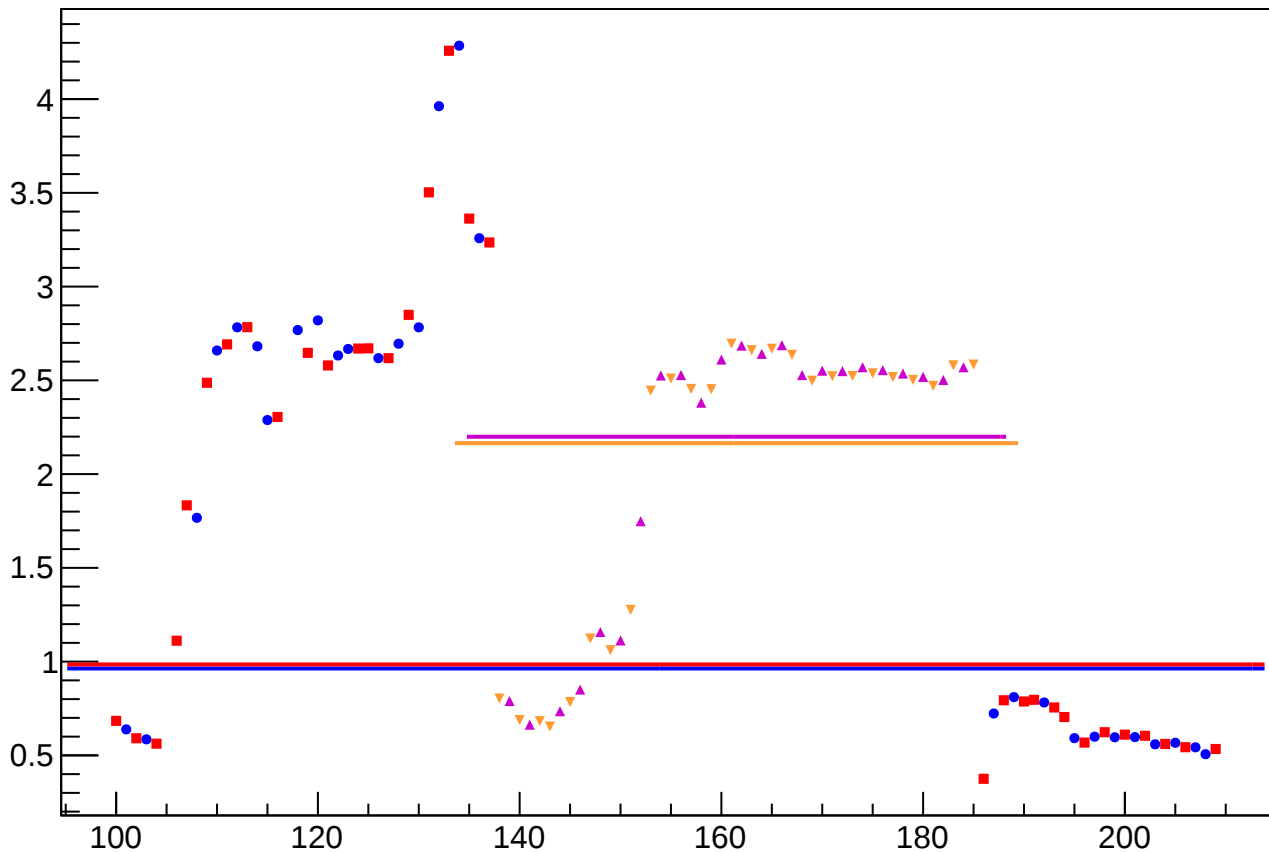
Right: 0.004+/-0.000 χ^2/NDF : 6307820.4/59

In: 0.005+/-0.000 χ^2/NDF :5637030.5/50

Out: 0.004+/-0.000 χ^2/NDF :6071907.3/56

All: 0.005+/-0.000 χ^2/NDF : 11716103.7/107

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: 0.985 $\pm$ 0.000 χ^2 /NDF: 346316138390.9/31

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

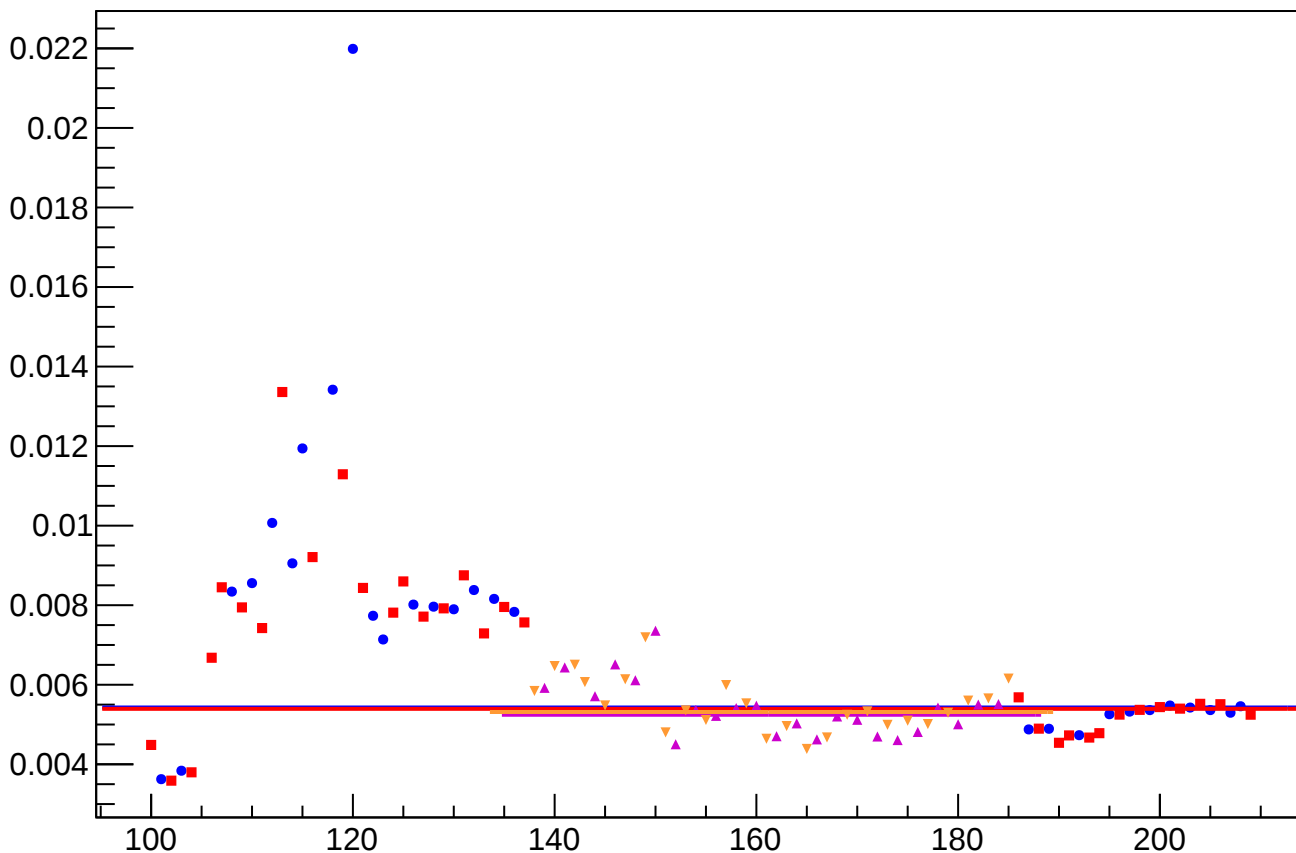
Right: 0.975 $\pm$ 0.000 χ^2 /NDF: 644230163120.0/59

In: 1.679 $\pm$ 0.000 χ^2 /NDF: 918762310759.0/50

Out: 1.640 $\pm$ 0.000 χ^2 /NDF: 1003141718569.3/56

All: 1.659 $\pm$ 0.000 χ^2 /NDF: 1922691230564.

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 : 1878769.2/31

Left In: 0.005+/-0.000 χ^2/NDF :425864.8/22

Left: 0.005+/-0.000 χ^2/NDF : 827475.4/47

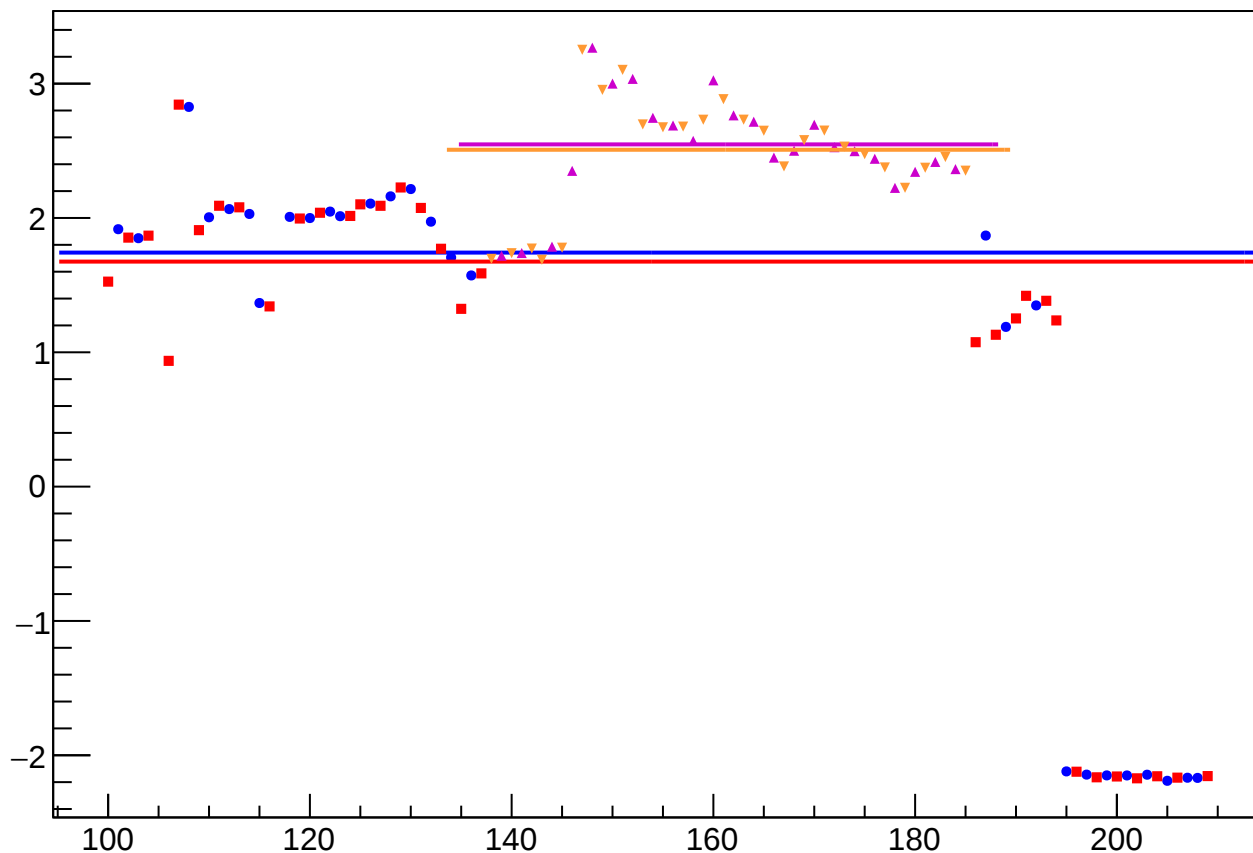
Right: 0.005+/-0.000 χ^2/NDF : 3885454.4/59

In: 0.005+/-0.000 χ^2/NDF :2448087.3/50

Out: 0.005+/-0.000 χ^2/NDF :2280871.4/56

All: 0.005+/-0.000 χ^2/NDF : 4729779.7/107

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: 1.675 $\pm$ 0.000 χ^2 /NDF: 139154955059.8/31

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

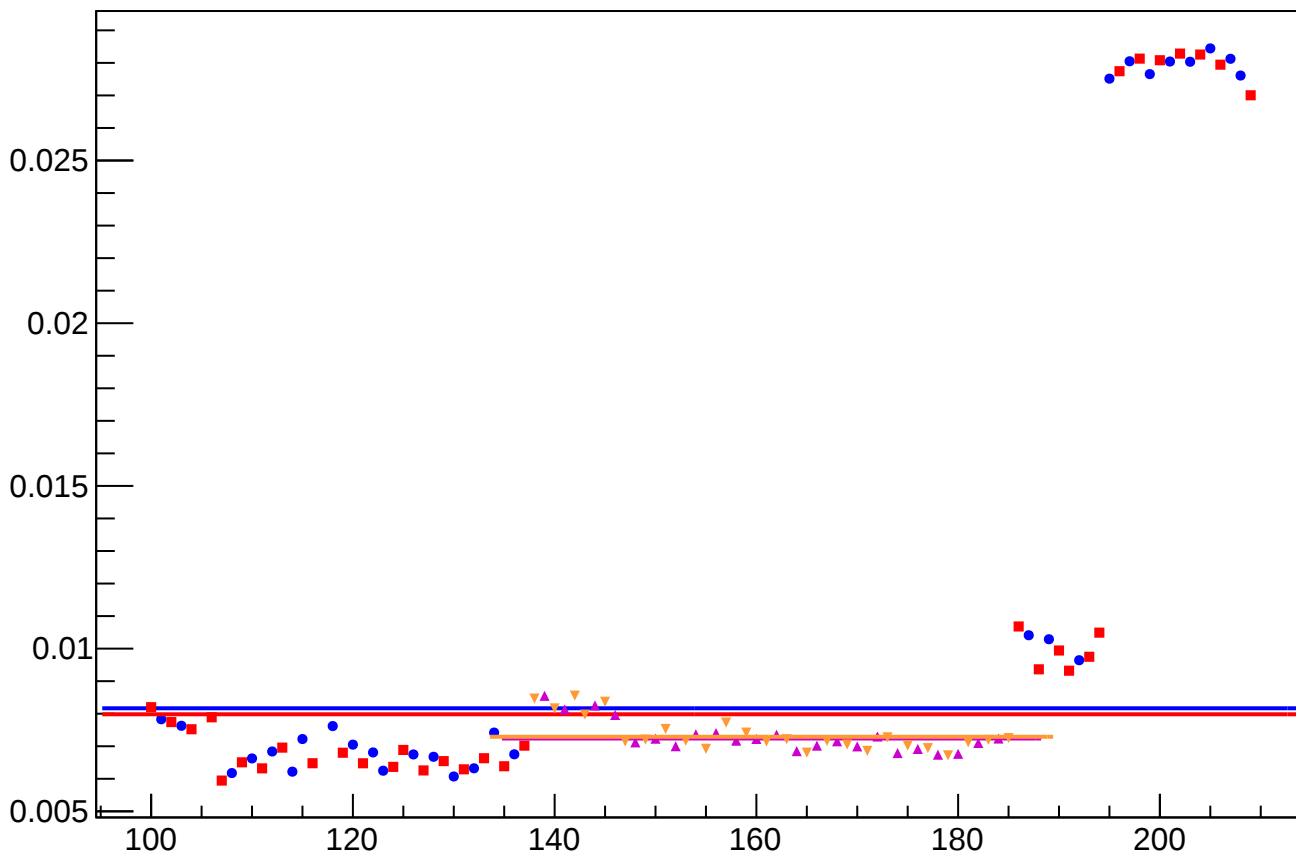
Right: 1.706 $\pm$ 0.000 χ^2 /NDF: 285600407009.7/59

In: 2.278 $\pm$ 0.000 χ^2 /NDF: 260239561778.2/50

Out: 2.200 $\pm$ 0.000 χ^2 /NDF: 275544210699.5/56

All: 2.238 $\pm$ 0.000 χ^2 /NDF: 537281893824.2

yield_bpm0l06X_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 6893780.4/27

Left Out: 0.007+/-0.000 χ^2/NDF :140788.4/24

Right Out: 0.008+/-0.000 χ^2/NDF : 6258840.7/31

Left In: 0.007+/-0.000 χ^2/NDF :125233.2/22

Left: 0.007+/-0.000 χ^2/NDF : 266945.6/47

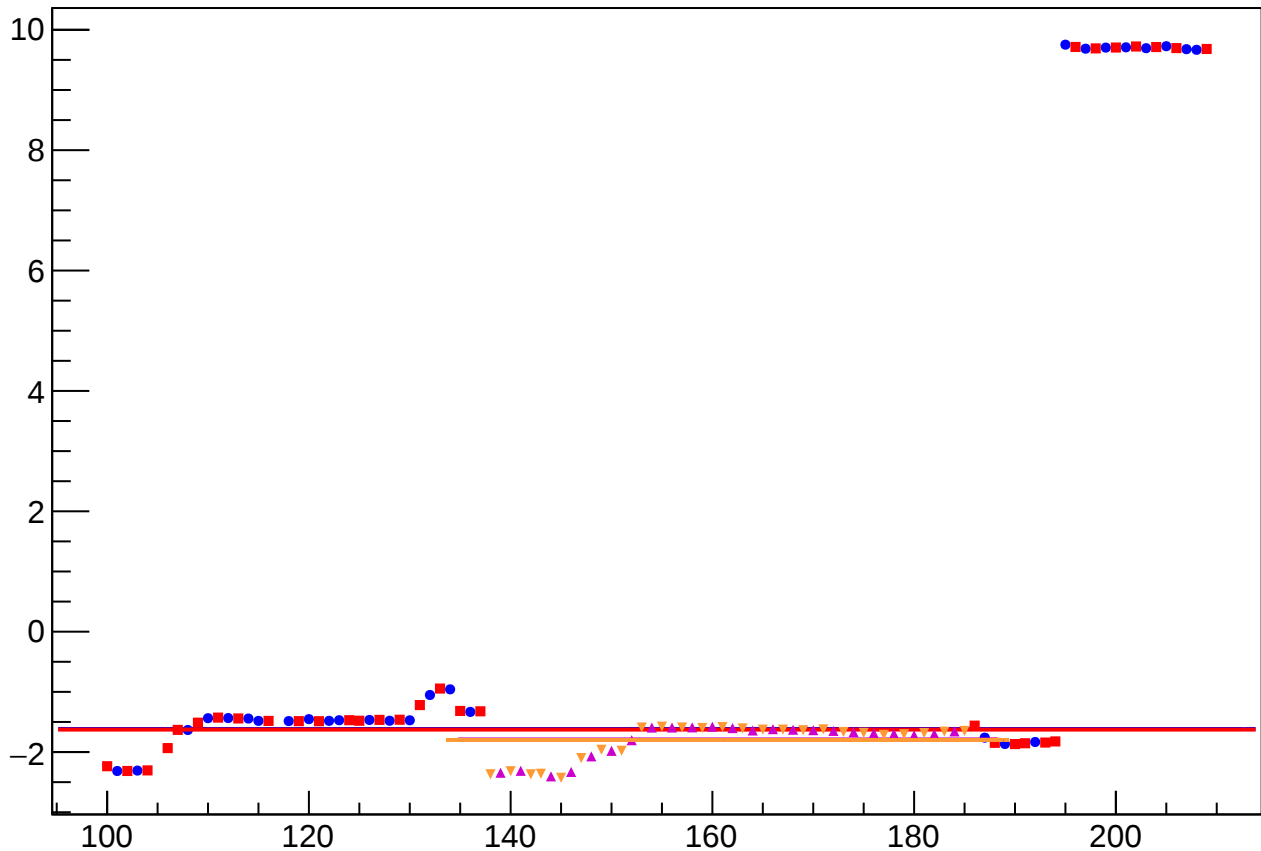
Right: 0.008+/-0.000 χ^2/NDF : 13158560.7/59

In: 0.008+/-0.000 χ^2/NDF :7201964.8/50

Out: 0.008+/-0.000 χ^2/NDF :6515214.0/56

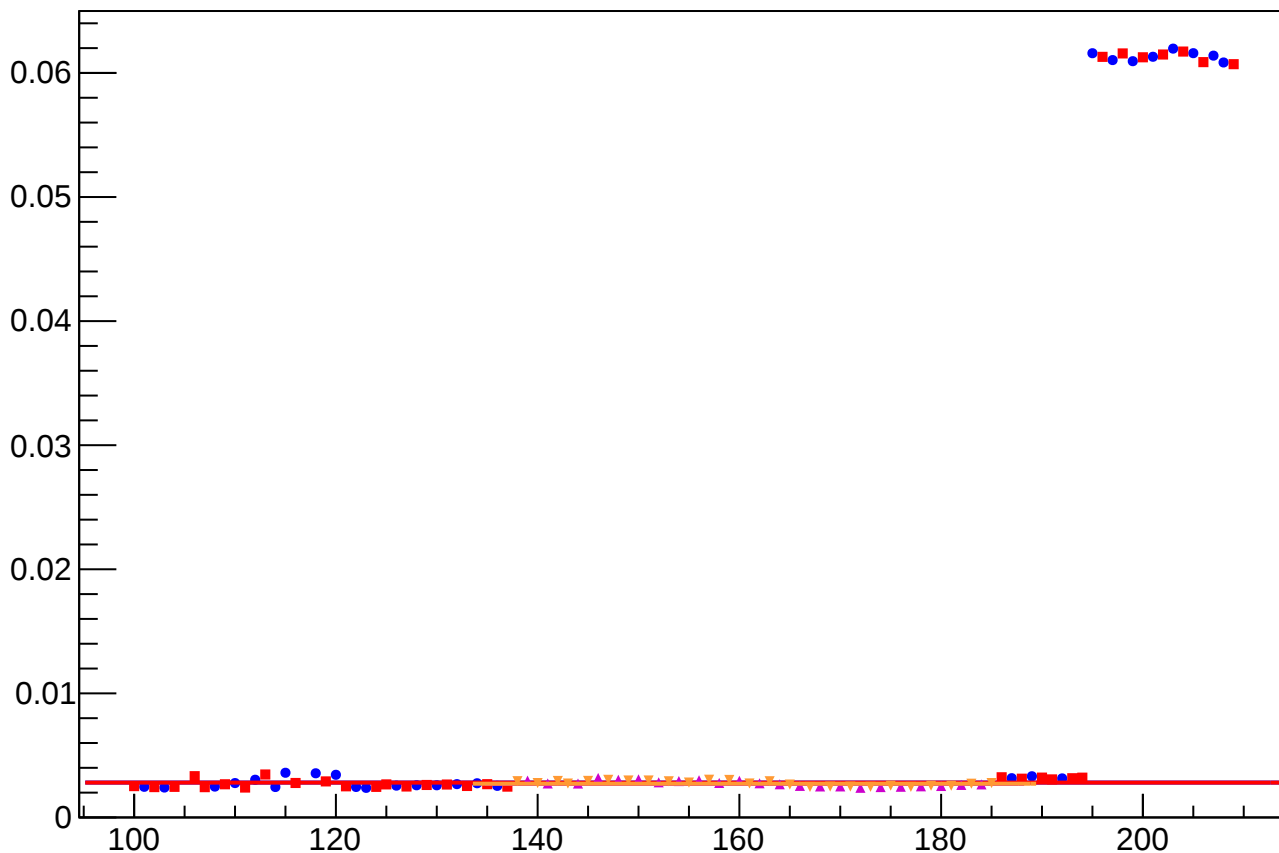
All: 0.008+/-0.000 χ^2/NDF : 13717182.0/107

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: -1.622+/-0.000	χ^2/NDF : 699633652117.0/59
Right Out: -1.627+/-0.000	χ^2/NDF : 340427430240.0/31	In: -1.736+/-0.000	χ^2/NDF : 540297481481.9/50
Left In: -1.790+/-0.000	χ^2/NDF : 159648935510.8/22	Out: -1.738+/-0.000	χ^2/NDF : 550581456428.4/56
		All: -1.737+/-0.000	χ^2/NDF : 1090889799913

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 : 9926727.9/31

Left In: 0.003+/-0.000 χ^2/NDF :220327.9/22

Left: 0.003+/-0.000 χ^2/NDF : 420716.9/47

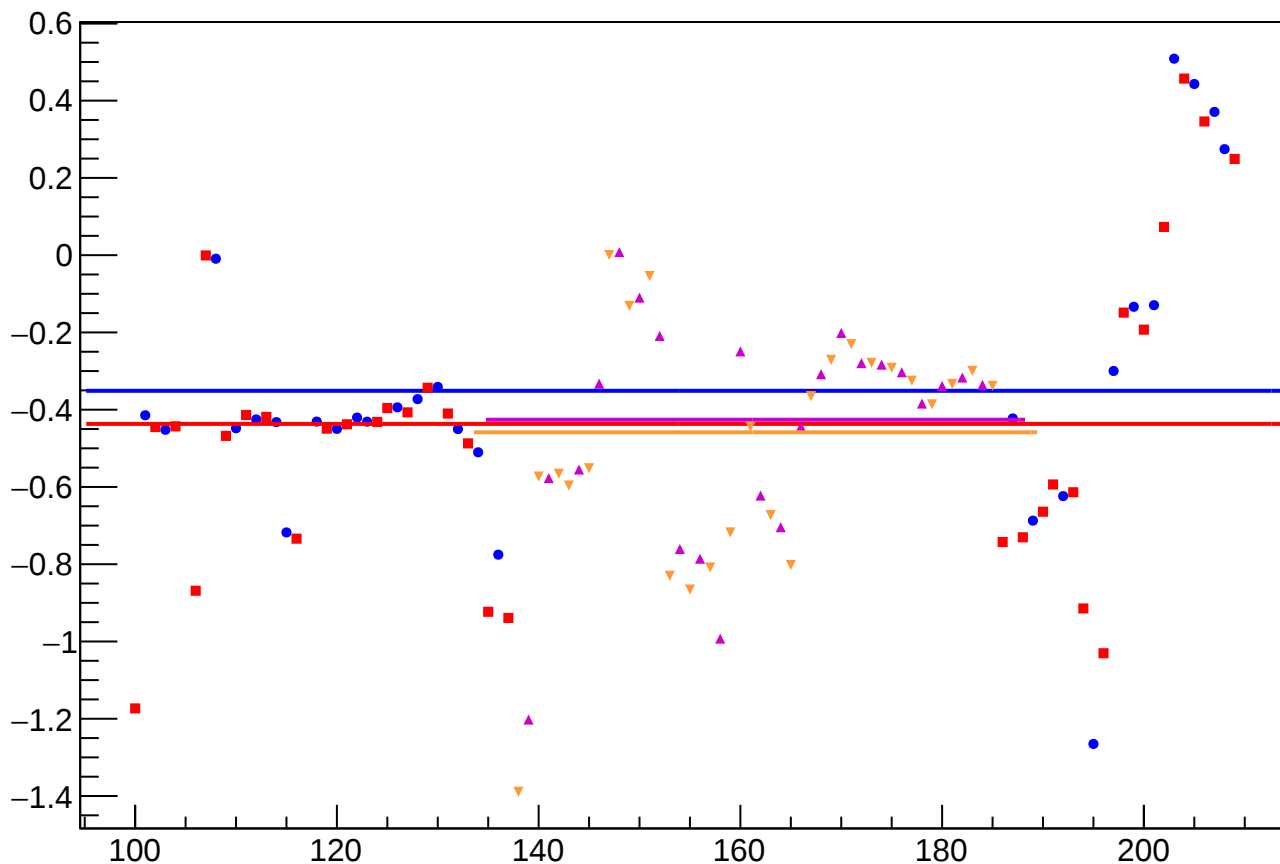
Right: 0.003+/-0.000 χ^2/NDF : 21497141.5/59

In: 0.003+/-0.000 χ^2/NDF :11808593.4/50

Out: 0.003+/-0.000 χ^2/NDF :10139960.4/56

All: 0.003+/-0.000 χ^2/NDF : 21949224.3/107

yield_bpm0l07X_mean vs Slug, Sign Corrected



Right In: -0.351+/-0.000 χ^2/NDF : 10024211695.0/27

Left Out: -0.459+/-0.000 χ^2/NDF : 9916462814.9/24

Right Out: -0.437+/-0.000 χ^2/NDF : 9954538497.4/31

Left In: -0.426+/-0.000 χ^2/NDF : 8424222576.0/22

Left: -0.443+/-0.000 χ^2/NDF : 18401926676.9/47

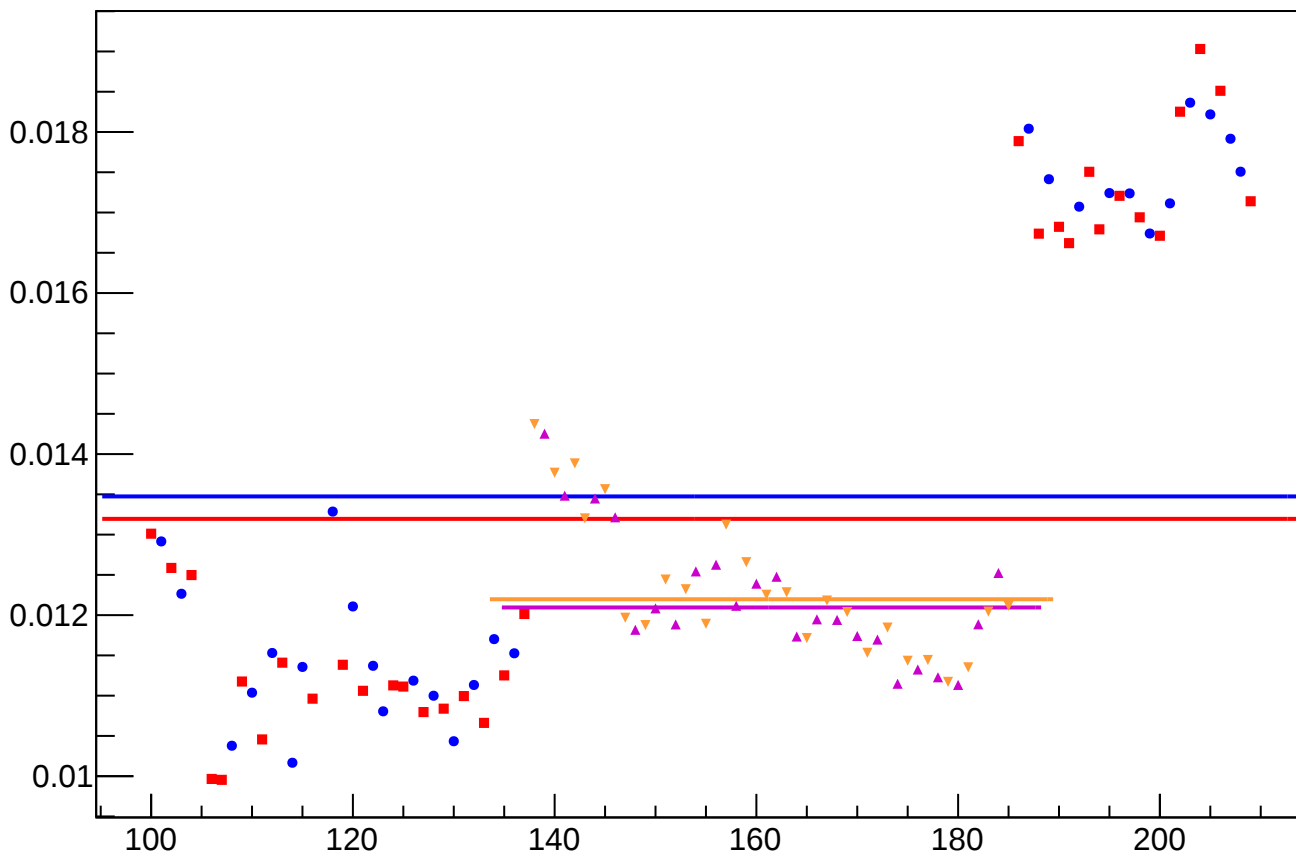
Right: -0.397+/-0.000 χ^2/NDF : 20268146549.3/59

In: -0.396+/-0.000 χ^2/NDF : 18699430040.2/50

Out: -0.449+/-0.000 χ^2/NDF : 19894320429.4/56

All: -0.424+/-0.000 χ^2/NDF : 38867383215.6/100

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 : 1552569.6/31

Left In: 0.012+/-0.000 χ^2/NDF :127308.3/22

Left: 0.012+/-0.000 χ^2/NDF : 270367.5/47

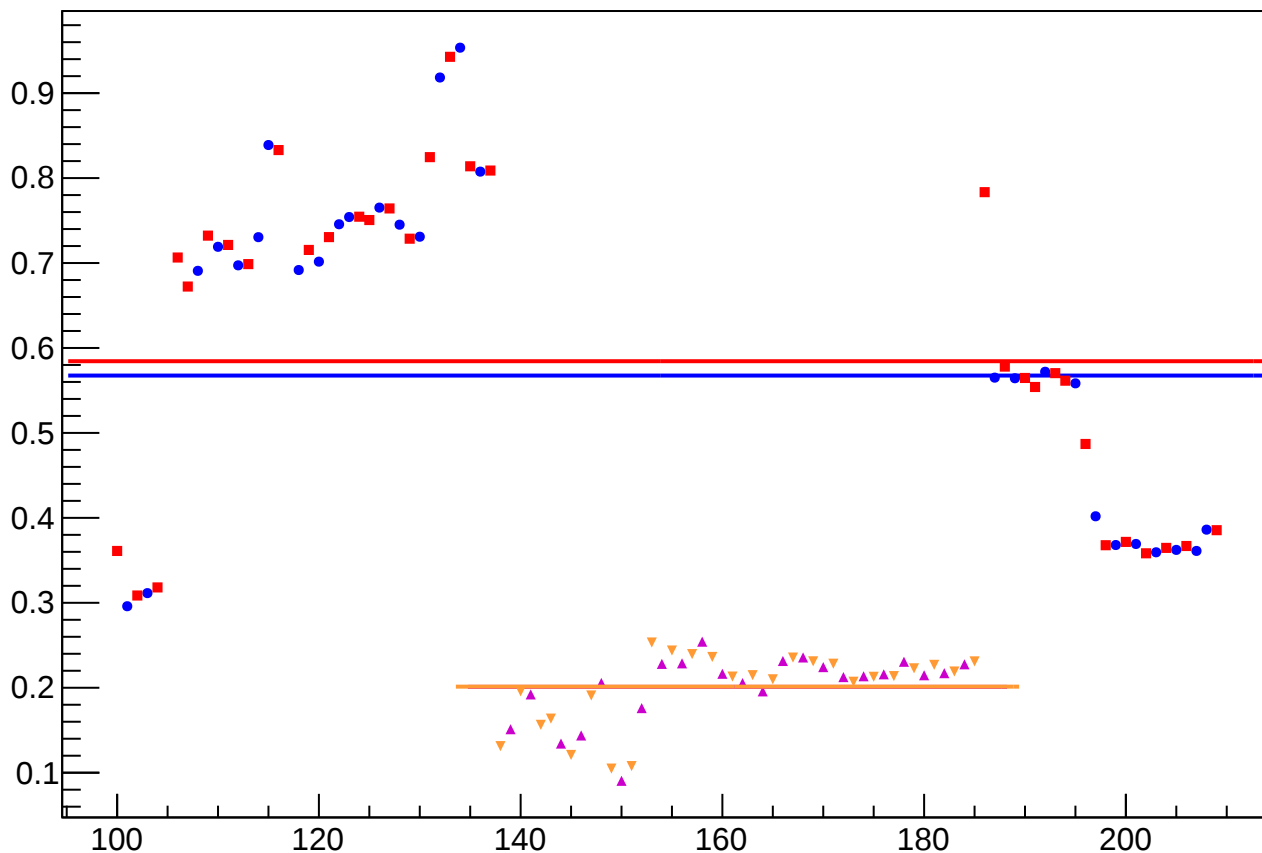
Right: 0.013+/-0.000 χ^2/NDF : 2822025.9/59

In: 0.013+/-0.000 χ^2/NDF :1560986.2/50

Out: 0.013+/-0.000 χ^2/NDF :1792614.8/56

All: 0.013+/-0.000 χ^2/NDF : 3353730.8/107

yield_bpm0l07Y_mean vs Slug, Sign Corrected



Right In: 0.568 $\pm$ 0.000

χ^2 /NDF: 72715260747.5/27

Left: 0.201 $\pm$ 0.000

χ^2 /NDF: 12762673178.0/47

Left Out: 0.201 $\pm$ 0.000

χ^2 /NDF: 7090760823.7/24

Right: 0.576 $\pm$ 0.000

χ^2 /NDF: 144178847605.7/59

Right Out: 0.584 $\pm$ 0.000

χ^2 /NDF: 71183668572.5/31

In: 0.322 $\pm$ 0.000

χ^2 /NDF: 246978781284.8/50

Out: 0.330 $\pm$ 0.000

χ^2 /NDF: 278415283504.5/56

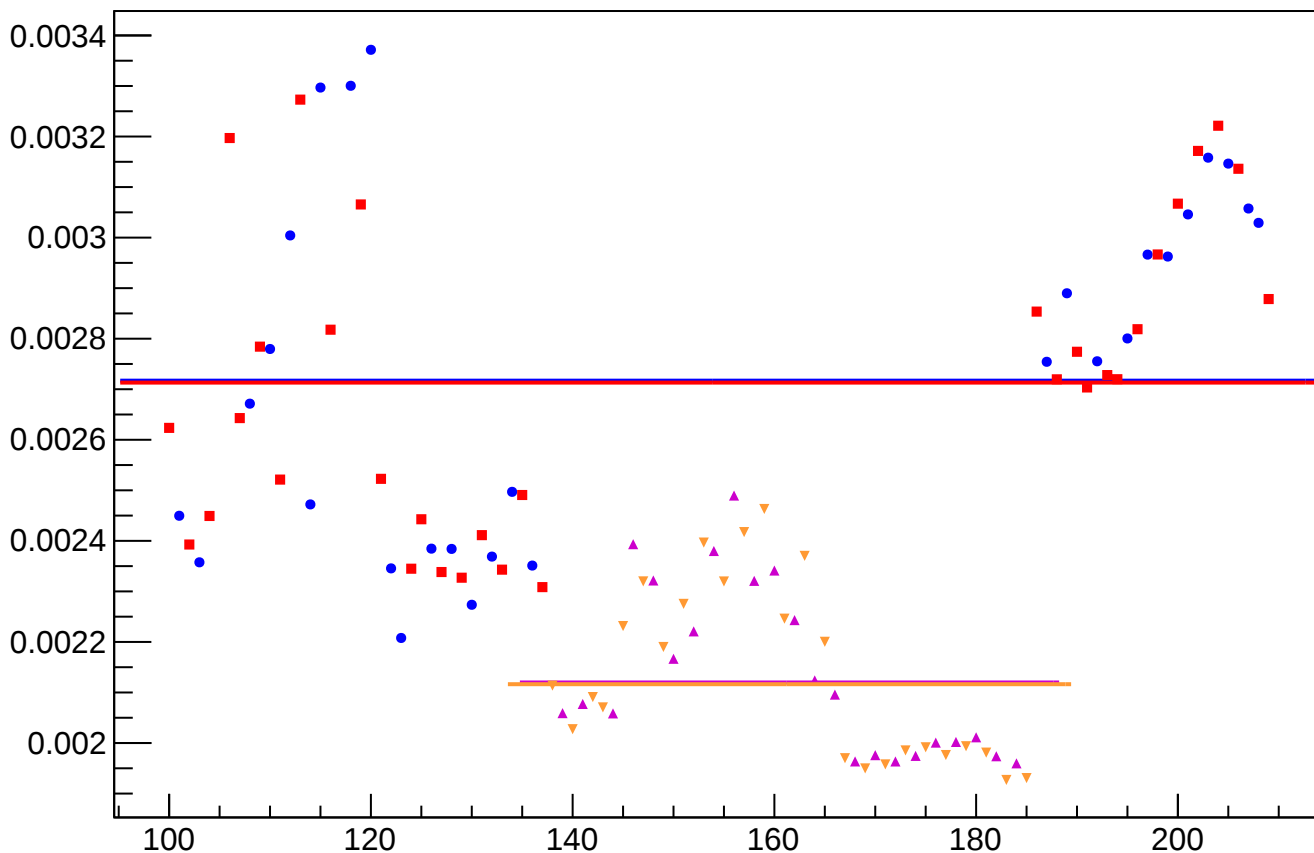
Left In: 0.201 $\pm$ 0.000

χ^2 /NDF: 5671770181.2/22

All: 0.326 $\pm$ 0.000

χ^2 /NDF: 525611064271.2

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 : 328443.2/31

Left In: 0.002+/-0.000 χ^2/NDF :189228.6/22

Left: 0.002+/-0.000 χ^2/NDF : 413772.2/47

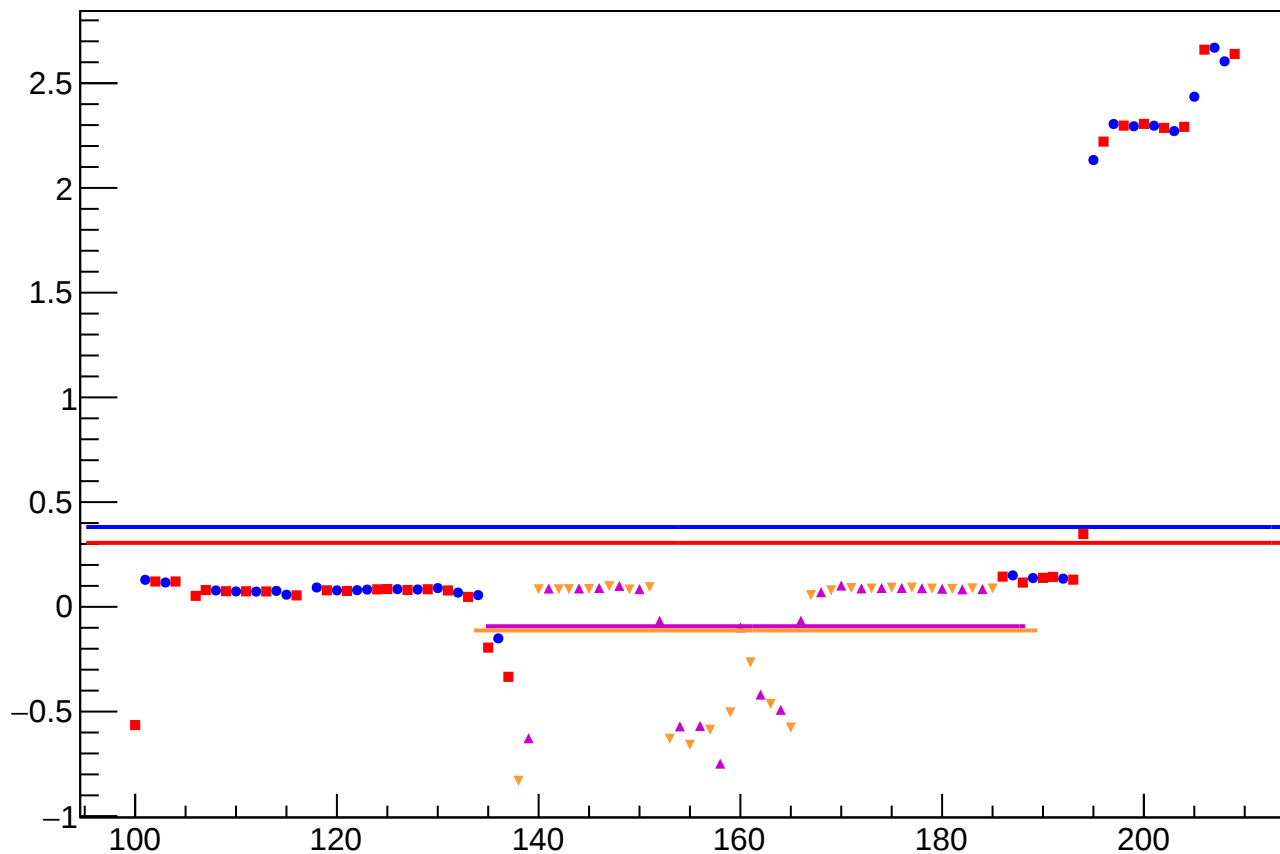
Right: 0.003+/-0.000 χ^2/NDF : 729354.5/59

In: 0.002+/-0.000 χ^2/NDF :1485383.0/50

Out: 0.002+/-0.000 χ^2/NDF :1524136.2/56

All: 0.002+/-0.000 χ^2/NDF : 3009523.8/107

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: 0.340+/-0.000

χ^2/NDF : 106955721162.2/59

Right Out: 0.305+/-0.000

χ^2/NDF : 51835204185.7/31

In: 0.087+/-0.000

χ^2/NDF : 77739655608.8/50

Out: 0.059+/-0.000

χ^2/NDF : 75906879848.7/56

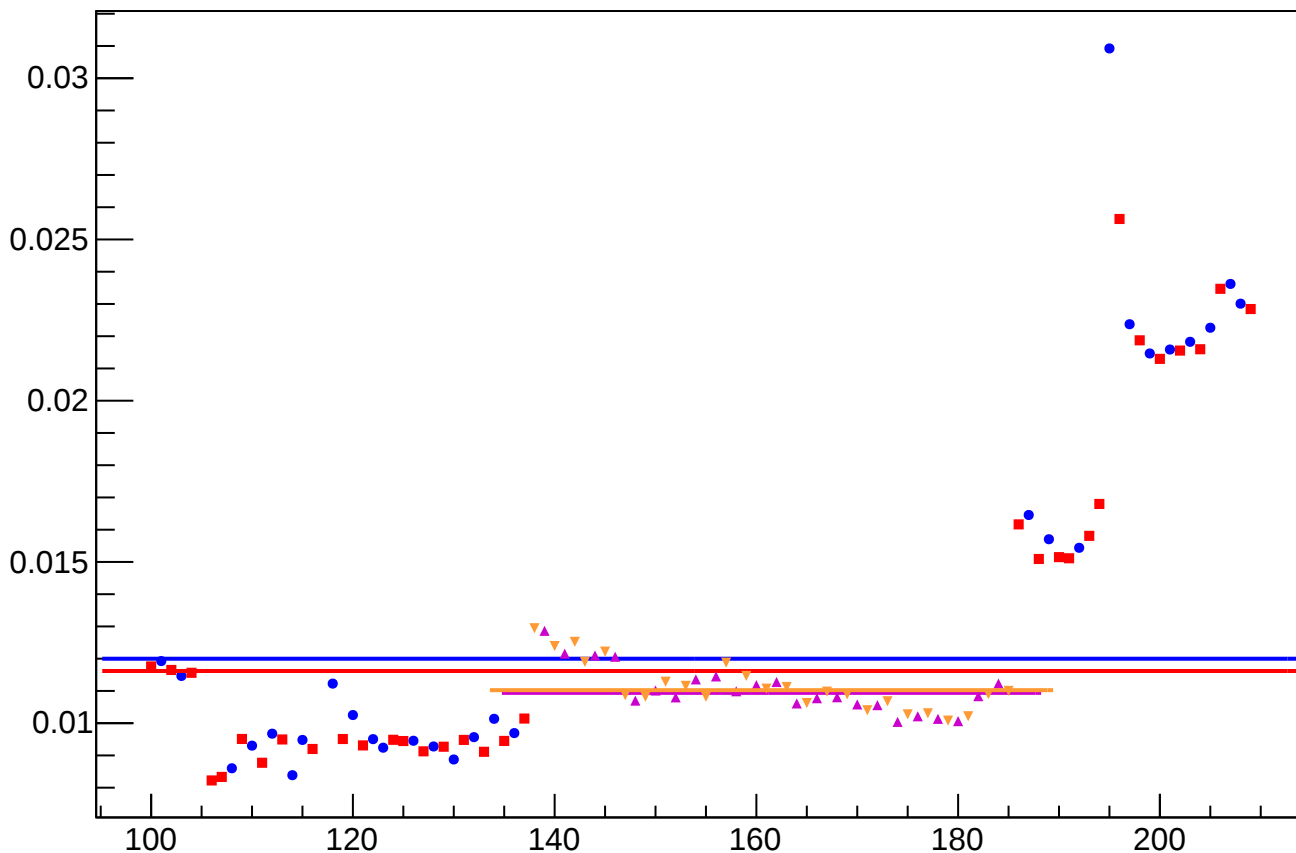
Left In: -0.093+/-0.000

χ^2/NDF : 11051944893.7/22

All: 0.073+/-0.000

χ^2/NDF : 153740804230.8

yield_bpm0l08X_rms vs Slug, Sign Corrected



Right In: 0.012 $\pm$ 0.000 χ^2 /NDF: 3852924.6/27

Left Out: 0.011 $\pm$ 0.000 χ^2 /NDF:141501.7/24

Right Out: 0.012 $\pm$ 0.000 χ^2 /NDF: 3803429.1/31

Left In: 0.011 $\pm$ 0.000 χ^2 /NDF:128914.2/22

Left: 0.011 $\pm$ 0.000 χ^2 /NDF: 271400.1/47

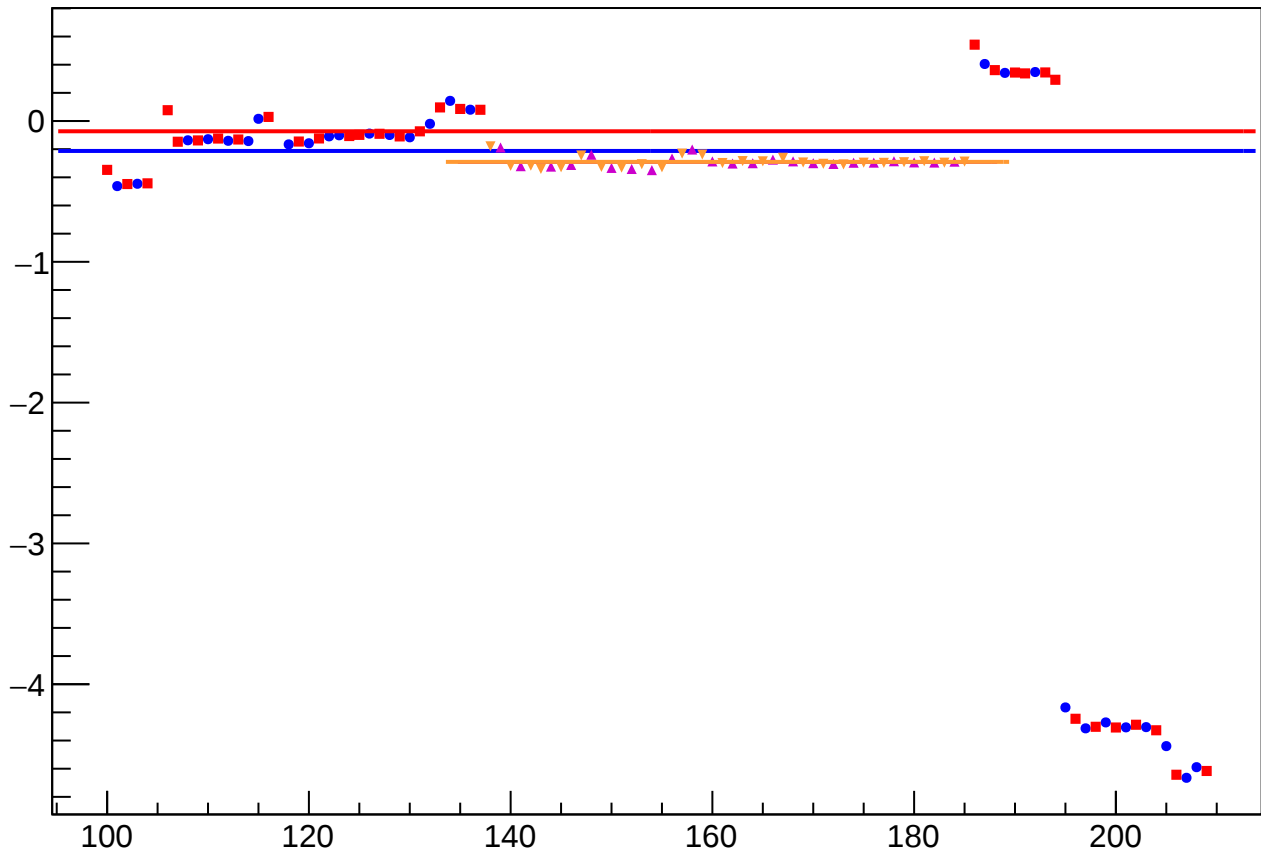
Right: 0.012 $\pm$ 0.000 χ^2 /NDF: 7669752.5/59

In: 0.011 $\pm$ 0.000 χ^2 /NDF:4099992.3/50

Out: 0.011 $\pm$ 0.000 χ^2 /NDF:3986937.7/56

All: 0.011 $\pm$ 0.000 χ^2 /NDF: 8088246.6/107

yield_bpm0l08Y_mean vs Slug, Sign Corrected



Right In: -0.213 ± 0.000 $\chi^2/\text{NDF}: 338172374161.0/27$

Left Out: -0.290 ± 0.000 $\chi^2/\text{NDF}: 2877519093.0/24$

Right Out: -0.073 ± 0.000 $\chi^2/\text{NDF}: 333917059915.2/31$

Left In: -0.291 ± 0.000 $\chi^2/\text{NDF}: 3125402243.3/22$

Left: -0.291 ± 0.000 $\chi^2/\text{NDF}: 6003615293.4/47$

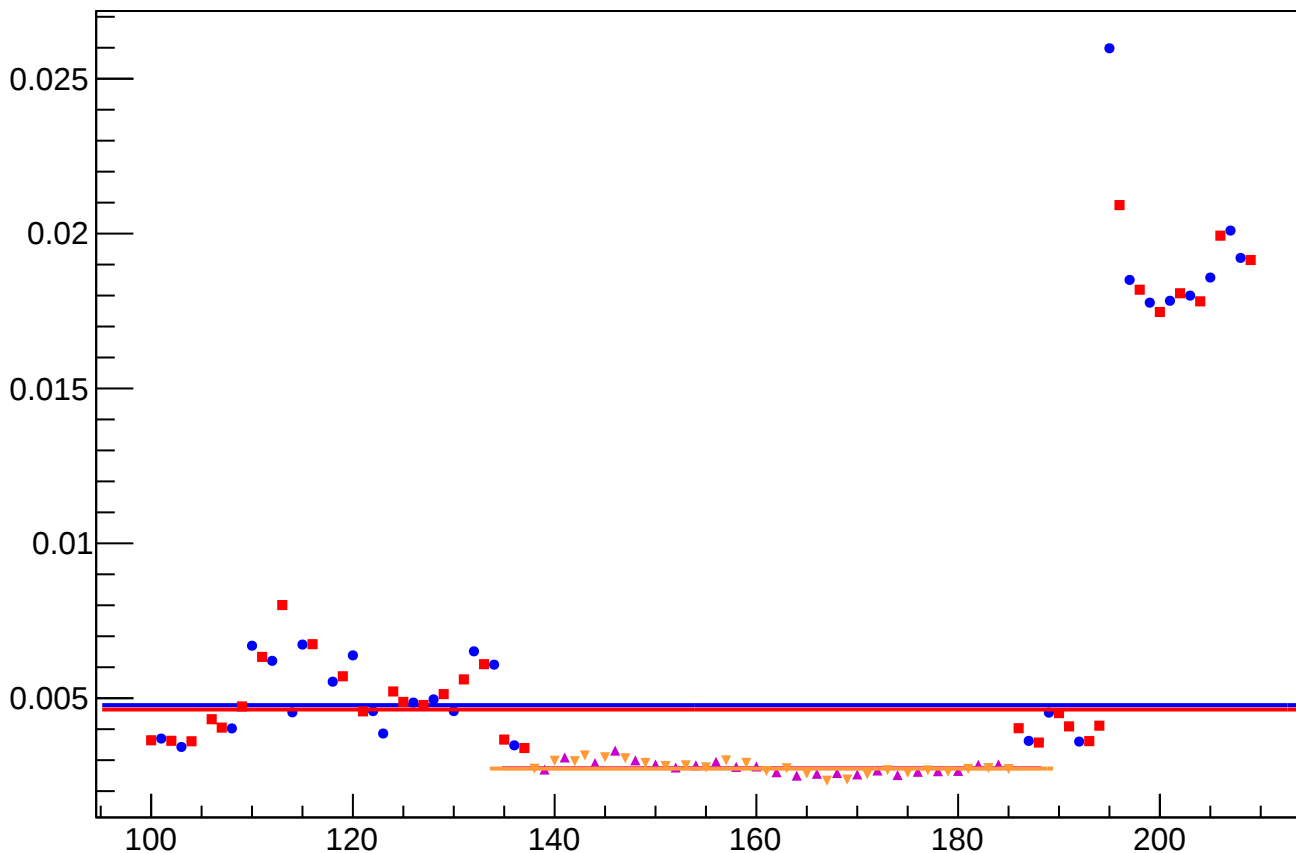
Right: -0.135 ± 0.000 $\chi^2/\text{NDF}: 676718175904.4/59$

In: -0.278 ± 0.000 $\chi^2/\text{NDF}: 343501896925.9/50$

Out: -0.250 ± 0.000 $\chi^2/\text{NDF}: 357311166378.3/56$

All: -0.264 ± 0.000 $\chi^2/\text{NDF}: 701891306708.2$

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 : 6936136.9/31

Left In: 0.003+/-0.000 χ^2/NDF :147778.8/22

Left: 0.003+/-0.000 χ^2/NDF : 354733.7/47

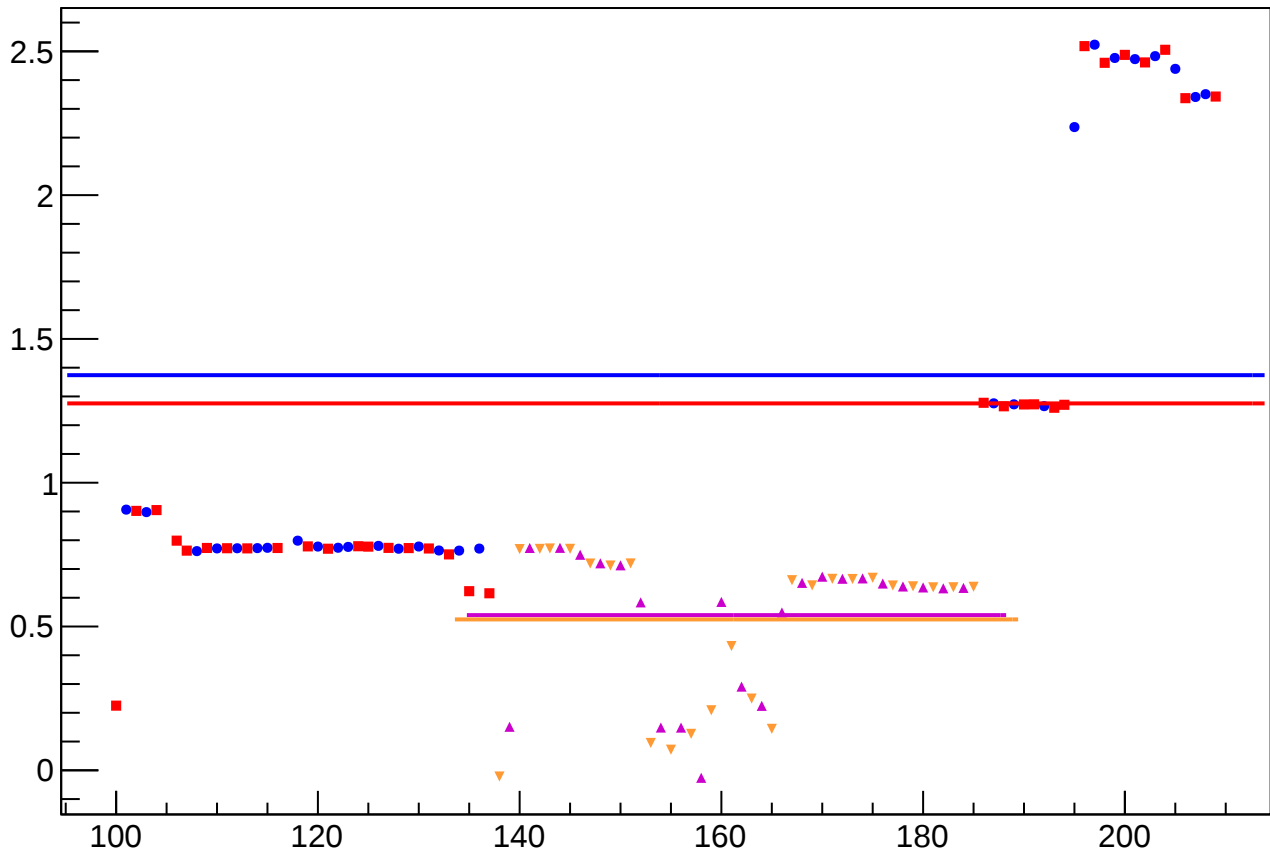
Right: 0.005+/-0.000 χ^2/NDF : 14925065.8/59

In: 0.003+/-0.000 χ^2/NDF :11092192.7/50

Out: 0.003+/-0.000 χ^2/NDF :10298872.0/56

All: 0.003+/-0.000 χ^2/NDF : 21391153.2/107

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: 1.321+/-0.000

χ^2/NDF : 106117230865.5/59

Right Out: 1.276+/-0.000

χ^2/NDF : 53093193302.1/31

In: 0.859+/-0.000

χ^2/NDF : 99283124801.0/50

Out: 0.830+/-0.000

χ^2/NDF : 97702566353.5/56

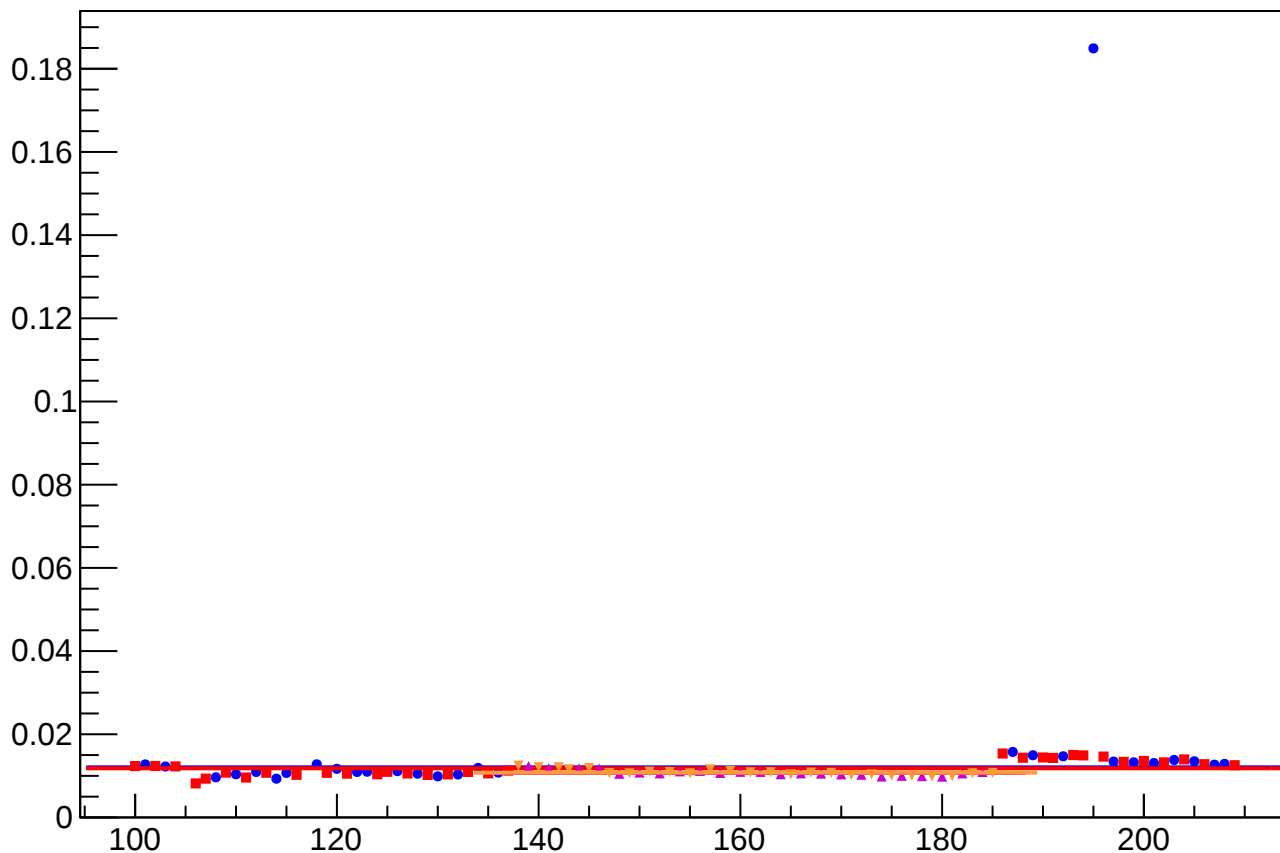
Left In: 0.540+/-0.000

χ^2/NDF : 7860539135.5/22

All: 0.844+/-0.000

χ^2/NDF : 197087162388.3

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 : 725978.8/31

Left In: 0.011+/-0.000 χ^2/NDF :119273.2/22

Left: 0.011+/-0.000 χ^2/NDF : 251802.6/47

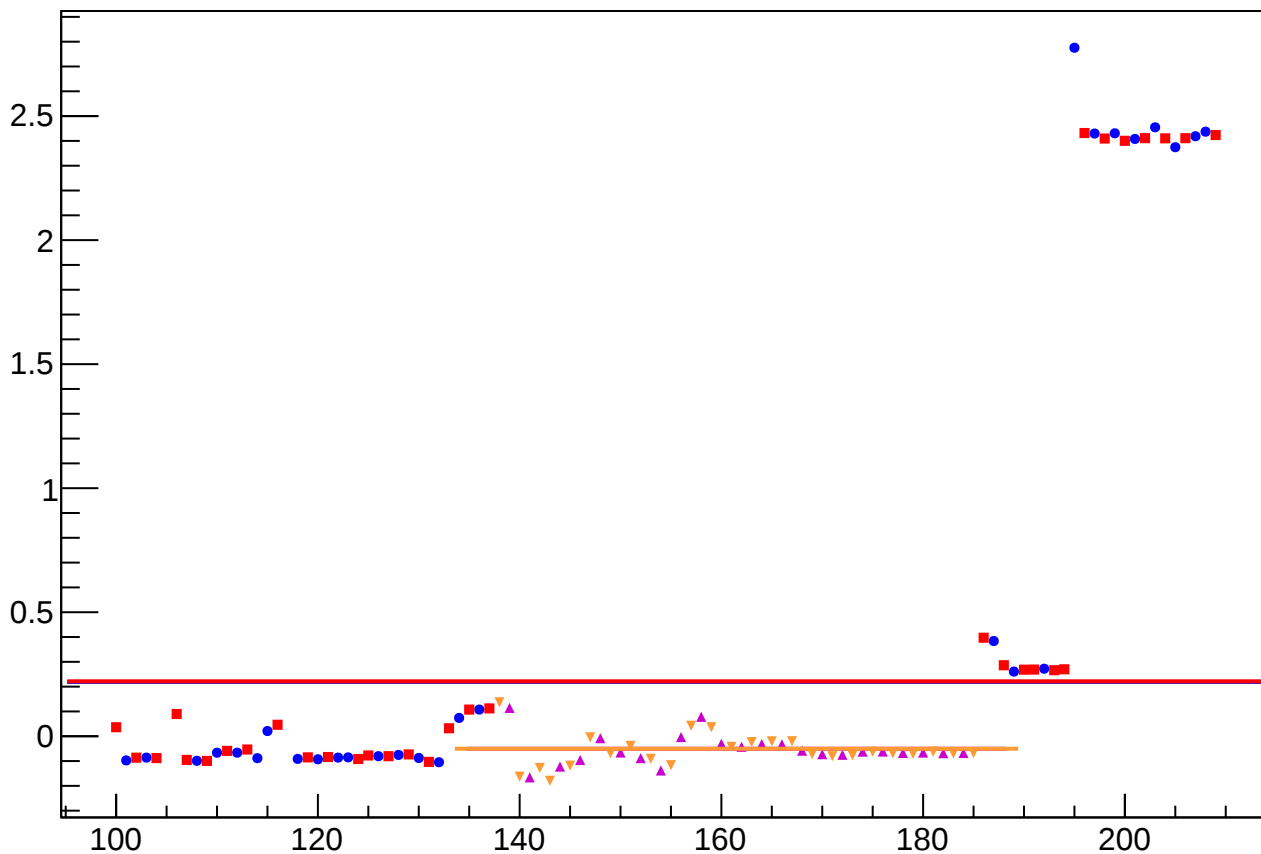
Right: 0.012+/-0.000 χ^2/NDF : 2626240.6/59

In: 0.011+/-0.000 χ^2/NDF :2218370.8/50

Out: 0.011+/-0.000 χ^2/NDF :992996.8/56

All: 0.011+/-0.000 χ^2/NDF : 3211419.3/107

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: 0.220+/-0.000

χ^2/NDF : 337198298998.0/59

Right Out: 0.221+/-0.000

χ^2/NDF : 159406291987.7/31

In: -0.000+/-0.000

χ^2/NDF : 207978347037.5/50

Out: 0.003+/-0.000

χ^2/NDF : 194566477442.4/56

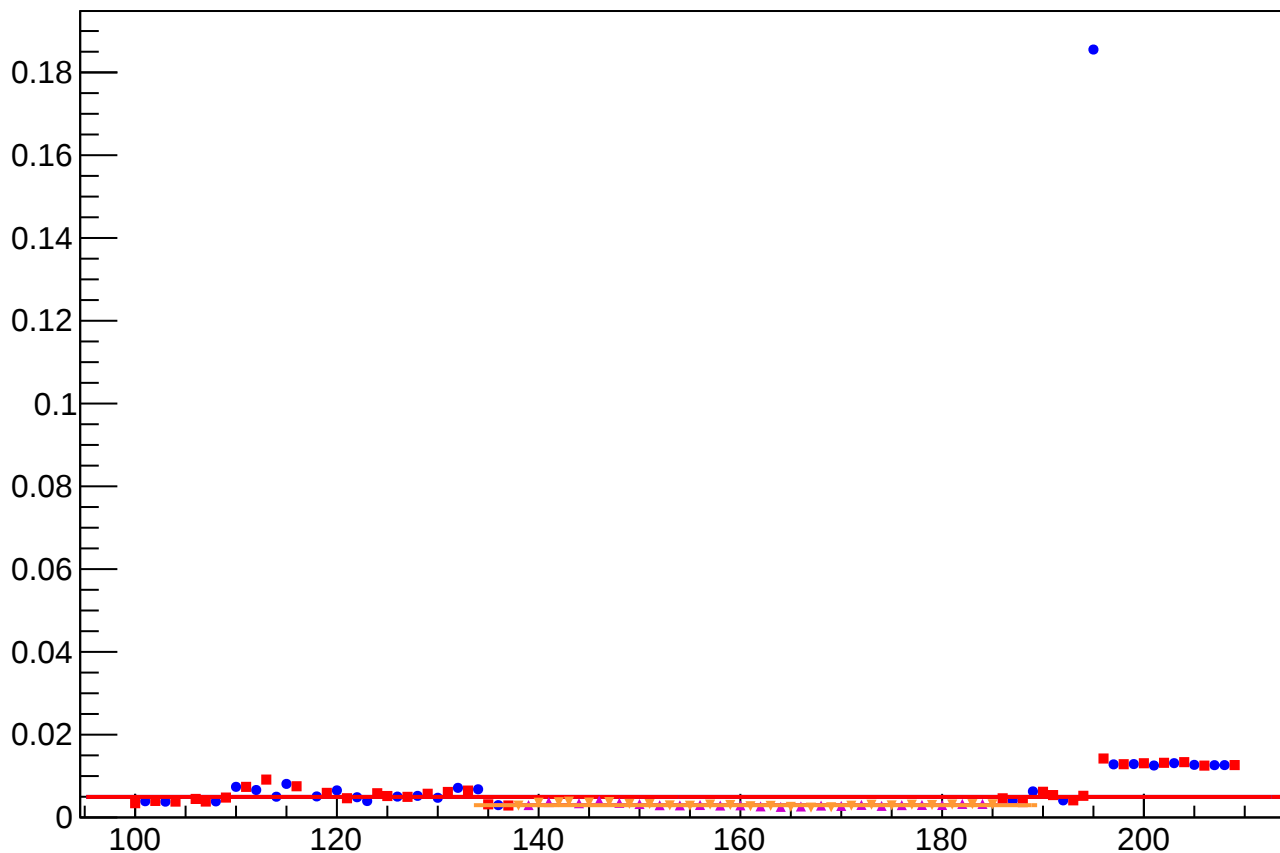
Left In: -0.051+/-0.000

χ^2/NDF : 6128769990.8/22

All: 0.001+/-0.000

χ^2/NDF : 402555498334.6

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 : 5094886.6/31

Left In: 0.003+/-0.000 χ^2/NDF : 329068.1/22

Left: 0.003+/-0.000 χ^2/NDF : 831077.6/47

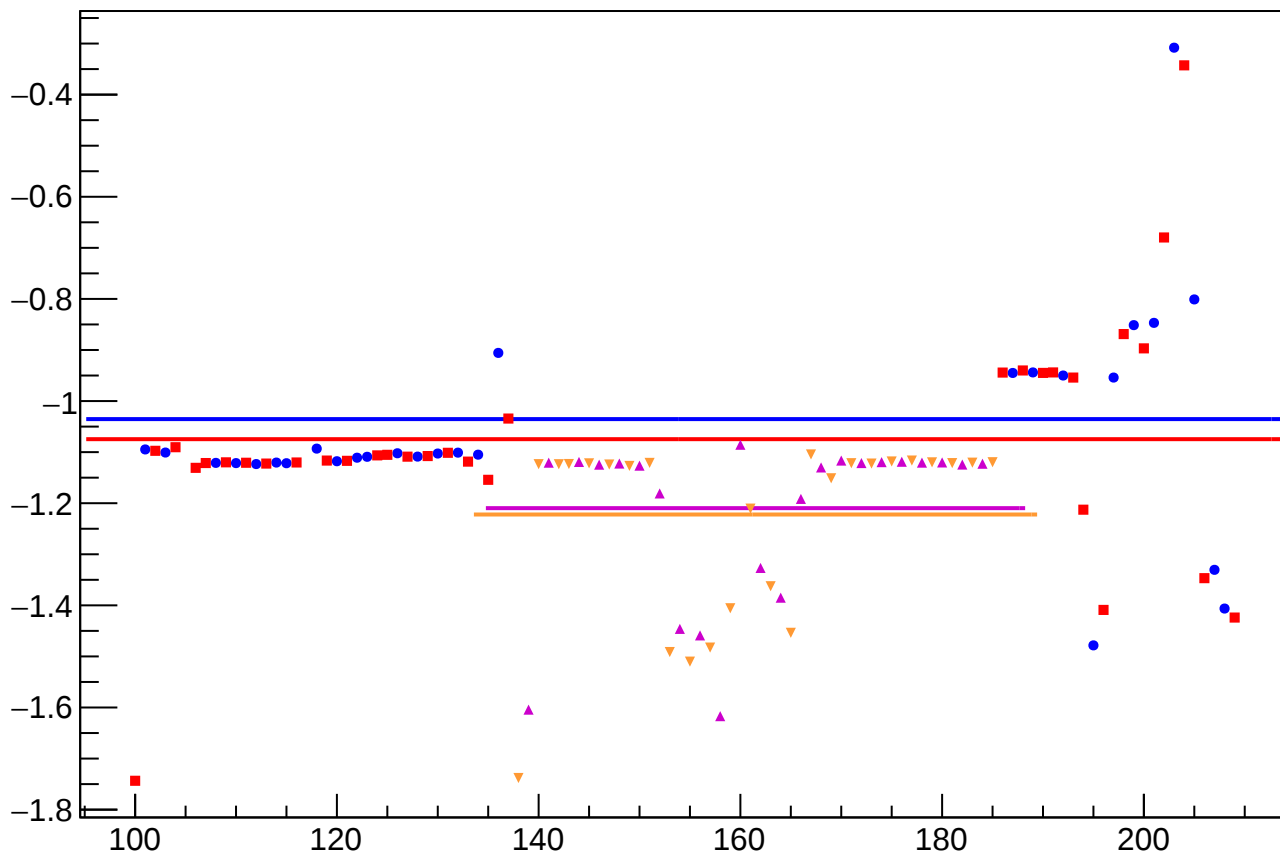
Right: 0.005+/-0.000 χ^2/NDF : 11936630.7/59

In: 0.003+/-0.000 χ^2/NDF : 9699093.6/50

Out: 0.003+/-0.000 χ^2/NDF : 8604368.8/56

All: 0.003+/-0.000 χ^2/NDF : 18303950.4/107

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: -1.075+/-0.000 χ^2/NDF : 4634128641.6/31

Left In: -1.210+/-0.000 χ^2/NDF : 4502367902.8/22

Left: -1.216+/-0.000 χ^2/NDF : 9796254294.5/47

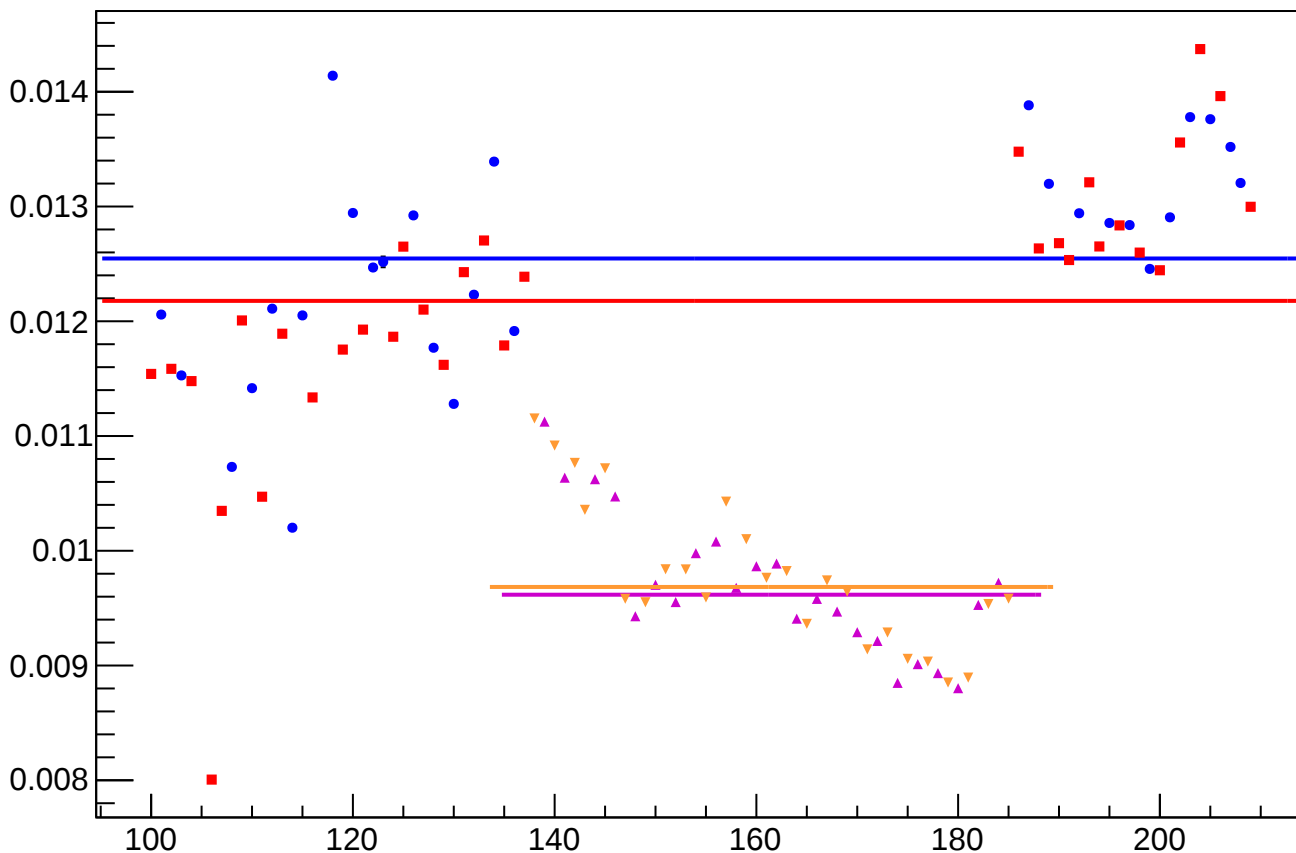
Right: -1.056+/-0.000 χ^2/NDF : 9653485174.6/59

In: -1.152+/-0.000 χ^2/NDF : 11258434988.4/50

Out: -1.170+/-0.000 χ^2/NDF : 11366573792.1/56

All: -1.162+/-0.000 χ^2/NDF : 22669100984.9/112

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 : 325779.4/31

Left In: 0.010+/-0.000 χ^2/NDF :119823.1/22

Left: 0.010+/-0.000 χ^2/NDF : 255532.7/47

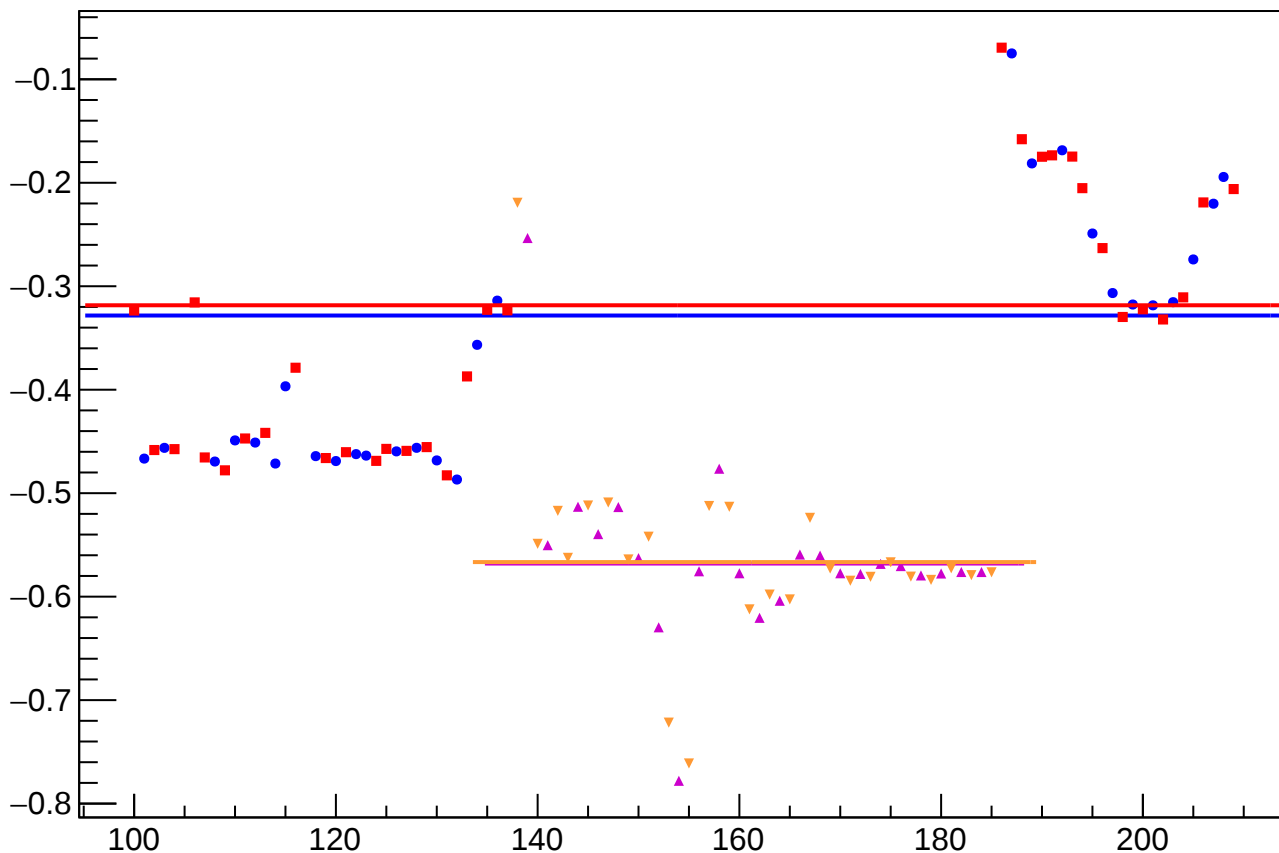
Right: 0.012+/-0.000 χ^2/NDF : 471075.1/59

In: 0.011+/-0.000 χ^2/NDF :1274583.2/50

Out: 0.011+/-0.000 χ^2/NDF :1290784.4/56

All: 0.011+/-0.000 χ^2/NDF : 2565440.2/107

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: -0.323+/-0.000

χ^2/NDF : 22096348677.9/59

Right Out: -0.318+/-0.000

χ^2/NDF : 12084580140.1/31

In: -0.471+/-0.000

χ^2/NDF : 54705198590.5/50

Out: -0.470+/-0.000

χ^2/NDF : 63803445550.7/56

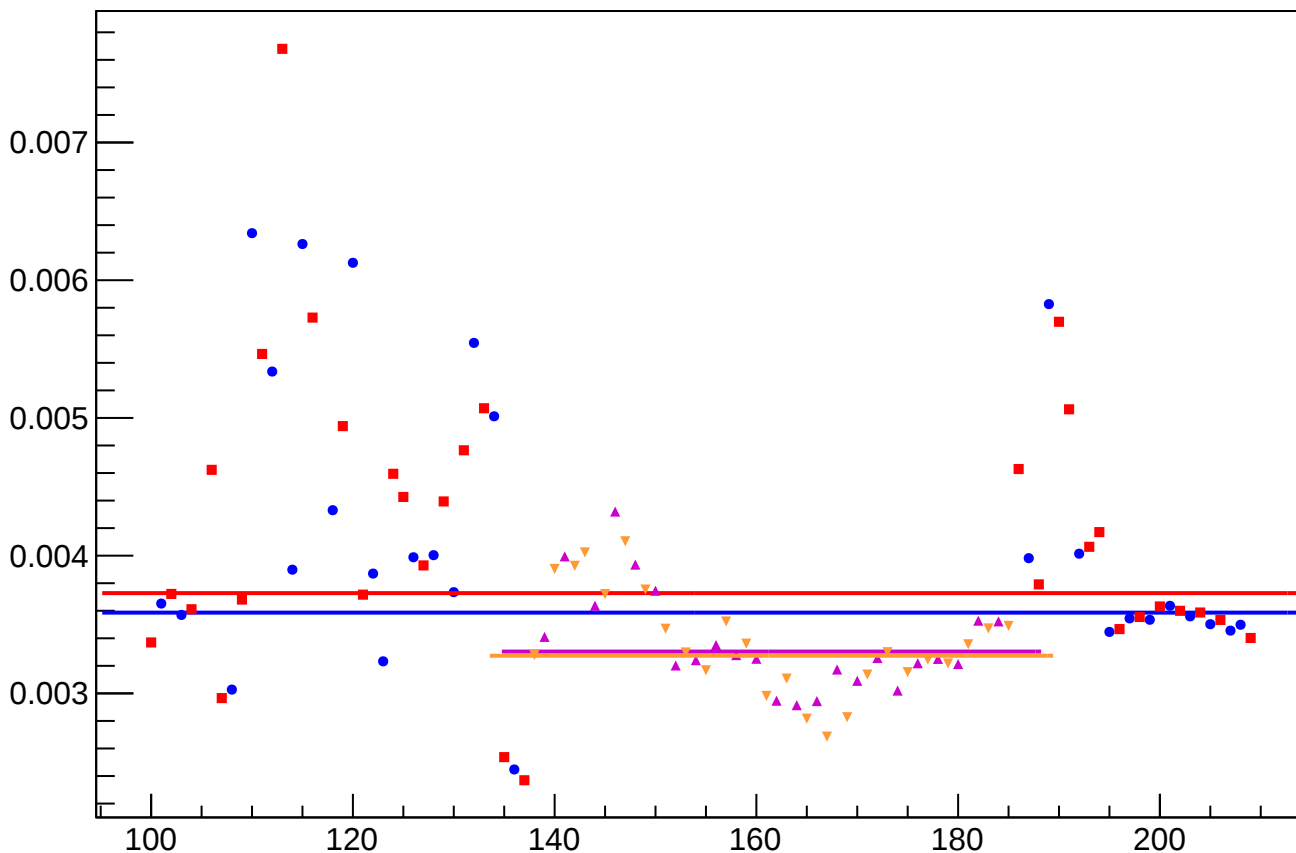
Left In: -0.568+/-0.000

χ^2/NDF : 10458990019.9/22

All: -0.471+/-0.000

χ^2/NDF : 118510359423.2

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 : 1085267.0/31

Left In: 0.003+/-0.000 χ^2/NDF : 286064.1/22

Left: 0.003+/-0.000 χ^2/NDF : 682340.4/47

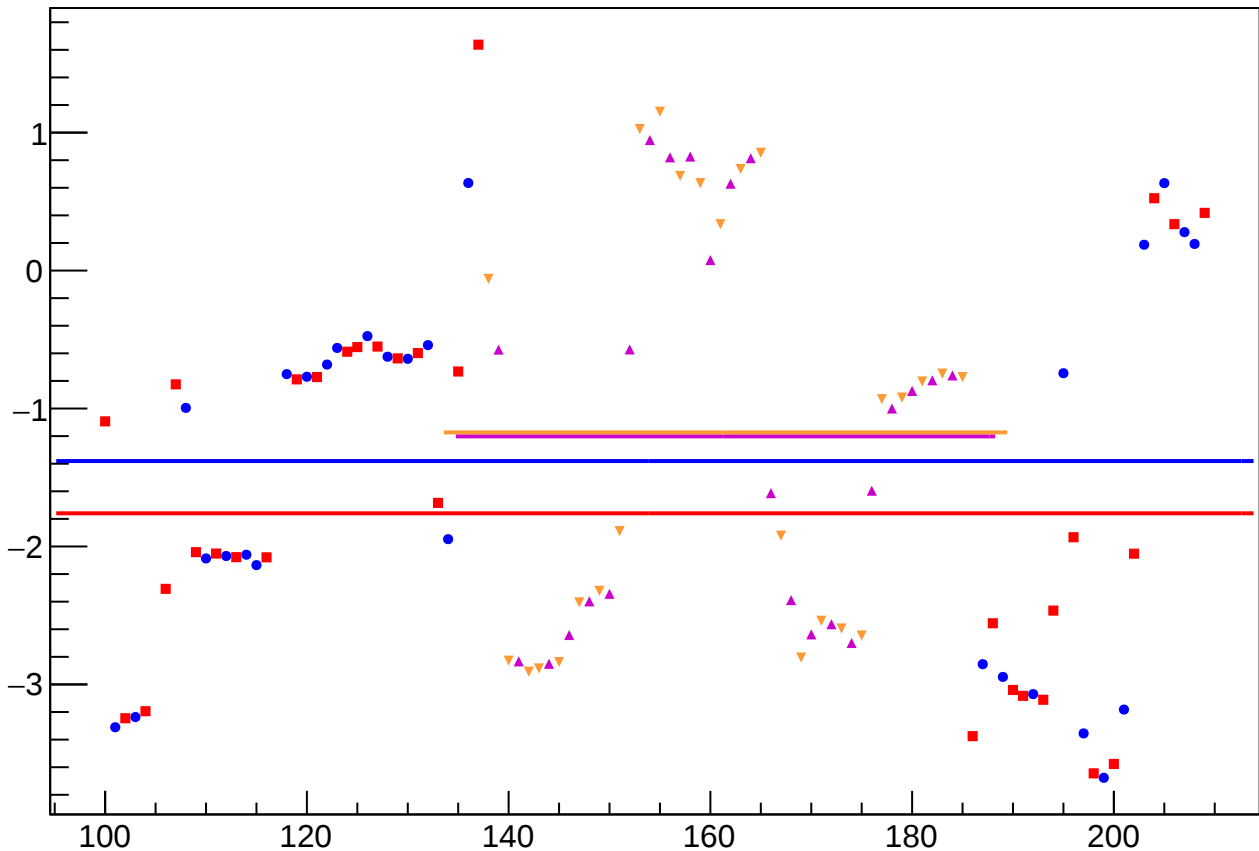
Right: 0.004+/-0.000 χ^2/NDF : 2103449.9/59

In: 0.003+/-0.000 χ^2/NDF : 1379371.2/50

Out: 0.003+/-0.000 χ^2/NDF : 1737463.8/56

All: 0.003+/-0.000 χ^2/NDF : 3119499.4/107

yield_bpm0r03X_mean vs Slug, Sign Corrected



Right In: -1.381+/-0.000 χ^2/NDF : 5776956239.3/27

Left Out: -1.173+/-0.000 χ^2/NDF : 6882684653.2/24

Right Out: -1.760+/-0.000 χ^2/NDF : 5216280731.6/31

Left In: -1.202+/-0.000 χ^2/NDF : 5606782515.9/22

Left: -1.187+/-0.000 χ^2/NDF : 12490828303.3/47

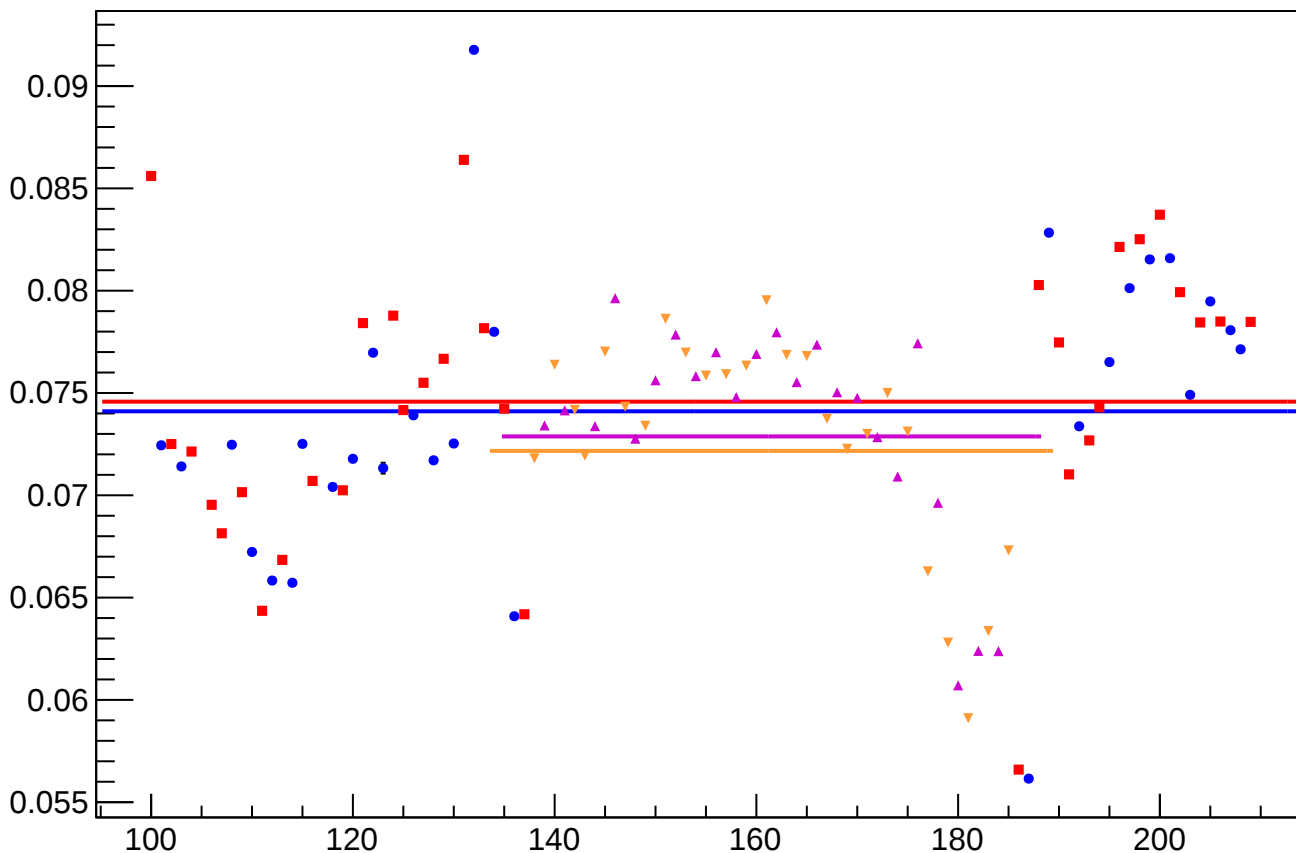
Right: -1.578+/-0.000 χ^2/NDF : 11185691580.1/59

In: -1.282+/-0.000 χ^2/NDF : 11429451319.9/50

Out: -1.435+/-0.000 χ^2/NDF : 12630914062.3/56

All: -1.362+/-0.000 χ^2/NDF : 24131107381.9/100

yield_bpm0r03X_rms vs Slug, Sign Corrected



Right In: 0.074 $\pm$ 0.000 χ^2 /NDF: 191908.6/27

Left Out: 0.072 $\pm$ 0.000 χ^2 /NDF:222263.8/24

Right Out: 0.075 $\pm$ 0.000 χ^2 /NDF: 235251.9/31

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

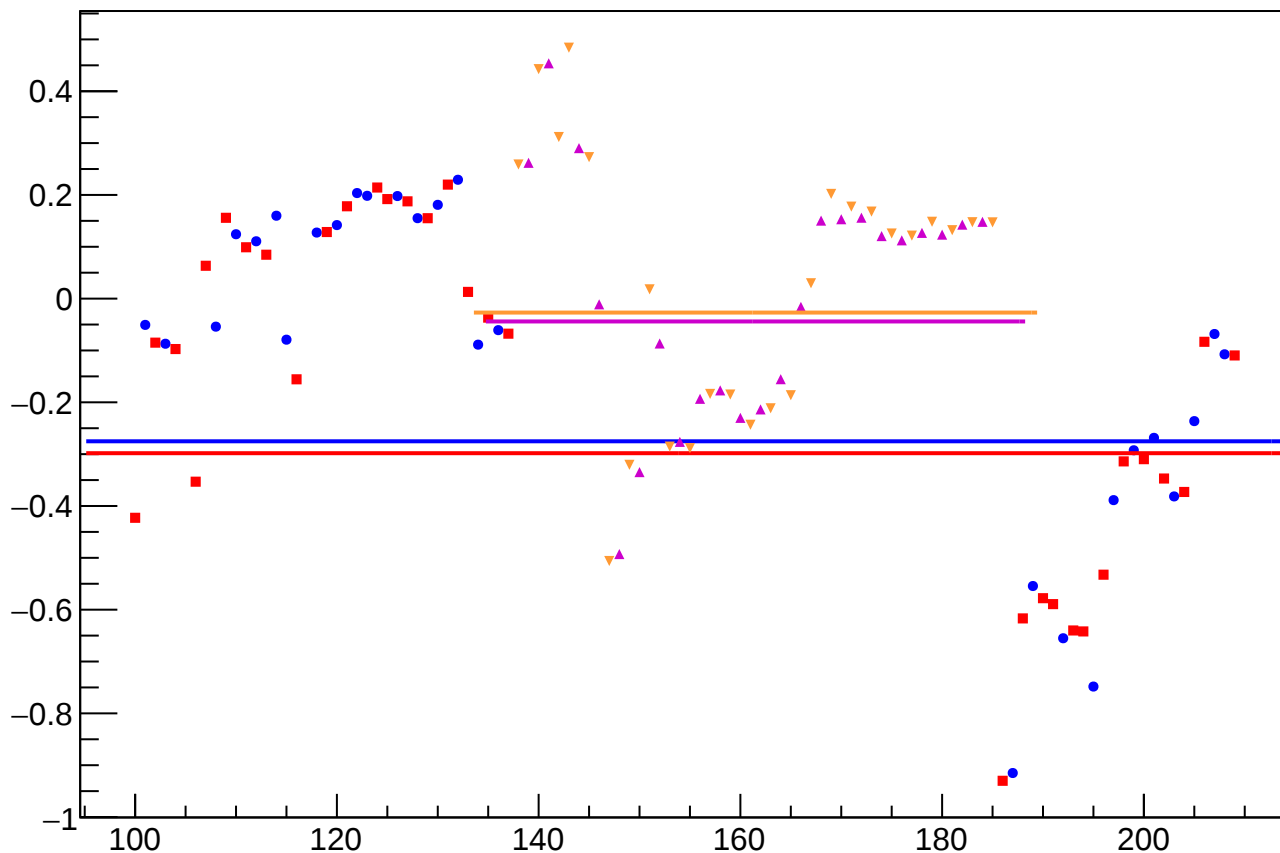
Right: 0.074 $\pm$ 0.000 χ^2 /NDF: 427756.4/59

In: 0.073 $\pm$ 0.000 χ^2 /NDF:379715.8/50

Out: 0.073 $\pm$ 0.000 χ^2 /NDF:475423.4/56

All: 0.073 $\pm$ 0.000 χ^2 /NDF: 855333.0/107

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: -0.298 ± 0.000 $\chi^2/\text{NDF}: 12957392489.2/31$

Left In: -0.044 ± 0.000 $\chi^2/\text{NDF}: 15718556282.1/22$

Left: -0.035 ± 0.000 $\chi^2/\text{NDF}: 36148383394.4/47$

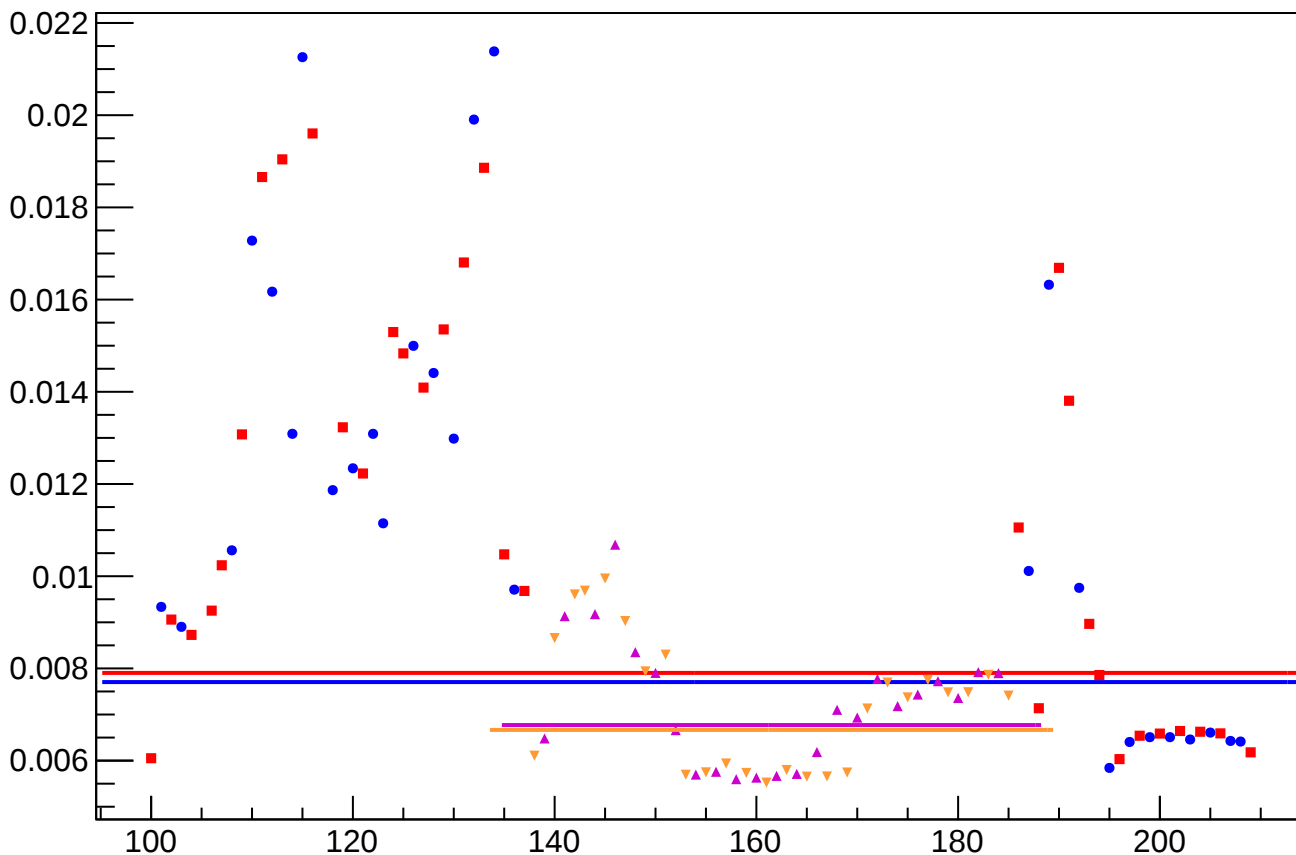
Right: -0.287 ± 0.000 $\chi^2/\text{NDF}: 26783167220.0/59$

In: -0.131 ± 0.000 $\chi^2/\text{NDF}: 36390458662.2/50$

Out: -0.124 ± 0.000 $\chi^2/\text{NDF}: 43256562084.4/56$

All: -0.127 ± 0.000 $\chi^2/\text{NDF}: 79660500528.8/100$

yield_bpm0r03Y_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 2786650.9/27

Left Out: 0.007+/-0.000 χ^2/NDF :1143768.6/24

Right Out: 0.008+/-0.000 χ^2/NDF : 3072003.6/31

Left In: 0.007+/-0.000 χ^2/NDF :934050.3/22

Left: 0.007+/-0.000 χ^2/NDF : 2081836.1/47

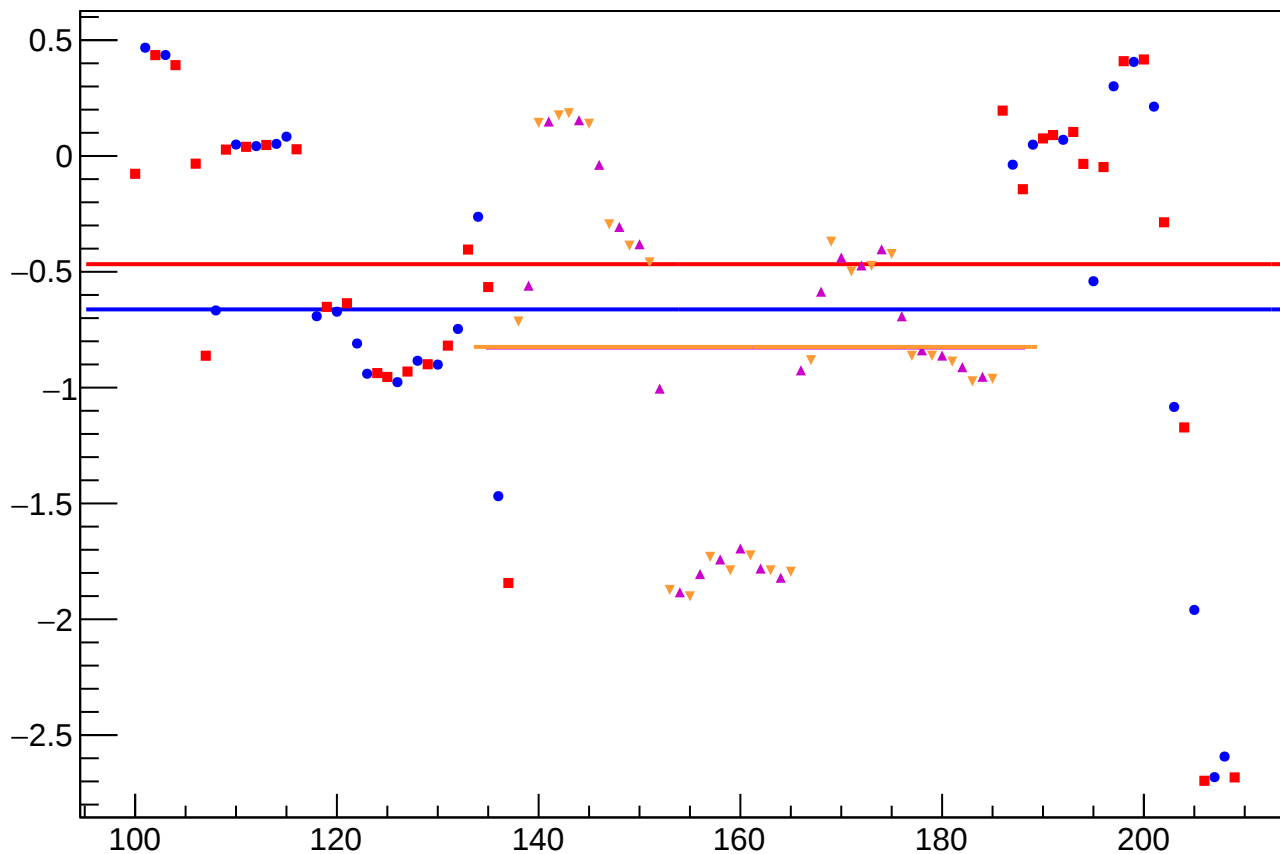
Right: 0.008+/-0.000 χ^2/NDF : 5866875.2/59

In: 0.007+/-0.000 χ^2/NDF :3945146.5/50

Out: 0.007+/-0.000 χ^2/NDF :4628085.7/56

All: 0.007+/-0.000 χ^2/NDF : 8573332.1/107

yield_bpm0r05X_mean vs Slug, Sign Corrected



Right In: -0.662±/0.000

χ^2/NDF : 1460755922.2/27

Left: -0.826±/0.000

χ^2/NDF : 2025270716.0/47

Left Out: -0.824±/0.000

χ^2/NDF : 1103610806.5/24

Right: -0.560±/0.000

χ^2/NDF : 2963597468.5/59

Right Out: -0.467±/0.000

χ^2/NDF : 1468757367.8/31

In: -0.758±/0.000

χ^2/NDF : 2409295274.6/50

Out: -0.673±/0.000

χ^2/NDF : 2710205573.9/56

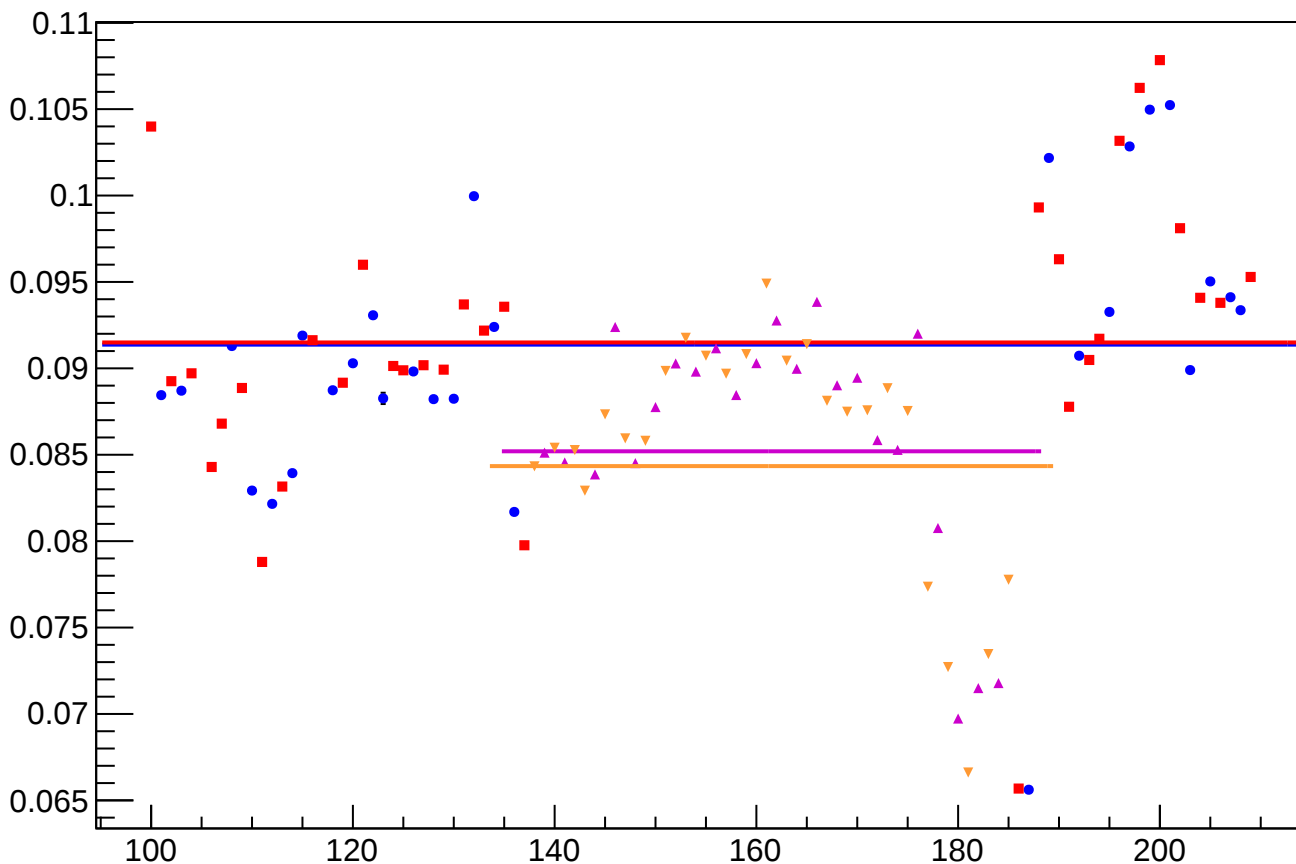
Left In: -0.827±/0.000

χ^2/NDF : 921651117.3/22

All: -0.714±/0.000

χ^2/NDF : 5134652185.3/1

yield_bpm0r05X_rms vs Slug, Sign Corrected



Right In: 0.091 $\pm$ 0.000 χ^2 /NDF: 191261.7/27

Left Out: 0.084 $\pm$ 0.000 χ^2 /NDF:288312.6/24

Right Out: 0.091 $\pm$ 0.000 χ^2 /NDF: 283929.9/31

Left In: 0.085 $\pm$ 0.000 χ^2 /NDF:238313.9/22

Left: 0.085 $\pm$ 0.000 χ^2 /NDF: 528427.1/47

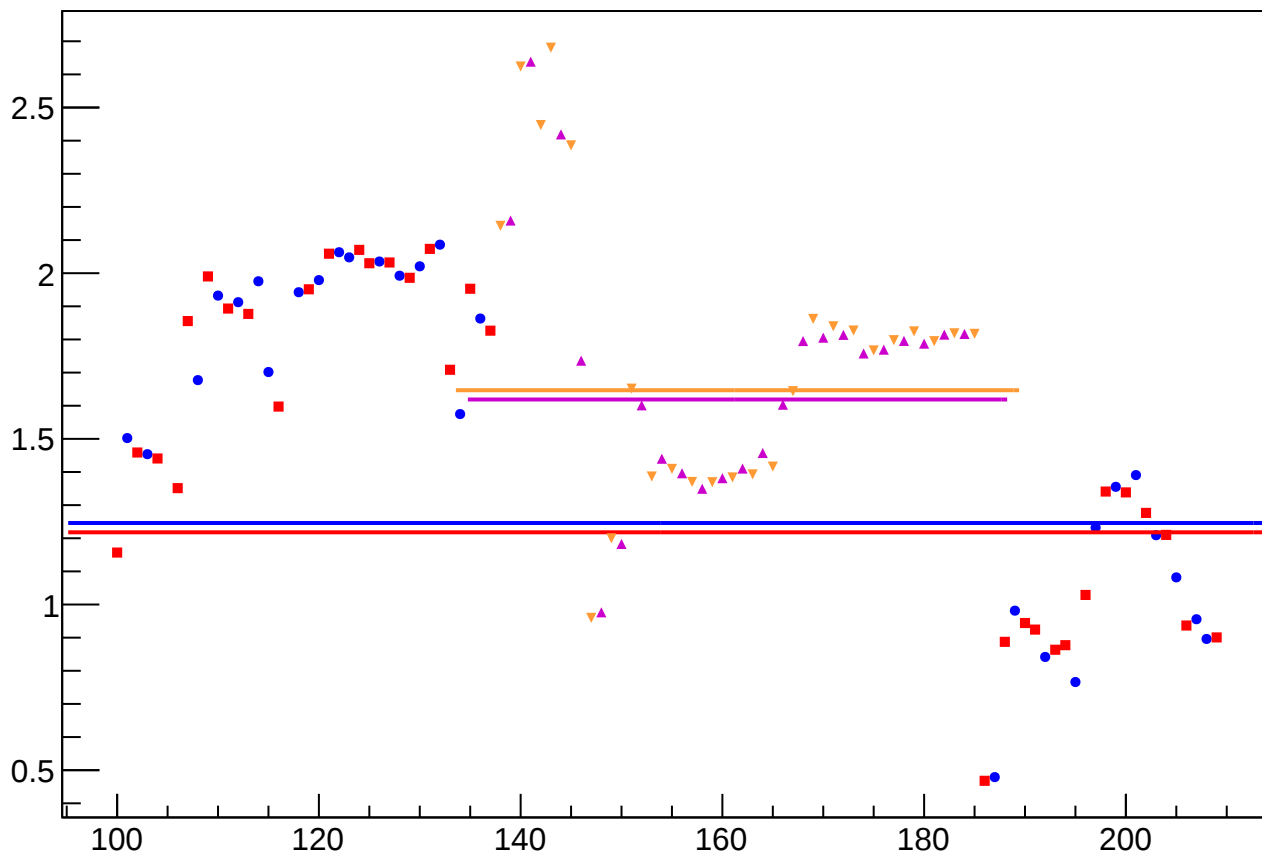
Right: 0.091 $\pm$ 0.000 χ^2 /NDF: 475219.8/59

In: 0.088 $\pm$ 0.000 χ^2 /NDF:505182.2/50

Out: 0.087 $\pm$ 0.000 χ^2 /NDF:682913.6/56

All: 0.088 $\pm$ 0.000 χ^2 /NDF: 1188867.1/107

yield_bpm0r05Y_mean vs Slug, Sign Corrected



Right In: 1.246 $\pm$ 0.000 χ^2 /NDF: 15573971432.7/27

Left Out: 1.647 $\pm$ 0.000 χ^2 /NDF: 26535241545.7/24

Right Out: 1.218 $\pm$ 0.000 χ^2 /NDF: 14518349328.2/31

Left In: 1.619 $\pm$ 0.000 χ^2 /NDF: 20618198188.1/22

Left: 1.633 $\pm$ 0.000 χ^2 /NDF: 47231460201.8/47

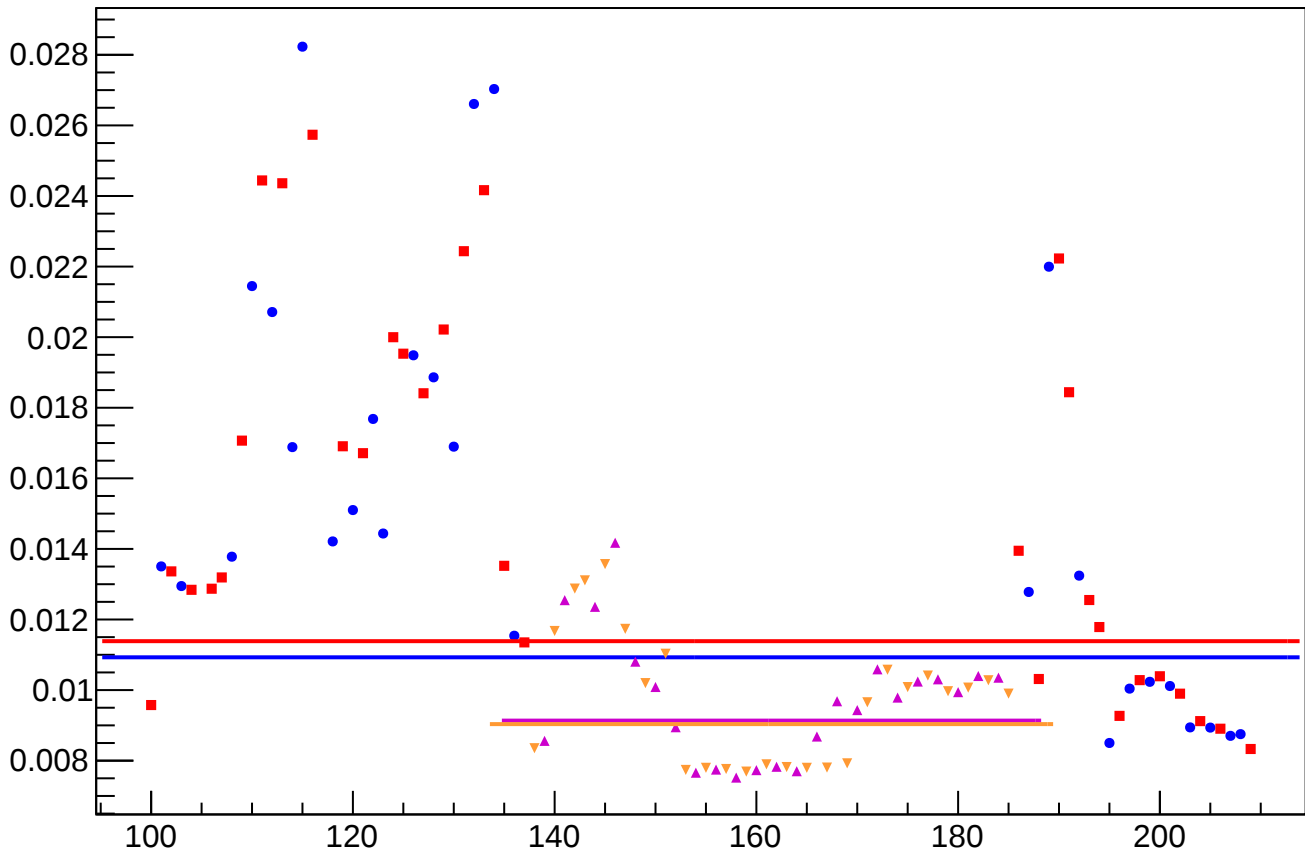
Right: 1.232 $\pm$ 0.000 χ^2 /NDF: 30133626708.6/59

In: 1.487 $\pm$ 0.000 χ^2 /NDF: 45595489939.0/50

Out: 1.504 $\pm$ 0.000 χ^2 /NDF: 53761942112.4/56

All: 1.496 $\pm$ 0.000 χ^2 /NDF: 99403222937.7/100

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: 0.011+/-0.000 χ^2/NDF : 2524472.8/31

Left In: 0.009+/-0.000 χ^2/NDF :878356.2/22

Left: 0.009+/-0.000 χ^2/NDF : 1923188.0/47

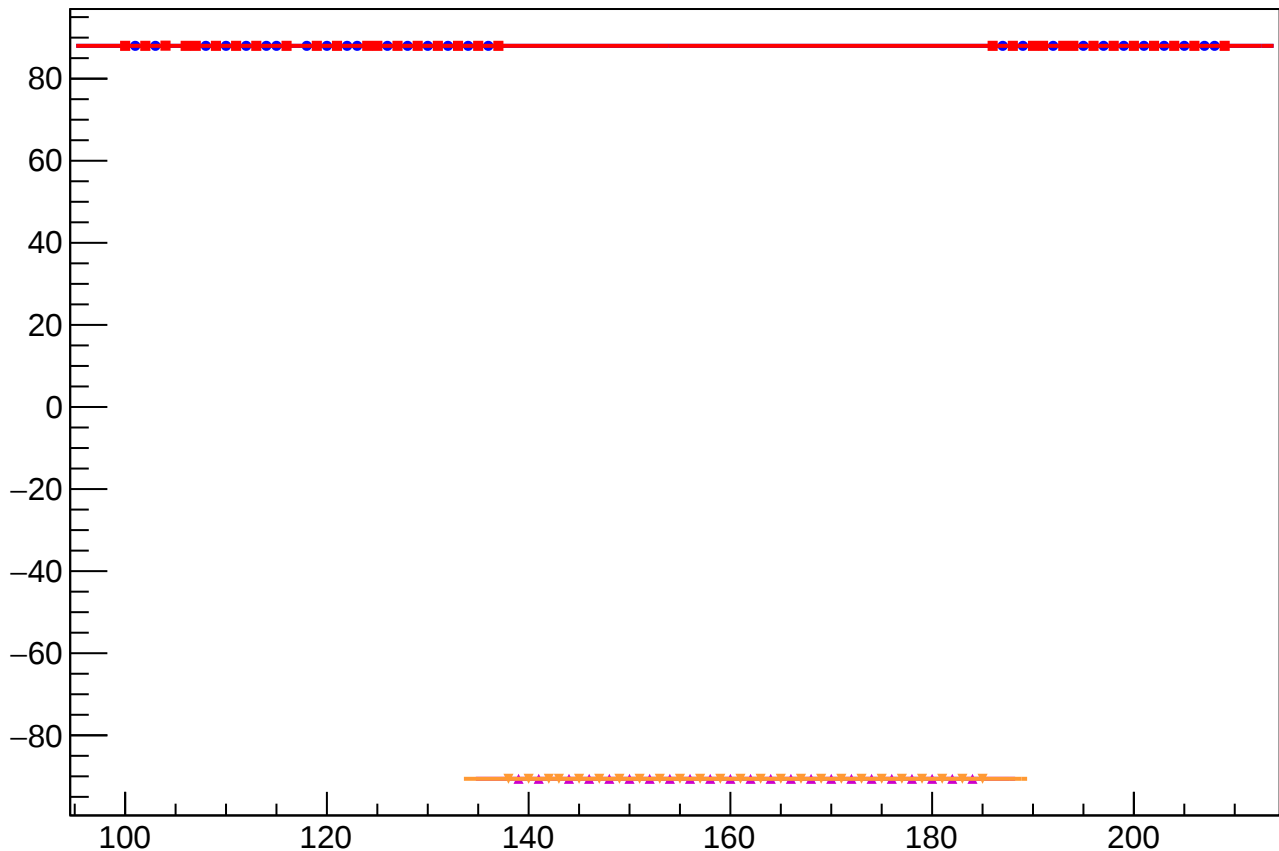
Right: 0.011+/-0.000 χ^2/NDF : 4789342.3/59

In: 0.010+/-0.000 χ^2/NDF :3557026.4/50

Out: 0.010+/-0.000 χ^2/NDF :4330788.7/56

All: 0.010+/-0.000 χ^2/NDF : 7888486.2/107

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 : 80817888584585162727960346624.0/31

Left In: -90.599+/-0.000 χ^2/NDF : 7134230.8/22

Left: -90.599+/-0.000 χ^2/NDF : 11903242.1/47

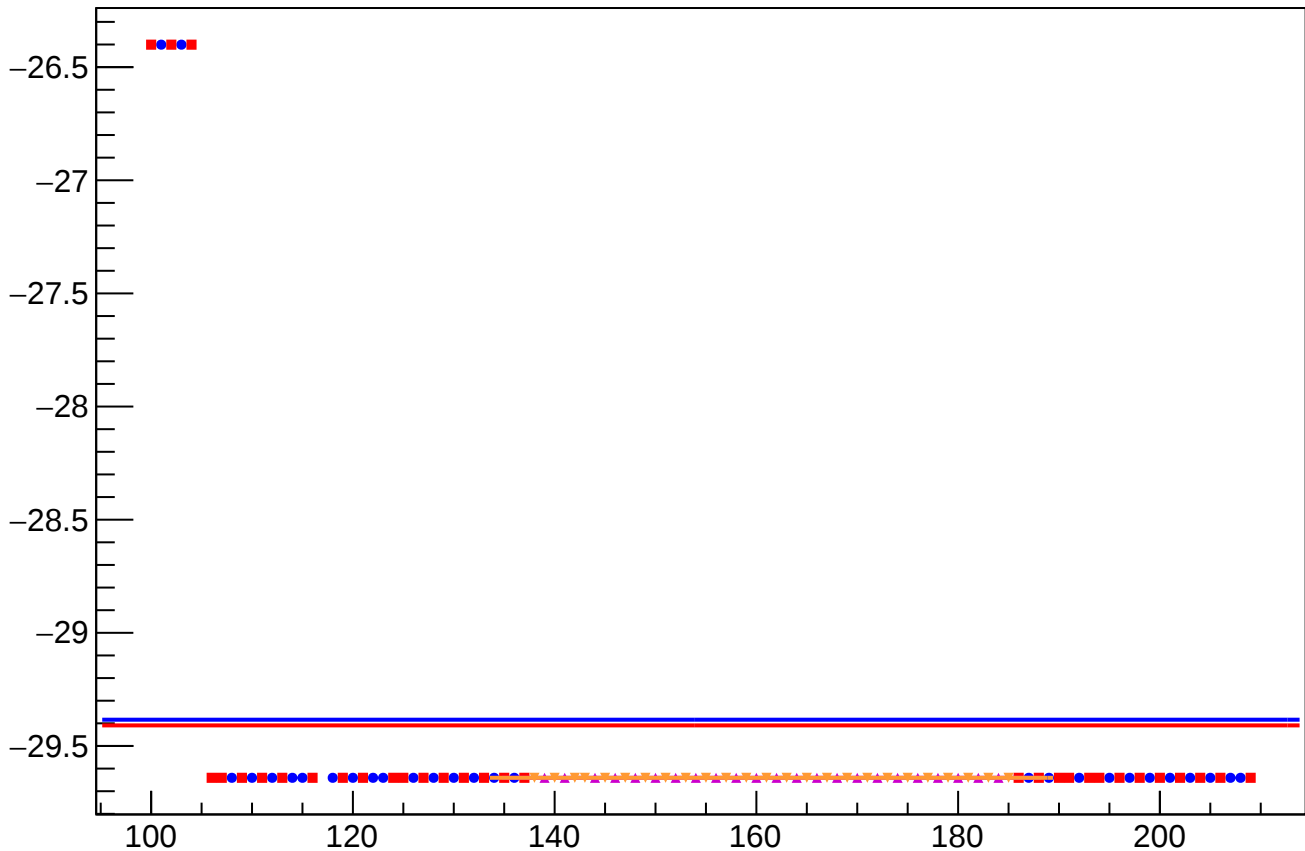
Right: 88.001+/-0.000 χ^2/NDF : 8207241625252083

In: -9.645+/-0.000 χ^2/NDF : 259674058271658751

Out: -8.437+/-0.000 χ^2/NDF : 27954647165621121

All: -9.019+/-0.000 χ^2/NDF : 5392453614382

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

Right: -29.397+/-0.000 χ^2/NDF : 227173191362466

Left Out: -29.641+/-0.000

χ^2/NDF : 530354.3/24

In: -29.524+/-0.000 χ^2/NDF : 11942210367123124

Right Out: -29.409+/-0.000

χ^2/NDF : 1130687893530486346841963504861184.0/31

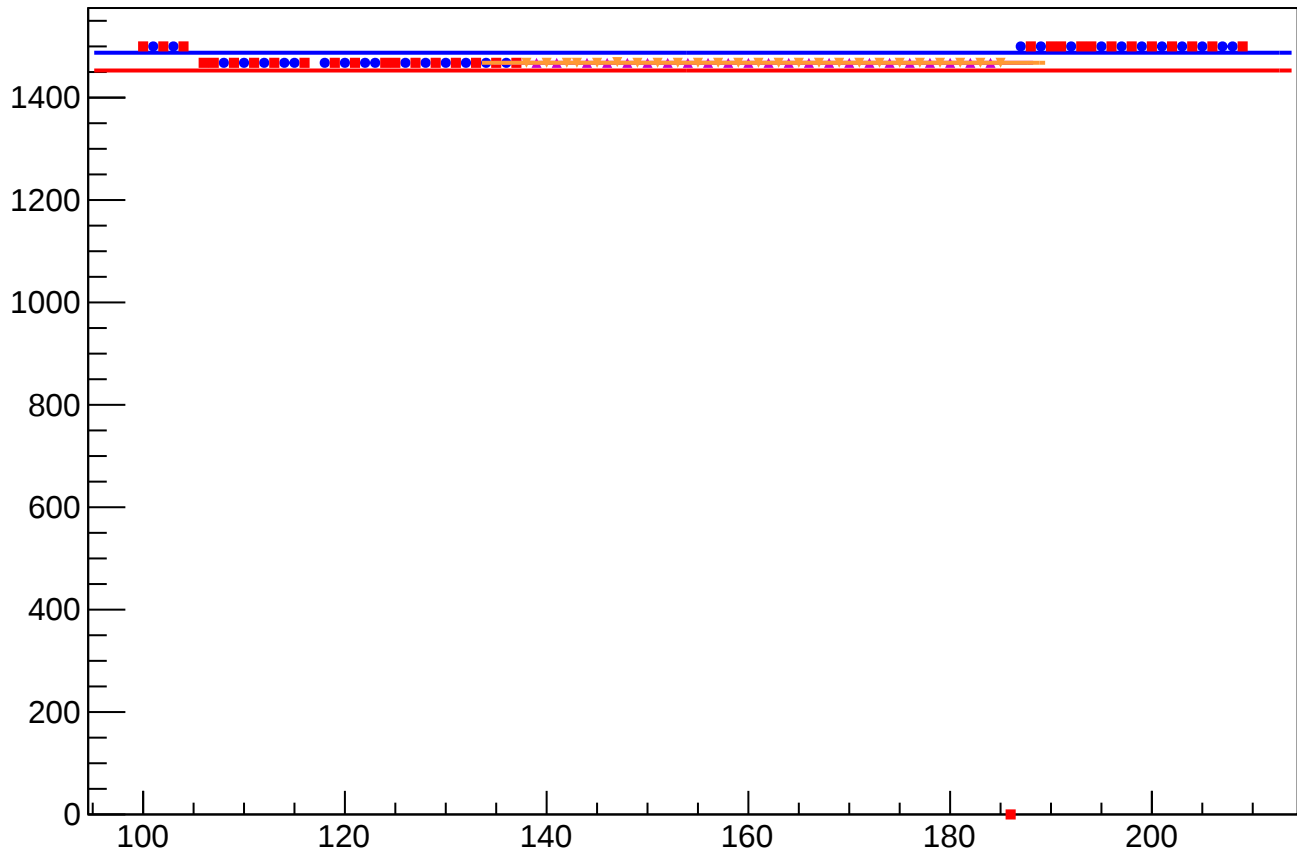
Out: -29.534+/-0.000 χ^2/NDF : 1177683134693850

Left In: -29.641+/-0.000

χ^2/NDF : 382603.8/22

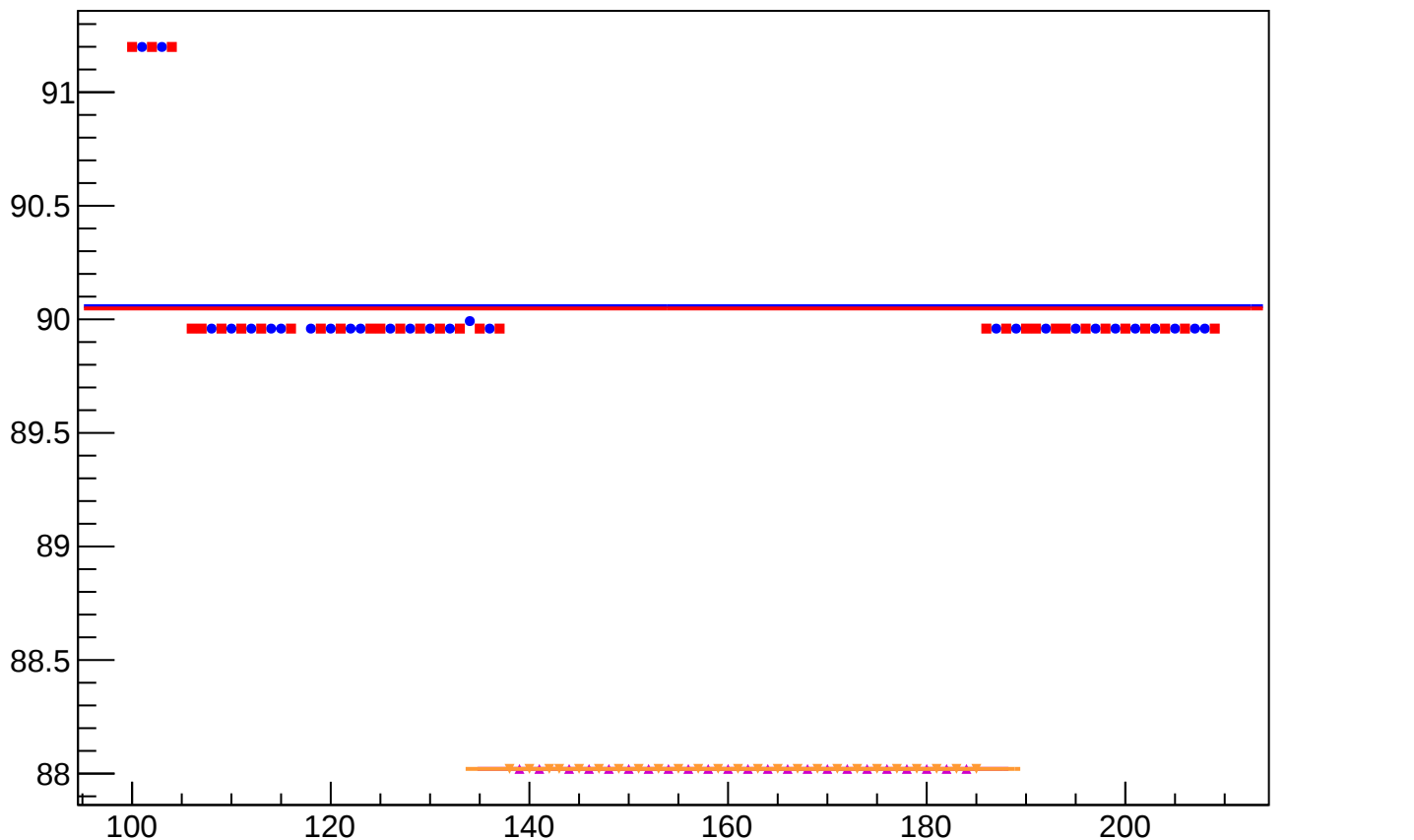
All: -29.529+/-0.000 χ^2/NDF : 237206931360

epics_psub_pl_pos_mean vs Slug, Sign Corrected



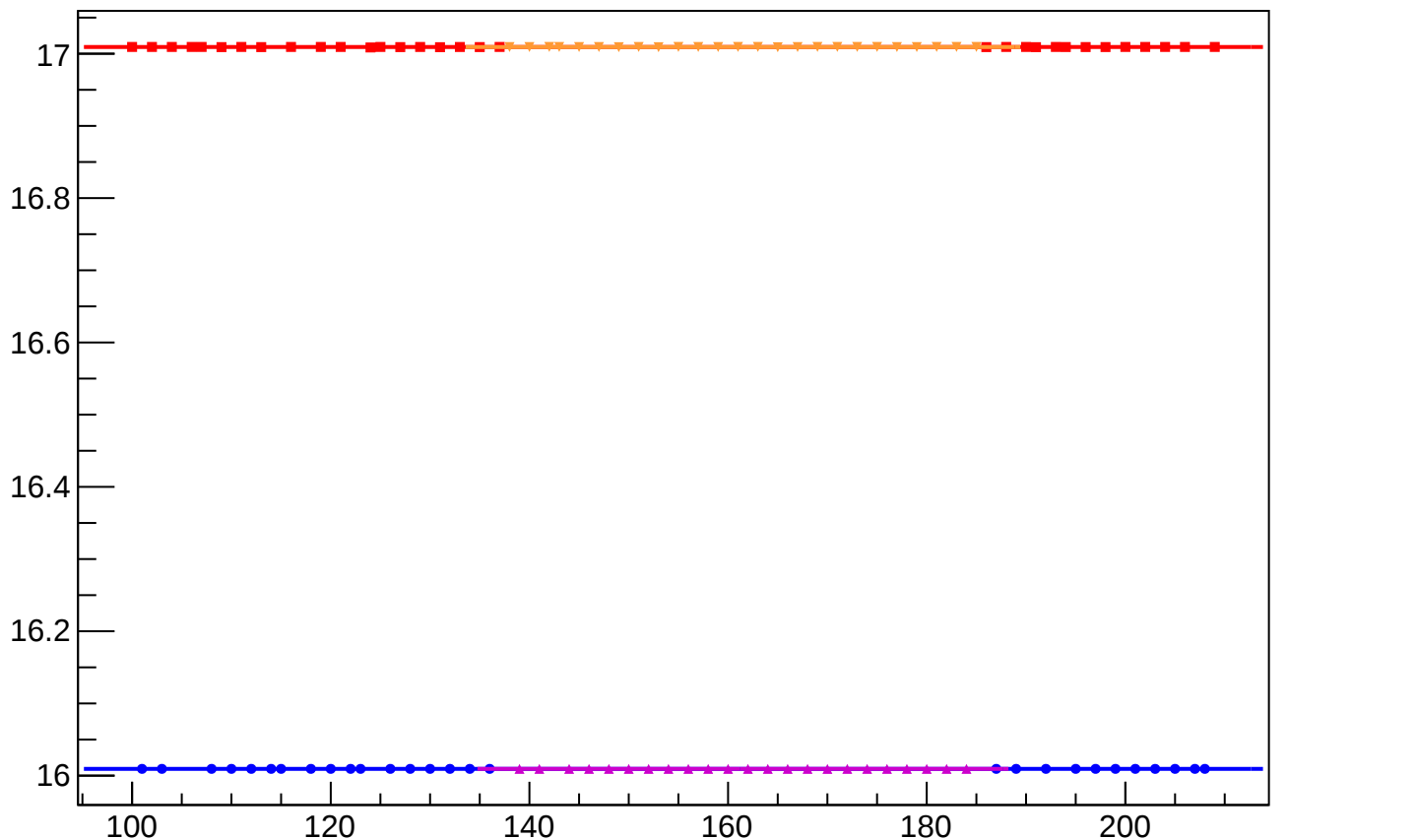
Right In: 1487.679+/-0.000	χ^2/NDF : 361452879704035848600871601530994688.0/27	Left: 1468.022+/-0.000	χ^2/NDF : 130807817753460
Left Out: 1468.048+/-0.000	χ^2/NDF : 127949199501977668488138456039424.0/24	Right: 1469.574+/-0.000	χ^2/NDF : 83824804886507
Right Out: 1452.964+/-0.000	χ^2/NDF : 82527523591937415827700183546145538048.0/31	In: 1476.916+/-0.000	χ^2/NDF : 6769007545310824
Left In: 1467.994+/-0.000	χ^2/NDF : 144497772795444989723550941184.0/22	Out: 1461.109+/-0.000	χ^2/NDF : 827270461546879
	All: 1468.731+/-0.000	χ^2/NDF : 8382900896	

epics_Phi_FGs_mean vs Slug, Sign Corrected



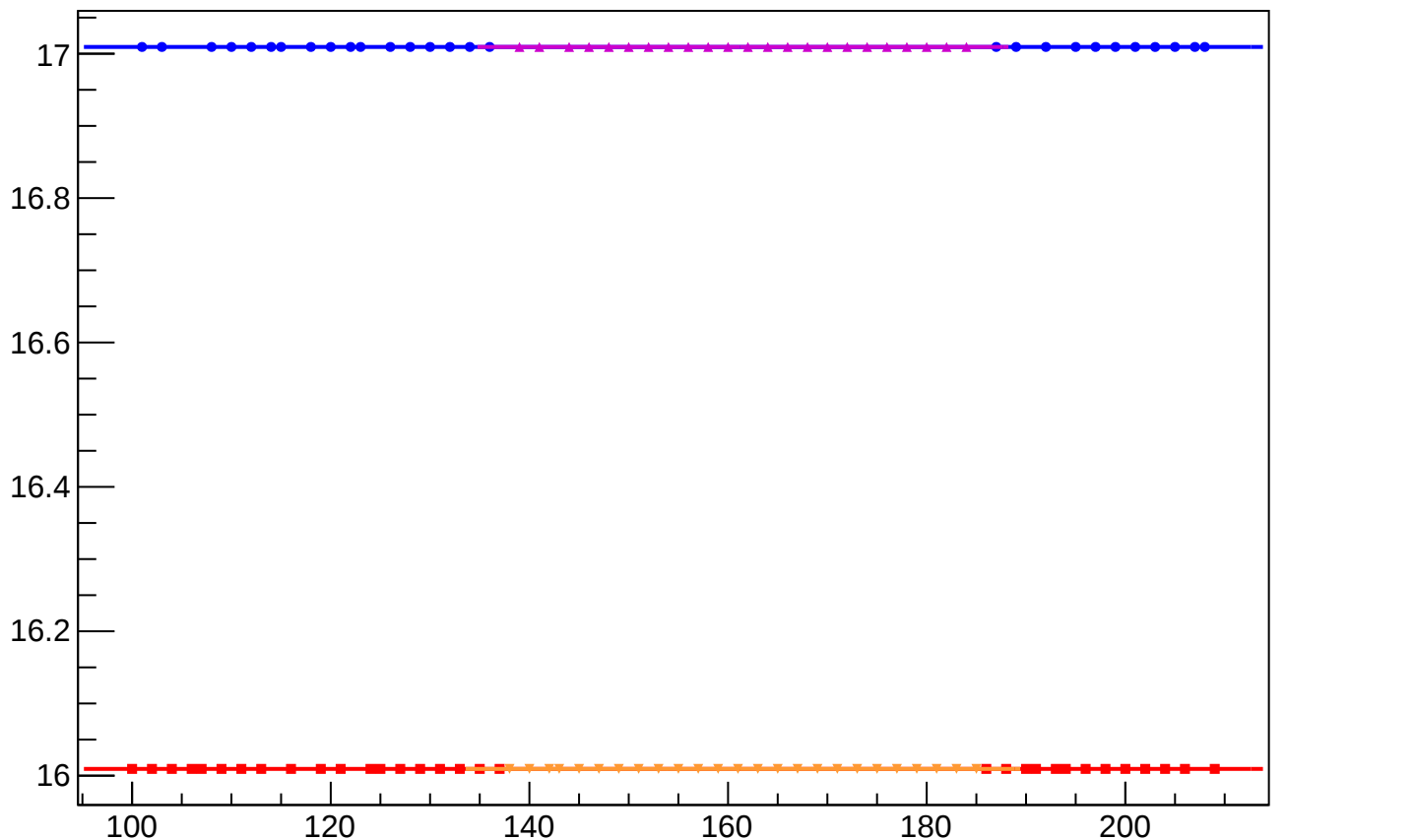
Right In: 90.058 $\pm$ 0.000 χ^2 /NDF: 166944542206349386203750406815744.0/27
 Left Out: 88.021 $\pm$ 0.000 χ^2 /NDF: 5679798.5/24
 Right Out: 90.048 $\pm$ 0.000 χ^2 /NDF: 165613635982790924611575831592960.0/31
 Left In: 88.021 $\pm$ 0.000 χ^2 /NDF: 6257169.0/22
 Left: 88.021 $\pm$ 0.000 χ^2 /NDF: 13134723.4/47
 Right: 90.053 $\pm$ 0.000 χ^2 /NDF: 3326375109013870
 In: 88.944 $\pm$ 0.000 χ^2 /NDF: 354593683408562436
 Out: 88.953 $\pm$ 0.000 χ^2 /NDF: 37671398582885217
 All: 88.949 $\pm$ 0.000 χ^2 /NDF: 7313218358021

epics_IGL1I00DI24_24Ms_mean vs Slug, Sign Corrected



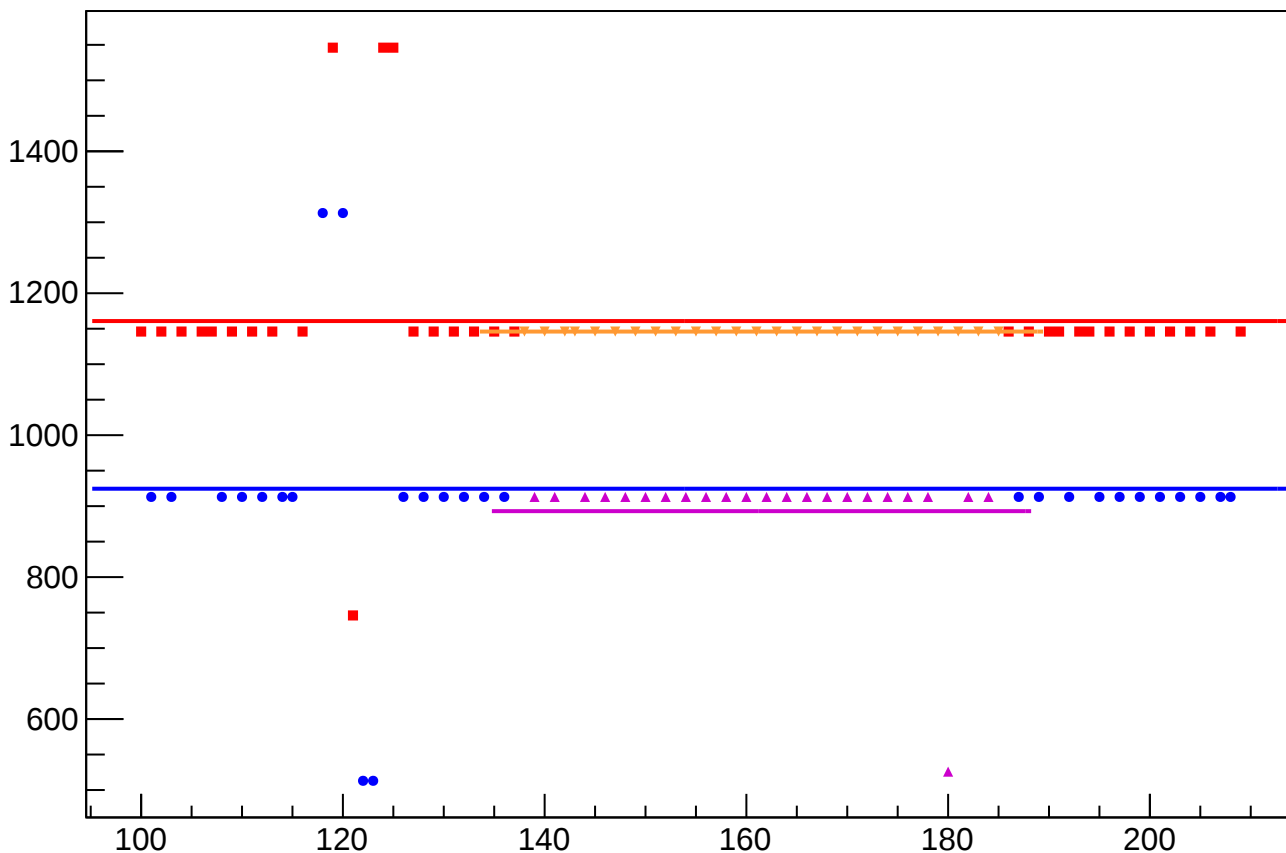
Right In: 16.009 $\pm$ 0.000 χ^2 /NDF: 113860715026345430614016.0/27
 Left Out: 17.009 $\pm$ 0.000 χ^2 /NDF: 26194929080144976634970112.0/24
 Right Out: 17.009 $\pm$ 0.000 χ^2 /NDF: 19038616444723585762721792.0/31
 Left In: 16.009 $\pm$ 0.000 χ^2 /NDF: 127920993667935400624128.0/22
 All: 16.525 $\pm$ 0.000 χ^2 /NDF: 1610895622806

epics_IGL1I00OD16_16s_mean vs Slug, Sign Corrected



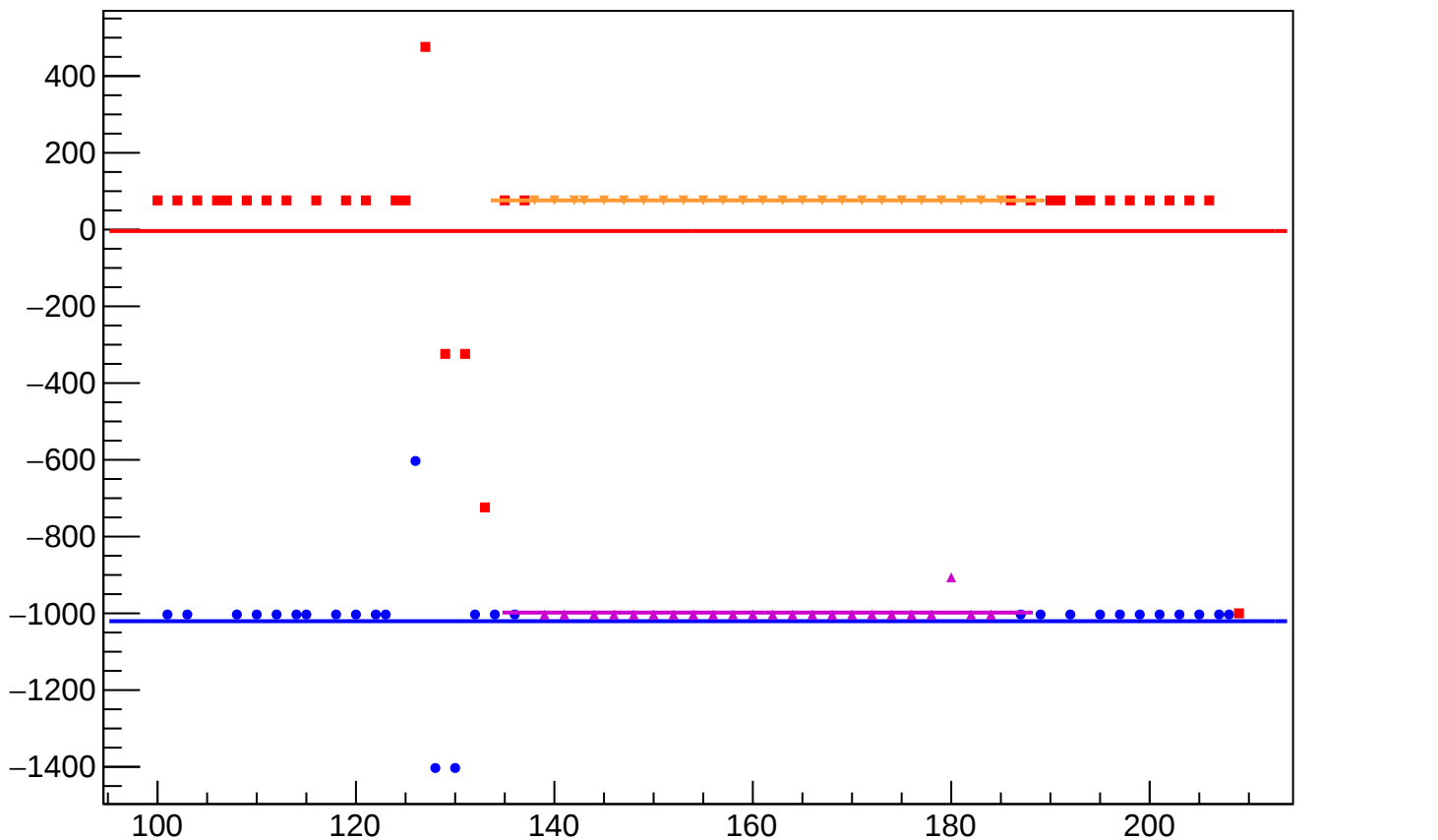
Right In: 17.009+/-0.000	χ^2/NDF : 113860715070937223921664.0/27	Left: 16.491+/-0.000	χ^2/NDF : 90683349233974458
Left Out: 16.009+/-0.000	χ^2/NDF : 61253.5/24	Right: 16.484+/-0.000	χ^2/NDF : 7661900098797983
Right Out: 16.009+/-0.000	χ^2/NDF : 298706.9/31	In: 17.009+/-0.000	χ^2/NDF : 228949953529118241
Left In: 17.009+/-0.000	χ^2/NDF : 114986101427233622065152.0/22	Out: 16.009+/-0.000	χ^2/NDF : 553969.7/56
		All: 16.488+/-0.000	χ^2/NDF : 1673129349601

epics_RTPAPOSUCNTs_mean vs Slug, Sign Corrected



Right In: 924.546 $\pm$ 0.000 χ^2/NDF : 21082664331199014519694311233301774336.0/27
 Left Out: 1146.011 $\pm$ 0.000 χ^2/NDF : 8056834670270133849999540224.0/24
 Right Out: 1160.797 $\pm$ 0.000 χ^2/NDF : 21725831242412063752360104937287319552.0/31
 Left In: 892.950 $\pm$ 0.000 χ^2/NDF : 13213852485930520518972295012897783808.0/22
 All: 1034.421 $\pm$ 0.000 χ^2/NDF : 15958580999

epics_RTPAPOSVCNTs_mean vs Slug, Sign Corrected



Left: -445.169+/-0.000 χ^2/NDF : 106713327806479
 Right In: -1020.450+/-0.000 χ^2/NDF : 22745673140214995212111968669496508416.0/27
 Left Out: 76.011+/-0.000 χ^2/NDF : 11479003589933272170007363584.0/24
 Right Out: -3.780+/-0.000 χ^2/NDF : 123539576063500561706834042267426095104.0/31
 In: -1008.165+/-0.000 χ^2/NDF : 239826251990202
 Out: 39.305+/-0.000 χ^2/NDF : 12911899653515346
 Left In: -997.979+/-0.000 χ^2/NDF : 825858066518991041870194619245920256.0/22
 All: -465.750+/-0.000 χ^2/NDF : 20195156649