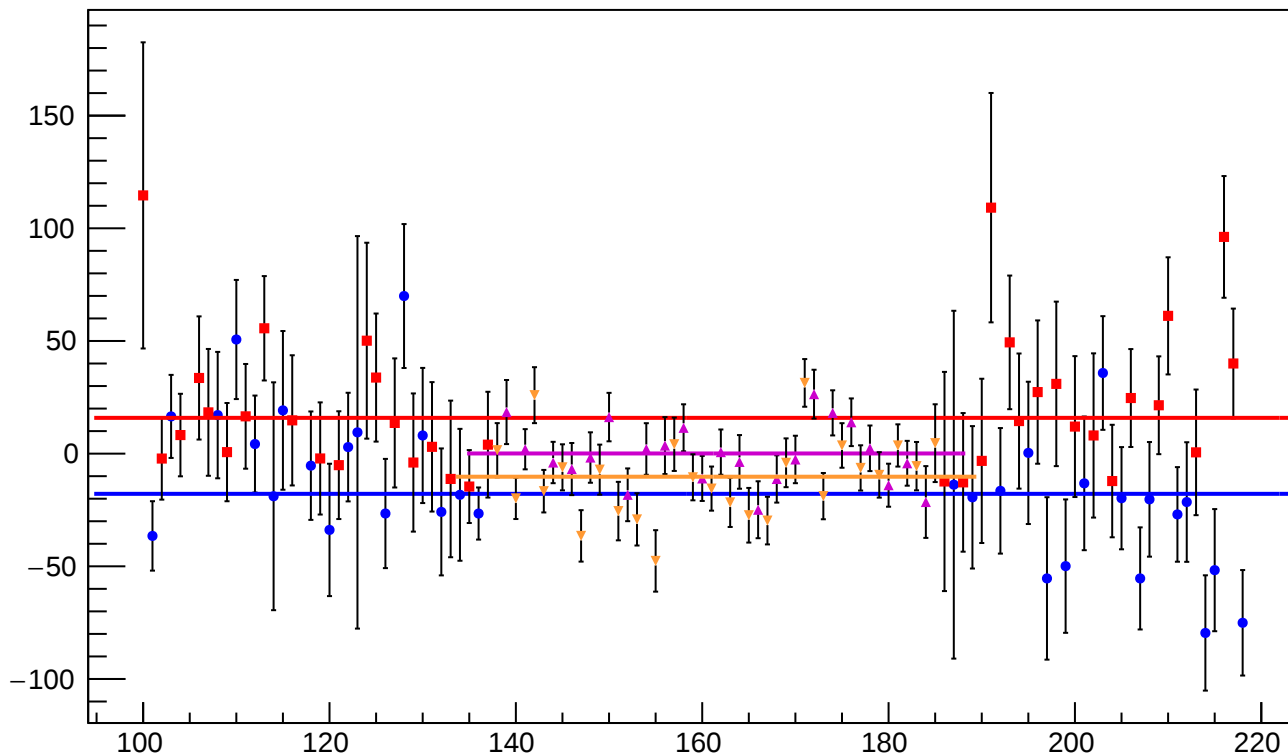


diff_bpm4aX_mean vs Slug, Sign Corrected



Right In: -17.835 ± 4.320

$\chi^2/\text{NDF}: 49.3/32$

Left Out: -10.238 ± 2.170

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

Right Out: 15.882 ± 4.429

$\chi^2/\text{NDF}: 35.6/35$

Left In: 0.080 ± 2.251

$\chi^2/\text{NDF}: 29.9/22$

Left: -5.266 ± 1.562

$\chi^2/\text{NDF}: 98.9/47$

Right: -1.399 ± 3.093

$\chi^2/\text{NDF}: 114.6/68$

In: -3.744 ± 1.996

$\chi^2/\text{NDF}: 92.7/55$

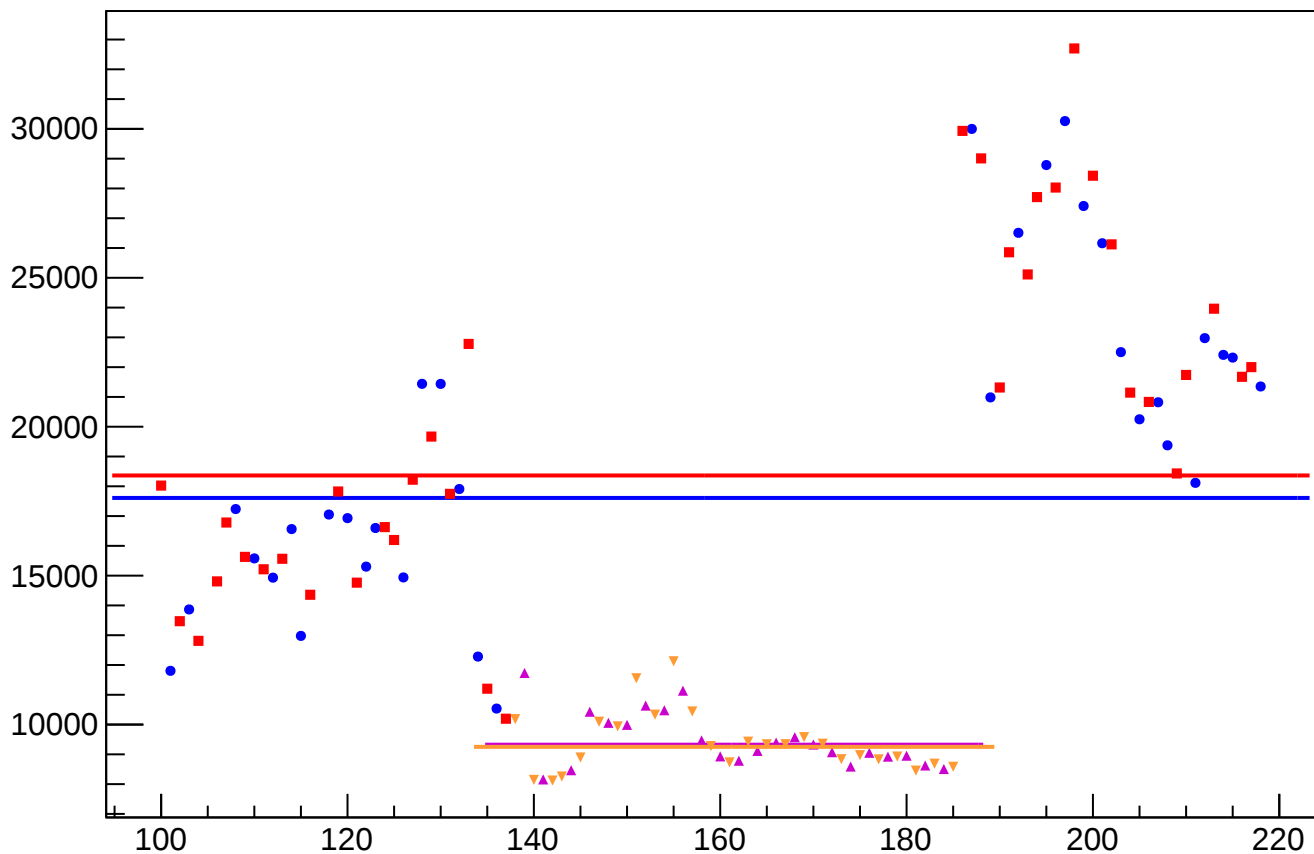
Out: -5.182 ± 1.949

$\chi^2/\text{NDF}: 121.8/60$

All: -4.480 ± 1.394

$\chi^2/\text{NDF}: 214.8/116$

diff_bpm4aX_rms vs Slug, Sign Corrected



Right In: 17609.230 $\pm$ 3.055 χ^2 /NDF: 2944988.0/32

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

Right Out: 18363.097 $\pm$ 3.132 χ^2 /NDF: 2973944.9/35

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

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

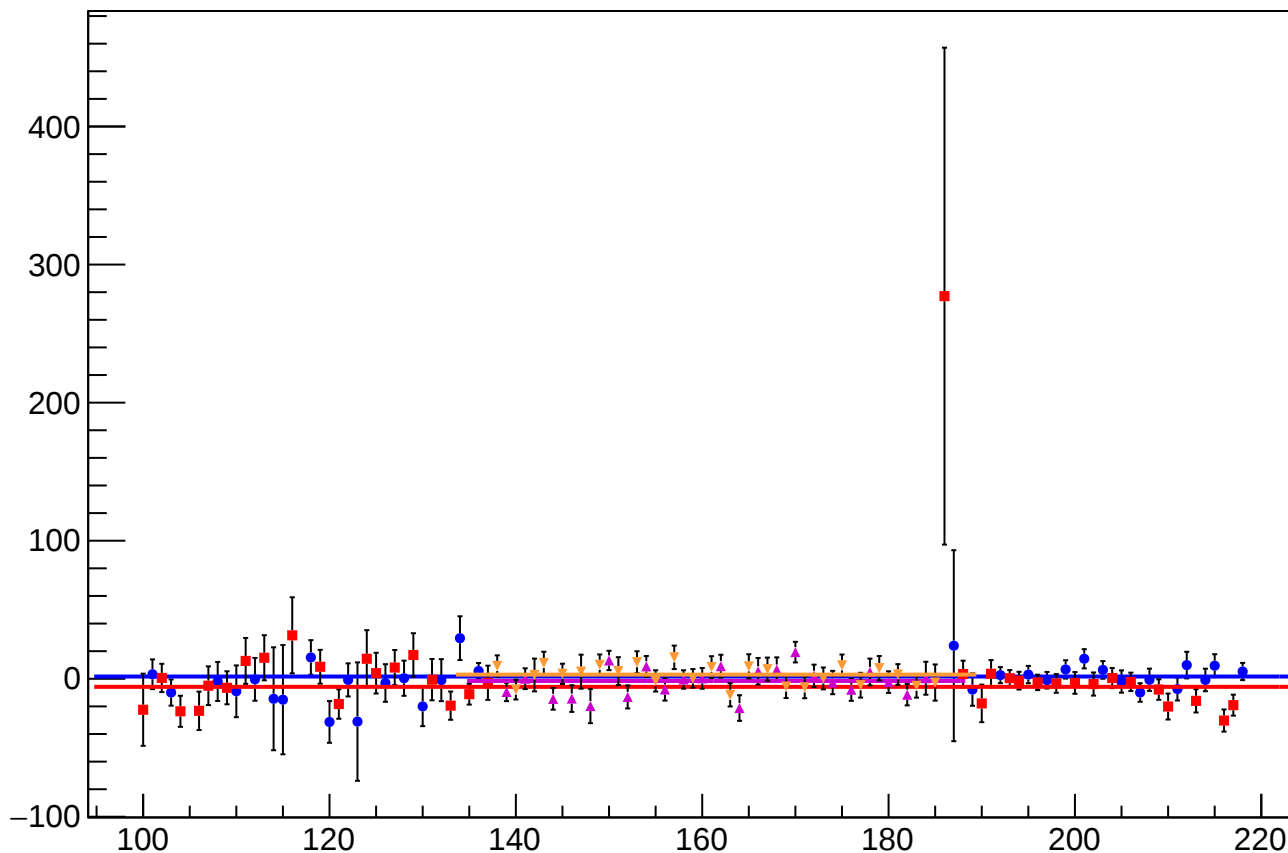
Right: 17976.710 $\pm$ 2.187 χ^2 /NDF: 5948625.4/68

In: 11092.764 $\pm$ 1.411 χ^2 /NDF:9007471.0/55

Out: 11015.621 $\pm$ 1.378 χ^2 /NDF:10130402.4/60

All: 11053.273 $\pm$ 0.986 χ^2 /NDF: 19139402.9

diff_bpm4aY_mean vs Slug, Sign Corrected



Right In: 1.634 ± 1.588 $\chi^2/\text{NDF}: 27.0/32$

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

Right Out: -5.845 ± 1.587 $\chi^2/\text{NDF}: 44.1/35$

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

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

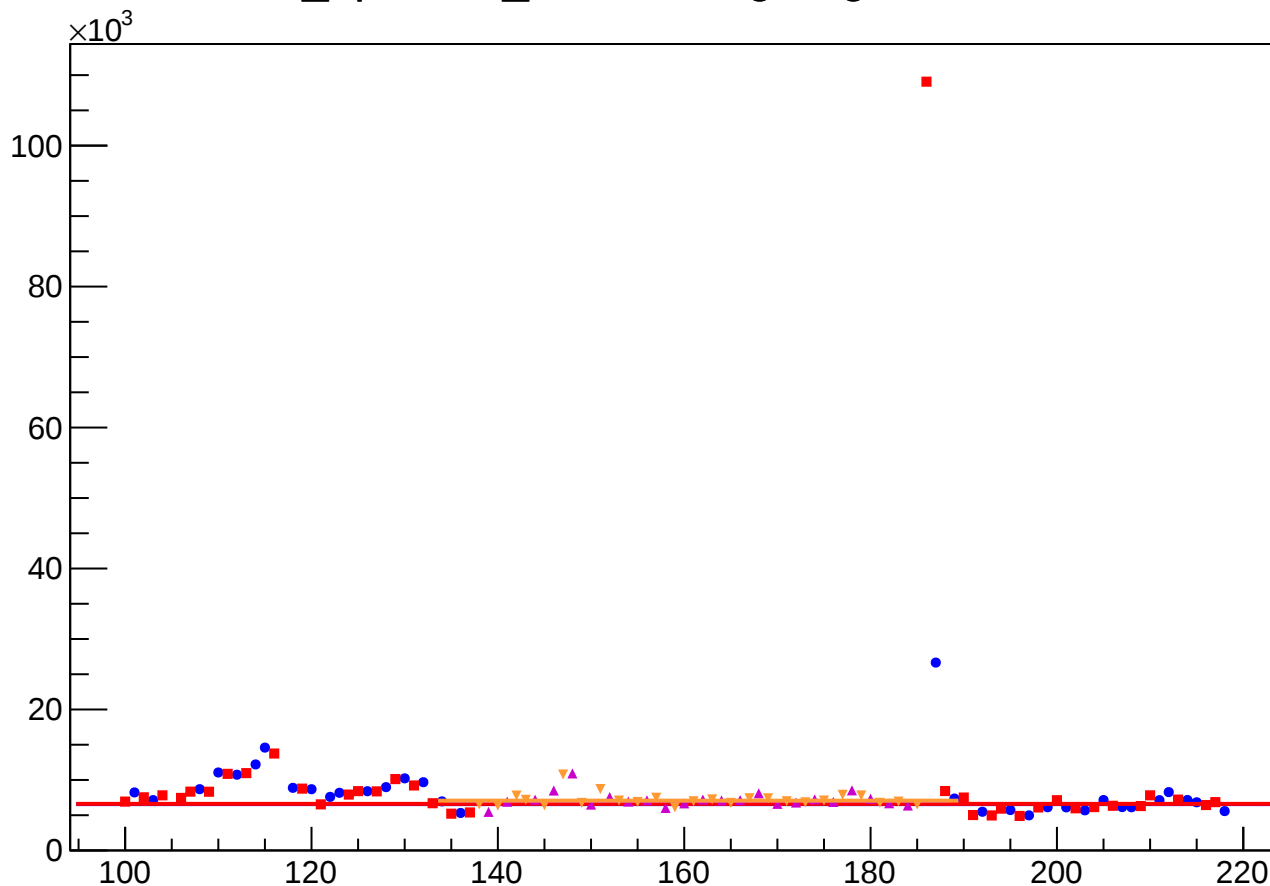
Right: -2.107 ± 1.122 $\chi^2/\text{NDF}: 82.2/68$

In: 0.135 ± 1.161 $\chi^2/\text{NDF}: 64.4/55$

Out: -1.610 ± 1.147 $\chi^2/\text{NDF}: 77.6/60$

All: -0.748 ± 0.816 $\chi^2/\text{NDF}: 143.1/116$

diff_bpm4aY_rms vs Slug, Sign Corrected



Right In: 6575.810 $\pm$ 1.123 χ^2/NDF : 1665929.6/32

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

Right Out: 6609.266 $\pm$ 1.122 χ^2/NDF : 2154251.2/35

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

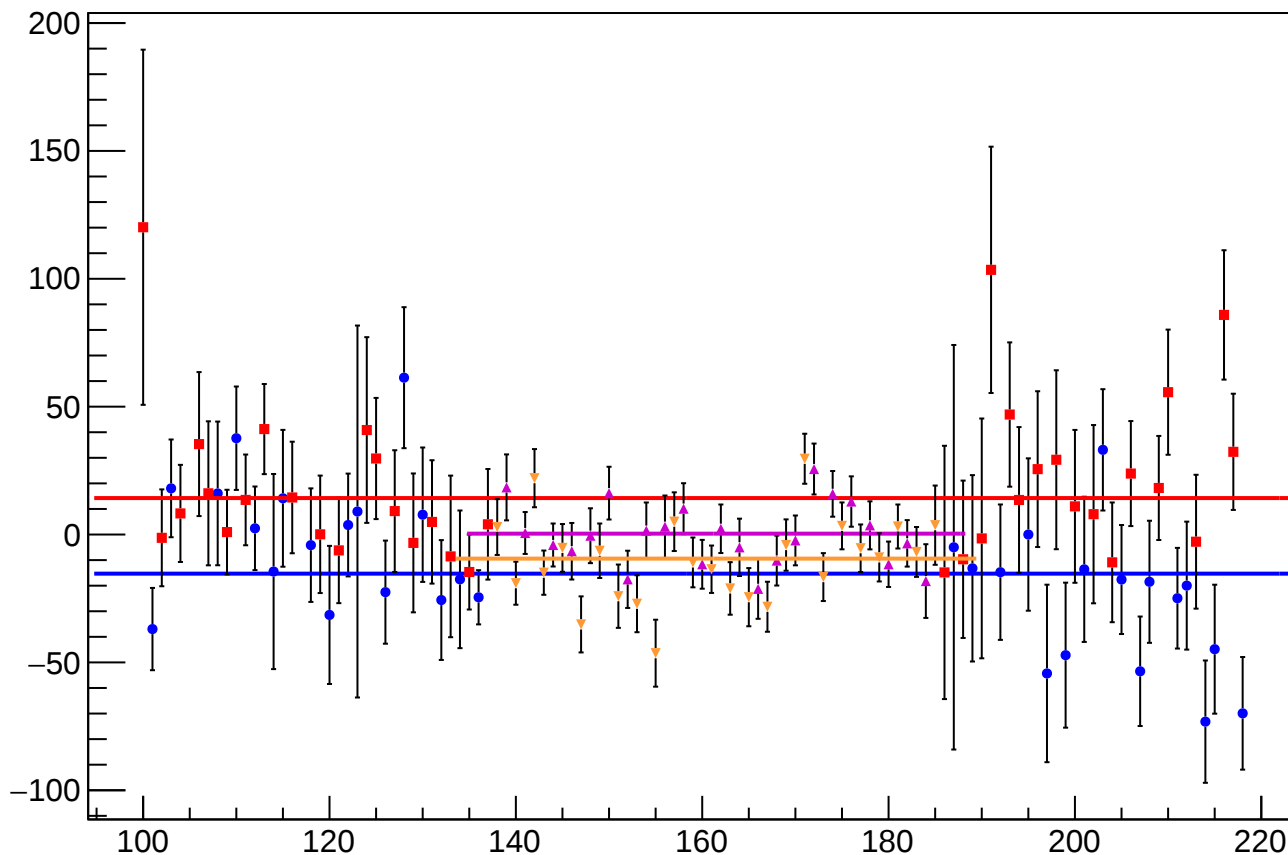
Right: 6592.544 $\pm$ 0.794 χ^2/NDF : 3820625.1/68

In: 6779.874 $\pm$ 0.821 χ^2/NDF : 2262291.2/55

Out: 6826.553 $\pm$ 0.811 χ^2/NDF : 2619609.0/60

All: 6803.493 $\pm$ 0.577 χ^2/NDF : 4883535.7/11

diff_bpm4eX_mean vs Slug, Sign Corrected



Right In: -15.295 $\pm$ 3.959 χ^2/NDF : 50.4/32

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

Right Out: 14.257 $\pm$ 4.023 χ^2/NDF : 33.8/35

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

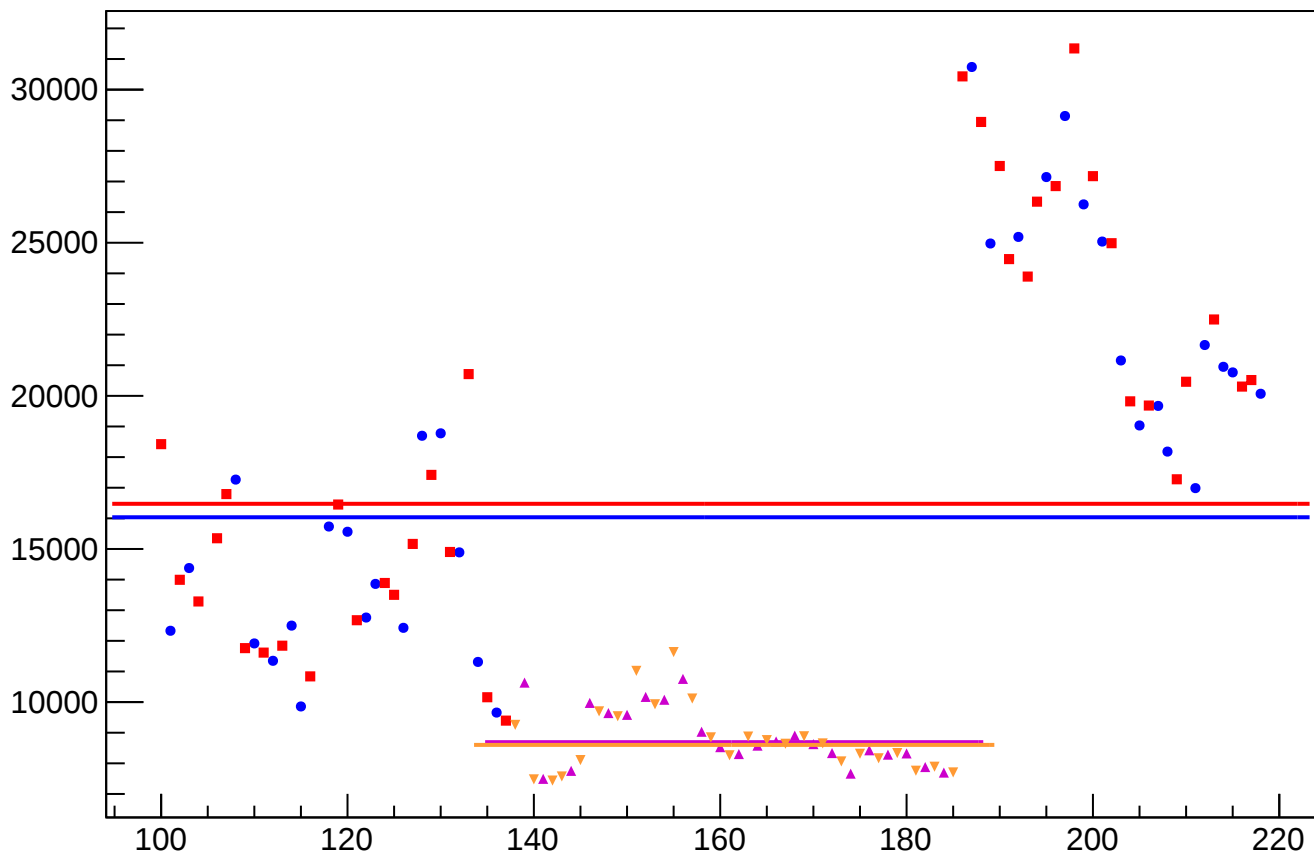
Right: -0.758 $\pm$ 2.822 χ^2/NDF : 111.6/68

In: -3.092 $\pm$ 1.855 χ^2/NDF : 92.5/55

Out: -4.642 $\pm$ 1.806 χ^2/NDF : 120.2/60

All: -3.888 $\pm$ 1.294 χ^2/NDF : 213.0/116

diff_bpm4eX_rms vs Slug, Sign Corrected



Right In: 16035.462 $\pm$ 2.799 χ^2 /NDF: 3435500.8/32

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

Right Out: 16475.151 $\pm$ 2.845 χ^2 /NDF: 3788475.8/35

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

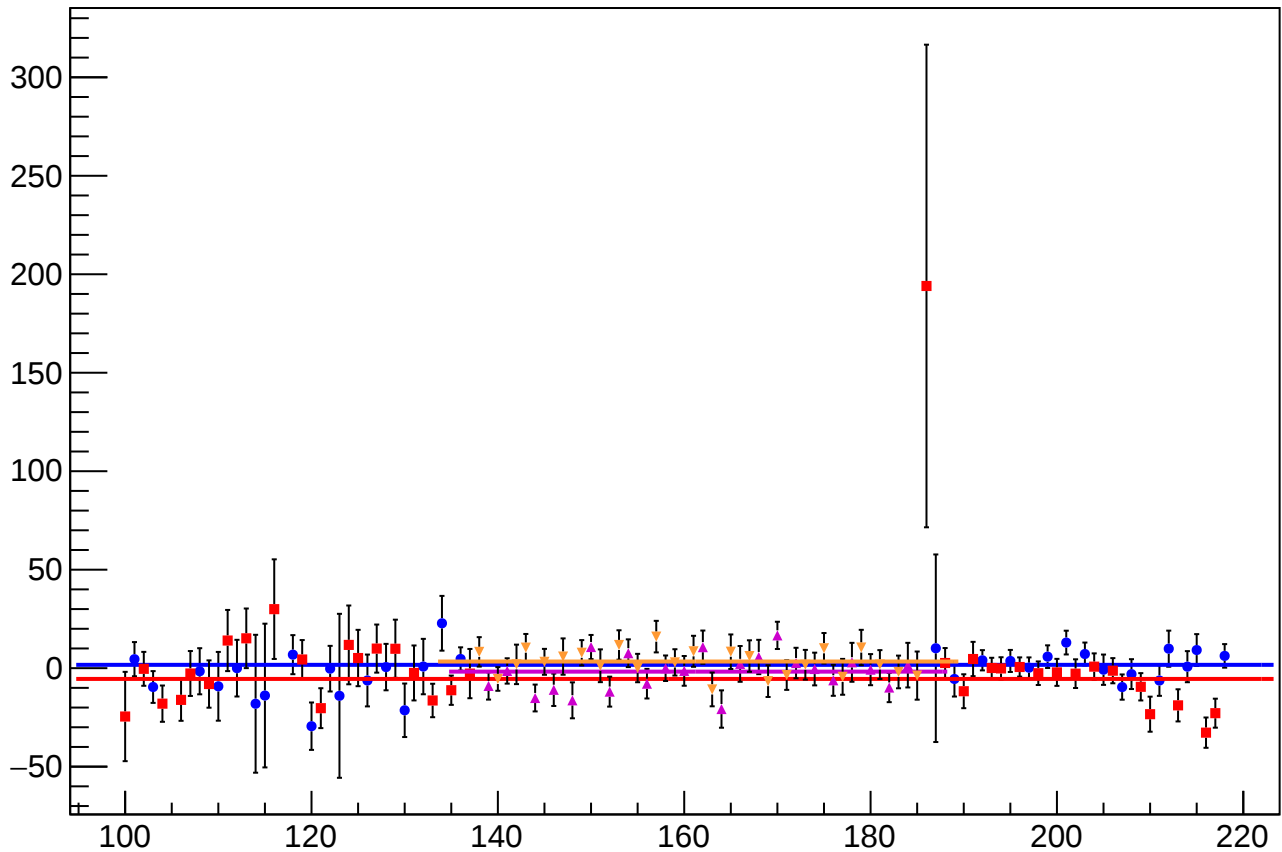
Right: 16251.755 $\pm$ 1.995 χ^2 /NDF: 7236113.2/68

In: 10304.616 $\pm$ 1.312 χ^2 /NDF: 9172063.1/55

Out: 10188.554 $\pm$ 1.277 χ^2 /NDF: 10342767.9/60

All: 10245.015 $\pm$ 0.915 χ^2 /NDF: 19518849.4

diff_bpm4eY_mean vs Slug, Sign Corrected



Right In: 1.688 ± 1.441 $\chi^2/\text{NDF}: 28.9/32$

Left Out: 3.374 ± 1.552 $\chi^2/\text{NDF}: 17.2/24$

Right Out: -5.463 ± 1.420 $\chi^2/\text{NDF}: 55.2/35$

Left In: -1.756 ± 1.607 $\chi^2/\text{NDF}: 33.5/22$

Left: 0.899 ± 1.116 $\chi^2/\text{NDF}: 56.0/47$

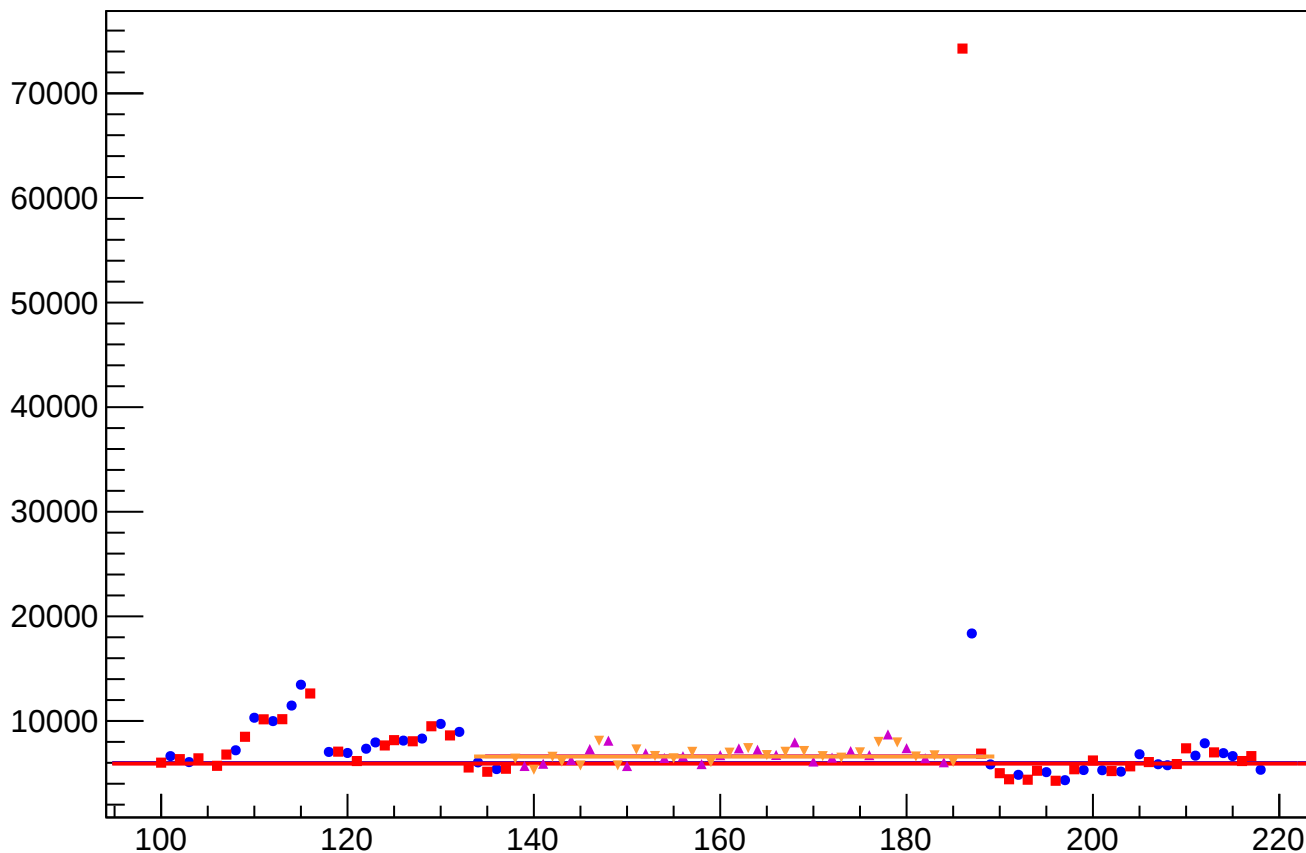
Right: -1.940 ± 1.012 $\chi^2/\text{NDF}: 96.6/68$

In: 0.153 ± 1.073 $\chi^2/\text{NDF}: 65.0/55$

Out: -1.434 ± 1.048 $\chi^2/\text{NDF}: 90.1/60$

All: -0.660 ± 0.750 $\chi^2/\text{NDF}: 156.2/116$

diff_bpm4eY_rms vs Slug, Sign Corrected



Right In: 5976.296 $\pm$ 1.019

χ^2/NDF : 1668930.0/32

Left Out: 6603.953 $\pm$ 1.097

χ^2/NDF : 395247.5/24

Right Out: 5926.239 $\pm$ 1.004

χ^2/NDF : 2254592.1/35

Left In: 6637.155 $\pm$ 1.136

χ^2/NDF : 415547.5/22

Left: 6619.974 $\pm$ 0.789 χ^2/NDF : 811236.9/47

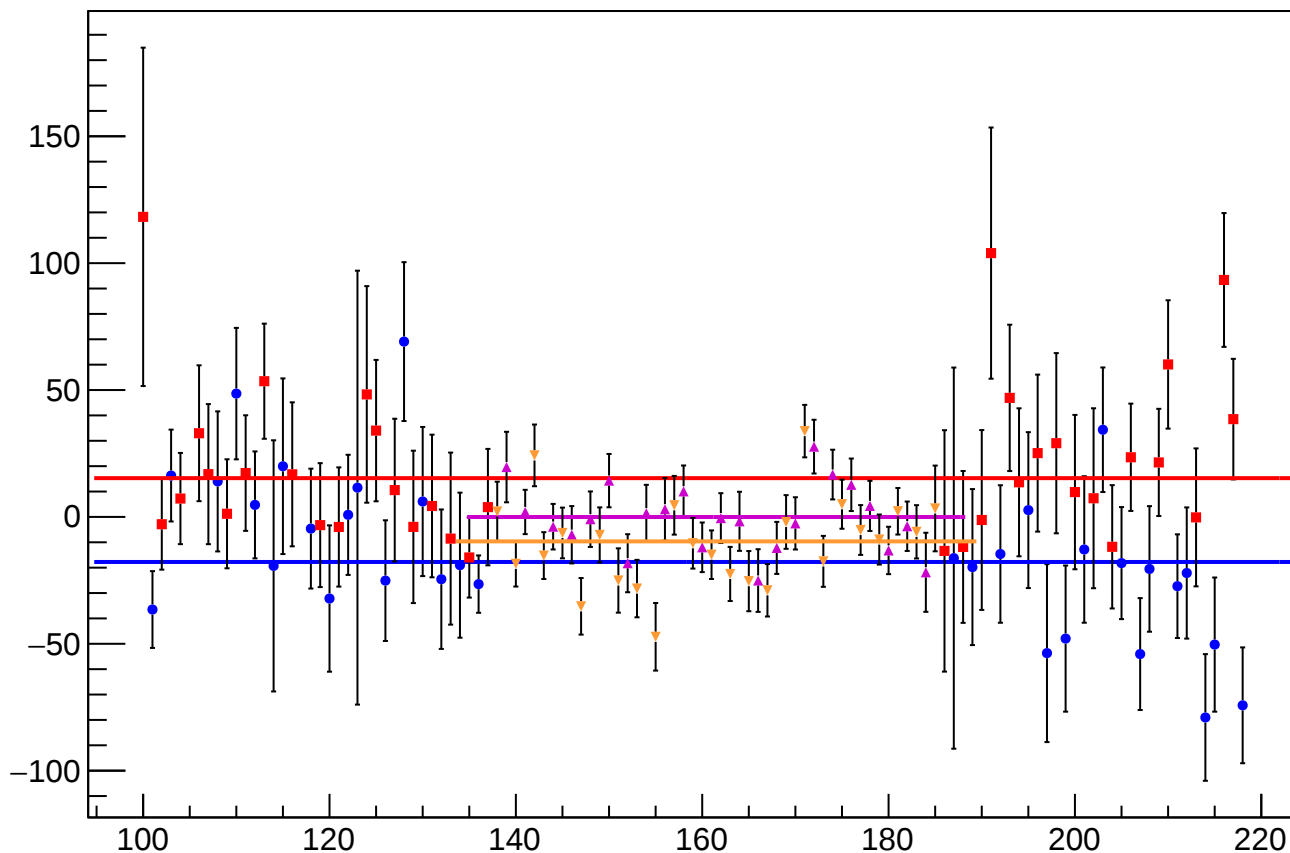
Right: 5950.901 $\pm$ 0.715 χ^2/NDF : 3924745.7/68

In: 6270.946 $\pm$ 0.759 χ^2/NDF : 2271907.0/55

Out: 6235.214 $\pm$ 0.741 χ^2/NDF : 2857389.9/60

All: 6252.655 $\pm$ 0.530 χ^2/NDF : 5130432.2/11

diff_bpm4acX_mean vs Slug, Sign Corrected



Right In: -17.755 $\pm$ 4.222 χ^2/NDF : 49.5/32

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

Right Out: 15.279 $\pm$ 4.331 χ^2/NDF : 35.7/35

Left In: -0.042 $\pm$ 2.200 χ^2/NDF : 30.8/22

Left: -5.015 $\pm$ 1.527 χ^2/NDF : 100.5/47

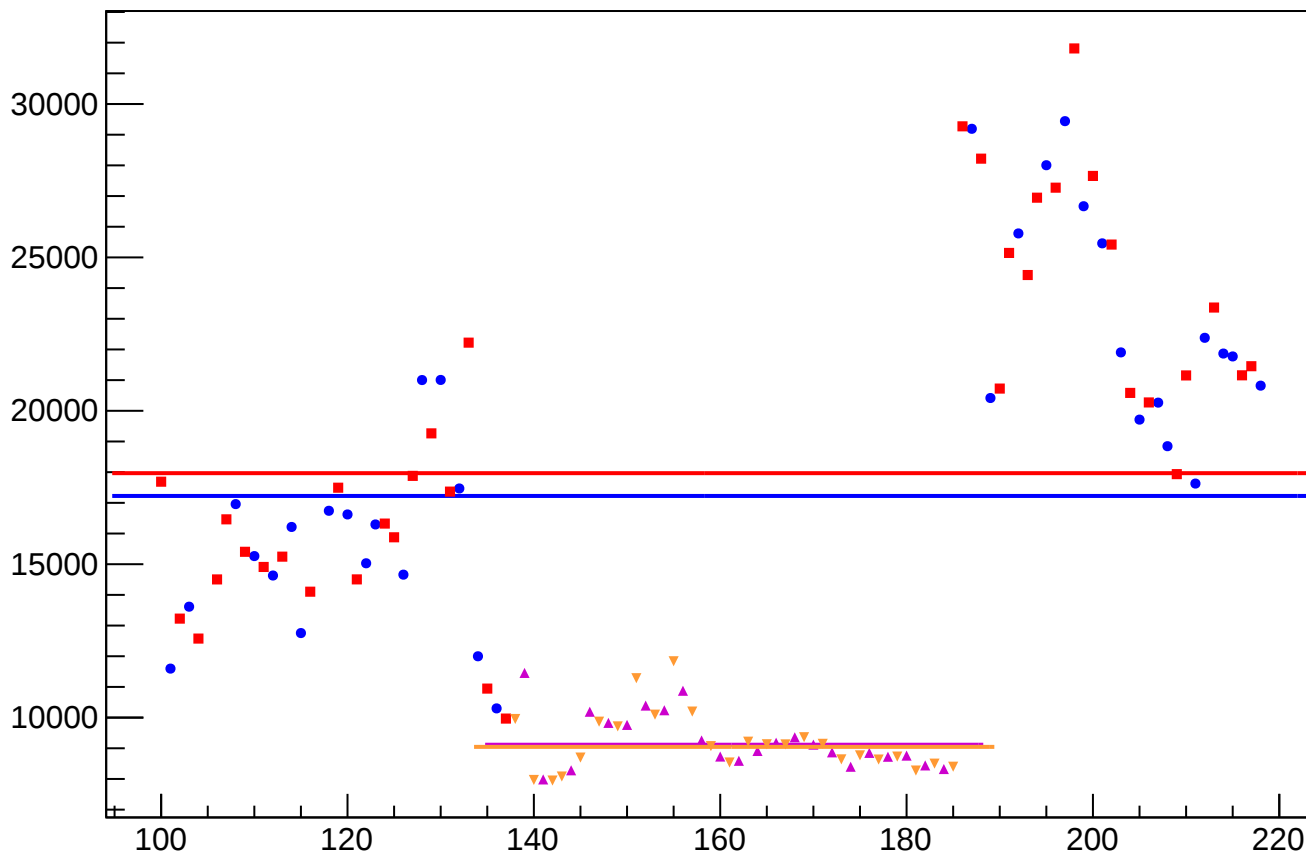
Right: -1.656 $\pm$ 3.023 χ^2/NDF : 115.0/68

In: -3.825 $\pm$ 1.951 χ^2/NDF : 94.1/55

Out: -4.816 $\pm$ 1.905 χ^2/NDF : 122.3/60

All: -4.332 $\pm$ 1.363 χ^2/NDF : 216.5/116

diff_bpm4acX_rms vs Slug, Sign Corrected



Right In: 17224.933 $\pm$ 2.986 χ^2 /NDF: 2896816.6/32

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

Right Out: 17967.437 $\pm$ 3.062 χ^2 /NDF: 2920306.3/35

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

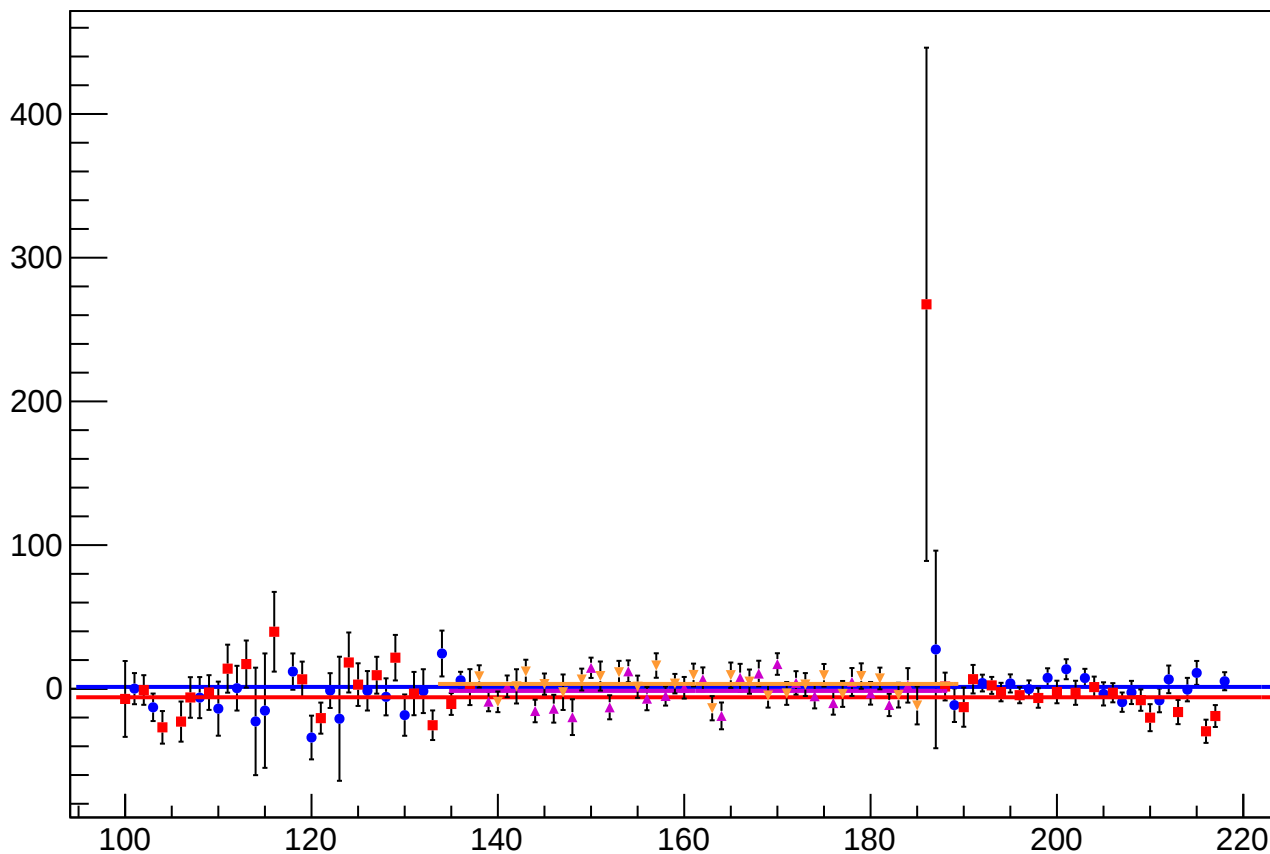
Right: 17586.789 $\pm$ 2.138 χ^2 /NDF: 5847263.6/68

In: 10847.394 $\pm$ 1.380 χ^2 /NDF:8970834.5/55

Out: 10772.862 $\pm$ 1.347 χ^2 /NDF:10093878.8/60

All: 10809.243 $\pm$ 0.964 χ^2 /NDF: 19066207.1

diff_bpm4acY_mean vs Slug, Sign Corrected



Right In: 1.307 ± 1.593 χ^2/NDF : 28.3/32

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

Right Out: -5.888 ± 1.593 χ^2/NDF : 48.6/35

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

Left: 1.015 ± 1.194 χ^2/NDF : 60.3/47

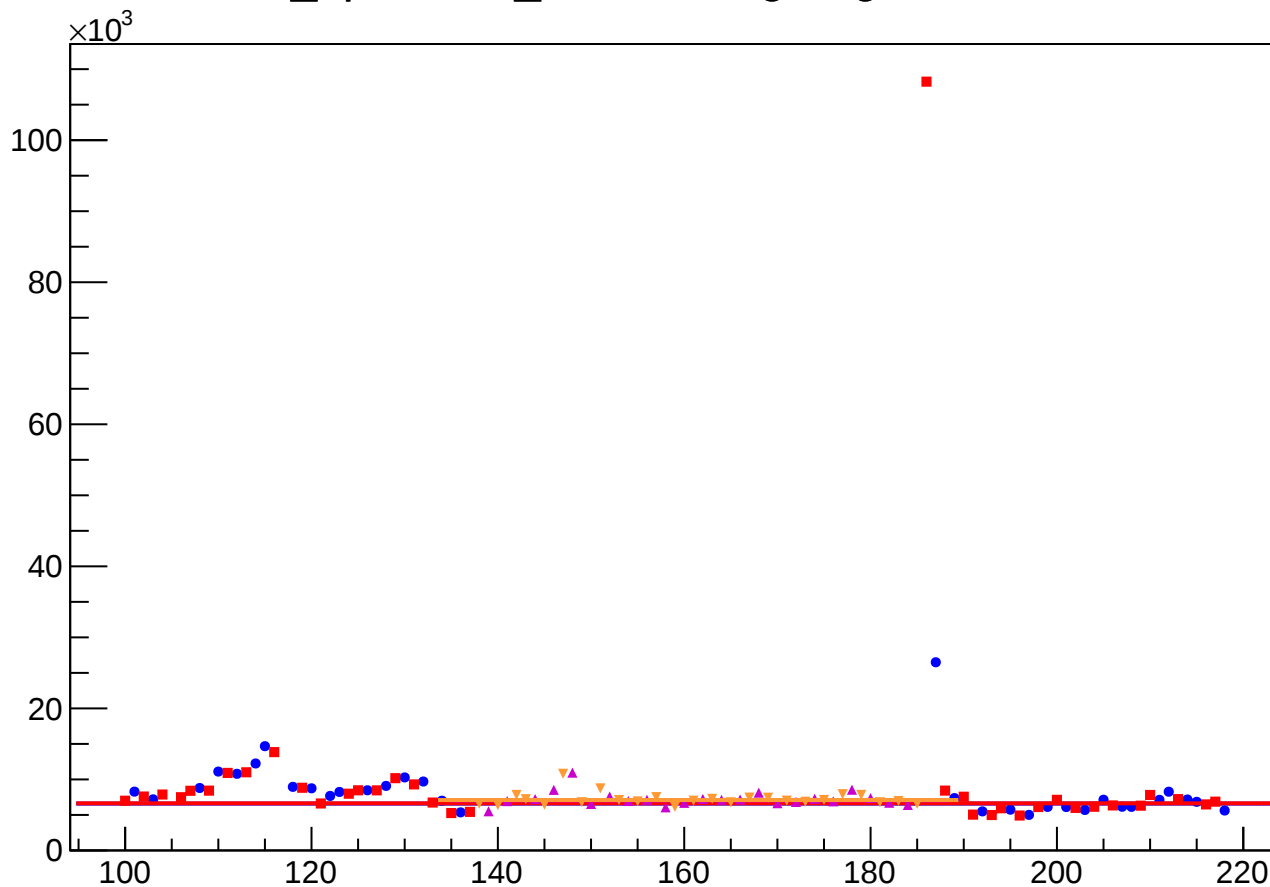
Right: -2.291 ± 1.126 χ^2/NDF : 87.1/68

In: 0.013 ± 1.166 χ^2/NDF : 66.4/55

Out: -1.464 ± 1.152 χ^2/NDF : 84.2/60

All: -0.735 ± 0.819 χ^2/NDF : 151.4/116

diff_bpm4acY_rms vs Slug, Sign Corrected



Right In: 6597.401 $\pm$ 1.126 χ^2/NDF : 1669882.2/32

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

Right Out: 6634.111 $\pm$ 1.126 χ^2/NDF : 2157379.1/35

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

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

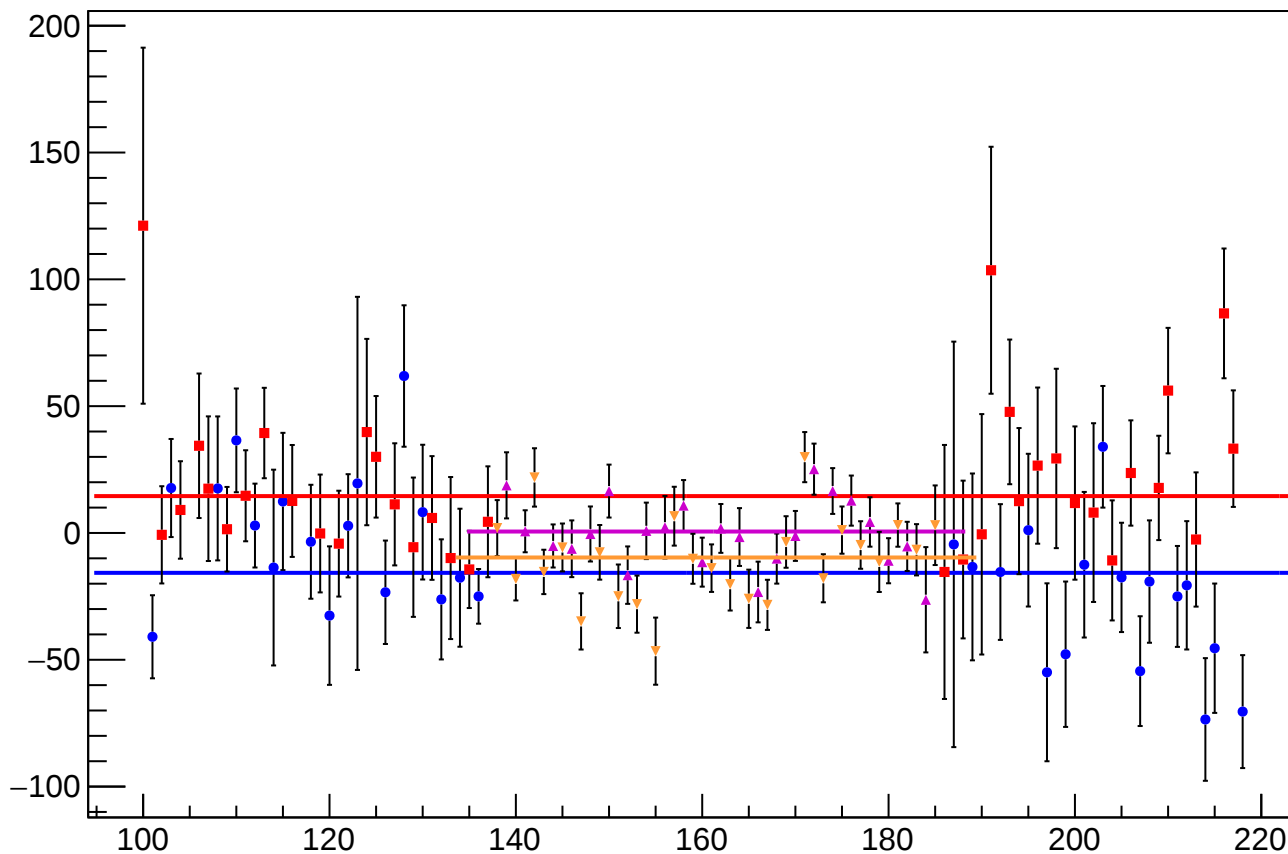
Right: 6615.755 $\pm$ 0.796 χ^2/NDF : 3827792.6/68

In: 6806.339 $\pm$ 0.824 χ^2/NDF : 2261429.6/55

Out: 6854.586 $\pm$ 0.814 χ^2/NDF : 2619670.4/60

All: 6830.746 $\pm$ 0.579 χ^2/NDF : 4882833.8/11

diff_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -15.722 ± 4.008 χ^2/NDF : 50.7/32

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

Right Out: 14.535 ± 4.076 χ^2/NDF : 32.7/35

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

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

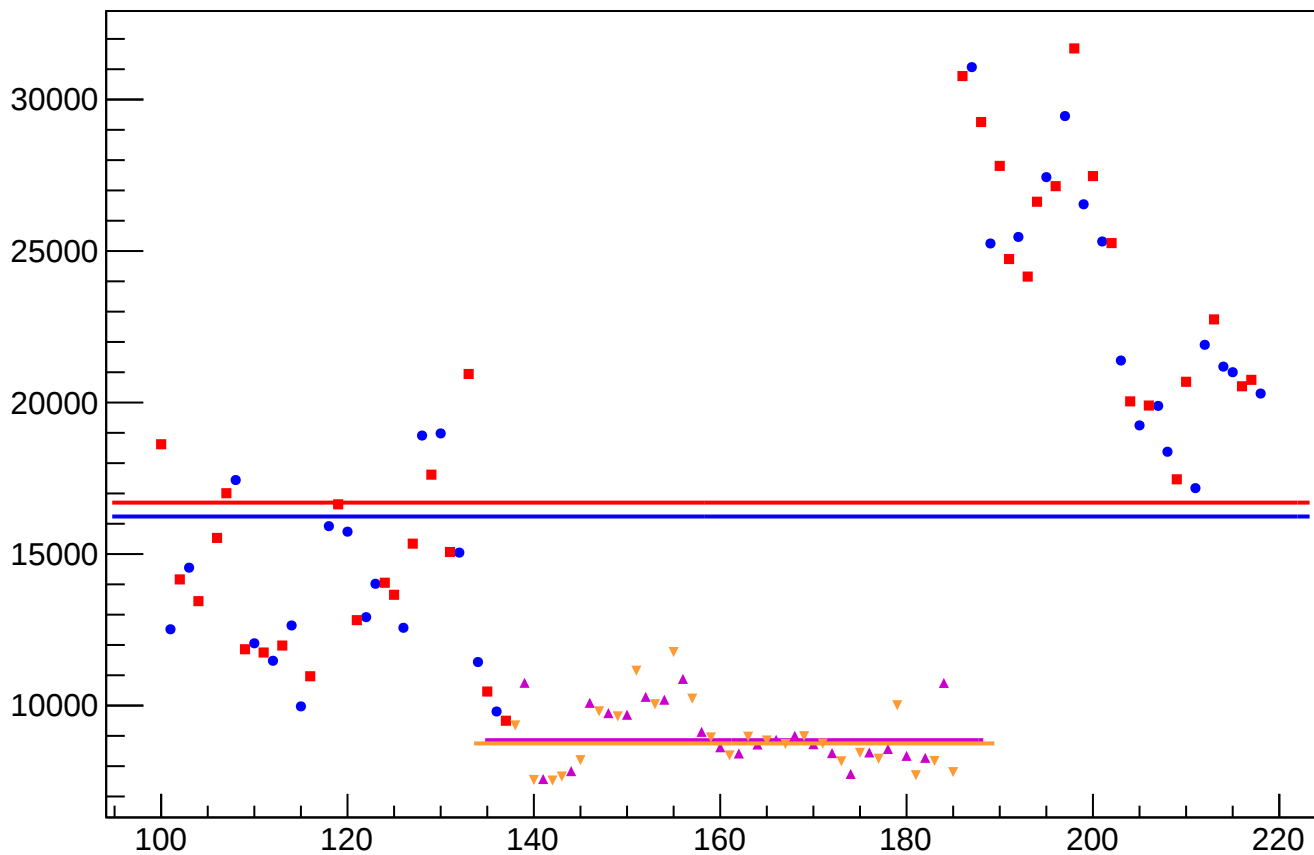
Right: -0.846 ± 2.858 χ^2/NDF : 111.4/68

In: -3.058 ± 1.890 χ^2/NDF : 93.3/55

Out: -4.743 ± 1.839 χ^2/NDF : 118.7/60

All: -3.924 ± 1.318 χ^2/NDF : 212.4/116

diff_bpm4ecX_rms vs Slug, Sign Corrected



Right In: 16239.288 $\pm$ 2.834 χ^2 /NDF: 3410897.2/32

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

Right Out: 16697.822 $\pm$ 2.882 χ^2 /NDF: 3748169.0/35

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

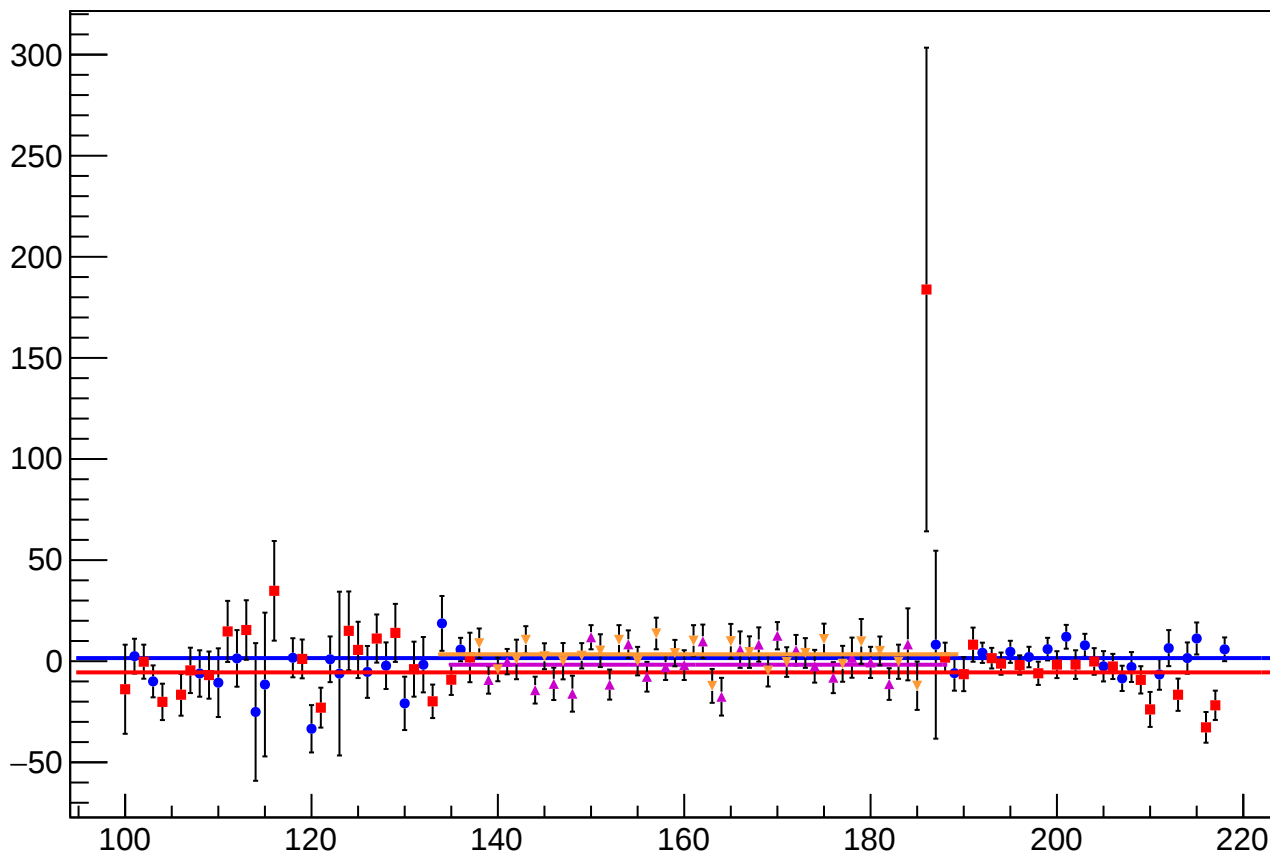
Right: 16464.722 $\pm$ 2.021 χ^2 /NDF: 7171933.4/68

In: 10499.089 $\pm$ 1.337 χ^2 /NDF: 9047349.7/55

Out: 10368.199 $\pm$ 1.300 χ^2 /NDF: 10267894.0/60

All: 10431.842 $\pm$ 0.932 χ^2 /NDF: 19320170.2

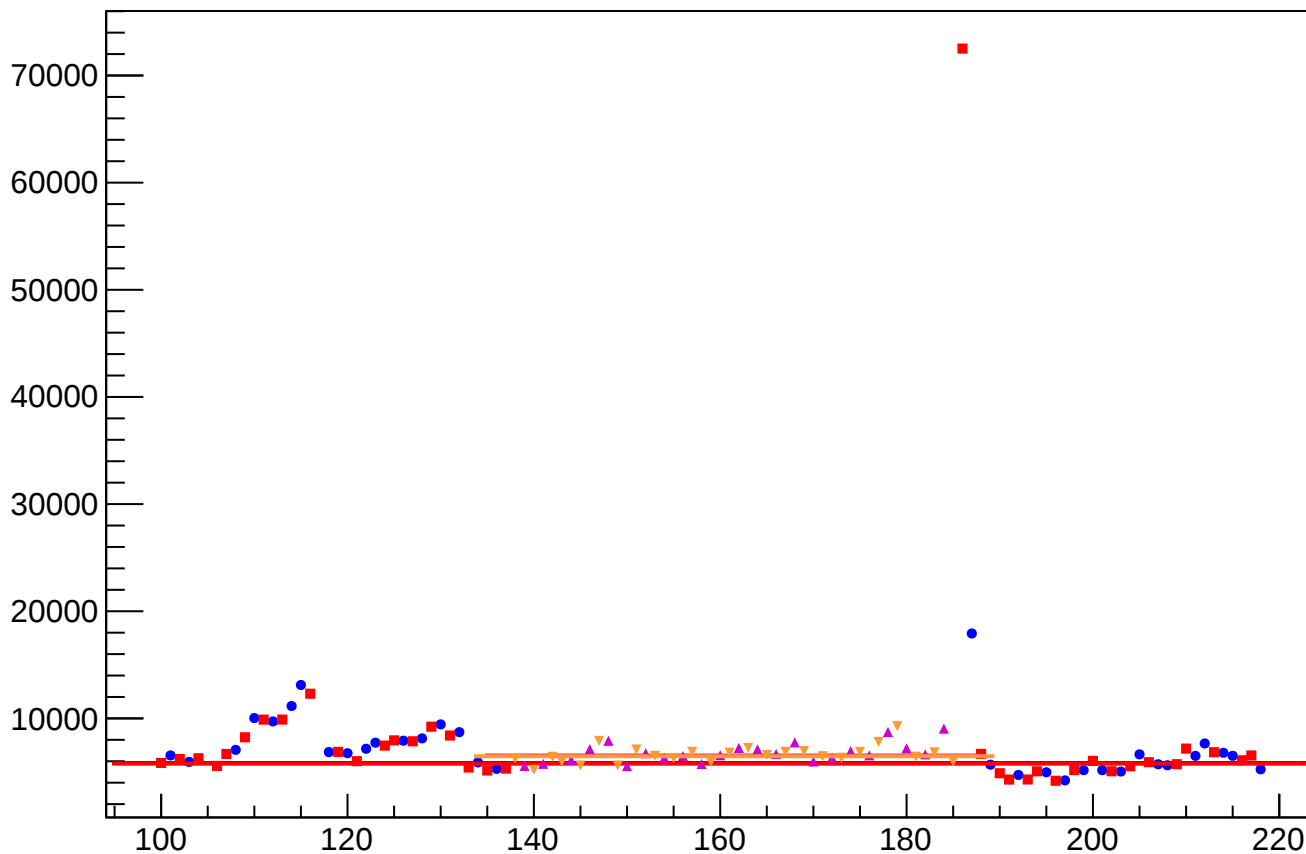
diff_bpm4ecY_mean vs Slug, Sign Corrected



Right In: 1.546 ± 1.407 $\chi^2/\text{NDF}: 31.4/32$
Left Out: 3.433 ± 1.526 $\chi^2/\text{NDF}: 16.2/24$
Right Out: -5.523 ± 1.386 $\chi^2/\text{NDF}: 58.9/35$
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: -2.042 ± 0.987 $\chi^2/\text{NDF}: 103.2/68$
In: 0.101 ± 1.052 $\chi^2/\text{NDF}: 67.4/55$
Out: -1.474 ± 1.026 $\chi^2/\text{NDF}: 94.0/60$
All: -0.707 ± 0.735 $\chi^2/\text{NDF}: 162.6/116$

diff_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 5831.219+/-0.995 χ^2/NDF : 1673704.1/32

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

Right Out: 5779.977+/-0.980 χ^2/NDF : 2250842.1/35

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

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

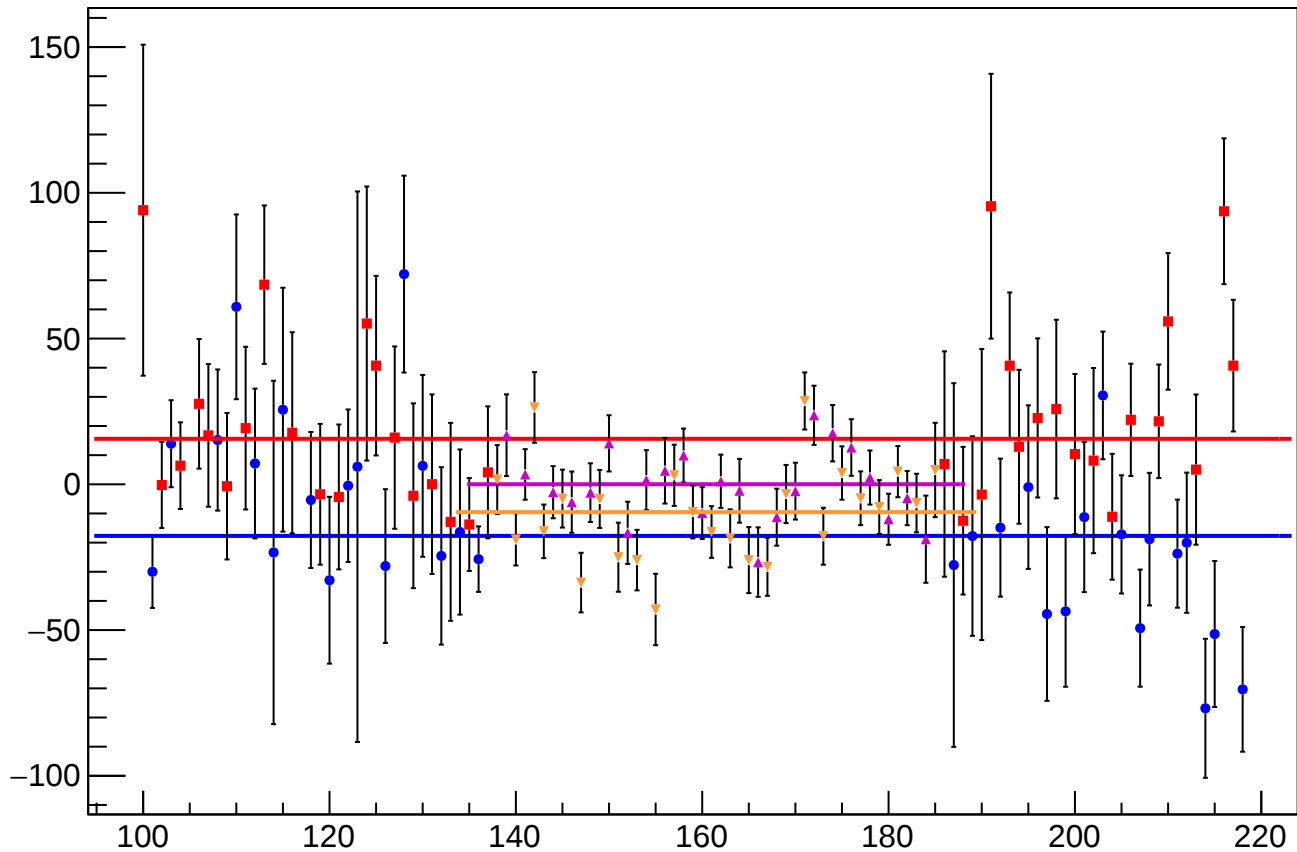
Right: 5805.211+/-0.698 χ^2/NDF : 3925892.6/68

In: 6139.423+/-0.744 χ^2/NDF : 2356251.4/55

Out: 6091.440+/-0.725 χ^2/NDF : 2961444.5/60

All: 6114.817+/-0.519 χ^2/NDF : 5319827.7/11

diff_bpm1X_mean vs Slug, Sign Corrected



Right In: -17.694 ± 4.027 $\chi^2/\text{NDF}: 48.6/32$

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

Right Out: 15.612 ± 4.149 $\chi^2/\text{NDF}: 37.2/35$

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

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

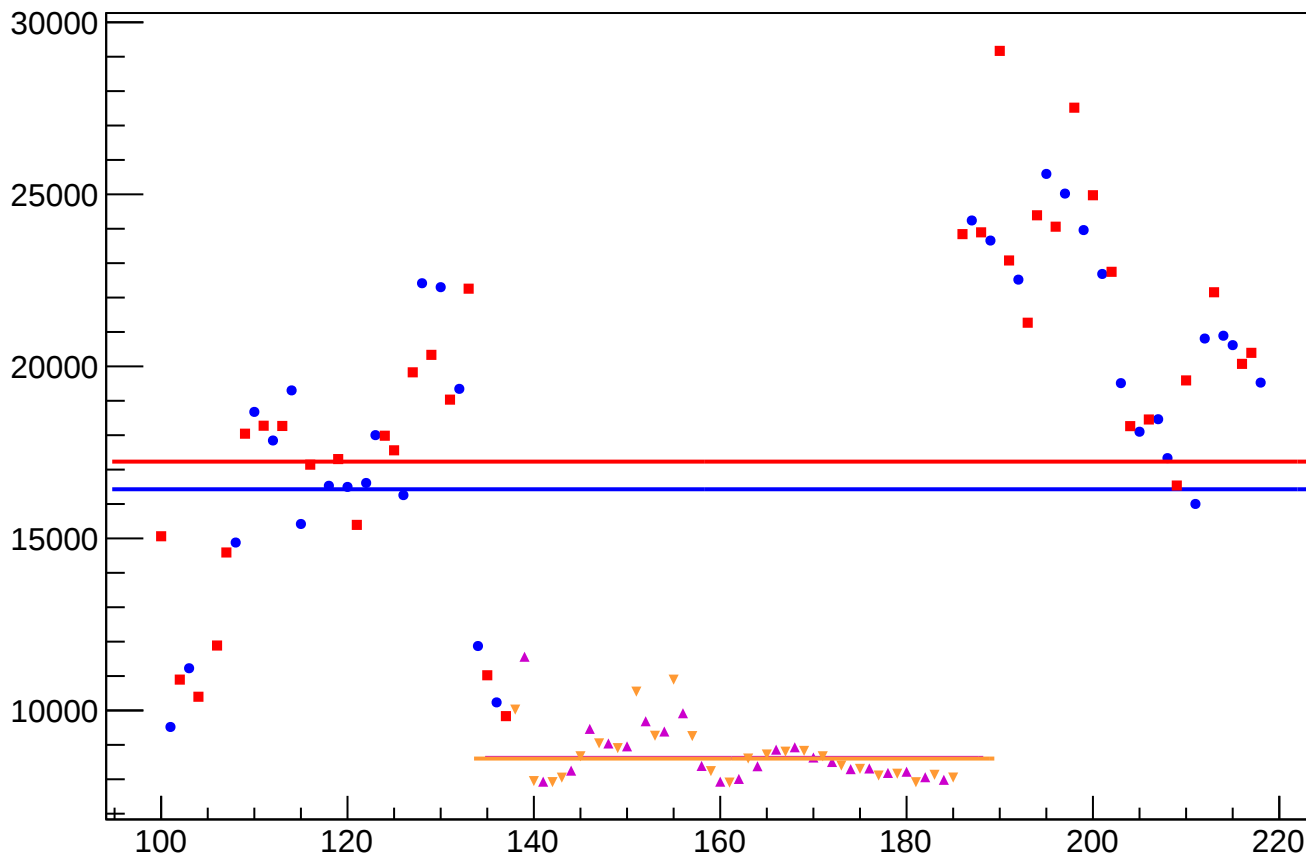
Right: -1.540 ± 2.890 $\chi^2/\text{NDF}: 119.1/68$

In: -3.706 ± 1.848 $\chi^2/\text{NDF}: 93.8/55$

Out: -4.730 ± 1.813 $\chi^2/\text{NDF}: 126.5/60$

All: -4.228 ± 1.294 $\chi^2/\text{NDF}: 220.5/116$

diff_bpm1X_rms vs Slug, Sign Corrected



Right In: 16428.553 $\pm$ 2.847 χ^2 /NDF: 2938153.2/32

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

Right Out: 17232.096 $\pm$ 2.934 χ^2 /NDF: 2840840.3/35

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

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

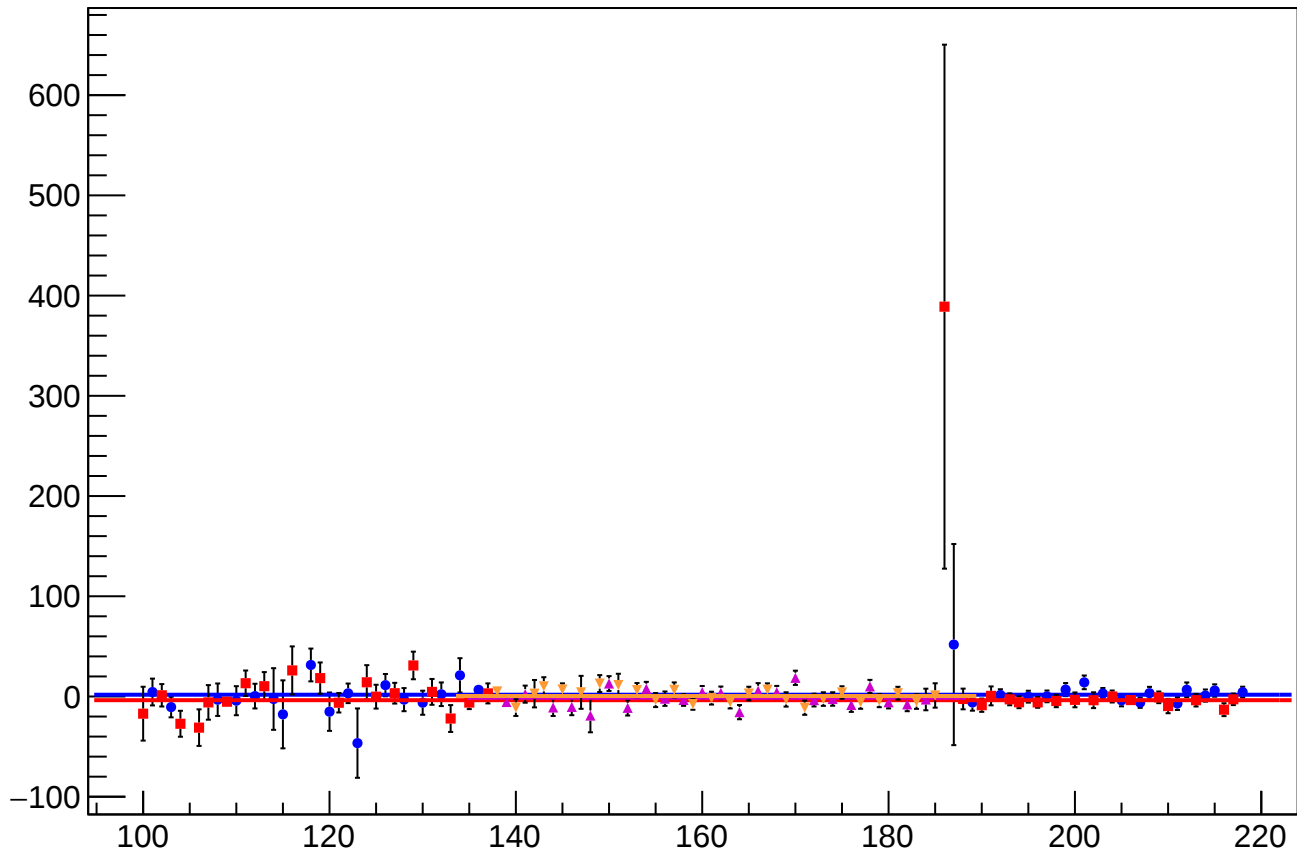
Right: 16818.287 $\pm$ 2.043 χ^2 /NDF: 5817623.7/68

In: 10266.114 $\pm$ 1.307 χ^2 /NDF: 9103198.0/55

Out: 10249.224 $\pm$ 1.282 χ^2 /NDF: 10090928.2/60

All: 10257.507 $\pm$ 0.915 χ^2 /NDF: 19194211.3

diff_bpm1Y_mean vs Slug, Sign Corrected



Right In: 1.768 ± 1.370 $\chi^2/\text{NDF}: 23.4/32$

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

Right Out: -3.693 ± 1.337 $\chi^2/\text{NDF}: 30.2/35$

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

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

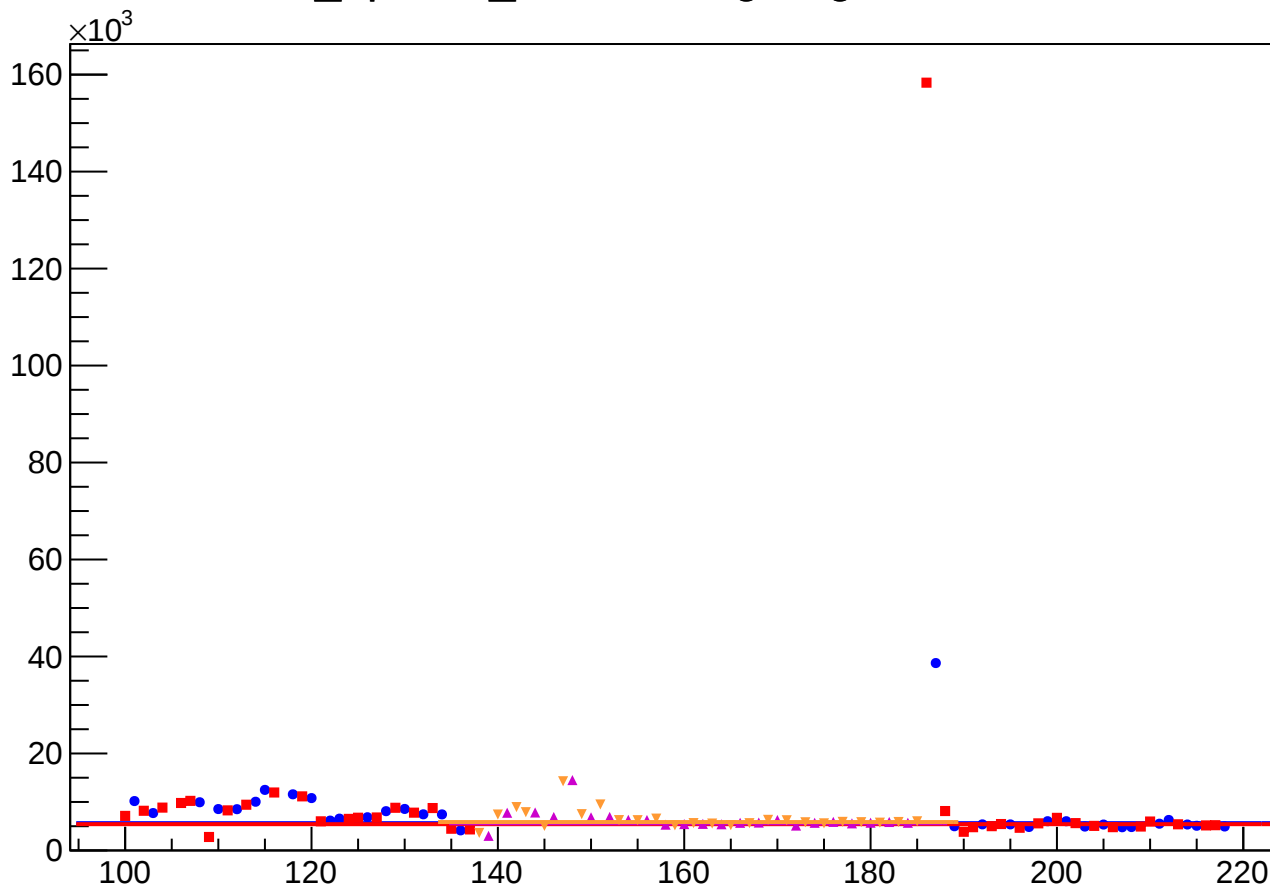
Right: -1.030 ± 0.957 $\chi^2/\text{NDF}: 61.8/68$

In: 0.274 ± 0.981 $\chi^2/\text{NDF}: 58.9/55$

Out: -1.731 ± 0.973 $\chi^2/\text{NDF}: 54.3/60$

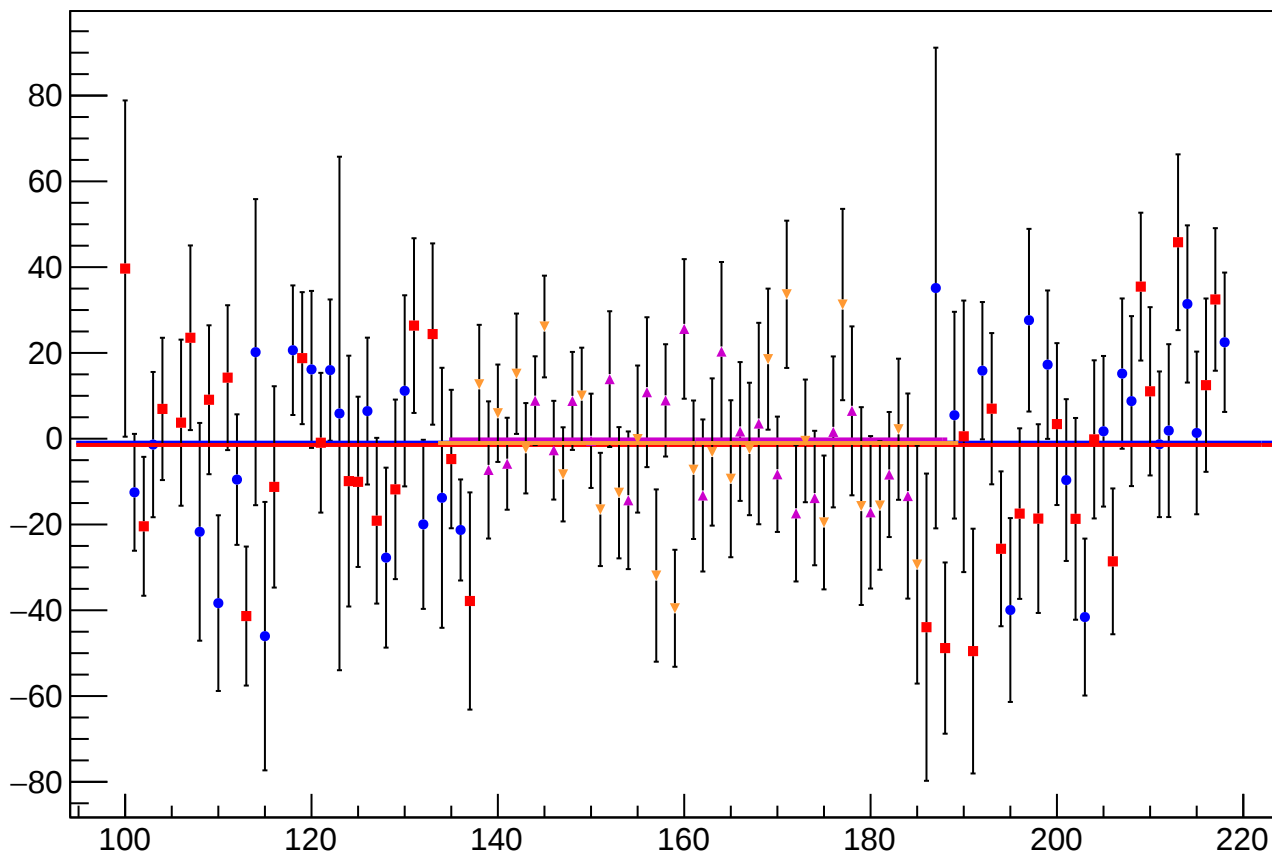
All: -0.737 ± 0.691 $\chi^2/\text{NDF}: 115.4/116$

diff_bpm1Y_rms vs Slug, Sign Corrected



Right In: 5629.834 $\pm$ 0.969	χ^2/NDF : 2184057.1/32	Left: 5726.555 $\pm$ 0.706	χ^2/NDF : 3815425.5/47
Left Out: 5858.642 $\pm$ 1.004	χ^2/NDF : 1691344.1/24	Right: 5521.661 $\pm$ 0.677	χ^2/NDF : 5674223.4/68
Right Out: 5418.714 $\pm$ 0.945	χ^2/NDF : 3465839.3/35	In: 5613.784 $\pm$ 0.694	χ^2/NDF : 4274370.6/55
Left In: 5596.879 $\pm$ 0.994	χ^2/NDF : 2089750.1/22	Out: 5625.519 $\pm$ 0.688	χ^2/NDF : 5259016.5/60
		All: 5619.701 $\pm$ 0.489	χ^2/NDF : 9533531.3/11

diff_bpm11X_mean vs Slug, Sign Corrected



Right In: -0.924 ± 3.282 χ^2/NDF : 36.9/32

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

Right Out: -1.455 ± 3.263 χ^2/NDF : 51.4/35

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

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

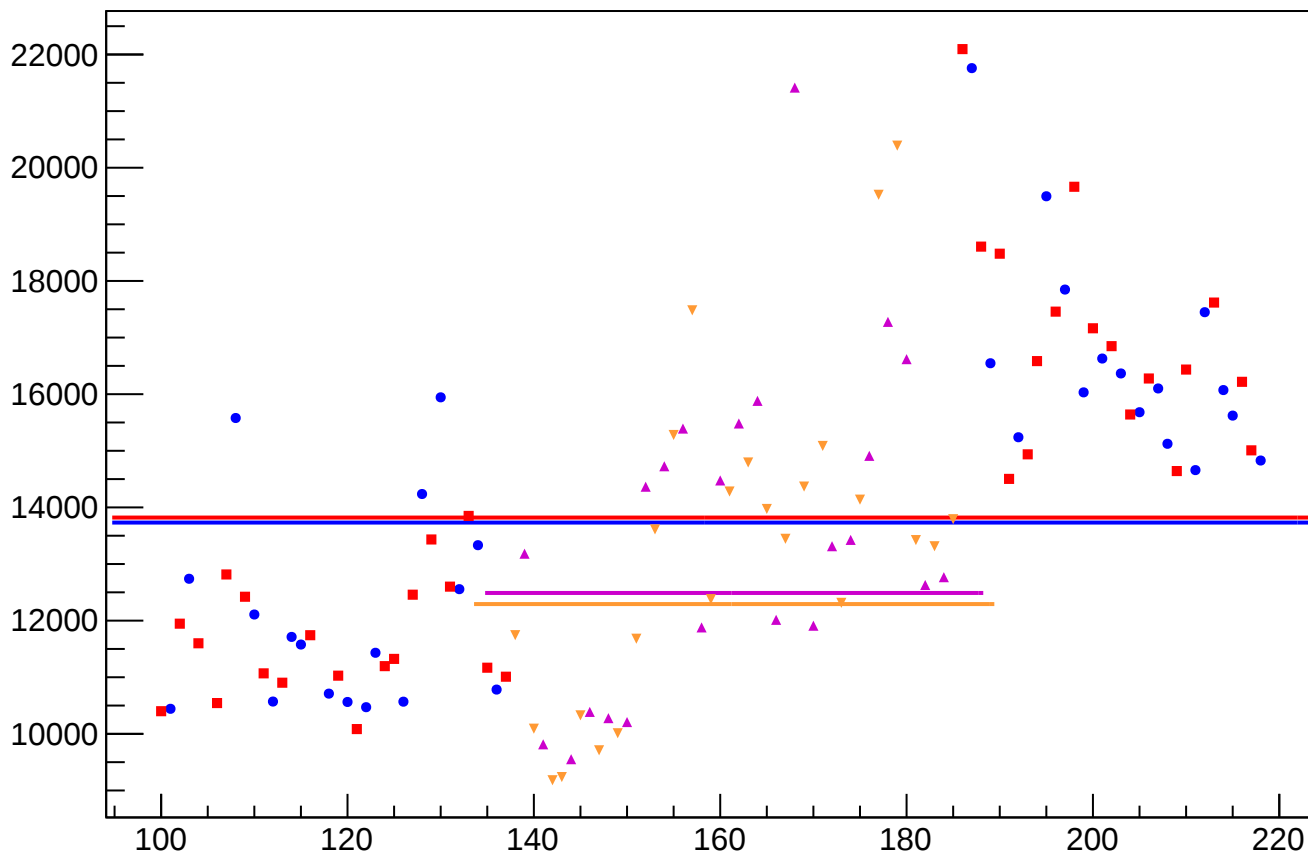
Right: -1.191 ± 2.314 χ^2/NDF : 88.4/68

In: -0.523 ± 2.241 χ^2/NDF : 49.3/55

Out: -1.208 ± 2.185 χ^2/NDF : 84.9/60

All: -0.874 ± 1.564 χ^2/NDF : 134.3/116

diff_bpm11X_rms vs Slug, Sign Corrected



Right In: 13732.281+/-2.321

χ^2/NDF : 1328272.0/32

Left: 12386.599+/-1.501

χ^2/NDF : 2861298.1/47

Left Out: 12292.583+/-2.080

χ^2/NDF : 1502548.3/24

Right: 13776.745+/-1.636

χ^2/NDF : 2763810.7/68

Right Out: 13820.694+/-2.307

χ^2/NDF : 1434808.8/35

In: 13068.507+/-1.585

χ^2/NDF : 2835991.3/55

Out: 12977.653+/-1.545

χ^2/NDF : 3179329.0/60

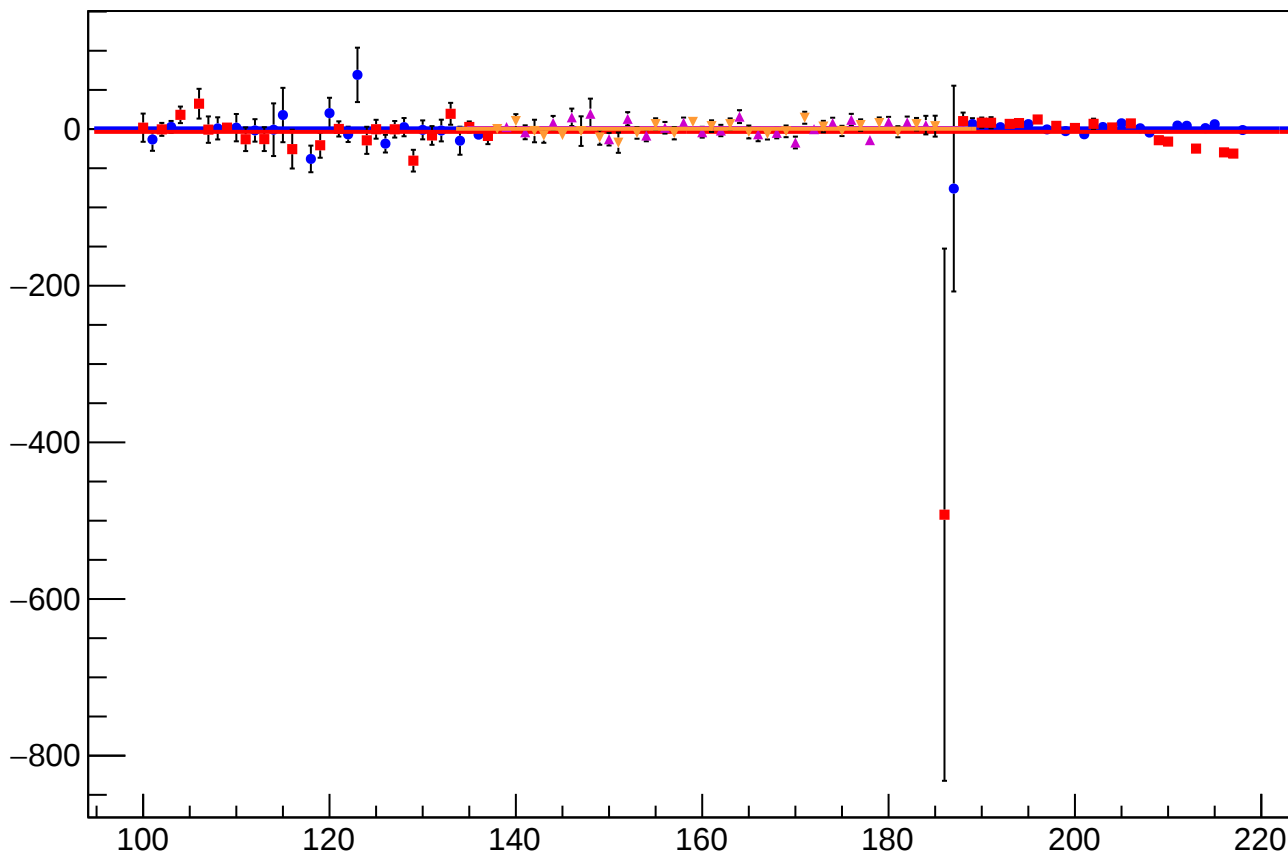
Left In: 12488.821+/-2.169

χ^2/NDF : 1354485.4/22

All: 13021.928+/-1.106

χ^2/NDF : 6017005.7/131

diff_bpm11Y_mean vs Slug, Sign Corrected



Right In: 0.915 ± 1.128 $\chi^2/\text{NDF}: 30.0/32$

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

Right Out: -3.554 ± 1.134 $\chi^2/\text{NDF}: 156.2/35$

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

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

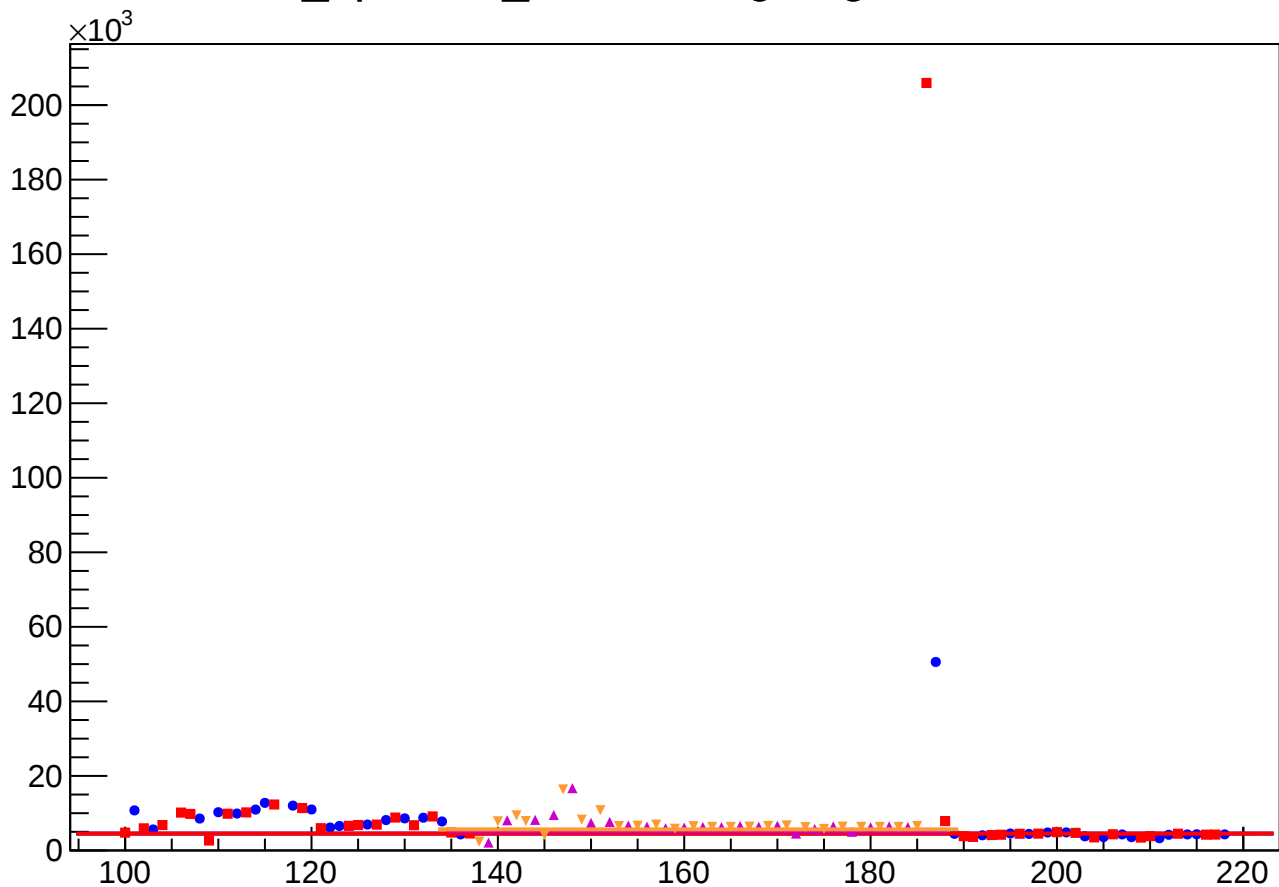
Right: -1.307 ± 0.800 $\chi^2/\text{NDF}: 193.9/68$

In: 1.060 ± 0.875 $\chi^2/\text{NDF}: 64.0/55$

Out: -2.029 ± 0.890 $\chi^2/\text{NDF}: 180.1/60$

All: -0.459 ± 0.624 $\chi^2/\text{NDF}: 250.3/116$

diff_bpm11Y_rms vs Slug, Sign Corrected



Right In: 4532.167+/-0.798 χ^2/NDF : 3472126.9/32

Left Out: 5655.639+/-1.014 χ^2/NDF :4124124.3/24

Right Out: 4525.235+/-0.802 χ^2/NDF : 3967700.6/35

Left In: 5180.743+/-0.980 χ^2/NDF :5350053.6/22

Left: 5409.966+/-0.705 χ^2/NDF : 9587556.1/47

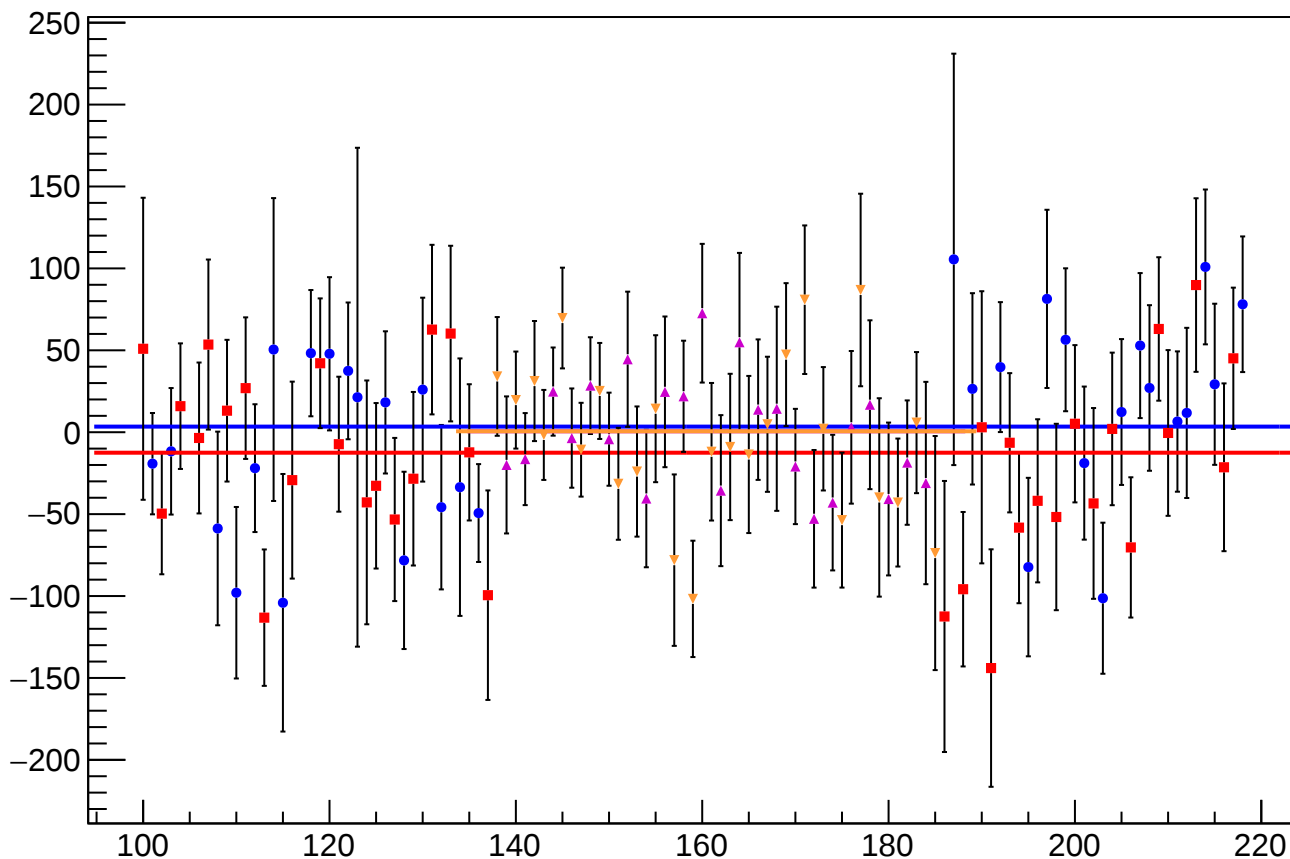
Right: 4528.720+/-0.566 χ^2/NDF : 7439865.1/68

In: 4790.665+/-0.619 χ^2/NDF :9085684.1/55

Out: 4960.068+/-0.629 χ^2/NDF :8855920.8/60

All: 4873.934+/-0.441 χ^2/NDF : 17978467.2/1

diff_bpm12X_mean vs Slug, Sign Corrected



Right In: 3.426 $\pm$ 8.218 χ^2/NDF : 40.3/32

Left Out: 0.580 $\pm$ 7.691 χ^2/NDF : 31.0/24

Right Out: -12.506 $\pm$ 8.168 χ^2/NDF : 40.3/35

Left In: 0.565 $\pm$ 8.015 χ^2/NDF : 14.3/22

Left: 0.572 $\pm$ 5.549 χ^2/NDF : 45.3/47

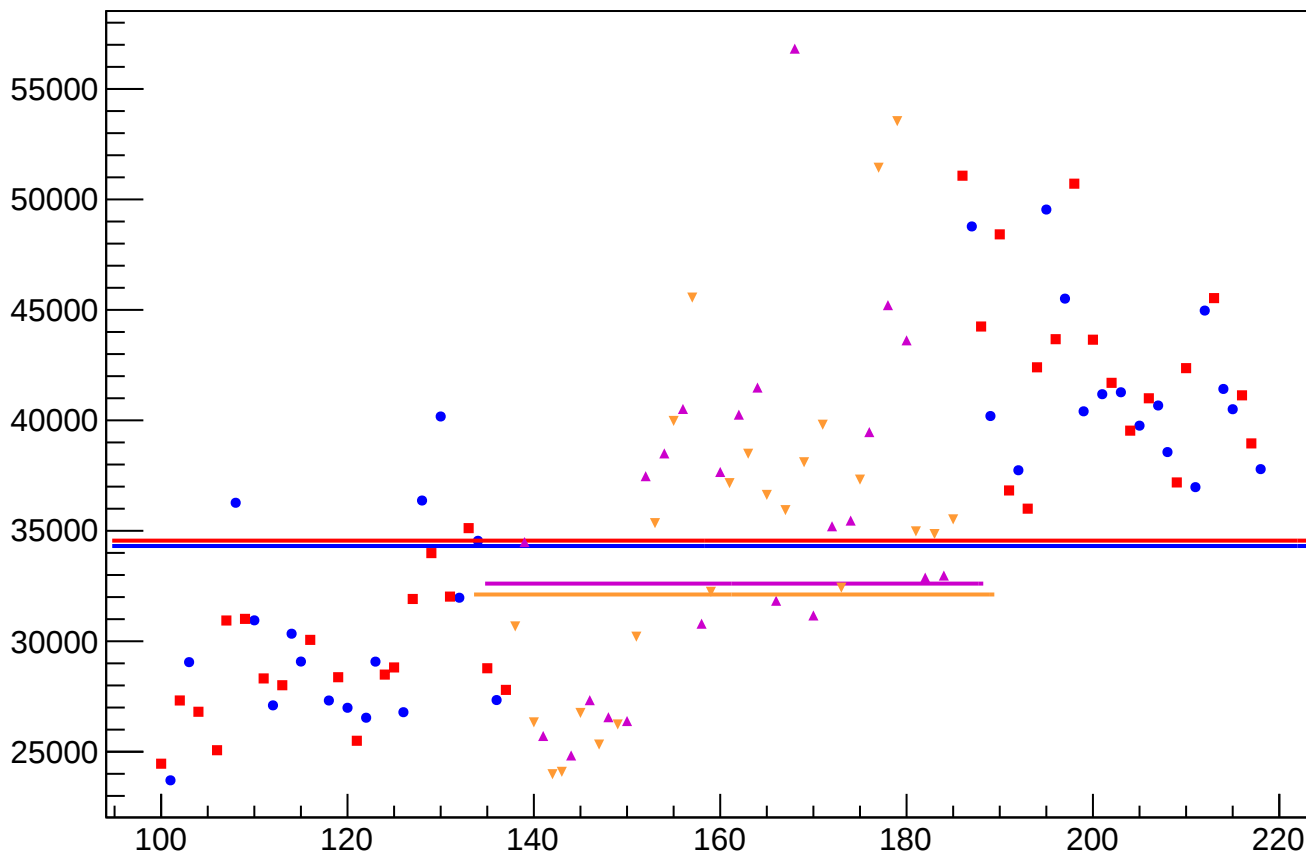
Right: -4.588 $\pm$ 5.793 χ^2/NDF : 82.4/68

In: 1.960 $\pm$ 5.738 χ^2/NDF : 54.6/55

Out: -5.569 $\pm$ 5.599 χ^2/NDF : 72.6/60

All: -1.897 $\pm$ 4.007 χ^2/NDF : 128.1/116

diff_bpm12X_rms vs Slug, Sign Corrected



Right In: 34311.468+/-5.811 χ^2/NDF : 1447554.1/32

Left Out: 32117.184+/-5.438 χ^2/NDF : 1536740.0/24

Right Out: 34555.426+/-5.776 χ^2/NDF : 1523828.0/35

Left In: 32610.108+/-5.667 χ^2/NDF : 1398475.8/22

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

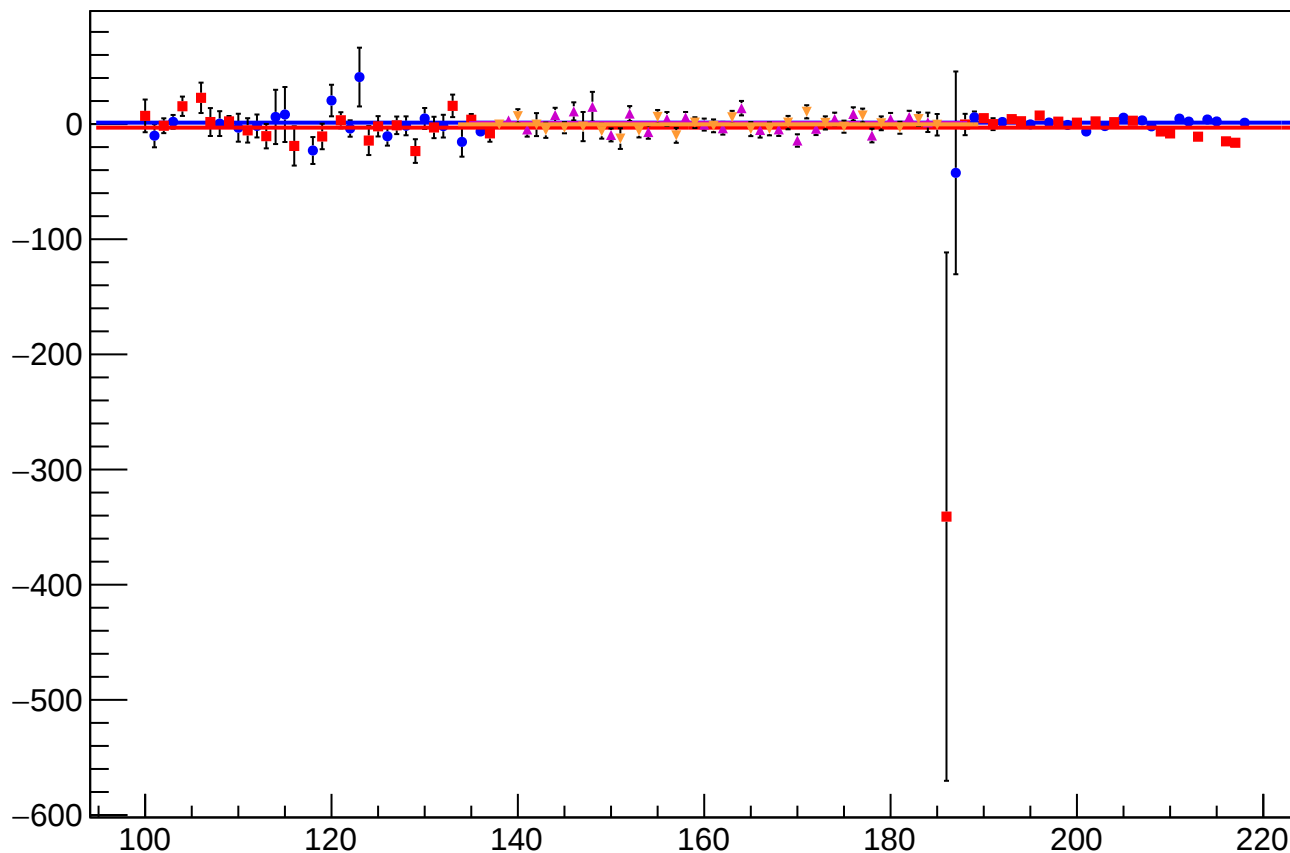
Right: 34434.183+/-4.096 χ^2/NDF : 2972268.7/68

In: 33439.491+/-4.057 χ^2/NDF : 2889966.6/55

Out: 33262.920+/-3.959 χ^2/NDF : 3155033.7/60

All: 33349.052+/-2.834 χ^2/NDF : 6045970.5/122

diff_bpm12Y_mean vs Slug, Sign Corrected



Right In: 1.217 ± 0.650 $\chi^2/\text{NDF}: 38.8/32$

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

Right Out: -3.101 ± 0.685 $\chi^2/\text{NDF}: 135.3/35$

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

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

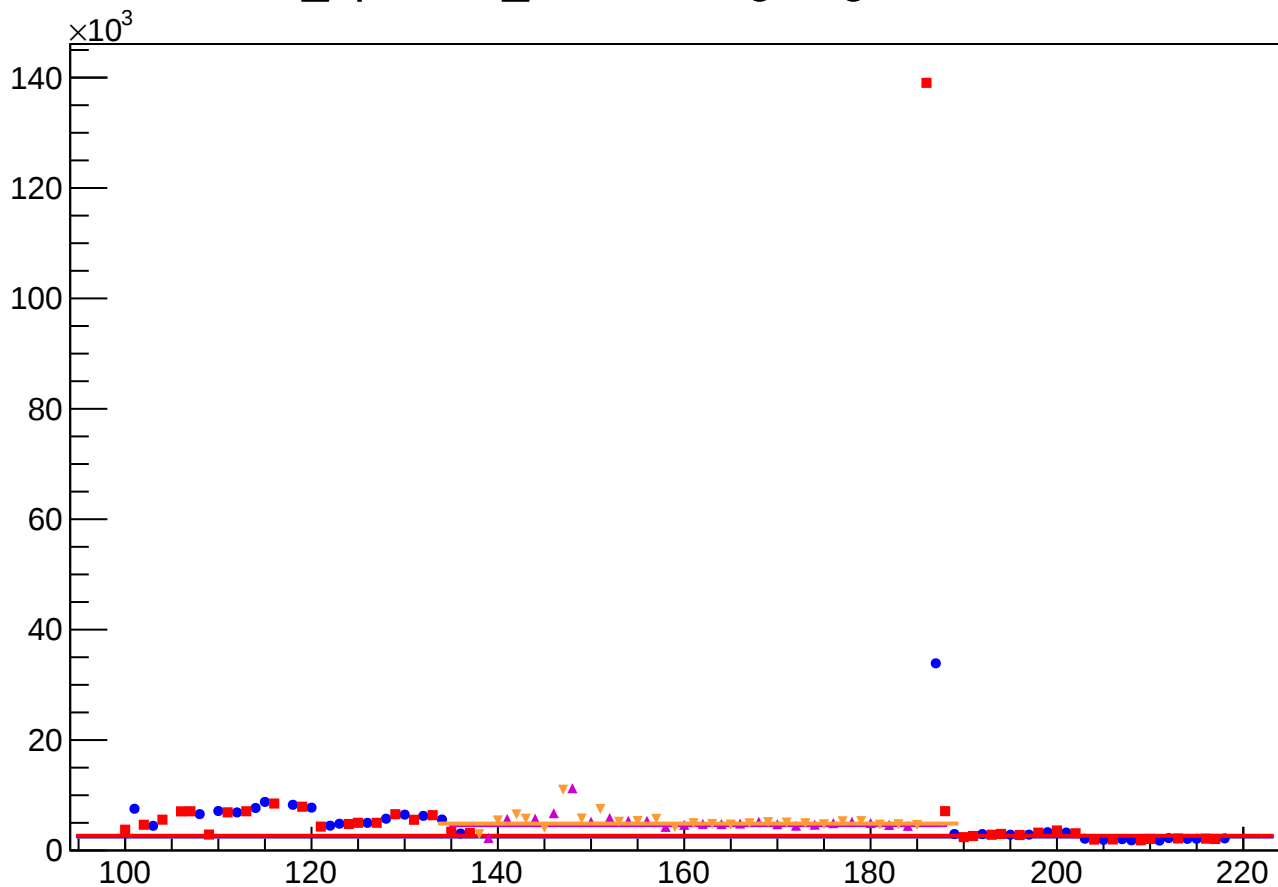
Right: -0.830 ± 0.472 $\chi^2/\text{NDF}: 195.0/68$

In: 1.147 ± 0.566 $\chi^2/\text{NDF}: 75.0/55$

Out: -2.378 ± 0.591 $\chi^2/\text{NDF}: 157.7/60$

All: -0.539 ± 0.409 $\chi^2/\text{NDF}: 251.2/116$

diff_bpm12Y_rms vs Slug, Sign Corrected



Right In: 2526.250+/-0.460 χ^2/NDF : 5598499.4/32

Left Out: 4866.528+/-0.829 χ^2/NDF : 1511486.2/24

Right Out: 2658.828+/-0.484 χ^2/NDF : 6063828.4/35

Left In: 4582.193+/-0.816 χ^2/NDF : 2478681.0/22

Left: 4722.017+/-0.582 χ^2/NDF : 4049906.1/47

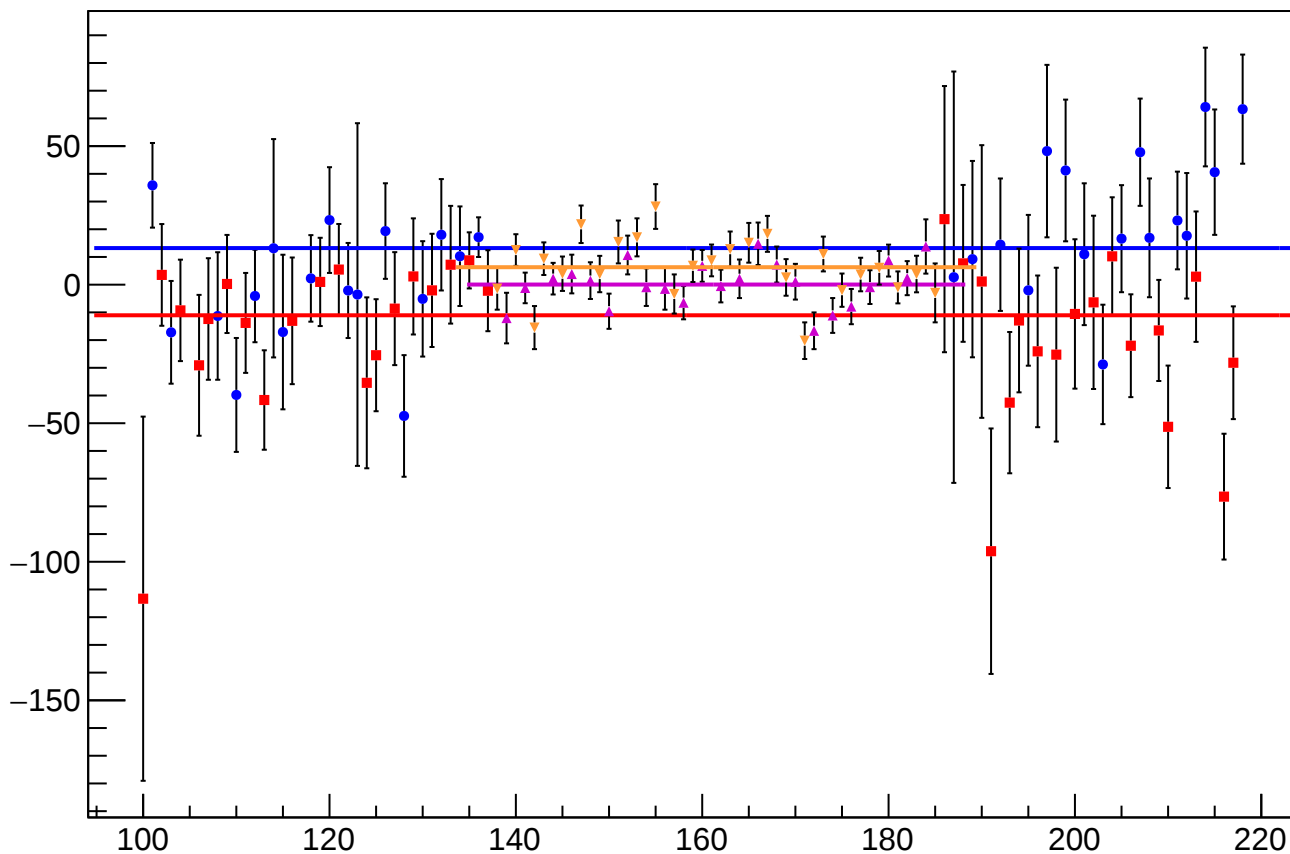
Right: 2589.102+/-0.333 χ^2/NDF : 11701749.4/68

In: 3021.840+/-0.401 χ^2/NDF : 12897531.5/55

Out: 3220.121+/-0.418 χ^2/NDF : 12859819.0/60

All: 3116.708+/-0.289 χ^2/NDF : 25874605.9/117

diff_bpm16X_mean vs Slug, Sign Corrected



Right In: 13.208 ± 3.333 $\chi^2/\text{NDF}: 49.3/32$

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

Right Out: -11.046 ± 3.478 $\chi^2/\text{NDF}: 36.0/35$

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

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

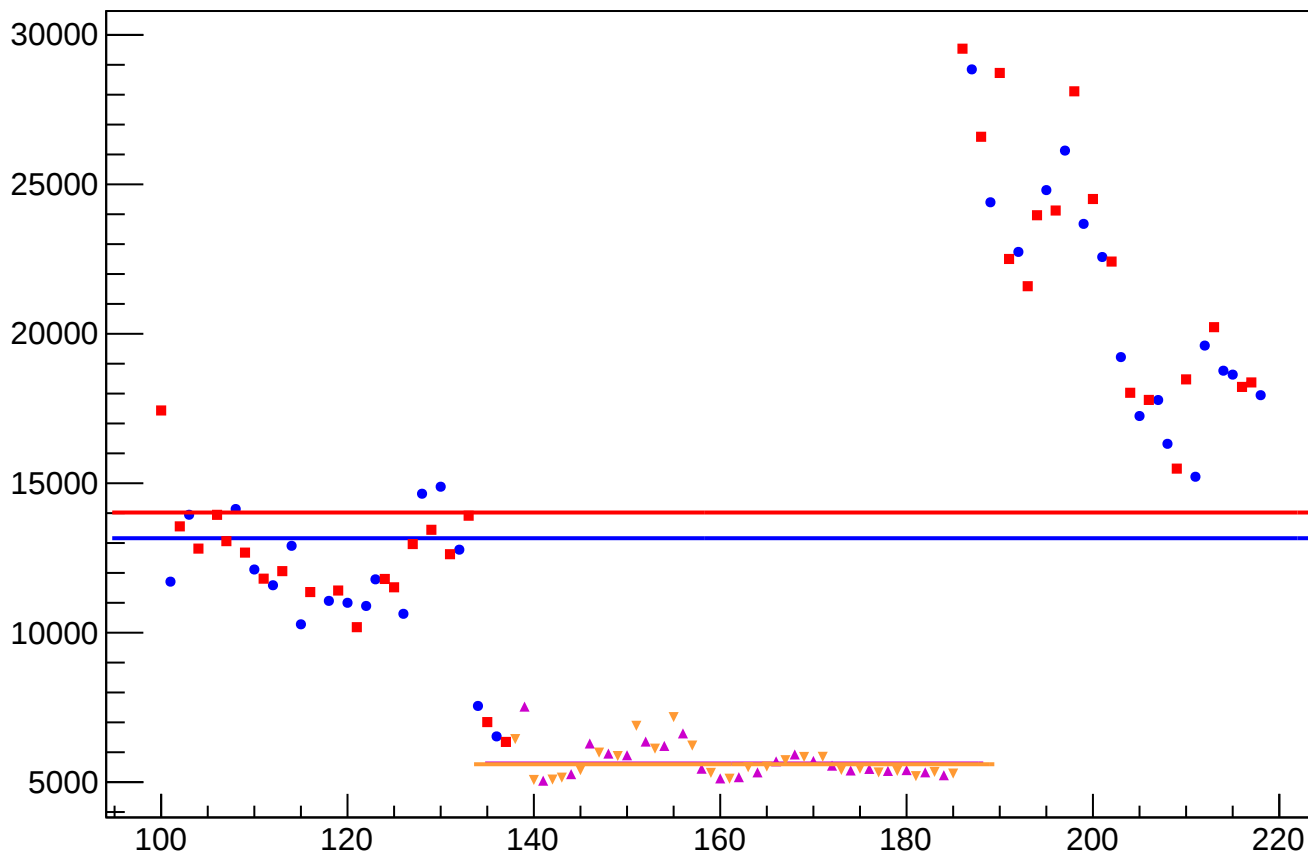
Right: 1.597 ± 2.406 $\chi^2/\text{NDF}: 110.7/68$

In: 1.918 ± 1.257 $\chi^2/\text{NDF}: 92.7/55$

Out: 4.139 ± 1.228 $\chi^2/\text{NDF}: 114.5/60$

All: 3.055 ± 0.879 $\chi^2/\text{NDF}: 208.8/116$

diff_bpm16X_rms vs Slug, Sign Corrected



Right In: 13161.041 $\pm$ 2.357 χ^2 /NDF: 5045338.8/32

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

Right Out: 14020.808 $\pm$ 2.459 χ^2 /NDF: 4838221.4/35

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

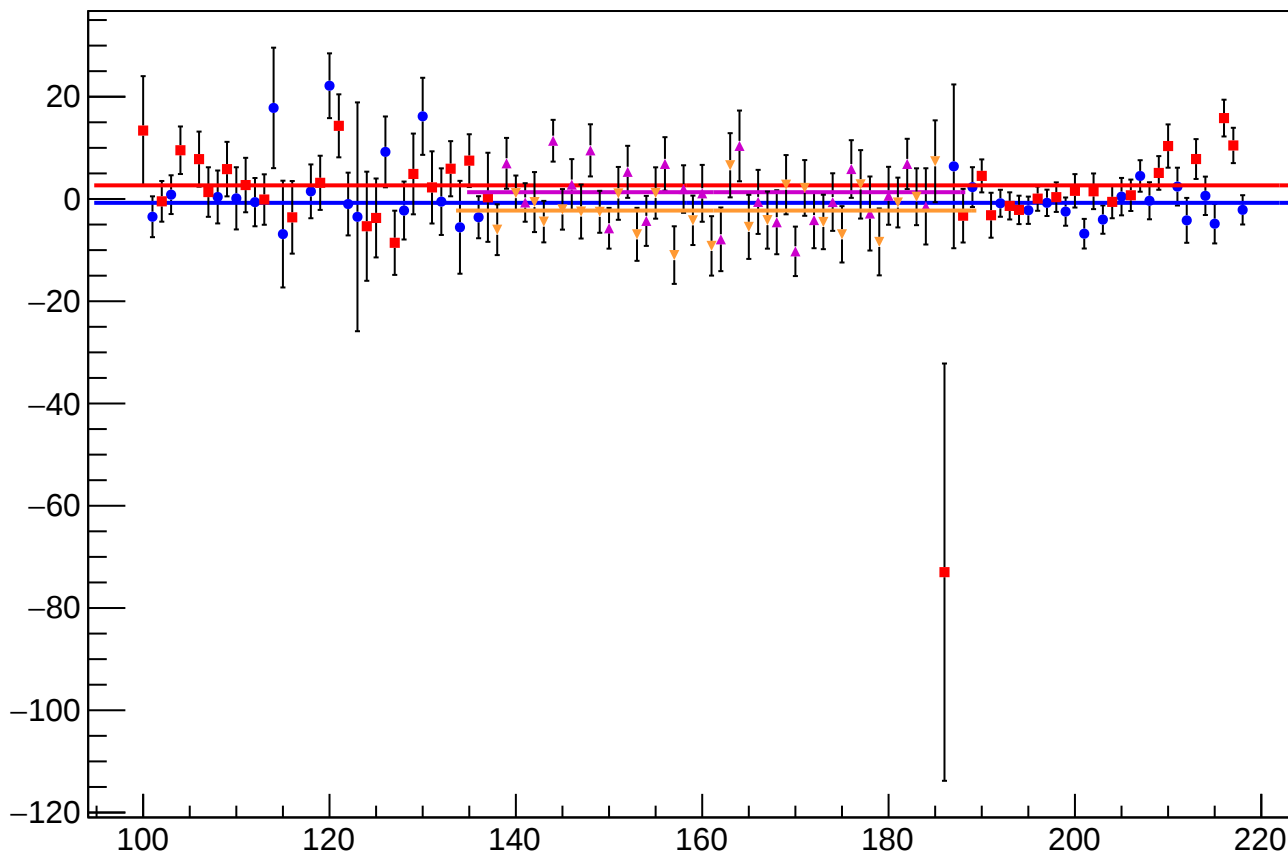
Right: 13572.611 $\pm$ 1.702 χ^2 /NDF: 9947276.1/68

In: 6697.840 $\pm$ 0.889 χ^2 /NDF:14088013.3/55

Out: 6648.787 $\pm$ 0.868 χ^2 /NDF:15387492.8/60

All: 6672.734 $\pm$ 0.621 χ^2 /NDF: 29477064.0/117

diff_bpm16Y_mean vs Slug, Sign Corrected



Right In: -0.754 $\pm$ 0.700 χ^2/NDF : 37.8/32

Left Out: -2.262 $\pm$ 1.030 χ^2/NDF : 15.5/24

Right Out: 2.665 $\pm$ 0.695 χ^2/NDF : 55.3/35

Left In: 1.328 $\pm$ 1.082 χ^2/NDF : 30.6/22

Left: -0.555 $\pm$ 0.746 χ^2/NDF : 51.9/47

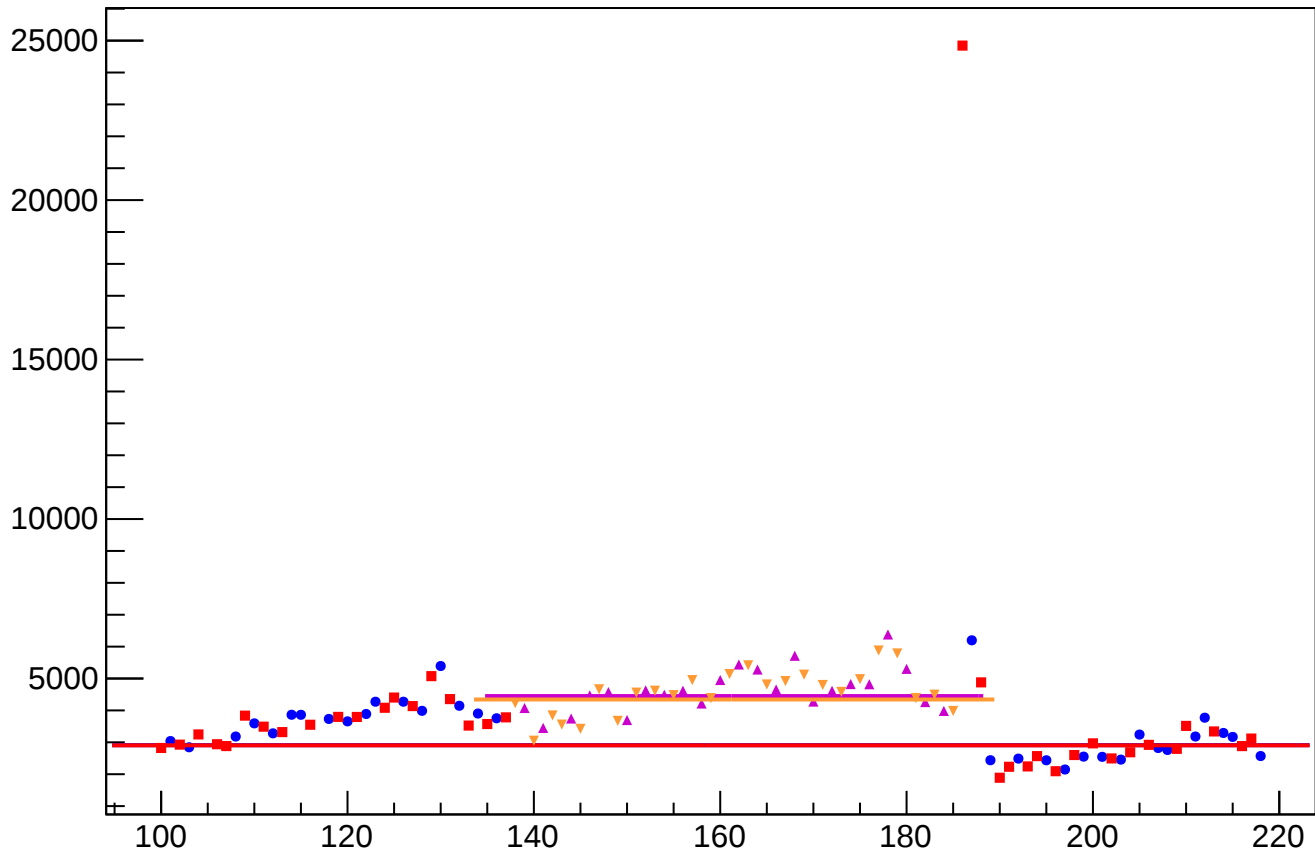
Right: 0.968 $\pm$ 0.493 χ^2/NDF : 105.1/68

In: -0.139 $\pm$ 0.588 χ^2/NDF : 71.1/55

Out: 1.123 $\pm$ 0.576 χ^2/NDF : 86.5/60

All: 0.504 $\pm$ 0.412 χ^2/NDF : 159.9/116

diff_bpm16Y_rms vs Slug, Sign Corrected



Right In: 2910.184+/-0.495 χ^2/NDF : 1446455.1/32

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

Right Out: 2905.036+/-0.492 χ^2/NDF : 2346159.0/35

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

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

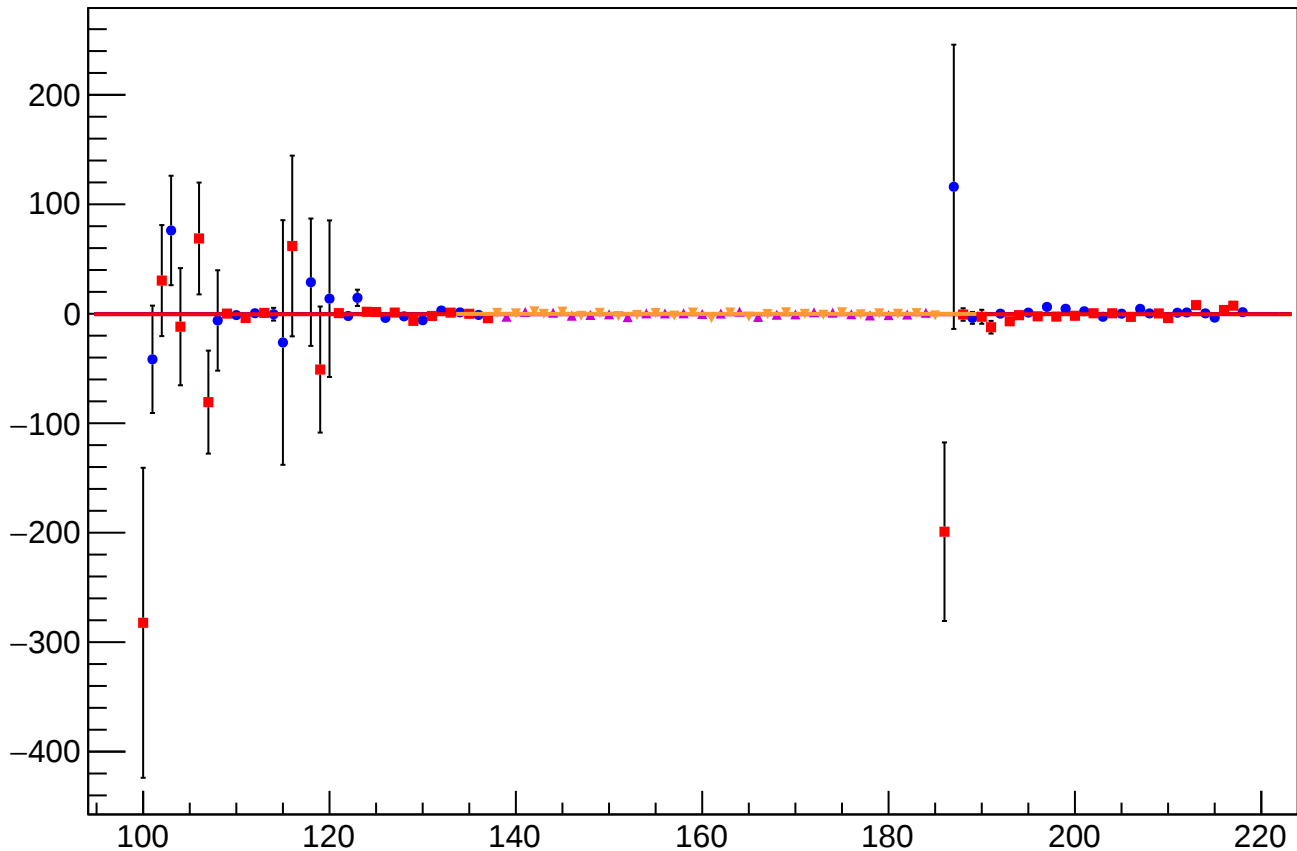
Right: 2907.592+/-0.349 χ^2/NDF : 3792668.5/68

In: 3364.884+/-0.416 χ^2/NDF : 4994107.9/55

Out: 3355.060+/-0.408 χ^2/NDF : 6014921.6/60

All: 3359.874+/-0.291 χ^2/NDF : 11009314.2/111

diff_bpm1p02bX_mean vs Slug, Sign Corrected



Right In: -0.176 ± 0.516 χ^2/NDF : 34.4/32

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

Right Out: -0.421 ± 0.523 χ^2/NDF : 59.8/35

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

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

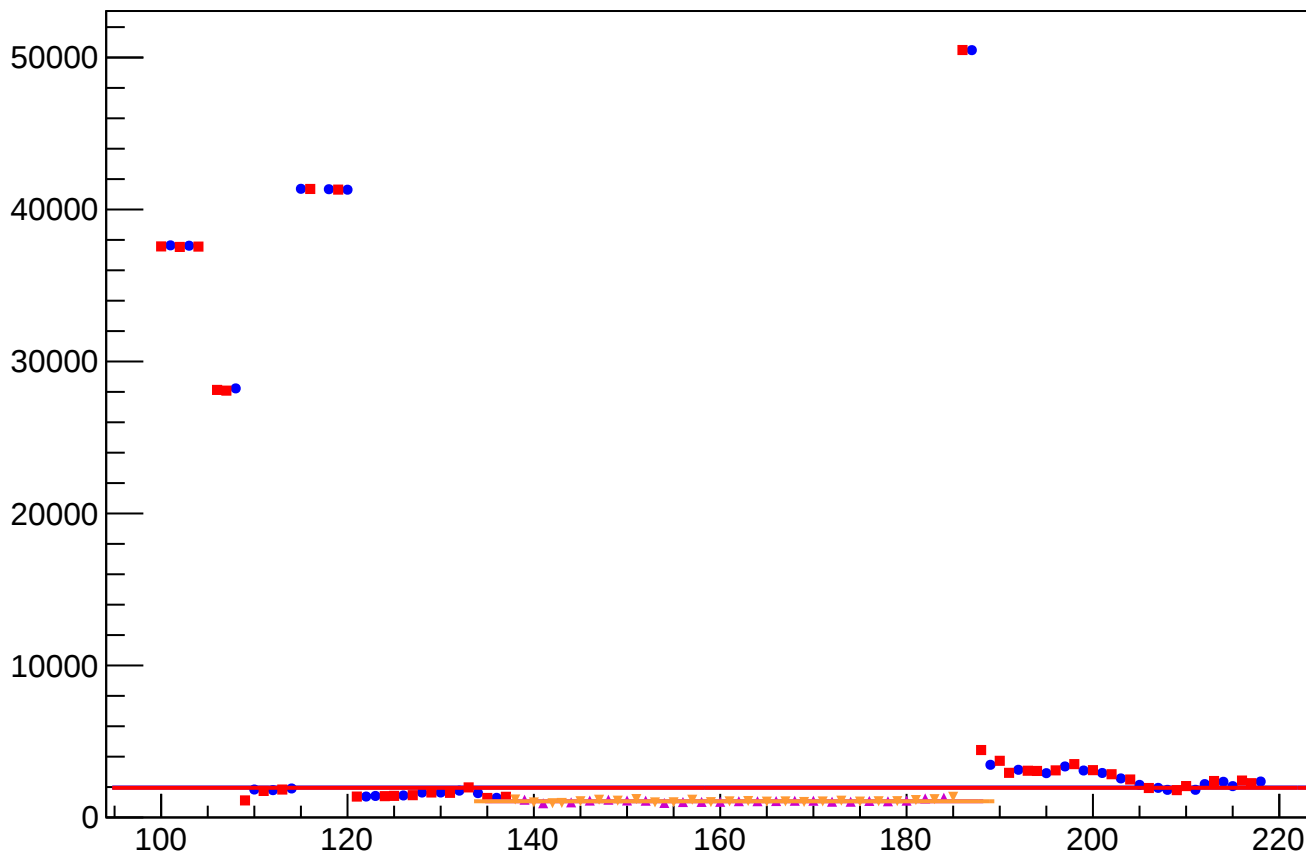
Right: -0.297 ± 0.367 χ^2/NDF : 94.3/68

In: -0.243 ± 0.230 χ^2/NDF : 61.6/55

Out: -0.153 ± 0.225 χ^2/NDF : 94.6/60

All: -0.197 ± 0.161 χ^2/NDF : 156.3/116

diff_bpm1p02bX_rms vs Slug, Sign Corrected



Right In: 1968.268+/-0.365

χ^2/NDF : 7049596.5/32

Left Out: 1064.701+/-0.176

χ^2/NDF : 186511.5/24

Right Out: 1951.418+/-0.370

χ^2/NDF : 8499127.3/35

Left In: 1066.255+/-0.182

χ^2/NDF : 164232.1/22

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

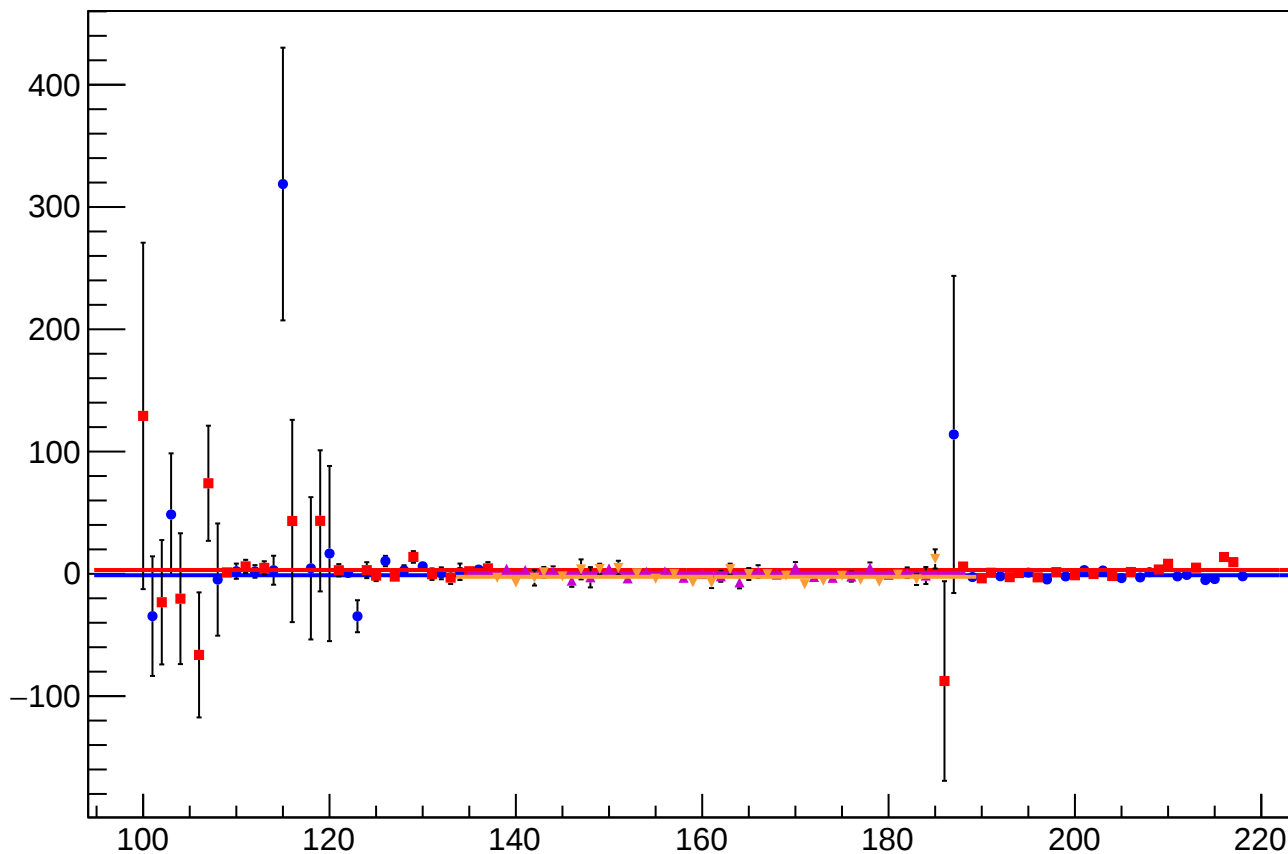
Right: 1959.953+/-0.260 χ^2/NDF : 15549776.4/68

In: 1245.518+/-0.163 χ^2/NDF : 12111471.5/55

Out: 1228.743+/-0.159 χ^2/NDF : 13376120.5/60

All: 1236.939+/-0.114 χ^2/NDF : 25493032.3/117

diff_bpm1p02bY_mean vs Slug, Sign Corrected



Right In: -1.148 ± 0.439 χ^2/NDF : 61.6/32

Left Out: -2.422 ± 0.811 χ^2/NDF : 21.2/24

Right Out: 3.133 ± 0.465 χ^2/NDF : 110.5/35

Left In: 0.468 ± 0.843 χ^2/NDF : 15.5/22

Left: -1.033 ± 0.584 χ^2/NDF : 42.8/47

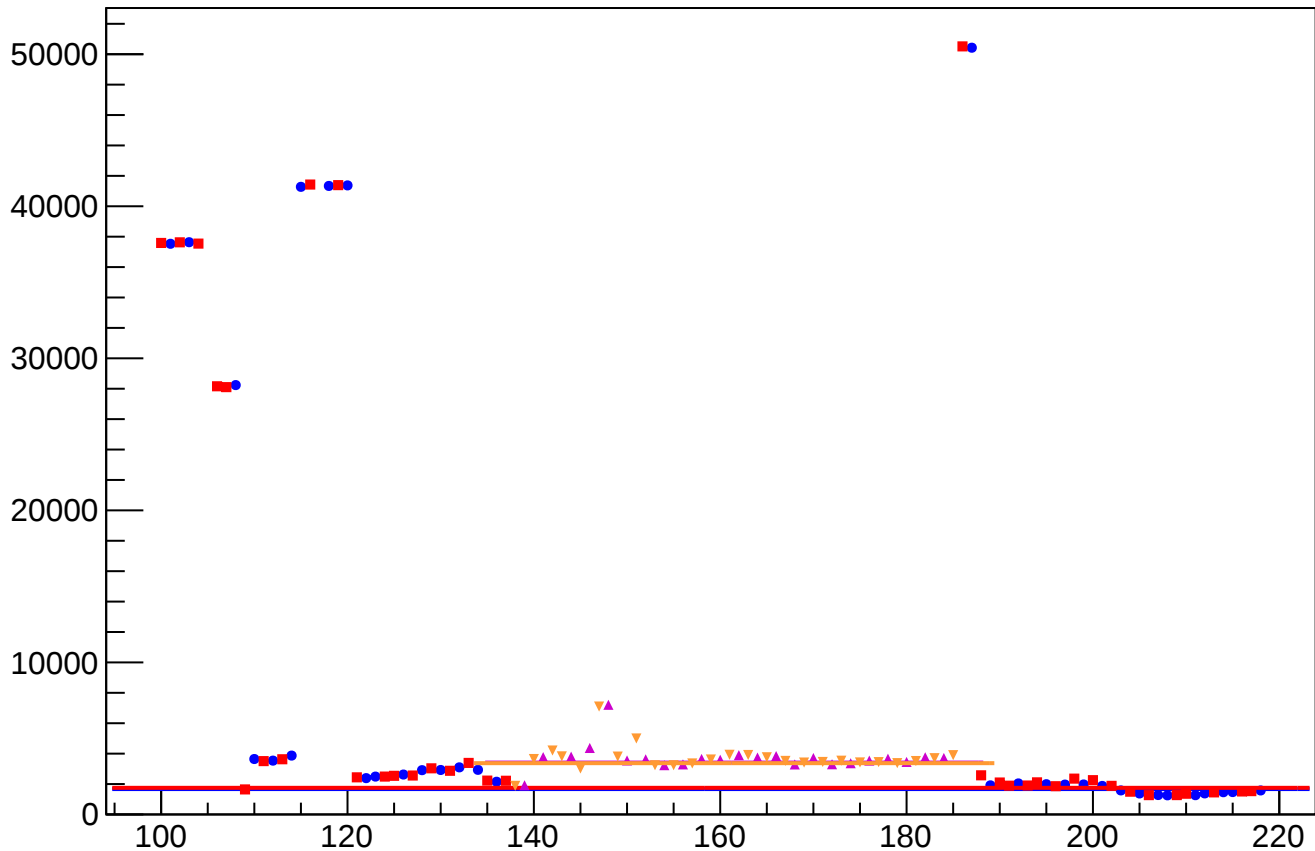
Right: 0.872 ± 0.319 χ^2/NDF : 217.0/68

In: -0.803 ± 0.389 χ^2/NDF : 80.0/55

Out: 1.760 ± 0.403 χ^2/NDF : 167.1/60

All: 0.434 ± 0.280 χ^2/NDF : 268.0/116

diff_bpm1p02bY_rms vs Slug, Sign Corrected



Right In: 1670.105 ± 0.310 χ^2/NDF : 7110714.8/32

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

Right Out: 1751.469 ± 0.328 χ^2/NDF : 7615494.8/35

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

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

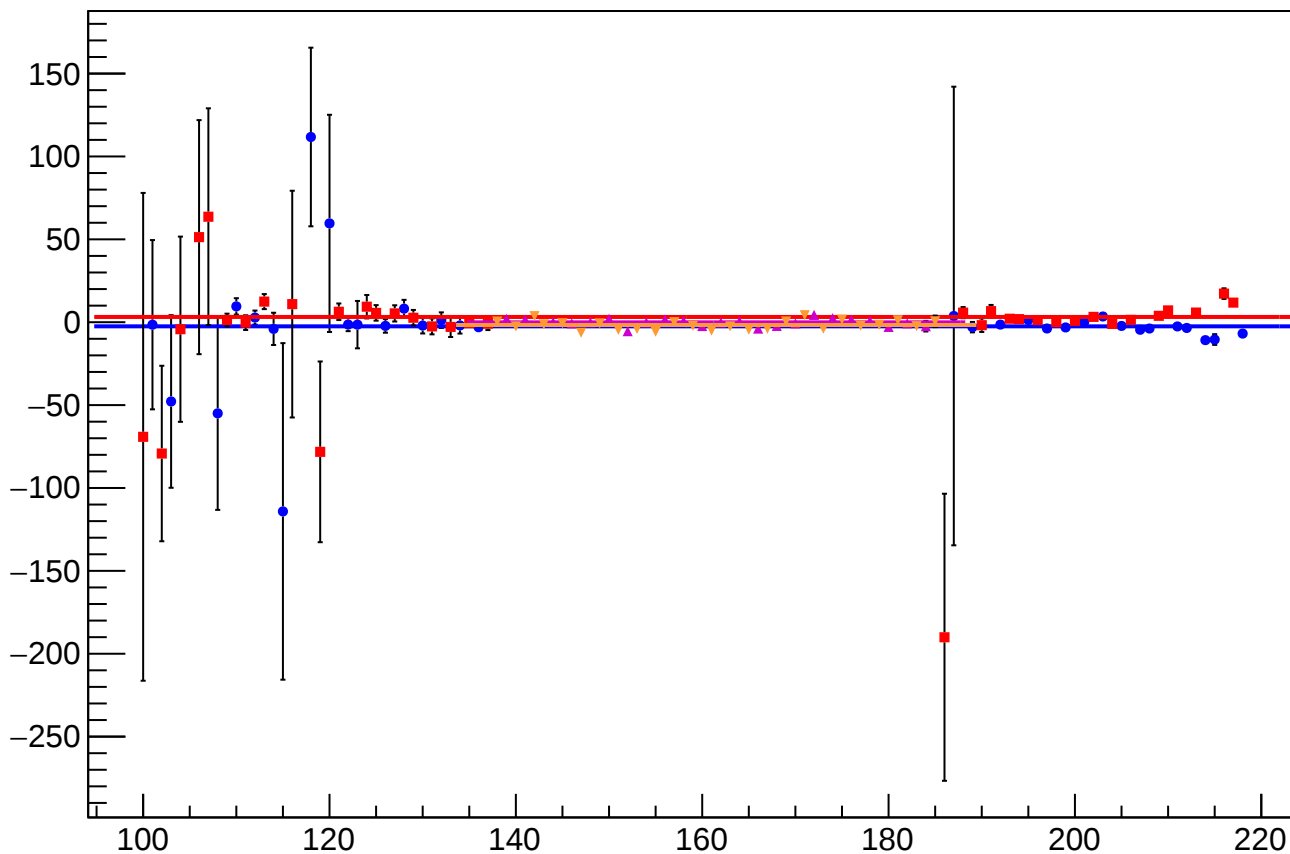
Right: 1708.490 ± 0.226 χ^2/NDF : 14758623.7/68

In: 2041.778 ± 0.275 χ^2/NDF : 15264104.8/55

Out: 2152.346 ± 0.285 χ^2/NDF : 15297528.7/60

All: 2095.154 ± 0.198 χ^2/NDF : 30639498.8/100

diff_bpm1p03aX_mean vs Slug, Sign Corrected



Right In: -2.483 ± 0.554 $\chi^2/\text{NDF}: 51.2/32$

Left Out: -1.672 ± 0.388 $\chi^2/\text{NDF}: 45.7/24$

Right Out: 3.178 ± 0.577 $\chi^2/\text{NDF}: 64.9/35$

Left In: -0.072 ± 0.401 $\chi^2/\text{NDF}: 28.2/22$

Left: -0.898 ± 0.279 $\chi^2/\text{NDF}: 82.1/47$

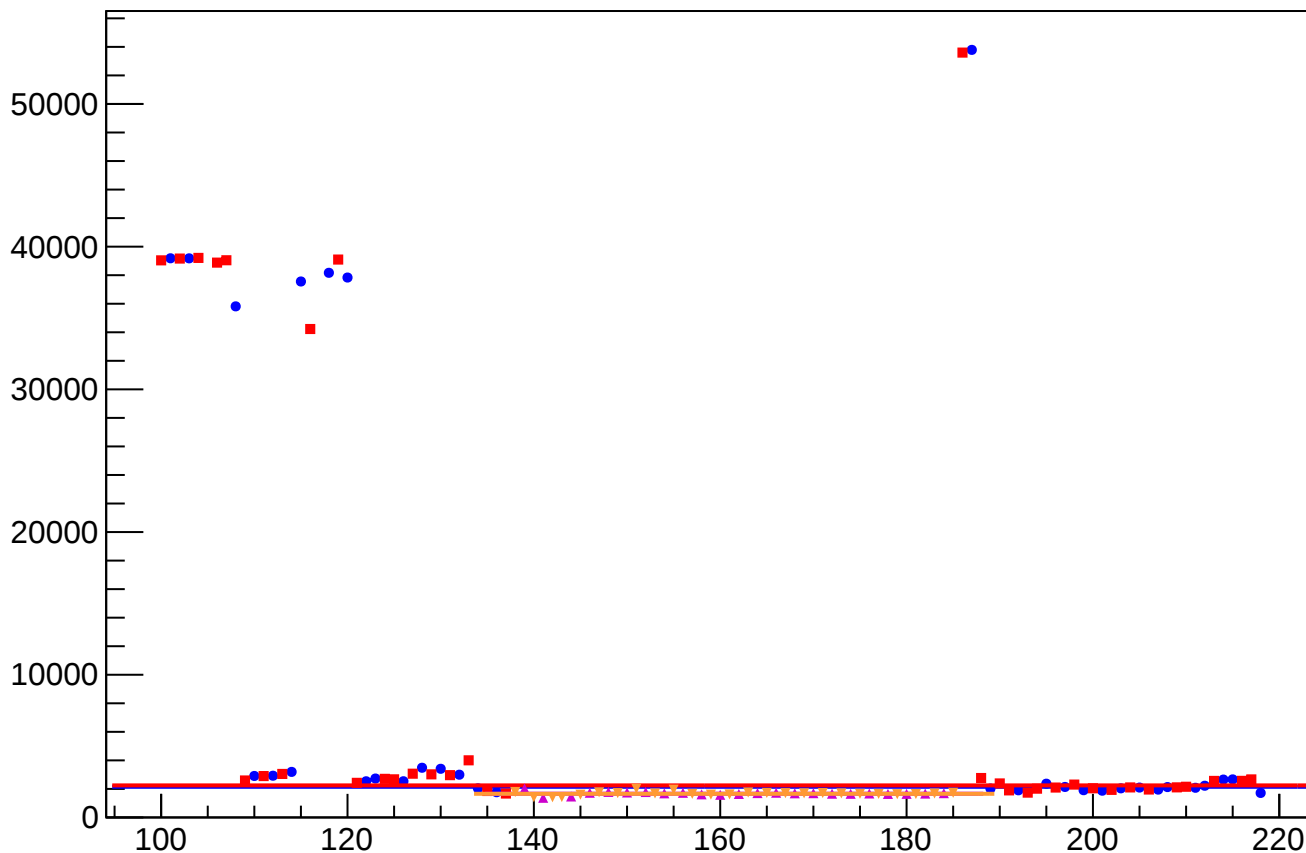
Right: 0.231 ± 0.399 $\chi^2/\text{NDF}: 166.2/68$

In: -0.901 ± 0.325 $\chi^2/\text{NDF}: 91.8/55$

Out: -0.161 ± 0.322 $\chi^2/\text{NDF}: 159.2/60$

All: -0.528 ± 0.229 $\chi^2/\text{NDF}: 253.7/116$

diff_bpm1p03aX_rms vs Slug, Sign Corrected



Right In: 2148.800+/-0.392 χ^2 /NDF: 5657820.8/32

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

Right Out: 2247.045+/-0.408 χ^2 /NDF: 6158867.8/35

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

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

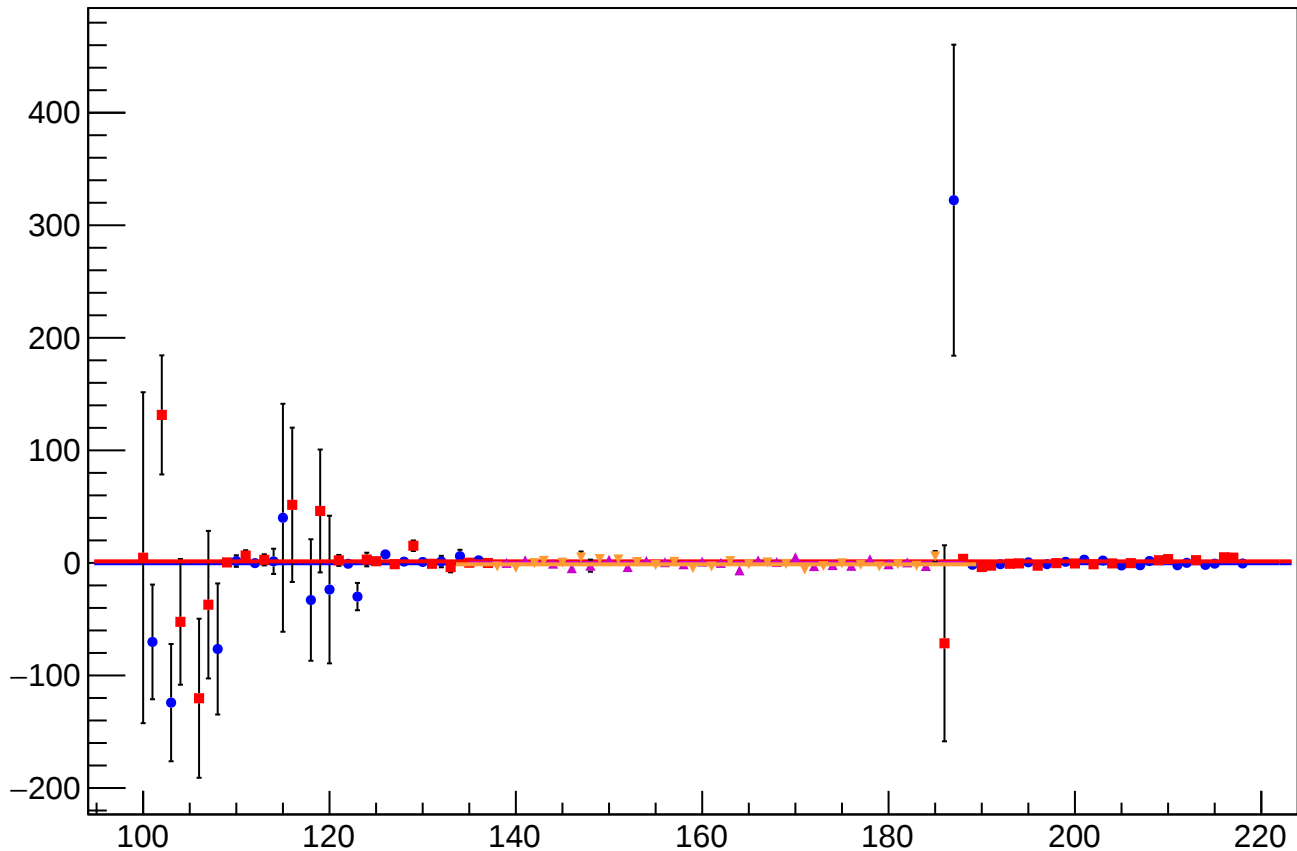
Right: 2195.912+/-0.282 χ^2 /NDF: 11846881.6/68

In: 1830.566+/-0.230 χ^2 /NDF: 6843863.9/55

Out: 1841.370+/-0.228 χ^2 /NDF: 7819113.8/60

All: 1836.015+/-0.162 χ^2 /NDF: 14664093.9/117

diff_bpm1p03aY_mean vs Slug, Sign Corrected



Right In: -0.281 ± 0.370 $\chi^2/\text{NDF}: 45.1/32$

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

Right Out: 1.380 ± 0.380 $\chi^2/\text{NDF}: 63.6/35$

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

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

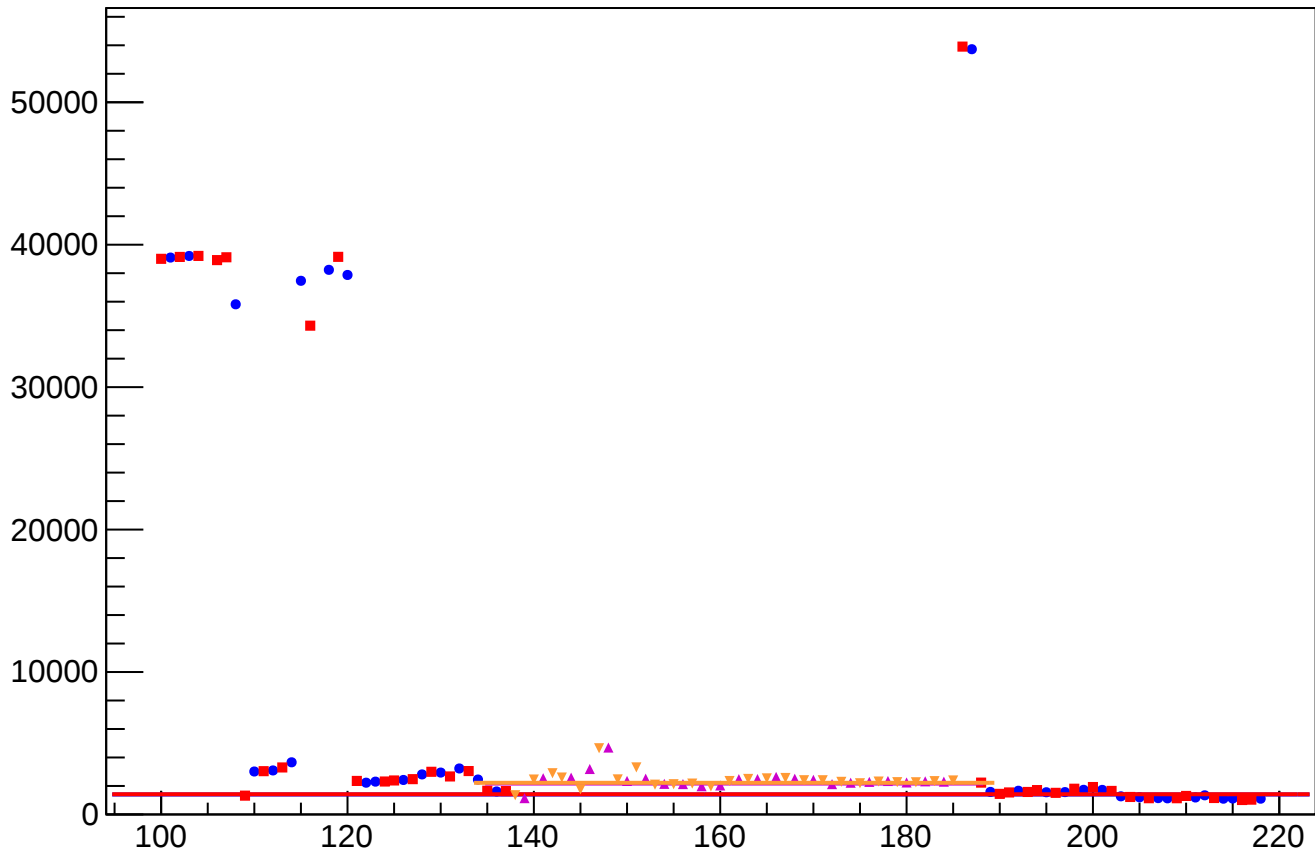
Right: 0.527 ± 0.265 $\chi^2/\text{NDF}: 118.6/68$

In: -0.222 ± 0.305 $\chi^2/\text{NDF}: 64.5/55$

Out: 0.498 ± 0.310 $\chi^2/\text{NDF}: 101.4/60$

All: 0.132 ± 0.217 $\chi^2/\text{NDF}: 168.7/116$

diff_bpm1p03aY_rms vs Slug, Sign Corrected



Right In: 1399.268 $\pm$ 0.262 χ^2 /NDF: 7407104.6/32

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

Right Out: 1419.041 $\pm$ 0.269 χ^2 /NDF: 8168196.6/35

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

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

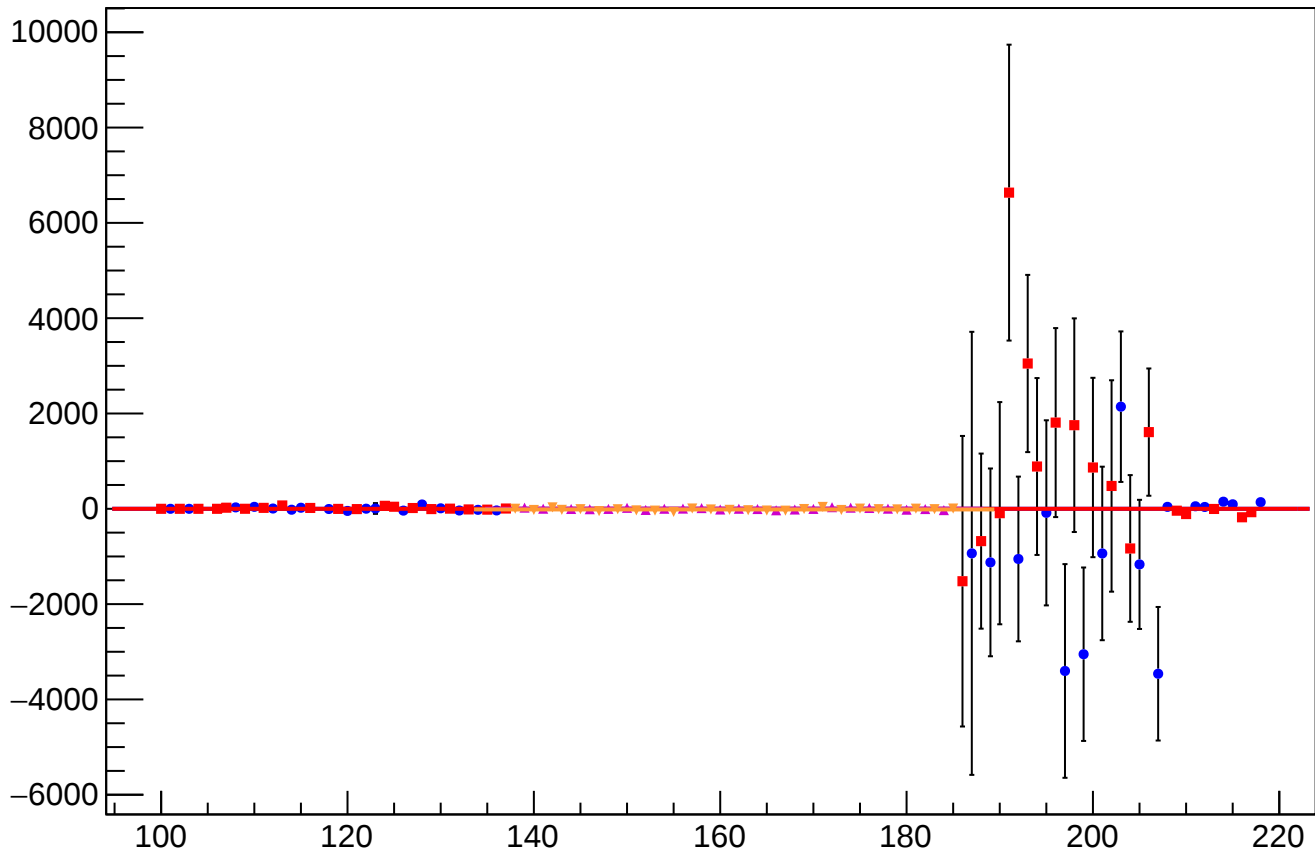
Right: 1408.885 $\pm$ 0.187 χ^2 /NDF: 15578081.8/68

In: 1644.415 $\pm$ 0.216 χ^2 /NDF:12142906.9/55

Out: 1688.322 $\pm$ 0.219 χ^2 /NDF:12585238.0/60

All: 1666.048 $\pm$ 0.154 χ^2 /NDF: 24748520.0/122

diff_cav4bX_mean vs Slug, Sign Corrected



Right In: 0.013 ± 0.017 $\chi^2/\text{NDF}: 57.3/32$

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

Right Out: -0.003 ± 0.016 $\chi^2/\text{NDF}: 48.0/35$

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

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

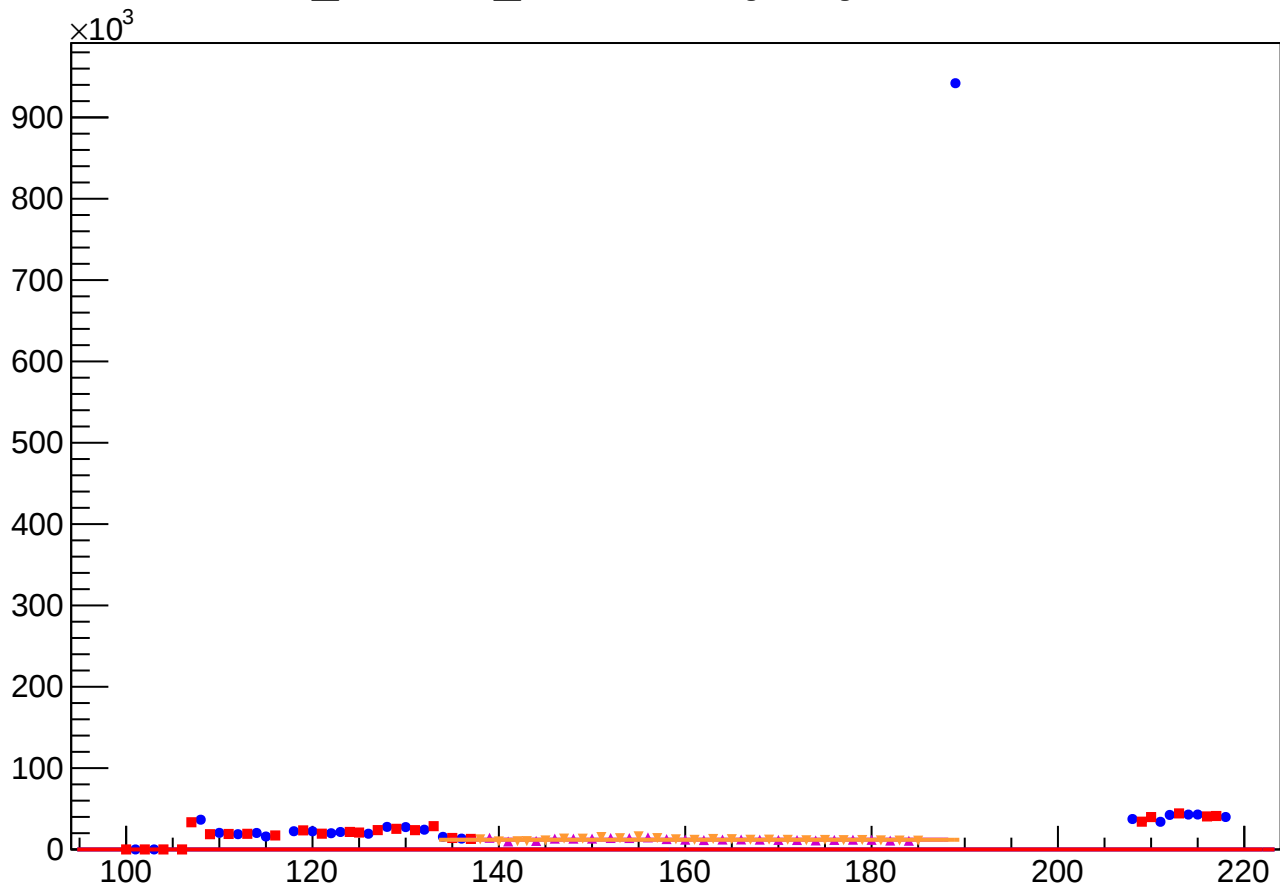
Right: 0.004 ± 0.012 $\chi^2/\text{NDF}: 105.8/68$

In: 0.013 ± 0.017 $\chi^2/\text{NDF}: 86.3/55$

Out: -0.004 ± 0.016 $\chi^2/\text{NDF}: 129.8/60$

All: 0.004 ± 0.012 $\chi^2/\text{NDF}: 216.6/116$

diff_cav4bX_rms vs Slug, Sign Corrected



Right In: 18.674+/-0.012 χ^2/NDF : 19820873.6/23

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

Right Out: 18.335+/-0.011 χ^2/NDF : 18295128.7/23

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

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

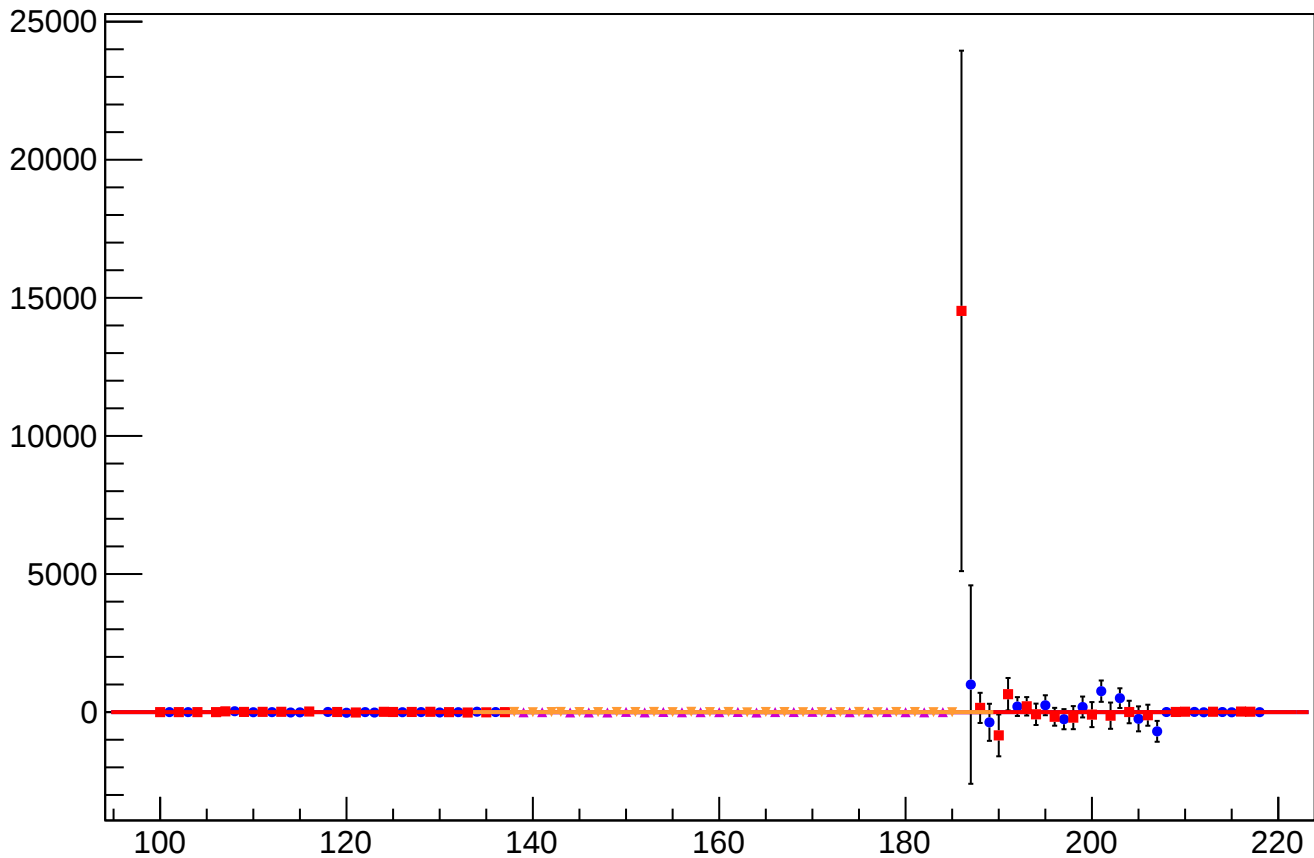
Right: 18.492+/-0.008 χ^2/NDF : 38116415.1/47

In: 19.100+/-0.012 χ^2/NDF : 54303005.6/46

Out: 18.726+/-0.011 χ^2/NDF : 54836831.9/48

All: 18.899+/-0.008 χ^2/NDF : 109140336.4/95

diff_cav4bY_mean vs Slug, Sign Corrected



Right In: 0.001 $\pm$ 0.009 χ^2 /NDF: 27.6/32

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

Right Out: -0.014 $\pm$ 0.009 χ^2 /NDF: 49.8/35

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

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

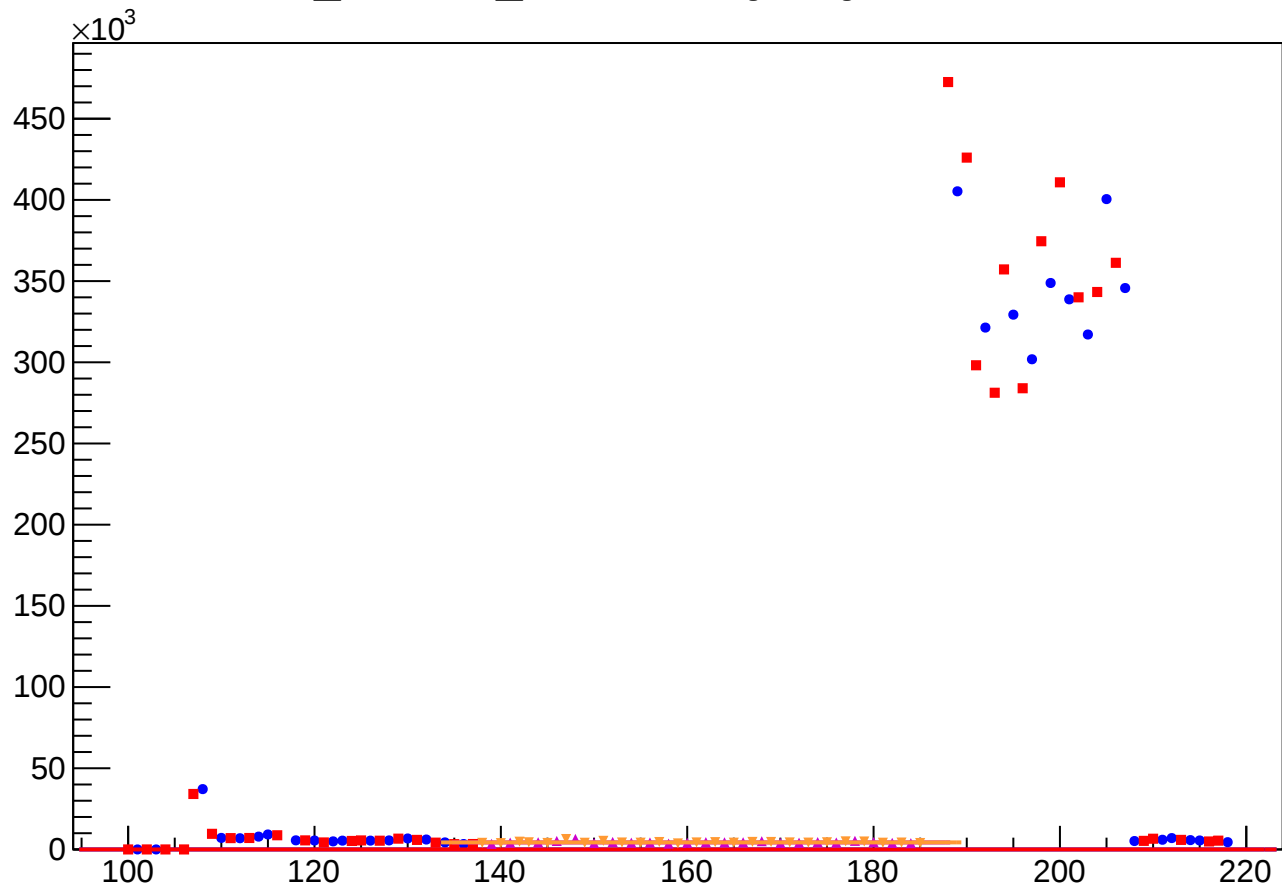
Right: -0.007 $\pm$ 0.006 χ^2 /NDF: 78.8/68

In: 0.001 $\pm$ 0.009 χ^2 /NDF:64.0/55

Out: -0.014 $\pm$ 0.009 χ^2 /NDF:70.8/60

All: -0.007 $\pm$ 0.006 χ^2 /NDF: 136.2/116

diff_cav4bY_rms vs Slug, Sign Corrected



Right In: 10.006 $\pm$ 0.007 χ^2 /NDF: 33224042.6/31

Left Out: 4349.005 $\pm$ 0.723 χ^2 /NDF:383895.7/24

Right Out: 9.904 $\pm$ 0.006 χ^2 /NDF: 33061078.7/34

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

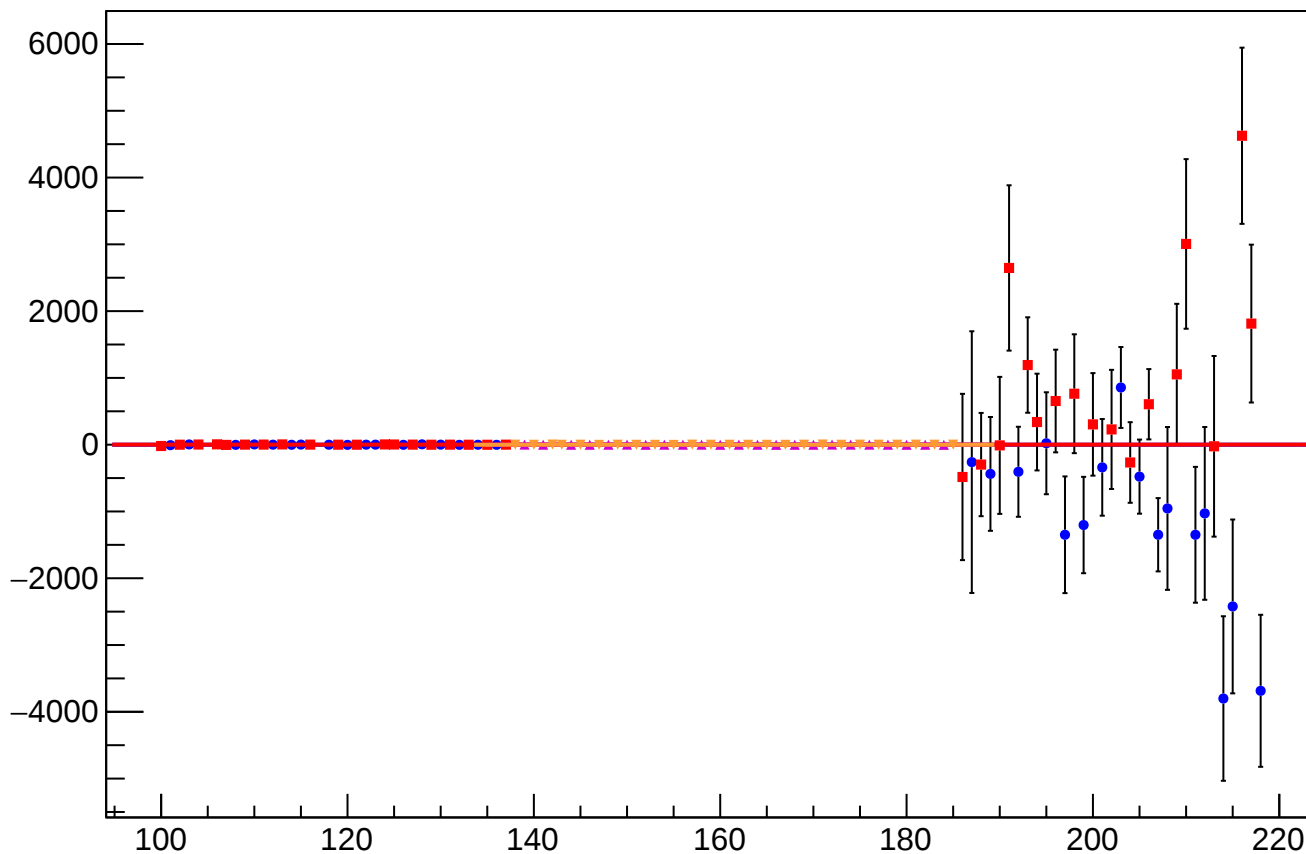
Right: 9.952 $\pm$ 0.004 χ^2 /NDF: 66285252.4/66

In: 10.338 $\pm$ 0.007 χ^2 /NDF:67554736.5/54

Out: 10.215 $\pm$ 0.006 χ^2 /NDF:69489428.3/59

All: 10.272 $\pm$ 0.004 χ^2 /NDF: 137044355.9/119

diff_cav4cX_mean vs Slug, Sign Corrected



Right In: -0.718 ± 0.483 χ^2/NDF : 64.0/32

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

Right Out: 0.642 ± 0.501 χ^2/NDF : 45.4/35

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

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

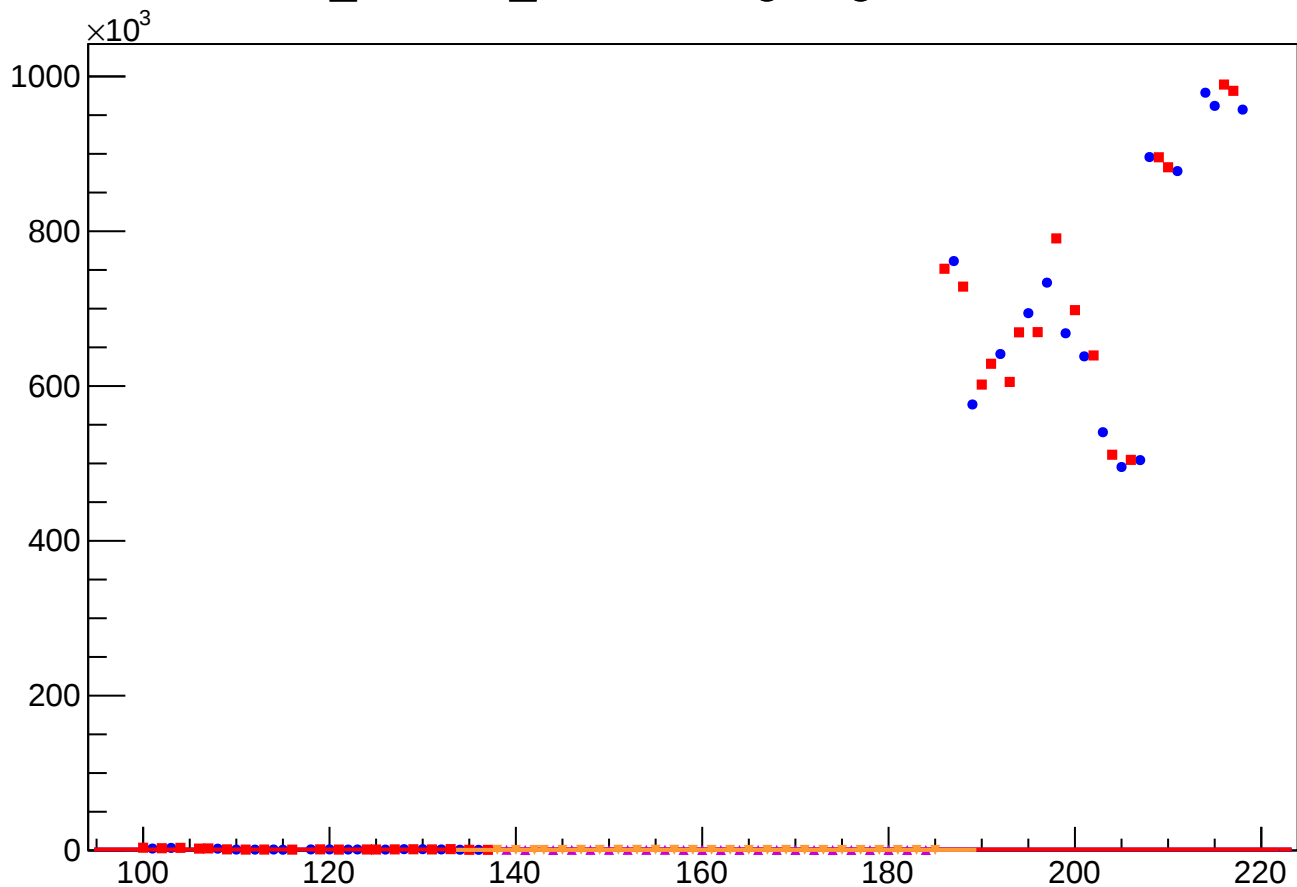
Right: -0.063 ± 0.348 χ^2/NDF : 113.1/68

In: -0.063 ± 0.161 χ^2/NDF : 95.5/55

Out: -0.637 ± 0.156 χ^2/NDF : 111.1/60

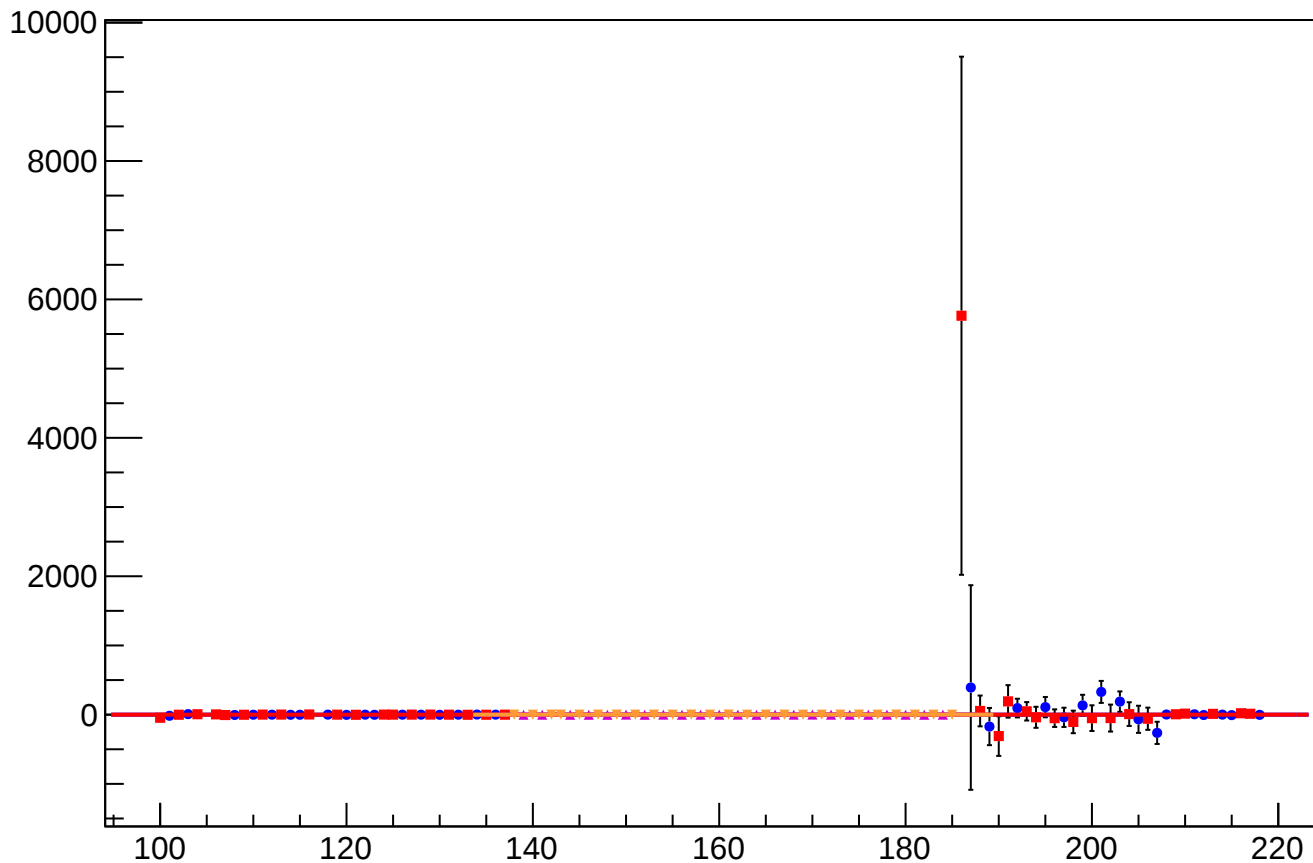
All: -0.359 ± 0.112 χ^2/NDF : 213.1/116

diff_cav4cX_rms vs Slug, Sign Corrected



Right In: 1170.295 $\pm$ 0.342 χ^2/NDF : 19030163.2/31
 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: 1209.283 $\pm$ 0.246 χ^2/NDF : 38299653.9/66
 Right Out: 1251.290 $\pm$ 0.355 χ^2/NDF : 19242431.7/34
 In: 758.435 $\pm$ 0.114 χ^2/NDF : 20997302.8/54
 Left In: 706.971 $\pm$ 0.121 χ^2/NDF : 332011.4/22
 Out: 754.491 $\pm$ 0.111 χ^2/NDF : 21809552.6/59
 All: 756.405 $\pm$ 0.079 χ^2/NDF : 42807472.9/11

diff_cav4cY_mean vs Slug, Sign Corrected



Right In: -0.072 ± 0.267 χ^2/NDF : 33.8/32

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

Right Out: -0.126 ± 0.263 χ^2/NDF : 59.1/35

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

Left: 0.059 ± 0.088 χ^2/NDF : 57.1/47

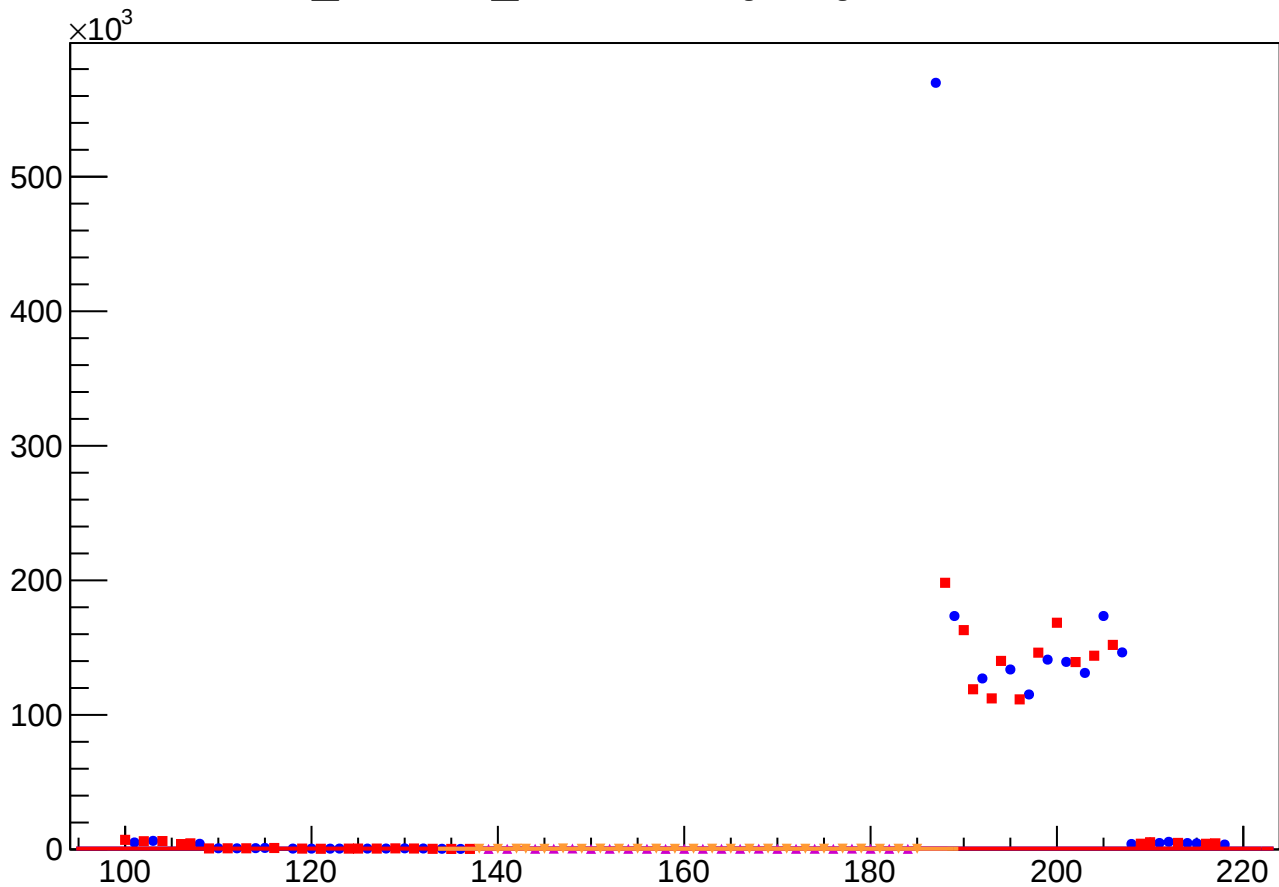
Right: -0.099 ± 0.187 χ^2/NDF : 92.9/68

In: -0.116 ± 0.114 χ^2/NDF : 68.8/55

Out: 0.169 ± 0.111 χ^2/NDF : 78.6/60

All: 0.030 ± 0.080 χ^2/NDF : 150.6/116

diff_cav4cY_rms vs Slug, Sign Corrected



Right In: 671.503+/-0.189 χ^2/NDF : 23324666.8/32

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

Right Out: 649.217+/-0.186 χ^2/NDF : 23714179.4/34

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

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

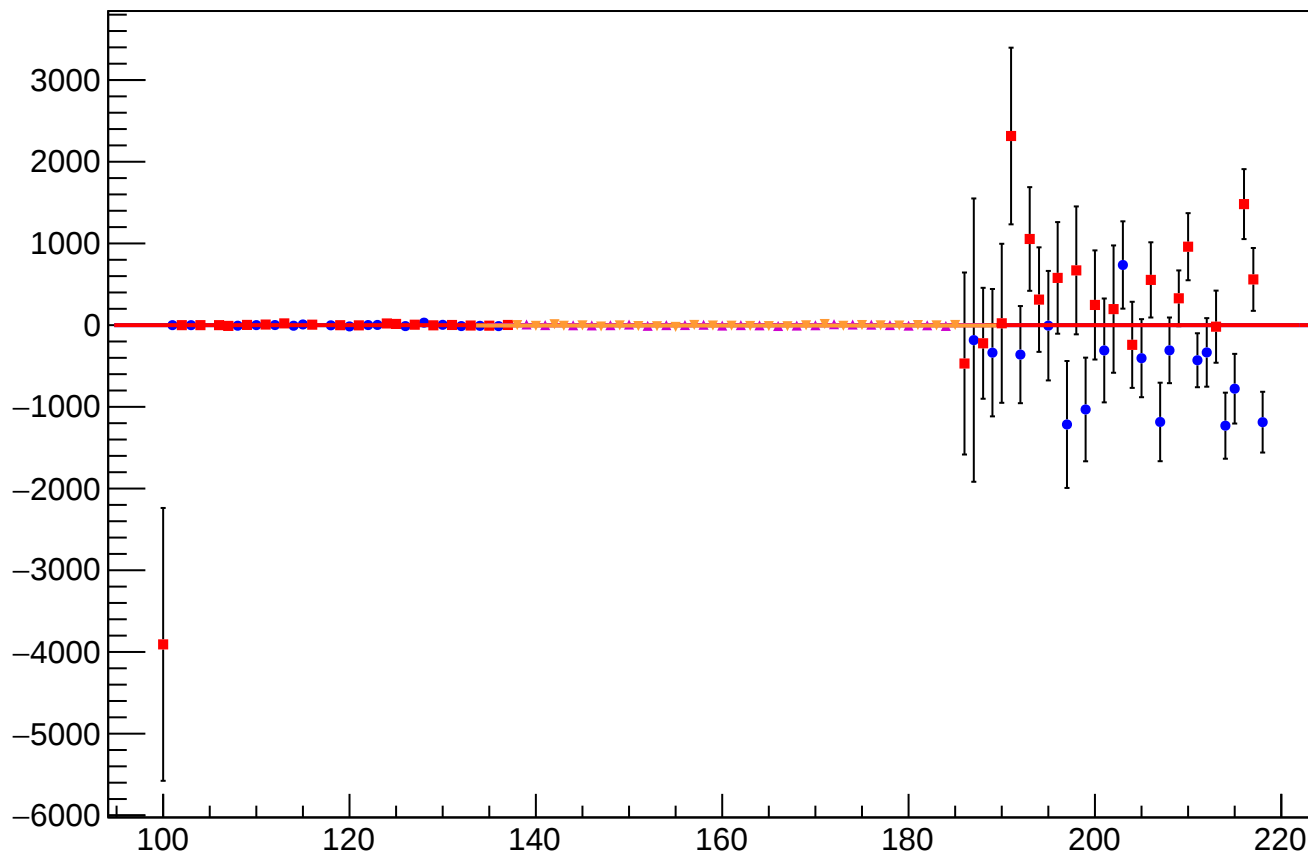
Right: 660.189+/-0.132 χ^2/NDF : 47045924.7/67

In: 548.233+/-0.081 χ^2/NDF : 24274249.4/55

Out: 544.912+/-0.079 χ^2/NDF : 24428013.2/59

All: 546.529+/-0.056 χ^2/NDF : 48703132.4/11

diff_cav4dX_mean vs Slug, Sign Corrected



Right In: -0.022 ± 0.021 $\chi^2/\text{NDF}: 56.3/32$

Left Out: -4.480 ± 0.957 $\chi^2/\text{NDF}: 58.4/24$

Right Out: 0.027 ± 0.020 $\chi^2/\text{NDF}: 49.1/35$

Left In: 0.183 ± 0.994 $\chi^2/\text{NDF}: 29.5/22$

Left: -2.236 ± 0.689 $\chi^2/\text{NDF}: 99.3/47$

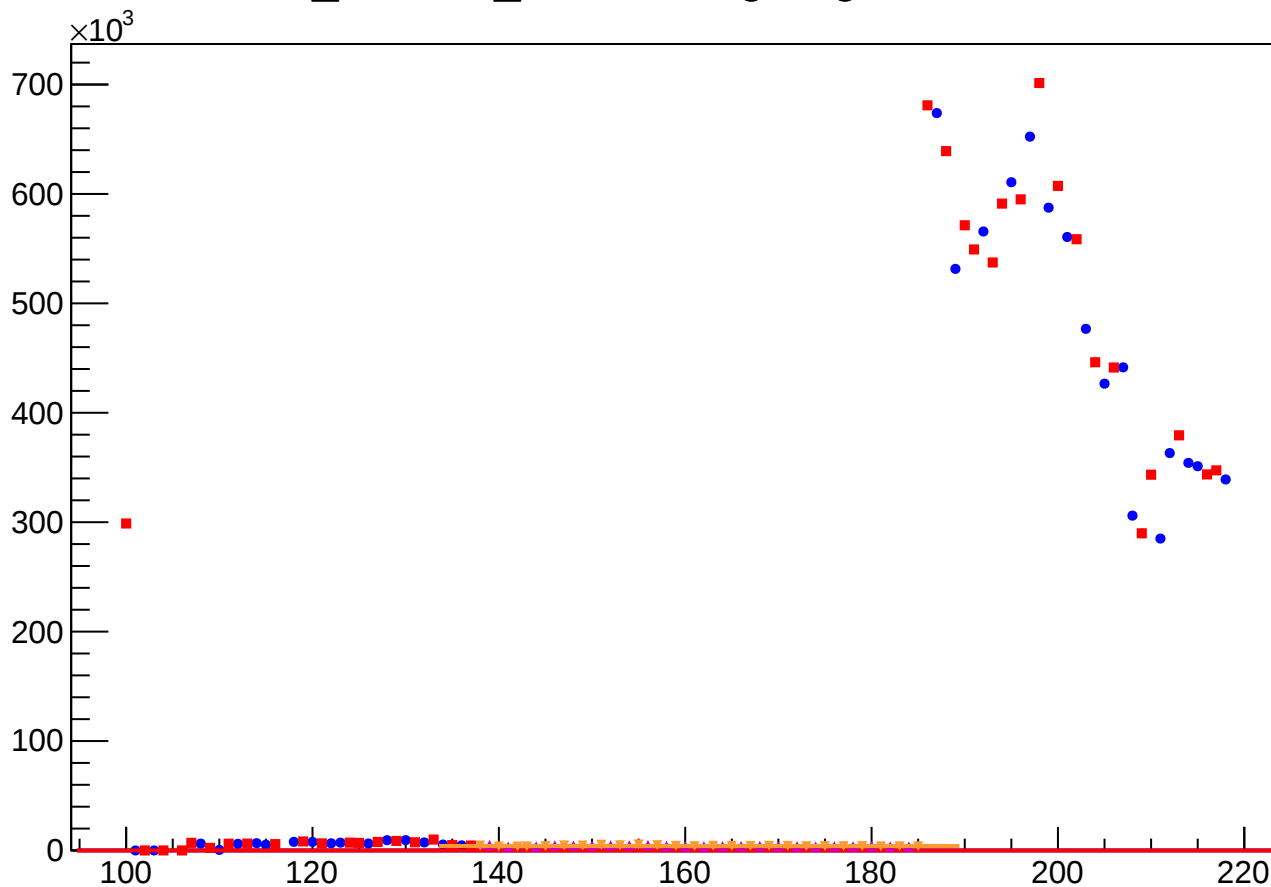
Right: 0.004 ± 0.014 $\chi^2/\text{NDF}: 108.2/68$

In: -0.022 ± 0.021 $\chi^2/\text{NDF}: 85.8/55$

Out: 0.025 ± 0.020 $\chi^2/\text{NDF}: 129.7/60$

All: 0.003 ± 0.014 $\chi^2/\text{NDF}: 218.1/116$

diff_cav4dX_rms vs Slug, Sign Corrected



Right In: 17.351+/-0.015 χ^2/NDF : 33419460.6/32

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

Right Out: 17.277+/-0.014 χ^2/NDF : 33928473.2/35

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

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

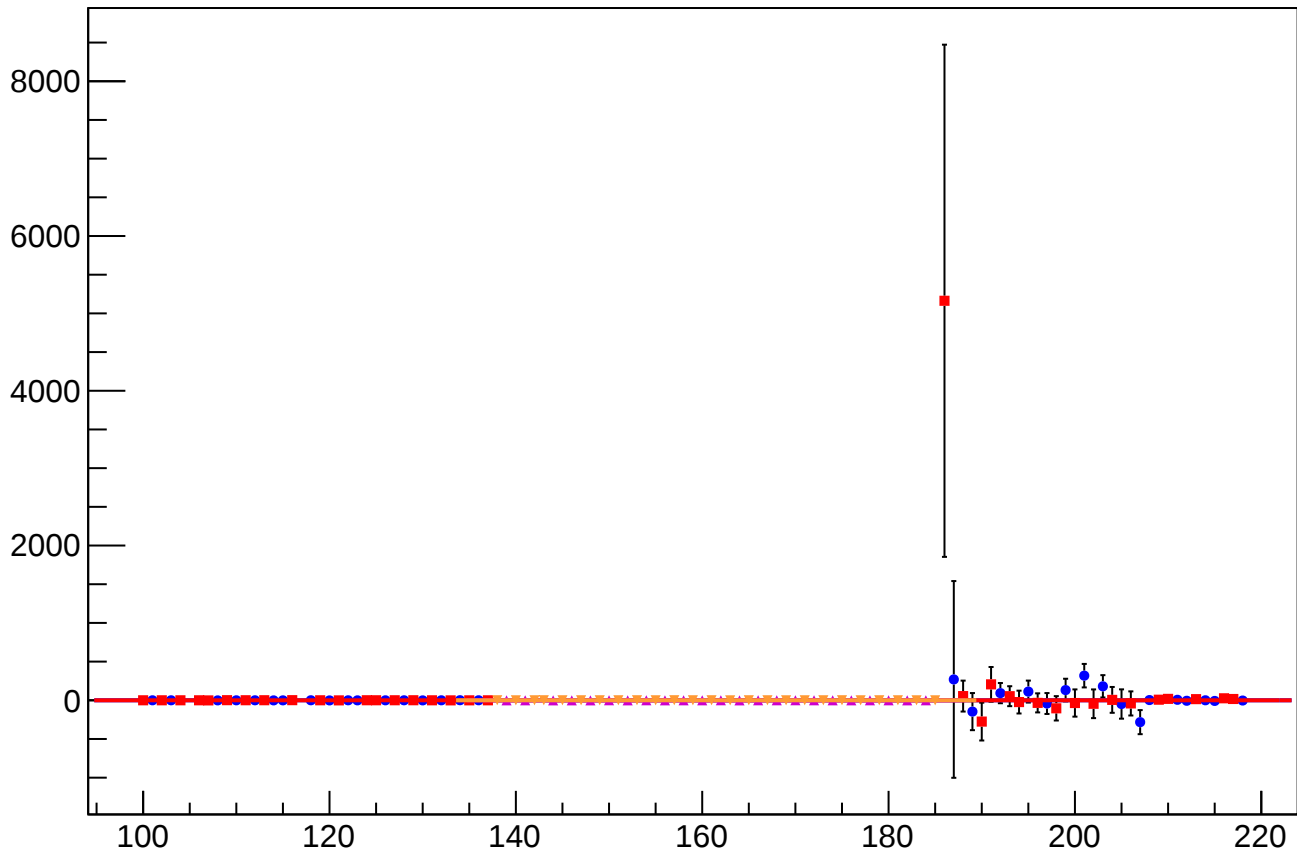
Right: 17.312+/-0.010 χ^2/NDF : 67347946.9/68

In: 19.143+/-0.015 χ^2/NDF : 67721807.0/55

Out: 19.009+/-0.014 χ^2/NDF : 70281359.3/60

All: 19.072+/-0.010 χ^2/NDF : 138003209.7/11

diff_cav4dY_mean vs Slug, Sign Corrected



Right In: 0.000 ± 0.002 $\chi^2/\text{NDF}: 29.0/32$

Left Out: 0.148 ± 0.076 $\chi^2/\text{NDF}: 17.3/24$

Right Out: -0.001 ± 0.002 $\chi^2/\text{NDF}: 59.4/35$

Left In: -0.080 ± 0.079 $\chi^2/\text{NDF}: 34.6/22$

Left: 0.038 ± 0.055 $\chi^2/\text{NDF}: 56.3/47$

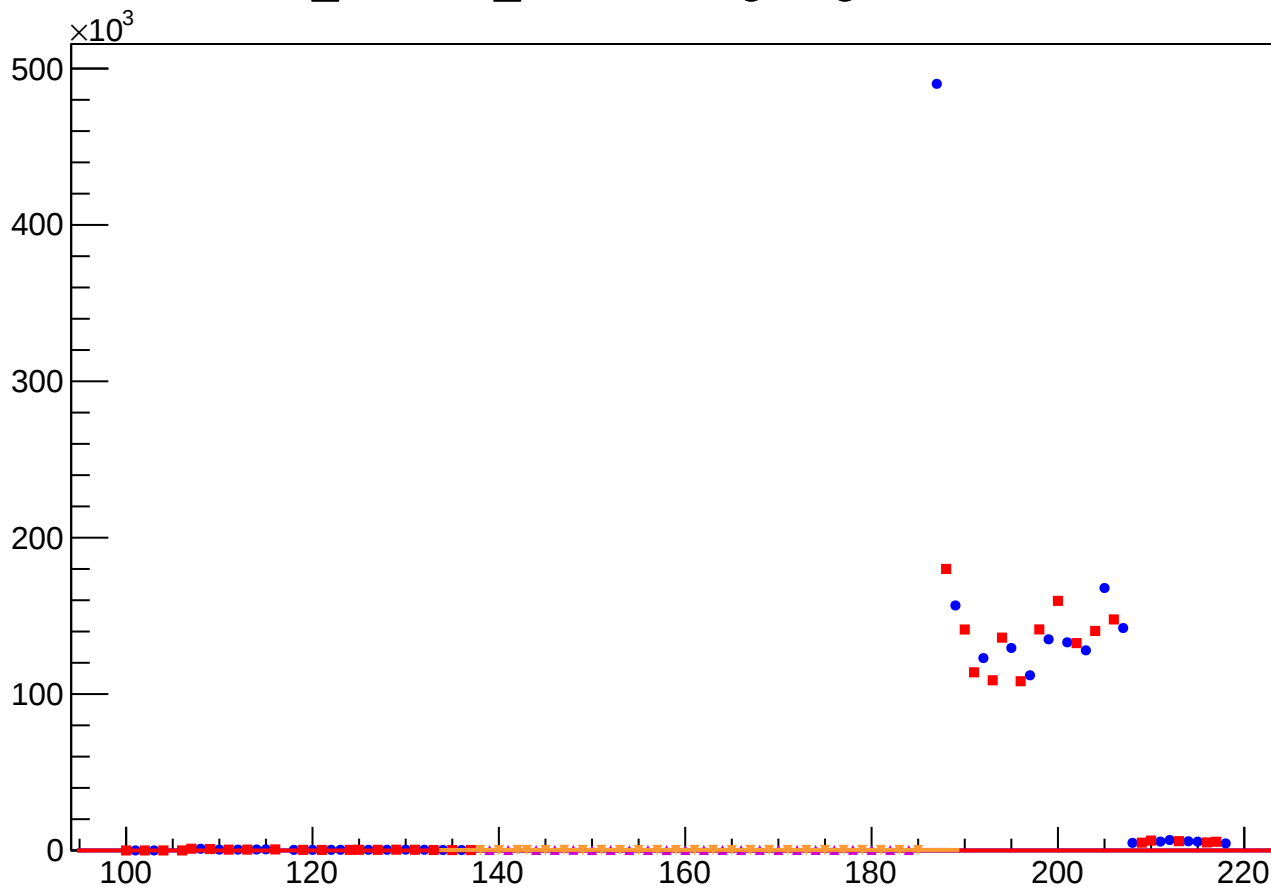
Right: -0.000 ± 0.001 $\chi^2/\text{NDF}: 88.5/68$

In: 0.000 ± 0.002 $\chi^2/\text{NDF}: 64.7/55$

Out: -0.001 ± 0.002 $\chi^2/\text{NDF}: 80.5/60$

All: -0.000 ± 0.001 $\chi^2/\text{NDF}: 145.3/116$

diff_cav4dY_rms vs Slug, Sign Corrected



Right In: 1.702 $\pm$ 0.001 χ^2 /NDF: 33617984.4/32

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

Right Out: 1.731 $\pm$ 0.001 χ^2 /NDF: 32858434.4/34

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

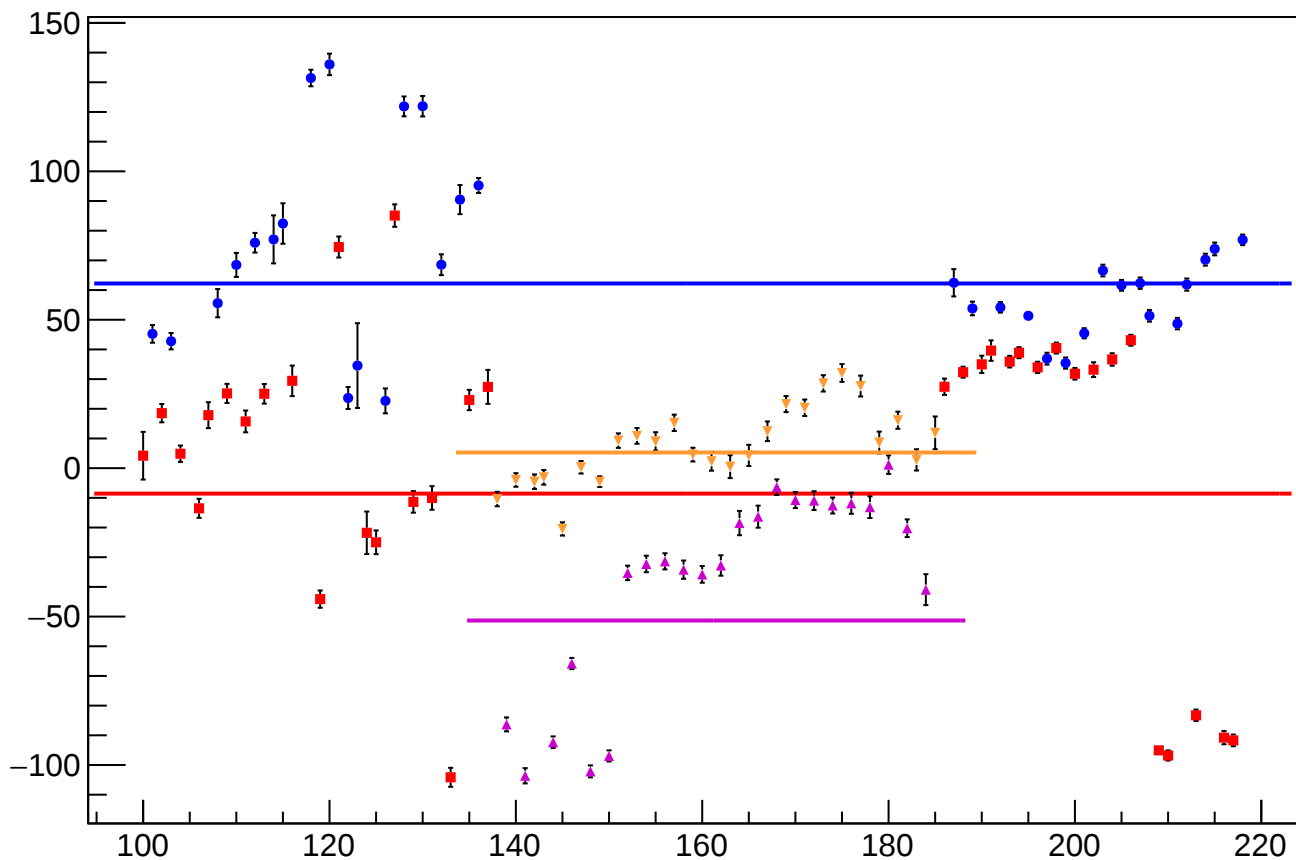
Right: 1.717 $\pm$ 0.001 χ^2 /NDF: 66476624.1/67

In: 1.916 $\pm$ 0.001 χ^2 /NDF:67759427.1/55

Out: 1.939 $\pm$ 0.001 χ^2 /NDF:69065384.9/59

All: 1.928 $\pm$ 0.001 χ^2 /NDF: 136824948.7/115

diff_bpm0i01X_mean vs Slug, Sign Corrected



Right In: 62.218 ± 0.429 $\chi^2/\text{NDF}: 2908.7/32$

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

Right Out: -8.574 ± 0.417 $\chi^2/\text{NDF}: 19797.1/35$

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

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

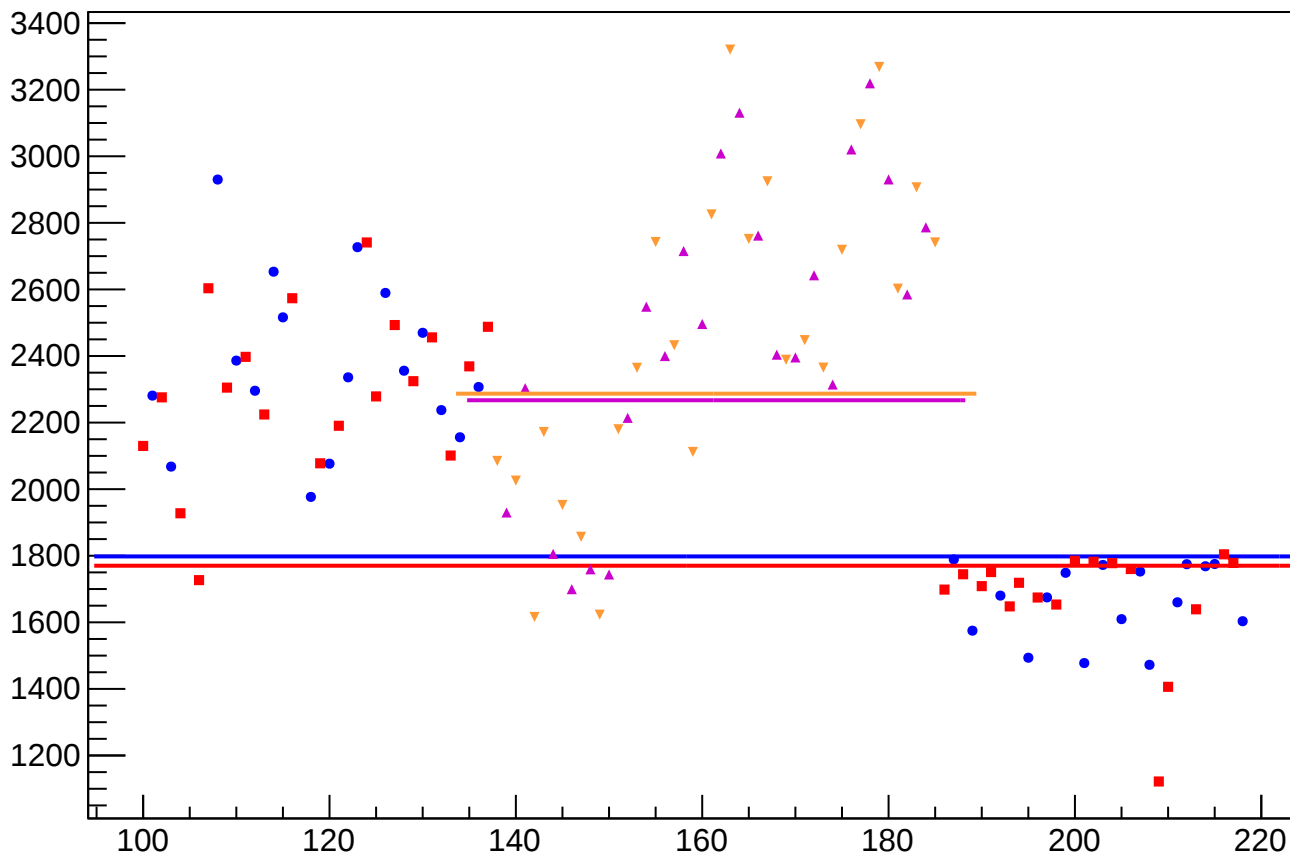
Right: 25.841 ± 0.299 $\chi^2/\text{NDF}: 36693.5/68$

In: 20.061 ± 0.340 $\chi^2/\text{NDF}: 33167.1/55$

Out: -3.445 ± 0.331 $\chi^2/\text{NDF}: 20761.1/60$

All: 7.991 ± 0.237 $\chi^2/\text{NDF}: 56379.3/116$

diff_bpm0i01X_rms vs Slug, Sign Corrected



Right In: 1797.990+/-0.303

χ^2/NDF : 999828.4/32

Left: 2277.239+/-0.276 χ^2/NDF : 2675141.7/47

Right: 1783.622+/-0.212 χ^2/NDF : 2361939.9/68

Left Out: 2286.871+/-0.385

χ^2/NDF :1360490.8/24

In: 1972.157+/-0.241 χ^2/NDF :3200795.3/55

Right Out: 1770.030+/-0.295

χ^2/NDF : 1357747.4/35

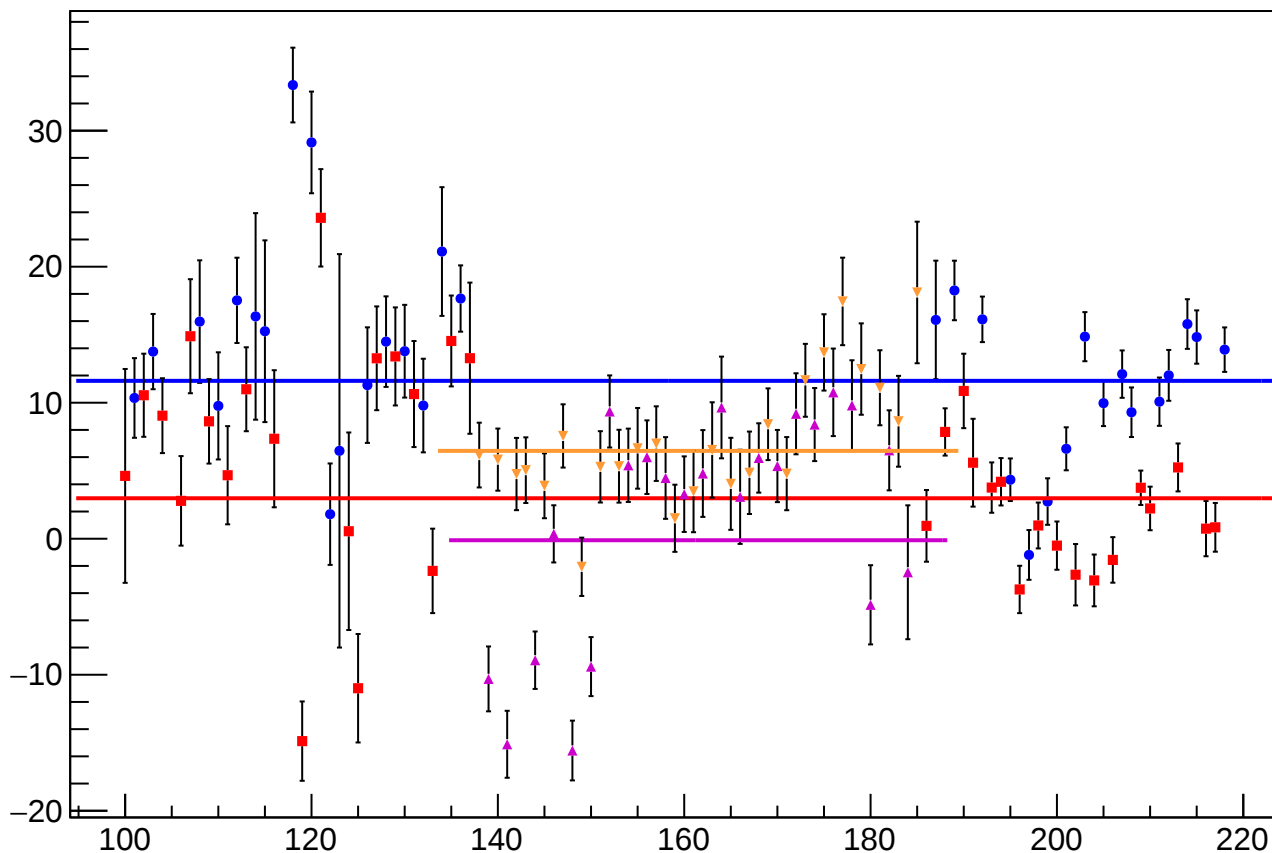
Out: 1961.439+/-0.234 χ^2/NDF :3854215.2/60

Left In: 2267.097+/-0.395

χ^2/NDF :1313364.4/22

All: 1966.653+/-0.168 χ^2/NDF : 7056029.8/11

diff_bpm0i01Y_mean vs Slug, Sign Corrected



Right In: 11.608 ± 0.401 $\chi^2/\text{NDF}: 251.1/32$

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

Right Out: 2.976 ± 0.392 $\chi^2/\text{NDF}: 217.8/35$

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

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

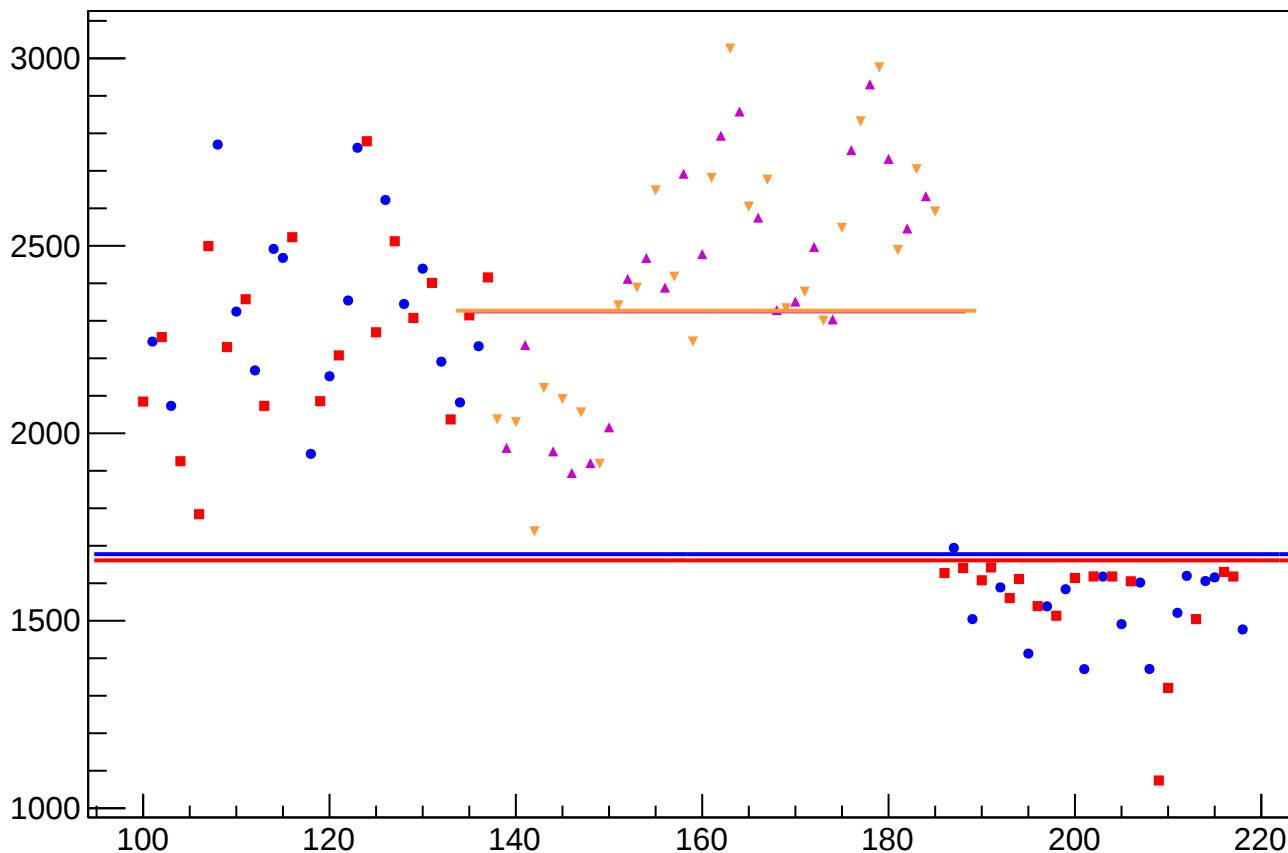
Right: 7.195 ± 0.281 $\chi^2/\text{NDF}: 705.3/68$

In: 7.679 ± 0.327 $\chi^2/\text{NDF}: 771.4/55$

Out: 4.158 ± 0.319 $\chi^2/\text{NDF}: 303.2/60$

All: 5.873 ± 0.228 $\chi^2/\text{NDF}: 1134.0/116$

diff_bpm0i01Y_rms vs Slug, Sign Corrected



Right In: 1677.595 $\pm$ 0.284 χ^2 /NDF: 1265181.6/32

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

Right Out: 1661.121 $\pm$ 0.278 χ^2 /NDF: 1559046.3/35

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

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

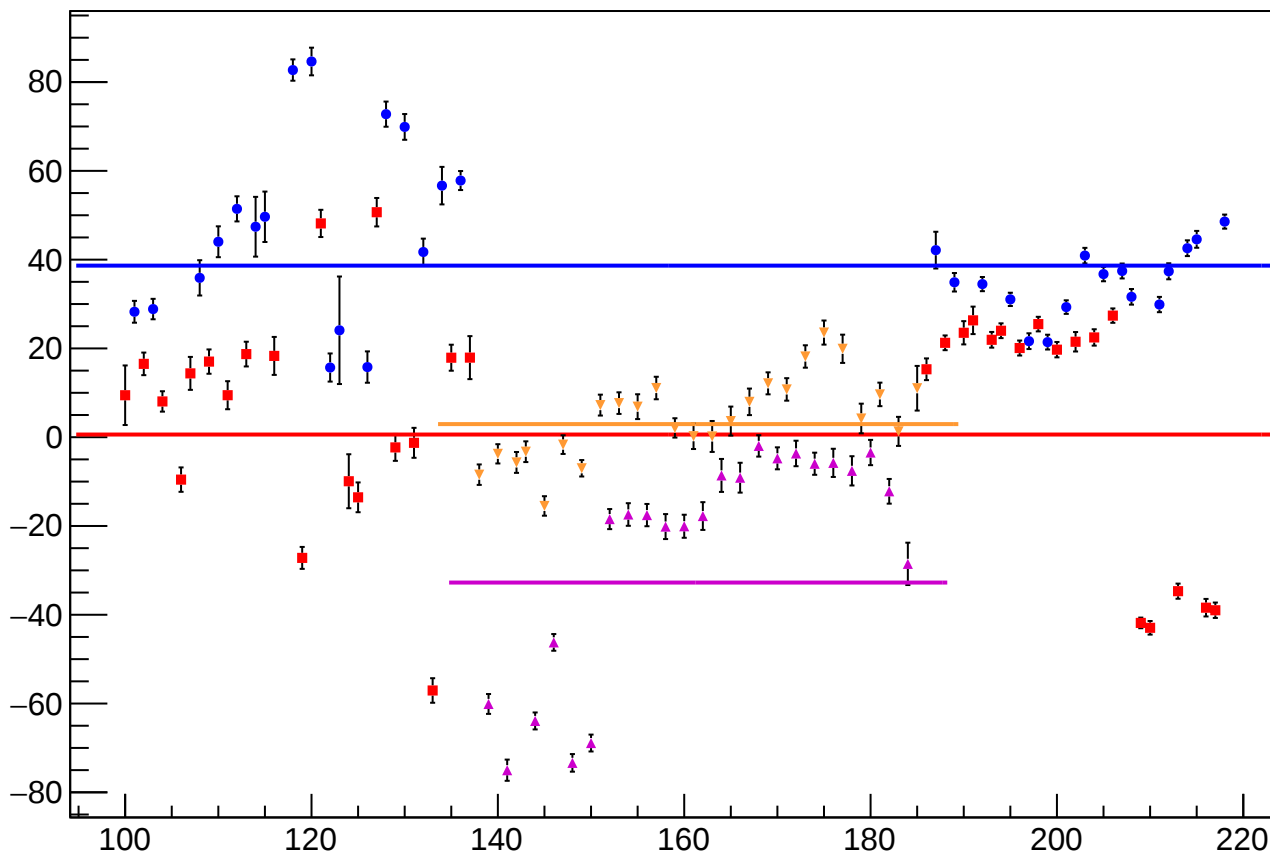
Right: 1669.173 $\pm$ 0.198 χ^2 /NDF: 2825950.2/68

In: 1894.729 $\pm$ 0.231 χ^2 /NDF: 3621351.8/55

Out: 1887.142 $\pm$ 0.226 χ^2 /NDF: 4159853.2/60

All: 1890.839 $\pm$ 0.162 χ^2 /NDF: 7781756.1/11

diff_bpm0i01aX_mean vs Slug, Sign Corrected



Right In: 38.653 ± 0.377 $\chi^2/\text{NDF}: 1446.5/32$

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

Right Out: 0.601 ± 0.367 $\chi^2/\text{NDF}: 6364.2/35$

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

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

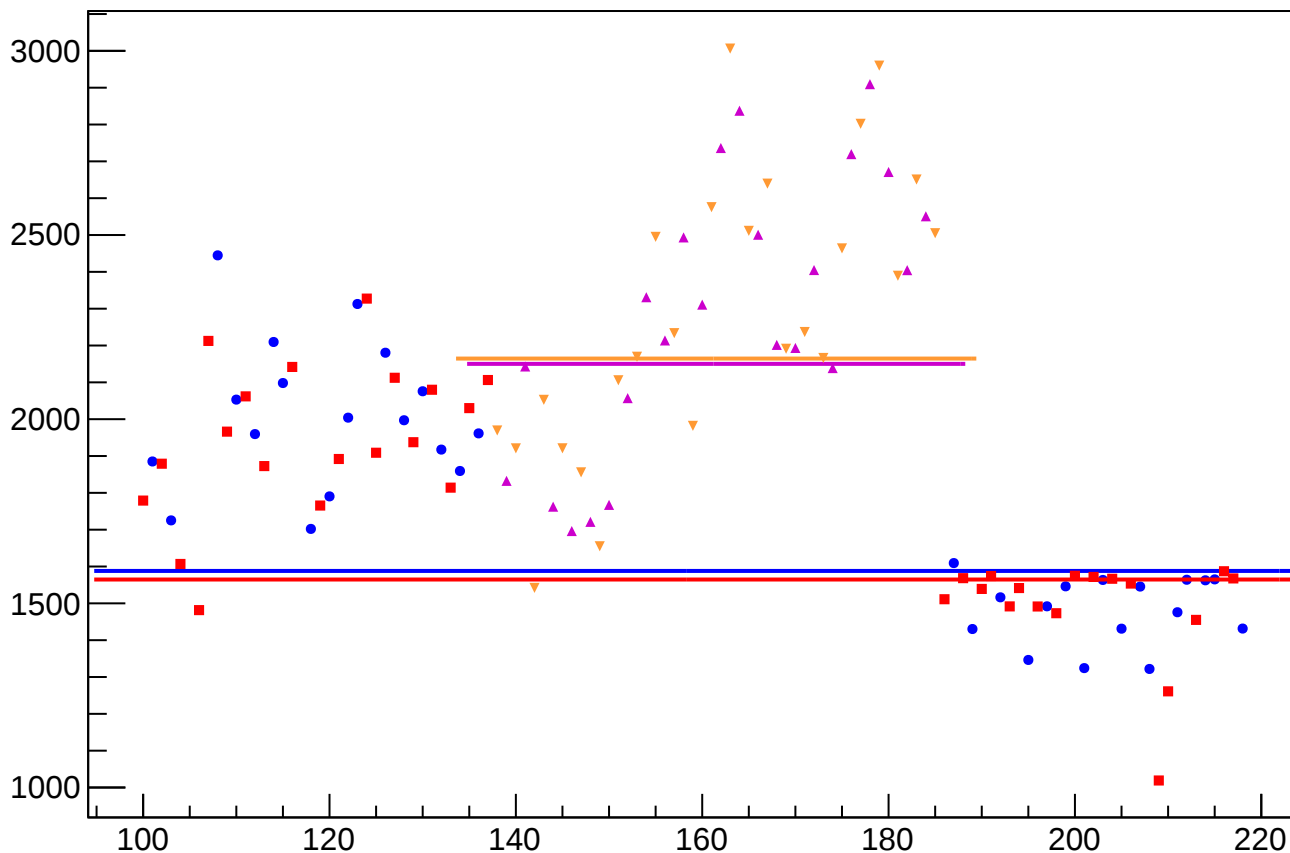
Right: 19.116 ± 0.263 $\chi^2/\text{NDF}: 13030.5/68$

In: 14.397 ± 0.307 $\chi^2/\text{NDF}: 16238.8/55$

Out: 1.401 ± 0.298 $\chi^2/\text{NDF}: 6716.0/60$

All: 7.723 ± 0.214 $\chi^2/\text{NDF}: 23877.1/116$

diff_bpm0i01aX_rms vs Slug, Sign Corrected



Right In: 1588.006 $\pm$ 0.267

χ^2 /NDF: 764170.0/32

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

Right: 1576.034 $\pm$ 0.186 χ^2 /NDF: 1849202.2/68

Left Out: 2164.573 $\pm$ 0.362

χ^2 /NDF: 965603.5/24

In: 1778.995 $\pm$ 0.217 χ^2 /NDF: 3183799.9/55

Right Out: 1564.689 $\pm$ 0.260

χ^2 /NDF: 1081112.1/35

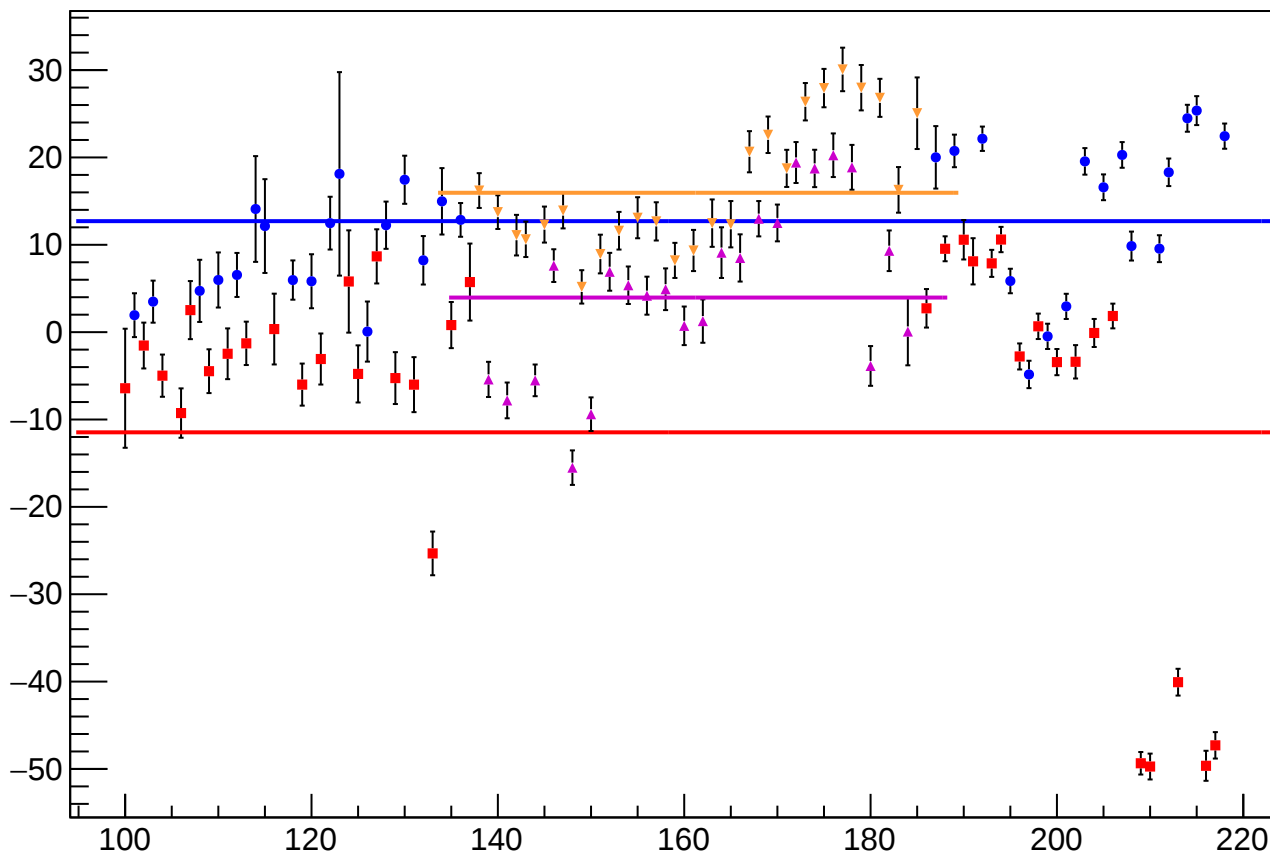
Out: 1768.611 $\pm$ 0.211 χ^2 /NDF: 3859466.2/60

Left In: 2150.190 $\pm$ 0.372

χ^2 /NDF: 911849.7/22

All: 1773.663 $\pm$ 0.151 χ^2 /NDF: 7044443.8/11

diff_bpm0i01aY_mean vs Slug, Sign Corrected



Right In: 12.708 $\pm$ 0.342 χ^2 /NDF: 664.5/32

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

Right Out: -11.467 $\pm$ 0.336 χ^2 /NDF: 4247.4/35

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

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

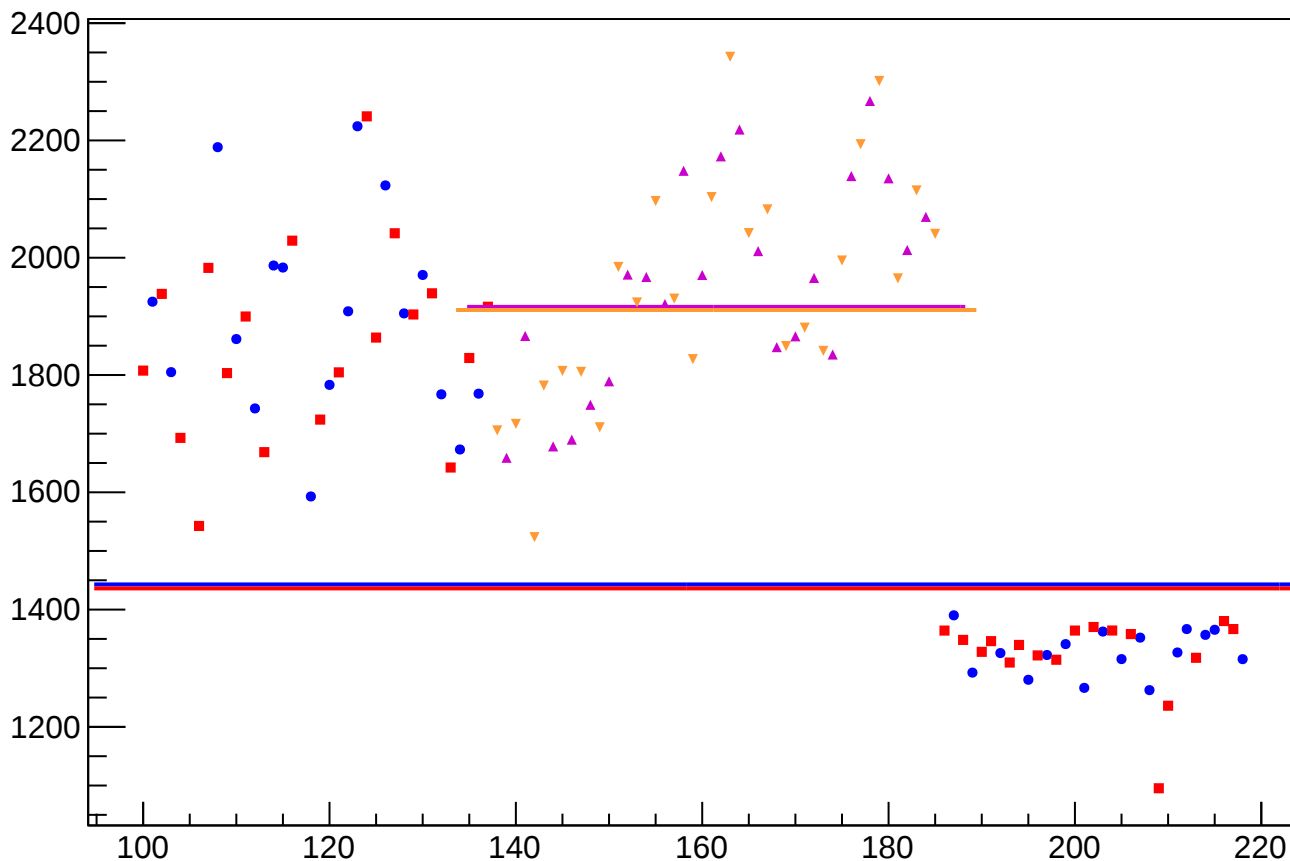
Right: 0.394 $\pm$ 0.240 χ^2 /NDF: 7451.9/68

In: 9.614 $\pm$ 0.275 χ^2 /NDF:1360.3/55

Out: -1.578 $\pm$ 0.269 χ^2 /NDF:6894.7/60

All: 3.883 $\pm$ 0.192 χ^2 /NDF: 9101.9/116

diff_bpm0i01aY_rms vs Slug, Sign Corrected



Right In: 1442.902 $\pm$ 0.242 χ^2 /NDF: 897893.7/32

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

Right Out: 1436.096 $\pm$ 0.238 χ^2 /NDF: 979946.8/35

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

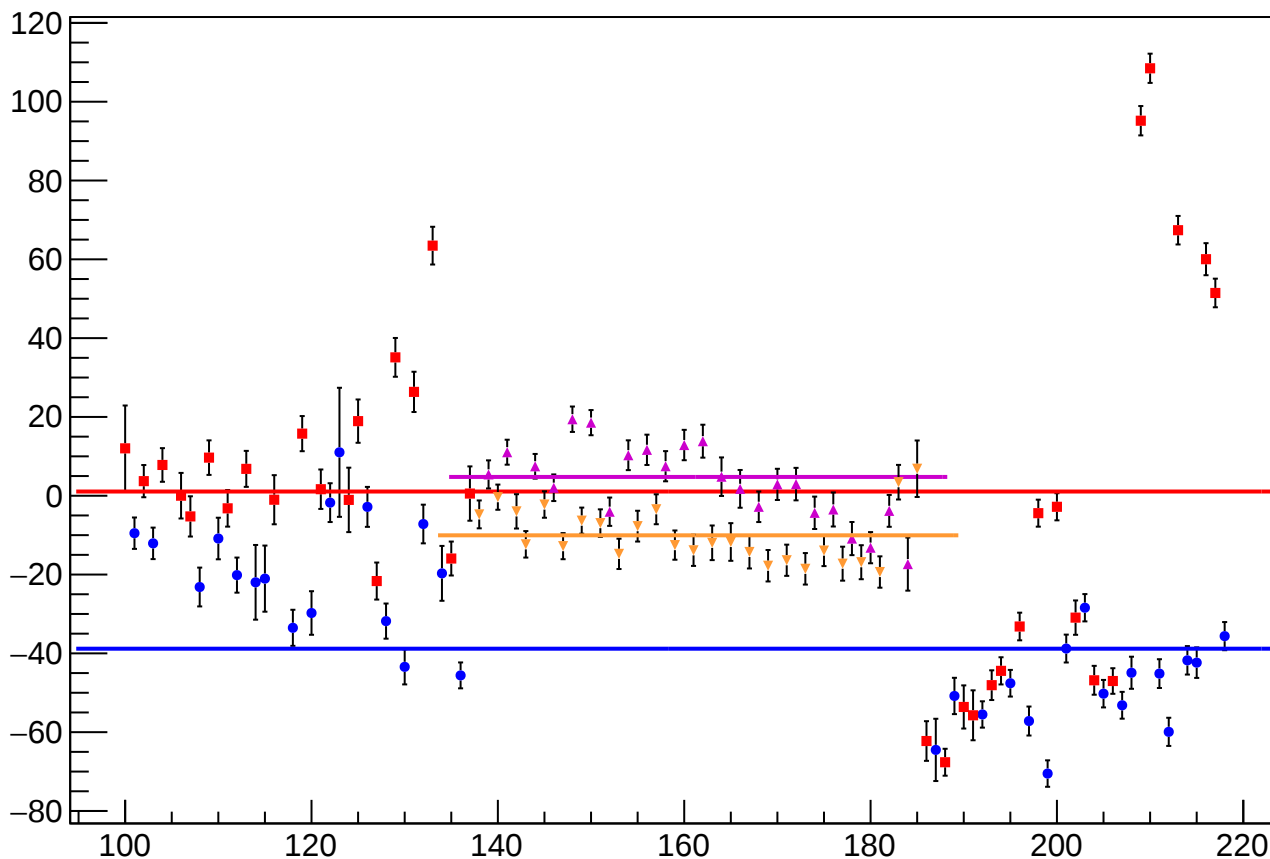
Right: 1439.435 $\pm$ 0.170 χ^2 /NDF: 1878243.1/68

In: 1610.263 $\pm$ 0.195 χ^2 /NDF:2523823.6/55

Out: 1607.297 $\pm$ 0.190 χ^2 /NDF:2748872.4/60

All: 1608.744 $\pm$ 0.136 χ^2 /NDF: 5272814.9/11

diff_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -38.817 ± 0.732 $\chi^2/\text{NDF}: 582.4/32$

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

Right Out: 1.072 ± 0.723 $\chi^2/\text{NDF}: 4160.2/35$

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

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

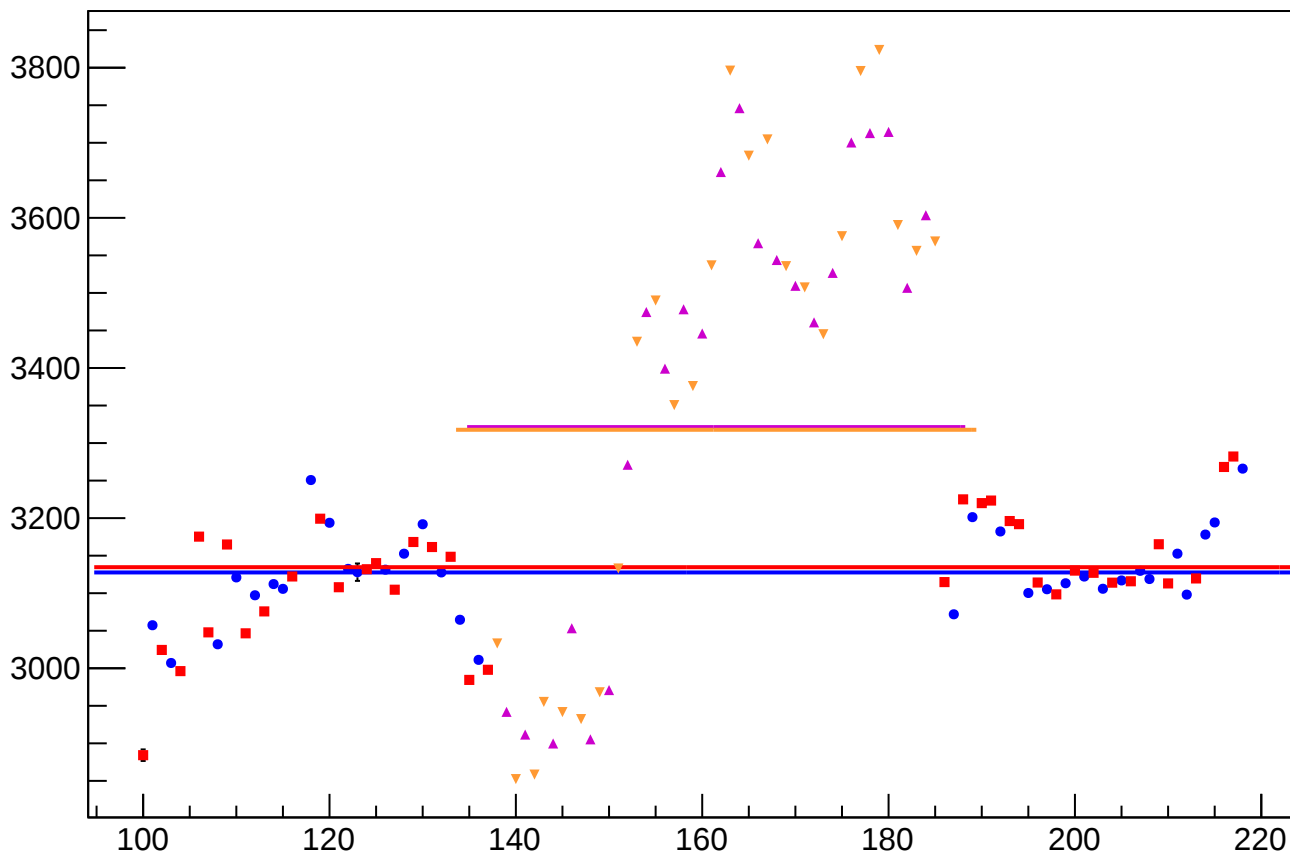
Right: -18.632 ± 0.514 $\chi^2/\text{NDF}: 6246.4/68$

In: -18.974 ± 0.540 $\chi^2/\text{NDF}: 2326.5/55$

Out: -4.089 ± 0.529 $\chi^2/\text{NDF}: 4337.0/60$

All: -11.379 ± 0.378 $\chi^2/\text{NDF}: 7051.2/116$

diff_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 3127.648 $\pm$ 0.517 χ^2 /NDF: 13911.5/32

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

Right Out: 3134.648 $\pm$ 0.511 χ^2 /NDF: 19905.1/35

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

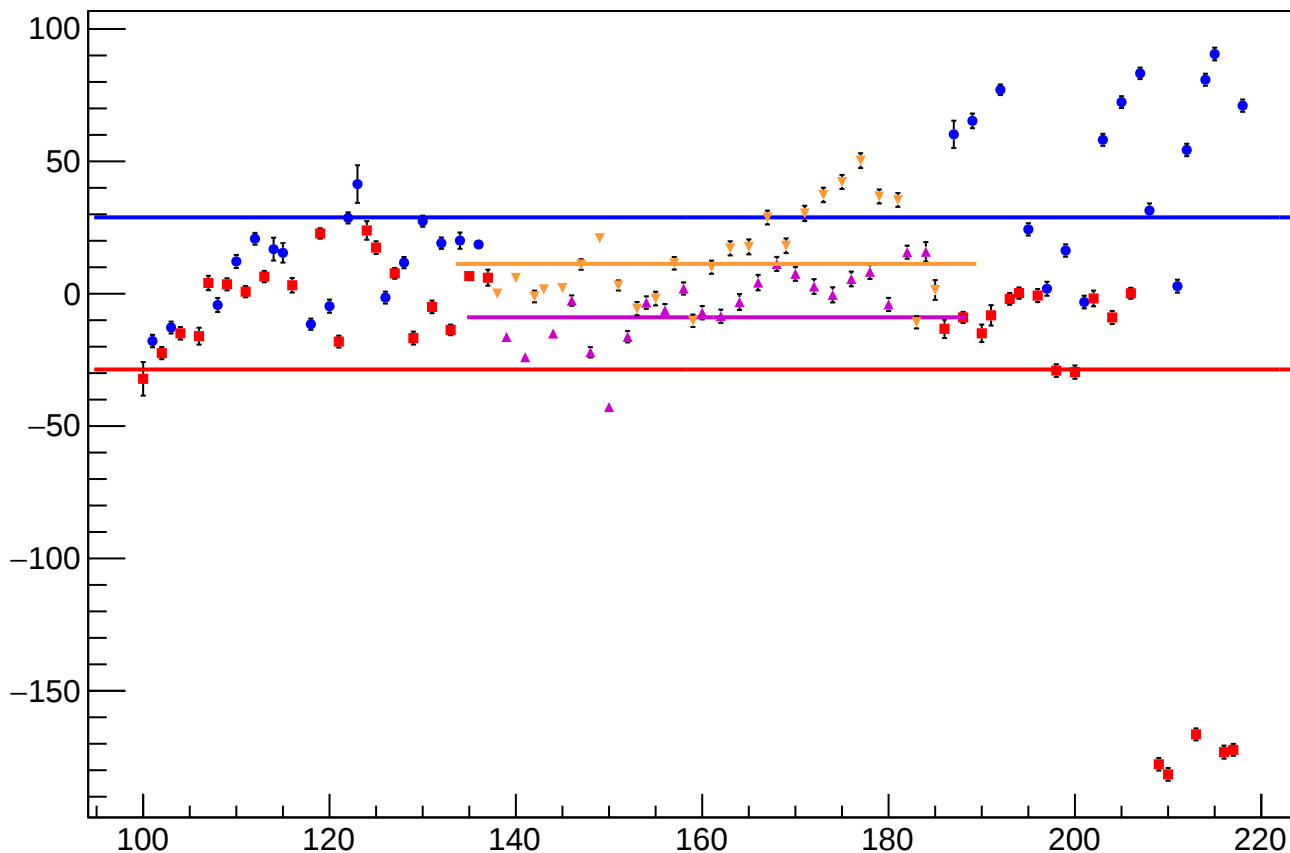
Right: 3131.190 $\pm$ 0.364 χ^2 /NDF: 33909.3/68

In: 3215.788 $\pm$ 0.382 χ^2 /NDF:361998.4/55

Out: 3219.664 $\pm$ 0.374 χ^2 /NDF:416332.0/60

All: 3217.766 $\pm$ 0.267 χ^2 /NDF: 778383.0/116

diff_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: 28.847 $\pm$ 0.411 χ^2 /NDF: 5862.2/32

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

Right Out: -28.610 $\pm$ 0.404 χ^2 /NDF: 23330.1/35

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

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

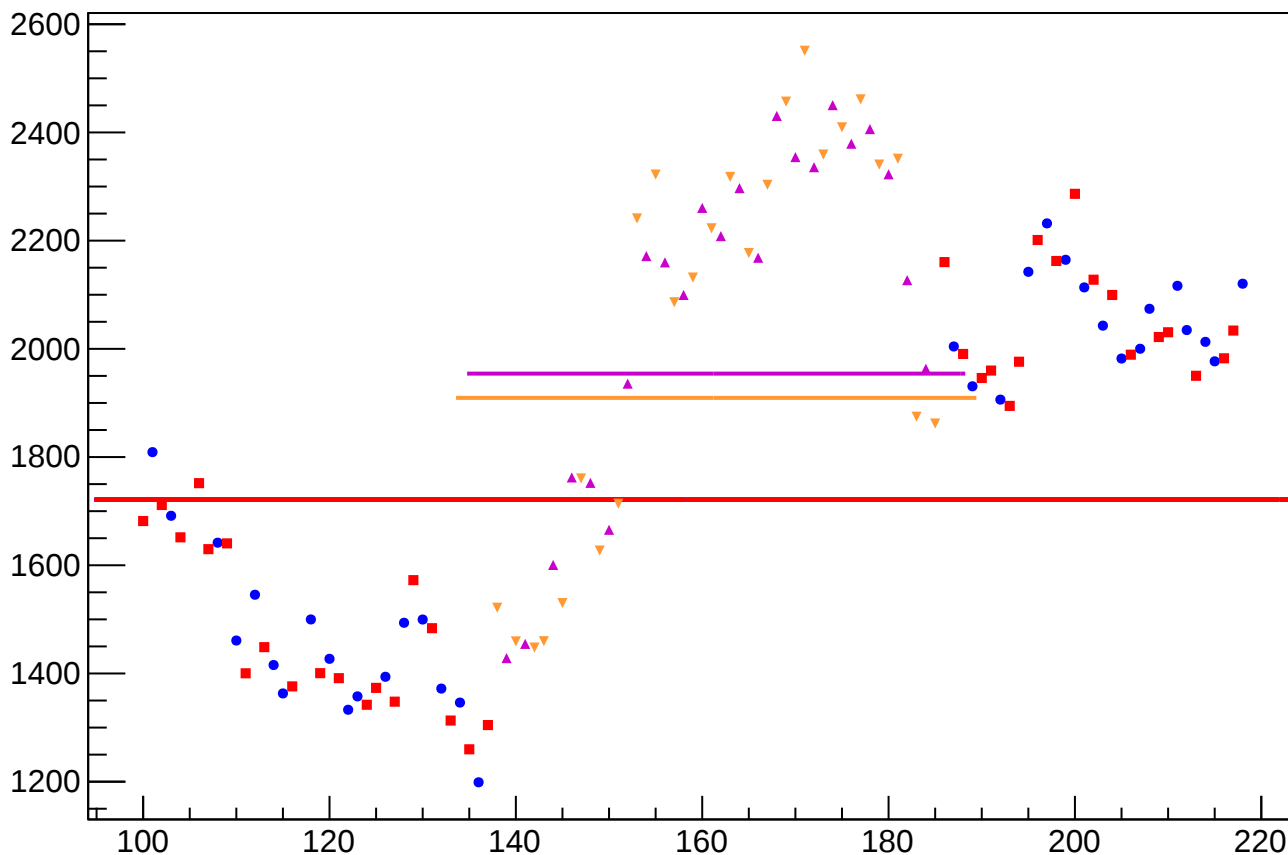
Right: -0.359 $\pm$ 0.288 χ^2 /NDF: 39129.0/68

In: 12.784 $\pm$ 0.311 χ^2 /NDF:10389.3/55

Out: -10.994 $\pm$ 0.302 χ^2 /NDF:28772.1/60

All: 0.527 $\pm$ 0.217 χ^2 /NDF: 42165.5/116

diff_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 1722.074 ± 0.291 $\chi^2/\text{NDF}: 1312481.1/32$

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

Right Out: 1720.649 ± 0.286 $\chi^2/\text{NDF}: 1248121.8/35$

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

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

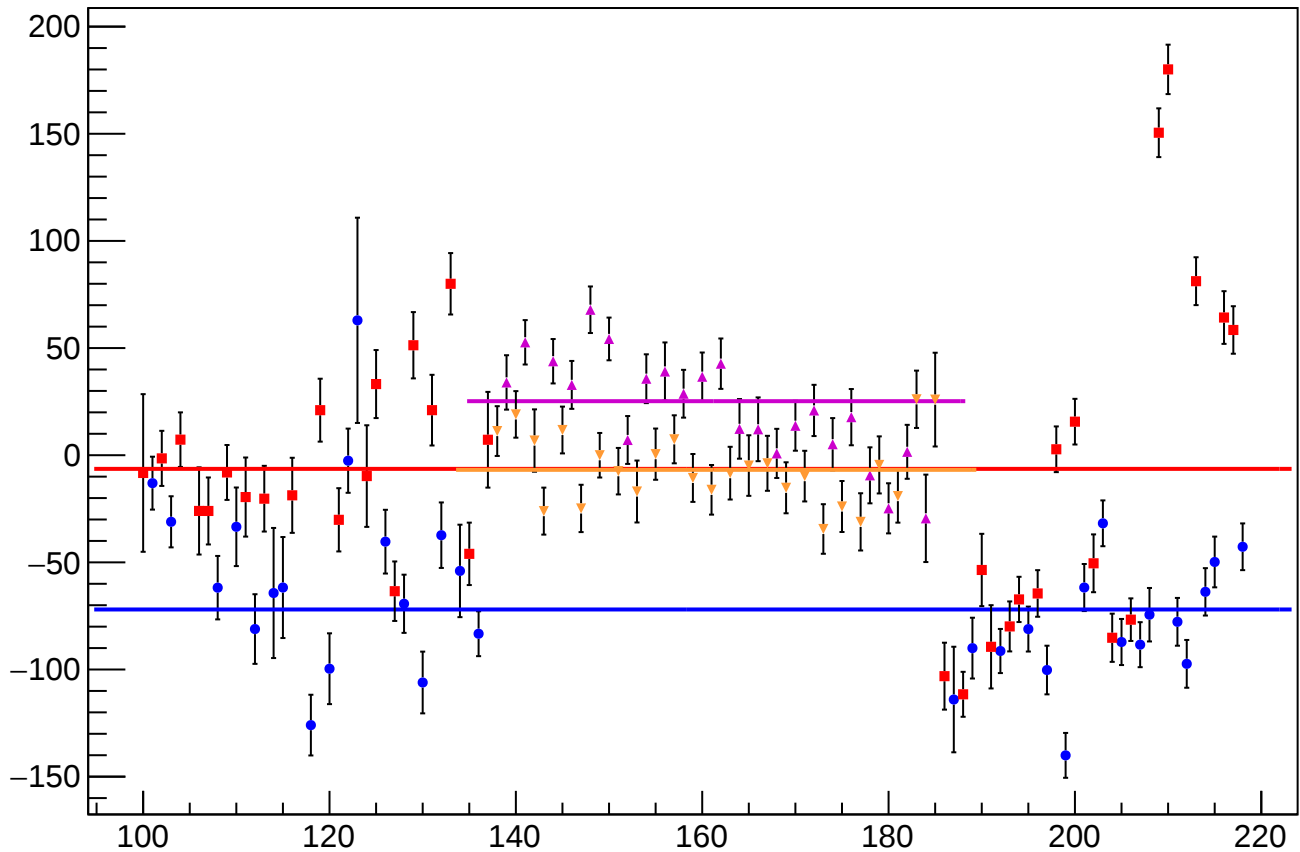
Right: 1721.349 ± 0.204 $\chi^2/\text{NDF}: 2560615.1/68$

In: 1820.855 ± 0.220 $\chi^2/\text{NDF}: 2628908.5/55$

Out: 1804.021 ± 0.214 $\chi^2/\text{NDF}: 2839277.1/60$

All: 1812.177 ± 0.153 $\chi^2/\text{NDF}: 5471197.0/11$

diff_bpm0l02X_mean vs Slug, Sign Corrected



Right In: -71.988 ± 2.266 χ^2/NDF : 197.4/32

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

Right Out: -6.372 ± 2.242 χ^2/NDF : 1057.4/35

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

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

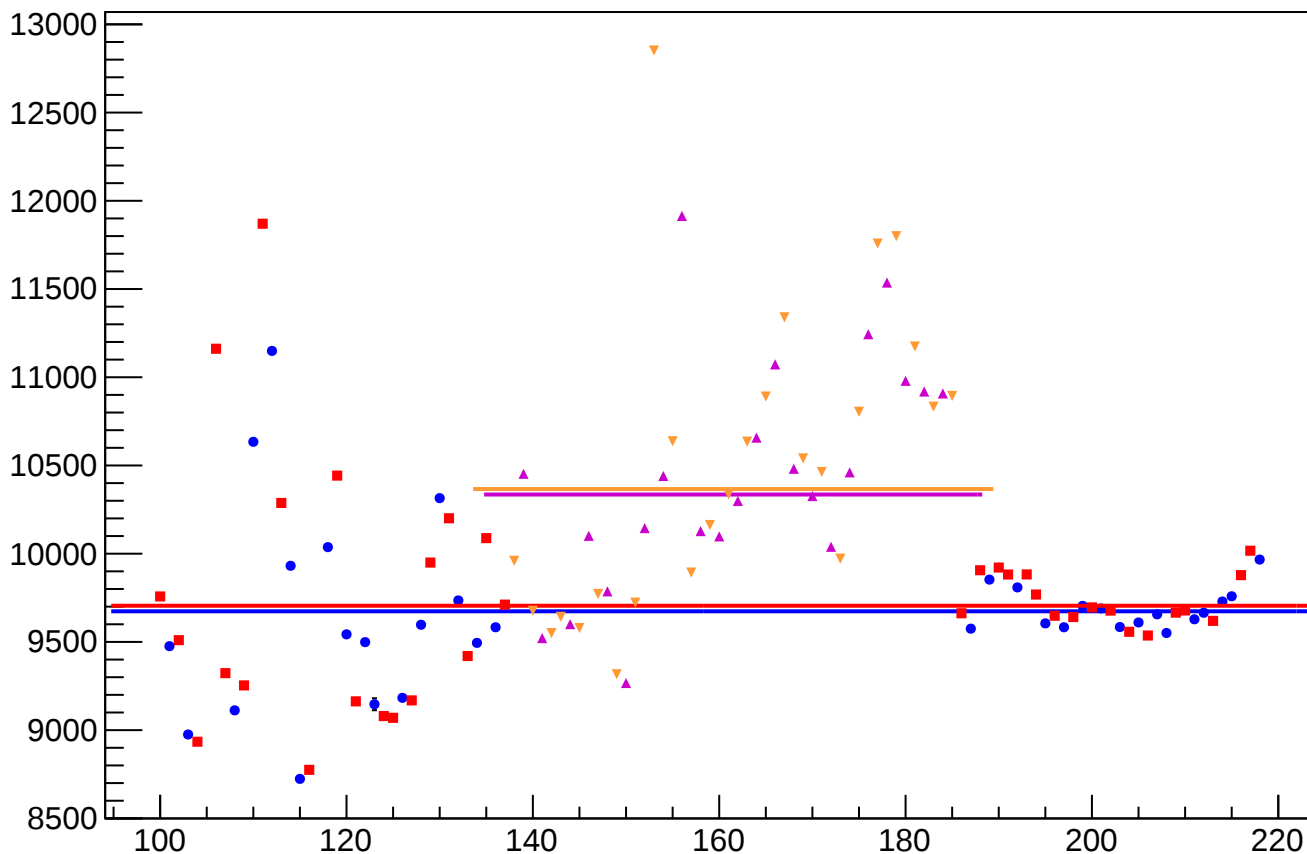
Right: -38.828 ± 1.594 χ^2/NDF : 1678.4/68

In: -27.880 ± 1.675 χ^2/NDF : 1121.4/55

Out: -6.581 ± 1.646 χ^2/NDF : 1099.8/60

All: -17.041 ± 1.174 χ^2/NDF : 2303.4/116

diff_bpm0l02X_rms vs Slug, Sign Corrected



Right In: 9673.608 $\pm$ 1.603 χ^2 /NDF: 47073.3/32

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

Right Out: 9705.109 $\pm$ 1.585 χ^2 /NDF: 82549.1/35

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

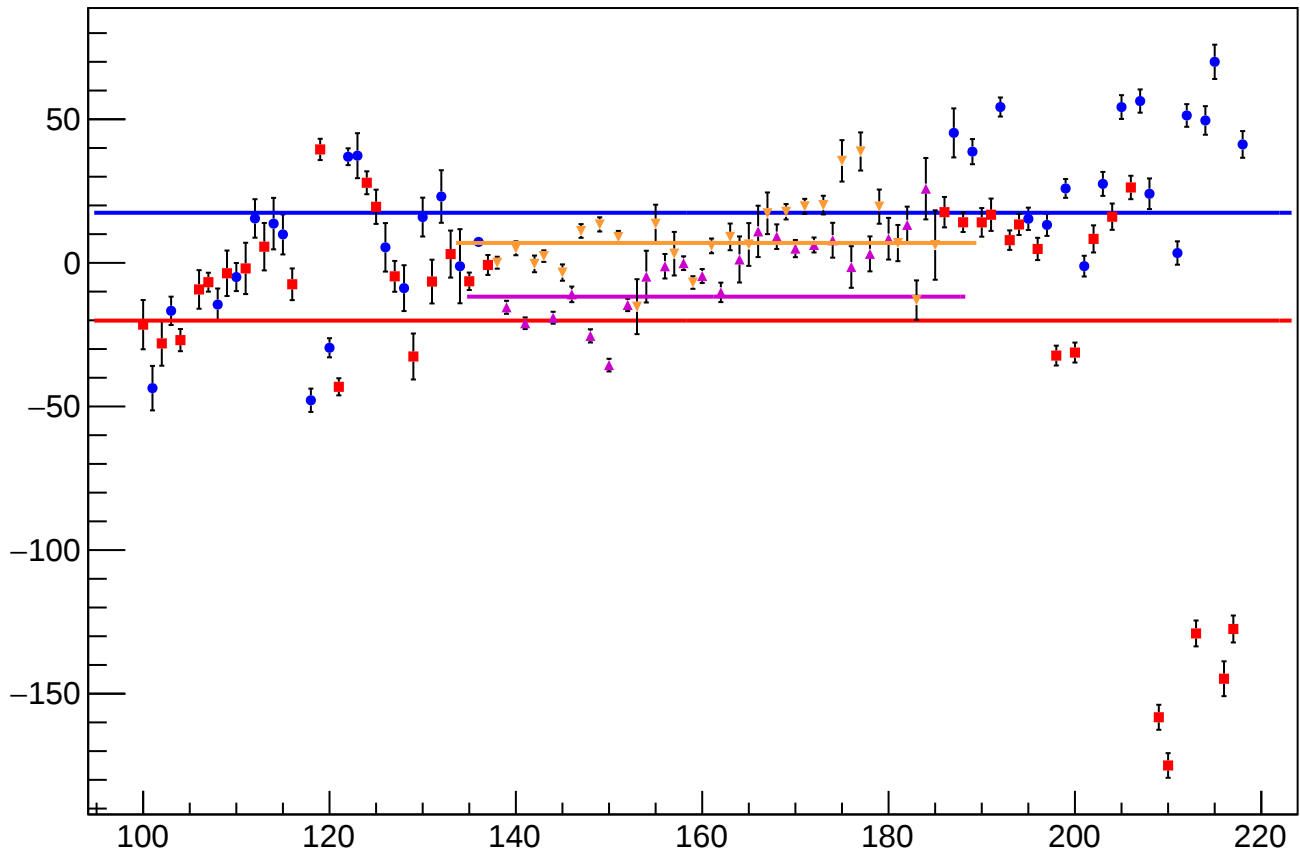
Right: 9689.528 $\pm$ 1.127 χ^2 /NDF: 129817.7/68

In: 9973.915 $\pm$ 1.184 χ^2 /NDF: 251626.5/55

Out: 10010.287 $\pm$ 1.164 χ^2 /NDF: 374253.0/60

All: 9992.424 $\pm$ 0.830 χ^2 /NDF: 626359.3/116

diff_bpm0l02Y_mean vs Slug, Sign Corrected



Right In: 17.444 ± 0.747 $\chi^2/\text{NDF}: 1325.6/32$

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

Right Out: -20.097 ± 0.744 $\chi^2/\text{NDF}: 5152.4/35$

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

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

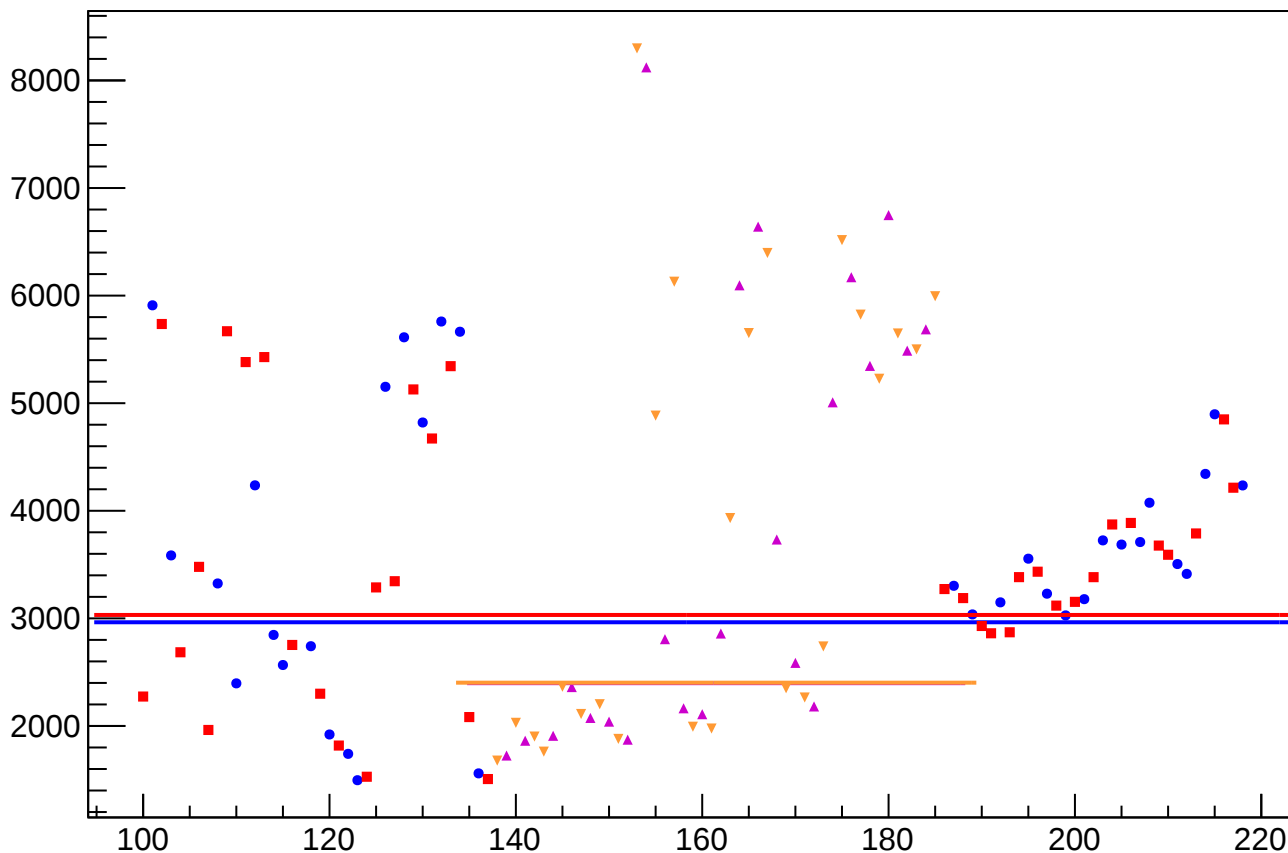
Right: -1.424 ± 0.527 $\chi^2/\text{NDF}: 7746.0/68$

In: 0.776 ± 0.490 $\chi^2/\text{NDF}: 2592.3/55$

Out: -4.541 ± 0.485 $\chi^2/\text{NDF}: 6117.0/60$

All: -1.911 ± 0.344 $\chi^2/\text{NDF}: 8768.8/116$

diff_bpm0l02Y_rms vs Slug, Sign Corrected



Right In: 2963.871 ± 0.529 $\chi^2/\text{NDF}: 4098972.8/32$

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

Right Out: 3031.768 ± 0.526 $\chi^2/\text{NDF}: 3371735.0/35$

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

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

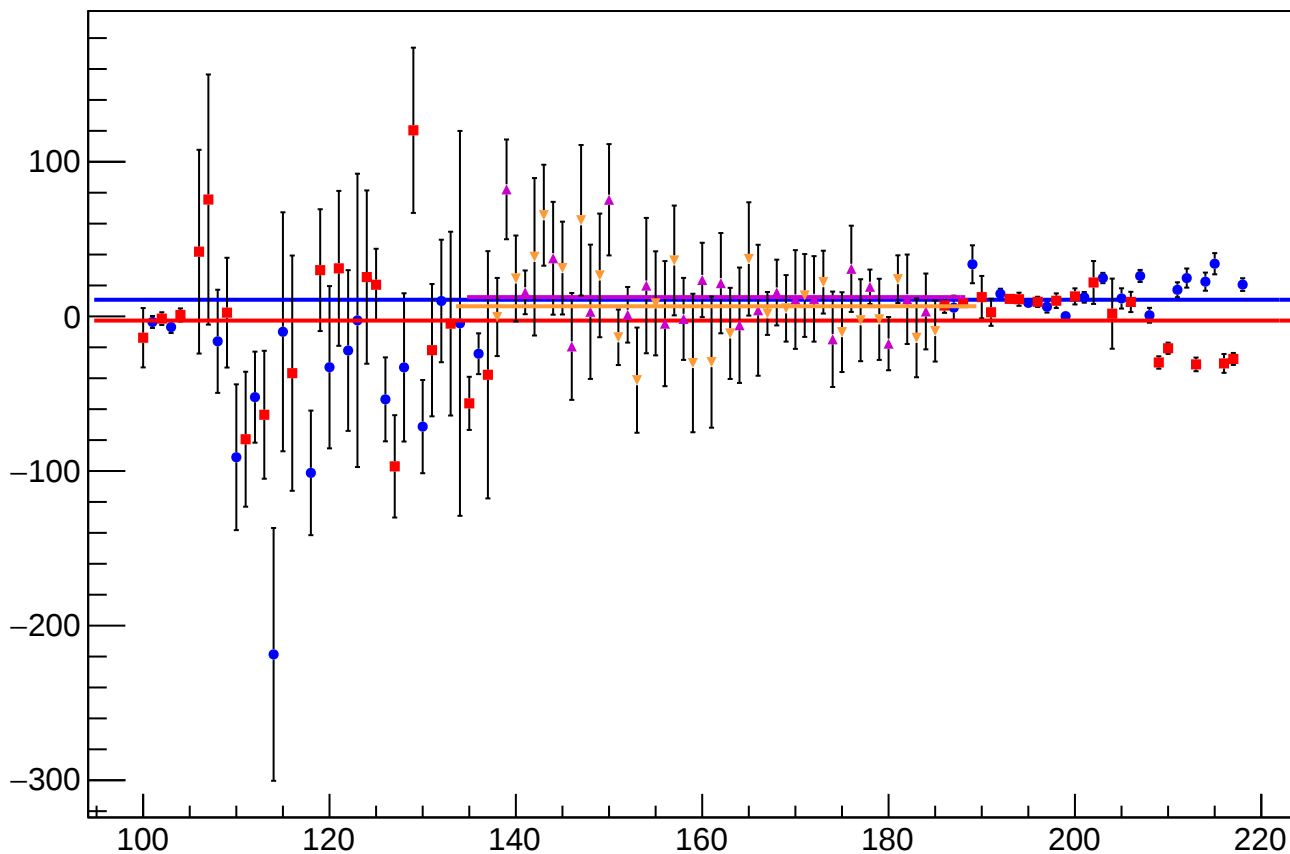
Right: 2997.997 ± 0.373 $\chi^2/\text{NDF}: 7479003.0/68$

In: 2640.800 ± 0.346 $\chi^2/\text{NDF}: 10152737.8/55$

Out: 2669.623 ± 0.343 $\chi^2/\text{NDF}: 10542315.3/60$

All: 2655.367 ± 0.244 $\chi^2/\text{NDF}: 20698554.0/117$

diff_bpm0l03X_mean vs Slug, Sign Corrected



Right In: 10.765 ± 0.990 $\chi^2/\text{NDF}: 167.4/32$

Left Out: 6.560 ± 5.077 $\chi^2/\text{NDF}: 16.8/24$

Right Out: -2.697 ± 1.022 $\chi^2/\text{NDF}: 296.2/35$

Left In: 12.469 ± 5.025 $\chi^2/\text{NDF}: 15.4/22$

Left: 9.545 ± 3.572 $\chi^2/\text{NDF}: 32.8/47$

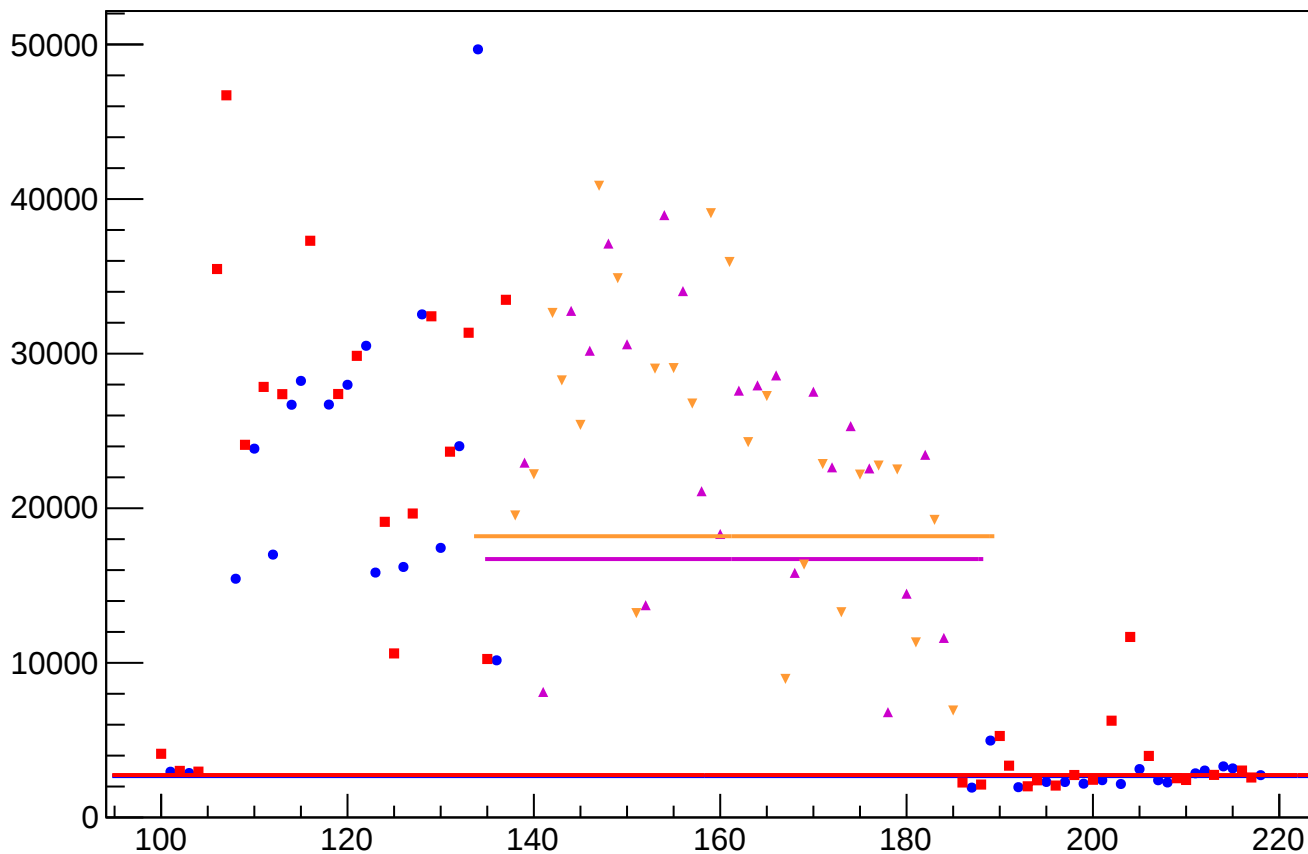
Right: 4.249 ± 0.711 $\chi^2/\text{NDF}: 553.2/68$

In: 10.828 ± 0.971 $\chi^2/\text{NDF}: 182.9/55$

Out: -2.337 ± 1.002 $\chi^2/\text{NDF}: 316.1/60$

All: 4.451 ± 0.697 $\chi^2/\text{NDF}: 588.1/116$

diff_bpm0l03X_rms vs Slug, Sign Corrected



Right In: 2674.764+/-0.700 χ^2/NDF : 7047216.0/32

Left Out: 18190.387+/-3.590 χ^2/NDF : 5261328.5/24

Right Out: 2743.719+/-0.722 χ^2/NDF : 9087630.3/35

Left In: 16713.653+/-3.553 χ^2/NDF : 6194178.8/22

Left: 17444.397+/-2.526 χ^2/NDF : 11540970.2/47

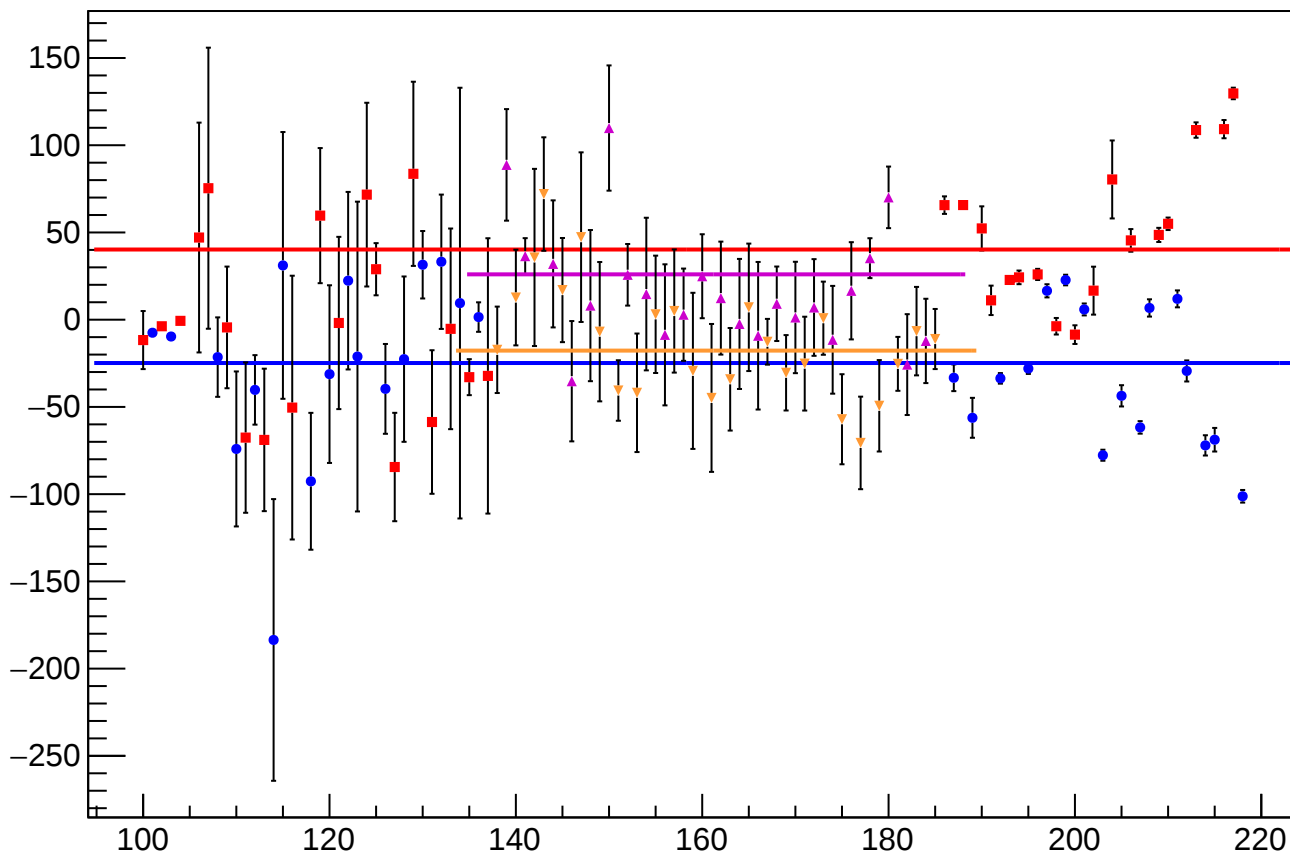
Right: 2708.140+/-0.503 χ^2/NDF : 16139547.0/68

In: 3198.801+/-0.687 χ^2/NDF : 28267757.3/55

Out: 3344.818+/-0.708 χ^2/NDF : 32138871.2/60

All: 3269.537+/-0.493 χ^2/NDF : 60428542.7/13

diff_bpm0l03Y_mean vs Slug, Sign Corrected



Right In: -24.831 ± 0.890 $\chi^2/\text{NDF}: 1618.3/32$

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

Right Out: 40.225 ± 0.916 $\chi^2/\text{NDF}: 2097.3/35$

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

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

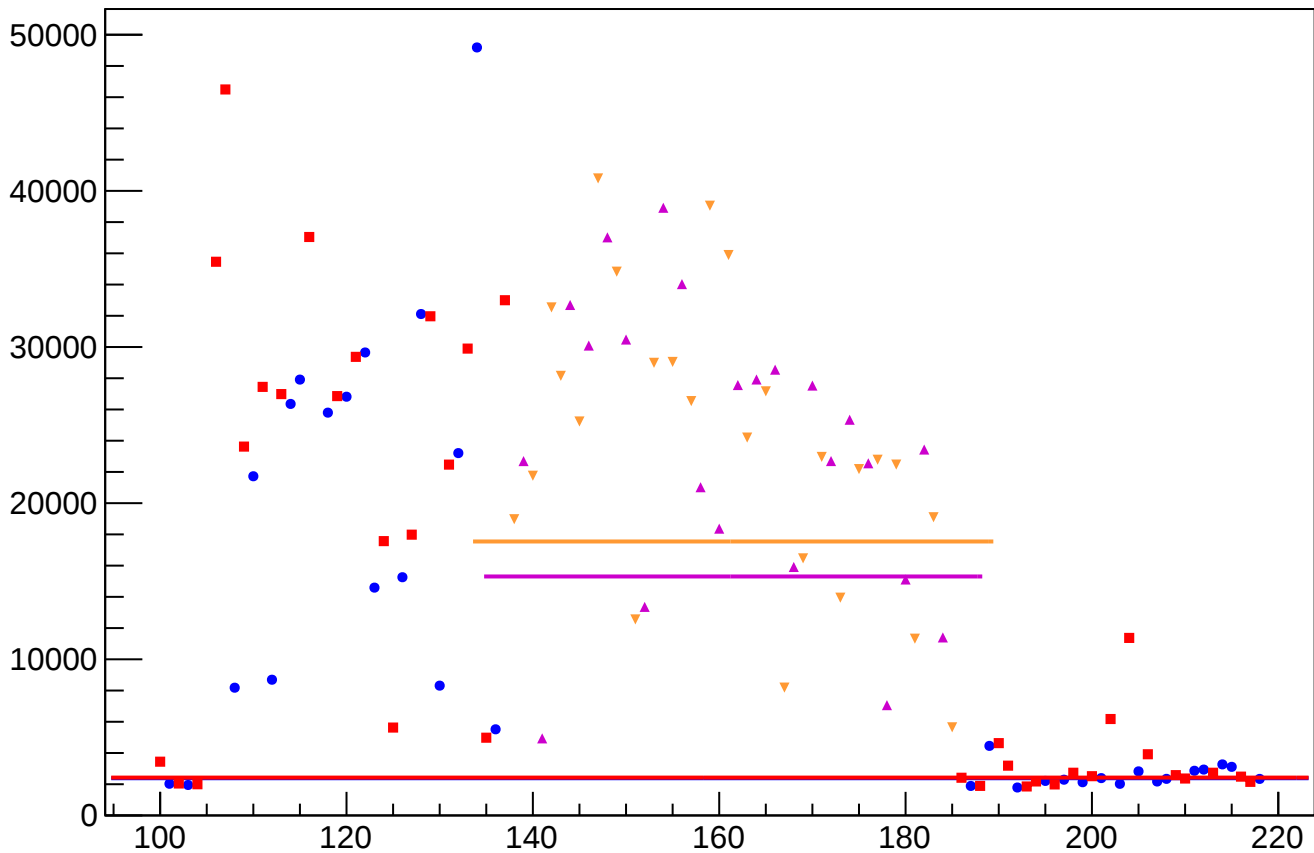
Right: 6.759 ± 0.638 $\chi^2/\text{NDF}: 6309.1/68$

In: -23.134 ± 0.875 $\chi^2/\text{NDF}: 1759.8/55$

Out: 38.324 ± 0.901 $\chi^2/\text{NDF}: 2255.7/60$

All: 6.699 ± 0.628 $\chi^2/\text{NDF}: 6409.2/116$

diff_bpm0l03Y_rms vs Slug, Sign Corrected



Right In: 2384.361 ± 0.629 $\chi^2/\text{NDF}: 5928903.6/32$

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

Right Out: 2424.770 ± 0.648 $\chi^2/\text{NDF}: 8774528.8/35$

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

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

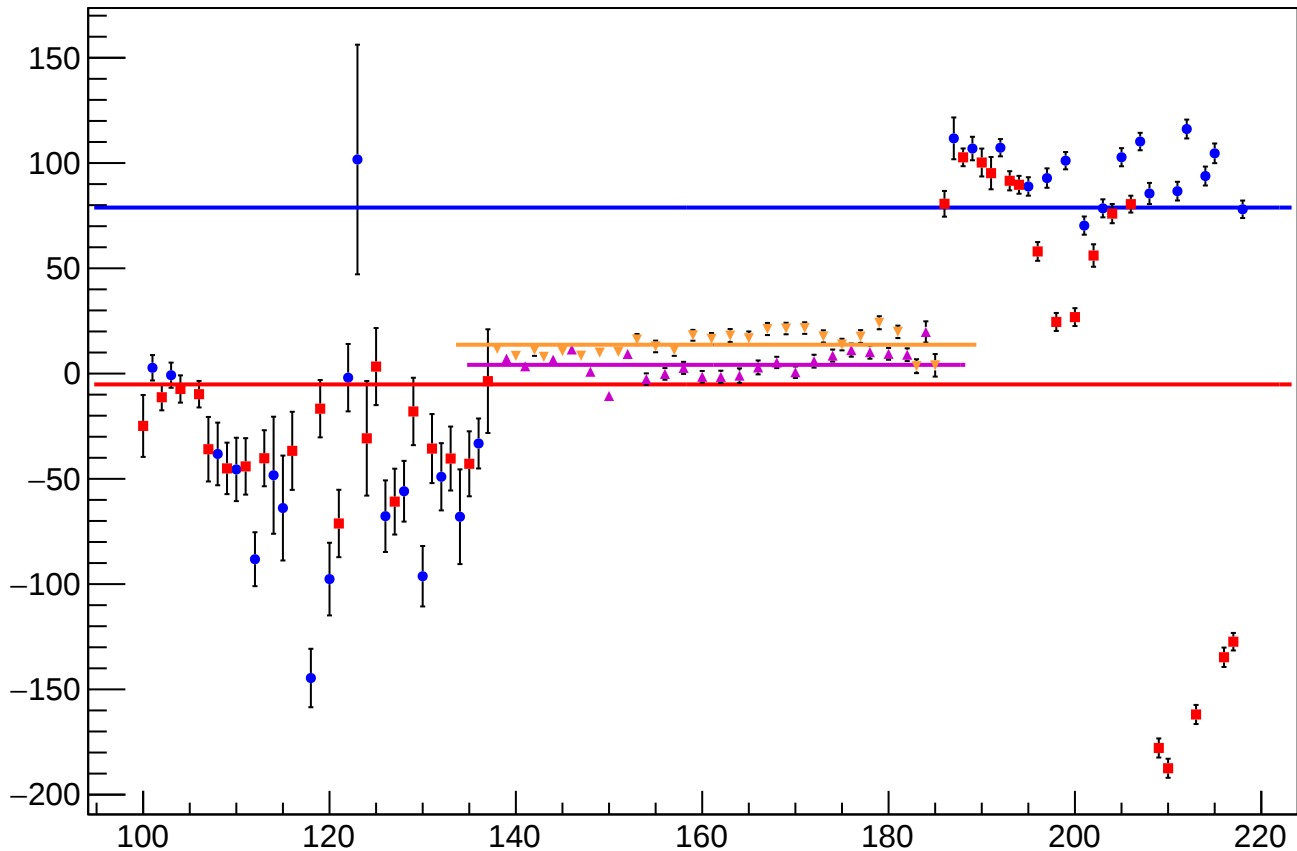
Right: 2403.983 ± 0.451 $\chi^2/\text{NDF}: 14705433.7/68$

In: 2815.898 ± 0.619 $\chi^2/\text{NDF}: 27723459.8/55$

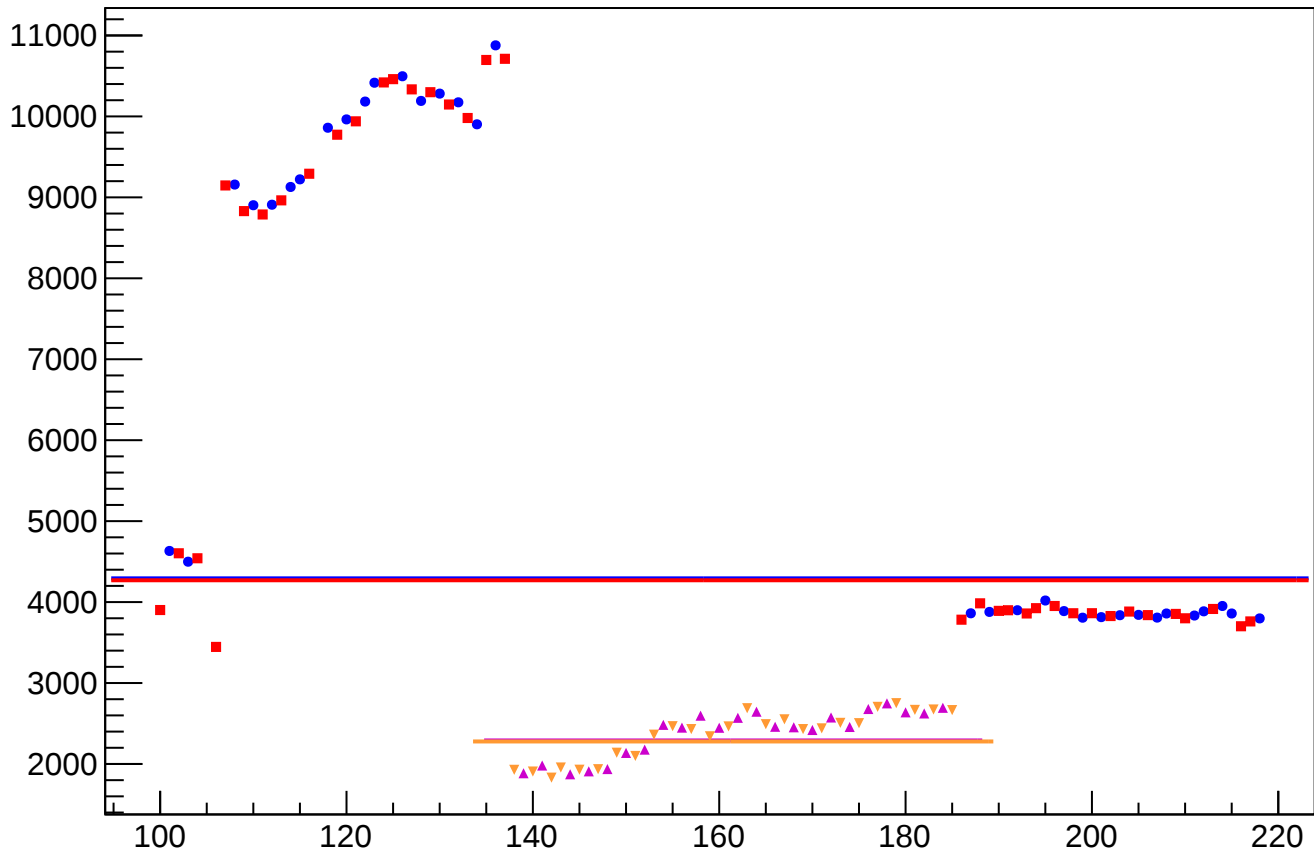
Out: 2920.976 ± 0.637 $\chi^2/\text{NDF}: 32553233.6/60$

All: 2866.906 ± 0.444 $\chi^2/\text{NDF}: 60290688.7/112$

diff_bpm0l04X_mean vs Slug, Sign Corrected



diff_bpm0l04X_rms vs Slug, Sign Corrected



Right In: 4293.119+/-0.751 χ^2/NDF : 3892994.4/32

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

Right Out: 4269.524+/-0.736 χ^2/NDF : 3935444.2/35

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

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

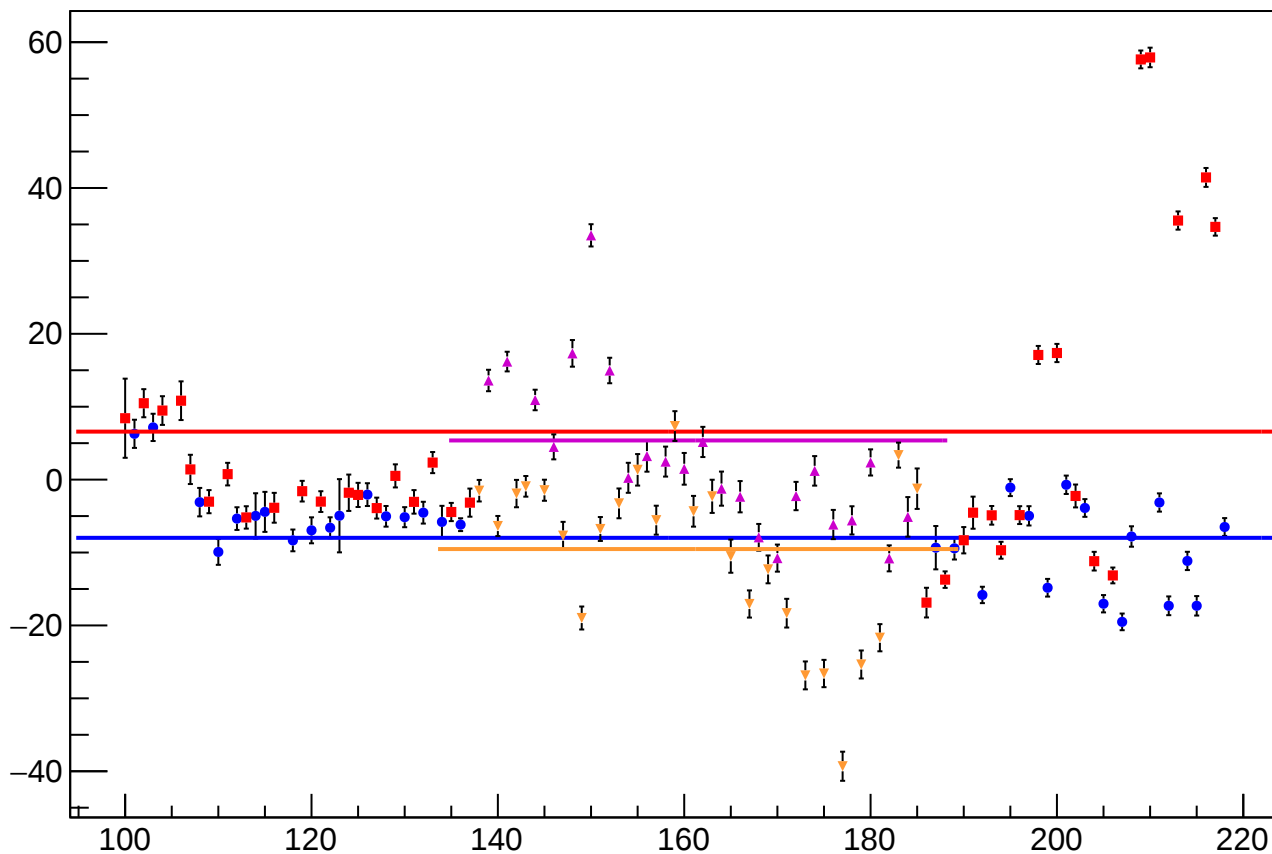
Right: 4281.076+/-0.526 χ^2/NDF : 7828942.2/68

In: 2719.580+/-0.348 χ^2/NDF : 10067190.6/55

Out: 2694.836+/-0.337 χ^2/NDF : 10335796.4/60

All: 2706.804+/-0.242 χ^2/NDF : 20405601.3/131

diff_bpm0l04Y_mean vs Slug, Sign Corrected



Right In: -7.984 ± 0.249 χ^2/NDF : 618.8/32

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

Right Out: 6.585 ± 0.246 χ^2/NDF : 7111.2/35

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

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

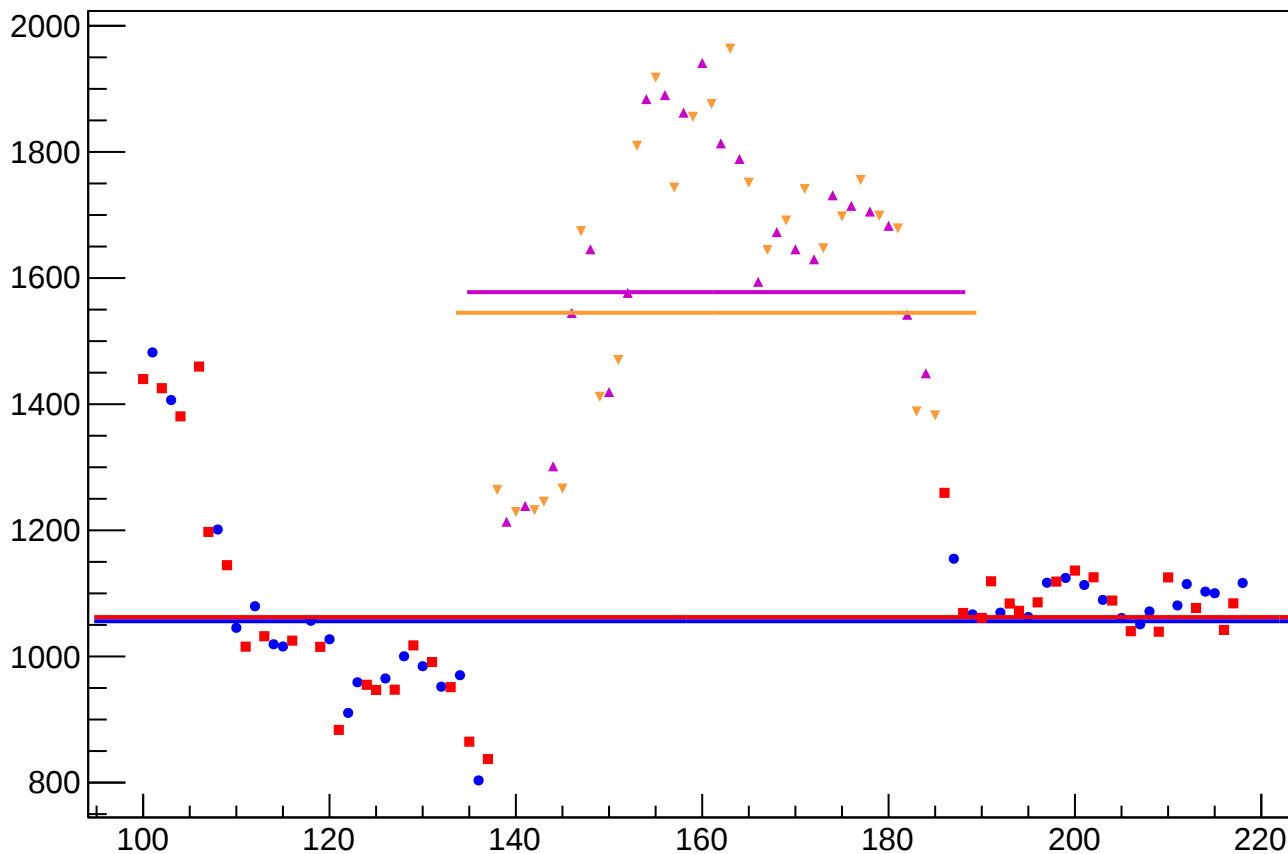
Right: -0.637 ± 0.175 χ^2/NDF : 9462.9/68

In: -4.025 ± 0.208 χ^2/NDF : 2344.7/55

Out: 1.538 ± 0.204 χ^2/NDF : 9334.5/60

All: -1.186 ± 0.146 χ^2/NDF : 12042.5/116

diff_bpm0l04Y_rms vs Slug, Sign Corrected



Right In: 1055.848 $\pm$ 0.176 χ^2 /NDF: 429408.7/32

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

Right Out: 1062.447 $\pm$ 0.174 χ^2 /NDF: 394300.1/35

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

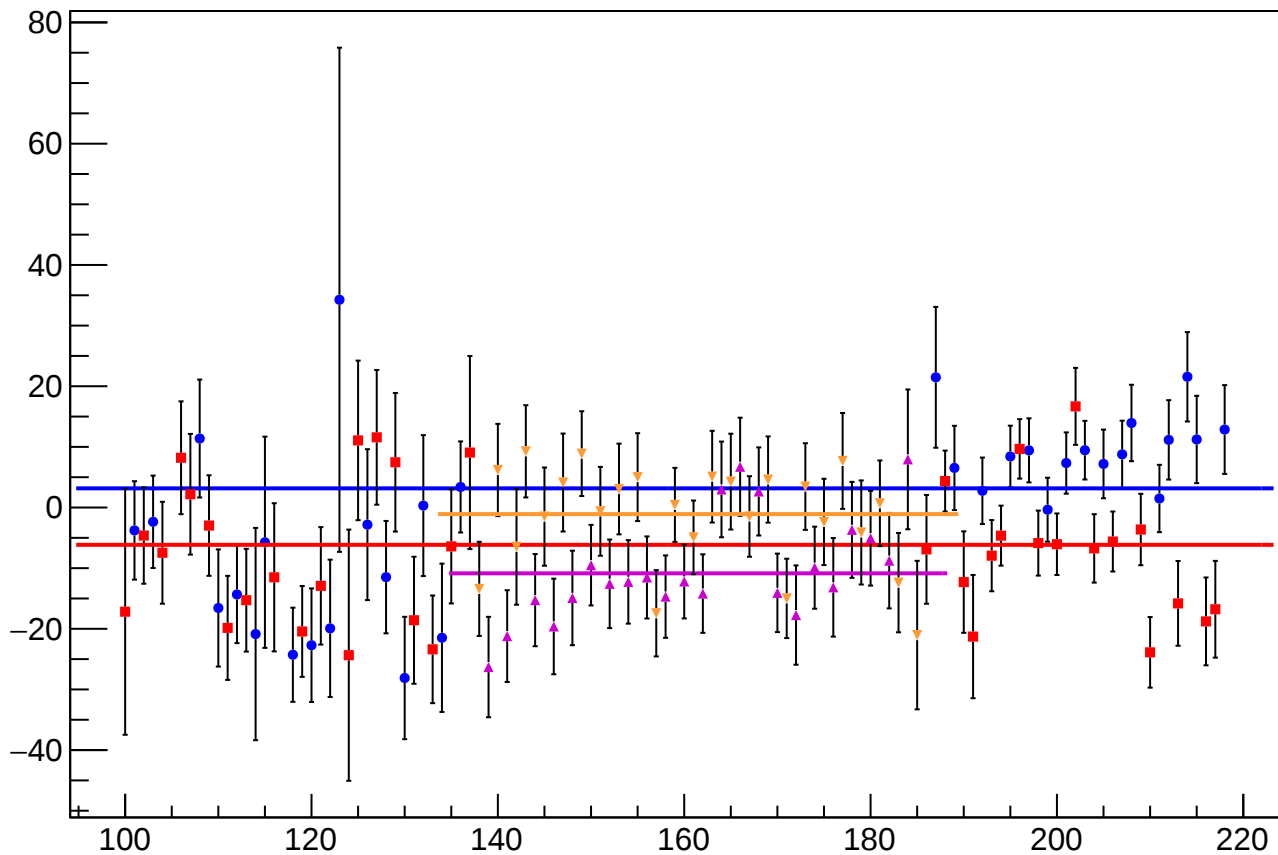
Right: 1059.176 $\pm$ 0.124 χ^2 /NDF: 824419.7/68

In: 1210.544 $\pm$ 0.147 χ^2 /NDF: 3668312.4/55

Out: 1213.654 $\pm$ 0.144 χ^2 /NDF: 3640961.8/60

All: 1212.131 $\pm$ 0.103 χ^2 /NDF: 7309501.3/115

diff_bpm0l05X_mean vs Slug, Sign Corrected



Right In: 3.160 ± 1.263 $\chi^2/\text{NDF}: 77.7/32$

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

Right Out: -6.153 ± 1.227 $\chi^2/\text{NDF}: 71.0/35$

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

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

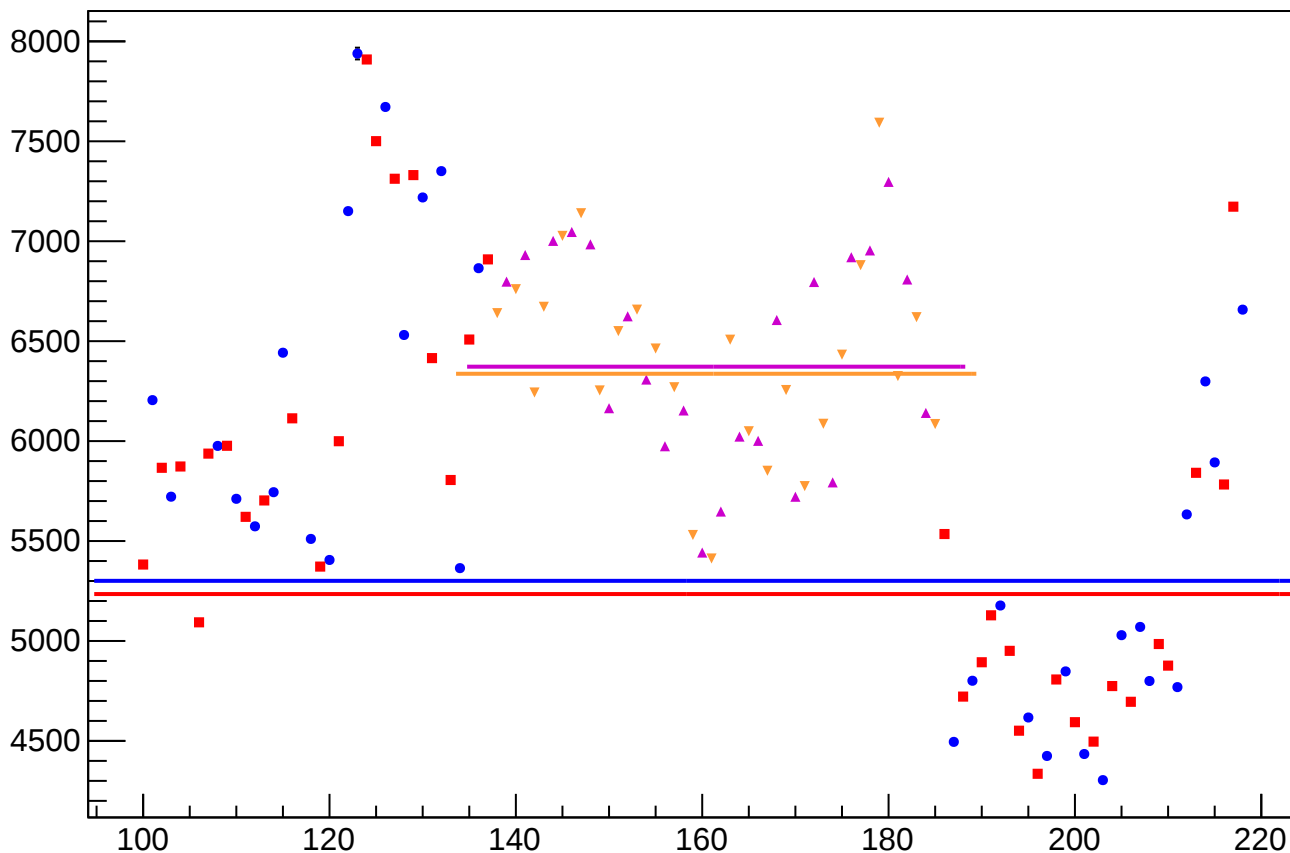
Right: -1.630 ± 0.880 $\chi^2/\text{NDF}: 176.7/68$

In: -2.466 ± 0.977 $\chi^2/\text{NDF}: 151.5/55$

Out: -4.100 ± 0.946 $\chi^2/\text{NDF}: 105.5/60$

All: -3.309 ± 0.680 $\chi^2/\text{NDF}: 258.4/116$

diff_bpm0l05X_rms vs Slug, Sign Corrected



Right In: 5300.842 $\pm$ 0.893 χ^2/NDF : 882803.0/32

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

Right Out: 5234.737 $\pm$ 0.868 χ^2/NDF : 808049.4/35

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

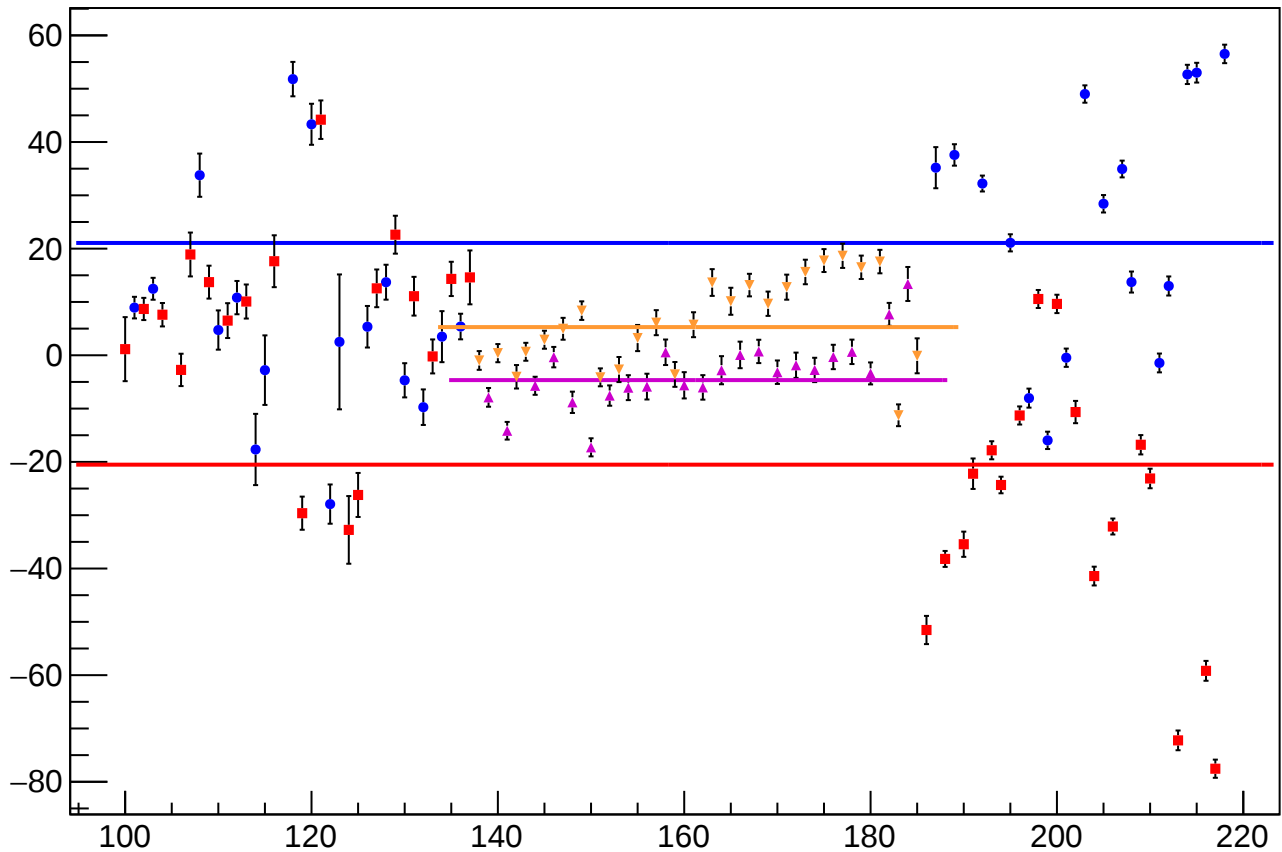
Right: 5266.839 $\pm$ 0.622 χ^2/NDF : 1693671.2/68

In: 5731.128 $\pm$ 0.691 χ^2/NDF : 1708248.5/55

Out: 5681.157 $\pm$ 0.669 χ^2/NDF : 1684502.6/60

All: 5705.352 $\pm$ 0.481 χ^2/NDF : 3395450.3/111

diff_bpm0l05Y_mean vs Slug, Sign Corrected



Right In: 21.067 ± 0.385 χ^2/NDF : 3361.6/32

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

Right Out: -20.519 ± 0.380 χ^2/NDF : 5256.4/35

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

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

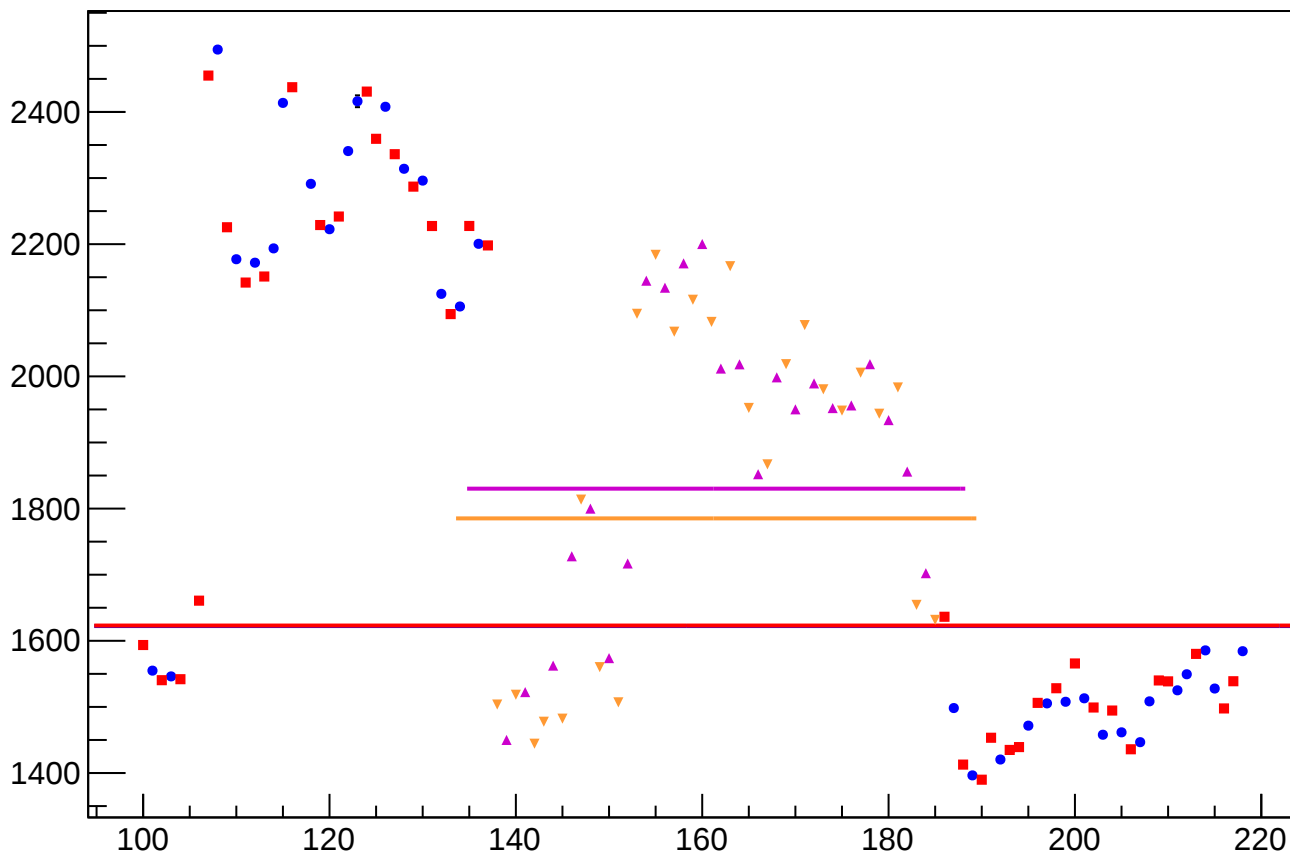
Right: -0.007 ± 0.271 χ^2/NDF : 14517.1/68

In: 9.993 ± 0.291 χ^2/NDF : 5475.6/55

Out: -8.916 ± 0.282 χ^2/NDF : 7692.9/60

All: 0.249 ± 0.203 χ^2/NDF : 15346.3/116

diff_bpm0l05Y_rms vs Slug, Sign Corrected



Right In: 1622.314 ± 0.273 $\chi^2/\text{NDF}: 1104121.4/32$

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

Right Out: 1623.093 ± 0.269 $\chi^2/\text{NDF}: 1111884.8/35$

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

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

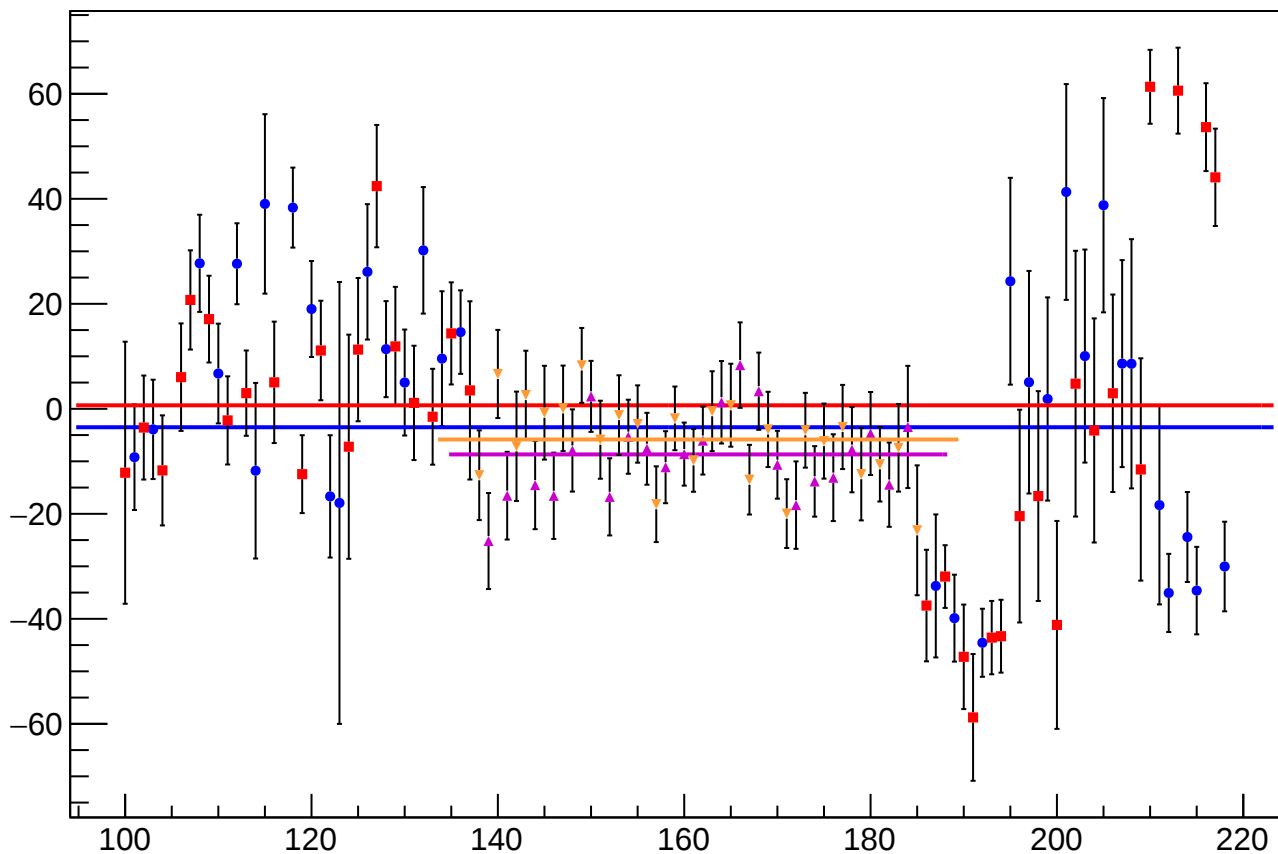
Right: 1622.709 ± 0.191 $\chi^2/\text{NDF}: 2216010.4/68$

In: 1711.788 ± 0.206 $\chi^2/\text{NDF}: 1862866.3/55$

Out: 1695.977 ± 0.199 $\chi^2/\text{NDF}: 2025908.1/60$

All: 1703.640 ± 0.143 $\chi^2/\text{NDF}: 3891819.6/11$

diff_bpm0l06X_mean vs Slug, Sign Corrected



Right In: -3.509 $\pm$ 1.868 χ^2/NDF : 220.8/32

Left Out: -5.840 $\pm$ 1.518 χ^2/NDF : 23.3/24

Right Out: 0.668 $\pm$ 1.685 χ^2/NDF : 399.0/35

Left In: -8.683 $\pm$ 1.571 χ^2/NDF : 21.9/22

Left: -7.214 $\pm$ 1.092 χ^2/NDF : 47.0/47

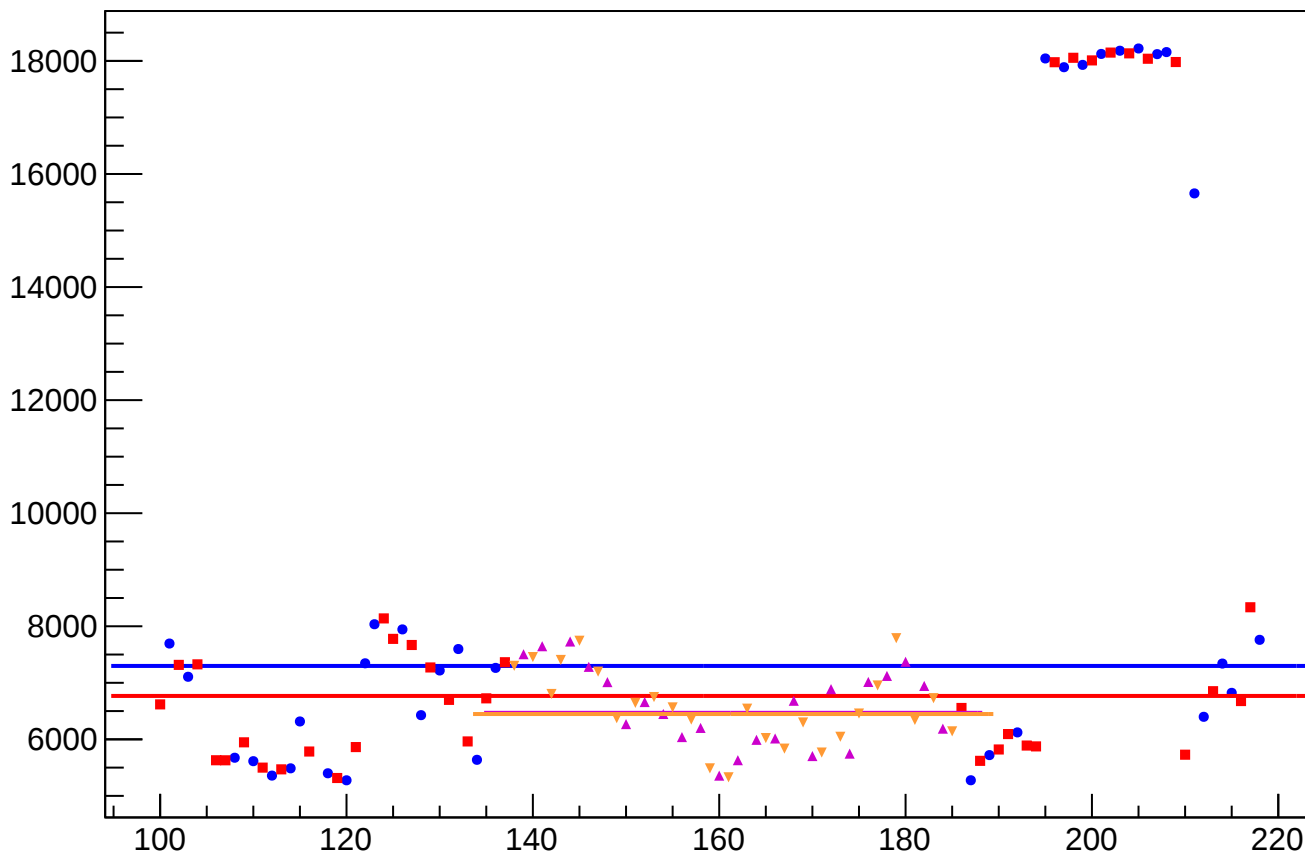
Right: -1.207 $\pm$ 1.251 χ^2/NDF : 622.5/68

In: -6.540 $\pm$ 1.202 χ^2/NDF : 247.2/55

Out: -2.925 $\pm$ 1.128 χ^2/NDF : 430.5/60

All: -4.617 $\pm$ 0.823 χ^2/NDF : 682.5/116

diff_bpm0l06X_rms vs Slug, Sign Corrected



Right In: 7298.446 ± 1.321 $\chi^2/\text{NDF}: 5603270.5/32$

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

Right Out: 6767.751 ± 1.192 $\chi^2/\text{NDF}: 4755446.6/35$

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

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

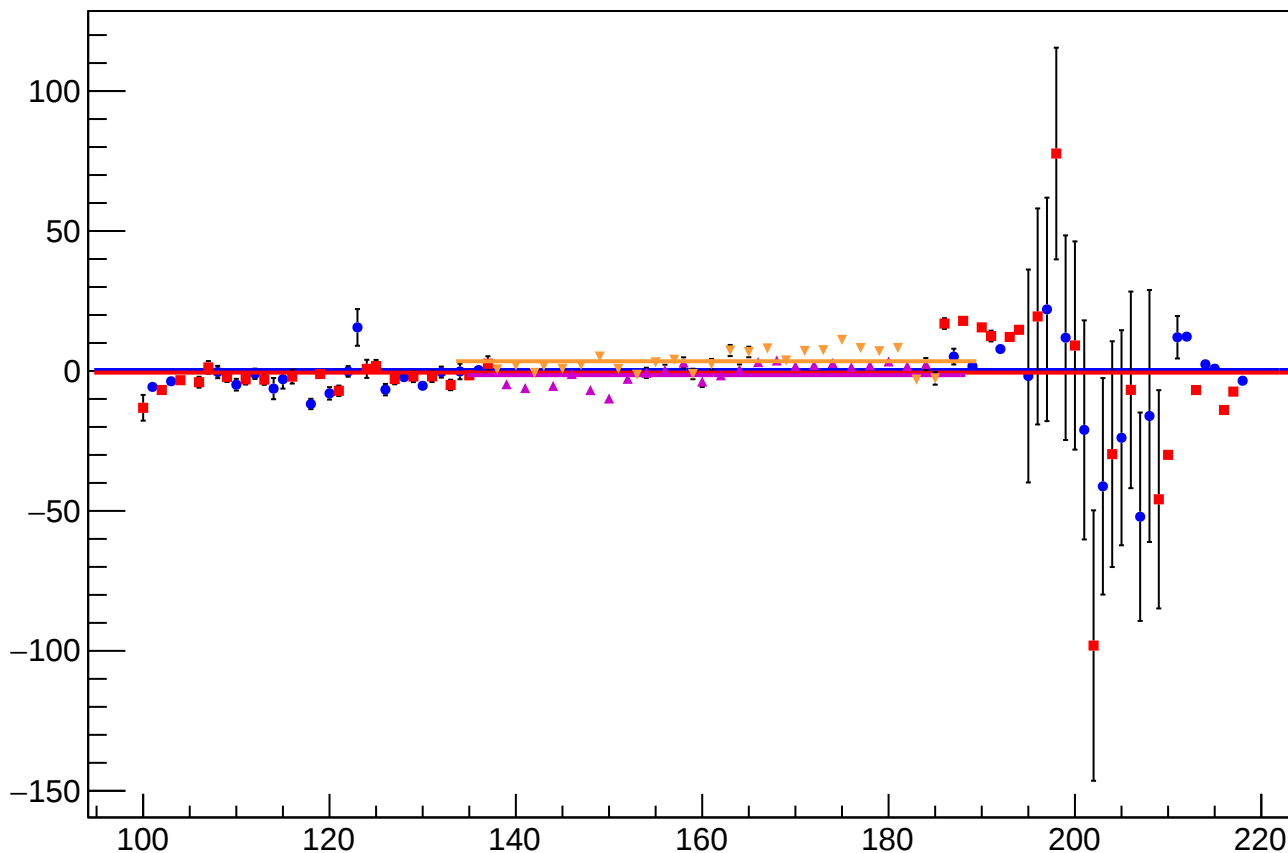
Right: 7005.960 ± 0.885 $\chi^2/\text{NDF}: 10447724.1/68$

In: 6812.546 ± 0.850 $\chi^2/\text{NDF}: 6217728.3/55$

Out: 6591.083 ± 0.798 $\chi^2/\text{NDF}: 5166926.6/60$

All: 6694.793 ± 0.582 $\chi^2/\text{NDF}: 11420752.8/117$

diff_bpm0l06Y_mean vs Slug, Sign Corrected



Right In: 0.333 ± 0.329 χ^2/NDF : 306.5/32

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

Right Out: -0.593 ± 0.301 χ^2/NDF : 1583.1/35

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

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

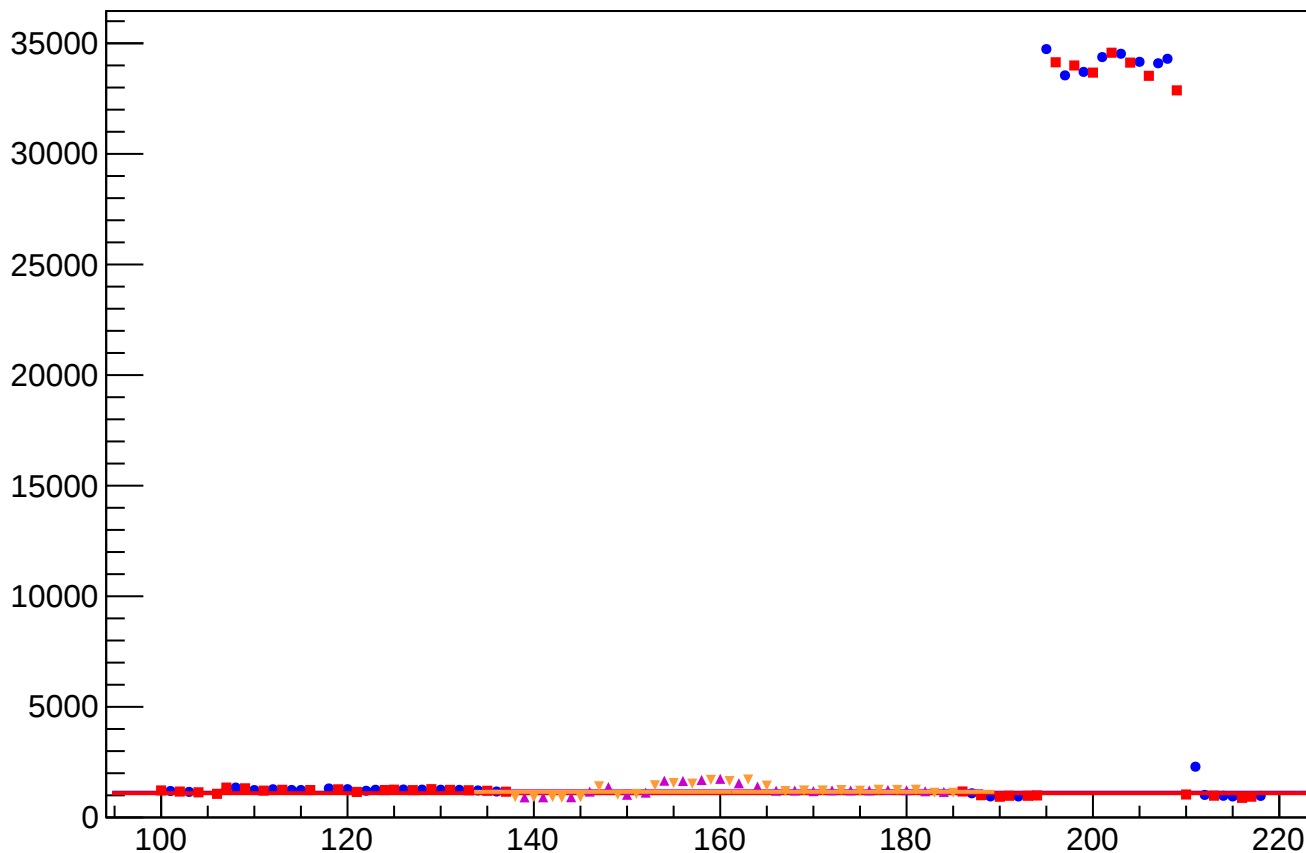
Right: -0.171 ± 0.222 χ^2/NDF : 1894.0/68

In: -0.697 ± 0.218 χ^2/NDF : 526.7/55

Out: 1.612 ± 0.204 χ^2/NDF : 1858.0/60

All: 0.535 ± 0.149 χ^2/NDF : 2444.7/116

diff_bpm0l06Y_rms vs Slug, Sign Corrected



Right In: 1118.799 $\pm$ 0.232 χ^2/NDF : 11948210.2/32

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

Right Out: 1096.474 $\pm$ 0.213 χ^2/NDF : 10253559.4/35

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

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

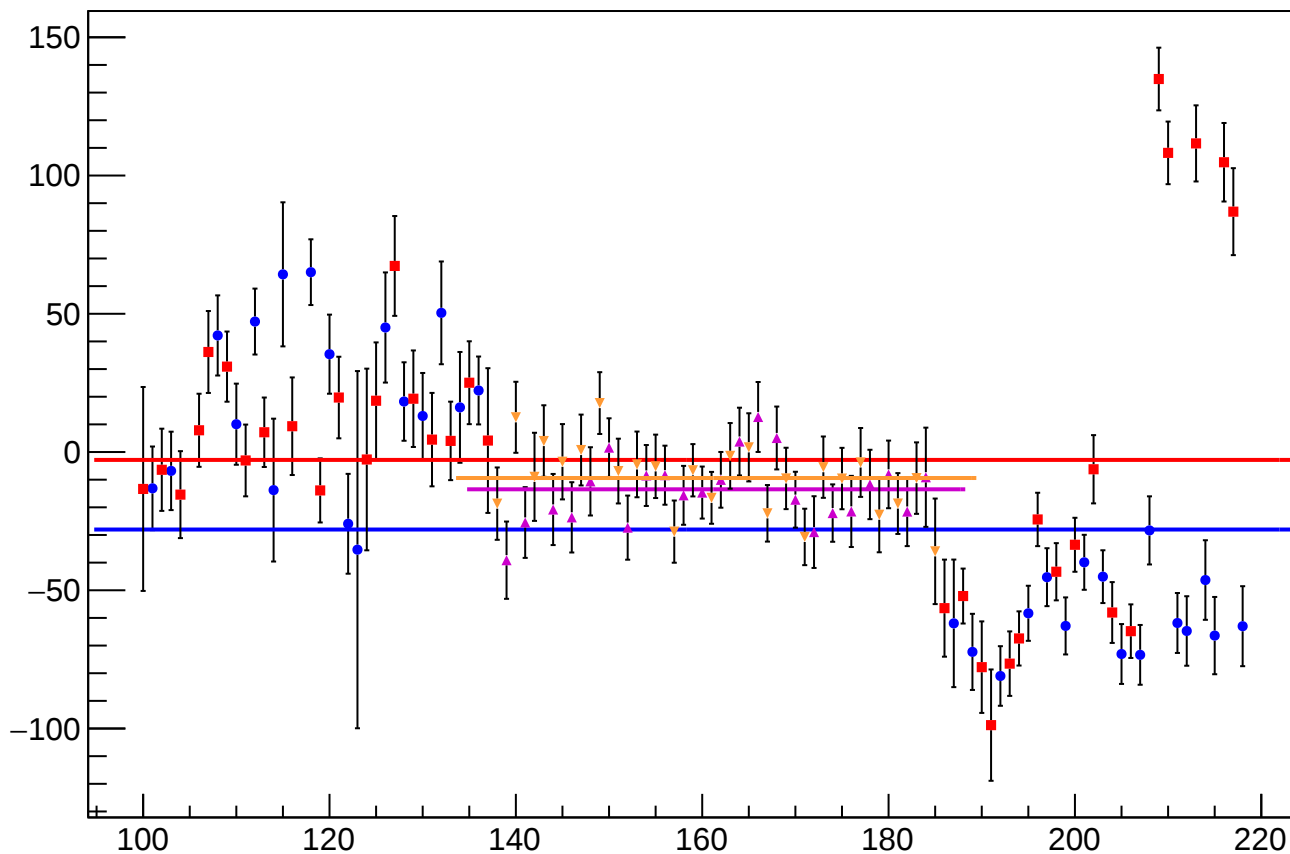
Right: 1106.656 $\pm$ 0.157 χ^2/NDF : 22206788.9/68

In: 1155.930 $\pm$ 0.154 χ^2/NDF : 13184129.6/55

Out: 1130.338 $\pm$ 0.144 χ^2/NDF : 11710656.3/60

All: 1142.275 $\pm$ 0.105 χ^2/NDF : 24909530.5/100

diff_bpm0l07X_mean vs Slug, Sign Corrected



Right In: -28.029 ± 2.316 $\chi^2/\text{NDF}: 370.3/32$

Left Out: -9.398 ± 2.358 $\chi^2/\text{NDF}: 26.3/24$

Right Out: -2.852 ± 2.234 $\chi^2/\text{NDF}: 701.3/35$

Left In: -13.485 ± 2.443 $\chi^2/\text{NDF}: 21.6/22$

Left: -11.369 ± 1.697 $\chi^2/\text{NDF}: 49.3/47$

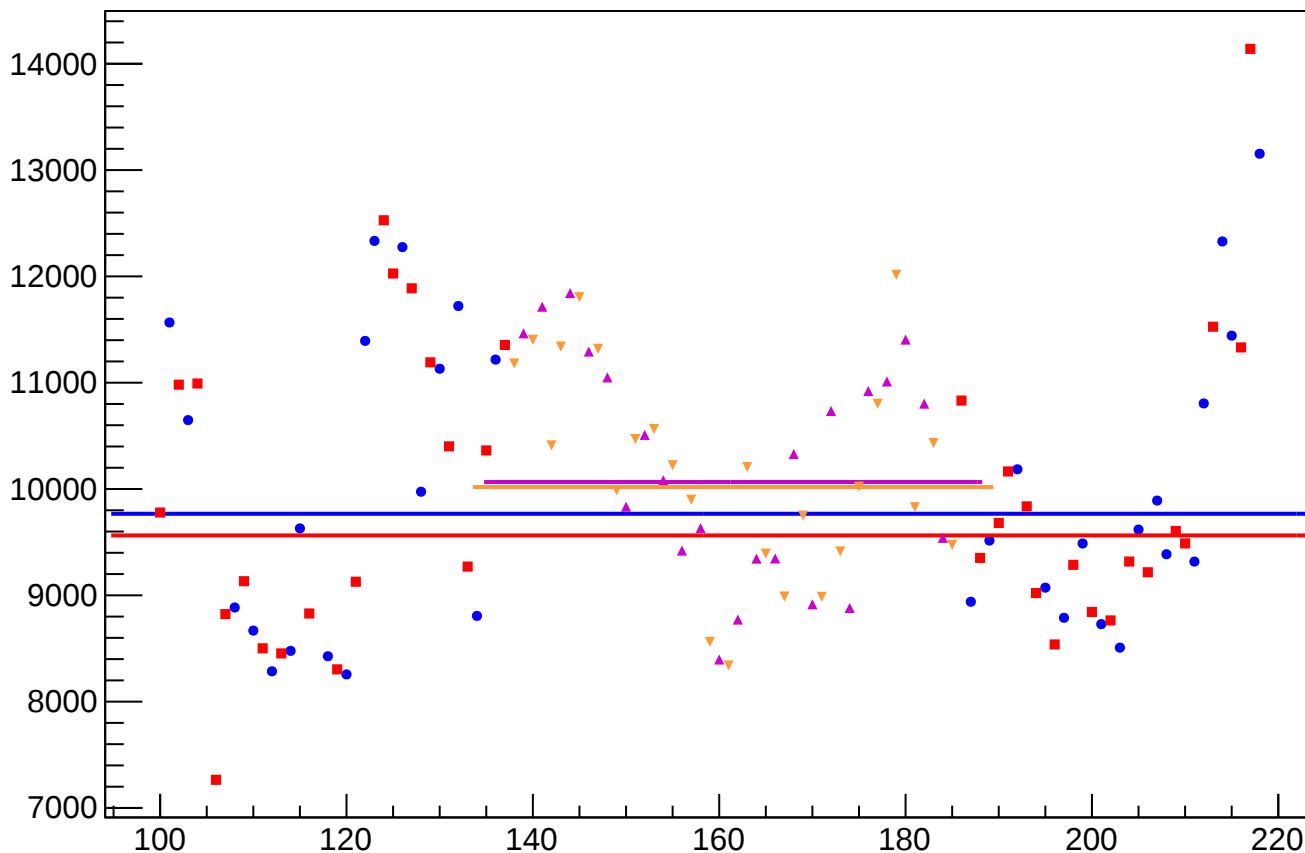
Right: -14.983 ± 1.608 $\chi^2/\text{NDF}: 1132.8/68$

In: -21.143 ± 1.681 $\chi^2/\text{NDF}: 410.5/55$

Out: -5.947 ± 1.622 $\chi^2/\text{NDF}: 731.6/60$

All: -13.273 ± 1.167 $\chi^2/\text{NDF}: 1184.5/116$

diff_bpm0l07X_rms vs Slug, Sign Corrected



Right In: 9767.233 ± 1.638 $\chi^2/\text{NDF}: 572729.0/32$

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

Right Out: 9563.493 ± 1.580 $\chi^2/\text{NDF}: 583874.5/35$

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

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

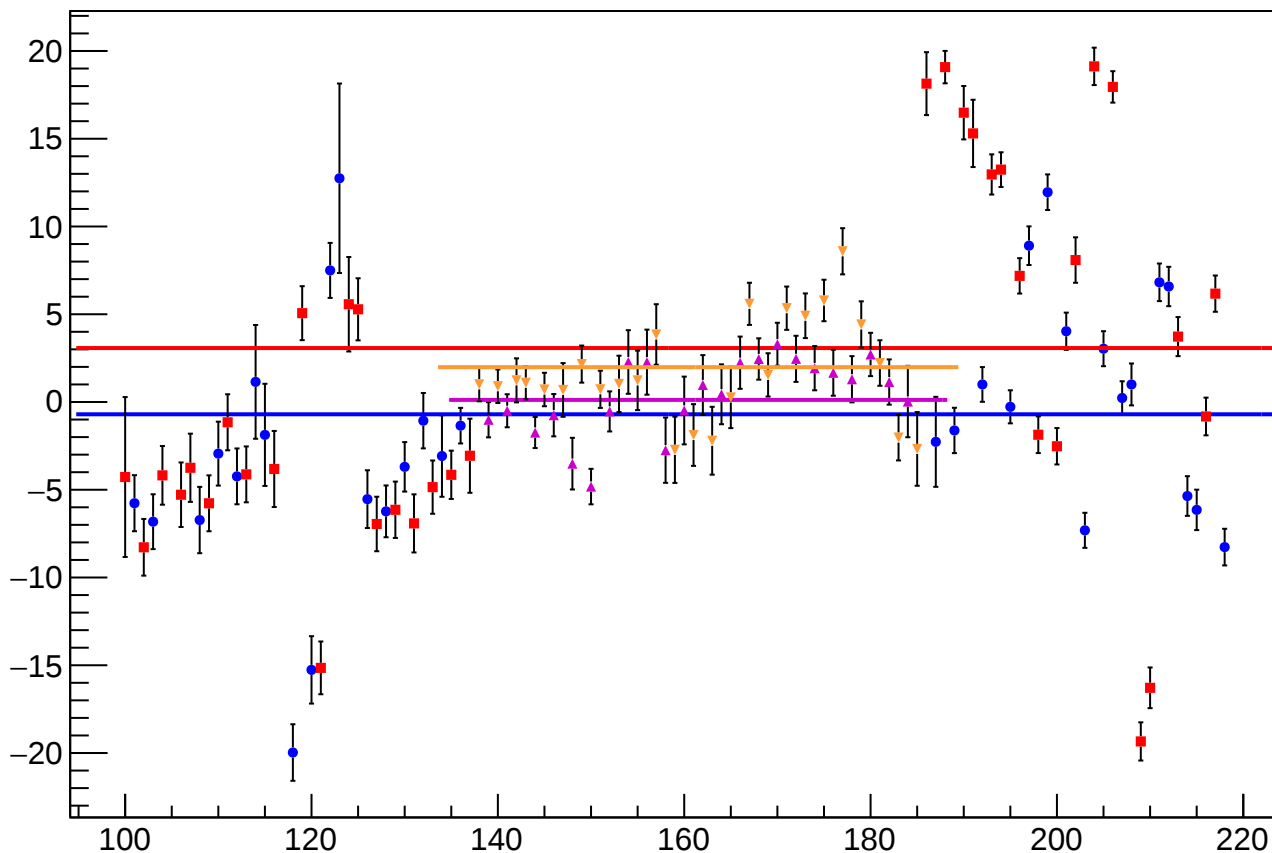
Right: 9661.663 ± 1.137 $\chi^2/\text{NDF}: 1164620.1/68$

In: 9908.648 ± 1.189 $\chi^2/\text{NDF}: 946340.2/55$

Out: 9778.685 ± 1.147 $\chi^2/\text{NDF}: 967658.6/60$

All: 9841.343 ± 0.825 $\chi^2/\text{NDF}: 1920190.7/11$

diff_bpm0l07Y_mean vs Slug, Sign Corrected



Right In: -0.700 ± 0.226 $\chi^2/\text{NDF}: 805.3/32$

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

Right Out: 3.075 ± 0.223 $\chi^2/\text{NDF}: 2478.5/35$

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

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

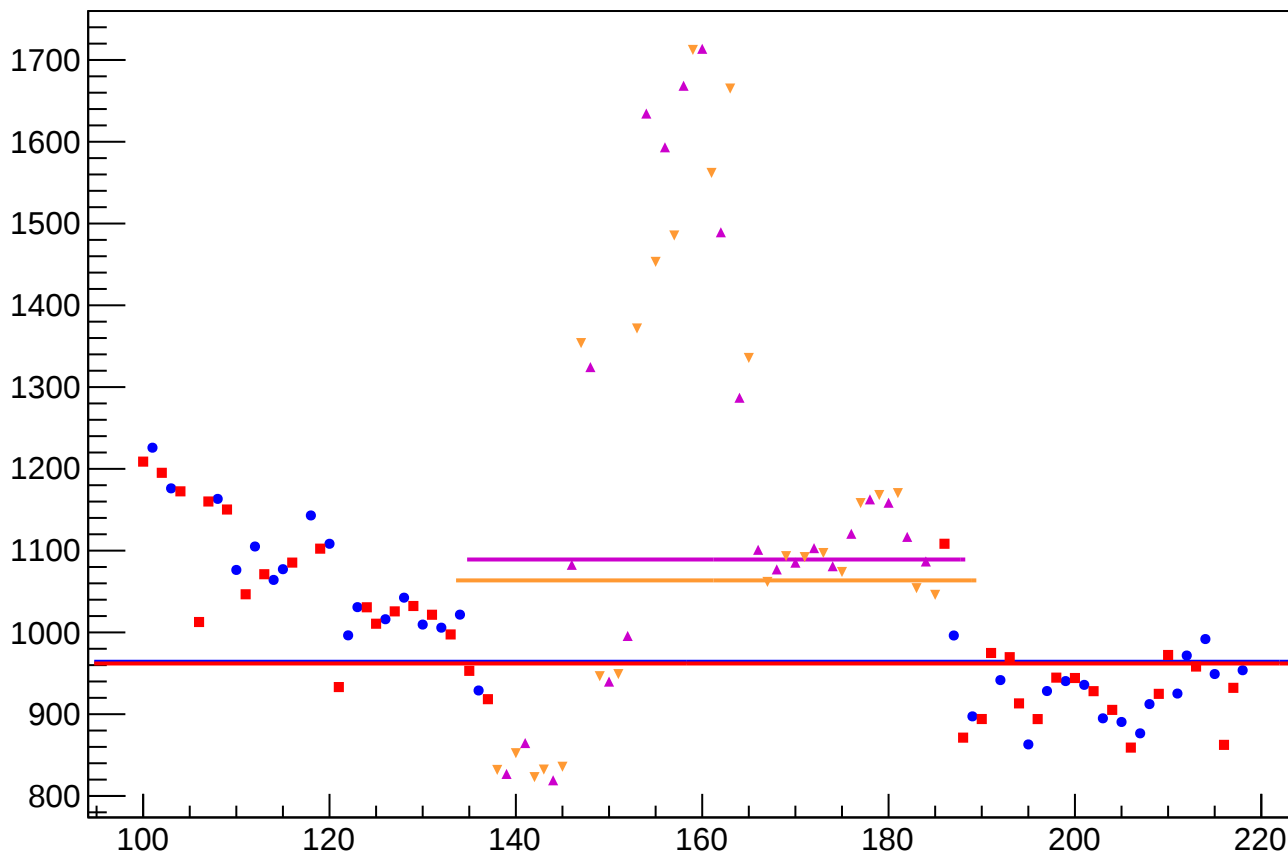
Right: 1.218 ± 0.159 $\chi^2/\text{NDF}: 3425.0/68$

In: -0.360 ± 0.173 $\chi^2/\text{NDF}: 878.3/55$

Out: 2.602 ± 0.168 $\chi^2/\text{NDF}: 2590.1/60$

All: 1.169 ± 0.120 $\chi^2/\text{NDF}: 3619.4/116$

diff_bpm0l07Y_rms vs Slug, Sign Corrected



Right In: 964.113 ± 0.160 χ^2/NDF : 272758.9/32

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

Right Out: 961.989 ± 0.158 χ^2/NDF : 289738.5/35

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

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

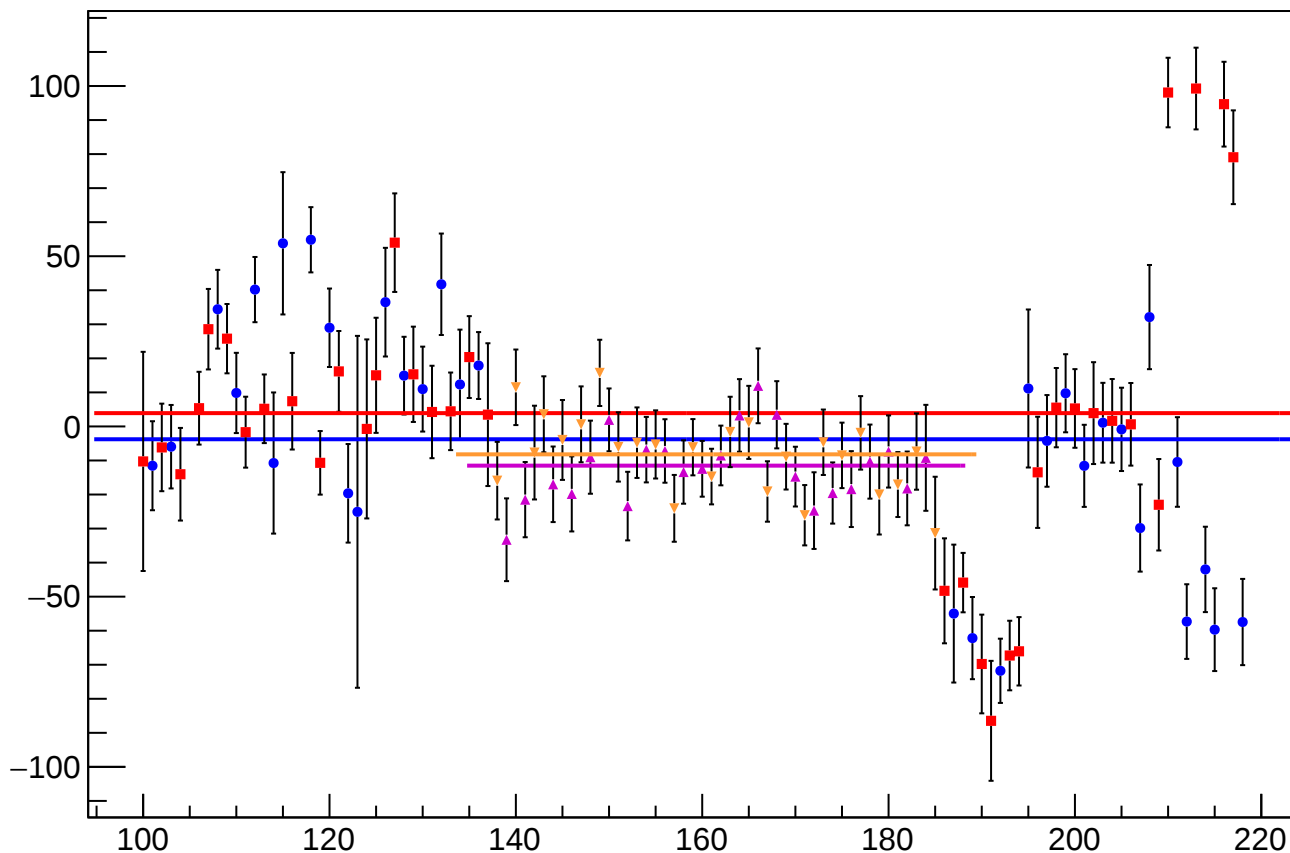
Right: 963.034 ± 0.112 χ^2/NDF : 562586.8/68

In: 1016.046 ± 0.122 χ^2/NDF : 1956481.9/55

Out: 1006.012 ± 0.119 χ^2/NDF : 2087361.3/60

All: 1010.869 ± 0.085 χ^2/NDF : 4047307.9/11

diff_bpm0l08X_mean vs Slug, Sign Corrected



Right In: -3.765 ± 2.219 $\chi^2/\text{NDF}: 280.2/32$

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

Right Out: 3.910 ± 2.073 $\chi^2/\text{NDF}: 459.9/35$

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

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

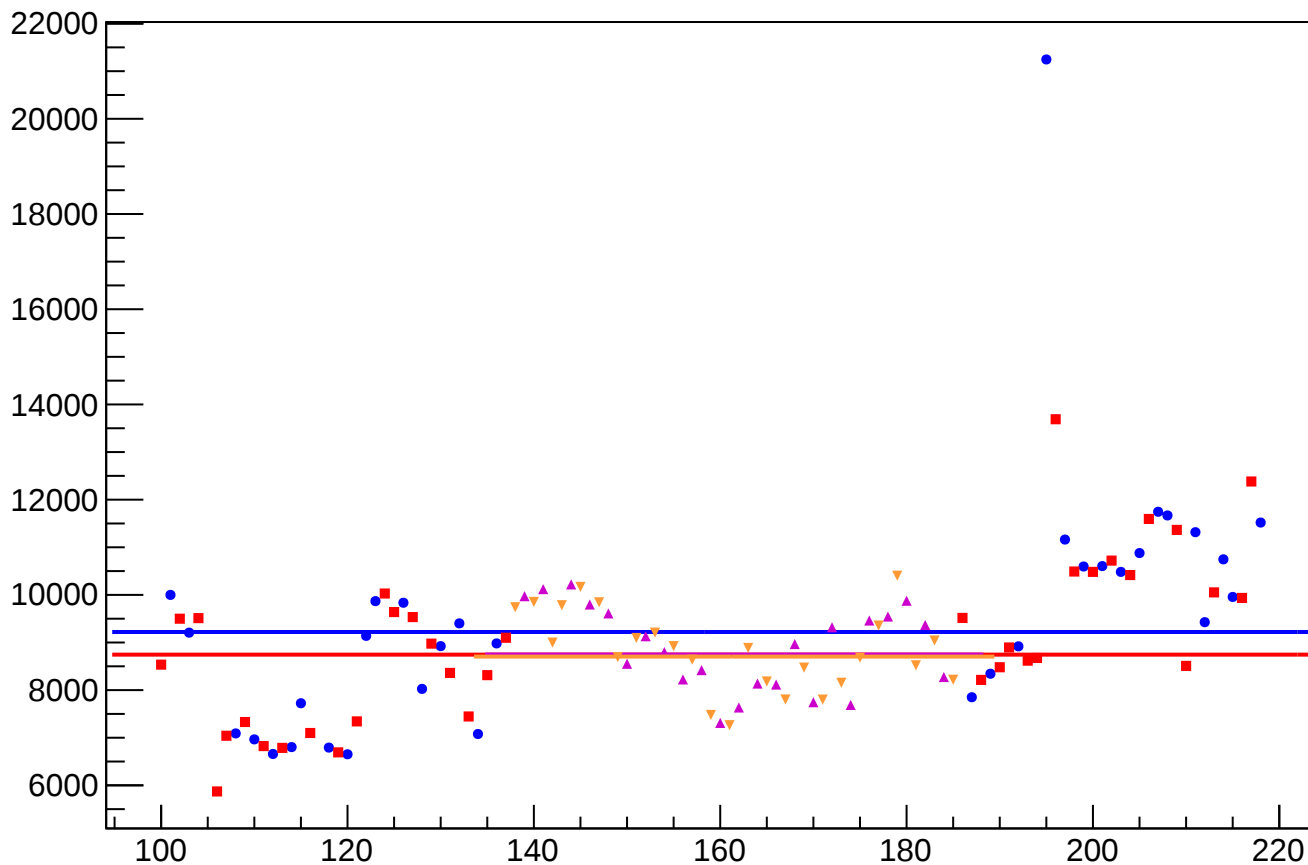
Right: 0.333 ± 1.515 $\chi^2/\text{NDF}: 746.5/68$

In: -7.812 ± 1.534 $\chi^2/\text{NDF}: 307.7/55$

Out: -2.213 ± 1.457 $\chi^2/\text{NDF}: 503.3/60$

All: -4.869 ± 1.056 $\chi^2/\text{NDF}: 817.9/116$

diff_bpm0l08X_rms vs Slug, Sign Corrected



Right In: 9220.811+/-1.569 χ^2/NDF : 1618303.4/32

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

Right Out: 8745.204+/-1.466 χ^2/NDF : 1308610.0/35

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

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

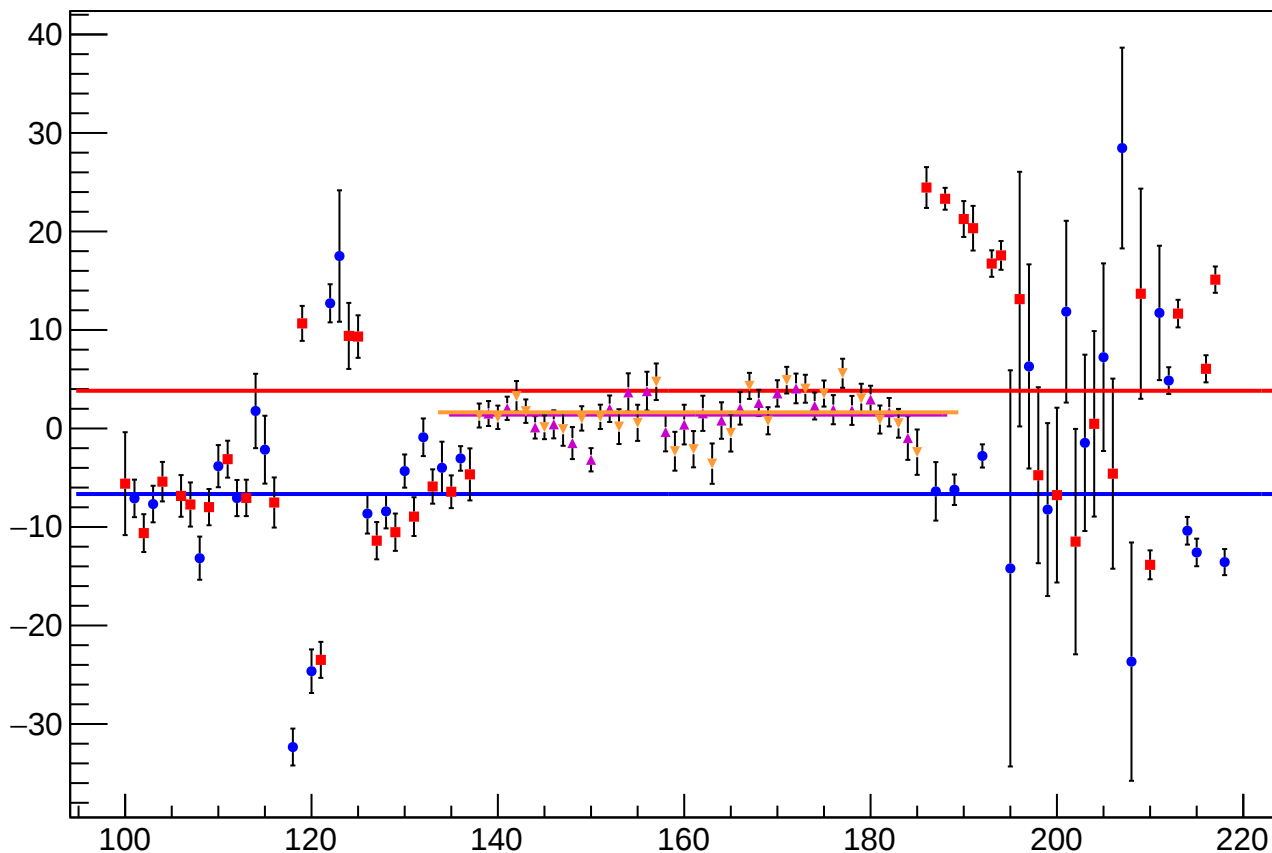
Right: 8966.842+/-1.071 χ^2/NDF : 2975991.9/68

In: 8973.619+/-1.084 χ^2/NDF : 2012960.5/55

Out: 8724.460+/-1.030 χ^2/NDF : 1641370.4/60

All: 8842.660+/-0.747 χ^2/NDF : 3682076.7/11

diff_bpm0l08Y_mean vs Slug, Sign Corrected



Right In: -6.655 ± 0.360 $\chi^2/\text{NDF}: 572.4/32$

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

Right Out: 3.828 ± 0.328 $\chi^2/\text{NDF}: 1723.3/35$

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

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

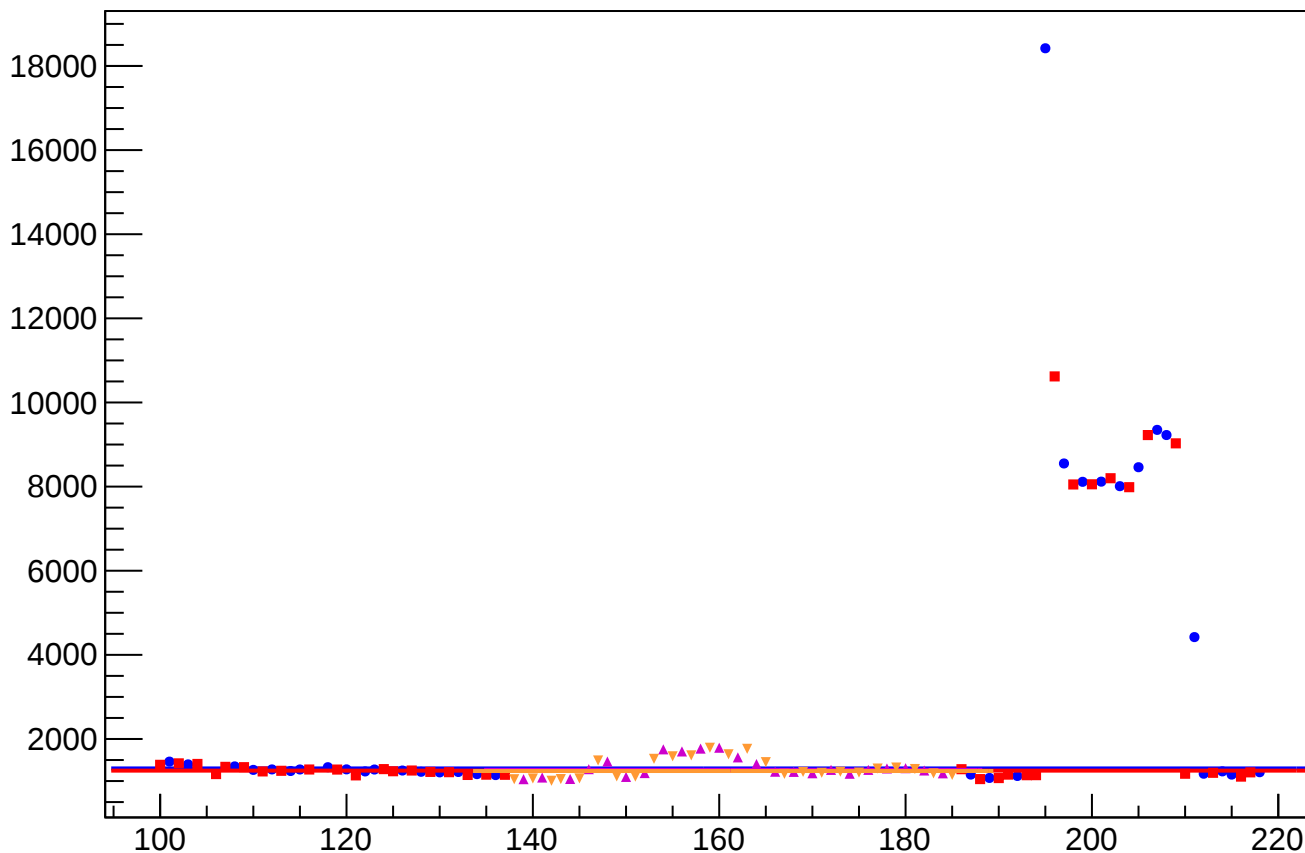
Right: -0.926 ± 0.243 $\chi^2/\text{NDF}: 2757.8/68$

In: -2.009 ± 0.235 $\chi^2/\text{NDF}: 894.6/55$

Out: 2.612 ± 0.219 $\chi^2/\text{NDF}: 1799.3/60$

All: 0.461 ± 0.160 $\chi^2/\text{NDF}: 2901.3/116$

diff_bpm0l08Y_rms vs Slug, Sign Corrected



Right In: 1299.938+/-0.255 χ^2/NDF : 9731632.7/32

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

Right Out: 1247.862+/-0.232 χ^2/NDF : 7793597.6/35

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

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

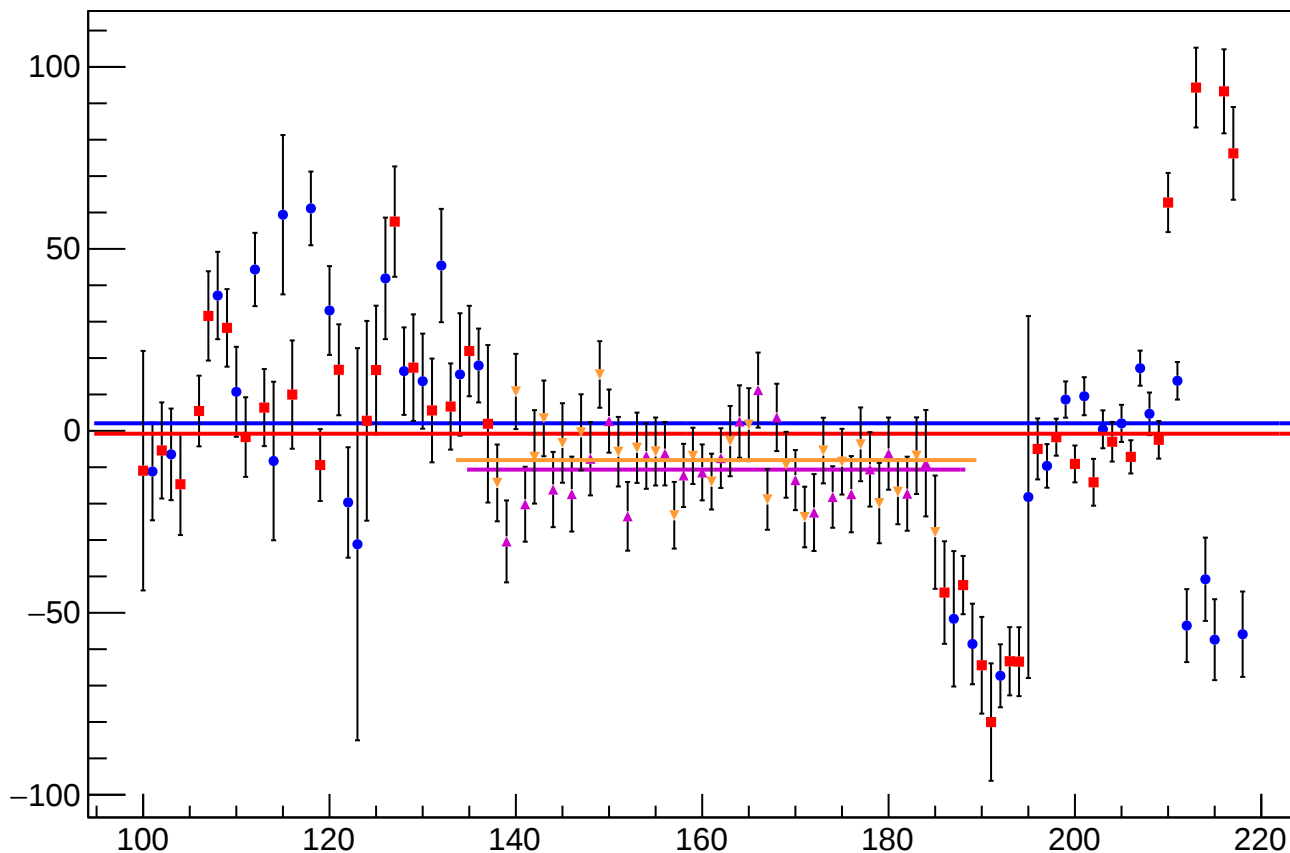
Right: 1271.482+/-0.172 χ^2/NDF : 17548036.3/68

In: 1280.185+/-0.166 χ^2/NDF : 10587206.1/55

Out: 1242.624+/-0.155 χ^2/NDF : 8759686.2/60

All: 1260.105+/-0.113 χ^2/NDF : 19374300.4/100

diff_bpm0l09X_mean vs Slug, Sign Corrected



Right In: 2.077 ± 1.504 $\chi^2/\text{NDF}: 320.4/32$

Left Out: -8.042 ± 1.918 $\chi^2/\text{NDF}: 26.3/24$

Right Out: -0.788 ± 1.515 $\chi^2/\text{NDF}: 461.6/35$

Left In: -10.653 ± 1.988 $\chi^2/\text{NDF}: 21.4/22$

Left: -9.301 ± 1.380 $\chi^2/\text{NDF}: 48.6/47$

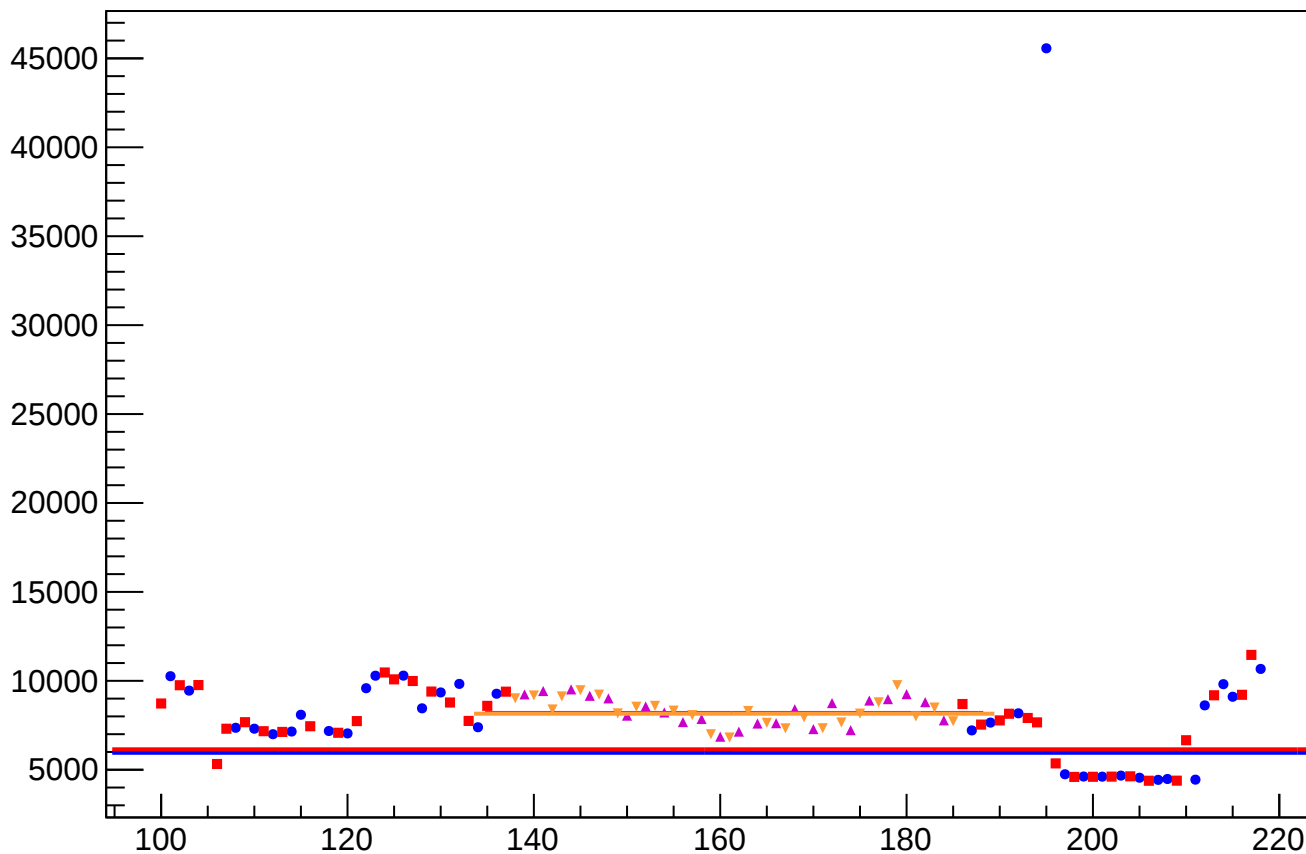
Right: 0.655 ± 1.068 $\chi^2/\text{NDF}: 783.8/68$

In: -2.559 ± 1.199 $\chi^2/\text{NDF}: 367.9/55$

Out: -3.575 ± 1.189 $\chi^2/\text{NDF}: 496.7/60$

All: -3.071 ± 0.844 $\chi^2/\text{NDF}: 864.9/116$

diff_bpm0l09X_rms vs Slug, Sign Corrected



Right In: 5954.752 $\pm$ 1.064

χ^2/NDF : 4776900.8/32

Left Out: 8151.489 $\pm$ 1.356

χ^2/NDF : 321803.3/24

Right Out: 6149.655 $\pm$ 1.071

χ^2/NDF : 3220170.4/35

Left In: 8193.636 $\pm$ 1.405

χ^2/NDF : 338377.6/22

Left: 8171.814 $\pm$ 0.976

χ^2/NDF : 660646.6/47

Right: 6051.487 $\pm$ 0.755

χ^2/NDF : 8013737.8/68

In: 6770.060 $\pm$ 0.848

χ^2/NDF : 6728885.6/55

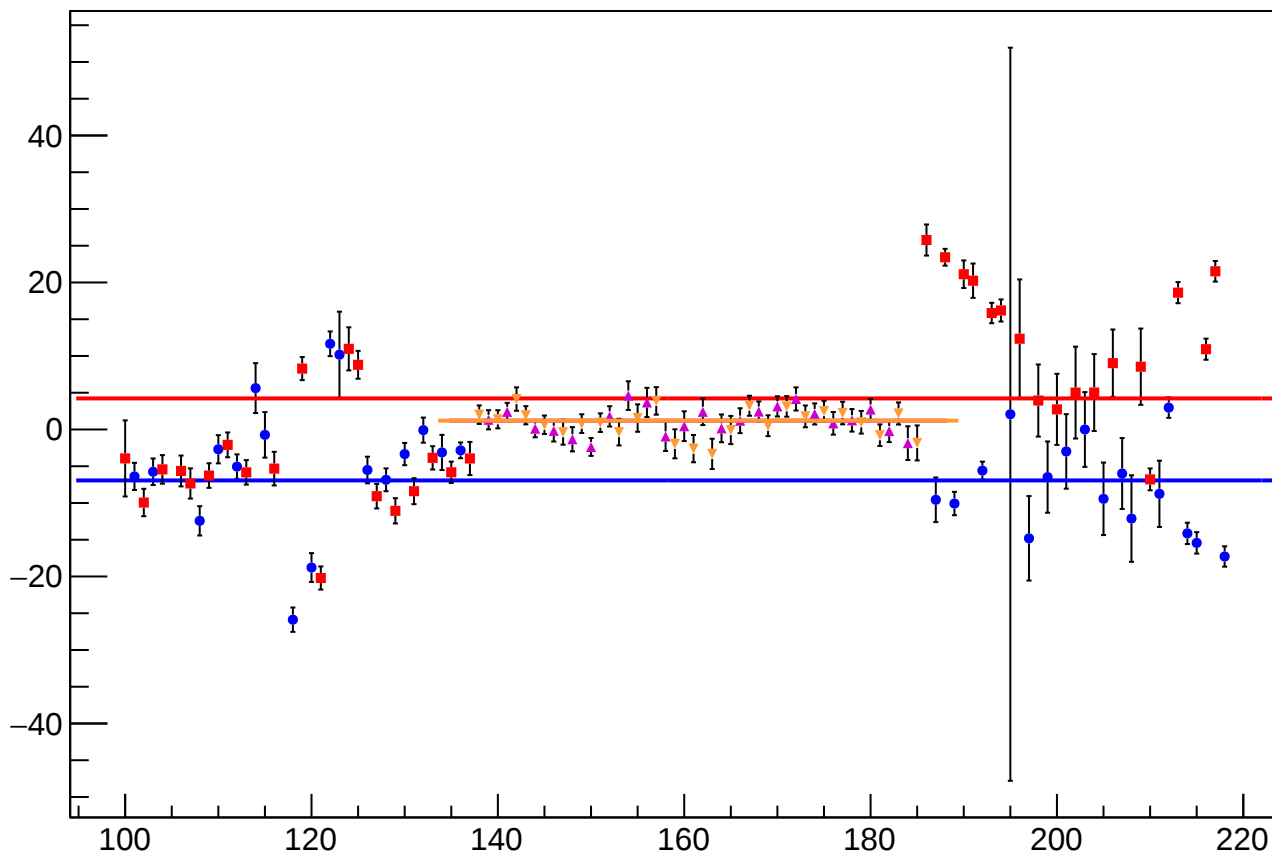
Out: 6918.858 $\pm$ 0.841

χ^2/NDF : 4883270.3/60

All: 6845.106 $\pm$ 0.597

χ^2/NDF : 11627680.4/1

diff_bpm0l09Y_mean vs Slug, Sign Corrected



Right In: -6.932 ± 0.339 χ^2/NDF : 546.1/32

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

Right Out: 4.226 ± 0.313 χ^2/NDF : 1764.9/35

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

Left: 1.201 ± 0.219 χ^2/NDF : 61.1/47

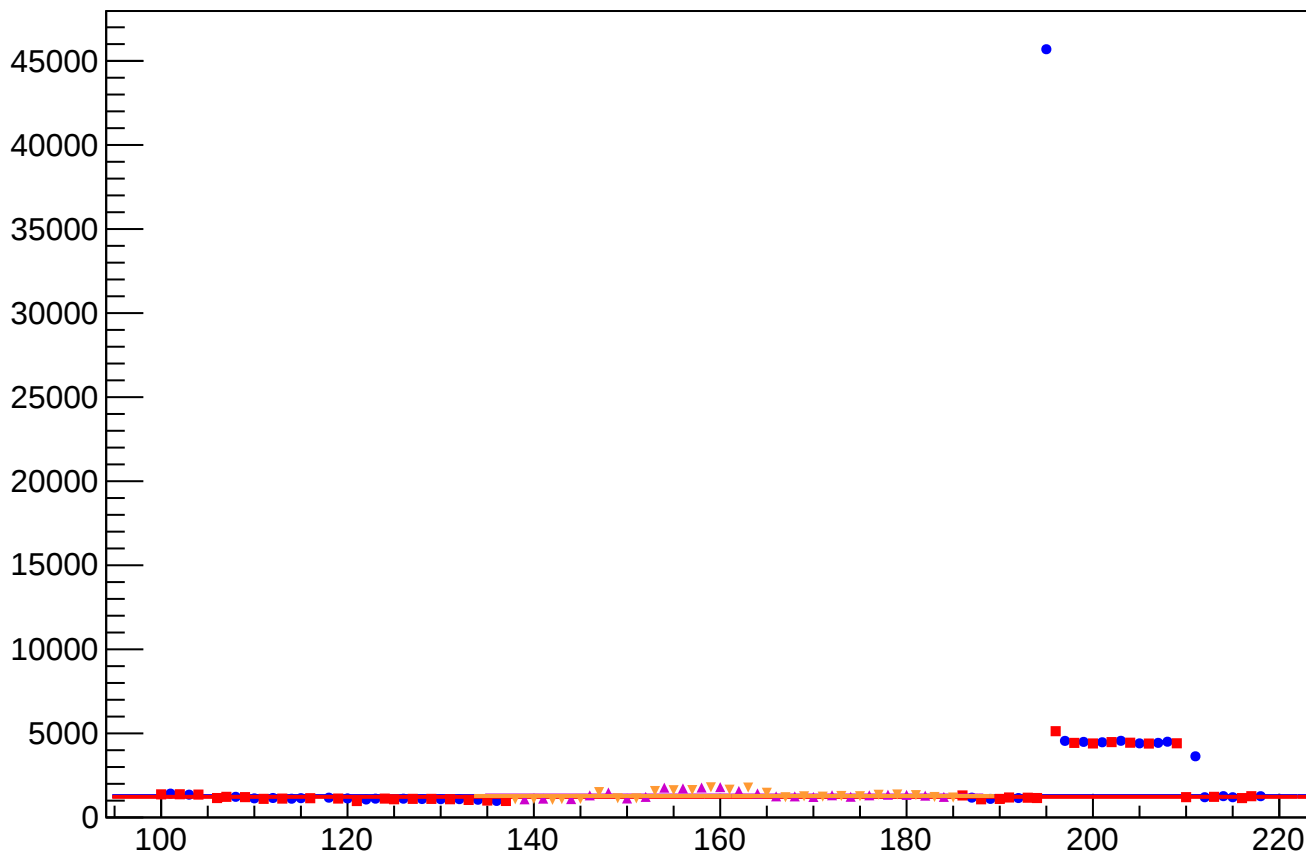
Right: -0.911 ± 0.230 χ^2/NDF : 2895.6/68

In: -2.610 ± 0.232 χ^2/NDF : 883.1/55

Out: 2.662 ± 0.218 χ^2/NDF : 1843.0/60

All: 0.195 ± 0.159 χ^2/NDF : 3000.9/116

diff_bpm0l09Y_rms vs Slug, Sign Corrected



Right In: 1272.305+/-0.240 χ^2/NDF : 7977578.0/32

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

Right Out: 1226.084+/-0.221 χ^2/NDF : 5507959.4/35

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

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

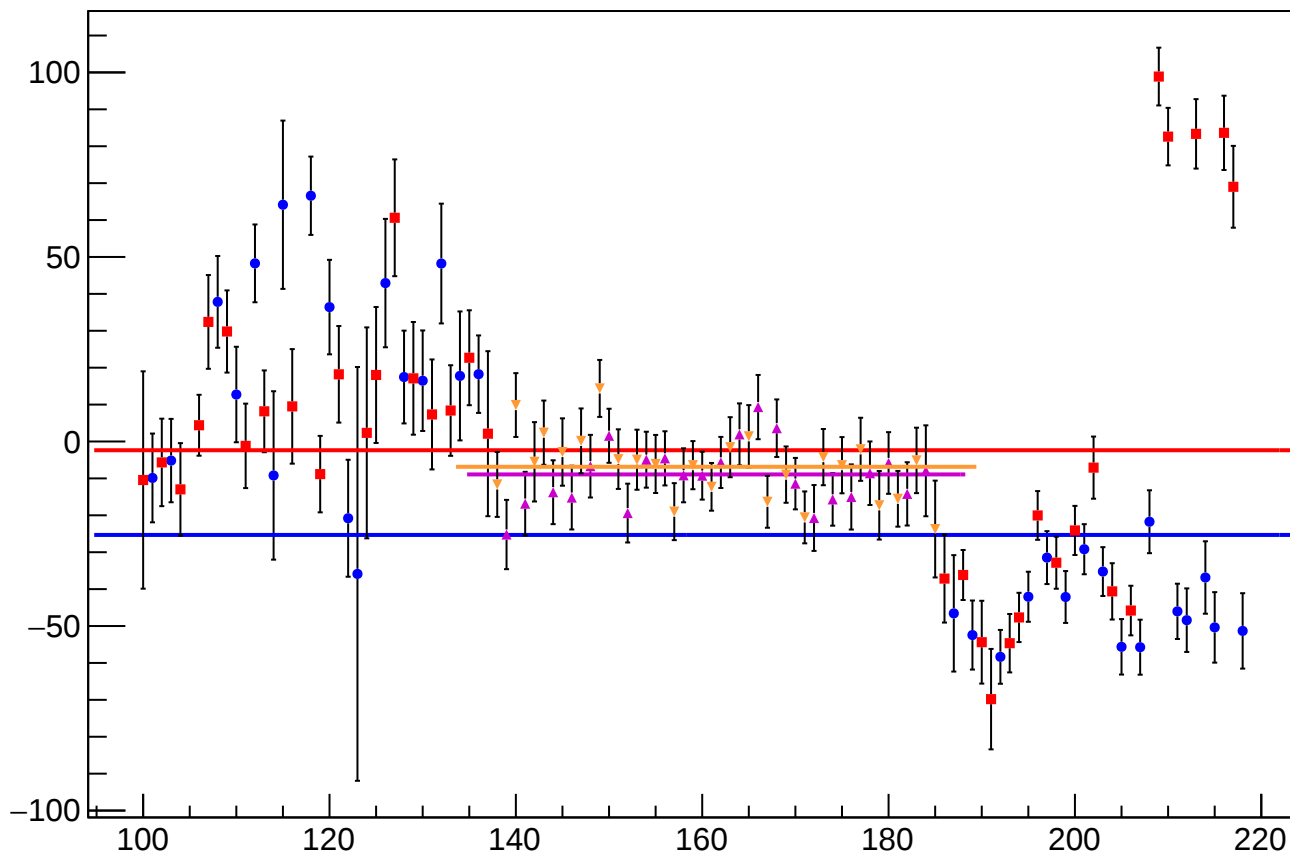
Right: 1247.364+/-0.163 χ^2/NDF : 13505599.9/68

In: 1289.976+/-0.164 χ^2/NDF : 8748250.3/55

Out: 1252.900+/-0.154 χ^2/NDF : 6414438.4/60

All: 1270.248+/-0.112 χ^2/NDF : 15189872.1/132

diff_bpm0l10X_mean vs Slug, Sign Corrected



Right In: -25.317 ± 1.709 χ^2/NDF : 391.1/32

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

Right Out: -2.370 ± 1.639 χ^2/NDF : 802.2/35

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

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

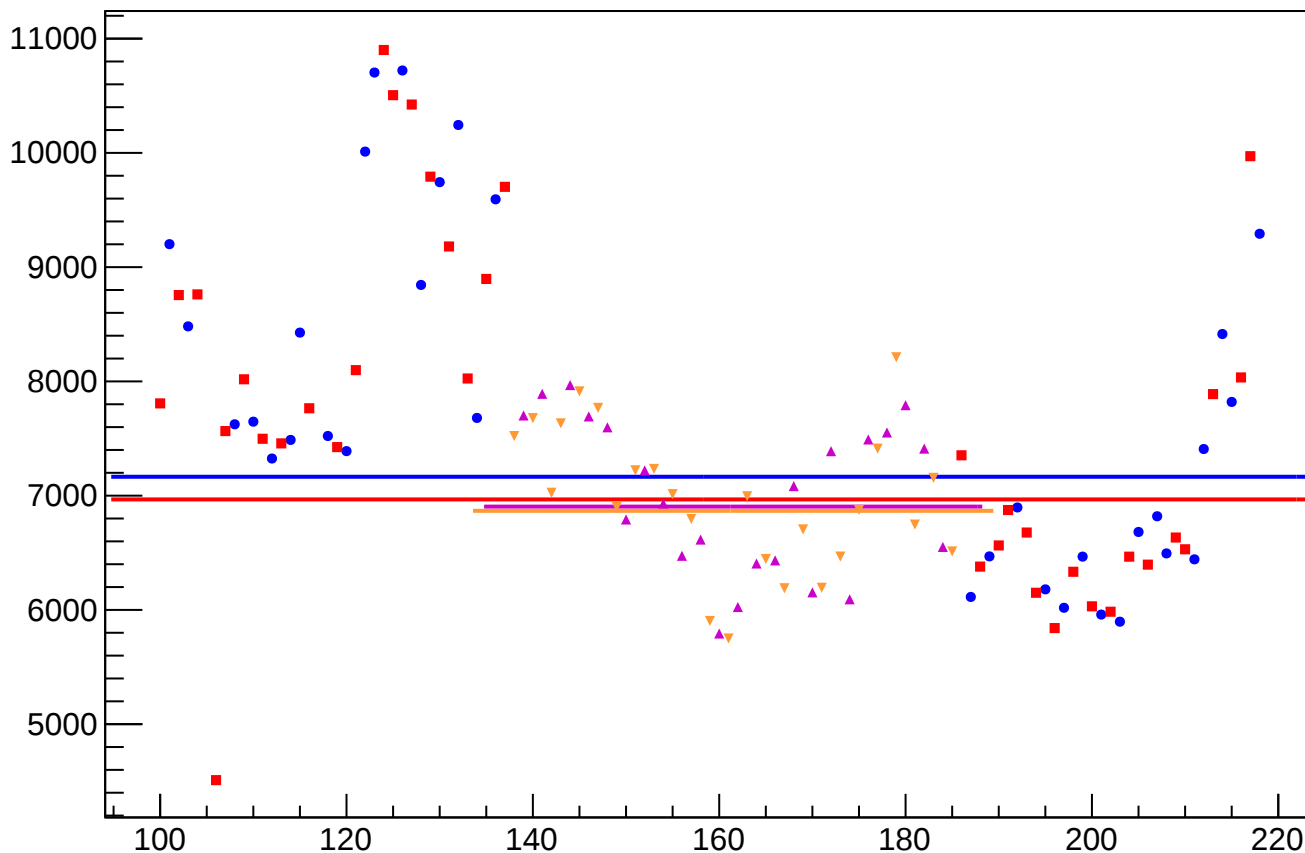
Right: -13.369 ± 1.183 χ^2/NDF : 1287.2/68

In: -16.954 ± 1.196 χ^2/NDF : 459.9/55

Out: -4.645 ± 1.151 χ^2/NDF : 834.6/60

All: -10.562 ± 0.829 χ^2/NDF : 1349.6/116

diff_bpm0l10X_rms vs Slug, Sign Corrected



Right In: 7165.444+/-1.208 χ^2/NDF : 990420.6/32

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

Right Out: 6967.034+/-1.159 χ^2/NDF : 1144788.3/35

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

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

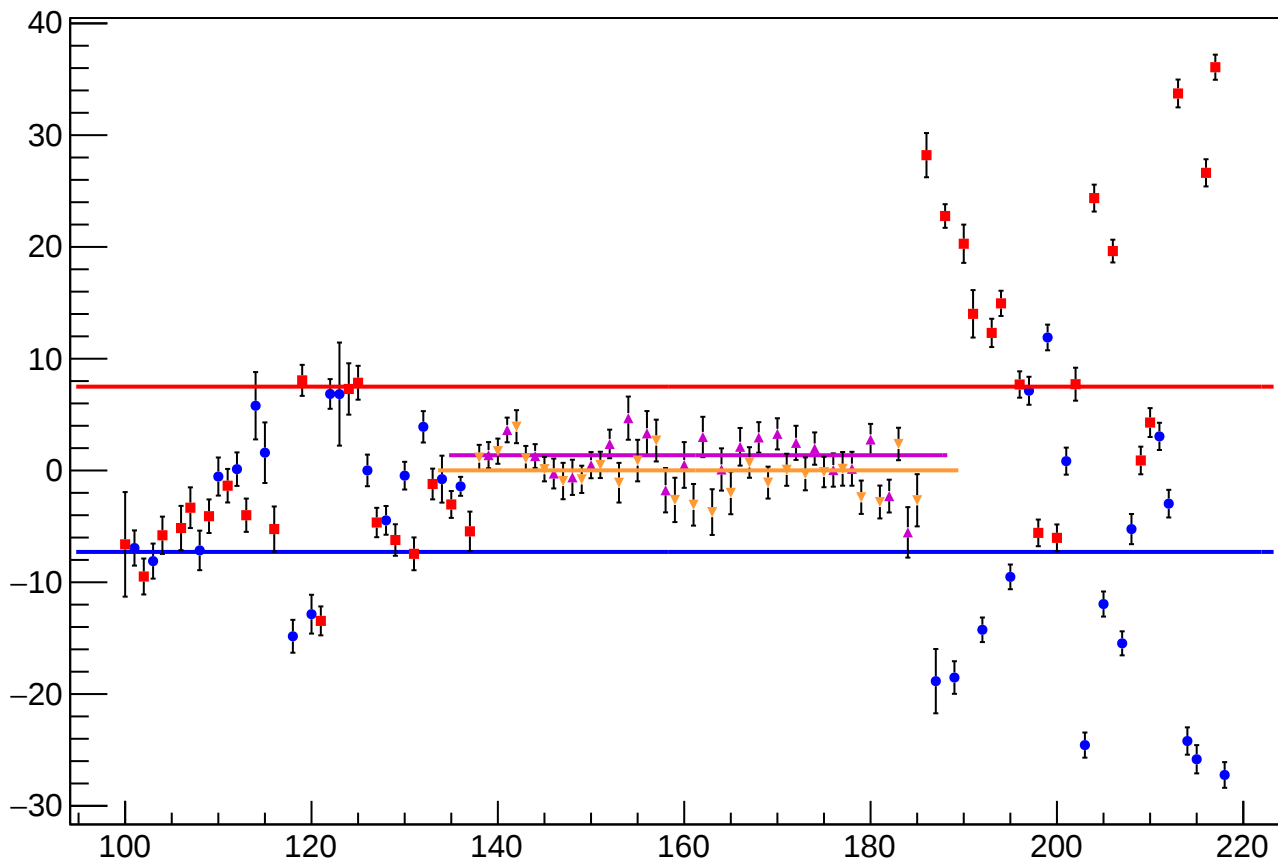
Right: 7062.134+/-0.836 χ^2/NDF : 2149251.2/68

In: 7032.130+/-0.846 χ^2/NDF : 1340199.9/55

Out: 6916.474+/-0.814 χ^2/NDF : 1455433.3/60

All: 6972.075+/-0.586 χ^2/NDF : 2805346.7/11

diff_bpm0l10Y_mean vs Slug, Sign Corrected



Right In: -7.284 ± 0.235 χ^2/NDF : 2094.9/32

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

Right Out: 7.502 ± 0.233 χ^2/NDF : 3574.4/35

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

Left: 0.654 ± 0.210 χ^2/NDF : 83.8/47

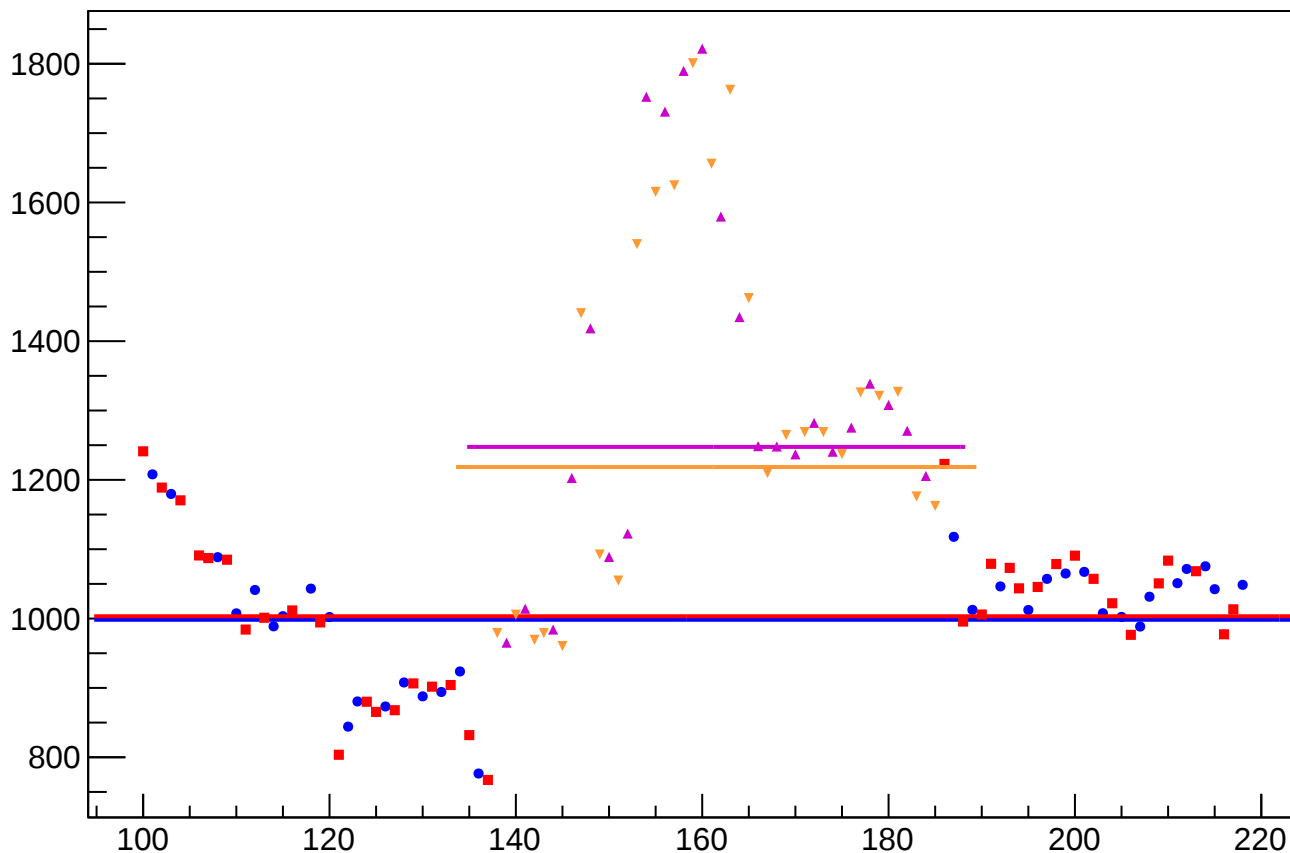
Right: 0.177 ± 0.165 χ^2/NDF : 7672.1/68

In: -4.074 ± 0.186 χ^2/NDF : 2637.5/55

Out: 4.570 ± 0.181 χ^2/NDF : 4015.3/60

All: 0.359 ± 0.130 χ^2/NDF : 7759.1/116

diff_bpm0l10Y_rms vs Slug, Sign Corrected



Right In: 998.284+/-0.166 χ^2/NDF : 343136.4/32

Left Out: 1218.543+/-0.205 χ^2/NDF :1265847.5/24

Right Out: 1003.319+/-0.164 χ^2/NDF : 342361.8/35

Left In: 1247.538+/-0.216 χ^2/NDF :1073390.3/22

Left: 1232.283+/-0.149 χ^2/NDF : 2348717.2/47

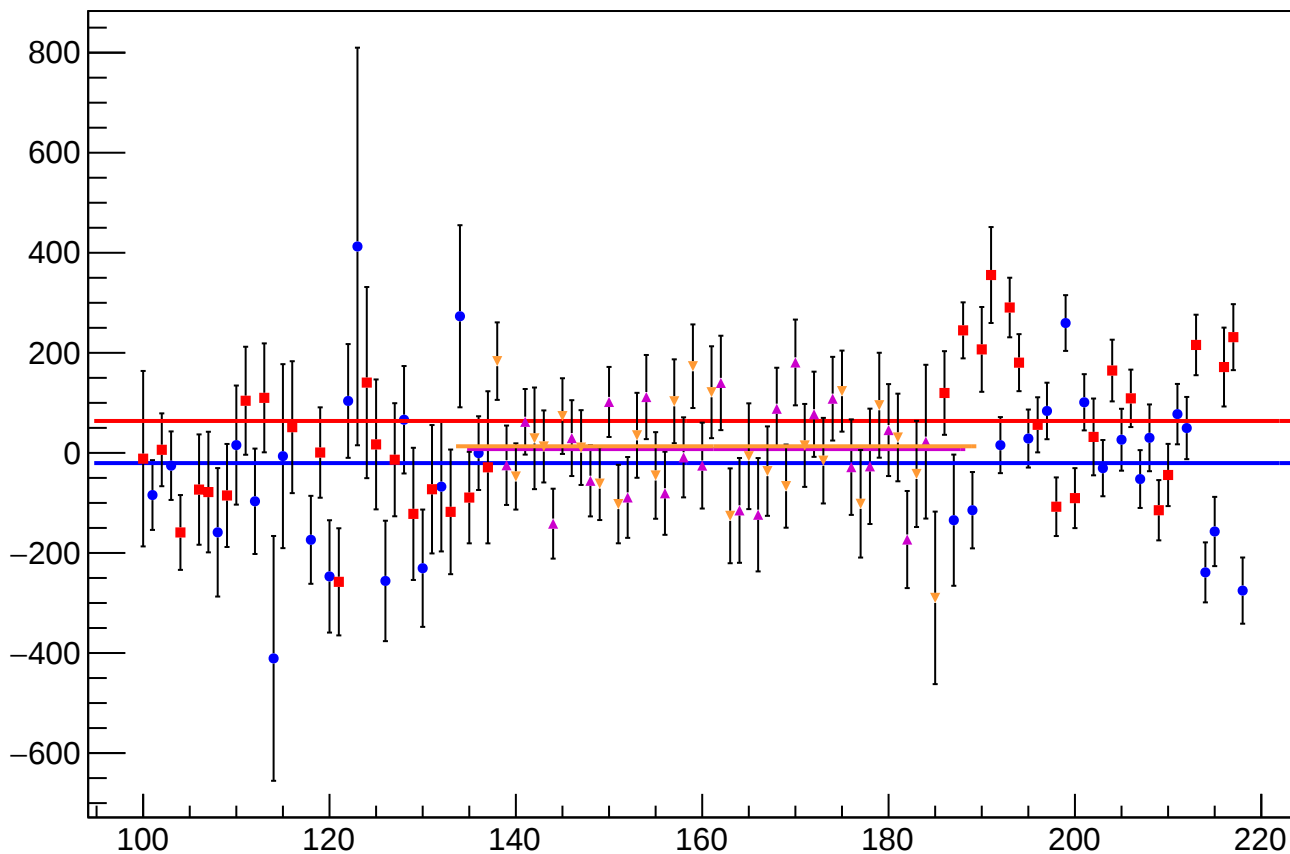
Right: 1000.825+/-0.117 χ^2/NDF : 685962.8/68

In: 1090.794+/-0.132 χ^2/NDF :2253752.3/55

Out: 1087.576+/-0.128 χ^2/NDF :2278884.4/60

All: 1089.143+/-0.092 χ^2/NDF : 4532943.3/11

diff_bpm0r03X_mean vs Slug, Sign Corrected



Right In: -20.385 $\pm$ 13.327 χ^2/NDF : 99.3/32

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

Right Out: 63.814 $\pm$ 13.213 χ^2/NDF : 120.5/35

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

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

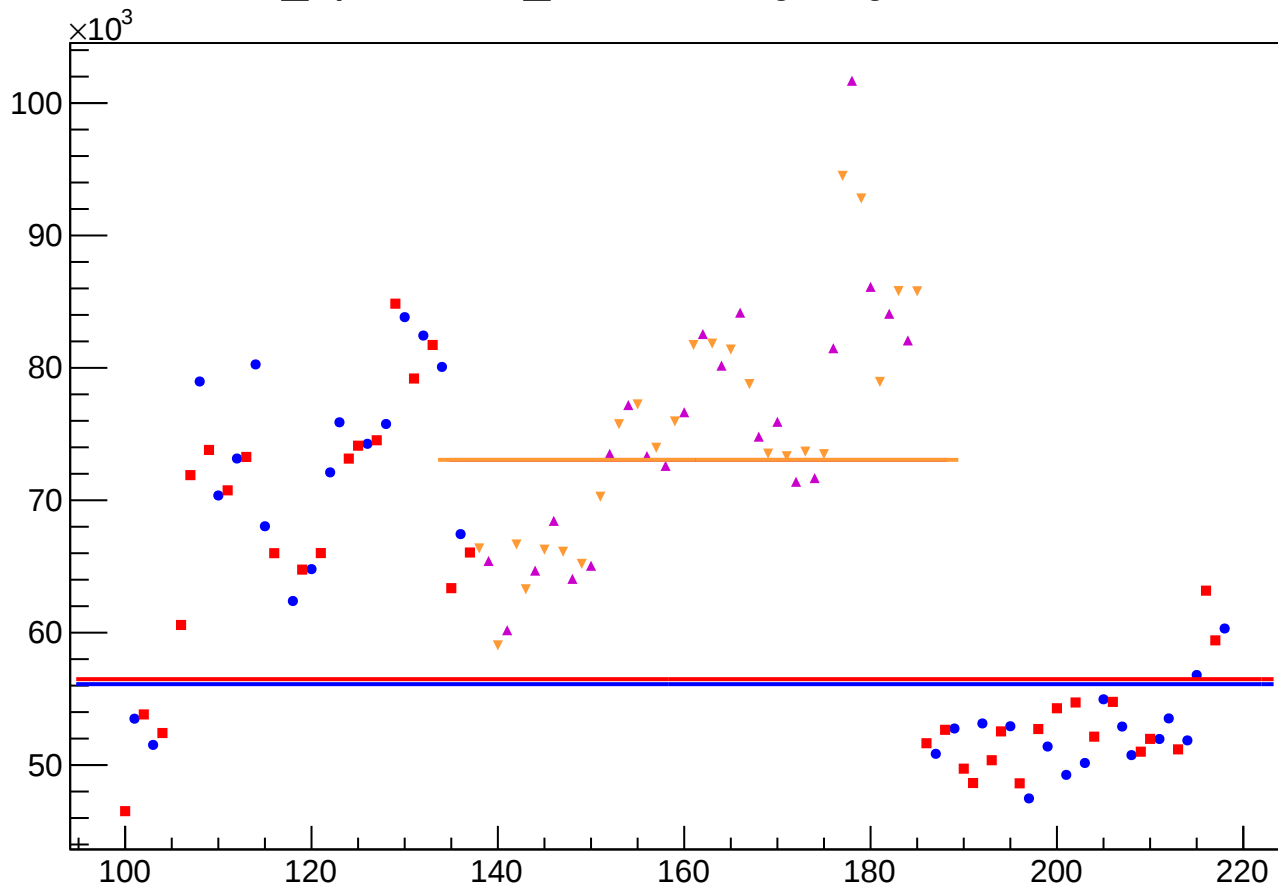
Right: 22.077 $\pm$ 9.383 χ^2/NDF : 239.9/68

In: -10.232 $\pm$ 10.640 χ^2/NDF : 129.0/55

Out: 44.958 $\pm$ 10.466 χ^2/NDF : 152.8/60

All: 17.819 $\pm$ 7.462 χ^2/NDF : 295.5/116

diff_bpm0r03X_rms vs Slug, Sign Corrected



Right In: 56110.184 $\pm$ 9.424

χ^2/NDF : 822644.8/32

Left: 73050.085 $\pm$ 8.701

χ^2/NDF : 936576.6/47

Left Out: 73054.401 $\pm$ 12.124

χ^2/NDF : 473050.9/24

Right: 56300.630 $\pm$ 6.635

χ^2/NDF : 1613464.6/68

Right Out: 56487.827 $\pm$ 9.343

χ^2/NDF : 790010.0/35

In: 62250.138 $\pm$ 7.524

χ^2/NDF : 2457041.0/55

Out: 62660.321 $\pm$ 7.401

χ^2/NDF : 2434488.3/60

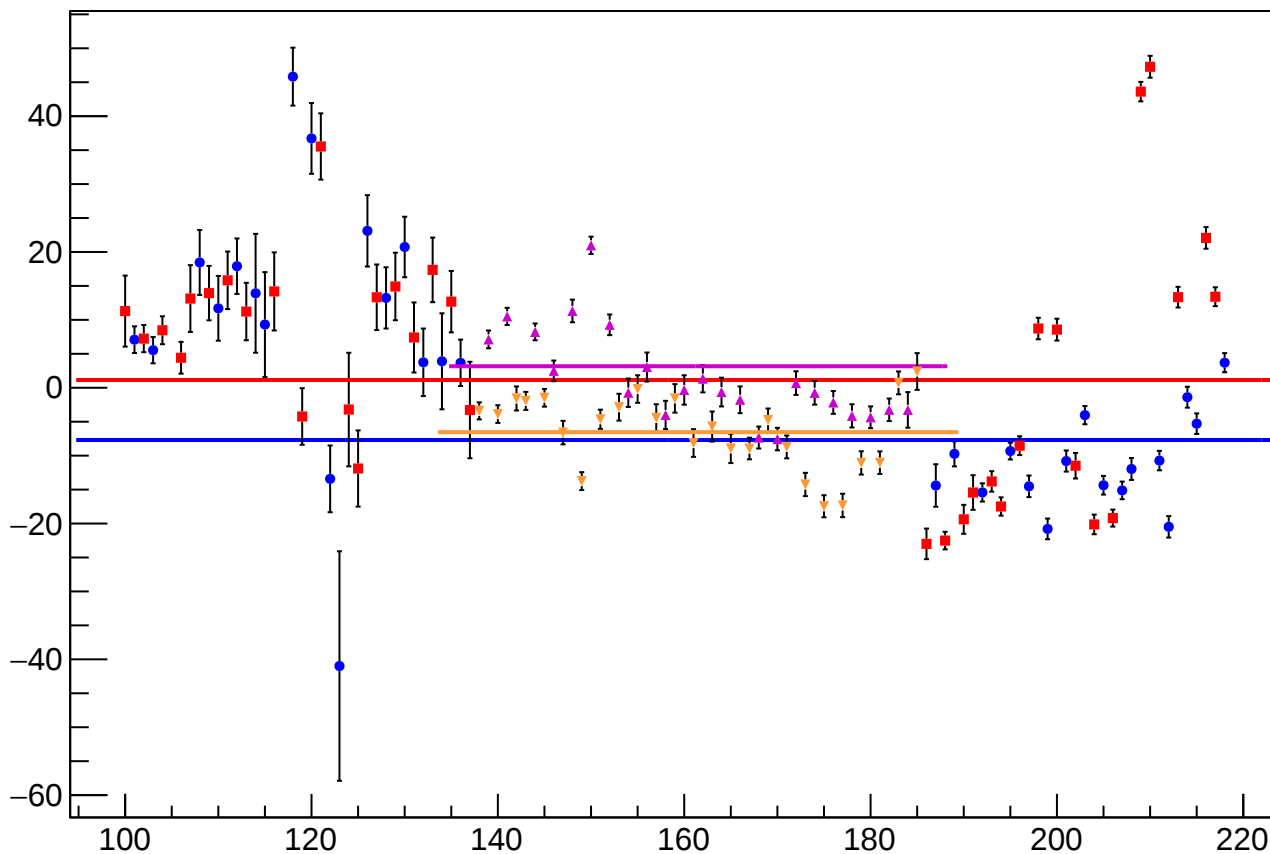
Left In: 73045.500 $\pm$ 12.496

χ^2/NDF : 463525.5/22

All: 62458.621 $\pm$ 5.276

χ^2/NDF : 4893039.9/100

diff_bpm0r03Y_mean vs Slug, Sign Corrected



Right In: -7.696 ± 0.348 $\chi^2/\text{NDF}: 912.9/32$

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

Right Out: 1.147 ± 0.345 $\chi^2/\text{NDF}: 3659.8/35$

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

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

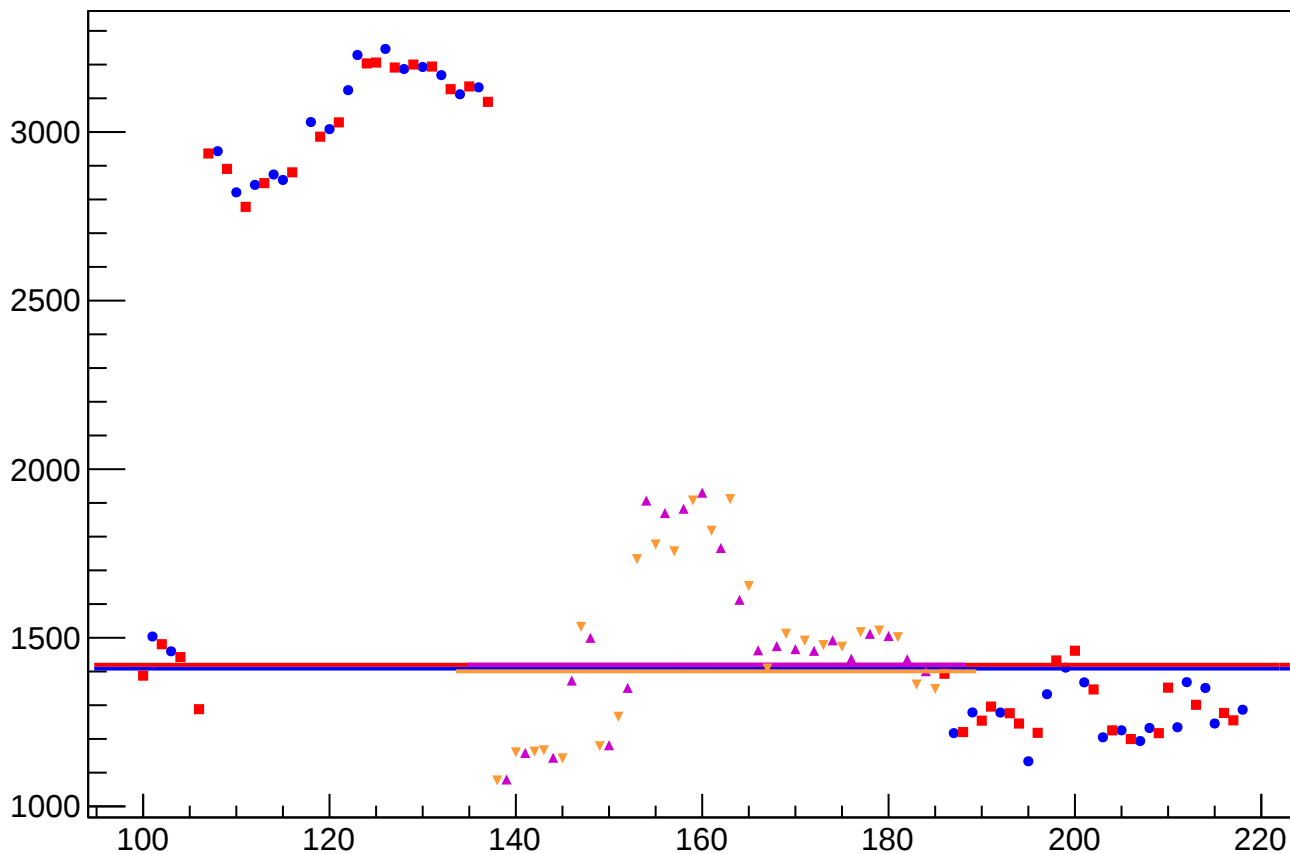
Right: -3.239 ± 0.245 $\chi^2/\text{NDF}: 4898.9/68$

In: -2.245 ± 0.245 $\chi^2/\text{NDF}: 1890.4/55$

Out: -2.842 ± 0.239 $\chi^2/\text{NDF}: 4170.4/60$

All: -2.551 ± 0.171 $\chi^2/\text{NDF}: 6063.9/116$

diff_bpm0r03Y_rms vs Slug, Sign Corrected



Right In: 1408.767 $\pm$ 0.246

χ^2 /NDF: 3628312.3/32

Left Out: 1400.637 $\pm$ 0.235

χ^2 /NDF: 1037921.6/24

Right Out: 1419.941 $\pm$ 0.244

χ^2 /NDF: 3603571.3/35

Left In: 1420.285 $\pm$ 0.245

χ^2 /NDF: 905186.2/22

Left: 1410.037 $\pm$ 0.169 χ^2 /NDF: 1946462.8/47

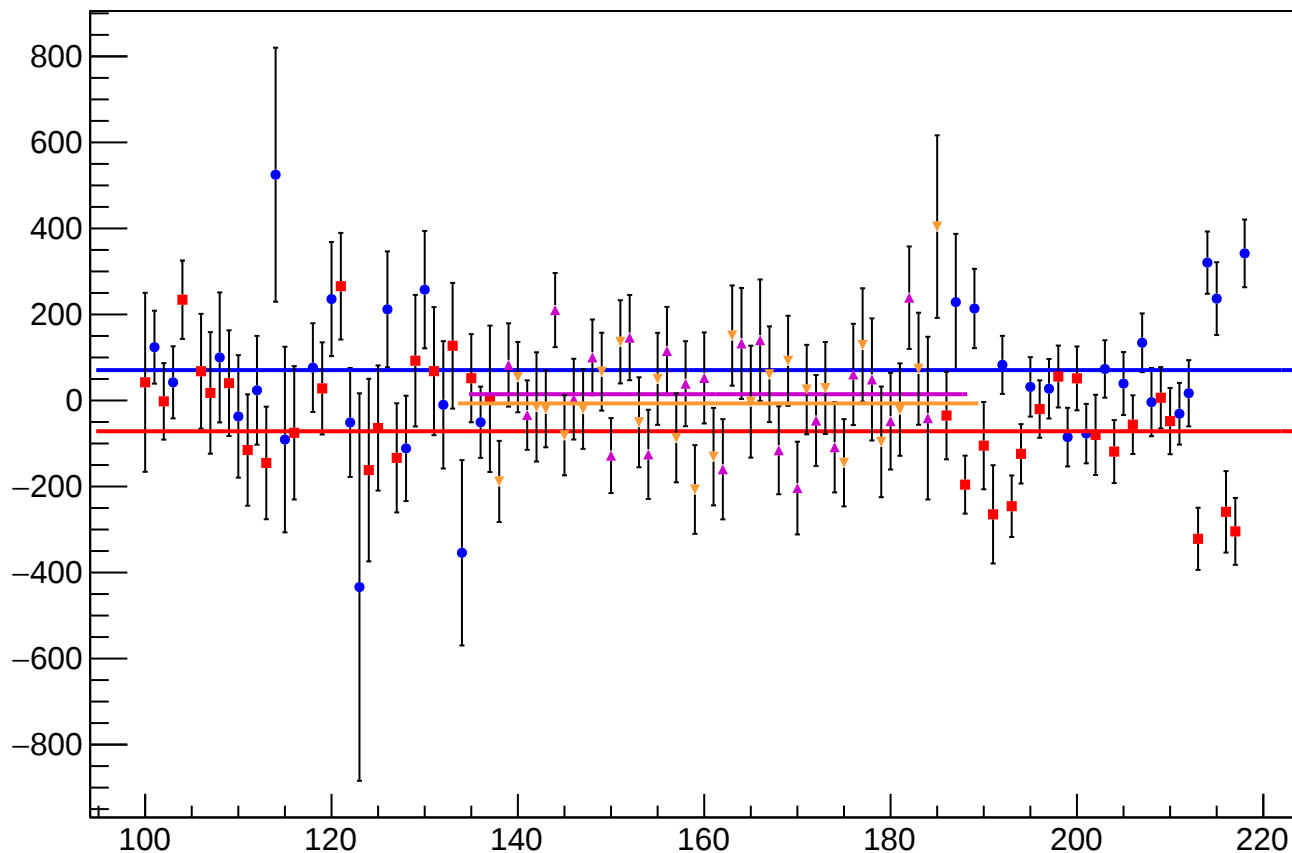
Right: 1414.399 $\pm$ 0.173 χ^2 /NDF: 7232925.3/68

In: 1414.545 $\pm$ 0.174 χ^2 /NDF: 4534600.1/55

Out: 1409.919 $\pm$ 0.169 χ^2 /NDF: 4644747.8/60

All: 1412.172 $\pm$ 0.121 χ^2 /NDF: 9179712.5/111

diff_bpm0r05X_mean vs Slug, Sign Corrected



Right In: 70.615 $\pm$ 15.937 χ^2 /NDF: 65.5/32

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

Right Out: -71.499 $\pm$ 15.821 χ^2 /NDF: 75.2/35

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

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

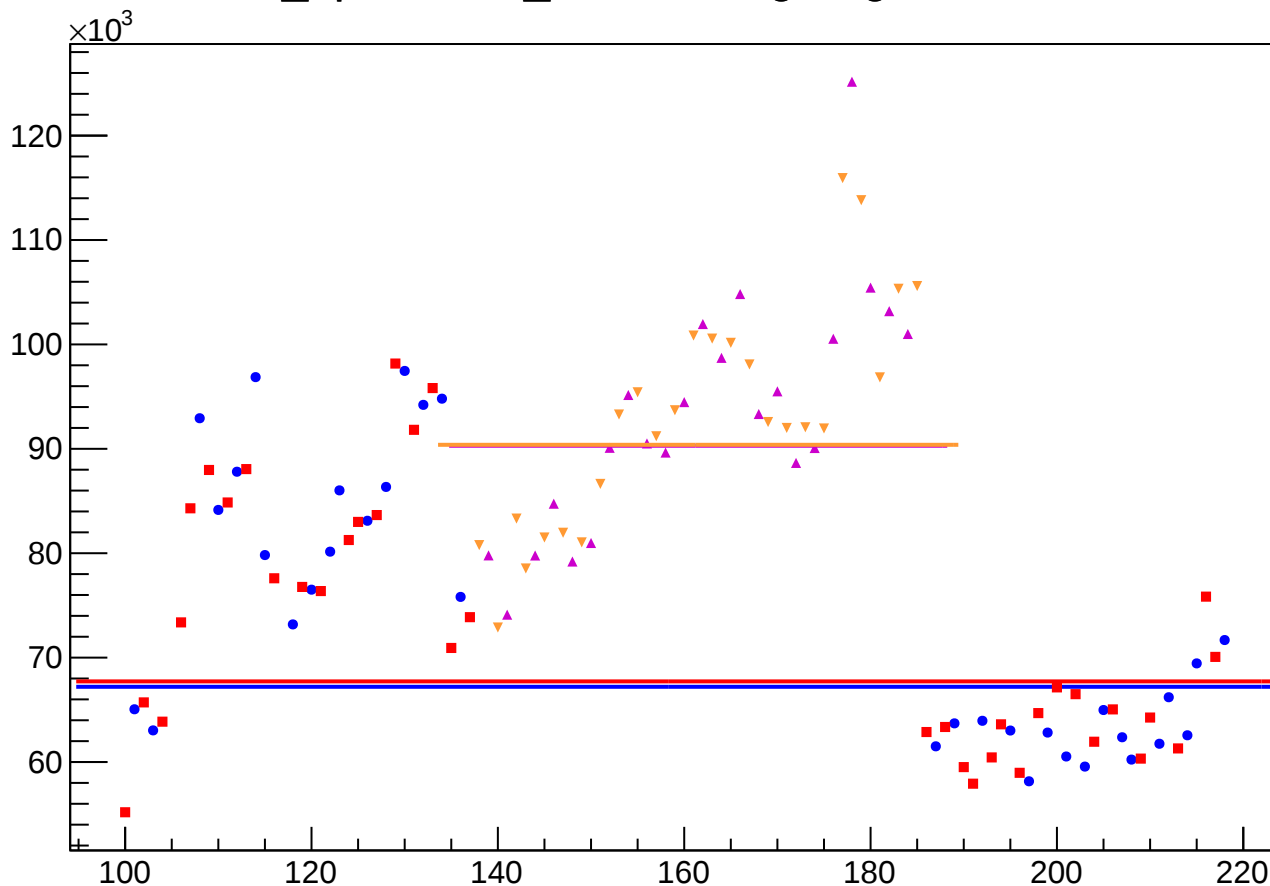
Right: -0.963 $\pm$ 11.228 χ^2 /NDF: 180.7/68

In: 51.163 $\pm$ 12.875 χ^2 /NDF:99.6/55

Out: -48.371 $\pm$ 12.682 χ^2 /NDF:105.9/60

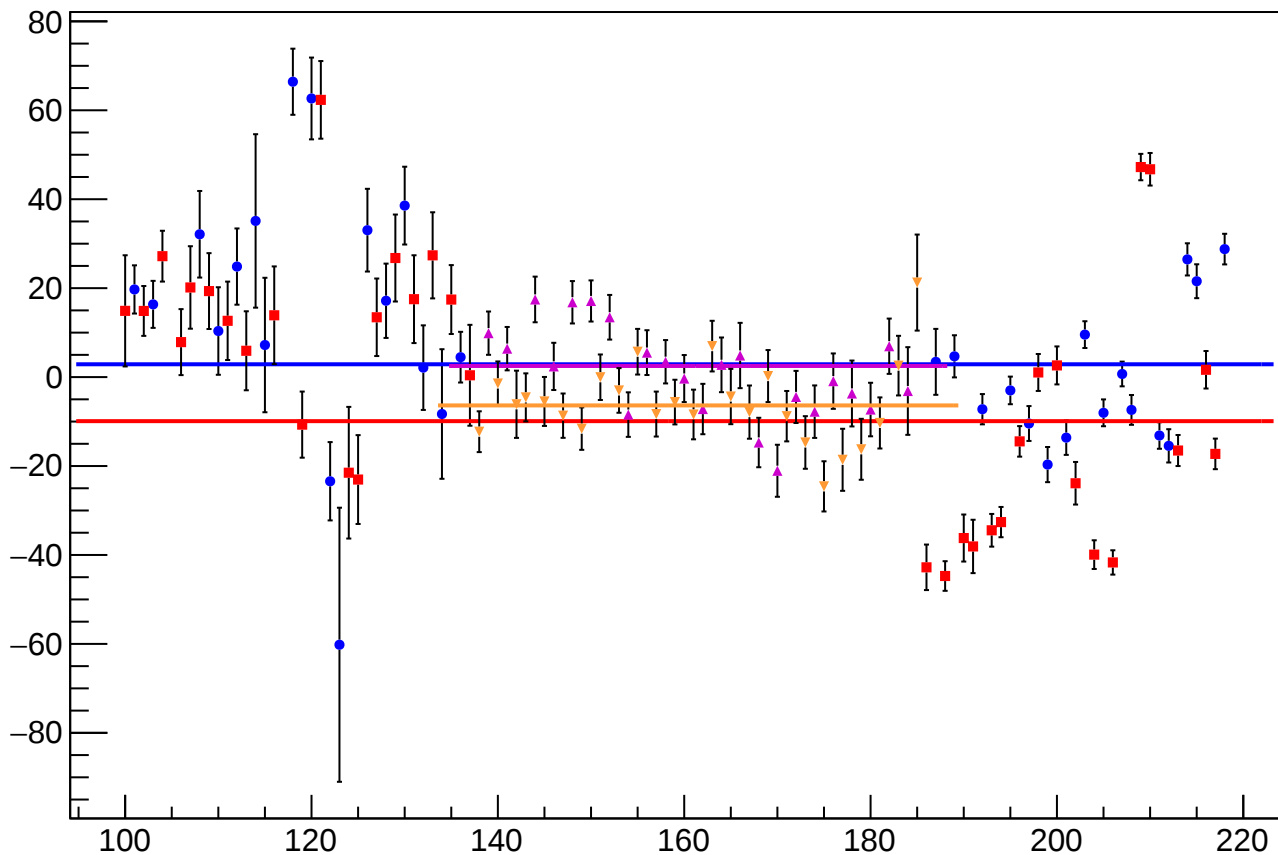
All: 0.644 $\pm$ 9.035 χ^2 /NDF: 235.8/116

diff_bpm0r05X_rms vs Slug, Sign Corrected



Right In: 67206.388 $\pm$ 11.269	χ^2/NDF : 670030.3/32	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: 67466.716 $\pm$ 7.939	χ^2/NDF : 1336203.2/68
Right Out: 67723.254 $\pm$ 11.187	χ^2/NDF : 665113.3/35	In: 75225.475 $\pm$ 9.104	χ^2/NDF : 2589213.2/55
Left In: 90293.591 $\pm$ 15.448	χ^2/NDF : 461337.5/22	Out: 75822.775 $\pm$ 8.968	χ^2/NDF : 2593438.2/60
		All: 75528.637 $\pm$ 6.389	χ^2/NDF : 5184836.2/100

diff_bpm0r05Y_mean vs Slug, Sign Corrected



Right In: 2.883 ± 0.805 $\chi^2/\text{NDF}: 472.9/32$

Left Out: -6.370 ± 1.124 $\chi^2/\text{NDF}: 45.5/24$

Right Out: -9.907 ± 0.818 $\chi^2/\text{NDF}: 1395.3/35$

Left In: 2.501 ± 1.156 $\chi^2/\text{NDF}: 78.4/22$

Left: -2.059 ± 0.806 $\chi^2/\text{NDF}: 154.1/47$

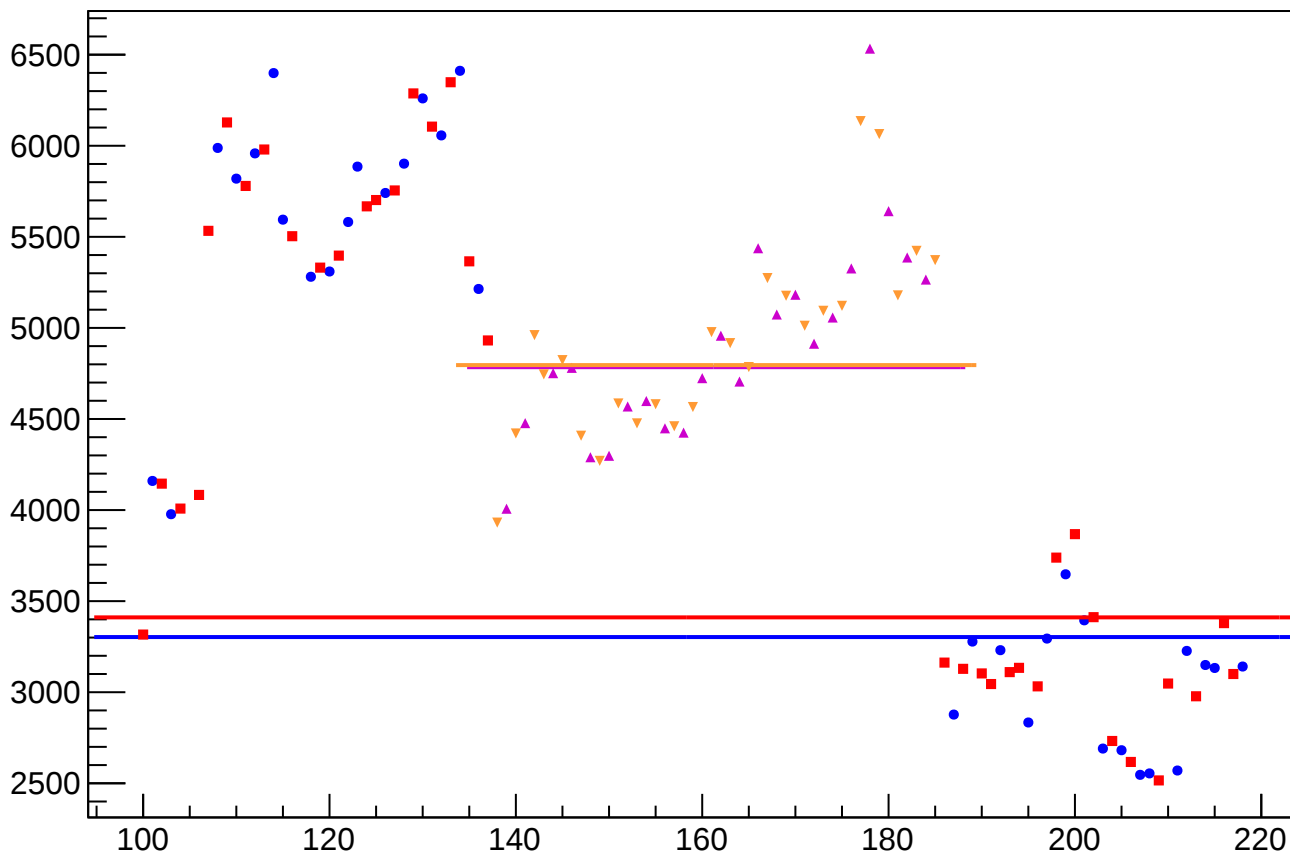
Right: -3.414 ± 0.574 $\chi^2/\text{NDF}: 1992.3/68$

In: 2.758 ± 0.661 $\chi^2/\text{NDF}: 551.4/55$

Out: -8.683 ± 0.661 $\chi^2/\text{NDF}: 1447.2/60$

All: -2.958 ± 0.467 $\chi^2/\text{NDF}: 2148.3/116$

diff_bpm0r05Y_rms vs Slug, Sign Corrected



Right In: 3302.824+/-0.570 χ^2/NDF : 2699990.5/32

Left Out: 4795.847+/-0.795 χ^2/NDF : 361249.7/24

Right Out: 3410.868+/-0.578 χ^2/NDF : 2592169.4/35

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

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

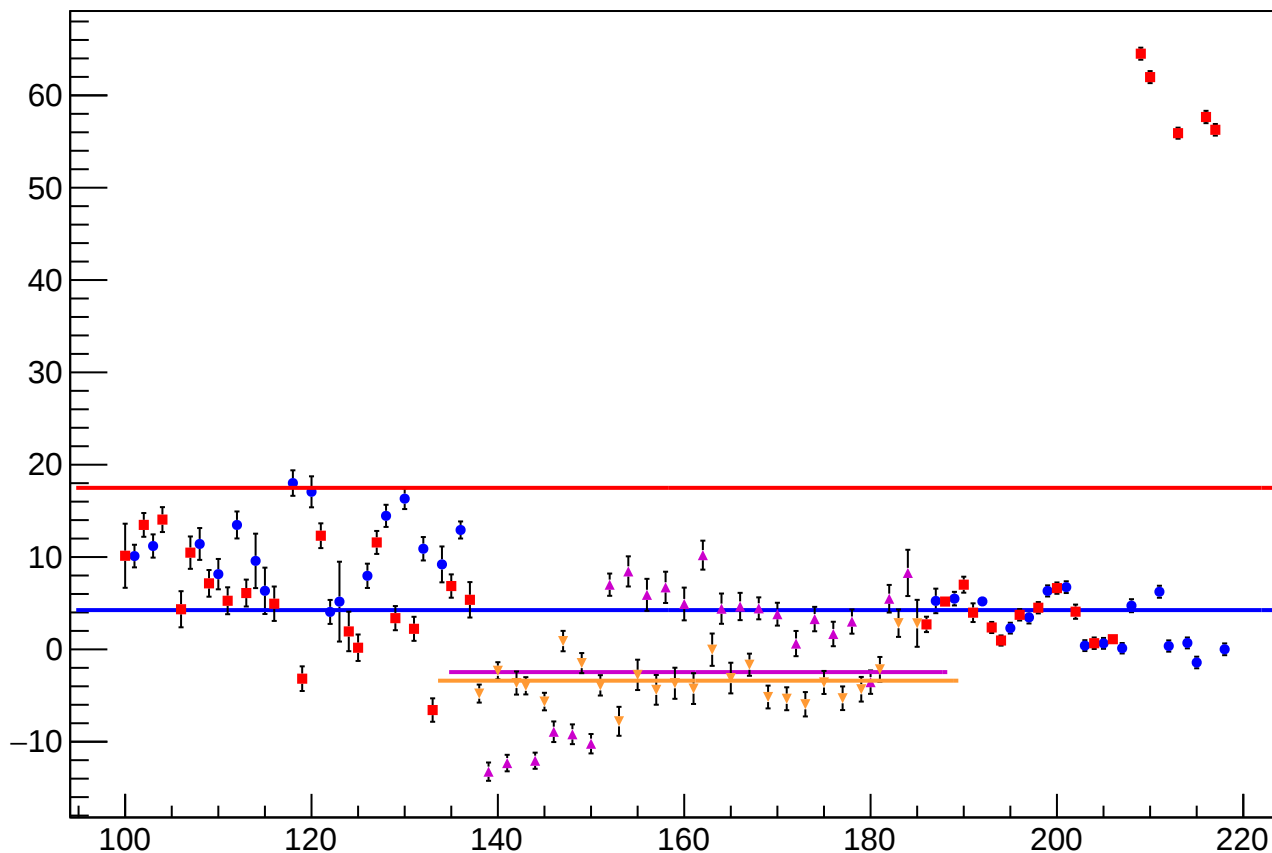
Right: 3356.023+/-0.406 χ^2/NDF : 5309877.2/68

In: 3787.115+/-0.467 χ^2/NDF : 5269287.0/55

Out: 3890.391+/-0.468 χ^2/NDF : 4939100.4/60

All: 3838.719+/-0.331 χ^2/NDF : 10232792.6/1

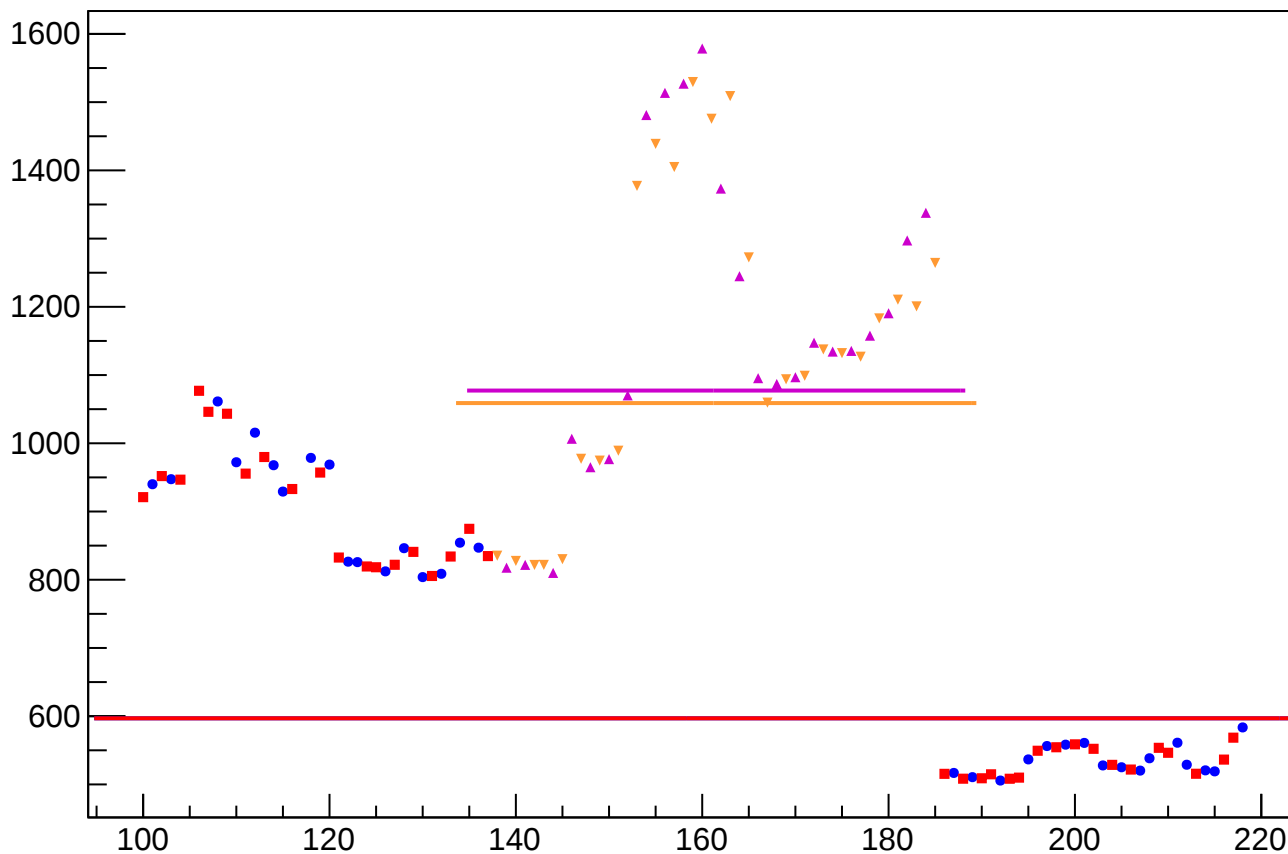
diff_bpm2i01X_mean vs Slug, Sign Corrected



Right In: 4.254 ± 0.143 $\chi^2/\text{NDF}: 987.1/32$
 Left Out: -3.390 ± 0.252 $\chi^2/\text{NDF}: 77.7/24$
 Right Out: 17.494 ± 0.142 $\chi^2/\text{NDF}: 28810.7/35$
 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: 10.955 ± 0.101 $\chi^2/\text{NDF}: 34110.2/68$
 In: 2.727 ± 0.126 $\chi^2/\text{NDF}: 2413.6/55$
 Out: 12.485 ± 0.124 $\chi^2/\text{NDF}: 34098.5/60$
 All: 7.705 ± 0.088 $\chi^2/\text{NDF}: 39568.4/116$

diff_bpm2i01X_rms vs Slug, Sign Corrected



Right In: 596.885 $\pm$ 0.101 χ^2 /NDF: 1896930.5/32

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

Right Out: 596.912 $\pm$ 0.100 χ^2 /NDF: 2108165.5/35

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

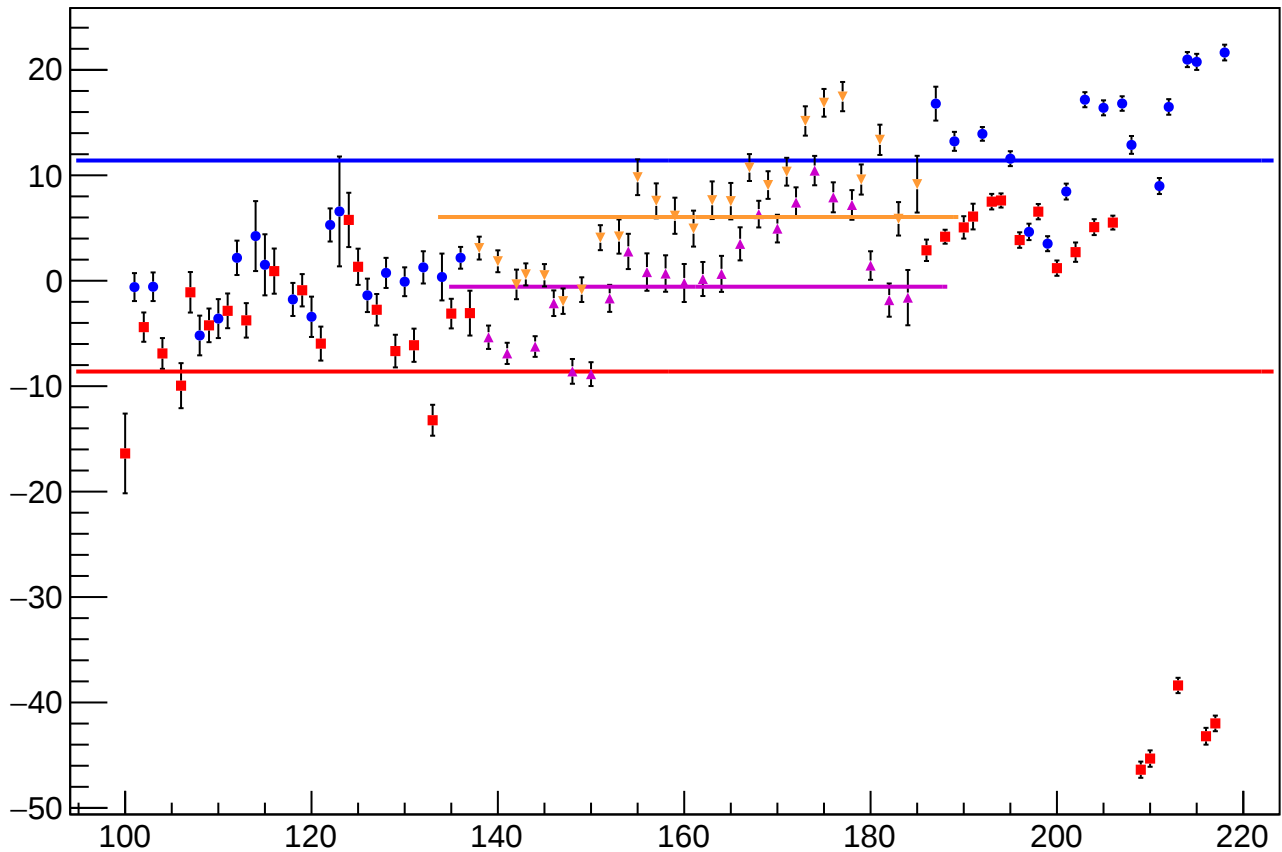
Right: 596.899 $\pm$ 0.071 χ^2 /NDF: 4005096.0/68

In: 706.134 $\pm$ 0.089 χ^2 /NDF: 8279666.9/55

Out: 707.725 $\pm$ 0.087 χ^2 /NDF: 8611711.5/60

All: 706.946 $\pm$ 0.062 χ^2 /NDF: 16891540.9/117

diff_bpm2i01Y_mean vs Slug, Sign Corrected



Right In: 11.403 ± 0.171 χ^2/NDF : 1836.4/32

Left Out: 6.045 ± 0.272 χ^2/NDF : 430.8/24

Right Out: -8.611 ± 0.169 χ^2/NDF : 14190.8/35

Left In: -0.566 ± 0.284 χ^2/NDF : 417.0/22

Left: 2.888 ± 0.196 χ^2/NDF : 1130.7/47

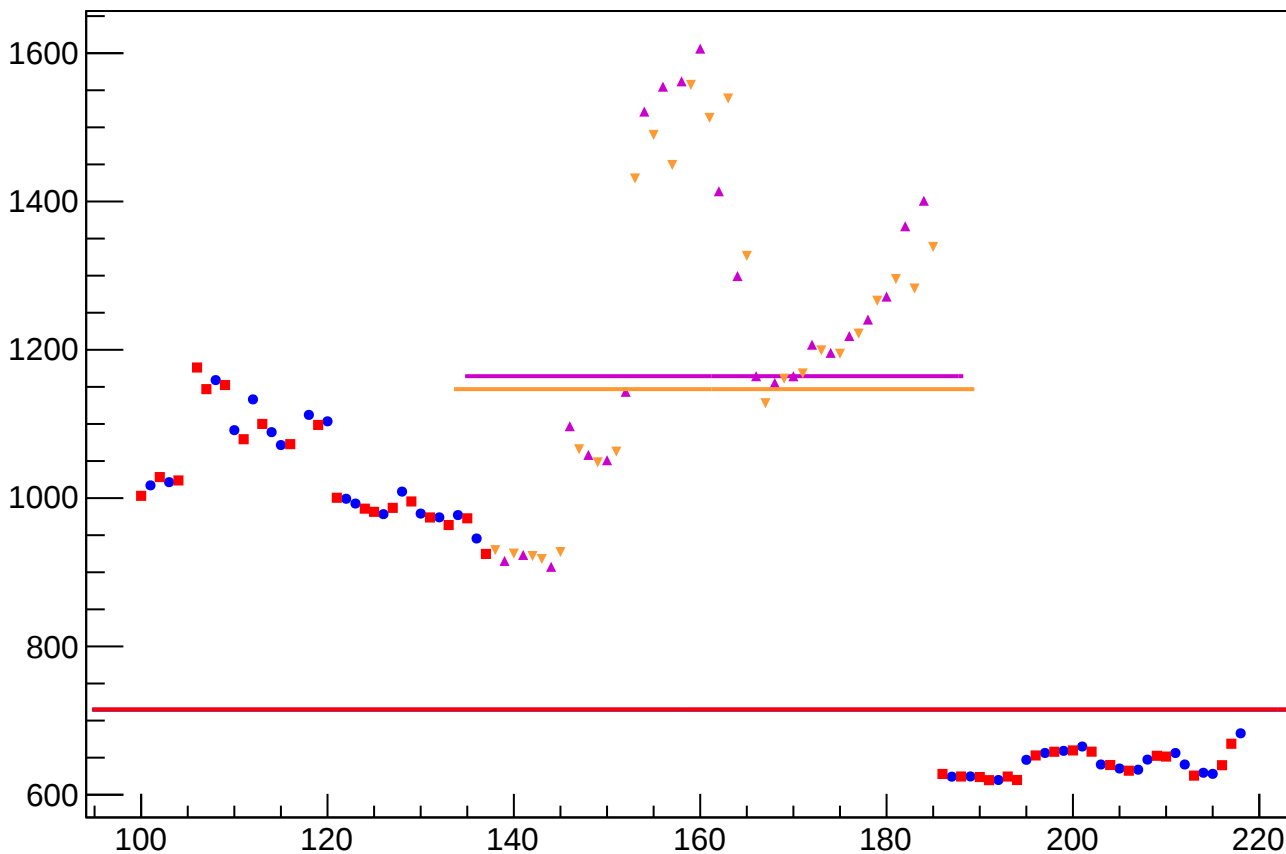
Right: 1.272 ± 0.120 χ^2/NDF : 22964.8/68

In: 8.222 ± 0.146 χ^2/NDF : 3556.4/55

Out: -4.527 ± 0.143 χ^2/NDF : 16721.0/60

All: 1.712 ± 0.102 χ^2/NDF : 24144.7/116

diff_bpm2i01Y_rms vs Slug, Sign Corrected



Right In: 714.732 $\pm$ 0.121 χ^2 /NDF: 1566549.4/32

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

Right Out: 715.006 $\pm$ 0.119 χ^2 /NDF: 1729402.7/35

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

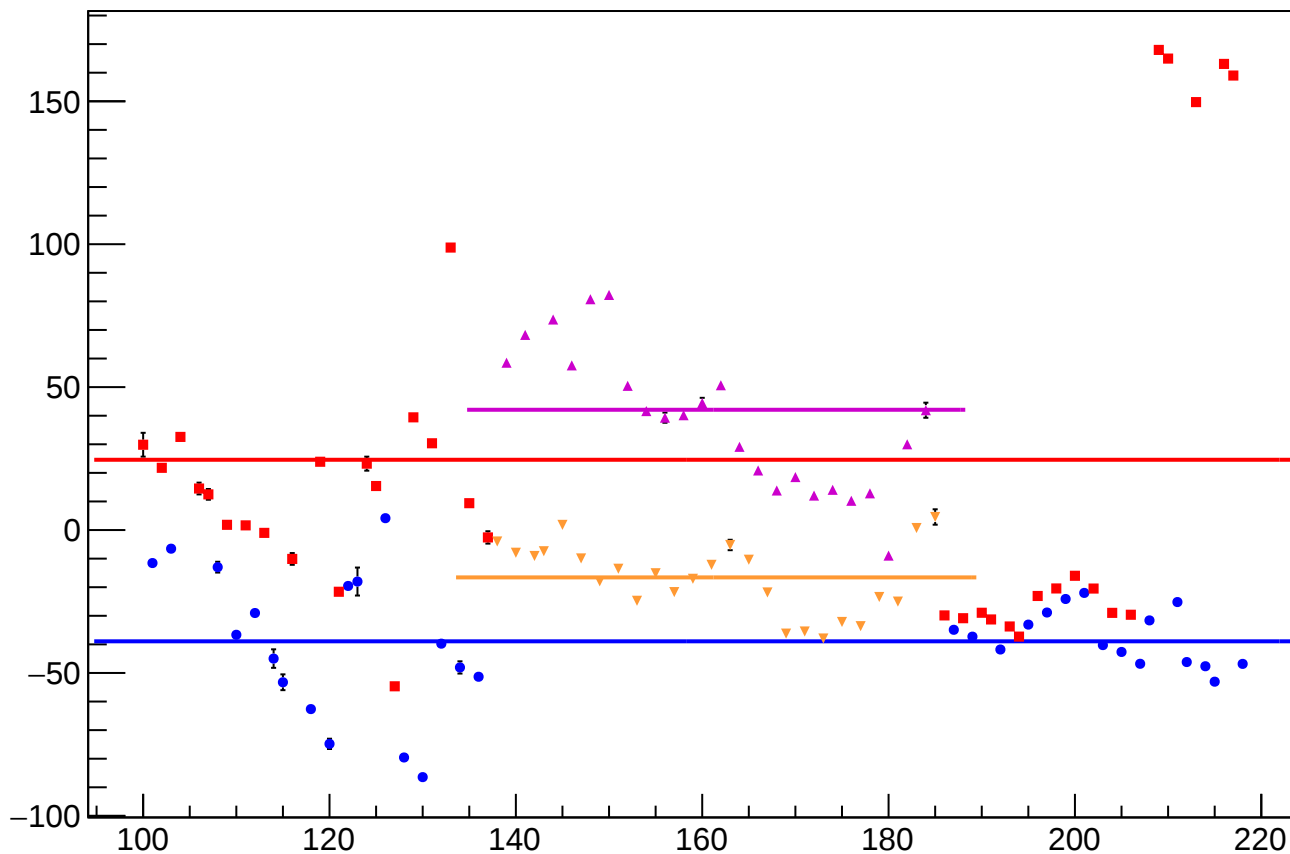
Right: 714.871 $\pm$ 0.085 χ^2 /NDF: 3295954.7/68

In: 834.275 $\pm$ 0.104 χ^2 /NDF:6189096.7/55

Out: 835.376 $\pm$ 0.101 χ^2 /NDF:6422310.0/60

All: 834.837 $\pm$ 0.072 χ^2 /NDF: 12611464.3/117

diff_bpm2i02X_mean vs Slug, Sign Corrected



Right In: -38.929 ± 0.169 $\chi^2/\text{NDF}: 7620.7/32$

Left Out: -16.567 ± 0.275 $\chi^2/\text{NDF}: 1931.2/24$

Right Out: 24.585 ± 0.167 $\chi^2/\text{NDF}: 221097.6/35$

Left In: 42.077 ± 0.289 $\chi^2/\text{NDF}: 8332.3/22$

Left: 11.318 ± 0.199 $\chi^2/\text{NDF}: 31846.5/47$

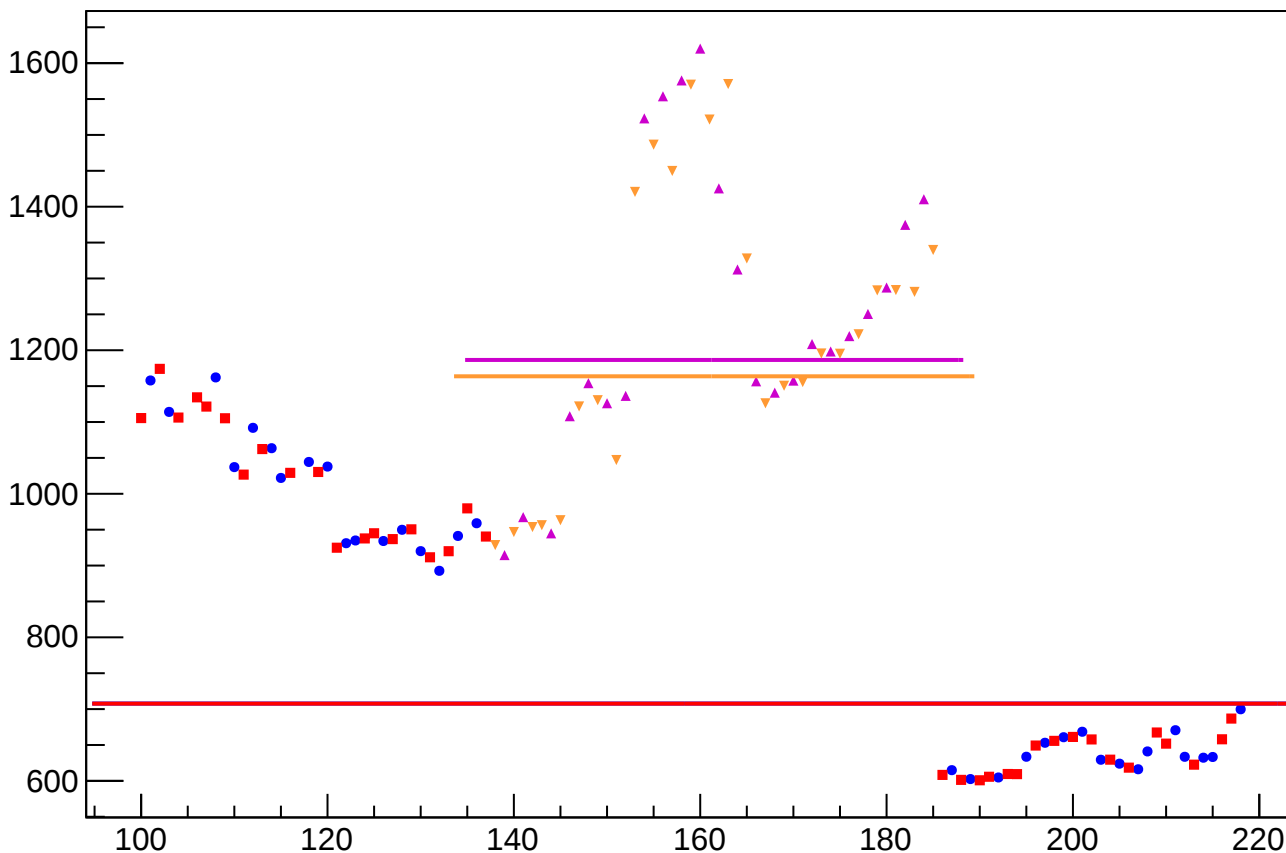
Right: -6.756 ± 0.119 $\chi^2/\text{NDF}: 300083.8/68$

In: -18.258 ± 0.146 $\chi^2/\text{NDF}: 74433.0/55$

Out: 13.512 ± 0.143 $\chi^2/\text{NDF}: 239365.6/60$

All: -2.015 ± 0.102 $\chi^2/\text{NDF}: 337994.7/116$

diff_bpm2i02X_rms vs Slug, Sign Corrected



Right In: 707.739+/-0.120 χ^2/NDF : 1551279.1/32

Left Out: 1163.691+/-0.195 χ^2/NDF : 936079.1/24

Right Out: 707.621+/-0.118 χ^2/NDF : 1703358.9/35

Left In: 1186.476+/-0.204 χ^2/NDF : 833420.3/22

Left: 1174.525+/-0.141 χ^2/NDF : 1776015.7/47

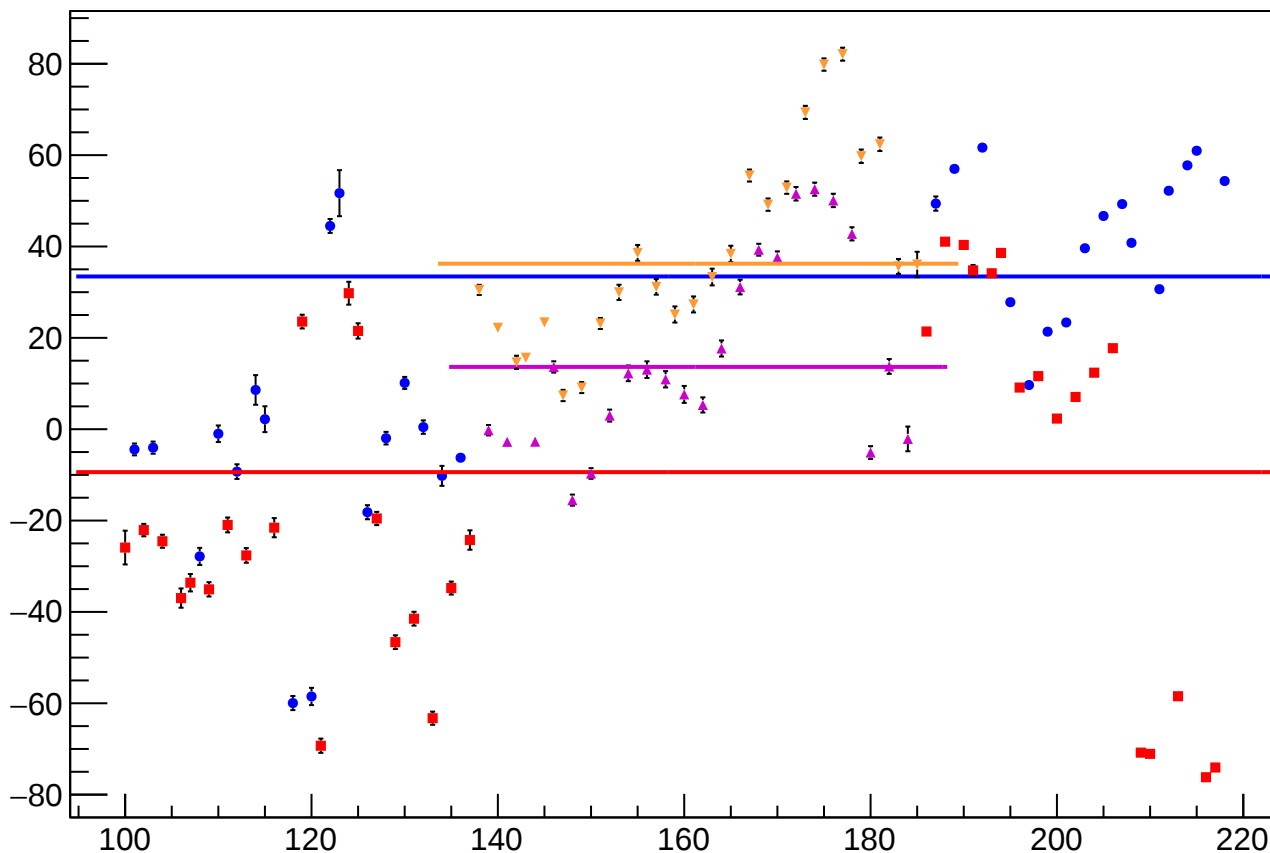
Right: 707.680+/-0.084 χ^2/NDF : 3254638.5/68

In: 829.903+/-0.103 χ^2/NDF : 6469790.2/55

Out: 830.339+/-0.101 χ^2/NDF : 6652511.6/60

All: 830.126+/-0.072 χ^2/NDF : 13122310.9/117

diff_bpm2i02Y_mean vs Slug, Sign Corrected



Right In: 33.439+/-0.167 χ^2/NDF : 24031.6/32

Left Out: 36.234+/-0.280 χ^2/NDF : 5794.2/24

Right Out: -9.396+/-0.164 χ^2/NDF : 64770.5/35

Left In: 13.640+/-0.293 χ^2/NDF : 5178.0/22

Left: 25.447+/-0.202 χ^2/NDF : 14084.0/47

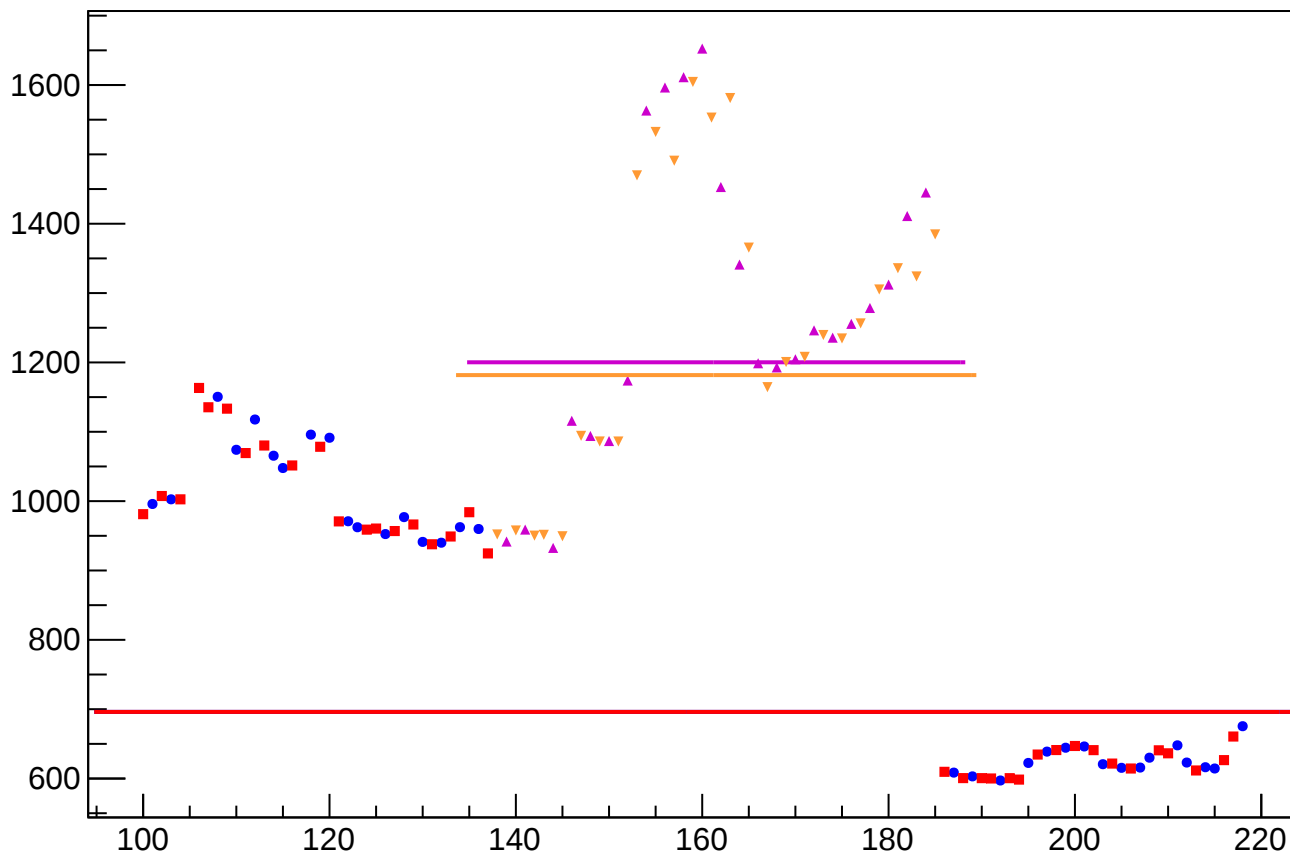
Right: 11.748+/-0.117 χ^2/NDF : 122272.0/68

In: 28.596+/-0.145 χ^2/NDF : 32663.6/55

Out: 2.320+/-0.142 χ^2/NDF : 90321.1/60

All: 15.184+/-0.101 χ^2/NDF : 139790.7/116

diff_bpm2i02Y_rms vs Slug, Sign Corrected



Right In: 696.109+/-0.118 χ^2/NDF : 1628865.7/32

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

Right Out: 696.095+/-0.116 χ^2/NDF : 1796556.3/35

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

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

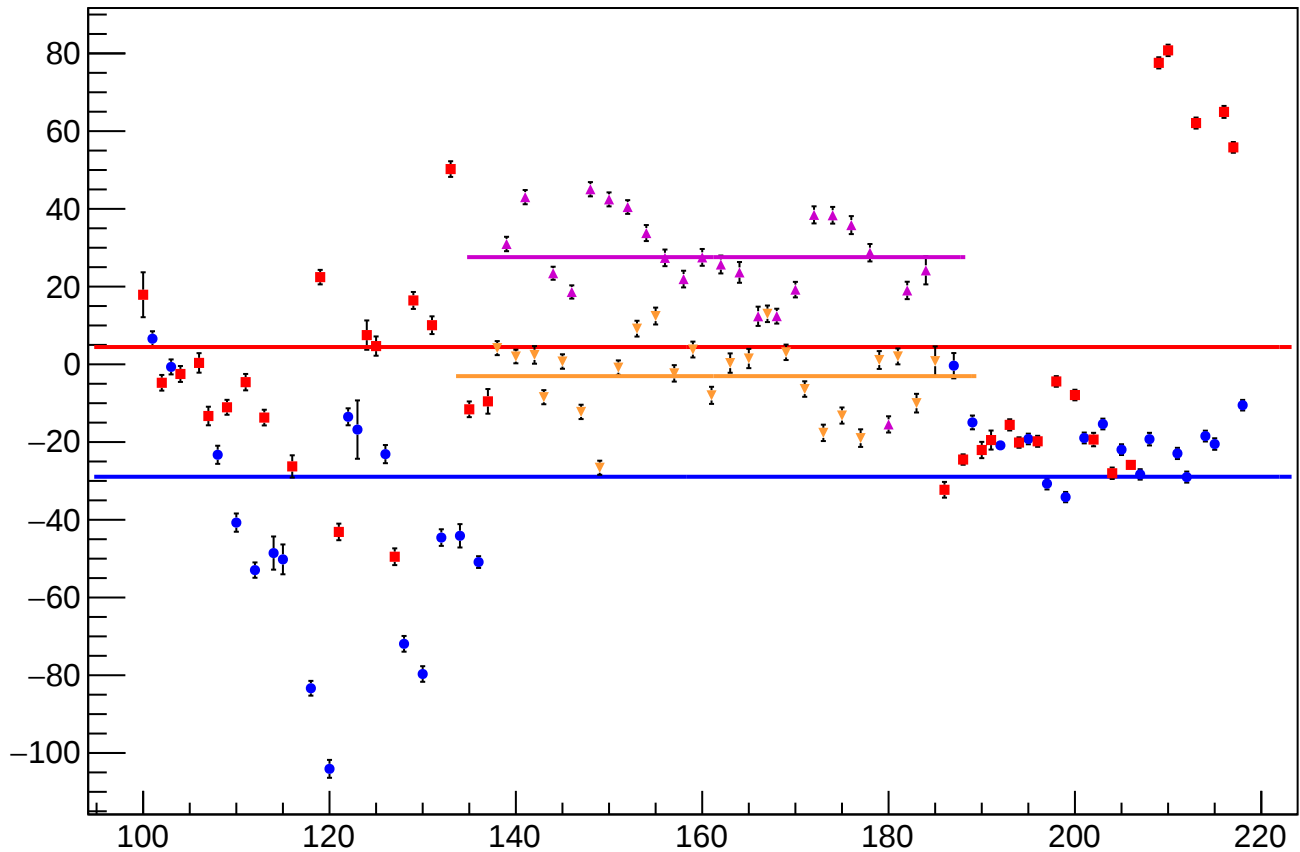
Right: 696.102+/-0.083 χ^2/NDF : 3425422.0/68

In: 819.410+/-0.102 χ^2/NDF :7045247.2/55

Out: 820.786+/-0.100 χ^2/NDF :7315771.3/60

All: 820.112+/-0.072 χ^2/NDF : 14361110.6/117

diff_bpm0i02X_mean vs Slug, Sign Corrected



Right In: -28.926 ± 0.302 $\chi^2/\text{NDF}: 4854.1/32$

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

Right Out: 4.451 ± 0.298 $\chi^2/\text{NDF}: 15308.9/35$

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

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

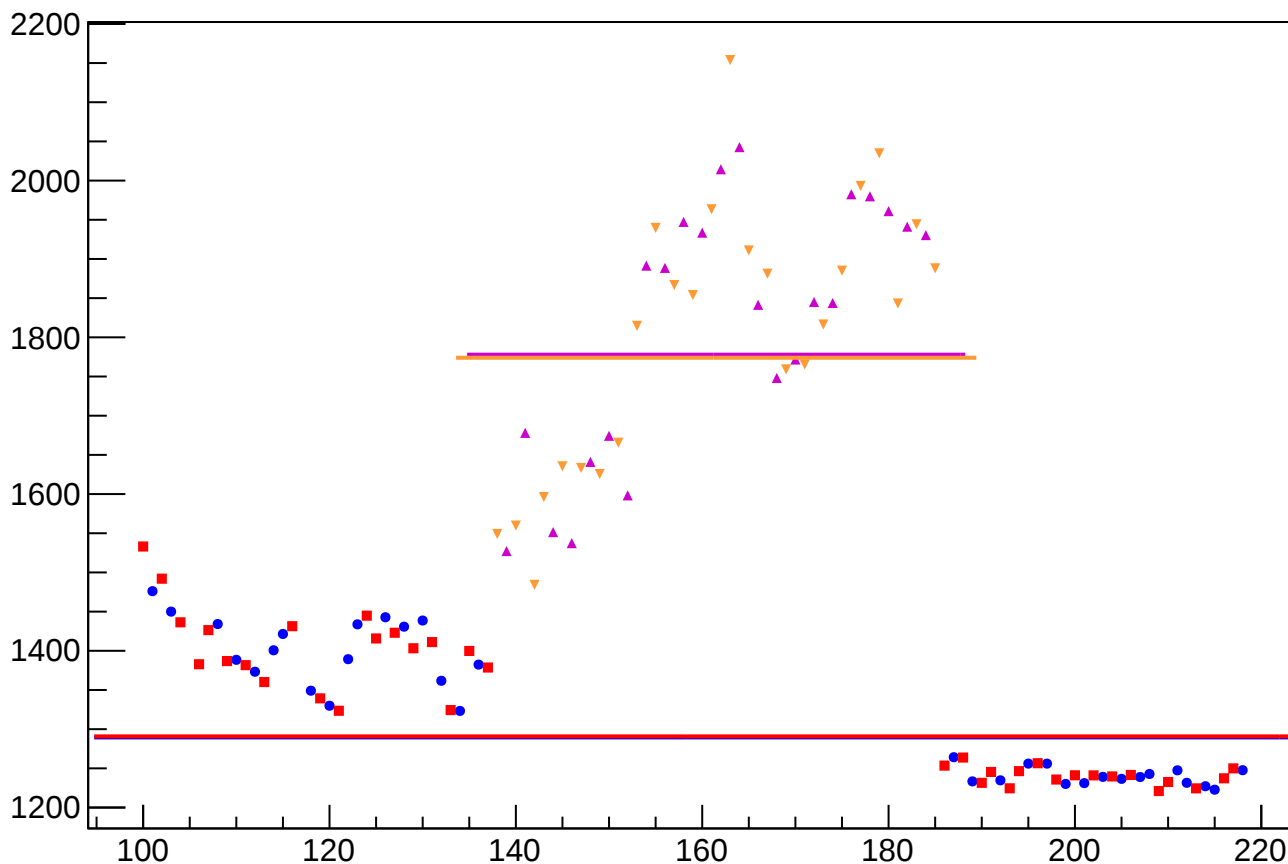
Right: -12.019 ± 0.212 $\chi^2/\text{NDF}: 26342.9/68$

In: -10.188 ± 0.247 $\chi^2/\text{NDF}: 17410.2/55$

Out: 1.902 ± 0.242 $\chi^2/\text{NDF}: 16079.1/60$

All: -4.024 ± 0.173 $\chi^2/\text{NDF}: 34710.4/116$

diff_bpm0i02X_rms vs Slug, Sign Corrected



Right In: 1289.466 $\pm$ 0.214 χ^2 /NDF: 138661.7/32

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

Right Out: 1290.793 $\pm$ 0.211 χ^2 /NDF: 135717.3/35

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

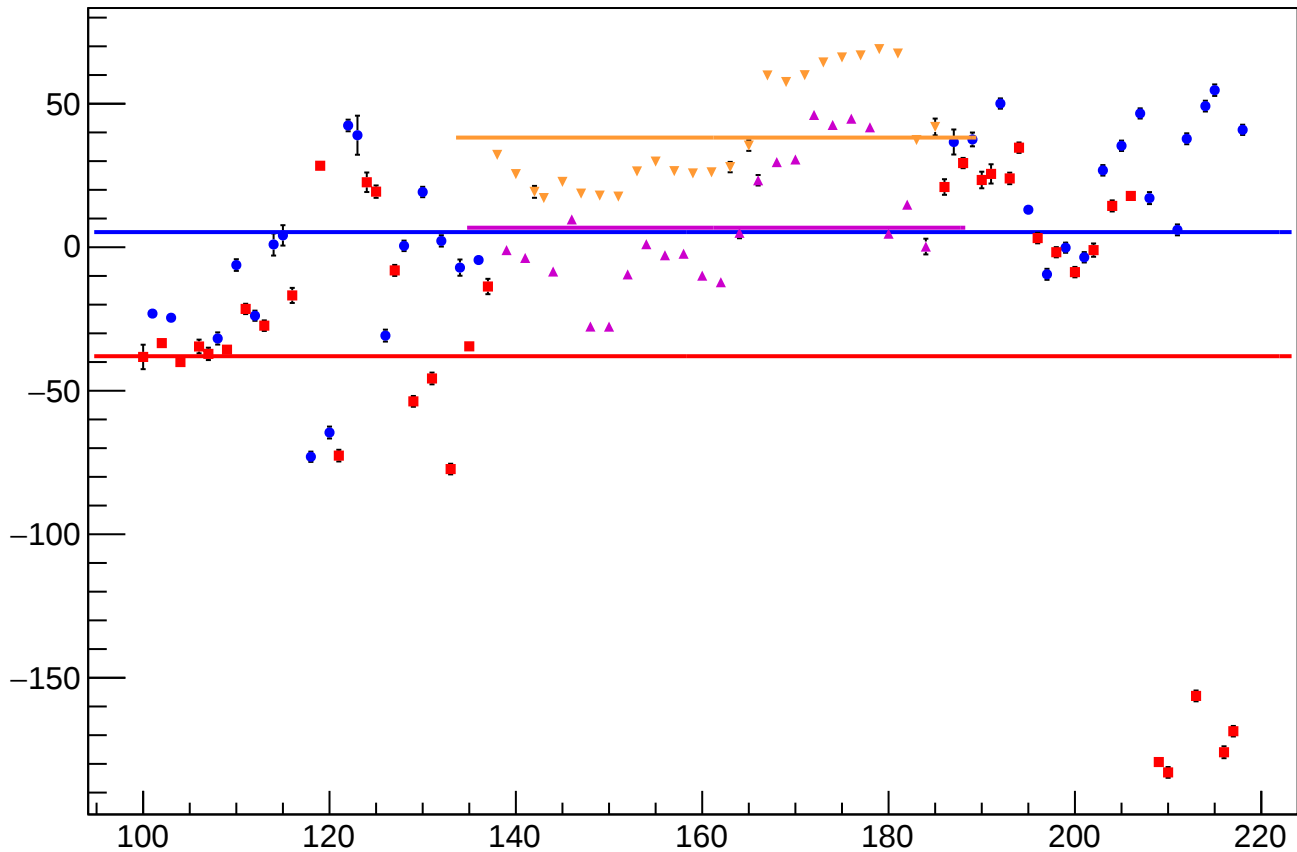
Right: 1290.138 $\pm$ 0.150 χ^2 /NDF: 274398.5/68

In: 1451.423 $\pm$ 0.175 χ^2 /NDF:2170734.8/55

Out: 1455.317 $\pm$ 0.171 χ^2 /NDF:2235943.2/60

All: 1453.408 $\pm$ 0.122 χ^2 /NDF: 4406931.4/118

diff_bpm0i02Y_mean vs Slug, Sign Corrected



Right In: 5.275 ± 0.337 $\chi^2/\text{NDF}: 9043.1/32$

Left Out: 38.206 ± 0.323 $\chi^2/\text{NDF}: 3514.2/24$

Right Out: -37.965 ± 0.331 $\chi^2/\text{NDF}: 38500.8/35$

Left In: 6.808 ± 0.333 $\chi^2/\text{NDF}: 4494.5/22$

Left: 22.967 ± 0.232 $\chi^2/\text{NDF}: 12584.4/47$

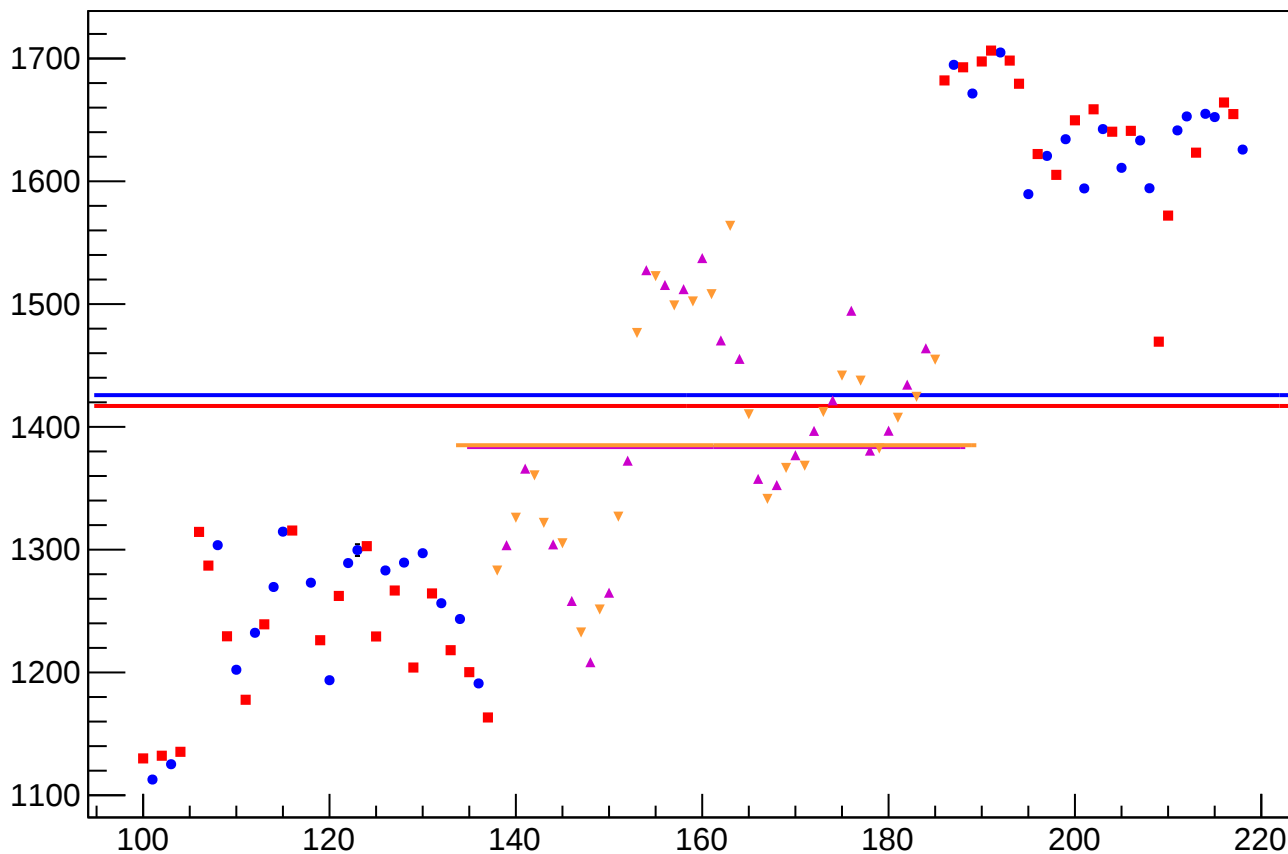
Right: -16.776 ± 0.236 $\chi^2/\text{NDF}: 55925.5/68$

In: 6.051 ± 0.237 $\chi^2/\text{NDF}: 13548.1/55$

Out: 0.965 ± 0.231 $\chi^2/\text{NDF}: 69142.4/60$

All: 3.445 ± 0.165 $\chi^2/\text{NDF}: 82926.6/116$

diff_bpm0i02Y_rms vs Slug, Sign Corrected



Right In: 1425.848 ± 0.238 χ^2/NDF : 786985.7/32

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

Right Out: 1417.028 ± 0.234 χ^2/NDF : 853077.1/35

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

Left: 1384.333 ± 0.164 χ^2/NDF : 300718.5/47

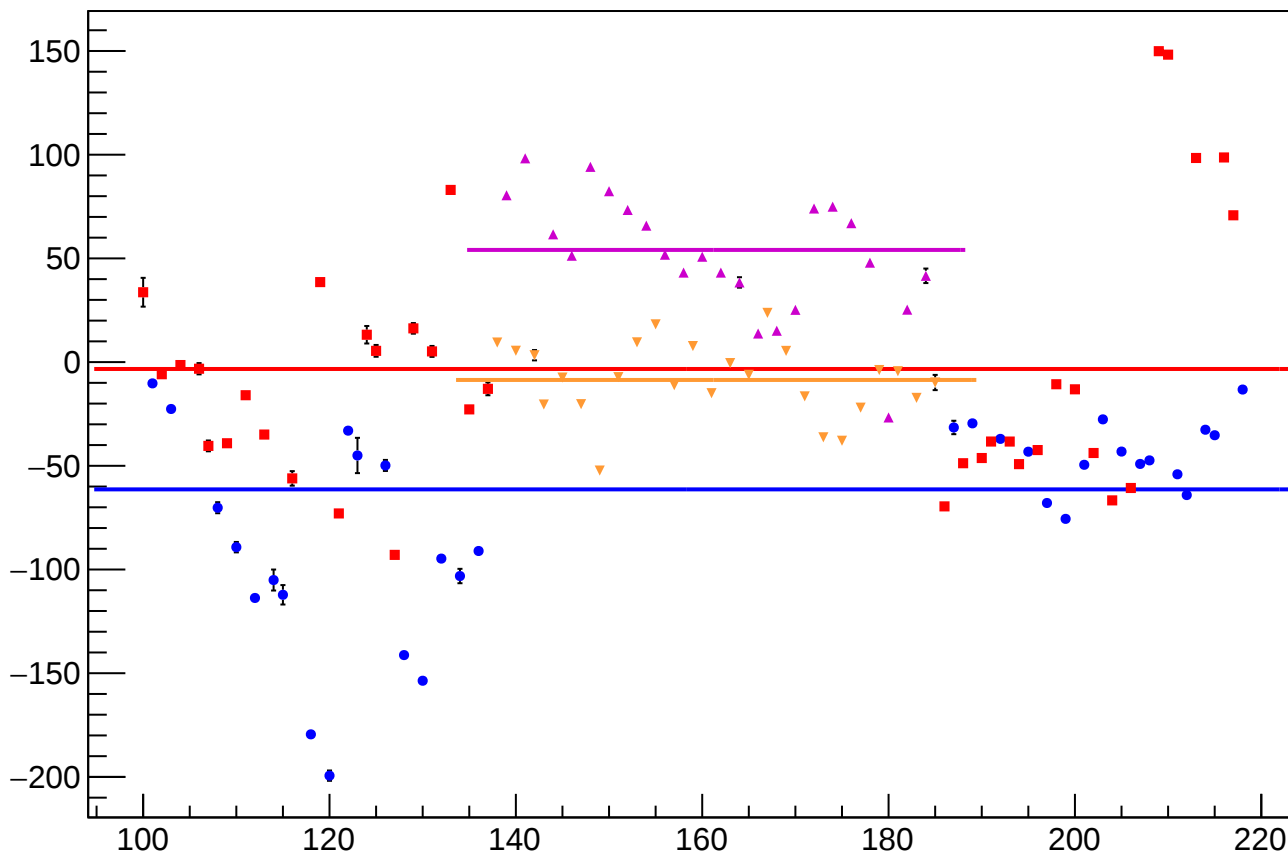
Right: 1421.350 ± 0.167 χ^2/NDF : 1640760.3/68

In: 1404.432 ± 0.168 χ^2/NDF : 957604.9/55

Out: 1400.692 ± 0.163 χ^2/NDF : 1008632.9/60

All: 1402.515 ± 0.117 χ^2/NDF : 1966493.1/111

diff_bpm0i02aX_mean vs Slug, Sign Corrected



Right In: -61.365 ± 0.341 χ^2/NDF : 14748.4/32

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

Right Out: -3.313 ± 0.332 χ^2/NDF : 38508.7/35

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

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

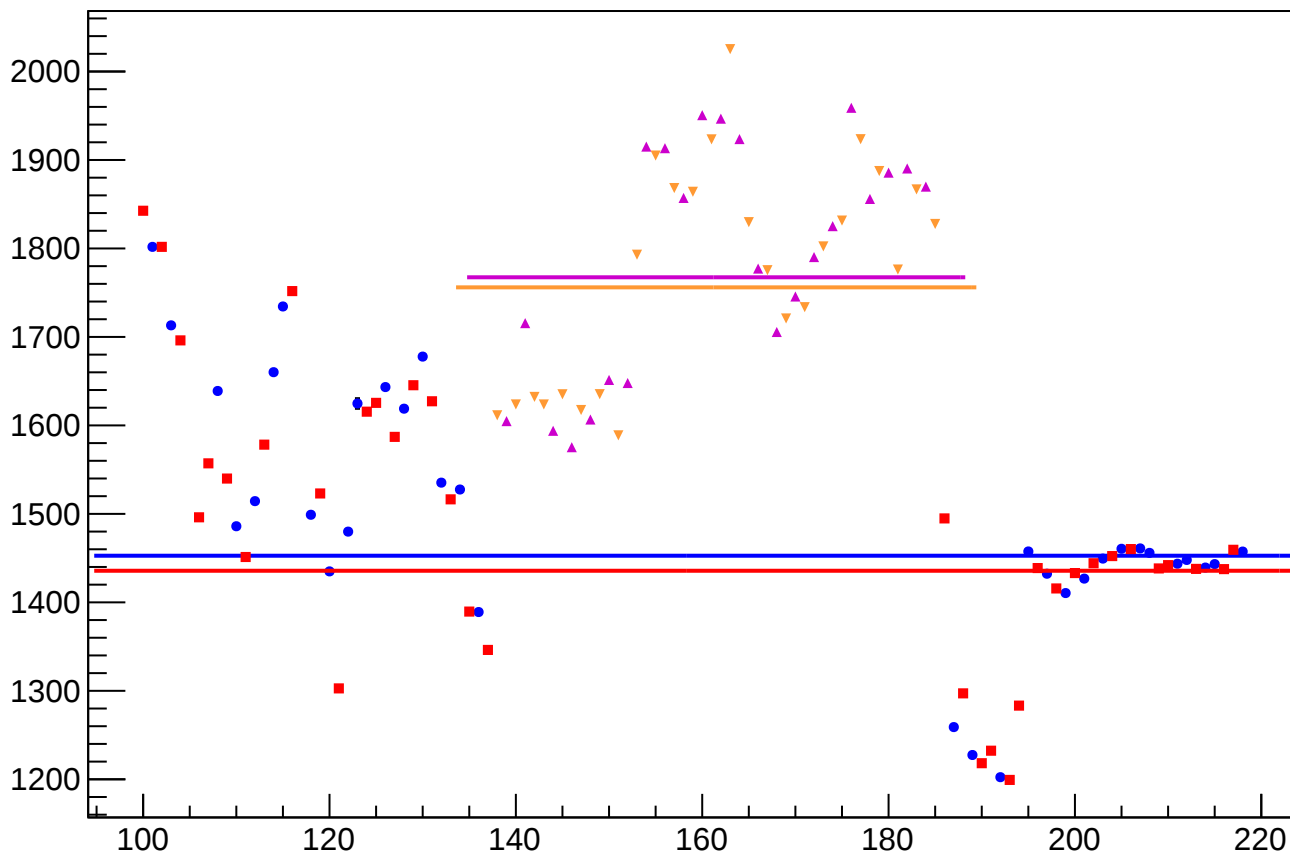
Right: -31.601 ± 0.238 χ^2/NDF : 68111.0/68

In: -16.221 ± 0.266 χ^2/NDF : 64276.3/55

Out: -5.411 ± 0.258 χ^2/NDF : 40539.7/60

All: -10.654 ± 0.185 χ^2/NDF : 105665.4/116

diff_bpm0i02aX_rms vs Slug, Sign Corrected



Right In: 1452.709 $\pm$ 0.241 χ^2/NDF : 261893.5/32

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

Right Out: 1435.718 $\pm$ 0.235 χ^2/NDF : 309256.2/35

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

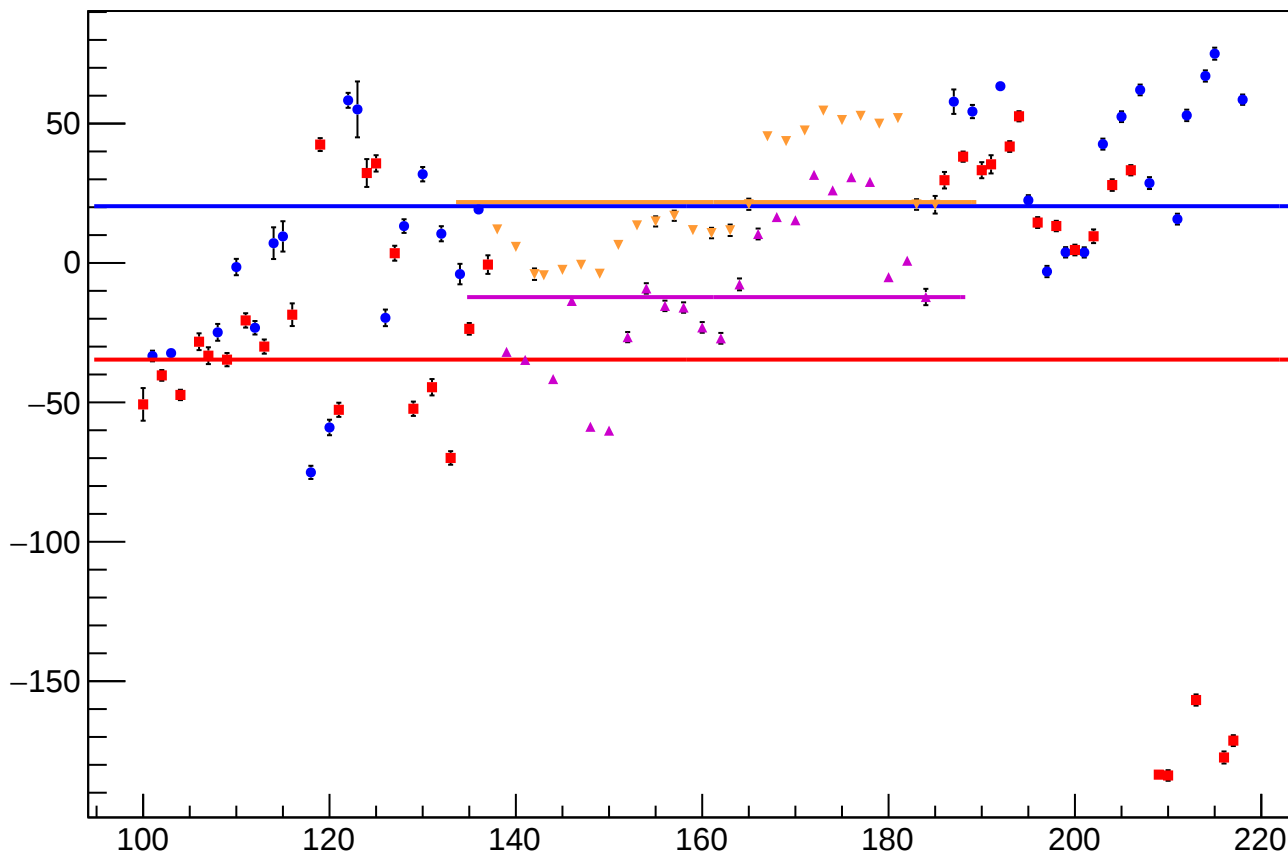
Right: 1443.997 $\pm$ 0.168 χ^2/NDF : 573694.6/68

In: 1575.762 $\pm$ 0.188 χ^2/NDF :1115665.2/55

Out: 1562.719 $\pm$ 0.183 χ^2/NDF :1220953.8/60

All: 1569.046 $\pm$ 0.131 χ^2/NDF : 2339092.2/11

diff_bpm0i02aY_mean vs Slug, Sign Corrected



Right In: 20.363 ± 0.392 χ^2/NDF : 9123.6/32

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

Right Out: -34.656 ± 0.383 χ^2/NDF : 41110.8/35

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

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

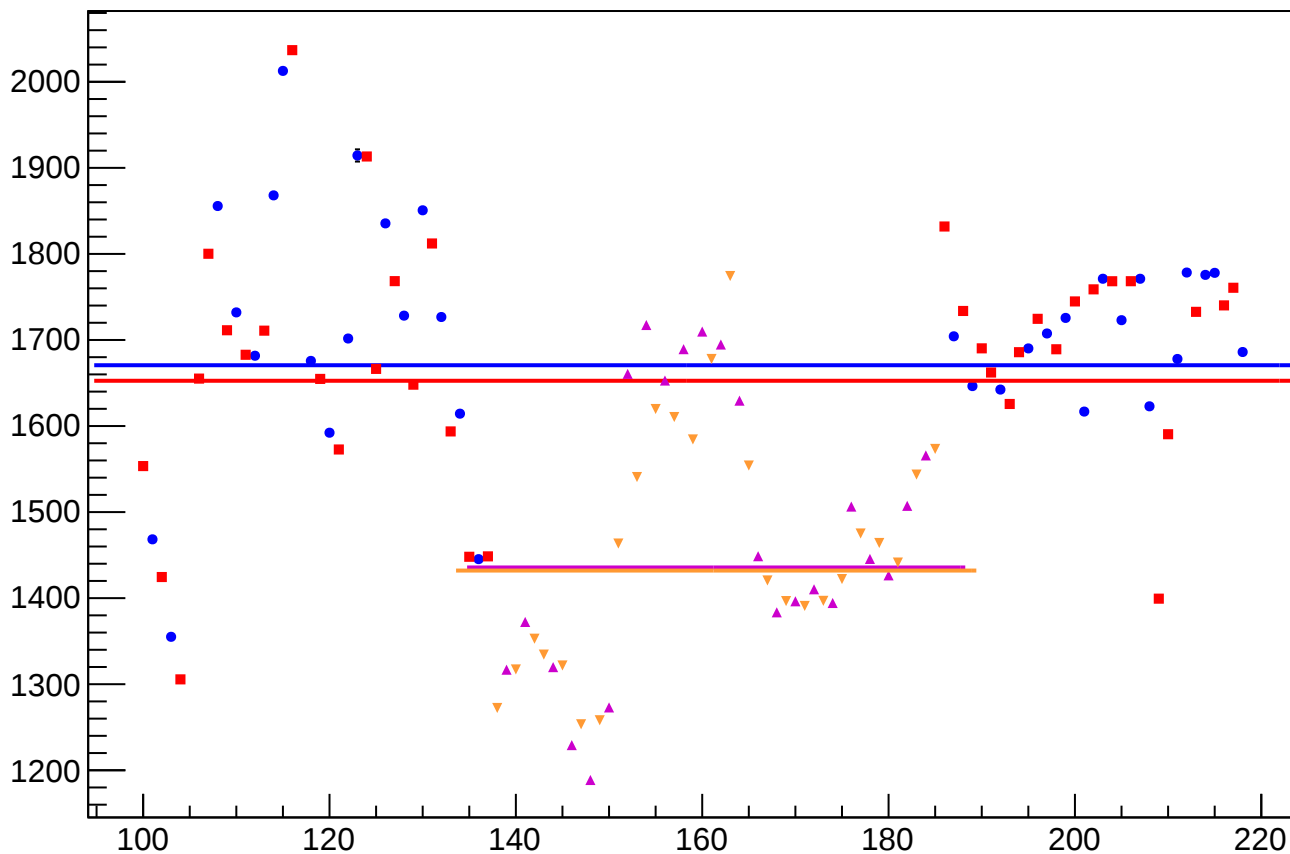
Right: -7.826 ± 0.274 χ^2/NDF : 60305.4/68

In: 2.065 ± 0.260 χ^2/NDF : 19779.7/55

Out: -2.676 ± 0.252 χ^2/NDF : 57551.1/60

All: -0.377 ± 0.181 χ^2/NDF : 77502.1/116

diff_bpm0i02aY_rms vs Slug, Sign Corrected



Right In: 1670.659+/-0.277 χ^2/NDF : 198928.0/32

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

Right Out: 1652.599+/-0.271 χ^2/NDF : 268829.6/35

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

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

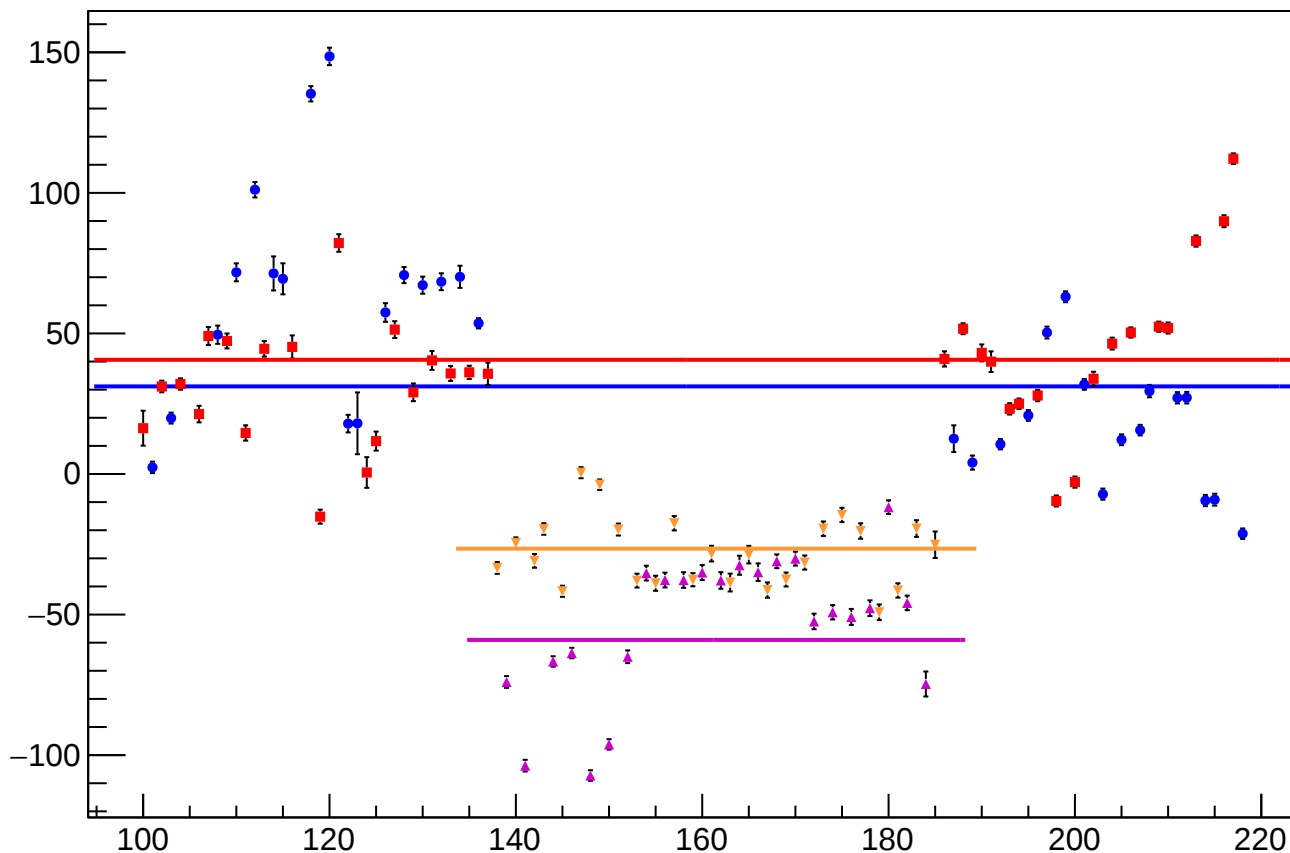
Right: 1661.406+/-0.194 χ^2/NDF : 469927.9/68

In: 1538.784+/-0.184 χ^2/NDF : 1022250.6/55

Out: 1527.794+/-0.178 χ^2/NDF : 941741.8/60

All: 1533.123+/-0.128 χ^2/NDF : 1965833.1/11

diff_bpm0i05X_mean vs Slug, Sign Corrected



Right In: 31.161 ± 0.414 $\chi^2/\text{NDF}: 7625.8/32$

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

Right Out: 40.626 ± 0.404 $\chi^2/\text{NDF}: 4905.8/35$

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

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

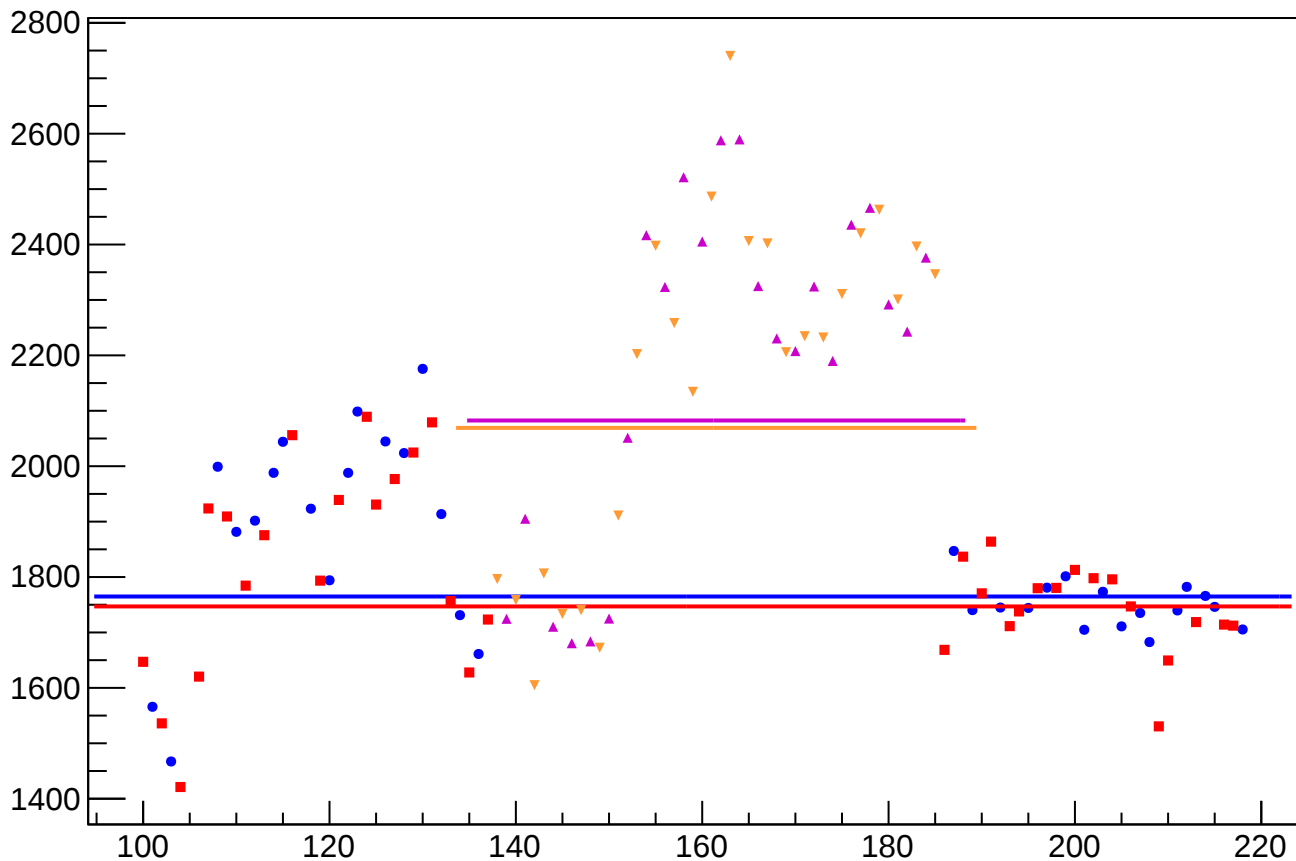
Right: 36.009 ± 0.289 $\chi^2/\text{NDF}: 12798.9/68$

In: -4.999 ± 0.321 $\chi^2/\text{NDF}: 29401.7/55$

Out: 13.269 ± 0.311 $\chi^2/\text{NDF}: 16863.8/60$

All: 4.406 ± 0.223 $\chi^2/\text{NDF}: 47936.1/116$

diff_bpm0i05X_rms vs Slug, Sign Corrected



Right In: 1764.884 ± 0.293 $\chi^2/\text{NDF}: 200689.7/32$

Left Out: 2069.146 ± 0.345 $\chi^2/\text{NDF}: 799037.9/24$

Right Out: 1746.962 ± 0.286 $\chi^2/\text{NDF}: 229335.6/35$

Left In: 2082.497 ± 0.358 $\chi^2/\text{NDF}: 785304.0/22$

Left: 2075.572 ± 0.248 $\chi^2/\text{NDF}: 1585062.9/47$

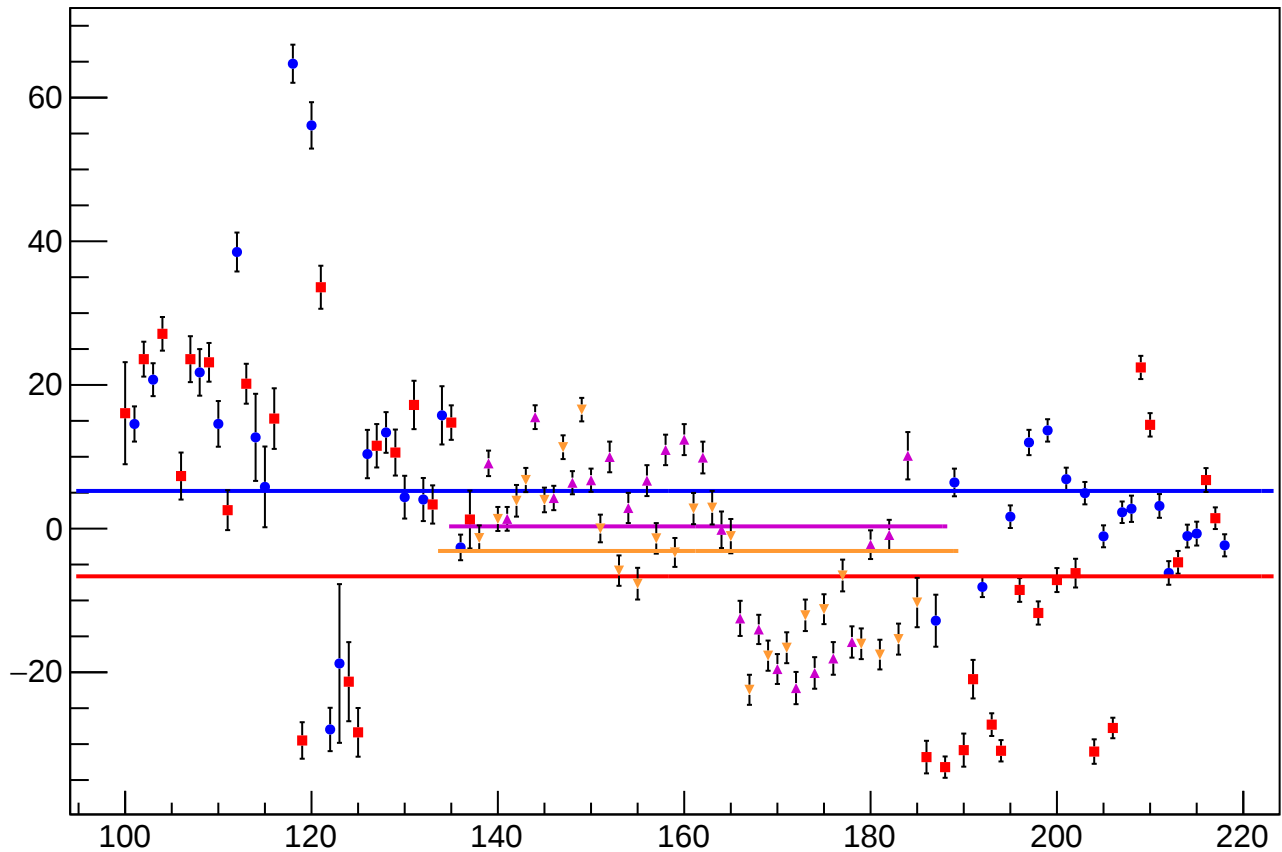
Right: 1755.704 ± 0.205 $\chi^2/\text{NDF}: 431942.0/68$

In: 1892.246 ± 0.227 $\chi^2/\text{NDF}: 1457220.3/55$

Out: 1878.161 ± 0.220 $\chi^2/\text{NDF}: 1545433.9/60$

All: 1884.995 ± 0.158 $\chi^2/\text{NDF}: 3004640.6/11$

diff_bpm0i05Y_mean vs Slug, Sign Corrected



Right In: 5.244 ± 0.358 $\chi^2/\text{NDF}: 1450.8/32$

Left Out: -3.112 ± 0.404 $\chi^2/\text{NDF}: 643.7/24$

Right Out: -6.642 ± 0.352 $\chi^2/\text{NDF}: 3296.9/35$

Left In: 0.312 ± 0.421 $\chi^2/\text{NDF}: 736.5/22$

Left: -1.470 ± 0.292 $\chi^2/\text{NDF}: 1414.7/47$

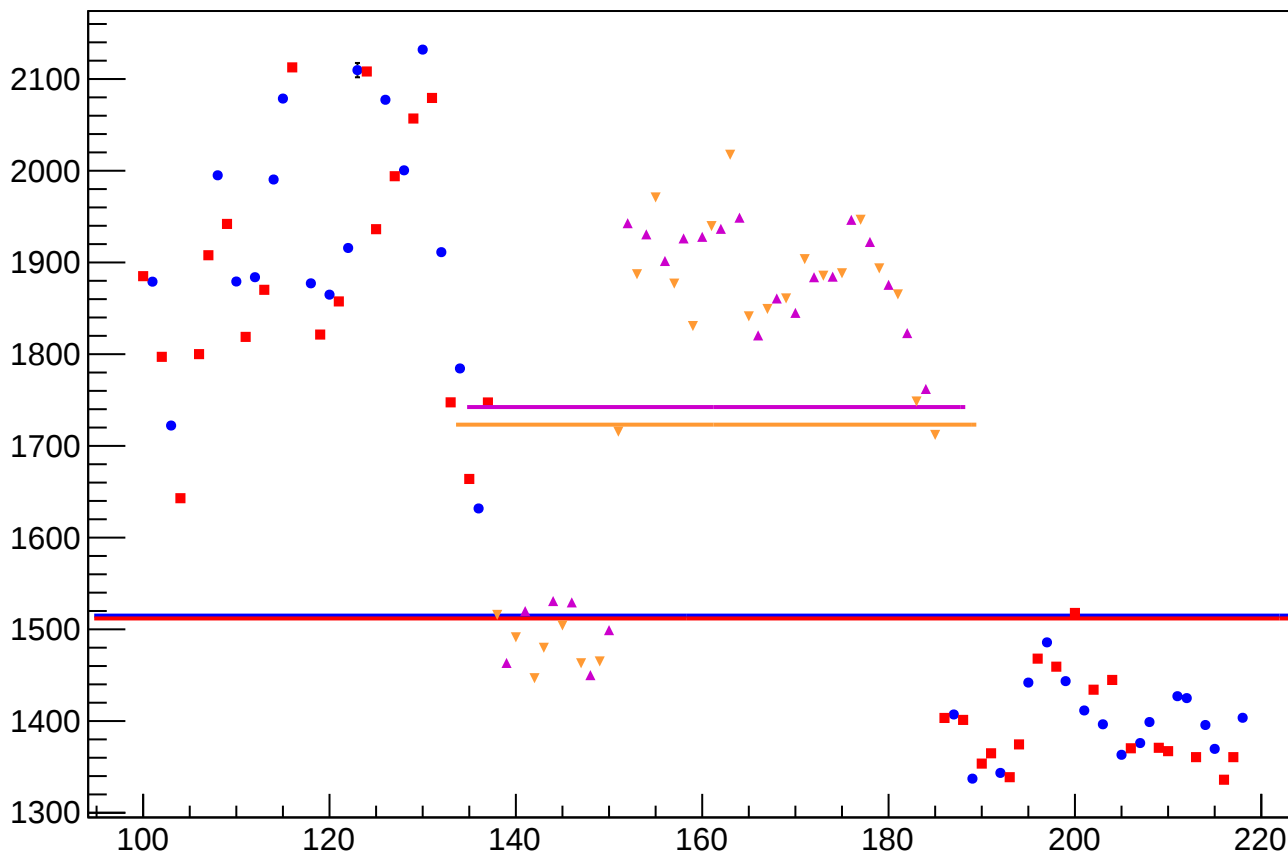
Right: -0.797 ± 0.251 $\chi^2/\text{NDF}: 5307.3/68$

In: 3.173 ± 0.273 $\chi^2/\text{NDF}: 2266.9/55$

Out: -5.118 ± 0.266 $\chi^2/\text{NDF}: 3984.0/60$

All: -1.083 ± 0.190 $\chi^2/\text{NDF}: 6725.0/116$

diff_bpm0i05Y_rms vs Slug, Sign Corrected



Right In: 1514.964 $\pm$ 0.253 χ^2 /NDF: 725813.1/32

Left Out: 1723.168 $\pm$ 0.286 χ^2 /NDF: 477441.1/24

Right Out: 1511.846 $\pm$ 0.249 χ^2 /NDF: 735369.8/35

Left In: 1742.354 $\pm$ 0.298 χ^2 /NDF: 435841.5/22

Left: 1732.370 $\pm$ 0.206 χ^2 /NDF: 915443.3/47

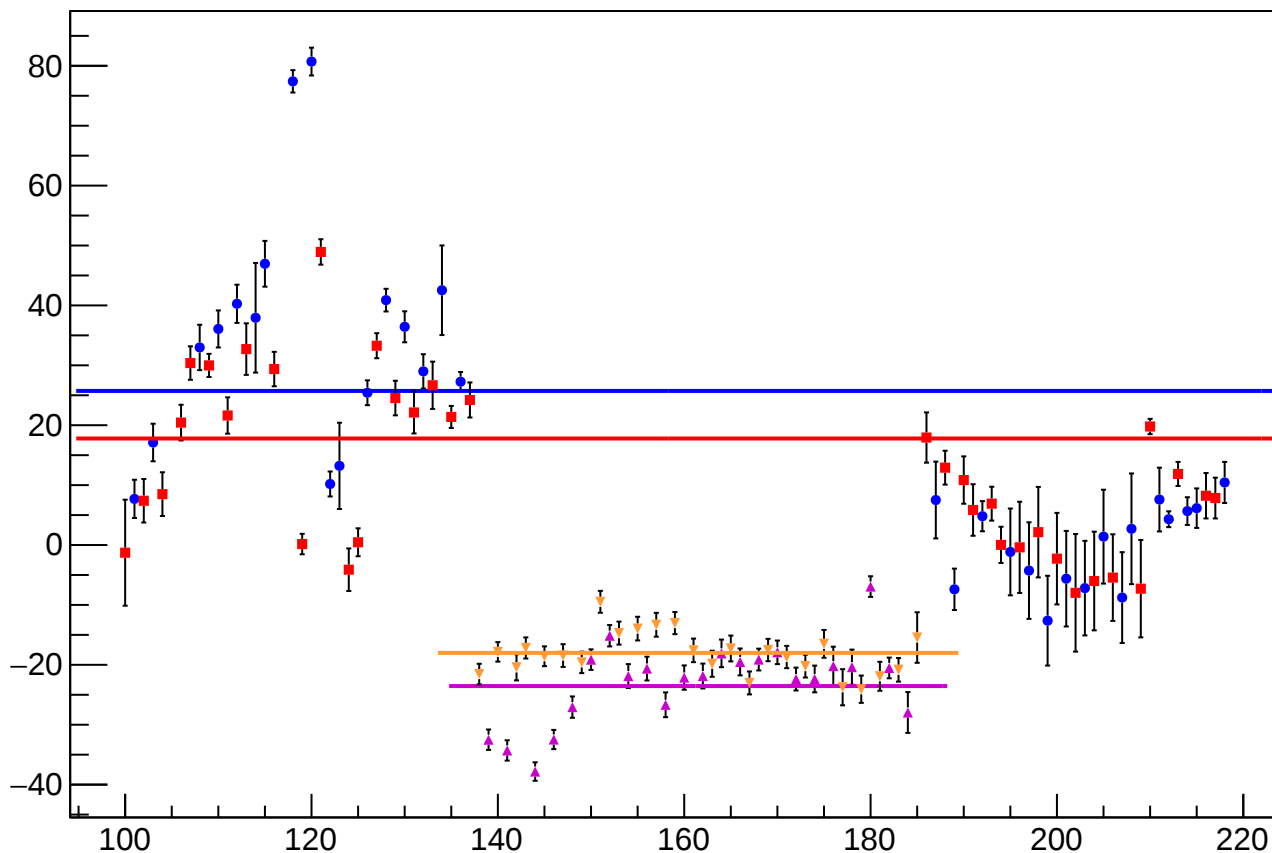
Right: 1513.379 $\pm$ 0.178 χ^2 /NDF: 1461260.0/68

In: 1610.435 $\pm$ 0.193 χ^2 /NDF: 1500016.2/55

Out: 1603.083 $\pm$ 0.188 χ^2 /NDF: 1523400.3/60

All: 1606.660 $\pm$ 0.135 χ^2 /NDF: 3024162.0/117

diff_bpm0i07X_mean vs Slug, Sign Corrected



Right In: 25.725+/-0.512 χ^2/NDF : 2275.5/32

Left Out: -18.007+/-0.397 χ^2/NDF : 73.8/24

Right Out: 17.785+/-0.479 χ^2/NDF : 742.1/35

Left In: -23.544+/-0.406 χ^2/NDF : 346.7/22

Left: -20.714+/-0.284 χ^2/NDF : 515.7/47

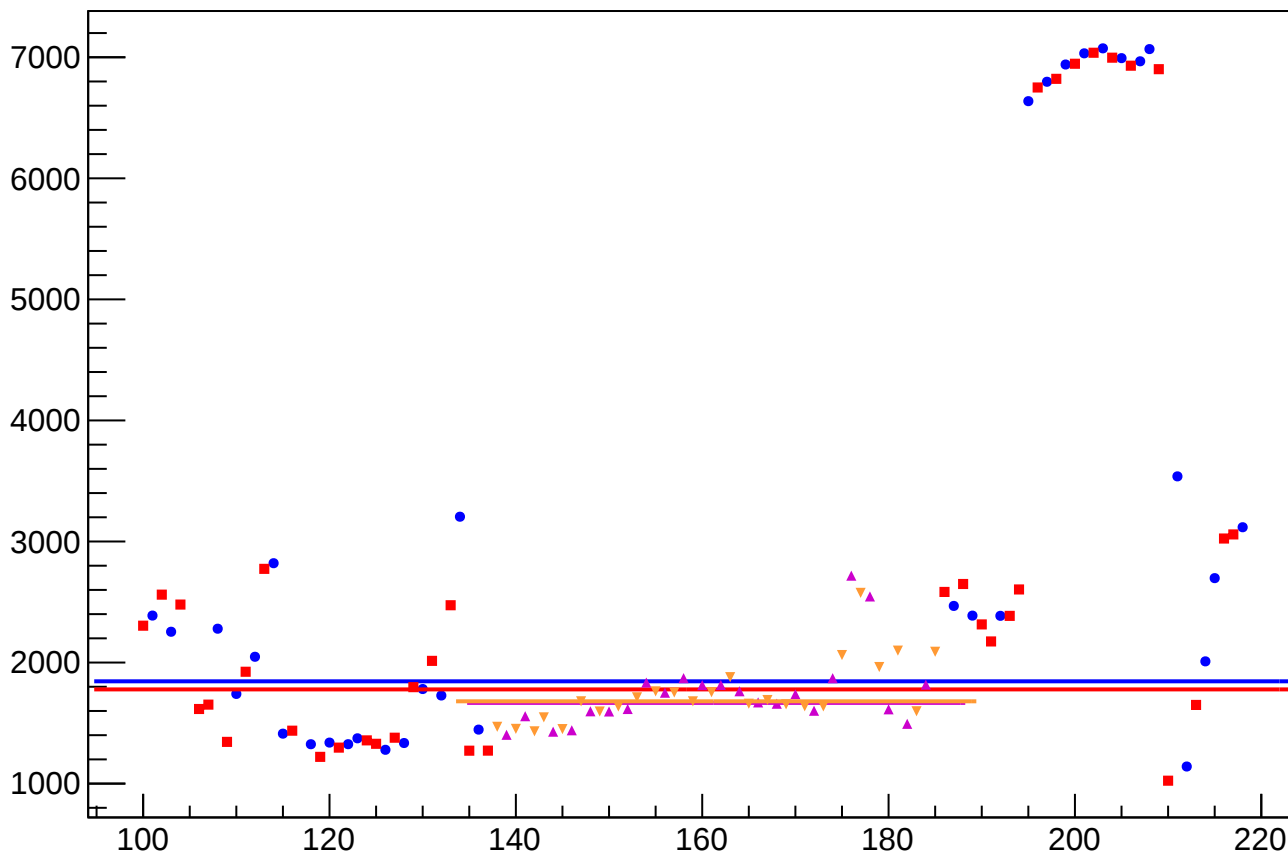
Right: 21.495+/-0.350 χ^2/NDF : 3145.8/68

In: -4.538+/-0.318 χ^2/NDF : 8313.0/55

Out: -3.458+/-0.306 χ^2/NDF : 4125.0/60

All: -3.977+/-0.220 χ^2/NDF : 12444.0/116

diff_bpm0i07X_rms vs Slug, Sign Corrected



Right In: 1845.010+/-0.362 χ^2/NDF : 9084376.5/32

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

Right Out: 1778.170+/-0.339 χ^2/NDF : 8805502.5/35

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

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

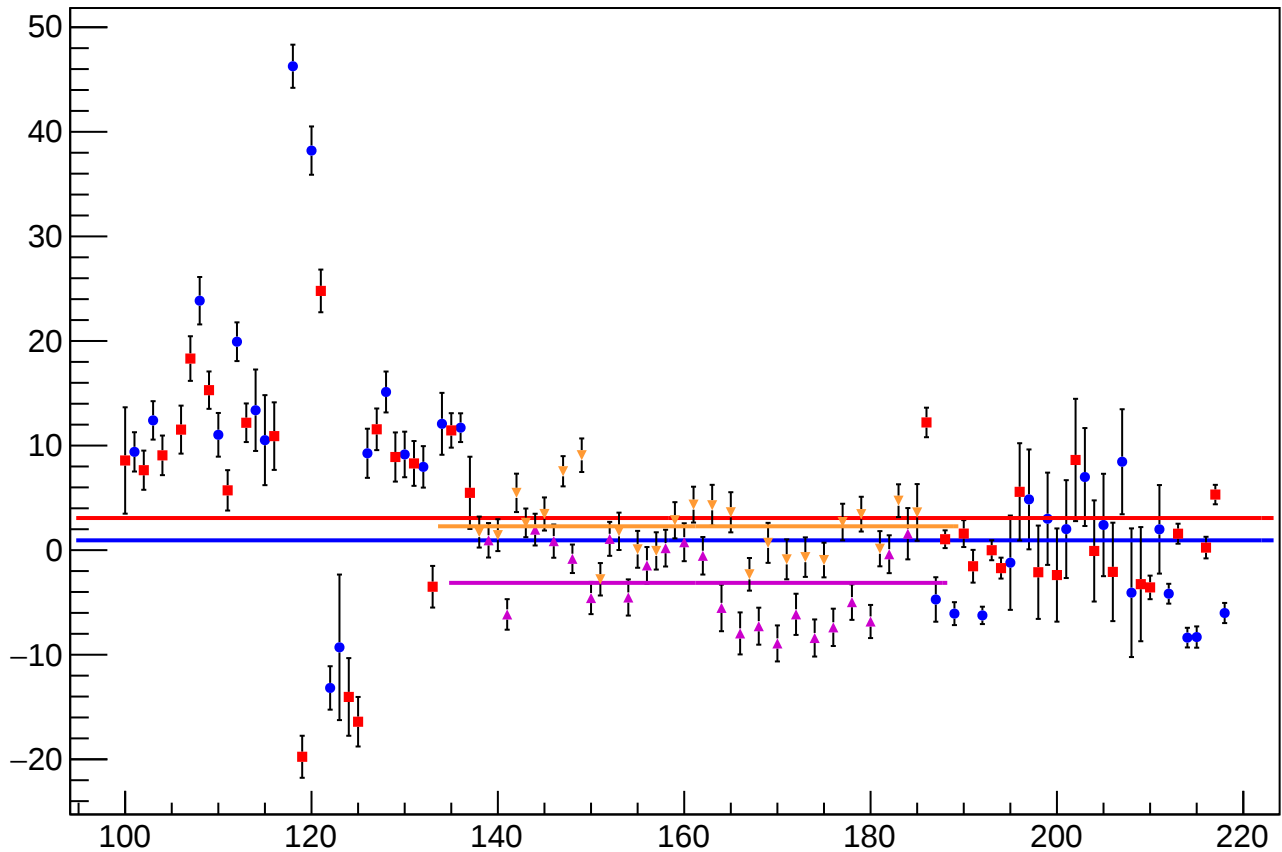
Right: 1809.399+/-0.247 χ^2/NDF : 17908047.9/68

In: 1735.560+/-0.225 χ^2/NDF : 9884239.9/55

Out: 1719.795+/-0.216 χ^2/NDF : 9378275.8/60

All: 1727.366+/-0.156 χ^2/NDF : 19265071.6/112

diff_bpm0i07Y_mean vs Slug, Sign Corrected



Right In: 0.938 $\pm$ 0.304 χ^2/NDF : 1653.8/32

Left Out: 2.280 $\pm$ 0.338 χ^2/NDF : 75.6/24

Right Out: 3.071 $\pm$ 0.274 χ^2/NDF : 707.6/35

Left In: -3.129 $\pm$ 0.358 χ^2/NDF : 103.4/22

Left: -0.274 $\pm$ 0.246 χ^2/NDF : 299.7/47

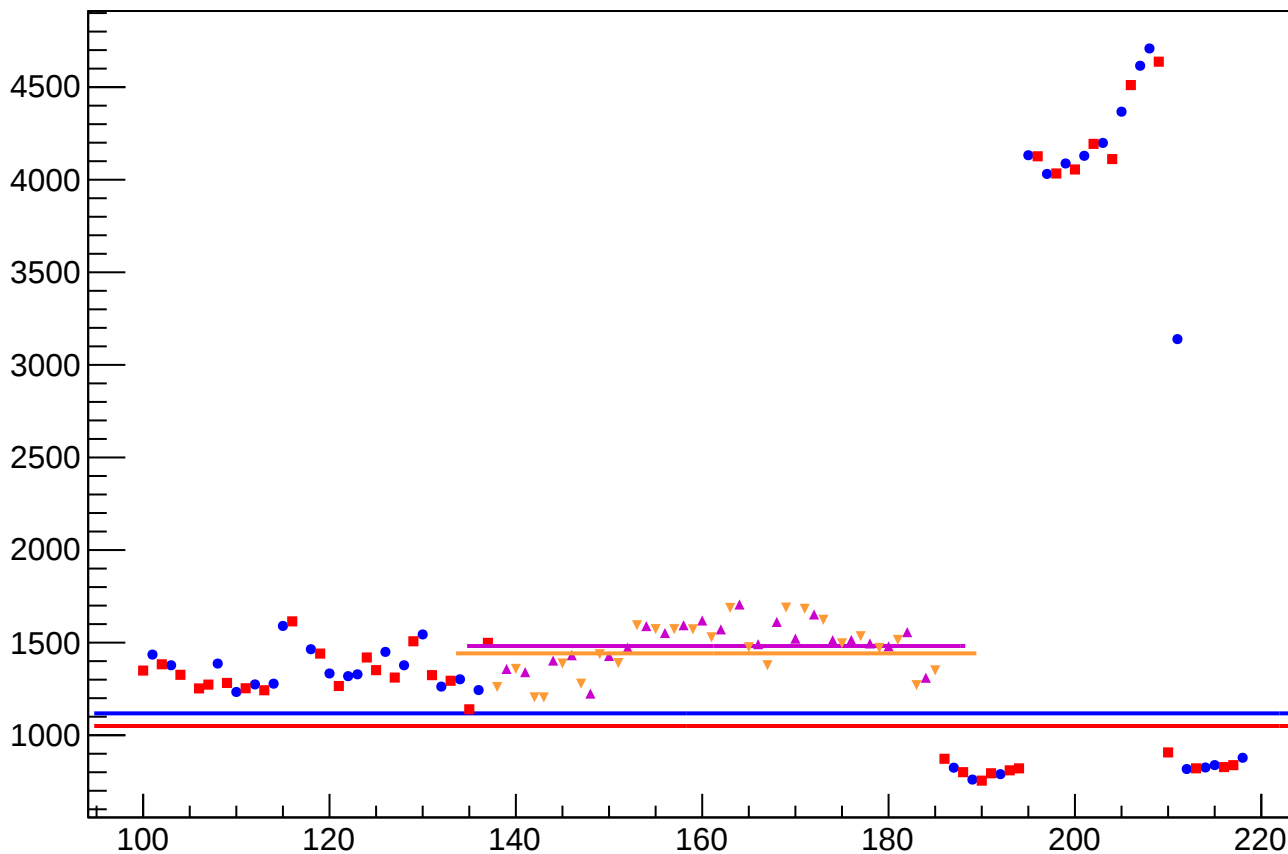
Right: 2.116 $\pm$ 0.203 χ^2/NDF : 2388.6/68

In: -0.767 $\pm$ 0.232 χ^2/NDF : 1832.2/55

Out: 2.758 $\pm$ 0.213 χ^2/NDF : 786.5/60

All: 1.144 $\pm$ 0.157 χ^2/NDF : 2744.4/116

diff_bpm0i07Y_rms vs Slug, Sign Corrected



Right In: 1118.005 ± 0.215 χ^2/NDF : 8913234.1/32

Left Out: 1441.951 ± 0.239 χ^2/NDF : 370617.4/24

Right Out: 1049.740 ± 0.194 χ^2/NDF : 7592991.9/35

Left In: 1481.695 ± 0.253 χ^2/NDF : 208470.6/22

Left: 1460.716 ± 0.174 χ^2/NDF : 592125.7/47

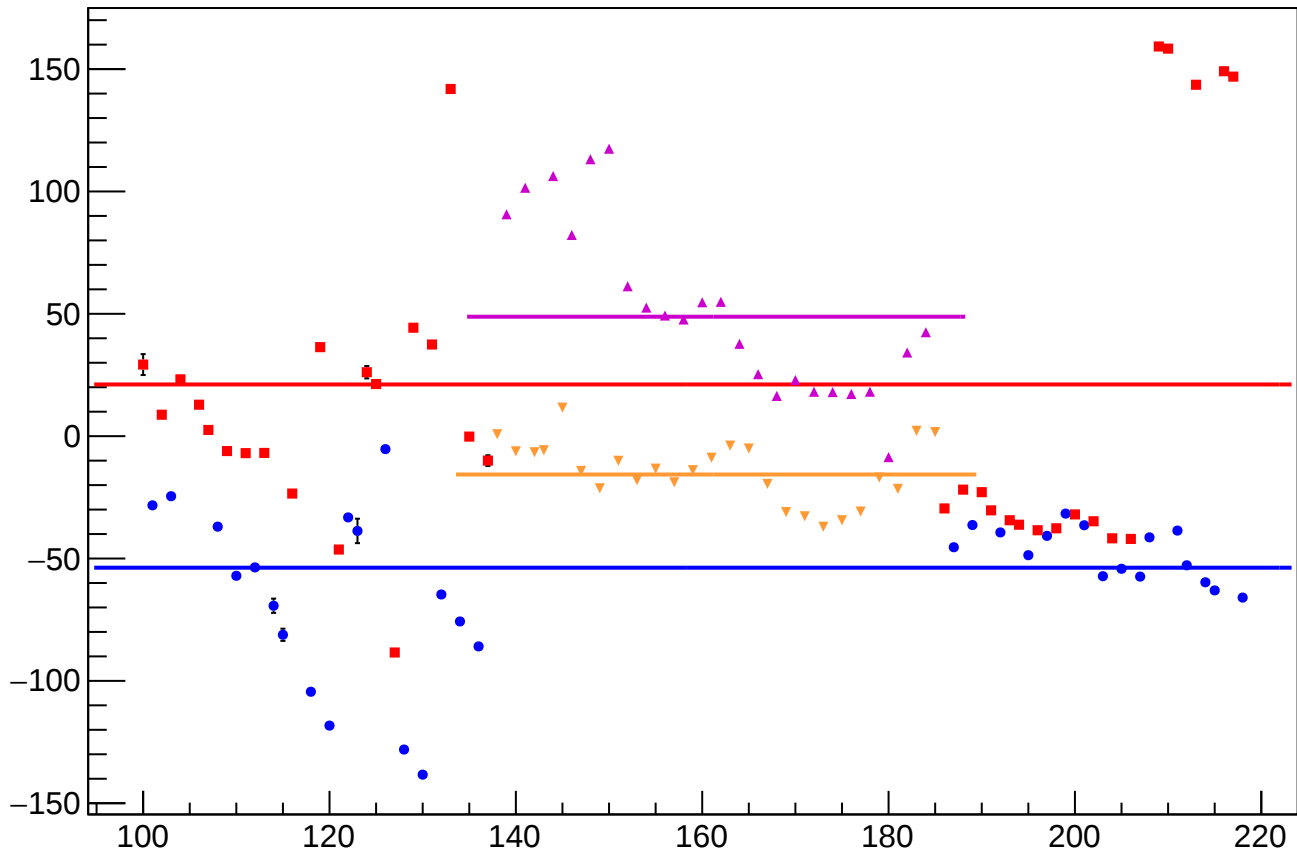
Right: 1080.315 ± 0.144 χ^2/NDF : 16561938.5/68

In: 1270.511 ± 0.164 χ^2/NDF : 10322690.5/55

Out: 1204.952 ± 0.150 χ^2/NDF : 9588549.4/60

All: 1234.961 ± 0.111 χ^2/NDF : 19998149.4/1

diff_bpm1i02X_mean vs Slug, Sign Corrected



Right In: -53.753 ± 0.167 $\chi^2/\text{NDF}: 18214.0/32$

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

Right Out: 21.130 ± 0.165 $\chi^2/\text{NDF}: 233583.5/35$

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

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

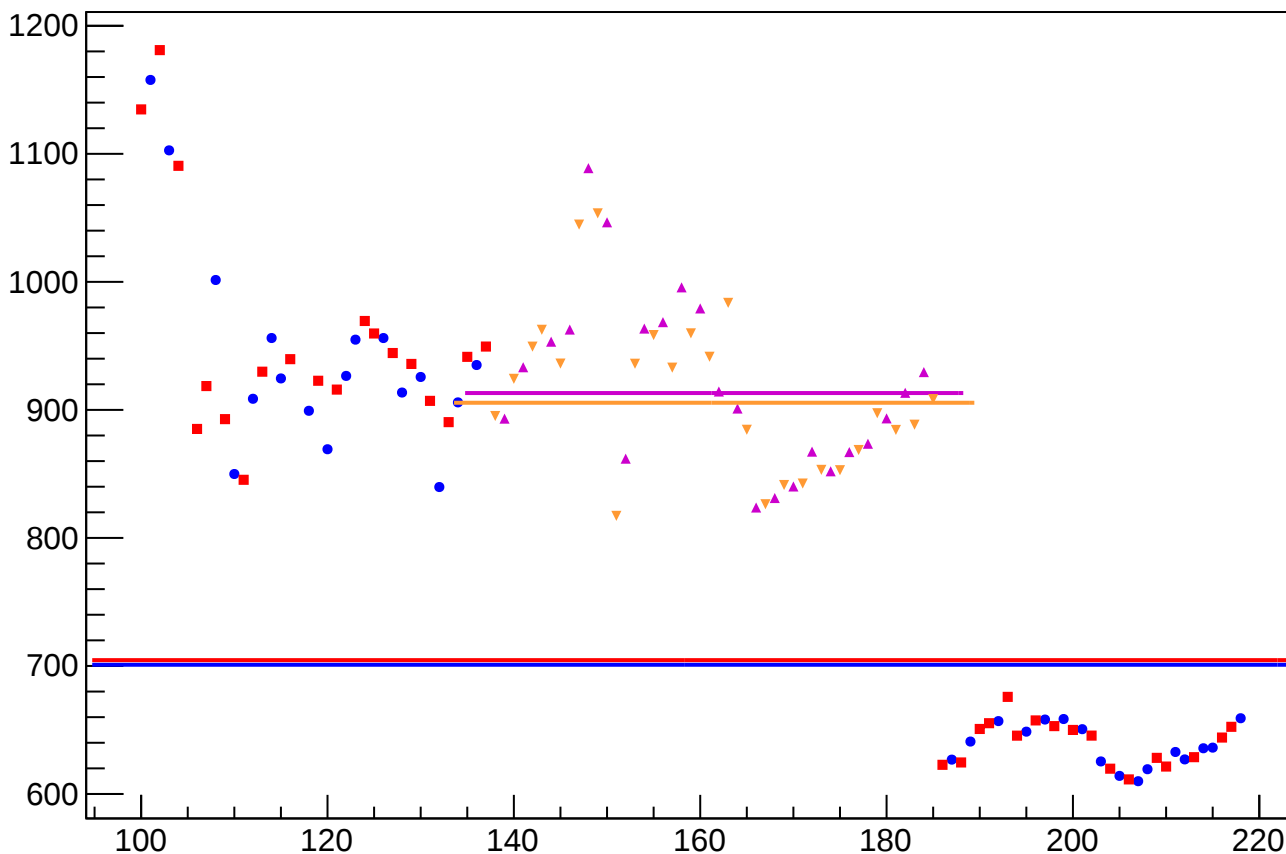
Right: -15.973 ± 0.117 $\chi^2/\text{NDF}: 353580.6/68$

In: -16.311 ± 0.133 $\chi^2/\text{NDF}: 181637.9/55$

Out: 7.186 ± 0.130 $\chi^2/\text{NDF}: 255897.4/60$

All: -4.326 ± 0.093 $\chi^2/\text{NDF}: 453491.7/116$

diff_bpm1i02X_rms vs Slug, Sign Corrected



Right In: 700.941 $\pm$ 0.118 χ^2 /NDF: 1190572.4/32

Left Out: 905.578 $\pm$ 0.150 χ^2 /NDF: 162073.5/24

Right Out: 704.544 $\pm$ 0.117 χ^2 /NDF: 1240194.9/35

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

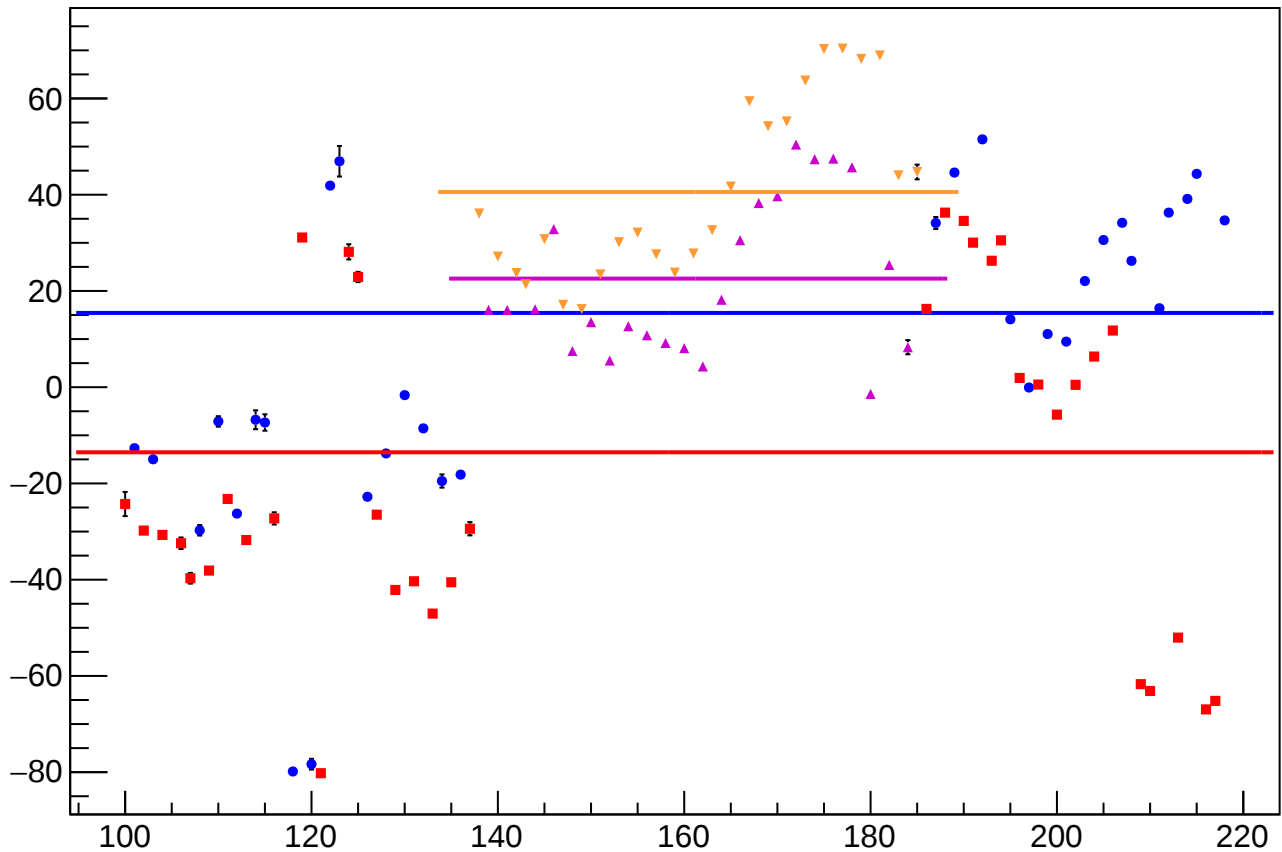
Right: 702.759 $\pm$ 0.083 χ^2 /NDF: 2431238.7/68

In: 778.415 $\pm$ 0.094 χ^2 /NDF: 2548067.8/55

Out: 780.726 $\pm$ 0.092 χ^2 /NDF: 2524334.8/60

All: 779.594 $\pm$ 0.066 χ^2 /NDF: 5072711.1/116

diff_bpm1i02Y_mean vs Slug, Sign Corrected



Right In: 15.434+/-0.125 χ^2/NDF : 49845.6/32

Left Out: 40.573+/-0.168 χ^2/NDF :12079.0/24

Right Out: -13.527+/-0.123 χ^2/NDF : 85112.6/35

Left In: 22.565+/-0.175 χ^2/NDF :8167.7/22

Left: 31.959+/-0.121 χ^2/NDF : 25752.7/47

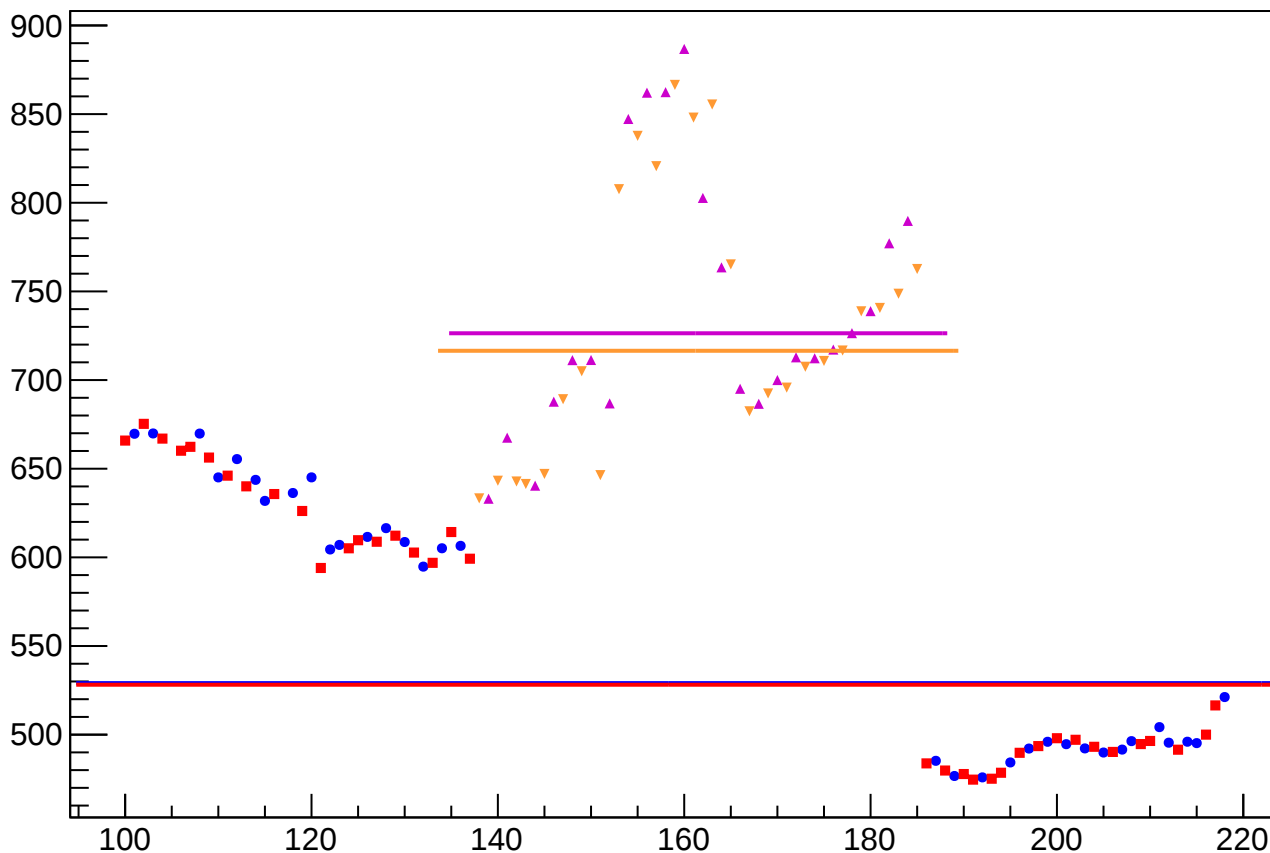
Right: 0.726+/-0.087 χ^2/NDF : 162391.3/68

In: 17.828+/-0.102 χ^2/NDF :59112.9/55

Out: 5.308+/-0.099 χ^2/NDF :164915.9/60

All: 11.410+/-0.071 χ^2/NDF : 231818.4/116

diff_bpm1i02Y_rms vs Slug, Sign Corrected



Right In: 529.071+/-0.088 χ^2/NDF : 499580.7/32

Left Out: 716.515+/-0.119 χ^2/NDF : 342740.2/24

Right Out: 528.163+/-0.087 χ^2/NDF : 540859.4/35

Left In: 726.390+/-0.124 χ^2/NDF : 289788.8/22

Left: 721.238+/-0.086 χ^2/NDF : 635840.6/47

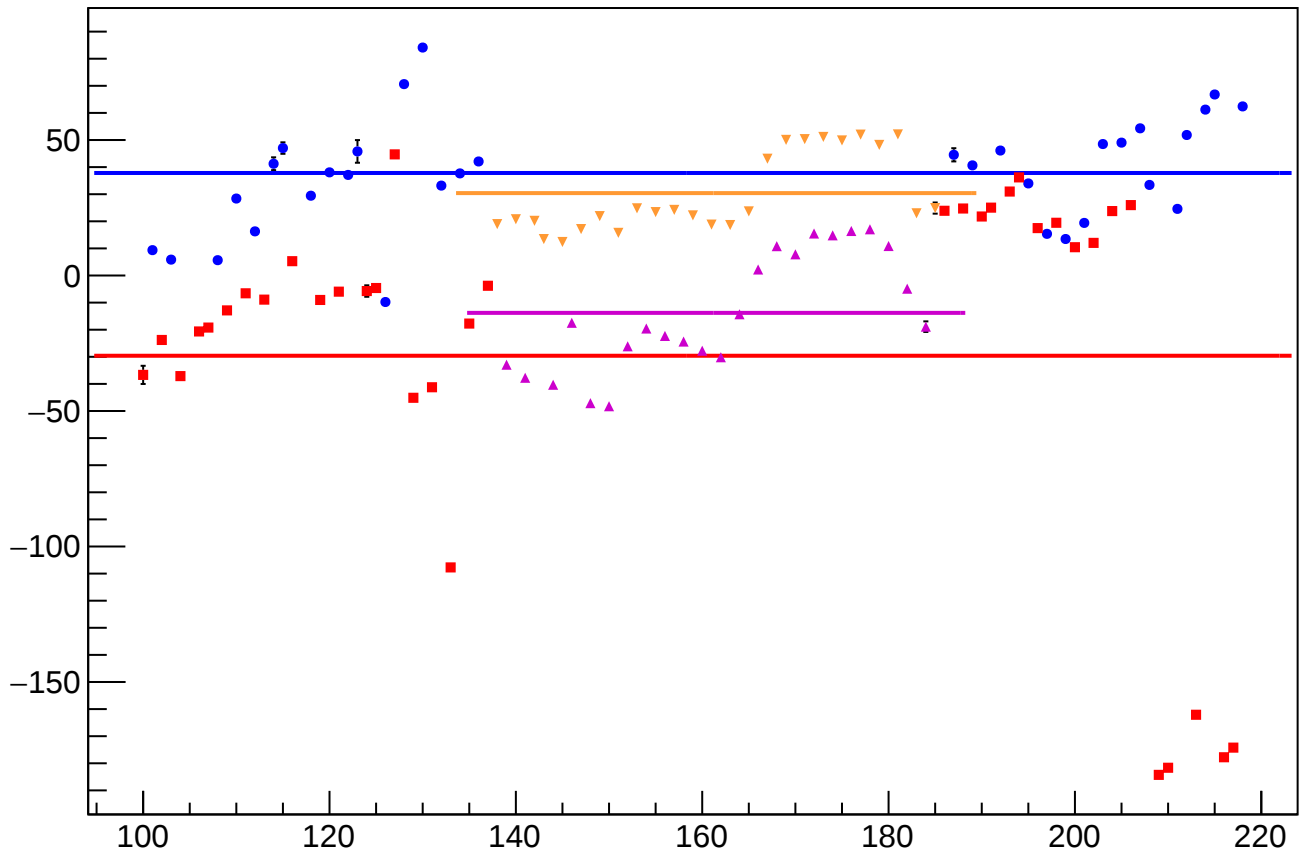
Right: 528.610+/-0.062 χ^2/NDF : 1040494.0/68

In: 595.314+/-0.072 χ^2/NDF : 2473007.0/55

Out: 593.739+/-0.070 χ^2/NDF : 2525424.0/60

All: 594.507+/-0.050 χ^2/NDF : 4998677.5/116

diff_bpm1i04X_mean vs Slug, Sign Corrected



Right In: 37.834 $\pm$ 0.204 χ^2 /NDF: 10411.5/32

Left Out: 30.408 $\pm$ 0.237 χ^2 /NDF:3808.0/24

Right Out: -29.609 $\pm$ 0.201 χ^2 /NDF: 124203.6/35

Left In: -13.787 $\pm$ 0.246 χ^2 /NDF:7979.7/22

Left: 9.082 $\pm$ 0.171 χ^2 /NDF: 28511.9/47

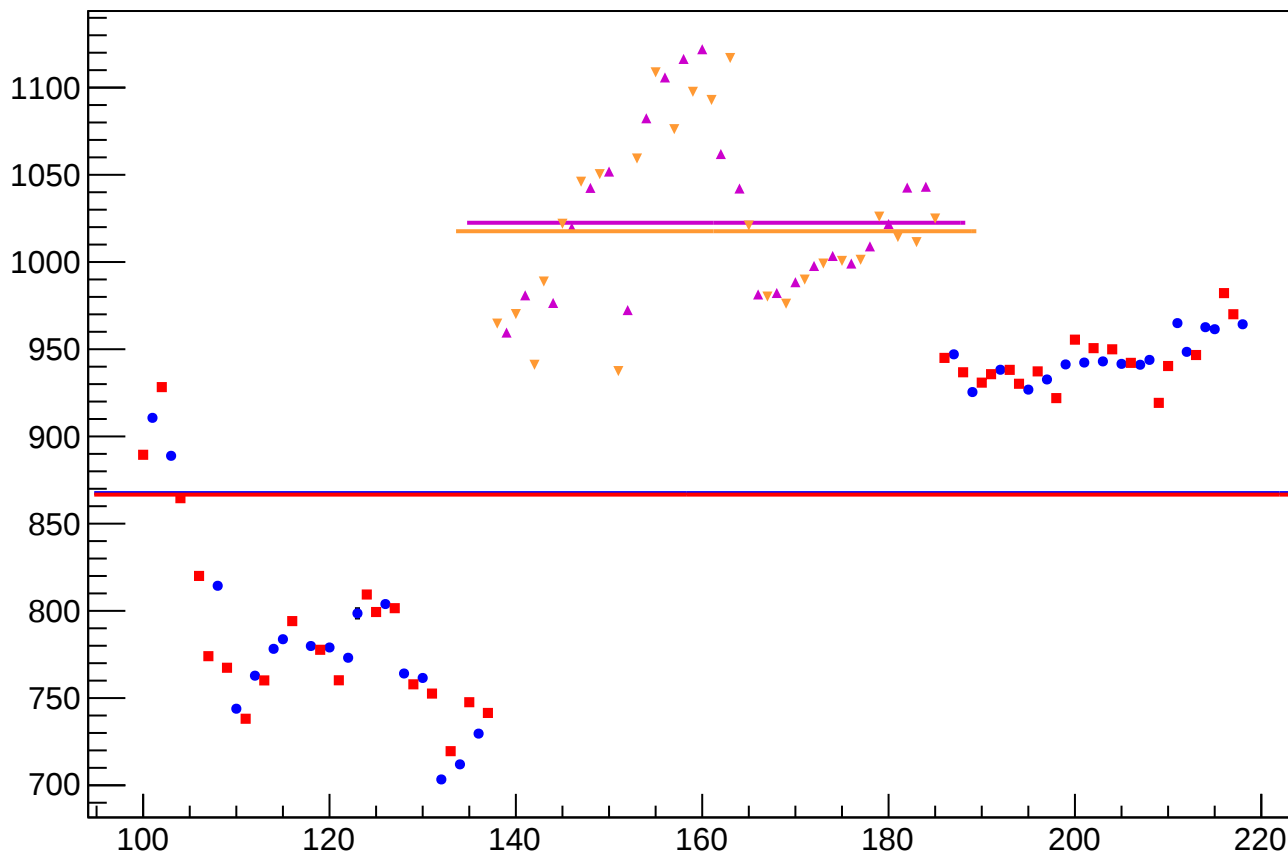
Right: 3.577 $\pm$ 0.143 χ^2 /NDF: 190083.0/68

In: 16.771 $\pm$ 0.157 χ^2 /NDF:44494.3/55

Out: -4.567 $\pm$ 0.153 χ^2 /NDF:165258.6/60

All: 5.849 $\pm$ 0.110 χ^2 /NDF: 219205.1/116

diff_bpm1i04X_rms vs Slug, Sign Corrected



Right In: 867.512 $\pm$ 0.144 χ^2/NDF : 409284.3/32

Left Out: 1017.653 $\pm$ 0.168 χ^2/NDF :83612.5/24

Right Out: 866.652 $\pm$ 0.142 χ^2/NDF : 387094.2/35

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

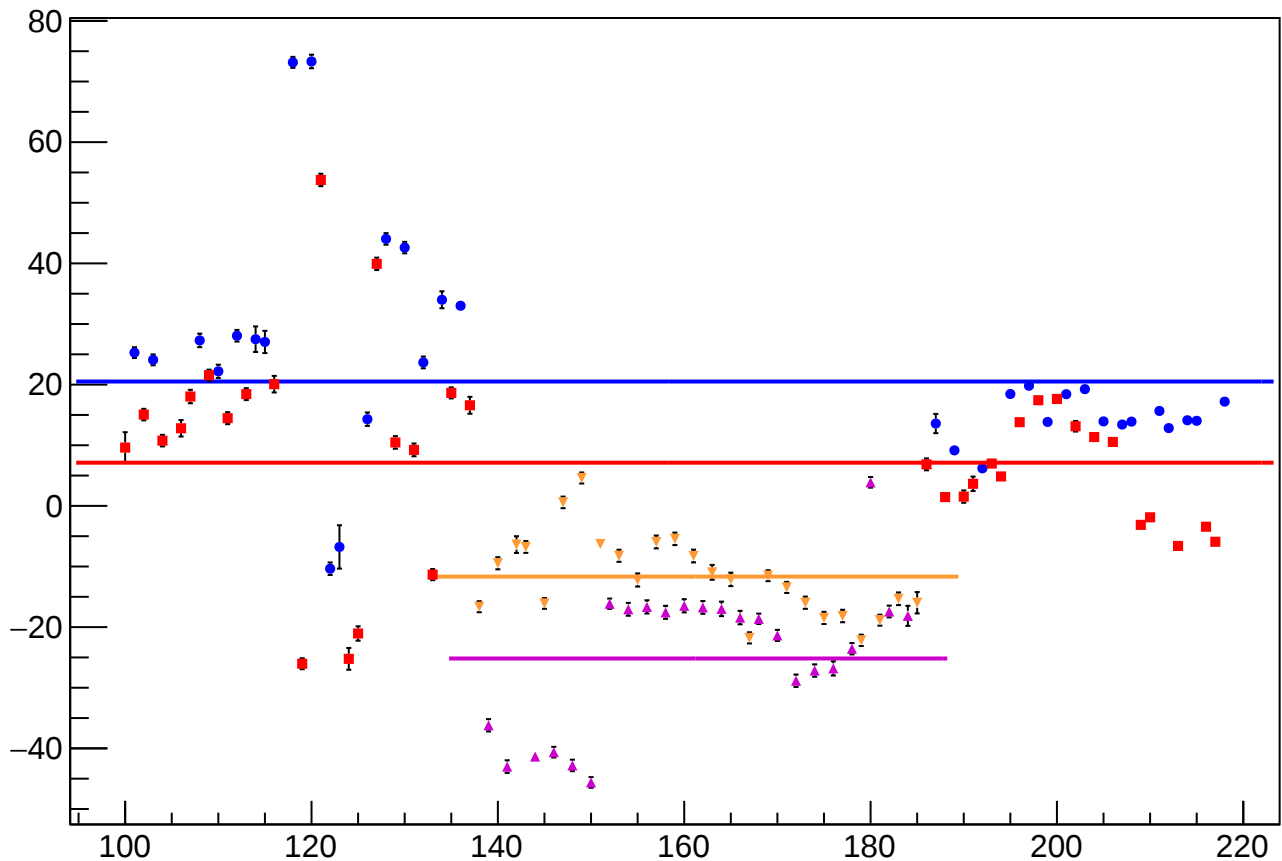
Right: 867.075 $\pm$ 0.101 χ^2/NDF : 796396.6/68

In: 930.756 $\pm$ 0.111 χ^2/NDF :949597.7/55

Out: 929.656 $\pm$ 0.108 χ^2/NDF :942247.3/60

All: 930.193 $\pm$ 0.078 χ^2/NDF : 1891895.2/116

diff_bpm1i04Y_mean vs Slug, Sign Corrected



Right In: 20.515 $\pm$ 0.144 χ^2/NDF : 9848.7/32

Left Out: -11.664 $\pm$ 0.200 χ^2/NDF : 1147.4/24

Right Out: 7.125 $\pm$ 0.141 χ^2/NDF : 9000.2/35

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

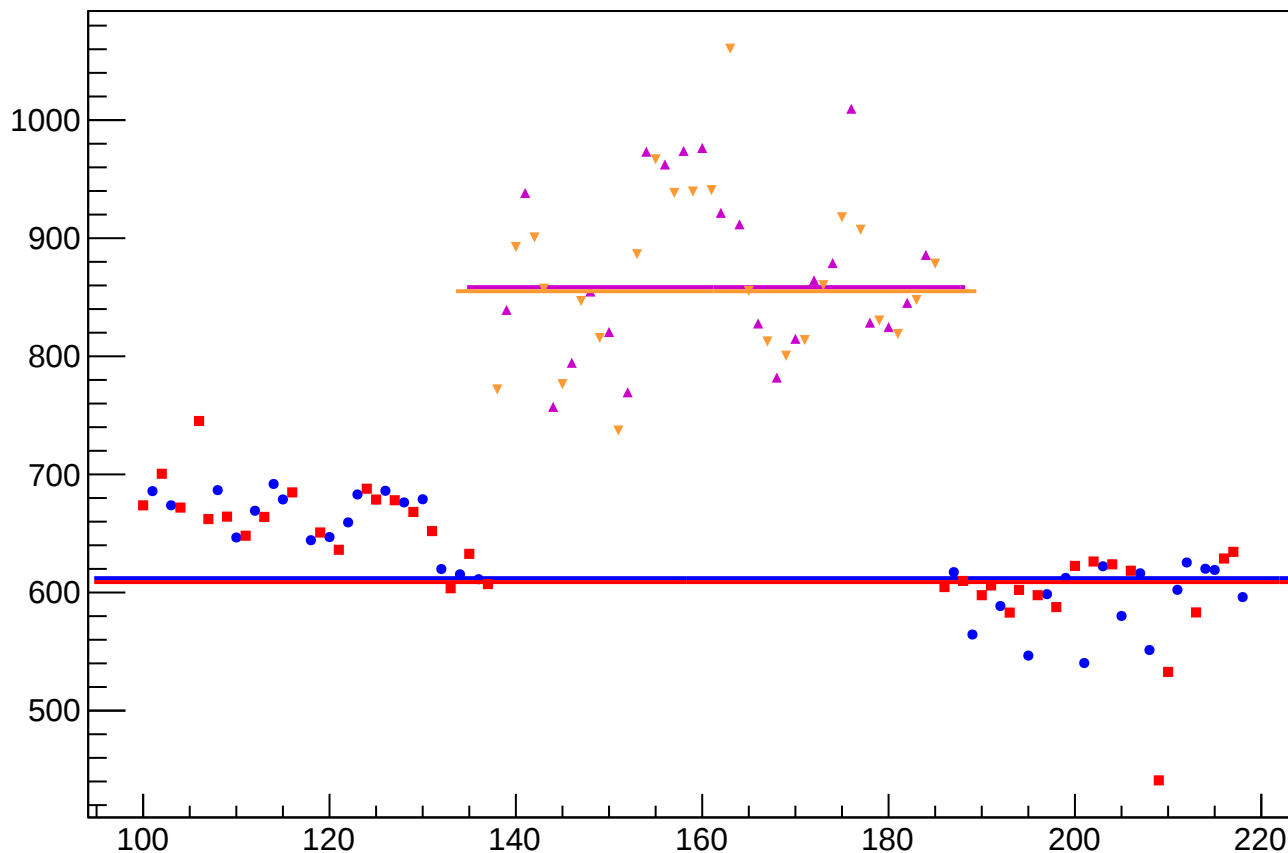
Right: 13.695 $\pm$ 0.101 χ^2/NDF : 23255.8/68

In: 5.658 $\pm$ 0.118 χ^2/NDF : 46352.6/55

Out: 0.882 $\pm$ 0.115 χ^2/NDF : 16024.0/60

All: 3.213 $\pm$ 0.083 χ^2/NDF : 63211.8/116

diff_bpm1i04Y_rms vs Slug, Sign Corrected



Right In: 612.157+/-0.102 χ^2/NDF : 166522.2/32

Left Out: 855.131+/-0.142 χ^2/NDF : 233746.7/24

Right Out: 608.829+/-0.100 χ^2/NDF : 366282.9/35

Left In: 858.563+/-0.147 χ^2/NDF : 239019.8/22

Left: 856.788+/-0.102 χ^2/NDF : 473049.9/47

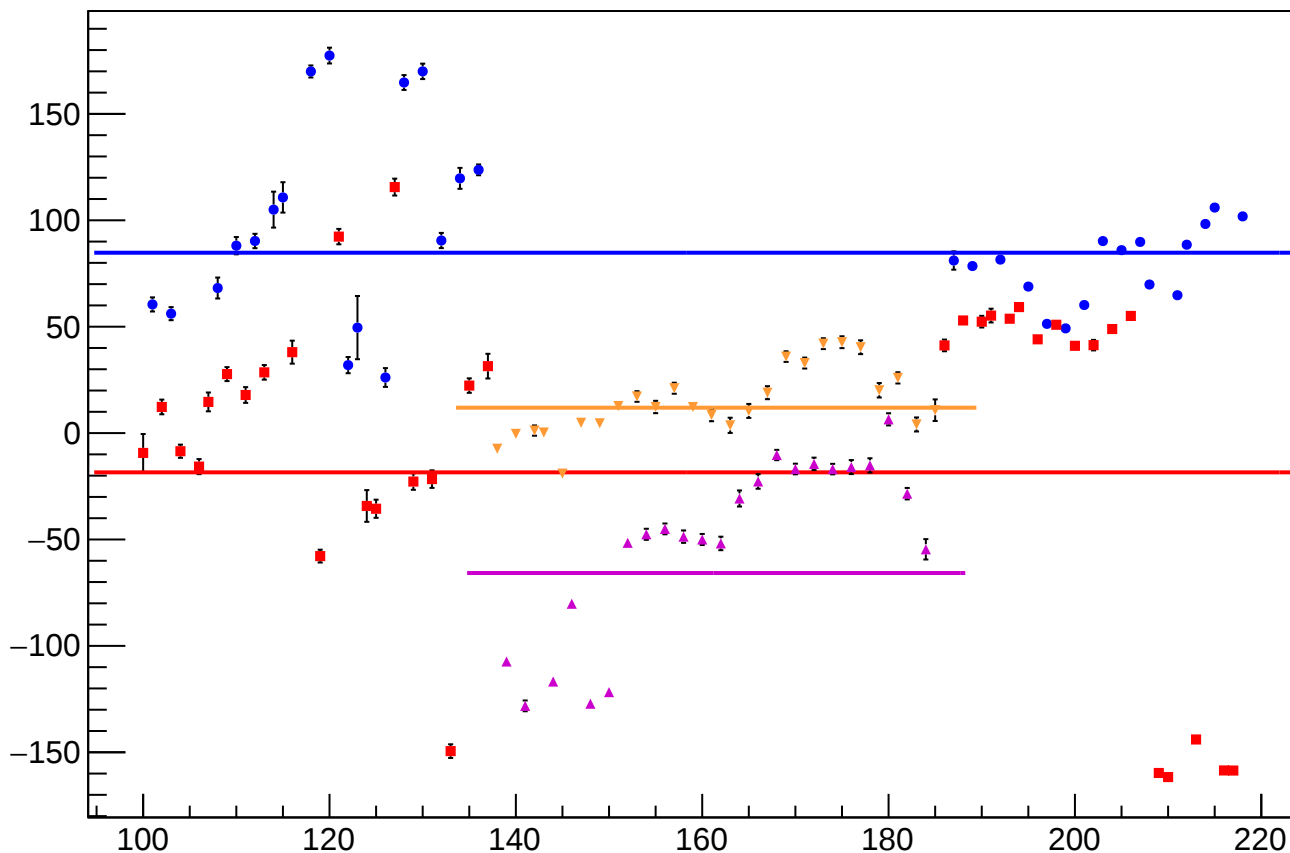
Right: 610.462+/-0.071 χ^2/NDF : 533349.7/68

In: 692.283+/-0.084 χ^2/NDF : 2311060.0/55

Out: 690.670+/-0.082 χ^2/NDF : 2619662.4/60

All: 691.457+/-0.058 χ^2/NDF : 4930913.0/116

diff_bpm1i06X_mean vs Slug, Sign Corrected



Right In: 84.766 ± 0.431 $\chi^2/\text{NDF}: 4804.0/32$

Left Out: 11.938 ± 0.505 $\chi^2/\text{NDF}: 976.6/24$

Right Out: -18.451 ± 0.419 $\chi^2/\text{NDF}: 48593.6/35$

Left In: -65.752 ± 0.518 $\chi^2/\text{NDF}: 7335.8/22$

Left: -25.968 ± 0.362 $\chi^2/\text{NDF}: 19845.5/47$

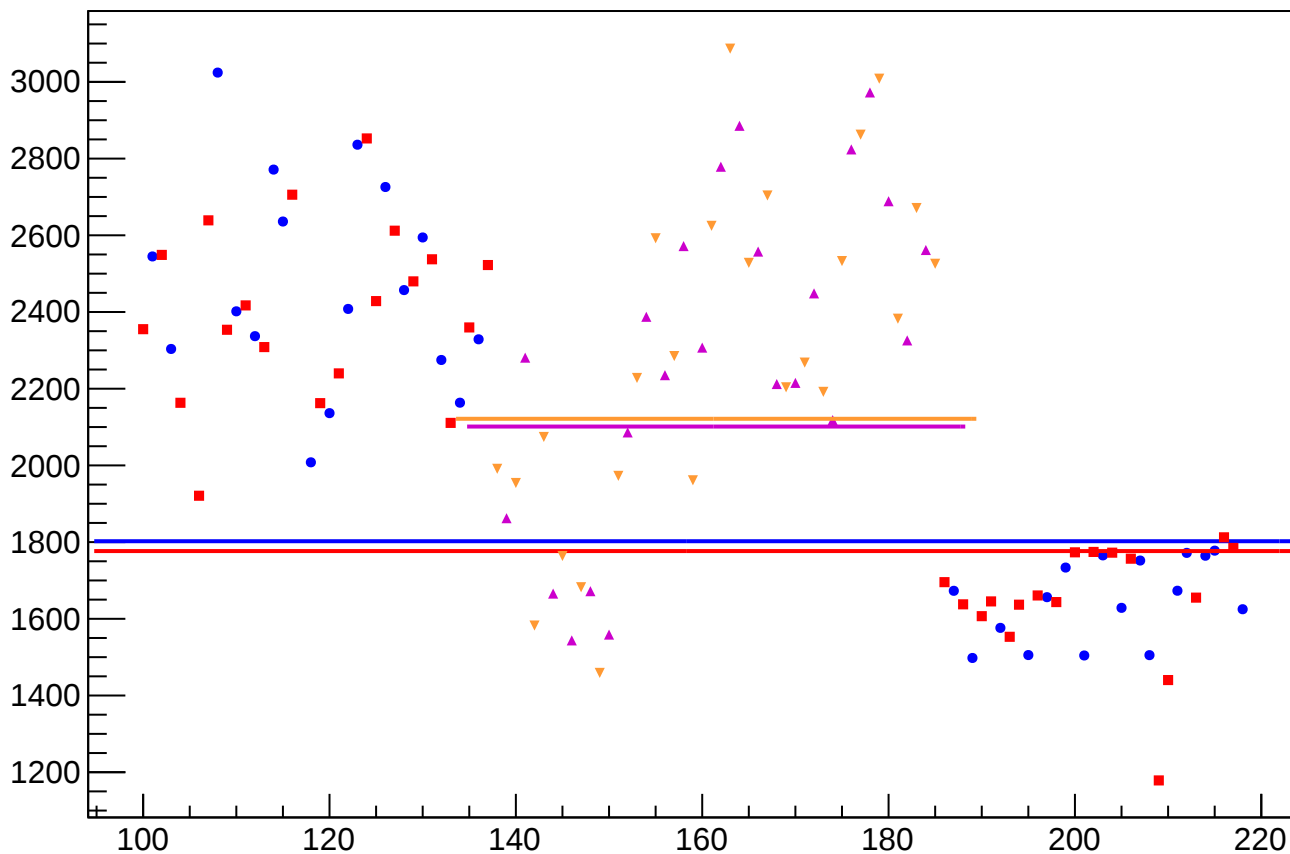
Right: 31.748 ± 0.301 $\chi^2/\text{NDF}: 82870.2/68$

In: 23.163 ± 0.331 $\chi^2/\text{NDF}: 62078.4/55$

Out: -6.060 ± 0.323 $\chi^2/\text{NDF}: 51712.2/60$

All: 8.171 ± 0.231 $\chi^2/\text{NDF}: 117784.8/116$

diff_bpm1i06X_rms vs Slug, Sign Corrected



Right In: 1802.304 ± 0.305

χ^2/NDF : 1202526.8/32

Left: 2111.691 ± 0.256 χ^2/NDF : 2749931.8/47

Right: 1789.116 ± 0.212 χ^2/NDF : 2684178.2/68

Left Out: 2121.567 ± 0.357

χ^2/NDF : 1387847.6/24

In: 1924.685 ± 0.234 χ^2/NDF : 2957227.7/55

Right Out: 1776.630 ± 0.296

χ^2/NDF : 1478004.4/35

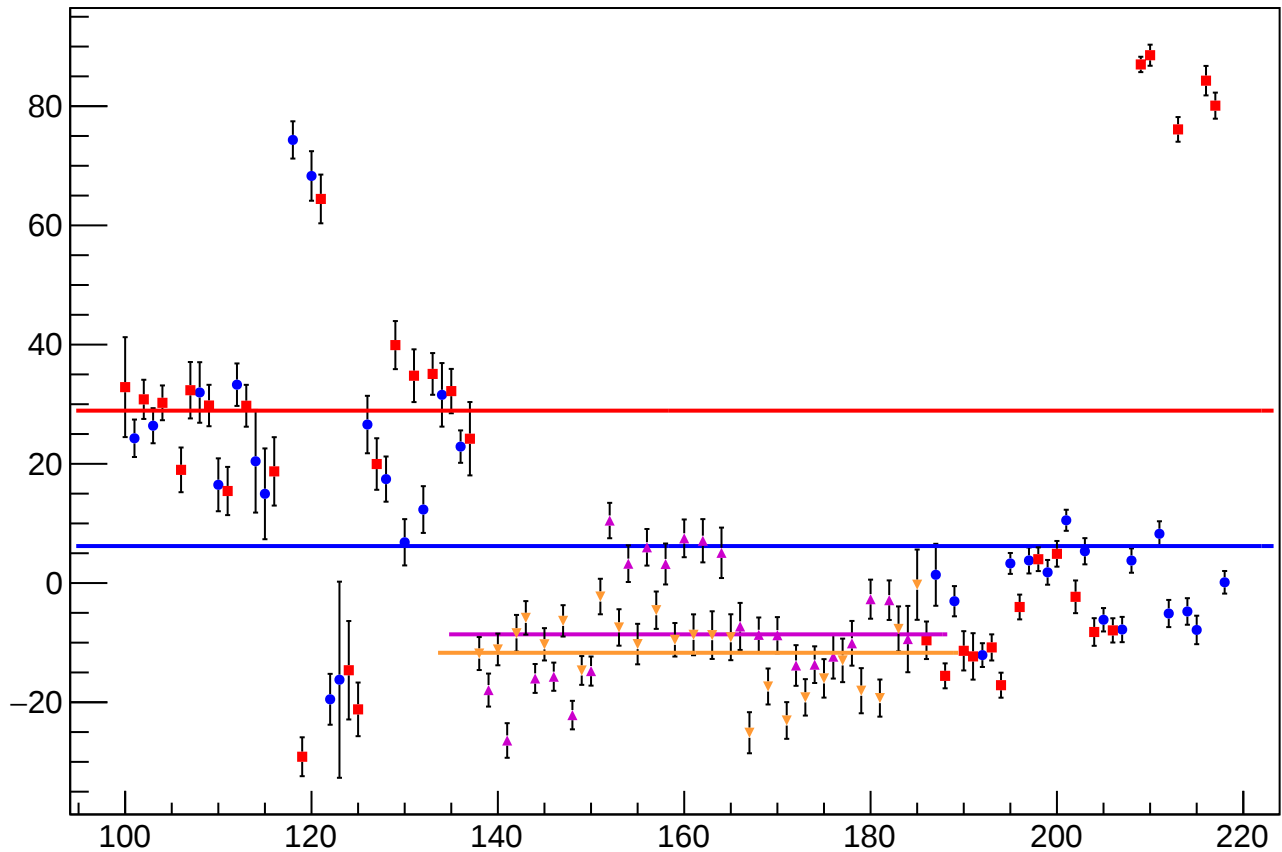
Out: 1917.281 ± 0.228 χ^2/NDF : 3417776.5/60

Left In: 2101.325 ± 0.366

χ^2/NDF : 1360518.3/22

All: 1920.886 ± 0.163 χ^2/NDF : 6375517.0/11

diff_bpm1i06Y_mean vs Slug, Sign Corrected



Right In: 6.205 ± 0.467 $\chi^2/\text{NDF}: 1291.3/32$

Left Out: -11.700 ± 0.625 $\chi^2/\text{NDF}: 85.0/24$

Right Out: 28.922 ± 0.453 $\chi^2/\text{NDF}: 8240.6/35$

Left In: -8.606 ± 0.642 $\chi^2/\text{NDF}: 264.2/22$

Left: -10.193 ± 0.448 $\chi^2/\text{NDF}: 361.1/47$

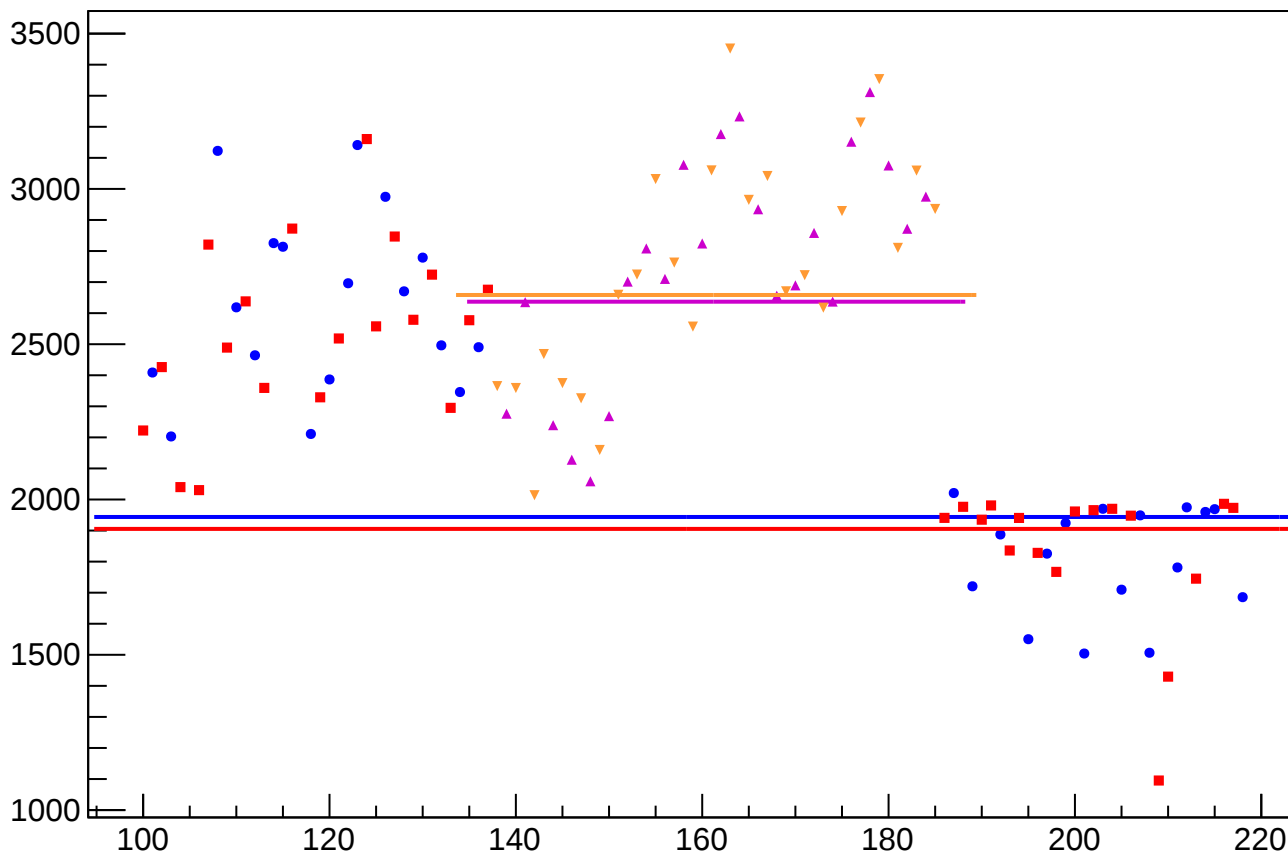
Right: 17.909 ± 0.325 $\chi^2/\text{NDF}: 10750.5/68$

In: 1.077 ± 0.378 $\chi^2/\text{NDF}: 1903.6/55$

Out: 14.940 ± 0.367 $\chi^2/\text{NDF}: 11092.0/60$

All: 8.209 ± 0.263 $\chi^2/\text{NDF}: 13688.7/116$

diff_bpm1i06Y_rms vs Slug, Sign Corrected



Right In: 1943.745 $\pm$ 0.330 χ^2 /NDF: 1220659.7/32

Left Out: 2658.486 $\pm$ 0.442 χ^2 /NDF: 618133.8/24

Right Out: 1905.352 $\pm$ 0.320 χ^2 /NDF: 1828245.8/35

Left In: 2636.885 $\pm$ 0.454 χ^2 /NDF: 652894.5/22

Left: 2647.967 $\pm$ 0.317 χ^2 /NDF: 1272190.1/47

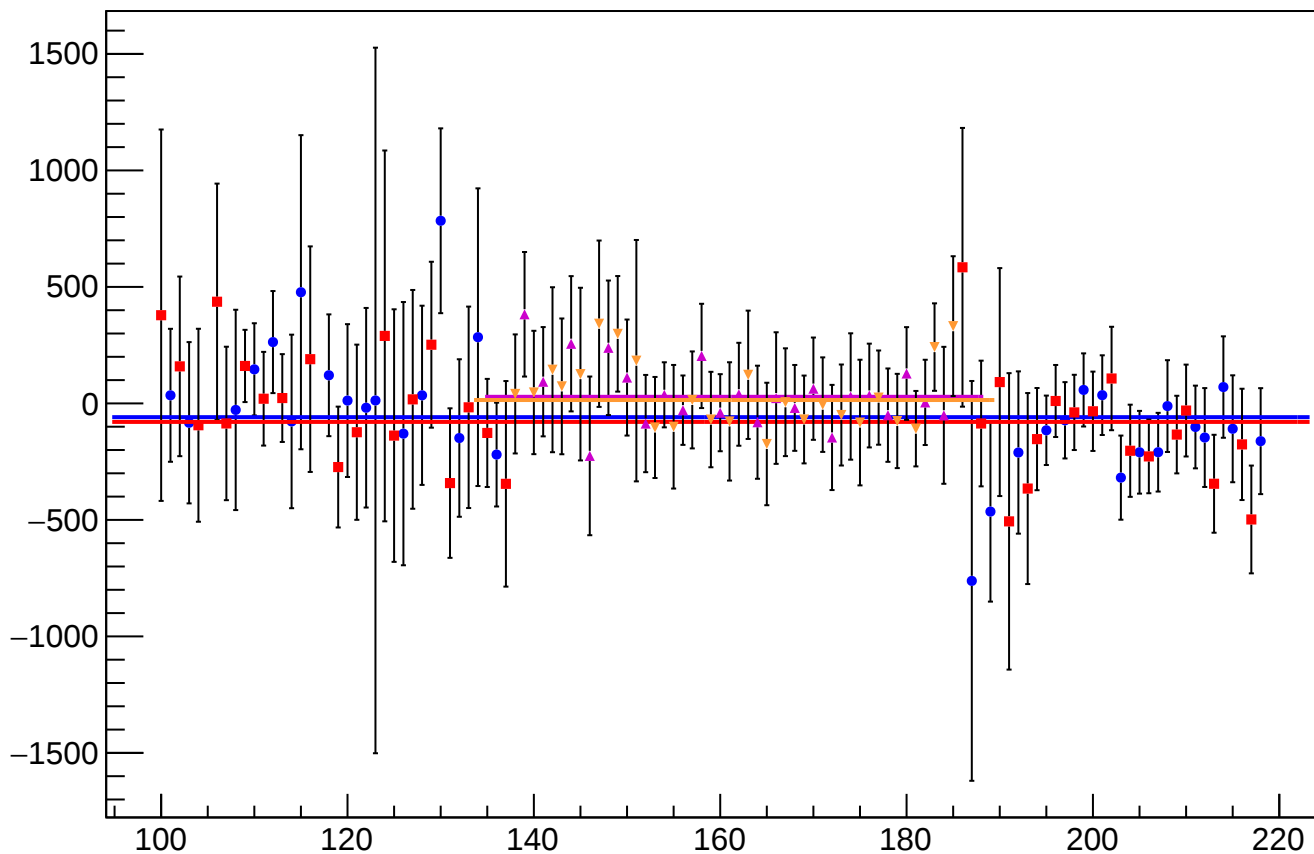
Right: 1923.965 $\pm$ 0.230 χ^2 /NDF: 3055866.5/68

In: 2183.709 $\pm$ 0.267 χ^2 /NDF: 3398120.4/55

Out: 2164.576 $\pm$ 0.259 χ^2 /NDF: 4348218.7/60

All: 2173.866 $\pm$ 0.186 χ^2 /NDF: 7748979.4/117

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -59.019 ± 41.913 $\chi^2/\text{NDF}: 17.4/32$

Left Out: 14.520 ± 47.528 $\chi^2/\text{NDF}: 7.8/24$

Right Out: -79.422 ± 41.694 $\chi^2/\text{NDF}: 17.9/35$

Left In: 28.310 ± 44.638 $\chi^2/\text{NDF}: 6.3/22$

Left: 21.847 ± 32.538 $\chi^2/\text{NDF}: 14.1/47$

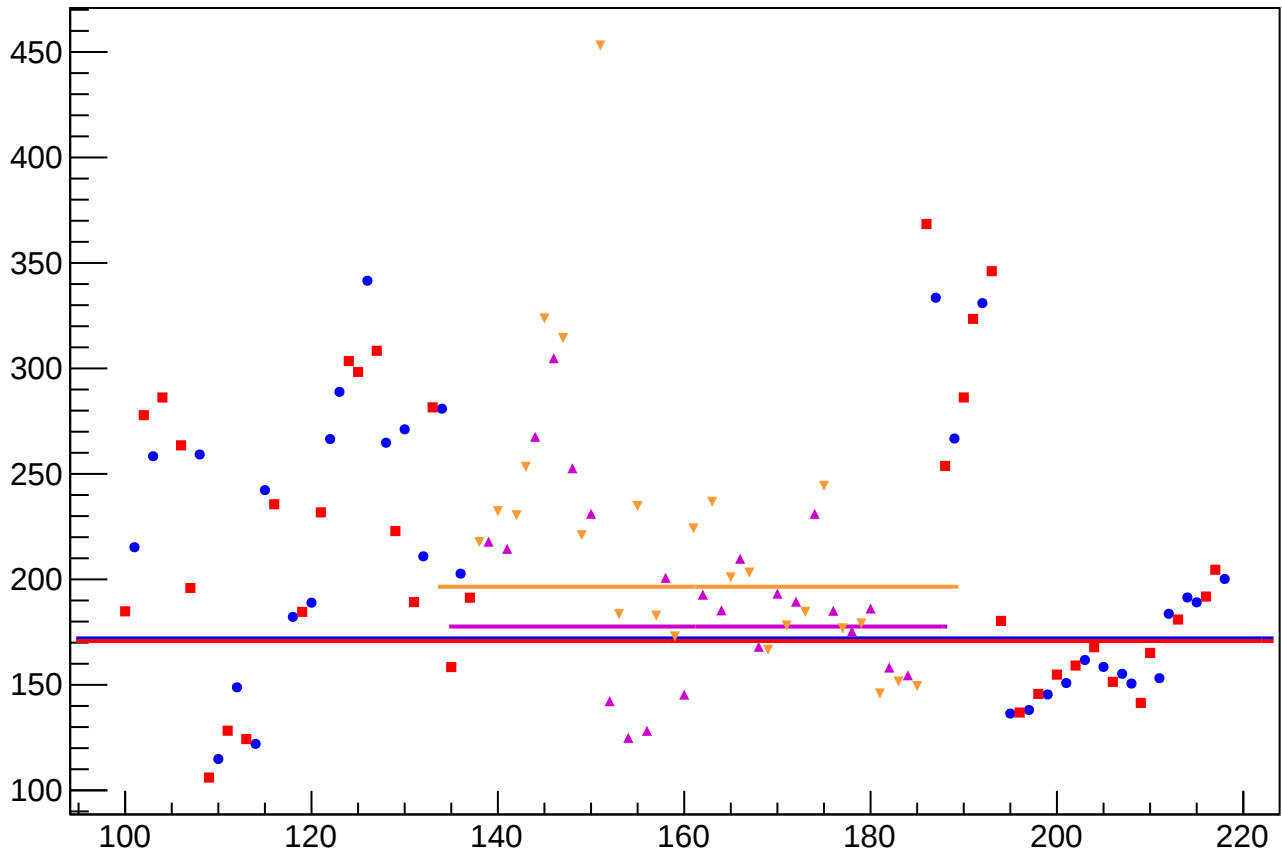
Right: -69.274 ± 29.559 $\chi^2/\text{NDF}: 35.4/68$

In: -18.102 ± 30.555 $\chi^2/\text{NDF}: 25.7/55$

Out: -38.568 ± 31.343 $\chi^2/\text{NDF}: 27.8/60$

All: -28.075 ± 21.879 $\chi^2/\text{NDF}: 53.8/116$

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 172.040 $\pm$ 0.030 χ^2 /NDF: 2205085.5/32

Left Out: 196.514 $\pm$ 0.034 χ^2 /NDF:1789504.4/24

Right Out: 170.787 $\pm$ 0.029 χ^2 /NDF: 2900446.4/35

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

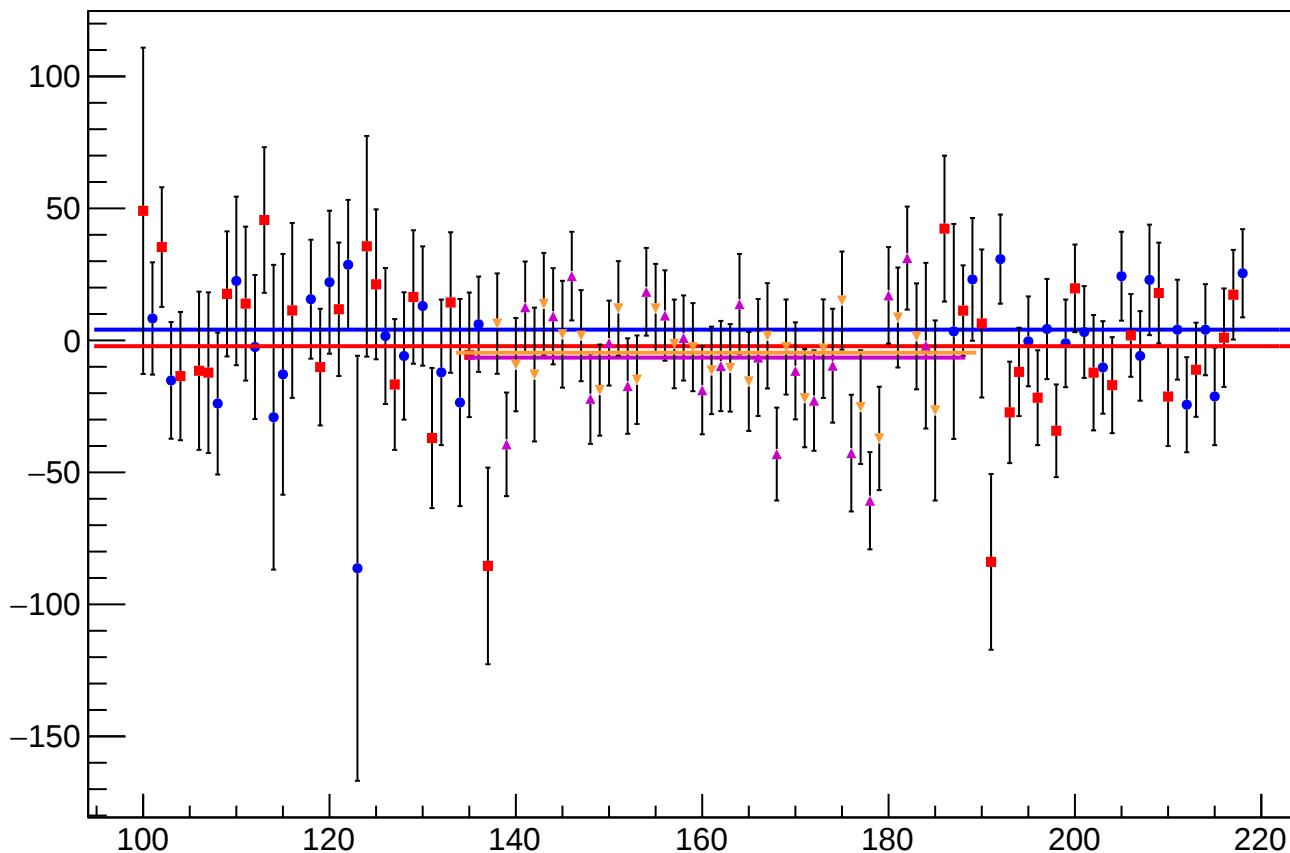
Right: 171.410 $\pm$ 0.021 χ^2 /NDF: 5106430.7/68

In: 174.666 $\pm$ 0.022 χ^2 /NDF:3852495.3/55

Out: 181.975 $\pm$ 0.022 χ^2 /NDF:5021115.5/60

All: 178.227 $\pm$ 0.015 χ^2 /NDF: 8929385.3/116

asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 4.074 ± 3.739 $\chi^2/\text{NDF}: 19.5/32$

Left Out: -4.646 ± 3.728 $\chi^2/\text{NDF}: 12.1/24$

Right Out: -2.193 ± 3.711 $\chi^2/\text{NDF}: 40.3/35$

Left In: -6.526 ± 3.828 $\chi^2/\text{NDF}: 36.4/22$

Left: -5.561 ± 2.670 $\chi^2/\text{NDF}: 48.6/47$

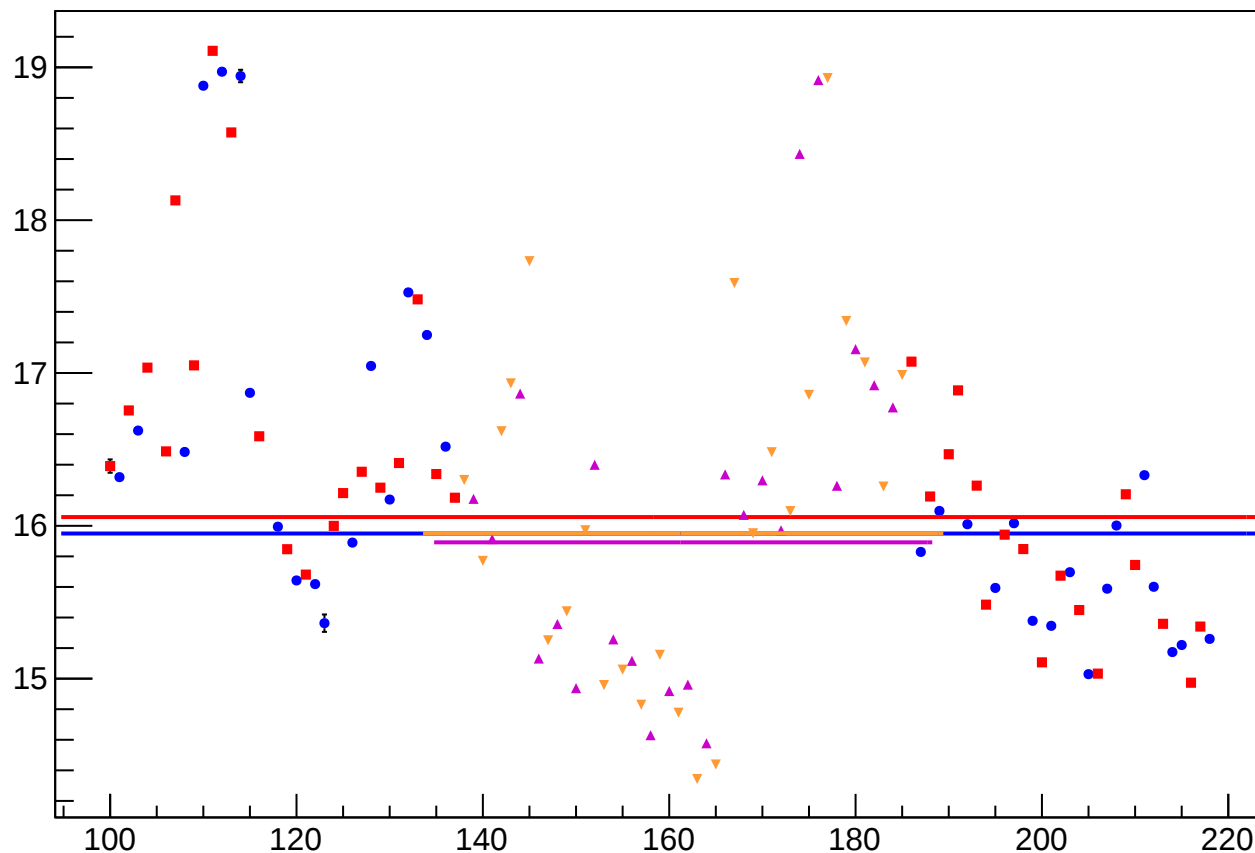
Right: 0.917 ± 2.634 $\chi^2/\text{NDF}: 61.2/68$

In: -1.102 ± 2.675 $\chi^2/\text{NDF}: 59.8/55$

Out: -3.414 ± 2.630 $\chi^2/\text{NDF}: 52.5/60$

All: -2.277 ± 1.875 $\chi^2/\text{NDF}: 112.8/116$

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 15.950 $\pm$ 0.003 χ^2 /NDF: 91875.3/32

Left Out: 15.951 $\pm$ 0.003 χ^2 /NDF:173458.5/24

Right Out: 16.057 $\pm$ 0.003 χ^2 /NDF: 104382.4/35

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

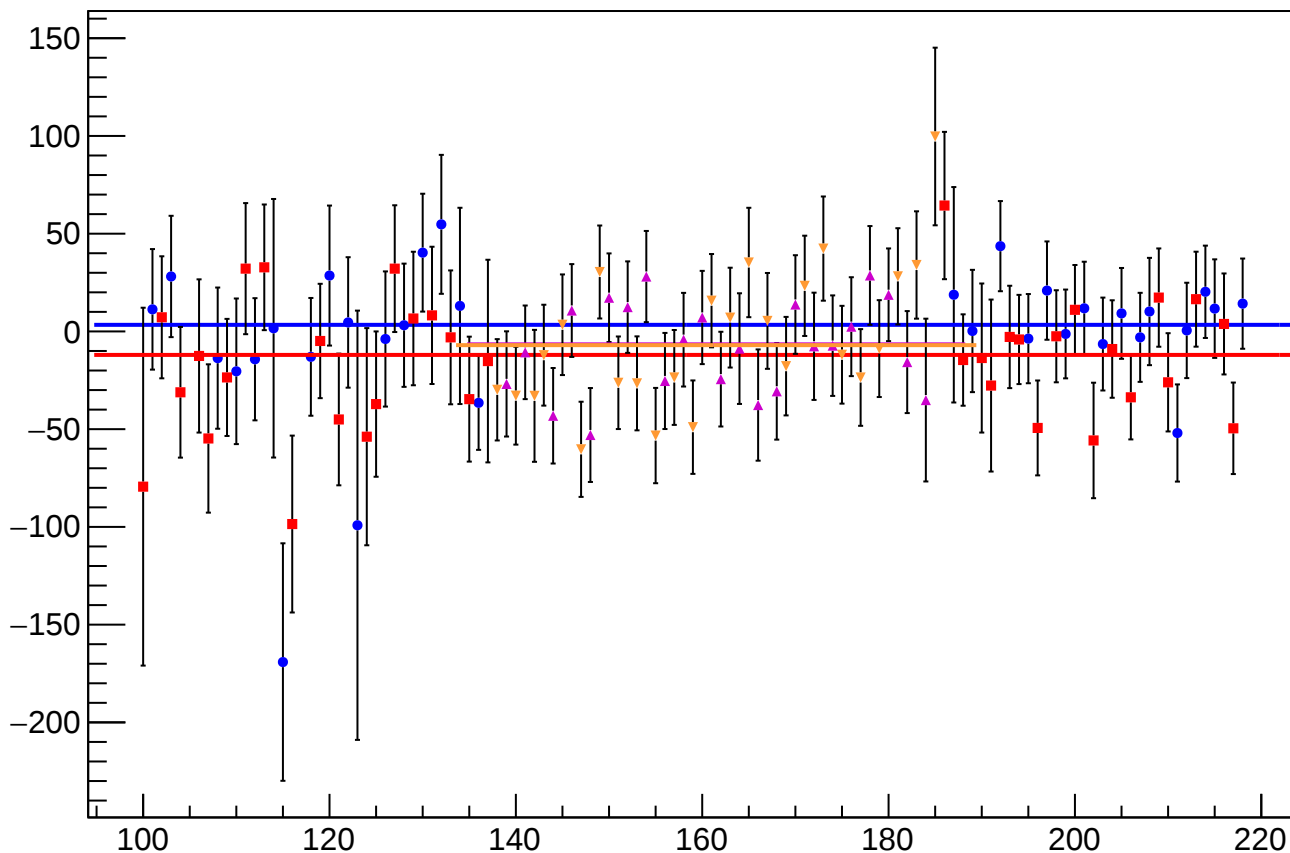
Right: 16.004 $\pm$ 0.002 χ^2 /NDF: 197092.7/68

In: 15.921 $\pm$ 0.002 χ^2 /NDF:239201.9/55

Out: 16.004 $\pm$ 0.002 χ^2 /NDF:278662.1/60

All: 15.964 $\pm$ 0.001 χ^2 /NDF: 518838.9/116

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 3.369 ± 5.020 $\chi^2/\text{NDF}: 27.9/32$

Left Out: -7.017 ± 5.121 $\chi^2/\text{NDF}: 37.4/24$

Right Out: -12.015 ± 4.976 $\chi^2/\text{NDF}: 32.4/35$

Left In: -6.611 ± 5.251 $\chi^2/\text{NDF}: 19.1/22$

Left: -6.820 ± 3.666 $\chi^2/\text{NDF}: 56.6/47$

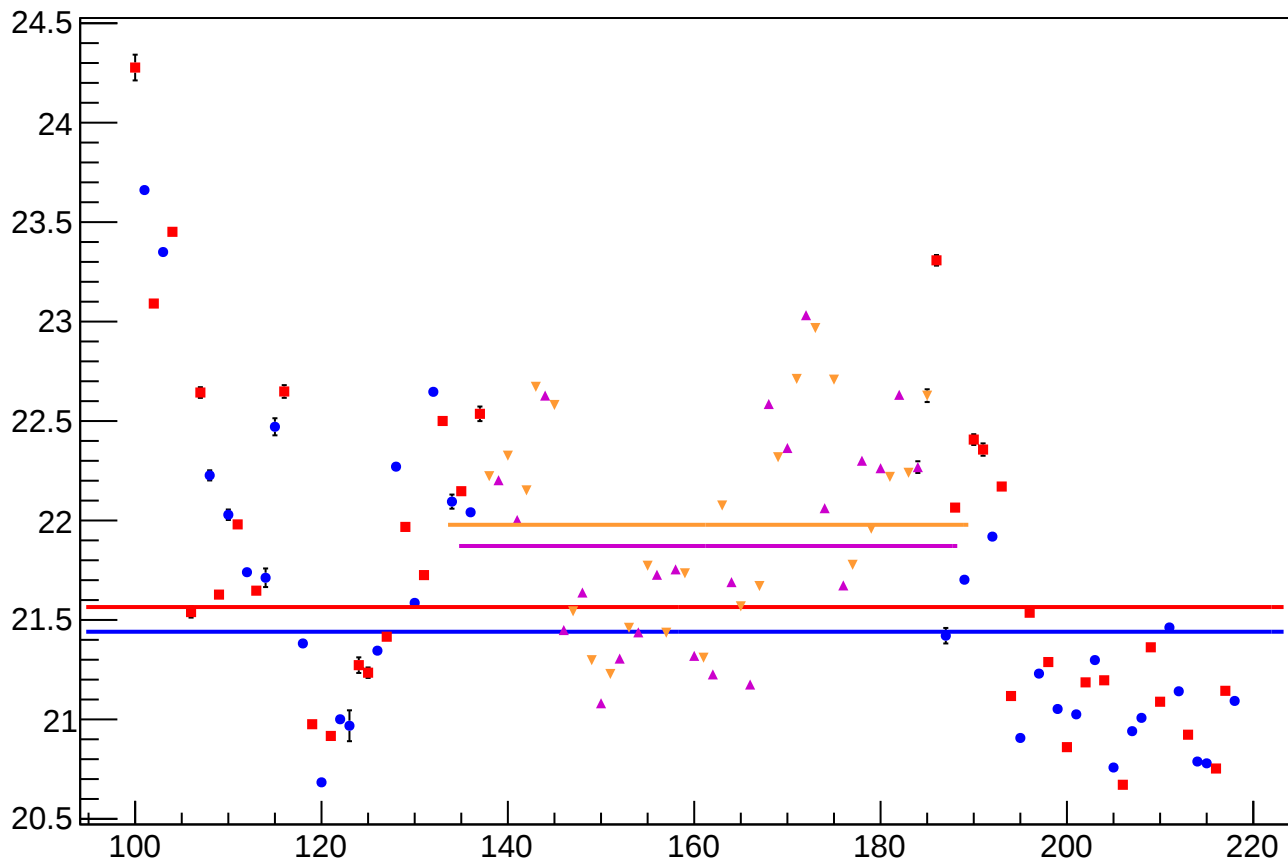
Right: -4.391 ± 3.534 $\chi^2/\text{NDF}: 65.0/68$

In: -1.397 ± 3.629 $\chi^2/\text{NDF}: 48.9/55$

Out: -9.588 ± 3.569 $\chi^2/\text{NDF}: 70.3/60$

All: -5.561 ± 2.544 $\chi^2/\text{NDF}: 121.8/116$

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 21.441 $\pm$ 0.004 χ^2 /NDF: 37150.6/32

Left Out: 21.978 $\pm$ 0.004 χ^2 /NDF:19430.2/24

Right Out: 21.565 $\pm$ 0.004 χ^2 /NDF: 40882.4/35

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

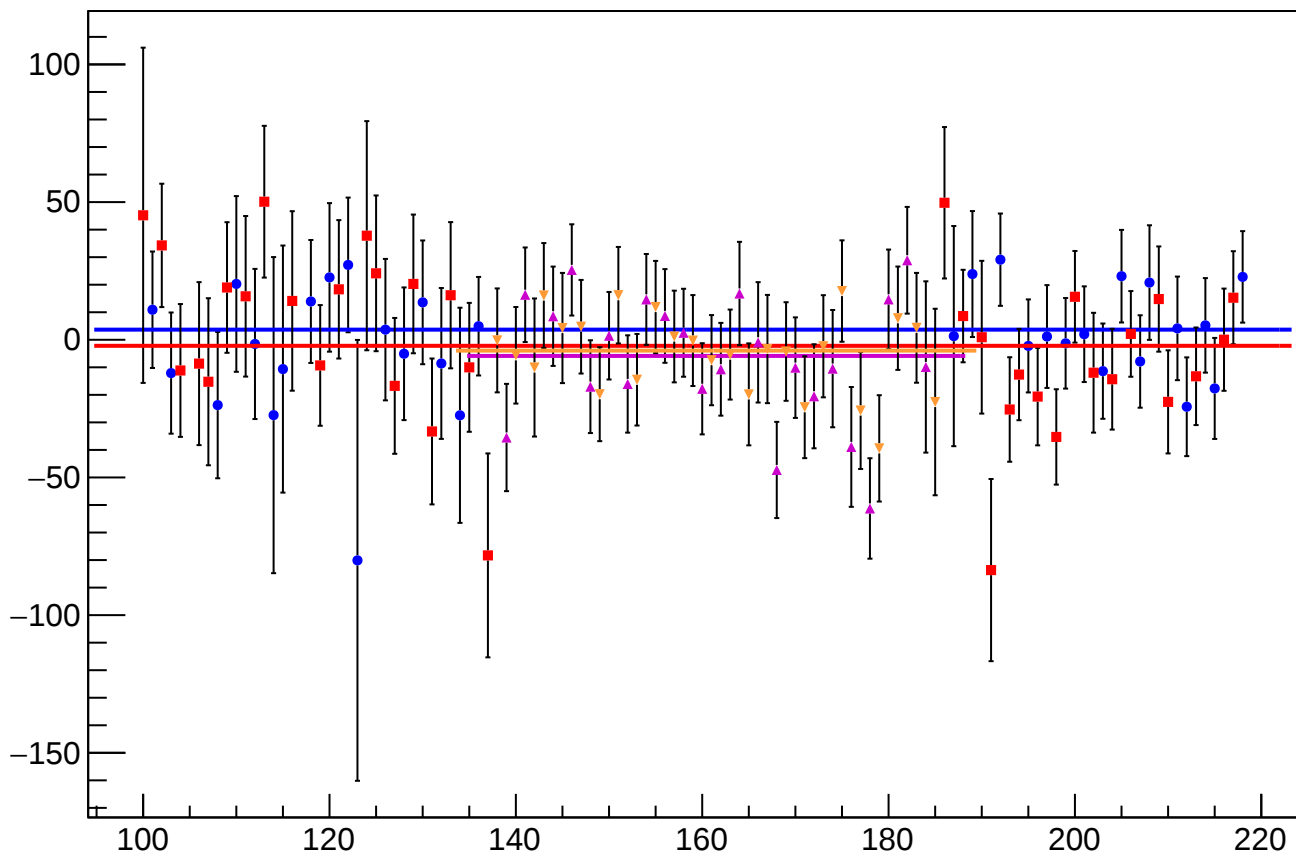
Right: 21.503 $\pm$ 0.002 χ^2 /NDF: 78650.0/68

In: 21.647 $\pm$ 0.003 χ^2 /NDF:64717.8/55

Out: 21.766 $\pm$ 0.003 χ^2 /NDF:67021.0/60

All: 21.707 $\pm$ 0.002 χ^2 /NDF: 132834.5/116

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 3.684 ± 3.713 $\chi^2/\text{NDF}: 18.0/32$

Left Out: -3.927 ± 3.688 $\chi^2/\text{NDF}: 14.0/24$

Right Out: -2.190 ± 3.687 $\chi^2/\text{NDF}: 40.5/35$

Left In: -5.861 ± 3.787 $\chi^2/\text{NDF}: 36.2/22$

Left: -4.869 ± 2.642 $\chi^2/\text{NDF}: 50.3/47$

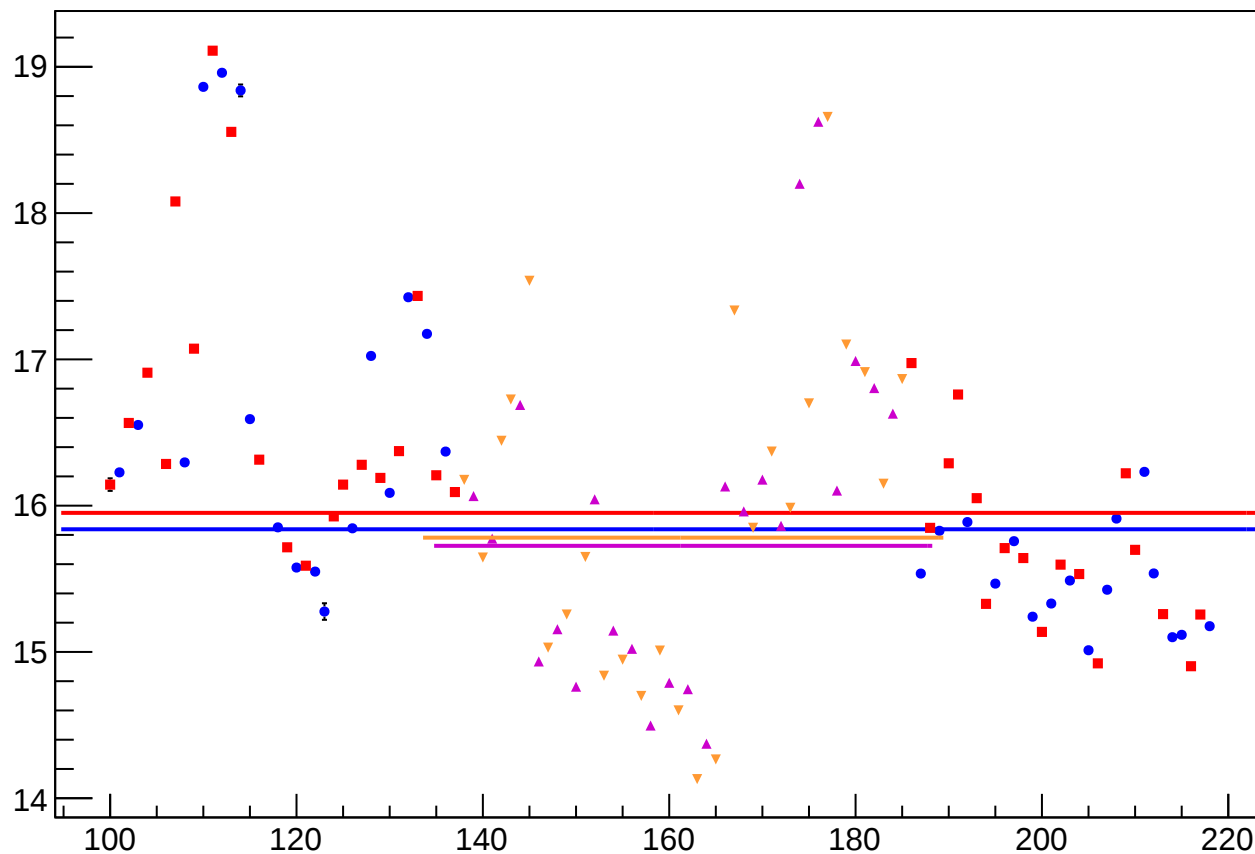
Right: 0.726 ± 2.616 $\chi^2/\text{NDF}: 59.8/68$

In: -0.995 ± 2.651 $\chi^2/\text{NDF}: 57.4/55$

Out: -3.058 ± 2.607 $\chi^2/\text{NDF}: 54.6/60$

All: -2.044 ± 1.859 $\chi^2/\text{NDF}: 112.4/116$

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 15.839 $\pm$ 0.003 χ^2 /NDF: 93819.6/32

Left Out: 15.781 $\pm$ 0.003 χ^2 /NDF:172894.3/24

Right Out: 15.951 $\pm$ 0.003 χ^2 /NDF: 106064.2/35

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

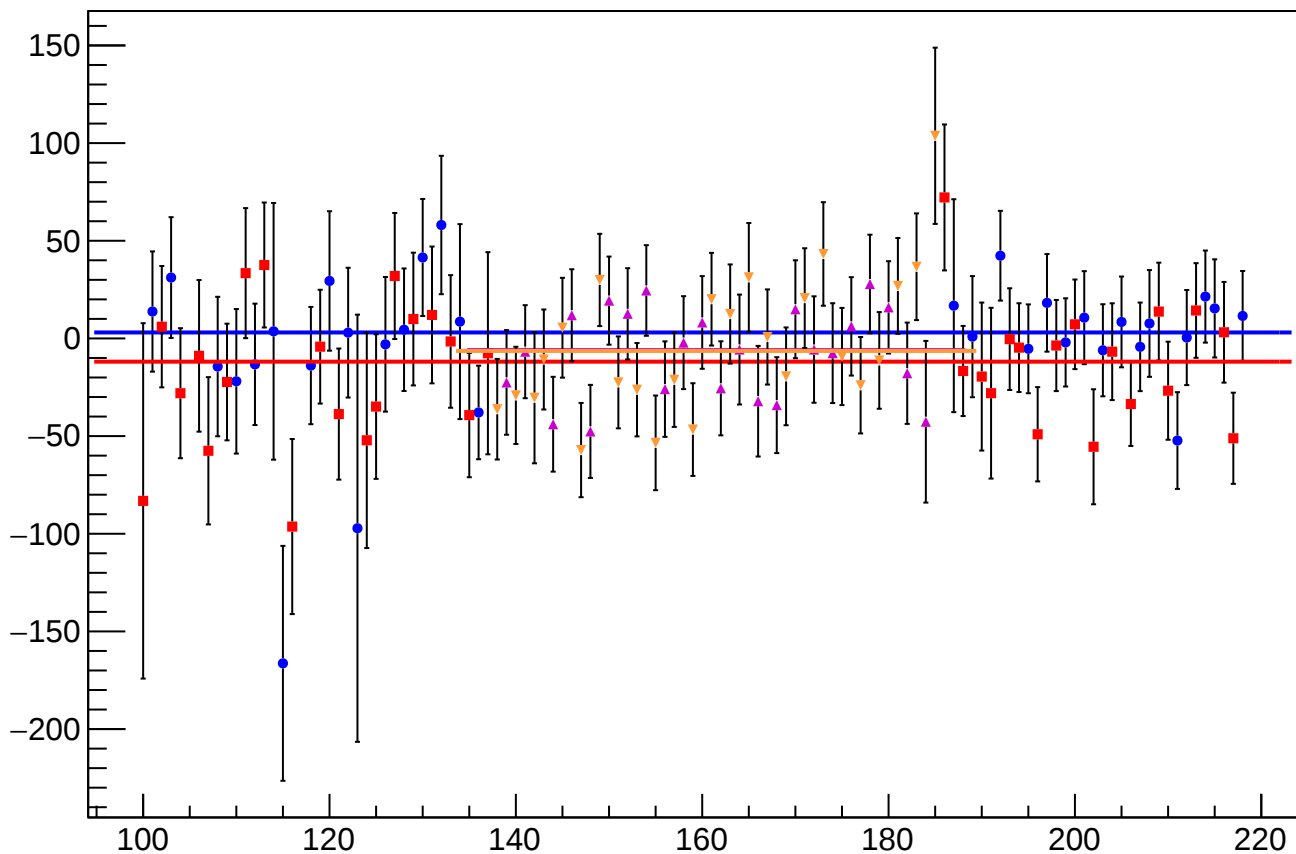
Right: 15.895 $\pm$ 0.002 χ^2 /NDF: 200803.2/68

In: 15.783 $\pm$ 0.002 χ^2 /NDF:240560.7/55

Out: 15.866 $\pm$ 0.002 χ^2 /NDF:281070.1/60

All: 15.825 $\pm$ 0.001 χ^2 /NDF: 522626.3/116

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 3.058 ± 4.999 χ^2/NDF : 28.5/32

Left Out: -6.404 ± 5.091 χ^2/NDF : 37.4/24

Right Out: -11.898 ± 4.952 χ^2/NDF : 33.5/35

Left In: -5.978 ± 5.222 χ^2/NDF : 18.5/22

Left: -6.196 ± 3.646 χ^2/NDF : 55.9/47

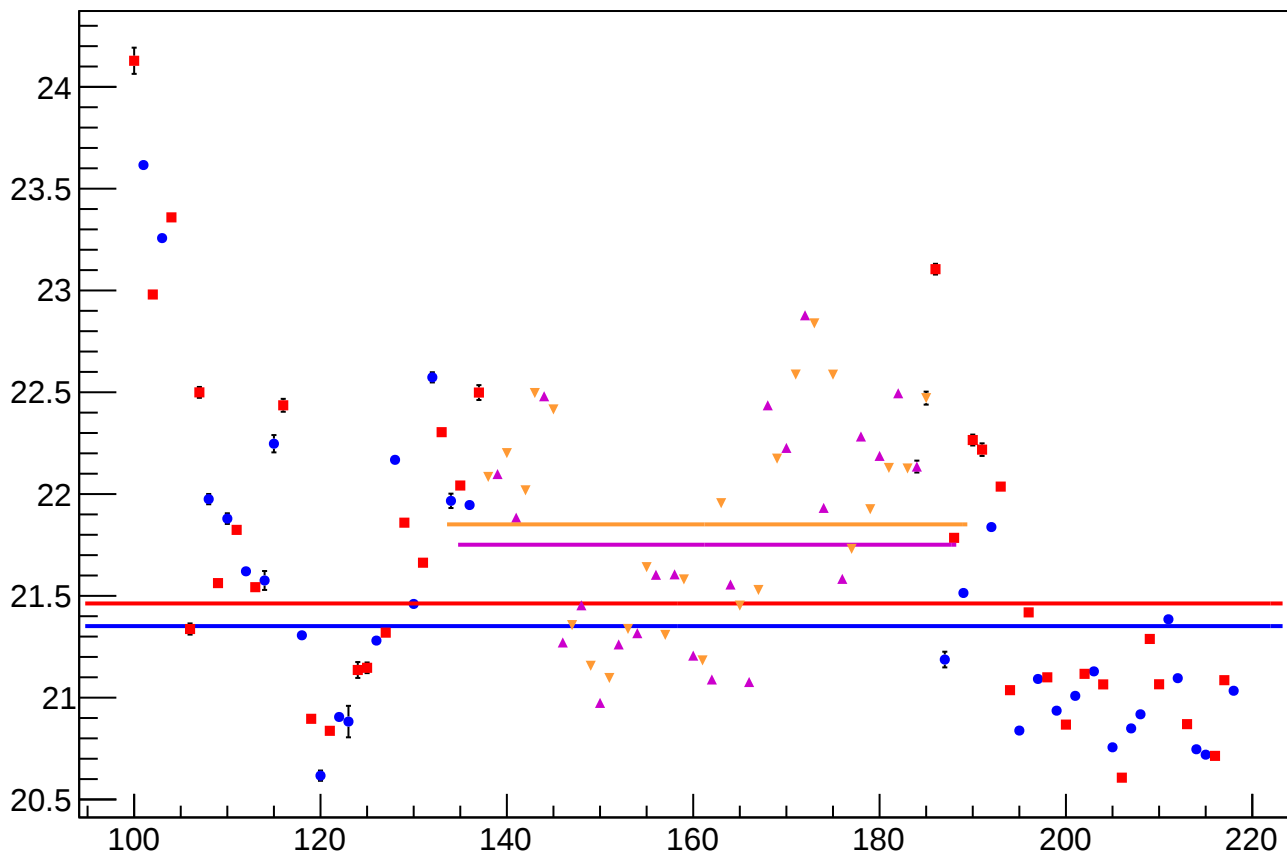
Right: -4.491 ± 3.518 χ^2/NDF : 66.6/68

In: -1.263 ± 3.611 χ^2/NDF : 48.7/55

Out: -9.227 ± 3.550 χ^2/NDF : 71.5/60

All: -5.313 ± 2.532 χ^2/NDF : 122.6/116

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 21.351 ± 0.004 $\chi^2/\text{NDF}: 36077.2/32$

Left Out: 21.851 ± 0.004 $\chi^2/\text{NDF}: 19631.8/24$

Right Out: 21.463 ± 0.004 $\chi^2/\text{NDF}: 37692.8/35$

Left In: 21.751 ± 0.004 $\chi^2/\text{NDF}: 20516.3/22$

Left: 21.802 ± 0.003 $\chi^2/\text{NDF}: 40523.6/47$

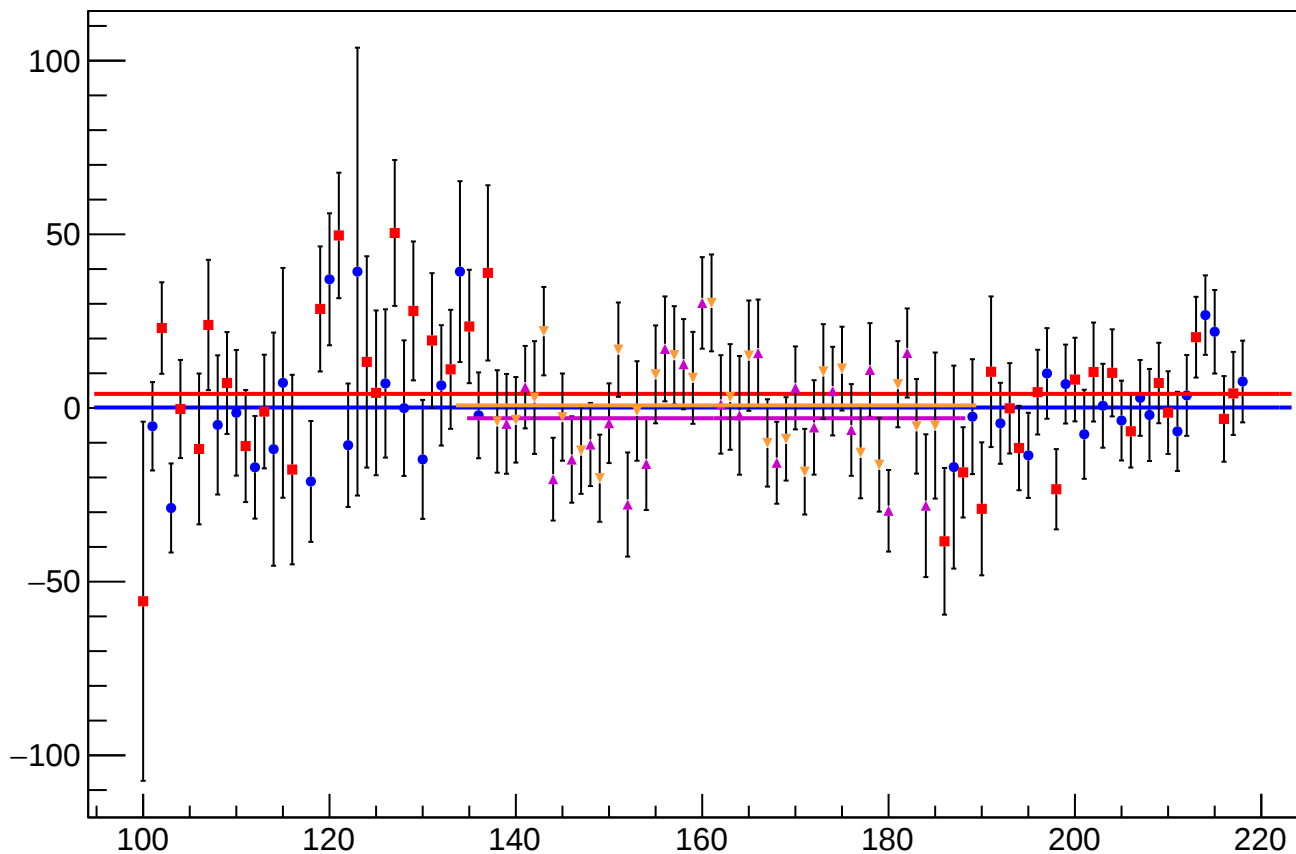
Right: 21.408 ± 0.002 $\chi^2/\text{NDF}: 74269.6/68$

In: 21.543 ± 0.003 $\chi^2/\text{NDF}: 62707.8/55$

Out: 21.652 ± 0.003 $\chi^2/\text{NDF}: 63306.4/60$

All: 21.598 ± 0.002 $\chi^2/\text{NDF}: 126939.5/116$

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 0.143 ± 2.523 $\chi^2/\text{NDF}: 29.0/32$

Left Out: 0.759 ± 2.698 $\chi^2/\text{NDF}: 23.8/24$

Right Out: 4.068 ± 2.519 $\chi^2/\text{NDF}: 47.2/35$

Left In: -2.944 ± 2.757 $\chi^2/\text{NDF}: 30.9/22$

Left: -1.053 ± 1.929 $\chi^2/\text{NDF}: 55.7/47$

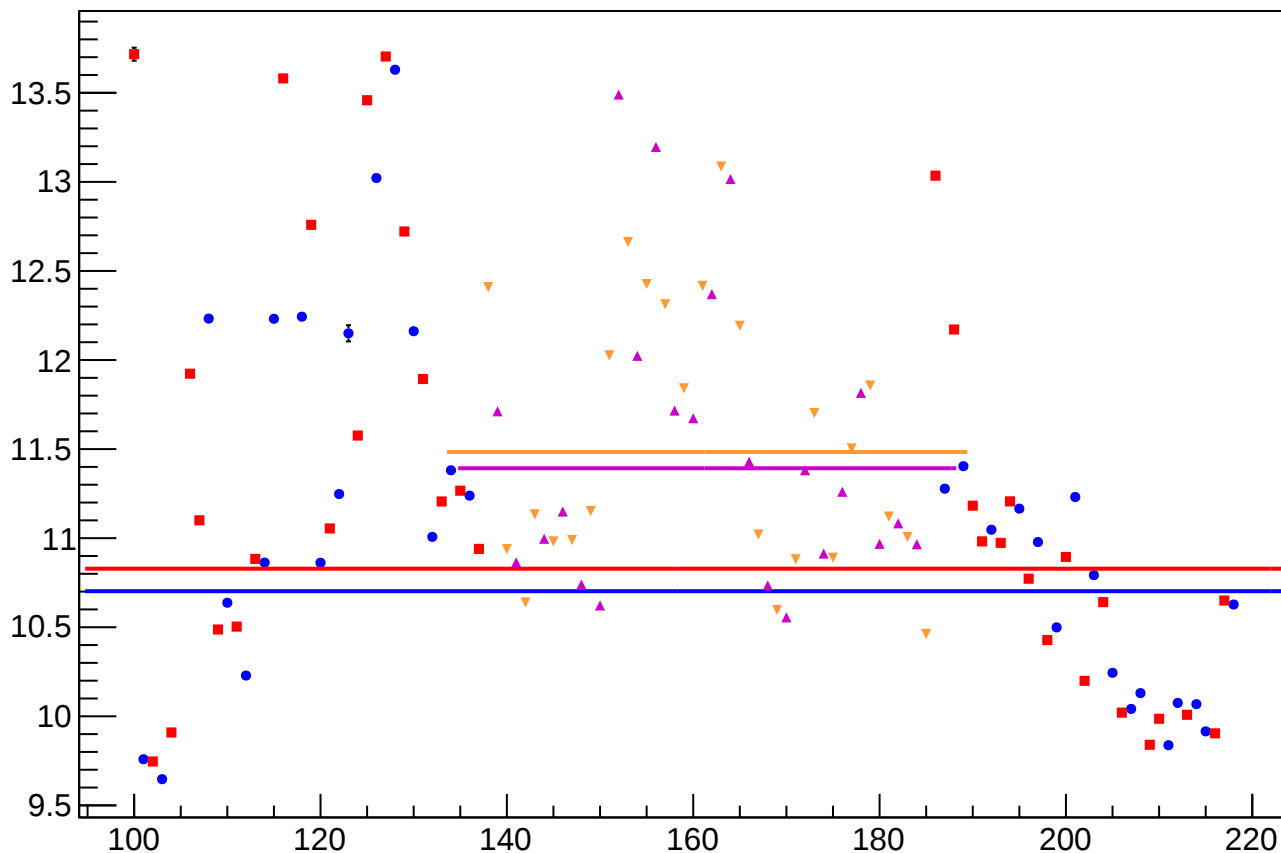
Right: 2.108 ± 1.783 $\chi^2/\text{NDF}: 77.4/68$

In: -1.263 ± 1.861 $\chi^2/\text{NDF}: 60.6/55$

Out: 2.527 ± 1.841 $\chi^2/\text{NDF}: 71.9/60$

All: 0.652 ± 1.309 $\chi^2/\text{NDF}: 134.6/116$

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 10.702 $\pm$ 0.002 χ^2 /NDF: 210498.4/32

Left Out: 11.484 $\pm$ 0.002 χ^2 /NDF:129805.4/24

Right Out: 10.829 $\pm$ 0.002 χ^2 /NDF: 280126.2/35

Left In: 11.392 $\pm$ 0.002 χ^2 /NDF:150493.3/22

Left: 11.439 $\pm$ 0.001 χ^2 /NDF: 281419.2/47

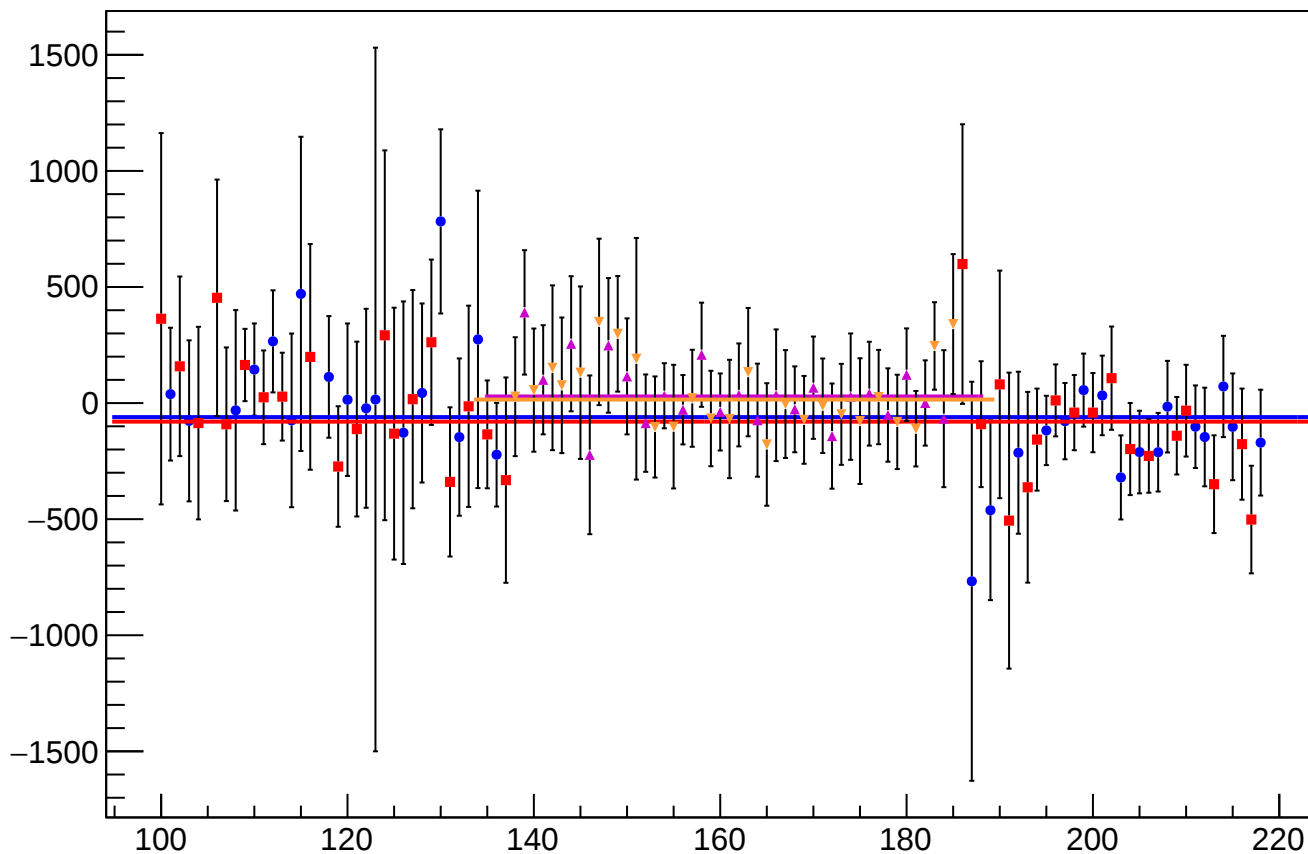
Right: 10.766 $\pm$ 0.001 χ^2 /NDF: 493138.5/68

In: 11.017 $\pm$ 0.001 χ^2 /NDF:429193.1/55

Out: 11.134 $\pm$ 0.001 χ^2 /NDF:472906.7/60

All: 11.076 $\pm$ 0.001 χ^2 /NDF: 906097.9/116

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs Slug, Sign Corrected



Right In: -60.441 ± 42.013 $\chi^2/\text{NDF}: 17.4/32$

Left Out: 15.130 ± 47.705 $\chi^2/\text{NDF}: 8.0/24$

Right Out: -79.927 ± 41.801 $\chi^2/\text{NDF}: 18.1/35$

Left In: 28.500 ± 44.797 $\chi^2/\text{NDF}: 6.4/22$

Left: 22.235 ± 32.656 $\chi^2/\text{NDF}: 14.4/47$

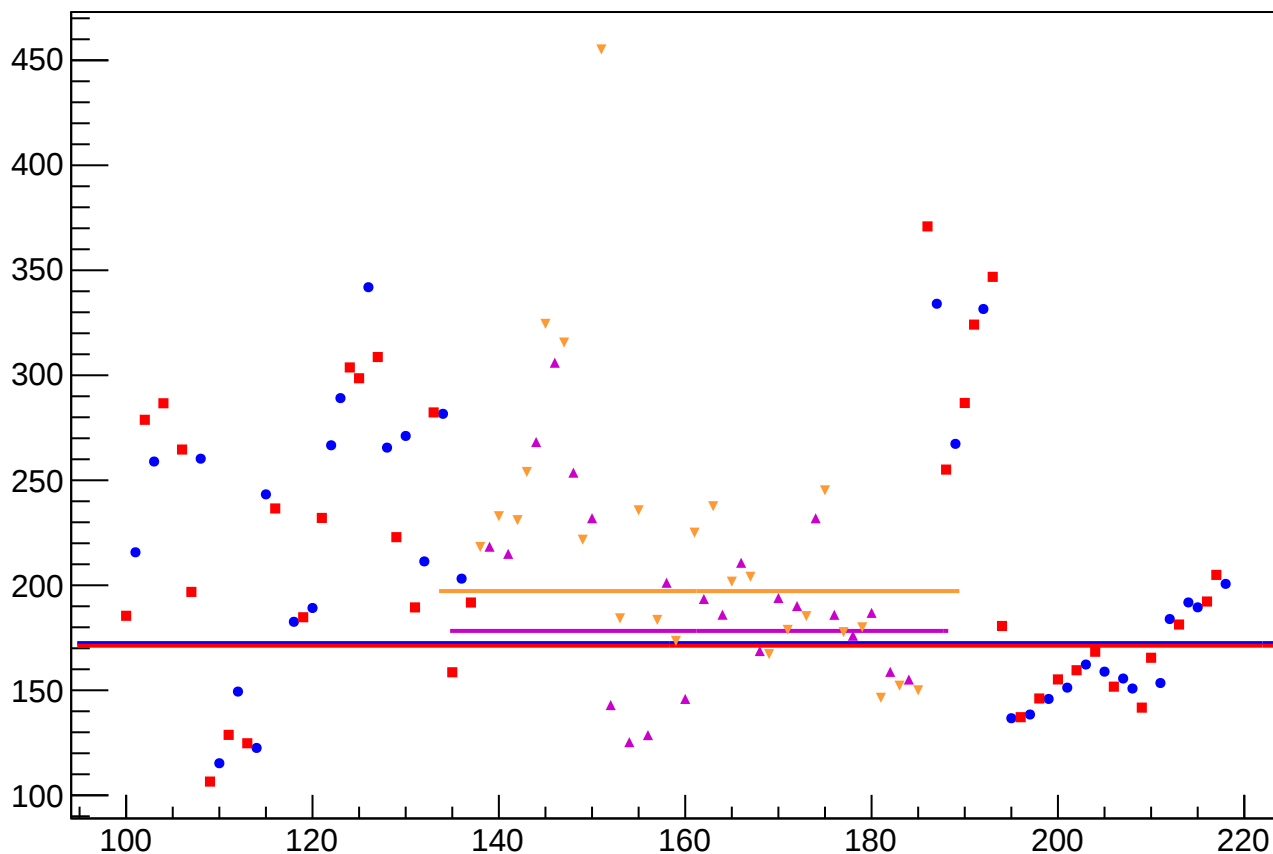
Right: -70.233 ± 29.632 $\chi^2/\text{NDF}: 35.6/68$

In: -18.819 ± 30.645 $\chi^2/\text{NDF}: 25.9/55$

Out: -38.642 ± 31.439 $\chi^2/\text{NDF}: 28.3/60$

All: -28.477 ± 21.944 $\chi^2/\text{NDF}: 54.4/116$

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs Slug, Sign Corrected



Right In: 172.465 $\pm$ 0.030 χ^2 /NDF: 2200060.3/32

Left Out: 197.249 $\pm$ 0.034 χ^2 /NDF:1786808.1/24

Right Out: 171.236 $\pm$ 0.030 χ^2 /NDF: 2896529.4/35

Left In: 178.277 $\pm$ 0.032 χ^2 /NDF:1628916.6/22

Left: 187.167 $\pm$ 0.023 χ^2 /NDF: 3583826.5/47

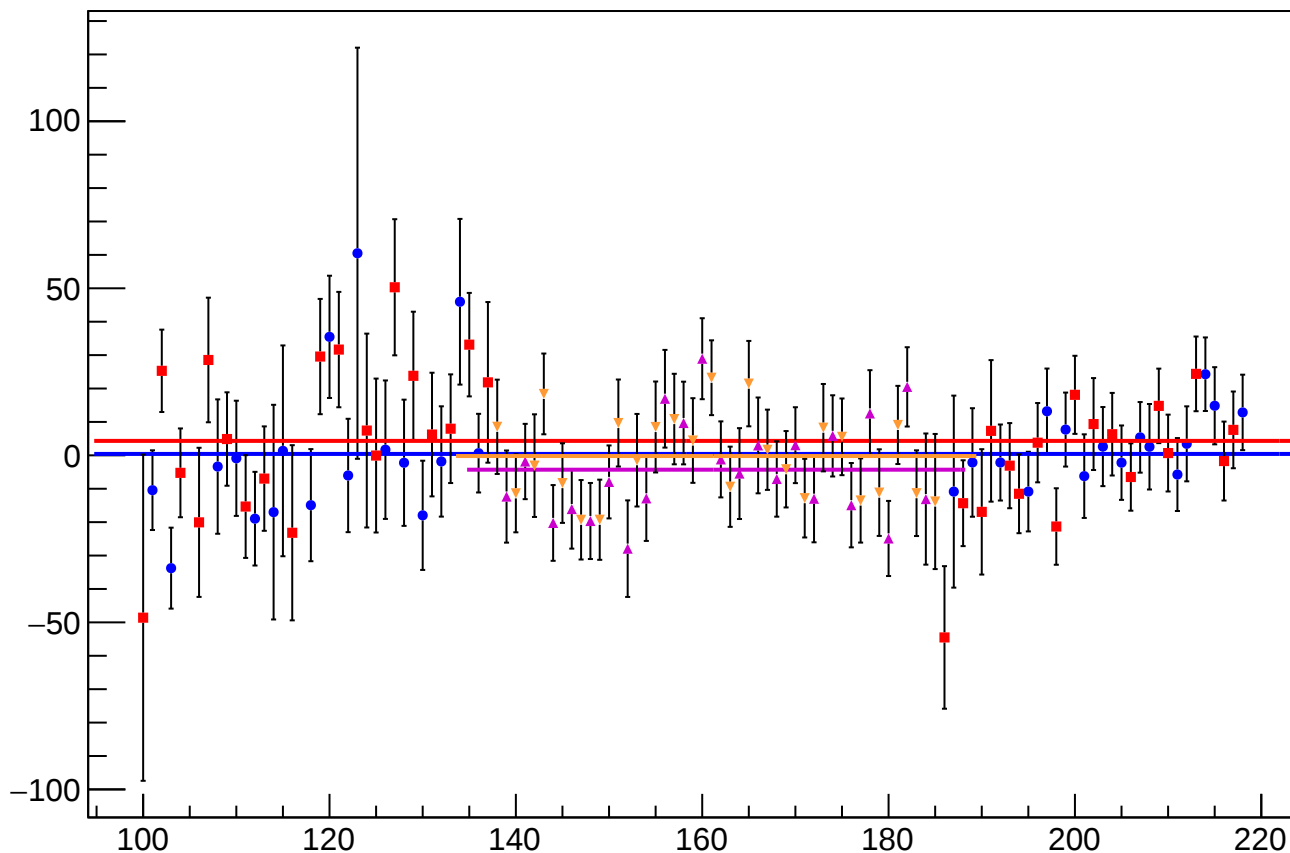
Right: 171.847 $\pm$ 0.021 χ^2 /NDF: 5097449.9/68

In: 175.185 $\pm$ 0.022 χ^2 /NDF:3846888.9/55

Out: 182.534 $\pm$ 0.022 χ^2 /NDF:5019752.6/60

All: 178.765 $\pm$ 0.016 χ^2 /NDF: 8922683.8/116

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs Slug, Sign Corrected



Right In: 0.420 ± 2.433 $\chi^2/\text{NDF}: 32.4/32$

Left Out: -0.211 ± 2.523 $\chi^2/\text{NDF}: 24.5/24$

Right Out: 4.324 ± 2.435 $\chi^2/\text{NDF}: 51.0/35$

Left In: -4.298 ± 2.589 $\chi^2/\text{NDF}: 31.6/22$

Left: -2.202 ± 1.807 $\chi^2/\text{NDF}: 57.4/47$

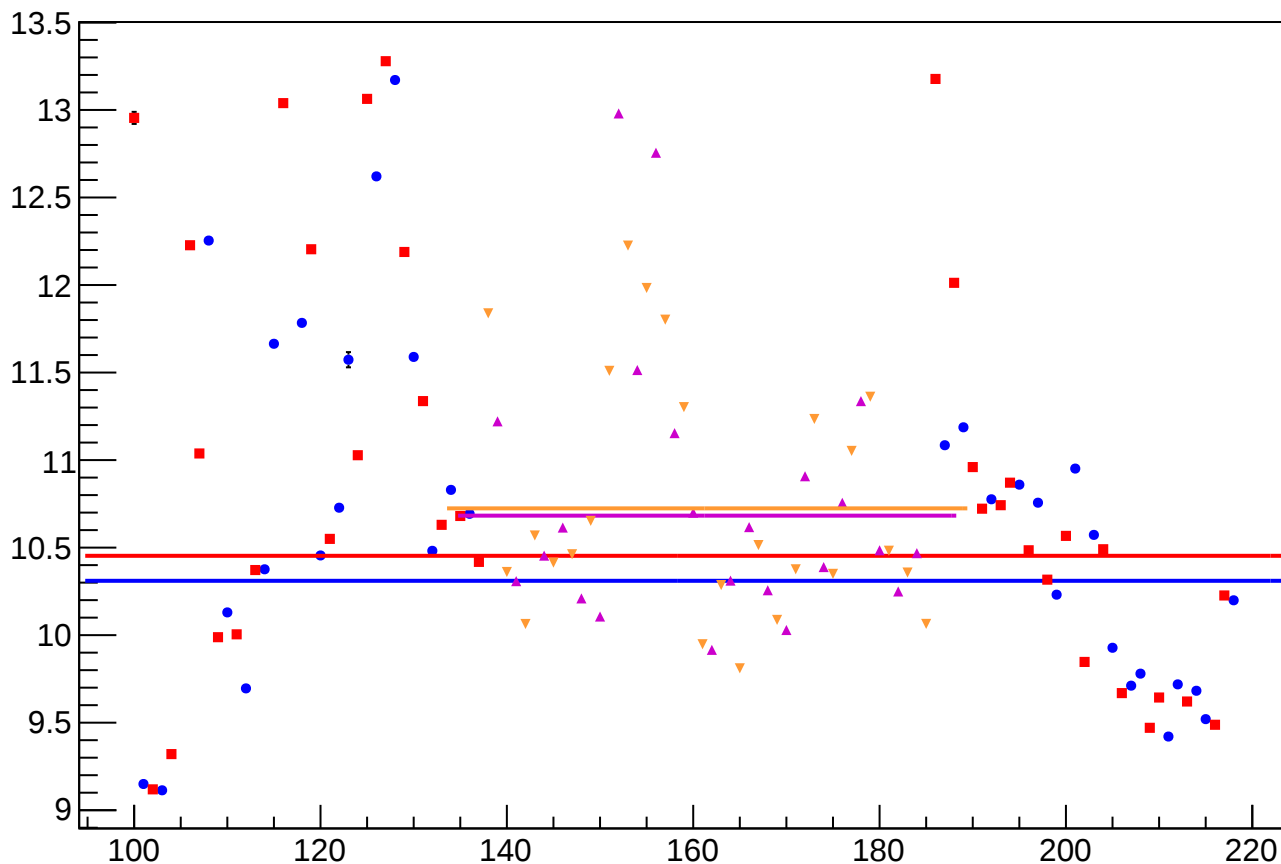
Right: 2.370 ± 1.721 $\chi^2/\text{NDF}: 84.6/68$

In: -1.792 ± 1.773 $\chi^2/\text{NDF}: 65.7/55$

Out: 2.137 ± 1.752 $\chi^2/\text{NDF}: 77.2/60$

All: 0.196 ± 1.246 $\chi^2/\text{NDF}: 145.4/116$

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs Slug, Sign Corrected



Right In: 10.310 $\pm$ 0.002 χ^2 /NDF: 239408.8/32

Left Out: 10.724 $\pm$ 0.002 χ^2 /NDF:132558.9/24

Right Out: 10.453 $\pm$ 0.002 χ^2 /NDF: 322881.9/35

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

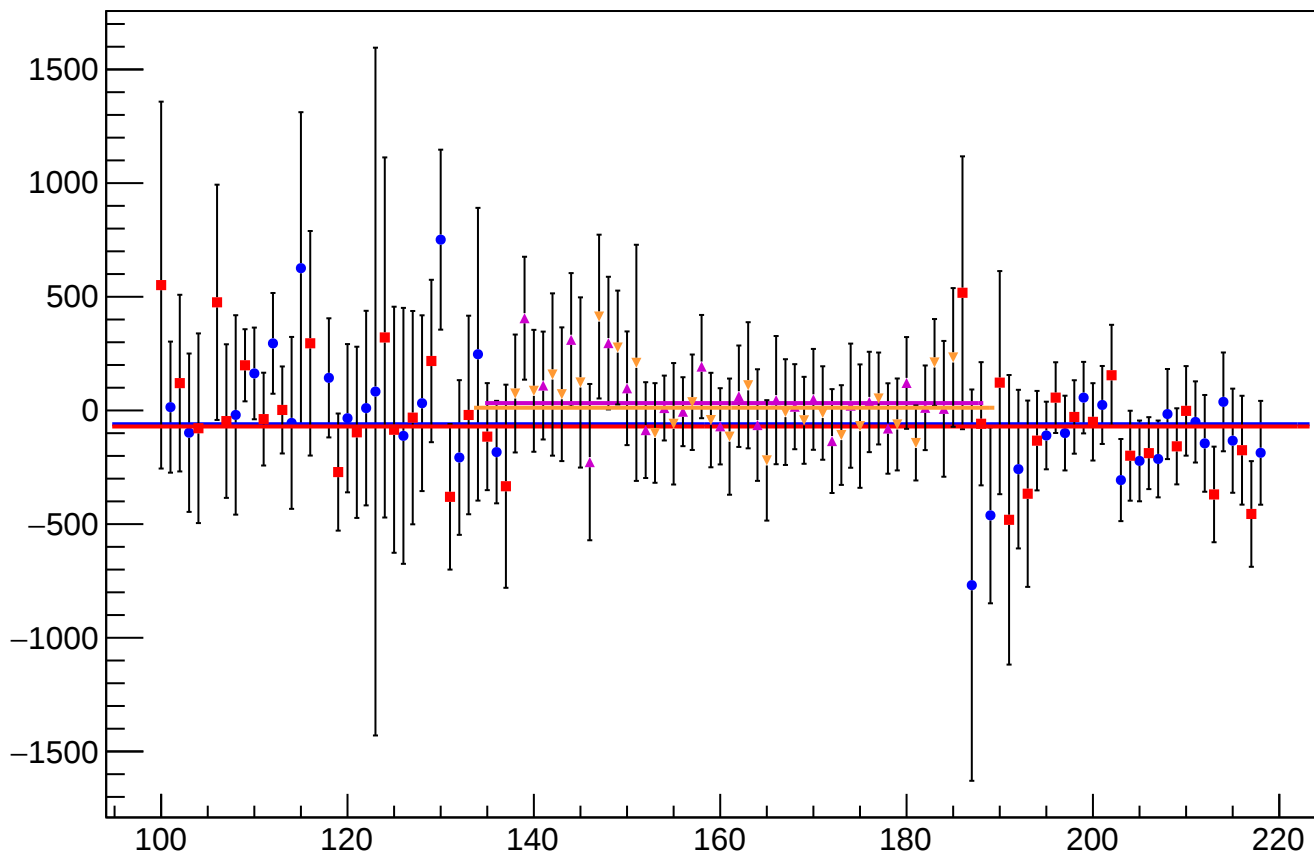
Right: 10.382 $\pm$ 0.001 χ^2 /NDF: 565733.8/68

In: 10.485 $\pm$ 0.001 χ^2 /NDF:409199.5/55

Out: 10.584 $\pm$ 0.001 χ^2 /NDF:467383.3/60

All: 10.535 $\pm$ 0.001 χ^2 /NDF: 879733.4/116

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -60.629 ± 42.073 $\chi^2/\text{NDF}: 17.9/32$

Left Out: 11.891 ± 48.022 $\chi^2/\text{NDF}: 7.6/24$

Right Out: -70.623 ± 41.922 $\chi^2/\text{NDF}: 18.6/35$

Left In: 32.413 ± 45.155 $\chi^2/\text{NDF}: 6.9/22$

Left: 22.783 ± 32.896 $\chi^2/\text{NDF}: 14.6/47$

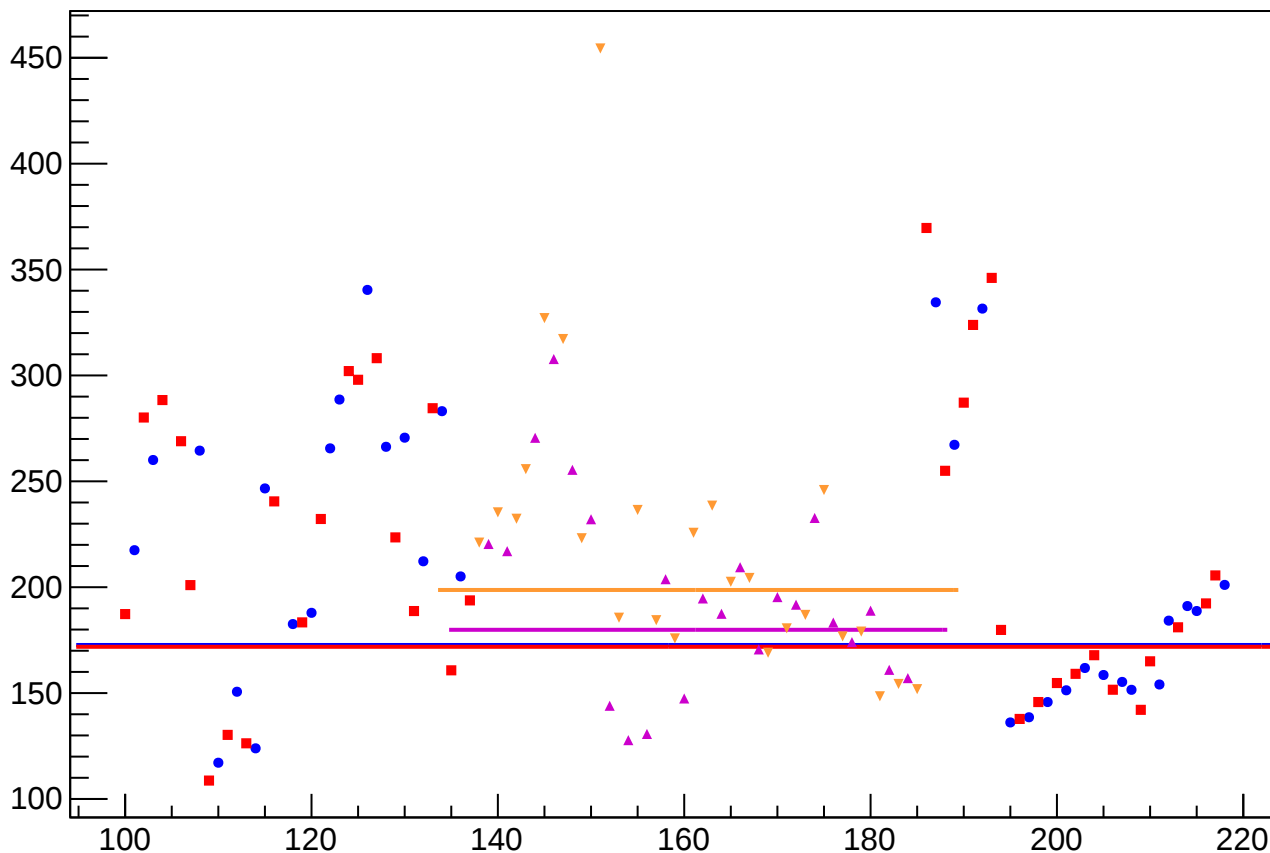
Right: -65.644 ± 29.696 $\chi^2/\text{NDF}: 36.5/68$

In: -17.391 ± 30.782 $\chi^2/\text{NDF}: 27.0/55$

Out: -34.937 ± 31.581 $\chi^2/\text{NDF}: 27.9/60$

All: -25.939 ± 22.043 $\chi^2/\text{NDF}: 55.1/116$

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 172.720 +/- 0.030 χ^2/NDF : 2195423.9/32

Left Out: 198.695 +/- 0.034 χ^2/NDF : 1759311.9/24

Right Out: 171.864 +/- 0.030 χ^2/NDF : 2854487.8/35

Left In: 179.886 +/- 0.032 χ^2/NDF : 1580636.4/22

Left: 188.712 +/- 0.023 χ^2/NDF : 3502782.6/47

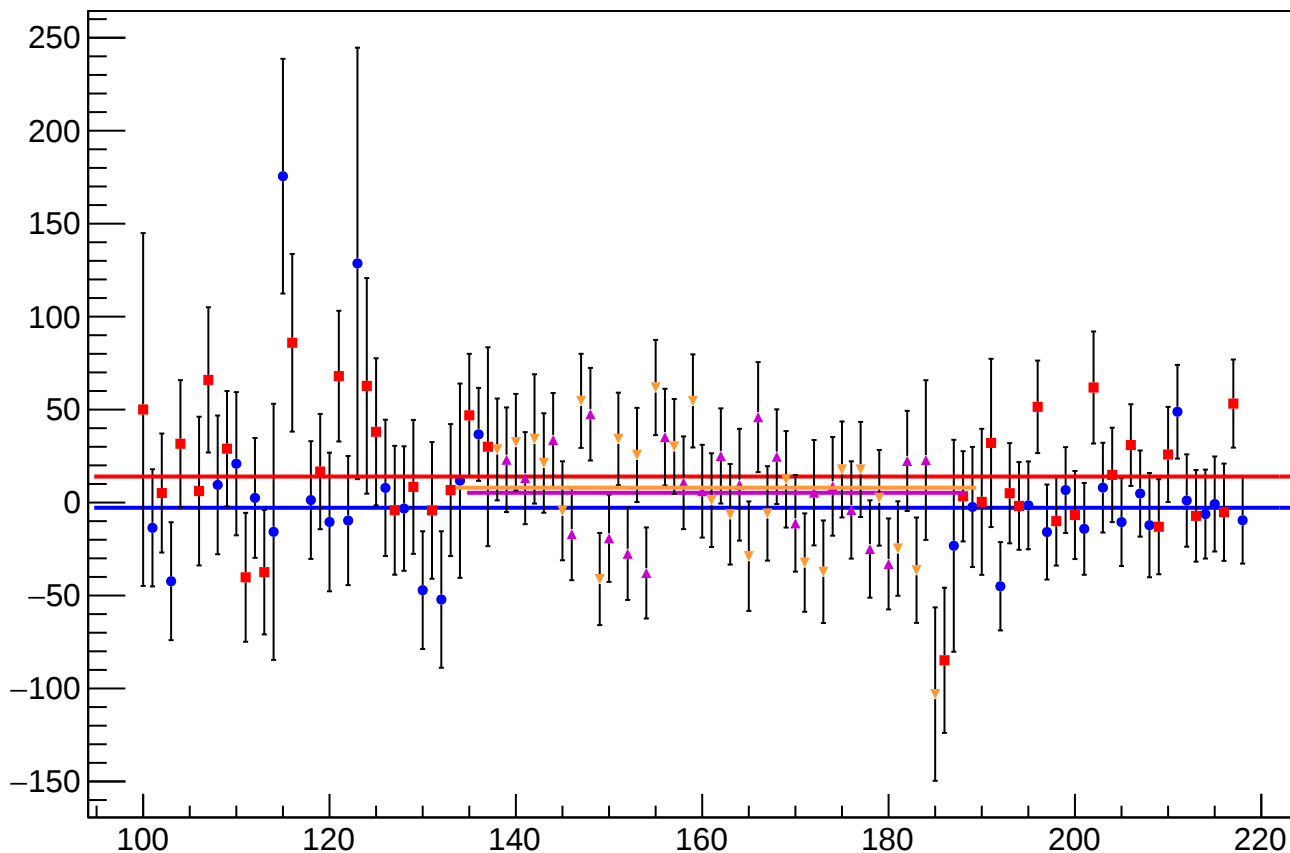
Right: 172.290 +/- 0.021 χ^2/NDF : 5050327.1/68

In: 176.050 +/- 0.022 χ^2/NDF : 3803026.7/55

Out: 183.468 +/- 0.022 χ^2/NDF : 4968120.9/60

All: 179.664 +/- 0.016 χ^2/NDF : 8827730.0/116

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -2.795 ± 5.156 χ^2/NDF : 26.8/32

Left Out: 8.004 ± 5.334 χ^2/NDF : 37.4/24

Right Out: 13.998 ± 5.123 χ^2/NDF : 34.7/35

Left In: 5.261 ± 5.465 χ^2/NDF : 20.8/22

Left: 6.665 ± 3.817 χ^2/NDF : 58.3/47

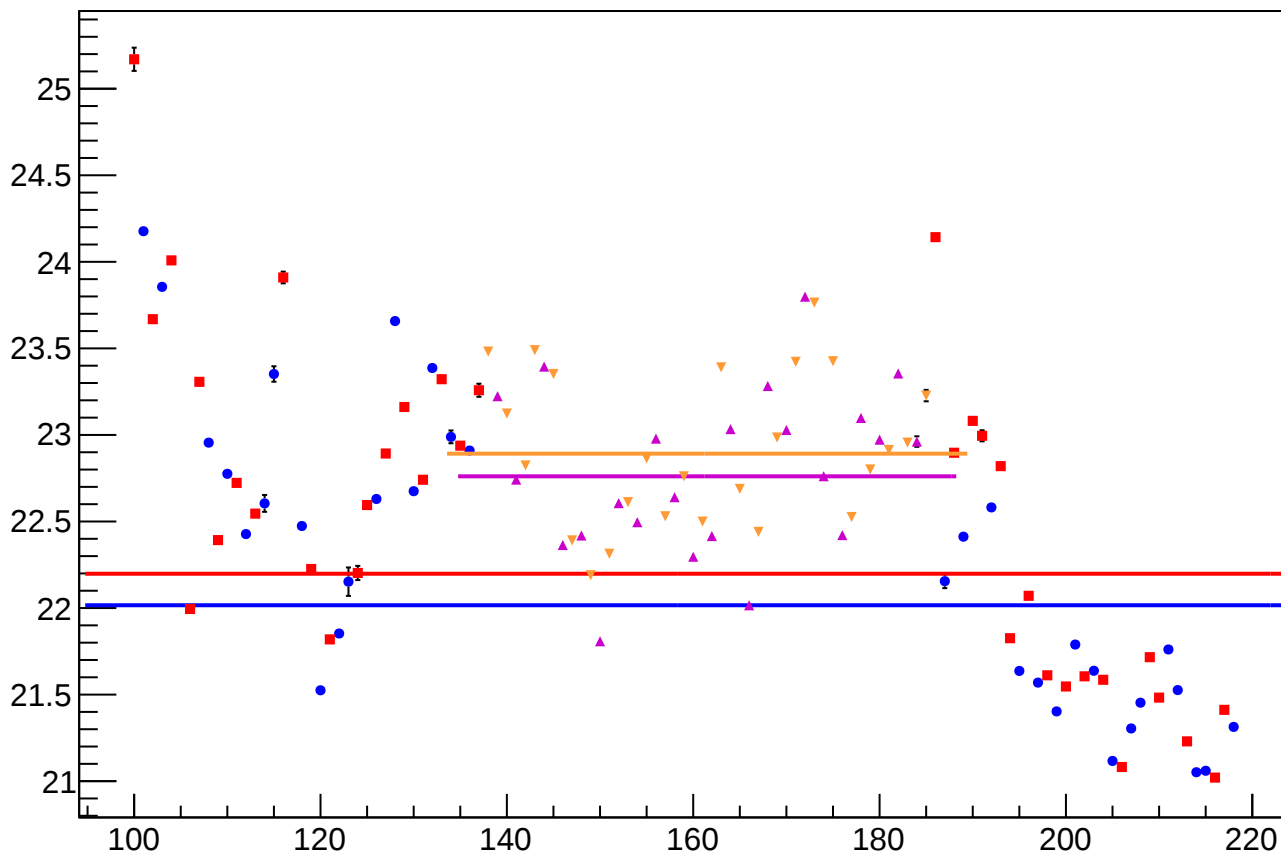
Right: 5.654 ± 3.634 χ^2/NDF : 66.8/68

In: 0.999 ± 3.750 χ^2/NDF : 48.7/55

Out: 11.121 ± 3.695 χ^2/NDF : 72.8/60

All: 6.135 ± 2.632 χ^2/NDF : 125.2/116

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.016+/-0.004 χ^2/NDF : 51721.3/32

Left Out: 22.892+/-0.004 χ^2/NDF :12995.5/24

Right Out: 22.198+/-0.004 χ^2/NDF : 54969.9/35

Left In: 22.761+/-0.004 χ^2/NDF :14550.0/22

Left: 22.828+/-0.003 χ^2/NDF : 28133.9/47

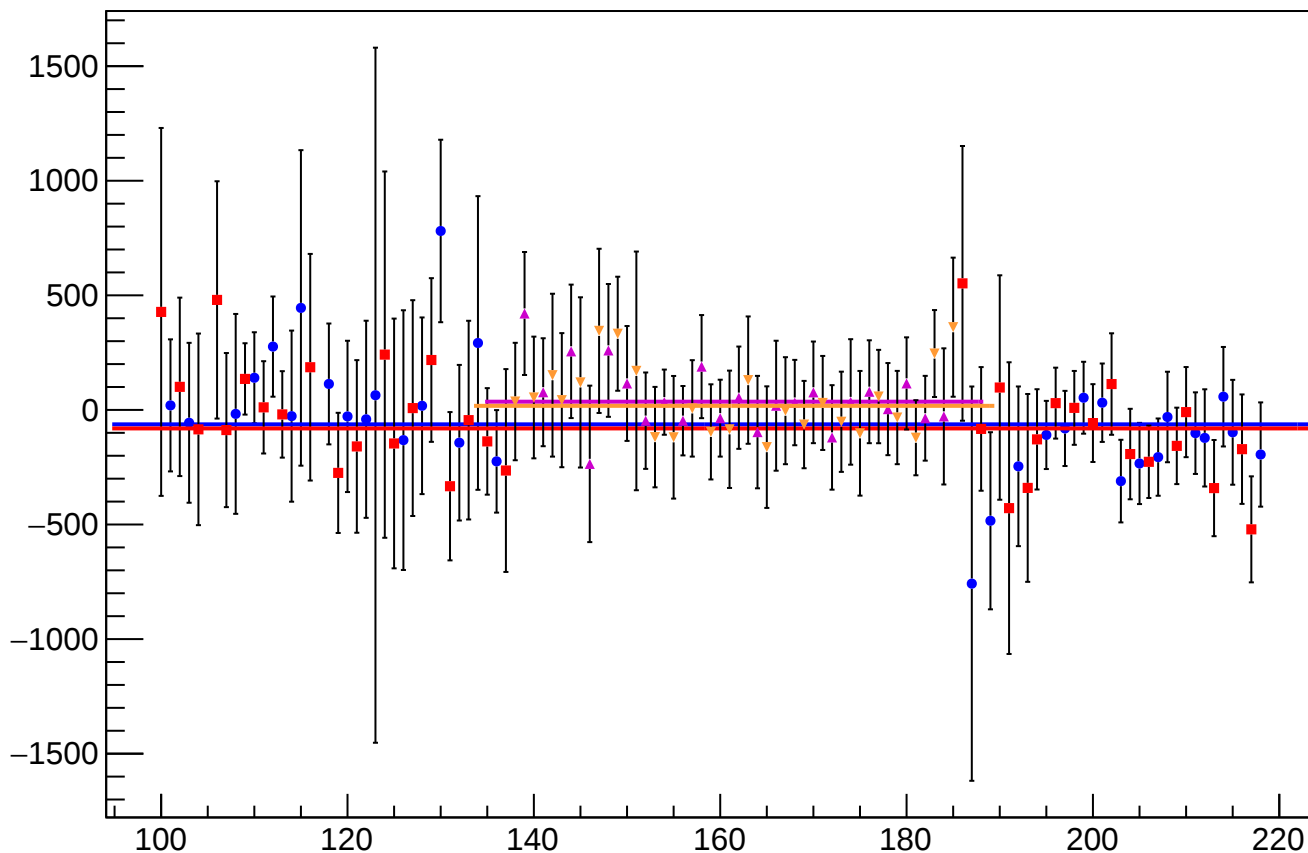
Right: 22.108+/-0.003 χ^2/NDF : 107946.8/68

In: 22.367+/-0.003 χ^2/NDF :85925.7/55

Out: 22.531+/-0.003 χ^2/NDF :85557.6/60

All: 22.450+/-0.002 χ^2/NDF : 173429.3/116

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -63.007 $\pm$ 41.955 χ^2 /NDF: 17.4/32

Left Out: 17.777 $\pm$ 47.941 χ^2 /NDF:8.5/24

Right Out: -80.786 $\pm$ 41.746 χ^2 /NDF: 17.1/35

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

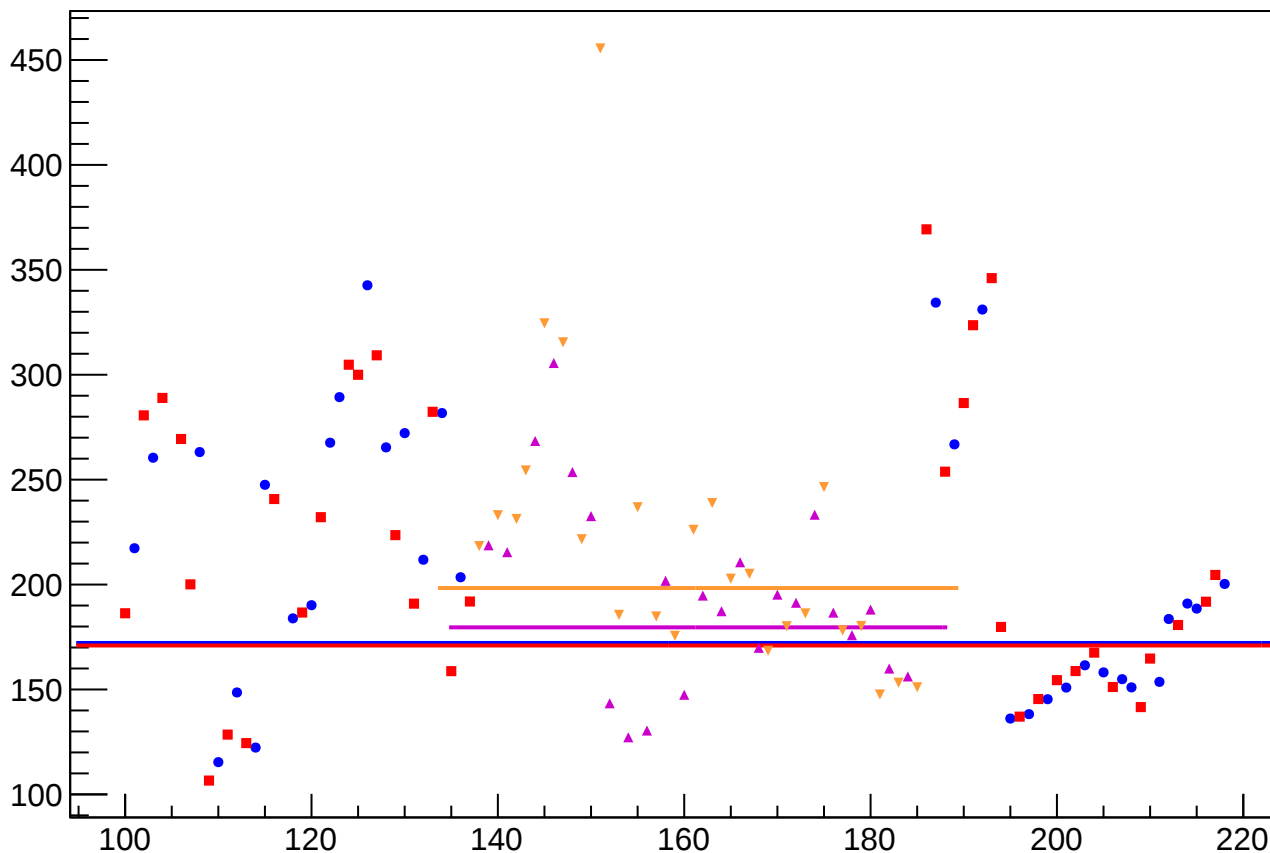
Right: -71.940 $\pm$ 29.592 χ^2 /NDF: 34.6/68

In: -17.118 $\pm$ 30.714 χ^2 /NDF:26.3/55

Out: -38.280 $\pm$ 31.483 χ^2 /NDF:28.0/60

All: -27.438 $\pm$ 21.985 χ^2 /NDF: 54.6/116

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 172.166+/-0.030 χ^2/NDF : 2226350.7/32

Left Out: 198.344+/-0.034 χ^2/NDF :1757450.6/24

Right Out: 170.962+/-0.030 χ^2/NDF : 2923459.9/35

Left In: 179.605+/-0.032 χ^2/NDF :1575744.0/22

Left: 188.400+/-0.023 χ^2/NDF : 3495336.8/47

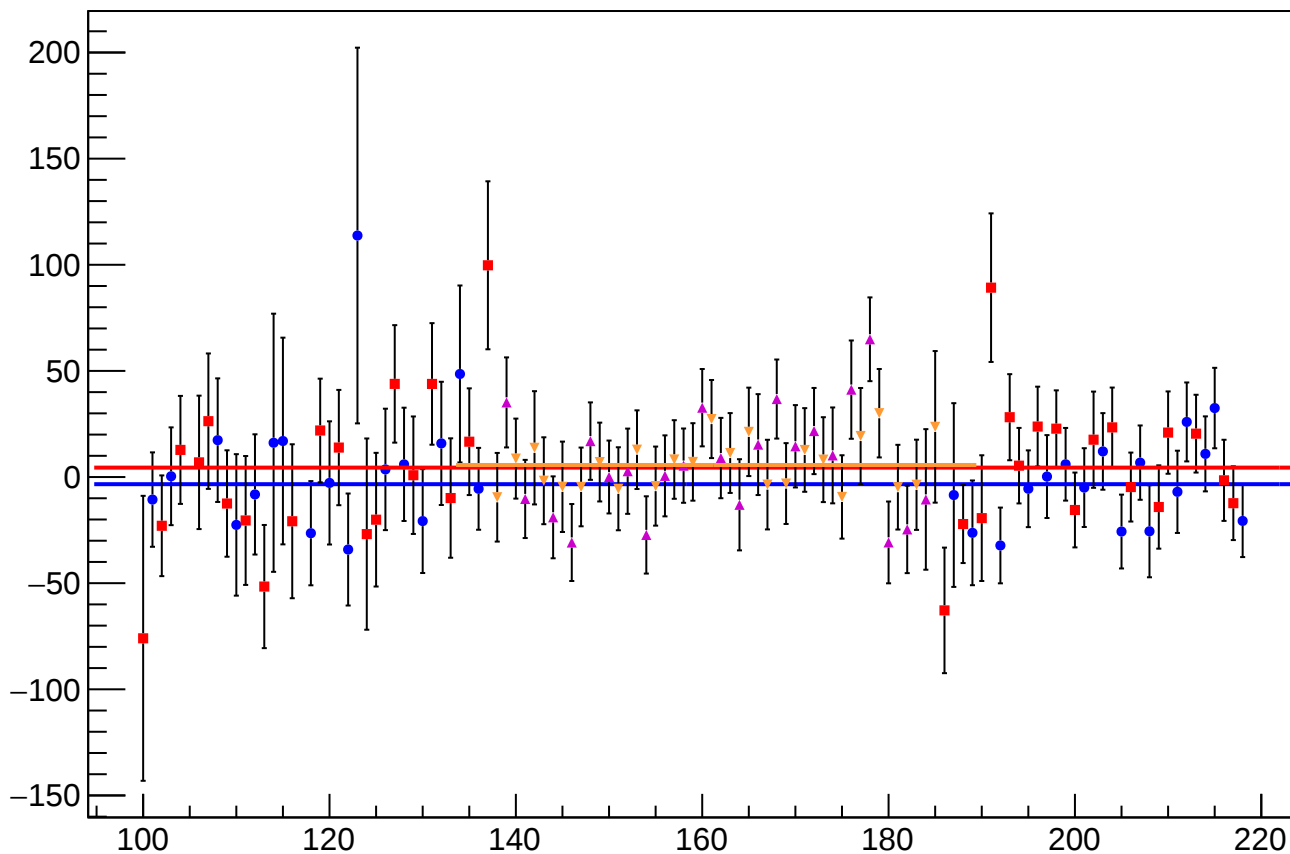
Right: 171.561+/-0.021 χ^2/NDF : 5150637.9/68

In: 175.618+/-0.022 χ^2/NDF :3831272.1/55

Out: 182.771+/-0.022 χ^2/NDF :5051963.3/60

All: 179.106+/-0.016 χ^2/NDF : 8936124.0/116

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -3.366 ± 3.918 $\chi^2/\text{NDF}: 23.4/32$

Left Out: 5.680 ± 4.024 $\chi^2/\text{NDF}: 7.7/24$

Right Out: 4.438 ± 3.903 $\chi^2/\text{NDF}: 44.3/35$

Left In: 5.595 ± 4.121 $\chi^2/\text{NDF}: 36.4/22$

Left: 5.639 ± 2.879 $\chi^2/\text{NDF}: 44.1/47$

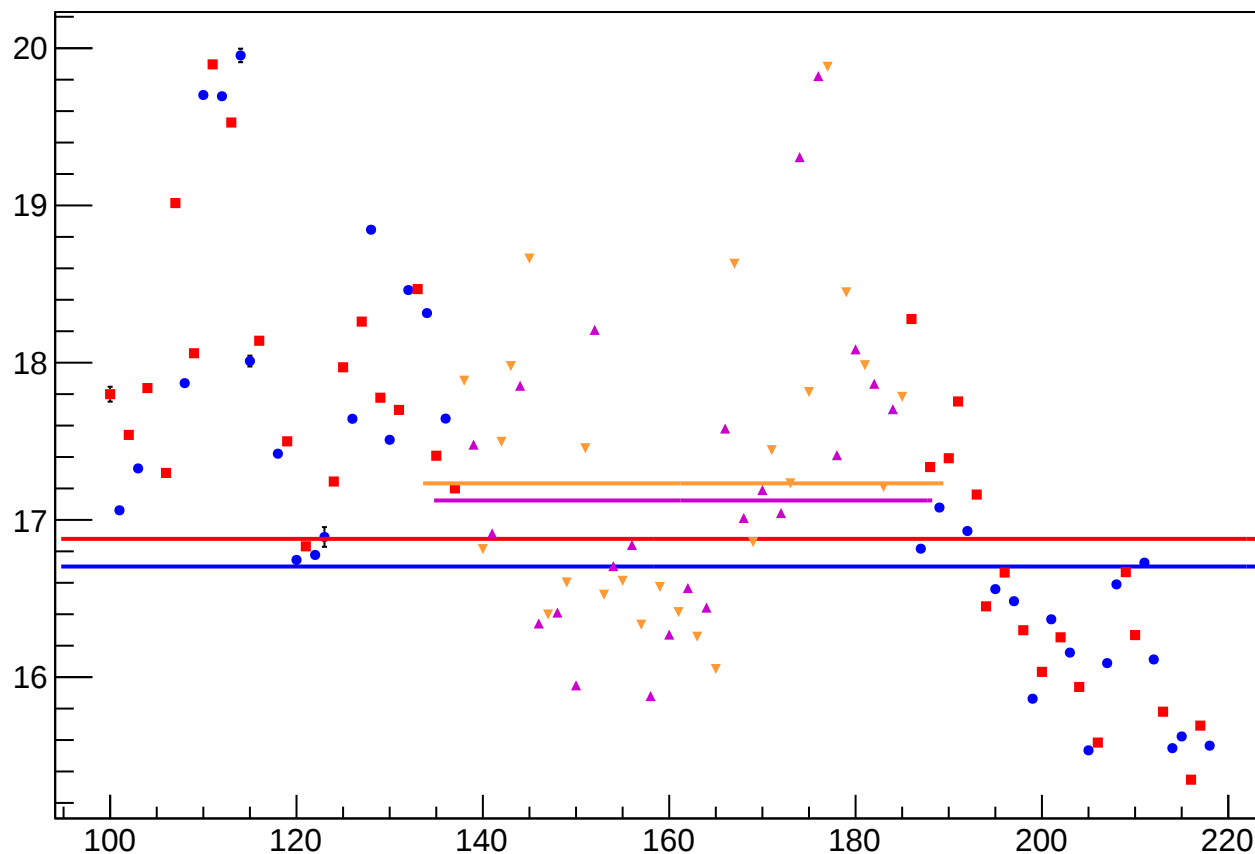
Right: 0.551 ± 2.765 $\chi^2/\text{NDF}: 69.6/68$

In: 0.888 ± 2.839 $\chi^2/\text{NDF}: 62.2/55$

Out: 5.040 ± 2.801 $\chi^2/\text{NDF}: 52.1/60$

All: 2.992 ± 1.994 $\chi^2/\text{NDF}: 115.4/116$

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 16.704 $\pm$ 0.003 χ^2 /NDF: 130986.2/32

Left Out: 17.232 $\pm$ 0.003 χ^2 /NDF:98701.0/24

Right Out: 16.879 $\pm$ 0.003 χ^2 /NDF: 144262.5/35

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

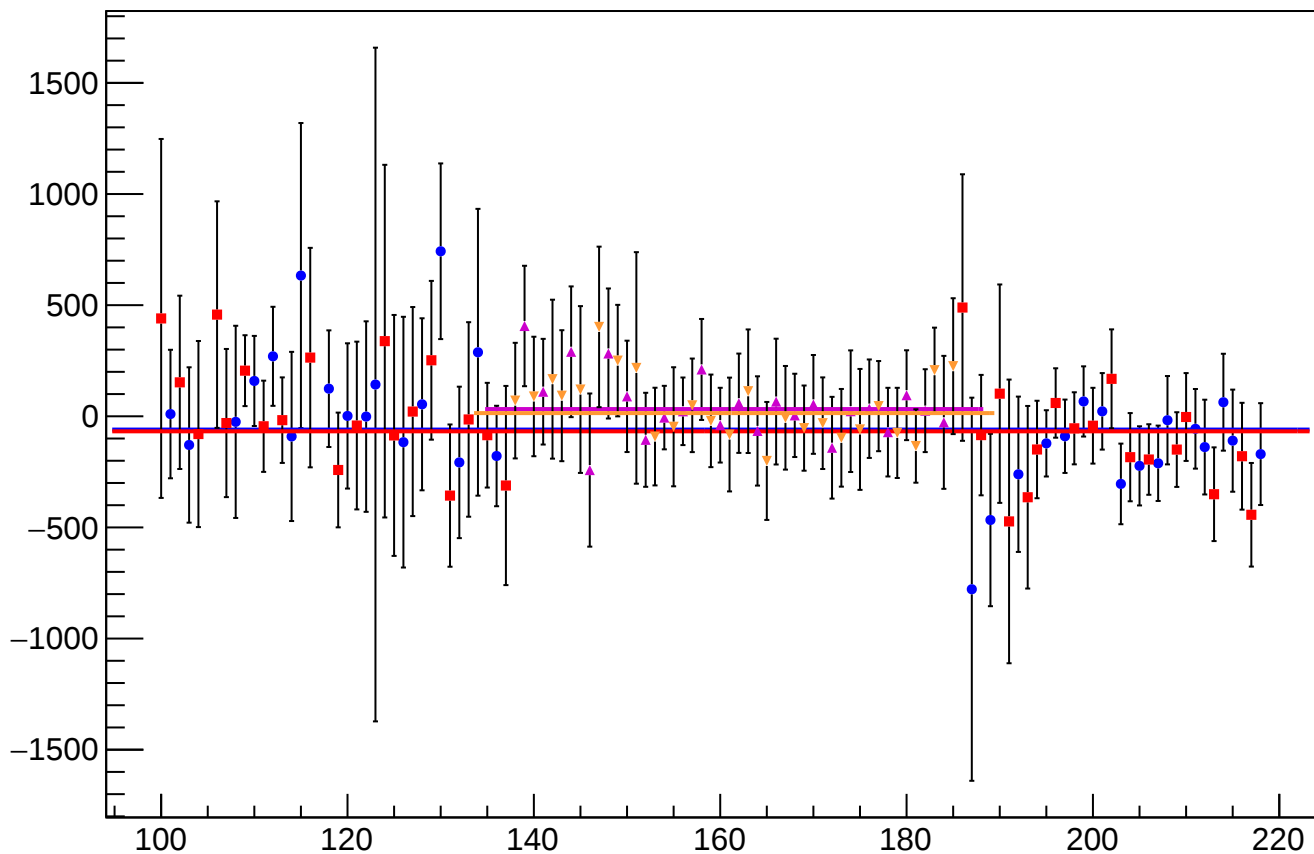
Right: 16.792 $\pm$ 0.002 χ^2 /NDF: 277271.3/68

In: 16.903 $\pm$ 0.002 χ^2 /NDF:242654.6/55

Out: 17.051 $\pm$ 0.002 χ^2 /NDF:250897.6/60

All: 16.978 $\pm$ 0.001 χ^2 /NDF: 496289.2/116

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -59.695 ± 42.199 χ^2/NDF : 17.5/32

Left Out: 14.362 ± 48.130 χ^2/NDF : 6.9/24

Right Out: -67.663 ± 42.034 χ^2/NDF : 17.8/35

Left In: 32.571 ± 45.248 χ^2/NDF : 6.7/22

Left: 24.028 ± 32.967 χ^2/NDF : 13.7/47

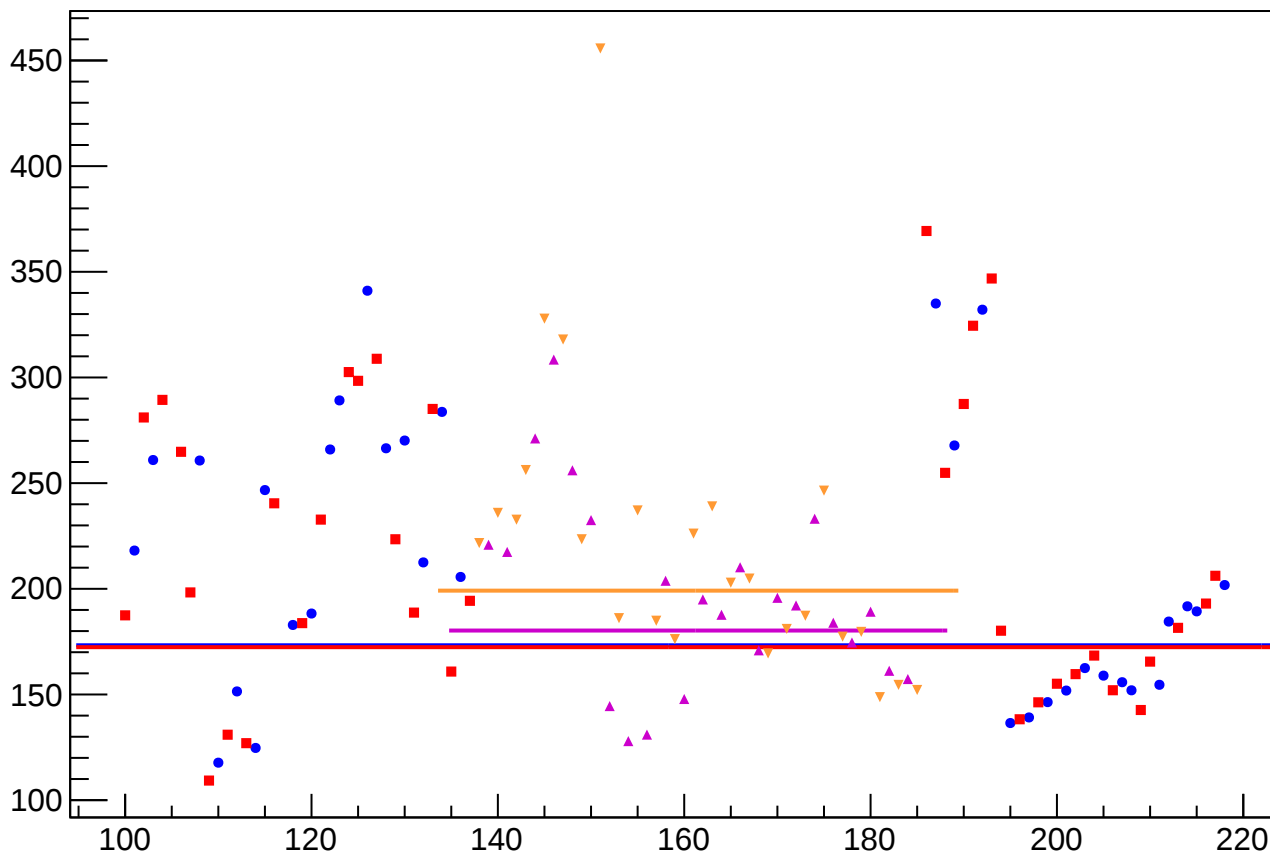
Right: -63.695 ± 29.781 χ^2/NDF : 35.2/68

In: -16.775 ± 30.861 χ^2/NDF : 26.4/55

Out: -32.171 ± 31.660 χ^2/NDF : 26.3/60

All: -24.276 ± 22.099 χ^2/NDF : 52.9/116

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 173.283 $\pm$ 0.030 χ^2 /NDF: 2177174.4/32

Left Out: 199.136 $\pm$ 0.034 χ^2 /NDF:1760298.1/24

Right Out: 172.383 $\pm$ 0.030 χ^2 /NDF: 2829903.1/35

Left In: 180.256 $\pm$ 0.032 χ^2 /NDF:1580553.5/22

Left: 189.114 $\pm$ 0.023 χ^2 /NDF: 3504211.1/47

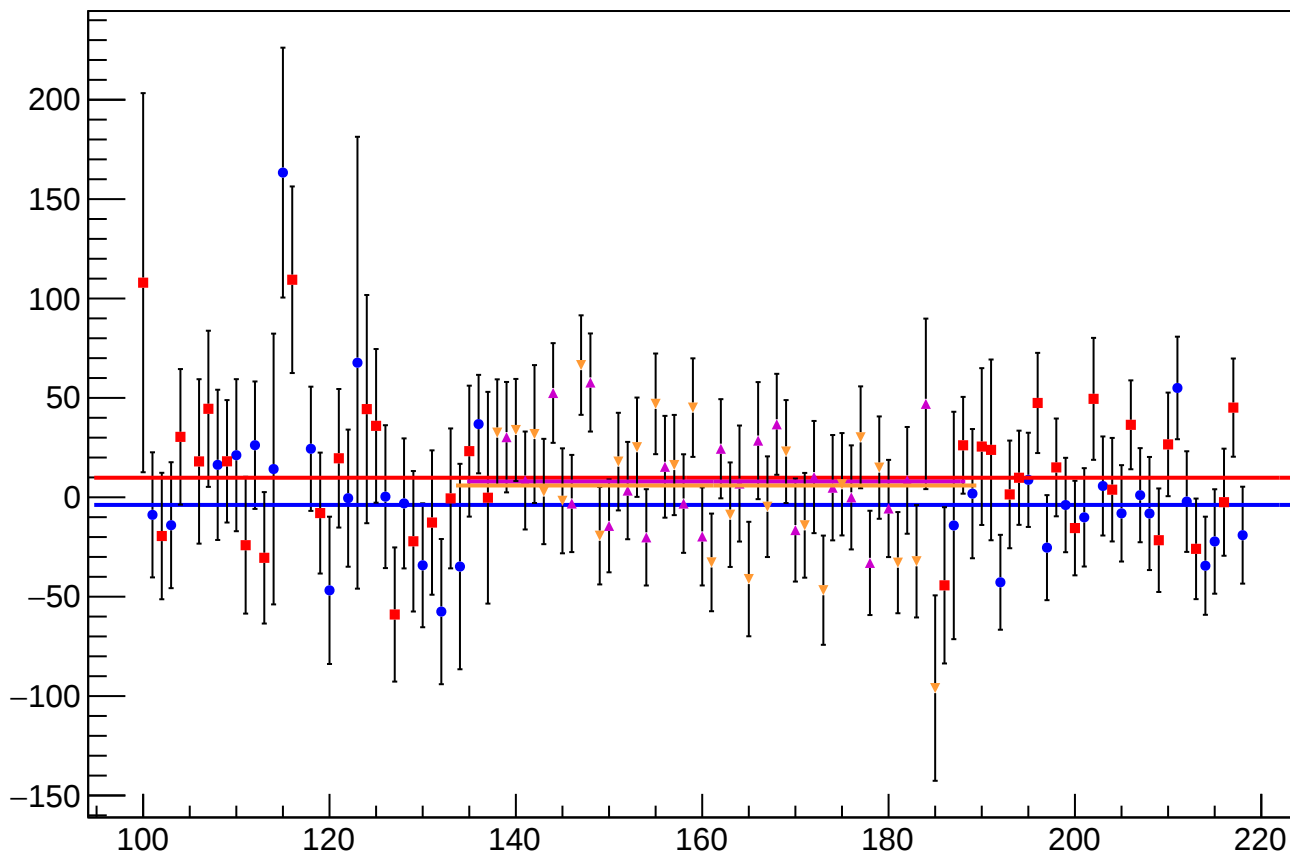
Right: 172.831 $\pm$ 0.021 χ^2 /NDF: 5007533.3/68

In: 176.527 $\pm$ 0.022 χ^2 /NDF:3783136.2/55

Out: 183.959 $\pm$ 0.022 χ^2 /NDF:4940742.1/60

All: 180.148 $\pm$ 0.016 χ^2 /NDF: 8780402.1/116

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -3.834 ± 5.213 χ^2/NDF : 29.2/32

Left Out: 5.937 ± 5.285 χ^2/NDF : 36.1/24

Right Out: 9.843 ± 5.163 χ^2/NDF : 32.4/35

Left In: 7.915 ± 5.422 χ^2/NDF : 18.7/22

Left: 6.901 ± 3.784 χ^2/NDF : 54.9/47

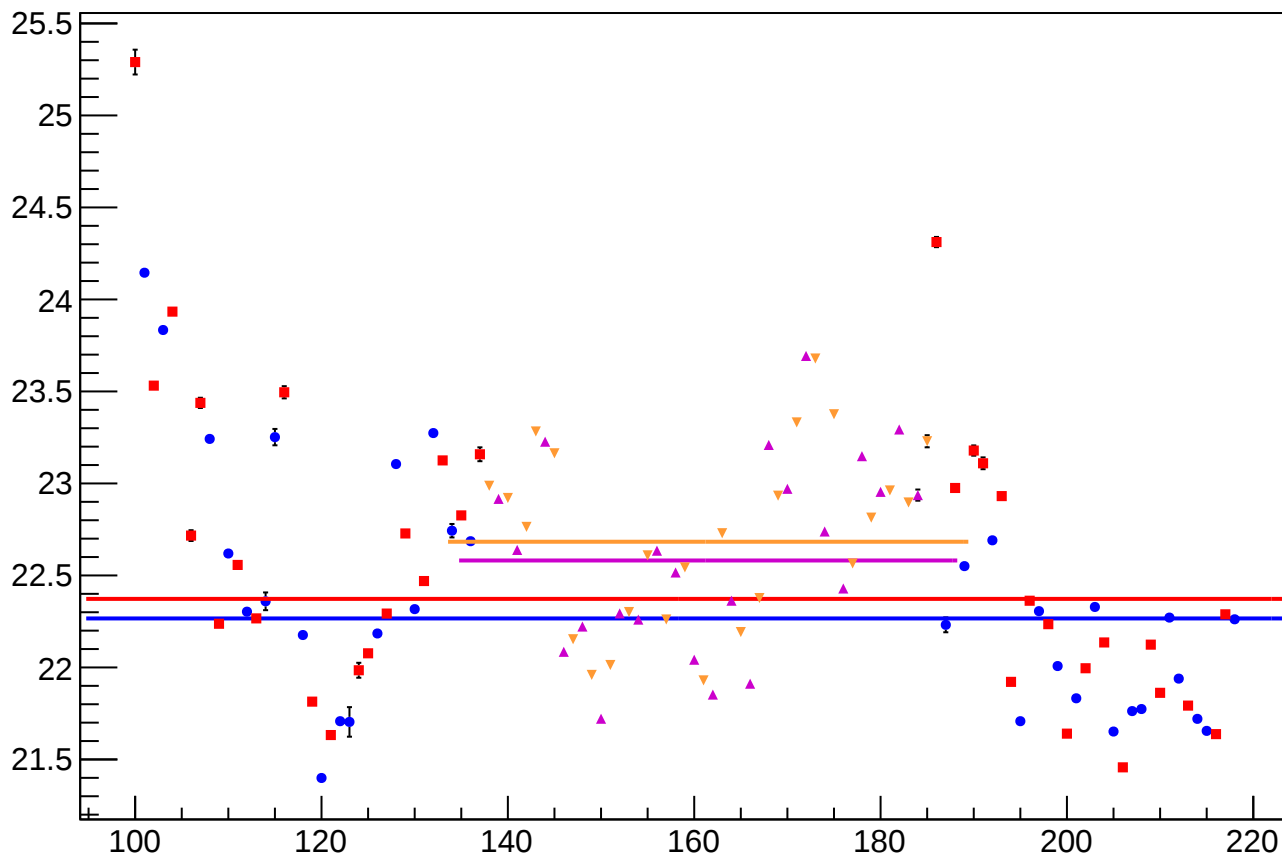
Right: 3.071 ± 3.668 χ^2/NDF : 65.1/68

In: 1.811 ± 3.758 χ^2/NDF : 50.3/55

Out: 7.936 ± 3.693 χ^2/NDF : 68.8/60

All: 4.927 ± 2.634 χ^2/NDF : 120.5/116

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.266 $\pm$ 0.004 χ^2 /NDF: 27265.4/32

Left Out: 22.683 $\pm$ 0.004 χ^2 /NDF:16320.2/24

Right Out: 22.373 $\pm$ 0.004 χ^2 /NDF: 33654.5/35

Left In: 22.581 $\pm$ 0.004 χ^2 /NDF:17904.5/22

Left: 22.634 $\pm$ 0.003 χ^2 /NDF: 34586.9/47

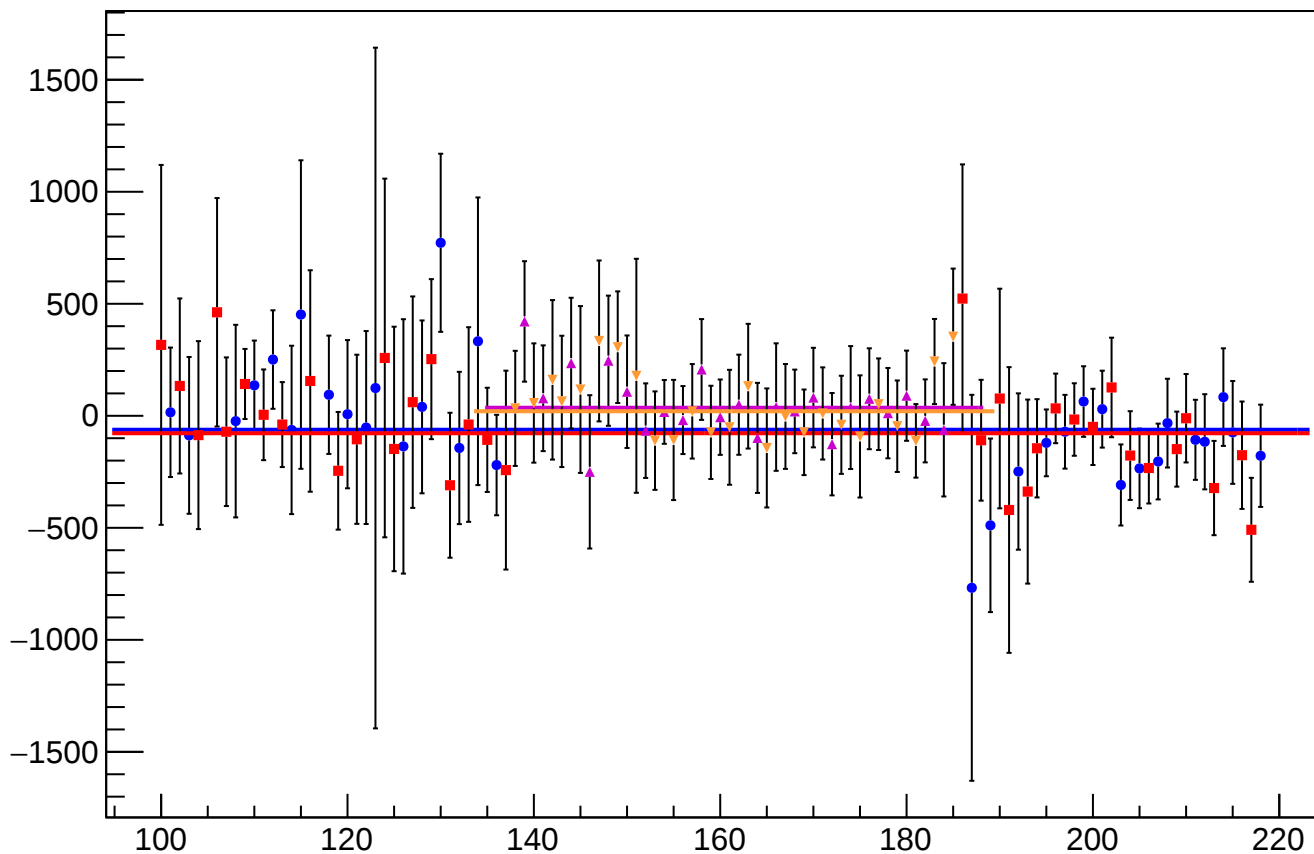
Right: 22.320 $\pm$ 0.003 χ^2 /NDF: 61340.0/68

In: 22.418 $\pm$ 0.003 χ^2 /NDF:48678.5/55

Out: 22.524 $\pm$ 0.003 χ^2 /NDF:53509.1/60

All: 22.472 $\pm$ 0.002 χ^2 /NDF: 103006.7/116

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -62.144 ± 42.081 $\chi^2/\text{NDF}: 17.1/32$

Left Out: 20.306 ± 48.049 $\chi^2/\text{NDF}: 7.7/24$

Right Out: -77.875 ± 41.859 $\chi^2/\text{NDF}: 16.2/35$

Left In: 35.996 ± 45.180 $\chi^2/\text{NDF}: 6.1/22$

Left: 28.633 ± 32.915 $\chi^2/\text{NDF}: 13.8/47$

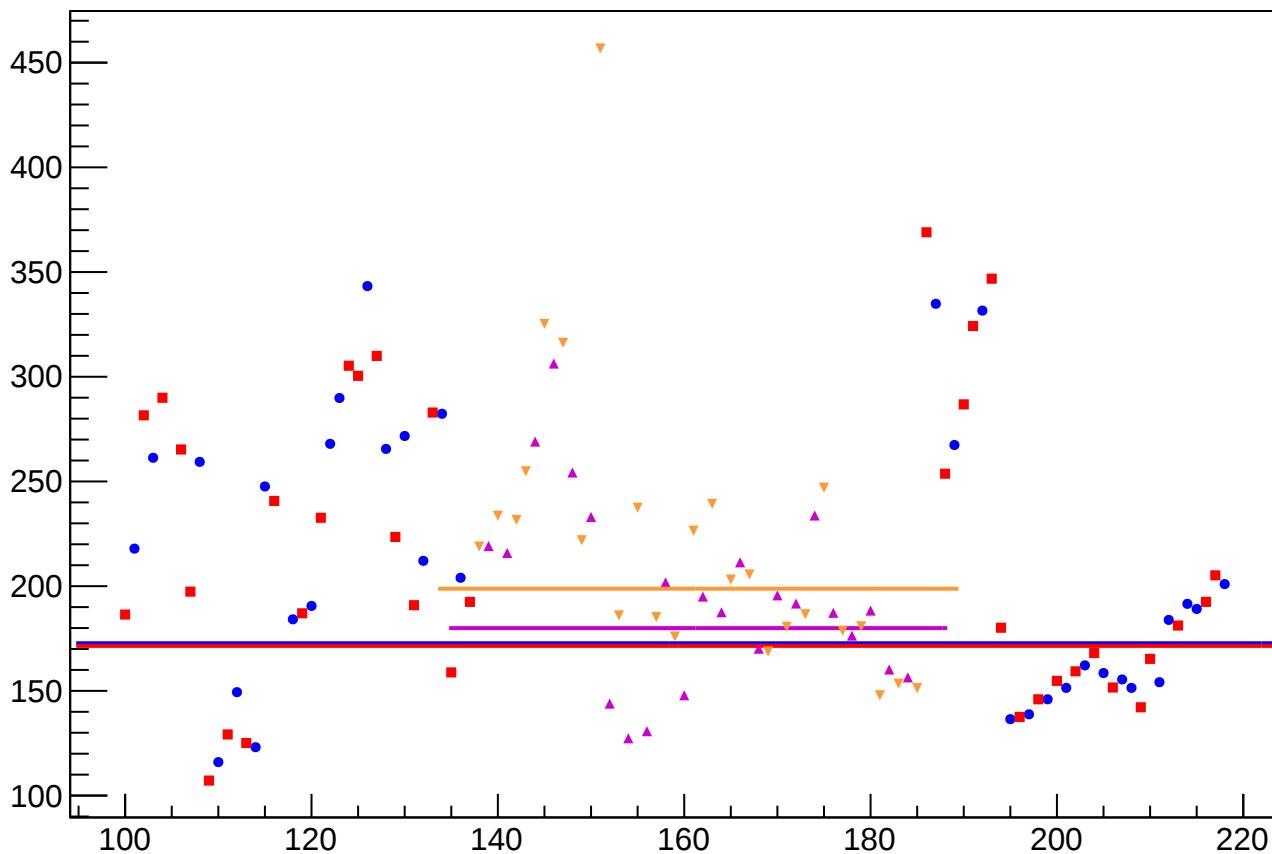
Right: -70.051 ± 29.677 $\chi^2/\text{NDF}: 33.4/68$

In: -16.554 ± 30.793 $\chi^2/\text{NDF}: 25.7/55$

Out: -35.512 ± 31.562 $\chi^2/\text{NDF}: 26.3/60$

All: -25.799 ± 22.041 $\chi^2/\text{NDF}: 52.1/116$

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 172.734 ± 0.030 $\chi^2/\text{NDF}: 2207499.6/32$

Left Out: 198.784 ± 0.034 $\chi^2/\text{NDF}: 1758481.8/24$

Right Out: 171.488 ± 0.030 $\chi^2/\text{NDF}: 2897939.3/35$

Left In: 179.972 ± 0.032 $\chi^2/\text{NDF}: 1575888.3/22$

Left: 188.800 ± 0.023 $\chi^2/\text{NDF}: 3497081.8/47$

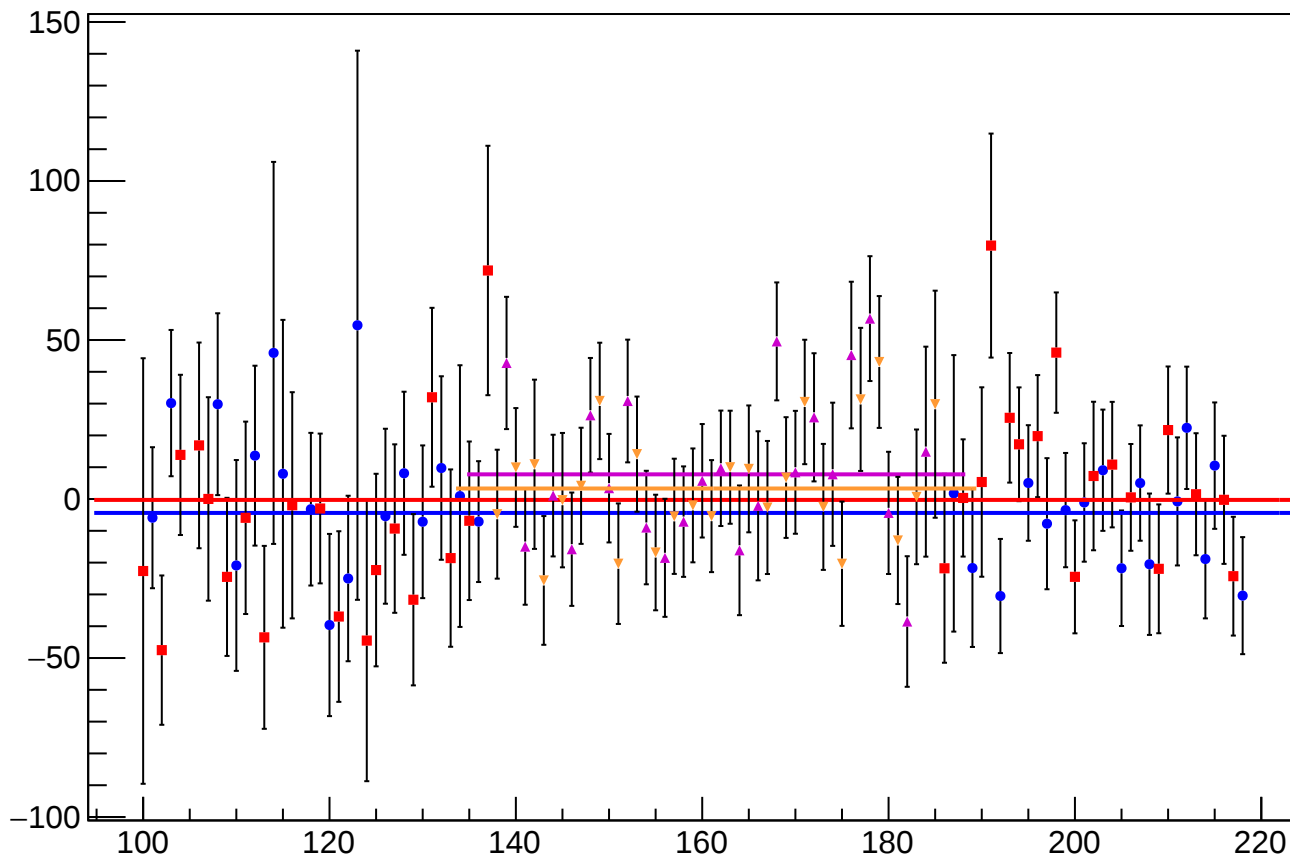
Right: 172.108 ± 0.021 $\chi^2/\text{NDF}: 5106319.8/68$

In: 176.096 ± 0.022 $\chi^2/\text{NDF}: 3810878.9/55$

Out: 183.266 ± 0.022 $\chi^2/\text{NDF}: 5023379.8/60$

All: 179.593 ± 0.016 $\chi^2/\text{NDF}: 8887131.6/116$

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -4.374 ± 3.994 χ^2/NDF : 18.5/32

Left Out: 3.307 ± 3.954 χ^2/NDF : 18.7/24

Right Out: -0.281 ± 3.958 χ^2/NDF : 39.7/35

Left In: 7.756 ± 4.061 χ^2/NDF : 34.3/22

Left: 5.472 ± 2.833 χ^2/NDF : 53.6/47

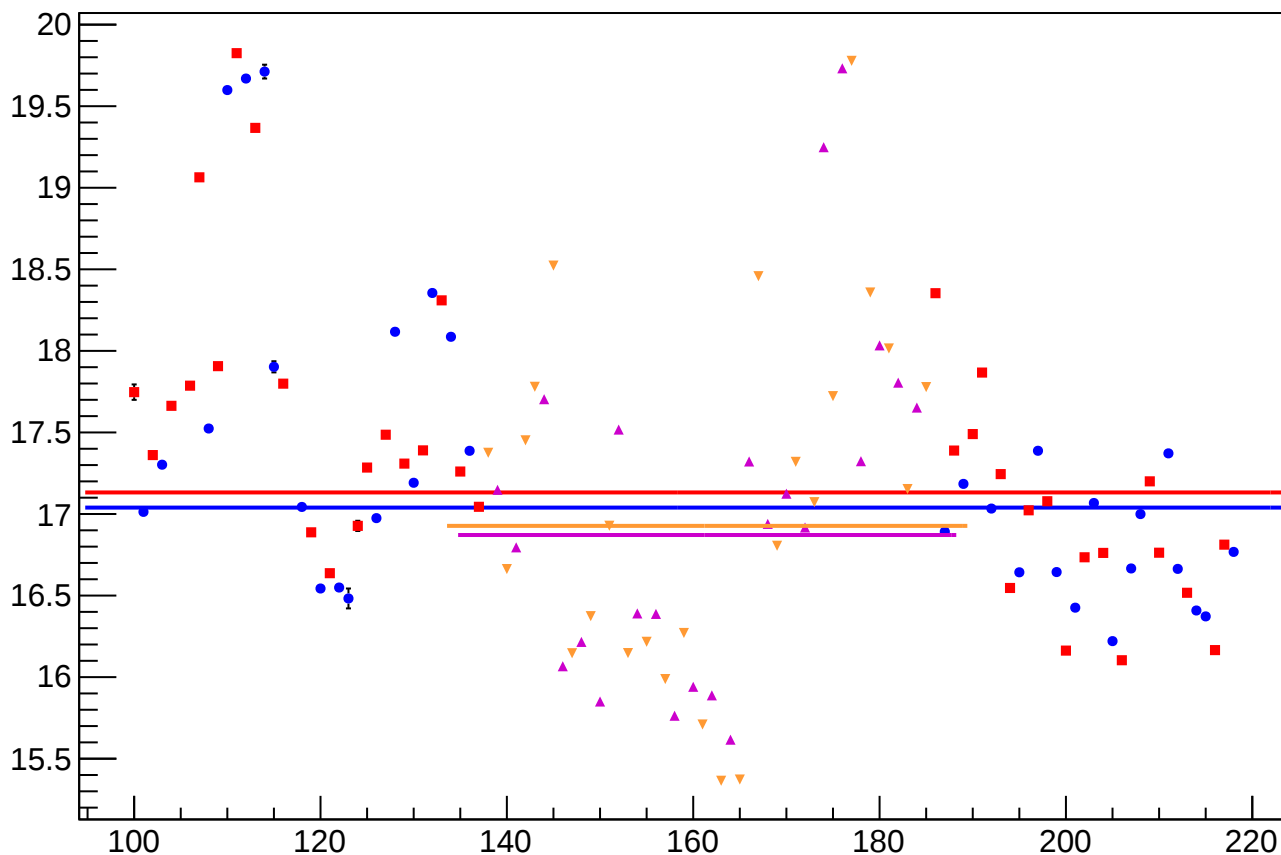
Right: -2.309 ± 2.811 χ^2/NDF : 58.8/68

In: 1.590 ± 2.847 χ^2/NDF : 57.3/55

Out: 1.515 ± 2.797 χ^2/NDF : 58.9/60

All: 1.552 ± 1.995 χ^2/NDF : 116.2/116

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 17.039 $\pm$ 0.003 χ^2 /NDF: 61751.1/32

Left Out: 16.927 $\pm$ 0.003 χ^2 /NDF:138533.2/24

Right Out: 17.132 $\pm$ 0.003 χ^2 /NDF: 75077.1/35

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

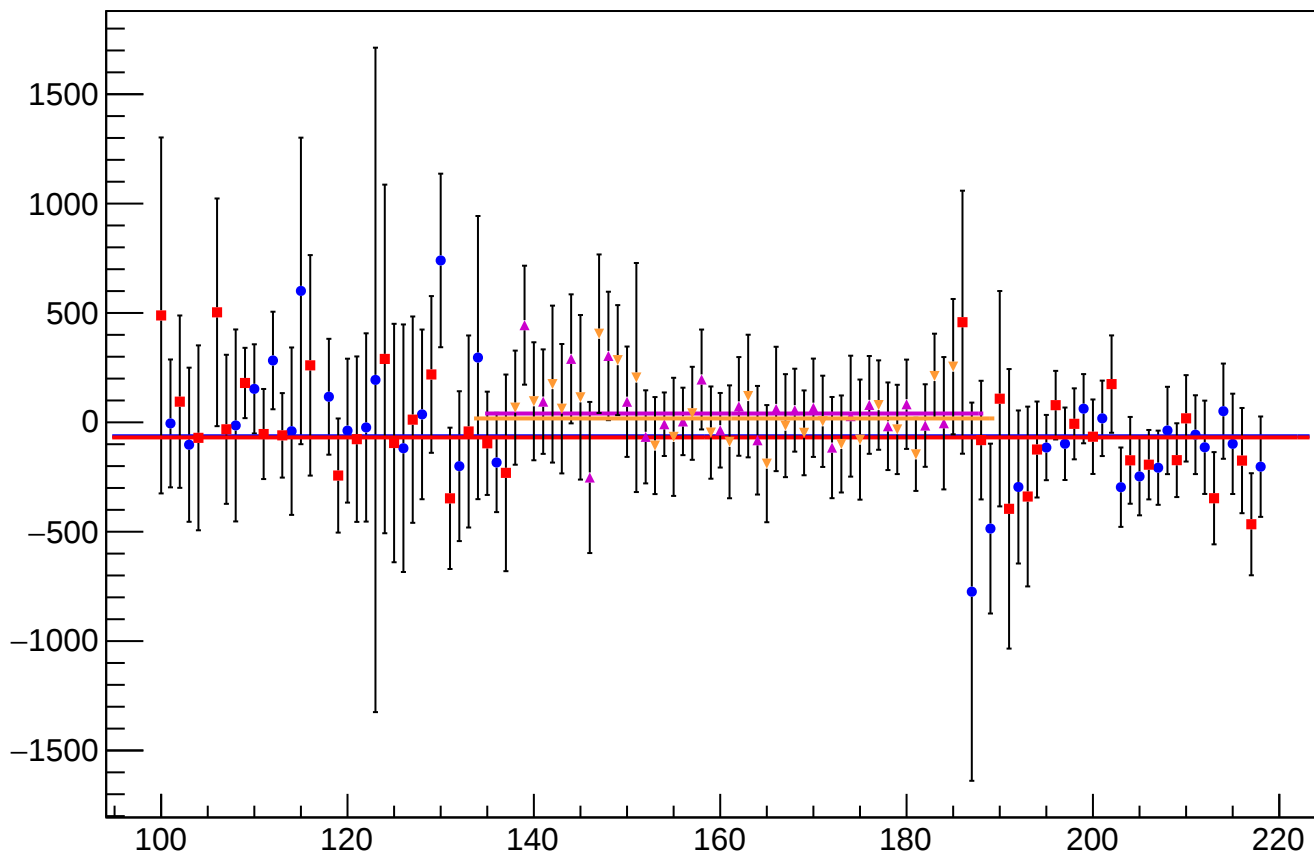
Right: 17.086 $\pm$ 0.002 χ^2 /NDF: 137373.5/68

In: 16.957 $\pm$ 0.002 χ^2 /NDF:181485.9/55

Out: 17.030 $\pm$ 0.002 χ^2 /NDF:216292.5/60

All: 16.994 $\pm$ 0.001 χ^2 /NDF: 398445.6/116

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -63.572 ± 42.307 $\chi^2/\text{NDF}: 17.4/32$

Left Out: 17.828 ± 48.547 $\chi^2/\text{NDF}: 7.5/24$

Right Out: -68.955 ± 42.161 $\chi^2/\text{NDF}: 17.1/35$

Left In: 40.355 ± 45.689 $\chi^2/\text{NDF}: 6.6/22$

Left: 29.774 ± 33.271 $\chi^2/\text{NDF}: 14.2/47$

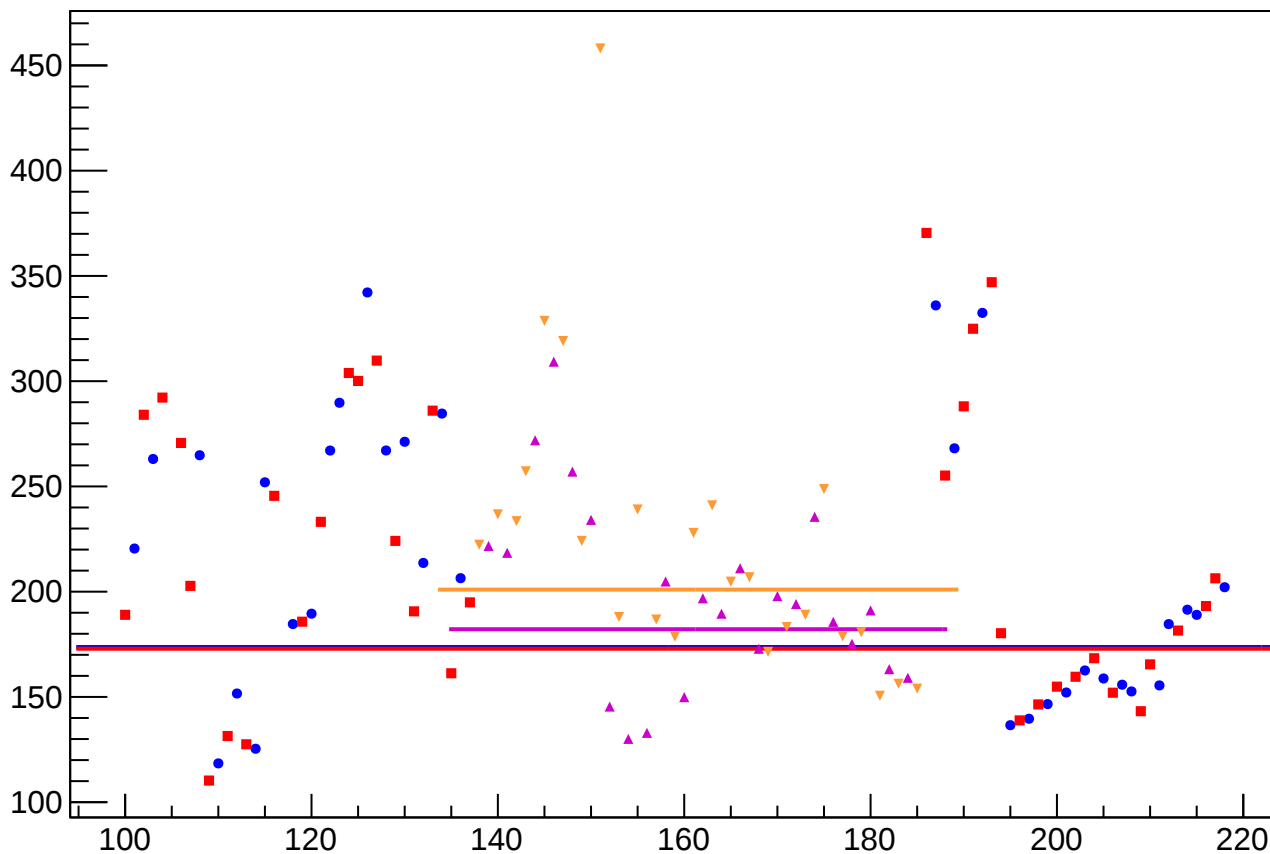
Right: -66.273 ± 29.864 $\chi^2/\text{NDF}: 34.5/68$

In: -15.597 ± 31.042 $\chi^2/\text{NDF}: 26.9/55$

Out: -31.643 ± 31.833 $\chi^2/\text{NDF}: 26.4/60$

All: -23.418 ± 22.224 $\chi^2/\text{NDF}: 53.4/116$

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 173.708 $\pm$ 0.030 χ^2 /NDF: 2188909.3/32

Left Out: 200.985 $\pm$ 0.034 χ^2 /NDF:1727291.4/24

Right Out: 172.911 $\pm$ 0.030 χ^2 /NDF: 2838609.7/35

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

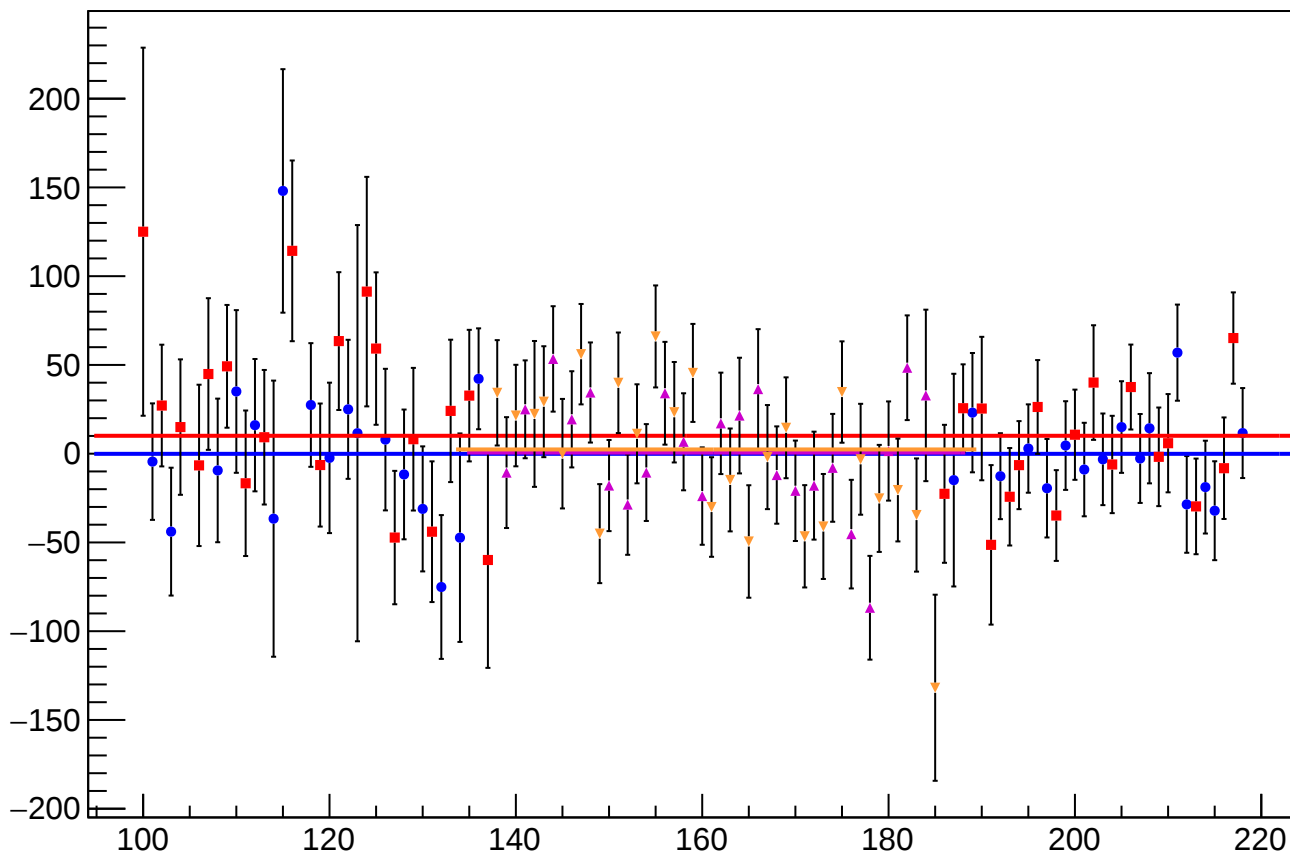
Right: 173.308 $\pm$ 0.021 χ^2 /NDF: 5027875.0/68

In: 177.609 $\pm$ 0.022 χ^2 /NDF:3761666.0/55

Out: 184.981 $\pm$ 0.023 χ^2 /NDF:4947172.1/60

All: 181.202 $\pm$ 0.016 χ^2 /NDF: 8763829.2/116

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -0.081 ± 5.608 $\chi^2/\text{NDF}: 25.1/32$

Left Out: 2.390 ± 5.980 $\chi^2/\text{NDF}: 39.1/24$

Right Out: 10.086 ± 5.533 $\chi^2/\text{NDF}: 37.7/35$

Left In: 0.641 ± 6.091 $\chi^2/\text{NDF}: 27.3/22$

Left: 1.531 ± 4.267 $\chi^2/\text{NDF}: 66.5/47$

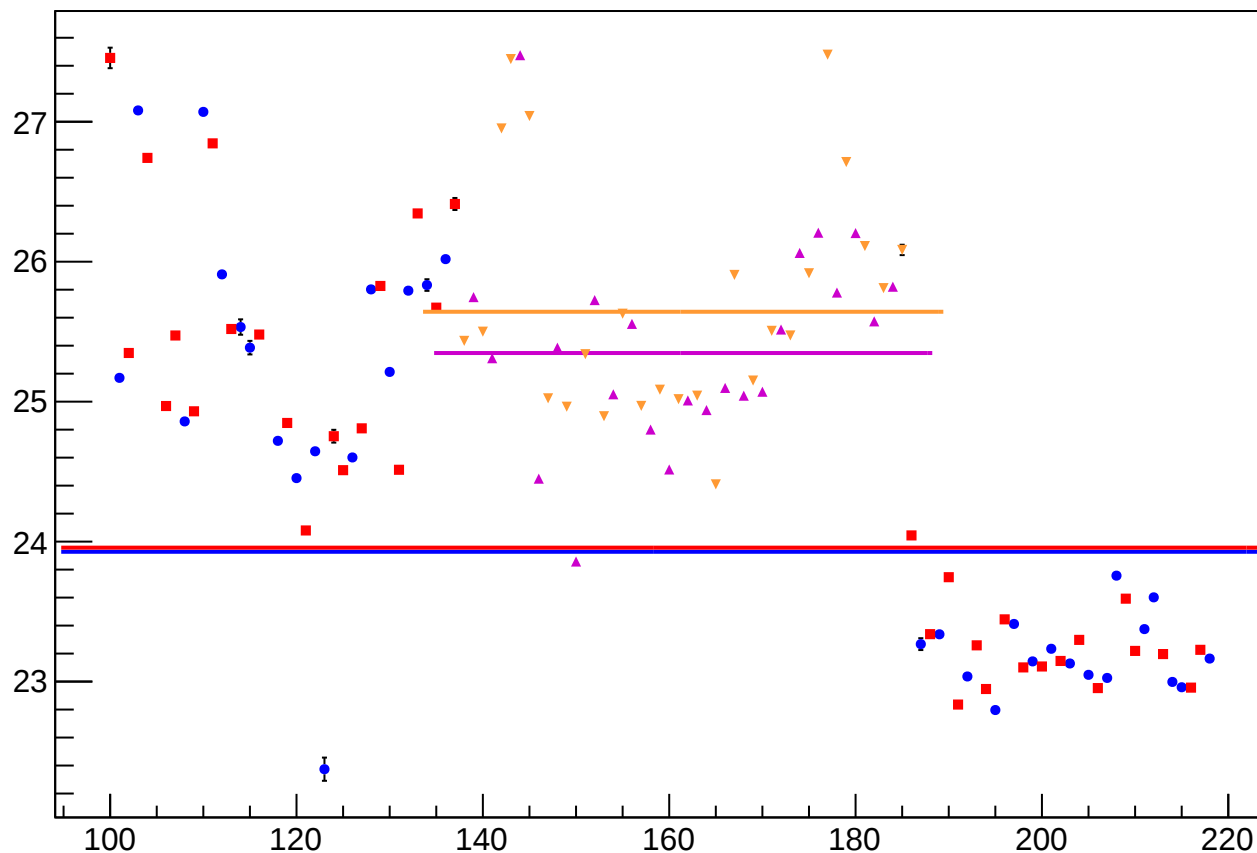
Right: 5.071 ± 3.939 $\chi^2/\text{NDF}: 64.4/68$

In: 0.250 ± 4.126 $\chi^2/\text{NDF}: 52.4/55$

Out: 6.536 ± 4.061 $\chi^2/\text{NDF}: 77.7/60$

All: 3.442 ± 2.894 $\chi^2/\text{NDF}: 131.3/116$

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 23.927 $\pm$ 0.004 χ^2 /NDF: 90616.8/32

Left Out: 25.642 $\pm$ 0.004 χ^2 /NDF:34802.2/24

Right Out: 23.957 $\pm$ 0.004 χ^2 /NDF: 84555.1/35

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

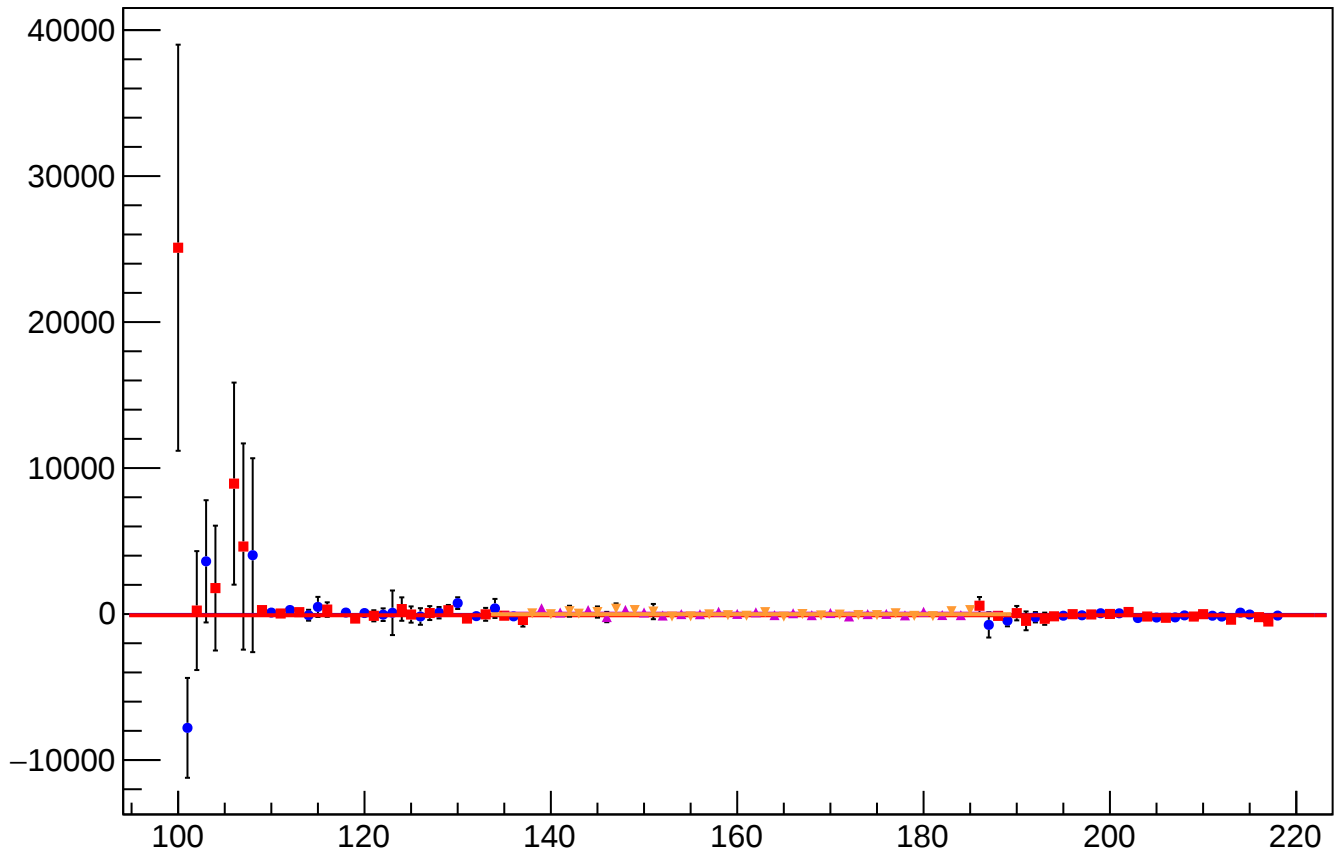
Right: 23.942 $\pm$ 0.003 χ^2 /NDF: 175199.8/68

In: 24.579 $\pm$ 0.003 χ^2 /NDF:178831.4/55

Out: 24.734 $\pm$ 0.003 χ^2 /NDF:204952.4/60

All: 24.658 $\pm$ 0.002 χ^2 /NDF: 385224.6/116

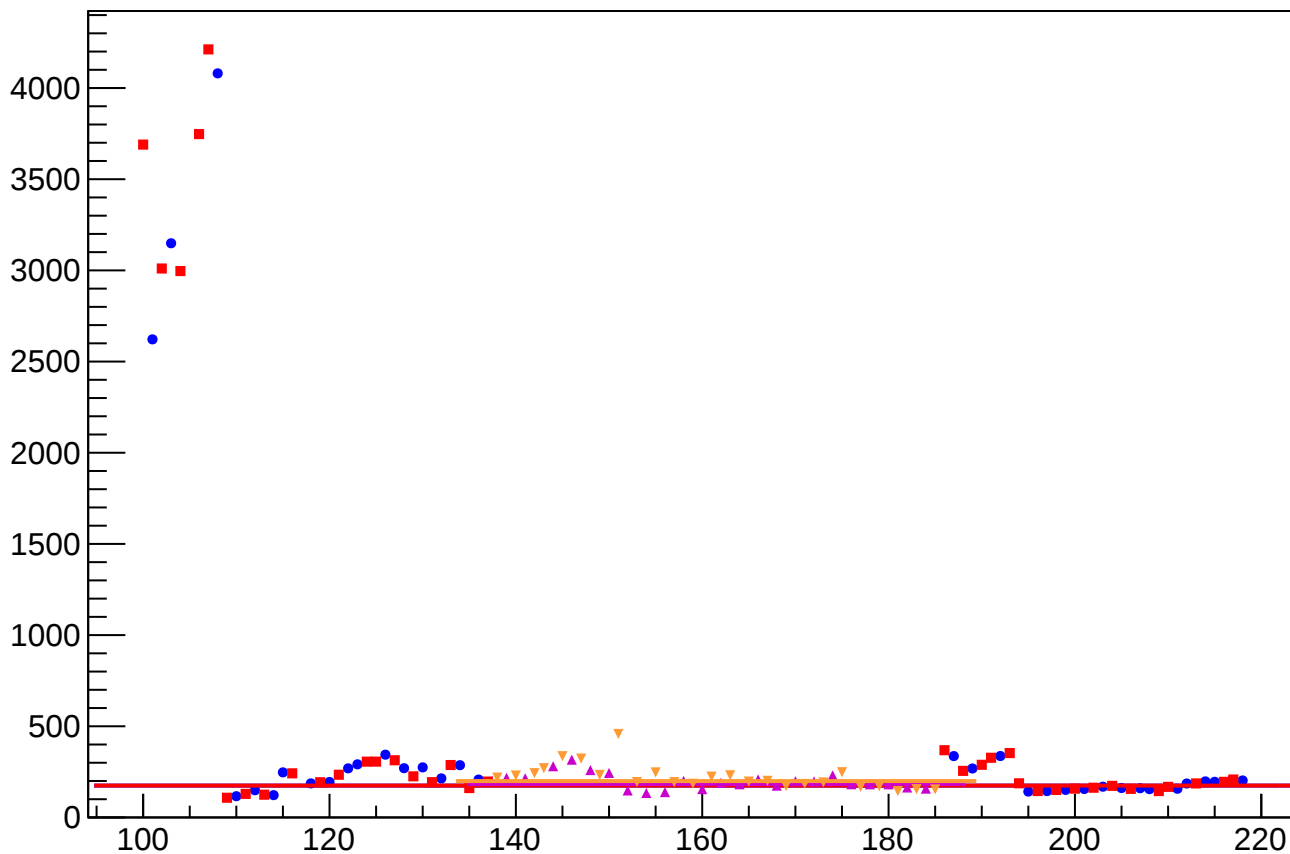
asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -59.613 ± 44.093 $\chi^2/\text{NDF}: 22.3/32$
 Left Out: -11.432 ± 48.263 $\chi^2/\text{NDF}: 8.0/24$
 Right Out: -83.356 ± 44.566 $\chi^2/\text{NDF}: 24.4/35$
 Left In: 27.098 ± 45.999 $\chi^2/\text{NDF}: 7.2/22$

Left: 8.758 ± 33.298 $\chi^2/\text{NDF}: 15.5/47$
 Right: -71.358 ± 31.344 $\chi^2/\text{NDF}: 46.9/68$
 In: -18.091 ± 31.831 $\chi^2/\text{NDF}: 31.4/55$
 Out: -50.254 ± 32.742 $\chi^2/\text{NDF}: 33.6/60$
 All: -33.718 ± 22.823 $\chi^2/\text{NDF}: 65.5/116$

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 174.678+/-0.031 χ^2/NDF : 4600755.8/32

Left Out: 199.438+/-0.034 χ^2/NDF : 1877848.7/24

Right Out: 174.748+/-0.032 χ^2/NDF : 5460579.2/35

Left In: 183.805+/-0.033 χ^2/NDF : 1412869.6/22

Left: 191.246+/-0.024 χ^2/NDF : 3400676.1/47

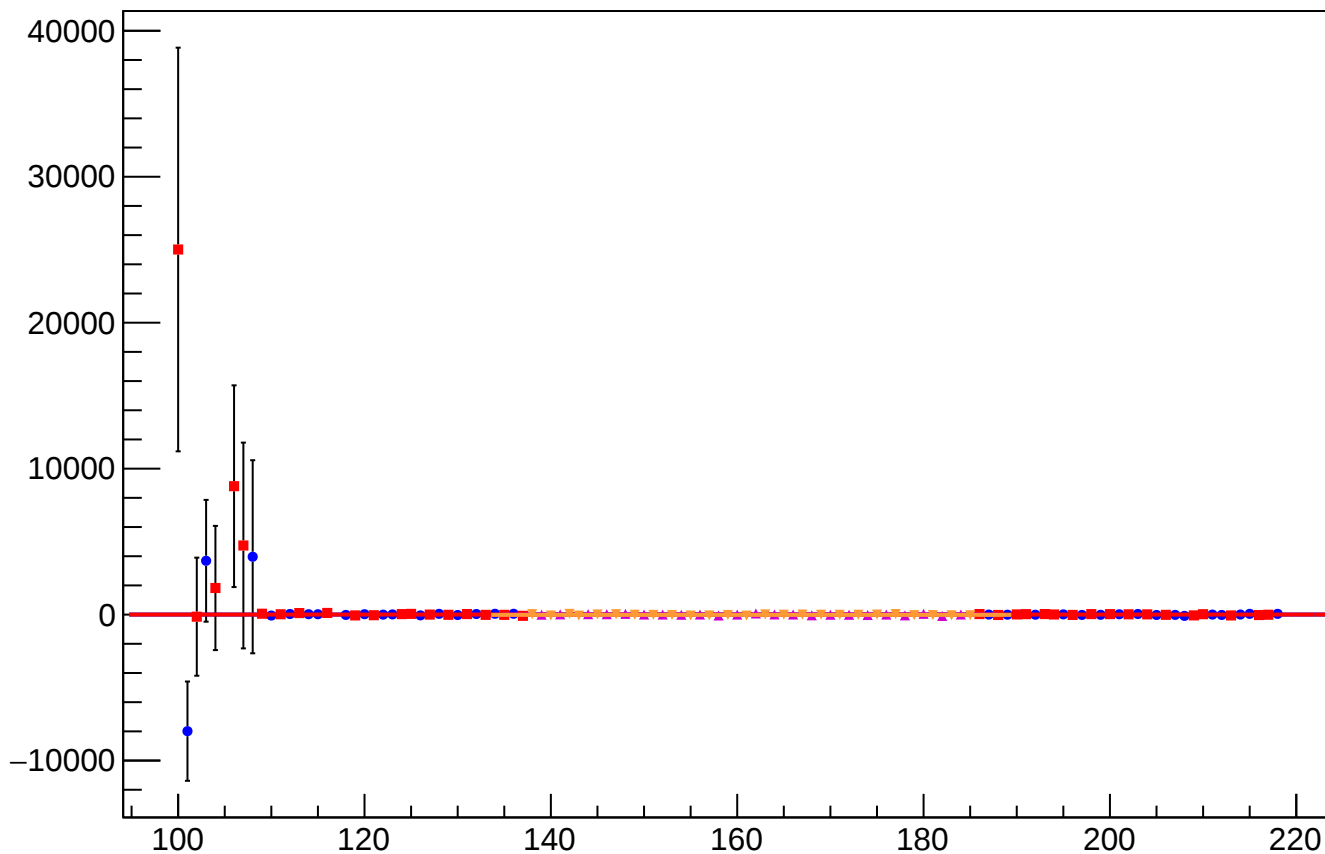
Right: 174.713+/-0.022 χ^2/NDF : 10061337.5/68

In: 179.049+/-0.023 χ^2/NDF : 6054657.1/55

Out: 186.112+/-0.023 χ^2/NDF : 7620941.6/60

All: 182.480+/-0.016 χ^2/NDF : 13723441.7/11

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 3.561+/-6.715 χ^2/NDF : 35.3/32

Left Out: -18.118+/-6.704 χ^2/NDF : 21.7/24

Right Out: 3.431+/-6.709 χ^2/NDF : 39.3/35

Left In: 1.267+/-6.908 χ^2/NDF : 32.0/22

Left: -8.716+/-4.811 χ^2/NDF : 57.8/47

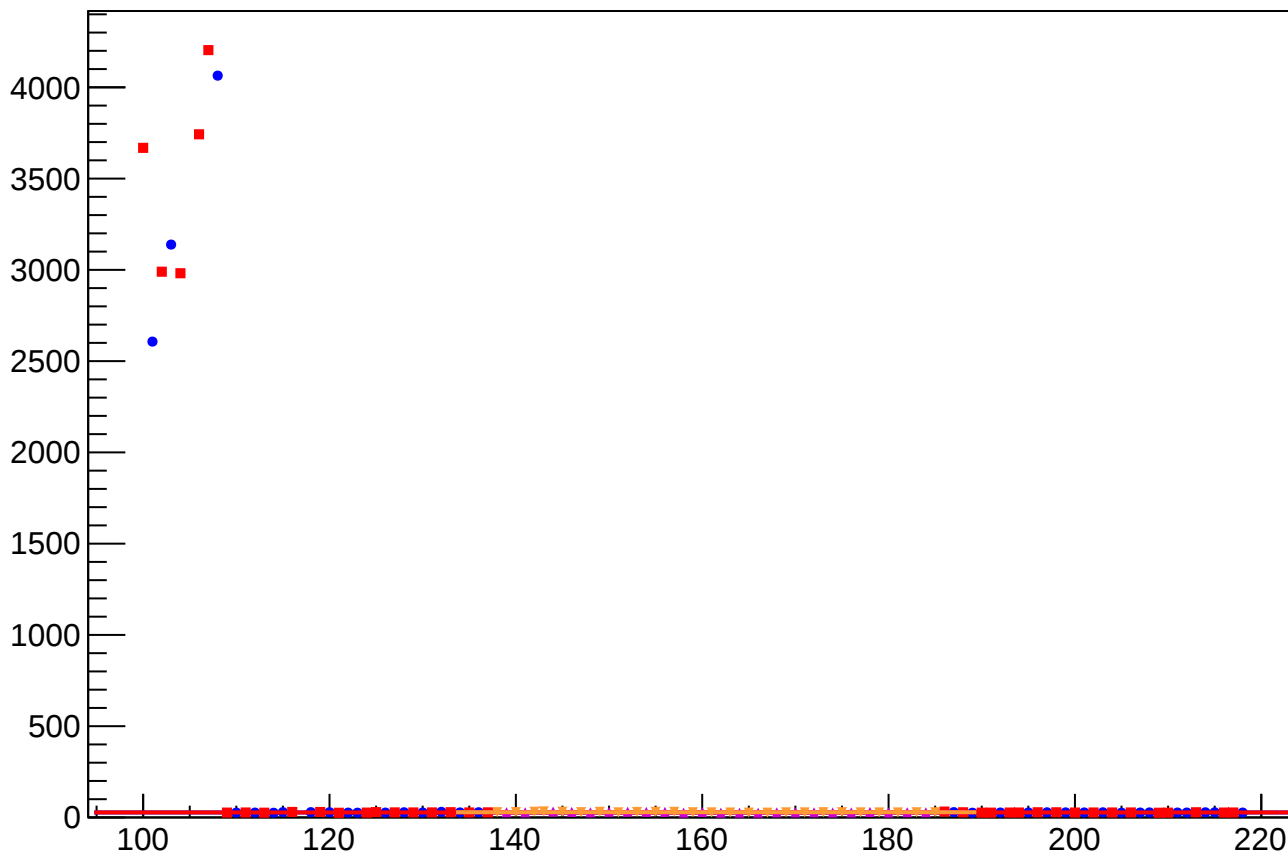
Right: 3.496+/-4.746 χ^2/NDF : 74.7/68

In: 2.447+/-4.815 χ^2/NDF : 67.4/55

Out: -7.352+/-4.742 χ^2/NDF : 66.2/60

All: -2.527+/-3.379 χ^2/NDF : 135.8/116

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 27.452+/-0.005 χ^2/NDF : 3045216.4/32

Left Out: 28.694+/-0.005 χ^2/NDF :110466.9/24

Right Out: 27.429+/-0.005 χ^2/NDF : 3514635.7/35

Left In: 28.677+/-0.005 χ^2/NDF :123814.4/22

Left: 28.685+/-0.003 χ^2/NDF : 234287.5/47

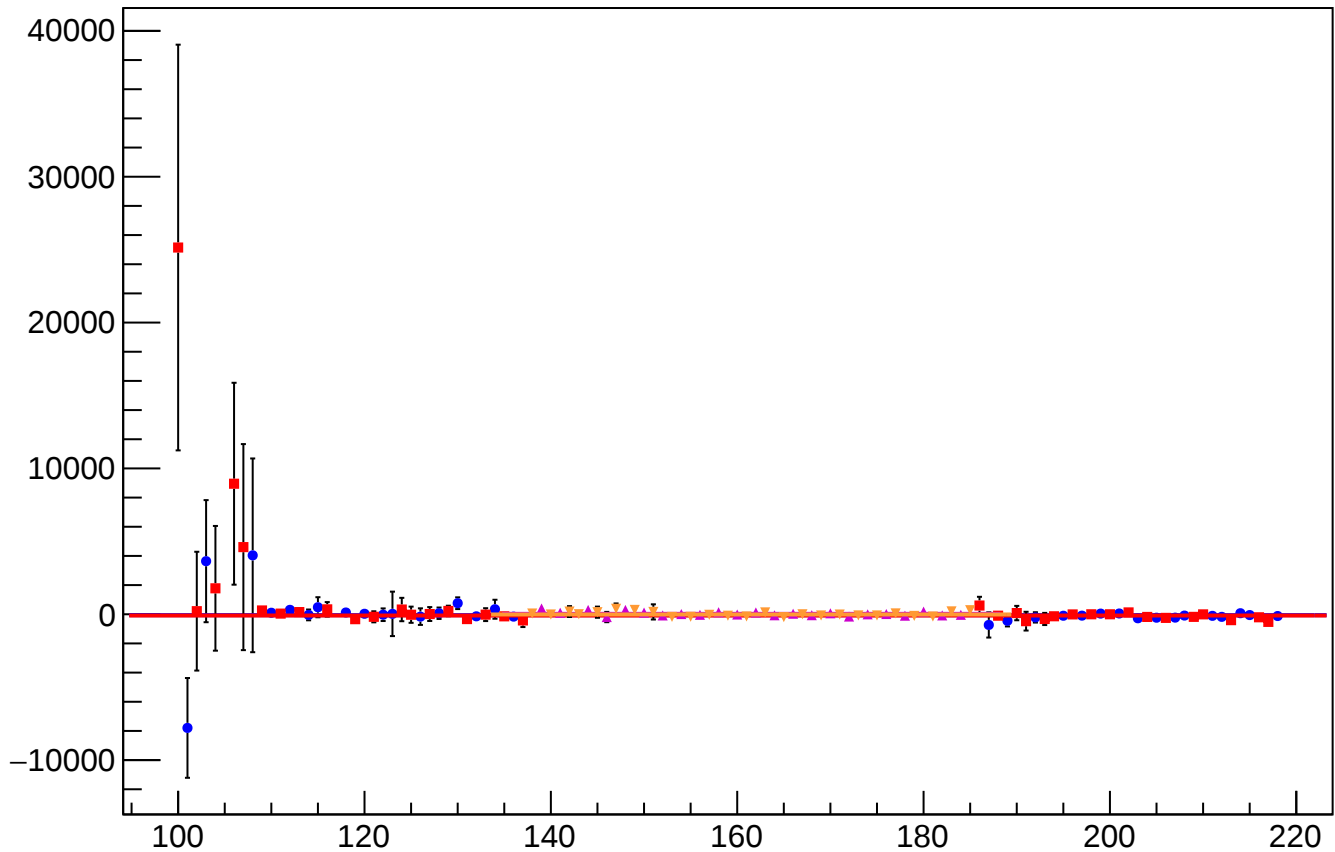
Right: 27.441+/-0.003 χ^2/NDF : 6559864.3/68

In: 28.047+/-0.003 χ^2/NDF :3201344.3/55

Out: 28.062+/-0.003 χ^2/NDF :3660678.9/60

All: 28.055+/-0.002 χ^2/NDF : 6862032.5/116

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -60.882 ± 43.958 χ^2/NDF : 22.5/32

Left Out: -13.878 ± 48.155 χ^2/NDF : 8.8/24

Right Out: -85.949 ± 44.437 χ^2/NDF : 25.5/35

Left In: 27.286 ± 45.907 χ^2/NDF : 7.5/22

Left: 7.688 ± 33.228 χ^2/NDF : 16.7/47

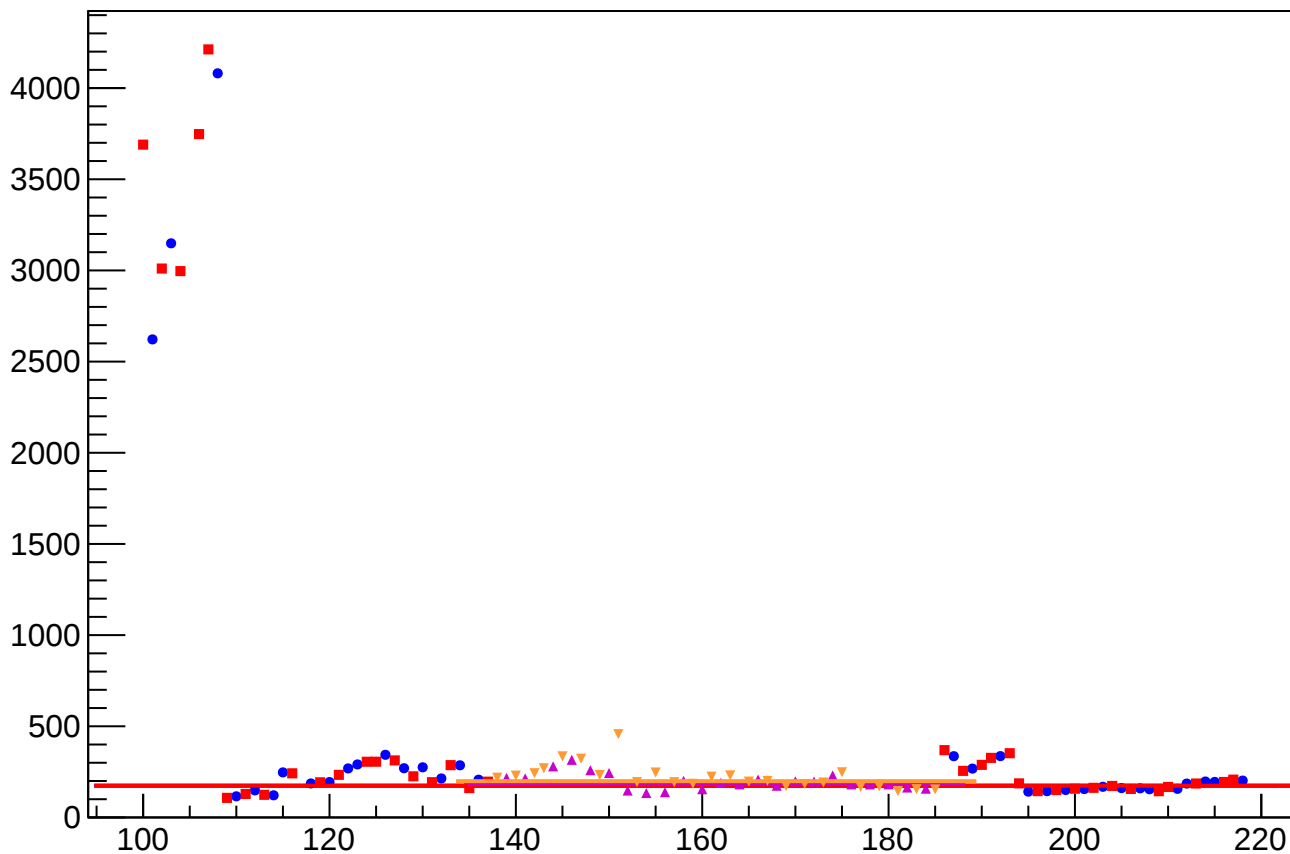
Right: -73.280 ± 31.251 χ^2/NDF : 48.2/68

In: -18.709 ± 31.750 χ^2/NDF : 31.9/55

Out: -52.803 ± 32.657 χ^2/NDF : 35.5/60

All: -35.276 ± 22.765 χ^2/NDF : 68.0/116

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 174.109 $\pm$ 0.031 χ^2 /NDF: 4614203.8/32

Left Out: 198.997 $\pm$ 0.034 χ^2 /NDF: 1877636.0/24

Right Out: 174.192 $\pm$ 0.031 χ^2 /NDF: 5478468.3/35

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

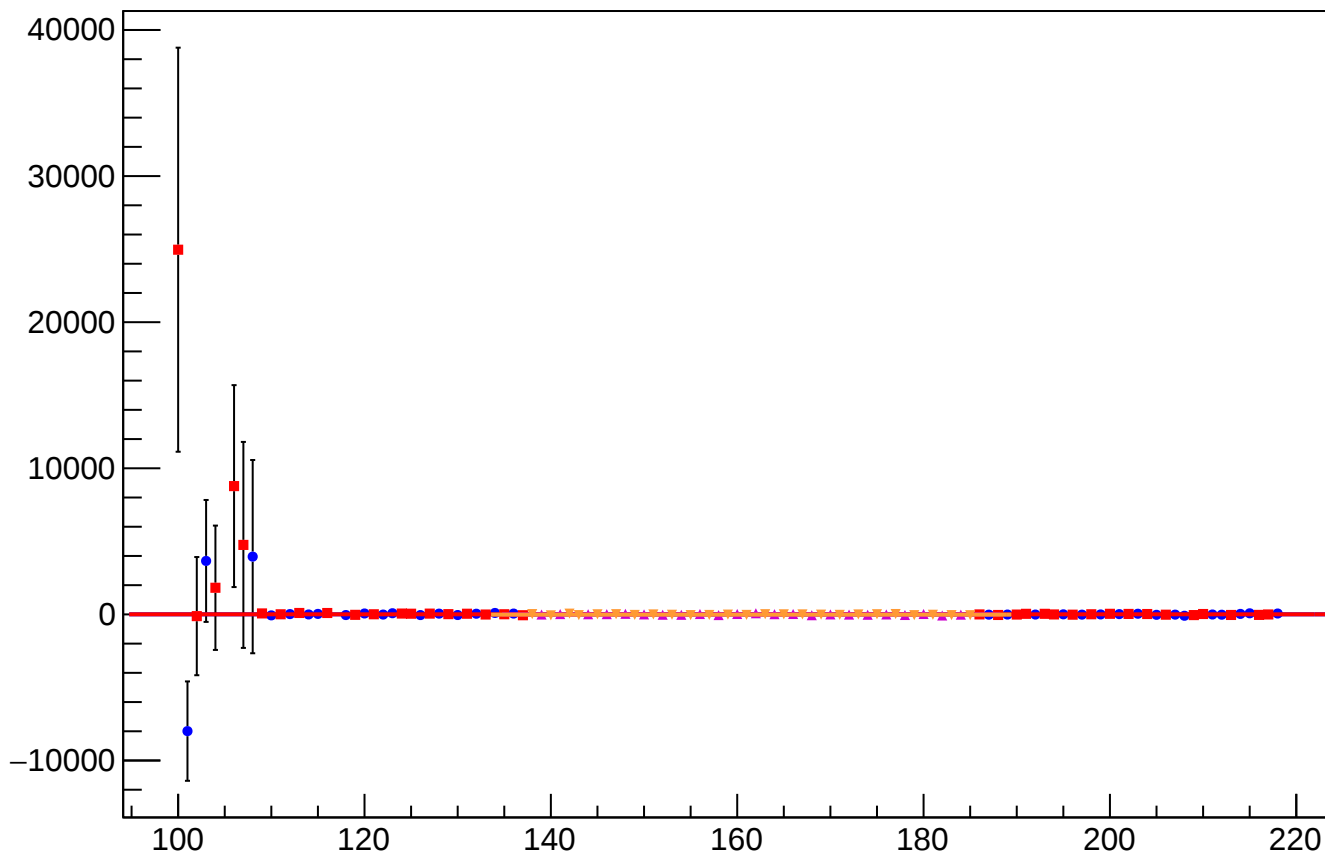
Right: 174.150 $\pm$ 0.022 χ^2 /NDF: 10092675.6/68

In: 178.573 $\pm$ 0.022 χ^2 /NDF: 6069667.7/55

Out: 185.599 $\pm$ 0.023 χ^2 /NDF: 7642713.7/60

All: 181.987 $\pm$ 0.016 χ^2 /NDF: 13759979.6/119

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 4.897+/-6.670 χ^2/NDF : 44.8/32

Left Out: -15.829+/-6.733 χ^2/NDF : 16.5/24

Right Out: 6.633+/-6.675 χ^2/NDF : 34.5/35

Left In: -0.498+/-6.937 χ^2/NDF : 26.1/22

Left: -8.392+/-4.831 χ^2/NDF : 45.1/47

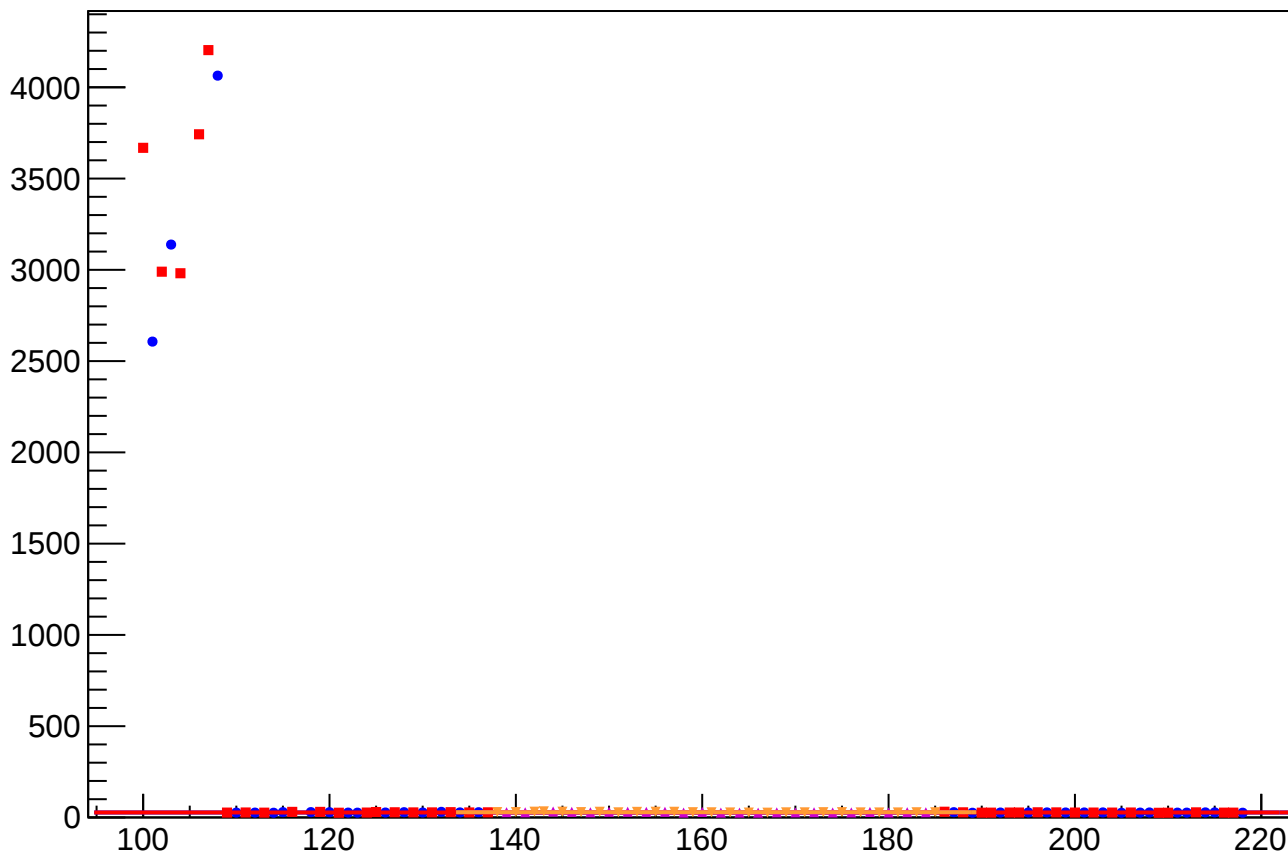
Right: 5.764+/-4.718 χ^2/NDF : 79.3/68

In: 2.305+/-4.808 χ^2/NDF : 71.2/55

Out: -4.500+/-4.740 χ^2/NDF : 56.6/60

All: -1.146+/-3.376 χ^2/NDF : 128.8/116

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 27.265 $\pm$ 0.005 χ^2 /NDF: 3055610.8/32

Left Out: 28.814 $\pm$ 0.005 χ^2 /NDF: 122153.6/24

Right Out: 27.286 $\pm$ 0.005 χ^2 /NDF: 3521305.0/35

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

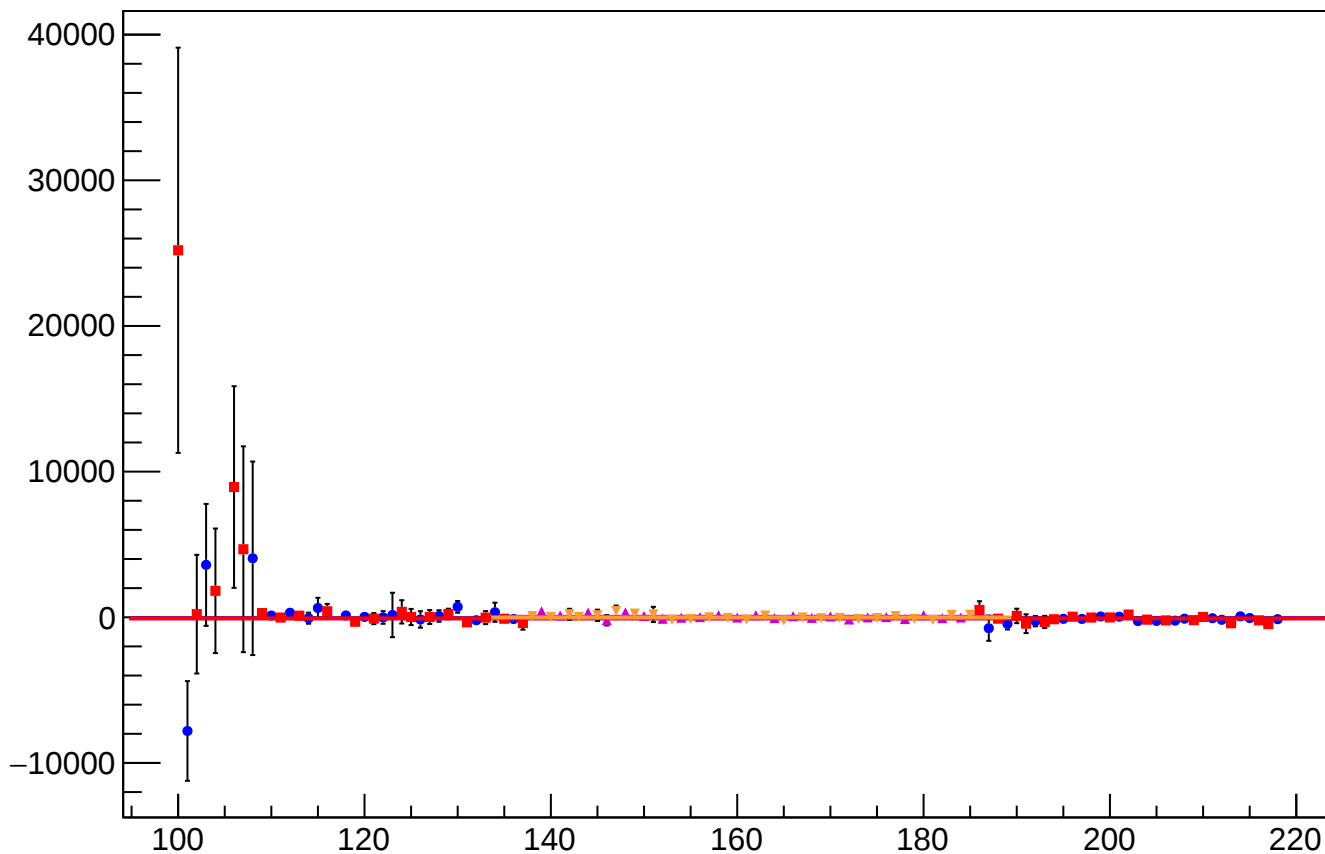
Right: 27.275 $\pm$ 0.003 χ^2 /NDF: 6576925.8/68

In: 28.001 $\pm$ 0.003 χ^2 /NDF: 3234607.8/55

Out: 28.043 $\pm$ 0.003 χ^2 /NDF: 3695432.0/60

All: 28.023 $\pm$ 0.002 χ^2 /NDF: 6930118.6/116

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -60.159 ± 44.248 χ^2/NDF : 22.7/32

Left Out: -13.966 ± 48.735 χ^2/NDF : 8.1/24

Right Out: -77.239 ± 44.756 χ^2/NDF : 24.3/35

Left In: 31.477 ± 46.483 χ^2/NDF : 7.8/22

Left: 9.830 ± 33.637 χ^2/NDF : 16.4/47

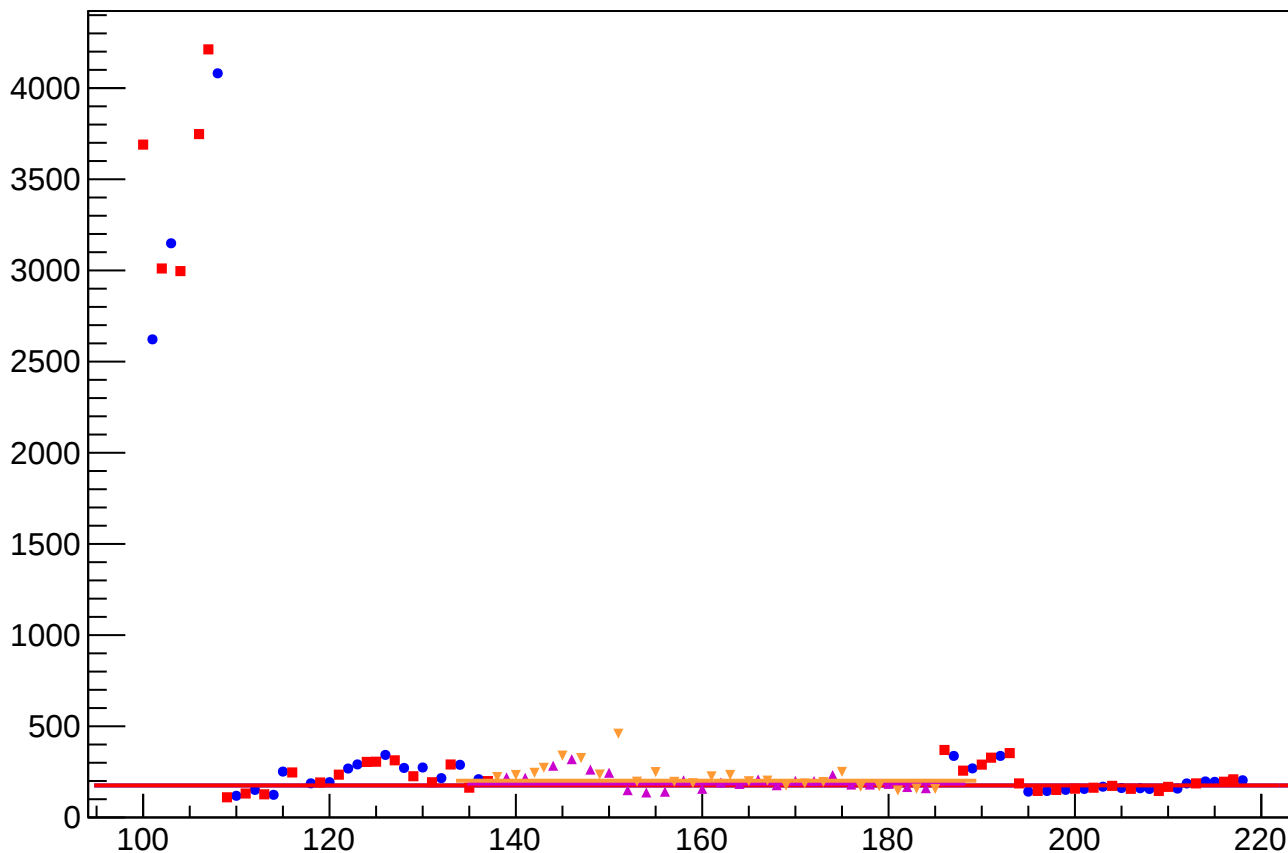
Right: -68.602 ± 31.466 χ^2/NDF : 47.0/68

In: -16.597 ± 32.049 χ^2/NDF : 32.6/55

Out: -48.291 ± 32.964 χ^2/NDF : 33.3/60

All: -31.998 ± 22.979 χ^2/NDF : 66.3/116

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 175.351+/-0.031 χ^2/NDF : 4578989.9/32

Left Out: 201.503+/-0.034 χ^2/NDF : 1854905.1/24

Right Out: 175.633+/-0.032 χ^2/NDF : 5418123.9/35

Left In: 185.878+/-0.033 χ^2/NDF : 1380877.6/22

Left: 193.321+/-0.024 χ^2/NDF : 3343425.2/47

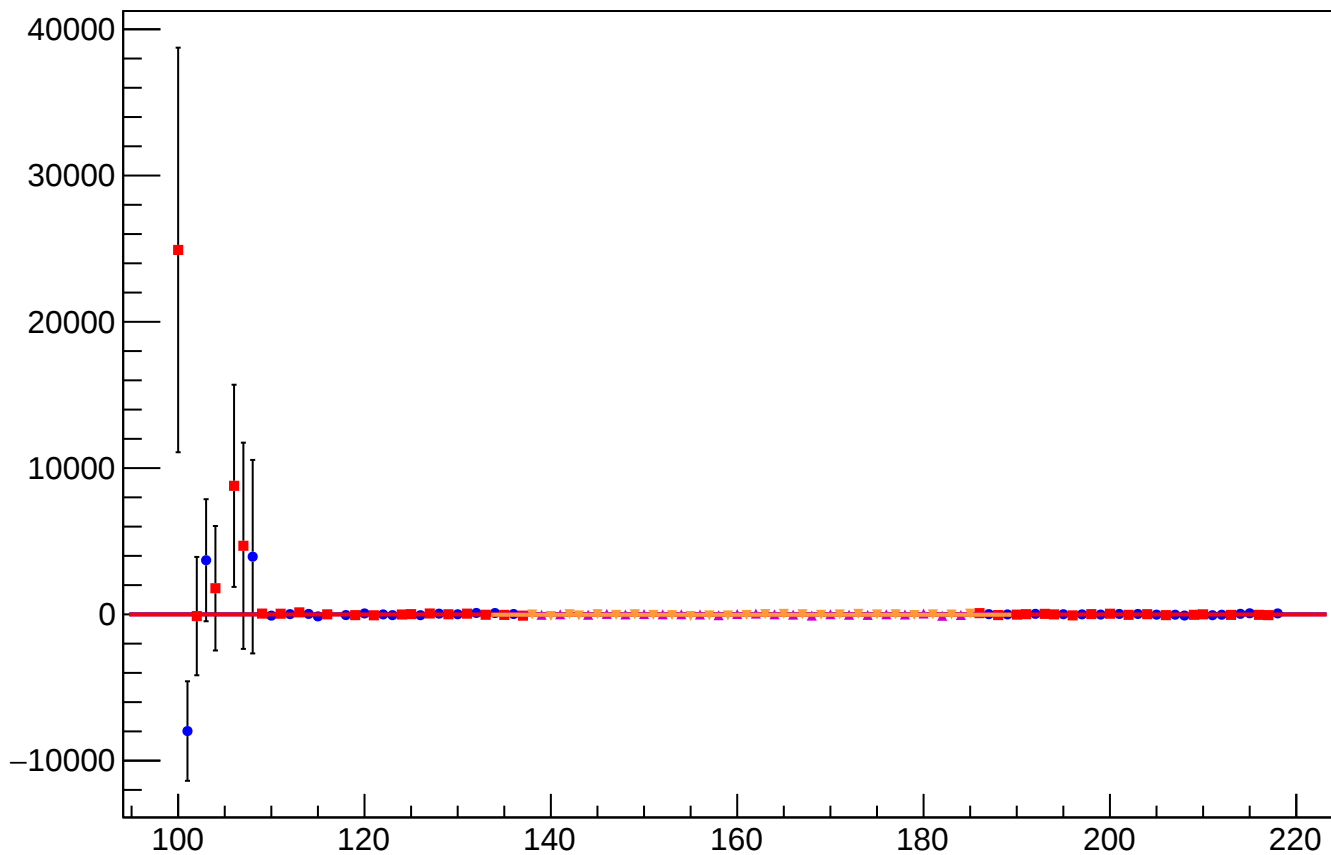
Right: 175.490+/-0.022 χ^2/NDF : 9997153.9/68

In: 180.356+/-0.023 χ^2/NDF : 6013685.2/55

Out: 187.469+/-0.023 χ^2/NDF : 7578752.5/60

All: 183.812+/-0.016 χ^2/NDF : 13640309.3/117

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 5.844+/-8.139 χ^2/NDF : 36.7/32

Left Out: -24.144+/-8.076 χ^2/NDF : 24.9/24

Right Out: -6.270+/-8.146 χ^2/NDF : 37.9/35

Left In: -5.924+/-8.340 χ^2/NDF : 21.0/22

Left: -15.326+/-5.802 χ^2/NDF : 48.4/47

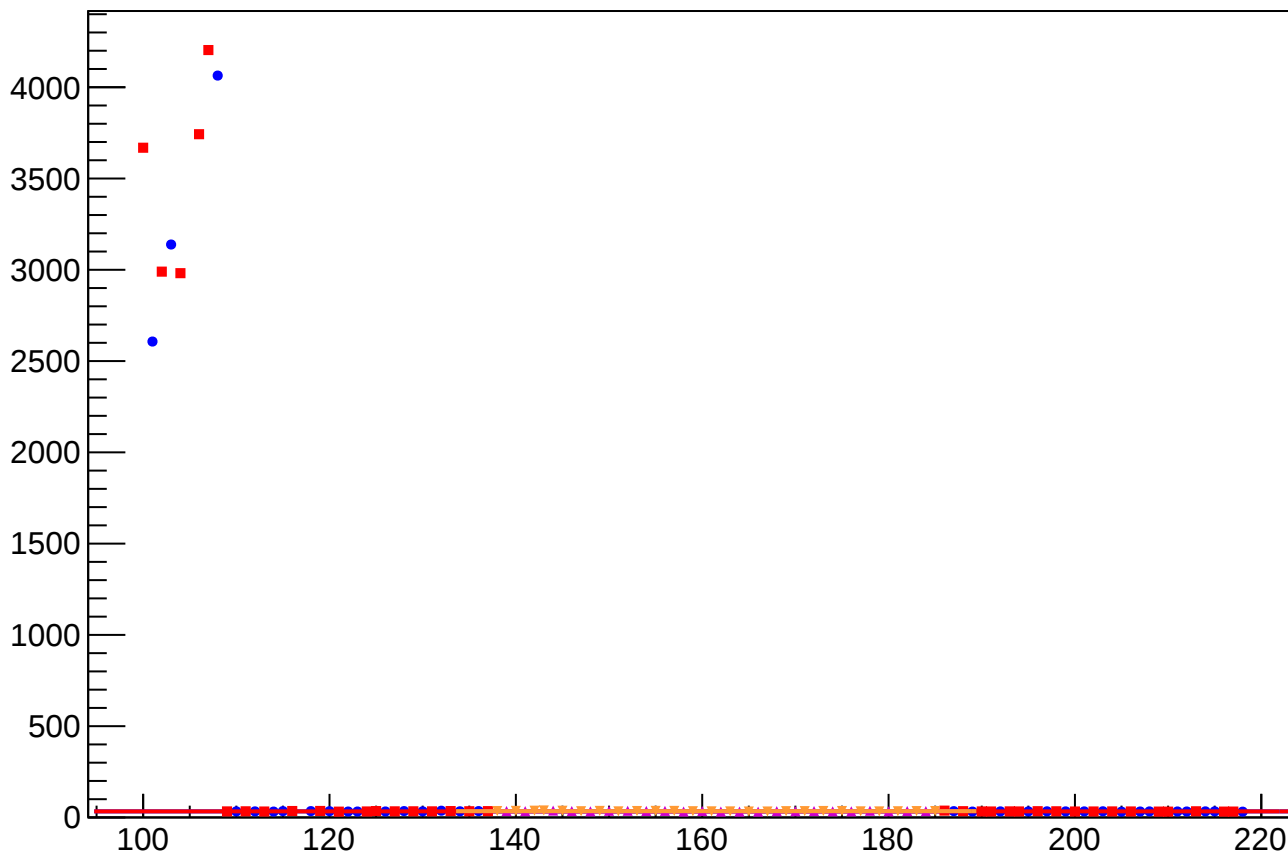
Right: -0.208+/-5.757 χ^2/NDF : 75.7/68

In: 0.103+/-5.825 χ^2/NDF : 58.7/55

Out: -15.283+/-5.735 χ^2/NDF : 65.2/60

All: -7.709+/-4.087 χ^2/NDF : 127.5/116

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 33.291 $\pm$ 0.006 χ^2 /NDF: 3024428.9/32

Left Out: 34.617 $\pm$ 0.006 χ^2 /NDF: 57868.4/24

Right Out: 33.346 $\pm$ 0.006 χ^2 /NDF: 3478486.2/35

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

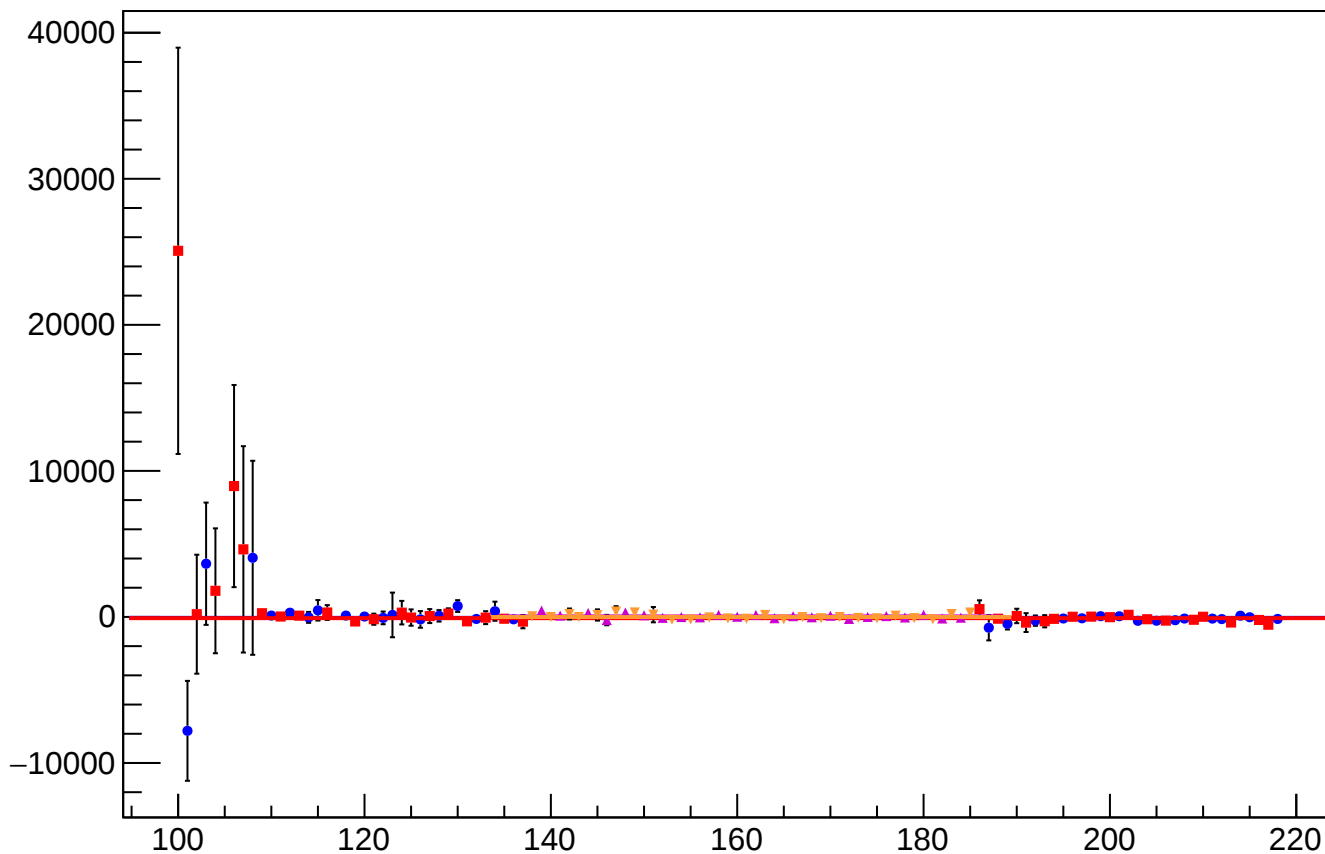
Right: 33.318 $\pm$ 0.004 χ^2 /NDF: 6502960.6/68

In: 33.969 $\pm$ 0.004 χ^2 /NDF: 3112764.3/55

Out: 33.987 $\pm$ 0.004 χ^2 /NDF: 3560944.6/60

All: 33.978 $\pm$ 0.003 χ^2 /NDF: 6673718.3/116

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -63.837 ± 44.123 χ^2/NDF : 22.4/32

Left Out: -7.558 ± 48.662 χ^2/NDF : 8.8/24

Right Out: -83.496 ± 44.592 χ^2/NDF : 23.5/35

Left In: 34.977 ± 46.421 χ^2/NDF : 7.1/22

Left: 14.712 ± 33.589 χ^2/NDF : 16.3/47

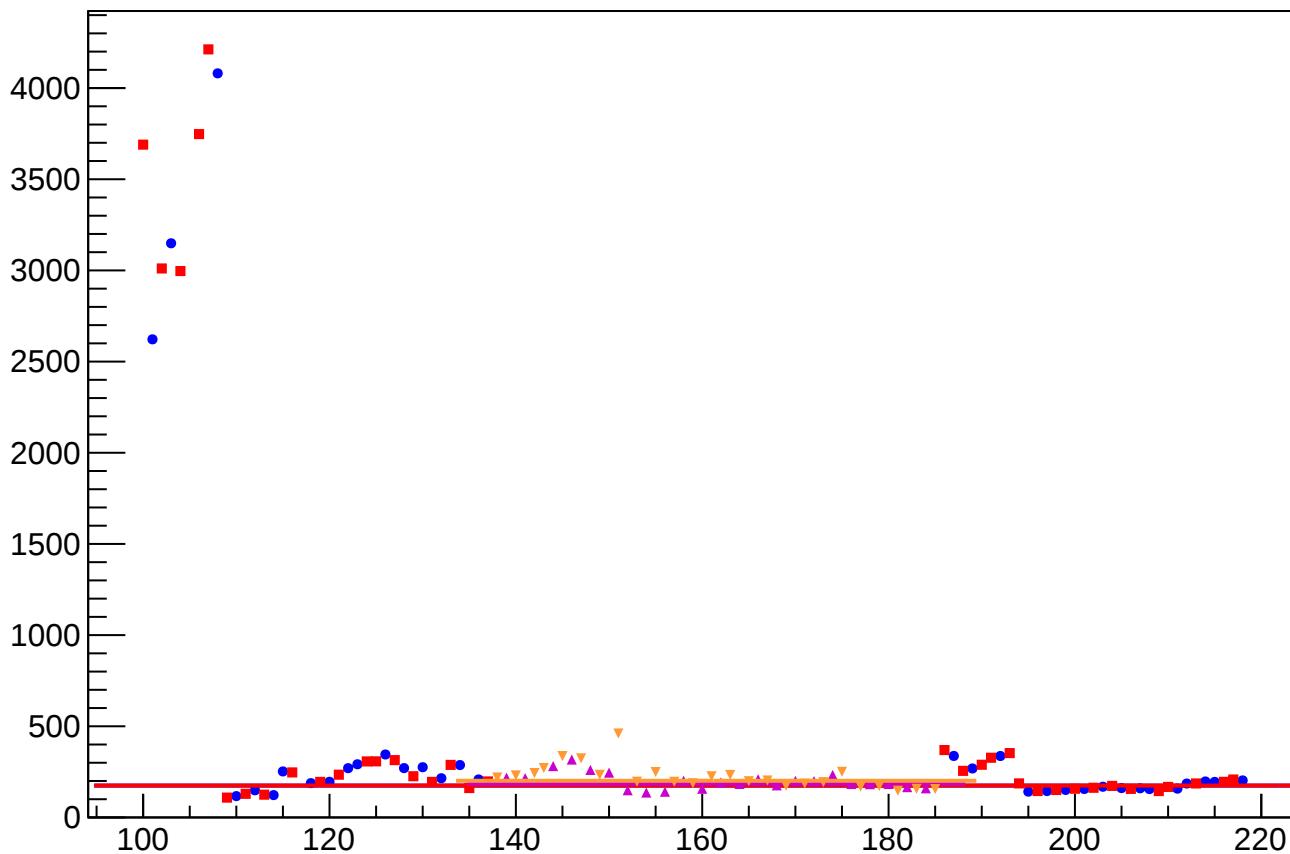
Right: -73.562 ± 31.364 χ^2/NDF : 46.1/68

In: -16.936 ± 31.981 χ^2/NDF : 31.9/55

Out: -48.835 ± 32.876 χ^2/NDF : 33.6/60

All: -32.445 ± 22.924 χ^2/NDF : 66.0/116

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 174.780+/-0.031 χ^2/NDF : 4608734.3/32

Left Out: 201.198+/-0.034 χ^2/NDF : 1848437.4/24

Right Out: 174.845+/-0.032 χ^2/NDF : 5466573.8/35

Left In: 185.627+/-0.033 χ^2/NDF : 1371411.2/22

Left: 193.046+/-0.024 χ^2/NDF : 3327061.1/47

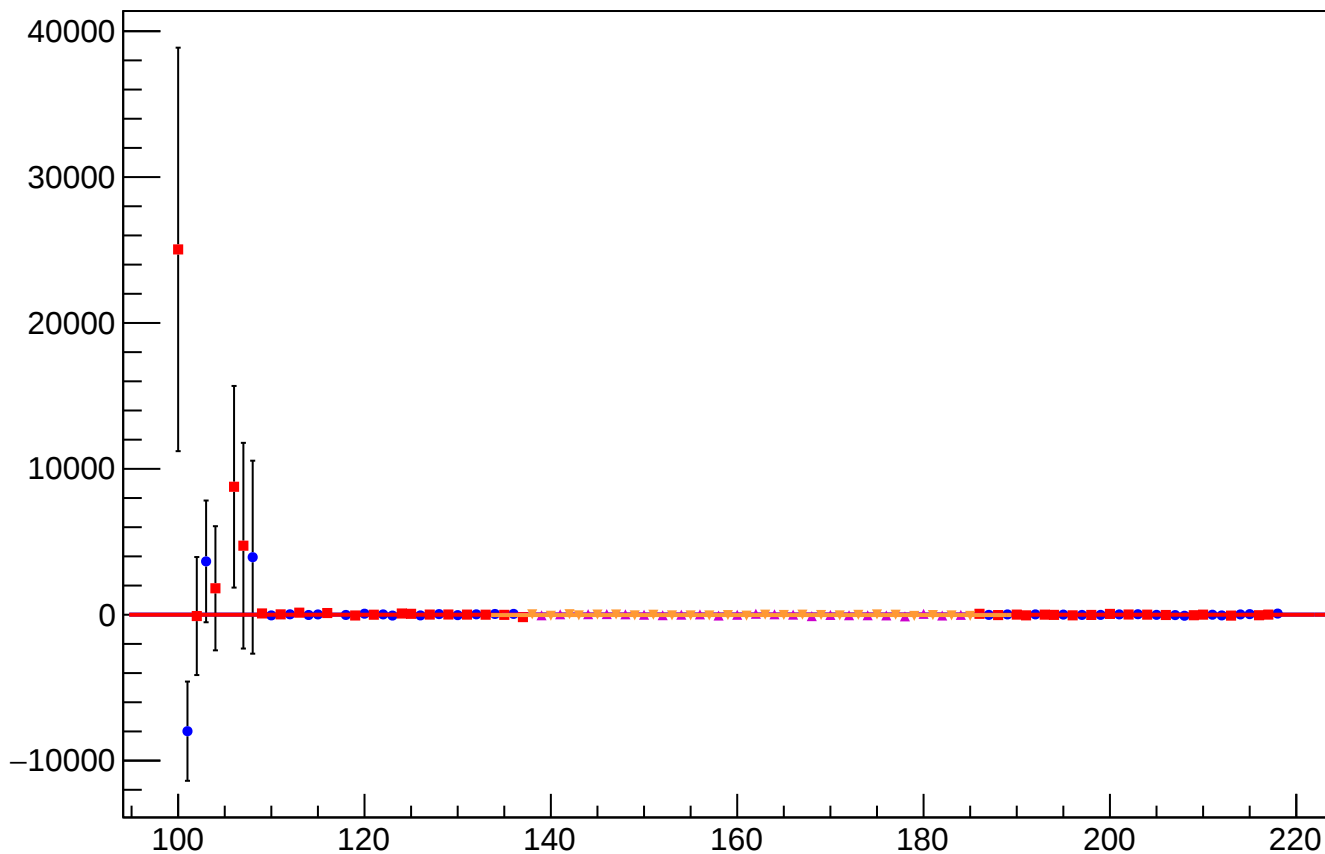
Right: 174.812+/-0.022 χ^2/NDF : 10075310.2/68

In: 179.929+/-0.023 χ^2/NDF : 6037515.8/55

Out: 186.874+/-0.023 χ^2/NDF : 7633857.5/60

All: 183.305+/-0.016 χ^2/NDF : 13717226.2/11

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 8.831+/-7.360 χ^2/NDF : 30.8/32

Left Out: -23.320+/-7.352 χ^2/NDF :18.3/24

Right Out: 1.061+/-7.367 χ^2/NDF : 42.6/35

Left In: -6.386+/-7.577 χ^2/NDF :38.7/22

Left: -15.108+/-5.276 χ^2/NDF : 59.6/47

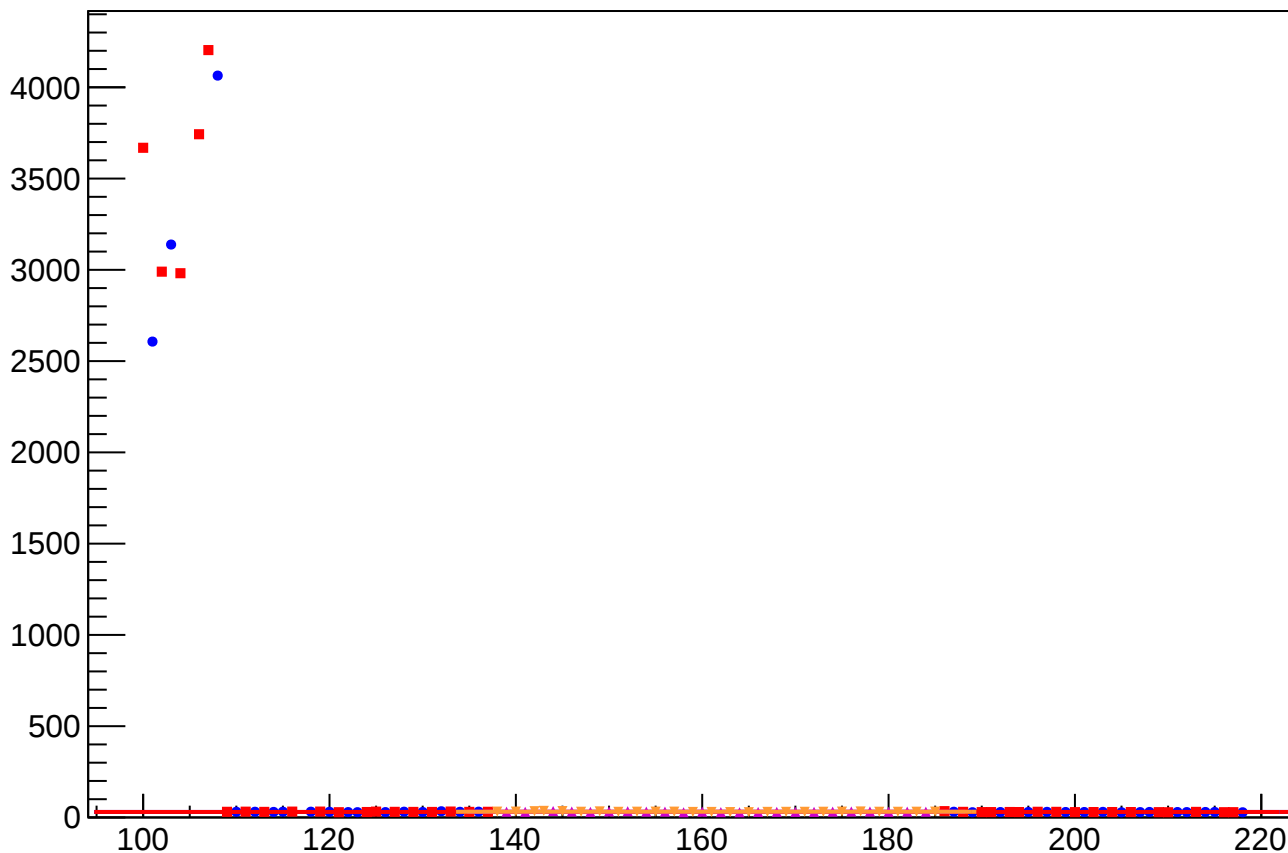
Right: 4.950+/-5.207 χ^2/NDF : 73.9/68

In: 1.444+/-5.279 χ^2/NDF :71.6/55

Out: -11.154+/-5.204 χ^2/NDF :66.4/60

All: -4.946+/-3.706 χ^2/NDF : 140.9/116

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 30.093+/-0.005 χ^2/NDF : 3044985.2/32

Left Out: 31.488+/-0.005 χ^2/NDF :81938.2/24

Right Out: 30.132+/-0.005 χ^2/NDF : 3498713.4/35

Left In: 31.475+/-0.005 χ^2/NDF :87797.5/22

Left: 31.482+/-0.004 χ^2/NDF : 169738.8/47

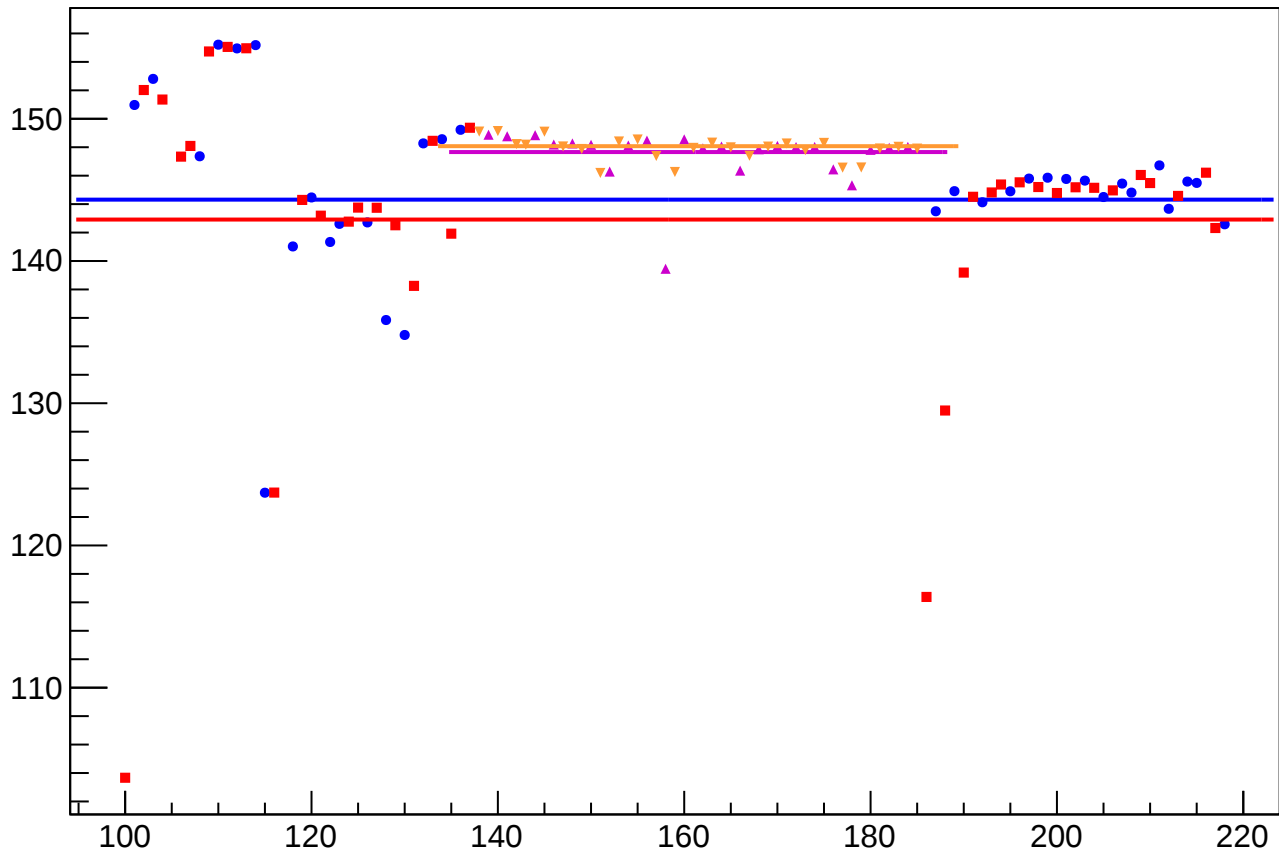
Right: 30.112+/-0.004 χ^2/NDF : 6543726.6/68

In: 30.764+/-0.004 χ^2/NDF :3167034.6/55

Out: 30.812+/-0.004 χ^2/NDF :3614627.3/60

All: 30.788+/-0.003 χ^2/NDF : 6781743.8/116

yield_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: 144.315+/-0.000 χ^2/NDF : 3512298998.4/32

Left Out: 148.074+/-0.000 χ^2/NDF : 65673678.9/24

Right Out: 142.915+/-0.000 χ^2/NDF : 7470333395.7/35

Left In: 147.660+/-0.000 χ^2/NDF : 343892338.9/22

Left: 147.875+/-0.000 χ^2/NDF : 417177881.5/47

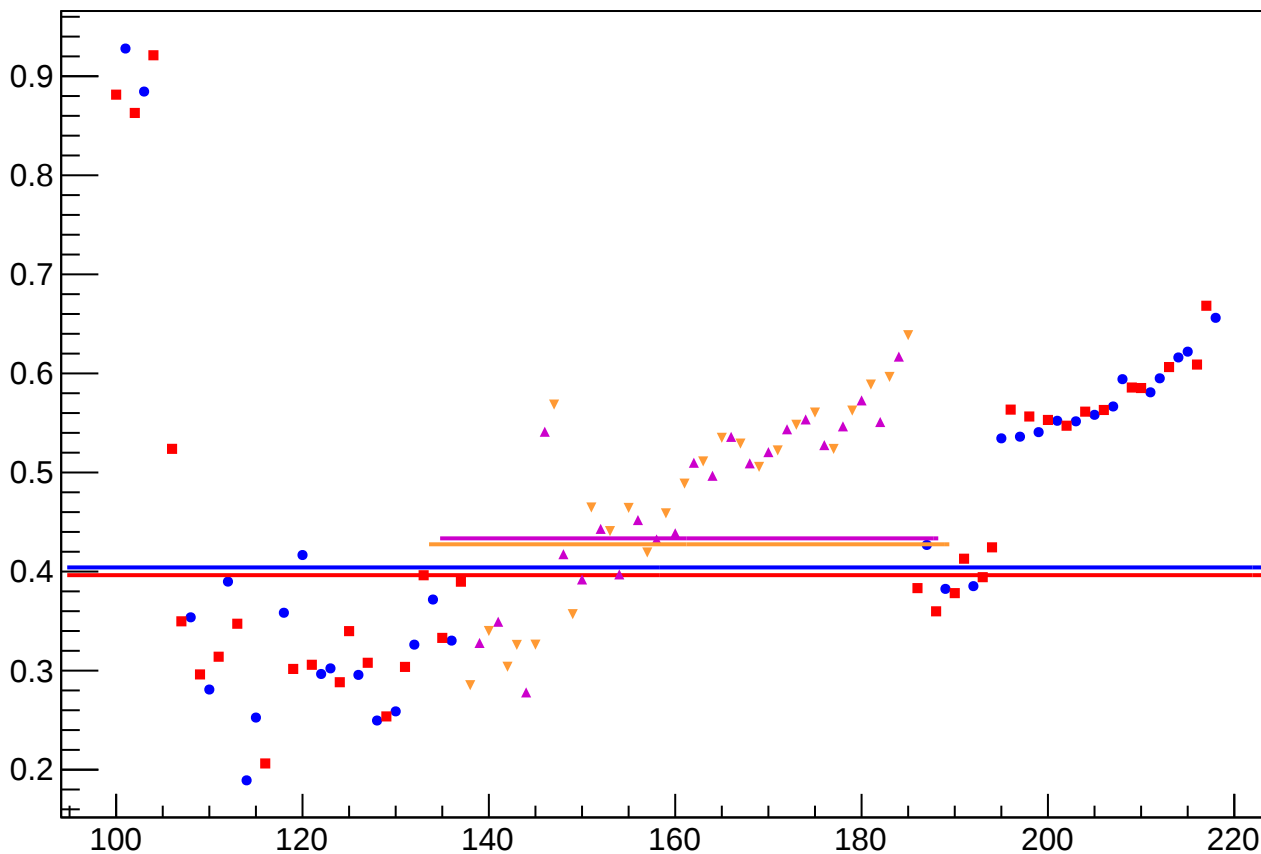
Right: 143.587+/-0.000 χ^2/NDF : 11078937631.0/68

In: 145.908+/-0.000 χ^2/NDF : 4359606185.7/55

Out: 145.365+/-0.000 χ^2/NDF : 8830107688.2/60

All: 145.626+/-0.000 χ^2/NDF : 13217303847.0

yield_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 0.404+/-0.000 χ^2/NDF : 3851238.8/32

Left Out: 0.428+/-0.000 χ^2/NDF :1892802.8/24

Right Out: 0.396+/-0.000 χ^2/NDF : 3511664.7/35

Left In: 0.434+/-0.000 χ^2/NDF :1479367.0/22

Left: 0.430+/-0.000 χ^2/NDF : 3375366.2/47

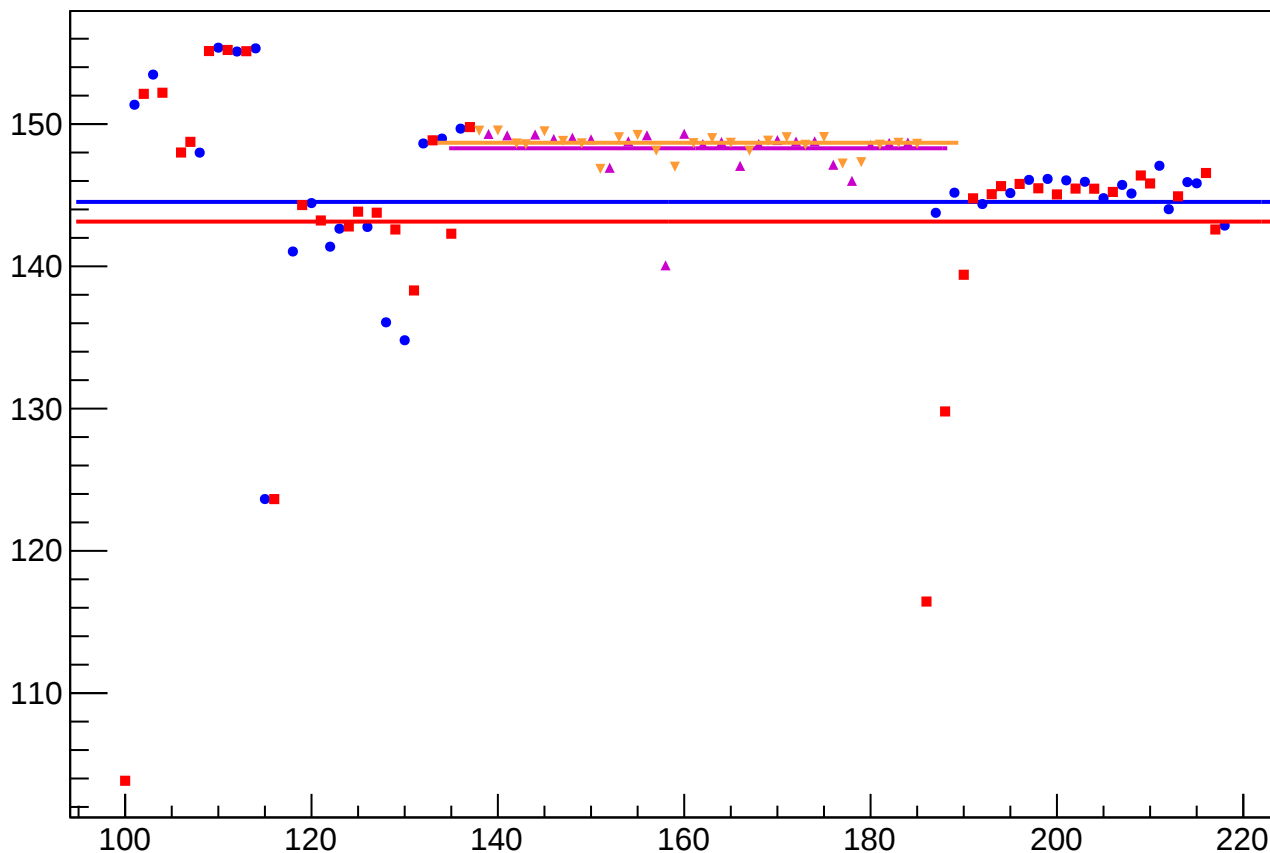
Right: 0.400+/-0.000 χ^2/NDF : 7368920.9/68

In: 0.418+/-0.000 χ^2/NDF :5407963.6/55

Out: 0.411+/-0.000 χ^2/NDF :5498897.3/60

All: 0.415+/-0.000 χ^2/NDF : 10916009.8/116

yield_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: 144.528+/-0.000 χ^2/NDF : 3562830038.0/32

Left Out: 148.687+/-0.000 χ^2/NDF : 52285197.5/24

Right Out: 143.145+/-0.000 χ^2/NDF : 7423065562.6/35

Left In: 148.298+/-0.000 χ^2/NDF : 332527463.6/22

Left: 148.500+/-0.000 χ^2/NDF : 391414535.1/47

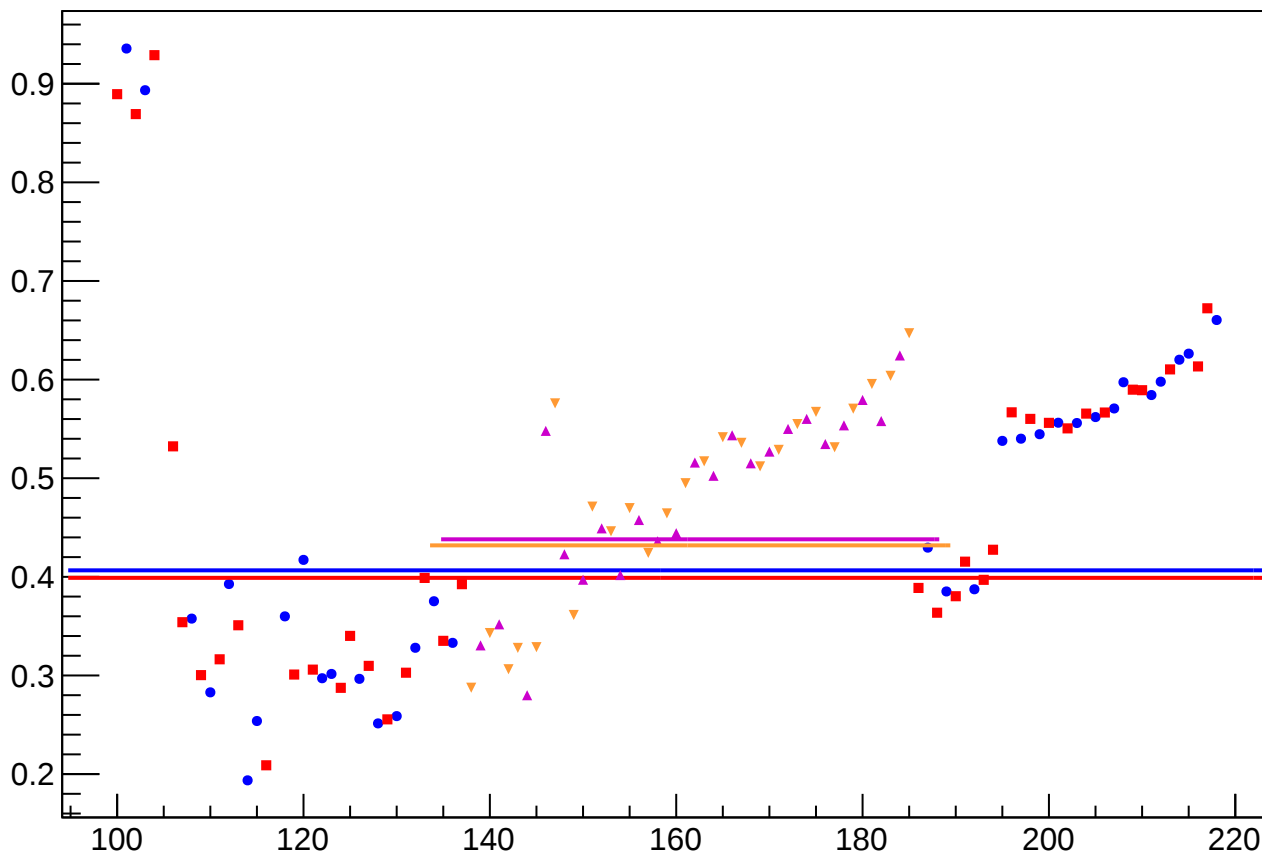
Right: 143.809+/-0.000 χ^2/NDF : 11078745204.5/68

In: 146.314+/-0.000 χ^2/NDF : 4523575911.7/55

Out: 145.766+/-0.000 χ^2/NDF : 8942781555.2/60

All: 146.030+/-0.000 χ^2/NDF : 13494039141.1

yield_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 0.407 $\pm$ 0.000 χ^2/NDF : 3859553.2/32

Left Out: 0.432 $\pm$ 0.000 χ^2/NDF : 1924979.0/24

Right Out: 0.399 $\pm$ 0.000 χ^2/NDF : 3515637.9/35

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

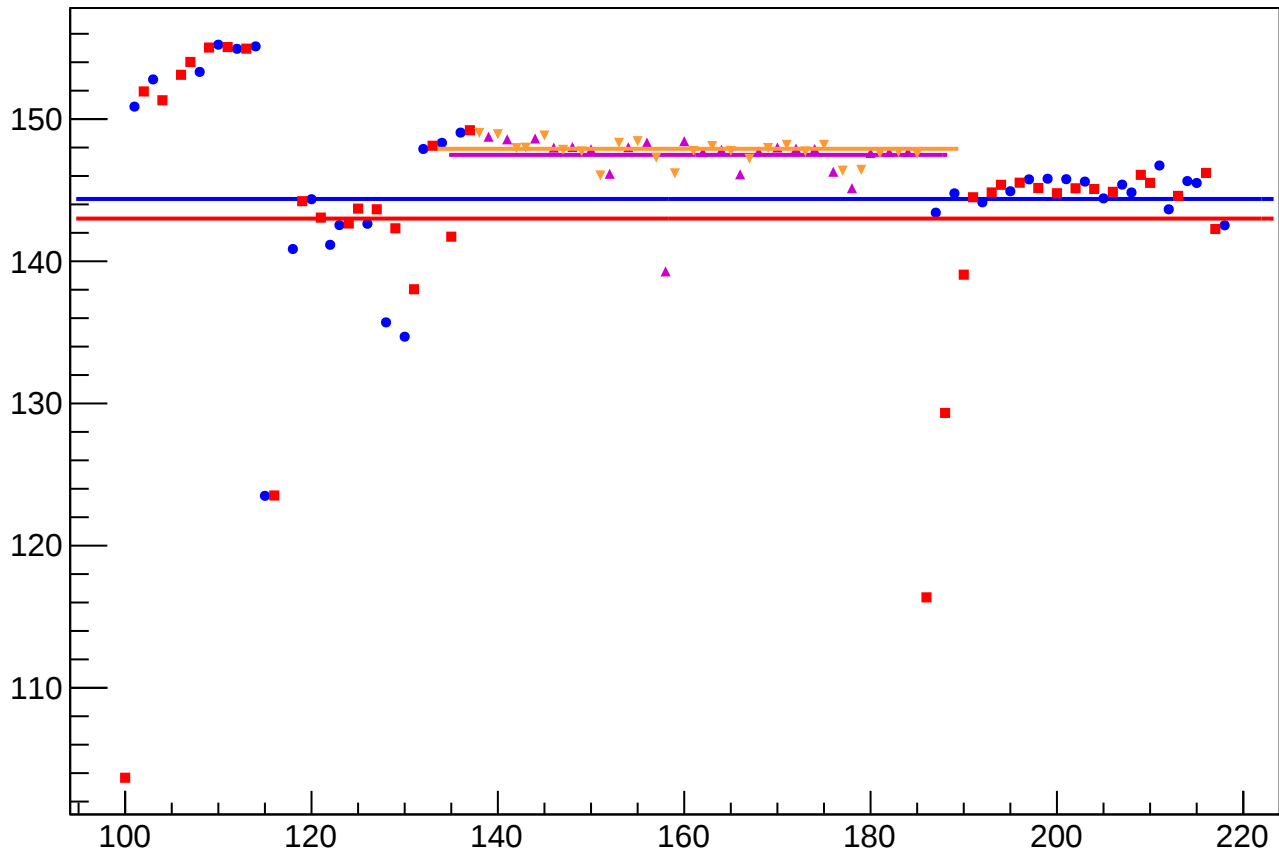
Right: 0.403 $\pm$ 0.000 χ^2/NDF : 7380817.3/68

In: 0.422 $\pm$ 0.000 χ^2/NDF : 5451676.3/55

Out: 0.415 $\pm$ 0.000 χ^2/NDF : 5544225.0/60

All: 0.418 $\pm$ 0.000 χ^2/NDF : 11004783.2/116

yield_bcm_an_us_mean vs Slug, Sign Corrected



Right In: 144.383+/-0.000 χ^2/NDF : 3718132315.8/32

Left Out: 147.912+/-0.000 χ^2/NDF : 64463426.1/24

Right Out: 143.004+/-0.000 χ^2/NDF : 7843960774.0/35

Left In: 147.483+/-0.000 χ^2/NDF : 342674720.4/22

Left: 147.706+/-0.000 χ^2/NDF : 415263003.2/47

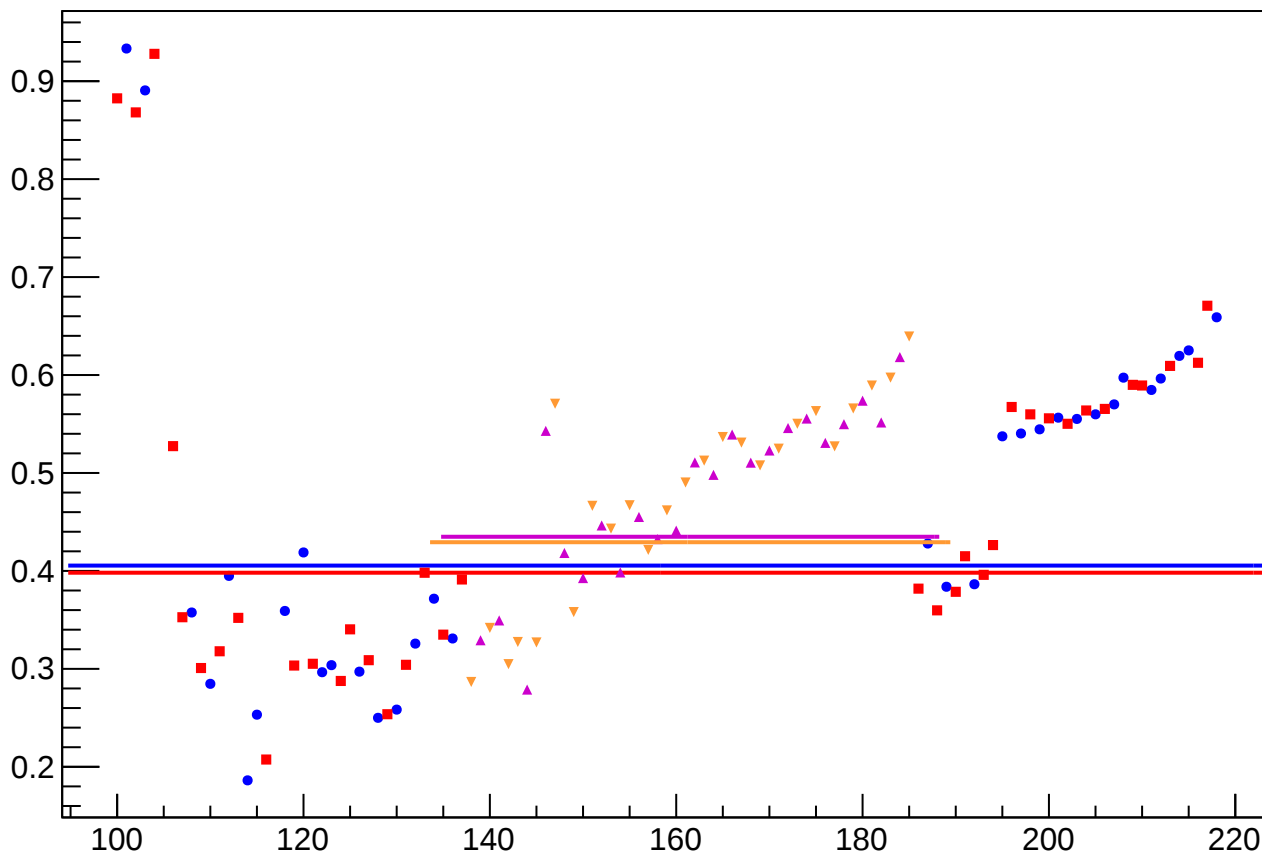
Right: 143.666+/-0.000 χ^2/NDF : 11654808310.4/68

In: 145.860+/-0.000 χ^2/NDF : 4490073004.4/55

Out: 145.336+/-0.000 χ^2/NDF : 9069591908.6/60

All: 145.588+/-0.000 χ^2/NDF : 13585198986.0/118

yield_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 0.405 ± 0.000 χ^2/NDF : 3891102.2/32

Left Out: 0.429 ± 0.000 χ^2/NDF : 1891709.3/24

Right Out: 0.398 ± 0.000 χ^2/NDF : 3519619.5/35

Left In: 0.435 ± 0.000 χ^2/NDF : 1485915.1/22

Left: 0.432 ± 0.000 χ^2/NDF : 3380372.0/47

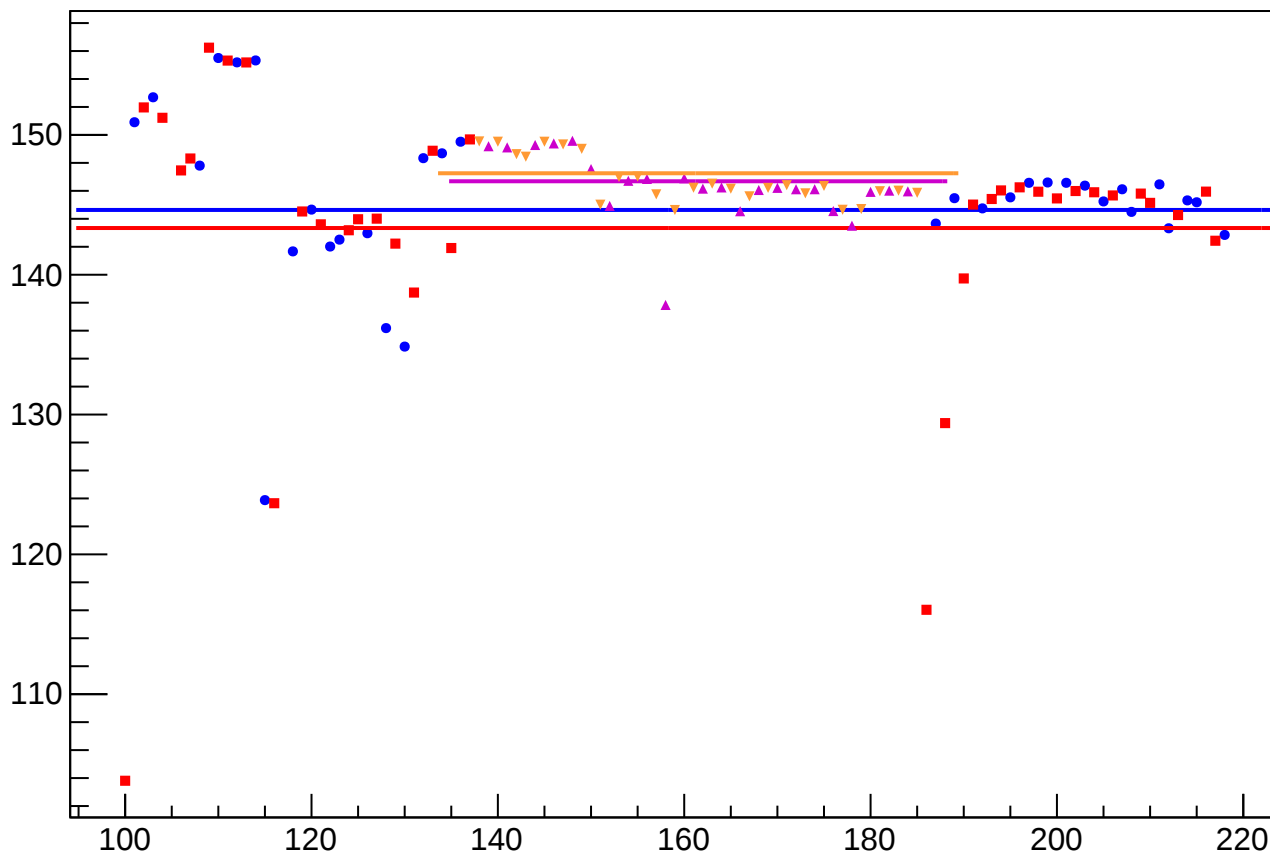
Right: 0.402 ± 0.000 χ^2/NDF : 7415879.4/68

In: 0.419 ± 0.000 χ^2/NDF : 5454417.3/55

Out: 0.413 ± 0.000 χ^2/NDF : 5504793.2/60

All: 0.416 ± 0.000 χ^2/NDF : 10967072.0/116

yield_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: 144.634 $\pm$ 0.000 χ^2 /NDF: 3236551260.1/32

Left Out: 147.257 $\pm$ 0.000 χ^2 /NDF: 261906278.3/24

Right Out: 143.341 $\pm$ 0.000 χ^2 /NDF: 7156267526.8/35

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

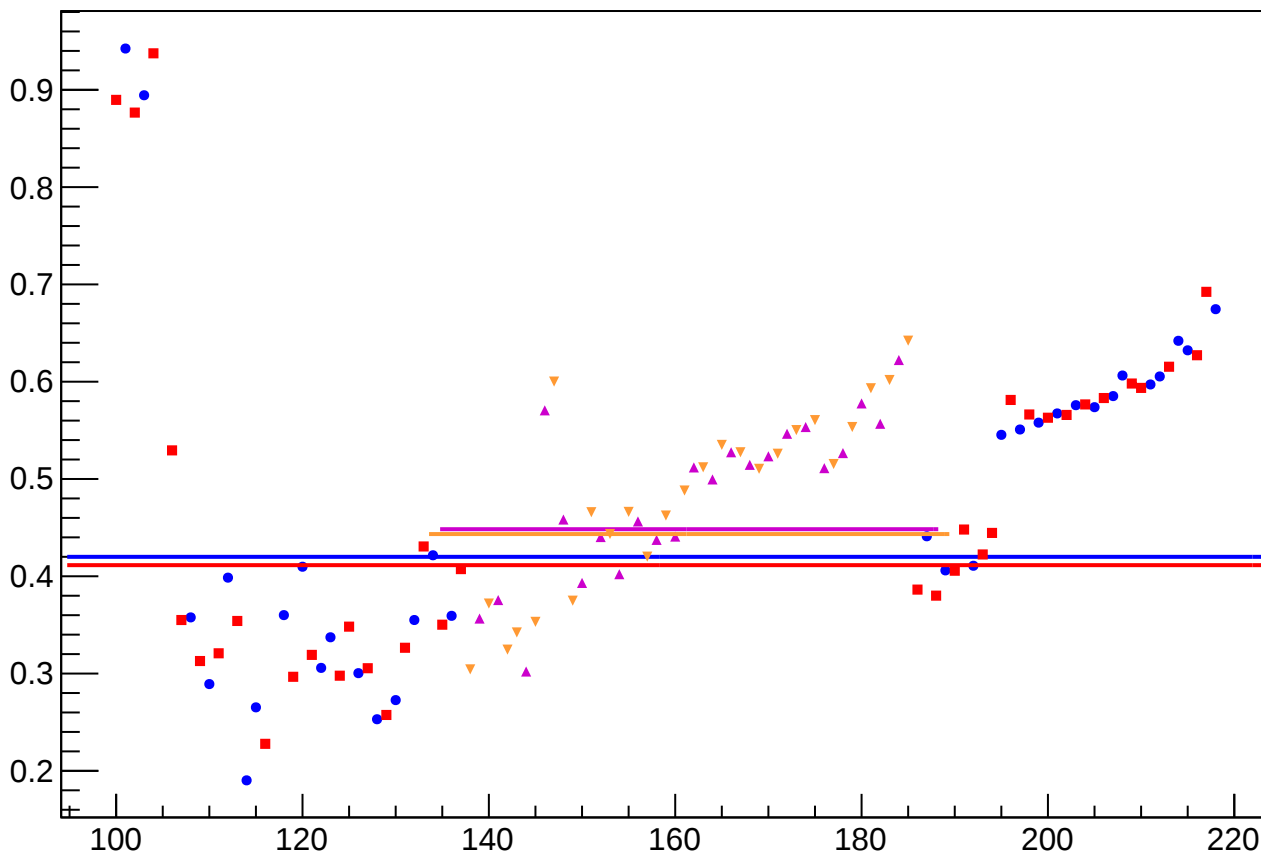
Right: 143.961 $\pm$ 0.000 χ^2 /NDF: 10468894801.6/68

In: 145.621 $\pm$ 0.000 χ^2 /NDF: 3968430440.5/55

Out: 145.213 $\pm$ 0.000 χ^2 /NDF: 8114240143.8/60

All: 145.409 $\pm$ 0.000 χ^2 /NDF: 12097232190.0/100

yield_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 0.420+/-0.000 χ^2/NDF : 3760230.1/32

Left Out: 0.443+/-0.000 χ^2/NDF :1480479.3/24

Right Out: 0.411+/-0.000 χ^2/NDF : 3405091.7/35

Left In: 0.448+/-0.000 χ^2/NDF :1120261.8/22

Left: 0.446+/-0.000 χ^2/NDF : 2602838.0/47

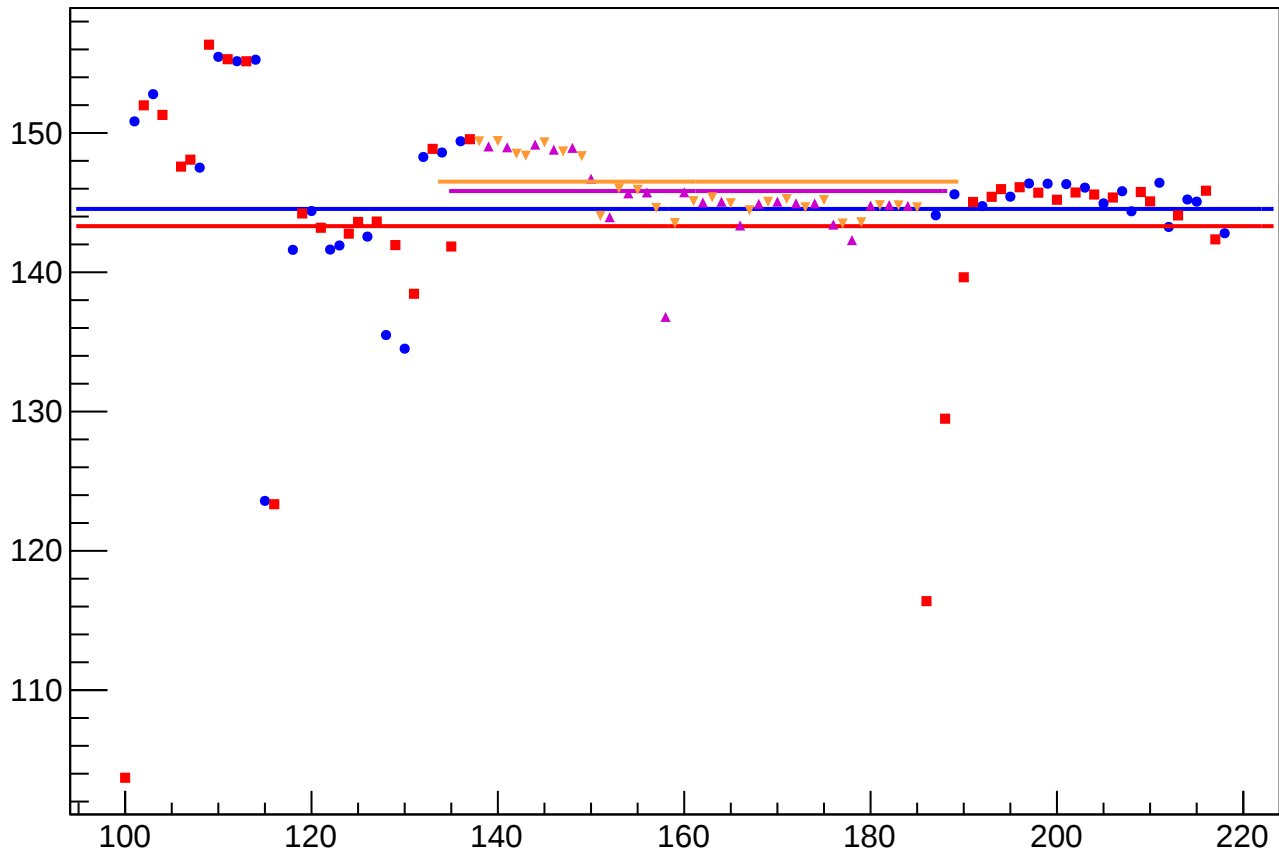
Right: 0.416+/-0.000 χ^2/NDF : 7171988.8/68

In: 0.434+/-0.000 χ^2/NDF :4948378.2/55

Out: 0.427+/-0.000 χ^2/NDF :4978304.4/60

All: 0.430+/-0.000 χ^2/NDF : 9935129.7/116

yield_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: 144.548 $\pm$ 0.000 χ^2 /NDF: 3346043335.9/32

Left Out: 146.508 $\pm$ 0.000 χ^2 /NDF: 401248837.9/24

Right Out: 143.313 $\pm$ 0.000 χ^2 /NDF: 7108158883.6/35

Left In: 145.834 $\pm$ 0.000 χ^2 /NDF: 690172810.0/22

Left: 146.184 $\pm$ 0.000 χ^2 /NDF: 1110403123.5/47

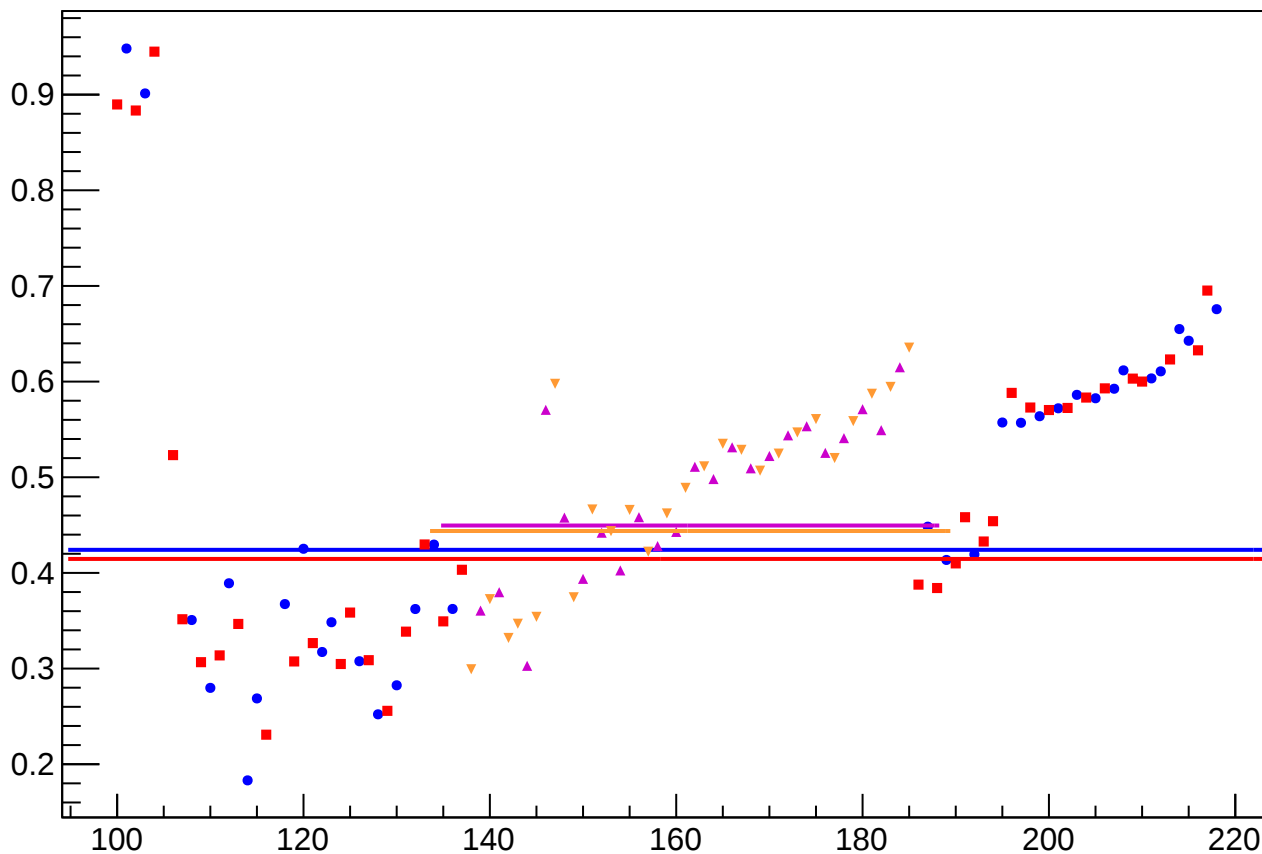
Right: 143.903 $\pm$ 0.000 χ^2 /NDF: 10522213056.2/68

In: 145.173 $\pm$ 0.000 χ^2 /NDF: 4104887110.4/55

Out: 144.853 $\pm$ 0.000 χ^2 /NDF: 7968261765.7/60

All: 145.006 $\pm$ 0.000 χ^2 /NDF: 12081975099.0/118

yield_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 0.424+/-0.000 χ^2/NDF : 3812797.6/32

Left Out: 0.444+/-0.000 χ^2/NDF :1460383.7/24

Right Out: 0.415+/-0.000 χ^2/NDF : 3440007.9/35

Left In: 0.450+/-0.000 χ^2/NDF :1092776.5/22

Left: 0.447+/-0.000 χ^2/NDF : 2555905.8/47

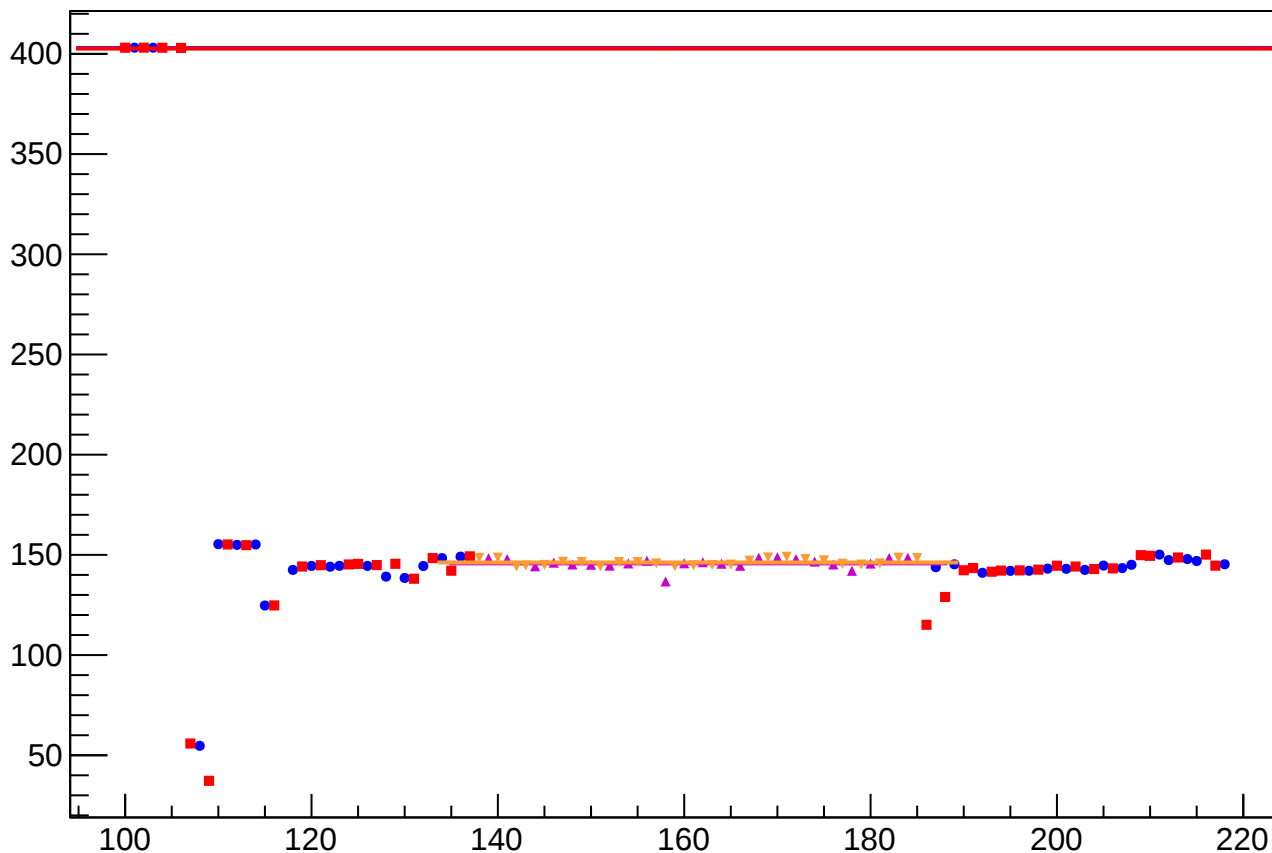
Right: 0.419+/-0.000 χ^2/NDF : 7260886.0/68

In: 0.436+/-0.000 χ^2/NDF :4959149.7/55

Out: 0.429+/-0.000 χ^2/NDF :4977007.0/60

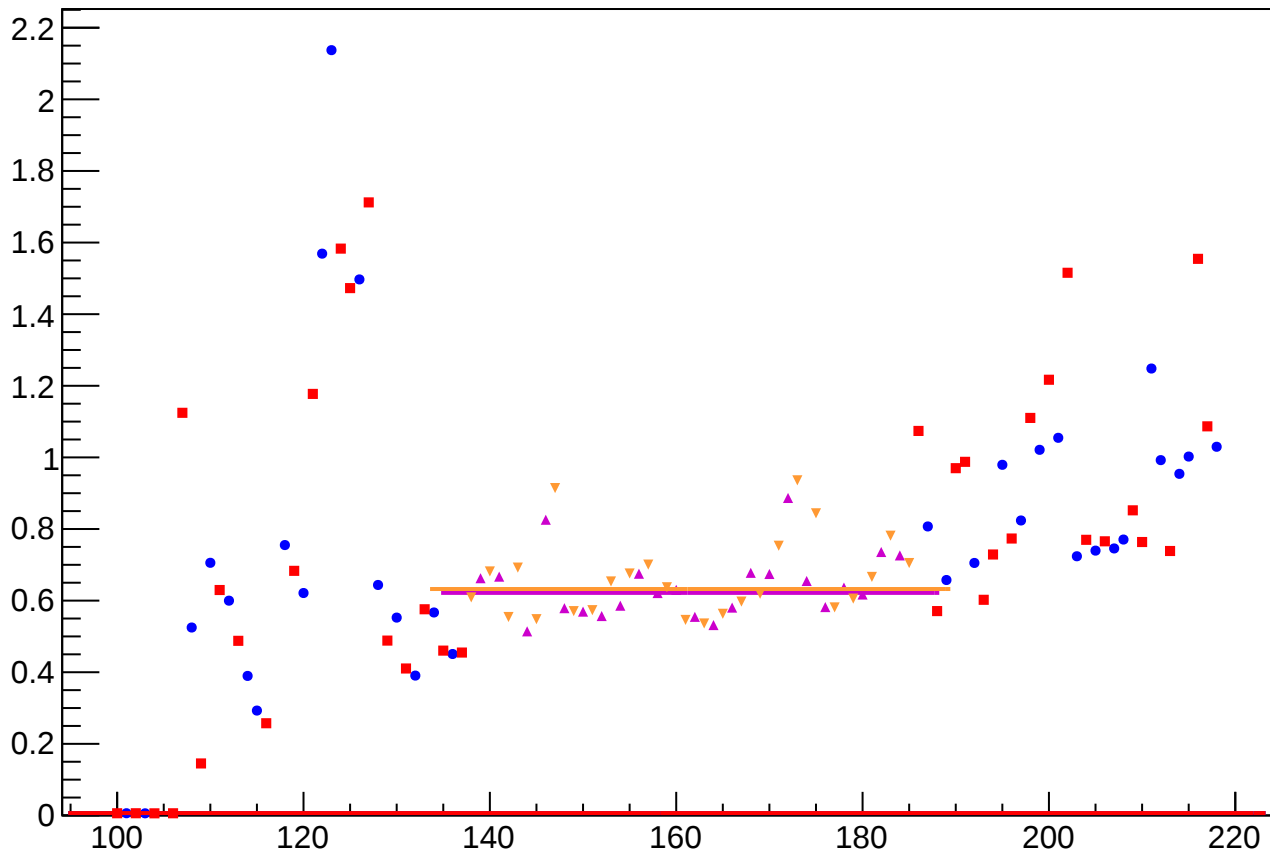
All: 0.432+/-0.000 χ^2/NDF : 9946627.5/116

yield_cav4bQ_mean vs Slug, Sign Corrected



Right In: 402.852 $\pm$ 0.000 χ^2 /NDF: 1942262763544.2/32
 Left Out: 146.216 $\pm$ 0.000 χ^2 /NDF: 86042286.3/24
 Right Out: 402.688 $\pm$ 0.000 χ^2 /NDF: 4123986943631.2/35
 Left In: 145.755 $\pm$ 0.000 χ^2 /NDF: 206171532.0/22
 Left: 145.987 $\pm$ 0.000 χ^2 /NDF: 295994641.0/47
 Right: 402.765 $\pm$ 0.000 χ^2 /NDF: 6066697508955.8/32
 In: 402.562 $\pm$ 0.000 χ^2 /NDF: 4272632397593.4/50
 Out: 402.427 $\pm$ 0.000 χ^2 /NDF: 6480646324889.0/64
 All: 402.490 $\pm$ 0.000 χ^2 /NDF: 107535767640.0/100

yield_cav4bQ_rms vs Slug, Sign Corrected



Right In: 0.007 $\pm$ 0.000 χ^2 /NDF: 27461451.7/32

Left Out: 0.632 $\pm$ 0.000 χ^2 /NDF:613604.5/24

Right Out: 0.007 $\pm$ 0.000 χ^2 /NDF: 28948448.7/35

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

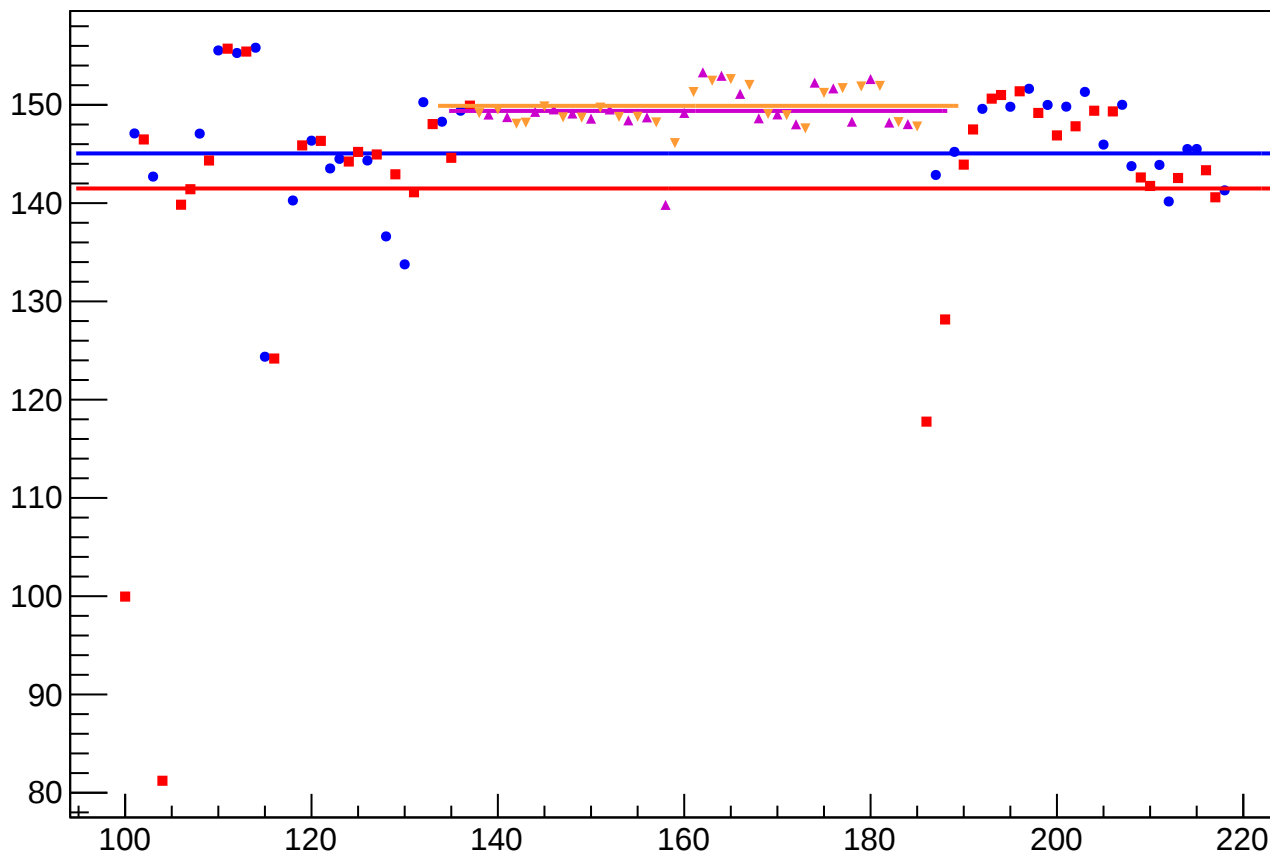
Right: 0.007 $\pm$ 0.000 χ^2 /NDF: 56409911.4/68

In: 0.007 $\pm$ 0.000 χ^2 /NDF:54521792.0/55

Out: 0.007 $\pm$ 0.000 χ^2 /NDF:57618344.6/60

All: 0.007 $\pm$ 0.000 χ^2 /NDF: 112140340.1/116

yield_cav4cQ_mean vs Slug, Sign Corrected



Right In: 145.058 $\pm$ 0.000

χ^2 /NDF: 1378949416.9/32

Left Out: 149.900 $\pm$ 0.000

χ^2 /NDF: 162845622.6/24

Right Out: 141.490 $\pm$ 0.000

χ^2 /NDF: 3253993286.3/35

Left In: 149.382 $\pm$ 0.000

χ^2 /NDF: 434657827.5/22

Left: 149.650 $\pm$ 0.000

χ^2 /NDF: 604081739.6/47

Right: 143.104 $\pm$ 0.000

χ^2 /NDF: 4819828423.0/68

In: 147.817 $\pm$ 0.000

χ^2 /NDF: 2133482043.4/55

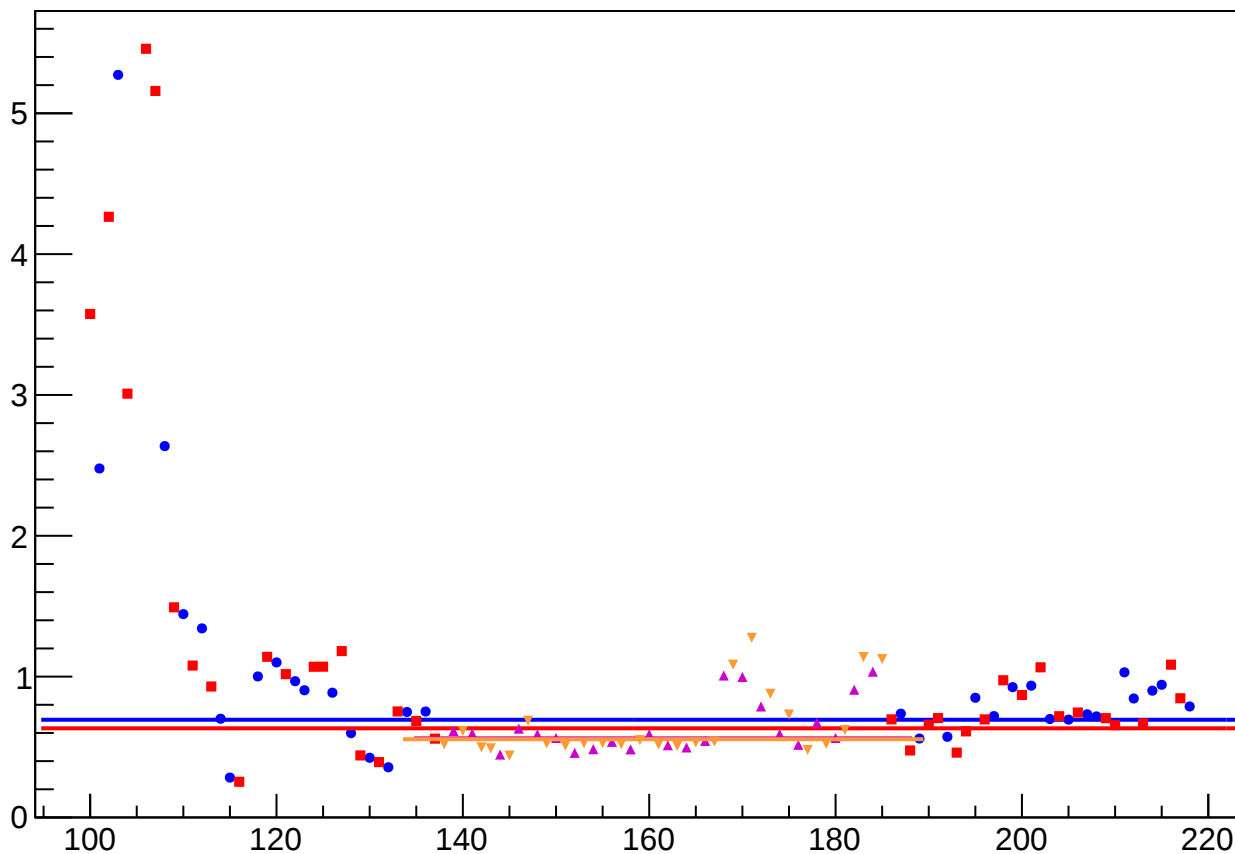
Out: 146.619 $\pm$ 0.000

χ^2 /NDF: 4817063651.3/60

All: 147.183 $\pm$ 0.000

χ^2 /NDF: 7006824852.6

yield_cav4cQ_rms vs Slug, Sign Corrected



Right In: 0.694+/-0.000 χ^2/NDF : 4415753.7/32

Left Out: 0.555+/-0.000 χ^2/NDF :1773688.1/24

Right Out: 0.633+/-0.000 χ^2/NDF : 5902303.1/35

Left In: 0.562+/-0.000 χ^2/NDF :1305573.4/22

Left: 0.559+/-0.000 χ^2/NDF : 3081194.0/47

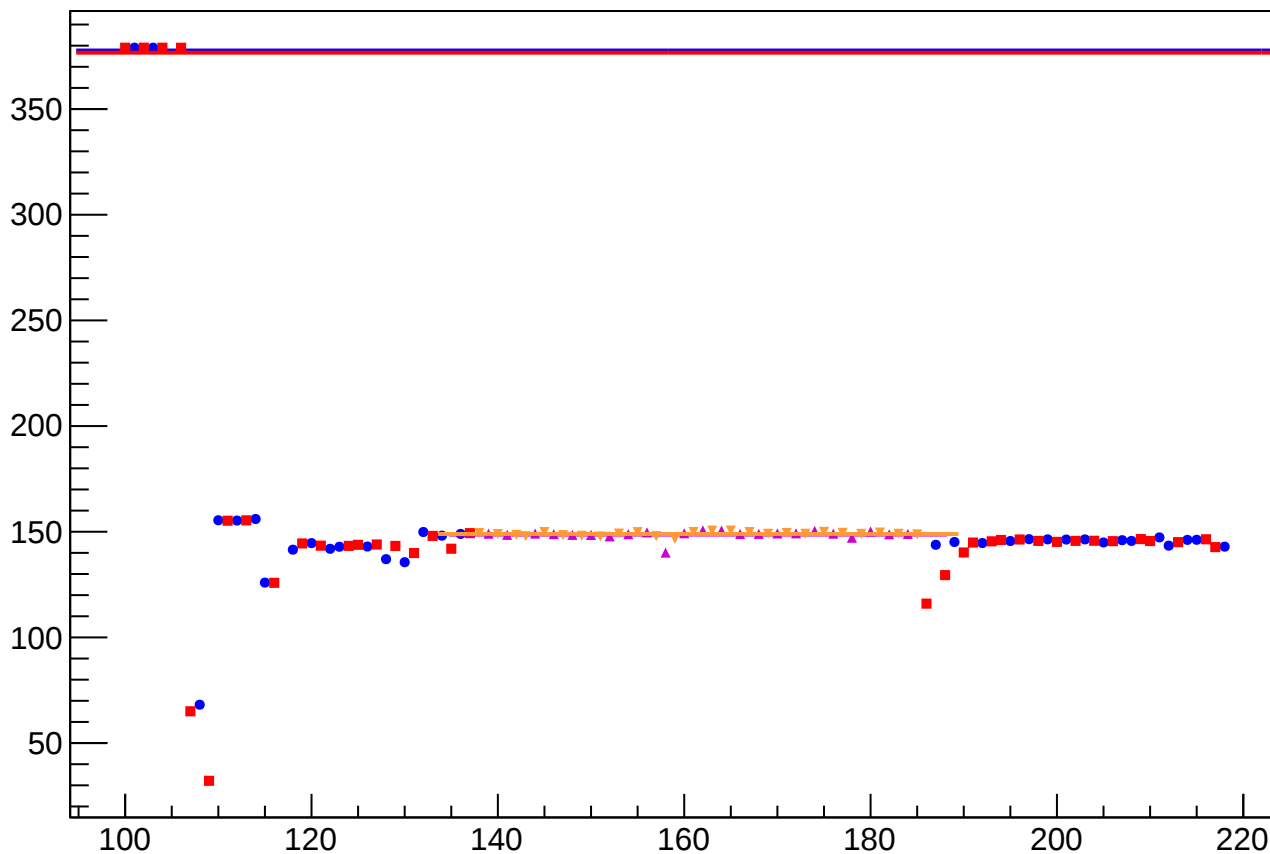
Right: 0.660+/-0.000 χ^2/NDF : 10426392.1/68

In: 0.610+/-0.000 χ^2/NDF :6317182.2/55

Out: 0.586+/-0.000 χ^2/NDF :7913857.1/60

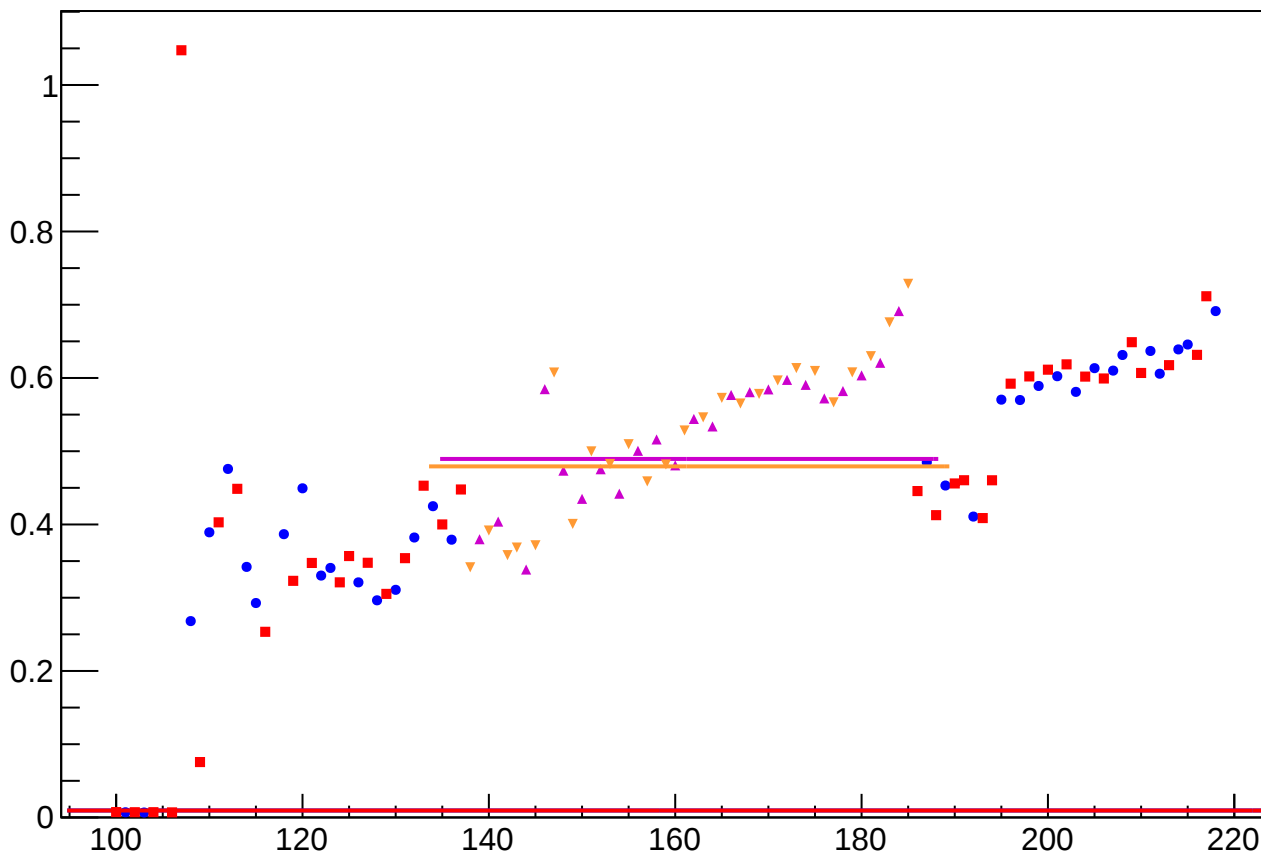
All: 0.597+/-0.000 χ^2/NDF : 14275406.7/116

yield_cav4dQ_mean vs Slug, Sign Corrected



Right In: 377.698 $\pm$ 0.000	χ^2 /NDF: 4320903241147.4/32	Left: 148.814 $\pm$ 0.000	χ^2 /NDF: 319467494.9/47
Left Out: 148.944 $\pm$ 0.000	χ^2 /NDF: 63976941.3/24	Right: 377.162 $\pm$ 0.000	χ^2 /NDF: 14741762912546.0
Right Out: 376.693 $\pm$ 0.000	χ^2 /NDF: 10413677278675.8/35	In: 376.530 $\pm$ 0.000	χ^2 /NDF: 7890435154880.8/50
Left In: 148.672 $\pm$ 0.000	χ^2 /NDF: 252846428.3/22	Out: 375.580 $\pm$ 0.000	χ^2 /NDF: 14269585835952.5
		All: 376.024 $\pm$ 0.000	χ^2 /NDF: 221664691250.0

yield_cav4dQ_rms vs Slug, Sign Corrected



Right In: 0.010 $\pm$ 0.000 χ^2 /NDF: 31428949.3/32

Left Out: 0.479 $\pm$ 0.000 χ^2 /NDF:1516566.1/24

Right Out: 0.009 $\pm$ 0.000 χ^2 /NDF: 31489529.0/35

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

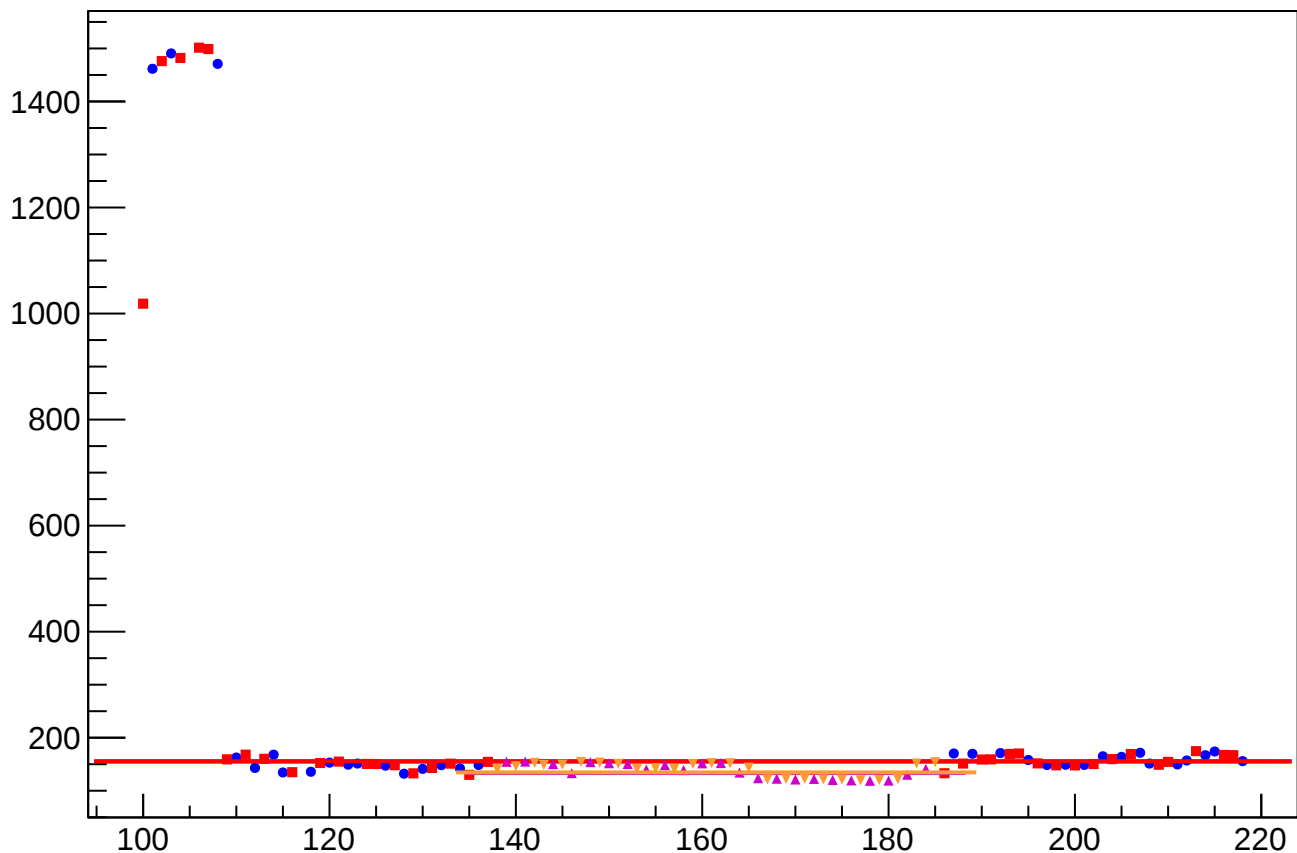
Right: 0.010 $\pm$ 0.000 χ^2 /NDF: 62918530.9/68

In: 0.012 $\pm$ 0.000 χ^2 /NDF:63852123.9/55

Out: 0.012 $\pm$ 0.000 χ^2 /NDF:65824311.9/60

All: 0.012 $\pm$ 0.000 χ^2 /NDF: 129677082.3/116

yield_bcm0l02_mean vs Slug, Sign Corrected



Right In: 155.282+/-0.000 χ^2/NDF : 26182129662.6/32

Left Out: 134.554+/-0.000 χ^2/NDF : 4376966869.3/24

Right Out: 155.484+/-0.000 χ^2/NDF : 35304554469.5/35

Left In: 133.337+/-0.000 χ^2/NDF : 4303812119.2/22

Left: 133.958+/-0.000 χ^2/NDF : 8697951676.8/47

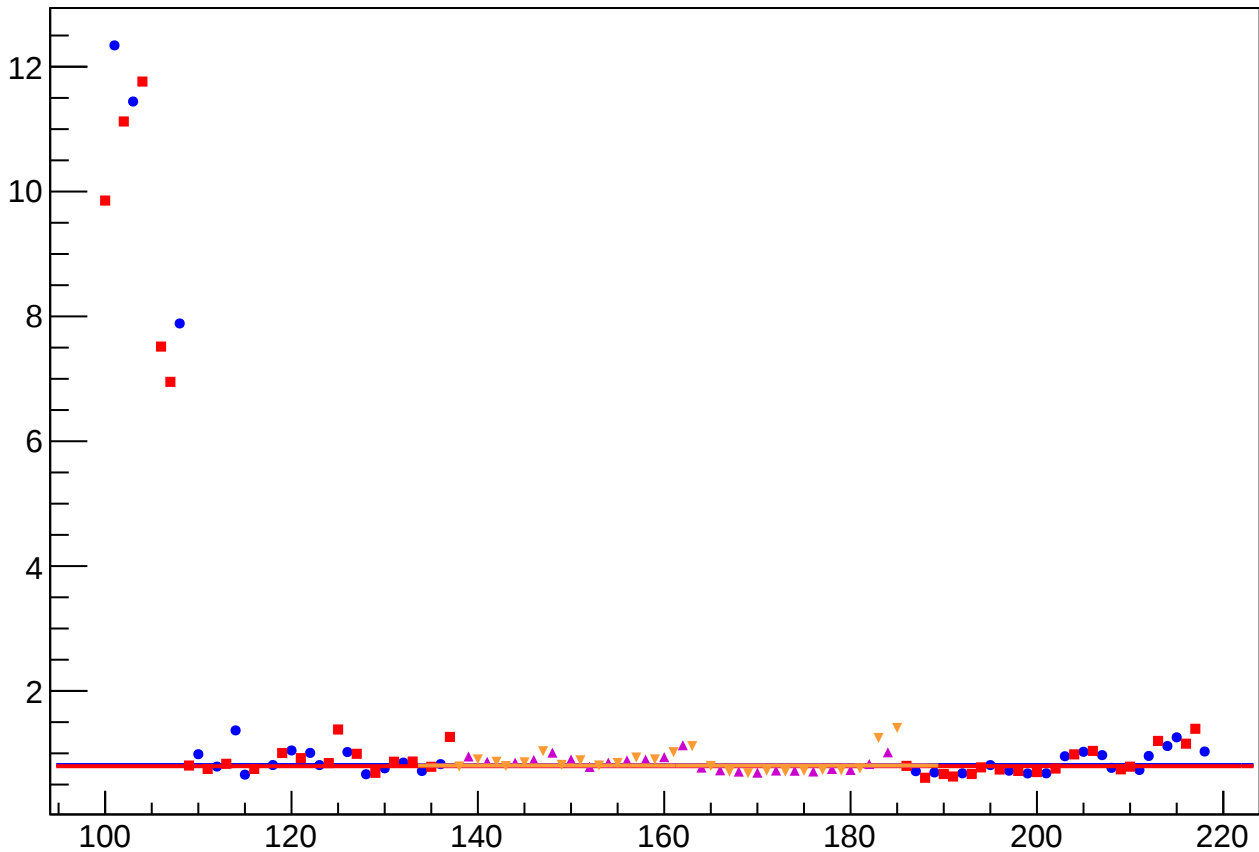
Right: 155.386+/-0.000 χ^2/NDF : 61487113541.2/68

In: 143.679+/-0.000 χ^2/NDF : 35646798045.3/55

Out: 144.541+/-0.000 χ^2/NDF : 44638417746.5/60

All: 144.122+/-0.000 χ^2/NDF : 80301614906.0

yield_bcm0l02_rms vs Slug, Sign Corrected



Right In: 0.813+/-0.000 χ^2/NDF : 3362231.7/32

Left Out: 0.806+/-0.000 χ^2/NDF : 690578.5/24

Right Out: 0.794+/-0.000 χ^2/NDF : 3792598.6/35

Left In: 0.805+/-0.000 χ^2/NDF : 480510.8/22

Left: 0.805+/-0.000 χ^2/NDF : 1171131.4/47

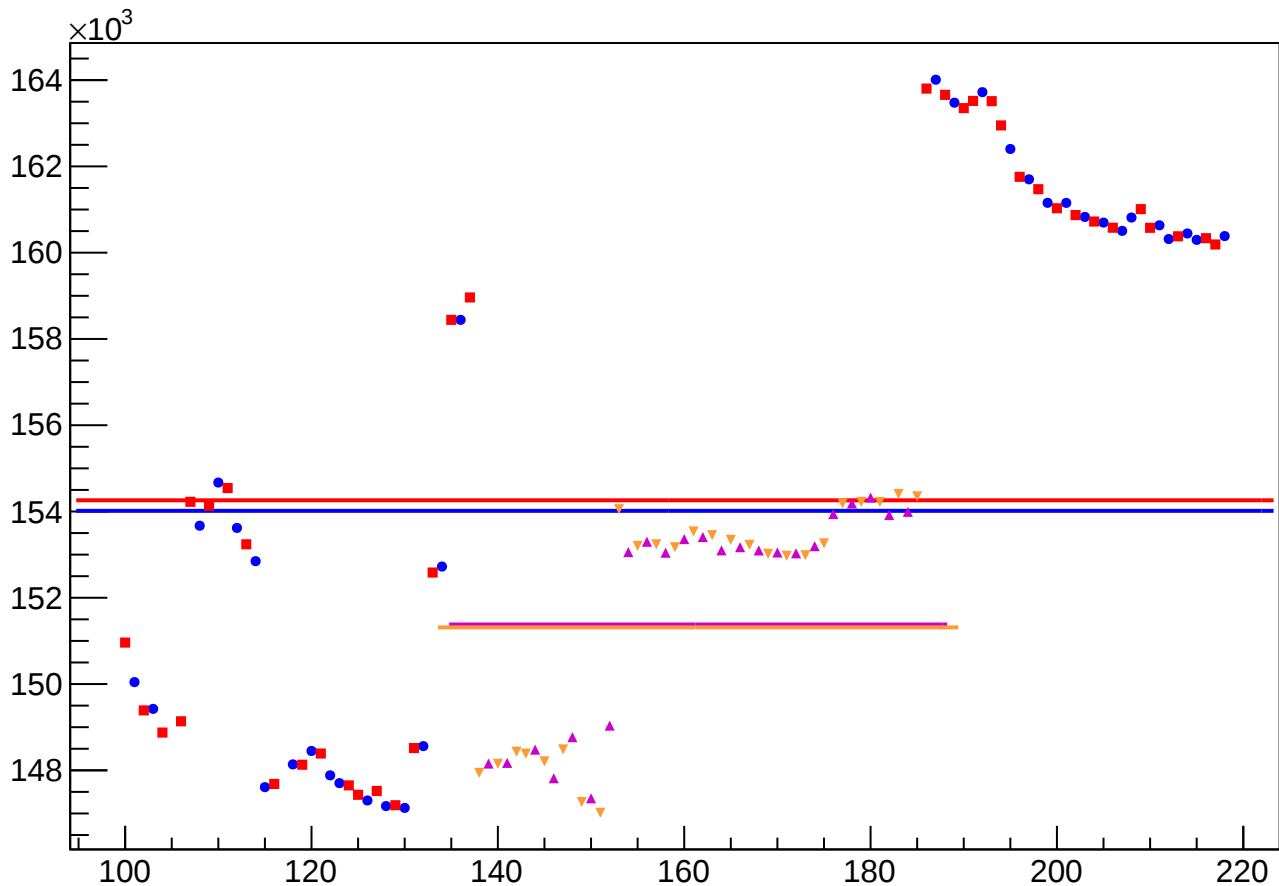
Right: 0.803+/-0.000 χ^2/NDF : 7161979.4/68

In: 0.808+/-0.000 χ^2/NDF : 3844026.7/55

Out: 0.800+/-0.000 χ^2/NDF : 4486483.1/60

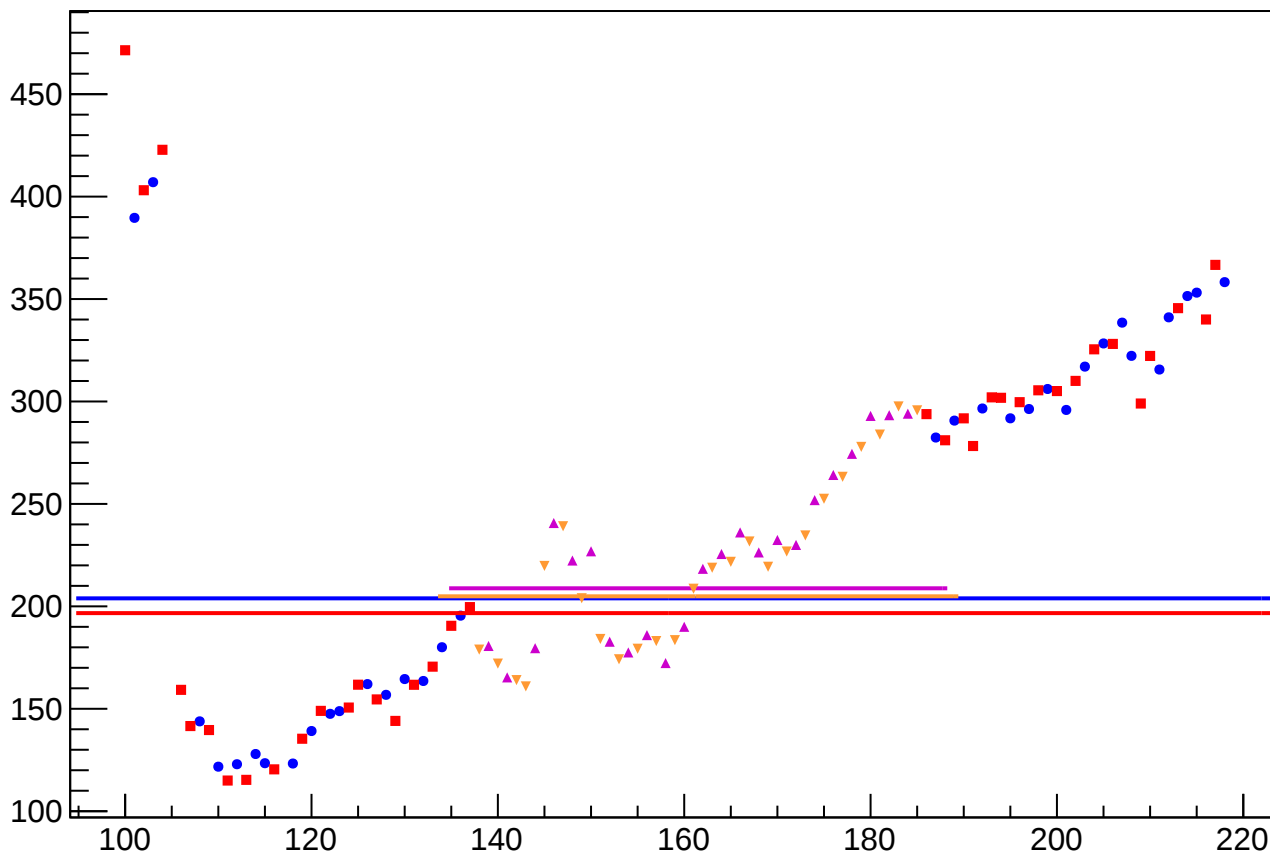
All: 0.804+/-0.000 χ^2/NDF : 8333384.0/116

yield_bpm0i01WS_mean vs Slug, Sign Corrected



Right In: 154015.391+/-0.052	χ^2/NDF : 12401926442.8/32	Left: 151345.082+/-0.035	χ^2/NDF : 5518562148.3/4
Left Out: 151313.284+/-0.049	χ^2/NDF : 3153768134.8/24	Right: 154142.953+/-0.036	χ^2/NDF : 25380846752.5
Right Out: 154259.434+/-0.050	χ^2/NDF : 12967562547.8/35	In: 152668.180+/-0.037	χ^2/NDF : 16061046985.2/5
Left In: 151380.236+/-0.051	χ^2/NDF : 2363895785.3/22	Out: 152746.247+/-0.035	χ^2/NDF : 17902544082.5
		All: 152709.081+/-0.025	χ^2/NDF : 339659745

yield_bpm0i01WS_rms vs Slug, Sign Corrected



Right In: 203.906 $\pm$ 0.037 χ^2 /NDF: 5464587.6/32

Left Out: 204.900 $\pm$ 0.034 χ^2 /NDF:1056380.8/24

Right Out: 196.698 $\pm$ 0.035 χ^2 /NDF: 5718461.4/35

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

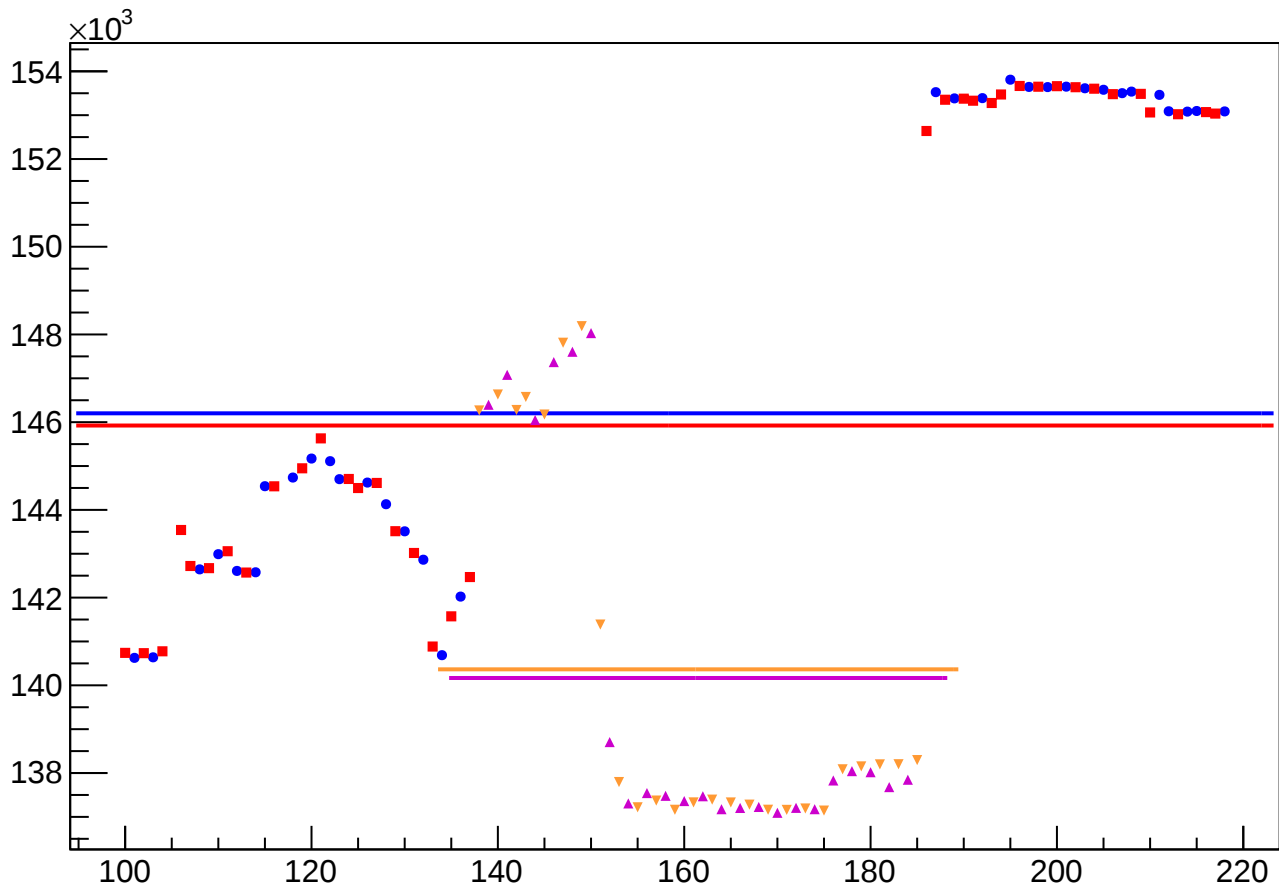
Right: 200.138 $\pm$ 0.026 χ^2 /NDF: 11202864.6/68

In: 206.414 $\pm$ 0.026 χ^2 /NDF:6475505.5/55

Out: 200.910 $\pm$ 0.025 χ^2 /NDF:6802449.7/60

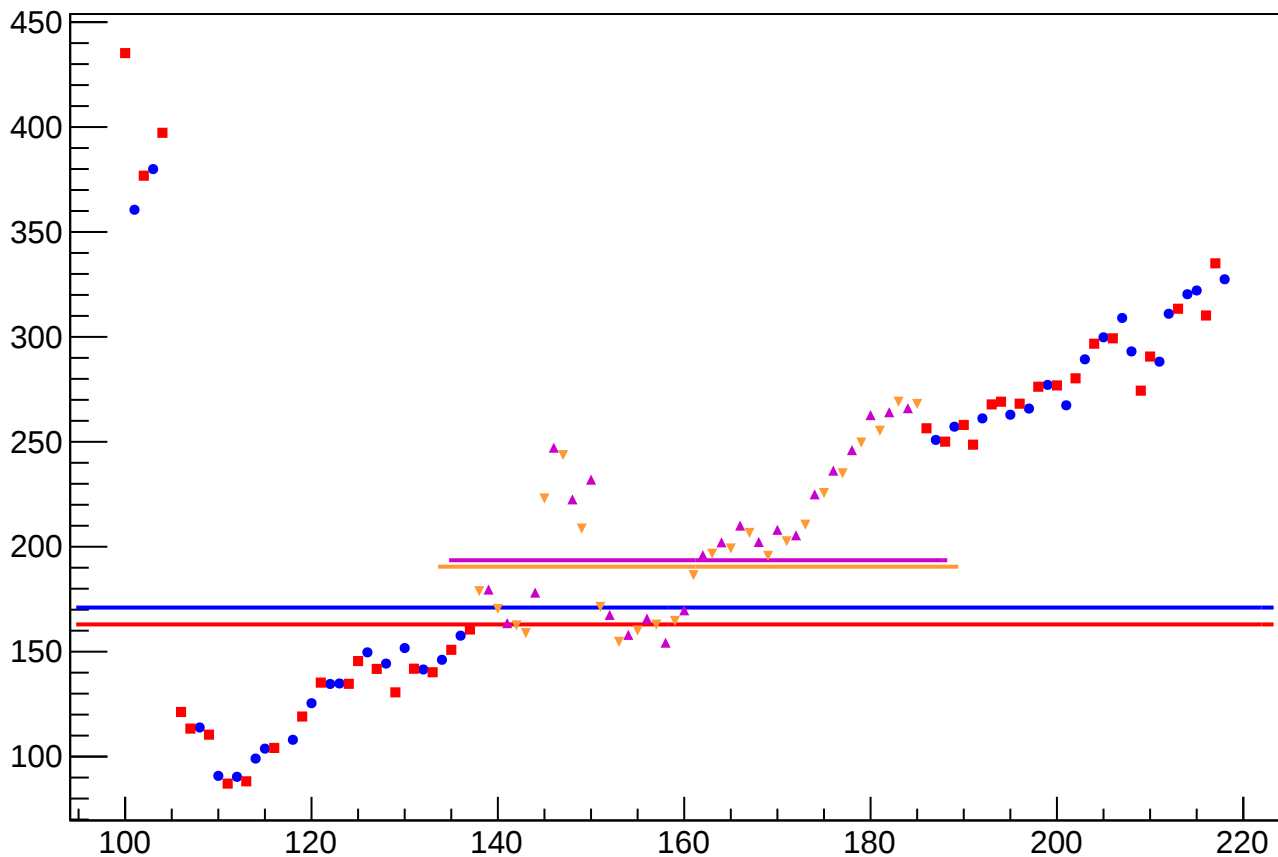
All: 203.531 $\pm$ 0.018 χ^2 /NDF: 13301650.4/11

yield_bpm0i01aWS_mean vs Slug, Sign Corrected



Right In: 146201.996 $\pm$ 0.045	χ^2 /NDF: 10716856782.0/32	Left: 140270.460 $\pm$ 0.033	χ^2 /NDF: 16714620354.4
Left Out: 140364.444 $\pm$ 0.045	χ^2 /NDF: 8677078677.7/24	Right: 146054.432 $\pm$ 0.031	χ^2 /NDF: 22402640198.3
Right Out: 145923.579 $\pm$ 0.042	χ^2 /NDF: 11665331327.4/35	In: 143356.344 $\pm$ 0.033	χ^2 /NDF: 27294471500.7/5
Left In: 140166.971 $\pm$ 0.047	χ^2 /NDF: 8028464654.6/22	Out: 143335.336 $\pm$ 0.031	χ^2 /NDF: 28419800217.3/
		All: 143345.268 $\pm$ 0.022	χ^2 /NDF: 557144909

yield_bpm0i01aWS_rms vs Slug, Sign Corrected



Right In: 171.021+/-0.032 χ^2/NDF : 6699791.6/32

Left Out: 190.486+/-0.032 χ^2/NDF : 950233.2/24

Right Out: 162.980+/-0.030 χ^2/NDF : 7022403.3/35

Left In: 193.558+/-0.034 χ^2/NDF : 963675.0/22

Left: 191.948+/-0.023 χ^2/NDF : 1918302.4/47

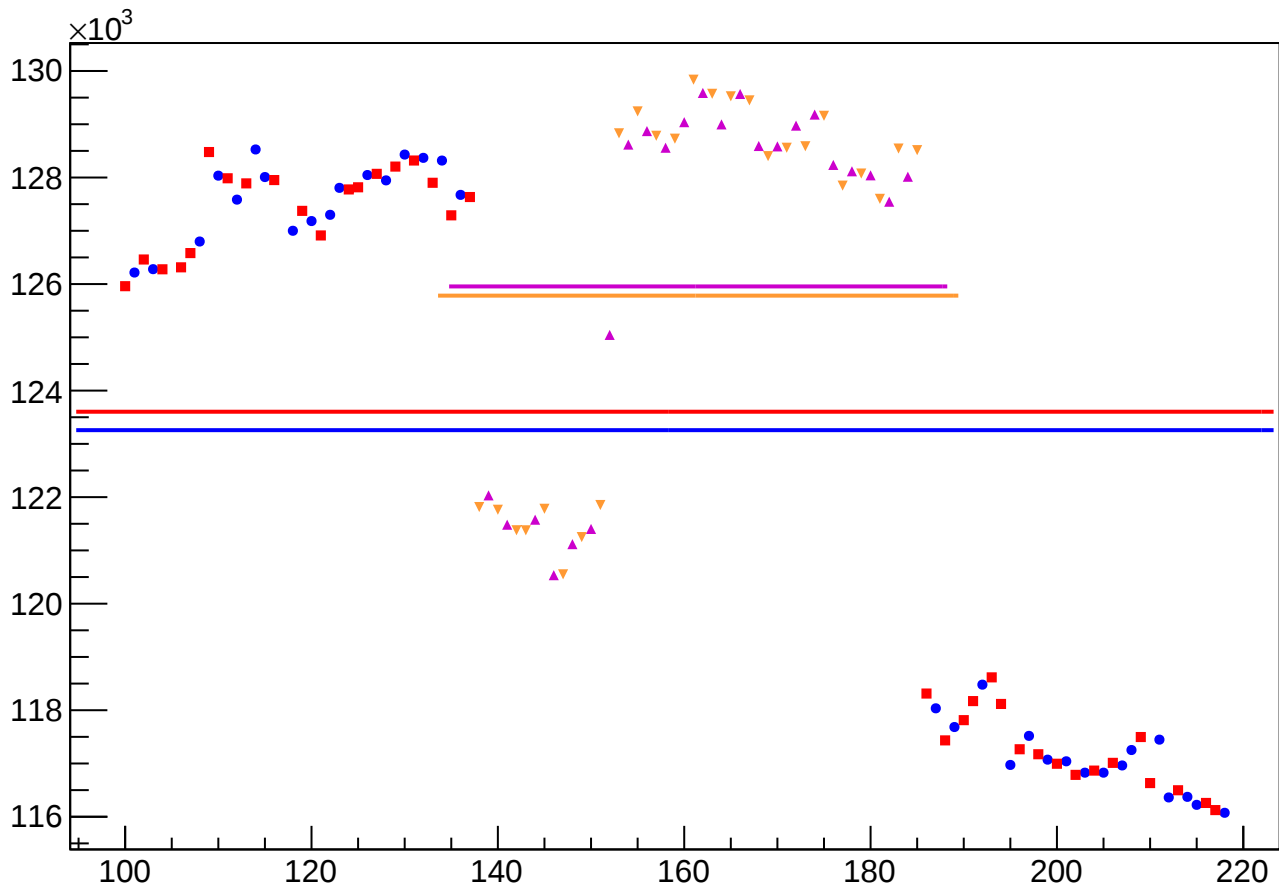
Right: 166.759+/-0.022 χ^2/NDF : 13756318.0/68

In: 181.648+/-0.023 χ^2/NDF : 7901909.5/55

Out: 175.786+/-0.022 χ^2/NDF : 8368135.0/60

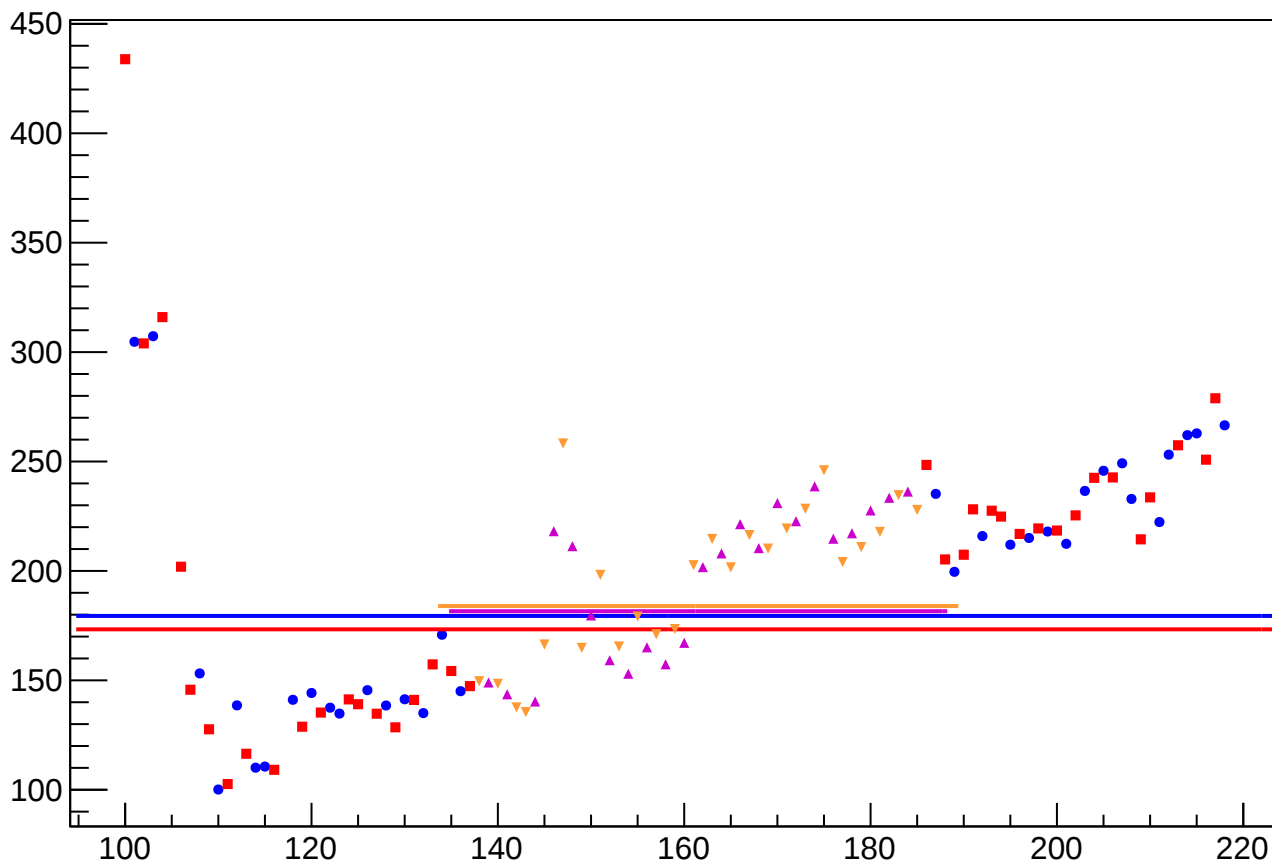
All: 178.557+/-0.016 χ^2/NDF : 16304173.0/117

yield_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: 123257.432 $\pm$ 0.044	χ^2/NDF : 14115283428.4/32	Left: 125867.639 $\pm$ 0.031	χ^2/NDF : 12541428458.9/32
Left Out: 125782.764 $\pm$ 0.044	χ^2/NDF : 6729761889.8/24	Right: 123437.833 $\pm$ 0.031	χ^2/NDF : 28856558580.0/24
Right Out: 123603.513 $\pm$ 0.042	χ^2/NDF : 14709506834.0/35	In: 124592.179 $\pm$ 0.032	χ^2/NDF : 21751900256.0/35
Left In: 125955.637 $\pm$ 0.045	χ^2/NDF : 5804088930.1/22	Out: 124654.870 $\pm$ 0.031	χ^2/NDF : 22708681952.7/22
		All: 124624.483 $\pm$ 0.022	χ^2/NDF : 444626215/22

yield_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 179.442+/-0.031 χ^2/NDF : 2927249.5/32

Left Out: 183.947+/-0.031 χ^2/NDF : 1123194.0/24

Right Out: 173.308+/-0.030 χ^2/NDF : 3346642.3/35

Left In: 181.596+/-0.032 χ^2/NDF : 1103524.3/22

Left: 182.792+/-0.022 χ^2/NDF : 2229521.2/47

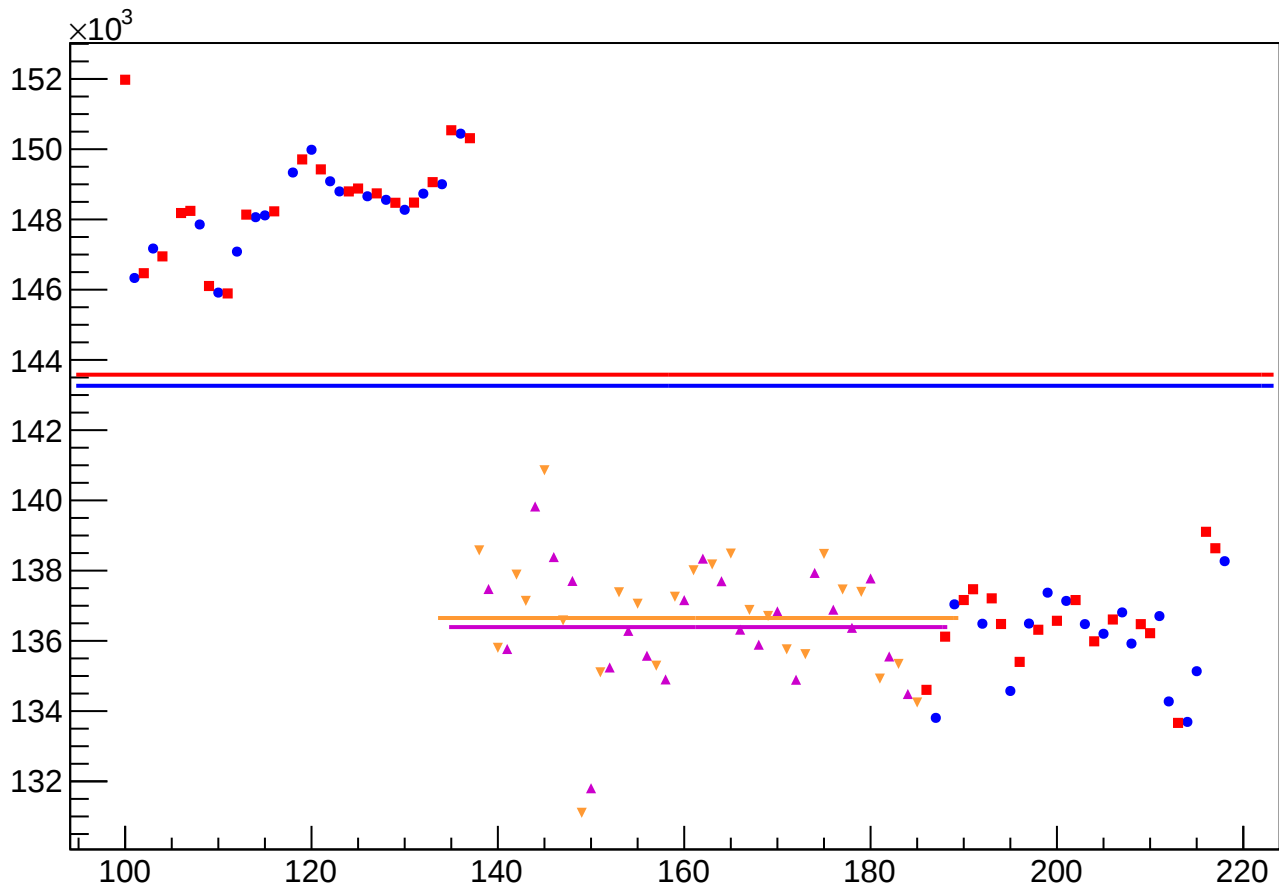
Right: 176.245+/-0.022 χ^2/NDF : 6293852.2/68

In: 180.508+/-0.022 χ^2/NDF : 4033108.2/55

Out: 178.441+/-0.022 χ^2/NDF : 4530338.8/60

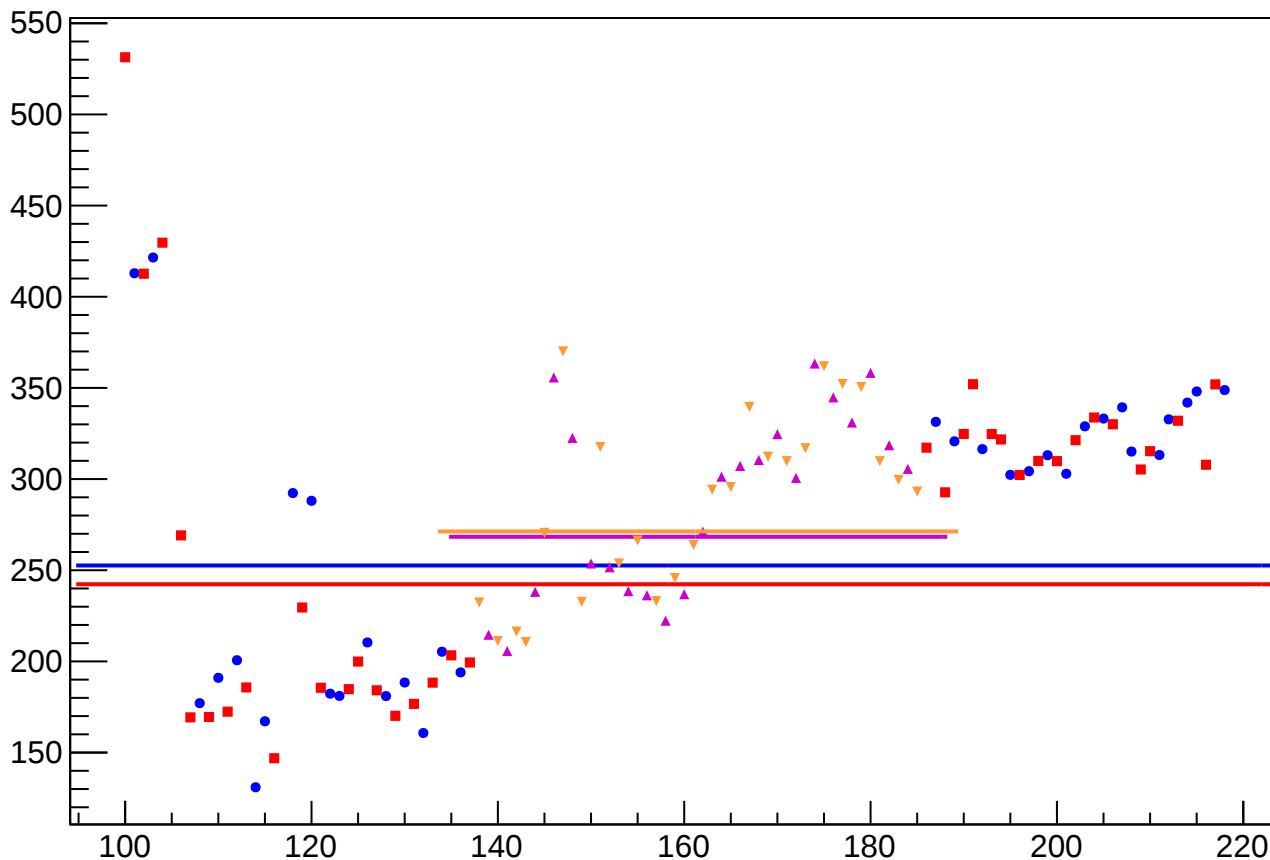
All: 179.443+/-0.016 χ^2/NDF : 8567880.4/116

yield_bpm0l02WS_mean vs Slug, Sign Corrected



Right In: 143263.429 $\pm$ 0.062	χ^2 /NDF: 9989191718.1/32	Left: 136524.219 $\pm$ 0.046	χ^2 /NDF: 1640486942.5/4
Left Out: 136650.935 $\pm$ 0.065	χ^2 /NDF: 930649595.5/24	Right: 143429.450 $\pm$ 0.043	χ^2 /NDF: 19993530262.4/10
Right Out: 143579.380 $\pm$ 0.059	χ^2 /NDF: 9990836252.4/35	In: 140022.525 $\pm$ 0.045	χ^2 /NDF: 16423473376.1/5
Left In: 136392.188 $\pm$ 0.066	χ^2 /NDF: 701986841.4/22	Out: 140416.362 $\pm$ 0.044	χ^2 /NDF: 17167995548.7/10
		All: 140226.696 $\pm$ 0.031	χ^2 /NDF: 336306455.0/10

yield_bpm0l02WS_rms vs Slug, Sign Corrected



Right In: 252.608 $\pm$ 0.044 χ^2 /NDF: 2865080.1/32

Left Out: 271.295 $\pm$ 0.046 χ^2 /NDF:1064485.7/24

Right Out: 242.318 $\pm$ 0.042 χ^2 /NDF: 3062520.9/35

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

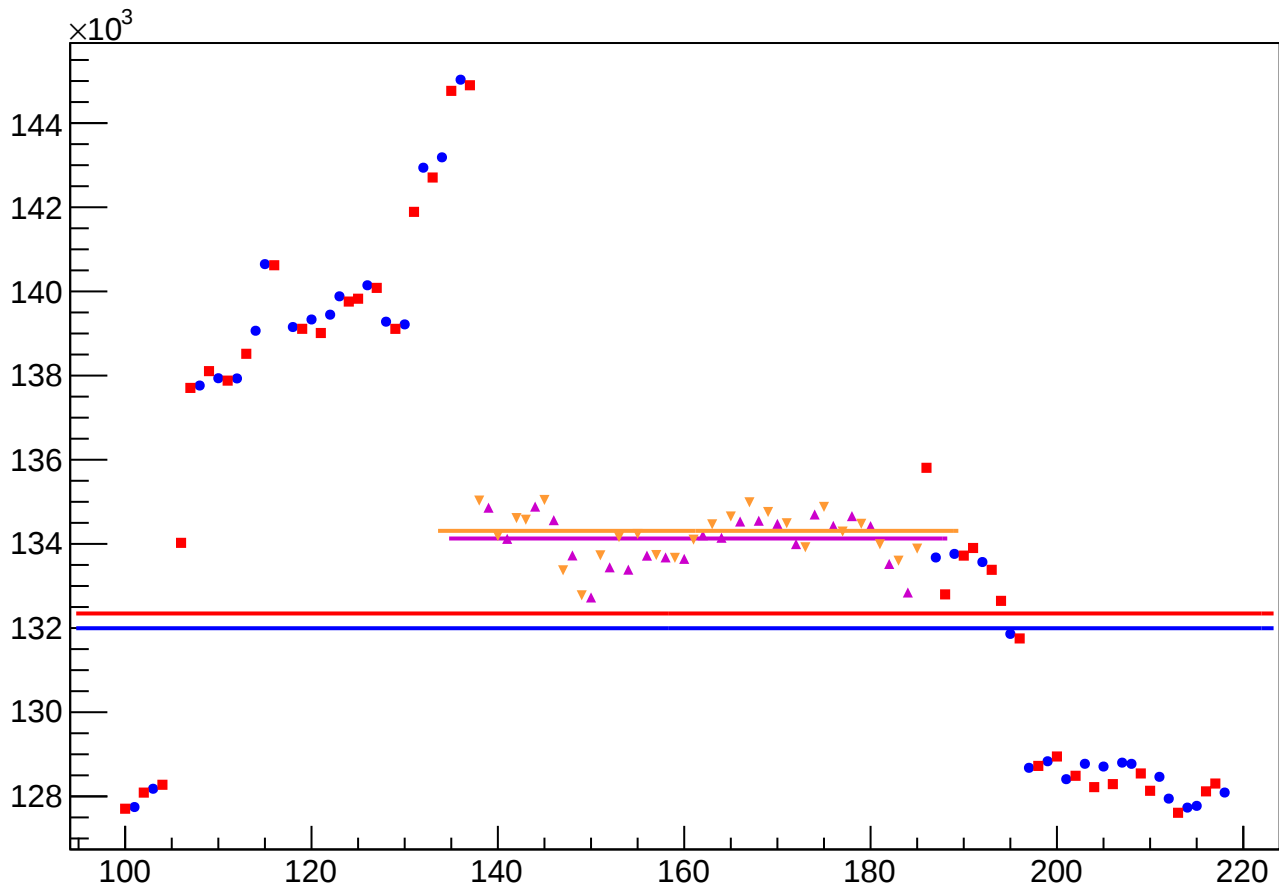
Right: 247.201 $\pm$ 0.030 χ^2 /NDF: 5956245.6/68

In: 260.030 $\pm$ 0.032 χ^2 /NDF:4002568.5/55

Out: 255.547 $\pm$ 0.031 χ^2 /NDF:4345537.1/60

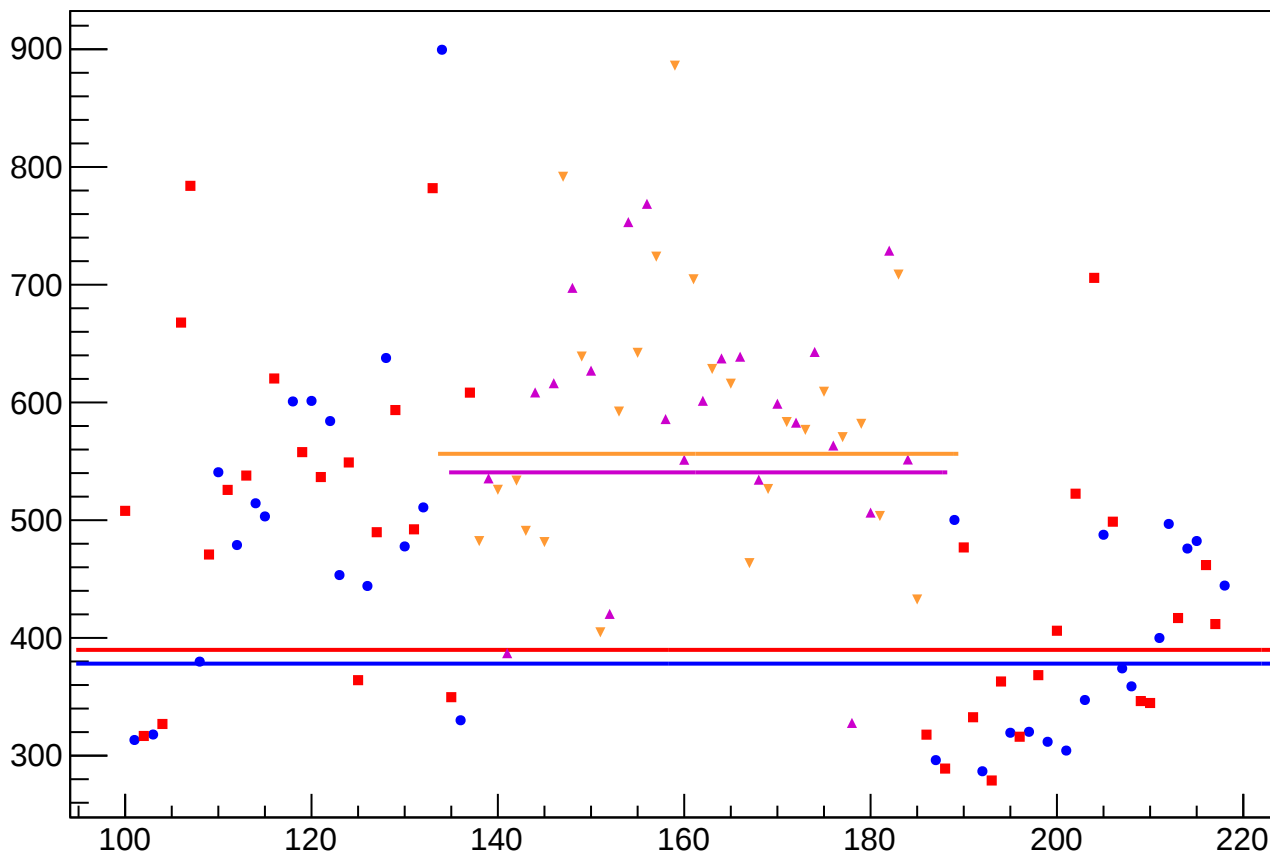
All: 257.706 $\pm$ 0.022 χ^2 /NDF: 8358258.2/116

yield_bpm0l03WS_mean vs Slug, Sign Corrected



Right In: 131995.990 $\pm$ 0.100	χ^2/NDF : 2840730542.1/32	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: 132166.476 $\pm$ 0.072	χ^2/NDF : 4905163772.3/6
Right Out: 132346.642 $\pm$ 0.103	χ^2/NDF : 2058479996.2/35	In: 132704.910 $\pm$ 0.082	χ^2/NDF : 3006789131.3/5
Left In: 134128.172 $\pm$ 0.142	χ^2/NDF : 15533736.2/22	Out: 133045.665 $\pm$ 0.083	χ^2/NDF : 2203343876.3/6
		All: 132873.637 $\pm$ 0.058	χ^2/NDF : 521871037.0/10

yield_bpm0l03WS_rms vs Slug, Sign Corrected



Right In: 378.163 ± 0.071 $\chi^2/\text{NDF}: 1573135.0/32$

Left Out: 556.381 ± 0.098 $\chi^2/\text{NDF}: 1002064.0/24$

Right Out: 389.851 ± 0.073 $\chi^2/\text{NDF}: 1971708.4/35$

Left In: 540.607 ± 0.100 $\chi^2/\text{NDF}: 1409015.2/22$

Left: 548.687 ± 0.070 $\chi^2/\text{NDF}: 2423723.9/47$

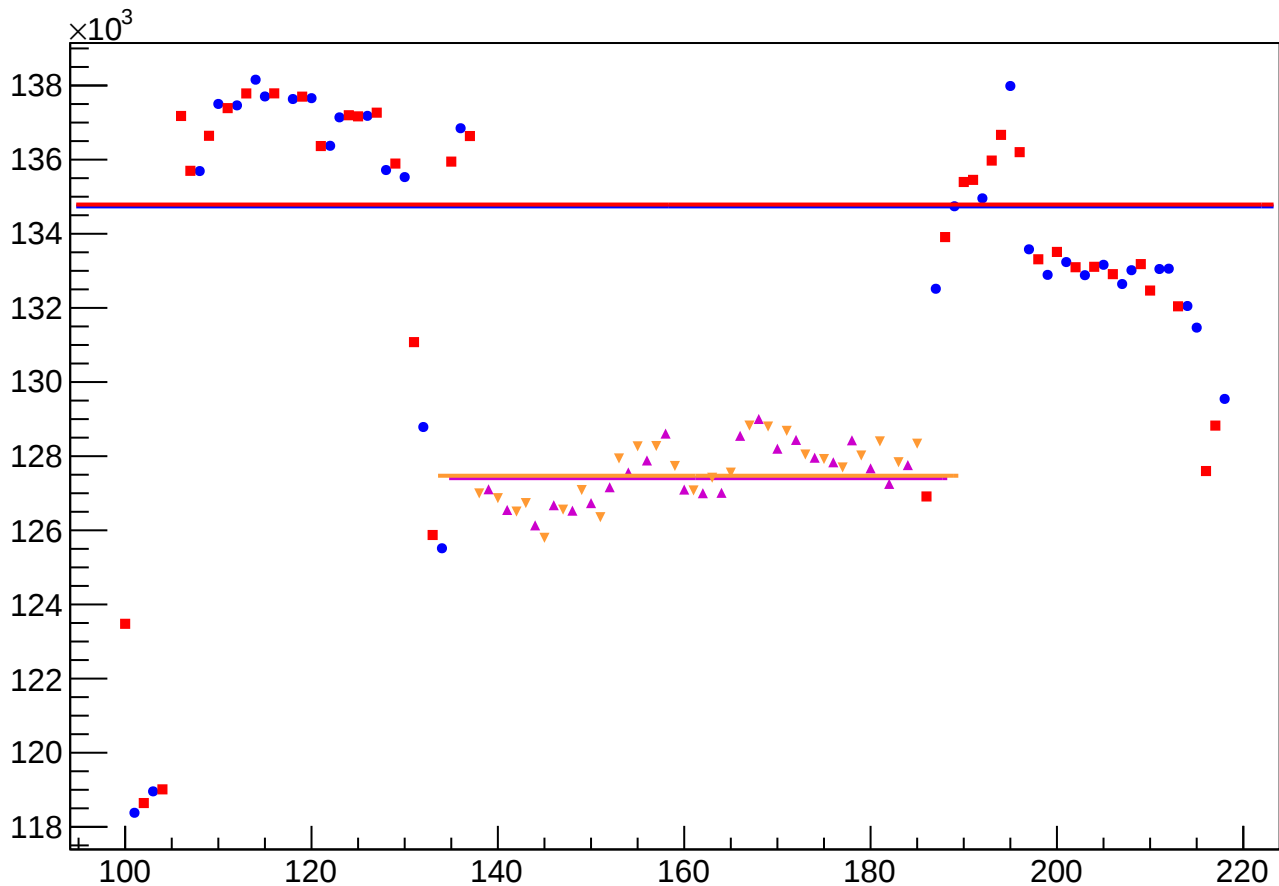
Right: 383.846 ± 0.051 $\chi^2/\text{NDF}: 3558070.8/68$

In: 432.174 ± 0.058 $\chi^2/\text{NDF}: 4729558.6/55$

Out: 449.134 ± 0.058 $\chi^2/\text{NDF}: 4834397.4/60$

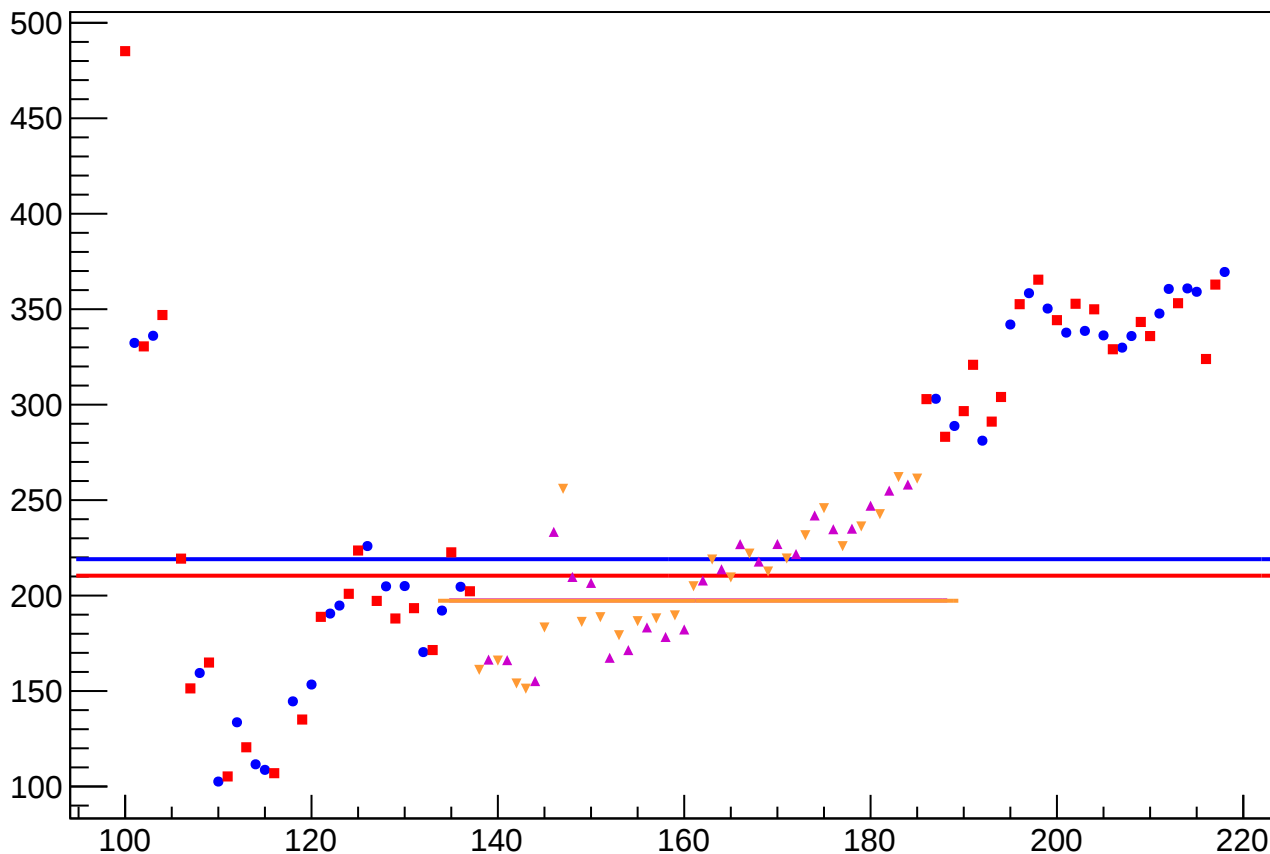
All: 440.572 ± 0.041 $\chi^2/\text{NDF}: 9606454.6/116$

yield_bpm0l04WS_mean vs Slug, Sign Corrected



Right In: 134738.211+/-0.056	χ^2/NDF : 5176860874.4/32	Left: 127440.757+/-0.034	χ^2/NDF : 574486725.7/47
Left Out: 127472.525+/-0.047	χ^2/NDF : 303609315.6/24	Right: 134764.717+/-0.039	χ^2/NDF : 11055281896.0/32
Right Out: 134788.719+/-0.054	χ^2/NDF : 5877999889.0/35	In: 130514.493+/-0.037	χ^2/NDF : 15187096707.7/50
Left In: 127406.911+/-0.048	χ^2/NDF : 269927988.0/22	Out: 130638.060+/-0.035	χ^2/NDF : 16730483382.7/32
		All: 130578.707+/-0.025	χ^2/NDF : 319234683.0/22

yield_bpm0l04WS_rms vs Slug, Sign Corrected



Right In: 219.061 $\pm$ 0.040 χ^2 /NDF: 5392752.2/32

Left Out: 197.289 $\pm$ 0.033 χ^2 /NDF: 852024.1/24

Right Out: 210.419 $\pm$ 0.038 χ^2 /NDF: 5732959.1/35

Left In: 197.471 $\pm$ 0.034 χ^2 /NDF: 791577.5/22

Left: 197.377 $\pm$ 0.024 χ^2 /NDF: 1643616.2/47

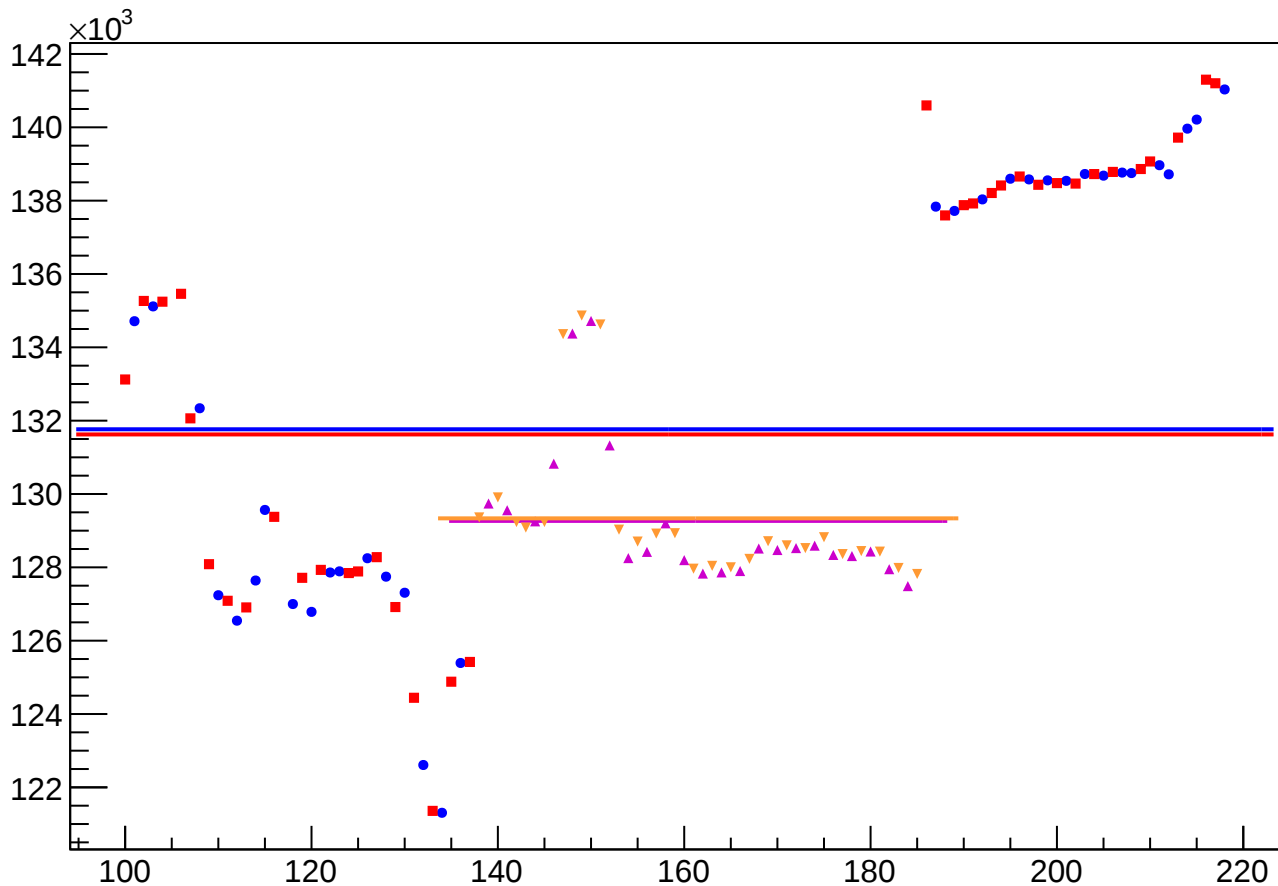
Right: 214.526 $\pm$ 0.027 χ^2 /NDF: 11150373.7/68

In: 206.623 $\pm$ 0.026 χ^2 /NDF: 6353282.6/55

Out: 202.970 $\pm$ 0.025 χ^2 /NDF: 6652926.8/60

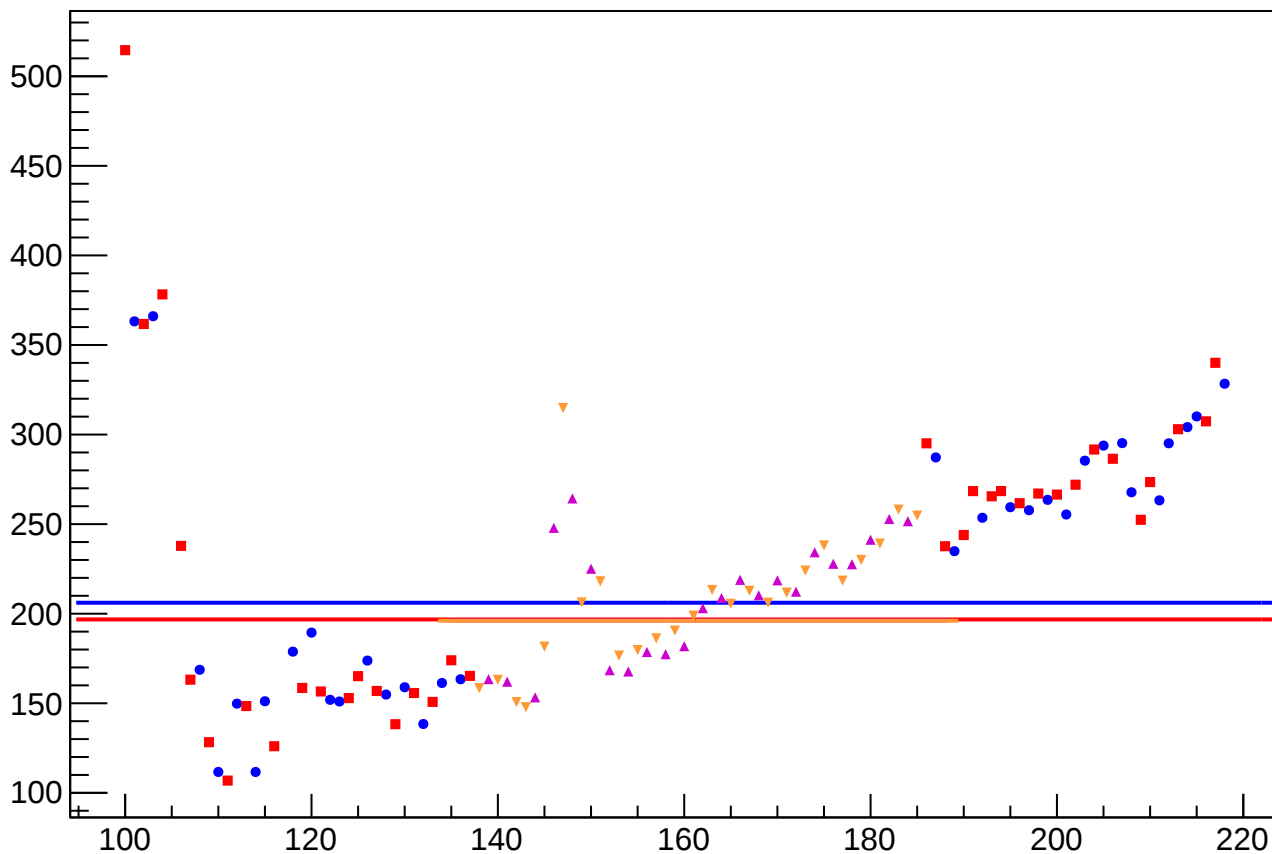
All: 204.725 $\pm$ 0.018 χ^2 /NDF: 13016500.3/13

yield_bpm0l05WS_mean vs Slug, Sign Corrected



Right In: 131765.336 $\pm$ 0.052	χ^2 /NDF: 14222928232.4/32	Left: 129302.466 $\pm$ 0.034	χ^2 /NDF: 2665755007.2/4
Left Out: 129335.946 $\pm$ 0.047	χ^2 /NDF: 1450933621.0/24	Right: 131691.271 $\pm$ 0.035	χ^2 /NDF: 29030385511.5
Right Out: 131624.413 $\pm$ 0.049	χ^2 /NDF: 14803522709.5/35	In: 130432.217 $\pm$ 0.035	χ^2 /NDF: 16692238618.9/5
Left In: 129266.909 $\pm$ 0.048	χ^2 /NDF: 1213762773.1/22	Out: 130427.380 $\pm$ 0.034	χ^2 /NDF: 17398401860.2
		All: 130429.702 $\pm$ 0.024	χ^2 /NDF: 340906503

yield_bpm0l05WS_rms vs Slug, Sign Corrected



Right In: 206.123+/-0.036 χ^2/NDF : 3463766.7/32

Left Out: 196.077+/-0.033 χ^2/NDF : 975710.9/24

Right Out: 196.804+/-0.035 χ^2/NDF : 4073688.7/35

Left In: 196.186+/-0.034 χ^2/NDF : 898058.0/22

Left: 196.130+/-0.024 χ^2/NDF : 1873774.2/47

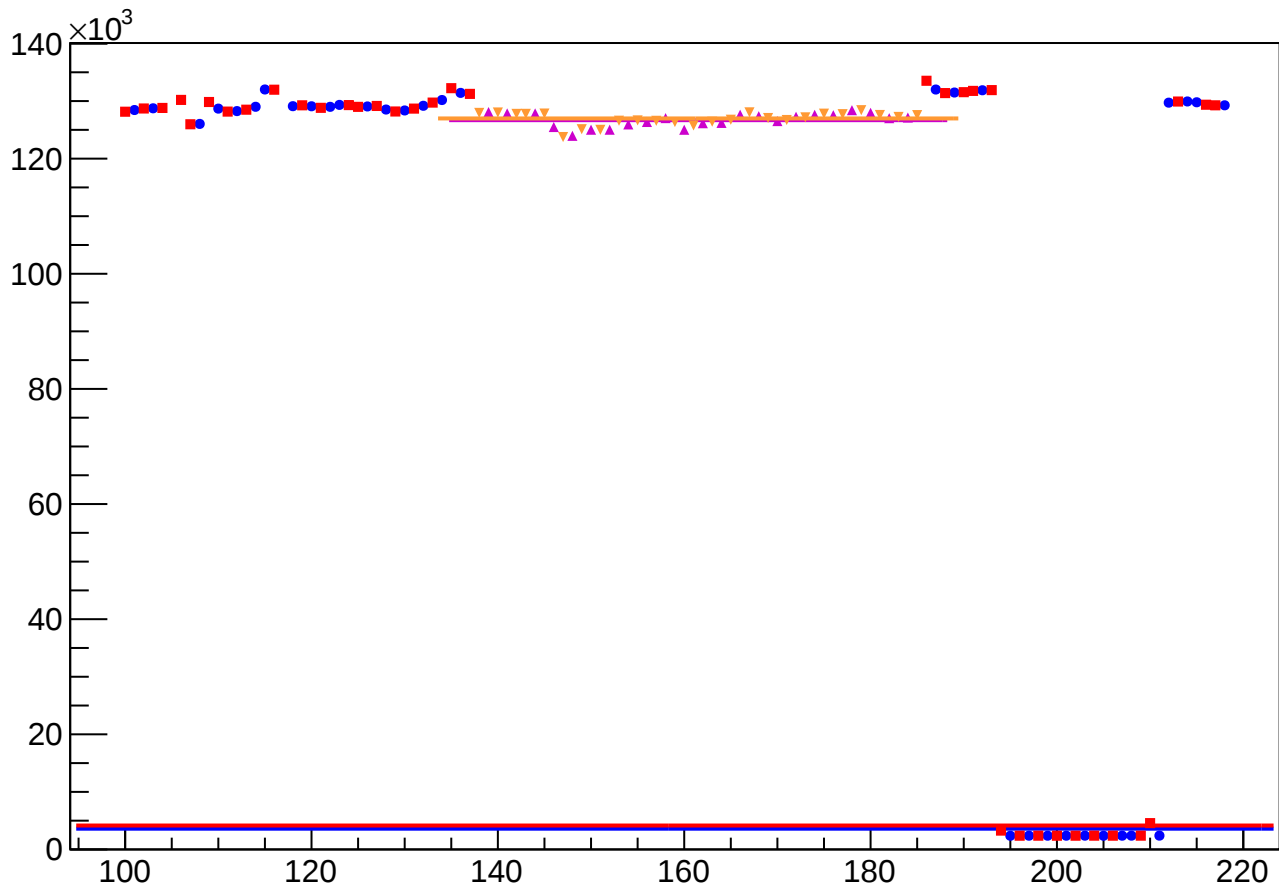
Right: 201.225+/-0.025 χ^2/NDF : 7571865.1/68

In: 200.821+/-0.025 χ^2/NDF : 4401547.1/55

Out: 196.424+/-0.024 χ^2/NDF : 5049630.4/60

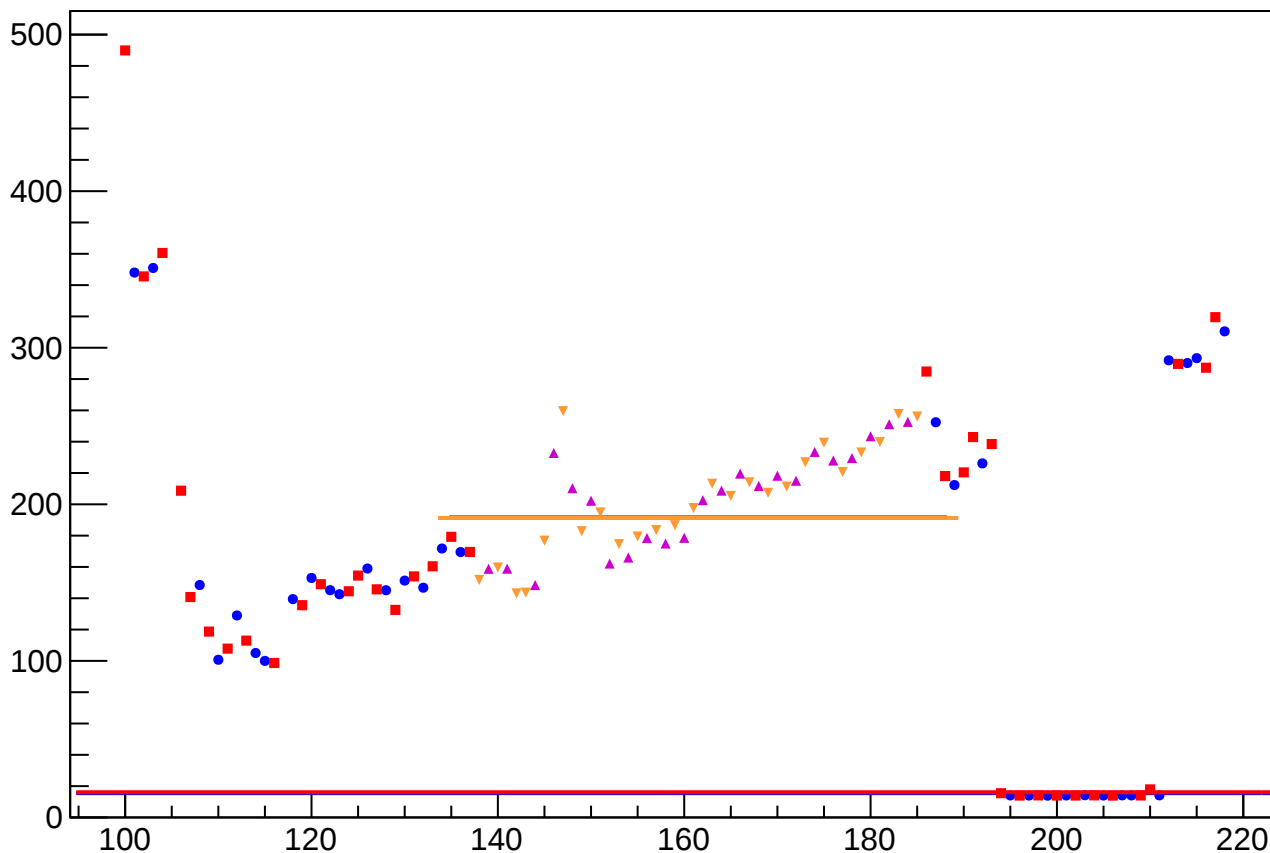
All: 198.534+/-0.017 χ^2/NDF : 9467427.3/116

yield_bpm0l06WS_mean vs Slug, Sign Corrected



Right In: 3608.019 ± 0.005 $\chi^2/\text{NDF}: 5425441127516.6/32$
 Left Out: 126981.724 ± 0.046 $\chi^2/\text{NDF}: 530573115.8/24$
 Right Out: 4157.427 ± 0.006 $\chi^2/\text{NDF}: 6194343036866.2/35$
 Left In: 126682.659 ± 0.047 $\chi^2/\text{NDF}: 660415880.0/22$
 All: 5608.746 ± 0.004 $\chi^2/\text{NDF}: 25571229694.2/100$

yield_bpm0l06WS_rms vs Slug, Sign Corrected



Right In: 15.536 $\pm$ 0.004 χ^2 /NDF: 18629649.7/32

Left Out: 191.263 $\pm$ 0.032 χ^2 /NDF: 992566.2/24

Right Out: 16.112 $\pm$ 0.004 χ^2 /NDF: 19486313.4/35

Left In: 191.683 $\pm$ 0.033 χ^2 /NDF: 864384.9/22

Left: 191.466 $\pm$ 0.023 χ^2 /NDF: 1857033.4/47

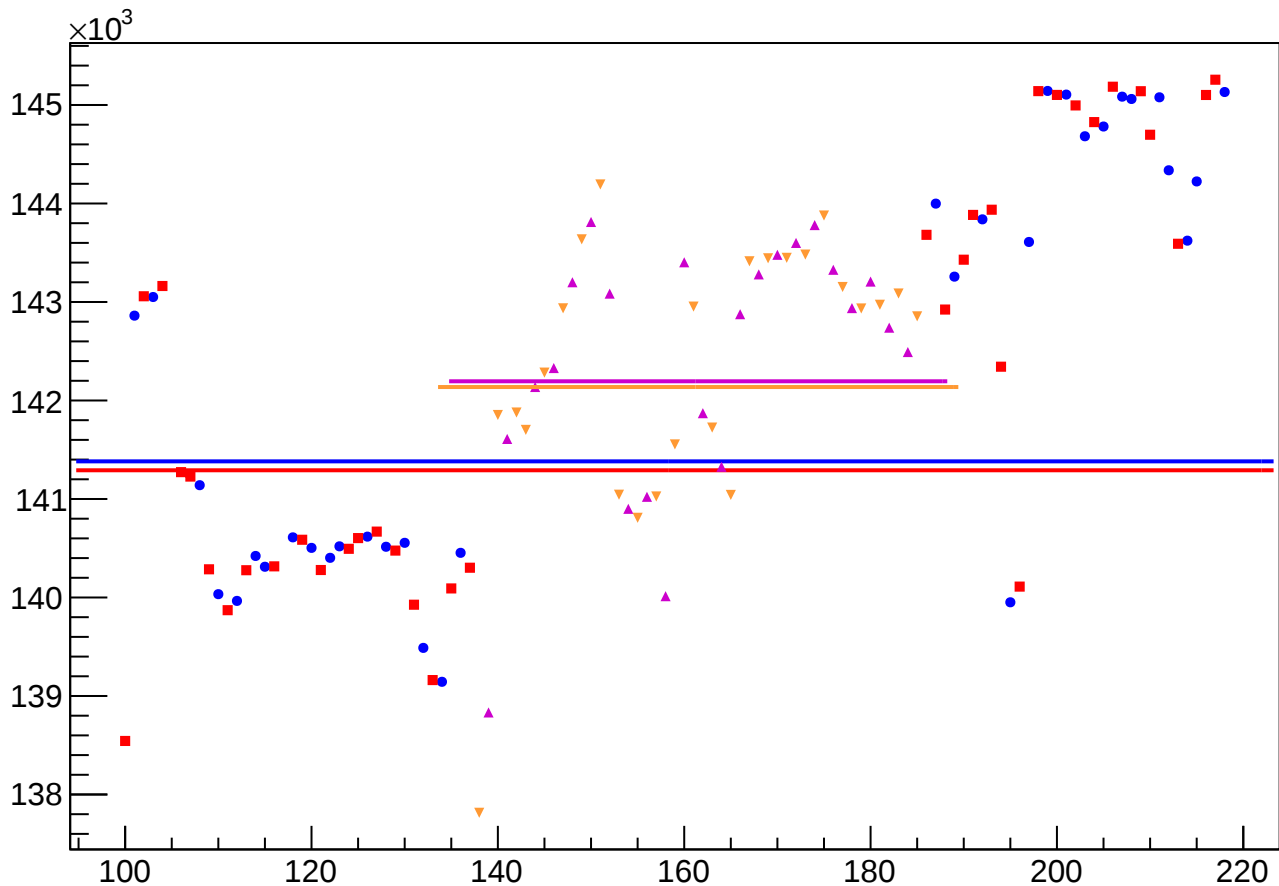
Right: 15.797 $\pm$ 0.003 χ^2 /NDF: 38126579.4/68

In: 17.758 $\pm$ 0.004 χ^2 /NDF: 47240111.5/55

Out: 18.954 $\pm$ 0.004 χ^2 /NDF: 49605960.6/60

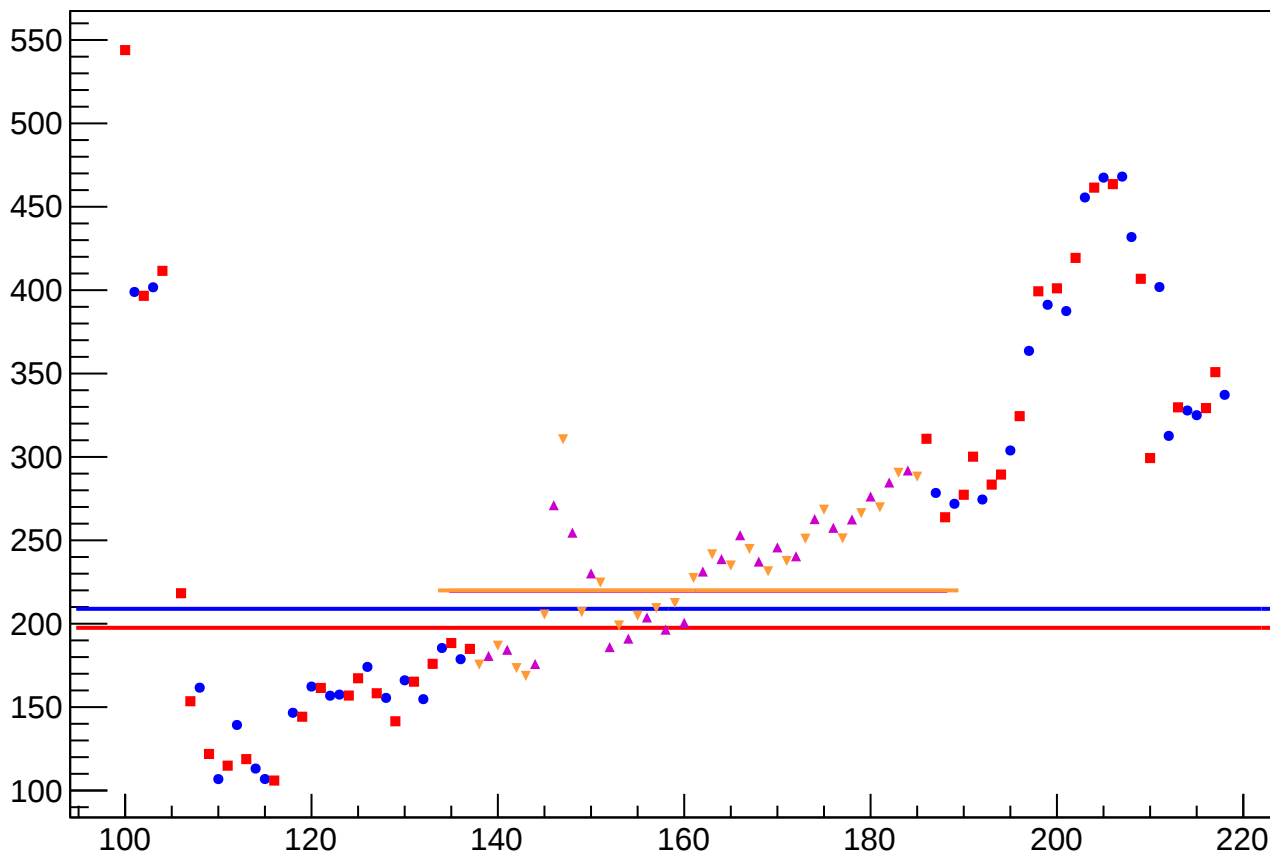
All: 18.300 $\pm$ 0.003 χ^2 /NDF: 96892604.8/116

yield_bpm0l07WS_mean vs Slug, Sign Corrected



Right In: 141382.063+/-0.055	χ^2/NDF : 1115471743.1/32	Left: 142164.953+/-0.038	χ^2/NDF : 1460209902.9/4
Left Out: 142136.579+/-0.052	χ^2/NDF : 815573343.0/24	Right: 141333.761+/-0.037	χ^2/NDF : 2300384578.1/4
Right Out: 141291.481+/-0.051	χ^2/NDF : 1183456146.2/35	In: 141795.589+/-0.038	χ^2/NDF : 1871430365.2/5
Left In: 142195.020+/-0.054	χ^2/NDF : 644030906.9/22	Out: 141705.461+/-0.037	χ^2/NDF : 2132098888.1/6
		All: 141748.373+/-0.027	χ^2/NDF : 400641286.1/1

yield_bpm0l07WS_rms vs Slug, Sign Corrected



Right In: 208.932+/-0.039 χ^2/NDF : 6653638.1/32

Left Out: 219.969+/-0.037 χ^2/NDF : 866616.3/24

Right Out: 197.543+/-0.036 χ^2/NDF : 6969408.7/35

Left In: 219.685+/-0.038 χ^2/NDF : 812745.1/22

Left: 219.831+/-0.027 χ^2/NDF : 1679390.1/47

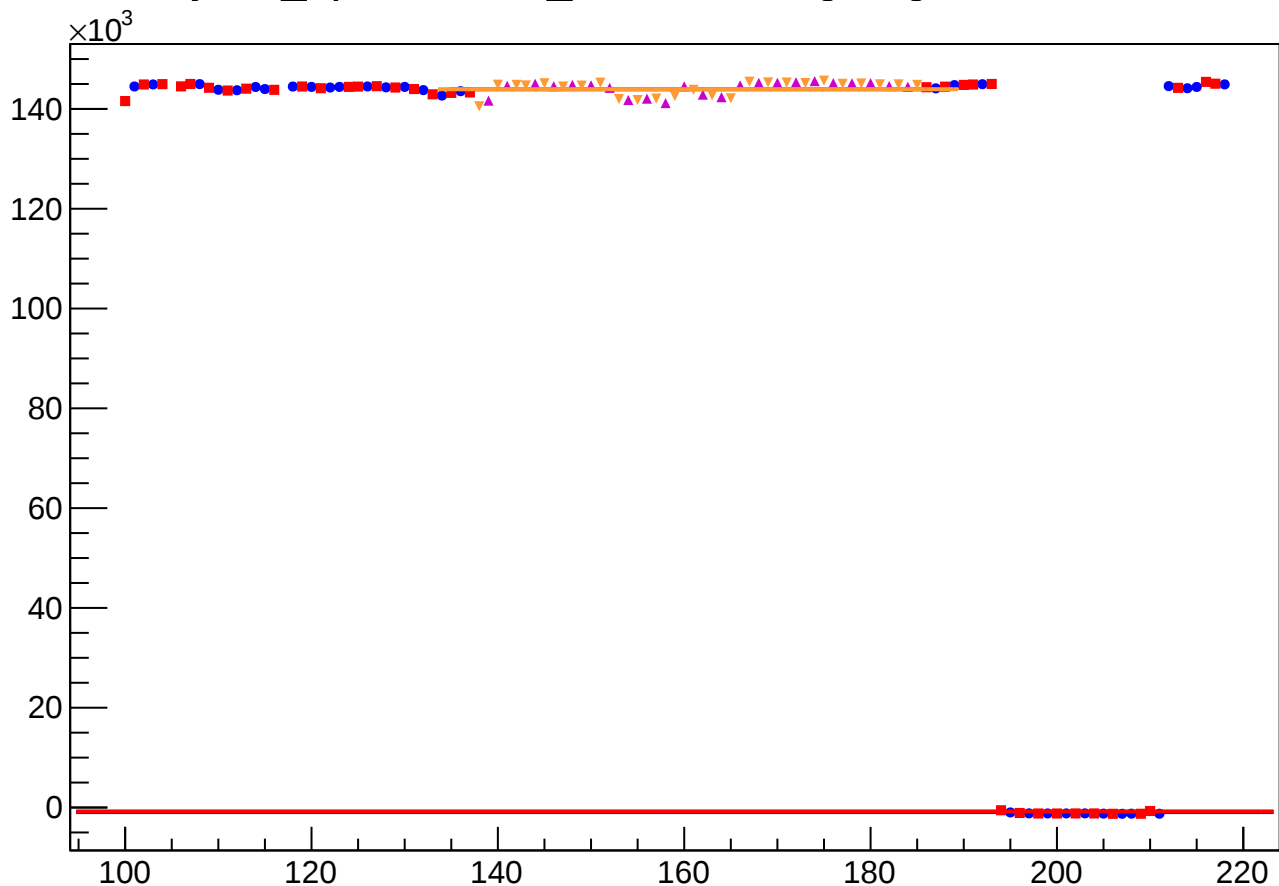
Right: 202.859+/-0.026 χ^2/NDF : 13669107.4/68

In: 214.402+/-0.027 χ^2/NDF : 7505541.8/55

Out: 208.529+/-0.026 χ^2/NDF : 8023442.3/60

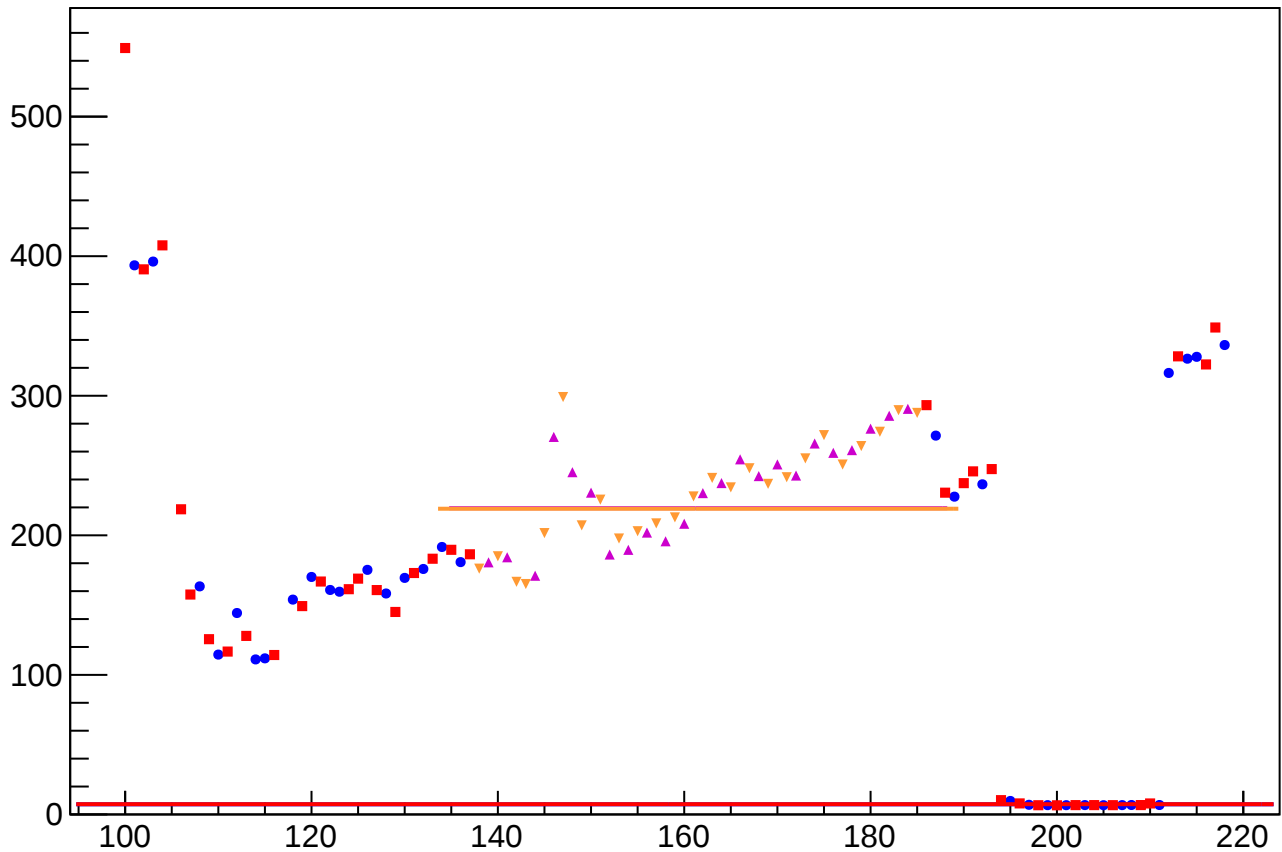
All: 211.325+/-0.019 χ^2/NDF : 15553473.7/11

yield_bpm0l08WS_mean vs Slug, Sign Corrected



Right In: -912.607 $\pm$ 0.003	χ^2 /NDF: 5886682935094.5/32	Left: 143944.995 $\pm$ 0.037	χ^2 /NDF: 1584524299.4/32
Left Out: 143951.284 $\pm$ 0.052	χ^2 /NDF: 864679545.2/24	Right: -854.495 $\pm$ 0.002	χ^2 /NDF: 12704743564011.7/24
Right Out: -784.434 $\pm$ 0.003	χ^2 /NDF: 6816988484241.7/35	In: -566.302 $\pm$ 0.003	χ^2 /NDF: 13108004737059.5/35
Left In: 143938.288 $\pm$ 0.054	χ^2 /NDF: 719814685.6/22	Out: -339.808 $\pm$ 0.003	χ^2 /NDF: 14501107481309.3/22
		All: -463.575 $\pm$ 0.002	χ^2 /NDF: 27612469367.7/73

yield_bpm0l08WS_rms vs Slug, Sign Corrected



Right In: 7.254 ± 0.002 χ^2/NDF : 20597693.6/32

Left Out: 219.050 ± 0.037 χ^2/NDF : 934417.6/24

Right Out: 7.356 ± 0.002 χ^2/NDF : 21624204.6/35

Left In: 219.426 ± 0.038 χ^2/NDF : 850089.5/22

Left: 219.232 ± 0.026 χ^2/NDF : 1784557.4/47

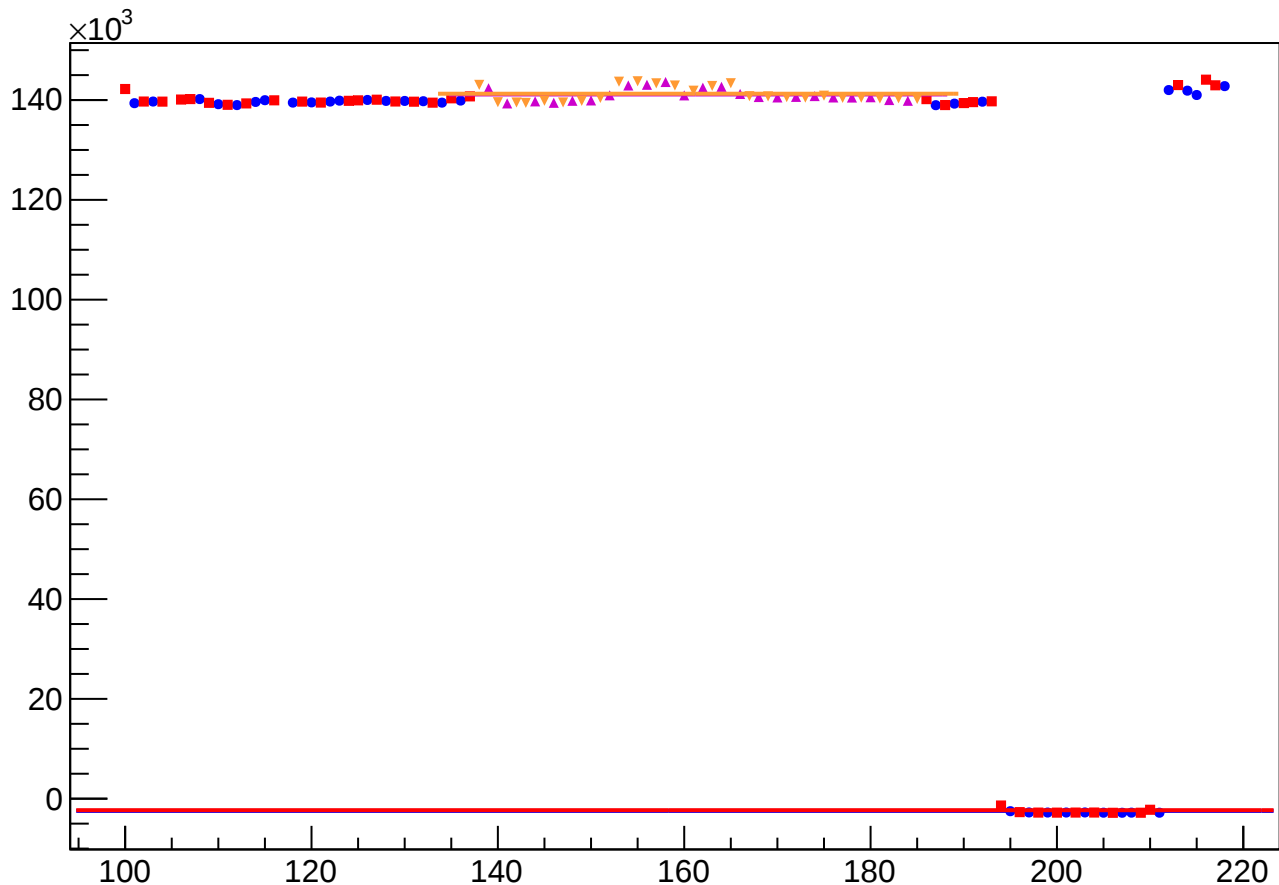
Right: 7.300 ± 0.001 χ^2/NDF : 42223264.8/68

In: 7.761 ± 0.002 χ^2/NDF : 52431828.4/55

Out: 8.006 ± 0.002 χ^2/NDF : 55431688.5/60

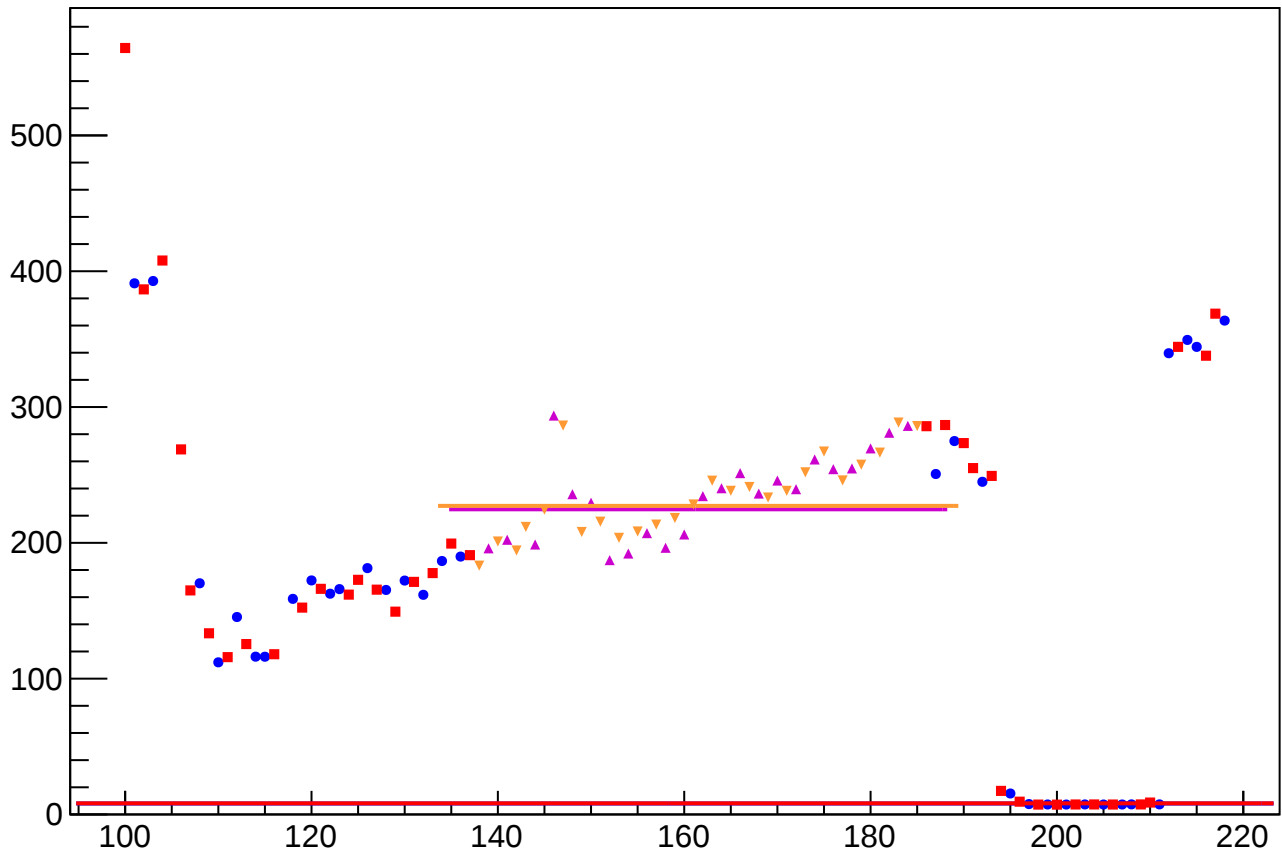
All: 7.872 ± 0.001 χ^2/NDF : 107871398.1/116

yield_bpm0l09WS_mean vs Slug, Sign Corrected



Right In: -2451.307 $\pm$ 0.003	χ^2/NDF : 5372698604811.0/32	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: -2387.113 $\pm$ 0.002	χ^2/NDF : 1153941497415
Right Out: -2309.675 $\pm$ 0.003	χ^2/NDF : 6165671273033.6/35	In: -2038.319 $\pm$ 0.003	χ^2/NDF : 12188791659370.5
Left In: 141119.484 $\pm$ 0.055	χ^2/NDF : 565312728.1/22	Out: -1789.031 $\pm$ 0.003	χ^2/NDF : 13289564494976
		All: -1925.284 $\pm$ 0.002	χ^2/NDF : 2548160451

yield_bpm0l09WS_rms vs Slug, Sign Corrected



Right In: 8.053 ± 0.002 χ^2/NDF : 20732047.0/32

Left Out: 227.224 ± 0.038 χ^2/NDF : 484955.3/24

Right Out: 8.186 ± 0.002 χ^2/NDF : 21650188.0/35

Left In: 224.686 ± 0.039 χ^2/NDF : 578366.0/22

Left: 225.984 ± 0.027 χ^2/NDF : 1065504.5/47

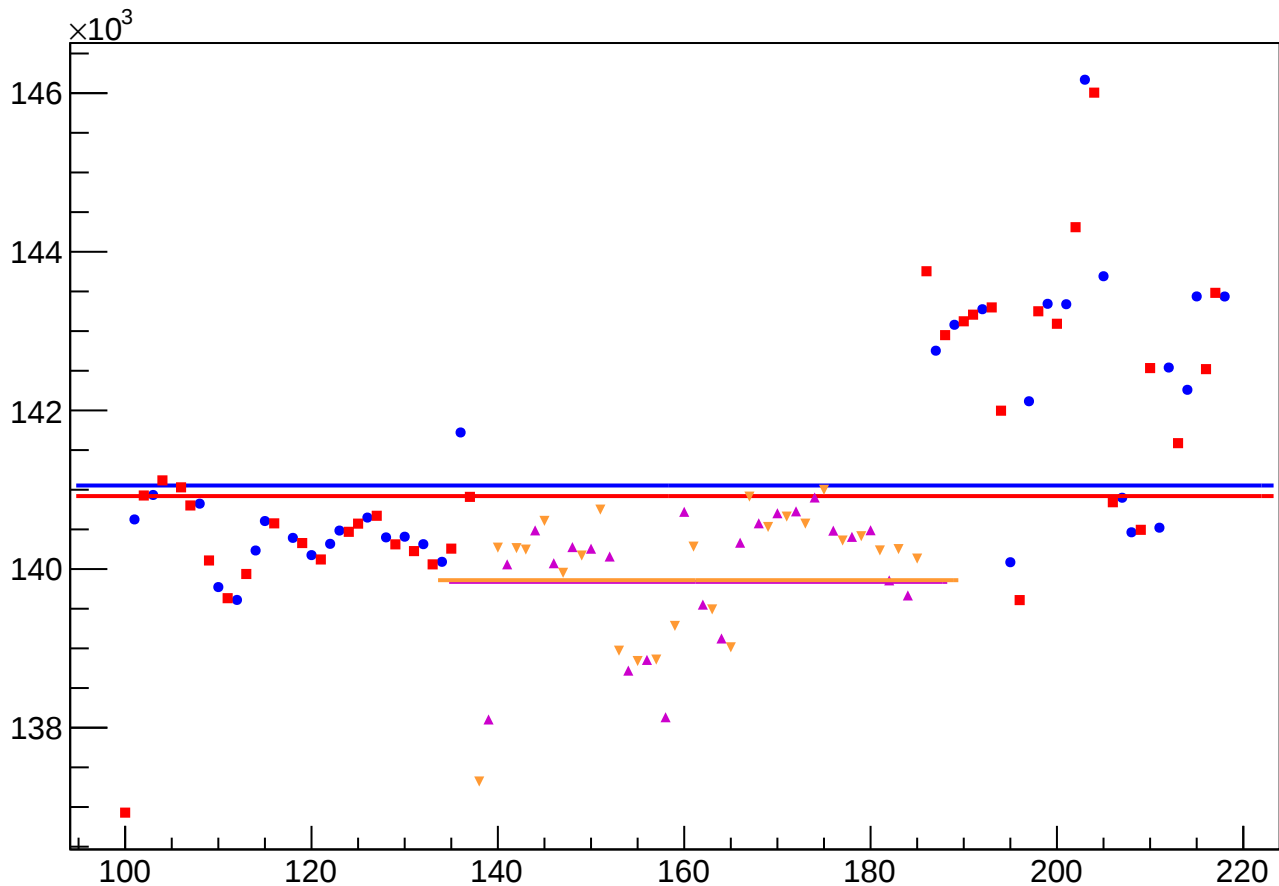
Right: 8.113 ± 0.002 χ^2/NDF : 42384077.0/68

In: 8.676 ± 0.002 χ^2/NDF : 52345136.0/55

Out: 8.980 ± 0.002 χ^2/NDF : 55290928.0/60

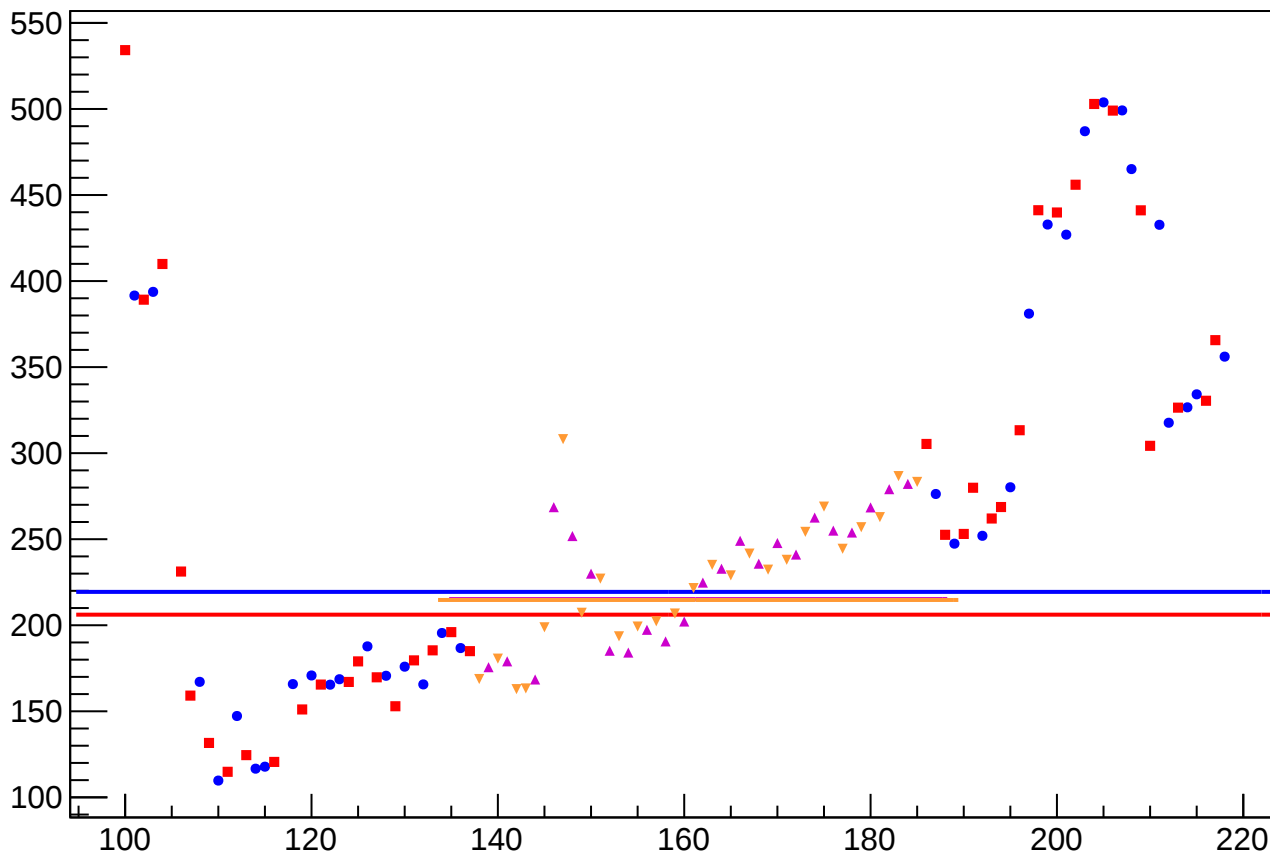
All: 8.814 ± 0.002 χ^2/NDF : 107645730.4/116

yield_bpm0l10WS_mean vs Slug, Sign Corrected



Right In: 141053.403 $\pm$ 0.057	χ^2/NDF : 534227064.4/32	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: 140981.726 $\pm$ 0.039	χ^2/NDF : 1122830292.8/6
Right Out: 140920.036 $\pm$ 0.053	χ^2/NDF : 585695167.3/35	In: 140396.131 $\pm$ 0.039	χ^2/NDF : 1056678502.4/55
Left In: 139838.724 $\pm$ 0.053	χ^2/NDF : 279573689.3/22	Out: 140368.597 $\pm$ 0.037	χ^2/NDF : 1122488308.7/6
		All: 140381.640 $\pm$ 0.027	χ^2/NDF : 217943130

yield_bpm0l10WS_rms vs Slug, Sign Corrected



Right In: 219.390 $\pm$ 0.041 χ^2 /NDF: 6338073.4/32

Left Out: 214.693 $\pm$ 0.036 χ^2 /NDF: 981105.5/24

Right Out: 206.150 $\pm$ 0.038 χ^2 /NDF: 6545357.5/35

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

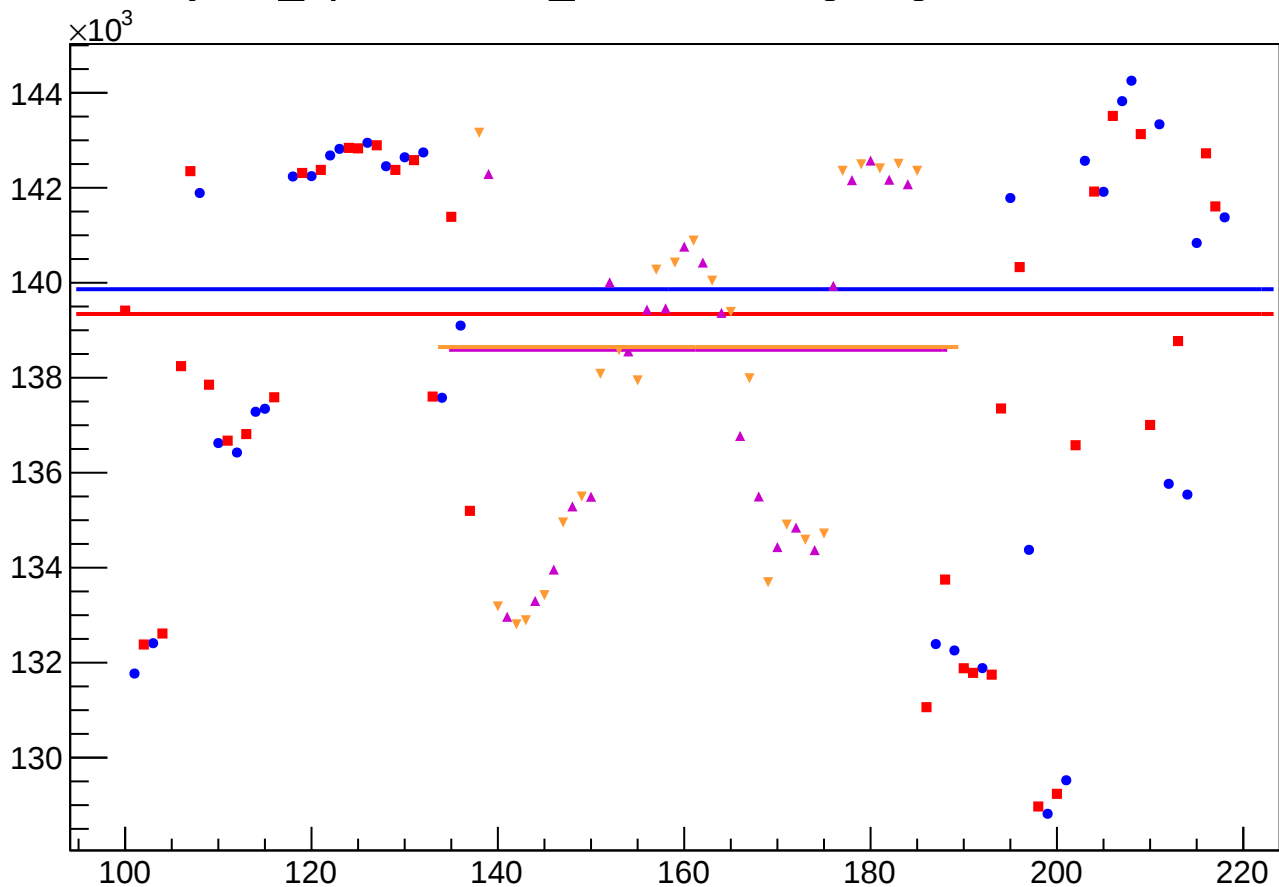
Right: 212.274 $\pm$ 0.028 χ^2 /NDF: 12940751.2/68

In: 217.135 $\pm$ 0.027 χ^2 /NDF: 7225738.6/55

Out: 210.593 $\pm$ 0.026 χ^2 /NDF: 7553291.7/60

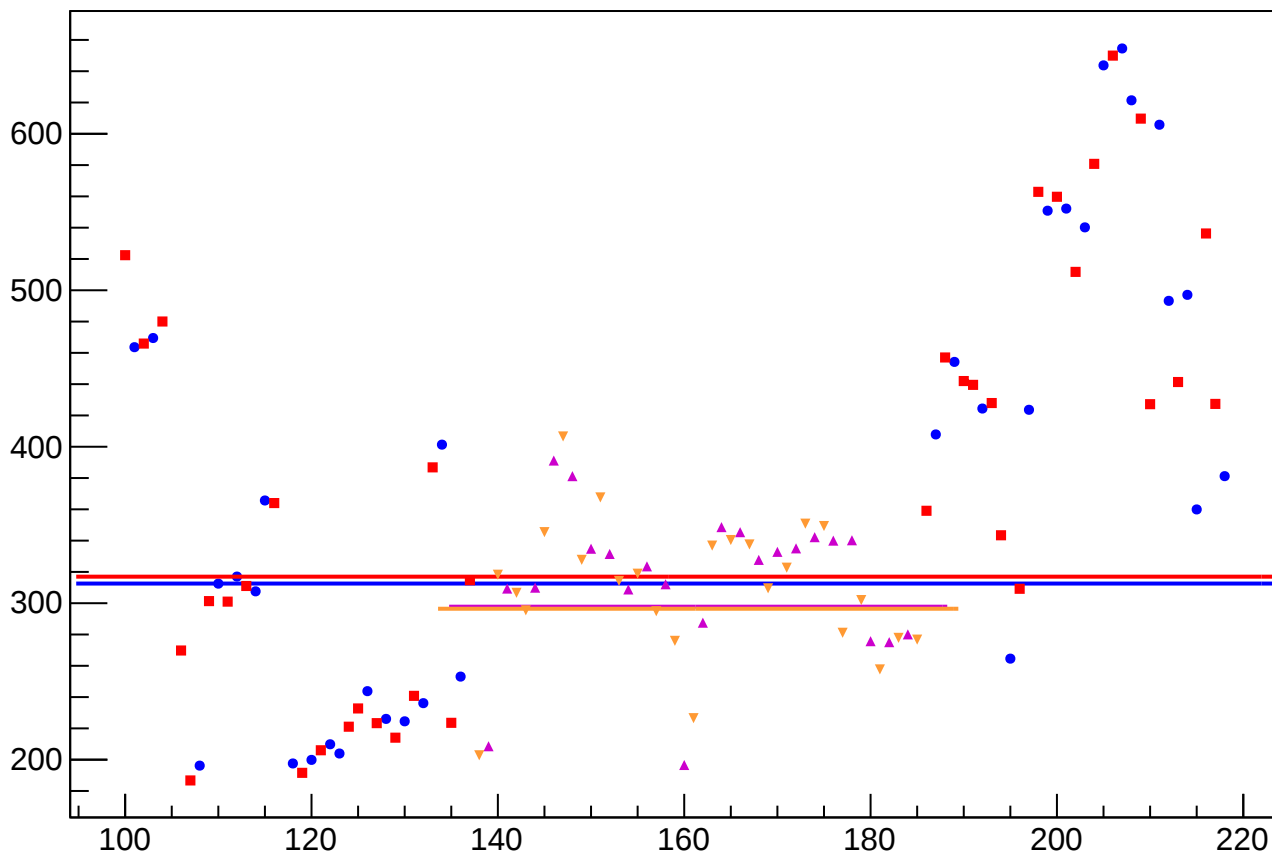
All: 213.692 $\pm$ 0.019 χ^2 /NDF: 14808891.1/11

yield_bpm0r03WS_mean vs Slug, Sign Corrected



Right In: 139864.078 $\pm$ 0.080	χ^2 /NDF: 2404750059.7/32	Left: 138618.660 $\pm$ 0.051	χ^2 /NDF: 4497021019.3/4
Left Out: 138646.366 $\pm$ 0.071	χ^2 /NDF: 2548637600.4/24	Right: 139601.564 $\pm$ 0.057	χ^2 /NDF: 4910454400.3/
Right Out: 139342.787 $\pm$ 0.080	χ^2 /NDF: 2484547817.1/35	In: 139170.525 $\pm$ 0.054	χ^2 /NDF: 4489565180.9/5
Left In: 138588.711 $\pm$ 0.074	χ^2 /NDF: 1948065195.1/22	Out: 138953.129 $\pm$ 0.053	χ^2 /NDF: 5075744440.0/6
		All: 139059.144 $\pm$ 0.038	χ^2 /NDF: 957351548

yield_bpm0r03WS_rms vs Slug, Sign Corrected



Right In: 312.562 $\pm$ 0.057 χ^2 /NDF: 5016930.2/32

Left Out: 296.464 $\pm$ 0.050 χ^2 /NDF: 893579.7/24

Right Out: 316.965 $\pm$ 0.056 χ^2 /NDF: 4714762.1/35

Left In: 297.774 $\pm$ 0.052 χ^2 /NDF: 1061489.5/22

Left: 297.094 $\pm$ 0.036 χ^2 /NDF: 1955397.8/47

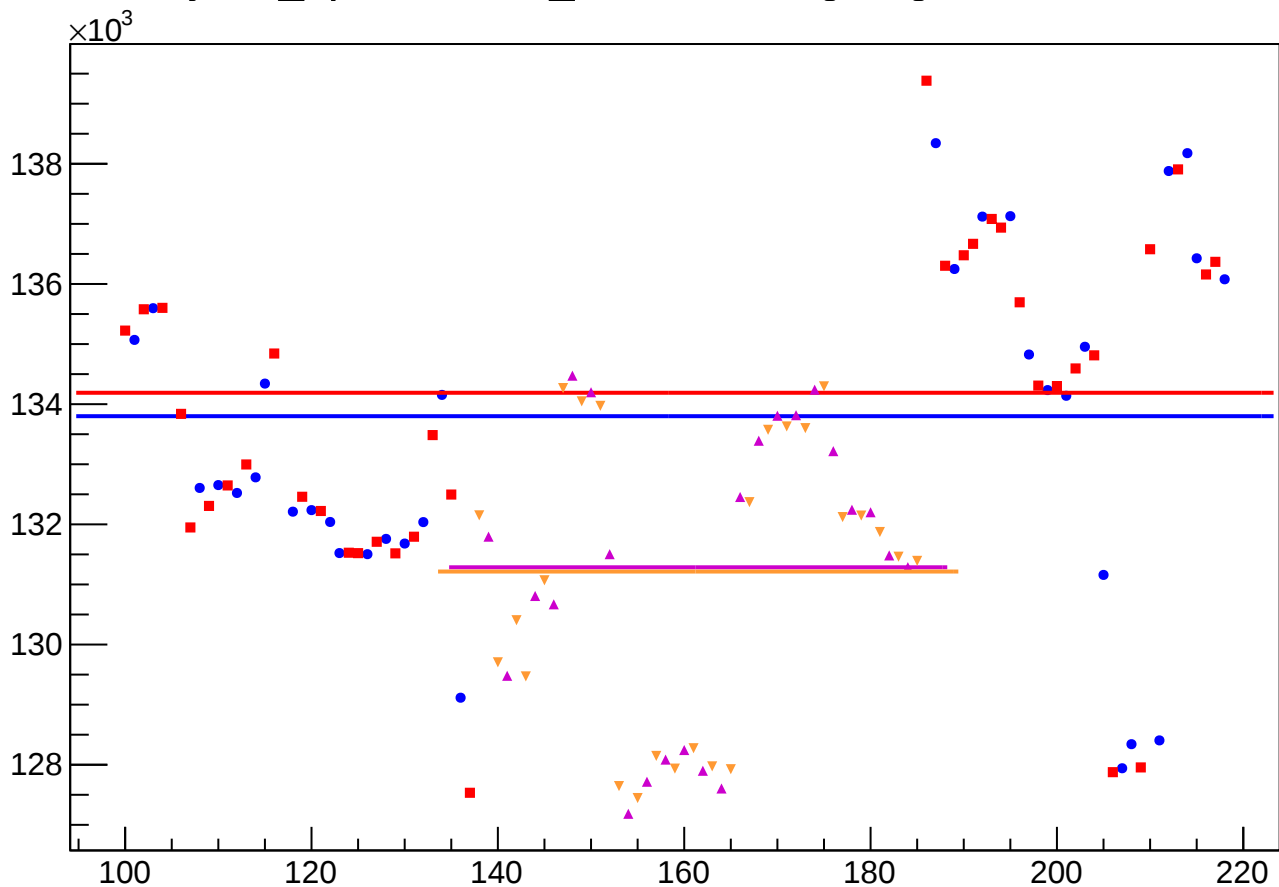
Right: 314.780 $\pm$ 0.040 χ^2 /NDF: 9734711.2/68

In: 304.521 $\pm$ 0.038 χ^2 /NDF: 6115190.2/55

Out: 305.495 $\pm$ 0.037 χ^2 /NDF: 5682102.9/60

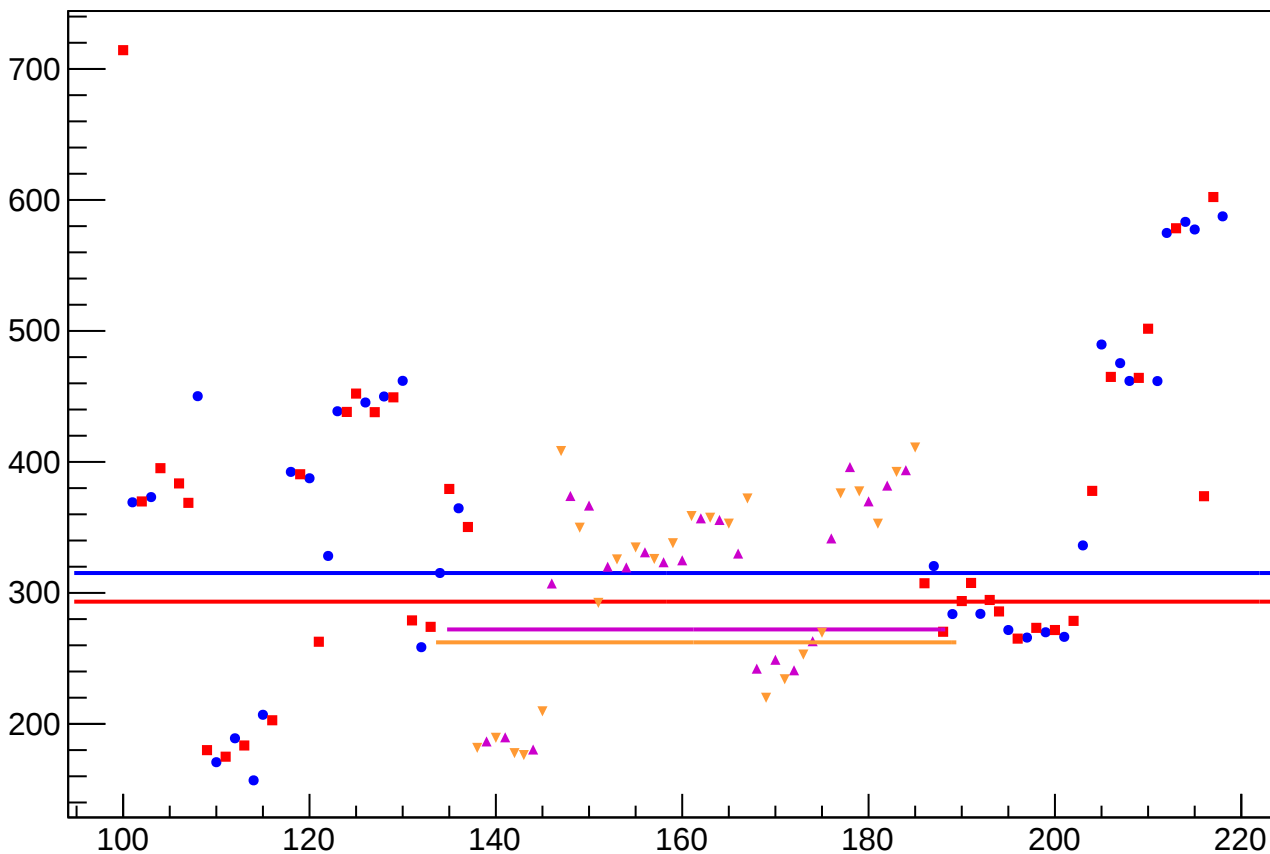
All: 305.020 $\pm$ 0.027 χ^2 /NDF: 11797622.7/117

yield_bpm0r05WS_mean vs Slug, Sign Corrected



Right In: 133800.088 $\pm$ 0.079	χ^2 /NDF: 1046183829.4/32	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: 134011.717 $\pm$ 0.053	χ^2 /NDF: 2112523171.9/6
Right Out: 134189.806 $\pm$ 0.072	χ^2 /NDF: 1053050259.1/35	In: 132365.234 $\pm$ 0.052	χ^2 /NDF: 2683747588.6/5
Left In: 131285.623 $\pm$ 0.068	χ^2 /NDF: 1056232192.1/22	Out: 132529.783 $\pm$ 0.048	χ^2 /NDF: 3172020807.1/6
		All: 132453.405 $\pm$ 0.035	χ^2 /NDF: 586121305

yield_bpm0r05WS_rms vs Slug, Sign Corrected



Right In: 315.181+/-0.056 χ^2/NDF : 3773320.7/32

Left Out: 262.260+/-0.045 χ^2/NDF : 2818169.1/24

Right Out: 293.326+/-0.051 χ^2/NDF : 3431593.0/35

Left In: 272.115+/-0.048 χ^2/NDF : 2221925.0/22

Left: 266.889+/-0.033 χ^2/NDF : 5062151.8/47

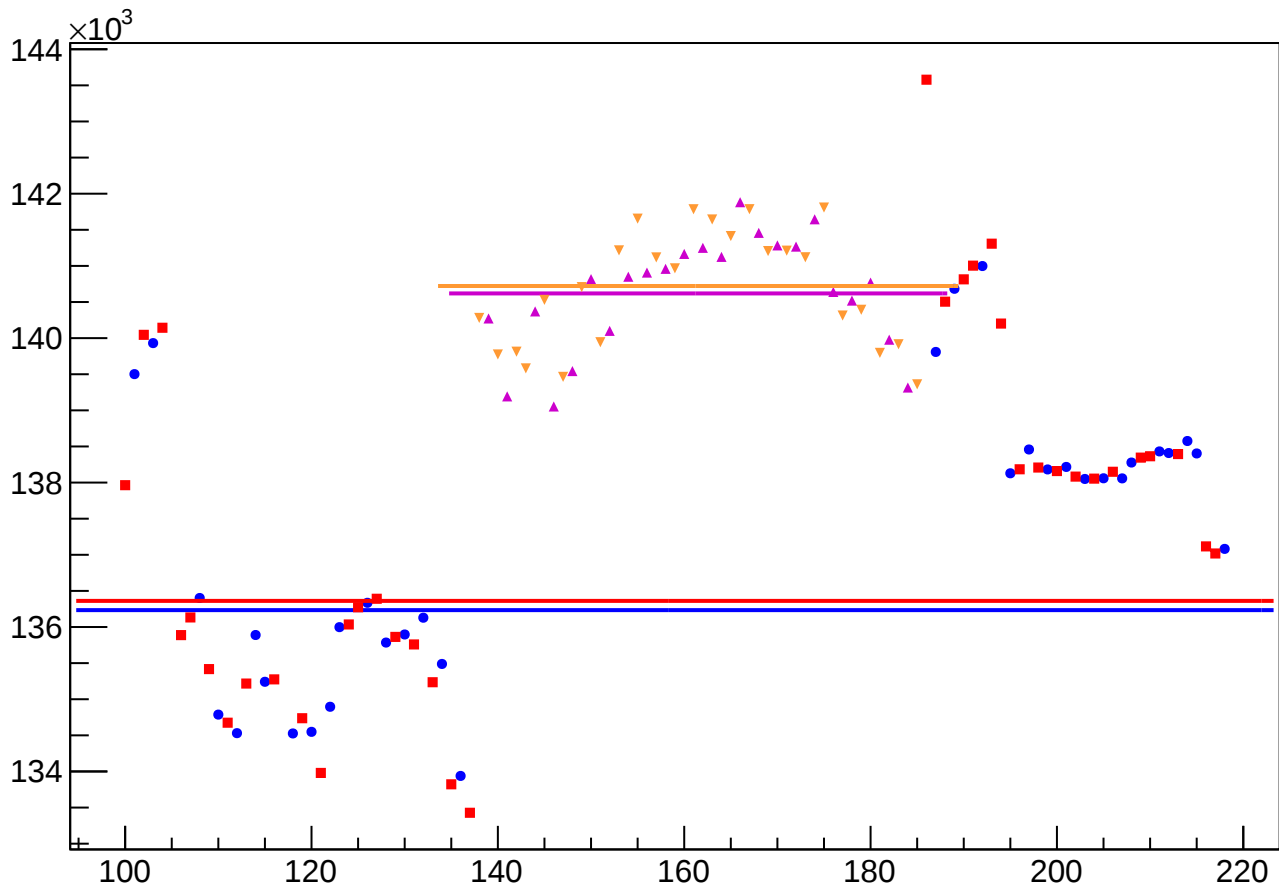
Right: 303.313+/-0.038 χ^2/NDF : 7288493.5/68

In: 290.606+/-0.037 χ^2/NDF : 6336308.7/55

Out: 275.990+/-0.034 χ^2/NDF : 6456008.1/60

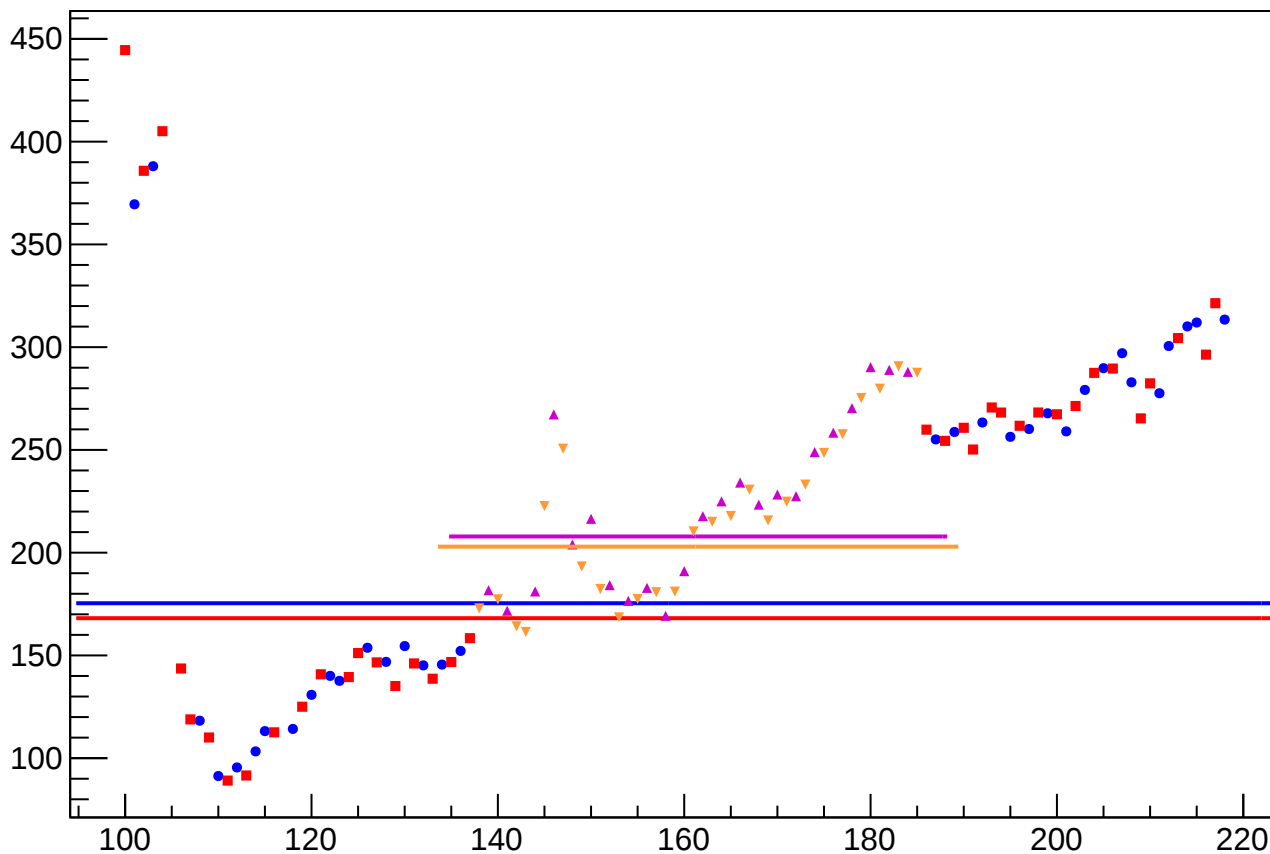
All: 282.774+/-0.025 χ^2/NDF : 12878221.8/121

yield_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 136233.811 $\pm$ 0.045	χ^2 /NDF: 1671054208.5/32	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: 136300.956 $\pm$ 0.031	χ^2 /NDF: 3893910887.6/67
Right Out: 136361.797 $\pm$ 0.043	χ^2 /NDF: 2218696306.6/35	In: 138171.227 $\pm$ 0.034	χ^2 /NDF: 5984580454.0/55
Left In: 140619.038 $\pm$ 0.051	χ^2 /NDF: 200370178.0/22	Out: 138297.911 $\pm$ 0.032	χ^2 /NDF: 6976173896.0/67
		All: 138237.817 $\pm$ 0.023	χ^2 /NDF: 129680708.0/100

yield_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 175.397 $\pm$ 0.032 χ^2 /NDF: 5984097.7/32

Left Out: 202.934 $\pm$ 0.034 χ^2 /NDF:1052283.6/24

Right Out: 168.112 $\pm$ 0.031 χ^2 /NDF: 6379048.8/35

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

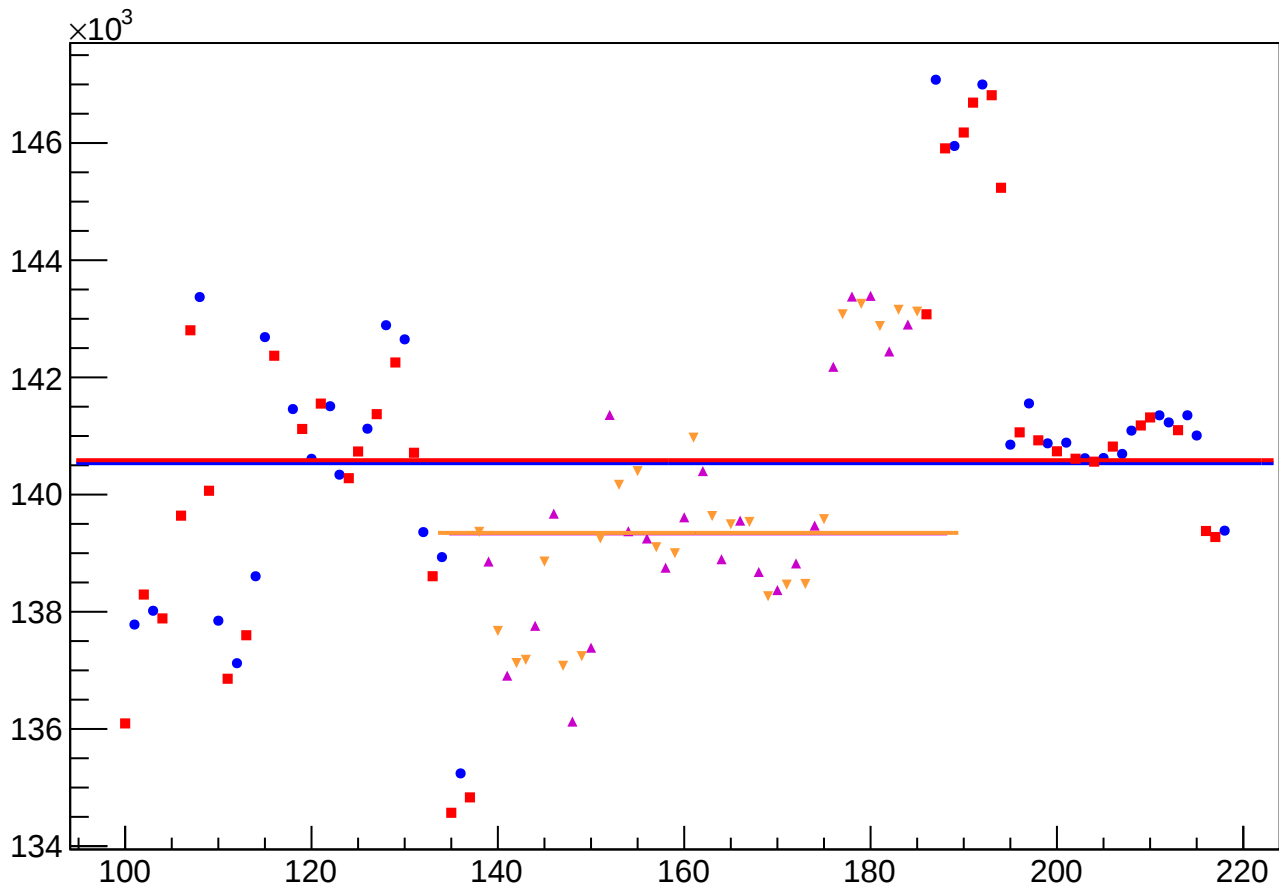
Right: 171.575 $\pm$ 0.022 χ^2 /NDF: 12390104.1/68

In: 189.745 $\pm$ 0.024 χ^2 /NDF:7384443.9/55

Out: 183.575 $\pm$ 0.023 χ^2 /NDF:8006712.8/60

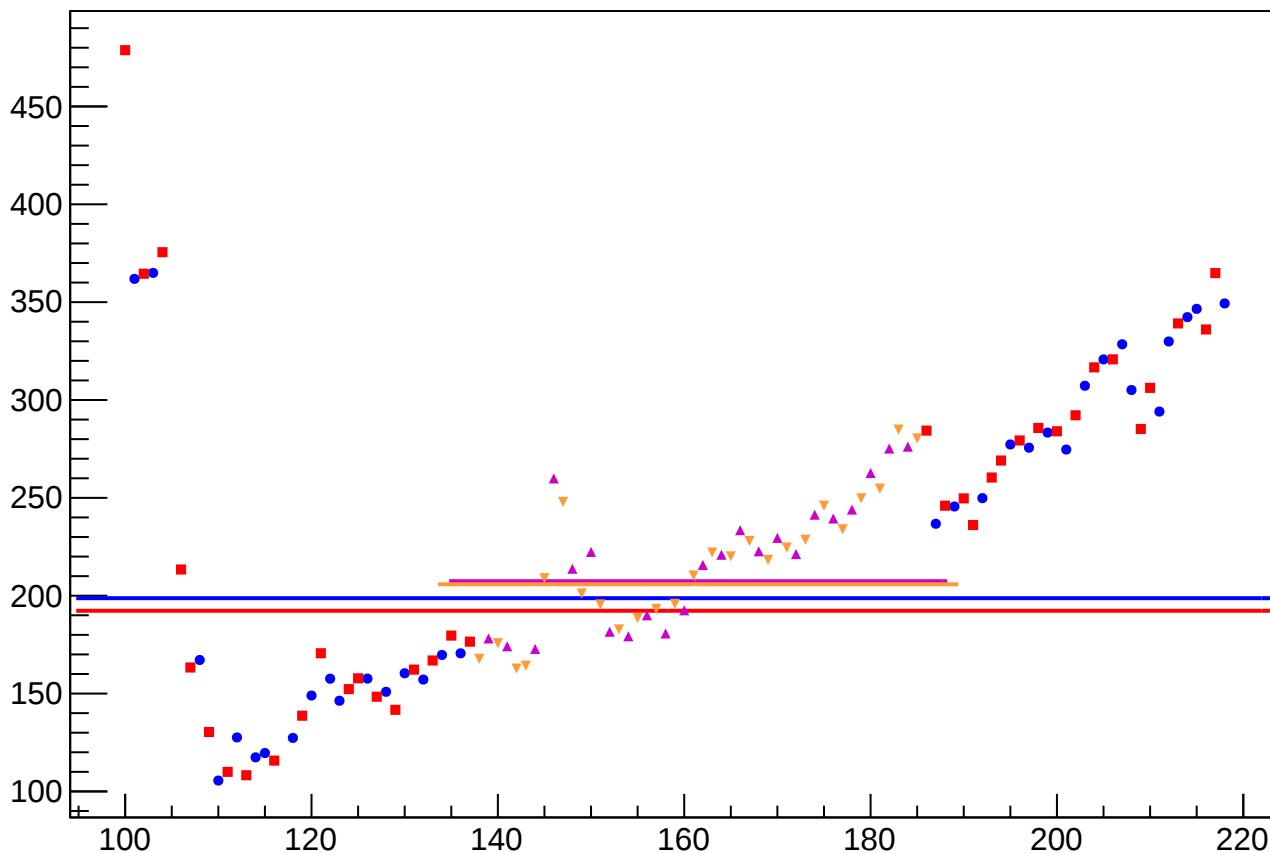
All: 186.502 $\pm$ 0.017 χ^2 /NDF: 15425860.2/117

yield_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 140535.992 $\pm$ 0.051 χ^2 /NDF: 2797334035.5/32
 Left Out: 139346.604 $\pm$ 0.049 χ^2 /NDF: 1271172976.7/24
 Right Out: 140586.863 $\pm$ 0.049 χ^2 /NDF: 3239063834.2/35
 Left In: 139337.874 $\pm$ 0.051 χ^2 /NDF: 1293003954.9/22
 Left: 139342.403 $\pm$ 0.035 χ^2 /NDF: 2564192227.9/4
 Right: 140562.494 $\pm$ 0.035 χ^2 /NDF: 6036923724.4/4
 In: 139939.349 $\pm$ 0.036 χ^2 /NDF: 4369160087.6/5
 Out: 139971.971 $\pm$ 0.034 χ^2 /NDF: 4833736056.0/6
 All: 139956.308 $\pm$ 0.025 χ^2 /NDF: 920332598

yield_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 198.740 $\pm$ 0.036 χ^2 /NDF: 4912161.5/32

Left Out: 205.833 $\pm$ 0.035 χ^2 /NDF: 738666.4/24

Right Out: 192.315 $\pm$ 0.034 χ^2 /NDF: 5192142.5/35

Left In: 207.416 $\pm$ 0.036 χ^2 /NDF: 701955.3/22

Left: 206.595 $\pm$ 0.025 χ^2 /NDF: 1441628.2/47

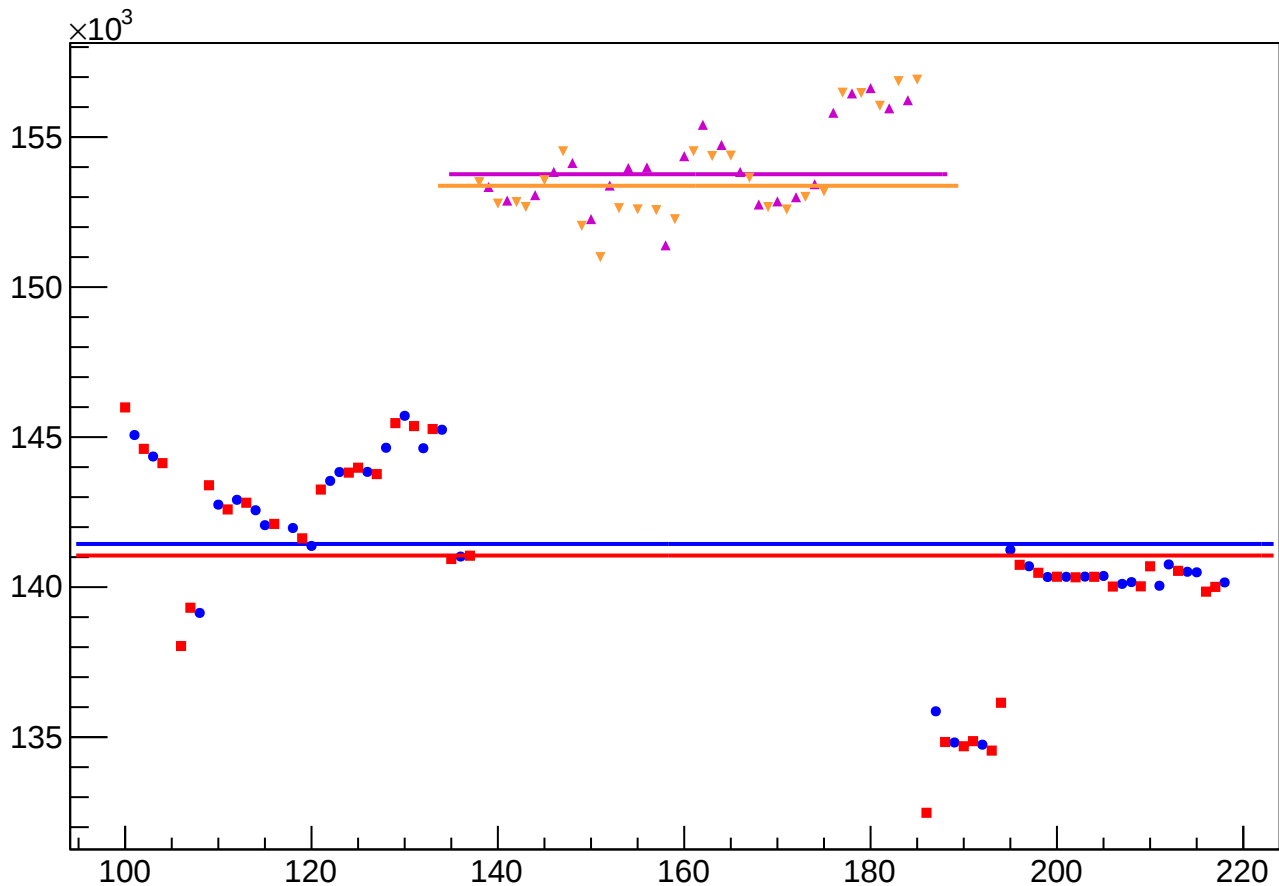
Right: 195.393 $\pm$ 0.025 χ^2 /NDF: 10121082.5/68

In: 203.061 $\pm$ 0.025 χ^2 /NDF: 5643357.7/55

Out: 199.017 $\pm$ 0.024 χ^2 /NDF: 6007668.0/60

All: 200.958 $\pm$ 0.018 χ^2 /NDF: 11664236.9/11

yield_bpm0i05WS_mean vs Slug, Sign Corrected



Left: 153562.262 $\pm$ 0.036 χ^2 /NDF: 1468093411.3/4

Right: 141234.709 $\pm$ 0.035 χ^2 /NDF: 7256826595.1/4

In: 147490.133 $\pm$ 0.036 χ^2 /NDF: 32600719717.4/5

Out: 146969.719 $\pm$ 0.034 χ^2 /NDF: 37445070139.7

All: 147217.159 $\pm$ 0.025 χ^2 /NDF: 701550984

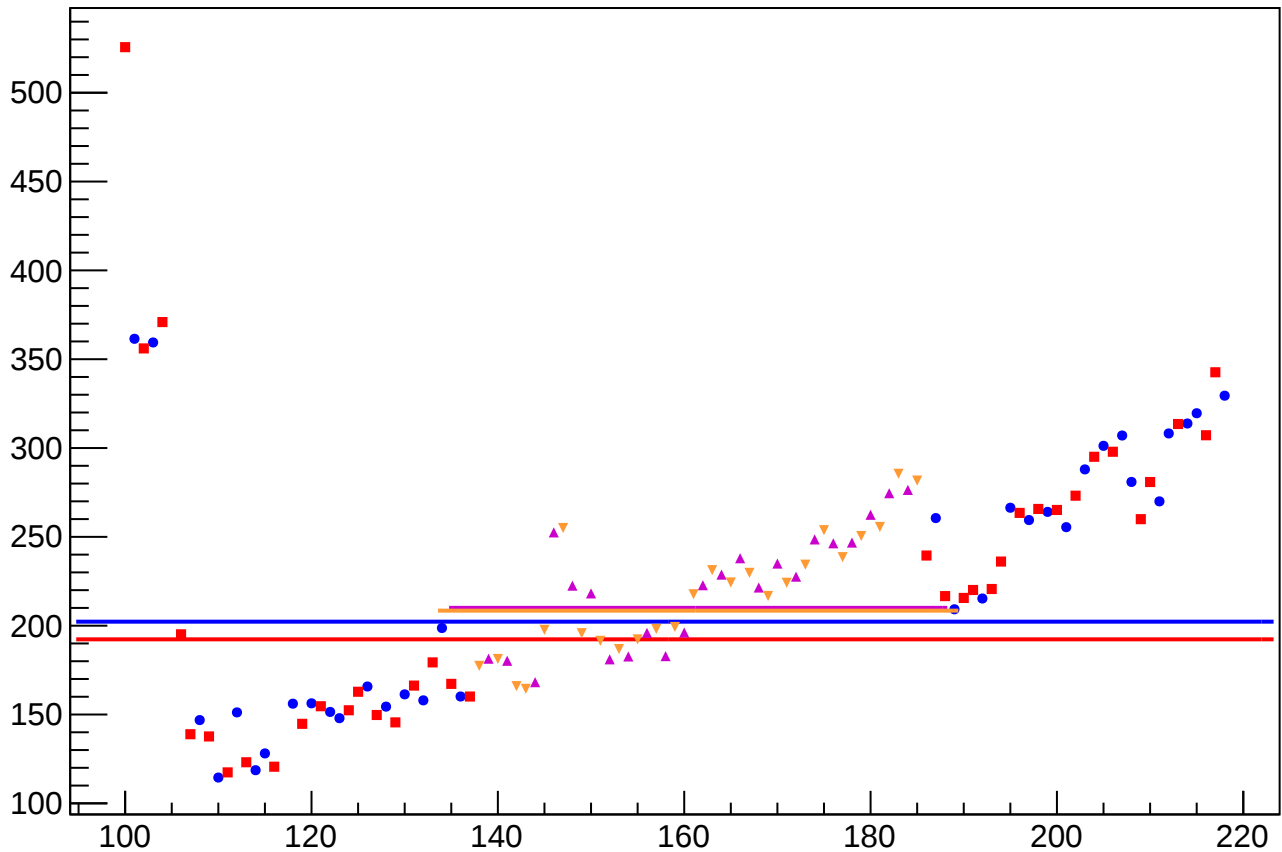
Right In: 141439.052 $\pm$ 0.051 χ^2 /NDF: 2761552469.1/32

Left Out: 153376.698 $\pm$ 0.050 χ^2 /NDF: 803848095.1/24

Right Out: 141053.374 $\pm$ 0.048 χ^2 /NDF: 4464409113.2/35

Left In: 153762.419 $\pm$ 0.051 χ^2 /NDF: 635075685.0/22

yield_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 202.266+/-0.036 χ^2/NDF : 3635296.5/32

Left Out: 208.466+/-0.035 χ^2/NDF : 720894.7/24

Right Out: 192.322+/-0.034 χ^2/NDF : 3879174.4/35

Left In: 210.038+/-0.036 χ^2/NDF : 702369.5/22

Left: 209.222+/-0.025 χ^2/NDF : 1424233.1/47

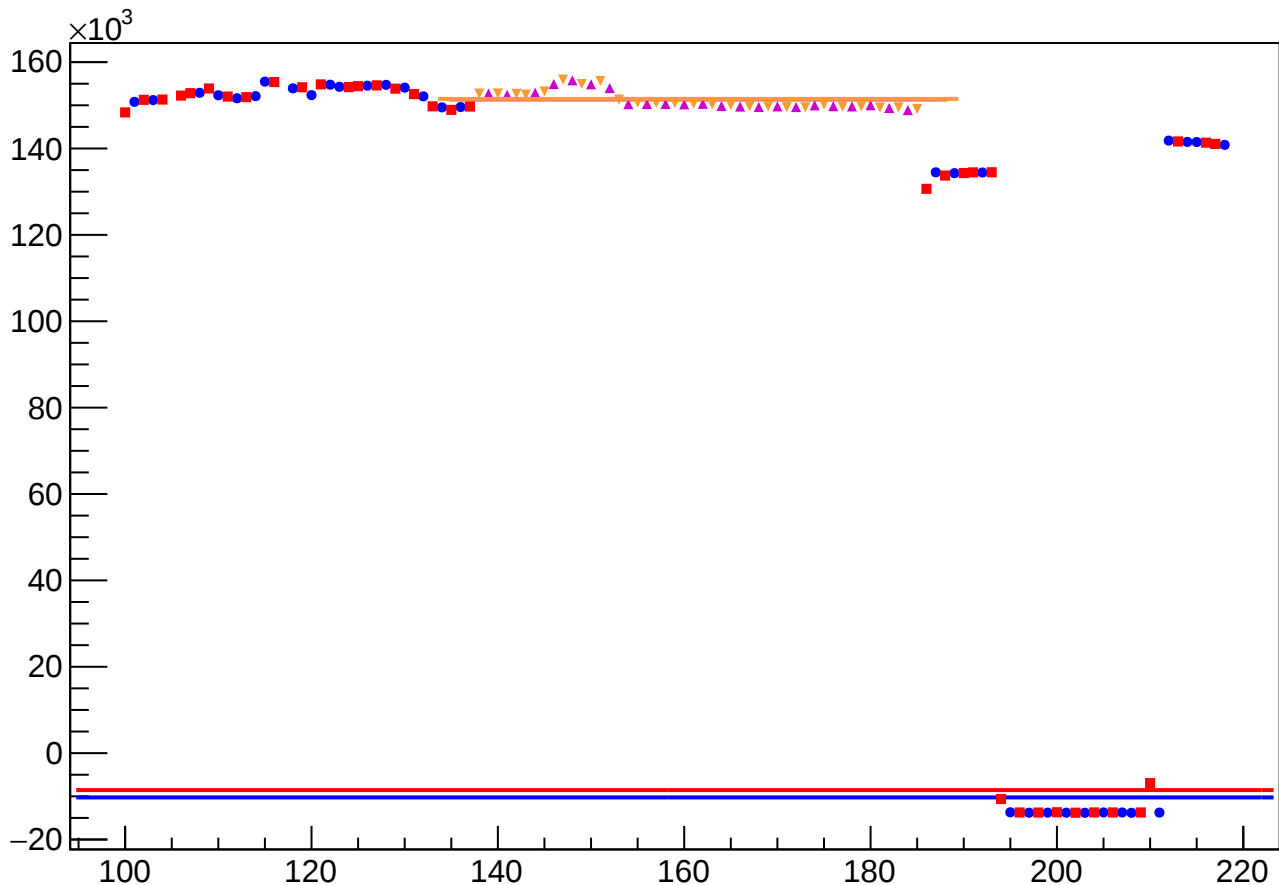
Right: 196.997+/-0.025 χ^2/NDF : 7555508.5/68

In: 206.082+/-0.025 χ^2/NDF : 4360897.9/55

Out: 200.072+/-0.024 χ^2/NDF : 4710515.8/60

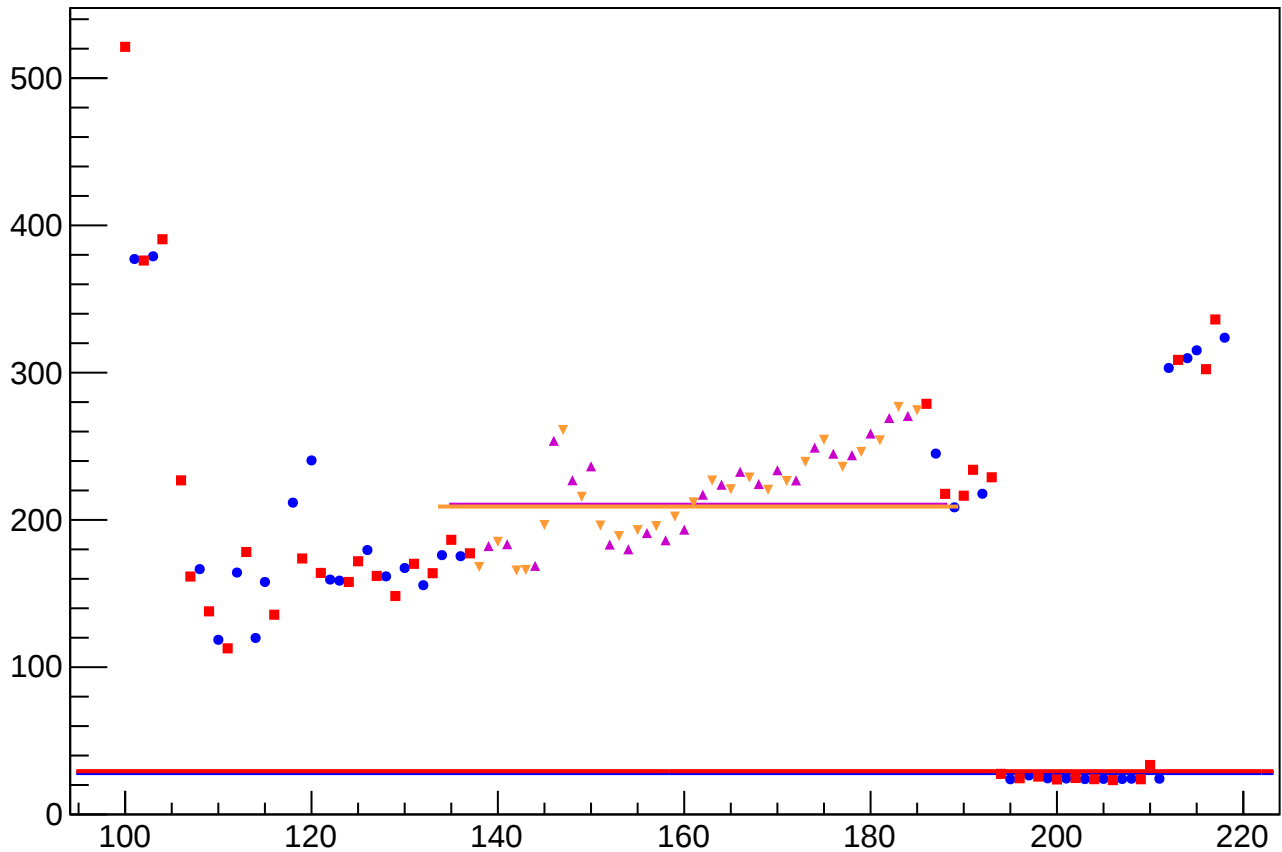
All: 202.930+/-0.018 χ^2/NDF : 9100566.9/116

yield_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -10253.992 $\pm$ 0.009	χ^2 /NDF: 6598032552485.0/32	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: -9477.651 $\pm$ 0.007	χ^2 /NDF: 1427283179362
Right Out: -8554.479 $\pm$ 0.010	χ^2 /NDF: 7659254285256.1/35	In: -5223.629 $\pm$ 0.009	χ^2 /NDF: 16177980211778.7
Left In: 151363.165 $\pm$ 0.051	χ^2 /NDF: 1421662089.0/22	Out: -2228.596 $\pm$ 0.010	χ^2 /NDF: 17691326961307
		All: -3849.015 $\pm$ 0.007	χ^2 /NDF: 3391937128

yield_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 28.087 ± 0.007 $\chi^2/\text{NDF}: 16518480.4/32$

Left Out: 209.076 ± 0.035 $\chi^2/\text{NDF}: 708260.3/24$

Right Out: 29.392 ± 0.007 $\chi^2/\text{NDF}: 17134771.9/35$

Left In: 210.345 ± 0.036 $\chi^2/\text{NDF}: 677747.7/22$

Left: 209.687 ± 0.025 $\chi^2/\text{NDF}: 1386640.1/47$

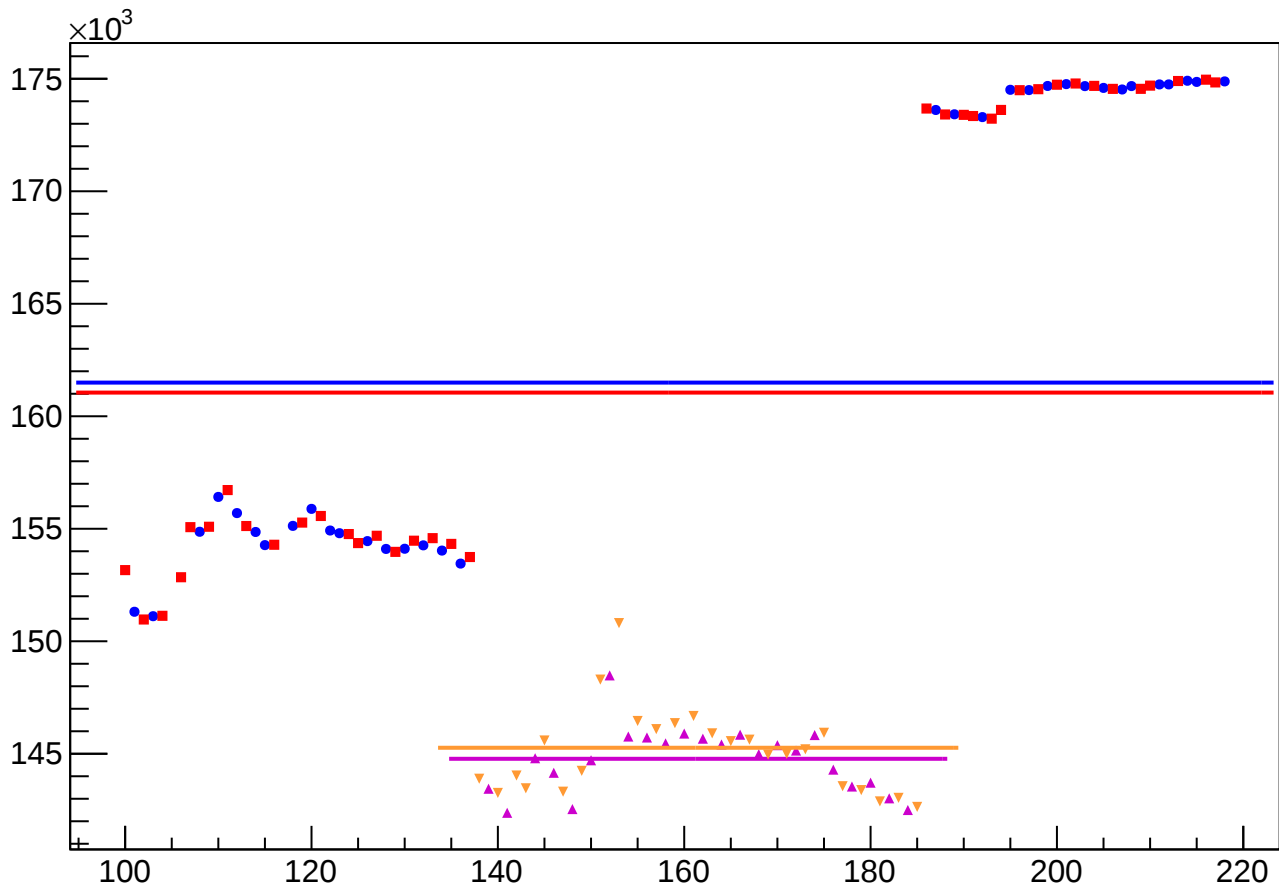
Right: 28.683 ± 0.005 $\chi^2/\text{NDF}: 33671585.7/68$

In: 33.759 ± 0.006 $\chi^2/\text{NDF}: 41559080.9/55$

Out: 36.494 ± 0.007 $\chi^2/\text{NDF}: 43132009.6/60$

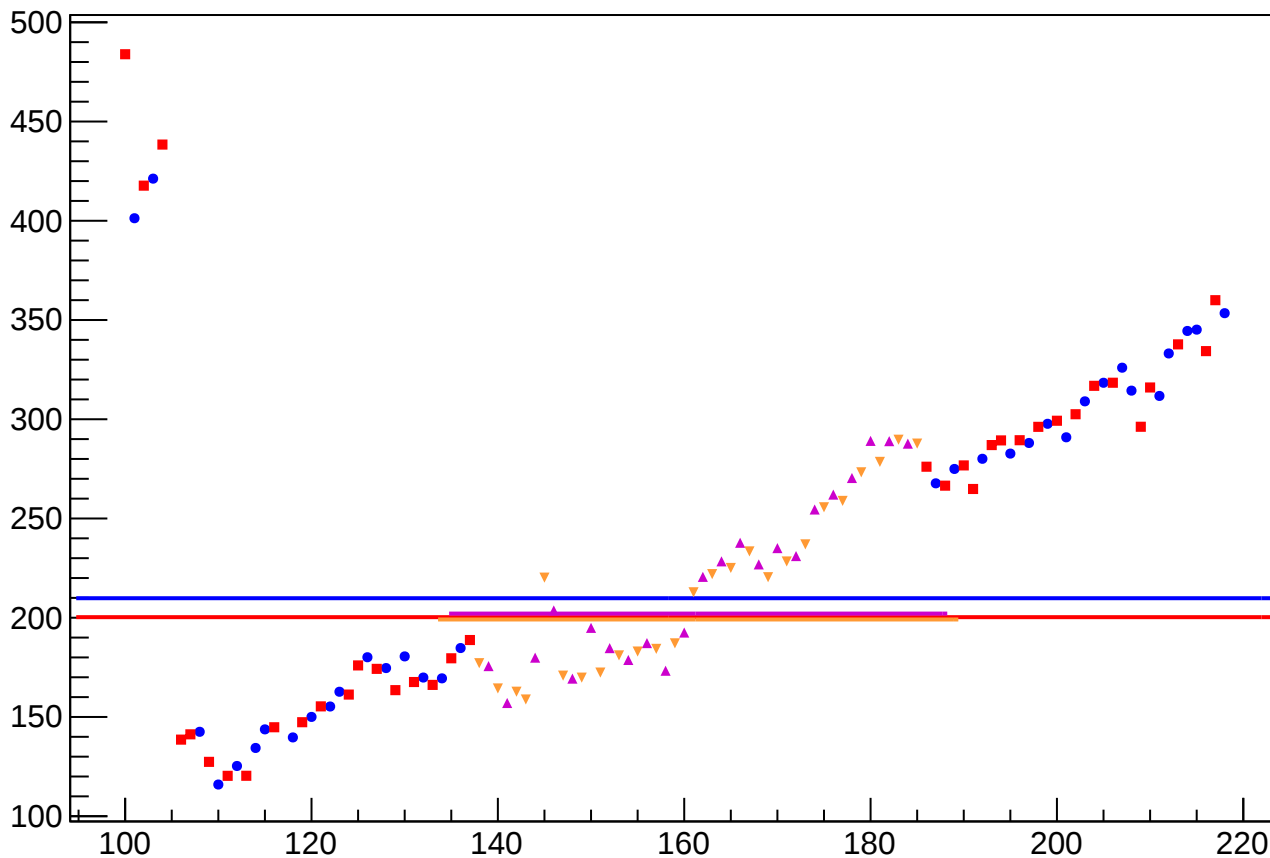
All: 35.015 ± 0.005 $\chi^2/\text{NDF}: 84774569.2/116$

yield_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: 161496.414 $\pm$ 0.053	χ^2 /NDF: 31108042127.1/32	Left: 145032.324 $\pm$ 0.034	χ^2 /NDF: 2687033506.0/4
Left Out: 145266.717 $\pm$ 0.047	χ^2 /NDF: 1717707352.7/24	Right: 161261.701 $\pm$ 0.036	χ^2 /NDF: 64118735449.9
Right Out: 161052.360 $\pm$ 0.050	χ^2 /NDF: 32973797742.7/35	In: 152552.530 $\pm$ 0.036	χ^2 /NDF: 84964832163.9/5
Left In: 144776.016 $\pm$ 0.050	χ^2 /NDF: 918120275.4/22	Out: 152706.823 $\pm$ 0.034	χ^2 /NDF: 86979293406.6
		All: 152633.573 $\pm$ 0.025	χ^2 /NDF: 171953643

yield_bpm1i02WS_rms vs Slug, Sign Corrected



Right In: 209.830 $\pm$ 0.038 χ^2 /NDF: 4743928.0/32

Left Out: 199.118 $\pm$ 0.034 χ^2 /NDF: 1152231.0/24

Right Out: 200.283 $\pm$ 0.035 χ^2 /NDF: 5080796.6/35

Left In: 202.090 $\pm$ 0.035 χ^2 /NDF: 1057833.2/22

Left: 200.538 $\pm$ 0.024 χ^2 /NDF: 2213821.5/47

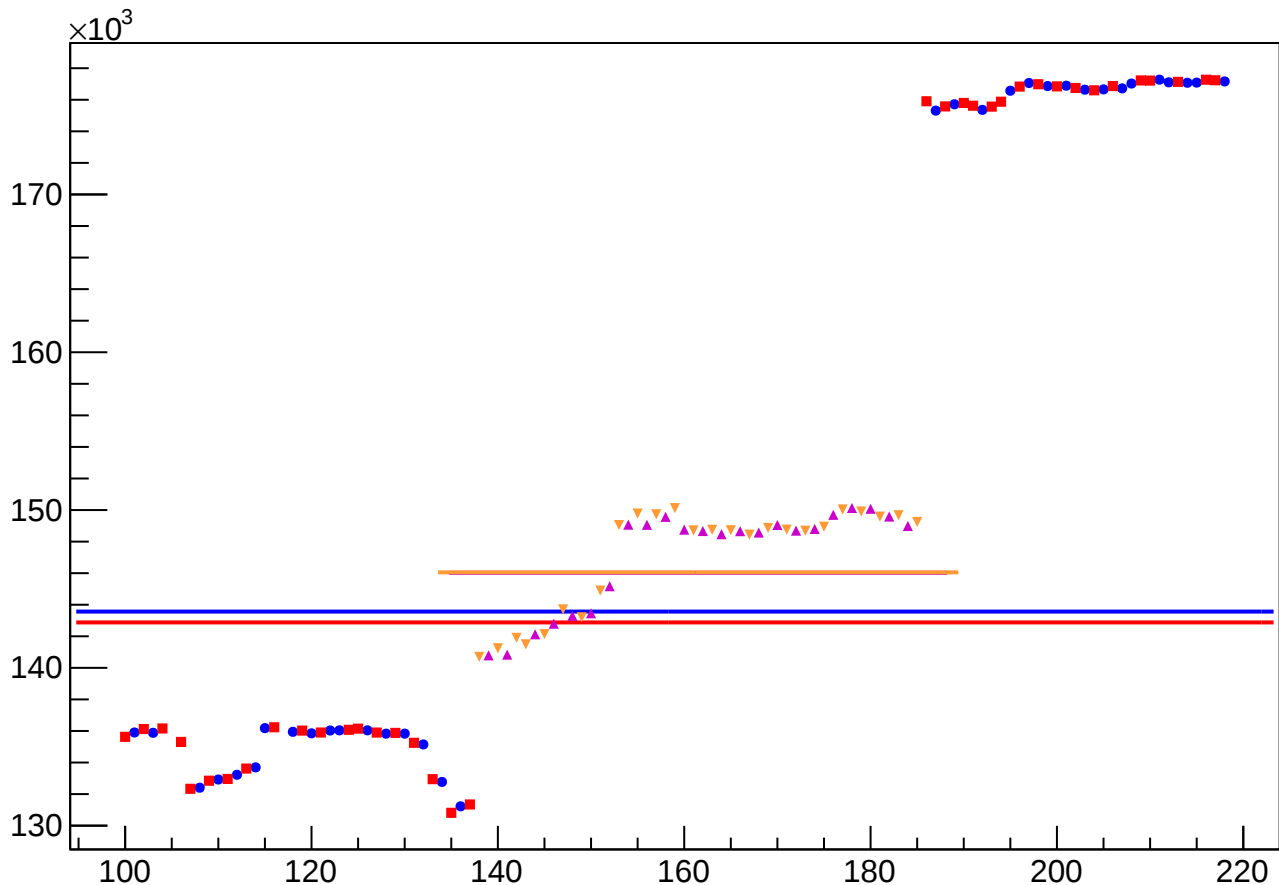
Right: 204.784 $\pm$ 0.026 χ^2 /NDF: 9858837.0/68

In: 205.690 $\pm$ 0.026 χ^2 /NDF: 5824448.7/55

Out: 199.667 $\pm$ 0.024 χ^2 /NDF: 6233596.8/60

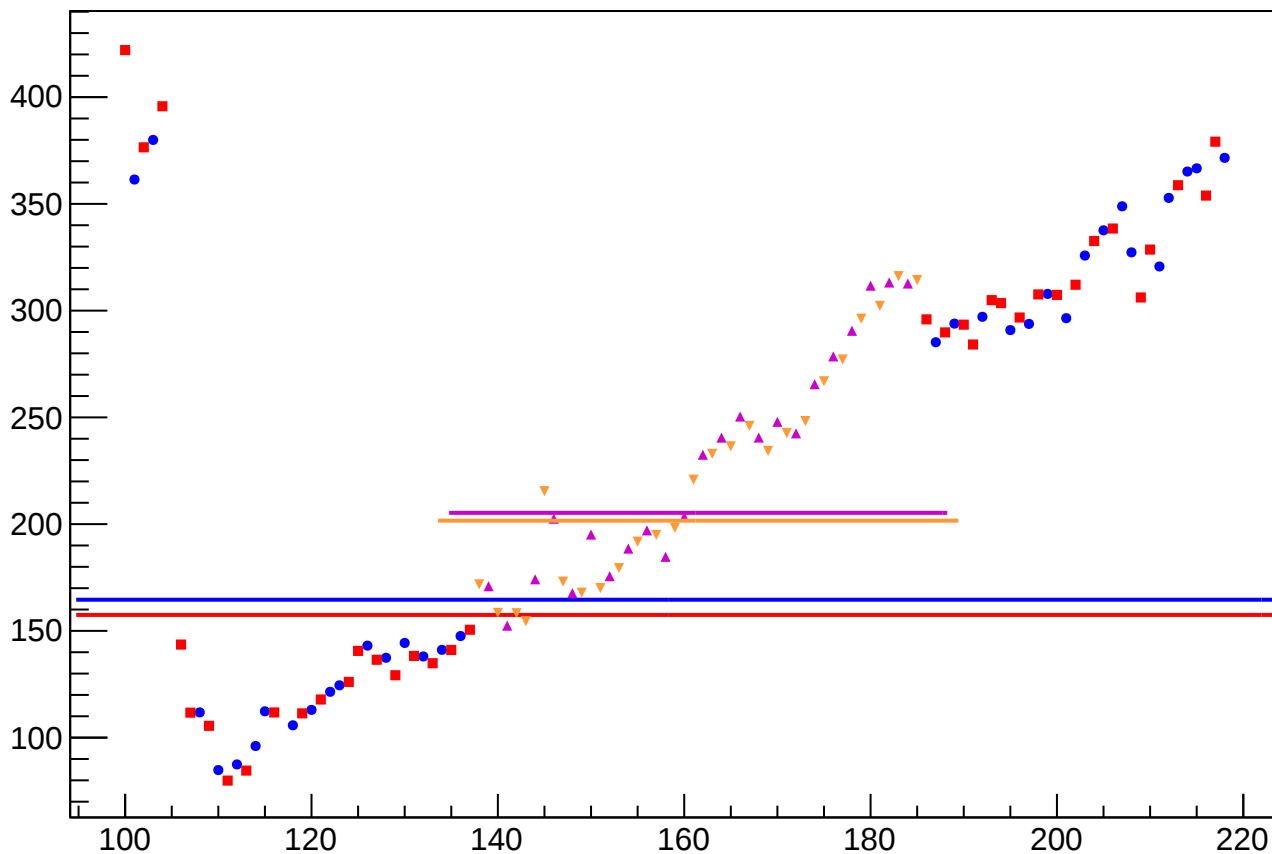
All: 202.526 $\pm$ 0.018 χ^2 /NDF: 12087051.9/119

yield_bpm1i04WS_mean vs Slug, Sign Corrected



Right In: 143566.107 $\pm$ 0.045	χ^2 /NDF: 155855096136.0/32	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: 143203.777 $\pm$ 0.031	χ^2 /NDF: 321604593476
Right Out: 142877.836 $\pm$ 0.042	χ^2 /NDF: 165623828629.3/35	In: 144636.324 $\pm$ 0.033	χ^2 /NDF: 161769925803.2
Left In: 146020.015 $\pm$ 0.051	χ^2 /NDF: 4591425371.4/22	Out: 144253.565 $\pm$ 0.032	χ^2 /NDF: 173473110166
		All: 144435.278 $\pm$ 0.023	χ^2 /NDF: 335311806

yield_bpm1i04WS_rms vs Slug, Sign Corrected



Right In: 164.602 $\pm$ 0.031 χ^2 /NDF: 8556934.5/32

Left Out: 201.632 $\pm$ 0.034 χ^2 /NDF:1589564.0/24

Right Out: 157.466 $\pm$ 0.030 χ^2 /NDF: 8956932.7/35

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

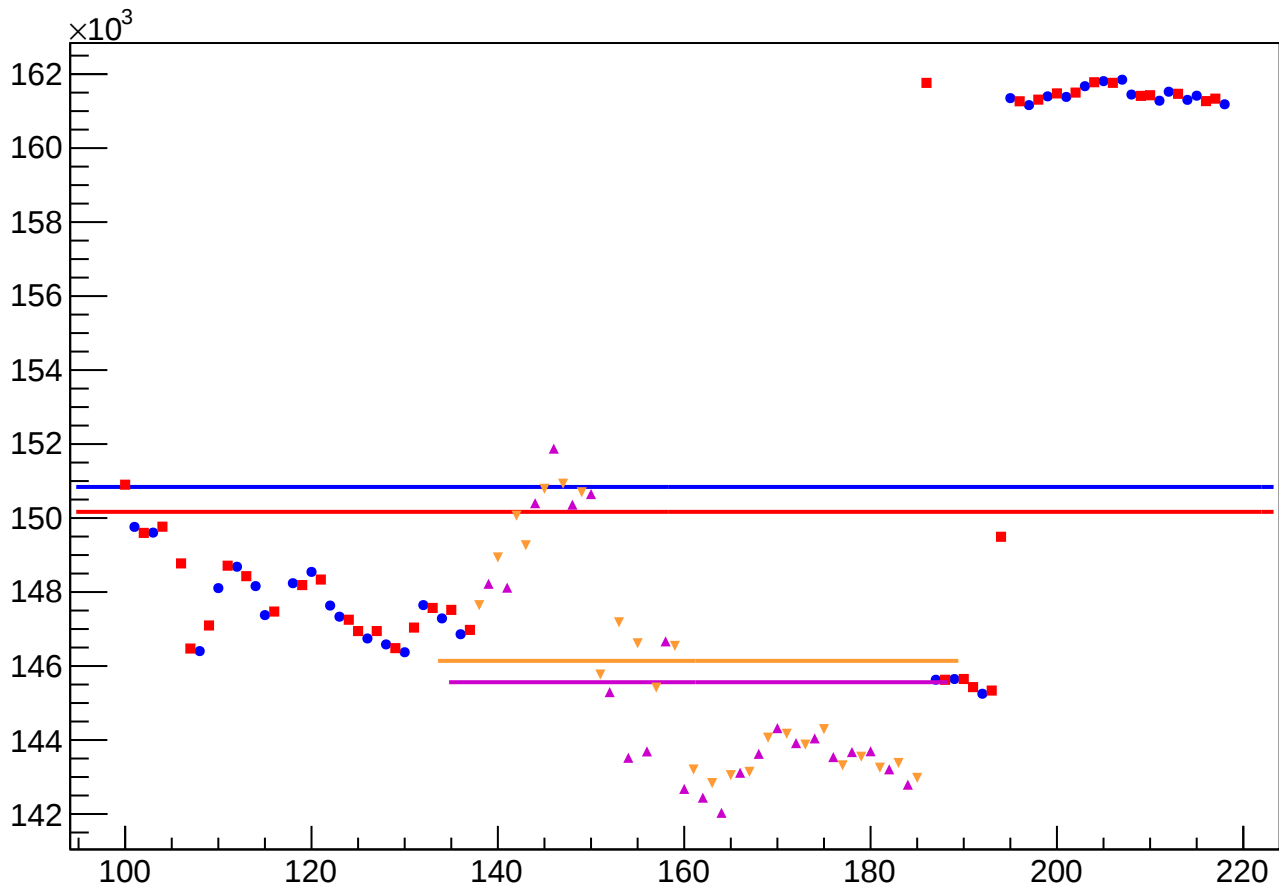
Right: 160.845 $\pm$ 0.022 χ^2 /NDF: 17540879.5/68

In: 182.345 $\pm$ 0.024 χ^2 /NDF:10709779.2/55

Out: 176.610 $\pm$ 0.022 χ^2 /NDF:11493728.1/60

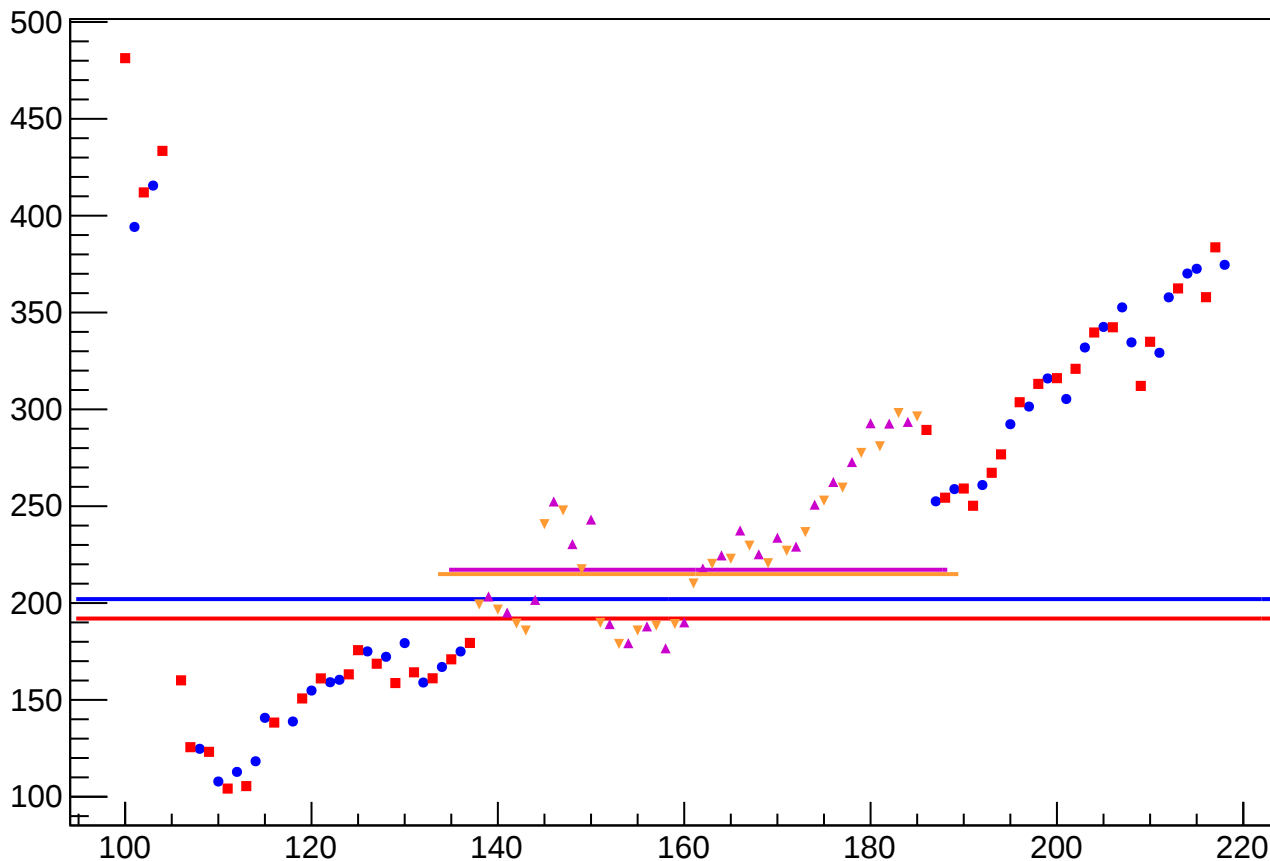
All: 179.333 $\pm$ 0.016 χ^2 /NDF: 22234390.8/11

yield_bpm1i06WS_mean vs Slug, Sign Corrected



Right In: 150840.952 $\pm$ 0.052	χ^2 /NDF: 13559800639.4/32	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: 150483.499 $\pm$ 0.036	χ^2 /NDF: 26309772497.5/4
Right Out: 150167.541 $\pm$ 0.049	χ^2 /NDF: 12661542567.2/35	In: 148246.512 $\pm$ 0.037	χ^2 /NDF: 21645459364.8/5
Left In: 145562.386 $\pm$ 0.053	χ^2 /NDF: 3054641996.0/22	Out: 148228.100 $\pm$ 0.035	χ^2 /NDF: 18608035460.1/4
		All: 148236.828 $\pm$ 0.026	χ^2 /NDF: 402536236.0/10

yield_bpm1i06WS_rms vs Slug, Sign Corrected



Right In: 202.034 $\pm$ 0.037 χ^2/NDF : 5880408.3/32

Left Out: 214.945 $\pm$ 0.036 χ^2/NDF : 728515.5/24

Right Out: 192.007 $\pm$ 0.035 χ^2/NDF : 6176016.3/35

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

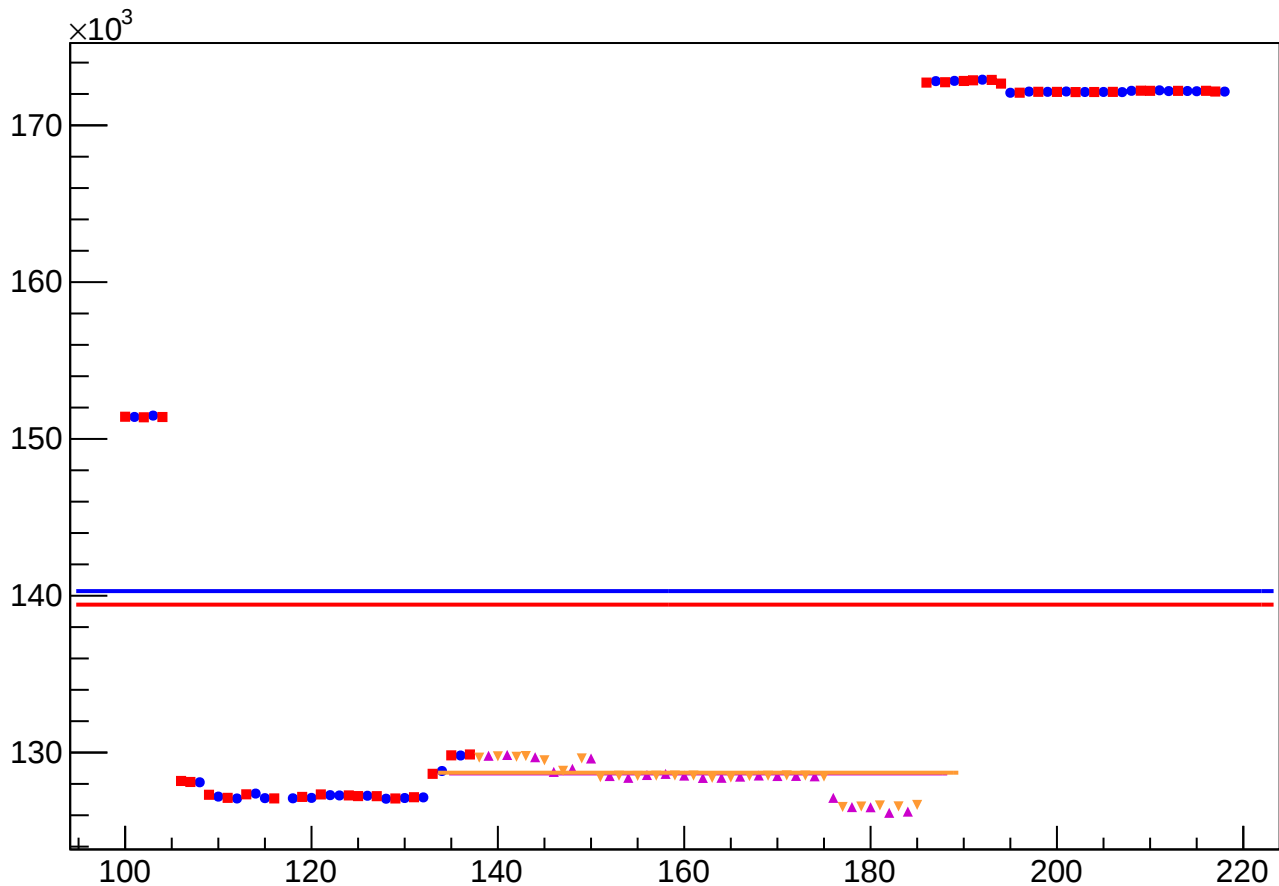
Right: 196.712 $\pm$ 0.025 χ^2/NDF : 12095635.5/68

In: 209.490 $\pm$ 0.026 χ^2/NDF : 6728302.1/55

Out: 203.051 $\pm$ 0.025 χ^2/NDF : 7115095.3/60

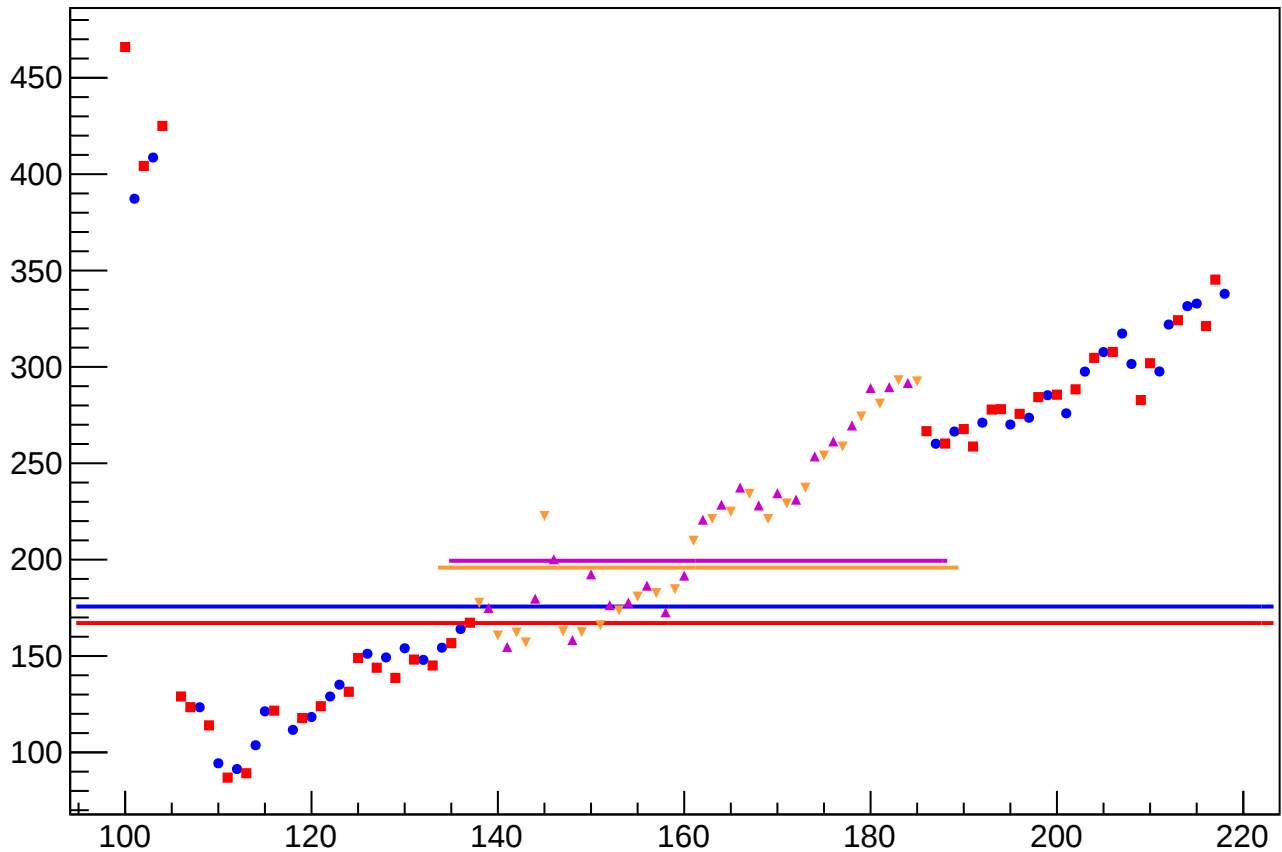
All: 206.103 $\pm$ 0.018 χ^2/NDF : 13874904.6/13

yield_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: 140295.818+/-0.046	χ^2/NDF : 189339301874.5/32	Left: 128691.898+/-0.034	χ^2/NDF : 681729975.4/47
Left Out: 128714.507+/-0.047	χ^2/NDF : 348178101.1/24	Right: 139838.186+/-0.032	χ^2/NDF : 394572204592
Right Out: 139432.559+/-0.043	χ^2/NDF : 205046846445.1/35	In: 134837.395+/-0.034	χ^2/NDF : 219566659703.2
Left In: 128667.013+/-0.049	χ^2/NDF : 333059477.6/22	Out: 134467.533+/-0.032	χ^2/NDF : 233670788952
		All: 134642.385+/-0.023	χ^2/NDF : 453301467

yield_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 175.661 $\pm$ 0.033 χ^2 /NDF: 6793331.2/32

Left Out: 195.883 $\pm$ 0.033 χ^2 /NDF:1313361.5/24

Right Out: 167.099 $\pm$ 0.031 χ^2 /NDF: 7187711.0/35

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

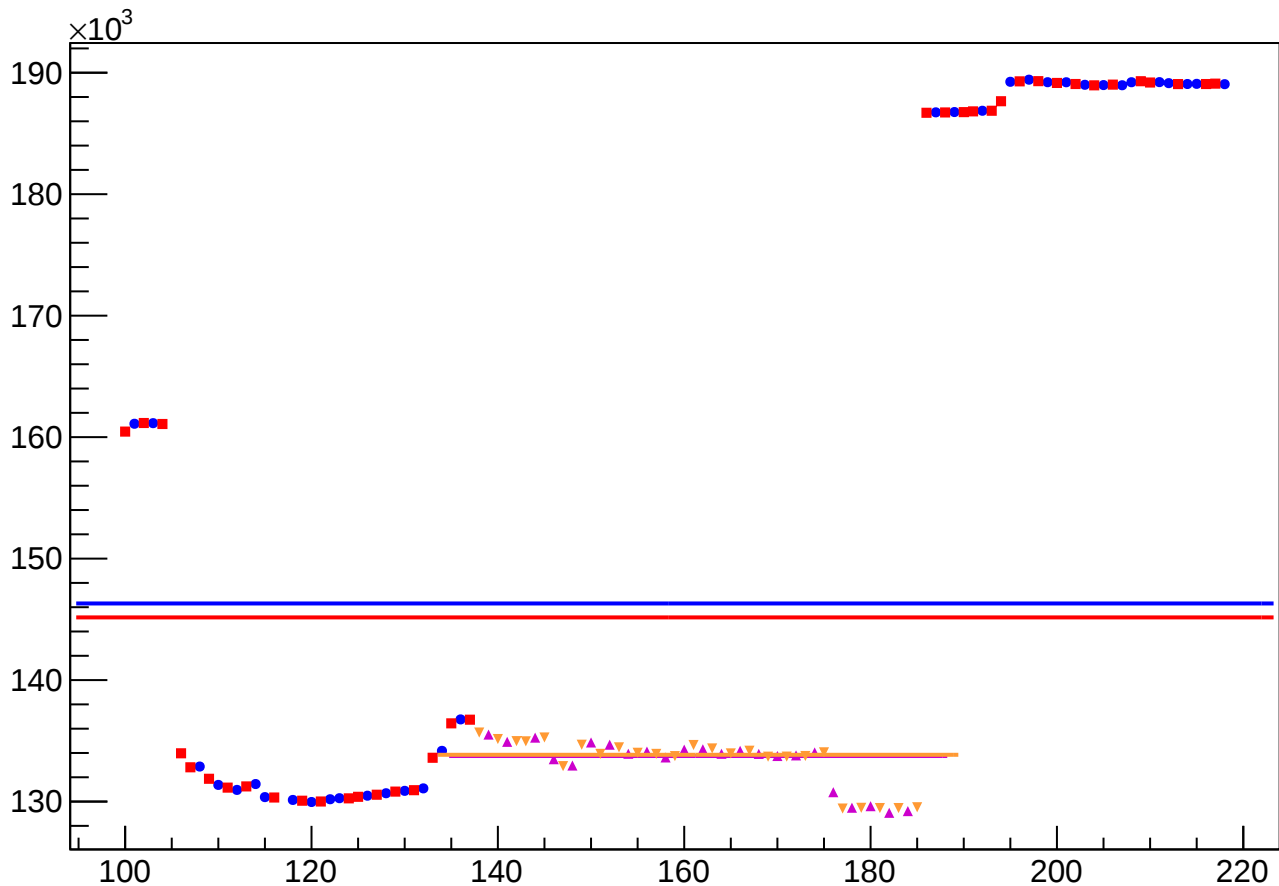
Right: 171.122 $\pm$ 0.022 χ^2 /NDF: 14017650.3/68

In: 186.810 $\pm$ 0.024 χ^2 /NDF:8208461.7/55

Out: 180.433 $\pm$ 0.022 χ^2 /NDF:8908927.0/60

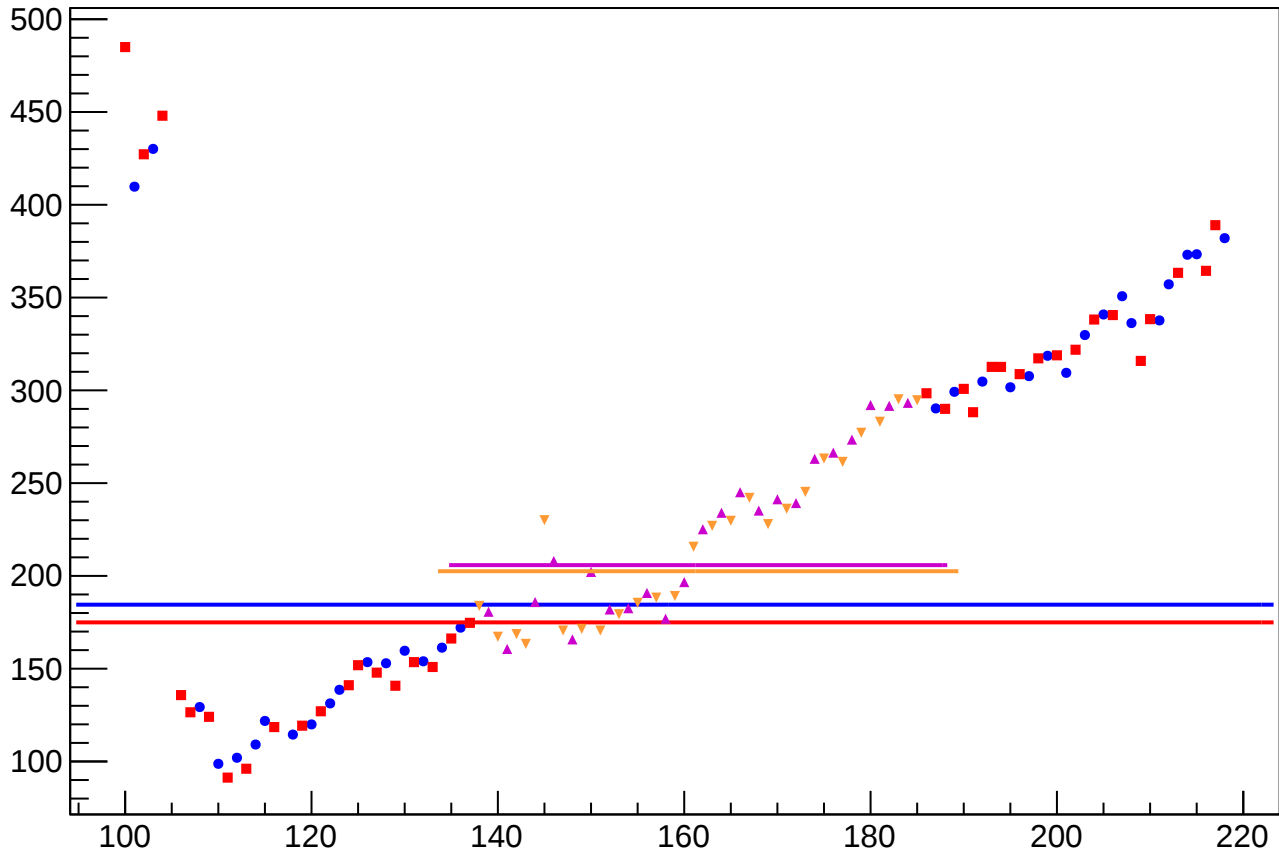
All: 183.448 $\pm$ 0.016 χ^2 /NDF: 17155457.2/11

yield_bpm2i02WS_mean vs Slug, Sign Corrected



Right In: 146307.769+/-0.049	χ^2/NDF : 258292341575.5/32	Left: 133802.452+/-0.035	χ^2/NDF : 2036267179.3/4
Left Out: 133850.586+/-0.048	χ^2/NDF : 1080107831.1/24	Right: 145698.025+/-0.034	χ^2/NDF : 532561991602
Right Out: 145160.213+/-0.046	χ^2/NDF : 273978214245.6/35	In: 140219.846+/-0.035	χ^2/NDF : 291089538156.8
Left In: 133749.630+/-0.051	χ^2/NDF : 954069486.7/22	Out: 139769.586+/-0.033	χ^2/NDF : 303847329859.
		All: 139982.362+/-0.024	χ^2/NDF : 595023310

yield_bpm2i02WS_rms vs Slug, Sign Corrected



Right In: 184.499+/-0.035 χ^2/NDF : 7505222.5/32

Left Out: 202.527+/-0.034 χ^2/NDF :1211991.5/24

Right Out: 174.956+/-0.033 χ^2/NDF : 7952768.8/35

Left In: 205.808+/-0.036 χ^2/NDF :1094330.7/22

Left: 204.091+/-0.025 χ^2/NDF : 2310735.8/47

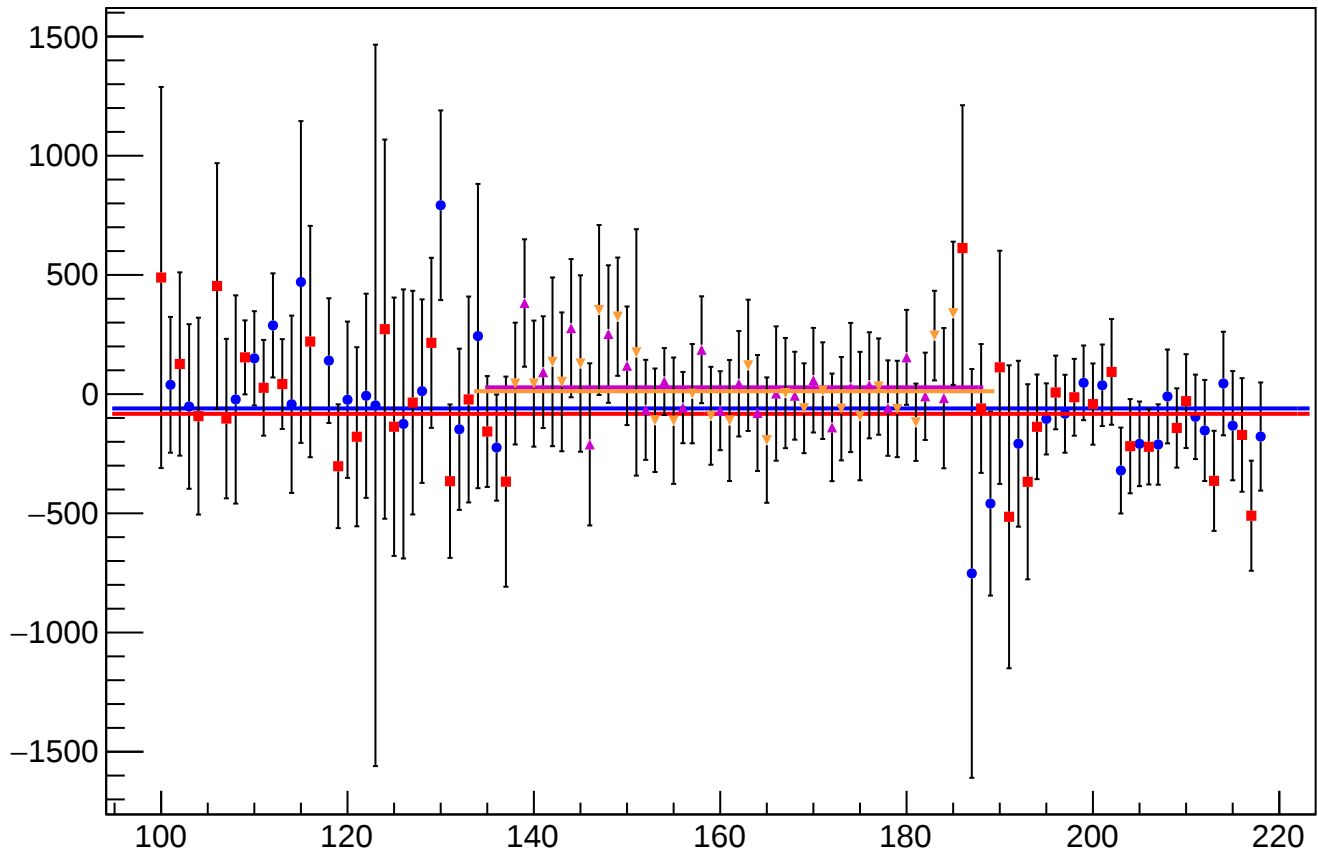
Right: 179.428+/-0.024 χ^2/NDF : 15498299.6/68

In: 194.829+/-0.025 χ^2/NDF :8782924.6/55

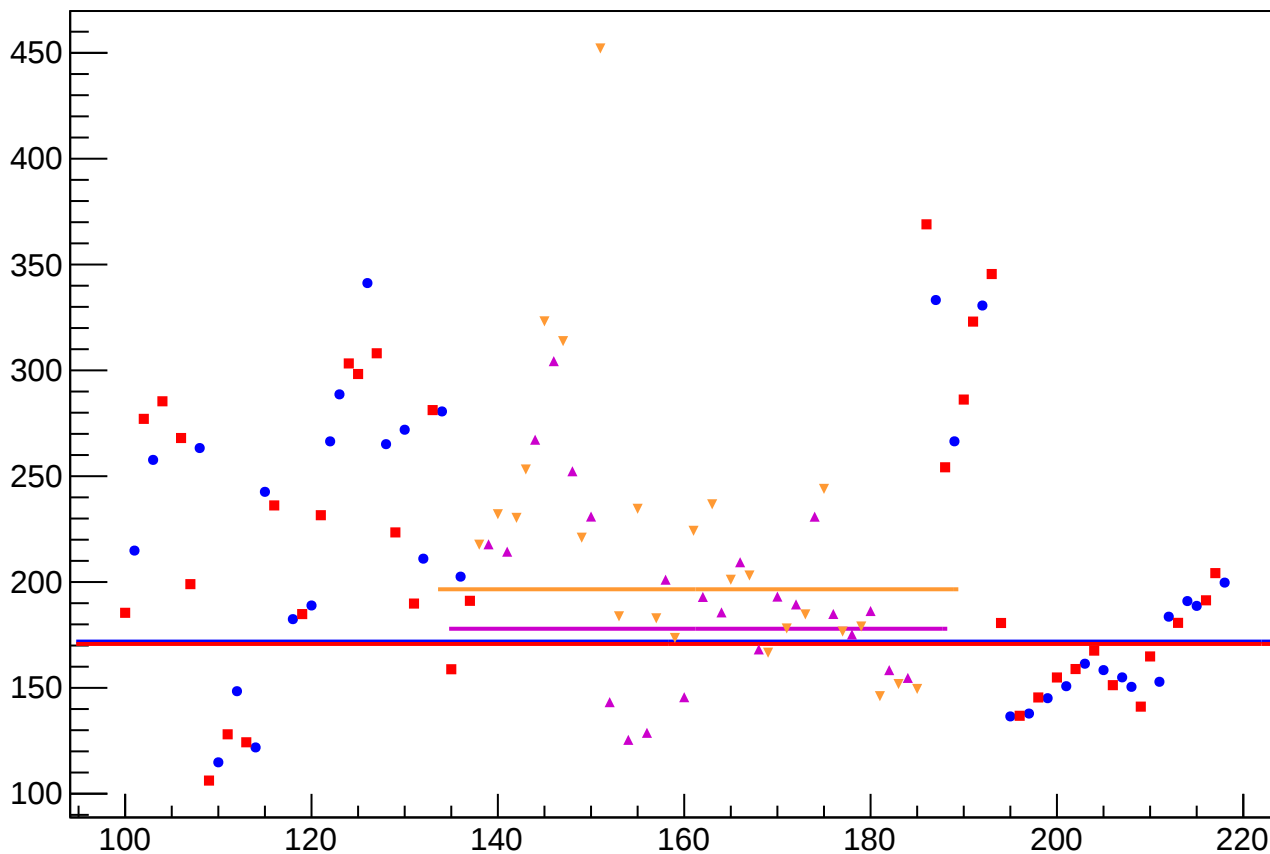
Out: 188.097+/-0.024 χ^2/NDF :9506964.4/60

All: 191.279+/-0.017 χ^2/NDF : 18328530.4/11

asym_bcm_an_ds_mean vs Slug, Sign Corrected



asym_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 171.867 ± 0.030 χ^2/NDF : 2212579.4/32

Left Out: 196.576 ± 0.034 χ^2/NDF : 1778719.0/24

Right Out: 170.755 ± 0.029 χ^2/NDF : 2906470.9/35

Left In: 177.933 ± 0.032 χ^2/NDF : 1605780.8/22

Left: 186.680 ± 0.023 χ^2/NDF : 3547823.4/47

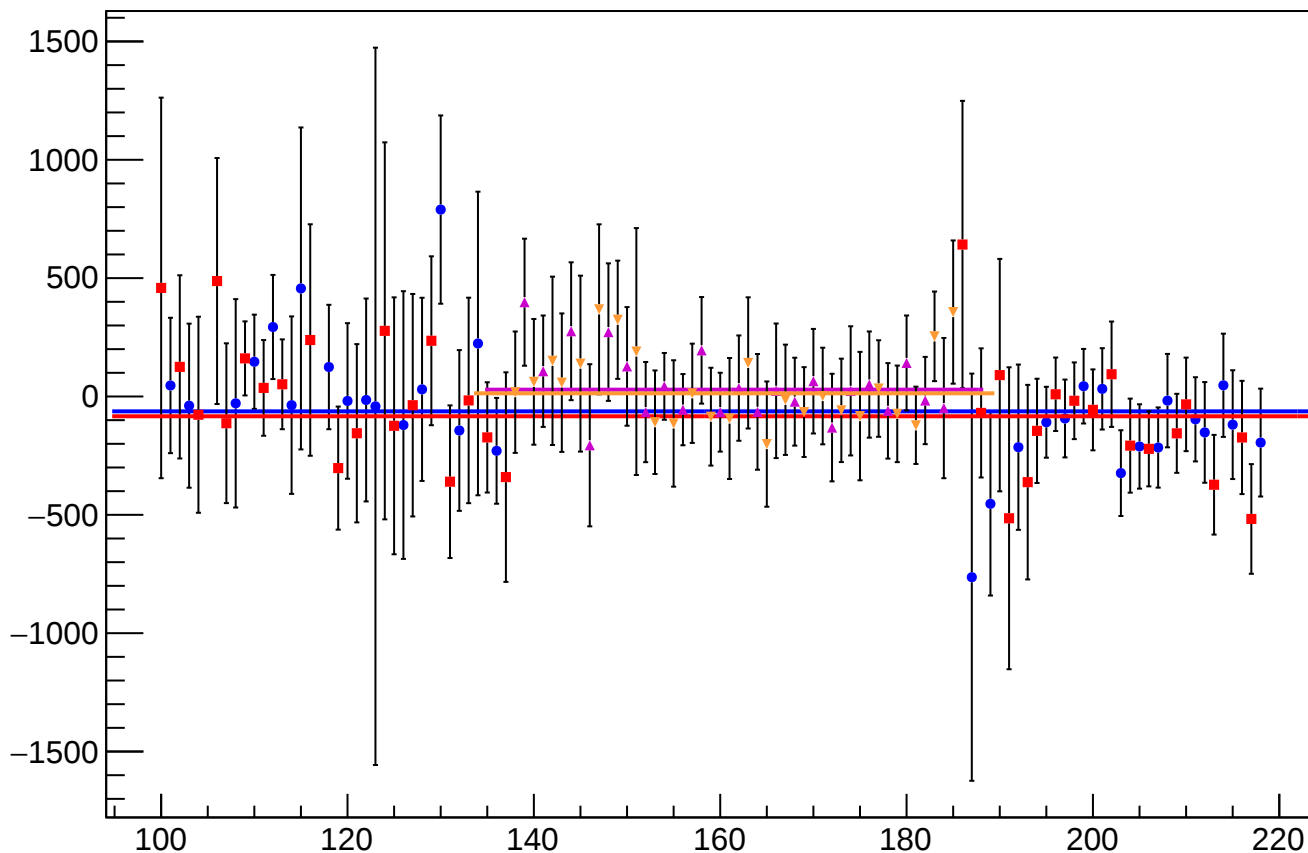
Right: 171.308 ± 0.021 χ^2/NDF : 5119759.1/68

In: 174.703 ± 0.022 χ^2/NDF : 3837981.2/55

Out: 181.981 ± 0.022 χ^2/NDF : 5018826.9/60

All: 178.250 ± 0.015 χ^2/NDF : 8912100.7/116

asym_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: -62.813 ± 42.062 $\chi^2/\text{NDF}: 17.7/32$

Left Out: 13.395 ± 47.862 $\chi^2/\text{NDF}: 9.0/24$

Right Out: -83.644 ± 41.885 $\chi^2/\text{NDF}: 19.4/35$

Left In: 28.806 ± 44.980 $\chi^2/\text{NDF}: 6.8/22$

Left: 21.578 ± 32.777 $\chi^2/\text{NDF}: 15.9/47$

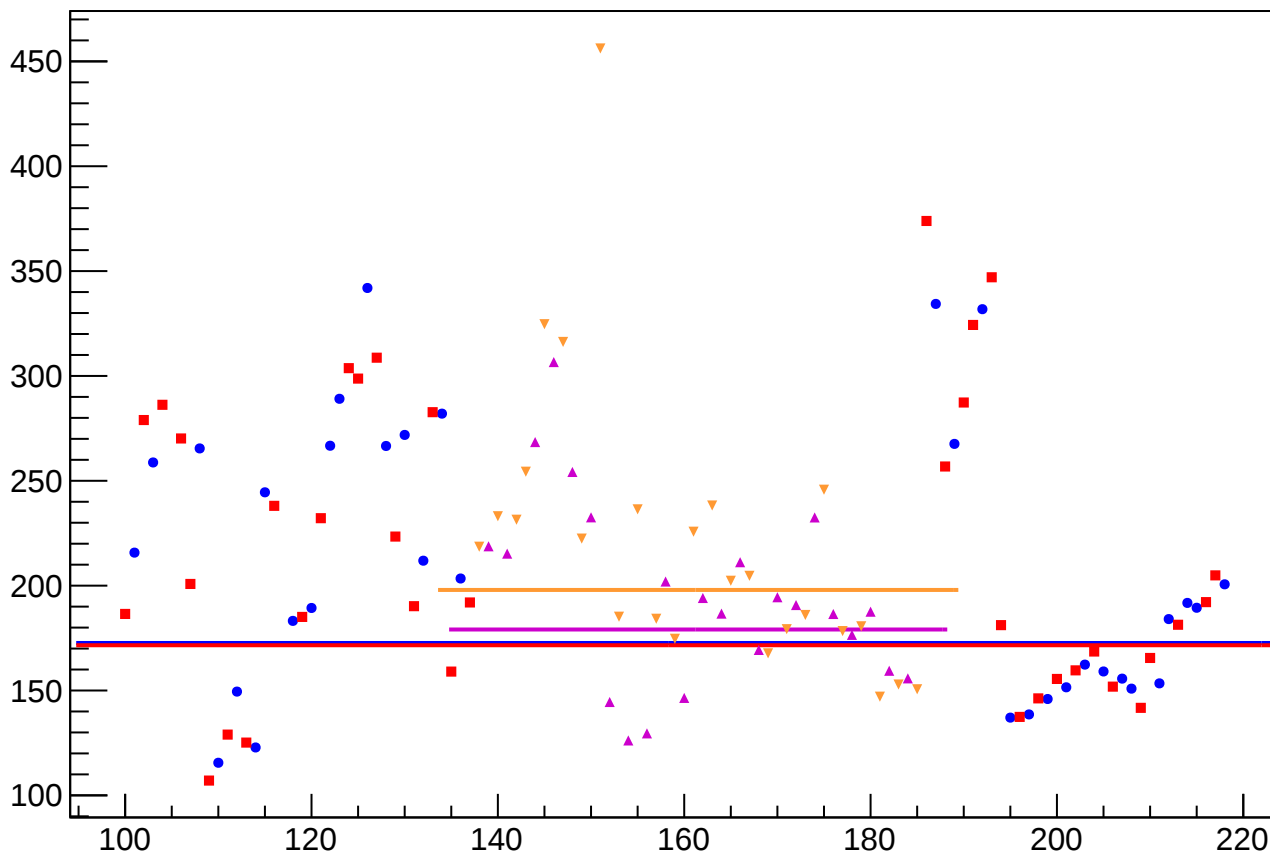
Right: -73.273 ± 29.680 $\chi^2/\text{NDF}: 37.2/68$

In: -20.071 ± 30.722 $\chi^2/\text{NDF}: 26.8/55$

Out: -41.560 ± 31.520 $\chi^2/\text{NDF}: 30.7/60$

All: -30.540 ± 22.000 $\chi^2/\text{NDF}: 57.7/116$

asym_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 172.662 $\pm$ 0.030 χ^2 /NDF: 2203857.8/32

Left Out: 197.953 $\pm$ 0.034 χ^2 /NDF:1774524.3/24

Right Out: 171.583 $\pm$ 0.030 χ^2 /NDF: 2901434.3/35

Left In: 179.090 $\pm$ 0.032 χ^2 /NDF:1605113.3/22

Left: 187.936 $\pm$ 0.023 χ^2 /NDF: 3544595.8/47

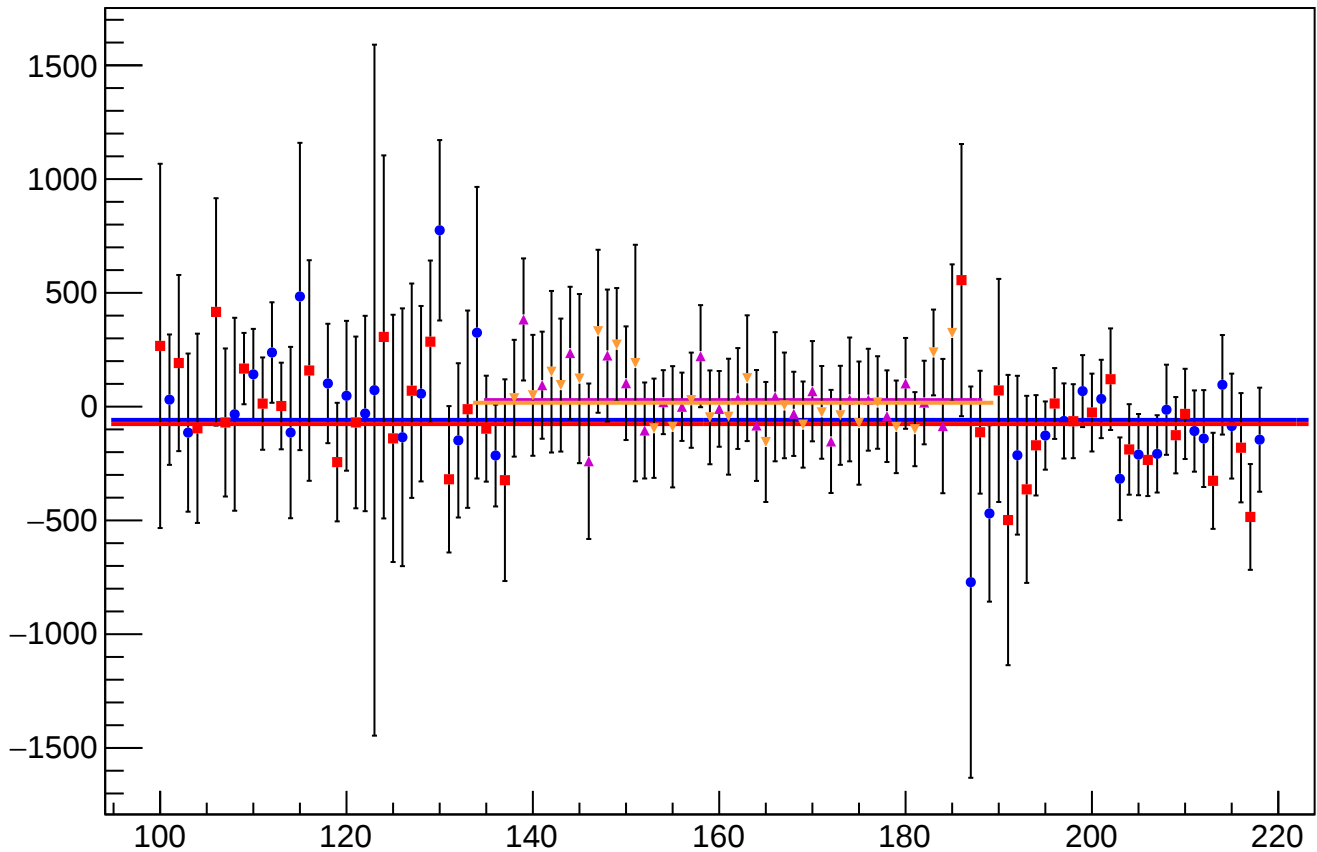
Right: 172.120 $\pm$ 0.021 χ^2 /NDF: 5105953.1/68

In: 175.661 $\pm$ 0.022 χ^2 /NDF:3830760.4/55

Out: 183.019 $\pm$ 0.022 χ^2 /NDF:5019770.2/60

All: 179.246 $\pm$ 0.016 χ^2 /NDF: 8906428.7/116

asym_bcm_an_us_mean vs Slug, Sign Corrected



Right In: -58.222 ± 42.149 $\chi^2/\text{NDF}: 17.1/32$

Left Out: 17.142 ± 47.738 $\chi^2/\text{NDF}: 7.1/24$

Right Out: -76.691 ± 41.922 $\chi^2/\text{NDF}: 17.0/35$

Left In: 28.655 ± 44.859 $\chi^2/\text{NDF}: 6.1/22$

Left: 23.256 ± 32.690 $\chi^2/\text{NDF}: 13.2/47$

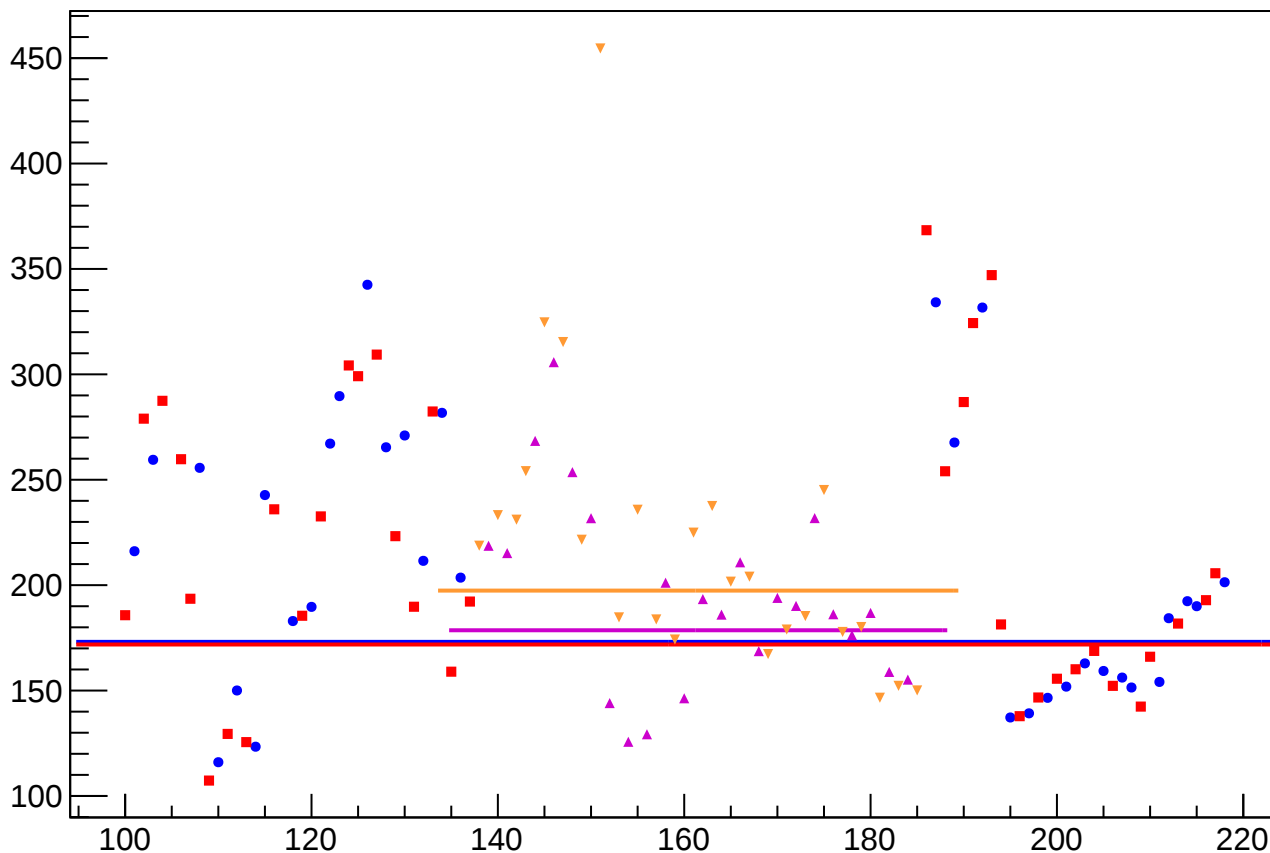
Right: -67.507 ± 29.723 $\chi^2/\text{NDF}: 34.2/68$

In: -17.487 ± 30.717 $\chi^2/\text{NDF}: 25.3/55$

Out: -35.835 ± 31.500 $\chi^2/\text{NDF}: 26.3/60$

All: -26.431 ± 21.992 $\chi^2/\text{NDF}: 51.7/116$

asym_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 173.098 ± 0.030 χ^2/NDF : 2171976.5/32

Left Out: 197.422 ± 0.034 χ^2/NDF : 1780261.9/24

Right Out: 171.851 ± 0.030 χ^2/NDF : 2855418.8/35

Left In: 178.601 ± 0.032 χ^2/NDF : 1608998.1/22

Left: 187.427 ± 0.023 χ^2/NDF : 3554344.1/47

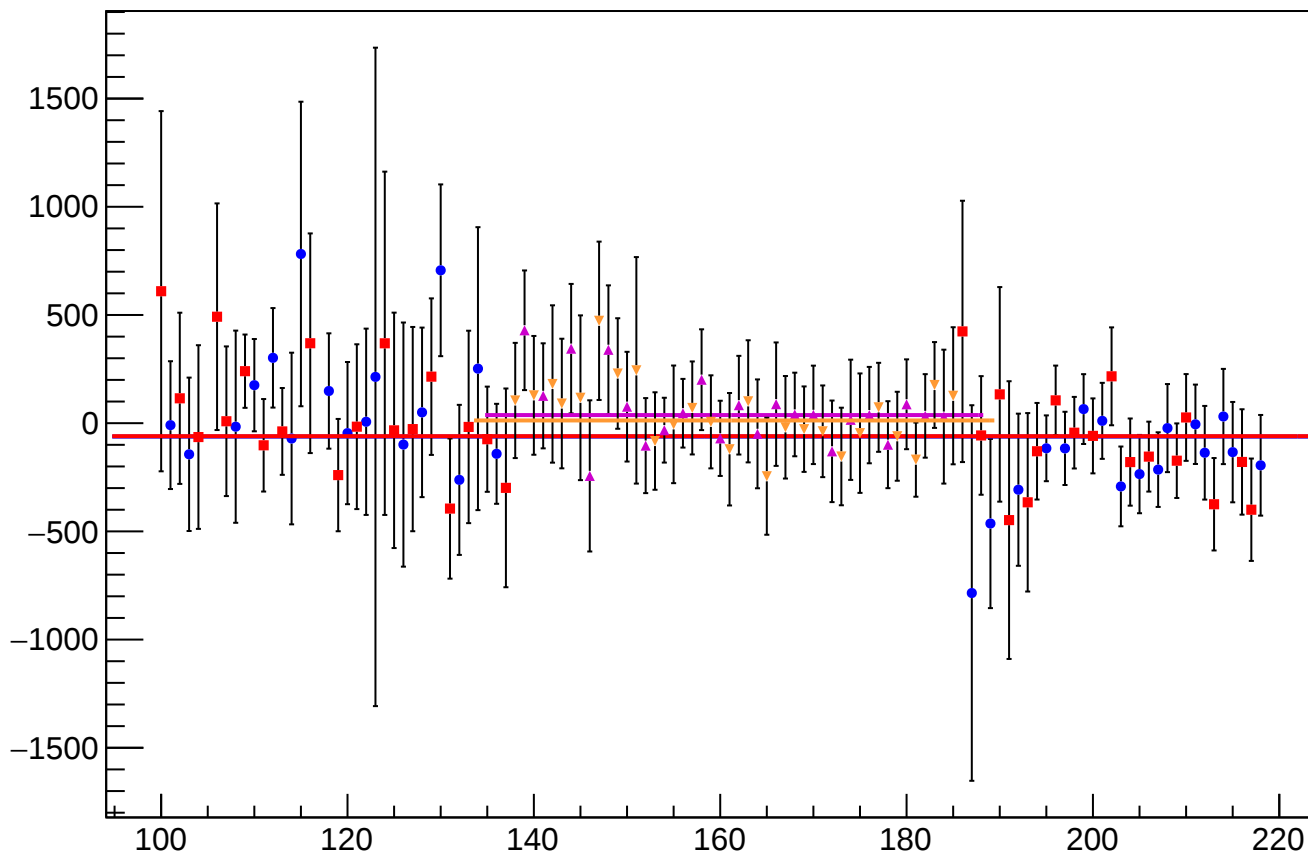
Right: 172.471 ± 0.021 χ^2/NDF : 5028275.3/68

In: 175.678 ± 0.022 χ^2/NDF : 3796964.2/55

Out: 182.985 ± 0.022 χ^2/NDF : 4959676.5/60

All: 179.239 ± 0.016 χ^2/NDF : 8811794.6/116

asym_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: -61.940 ± 43.036 $\chi^2/\text{NDF}: 17.9/32$

Left Out: 12.632 ± 49.242 $\chi^2/\text{NDF}: 7.5/24$

Right Out: -60.088 ± 43.000 $\chi^2/\text{NDF}: 18.8/35$

Left In: 37.460 ± 46.479 $\chi^2/\text{NDF}: 7.6/22$

Left: 25.762 ± 33.800 $\chi^2/\text{NDF}: 15.3/47$

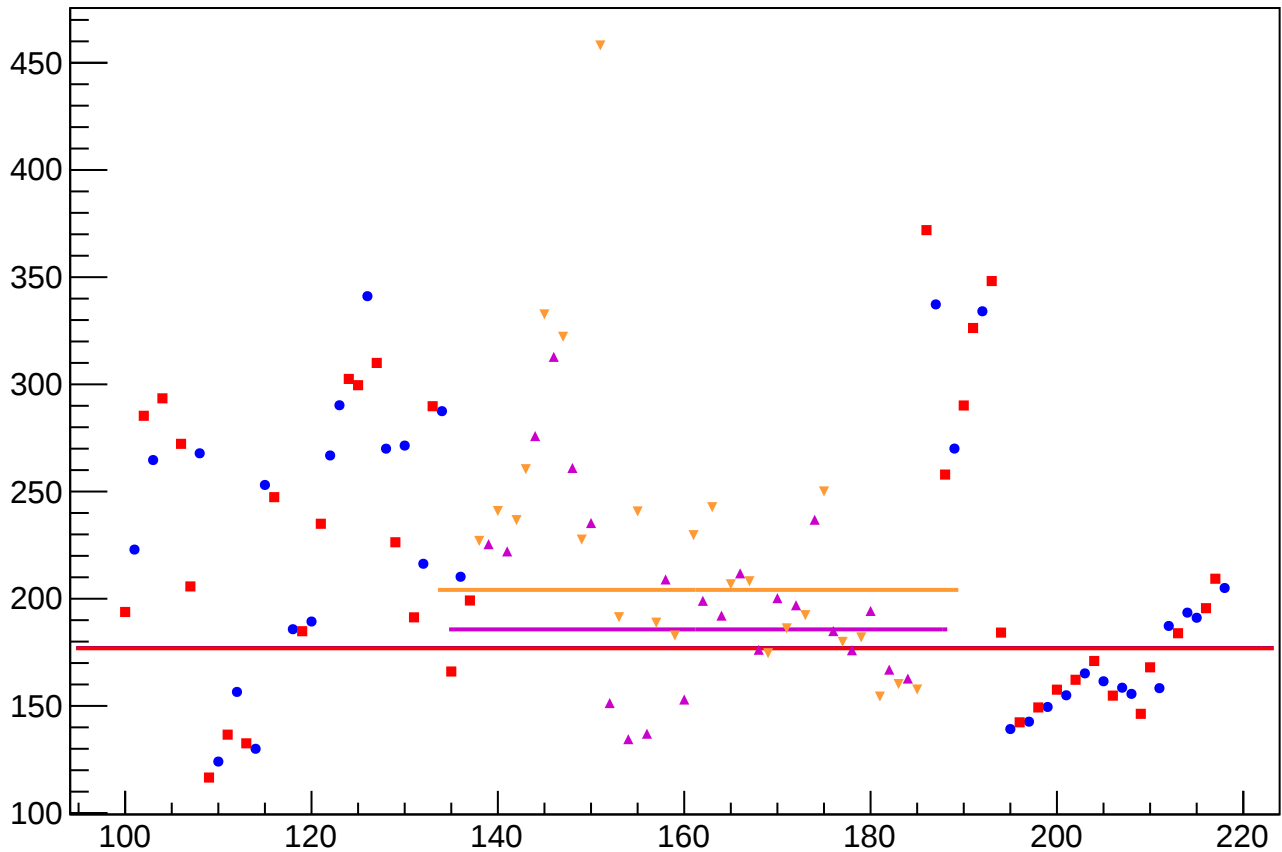
Right: -61.013 ± 30.418 $\chi^2/\text{NDF}: 36.6/68$

In: -16.057 ± 31.578 $\chi^2/\text{NDF}: 28.0/55$

Out: -28.627 ± 32.389 $\chi^2/\text{NDF}: 27.6/60$

All: -22.182 ± 22.610 $\chi^2/\text{NDF}: 55.6/116$

asym_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 177.006 $\pm$ 0.030 χ^2 /NDF: 2085536.1/32

Left Out: 204.132 $\pm$ 0.035 χ^2 /NDF:1672287.6/24

Right Out: 176.891 $\pm$ 0.030 χ^2 /NDF: 2664451.8/35

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

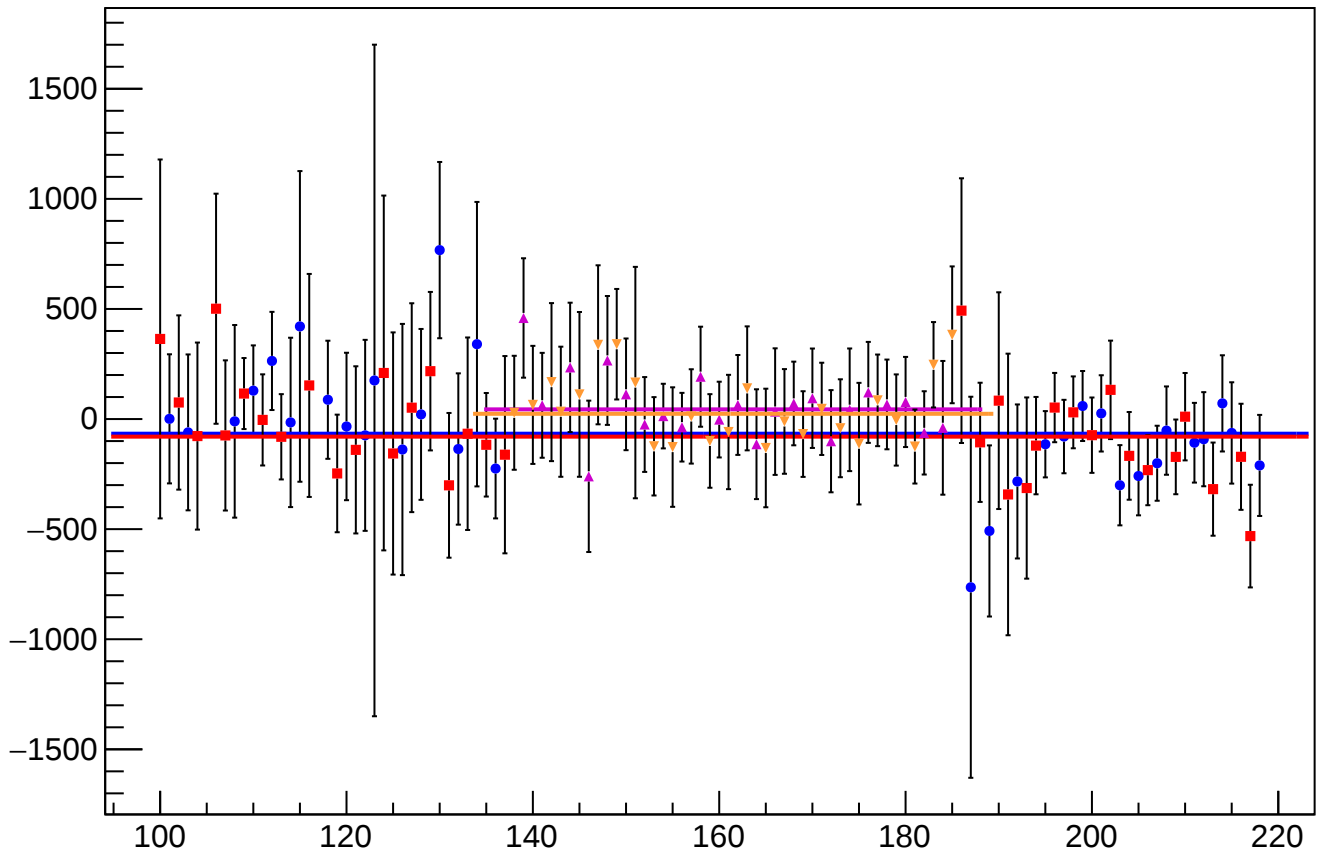
Right: 176.949 $\pm$ 0.022 χ^2 /NDF: 4749995.1/68

In: 181.016 $\pm$ 0.022 χ^2 /NDF:3570920.6/55

Out: 188.676 $\pm$ 0.023 χ^2 /NDF:4684009.7/60

All: 184.749 $\pm$ 0.016 χ^2 /NDF: 8312276.0/116

asym_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: -66.524 ± 42.508 $\chi^2/\text{NDF}: 17.0/32$

Left Out: 23.843 ± 48.783 $\chi^2/\text{NDF}: 8.5/24$

Right Out: -79.895 ± 42.346 $\chi^2/\text{NDF}: 15.7/35$

Left In: 43.978 ± 45.981 $\chi^2/\text{NDF}: 6.5/22$

Left: 34.506 ± 33.460 $\chi^2/\text{NDF}: 15.1/47$

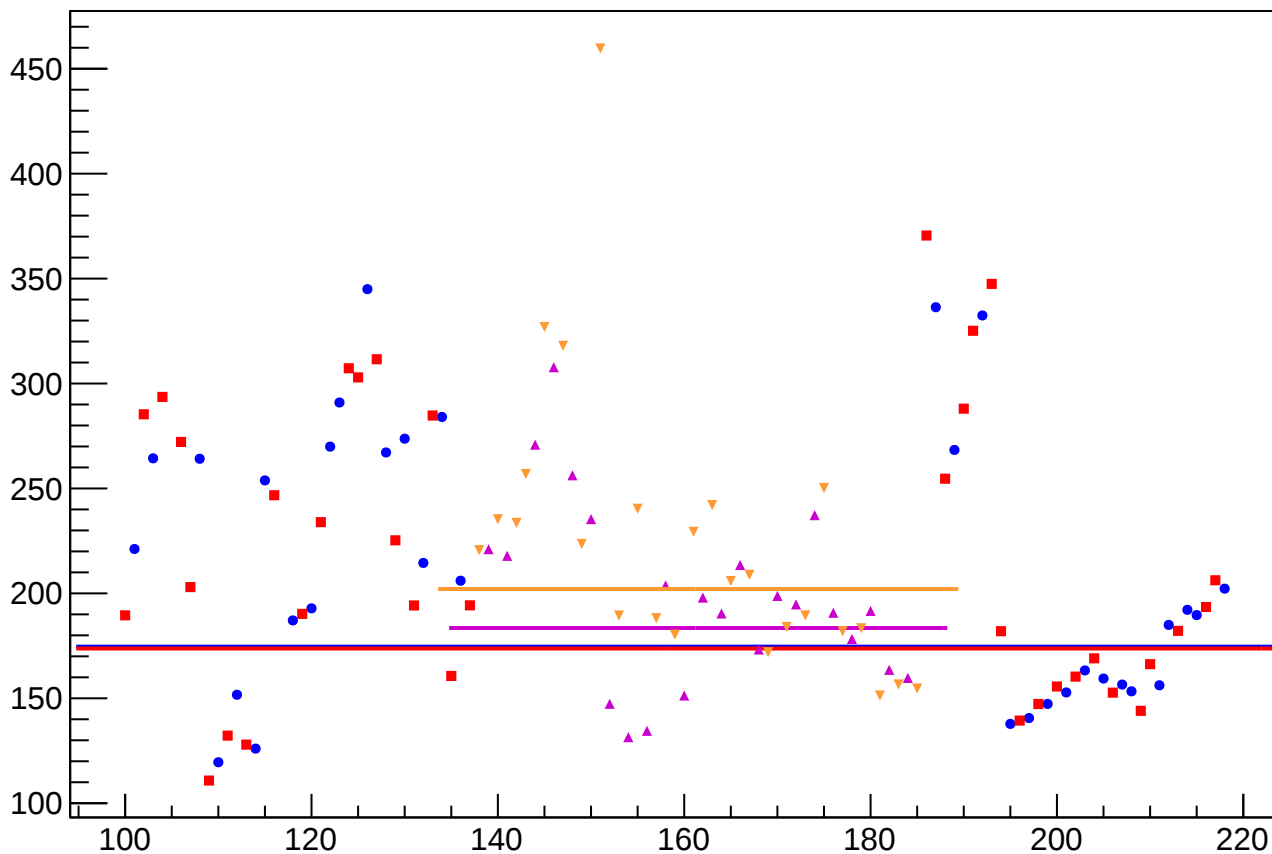
Right: -73.235 ± 30.000 $\chi^2/\text{NDF}: 32.8/68$

In: -15.603 ± 31.213 $\chi^2/\text{NDF}: 26.6/55$

Out: -35.317 ± 31.978 $\chi^2/\text{NDF}: 26.8/60$

All: -25.222 ± 22.337 $\chi^2/\text{NDF}: 53.6/116$

asym_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 174.610 $\pm$ 0.030 χ^2 /NDF: 2170448.7/32

Left Out: 202.081 $\pm$ 0.034 χ^2 /NDF:1692787.9/24

Right Out: 173.730 $\pm$ 0.030 χ^2 /NDF: 2828604.1/35

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

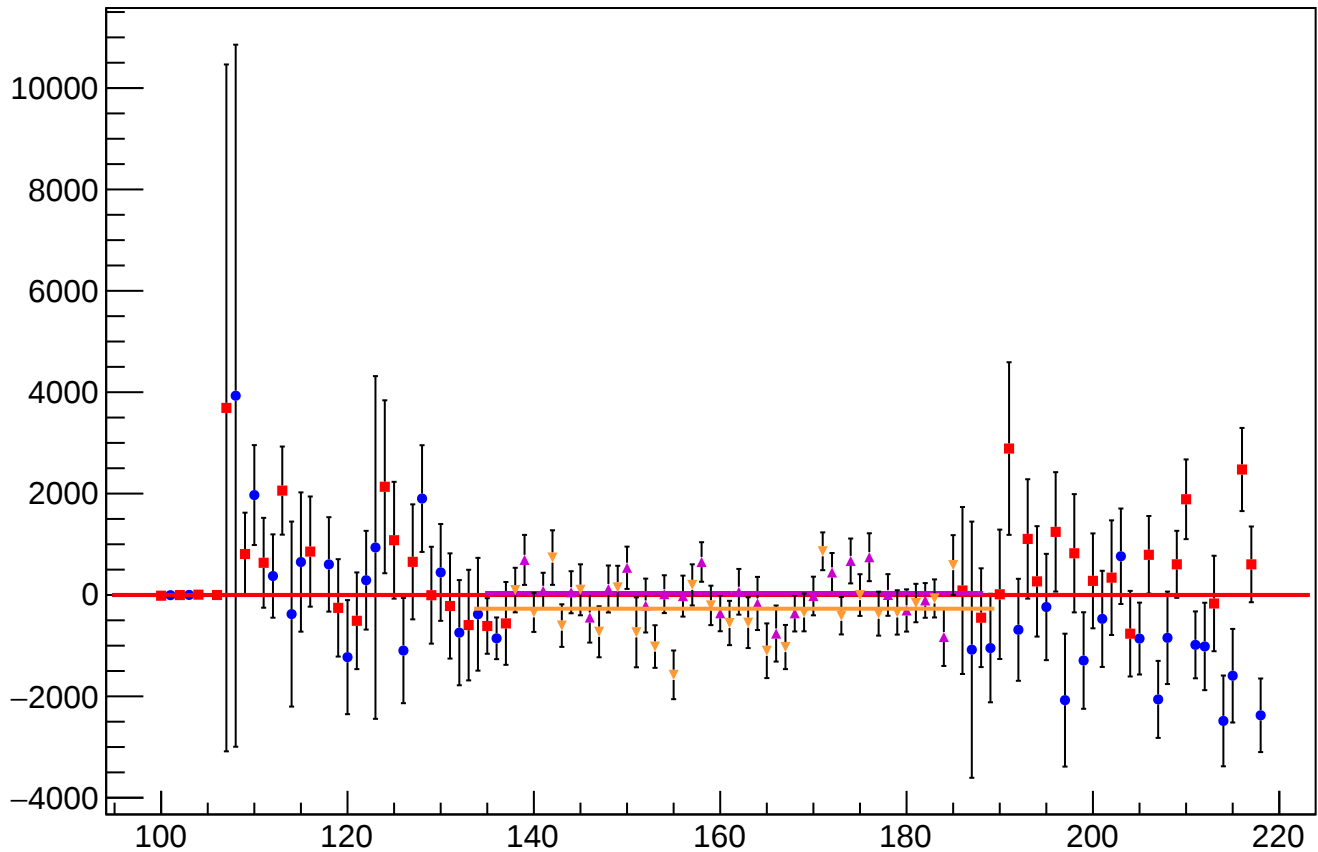
Right: 174.168 $\pm$ 0.021 χ^2 /NDF: 4999482.7/68

In: 178.706 $\pm$ 0.022 χ^2 /NDF:3694129.9/55

Out: 185.913 $\pm$ 0.023 χ^2 /NDF:4906616.7/60

All: 182.222 $\pm$ 0.016 χ^2 /NDF: 8652770.8/116

asym_cav4bQ_mean vs Slug, Sign Corrected



Right In: -1.649 ± 2.251 χ^2/NDF : 58.9/32

Left Out: -270.969 ± 86.967 χ^2/NDF : 38.1/24

Right Out: 0.784 ± 2.111 χ^2/NDF : 43.2/35

Left In: 39.078 ± 87.769 χ^2/NDF : 20.3/22

Left: -117.369 ± 61.777 χ^2/NDF : 64.7/47

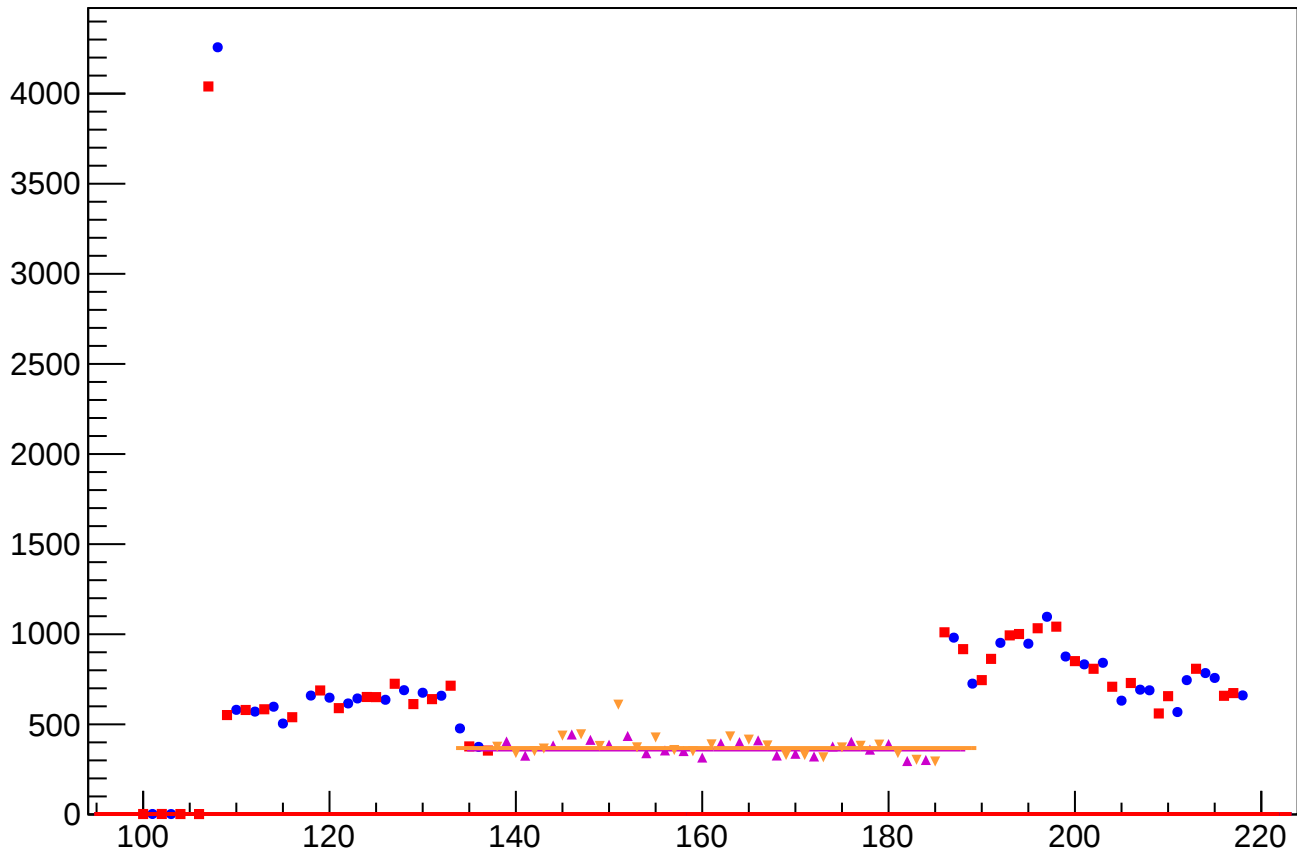
Right: -0.355 ± 1.540 χ^2/NDF : 102.8/68

In: -1.623 ± 2.251 χ^2/NDF : 79.4/55

Out: 0.624 ± 2.110 χ^2/NDF : 91.1/60

All: -0.427 ± 1.539 χ^2/NDF : 171.0/116

asym_cav4bQ_rms vs Slug, Sign Corrected



Right In: 2.531+/-0.002 χ^2/NDF : 33448481.1/32

Left Out: 368.397+/-0.061 χ^2/NDF : 622466.1/24

Right Out: 2.501+/-0.001 χ^2/NDF : 34050567.9/35

Left In: 360.408+/-0.062 χ^2/NDF : 417739.4/22

Left: 364.439+/-0.044 χ^2/NDF : 1048566.0/47

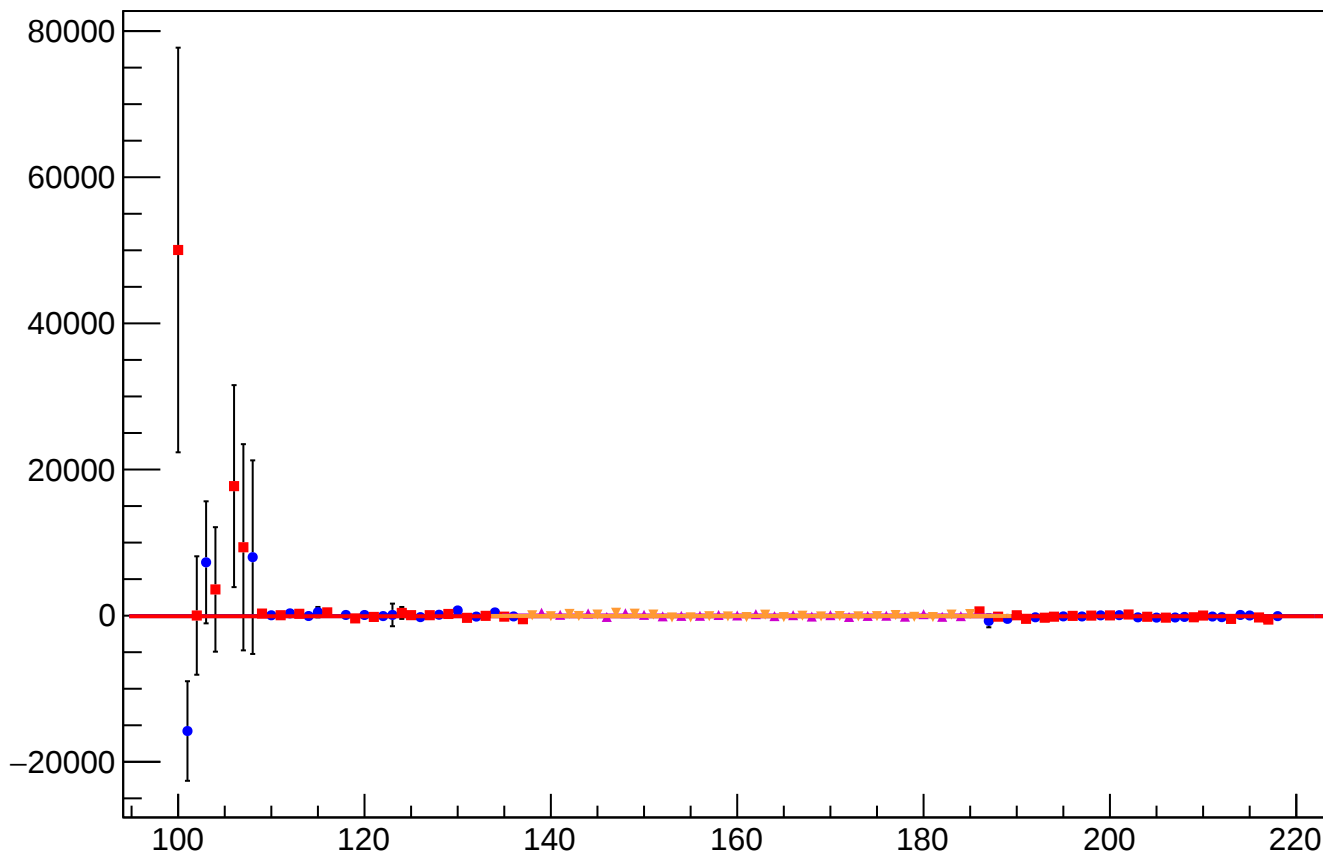
Right: 2.515+/-0.001 χ^2/NDF : 67499242.3/68

In: 2.766+/-0.002 χ^2/NDF : 67095837.7/55

Out: 2.716+/-0.001 χ^2/NDF : 70054679.2/60

All: 2.740+/-0.001 χ^2/NDF : 137151046.0/116

asym_cav4cQ_mean vs Slug, Sign Corrected



Right In: -58.757 ± 46.190 χ^2/NDF : 22.0/32

Left Out: -38.013 ± 49.628 χ^2/NDF : 9.3/24

Right Out: -80.278 ± 46.648 χ^2/NDF : 28.3/35

Left In: 28.205 ± 48.167 χ^2/NDF : 9.2/22

Left: -3.915 ± 34.564 χ^2/NDF : 19.4/47

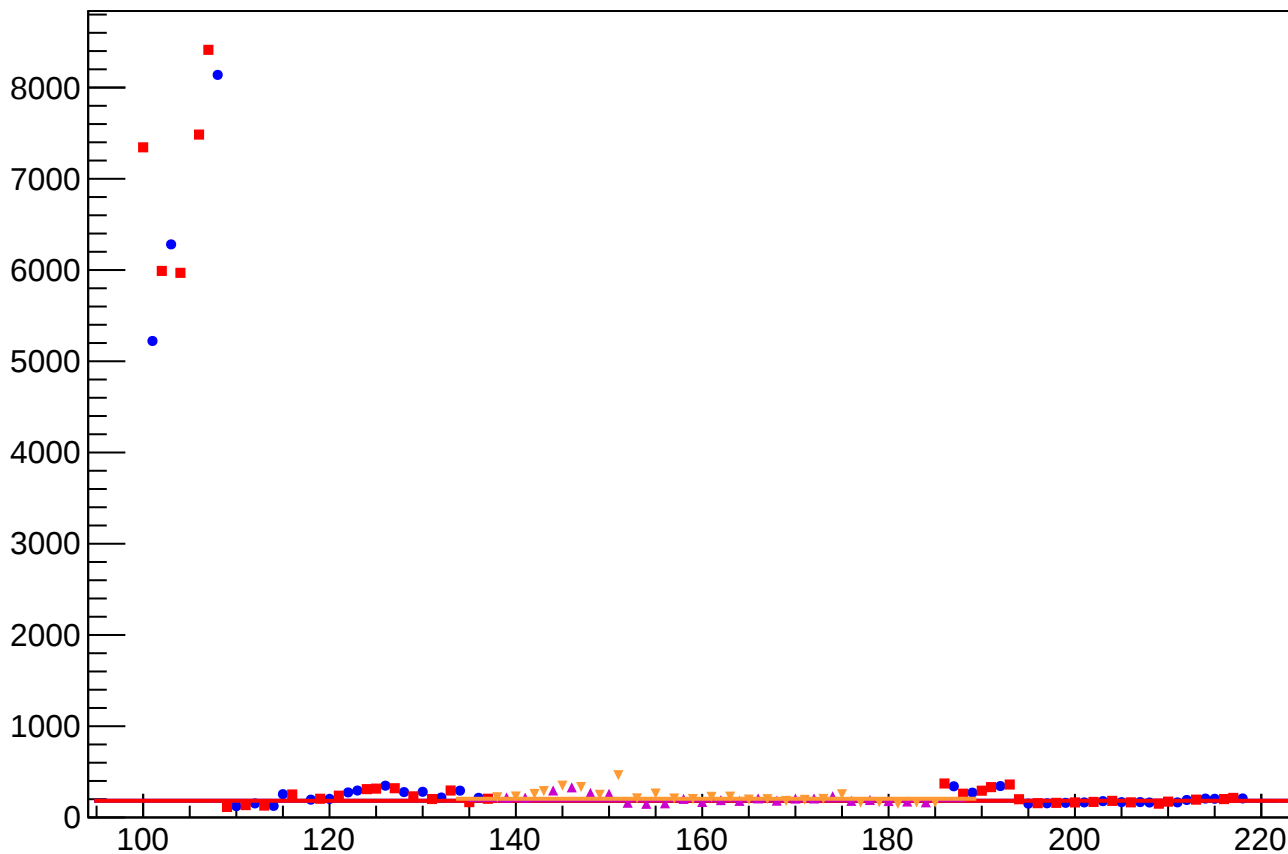
Right: -69.411 ± 32.822 χ^2/NDF : 50.4/68

In: -17.098 ± 33.338 χ^2/NDF : 32.9/55

Out: -60.453 ± 33.990 χ^2/NDF : 38.0/60

All: -38.356 ± 23.801 χ^2/NDF : 71.7/116

asym_cav4cQ_rms vs Slug, Sign Corrected



Right In: 183.013 $\pm$ 0.033 χ^2 /NDF: 4604747.7/32

Left Out: 205.027 $\pm$ 0.035 χ^2 /NDF:1956045.1/24

Right Out: 183.000 $\pm$ 0.033 χ^2 /NDF: 5472565.1/35

Left In: 193.405 $\pm$ 0.034 χ^2 /NDF:1172169.3/22

Left: 199.042 $\pm$ 0.024 χ^2 /NDF: 3184695.4/47

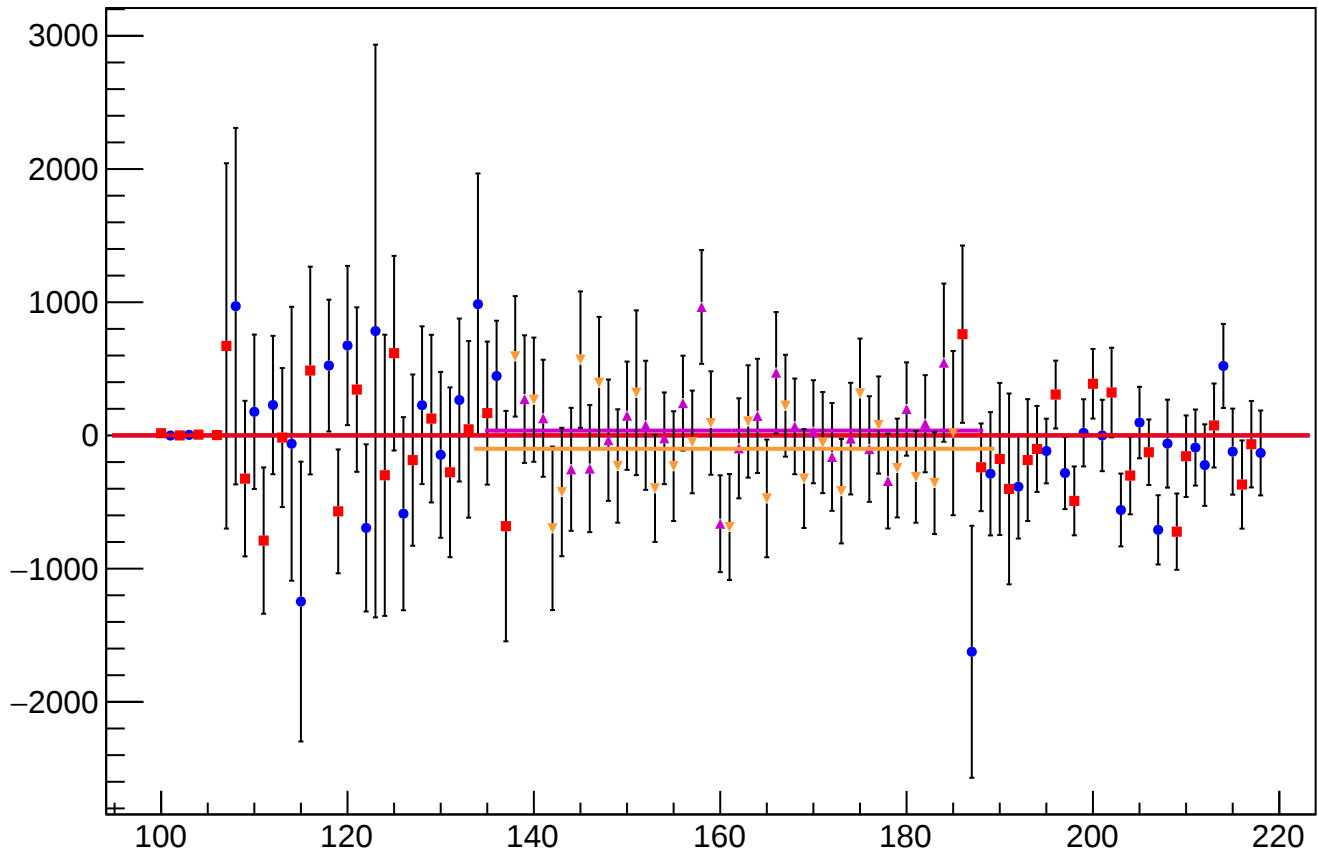
Right: 183.007 $\pm$ 0.023 χ^2 /NDF: 10077312.9/68

In: 187.991 $\pm$ 0.024 χ^2 /NDF:5825410.4/55

Out: 193.332 $\pm$ 0.024 χ^2 /NDF:7637782.0/60

All: 190.610 $\pm$ 0.017 χ^2 /NDF: 13488363.4/117

asym_cav4dQ_mean vs Slug, Sign Corrected



Right In: -0.227 ± 1.736 χ^2/NDF : 31.1/32

Left Out: -100.058 ± 84.190 χ^2/NDF : 15.7/24

Right Out: 1.277 ± 1.622 χ^2/NDF : 29.4/35

Left In: 36.497 ± 84.675 χ^2/NDF : 13.5/22

Left: -32.173 ± 59.702 χ^2/NDF : 30.5/47

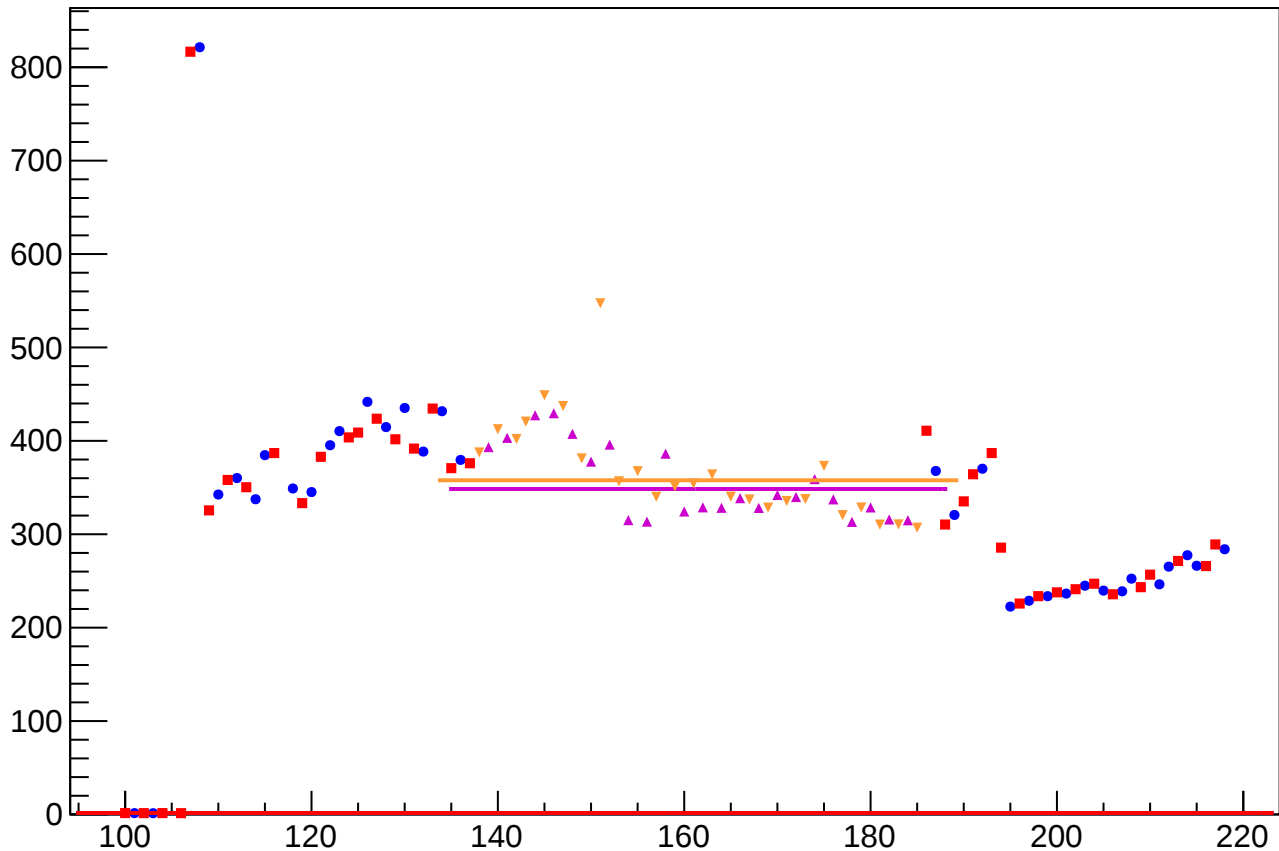
Right: 0.576 ± 1.185 χ^2/NDF : 60.9/68

In: -0.212 ± 1.736 χ^2/NDF : 44.8/55

Out: 1.239 ± 1.622 χ^2/NDF : 46.6/60

All: 0.563 ± 1.185 χ^2/NDF : 91.8/116

asym_cav4dQ_rms vs Slug, Sign Corrected



Right In: 1.586 $\pm$ 0.001 χ^2 /NDF: 33646555.4/32

Left Out: 357.771 $\pm$ 0.060 χ^2 /NDF:547124.8/24

Right Out: 1.564 $\pm$ 0.001 χ^2 /NDF: 33712808.7/35

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

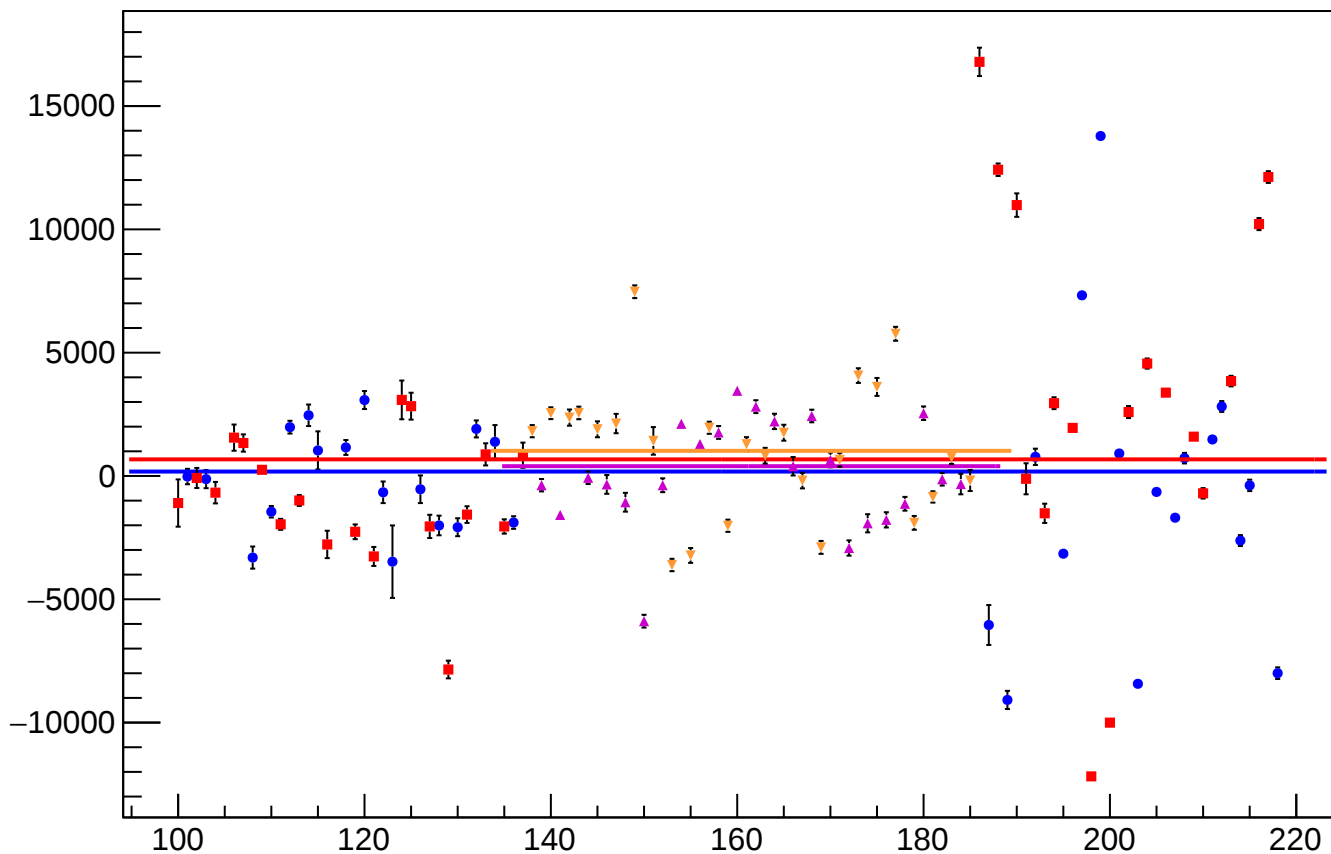
Right: 1.574 $\pm$ 0.001 χ^2 /NDF: 67359545.3/68

In: 1.732 $\pm$ 0.001 χ^2 /NDF:67556524.9/55

Out: 1.696 $\pm$ 0.001 χ^2 /NDF:70049448.8/60

All: 1.713 $\pm$ 0.001 χ^2 /NDF: 137606437.5/116

asym_bcm0l02_mean vs Slug, Sign Corrected



Right In: 178.988 $\pm$ 45.739 χ^2/NDF : 12424.0/32

Left Out: 1018.965 $\pm$ 57.402 χ^2/NDF : 2310.1/24

Right Out: 673.450 $\pm$ 45.447 χ^2/NDF : 17800.6/35

Left In: 396.609 $\pm$ 55.090 χ^2/NDF : 1581.0/22

Left: 695.002 $\pm$ 39.747 χ^2/NDF : 3952.3/47

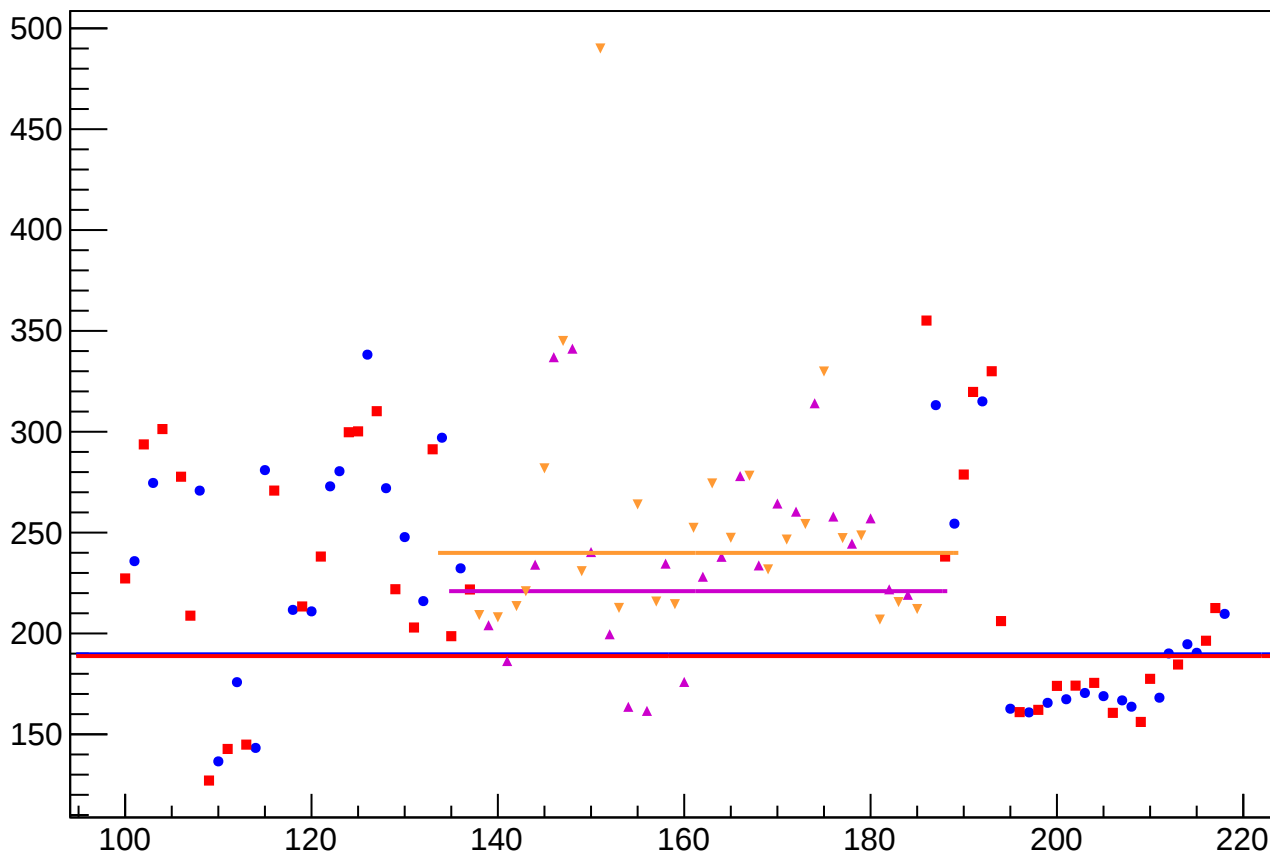
Right: 427.804 $\pm$ 32.239 χ^2/NDF : 30283.4/68

In: 267.788 $\pm$ 35.191 χ^2/NDF : 14014.3/55

Out: 806.580 $\pm$ 35.631 χ^2/NDF : 20133.0/60

All: 533.833 $\pm$ 25.038 χ^2/NDF : 34263.0/116

asym_bcm0l02_rms vs Slug, Sign Corrected



Right In: 189.656 $\pm$ 0.032 χ^2 /NDF: 1562244.1/32

Left Out: 239.942 $\pm$ 0.041 χ^2 /NDF:1000770.0/24

Right Out: 188.786 $\pm$ 0.032 χ^2 /NDF: 2144769.3/35

Left In: 220.972 $\pm$ 0.039 χ^2 /NDF:1327680.6/22

Left: 230.067 $\pm$ 0.028 χ^2 /NDF: 2442154.9/47

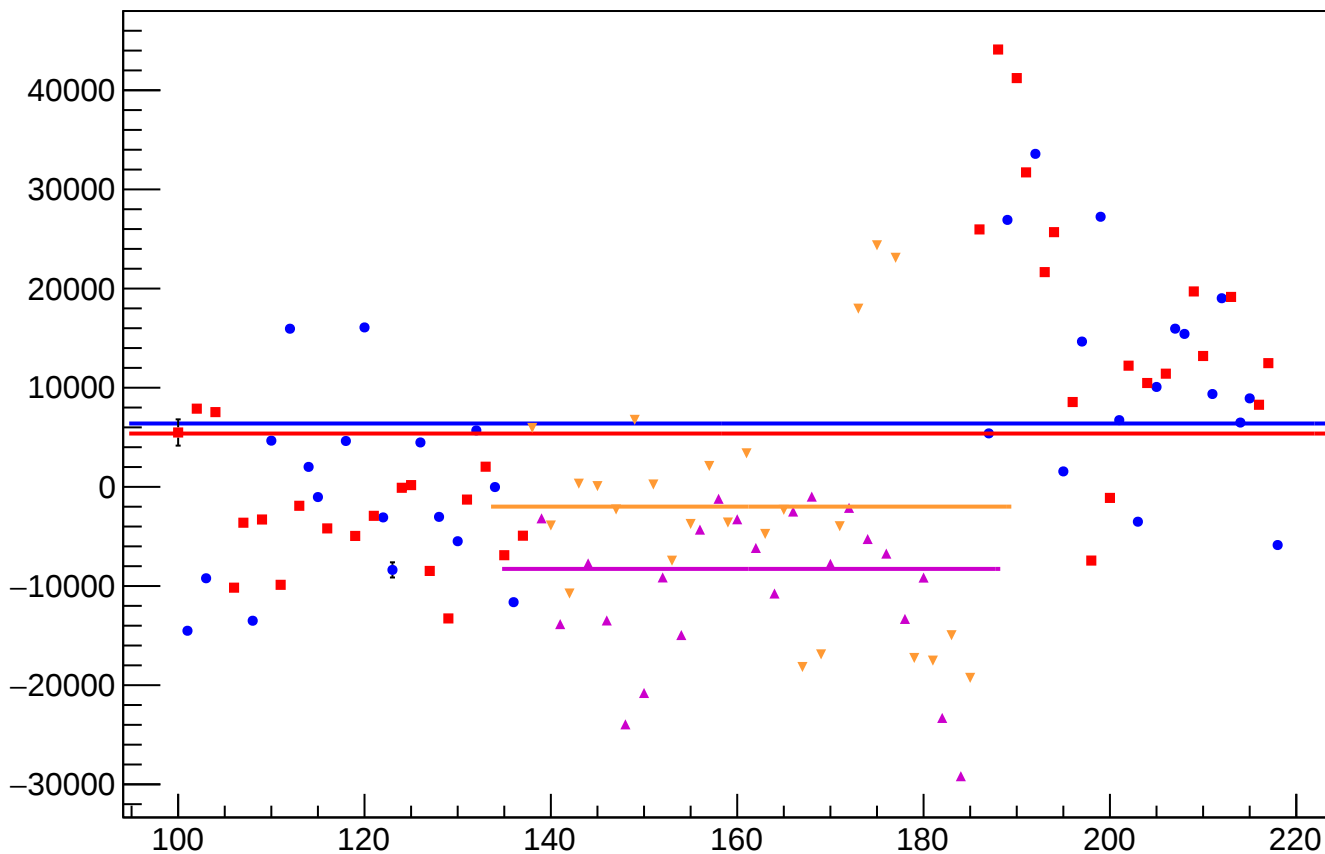
Right: 189.219 $\pm$ 0.023 χ^2 /NDF: 3707377.6/68

In: 202.435 $\pm$ 0.025 χ^2 /NDF:3272463.6/55

Out: 208.497 $\pm$ 0.025 χ^2 /NDF:4121912.7/60

All: 205.428 $\pm$ 0.018 χ^2 /NDF: 7423685.3/116

asym_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 6390.764 $\pm$ 39.206 χ^2/NDF : 96018.3/32

Left Out: -1991.788 $\pm$ 42.427 χ^2/NDF : 63766.6/24

Right Out: 5377.673 $\pm$ 37.961 χ^2/NDF : 144907.7/35

Left In: -8273.228 $\pm$ 44.301 χ^2/NDF : 22870.2/22

Left: -4996.810 $\pm$ 30.641 χ^2/NDF : 97123.2/47

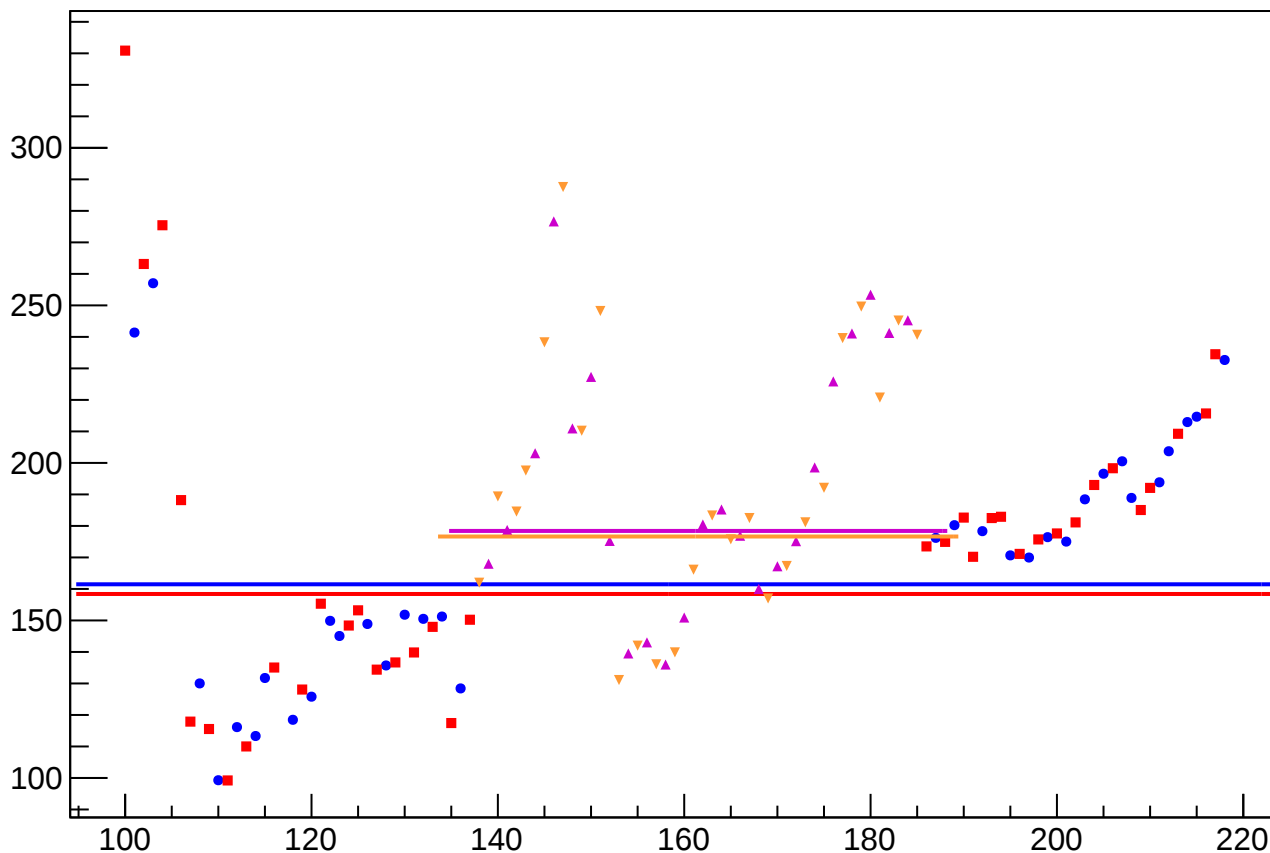
Right: 5867.875 $\pm$ 27.272 χ^2/NDF : 241270.7/68

In: -49.896 $\pm$ 29.360 χ^2/NDF : 180331.0/55

Out: 2101.058 $\pm$ 28.290 χ^2/NDF : 225430.7/60

All: 1065.482 $\pm$ 20.372 χ^2/NDF : 408545.0/11

asym_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 161.476+/-0.028 χ^2/NDF : 1777563.0/32

Left Out: 176.641+/-0.030 χ^2/NDF :1551048.8/24

Right Out: 158.400+/-0.027 χ^2/NDF : 1998472.4/35

Left In: 178.413+/-0.031 χ^2/NDF :1293736.2/22

Left: 177.489+/-0.022 χ^2/NDF : 2846455.0/47

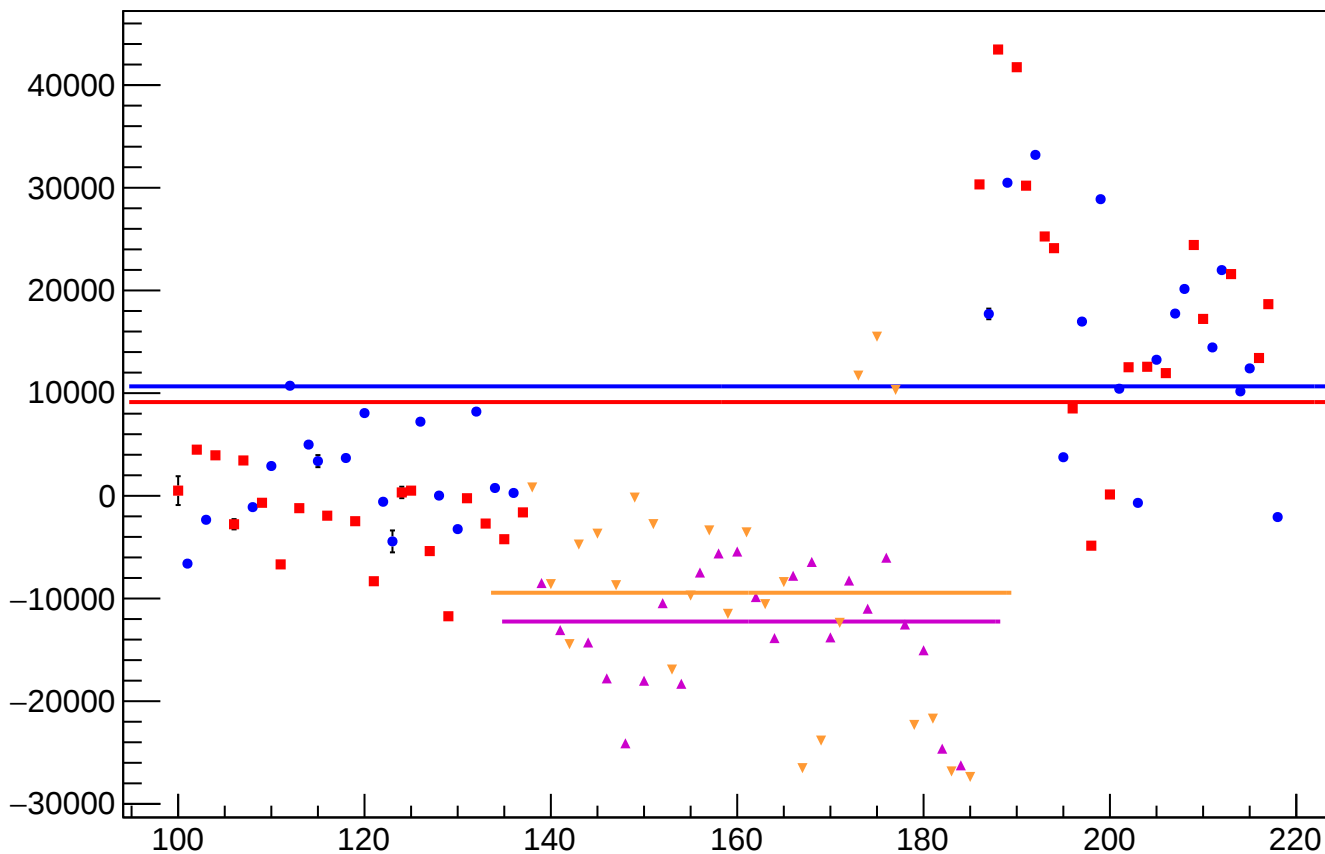
Right: 159.888+/-0.019 χ^2/NDF : 3782389.8/68

In: 168.915+/-0.021 χ^2/NDF :3235237.2/55

Out: 166.510+/-0.020 χ^2/NDF :3754838.7/60

All: 167.668+/-0.014 χ^2/NDF : 6997034.6/116

asym_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 10660.821+/-42.981

χ^2/NDF : 57632.3/32

Left Out: -9437.408+/-45.534

χ^2/NDF : 62220.4/24

Right Out: 9129.502+/-41.838

χ^2/NDF : 117279.5/35

Left In: -12242.226+/-43.944

χ^2/NDF : 16615.8/22

Left: -10889.638+/-31.621

χ^2/NDF : 80800.7/47

Right: 9874.537+/-29.980

χ^2/NDF : 175563.5/68

In: -536.886+/-30.727

χ^2/NDF : 213073.7/55

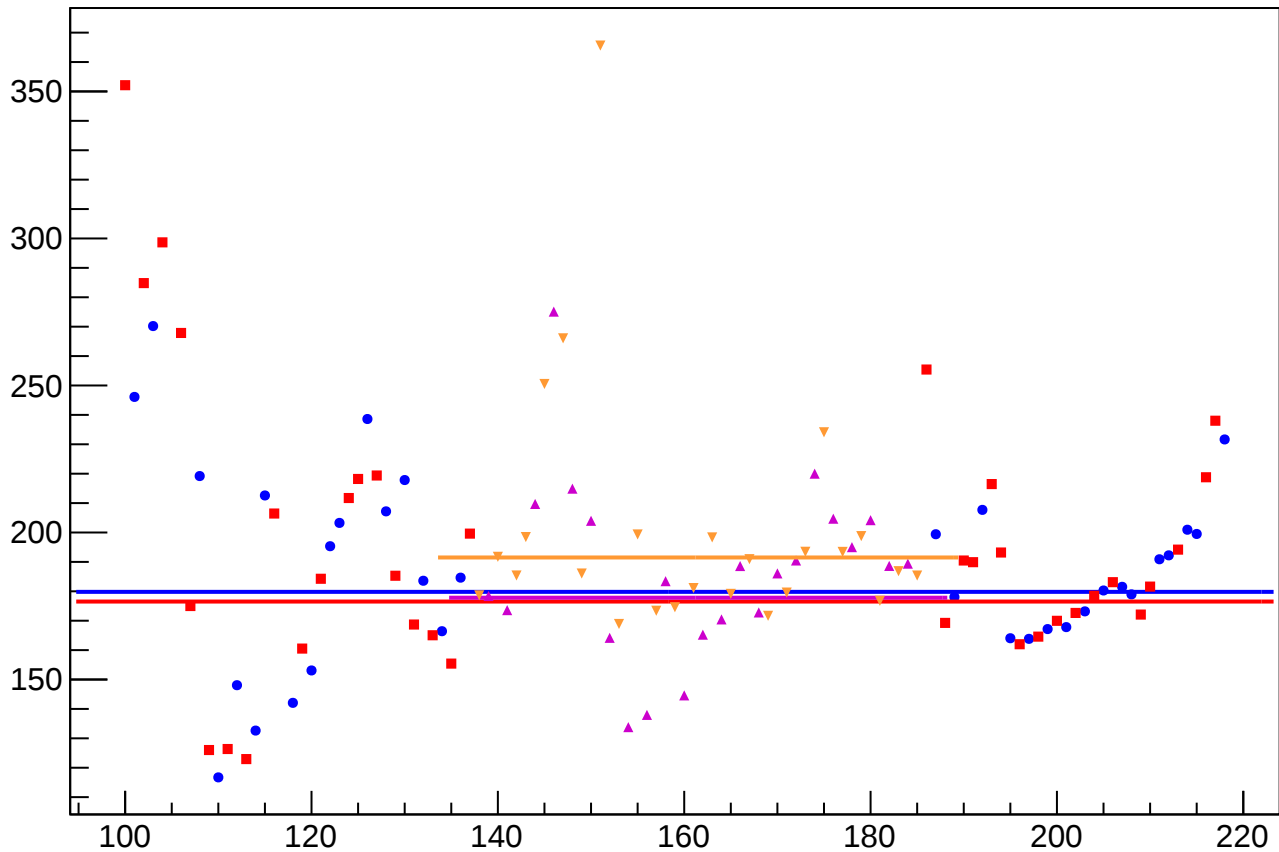
Out: 630.045+/-30.808

χ^2/NDF : 269653.1/60

All: 45.044+/-21.756

χ^2/NDF : 483446.0/116

asym_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 179.813+/-0.030 χ^2/NDF : 900735.9/32

Left Out: 191.507+/-0.032 χ^2/NDF : 727251.6/24

Right Out: 176.515+/-0.030 χ^2/NDF : 1312749.3/35

Left In: 177.821+/-0.031 χ^2/NDF : 862494.4/22

Left: 184.421+/-0.022 χ^2/NDF : 1683284.8/47

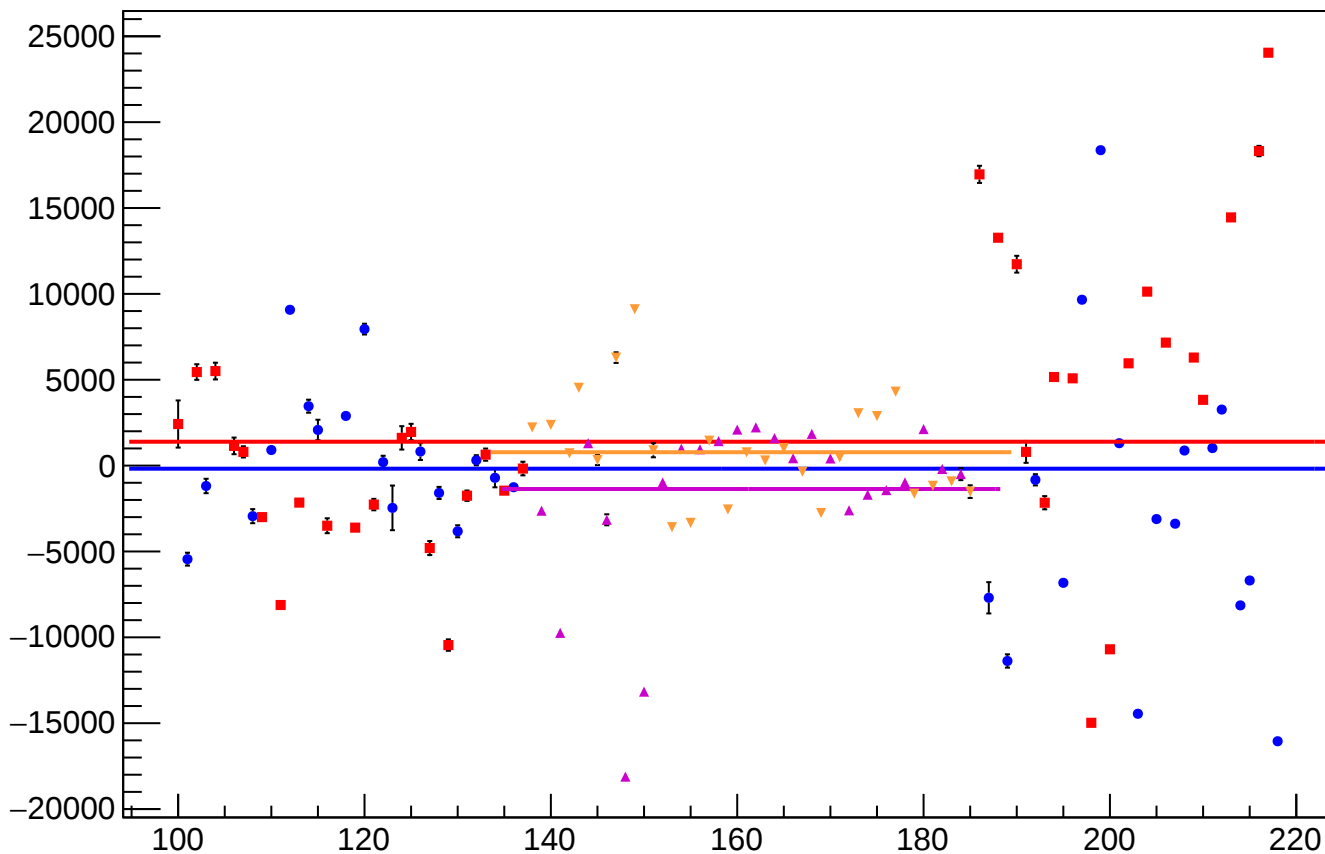
Right: 178.120+/-0.021 χ^2/NDF : 2219531.8/68

In: 178.839+/-0.022 χ^2/NDF : 1765329.9/55

Out: 183.378+/-0.022 χ^2/NDF : 2157553.9/60

All: 181.103+/-0.015 χ^2/NDF : 3944642.7/116

asym_bpm0i05WS_mean vs Slug, Sign Corrected



Right In: -179.708 ± 48.117 $\chi^2/\text{NDF}: 25497.0/32$

Left Out: 779.983 ± 47.457 $\chi^2/\text{NDF}: 4260.8/24$

Right Out: 1390.997 ± 47.038 $\chi^2/\text{NDF}: 34515.6/35$

Left In: -1363.043 ± 45.807 $\chi^2/\text{NDF}: 11632.9/22$

Left: -329.448 ± 32.958 $\chi^2/\text{NDF}: 16949.3/47$

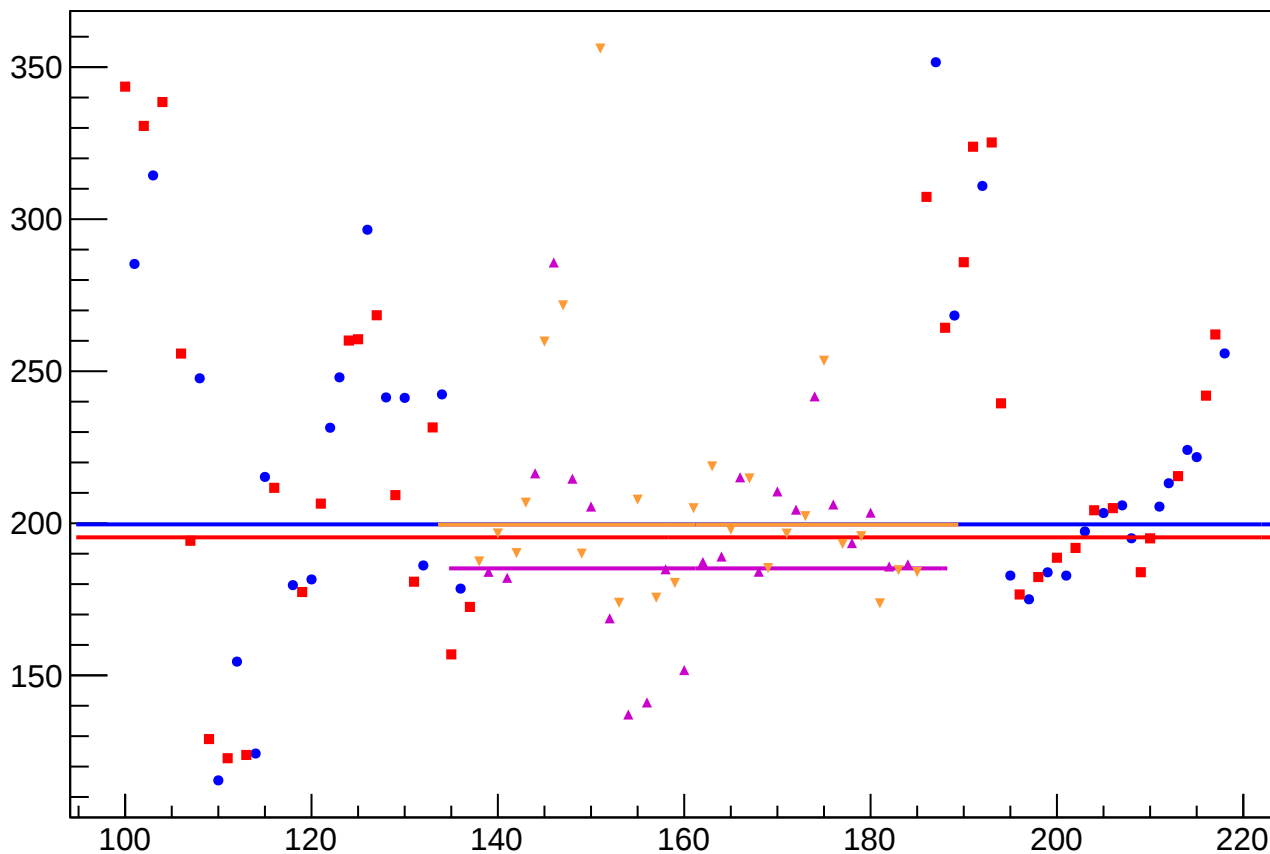
Right: 623.454 ± 33.636 $\chi^2/\text{NDF}: 60557.5/68$

In: -800.468 ± 33.177 $\chi^2/\text{NDF}: 37447.2/55$

Out: 1088.201 ± 33.408 $\chi^2/\text{NDF}: 38860.0/60$

All: 137.307 ± 23.541 $\chi^2/\text{NDF}: 77916.3/116$

asym_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 199.645 ± 0.034 $\chi^2/\text{NDF}: 1547842.9/32$

Left Out: 199.547 ± 0.034 $\chi^2/\text{NDF}: 729356.3/24$

Right Out: 195.379 ± 0.033 $\chi^2/\text{NDF}: 2321442.1/35$

Left In: 185.171 ± 0.032 $\chi^2/\text{NDF}: 882752.2/22$

Left: 192.104 ± 0.023 $\chi^2/\text{NDF}: 1707122.0/47$

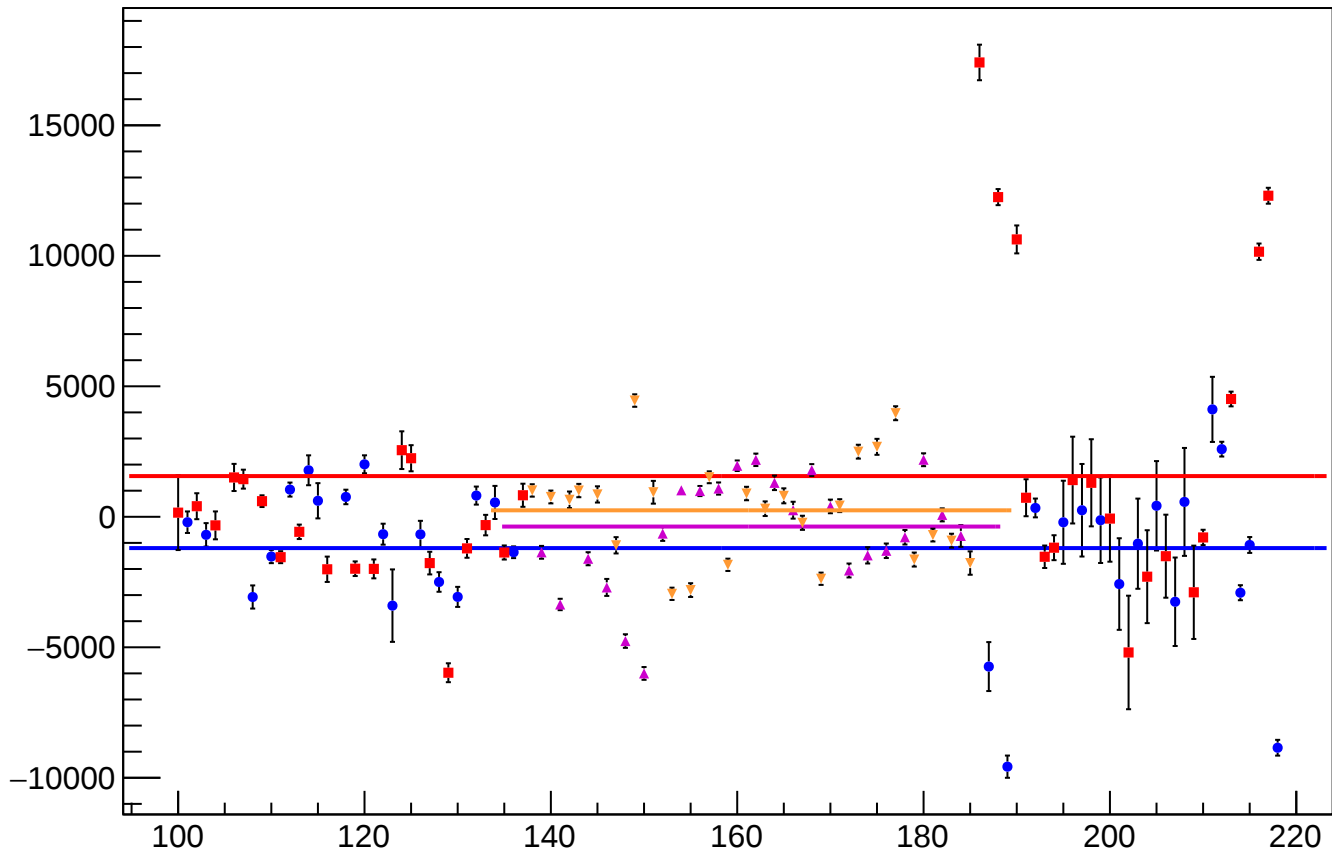
Right: 197.464 ± 0.024 $\chi^2/\text{NDF}: 3877325.3/68$

In: 192.052 ± 0.023 $\chi^2/\text{NDF}: 2525537.6/55$

Out: 197.444 ± 0.024 $\chi^2/\text{NDF}: 3058580.4/60$

All: 194.729 ± 0.017 $\chi^2/\text{NDF}: 5610350.6/116$

asym_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -1198.997 $\pm$ 72.398 χ^2/NDF : 1656.7/32

Left Out: 247.844 $\pm$ 53.555 χ^2/NDF :1355.1/24

Right Out: 1559.932 $\pm$ 66.936 χ^2/NDF : 5599.6/35

Left In: -374.122 $\pm$ 52.049 χ^2/NDF :1801.0/22

Left: -72.006 $\pm$ 37.325 χ^2/NDF : 3225.5/47

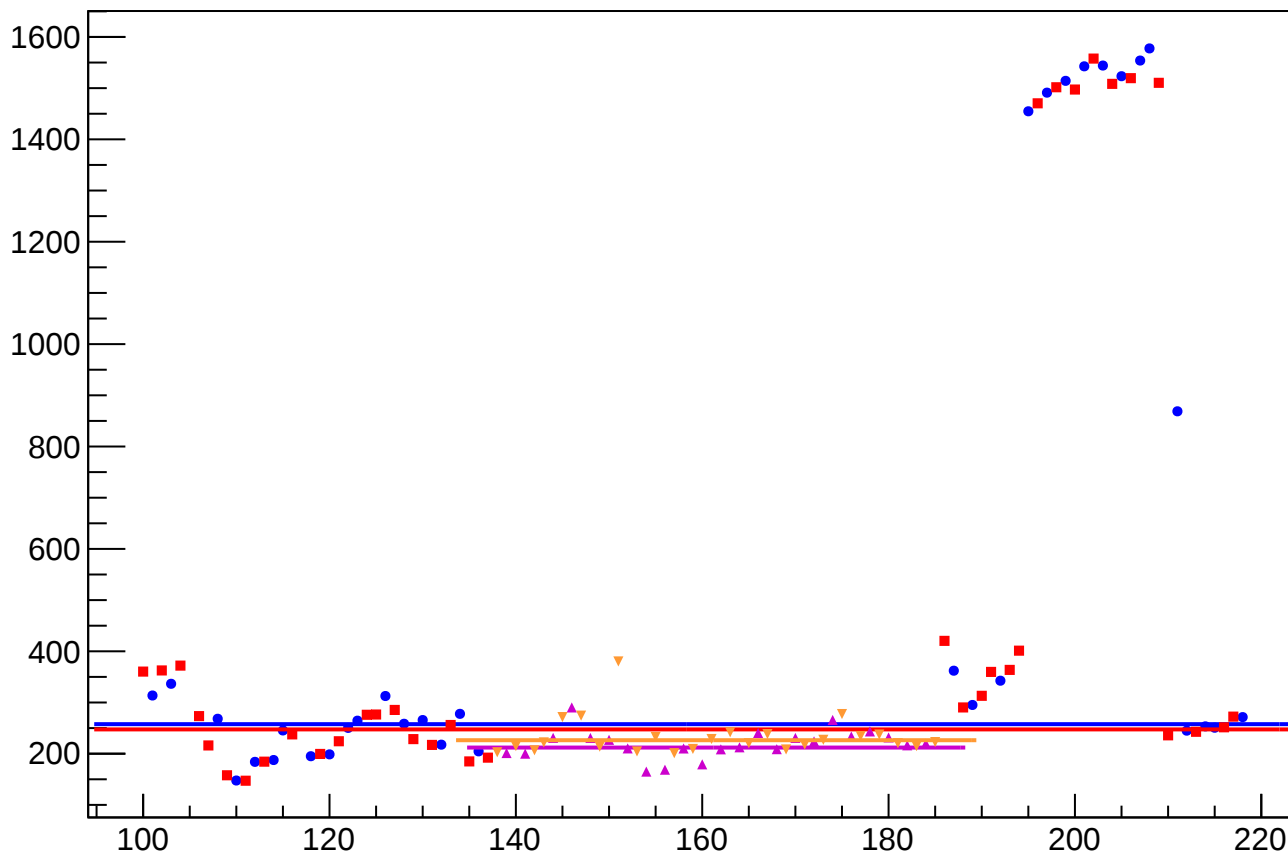
Right: 288.449 $\pm$ 49.149 χ^2/NDF : 8039.1/68

In: -655.192 $\pm$ 42.261 χ^2/NDF :3543.3/55

Out: 759.947 $\pm$ 41.818 χ^2/NDF :7188.9/60

All: 59.842 $\pm$ 29.725 χ^2/NDF : 11298.7/116

asym_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 257.675+/-0.051 χ^2/NDF : 10151378.9/32

Left Out: 226.322+/-0.038 χ^2/NDF : 521041.8/24

Right Out: 247.435+/-0.047 χ^2/NDF : 9288035.3/35

Left In: 211.970+/-0.037 χ^2/NDF : 584344.5/22

Left: 218.941+/-0.026 χ^2/NDF : 1179246.7/47

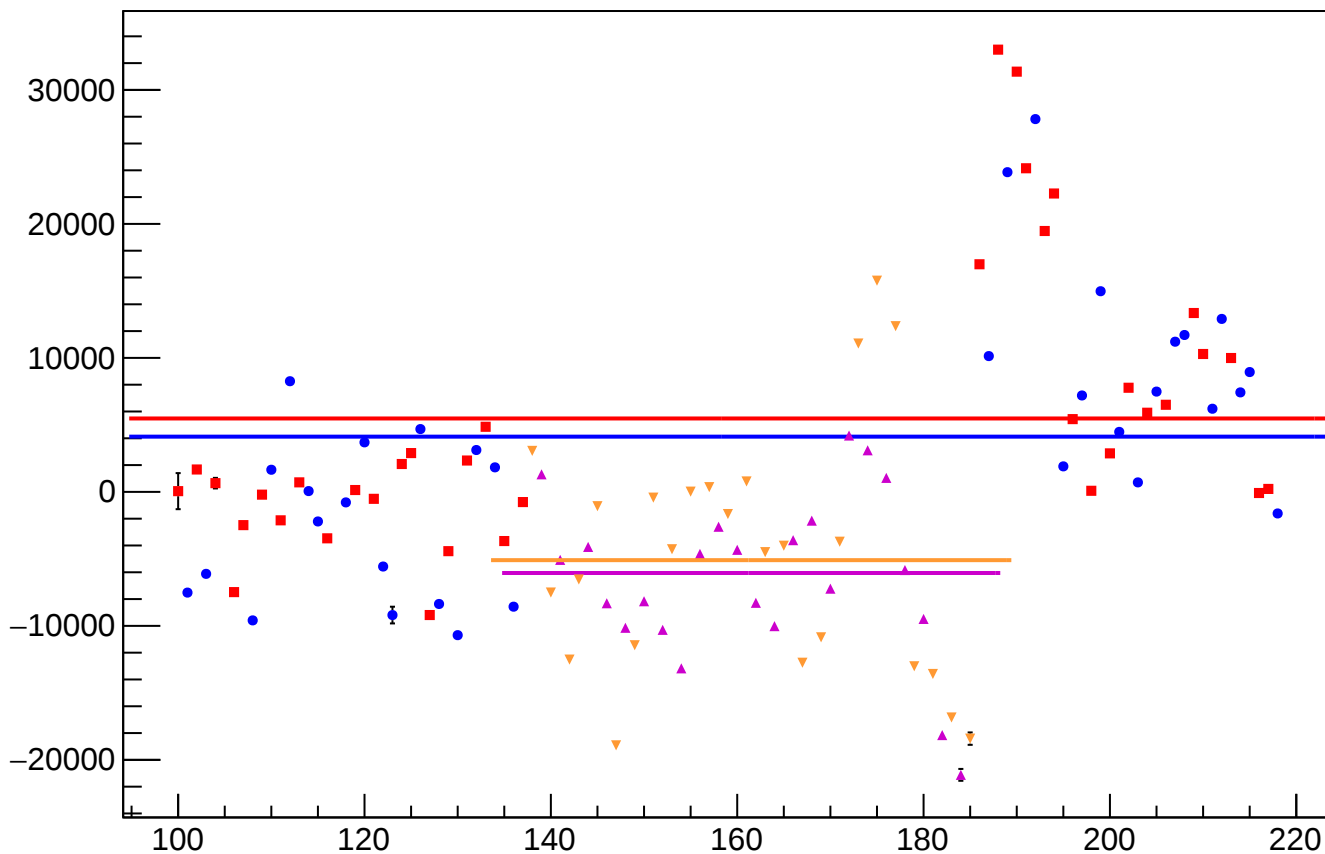
Right: 252.154+/-0.035 χ^2/NDF : 19460986.4/68

In: 227.544+/-0.030 χ^2/NDF : 11261206.0/55

Out: 234.562+/-0.030 χ^2/NDF : 9930397.0/60

All: 231.090+/-0.021 χ^2/NDF : 21219473.5/111

asym_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: 4122.799 $\pm$ 33.343

χ^2/NDF : 80792.0/32

Left: -5556.386 $\pm$ 24.277 χ^2/NDF : 72374.6/47

Right: 4827.509 $\pm$ 23.108 χ^2/NDF : 186731.6/68

Left Out: -5095.305 $\pm$ 33.703

χ^2/NDF : 54395.4/24

In: -719.032 $\pm$ 24.141 χ^2/NDF : 142702.5/55

Right Out: 5478.795 $\pm$ 32.054

χ^2/NDF : 105080.1/35

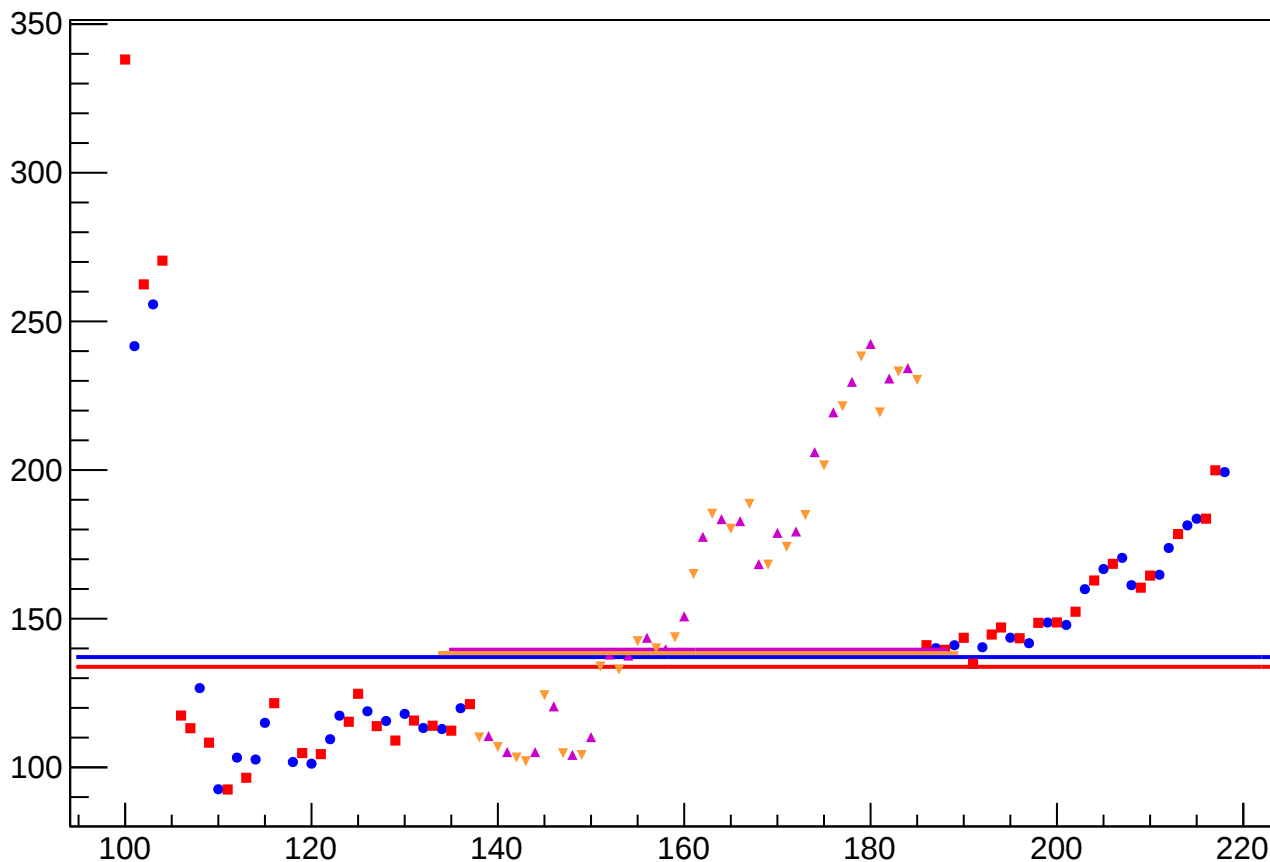
Out: 456.838 $\pm$ 23.227 χ^2/NDF : 211159.4/60

Left In: -6053.569 $\pm$ 34.998

χ^2/NDF : 17590.3/22

All: -108.415 $\pm$ 16.738 χ^2/NDF : 355093.9/11

asym_bpm1i02WS_rms vs Slug, Sign Corrected



Right In: 137.090 $\pm$ 0.024 χ^2/NDF : 1789469.3/32

Left Out: 138.436 $\pm$ 0.024 χ^2/NDF :2549435.8/24

Right Out: 133.816 $\pm$ 0.023 χ^2/NDF : 1862924.2/35

Left In: 139.578 $\pm$ 0.025 χ^2/NDF :2413658.9/22

Left: 138.985 $\pm$ 0.017 χ^2/NDF : 4964199.7/47

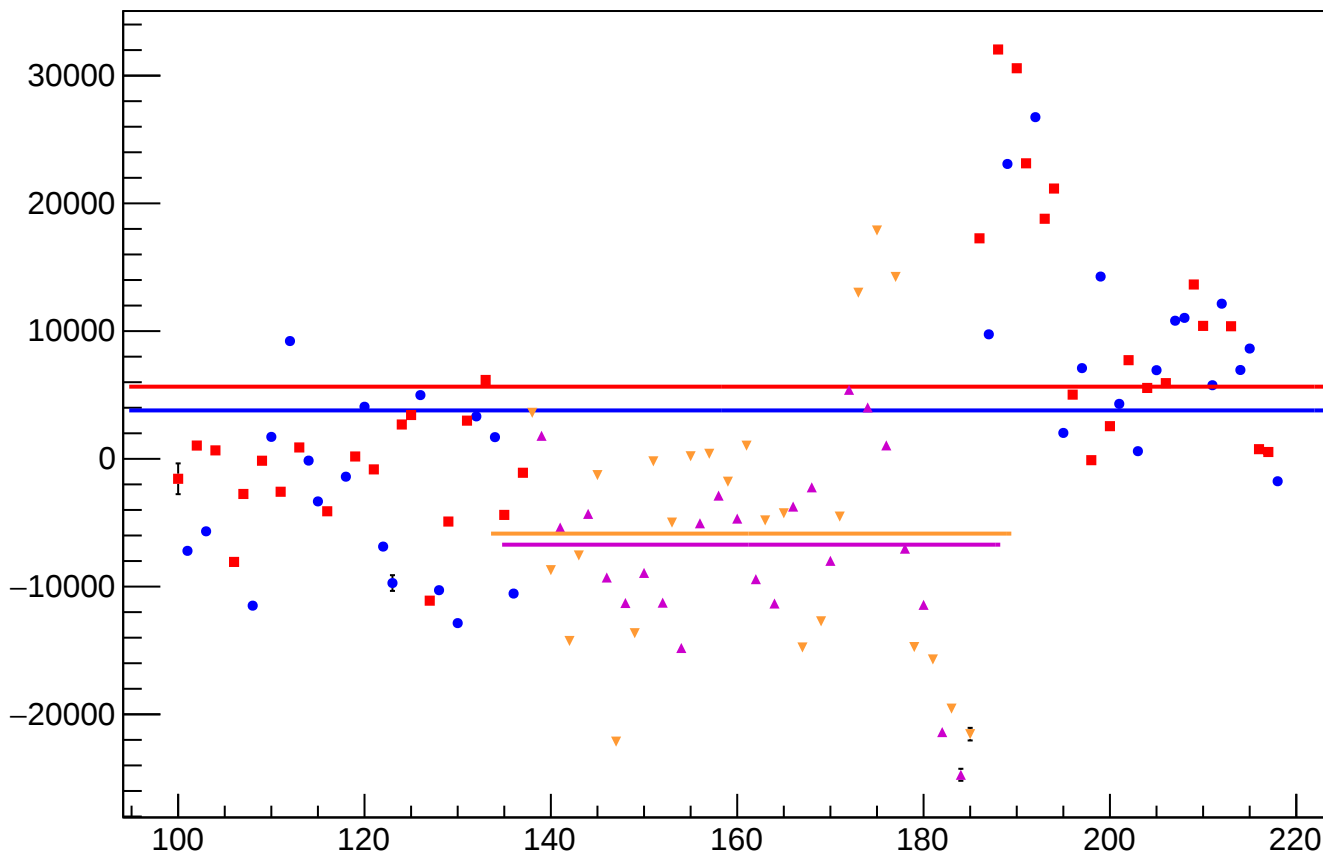
Right: 135.388 $\pm$ 0.016 χ^2/NDF : 3662419.9/68

In: 138.274 $\pm$ 0.017 χ^2/NDF :4208423.8/55

Out: 136.010 $\pm$ 0.016 χ^2/NDF :4432092.9/60

All: 137.098 $\pm$ 0.012 χ^2/NDF : 8649651.5/116

asym_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: 3790.927+/-33.247

χ^2/NDF : 85928.0/32

Left: -6268.993+/-25.850

χ^2/NDF : 84625.8/47

Left Out: -5852.544+/-35.880

χ^2/NDF : 63411.4/24

Right: 4753.316+/-23.099

χ^2/NDF : 193317.2/68

Right Out: 5651.263+/-32.115

χ^2/NDF : 105769.6/35

In: -865.420+/-24.812

χ^2/NDF : 151132.5/55

Out: 534.391+/-23.929

χ^2/NDF : 226254.6/60

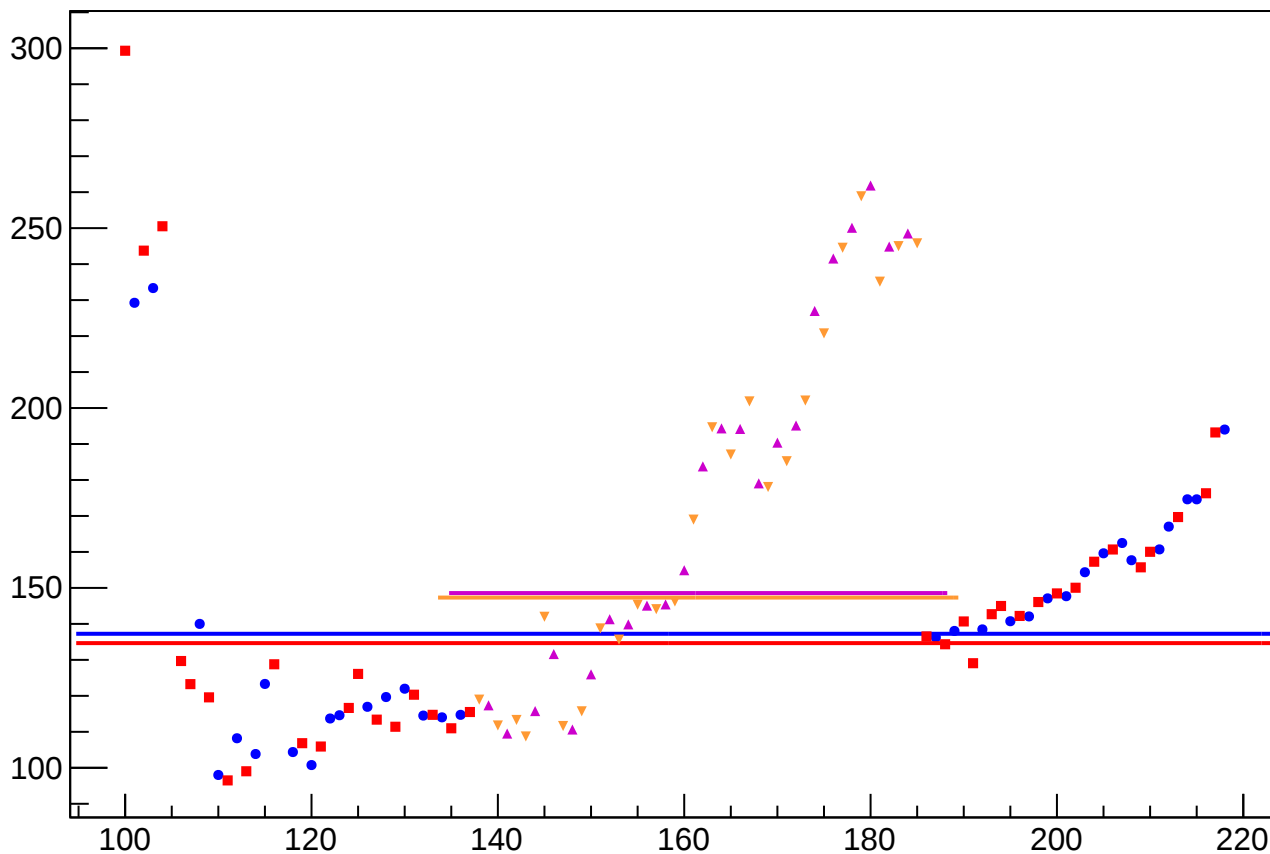
Left In: -6718.475+/-37.276

χ^2/NDF : 20934.3/22

All: -140.180+/-17.224

χ^2/NDF : 379036.1/11

asym_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 137.252 $\pm$ 0.024 χ^2/NDF : 1424163.8/32

Left Out: 147.317 $\pm$ 0.025 χ^2/NDF : 2511679.9/24

Right Out: 134.657 $\pm$ 0.023 χ^2/NDF : 1455073.1/35

Left In: 148.569 $\pm$ 0.026 χ^2/NDF : 2393185.0/22

Left: 147.919 $\pm$ 0.018 χ^2/NDF : 4906034.9/47

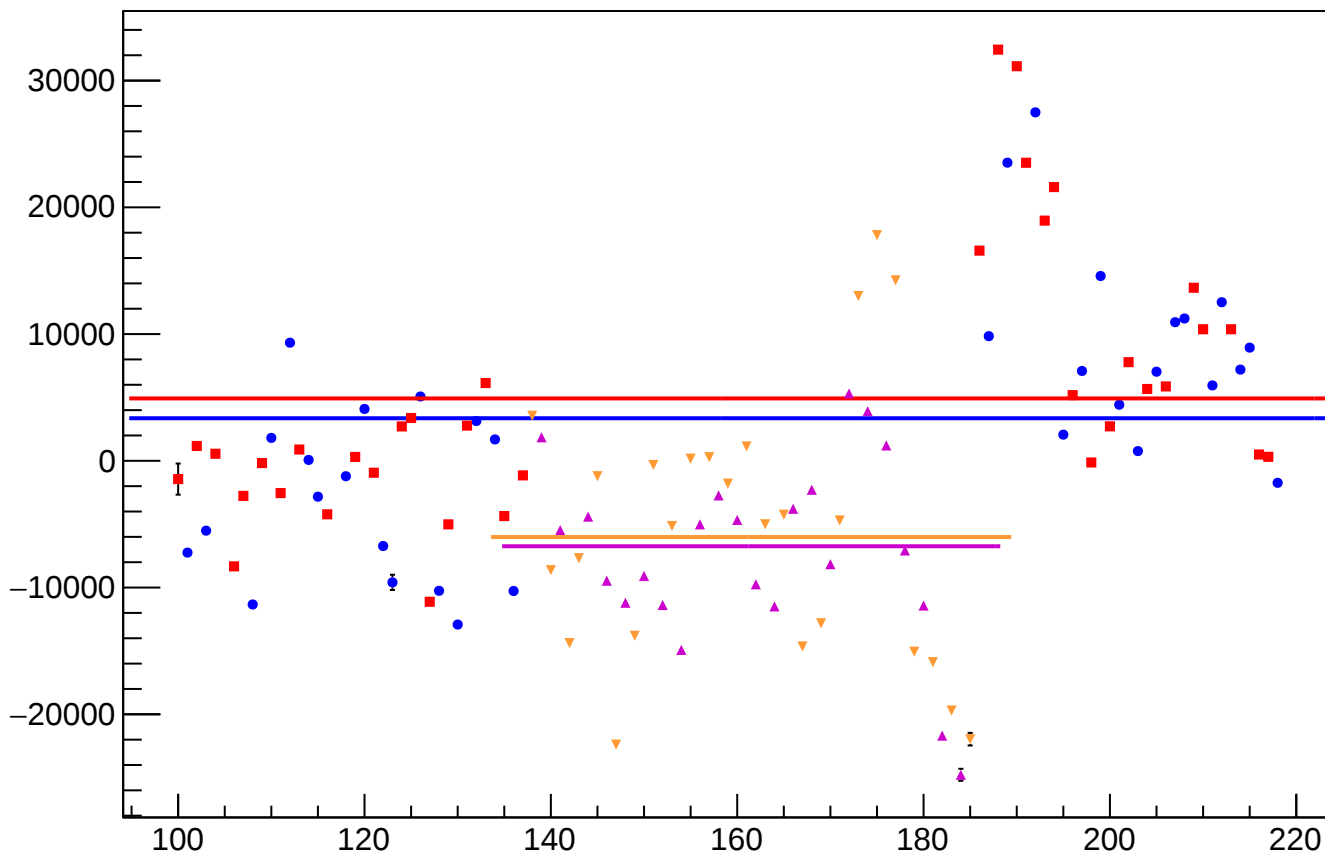
Right: 135.909 $\pm$ 0.016 χ^2/NDF : 2885536.1/68

In: 142.266 $\pm$ 0.018 χ^2/NDF : 3920020.4/55

Out: 140.288 $\pm$ 0.017 χ^2/NDF : 4104995.0/60

All: 141.241 $\pm$ 0.012 χ^2/NDF : 8031596.1/116

asym_bpm2i02WS_mean vs Slug, Sign Corrected



Right In: 3360.156+/-33.379

χ^2/NDF : 85598.3/32

Left Out: -6009.913+/-35.082

χ^2/NDF : 67852.2/24

Right Out: 4922.913+/-32.221

χ^2/NDF : 100514.9/35

Left In: -6740.666+/-36.379

χ^2/NDF : 22071.8/22

Left: -6362.031+/-25.253

χ^2/NDF : 90133.1/47

Right: 4169.119+/-23.182

χ^2/NDF : 187247.9/68

In: -1256.597+/-24.595

χ^2/NDF : 149525.2/55

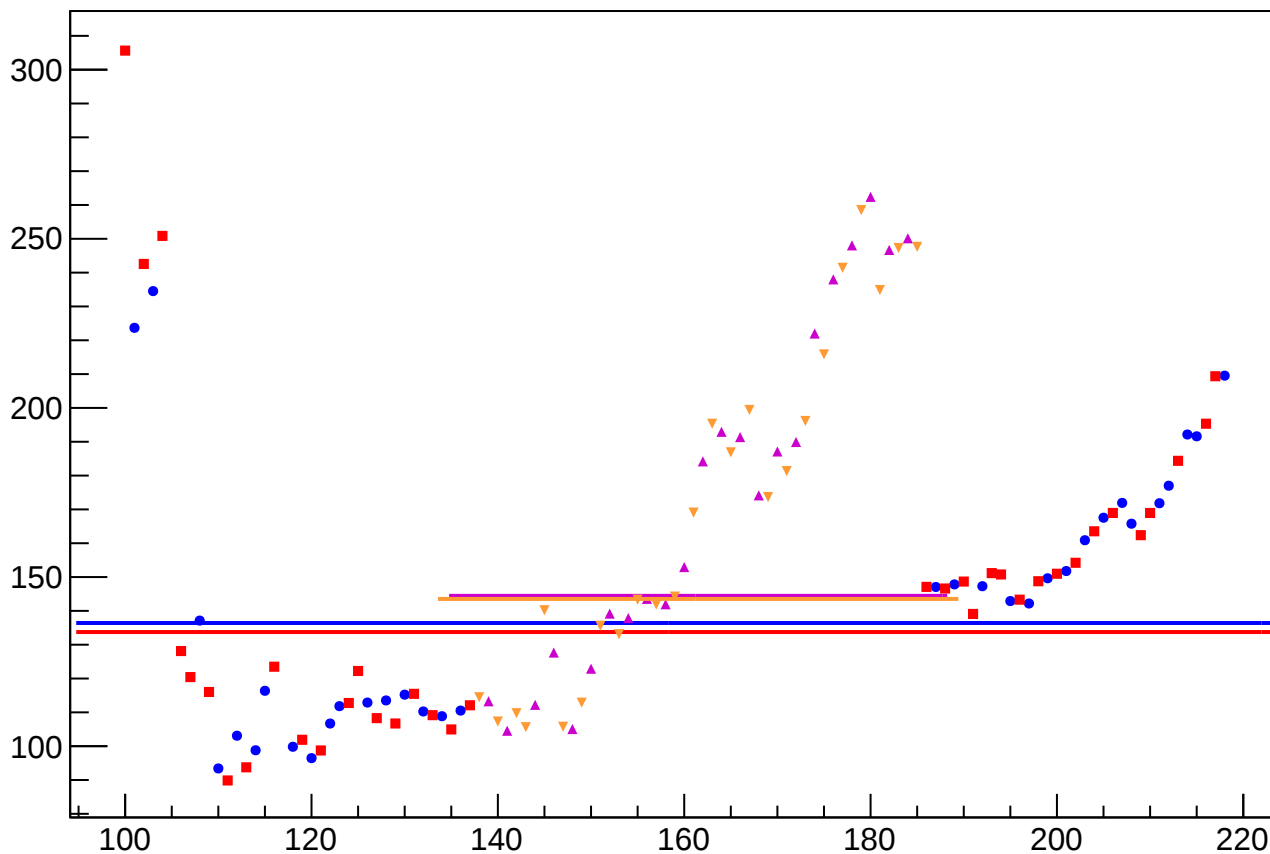
Out: -79.474+/-23.731

χ^2/NDF : 221046.7/60

All: -646.992+/-17.077

χ^2/NDF : 371758.2/111

asym_bpm2i02WS_rms vs Slug, Sign Corrected



Right In: 136.425+/-0.024 χ^2/NDF : 2021426.3/32

Left Out: 143.531+/-0.025 χ^2/NDF : 2704790.3/24

Right Out: 133.748+/-0.023 χ^2/NDF : 2077137.3/35

Left In: 144.440+/-0.026 χ^2/NDF : 2586926.1/22

Left: 143.969+/-0.018 χ^2/NDF : 5292363.3/47

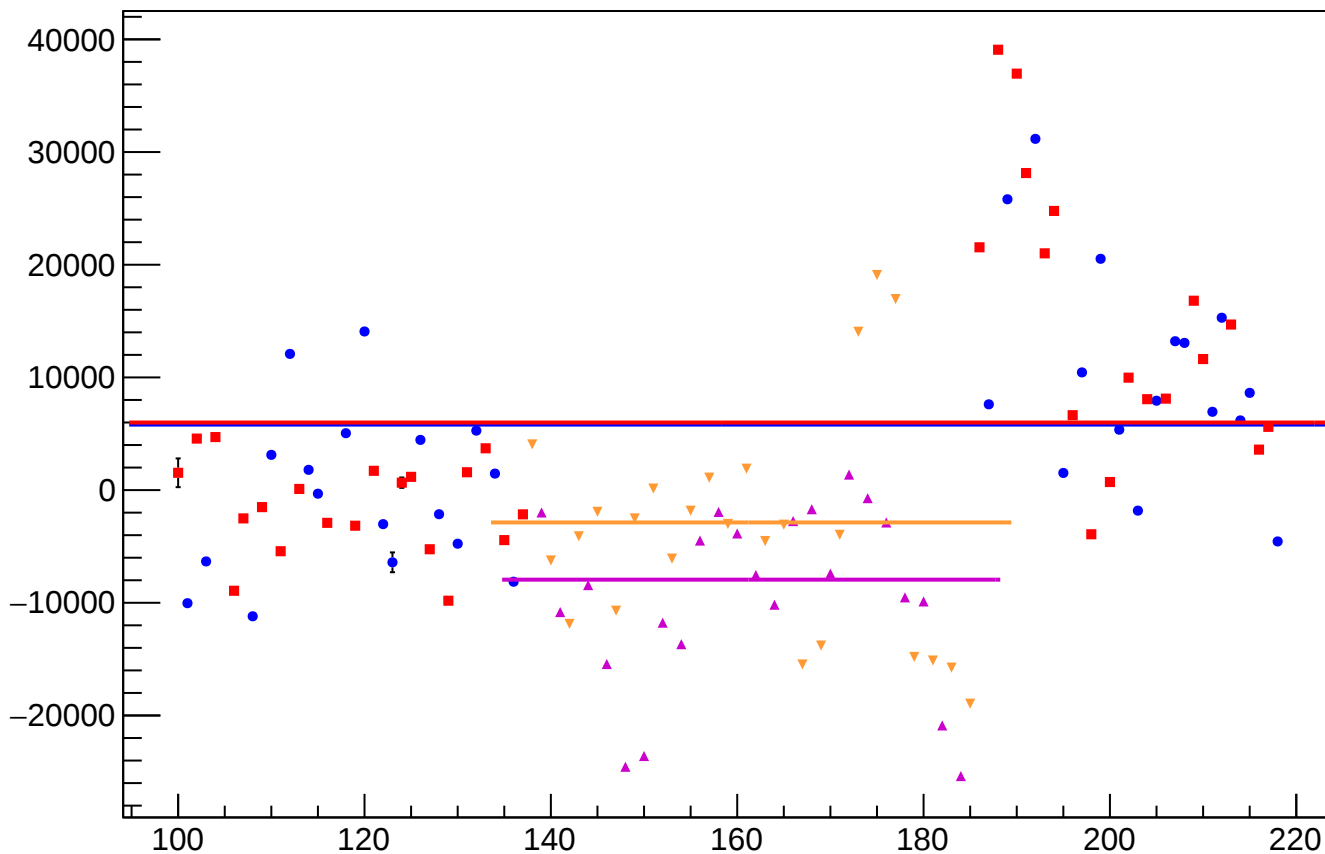
Right: 135.039+/-0.016 χ^2/NDF : 4105220.0/68

In: 140.088+/-0.017 χ^2/NDF : 4661060.6/55

Out: 138.224+/-0.017 χ^2/NDF : 4866282.0/60

All: 139.123+/-0.012 χ^2/NDF : 9533290.6/116

asym_bpm0i01WS_mean vs Slug, Sign Corrected



Right In: 5814.528 $\pm$ 40.146 χ^2/NDF : 65117.1/32

Left Out: -2870.473 $\pm$ 39.482 χ^2/NDF : 46420.3/24

Right Out: 5998.006 $\pm$ 38.808 χ^2/NDF : 99945.2/35

Left In: -7947.160 $\pm$ 41.726 χ^2/NDF : 23874.5/22

Left: -5268.670 $\pm$ 28.678 χ^2/NDF : 78105.0/47

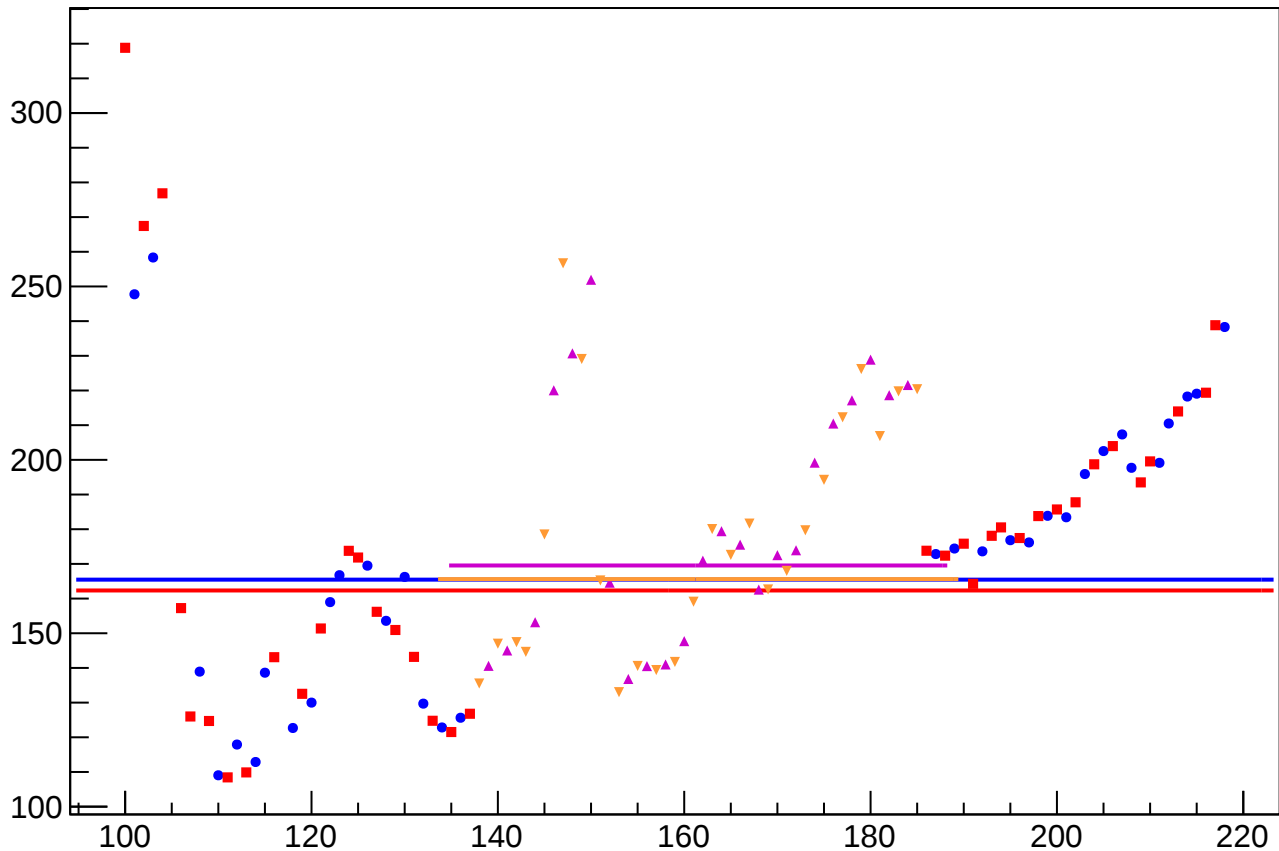
Right: 5909.376 $\pm$ 27.903 χ^2/NDF : 165073.0/68

In: -800.932 $\pm$ 28.930 χ^2/NDF : 145477.6/55

Out: 1640.106 $\pm$ 27.677 χ^2/NDF : 172026.8/60

All: 473.603 $\pm$ 19.999 χ^2/NDF : 321221.7/116

asym_bpm0i01WS_rms vs Slug, Sign Corrected



Right In: 165.460+/-0.028 χ^2/NDF : 1801407.5/32

Left Out: 165.616+/-0.028 χ^2/NDF :1144779.3/24

Right Out: 162.337+/-0.027 χ^2/NDF : 1863180.1/35

Left In: 169.542+/-0.030 χ^2/NDF :1159241.9/22

Left: 167.471+/-0.020 χ^2/NDF : 2313359.6/47

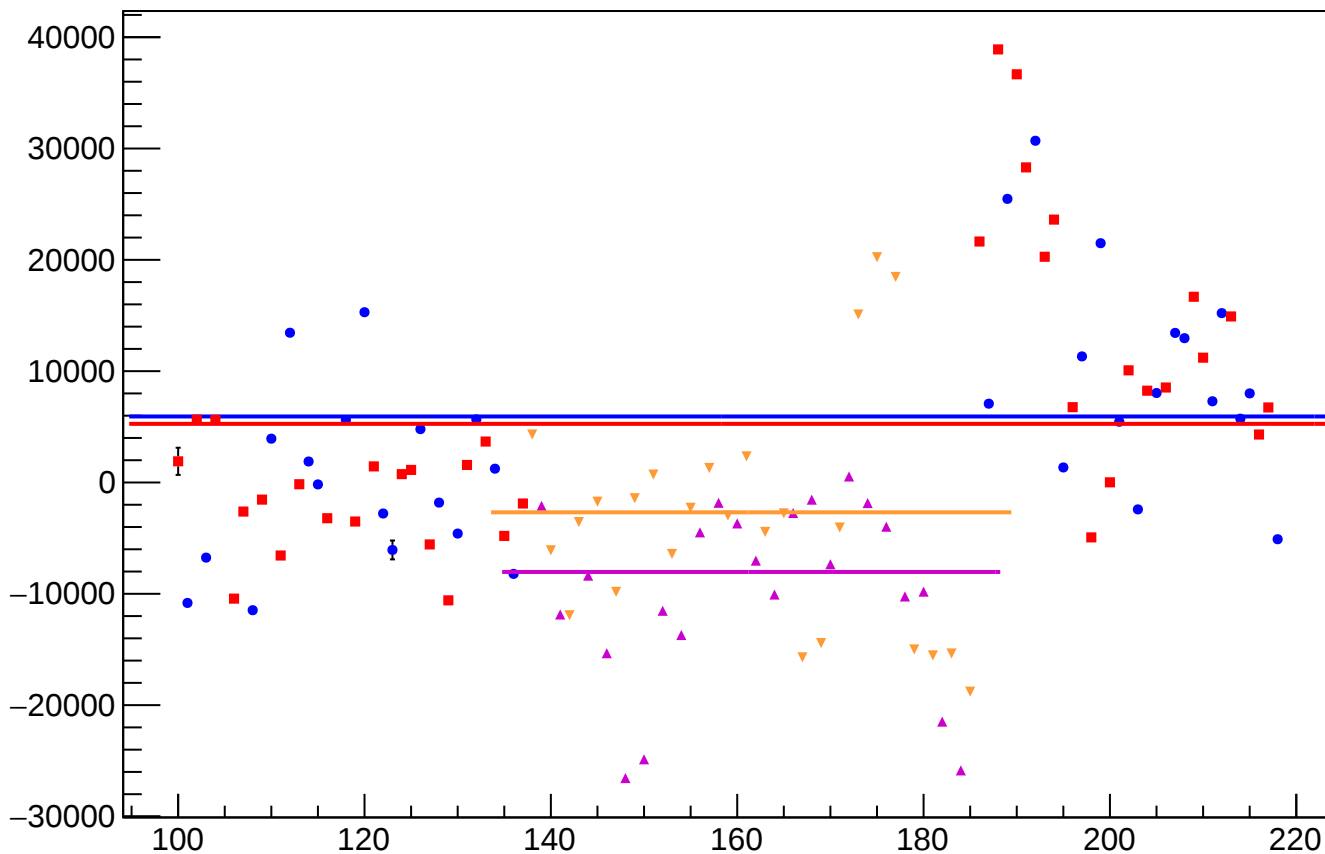
Right: 163.846+/-0.020 χ^2/NDF : 3670844.1/68

In: 167.422+/-0.020 χ^2/NDF :2970587.0/55

Out: 163.948+/-0.020 χ^2/NDF :3014976.9/60

All: 165.608+/-0.014 χ^2/NDF : 6000619.2/116

asym_bpm0i01aWS_mean vs Slug, Sign Corrected



Right In: 5930.405+/-34.087

χ^2/NDF : 91132.6/32

Left: -5201.473+/-26.019

χ^2/NDF : 96642.3/47

Left Out: -2680.012+/-35.764

χ^2/NDF : 56820.4/24

Right: 5585.344+/-23.607

χ^2/NDF : 231088.9/68

Right Out: 5267.311+/-32.725

χ^2/NDF : 139759.3/35

In: -310.979+/-25.352

χ^2/NDF : 195421.5/55

Out: 1645.599+/-24.143

χ^2/NDF : 223457.0/60

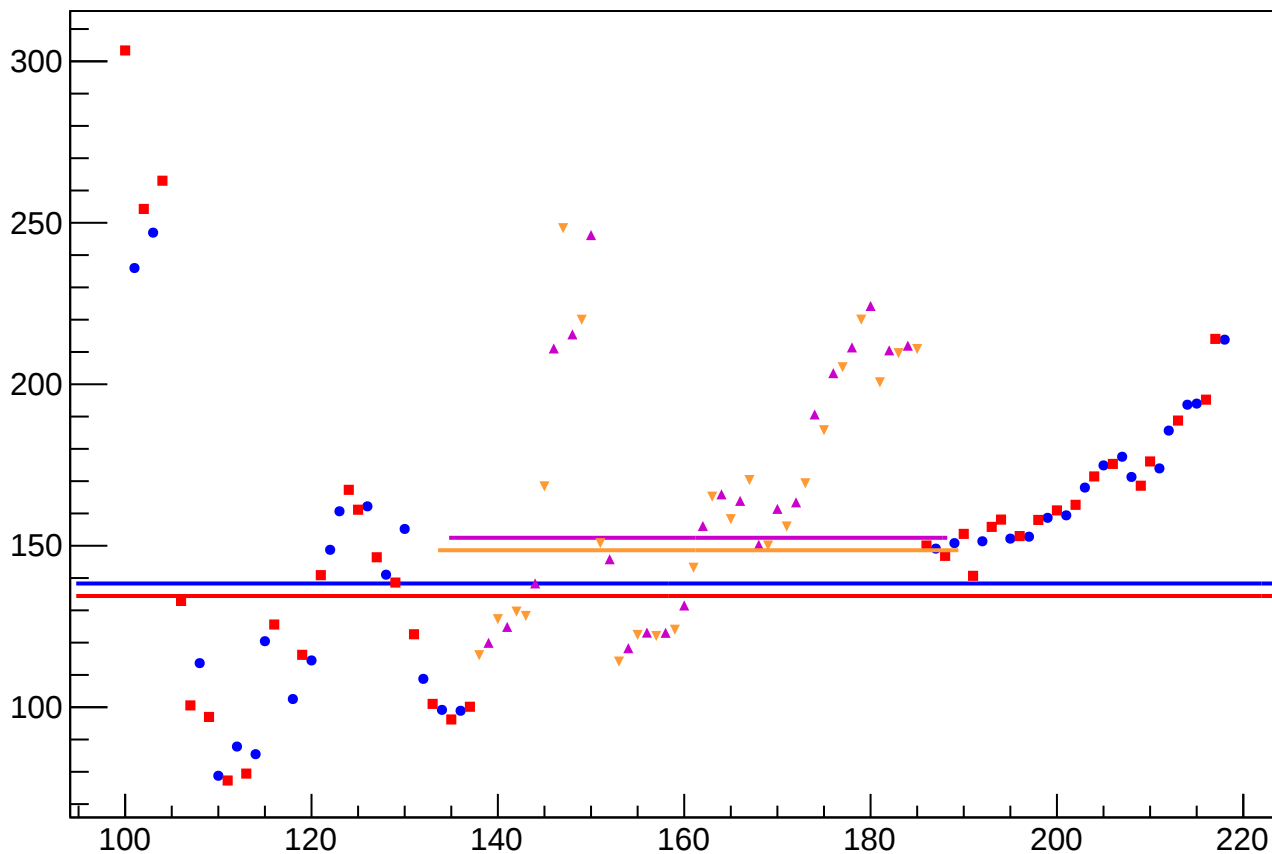
Left In: -8036.826+/-37.924

χ^2/NDF : 29261.6/22

All: 715.064+/-17.483

χ^2/NDF : 422002.1/116

asym_bpm0i01aWS_rms vs Slug, Sign Corrected



Right In: 138.309+/-0.024 χ^2/NDF : 2691691.9/32

Left Out: 148.611+/-0.025 χ^2/NDF :1685424.1/24

Right Out: 134.439+/-0.023 χ^2/NDF : 2907347.2/35

Left In: 152.463+/-0.027 χ^2/NDF :1691517.7/22

Left: 150.424+/-0.018 χ^2/NDF : 3387867.0/47

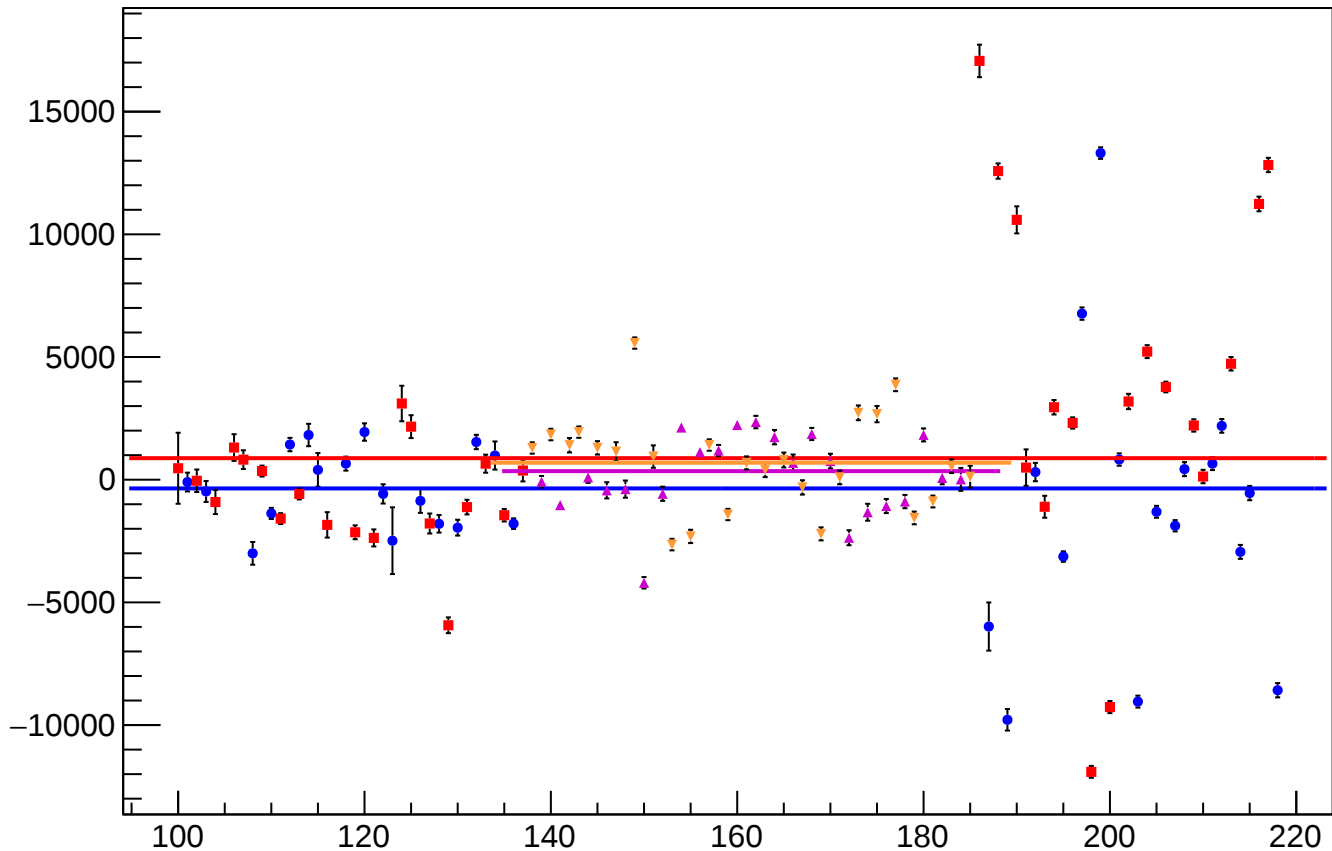
Right: 136.295+/-0.017 χ^2/NDF : 5612448.8/68

In: 144.634+/-0.018 χ^2/NDF :4537320.4/55

Out: 140.898+/-0.017 χ^2/NDF :4763689.7/60

All: 142.674+/-0.012 χ^2/NDF : 9323791.6/116

asym_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: -355.401 ± 53.100 $\chi^2/\text{NDF}: 7486.0/32$

Left Out: 692.998 ± 54.303 $\chi^2/\text{NDF}: 1422.0/24$

Right Out: 877.450 ± 52.458 $\chi^2/\text{NDF}: 11584.1/35$

Left In: 349.623 ± 53.094 $\chi^2/\text{NDF}: 981.0/22$

Left: 517.444 ± 37.963 $\chi^2/\text{NDF}: 2423.4/47$

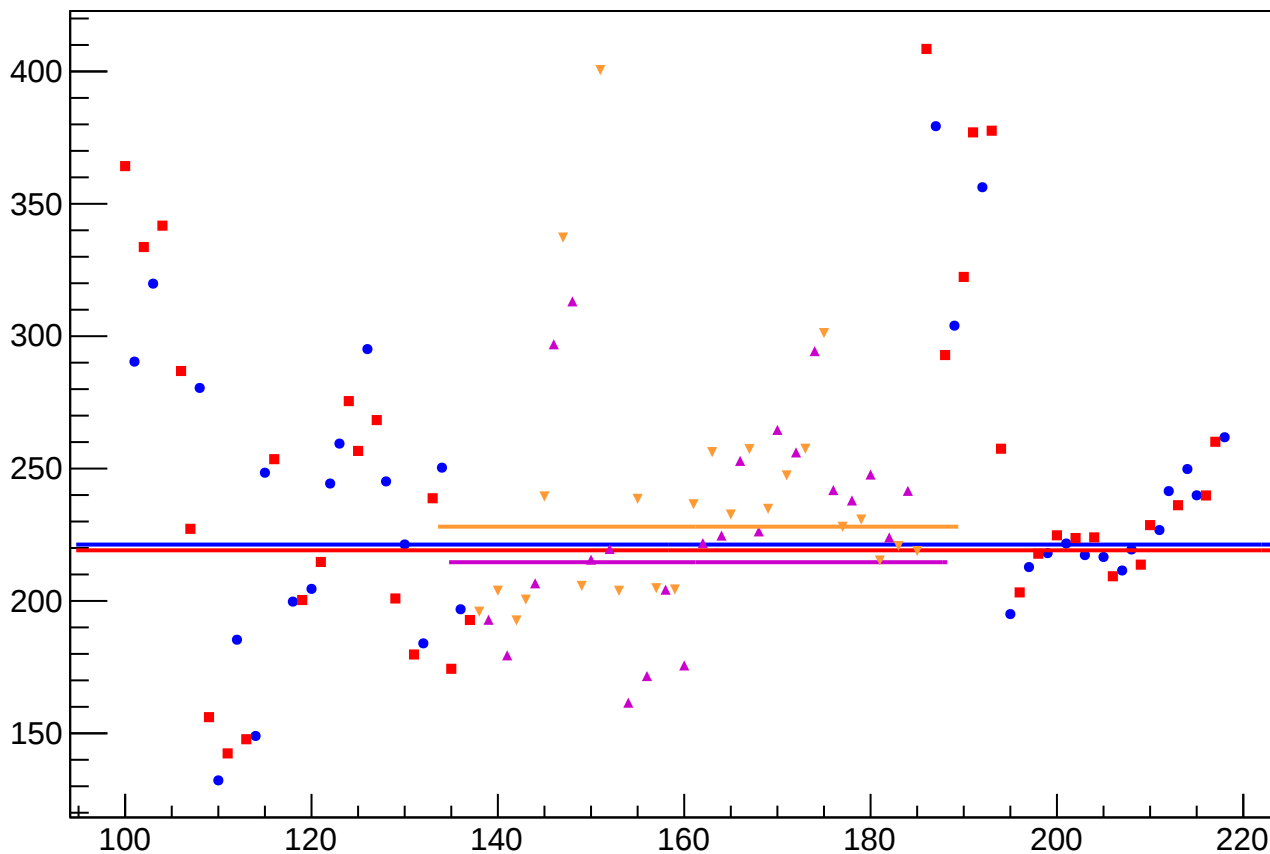
Right: 268.528 ± 37.318 $\chi^2/\text{NDF}: 19342.9/68$

In: -2.846 ± 37.545 $\chi^2/\text{NDF}: 8555.1/55$

Out: 788.412 ± 37.729 $\chi^2/\text{NDF}: 13012.1/60$

All: 390.853 ± 26.613 $\chi^2/\text{NDF}: 21788.2/116$

asym_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 221.293 ± 0.038 $\chi^2/\text{NDF}: 1242291.0/32$

Left Out: 228.061 ± 0.038 $\chi^2/\text{NDF}: 826343.8/24$

Right Out: 219.125 ± 0.037 $\chi^2/\text{NDF}: 1889282.4/35$

Left In: 214.627 ± 0.038 $\chi^2/\text{NDF}: 1025683.3/22$

Left: 221.193 ± 0.027 $\chi^2/\text{NDF}: 1914604.4/47$

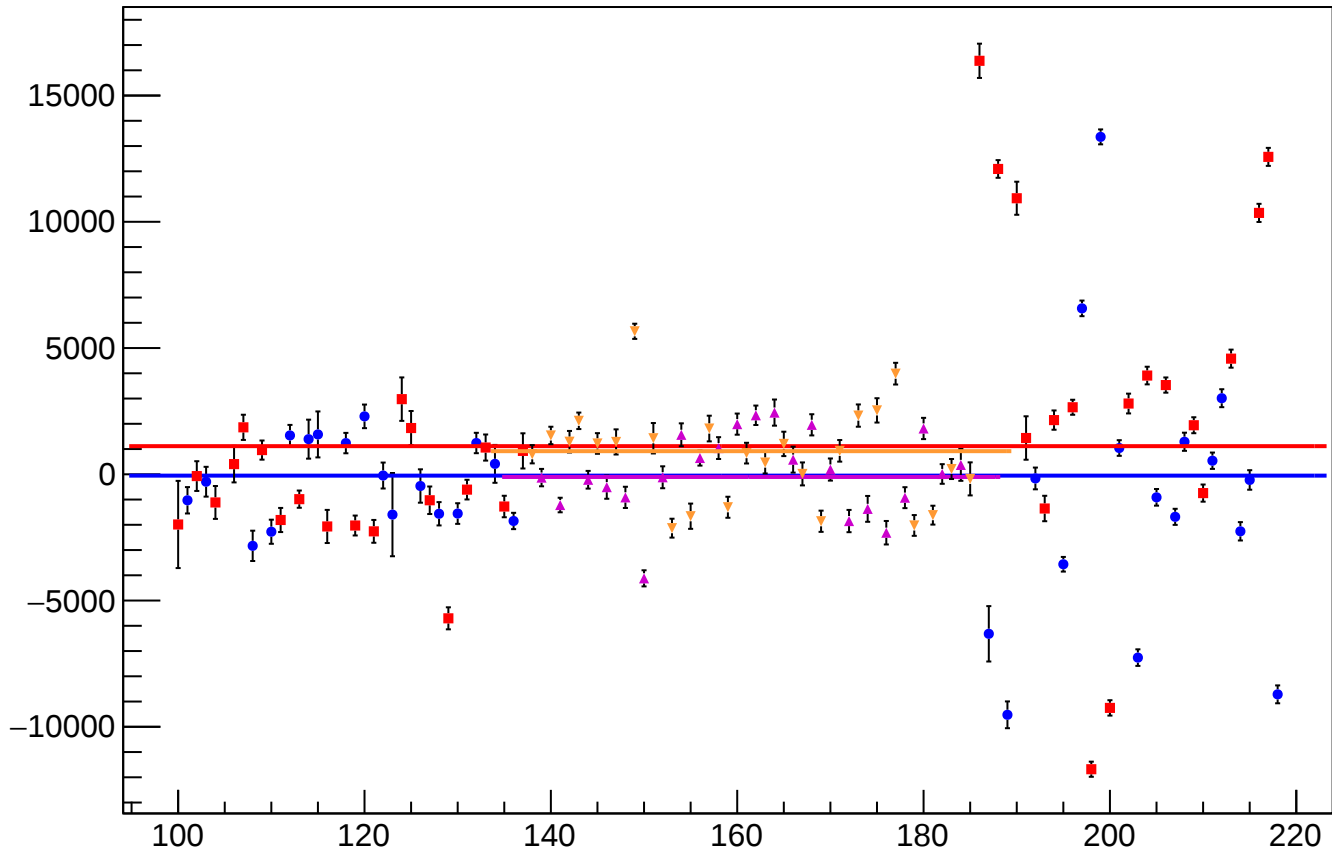
Right: 220.196 ± 0.026 $\chi^2/\text{NDF}: 3133260.8/68$

In: 217.960 ± 0.027 $\chi^2/\text{NDF}: 2283735.1/55$

Out: 223.438 ± 0.027 $\chi^2/\text{NDF}: 2743640.9/60$

All: 220.686 ± 0.019 $\chi^2/\text{NDF}: 5048566.6/116$

asym_bpm0l02WS_mean vs Slug, Sign Corrected



Right In: -52.997 ± 71.170 $\chi^2/\text{NDF}: 4438.3/32$

Left Out: 915.968 ± 83.398 $\chi^2/\text{NDF}: 618.3/24$

Right Out: 1114.400 ± 70.530 $\chi^2/\text{NDF}: 7280.3/35$

Left In: -106.116 ± 84.393 $\chi^2/\text{NDF}: 390.3/22$

Left: 410.985 ± 59.320 $\chi^2/\text{NDF}: 1082.8/47$

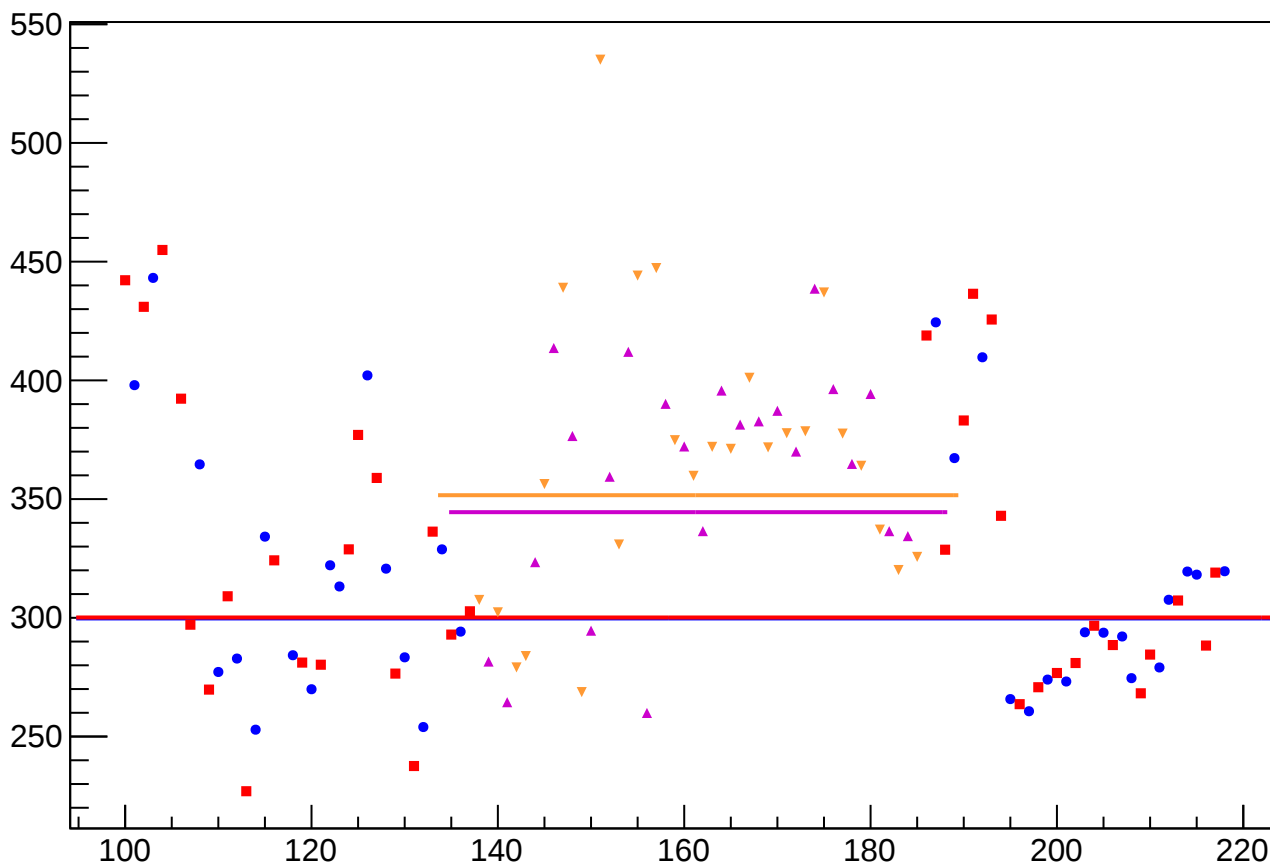
Right: 535.975 ± 50.097 $\chi^2/\text{NDF}: 11854.3/68$

In: -75.074 ± 54.406 $\chi^2/\text{NDF}: 4828.8/55$

Out: 1031.657 ± 53.854 $\chi^2/\text{NDF}: 7901.9/60$

All: 483.941 ± 38.274 $\chi^2/\text{NDF}: 12939.7/116$

asym_bpm0l02WS_rms vs Slug, Sign Corrected



Right In: 299.735 $\pm$ 0.050 χ^2 /NDF: 645715.6/32

Left Out: 351.633 $\pm$ 0.059 χ^2 /NDF: 907849.3/24

Right Out: 300.138 $\pm$ 0.050 χ^2 /NDF: 902100.8/35

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

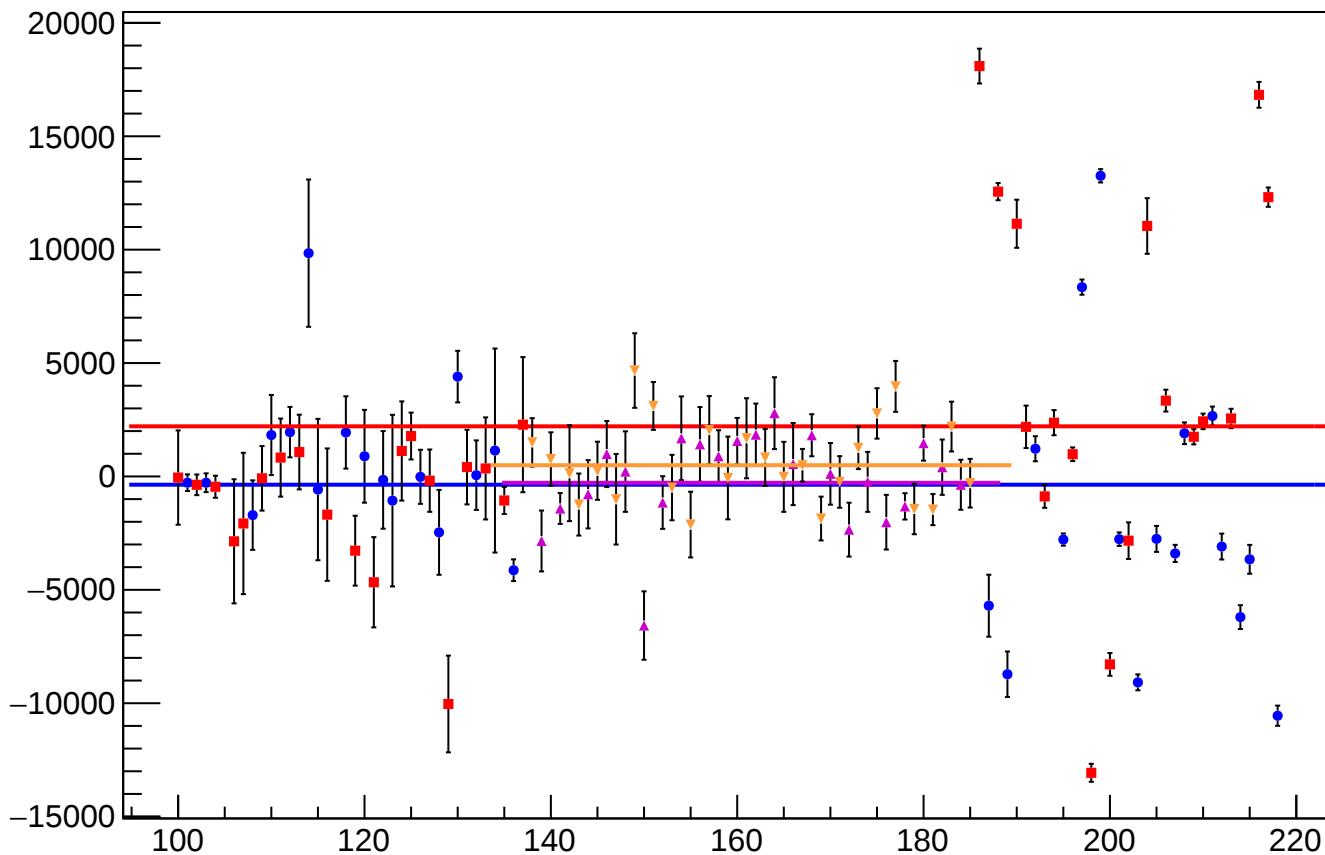
Right: 299.938 $\pm$ 0.035 χ^2 /NDF: 1547848.7/68

In: 318.336 $\pm$ 0.038 χ^2 /NDF: 1743312.3/55

Out: 321.610 $\pm$ 0.038 χ^2 /NDF: 2254512.8/60

All: 319.990 $\pm$ 0.027 χ^2 /NDF: 4001483.7/116

asym_bpm0l03WS_mean vs Slug, Sign Corrected



Right In: -364.404 $\pm$ 92.987 χ^2 /NDF: 4635.4/32

Left Out: 495.014 $\pm$ 231.058 χ^2 /NDF: 56.2/24

Right Out: 2209.653 $\pm$ 103.079 χ^2 /NDF: 4716.1/35

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

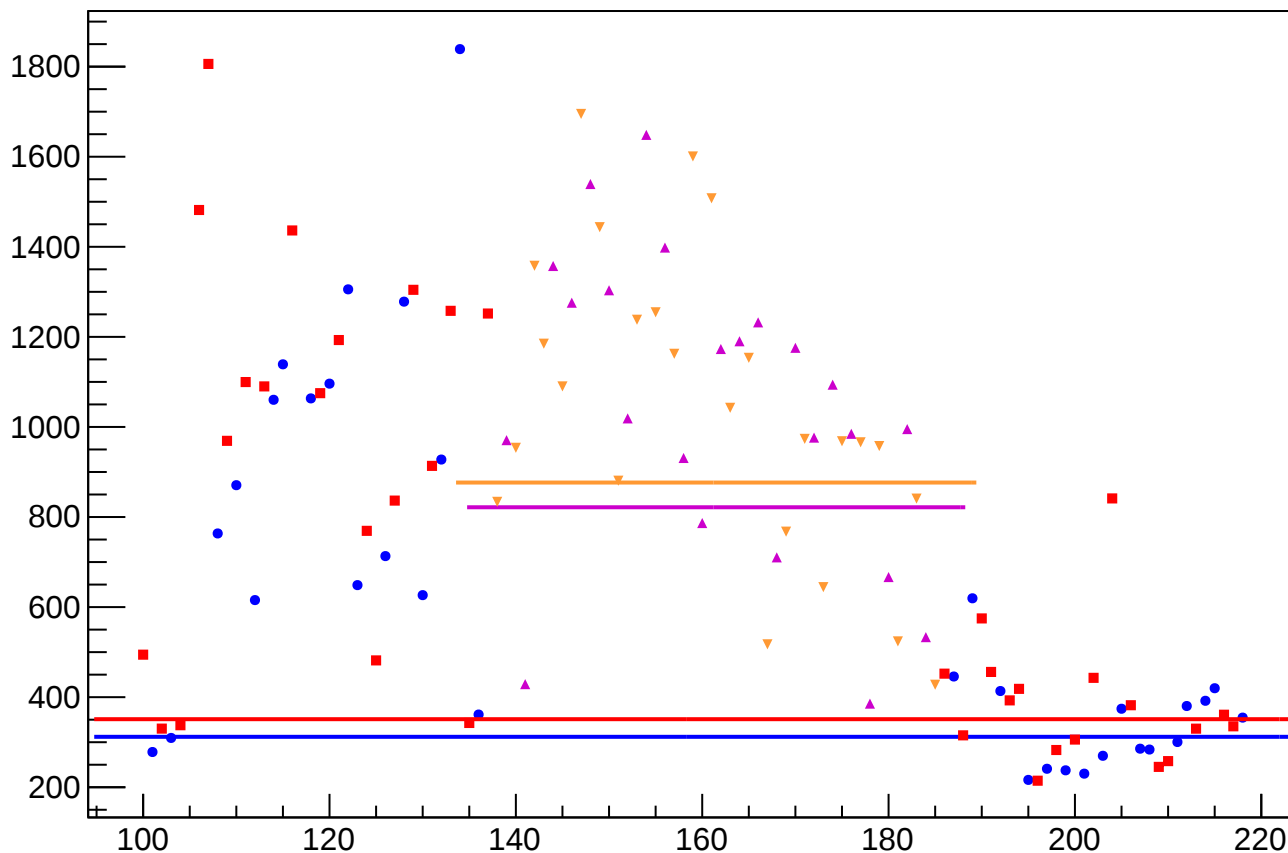
Right: 790.492 $\pm$ 69.045 χ^2 /NDF: 9695.3/68

In: -352.822 $\pm$ 86.315 χ^2 /NDF: 4692.7/55

Out: 1925.050 $\pm$ 94.136 χ^2 /NDF: 4818.3/60

All: 687.574 $\pm$ 63.619 χ^2 /NDF: 9829.1/116

asym_bpm0l03WS_rms vs Slug, Sign Corrected



Right In: 311.988+/-0.066 χ^2/NDF : 4576110.7/32

Left Out: 876.560+/-0.163 χ^2/NDF : 3434698.7/24

Right Out: 351.121+/-0.073 χ^2/NDF : 5926264.6/35

Left In: 821.657+/-0.164 χ^2/NDF : 4443094.2/22

Left: 849.226+/-0.116 χ^2/NDF : 7934012.4/47

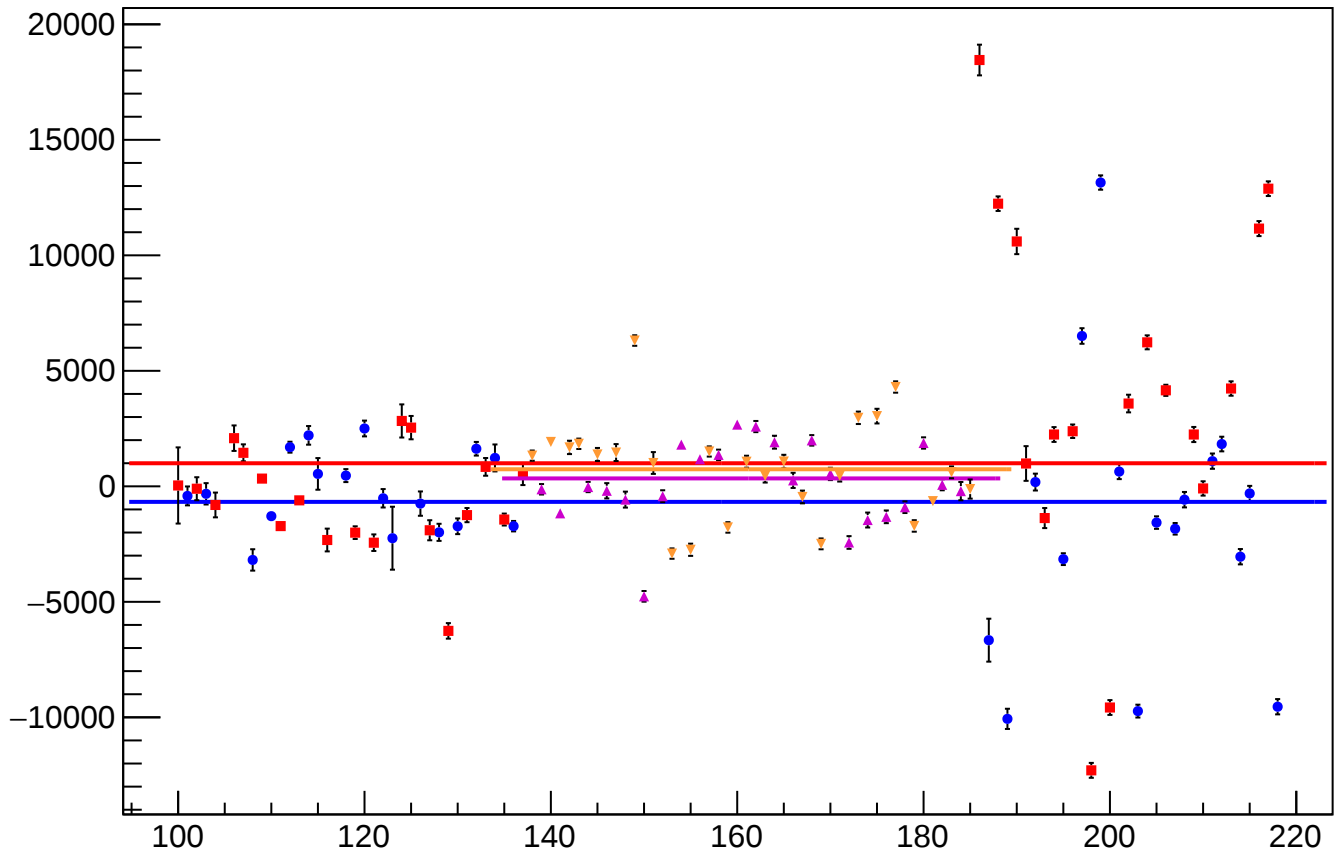
Right: 329.546+/-0.049 χ^2/NDF : 10661303.5/68

In: 382.507+/-0.061 χ^2/NDF : 17332584.9/55

Out: 438.336+/-0.067 χ^2/NDF : 17986890.3/60

All: 408.006+/-0.045 χ^2/NDF : 35701635.9/11

asym_bpm0l04WS_mean vs Slug, Sign Corrected



Right In: -672.819 ± 57.504 $\chi^2/\text{NDF}: 5418.2/32$

Left Out: 738.847 ± 51.649 $\chi^2/\text{NDF}: 1935.2/24$

Right Out: 998.872 ± 55.461 $\chi^2/\text{NDF}: 9355.8/35$

Left In: 342.465 ± 50.044 $\chi^2/\text{NDF}: 1254.9/22$

Left: 534.403 ± 35.941 $\chi^2/\text{NDF}: 3220.5/47$

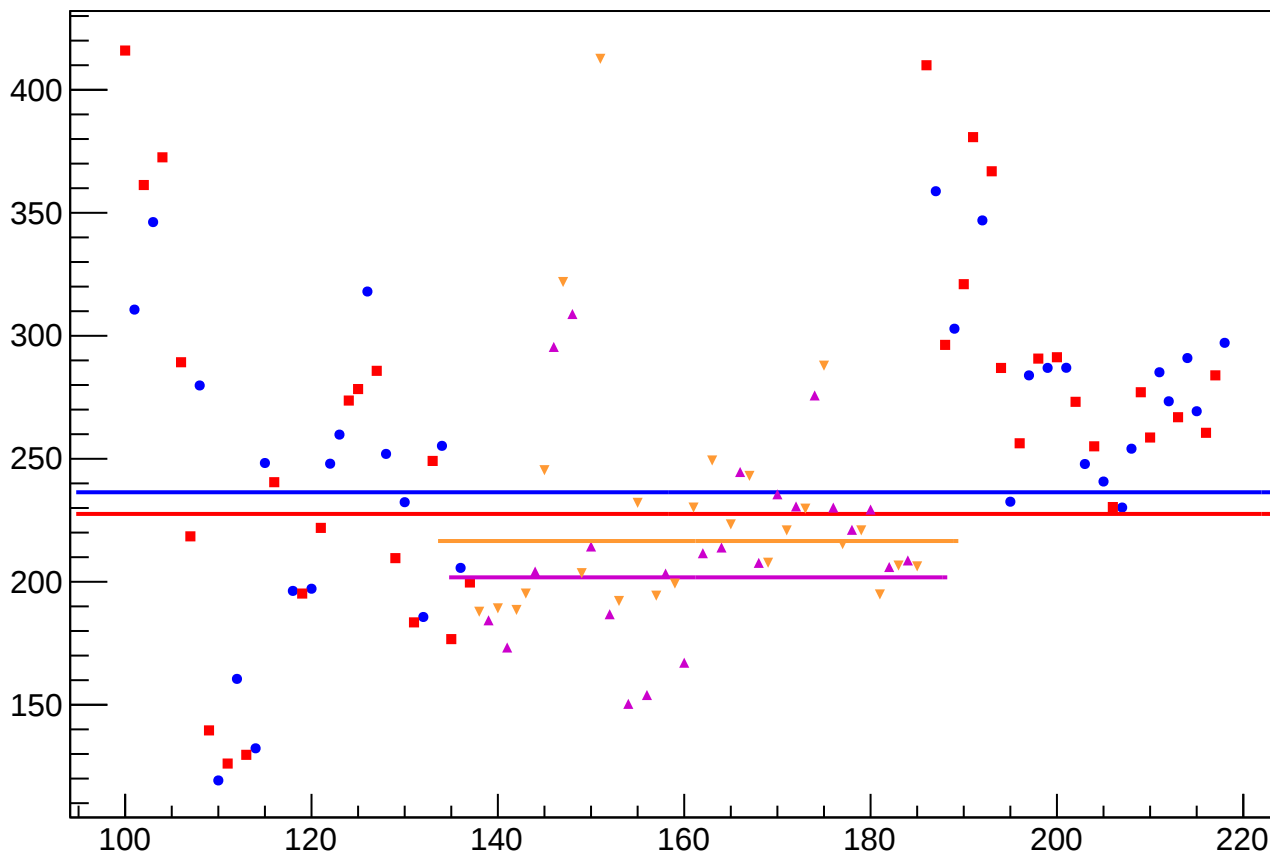
Right: 193.248 ± 39.919 $\chi^2/\text{NDF}: 15211.8/68$

In: -95.097 ± 37.750 $\chi^2/\text{NDF}: 6850.5/55$

Out: 859.618 ± 37.797 $\chi^2/\text{NDF}: 11302.8/60$

All: 381.669 ± 26.710 $\chi^2/\text{NDF}: 18472.6/116$

asym_bpm0l04WS_rms vs Slug, Sign Corrected



Right In: 236.394 ± 0.041 χ^2/NDF : 2036456.1/32

Left Out: 216.574 ± 0.037 χ^2/NDF : 886214.1/24

Right Out: 227.587 ± 0.039 χ^2/NDF : 3047924.9/35

Left In: 201.805 ± 0.035 χ^2/NDF : 1087243.4/22

Left: 208.957 ± 0.025 χ^2/NDF : 2057801.5/47

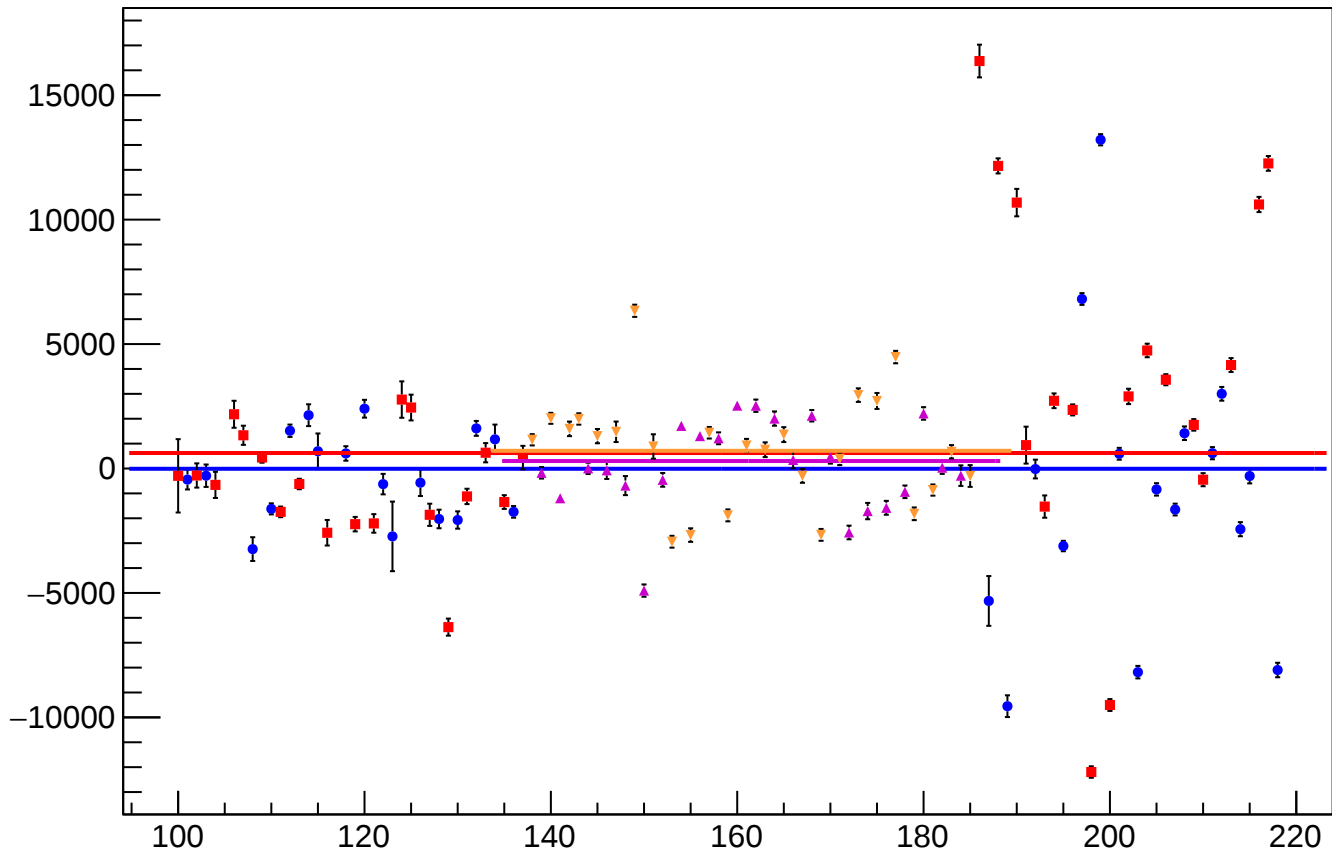
Right: 231.832 ± 0.028 χ^2/NDF : 5108686.9/68

In: 216.712 ± 0.027 χ^2/NDF : 3535463.1/55

Out: 221.689 ± 0.027 χ^2/NDF : 3976373.5/60

All: 219.198 ± 0.019 χ^2/NDF : 7529195.9/116

asym_bpm0l05WS_mean vs Slug, Sign Corrected



Right In: -11.059 ± 53.007 $\chi^2/\text{NDF}: 7479.0/32$

Left Out: 711.174 ± 53.245 $\chi^2/\text{NDF}: 1835.3/24$

Right Out: 622.818 ± 52.279 $\chi^2/\text{NDF}: 11537.0/35$

Left In: 300.516 ± 51.984 $\chi^2/\text{NDF}: 1208.6/22$

Left: 500.925 ± 37.196 $\chi^2/\text{NDF}: 3074.4/47$

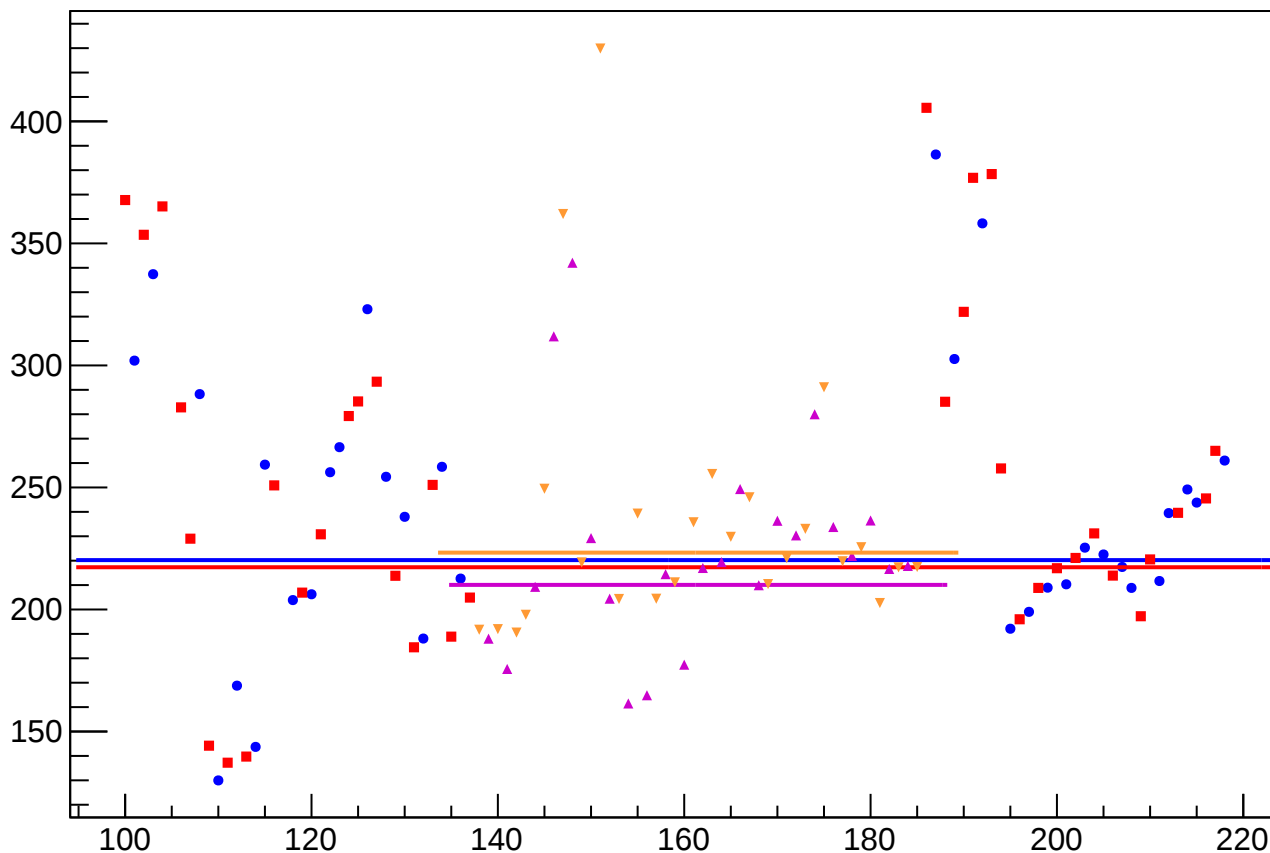
Right: 310.260 ± 37.222 $\chi^2/\text{NDF}: 19088.5/68$

In: 147.765 ± 37.115 $\chi^2/\text{NDF}: 8705.2/55$

Out: 666.188 ± 37.304 $\chi^2/\text{NDF}: 13373.7/60$

All: 405.658 ± 26.311 $\chi^2/\text{NDF}: 22176.0/116$

asym_bpm0l05WS_rms vs Slug, Sign Corrected



Right In: 220.233 ± 0.037 $\chi^2/\text{NDF}: 1441933.6/32$

Left Out: 223.296 ± 0.038 $\chi^2/\text{NDF}: 922768.4/24$

Right Out: 217.308 ± 0.037 $\chi^2/\text{NDF}: 2194486.6/35$

Left In: 210.080 ± 0.037 $\chi^2/\text{NDF}: 1015274.5/22$

Left: 216.530 ± 0.026 $\chi^2/\text{NDF}: 2001132.1/47$

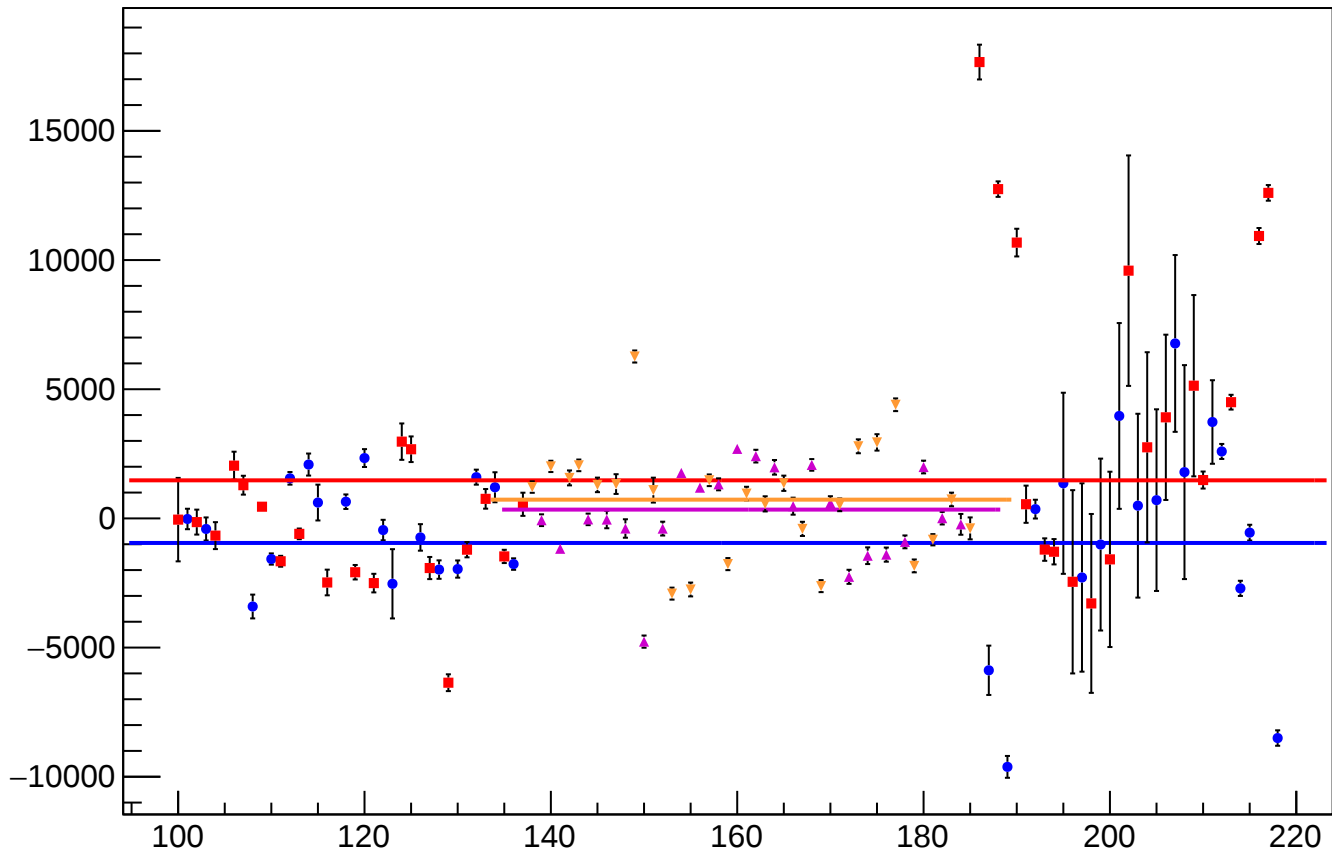
Right: 218.750 ± 0.026 $\chi^2/\text{NDF}: 3639506.7/68$

In: 215.057 ± 0.026 $\chi^2/\text{NDF}: 2494610.7/55$

Out: 220.247 ± 0.026 $\chi^2/\text{NDF}: 3130134.7/60$

All: 217.639 ± 0.019 $\chi^2/\text{NDF}: 5644200.3/116$

asym_bpm0l06WS_mean vs Slug, Sign Corrected



Right In: -950.232 $\pm$ 69.711 χ^2/NDF : 1750.9/32

Left Out: 725.866 $\pm$ 52.158 χ^2/NDF : 1912.7/24

Right Out: 1473.433 $\pm$ 63.627 χ^2/NDF : 6354.3/35

Left In: 340.502 $\pm$ 50.802 χ^2/NDF : 1201.8/22

Left: 528.110 $\pm$ 36.393 χ^2/NDF : 3142.6/47

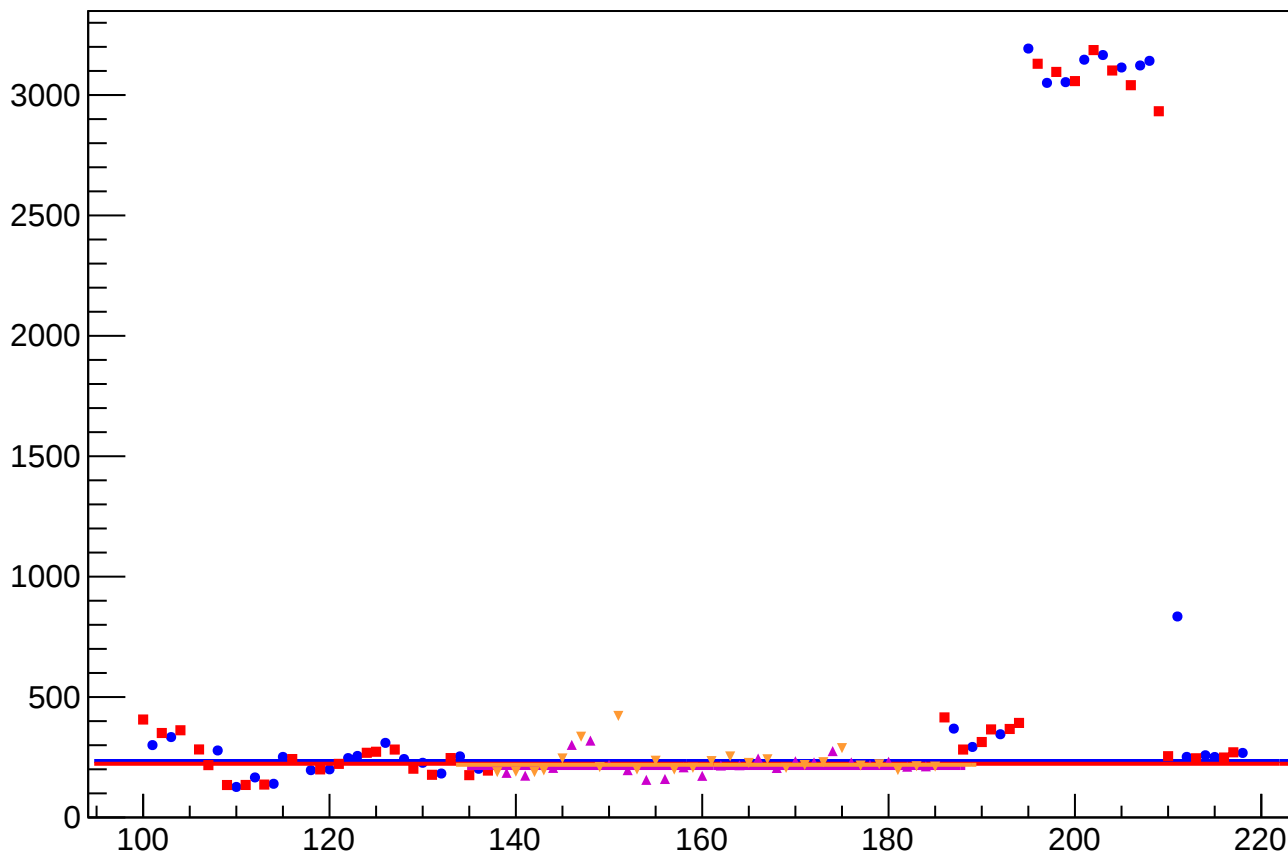
Right: 371.954 $\pm$ 46.995 χ^2/NDF : 8764.6/68

In: -107.214 $\pm$ 41.057 χ^2/NDF : 3176.7/55

Out: 1026.321 $\pm$ 40.337 χ^2/NDF : 8349.6/60

All: 469.571 $\pm$ 28.774 χ^2/NDF : 11914.1/116

asym_bpm0l06WS_rms vs Slug, Sign Corrected



Right In: 234.446 $\pm$ 0.049 χ^2 /NDF: 12199261.0/32

Left Out: 218.768 $\pm$ 0.037 χ^2 /NDF: 896914.5/24

Right Out: 222.945 $\pm$ 0.045 χ^2 /NDF: 11564304.9/35

Left In: 205.249 $\pm$ 0.036 χ^2 /NDF: 997168.8/22

Left: 211.831 $\pm$ 0.026 χ^2 /NDF: 1963037.5/47

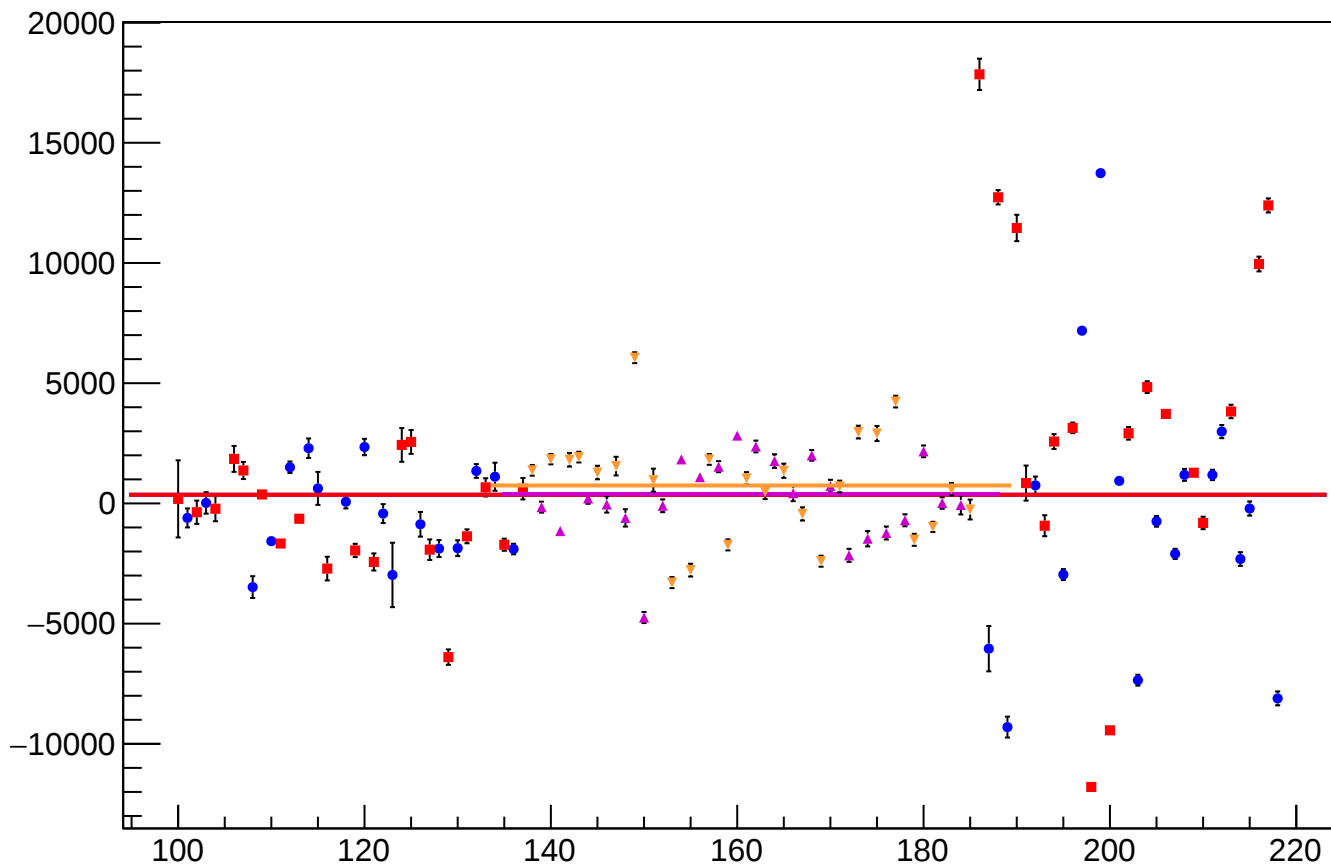
Right: 228.172 $\pm$ 0.033 χ^2 /NDF: 23793264.4/68

In: 215.377 $\pm$ 0.029 χ^2 /NDF: 13425579.1/55

Out: 220.447 $\pm$ 0.029 χ^2 /NDF: 12466374.1/60

All: 217.957 $\pm$ 0.020 χ^2 /NDF: 25907474.7/11

asym_bpm0l07WS_mean vs Slug, Sign Corrected



Right In: 361.086+/-49.644 χ^2/NDF : 9527.6/32

Left Out: 746.405+/-51.592 χ^2/NDF :1942.1/24

Right Out: 358.671+/-49.109 χ^2/NDF : 13397.4/35

Left In: 394.379+/-50.311 χ^2/NDF :1236.4/22

Left: 565.969+/-36.020 χ^2/NDF : 3202.4/47

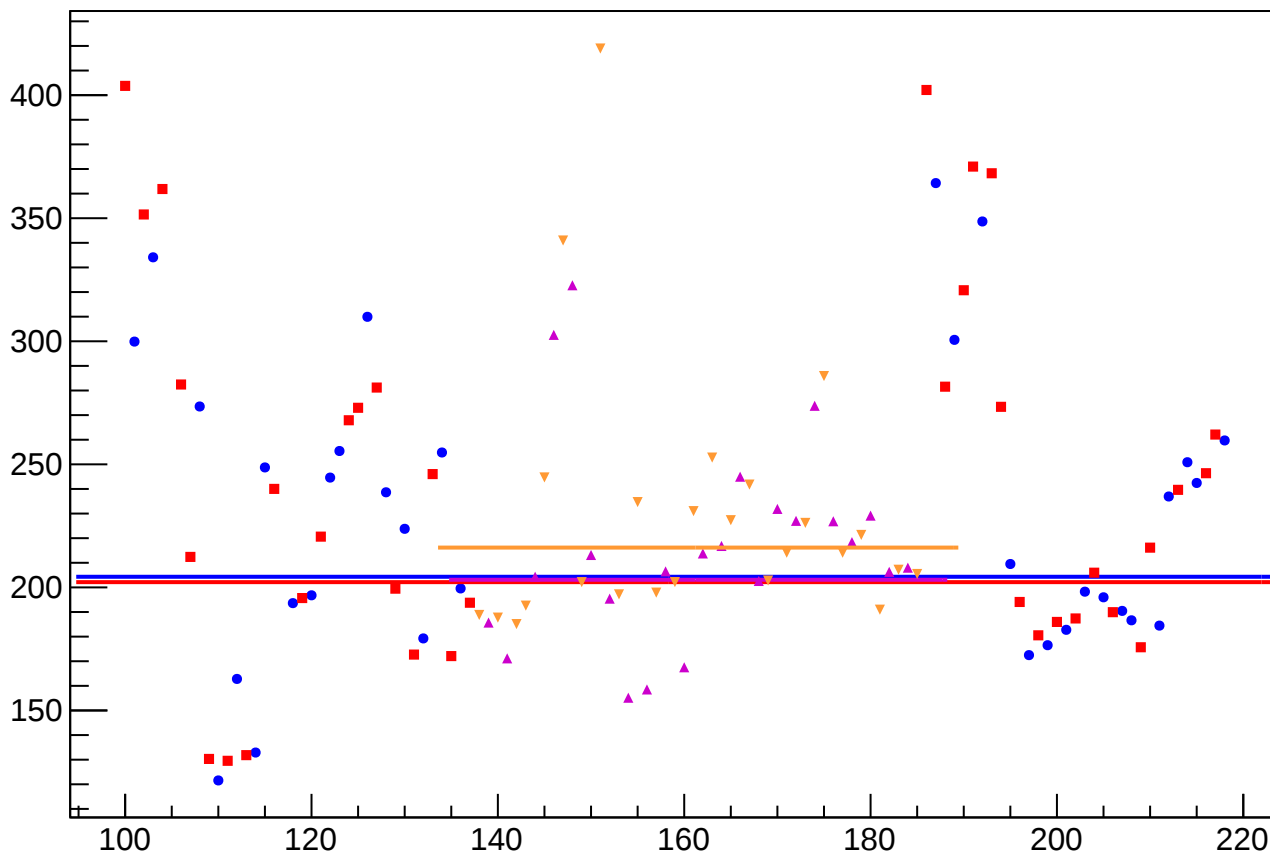
Right: 359.865+/-34.913 χ^2/NDF : 22924.9/68

In: 377.510+/-35.337 χ^2/NDF :10764.2/55

Out: 542.986+/-35.571 χ^2/NDF :15369.1/60

All: 459.703+/-25.069 χ^2/NDF : 26144.2/116

asym_bpm0l07WS_rms vs Slug, Sign Corrected



Right In: 204.320+/-0.035 χ^2/NDF : 1751339.8/32

Left Out: 216.178+/-0.036 χ^2/NDF : 946050.8/24

Right Out: 202.137+/-0.035 χ^2/NDF : 2649831.4/35

Left In: 203.101+/-0.036 χ^2/NDF : 1038013.0/22

Left: 209.475+/-0.025 χ^2/NDF : 2049926.5/47

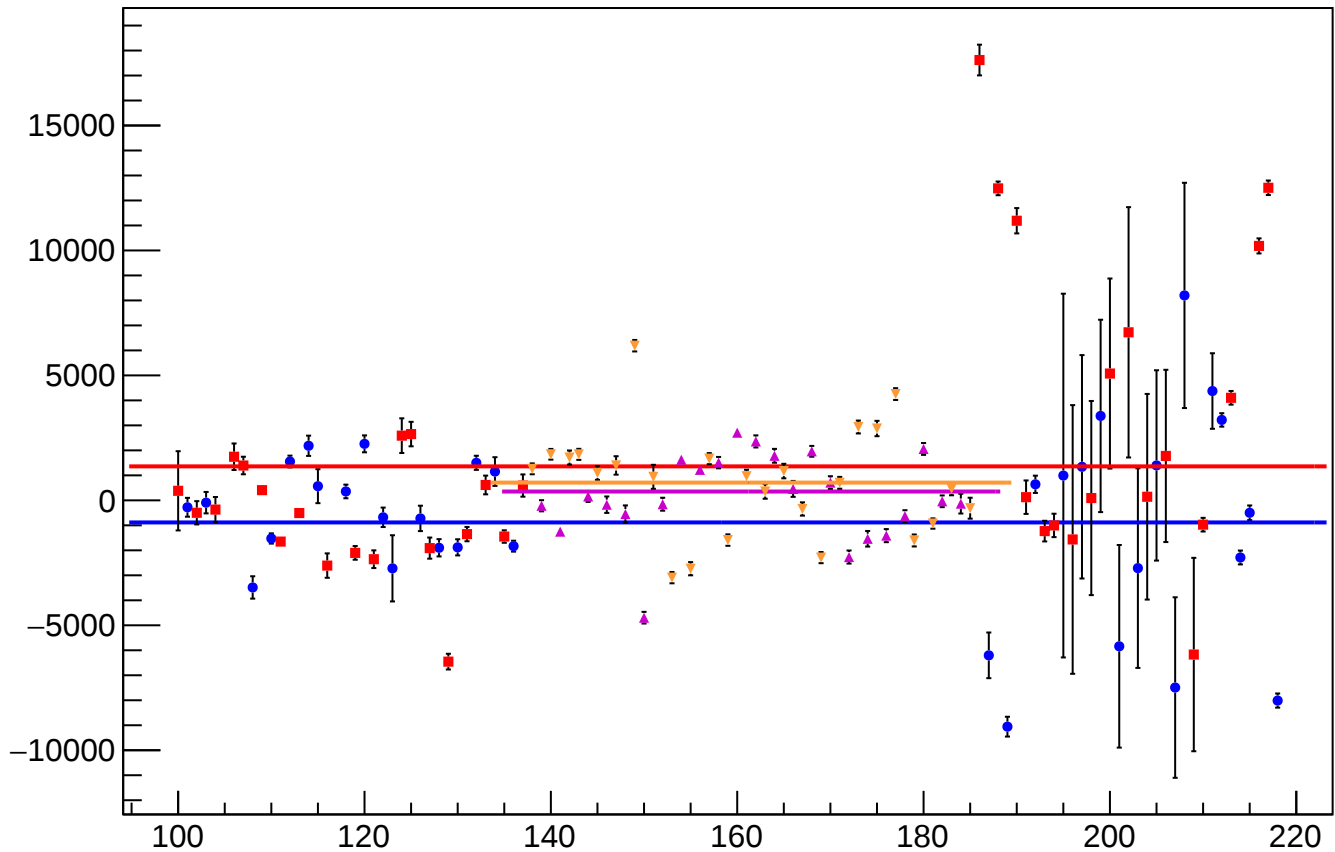
Right: 203.217+/-0.025 χ^2/NDF : 4403125.2/68

In: 203.719+/-0.025 χ^2/NDF : 2789948.0/55

Out: 208.812+/-0.025 χ^2/NDF : 3673594.1/60

All: 206.248+/-0.018 χ^2/NDF : 6484179.0/116

asym_bpm0l08WS_mean vs Slug, Sign Corrected



Right In: -883.802 ± 67.036 $\chi^2/\text{NDF}: 1841.6/32$

Left Out: 710.238 ± 50.750 $\chi^2/\text{NDF}: 1932.3/24$

Right Out: 1359.663 ± 60.678 $\chi^2/\text{NDF}: 6915.2/35$

Left In: 352.432 ± 49.316 $\chi^2/\text{NDF}: 1233.1/22$

Left: 526.207 ± 35.368 $\chi^2/\text{NDF}: 3190.9/47$

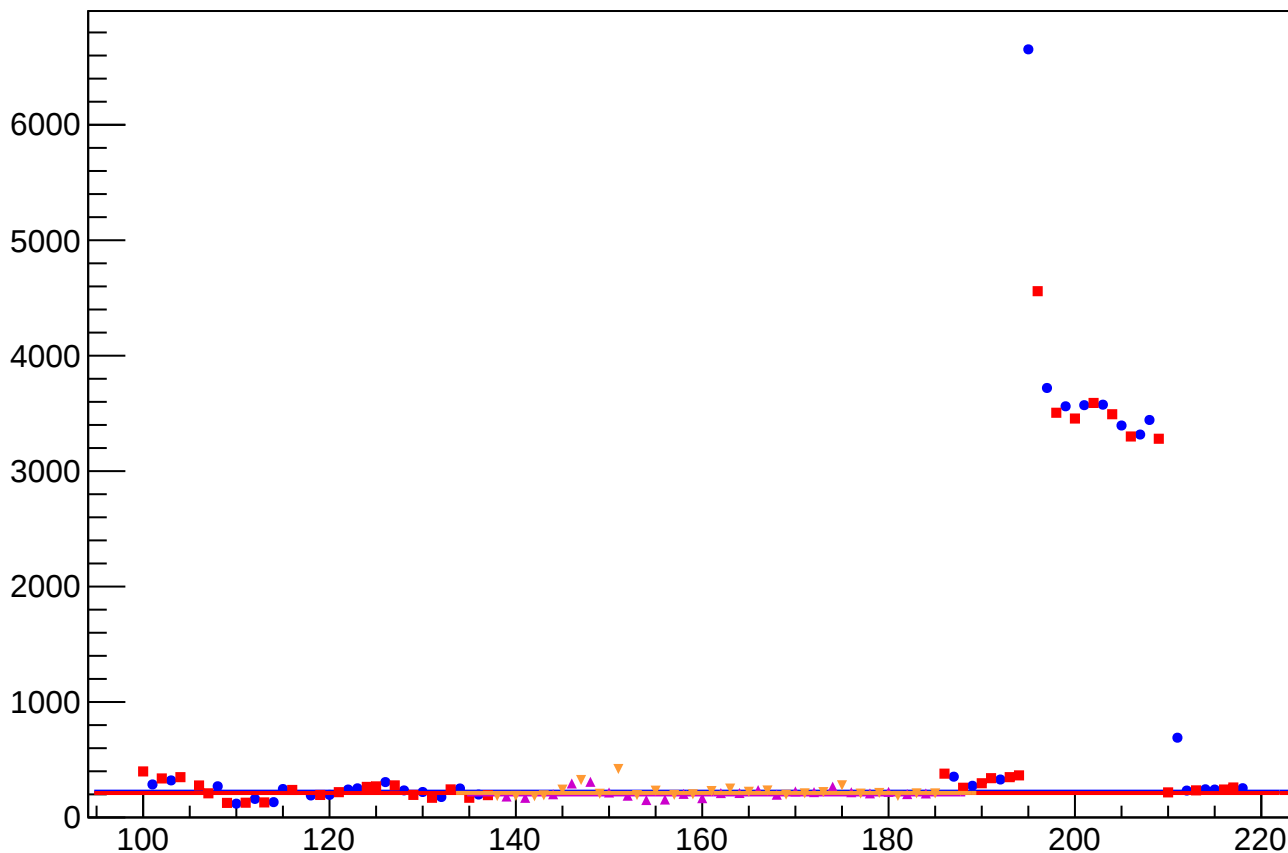
Right: 349.332 ± 44.986 $\chi^2/\text{NDF}: 9372.5/68$

In: -81.683 ± 39.724 $\chi^2/\text{NDF}: 3295.3/55$

Out: 977.546 ± 38.929 $\chi^2/\text{NDF}: 8914.9/60$

All: 458.642 ± 27.804 $\chi^2/\text{NDF}: 12572.9/116$

asym_bpm0l08WS_rms vs Slug, Sign Corrected



Right In: 223.578+/-0.047 χ^2/NDF : 12554739.5/32

Left Out: 212.718+/-0.036 χ^2/NDF : 916225.9/24

Right Out: 211.546+/-0.043 χ^2/NDF : 11811589.0/35

Left In: 199.142+/-0.035 χ^2/NDF : 985932.4/22

Left: 205.736+/-0.025 χ^2/NDF : 1975772.3/47

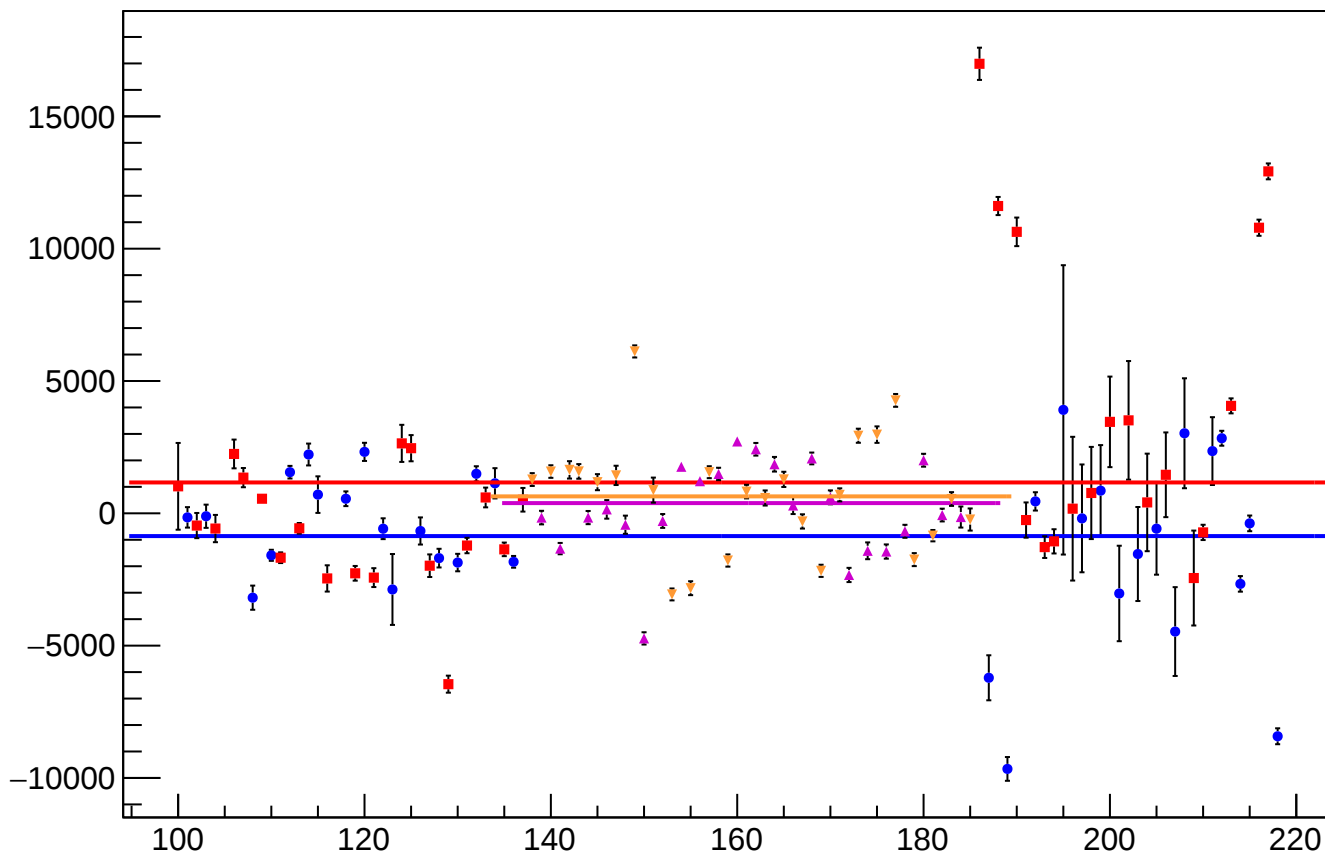
Right: 216.965+/-0.032 χ^2/NDF : 24401741.6/68

In: 207.723+/-0.028 χ^2/NDF : 13713104.2/55

Out: 212.236+/-0.028 χ^2/NDF : 12728254.0/60

All: 210.025+/-0.020 χ^2/NDF : 26454526.0/11

asym_bpm0l09WS_mean vs Slug, Sign Corrected



Right In: -860.385+/-68.327 χ^2/NDF : 1736.3/32

Left Out: 639.995+/-52.708 χ^2/NDF :1859.2/24

Right Out: 1166.278+/-62.298 χ^2/NDF : 6068.9/35

Left In: 386.248+/-50.994 χ^2/NDF :1238.0/22

Left: 508.926+/-36.649 χ^2/NDF : 3109.2/47

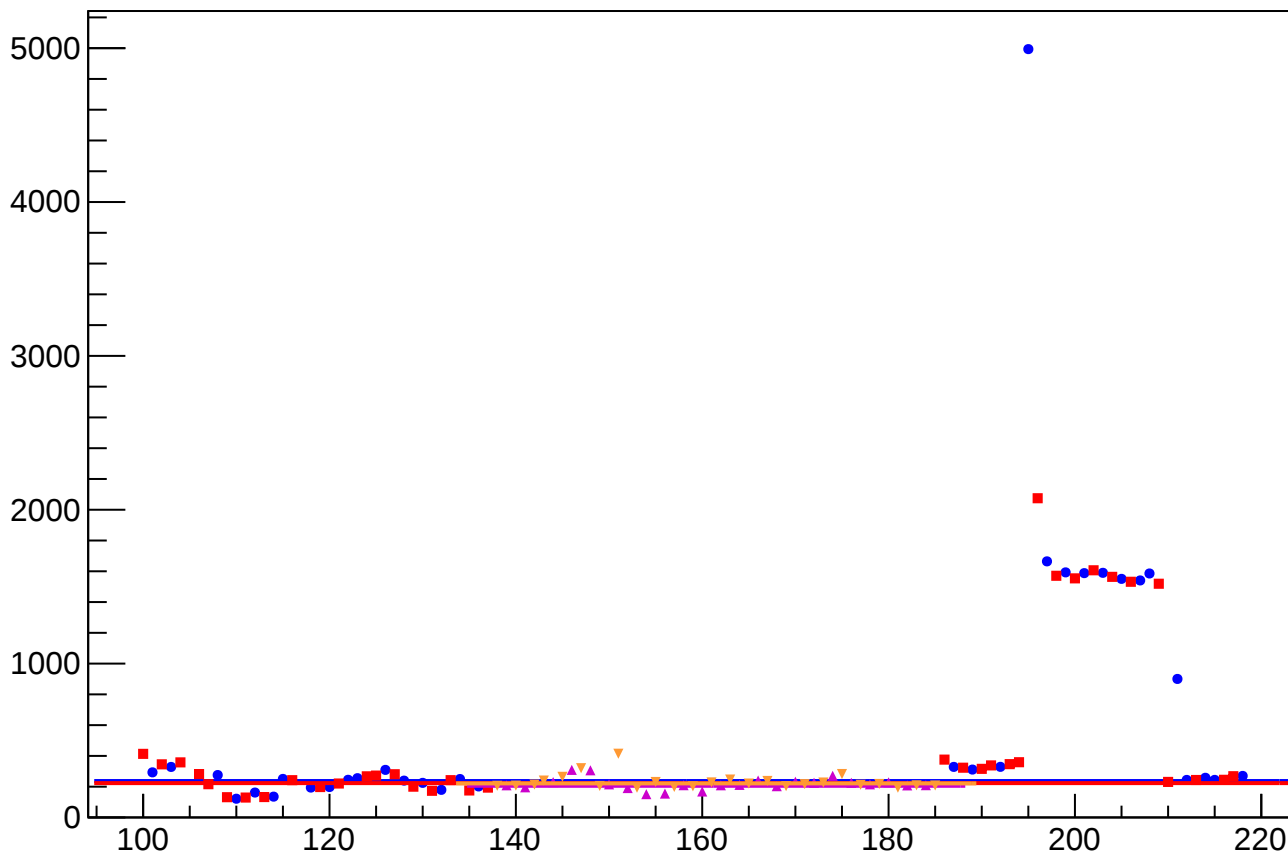
Right: 246.285+/-46.036 χ^2/NDF : 8285.6/68

In: -59.715+/-40.867 χ^2/NDF :3188.1/55

Out: 859.555+/-40.239 χ^2/NDF :7969.7/60

All: 407.042+/-28.673 χ^2/NDF : 11414.8/116

asym_bpm0l09WS_rms vs Slug, Sign Corrected



Right In: 236.688+/-0.048 χ^2/NDF : 11320975.8/32

Left Out: 221.398+/-0.037 χ^2/NDF : 777833.8/24

Right Out: 223.192+/-0.044 χ^2/NDF : 10234808.1/35

Left In: 205.803+/-0.036 χ^2/NDF : 994903.5/22

Left: 213.343+/-0.026 χ^2/NDF : 1863169.5/47

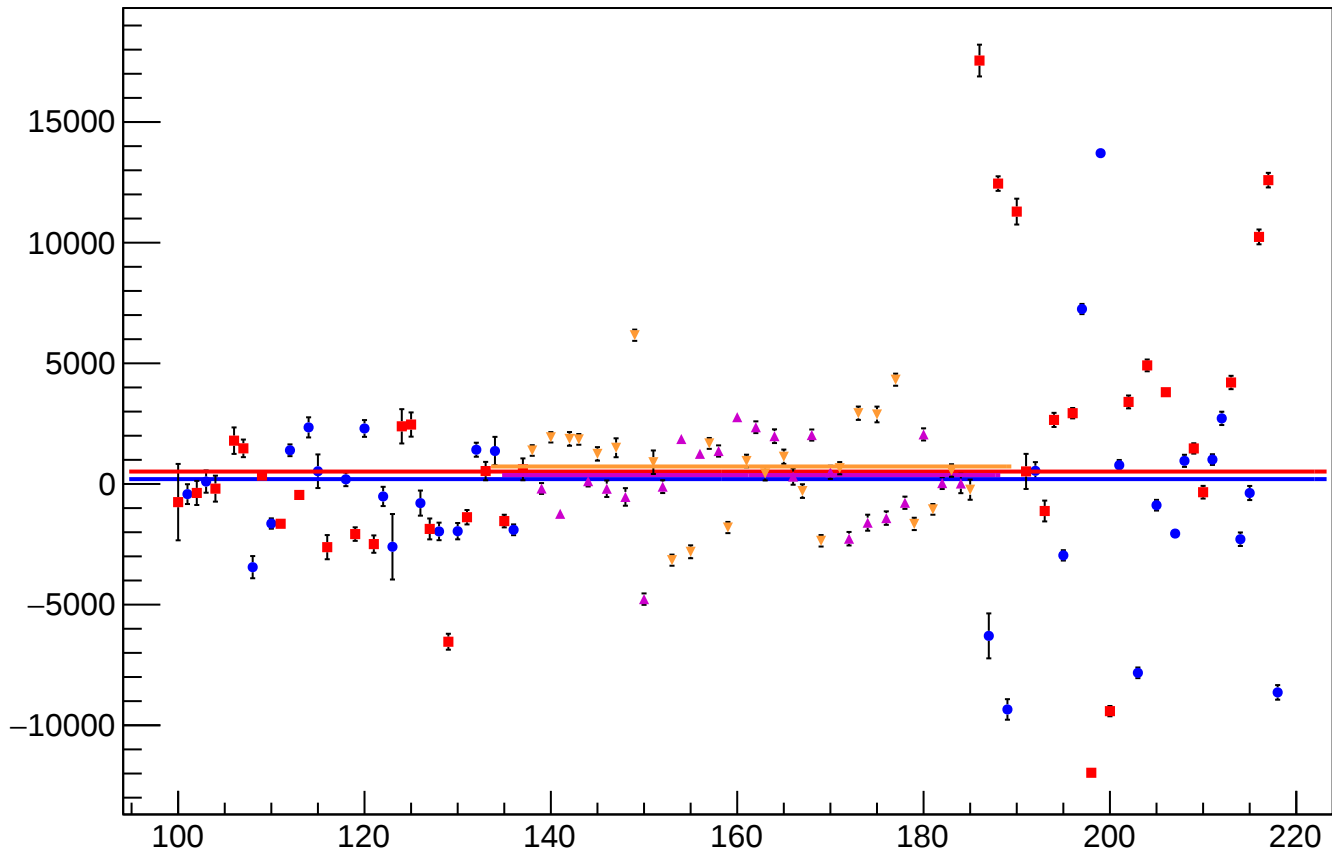
Right: 229.319+/-0.033 χ^2/NDF : 21598389.2/68

In: 216.852+/-0.029 χ^2/NDF : 12578327.4/55

Out: 222.147+/-0.028 χ^2/NDF : 11013608.9/60

All: 219.540+/-0.020 χ^2/NDF : 23608982.7/11

asym_bpm0l10WS_mean vs Slug, Sign Corrected



Right In: 201.299+/-50.125 χ^2/NDF : 9493.4/32

Left Out: 725.250+/-52.307 χ^2/NDF :1883.1/24

Right Out: 514.868+/-49.833 χ^2/NDF : 13035.7/35

Left In: 370.408+/-50.884 χ^2/NDF :1223.2/22

Left: 542.938+/-36.473 χ^2/NDF : 3129.9/47

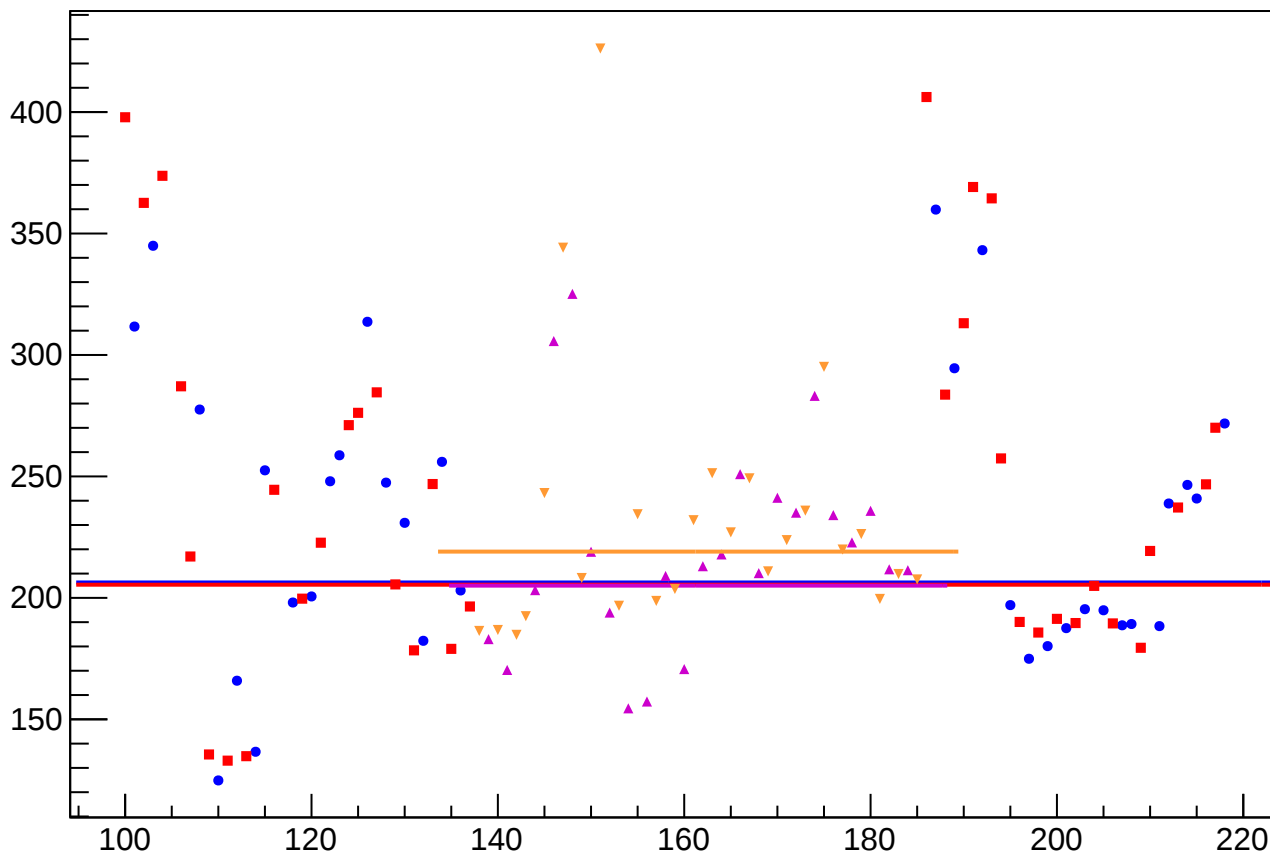
Right: 358.999+/-35.340 χ^2/NDF : 22548.8/68

In: 284.582+/-35.709 χ^2/NDF :10722.2/55

Out: 614.966+/-36.080 χ^2/NDF :14927.3/60

All: 448.067+/-25.380 χ^2/NDF : 25691.8/116

asym_bpm0l10WS_rms vs Slug, Sign Corrected



Right In: 206.335 ± 0.035 $\chi^2/\text{NDF}: 1708858.5/32$

Left Out: 219.049 ± 0.037 $\chi^2/\text{NDF}: 975564.4/24$

Right Out: 205.424 ± 0.035 $\chi^2/\text{NDF}: 2492405.3/35$

Left In: 205.046 ± 0.036 $\chi^2/\text{NDF}: 1144197.1/22$

Left: 211.855 ± 0.026 $\chi^2/\text{NDF}: 2193394.9/47$

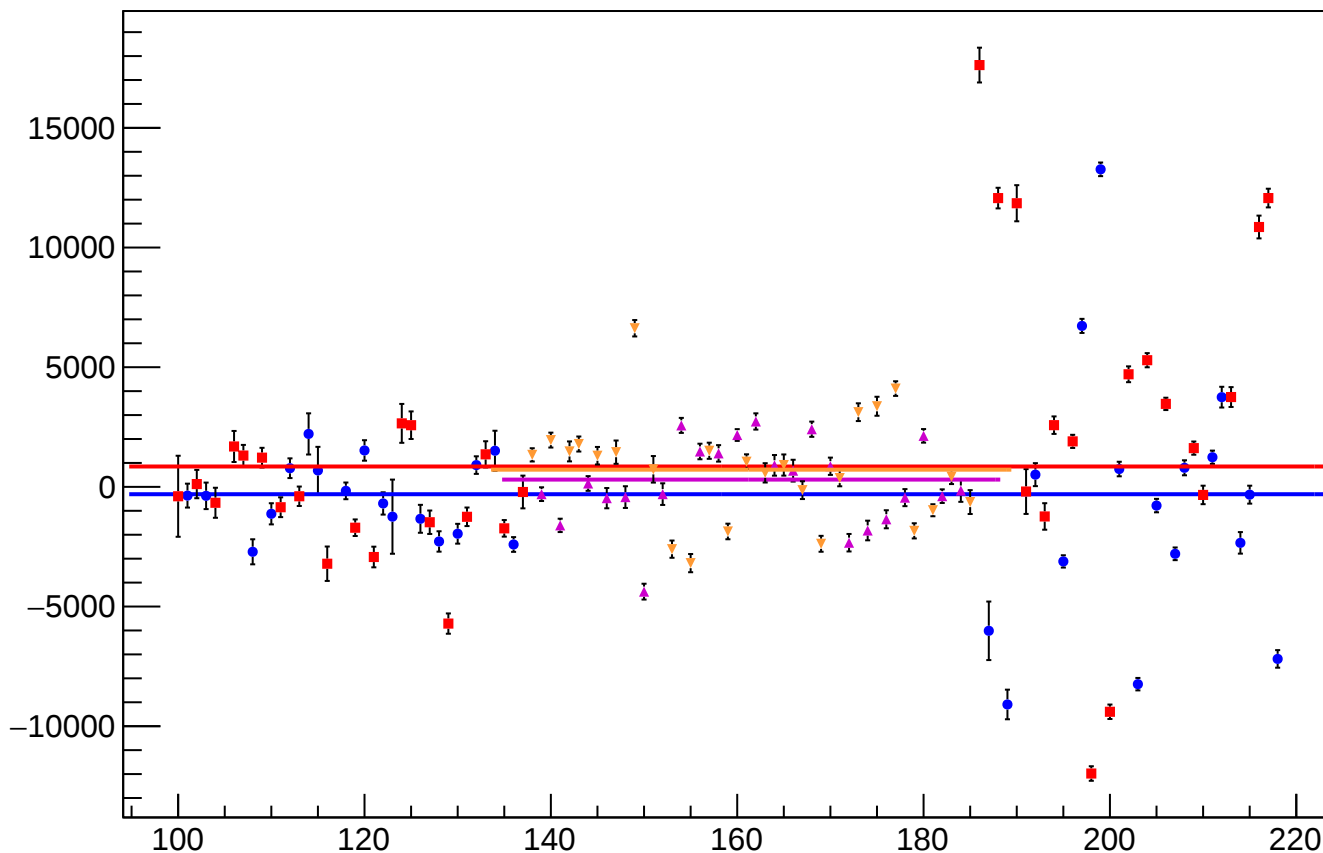
Right: 205.877 ± 0.025 $\chi^2/\text{NDF}: 4201595.7/68$

In: 205.700 ± 0.025 $\chi^2/\text{NDF}: 2853706.4/55$

Out: 211.907 ± 0.026 $\chi^2/\text{NDF}: 3539096.8/60$

All: 208.771 ± 0.018 $\chi^2/\text{NDF}: 6422697.5/116$

asym_bpm0r03WS_mean vs Slug, Sign Corrected



Right In: -306.894 ± 66.837 $\chi^2/\text{NDF}: 4892.0/32$

Left Out: 718.705 ± 69.601 $\chi^2/\text{NDF}: 1018.5/24$

Right Out: 851.383 ± 69.082 $\chi^2/\text{NDF}: 6764.1/35$

Left In: 304.161 ± 70.958 $\chi^2/\text{NDF}: 643.5/22$

Left: 515.435 ± 49.688 $\chi^2/\text{NDF}: 1679.4/47$

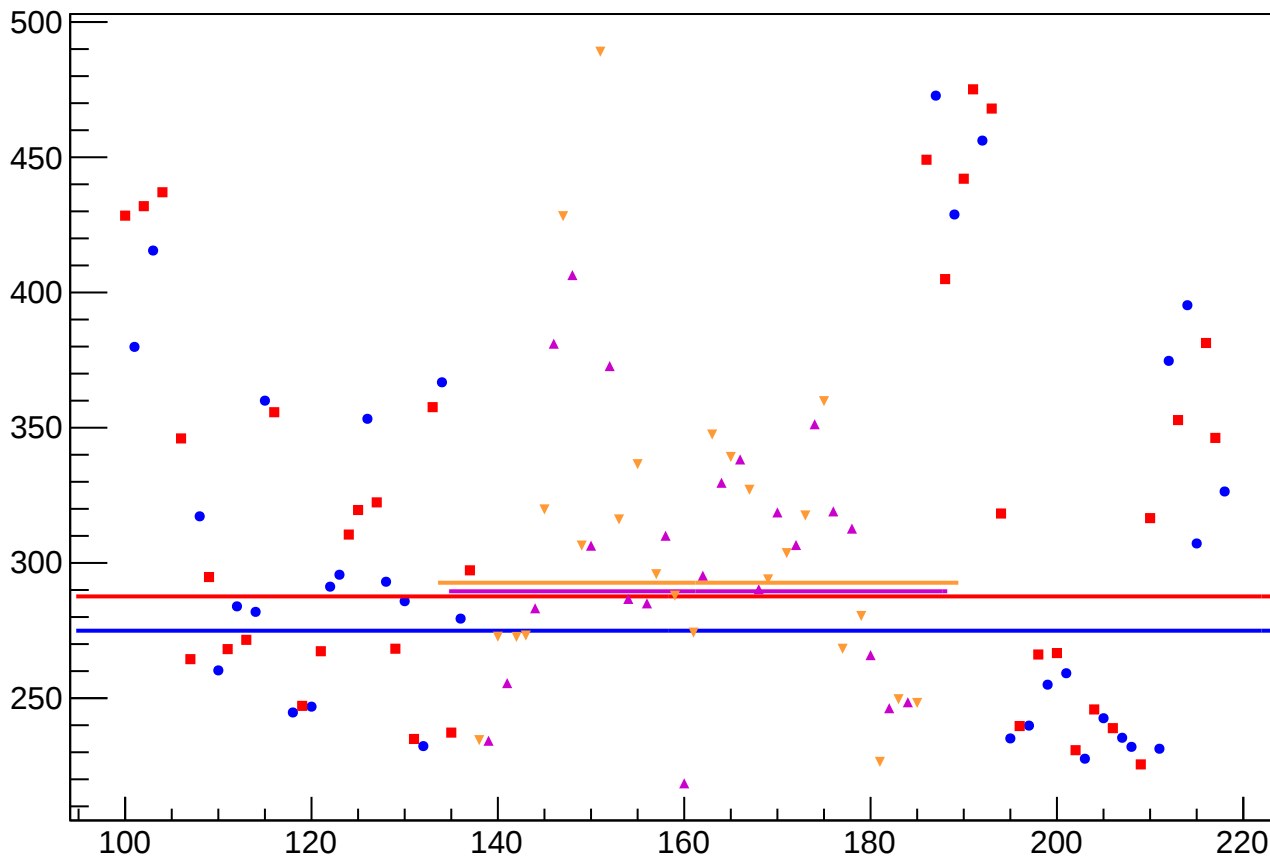
Right: 253.124 ± 48.035 $\chi^2/\text{NDF}: 11801.3/68$

In: -19.622 ± 48.653 $\chi^2/\text{NDF}: 5574.8/55$

Out: 785.540 ± 49.030 $\chi^2/\text{NDF}: 7784.4/60$

All: 379.844 ± 34.535 $\chi^2/\text{NDF}: 13495.1/116$

asym_bpm0r03WS_rms vs Slug, Sign Corrected



Right In: 274.946 $\pm$ 0.047 χ^2 /NDF: 1447910.0/32

Left Out: 292.686 $\pm$ 0.049 χ^2 /NDF: 925193.6/24

Right Out: 287.623 $\pm$ 0.049 χ^2 /NDF: 1632637.3/35

Left In: 289.522 $\pm$ 0.050 χ^2 /NDF: 777901.0/22

Left: 291.134 $\pm$ 0.035 χ^2 /NDF: 1705121.5/47

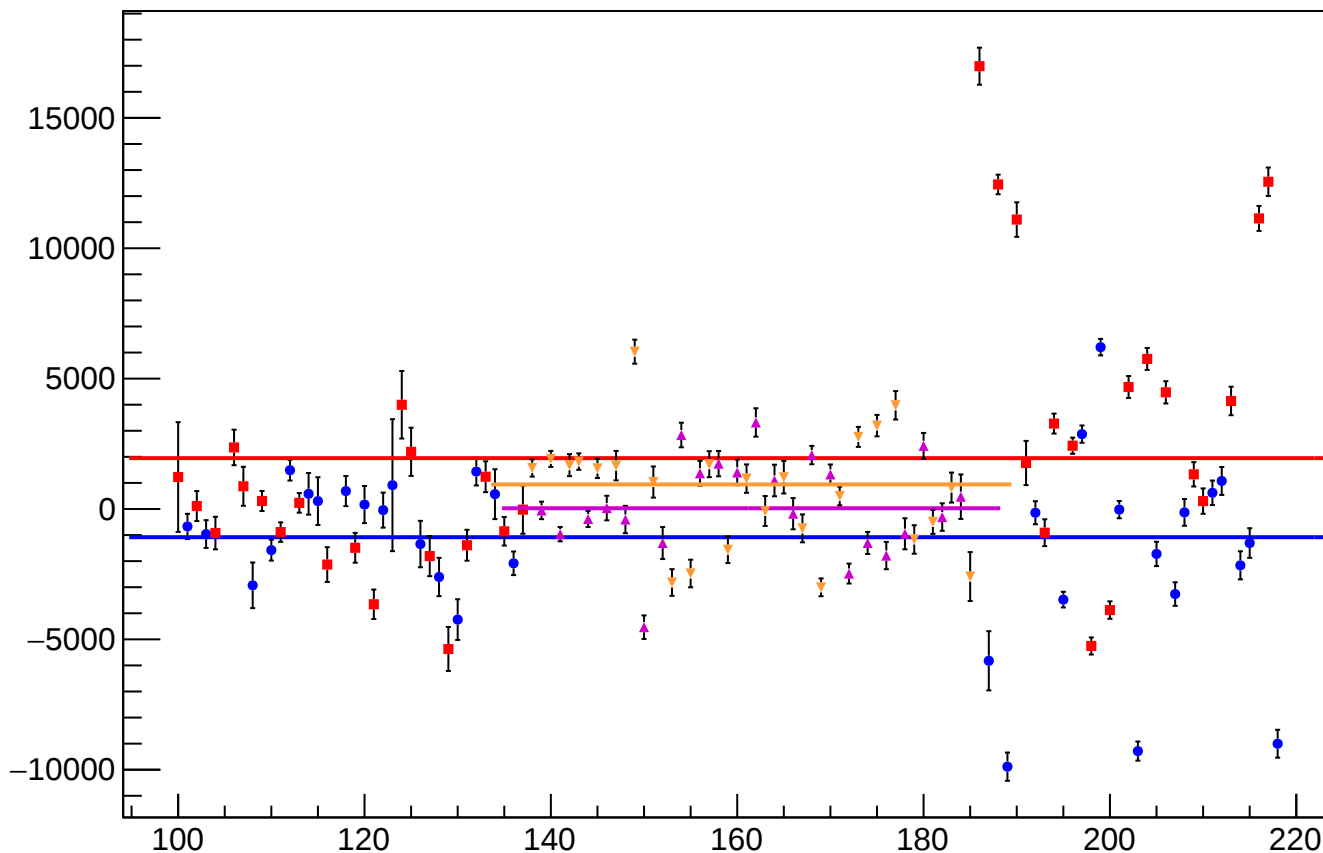
Right: 281.075 $\pm$ 0.034 χ^2 /NDF: 3115333.3/68

In: 281.799 $\pm$ 0.034 χ^2 /NDF: 2270524.9/55

Out: 290.136 $\pm$ 0.035 χ^2 /NDF: 2563161.6/60

All: 285.935 $\pm$ 0.024 χ^2 /NDF: 4862822.9/116

asym_bpm0r05WS_mean vs Slug, Sign Corrected



Right In: -1082.422 ± 86.635 $\chi^2/\text{NDF}: 1935.5/32$

Left Out: 941.598 ± 89.119 $\chi^2/\text{NDF}: 544.6/24$

Right Out: 1949.716 ± 83.642 $\chi^2/\text{NDF}: 3653.2/35$

Left In: 27.763 ± 92.331 $\chi^2/\text{NDF}: 362.5/22$

Left: 500.853 ± 64.122 $\chi^2/\text{NDF}: 957.8/47$

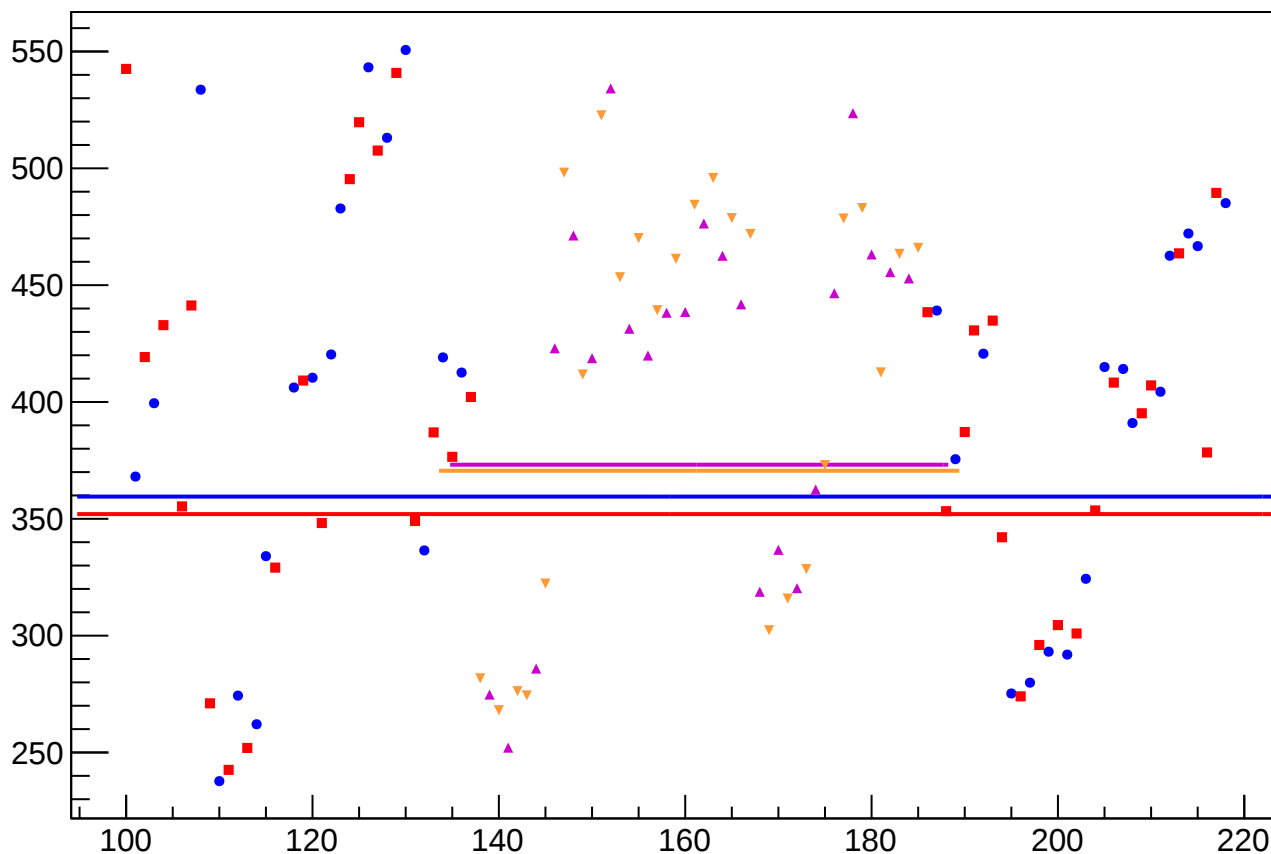
Right: 486.924 ± 60.174 $\chi^2/\text{NDF}: 6222.7/68$

In: -562.630 ± 63.178 $\chi^2/\text{NDF}: 2375.0/55$

Out: 1477.585 ± 60.988 $\chi^2/\text{NDF}: 4265.8/60$

All: 493.446 ± 43.879 $\chi^2/\text{NDF}: 7180.5/116$

asym_bpm0r05WS_rms vs Slug, Sign Corrected



Right In: 359.516 $\pm$ 0.061 χ^2 /NDF: 1710145.5/32

Left Out: 370.580 $\pm$ 0.063 χ^2 /NDF:1878118.9/24

Right Out: 352.020 $\pm$ 0.059 χ^2 /NDF: 1473824.9/35

Left In: 373.161 $\pm$ 0.065 χ^2 /NDF:1636244.2/22

Left: 371.824 $\pm$ 0.045 χ^2 /NDF: 3515172.3/47

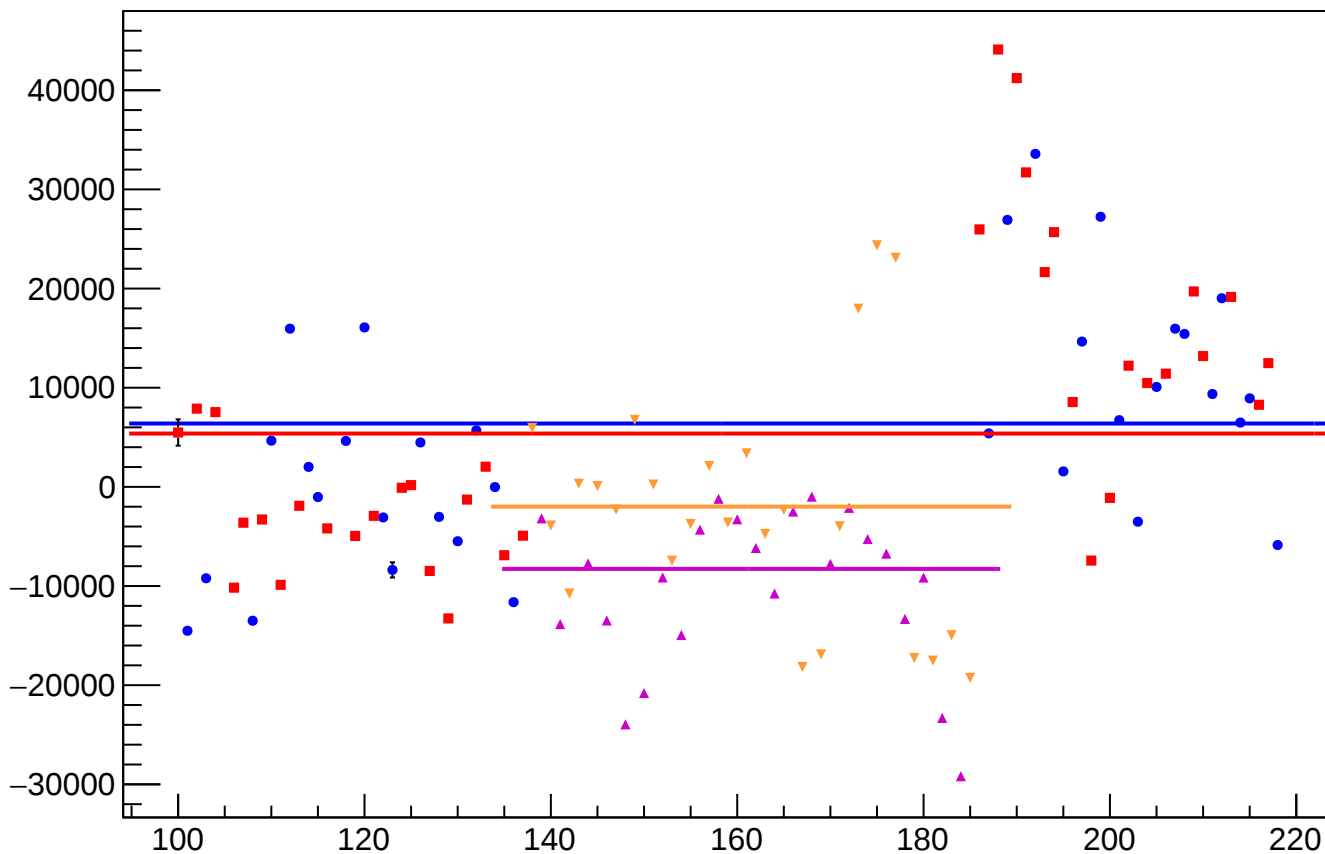
Right: 355.636 $\pm$ 0.043 χ^2 /NDF: 3191721.0/68

In: 365.905 $\pm$ 0.045 χ^2 /NDF:3369617.1/55

Out: 360.712 $\pm$ 0.043 χ^2 /NDF:3398063.8/60

All: 363.217 $\pm$ 0.031 χ^2 /NDF: 6774674.8/116

asym_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 6390.764 ± 39.206

$\chi^2/\text{NDF}: 96018.3/32$

Left Out: -1991.788 ± 42.427

$\chi^2/\text{NDF}: 63766.6/24$

Right Out: 5377.673 ± 37.961

$\chi^2/\text{NDF}: 144907.7/35$

Left In: -8273.228 ± 44.301

$\chi^2/\text{NDF}: 22870.2/22$

Left: -4996.810 ± 30.641 $\chi^2/\text{NDF}: 97123.2/47$

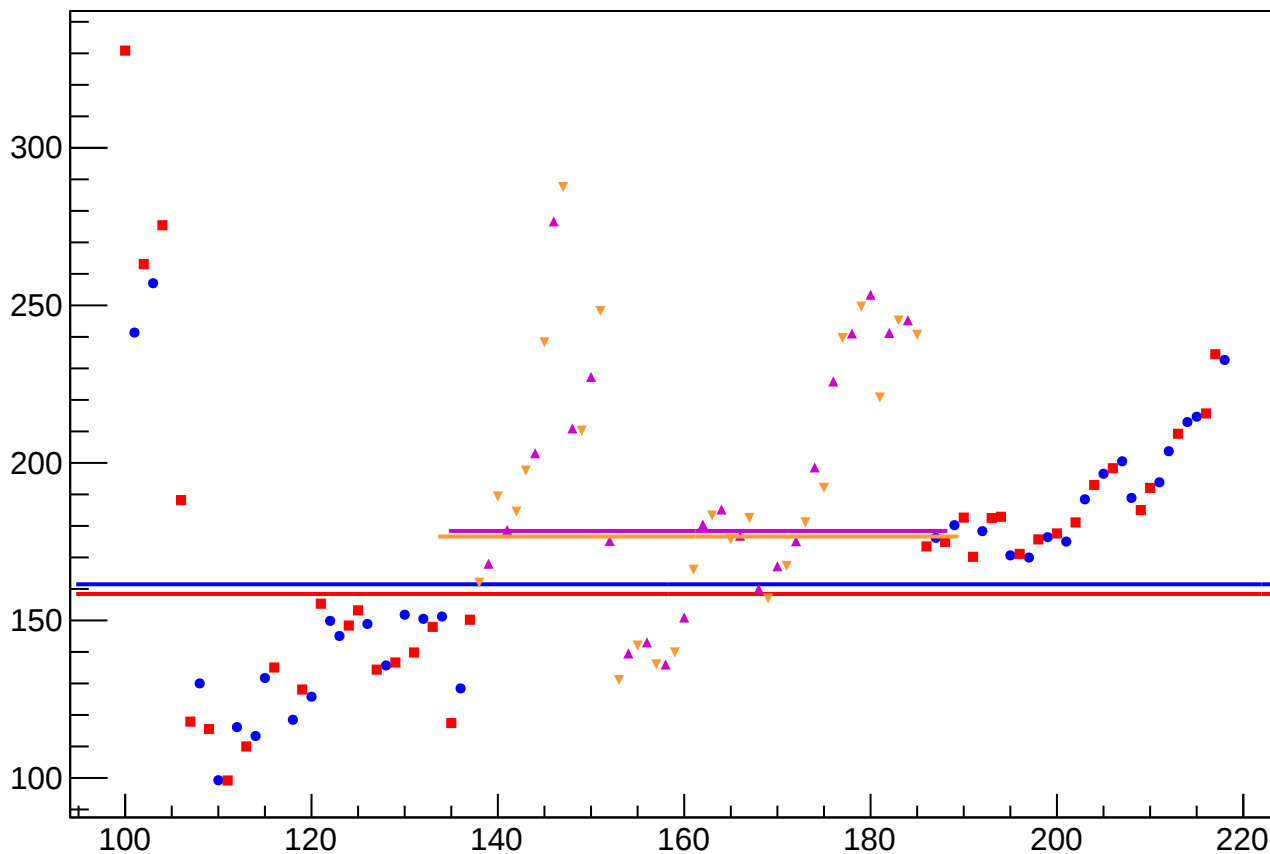
Right: 5867.875 ± 27.272 $\chi^2/\text{NDF}: 241270.7/68$

In: -49.896 ± 29.360 $\chi^2/\text{NDF}: 180331.0/55$

Out: 2101.058 ± 28.290 $\chi^2/\text{NDF}: 225430.7/60$

All: 1065.482 ± 20.372 $\chi^2/\text{NDF}: 408545.0/11$

asym_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 161.476 ± 0.028 $\chi^2/\text{NDF}: 1777563.0/32$

Left Out: 176.641 ± 0.030 $\chi^2/\text{NDF}: 1551048.8/24$

Right Out: 158.400 ± 0.027 $\chi^2/\text{NDF}: 1998472.4/35$

Left In: 178.413 ± 0.031 $\chi^2/\text{NDF}: 1293736.2/22$

Left: 177.489 ± 0.022 $\chi^2/\text{NDF}: 2846455.0/47$

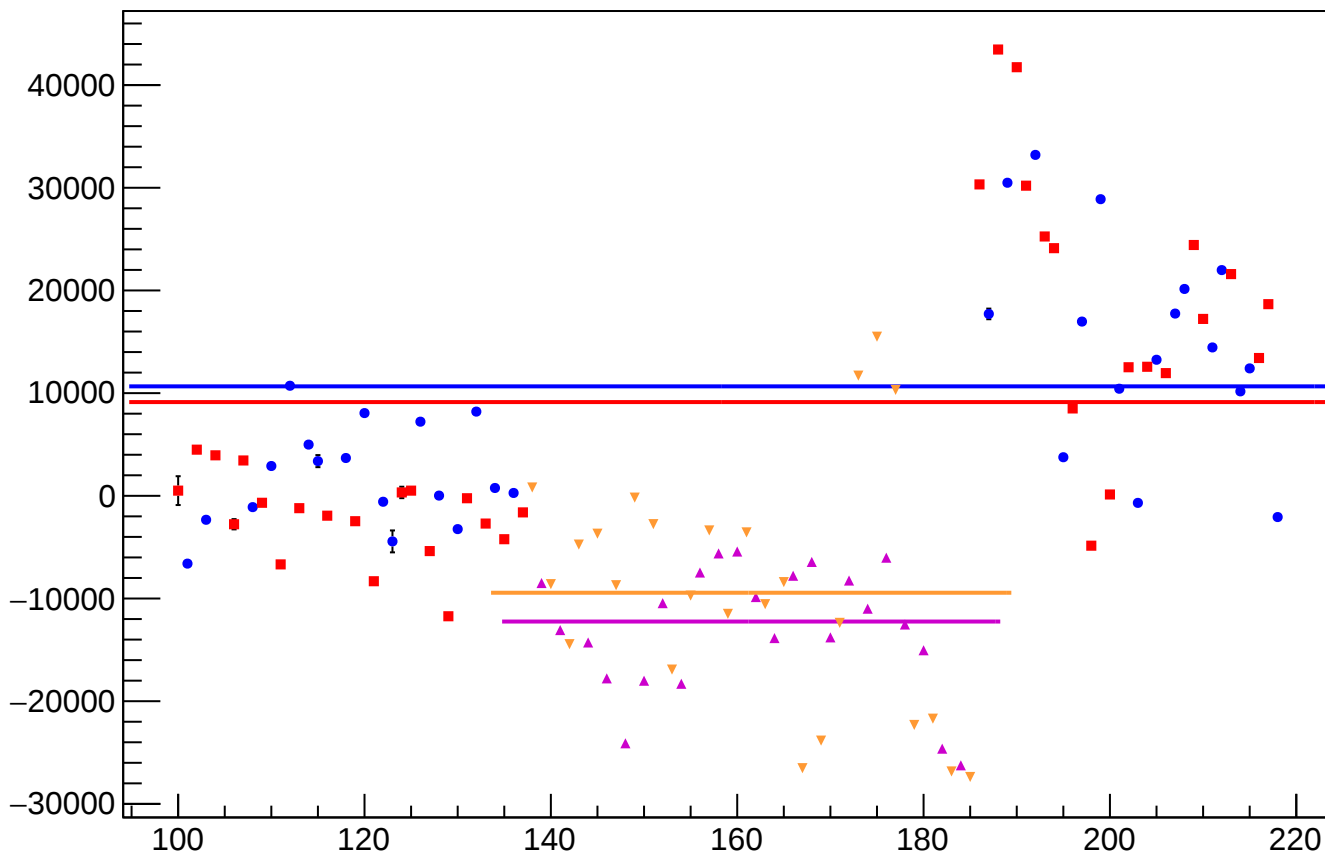
Right: 159.888 ± 0.019 $\chi^2/\text{NDF}: 3782389.8/68$

In: 168.915 ± 0.021 $\chi^2/\text{NDF}: 3235237.2/55$

Out: 166.510 ± 0.020 $\chi^2/\text{NDF}: 3754838.7/60$

All: 167.668 ± 0.014 $\chi^2/\text{NDF}: 6997034.6/116$

asym_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 10660.821+/-42.981

χ^2/NDF : 57632.3/32

Left Out: -9437.408+/-45.534

χ^2/NDF : 62220.4/24

Right Out: 9129.502+/-41.838

χ^2/NDF : 117279.5/35

Left In: -12242.226+/-43.944

χ^2/NDF : 16615.8/22

Left: -10889.638+/-31.621

χ^2/NDF : 80800.7/47

Right: 9874.537+/-29.980

χ^2/NDF : 175563.5/68

In: -536.886+/-30.727

χ^2/NDF : 213073.7/55

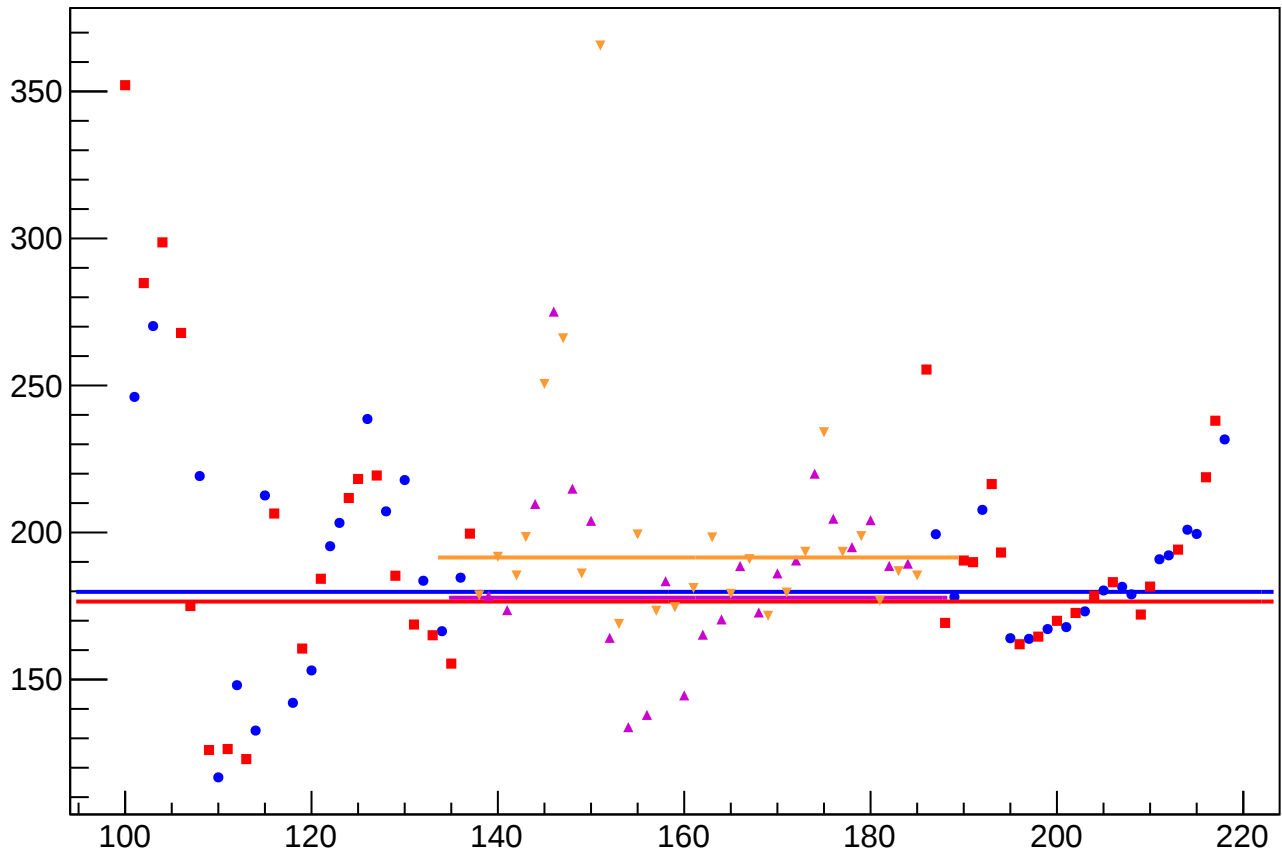
Out: 630.045+/-30.808

χ^2/NDF : 269653.1/60

All: 45.044+/-21.756

χ^2/NDF : 483446.0/116

asym_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 179.813+/-0.030 χ^2/NDF : 900735.9/32

Left Out: 191.507+/-0.032 χ^2/NDF : 727251.6/24

Right Out: 176.515+/-0.030 χ^2/NDF : 1312749.3/35

Left In: 177.821+/-0.031 χ^2/NDF : 862494.4/22

Left: 184.421+/-0.022 χ^2/NDF : 1683284.8/47

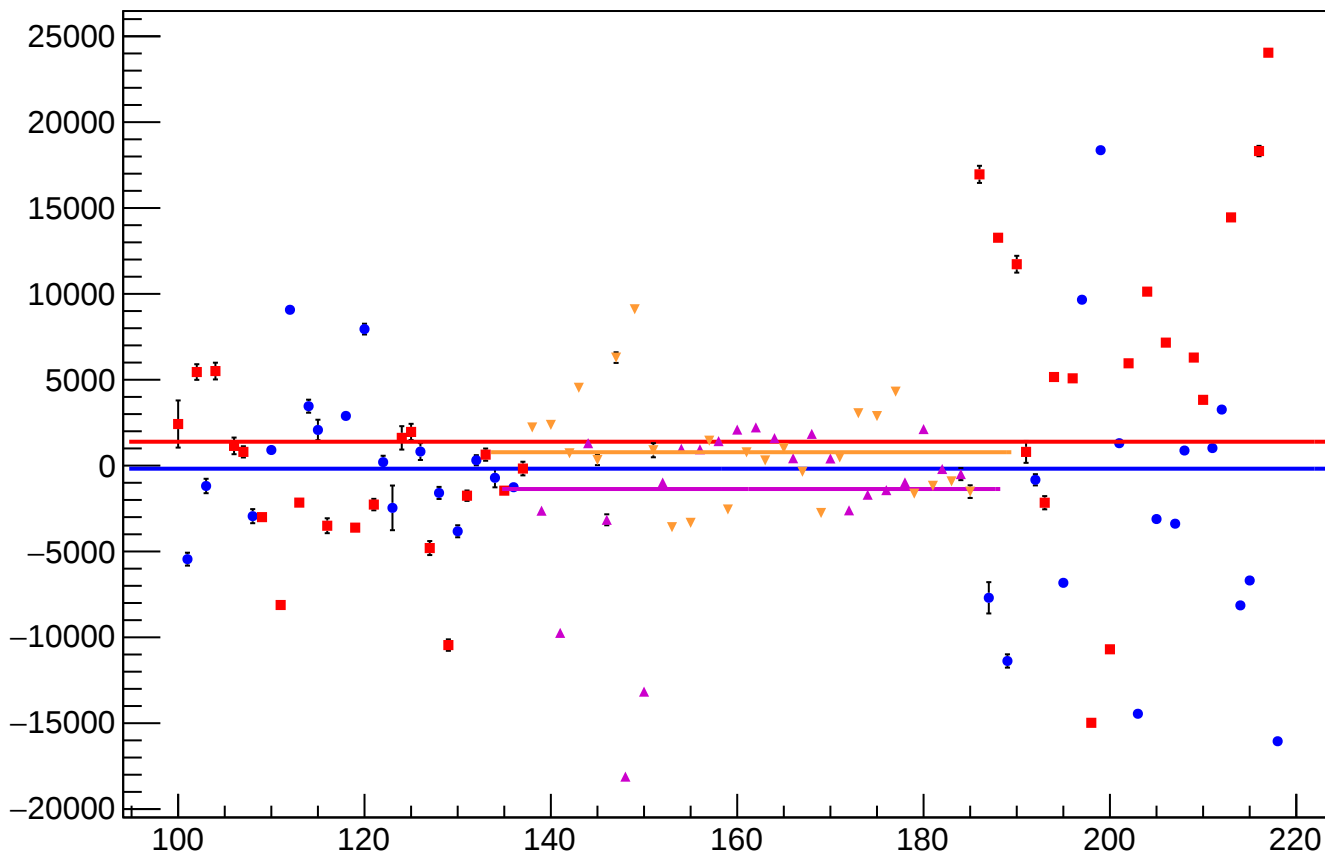
Right: 178.120+/-0.021 χ^2/NDF : 2219531.8/68

In: 178.839+/-0.022 χ^2/NDF : 1765329.9/55

Out: 183.378+/-0.022 χ^2/NDF : 2157553.9/60

All: 181.103+/-0.015 χ^2/NDF : 3944642.7/116

asym_bpm0i05WS_mean vs Slug, Sign Corrected



Right In: -179.708 ± 48.117 $\chi^2/\text{NDF}: 25497.0/32$

Left Out: 779.983 ± 47.457 $\chi^2/\text{NDF}: 4260.8/24$

Right Out: 1390.997 ± 47.038 $\chi^2/\text{NDF}: 34515.6/35$

Left In: -1363.043 ± 45.807 $\chi^2/\text{NDF}: 11632.9/22$

Left: -329.448 ± 32.958 $\chi^2/\text{NDF}: 16949.3/47$

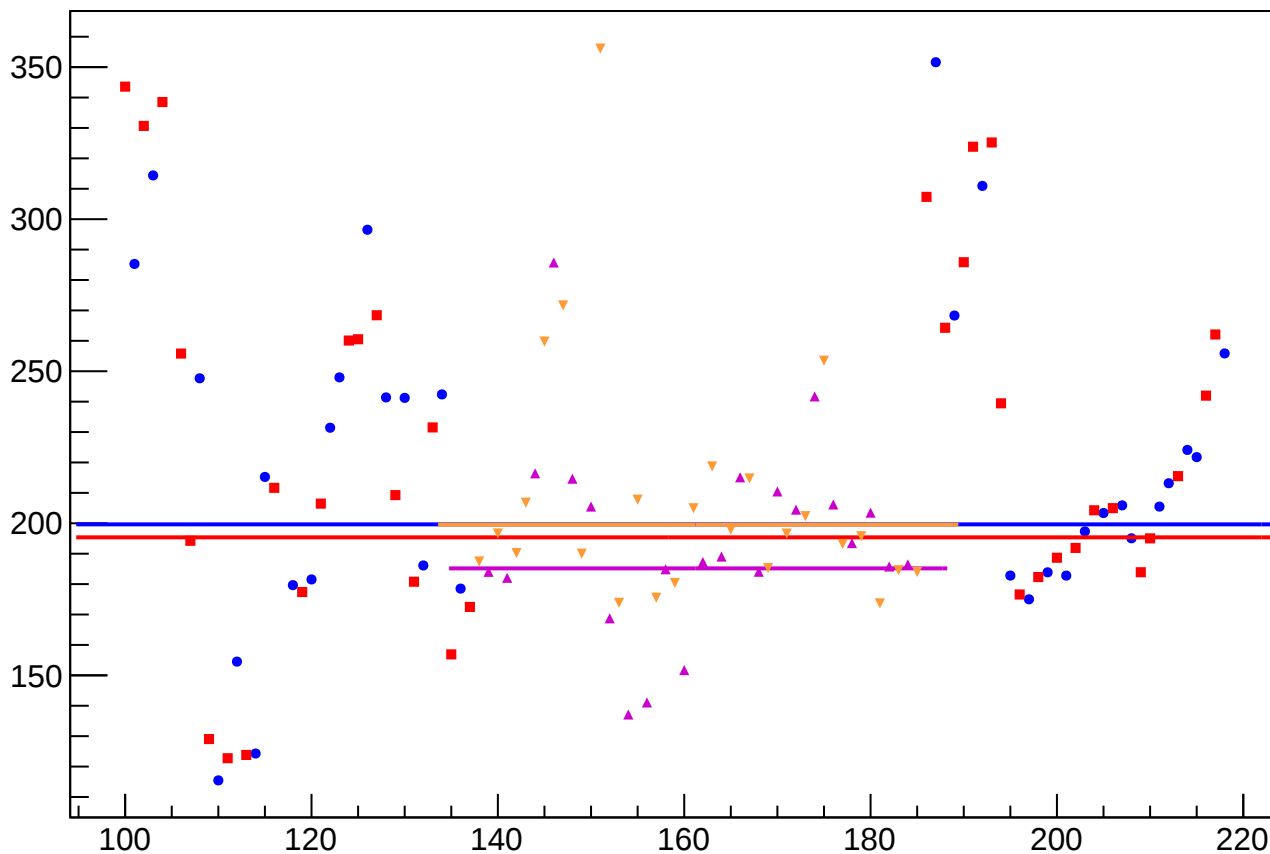
Right: 623.454 ± 33.636 $\chi^2/\text{NDF}: 60557.5/68$

In: -800.468 ± 33.177 $\chi^2/\text{NDF}: 37447.2/55$

Out: 1088.201 ± 33.408 $\chi^2/\text{NDF}: 38860.0/60$

All: 137.307 ± 23.541 $\chi^2/\text{NDF}: 77916.3/116$

asym_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 199.645 ± 0.034 χ^2/NDF : 1547842.9/32

Left Out: 199.547 ± 0.034 χ^2/NDF : 729356.3/24

Right Out: 195.379 ± 0.033 χ^2/NDF : 2321442.1/35

Left In: 185.171 ± 0.032 χ^2/NDF : 882752.2/22

Left: 192.104 ± 0.023 χ^2/NDF : 1707122.0/47

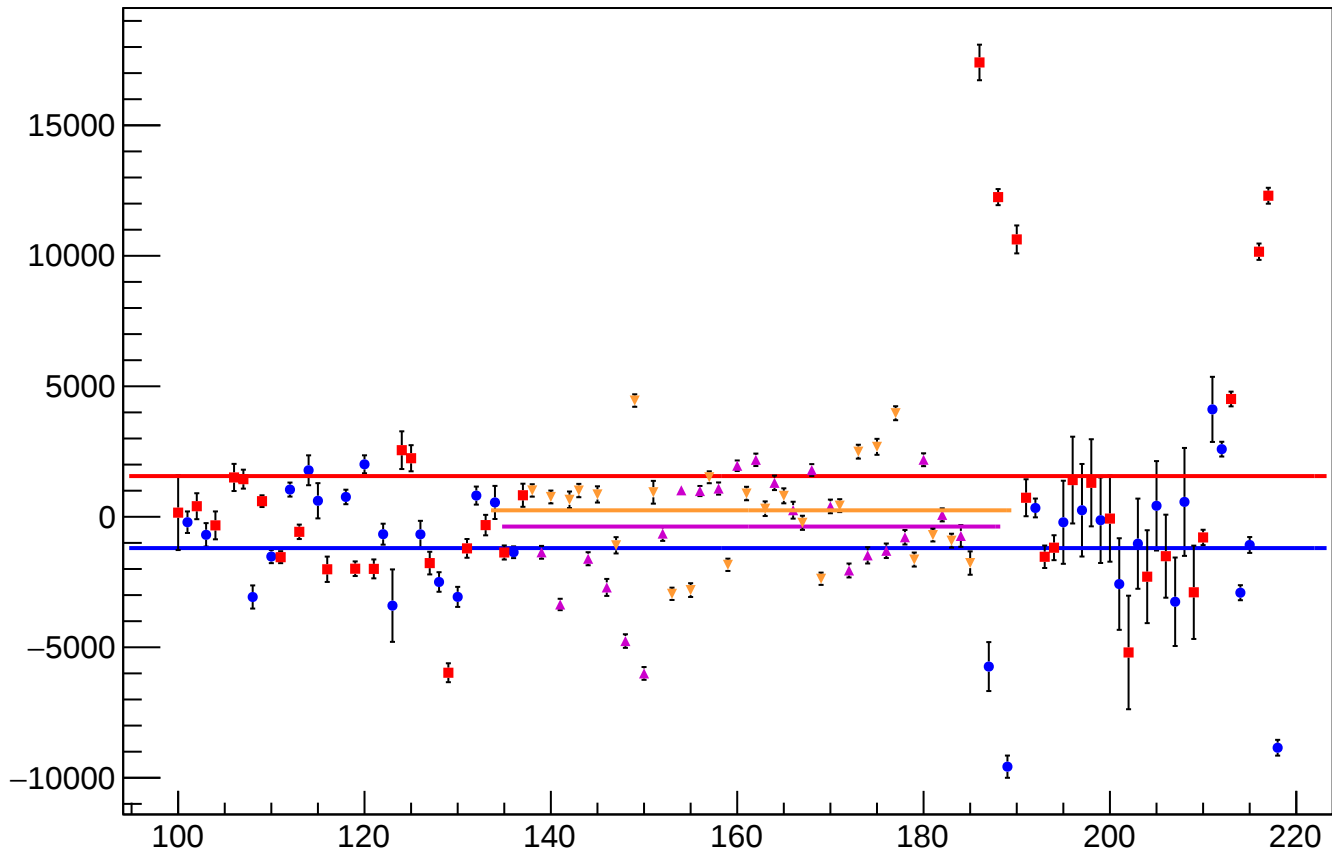
Right: 197.464 ± 0.024 χ^2/NDF : 3877325.3/68

In: 192.052 ± 0.023 χ^2/NDF : 2525537.6/55

Out: 197.444 ± 0.024 χ^2/NDF : 3058580.4/60

All: 194.729 ± 0.017 χ^2/NDF : 5610350.6/116

asym_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -1198.997 ± 72.398 $\chi^2/\text{NDF}: 1656.7/32$

Left Out: 247.844 ± 53.555 $\chi^2/\text{NDF}: 1355.1/24$

Right Out: 1559.932 ± 66.936 $\chi^2/\text{NDF}: 5599.6/35$

Left In: -374.122 ± 52.049 $\chi^2/\text{NDF}: 1801.0/22$

Left: -72.006 ± 37.325 $\chi^2/\text{NDF}: 3225.5/47$

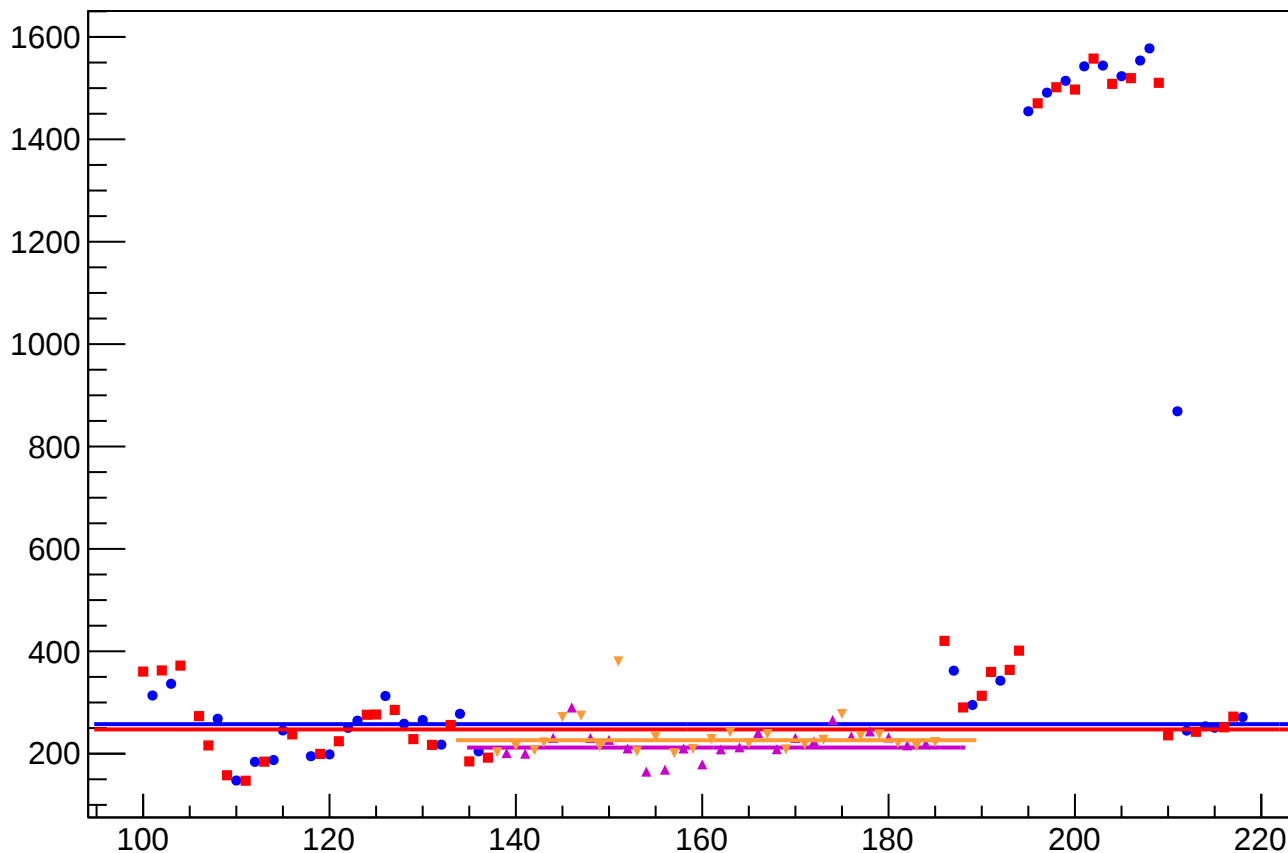
Right: 288.449 ± 49.149 $\chi^2/\text{NDF}: 8039.1/68$

In: -655.192 ± 42.261 $\chi^2/\text{NDF}: 3543.3/55$

Out: 759.947 ± 41.818 $\chi^2/\text{NDF}: 7188.9/60$

All: 59.842 ± 29.725 $\chi^2/\text{NDF}: 11298.7/116$

asym_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 257.675 ± 0.051 $\chi^2/\text{NDF}: 10151378.9/32$

Left Out: 226.322 ± 0.038 $\chi^2/\text{NDF}: 521041.8/24$

Right Out: 247.435 ± 0.047 $\chi^2/\text{NDF}: 9288035.3/35$

Left In: 211.970 ± 0.037 $\chi^2/\text{NDF}: 584344.5/22$

Left: 218.941 ± 0.026 $\chi^2/\text{NDF}: 1179246.7/47$

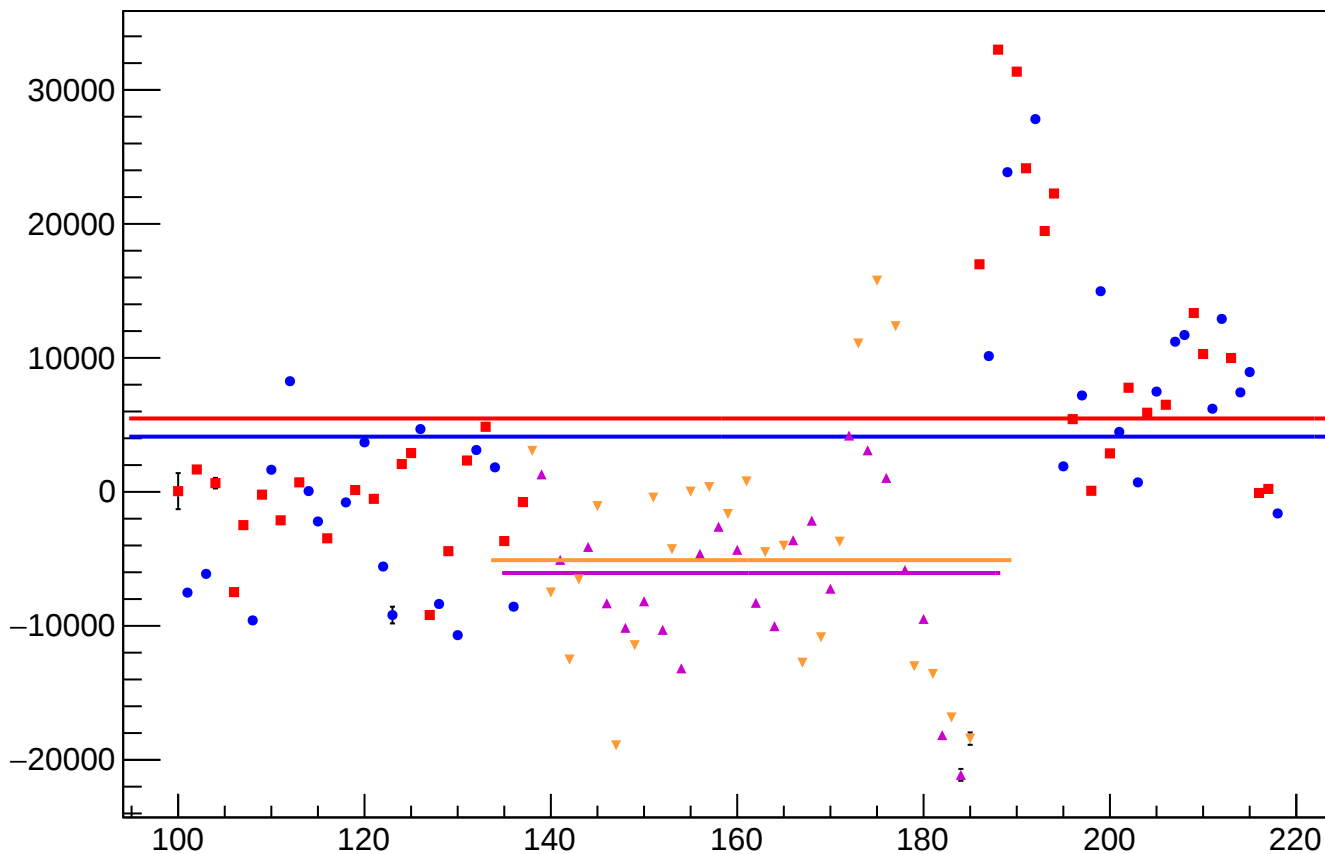
Right: 252.154 ± 0.035 $\chi^2/\text{NDF}: 19460986.4/68$

In: 227.544 ± 0.030 $\chi^2/\text{NDF}: 11261206.0/55$

Out: 234.562 ± 0.030 $\chi^2/\text{NDF}: 9930397.0/60$

All: 231.090 ± 0.021 $\chi^2/\text{NDF}: 21219473.5/111$

asym_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: 4122.799 $\pm$ 33.343

χ^2/NDF : 80792.0/32

Left: -5556.386 $\pm$ 24.277 χ^2/NDF : 72374.6/47

Right: 4827.509 $\pm$ 23.108 χ^2/NDF : 186731.6/68

Left Out: -5095.305 $\pm$ 33.703

χ^2/NDF : 54395.4/24

In: -719.032 $\pm$ 24.141 χ^2/NDF : 142702.5/55

Right Out: 5478.795 $\pm$ 32.054

χ^2/NDF : 105080.1/35

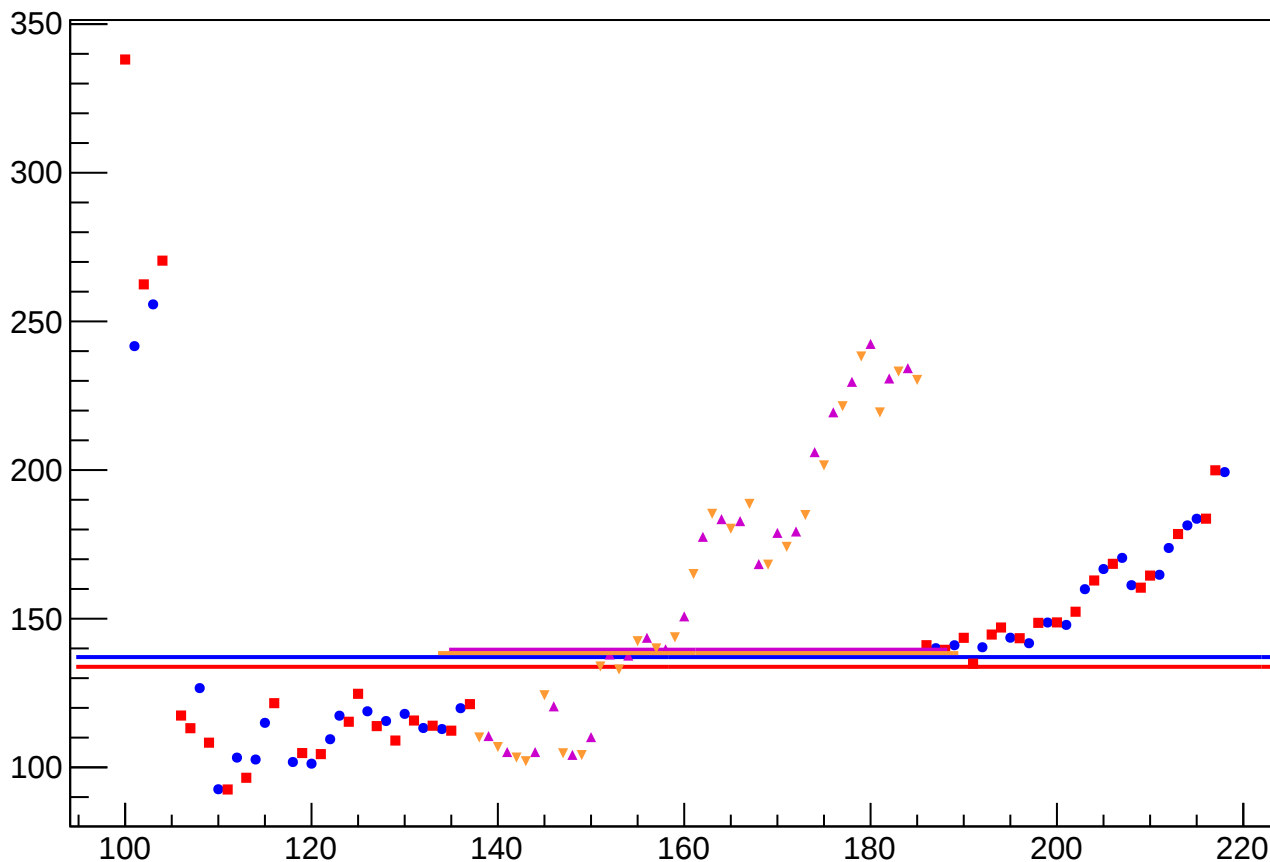
Out: 456.838 $\pm$ 23.227 χ^2/NDF : 211159.4/60

Left In: -6053.569 $\pm$ 34.998

χ^2/NDF : 17590.3/22

All: -108.415 $\pm$ 16.738 χ^2/NDF : 355093.9/11

asym_bpm1i02WS_rms vs Slug, Sign Corrected



Right In: 137.090 $\pm$ 0.024 χ^2/NDF : 1789469.3/32

Left Out: 138.436 $\pm$ 0.024 χ^2/NDF :2549435.8/24

Right Out: 133.816 $\pm$ 0.023 χ^2/NDF : 1862924.2/35

Left In: 139.578 $\pm$ 0.025 χ^2/NDF :2413658.9/22

Left: 138.985 $\pm$ 0.017 χ^2/NDF : 4964199.7/47

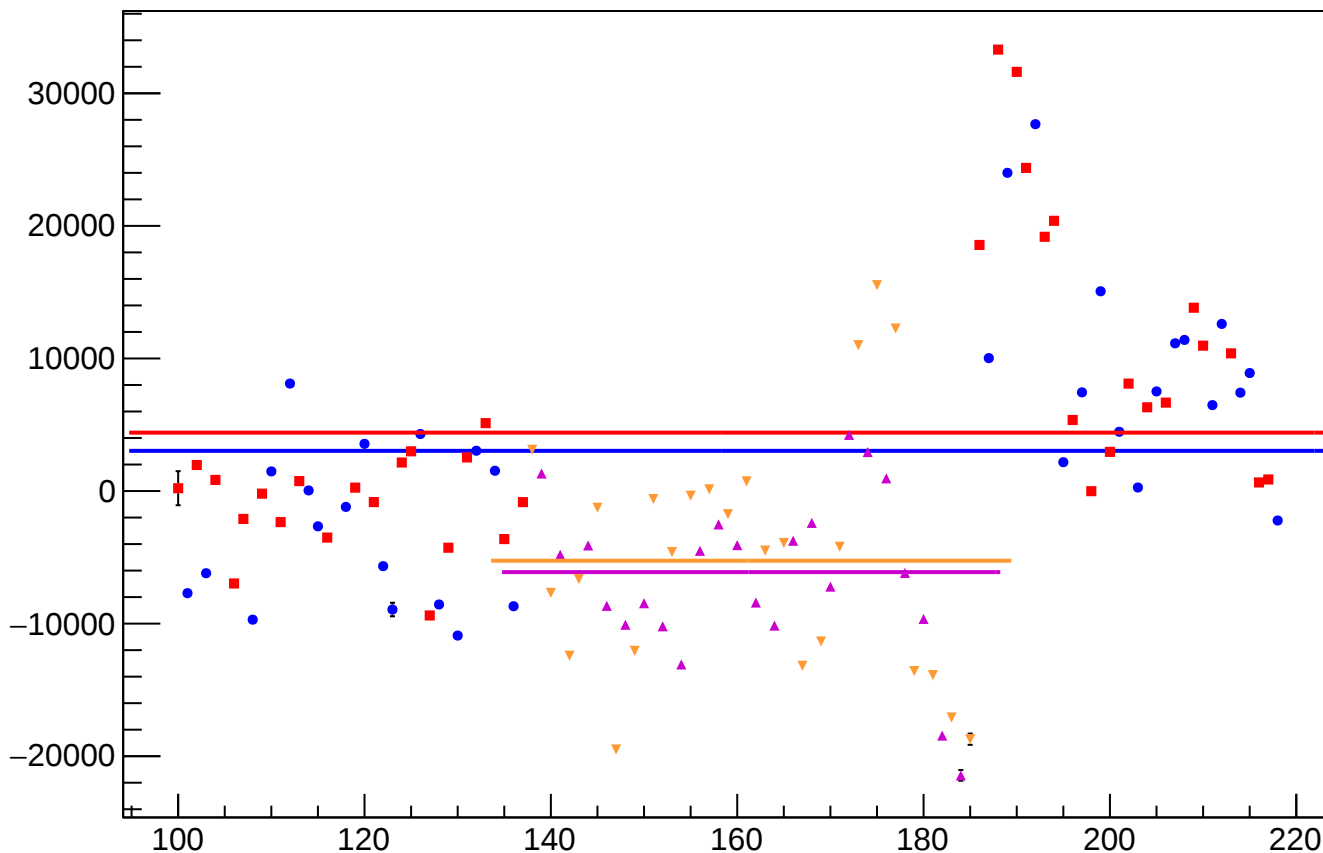
Right: 135.388 $\pm$ 0.016 χ^2/NDF : 3662419.9/68

In: 138.274 $\pm$ 0.017 χ^2/NDF :4208423.8/55

Out: 136.010 $\pm$ 0.016 χ^2/NDF :4432092.9/60

All: 137.098 $\pm$ 0.012 χ^2/NDF : 8649651.5/116

asym_bpm1i04WS_mean vs Slug, Sign Corrected



Right In: 3032.053+/-29.970

χ^2/NDF : 91689.8/32

Left Out: -5255.652+/-30.622

χ^2/NDF : 64324.6/24

Right Out: 4406.030+/-28.905

χ^2/NDF : 114352.2/35

Left In: -6114.901+/-32.126

χ^2/NDF : 21260.9/22

Left: -5664.697+/-22.166

χ^2/NDF : 85960.3/47

Right: 3743.878+/-20.805

χ^2/NDF : 207131.0/68

In: -1224.215+/-21.914

χ^2/NDF : 156296.1/55

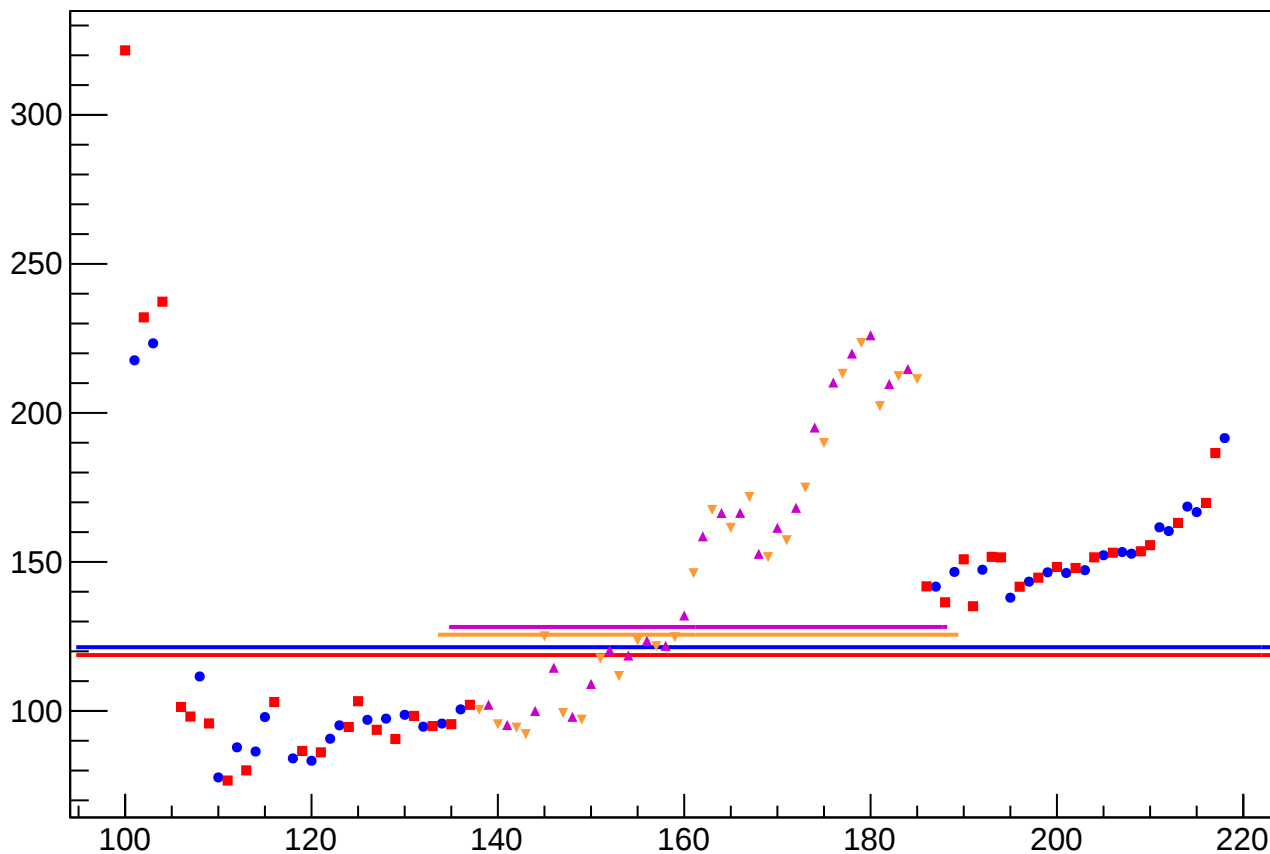
Out: -146.374+/-21.020

χ^2/NDF : 231320.6/60

All: -662.846+/-15.170

χ^2/NDF : 388876.6/111

asym_bpm1i04WS_rms vs Slug, Sign Corrected



Right In: 121.396+/-0.021 χ^2/NDF : 2660957.6/32

Left Out: 125.577+/-0.022 χ^2/NDF : 2595752.6/24

Right Out: 118.749+/-0.020 χ^2/NDF : 2809655.7/35

Left In: 128.184+/-0.023 χ^2/NDF : 2332977.5/22

Left: 126.818+/-0.016 χ^2/NDF : 4935627.6/47

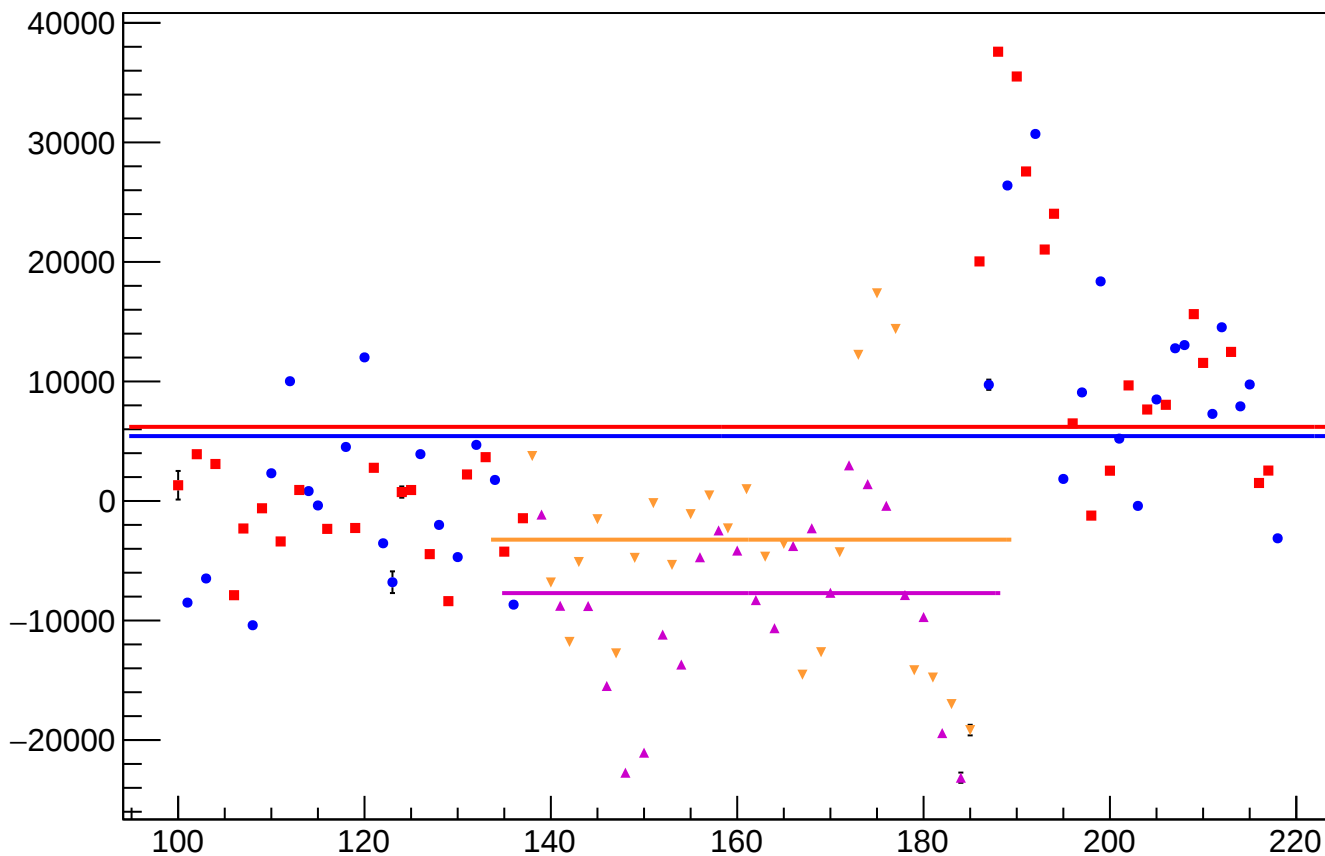
Right: 120.025+/-0.015 χ^2/NDF : 5478692.4/68

In: 124.554+/-0.015 χ^2/NDF : 5041675.6/55

Out: 121.967+/-0.015 χ^2/NDF : 5457990.6/60

All: 123.207+/-0.011 χ^2/NDF : 10514191.1/111

asym_bpm1i06WS_mean vs Slug, Sign Corrected



Right In: 5428.865+/-39.546 χ^2/NDF : 63936.4/32

Left Out: -3234.922+/-40.583 χ^2/NDF :36739.9/24

Right Out: 6202.326+/-38.085 χ^2/NDF : 93951.3/35

Left In: -7707.068+/-42.990 χ^2/NDF :21268.3/22

Left: -5342.284+/-29.511 χ^2/NDF : 63730.6/47

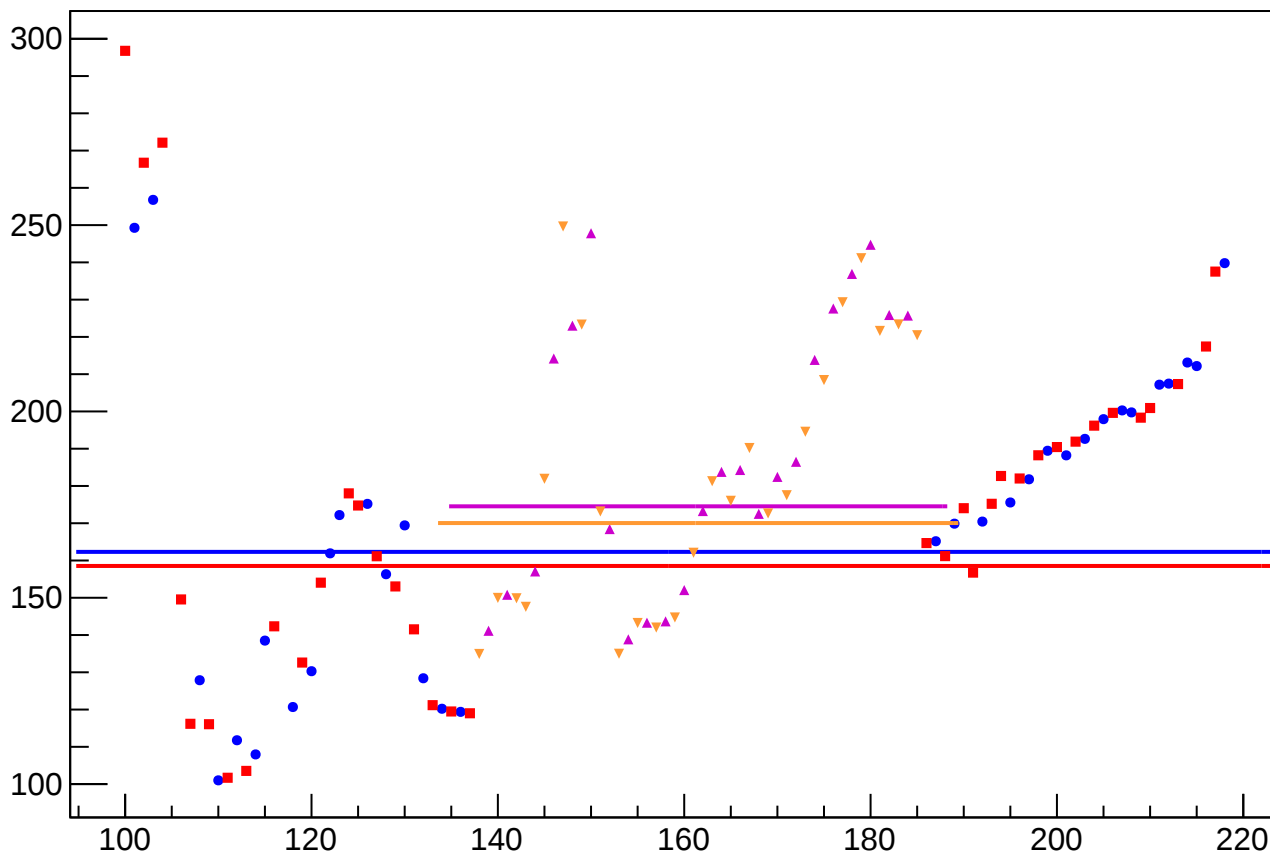
Right: 5830.146+/-27.432 χ^2/NDF : 158086.1/68

In: -591.982+/-29.105 χ^2/NDF :135776.5/55

Out: 1782.985+/-27.771 χ^2/NDF :159444.5/60

All: 651.153+/-20.092 χ^2/NDF : 298706.3/116

asym_bpm1i06WS_rms vs Slug, Sign Corrected



Right In: 162.315 ± 0.028 χ^2/NDF : 2071223.9/32

Left Out: 170.050 ± 0.029 χ^2/NDF : 1240866.9/24

Right Out: 158.536 ± 0.027 χ^2/NDF : 2168834.8/35

Left In: 174.539 ± 0.030 χ^2/NDF : 1210071.2/22

Left: 172.165 ± 0.021 χ^2/NDF : 2462472.2/47

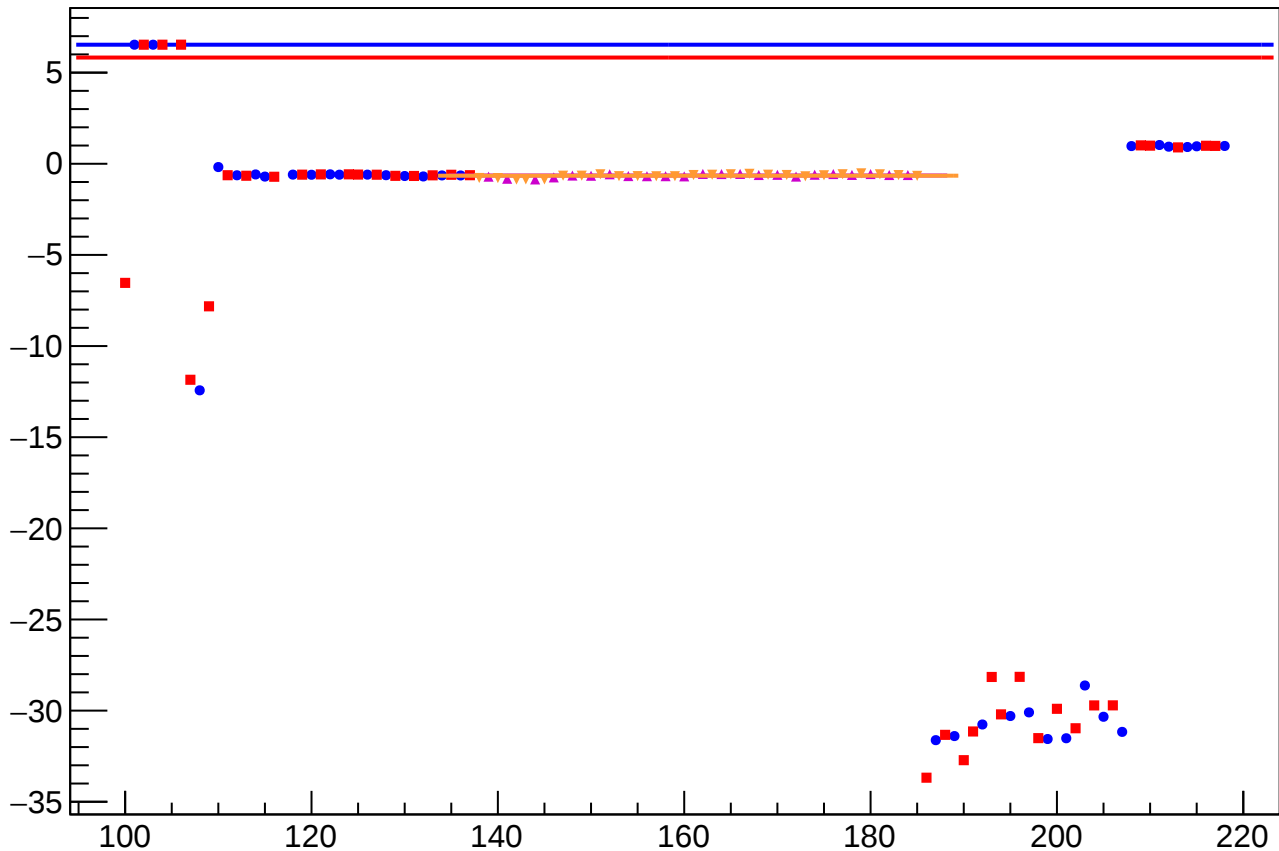
Right: 160.354 ± 0.019 χ^2/NDF : 4249535.0/68

In: 167.918 ± 0.021 χ^2/NDF : 3368888.0/55

Out: 163.927 ± 0.020 χ^2/NDF : 3495303.2/60

All: 165.829 ± 0.014 χ^2/NDF : 6883869.8/116

yield_cav4bX_mean vs Slug, Sign Corrected



Right In: 6.532+/-0.000 χ^2/NDF : 138682048180.6/32

Left Out: -0.654+/-0.000 χ^2/NDF : 179109810.4/24

Right Out: 5.827+/-0.000 χ^2/NDF : 755954286363414.9/35

Left In: -0.644+/-0.000 χ^2/NDF : 122913584.0/22

Left: -0.649+/-0.000 χ^2/NDF : 302910331.9/47

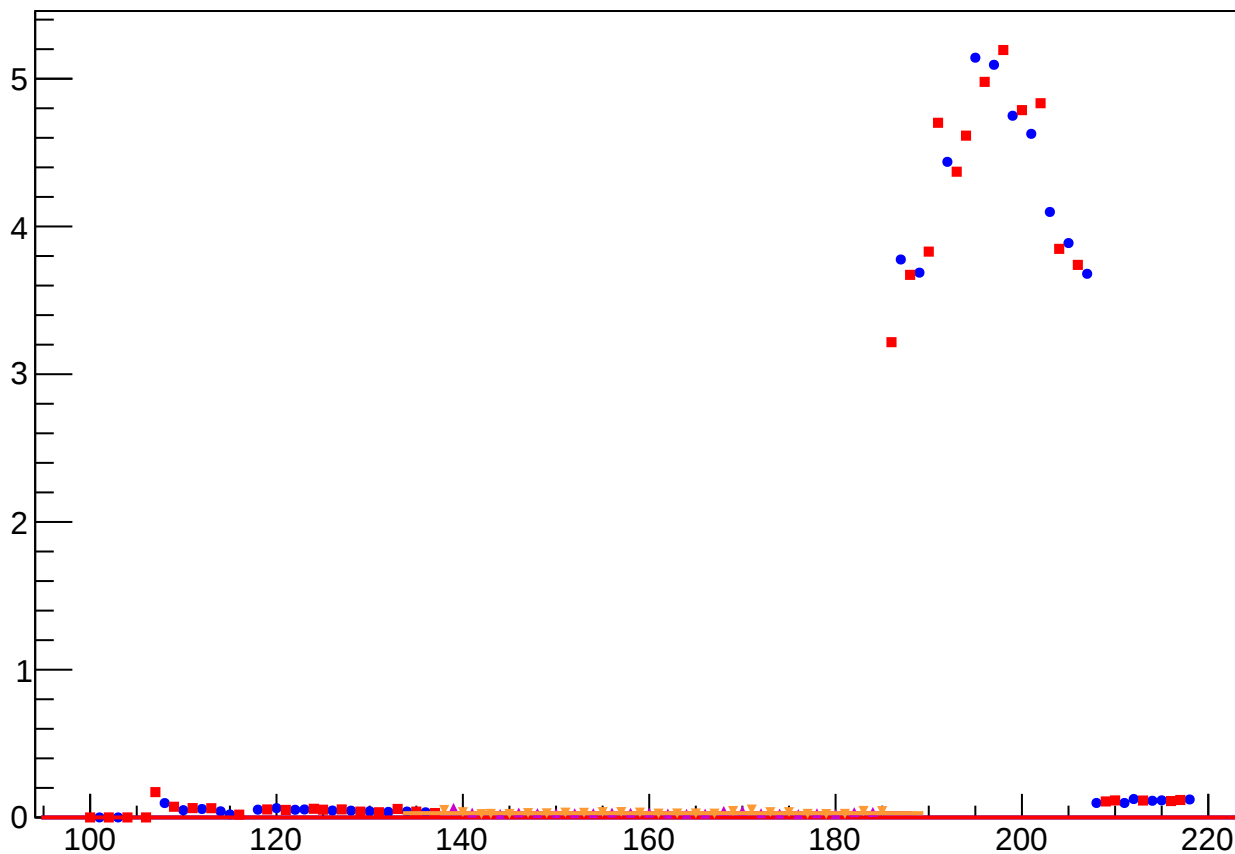
Right: 6.155+/-0.000 χ^2/NDF : 776095639940489.1/47

In: 6.530+/-0.000 χ^2/NDF : 964023611635.8/55

Out: 5.826+/-0.000 χ^2/NDF : 756663311682726.8/60

All: 6.153+/-0.000 χ^2/NDF : 77761900088895.1/104

yield_cav4bX_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 31385310.6/32

Left Out: 0.029+/-0.000 χ^2/NDF :1487017.7/24

Right Out: 0.000+/-0.000 χ^2/NDF : 31909530.0/35

Left In: 0.029+/-0.000 χ^2/NDF :1164030.9/22

Left: 0.029+/-0.000 χ^2/NDF : 2651180.7/47

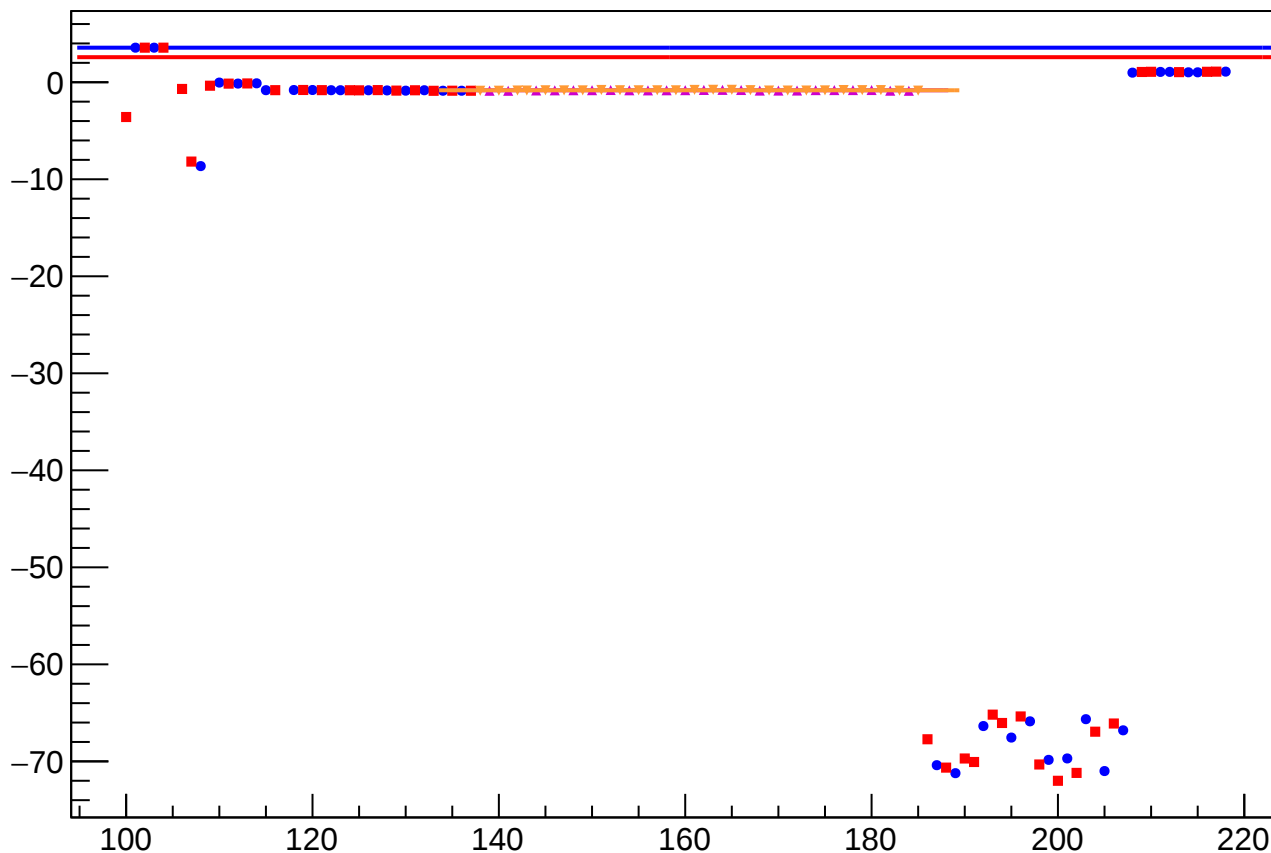
Right: 0.000+/-0.000 χ^2/NDF : 63295134.7/68

In: 0.000+/-0.000 χ^2/NDF :59346046.6/55

Out: 0.000+/-0.000 χ^2/NDF :61784497.3/60

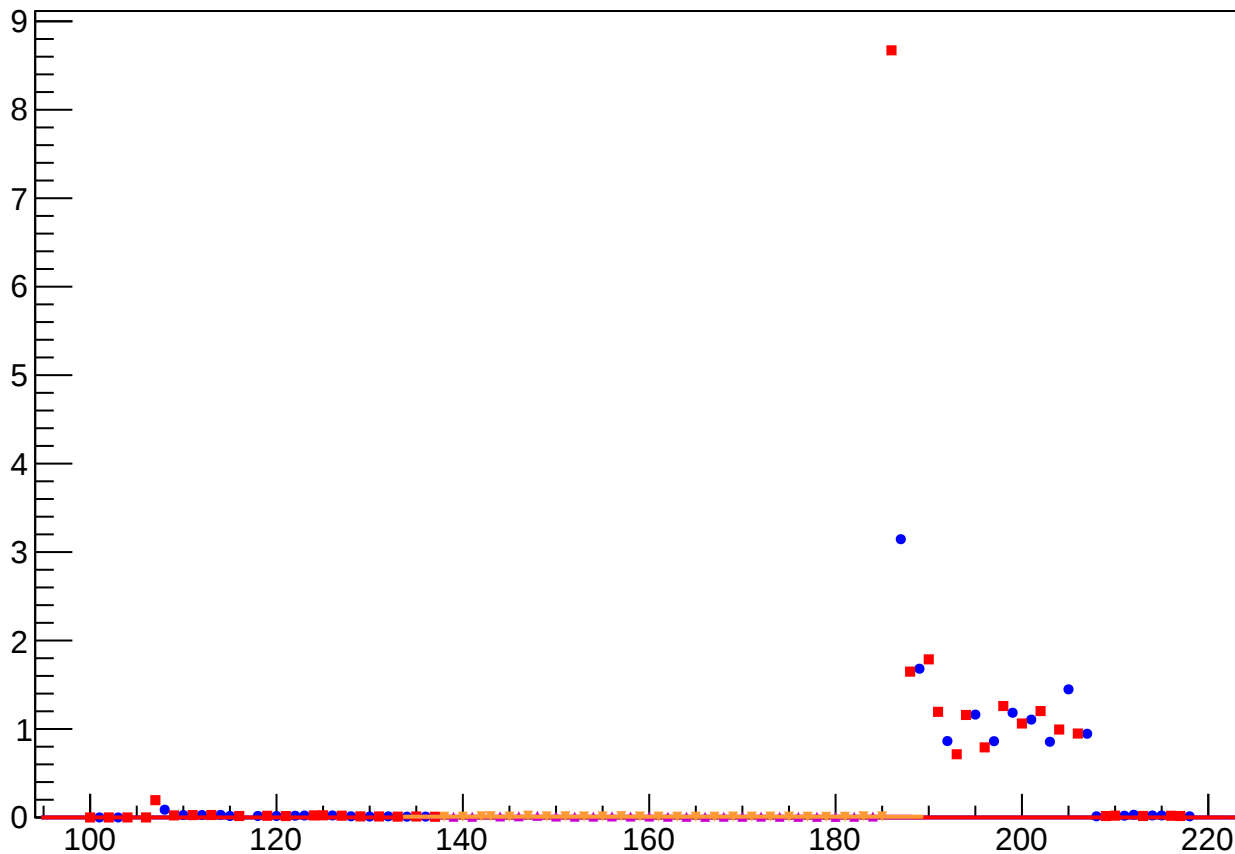
All: 0.000+/-0.000 χ^2/NDF : 121131015.8/116

yield_cav4bY_mean vs Slug, Sign Corrected



Right In: 3.563+/-0.000	χ^2/NDF : 586890710496.4/32	Left: -0.827+/-0.000	χ^2/NDF : 340927693.4/47
Left Out: -0.828+/-0.000	χ^2/NDF : 168178464.8/24	Right: 3.040+/-0.000	χ^2/NDF : 1382406008306463.7
Right Out: 2.583+/-0.000	χ^2/NDF : 1253558719744699.2/35	In: 3.560+/-0.000	χ^2/NDF : 4232442797292.2/55
Left In: -0.827+/-0.000	χ^2/NDF : 172640246.1/22	Out: 2.581+/-0.000	χ^2/NDF : 1255780975615083.8
		All: 3.038+/-0.000	χ^2/NDF : 13880922322996.7

yield_cav4bY_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 28592581.5/32

Left Out: 0.009+/-0.000 χ^2/NDF :1454710.9/24

Right Out: 0.000+/-0.000 χ^2/NDF : 29522635.8/35

Left In: 0.009+/-0.000 χ^2/NDF :1041524.9/22

Left: 0.009+/-0.000 χ^2/NDF : 2502231.5/47

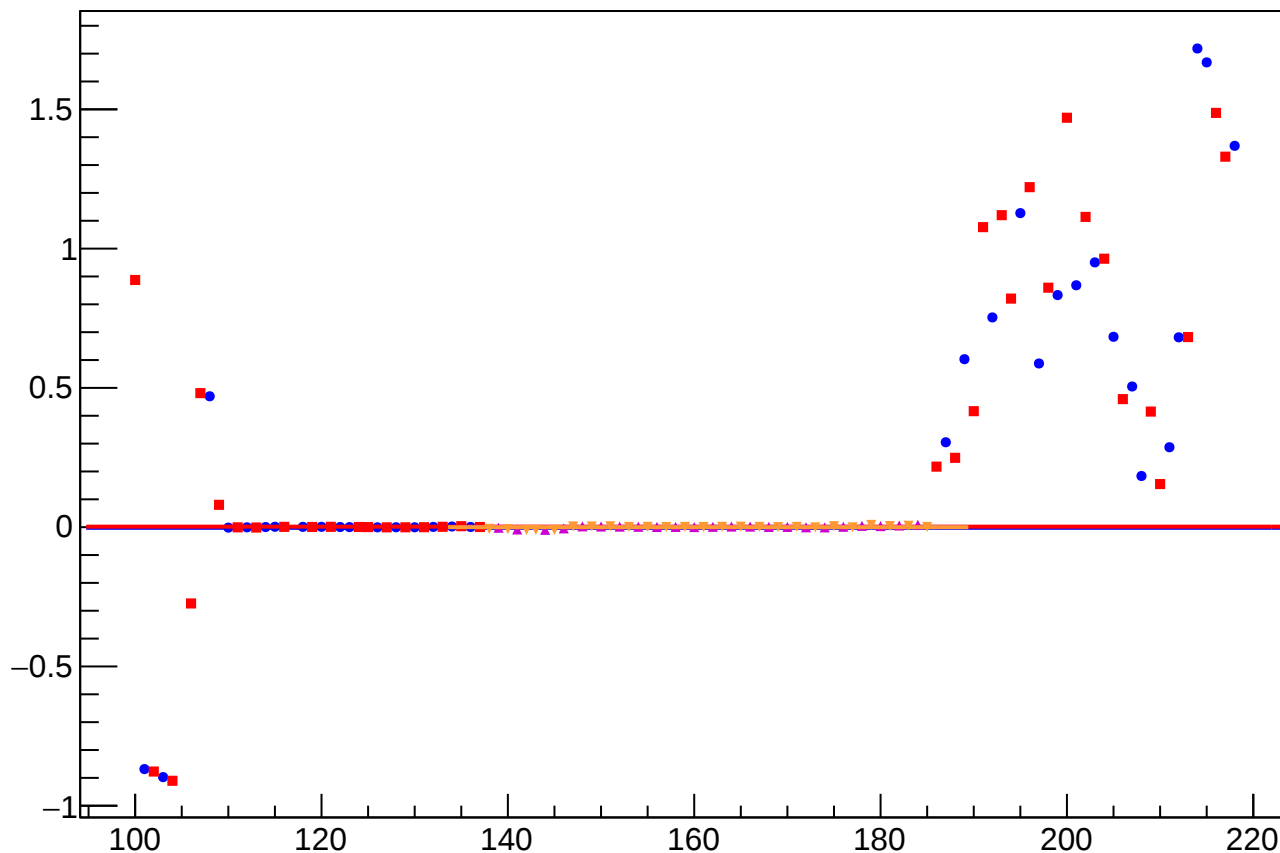
Right: 0.000+/-0.000 χ^2/NDF : 58115580.7/68

In: 0.000+/-0.000 χ^2/NDF :58123401.8/55

Out: 0.000+/-0.000 χ^2/NDF :60936805.0/60

All: 0.000+/-0.000 χ^2/NDF : 119061092.5/116

yield_cav4cX_mean vs Slug, Sign Corrected



Right In: -0.002 ± 0.000

χ^2/NDF : 9798024172.8/32

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 : 12856014144.4/68

Right Out: 0.002 ± 0.000

χ^2/NDF : 3044221276.0/35

In: -0.000 ± 0.000 χ^2/NDF : 9910471158.4/55

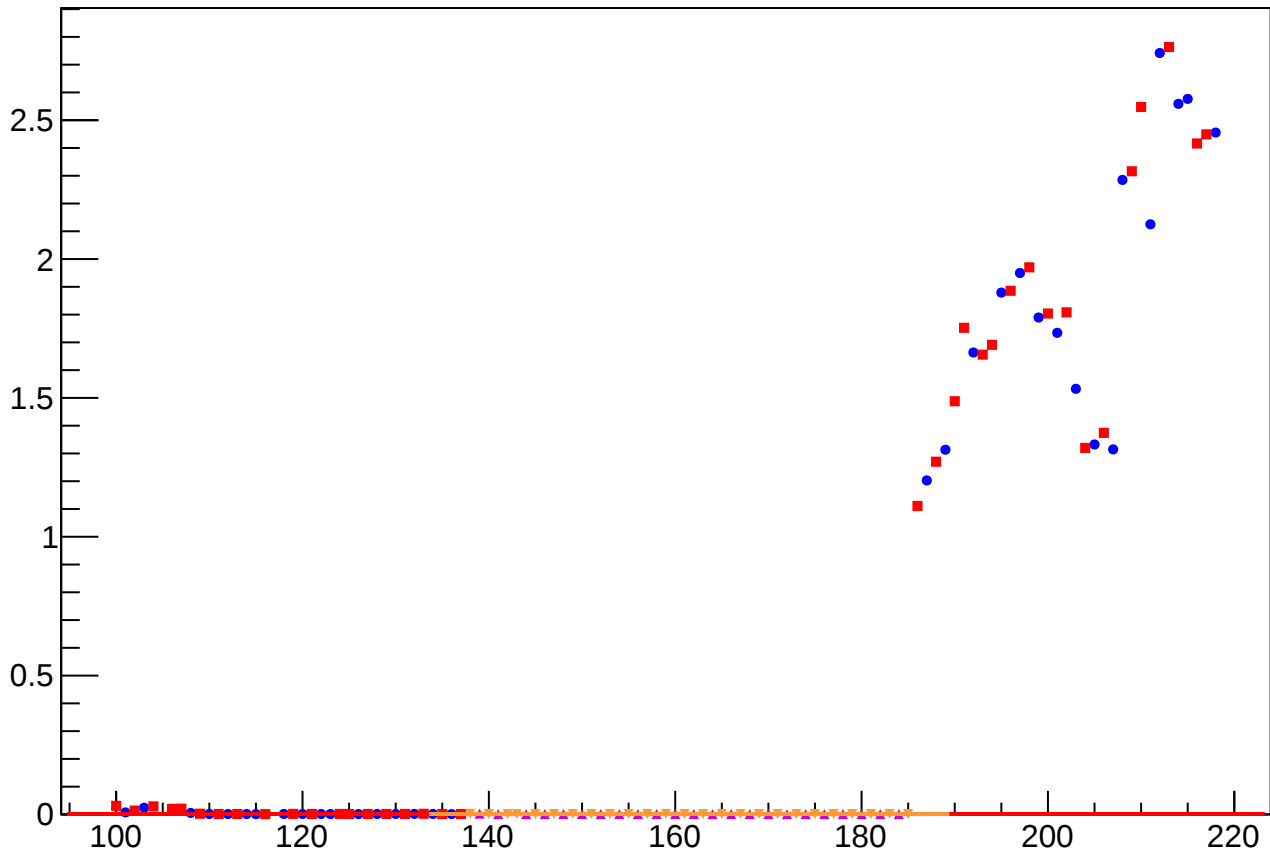
Out: 0.000 ± 0.000 χ^2/NDF : 3200439624.2/60

Left In: 0.001 ± 0.000

χ^2/NDF : 101439617.3/22

All: 0.000 ± 0.000 χ^2/NDF : 13111247742.3/131

yield_cav4cX_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 24267669.8/32

Left Out: 0.001+/-0.000 χ^2/NDF :539817.3/24

Right Out: 0.002+/-0.000 χ^2/NDF : 25558918.3/35

Left In: 0.001+/-0.000 χ^2/NDF :626044.8/22

Left: 0.001+/-0.000 χ^2/NDF : 1169603.9/47

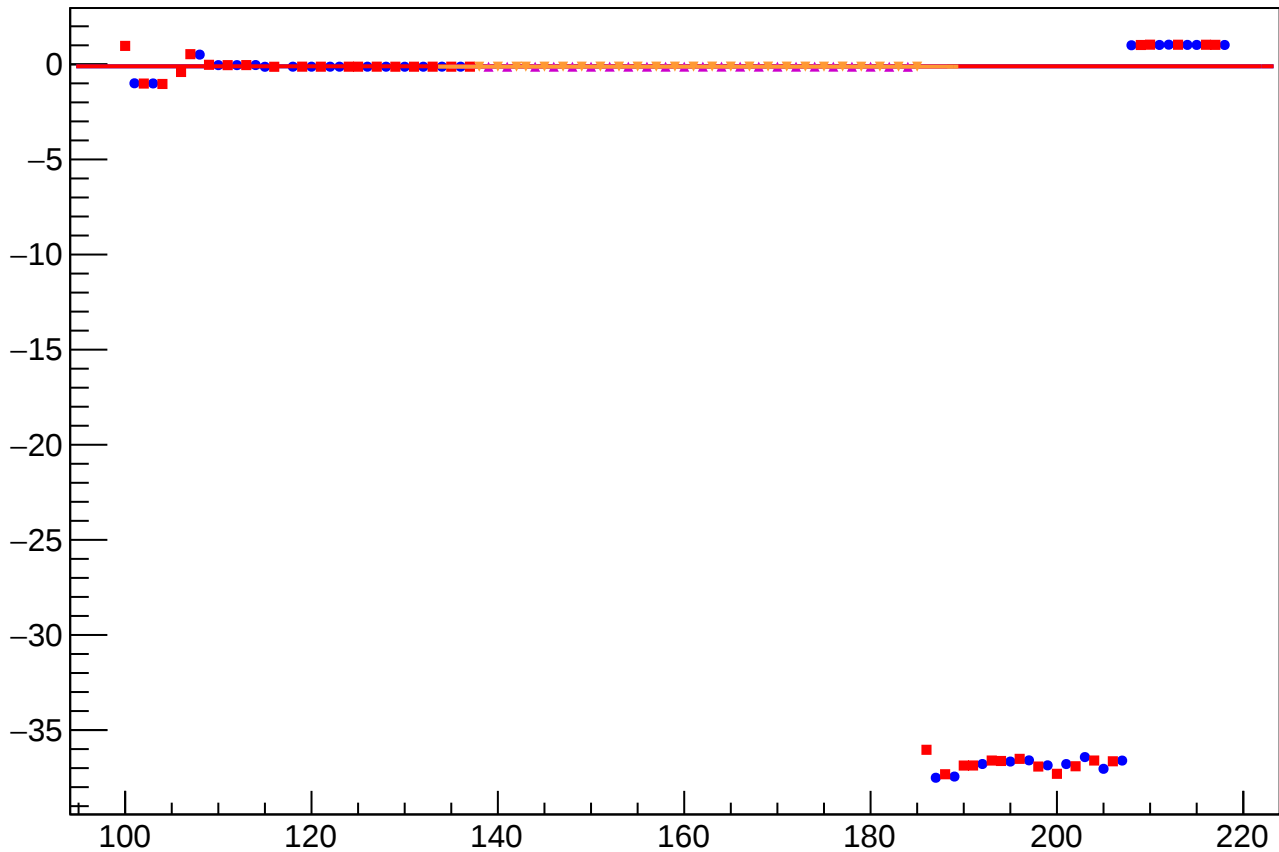
Right: 0.002+/-0.000 χ^2/NDF : 49835086.5/68

In: 0.002+/-0.000 χ^2/NDF :24946289.4/55

Out: 0.002+/-0.000 χ^2/NDF :26239067.6/60

All: 0.002+/-0.000 χ^2/NDF : 51186277.1/116

yield_cav4cY_mean vs Slug, Sign Corrected



Right In: -0.104+/-0.000 χ^2/NDF : 102054775901.4/32

Left Out: -0.121+/-0.000 χ^2/NDF : 58120109.3/24

Right Out: -0.102+/-0.000 χ^2/NDF : 98454035321.0/35

Left In: -0.121+/-0.000 χ^2/NDF : 52113932.9/22

Left: -0.121+/-0.000 χ^2/NDF : 110482905.6/47

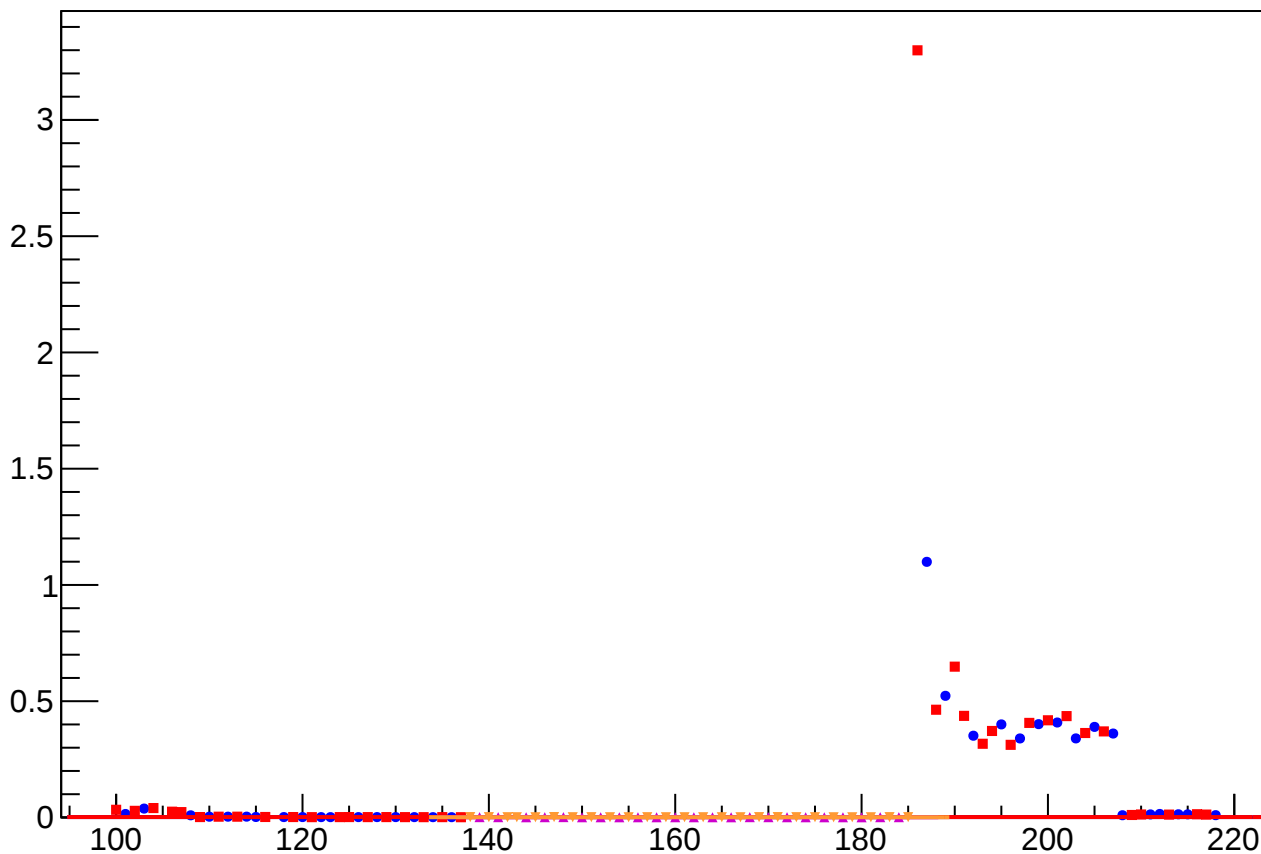
Right: -0.103+/-0.000 χ^2/NDF : 200512176256.1/68

In: -0.119+/-0.000 χ^2/NDF : 102580637696.0/55

Out: -0.119+/-0.000 χ^2/NDF : 99111592628.2/60

All: -0.119+/-0.000 χ^2/NDF : 201692297499.6

yield_cav4cY_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 22302551.0/32

Left Out: 0.001+/-0.000 χ^2/NDF :1363316.8/24

Right Out: 0.002+/-0.000 χ^2/NDF : 23751886.9/35

Left In: 0.001+/-0.000 χ^2/NDF :970801.8/22

Left: 0.001+/-0.000 χ^2/NDF : 2335161.7/47

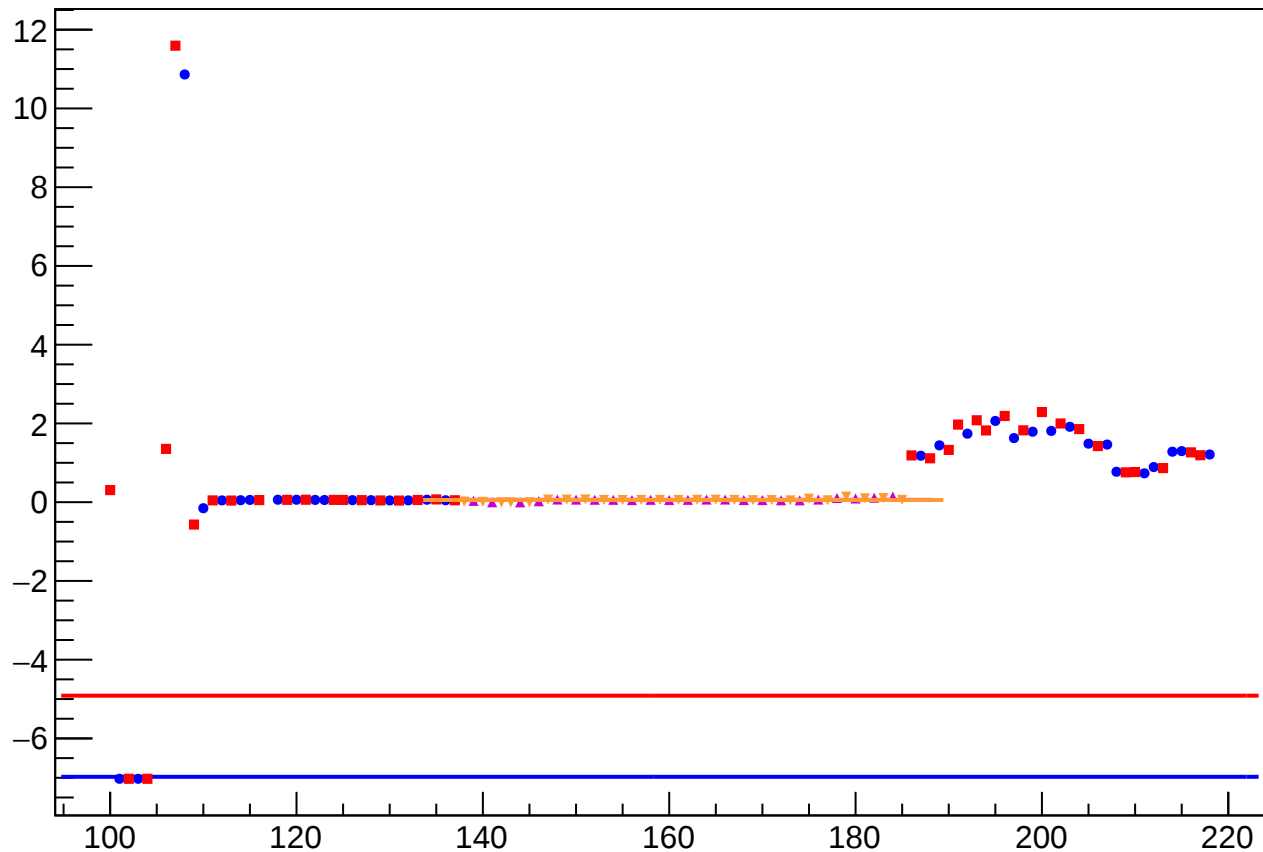
Right: 0.002+/-0.000 χ^2/NDF : 46056218.2/68

In: 0.001+/-0.000 χ^2/NDF :25160024.7/55

Out: 0.001+/-0.000 χ^2/NDF :26893139.5/60

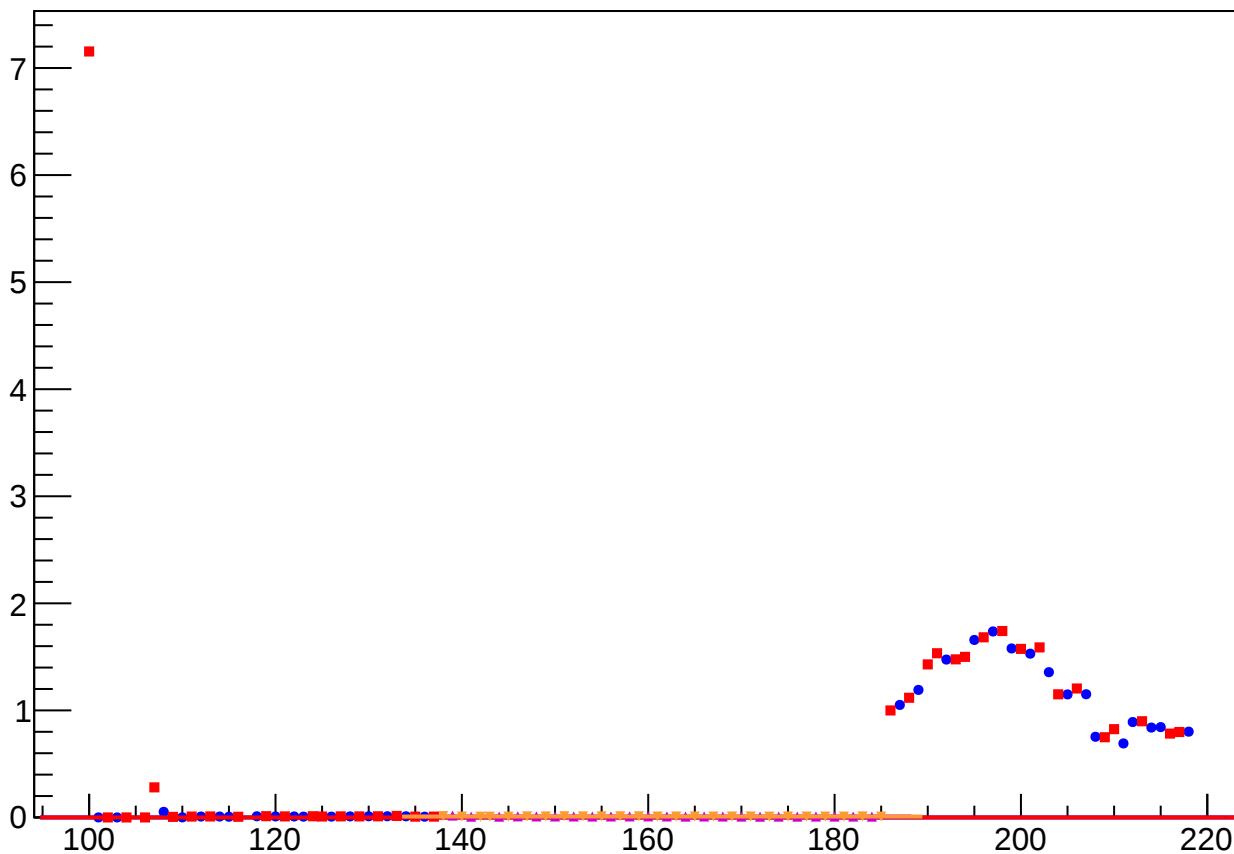
All: 0.001+/-0.000 χ^2/NDF : 52057452.4/116

yield_cav4dX_mean vs Slug, Sign Corrected



Right In: -6.975 ± 0.000 $\chi^2/\text{NDF}: 8798057409850.7/32$ Left: 0.057 ± 0.000 $\chi^2/\text{NDF}: 423736513.4/47$
 Left Out: 0.055 ± 0.000 $\chi^2/\text{NDF}: 243682351.4/24$ Right: -5.900 ± 0.000 $\chi^2/\text{NDF}: 430334290685861.1$
 Right Out: -4.914 ± 0.000 $\chi^2/\text{NDF}: 365353025618118.5/35$ In: -6.926 ± 0.000 $\chi^2/\text{NDF}: 17553569545233.9/55$
 Left In: 0.059 ± 0.000 $\chi^2/\text{NDF}: 178541521.9/22$ Out: -4.879 ± 0.000 $\chi^2/\text{NDF}: 370165586226514.0$
 All: -5.858 ± 0.000 $\chi^2/\text{NDF}: 4435295732624$

yield_cav4dX_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 30720869.7/32

Left Out: 0.009+/-0.000 χ^2/NDF : 514432.8/24

Right Out: 0.000+/-0.000 χ^2/NDF : 31348925.4/35

Left In: 0.009+/-0.000 χ^2/NDF : 602517.2/22

Left: 0.009+/-0.000 χ^2/NDF : 1122225.0/47

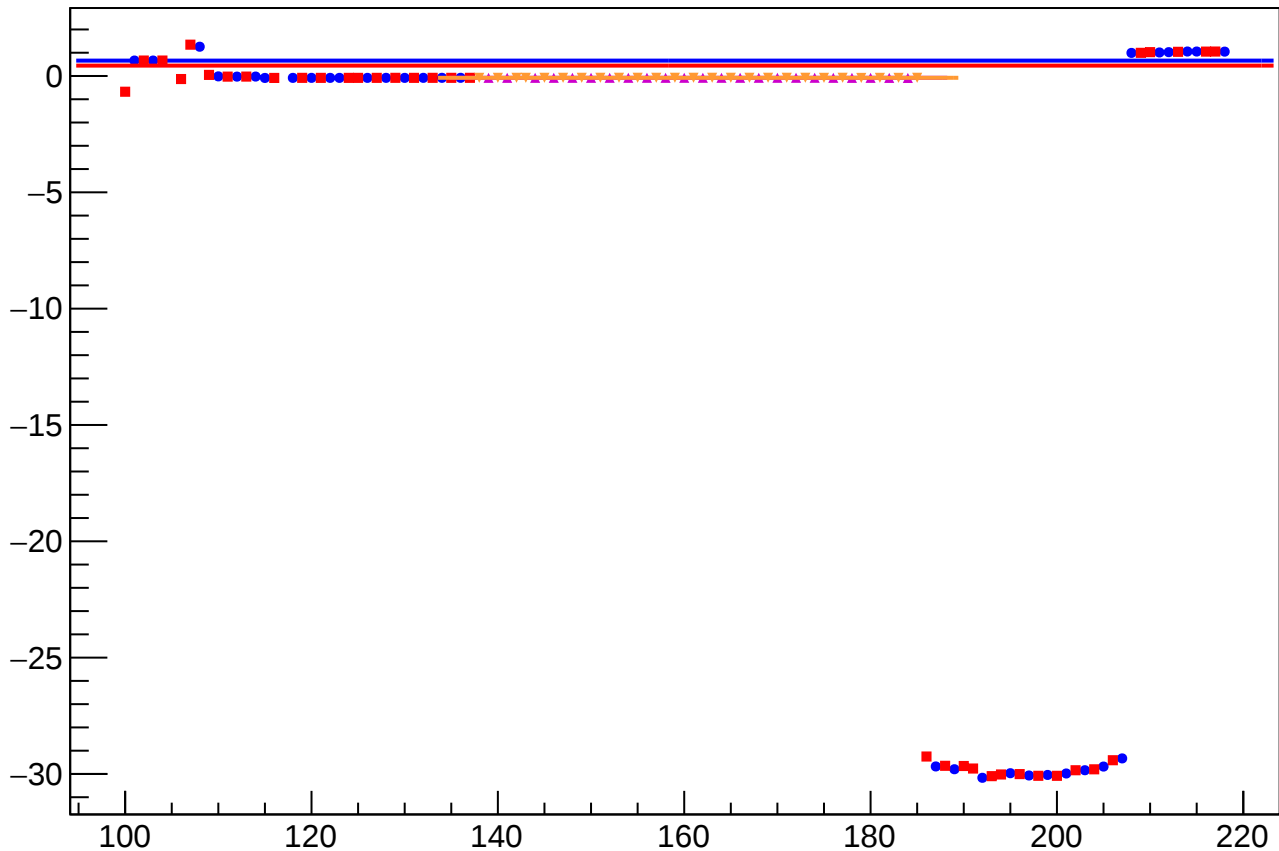
Right: 0.000+/-0.000 χ^2/NDF : 62070154.8/68

In: 0.000+/-0.000 χ^2/NDF : 58137348.4/55

Out: 0.000+/-0.000 χ^2/NDF : 60291832.6/60

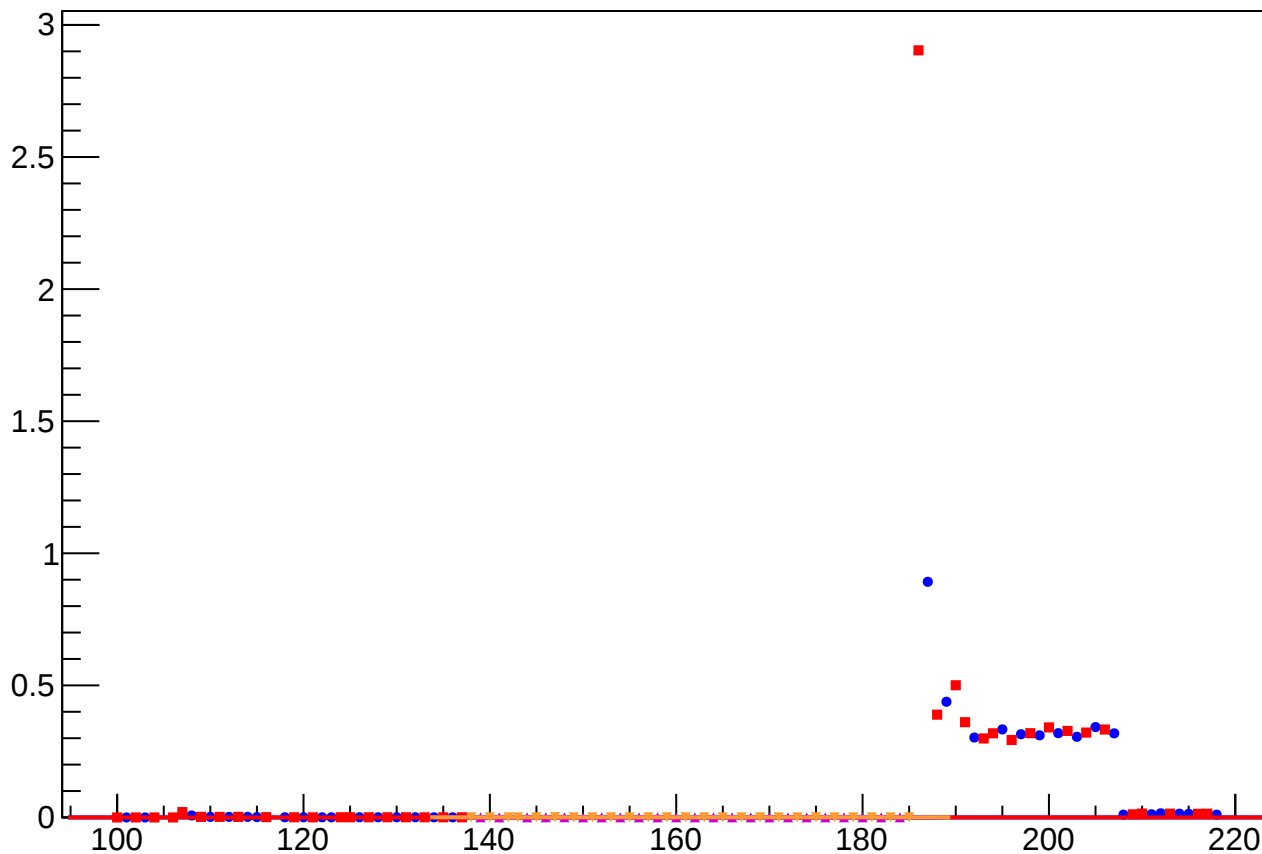
All: 0.000+/-0.000 χ^2/NDF : 118429659.3/116

yield_cav4dY_mean vs Slug, Sign Corrected



Right In: 0.661+/-0.000	χ^2/NDF : 5722771761786.8/32	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 : 474133370800516.8
Right Out: 0.446+/-0.000	χ^2/NDF : 405496889821538.8/35	In: 0.647+/-0.000	χ^2/NDF : 33763735451952.7/55
Left In: -0.077+/-0.000	χ^2/NDF : 110762924.1/22	Out: 0.436+/-0.000	χ^2/NDF : 420658191366174.1/6
		All: 0.537+/-0.000	χ^2/NDF : 51597829021282

yield_cav4dY_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 31936366.9/32

Left Out: 0.001+/-0.000 χ^2/NDF :465981.8/24

Right Out: 0.000+/-0.000 χ^2/NDF : 31869072.4/35

Left In: 0.001+/-0.000 χ^2/NDF :355509.7/22

Left: 0.001+/-0.000 χ^2/NDF : 822503.5/47

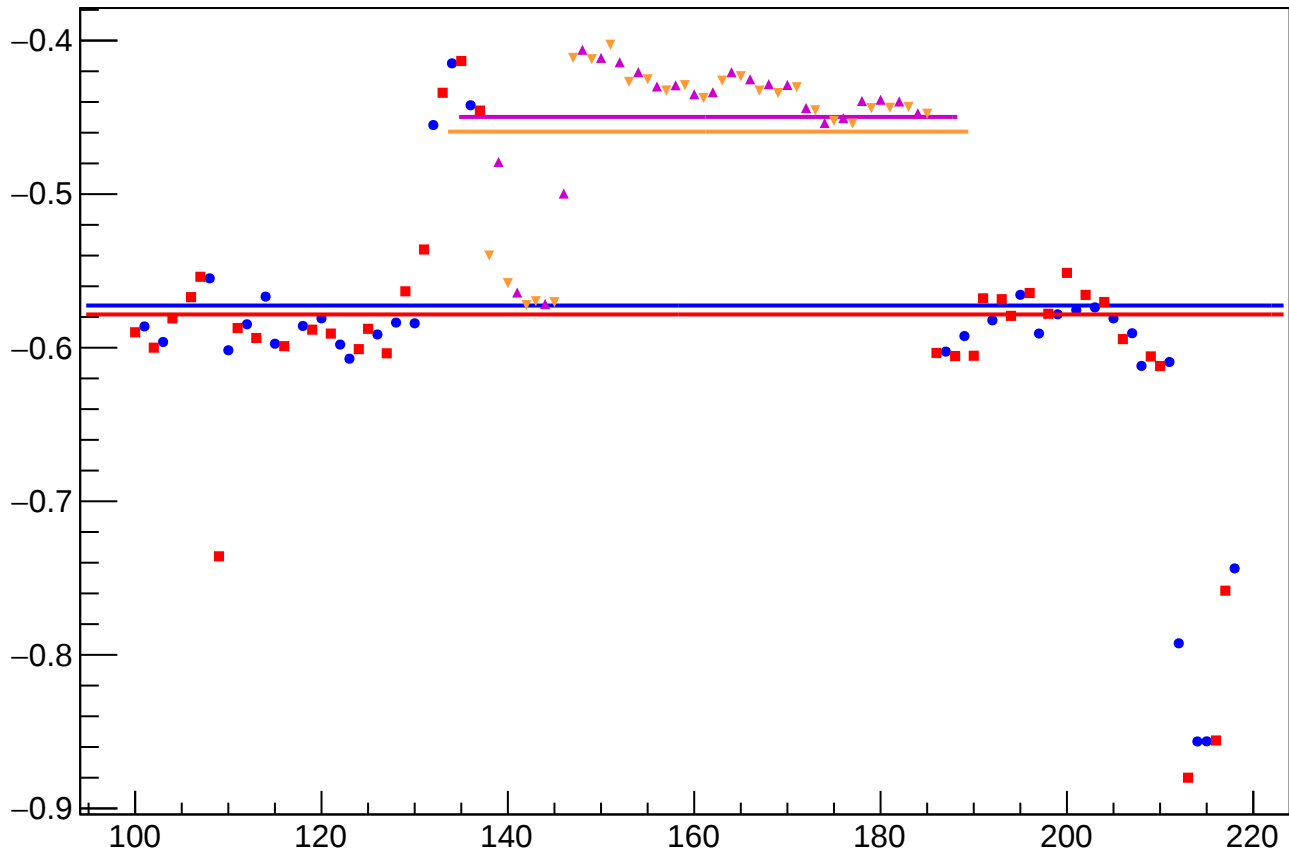
Right: 0.000+/-0.000 χ^2/NDF : 63805473.0/68

In: 0.000+/-0.000 χ^2/NDF :62654679.8/55

Out: 0.000+/-0.000 χ^2/NDF :64479508.6/60

All: 0.000+/-0.000 χ^2/NDF : 127134594.6/116

yield_bpm4aX_mean vs Slug, Sign Corrected



Right In: -0.573+/-0.000 χ^2/NDF : 114473760.8/32

Left Out: -0.459+/-0.000 χ^2/NDF : 113602161.0/24

Right Out: -0.578+/-0.000 χ^2/NDF : 119783039.8/35

Left In: -0.450+/-0.000 χ^2/NDF : 76117957.8/22

Left: -0.455+/-0.000 χ^2/NDF : 191493218.8/47

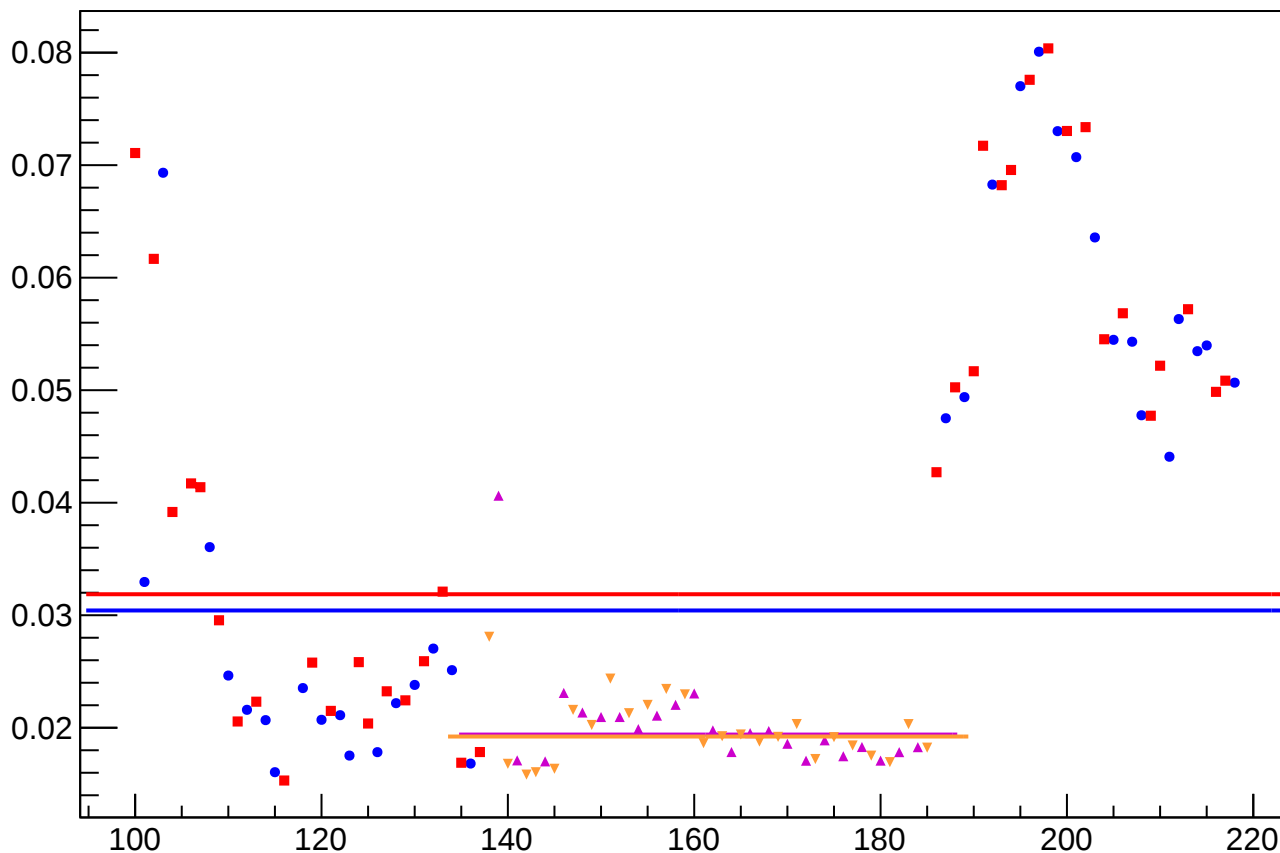
Right: -0.575+/-0.000 χ^2/NDF : 234485180.8/68

In: -0.483+/-0.000 χ^2/NDF : 343189870.4/55

Out: -0.489+/-0.000 χ^2/NDF : 374039217.0/60

All: -0.486+/-0.000 χ^2/NDF : 718020447.1/111

yield_bpm4aX_rms vs Slug, Sign Corrected



Right In: 0.030 $\pm$ 0.000 χ^2 /NDF: 7788090.8/32

Left Out: 0.019 $\pm$ 0.000 χ^2 /NDF:501711.6/24

Right Out: 0.032 $\pm$ 0.000 χ^2 /NDF: 7583289.4/35

Left In: 0.019 $\pm$ 0.000 χ^2 /NDF:626443.5/22

Left: 0.019 $\pm$ 0.000 χ^2 /NDF: 1129330.7/47

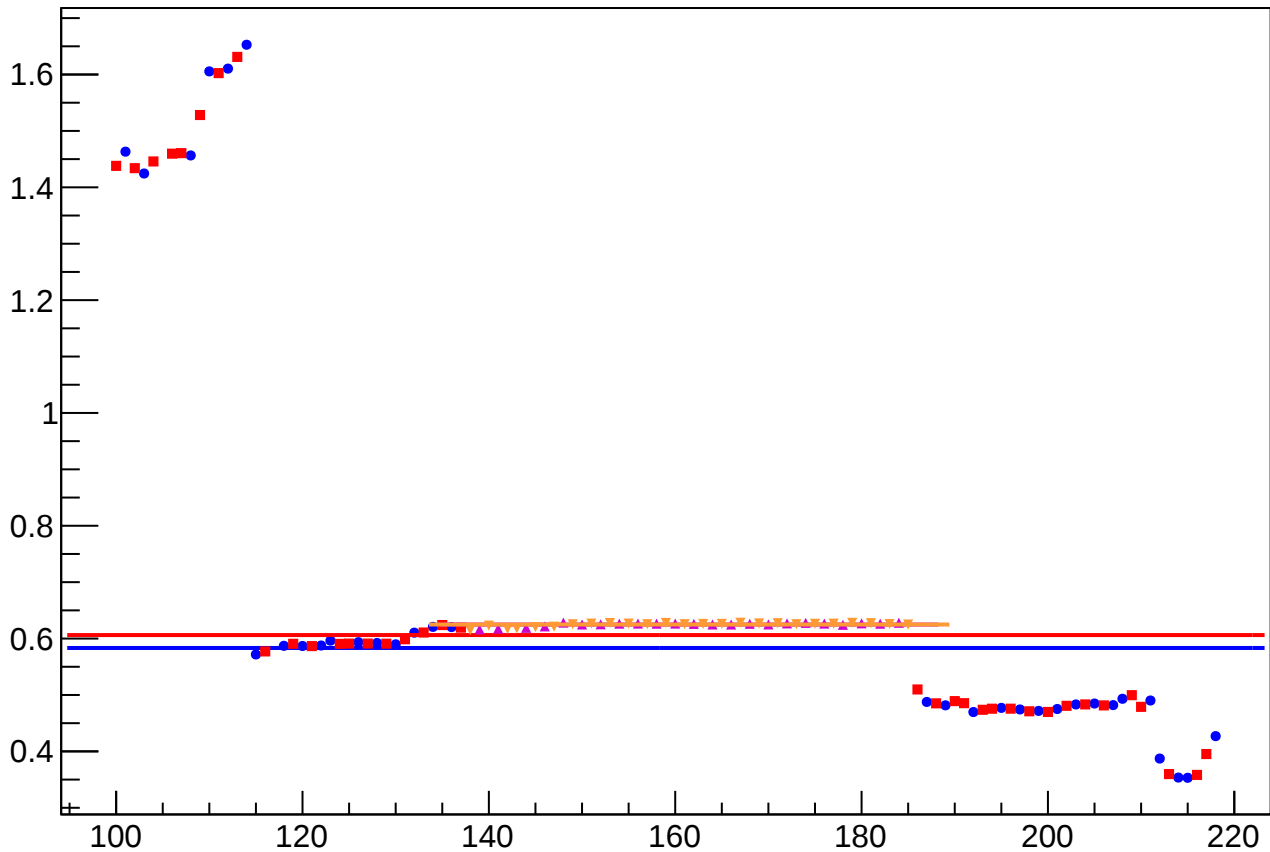
Right: 0.031 $\pm$ 0.000 χ^2 /NDF: 15399556.3/68

In: 0.022 $\pm$ 0.000 χ^2 /NDF:10876025.3/55

Out: 0.022 $\pm$ 0.000 χ^2 /NDF:11260503.4/60

All: 0.022 $\pm$ 0.000 χ^2 /NDF: 22136699.9/116

yield_bpm4aY_mean vs Slug, Sign Corrected



Right In: 0.583 $\pm$ 0.000 χ^2/NDF : 5586823035.9/32

Left Out: 0.625 $\pm$ 0.000 χ^2/NDF :1445169.1/24

Right Out: 0.606 $\pm$ 0.000 χ^2/NDF : 6580628874.0/35

Left In: 0.625 $\pm$ 0.000 χ^2/NDF :1143954.1/22

Left: 0.625 $\pm$ 0.000 χ^2/NDF : 2589565.7/47

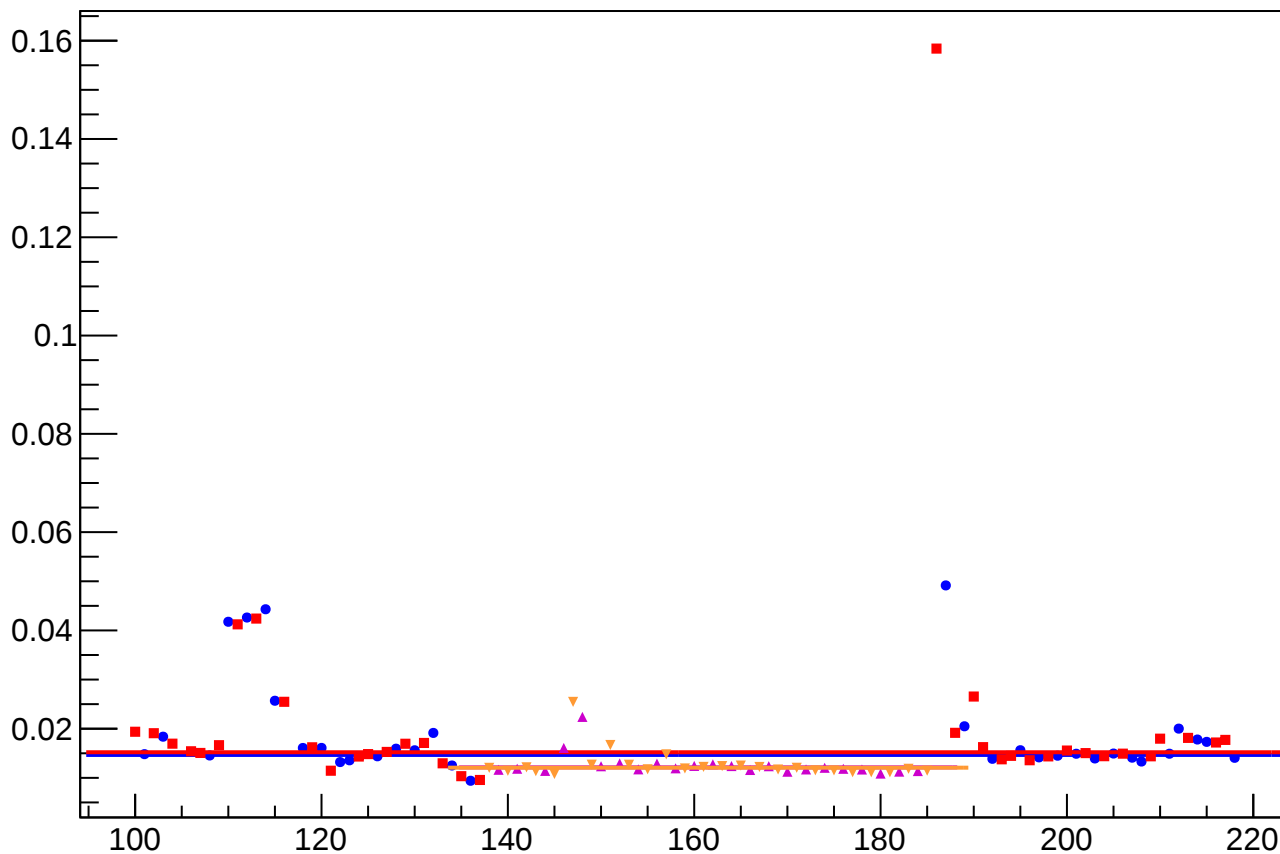
Right: 0.594 $\pm$ 0.000 χ^2/NDF : 12186880447.7/68

In: 0.608 $\pm$ 0.000 χ^2/NDF :5666524698.5/55

Out: 0.618 $\pm$ 0.000 χ^2/NDF :6597889208.1/60

All: 0.613 $\pm$ 0.000 χ^2/NDF : 12273627718.4/1

yield_bpm4aY_rms vs Slug, Sign Corrected



Right In: 0.015+/-0.000 χ^2/NDF : 1845486.2/32

Left Out: 0.012+/-0.000 χ^2/NDF : 657199.9/24

Right Out: 0.015+/-0.000 χ^2/NDF : 2214490.9/35

Left In: 0.012+/-0.000 χ^2/NDF : 488363.6/22

Left: 0.012+/-0.000 χ^2/NDF : 1146061.0/47

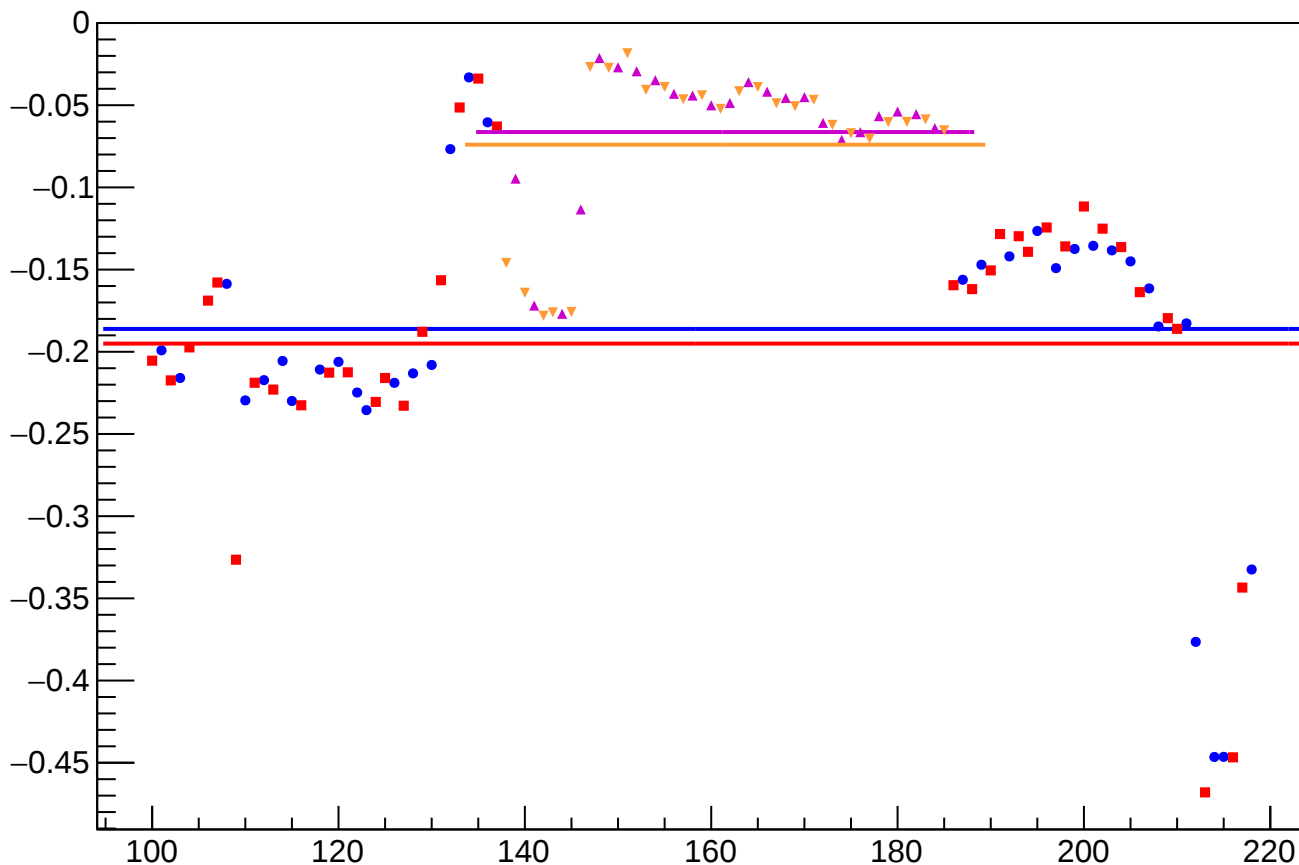
Right: 0.015+/-0.000 χ^2/NDF : 4081922.9/68

In: 0.013+/-0.000 χ^2/NDF : 2918324.8/55

Out: 0.013+/-0.000 χ^2/NDF : 3763113.2/60

All: 0.013+/-0.000 χ^2/NDF : 6682943.2/116

yield_bpm4eX_mean vs Slug, Sign Corrected



Right In: -0.186 ± 0.000 $\chi^2/\text{NDF}: 127699386.1/32$

Left Out: -0.074 ± 0.000 $\chi^2/\text{NDF}: 107676601.9/24$

Right Out: -0.195 ± 0.000 $\chi^2/\text{NDF}: 134428486.4/35$

Left In: -0.066 ± 0.000 $\chi^2/\text{NDF}: 76243051.8/22$

Left: -0.070 ± 0.000 $\chi^2/\text{NDF}: 185076997.5/47$

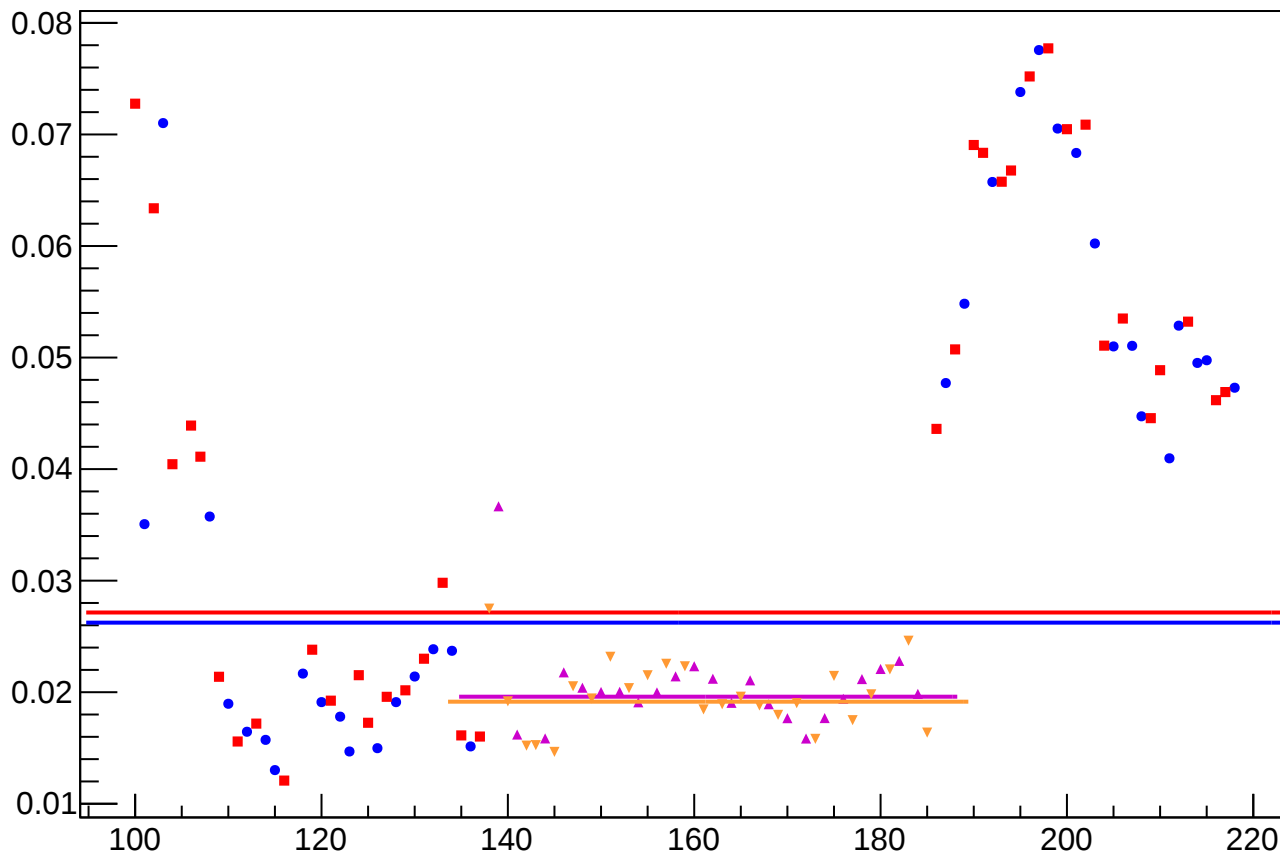
Right: -0.190 ± 0.000 $\chi^2/\text{NDF}: 262820668.8/68$

In: -0.105 ± 0.000 $\chi^2/\text{NDF}: 376251609.8/55$

Out: -0.109 ± 0.000 $\chi^2/\text{NDF}: 418449307.9/60$

All: -0.107 ± 0.000 $\chi^2/\text{NDF}: 795245877.1/111$

yield_bpm4eX_rms vs Slug, Sign Corrected



Right In: 0.026 $\pm$ 0.000 χ^2 /NDF: 9130494.8/32

Left Out: 0.019 $\pm$ 0.000 χ^2 /NDF:641277.0/24

Right Out: 0.027 $\pm$ 0.000 χ^2 /NDF: 9280764.7/35

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

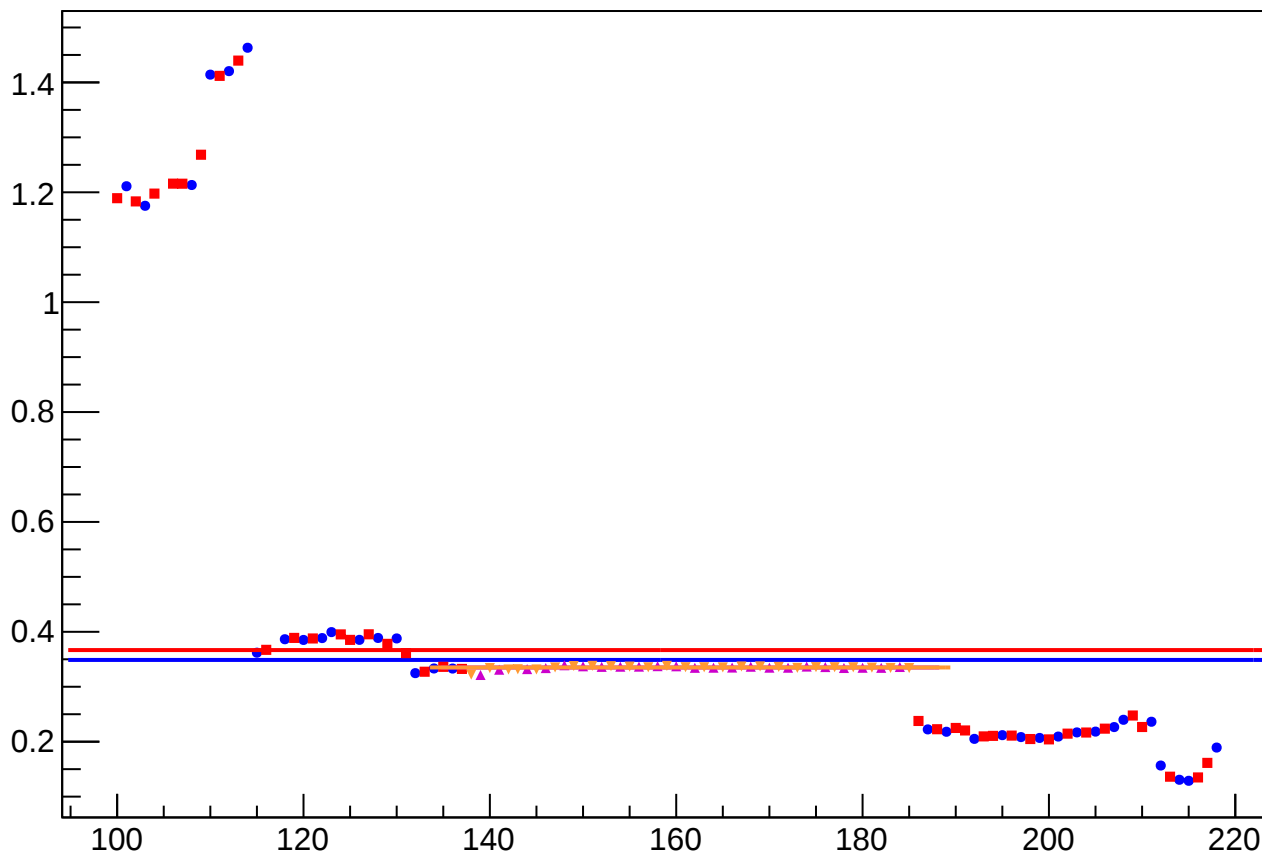
Right: 0.027 $\pm$ 0.000 χ^2 /NDF: 18425639.4/68

In: 0.022 $\pm$ 0.000 χ^2 /NDF:10812440.8/55

Out: 0.021 $\pm$ 0.000 χ^2 /NDF:11462205.0/60

All: 0.022 $\pm$ 0.000 χ^2 /NDF: 22278270.2/116

yield_bpm4eY_mean vs Slug, Sign Corrected



Right In: 0.349 $\pm$ 0.000 χ^2 /NDF: 8045769490.3/32

Left Out: 0.335 $\pm$ 0.000 χ^2 /NDF:1154310.3/24

Right Out: 0.367 $\pm$ 0.000 χ^2 /NDF: 9071387429.7/35

Left In: 0.335 $\pm$ 0.000 χ^2 /NDF:1202194.8/22

Left: 0.335 $\pm$ 0.000 χ^2 /NDF: 2356931.1/47

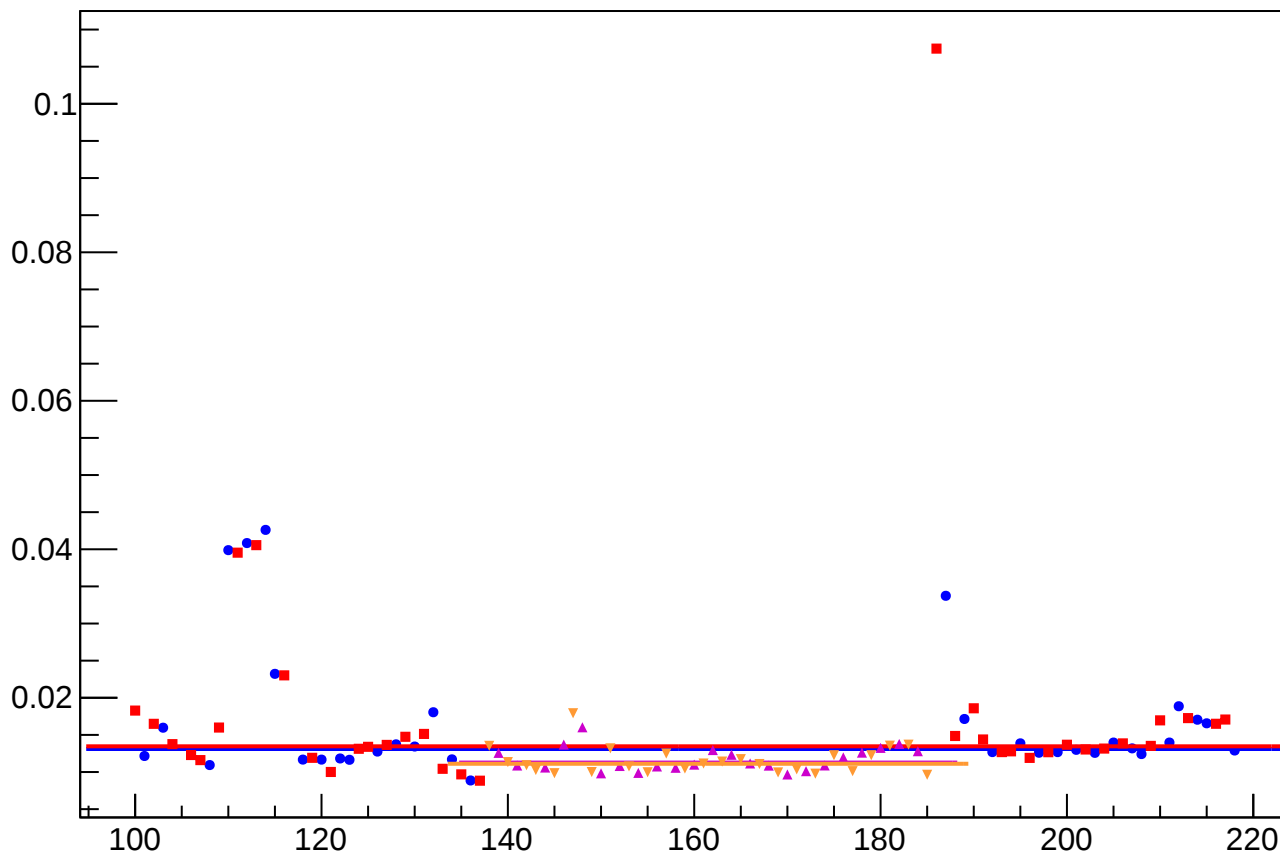
Right: 0.358 $\pm$ 0.000 χ^2 /NDF: 17132246285.1/68

In: 0.341 $\pm$ 0.000 χ^2 /NDF:8057442786.7/55

Out: 0.348 $\pm$ 0.000 χ^2 /NDF:9128327518.1/60

All: 0.344 $\pm$ 0.000 χ^2 /NDF: 17190890149.9/139

yield_bpm4eY_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 1827546.3/32

Left Out: 0.011+/-0.000 χ^2/NDF : 607532.0/24

Right Out: 0.013+/-0.000 χ^2/NDF : 2213576.8/35

Left In: 0.011+/-0.000 χ^2/NDF : 502455.5/22

Left: 0.011+/-0.000 χ^2/NDF : 1113465.5/47

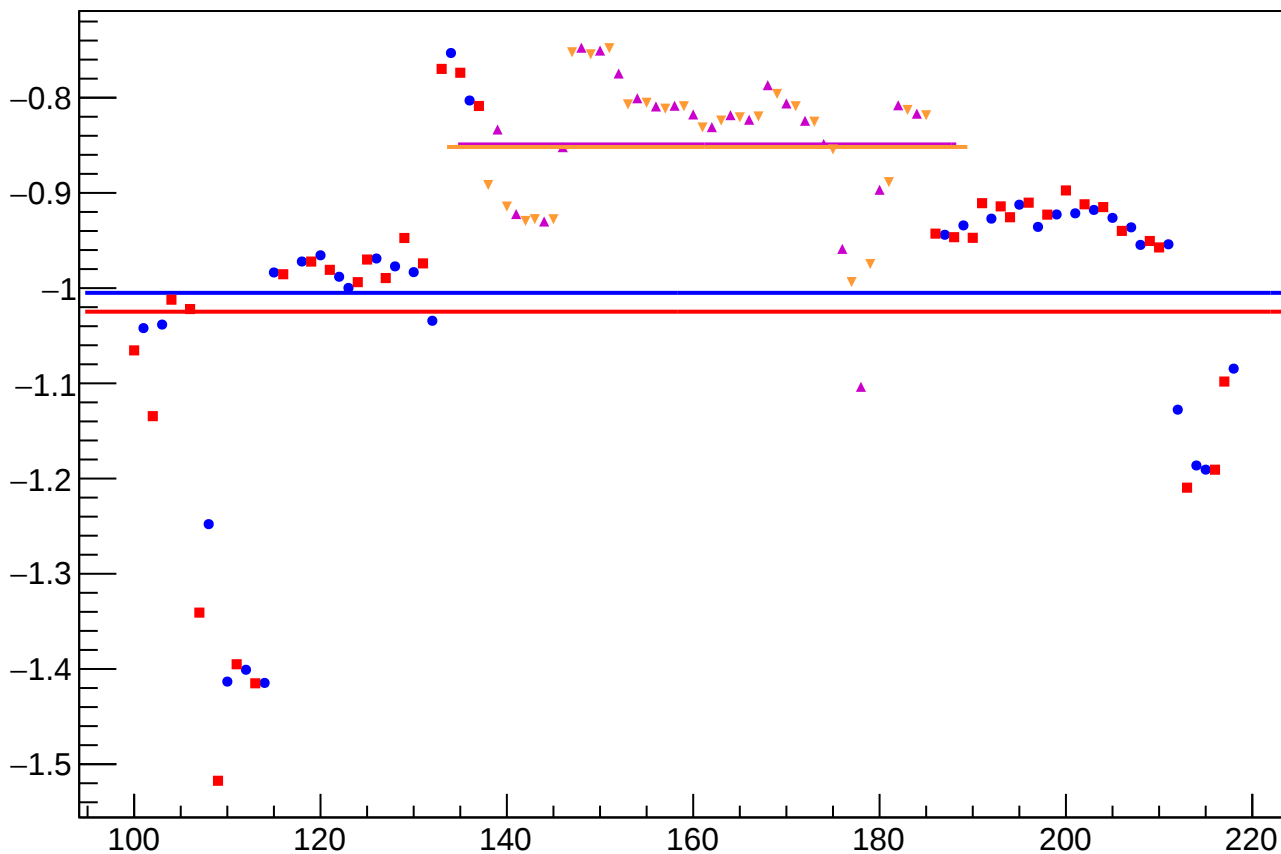
Right: 0.013+/-0.000 χ^2/NDF : 4053297.3/68

In: 0.012+/-0.000 χ^2/NDF : 2698515.6/55

Out: 0.012+/-0.000 χ^2/NDF : 3435686.8/60

All: 0.012+/-0.000 χ^2/NDF : 6134234.7/116

yield_bpm4acX_mean vs Slug, Sign Corrected



Right In: -1.005+/-0.000 χ^2/NDF : 429220680.3/32

Left Out: -0.852+/-0.000 χ^2/NDF : 189103962.4/24

Right Out: -1.025+/-0.000 χ^2/NDF : 578106824.7/35

Left In: -0.849+/-0.000 χ^2/NDF : 256391274.4/22

Left: -0.850+/-0.000 χ^2/NDF : 445636655.2/47

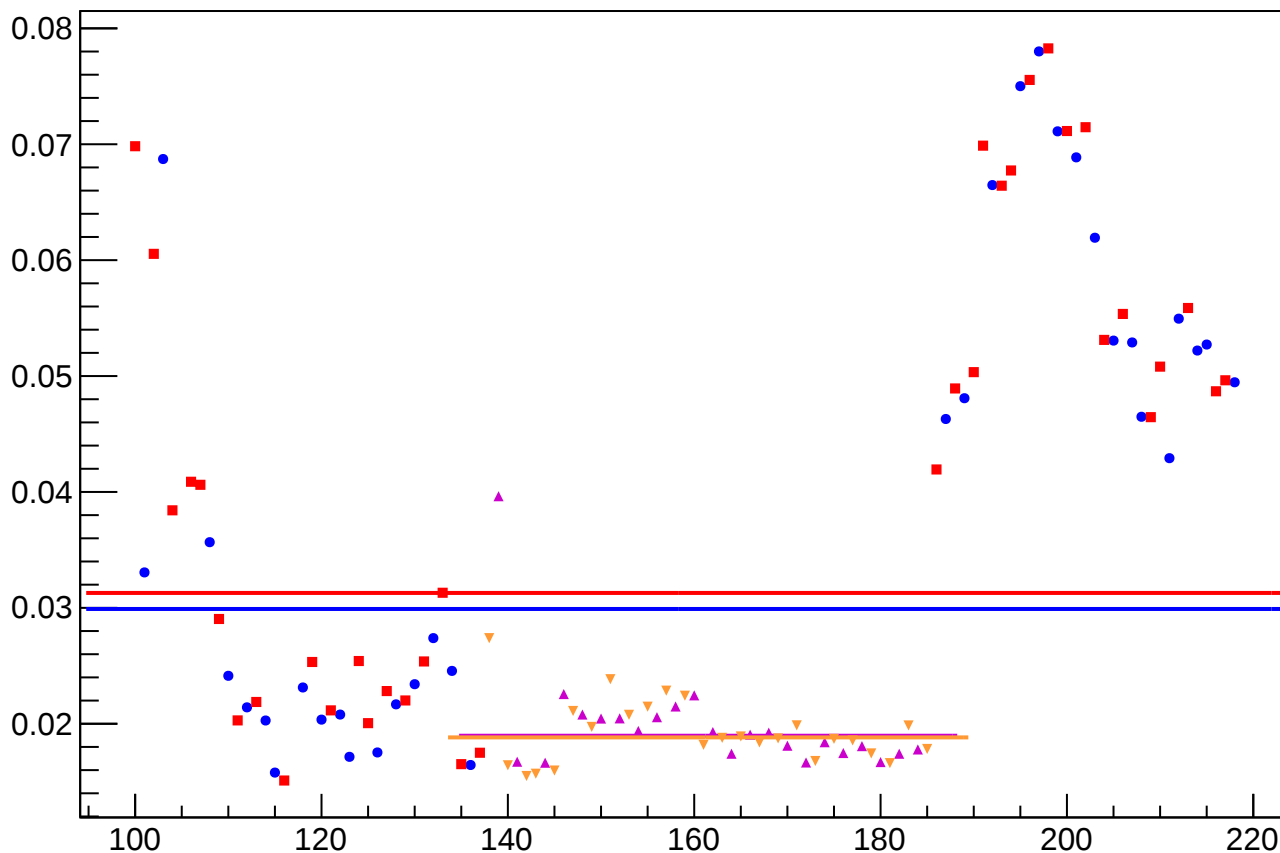
Right: -1.015+/-0.000 χ^2/NDF : 1010087530.0/68

In: -0.891+/-0.000 χ^2/NDF : 941281842.8/55

Out: -0.894+/-0.000 χ^2/NDF : 1076325833.3/60

All: -0.893+/-0.000 χ^2/NDF : 2017864407.2/1

yield_bpm4acX_rms vs Slug, Sign Corrected



Right In: 0.030+/-0.000 χ^2/NDF : 7718273.6/32

Left Out: 0.019+/-0.000 χ^2/NDF : 490509.4/24

Right Out: 0.031+/-0.000 χ^2/NDF : 7497379.3/35

Left In: 0.019+/-0.000 χ^2/NDF : 615173.8/22

Left: 0.019+/-0.000 χ^2/NDF : 1106521.0/47

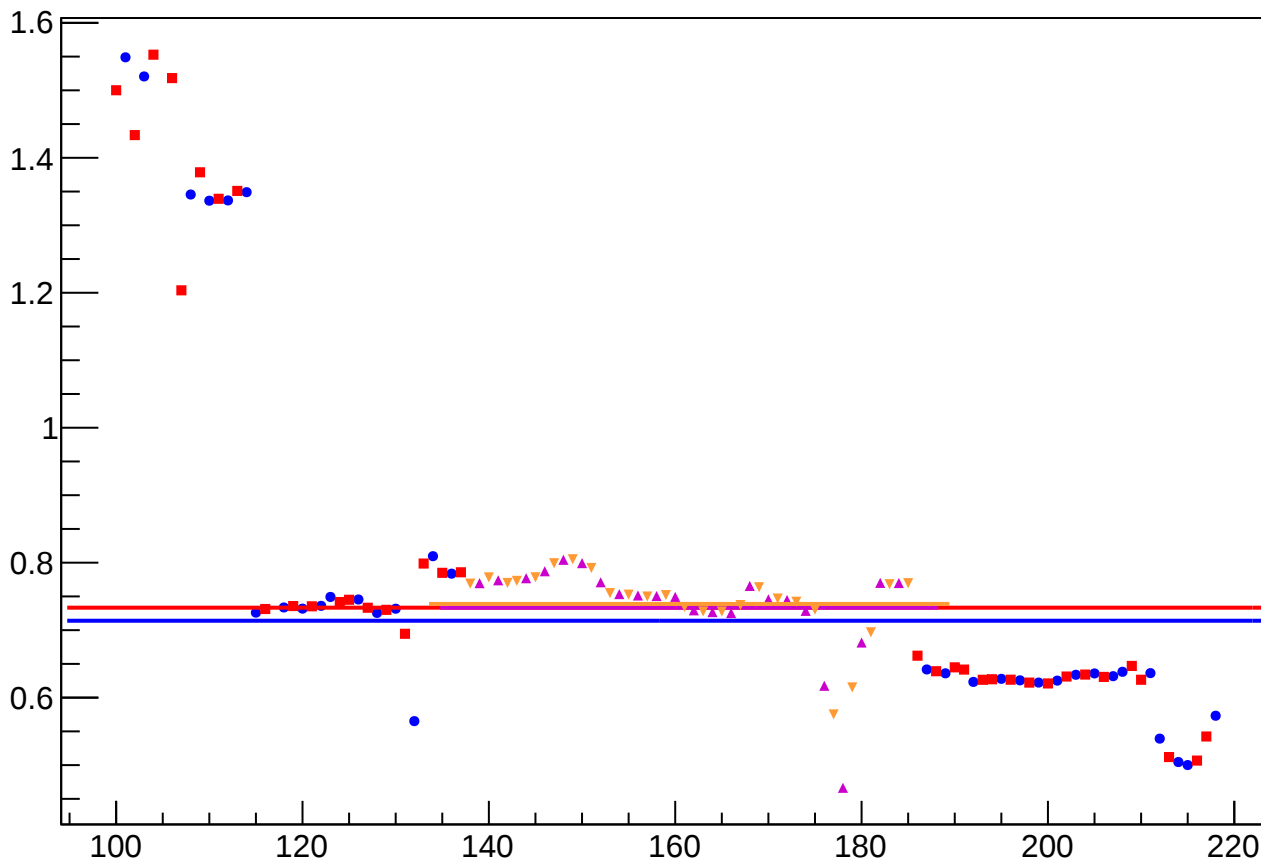
Right: 0.031+/-0.000 χ^2/NDF : 15242564.8/68

In: 0.022+/-0.000 χ^2/NDF : 10851325.4/55

Out: 0.022+/-0.000 χ^2/NDF : 11196417.2/60

All: 0.022+/-0.000 χ^2/NDF : 22047808.4/116

yield_bpm4acY_mean vs Slug, Sign Corrected



Right In: 0.714+/-0.000 χ^2/NDF : 3901389468.2/32

Left Out: 0.739+/-0.000 χ^2/NDF : 333013236.5/24

Right Out: 0.733+/-0.000 χ^2/NDF : 4184112416.1/35

Left In: 0.733+/-0.000 χ^2/NDF : 569611347.7/22

Left: 0.736+/-0.000 χ^2/NDF : 904456968.5/47

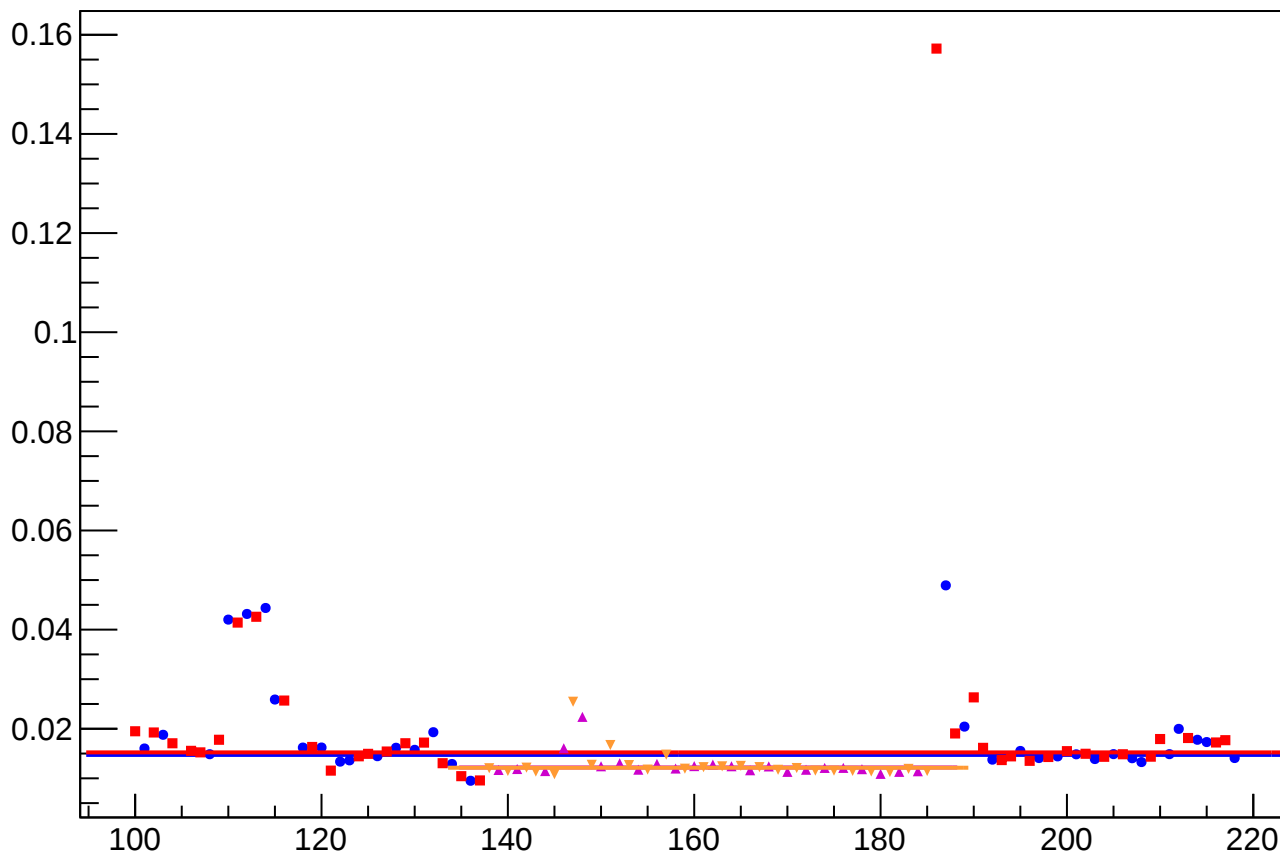
Right: 0.723+/-0.000 χ^2/NDF : 8099332443.4/68

In: 0.725+/-0.000 χ^2/NDF : 4487773296.4/55

Out: 0.737+/-0.000 χ^2/NDF : 4518496418.8/60

All: 0.731+/-0.000 χ^2/NDF : 9018401542.4/11

yield_bpm4acY_rms vs Slug, Sign Corrected



Right In: 0.015+/-0.000 χ^2/NDF : 1840097.6/32

Left Out: 0.012+/-0.000 χ^2/NDF : 637986.2/24

Right Out: 0.015+/-0.000 χ^2/NDF : 2215433.4/35

Left In: 0.012+/-0.000 χ^2/NDF : 481830.1/22

Left: 0.012+/-0.000 χ^2/NDF : 1120125.6/47

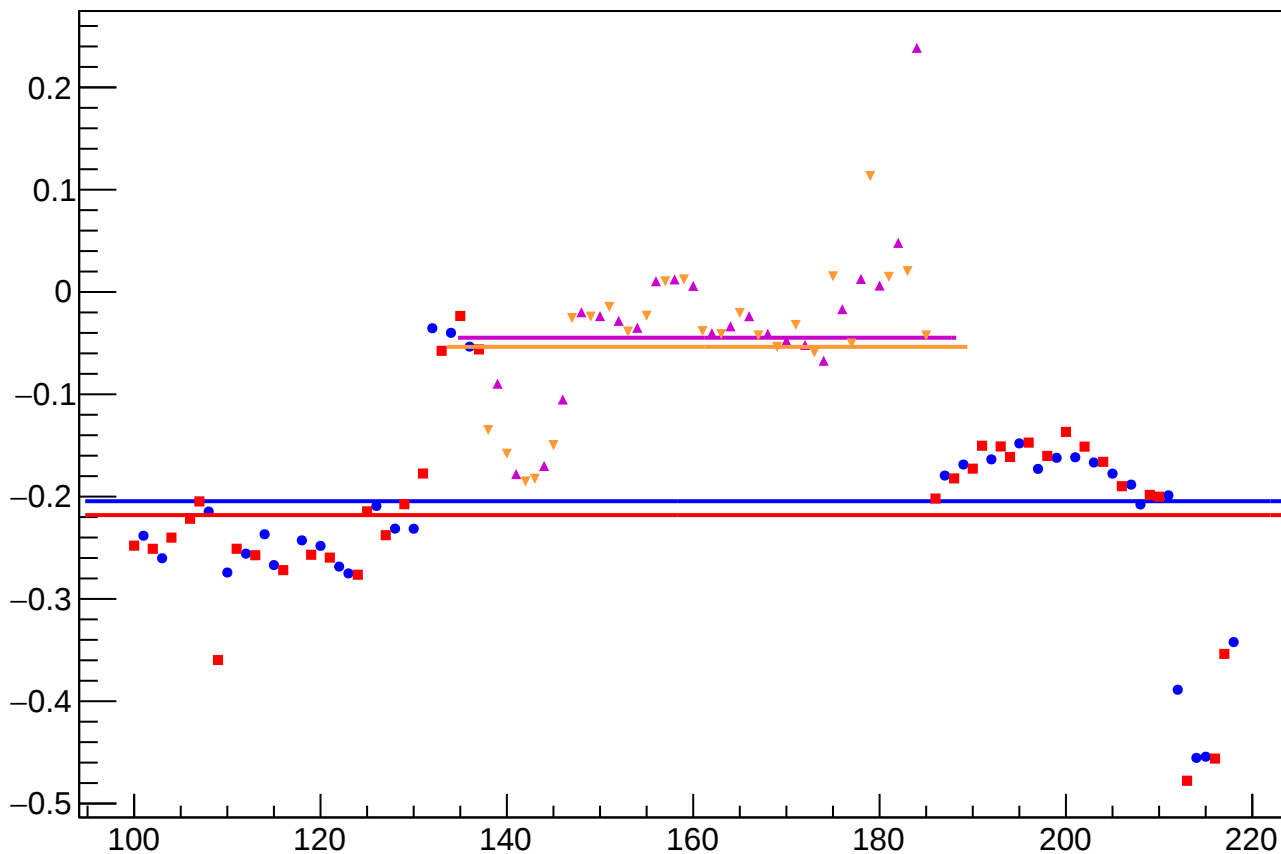
Right: 0.015+/-0.000 χ^2/NDF : 4074560.0/68

In: 0.013+/-0.000 χ^2/NDF : 2902785.9/55

Out: 0.013+/-0.000 χ^2/NDF : 3712895.7/60

All: 0.013+/-0.000 χ^2/NDF : 6617222.3/116

yield_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -0.204 ± 0.000 $\chi^2/\text{NDF}: 160407795.0/32$

Left Out: -0.054 ± 0.000 $\chi^2/\text{NDF}: 167834173.6/24$

Right Out: -0.218 ± 0.000 $\chi^2/\text{NDF}: 156246703.8/35$

Left In: -0.045 ± 0.000 $\chi^2/\text{NDF}: 127192425.2/22$

Left: -0.049 ± 0.000 $\chi^2/\text{NDF}: 296566503.6/47$

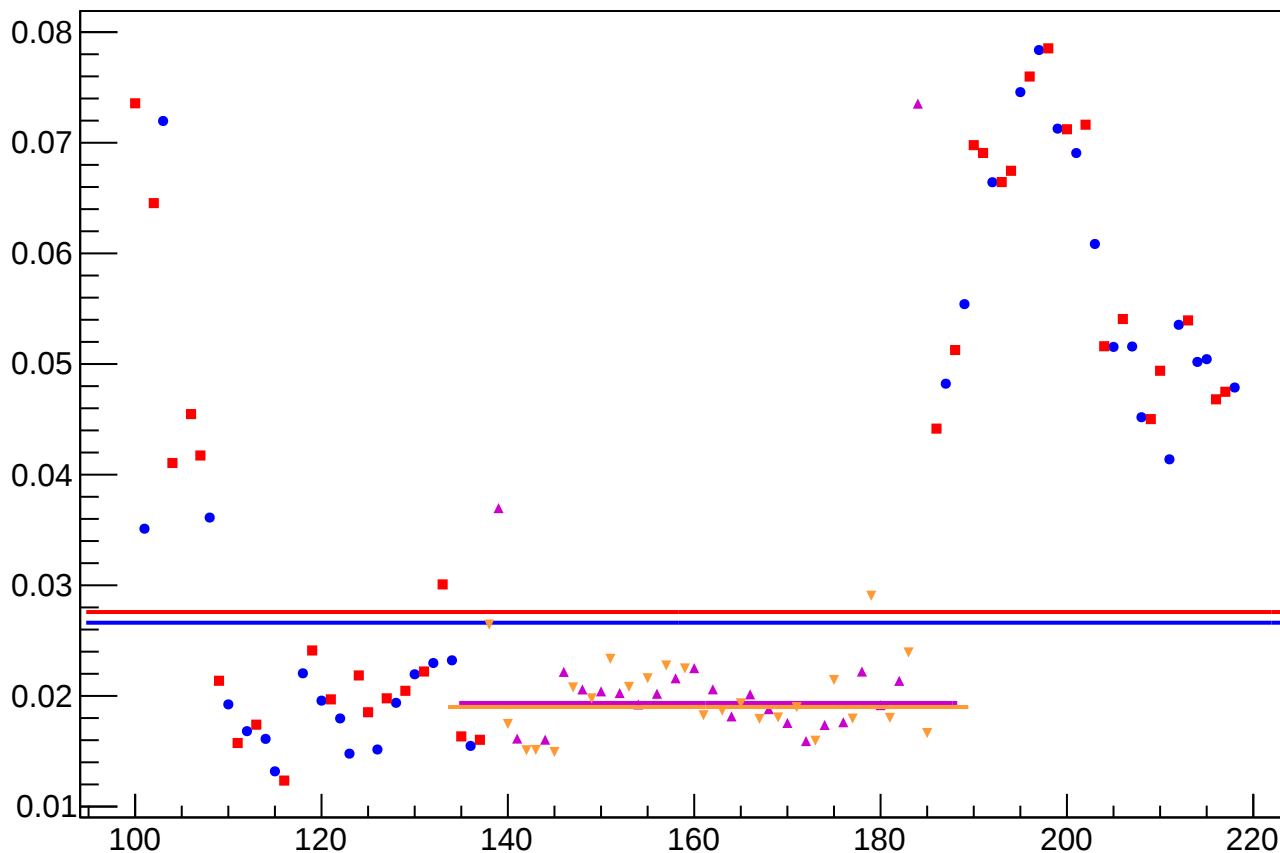
Right: -0.211 ± 0.000 $\chi^2/\text{NDF}: 318211098.3/68$

In: -0.096 ± 0.000 $\chi^2/\text{NDF}: 588220518.9/55$

Out: -0.101 ± 0.000 $\chi^2/\text{NDF}: 641252301.4/60$

All: -0.099 ± 0.000 $\chi^2/\text{NDF}: 1230359890.5/1$

yield_bpm4ecX_rms vs Slug, Sign Corrected



Right In: 0.027+/-0.000 χ^2/NDF : 9065116.9/32

Left Out: 0.019+/-0.000 χ^2/NDF : 700229.7/24

Right Out: 0.028+/-0.000 χ^2/NDF : 9219473.2/35

Left In: 0.019+/-0.000 χ^2/NDF : 858216.8/22

Left: 0.019+/-0.000 χ^2/NDF : 1563699.1/47

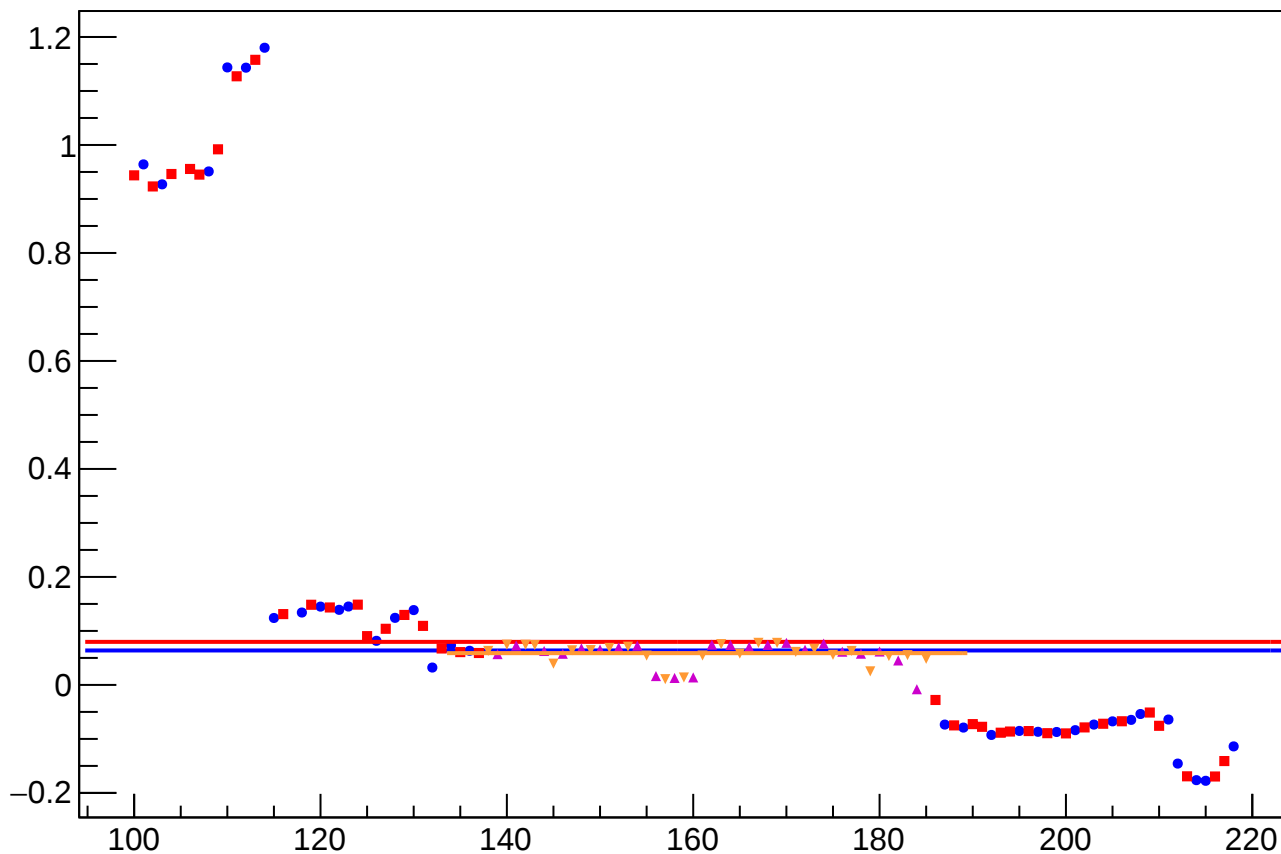
Right: 0.027+/-0.000 χ^2/NDF : 18300364.8/68

In: 0.022+/-0.000 χ^2/NDF : 11162416.9/55

Out: 0.021+/-0.000 χ^2/NDF : 11650463.8/60

All: 0.022+/-0.000 χ^2/NDF : 22814924.4/116

yield_bpm4ecY_mean vs Slug, Sign Corrected



Right In: 0.064+/-0.000 χ^2/NDF : 8792643596.7/32

Left Out: 0.059+/-0.000 χ^2/NDF : 46821236.8/24

Right Out: 0.080+/-0.000 χ^2/NDF : 9645648795.8/35

Left In: 0.059+/-0.000 χ^2/NDF : 58518655.0/22

Left: 0.059+/-0.000 χ^2/NDF : 105343775.2/47

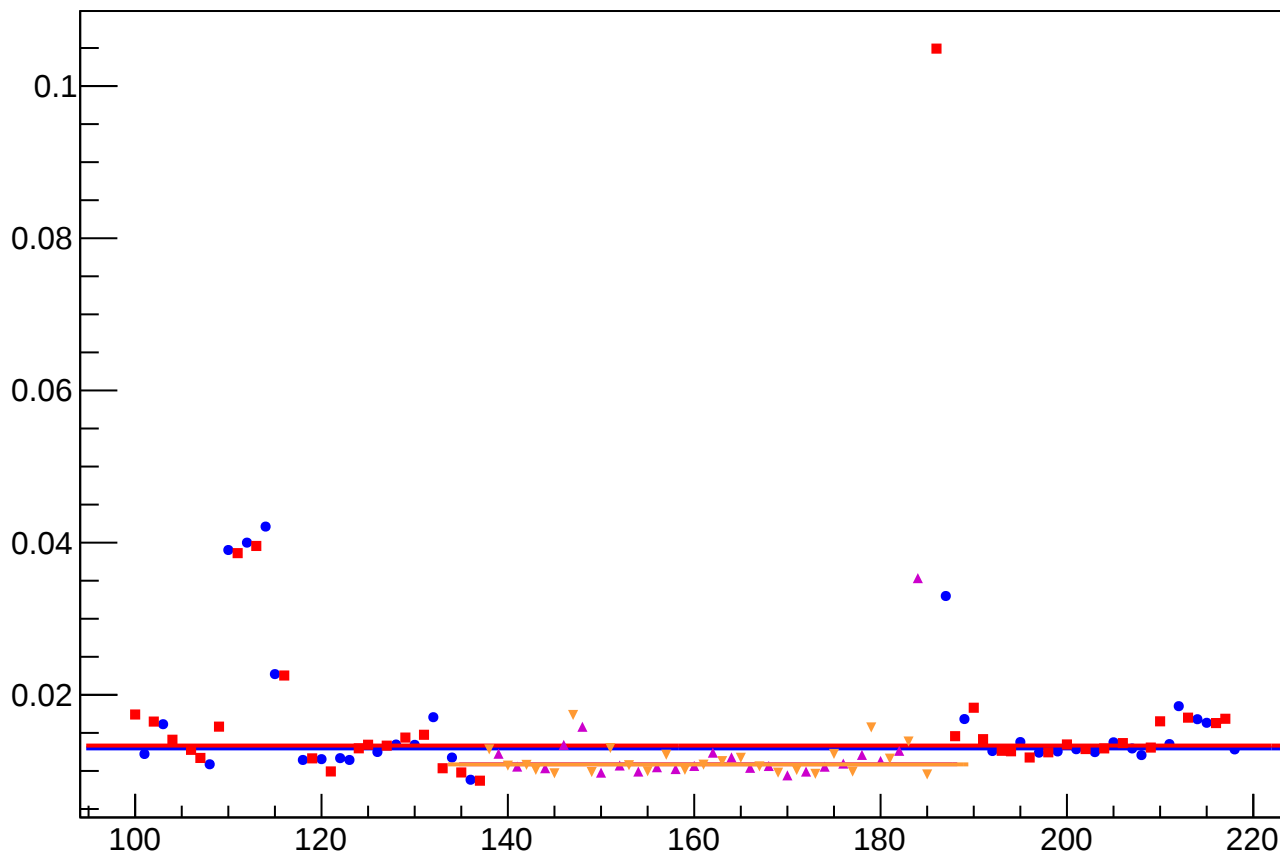
Right: 0.072+/-0.000 χ^2/NDF : 18450418211.8/68

In: 0.061+/-0.000 χ^2/NDF : 8852426969.3/55

Out: 0.067+/-0.000 χ^2/NDF : 9717188073.6/60

All: 0.064+/-0.000 χ^2/NDF : 18573873963.4/131

yield_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 1779830.8/32

Left Out: 0.011+/-0.000 χ^2/NDF :604787.9/24

Right Out: 0.013+/-0.000 χ^2/NDF : 2152420.8/35

Left In: 0.011+/-0.000 χ^2/NDF :530077.5/22

Left: 0.011+/-0.000 χ^2/NDF : 1134994.9/47

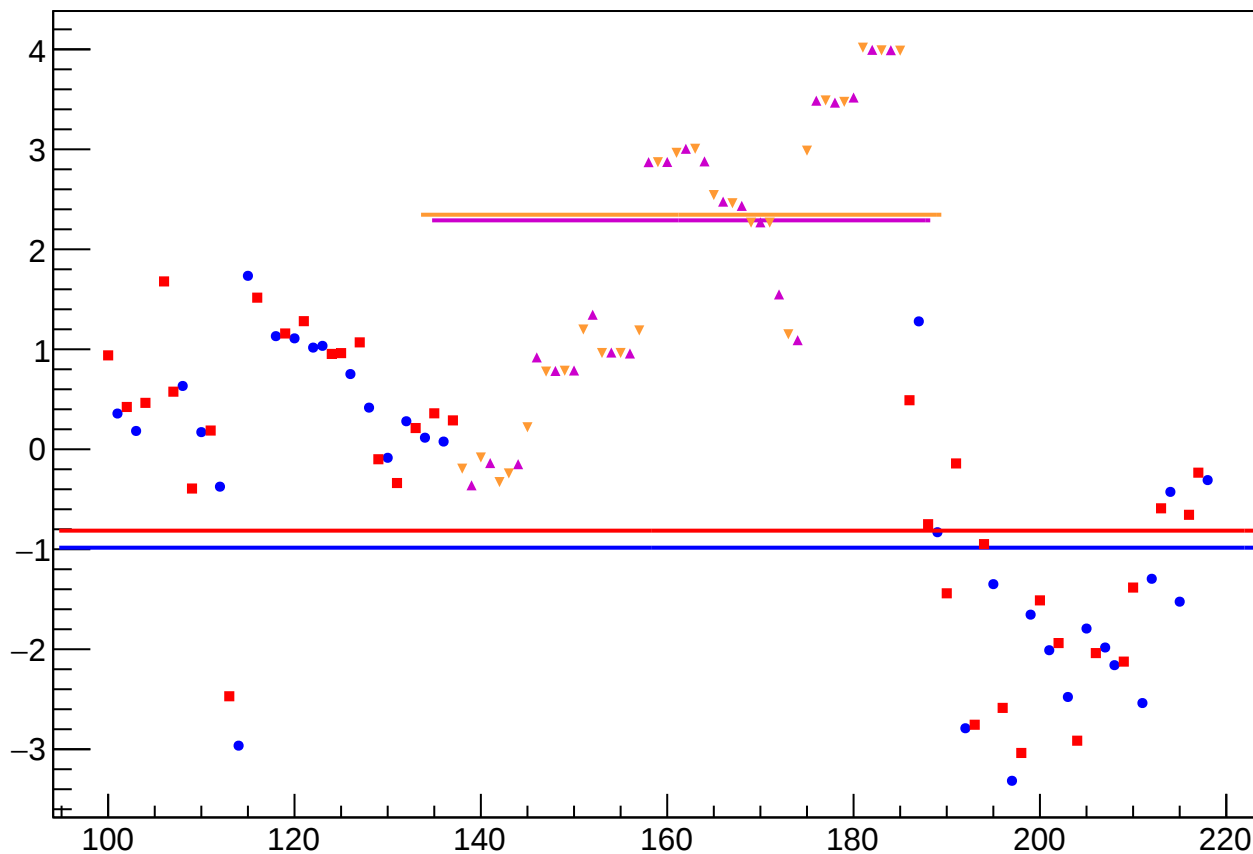
Right: 0.013+/-0.000 χ^2/NDF : 3945374.5/68

In: 0.012+/-0.000 χ^2/NDF :2798560.1/55

Out: 0.012+/-0.000 χ^2/NDF :3451196.3/60

All: 0.012+/-0.000 χ^2/NDF : 6251134.7/116

yield_bpm1X_mean vs Slug, Sign Corrected



Right In: -0.984 ± 0.000 $\chi^2/\text{NDF}: 7958406930.5/32$

Left Out: 2.346 ± 0.000 $\chi^2/\text{NDF}: 63481331015.4/24$

Right Out: -0.814 ± 0.000 $\chi^2/\text{NDF}: 8292913378.4/35$

Left In: 2.290 ± 0.000 $\chi^2/\text{NDF}: 60875537647.3/22$

Left: 2.318 ± 0.000 $\chi^2/\text{NDF}: 124438674298.4/47$

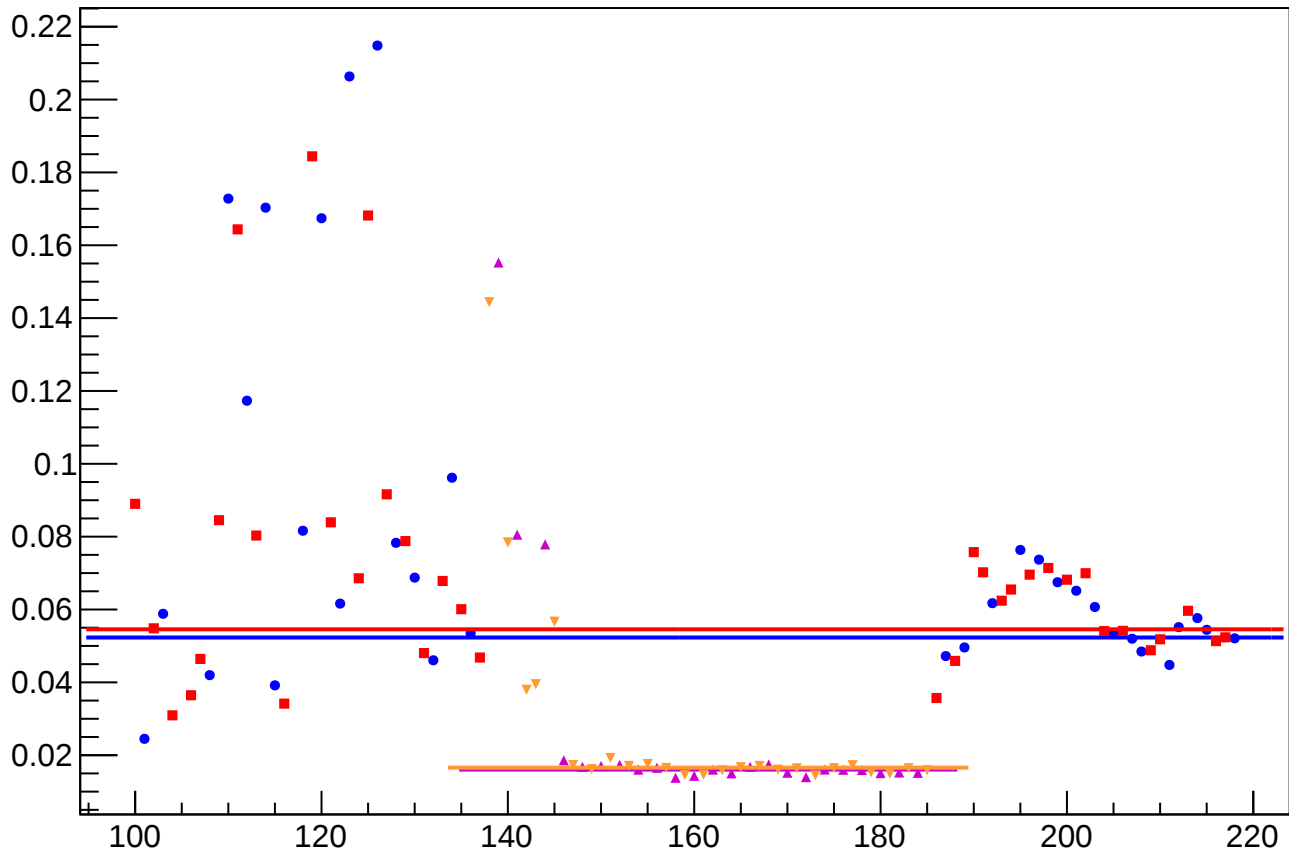
Right: -0.901 ± 0.000 $\chi^2/\text{NDF}: 16324776674.3/68$

In: 1.993 ± 0.000 $\chi^2/\text{NDF}: 119076618212.8/55$

Out: 2.065 ± 0.000 $\chi^2/\text{NDF}: 116958592677.4/60$

All: 2.029 ± 0.000 $\chi^2/\text{NDF}: 236180662645.6$

yield_bpm1X_rms vs Slug, Sign Corrected



Right In: 0.052 $\pm$ 0.000 χ^2 /NDF: 3567004.0/32

Left Out: 0.017 $\pm$ 0.000 χ^2 /NDF:2621162.1/24

Right Out: 0.055 $\pm$ 0.000 χ^2 /NDF: 2881852.7/35

Left In: 0.016 $\pm$ 0.000 χ^2 /NDF:2394376.5/22

Left: 0.016 $\pm$ 0.000 χ^2 /NDF: 5030430.5/47

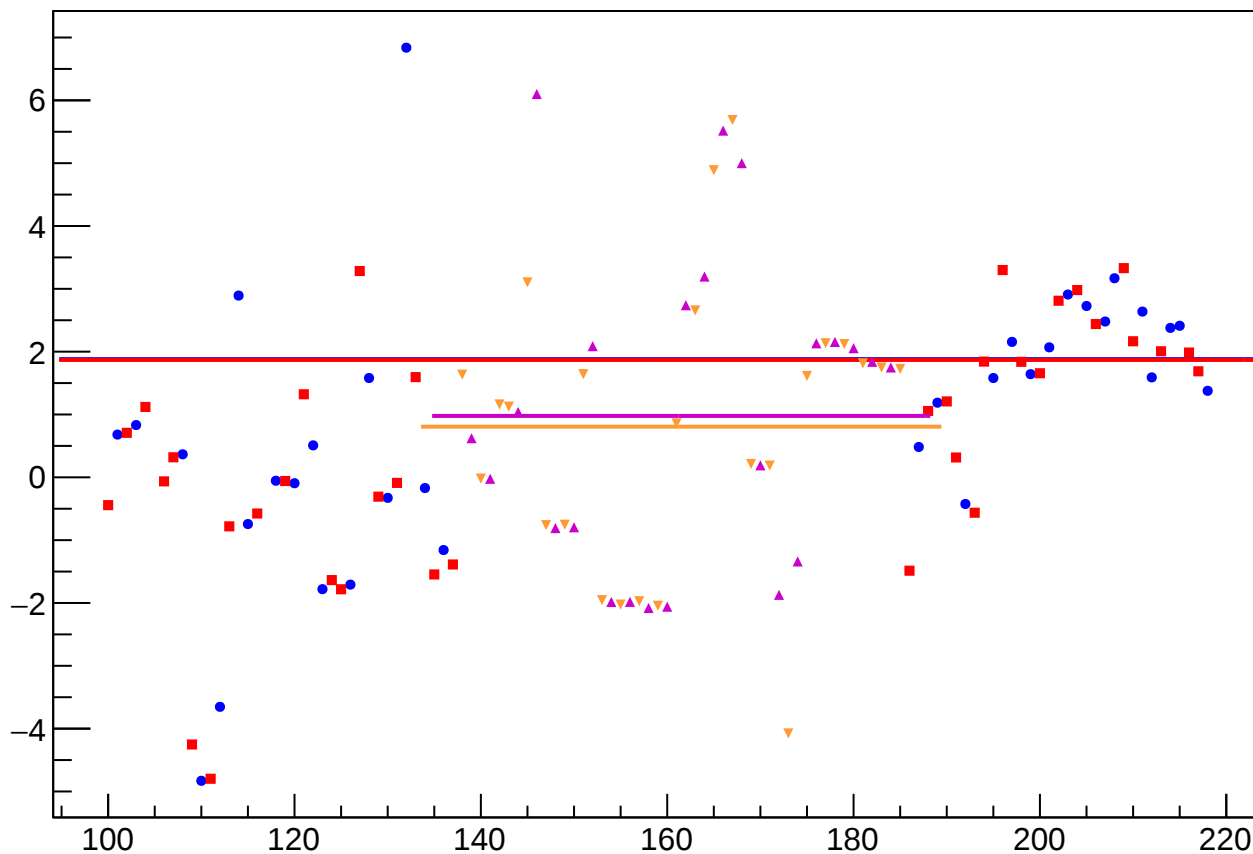
Right: 0.053 $\pm$ 0.000 χ^2 /NDF: 6474570.1/68

In: 0.019 $\pm$ 0.000 χ^2 /NDF:18290292.0/55

Out: 0.020 $\pm$ 0.000 χ^2 /NDF:18557947.9/60

All: 0.020 $\pm$ 0.000 χ^2 /NDF: 36870849.2/116

yield_bpm1Y_mean vs Slug, Sign Corrected



Right In: 1.881+/-0.000

χ^2/NDF : 40073748447.9/32

Left: 0.892+/-0.000

χ^2/NDF : 1077036497291.8/47

Left Out: 0.806+/-0.000

χ^2/NDF : 507578952196.2/24

Right: 1.875+/-0.000

χ^2/NDF : 79776314152.2/68

Right Out: 1.868+/-0.000

χ^2/NDF : 39700094476.0/35

In: 1.233+/-0.000

χ^2/NDF : 627913644271.8/55

Left In: 0.977+/-0.000

χ^2/NDF : 568209676597.4/22

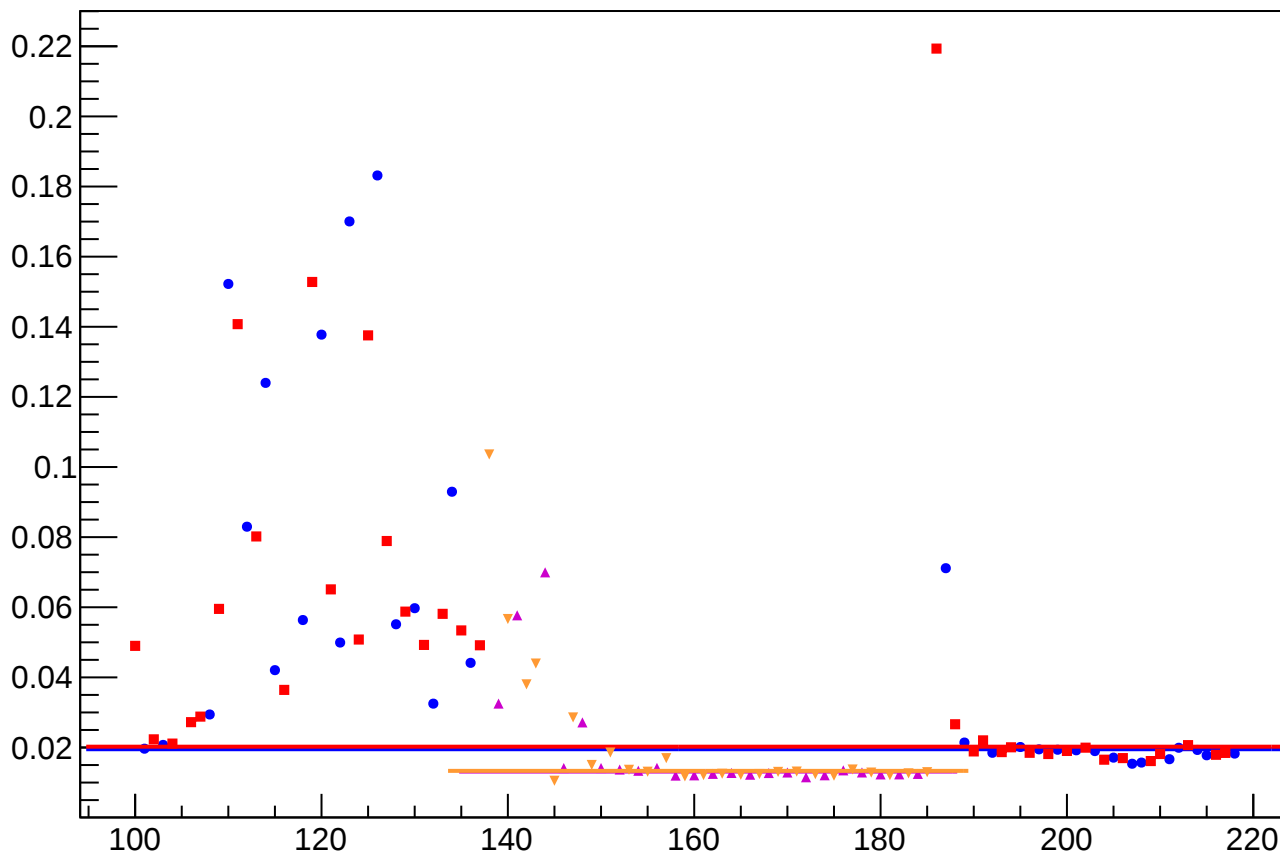
Out: 1.094+/-0.000

χ^2/NDF : 573280520091.9/60

All: 1.164+/-0.000

χ^2/NDF : 1202320112490.0

yield_bpm1Y_rms vs Slug, Sign Corrected



Right In: 0.020+/-0.000 χ^2/NDF : 4216989.7/32

Left Out: 0.013+/-0.000 χ^2/NDF :2829753.9/24

Right Out: 0.020+/-0.000 χ^2/NDF : 5204038.9/35

Left In: 0.013+/-0.000 χ^2/NDF :1946693.6/22

Left: 0.013+/-0.000 χ^2/NDF : 4779900.3/47

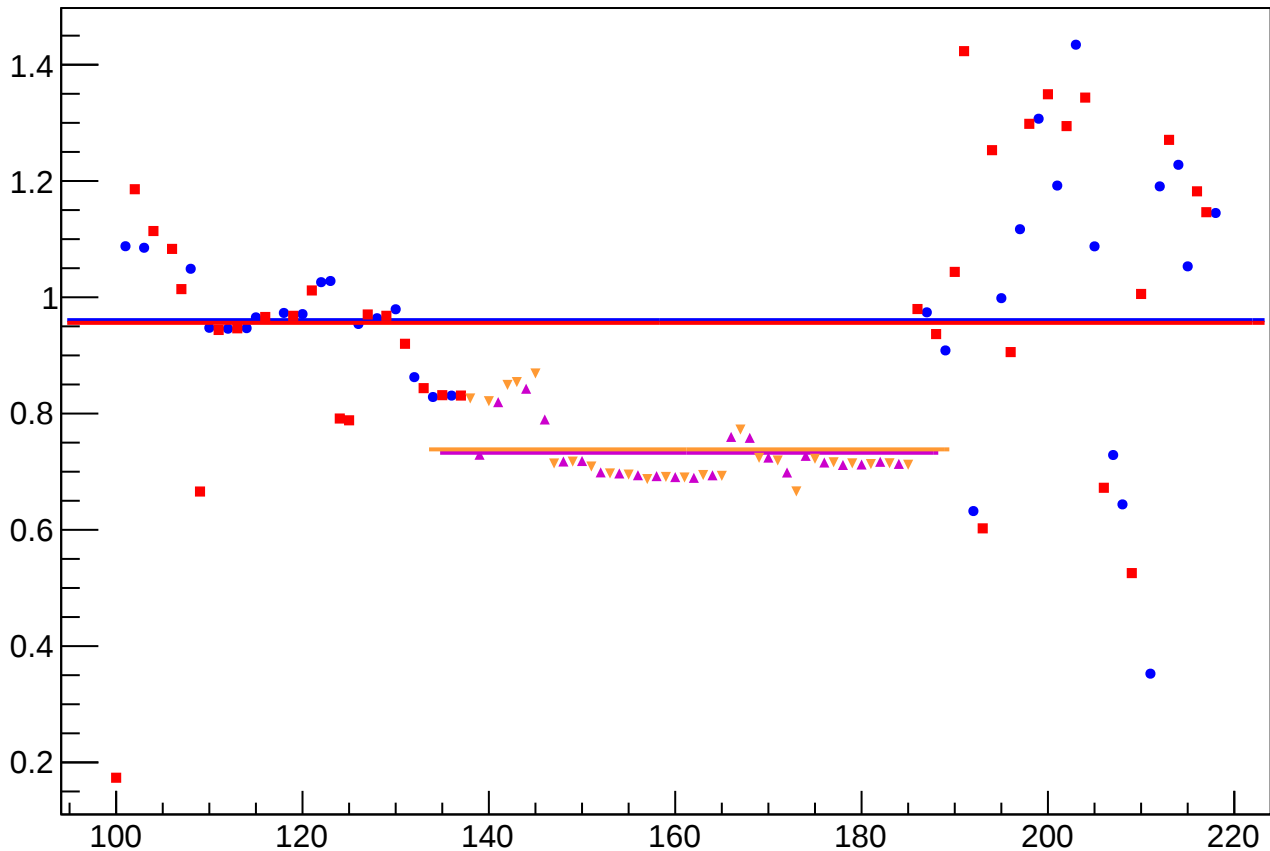
Right: 0.020+/-0.000 χ^2/NDF : 9438040.9/68

In: 0.015+/-0.000 χ^2/NDF :8118712.1/55

Out: 0.015+/-0.000 χ^2/NDF :10224504.7/60

All: 0.015+/-0.000 χ^2/NDF : 18351850.8/116

yield_bpm11X_mean vs Slug, Sign Corrected



Right In: 0.961+/-0.000 χ^2/NDF : 1014414036.4/32

Left Out: 0.738+/-0.000 χ^2/NDF : 310195180.4/24

Right Out: 0.956+/-0.000 χ^2/NDF : 1277616301.3/35

Left In: 0.733+/-0.000 χ^2/NDF : 170102394.7/22

Left: 0.736+/-0.000 χ^2/NDF : 481708989.2/47

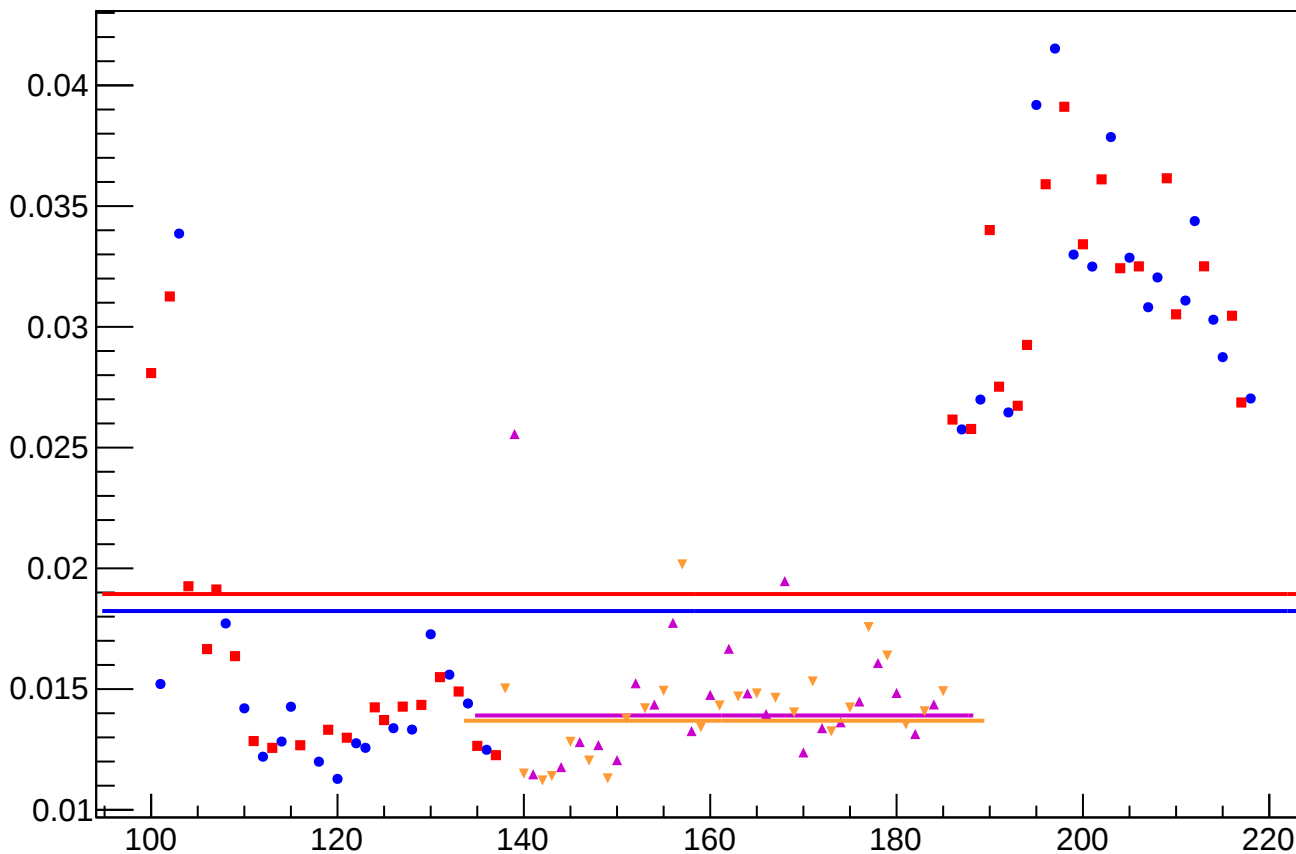
Right: 0.958+/-0.000 χ^2/NDF : 2292477487.2/68

In: 0.811+/-0.000 χ^2/NDF : 2607949278.4/55

Out: 0.808+/-0.000 χ^2/NDF : 2896092174.0/60

All: 0.809+/-0.000 χ^2/NDF : 5504484762.0/11

yield_bpm11X_rms vs Slug, Sign Corrected



Right In: 0.018+/-0.000 χ^2/NDF : 5755768.3/32

Left Out: 0.014+/-0.000 χ^2/NDF : 528480.6/24

Right Out: 0.019+/-0.000 χ^2/NDF : 5115984.5/35

Left In: 0.014+/-0.000 χ^2/NDF : 768161.9/22

Left: 0.014+/-0.000 χ^2/NDF : 1300553.4/47

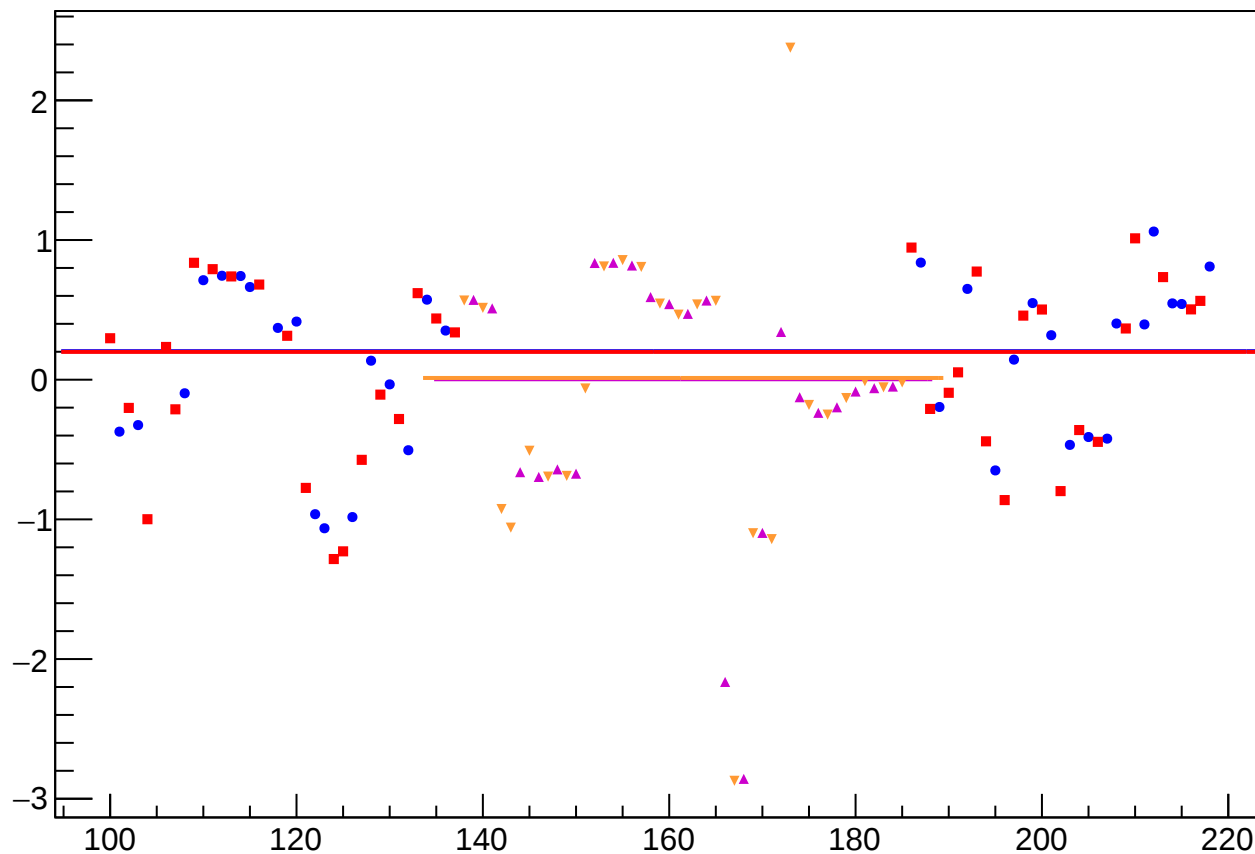
Right: 0.019+/-0.000 χ^2/NDF : 10892093.9/68

In: 0.015+/-0.000 χ^2/NDF : 7547222.6/55

Out: 0.015+/-0.000 χ^2/NDF : 7164639.0/60

All: 0.015+/-0.000 χ^2/NDF : 14711911.9/116

yield_bpm11Y_mean vs Slug, Sign Corrected



Right In: 0.204 $\pm$ 0.000 χ^2 /NDF: 34028340894.8/32

Left Out: 0.012 $\pm$ 0.000 χ^2 /NDF: 96383858927.1/24

Right Out: 0.199 $\pm$ 0.000 χ^2 /NDF: 42711179391.2/35

Left In: 0.003 $\pm$ 0.000 χ^2 /NDF: 78826489573.0/22

Left: 0.008 $\pm$ 0.000 χ^2 /NDF: 175214894006.3/47

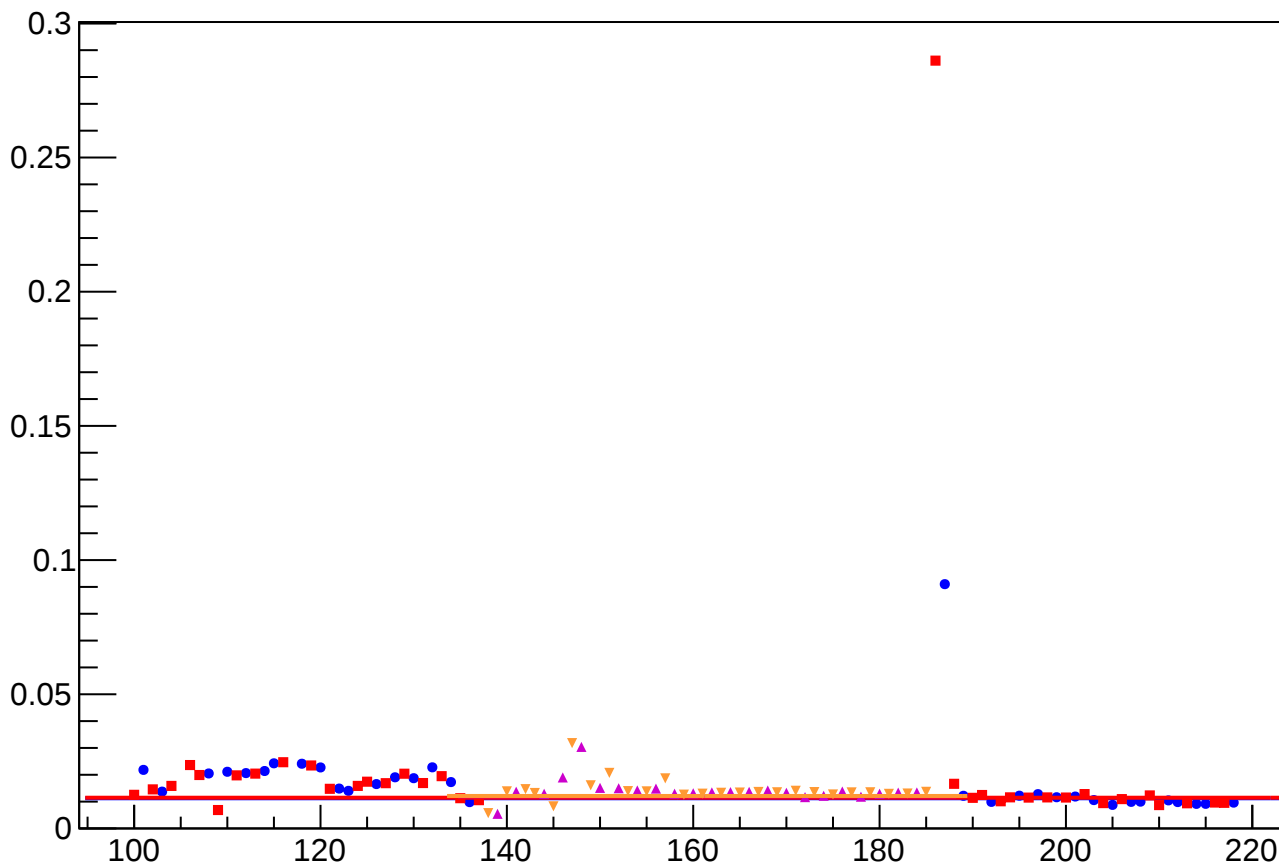
Right: 0.202 $\pm$ 0.000 χ^2 /NDF: 76741073963.0/68

In: 0.111 $\pm$ 0.000 χ^2 /NDF: 115114915504.9/55

Out: 0.109 $\pm$ 0.000 χ^2 /NDF: 141062163168.0/60

All: 0.110 $\pm$ 0.000 χ^2 /NDF: 256177439740.0

yield_bpm11Y_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 2660710.2/32

Left Out: 0.012+/-0.000 χ^2/NDF :3105238.9/24

Right Out: 0.011+/-0.000 χ^2/NDF : 3085191.1/35

Left In: 0.012+/-0.000 χ^2/NDF :3003502.9/22

Left: 0.012+/-0.000 χ^2/NDF : 6110012.2/47

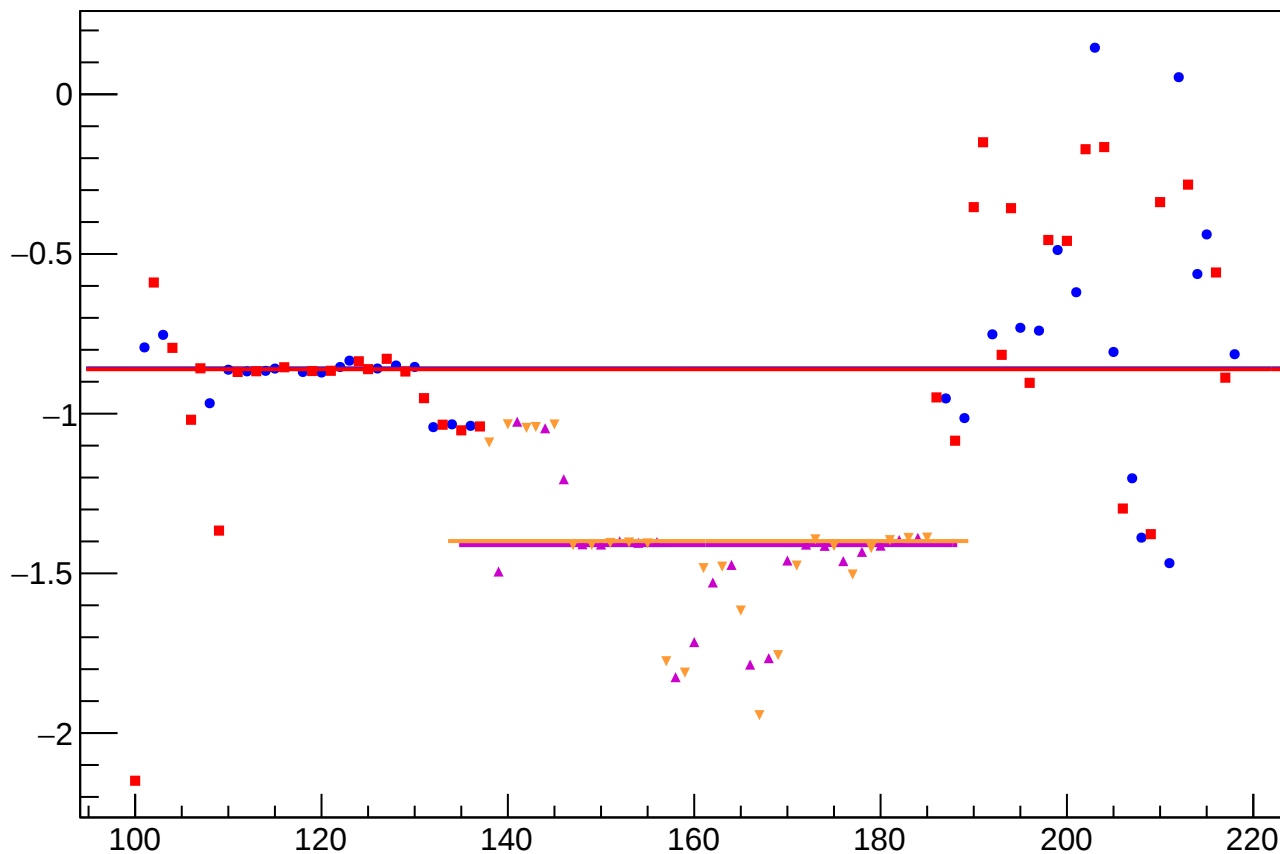
Right: 0.011+/-0.000 χ^2/NDF : 5750781.8/68

In: 0.012+/-0.000 χ^2/NDF :5726917.2/55

Out: 0.012+/-0.000 χ^2/NDF :6238822.8/60

All: 0.012+/-0.000 χ^2/NDF : 11972329.6/116

yield_bpm12X_mean vs Slug, Sign Corrected



Right In: -0.858 ± 0.000 $\chi^2/\text{NDF}: 373132757.0/32$

Left Out: -1.399 ± 0.000 $\chi^2/\text{NDF}: 738251911.1/24$

Right Out: -0.861 ± 0.000 $\chi^2/\text{NDF}: 493076043.6/35$

Left In: -1.411 ± 0.000 $\chi^2/\text{NDF}: 512547995.0/22$

Left: -1.405 ± 0.000 $\chi^2/\text{NDF}: 1251791467.1/47$

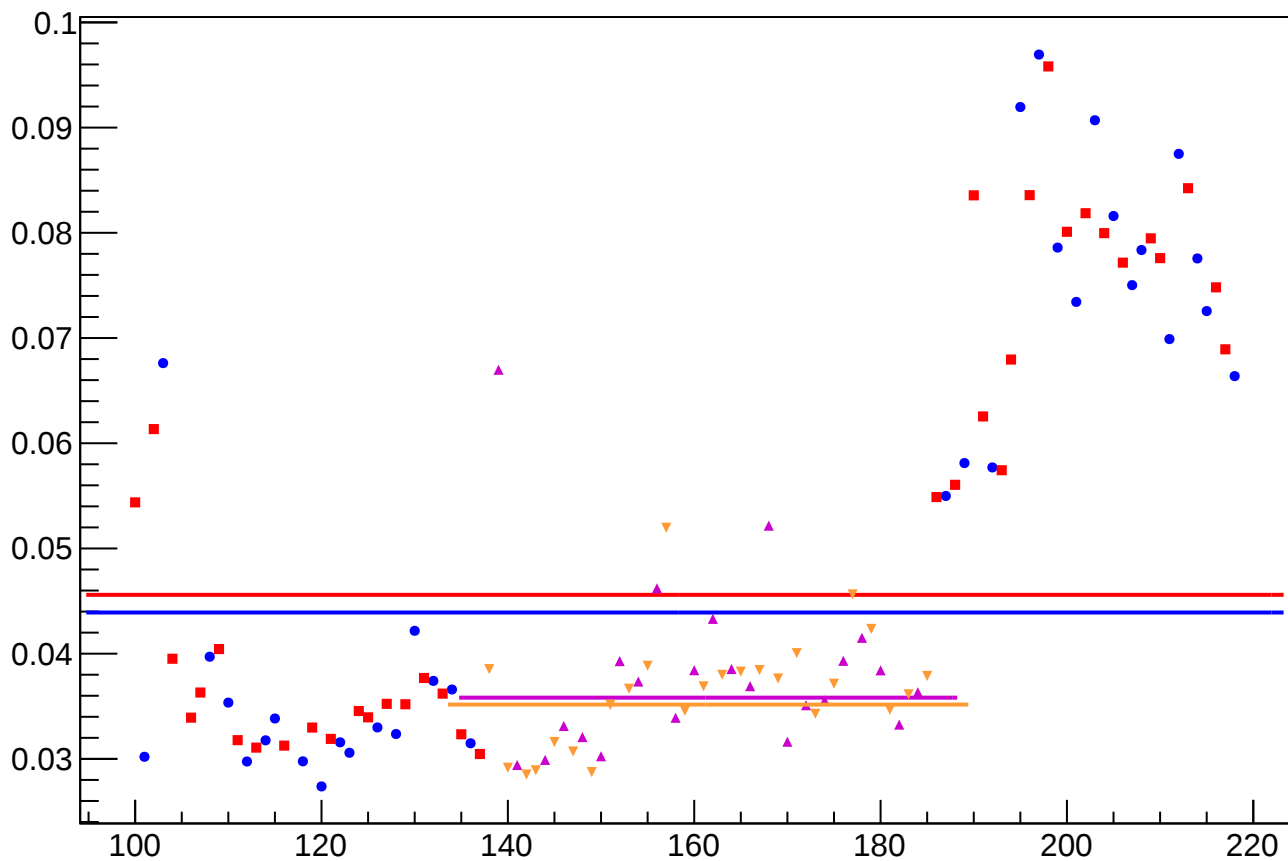
Right: -0.860 ± 0.000 $\chi^2/\text{NDF}: 866232425.8/68$

In: -1.201 ± 0.000 $\chi^2/\text{NDF}: 2271622857.4/55$

Out: -1.208 ± 0.000 $\chi^2/\text{NDF}: 2562146973.9/60$

All: -1.205 ± 0.000 $\chi^2/\text{NDF}: 4834254974.1/11$

yield_bpm12X_rms vs Slug, Sign Corrected



Right In: 0.044 $\pm$ 0.000 χ^2 /NDF: 5577965.9/32

Left Out: 0.035 $\pm$ 0.000 χ^2 /NDF: 595219.5/24

Right Out: 0.046 $\pm$ 0.000 χ^2 /NDF: 4735761.5/35

Left In: 0.036 $\pm$ 0.000 χ^2 /NDF: 864147.6/22

Left: 0.035 $\pm$ 0.000 χ^2 /NDF: 1464751.5/47

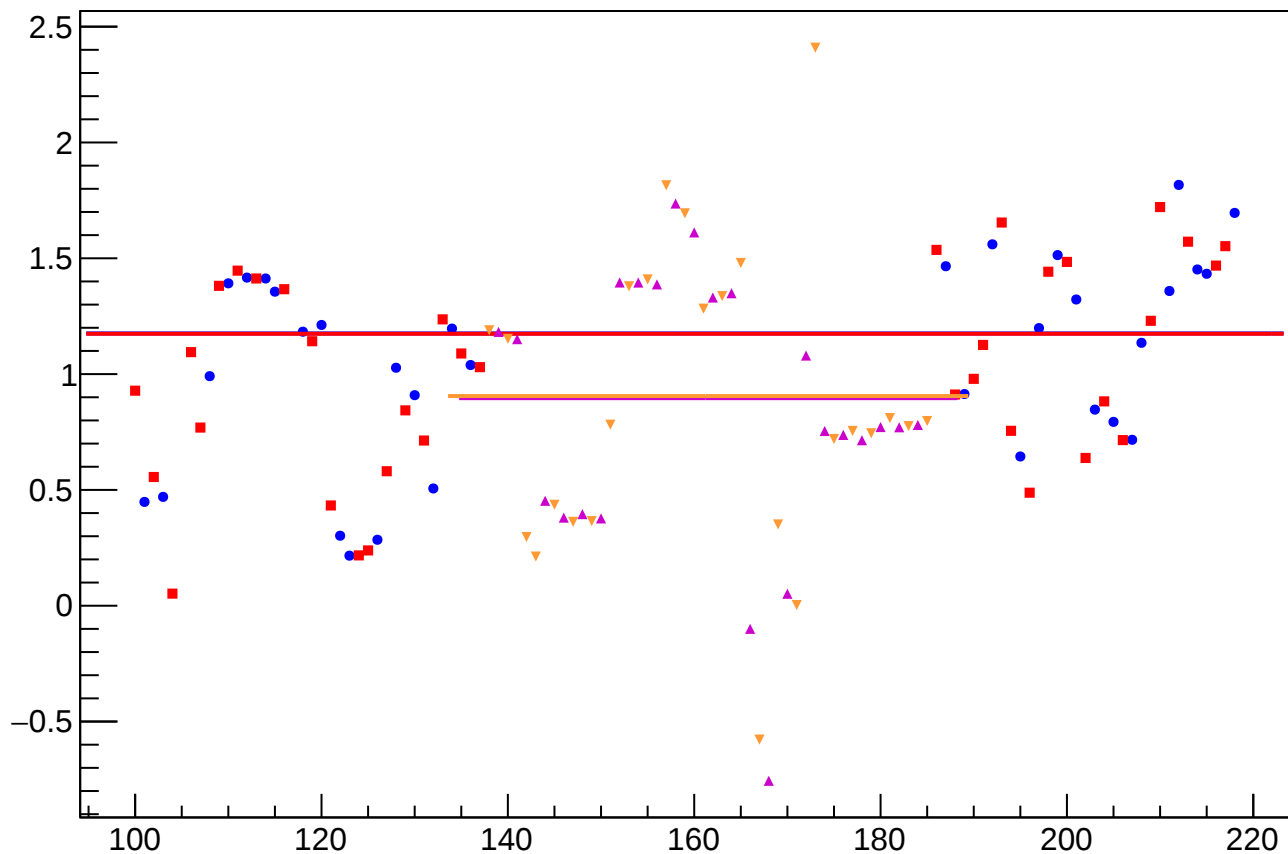
Right: 0.045 $\pm$ 0.000 χ^2 /NDF: 10334080.1/68

In: 0.039 $\pm$ 0.000 χ^2 /NDF: 7035212.2/55

Out: 0.039 $\pm$ 0.000 χ^2 /NDF: 6331355.2/60

All: 0.039 $\pm$ 0.000 χ^2 /NDF: 13366596.1/116

yield_bpm12Y_mean vs Slug, Sign Corrected



Right In: 1.176+/-0.000

χ^2/NDF : 49838495791.4/32

Left: 0.901+/-0.000 χ^2/NDF : 150868618084.6/47

Right: 1.175+/-0.000 χ^2/NDF : 100183448985.3/68

Left Out: 0.905+/-0.000

χ^2/NDF : 84265726513.8/24

In: 1.069+/-0.000 χ^2/NDF : 126321261812.2/55

Right Out: 1.174+/-0.000

χ^2/NDF : 50344663077.3/35

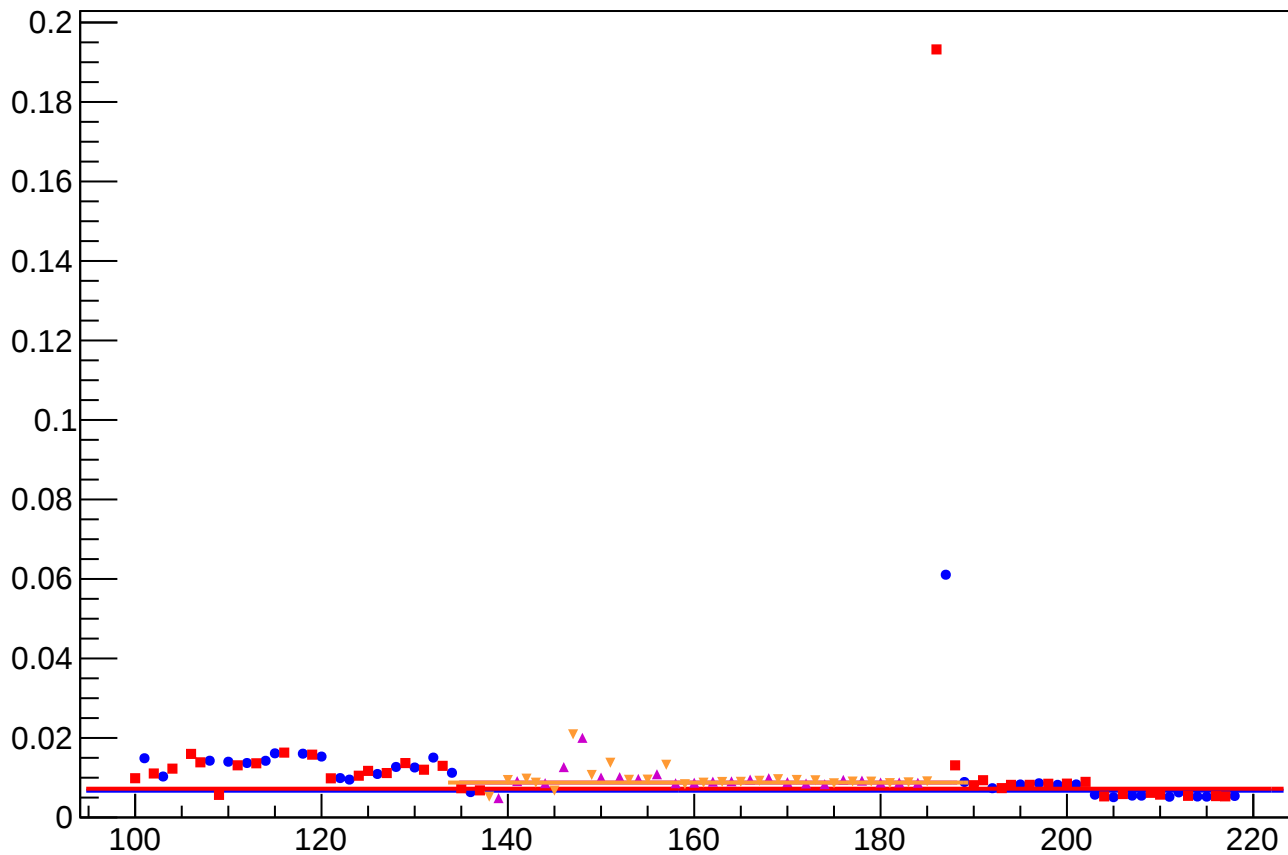
Out: 1.059+/-0.000 χ^2/NDF : 143649145310.6/60

Left In: 0.896+/-0.000

χ^2/NDF : 66594200889.6/22

All: 1.064+/-0.000 χ^2/NDF : 269997452051.9

yield_bpm12Y_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 3850435.8/32

Left Out: 0.009+/-0.000 χ^2/NDF :1697568.1/24

Right Out: 0.007+/-0.000 χ^2/NDF : 4088375.8/35

Left In: 0.009+/-0.000 χ^2/NDF :1607939.0/22

Left: 0.009+/-0.000 χ^2/NDF : 3305514.2/47

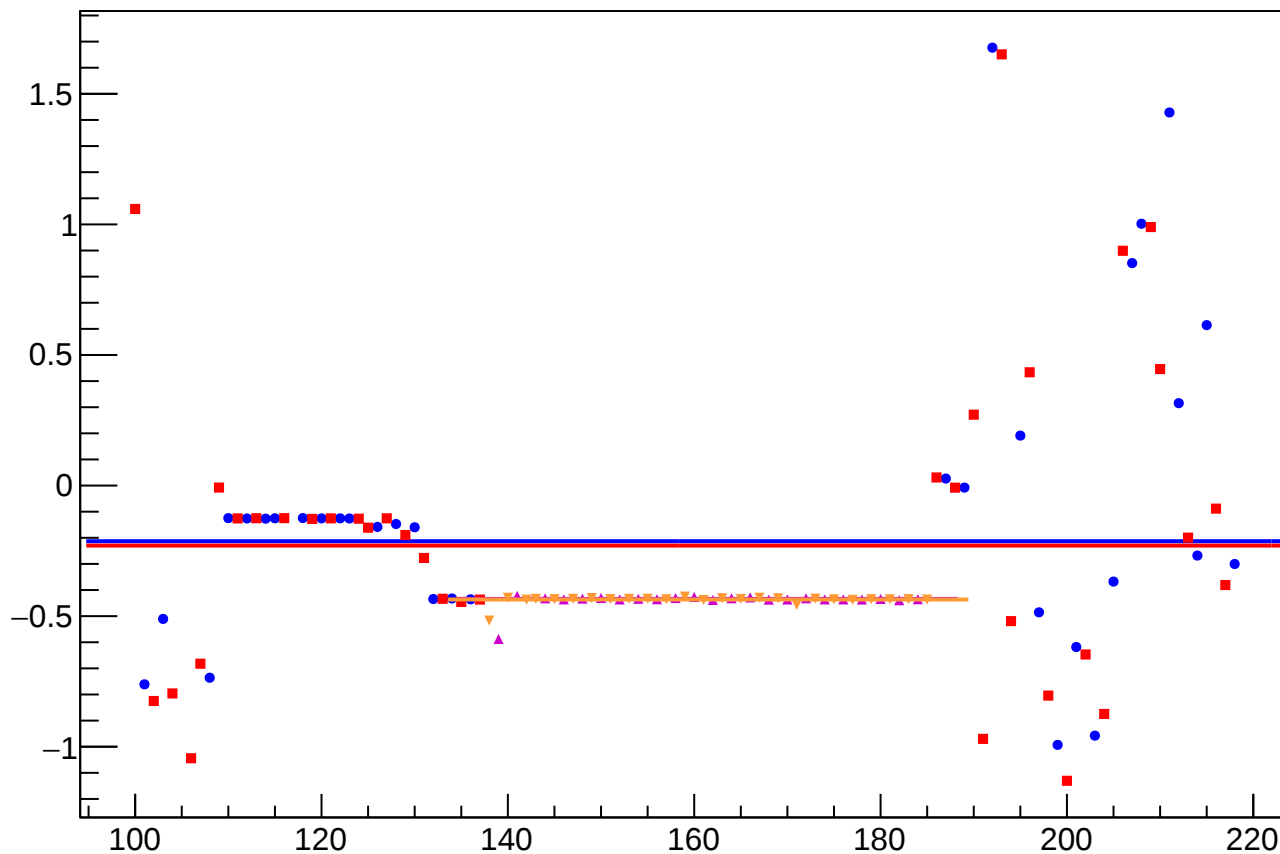
Right: 0.007+/-0.000 χ^2/NDF : 8017032.3/68

In: 0.008+/-0.000 χ^2/NDF :6517844.1/55

Out: 0.008+/-0.000 χ^2/NDF :6385443.1/60

All: 0.008+/-0.000 χ^2/NDF : 12981394.3/116

yield_bpm16X_mean vs Slug, Sign Corrected



Right In: -0.213+/-0.000 χ^2/NDF : 4983992941.3/32

Left Out: -0.436+/-0.000 χ^2/NDF : 28774660.0/24

Right Out: -0.230+/-0.000 χ^2/NDF : 3434395371.1/35

Left In: -0.434+/-0.000 χ^2/NDF : 23984173.0/22

Left: -0.435+/-0.000 χ^2/NDF : 53122221.7/47

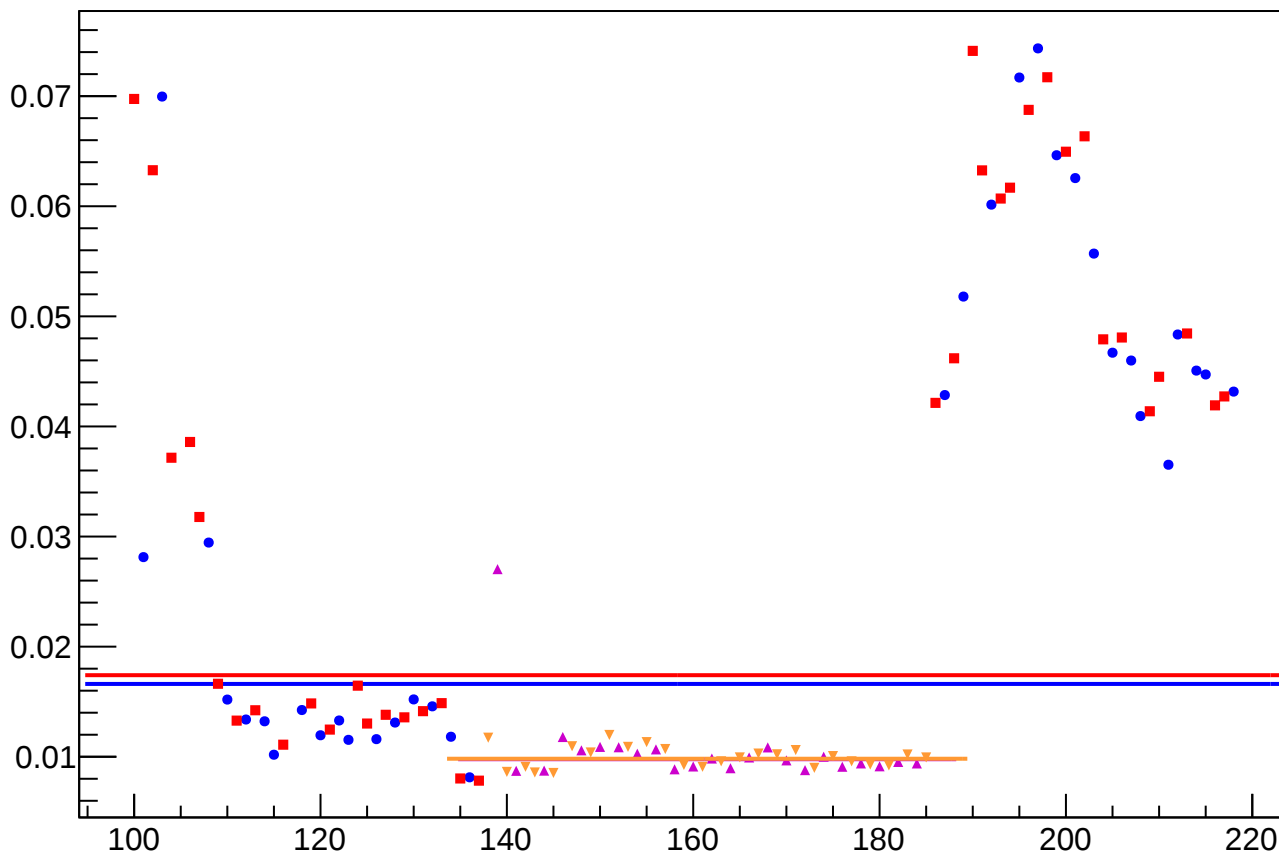
Right: -0.221+/-0.000 χ^2/NDF : 8423259471.8/68

In: -0.391+/-0.000 χ^2/NDF : 6442135989.4/55

Out: -0.400+/-0.000 χ^2/NDF : 4661288448.6/60

All: -0.396+/-0.000 χ^2/NDF : 1111152736.8/117

yield_bpm16X_rms vs Slug, Sign Corrected



Right In: 0.017+/-0.000 χ^2/NDF : 13122509.3/32

Left Out: 0.010+/-0.000 χ^2/NDF :269242.6/24

Right Out: 0.017+/-0.000 χ^2/NDF : 13274311.9/35

Left In: 0.010+/-0.000 χ^2/NDF :747550.0/22

Left: 0.010+/-0.000 χ^2/NDF : 1017115.3/47

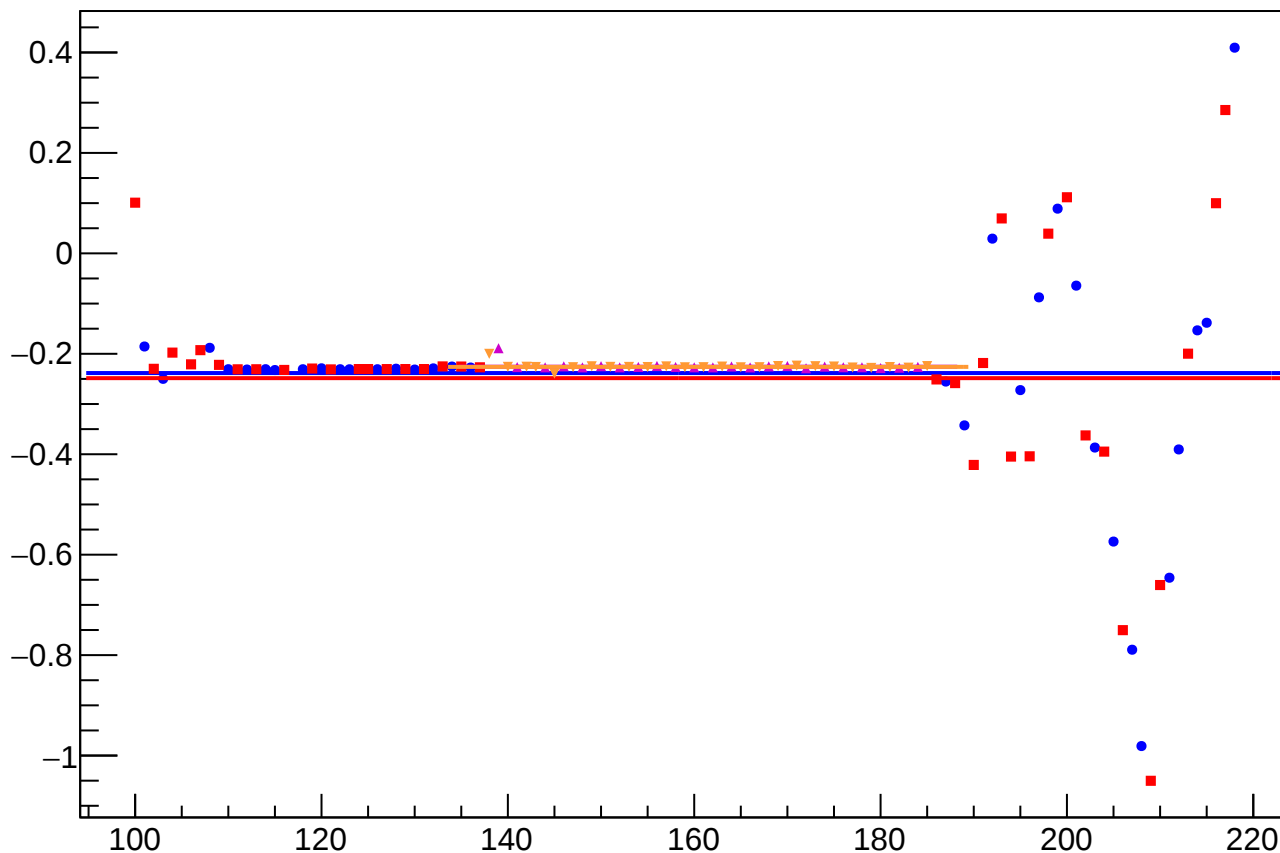
Right: 0.017+/-0.000 χ^2/NDF : 26419054.2/68

In: 0.011+/-0.000 χ^2/NDF :16619019.4/55

Out: 0.011+/-0.000 χ^2/NDF :16781891.6/60

All: 0.011+/-0.000 χ^2/NDF : 33401257.2/116

yield_bpm16Y_mean vs Slug, Sign Corrected



Right In: -0.238+/-0.000

χ^2/NDF : 33462238199.8/32

Left Out: -0.226+/-0.000

χ^2/NDF : 21205667.4/24

Right Out: -0.248+/-0.000

χ^2/NDF : 30044053493.1/35

Left In: -0.226+/-0.000

χ^2/NDF : 15245251.1/22

Left: -0.226+/-0.000

χ^2/NDF : 36480793.2/47

Right: -0.243+/-0.000

χ^2/NDF : 63533583413.6/68

In: -0.232+/-0.000

χ^2/NDF : 33522788125.2/55

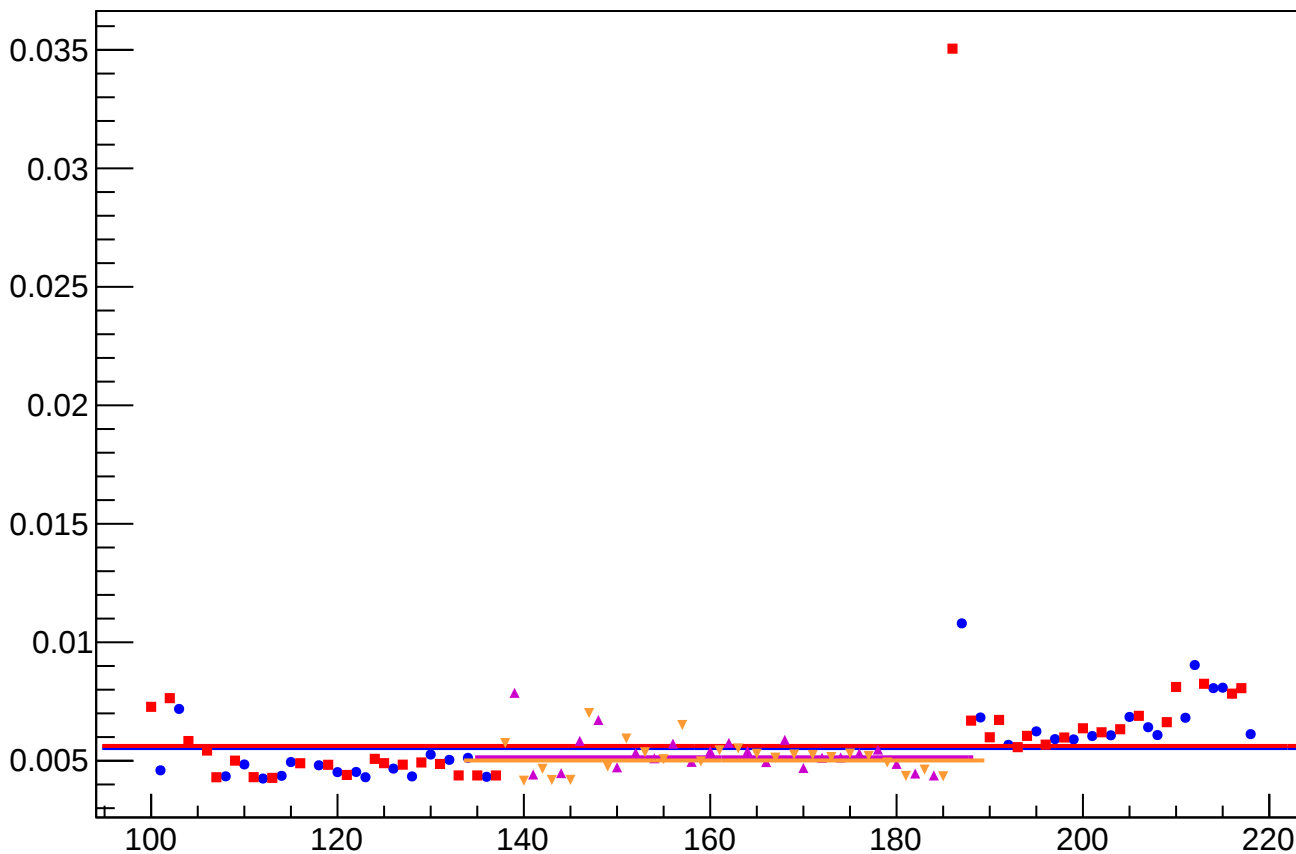
Out: -0.236+/-0.000

χ^2/NDF : 30215455485.0/60

All: -0.234+/-0.000

χ^2/NDF : 63748747618.8/100

yield_bpm16Y_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 1379863.4/32

Left Out: 0.005+/-0.000 χ^2/NDF : 530632.6/24

Right Out: 0.006+/-0.000 χ^2/NDF : 1858615.2/35

Left In: 0.005+/-0.000 χ^2/NDF : 493107.7/22

Left: 0.005+/-0.000 χ^2/NDF : 1035156.6/47

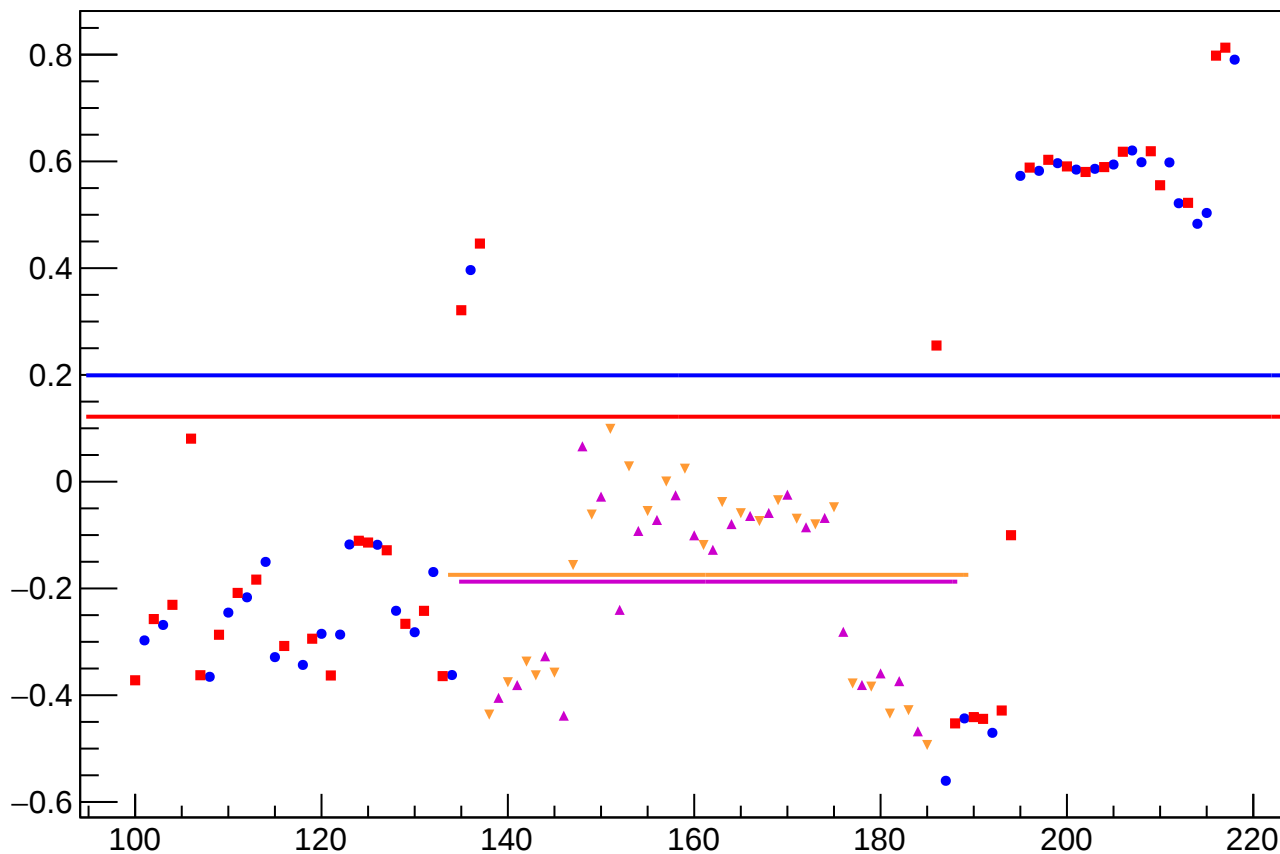
Right: 0.006+/-0.000 χ^2/NDF : 3242730.1/68

In: 0.005+/-0.000 χ^2/NDF : 1959745.7/55

Out: 0.005+/-0.000 χ^2/NDF : 2612697.3/60

All: 0.005+/-0.000 χ^2/NDF : 4575083.4/116

yield_bpm0i02X_mean vs Slug, Sign Corrected



Right In: 0.199+/-0.000

χ^2/NDF : 74199261236.7/32

Left: -0.181+/-0.000

χ^2/NDF : 30888184231.6/47

Left Out: -0.174+/-0.000

χ^2/NDF : 18025533236.1/24

Right: 0.160+/-0.000

χ^2/NDF : 154773811715.7/68

Right Out: 0.122+/-0.000

χ^2/NDF : 79437461544.4/35

In: -0.031+/-0.000

χ^2/NDF : 120052826321.9/55

Out: -0.056+/-0.000

χ^2/NDF : 117809169595.8/60

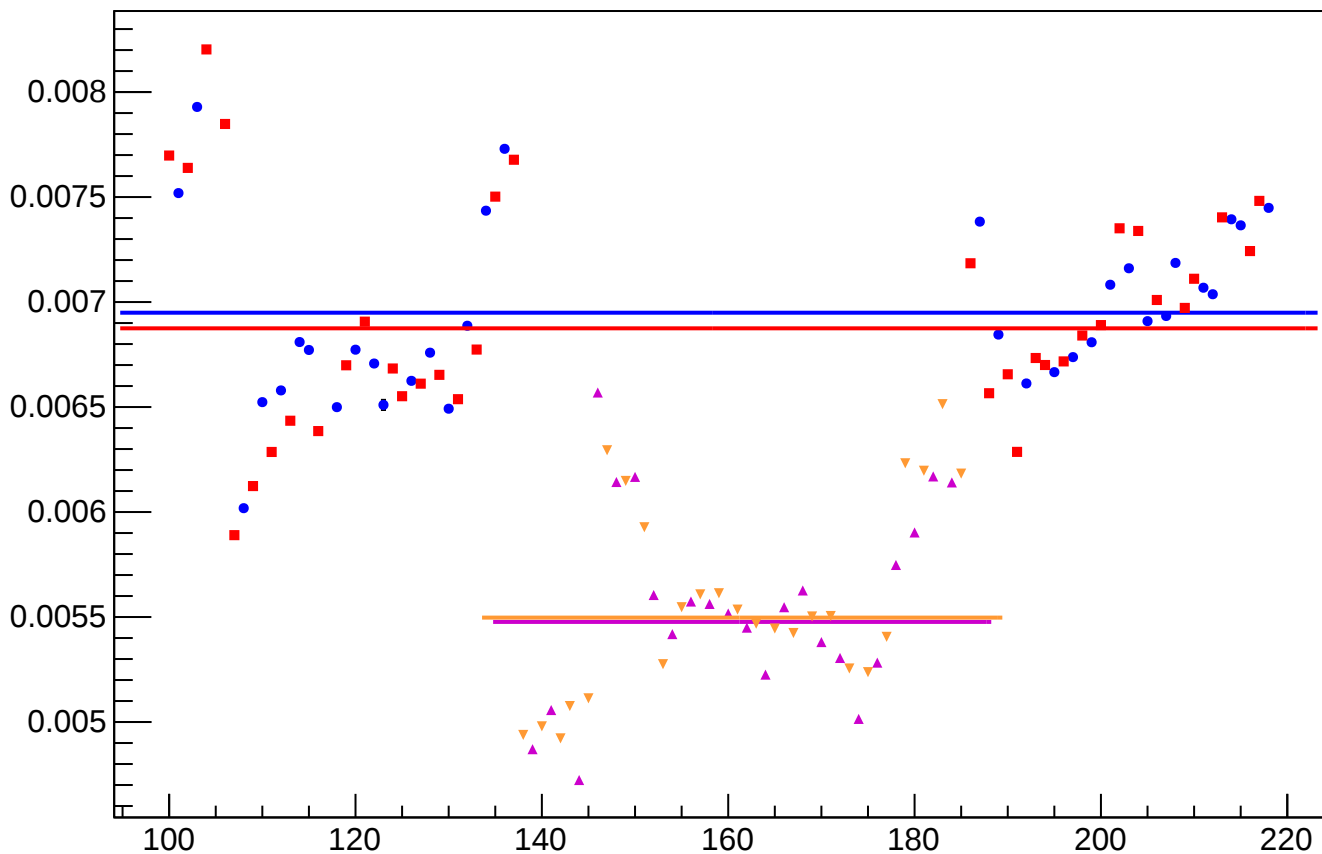
Left In: -0.187+/-0.000

χ^2/NDF : 12816646575.4/22

All: -0.044+/-0.000

χ^2/NDF : 238146049074.9/100

yield_bpm0i02X_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 112331.6/32

Left Out: 0.005+/-0.000 χ^2/NDF :198746.4/24

Right Out: 0.007+/-0.000 χ^2/NDF : 156771.3/35

Left In: 0.005+/-0.000 χ^2/NDF :202181.4/22

Left: 0.005+/-0.000 χ^2/NDF : 401165.3/47

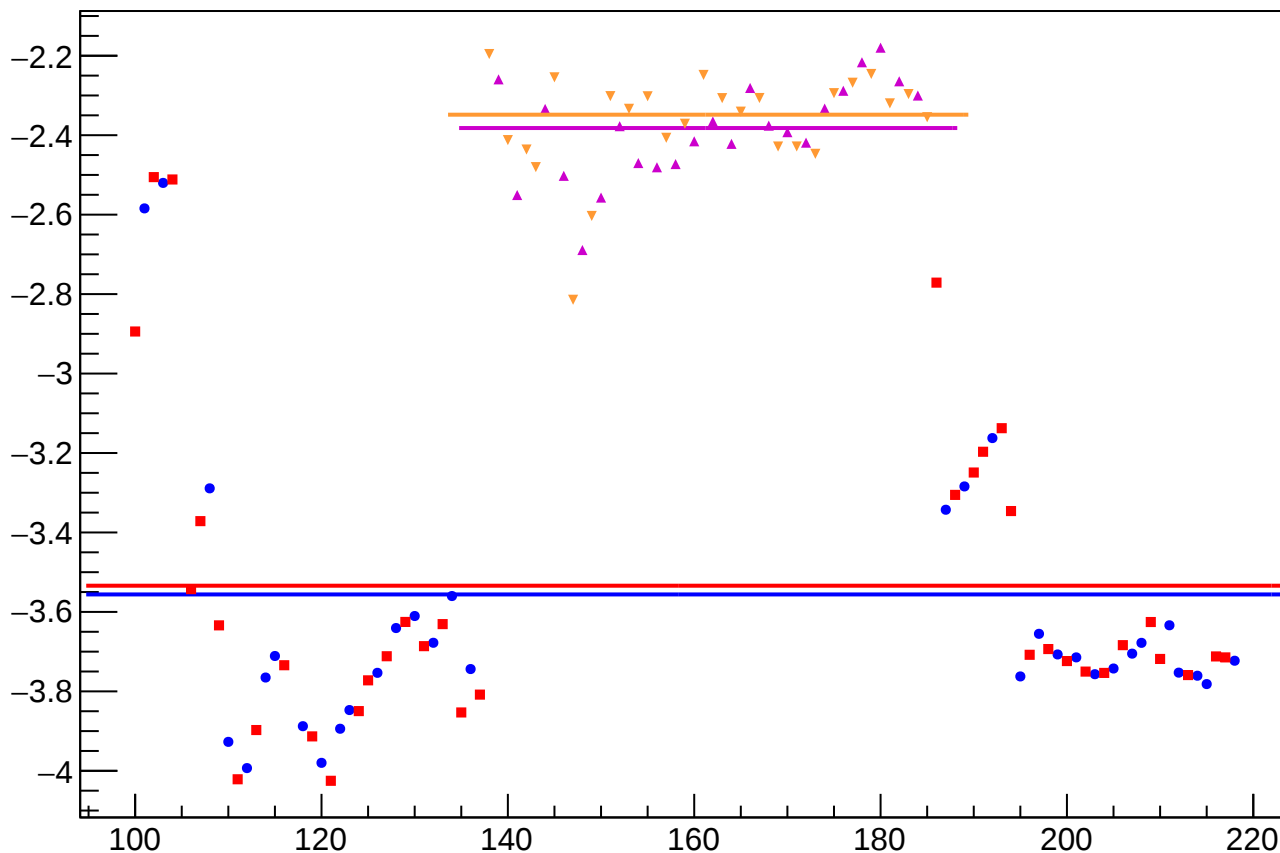
Right: 0.007+/-0.000 χ^2/NDF : 271202.2/68

In: 0.006+/-0.000 χ^2/NDF :1273687.9/55

Out: 0.006+/-0.000 χ^2/NDF :1235483.9/60

All: 0.006+/-0.000 χ^2/NDF : 2509624.7/116

yield_bpm0i02Y_mean vs Slug, Sign Corrected



Right In: -3.556+/-0.000 χ^2/NDF : 30851035294.6/32

Left Out: -2.348+/-0.000 χ^2/NDF : 2158686333.4/24

Right Out: -3.534+/-0.000 χ^2/NDF : 31617620739.3/35

Left In: -2.382+/-0.000 χ^2/NDF : 2318395228.4/22

Left: -2.365+/-0.000 χ^2/NDF : 4600738143.2/47

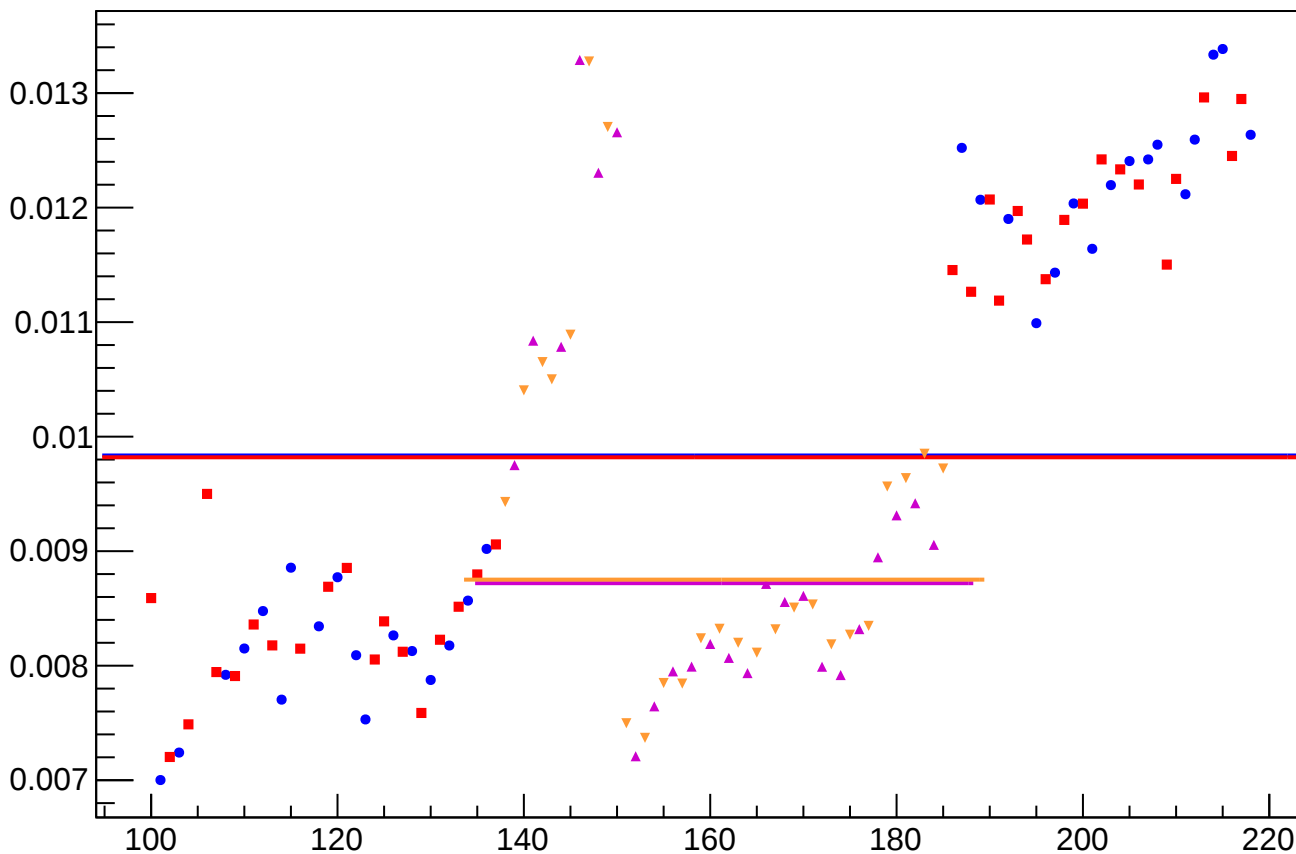
Right: -3.545+/-0.000 χ^2/NDF : 62511925370.3/68

In: -2.913+/-0.000 χ^2/NDF : 166310802726.0/55

Out: -2.878+/-0.000 χ^2/NDF : 175111721004.5/60

All: -2.896+/-0.000 χ^2/NDF : 341668352543.8

yield_bpm0i02Y_rms vs Slug, Sign Corrected



Right In: 0.010+/-0.000 χ^2/NDF : 1606081.4/32

Left Out: 0.009+/-0.000 χ^2/NDF :663672.8/24

Right Out: 0.010+/-0.000 χ^2/NDF : 1432702.5/35

Left In: 0.009+/-0.000 χ^2/NDF :747867.0/22

Left: 0.009+/-0.000 χ^2/NDF : 1411749.0/47

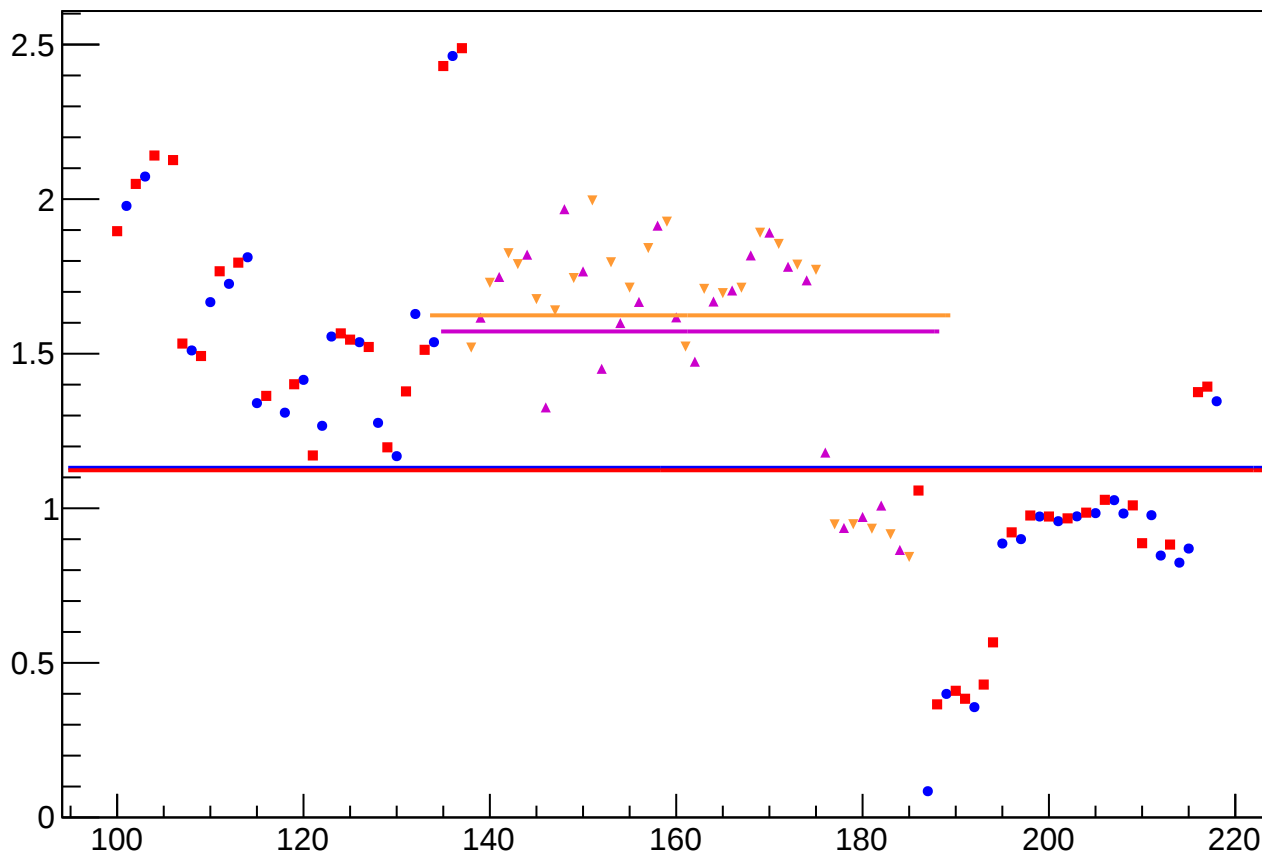
Right: 0.010+/-0.000 χ^2/NDF : 3038828.5/68

In: 0.009+/-0.000 χ^2/NDF :2594121.9/55

Out: 0.009+/-0.000 χ^2/NDF :2325851.9/60

All: 0.009+/-0.000 χ^2/NDF : 4919979.1/116

yield_bpm0i02aX_mean vs Slug, Sign Corrected



Right In: 1.131 $\pm$ 0.000 χ^2 /NDF: 29059728930.0/32

Left Out: 1.624 $\pm$ 0.000 χ^2 /NDF: 16631112386.4/24

Right Out: 1.123 $\pm$ 0.000 χ^2 /NDF: 33737562926.5/35

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

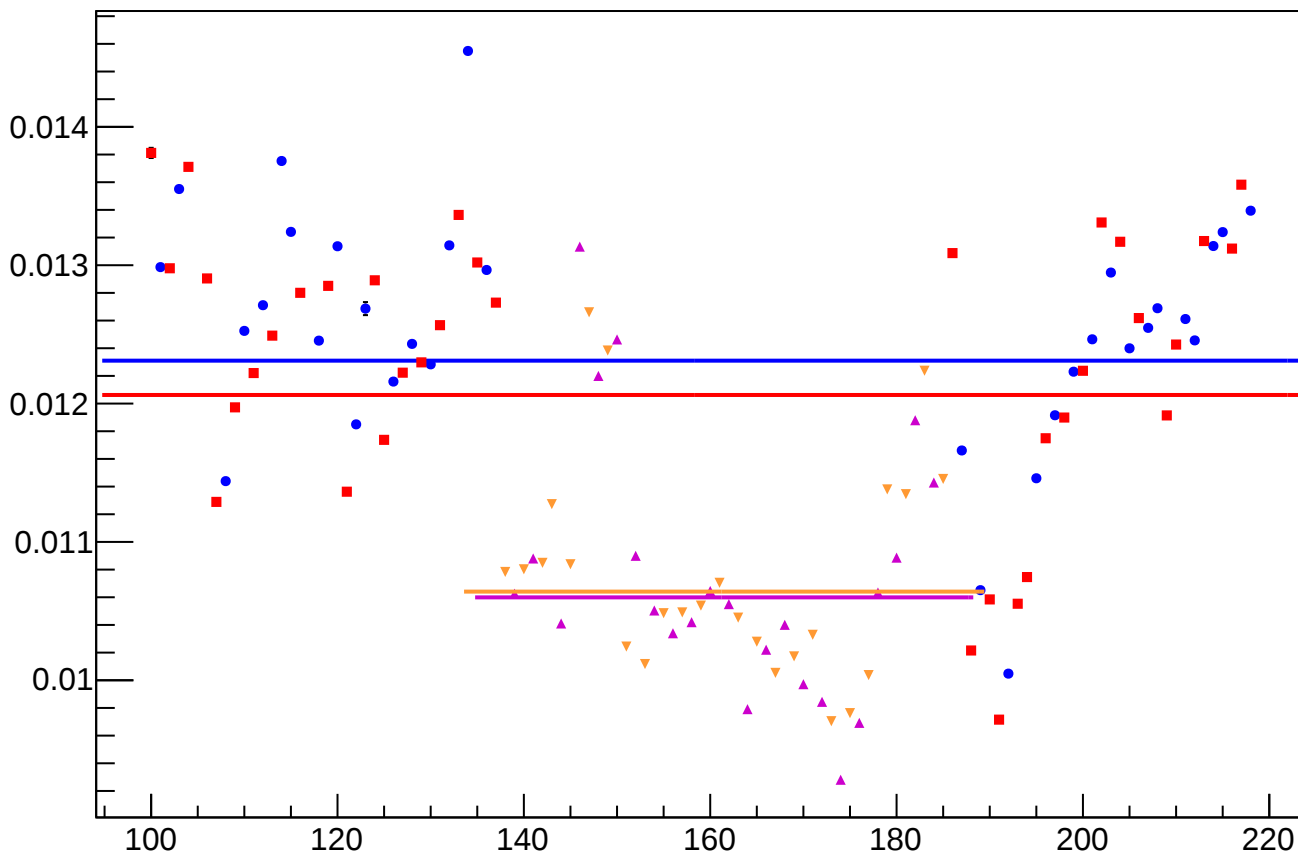
Right: 1.127 $\pm$ 0.000 χ^2 /NDF: 62801148146.2/68

In: 1.377 $\pm$ 0.000 χ^2 /NDF: 56009622936.1/55

Out: 1.402 $\pm$ 0.000 χ^2 /NDF: 67768010920.1/60

All: 1.390 $\pm$ 0.000 χ^2 /NDF: 123861544114.4

yield_bpm0i02aX_rms vs Slug, Sign Corrected



Right In: 0.012 $\pm$ 0.000 χ^2 /NDF: 197326.8/32

Left Out: 0.011 $\pm$ 0.000 χ^2 /NDF:159760.9/24

Right Out: 0.012 $\pm$ 0.000 χ^2 /NDF: 275134.4/35

Left In: 0.011 $\pm$ 0.000 χ^2 /NDF:204531.5/22

Left: 0.011 $\pm$ 0.000 χ^2 /NDF: 364556.9/47

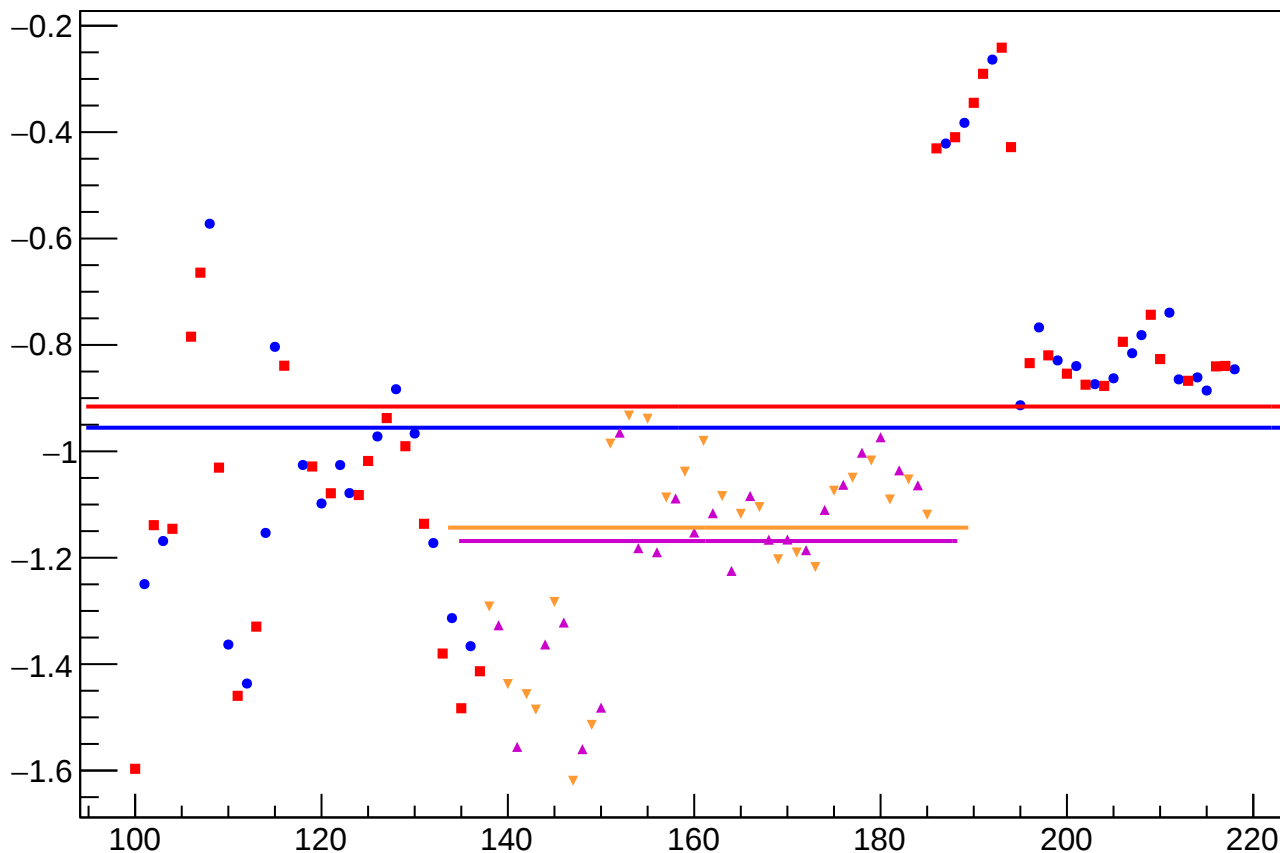
Right: 0.012 $\pm$ 0.000 χ^2 /NDF: 479897.7/68

In: 0.011 $\pm$ 0.000 χ^2 /NDF:784778.6/55

Out: 0.011 $\pm$ 0.000 χ^2 /NDF:714803.3/60

All: 0.011 $\pm$ 0.000 χ^2 /NDF: 1501530.5/116

yield_bpm0i02aY_mean vs Slug, Sign Corrected



Right In: -0.956+/-0.000 χ^2/NDF : 11544832475.1/32

Left Out: -1.143+/-0.000 χ^2/NDF : 7976364534.0/24

Right Out: -0.916+/-0.000 χ^2/NDF : 16139378582.9/35

Left In: -1.169+/-0.000 χ^2/NDF : 6362643368.6/22

Left: -1.156+/-0.000 χ^2/NDF : 14424995220.9/47

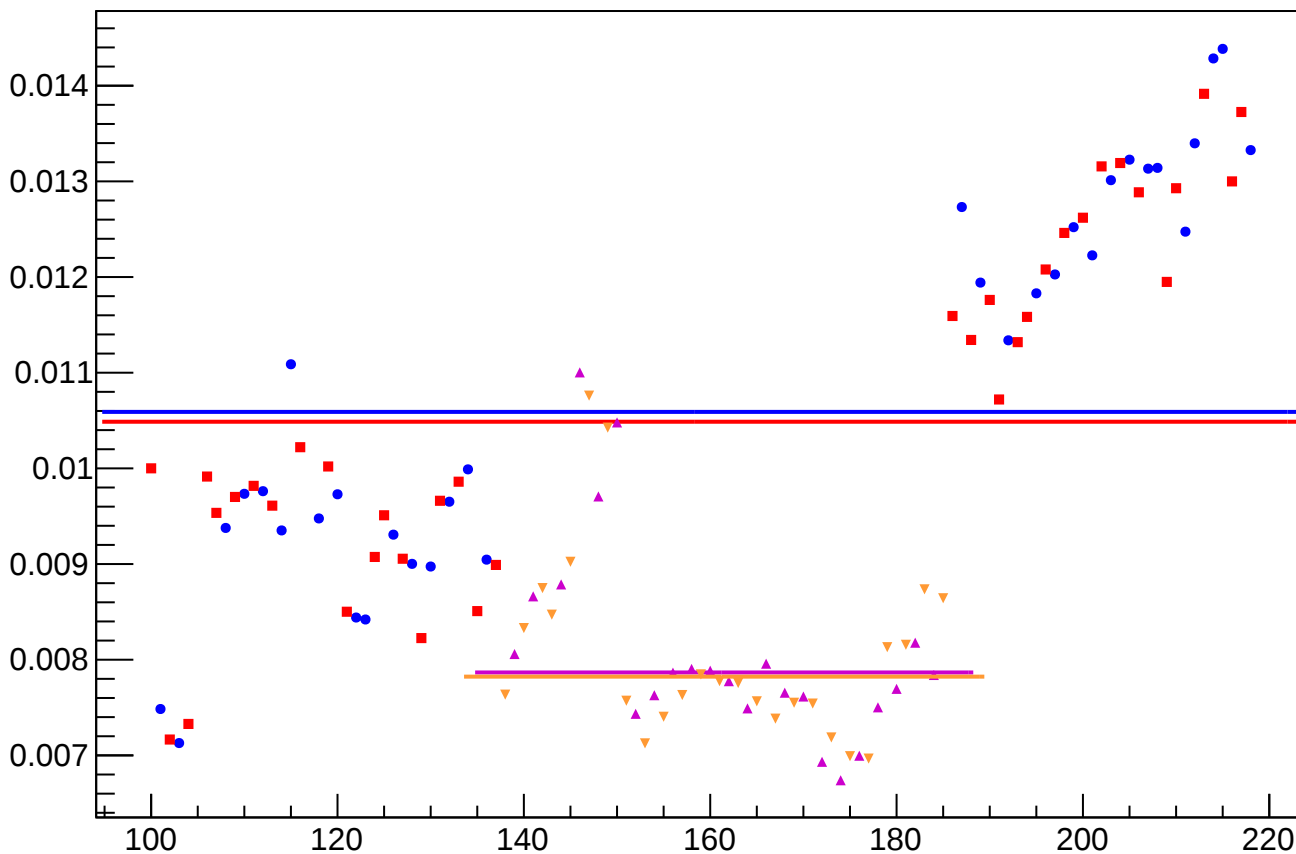
Right: -0.935+/-0.000 χ^2/NDF : 27807001874.6/68

In: -1.090+/-0.000 χ^2/NDF : 22267292039.9/55

Out: -1.061+/-0.000 χ^2/NDF : 29362112664.5/60

All: -1.075+/-0.000 χ^2/NDF : 51813969529.2/100

yield_bpm0i02aY_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 1393604.5/32

Left Out: 0.008+/-0.000 χ^2/NDF :336387.6/24

Right Out: 0.010+/-0.000 χ^2/NDF : 1243745.2/35

Left In: 0.008+/-0.000 χ^2/NDF :379901.3/22

Left: 0.008+/-0.000 χ^2/NDF : 716803.8/47

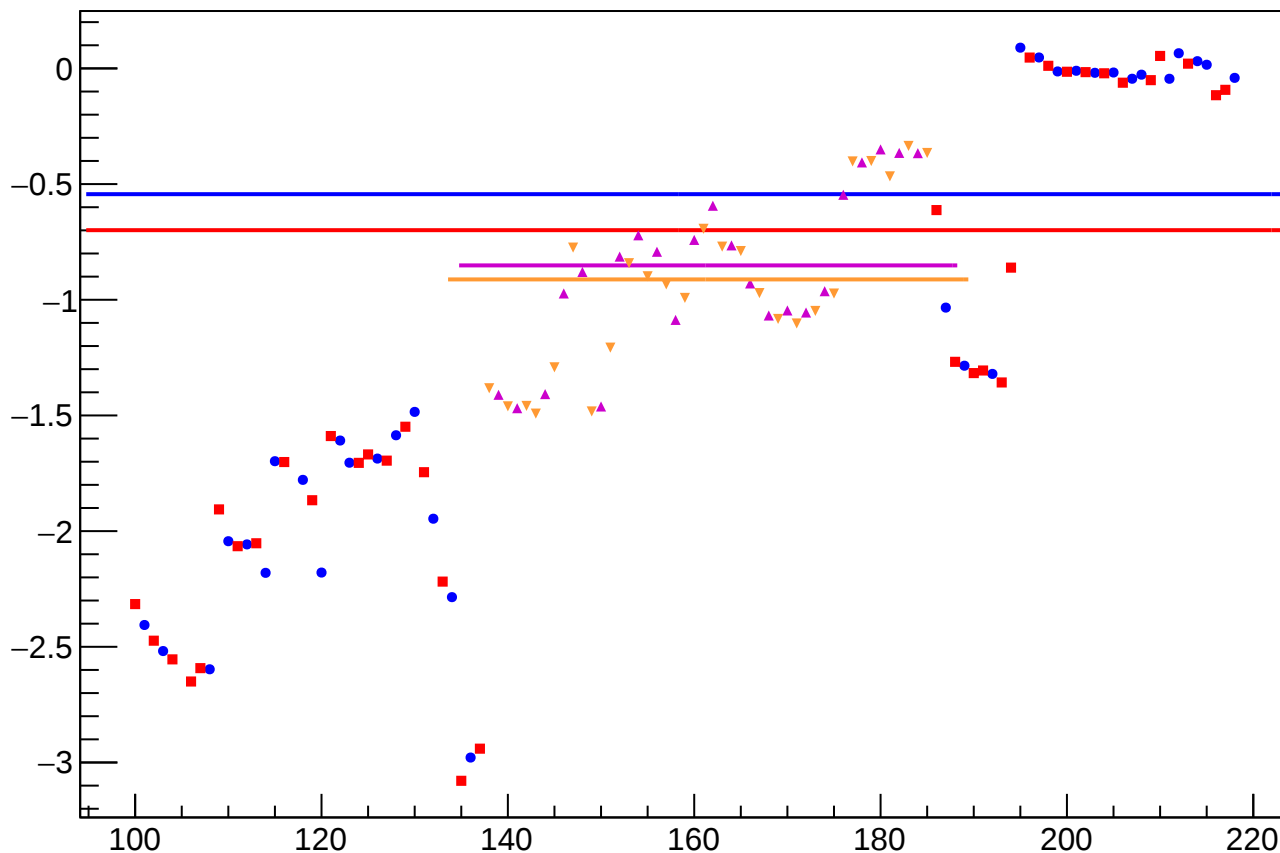
Right: 0.011+/-0.000 χ^2/NDF : 2638991.5/68

In: 0.009+/-0.000 χ^2/NDF :3199050.5/55

Out: 0.009+/-0.000 χ^2/NDF :3018143.6/60

All: 0.009+/-0.000 χ^2/NDF : 6219807.9/116

yield_bpm0i05X_mean vs Slug, Sign Corrected



Right In: -0.544+/-0.000

χ^2/NDF : 412488208471.2/32

Left: -0.882+/-0.000

χ^2/NDF : 96285672564.6/47

Left Out: -0.912+/-0.000

χ^2/NDF : 49039425818.1/24

Right: -0.625+/-0.000

χ^2/NDF : 855563063260.5/68

Right Out: -0.699+/-0.000

χ^2/NDF : 436955766947.1/35

In: -0.689+/-0.000

χ^2/NDF : 480647729772.7/55

Out: -0.797+/-0.000

χ^2/NDF : 496939123380.3/60

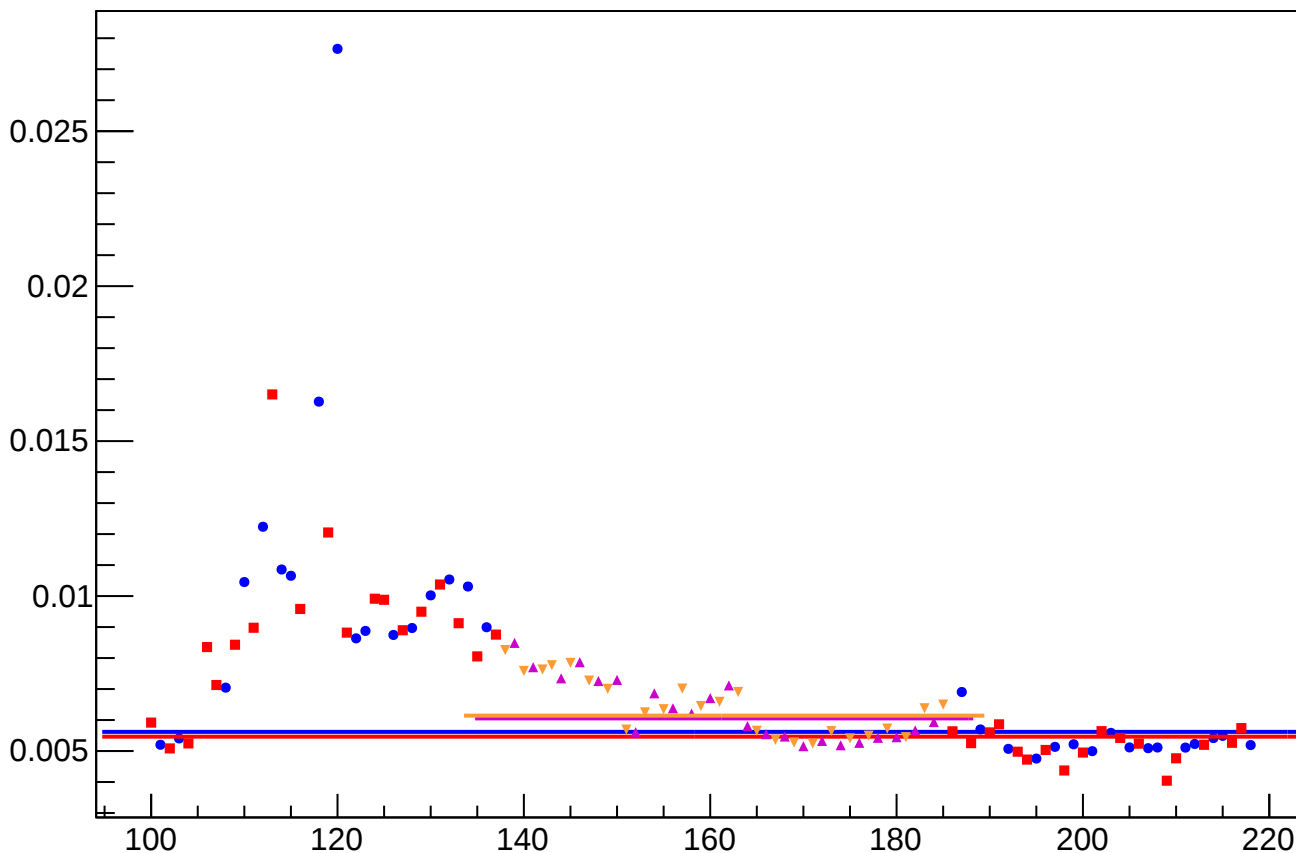
Left In: -0.851+/-0.000

χ^2/NDF : 46438446008.2/22

All: -0.744+/-0.000

χ^2/NDF : 983030687277.1

yield_bpm0i05X_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 2071330.6/32

Left Out: 0.006+/-0.000 χ^2/NDF : 637765.4/24

Right Out: 0.005+/-0.000 χ^2/NDF : 2135114.1/35

Left In: 0.006+/-0.000 χ^2/NDF : 697577.8/22

Left: 0.006+/-0.000 χ^2/NDF : 1338871.2/47

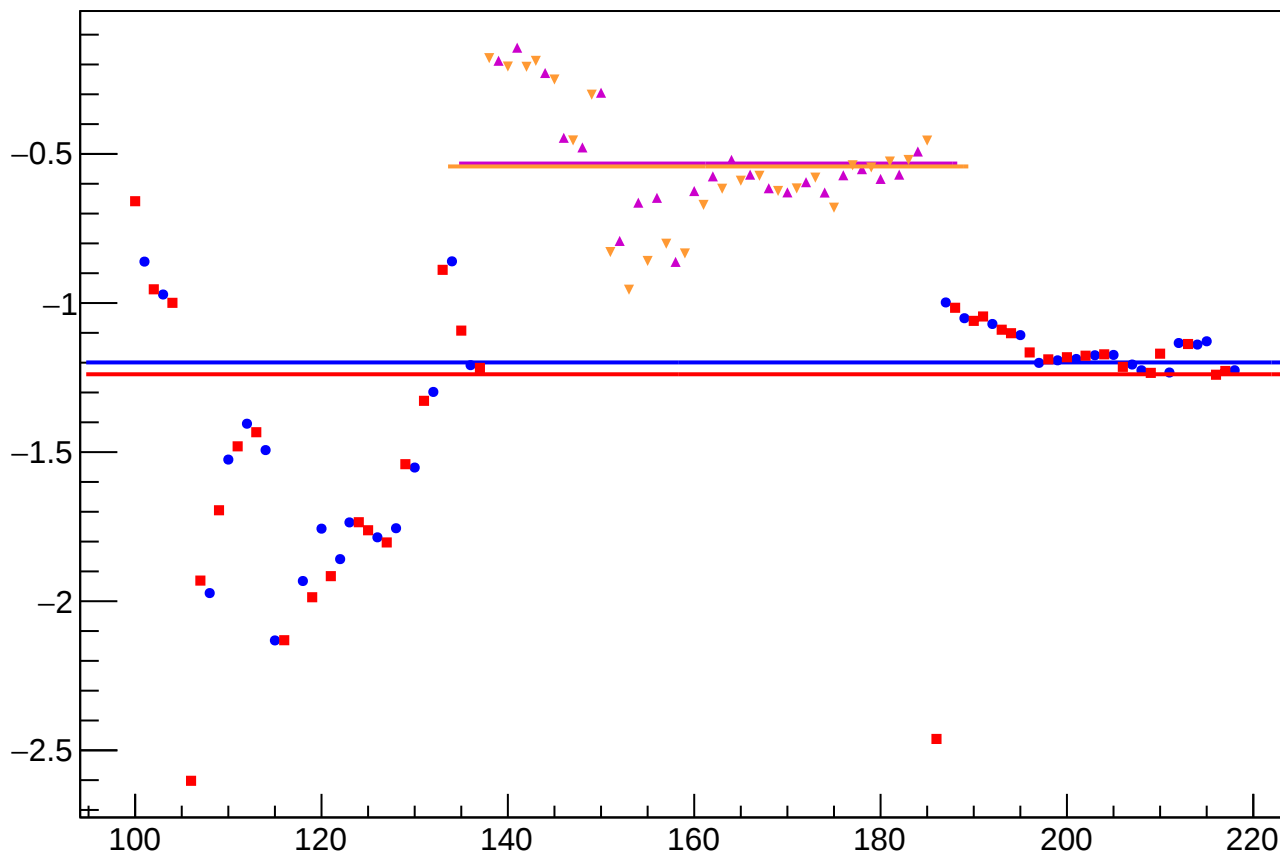
Right: 0.006+/-0.000 χ^2/NDF : 4218539.3/68

In: 0.006+/-0.000 χ^2/NDF : 2855296.0/55

Out: 0.006+/-0.000 χ^2/NDF : 2995221.4/60

All: 0.006+/-0.000 χ^2/NDF : 5852867.5/116

yield_bpm0i05Y_mean vs Slug, Sign Corrected



Right In: -1.199+/-0.000 χ^2/NDF : 26945770728.2/32

Left Out: -0.542+/-0.000 χ^2/NDF : 47268284910.3/24

Right Out: -1.239+/-0.000 χ^2/NDF : 79546452627.2/35

Left In: -0.532+/-0.000 χ^2/NDF : 30715235426.8/22

Left: -0.537+/-0.000 χ^2/NDF : 78028833870.1/47

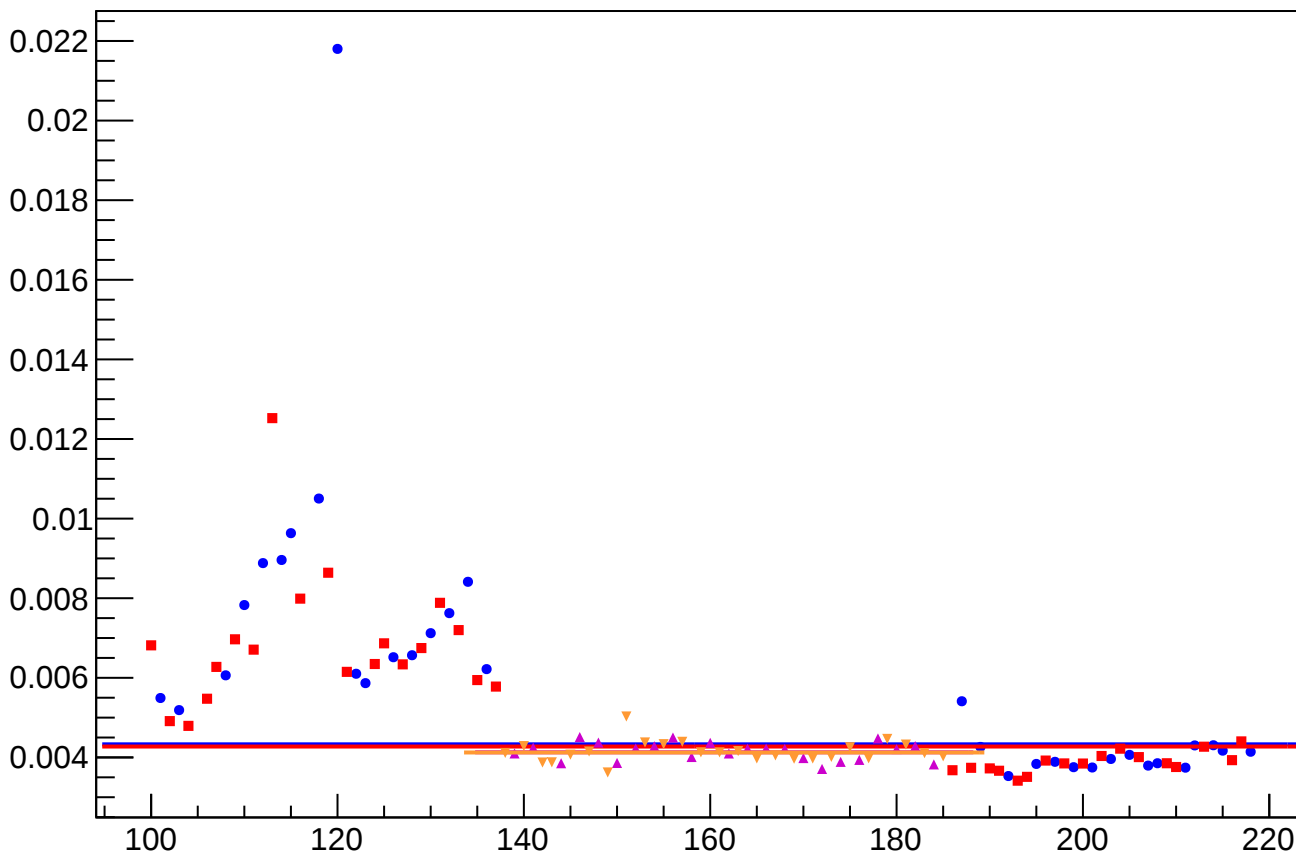
Right: -1.220+/-0.000 χ^2/NDF : 107151026173.0/68

In: -0.842+/-0.000 χ^2/NDF : 251454280184.3/55

Out: -0.866+/-0.000 χ^2/NDF : 350497194869.1/60

All: -0.854+/-0.000 χ^2/NDF : 602428141338.9

yield_bpm0i05Y_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 2075199.3/32

Left Out: 0.004+/-0.000 χ^2/NDF :113033.9/24

Right Out: 0.004+/-0.000 χ^2/NDF : 1899535.0/35

Left In: 0.004+/-0.000 χ^2/NDF :93111.2/22

Left: 0.004+/-0.000 χ^2/NDF : 206172.1/47

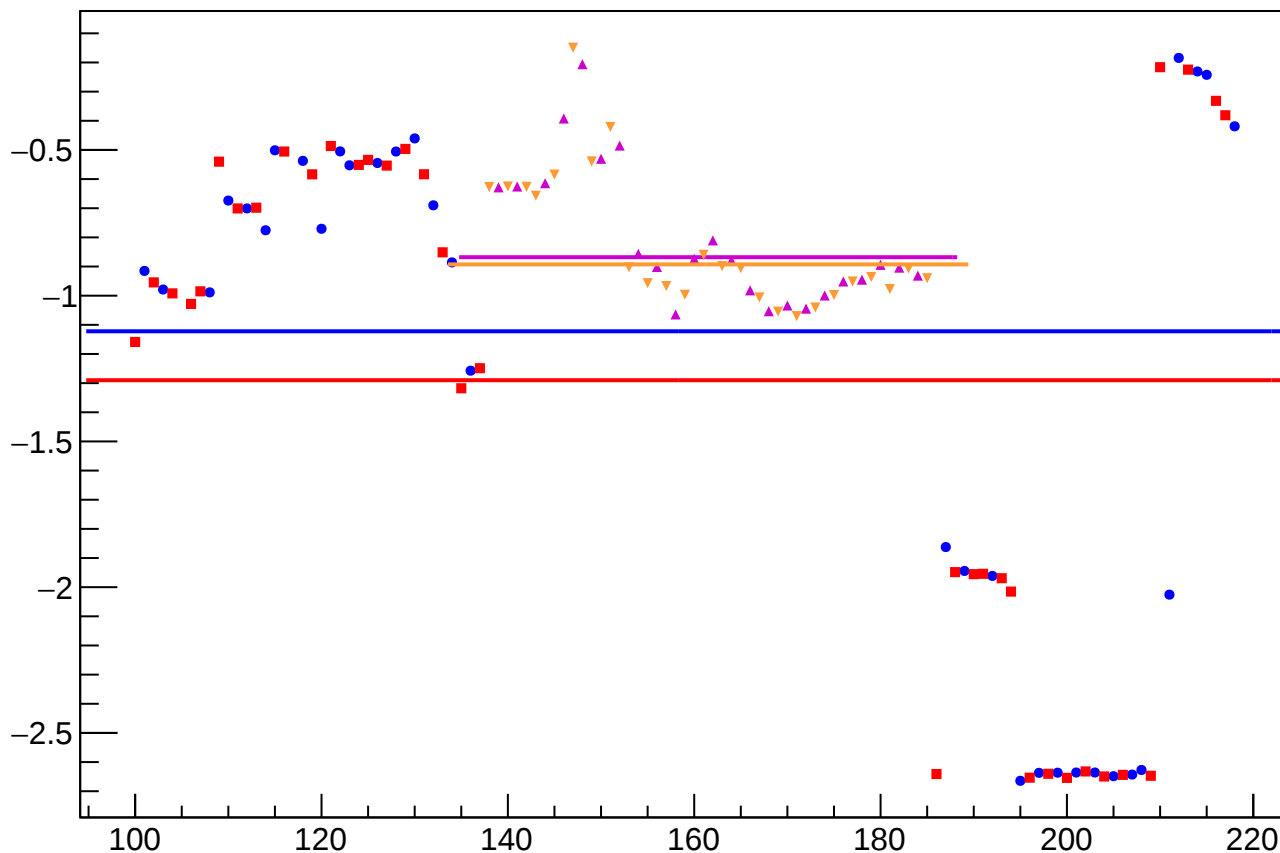
Right: 0.004+/-0.000 χ^2/NDF : 3977290.3/68

In: 0.004+/-0.000 χ^2/NDF :2202877.4/55

Out: 0.004+/-0.000 χ^2/NDF :2033070.7/60

All: 0.004+/-0.000 χ^2/NDF : 4237429.0/116

yield_bpm0i07X_mean vs Slug, Sign Corrected



Right In: -1.122+/-0.000 χ^2/NDF : 569234434250.7/32

Left Out: -0.893+/-0.000 χ^2/NDF : 40787012603.8/24

Right Out: -1.290+/-0.000 χ^2/NDF : 678458308180.1/35

Left In: -0.868+/-0.000 χ^2/NDF : 43853190177.2/22

Left: -0.880+/-0.000 χ^2/NDF : 84980637247.0/47

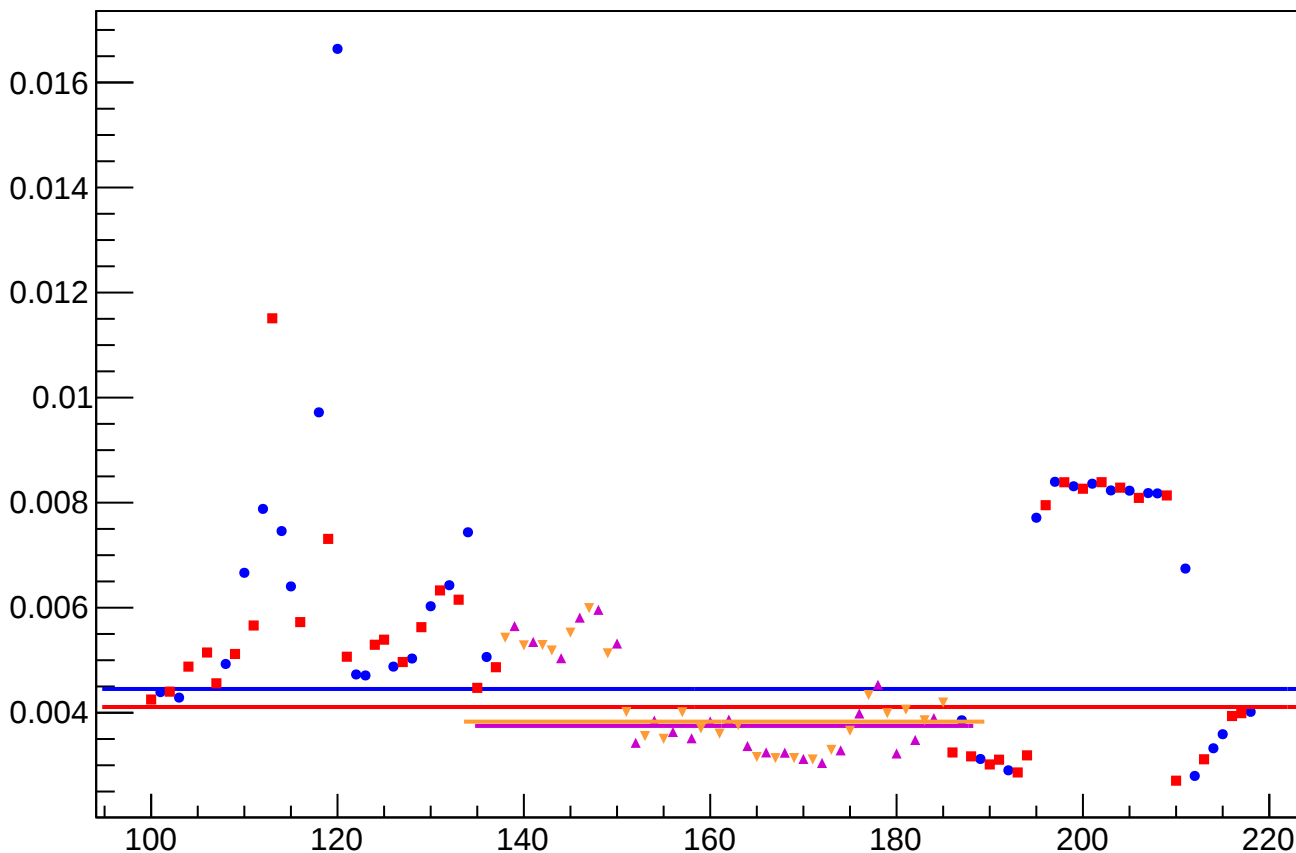
Right: -1.215+/-0.000 χ^2/NDF : 1258974589322.5/6

In: -0.968+/-0.000 χ^2/NDF : 641517111418.1/55

Out: -1.068+/-0.000 χ^2/NDF : 797790901342.6/60

All: -1.021+/-0.000 χ^2/NDF : 1448947531681

yield_bpm0i07X_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 5081575.4/32

Left Out: 0.004+/-0.000 χ^2/NDF :1179801.7/24

Right Out: 0.004+/-0.000 χ^2/NDF : 4716990.0/35

Left In: 0.004+/-0.000 χ^2/NDF :1288490.4/22

Left: 0.004+/-0.000 χ^2/NDF : 2475792.1/47

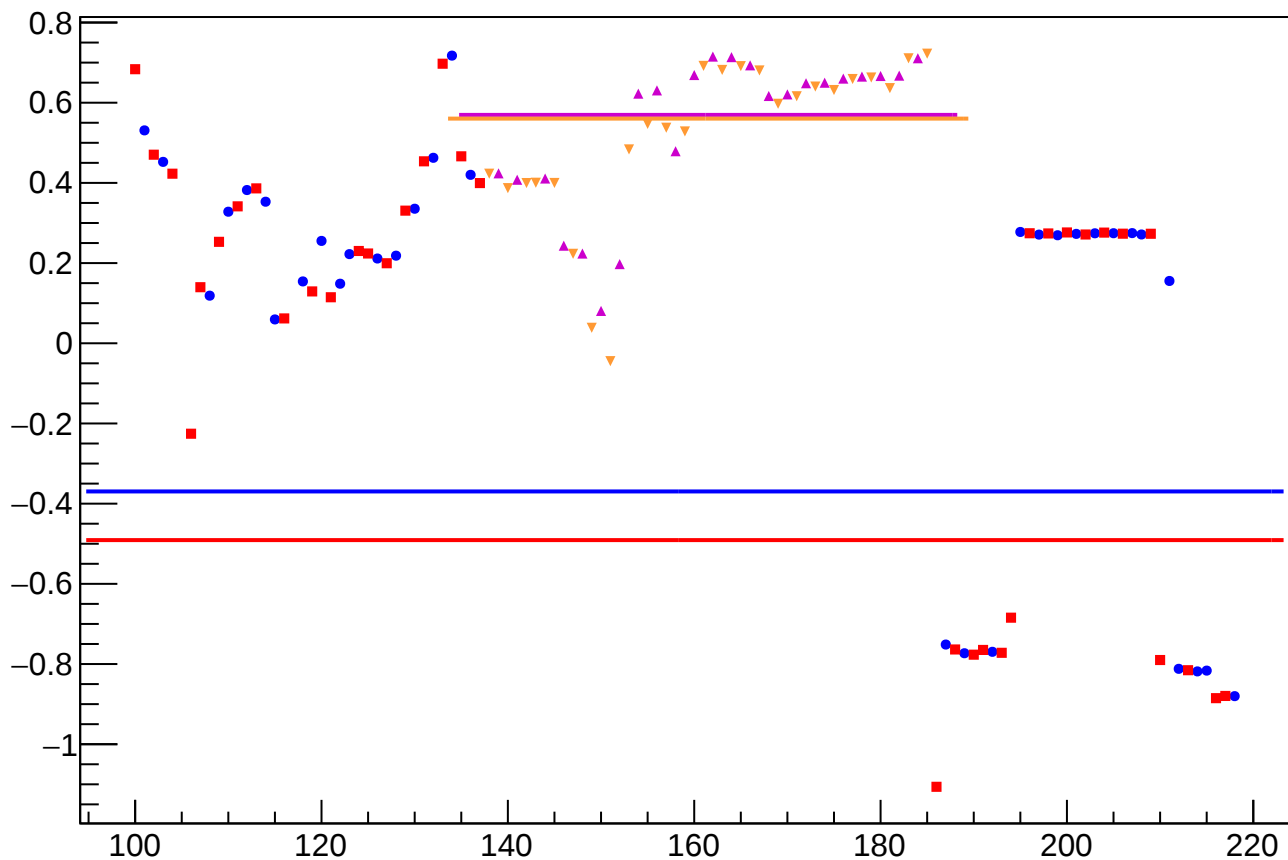
Right: 0.004+/-0.000 χ^2/NDF : 9892898.8/68

In: 0.004+/-0.000 χ^2/NDF :6806090.3/55

Out: 0.004+/-0.000 χ^2/NDF :5974105.0/60

All: 0.004+/-0.000 χ^2/NDF : 12790334.8/116

yield_bpm0i07Y_mean vs Slug, Sign Corrected



Right In: -0.370 ± 0.000 $\chi^2/\text{NDF}: 511949684576.3/32$

Left Out: 0.560 ± 0.000 $\chi^2/\text{NDF}: 45205806387.2/24$

Right Out: -0.491 ± 0.000 $\chi^2/\text{NDF}: 593141992518.7/35$

Left In: 0.570 ± 0.000 $\chi^2/\text{NDF}: 42104067973.0/22$

Left: 0.565 ± 0.000 $\chi^2/\text{NDF}: 87378176036.1/47$

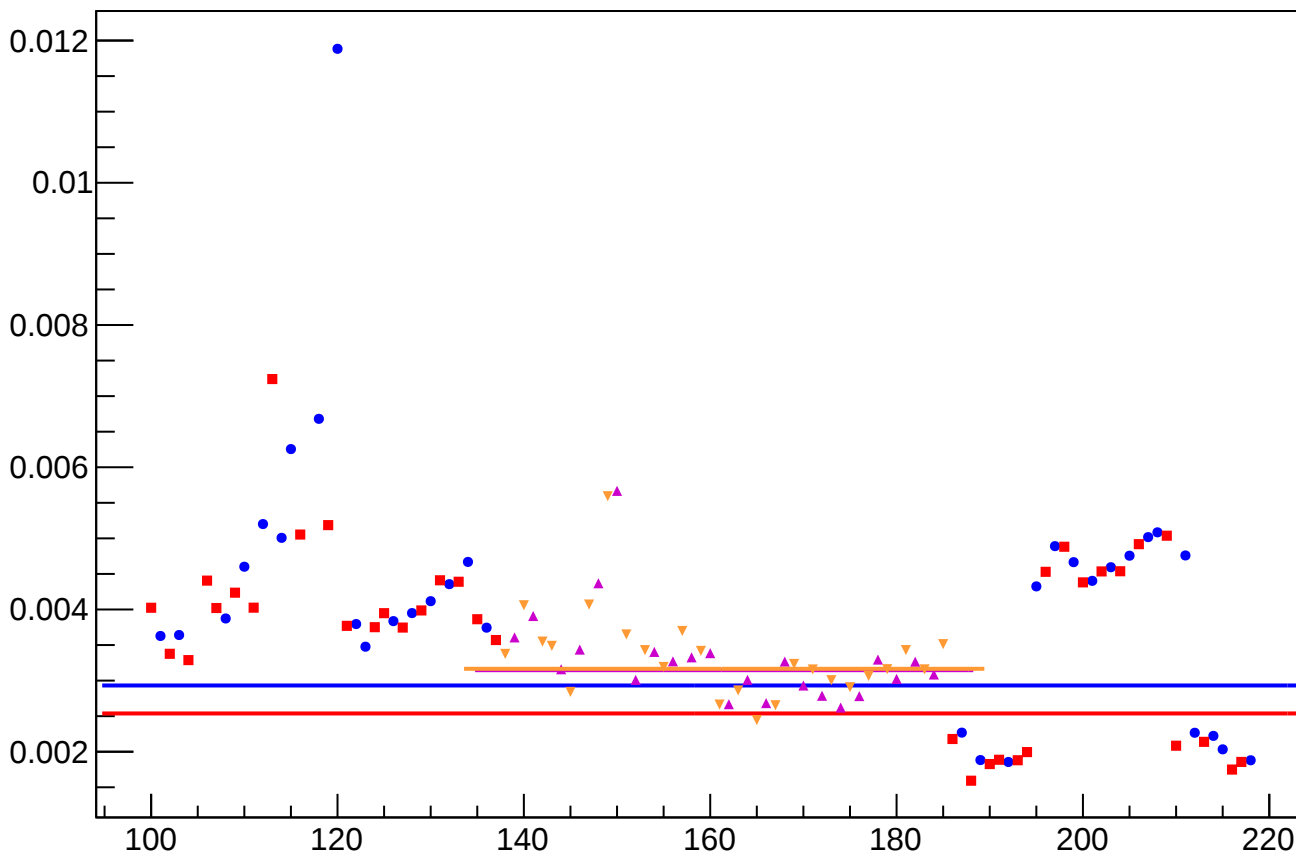
Right: -0.439 ± 0.000 $\chi^2/\text{NDF}: 1119141309289.0/60$

In: 0.084 ± 0.000 $\chi^2/\text{NDF}: 1264766080084.5/55$

Out: -0.048 ± 0.000 $\chi^2/\text{NDF}: 1674024059528.6/60$

All: 0.012 ± 0.000 $\chi^2/\text{NDF}: 2969425844997.0/118$

yield_bpm0i07Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 5082495.5/32

Left Out: 0.003+/-0.000 χ^2/NDF : 744886.7/24

Right Out: 0.003+/-0.000 χ^2/NDF : 5567845.5/35

Left In: 0.003+/-0.000 χ^2/NDF : 716402.8/22

Left: 0.003+/-0.000 χ^2/NDF : 1461906.1/47

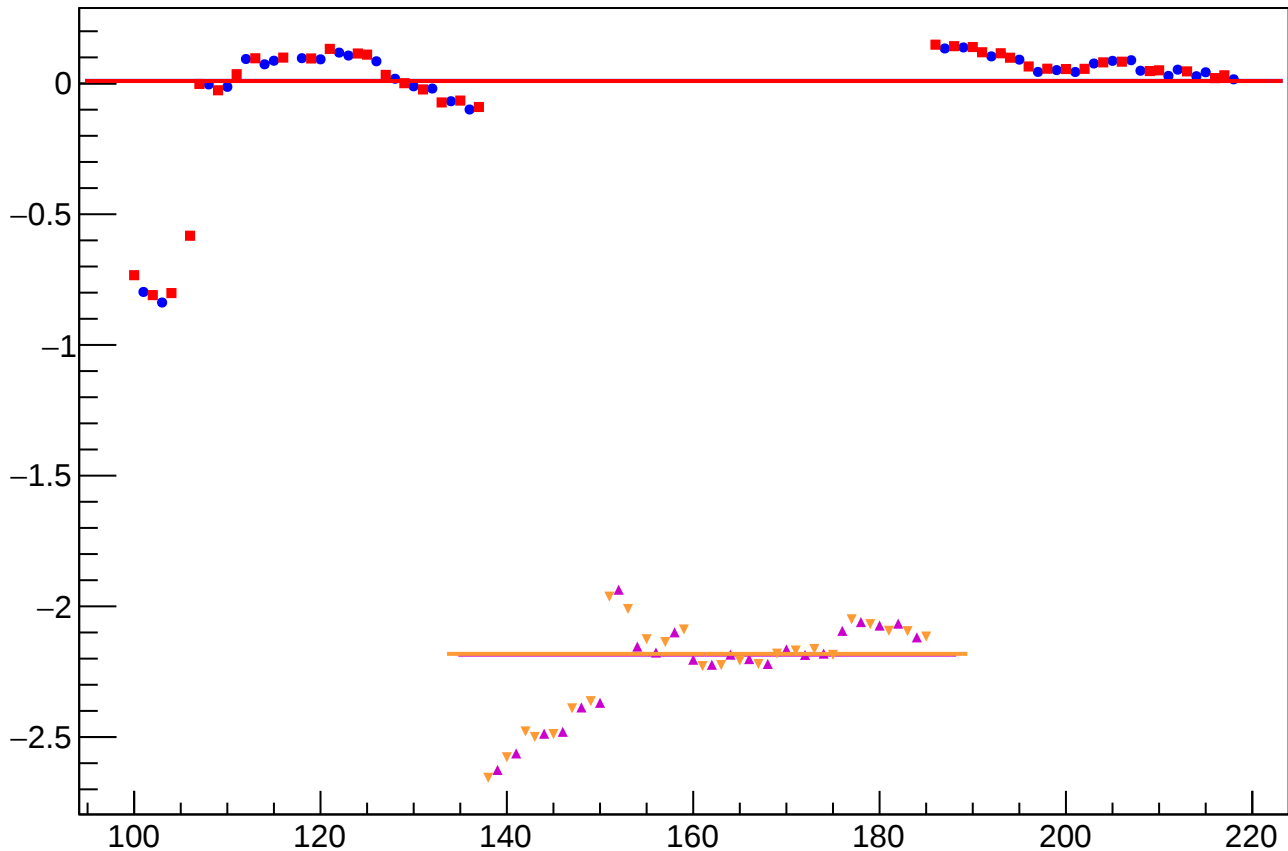
Right: 0.003+/-0.000 χ^2/NDF : 10945339.0/68

In: 0.003+/-0.000 χ^2/NDF : 5873355.0/55

Out: 0.003+/-0.000 χ^2/NDF : 7051733.3/60

All: 0.003+/-0.000 χ^2/NDF : 13114974.6/116

yield_bpm1i02X_mean vs Slug, Sign Corrected



Right In: 0.010+/-0.000

χ^2 /NDF: 5917680447.7/32

Left: -2.183+/-0.000

χ^2 /NDF: 7382310821.5/47

Left Out: -2.182+/-0.000

χ^2 /NDF:4008829567.0/24

Right: 0.010+/-0.000

χ^2 /NDF: 12904744369.1/68

Right Out: 0.010+/-0.000

χ^2 /NDF: 6987032261.9/35

In: -1.099+/-0.000

χ^2 /NDF:384476514648.1/55

Out: -1.102+/-0.000

χ^2 /NDF:408000070971.6/60

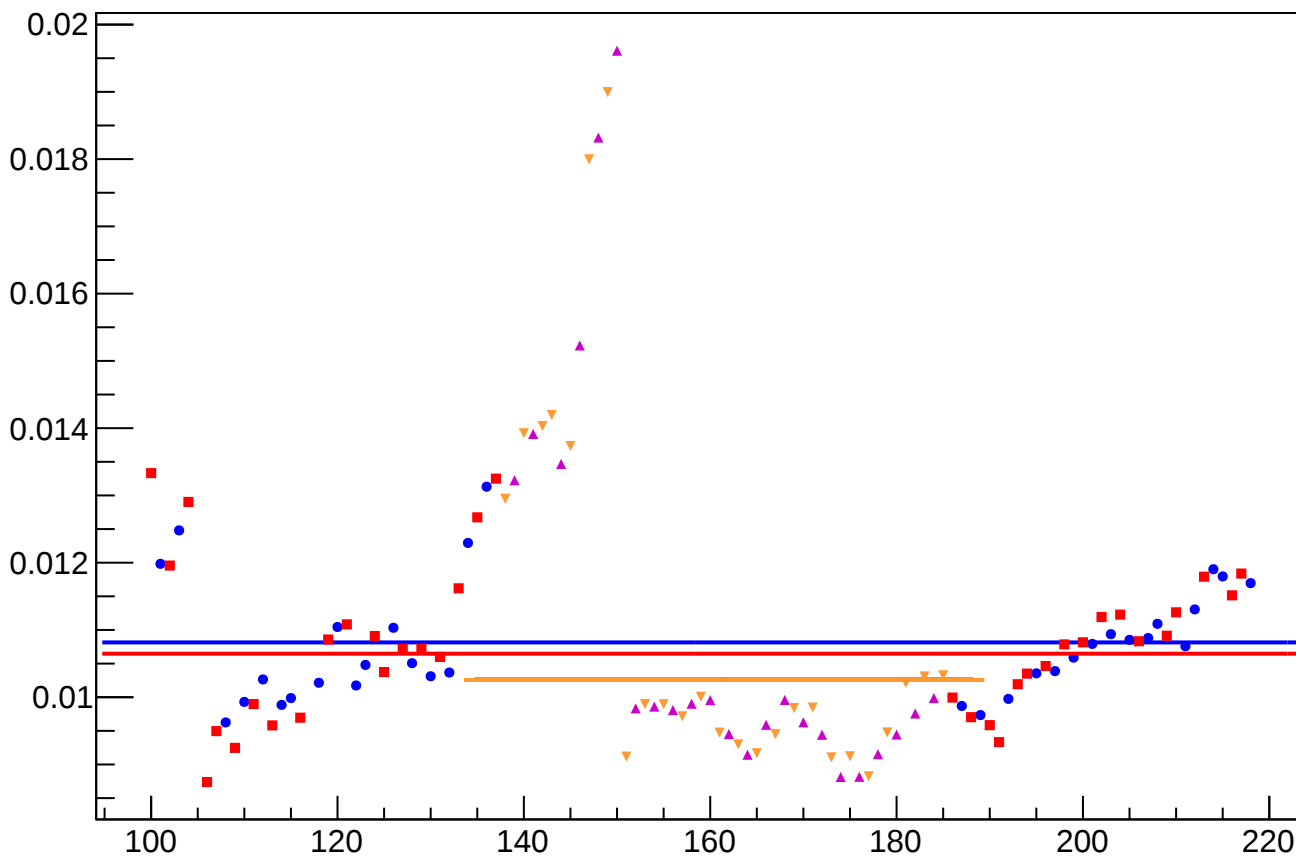
Left In: -2.185+/-0.000

χ^2 /NDF:3372742534.3/22

All: -1.100+/-0.000

χ^2 /NDF: 792478082355.8

yield_bpm1i02X_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 193204.1/32

Left Out: 0.010+/-0.000 χ^2/NDF :1270617.6/24

Right Out: 0.011+/-0.000 χ^2/NDF : 272290.2/35

Left In: 0.010+/-0.000 χ^2/NDF :1340264.2/22

Left: 0.010+/-0.000 χ^2/NDF : 2610893.2/47

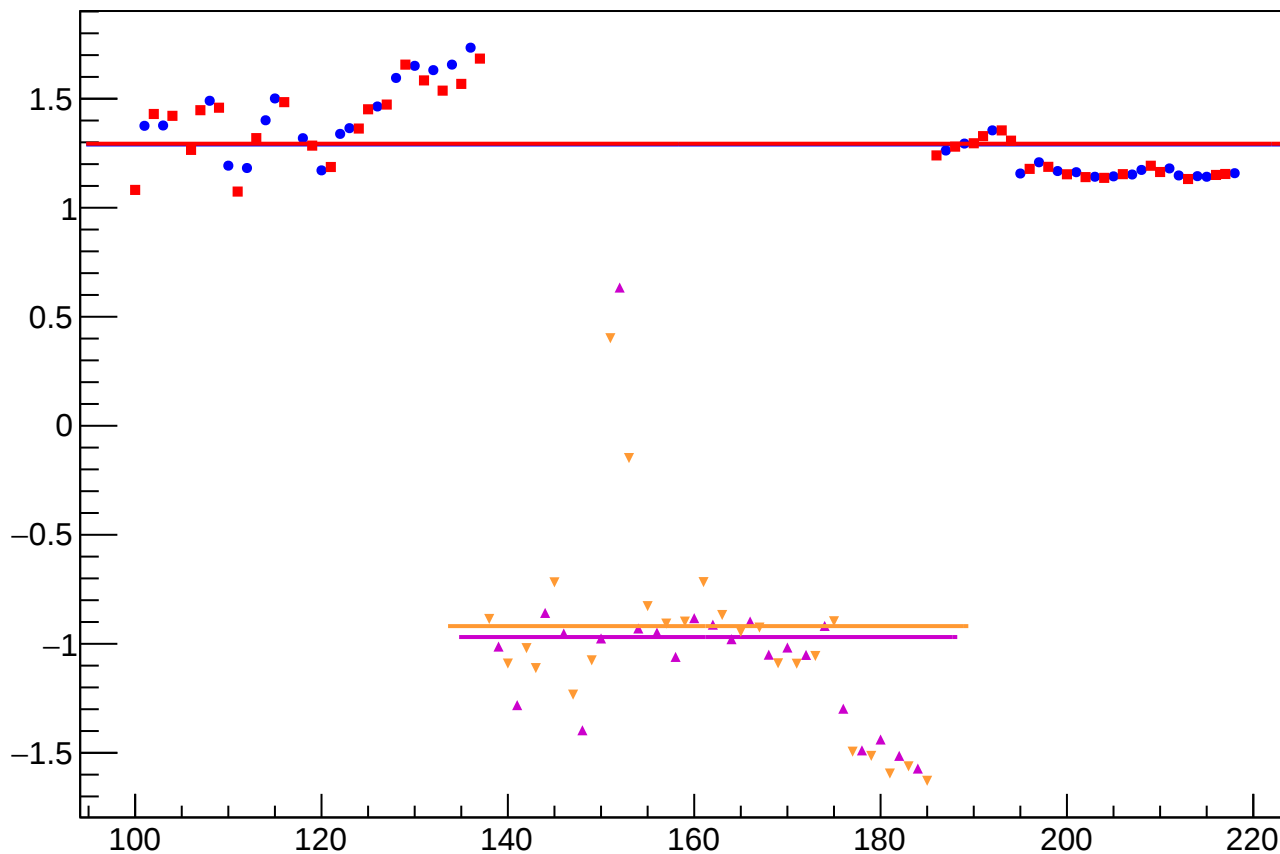
Right: 0.011+/-0.000 χ^2/NDF : 469942.0/68

In: 0.011+/-0.000 χ^2/NDF :1580647.1/55

Out: 0.010+/-0.000 χ^2/NDF :1568213.7/60

All: 0.010+/-0.000 χ^2/NDF : 3151338.9/116

yield_bpm1i02Y_mean vs Slug, Sign Corrected



Right In: 1.290 $\pm$ 0.000

χ^2 /NDF: 8773170576.0/32

Left: -0.943 $\pm$ 0.000

χ^2 /NDF: 110825900215.1/47

Left Out: -0.919 $\pm$ 0.000

χ^2 /NDF: 55622252895.8/24

Right: 1.292 $\pm$ 0.000

χ^2 /NDF: 15700419885.4/68

Right Out: 1.294 $\pm$ 0.000

χ^2 /NDF: 6925277766.3/35

In: 0.283 $\pm$ 0.000

χ^2 /NDF: 740741986075.2/55

Out: 0.310 $\pm$ 0.000

χ^2 /NDF: 748150863233.7/60

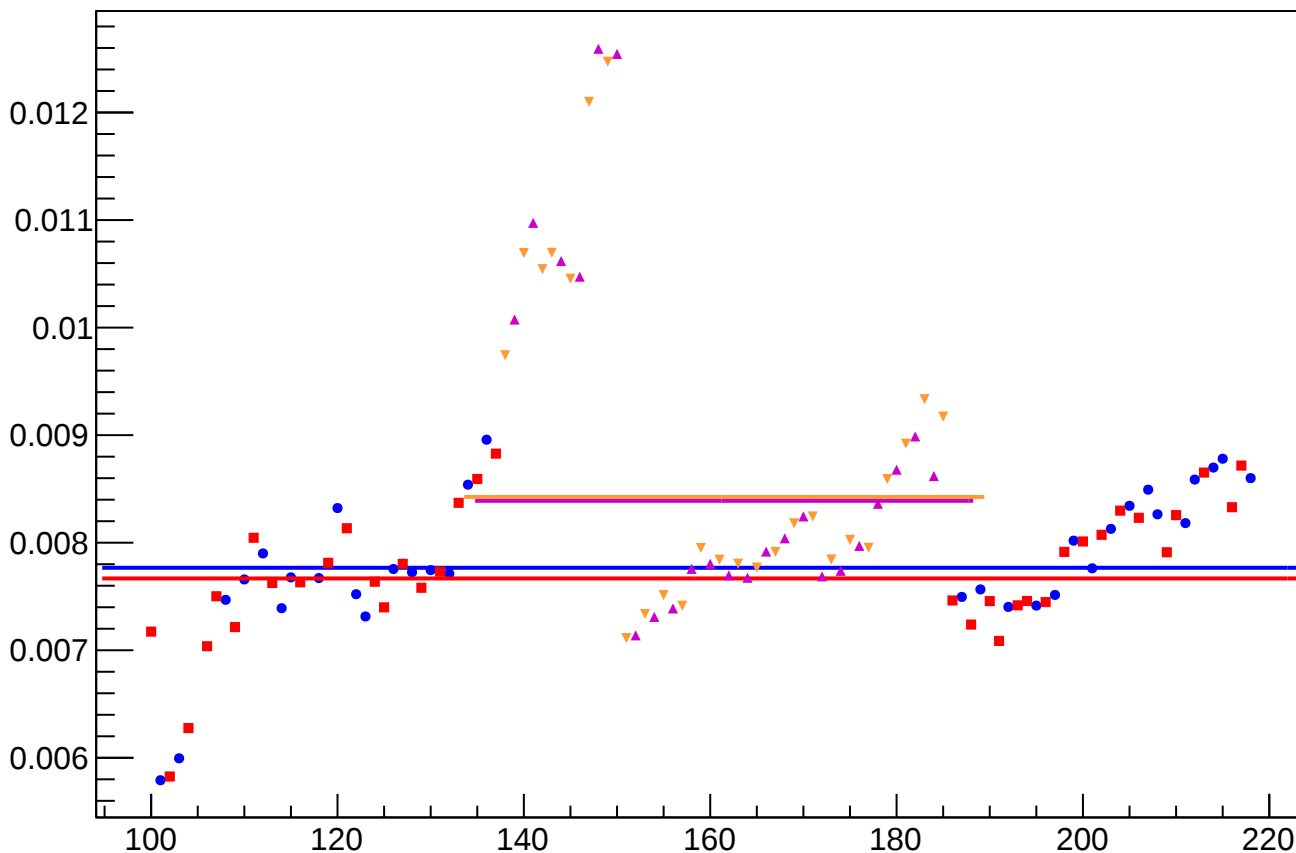
Left In: -0.969 $\pm$ 0.000

χ^2 /NDF: 54895002535.8/22

All: 0.297 $\pm$ 0.000

χ^2 /NDF: 1489100805049.

yield_bpm1i02Y_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 379548.7/32

Left Out: 0.008+/-0.000 χ^2/NDF : 792337.0/24

Right Out: 0.008+/-0.000 χ^2/NDF : 293770.2/35

Left In: 0.008+/-0.000 χ^2/NDF : 839880.4/22

Left: 0.008+/-0.000 χ^2/NDF : 1632536.0/47

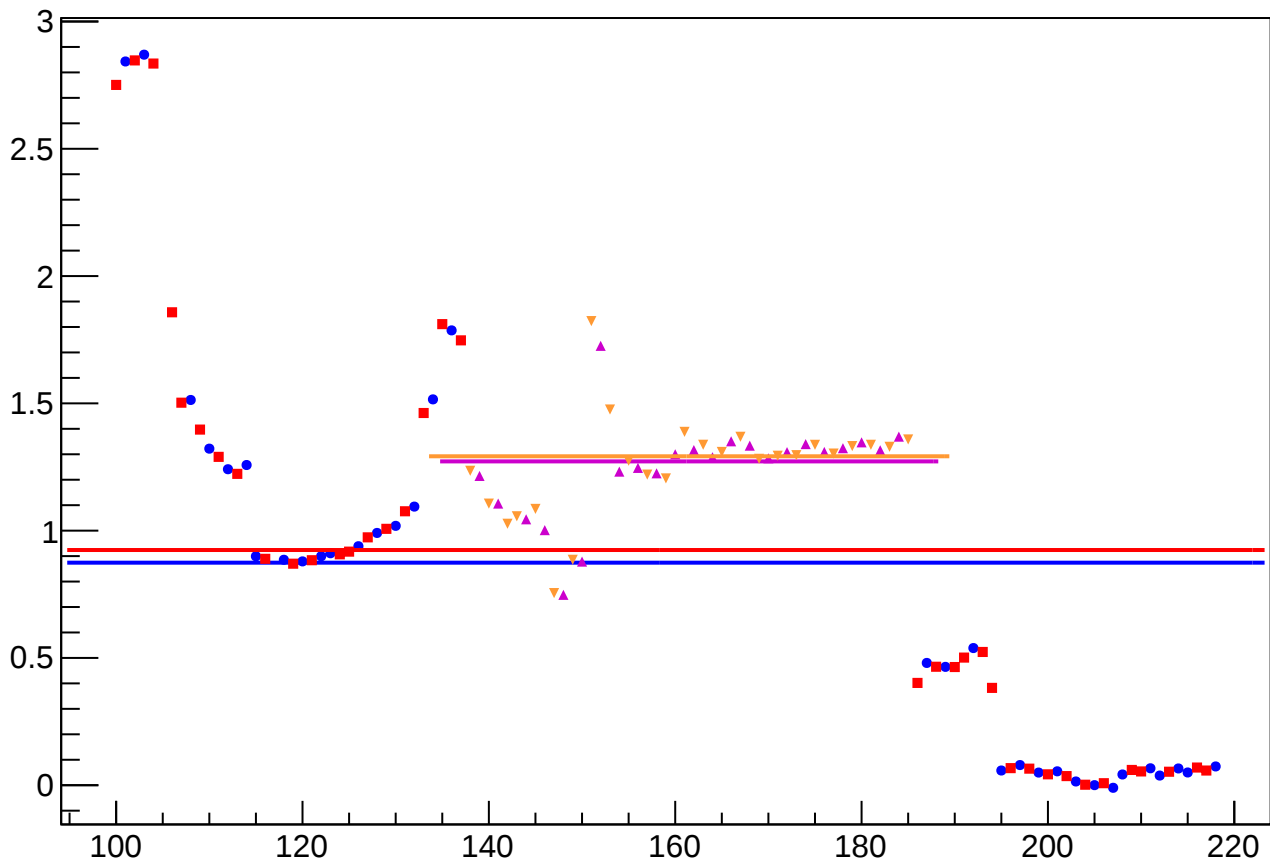
Right: 0.008+/-0.000 χ^2/NDF : 676328.1/68

In: 0.008+/-0.000 χ^2/NDF : 1322297.3/55

Out: 0.008+/-0.000 χ^2/NDF : 1246969.8/60

All: 0.008+/-0.000 χ^2/NDF : 2570147.5/116

yield_bpm1i04X_mean vs Slug, Sign Corrected



Right In: 0.874+/-0.000 χ^2/NDF : 146325066783.1/32

Left Out: 1.292+/-0.000 χ^2/NDF : 9305298695.5/24

Right Out: 0.924+/-0.000 χ^2/NDF : 140260854883.5/35

Left In: 1.272+/-0.000 χ^2/NDF : 7573930981.2/22

Left: 1.282+/-0.000 χ^2/NDF : 16930321584.4/47

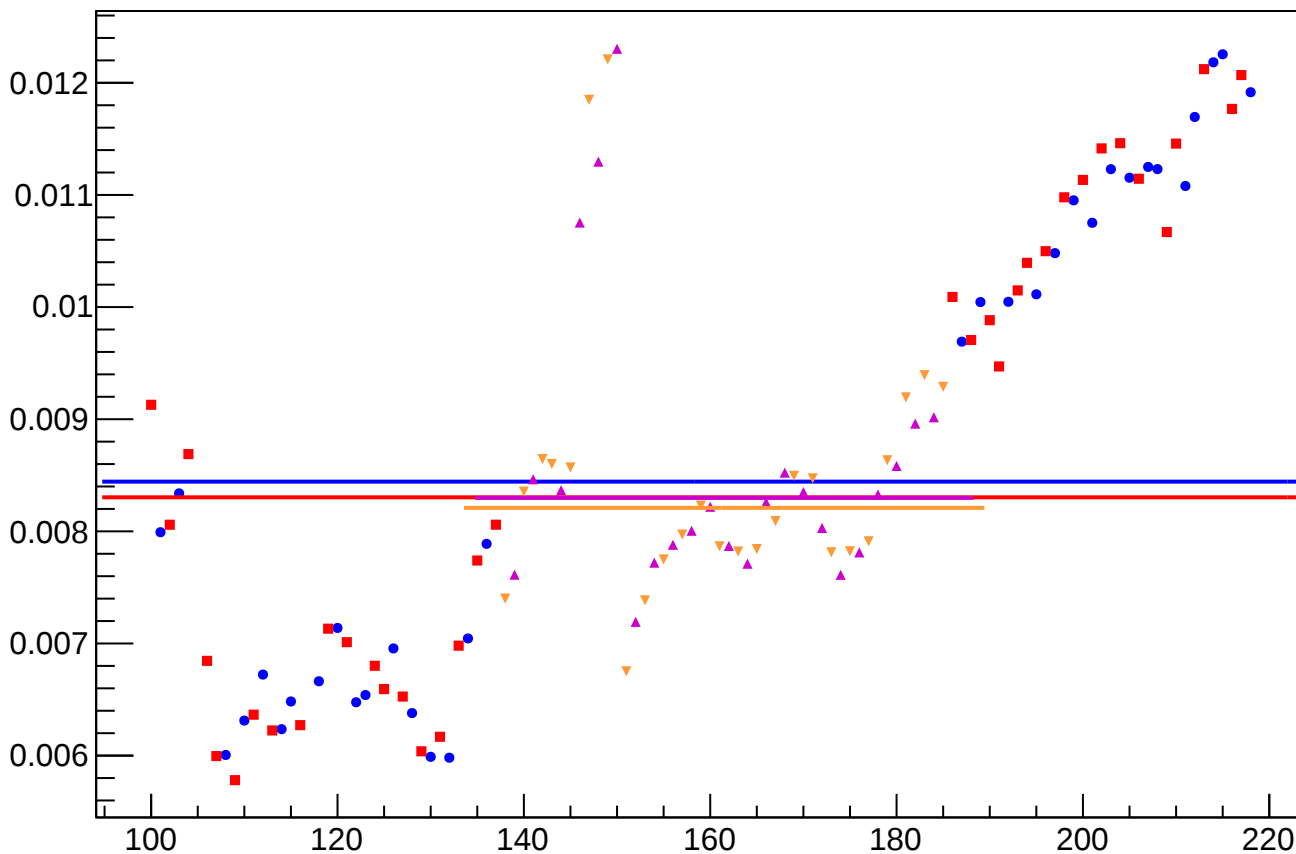
Right: 0.900+/-0.000 χ^2/NDF : 286889765815.2/68

In: 1.075+/-0.000 χ^2/NDF : 172965696599.3/55

Out: 1.111+/-0.000 χ^2/NDF : 167056639480.7/60

All: 1.094+/-0.000 χ^2/NDF : 340348683975.8

yield_bpm1i04X_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 2281395.8/32

Left Out: 0.008+/-0.000 χ^2/NDF : 478864.9/24

Right Out: 0.008+/-0.000 χ^2/NDF : 2345647.3/35

Left In: 0.008+/-0.000 χ^2/NDF : 462022.1/22

Left: 0.008+/-0.000 χ^2/NDF : 942877.3/47

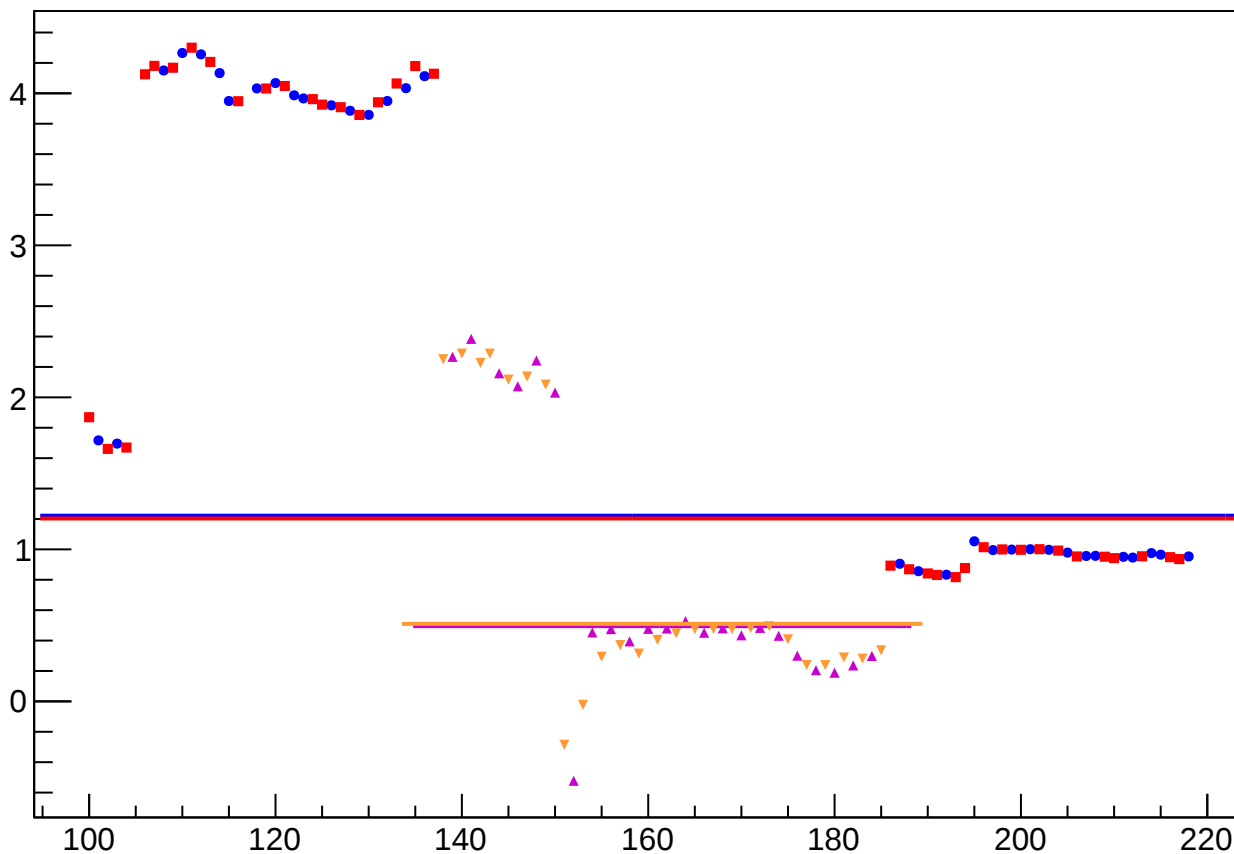
Right: 0.008+/-0.000 χ^2/NDF : 4631855.4/68

In: 0.008+/-0.000 χ^2/NDF : 2748487.1/55

Out: 0.008+/-0.000 χ^2/NDF : 2826784.0/60

All: 0.008+/-0.000 χ^2/NDF : 5581799.2/116

yield_bpm1i04Y_mean vs Slug, Sign Corrected



Right In: 1.221+/-0.000

χ^2/NDF : 1542519421436.2/32

Left Out: 0.510+/-0.000

χ^2/NDF : 274818814912.4/24

Right Out: 1.203+/-0.000

χ^2/NDF : 1732482946012.8/35

Left In: 0.495+/-0.000

χ^2/NDF : 268863202792.4/22

Left: 0.503+/-0.000

χ^2/NDF : 543767842878.3/47

Right: 1.212+/-0.000

χ^2/NDF : 3275368720789.6/68

In: 1.034+/-0.000

χ^2/NDF : 2107924274824.3/55

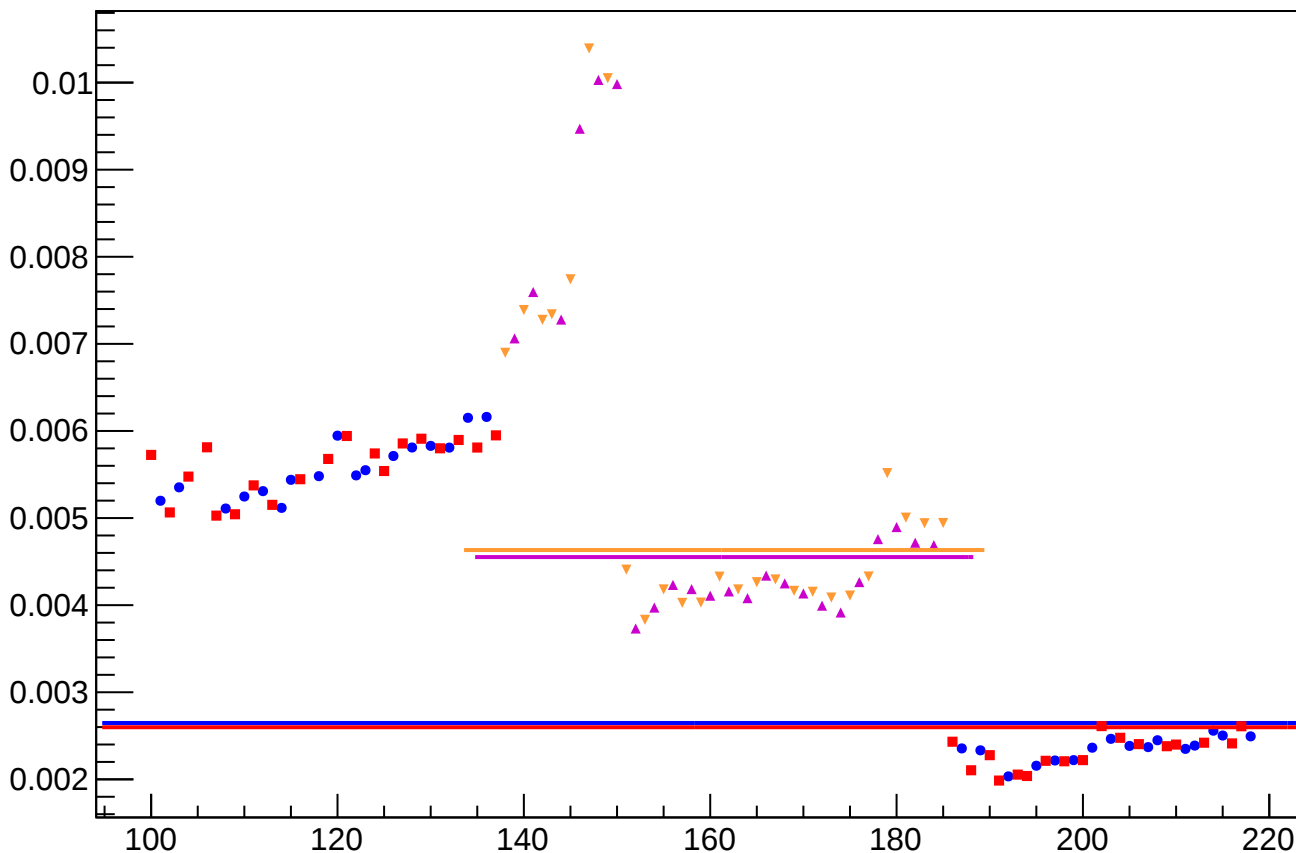
Out: 1.028+/-0.000

χ^2/NDF : 2286403325137.0/60

All: 1.031+/-0.000

χ^2/NDF : 4394371441230.0/117

yield_bpm1i04Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 4197147.8/32

Left Out: 0.005+/-0.000 χ^2/NDF :2114007.7/24

Right Out: 0.003+/-0.000 χ^2/NDF : 4481700.8/35

Left In: 0.005+/-0.000 χ^2/NDF :2237666.9/22

Left: 0.005+/-0.000 χ^2/NDF : 4356682.7/47

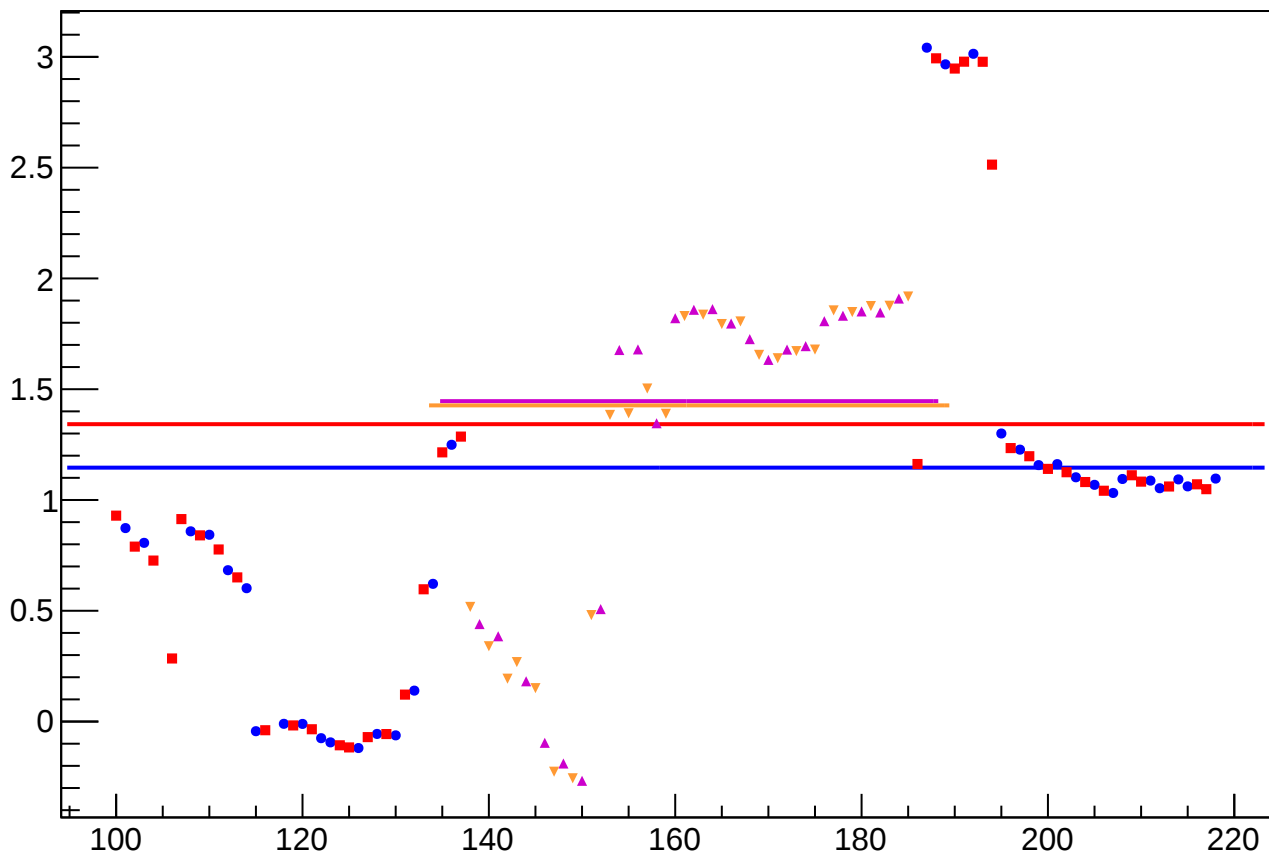
Right: 0.003+/-0.000 χ^2/NDF : 8684230.8/68

In: 0.003+/-0.000 χ^2/NDF :10514708.3/55

Out: 0.003+/-0.000 χ^2/NDF :11404659.8/60

All: 0.003+/-0.000 χ^2/NDF : 21921677.3/116

yield_bpm1i06X_mean vs Slug, Sign Corrected



Right In: 1.146+/-0.000

χ^2/NDF : 72912361043.7/32

Left: 1.436+/-0.000

χ^2/NDF : 103768857952.7/47

Left Out: 1.427+/-0.000

χ^2/NDF : 49990787038.3/24

Right: 1.247+/-0.000

χ^2/NDF : 176820982498.1/68

Right Out: 1.342+/-0.000

χ^2/NDF : 101839515987.7/35

In: 1.317+/-0.000

χ^2/NDF : 131995805231.9/55

Out: 1.390+/-0.000

χ^2/NDF : 152279496046.1/60

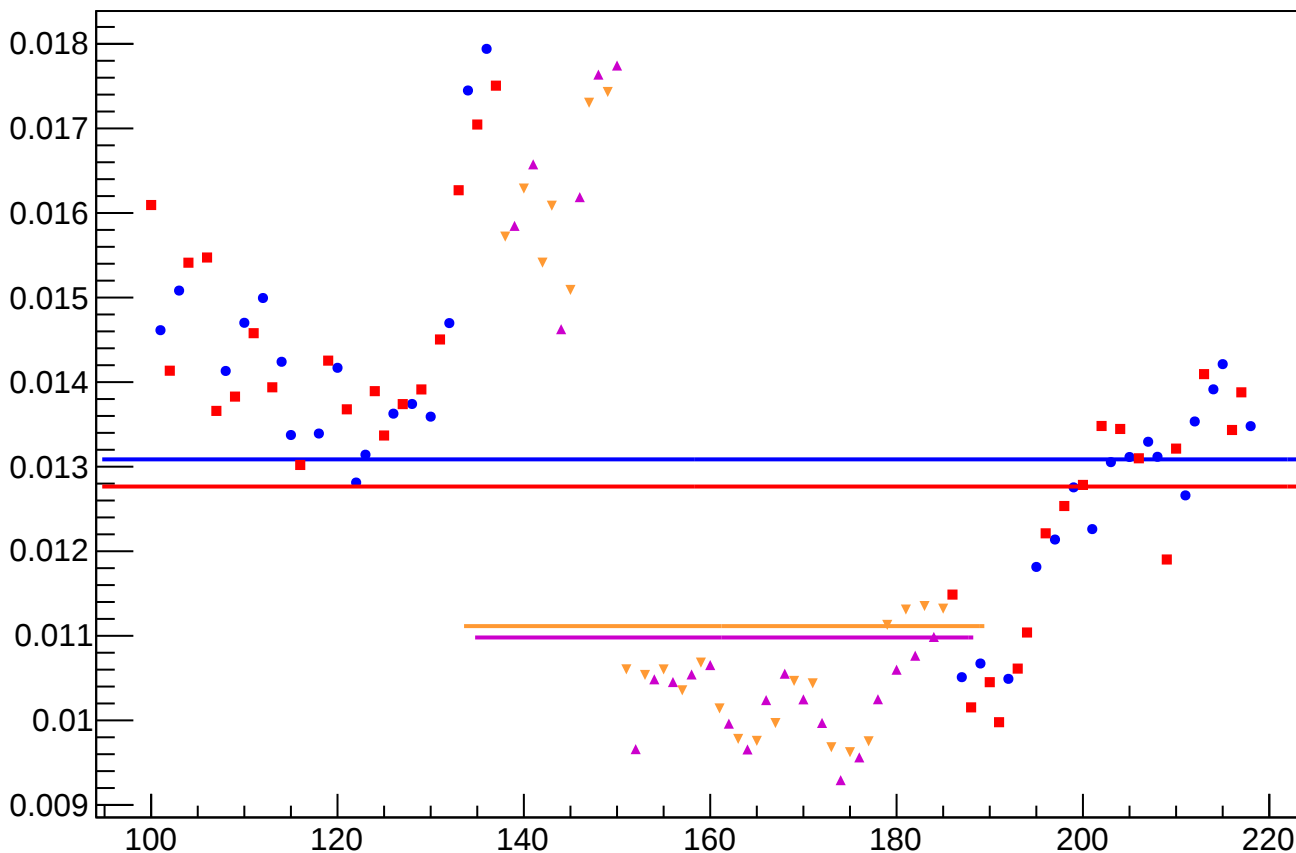
Left In: 1.446+/-0.000

χ^2/NDF : 53752493130.3/22

All: 1.354+/-0.000

χ^2/NDF : 284932934189.2

yield_bpm1i06X_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 456322.8/32

Left Out: 0.011+/-0.000 χ^2/NDF :1227493.2/24

Right Out: 0.013+/-0.000 χ^2/NDF : 597683.7/35

Left In: 0.011+/-0.000 χ^2/NDF :1264827.0/22

Left: 0.011+/-0.000 χ^2/NDF : 2494847.1/47

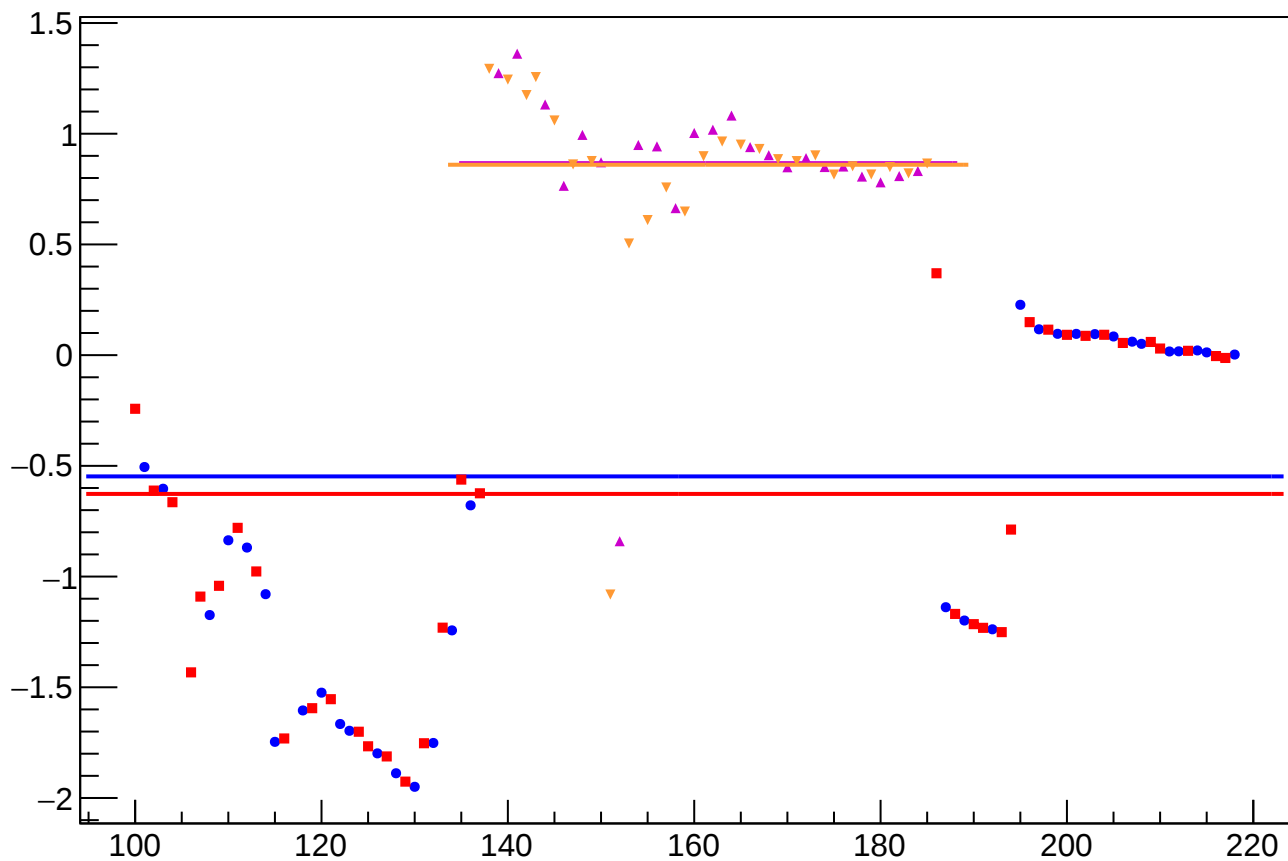
Right: 0.013+/-0.000 χ^2/NDF : 1065098.8/68

In: 0.012+/-0.000 χ^2/NDF :2246192.0/55

Out: 0.012+/-0.000 χ^2/NDF :2165366.4/60

All: 0.012+/-0.000 χ^2/NDF : 4412133.3/116

yield_bpm1i06Y_mean vs Slug, Sign Corrected



Right In: -0.548 ± 0.000 $\chi^2/\text{NDF}: 203932267464.2/32$

Left Out: 0.860 ± 0.000 $\chi^2/\text{NDF}: 126335891175.4/24$

Right Out: -0.627 ± 0.000 $\chi^2/\text{NDF}: 190482532653.0/35$

Left In: 0.867 ± 0.000 $\chi^2/\text{NDF}: 147039402944.6/22$

Left: 0.863 ± 0.000 $\chi^2/\text{NDF}: 273407894621.9/47$

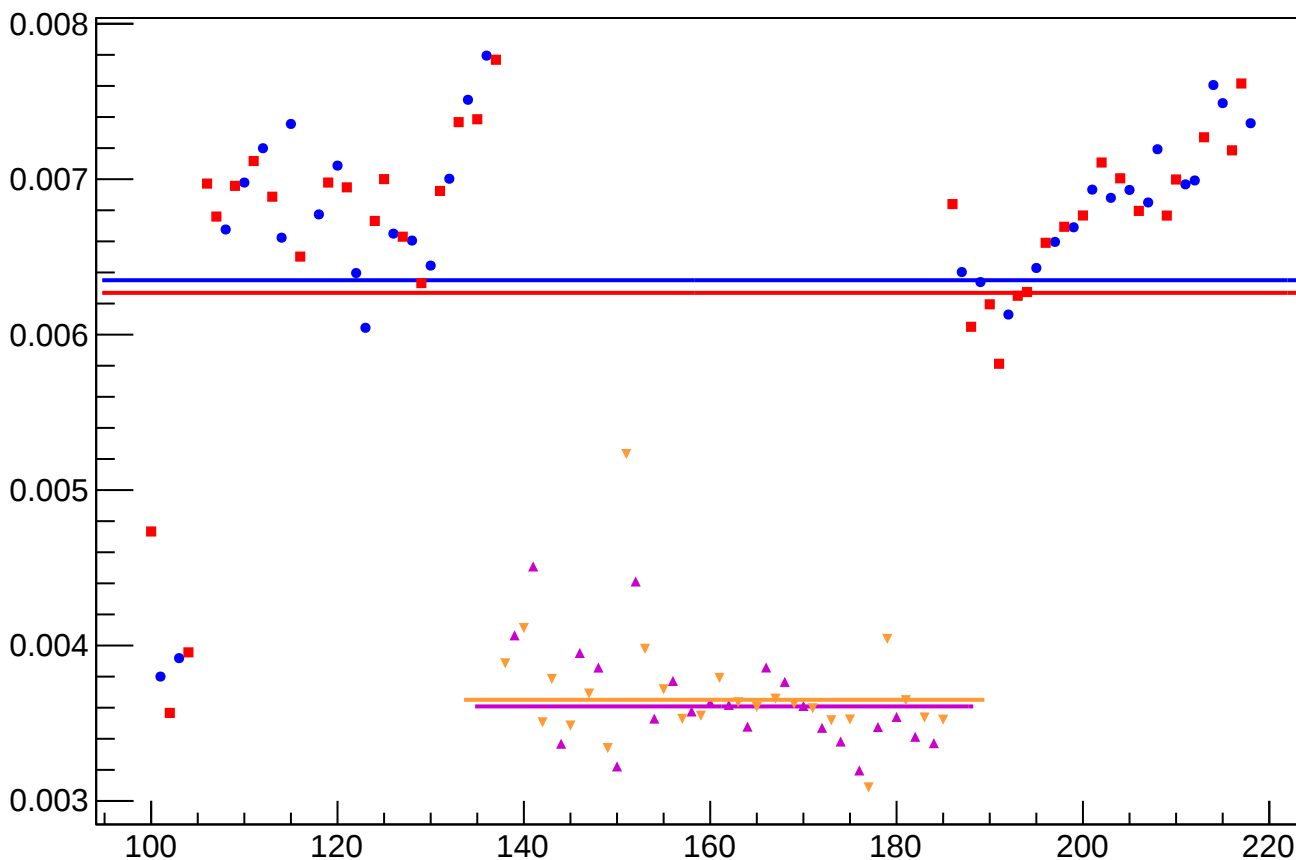
Right: -0.588 ± 0.000 $\chi^2/\text{NDF}: 395755253624.0/68$

In: 0.503 ± 0.000 $\chi^2/\text{NDF}: 972384239329.5/55$

Out: 0.474 ± 0.000 $\chi^2/\text{NDF}: 1035035958965.3/60$

All: 0.489 ± 0.000 $\chi^2/\text{NDF}: 2008110574161.0/107$

yield_bpm1i06Y_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 1171288.0/32

Left Out: 0.004+/-0.000 χ^2/NDF :237262.6/24

Right Out: 0.006+/-0.000 χ^2/NDF : 1227235.7/35

Left In: 0.004+/-0.000 χ^2/NDF :227861.4/22

Left: 0.004+/-0.000 χ^2/NDF : 467360.2/47

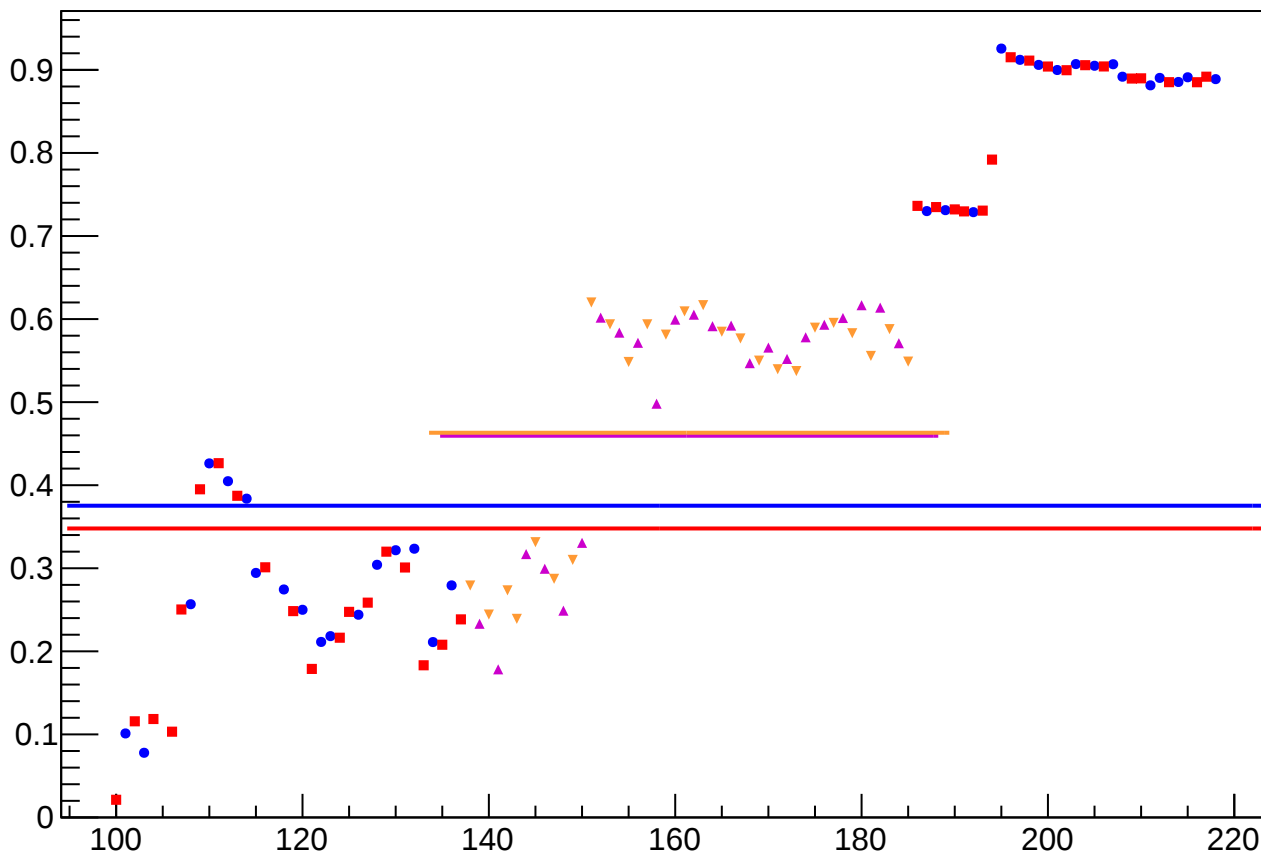
Right: 0.006+/-0.000 χ^2/NDF : 2401350.0/68

In: 0.004+/-0.000 χ^2/NDF :6067146.1/55

Out: 0.004+/-0.000 χ^2/NDF :5919143.2/60

All: 0.004+/-0.000 χ^2/NDF : 11986725.9/116

yield_bpm2i01X_mean vs Slug, Sign Corrected



Right In: 0.375+/-0.000

χ^2/NDF : 203834050871.9/32

Left: 0.461+/-0.000

χ^2/NDF : 207093695005.5/47

Left Out: 0.463+/-0.000

χ^2/NDF : 102506270538.7/24

Right: 0.361+/-0.000

χ^2/NDF : 416917806319.6/68

Right Out: 0.348+/-0.000

χ^2/NDF : 211896592912.0/35

In: 0.424+/-0.000

χ^2/NDF : 320871414739.9/55

Out: 0.415+/-0.000

χ^2/NDF : 339996811677.4/60

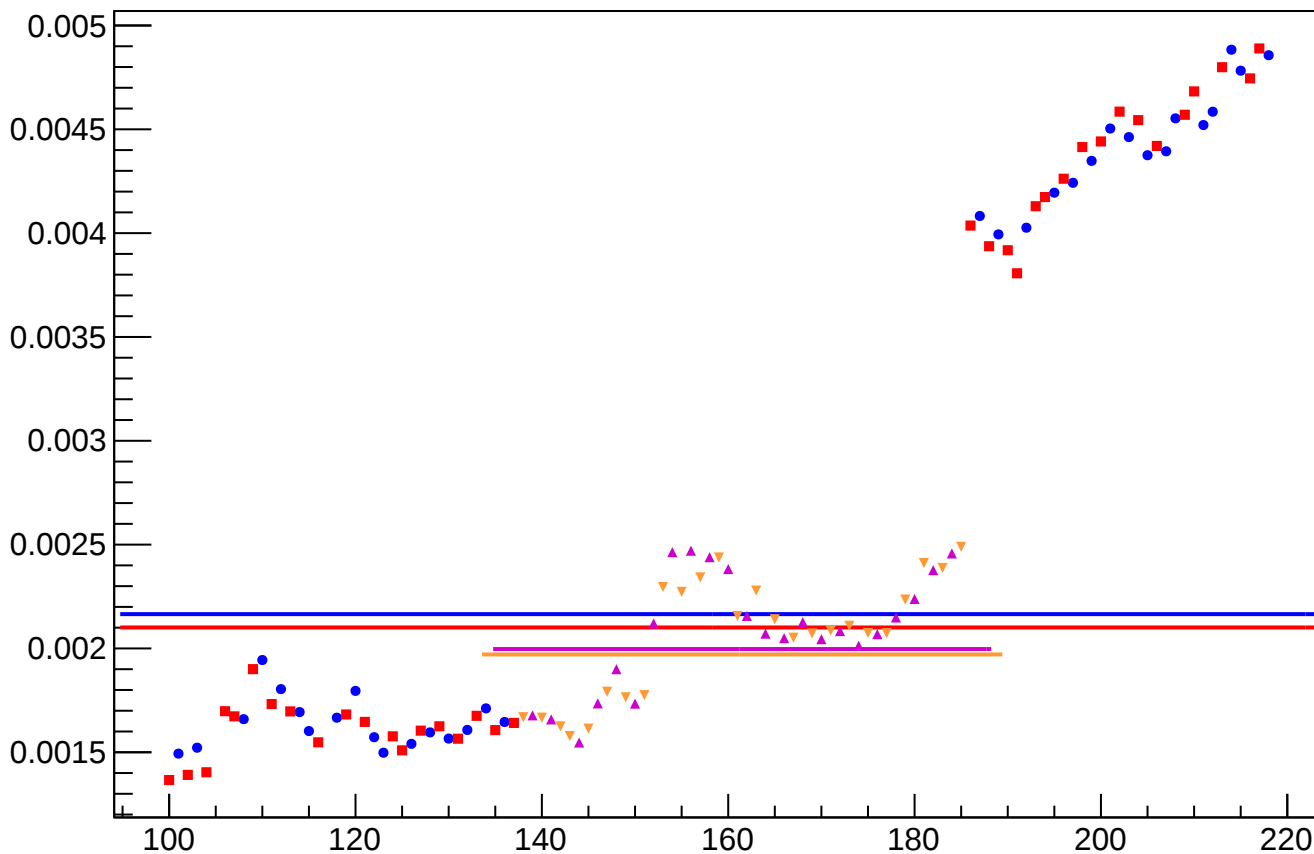
Left In: 0.460+/-0.000

χ^2/NDF : 104559088628.4/22

All: 0.419+/-0.000

χ^2/NDF : 661208180643.6

yield_bpm2i01X_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 7486262.3/32

Left Out: 0.002+/-0.000 χ^2/NDF :730203.8/24

Right Out: 0.002+/-0.000 χ^2/NDF : 7769162.6/35

Left In: 0.002+/-0.000 χ^2/NDF :666404.2/22

Left: 0.002+/-0.000 χ^2/NDF : 1399578.1/47

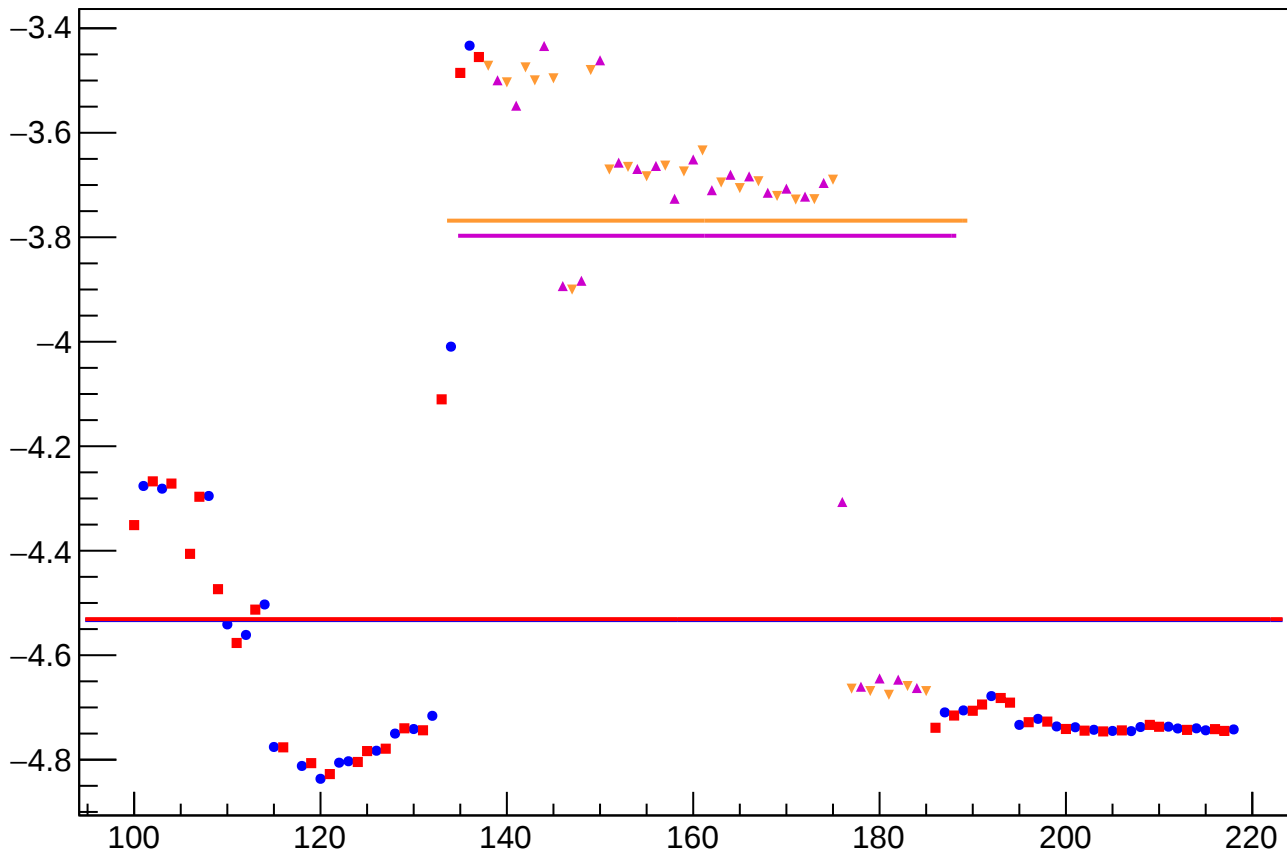
Right: 0.002+/-0.000 χ^2/NDF : 15268490.0/68

In: 0.002+/-0.000 χ^2/NDF :8252078.0/55

Out: 0.002+/-0.000 χ^2/NDF :8564370.7/60

All: 0.002+/-0.000 χ^2/NDF : 16829689.9/116

yield_bpm2i01Y_mean vs Slug, Sign Corrected



Right In: -4.533+/-0.000 χ^2/NDF : 449503034363.4/32

Left Out: -3.768+/-0.000 χ^2/NDF : 516780173940.8/24

Right Out: -4.531+/-0.000 χ^2/NDF : 384050652141.3/35

Left In: -3.797+/-0.000 χ^2/NDF : 444886272608.9/22

Left: -3.782+/-0.000 χ^2/NDF : 963205684454.6/47

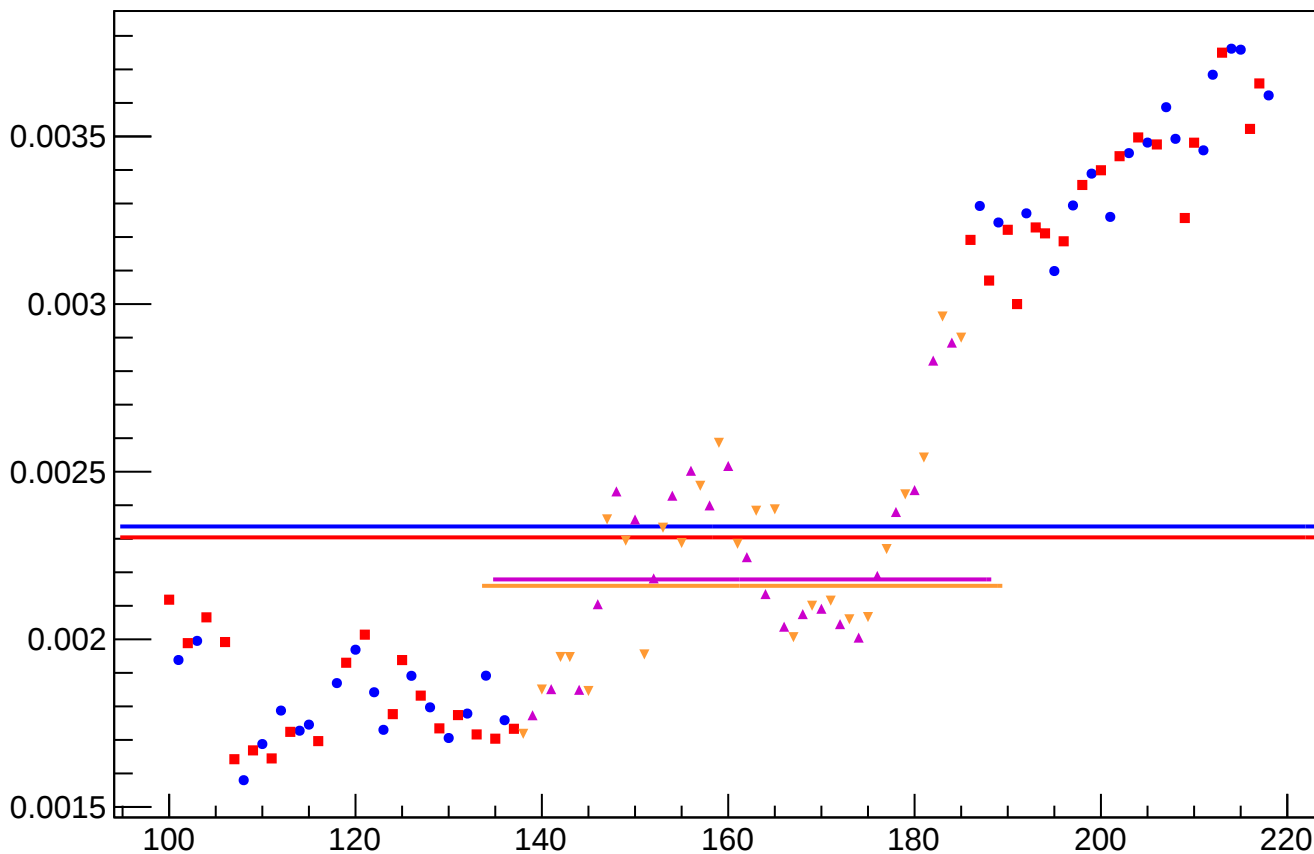
Right: -4.532+/-0.000 χ^2/NDF : 833558830108.4/68

In: -4.132+/-0.000 χ^2/NDF : 1767983359641.0/55

Out: -4.113+/-0.000 χ^2/NDF : 1904768943676.6/60

All: -4.122+/-0.000 χ^2/NDF : 3673870790689

yield_bpm2i01Y_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 3579000.4/32

Left Out: 0.002+/-0.000 χ^2/NDF :547831.5/24

Right Out: 0.002+/-0.000 χ^2/NDF : 3490048.8/35

Left In: 0.002+/-0.000 χ^2/NDF :463279.7/22

Left: 0.002+/-0.000 χ^2/NDF : 1012449.5/47

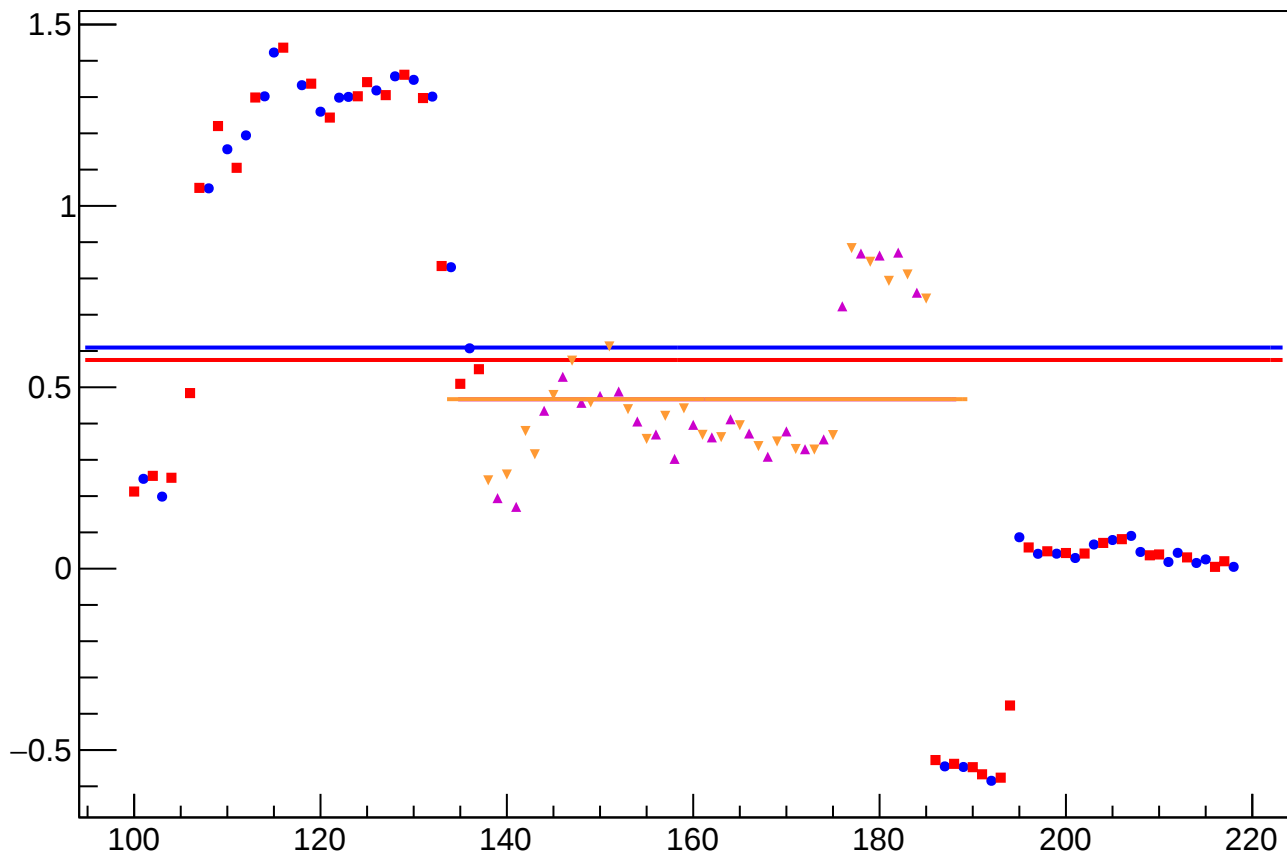
Right: 0.002+/-0.000 χ^2/NDF : 7072278.1/68

In: 0.002+/-0.000 χ^2/NDF :4122820.8/55

Out: 0.002+/-0.000 χ^2/NDF :4109949.3/60

All: 0.002+/-0.000 χ^2/NDF : 8237145.3/116

yield_bpm2i02X_mean vs Slug, Sign Corrected



Right In: 0.610 $\pm$ 0.000

χ^2/NDF : 86917746220.2/32

Left: 0.467 $\pm$ 0.000

χ^2/NDF : 15396100488.4/47

Left Out: 0.467 $\pm$ 0.000

χ^2/NDF : 7359344143.3/24

Right: 0.592 $\pm$ 0.000

χ^2/NDF : 190842555815.5/68

Right Out: 0.575 $\pm$ 0.000

χ^2/NDF : 103797160481.5/35

In: 0.541 $\pm$ 0.000

χ^2/NDF : 97000510040.6/55

Out: 0.523 $\pm$ 0.000

χ^2/NDF : 112424307926.8/60

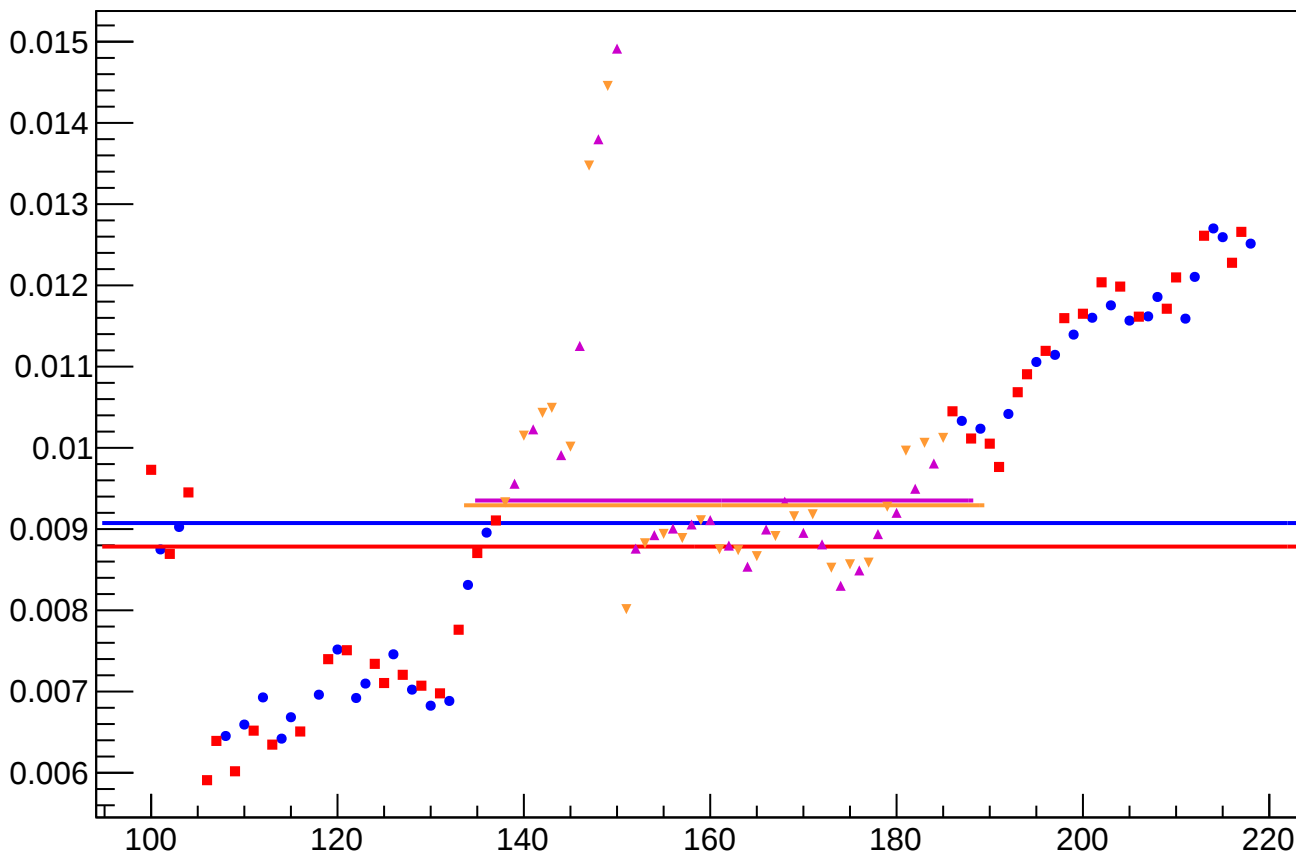
Left In: 0.467 $\pm$ 0.000

χ^2/NDF : 8036741308.0/22

All: 0.532 $\pm$ 0.000

χ^2/NDF : 209486958629.9

yield_bpm2i02X_rms vs Slug, Sign Corrected



Right In: 0.009+/-0.000 χ^2/NDF : 2016885.3/32

Left Out: 0.009+/-0.000 χ^2/NDF : 528279.5/24

Right Out: 0.009+/-0.000 χ^2/NDF : 2331701.3/35

Left In: 0.009+/-0.000 χ^2/NDF : 557555.2/22

Left: 0.009+/-0.000 χ^2/NDF : 1086539.3/47

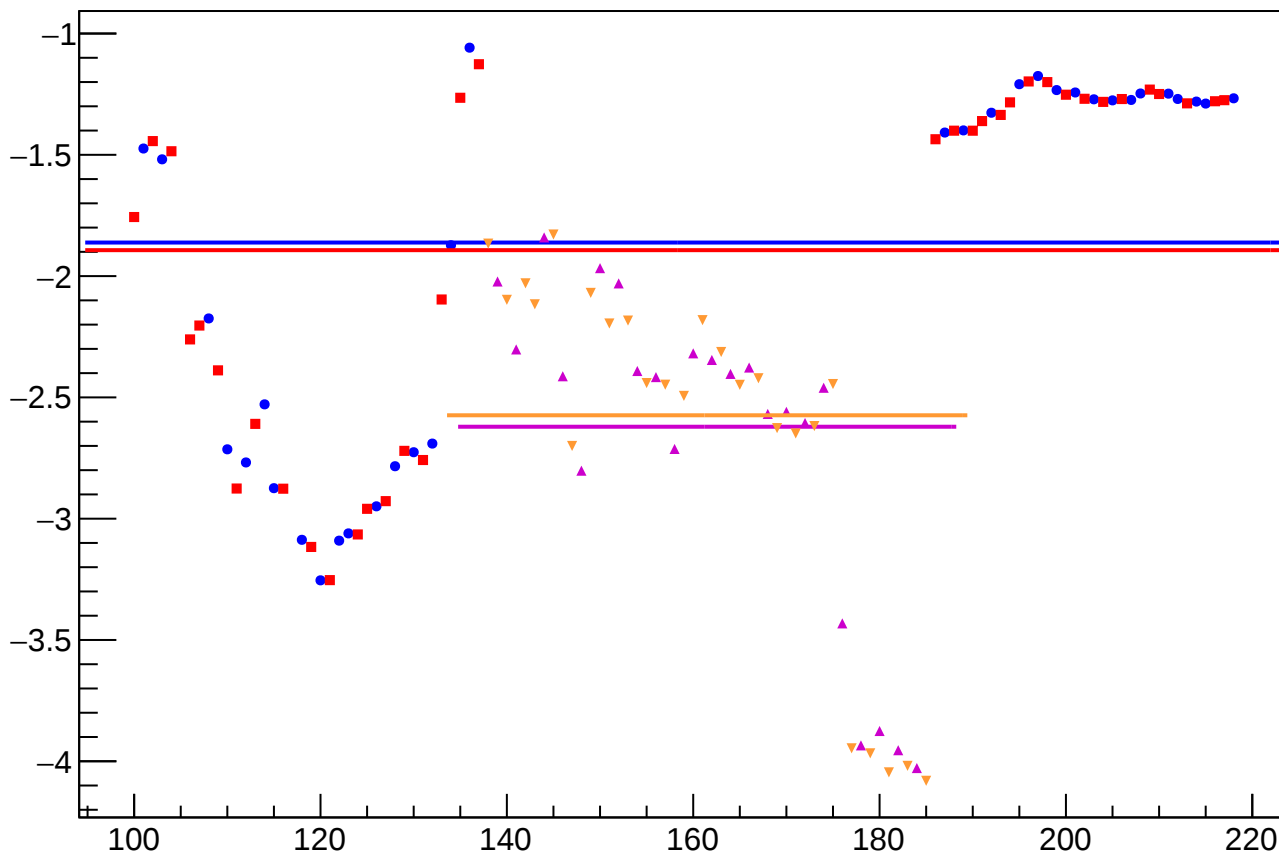
Right: 0.009+/-0.000 χ^2/NDF : 4366773.4/68

In: 0.009+/-0.000 χ^2/NDF : 2589930.4/55

Out: 0.009+/-0.000 χ^2/NDF : 2916099.1/60

All: 0.009+/-0.000 χ^2/NDF : 5519549.9/116

yield_bpm2i02Y_mean vs Slug, Sign Corrected



Right In: -1.862+/-0.000 χ^2/NDF : 138980460449.8/32

Left Out: -2.574+/-0.000 χ^2/NDF : 99176112704.9/24

Right Out: -1.893+/-0.000 χ^2/NDF : 135526096674.7/35

Left In: -2.621+/-0.000 χ^2/NDF : 80862402796.4/22

Left: -2.597+/-0.000 χ^2/NDF : 180296288698.4/47

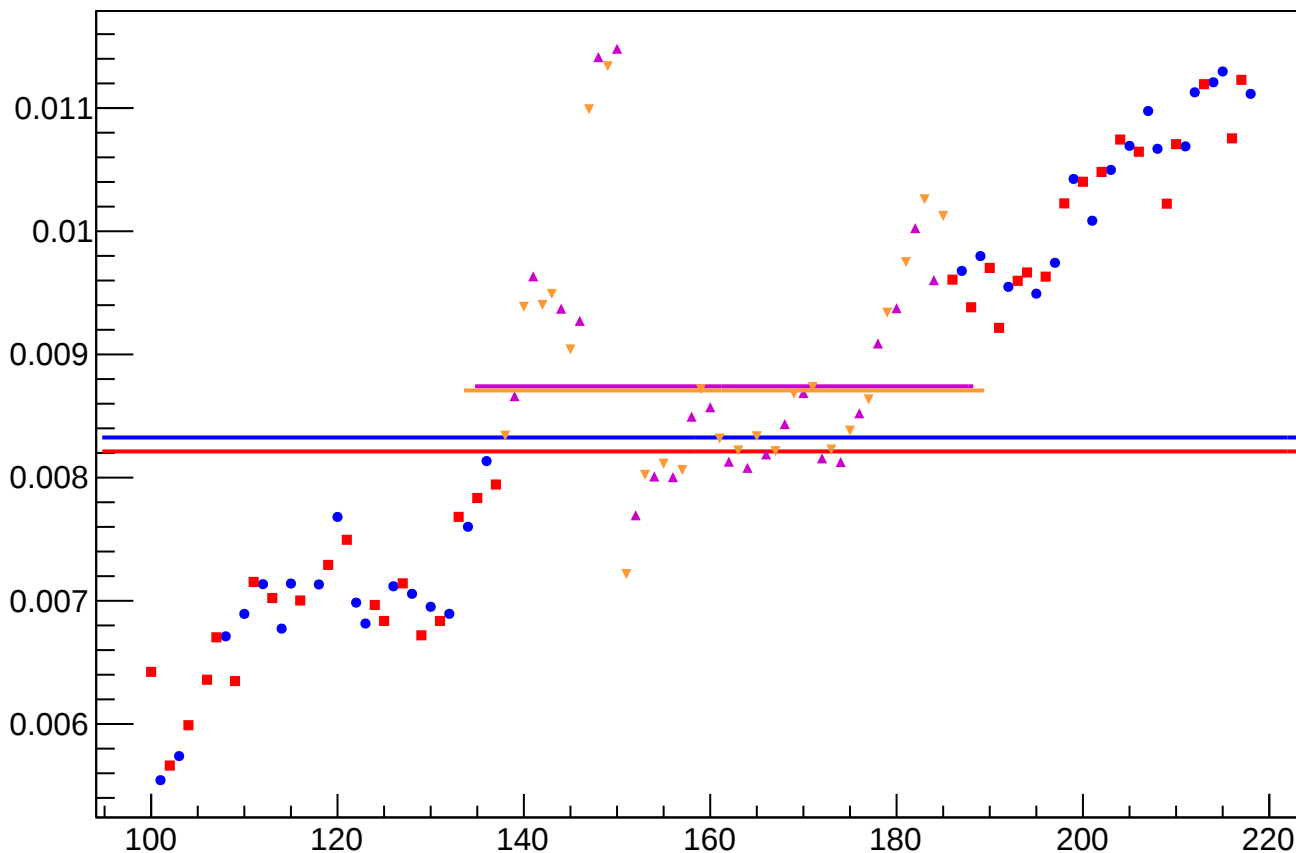
Right: -1.878+/-0.000 χ^2/NDF : 274633426831.8/68

In: -2.221+/-0.000 χ^2/NDF : 287883090465.6/55

Out: -2.216+/-0.000 χ^2/NDF : 292992319601.7/60

All: -2.219+/-0.000 χ^2/NDF : 580881559212.7

yield_bpm2i02Y_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 1839943.4/32

Left Out: 0.009+/-0.000 χ^2/NDF : 369376.5/24

Right Out: 0.008+/-0.000 χ^2/NDF : 1714485.8/35

Left In: 0.009+/-0.000 χ^2/NDF : 353750.0/22

Left: 0.009+/-0.000 χ^2/NDF : 723390.7/47

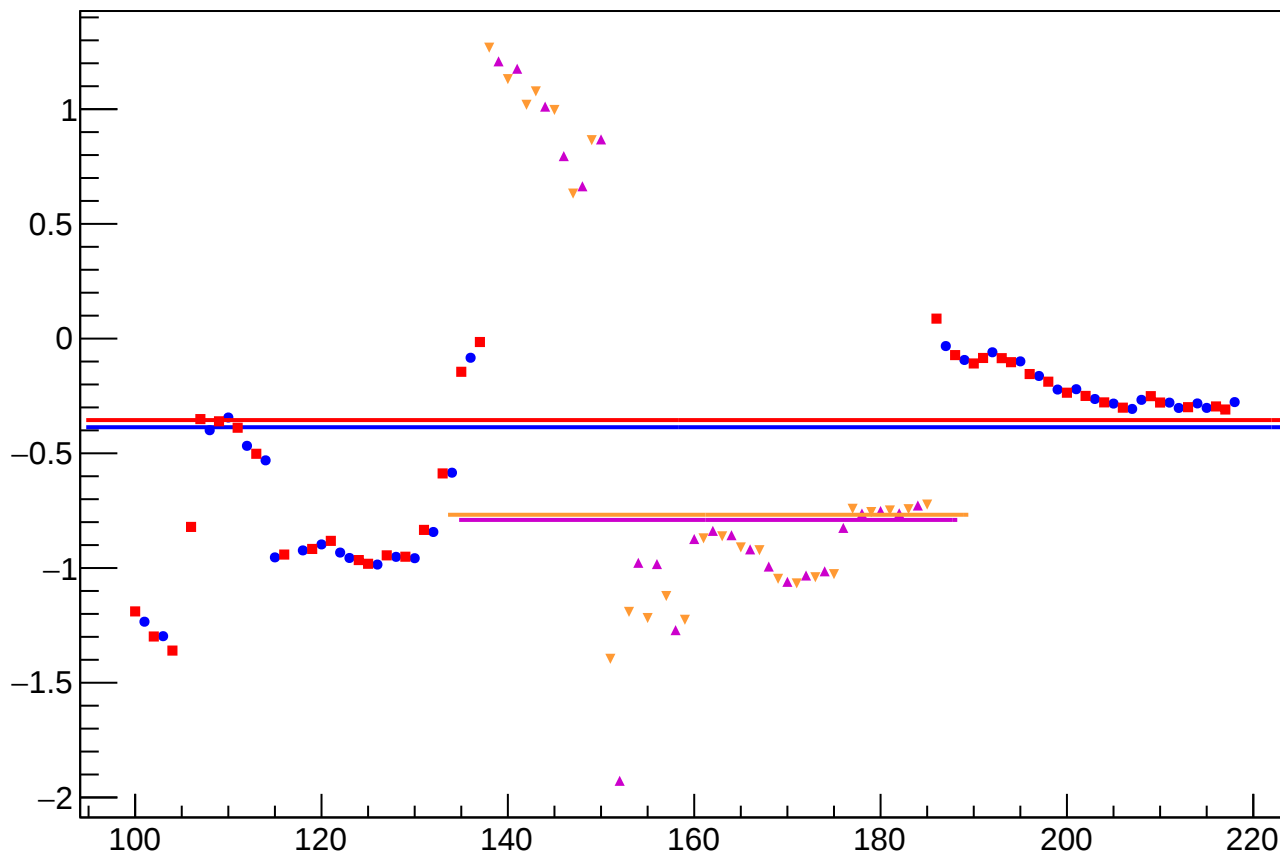
Right: 0.008+/-0.000 χ^2/NDF : 3557725.2/68

In: 0.009+/-0.000 χ^2/NDF : 2234406.7/55

Out: 0.008+/-0.000 χ^2/NDF : 2145471.5/60

All: 0.008+/-0.000 χ^2/NDF : 4382629.9/116

yield_bpm0i01X_mean vs Slug, Sign Corrected



Right In: -0.386+/-0.000 χ^2/NDF : 23178342191.1/32

Left Out: -0.768+/-0.000 χ^2/NDF : 120774855982.9/24

Right Out: -0.355+/-0.000 χ^2/NDF : 25366273338.0/35

Left In: -0.790+/-0.000 χ^2/NDF : 123452478408.2/22

Left: -0.779+/-0.000 χ^2/NDF : 244297726249.8/47

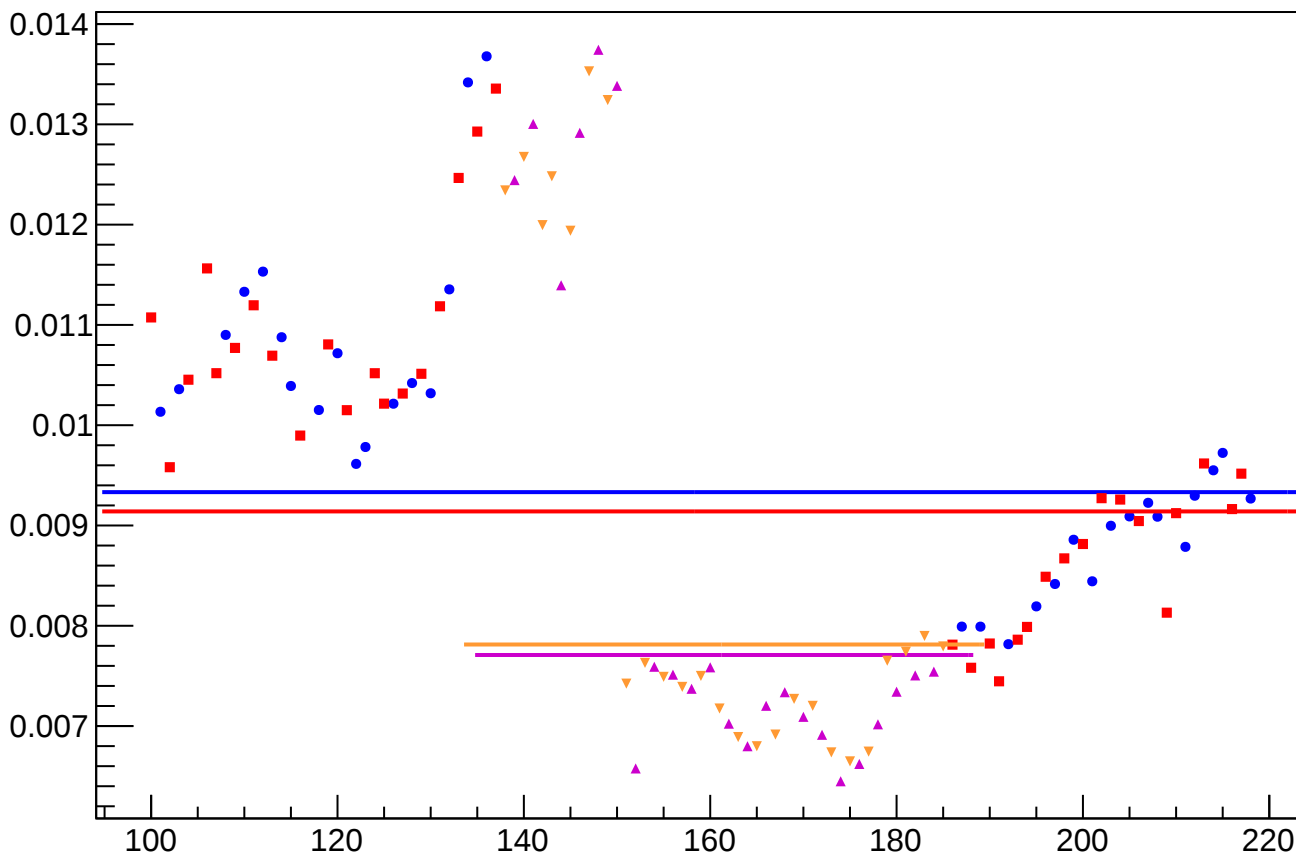
Right: -0.370+/-0.000 χ^2/NDF : 48645661921.0/68

In: -0.618+/-0.000 χ^2/NDF : 165609947836.9/55

Out: -0.589+/-0.000 χ^2/NDF : 166958491516.7/60

All: -0.603+/-0.000 χ^2/NDF : 332773118410.0/100

yield_bpm0i01X_rms vs Slug, Sign Corrected



Right In: 0.009+/-0.000 χ^2/NDF : 550762.3/32

Left Out: 0.008+/-0.000 χ^2/NDF :1705997.6/24

Right Out: 0.009+/-0.000 χ^2/NDF : 656930.8/35

Left In: 0.008+/-0.000 χ^2/NDF :1746653.6/22

Left: 0.008+/-0.000 χ^2/NDF : 3455681.9/47

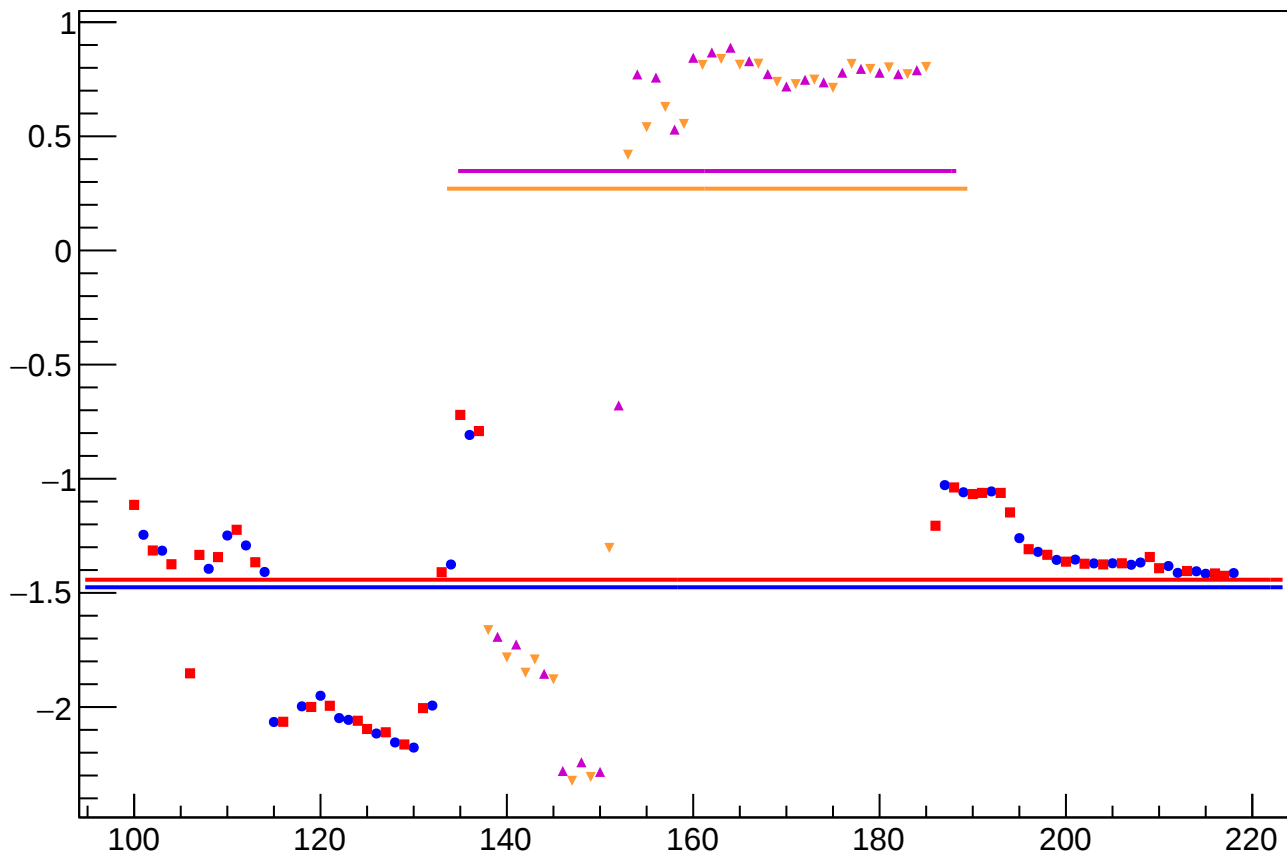
Right: 0.009+/-0.000 χ^2/NDF : 1215432.9/68

In: 0.008+/-0.000 χ^2/NDF :2910474.6/55

Out: 0.008+/-0.000 χ^2/NDF :2793552.3/60

All: 0.008+/-0.000 χ^2/NDF : 5704110.4/116

yield_bpm0i01Y_mean vs Slug, Sign Corrected



Right In: -1.475+/-0.000 χ^2/NDF : 175317048117.8/32

Left Out: 0.271+/-0.000 χ^2/NDF : 2583233987355.9/24

Right Out: -1.442+/-0.000 χ^2/NDF : 164575923255.5/35

Left In: 0.348+/-0.000 χ^2/NDF : 2274004426513.8/22

Left: 0.308+/-0.000 χ^2/NDF : 4864843200778.2/47

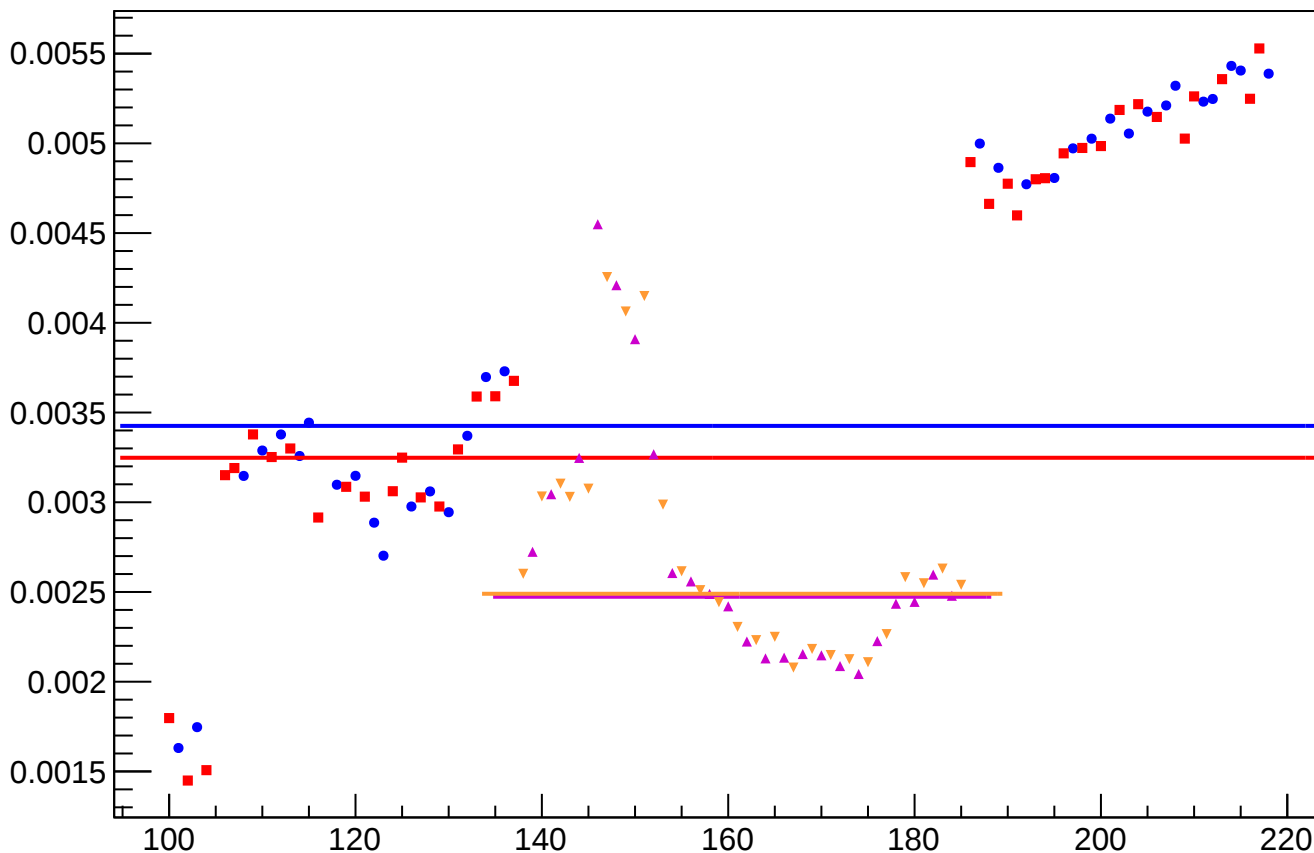
Right: -1.458+/-0.000 χ^2/NDF : 340627462401.4/68

In: -0.272+/-0.000 χ^2/NDF : 5253998415547.3/55

Out: -0.330+/-0.000 χ^2/NDF : 5444194328130.4/60

All: -0.302+/-0.000 χ^2/NDF : 1070472178097

yield_bpm0i01Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 4727055.5/32

Left Out: 0.002+/-0.000 χ^2/NDF :1070282.7/24

Right Out: 0.003+/-0.000 χ^2/NDF : 5689877.8/35

Left In: 0.002+/-0.000 χ^2/NDF :1135279.8/22

Left: 0.002+/-0.000 χ^2/NDF : 2206266.8/47

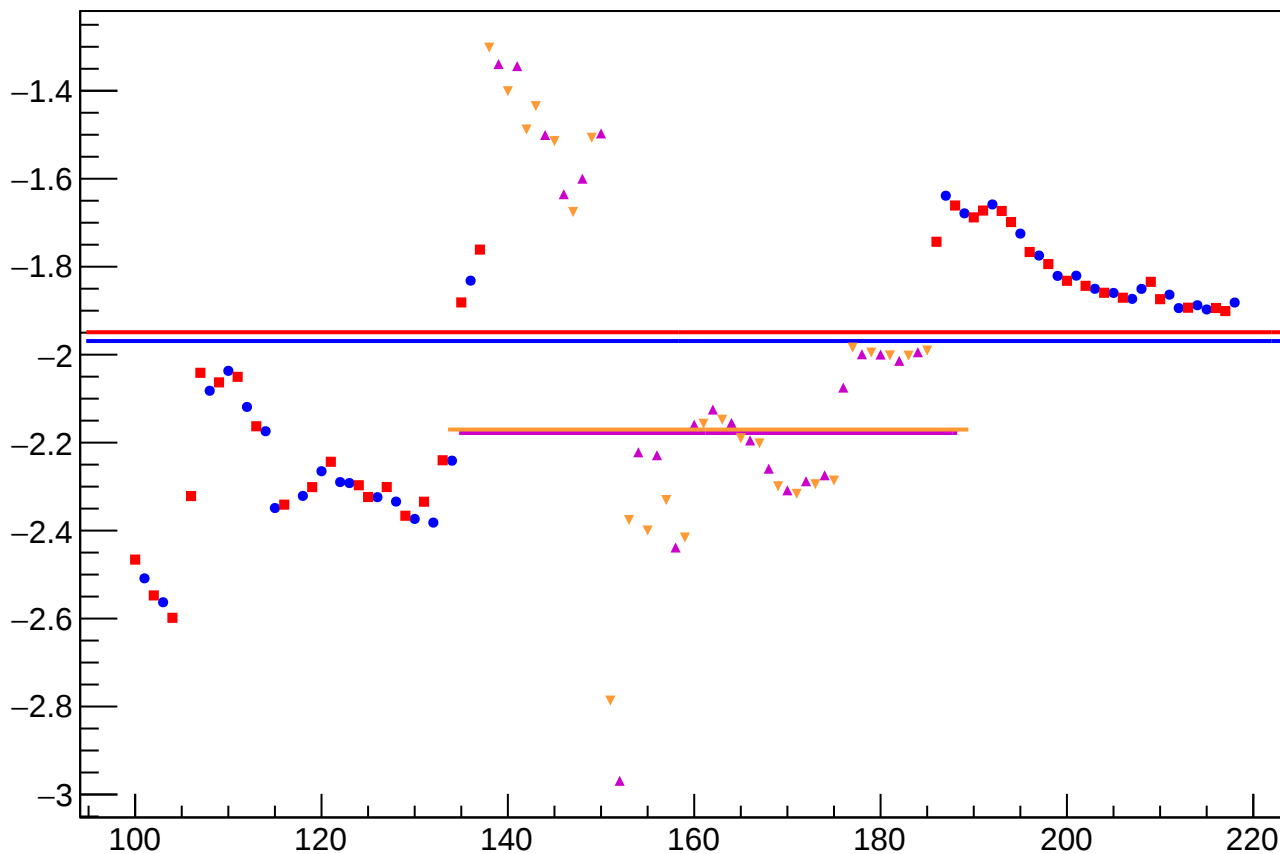
Right: 0.003+/-0.000 χ^2/NDF : 10459292.8/68

In: 0.003+/-0.000 χ^2/NDF :7391773.1/55

Out: 0.003+/-0.000 χ^2/NDF :7815632.6/60

All: 0.003+/-0.000 χ^2/NDF : 15214062.2/116

yield_bpm0i01aX_mean vs Slug, Sign Corrected



Right In: -1.969+/-0.000 χ^2/NDF : 31706337087.8/32

Left Out: -2.170+/-0.000 χ^2/NDF : 59967315241.9/24

Right Out: -1.949+/-0.000 χ^2/NDF : 35433228844.4/35

Left In: -2.178+/-0.000 χ^2/NDF : 73402051113.3/22

Left: -2.174+/-0.000 χ^2/NDF : 133392029481.5/47

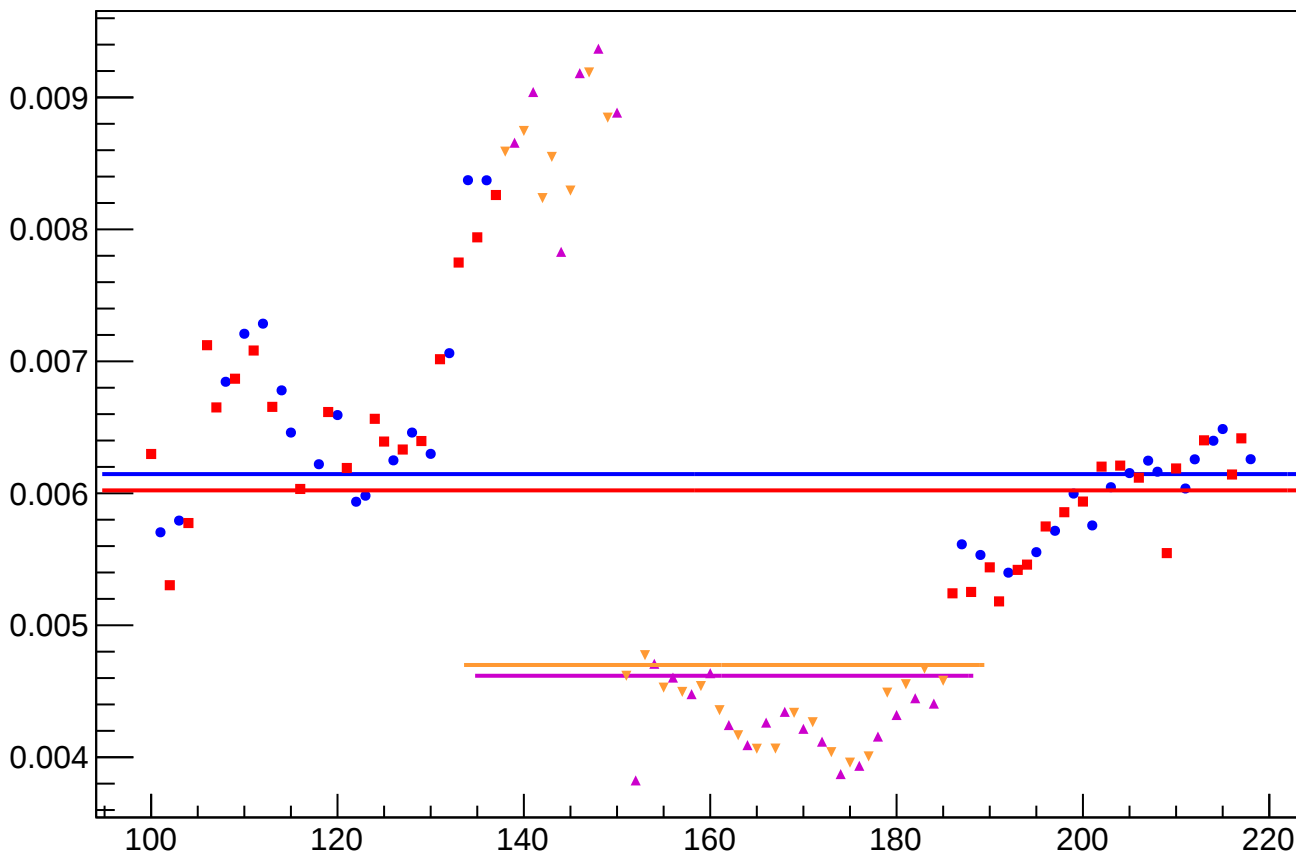
Right: -1.959+/-0.000 χ^2/NDF : 67236784568.7/68

In: -2.097+/-0.000 χ^2/NDF : 117576988106.4/55

Out: -2.082+/-0.000 χ^2/NDF : 110103684208.3/60

All: -2.089+/-0.000 χ^2/NDF : 227807101151.7

yield_bpm0i01aX_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 311182.3/32

Left Out: 0.005+/-0.000 χ^2/NDF :2319588.7/24

Right Out: 0.006+/-0.000 χ^2/NDF : 376956.2/35

Left In: 0.005+/-0.000 χ^2/NDF :2367440.9/22

Left: 0.005+/-0.000 χ^2/NDF : 4691984.4/47

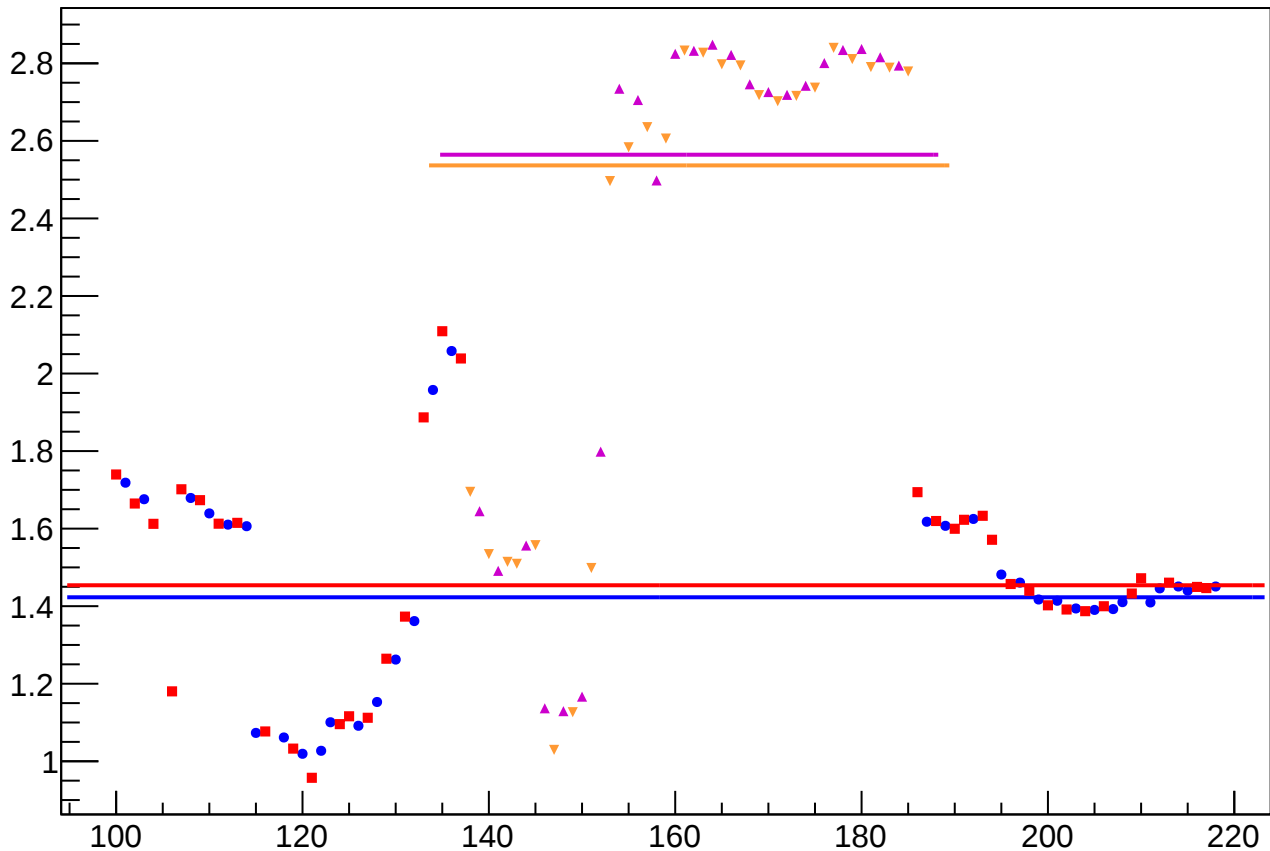
Right: 0.006+/-0.000 χ^2/NDF : 695492.7/68

In: 0.005+/-0.000 χ^2/NDF :4011551.9/55

Out: 0.005+/-0.000 χ^2/NDF :3747843.2/60

All: 0.005+/-0.000 χ^2/NDF : 7759580.3/116

yield_bpm0i01aY_mean vs Slug, Sign Corrected



Right In: 1.423+/-0.000 χ^2/NDF : 174214784569.8/32

Left Out: 2.537+/-0.000 χ^2/NDF : 269554948115.3/24

Right Out: 1.454+/-0.000 χ^2/NDF : 177002078039.8/35

Left In: 2.564+/-0.000 χ^2/NDF : 260287937727.8/22

Left: 2.550+/-0.000 χ^2/NDF : 530319507083.6/47

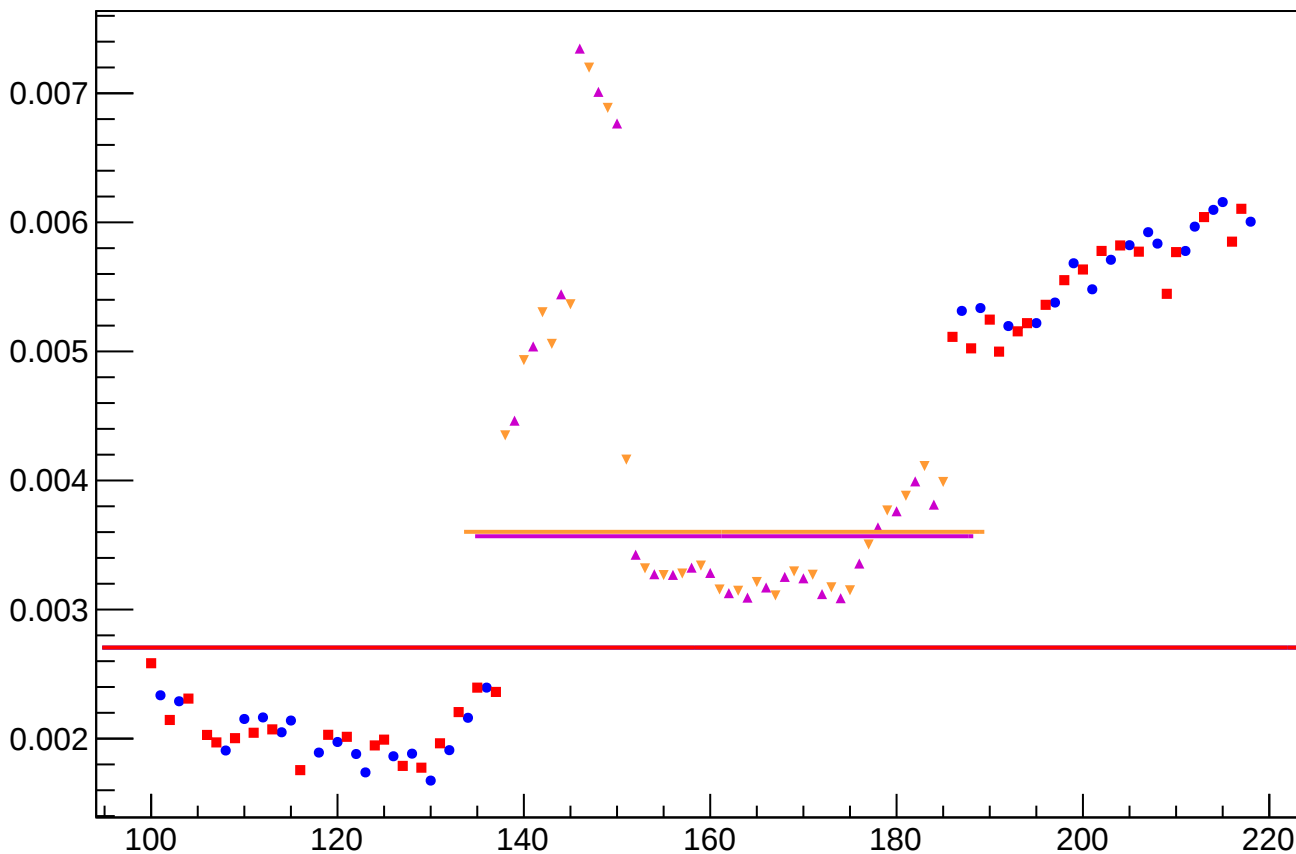
Right: 1.439+/-0.000 χ^2/NDF : 352134354319.8/68

In: 1.875+/-0.000 χ^2/NDF : 1399640720363.0/55

Out: 1.885+/-0.000 χ^2/NDF : 1356358853757.3/60

All: 1.880+/-0.000 χ^2/NDF : 2756153740067.

yield_bpm0i01aY_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 7895856.0/32

Left Out: 0.004+/-0.000 χ^2/NDF :1410717.8/24

Right Out: 0.003+/-0.000 χ^2/NDF : 7618089.8/35

Left In: 0.004+/-0.000 χ^2/NDF :1563028.0/22

Left: 0.004+/-0.000 χ^2/NDF : 2975225.3/47

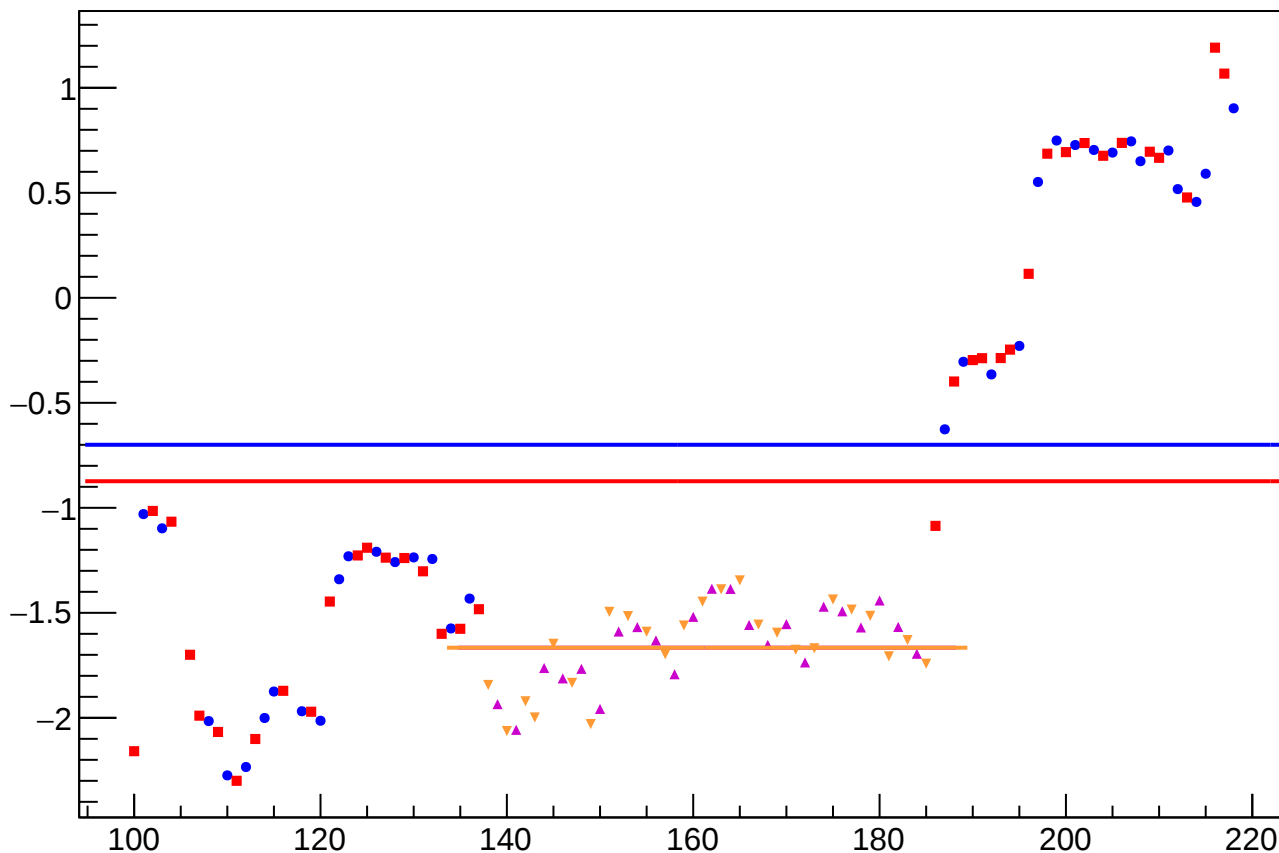
Right: 0.003+/-0.000 χ^2/NDF : 15513946.7/68

In: 0.003+/-0.000 χ^2/NDF :10562070.6/55

Out: 0.003+/-0.000 χ^2/NDF :10276065.0/60

All: 0.003+/-0.000 χ^2/NDF : 20838914.2/116

yield_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -0.700+/-0.000

χ^2/NDF : 253734039205.2/32

Left: -1.666+/-0.000

χ^2/NDF : 32617732948.1/47

Left Out: -1.666+/-0.000

χ^2/NDF : 18325162131.2/24

Right: -0.792+/-0.000

χ^2/NDF : 547177841861.8/68

Right Out: -0.873+/-0.000

χ^2/NDF : 289701508303.3/35

In: -1.314+/-0.000

χ^2/NDF : 407477216379.2/55

Out: -1.369+/-0.000

χ^2/NDF : 411679868260.5/60

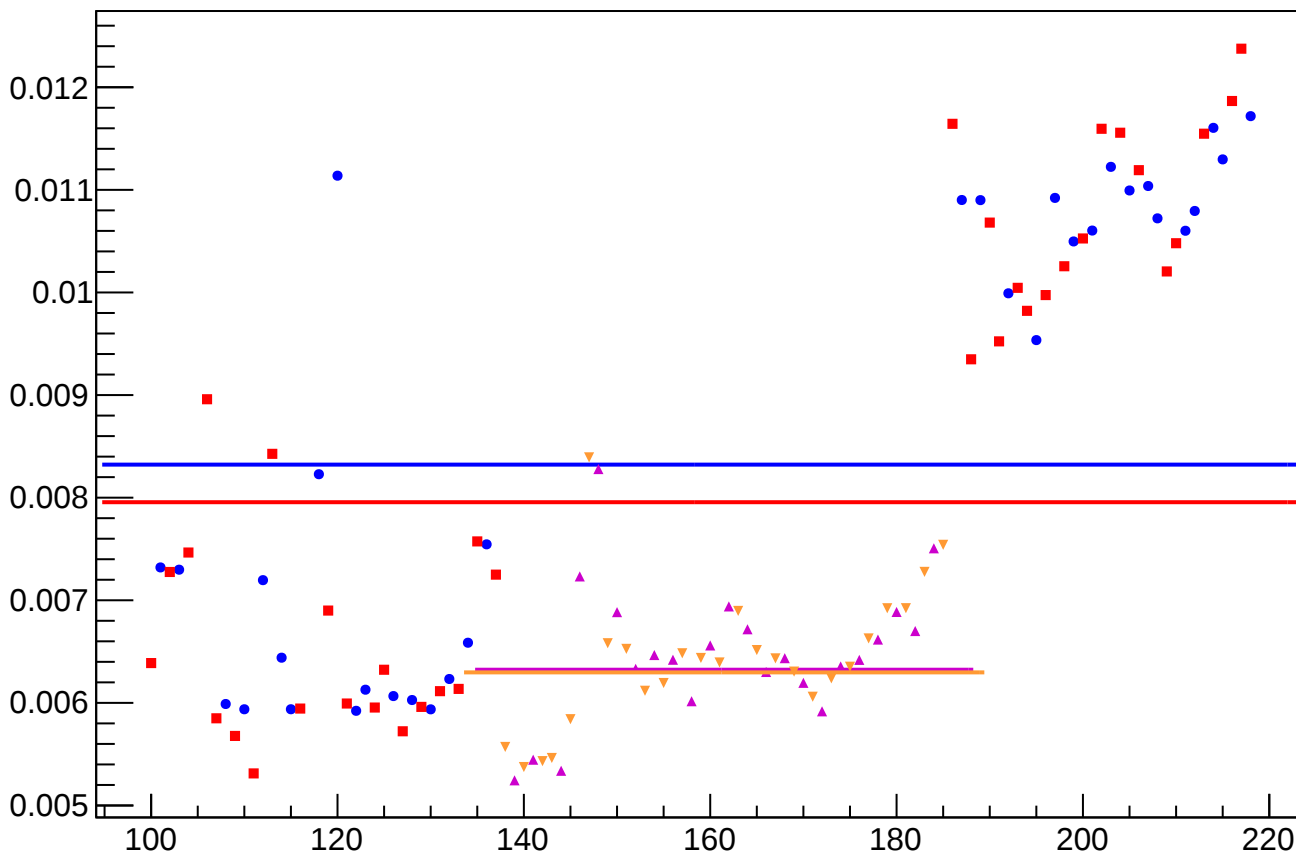
Left In: -1.666+/-0.000

χ^2/NDF : 14292570816.9/22

All: -1.343+/-0.000

χ^2/NDF : 820189246188.5

yield_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 2231343.0/32

Left Out: 0.006+/-0.000 χ^2/NDF : 310757.0/24

Right Out: 0.008+/-0.000 χ^2/NDF : 2598307.3/35

Left In: 0.006+/-0.000 χ^2/NDF : 330859.7/22

Left: 0.006+/-0.000 χ^2/NDF : 641901.9/47

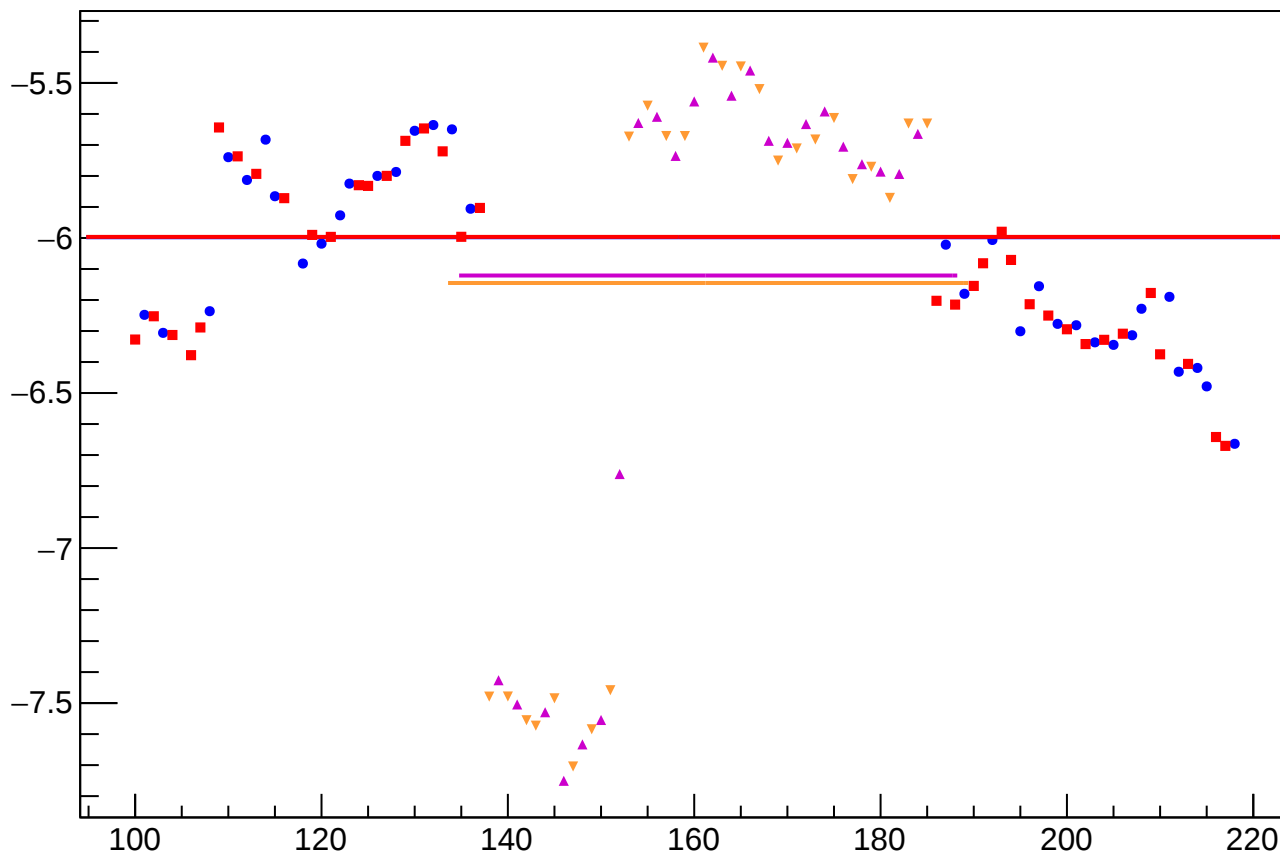
Right: 0.008+/-0.000 χ^2/NDF : 4862989.7/68

In: 0.007+/-0.000 χ^2/NDF : 3755582.7/55

Out: 0.007+/-0.000 χ^2/NDF : 3816364.4/60

All: 0.007+/-0.000 χ^2/NDF : 7583943.7/116

yield_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: -5.998+/-0.000 χ^2/NDF : 19270675155.2/32

Left Out: -6.145+/-0.000 χ^2/NDF : 185364150237.7/24

Right Out: -5.996+/-0.000 χ^2/NDF : 20705797678.9/35

Left In: -6.121+/-0.000 χ^2/NDF : 158315913062.3/22

Left: -6.133+/-0.000 χ^2/NDF : 343753122832.9/47

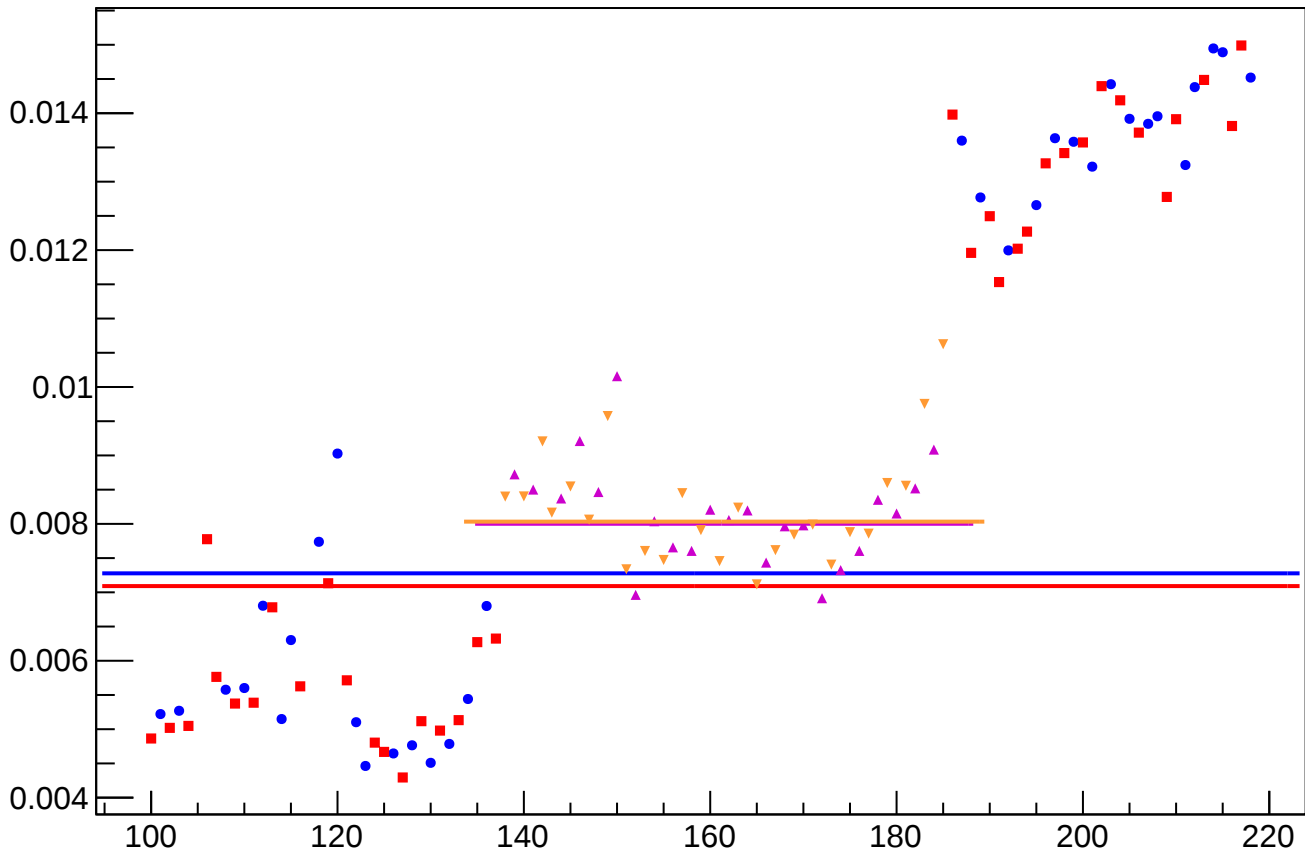
Right: -5.997+/-0.000 χ^2/NDF : 39976661145.0/68

In: -6.057+/-0.000 χ^2/NDF : 179520072730.3/55

Out: -6.067+/-0.000 χ^2/NDF : 209062515038.8/60

All: -6.062+/-0.000 χ^2/NDF : 388605447864.1

yield_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 6687367.8/32

Left Out: 0.008+/-0.000 χ^2/NDF :205762.2/24

Right Out: 0.007+/-0.000 χ^2/NDF : 6538659.7/35

Left In: 0.008+/-0.000 χ^2/NDF :220756.1/22

Left: 0.008+/-0.000 χ^2/NDF : 426763.2/47

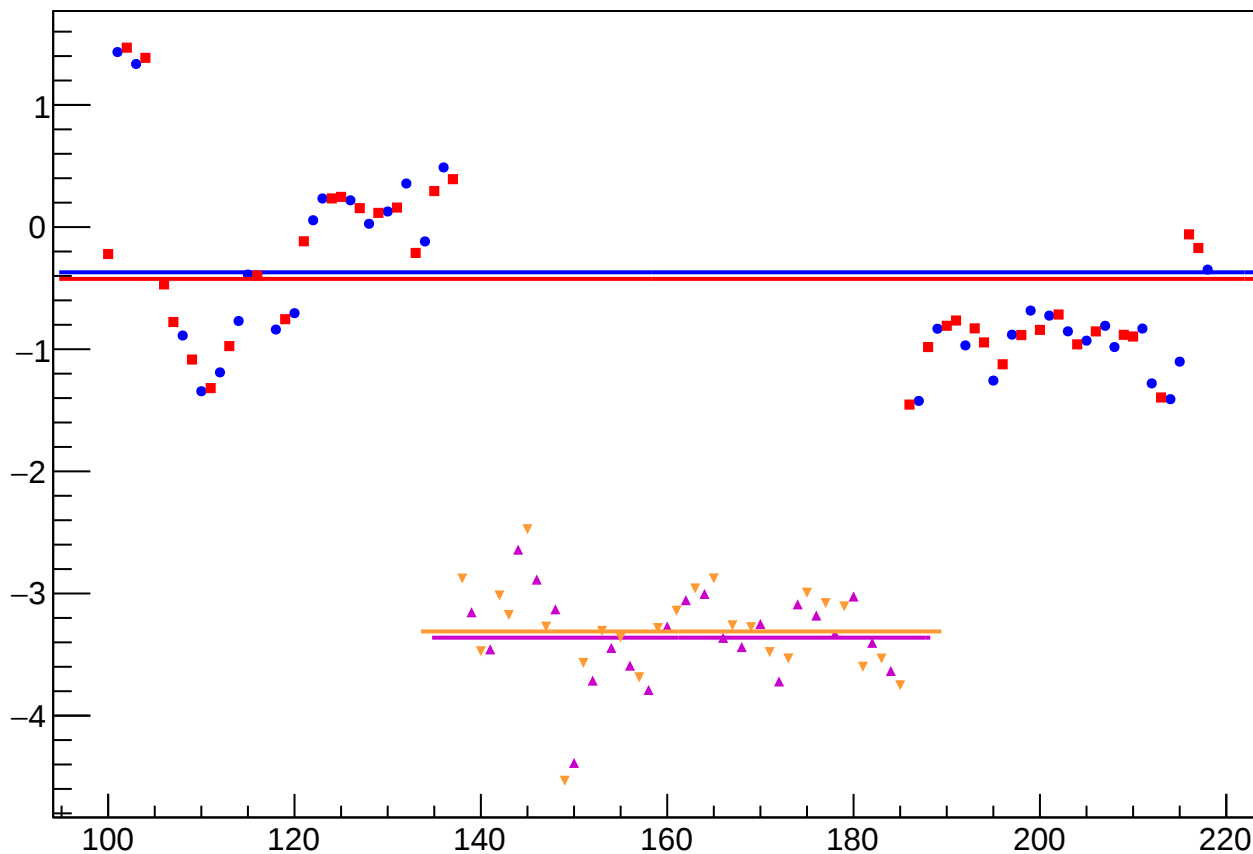
Right: 0.007+/-0.000 χ^2/NDF : 13235516.7/68

In: 0.008+/-0.000 χ^2/NDF :7041289.5/55

Out: 0.008+/-0.000 χ^2/NDF :6984523.6/60

All: 0.008+/-0.000 χ^2/NDF : 14030249.0/116

yield_bpm0l02X_mean vs Slug, Sign Corrected



Right In: -0.370+/-0.000 χ^2/NDF : 36477846597.5/32

Left Out: -3.311+/-0.000 χ^2/NDF :9354397456.2/24

Right Out: -0.424+/-0.000 χ^2/NDF : 35174115599.5/35

Left In: -3.362+/-0.000 χ^2/NDF :8171803777.4/22

Left: -3.336+/-0.000 χ^2/NDF : 17613895190.9/47

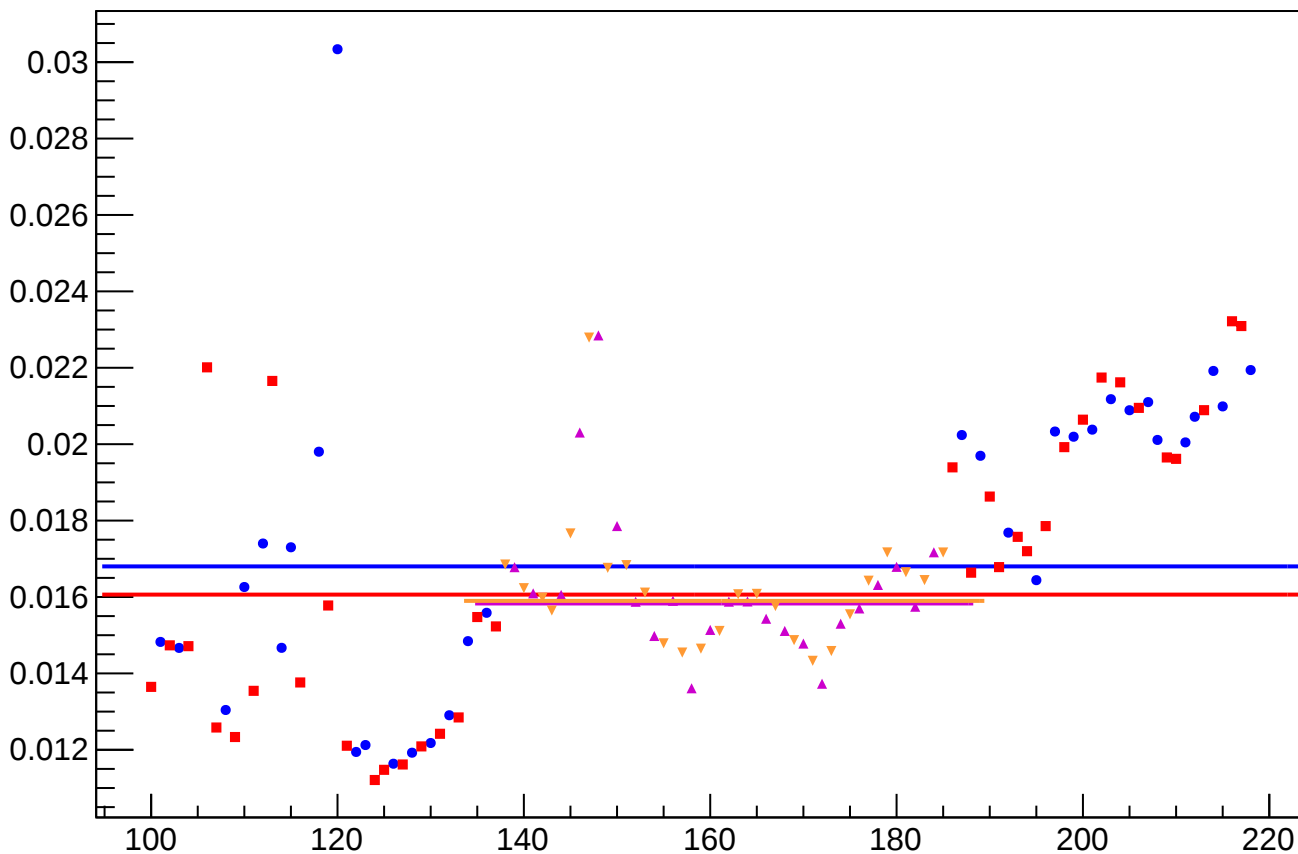
Right: -0.399+/-0.000 χ^2/NDF : 71741859598.7/68

In: -1.956+/-0.000 χ^2/NDF :323172416301.7/55

Out: -1.905+/-0.000 χ^2/NDF :328298243606.0/60

All: -1.930+/-0.000 χ^2/NDF : 651640958828.7

yield_bpm0l02X_rms vs Slug, Sign Corrected



Right In: 0.017+/-0.000 χ^2/NDF : 1631492.0/32

Left Out: 0.016+/-0.000 χ^2/NDF :251912.7/24

Right Out: 0.016+/-0.000 χ^2/NDF : 1758446.7/35

Left In: 0.016+/-0.000 χ^2/NDF :339542.1/22

Left: 0.016+/-0.000 χ^2/NDF : 591766.7/47

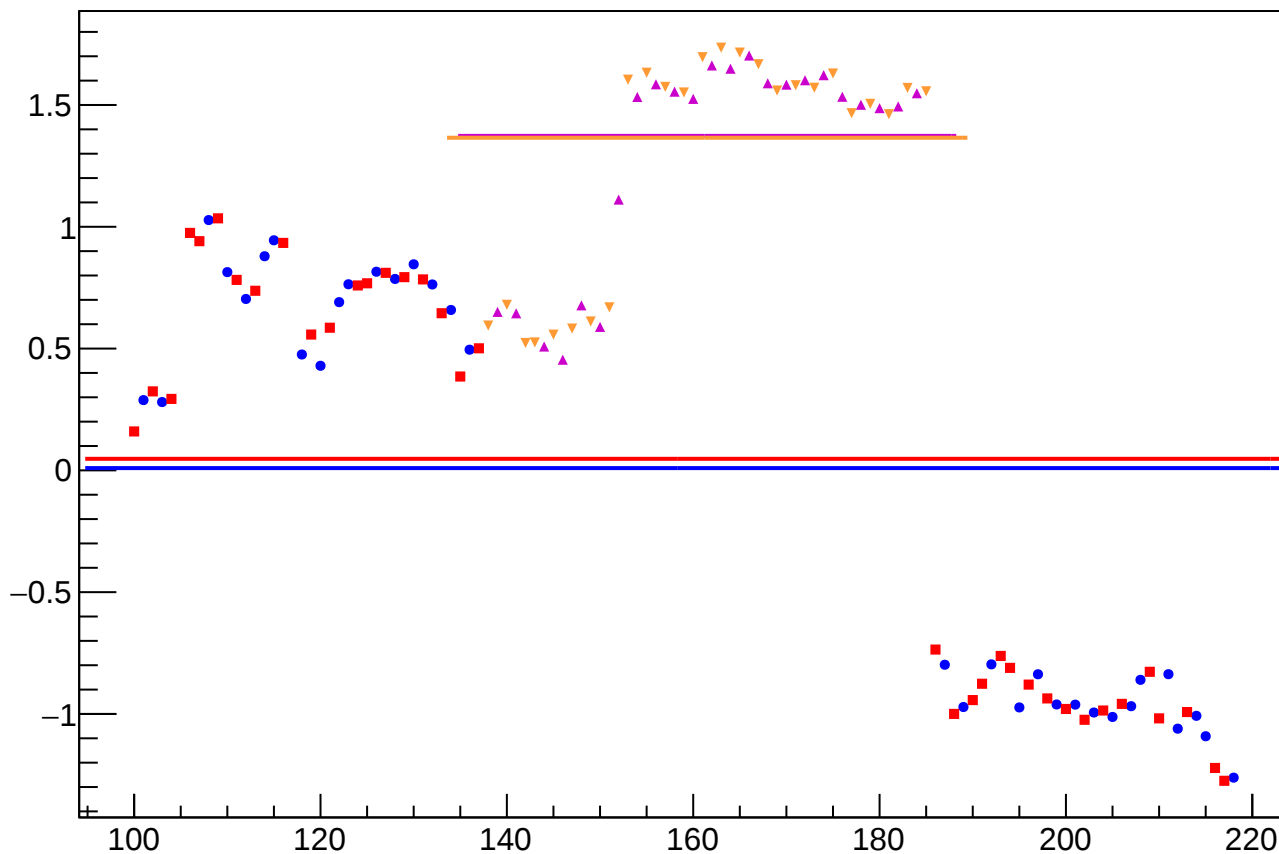
Right: 0.016+/-0.000 χ^2/NDF : 3423883.3/68

In: 0.016+/-0.000 χ^2/NDF :2029625.6/55

Out: 0.016+/-0.000 χ^2/NDF :2012196.8/60

All: 0.016+/-0.000 χ^2/NDF : 4054194.3/116

yield_bpm0l02Y_mean vs Slug, Sign Corrected



Right In: 0.009+/-0.000

χ^2/NDF : 97181845604.4/32

Left Out: 1.366+/-0.000

χ^2/NDF : 74741956067.9/24

Right Out: 0.047+/-0.000

χ^2/NDF : 106042963231.3/35

Left In: 1.373+/-0.000

χ^2/NDF : 63413151416.3/22

Left: 1.369+/-0.000 χ^2/NDF : 138167468300.7/47

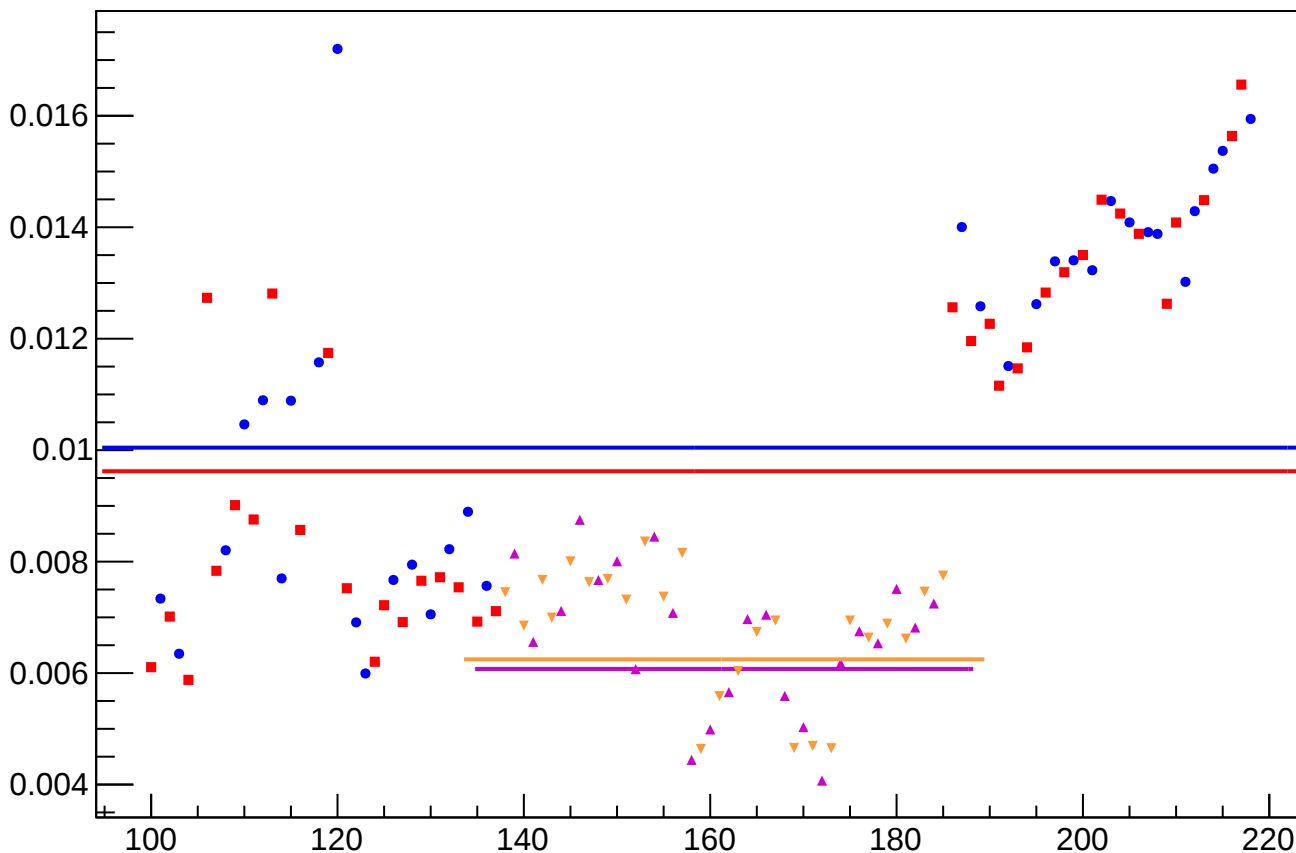
Right: 0.029+/-0.000 χ^2/NDF : 203343514284.5/68

In: 1.010+/-0.000 χ^2/NDF : 372012972158.0/55

Out: 0.986+/-0.000 χ^2/NDF : 393972426825.2/60

All: 0.998+/-0.000 χ^2/NDF : 766163832067.2

yield_bpm0l02Y_rms vs Slug, Sign Corrected



Right In: 0.010 $\pm$ 0.000 χ^2 /NDF: 3076265.2/32

Left Out: 0.006 $\pm$ 0.000 χ^2 /NDF:1330867.5/24

Right Out: 0.010 $\pm$ 0.000 χ^2 /NDF: 3210924.3/35

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

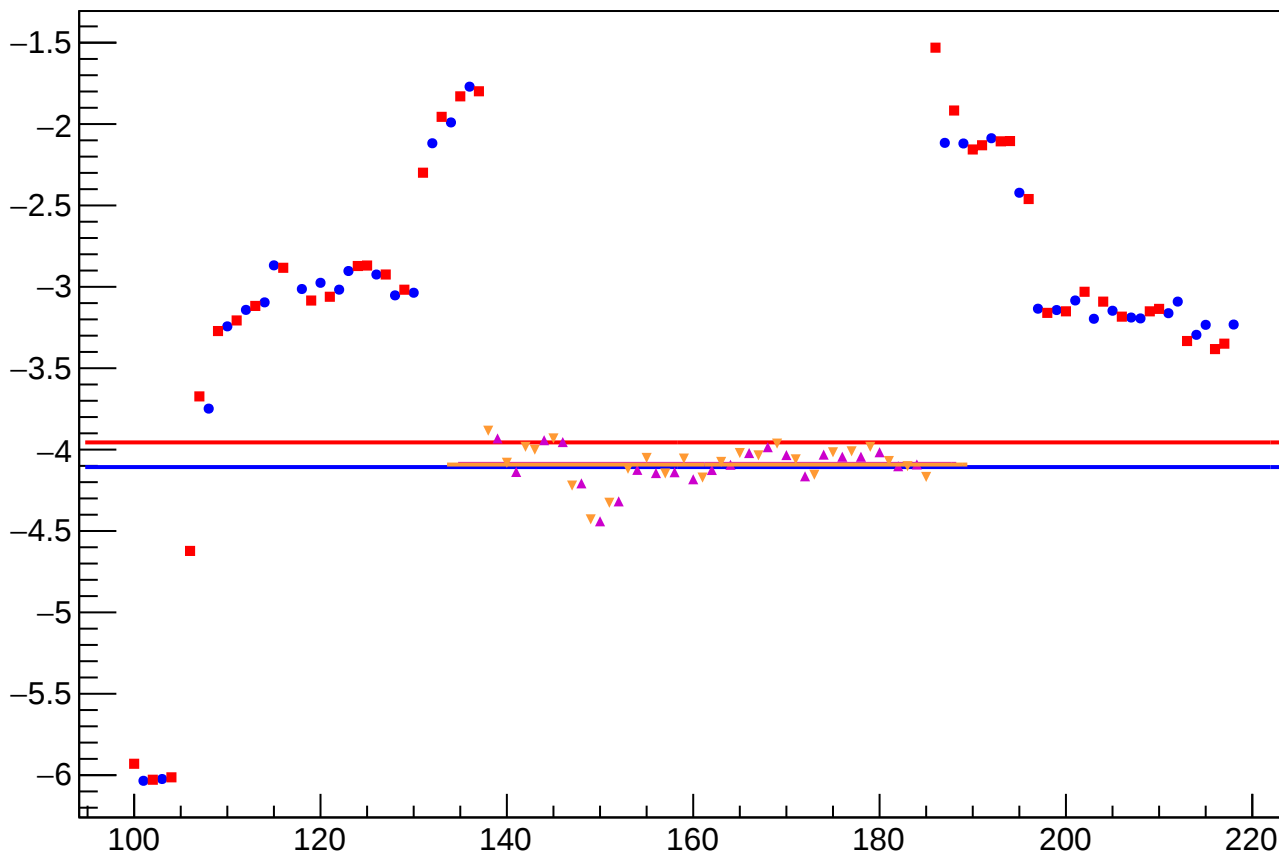
Right: 0.010 $\pm$ 0.000 χ^2 /NDF: 6316446.9/68

In: 0.007 $\pm$ 0.000 χ^2 /NDF:8092819.0/55

Out: 0.007 $\pm$ 0.000 χ^2 /NDF:7336479.8/60

All: 0.007 $\pm$ 0.000 χ^2 /NDF: 15433966.7/116

yield_bpm0l03X_mean vs Slug, Sign Corrected



Right In: -4.107+/-0.000

χ^2/NDF : 287843463208.8/32

Left Out: -4.092+/-0.000

χ^2/NDF : 39806766.7/24

Right Out: -3.956+/-0.000

χ^2/NDF : 277706931119.2/35

Left In: -4.088+/-0.000

χ^2/NDF : 34412880.7/22

Left: -4.089+/-0.000

χ^2/NDF : 74248792.8/47

Right: -4.041+/-0.000

χ^2/NDF : 566772024051.2/68

In: -4.107+/-0.000

χ^2/NDF : 287879458184.1/55

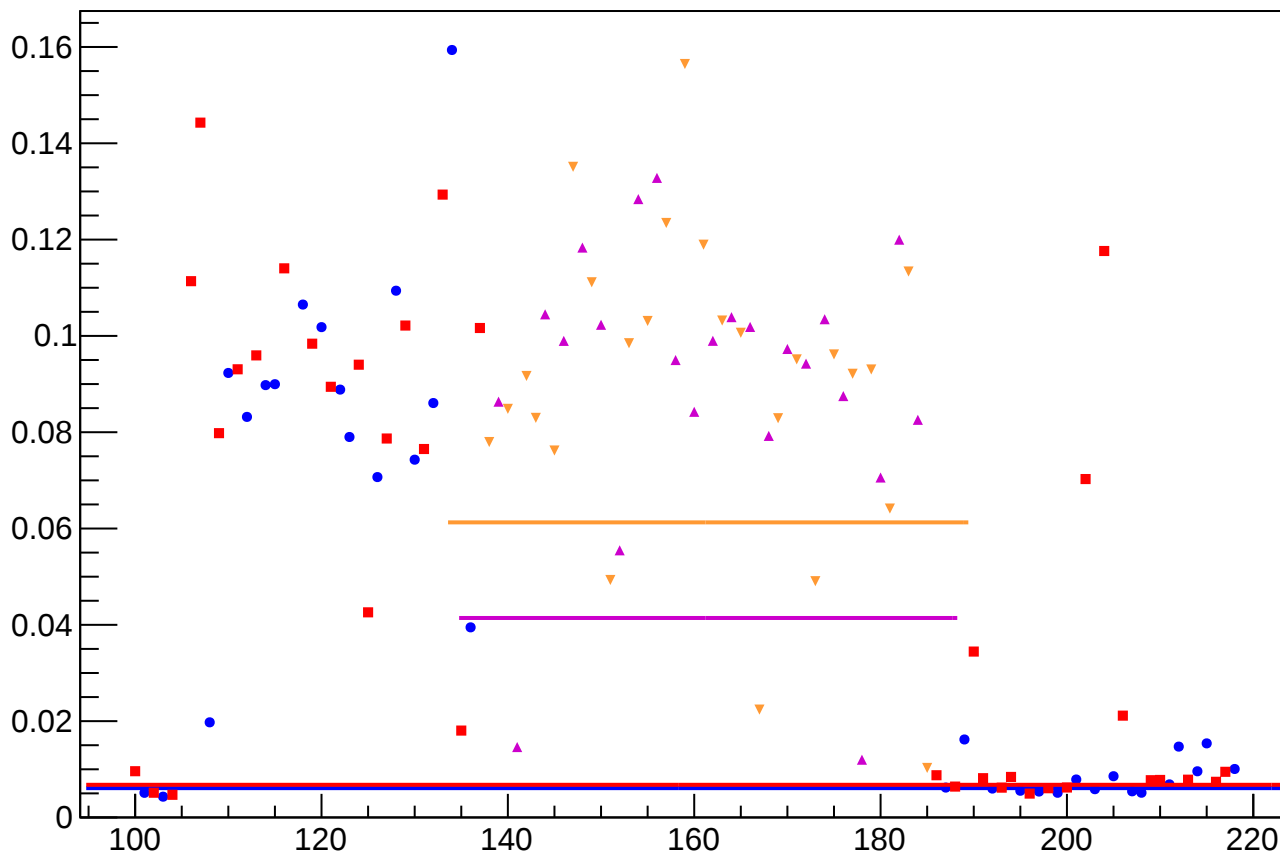
Out: -3.960+/-0.000

χ^2/NDF : 277799723522.8/60

All: -4.043+/-0.000

χ^2/NDF : 566862494529.7

yield_bpm0l03X_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 8426105.9/32

Left Out: 0.061+/-0.000 χ^2/NDF : 8355266.0/24

Right Out: 0.007+/-0.000 χ^2/NDF : 10410402.0/35

Left In: 0.041+/-0.000 χ^2/NDF : 13124468.7/22

Left: 0.050+/-0.000 χ^2/NDF : 22855159.2/47

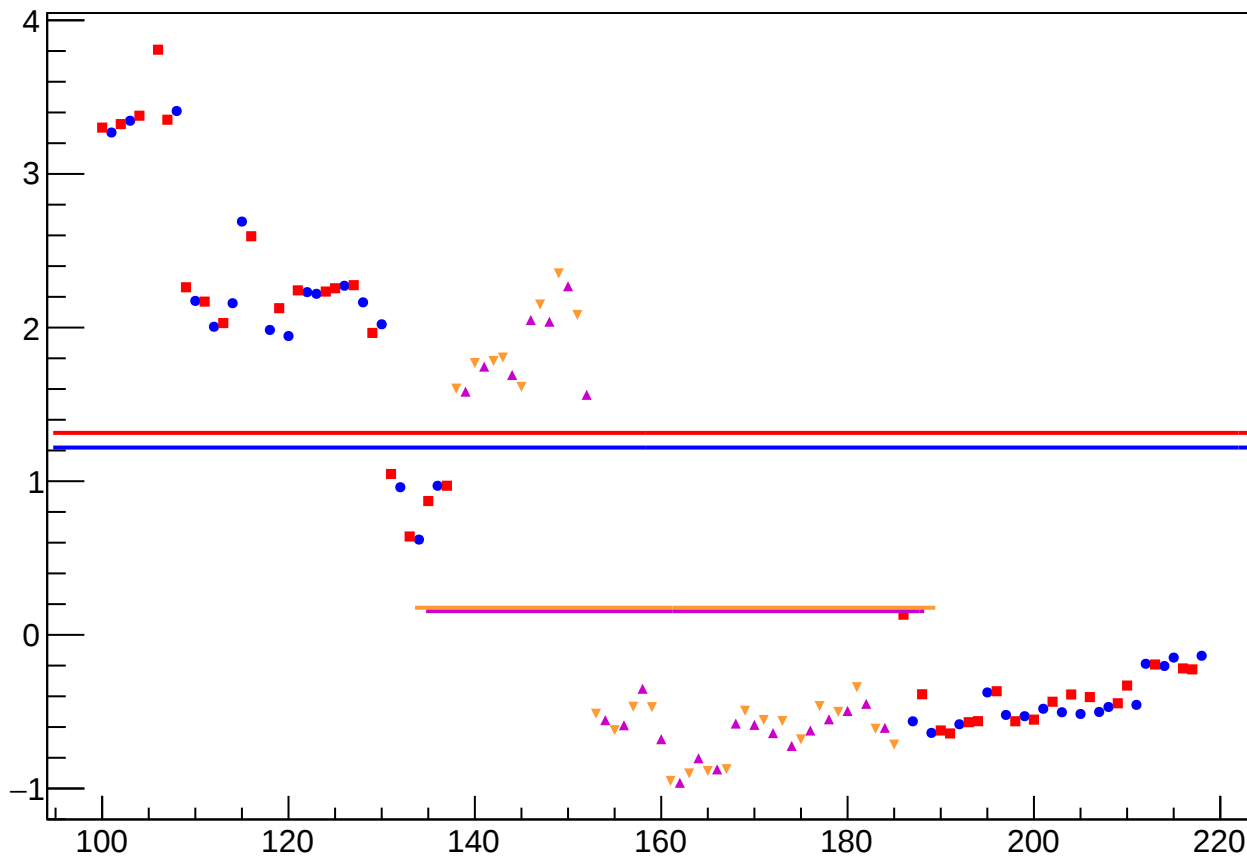
Right: 0.006+/-0.000 χ^2/NDF : 18887638.5/68

In: 0.007+/-0.000 χ^2/NDF : 31840512.2/55

Out: 0.008+/-0.000 χ^2/NDF : 35771607.4/60

All: 0.008+/-0.000 χ^2/NDF : 67758103.1/116

yield_bpm0l03Y_mean vs Slug, Sign Corrected



Right In: 1.219+/-0.000 χ^2/NDF : 222348960406.5/32

Left Out: 0.177+/-0.000 χ^2/NDF : 3275313367.7/24

Right Out: 1.315+/-0.000 χ^2/NDF : 196944565873.0/35

Left In: 0.154+/-0.000 χ^2/NDF : 3163553595.0/22

Left: 0.165+/-0.000 χ^2/NDF : 6439465655.5/47

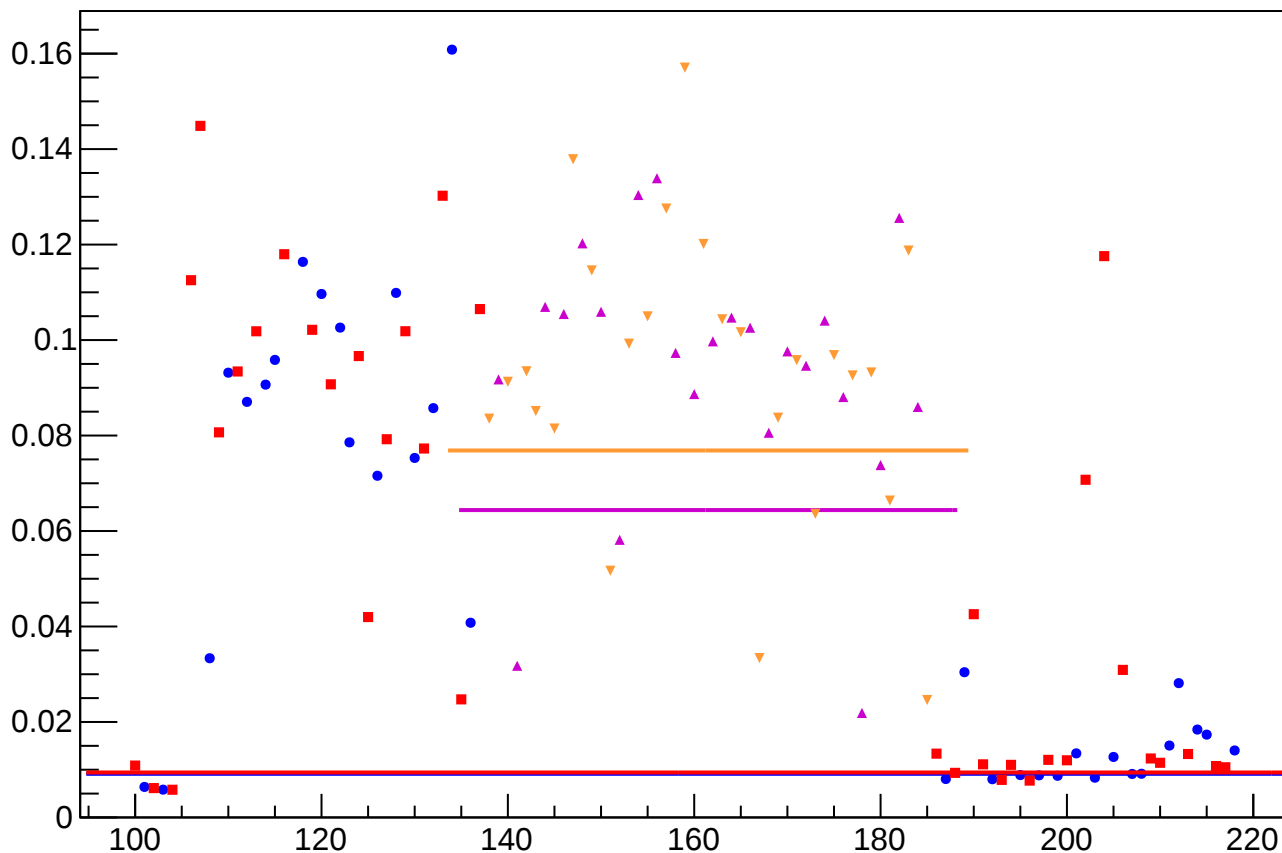
Right: 1.264+/-0.000 χ^2/NDF : 419568353750.9/68

In: 1.177+/-0.000 χ^2/NDF : 228322499007.3/55

Out: 1.271+/-0.000 χ^2/NDF : 203044124123.3/60

All: 1.222+/-0.000 χ^2/NDF : 431640826085.1

yield_bpm0l03Y_rms vs Slug, Sign Corrected



Right In: 0.009 $\pm$ 0.000 χ^2 /NDF: 8639260.3/32

Left Out: 0.077 $\pm$ 0.000 χ^2 /NDF:4217954.3/24

Right Out: 0.009 $\pm$ 0.000 χ^2 /NDF: 10396735.7/35

Left In: 0.064 $\pm$ 0.000 χ^2 /NDF:6990231.5/22

Left: 0.070 $\pm$ 0.000 χ^2 /NDF: 11584112.3/47

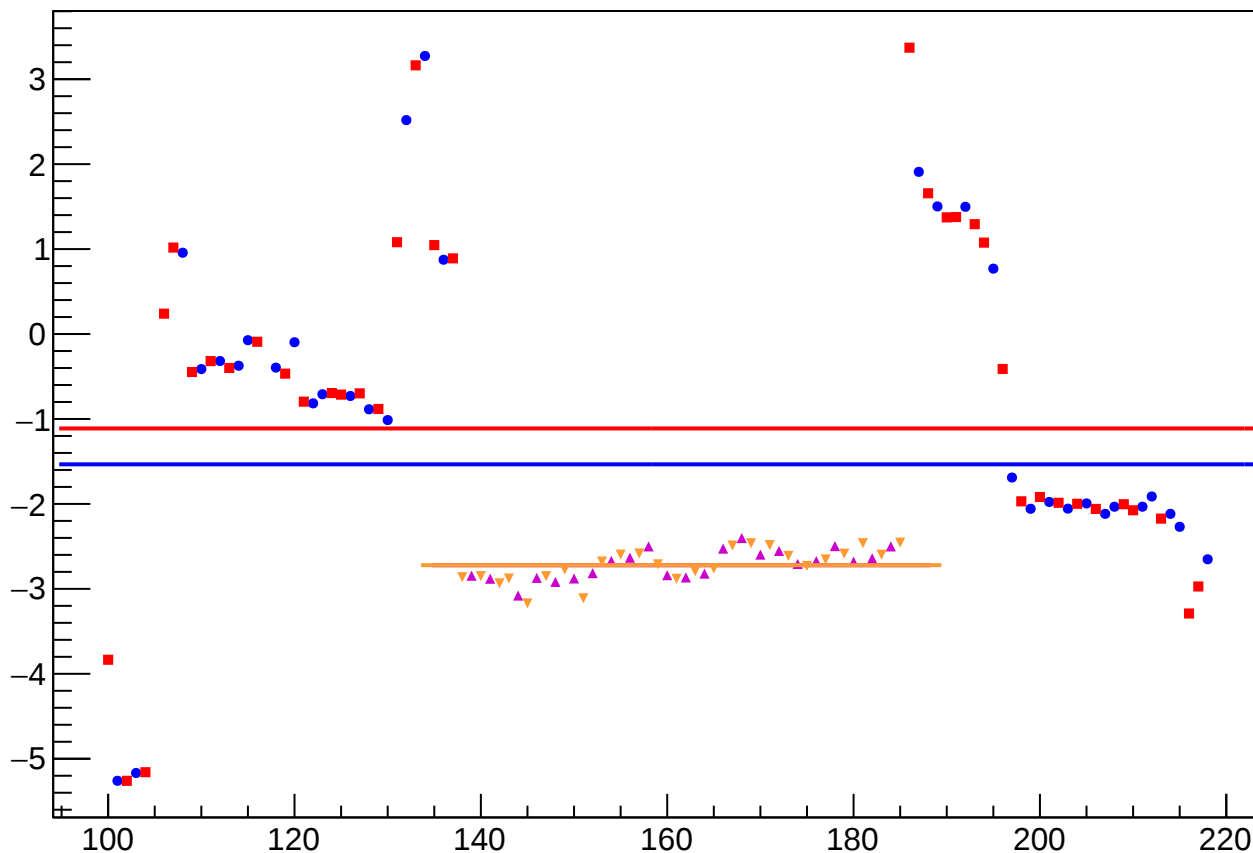
Right: 0.009 $\pm$ 0.000 χ^2 /NDF: 19040646.4/68

In: 0.011 $\pm$ 0.000 χ^2 /NDF:30758674.0/55

Out: 0.012 $\pm$ 0.000 χ^2 /NDF:34452429.6/60

All: 0.012 $\pm$ 0.000 χ^2 /NDF: 65241867.6/116

yield_bpm0l04X_mean vs Slug, Sign Corrected



Right In: -1.534+/-0.000 χ^2/NDF : 209981828984.2/32

Left Out: -2.721+/-0.000 χ^2/NDF : 10397156971.6/24

Right Out: -1.112+/-0.000 χ^2/NDF : 250416685415.8/35

Left In: -2.722+/-0.000 χ^2/NDF : 8146484592.1/22

Left: -2.722+/-0.000 χ^2/NDF : 18543711860.5/47

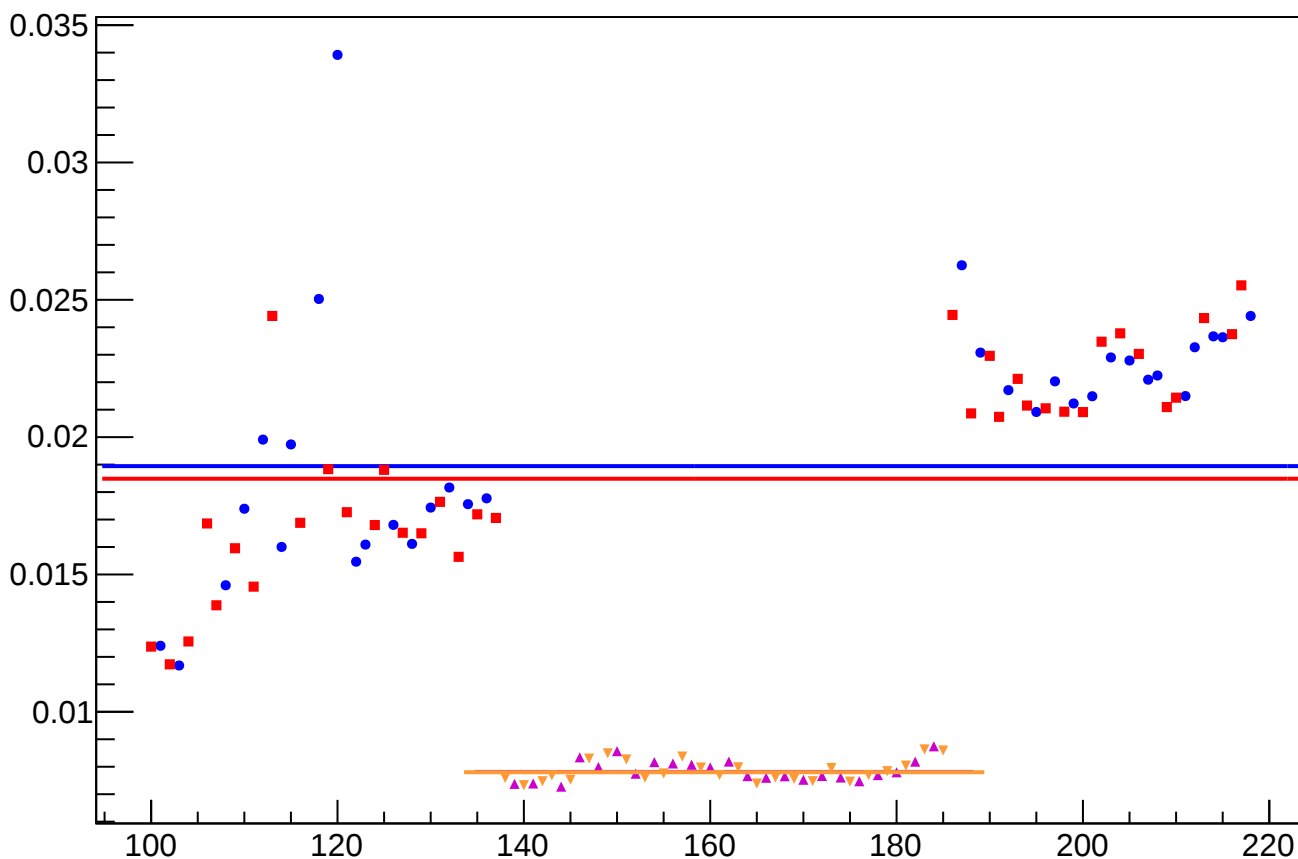
Right: -1.314+/-0.000 χ^2/NDF : 464587052841.8/68

In: -2.554+/-0.000 χ^2/NDF : 272822093590.3/55

Out: -2.489+/-0.000 χ^2/NDF : 369496100915.8/60

All: -2.520+/-0.000 χ^2/NDF : 643004662600.5

yield_bpm0l04X_rms vs Slug, Sign Corrected



Right In: 0.019+/-0.000 χ^2/NDF : 1648768.5/32

Left Out: 0.008+/-0.000 χ^2/NDF : 71164.4/24

Right Out: 0.018+/-0.000 χ^2/NDF : 1578928.1/35

Left In: 0.008+/-0.000 χ^2/NDF : 67610.2/22

Left: 0.008+/-0.000 χ^2/NDF : 138804.4/47

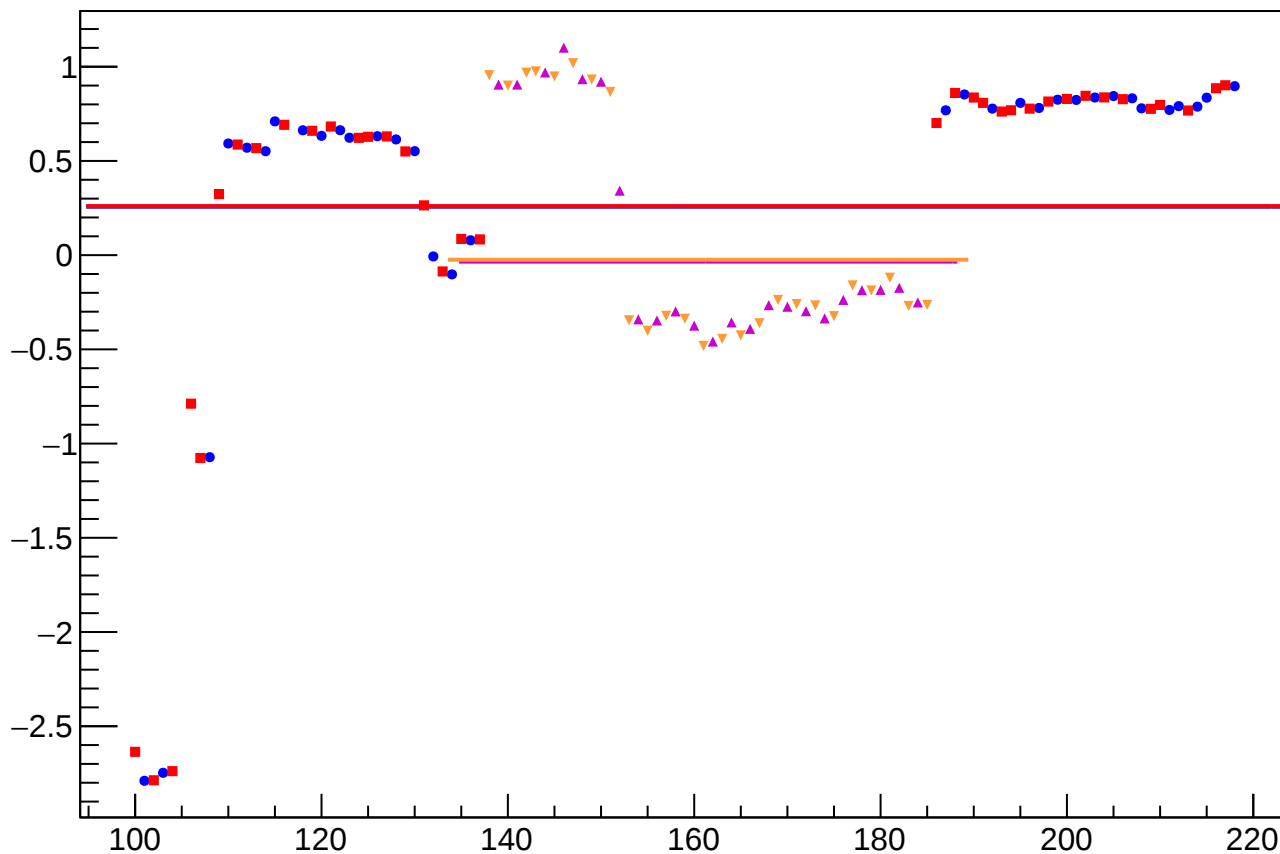
Right: 0.019+/-0.000 χ^2/NDF : 3237579.1/68

In: 0.009+/-0.000 χ^2/NDF : 11323532.2/55

Out: 0.009+/-0.000 χ^2/NDF : 11230754.1/60

All: 0.009+/-0.000 χ^2/NDF : 22554973.6/116

yield_bpm0l04Y_mean vs Slug, Sign Corrected



Right In: 0.257+/-0.000

χ^2/NDF : 908613330150.8/32

Left: -0.029+/-0.000

χ^2/NDF : 249405201350.6/47

Right: 0.259+/-0.000

χ^2/NDF : 1872640925071.5/68

Left Out: -0.024+/-0.000

χ^2/NDF : 135451649275.0/24

In: 0.156+/-0.000

χ^2/NDF : 1048412632180.9/55

Right Out: 0.260+/-0.000

χ^2/NDF : 964023607985.7/35

Out: 0.165+/-0.000

χ^2/NDF : 1125393063860.0/60

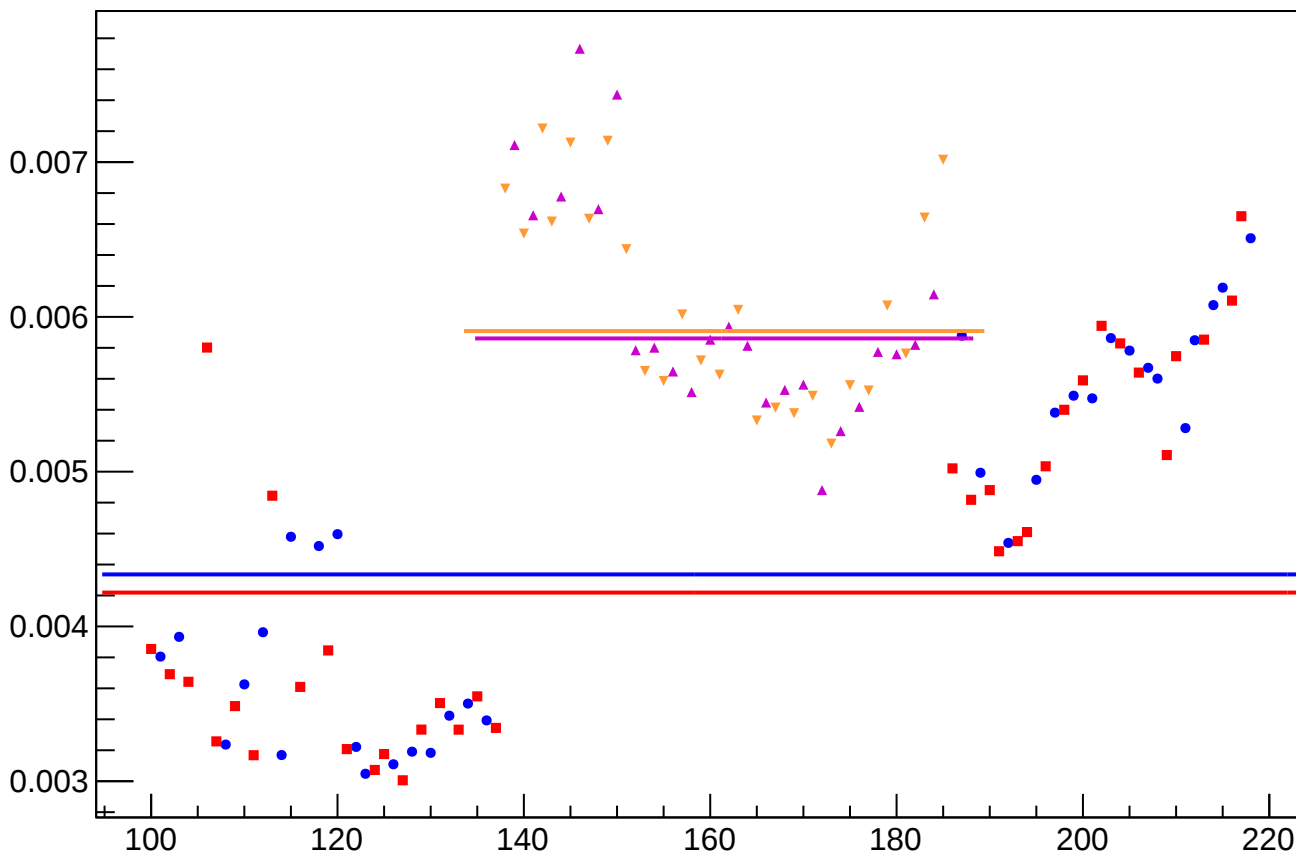
Left In: -0.034+/-0.000

χ^2/NDF : 113929060918.1/22

All: 0.160+/-0.000

χ^2/NDF : 2173854563486.0/100

yield_bpm0l04Y_rms vs Slug, Sign Corrected



Right In: 0.004 $\pm$ 0.000 χ^2 /NDF: 2032940.6/32

Left Out: 0.006 $\pm$ 0.000 χ^2 /NDF:314309.7/24

Right Out: 0.004 $\pm$ 0.000 χ^2 /NDF: 2012205.4/35

Left In: 0.006 $\pm$ 0.000 χ^2 /NDF:364512.1/22

Left: 0.006 $\pm$ 0.000 χ^2 /NDF: 679905.3/47

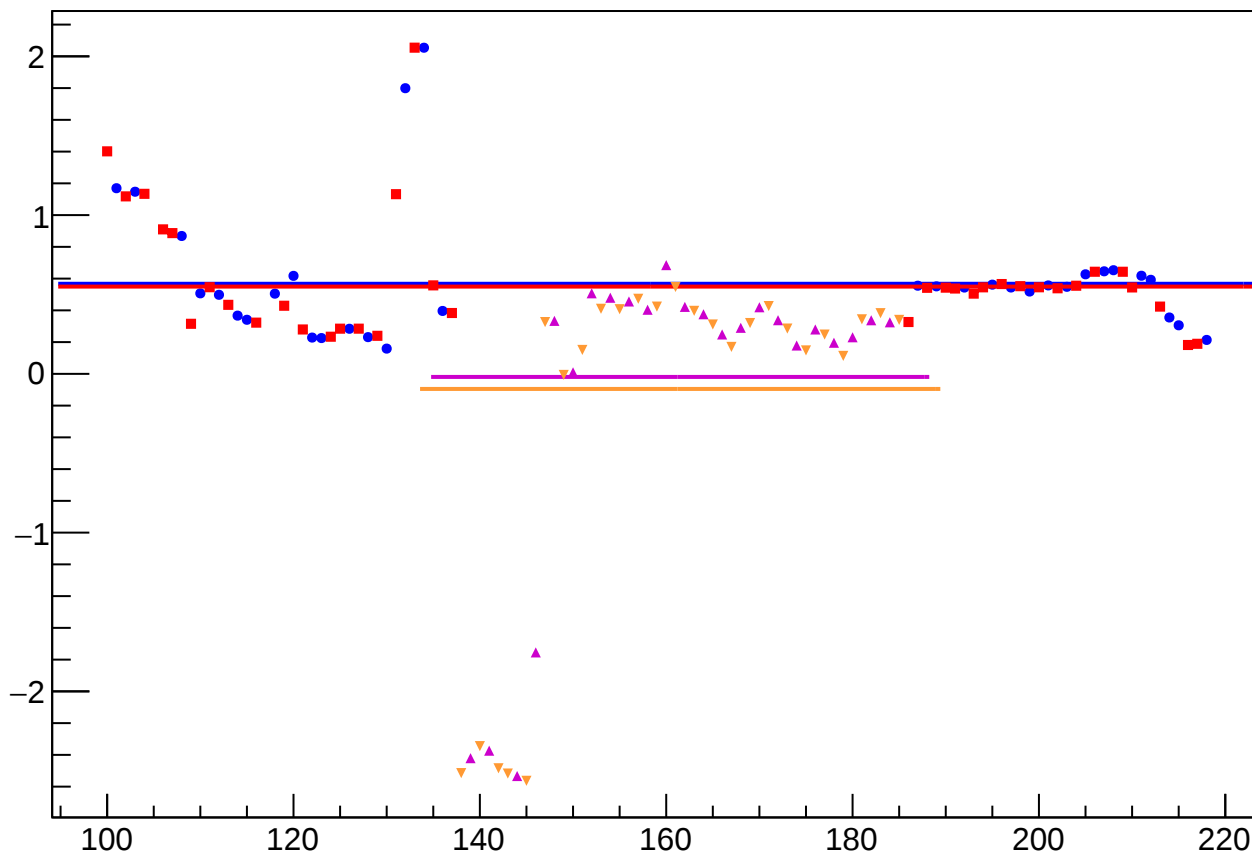
Right: 0.004 $\pm$ 0.000 χ^2 /NDF: 4057716.0/68

In: 0.005 $\pm$ 0.000 χ^2 /NDF:3811823.8/55

Out: 0.005 $\pm$ 0.000 χ^2 /NDF:4156382.6/60

All: 0.005 $\pm$ 0.000 χ^2 /NDF: 7976542.4/116

yield_bpm0l05X_mean vs Slug, Sign Corrected



Right In: 0.567 $\pm$ 0.000 χ^2 /NDF: 55590145575.9/32

Left Out: -0.095 $\pm$ 0.000 χ^2 /NDF: 505606573631.9/24

Right Out: 0.550 $\pm$ 0.000 χ^2 /NDF: 63303148813.2/35

Left In: -0.019 $\pm$ 0.000 χ^2 /NDF: 417104863944.5/22

Left: -0.058 $\pm$ 0.000 χ^2 /NDF: 924153662333.7/47

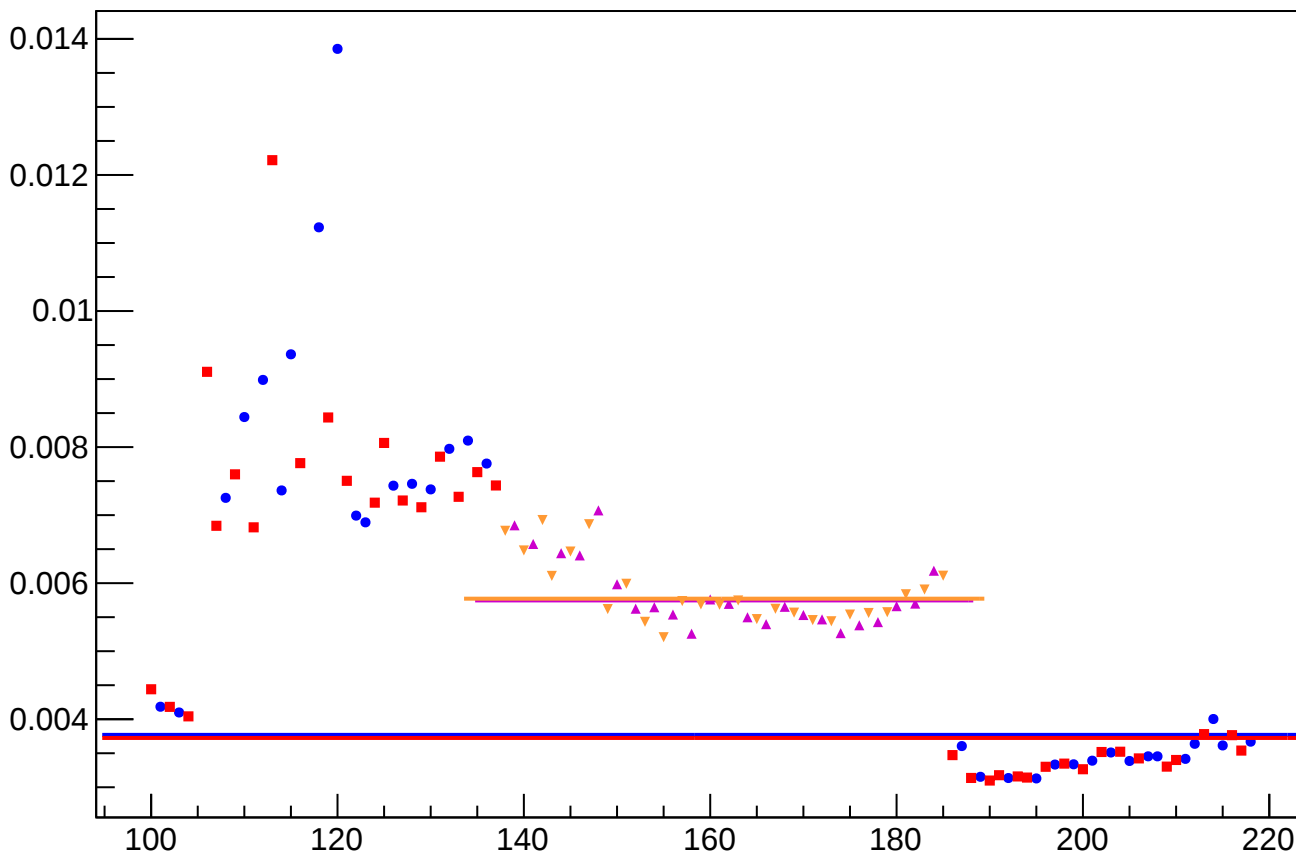
Right: 0.558 $\pm$ 0.000 χ^2 /NDF: 119068698238.5/68

In: 0.384 $\pm$ 0.000 χ^2 /NDF: 589482090111.6/55

Out: 0.351 $\pm$ 0.000 χ^2 /NDF: 716985293704.4/60

All: 0.367 $\pm$ 0.000 χ^2 /NDF: 1307364378027.

yield_bpm0l05X_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 3153988.8/32

Left Out: 0.006+/-0.000 χ^2/NDF :177680.7/24

Right Out: 0.004+/-0.000 χ^2/NDF : 3198183.1/35

Left In: 0.006+/-0.000 χ^2/NDF :204066.4/22

Left: 0.006+/-0.000 χ^2/NDF : 382076.8/47

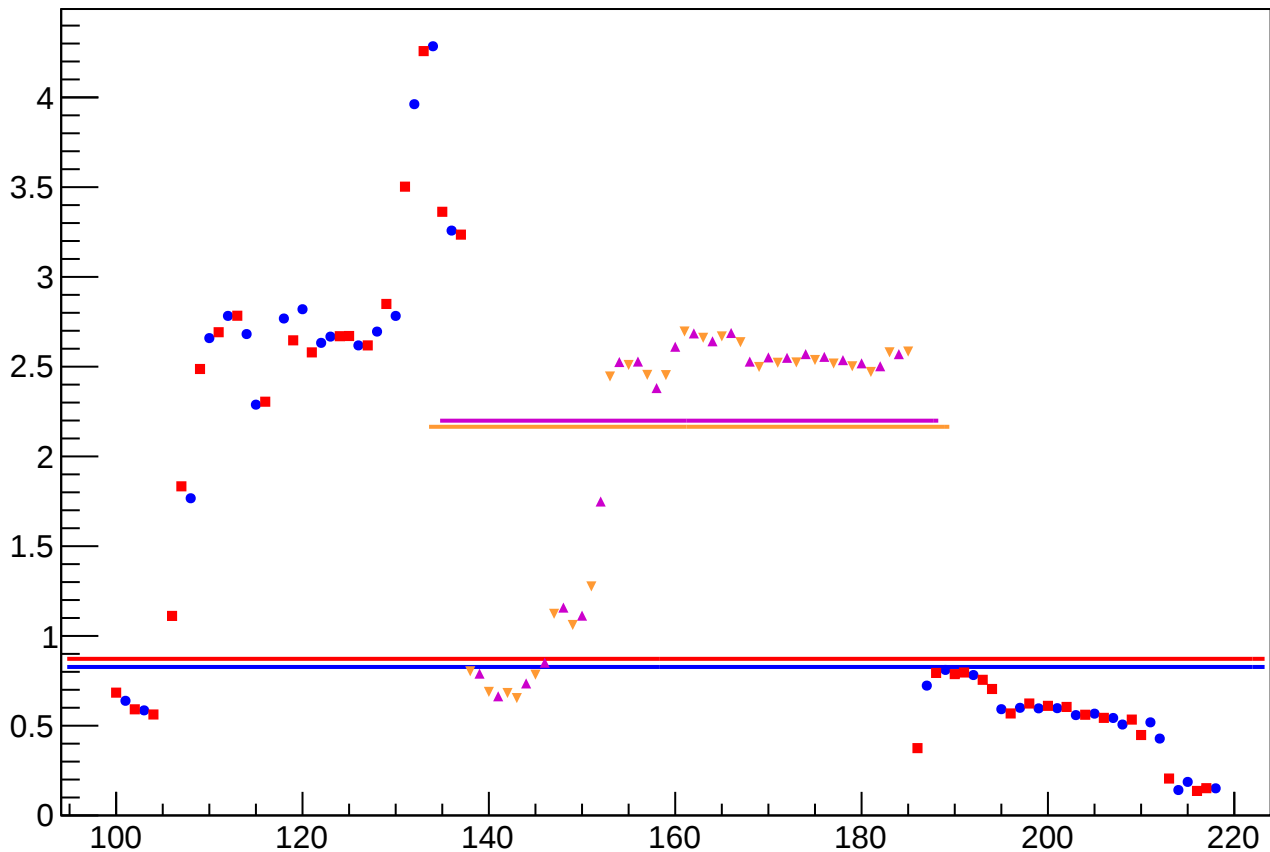
Right: 0.004+/-0.000 χ^2/NDF : 6354462.2/68

In: 0.004+/-0.000 χ^2/NDF :6008438.1/55

Out: 0.004+/-0.000 χ^2/NDF :6362499.7/60

All: 0.004+/-0.000 χ^2/NDF : 12372524.3/116

yield_bpm0l05Y_mean vs Slug, Sign Corrected



Right In: 0.827+/-0.000 χ^2/NDF : 338245761990.0/32

Left Out: 2.165+/-0.000 χ^2/NDF : 292800056899.6/24

Right Out: 0.872+/-0.000 χ^2/NDF : 386911749030.9/35

Left In: 2.199+/-0.000 χ^2/NDF : 253166239065.4/22

Left: 2.182+/-0.000 χ^2/NDF : 546302258971.9/47

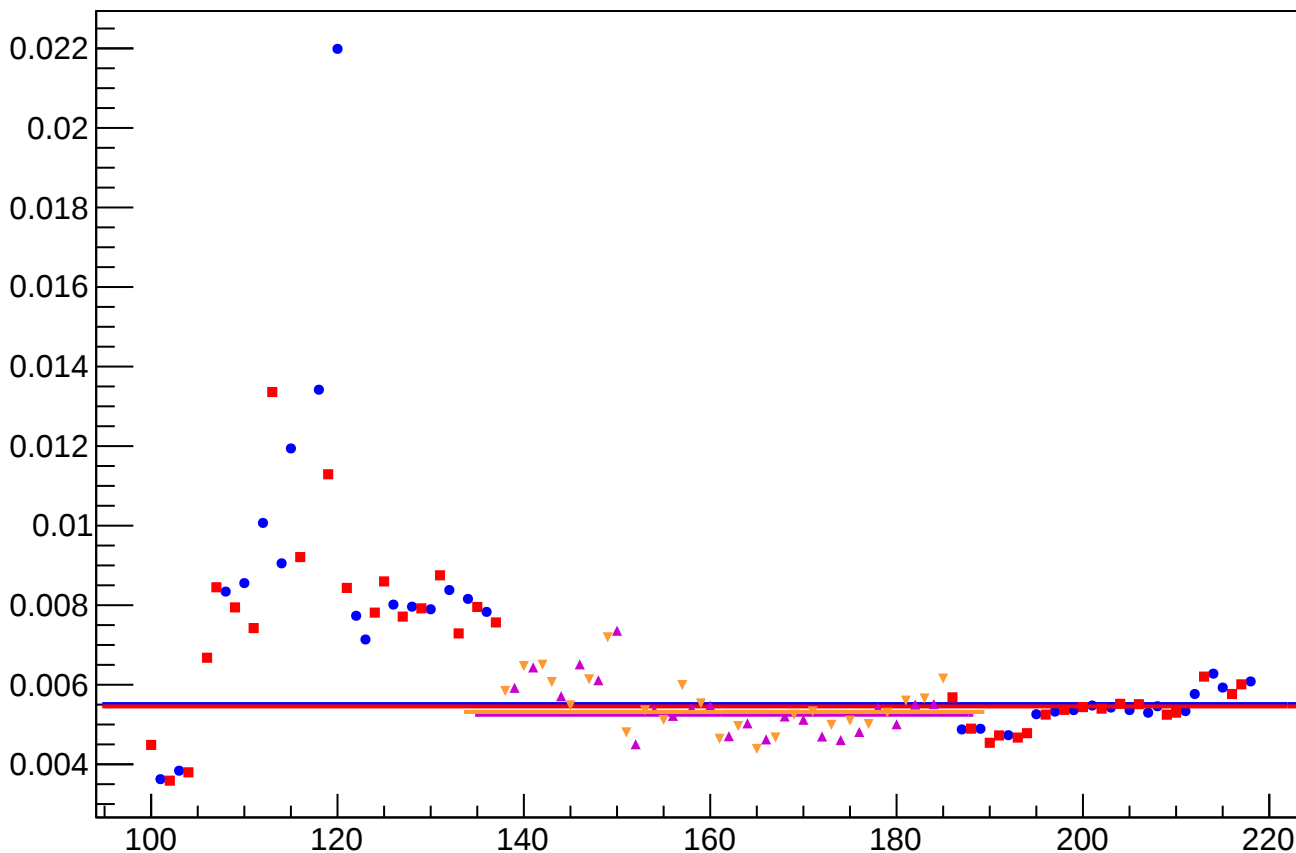
Right: 0.850+/-0.000 χ^2/NDF : 725711539376.7/68

In: 1.544+/-0.000 χ^2/NDF : 1106078801351.7/55

Out: 1.537+/-0.000 χ^2/NDF : 1156832222177.1/60

All: 1.540+/-0.000 χ^2/NDF : 2262939522274.

yield_bpm0l05Y_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 2059872.7/32

Left Out: 0.005+/-0.000 χ^2/NDF :398795.0/24

Right Out: 0.005+/-0.000 χ^2/NDF : 1921837.8/35

Left In: 0.005+/-0.000 χ^2/NDF :425864.8/22

Left: 0.005+/-0.000 χ^2/NDF : 827475.4/47

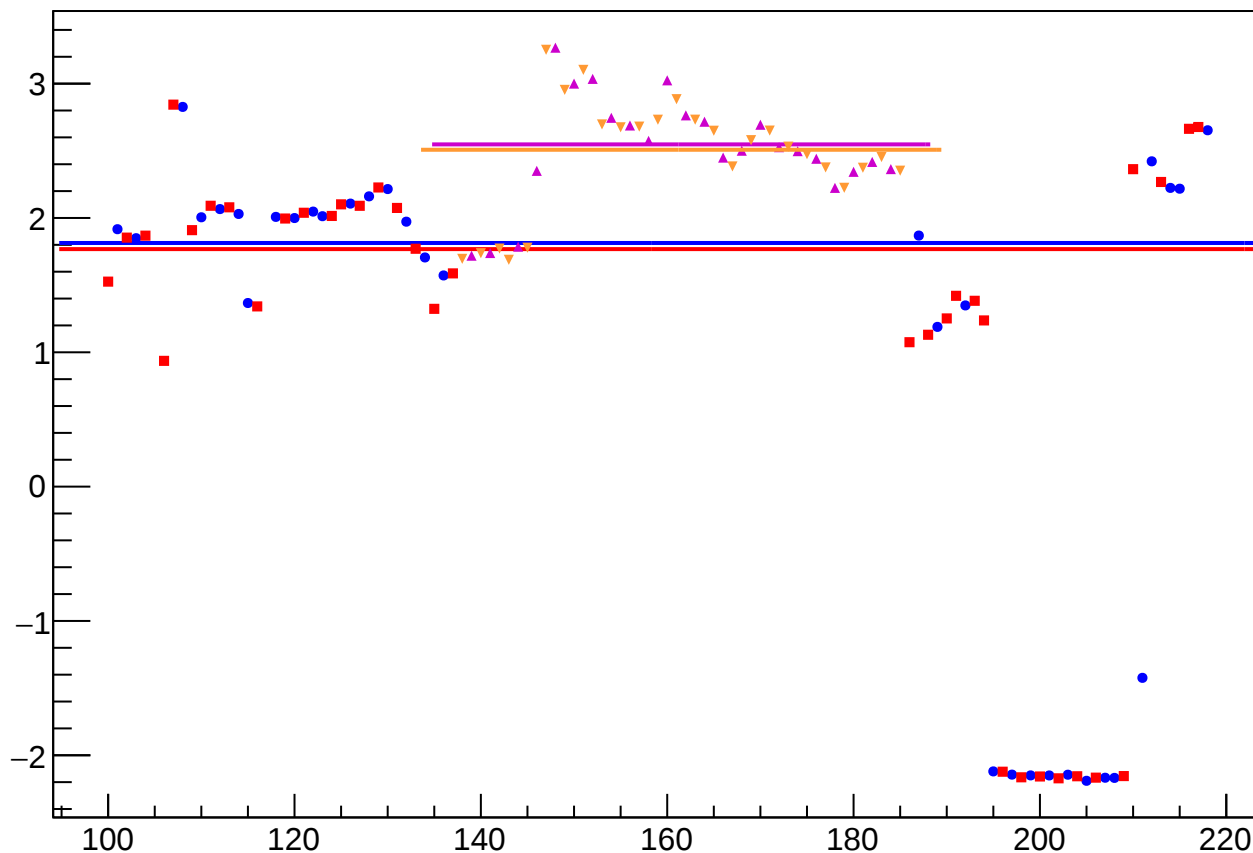
Right: 0.005+/-0.000 χ^2/NDF : 3983599.7/68

In: 0.005+/-0.000 χ^2/NDF :2525238.9/55

Out: 0.005+/-0.000 χ^2/NDF :2331808.5/60

All: 0.005+/-0.000 χ^2/NDF : 4857144.5/116

yield_bpm0l06X_mean vs Slug, Sign Corrected



Left: 2.527 $\pm$ 0.000 χ^2/NDF : 97963993742.3/47

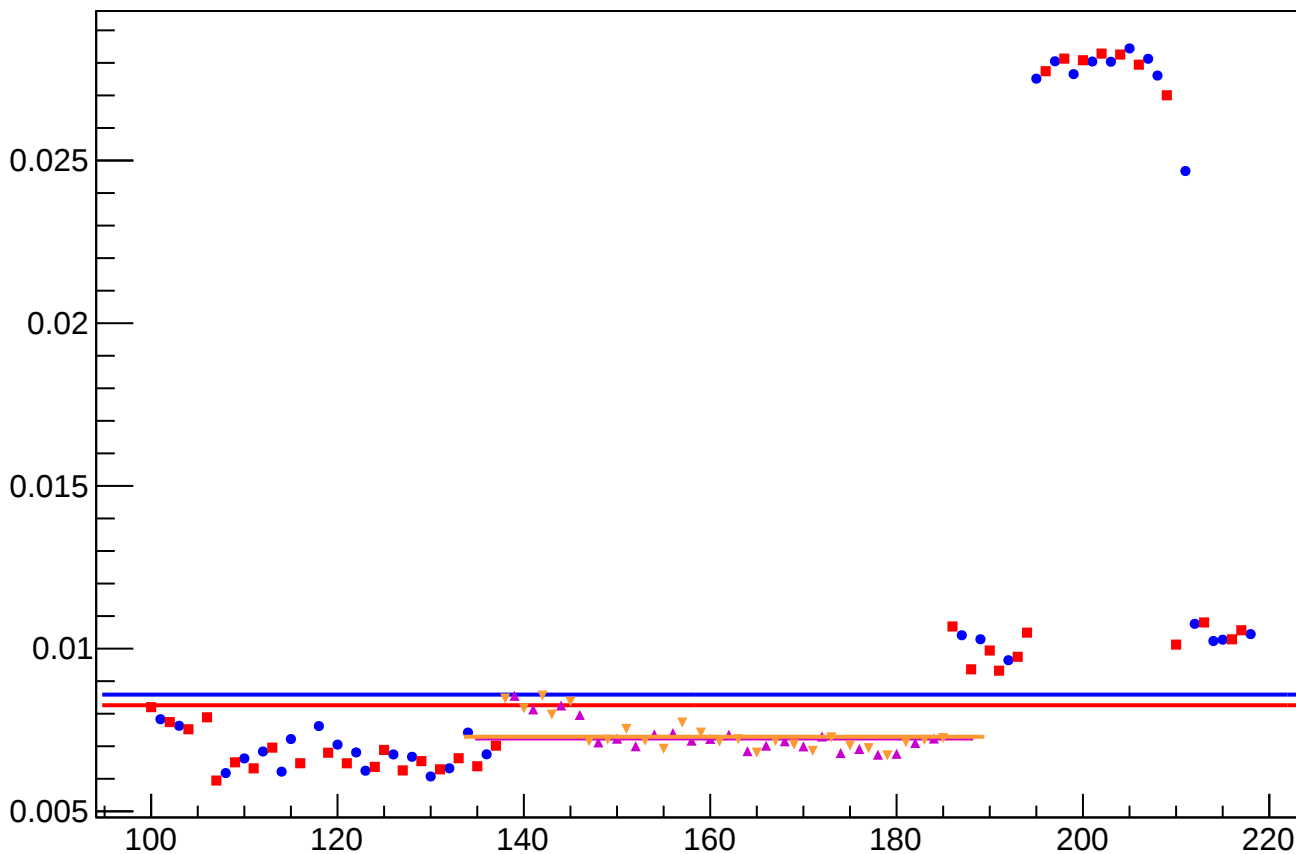
Right: 1.789 $\pm$ 0.000 χ^2/NDF : 323261548582.7/68

In: 2.275 $\pm$ 0.000 χ^2/NDF : 277098112012.3/55

Out: 2.214 $\pm$ 0.000 χ^2/NDF : 278420694294.3/60

All: 2.243 $\pm$ 0.000 χ^2/NDF : 556507231878.1

yield_bpm0l06X_rms vs Slug, Sign Corrected



Right In: 0.009+/-0.000 χ^2/NDF : 7723463.4/32

Left Out: 0.007+/-0.000 χ^2/NDF :140788.4/24

Right Out: 0.008+/-0.000 χ^2/NDF : 6525029.8/35

Left In: 0.007+/-0.000 χ^2/NDF :125233.2/22

Left: 0.007+/-0.000 χ^2/NDF : 266945.6/47

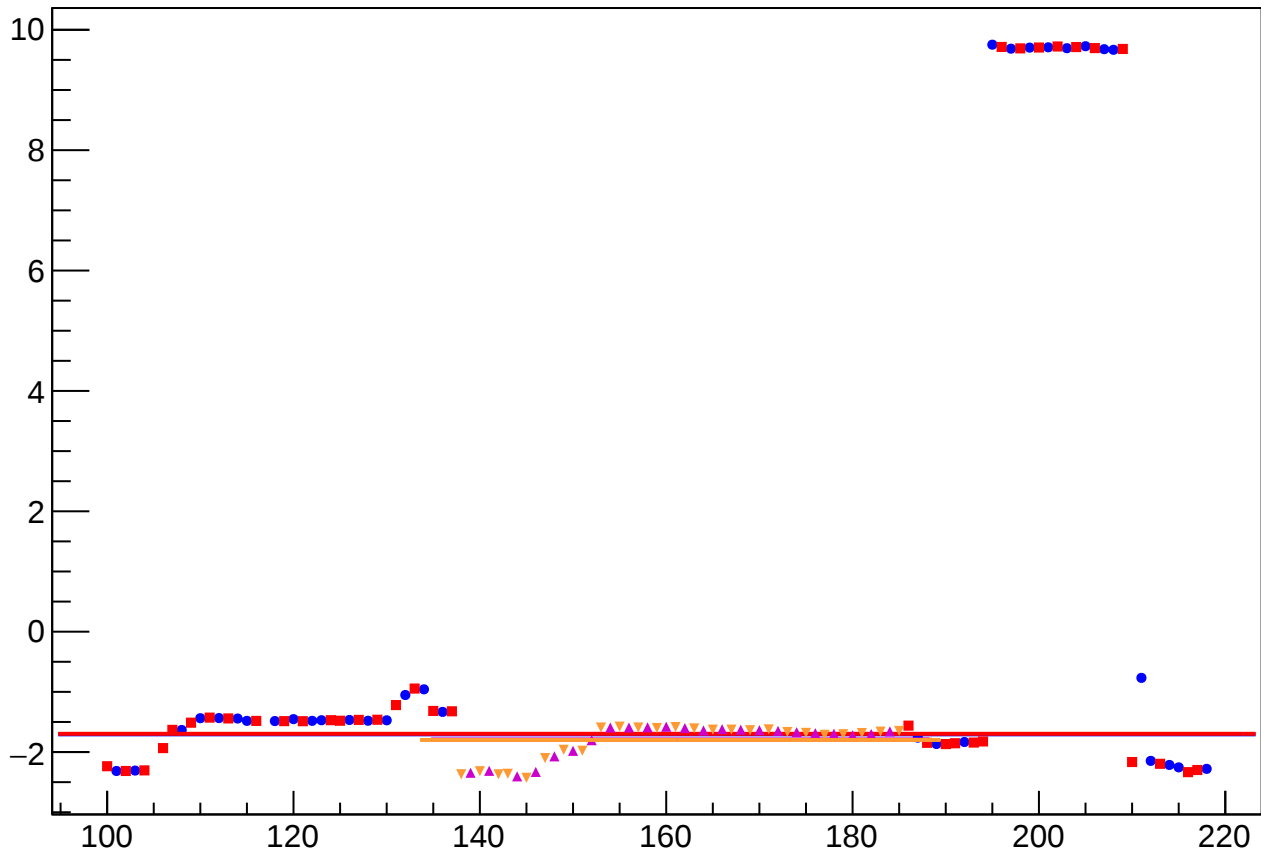
Right: 0.008+/-0.000 χ^2/NDF : 14269929.4/68

In: 0.008+/-0.000 χ^2/NDF :8276542.7/55

Out: 0.008+/-0.000 χ^2/NDF :6910575.5/60

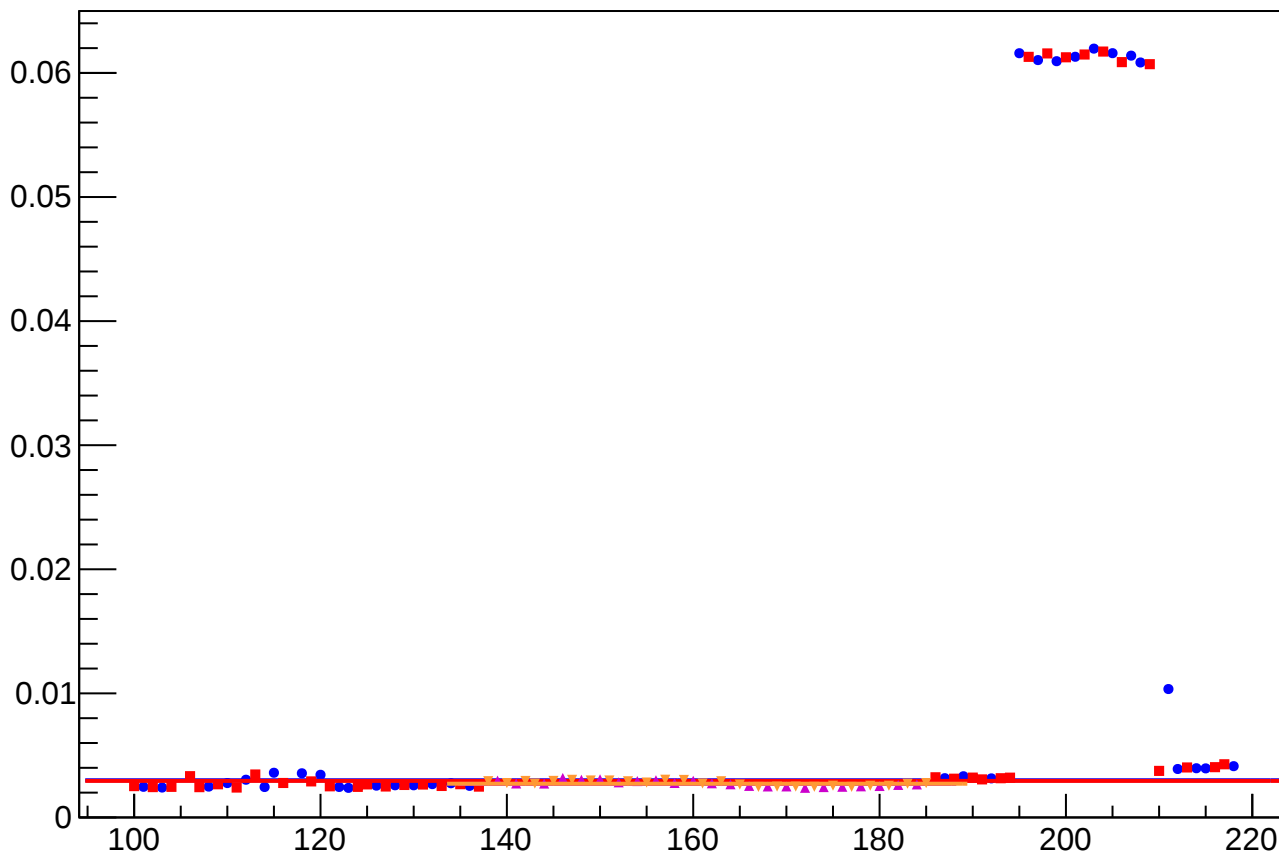
All: 0.008+/-0.000 χ^2/NDF : 15189153.1/116

yield_bpm0l06Y_mean vs Slug, Sign Corrected



Right In: -1.706+/-0.000	χ^2/NDF : 418041813767.4/32	Left: -1.795+/-0.000	χ^2/NDF : 345099435201.4/47
Left Out: -1.799+/-0.000	χ^2/NDF : 185362087438.8/24	Right: -1.701+/-0.000	χ^2/NDF : 815326530662.9/68
Right Out: -1.697+/-0.000	χ^2/NDF : 397231768255.9/35	In: -1.761+/-0.000	χ^2/NDF : 583383510223.5/55
Left In: -1.790+/-0.000	χ^2/NDF : 159648935510.8/22	Out: -1.760+/-0.000	χ^2/NDF : 592002179951.8/60
		All: -1.760+/-0.000	χ^2/NDF : 1175386210874

yield_bpm0l06Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 12183761.6/32

Left Out: 0.003+/-0.000 χ^2/NDF :199695.2/24

Right Out: 0.003+/-0.000 χ^2/NDF : 10375030.5/35

Left In: 0.003+/-0.000 χ^2/NDF :220327.9/22

Left: 0.003+/-0.000 χ^2/NDF : 420716.9/47

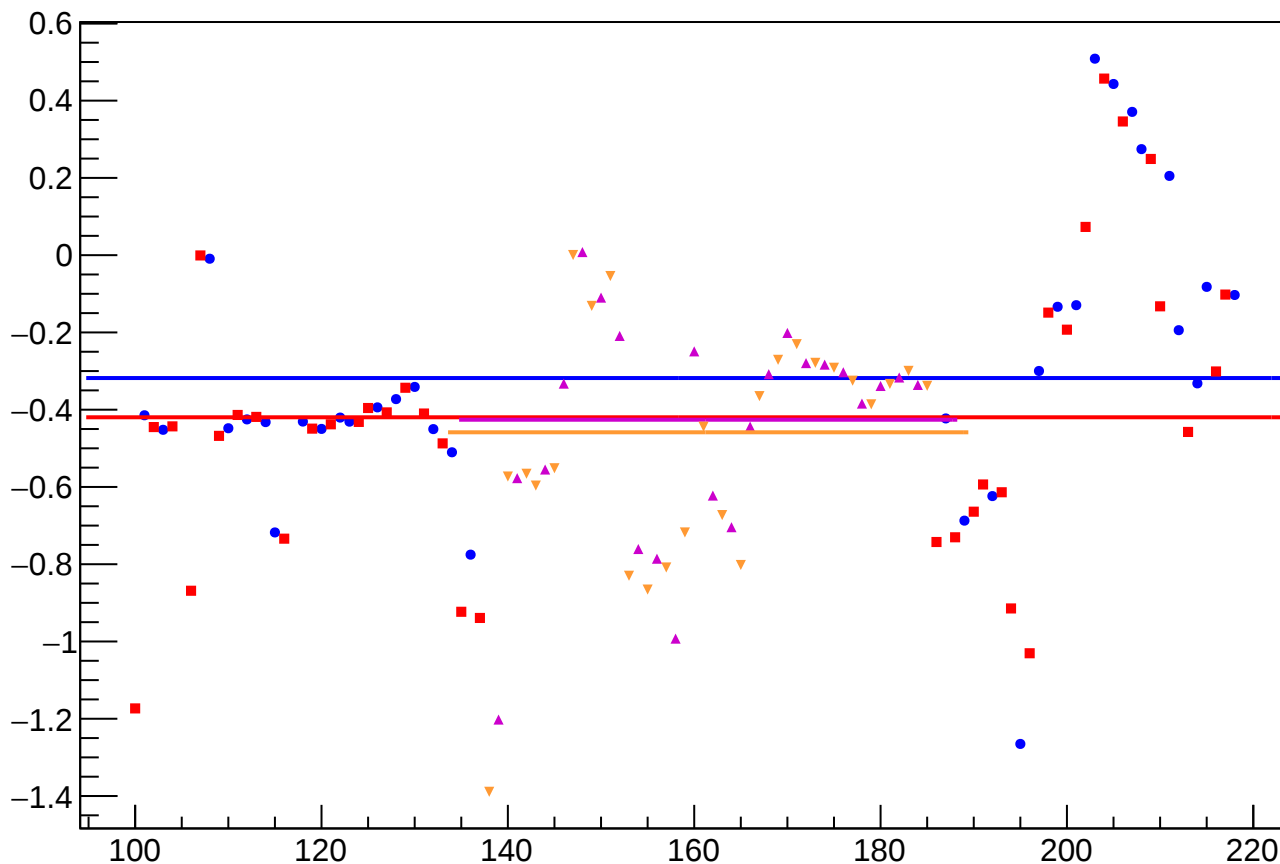
Right: 0.003+/-0.000 χ^2/NDF : 22562322.1/68

In: 0.003+/-0.000 χ^2/NDF :12544826.8/55

Out: 0.003+/-0.000 χ^2/NDF :10668740.7/60

All: 0.003+/-0.000 χ^2/NDF : 23213567.6/116

yield_bpm0l07X_mean vs Slug, Sign Corrected



Right In: -0.318 ± 0.000 $\chi^2/\text{NDF}: 11025559611.5/32$

Left Out: -0.459 ± 0.000 $\chi^2/\text{NDF}: 9916462814.9/24$

Right Out: -0.420 ± 0.000 $\chi^2/\text{NDF}: 10401221061.3/35$

Left In: -0.426 ± 0.000 $\chi^2/\text{NDF}: 8424222576.0/22$

Left: -0.443 ± 0.000 $\chi^2/\text{NDF}: 18401926676.9/47$

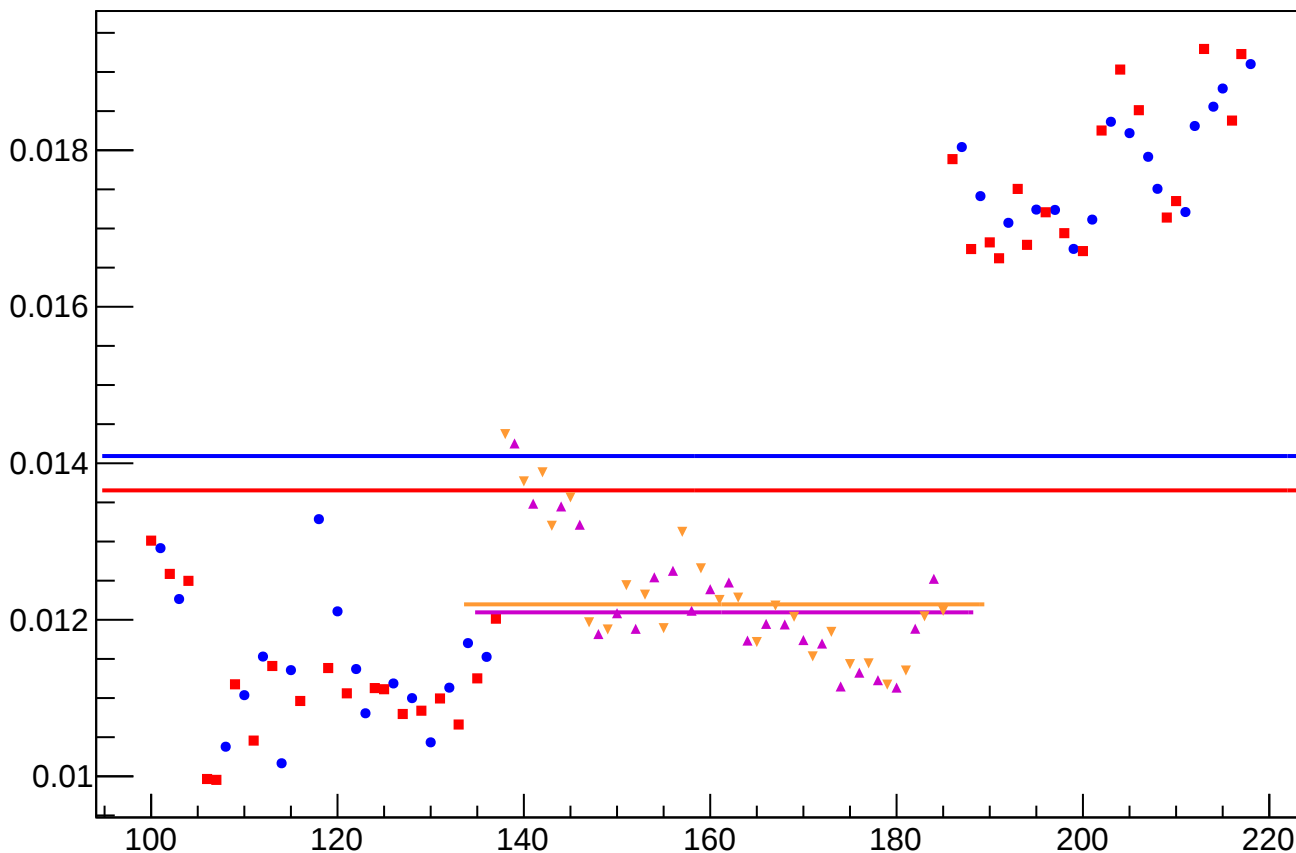
Right: -0.371 ± 0.000 $\chi^2/\text{NDF}: 21883113699.0/68$

In: -0.380 ± 0.000 $\chi^2/\text{NDF}: 20014613293.3/55$

Out: -0.441 ± 0.000 $\chi^2/\text{NDF}: 20396005316.1/60$

All: -0.412 ± 0.000 $\chi^2/\text{NDF}: 40798191226.2/100$

yield_bpm0l07X_rms vs Slug, Sign Corrected



Right In: 0.014+/-0.000 χ^2/NDF : 1718447.5/32

Left Out: 0.012+/-0.000 χ^2/NDF :141850.9/24

Right Out: 0.014+/-0.000 χ^2/NDF : 1975477.7/35

Left In: 0.012+/-0.000 χ^2/NDF :127308.3/22

Left: 0.012+/-0.000 χ^2/NDF : 270367.5/47

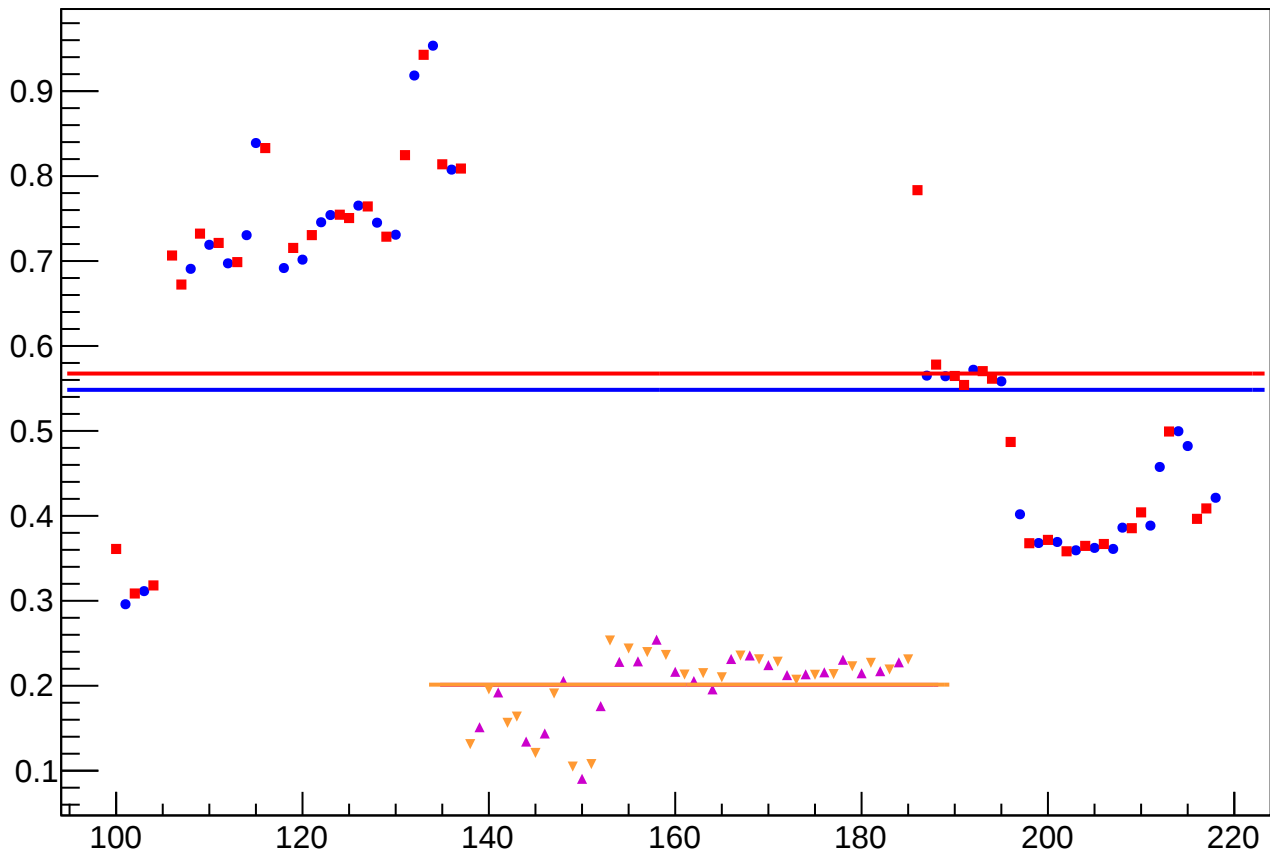
Right: 0.014+/-0.000 χ^2/NDF : 3710958.7/68

In: 0.013+/-0.000 χ^2/NDF :2232776.6/55

Out: 0.013+/-0.000 χ^2/NDF :2337315.9/60

All: 0.013+/-0.000 χ^2/NDF : 4572671.2/116

yield_bpm0l07Y_mean vs Slug, Sign Corrected



Right In: 0.548 $\pm$ 0.000 χ^2 /NDF: 77705715717.2/32

Left Out: 0.201 $\pm$ 0.000 χ^2 /NDF: 7090760823.7/24

Right Out: 0.568 $\pm$ 0.000 χ^2 /NDF: 77073615370.5/35

Left In: 0.201 $\pm$ 0.000 χ^2 /NDF: 5671770181.2/22

Left: 0.201 $\pm$ 0.000 χ^2 /NDF: 12762673178.0/47

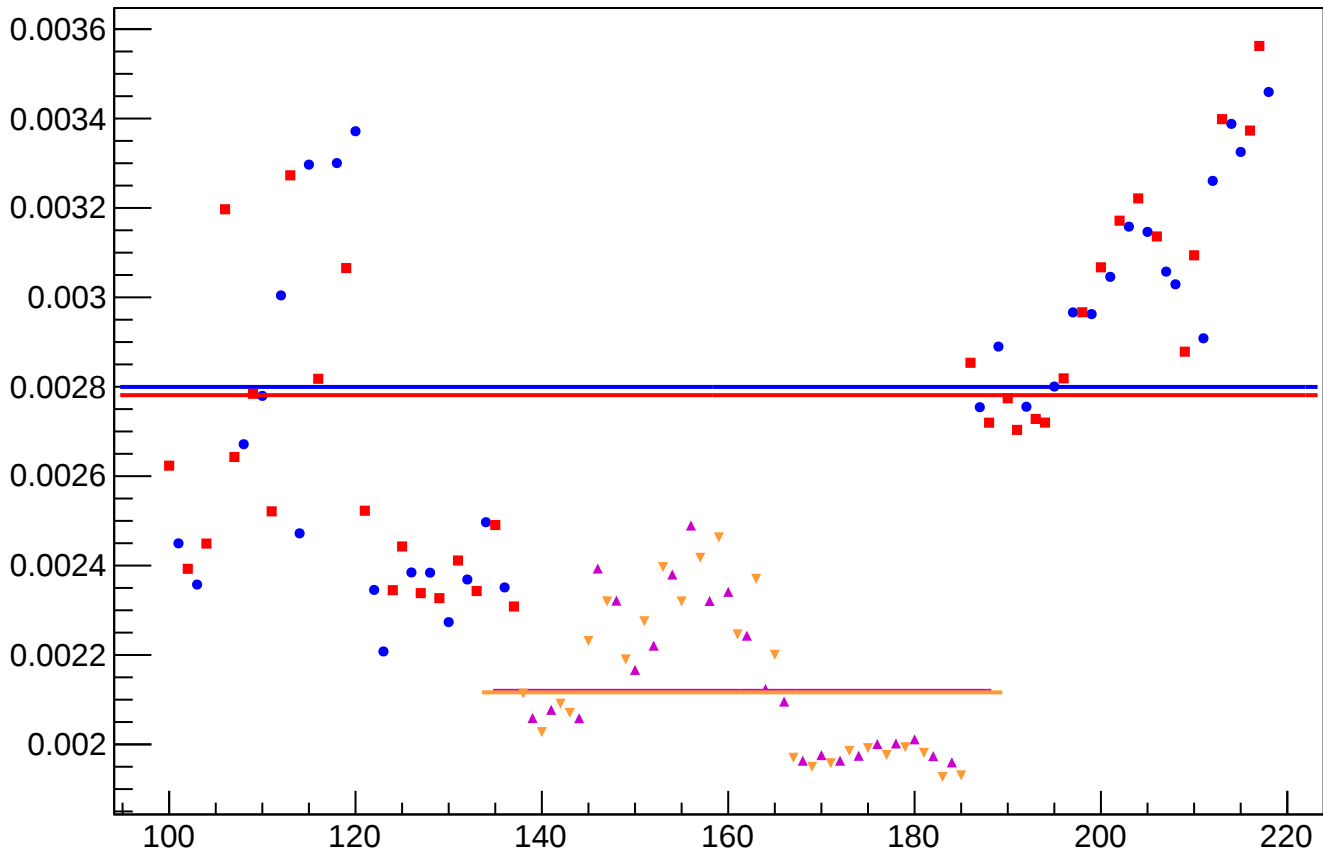
Right: 0.558 $\pm$ 0.000 χ^2 /NDF: 155194775502.9/68

In: 0.329 $\pm$ 0.000 χ^2 /NDF: 252566382471.7/55

Out: 0.334 $\pm$ 0.000 χ^2 /NDF: 281063553780.8/60

All: 0.332 $\pm$ 0.000 χ^2 /NDF: 533714897465.5

yield_bpm0l07Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 593831.8/32

Left Out: 0.002+/-0.000 χ^2/NDF :224498.3/24

Right Out: 0.003+/-0.000 χ^2/NDF : 521090.8/35

Left In: 0.002+/-0.000 χ^2/NDF :189228.6/22

Left: 0.002+/-0.000 χ^2/NDF : 413772.2/47

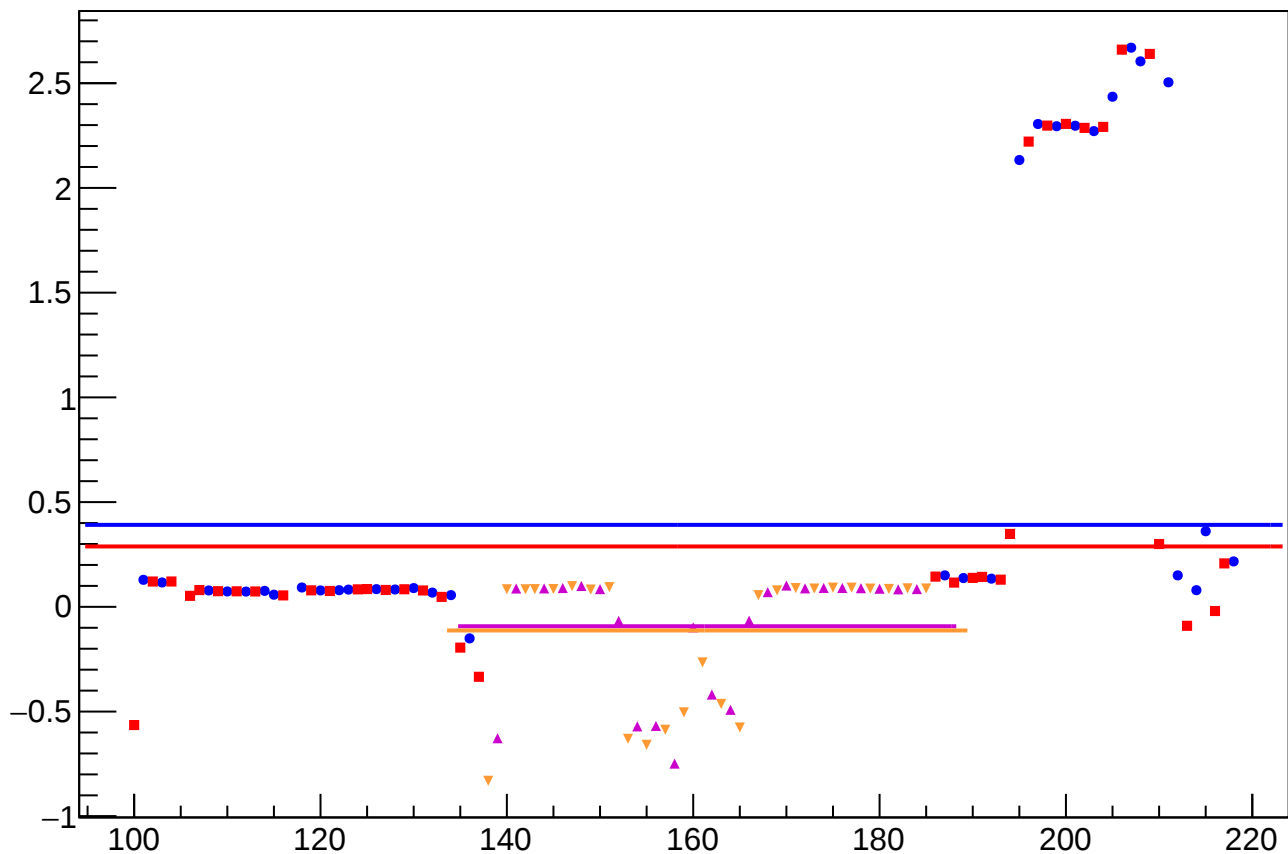
Right: 0.003+/-0.000 χ^2/NDF : 1115690.1/68

In: 0.002+/-0.000 χ^2/NDF :2079503.6/55

Out: 0.002+/-0.000 χ^2/NDF :2043305.1/60

All: 0.002+/-0.000 χ^2/NDF : 4123780.6/116

yield_bpm0l08X_mean vs Slug, Sign Corrected



Right In: 0.391+/-0.000

χ^2/NDF : 61460459170.6/32

Left: -0.103+/-0.000

χ^2/NDF : 24747894543.0/47

Left Out: -0.113+/-0.000

χ^2/NDF : 13667354077.1/24

Right: 0.336+/-0.000

χ^2/NDF : 114430215138.7/68

Right Out: 0.288+/-0.000

χ^2/NDF : 52421733846.1/35

In: 0.106+/-0.000

χ^2/NDF : 85864906665.7/55

Out: 0.061+/-0.000

χ^2/NDF : 76175820504.3/60

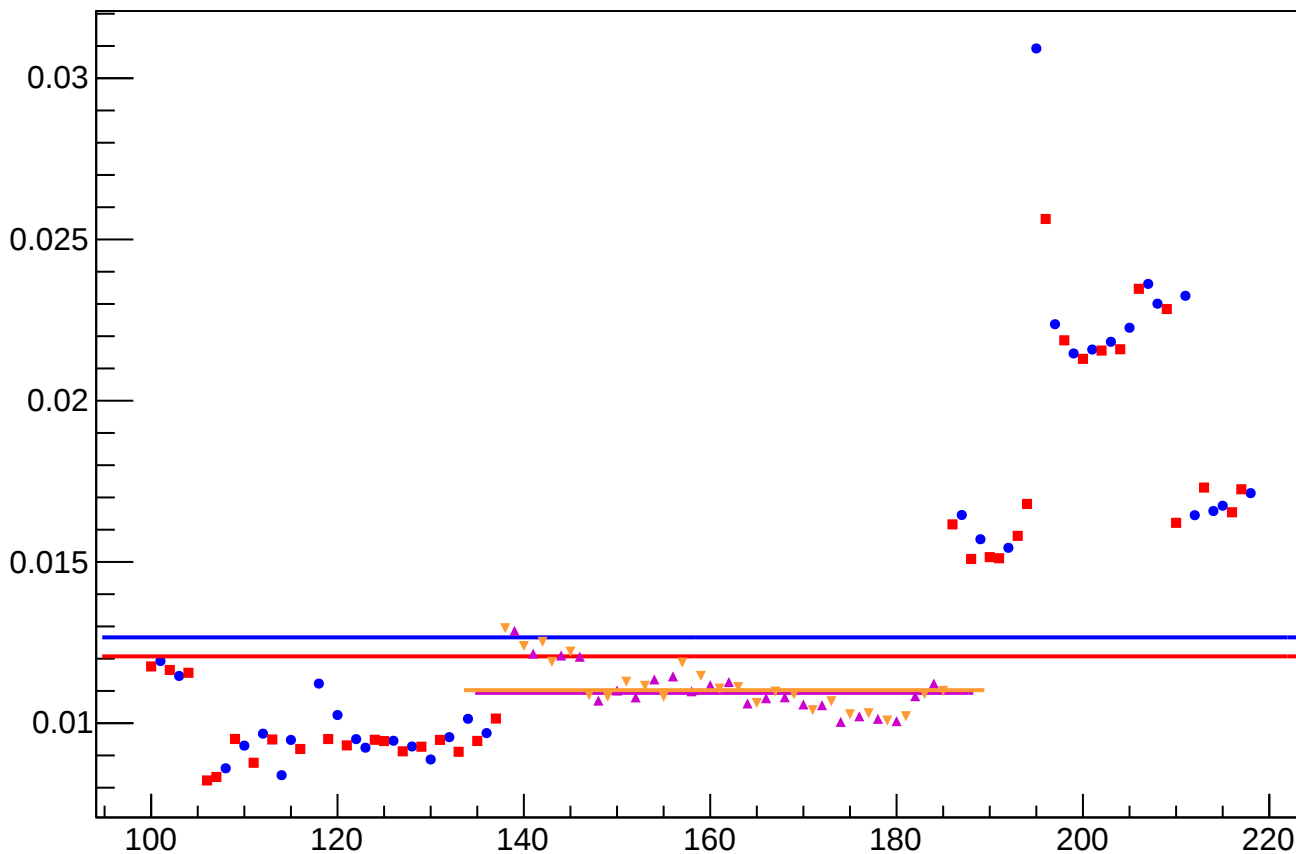
Left In: -0.093+/-0.000

χ^2/NDF : 11051944893.7/22

All: 0.083+/-0.000

χ^2/NDF : 162292217070.1

yield_bpm0l08X_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 4576142.8/32

Left Out: 0.011+/-0.000 χ^2/NDF :141501.7/24

Right Out: 0.012+/-0.000 χ^2/NDF : 4285023.4/35

Left In: 0.011+/-0.000 χ^2/NDF :128914.2/22

Left: 0.011+/-0.000 χ^2/NDF : 271400.1/47

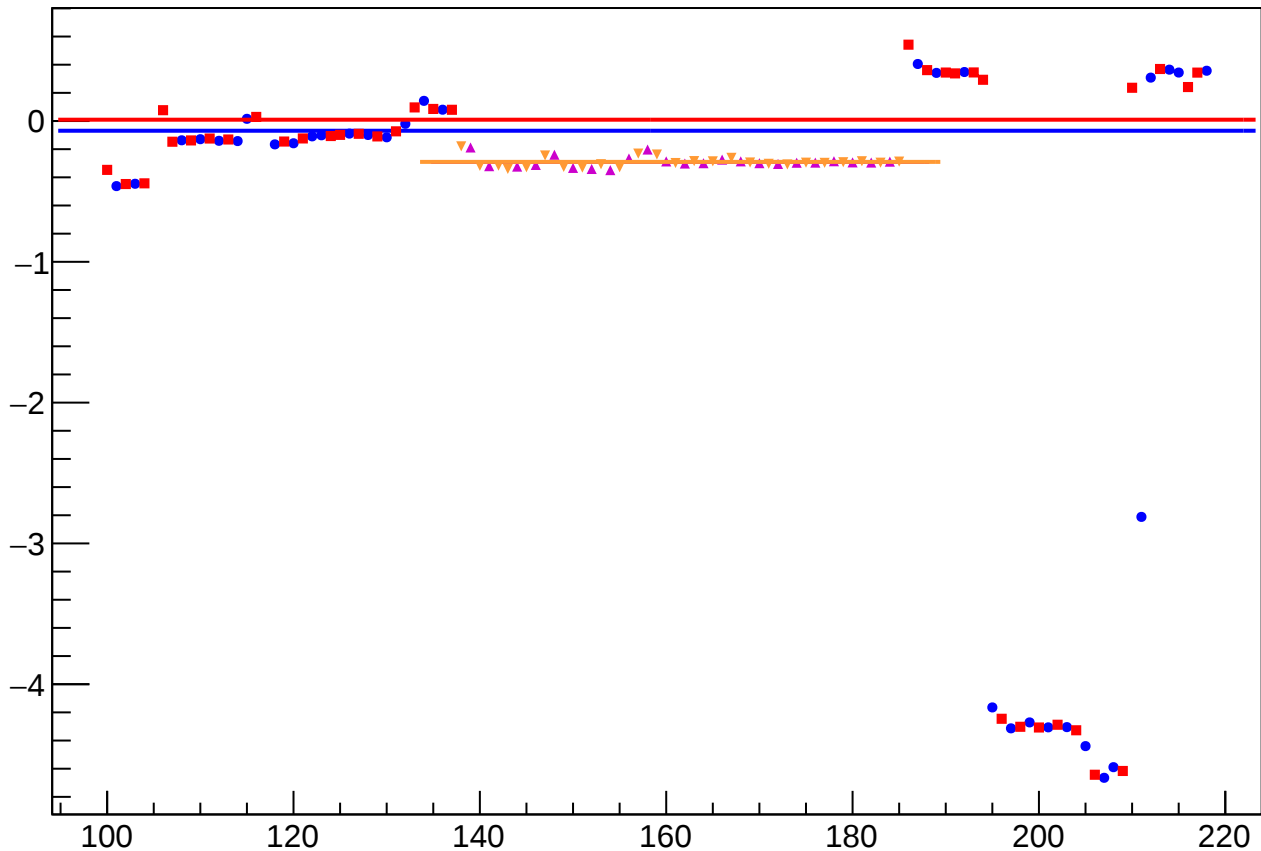
Right: 0.012+/-0.000 χ^2/NDF : 8897050.5/68

In: 0.012+/-0.000 χ^2/NDF :5042674.8/55

Out: 0.011+/-0.000 χ^2/NDF :4564277.2/60

All: 0.012+/-0.000 χ^2/NDF : 9614033.8/116

yield_bpm0l08Y_mean vs Slug, Sign Corrected



Right In: -0.069+/-0.000

χ^2/NDF : 396893610802.1/32

Left: -0.291+/-0.000

χ^2/NDF : 6003615293.4/47

Left Out: -0.290+/-0.000

χ^2/NDF : 2877519093.0/24

Right: -0.027+/-0.000

χ^2/NDF : 749636847150.2/68

Right Out: 0.009+/-0.000

χ^2/NDF : 350784228560.7/35

In: -0.244+/-0.000

χ^2/NDF : 423188193843.8/55

Out: -0.223+/-0.000

χ^2/NDF : 401188650574.0/60

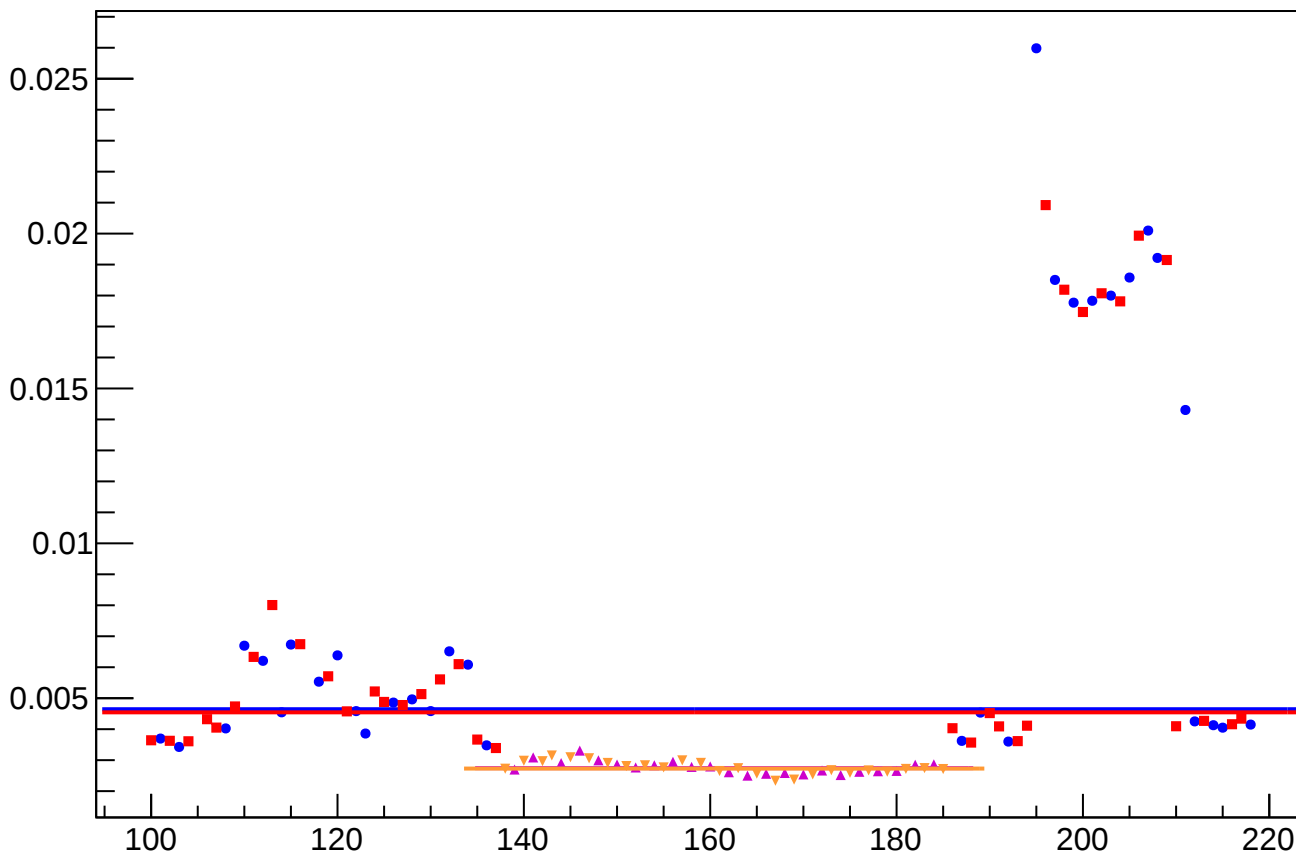
Left In: -0.291+/-0.000

χ^2/NDF : 3125402243.3/22

All: -0.233+/-0.000

χ^2/NDF : 824990901373.0

yield_bpm0l08Y_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 8606418.6/32

Left Out: 0.003+/-0.000 χ^2/NDF :206527.1/24

Right Out: 0.005+/-0.000 χ^2/NDF : 6979060.1/35

Left In: 0.003+/-0.000 χ^2/NDF :147778.8/22

Left: 0.003+/-0.000 χ^2/NDF : 354733.7/47

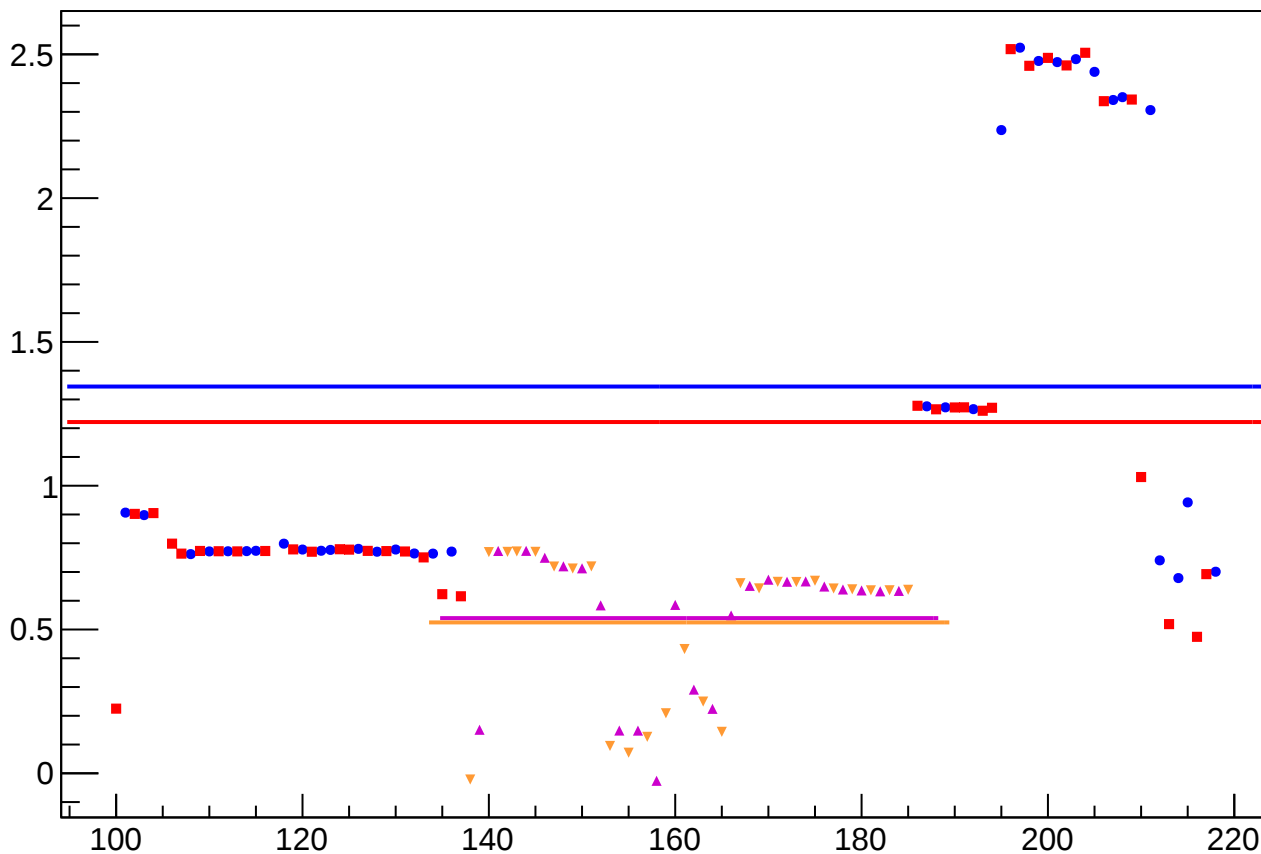
Right: 0.005+/-0.000 χ^2/NDF : 15591967.4/68

In: 0.003+/-0.000 χ^2/NDF :12157208.0/55

Out: 0.003+/-0.000 χ^2/NDF :10674454.8/60

All: 0.003+/-0.000 χ^2/NDF : 22832171.1/116

yield_bpm0l09X_mean vs Slug, Sign Corrected



Right In: 1.345+/-0.000

χ^2/NDF : 60520474862.6/32

Left: 0.532+/-0.000

χ^2/NDF : 17500739852.2/47

Left Out: 0.525+/-0.000

χ^2/NDF : 9623503169.9/24

Right: 1.281+/-0.000

χ^2/NDF : 118262720726.0/68

Right Out: 1.221+/-0.000

χ^2/NDF : 56900386971.7/35

In: 0.878+/-0.000

χ^2/NDF : 108197061570.9/55

Out: 0.825+/-0.000

χ^2/NDF : 98428058444.7/60

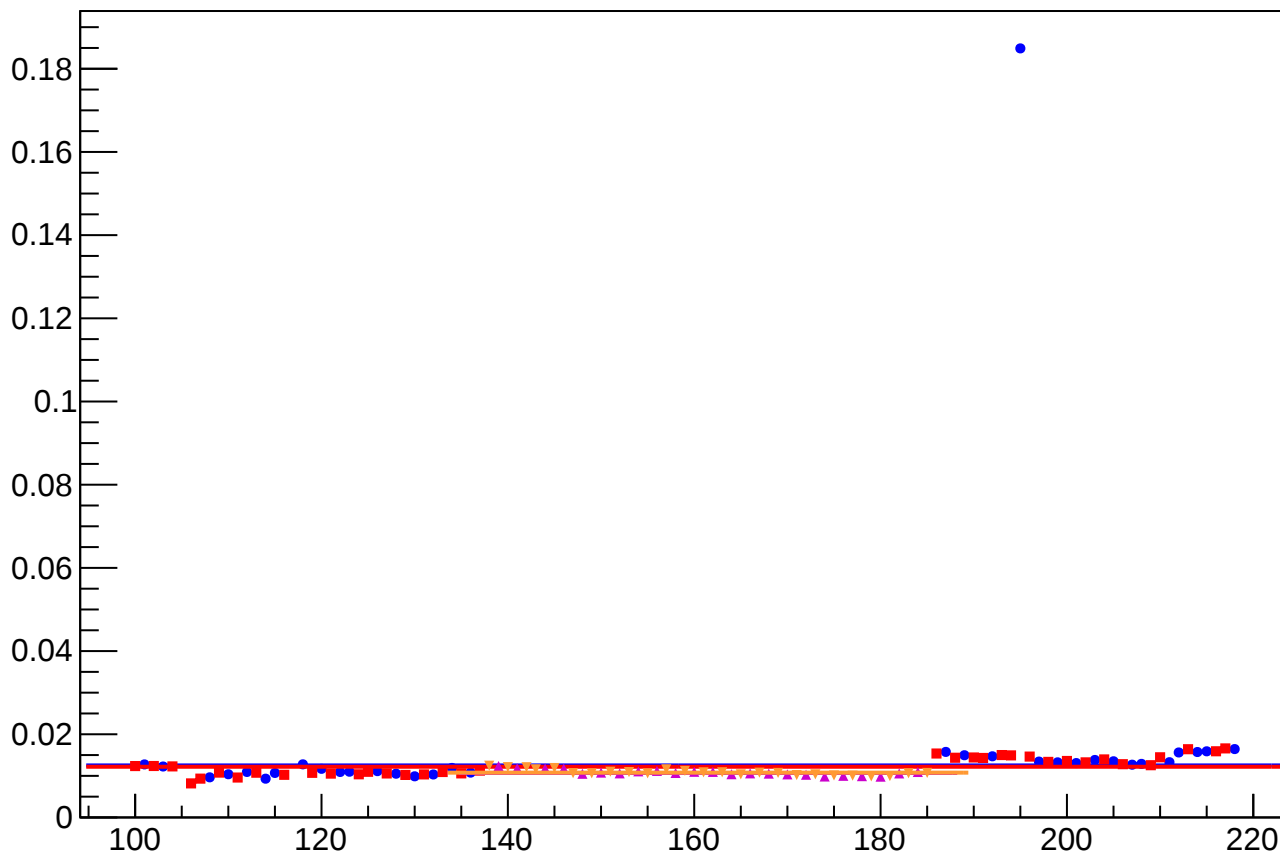
Left In: 0.540+/-0.000

χ^2/NDF : 7860539135.5/22

All: 0.851+/-0.000

χ^2/NDF : 206996862071.4

yield_bpm0l09X_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 2207147.4/32

Left Out: 0.011+/-0.000 χ^2/NDF :131630.9/24

Right Out: 0.012+/-0.000 χ^2/NDF : 1054459.4/35

Left In: 0.011+/-0.000 χ^2/NDF :119273.2/22

Left: 0.011+/-0.000 χ^2/NDF : 251802.6/47

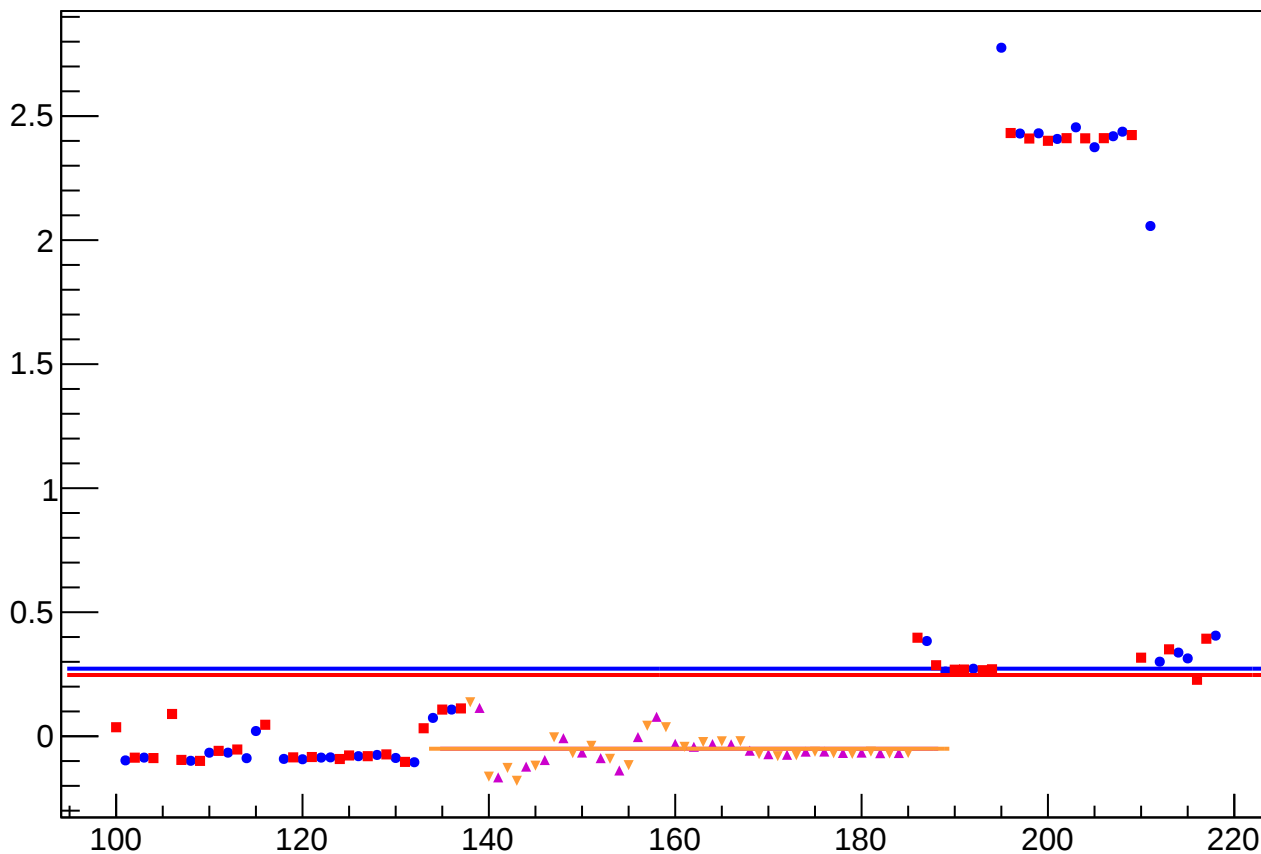
Right: 0.012+/-0.000 χ^2/NDF : 3272825.5/68

In: 0.011+/-0.000 χ^2/NDF :2732013.4/55

Out: 0.011+/-0.000 χ^2/NDF :1451511.6/60

All: 0.011+/-0.000 χ^2/NDF : 4184971.0/116

yield_bpm0l09Y_mean vs Slug, Sign Corrected



Left: -0.050 +/- 0.000 χ^2/NDF : 13400329490.2/47

Right: 0.259 +/- 0.000 χ^2/NDF : 358324242924.6/68

In: 0.029 +/- 0.000 χ^2/NDF : 248766432951.0/55

Out: 0.022 +/- 0.000 χ^2/NDF : 210018339506.7/60

Right In: 0.272 +/- 0.000 χ^2/NDF : 196896371474.2/32

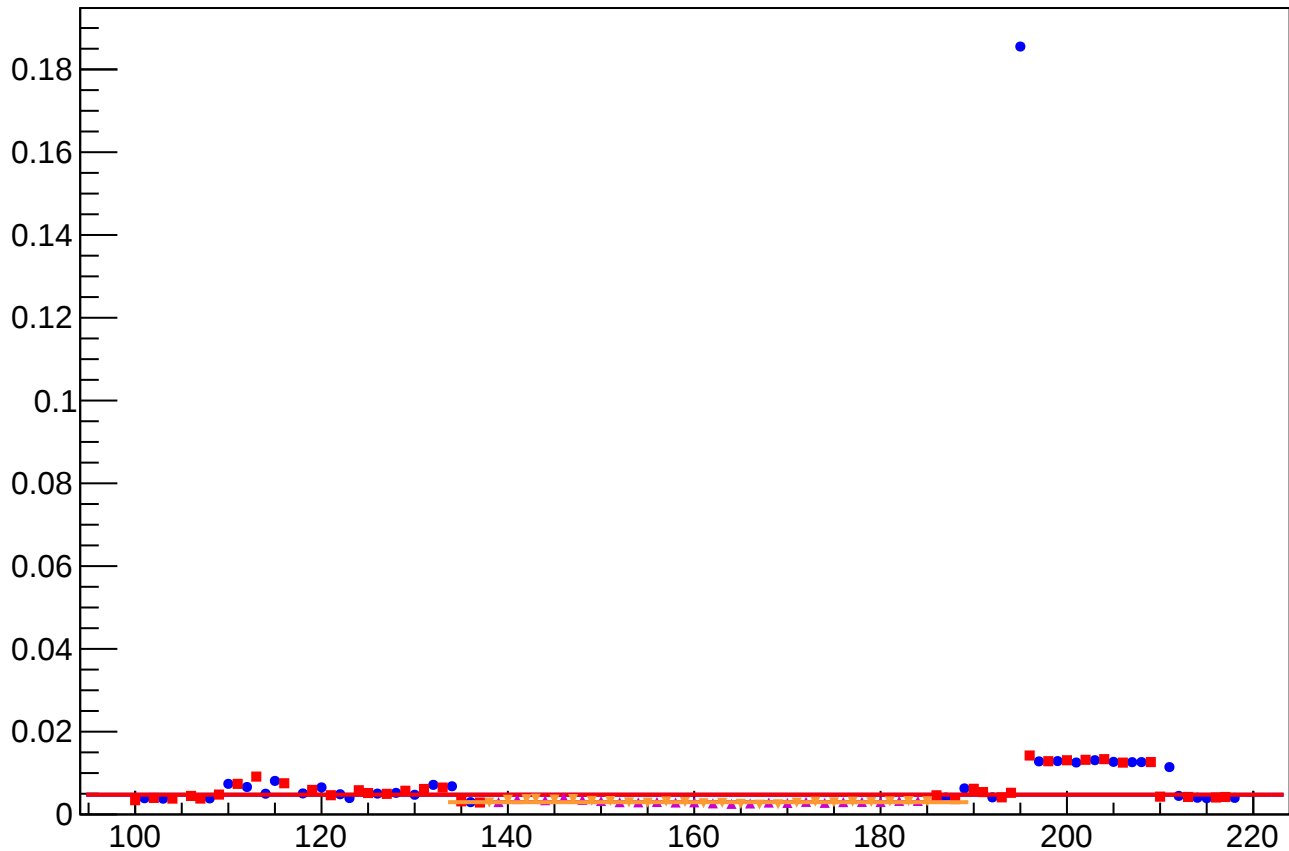
Left Out: -0.050 +/- 0.000 χ^2/NDF : 7271496478.6/24

Right Out: 0.247 +/- 0.000 χ^2/NDF : 161232765686.9/35

Left In: -0.051 +/- 0.000 χ^2/NDF : 6128769990.8/22

All: 0.025 +/- 0.000 χ^2/NDF : 458850448625.4

yield_bpm0l09Y_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 7511553.8/32

Left Out: 0.003+/-0.000 χ^2/NDF : 499039.1/24

Right Out: 0.005+/-0.000 χ^2/NDF : 5224730.5/35

Left In: 0.003+/-0.000 χ^2/NDF : 329068.1/22

Left: 0.003+/-0.000 χ^2/NDF : 831077.6/47

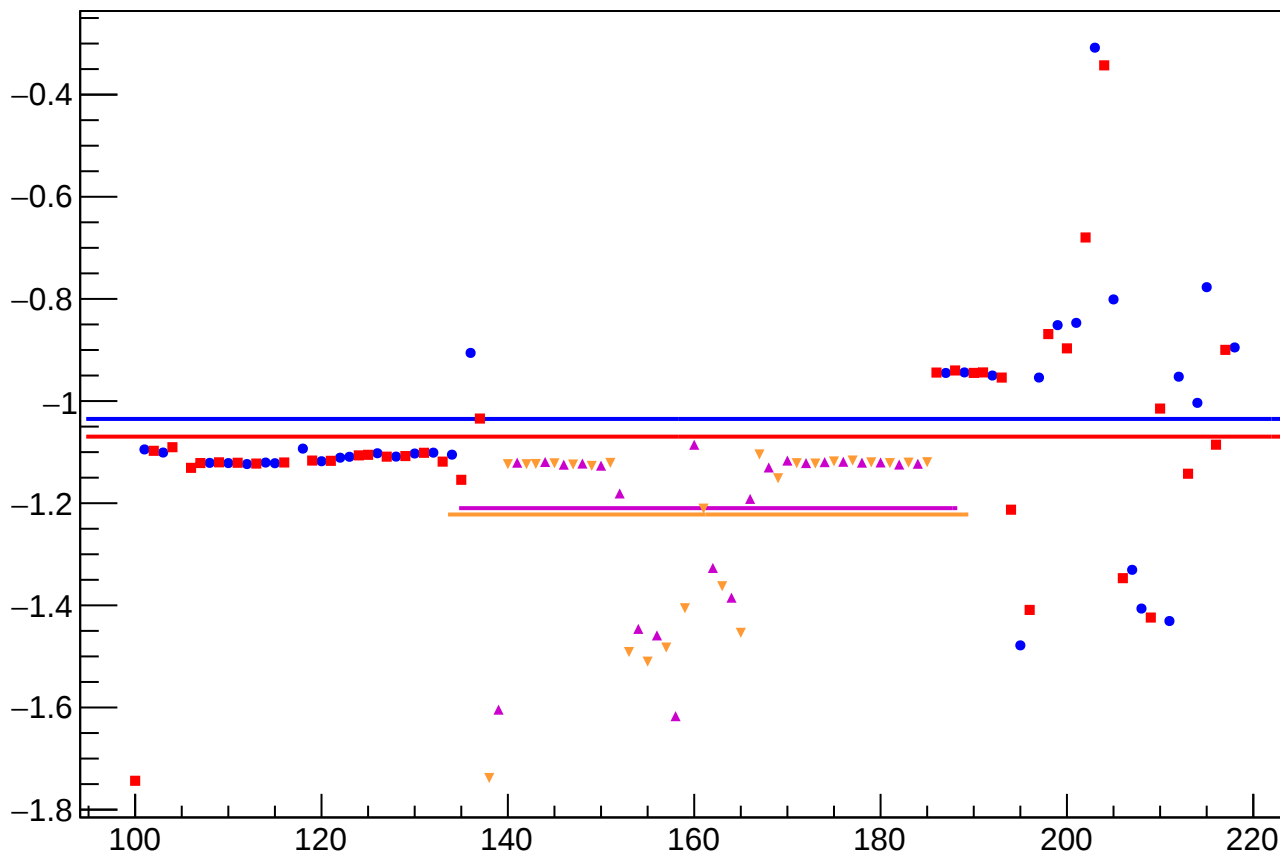
Right: 0.005+/-0.000 χ^2/NDF : 12736417.7/68

In: 0.003+/-0.000 χ^2/NDF : 10552643.7/55

Out: 0.003+/-0.000 χ^2/NDF : 8814543.4/60

All: 0.003+/-0.000 χ^2/NDF : 19370022.8/116

yield_bpm0l10X_mean vs Slug, Sign Corrected



Right In: -1.035+/-0.000

χ^2/NDF : 5944587734.1/32

Left: -1.216+/-0.000

χ^2/NDF : 9796254294.5/47

Left Out: -1.222+/-0.000

χ^2/NDF : 5279548861.3/24

Right: -1.053+/-0.000

χ^2/NDF : 10775738915.5/68

Right Out: -1.070+/-0.000

χ^2/NDF : 4764085470.6/35

In: -1.145+/-0.000

χ^2/NDF : 12503093141.5/55

Out: -1.164+/-0.000

χ^2/NDF : 11721017372.2/60

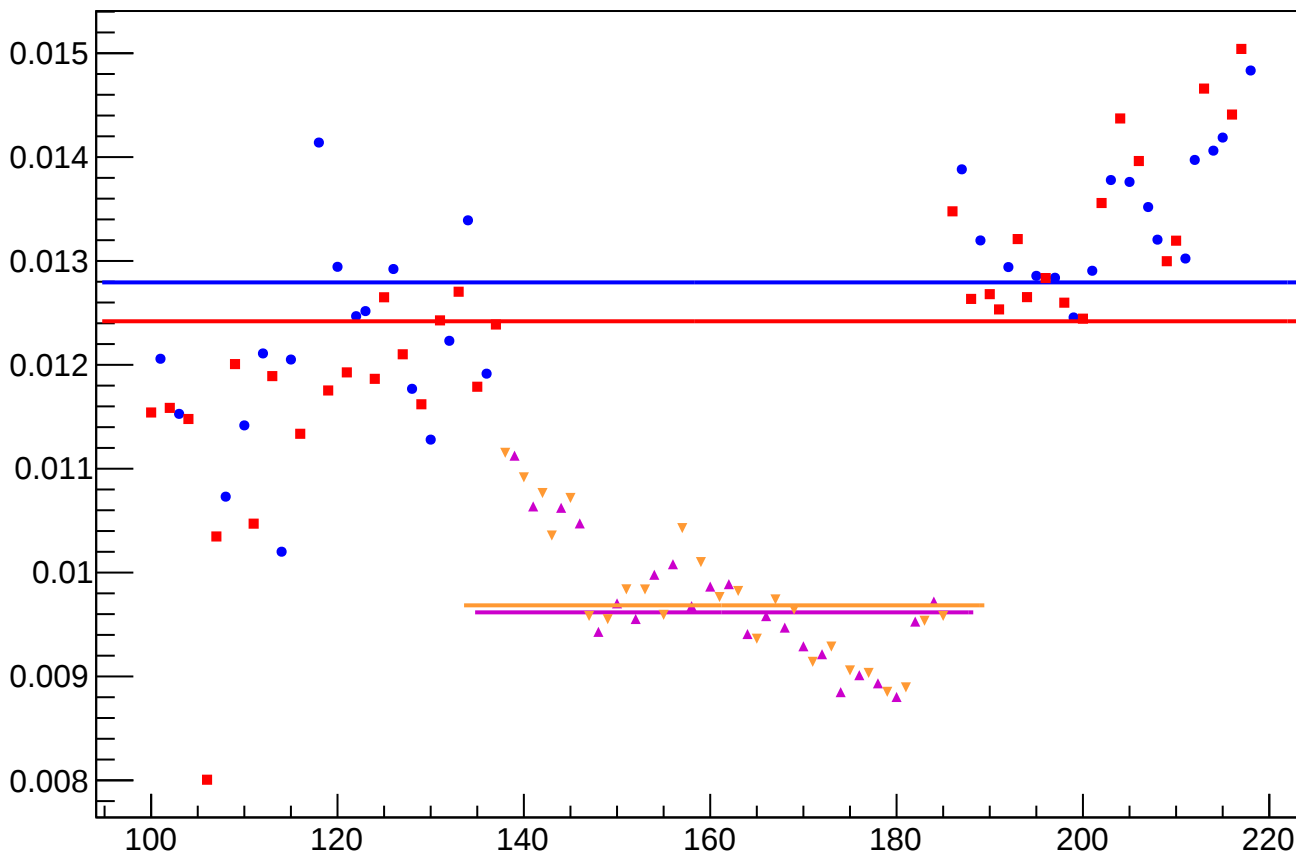
Left In: -1.210+/-0.000

χ^2/NDF : 4502367902.8/22

All: -1.155+/-0.000

χ^2/NDF : 24279428287.8/

yield_bpm0l10X_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 208108.2/32

Left Out: 0.010+/-0.000 χ^2/NDF :134863.6/24

Right Out: 0.012+/-0.000 χ^2/NDF : 444574.9/35

Left In: 0.010+/-0.000 χ^2/NDF :119823.1/22

Left: 0.010+/-0.000 χ^2/NDF : 255532.7/47

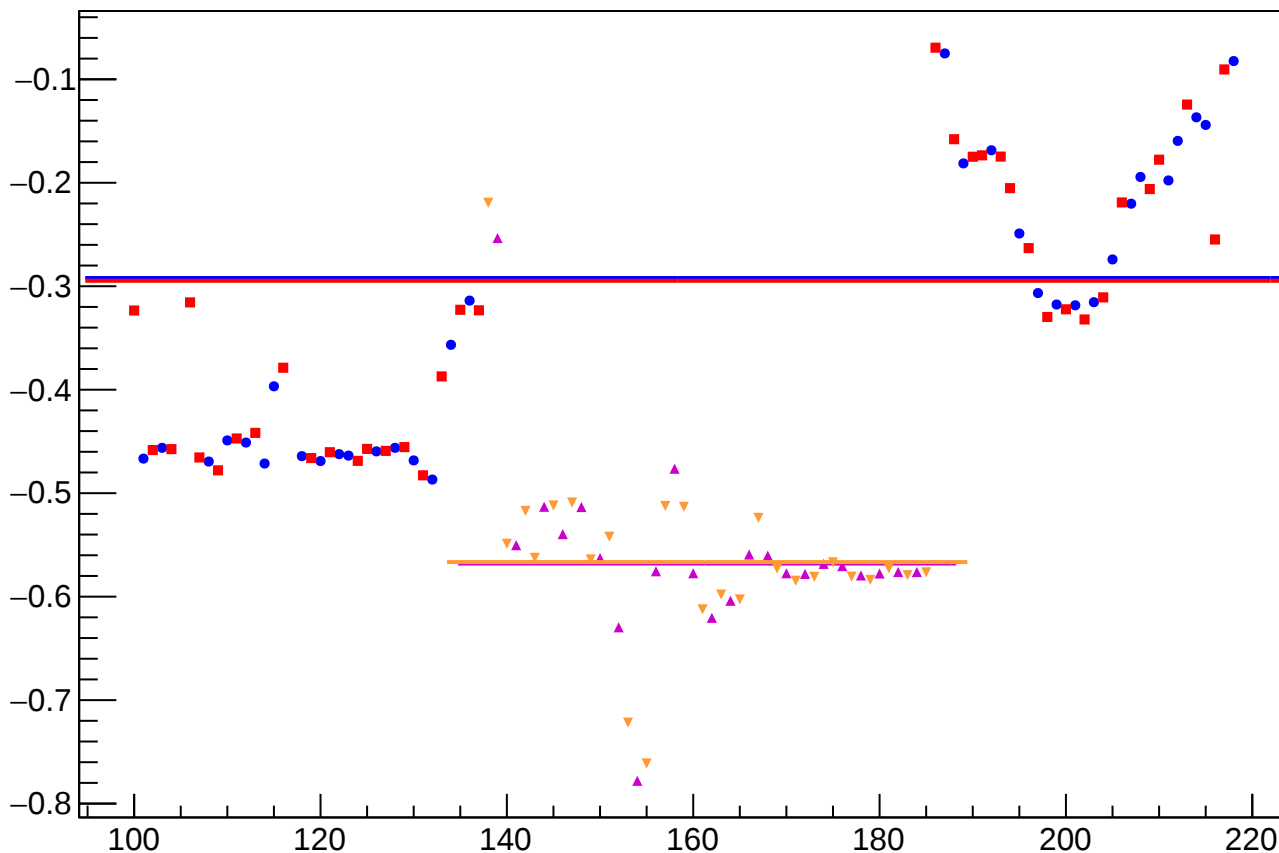
Right: 0.013+/-0.000 χ^2/NDF : 668334.0/68

In: 0.011+/-0.000 χ^2/NDF :1687989.0/55

Out: 0.011+/-0.000 χ^2/NDF :1658794.8/60

All: 0.011+/-0.000 χ^2/NDF : 3348307.7/116

yield_bpm0l10Y_mean vs Slug, Sign Corrected



Right In: -0.292+/-0.000

χ^2/NDF : 17023551396.9/32

Left: -0.567+/-0.000

χ^2/NDF : 23829000396.4/47

Left Out: -0.567+/-0.000

χ^2/NDF : 13368458519.3/24

Right: -0.293+/-0.000

χ^2/NDF : 33653141408.1/68

Right Out: -0.295+/-0.000

χ^2/NDF : 16625182172.5/35

In: -0.442+/-0.000

χ^2/NDF : 78993332718.7/55

Out: -0.450+/-0.000

χ^2/NDF : 80557052462.5/60

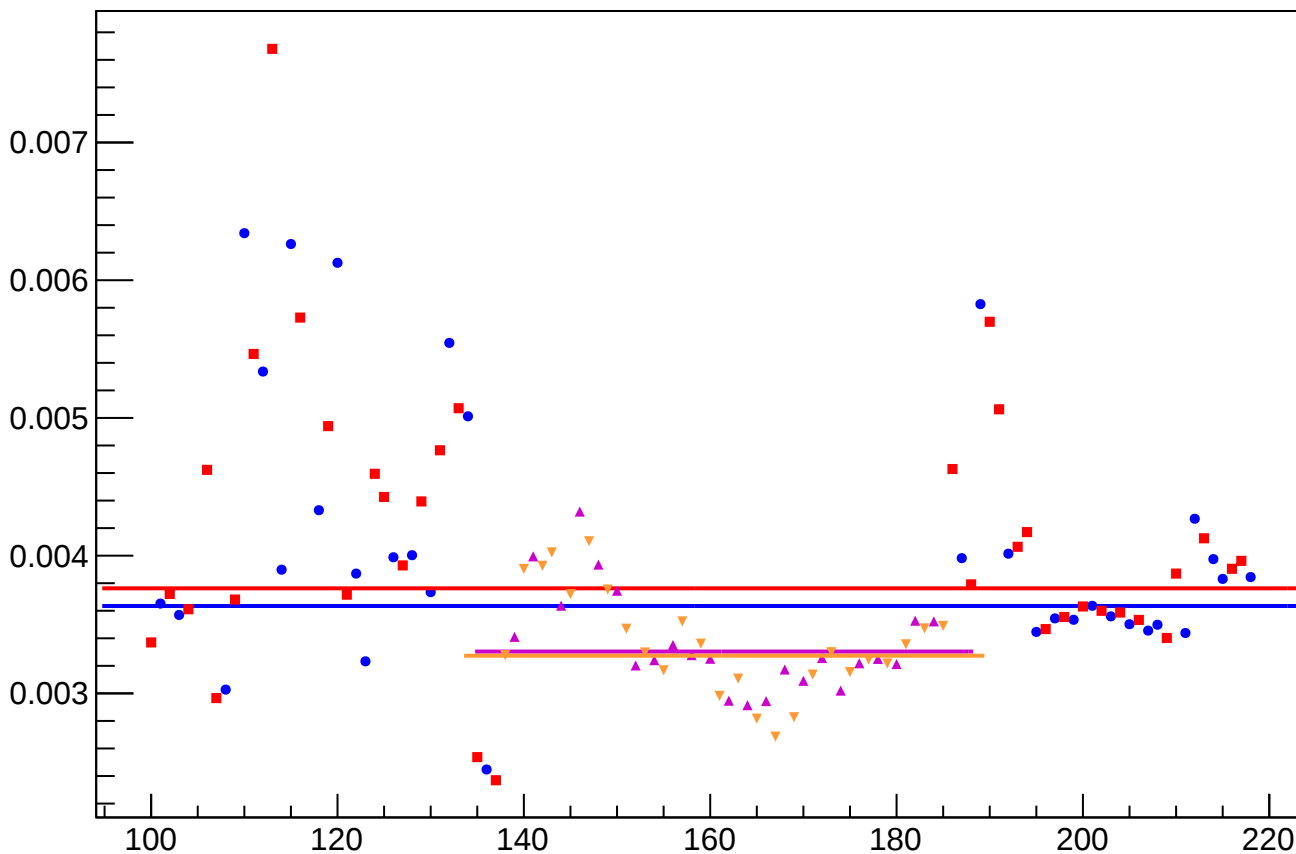
Left In: -0.568+/-0.000

χ^2/NDF : 10458990019.9/22

All: -0.446+/-0.000

χ^2/NDF : 159654851883.3

yield_bpm0l10Y_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 1057215.9/32

Left Out: 0.003+/-0.000 χ^2/NDF : 394865.4/24

Right Out: 0.004+/-0.000 χ^2/NDF : 1105194.3/35

Left In: 0.003+/-0.000 χ^2/NDF : 286064.1/22

Left: 0.003+/-0.000 χ^2/NDF : 682340.4/47

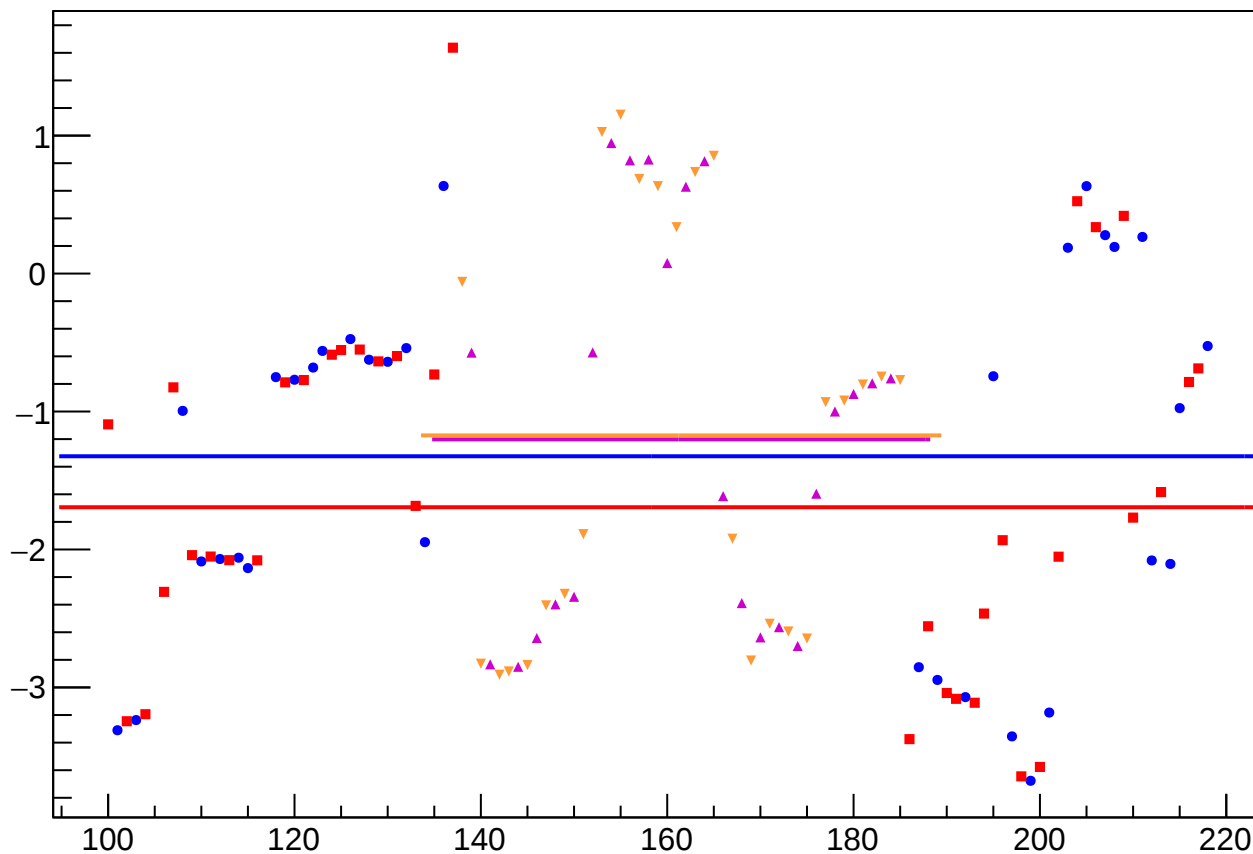
Right: 0.004+/-0.000 χ^2/NDF : 2182490.4/68

In: 0.003+/-0.000 χ^2/NDF : 1491274.0/55

Out: 0.003+/-0.000 χ^2/NDF : 1827711.4/60

All: 0.003+/-0.000 χ^2/NDF : 3321061.8/116

yield_bpm0r03X_mean vs Slug, Sign Corrected



Right In: -1.324+/-0.000

χ^2/NDF : 6311616573.5/32

Left: -1.187+/-0.000

χ^2/NDF : 12490828303.3/47

Left Out: -1.173+/-0.000

χ^2/NDF : 6882684653.2/24

Right: -1.511+/-0.000

χ^2/NDF : 11932342637.8/68

Right Out: -1.694+/-0.000

χ^2/NDF : 5404429778.7/35

In: -1.263+/-0.000

χ^2/NDF : 11942156449.0/55

Out: -1.423+/-0.000

χ^2/NDF : 12737976075.6/60

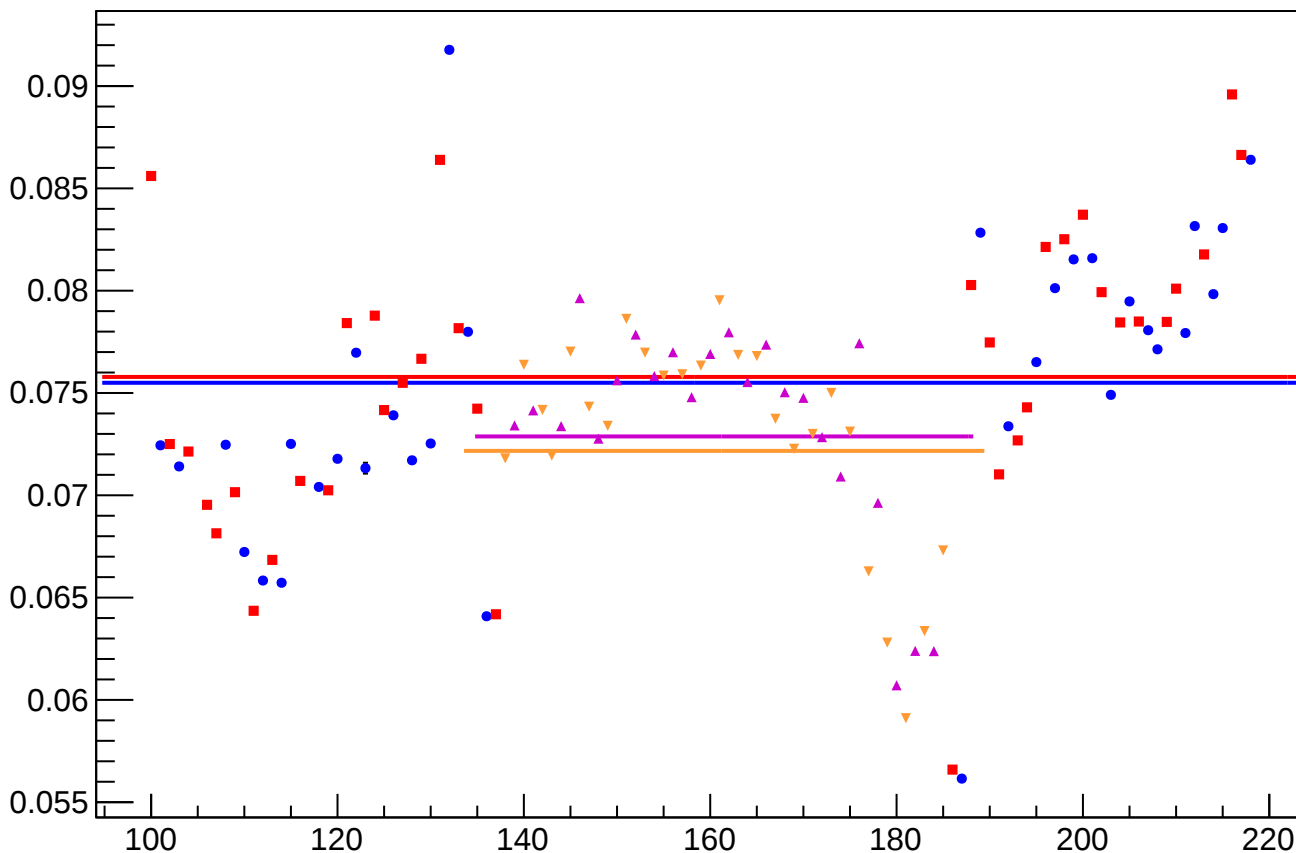
Left In: -1.202+/-0.000

χ^2/NDF : 5606782515.9/22

All: -1.345+/-0.000

χ^2/NDF : 24764103630.8/100

yield_bpm0r03X_rms vs Slug, Sign Corrected



Right In: 0.075+/-0.000 χ^2/NDF : 258198.2/32

Left Out: 0.072+/-0.000 χ^2/NDF :222263.8/24

Right Out: 0.076+/-0.000 χ^2/NDF : 310679.2/35

Left In: 0.073+/-0.000 χ^2/NDF :183503.0/22

Left: 0.073+/-0.000 χ^2/NDF : 407423.5/47

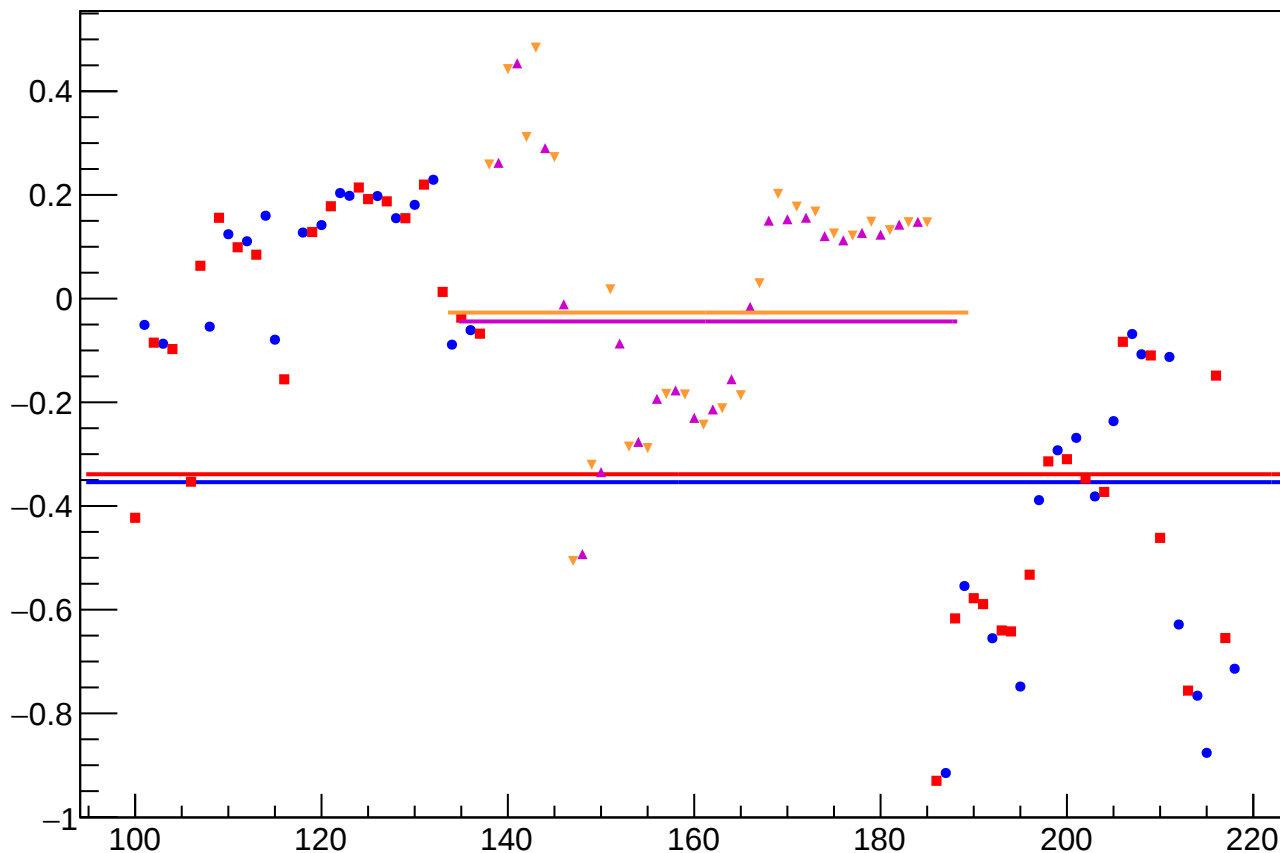
Right: 0.076+/-0.000 χ^2/NDF : 569135.4/68

In: 0.074+/-0.000 χ^2/NDF :463455.9/55

Out: 0.074+/-0.000 χ^2/NDF :576379.9/60

All: 0.074+/-0.000 χ^2/NDF : 1040305.7/116

yield_bpm0r03Y_mean vs Slug, Sign Corrected



Right In: -0.354+/-0.000

χ^2/NDF : 24937338746.9/32

Left: -0.035+/-0.000

χ^2/NDF : 36148383394.4/47

Left Out: -0.027+/-0.000

χ^2/NDF : 20376761328.6/24

Right: -0.347+/-0.000

χ^2/NDF : 42169827366.2/68

Right Out: -0.339+/-0.000

χ^2/NDF : 17201589622.6/35

In: -0.182+/-0.000

χ^2/NDF : 55397545402.2/55

Out: -0.152+/-0.000

χ^2/NDF : 52342381161.1/60

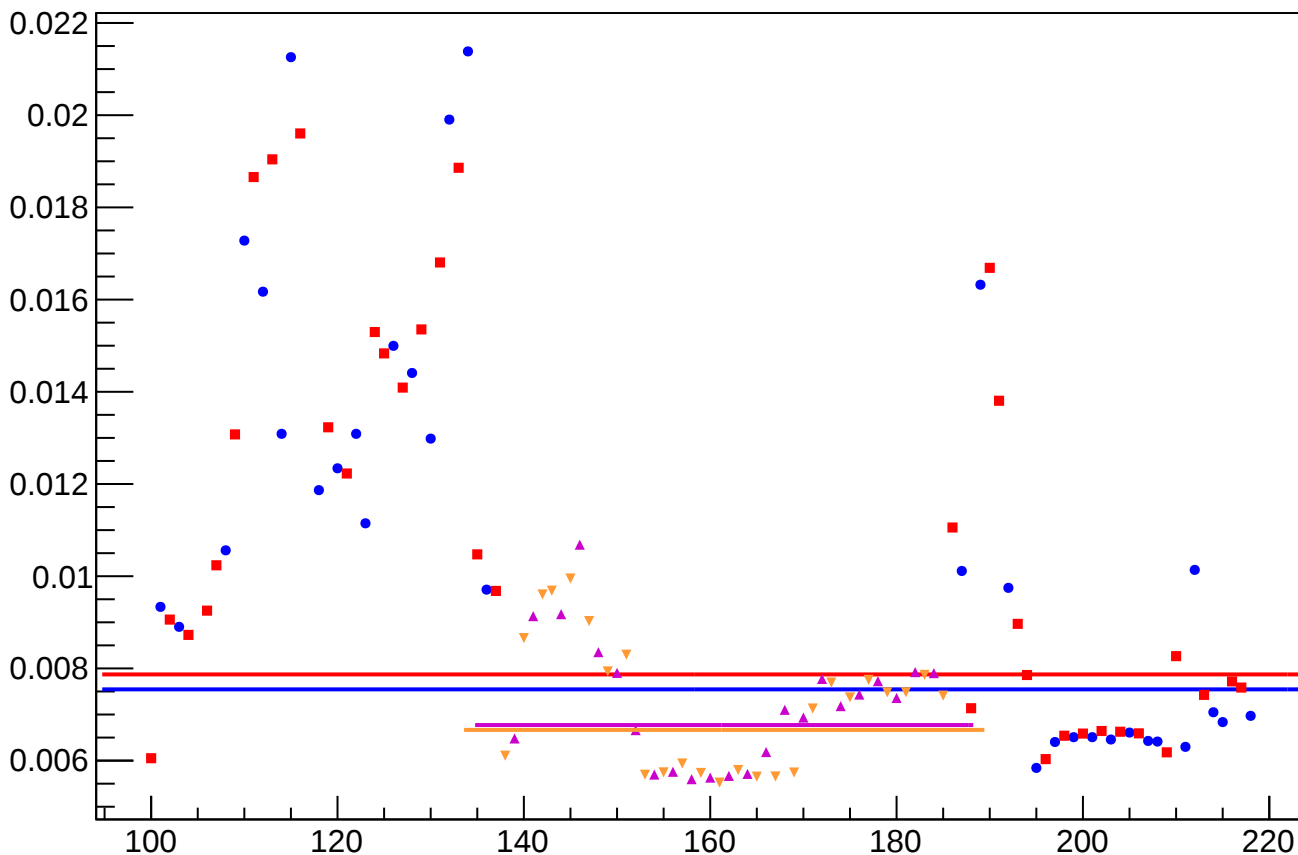
Left In: -0.044+/-0.000

χ^2/NDF : 15718556282.1/22

All: -0.167+/-0.000

χ^2/NDF : 108016210681.7

yield_bpm0r03Y_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000

χ^2/NDF : 2974844.1/32

Left Out: 0.007+/-0.000

χ^2/NDF :1143768.6/24

Right Out: 0.008+/-0.000

χ^2/NDF : 3082669.2/35

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 : 6085324.5/68

In: 0.007+/-0.000

χ^2/NDF :4092631.9/55

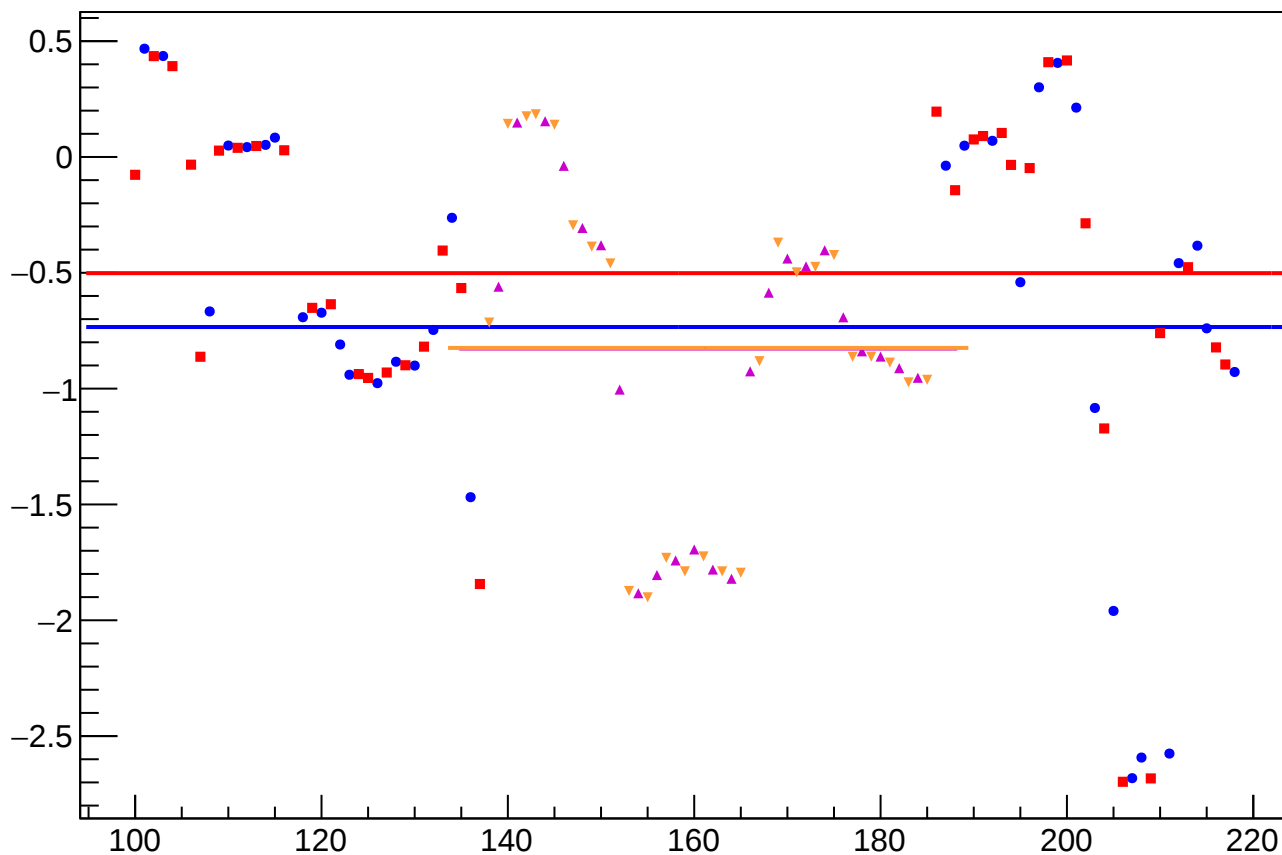
Out: 0.007+/-0.000

χ^2/NDF :4666303.2/60

All: 0.007+/-0.000

χ^2/NDF : 8759656.1/116

yield_bpm0r05X_mean vs Slug, Sign Corrected



Right In: -0.734 ± 0.000 $\chi^2/\text{NDF}: 1769838544.4/32$

Left Out: -0.824 ± 0.000 $\chi^2/\text{NDF}: 1103610806.5/24$

Right Out: -0.501 ± 0.000 $\chi^2/\text{NDF}: 1493354636.8/35$

Left In: -0.827 ± 0.000 $\chi^2/\text{NDF}: 921651117.3/22$

Left: -0.826 ± 0.000 $\chi^2/\text{NDF}: 2025270716.0/47$

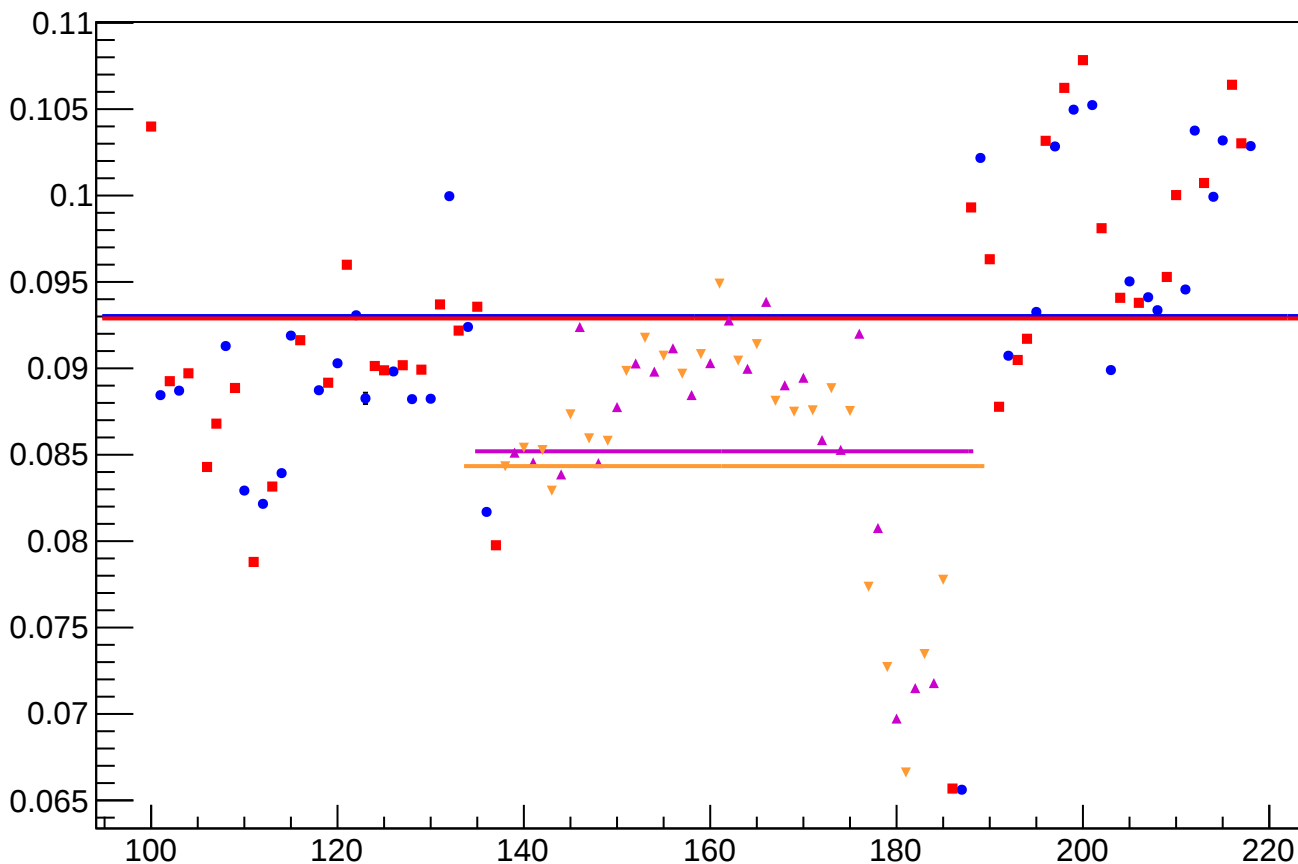
Right: -0.616 ± 0.000 $\chi^2/\text{NDF}: 3320425490.6/68$

In: -0.783 ± 0.000 $\chi^2/\text{NDF}: 2701040342.7/55$

Out: -0.677 ± 0.000 $\chi^2/\text{NDF}: 2718541530.2/60$

All: -0.729 ± 0.000 $\chi^2/\text{NDF}: 5445518993.6/1$

yield_bpm0r05X_rms vs Slug, Sign Corrected



Right In: 0.093 $\pm$ 0.000 χ^2 /NDF: 252861.7/32

Left Out: 0.084 $\pm$ 0.000 χ^2 /NDF:288312.6/24

Right Out: 0.093 $\pm$ 0.000 χ^2 /NDF: 343490.7/35

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

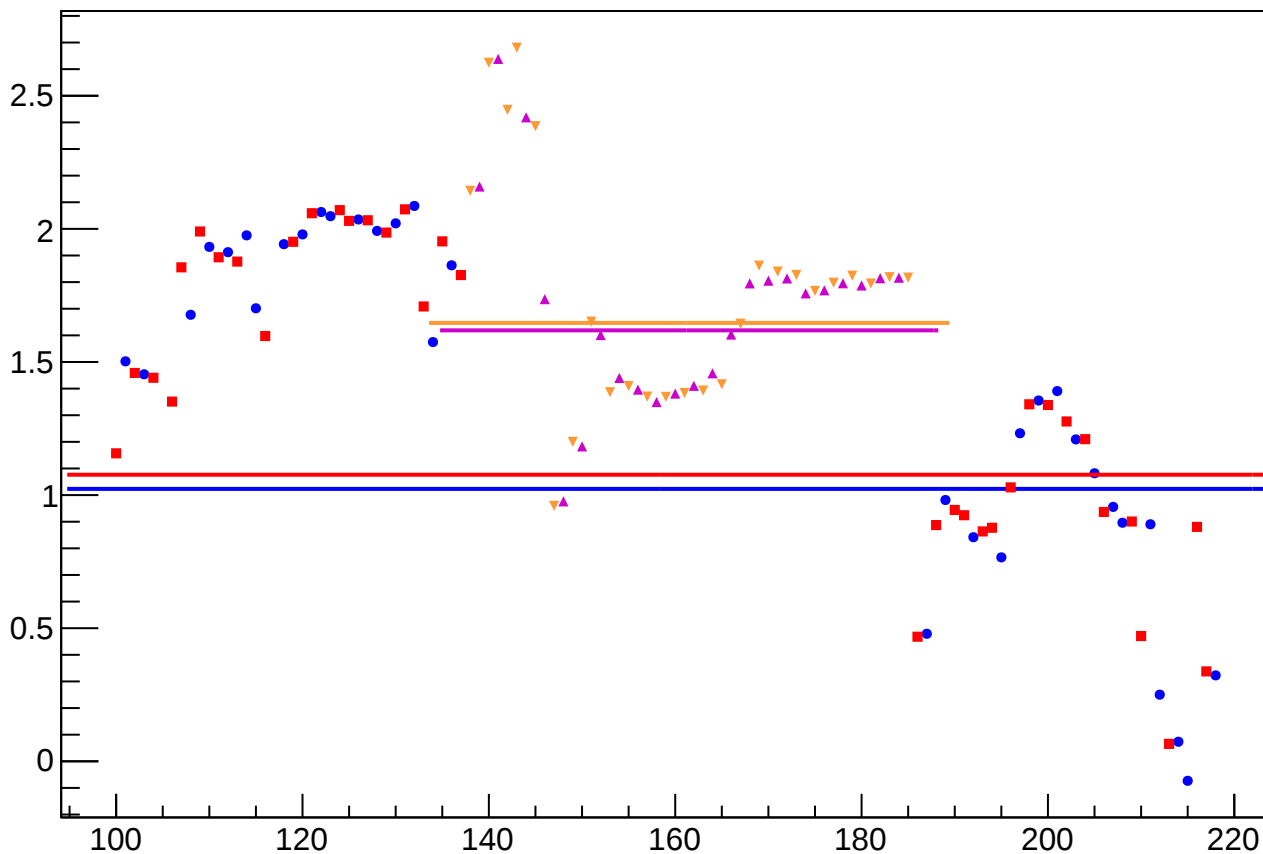
Right: 0.093 $\pm$ 0.000 χ^2 /NDF: 596392.8/68

In: 0.089 $\pm$ 0.000 χ^2 /NDF:626746.6/55

Out: 0.088 $\pm$ 0.000 χ^2 /NDF:802223.3/60

All: 0.089 $\pm$ 0.000 χ^2 /NDF: 1430760.4/116

yield_bpm0r05Y_mean vs Slug, Sign Corrected



Right In: 1.023+/-0.000 χ^2/NDF : 40978318543.6/32

Left Out: 1.647+/-0.000 χ^2/NDF : 26535241545.7/24

Right Out: 1.077+/-0.000 χ^2/NDF : 28106814478.0/35

Left In: 1.619+/-0.000 χ^2/NDF : 20618198188.1/22

Left: 1.633+/-0.000 χ^2/NDF : 47231460201.8/47

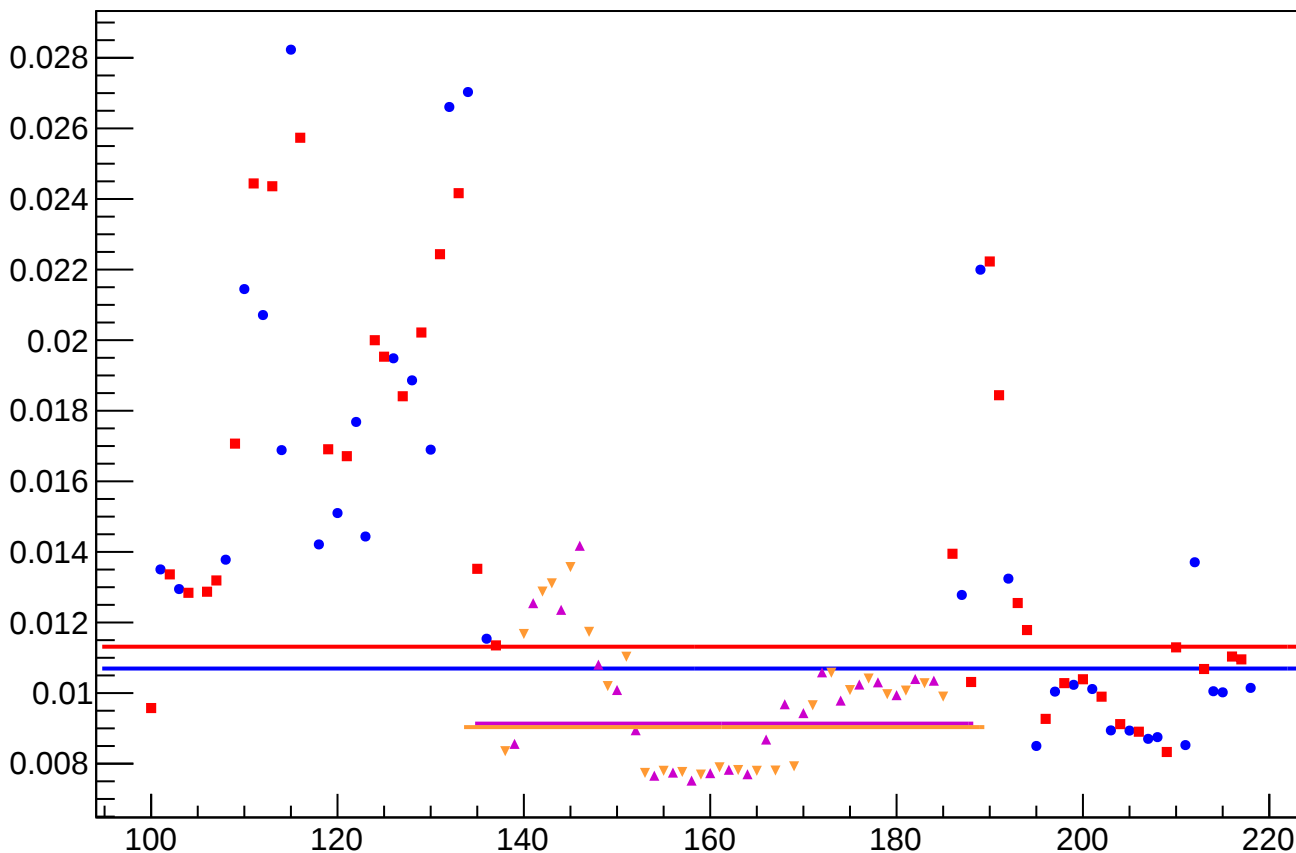
Right: 1.048+/-0.000 χ^2/NDF : 69272292727.6/68

In: 1.368+/-0.000 χ^2/NDF : 90250565751.4/55

Out: 1.432+/-0.000 χ^2/NDF : 80094298113.4/60

All: 1.400+/-0.000 χ^2/NDF : 171043614281.0

yield_bpm0r05Y_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 2432042.2/32

Left Out: 0.009+/-0.000 χ^2/NDF :1042871.8/24

Right Out: 0.011+/-0.000 χ^2/NDF : 2532623.0/35

Left In: 0.009+/-0.000 χ^2/NDF :878356.2/22

Left: 0.009+/-0.000 χ^2/NDF : 1923188.0/47

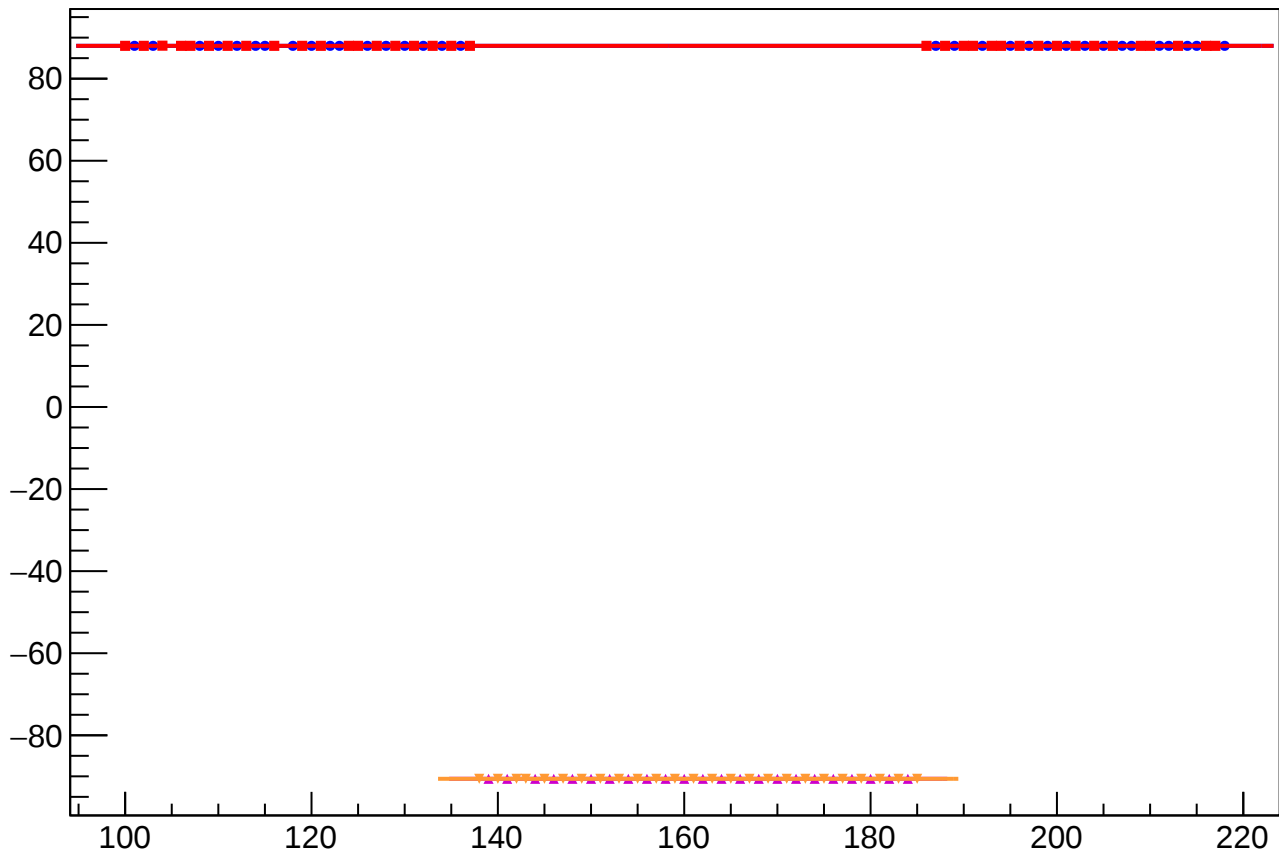
Right: 0.011+/-0.000 χ^2/NDF : 5015289.0/68

In: 0.010+/-0.000 χ^2/NDF :3704026.3/55

Out: 0.010+/-0.000 χ^2/NDF :4388202.6/60

All: 0.010+/-0.000 χ^2/NDF : 8095490.6/116

epics_VWienAngles_mean vs Slug, Sign Corrected



Right In: 88.001+/-0.000 χ^2/NDF : 6632389.1/32

Left Out: -90.599+/-0.000 χ^2/NDF : 5785821.4/24

Right Out: 88.002+/-0.000 χ^2/NDF : 81224625914835205858267234304.0/35

Left In: -90.599+/-0.000 χ^2/NDF : 7134230.8/22

Left: -90.599+/-0.000 χ^2/NDF : 11903242.1/47

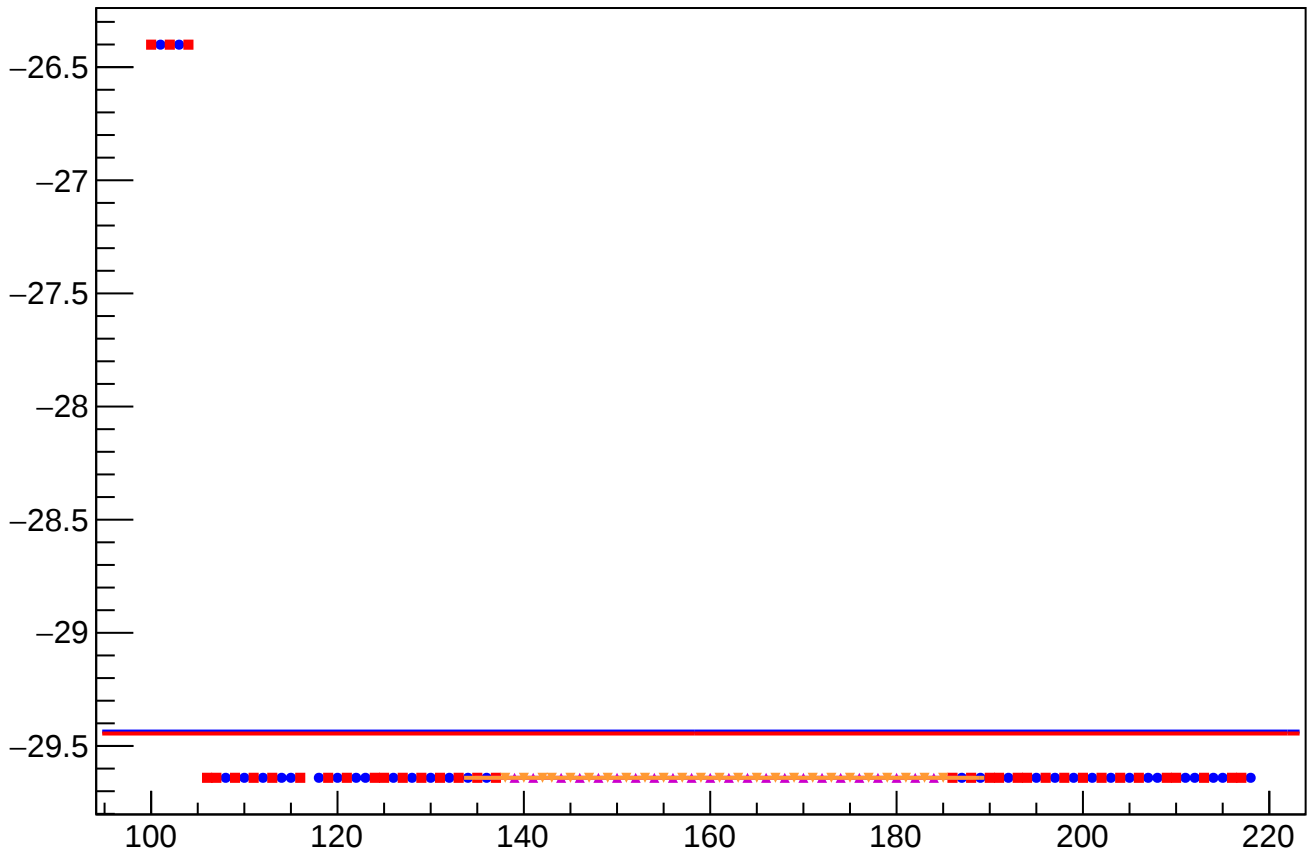
Right: 88.001+/-0.000 χ^2/NDF : 8231762990713196

In: 0.527+/-0.000 χ^2/NDF : 2923022234943002818

Out: -0.925+/-0.000 χ^2/NDF : 30510232132142295

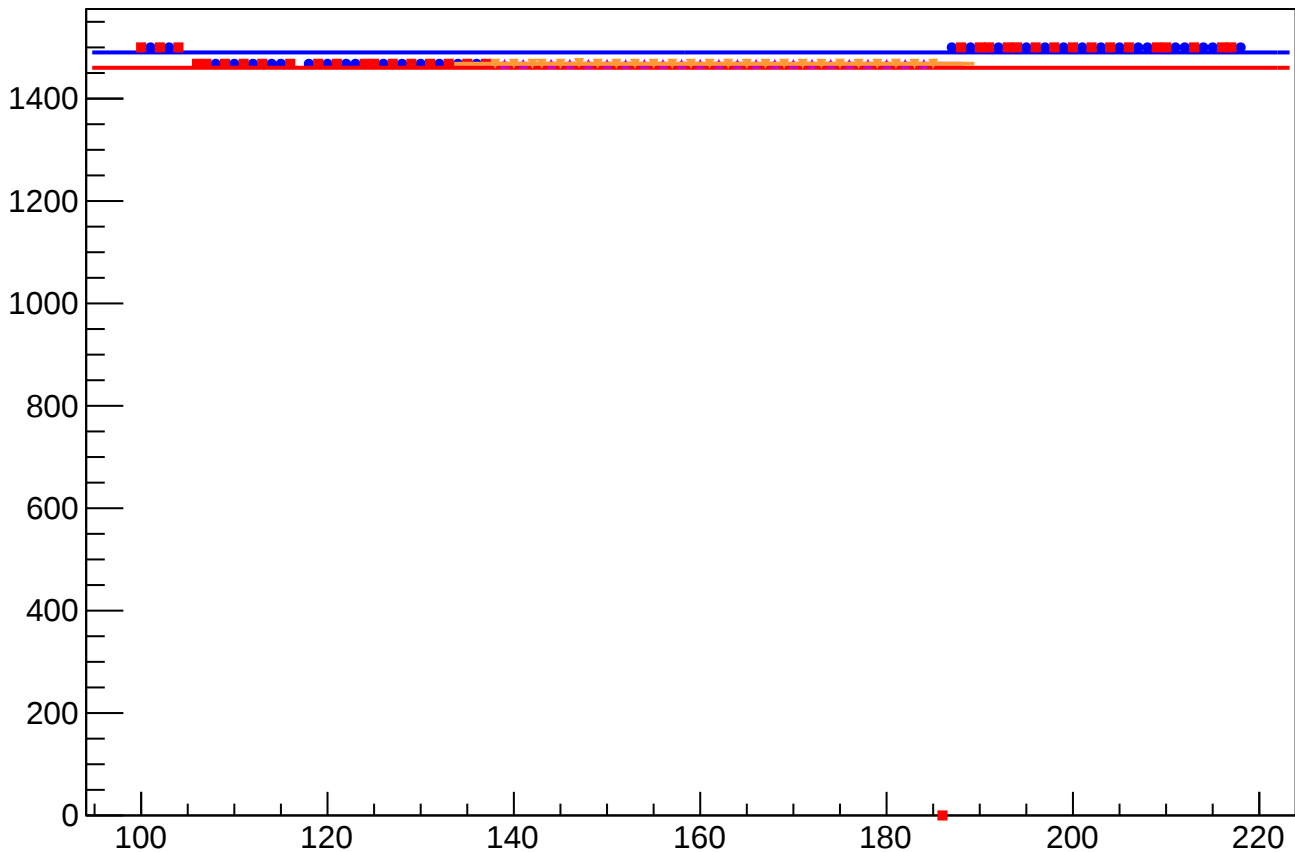
All: -0.215+/-0.000 χ^2/NDF : 5974440448117

epics_HWienAngles_mean vs Slug, Sign Corrected



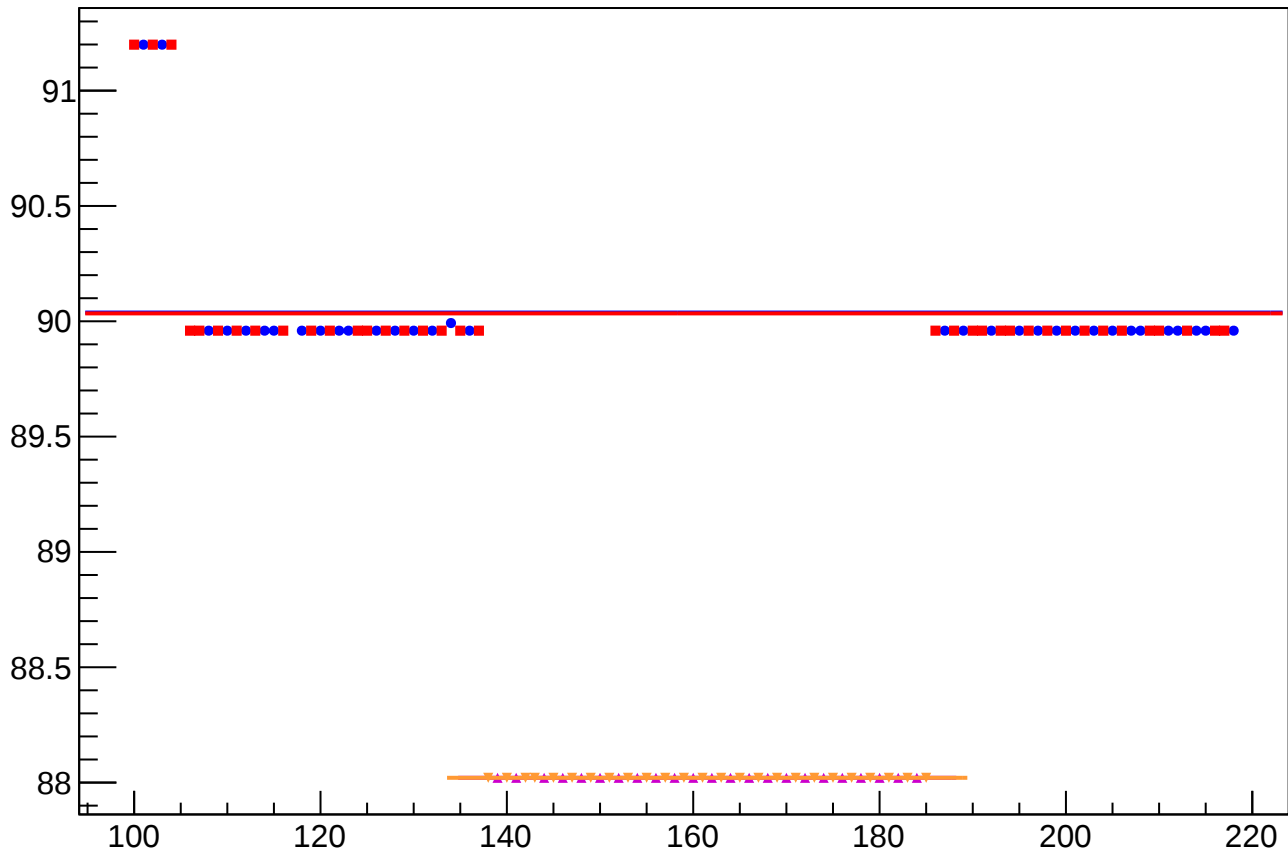
Right In: -29.436+/-0.000 χ^2/NDF : 1160593559807579693386674196185088.0/32
 Left Out: -29.641+/-0.000 χ^2/NDF : 530354.3/24
 Right Out: -29.445+/-0.000 χ^2/NDF : 1144189218115548418686787784802304.0/35
 Left In: -29.641+/-0.000 χ^2/NDF : 382603.8/22
 In: -29.536+/-0.000 χ^2/NDF : 11988562648486332
 Out: -29.542+/-0.000 χ^2/NDF : 1180801656037609
 All: -29.540+/-0.000 χ^2/NDF : 237972592360

epics_psub_pl_pos_mean vs Slug, Sign Corrected



Right In: 1490.194+/-0.000 χ^2/NDF : 407610350175248982661682126838038528.0/32
 Left Out: 1468.048+/-0.000 χ^2/NDF : 127949199501977668488138456039424.0/24
 Right Out: 1460.261+/-0.000 χ^2/NDF : 83084550532080441763917323777926496256.0/35
 Left In: 1467.994+/-0.000 χ^2/NDF : 144497772795444989723550941184.0/22
 All: 1471.568+/-0.000 χ^2/NDF : 84433572155

epics_Phi_FGs_mean vs Slug, Sign Corrected



Right In: 90.038 $\pm$ 0.000

χ^2 /NDF: 169908093479848571479601073618944.0/32

Left Out: 88.021 $\pm$ 0.000

χ^2 /NDF: 5679798.5/24

Right Out: 90.034 $\pm$ 0.000

χ^2 /NDF: 167591196251997947707525706022912.0/35

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: 90.036 $\pm$ 0.000

χ^2 /NDF: 3375122476591528

In: 89.050 $\pm$ 0.000

χ^2 /NDF: 389857613174555741

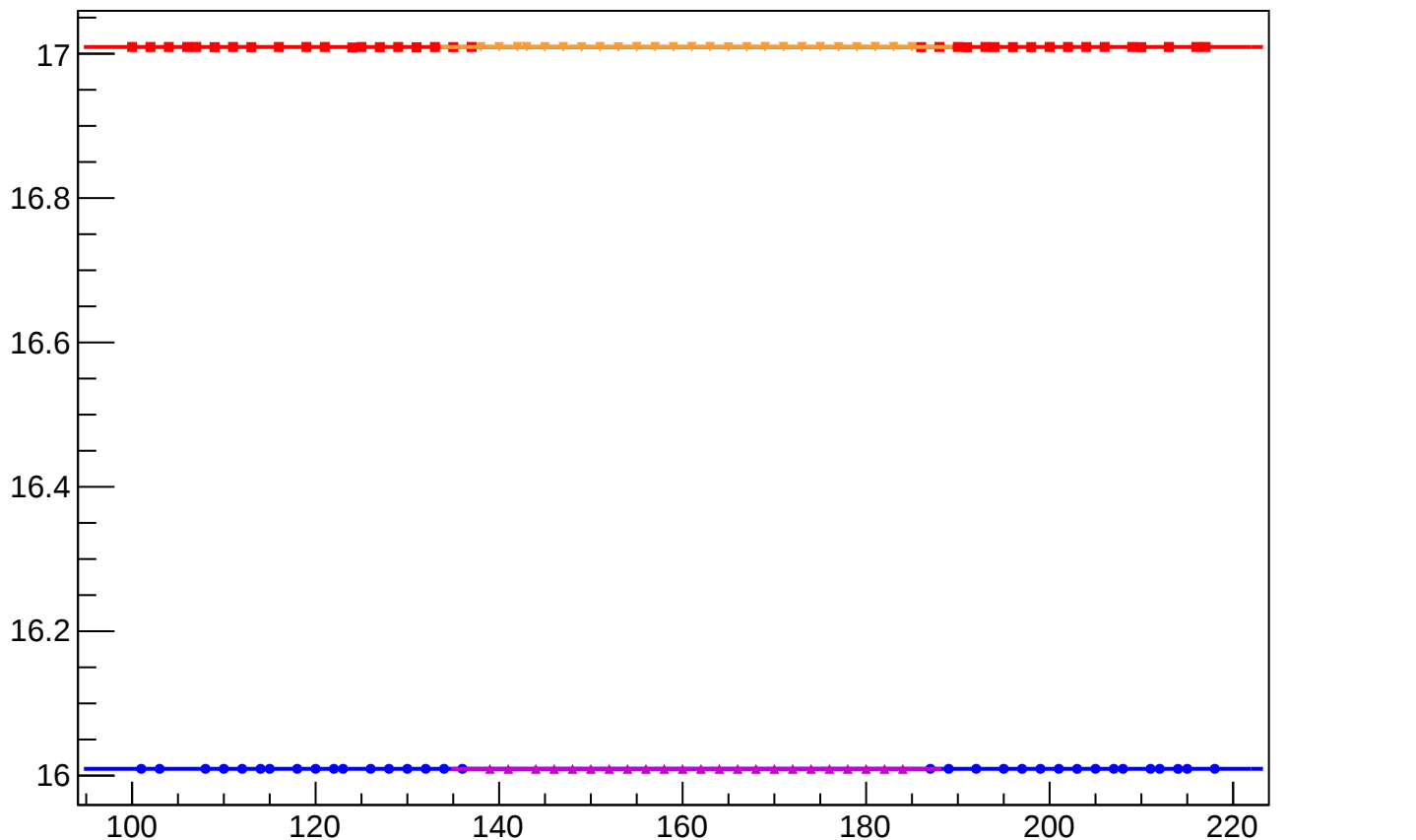
Out: 89.032 $\pm$ 0.000

χ^2 /NDF: 40452386107967935

All: 89.041 $\pm$ 0.000

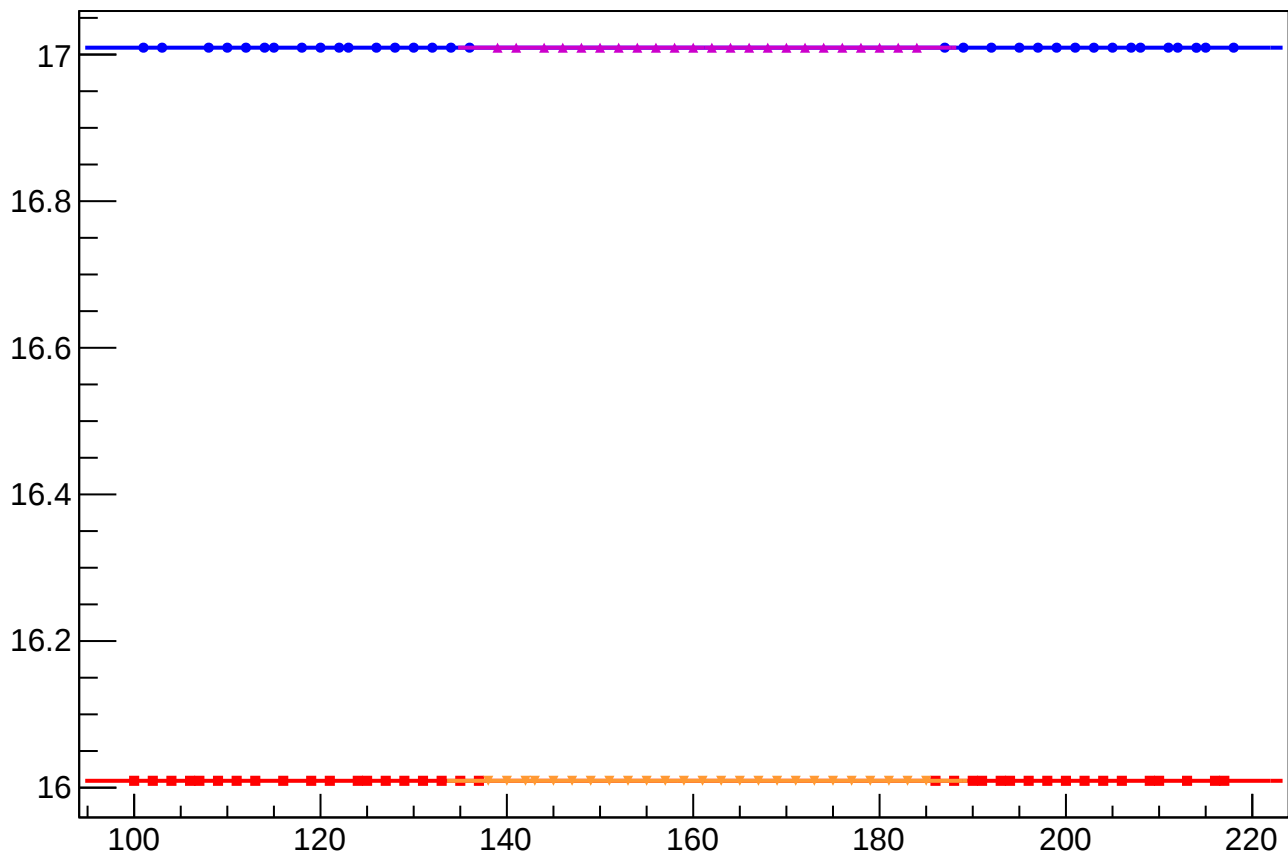
χ^2 /NDF: 794443952648

epics_IGL1I00DI24_24Ms_mean vs Slug, Sign Corrected



Right In: 16.009+/-0.000	χ^2/NDF : 848176574808054814474240.0/32	Left: 16.524+/-0.000	χ^2/NDF : 85855870772921272
Left Out: 17.009+/-0.000	χ^2/NDF : 26194929080144976634970112.0/24	Right: 16.511+/-0.000	χ^2/NDF : 9231212837275432
Right Out: 17.009+/-0.000	χ^2/NDF : 21266940513498798774812672.0/35	In: 16.009+/-0.000	χ^2/NDF : 990614984066325911
Left In: 16.009+/-0.000	χ^2/NDF : 127920993667935400624128.0/22	Out: 17.009+/-0.000	χ^2/NDF : 49062352079995020
		All: 16.518+/-0.000	χ^2/NDF : 1781970923992

epics_IGL1I00OD16_16s_mean vs Slug, Sign Corrected



Right In: 17.009+/-0.000

χ^2/NDF : 848176574944934214238208.0/32

Left: 16.491+/-0.000

χ^2/NDF : 90683349233974458

Right: 16.499+/-0.000

χ^2/NDF : 9378641445663597

Left Out: 16.009+/-0.000

χ^2/NDF : 61253.5/24

In: 17.009+/-0.000

χ^2/NDF : 978706256711824667

Right Out: 16.009+/-0.000

χ^2/NDF : 314105.5/35

Out: 16.009+/-0.000

χ^2/NDF : 574770.4/60

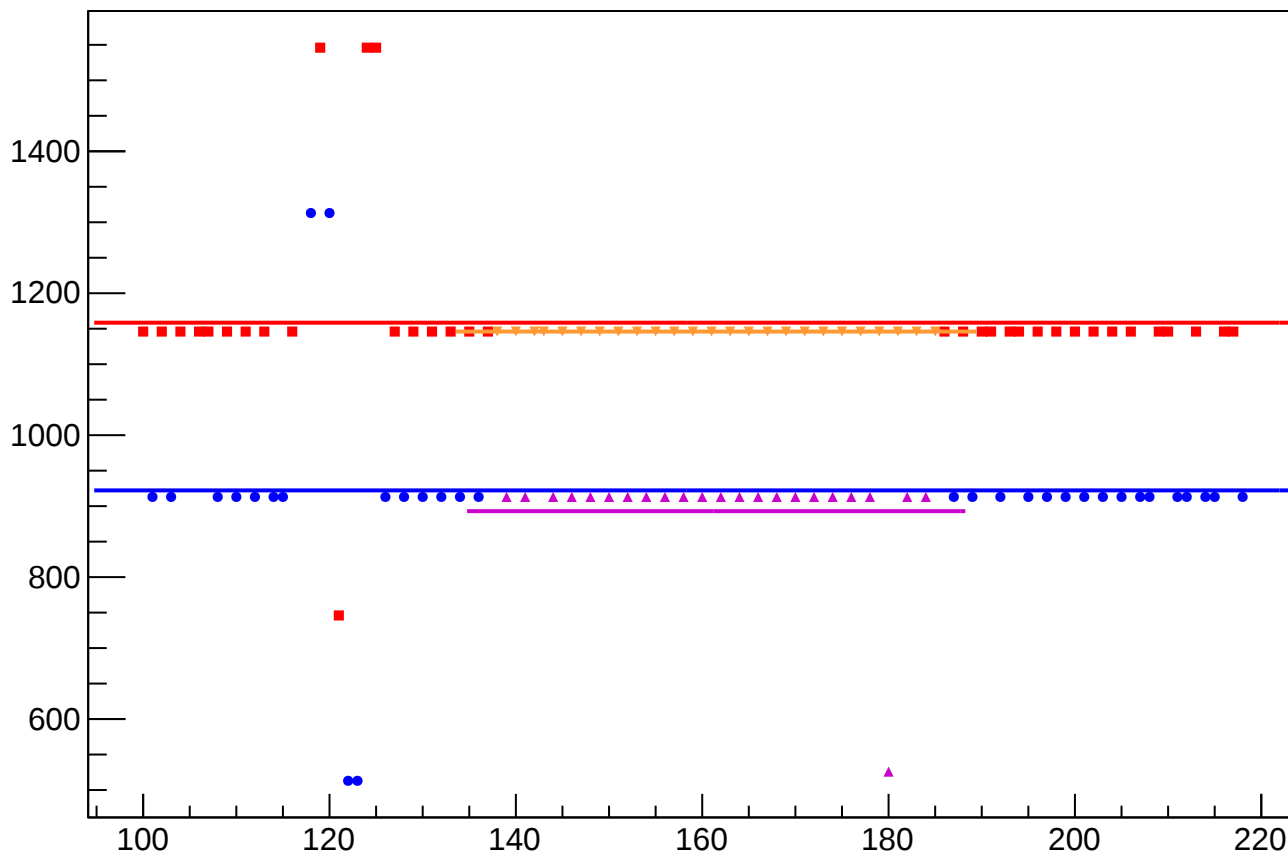
Left In: 17.009+/-0.000

χ^2/NDF : 114986101427233622065152.0/22

All: 16.495+/-0.000

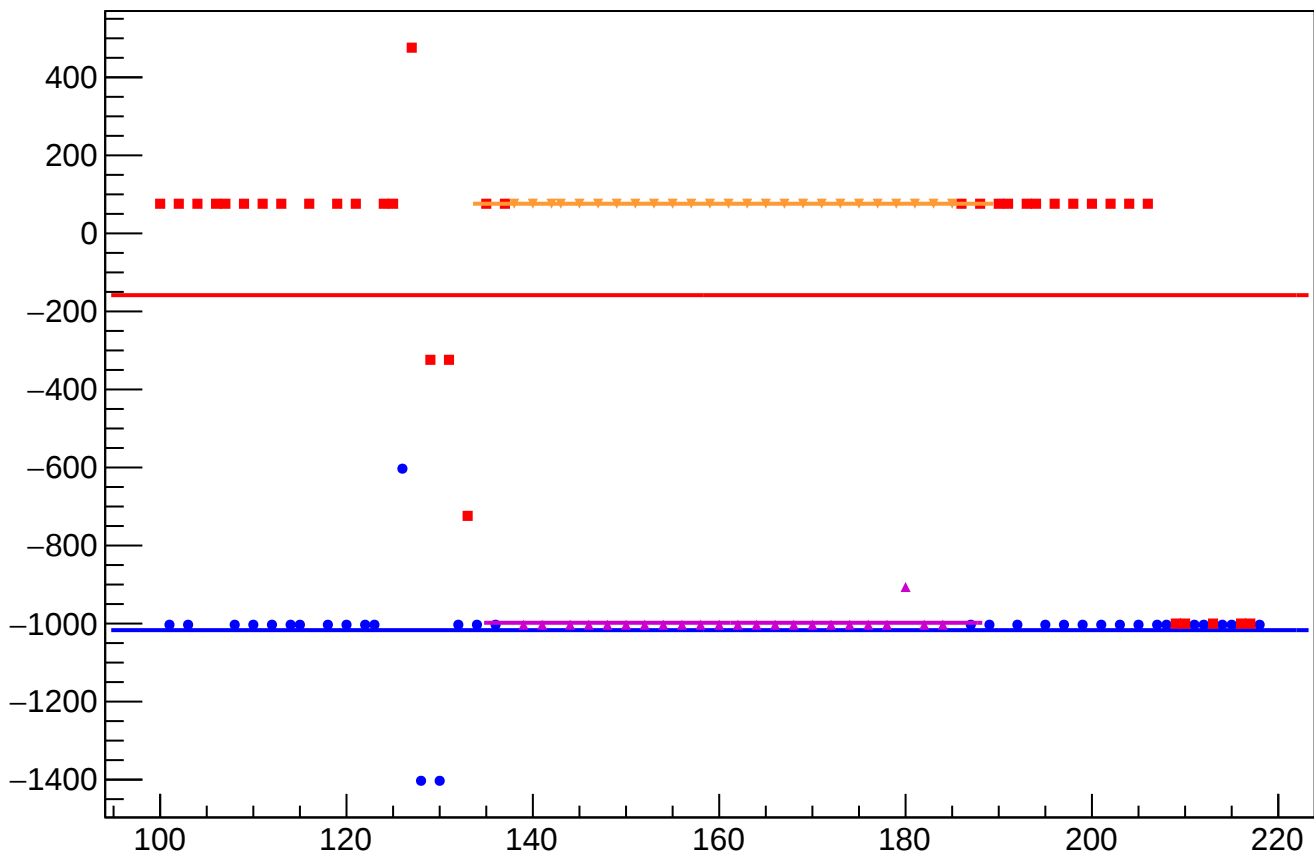
χ^2/NDF : 1844812900888

epics_RTPAPOSUCNTs_mean vs Slug, Sign Corrected



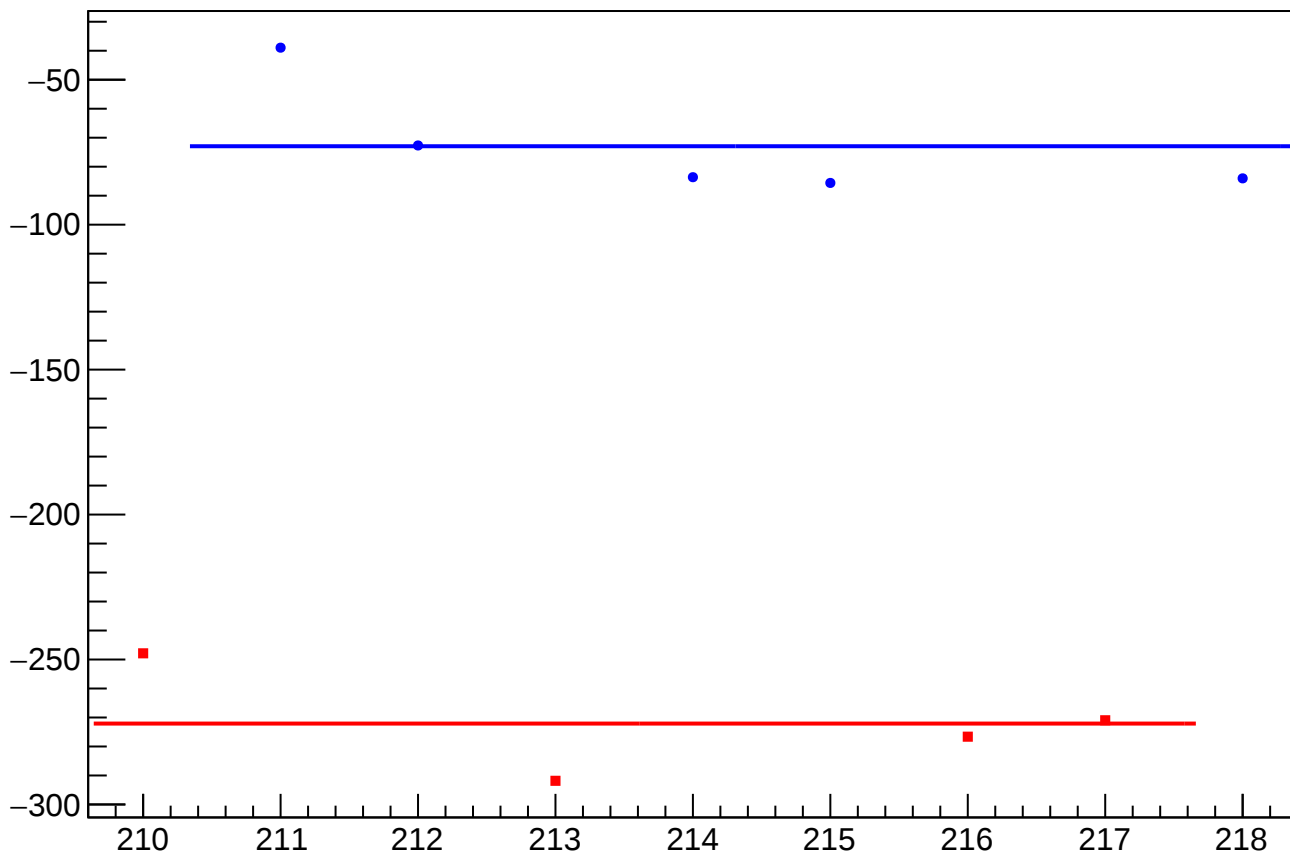
Left: 1023.207 +/- 0.000 χ^2 /NDF: 724152114185977
 Right: 1041.903 +/- 0.000 χ^2 /NDF: 95836198374283
 In: 907.868 +/- 0.000 χ^2 /NDF: 3512040753691875
 Out: 1152.283 +/- 0.000 χ^2 /NDF: 219301421311936
 All: 1032.669 +/- 0.000 χ^2 /NDF: 16890609762

epics_RTPAPOSVCNTs_mean vs Slug, Sign Corrected



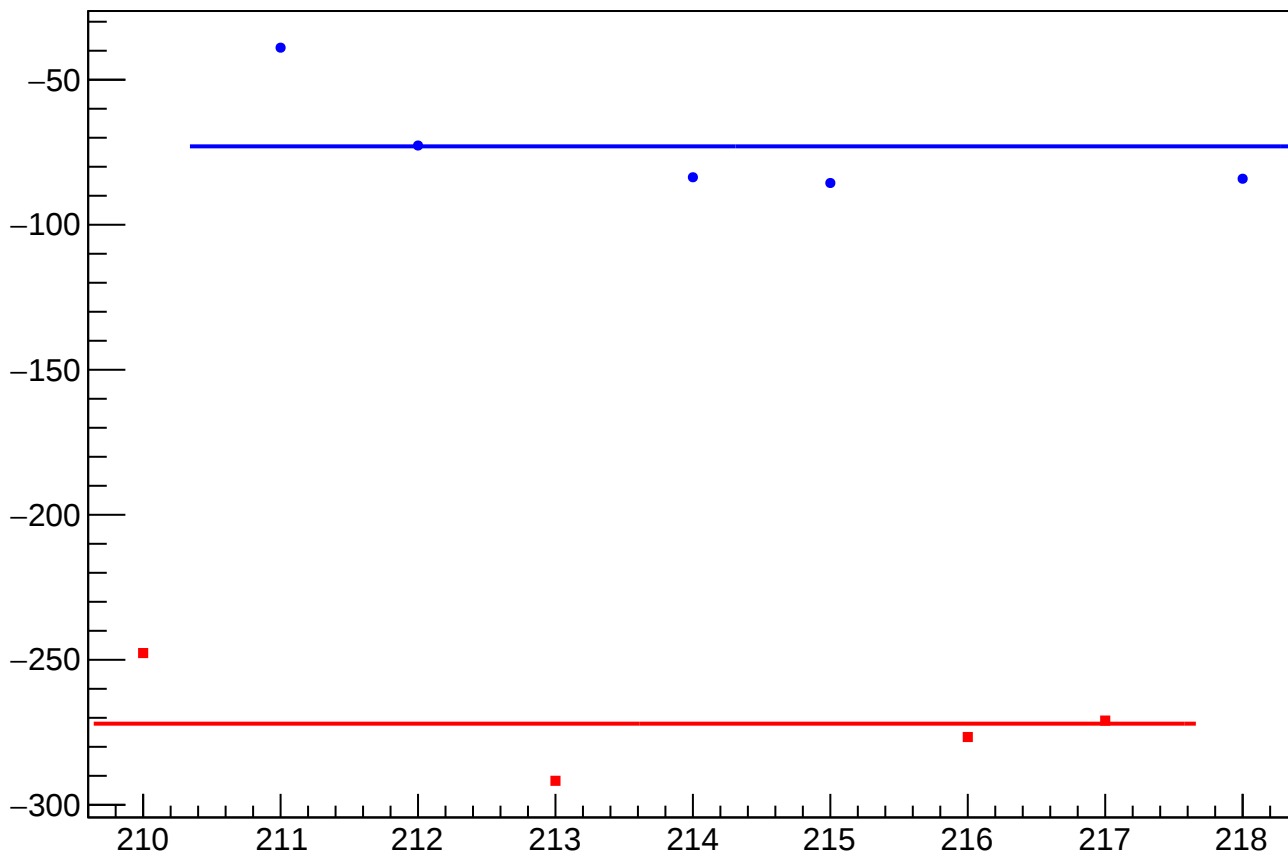
Right In: -1016.885+/-0.000 χ^2/NDF : 22838384514434722542388335364941021184.0/32
 Left Out: 76.011+/-0.000 χ^2/NDF : 11479003589933272170007363584.0/24
 Right Out: -158.319+/-0.000 χ^2/NDF : 373405797022889796997473719334582878208.0/35
 Left In: -997.979+/-0.000 χ^2/NDF : 825858066518991041870194619245920256.0/22
 All: -514.386+/-0.000 χ^2/NDF : 21970980422

epics_RTPPITA1CNTs_mean vs Slug, Sign Corrected



Right In: -72.945+/-0.000 χ^2/NDF : 119284685234098125759576533062647808.0/4
 Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0
 Right Out: -272.095+/-0.000 χ^2/NDF : 74128232206067453422165056045449216.0/3
 Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0
 All: -160.220+/-0.000 χ^2/NDF : 68328623373537

epics_RTPPITA2CNTs_mean vs Slug, Sign Corrected



Right In: -72.969+/-0.000 χ^2/NDF : 119488906189493343156944358768377856.0/4
 Left: 0.000+/-0.000 χ^2/NDF : 0.0/0
 Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0
 Right: -160.199+/-0.000 χ^2/NDF : 68265774976747
 In: -72.969+/-0.000 χ^2/NDF : 11948890618949334
 Right Out: -272.017+/-0.000 χ^2/NDF : 74430845004668100520381698914910208.0/3
 Out: 0.000+/-0.000 χ^2/NDF : 0.0/0
 Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0
 All: -160.199+/-0.000 χ^2/NDF : 68265774976