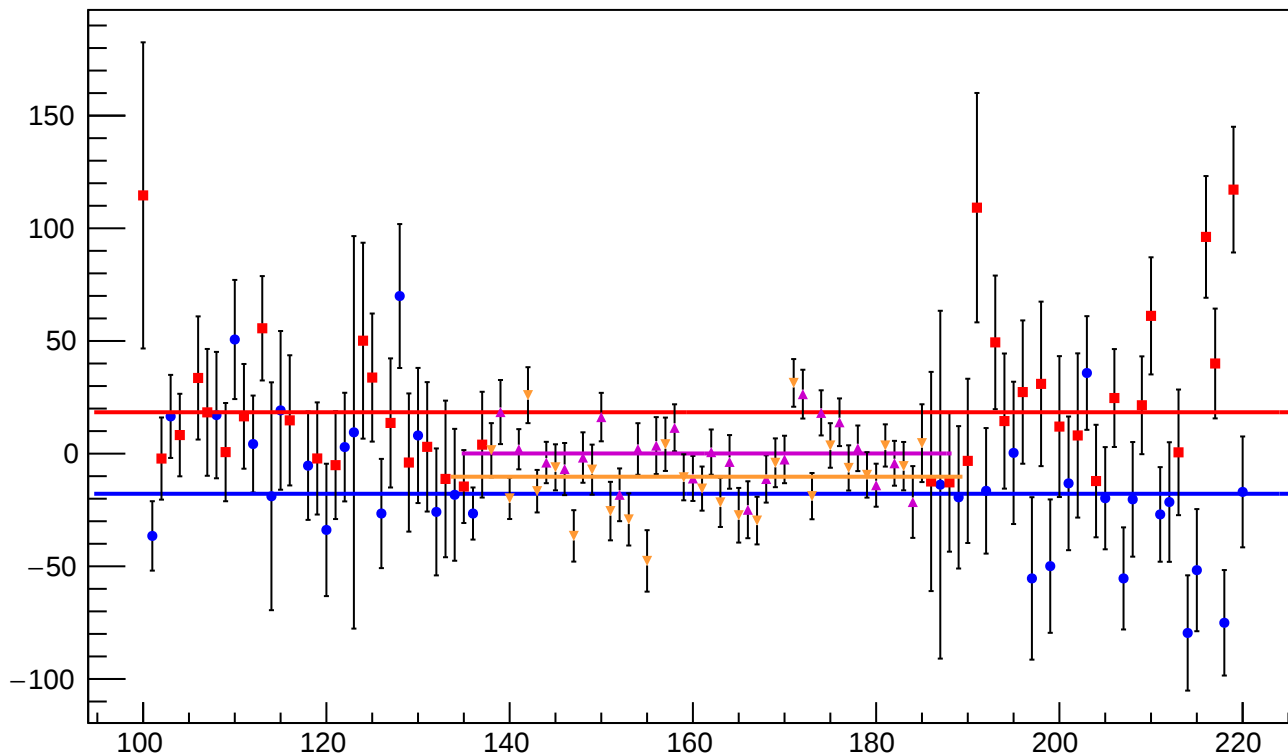


diff_bpm4aX_mean vs Slug, Sign Corrected



Right In: -17.809 $\pm$ 4.255

χ^2/NDF : 49.3/33

Left Out: -10.238 $\pm$ 2.170

χ^2/NDF : 58.1/24

Right Out: 18.372 $\pm$ 4.375

χ^2/NDF : 48.5/36

Left In: 0.080 $\pm$ 2.251

χ^2/NDF : 29.9/22

Left: -5.266 $\pm$ 1.562

χ^2/NDF : 98.9/47

Right: -0.221 $\pm$ 3.050

χ^2/NDF : 133.0/70

In: -3.831 $\pm$ 1.989

χ^2/NDF : 93.0/56

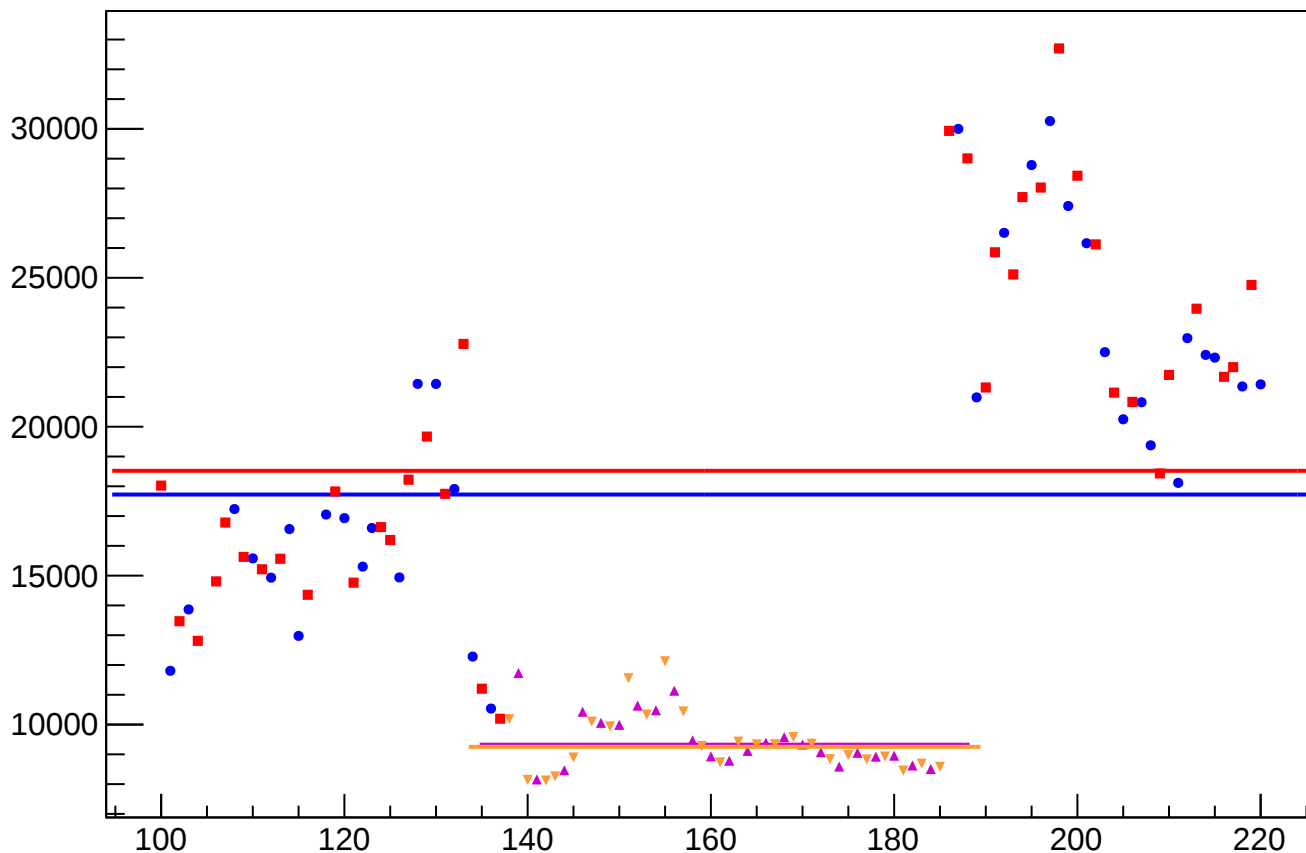
Out: -4.588 $\pm$ 1.944

χ^2/NDF : 140.9/61

All: -4.218 $\pm$ 1.390

χ^2/NDF : 234.0/118

diff_bpm4aX_rms vs Slug, Sign Corrected



Right In: 17723.271+/-3.008 χ^2/NDF : 2991591.5/33

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

Right Out: 18520.431+/-3.093 χ^2/NDF : 3076549.0/36

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

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

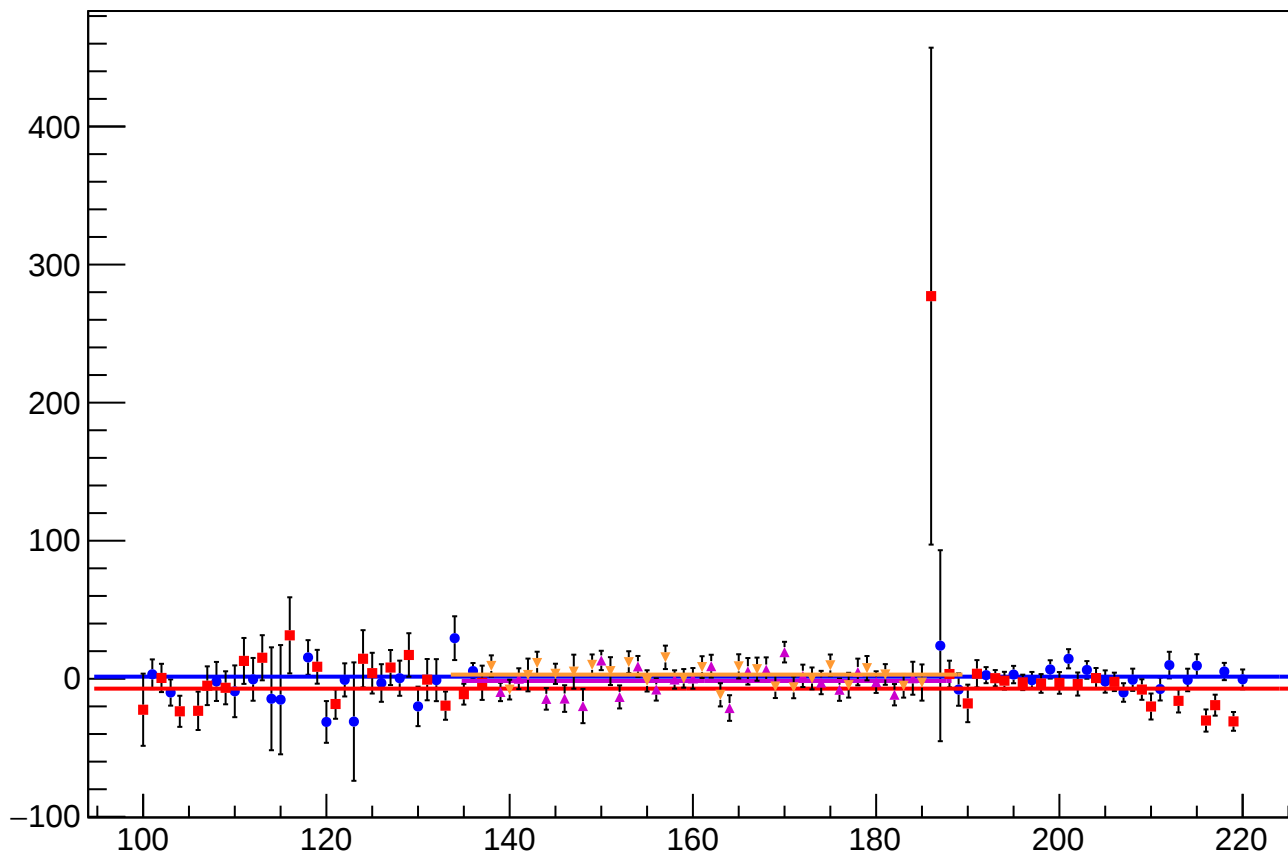
Right: 18110.766+/-2.157 χ^2/NDF : 6102269.0/70

In: 11160.309+/-1.407 χ^2/NDF : 9357749.8/56

Out: 11082.383+/-1.375 χ^2/NDF : 10613606.6/61

All: 11120.450+/-0.983 χ^2/NDF : 19972926.1

diff_bpm4aY_mean vs Slug, Sign Corrected



Right In: 1.538 ± 1.550 χ^2/NDF : 27.0/33

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

Right Out: -7.136 ± 1.546 χ^2/NDF : 56.9/36

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

Left: 0.777 ± 1.189 χ^2/NDF : 57.8/47

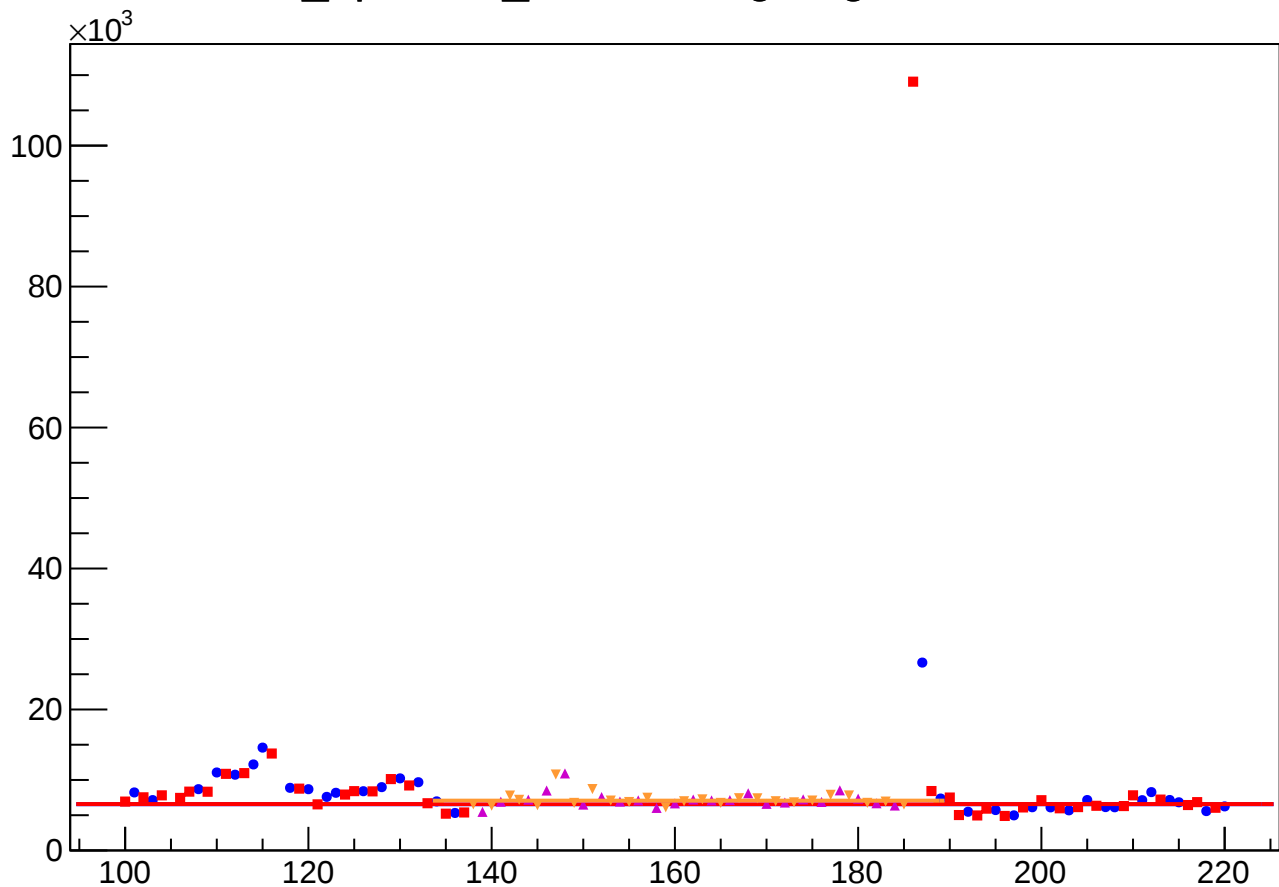
Right: -2.812 ± 1.094 χ^2/NDF : 99.7/70

In: 0.121 ± 1.146 χ^2/NDF : 64.4/56

Out: -2.419 ± 1.131 χ^2/NDF : 95.6/61

All: -1.165 ± 0.805 χ^2/NDF : 162.4/118

diff_bpm4aY_rms vs Slug, Sign Corrected



Right In: 6560.618 $\pm$ 1.096 χ^2/NDF : 1669850.2/33

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

Right Out: 6580.824 $\pm$ 1.093 χ^2/NDF : 2166703.9/36

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

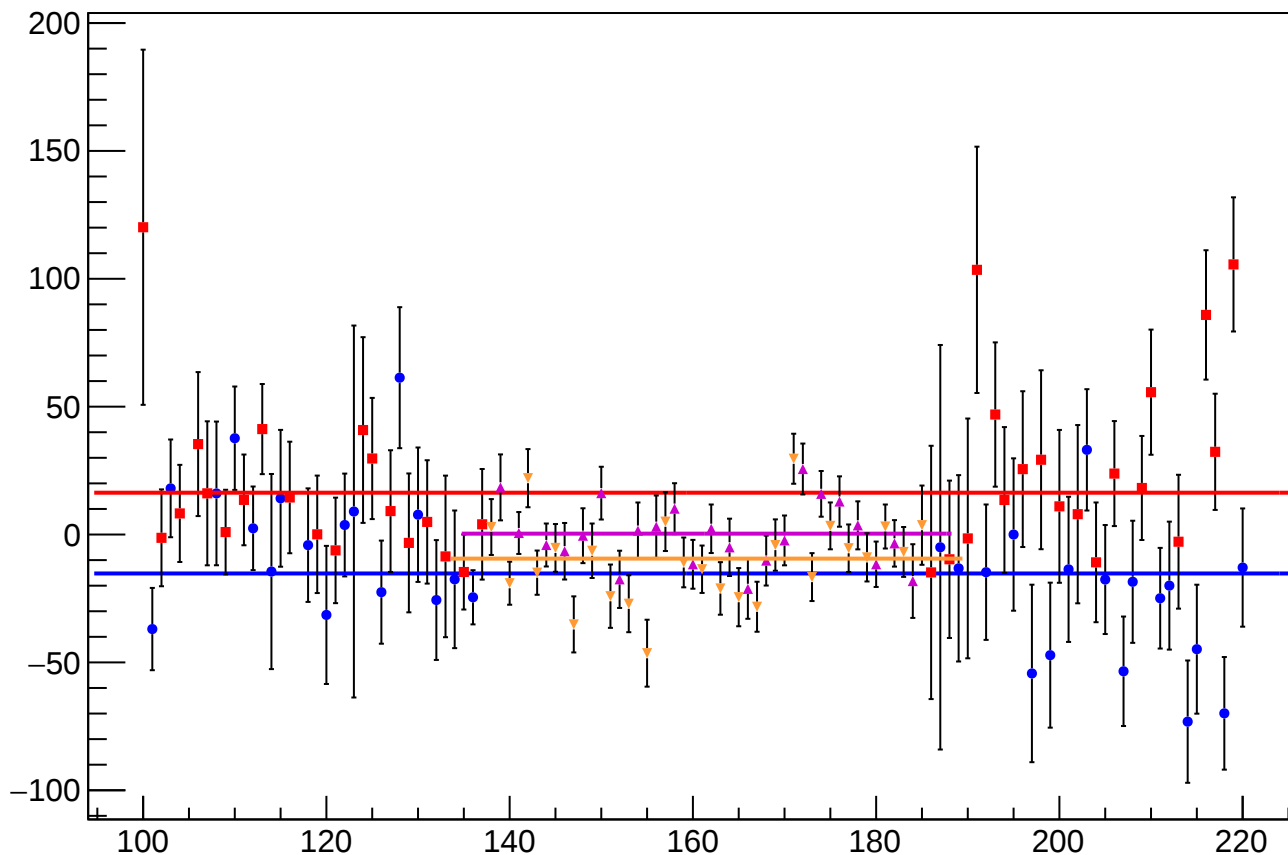
Right: 6570.751 $\pm$ 0.774 χ^2/NDF : 3836724.6/70

In: 6766.355 $\pm$ 0.810 χ^2/NDF : 2272906.0/56

Out: 6805.306 $\pm$ 0.800 χ^2/NDF : 2644422.3/61

All: 6786.085 $\pm$ 0.569 χ^2/NDF : 4918498.1/111

diff_bpm4eX_mean vs Slug, Sign Corrected



Right In: -15.227 ± 3.902 $\chi^2/\text{NDF}: 50.4/33$

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

Right Out: 16.357 ± 3.977 $\chi^2/\text{NDF}: 45.6/36$

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

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

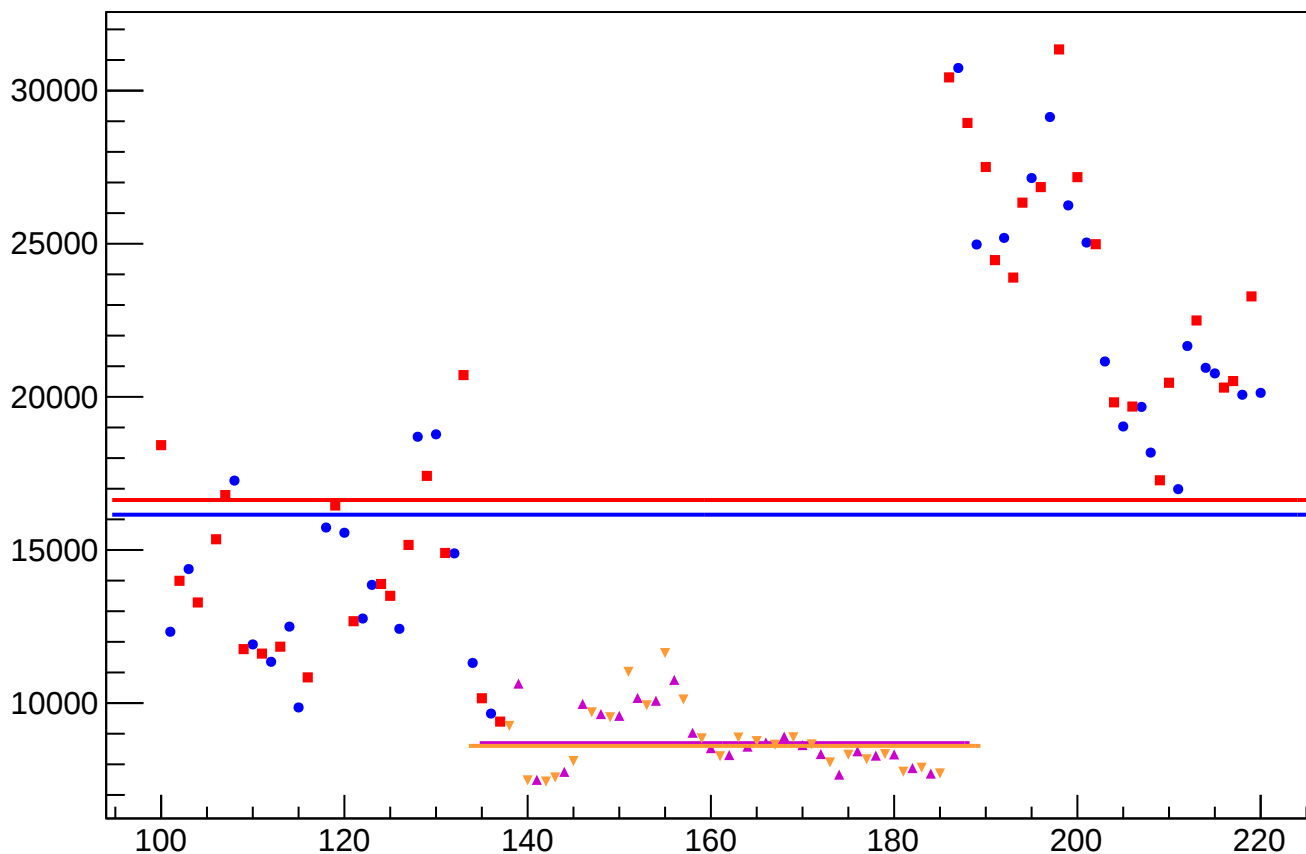
Right: 0.265 ± 2.785 $\chi^2/\text{NDF}: 128.2/70$

In: -3.155 ± 1.850 $\chi^2/\text{NDF}: 92.7/56$

Out: -4.122 ± 1.802 $\chi^2/\text{NDF}: 137.8/61$

All: -3.651 ± 1.291 $\chi^2/\text{NDF}: 230.6/118$

diff_bpm4eX_rms vs Slug, Sign Corrected



Right In: 16152.130 $\pm$ 2.759 χ^2 /NDF: 3496475.6/33

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

Right Out: 16631.594 $\pm$ 2.812 χ^2 /NDF: 3920033.3/36

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

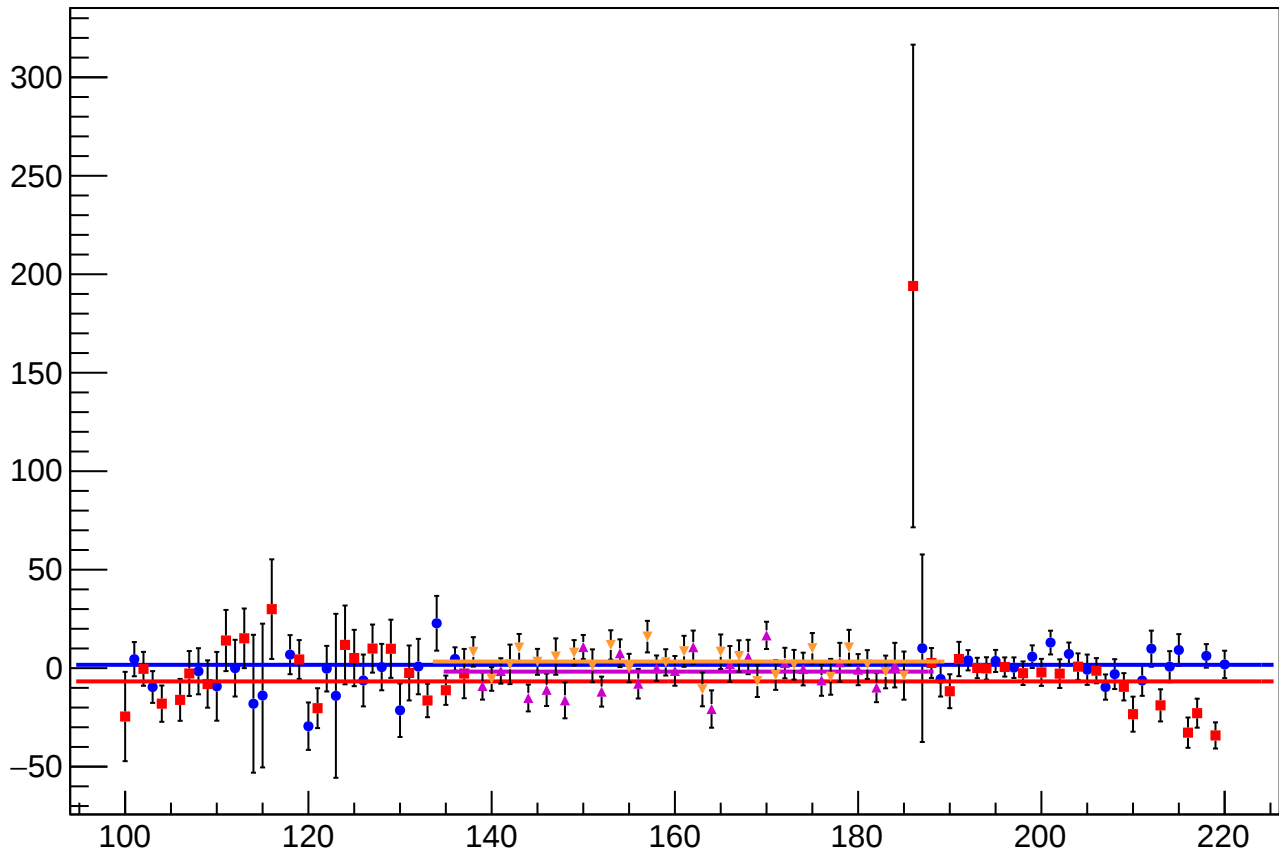
Right: 16387.312 $\pm$ 1.969 χ^2 /NDF: 7431321.3/70

In: 10367.510 $\pm$ 1.308 χ^2 /NDF:9531073.9/56

Out: 10250.327 $\pm$ 1.274 χ^2 /NDF:10838721.3/61

All: 10307.383 $\pm$ 0.913 χ^2 /NDF: 20373914.6

diff_bpm4eY_mean vs Slug, Sign Corrected



Right In: 1.696 ± 1.412 $\chi^2/\text{NDF}: 28.9/33$

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

Right Out: -6.719 ± 1.389 $\chi^2/\text{NDF}: 73.1/36$

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

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

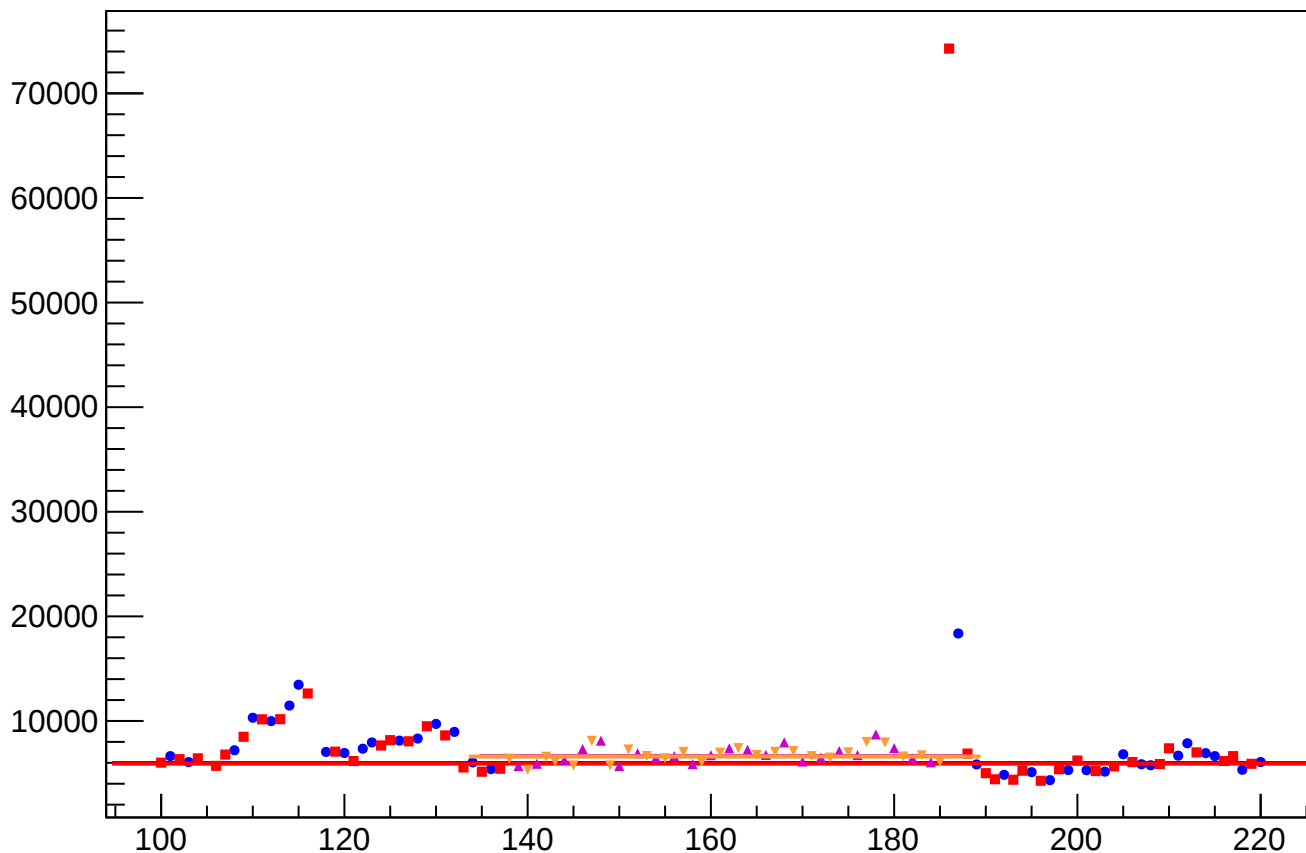
Right: -2.579 ± 0.990 $\chi^2/\text{NDF}: 120.1/70$

In: 0.193 ± 1.061 $\chi^2/\text{NDF}: 65.1/56$

Out: -2.230 ± 1.035 $\chi^2/\text{NDF}: 113.8/61$

All: -1.048 ± 0.741 $\chi^2/\text{NDF}: 181.5/118$

diff_bpm4eY_rms vs Slug, Sign Corrected



Right In: 5980.325+/-0.998 χ^2/NDF : 1669311.0/33

Left Out: 6603.953+/-1.097 χ^2/NDF : 395247.5/24

Right Out: 5925.465+/-0.982 χ^2/NDF : 2254605.7/36

Left In: 6637.155+/-1.136 χ^2/NDF : 415547.5/22

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

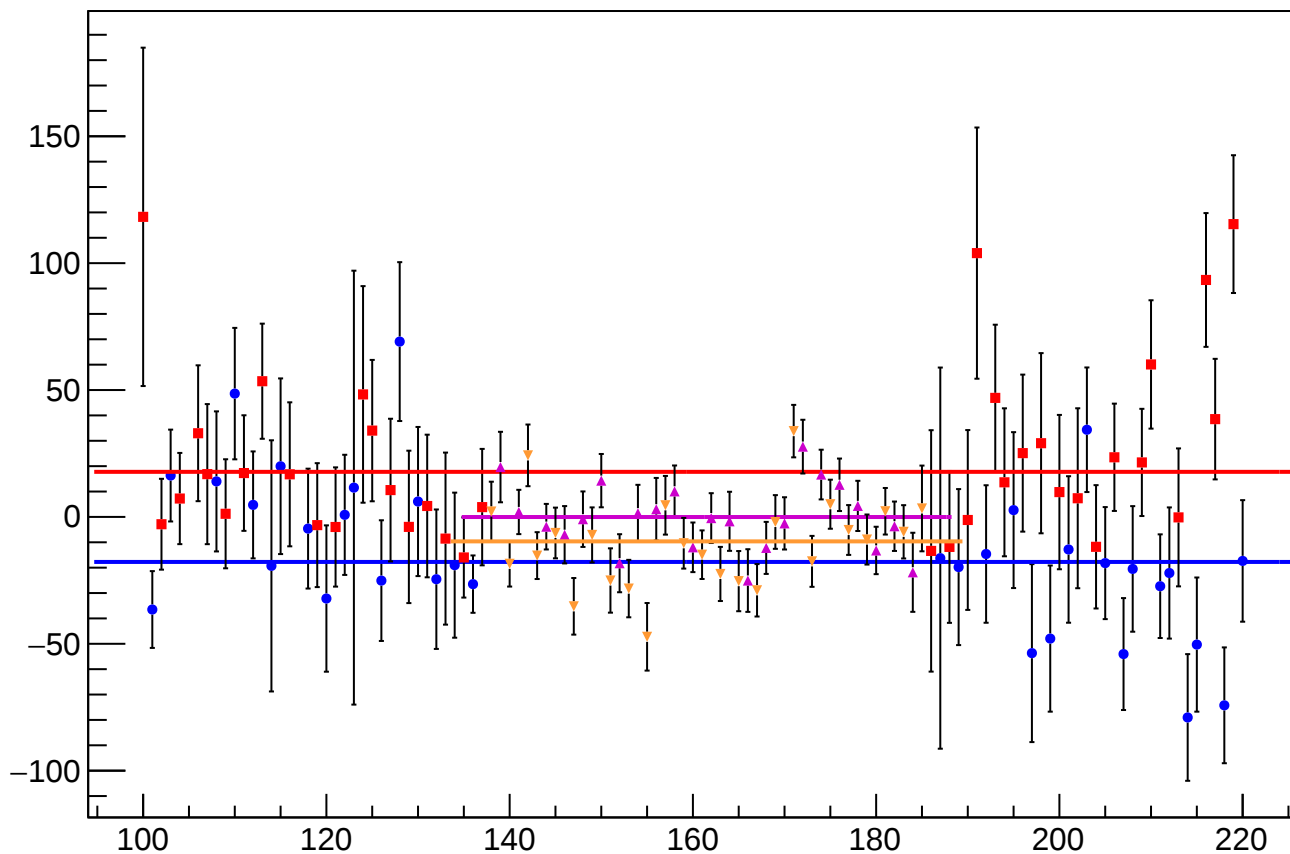
Right: 5952.454+/-0.700 χ^2/NDF : 3925451.5/70

In: 6266.399+/-0.750 χ^2/NDF : 2273458.0/56

Out: 6227.272+/-0.732 χ^2/NDF : 2862115.9/61

All: 6246.358+/-0.524 χ^2/NDF : 5136968.2/11

diff_bpm4acX_mean vs Slug, Sign Corrected



Right In: -17.743 $\pm$ 4.158 χ^2/NDF : 49.5/33

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

Right Out: 17.763 $\pm$ 4.277 χ^2/NDF : 48.9/36

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

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

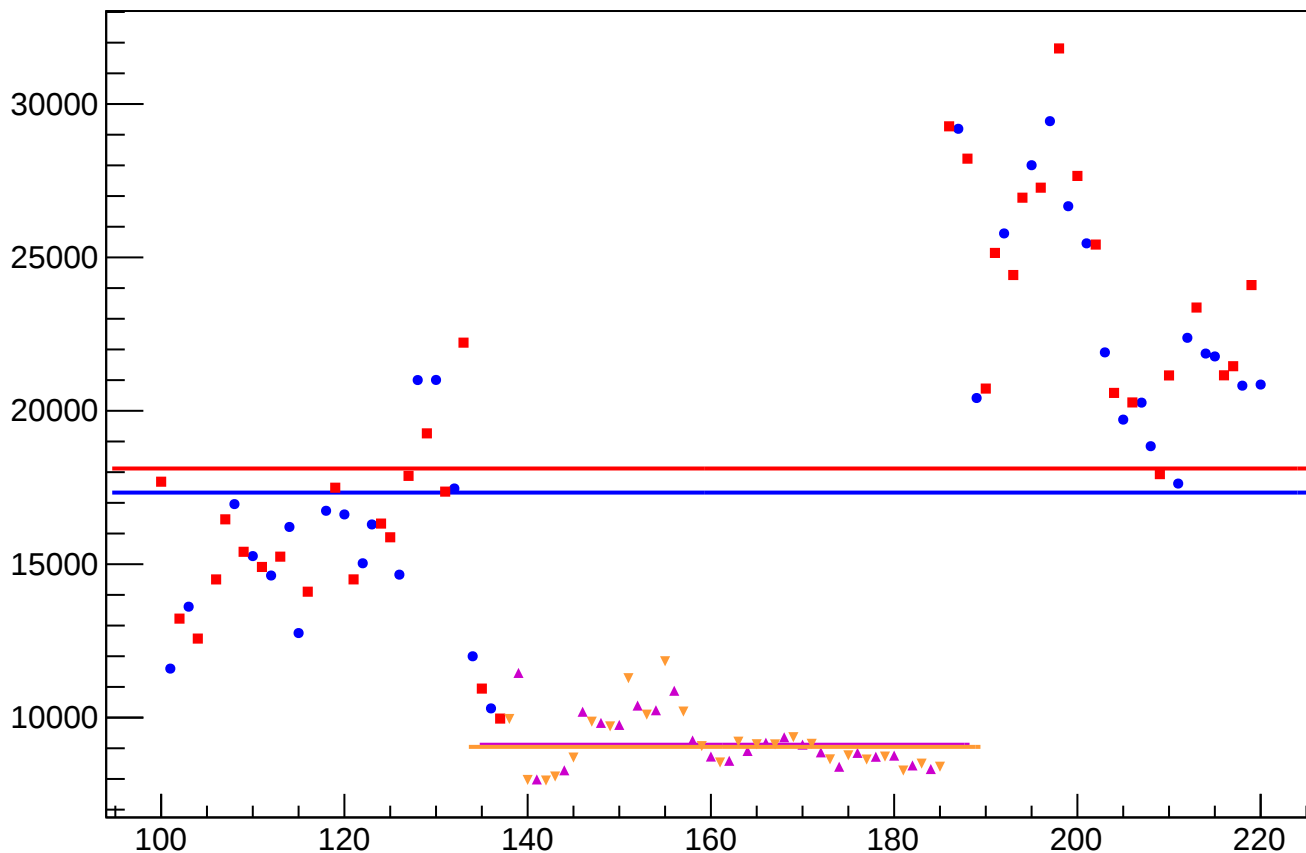
Right: -0.488 $\pm$ 2.981 χ^2/NDF : 133.9/70

In: -3.914 $\pm$ 1.945 χ^2/NDF : 94.4/56

Out: -4.227 $\pm$ 1.901 χ^2/NDF : 141.8/61

All: -4.074 $\pm$ 1.359 χ^2/NDF : 236.2/118

diff_bpm4acX_rms vs Slug, Sign Corrected



Right In: 17334.378 ± 2.940 $\chi^2/\text{NDF}: 2941394.3/33$

Left Out: 9045.871 ± 1.500 $\chi^2/\text{NDF}: 328508.5/24$

Right Out: 18119.570 ± 3.024 $\chi^2/\text{NDF}: 3019779.8/36$

Left In: 9115.817 ± 1.556 $\chi^2/\text{NDF}: 272471.8/22$

Left: 9079.576 ± 1.080 $\chi^2/\text{NDF}: 602027.6/47$

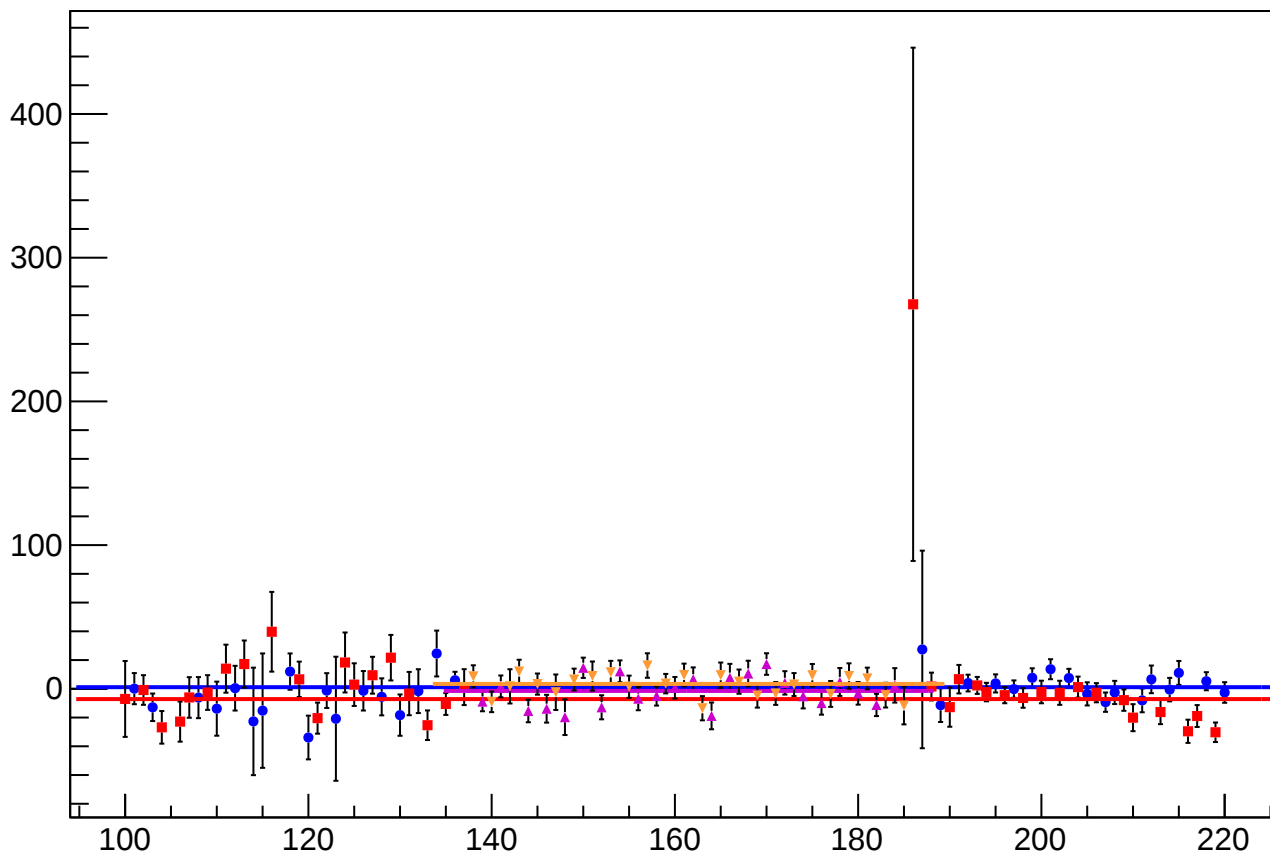
Right: 17715.963 ± 2.108 $\chi^2/\text{NDF}: 5995830.1/70$

In: 10913.379 ± 1.375 $\chi^2/\text{NDF}: 9317774.5/56$

Out: 10838.175 ± 1.344 $\chi^2/\text{NDF}: 10573362.8/61$

All: 10874.916 ± 0.961 $\chi^2/\text{NDF}: 19892667.0/118$

diff_bpm4acY_mean vs Slug, Sign Corrected



Right In: 1.124+/-1.555 χ^2/NDF : 28.5/33

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

Right Out: -7.155+/-1.551 χ^2/NDF : 60.8/36

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

Left: 1.015+/-1.194 χ^2/NDF : 60.3/47

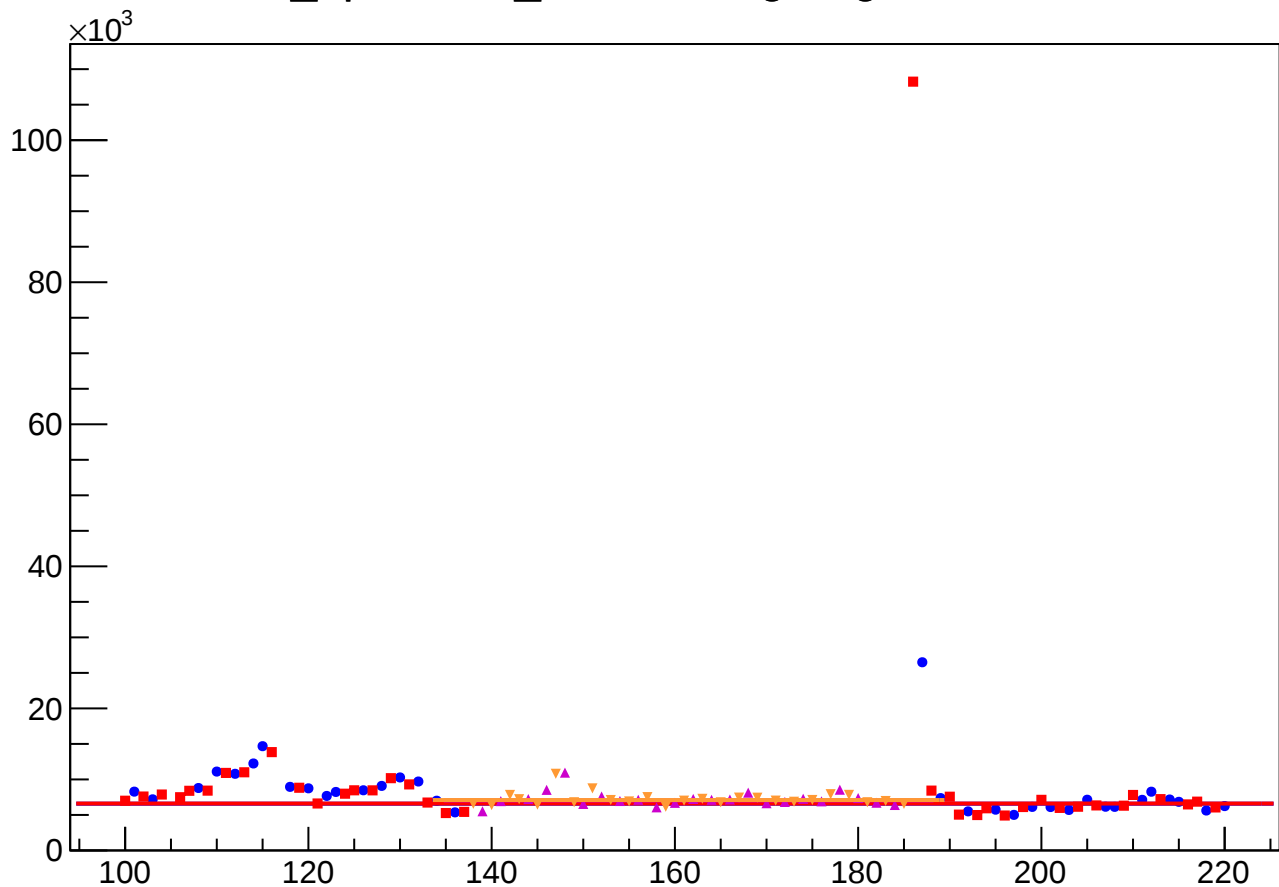
Right: -3.026+/-1.098 χ^2/NDF : 103.5/70

In: -0.054+/-1.150 χ^2/NDF : 66.6/56

Out: -2.267+/-1.136 χ^2/NDF : 101.6/61

All: -1.175+/-0.808 χ^2/NDF : 170.0/118

diff_bpm4acY_rms vs Slug, Sign Corrected



Right In: 6580.840 $\pm$ 1.099 χ^2/NDF : 1674476.8/33

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

Right Out: 6603.997 $\pm$ 1.097 χ^2/NDF : 2171130.2/36

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

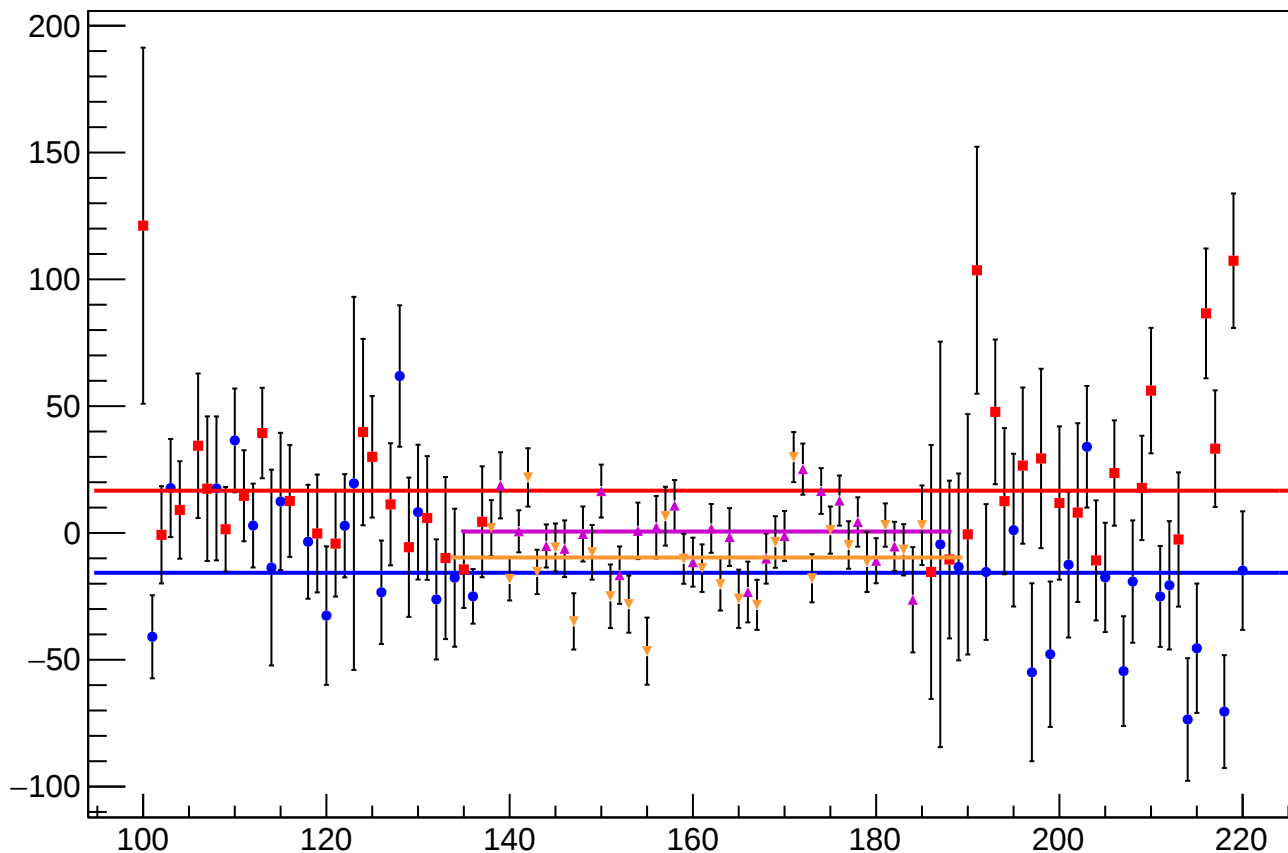
Right: 6592.448 $\pm$ 0.776 χ^2/NDF : 3845829.5/70

In: 6791.886 $\pm$ 0.813 χ^2/NDF : 2273362.1/56

Out: 6832.286 $\pm$ 0.803 χ^2/NDF : 2646549.9/61

All: 6812.346 $\pm$ 0.571 χ^2/NDF : 4921161.1/111

diff_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -15.697 $\pm$ 3.951 χ^2/NDF : 50.7/33

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

Right Out: 16.677 $\pm$ 4.029 χ^2/NDF : 44.6/36

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

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

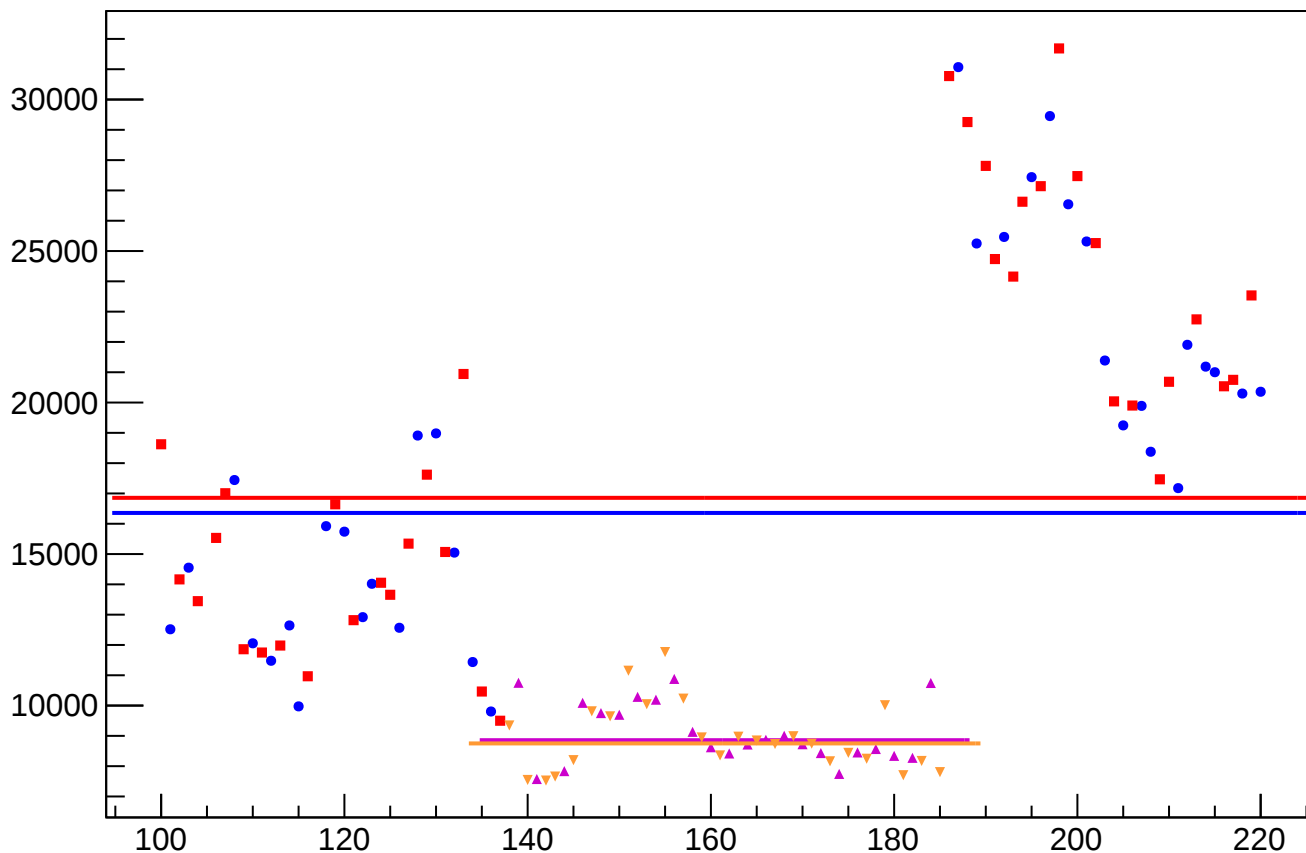
Right: 0.174 $\pm$ 2.821 χ^2/NDF : 128.3/70

In: -3.135 $\pm$ 1.884 χ^2/NDF : 93.6/56

Out: -4.206 $\pm$ 1.835 χ^2/NDF : 136.4/61

All: -3.685 $\pm$ 1.314 χ^2/NDF : 230.2/118

diff_bpm4ecX_rms vs Slug, Sign Corrected



Right In: 16356.874 $\pm$ 2.794 χ^2 /NDF: 3471158.2/33

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

Right Out: 16855.652 $\pm$ 2.849 χ^2 /NDF: 3878071.4/36

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

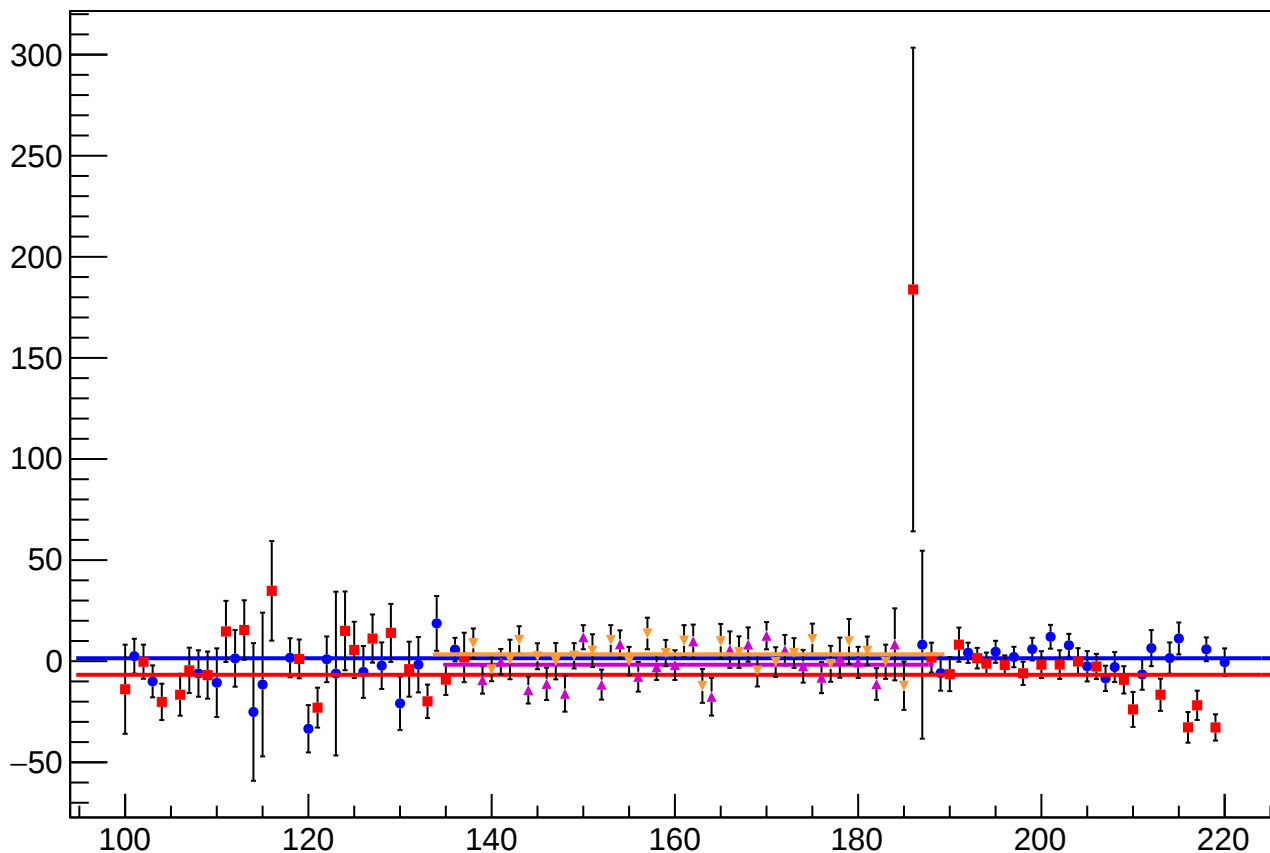
Right: 16601.392 $\pm$ 1.995 χ^2 /NDF: 7364857.4/70

In: 10563.124 $\pm$ 1.332 χ^2 /NDF: 9400639.0/56

Out: 10431.230 $\pm$ 1.297 χ^2 /NDF: 10758689.9/61

All: 10495.418 $\pm$ 0.929 χ^2 /NDF: 20164359.7

diff_bpm4ecY_mean vs Slug, Sign Corrected



Right In: 1.463 $\pm$ 1.378 χ^2/NDF : 31.5/33

Left Out: 3.433 $\pm$ 1.526 χ^2/NDF : 16.2/24

Right Out: -6.709 $\pm$ 1.355 χ^2/NDF : 75.8/36

Left In: -1.734 $\pm$ 1.586 χ^2/NDF : 33.6/22

Left: 0.949 $\pm$ 1.099 χ^2/NDF : 55.3/47

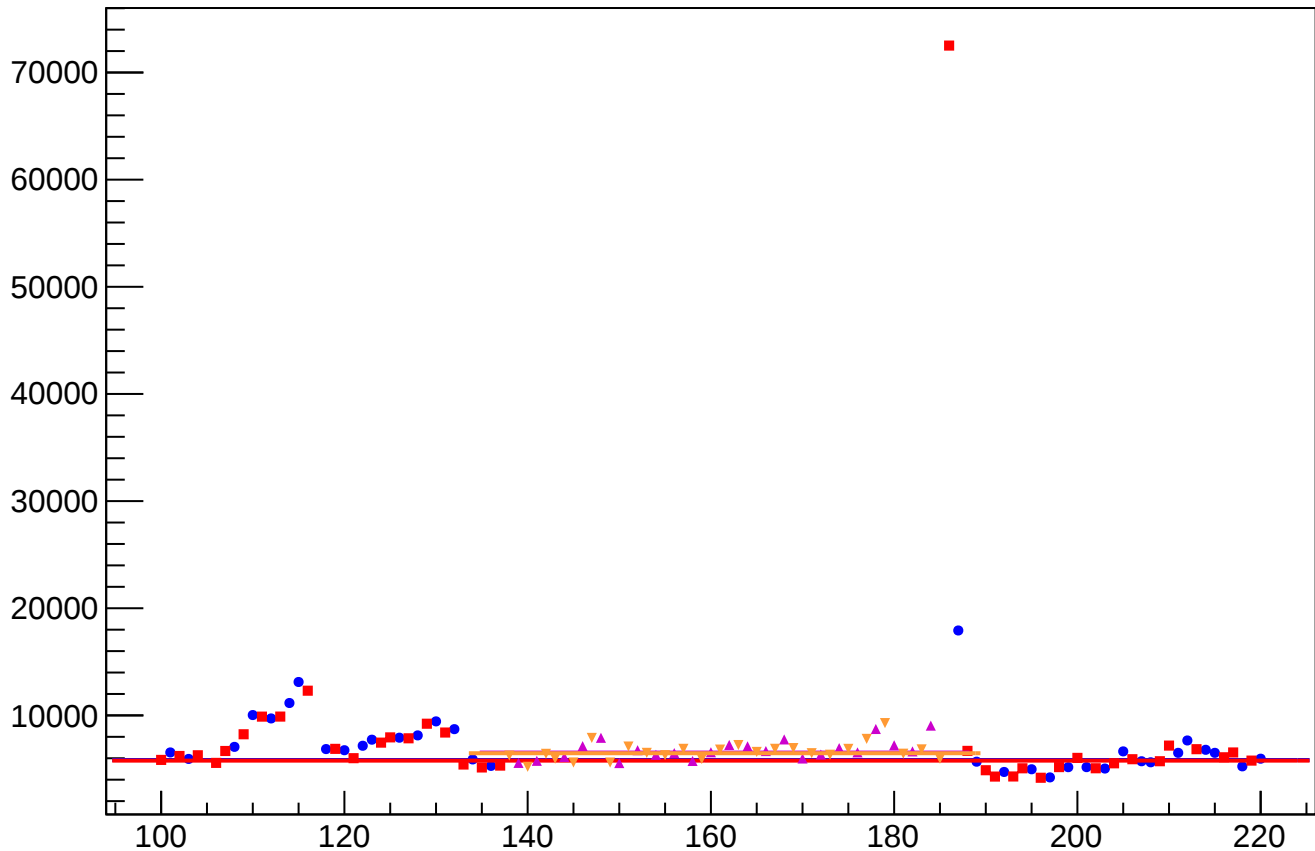
Right: -2.691 $\pm$ 0.966 χ^2/NDF : 125.1/70

In: 0.087 $\pm$ 1.040 χ^2/NDF : 67.4/56

Out: -2.236 $\pm$ 1.013 χ^2/NDF : 116.7/61

All: -1.105 $\pm$ 0.726 χ^2/NDF : 186.7/118

diff_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 5836.407+/-0.974 χ^2/NDF : 1674373.5/33

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

Right Out: 5780.041+/-0.958 χ^2/NDF : 2250842.2/36

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

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

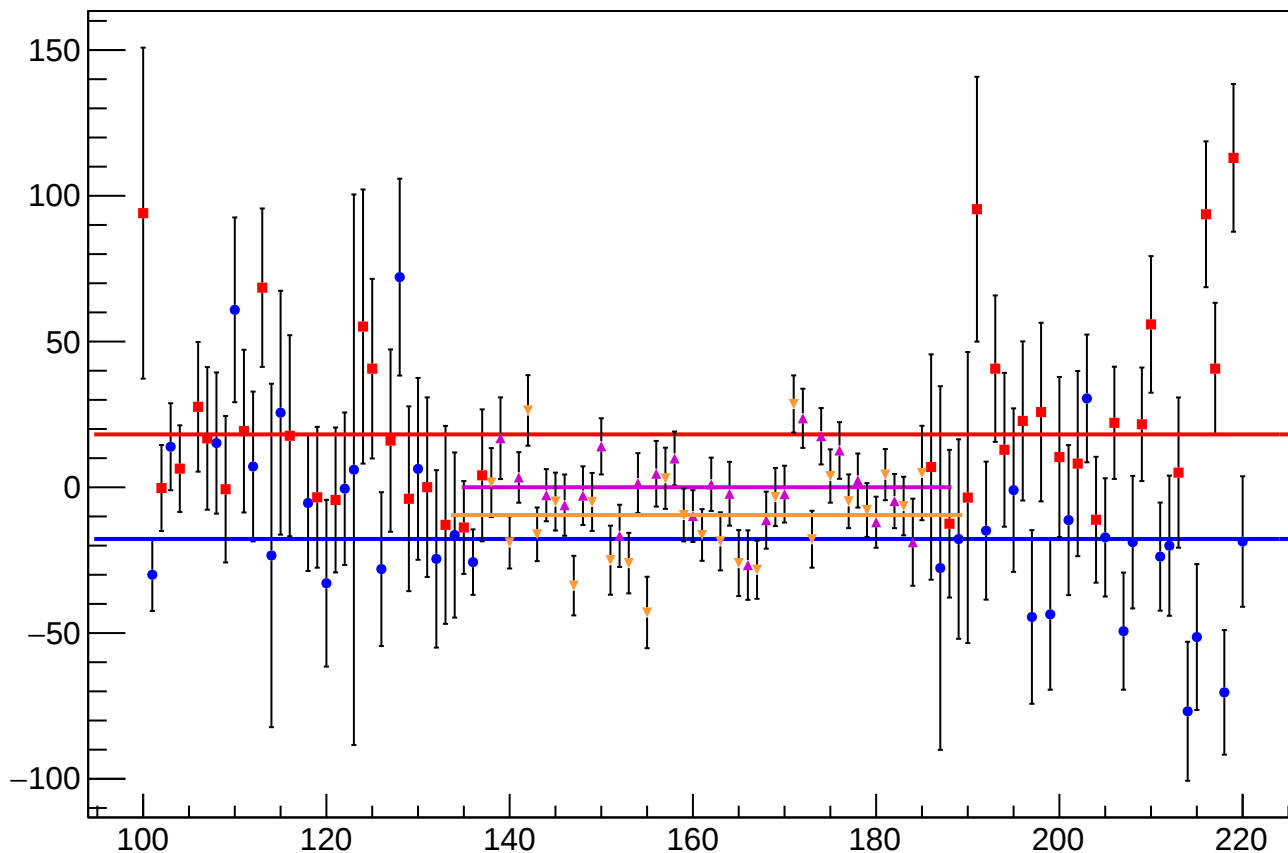
Right: 5807.756+/-0.683 χ^2/NDF : 3926916.4/70

In: 6135.246+/-0.736 χ^2/NDF : 2357612.8/56

Out: 6083.893+/-0.716 χ^2/NDF : 2965890.3/61

All: 6108.896+/-0.513 χ^2/NDF : 5326004.0/11

diff_bpm1X_mean vs Slug, Sign Corrected



Right In: -17.722 ± 3.963 $\chi^2/\text{NDF}: 48.6/33$

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

Right Out: 18.156 ± 4.095 $\chi^2/\text{NDF}: 51.6/36$

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

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

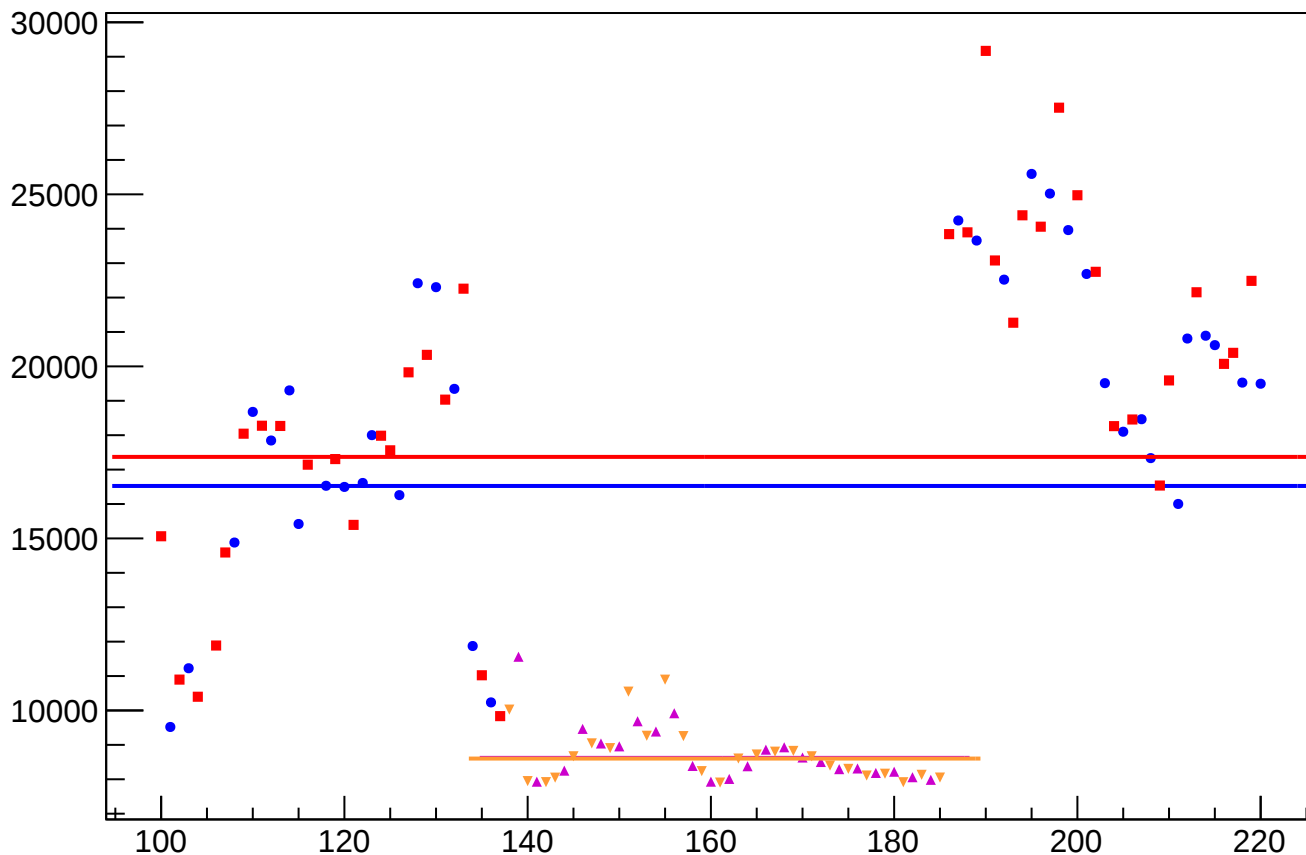
Right: -0.369 ± 2.848 $\chi^2/\text{NDF}: 139.9/70$

In: -3.806 ± 1.842 $\chi^2/\text{NDF}: 94.2/56$

Out: -4.130 ± 1.808 $\chi^2/\text{NDF}: 148.0/61$

All: -3.971 ± 1.290 $\chi^2/\text{NDF}: 242.3/118$

diff_bpm1X_rms vs Slug, Sign Corrected



Right In: 16524.657 $\pm$ 2.802 χ^2 /NDF: 2974513.9/33

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

Right Out: 17369.350 $\pm$ 2.895 χ^2 /NDF: 2924609.5/36

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

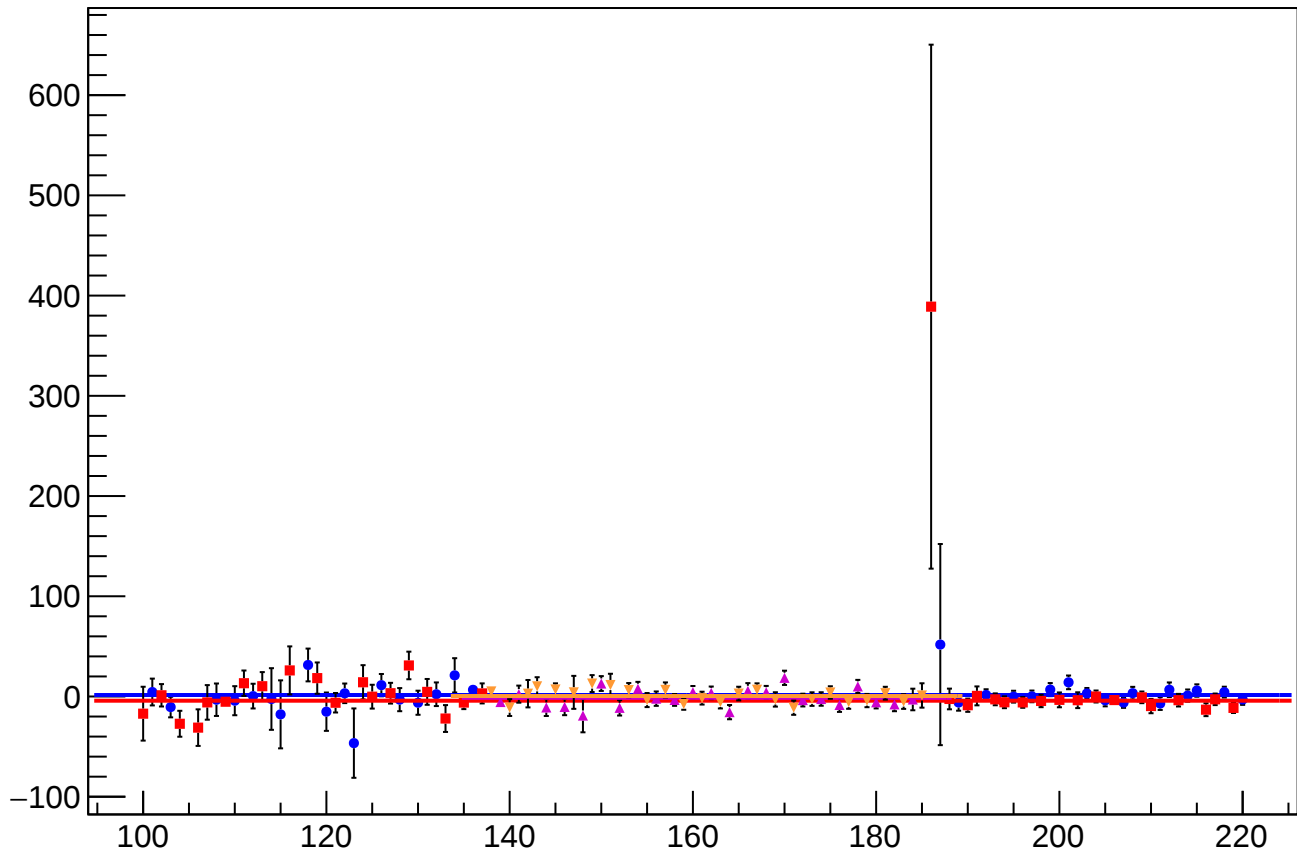
Right: 16933.219 $\pm$ 2.014 χ^2 /NDF: 5943070.7/70

In: 10328.564 $\pm$ 1.302 χ^2 /NDF:9440792.8/56

Out: 10311.564 $\pm$ 1.279 χ^2 /NDF:10555208.7/61

All: 10319.908 $\pm$ 0.912 χ^2 /NDF: 19996088.2

diff_bpm1Y_mean vs Slug, Sign Corrected



Right In: 1.472 ± 1.327 $\chi^2/\text{NDF}: 24.2/33$

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

Right Out: -4.195 ± 1.292 $\chi^2/\text{NDF}: 32.4/36$

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

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

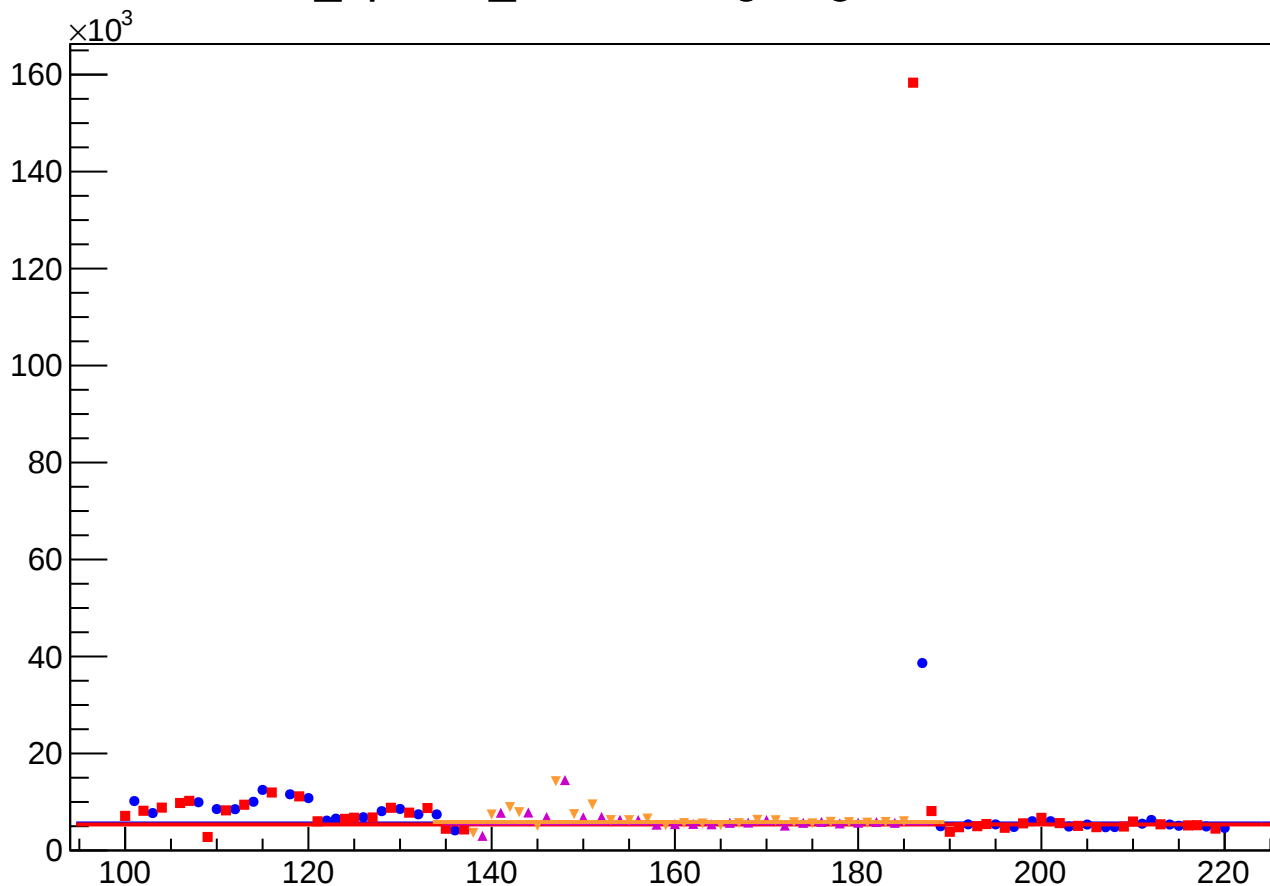
Right: -1.437 ± 0.926 $\chi^2/\text{NDF}: 65.9/70$

In: 0.167 ± 0.965 $\chi^2/\text{NDF}: 59.3/56$

Out: -2.076 ± 0.956 $\chi^2/\text{NDF}: 57.9/61$

All: -0.966 ± 0.679 $\chi^2/\text{NDF}: 119.9/118$

diff_bpm1Y_rms vs Slug, Sign Corrected



Right In: 5569.371 $\pm$ 0.938 χ^2/NDF : 2247006.9/33

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

Right Out: 5359.080 $\pm$ 0.914 χ^2/NDF : 3526777.9/36

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

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

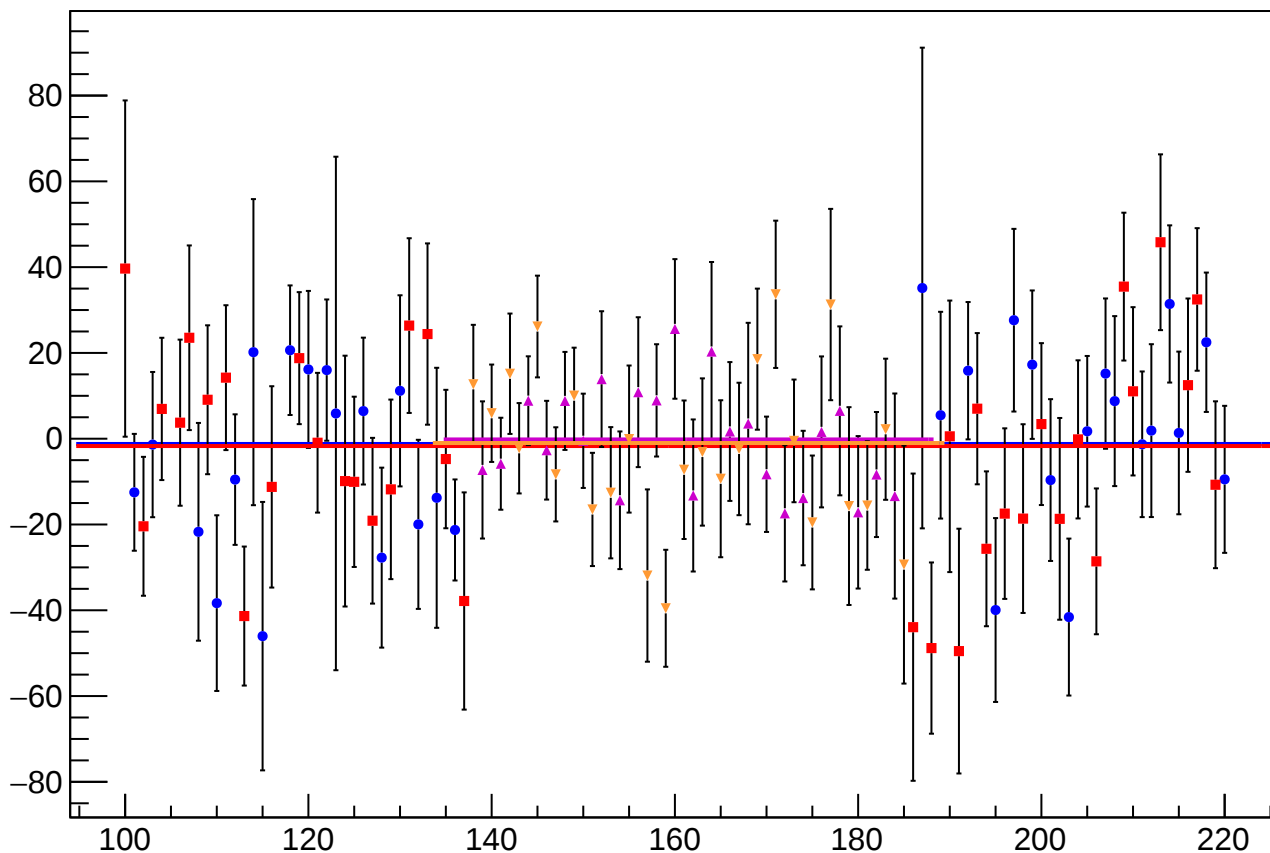
Right: 5461.428 $\pm$ 0.655 χ^2/NDF : 5799559.1/70

In: 5582.330 $\pm$ 0.682 χ^2/NDF : 4337161.8/56

Out: 5585.532 $\pm$ 0.676 χ^2/NDF : 5353594.1/61

All: 5583.947 $\pm$ 0.480 χ^2/NDF : 9690767.0/11

diff_bpm11X_mean vs Slug, Sign Corrected



Right In: -1.227 ± 3.224 χ^2/NDF : 37.2/33

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

Right Out: -1.709 ± 3.218 χ^2/NDF : 51.7/36

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

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

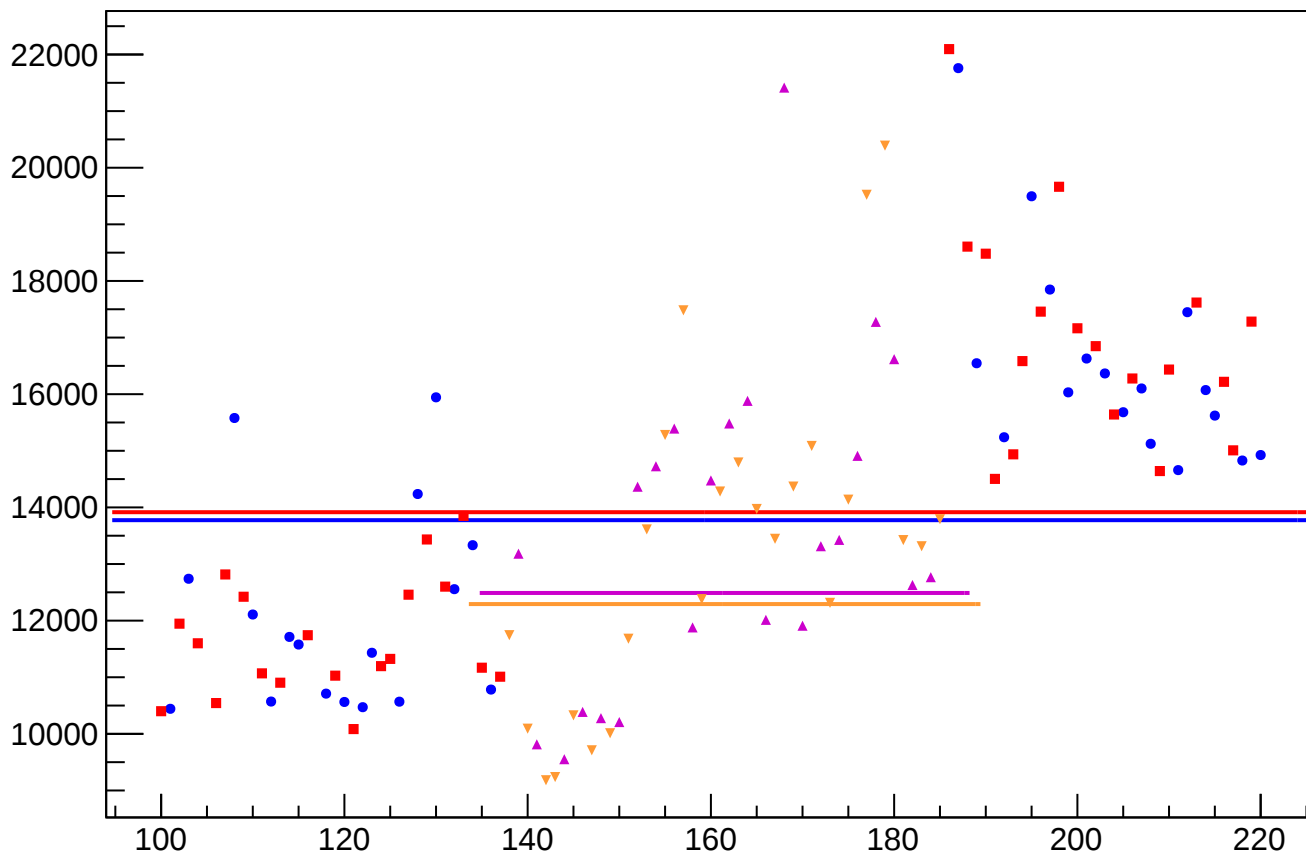
Right: -1.468 ± 2.278 χ^2/NDF : 88.9/70

In: -0.673 ± 2.222 χ^2/NDF : 49.6/56

Out: -1.327 ± 2.171 χ^2/NDF : 85.2/61

All: -1.007 ± 1.553 χ^2/NDF : 134.8/118

diff_bpm11X_rms vs Slug, Sign Corrected



Right In: 13774.480 $\pm$ 2.279

χ^2/NDF : 1337618.6/33

Left: 12386.599 $\pm$ 1.501

χ^2/NDF : 2861298.1/47

Left Out: 12292.583 $\pm$ 2.080

χ^2/NDF : 1502548.3/24

Right: 13845.074 $\pm$ 1.610

χ^2/NDF : 2835930.5/70

Right Out: 13915.429 $\pm$ 2.276

χ^2/NDF : 1496396.9/36

In: 13099.715 $\pm$ 1.571

χ^2/NDF : 2859067.4/56

Out: 13031.278 $\pm$ 1.535

χ^2/NDF : 3276033.1/61

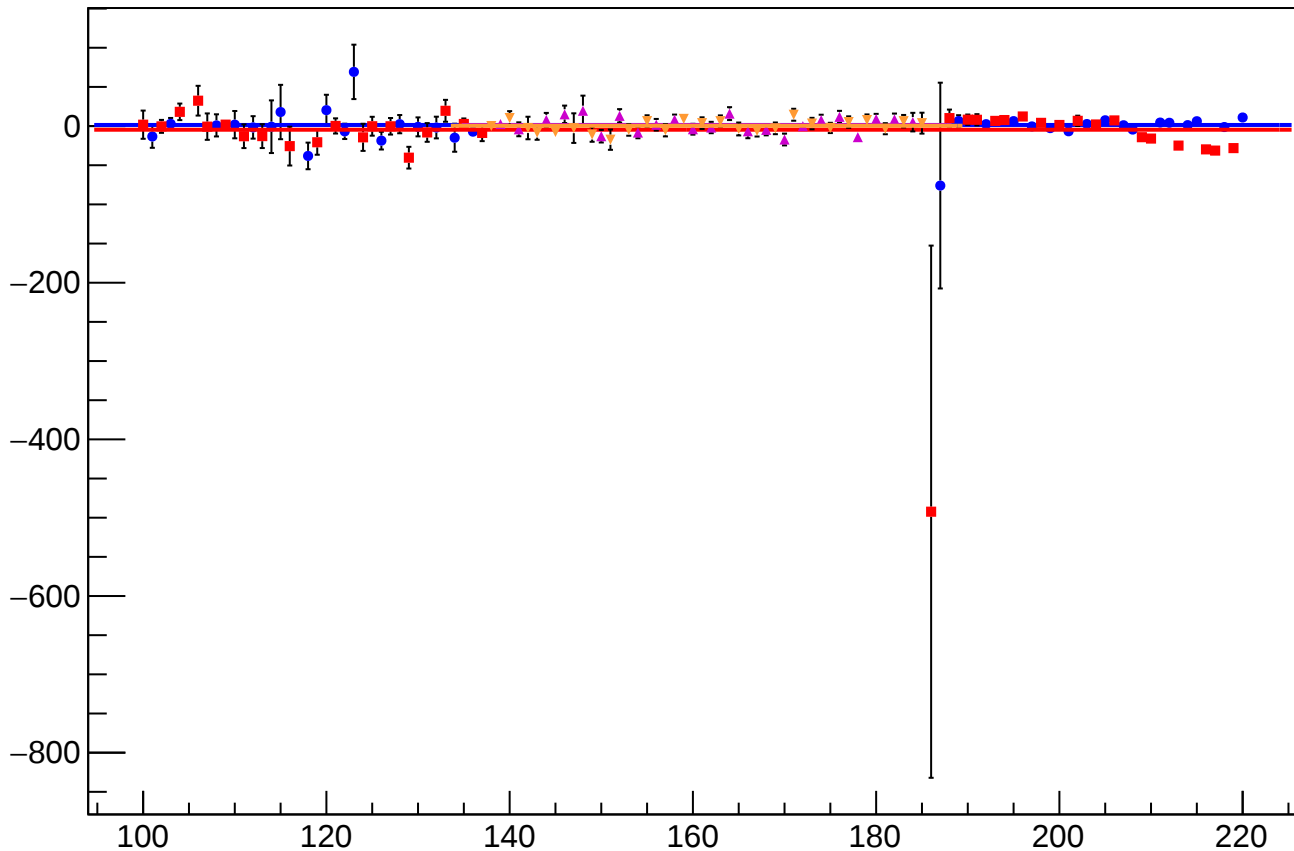
Left In: 12488.821 $\pm$ 2.169

χ^2/NDF : 1354485.4/22

All: 13064.704 $\pm$ 1.098

χ^2/NDF : 6136071.0/101

diff_bpm11Y_mean vs Slug, Sign Corrected



Right In: 1.420 ± 1.099 χ^2/NDF : 34.0/33

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

Right Out: -4.659 ± 1.109 χ^2/NDF : 177.2/36

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

Left: 0.859 ± 0.997 χ^2/NDF : 53.5/47

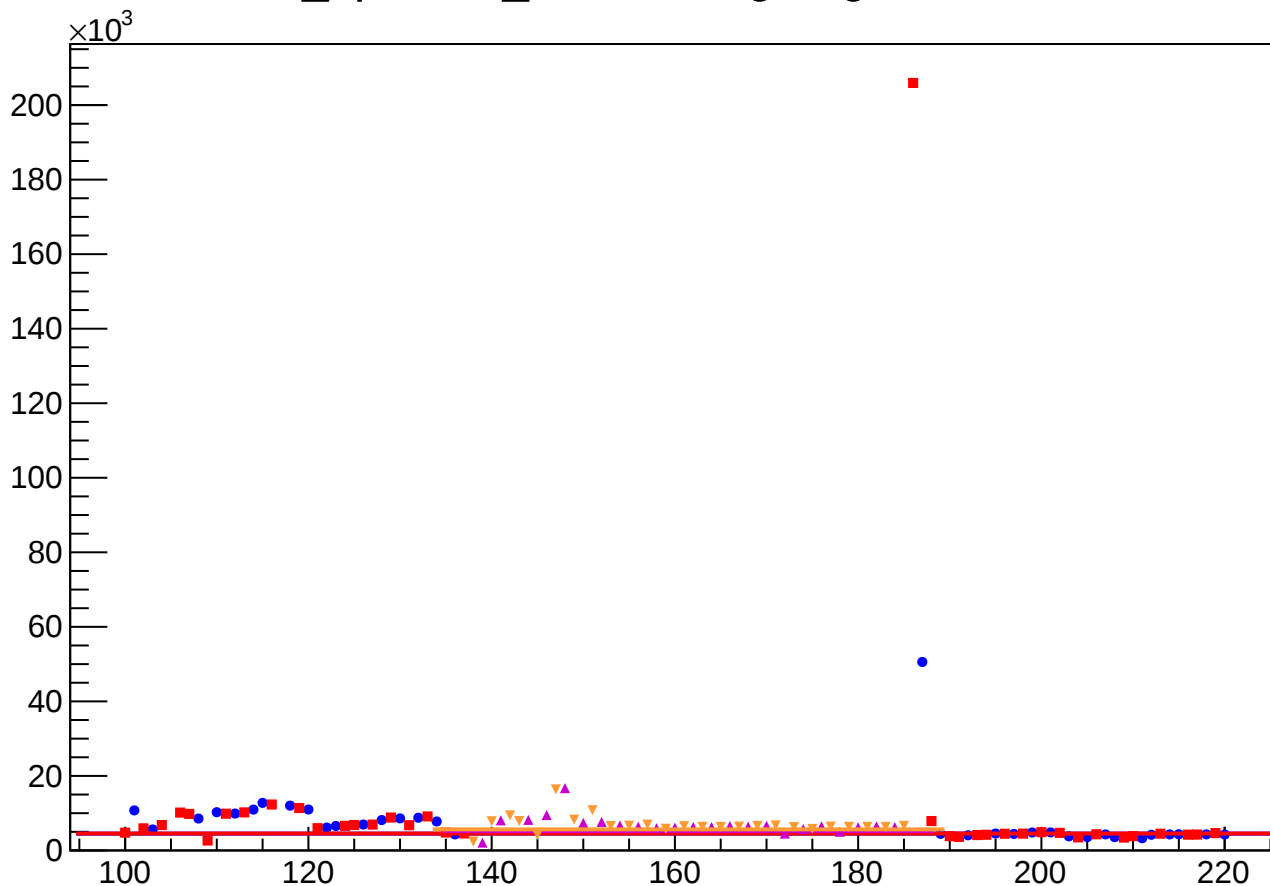
Right: -1.594 ± 0.781 χ^2/NDF : 226.4/70

In: 1.365 ± 0.861 χ^2/NDF : 68.0/56

Out: -2.764 ± 0.877 χ^2/NDF : 204.4/61

All: -0.661 ± 0.615 χ^2/NDF : 283.6/118

diff_bpm11Y_rms vs Slug, Sign Corrected



Right In: 4519.201 $\pm$ 0.777 χ^2/NDF : 3477385.9/33

Left Out: 5655.639 $\pm$ 1.014 χ^2/NDF : 4124124.3/24

Right Out: 4531.384 $\pm$ 0.784 χ^2/NDF : 3969008.5/36

Left In: 5180.743 $\pm$ 0.980 χ^2/NDF : 5350053.6/22

Left: 5409.966 $\pm$ 0.705 χ^2/NDF : 9587556.1/47

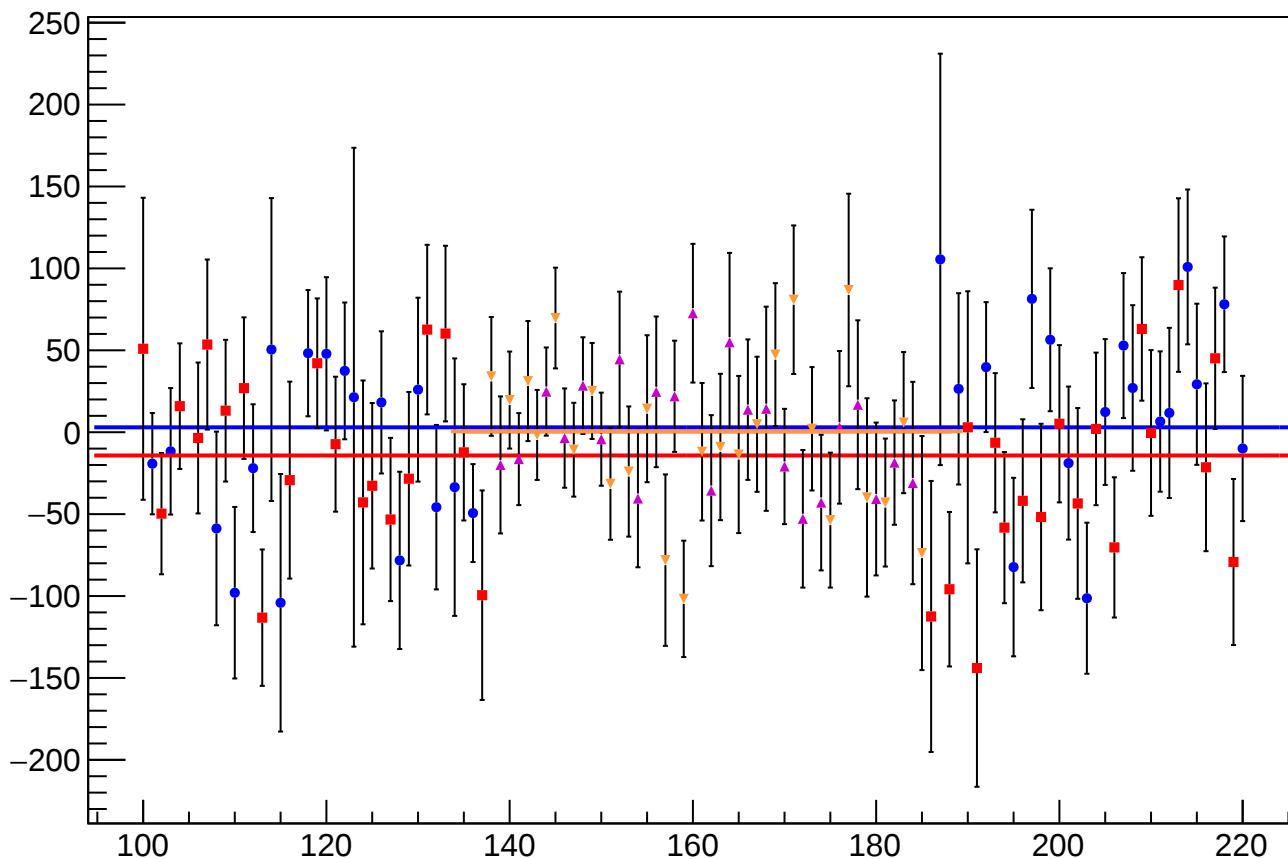
Right: 4525.242 $\pm$ 0.552 χ^2/NDF : 7446516.2/70

In: 4774.738 $\pm$ 0.609 χ^2/NDF : 9107184.8/56

Out: 4951.685 $\pm$ 0.620 χ^2/NDF : 8862231.6/61

All: 4861.592 $\pm$ 0.435 χ^2/NDF : 18010855.7/131

diff_bpm12X_mean vs Slug, Sign Corrected



Right In: 2.983 ± 8.080 $\chi^2/\text{NDF}: 40.4/33$

Left Out: 0.580 ± 7.691 $\chi^2/\text{NDF}: 31.0/24$

Right Out: -14.194 ± 8.064 $\chi^2/\text{NDF}: 41.9/36$

Left In: 0.565 ± 8.015 $\chi^2/\text{NDF}: 14.3/22$

Left: 0.572 ± 5.549 $\chi^2/\text{NDF}: 45.3/47$

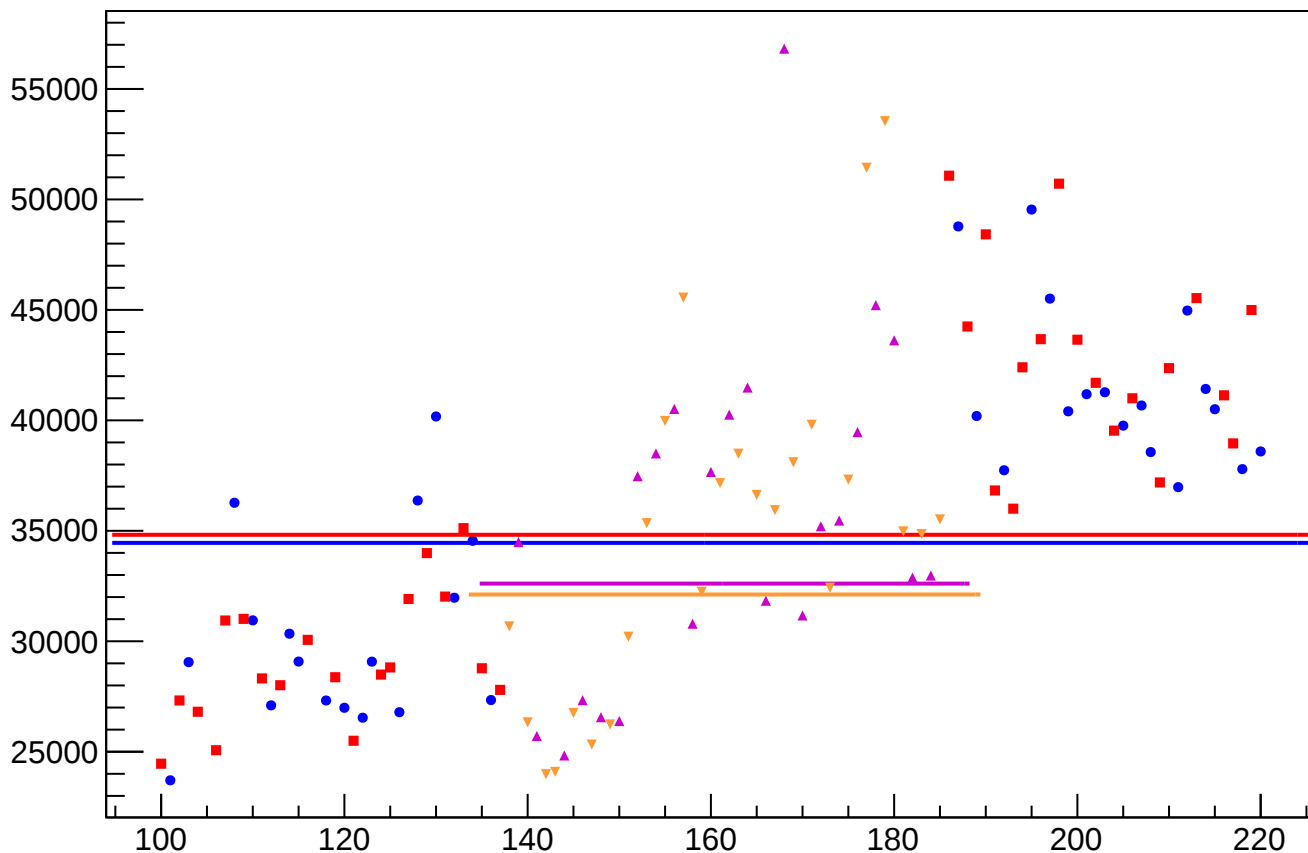
Right: -5.622 ± 5.708 $\chi^2/\text{NDF}: 84.6/70$

In: 1.764 ± 5.690 $\chi^2/\text{NDF}: 54.7/56$

Out: -6.457 ± 5.565 $\chi^2/\text{NDF}: 74.7/61$

All: -2.438 ± 3.979 $\chi^2/\text{NDF}: 130.4/118$

diff_bpm12X_rms vs Slug, Sign Corrected



Right In: 34453.704 $\pm$ 5.713

χ^2/NDF : 1465587.3/33

Left Out: 32117.184 $\pm$ 5.438

χ^2/NDF : 1536740.0/24

Right Out: 34819.587 $\pm$ 5.702

χ^2/NDF : 1606479.9/36

Left In: 32610.108 $\pm$ 5.667

χ^2/NDF : 1398475.8/22

Left: 32353.483 $\pm$ 3.924

χ^2/NDF : 2939154.5/47

Right: 34637.003 $\pm$ 4.036

χ^2/NDF : 3074121.6/70

In: 33524.398 $\pm$ 4.024

χ^2/NDF : 2916546.9/56

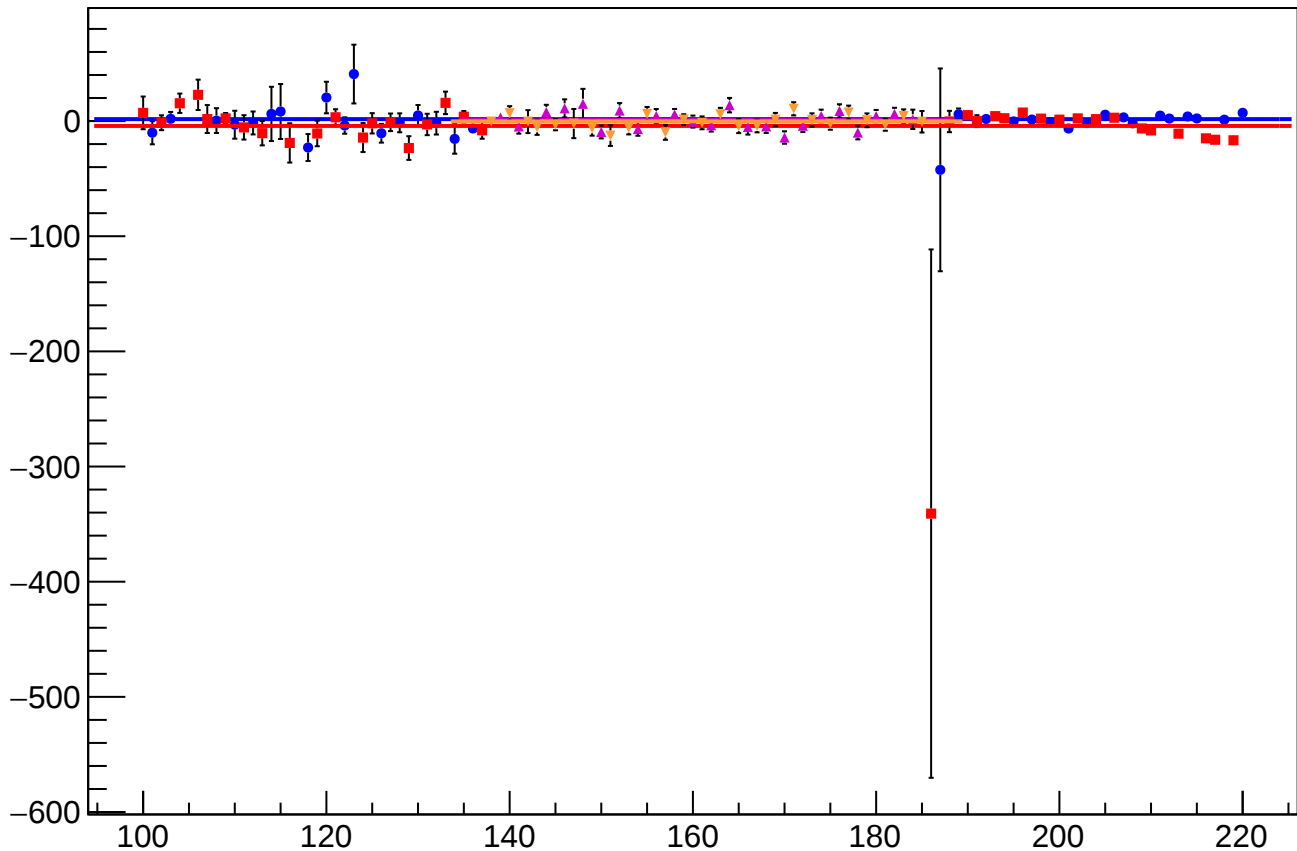
Out: 33404.317 $\pm$ 3.935

χ^2/NDF : 3260841.4/61

All: 33463.028 $\pm$ 2.813

χ^2/NDF : 6177843.5/100

diff_bpm12Y_mean vs Slug, Sign Corrected



Right In: 1.661 ± 0.625 $\chi^2/\text{NDF}: 45.0/33$

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

Right Out: -4.223 ± 0.656 $\chi^2/\text{NDF}: 167.8/36$

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

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

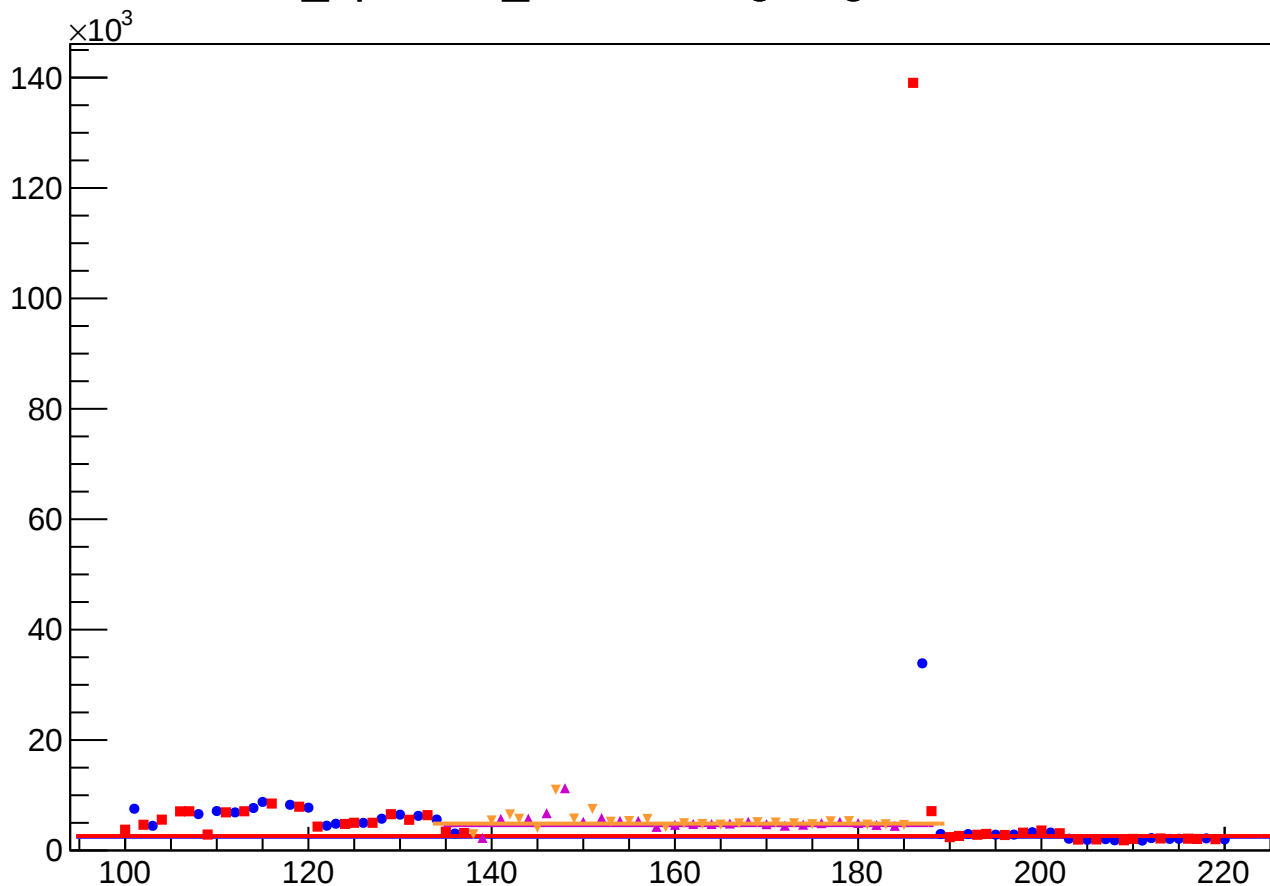
Right: -1.141 ± 0.453 $\chi^2/\text{NDF}: 255.0/70$

In: 1.494 ± 0.550 $\chi^2/\text{NDF}: 81.5/56$

Out: -3.278 ± 0.573 $\chi^2/\text{NDF}: 194.5/61$

All: -0.796 ± 0.397 $\chi^2/\text{NDF}: 312.1/118$

diff_bpm12Y_rms vs Slug, Sign Corrected



Right In: 2486.579 ± 0.442 $\chi^2/\text{NDF}: 5698156.3/33$

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

Right Out: 2607.600 ± 0.464 $\chi^2/\text{NDF}: 6199419.2/36$

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

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

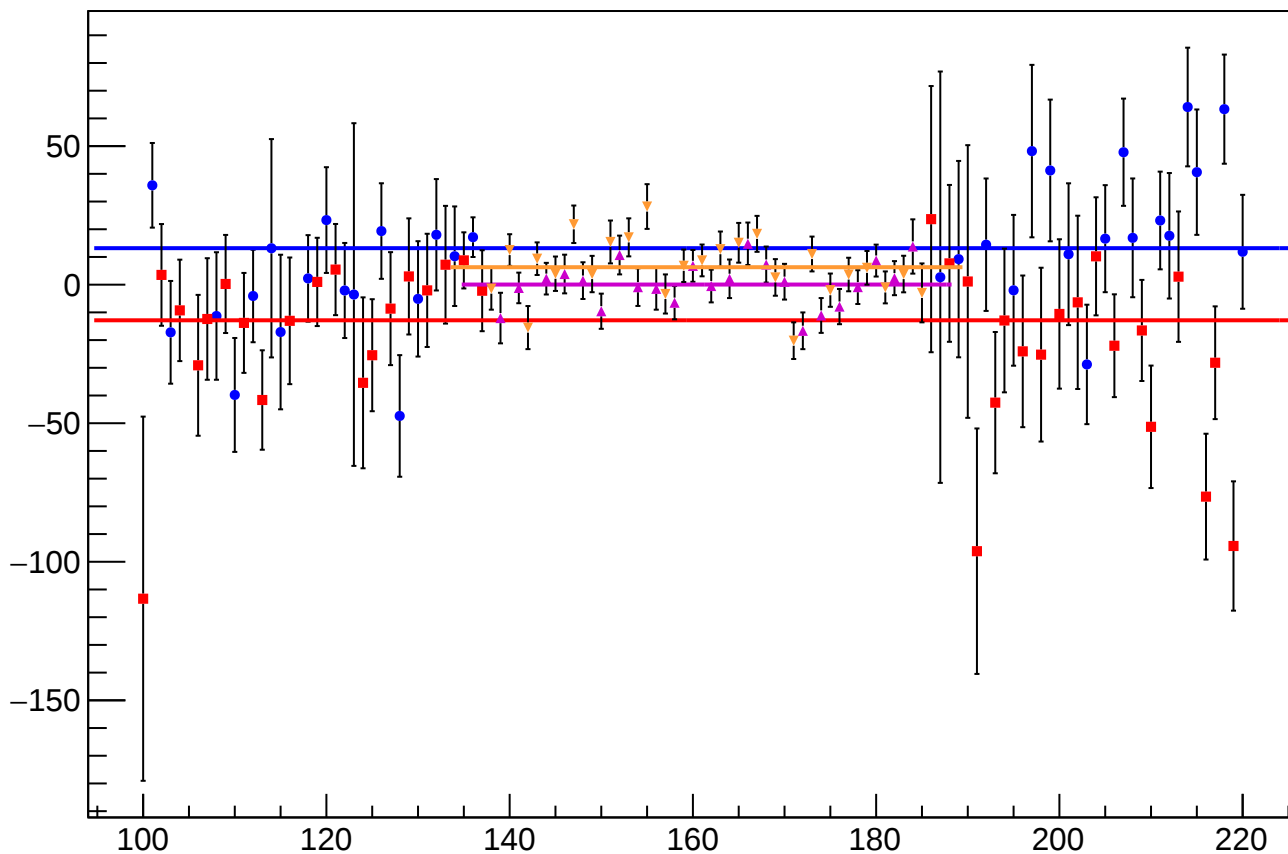
Right: 2544.209 ± 0.320 $\chi^2/\text{NDF}: 11933234.7/70$

In: 2962.564 ± 0.389 $\chi^2/\text{NDF}: 13276852.8/56$

Out: 3145.809 ± 0.405 $\chi^2/\text{NDF}: 13362087.3/61$

All: 3050.488 ± 0.280 $\chi^2/\text{NDF}: 26745525.8/100$

diff_bpm16X_mean vs Slug, Sign Corrected



Right In: 13.173 $\pm$ 3.290 χ^2/NDF : 49.3/33

Left Out: 6.302 $\pm$ 1.313 χ^2/NDF :56.7/24

Right Out: -12.856 $\pm$ 3.440 χ^2/NDF : 48.5/36

Left In: 0.044 $\pm$ 1.358 χ^2/NDF :30.0/22

Left: 3.279 $\pm$ 0.944 χ^2/NDF : 97.7/47

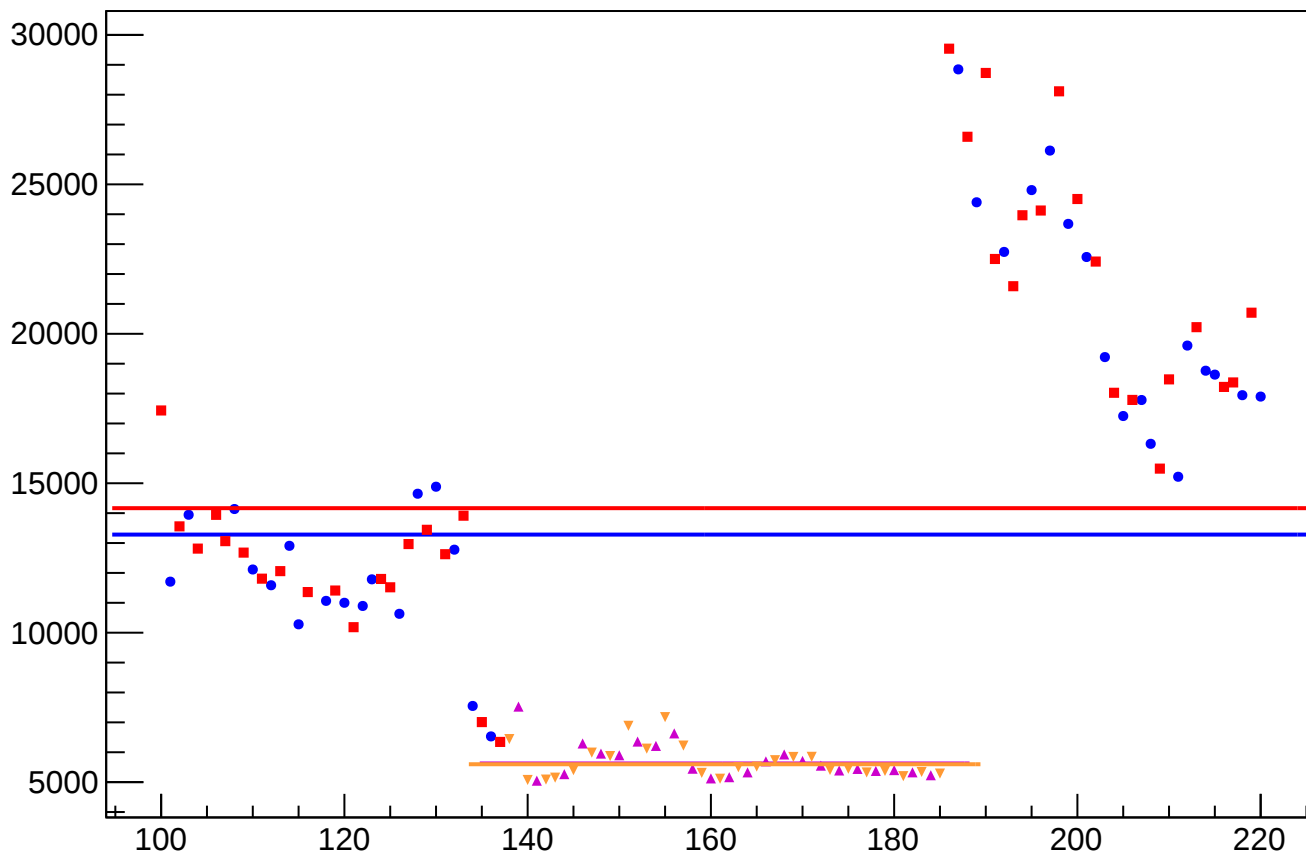
Right: 0.739 $\pm$ 2.378 χ^2/NDF : 127.7/70

In: 1.955 $\pm$ 1.255 χ^2/NDF :92.9/56

Out: 3.867 $\pm$ 1.226 χ^2/NDF :132.3/61

All: 2.933 $\pm$ 0.877 χ^2/NDF : 226.4/118

diff_bpm16X_rms vs Slug, Sign Corrected



Right In: 13282.410 $\pm$ 2.326 χ^2 /NDF: 5148897.7/33

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

Right Out: 14166.133 $\pm$ 2.432 χ^2 /NDF: 4998866.9/36

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

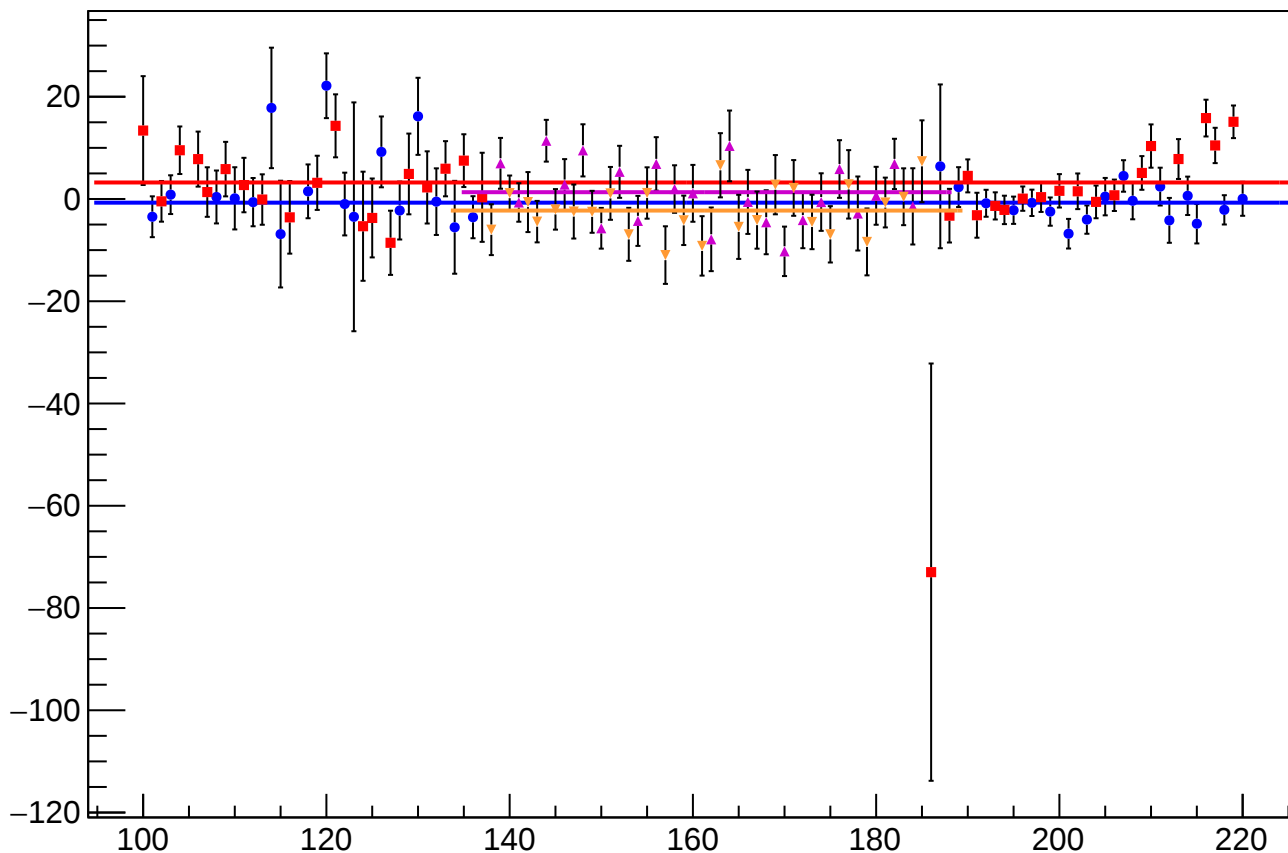
Right: 13704.573 $\pm$ 1.681 χ^2 /NDF: 10216707.3/70

In: 6739.596 $\pm$ 0.887 χ^2 /NDF: 14679712.1/56

Out: 6687.623 $\pm$ 0.867 χ^2 /NDF: 16111539.3/61

All: 6713.008 $\pm$ 0.620 χ^2 /NDF: 30793006.0/117

diff_bpm16Y_mean vs Slug, Sign Corrected



Right In: -0.720 ± 0.685 $\chi^2/\text{NDF}: 37.9/33$

Left Out: -2.262 ± 1.030 $\chi^2/\text{NDF}: 15.5/24$

Right Out: 3.229 ± 0.679 $\chi^2/\text{NDF}: 69.8/36$

Left In: 1.328 ± 1.082 $\chi^2/\text{NDF}: 30.6/22$

Left: -0.555 ± 0.746 $\chi^2/\text{NDF}: 51.9/47$

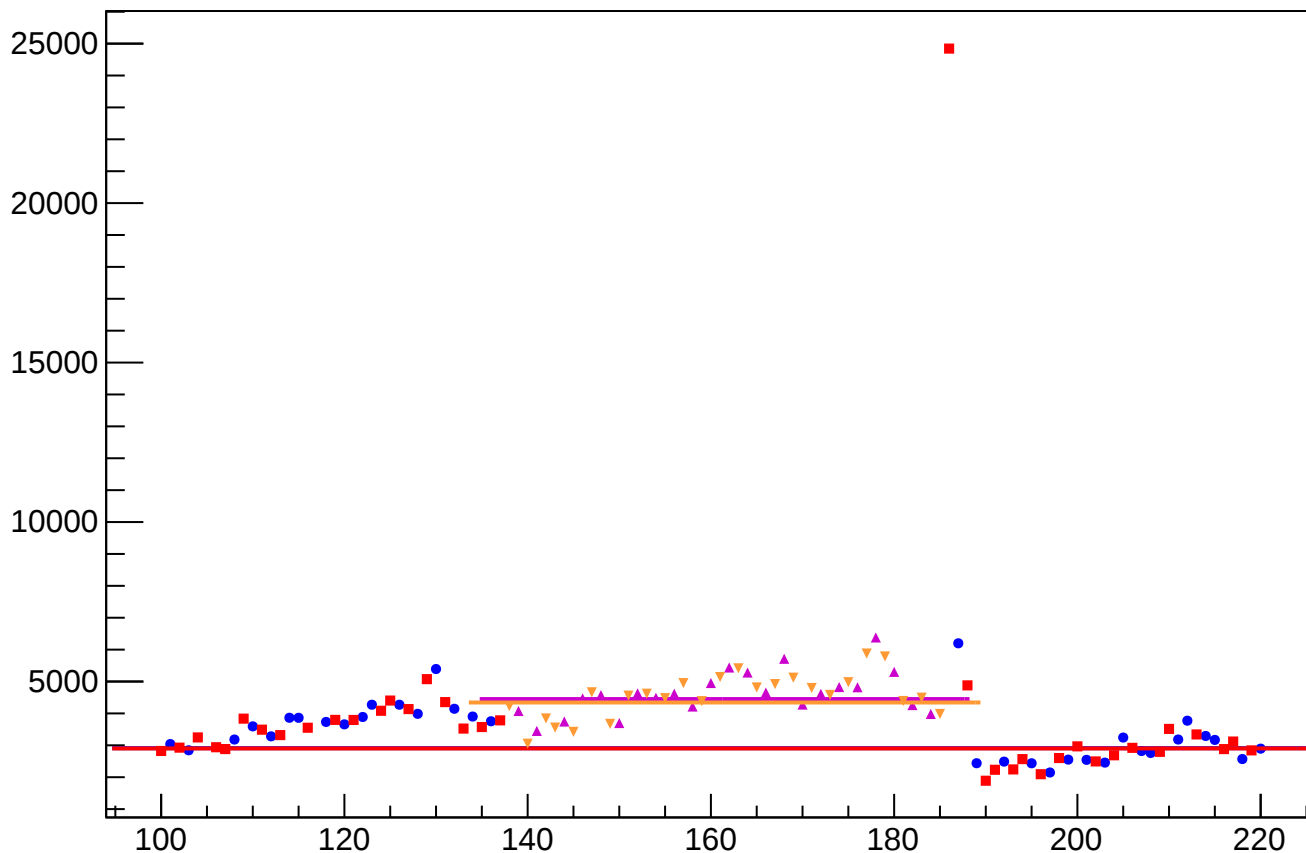
Right: 1.271 ± 0.483 $\chi^2/\text{NDF}: 124.4/70$

In: -0.134 ± 0.579 $\chi^2/\text{NDF}: 71.1/56$

Out: 1.564 ± 0.567 $\chi^2/\text{NDF}: 105.1/61$

All: 0.733 ± 0.405 $\chi^2/\text{NDF}: 180.5/118$

diff_bpm16Y_rms vs Slug, Sign Corrected



Right In: 2909.543+/-0.485 χ^2/NDF : 1446494.4/33

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

Right Out: 2902.143+/-0.480 χ^2/NDF : 2346922.4/36

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

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

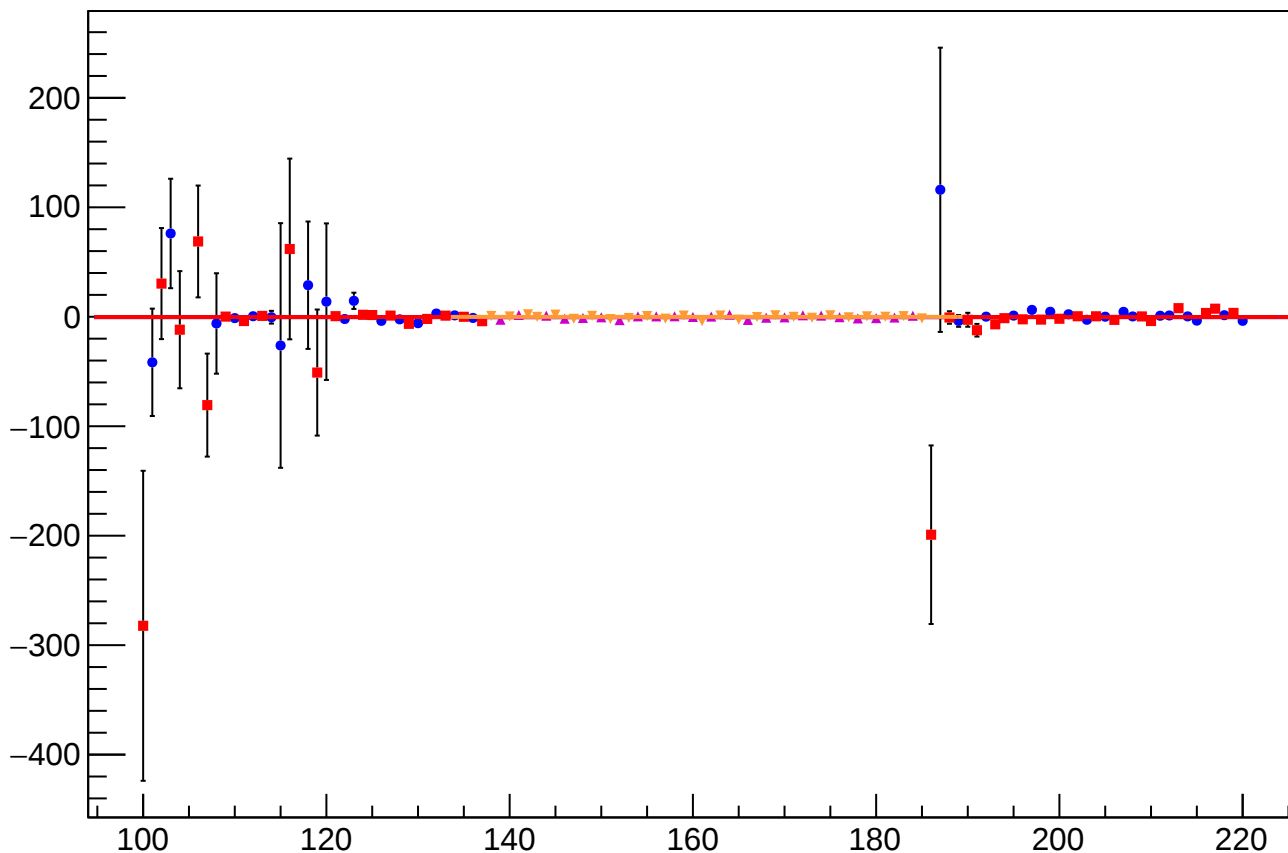
Right: 2905.811+/-0.341 χ^2/NDF : 3793534.3/70

In: 3350.617+/-0.409 χ^2/NDF : 5032879.5/56

Out: 3338.826+/-0.401 χ^2/NDF : 6065142.3/61

All: 3344.600+/-0.286 χ^2/NDF : 11098445.0/111

diff_bpm1p02bX_mean vs Slug, Sign Corrected



Right In: -0.320 ± 0.505 χ^2/NDF : 36.3/33

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

Right Out: -0.269 ± 0.513 χ^2/NDF : 62.0/36

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

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

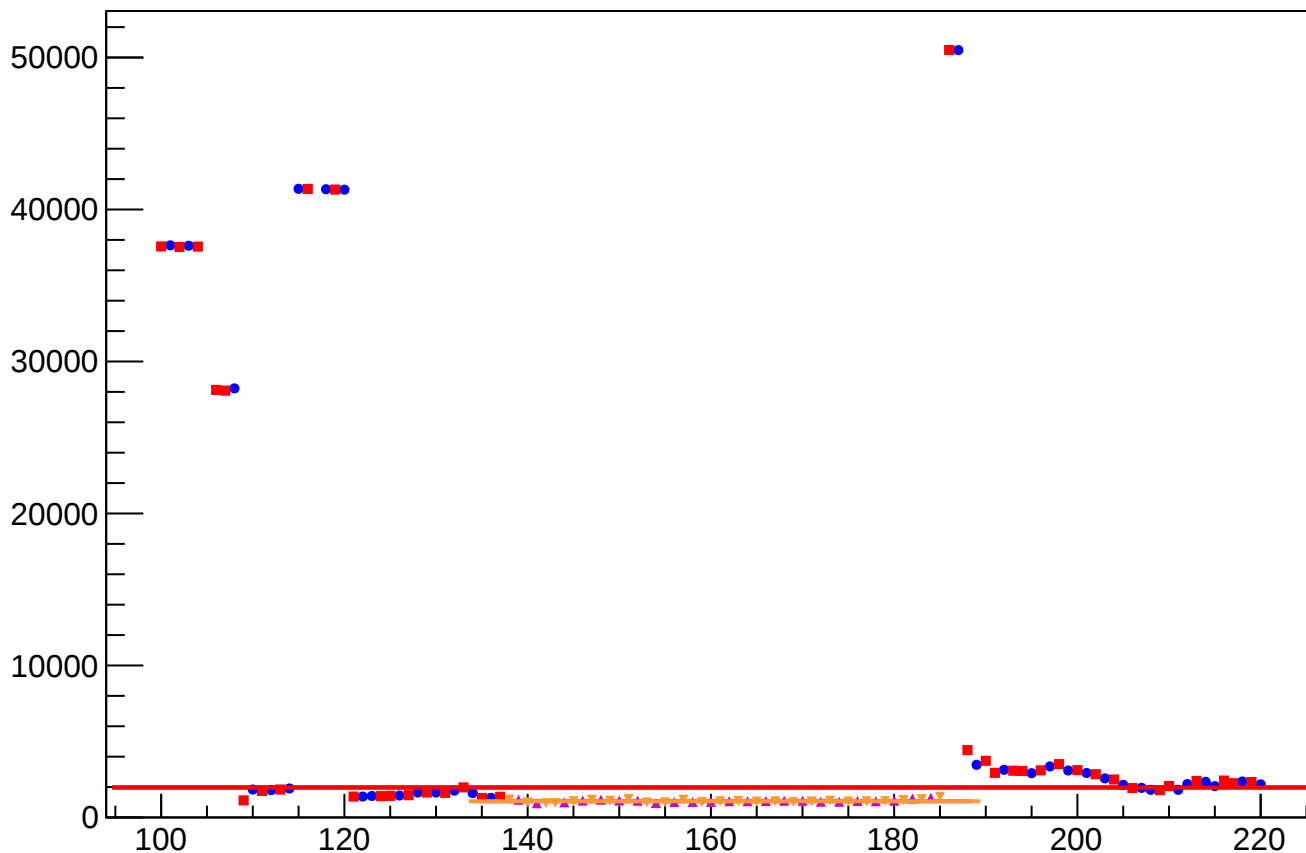
Right: -0.295 ± 0.360 χ^2/NDF : 98.3/70

In: -0.272 ± 0.229 χ^2/NDF : 63.5/56

Out: -0.125 ± 0.224 χ^2/NDF : 96.6/61

All: -0.197 ± 0.160 χ^2/NDF : 160.3/118

diff_bpm1p02bX_rms vs Slug, Sign Corrected



Right In: 1976.880+/-0.357 χ^2/NDF : 7063232.1/33

Left Out: 1064.701+/-0.176 χ^2/NDF : 186511.5/24

Right Out: 1965.921+/-0.362 χ^2/NDF : 8539140.4/36

Left In: 1066.255+/-0.182 χ^2/NDF : 164232.1/22

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

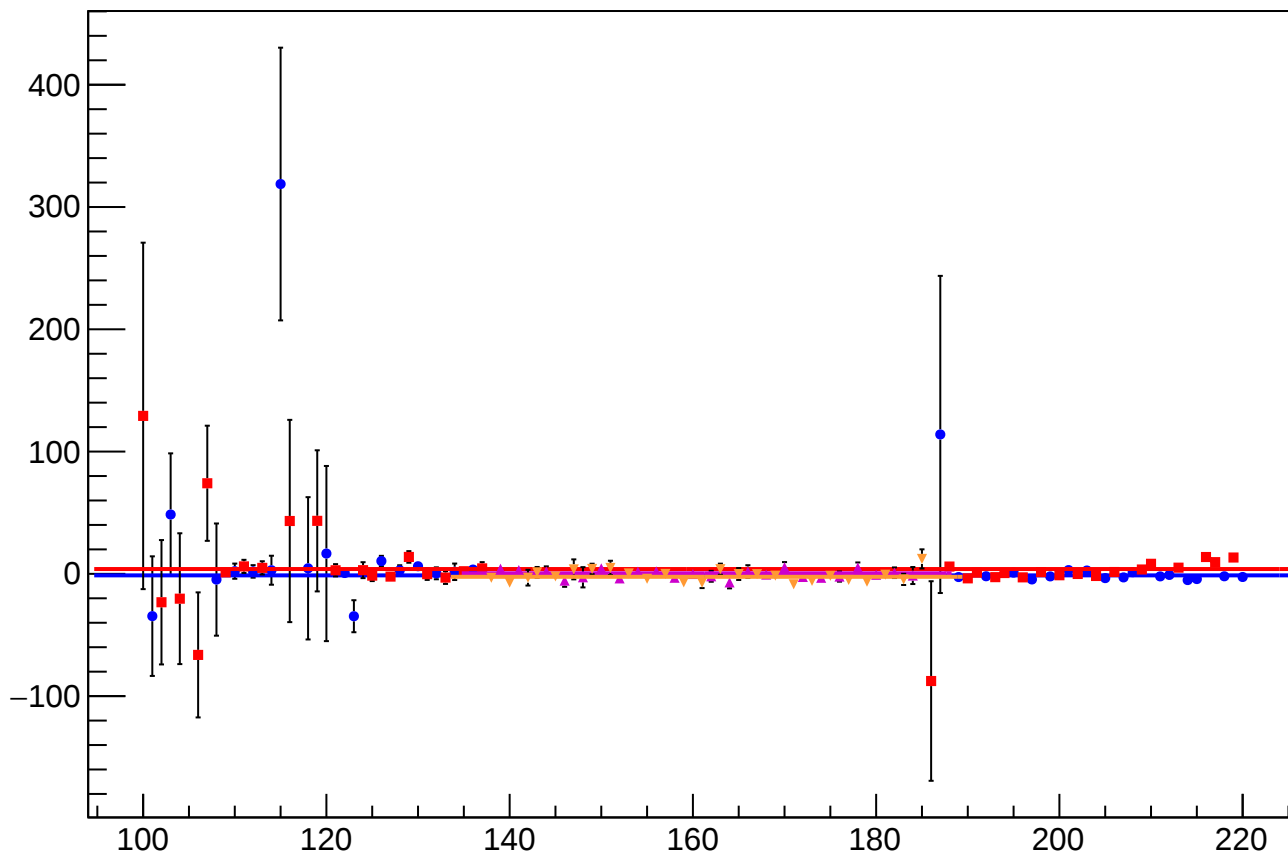
Right: 1971.479+/-0.254 χ^2/NDF : 15602836.0/70

In: 1253.355+/-0.162 χ^2/NDF : 12388020.4/56

Out: 1236.823+/-0.158 χ^2/NDF : 13727682.9/61

All: 1244.905+/-0.113 χ^2/NDF : 26121028.6/122

diff_bpm1p02bY_mean vs Slug, Sign Corrected



Right In: -1.245 $\pm$ 0.424 χ^2/NDF : 62.3/33

Left Out: -2.422 $\pm$ 0.811 χ^2/NDF :21.2/24

Right Out: 3.937 $\pm$ 0.446 χ^2/NDF : 148.6/36

Left In: 0.468 $\pm$ 0.843 χ^2/NDF :15.5/22

Left: -1.033 $\pm$ 0.584 χ^2/NDF : 42.8/47

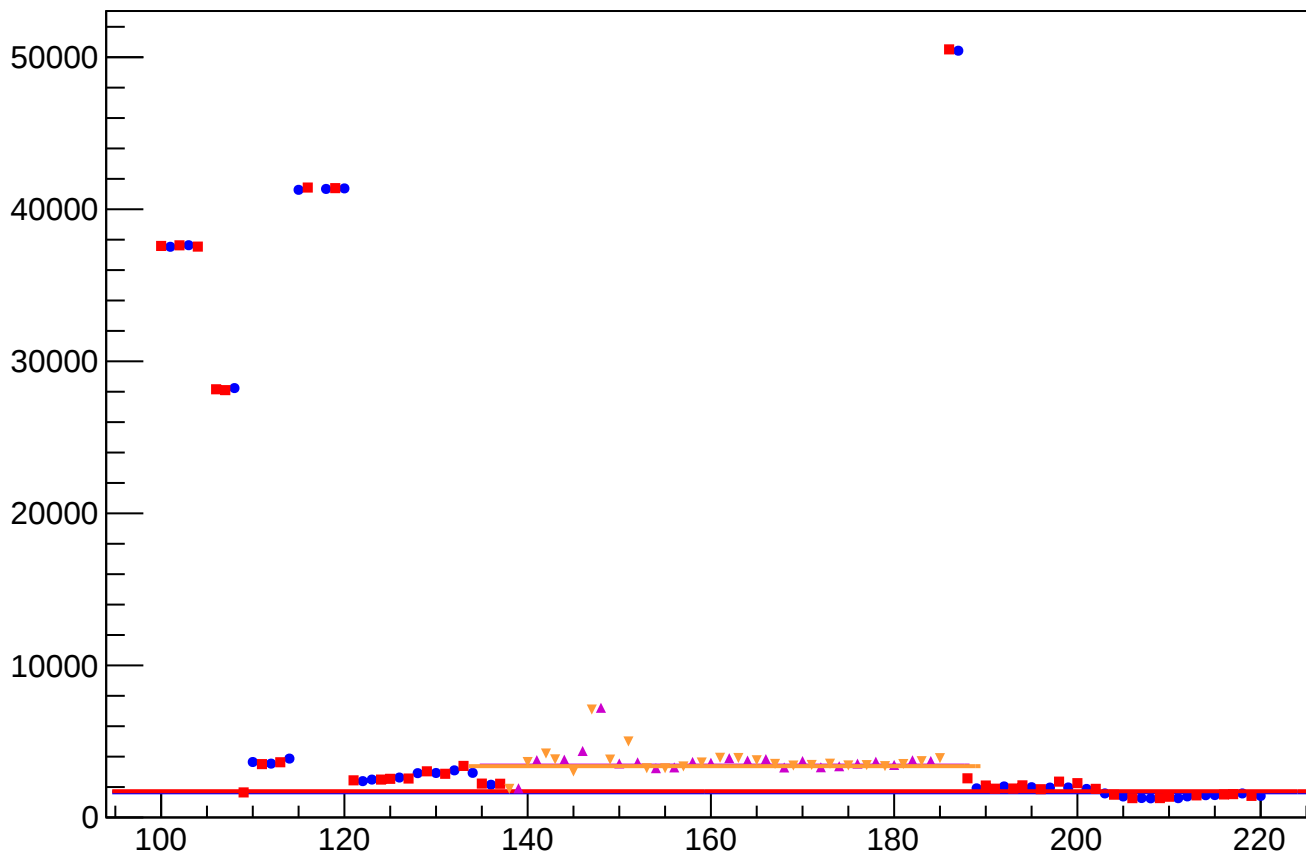
Right: 1.214 $\pm$ 0.307 χ^2/NDF : 281.9/70

In: -0.900 $\pm$ 0.379 χ^2/NDF :81.1/56

Out: 2.460 $\pm$ 0.391 χ^2/NDF :217.1/61

All: 0.727 $\pm$ 0.272 χ^2/NDF : 336.3/118

diff_bpm1p02bY_rms vs Slug, Sign Corrected



Right In: 1652.763 ± 0.300 $\chi^2/\text{NDF}: 7156516.3/33$

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

Right Out: 1725.312 ± 0.315 $\chi^2/\text{NDF}: 7696120.8/36$

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

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

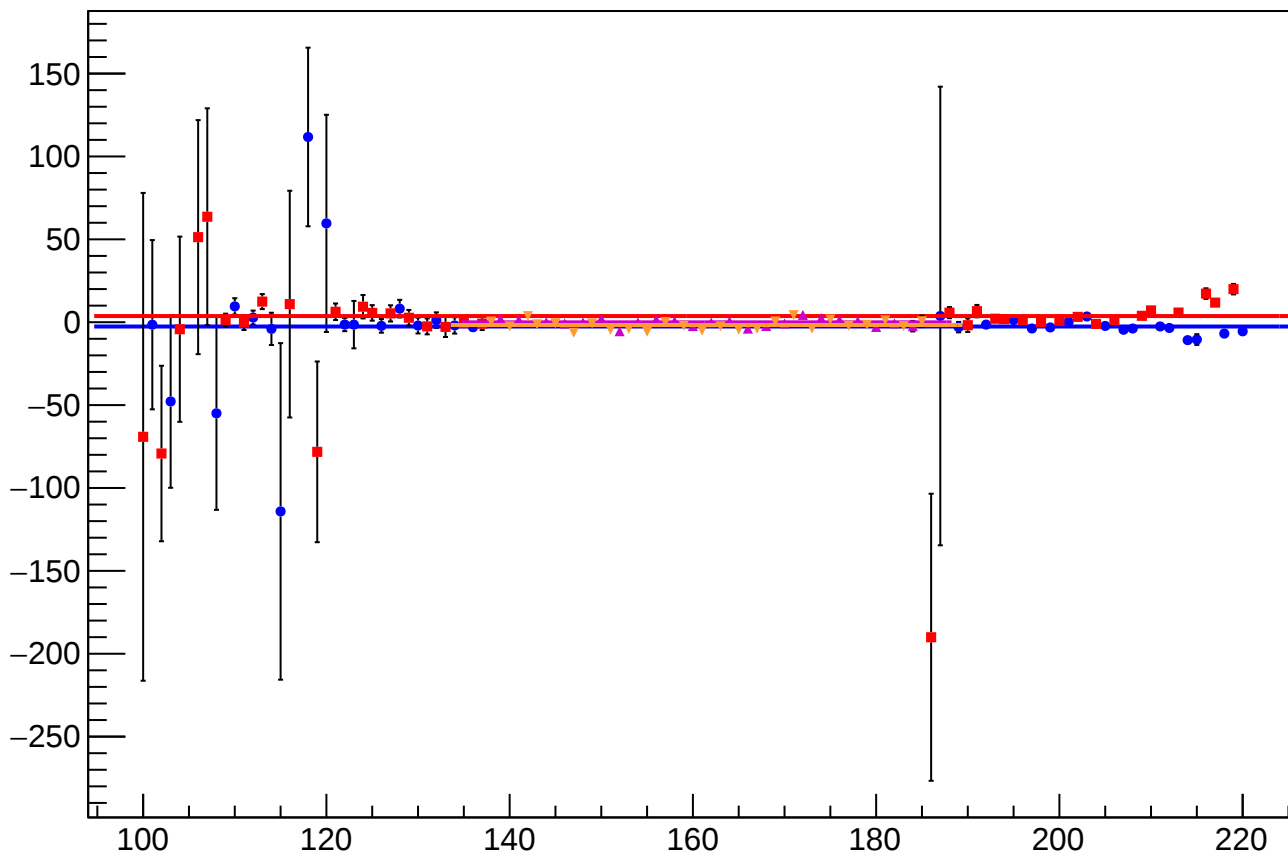
Right: 1687.194 ± 0.217 $\chi^2/\text{NDF}: 14880458.5/70$

In: 2007.716 ± 0.268 $\chi^2/\text{NDF}: 15545498.5/56$

Out: 2108.056 ± 0.276 $\chi^2/\text{NDF}: 15697501.7/61$

All: 2056.314 ± 0.192 $\chi^2/\text{NDF}: 31311038.6/117$

diff_bpm1p03aX_mean vs Slug, Sign Corrected



Right In: -2.590 $\pm$ 0.544 χ^2/NDF : 52.2/33

Left Out: -1.672 $\pm$ 0.388 χ^2/NDF : 45.7/24

Right Out: 3.721 $\pm$ 0.567 χ^2/NDF : 92.3/36

Left In: -0.072 $\pm$ 0.401 χ^2/NDF : 28.2/22

Left: -0.898 $\pm$ 0.279 χ^2/NDF : 82.1/47

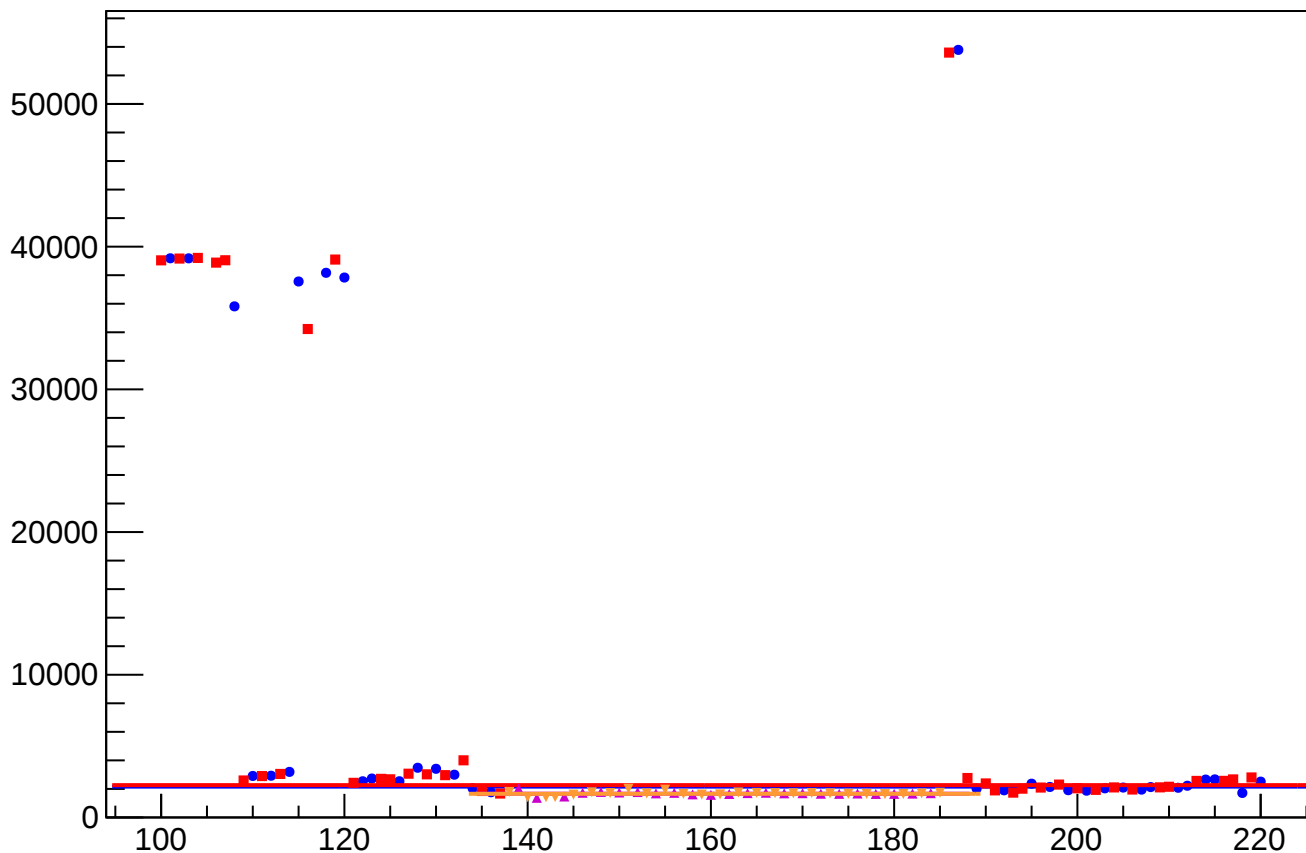
Right: 0.431 $\pm$ 0.393 χ^2/NDF : 208.9/70

In: -0.959 $\pm$ 0.323 χ^2/NDF : 94.3/56

Out: 0.046 $\pm$ 0.320 χ^2/NDF : 199.5/61

All: -0.452 $\pm$ 0.227 χ^2/NDF : 298.7/118

diff_bpm1p03aX_rms vs Slug, Sign Corrected



Right In: 2161.686 $\pm$ 0.385 χ^2 /NDF: 5688262.3/33

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

Right Out: 2265.082 $\pm$ 0.401 χ^2 /NDF: 6219201.2/36

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

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

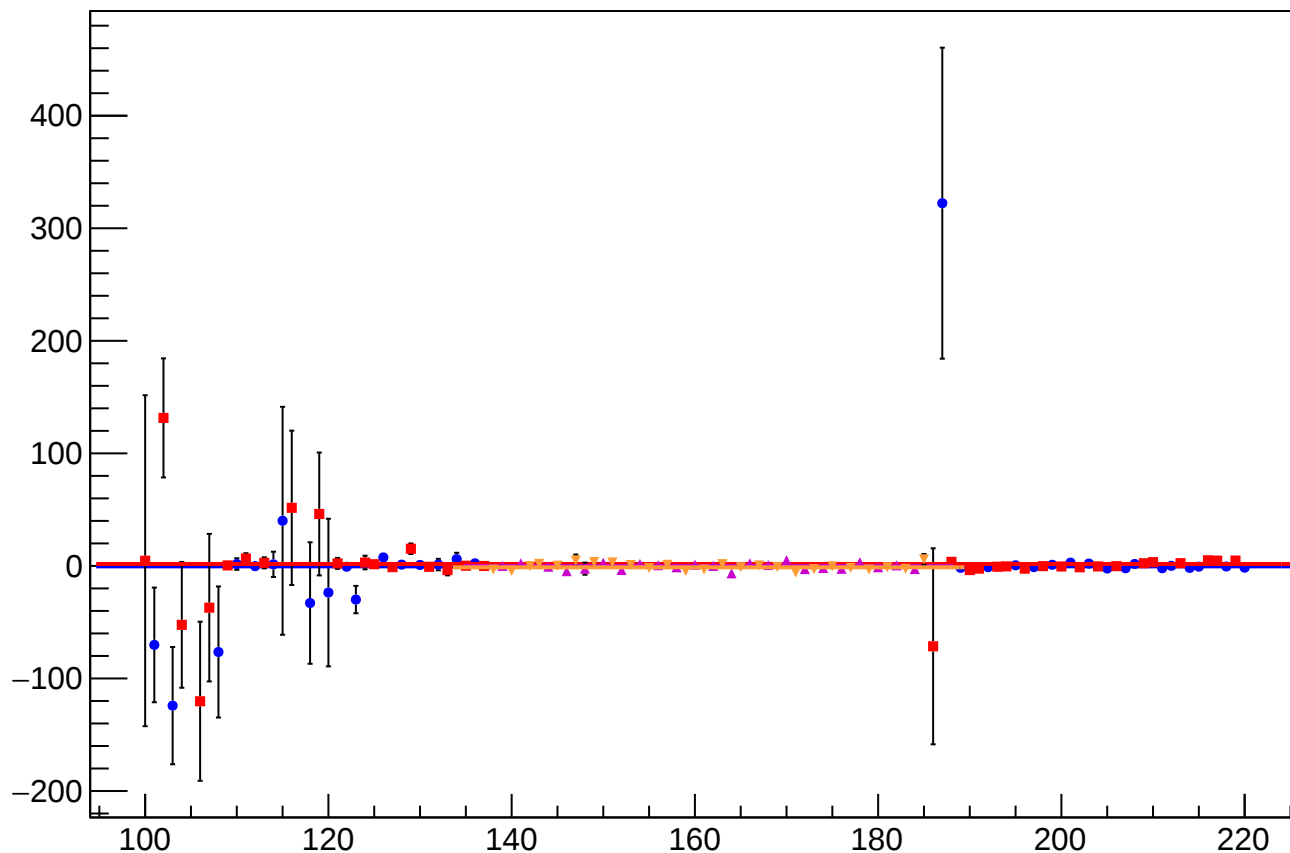
Right: 2211.184 $\pm$ 0.278 χ^2 /NDF: 11942080.3/70

In: 1839.095 $\pm$ 0.228 χ^2 /NDF: 6953881.0/56

Out: 1851.309 $\pm$ 0.227 χ^2 /NDF: 8003581.0/61

All: 1845.248 $\pm$ 0.161 χ^2 /NDF: 14958904.8/1

diff_bpm1p03aY_mean vs Slug, Sign Corrected



Right In: -0.389 ± 0.353 $\chi^2/\text{NDF}: 46.1/33$

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

Right Out: 1.705 ± 0.361 $\chi^2/\text{NDF}: 71.2/36$

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

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

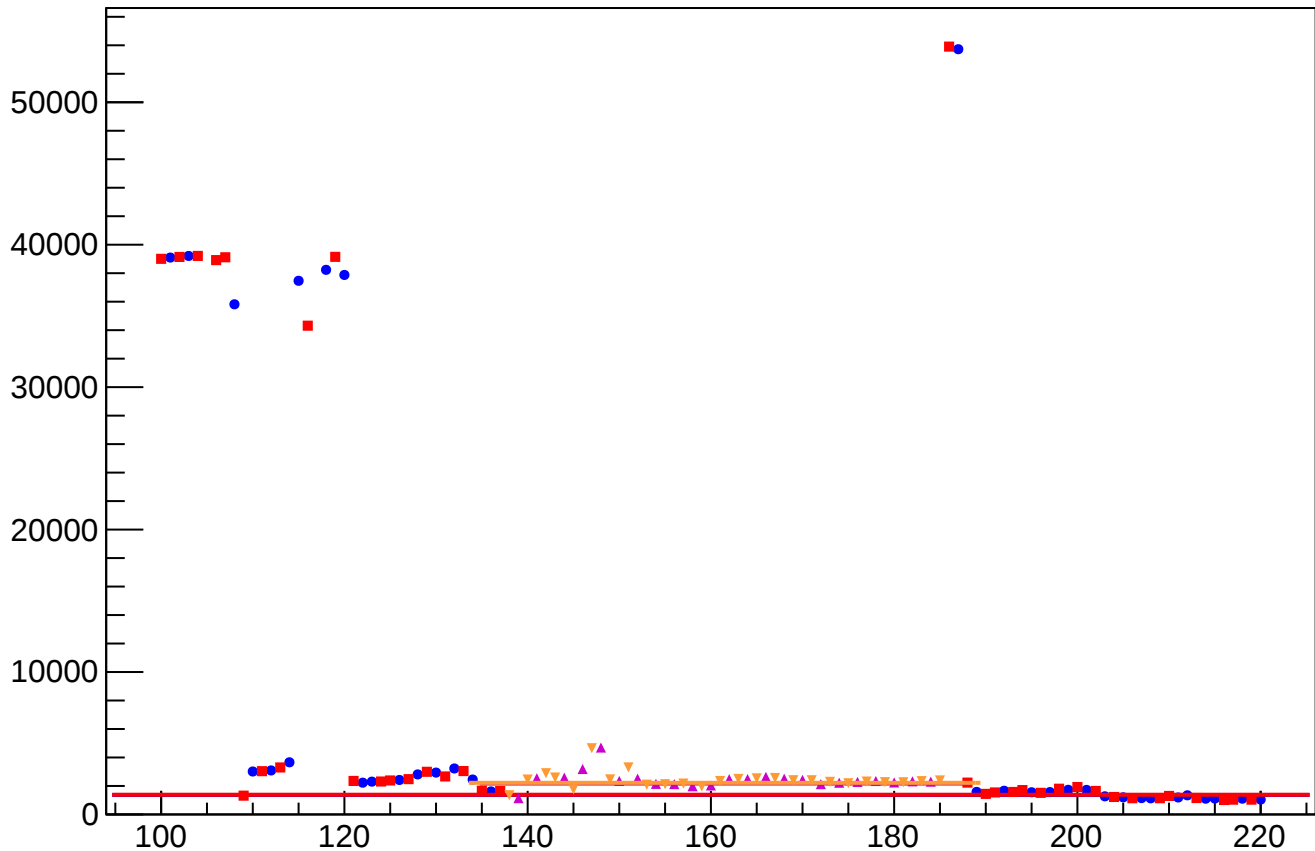
Right: 0.635 ± 0.253 $\chi^2/\text{NDF}: 134.5/70$

In: -0.302 ± 0.296 $\chi^2/\text{NDF}: 65.6/56$

Out: 0.780 ± 0.299 $\chi^2/\text{NDF}: 113.9/61$

All: 0.232 ± 0.210 $\chi^2/\text{NDF}: 186.2/118$

diff_bpm1p03aY_rms vs Slug, Sign Corrected



Right In: 1368.783 $\pm$ 0.250 χ^2 /NDF: 7563986.0/33

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

Right Out: 1382.509 $\pm$ 0.255 χ^2 /NDF: 8360163.7/36

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

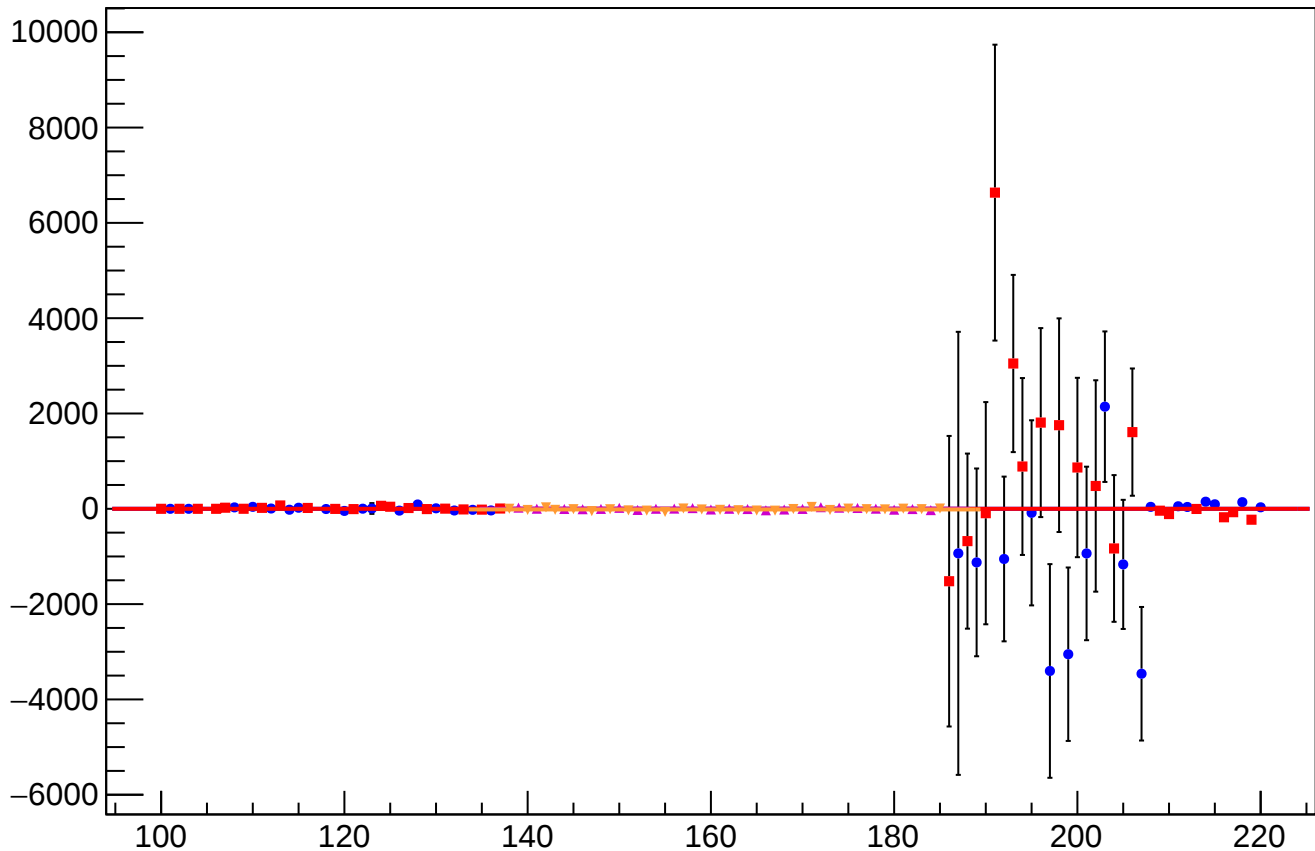
Right: 1375.495 $\pm$ 0.179 χ^2 /NDF: 15925624.8/70

In: 1608.156 $\pm$ 0.209 χ^2 /NDF:12607292.7/56

Out: 1645.424 $\pm$ 0.212 χ^2 /NDF:13165059.6/61

All: 1626.572 $\pm$ 0.149 χ^2 /NDF: 25788025.9/131

diff_cav4bX_mean vs Slug, Sign Corrected



Right In: 0.013 ± 0.017 $\chi^2/\text{NDF}: 57.7/33$

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

Right Out: -0.003 ± 0.016 $\chi^2/\text{NDF}: 66.0/36$

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

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

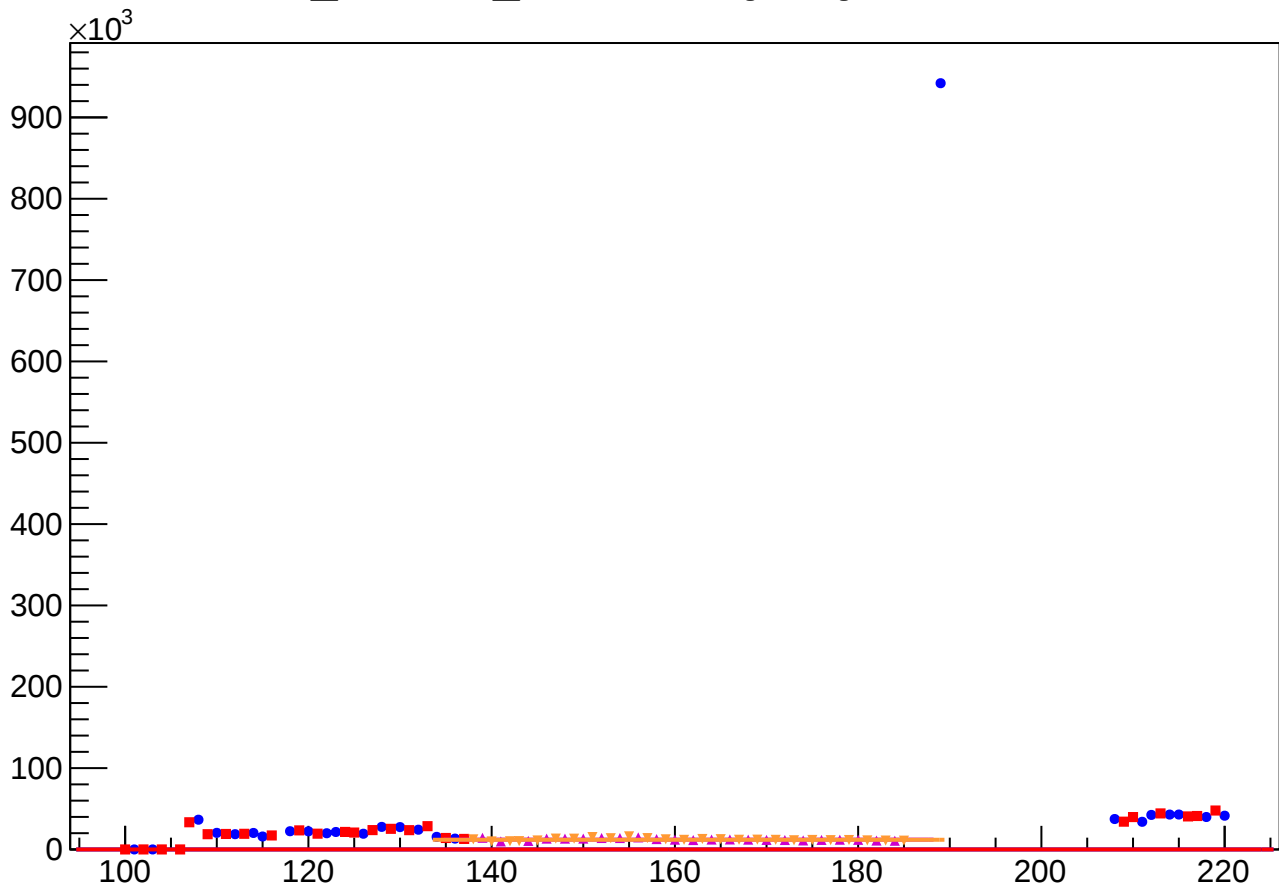
Right: 0.004 ± 0.012 $\chi^2/\text{NDF}: 124.2/70$

In: 0.013 ± 0.017 $\chi^2/\text{NDF}: 86.7/56$

Out: -0.004 ± 0.016 $\chi^2/\text{NDF}: 147.8/61$

All: 0.004 ± 0.012 $\chi^2/\text{NDF}: 235.1/118$

diff_cav4bX_rms vs Slug, Sign Corrected



Right In: 18.680 $\pm$ 0.012 χ^2 /NDF: 21333115.8/24

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

Right Out: 18.339 $\pm$ 0.011 χ^2 /NDF: 19870002.7/24

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

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

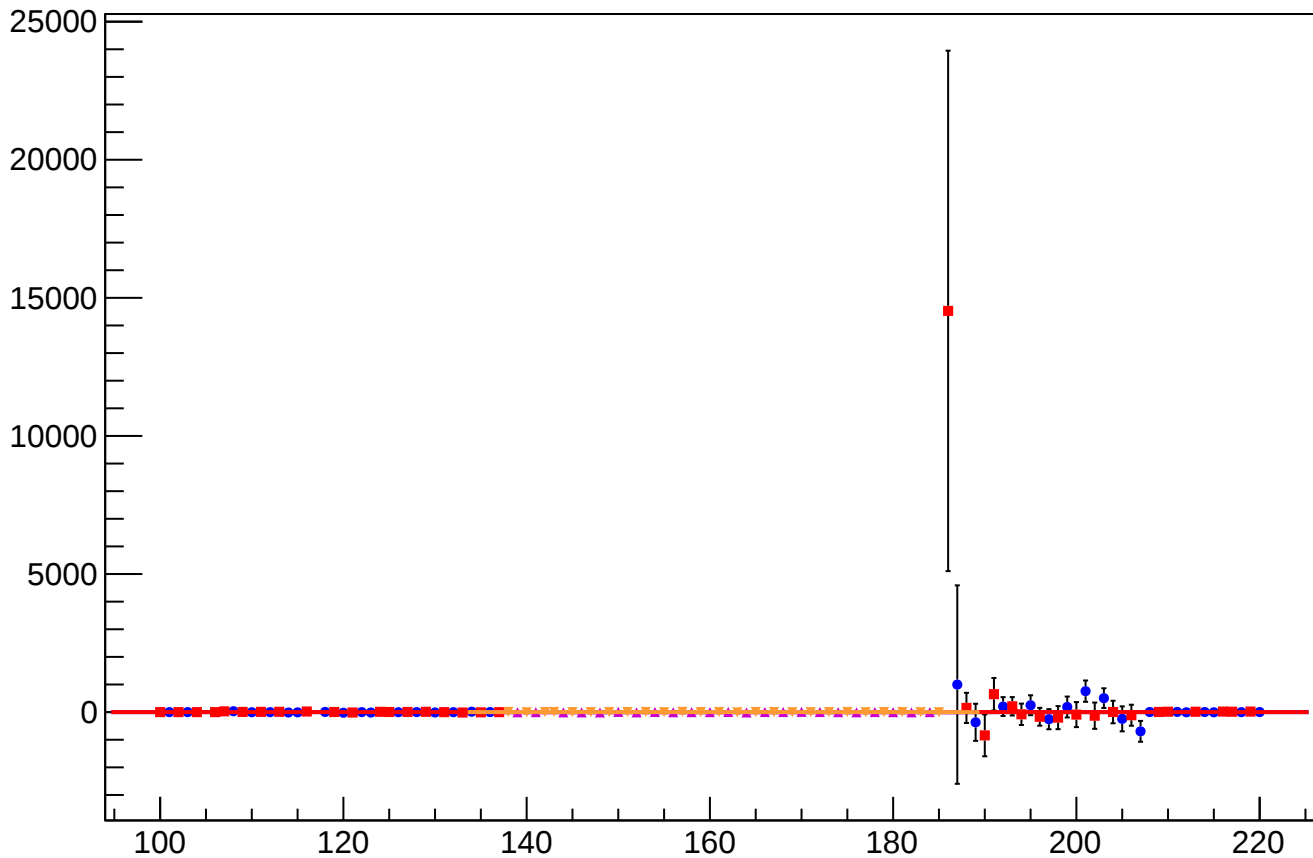
Right: 18.496 $\pm$ 0.008 χ^2 /NDF: 41203534.3/49

In: 19.105 $\pm$ 0.012 χ^2 /NDF: 55815216.8/47

Out: 18.731 $\pm$ 0.011 χ^2 /NDF: 56411680.2/49

All: 18.904 $\pm$ 0.008 χ^2 /NDF: 112227399.1/97

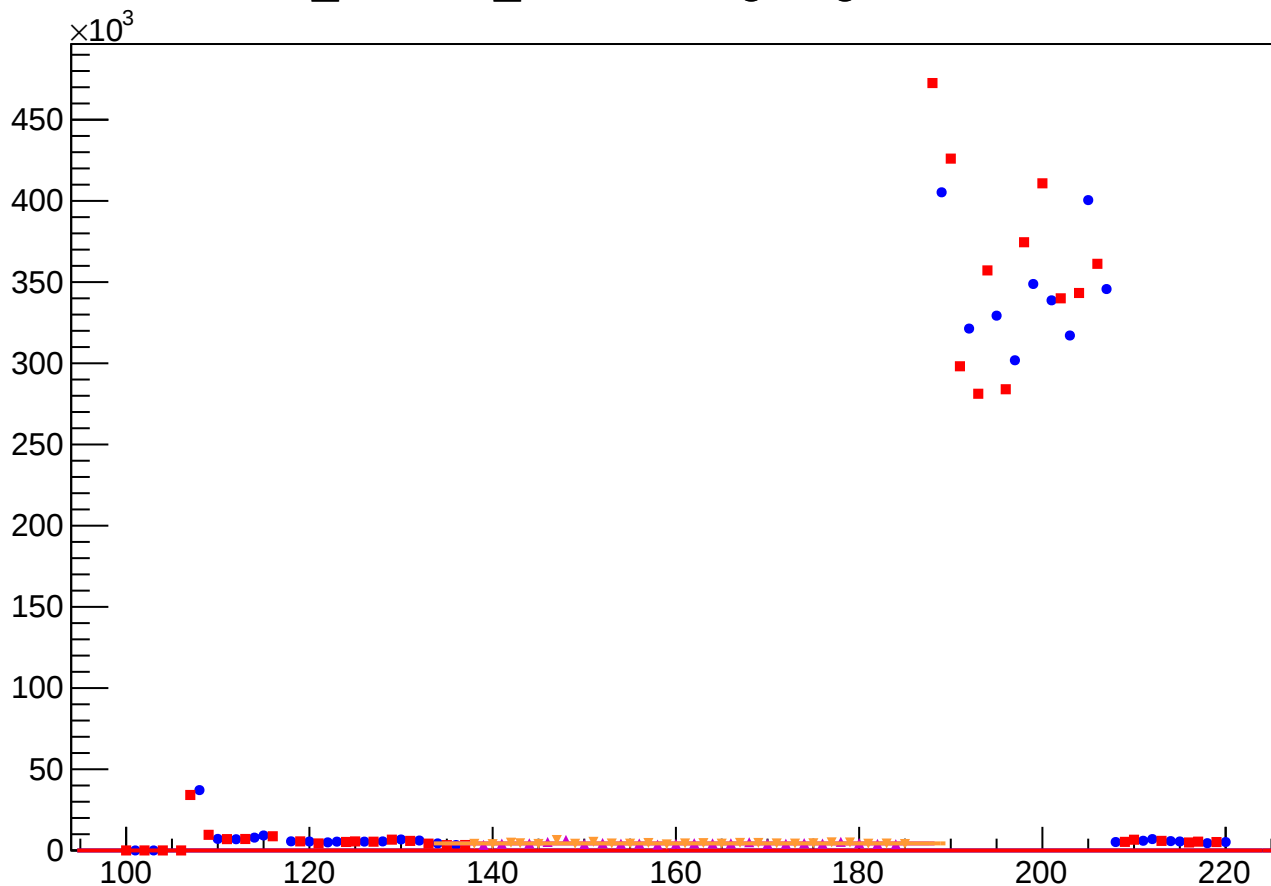
diff_cav4bY_mean vs Slug, Sign Corrected



Right In: 0.001 $\pm$ 0.009 χ^2 /NDF: 27.7/33
Left Out: 1.649 $\pm$ 1.022 χ^2 /NDF:18.4/24
Right Out: -0.014 $\pm$ 0.009 χ^2 /NDF: 60.9/36
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: 90.0/70
In: 0.001 $\pm$ 0.009 χ^2 /NDF:64.1/56
Out: -0.014 $\pm$ 0.009 χ^2 /NDF:81.9/61
All: -0.007 $\pm$ 0.006 χ^2 /NDF: 147.4/118

diff_cav4bY_rms vs Slug, Sign Corrected



Right In: 10.018+/-0.007 χ^2/NDF : 34735717.7/32

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

Right Out: 9.915+/-0.006 χ^2/NDF : 34640091.4/35

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

Left: 4335.639+/-0.518 χ^2/NDF : 899200.9/47

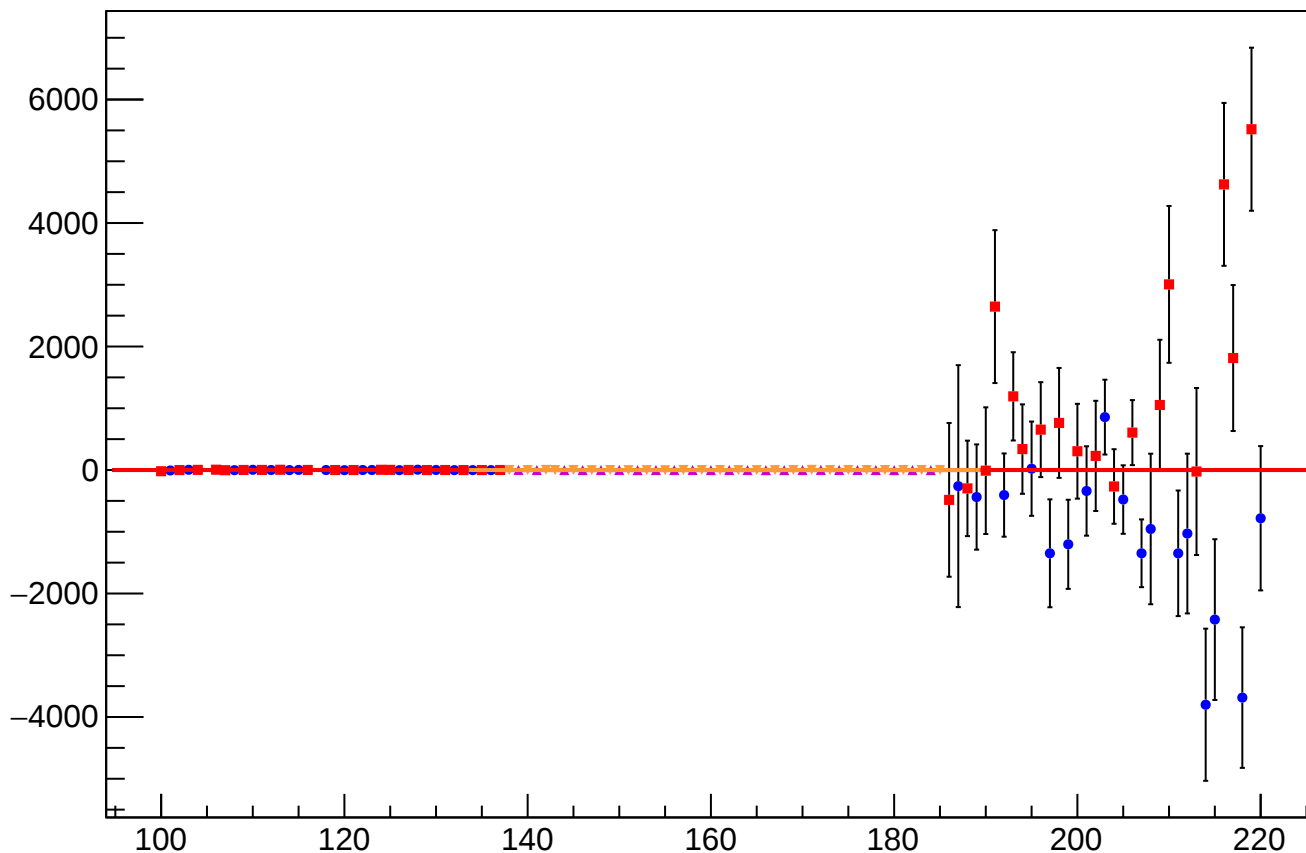
Right: 9.964+/-0.004 χ^2/NDF : 69375942.6/68

In: 10.350+/-0.007 χ^2/NDF :69066217.3/55

Out: 10.226+/-0.006 χ^2/NDF :71068251.1/60

All: 10.284+/-0.004 χ^2/NDF : 140134662.5/117

diff_cav4cX_mean vs Slug, Sign Corrected



Right In: -0.718 ± 0.483 χ^2/NDF : 64.4/33

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

Right Out: 0.642 ± 0.501 χ^2/NDF : 62.8/36

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

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

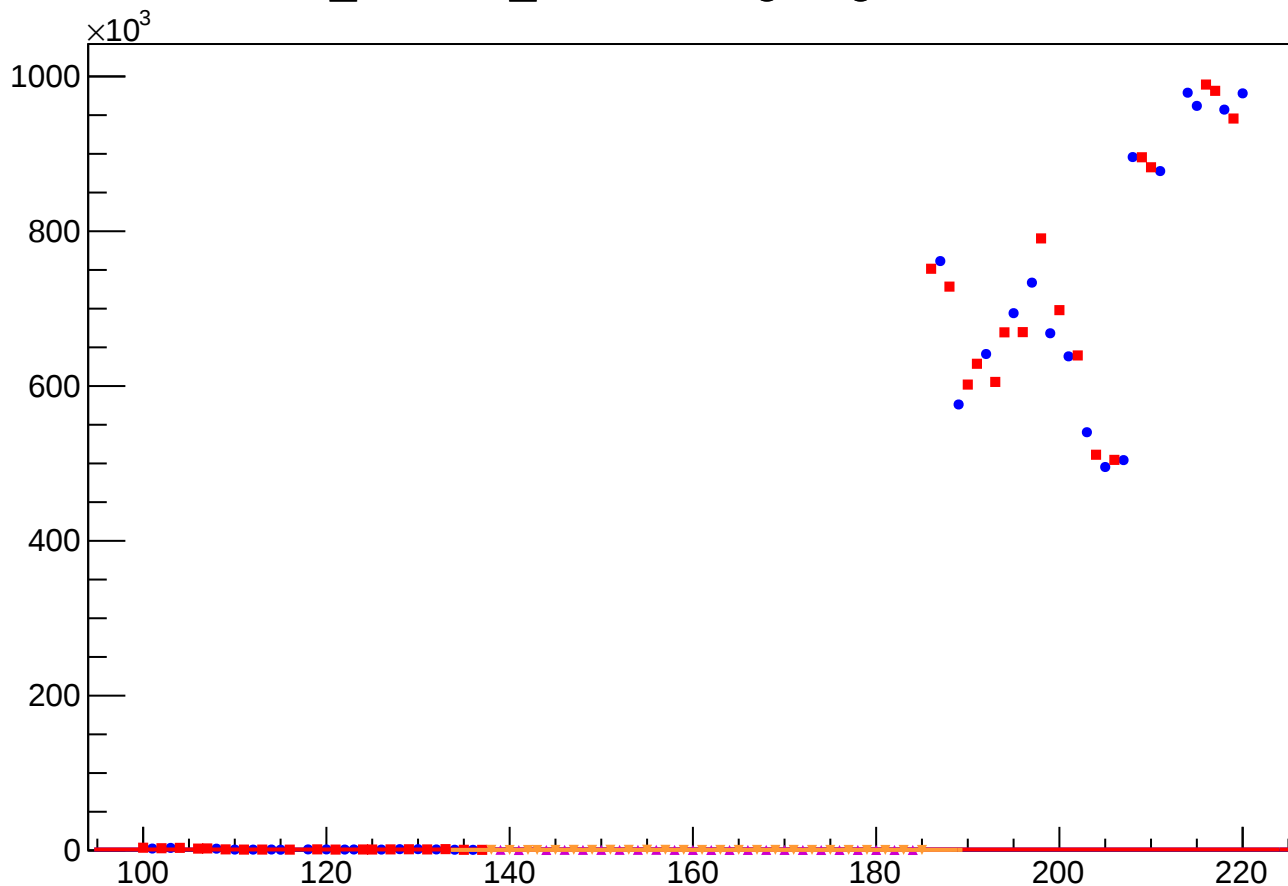
Right: -0.063 ± 0.348 χ^2/NDF : 131.0/70

In: -0.063 ± 0.161 χ^2/NDF : 95.9/56

Out: -0.637 ± 0.156 χ^2/NDF : 128.5/61

All: -0.359 ± 0.112 χ^2/NDF : 231.0/118

diff_cav4cX_rms vs Slug, Sign Corrected



Right In: 1170.377+/-0.342 χ^2/NDF : 19717026.8/32

Left Out: 700.984+/-0.116 χ^2/NDF :392855.4/24

Right Out: 1251.310+/-0.355 χ^2/NDF : 19395338.9/35

Left In: 706.971+/-0.121 χ^2/NDF :332011.4/22

Left: 703.867+/-0.084 χ^2/NDF : 726141.0/47

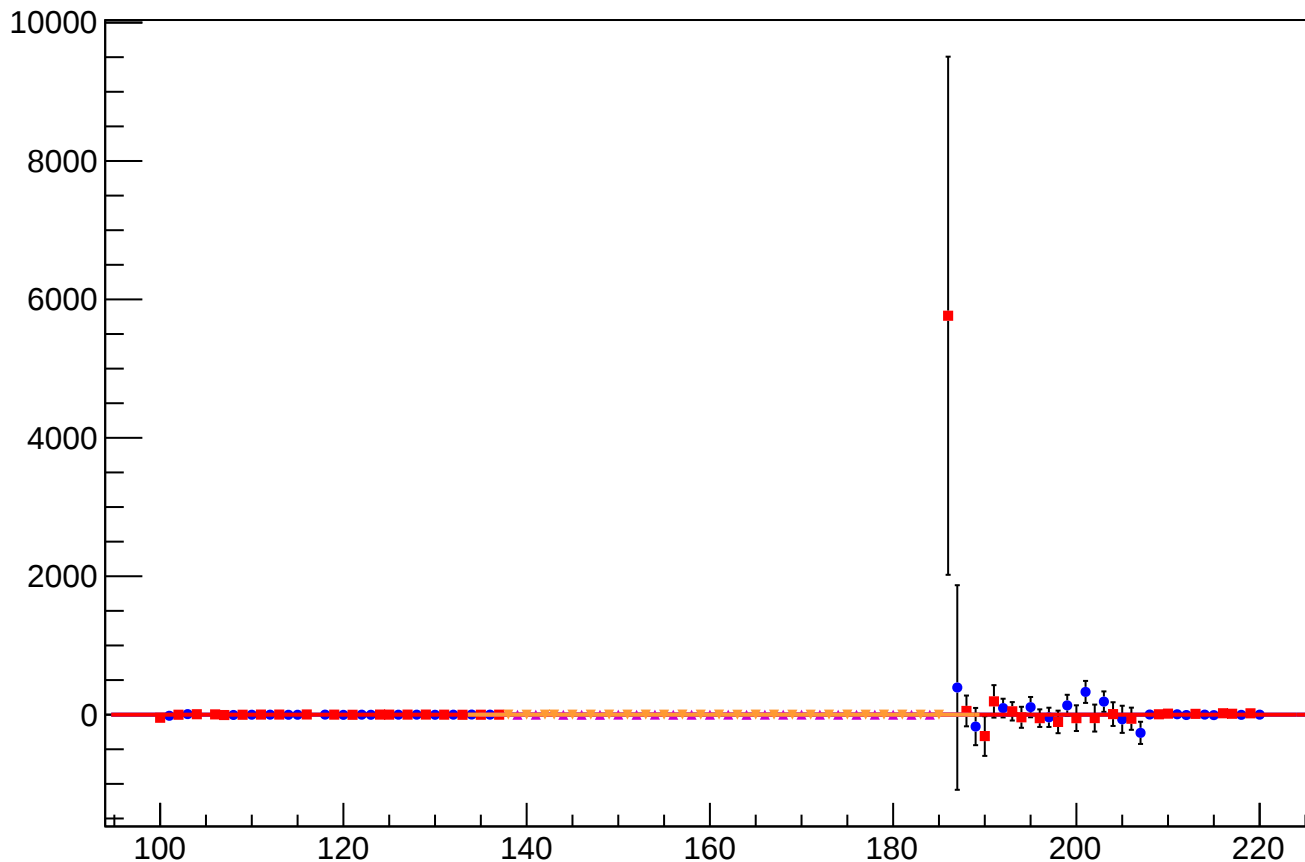
Right: 1209.335+/-0.246 χ^2/NDF : 39139383.5/68

In: 758.444+/-0.114 χ^2/NDF :21684745.6/55

Out: 754.493+/-0.111 χ^2/NDF :21962620.8/60

All: 756.411+/-0.079 χ^2/NDF : 43647986.2/11

diff_cav4cY_mean vs Slug, Sign Corrected



Right In: -0.070 ± 0.266 χ^2/NDF : 33.8/33

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

Right Out: -0.059 ± 0.262 χ^2/NDF : 78.0/36

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

Left: 0.059 ± 0.088 χ^2/NDF : 57.1/47

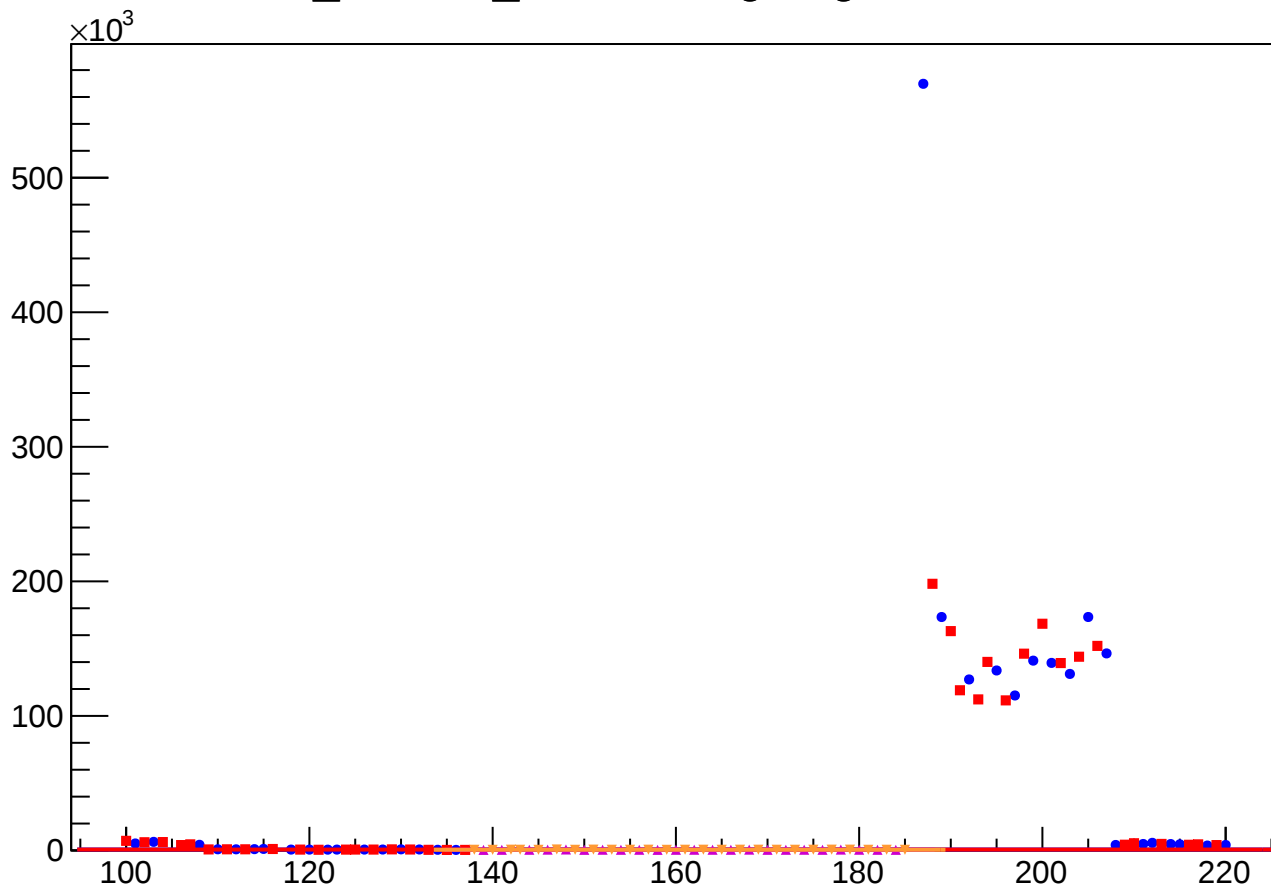
Right: -0.065 ± 0.187 χ^2/NDF : 111.8/70

In: -0.115 ± 0.114 χ^2/NDF : 68.8/56

Out: 0.181 ± 0.111 χ^2/NDF : 97.0/61

All: 0.036 ± 0.080 χ^2/NDF : 169.2/118

diff_cav4cY_rms vs Slug, Sign Corrected



Right In: 682.545 ± 0.188 $\chi^2/\text{NDF}: 24380608.3/33$

Left Out: 522.220 ± 0.087 $\chi^2/\text{NDF}: 330405.3/24$

Right Out: 660.662 ± 0.186 $\chi^2/\text{NDF}: 24822247.2/35$

Left In: 520.700 ± 0.089 $\chi^2/\text{NDF}: 427720.5/22$

Left: 521.481 ± 0.062 $\chi^2/\text{NDF}: 758275.0/47$

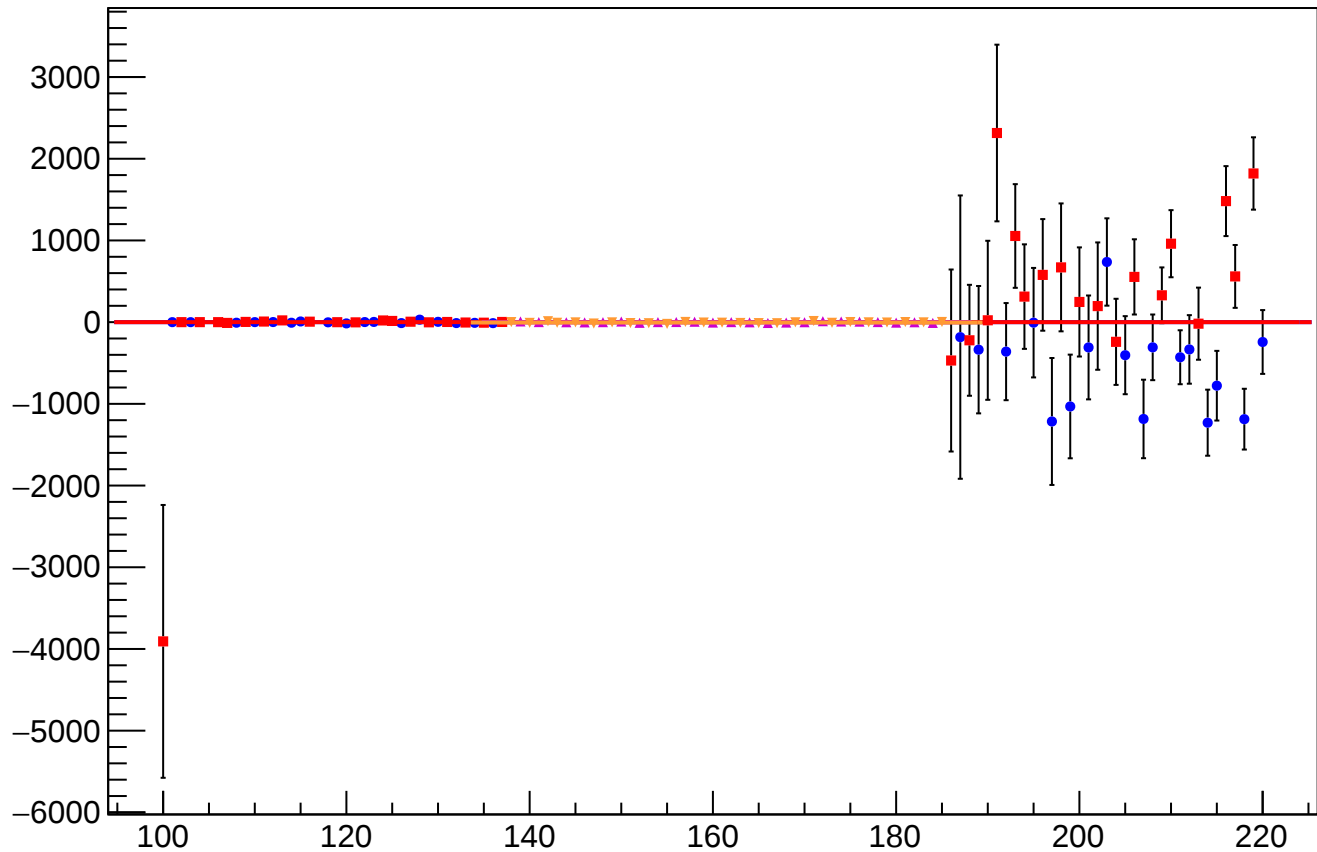
Right: 671.435 ± 0.132 $\chi^2/\text{NDF}: 49209703.3/69$

In: 550.327 ± 0.081 $\chi^2/\text{NDF}: 25411012.3/56$

Out: 547.027 ± 0.079 $\chi^2/\text{NDF}: 25609589.1/60$

All: 548.634 ± 0.056 $\chi^2/\text{NDF}: 51021461.1/11$

diff_cav4dX_mean vs Slug, Sign Corrected



Right In: -0.022 ± 0.021 χ^2/NDF : 56.7/33

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

Right Out: 0.027 ± 0.020 χ^2/NDF : 66.0/36

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

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

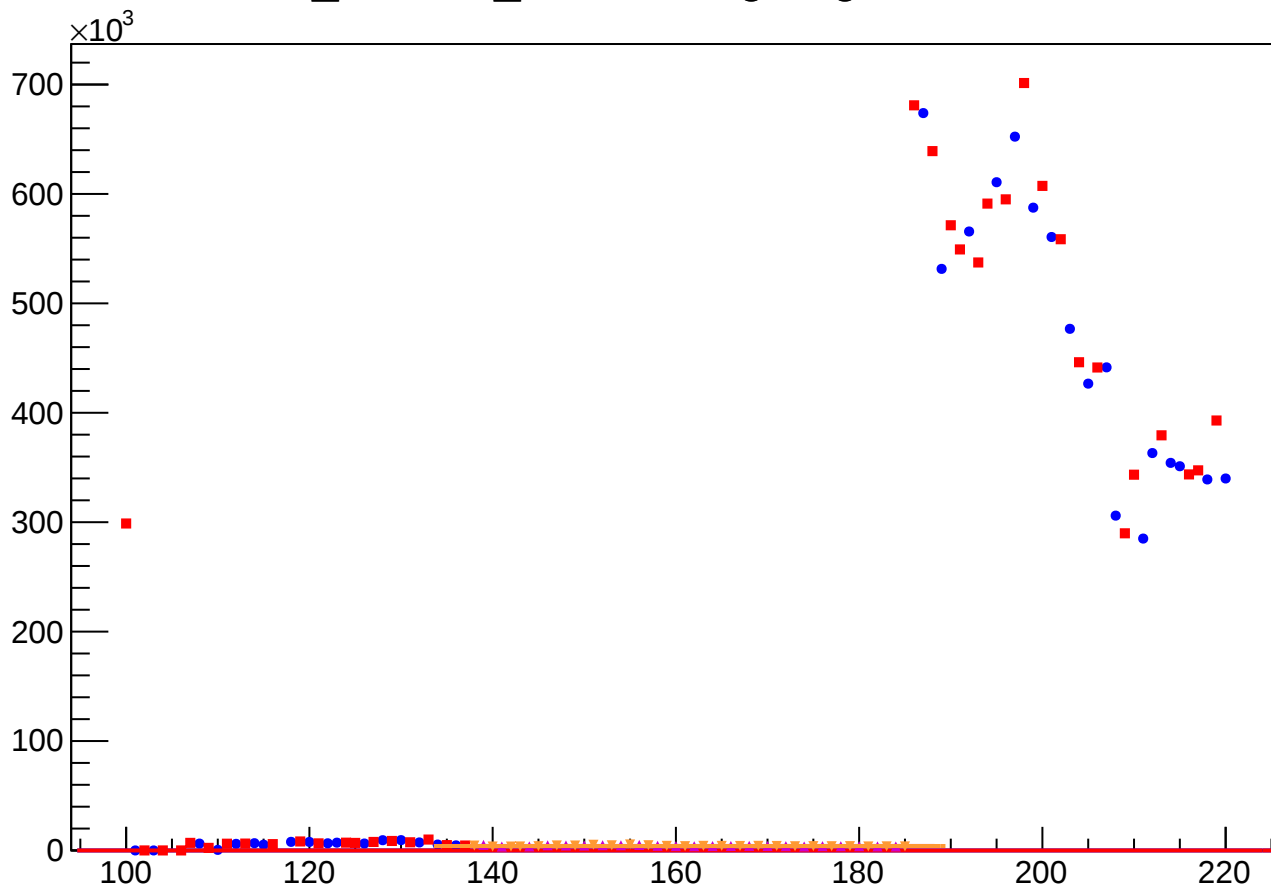
Right: 0.004 ± 0.014 χ^2/NDF : 125.5/70

In: -0.022 ± 0.021 χ^2/NDF : 86.2/56

Out: 0.025 ± 0.020 χ^2/NDF : 146.6/61

All: 0.003 ± 0.014 χ^2/NDF : 235.4/118

diff_cav4dX_rms vs Slug, Sign Corrected



Right In: 17.352+/-0.015 χ^2/NDF : 34935875.0/33

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

Right Out: 17.278+/-0.014 χ^2/NDF : 35504248.8/36

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

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

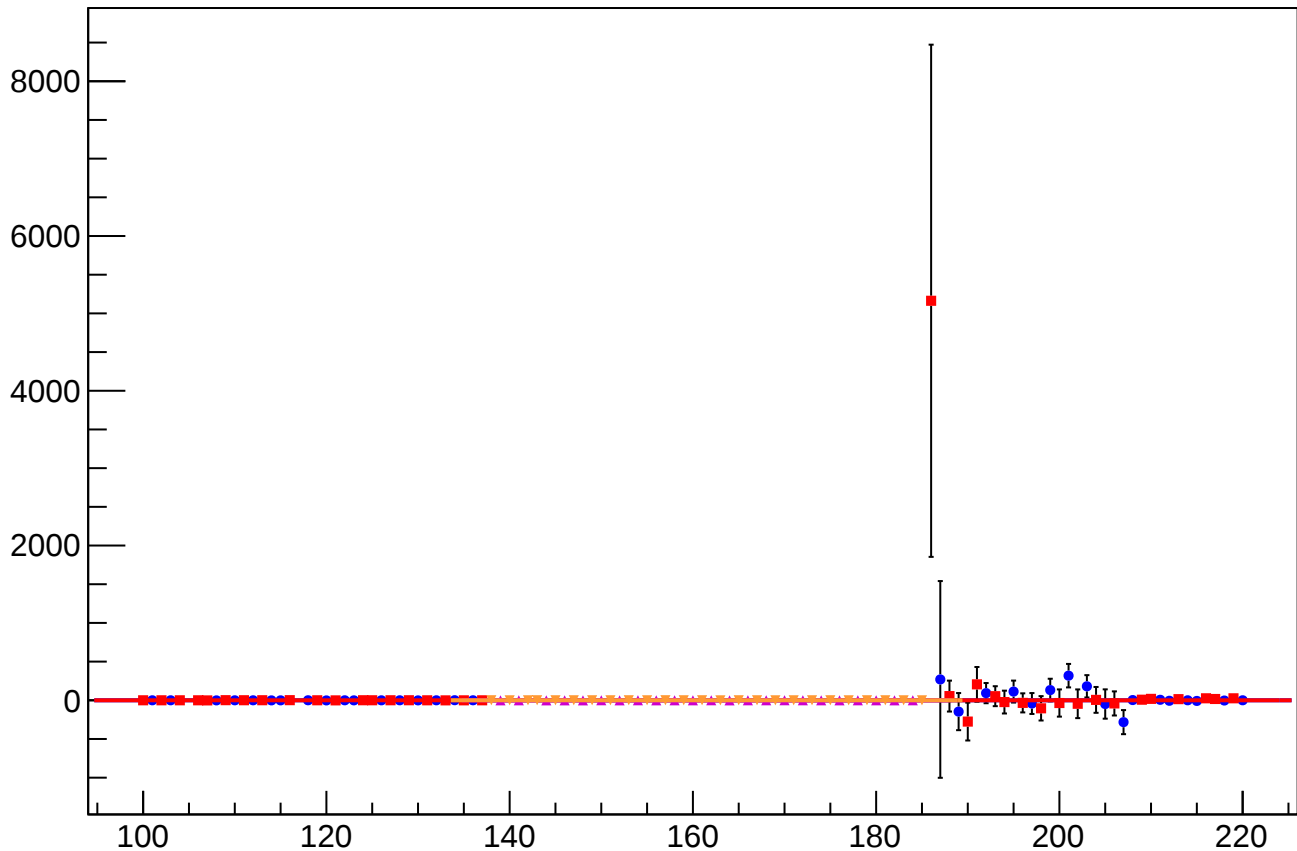
Right: 17.313+/-0.010 χ^2/NDF : 70440136.9/70

In: 19.144+/-0.015 χ^2/NDF : 69238205.3/56

Out: 19.010+/-0.014 χ^2/NDF : 71857121.1/61

All: 19.073+/-0.010 χ^2/NDF : 141095369.9/111

diff_cav4dY_mean vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.002 χ^2 /NDF: 29.0/33

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

Right Out: -0.001 $\pm$ 0.002 χ^2 /NDF: 80.1/36

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

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

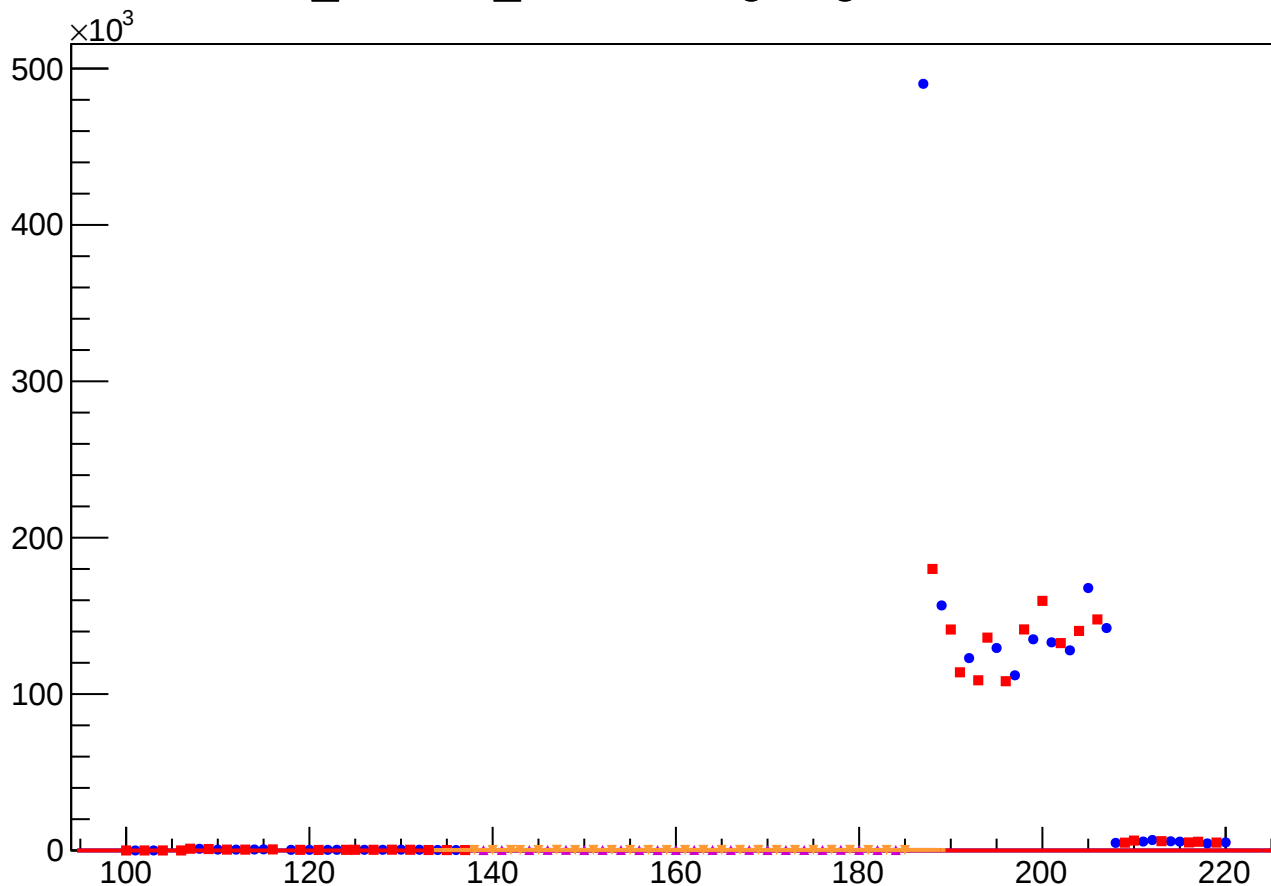
Right: -0.000 $\pm$ 0.001 χ^2 /NDF: 109.2/70

In: 0.000 $\pm$ 0.002 χ^2 /NDF:64.7/56

Out: -0.001 $\pm$ 0.002 χ^2 /NDF:101.2/61

All: -0.000 $\pm$ 0.001 χ^2 /NDF: 166.0/118

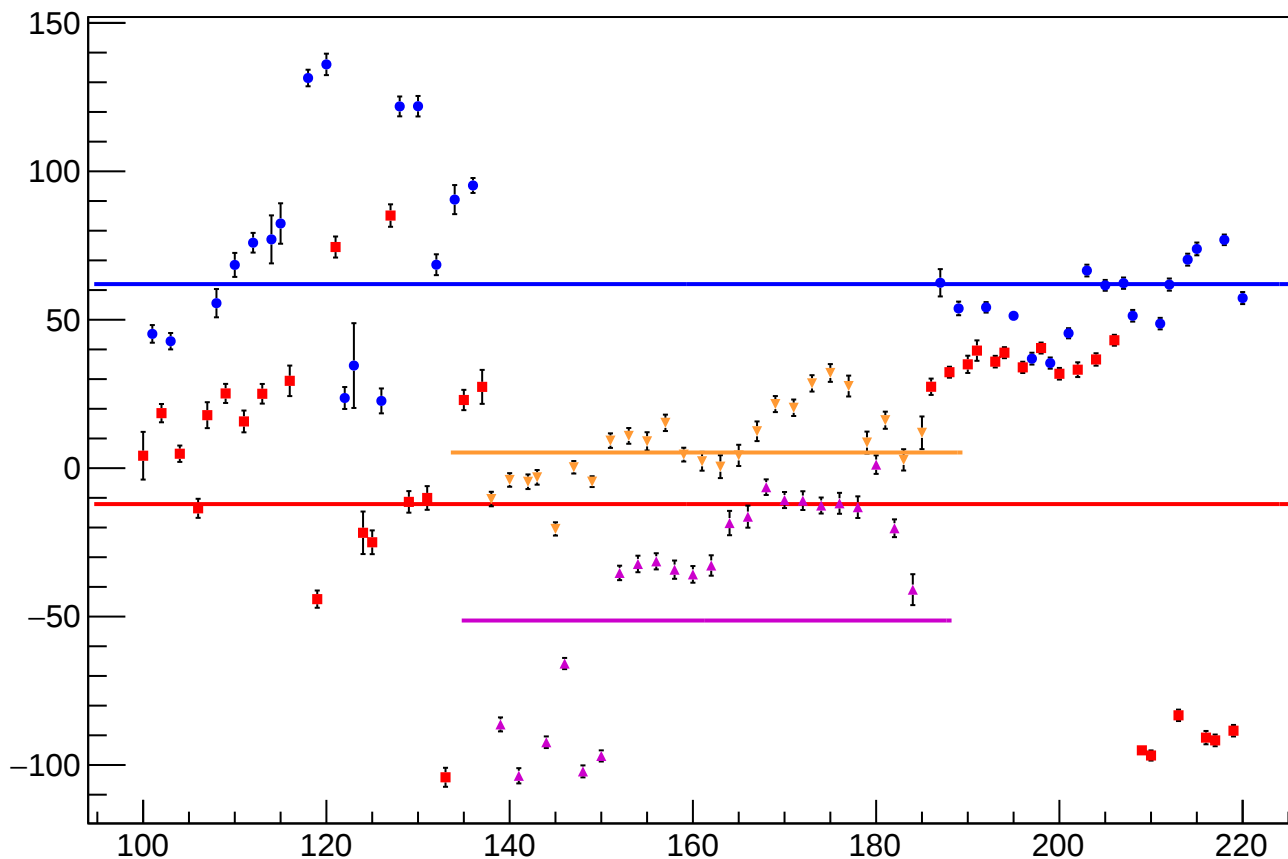
diff_cav4dY_rms vs Slug, Sign Corrected



Right In: 1.703+/-0.001 χ^2/NDF : 35135289.9/33
 Left Out: 325.326+/-0.054 χ^2/NDF : 347705.2/24
 Right Out: 1.731+/-0.001 χ^2/NDF : 34441973.2/35
 Left In: 325.626+/-0.056 χ^2/NDF : 413350.0/22

Left: 325.471+/-0.039 χ^2/NDF : 761070.2/47
 Right: 1.718+/-0.001 χ^2/NDF : 69577468.2/69
 In: 1.917+/-0.001 χ^2/NDF : 69276606.6/56
 Out: 1.940+/-0.001 χ^2/NDF : 70648792.5/60
 All: 1.929+/-0.001 χ^2/NDF : 139925535.7/117

diff_bpm0i01X_mean vs Slug, Sign Corrected



Right In: 62.008 ± 0.420 χ^2/NDF : 2914.3/33

Left Out: 5.276 ± 0.544 χ^2/NDF : 556.2/24

Right Out: -12.102 ± 0.408 χ^2/NDF : 21415.0/36

Left In: -51.328 ± 0.558 χ^2/NDF : 4257.8/22

Left: -22.298 ± 0.390 χ^2/NDF : 10084.6/47

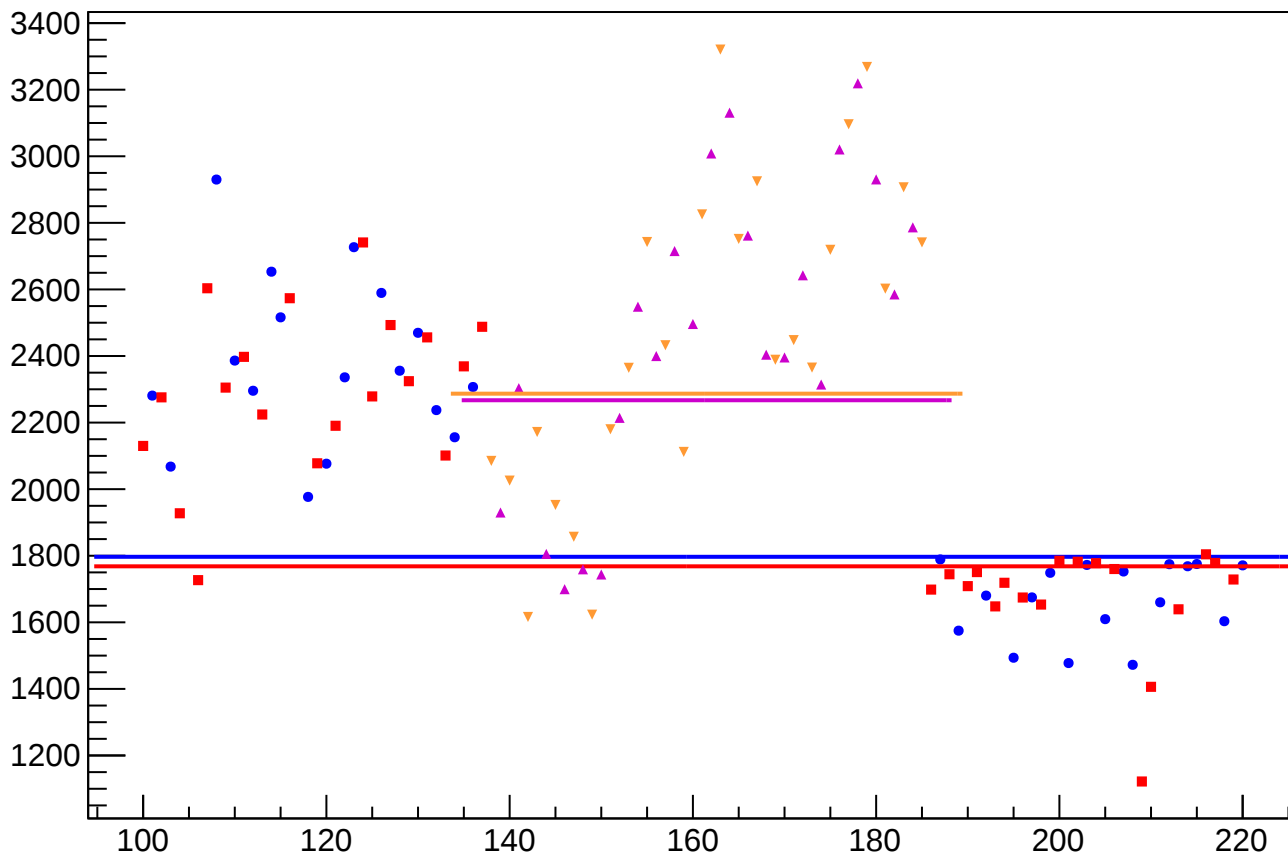
Right: 23.898 ± 0.293 χ^2/NDF : 40355.2/70

In: 21.078 ± 0.336 χ^2/NDF : 33494.2/56

Out: -5.848 ± 0.326 χ^2/NDF : 22624.0/61

All: 7.245 ± 0.234 χ^2/NDF : 59426.4/118

diff_bpm0i01X_rms vs Slug, Sign Corrected



Right In: 1796.841 $\pm$ 0.297 χ^2/NDF : 1000164.1/33

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

Right Out: 1768.202 $\pm$ 0.289 χ^2/NDF : 1358616.3/36

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

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

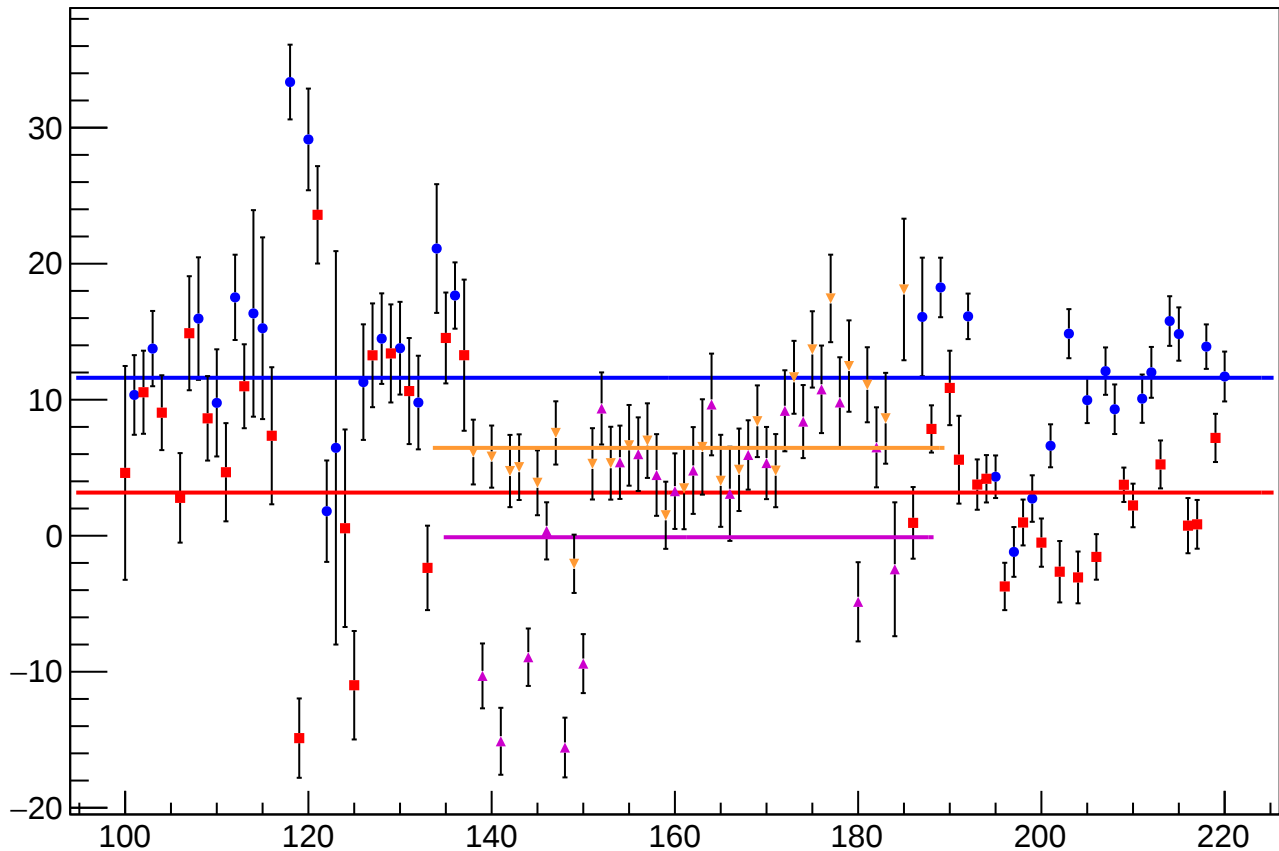
Right: 1782.114 $\pm$ 0.207 χ^2/NDF : 2363566.9/70

In: 1966.670 $\pm$ 0.237 χ^2/NDF :3219859.2/56

Out: 1954.856 $\pm$ 0.231 χ^2/NDF :3882161.0/61

All: 1960.601 $\pm$ 0.165 χ^2/NDF : 7103293.8/11

diff_bpm0i01Y_mean vs Slug, Sign Corrected



Right In: 11.612 ± 0.392 $\chi^2/\text{NDF}: 251.1/33$

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

Right Out: 3.173 ± 0.383 $\chi^2/\text{NDF}: 223.1/36$

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

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

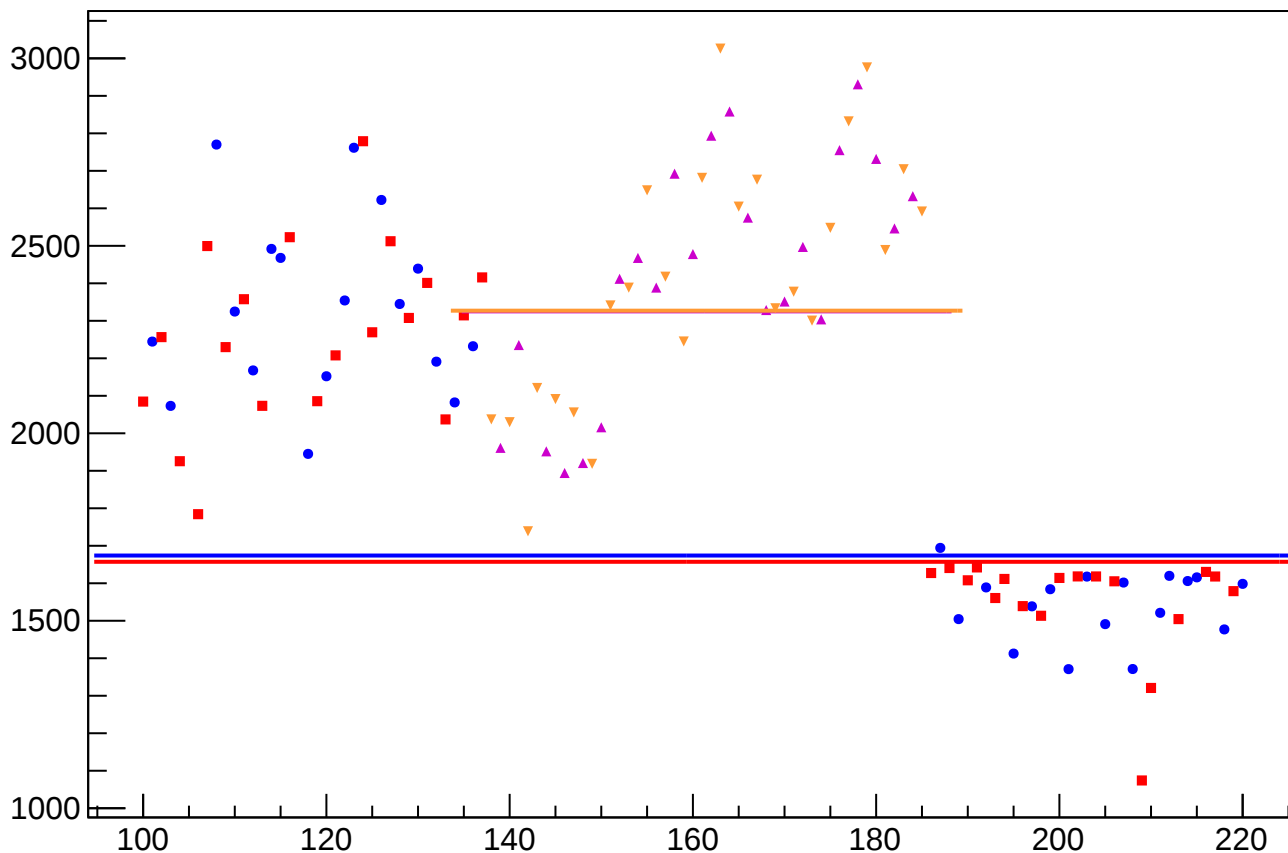
Right: 7.296 ± 0.274 $\chi^2/\text{NDF}: 711.2/70$

In: 7.803 ± 0.322 $\chi^2/\text{NDF}: 776.1/56$

Out: 4.253 ± 0.314 $\chi^2/\text{NDF}: 306.1/61$

All: 5.982 ± 0.225 $\chi^2/\text{NDF}: 1144.4/118$

diff_bpm0i01Y_rms vs Slug, Sign Corrected



Right In: 1673.974 ± 0.277 $\chi^2/\text{NDF}: 1268739.5/33$

Left Out: 2327.044 ± 0.387 $\chi^2/\text{NDF}: 646706.7/24$

Right Out: 1657.283 ± 0.271 $\chi^2/\text{NDF}: 1563136.8/36$

Left In: 2325.175 ± 0.400 $\chi^2/\text{NDF}: 610729.2/22$

Left: 2326.139 ± 0.278 $\chi^2/\text{NDF}: 1257447.2/47$

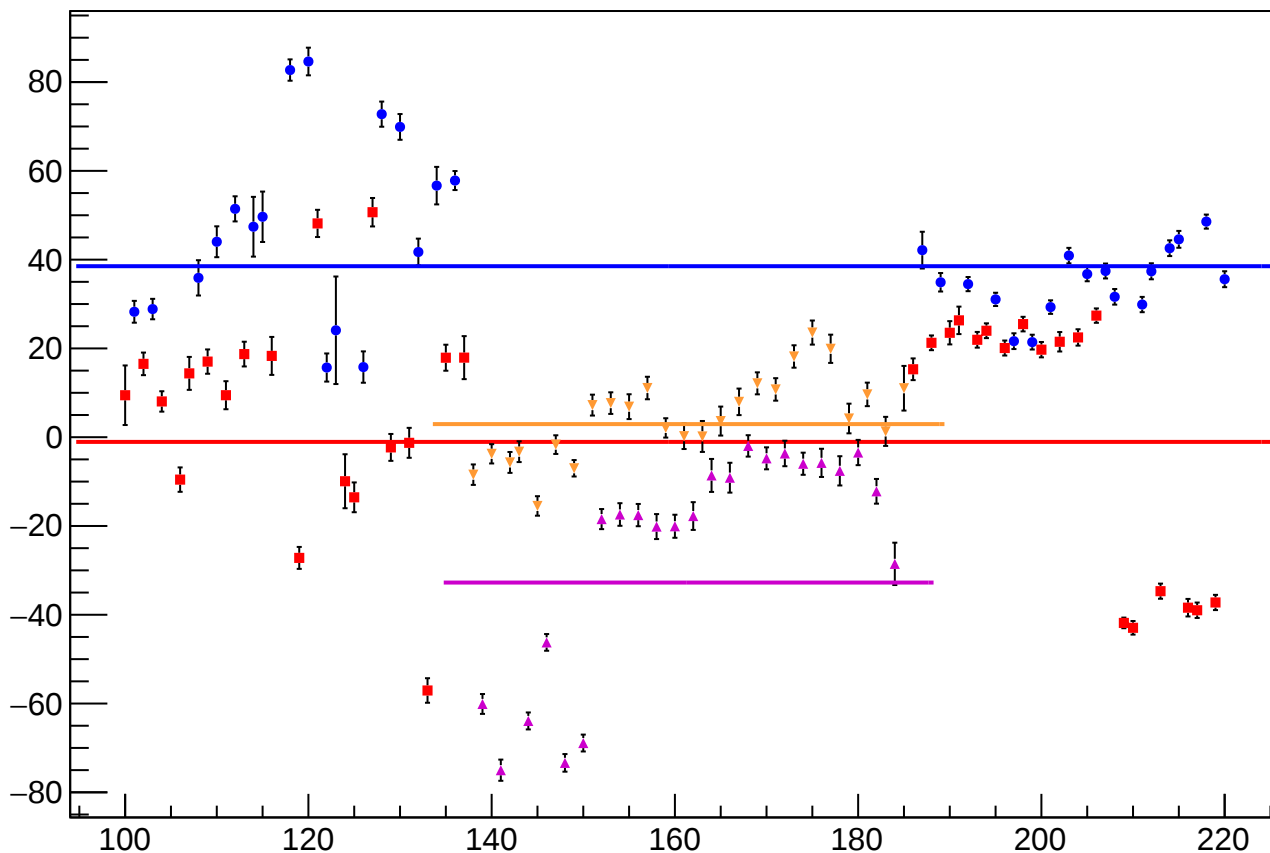
Right: 1665.437 ± 0.194 $\chi^2/\text{NDF}: 2833729.7/70$

In: 1885.578 ± 0.228 $\chi^2/\text{NDF}: 3671986.5/56$

Out: 1877.477 ± 0.222 $\chi^2/\text{NDF}: 4218386.0/61$

All: 1881.423 ± 0.159 $\chi^2/\text{NDF}: 7891021.0/111$

diff_bpm0i01aX_mean vs Slug, Sign Corrected



Right In: 38.523+/-0.369 χ^2/NDF : 1449.3/33

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

Right Out: -1.058+/-0.359 χ^2/NDF : 6829.4/36

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

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

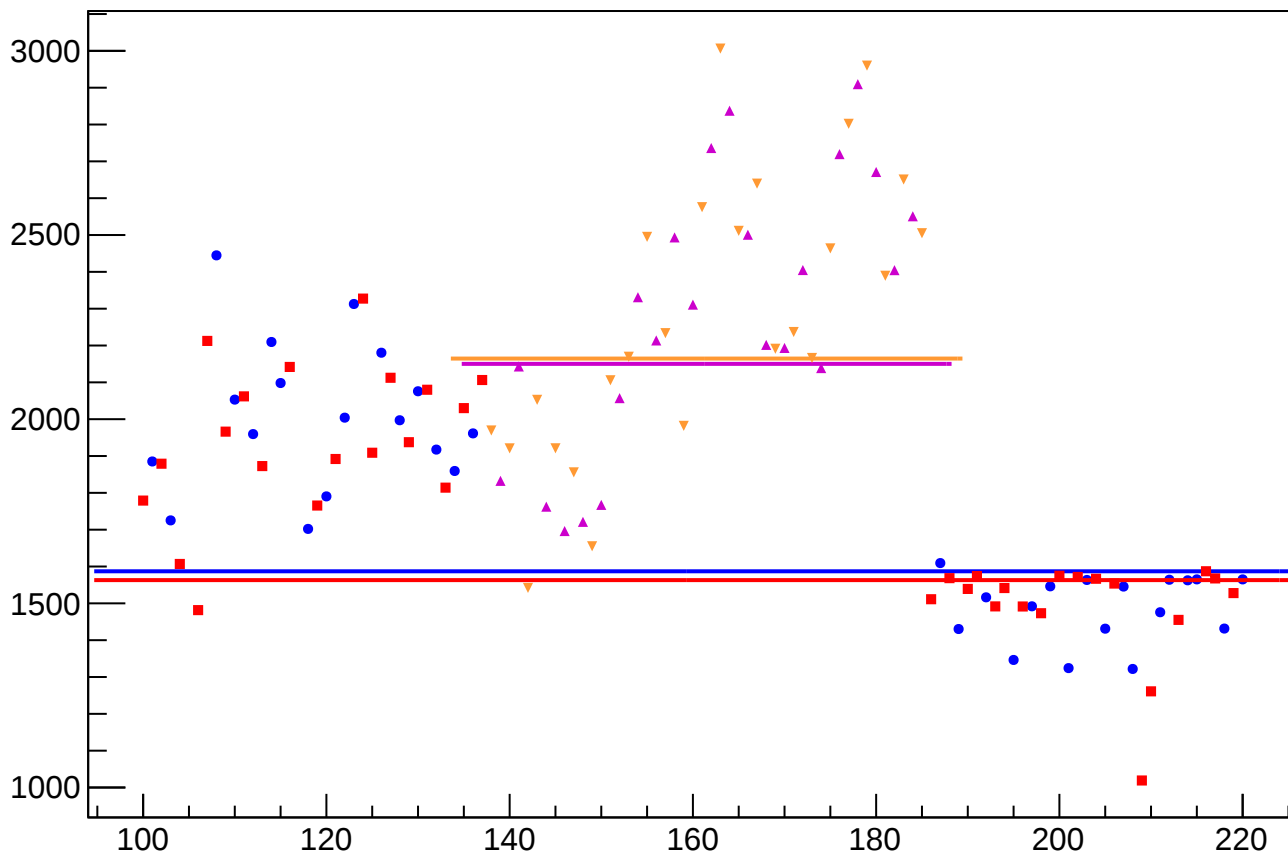
Right: 18.185+/-0.258 χ^2/NDF : 14180.9/70

In: 14.998+/-0.302 χ^2/NDF : 16374.3/56

Out: 0.265+/-0.294 χ^2/NDF : 7208.3/61

All: 7.429+/-0.211 χ^2/NDF : 24803.1/118

diff_bpm0i01aX_rms vs Slug, Sign Corrected



Right In: 1587.033 ± 0.261 $\chi^2/\text{NDF}: 764484.0/33$

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

Right Out: 1563.073 ± 0.254 $\chi^2/\text{NDF}: 1081993.7/36$

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

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

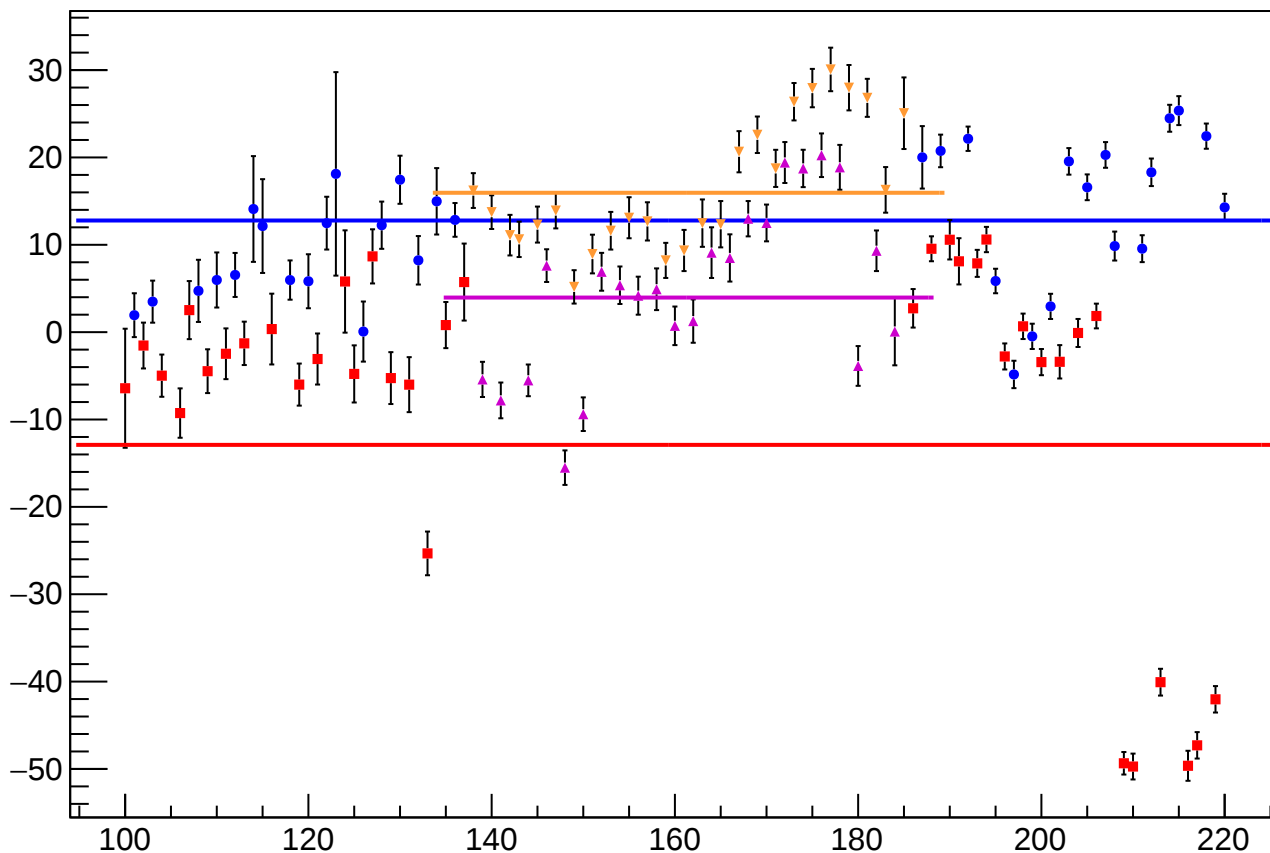
Right: 1574.721 ± 0.182 $\chi^2/\text{NDF}: 1850803.2/70$

In: 1772.926 ± 0.214 $\chi^2/\text{NDF}: 3211420.8/56$

Out: 1761.535 ± 0.208 $\chi^2/\text{NDF}: 3897711.9/61$

All: 1767.074 ± 0.149 $\chi^2/\text{NDF}: 7110591.8/11$

diff_bpm0i01aY_mean vs Slug, Sign Corrected



Right In: 12.781 $\pm$ 0.334 χ^2 /NDF: 665.5/33

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

Right Out: -12.903 $\pm$ 0.328 χ^2 /NDF: 4636.0/36

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

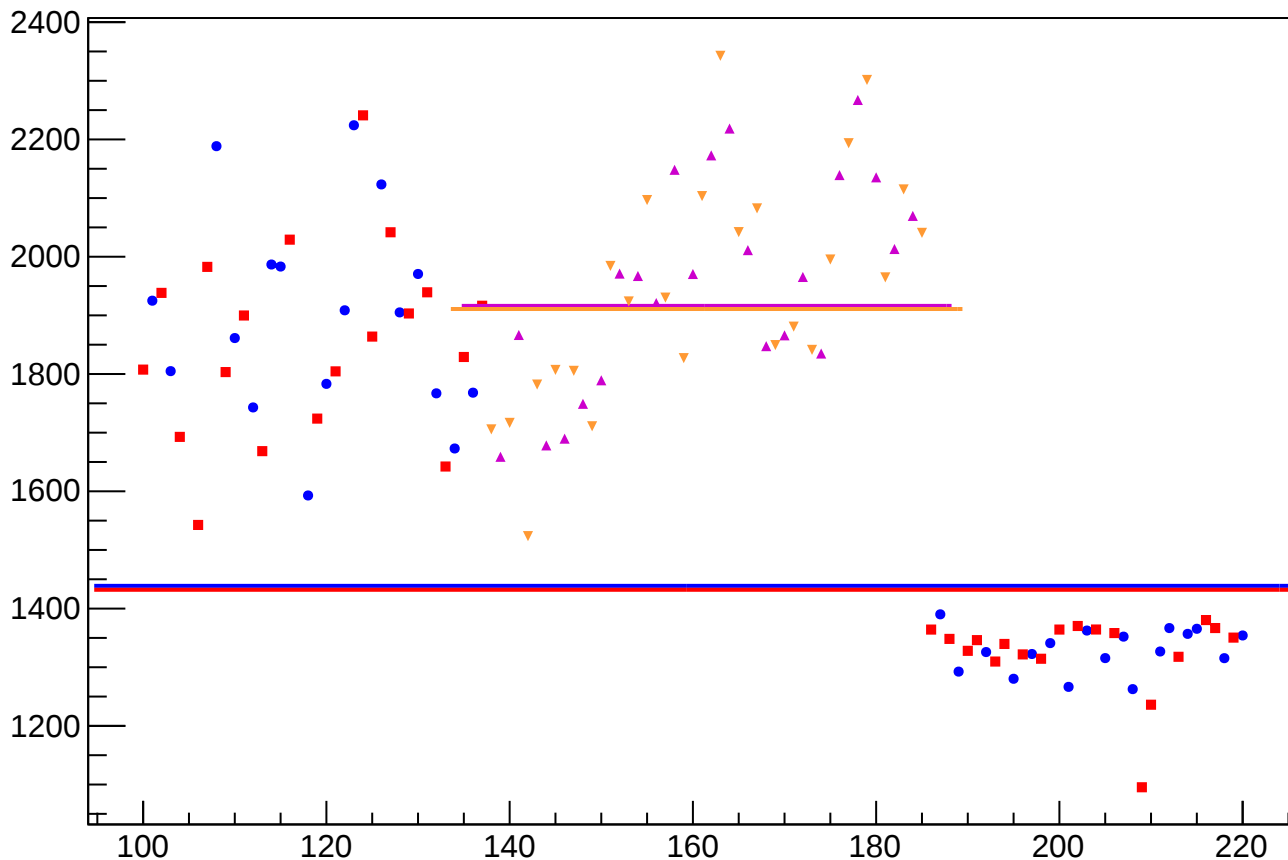
Right: -0.305 $\pm$ 0.234 χ^2 /NDF: 8308.8/70

In: 9.757 $\pm$ 0.271 χ^2 /NDF:1369.1/56

Out: -2.814 $\pm$ 0.265 χ^2 /NDF:7587.3/61

All: 3.319 $\pm$ 0.189 χ^2 /NDF: 10058.2/118

diff_bpm0i01aY_rms vs Slug, Sign Corrected



Right In: 1438.789 $\pm$ 0.236 χ^2 /NDF: 904121.4/33

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

Right Out: 1432.077 $\pm$ 0.232 χ^2 /NDF: 986041.3/36

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

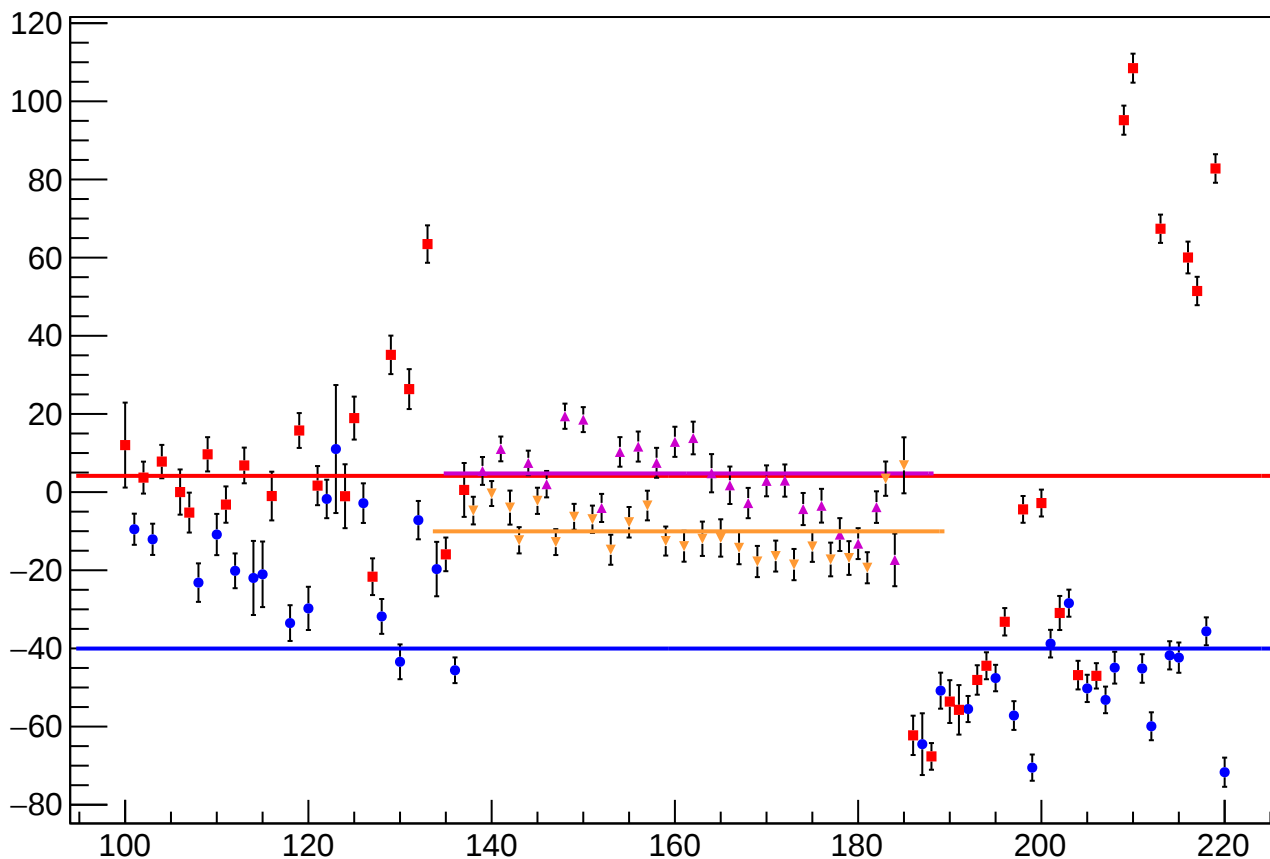
Right: 1435.369 $\pm$ 0.166 χ^2 /NDF: 1890573.5/70

In: 1602.462 $\pm$ 0.192 χ^2 /NDF: 2576567.4/56

Out: 1599.453 $\pm$ 0.187 χ^2 /NDF: 2804686.6/61

All: 1600.921 $\pm$ 0.134 χ^2 /NDF: 5381380.3/111

diff_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -40.033 ± 0.718 χ^2/NDF : 657.0/33

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

Right Out: 4.155 ± 0.709 χ^2/NDF : 4642.2/36

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

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

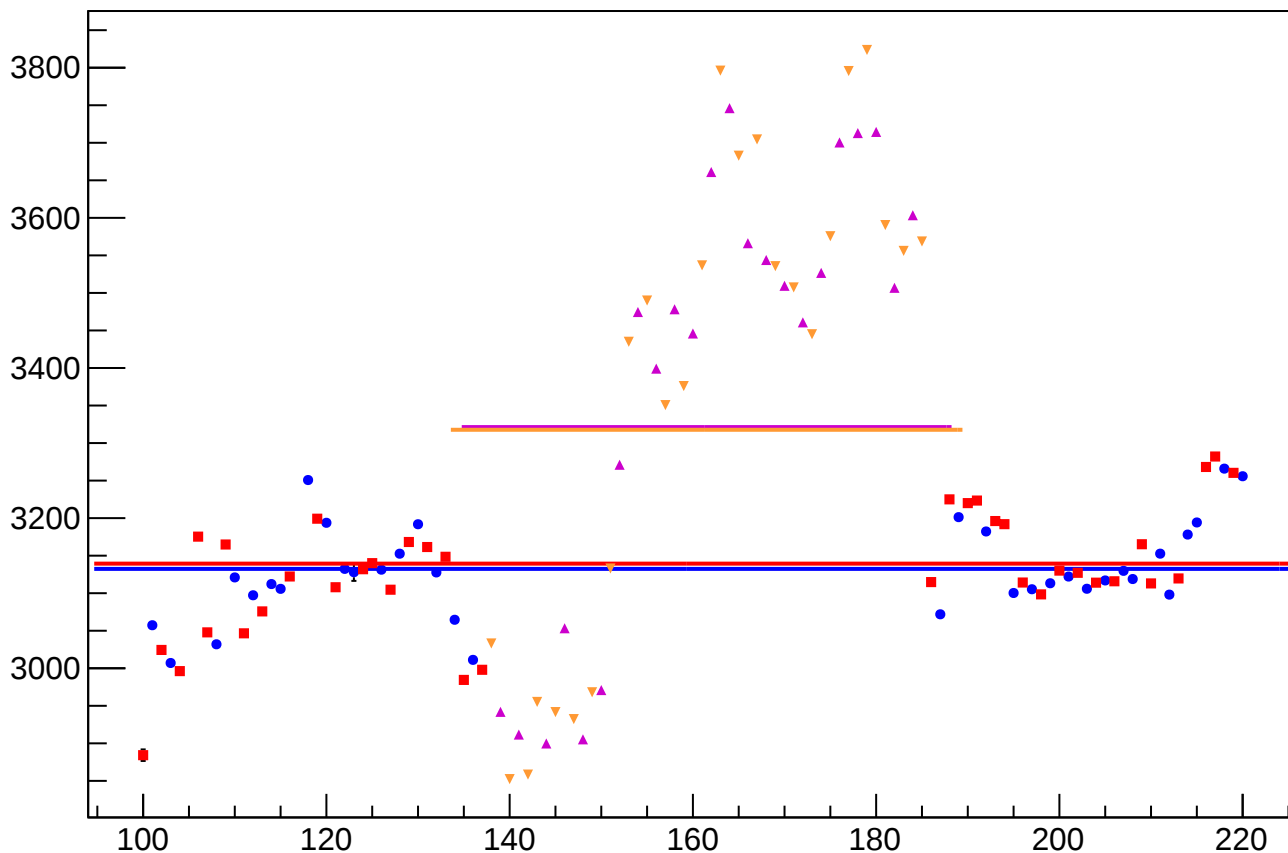
Right: -17.665 ± 0.505 χ^2/NDF : 7216.2/70

In: -20.055 ± 0.535 χ^2/NDF : 2521.7/56

Out: -2.303 ± 0.524 χ^2/NDF : 4891.6/61

All: -10.996 ± 0.374 χ^2/NDF : 7976.2/118

diff_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 3132.390+/-0.508 χ^2/NDF : 16181.9/33

Left Out: 3317.699+/-0.549 χ^2/NDF : 336877.2/24

Right Out: 3139.387+/-0.501 χ^2/NDF : 22184.1/36

Left In: 3321.275+/-0.566 χ^2/NDF : 284334.2/22

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

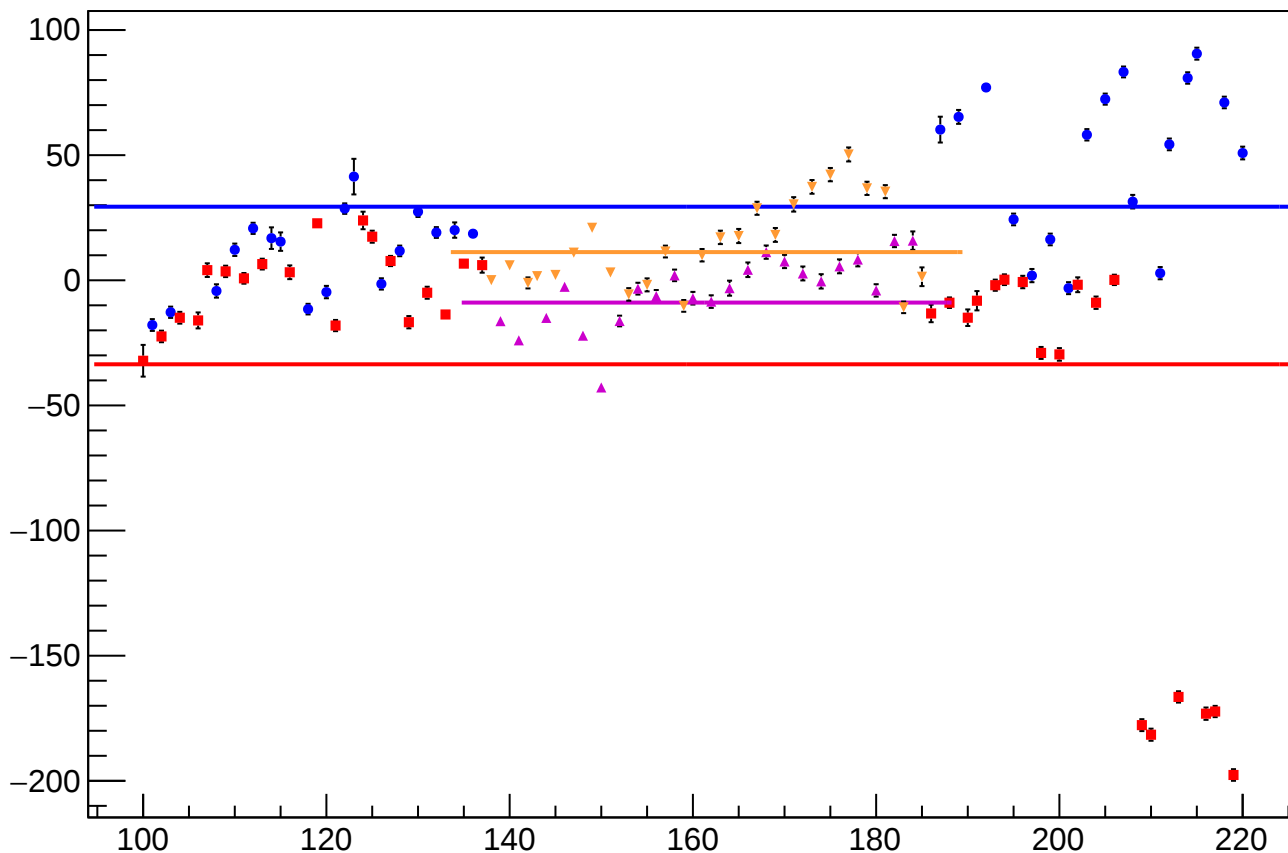
Right: 3135.932+/-0.357 χ^2/NDF : 38462.1/70

In: 3216.609+/-0.378 χ^2/NDF : 362223.7/56

Out: 3220.499+/-0.370 χ^2/NDF : 416574.8/61

All: 3218.594+/-0.264 χ^2/NDF : 778852.5/118

diff_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: 29.404 ± 0.406 $\chi^2/\text{NDF}: 5934.9/33$

Left Out: 11.268 ± 0.454 $\chi^2/\text{NDF}: 1141.8/24$

Right Out: -33.563 ± 0.398 $\chi^2/\text{NDF}: 28456.5/36$

Left In: -8.905 ± 0.478 $\chi^2/\text{NDF}: 936.3/22$

Left: 1.682 ± 0.329 $\chi^2/\text{NDF}: 3014.7/47$

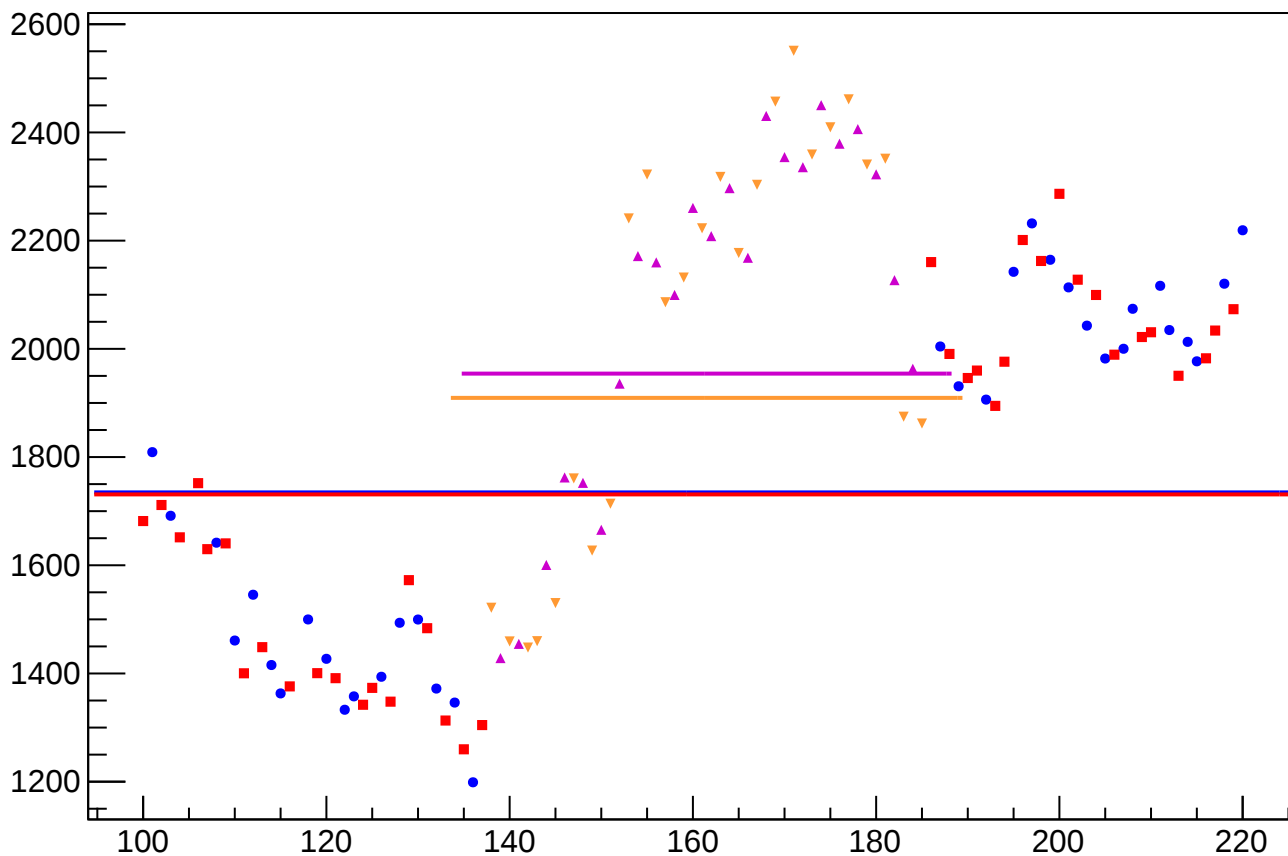
Right: -2.667 ± 0.284 $\chi^2/\text{NDF}: 46660.3/70$

In: 13.344 ± 0.309 $\chi^2/\text{NDF}: 10609.0/56$

Out: -14.088 ± 0.299 $\chi^2/\text{NDF}: 35104.5/61$

All: -0.810 ± 0.215 $\chi^2/\text{NDF}: 49775.0/118$

diff_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 1734.662 $\pm$ 0.287 χ^2 /NDF: 1386592.1/33

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

Right Out: 1730.983 $\pm$ 0.282 χ^2 /NDF: 1292740.7/36

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

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

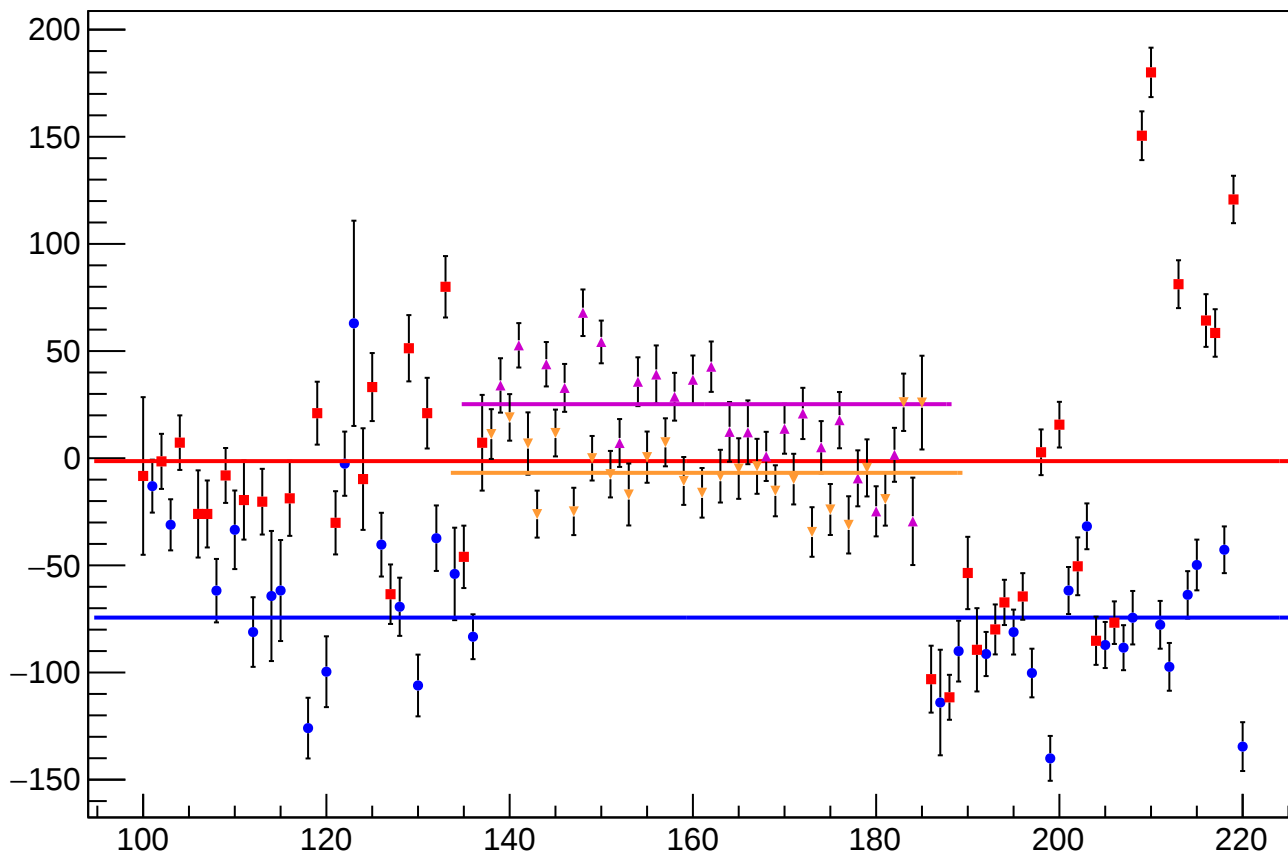
Right: 1732.788 $\pm$ 0.201 χ^2 /NDF: 2679416.6/70

In: 1826.713 $\pm$ 0.219 χ^2 /NDF:2677011.4/56

Out: 1808.484 $\pm$ 0.212 χ^2 /NDF:2865634.1/61

All: 1817.308 $\pm$ 0.152 χ^2 /NDF: 5546232.7/11

diff_bpm0l02X_mean vs Slug, Sign Corrected



Right In: -74.371 ± 2.223 χ^2/NDF : 226.4/33

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

Right Out: -1.357 ± 2.198 χ^2/NDF : 1184.2/36

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

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

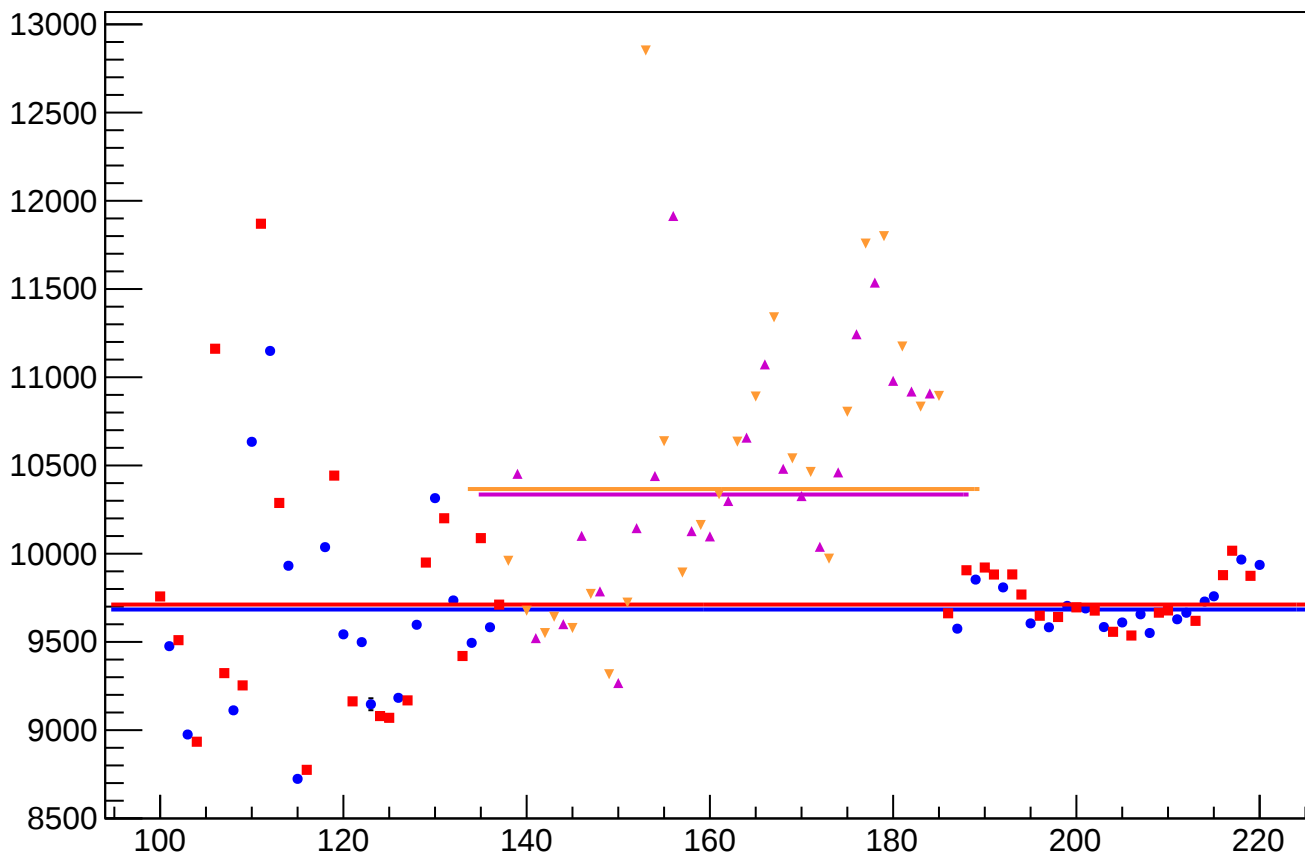
Right: -37.444 ± 1.563 χ^2/NDF : 1956.3/70

In: -30.137 ± 1.657 χ^2/NDF : 1207.2/56

Out: -3.825 ± 1.628 χ^2/NDF : 1229.4/61

All: -16.744 ± 1.161 χ^2/NDF : 2564.9/118

diff_bpm0l02X_rms vs Slug, Sign Corrected



Right In: 9683.614 ± 1.572 $\chi^2/\text{NDF}: 48097.4/33$

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

Right Out: 9711.794 ± 1.554 $\chi^2/\text{NDF}: 82999.7/36$

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

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

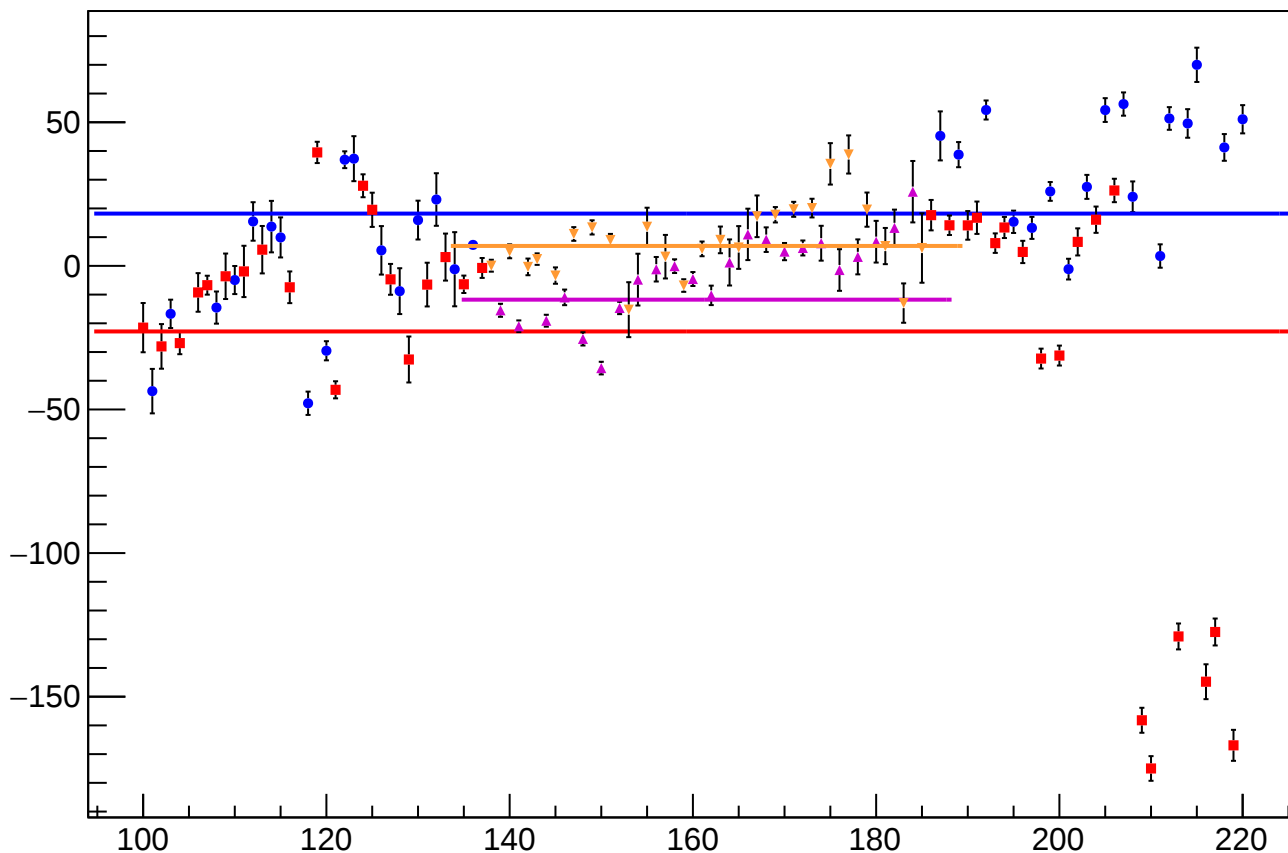
Right: 9697.866 ± 1.105 $\chi^2/\text{NDF}: 131259.7/70$

In: 9973.123 ± 1.172 $\chi^2/\text{NDF}: 251647.6/56$

Out: 10007.349 ± 1.151 $\chi^2/\text{NDF}: 374547.7/61$

All: 9990.544 ± 0.821 $\chi^2/\text{NDF}: 626629.5/118$

diff_bpm0l02Y_mean vs Slug, Sign Corrected



Right In: 18.203 $\pm$ 0.739 χ^2/NDF : 1371.3/33

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

Right Out: -22.834 $\pm$ 0.737 χ^2/NDF : 5879.5/36

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

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

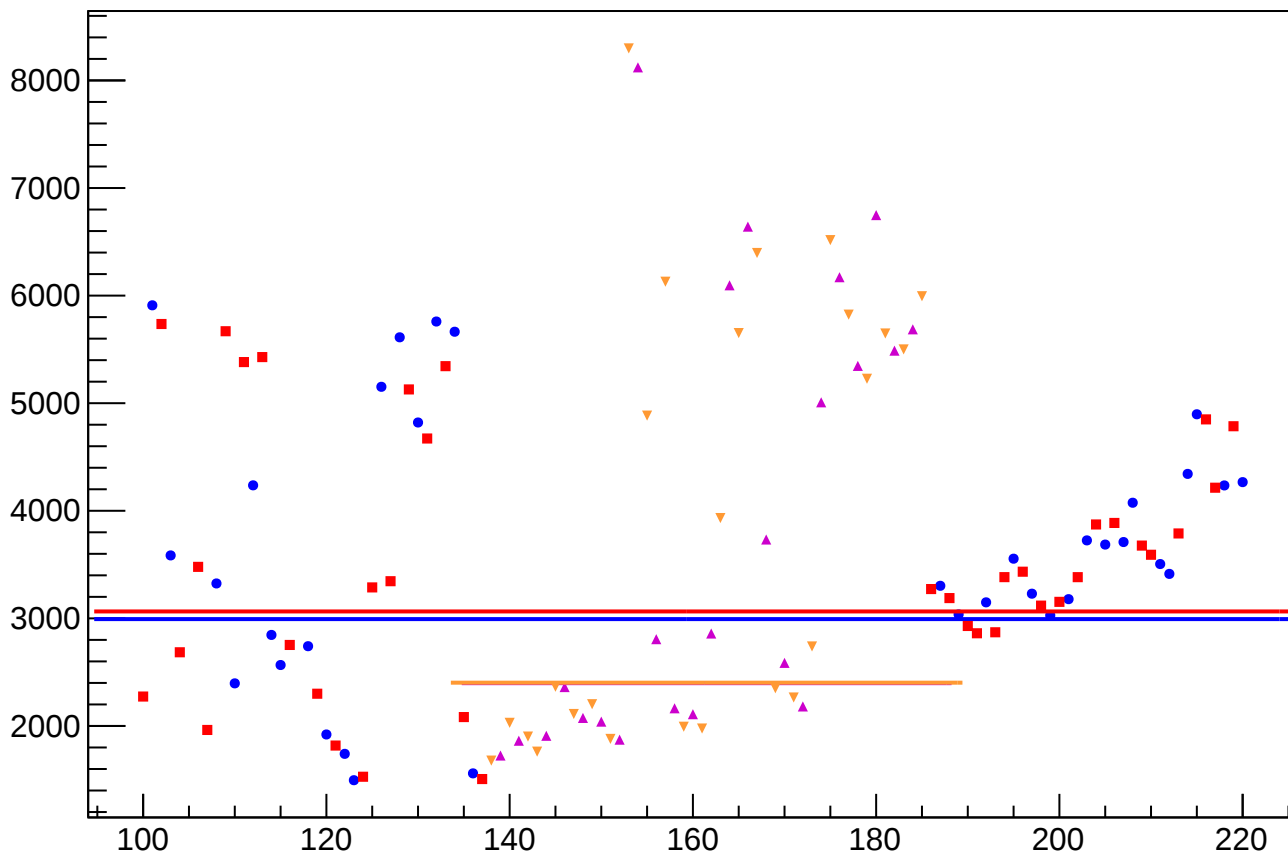
Right: -2.381 $\pm$ 0.522 χ^2/NDF : 8797.9/70

In: 1.270 $\pm$ 0.487 χ^2/NDF : 2695.8/56

Out: -5.841 $\pm$ 0.483 χ^2/NDF : 7016.0/61

All: -2.320 $\pm$ 0.343 χ^2/NDF : 9819.3/118

diff_bpm0l02Y_rms vs Slug, Sign Corrected



Right In: 2993.299+/-0.523 χ^2/NDF : 4236199.2/33

Left Out: 2402.359+/-0.452 χ^2/NDF : 6345982.8/24

Right Out: 3064.468+/-0.521 χ^2/NDF : 3579237.2/36

Left In: 2397.701+/-0.458 χ^2/NDF : 5398920.1/22

Left: 2400.065+/-0.322 χ^2/NDF : 11744955.3/47

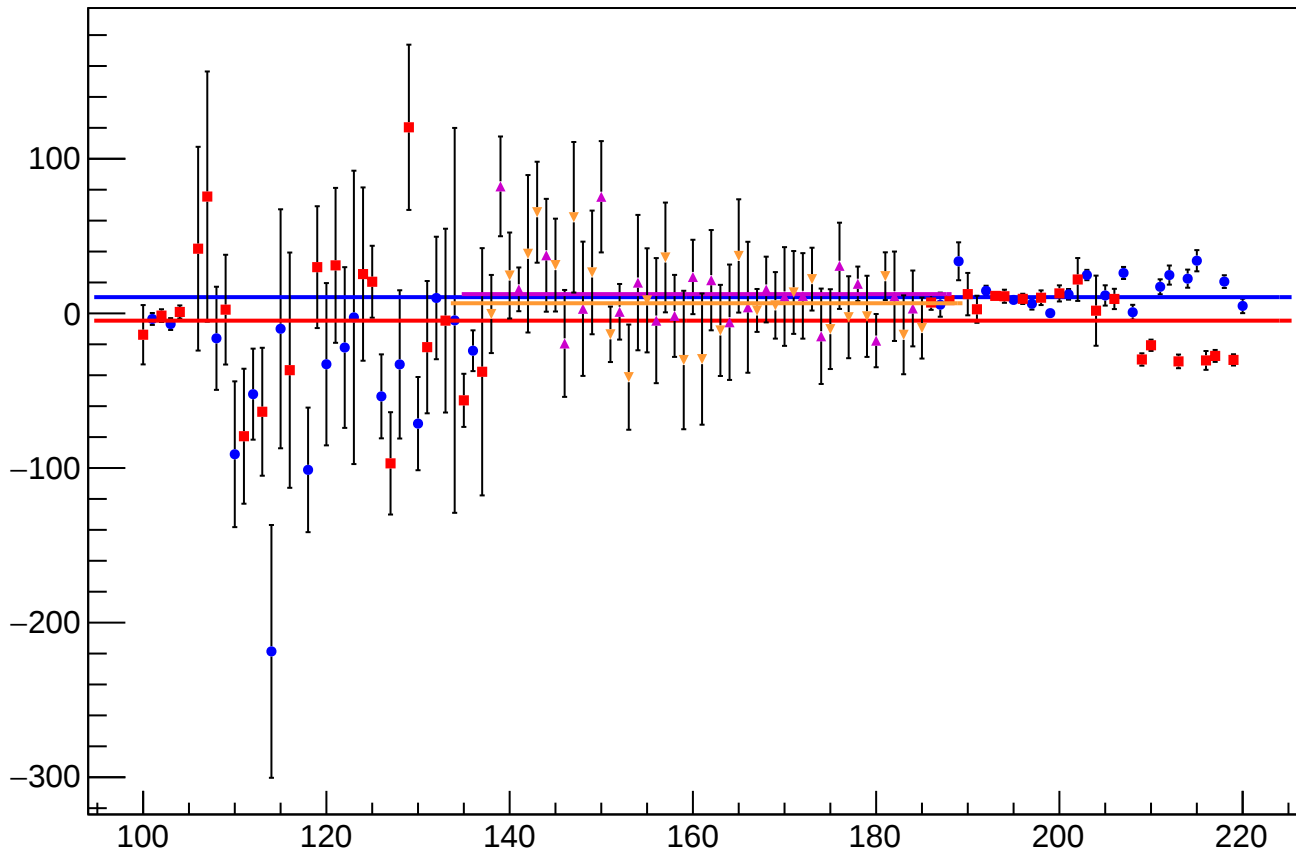
Right: 3028.997+/-0.369 χ^2/NDF : 7824742.3/70

In: 2656.775+/-0.345 χ^2/NDF : 10369271.3/56

Out: 2686.557+/-0.341 χ^2/NDF : 10847617.8/61

All: 2671.813+/-0.242 χ^2/NDF : 21220660.2/131

diff_bpm0l03X_mean vs Slug, Sign Corrected



Right In: 10.510 ± 0.968 $\chi^2/\text{NDF}: 169.0/33$

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

Right Out: -4.697 ± 0.984 $\chi^2/\text{NDF}: 348.6/36$

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

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

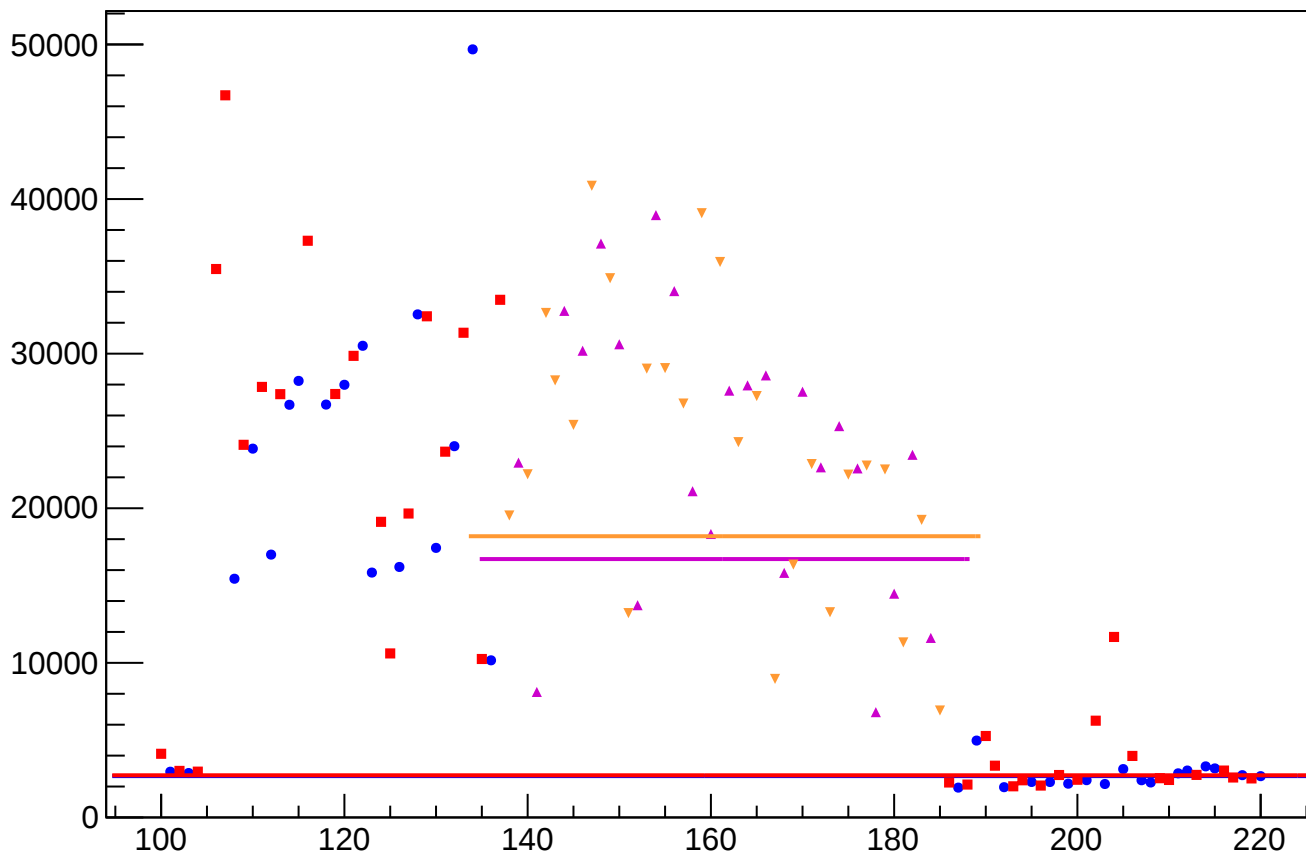
Right: 3.028 ± 0.690 $\chi^2/\text{NDF}: 639.0/70$

In: 10.580 ± 0.951 $\chi^2/\text{NDF}: 184.5/56$

Out: -4.290 ± 0.966 $\chi^2/\text{NDF}: 370.1/61$

All: 3.262 ± 0.677 $\chi^2/\text{NDF}: 675.1/118$

diff_bpm0l03X_rms vs Slug, Sign Corrected



Right In: 2674.601 ± 0.685 $\chi^2/\text{NDF}: 7047217.3/33$

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

Right Out: 2727.697 ± 0.696 $\chi^2/\text{NDF}: 9094363.6/36$

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

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

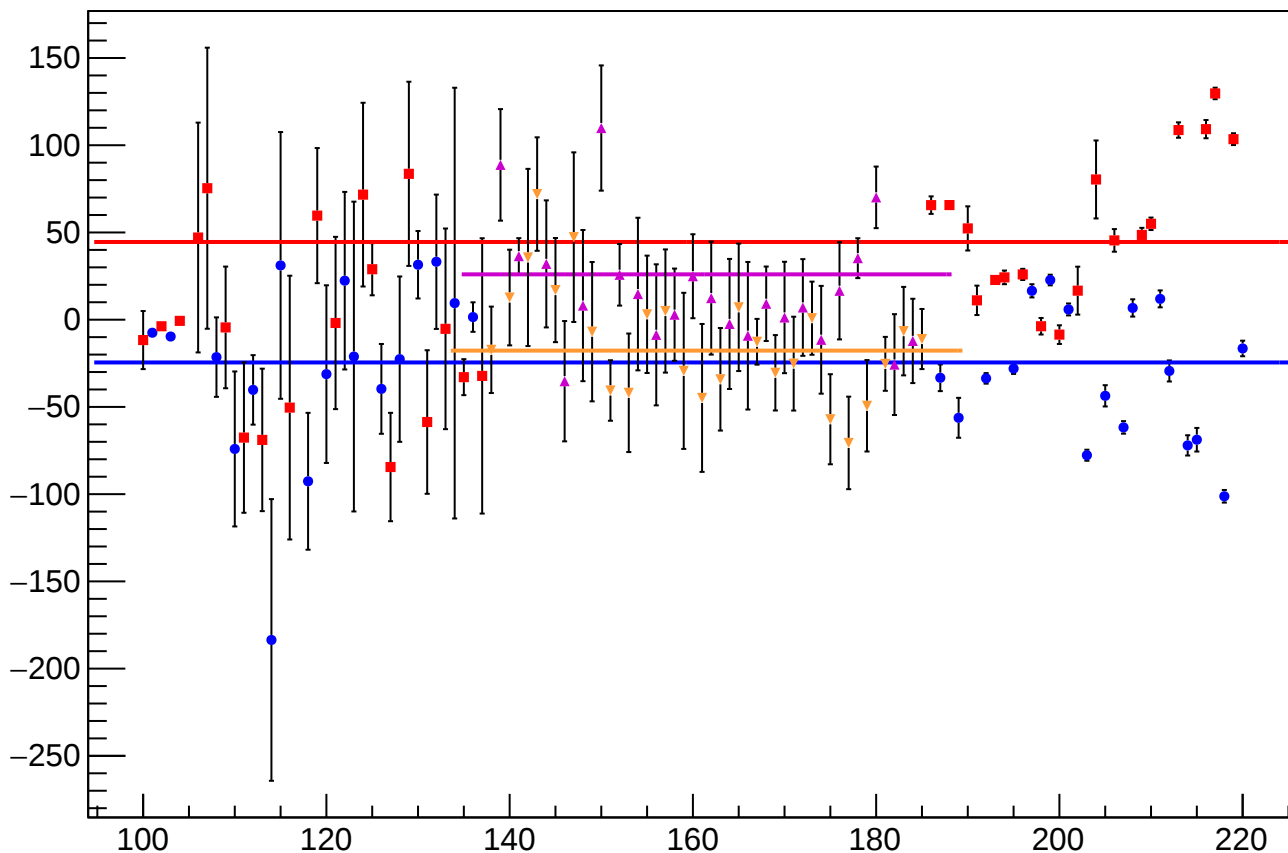
Right: 2700.725 ± 0.488 $\chi^2/\text{NDF}: 16144541.1/70$

In: 3176.958 ± 0.672 $\chi^2/\text{NDF}: 28292219.0/56$

Out: 3287.057 ± 0.683 $\chi^2/\text{NDF}: 32233346.0/61$

All: 3231.139 ± 0.479 $\chi^2/\text{NDF}: 60538767.9/111$

diff_bpm0l03Y_mean vs Slug, Sign Corrected



Right In: -24.512 $\pm$ 0.873 χ^2/NDF : 1621.7/33

Left Out: -17.717 $\pm$ 4.974 χ^2/NDF :27.2/24

Right Out: 44.545 $\pm$ 0.884 χ^2/NDF : 2422.8/36

Left In: 25.991 $\pm$ 4.789 χ^2/NDF :32.6/22

Left: 4.967 $\pm$ 3.450 χ^2/NDF : 99.8/47

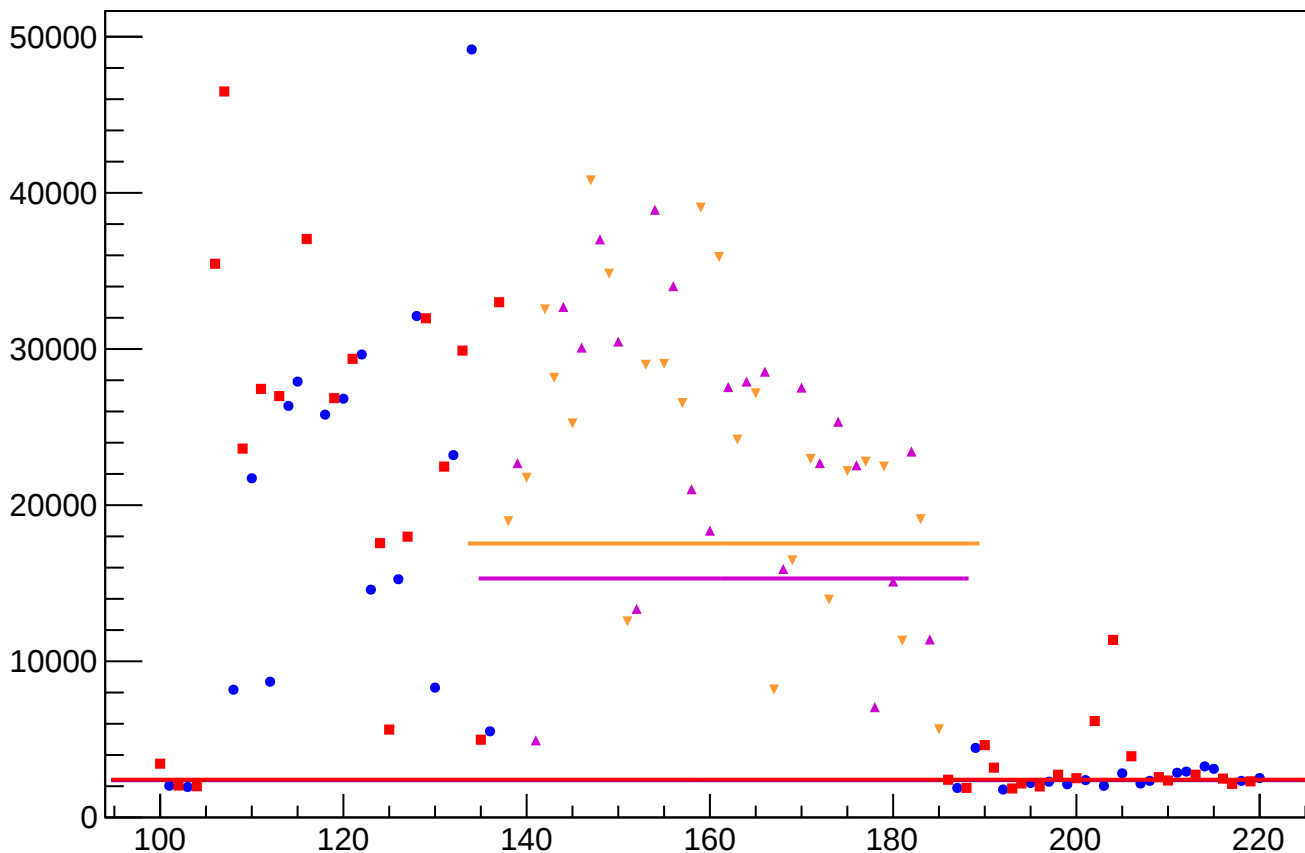
Right: 9.568 $\pm$ 0.621 χ^2/NDF : 7132.6/70

In: -22.888 $\pm$ 0.859 χ^2/NDF :1761.9/56

Out: 42.637 $\pm$ 0.871 χ^2/NDF :2601.8/61

All: 9.423 $\pm$ 0.611 χ^2/NDF : 7234.1/118

diff_bpm0l03Y_rms vs Slug, Sign Corrected



Right In: 2389.606 ± 0.617 $\chi^2/\text{NDF}: 5930718.5/33$

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

Right Out: 2417.266 ± 0.625 $\chi^2/\text{NDF}: 8776493.5/36$

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

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

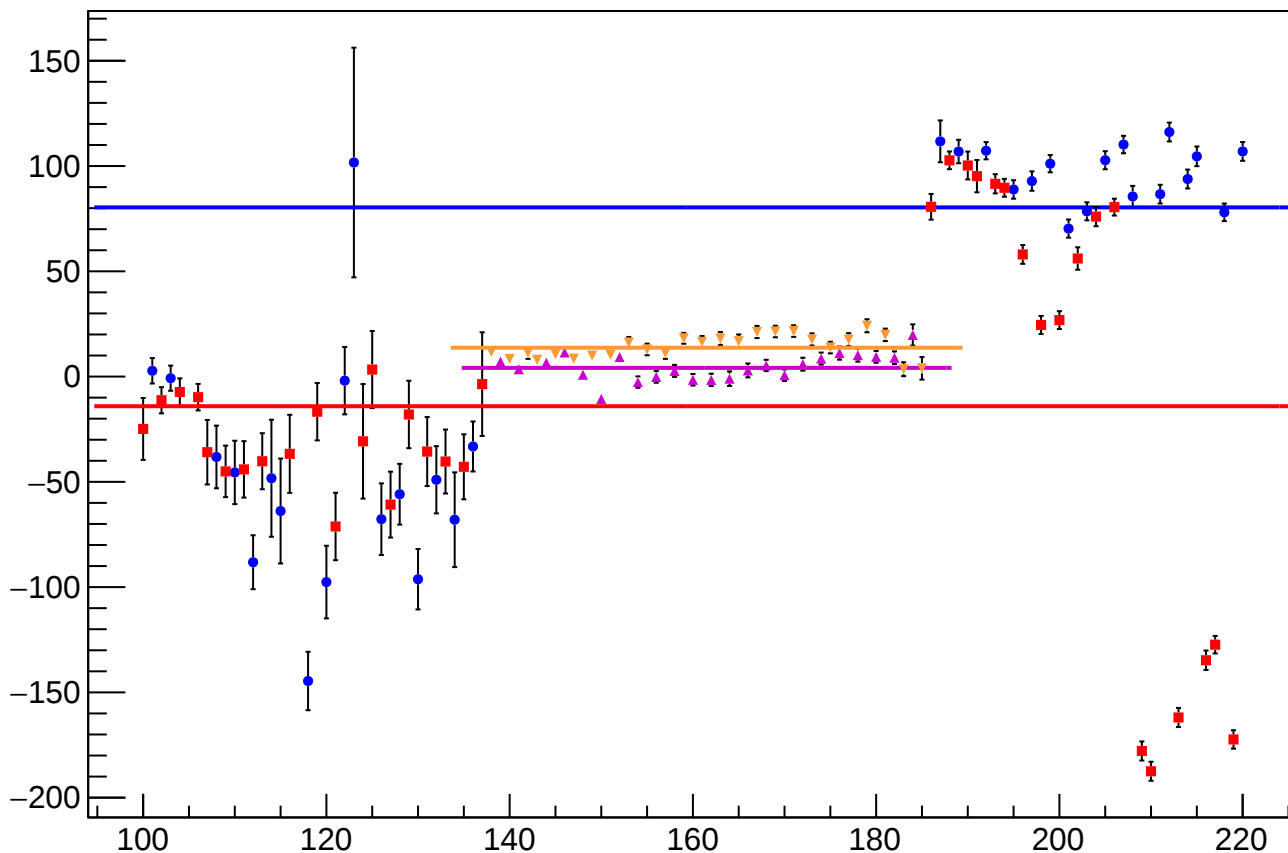
Right: 2403.256 ± 0.439 $\chi^2/\text{NDF}: 14708202.9/70$

In: 2804.997 ± 0.607 $\chi^2/\text{NDF}: 27731841.0/56$

Out: 2880.859 ± 0.616 $\chi^2/\text{NDF}: 32613128.0/61$

All: 2842.405 ± 0.432 $\chi^2/\text{NDF}: 60352664.0/100$

diff_bpm0l04X_mean vs Slug, Sign Corrected



Right In: 80.362 $\pm$ 1.033 χ^2/NDF : 1959.5/33

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

Right Out: -14.082 $\pm$ 1.012 χ^2/NDF : 10816.3/36

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

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

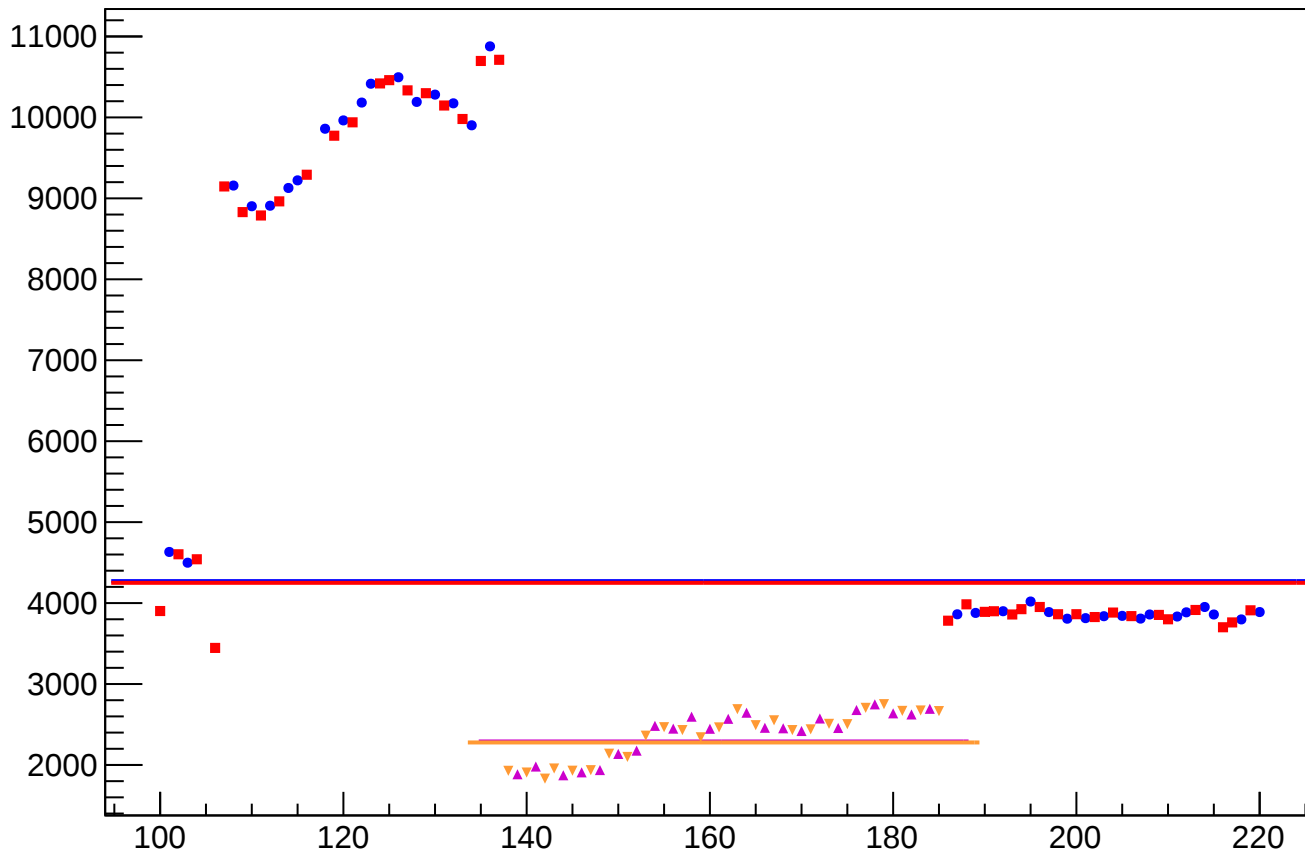
Right: 32.163 $\pm$ 0.723 χ^2/NDF : 17037.8/70

In: 21.193 $\pm$ 0.489 χ^2/NDF :6293.7/56

Out: 7.638 $\pm$ 0.473 χ^2/NDF :11495.2/61

All: 14.195 $\pm$ 0.340 χ^2/NDF : 18185.9/118

diff_bpm0l04X_rms vs Slug, Sign Corrected



Right In: 4271.427+/-0.731 χ^2/NDF : 3908518.6/33

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

Right Out: 4250.361+/-0.716 χ^2/NDF : 3948145.7/36

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

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

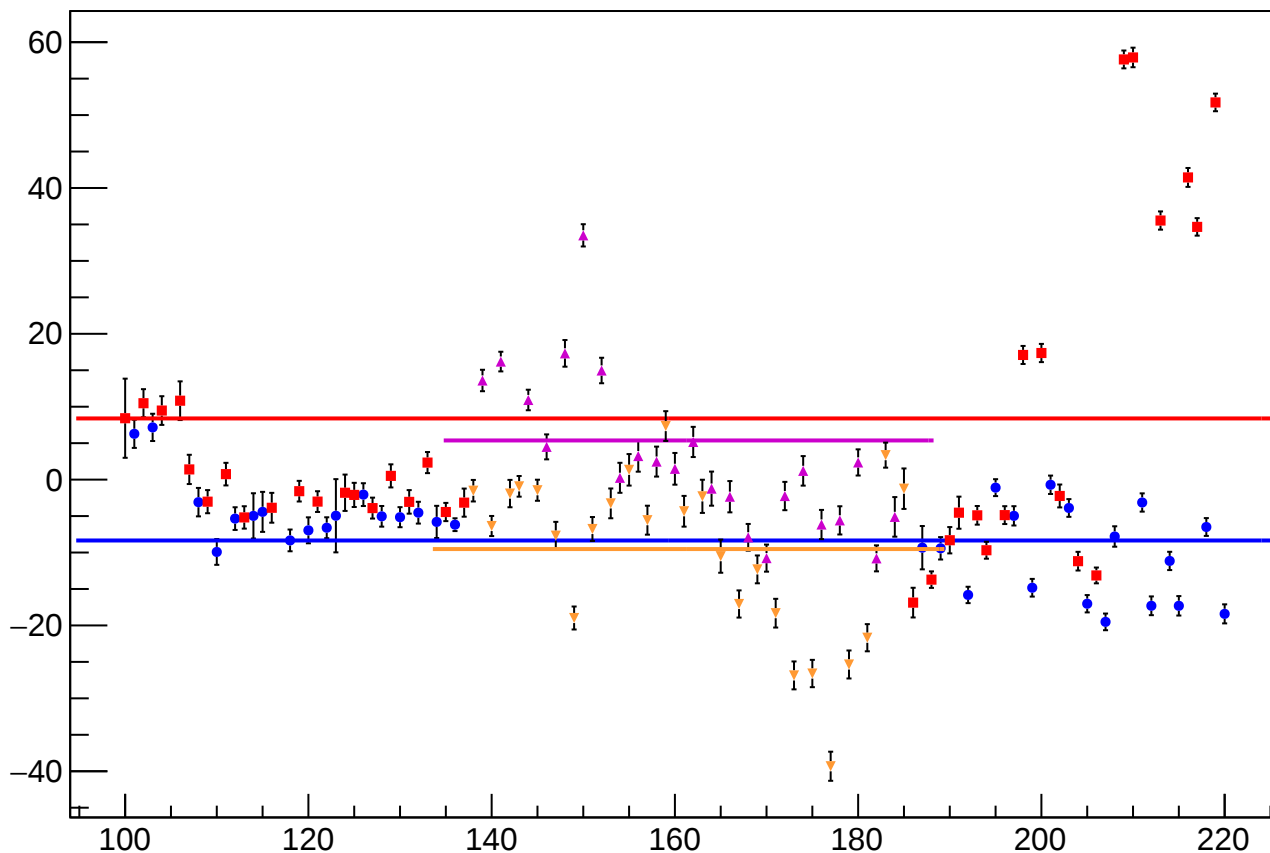
Right: 4260.676+/-0.511 χ^2/NDF : 7857088.4/70

In: 2733.634+/-0.346 χ^2/NDF : 10203136.3/56

Out: 2709.027+/-0.335 χ^2/NDF : 10488129.8/61

All: 2720.931+/-0.240 χ^2/NDF : 20693882.7/113

diff_bpm0l04Y_mean vs Slug, Sign Corrected



Right In: -8.349 ± 0.244 $\chi^2/\text{NDF}: 680.2/33$

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

Right Out: 8.391 ± 0.241 $\chi^2/\text{NDF}: 8454.4/36$

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

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

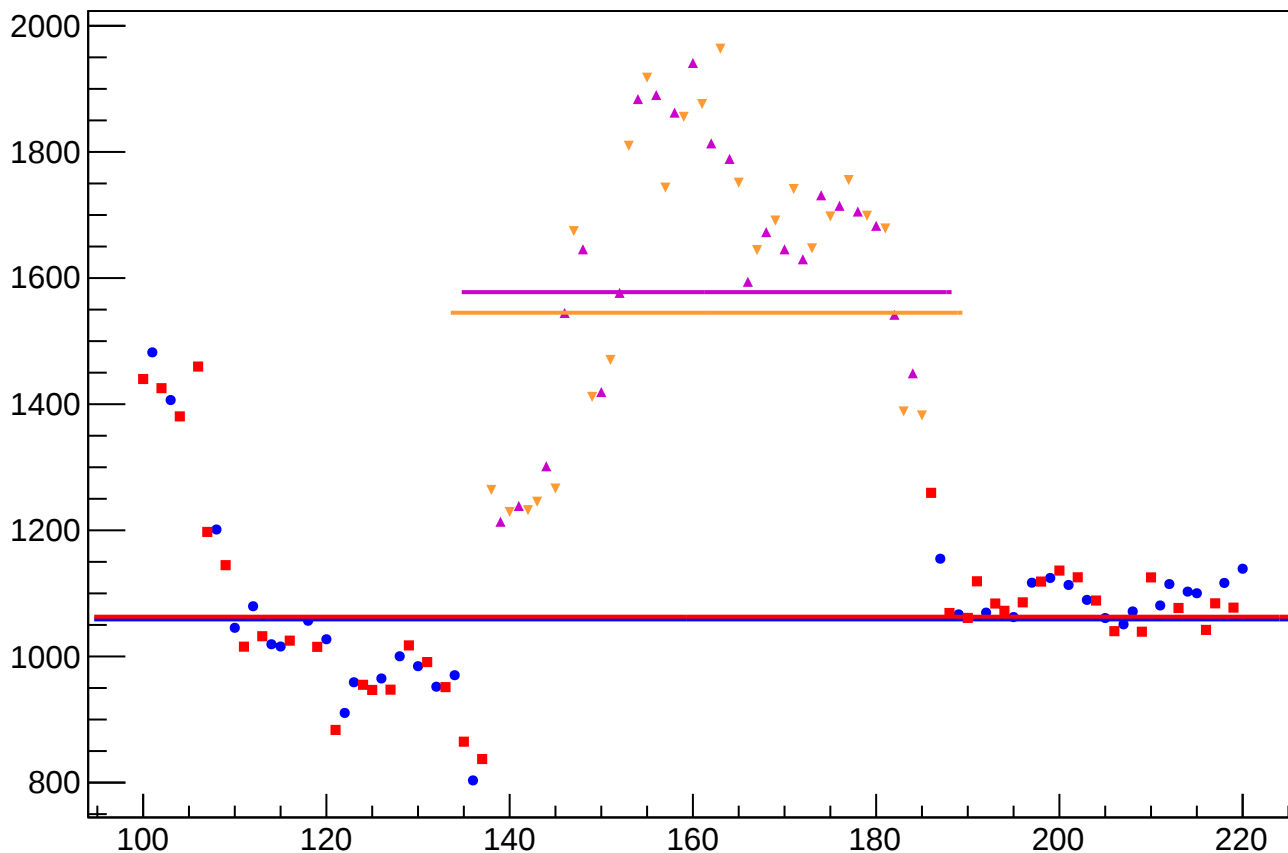
Right: 0.116 ± 0.172 $\chi^2/\text{NDF}: 11511.2/70$

In: -4.382 ± 0.206 $\chi^2/\text{NDF}: 2462.9/56$

Out: 2.934 ± 0.201 $\chi^2/\text{NDF}: 11015.8/61$

All: -0.642 ± 0.144 $\chi^2/\text{NDF}: 14124.3/118$

diff_bpm0l04Y_rms vs Slug, Sign Corrected



Right In: 1058.756 $\pm$ 0.173 χ^2 /NDF: 437248.7/33

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

Right Out: 1063.046 $\pm$ 0.171 χ^2 /NDF: 394596.1/36

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

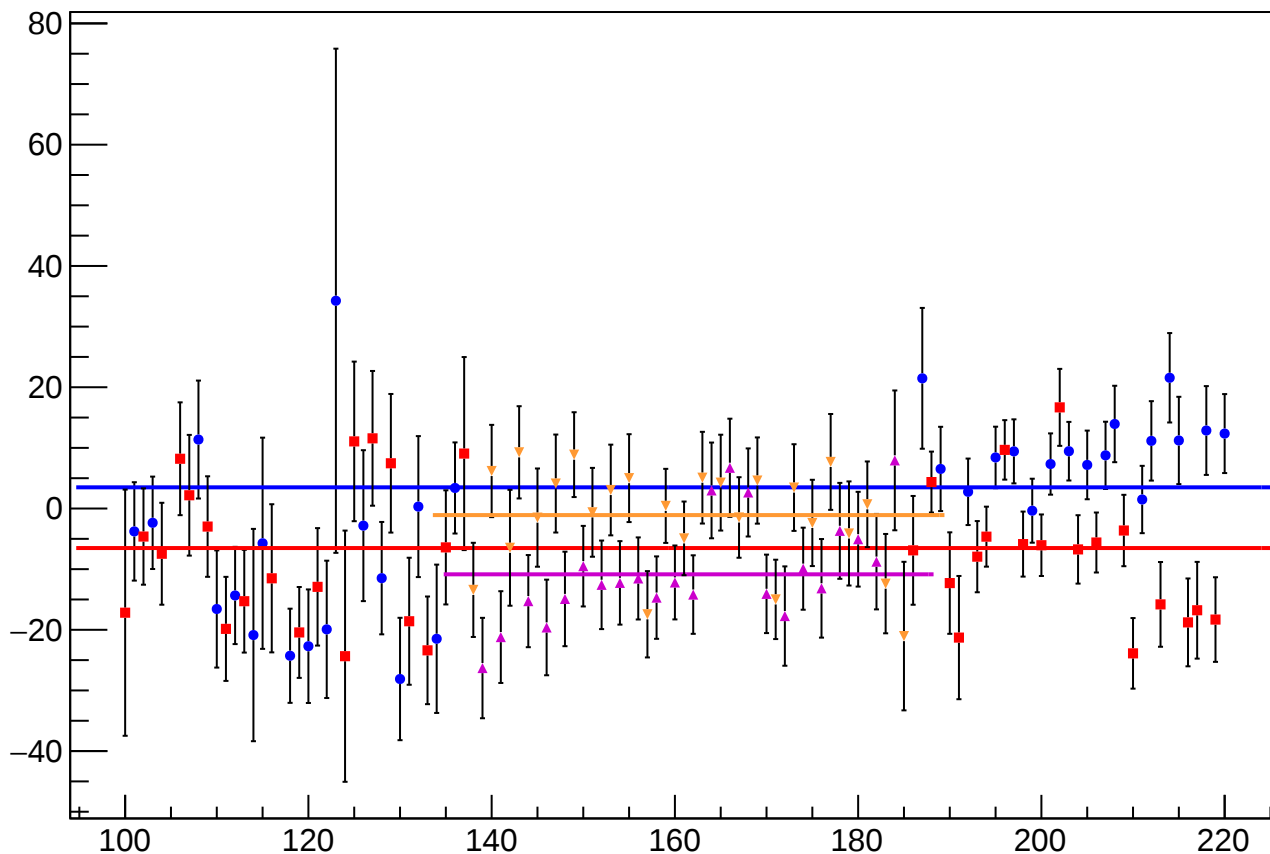
Right: 1060.926 $\pm$ 0.121 χ^2 /NDF: 832157.0/70

In: 1208.771 $\pm$ 0.146 χ^2 /NDF: 3674139.5/56

Out: 1209.865 $\pm$ 0.142 χ^2 /NDF: 3665724.9/61

All: 1209.330 $\pm$ 0.102 χ^2 /NDF: 7339893.3/117

diff_bpm0l05X_mean vs Slug, Sign Corrected



Right In: 3.494 $\pm$ 1.240 χ^2/NDF : 79.6/33

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

Right Out: -6.518 $\pm$ 1.209 χ^2/NDF : 74.0/36

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

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

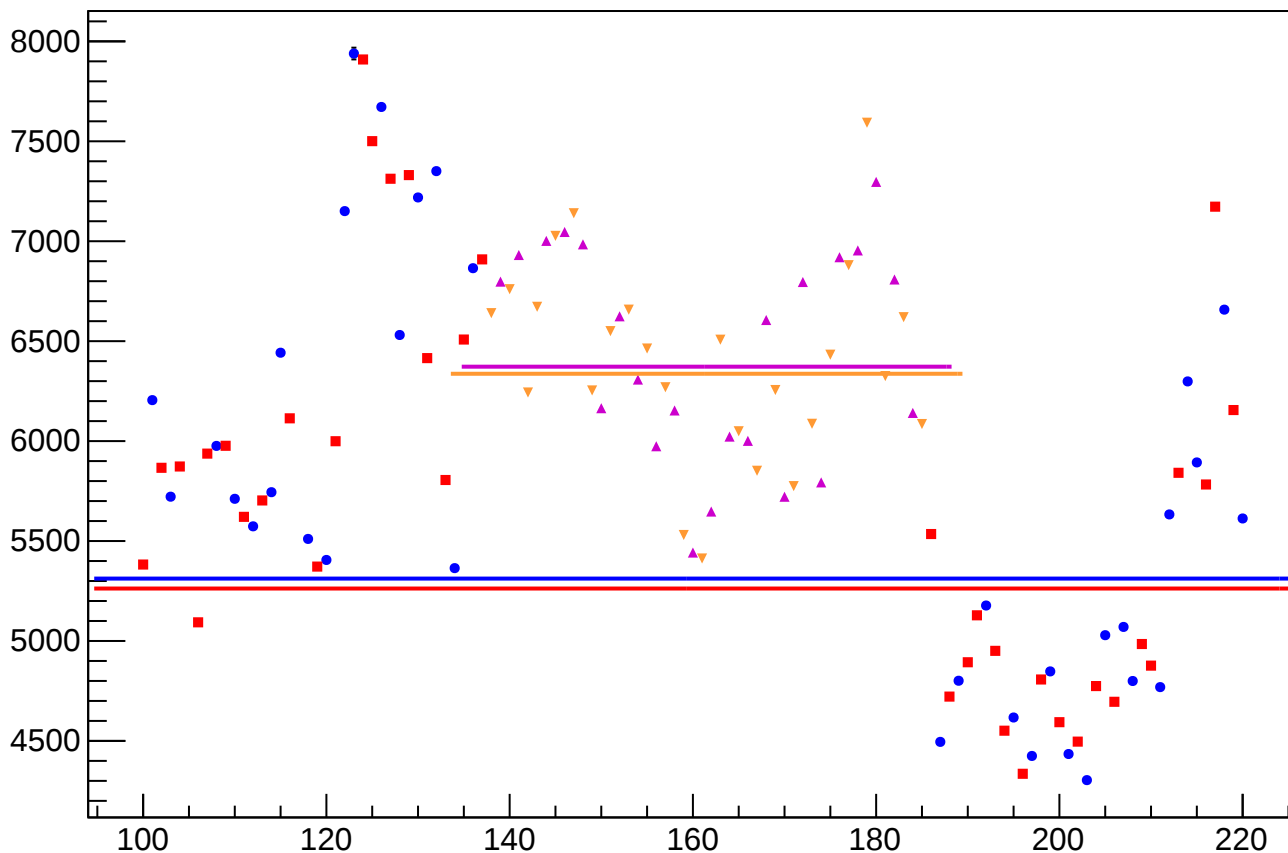
Right: -1.640 $\pm$ 0.865 χ^2/NDF : 187.0/70

In: -2.140 $\pm$ 0.966 χ^2/NDF : 156.5/56

Out: -4.357 $\pm$ 0.938 χ^2/NDF : 109.6/61

All: -3.281 $\pm$ 0.673 χ^2/NDF : 268.8/118

diff_bpm0l05X_rms vs Slug, Sign Corrected



Right In: 5312.155 ± 0.877 $\chi^2/\text{NDF}: 887230.7/33$

Left Out: 6336.876 ± 1.052 $\chi^2/\text{NDF}: 222912.5/24$

Right Out: 5262.372 ± 0.855 $\chi^2/\text{NDF}: 841843.9/36$

Left In: 6372.349 ± 1.090 $\chi^2/\text{NDF}: 247257.0/22$

Left: 6353.974 ± 0.757 $\chi^2/\text{NDF}: 470718.0/47$

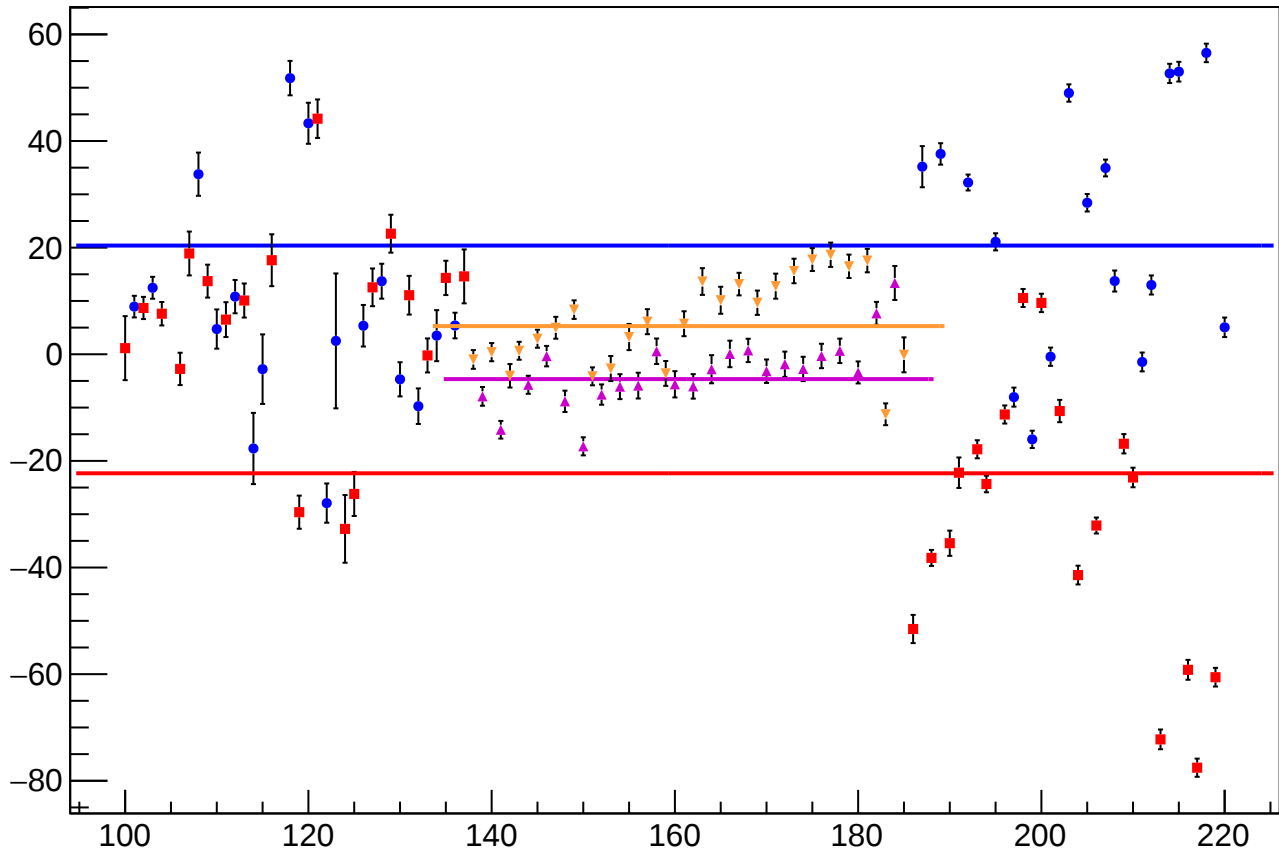
Right: 5286.628 ± 0.612 $\chi^2/\text{NDF}: 1730728.2/70$

In: 5728.526 ± 0.683 $\chi^2/\text{NDF}: 1708893.1/56$

Out: 5689.731 ± 0.663 $\chi^2/\text{NDF}: 1693579.5/61$

All: 5708.553 ± 0.476 $\chi^2/\text{NDF}: 3404132.9/11$

diff_bpm0l05Y_mean vs Slug, Sign Corrected



Right In: 20.389 ± 0.377 χ^2/NDF : 3434.7/33

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

Right Out: -22.324 ± 0.372 χ^2/NDF : 5756.5/36

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

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

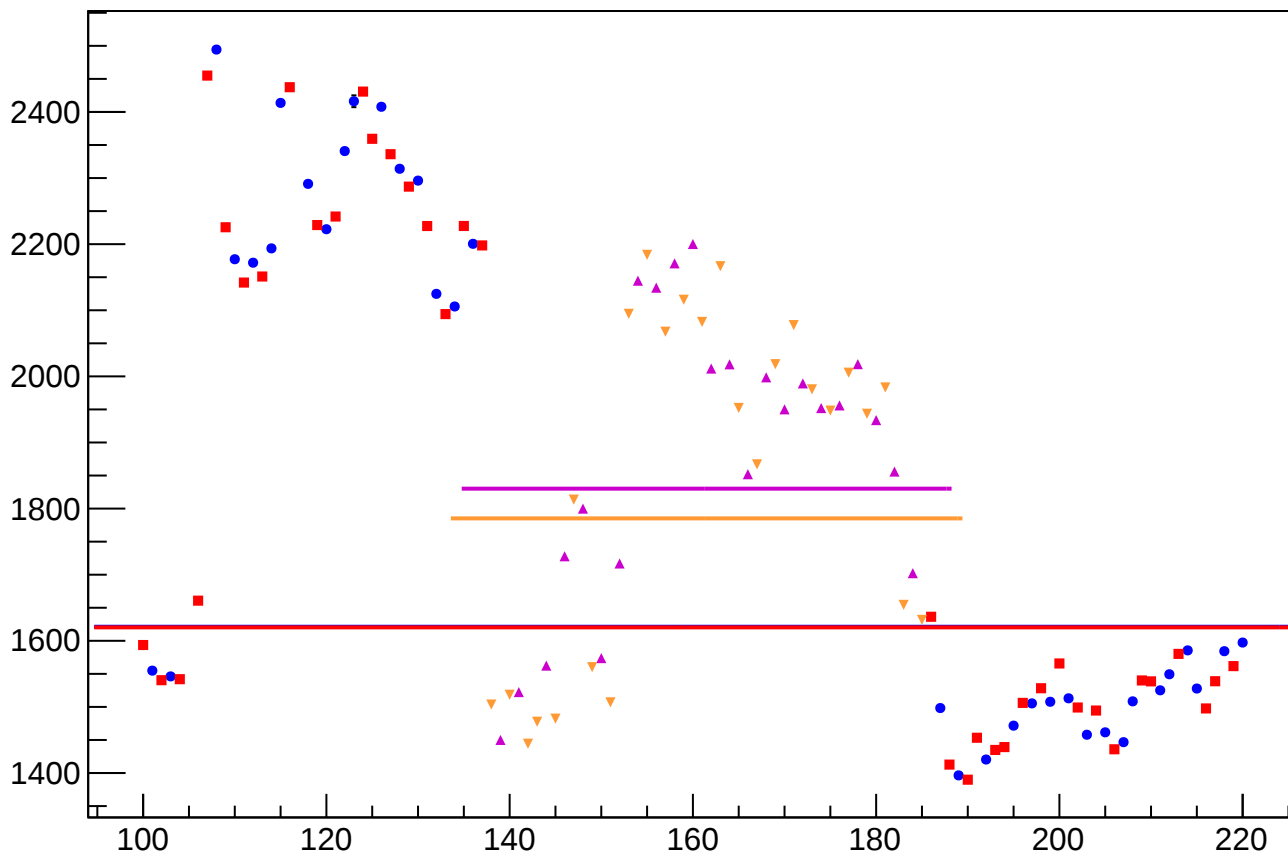
Right: -1.287 ± 0.265 χ^2/NDF : 15698.9/70

In: 9.872 ± 0.287 χ^2/NDF : 5482.7/56

Out: -10.224 ± 0.279 χ^2/NDF : 8541.9/61

All: -0.488 ± 0.200 χ^2/NDF : 16547.3/118

diff_bpm0l05Y_rms vs Slug, Sign Corrected



Right In: 1621.257 ± 0.267 $\chi^2/\text{NDF}: 1104476.5/33$

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

Right Out: 1620.326 ± 0.263 $\chi^2/\text{NDF}: 1114233.0/36$

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

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

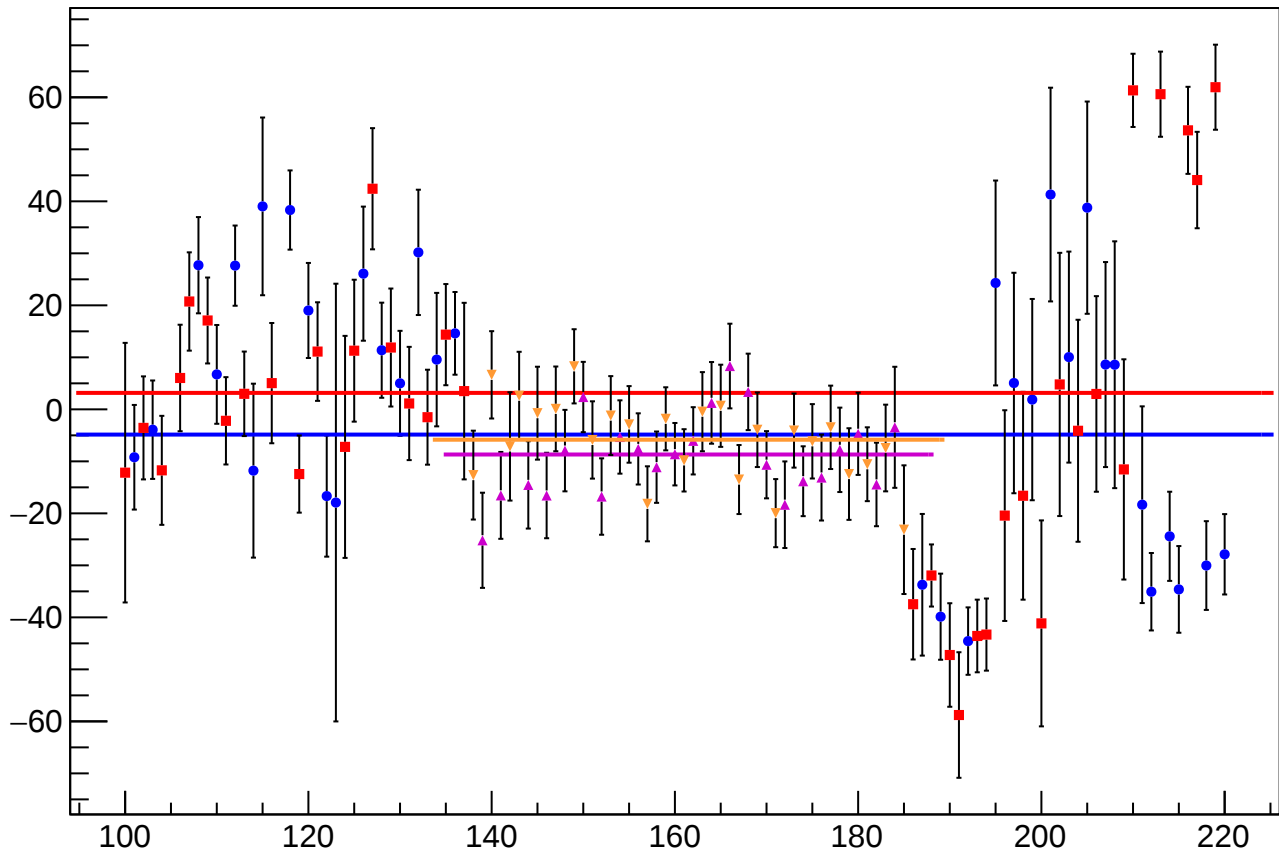
Right: 1620.785 ± 0.187 $\chi^2/\text{NDF}: 2218715.8/70$

In: 1708.976 ± 0.203 $\chi^2/\text{NDF}: 1870473.7/56$

Out: 1692.577 ± 0.197 $\chi^2/\text{NDF}: 2037379.1/61$

All: 1700.522 ± 0.141 $\chi^2/\text{NDF}: 3911212.2/111$

diff_bpm0l06X_mean vs Slug, Sign Corrected



Right In: -4.853 ± 1.815 $\chi^2/\text{NDF}: 230.2/33$

Left Out: -5.840 ± 1.518 $\chi^2/\text{NDF}: 23.3/24$

Right Out: 3.164 ± 1.651 $\chi^2/\text{NDF}: 452.8/36$

Left In: -8.683 ± 1.571 $\chi^2/\text{NDF}: 21.9/22$

Left: -7.214 ± 1.092 $\chi^2/\text{NDF}: 47.0/47$

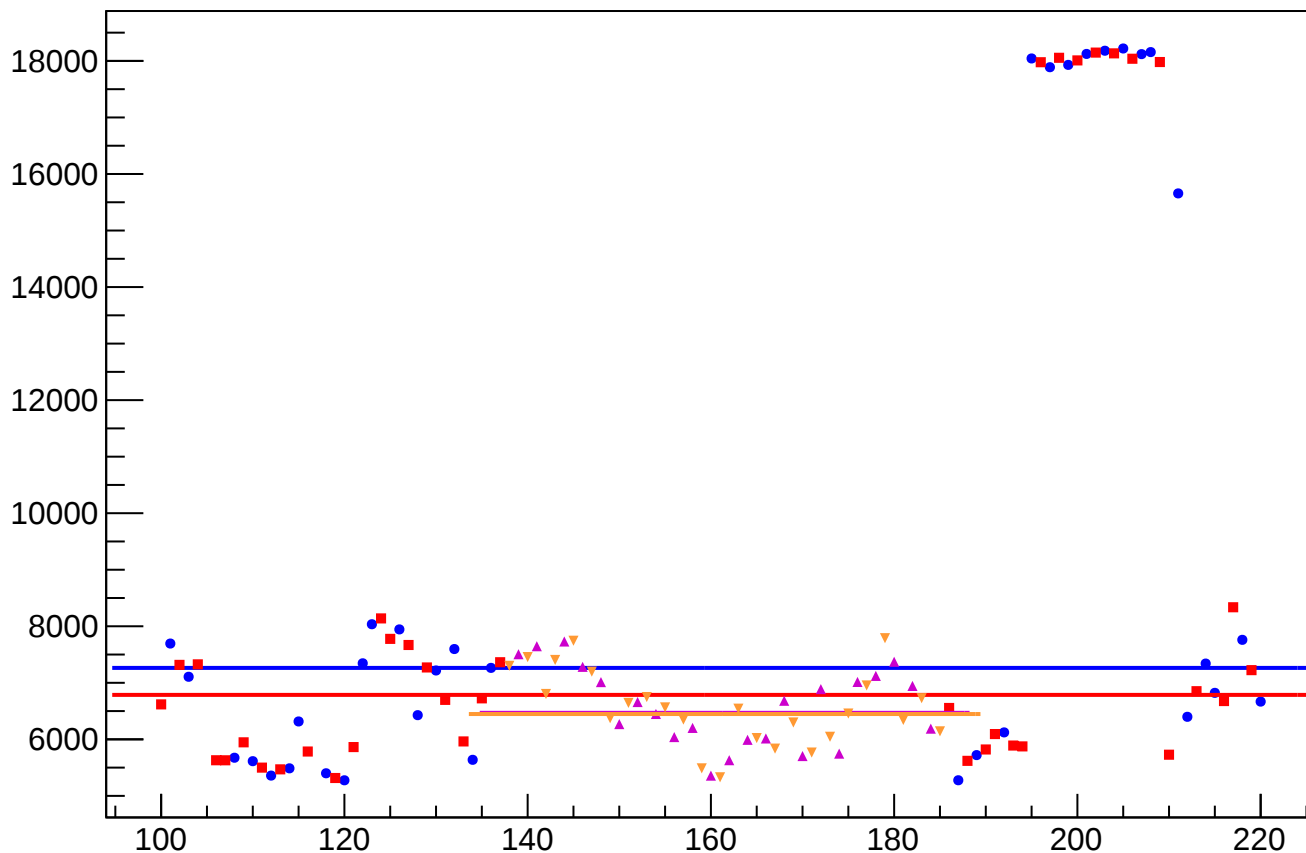
Right: -0.465 ± 1.221 $\chi^2/\text{NDF}: 693.6/70$

In: -7.044 ± 1.188 $\chi^2/\text{NDF}: 254.6/56$

Out: -1.714 ± 1.117 $\chi^2/\text{NDF}: 492.3/61$

All: -4.216 ± 0.814 $\chi^2/\text{NDF}: 757.6/118$

diff_bpm0l06X_rms vs Slug, Sign Corrected



Right In: 7263.625 ± 1.284 $\chi^2/\text{NDF}: 5615866.5/33$

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

Right Out: 6786.334 ± 1.167 $\chi^2/\text{NDF}: 4761415.5/36$

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

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

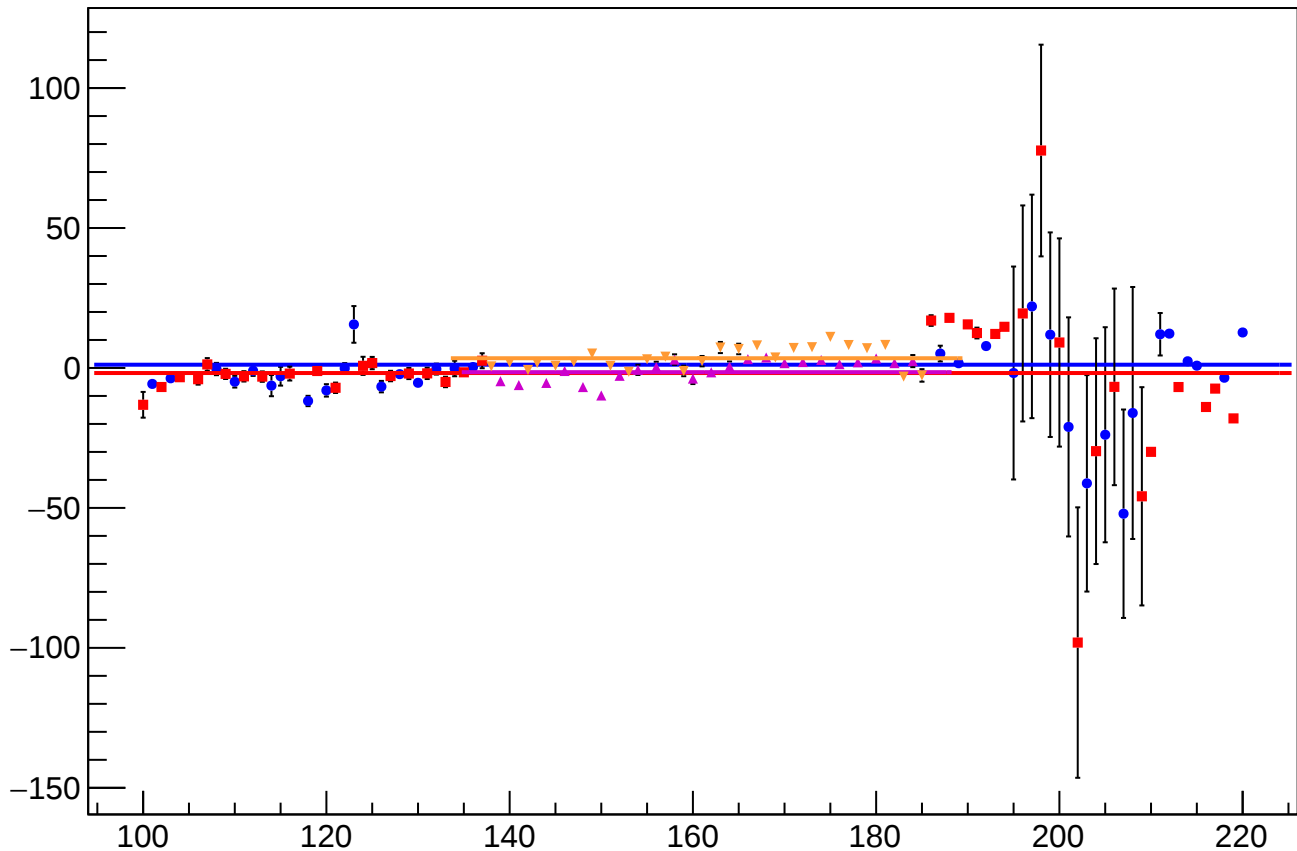
Right: 7002.367 ± 0.864 $\chi^2/\text{NDF}: 10452962.8/70$

In: 6809.121 ± 0.840 $\chi^2/\text{NDF}: 6218415.5/56$

Out: 6602.898 ± 0.790 $\chi^2/\text{NDF}: 5178678.0/61$

All: 6699.731 ± 0.576 $\chi^2/\text{NDF}: 11429075.7/131$

diff_bpm0l06Y_mean vs Slug, Sign Corrected



Right In: 1.161 ± 0.317 χ^2/NDF : 401.2/33

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

Right Out: -1.811 ± 0.290 χ^2/NDF : 1817.5/36

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

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

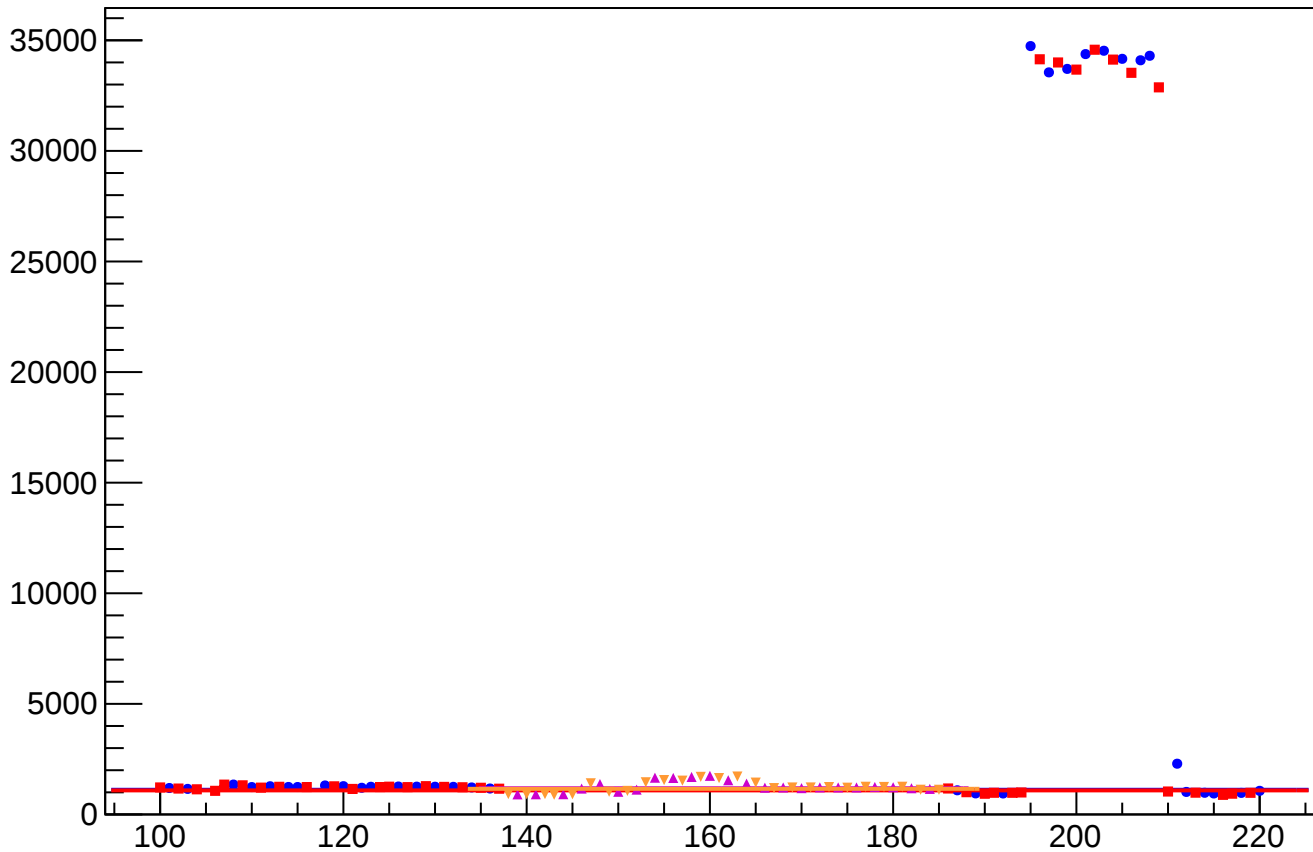
Right: -0.458 ± 0.214 χ^2/NDF : 2266.4/70

In: -0.288 ± 0.214 χ^2/NDF : 642.2/56

Out: 0.959 ± 0.200 χ^2/NDF : 2167.1/61

All: 0.378 ± 0.146 χ^2/NDF : 2827.4/118

diff_bpm0l06Y_rms vs Slug, Sign Corrected



Right In: 1115.399+/-0.224 χ^2/NDF : 11951401.6/33

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

Right Out: 1088.279+/-0.205 χ^2/NDF : 10274780.2/36

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

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

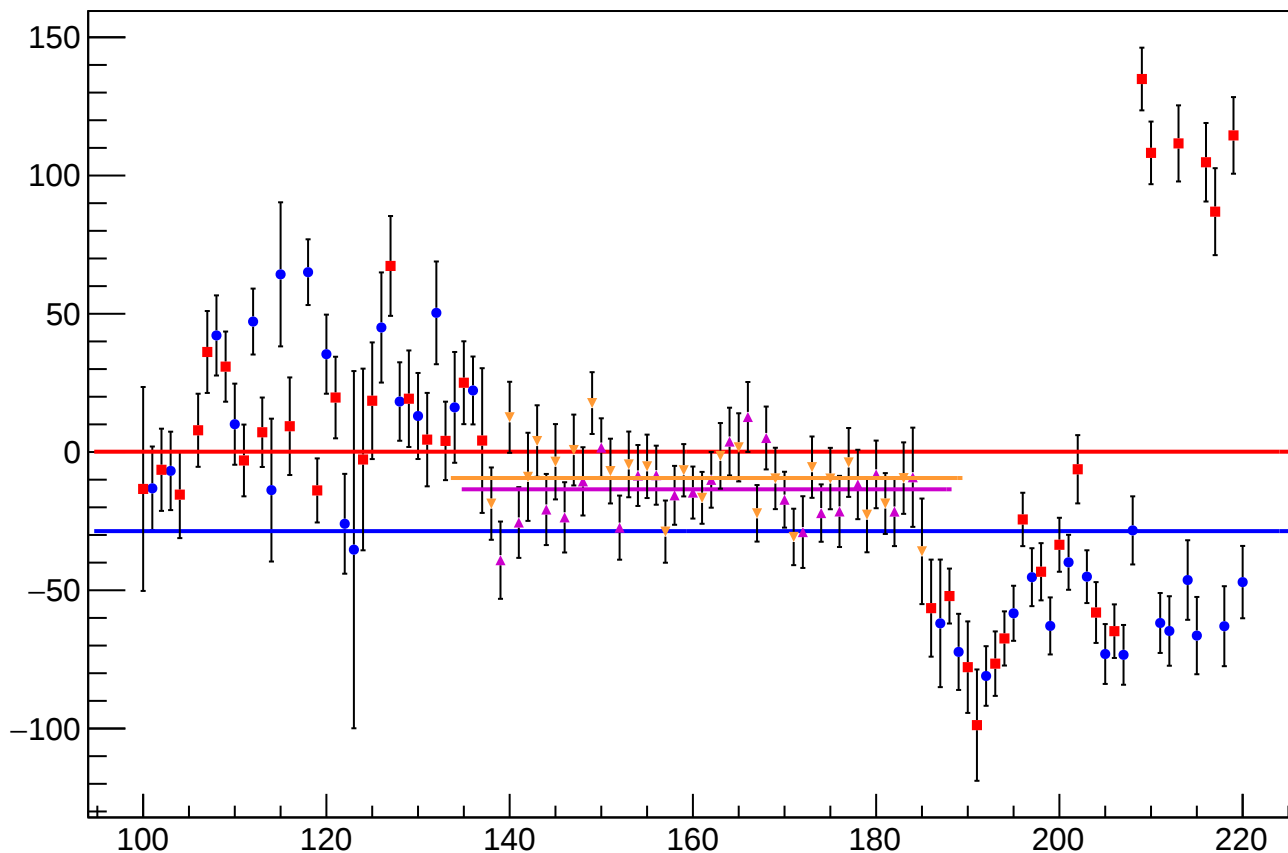
Right: 1100.627+/-0.151 χ^2/NDF : 22234132.5/70

In: 1153.243+/-0.152 χ^2/NDF : 13194083.6/56

Out: 1125.315+/-0.142 χ^2/NDF : 11747292.5/61

All: 1138.322+/-0.103 χ^2/NDF : 24959512.8/100

diff_bpm0l07X_mean vs Slug, Sign Corrected



Right In: -28.606 ± 2.281 χ^2/NDF : 372.3/33

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

Right Out: 0.120 ± 2.205 χ^2/NDF : 771.2/36

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

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

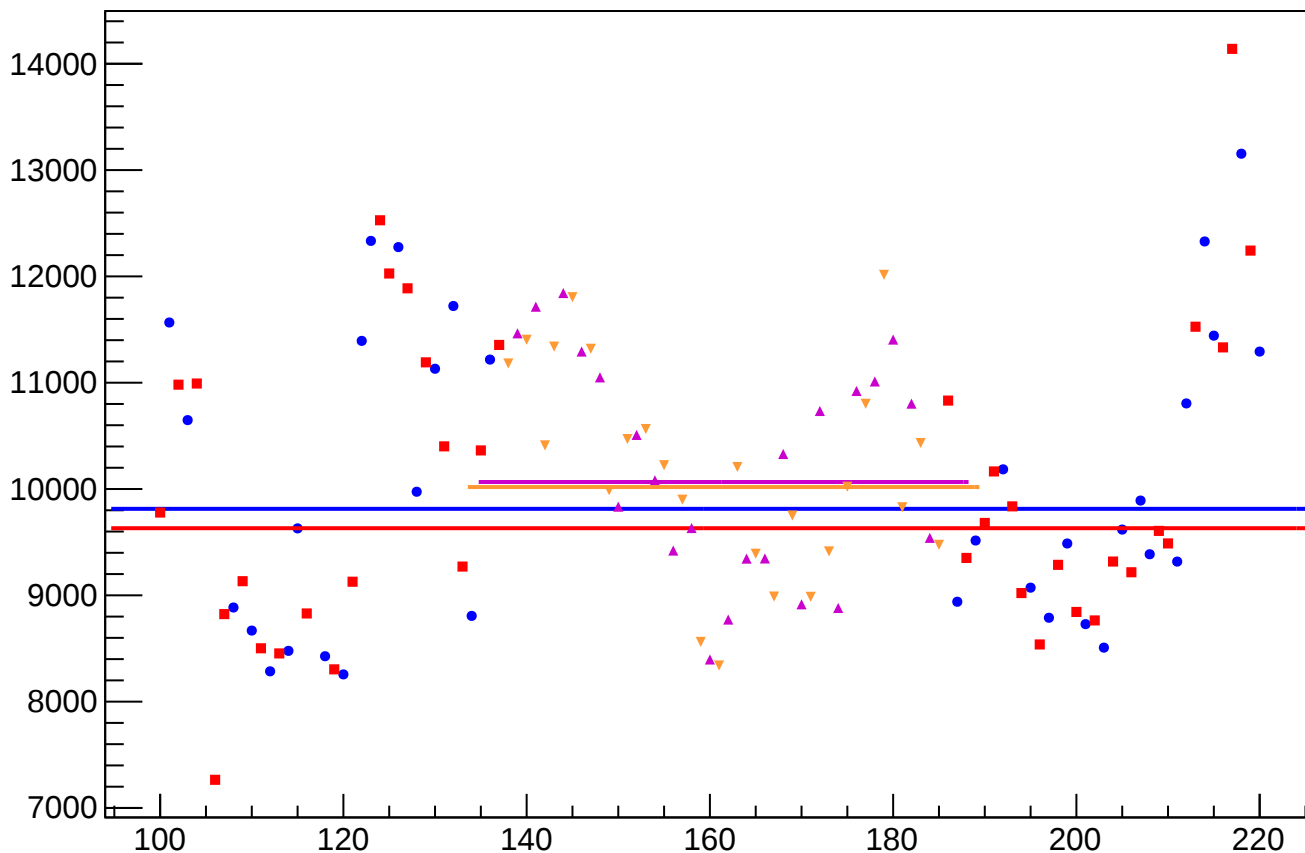
Right: -13.759 ± 1.585 χ^2/NDF : 1225.5/70

In: -21.563 ± 1.667 χ^2/NDF : 414.4/56

Out: -4.320 ± 1.611 χ^2/NDF : 806.1/61

All: -12.645 ± 1.158 χ^2/NDF : 1275.9/118

diff_bpm0l07X_rms vs Slug, Sign Corrected



Right In: 9813.596 ± 1.613 $\chi^2/\text{NDF}: 599090.8/33$

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

Right Out: 9631.342 ± 1.559 $\chi^2/\text{NDF}: 656735.9/36$

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

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

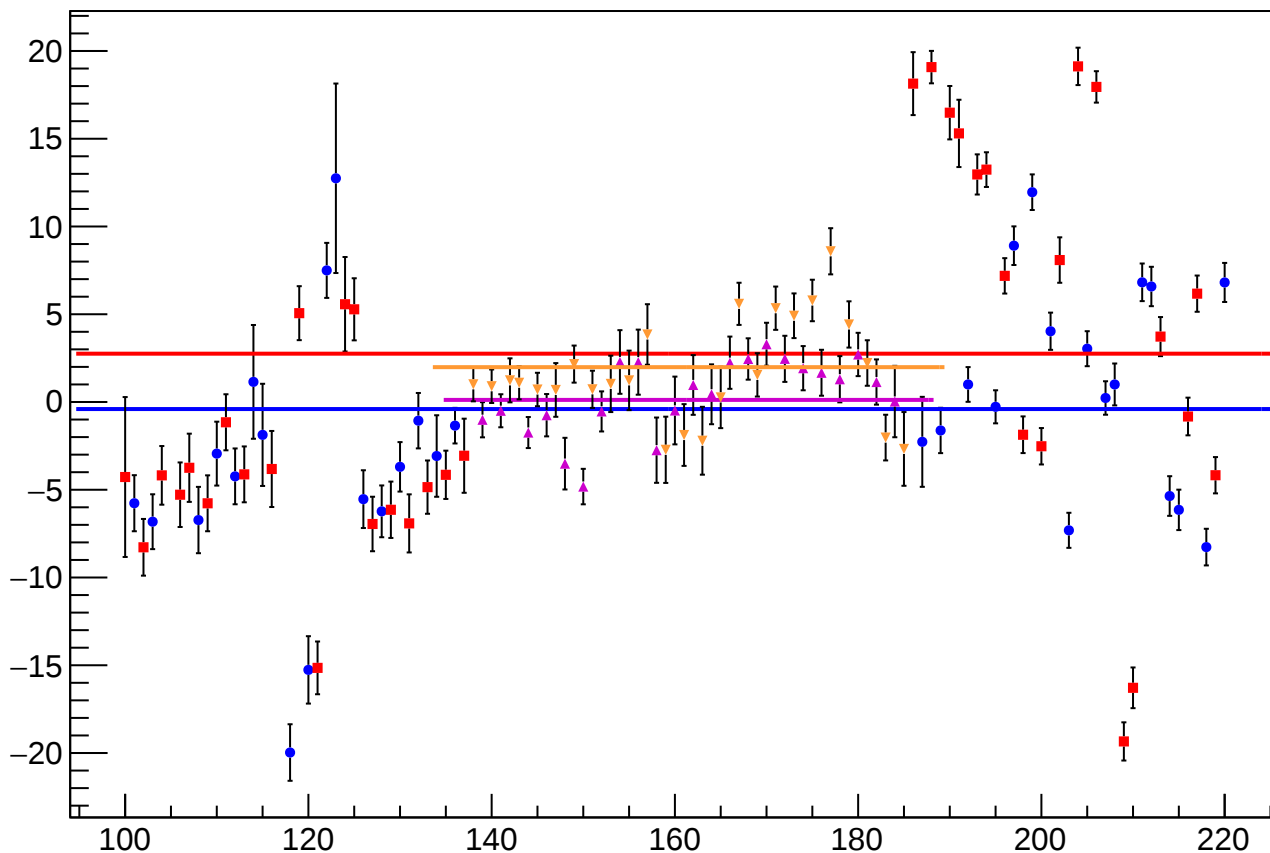
Right: 9719.397 ± 1.121 $\chi^2/\text{NDF}: 1262426.1/70$

In: 9931.120 ± 1.179 $\chi^2/\text{NDF}: 968358.1/56$

Out: 9811.976 ± 1.139 $\chi^2/\text{NDF}: 1030033.1/61$

All: 9869.500 ± 0.819 $\chi^2/\text{NDF}: 2003673.8/11$

diff_bpm0l07Y_mean vs Slug, Sign Corrected



Right In: -0.402±/0.222 χ^2/NDF : 849.0/33

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

Right Out: 2.753±/0.218 χ^2/NDF : 2525.5/36

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

Left: 1.102±/0.185 χ^2/NDF : 194.2/47

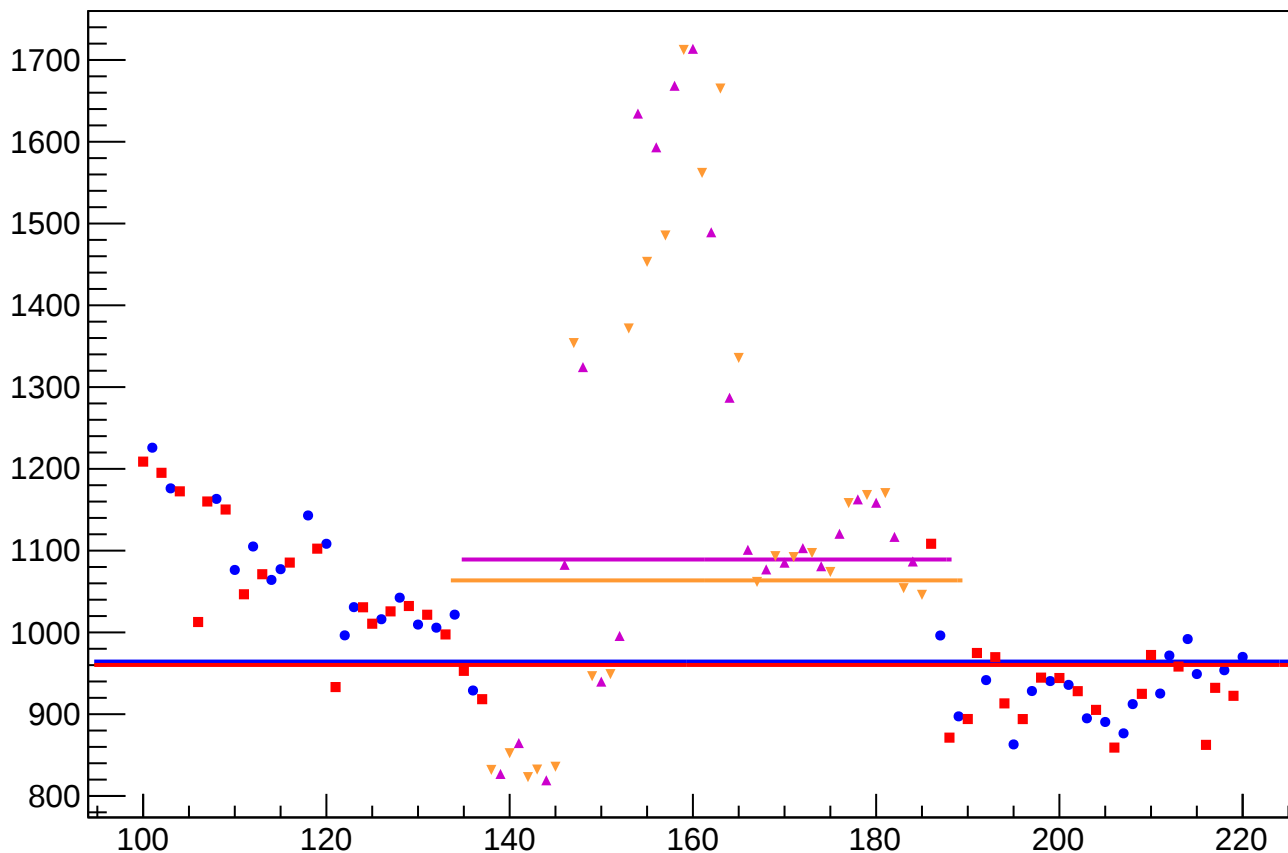
Right: 1.205±/0.155 χ^2/NDF : 3477.5/70

In: -0.190±/0.171 χ^2/NDF :918.9/56

Out: 2.429±/0.166 χ^2/NDF :2631.9/61

All: 1.162±/0.119 χ^2/NDF : 3671.8/118

diff_bpm0l07Y_rms vs Slug, Sign Corrected



Right In: 964.350 ± 0.157 χ^2/NDF : 272813.8/33

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

Right Out: 960.236 ± 0.154 χ^2/NDF : 292531.3/36

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

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

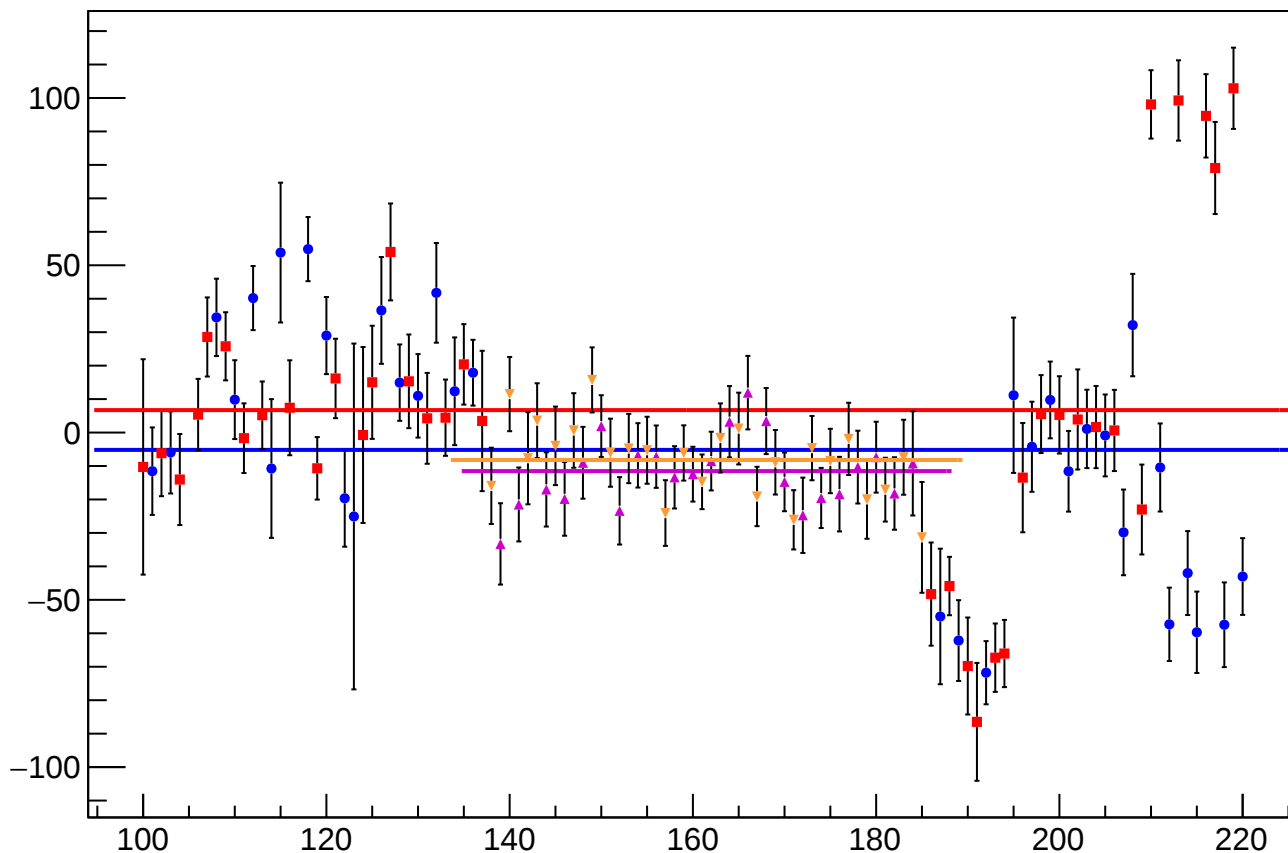
Right: 962.254 ± 0.110 χ^2/NDF : 565695.2/70

In: 1014.959 ± 0.121 χ^2/NDF : 1959814.9/56

Out: 1003.870 ± 0.117 χ^2/NDF : 2100083.2/61

All: 1009.232 ± 0.084 χ^2/NDF : 4064236.5/111

diff_bpm0l08X_mean vs Slug, Sign Corrected



Right In: -5.182 ± 2.178 χ^2/NDF : 291.6/33

Left Out: -8.195 ± 2.049 χ^2/NDF : 26.2/24

Right Out: 6.713 ± 2.043 χ^2/NDF : 524.5/36

Left In: -11.515 ± 2.122 χ^2/NDF : 21.0/22

Left: -9.796 ± 1.474 χ^2/NDF : 48.5/47

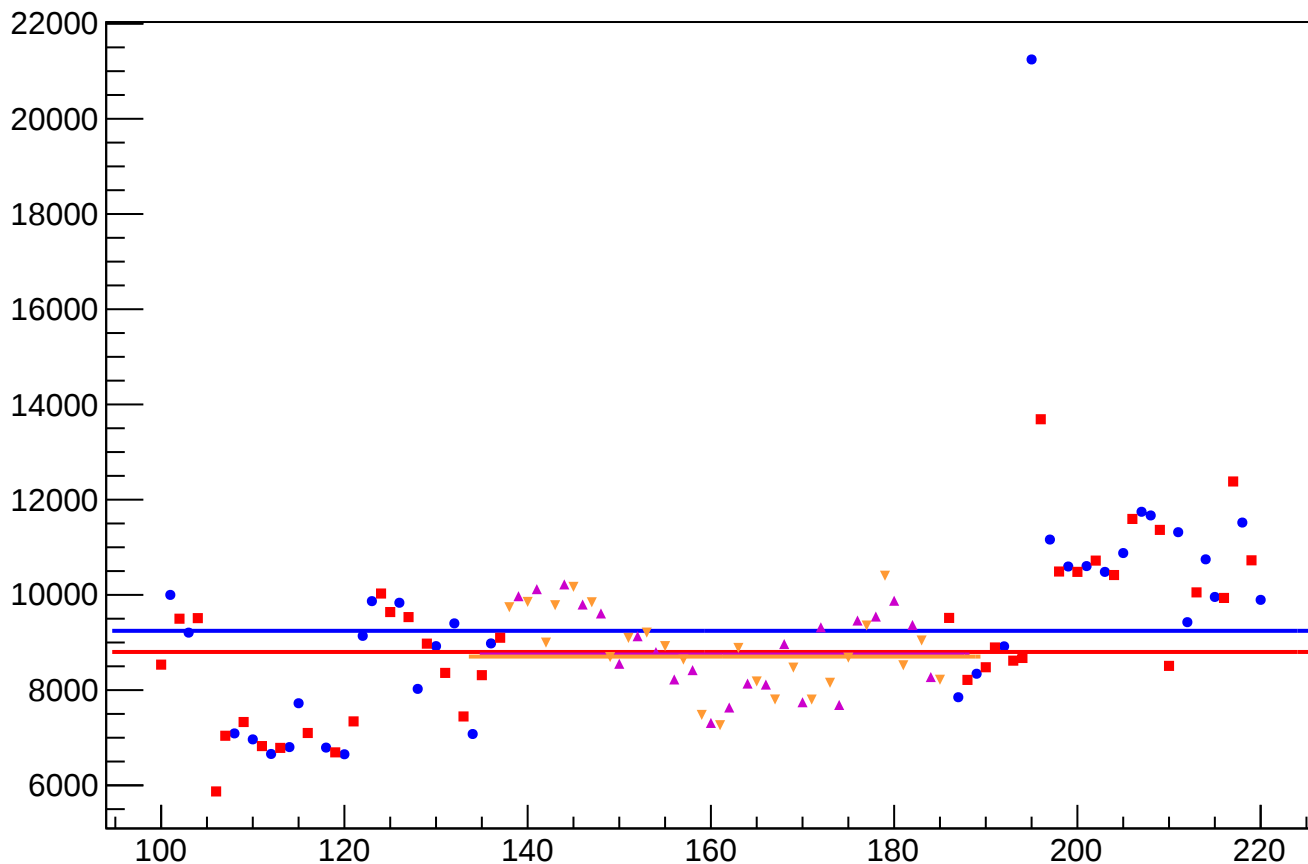
Right: 1.146 ± 1.490 χ^2/NDF : 831.9/70

In: -8.431 ± 1.520 χ^2/NDF : 316.9/56

Out: -0.720 ± 1.447 χ^2/NDF : 577.2/61

All: -4.385 ± 1.048 χ^2/NDF : 907.6/118

diff_bpm0l08X_rms vs Slug, Sign Corrected



Right In: 9245.171+/-1.540 χ^2/NDF : 1624982.8/33

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

Right Out: 8801.301+/-1.445 χ^2/NDF : 1360346.2/36

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

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

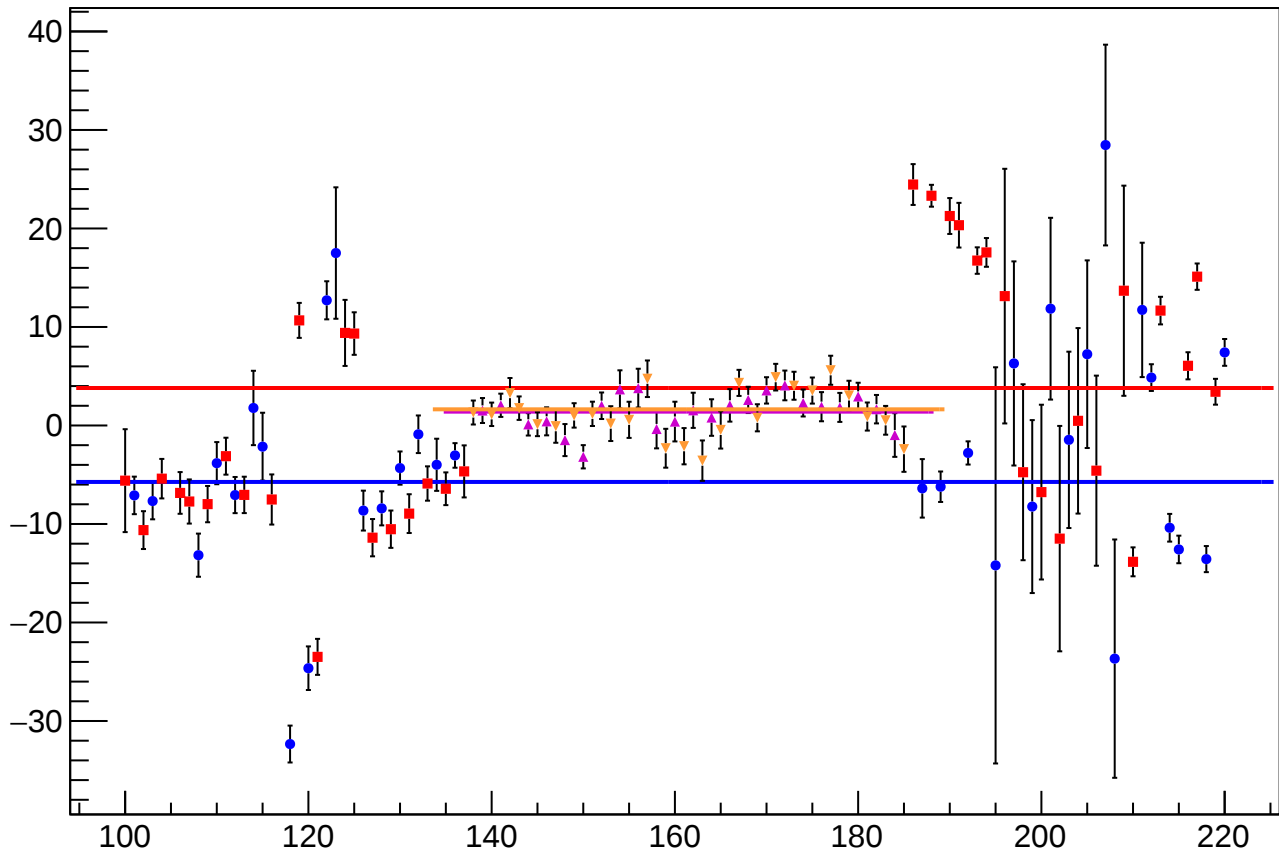
Right: 9009.037+/-1.054 χ^2/NDF : 3029510.6/70

In: 8989.828+/-1.075 χ^2/NDF : 2025668.7/56

Out: 8752.880+/-1.023 χ^2/NDF : 1694963.5/61

All: 8865.490+/-0.741 χ^2/NDF : 3746132.5/111

diff_bpm0l08Y_mean vs Slug, Sign Corrected



Right In: -5.732 $\pm$ 0.348 χ^2/NDF : 672.3/33

Left Out: 1.639 $\pm$ 0.294 χ^2/NDF : 51.3/24

Right Out: 3.804 $\pm$ 0.319 χ^2/NDF : 1723.4/36

Left In: 1.404 $\pm$ 0.309 χ^2/NDF : 34.1/22

Left: 1.528 $\pm$ 0.213 χ^2/NDF : 85.8/47

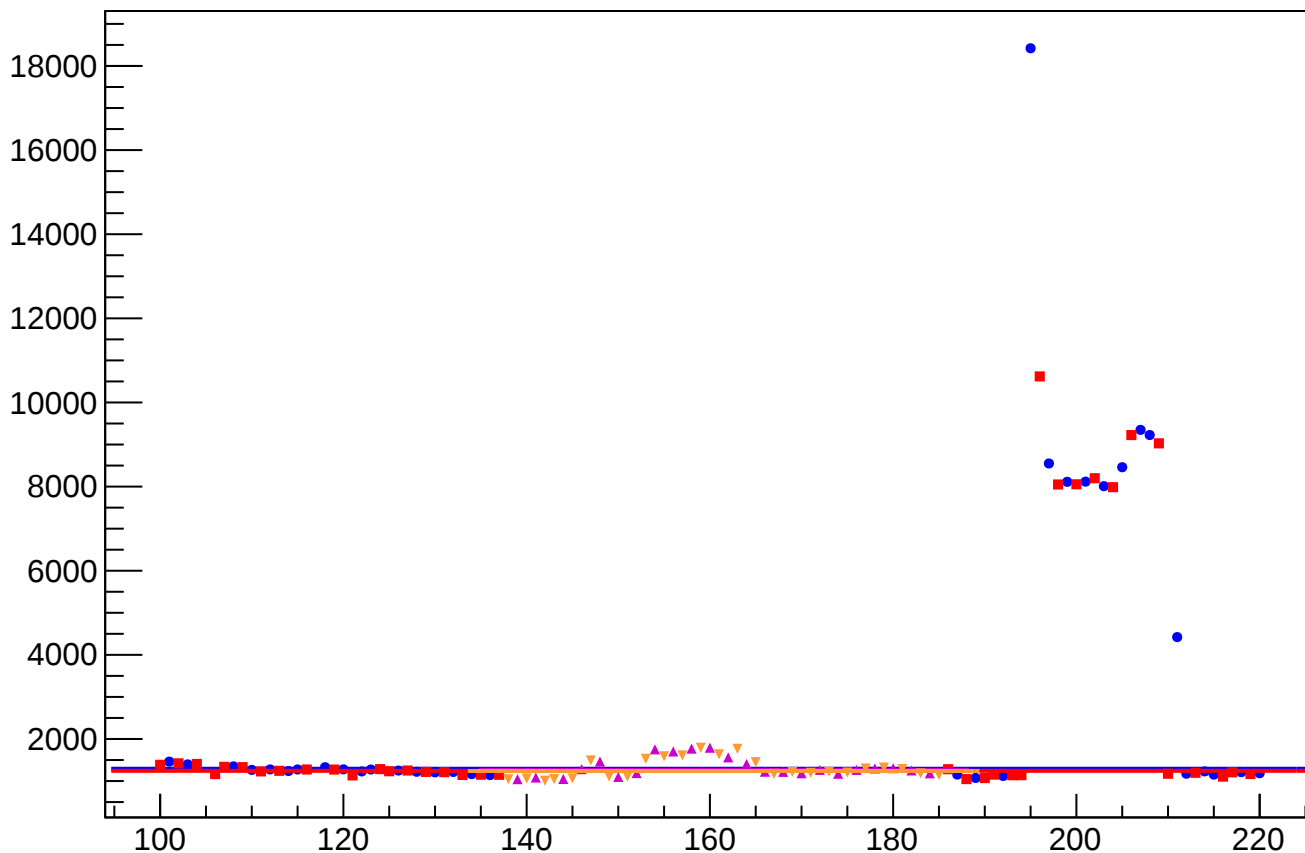
Right: -0.537 $\pm$ 0.235 χ^2/NDF : 2803.7/70

In: -1.737 $\pm$ 0.231 χ^2/NDF : 941.2/56

Out: 2.634 $\pm$ 0.216 χ^2/NDF : 1799.7/61

All: 0.598 $\pm$ 0.158 χ^2/NDF : 2931.8/118

diff_bpm0l08Y_rms vs Slug, Sign Corrected



Right In: 1292.416+/-0.246 χ^2/NDF : 9744911.2/33

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

Right Out: 1243.159+/-0.225 χ^2/NDF : 7800544.2/36

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

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

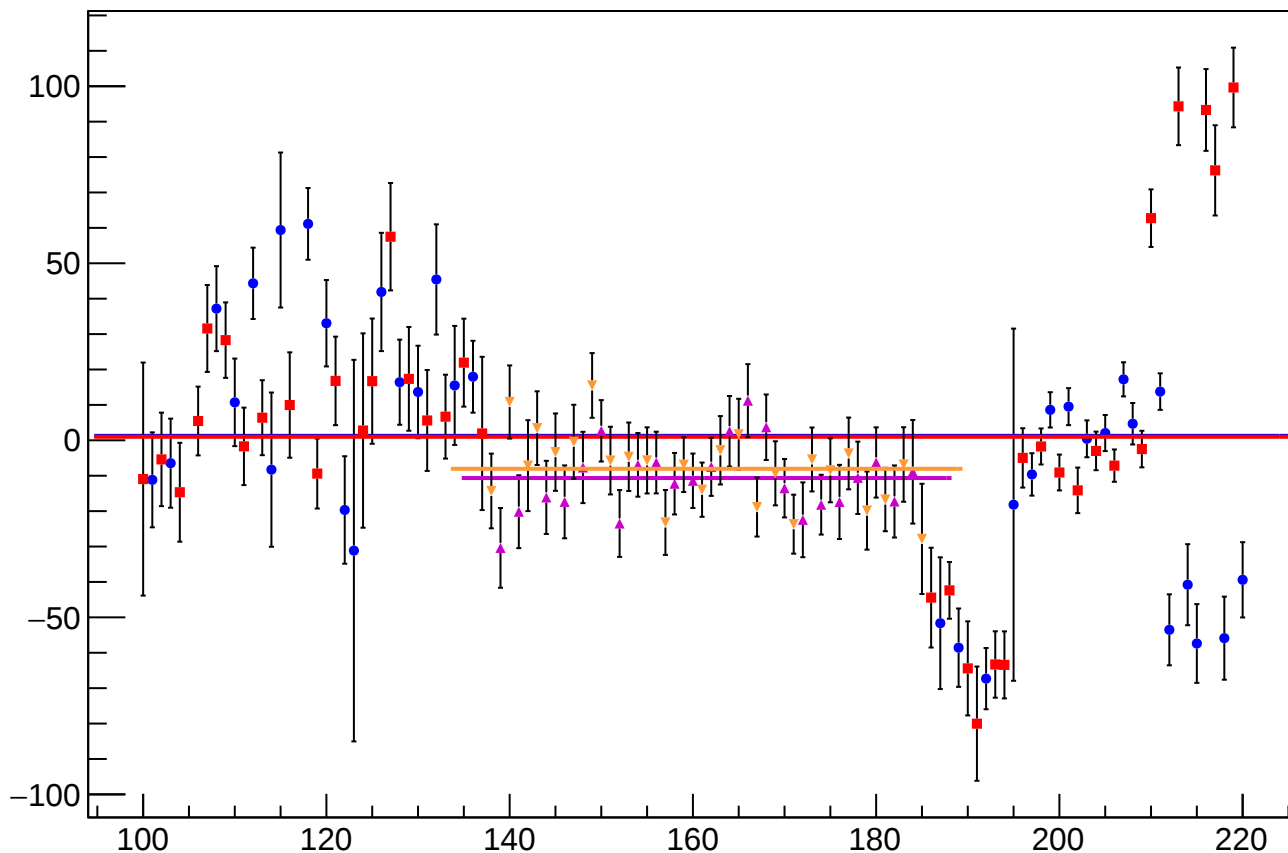
Right: 1265.585+/-0.166 χ^2/NDF : 17567222.7/70

In: 1277.444+/-0.163 χ^2/NDF : 10596662.9/56

Out: 1240.606+/-0.153 χ^2/NDF : 8765954.8/61

All: 1257.767+/-0.112 χ^2/NDF : 19389742.4/131

diff_bpm0l09X_mean vs Slug, Sign Corrected



Right In: 1.263 ± 1.489 $\chi^2/\text{NDF}: 335.3/33$

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

Right Out: 1.002 ± 1.502 $\chi^2/\text{NDF}: 539.9/36$

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

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

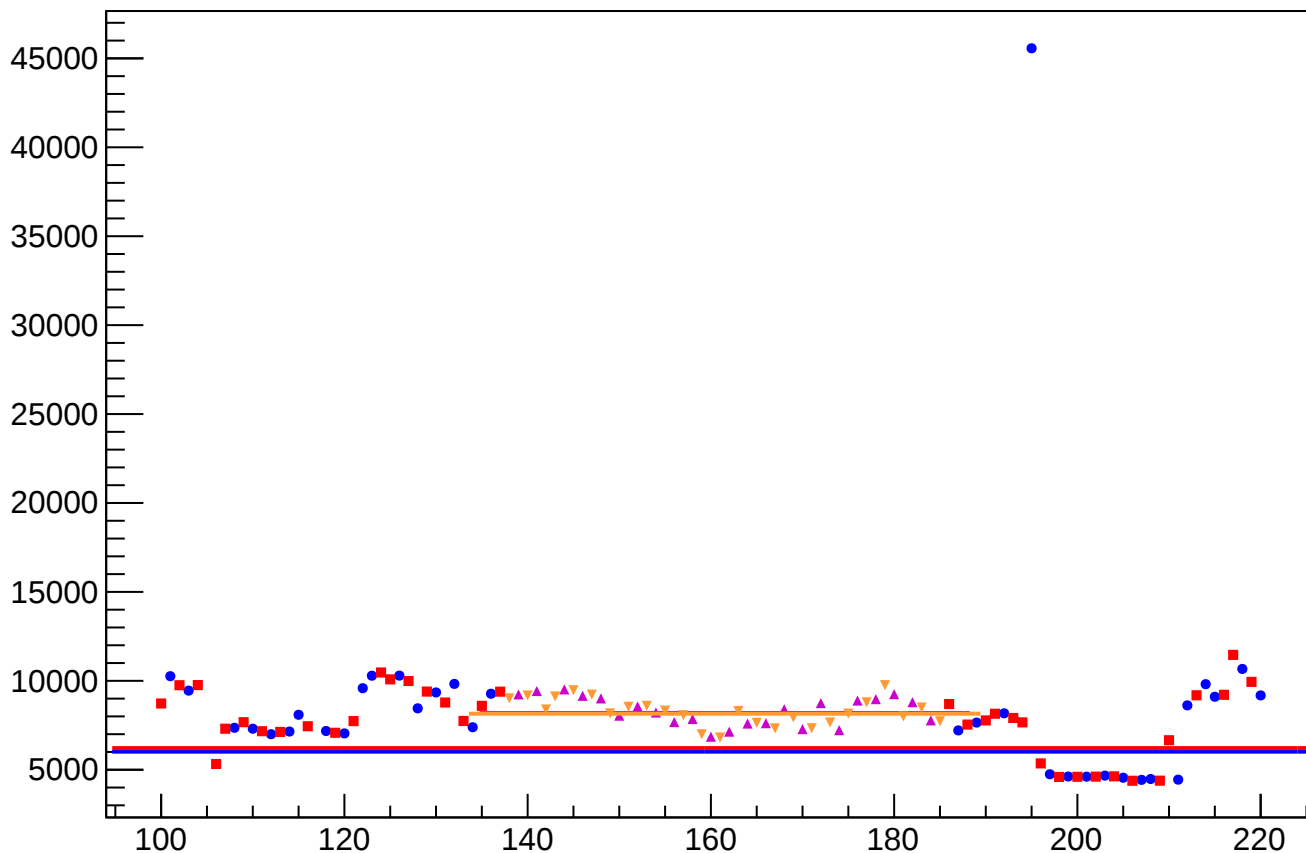
Right: 1.134 ± 1.057 $\chi^2/\text{NDF}: 875.2/70$

In: -3.021 ± 1.192 $\chi^2/\text{NDF}: 379.8/56$

Out: -2.435 ± 1.182 $\chi^2/\text{NDF}: 579.9/61$

All: -2.726 ± 0.839 $\chi^2/\text{NDF}: 959.8/118$

diff_bpm0l09X_rms vs Slug, Sign Corrected



Right In: 6018.025 $\pm$ 1.053

χ^2 /NDF: 4957306.5/33

Left Out: 8151.489 $\pm$ 1.356

χ^2 /NDF: 321803.3/24

Right Out: 6217.218 $\pm$ 1.062

χ^2 /NDF: 3443295.2/36

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

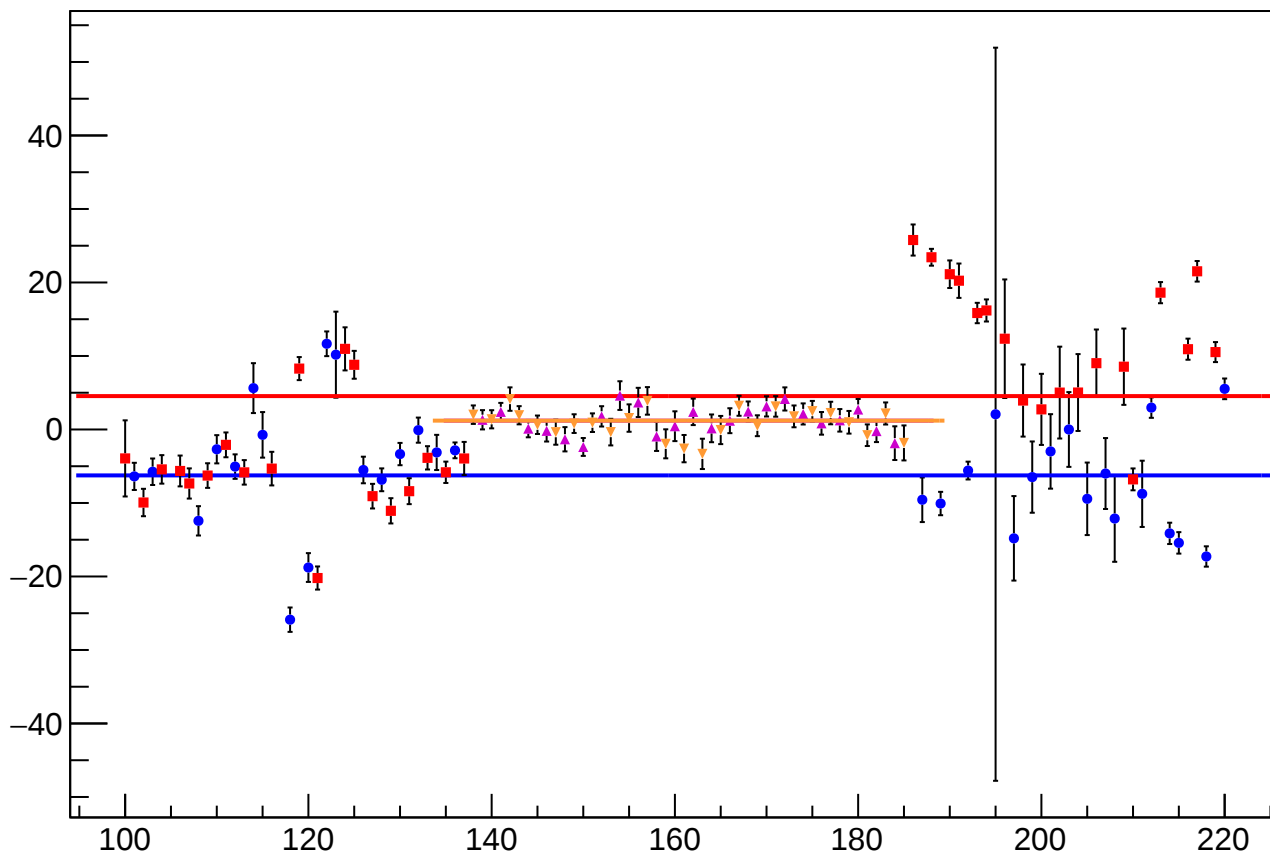
Right: 6116.798 $\pm$ 0.748 χ^2 /NDF: 8418341.9/70

In: 6800.339 $\pm$ 0.843 χ^2 /NDF: 6830338.6/56

Out: 6952.248 $\pm$ 0.836 χ^2 /NDF: 5026018.1/61

All: 6876.896 $\pm$ 0.594 χ^2 /NDF: 11872730.8/121

diff_bpm0l09Y_mean vs Slug, Sign Corrected



Right In: -6.248 ± 0.330 $\chi^2/\text{NDF}: 620.3/33$

Left Out: 1.203 ± 0.302 $\chi^2/\text{NDF}: 29.9/24$

Right Out: 4.542 ± 0.305 $\chi^2/\text{NDF}: 1785.3/36$

Left In: 1.198 ± 0.318 $\chi^2/\text{NDF}: 31.2/22$

Left: 1.201 ± 0.219 $\chi^2/\text{NDF}: 61.1/47$

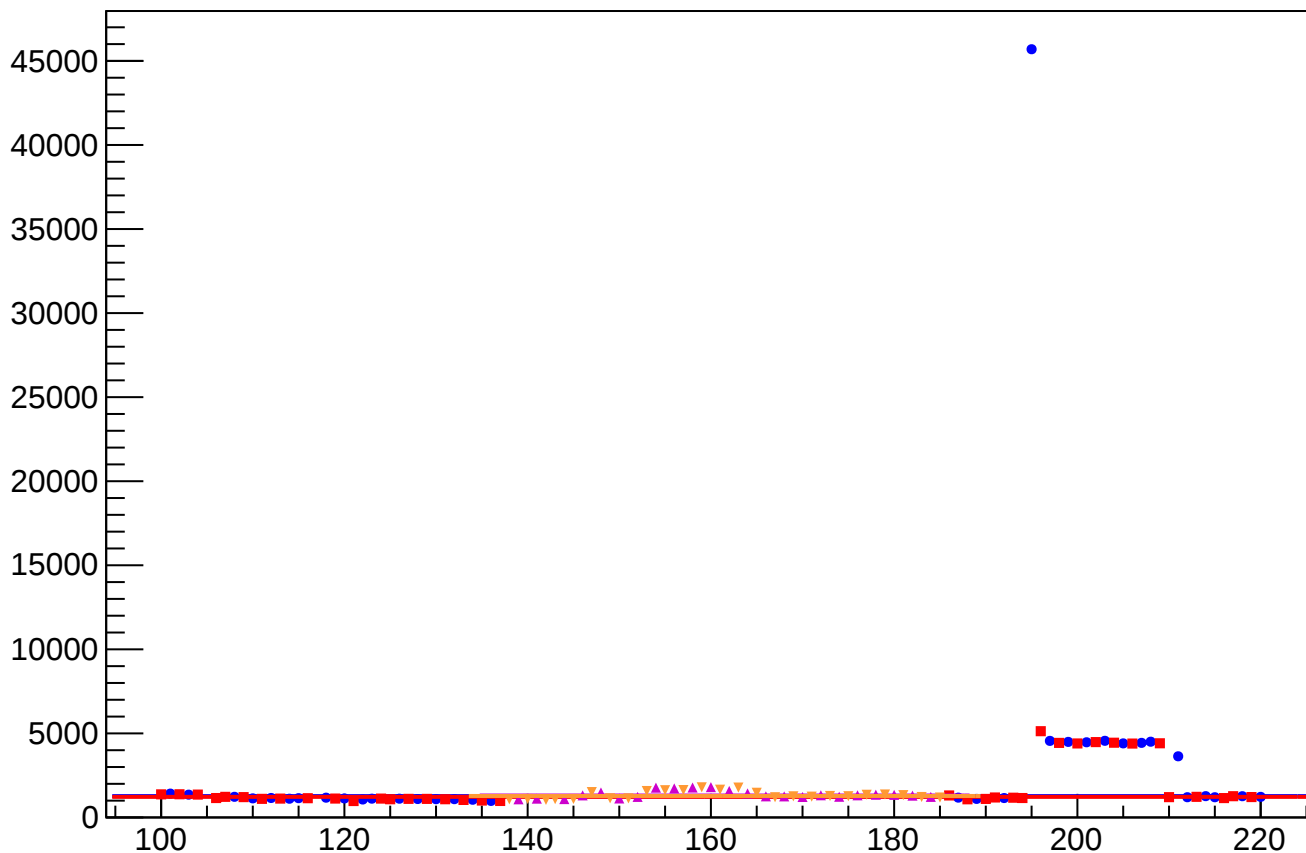
Right: -0.439 ± 0.224 $\chi^2/\text{NDF}: 2982.7/70$

In: -2.394 ± 0.229 $\chi^2/\text{NDF}: 915.7/56$

Out: 2.858 ± 0.215 $\chi^2/\text{NDF}: 1875.6/61$

All: 0.398 ± 0.157 $\chi^2/\text{NDF}: 3071.2/118$

diff_bpm0l09Y_rms vs Slug, Sign Corrected



Right In: 1269.685 $\pm$ 0.233 χ^2 /NDF: 7979752.5/33

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

Right Out: 1225.419 $\pm$ 0.216 χ^2 /NDF: 5508138.9/36

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

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

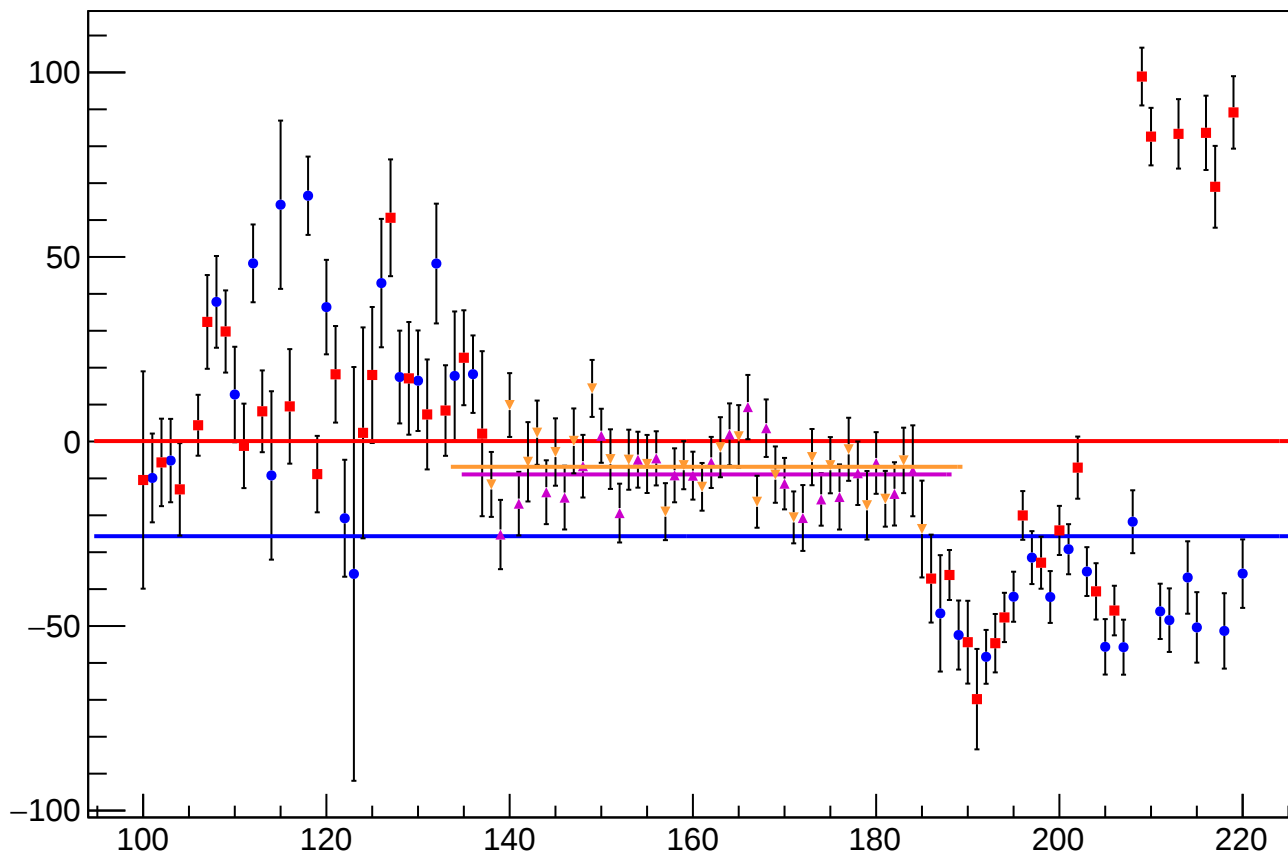
Right: 1245.853 $\pm$ 0.158 χ^2 /NDF: 13507318.0/70

In: 1288.245 $\pm$ 0.162 χ^2 /NDF: 8752457.2/56

Out: 1251.903 $\pm$ 0.152 χ^2 /NDF: 6416126.1/61

All: 1268.922 $\pm$ 0.111 χ^2 /NDF: 15195390.3/1

diff_bpm0l10X_mean vs Slug, Sign Corrected



Right In: -25.661 ± 1.680 $\chi^2/\text{NDF}: 392.4/33$

Left Out: -6.854 ± 1.616 $\chi^2/\text{NDF}: 28.7/24$

Right Out: 0.113 ± 1.617 $\chi^2/\text{NDF}: 886.7/36$

Left In: -8.923 ± 1.674 $\chi^2/\text{NDF}: 21.8/22$

Left: -7.852 ± 1.163 $\chi^2/\text{NDF}: 51.3/47$

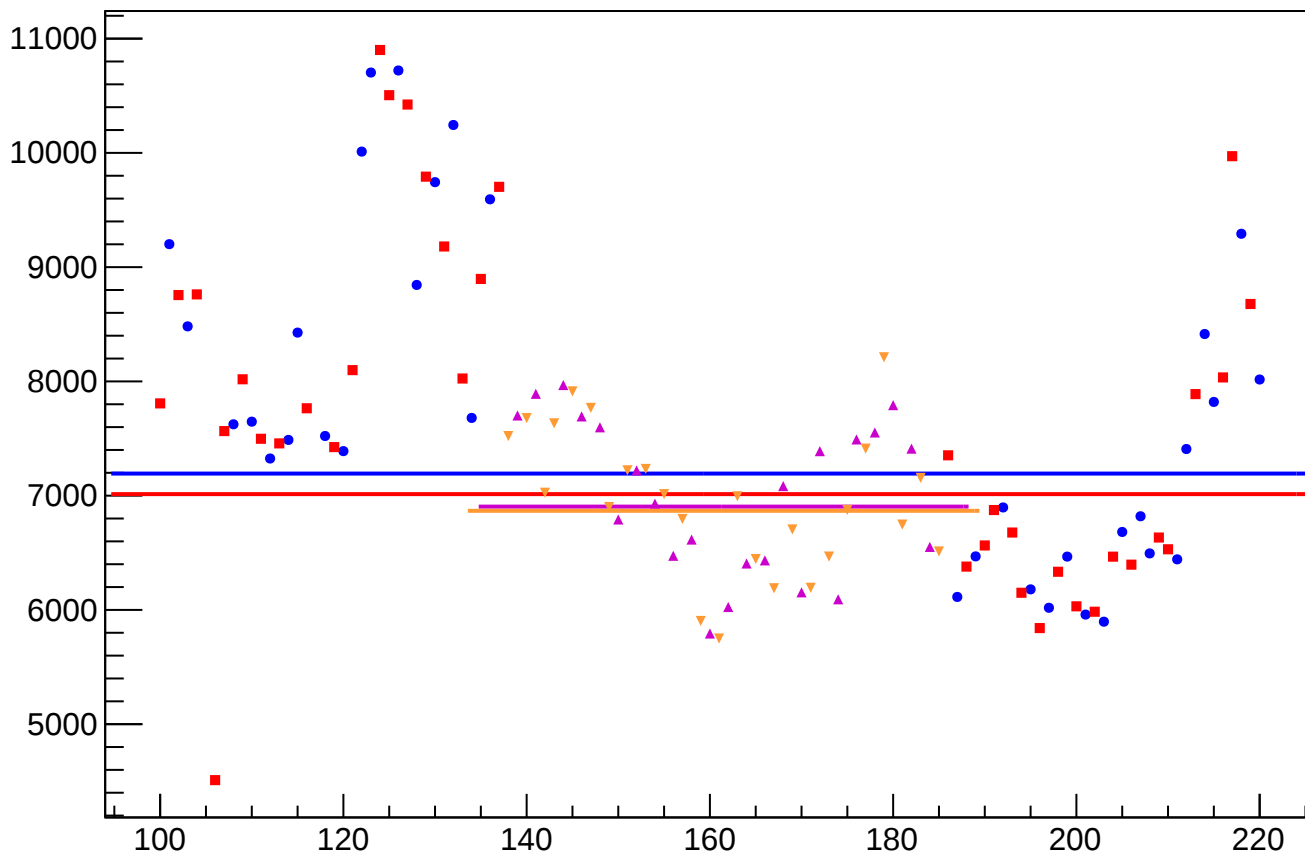
Right: -12.278 ± 1.165 $\chi^2/\text{NDF}: 1401.3/70$

In: -17.261 ± 1.186 $\chi^2/\text{NDF}: 464.0/56$

Out: -3.374 ± 1.143 $\chi^2/\text{NDF}: 924.7/61$

All: -10.060 ± 0.823 $\chi^2/\text{NDF}: 1459.8/118$

diff_bpm0l10X_rms vs Slug, Sign Corrected



Right In: 7193.331 ± 1.188 $\chi^2/\text{NDF}: 100681.9/33$

Left Out: 6867.371 ± 1.142 $\chi^2/\text{NDF}: 306895.0/24$

Right Out: 7013.436 ± 1.143 $\chi^2/\text{NDF}: 1203857.6/36$

Left In: 6904.117 ± 1.184 $\chi^2/\text{NDF}: 325912.6/22$

Left: 6885.088 ± 0.822 $\chi^2/\text{NDF}: 633306.5/47$

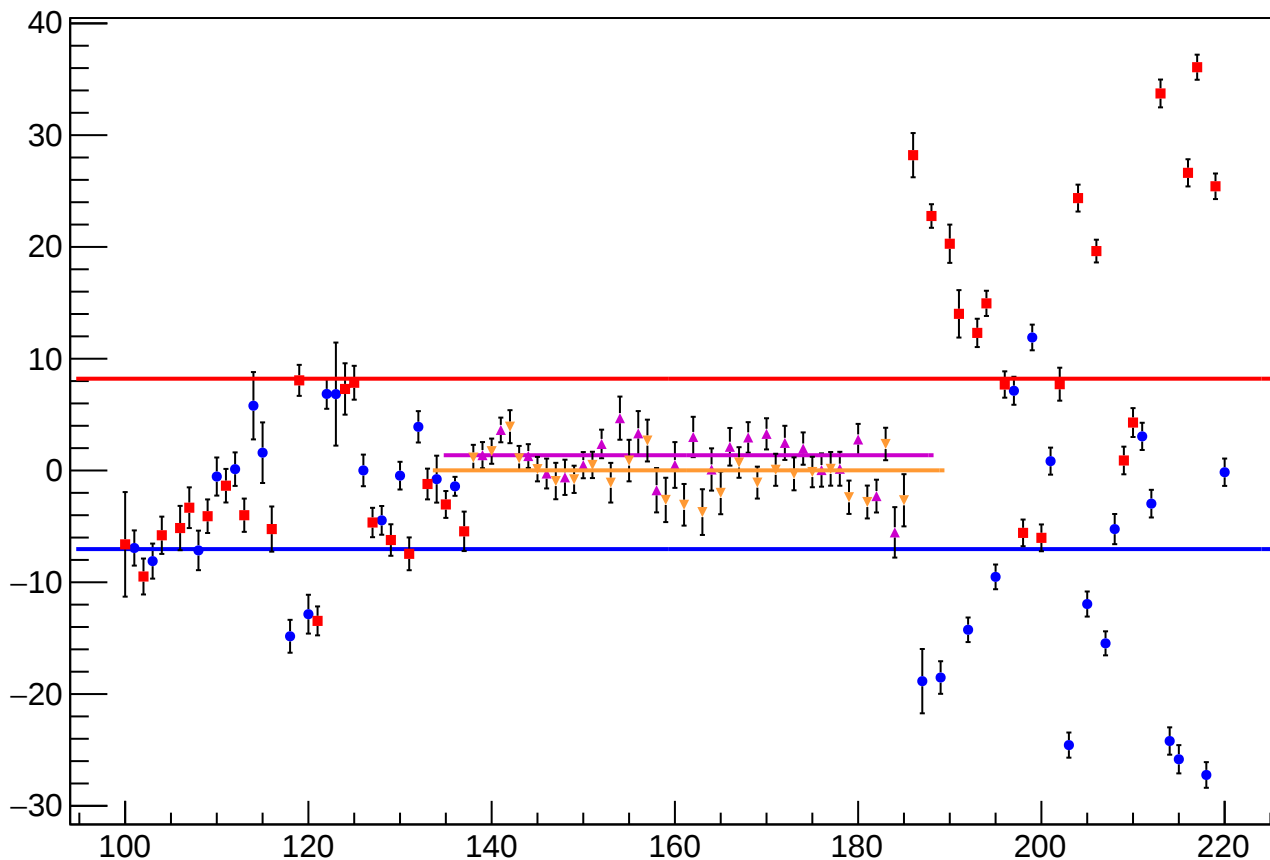
Right: 7099.922 ± 0.824 $\chi^2/\text{NDF}: 2222441.1/70$

In: 7048.198 ± 0.839 $\chi^2/\text{NDF}: 1362323.5/56$

Out: 6940.340 ± 0.808 $\chi^2/\text{NDF}: 1518919.8/61$

All: 6992.268 ± 0.582 $\chi^2/\text{NDF}: 2889819.9/11$

diff_bpm0l10Y_mean vs Slug, Sign Corrected



Right In: -7.031 ± 0.230 $\chi^2/\text{NDF}: 2127.6/33$

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

Right Out: 8.212 ± 0.228 $\chi^2/\text{NDF}: 3810.0/36$

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

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

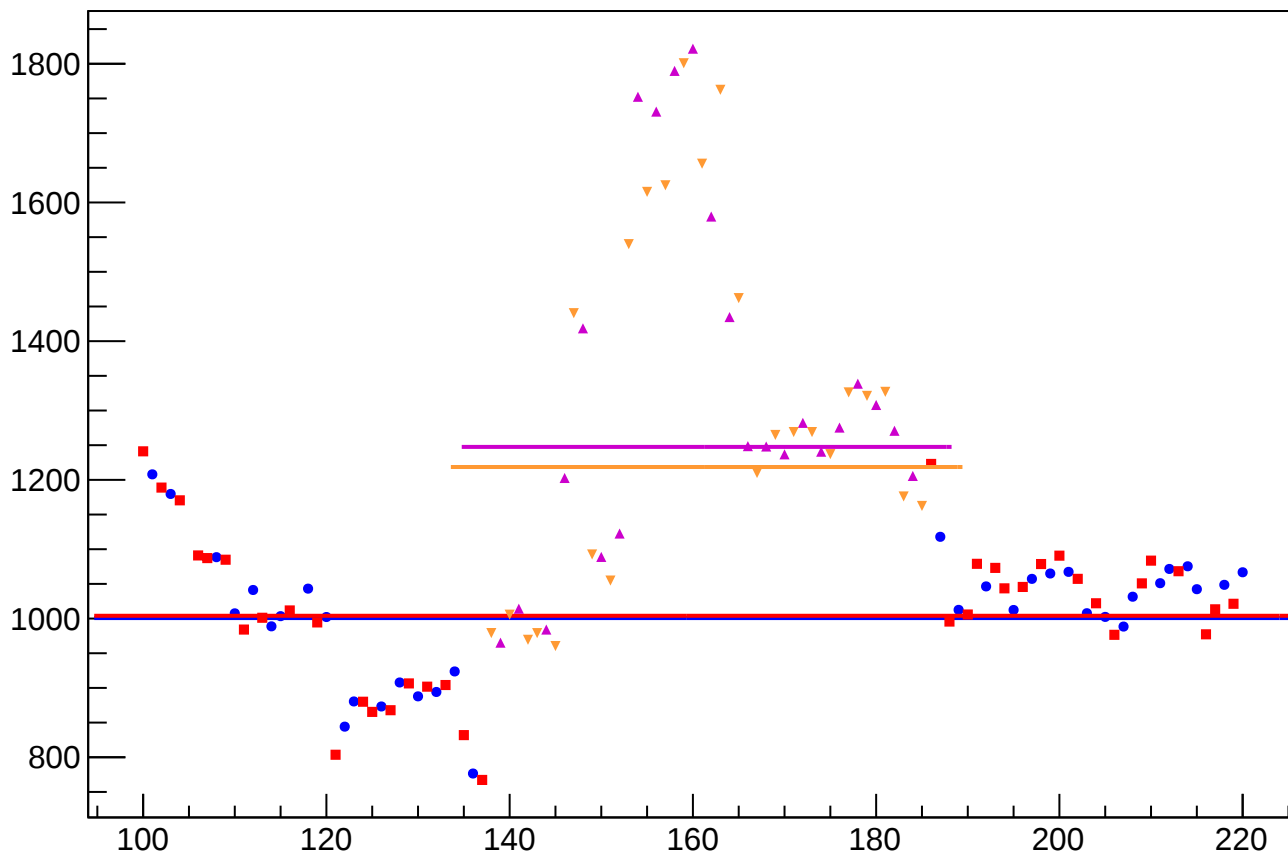
Right: 0.677 ± 0.162 $\chi^2/\text{NDF}: 8149.4/70$

In: -3.985 ± 0.184 $\chi^2/\text{NDF}: 2647.5/56$

Out: 5.081 ± 0.179 $\chi^2/\text{NDF}: 4339.3/61$

All: 0.669 ± 0.128 $\chi^2/\text{NDF}: 8233.2/118$

diff_bpm0l10Y_rms vs Slug, Sign Corrected



Right In: 1000.713+/-0.163 χ^2/NDF : 349174.8/33

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

Right Out: 1004.033+/-0.161 χ^2/NDF : 342836.8/36

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

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

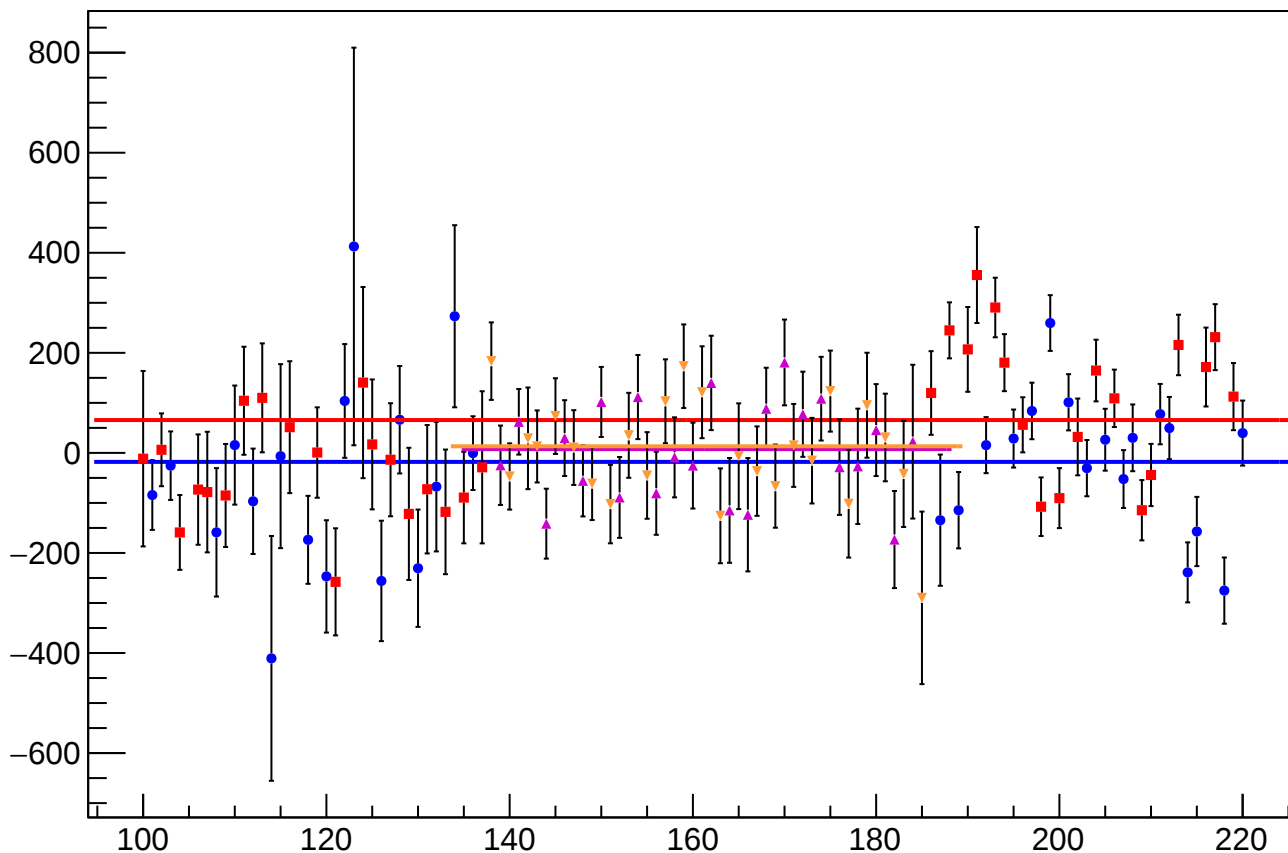
Right: 1002.392+/-0.115 χ^2/NDF : 692221.5/70

In: 1090.250+/-0.130 χ^2/NDF :2254507.2/56

Out: 1085.952+/-0.127 χ^2/NDF :2285424.4/61

All: 1088.044+/-0.091 χ^2/NDF : 4540491.9/111

diff_bpm0r03X_mean vs Slug, Sign Corrected



Right In: -17.965 ± 13.056 $\chi^2/\text{NDF}: 100.1/33$

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

Right Out: 65.631 ± 12.964 $\chi^2/\text{NDF}: 121.0/36$

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

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

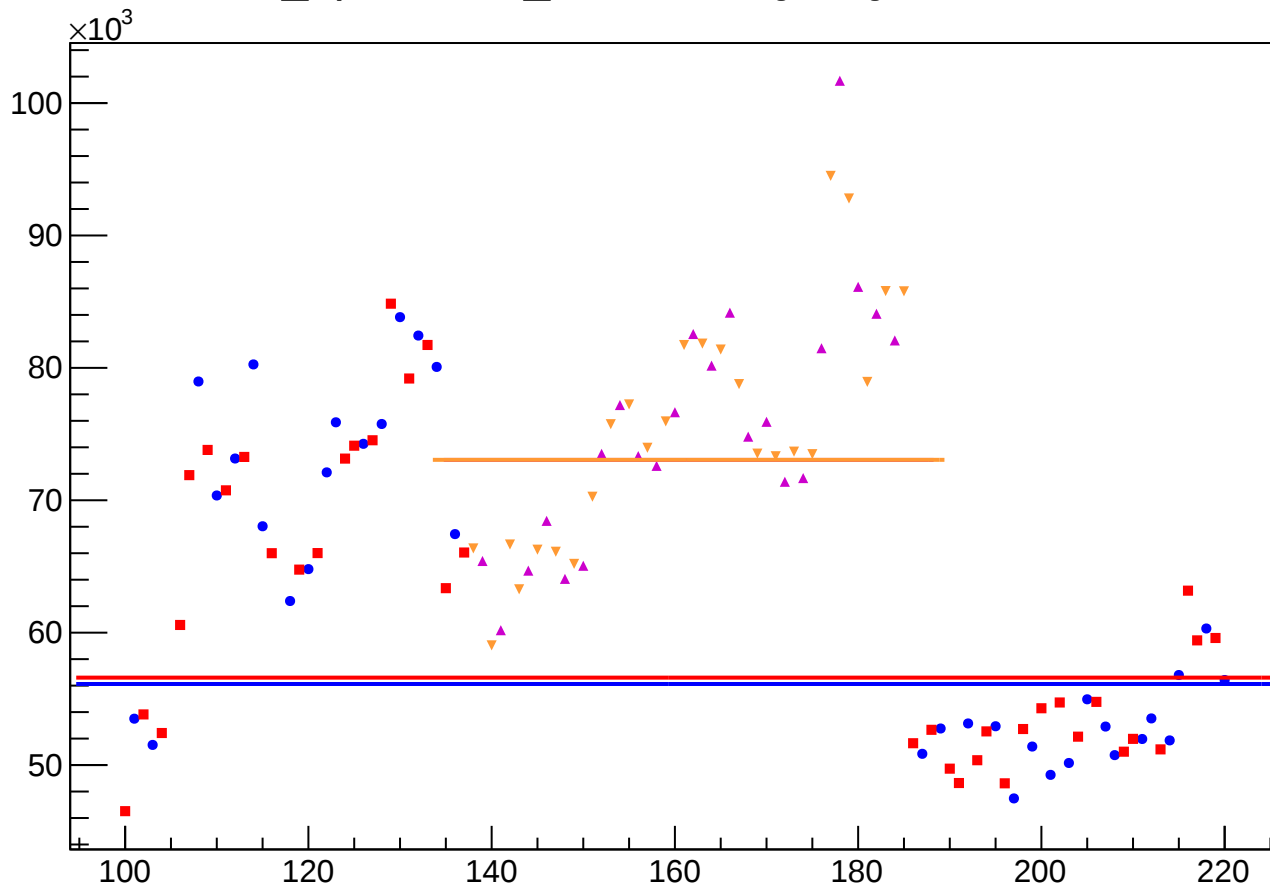
Right: 24.127 ± 9.199 $\chi^2/\text{NDF}: 241.8/70$

In: -8.932 ± 10.501 $\chi^2/\text{NDF}: 129.6/56$

Out: 46.563 ± 10.341 $\chi^2/\text{NDF}: 153.8/61$

All: 19.241 ± 7.368 $\chi^2/\text{NDF}: 297.5/118$

diff_bpm0r03X_rms vs Slug, Sign Corrected



Right In: 56122.871 ± 9.232 $\chi^2/\text{NDF}: 822689.7/33$

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

Right Out: 56603.921 ± 9.167 $\chi^2/\text{NDF}: 794146.1/36$

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

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

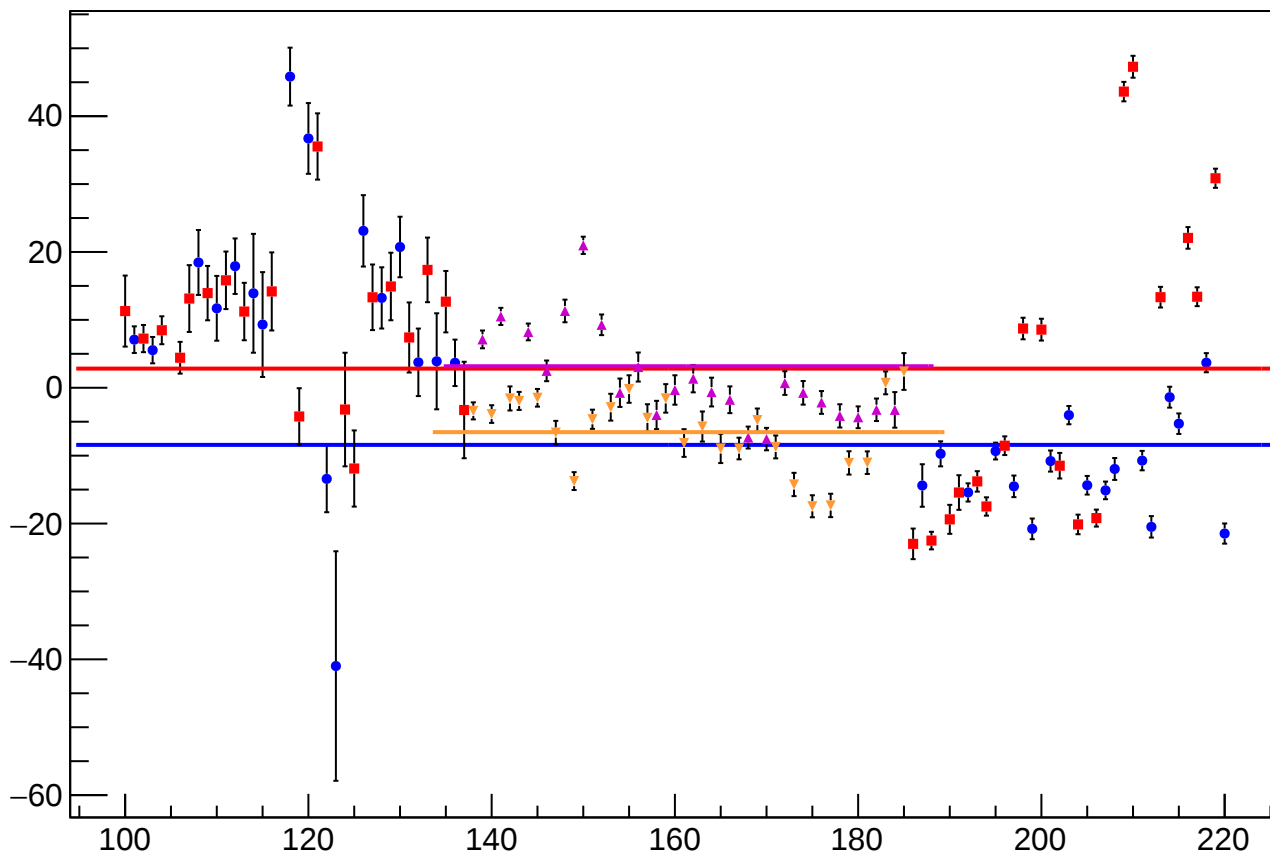
Right: 56365.089 ± 6.505 $\chi^2/\text{NDF}: 1618203.0/70$

In: 62098.139 ± 7.425 $\chi^2/\text{NDF}: 2472682.4/56$

Out: 62587.585 ± 7.312 $\chi^2/\text{NDF}: 2438555.4/61$

All: 62346.614 ± 5.210 $\chi^2/\text{NDF}: 4913443.7/113$

diff_bpm0r03Y_mean vs Slug, Sign Corrected



Right In: -8.413 ± 0.338 $\chi^2/\text{NDF}: 994.6/33$

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

Right Out: 2.822 ± 0.335 $\chi^2/\text{NDF}: 4078.7/36$

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

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

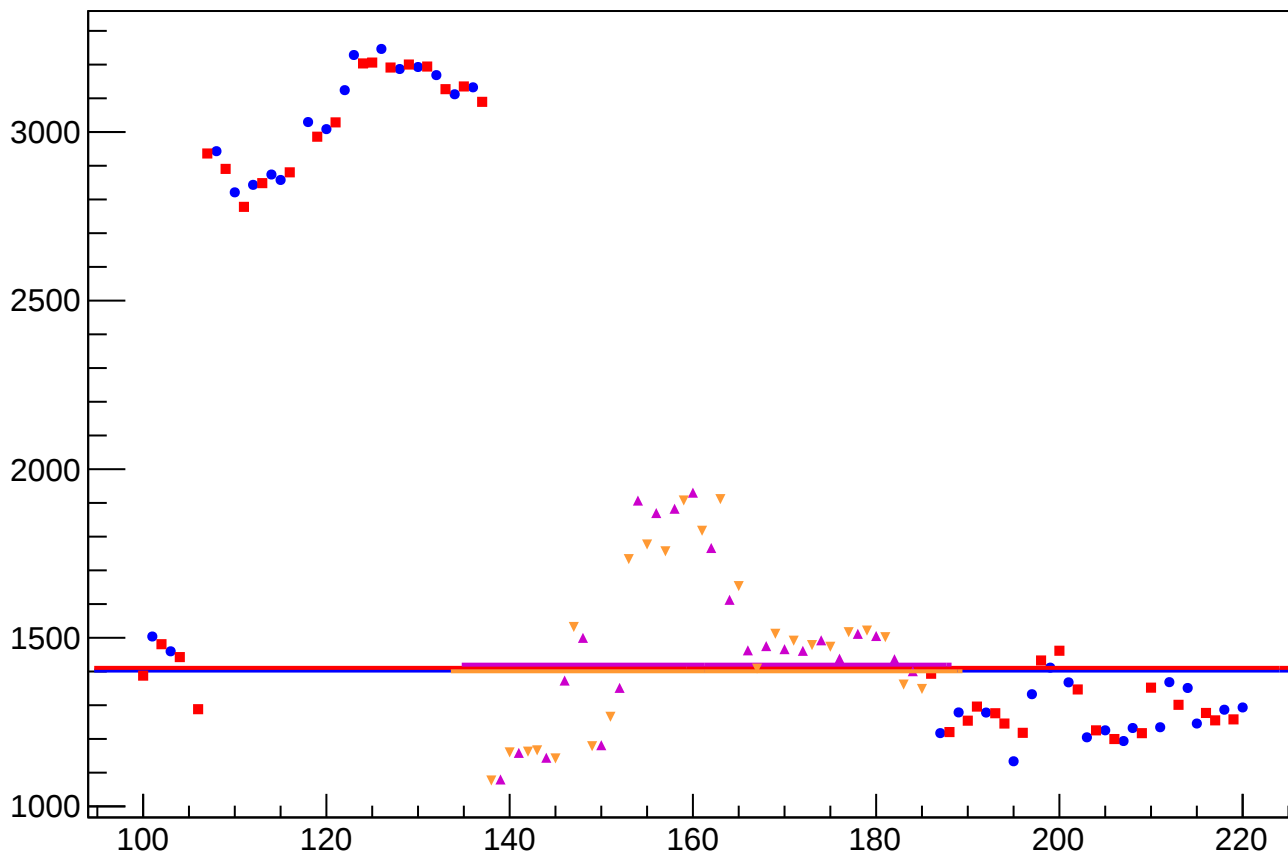
Right: -2.736 ± 0.238 $\chi^2/\text{NDF}: 5630.0/70$

In: -2.757 ± 0.242 $\chi^2/\text{NDF}: 2053.9/56$

Out: -1.901 ± 0.236 $\chi^2/\text{NDF}: 4725.5/61$

All: -2.317 ± 0.169 $\chi^2/\text{NDF}: 6785.8/118$

diff_bpm0r03Y_rms vs Slug, Sign Corrected



Right In: 1402.765 $\pm$ 0.239 χ^2 /NDF: 3639776.7/33

Left Out: 1400.637 $\pm$ 0.235 χ^2 /NDF: 1037921.6/24

Right Out: 1410.806 $\pm$ 0.237 χ^2 /NDF: 3628459.6/36

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

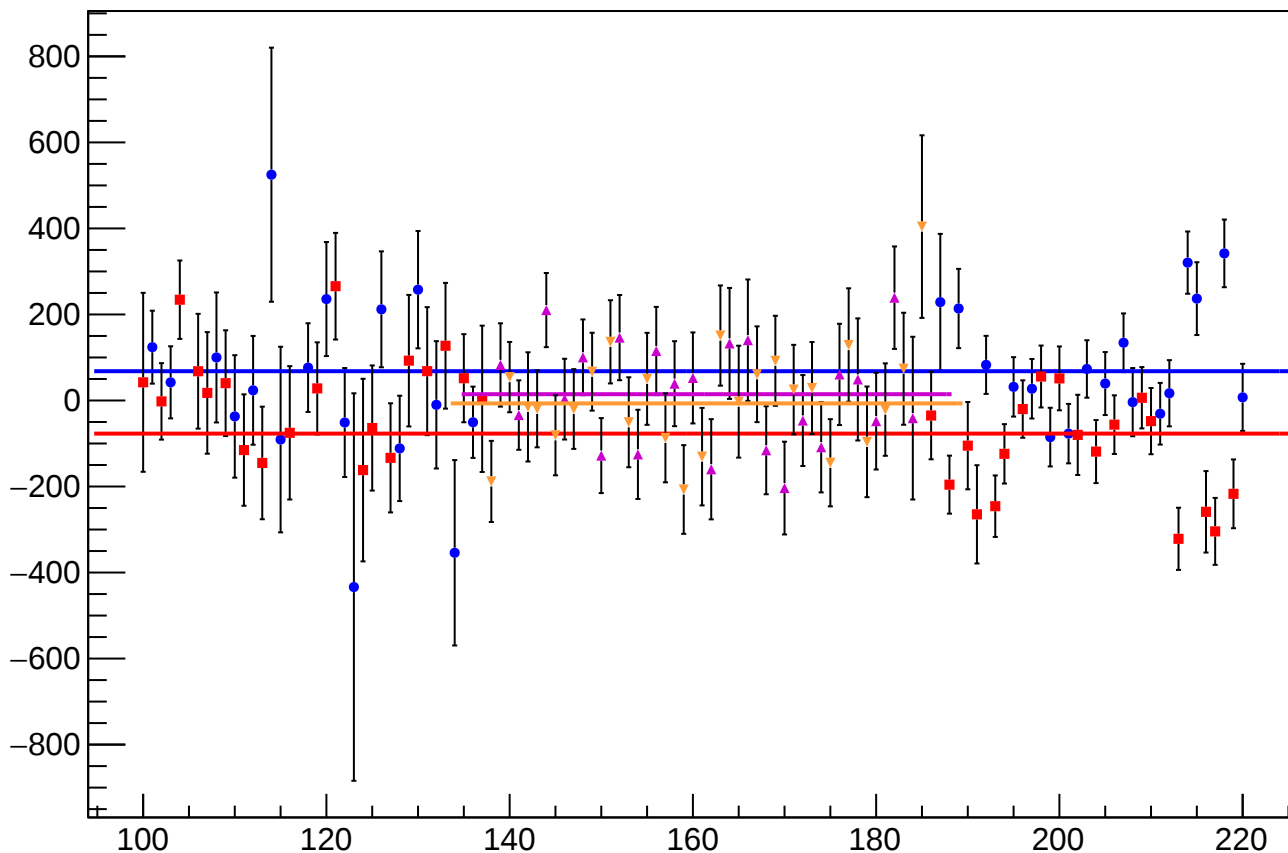
Right: 1406.828 $\pm$ 0.168 χ^2 /NDF: 7268806.7/70

In: 1411.320 $\pm$ 0.171 χ^2 /NDF: 4547580.0/56

Out: 1405.674 $\pm$ 0.167 χ^2 /NDF: 4667311.7/61

All: 1408.422 $\pm$ 0.119 χ^2 /NDF: 9215450.1/111

diff_bpm0r05X_mean vs Slug, Sign Corrected



Right In: 68.078 $\pm$ 15.614 χ^2 /NDF: 66.1/33

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

Right Out: -76.981 $\pm$ 15.520 χ^2 /NDF: 78.4/36

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

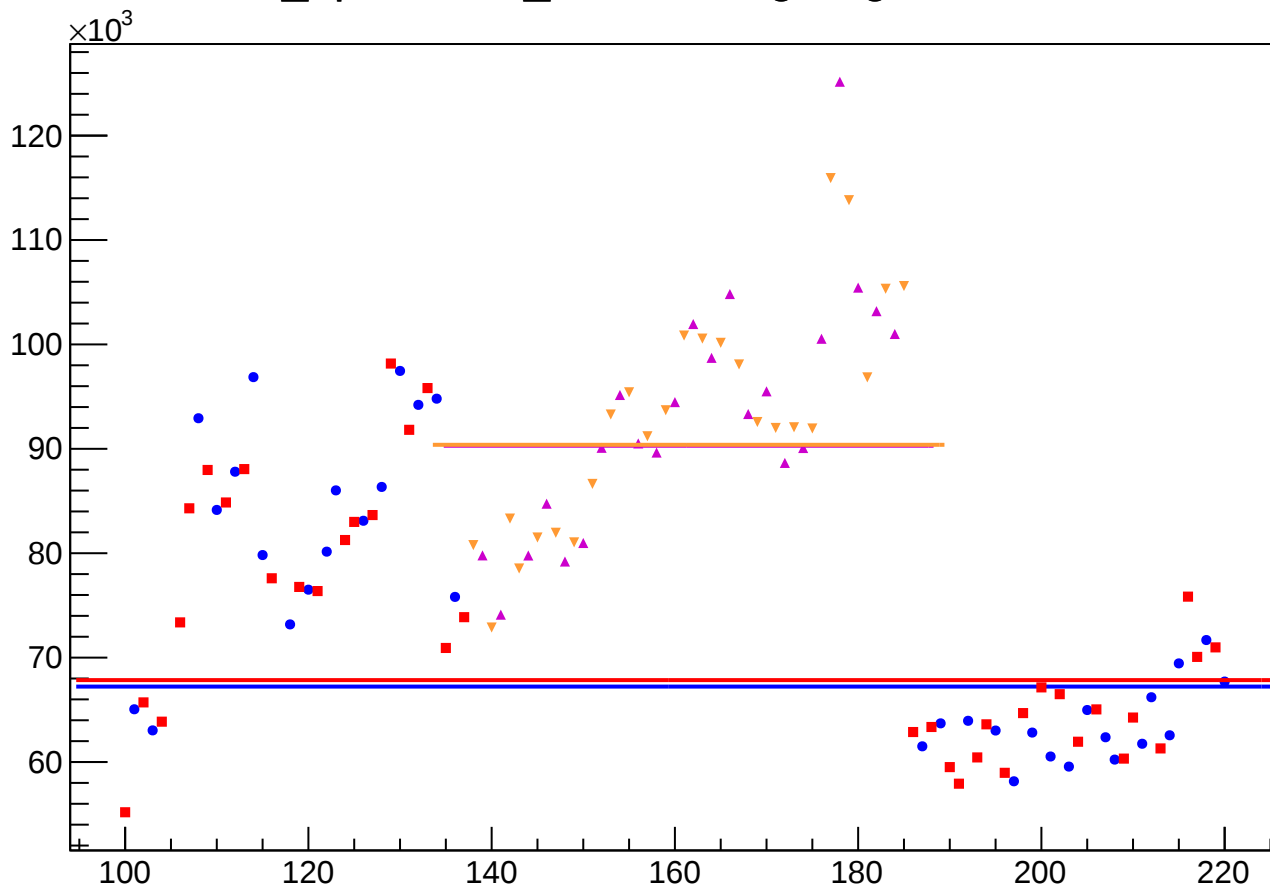
Right: -4.893 $\pm$ 11.007 χ^2 /NDF: 187.9/70

In: 49.999 $\pm$ 12.703 χ^2 /NDF:99.9/56

Out: -52.509 $\pm$ 12.525 χ^2 /NDF:110.2/61

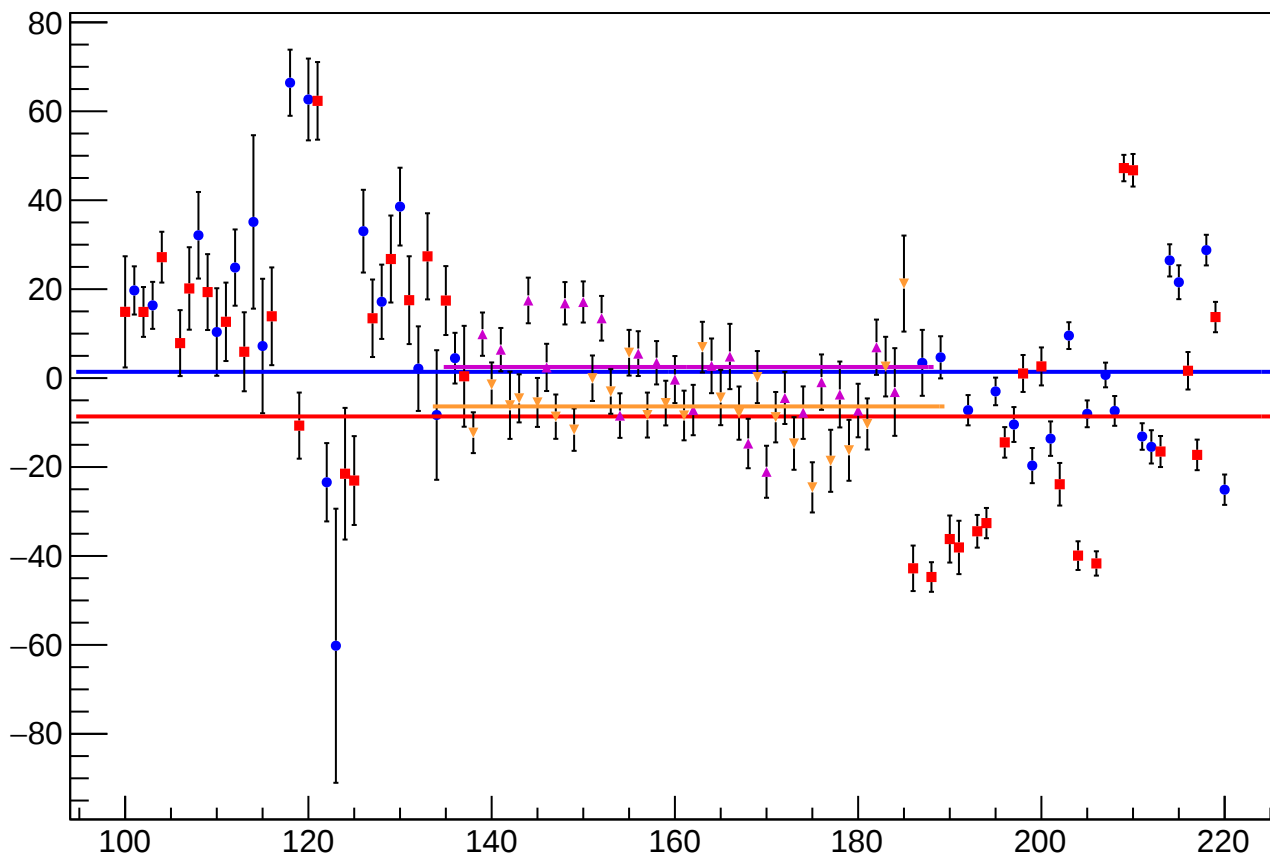
All: -1.977 $\pm$ 8.919 χ^2 /NDF: 243.1/118

diff_bpm0r05X_rms vs Slug, Sign Corrected



Right In: 67226.462 $\pm$ 11.041	χ^2/NDF : 670109.5/33	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: 67538.107 $\pm$ 7.783	χ^2/NDF : 1340001.5/70
Right Out: 67845.982 $\pm$ 10.974	χ^2/NDF : 668308.2/36	In: 75026.085 $\pm$ 8.983	χ^2/NDF : 2607299.1/56
Left In: 90293.591 $\pm$ 15.448	χ^2/NDF : 461337.5/22	Out: 75703.970 $\pm$ 8.857	χ^2/NDF : 2600591.2/61
		All: 75369.803 $\pm$ 6.307	χ^2/NDF : 5210778.1/17

diff_bpm0r05Y_mean vs Slug, Sign Corrected



Right In: 1.407 ± 0.784 $\chi^2/\text{NDF}: 536.5/33$

Left Out: -6.370 ± 1.124 $\chi^2/\text{NDF}: 45.5/24$

Right Out: -8.624 ± 0.795 $\chi^2/\text{NDF}: 1440.6/36$

Left In: 2.501 ± 1.156 $\chi^2/\text{NDF}: 78.4/22$

Left: -2.059 ± 0.806 $\chi^2/\text{NDF}: 154.1/47$

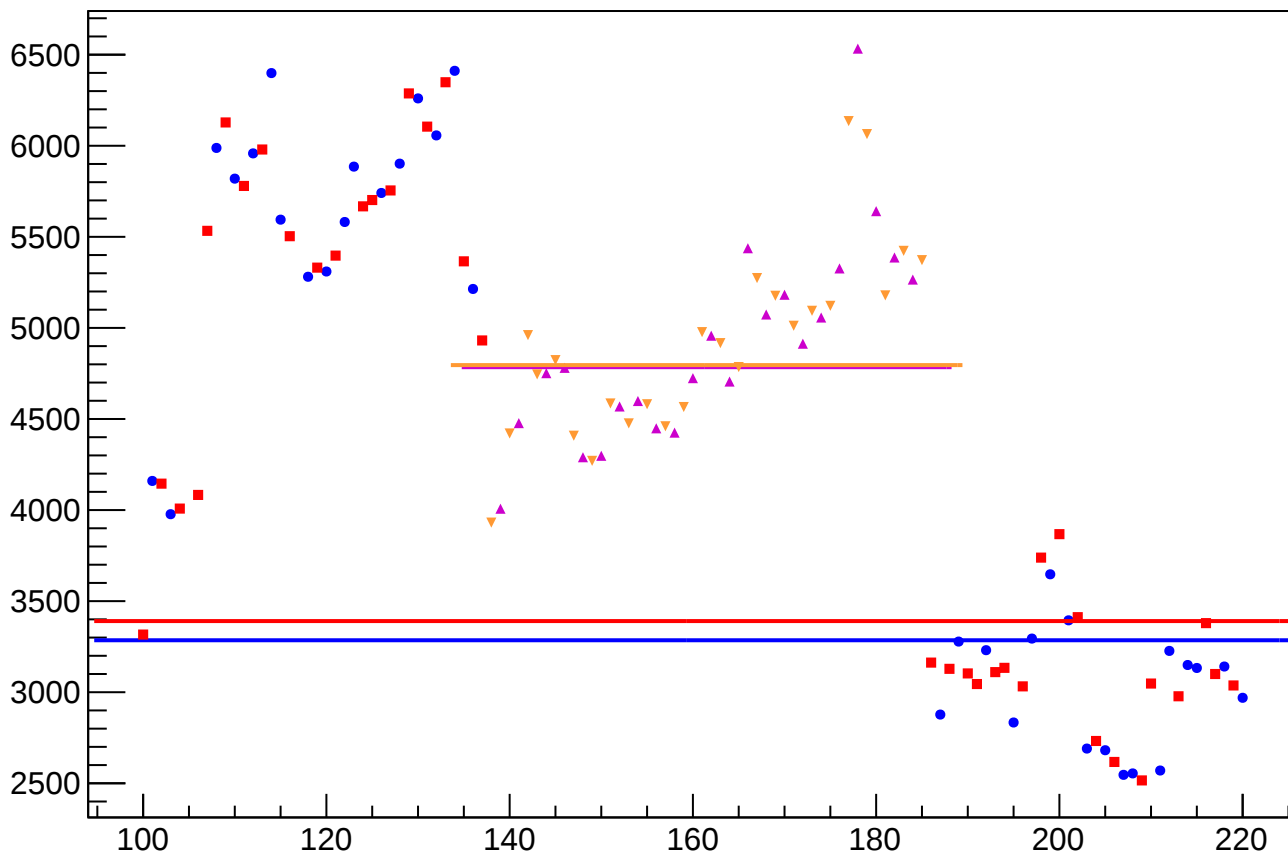
Right: -3.536 ± 0.558 $\chi^2/\text{NDF}: 2057.8/70$

In: 1.752 ± 0.649 $\chi^2/\text{NDF}: 615.6/56$

Out: -7.872 ± 0.649 $\chi^2/\text{NDF}: 1488.7/61$

All: -3.057 ± 0.459 $\chi^2/\text{NDF}: 2214.2/118$

diff_bpm0r05Y_rms vs Slug, Sign Corrected



Right In: 3285.235 $\pm$ 0.554 χ^2 /NDF: 2718068.3/33

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

Right Out: 3390.578 $\pm$ 0.562 χ^2 /NDF: 2614843.9/36

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

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

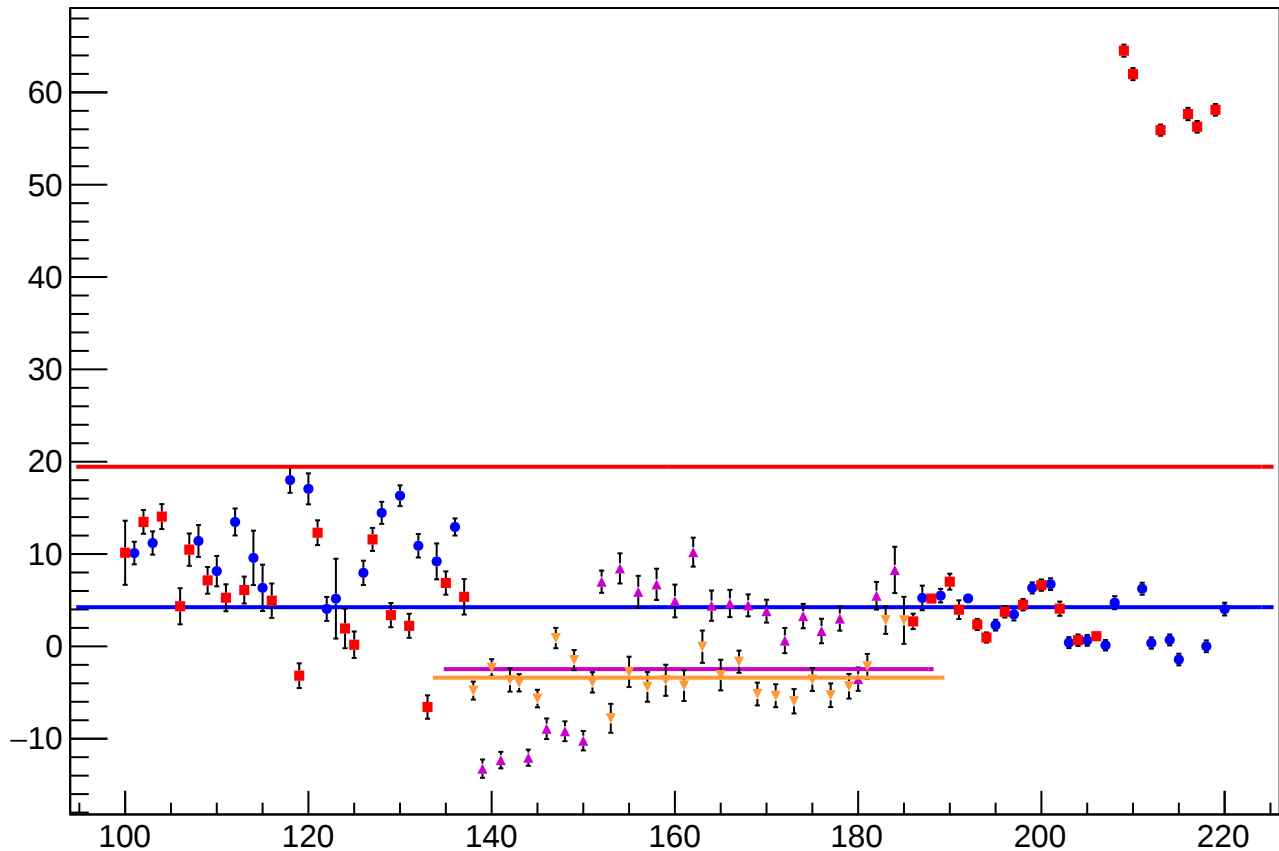
Right: 3337.146 $\pm$ 0.395 χ^2 /NDF: 5350707.4/70

In: 3757.568 $\pm$ 0.459 χ^2 /NDF: 5379929.0/56

Out: 3859.526 $\pm$ 0.459 χ^2 /NDF: 5059544.4/61

All: 3808.515 $\pm$ 0.325 χ^2 /NDF: 10464152.2/131

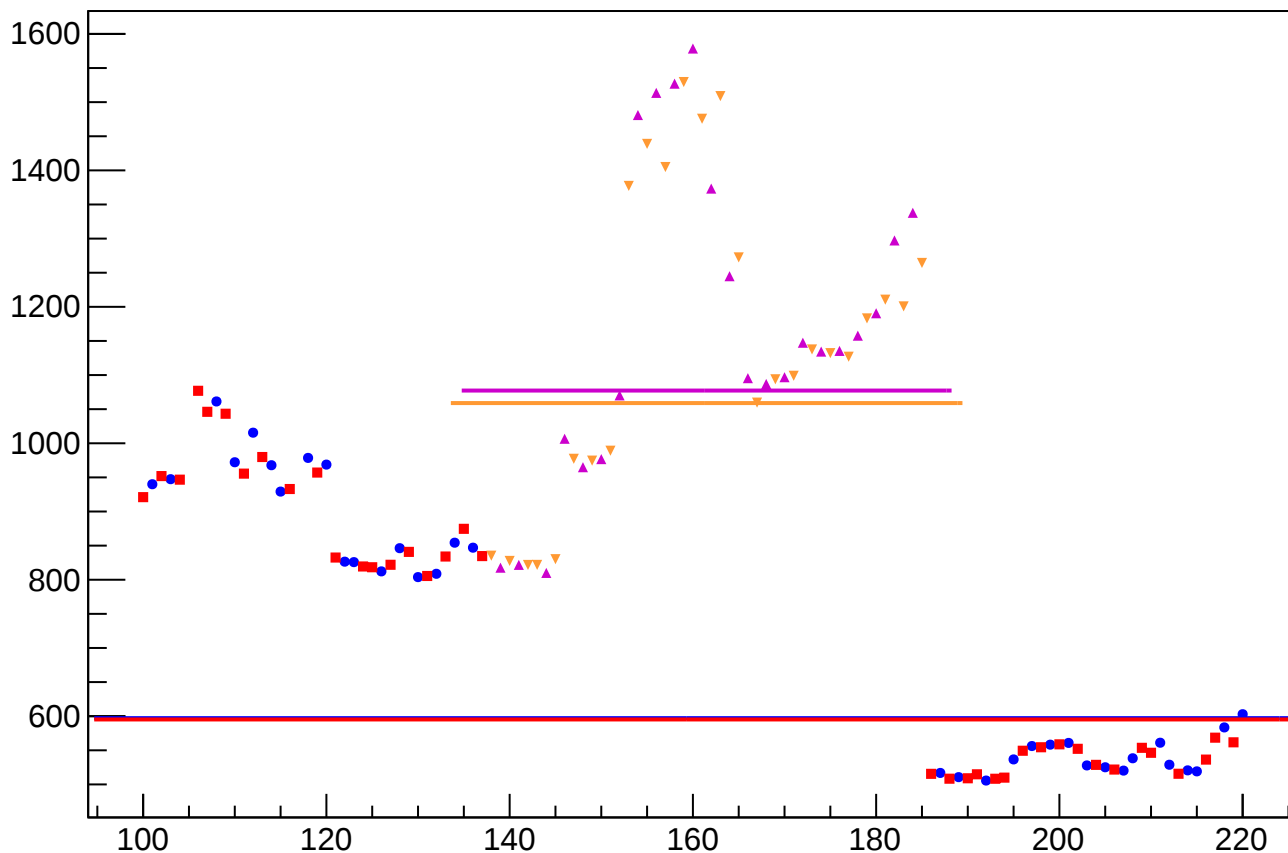
diff_bpm2i01X_mean vs Slug, Sign Corrected



Right In: 4.245 ± 0.140 $\chi^2/\text{NDF}: 987.2/33$
 Left Out: -3.390 ± 0.252 $\chi^2/\text{NDF}: 77.7/24$
 Right Out: 19.453 ± 0.138 $\chi^2/\text{NDF}: 32775.5/36$
 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: 11.970 ± 0.099 $\chi^2/\text{NDF}: 39718.8/70$
 In: 2.769 ± 0.124 $\chi^2/\text{NDF}: 2417.1/56$
 Out: 14.178 ± 0.121 $\chi^2/\text{NDF}: 39160.0/61$
 All: 8.604 ± 0.087 $\chi^2/\text{NDF}: 45904.3/118$

diff_bpm2i01X_rms vs Slug, Sign Corrected



Right In: 597.134+/-0.099 χ^2/NDF : 1897076.3/33

Left Out: 1058.941+/-0.178 χ^2/NDF : 1403222.2/24

Right Out: 595.214+/-0.098 χ^2/NDF : 2114119.3/36

Left In: 1077.284+/-0.187 χ^2/NDF : 1280349.9/22

Left: 1067.683+/-0.129 χ^2/NDF : 2688612.0/47

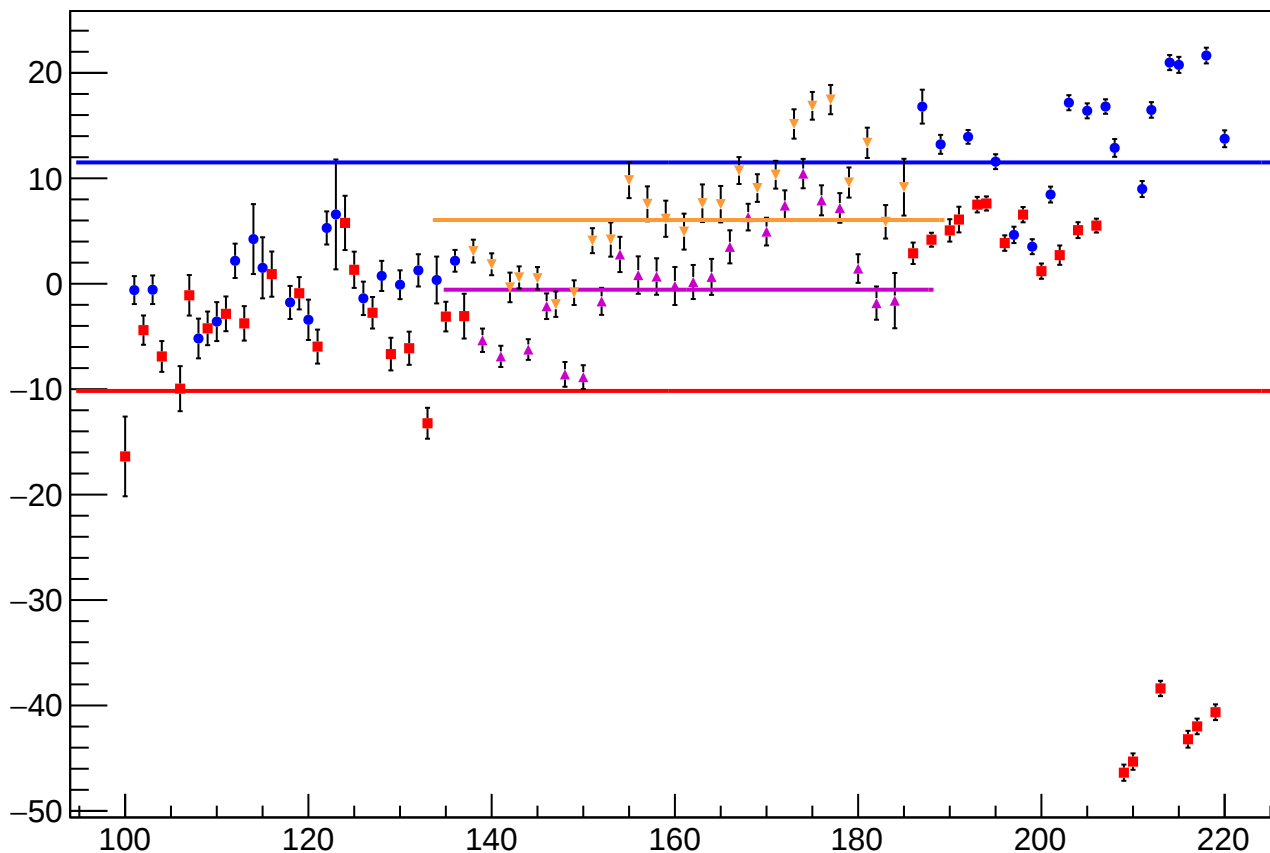
Right: 596.159+/-0.070 χ^2/NDF : 4011385.4/70

In: 702.818+/-0.088 χ^2/NDF : 8322737.3/56

Out: 702.308+/-0.086 χ^2/NDF : 8715366.0/61

All: 702.557+/-0.061 χ^2/NDF : 17038120.6/11

diff_bpm2i01Y_mean vs Slug, Sign Corrected



Right In: 11.506 $\pm$ 0.167 χ^2/NDF : 1844.6/33

Left Out: 6.045 $\pm$ 0.272 χ^2/NDF : 430.8/24

Right Out: -10.165 $\pm$ 0.165 χ^2/NDF : 15936.6/36

Left In: -0.566 $\pm$ 0.284 χ^2/NDF : 417.0/22

Left: 2.888 $\pm$ 0.196 χ^2/NDF : 1130.7/47

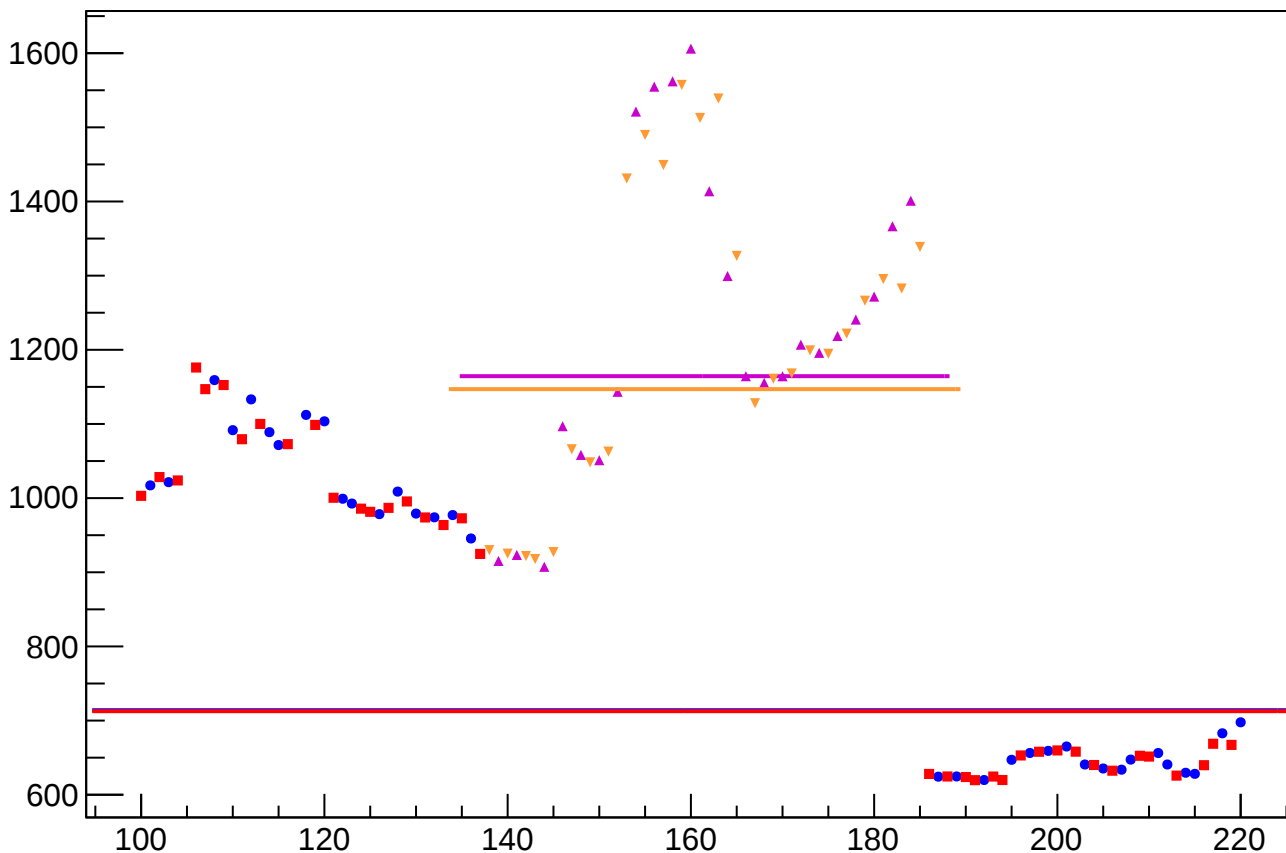
Right: 0.508 $\pm$ 0.117 χ^2/NDF : 26307.2/70

In: 8.401 $\pm$ 0.144 χ^2/NDF : 3602.5/56

Out: -5.808 $\pm$ 0.141 χ^2/NDF : 18970.9/61

All: 1.134 $\pm$ 0.101 χ^2/NDF : 27546.1/118

diff_bpm2i01Y_rms vs Slug, Sign Corrected



Right In: 713.990 $\pm$ 0.118 χ^2 /NDF: 1567414.6/33

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

Right Out: 712.688 $\pm$ 0.116 χ^2 /NDF: 1737170.0/36

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

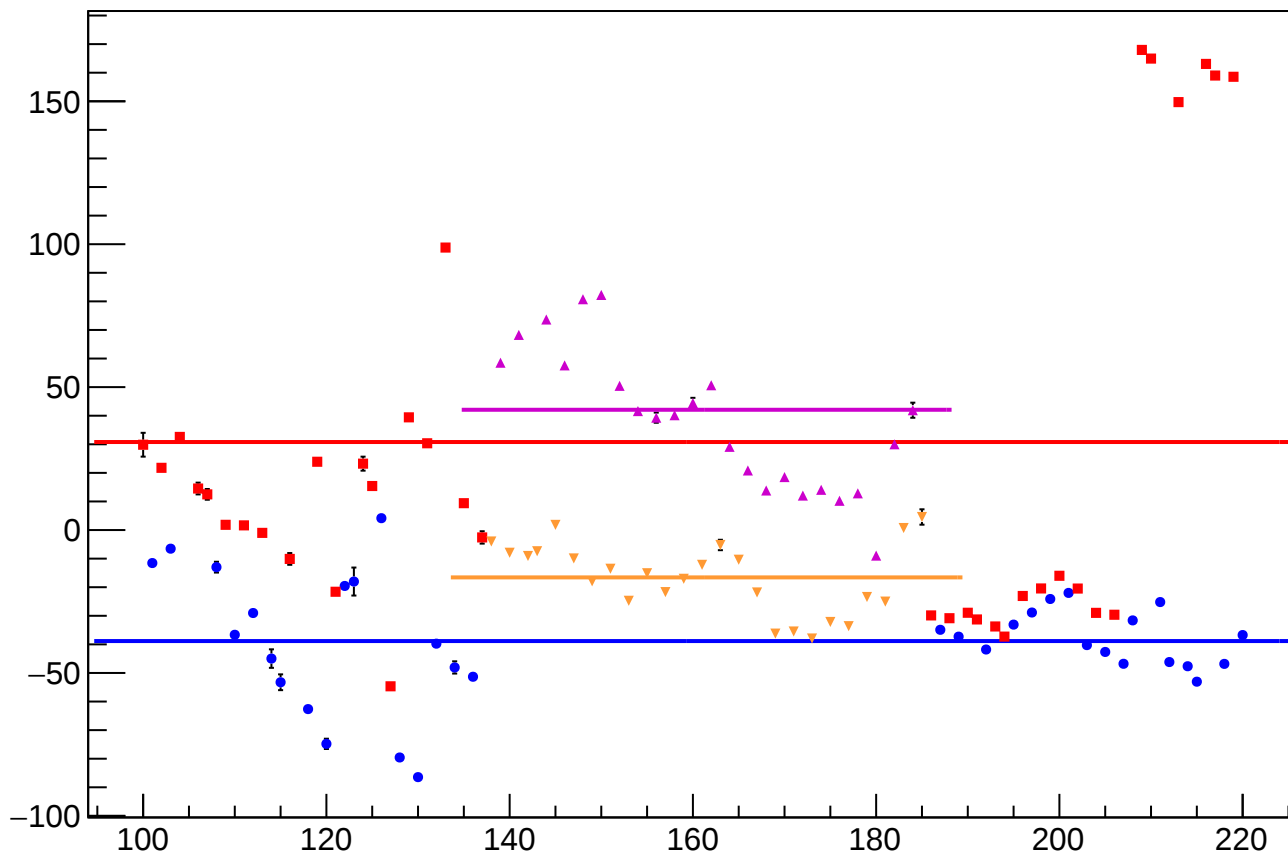
Right: 713.329 $\pm$ 0.083 χ^2 /NDF: 3304646.0/70

In: 829.850 $\pm$ 0.102 χ^2 /NDF:6245423.4/56

Out: 829.410 $\pm$ 0.100 χ^2 /NDF:6519854.9/61

All: 829.625 $\pm$ 0.071 χ^2 /NDF: 12765287.8/11

diff_bpm2i02X_mean vs Slug, Sign Corrected



Right In: -38.839 ± 0.166 χ^2/NDF : 7627.6/33

Left Out: -16.567 ± 0.275 χ^2/NDF : 1931.2/24

Right Out: 30.793 ± 0.163 χ^2/NDF : 250919.9/36

Left In: 42.077 ± 0.289 χ^2/NDF : 8332.3/22

Left: 11.318 ± 0.199 χ^2/NDF : 31846.5/47

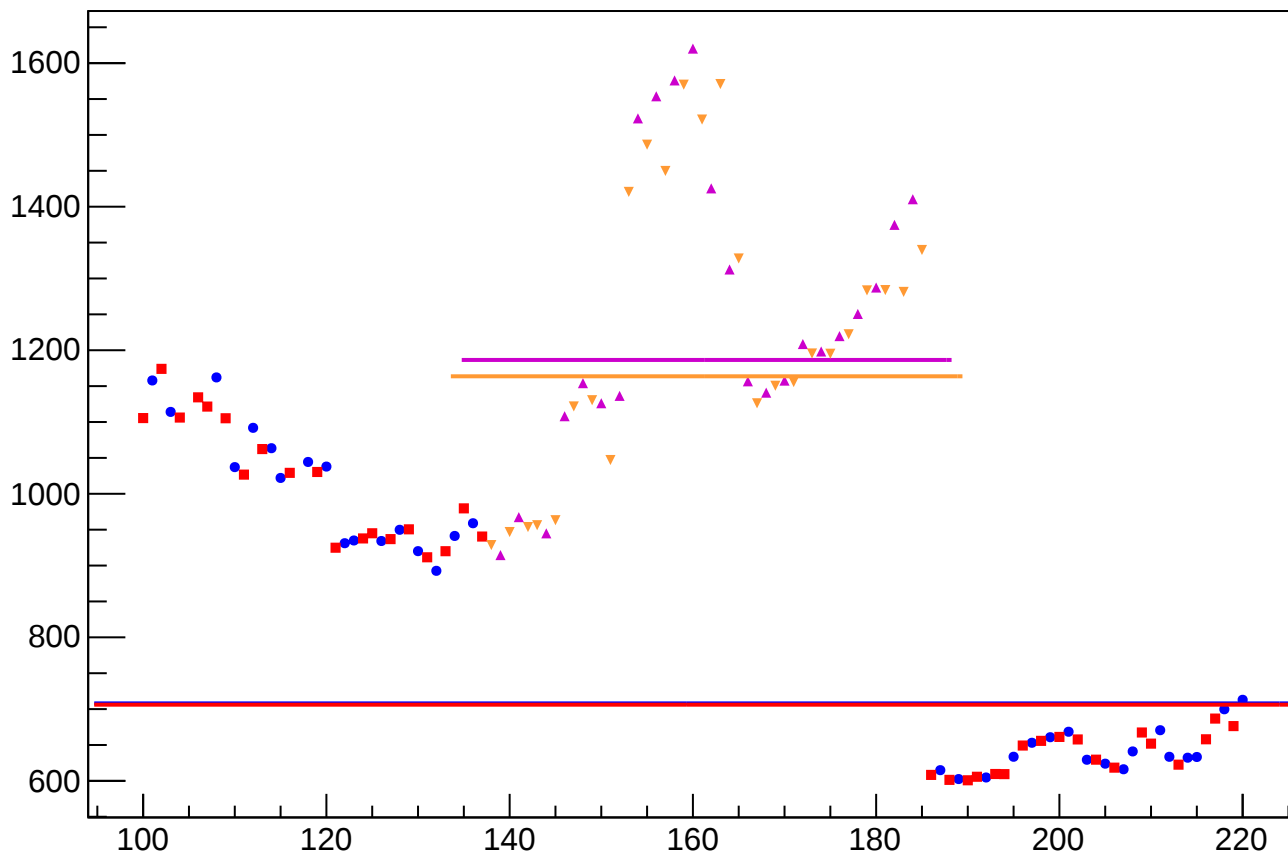
Right: -3.471 ± 0.116 χ^2/NDF : 348240.1/70

In: -18.829 ± 0.144 χ^2/NDF : 74927.8/56

Out: 18.487 ± 0.140 χ^2/NDF : 274762.0/61

All: 0.282 ± 0.100 χ^2/NDF : 384193.9/118

diff_bpm2i02X_rms vs Slug, Sign Corrected



Right In: 707.954 $\pm$ 0.117 χ^2 /NDF: 1551357.6/33

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

Right Out: 706.171 $\pm$ 0.115 χ^2 /NDF: 1706613.1/36

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

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

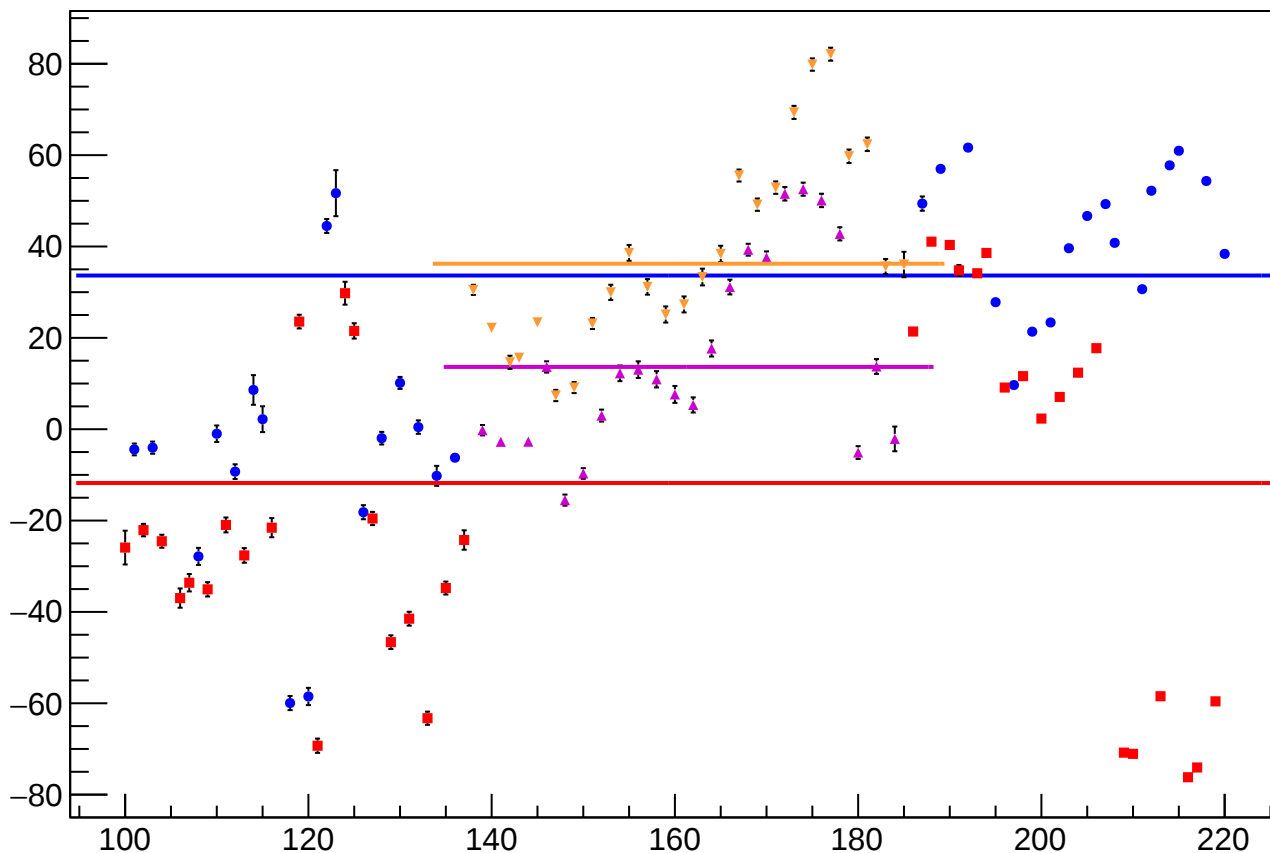
Right: 707.049 $\pm$ 0.082 χ^2 /NDF: 3258088.3/70

In: 826.290 $\pm$ 0.102 χ^2 /NDF:6509413.5/56

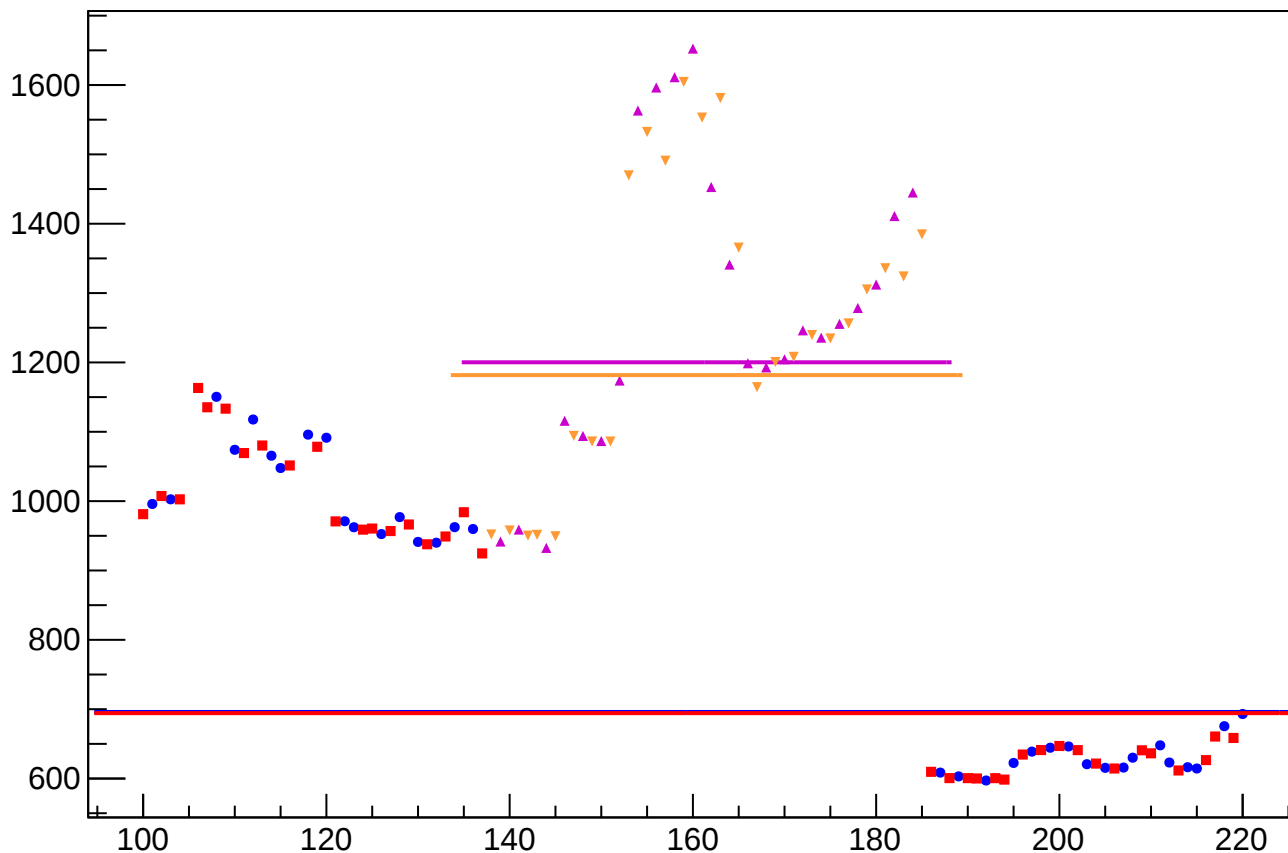
Out: 825.057 $\pm$ 0.099 χ^2 /NDF:6732312.0/61

All: 825.659 $\pm$ 0.071 χ^2 /NDF: 13241800.9/111

diff_bpm2i02Y_mean vs Slug, Sign Corrected



diff_bpm2i02Y_rms vs Slug, Sign Corrected



Right In: 695.981+/-0.115 χ^2/NDF : 1628893.4/33

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

Right Out: 694.315+/-0.114 χ^2/NDF : 1801500.5/36

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

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

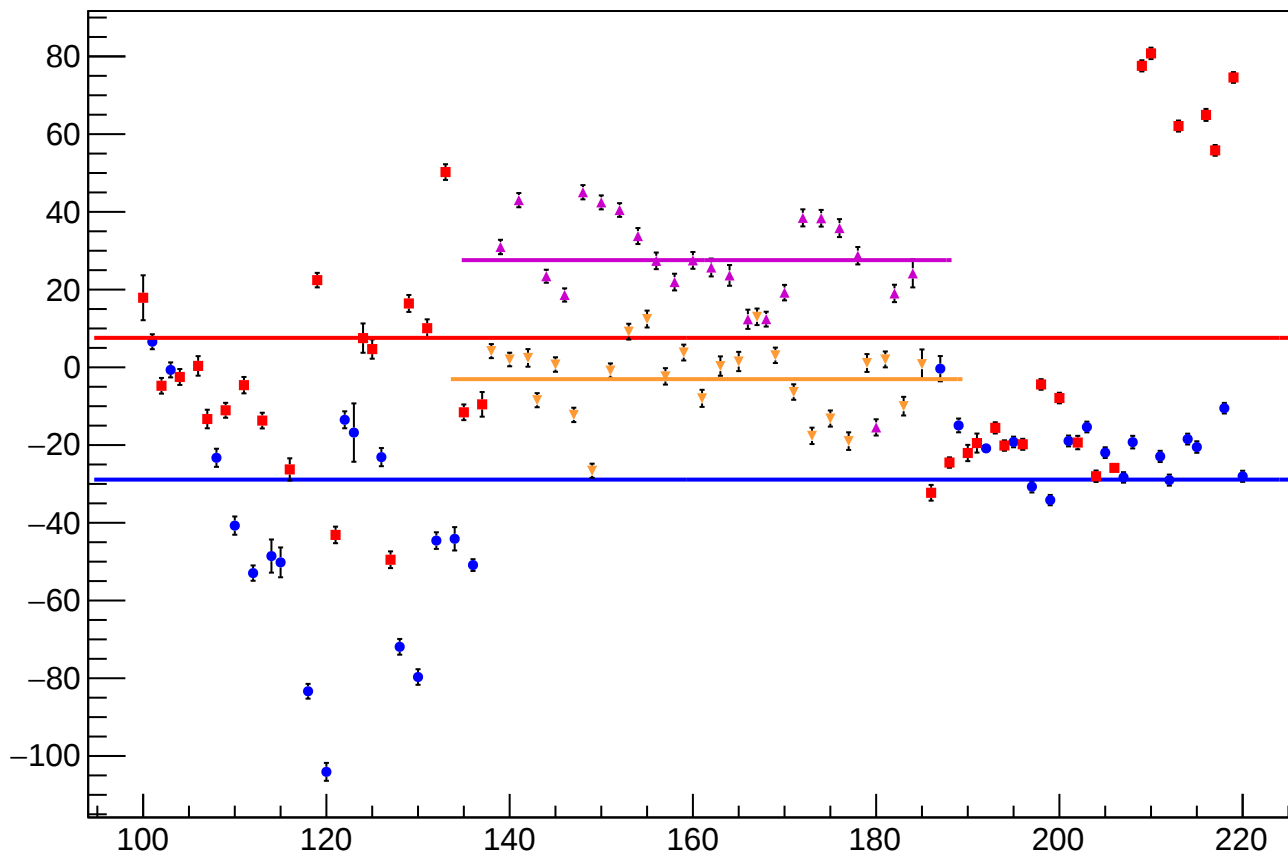
Right: 695.135+/-0.081 χ^2/NDF : 3430500.0/70

In: 815.354+/-0.101 χ^2/NDF :7094112.5/56

Out: 815.002+/-0.098 χ^2/NDF :7409104.9/61

All: 815.174+/-0.070 χ^2/NDF : 14503223.7/11

diff_bpm0i02X_mean vs Slug, Sign Corrected



Right In: -28.888 ± 0.296 $\chi^2/\text{NDF}: 4854.5/33$

Left Out: -3.037 ± 0.415 $\chi^2/\text{NDF}: 555.6/24$

Right Out: 7.584 ± 0.292 $\chi^2/\text{NDF}: 17778.4/36$

Left In: 27.583 ± 0.429 $\chi^2/\text{NDF}: 960.1/22$

Left: 11.767 ± 0.298 $\chi^2/\text{NDF}: 4146.6/47$

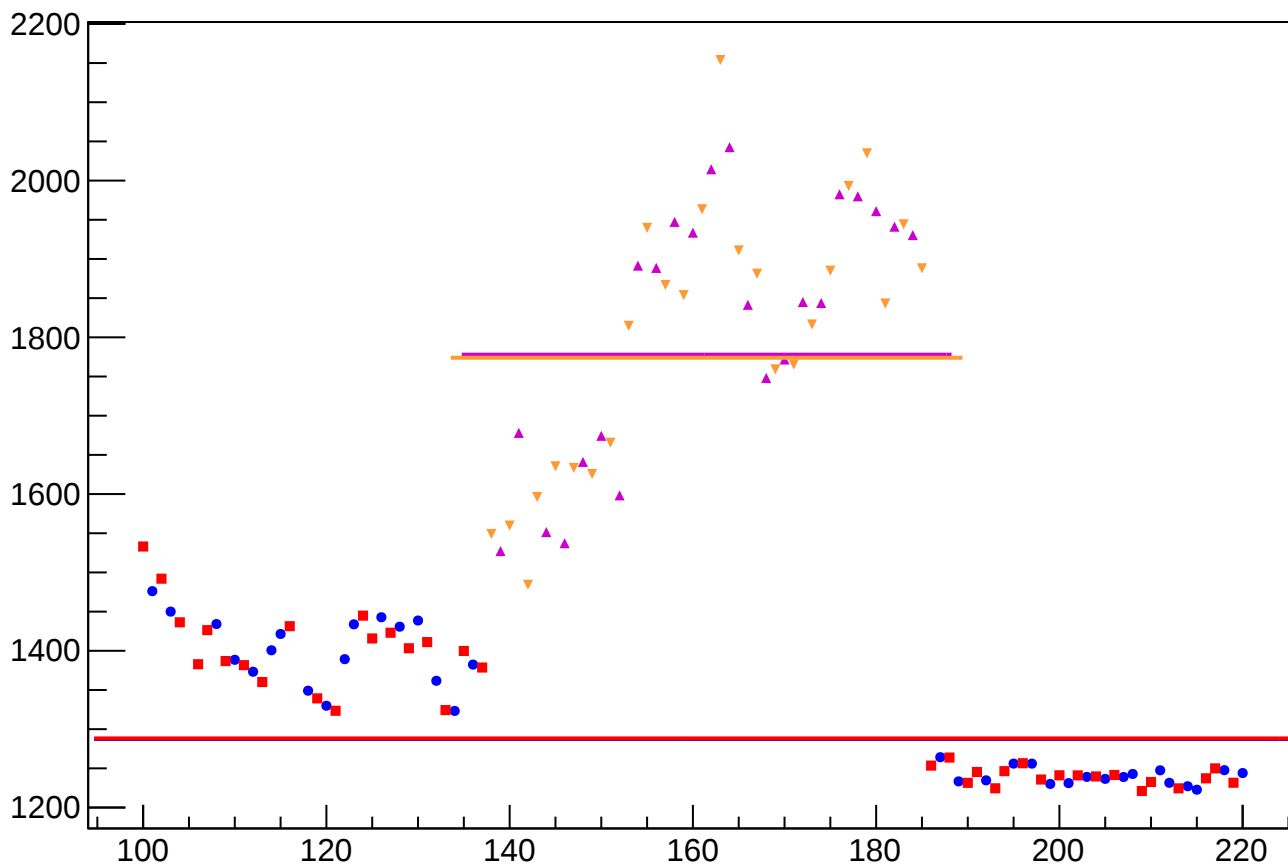
Right: -10.398 ± 0.208 $\chi^2/\text{NDF}: 30349.8/70$

In: -10.708 ± 0.243 $\chi^2/\text{NDF}: 17562.3/56$

Out: 4.076 ± 0.239 $\chi^2/\text{NDF}: 18772.5/61$

All: -3.167 ± 0.170 $\chi^2/\text{NDF}: 38216.1/118$

diff_bpm0i02X_rms vs Slug, Sign Corrected



Right In: 1287.513 $\pm$ 0.209 χ^2 /NDF: 140606.4/33

Left Out: 1773.965 $\pm$ 0.294 χ^2 /NDF: 313031.1/24

Right Out: 1288.151 $\pm$ 0.206 χ^2 /NDF: 139229.1/36

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

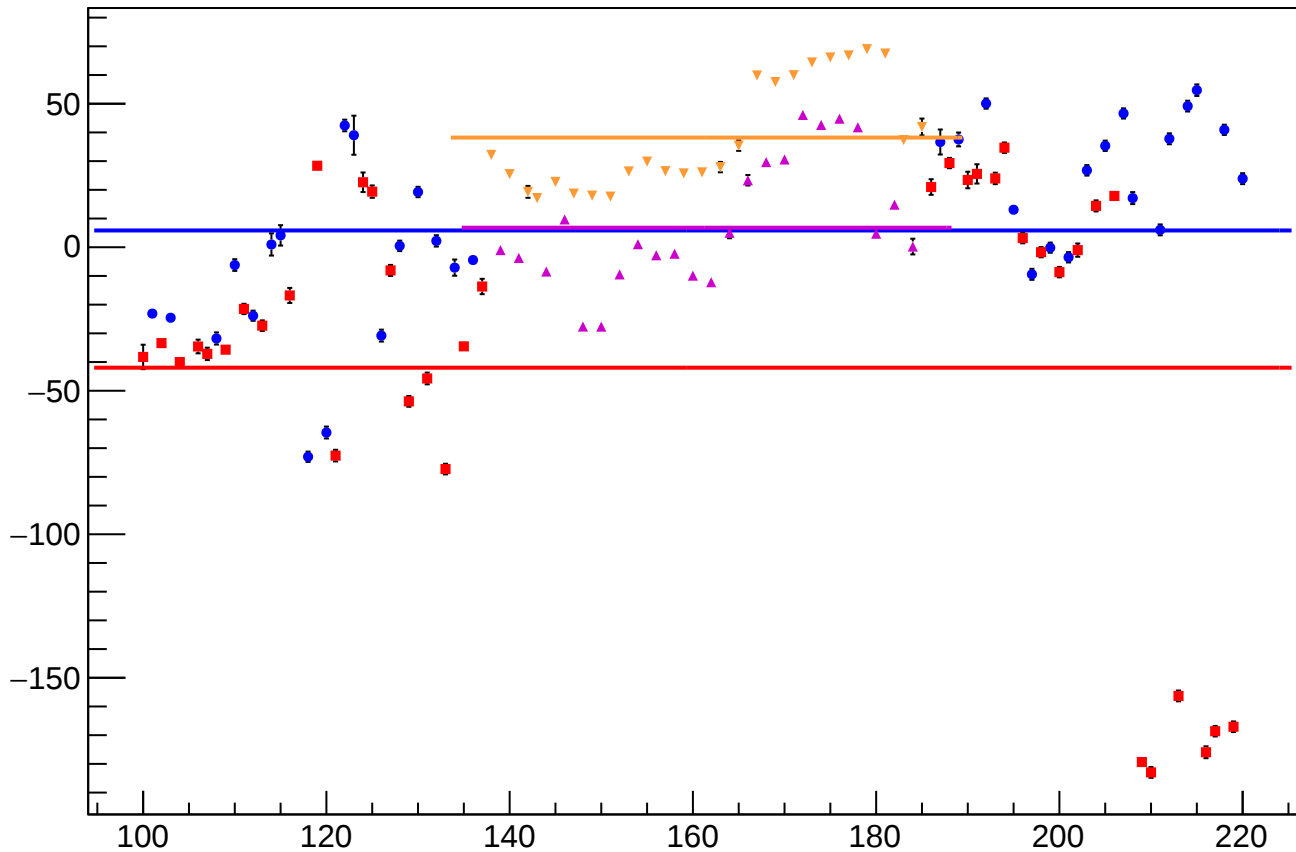
Right: 1287.837 $\pm$ 0.147 χ^2 /NDF: 279840.1/70

In: 1445.381 $\pm$ 0.172 χ^2 /NDF: 2211801.2/56

Out: 1448.626 $\pm$ 0.169 χ^2 /NDF: 2286954.1/61

All: 1447.036 $\pm$ 0.120 χ^2 /NDF: 4498936.7/117

diff_bpm0i02Y_mean vs Slug, Sign Corrected



Right In: 5.843 ± 0.332 $\chi^2/\text{NDF}: 9136.1/33$

Left Out: 38.206 ± 0.323 $\chi^2/\text{NDF}: 3514.2/24$

Right Out: -41.964 ± 0.325 $\chi^2/\text{NDF}: 43223.6/36$

Left In: 6.808 ± 0.333 $\chi^2/\text{NDF}: 4494.5/22$

Left: 22.967 ± 0.232 $\chi^2/\text{NDF}: 12584.4/47$

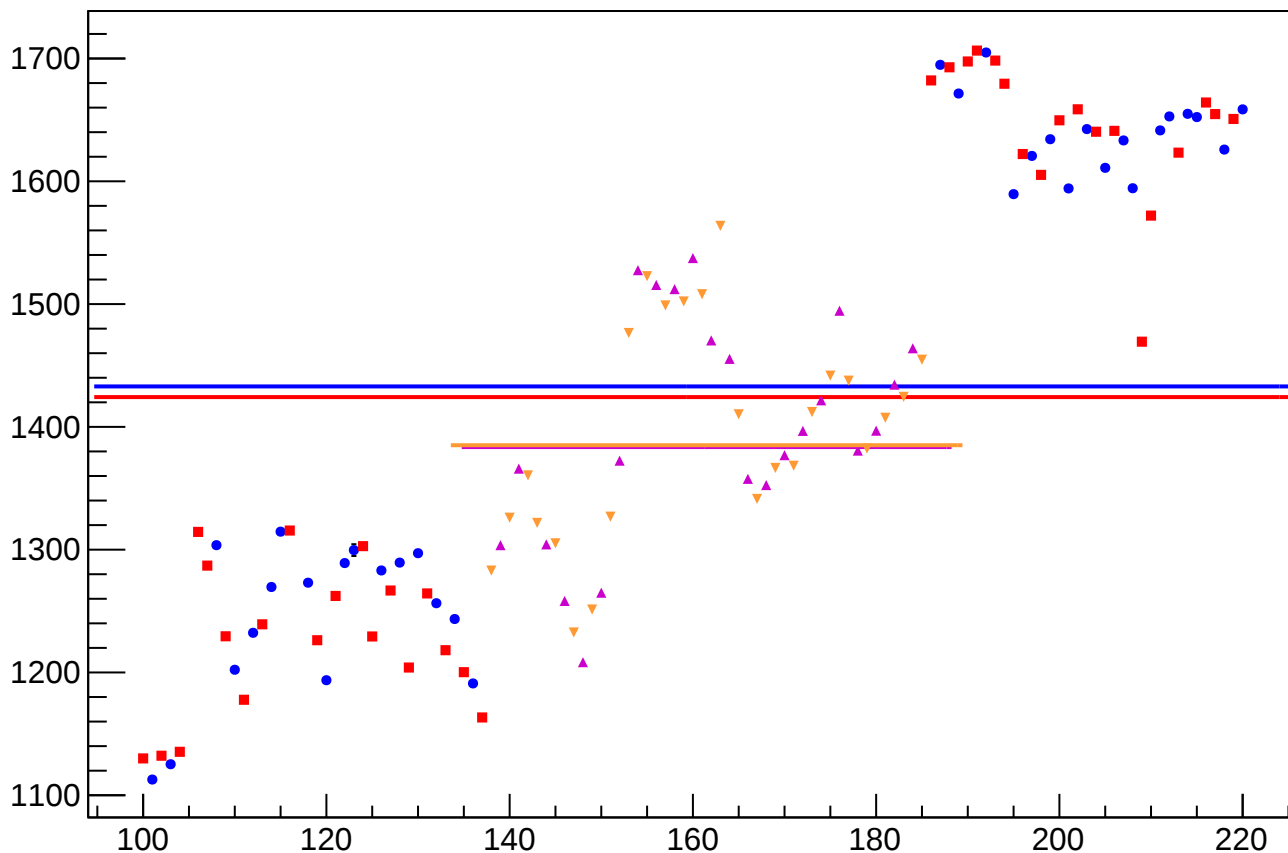
Right: -18.543 ± 0.232 $\chi^2/\text{NDF}: 62930.2/70$

In: 6.324 ± 0.235 $\chi^2/\text{NDF}: 13634.8/56$

Out: -1.621 ± 0.229 $\chi^2/\text{NDF}: 77272.0/61$

All: 2.253 ± 0.164 $\chi^2/\text{NDF}: 91491.8/118$

diff_bpm0i02Y_rms vs Slug, Sign Corrected



Right In: 1432.946 $\pm$ 0.235 χ^2/NDF : 816030.1/33

Left Out: 1385.063 $\pm$ 0.229 χ^2/NDF :146001.5/24

Right Out: 1424.270 $\pm$ 0.230 χ^2/NDF : 884047.1/36

Left In: 1383.558 $\pm$ 0.235 χ^2/NDF :154696.0/22

Left: 1384.333 $\pm$ 0.164 χ^2/NDF : 300718.5/47

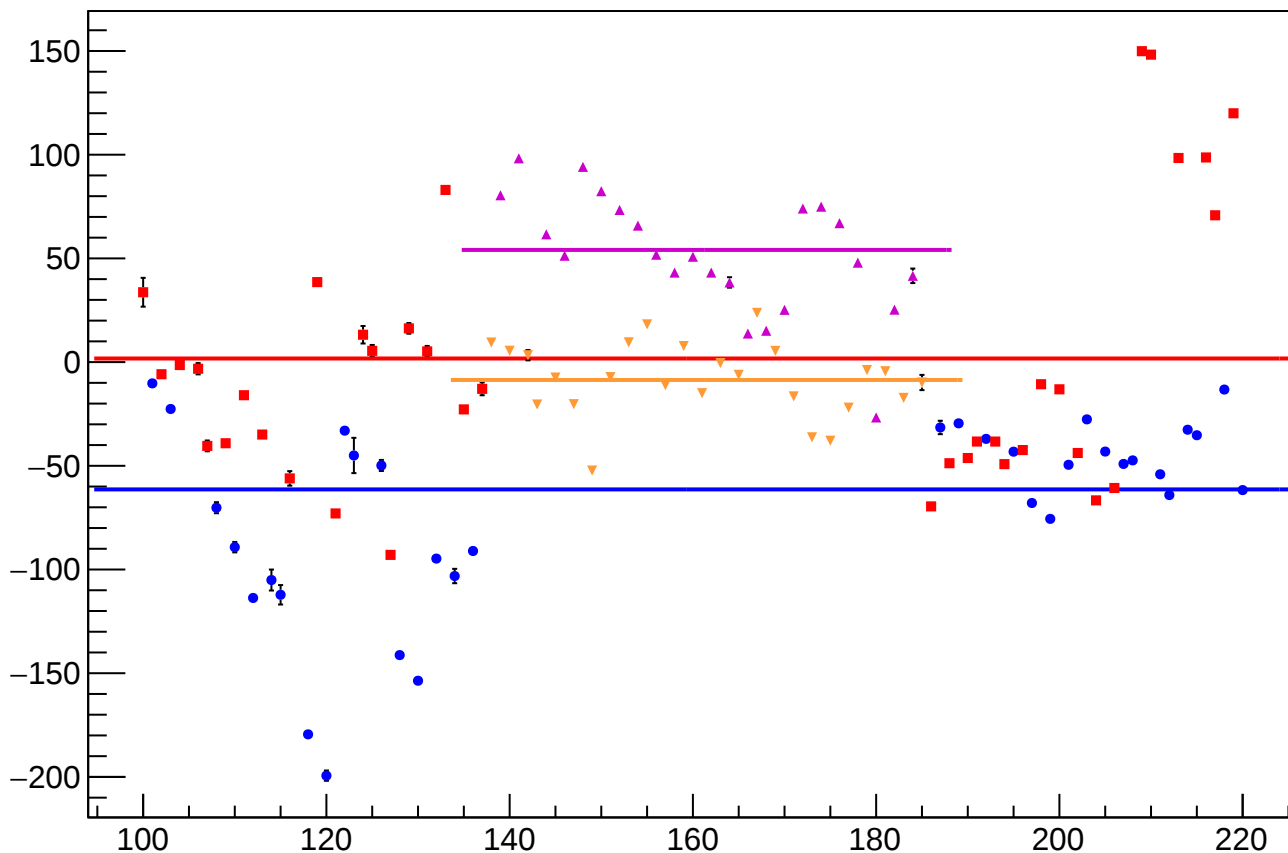
Right: 1428.520 $\pm$ 0.164 χ^2/NDF : 1700773.6/70

In: 1408.318 $\pm$ 0.166 χ^2/NDF :992783.8/56

Out: 1404.540 $\pm$ 0.162 χ^2/NDF :1044653.5/61

All: 1406.382 $\pm$ 0.116 χ^2/NDF : 2037701.8/11

diff_bpm0i02aX_mean vs Slug, Sign Corrected



Right In: -61.379 ± 0.334 $\chi^2/\text{NDF}: 14748.4/33$

Left Out: -8.606 ± 0.410 $\chi^2/\text{NDF}: 1930.5/24$

Right Out: 1.739 ± 0.326 $\chi^2/\text{NDF}: 44142.3/36$

Left In: 54.089 ± 0.426 $\chi^2/\text{NDF}: 4721.6/22$

Left: 21.586 ± 0.295 $\chi^2/\text{NDF}: 17900.0/47$

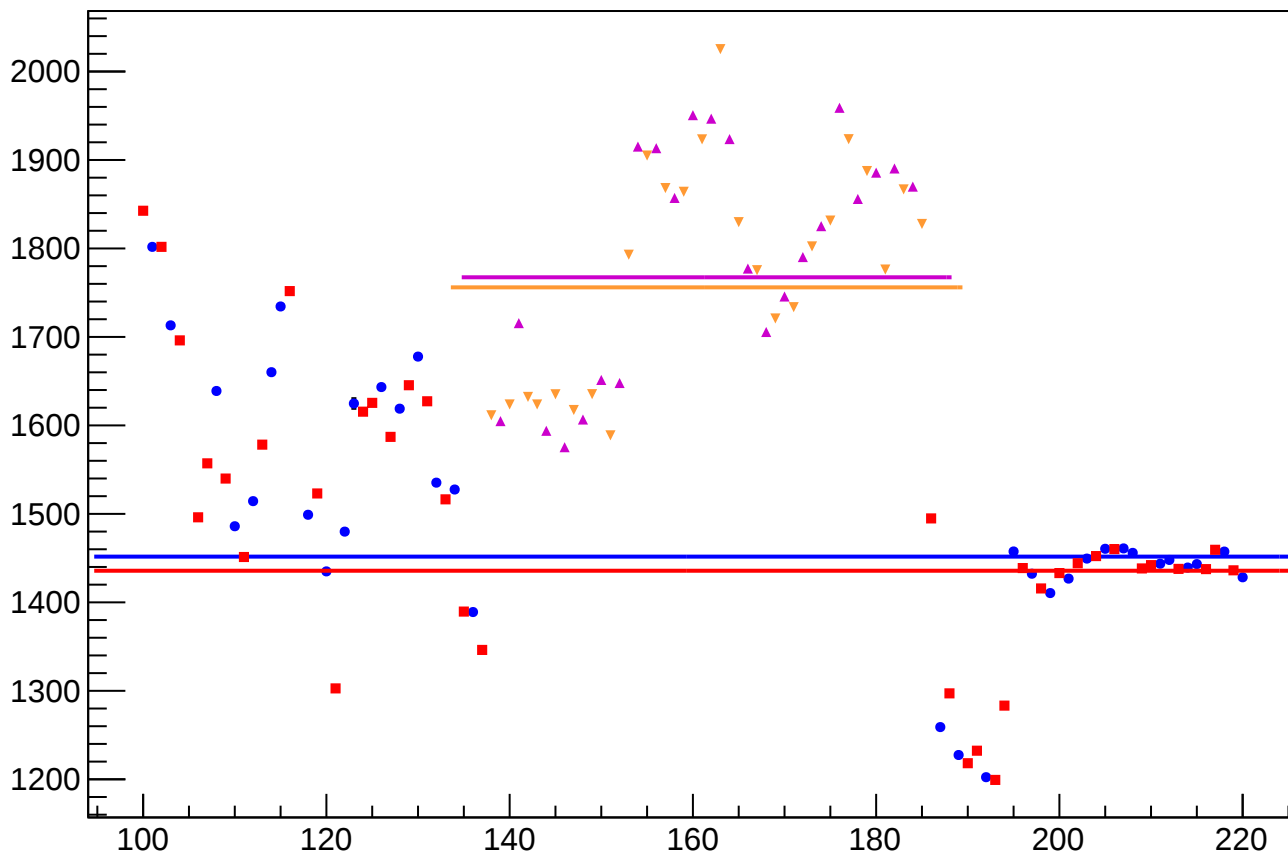
Right: -29.027 ± 0.233 $\chi^2/\text{NDF}: 77206.4/70$

In: -17.391 ± 0.263 $\chi^2/\text{NDF}: 65027.6/56$

Out: -2.259 ± 0.255 $\chi^2/\text{NDF}: 46463.0/61$

All: -9.601 ± 0.183 $\chi^2/\text{NDF}: 113198.6/118$

diff_bpm0i02aX_rms vs Slug, Sign Corrected



Right In: 1451.695 $\pm$ 0.236 χ^2 /NDF: 262318.0/33

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

Right Out: 1435.738 $\pm$ 0.230 χ^2 /NDF: 309256.4/36

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

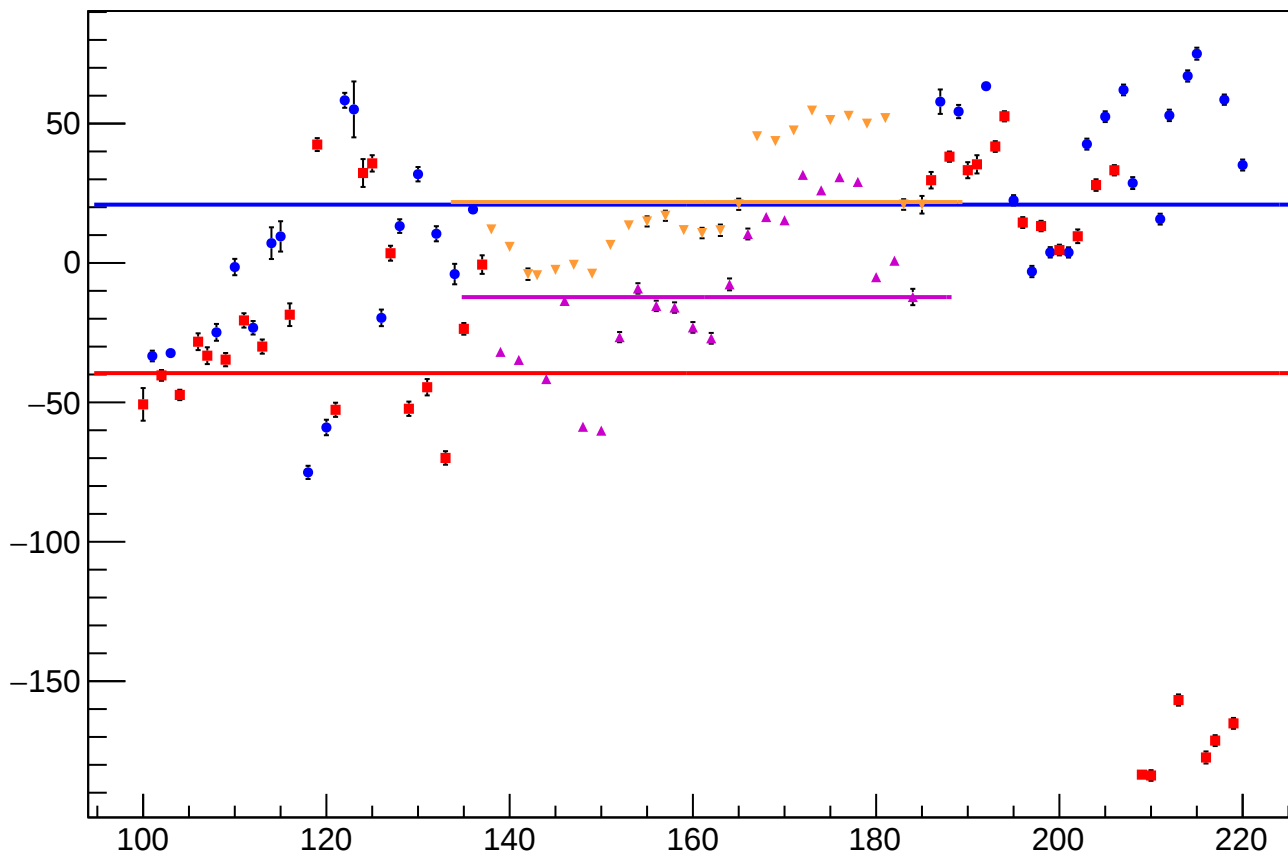
Right: 1443.516 $\pm$ 0.165 χ^2 /NDF: 573915.9/70

In: 1571.968 $\pm$ 0.186 χ^2 /NDF:1131455.9/56

Out: 1559.539 $\pm$ 0.180 χ^2 /NDF:1233015.5/61

All: 1565.569 $\pm$ 0.129 χ^2 /NDF: 2366776.2/11

diff_bpm0i02aY_mean vs Slug, Sign Corrected



Right In: 20.927+/-0.385 χ^2/NDF : 9177.6/33

Left Out: 21.856+/-0.335 χ^2/NDF : 4110.5/24

Right Out: -39.505+/-0.376 χ^2/NDF : 45427.2/36

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

Left: 5.391+/-0.241 χ^2/NDF : 15885.7/47

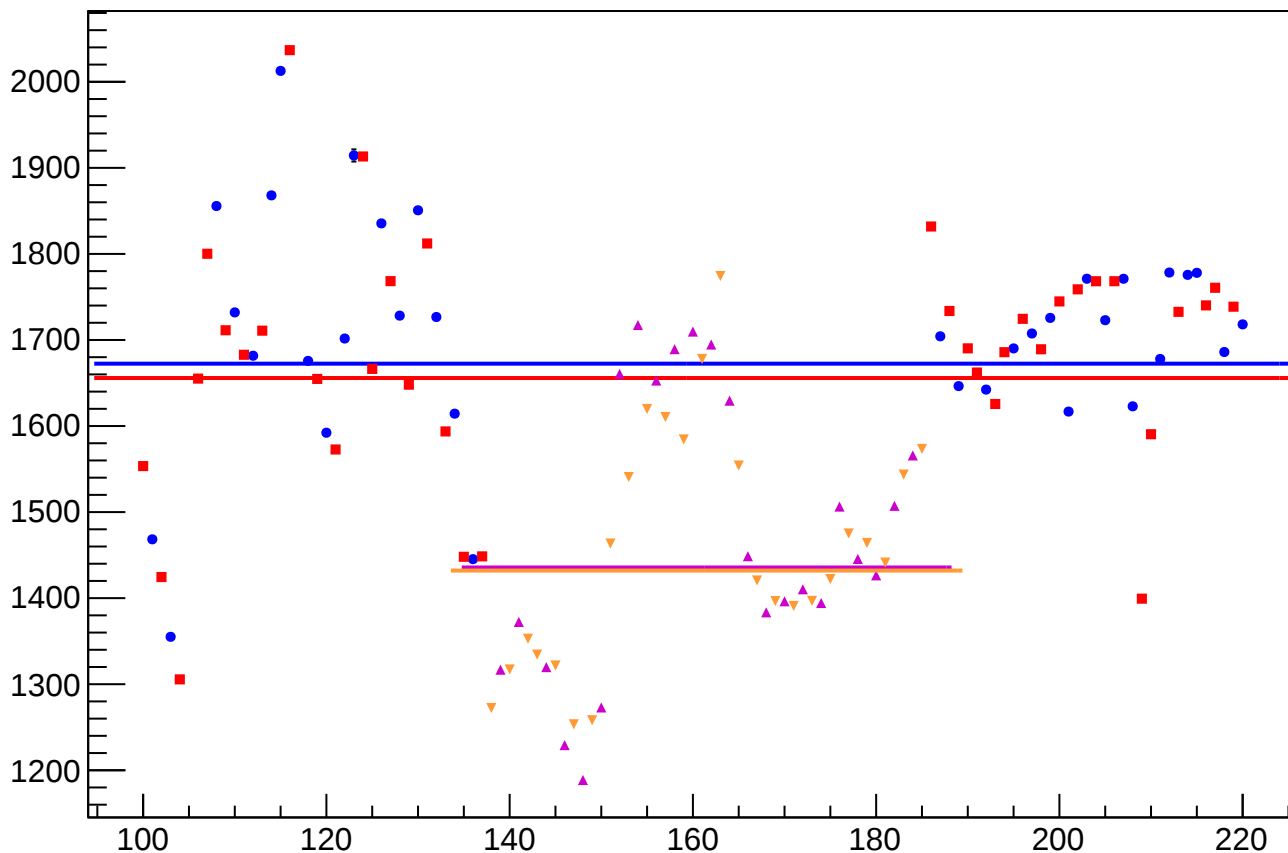
Right: -10.020+/-0.269 χ^2/NDF : 67230.4/70

In: 2.631+/-0.258 χ^2/NDF : 20056.5/56

Out: -5.353+/-0.250 χ^2/NDF : 64386.4/61

All: -1.480+/-0.180 χ^2/NDF : 84937.1/118

diff_bpm0i02aY_rms vs Slug, Sign Corrected



Right In: 1672.471 $\pm$ 0.272 χ^2 /NDF: 200045.2/33

Left Out: 1432.060 $\pm$ 0.237 χ^2 /NDF:297360.3/24

Right Out: 1655.797 $\pm$ 0.266 χ^2 /NDF: 272586.5/36

Left In: 1435.645 $\pm$ 0.245 χ^2 /NDF:420835.0/22

Left: 1433.791 $\pm$ 0.171 χ^2 /NDF: 718305.7/47

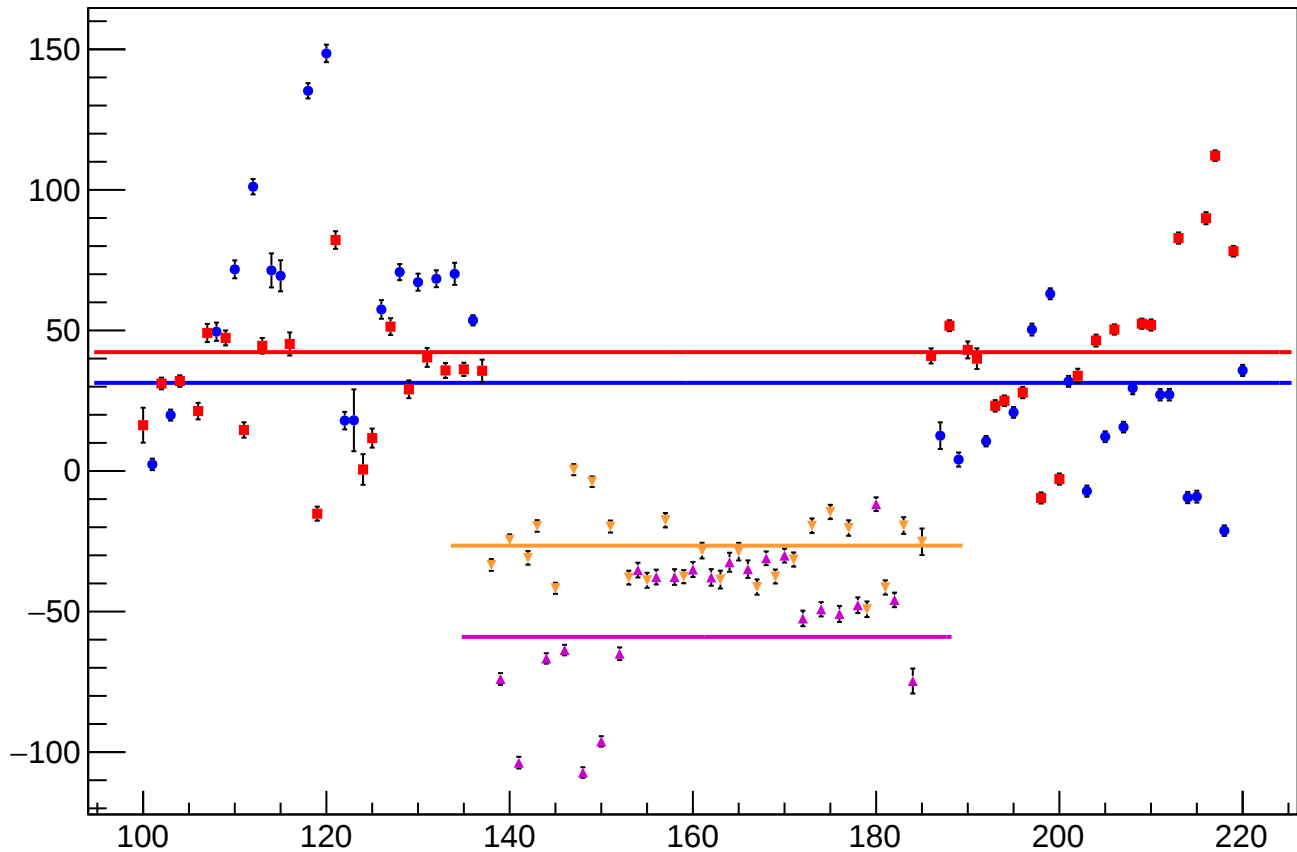
Right: 1663.932 $\pm$ 0.190 χ^2 /NDF: 474553.9/70

In: 1541.853 $\pm$ 0.182 χ^2 /NDF:1038541.5/56

Out: 1531.270 $\pm$ 0.177 χ^2 /NDF:964777.1/61

All: 1536.404 $\pm$ 0.127 χ^2 /NDF: 2005055.0/11

diff_bpm0i05X_mean vs Slug, Sign Corrected



Right In: 31.357+/-0.405 χ^2/NDF : 7631.1/33

Left Out: -26.554+/-0.488 χ^2/NDF : 717.5/24

Right Out: 42.278+/-0.395 χ^2/NDF : 5285.3/36

Left In: -59.014+/-0.506 χ^2/NDF : 2783.8/22

Left: -42.178+/-0.351 χ^2/NDF : 5632.2/47

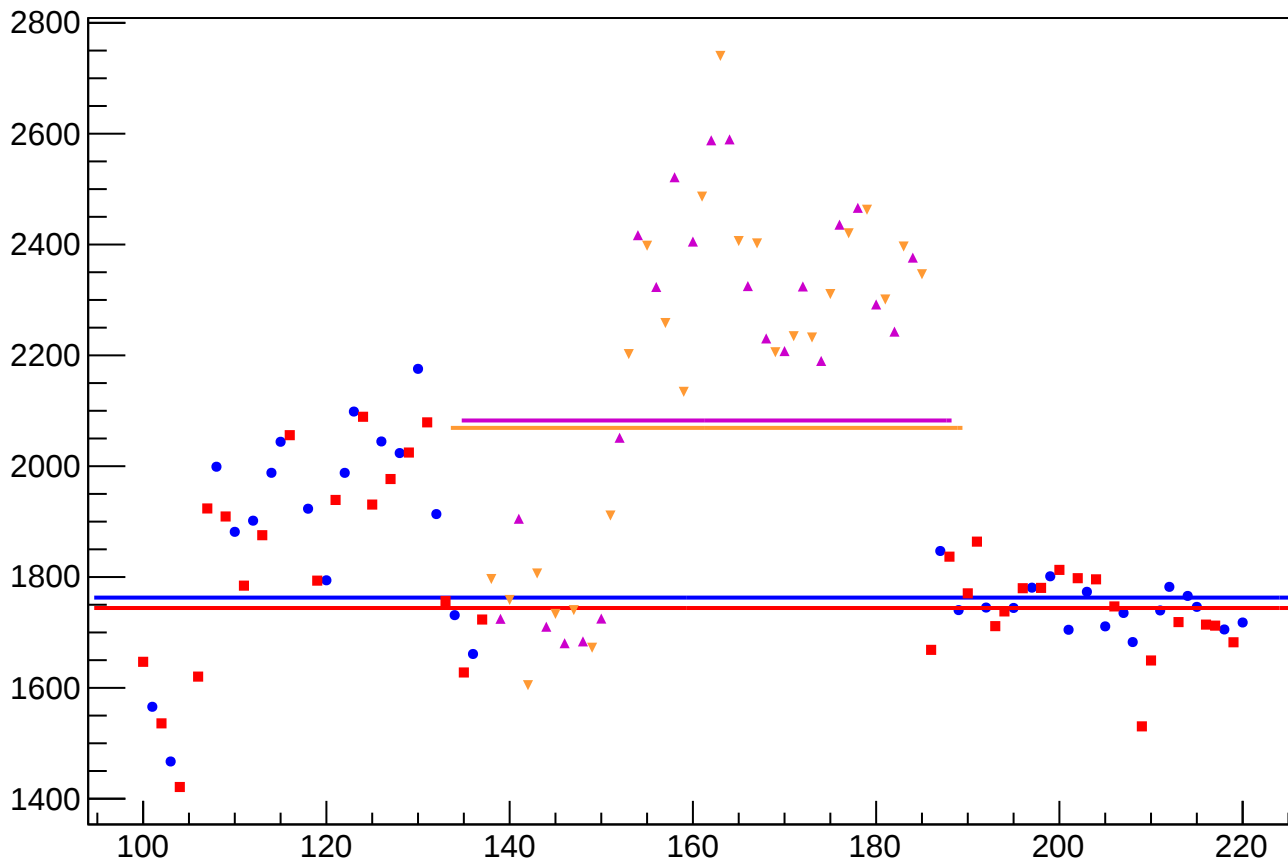
Right: 36.956+/-0.283 χ^2/NDF : 13288.3/70

In: -3.946+/-0.317 χ^2/NDF : 29819.2/56

Out: 14.993+/-0.307 χ^2/NDF : 18018.2/61

All: 5.807+/-0.220 χ^2/NDF : 49681.2/118

diff_bpm0i05X_rms vs Slug, Sign Corrected



Right In: 1762.897 $\pm$ 0.287 χ^2/NDF : 201775.8/33

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

Right Out: 1744.116 $\pm$ 0.280 χ^2/NDF : 231587.2/36

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

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

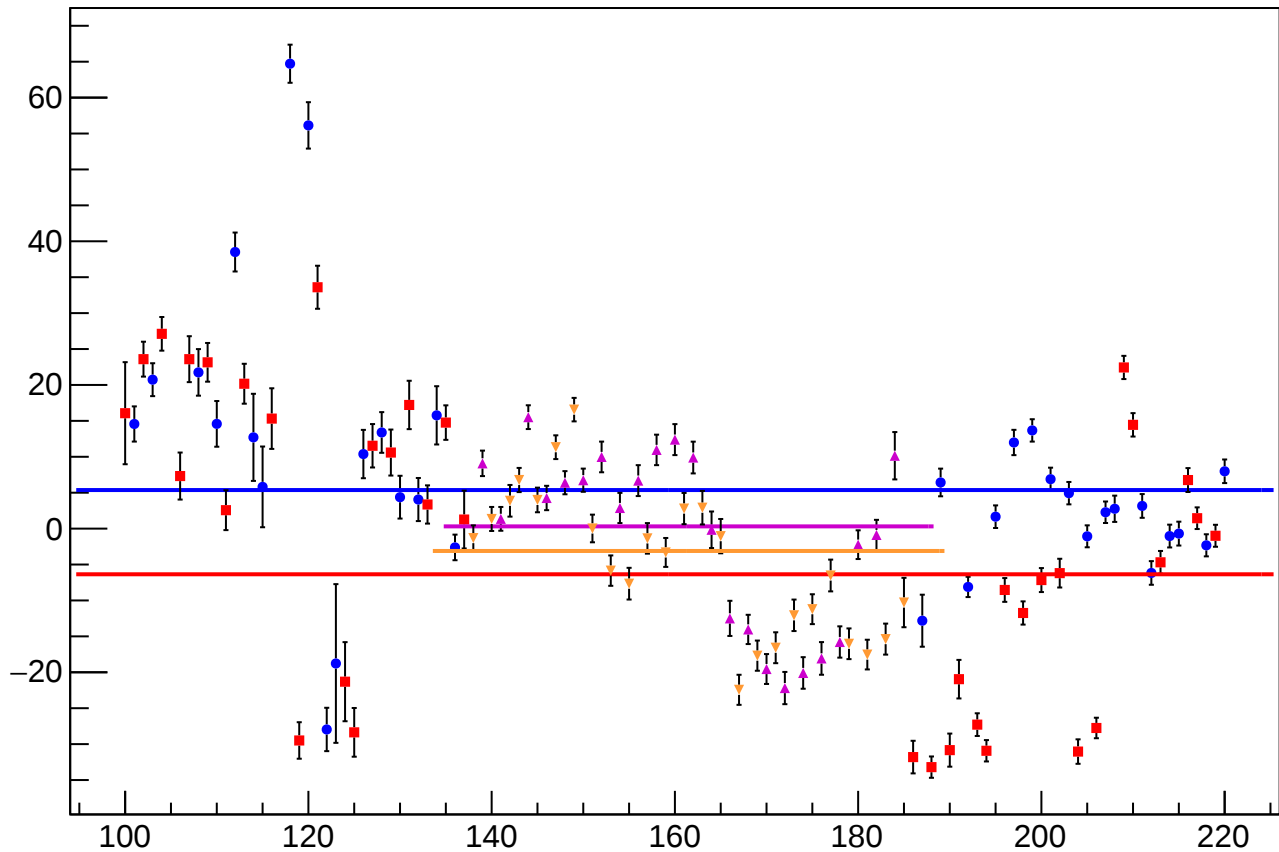
Right: 1753.269 $\pm$ 0.200 χ^2/NDF : 435562.5/70

In: 1887.748 $\pm$ 0.224 χ^2/NDF : 1472466.2/56

Out: 1872.959 $\pm$ 0.217 χ^2/NDF : 1566457.9/61

All: 1880.132 $\pm$ 0.156 χ^2/NDF : 3041172.5/11

diff_bpm0i05Y_mean vs Slug, Sign Corrected



Right In: 5.369 $\pm$ 0.350 χ^2/NDF : 1453.4/33

Left Out: -3.112 $\pm$ 0.404 χ^2/NDF : 643.7/24

Right Out: -6.358 $\pm$ 0.343 χ^2/NDF : 3309.8/36

Left In: 0.312 $\pm$ 0.421 χ^2/NDF : 736.5/22

Left: -1.470 $\pm$ 0.292 χ^2/NDF : 1414.7/47

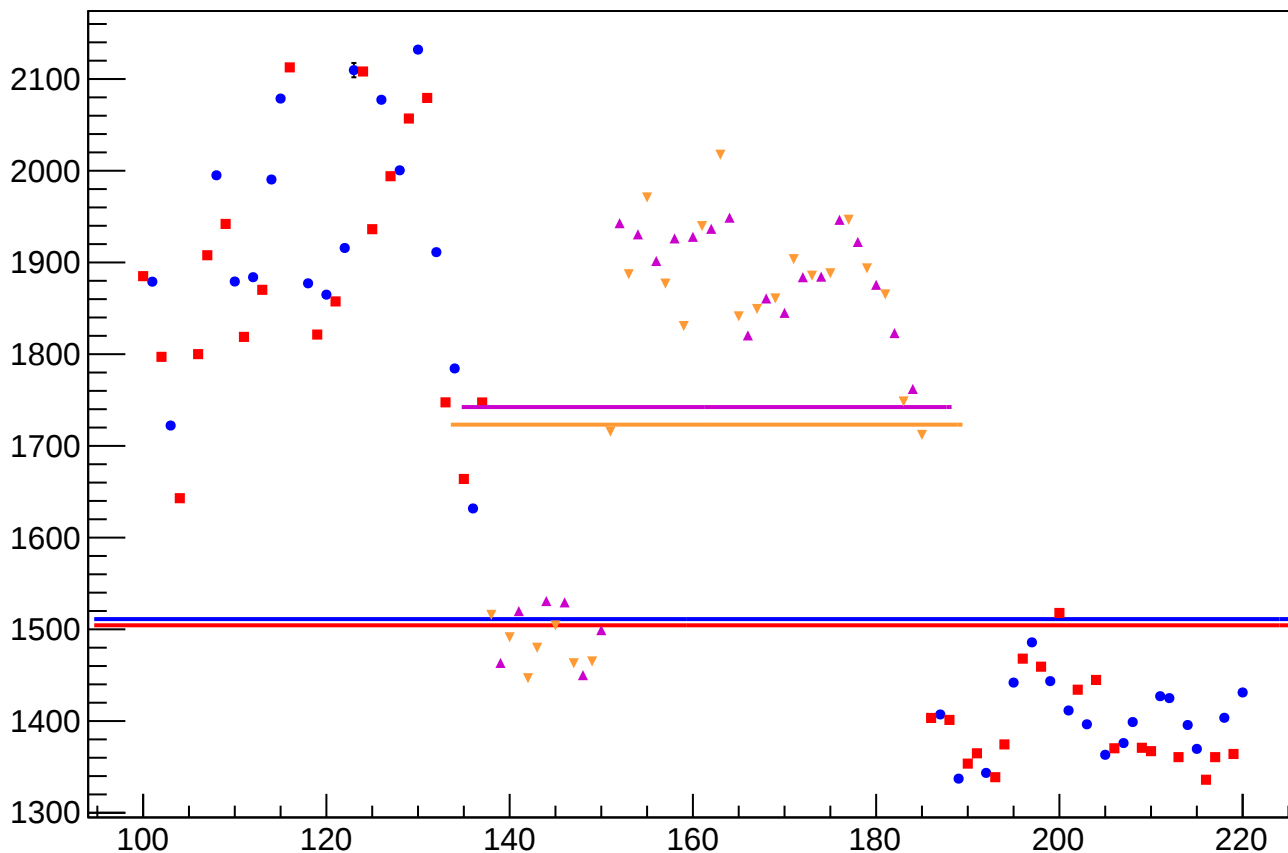
Right: -0.606 $\pm$ 0.245 χ^2/NDF : 5335.3/70

In: 3.303 $\pm$ 0.269 χ^2/NDF : 2275.2/56

Out: -4.997 $\pm$ 0.262 χ^2/NDF : 3991.0/61

All: -0.964 $\pm$ 0.188 χ^2/NDF : 6755.0/118

diff_bpm0i05Y_rms vs Slug, Sign Corrected



Right In: 1511.161 $\pm$ 0.247 χ^2 /NDF: 730780.4/33

Left Out: 1723.168 $\pm$ 0.286 χ^2 /NDF: 477441.1/24

Right Out: 1504.401 $\pm$ 0.243 χ^2 /NDF: 753087.4/36

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

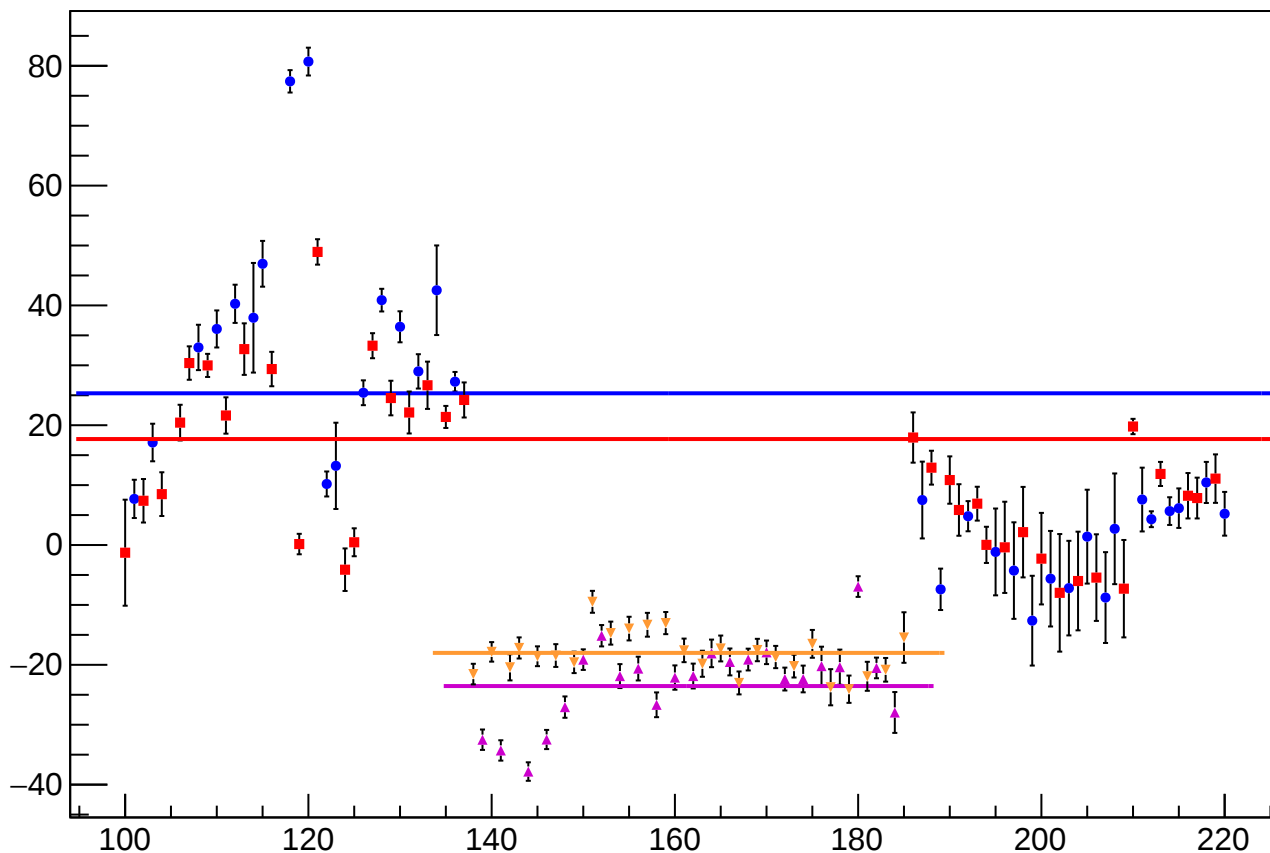
Right: 1507.716 $\pm$ 0.173 χ^2 /NDF: 1484247.9/70

In: 1605.622 $\pm$ 0.190 χ^2 /NDF: 1523194.4/56

Out: 1596.088 $\pm$ 0.185 χ^2 /NDF: 1570789.5/61

All: 1600.721 $\pm$ 0.133 χ^2 /NDF: 3095273.8/111

diff_bpm0i07X_mean vs Slug, Sign Corrected



Right In: 25.330 $\pm$ 0.507 χ^2/NDF : 2306.5/33

Left Out: -18.007 $\pm$ 0.397 χ^2/NDF : 73.8/24

Right Out: 17.692 $\pm$ 0.476 χ^2/NDF : 744.8/36

Left In: -23.544 $\pm$ 0.406 χ^2/NDF : 346.7/22

Left: -20.714 $\pm$ 0.284 χ^2/NDF : 515.7/47

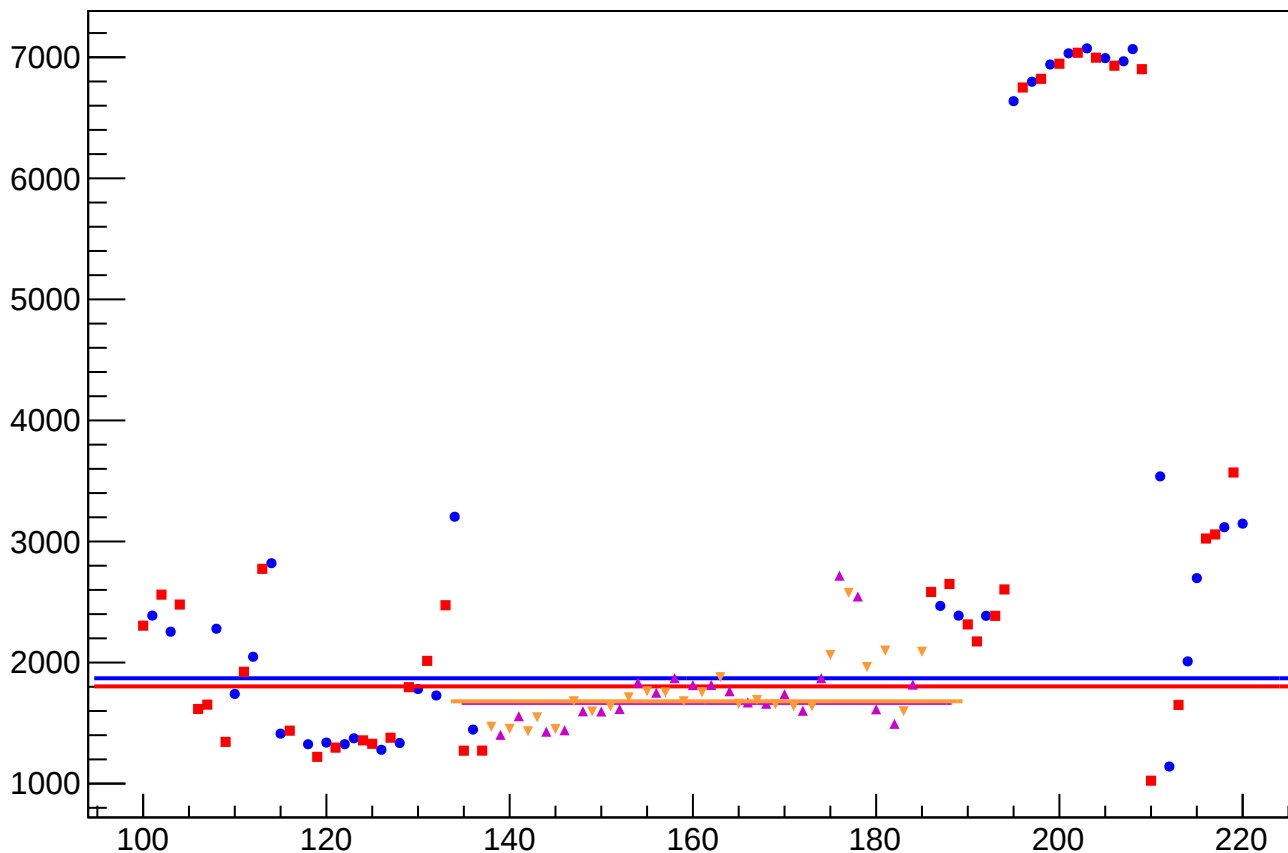
Right: 21.271 $\pm$ 0.347 χ^2/NDF : 3171.9/70

In: -4.464 $\pm$ 0.317 χ^2/NDF : 8320.1/56

Out: -3.376 $\pm$ 0.305 χ^2/NDF : 4137.9/61

All: -3.899 $\pm$ 0.220 χ^2/NDF : 12464.1/118

diff_bpm0i07X_rms vs Slug, Sign Corrected



Right In: 1870.120+/-0.358 χ^2/NDF : 9334025.9/33

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

Right Out: 1802.958+/-0.337 χ^2/NDF : 9192090.9/36

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

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

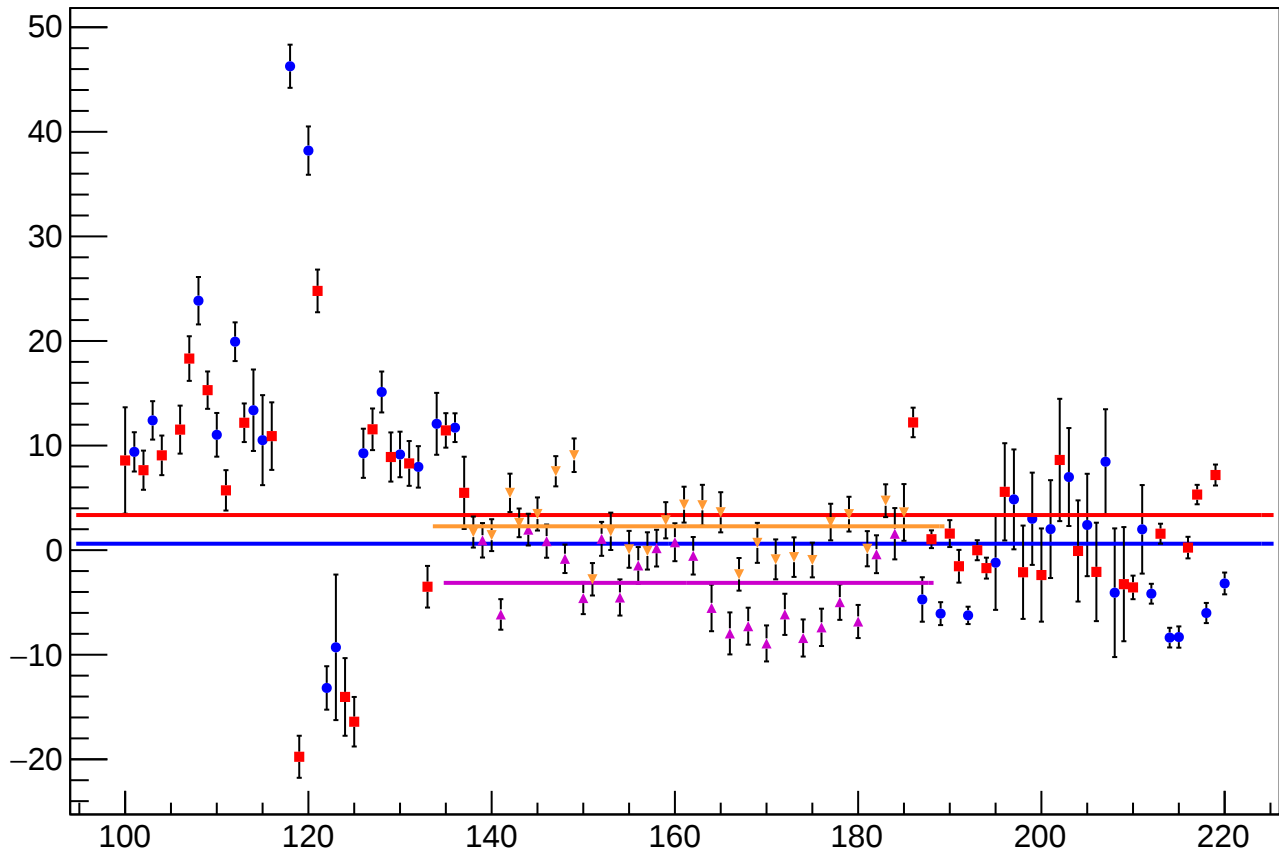
Right: 1834.430+/-0.245 χ^2/NDF : 18544773.6/70

In: 1746.186+/-0.224 χ^2/NDF : 10181125.3/56

Out: 1730.285+/-0.215 χ^2/NDF : 9793878.2/61

All: 1737.929+/-0.155 χ^2/NDF : 19977621.1/131

diff_bpm0i07Y_mean vs Slug, Sign Corrected



Right In: 0.615 ± 0.292 $\chi^2/\text{NDF}: 1668.2/33$

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

Right Out: 3.356 ± 0.264 $\chi^2/\text{NDF}: 723.3/36$

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

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

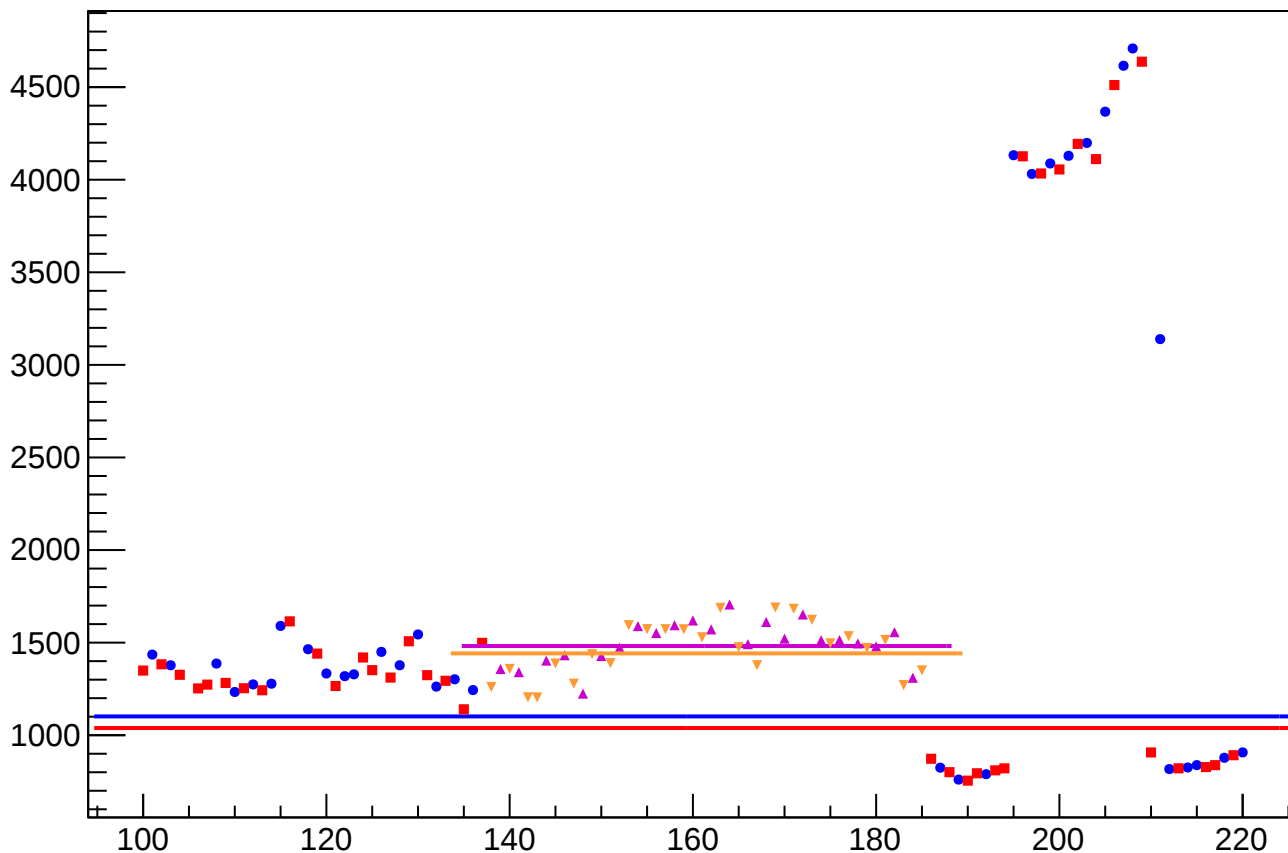
Right: 2.122 ± 0.196 $\chi^2/\text{NDF}: 2440.1/70$

In: -0.881 ± 0.226 $\chi^2/\text{NDF}: 1837.4/56$

Out: 2.949 ± 0.208 $\chi^2/\text{NDF}: 805.2/61$

All: 1.192 ± 0.153 $\chi^2/\text{NDF}: 2797.9/118$

diff_bpm0i07Y_rms vs Slug, Sign Corrected



Right In: 1101.467 $\pm$ 0.206 χ^2 /NDF: 8988767.8/33

Left Out: 1441.951 $\pm$ 0.239 χ^2 /NDF: 370617.4/24

Right Out: 1038.790 $\pm$ 0.187 χ^2 /NDF: 7639112.4/36

Left In: 1481.695 $\pm$ 0.253 χ^2 /NDF: 208470.6/22

Left: 1460.716 $\pm$ 0.174 χ^2 /NDF: 592125.7/47

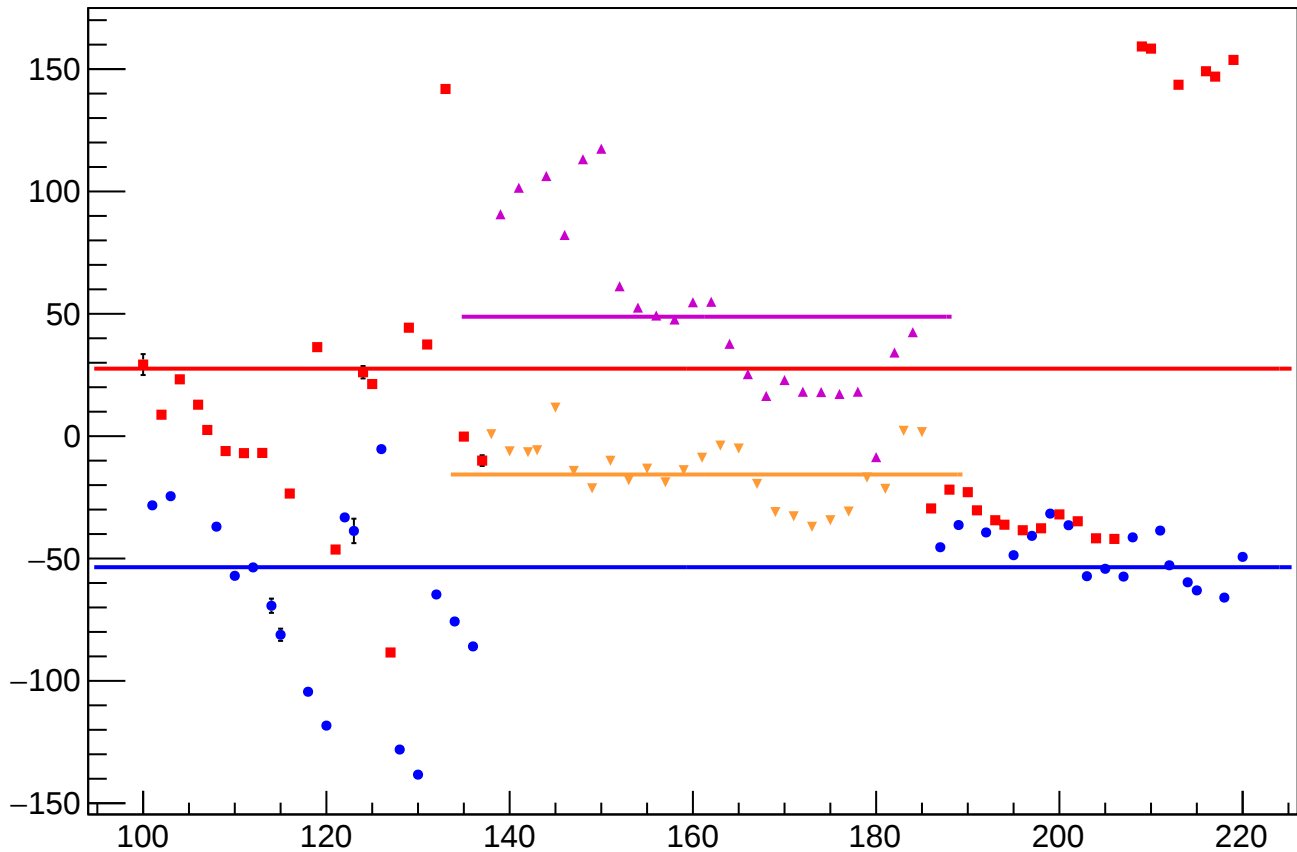
Right: 1067.013 $\pm$ 0.138 χ^2 /NDF: 16678618.4/70

In: 1253.402 $\pm$ 0.160 χ^2 /NDF: 10554562.1/56

Out: 1191.455 $\pm$ 0.147 χ^2 /NDF: 9775154.2/61

All: 1219.875 $\pm$ 0.108 χ^2 /NDF: 20410988.7/117

diff_bpm1i02X_mean vs Slug, Sign Corrected



Right In: -53.547 ± 0.163 $\chi^2/\text{NDF}: 18246.8/33$

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

Right Out: 27.591 ± 0.161 $\chi^2/\text{NDF}: 264968.9/36$

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

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

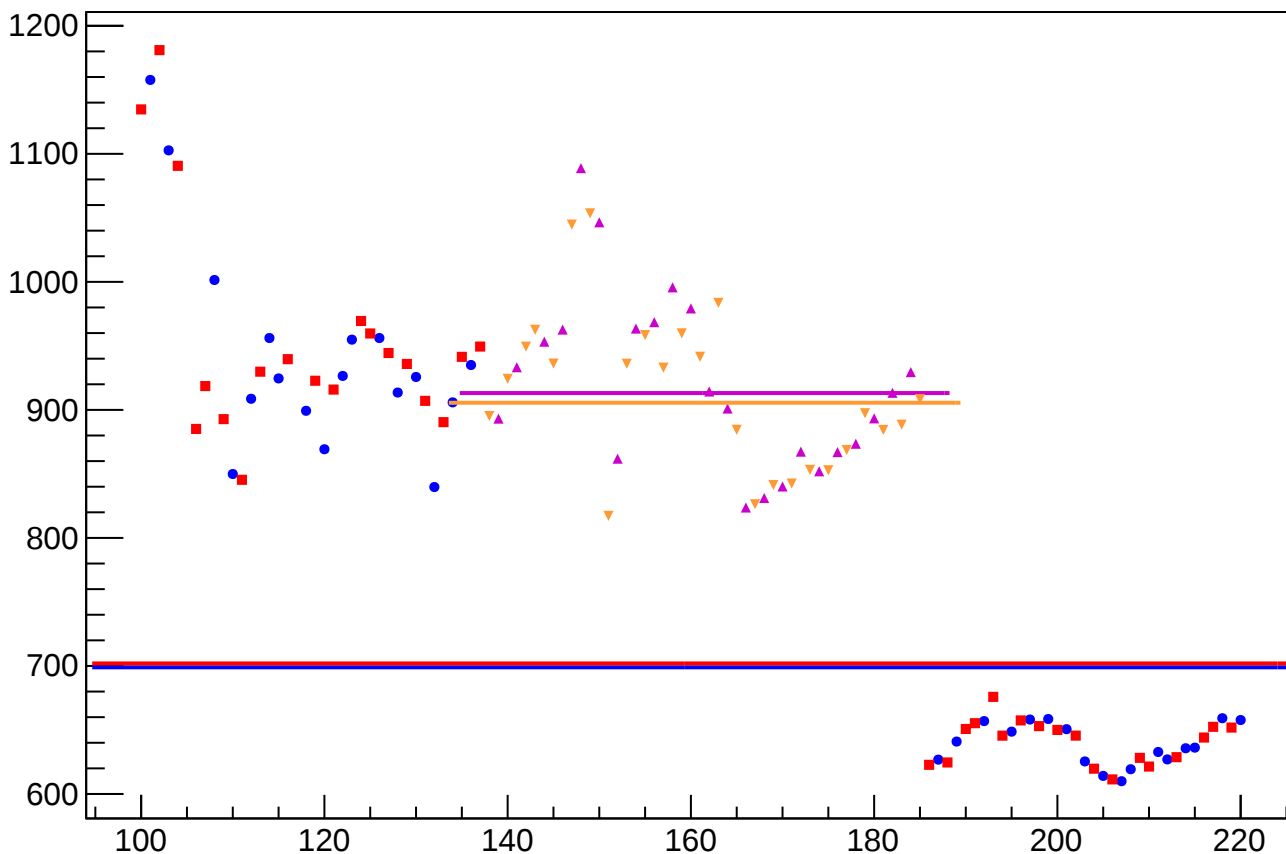
Right: -12.567 ± 0.115 $\chi^2/\text{NDF}: 408687.6/70$

In: -17.304 ± 0.131 $\chi^2/\text{NDF}: 183496.7/56$

Out: 11.704 ± 0.128 $\chi^2/\text{NDF}: 294950.6/61$

All: -2.503 ± 0.092 $\chi^2/\text{NDF}: 503530.0/118$

diff_bpm1i02X_rms vs Slug, Sign Corrected



Right In: 698.929 ± 0.115 χ^2/NDF : 1196822.1/33

Left Out: 905.578 ± 0.150 χ^2/NDF : 162073.5/24

Right Out: 701.979 ± 0.114 χ^2/NDF : 1250092.0/36

Left In: 913.165 ± 0.155 χ^2/NDF : 174438.8/22

Left: 909.225 ± 0.108 χ^2/NDF : 337749.0/47

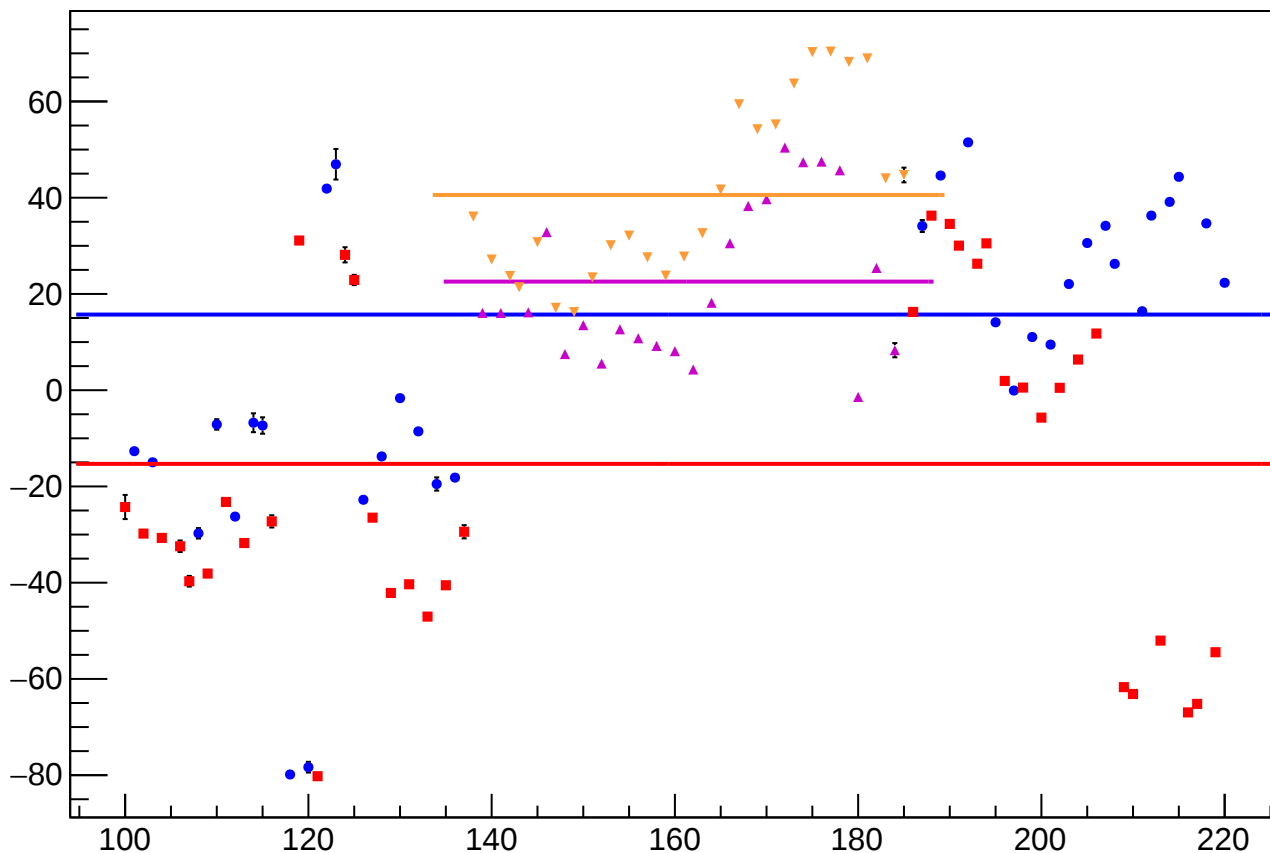
Right: 700.470 ± 0.081 χ^2/NDF : 2447268.7/70

In: 774.784 ± 0.093 χ^2/NDF : 2597712.4/56

Out: 776.755 ± 0.091 χ^2/NDF : 2584694.5/61

All: 775.790 ± 0.065 χ^2/NDF : 5182638.3/118

diff_bpm1i02Y_mean vs Slug, Sign Corrected



Right In: 15.717 $\pm$ 0.122 χ^2/NDF : 49971.4/33

Left Out: 40.573 $\pm$ 0.168 χ^2/NDF :12079.0/24

Right Out: -15.307 $\pm$ 0.120 χ^2/NDF : 89953.7/36

Left In: 22.565 $\pm$ 0.175 χ^2/NDF :8167.7/22

Left: 31.959 $\pm$ 0.121 χ^2/NDF : 25752.7/47

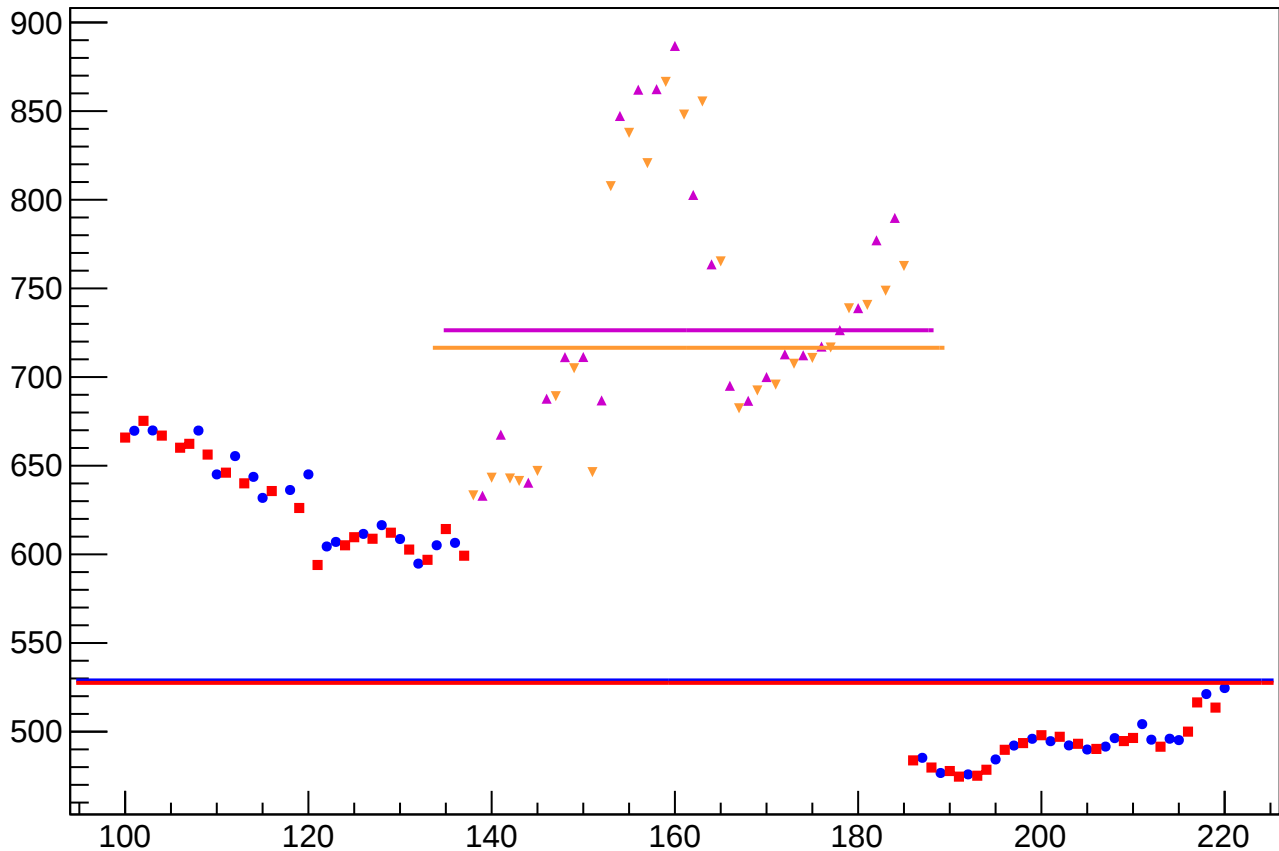
Right: -0.058 $\pm$ 0.086 χ^2/NDF : 172797.8/70

In: 17.953 $\pm$ 0.100 χ^2/NDF :59167.2/56

Out: 3.588 $\pm$ 0.098 χ^2/NDF :175398.1/61

All: 10.585 $\pm$ 0.070 χ^2/NDF : 245118.1/118

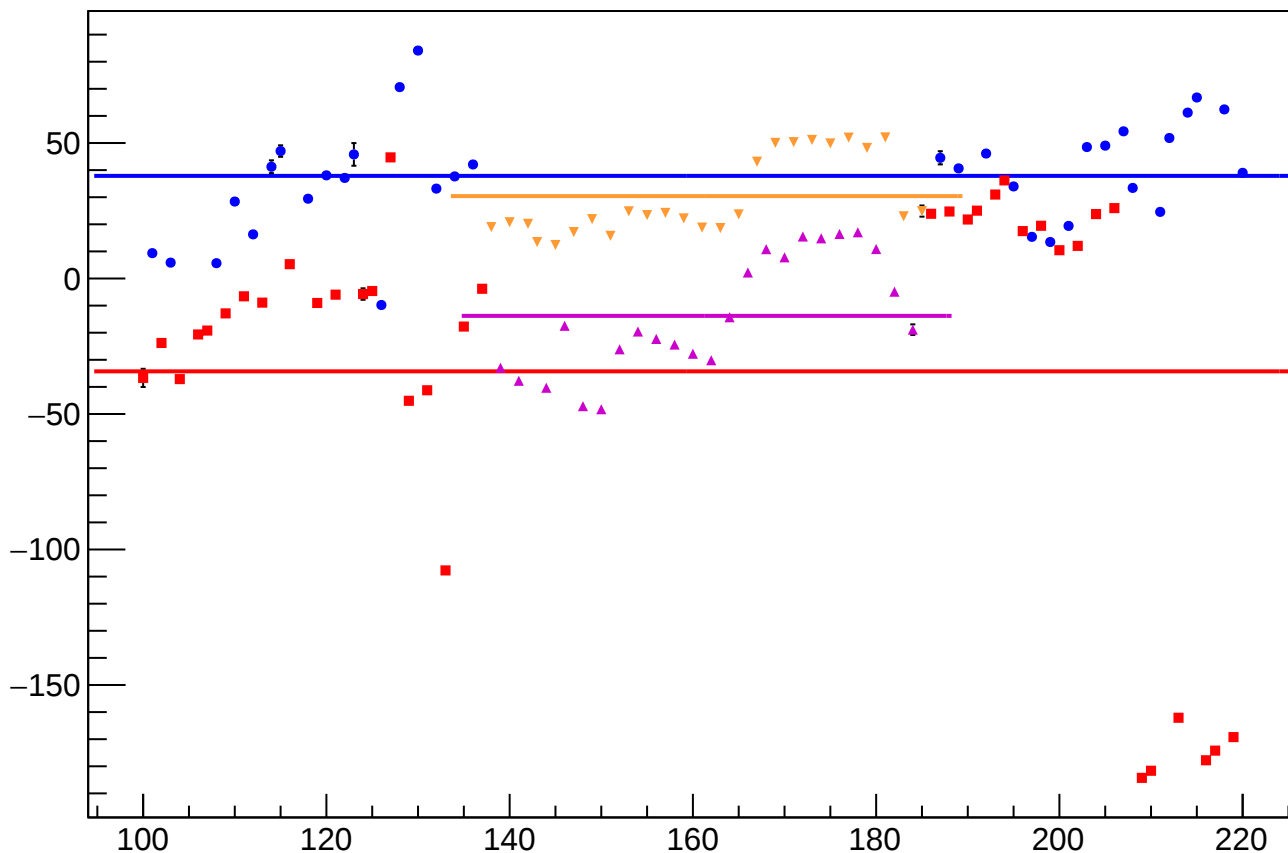
diff_bpm1i02Y_rms vs Slug, Sign Corrected



Right In: 528.887 ± 0.086 χ^2/NDF : 499686.9/33
 Left Out: 716.515 ± 0.119 χ^2/NDF : 342740.2/24
 Right Out: 527.529 ± 0.085 χ^2/NDF : 542091.0/36
 Left In: 726.390 ± 0.124 χ^2/NDF : 289788.8/22

Left: 721.238 ± 0.086 χ^2/NDF : 635840.6/47
 Right: 528.196 ± 0.060 χ^2/NDF : 1041903.9/70
 In: 593.354 ± 0.071 χ^2/NDF : 2499886.7/56
 Out: 591.431 ± 0.069 χ^2/NDF : 2563160.2/61
 All: 592.367 ± 0.049 χ^2/NDF : 5063425.1/118

diff_bpm1i04X_mean vs Slug, Sign Corrected



Right In: 37.872 ± 0.201 $\chi^2/\text{NDF}: 10412.5/33$

Left Out: 30.408 ± 0.237 $\chi^2/\text{NDF}: 3808.0/24$

Right Out: -34.261 ± 0.198 $\chi^2/\text{NDF}: 140299.8/36$

Left In: -13.787 ± 0.246 $\chi^2/\text{NDF}: 7979.7/22$

Left: 9.082 ± 0.171 $\chi^2/\text{NDF}: 28511.9/47$

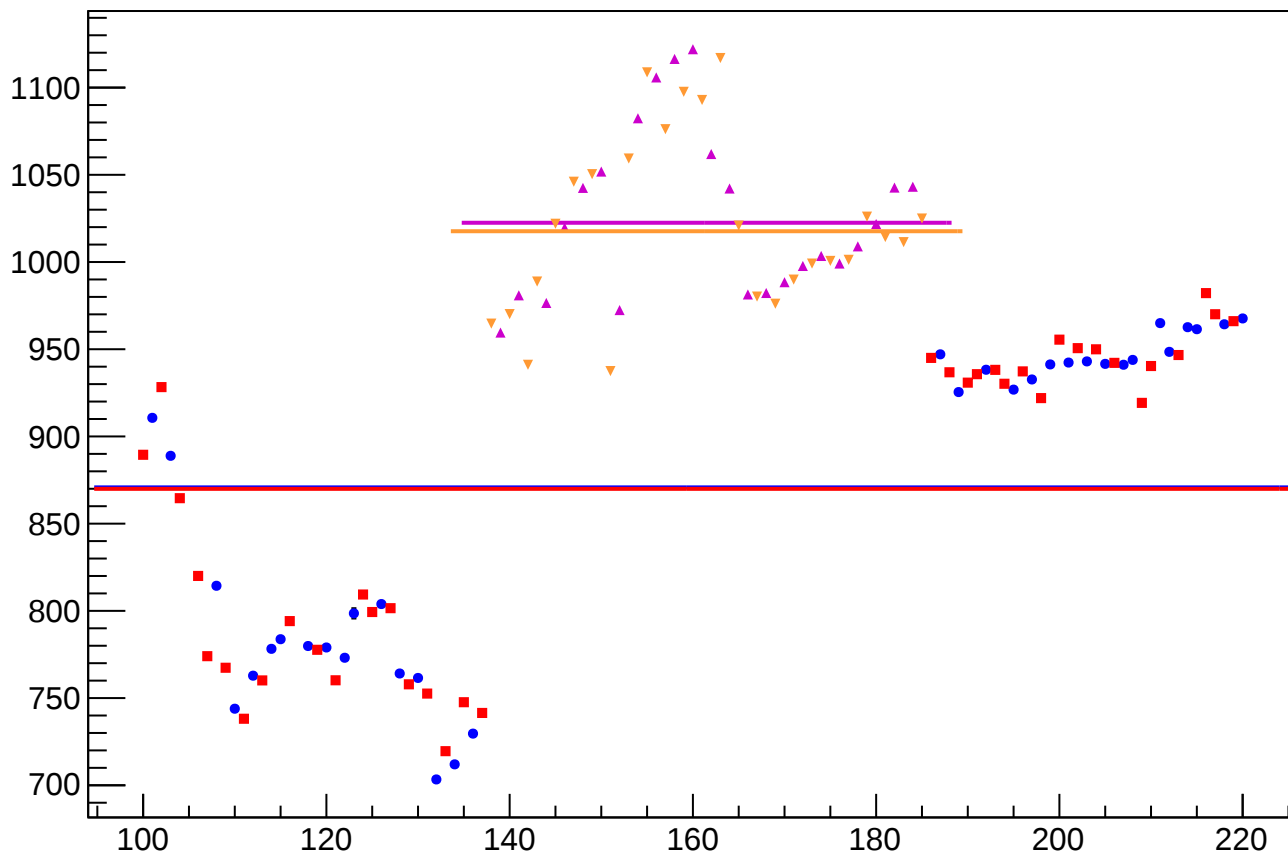
Right: 1.222 ± 0.141 $\chi^2/\text{NDF}: 216329.6/70$

In: 17.208 ± 0.155 $\chi^2/\text{NDF}: 44887.6/56$

Out: -7.810 ± 0.152 $\chi^2/\text{NDF}: 187962.2/61$

All: 4.402 ± 0.109 $\chi^2/\text{NDF}: 246102.6/118$

diff_bpm1i04X_rms vs Slug, Sign Corrected



Right In: 870.790 $\pm$ 0.142 χ^2 /NDF: 425044.2/33

Left Out: 1017.653 $\pm$ 0.168 χ^2 /NDF: 83612.5/24

Right Out: 869.965 $\pm$ 0.140 χ^2 /NDF: 403422.9/36

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

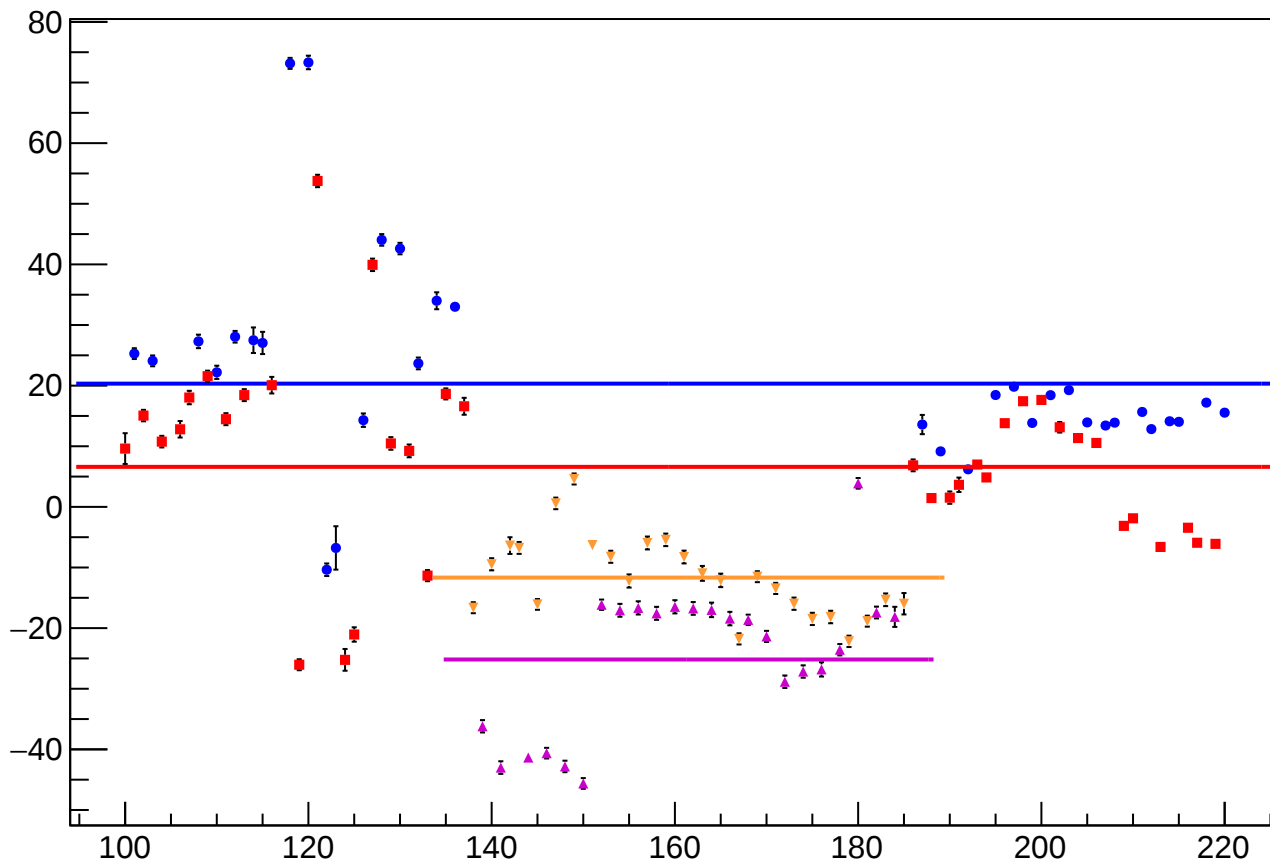
Right: 870.371 $\pm$ 0.100 χ^2 /NDF: 828484.3/70

In: 931.481 $\pm$ 0.110 χ^2 /NDF: 951765.8/56

Out: 930.374 $\pm$ 0.107 χ^2 /NDF: 944470.2/61

All: 930.914 $\pm$ 0.077 χ^2 /NDF: 1896287.8/118

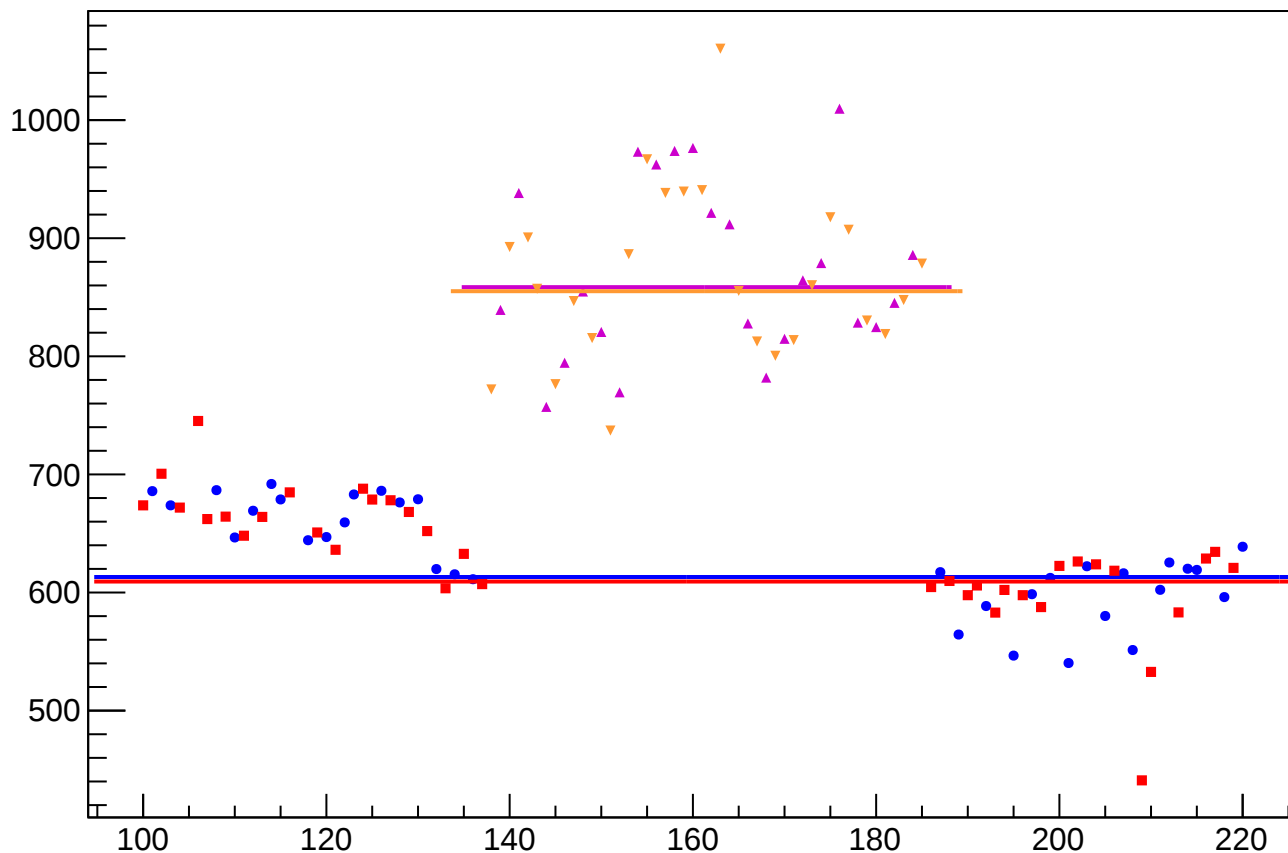
diff_bpm1i04Y_mean vs Slug, Sign Corrected



Right In: 20.330 ± 0.141 $\chi^2/\text{NDF}: 9893.0/33$
 Left Out: -11.664 ± 0.200 $\chi^2/\text{NDF}: 1147.4/24$
 Right Out: 6.603 ± 0.138 $\chi^2/\text{NDF}: 9346.5/36$
 Left In: -25.174 ± 0.207 $\chi^2/\text{NDF}: 3747.1/22$

Left: -18.184 ± 0.144 $\chi^2/\text{NDF}: 7090.4/47$
 Right: 13.330 ± 0.099 $\chi^2/\text{NDF}: 24056.2/70$
 In: 5.909 ± 0.117 $\chi^2/\text{NDF}: 46530.0/56$
 Out: 0.695 ± 0.114 $\chi^2/\text{NDF}: 16121.8/61$
 All: 3.238 ± 0.082 $\chi^2/\text{NDF}: 63673.8/118$

diff_bpm1i04Y_rms vs Slug, Sign Corrected



Right In: 613.147 $\pm$ 0.100 χ^2 /NDF: 169064.0/33

Left Out: 855.131 $\pm$ 0.142 χ^2 /NDF:233746.7/24

Right Out: 609.305 $\pm$ 0.098 χ^2 /NDF: 366855.9/36

Left In: 858.563 $\pm$ 0.147 χ^2 /NDF:239019.8/22

Left: 856.788 $\pm$ 0.102 χ^2 /NDF: 473049.9/47

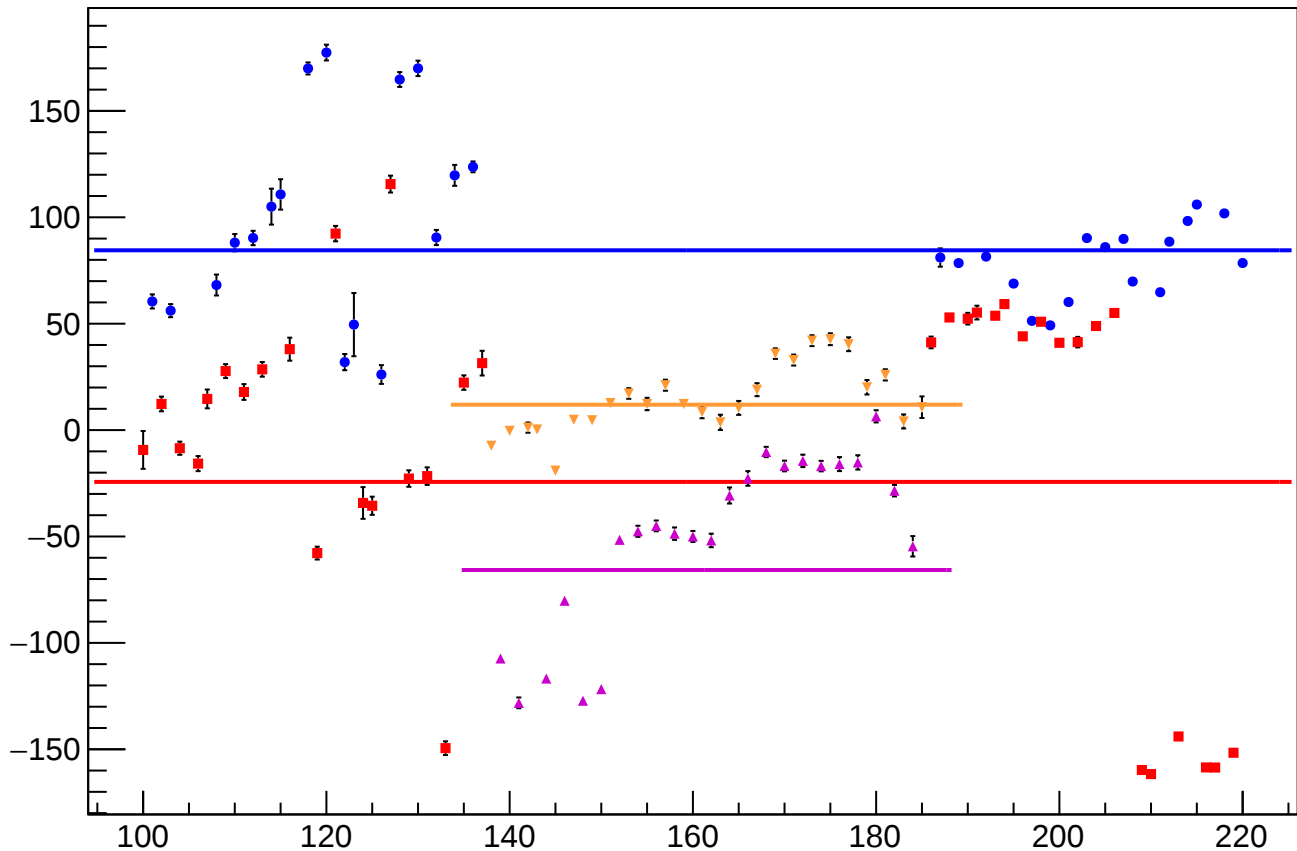
Right: 611.187 $\pm$ 0.070 χ^2 /NDF: 536674.7/70

In: 690.924 $\pm$ 0.083 χ^2 /NDF:2321463.8/56

Out: 688.803 $\pm$ 0.081 χ^2 /NDF:2639219.3/61

All: 689.837 $\pm$ 0.058 χ^2 /NDF: 4961021.2/118

diff_bpm1i06X_mean vs Slug, Sign Corrected



Right In: 84.495 $\pm$ 0.421 χ^2/NDF : 4813.1/33

Left Out: 11.938 $\pm$ 0.505 χ^2/NDF : 976.6/24

Right Out: -24.348 $\pm$ 0.410 χ^2/NDF : 53060.4/36

Left In: -65.752 $\pm$ 0.518 χ^2/NDF : 7335.8/22

Left: -25.968 $\pm$ 0.362 χ^2/NDF : 19845.5/47

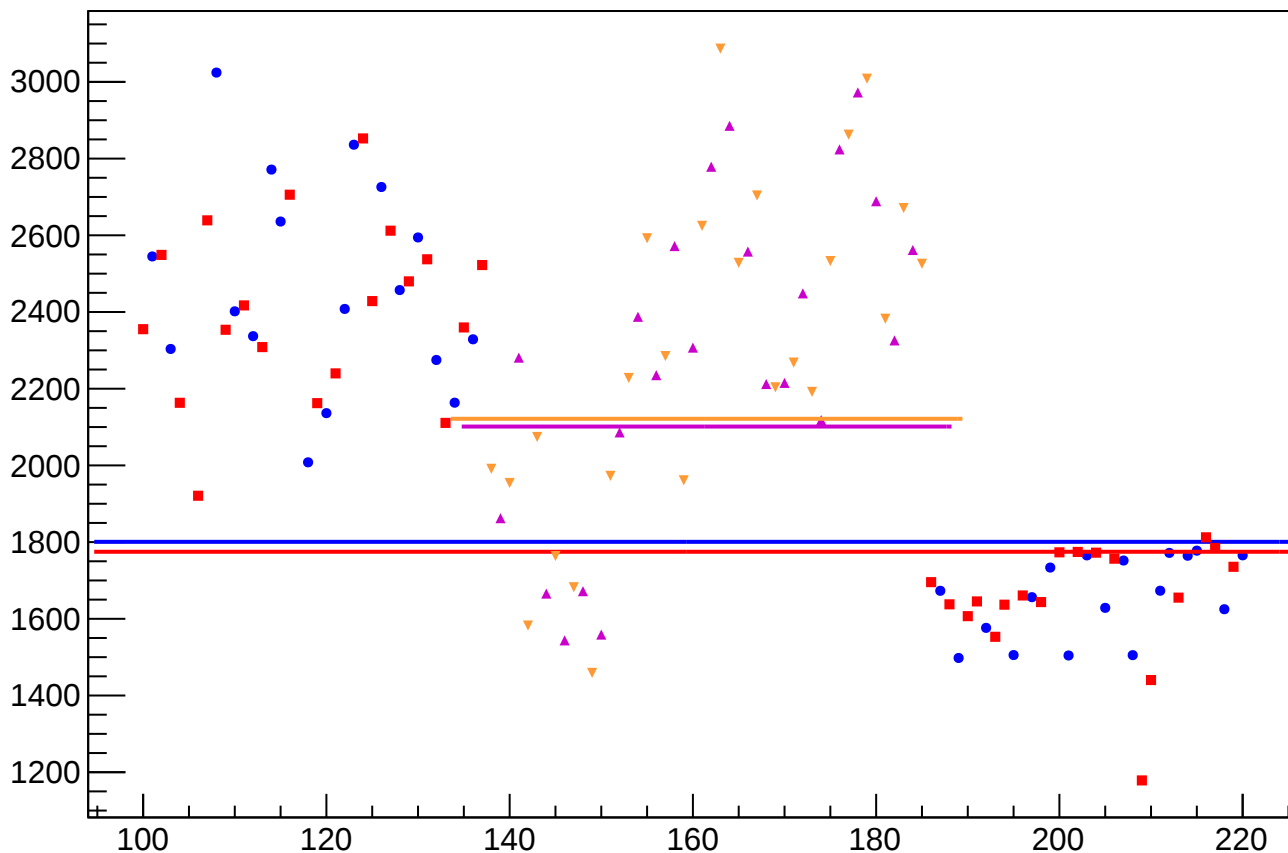
Right: 28.561 $\pm$ 0.294 χ^2/NDF : 92147.1/70

In: 24.605 $\pm$ 0.327 χ^2/NDF : 62806.4/56

Out: -9.947 $\pm$ 0.318 χ^2/NDF : 57147.0/61

All: 6.874 $\pm$ 0.228 χ^2/NDF : 125688.7/118

diff_bpm1i06X_rms vs Slug, Sign Corrected



Right In: 1800.710+/-0.298 χ^2/NDF : 1203157.9/33

Left Out: 2121.567+/-0.357 χ^2/NDF : 1387847.6/24

Right Out: 1774.814+/-0.290 χ^2/NDF : 1478851.4/36

Left In: 2101.325+/-0.366 χ^2/NDF : 1360518.3/22

Left: 2111.691+/-0.256 χ^2/NDF : 2749931.8/47

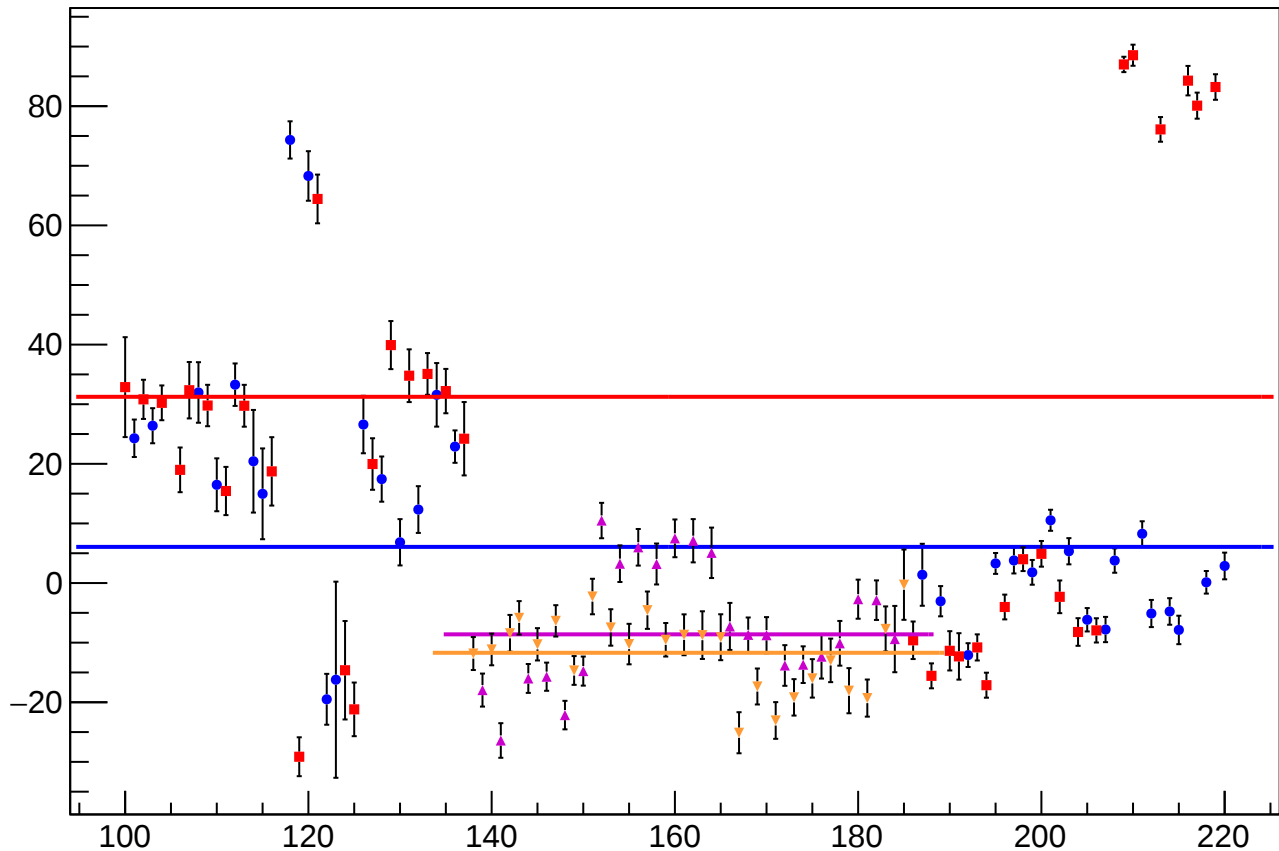
Right: 1787.402+/-0.208 χ^2/NDF : 2685889.7/70

In: 1920.537+/-0.231 χ^2/NDF : 2969263.7/56

Out: 1912.430+/-0.225 χ^2/NDF : 3434703.1/61

All: 1916.377+/-0.161 χ^2/NDF : 6404598.3/111

diff_bpm1i06Y_mean vs Slug, Sign Corrected



Right In: 6.066 ± 0.457 χ^2/NDF : 1293.5/33

Left Out: -11.700 ± 0.625 χ^2/NDF : 85.0/24

Right Out: 31.244 ± 0.443 χ^2/NDF : 8854.8/36

Left In: -8.606 ± 0.642 χ^2/NDF : 264.2/22

Left: -10.193 ± 0.448 χ^2/NDF : 361.1/47

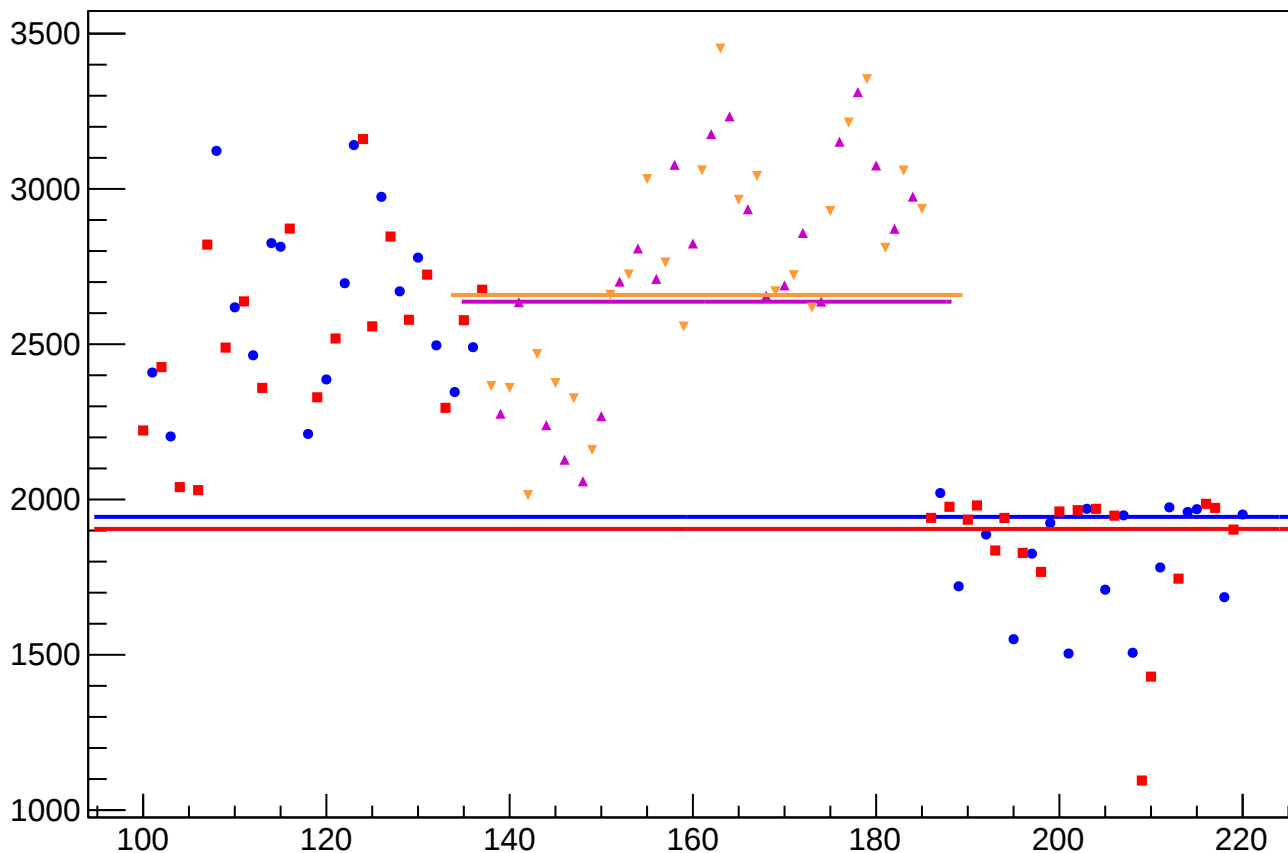
Right: 19.045 ± 0.318 χ^2/NDF : 11711.2/70

In: 1.127 ± 0.372 χ^2/NDF : 1904.3/56

Out: 16.884 ± 0.362 χ^2/NDF : 12077.7/61

All: 9.236 ± 0.259 χ^2/NDF : 14903.2/118

diff_bpm1i06Y_rms vs Slug, Sign Corrected



Right In: 1944.077 $\pm$ 0.323 χ^2/NDF : 1220683.9/33

Left Out: 2658.486 $\pm$ 0.442 χ^2/NDF : 618133.8/24

Right Out: 1905.259 $\pm$ 0.313 χ^2/NDF : 1828247.8/36

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

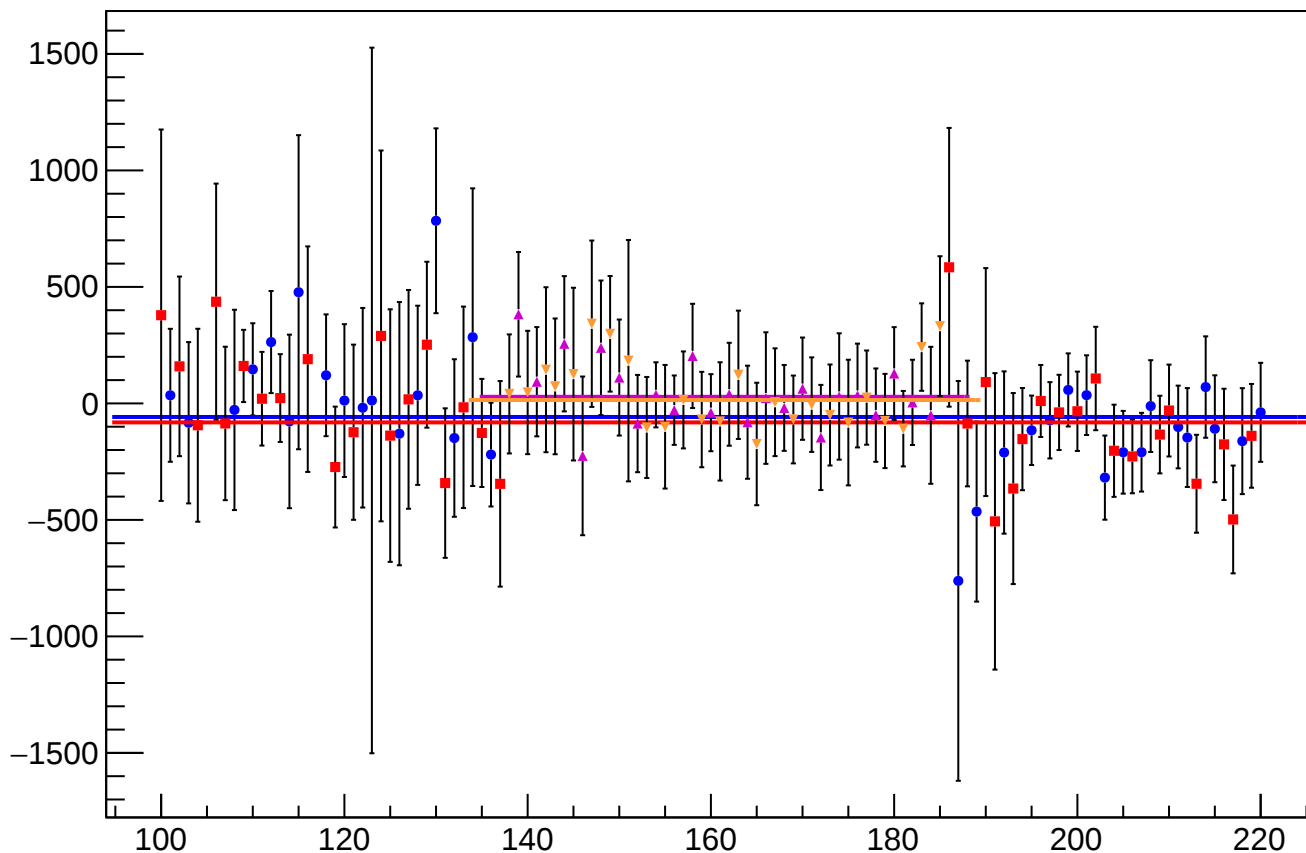
Right: 1924.067 $\pm$ 0.225 χ^2/NDF : 3056361.6/70

In: 2177.286 $\pm$ 0.263 χ^2/NDF : 3419011.8/56

Out: 2157.133 $\pm$ 0.256 χ^2/NDF : 4377119.1/61

All: 2166.914 $\pm$ 0.183 χ^2/NDF : 7799144.7/11

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -58.243 ± 41.121 χ^2/NDF : 17.4/33

Left Out: 14.520 ± 47.528 χ^2/NDF : 7.8/24

Right Out: -81.445 ± 40.982 χ^2/NDF : 17.9/36

Left In: 28.310 ± 44.638 χ^2/NDF : 6.3/22

Left: 21.847 ± 32.538 χ^2/NDF : 14.1/47

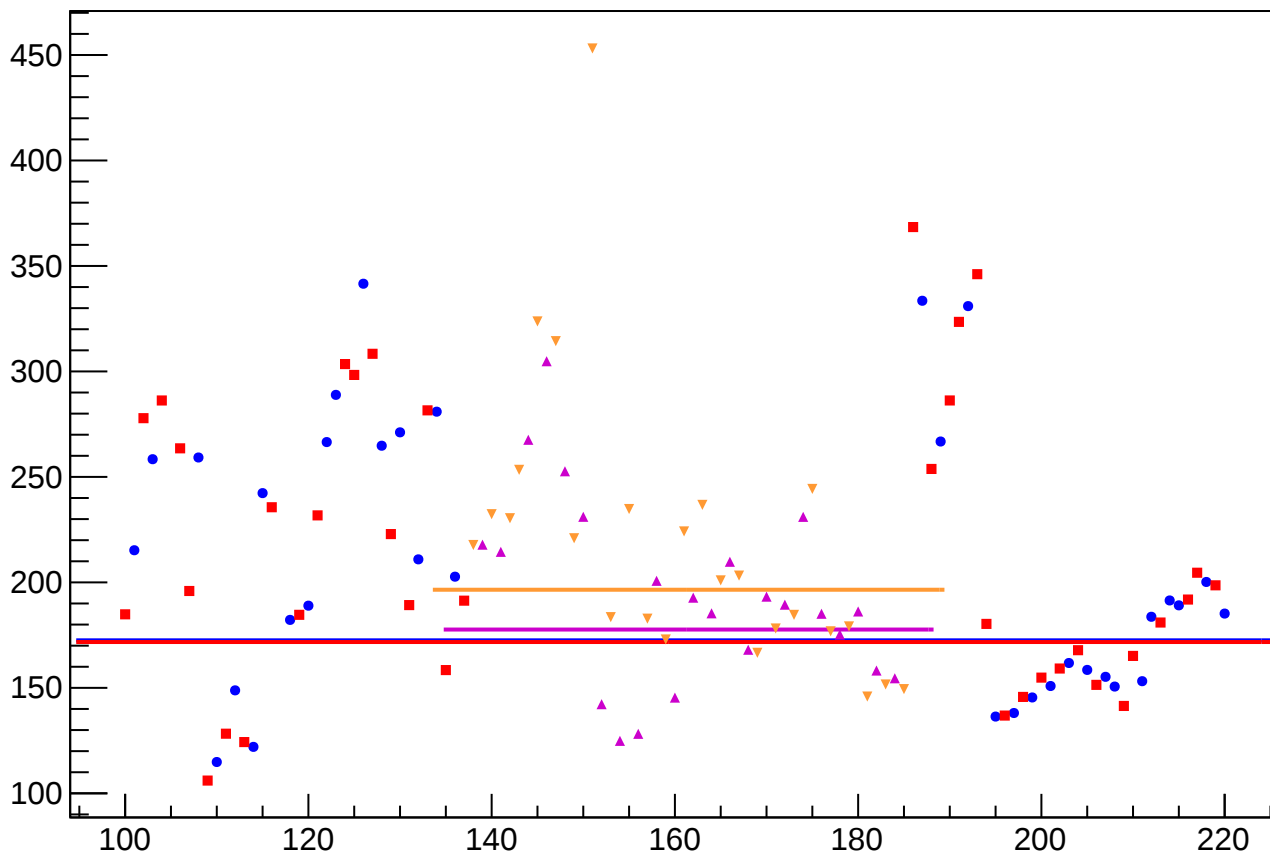
Right: -69.884 ± 29.027 χ^2/NDF : 35.5/70

In: -18.511 ± 30.244 χ^2/NDF : 25.8/56

Out: -40.523 ± 31.037 χ^2/NDF : 28.0/61

All: -29.232 ± 21.661 χ^2/NDF : 54.1/118

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 172.534+/-0.029 χ^2/NDF : 2212485.2/33

Left Out: 196.514+/-0.034 χ^2/NDF : 1789504.4/24

Right Out: 171.729+/-0.029 χ^2/NDF : 2930600.8/36

Left In: 177.643+/-0.032 χ^2/NDF : 1630664.5/22

Left: 186.488+/-0.023 χ^2/NDF : 3587689.7/47

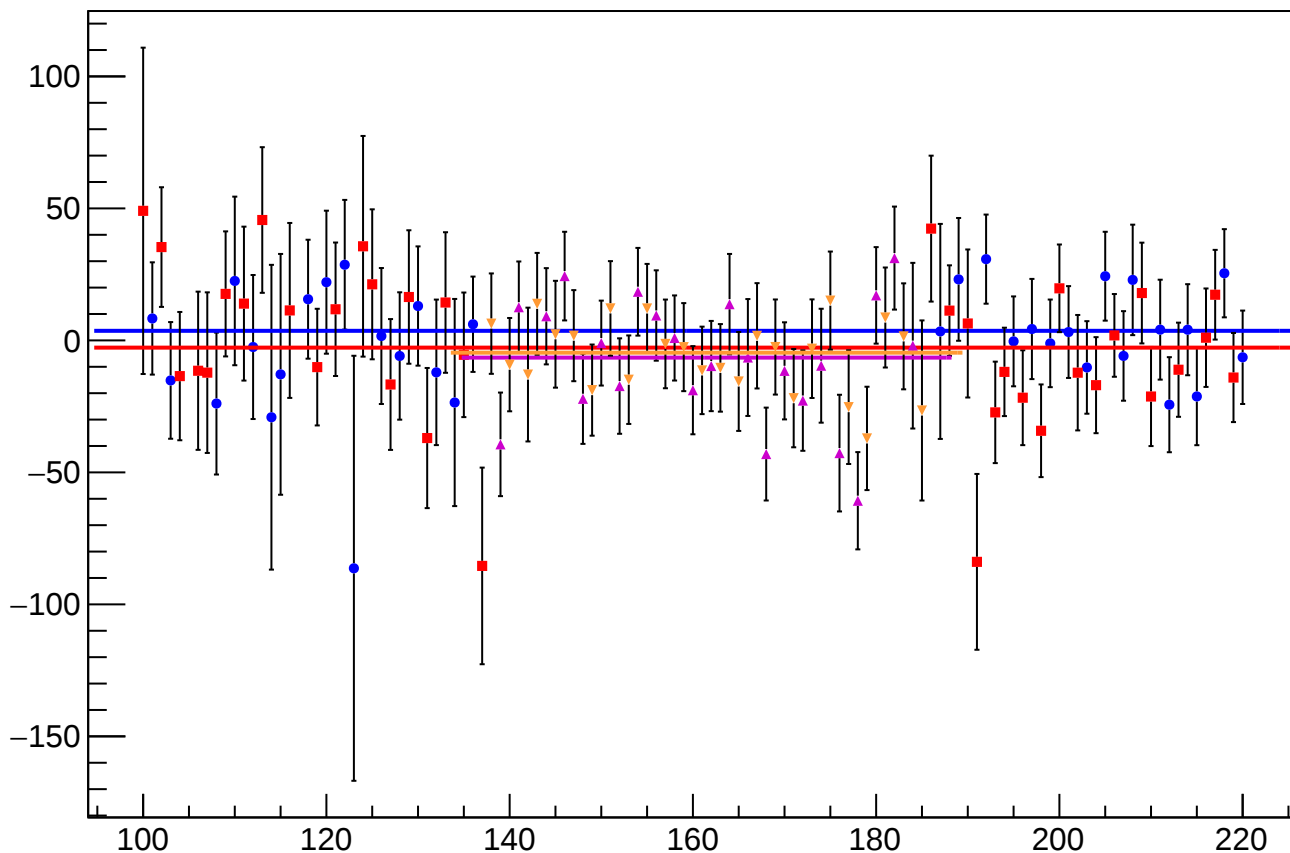
Right: 172.130+/-0.021 χ^2/NDF : 5143470.2/70

In: 174.879+/-0.021 χ^2/NDF : 3857324.6/56

Out: 182.298+/-0.022 χ^2/NDF : 5032054.6/61

All: 178.493+/-0.015 χ^2/NDF : 8947997.1/118

asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 3.626 ± 3.658 $\chi^2/\text{NDF}: 19.9/33$

Left Out: -4.646 ± 3.728 $\chi^2/\text{NDF}: 12.1/24$

Right Out: -2.740 ± 3.624 $\chi^2/\text{NDF}: 40.7/36$

Left In: -6.526 ± 3.828 $\chi^2/\text{NDF}: 36.4/22$

Left: -5.561 ± 2.670 $\chi^2/\text{NDF}: 48.6/47$

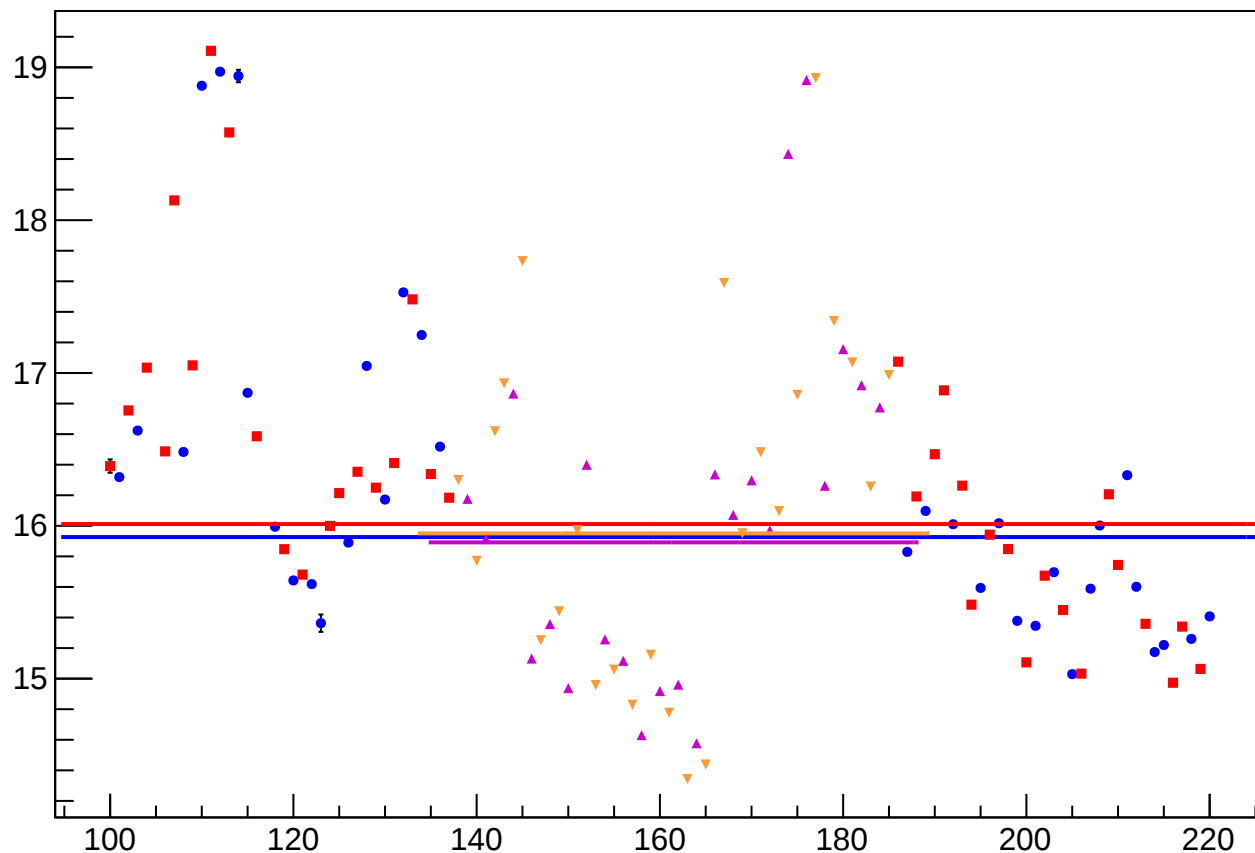
Right: 0.413 ± 2.575 $\chi^2/\text{NDF}: 62.1/70$

In: -1.221 ± 2.645 $\chi^2/\text{NDF}: 59.9/56$

Out: -3.666 ± 2.599 $\chi^2/\text{NDF}: 52.9/61$

All: -2.465 ± 1.854 $\chi^2/\text{NDF}: 113.3/118$

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 15.927 $\pm$ 0.003 χ^2 /NDF: 93673.3/33

Left Out: 15.951 $\pm$ 0.003 χ^2 /NDF:173458.5/24

Right Out: 16.011 $\pm$ 0.003 χ^2 /NDF: 110997.1/36

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

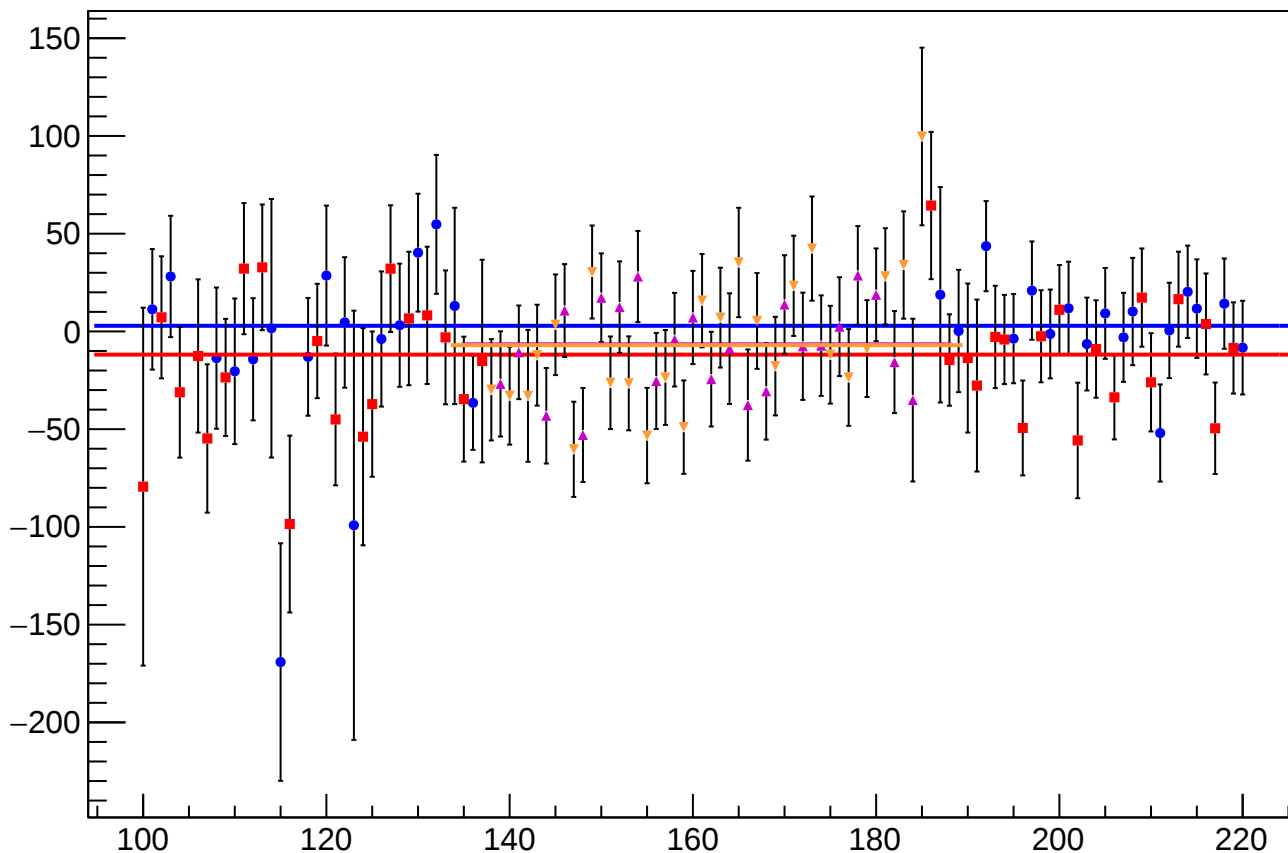
Right: 15.969 $\pm$ 0.002 χ^2 /NDF: 205215.3/70

In: 15.910 $\pm$ 0.002 χ^2 /NDF:240852.1/56

Out: 15.982 $\pm$ 0.002 χ^2 /NDF:284728.8/61

All: 15.947 $\pm$ 0.001 χ^2 /NDF: 526335.1/118

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 2.879 ± 4.913 $\chi^2/\text{NDF}: 28.1/33$

Left Out: -7.017 ± 5.121 $\chi^2/\text{NDF}: 37.4/24$

Right Out: -11.860 ± 4.867 $\chi^2/\text{NDF}: 32.4/36$

Left In: -6.611 ± 5.251 $\chi^2/\text{NDF}: 19.1/22$

Left: -6.820 ± 3.666 $\chi^2/\text{NDF}: 56.6/47$

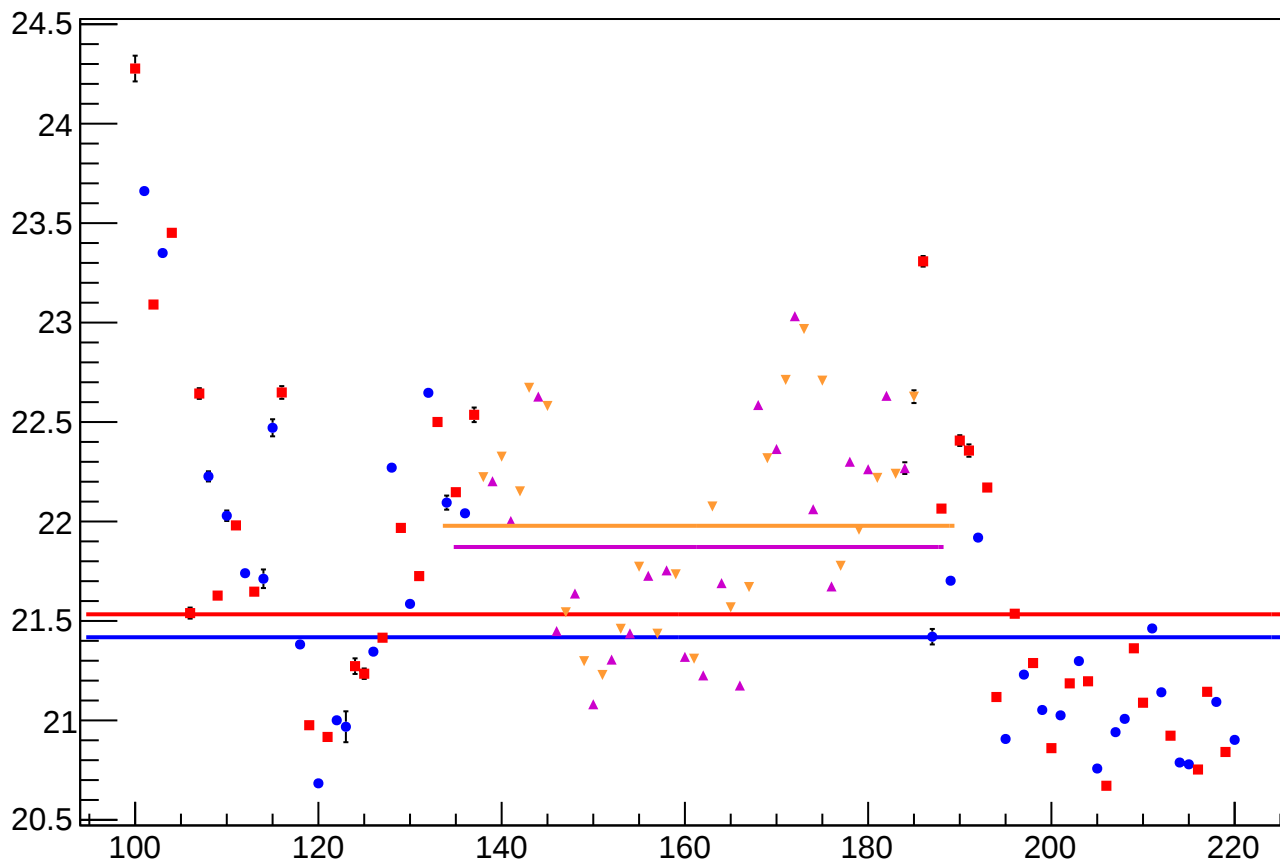
Right: -4.561 ± 3.458 $\chi^2/\text{NDF}: 65.0/70$

In: -1.551 ± 3.588 $\chi^2/\text{NDF}: 49.0/56$

Out: -9.562 ± 3.528 $\chi^2/\text{NDF}: 70.3/61$

All: -5.624 ± 2.515 $\chi^2/\text{NDF}: 121.8/118$

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 21.418 ± 0.003 $\chi^2/\text{NDF}: 38118.0/33$

Left Out: 21.978 ± 0.004 $\chi^2/\text{NDF}: 19430.2/24$

Right Out: 21.533 ± 0.003 $\chi^2/\text{NDF}: 42720.7/36$

Left In: 21.872 ± 0.004 $\chi^2/\text{NDF}: 20524.9/22$

Left: 21.926 ± 0.003 $\chi^2/\text{NDF}: 40377.5/47$

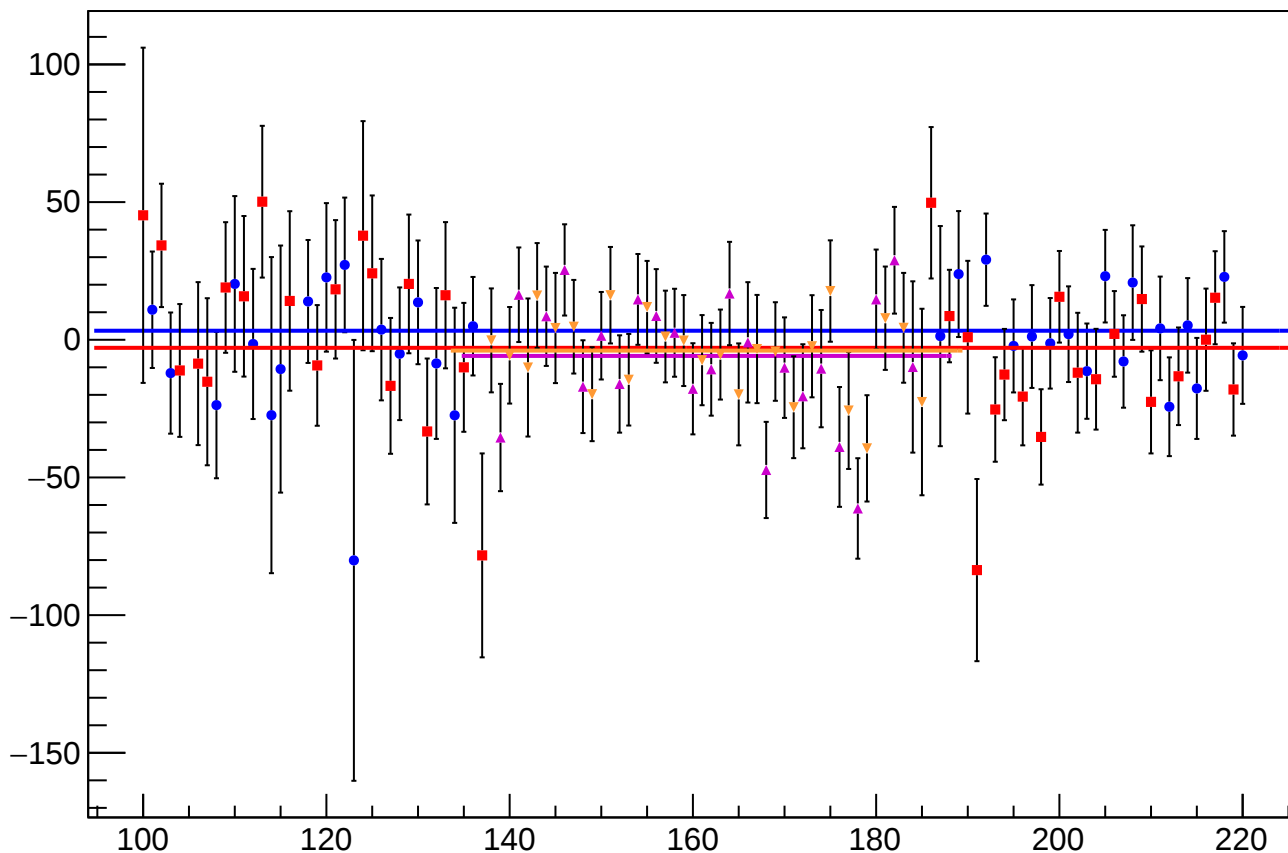
Right: 21.476 ± 0.002 $\chi^2/\text{NDF}: 81394.9/70$

In: 21.630 ± 0.003 $\chi^2/\text{NDF}: 66603.8/56$

Out: 21.745 ± 0.002 $\chi^2/\text{NDF}: 70086.1/61$

All: 21.688 ± 0.002 $\chi^2/\text{NDF}: 137729.0/118$

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 3.286 ± 3.633 $\chi^2/\text{NDF}: 18.3/33$

Left Out: -3.927 ± 3.688 $\chi^2/\text{NDF}: 14.0/24$

Right Out: -2.922 ± 3.600 $\chi^2/\text{NDF}: 41.4/36$

Left In: -5.861 ± 3.787 $\chi^2/\text{NDF}: 36.2/22$

Left: -4.869 ± 2.642 $\chi^2/\text{NDF}: 50.3/47$

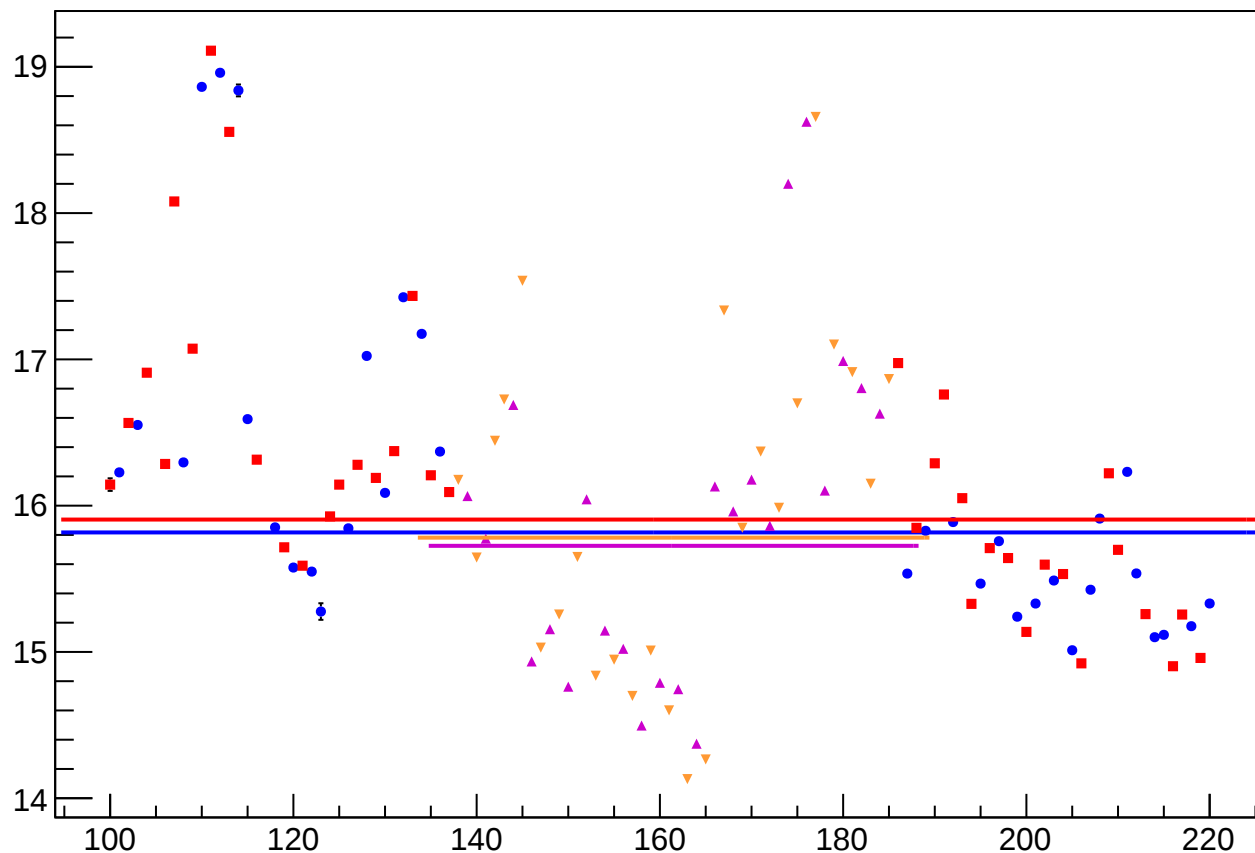
Right: 0.154 ± 2.557 $\chi^2/\text{NDF}: 61.1/70$

In: -1.098 ± 2.622 $\chi^2/\text{NDF}: 57.5/56$

Out: -3.413 ± 2.576 $\chi^2/\text{NDF}: 55.4/61$

All: -2.276 ± 1.838 $\chi^2/\text{NDF}: 113.3/118$

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 15.817 $\pm$ 0.003 χ^2 /NDF: 95410.1/33

Left Out: 15.781 $\pm$ 0.003 χ^2 /NDF:172894.3/24

Right Out: 15.905 $\pm$ 0.003 χ^2 /NDF: 112742.4/36

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

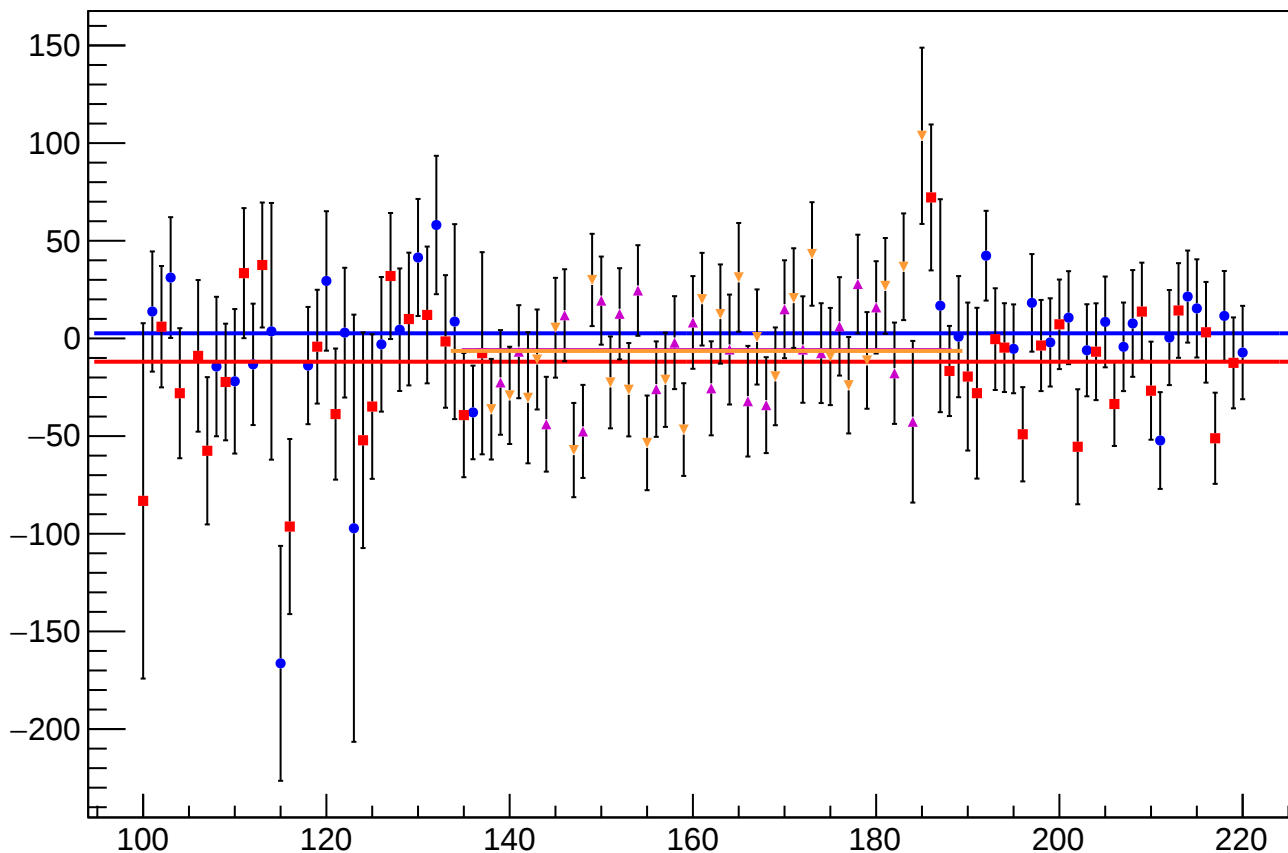
Right: 15.861 $\pm$ 0.002 χ^2 /NDF: 208745.0/70

In: 15.773 $\pm$ 0.002 χ^2 /NDF:241849.4/56

Out: 15.845 $\pm$ 0.002 χ^2 /NDF:286788.3/61

All: 15.809 $\pm$ 0.001 χ^2 /NDF: 529395.7/118

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 2.627 ± 4.893 $\chi^2/\text{NDF}: 28.7/33$

Left Out: -6.404 ± 5.091 $\chi^2/\text{NDF}: 37.4/24$

Right Out: -11.925 ± 4.844 $\chi^2/\text{NDF}: 33.5/36$

Left In: -5.978 ± 5.222 $\chi^2/\text{NDF}: 18.5/22$

Left: -6.196 ± 3.646 $\chi^2/\text{NDF}: 55.9/47$

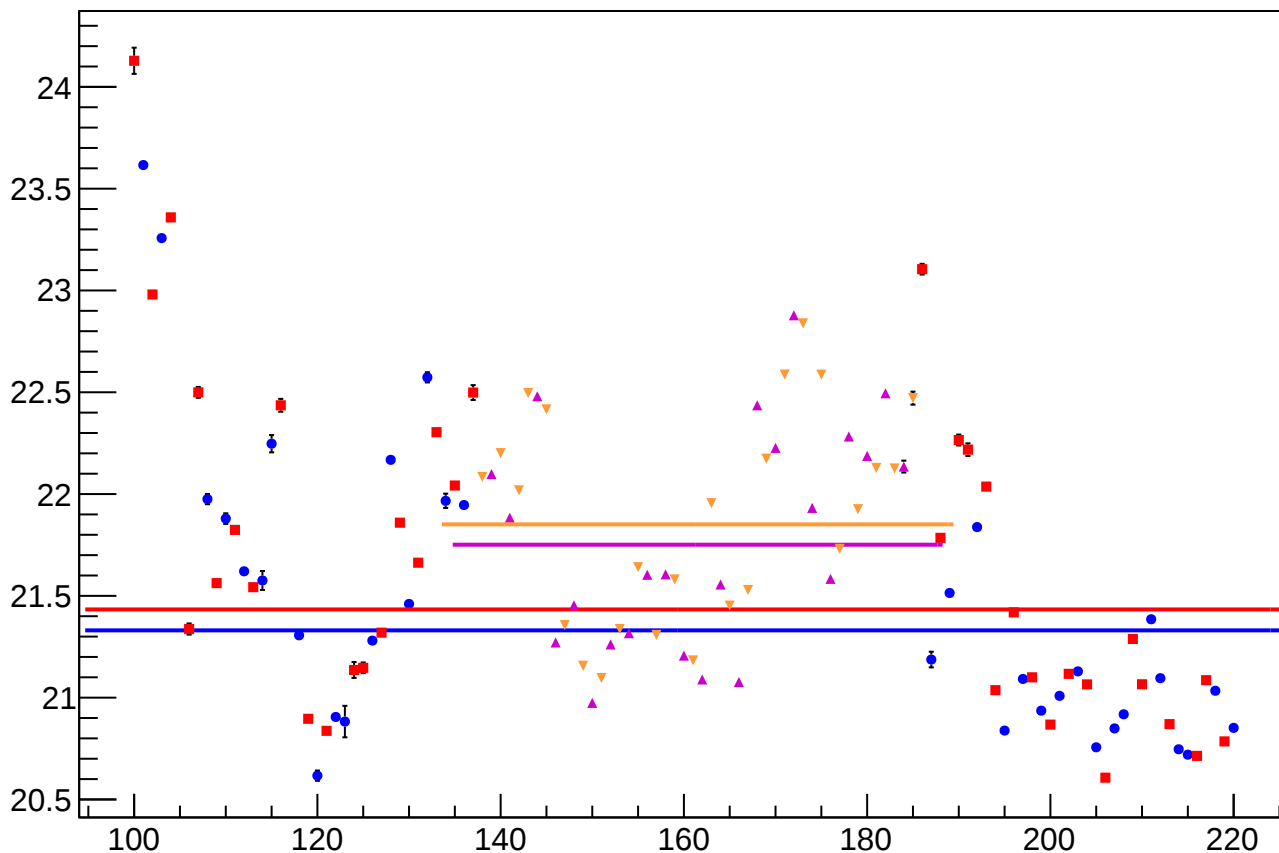
Right: -4.723 ± 3.443 $\chi^2/\text{NDF}: 66.7/70$

In: -1.396 ± 3.571 $\chi^2/\text{NDF}: 48.7/56$

Out: -9.302 ± 3.509 $\chi^2/\text{NDF}: 71.5/61$

All: -5.417 ± 2.503 $\chi^2/\text{NDF}: 122.7/118$

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 21.331 $\pm$ 0.003 χ^2 /NDF: 36914.3/33

Left Out: 21.851 $\pm$ 0.004 χ^2 /NDF:19631.8/24

Right Out: 21.433 $\pm$ 0.003 χ^2 /NDF: 39313.4/36

Left In: 21.751 $\pm$ 0.004 χ^2 /NDF:20516.3/22

Left: 21.802 $\pm$ 0.003 χ^2 /NDF: 40523.6/47

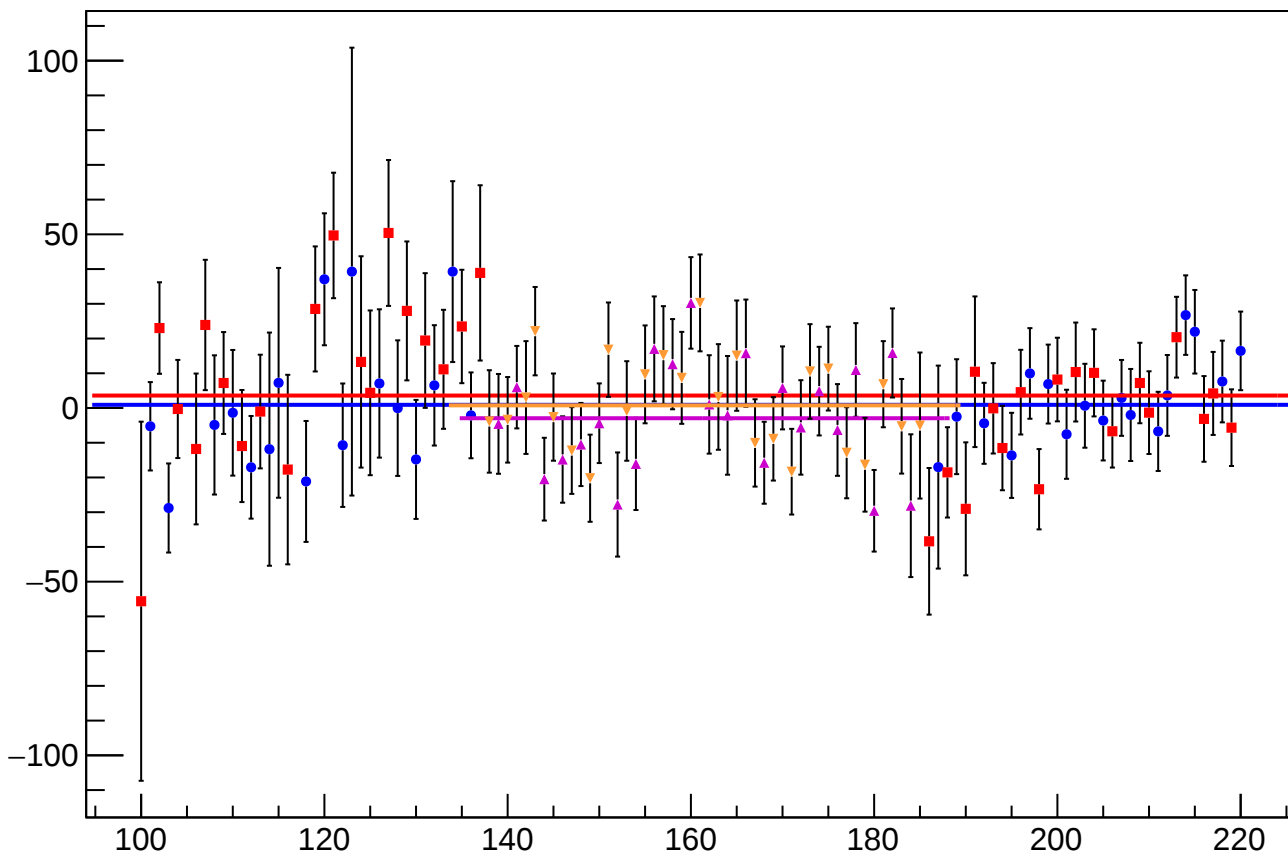
Right: 21.382 $\pm$ 0.002 χ^2 /NDF: 76673.7/70

In: 21.527 $\pm$ 0.003 χ^2 /NDF:64340.3/56

Out: 21.632 $\pm$ 0.002 χ^2 /NDF:66013.3/61

All: 21.580 $\pm$ 0.002 χ^2 /NDF: 131227.3/118

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 0.915 ± 2.462 $\chi^2/\text{NDF}: 31.0/33$

Left Out: 0.759 ± 2.698 $\chi^2/\text{NDF}: 23.8/24$

Right Out: 3.586 ± 2.456 $\chi^2/\text{NDF}: 48.0/36$

Left In: -2.944 ± 2.757 $\chi^2/\text{NDF}: 30.9/22$

Left: -1.053 ± 1.929 $\chi^2/\text{NDF}: 55.7/47$

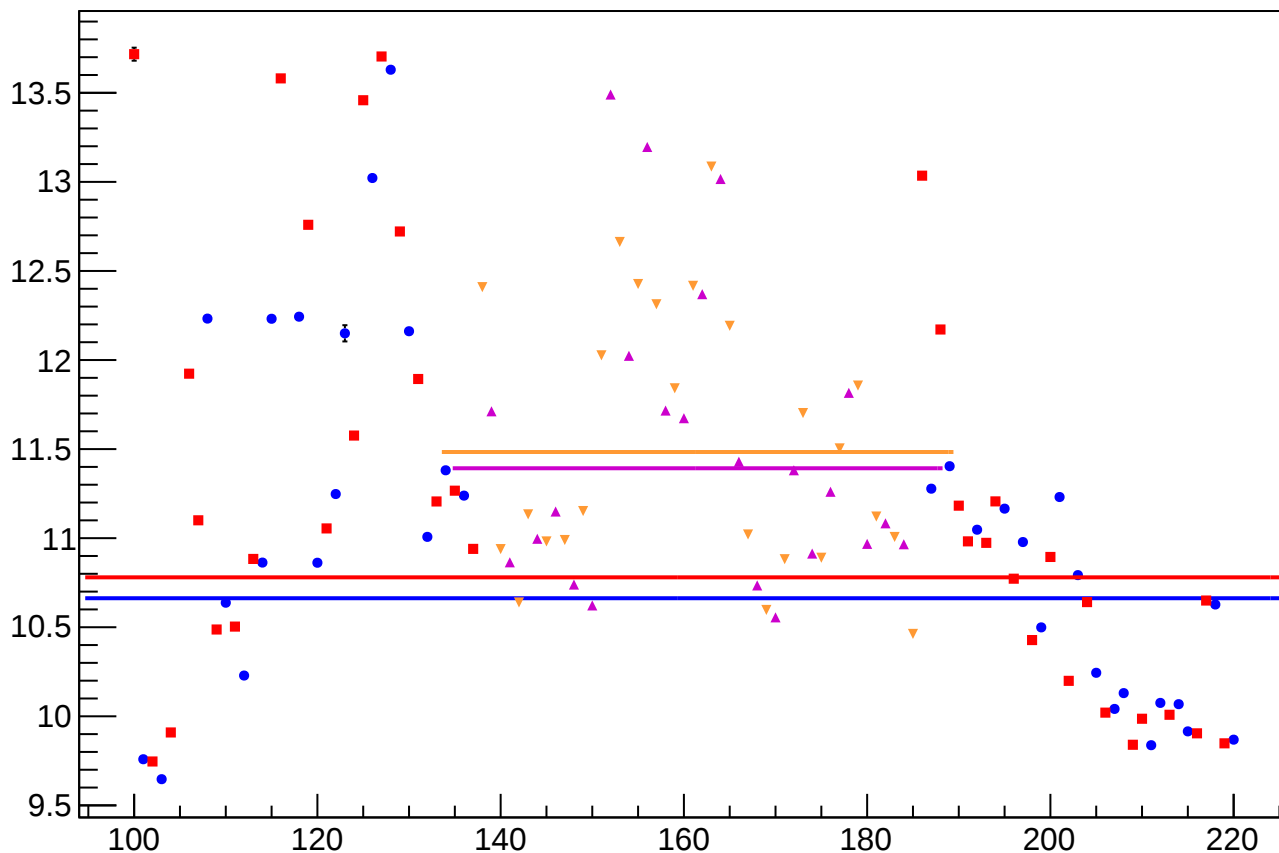
Right: 2.254 ± 1.739 $\chi^2/\text{NDF}: 79.5/70$

In: -0.797 ± 1.837 $\chi^2/\text{NDF}: 63.0/56$

Out: 2.305 ± 1.816 $\chi^2/\text{NDF}: 72.4/61$

All: 0.771 ± 1.291 $\chi^2/\text{NDF}: 136.8/118$

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 10.663 $\pm$ 0.002 χ^2 /NDF: 220825.6/33

Left Out: 11.484 $\pm$ 0.002 χ^2 /NDF:129805.4/24

Right Out: 10.780 $\pm$ 0.002 χ^2 /NDF: 295131.0/36

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

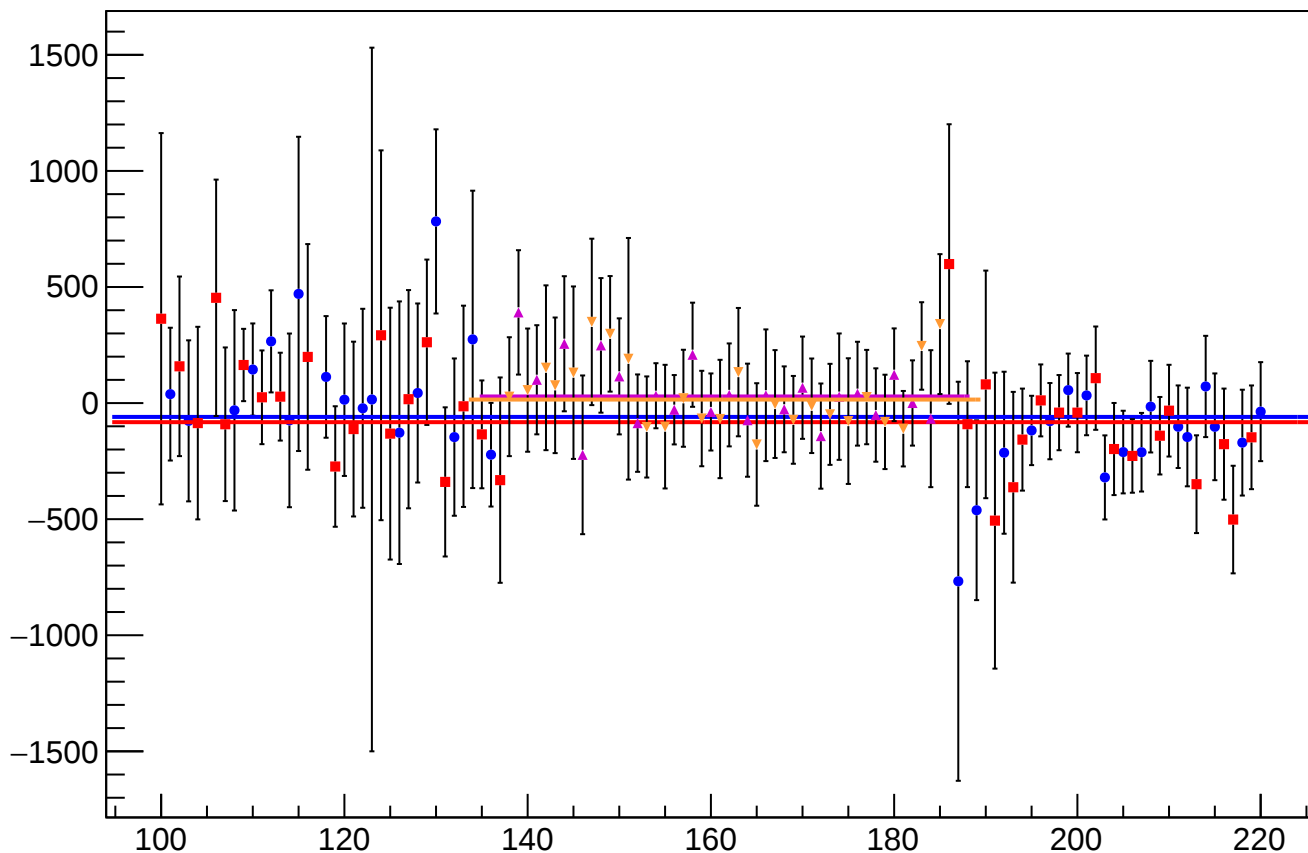
Right: 10.722 $\pm$ 0.001 χ^2 /NDF: 518230.1/70

In: 10.986 $\pm$ 0.001 χ^2 /NDF:449214.6/56

Out: 11.099 $\pm$ 0.001 χ^2 /NDF:499312.3/61

All: 11.043 $\pm$ 0.001 χ^2 /NDF: 952317.4/118

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs Slug, Sign Corrected



Right In: -59.560 ± 41.221 χ^2/NDF : 17.4/33

Left Out: 15.130 ± 47.705 χ^2/NDF : 8.0/24

Right Out: -82.211 ± 41.087 χ^2/NDF : 18.2/36

Left In: 28.500 ± 44.797 χ^2/NDF : 6.4/22

Left: 22.235 ± 32.656 χ^2/NDF : 14.4/47

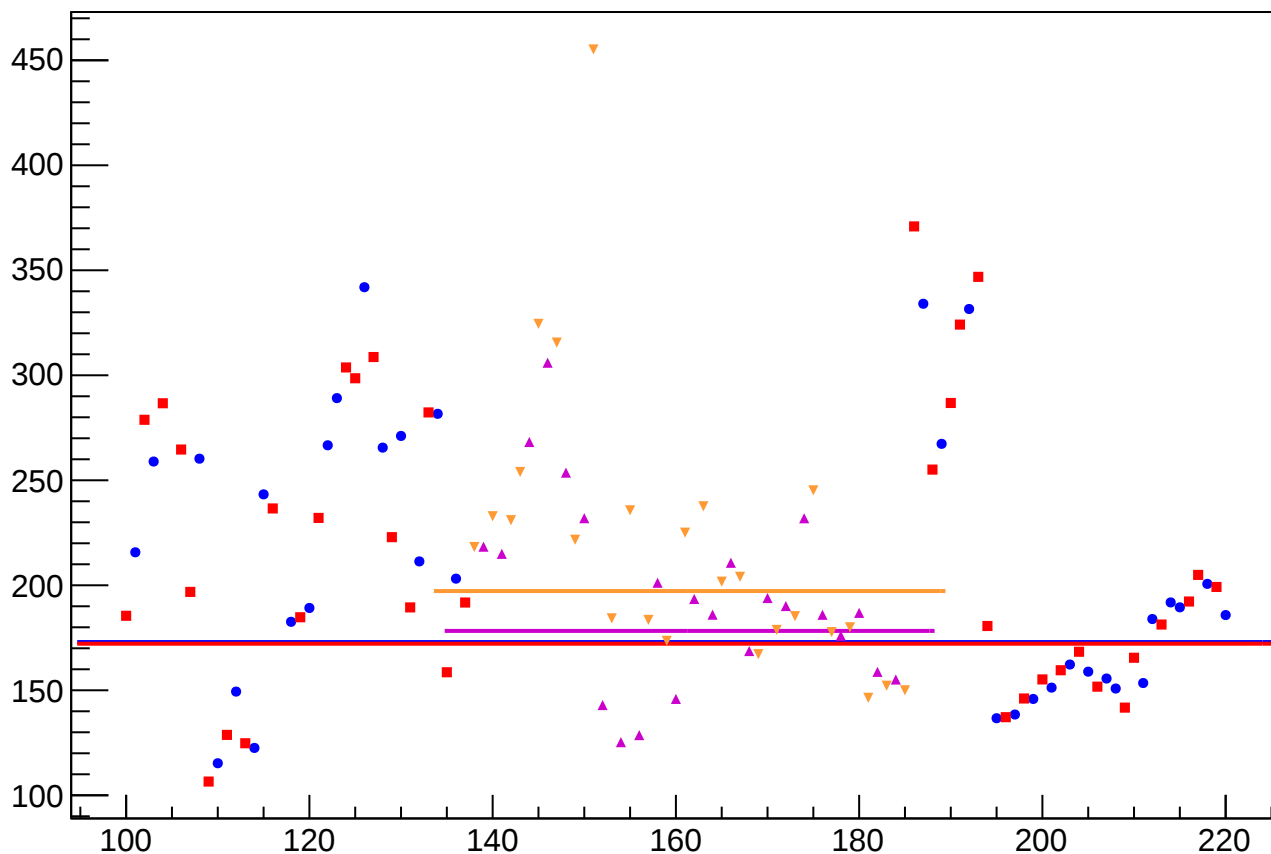
Right: -70.922 ± 29.100 χ^2/NDF : 35.7/70

In: -19.184 ± 30.333 χ^2/NDF : 25.9/56

Out: -40.755 ± 31.132 χ^2/NDF : 28.6/61

All: -29.689 ± 21.726 χ^2/NDF : 54.7/118

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs Slug, Sign Corrected



Right In: 172.964 $\pm$ 0.029 χ^2 /NDF: 2207619.4/33

Left Out: 197.249 $\pm$ 0.034 χ^2 /NDF: 1786808.1/24

Right Out: 172.182 $\pm$ 0.029 χ^2 /NDF: 2926822.5/36

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

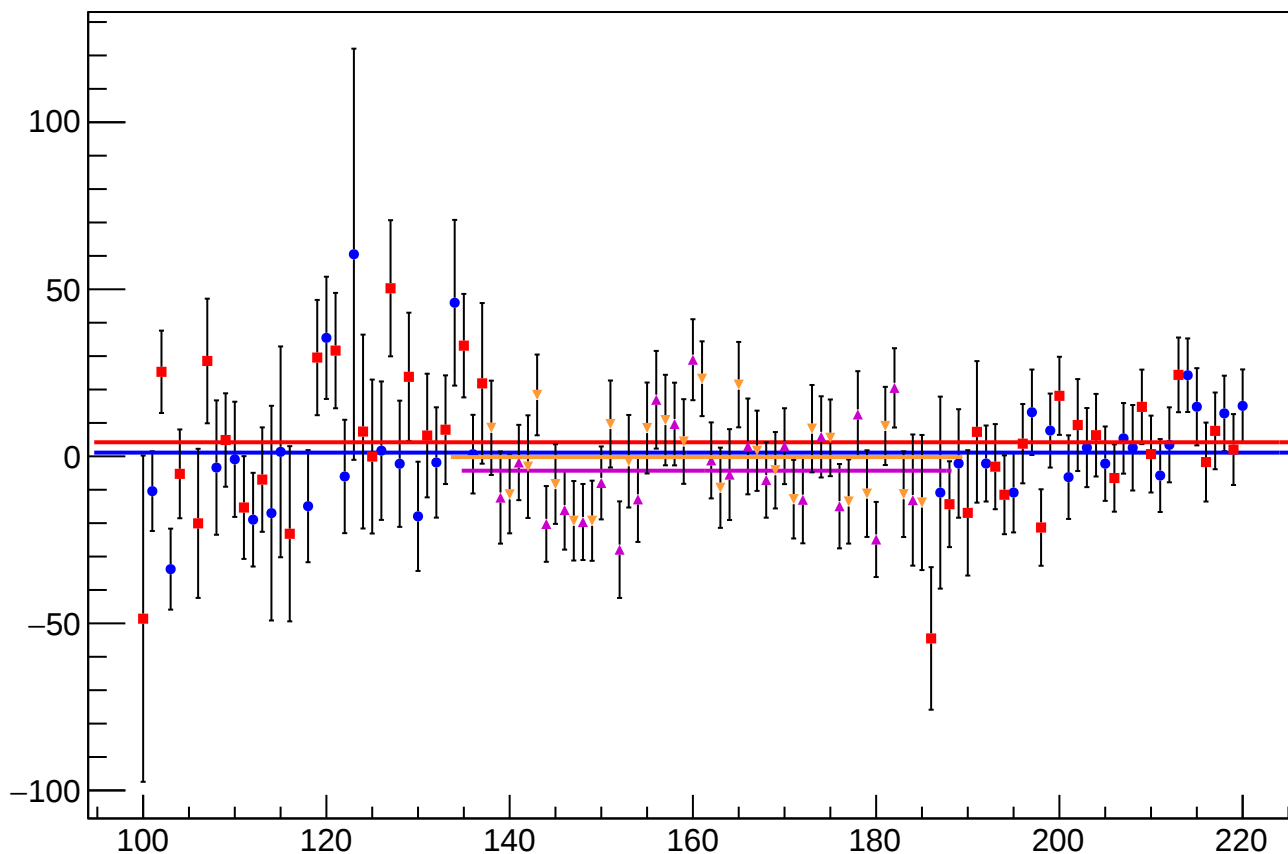
Right: 172.572 $\pm$ 0.021 χ^2 /NDF: 5134803.2/70

In: 175.400 $\pm$ 0.021 χ^2 /NDF: 3851768.6/56

Out: 182.858 $\pm$ 0.022 χ^2 /NDF: 5030674.8/61

All: 179.032 $\pm$ 0.015 χ^2 /NDF: 8941318.8/118

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs Slug, Sign Corrected



Right In: 1.116 ± 2.374 $\chi^2/\text{NDF}: 34.1/33$

Left Out: -0.211 ± 2.523 $\chi^2/\text{NDF}: 24.5/24$

Right Out: 4.209 ± 2.373 $\chi^2/\text{NDF}: 51.1/36$

Left In: -4.298 ± 2.589 $\chi^2/\text{NDF}: 31.6/22$

Left: -2.202 ± 1.807 $\chi^2/\text{NDF}: 57.4/47$

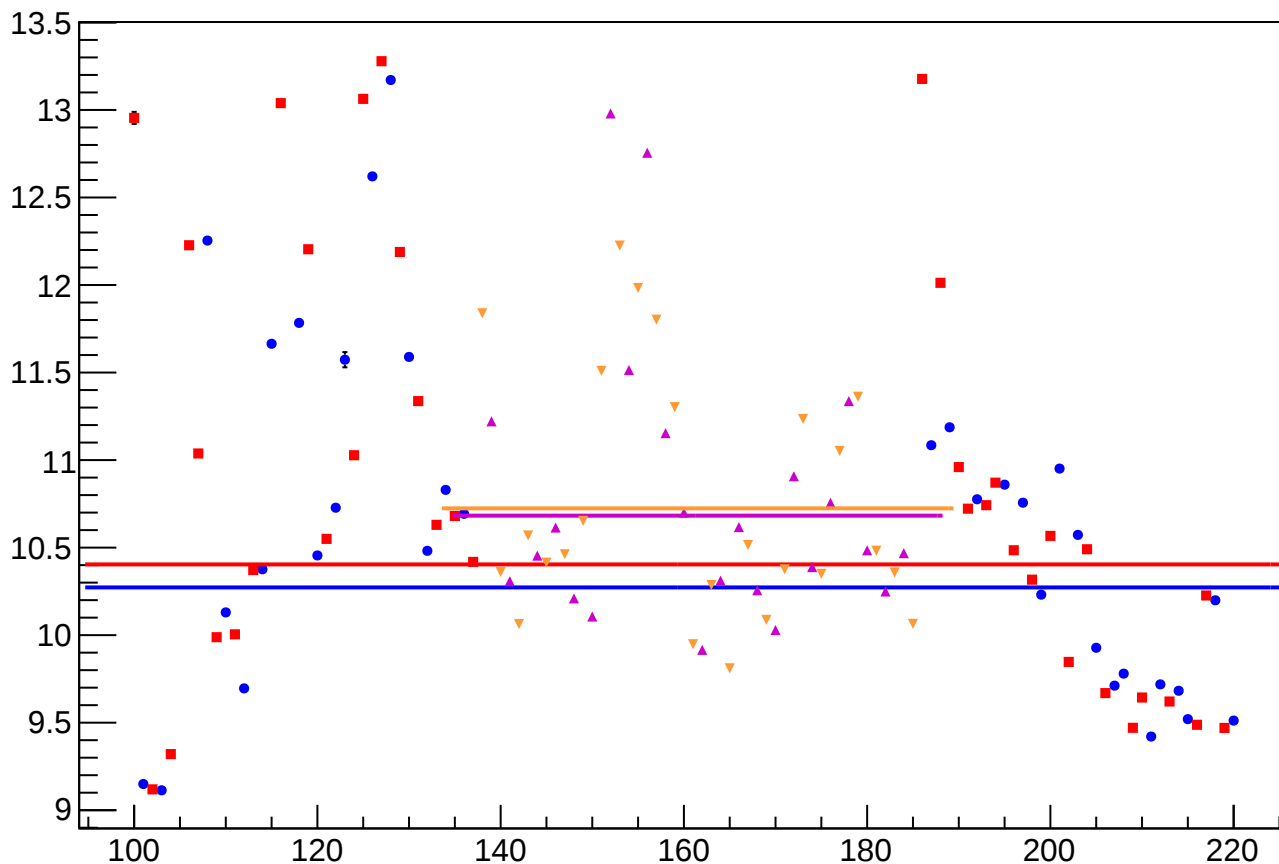
Right: 2.663 ± 1.679 $\chi^2/\text{NDF}: 86.0/70$

In: -1.357 ± 1.750 $\chi^2/\text{NDF}: 68.0/56$

Out: 2.134 ± 1.729 $\chi^2/\text{NDF}: 77.2/61$

All: 0.410 ± 1.230 $\chi^2/\text{NDF}: 147.3/118$

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs Slug, Sign Corrected



Right In: 10.273 $\pm$ 0.002 χ^2 /NDF: 249610.1/33

Left Out: 10.724 $\pm$ 0.002 χ^2 /NDF:132558.9/24

Right Out: 10.404 $\pm$ 0.002 χ^2 /NDF: 339194.2/36

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

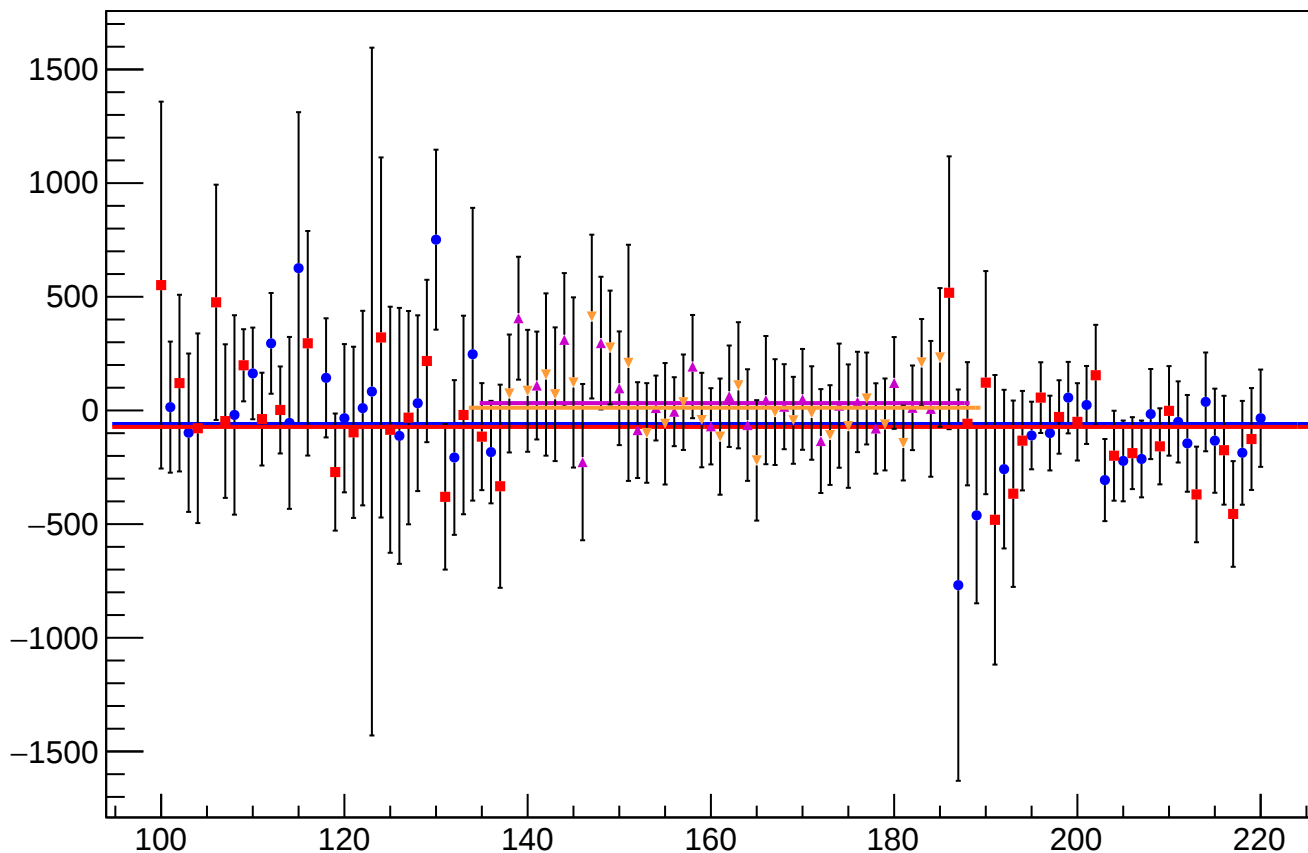
Right: 10.338 $\pm$ 0.001 χ^2 /NDF: 591870.2/70

In: 10.460 $\pm$ 0.001 χ^2 /NDF:424692.5/56

Out: 10.554 $\pm$ 0.001 χ^2 /NDF:488836.0/61

All: 10.508 $\pm$ 0.001 χ^2 /NDF: 916473.5/118

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -59.641 ± 41.282 $\chi^2/\text{NDF}: 17.9/33$

Left Out: 11.891 ± 48.022 $\chi^2/\text{NDF}: 7.6/24$

Right Out: -72.482 ± 41.207 $\chi^2/\text{NDF}: 18.7/36$

Left In: 32.413 ± 45.155 $\chi^2/\text{NDF}: 6.9/22$

Left: 22.783 ± 32.896 $\chi^2/\text{NDF}: 14.6/47$

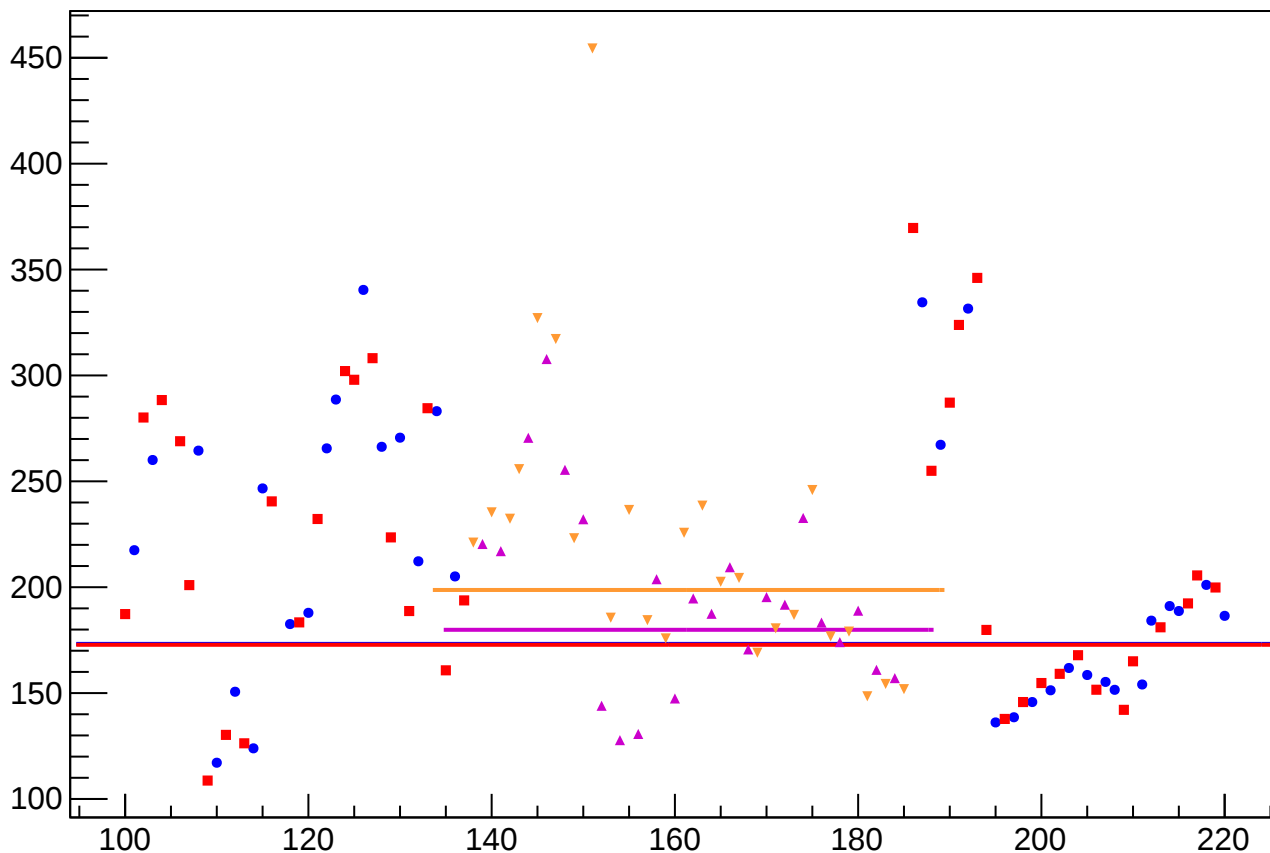
Right: -66.073 ± 29.164 $\chi^2/\text{NDF}: 36.6/70$

In: -17.730 ± 30.468 $\chi^2/\text{NDF}: 27.0/56$

Out: -36.702 ± 31.272 $\chi^2/\text{NDF}: 28.1/61$

All: -26.969 ± 21.823 $\chi^2/\text{NDF}: 55.3/118$

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 173.232 $\pm$ 0.029 χ^2 /NDF: 2203391.4/33

Left Out: 198.695 $\pm$ 0.034 χ^2 /NDF:1759311.9/24

Right Out: 172.810 $\pm$ 0.029 χ^2 /NDF: 2884644.5/36

Left In: 179.886 $\pm$ 0.032 χ^2 /NDF:1580636.4/22

Left: 188.712 $\pm$ 0.023 χ^2 /NDF: 3502782.6/47

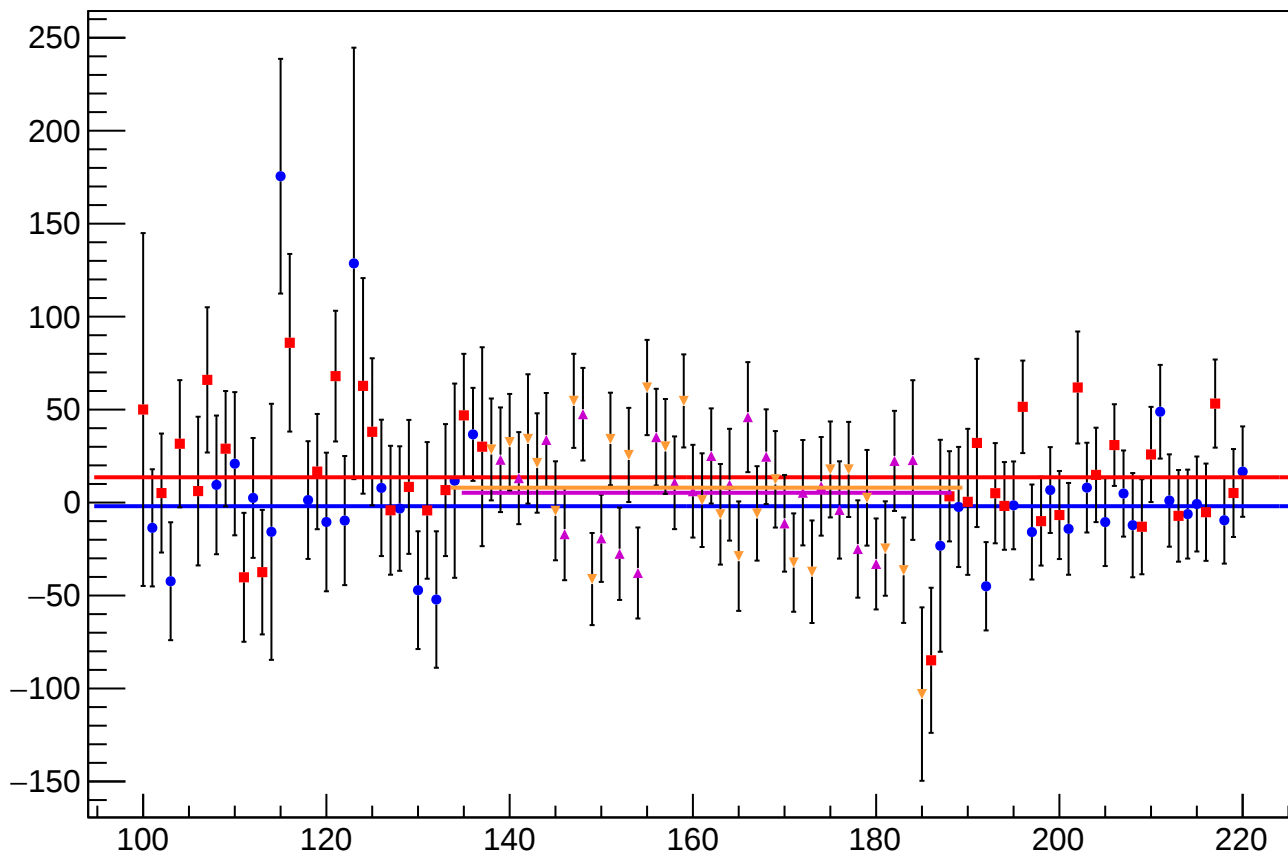
Right: 173.021 $\pm$ 0.021 χ^2 /NDF: 5088140.6/70

In: 176.262 $\pm$ 0.022 χ^2 /NDF:3807685.2/56

Out: 183.787 $\pm$ 0.022 χ^2 /NDF:4978614.1/61

All: 179.927 $\pm$ 0.015 χ^2 /NDF: 8845715.5/118

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -1.958 ± 5.044 χ^2/NDF : 27.4/33

Left Out: 8.004 ± 5.334 χ^2/NDF : 37.4/24

Right Out: 13.601 ± 5.007 χ^2/NDF : 34.8/36

Left In: 5.261 ± 5.465 χ^2/NDF : 20.8/22

Left: 6.665 ± 3.817 χ^2/NDF : 58.3/47

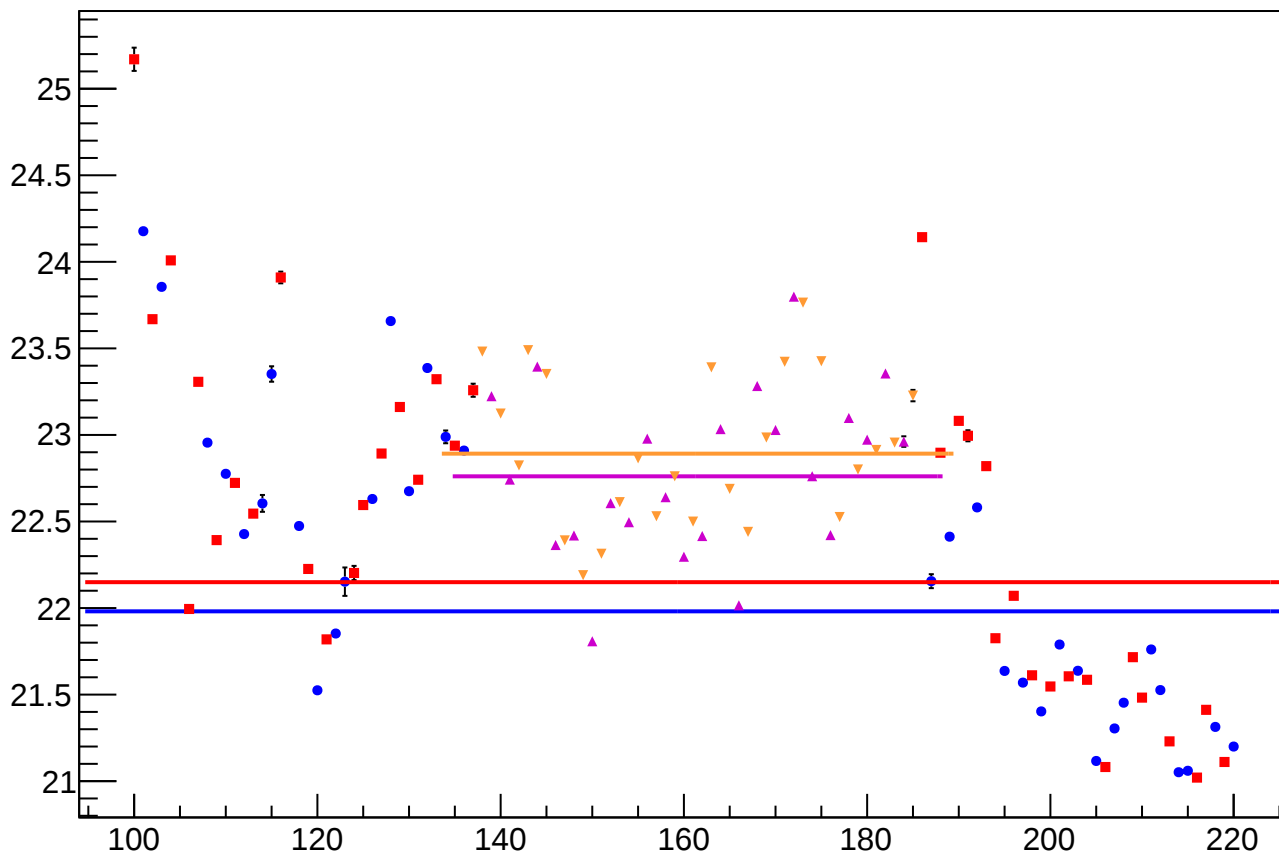
Right: 5.878 ± 3.553 χ^2/NDF : 67.0/70

In: 1.363 ± 3.706 χ^2/NDF : 49.1/56

Out: 10.979 ± 3.651 χ^2/NDF : 72.8/61

All: 6.243 ± 2.601 χ^2/NDF : 125.3/118

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 21.981 $\pm$ 0.004 χ^2/NDF : 53879.3/33

Left Out: 22.892 $\pm$ 0.004 χ^2/NDF : 12995.5/24

Right Out: 22.149 $\pm$ 0.004 χ^2/NDF : 59011.5/36

Left In: 22.761 $\pm$ 0.004 χ^2/NDF : 14550.0/22

Left: 22.828 $\pm$ 0.003 χ^2/NDF : 28133.9/47

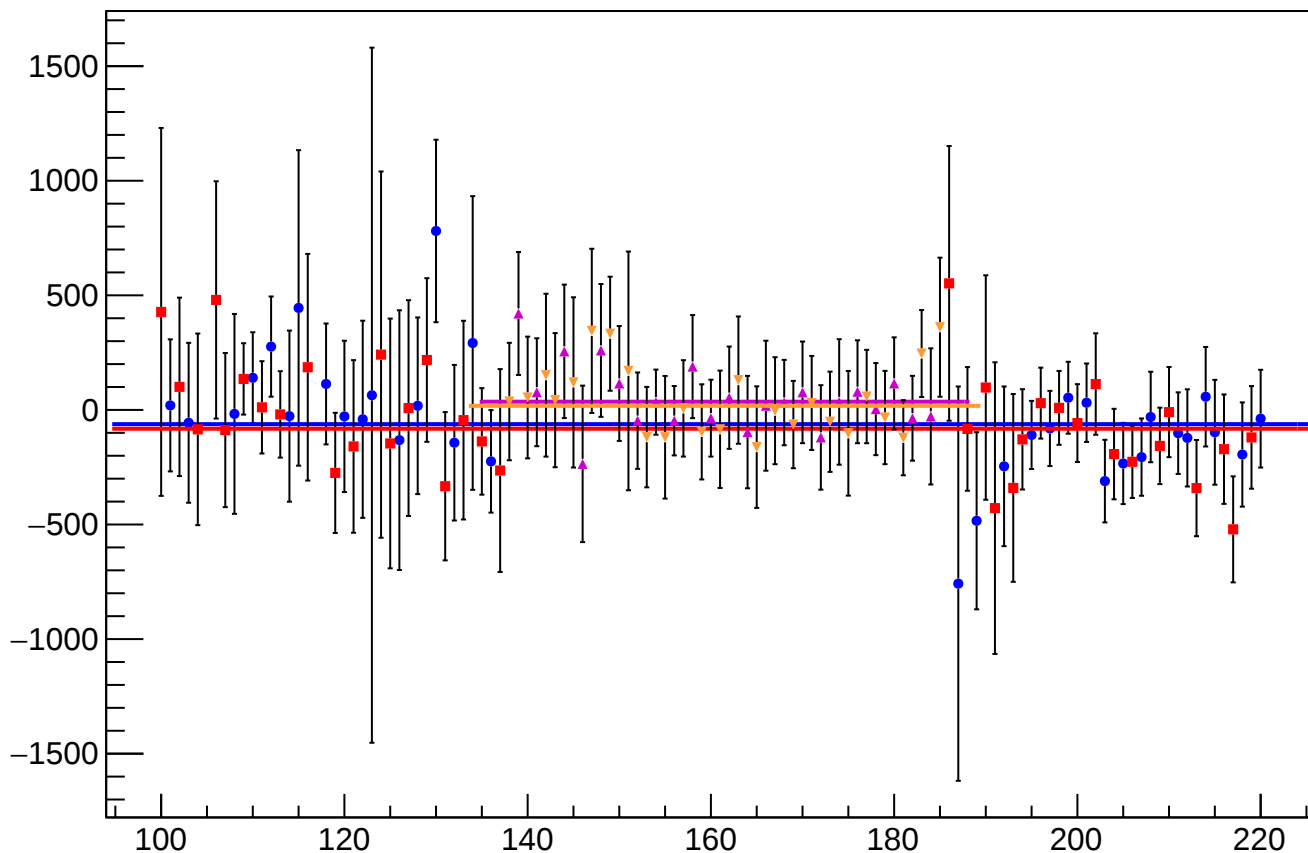
Right: 22.066 $\pm$ 0.003 χ^2/NDF : 114014.8/70

In: 22.340 $\pm$ 0.003 χ^2/NDF : 90428.2/56

Out: 22.497 $\pm$ 0.003 χ^2/NDF : 92603.5/61

All: 22.420 $\pm$ 0.002 χ^2/NDF : 184864.6/118

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -62.082 $\pm$ 41.166 χ^2 /NDF: 17.4/33

Left Out: 17.777 $\pm$ 47.941 χ^2 /NDF:8.5/24

Right Out: -82.100 $\pm$ 41.039 χ^2 /NDF: 17.1/36

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

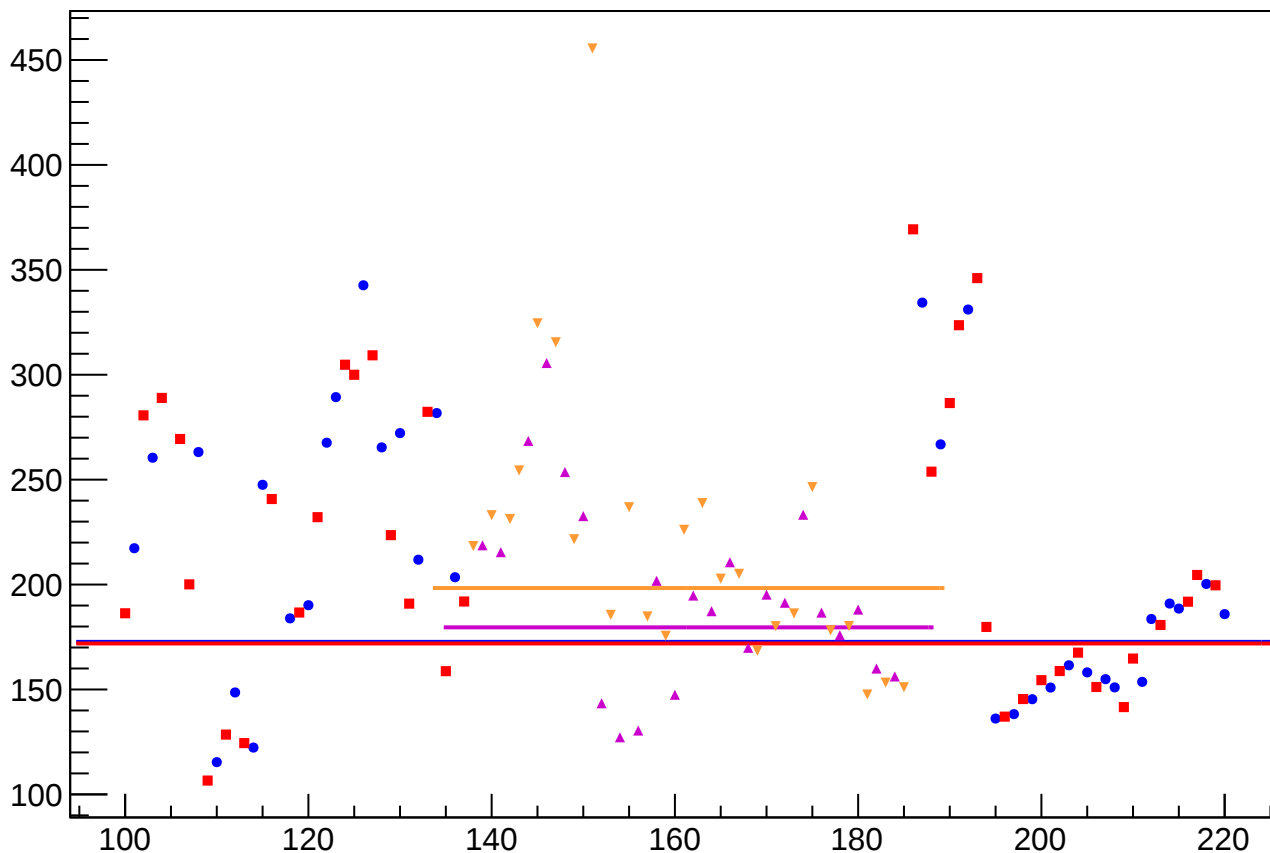
Right: -72.122 $\pm$ 29.064 χ^2 /NDF: 34.7/70

In: -17.546 $\pm$ 30.401 χ^2 /NDF:26.3/56

Out: -39.863 $\pm$ 31.176 χ^2 /NDF:28.2/61

All: -28.424 $\pm$ 21.766 χ^2 /NDF: 54.8/118

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 172.678+/-0.029 χ^2/NDF : 2234351.4/33

Left Out: 198.344+/-0.034 χ^2/NDF : 1757450.6/24

Right Out: 171.926+/-0.029 χ^2/NDF : 2955175.1/36

Left In: 179.605+/-0.032 χ^2/NDF : 1575744.0/22

Left: 188.400+/-0.023 χ^2/NDF : 3495336.8/47

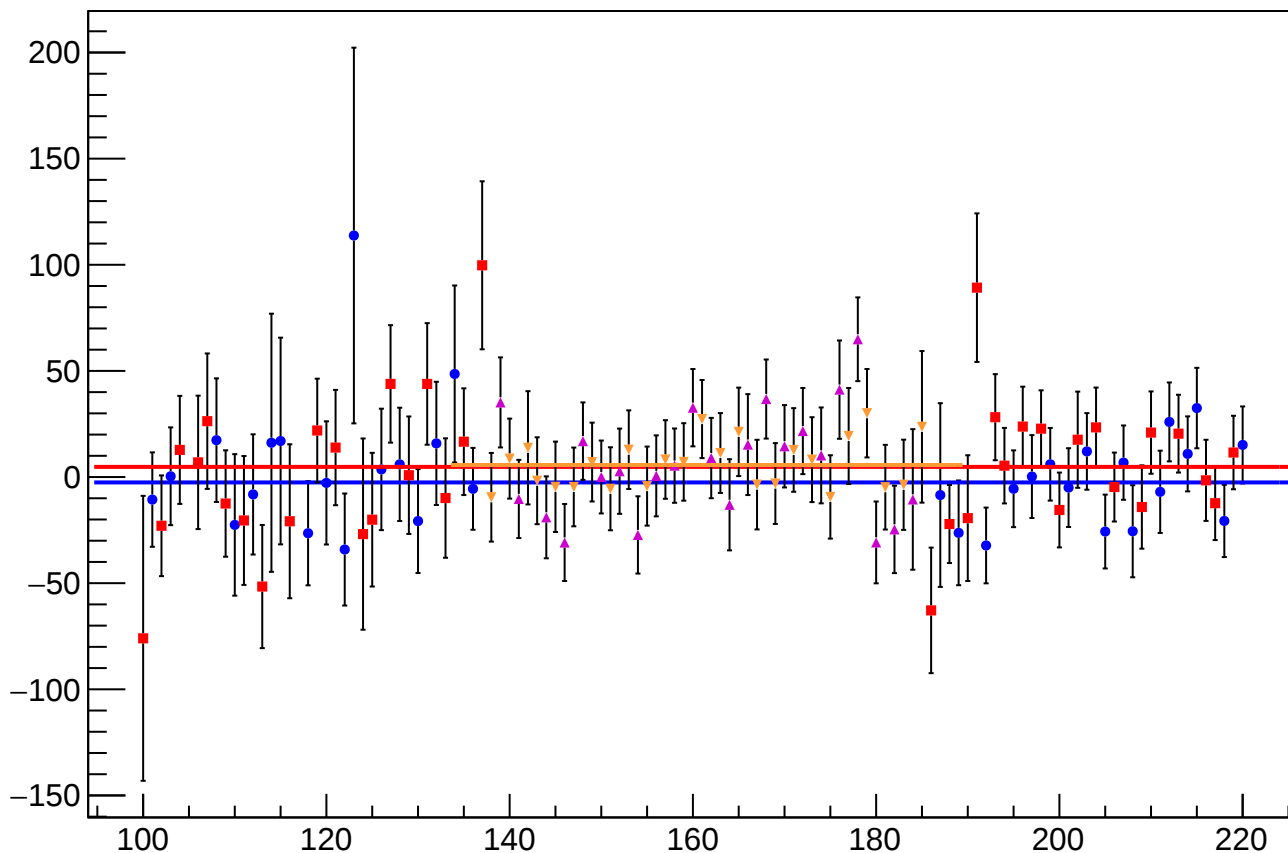
Right: 172.301+/-0.021 χ^2/NDF : 5189861.4/70

In: 175.827+/-0.021 χ^2/NDF : 3835838.5/56

Out: 183.098+/-0.022 χ^2/NDF : 5063099.0/61

All: 179.371+/-0.015 χ^2/NDF : 8954691.4/118

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -2.542 ± 3.829 $\chi^2/\text{NDF}: 24.4/33$

Left Out: 5.680 ± 4.024 $\chi^2/\text{NDF}: 7.7/24$

Right Out: 4.783 ± 3.807 $\chi^2/\text{NDF}: 44.4/36$

Left In: 5.595 ± 4.121 $\chi^2/\text{NDF}: 36.4/22$

Left: 5.639 ± 2.879 $\chi^2/\text{NDF}: 44.1/47$

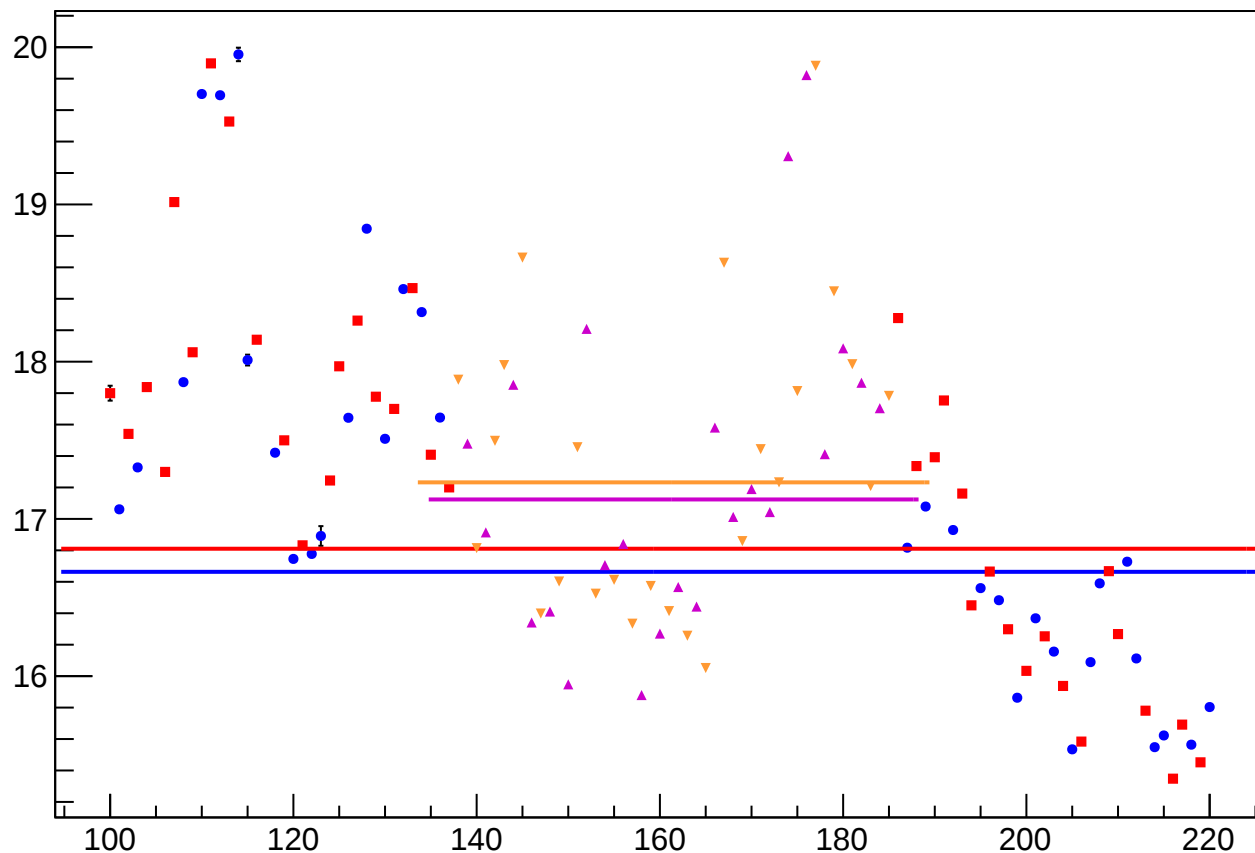
Right: 1.142 ± 2.700 $\chi^2/\text{NDF}: 70.6/70$

In: 1.228 ± 2.805 $\chi^2/\text{NDF}: 62.8/56$

Out: 5.207 ± 2.765 $\chi^2/\text{NDF}: 52.2/61$

All: 3.246 ± 1.969 $\chi^2/\text{NDF}: 116.1/118$

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 16.663 $\pm$ 0.003 χ^2 /NDF: 135691.2/33

Left Out: 17.232 $\pm$ 0.003 χ^2 /NDF:98701.0/24

Right Out: 16.810 $\pm$ 0.003 χ^2 /NDF: 157207.6/36

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

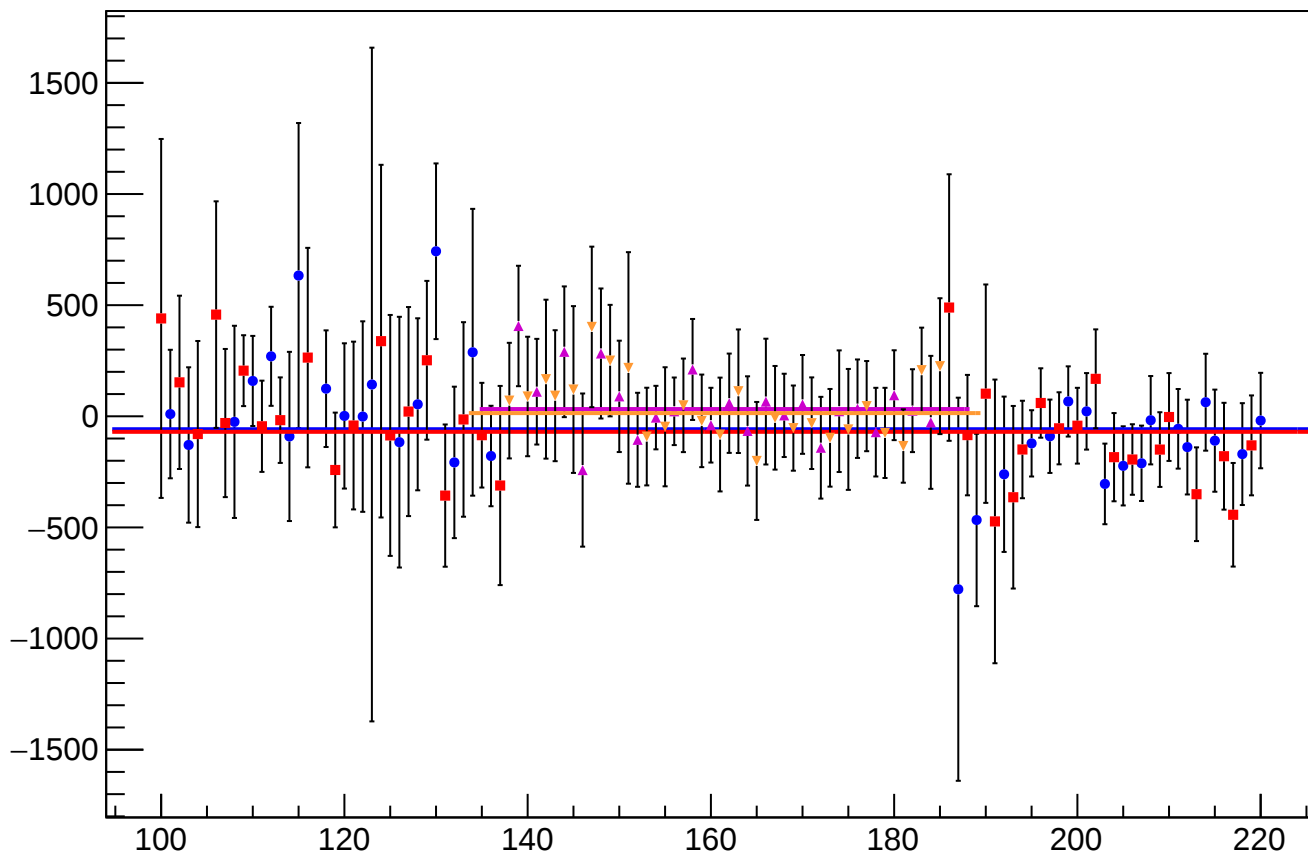
Right: 16.737 $\pm$ 0.002 χ^2 /NDF: 294378.8/70

In: 16.877 $\pm$ 0.002 χ^2 /NDF:249827.0/56

Out: 17.010 $\pm$ 0.002 χ^2 /NDF:267522.7/61

All: 16.944 $\pm$ 0.001 χ^2 /NDF: 519631.3/118

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -58.187 ± 41.407 $\chi^2/\text{NDF}: 17.5/33$

Left Out: 14.362 ± 48.130 $\chi^2/\text{NDF}: 6.9/24$

Right Out: -69.798 ± 41.318 $\chi^2/\text{NDF}: 17.8/36$

Left In: 32.571 ± 45.248 $\chi^2/\text{NDF}: 6.7/22$

Left: 24.028 ± 32.967 $\chi^2/\text{NDF}: 13.7/47$

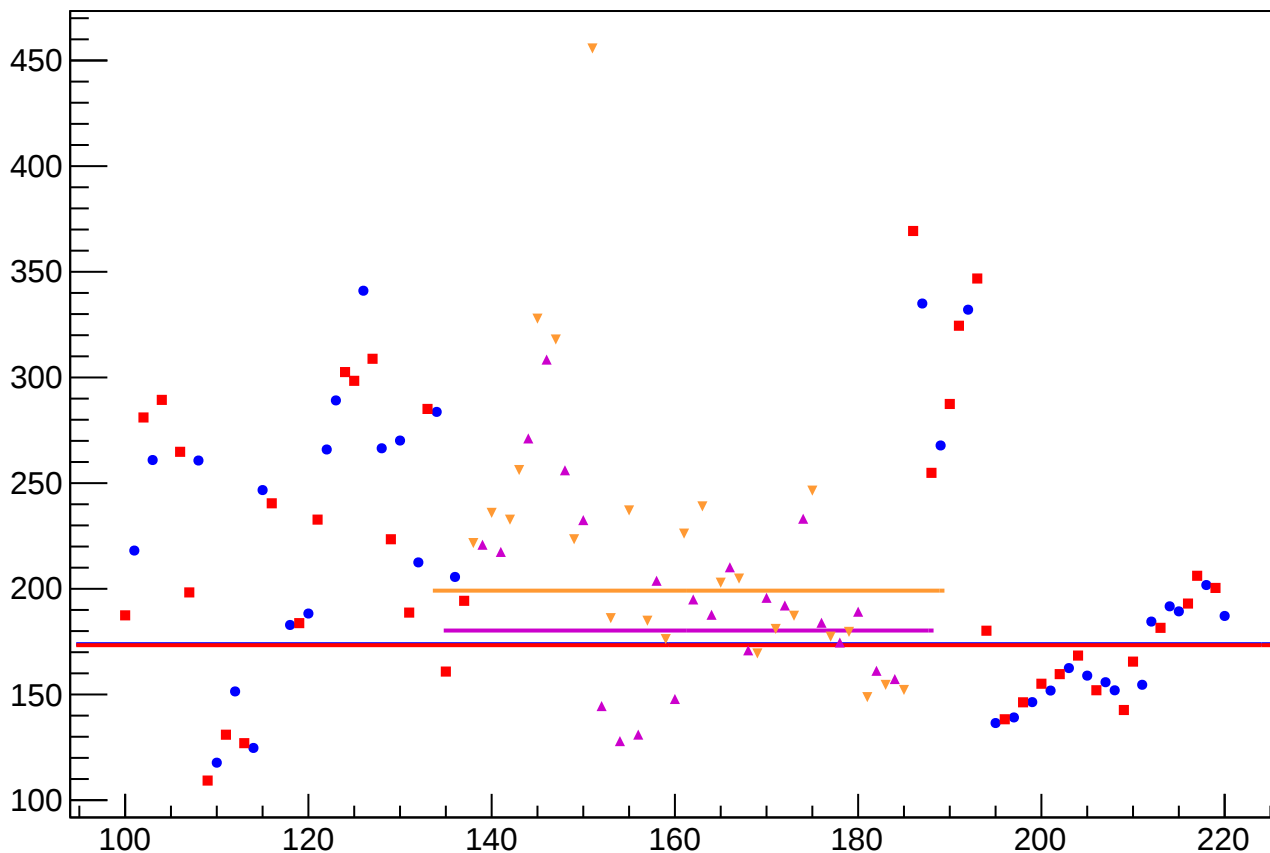
Right: -64.005 ± 29.247 $\chi^2/\text{NDF}: 35.4/70$

In: -16.823 ± 30.547 $\chi^2/\text{NDF}: 26.4/56$

Out: -34.091 ± 31.350 $\chi^2/\text{NDF}: 26.5/61$

All: -25.233 ± 21.878 $\chi^2/\text{NDF}: 53.1/118$

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 173.799 ± 0.029 χ^2/NDF : 2185222.2/33

Left Out: 199.136 ± 0.034 χ^2/NDF : 1760298.1/24

Right Out: 173.331 ± 0.029 χ^2/NDF : 2859971.7/36

Left In: 180.256 ± 0.032 χ^2/NDF : 1580553.5/22

Left: 189.114 ± 0.023 χ^2/NDF : 3504211.1/47

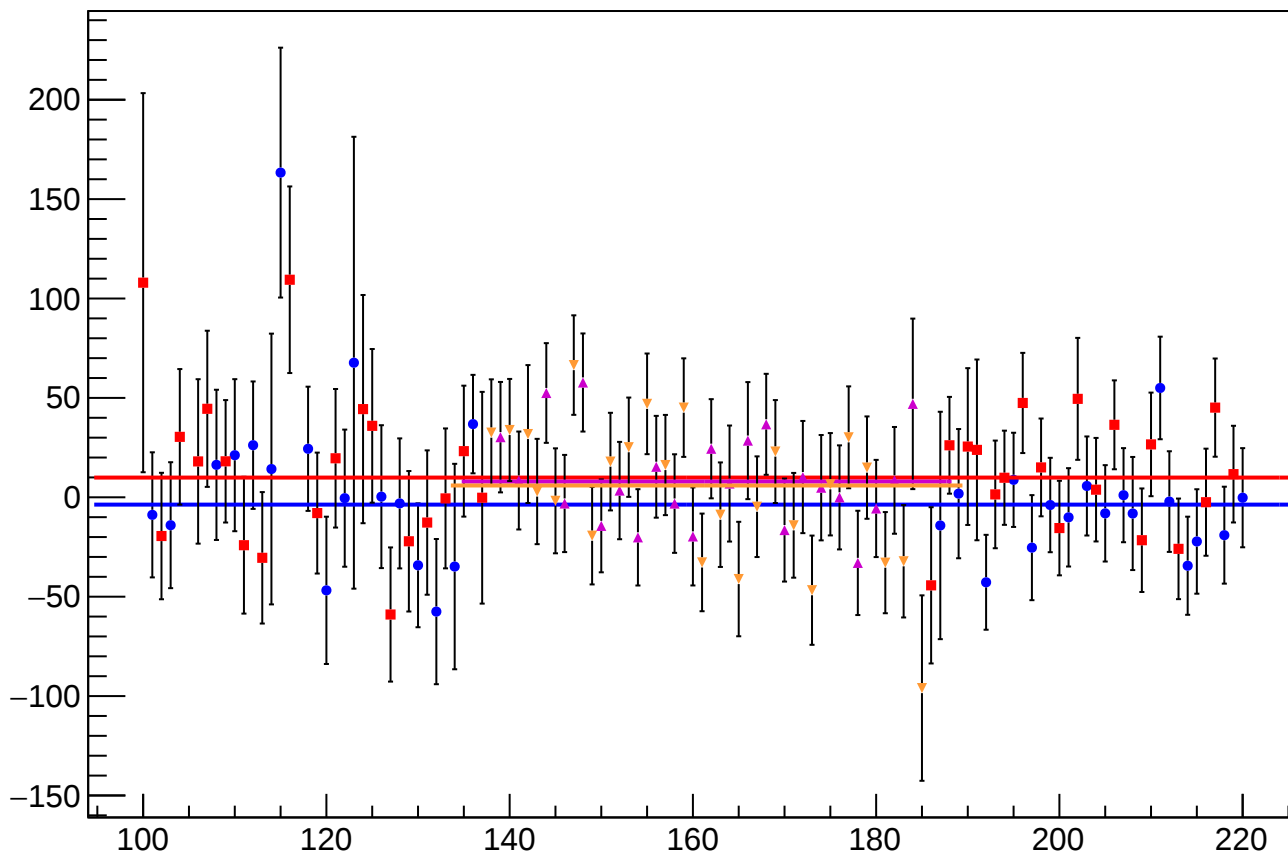
Right: 173.564 ± 0.021 χ^2/NDF : 5045321.8/70

In: 176.742 ± 0.022 χ^2/NDF : 3787945.3/56

Out: 184.279 ± 0.022 χ^2/NDF : 4951260.2/61

All: 180.413 ± 0.015 χ^2/NDF : 8798513.9/118

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -3.682 ± 5.103 $\chi^2/\text{NDF}: 29.2/33$

Left Out: 5.937 ± 5.285 $\chi^2/\text{NDF}: 36.1/24$

Right Out: 9.921 ± 5.050 $\chi^2/\text{NDF}: 32.4/36$

Left In: 7.915 ± 5.422 $\chi^2/\text{NDF}: 18.7/22$

Left: 6.901 ± 3.784 $\chi^2/\text{NDF}: 54.9/47$

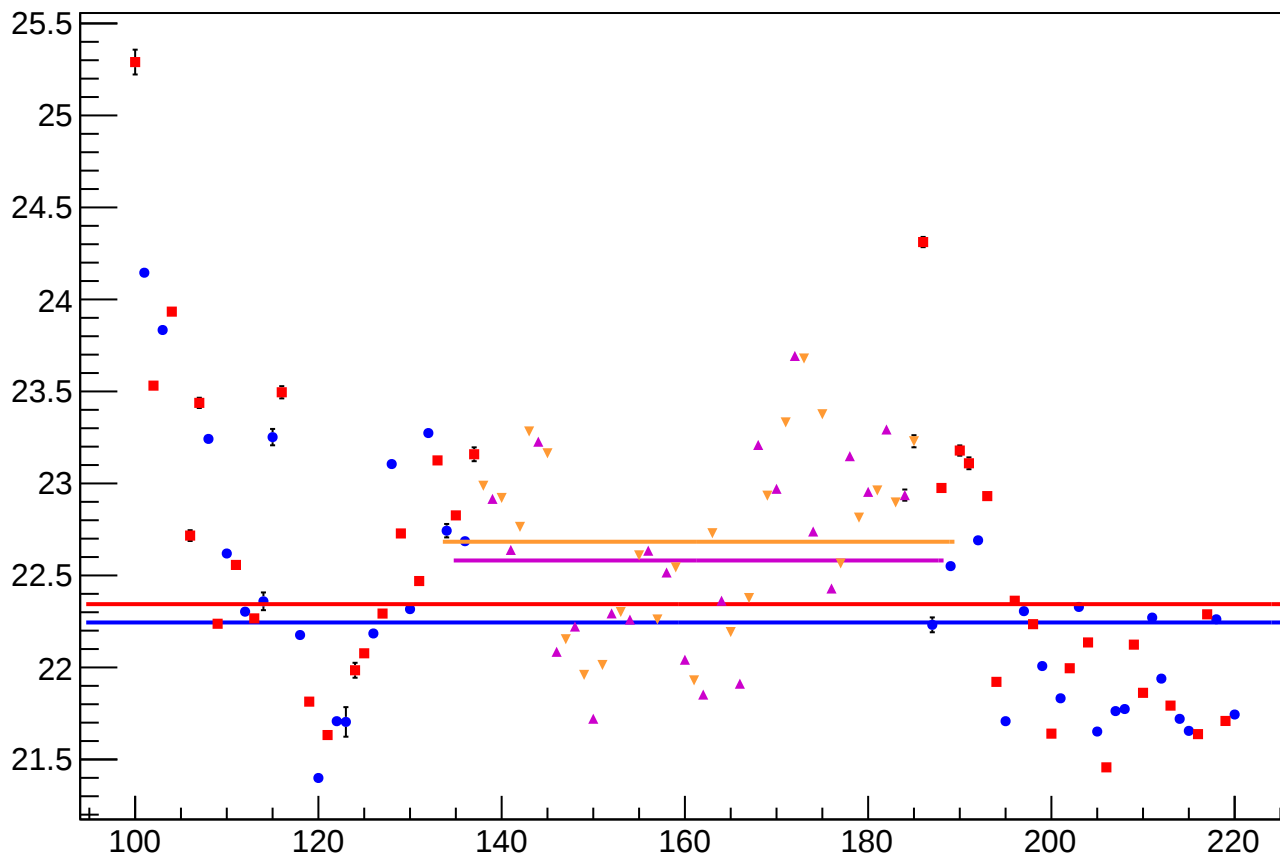
Right: 3.191 ± 3.589 $\chi^2/\text{NDF}: 65.2/70$

In: 1.766 ± 3.716 $\chi^2/\text{NDF}: 50.3/56$

Out: 8.020 ± 3.651 $\chi^2/\text{NDF}: 68.8/61$

All: 4.948 ± 2.604 $\chi^2/\text{NDF}: 120.6/118$

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 22.244+/-0.004 χ^2/NDF : 28105.2/33

Left Out: 22.683+/-0.004 χ^2/NDF : 16320.2/24

Right Out: 22.344+/-0.004 χ^2/NDF : 35078.7/36

Left In: 22.581+/-0.004 χ^2/NDF : 17904.5/22

Left: 22.634+/-0.003 χ^2/NDF : 34586.9/47

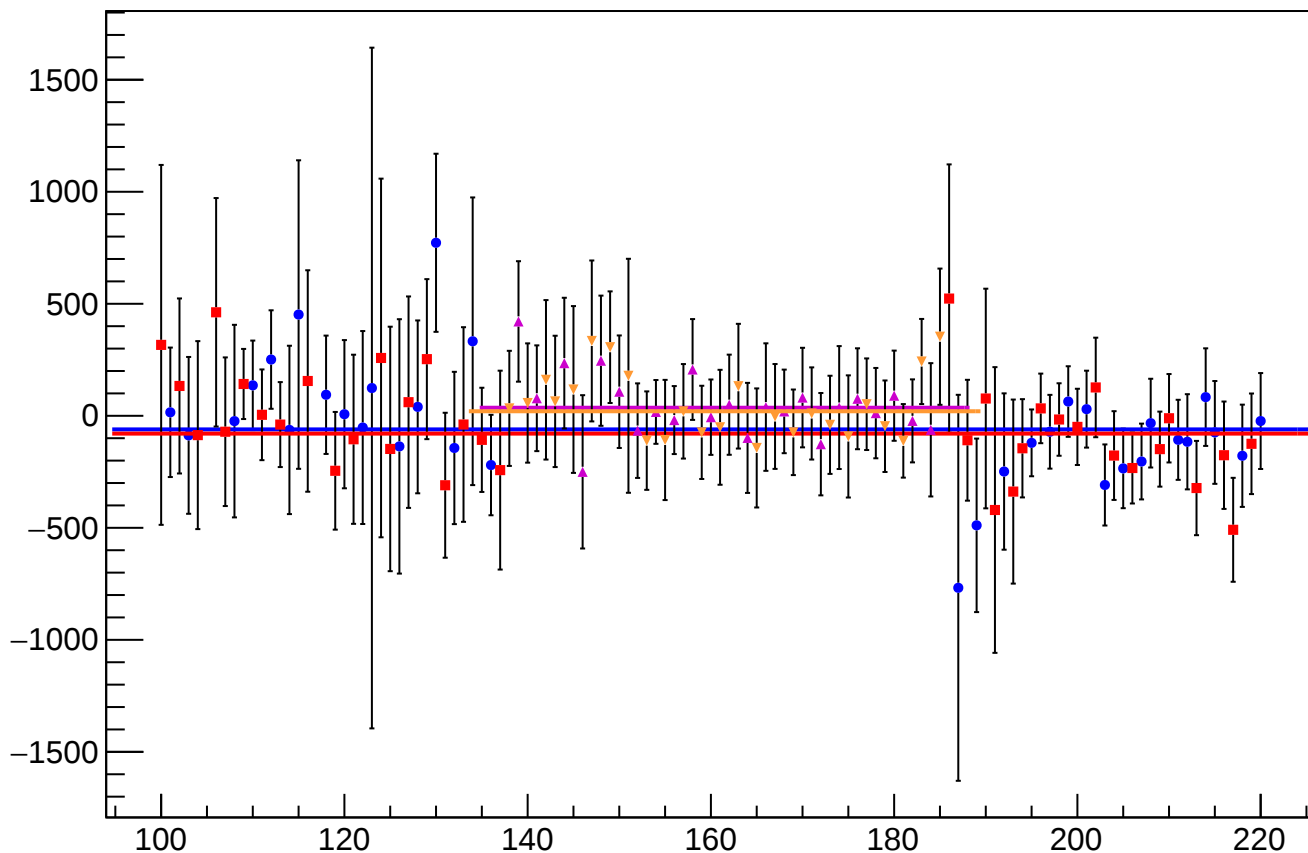
Right: 22.295+/-0.003 χ^2/NDF : 63568.7/70

In: 22.403+/-0.003 χ^2/NDF : 50104.4/56

Out: 22.506+/-0.003 χ^2/NDF : 55705.1/61

All: 22.455+/-0.002 χ^2/NDF : 106594.5/118

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -60.700 ± 41.291 $\chi^2/\text{NDF}: 17.1/33$

Left Out: 20.306 ± 48.049 $\chi^2/\text{NDF}: 7.7/24$

Right Out: -79.458 ± 41.150 $\chi^2/\text{NDF}: 16.2/36$

Left In: 35.996 ± 45.180 $\chi^2/\text{NDF}: 6.1/22$

Left: 28.633 ± 32.915 $\chi^2/\text{NDF}: 13.8/47$

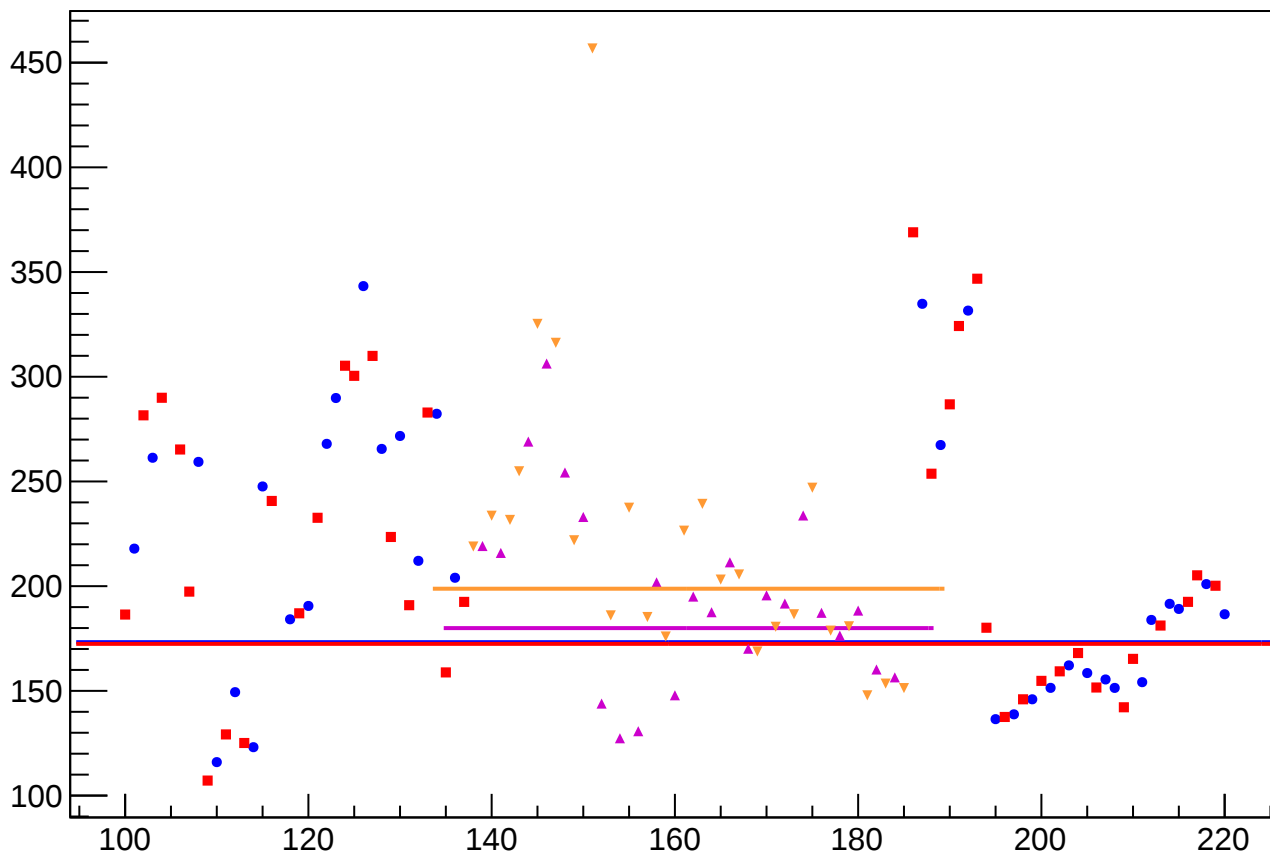
Right: -70.111 ± 29.147 $\chi^2/\text{NDF}: 33.5/70$

In: -16.692 ± 30.480 $\chi^2/\text{NDF}: 25.7/56$

Out: -37.246 ± 31.255 $\chi^2/\text{NDF}: 26.4/61$

All: -26.711 ± 21.821 $\chi^2/\text{NDF}: 52.3/118$

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 173.249 $\pm$ 0.029 χ^2 /NDF: 2215577.5/33

Left Out: 198.784 $\pm$ 0.034 χ^2 /NDF:1758481.8/24

Right Out: 172.453 $\pm$ 0.029 χ^2 /NDF: 2929551.6/36

Left In: 179.972 $\pm$ 0.032 χ^2 /NDF:1575888.3/22

Left: 188.800 $\pm$ 0.023 χ^2 /NDF: 3497081.8/47

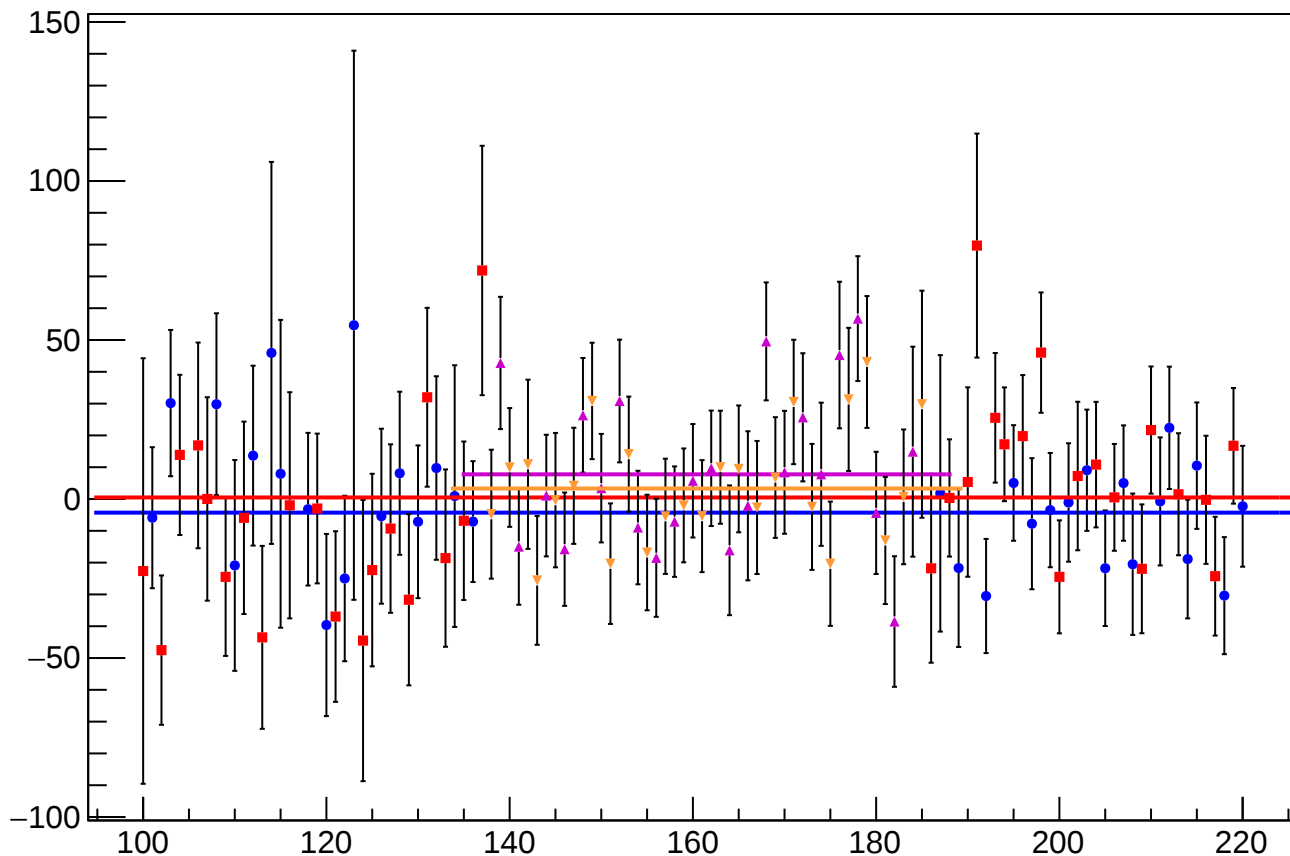
Right: 172.850 $\pm$ 0.021 χ^2 /NDF: 5145502.8/70

In: 176.309 $\pm$ 0.022 χ^2 /NDF:3815595.4/56

Out: 183.594 $\pm$ 0.022 χ^2 /NDF:5034537.6/61

All: 179.860 $\pm$ 0.015 χ^2 /NDF: 8905823.6/118

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: -4.286 ± 3.908 $\chi^2/\text{NDF}: 18.6/33$

Left Out: 3.307 ± 3.954 $\chi^2/\text{NDF}: 18.7/24$

Right Out: 0.489 ± 3.868 $\chi^2/\text{NDF}: 40.6/36$

Left In: 7.756 ± 4.061 $\chi^2/\text{NDF}: 34.3/22$

Left: 5.472 ± 2.833 $\chi^2/\text{NDF}: 53.6/47$

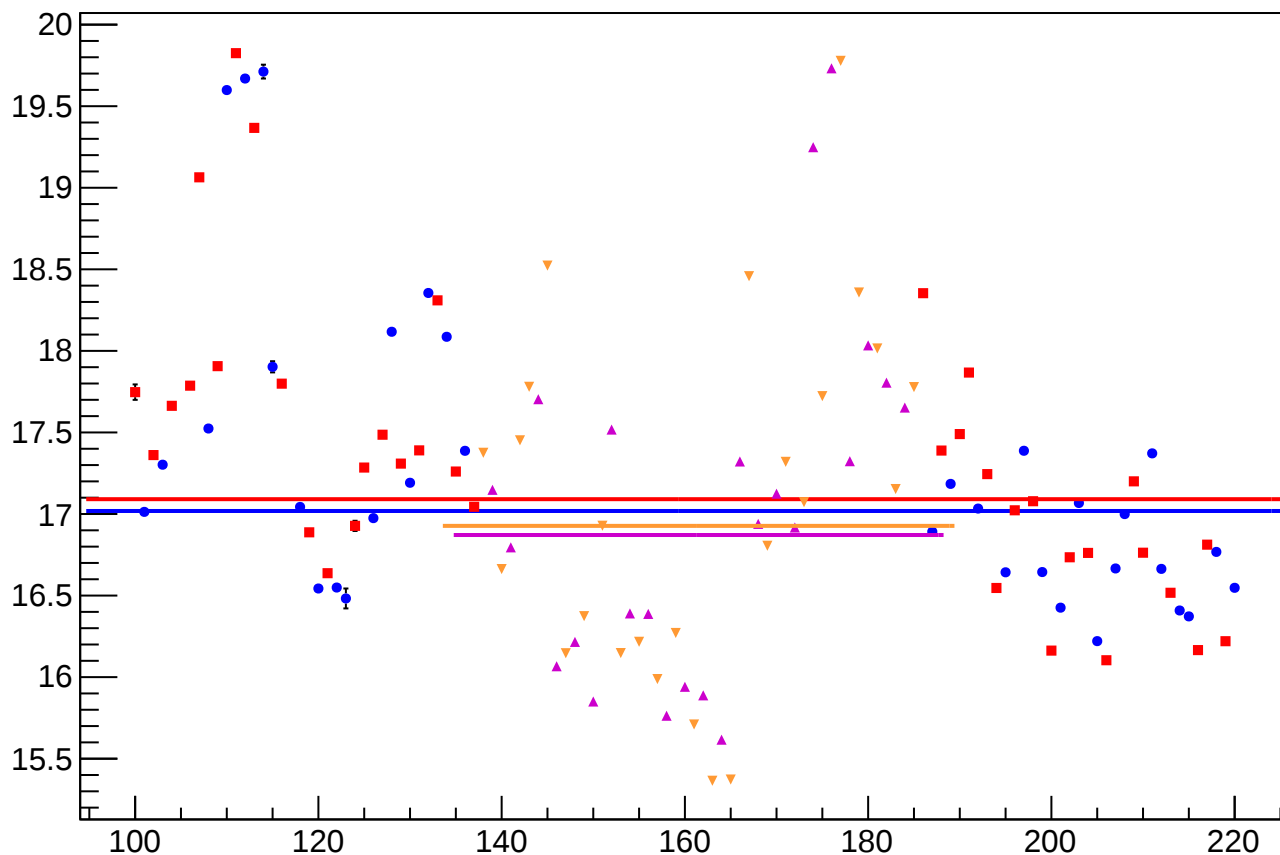
Right: -1.874 ± 2.749 $\chi^2/\text{NDF}: 59.9/70$

In: 1.505 ± 2.816 $\chi^2/\text{NDF}: 57.4/56$

Out: 1.867 ± 2.765 $\chi^2/\text{NDF}: 59.5/61$

All: 1.689 ± 1.973 $\chi^2/\text{NDF}: 116.9/118$

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 17.019 $\pm$ 0.003 χ^2 /NDF: 63034.1/33

Left Out: 16.927 $\pm$ 0.003 χ^2 /NDF:138533.2/24

Right Out: 17.091 $\pm$ 0.003 χ^2 /NDF: 79880.5/36

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

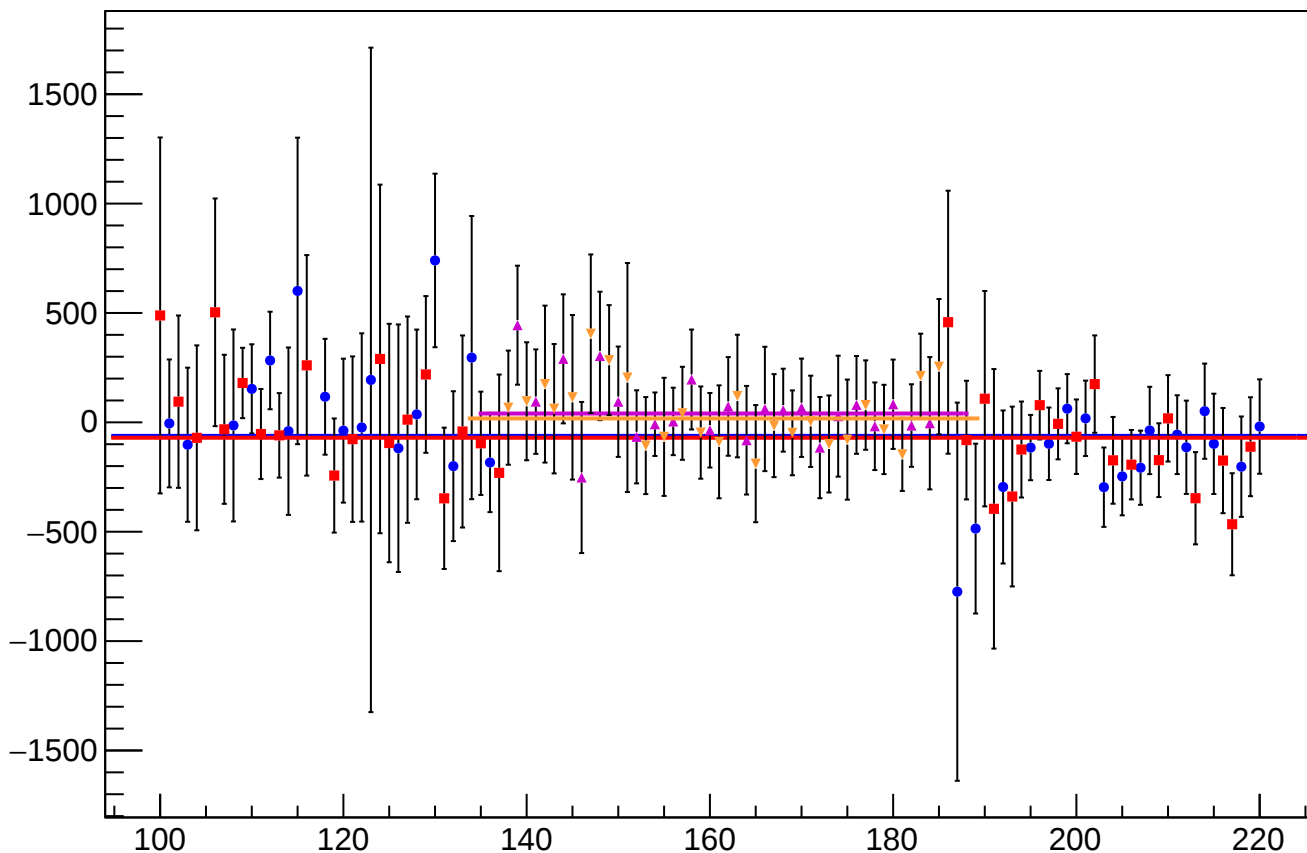
Right: 17.055 $\pm$ 0.002 χ^2 /NDF: 143261.2/70

In: 16.948 $\pm$ 0.002 χ^2 /NDF:182392.8/56

Out: 17.011 $\pm$ 0.002 χ^2 /NDF:220164.0/61

All: 16.980 $\pm$ 0.001 χ^2 /NDF: 403069.4/118

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -61.928 ± 41.516 χ^2/NDF : 17.5/33

Left Out: 17.828 ± 48.547 χ^2/NDF : 7.5/24

Right Out: -70.383 ± 41.447 χ^2/NDF : 17.1/36

Left In: 40.355 ± 45.689 χ^2/NDF : 6.6/22

Left: 29.774 ± 33.271 χ^2/NDF : 14.2/47

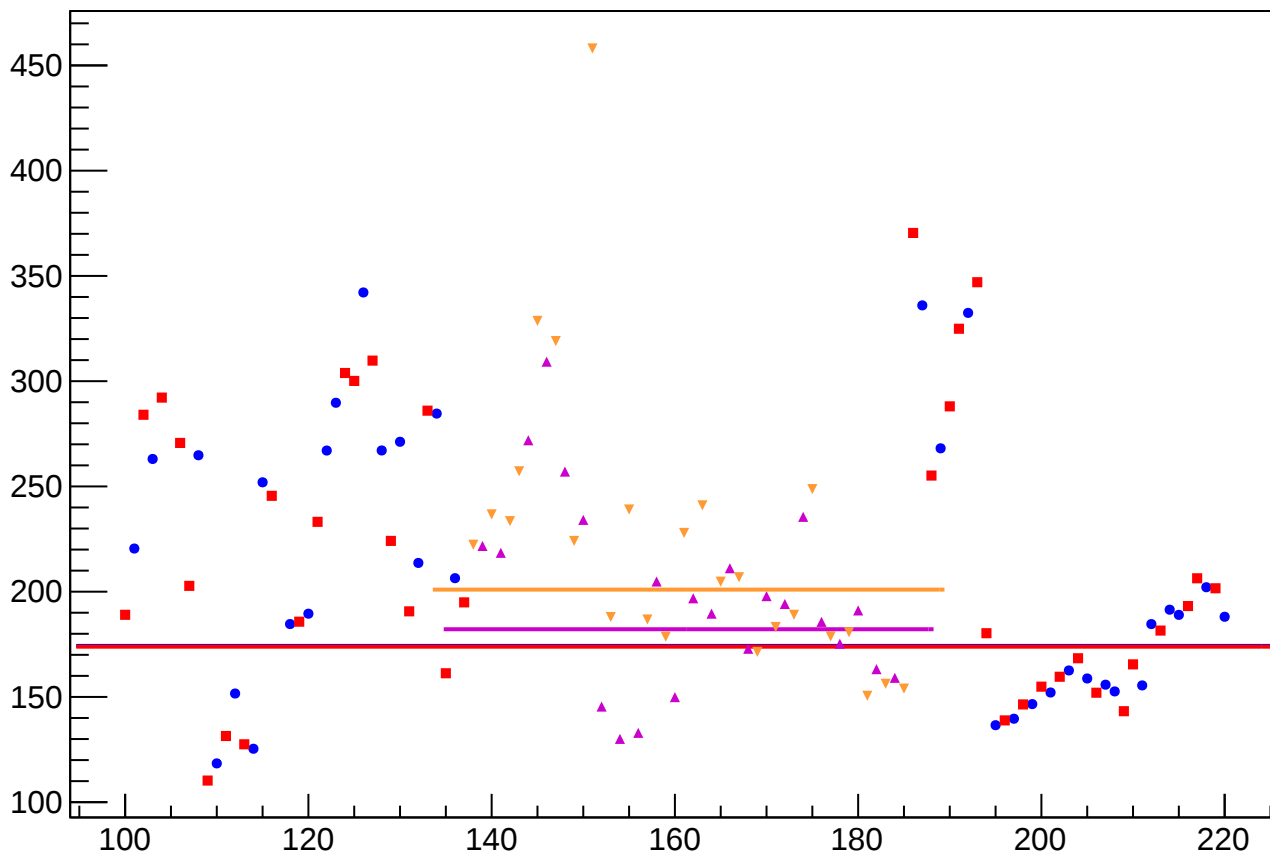
Right: -66.163 ± 29.332 χ^2/NDF : 34.6/70

In: -15.670 ± 30.726 χ^2/NDF : 26.9/56

Out: -33.194 ± 31.522 χ^2/NDF : 26.5/61

All: -24.208 ± 22.002 χ^2/NDF : 53.5/118

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 174.240 $\pm$ 0.029 χ^2 /NDF: 2197464.5/33

Left Out: 200.985 $\pm$ 0.034 χ^2 /NDF:1727291.4/24

Right Out: 173.875 $\pm$ 0.029 χ^2 /NDF: 2869762.0/36

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

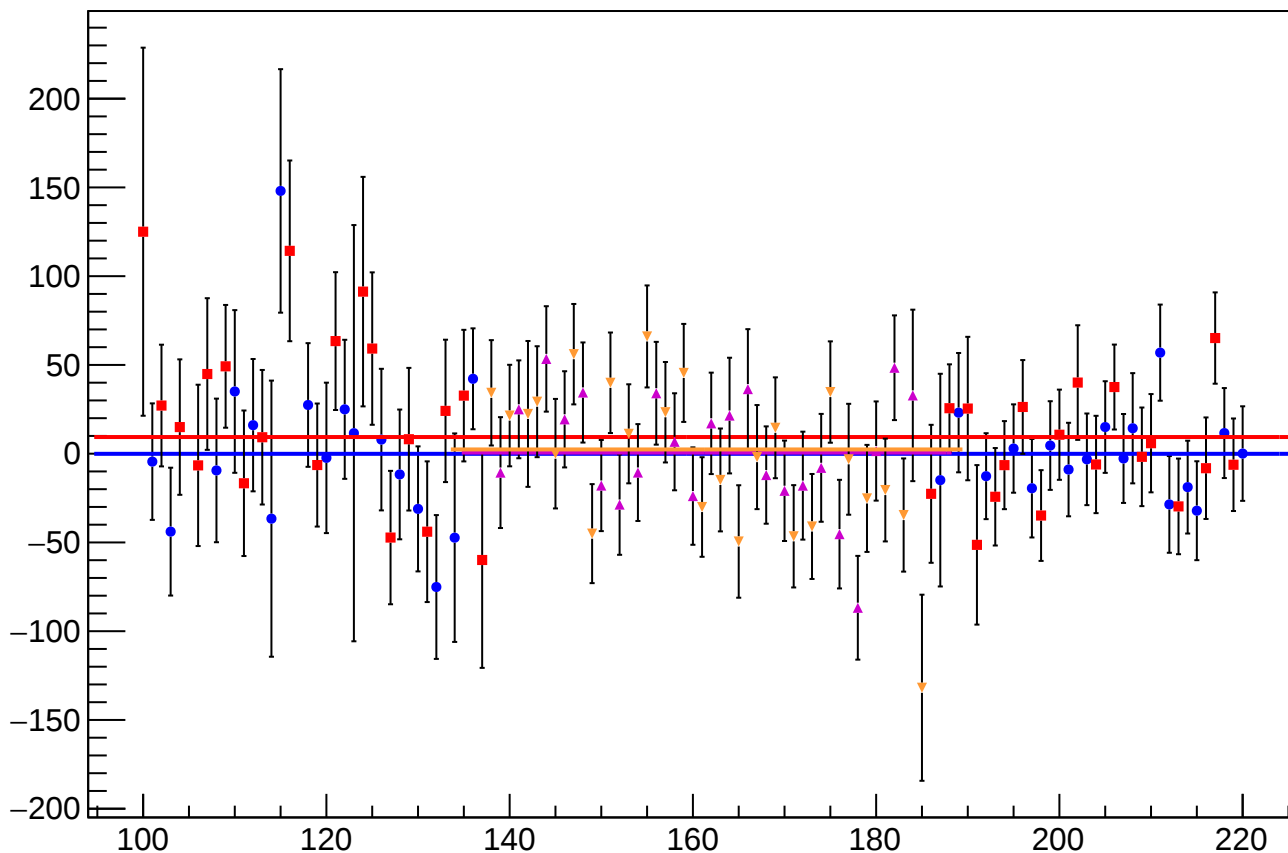
Right: 174.058 $\pm$ 0.021 χ^2 /NDF: 5067303.8/70

In: 177.821 $\pm$ 0.022 χ^2 /NDF:3766288.6/56

Out: 185.305 $\pm$ 0.022 χ^2 /NDF:4957787.0/61

All: 181.467 $\pm$ 0.016 χ^2 /NDF: 8781879.3/118

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: -0.075 ± 5.488 $\chi^2/\text{NDF}: 25.1/33$

Left Out: 2.390 ± 5.980 $\chi^2/\text{NDF}: 39.1/24$

Right Out: 9.382 ± 5.413 $\chi^2/\text{NDF}: 38.1/36$

Left In: 0.641 ± 6.091 $\chi^2/\text{NDF}: 27.3/22$

Left: 1.531 ± 4.267 $\chi^2/\text{NDF}: 66.5/47$

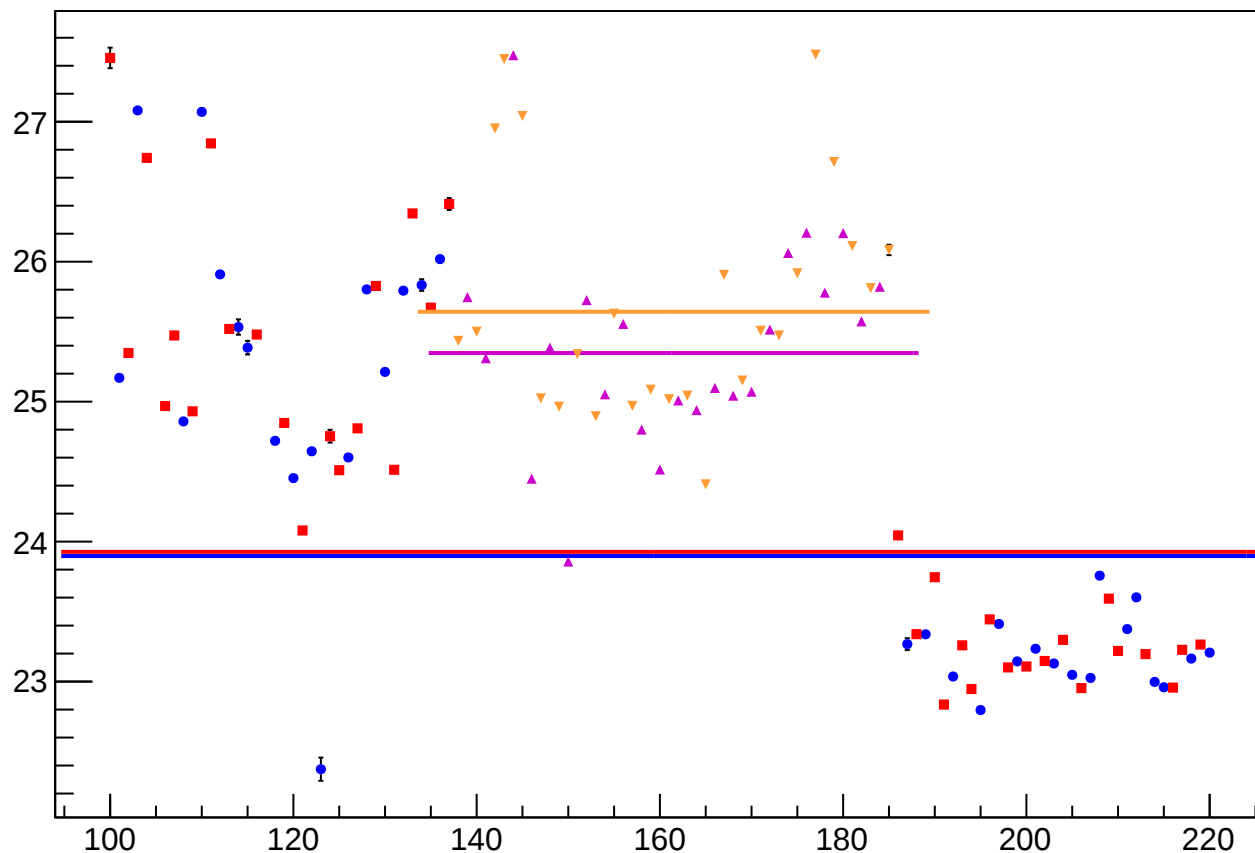
Right: 4.719 ± 3.854 $\chi^2/\text{NDF}: 64.7/70$

In: 0.246 ± 4.077 $\chi^2/\text{NDF}: 52.4/56$

Out: 6.233 ± 4.013 $\chi^2/\text{NDF}: 77.9/61$

All: 3.287 ± 2.860 $\chi^2/\text{NDF}: 131.4/118$

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 23.897 $\pm$ 0.004 χ^2 /NDF: 92018.7/33

Left Out: 25.642 $\pm$ 0.004 χ^2 /NDF:34802.2/24

Right Out: 23.927 $\pm$ 0.004 χ^2 /NDF: 85905.9/36

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

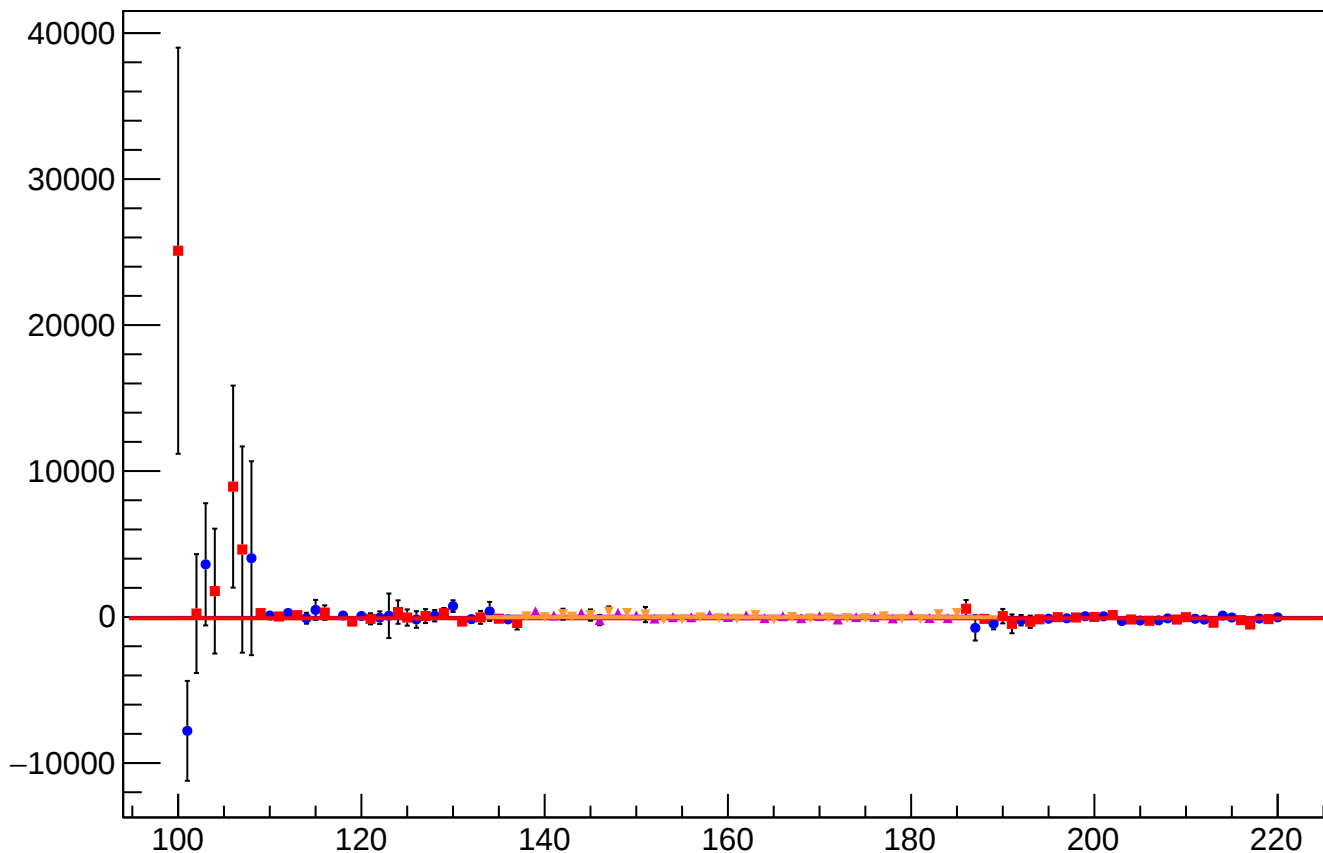
Right: 23.912 $\pm$ 0.003 χ^2 /NDF: 177955.2/70

In: 24.547 $\pm$ 0.003 χ^2 /NDF:184015.7/56

Out: 24.699 $\pm$ 0.003 χ^2 /NDF:211162.1/61

All: 24.624 $\pm$ 0.002 χ^2 /NDF: 396602.9/118

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -58.170+/-43.228 χ^2/NDF : 22.4/33

Left Out: -11.432+/-48.263 χ^2/NDF : 8.0/24

Right Out: -85.352+/-43.780 χ^2/NDF : 24.5/36

Left In: 27.098+/-45.999 χ^2/NDF : 7.2/22

Left: 8.758+/-33.298 χ^2/NDF : 15.5/47

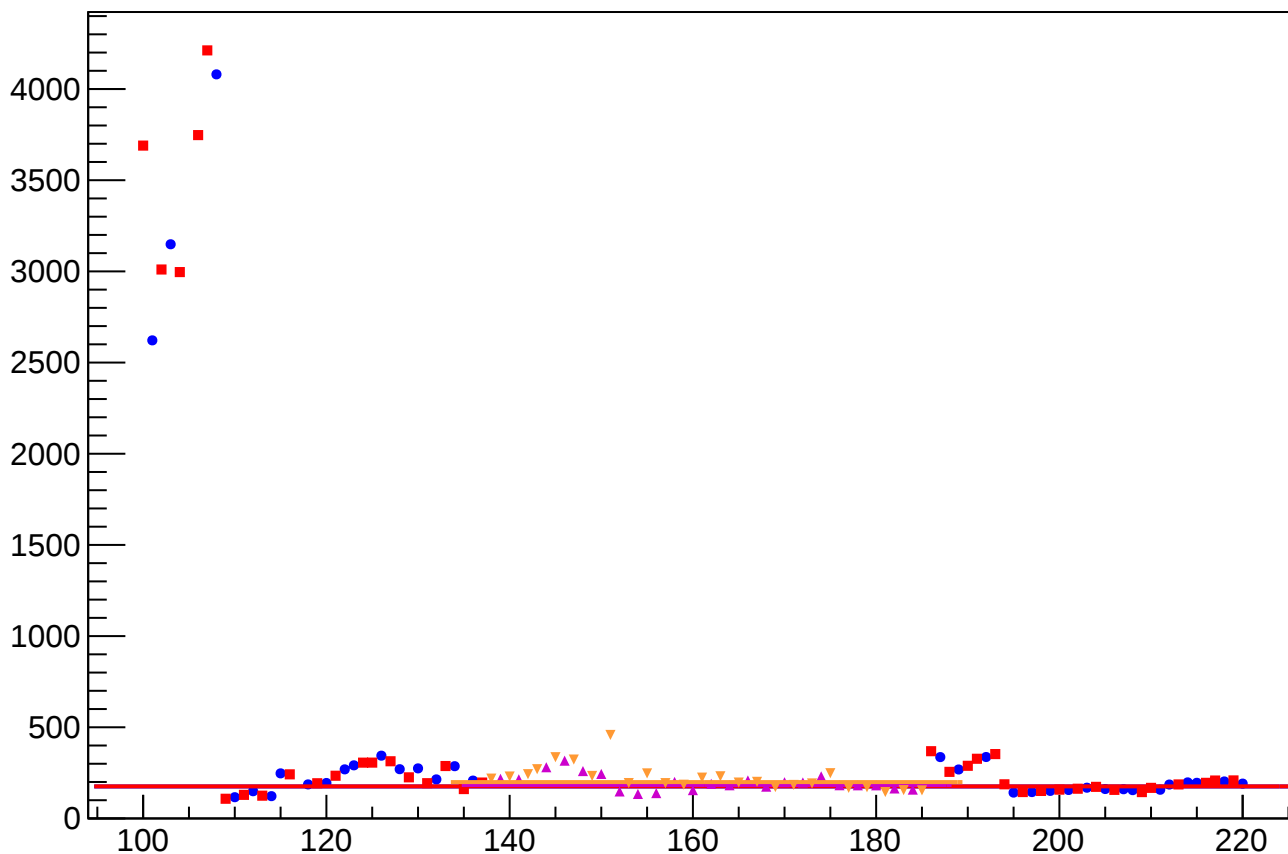
Right: -71.588+/-30.760 χ^2/NDF : 47.0/70

In: -18.181+/-31.501 χ^2/NDF : 31.4/56

Out: -51.984+/-32.426 χ^2/NDF : 33.8/61

All: -34.593+/-22.594 χ^2/NDF : 65.7/118

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 175.317 $\pm$ 0.031 χ^2 /NDF: 4611554.5/33

Left Out: 199.438 $\pm$ 0.034 χ^2 /NDF: 1877848.7/24

Right Out: 175.933 $\pm$ 0.031 χ^2 /NDF: 5500992.1/36

Left In: 183.805 $\pm$ 0.033 χ^2 /NDF: 1412869.6/22

Left: 191.246 $\pm$ 0.024 χ^2 /NDF: 3400676.1/47

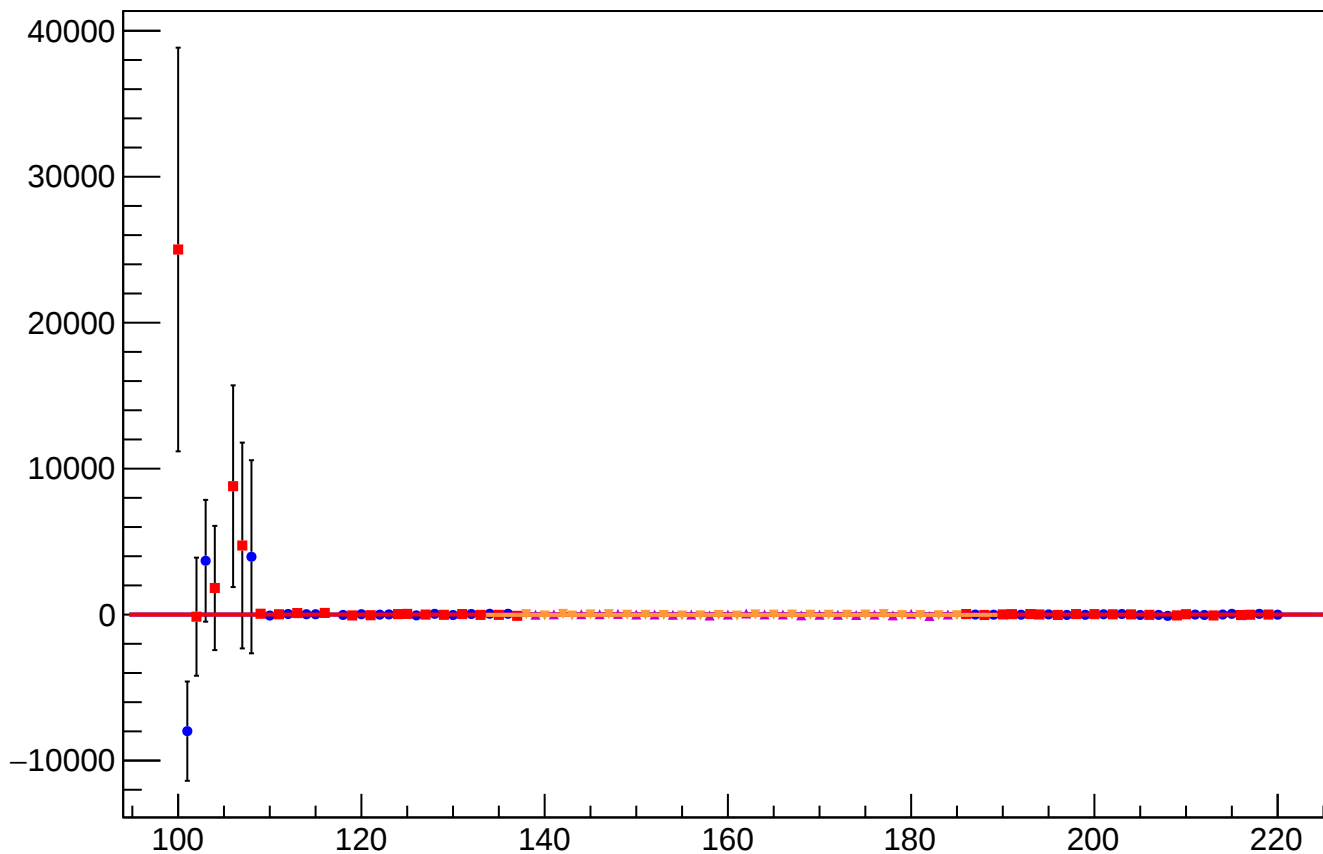
Right: 175.621 $\pm$ 0.022 χ^2 /NDF: 10112747.1/70

In: 179.298 $\pm$ 0.022 χ^2 /NDF: 6060586.8/56

Out: 186.543 $\pm$ 0.023 χ^2 /NDF: 7639077.7/61

All: 182.816 $\pm$ 0.016 χ^2 /NDF: 13751040.9/136

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 3.197 ± 6.568 $\chi^2/\text{NDF}: 35.4/33$

Left Out: -18.118 ± 6.704 $\chi^2/\text{NDF}: 21.7/24$

Right Out: 3.403 ± 6.590 $\chi^2/\text{NDF}: 39.3/36$

Left In: 1.267 ± 6.908 $\chi^2/\text{NDF}: 32.0/22$

Left: -8.716 ± 4.811 $\chi^2/\text{NDF}: 57.8/47$

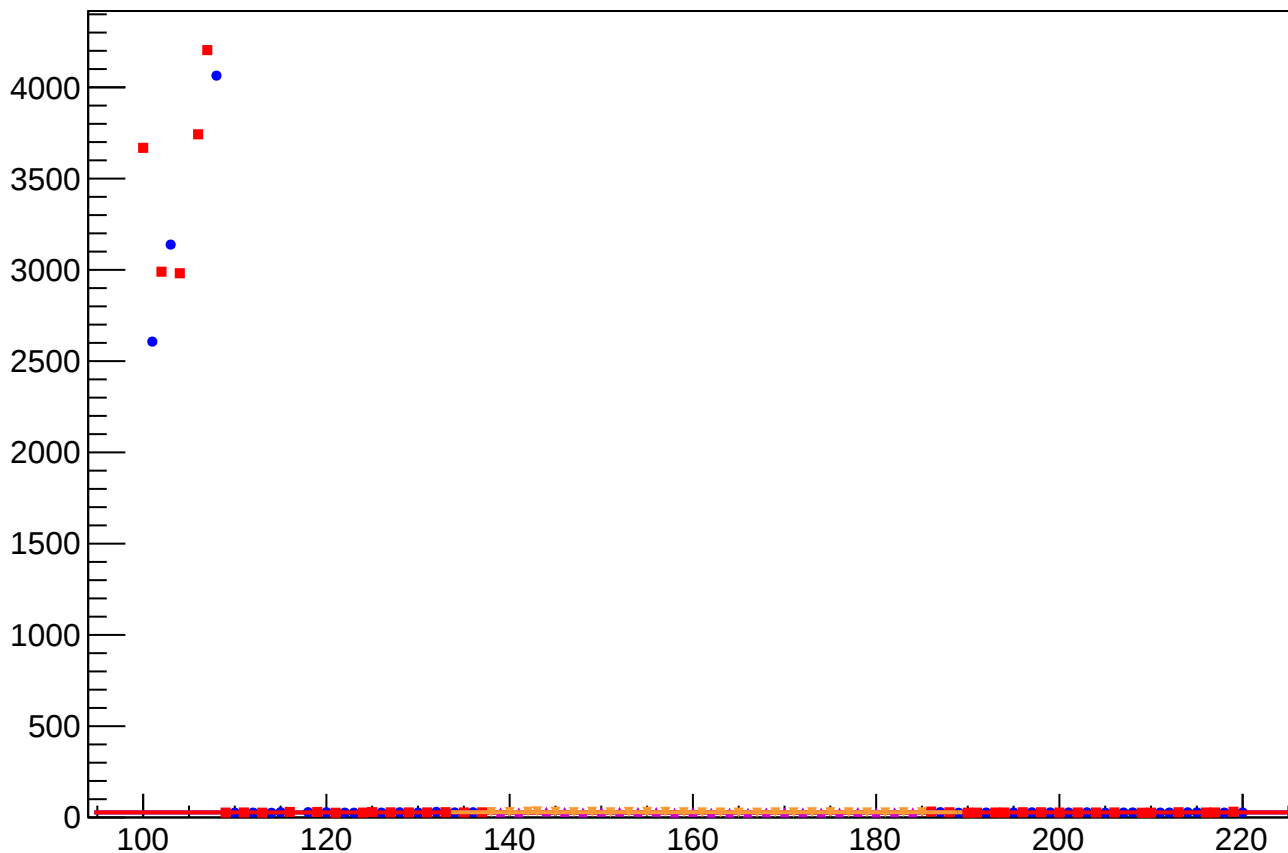
Right: 3.300 ± 4.652 $\chi^2/\text{NDF}: 74.7/70$

In: 2.281 ± 4.760 $\chi^2/\text{NDF}: 67.5/56$

Out: -7.173 ± 4.699 $\chi^2/\text{NDF}: 66.3/61$

All: -2.507 ± 3.344 $\chi^2/\text{NDF}: 135.8/118$

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 27.454+/-0.005 χ^2/NDF : 3045220.5/33

Left Out: 28.694+/-0.005 χ^2/NDF :110466.9/24

Right Out: 27.564+/-0.005 χ^2/NDF : 3537749.1/36

Left In: 28.677+/-0.005 χ^2/NDF :123814.4/22

Left: 28.685+/-0.003 χ^2/NDF : 234287.5/47

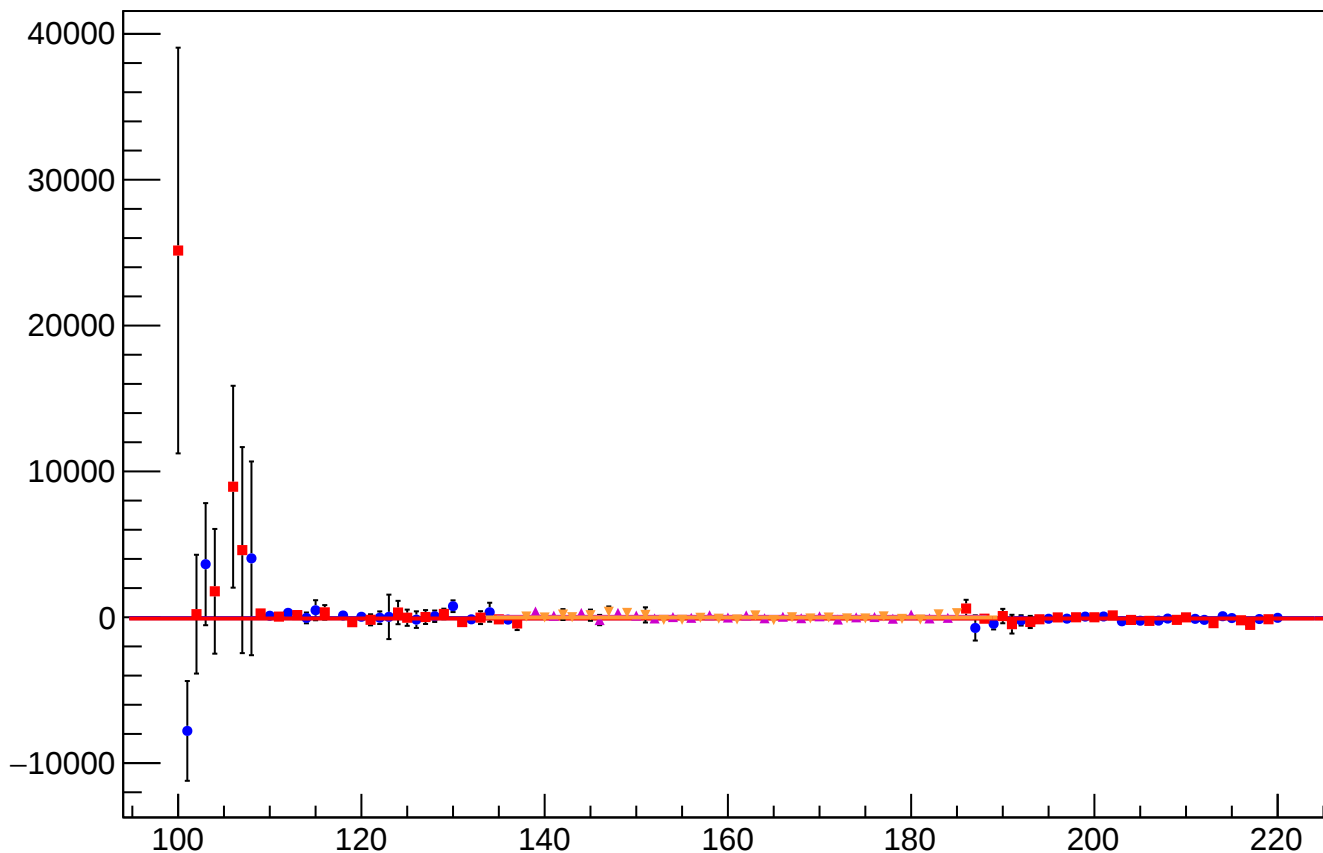
Right: 27.509+/-0.003 χ^2/NDF : 6583248.2/70

In: 28.035+/-0.003 χ^2/NDF :3201934.0/56

Out: 28.119+/-0.003 χ^2/NDF :3677100.4/61

All: 28.077+/-0.002 χ^2/NDF : 6879353.7/118

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -59.984 $\pm$ 43.095 χ^2 /NDF: 22.6/33

Left Out: -13.878 $\pm$ 48.155 χ^2 /NDF: 8.8/24

Right Out: -87.682 $\pm$ 43.653 χ^2 /NDF: 25.5/36

Left In: 27.286 $\pm$ 45.907 χ^2 /NDF: 7.5/22

Left: 7.688 $\pm$ 33.228 χ^2 /NDF: 16.7/47

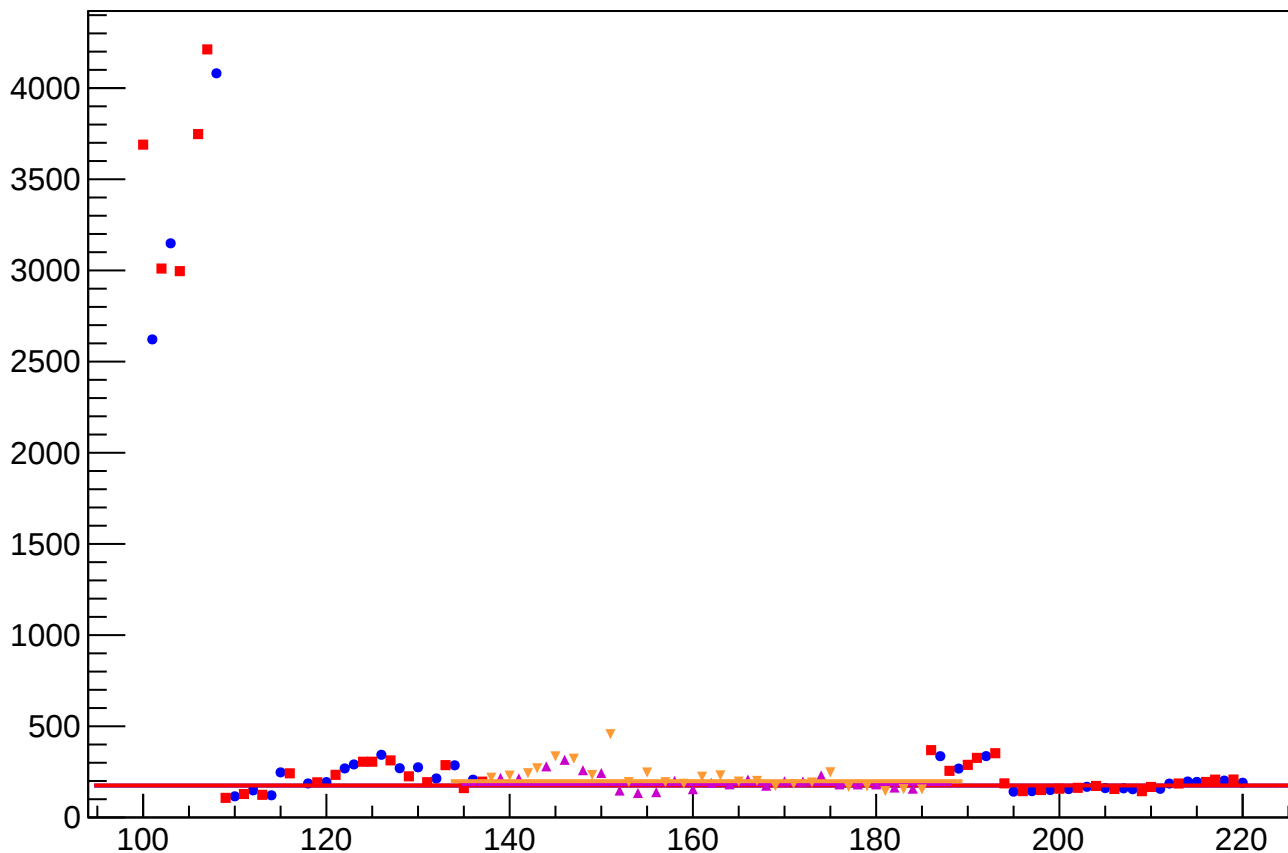
Right: -73.655 $\pm$ 30.668 χ^2 /NDF: 48.3/70

In: -19.103 $\pm$ 31.420 χ^2 /NDF: 31.9/56

Out: -54.391 $\pm$ 32.342 χ^2 /NDF: 35.6/61

All: -36.237 $\pm$ 22.536 χ^2 /NDF: 68.2/118

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 174.744+/-0.030 χ^2/NDF : 4624931.1/33

Left Out: 198.997+/-0.034 χ^2/NDF : 1877636.0/24

Right Out: 175.376+/-0.031 χ^2/NDF : 5519132.3/36

Left In: 183.442+/-0.032 χ^2/NDF : 1412341.8/22

Left: 190.847+/-0.023 χ^2/NDF : 3399302.2/47

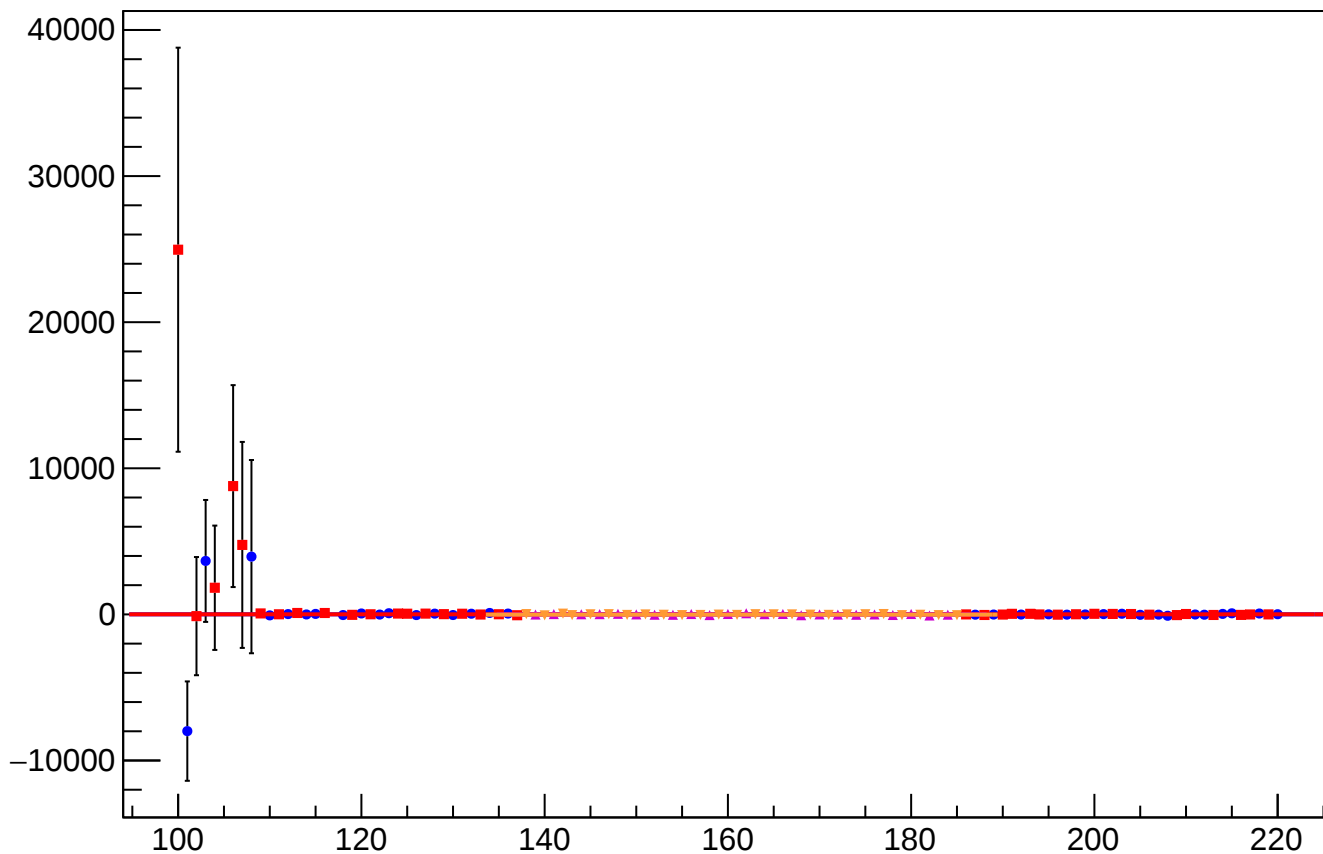
Right: 175.056+/-0.022 χ^2/NDF : 10144276.2/70

In: 178.818+/-0.022 χ^2/NDF : 6075437.2/56

Out: 186.031+/-0.023 χ^2/NDF : 7660899.3/61

All: 182.320+/-0.016 χ^2/NDF : 13787510.0/13

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 5.210+/-6.522 χ^2/NDF : 44.8/33

Left Out: -15.829+/-6.733 χ^2/NDF : 16.5/24

Right Out: 6.393+/-6.554 χ^2/NDF : 34.5/36

Left In: -0.498+/-6.937 χ^2/NDF : 26.1/22

Left: -8.392+/-4.831 χ^2/NDF : 45.1/47

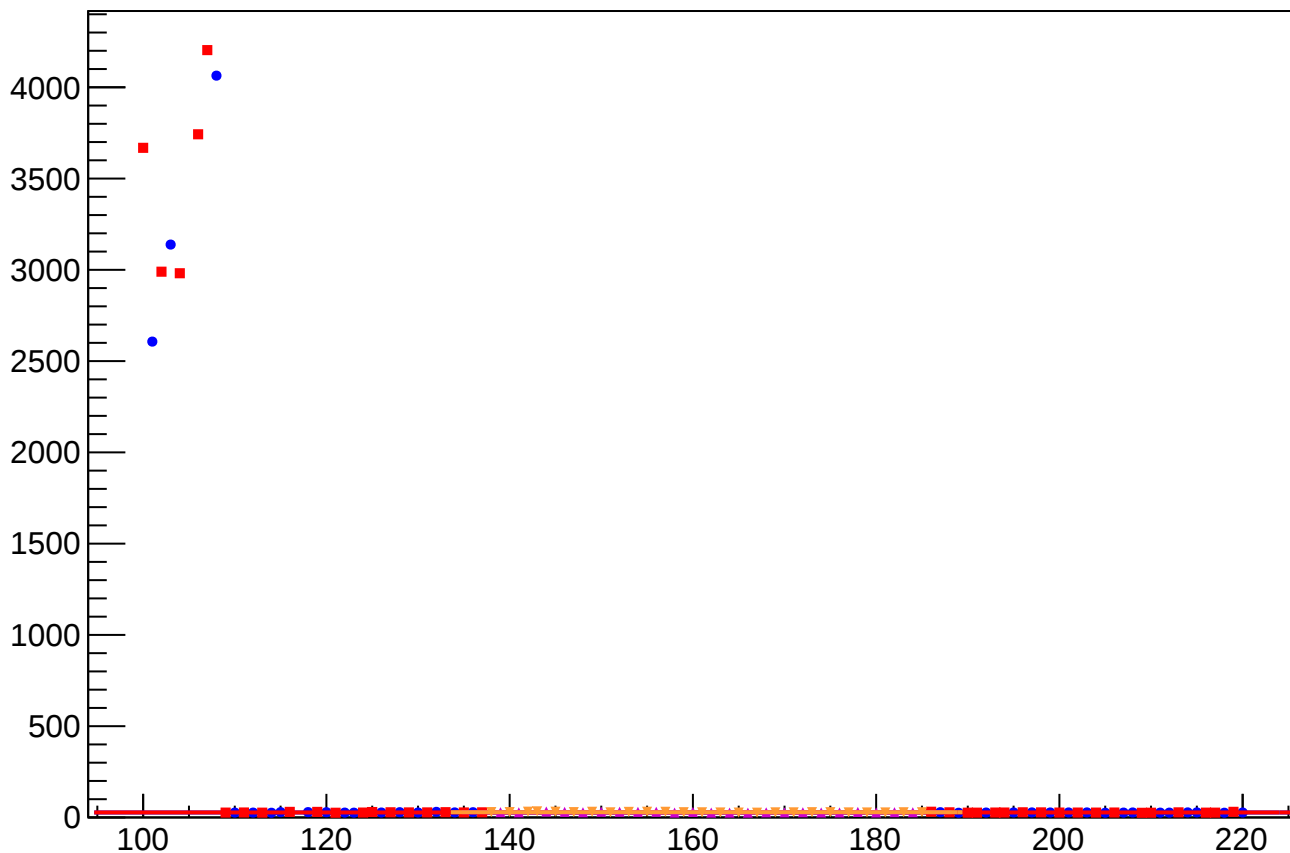
Right: 5.799+/-4.623 χ^2/NDF : 79.4/70

In: 2.532+/-4.752 χ^2/NDF : 71.3/56

Out: -4.418+/-4.696 χ^2/NDF : 56.6/61

All: -0.984+/-3.340 χ^2/NDF : 129.0/118

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 27.259+/-0.005 χ^2/NDF : 3055648.9/33

Left Out: 28.814+/-0.005 χ^2/NDF :122153.6/24

Right Out: 27.412+/-0.005 χ^2/NDF : 3541232.8/36

Left In: 28.797+/-0.005 χ^2/NDF :128279.2/22

Left: 28.806+/-0.003 χ^2/NDF : 250439.0/47

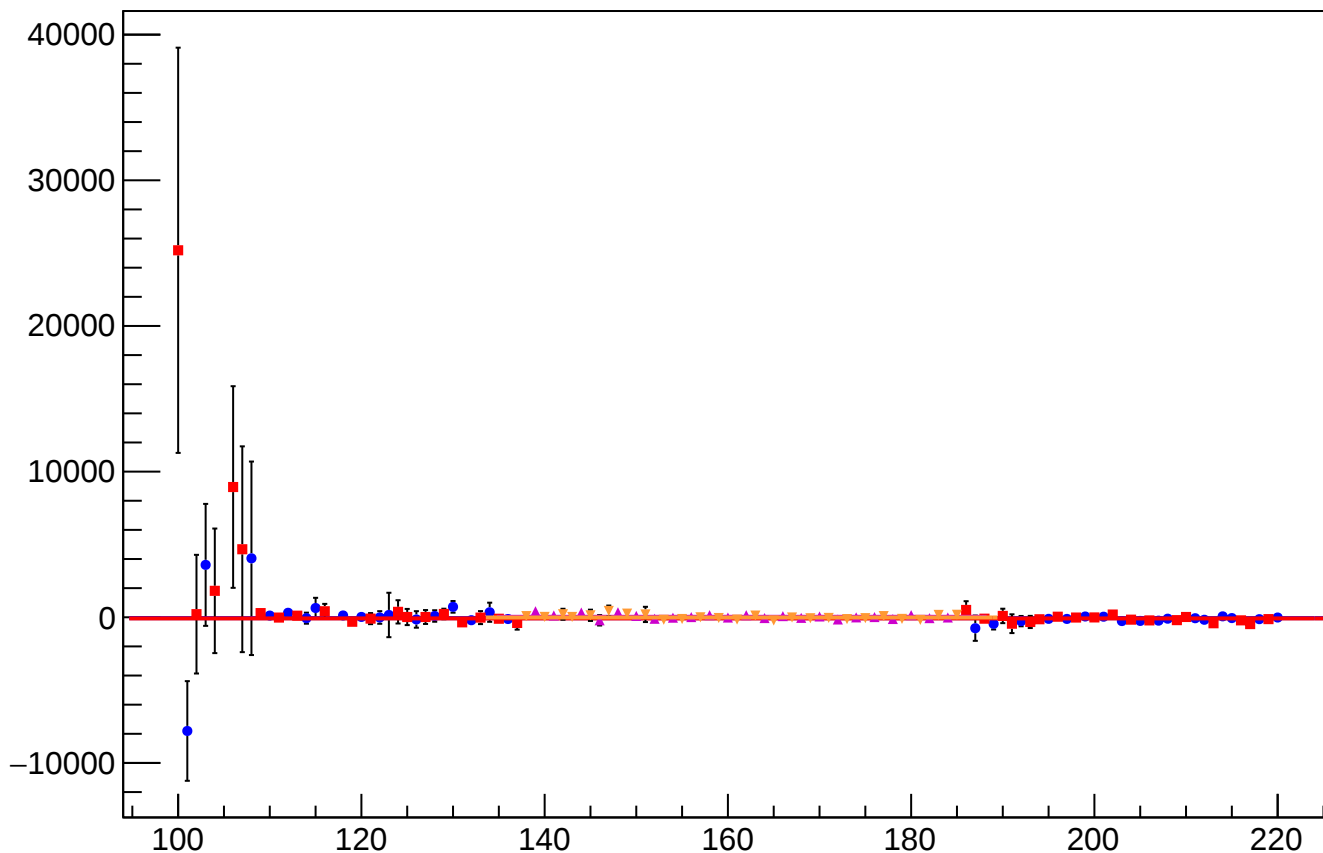
Right: 27.335+/-0.003 χ^2/NDF : 6597431.5/70

In: 27.981+/-0.003 χ^2/NDF :3236148.6/56

Out: 28.094+/-0.003 χ^2/NDF :3707928.1/61

All: 28.038+/-0.002 χ^2/NDF : 6944654.5/118

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs Slug, Sign Corrected



Right In: -58.499 $\pm$ 43.385 χ^2 /NDF: 22.7/33

Left Out: -13.966 $\pm$ 48.735 χ^2 /NDF: 8.1/24

Right Out: -78.947 $\pm$ 43.969 χ^2 /NDF: 24.3/36

Left In: 31.477 $\pm$ 46.483 χ^2 /NDF: 7.8/22

Left: 9.830 $\pm$ 33.637 χ^2 /NDF: 16.4/47

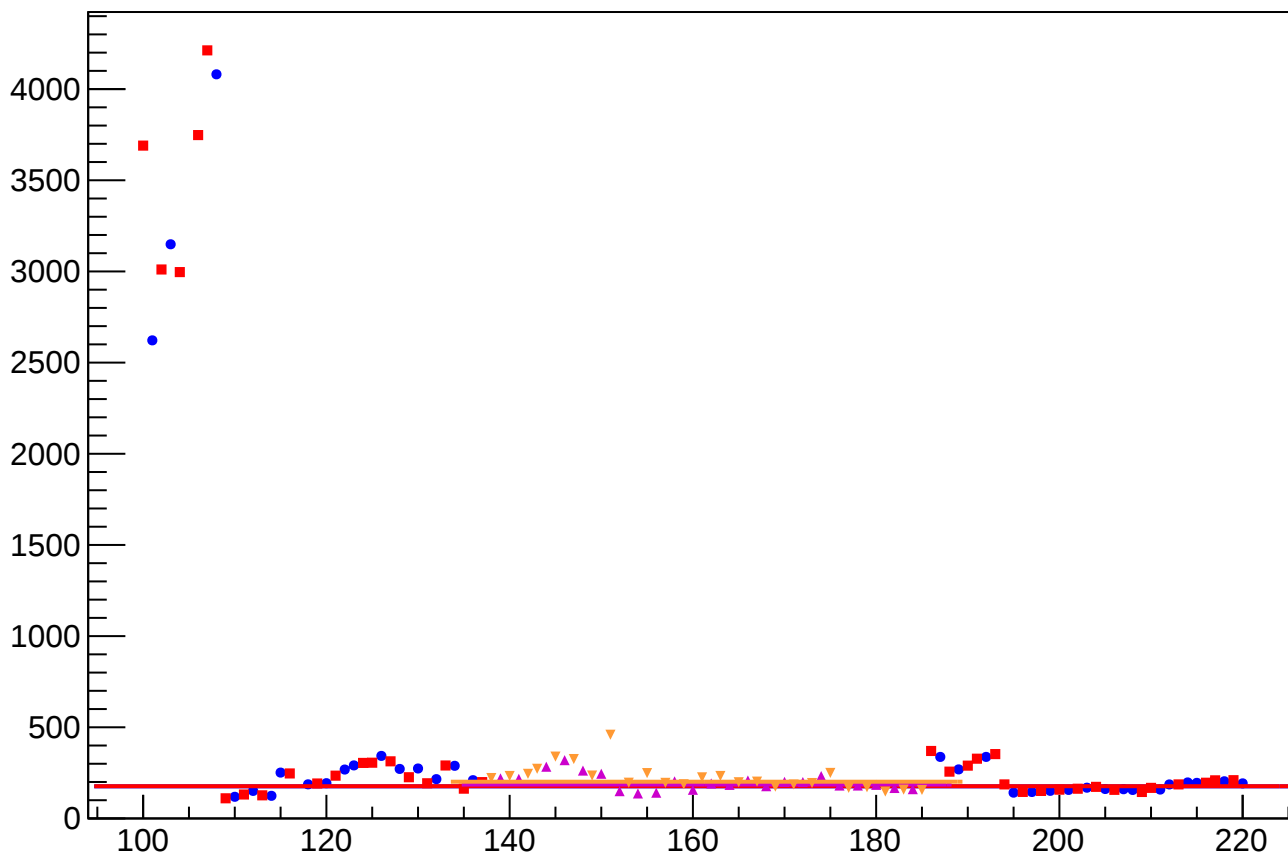
Right: -68.586 $\pm$ 30.882 χ^2 /NDF: 47.1/70

In: -16.609 $\pm$ 31.717 χ^2 /NDF: 32.6/56

Out: -49.788 $\pm$ 32.646 χ^2 /NDF: 33.4/61

All: -32.719 $\pm$ 22.749 χ^2 /NDF: 66.5/118

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs Slug, Sign Corrected



Right In: 176.011+/-0.031 χ^2/NDF : 4590508.1/33

Left Out: 201.503+/-0.034 χ^2/NDF : 1854905.1/24

Right Out: 176.827+/-0.031 χ^2/NDF : 5459015.1/36

Left In: 185.878+/-0.033 χ^2/NDF : 1380877.6/22

Left: 193.321+/-0.024 χ^2/NDF : 3343425.2/47

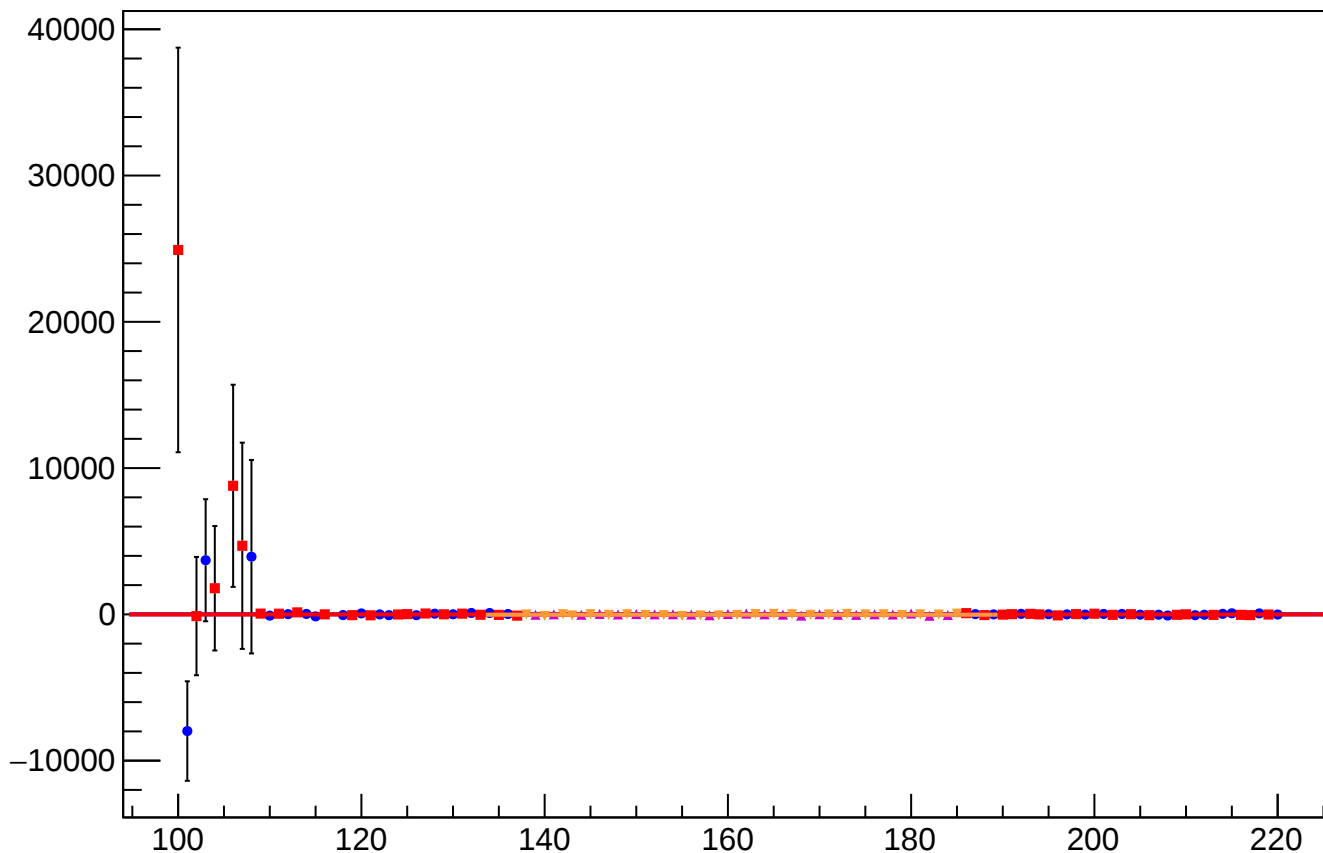
Right: 176.414+/-0.022 χ^2/NDF : 10049872.6/70

In: 180.605+/-0.022 χ^2/NDF : 6019552.9/56

Out: 187.900+/-0.023 χ^2/NDF : 7596565.6/61

All: 184.147+/-0.016 χ^2/NDF : 13667491.8/13

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected



Right In: 5.176+/-7.954 χ^2/NDF : 36.8/33

Left Out: -24.144+/-8.076 χ^2/NDF : 24.9/24

Right Out: -6.441+/-7.983 χ^2/NDF : 37.9/36

Left In: -5.924+/-8.340 χ^2/NDF : 21.0/22

Left: -15.326+/-5.802 χ^2/NDF : 48.4/47

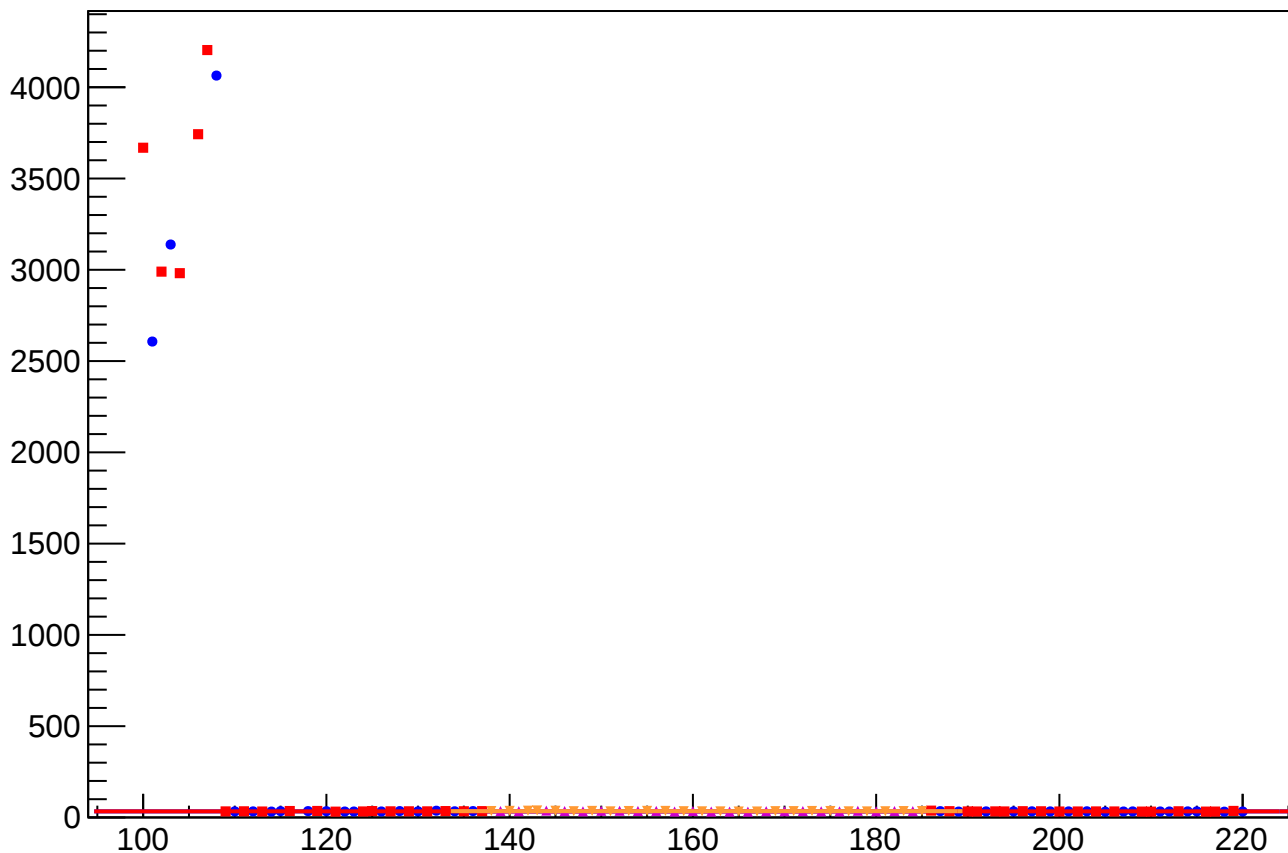
Right: -0.612+/-5.635 χ^2/NDF : 75.8/70

In: -0.112+/-5.756 χ^2/NDF : 58.8/56

Out: -15.189+/-5.678 χ^2/NDF : 65.3/61

All: -7.754+/-4.042 χ^2/NDF : 127.5/118

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected



Right In: 33.265 $\pm$ 0.006 χ^2 /NDF: 3024881.4/33

Left Out: 34.617 $\pm$ 0.006 χ^2 /NDF: 57868.4/24

Right Out: 33.442 $\pm$ 0.006 χ^2 /NDF: 3485496.4/36

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

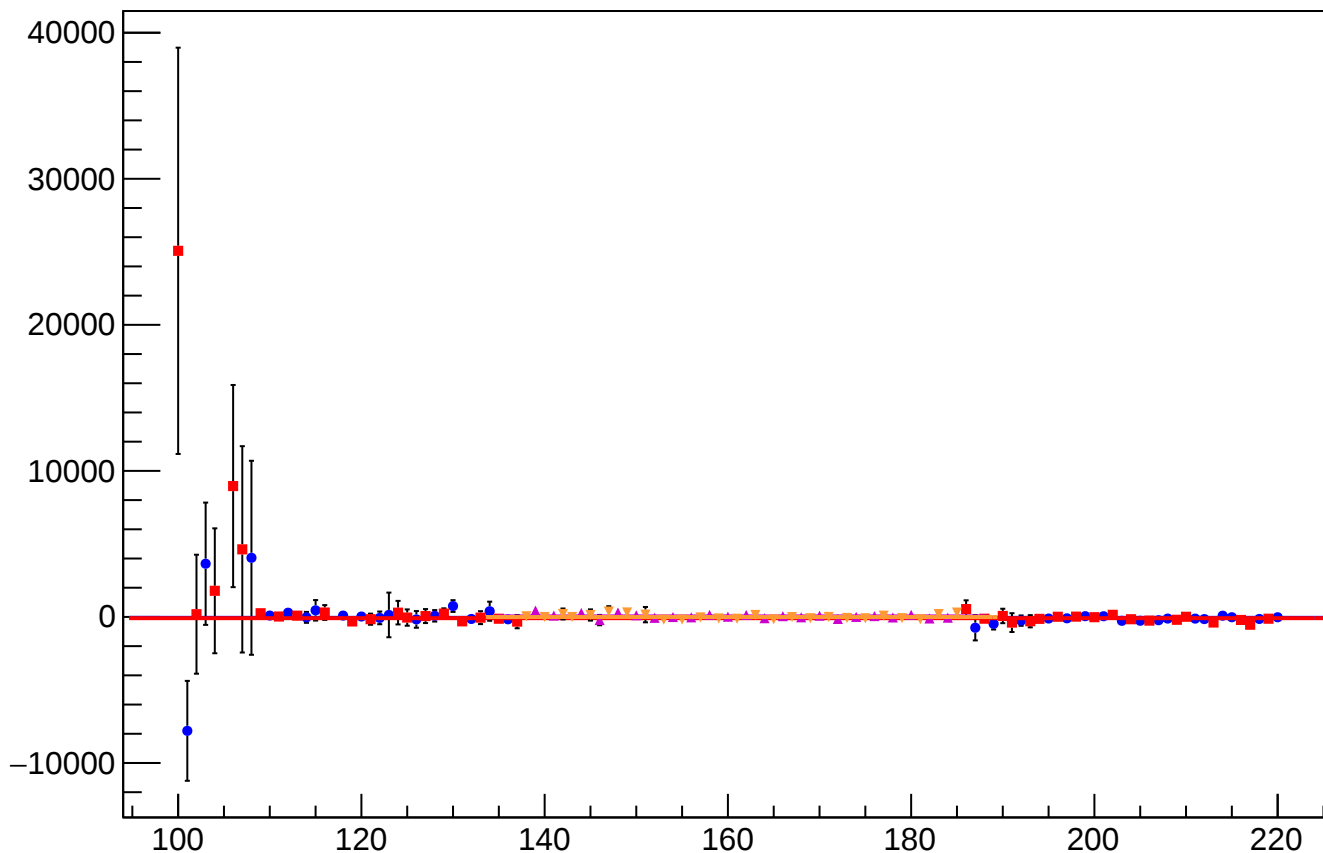
Right: 33.353 $\pm$ 0.004 χ^2 /NDF: 6510869.9/70

In: 33.940 $\pm$ 0.004 χ^2 /NDF: 3114951.1/56

Out: 34.023 $\pm$ 0.004 χ^2 /NDF: 3564813.5/61

All: 33.982 $\pm$ 0.003 χ^2 /NDF: 6679975.0/118

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs Slug, Sign Corrected



Right In: -62.238 $\pm$ 43.263 χ^2 /NDF: 22.5/33

Left Out: -7.558 $\pm$ 48.662 χ^2 /NDF:8.8/24

Right Out: -84.807 $\pm$ 43.812 χ^2 /NDF: 23.6/36

Left In: 34.977 $\pm$ 46.421 χ^2 /NDF:7.1/22

Left: 14.712 $\pm$ 33.589 χ^2 /NDF: 16.3/47

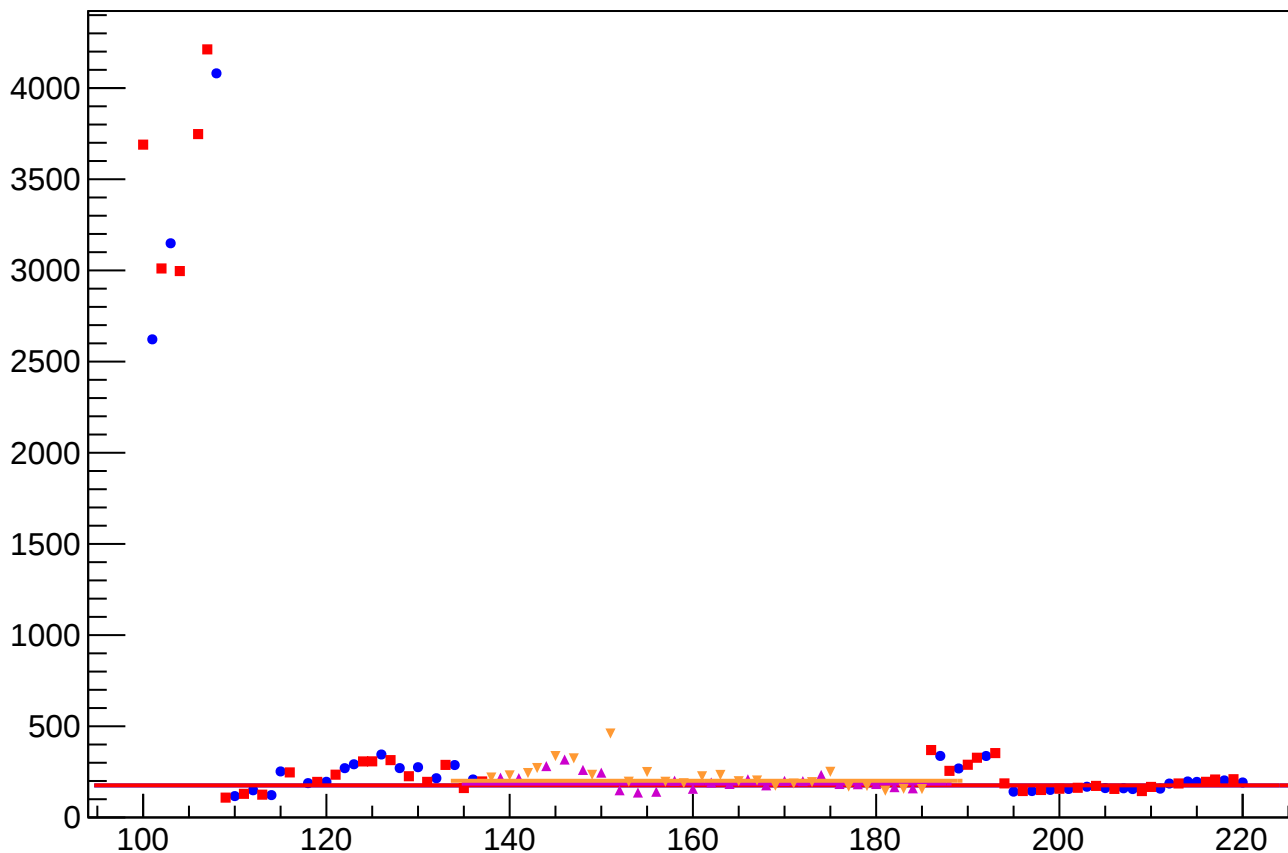
Right: -73.380 $\pm$ 30.784 χ^2 /NDF: 46.2/70

In: -17.049 $\pm$ 31.649 χ^2 /NDF:31.9/56

Out: -50.223 $\pm$ 32.560 χ^2 /NDF:33.7/61

All: -33.165 $\pm$ 22.694 χ^2 /NDF: 66.2/118

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected



Right In: 175.441 $\pm$ 0.031 χ^2 /NDF: 4620354.4/33

Left Out: 201.198 $\pm$ 0.034 χ^2 /NDF: 1848437.4/24

Right Out: 176.053 $\pm$ 0.031 χ^2 /NDF: 5508919.1/36

Left In: 185.627 $\pm$ 0.033 χ^2 /NDF: 1371411.2/22

Left: 193.046 $\pm$ 0.024 χ^2 /NDF: 3327061.1/47

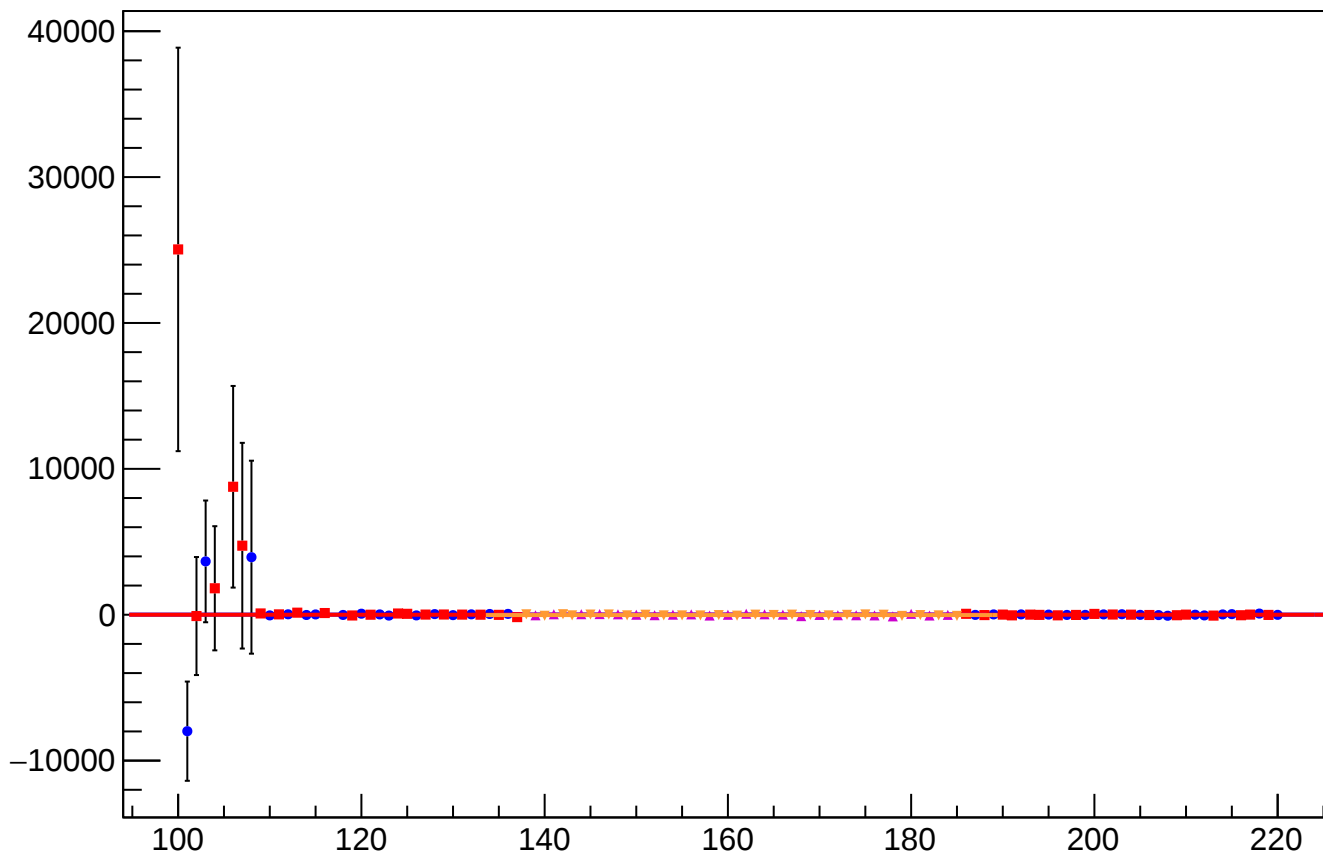
Right: 175.743 $\pm$ 0.022 χ^2 /NDF: 10129470.9/70

In: 180.176 $\pm$ 0.022 χ^2 /NDF: 6043303.1/56

Out: 187.310 $\pm$ 0.023 χ^2 /NDF: 7652304.2/61

All: 183.642 $\pm$ 0.016 χ^2 /NDF: 13744980.9/137

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected



Right In: 8.125 ± 7.193 χ^2/NDF : 31.0/33

Left Out: -23.320 ± 7.352 χ^2/NDF : 18.3/24

Right Out: 0.531 ± 7.223 χ^2/NDF : 42.7/36

Left In: -6.386 ± 7.577 χ^2/NDF : 38.7/22

Left: -15.108 ± 5.276 χ^2/NDF : 59.6/47

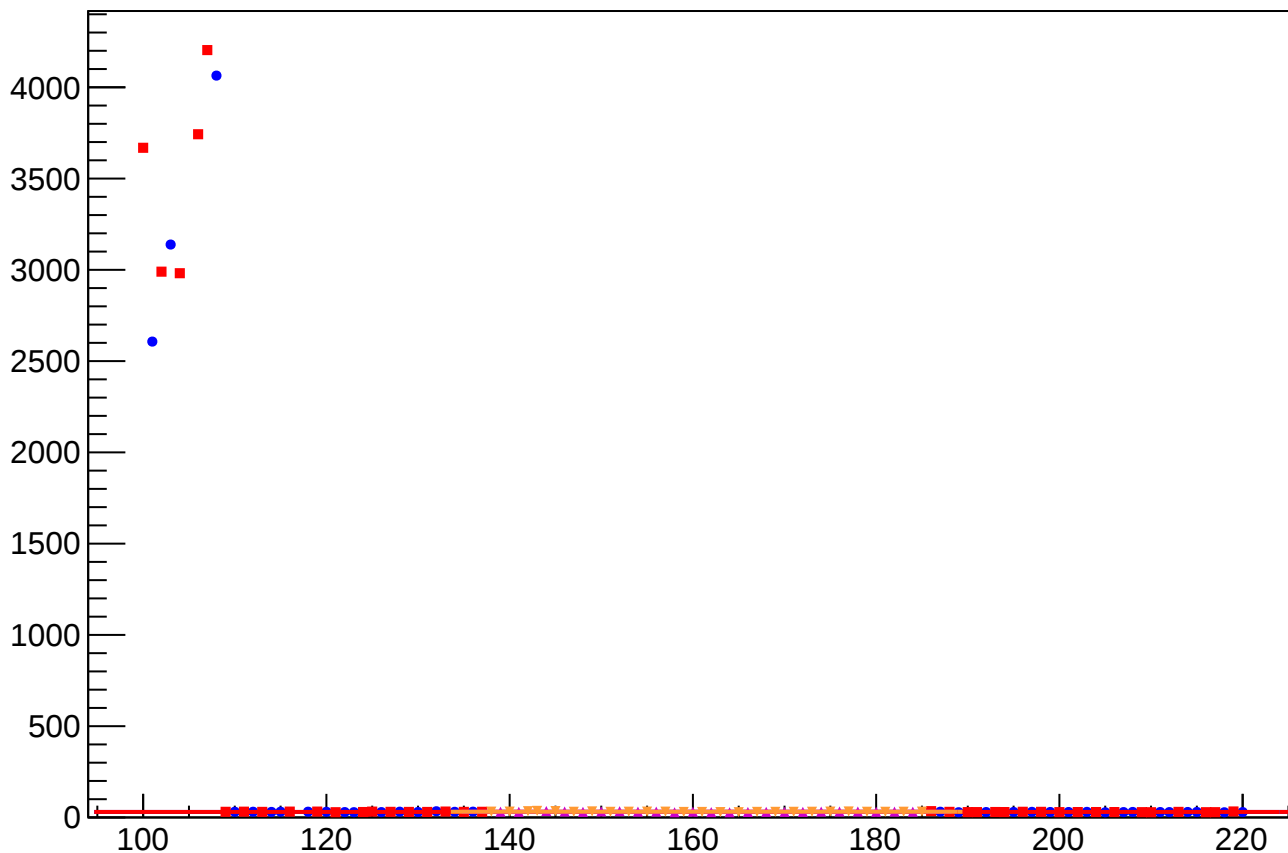
Right: 4.344 ± 5.097 χ^2/NDF : 74.3/70

In: 1.247 ± 5.216 χ^2/NDF : 71.7/56

Out: -11.184 ± 5.152 χ^2/NDF : 66.4/61

All: -5.045 ± 3.666 χ^2/NDF : 140.9/118

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected



Right In: 30.069 $\pm$ 0.005 χ^2 /NDF: 3045450.4/33

Left Out: 31.488 $\pm$ 0.005 χ^2 /NDF: 81938.2/24

Right Out: 30.233 $\pm$ 0.005 χ^2 /NDF: 3508498.8/36

Left In: 31.475 $\pm$ 0.005 χ^2 /NDF: 87797.5/22

Left: 31.482 $\pm$ 0.004 χ^2 /NDF: 169738.8/47

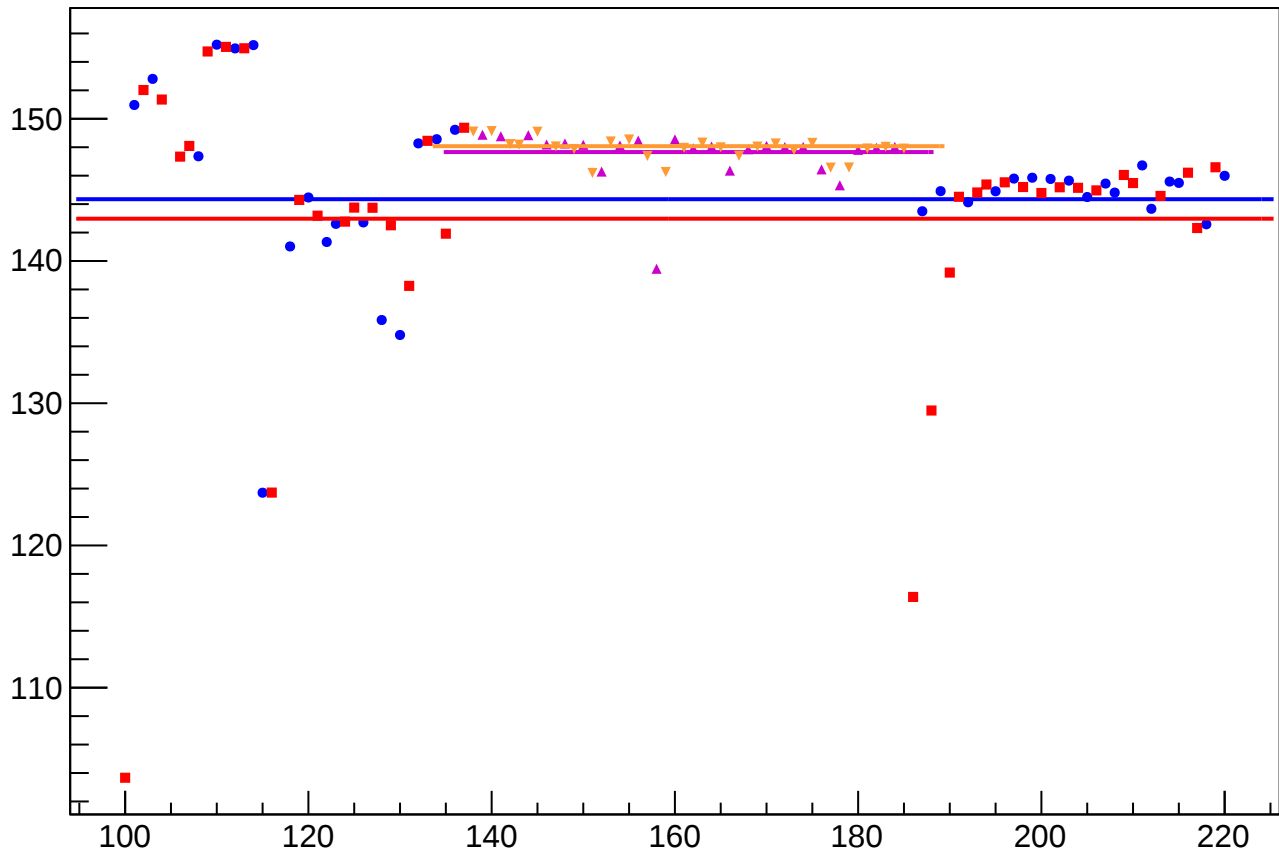
Right: 30.151 $\pm$ 0.004 χ^2 /NDF: 6554465.9/70

In: 30.736 $\pm$ 0.004 χ^2 /NDF: 3169478.2/56

Out: 30.850 $\pm$ 0.004 χ^2 /NDF: 3620106.8/61

All: 30.793 $\pm$ 0.003 χ^2 /NDF: 6790067.9/118

yield_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: 144.346 $\pm$ 0.000 χ^2 /NDF: 3517179371.4/33

Left Out: 148.074 $\pm$ 0.000 χ^2 /NDF: 65673678.9/24

Right Out: 142.975 $\pm$ 0.000 χ^2 /NDF: 7492795511.5/36

Left In: 147.660 $\pm$ 0.000 χ^2 /NDF: 343892338.9/22

Left: 147.875 $\pm$ 0.000 χ^2 /NDF: 417177881.5/47

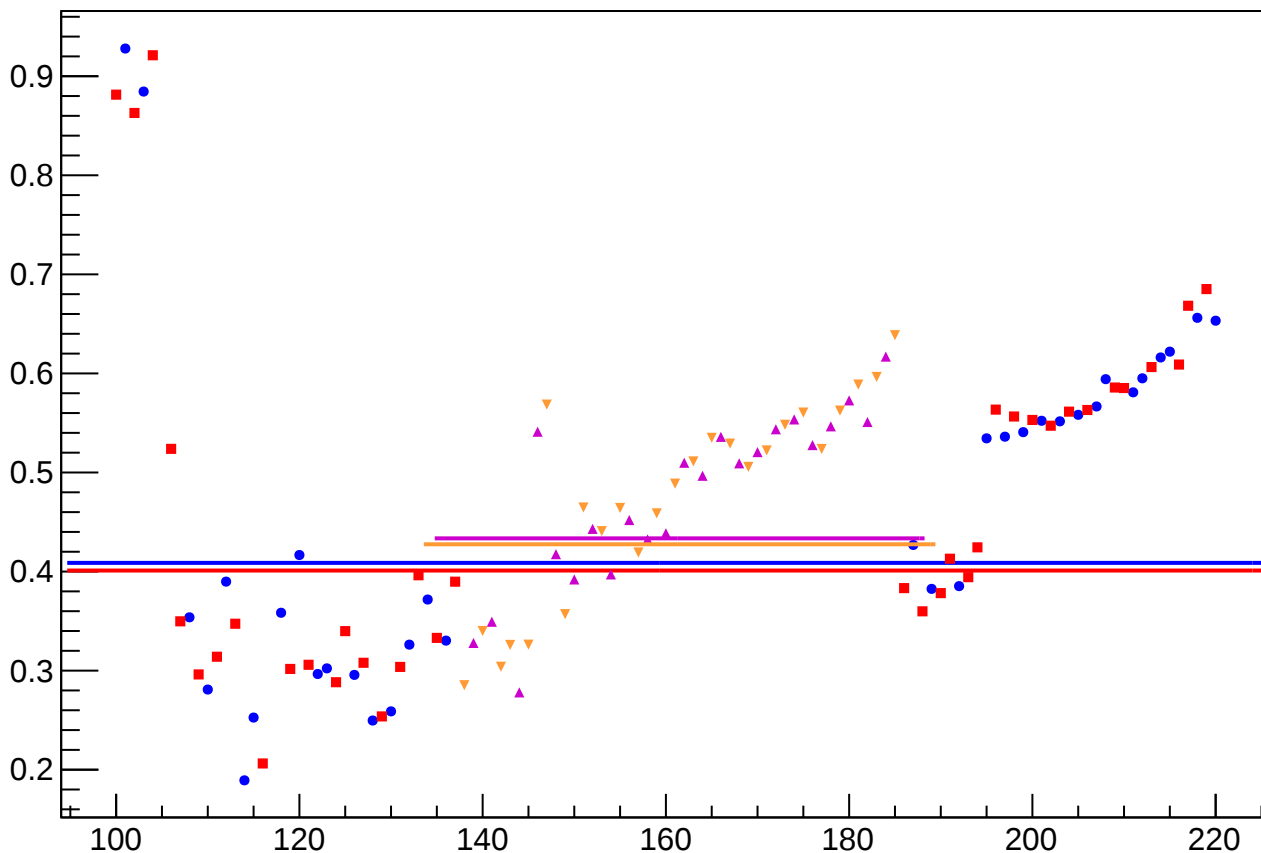
Right: 143.633 $\pm$ 0.000 χ^2 /NDF: 11103985193.6/70

In: 145.909 $\pm$ 0.000 χ^2 /NDF: 4359618086.9/56

Out: 145.376 $\pm$ 0.000 χ^2 /NDF: 8832625029.4/61

All: 145.632 $\pm$ 0.000 χ^2 /NDF: 13219099219.4/117

yield_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 0.409 $\pm$ 0.000 χ^2 /NDF: 4066931.5/33

Left Out: 0.428 $\pm$ 0.000 χ^2 /NDF:1892802.8/24

Right Out: 0.401 $\pm$ 0.000 χ^2 /NDF: 3788881.4/36

Left In: 0.434 $\pm$ 0.000 χ^2 /NDF:1479367.0/22

Left: 0.430 $\pm$ 0.000 χ^2 /NDF: 3375366.2/47

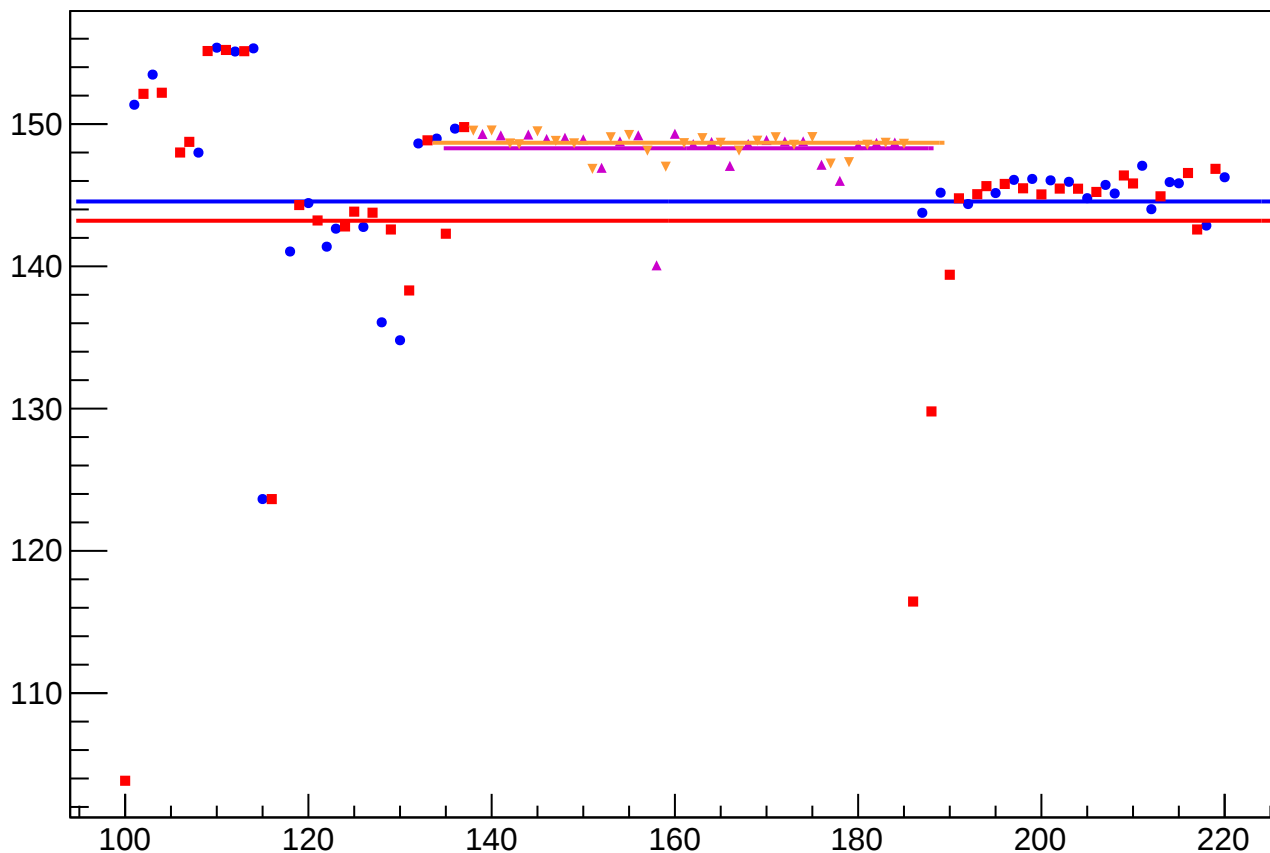
Right: 0.405 $\pm$ 0.000 χ^2 /NDF: 7861774.7/70

In: 0.420 $\pm$ 0.000 χ^2 /NDF:5601847.4/56

Out: 0.414 $\pm$ 0.000 χ^2 /NDF:5750366.0/61

All: 0.417 $\pm$ 0.000 χ^2 /NDF: 11361271.8/118

yield_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: 144.560 $\pm$ 0.000 χ^2 /NDF: 3567964488.7/33

Left Out: 148.687 $\pm$ 0.000 χ^2 /NDF: 52285197.5/24

Right Out: 143.205 $\pm$ 0.000 χ^2 /NDF: 7445560257.7/36

Left In: 148.298 $\pm$ 0.000 χ^2 /NDF: 332527463.6/22

Left: 148.500 $\pm$ 0.000 χ^2 /NDF: 391414535.1/47

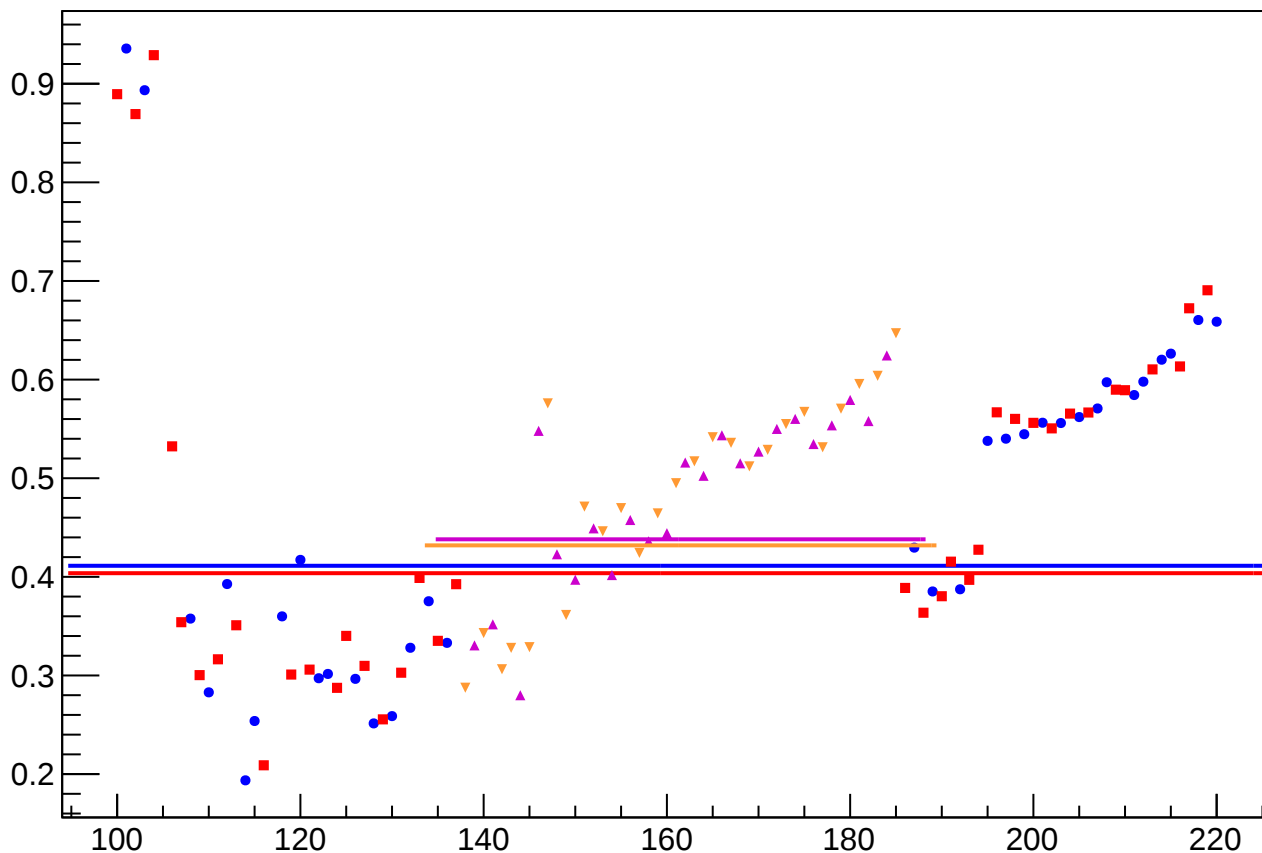
Right: 143.857 $\pm$ 0.000 χ^2 /NDF: 11104183072.3/70

In: 146.314 $\pm$ 0.000 χ^2 /NDF: 4523580778.1/56

Out: 145.775 $\pm$ 0.000 χ^2 /NDF: 8944729215.6/61

All: 146.034 $\pm$ 0.000 χ^2 /NDF: 13495251769.1/112

yield_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 0.411+/-0.000 χ^2/NDF : 4076957.7/33

Left Out: 0.432+/-0.000 χ^2/NDF :1924979.0/24

Right Out: 0.404+/-0.000 χ^2/NDF : 3793867.0/36

Left In: 0.438+/-0.000 χ^2/NDF :1504635.6/22

Left: 0.435+/-0.000 χ^2/NDF : 3432903.3/47

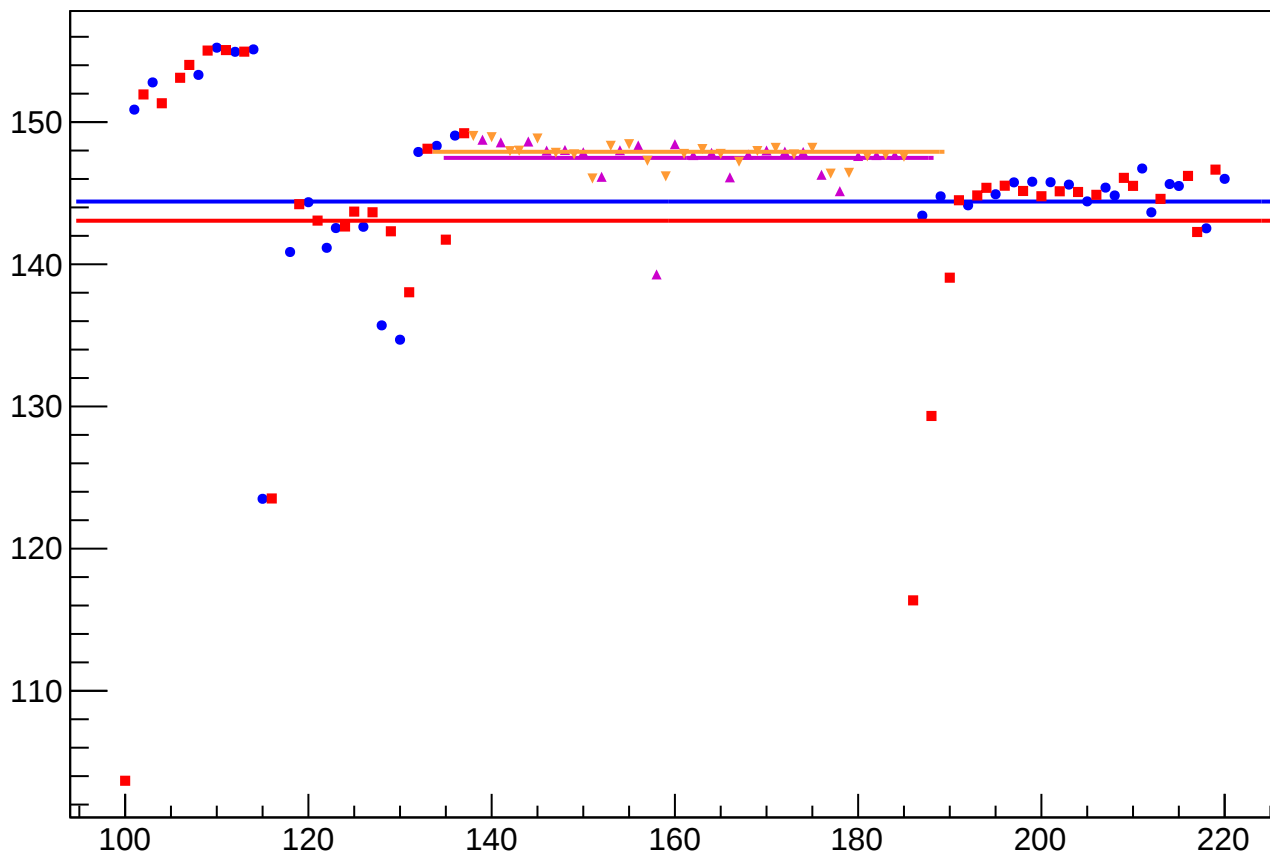
Right: 0.407+/-0.000 χ^2/NDF : 7876396.6/70

In: 0.424+/-0.000 χ^2/NDF :5645825.4/56

Out: 0.417+/-0.000 χ^2/NDF :5795453.0/61

All: 0.420+/-0.000 χ^2/NDF : 11450071.1/118

yield_bcm_an_us_mean vs Slug, Sign Corrected



Right In: 144.413 ± 0.000 $\chi^2/\text{NDF}: 3722665548.5/33$

Left Out: 147.912 ± 0.000 $\chi^2/\text{NDF}: 64463426.1/24$

Right Out: 143.063 ± 0.000 $\chi^2/\text{NDF}: 7865922053.7/36$

Left In: 147.483 ± 0.000 $\chi^2/\text{NDF}: 342674720.4/22$

Left: 147.706 ± 0.000 $\chi^2/\text{NDF}: 415263003.2/47$

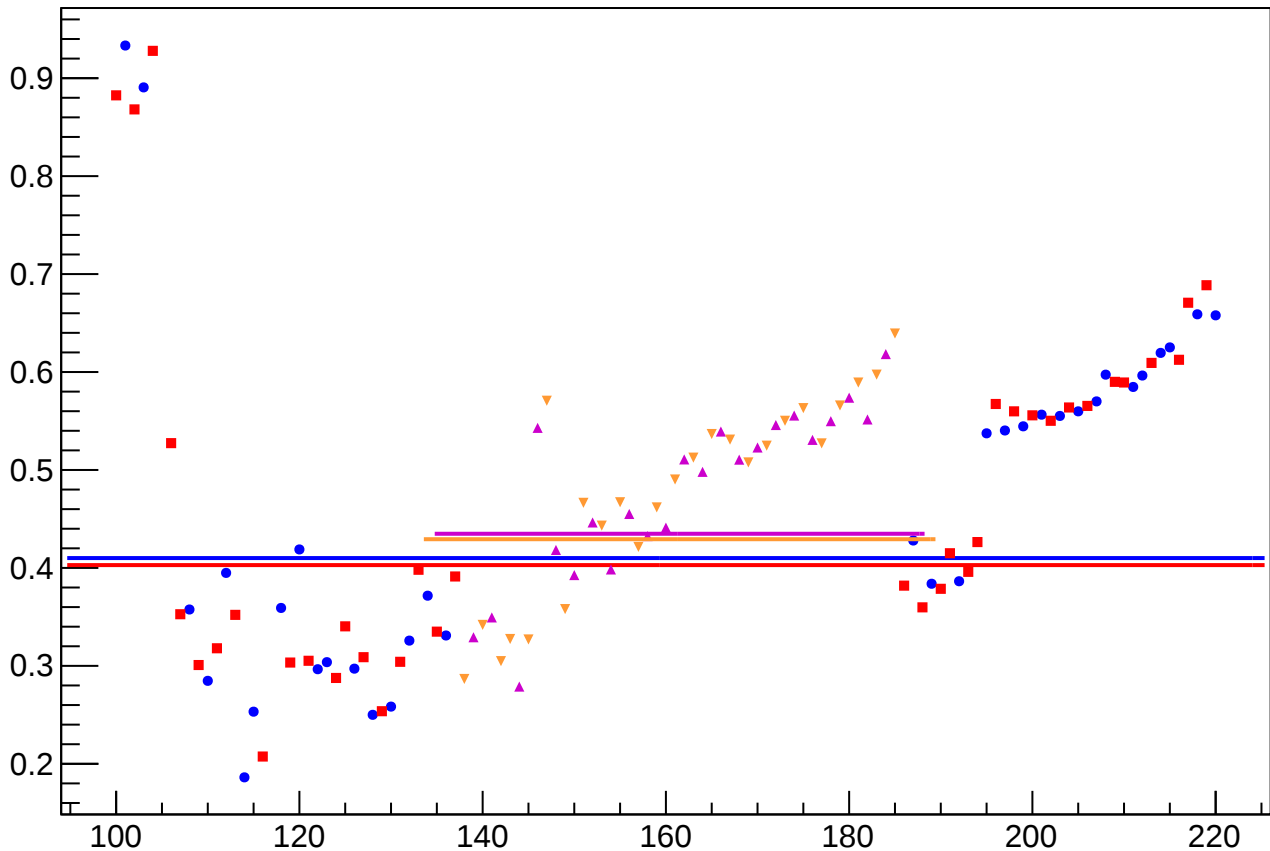
Right: 143.712 ± 0.000 $\chi^2/\text{NDF}: 11678939320.1/70$

In: 145.862 ± 0.000 $\chi^2/\text{NDF}: 4490111437.6/56$

Out: 145.347 ± 0.000 $\chi^2/\text{NDF}: 9072485942.7/61$

All: 145.595 ± 0.000 $\chi^2/\text{NDF}: 13587403269.0/114$

yield_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 0.410+/-0.000 χ^2/NDF : 4109610.9/33

Left Out: 0.429+/-0.000 χ^2/NDF :1891709.3/24

Right Out: 0.403+/-0.000 χ^2/NDF : 3797216.6/36

Left In: 0.435+/-0.000 χ^2/NDF :1485915.1/22

Left: 0.432+/-0.000 χ^2/NDF : 3380372.0/47

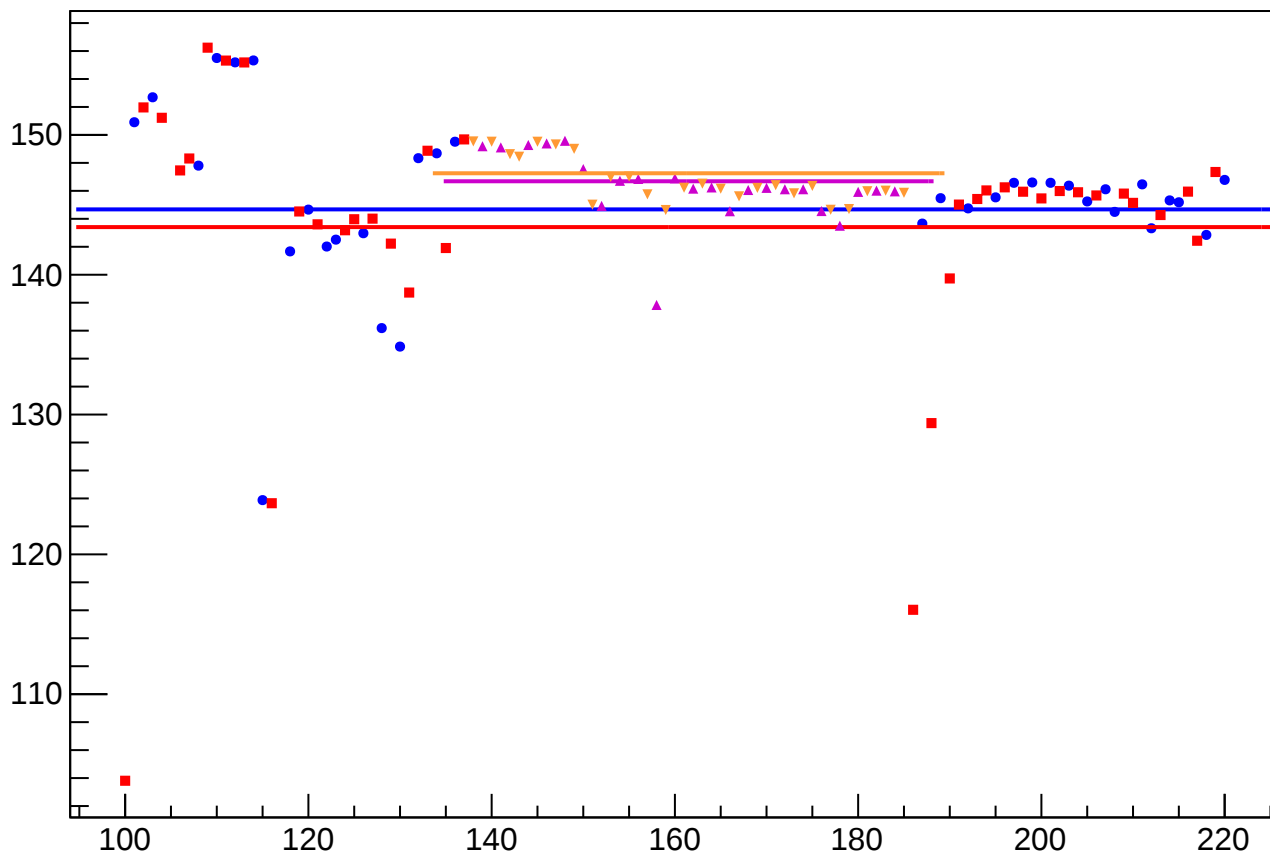
Right: 0.406+/-0.000 χ^2/NDF : 7911940.3/70

In: 0.422+/-0.000 χ^2/NDF :5651035.3/56

Out: 0.415+/-0.000 χ^2/NDF :5756769.9/61

All: 0.418+/-0.000 χ^2/NDF : 11415588.8/118

yield_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: 144.674+/-0.000 χ^2/NDF : 3244082722.8/33

Left Out: 147.257+/-0.000 χ^2/NDF : 261906278.3/24

Right Out: 143.408+/-0.000 χ^2/NDF : 7181441337.0/36

Left In: 146.685+/-0.000 χ^2/NDF : 554922388.0/22

Left: 146.981+/-0.000 χ^2/NDF : 830580031.2/47

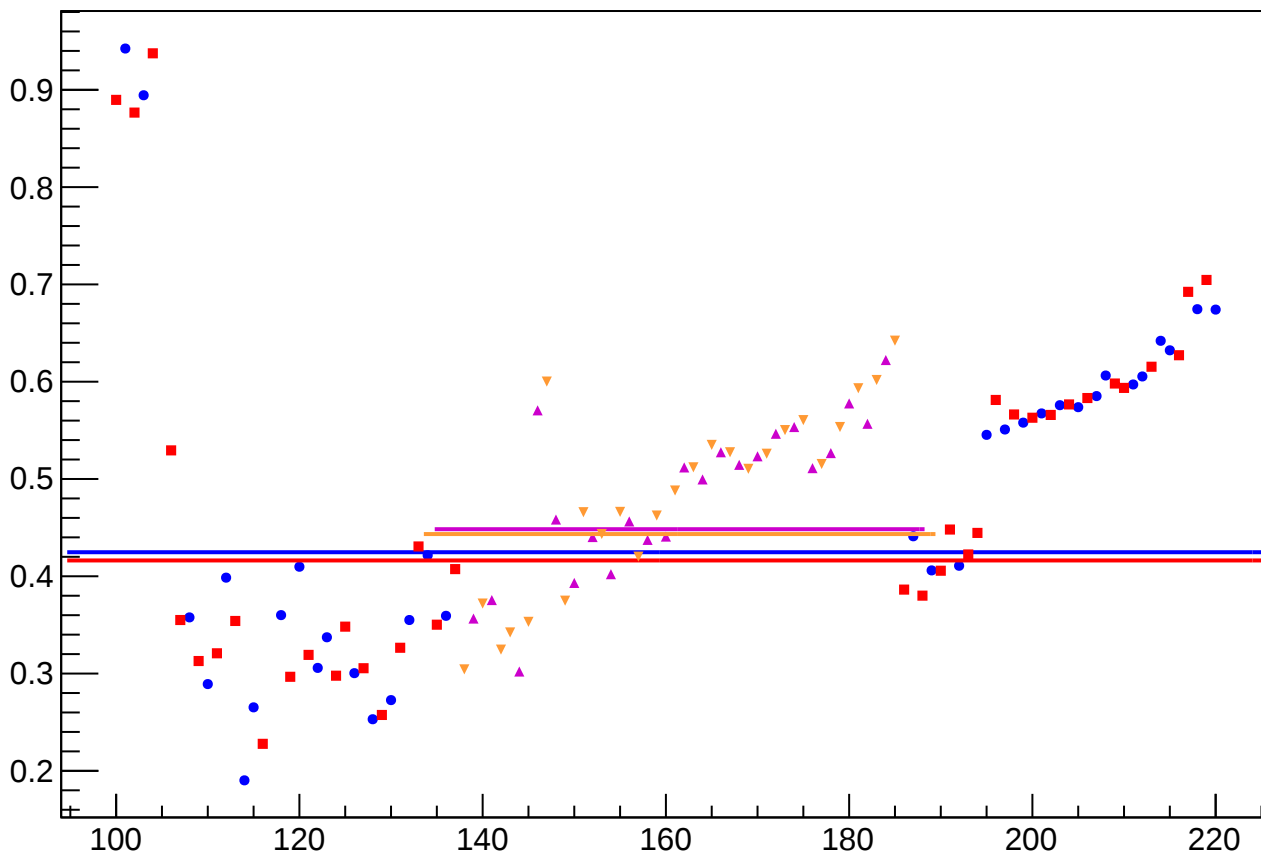
Right: 144.015+/-0.000 χ^2/NDF : 10499873783.0/70

In: 145.632+/-0.000 χ^2/NDF : 3970653629.7/56

Out: 145.231+/-0.000 χ^2/NDF : 8121449387.4/61

All: 145.424+/-0.000 χ^2/NDF : 12106286121.0/110

yield_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 0.425+/-0.000 χ^2/NDF : 3970908.1/33

Left Out: 0.443+/-0.000 χ^2/NDF :1480479.3/24

Right Out: 0.416+/-0.000 χ^2/NDF : 3674580.8/36

Left In: 0.448+/-0.000 χ^2/NDF :1120261.8/22

Left: 0.446+/-0.000 χ^2/NDF : 2602838.0/47

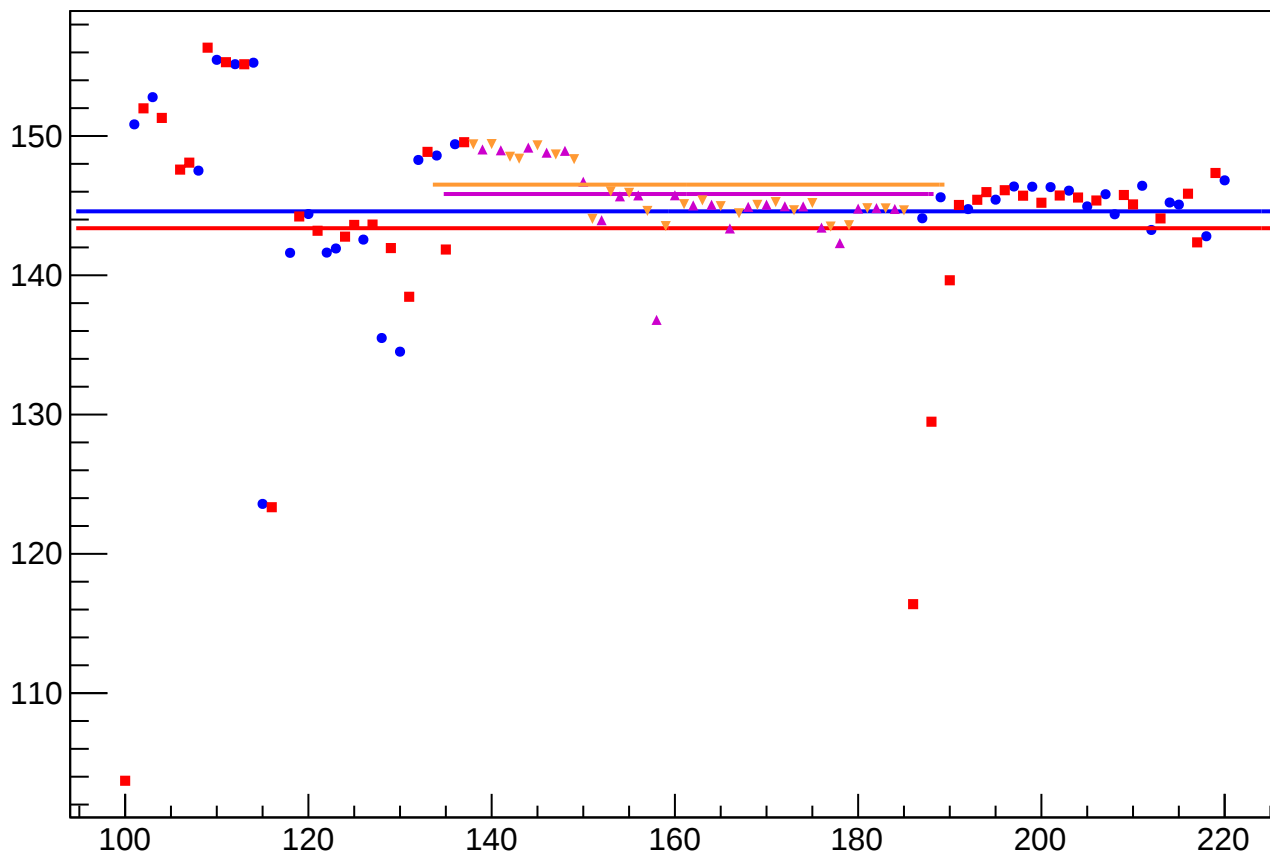
Right: 0.420+/-0.000 χ^2/NDF : 7652119.7/70

In: 0.436+/-0.000 χ^2/NDF :5138717.5/56

Out: 0.429+/-0.000 χ^2/NDF :5222372.2/61

All: 0.432+/-0.000 χ^2/NDF : 10369455.7/118

yield_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: 144.591 $\pm$ 0.000 χ^2 /NDF: 3354340386.1/33

Left Out: 146.508 $\pm$ 0.000 χ^2 /NDF: 401248837.9/24

Right Out: 143.379 $\pm$ 0.000 χ^2 /NDF: 7133174690.9/36

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

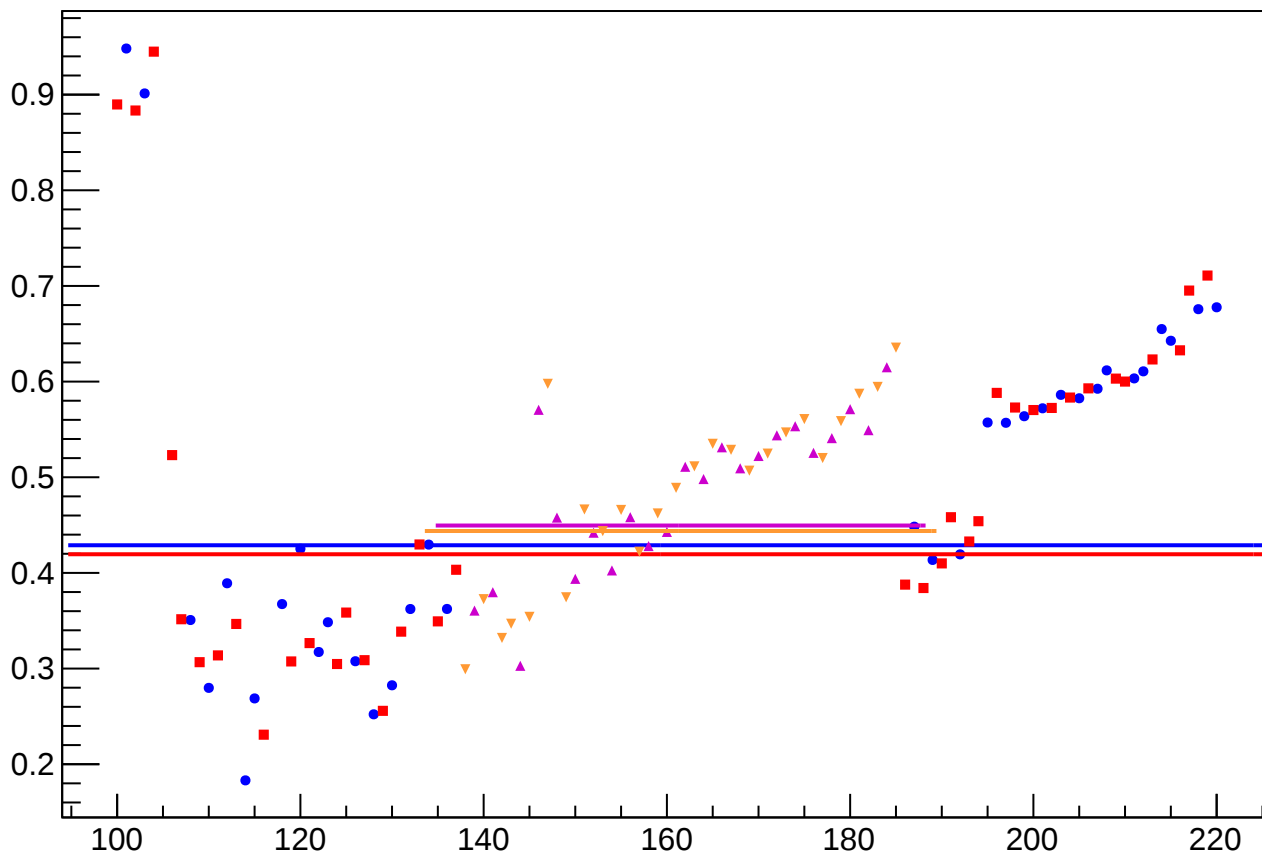
Right: 143.959 $\pm$ 0.000 χ^2 /NDF: 10554116886.5/70

In: 145.189 $\pm$ 0.000 χ^2 /NDF: 4109283895.5/56

Out: 144.874 $\pm$ 0.000 χ^2 /NDF: 7977890963.5/61

All: 145.025 $\pm$ 0.000 χ^2 /NDF: 12095786361.0/110

yield_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 0.429+/-0.000 χ^2/NDF : 4020106.5/33

Left Out: 0.444+/-0.000 χ^2/NDF :1460383.7/24

Right Out: 0.419+/-0.000 χ^2/NDF : 3710204.2/36

Left In: 0.450+/-0.000 χ^2/NDF :1092776.5/22

Left: 0.447+/-0.000 χ^2/NDF : 2555905.8/47

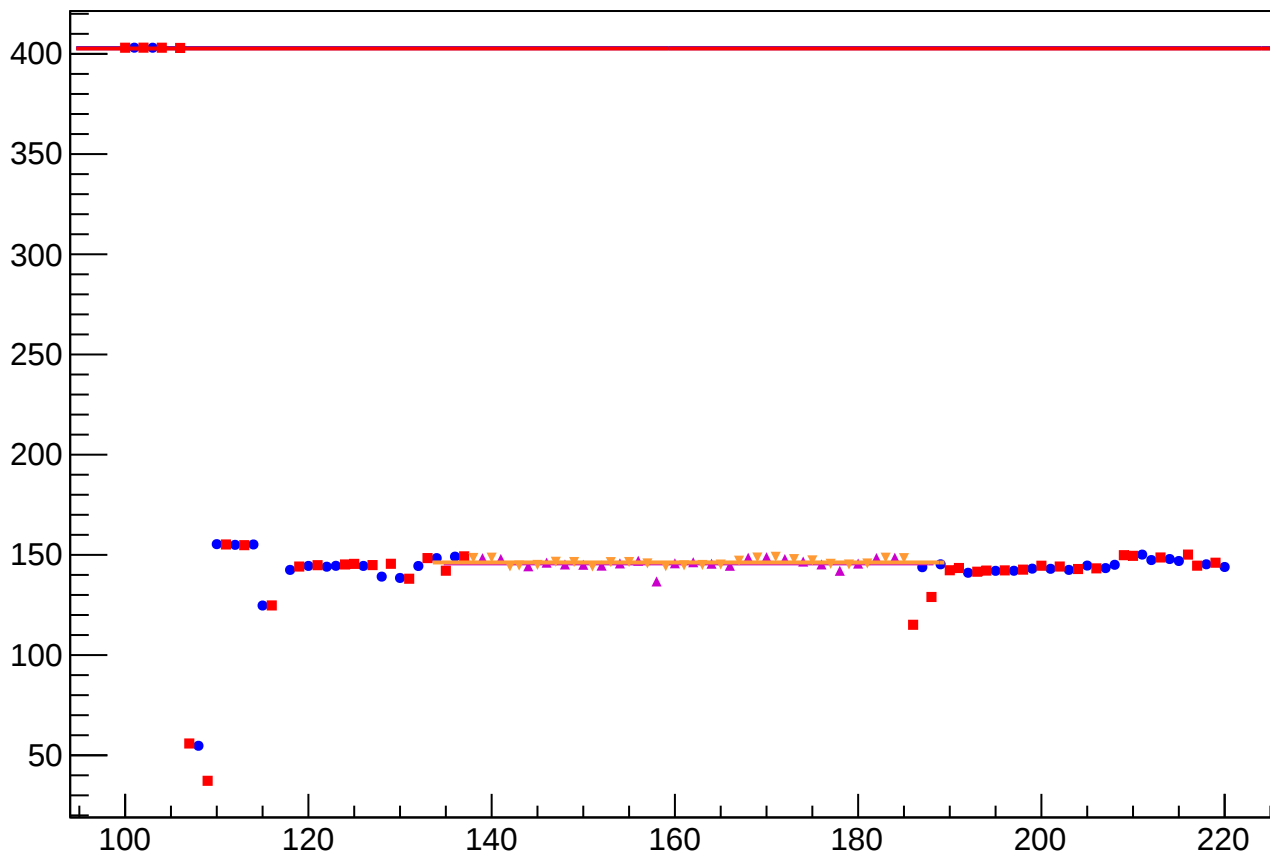
Right: 0.424+/-0.000 χ^2/NDF : 7738353.8/70

In: 0.439+/-0.000 χ^2/NDF :5148508.4/56

Out: 0.431+/-0.000 χ^2/NDF :5224109.7/61

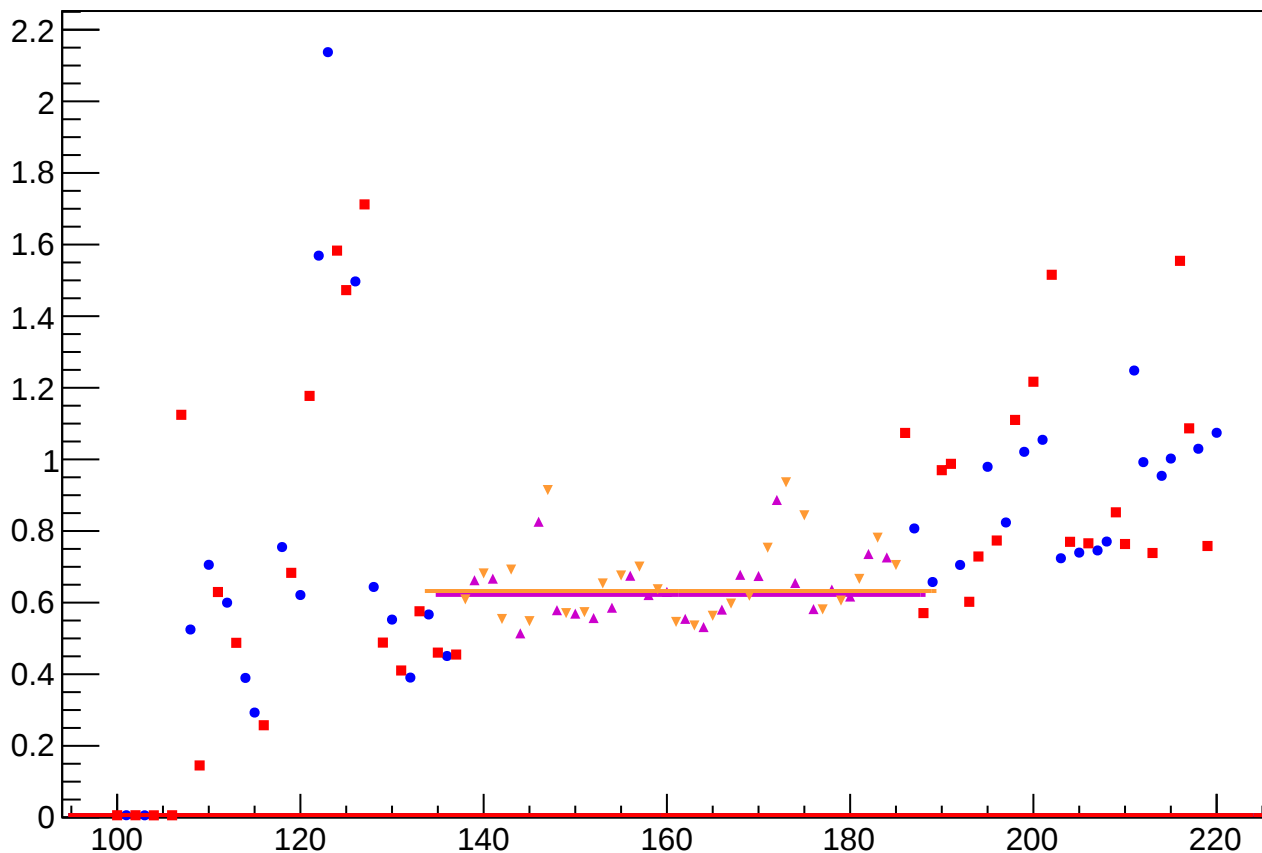
All: 0.435+/-0.000 χ^2/NDF : 10382998.3/118

yield_cav4bQ_mean vs Slug, Sign Corrected



Right In: 402.848 $\pm$ 0.000	χ^2 /NDF: 1978326865688.4/33	Left: 145.987 $\pm$ 0.000	χ^2 /NDF: 295994641.0/47
Left Out: 146.216 $\pm$ 0.000	χ^2 /NDF: 86042286.3/24	Right: 402.758 $\pm$ 0.000	χ^2 /NDF: 6192768363222.2/47
Right Out: 402.678 $\pm$ 0.000	χ^2 /NDF: 4213963413229.5/36	In: 402.557 $\pm$ 0.000	χ^2 /NDF: 4308615532351.7/50
Left In: 145.755 $\pm$ 0.000	χ^2 /NDF: 206171532.0/22	Out: 402.418 $\pm$ 0.000	χ^2 /NDF: 6570440262627.8/60
		All: 402.483 $\pm$ 0.000	χ^2 /NDF: 108793785983.0/100

yield_cav4bQ_rms vs Slug, Sign Corrected



Right In: 0.007 $\pm$ 0.000 χ^2 /NDF: 28688179.1/33

Left Out: 0.632 $\pm$ 0.000 χ^2 /NDF:613604.5/24

Right Out: 0.007 $\pm$ 0.000 χ^2 /NDF: 30491909.0/36

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

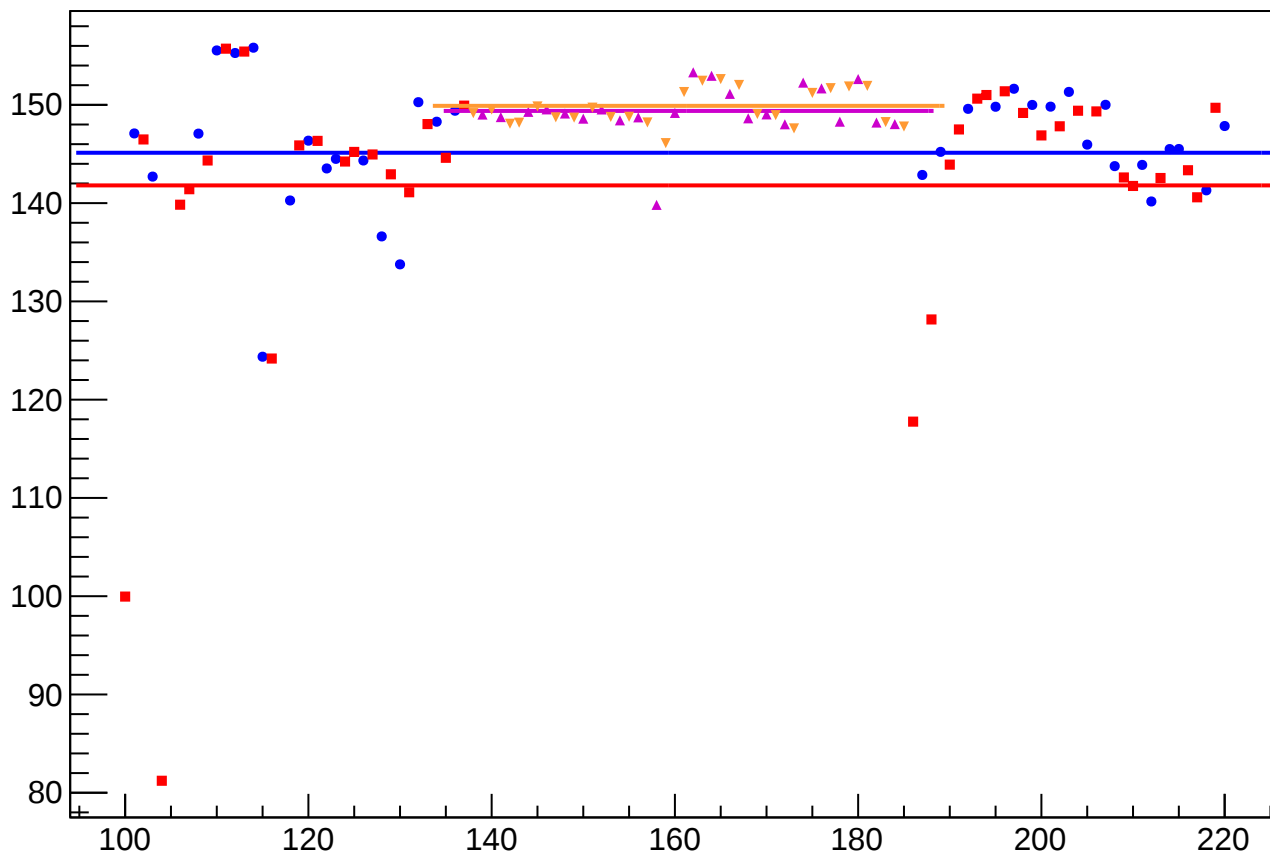
Right: 0.007 $\pm$ 0.000 χ^2 /NDF: 59180090.0/70

In: 0.007 $\pm$ 0.000 χ^2 /NDF:55746921.7/56

Out: 0.007 $\pm$ 0.000 χ^2 /NDF:59159196.2/61

All: 0.007 $\pm$ 0.000 χ^2 /NDF: 114906269.8/118

yield_cav4cQ_mean vs Slug, Sign Corrected



Right In: 145.125 $\pm$ 0.000 χ^2/NDF : 1383996436.8/33

Left Out: 149.900 $\pm$ 0.000 χ^2/NDF : 162845622.6/24

Right Out: 141.803 $\pm$ 0.000 χ^2/NDF : 3337466648.6/36

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

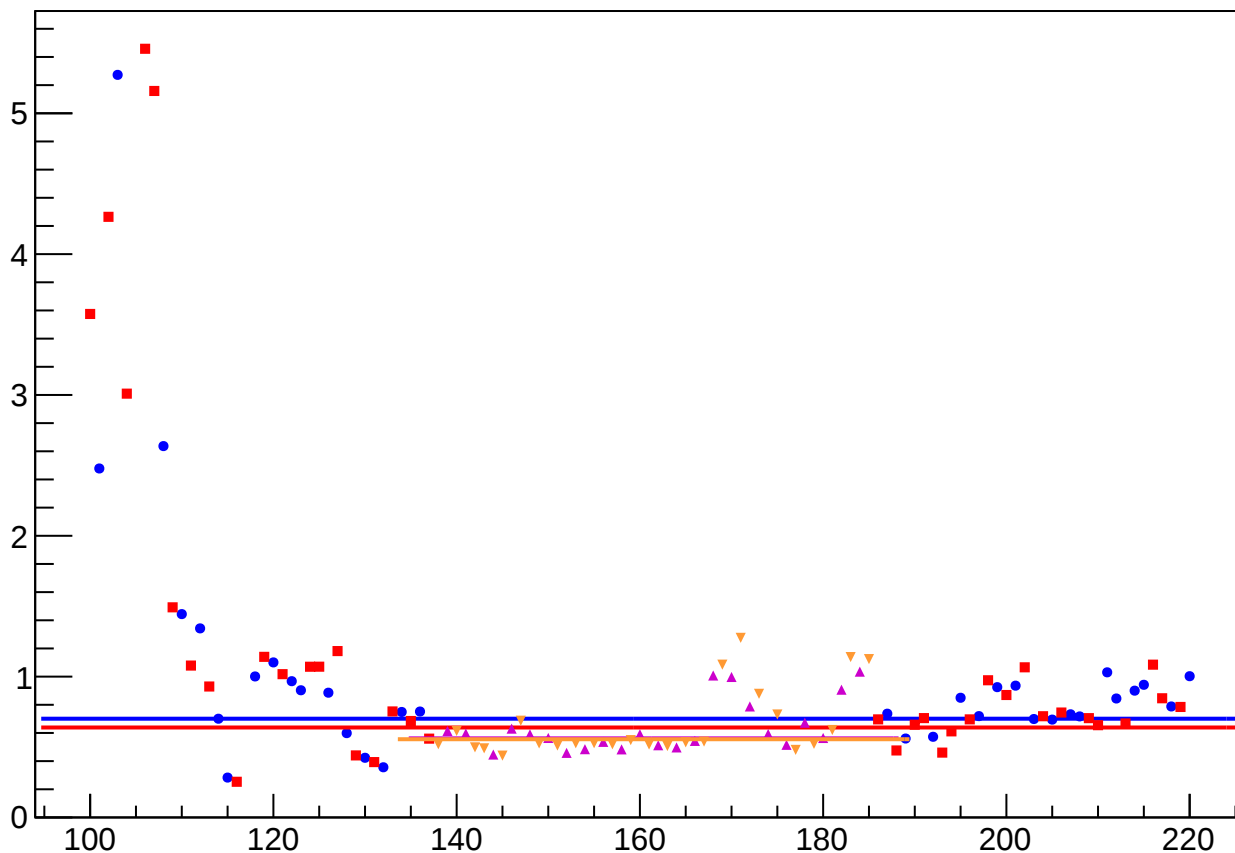
Right: 143.294 $\pm$ 0.000 χ^2/NDF : 4888601485.4/70

In: 147.817 $\pm$ 0.000 χ^2/NDF : 2133482592.4/56

Out: 146.666 $\pm$ 0.000 χ^2/NDF : 4829109251.4/61

All: 147.206 $\pm$ 0.000 χ^2/NDF : 7015194679.0

yield_cav4cQ_rms vs Slug, Sign Corrected



Right In: 0.701 $\pm$ 0.000 χ^2 /NDF: 4539973.8/33

Left Out: 0.555 $\pm$ 0.000 χ^2 /NDF:1773688.1/24

Right Out: 0.639 $\pm$ 0.000 χ^2 /NDF: 5959216.2/36

Left In: 0.562 $\pm$ 0.000 χ^2 /NDF:1305573.4/22

Left: 0.559 $\pm$ 0.000 χ^2 /NDF: 3081194.0/47

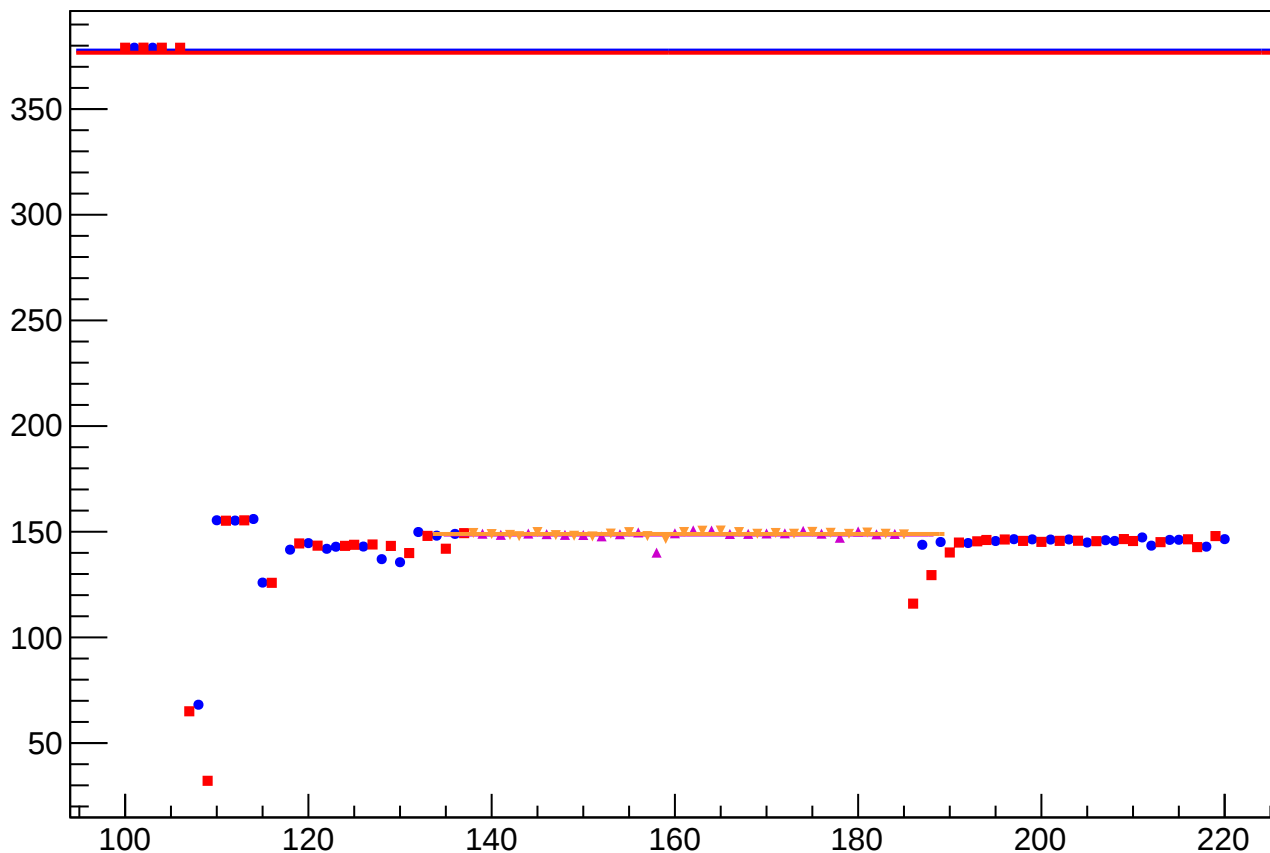
Right: 0.667 $\pm$ 0.000 χ^2 /NDF: 10617309.8/70

In: 0.613 $\pm$ 0.000 χ^2 /NDF:6521406.5/56

Out: 0.589 $\pm$ 0.000 χ^2 /NDF:8014119.1/61

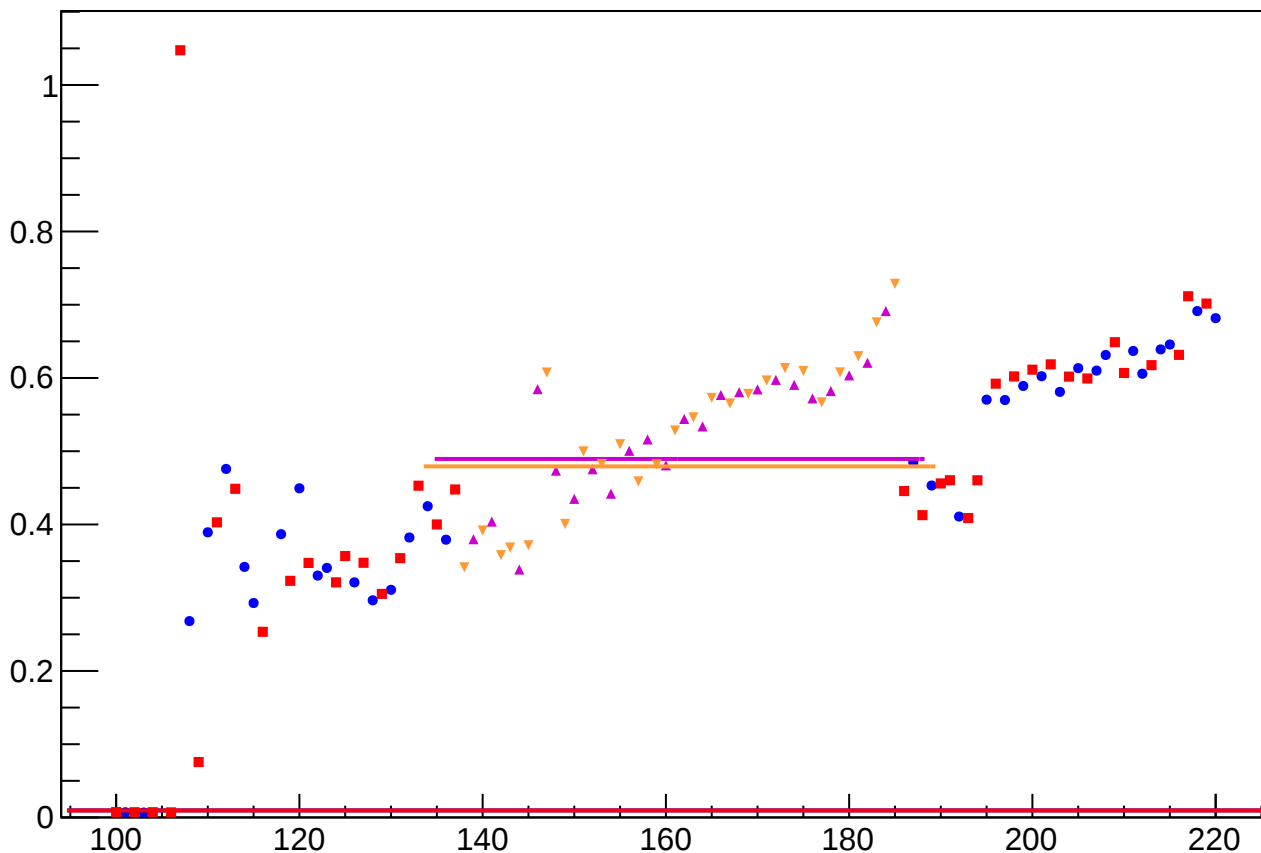
All: 0.600 $\pm$ 0.000 χ^2 /NDF: 14582228.7/118

yield_cav4dQ_mean vs Slug, Sign Corrected



Right In: 377.670+/-0.000	χ^2/NDF : 4407723273808.4/33	Left: 148.814+/-0.000	χ^2/NDF : 319467494.9/47
Left Out: 148.944+/-0.000	χ^2/NDF : 63976941.3/24	Right: 377.136+/-0.000	χ^2/NDF : 14912821314883.9
Right Out: 376.669+/-0.000	χ^2/NDF : 10497970761509.3/36	In: 376.502+/-0.000	χ^2/NDF : 7976380612540.7/50
Left In: 148.672+/-0.000	χ^2/NDF : 252846428.3/22	Out: 375.556+/-0.000	χ^2/NDF : 14353061547229.9
		All: 375.999+/-0.000	χ^2/NDF : 223358385694.9

yield_cav4dQ_rms vs Slug, Sign Corrected



Right In: 0.010+/-0.000 χ^2/NDF : 32896578.7/33

Left Out: 0.479+/-0.000 χ^2/NDF :1516566.1/24

Right Out: 0.010+/-0.000 χ^2/NDF : 33032933.1/36

Left In: 0.489+/-0.000 χ^2/NDF :1076134.2/22

Left: 0.484+/-0.000 χ^2/NDF : 2600075.4/47

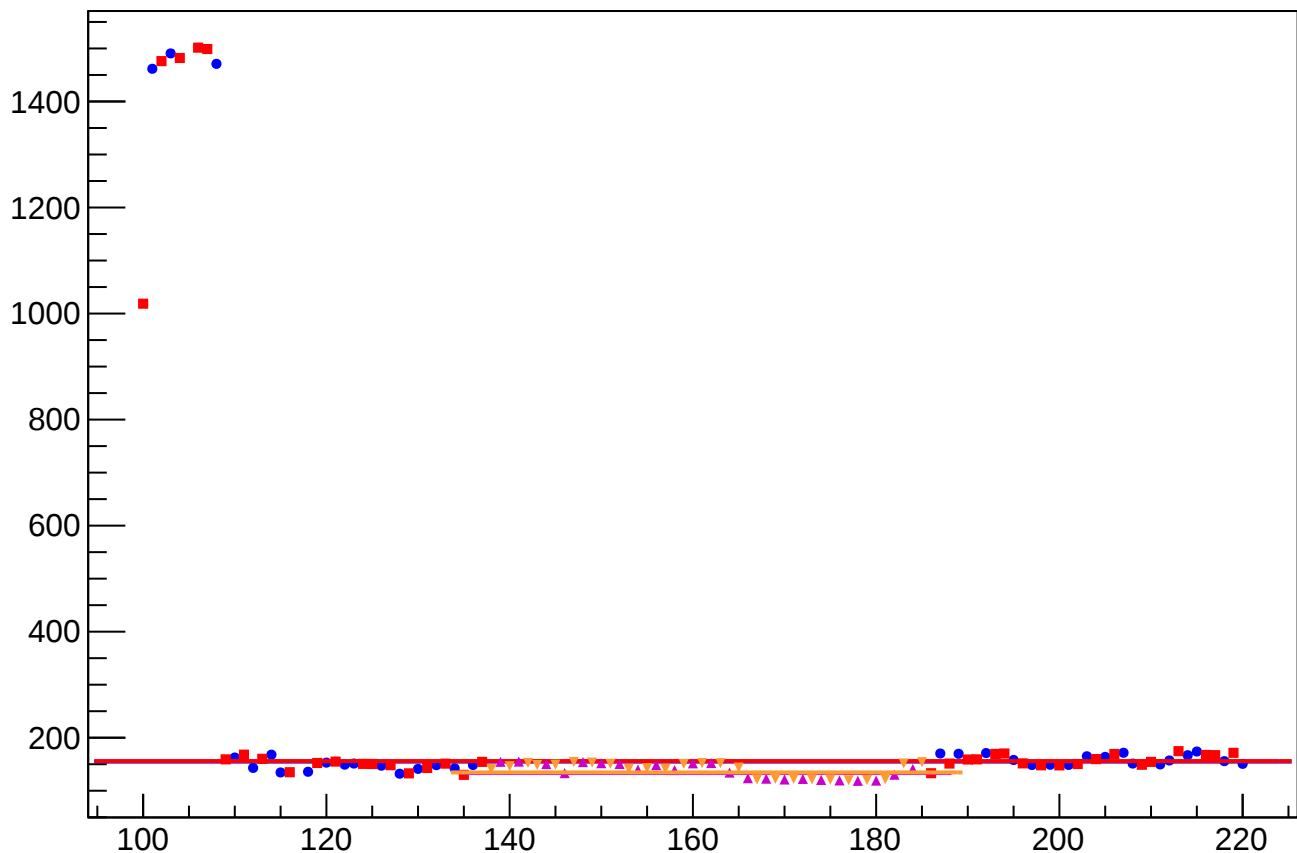
Right: 0.010+/-0.000 χ^2/NDF : 65929580.3/70

In: 0.012+/-0.000 χ^2/NDF :65309089.9/56

Out: 0.012+/-0.000 χ^2/NDF :67357499.6/61

All: 0.012+/-0.000 χ^2/NDF : 132667288.3/118

yield_bcm0l02_mean vs Slug, Sign Corrected



Right In: 155.045+/-0.000 χ^2/NDF : 26204187362.1/33

Left Out: 134.554+/-0.000 χ^2/NDF : 4376966869.3/24

Right Out: 155.858+/-0.000 χ^2/NDF : 35434373341.9/36

Left In: 133.337+/-0.000 χ^2/NDF : 4303812119.2/22

Left: 133.958+/-0.000 χ^2/NDF : 8697951676.8/47

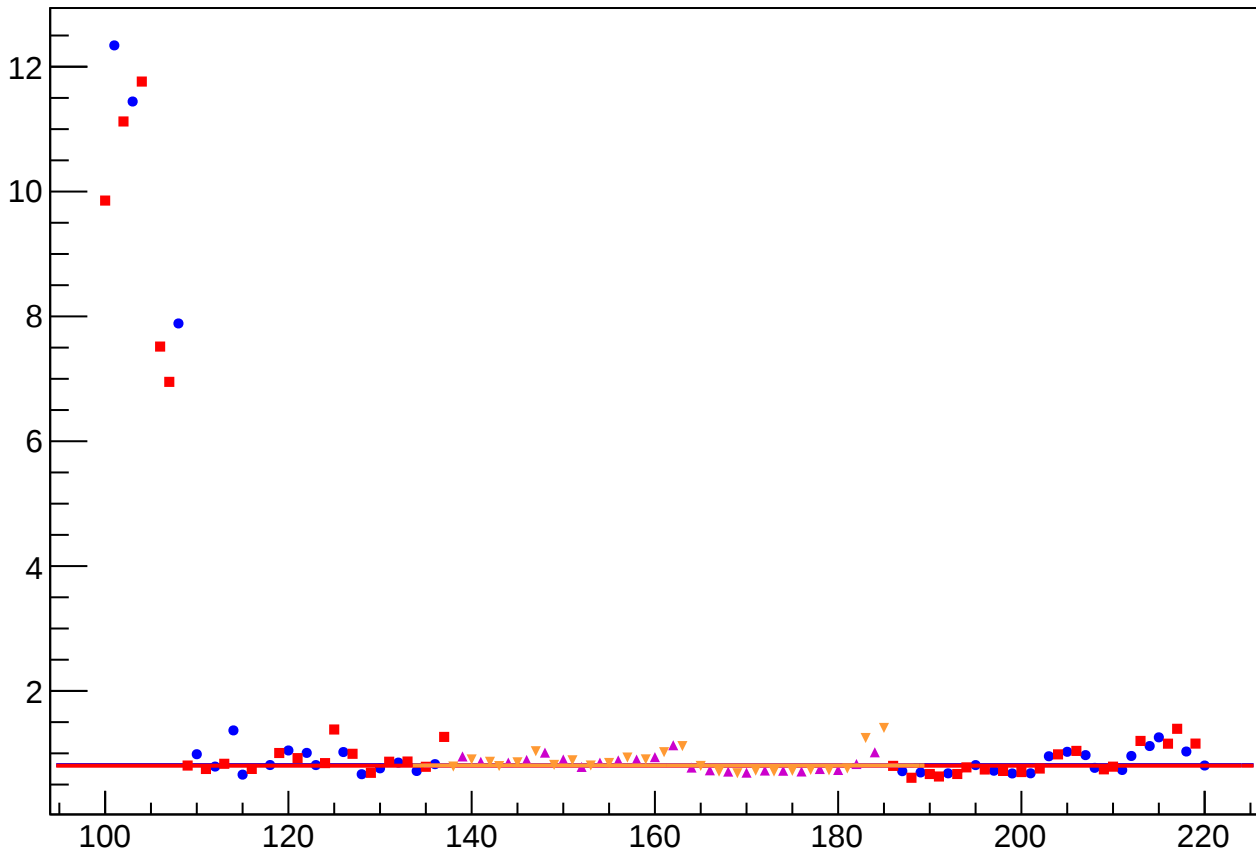
Right: 155.459+/-0.000 χ^2/NDF : 61645752908.1/70

In: 143.853+/-0.000 χ^2/NDF : 35699172907.5/56

Out: 144.845+/-0.000 χ^2/NDF : 45010545272.5/61

All: 144.359+/-0.000 χ^2/NDF : 80731849930.0/111

yield_bcm0l02_rms vs Slug, Sign Corrected



Right In: 0.812 $\pm$ 0.000 χ^2 /NDF: 3362347.5/33

Left Out: 0.806 $\pm$ 0.000 χ^2 /NDF:690578.5/24

Right Out: 0.802 $\pm$ 0.000 χ^2 /NDF: 3925262.7/36

Left In: 0.805 $\pm$ 0.000 χ^2 /NDF:480510.8/22

Left: 0.805 $\pm$ 0.000 χ^2 /NDF: 1171131.4/47

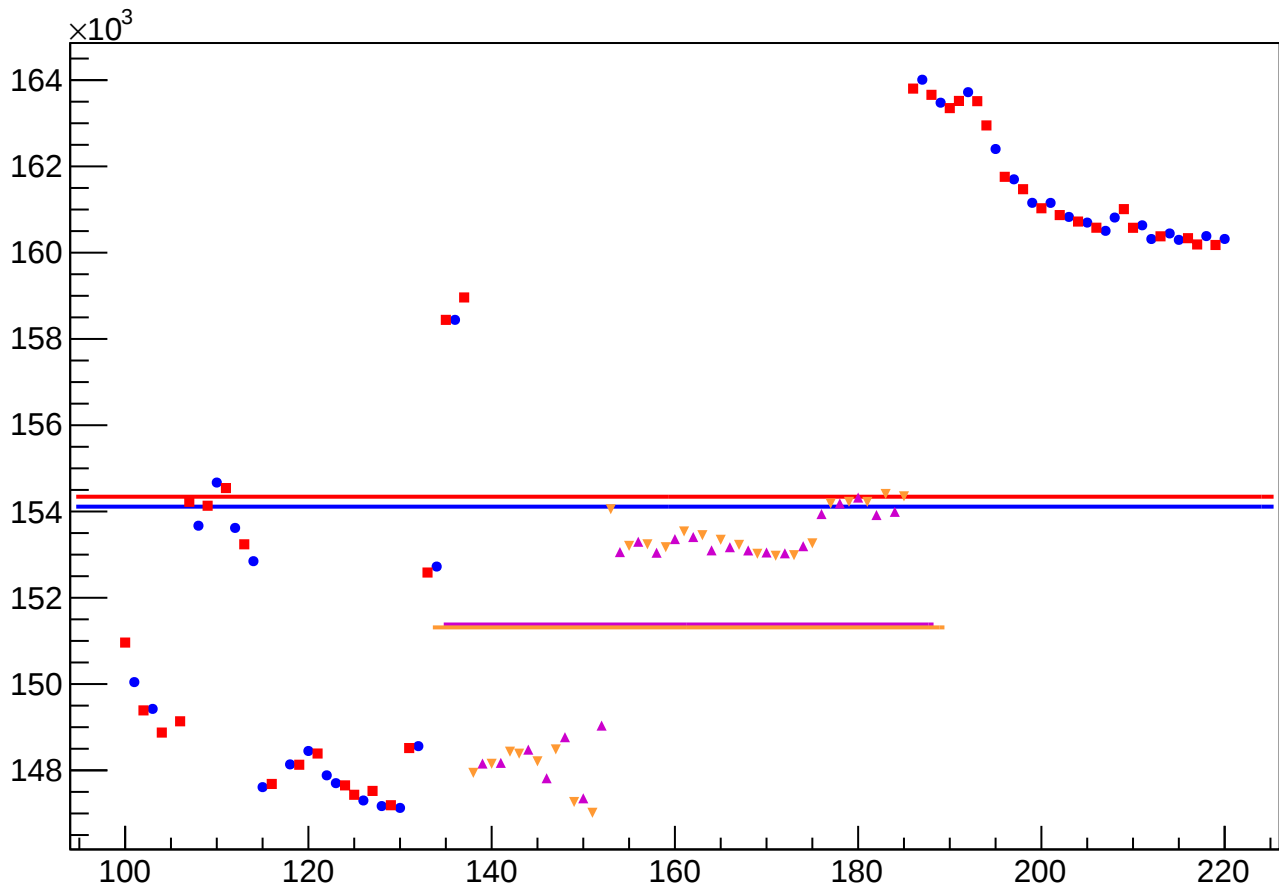
Right: 0.807 $\pm$ 0.000 χ^2 /NDF: 7289631.1/70

In: 0.808 $\pm$ 0.000 χ^2 /NDF:3844051.0/56

Out: 0.804 $\pm$ 0.000 χ^2 /NDF:4616142.7/61

All: 0.806 $\pm$ 0.000 χ^2 /NDF: 8460902.2/118

yield_bpm0i01WS_mean vs Slug, Sign Corrected



Right In: 154112.288+/-0.052

χ^2/NDF : 12624739947.8/33

Left Out: 151313.284+/-0.049

χ^2/NDF : 3153768134.8/24

Right Out: 154342.773+/-0.050

χ^2/NDF : 13164636782.8/36

Left In: 151380.236+/-0.051

χ^2/NDF : 2363895785.3/22

Left: 151345.082+/-0.035

χ^2/NDF : 5518562148.3/4

Right: 154232.687+/-0.036

χ^2/NDF : 25799659264.9/1

In: 152726.117+/-0.036

χ^2/NDF : 16391894317.3/5

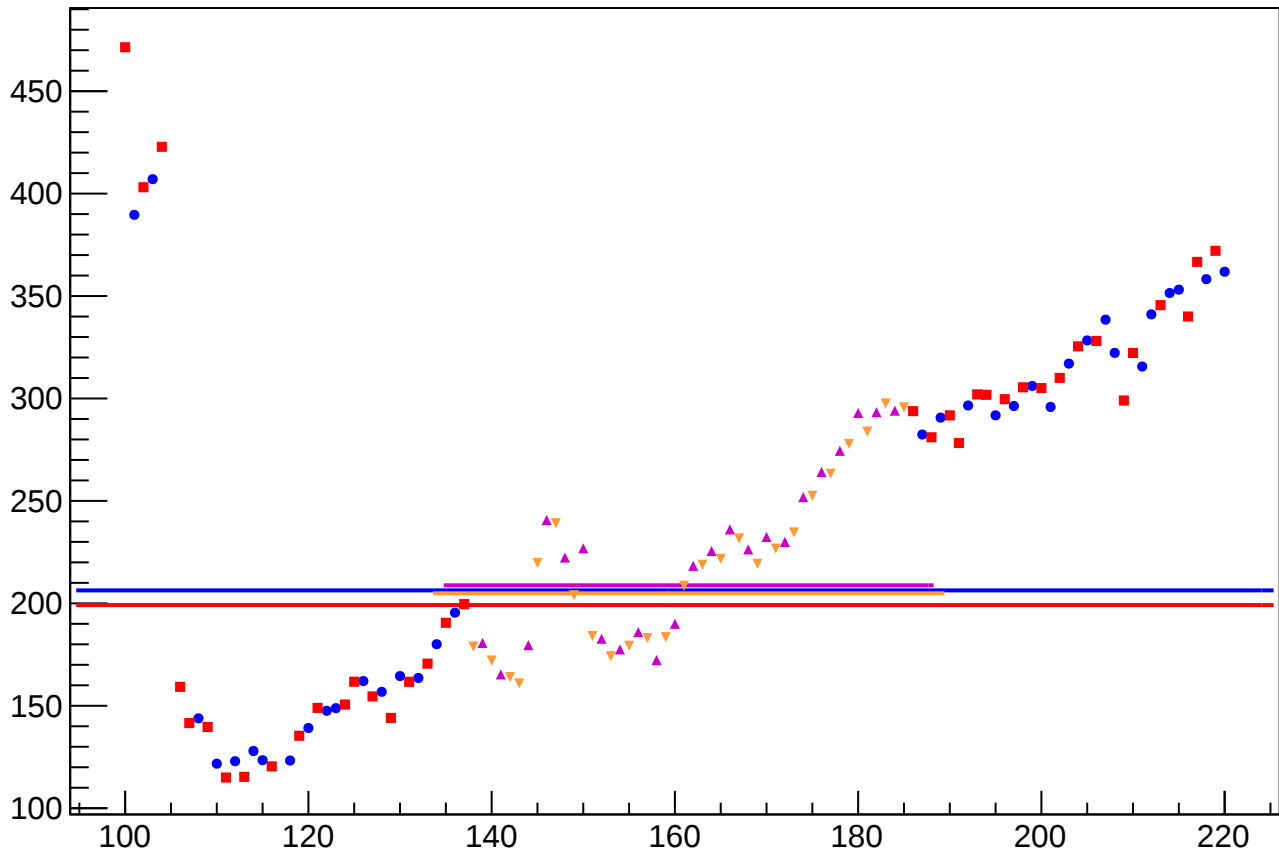
Out: 152797.516+/-0.035

χ^2/NDF : 18215535265.3/1

All: 152763.512+/-0.025

χ^2/NDF : 346094378.0/1

yield_bpm0i01WS_rms vs Slug, Sign Corrected



Right In: 206.334 $\pm$ 0.037 χ^2 /NDF: 5744489.0/33

Left Out: 204.900 $\pm$ 0.034 χ^2 /NDF:1056380.8/24

Right Out: 199.168 $\pm$ 0.035 χ^2 /NDF: 6064589.8/36

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

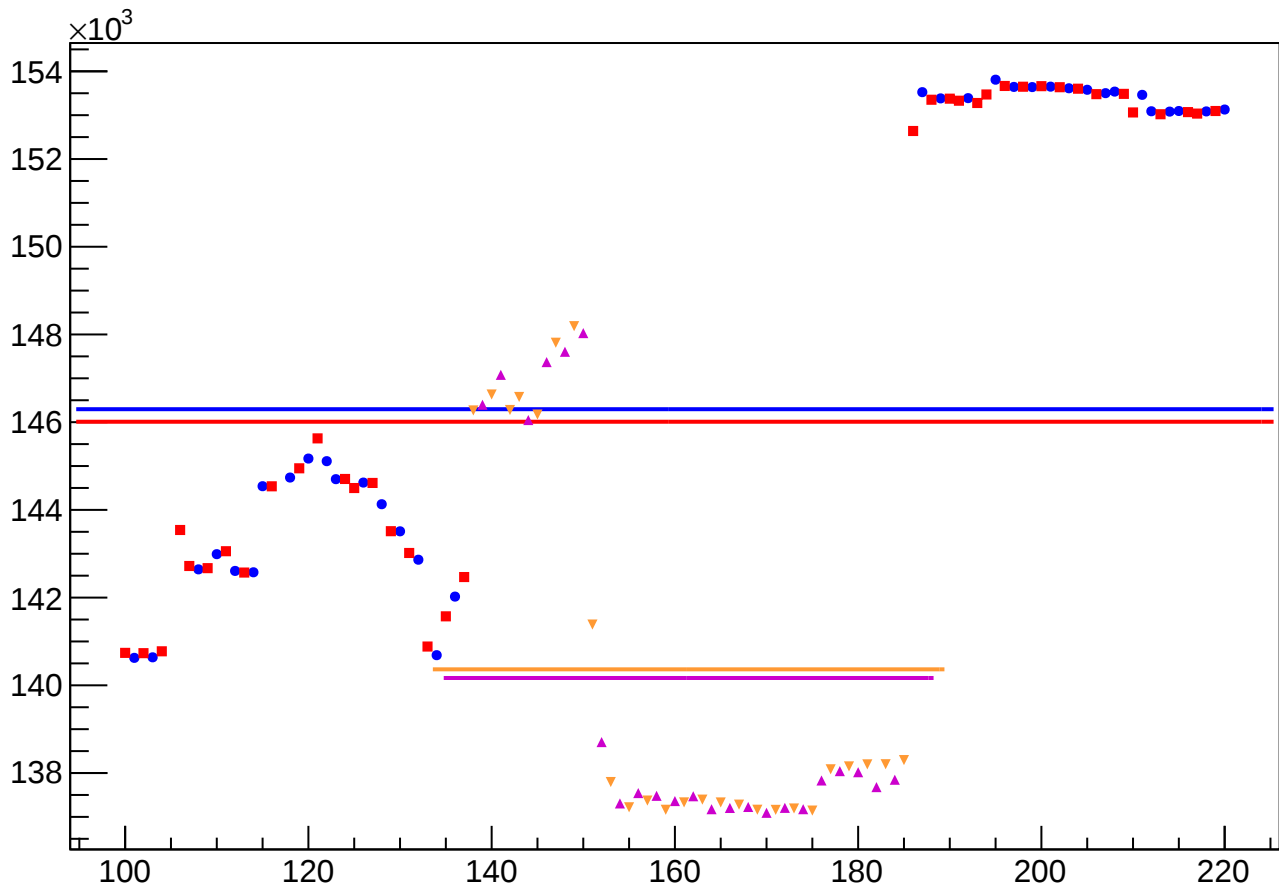
Right: 202.591 $\pm$ 0.025 χ^2 /NDF: 11828961.9/70

In: 207.592 $\pm$ 0.026 χ^2 /NDF:6748734.9/56

Out: 202.091 $\pm$ 0.025 χ^2 /NDF:7134553.2/61

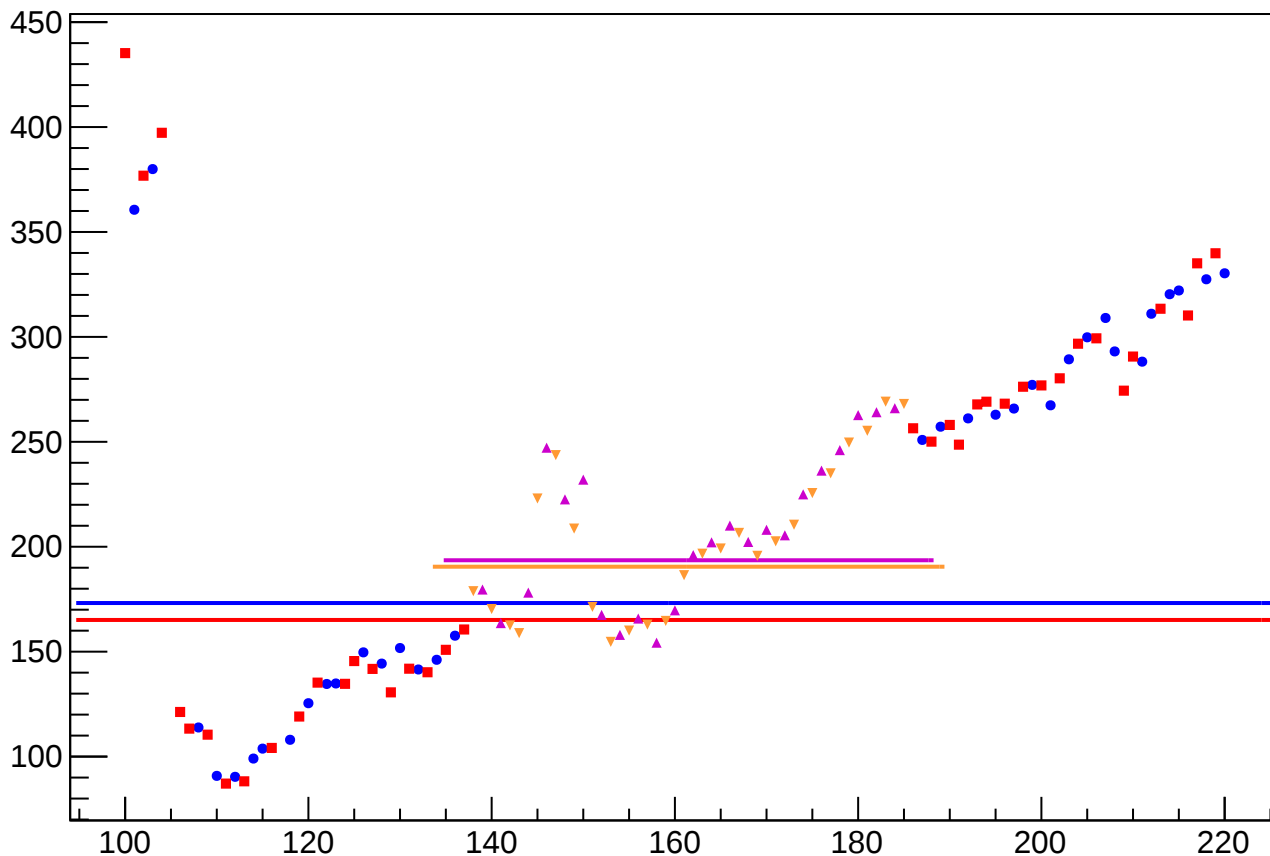
All: 204.711 $\pm$ 0.018 χ^2 /NDF: 13907125.5/13

yield_bpm0i01aWS_mean vs Slug, Sign Corrected



Right In: 146295.792 $\pm$ 0.045	χ^2 /NDF: 11040276930.9/33	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: 146144.364 $\pm$ 0.031	χ^2 /NDF: 23074899794.2
Right Out: 146009.881 $\pm$ 0.042	χ^2 /NDF: 12012774559.3/36	In: 143426.727 $\pm$ 0.032	χ^2 /NDF: 27942354608.7/5
Left In: 140166.971 $\pm$ 0.047	χ^2 /NDF: 8028464654.6/22	Out: 143398.456 $\pm$ 0.031	χ^2 /NDF: 29066916574.1
		All: 143411.827 $\pm$ 0.022	χ^2 /NDF: 570096708

yield_bpm0i01aWS_rms vs Slug, Sign Corrected



Right In: 173.178+/-0.031 χ^2/NDF : 7041867.8/33

Left Out: 190.486+/-0.032 χ^2/NDF : 950233.2/24

Right Out: 165.108+/-0.030 χ^2/NDF : 7445100.3/36

Left In: 193.558+/-0.034 χ^2/NDF : 963675.0/22

Left: 191.948+/-0.023 χ^2/NDF : 1918302.4/47

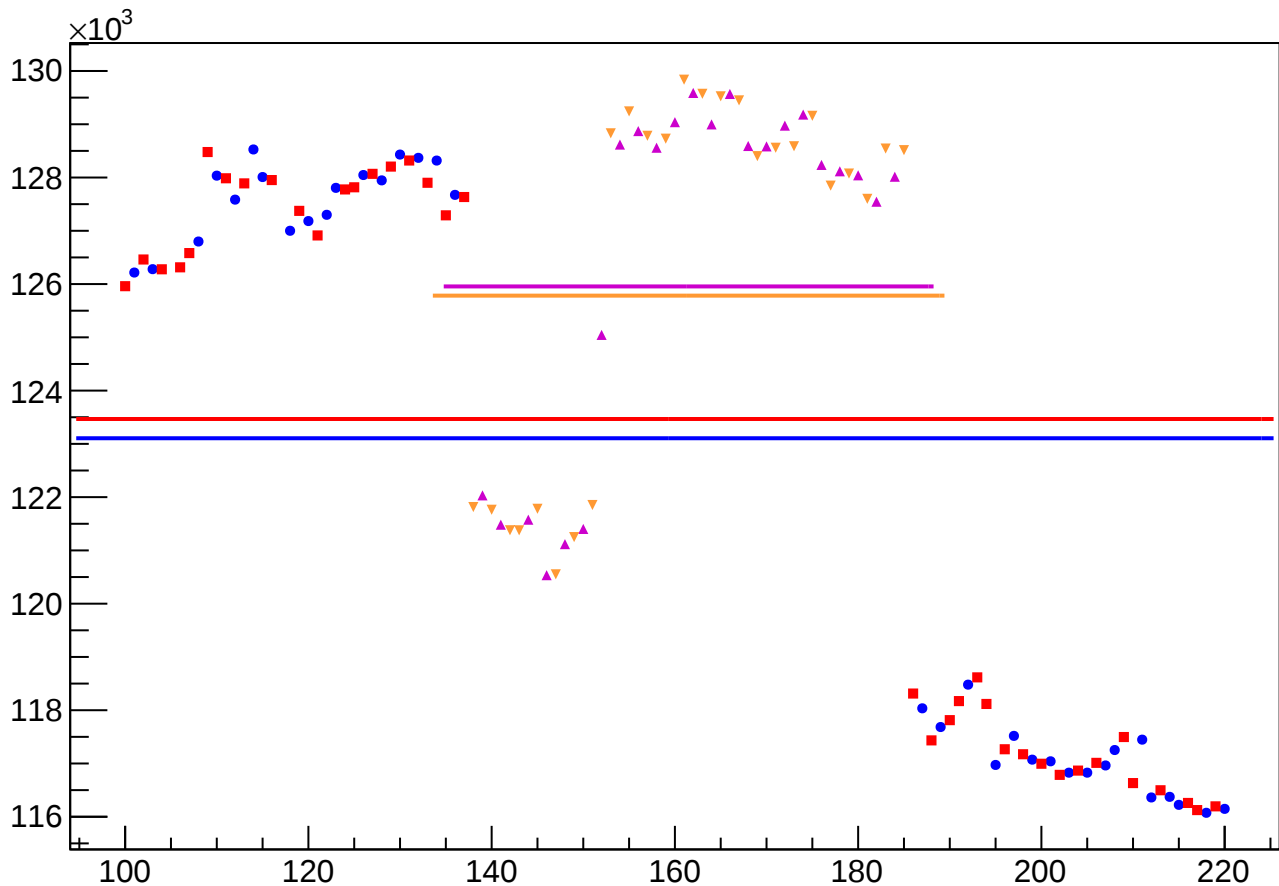
Right: 168.904+/-0.022 χ^2/NDF : 14521780.0/70

In: 182.719+/-0.023 χ^2/NDF : 8201780.8/56

Out: 176.847+/-0.022 χ^2/NDF : 8733887.3/61

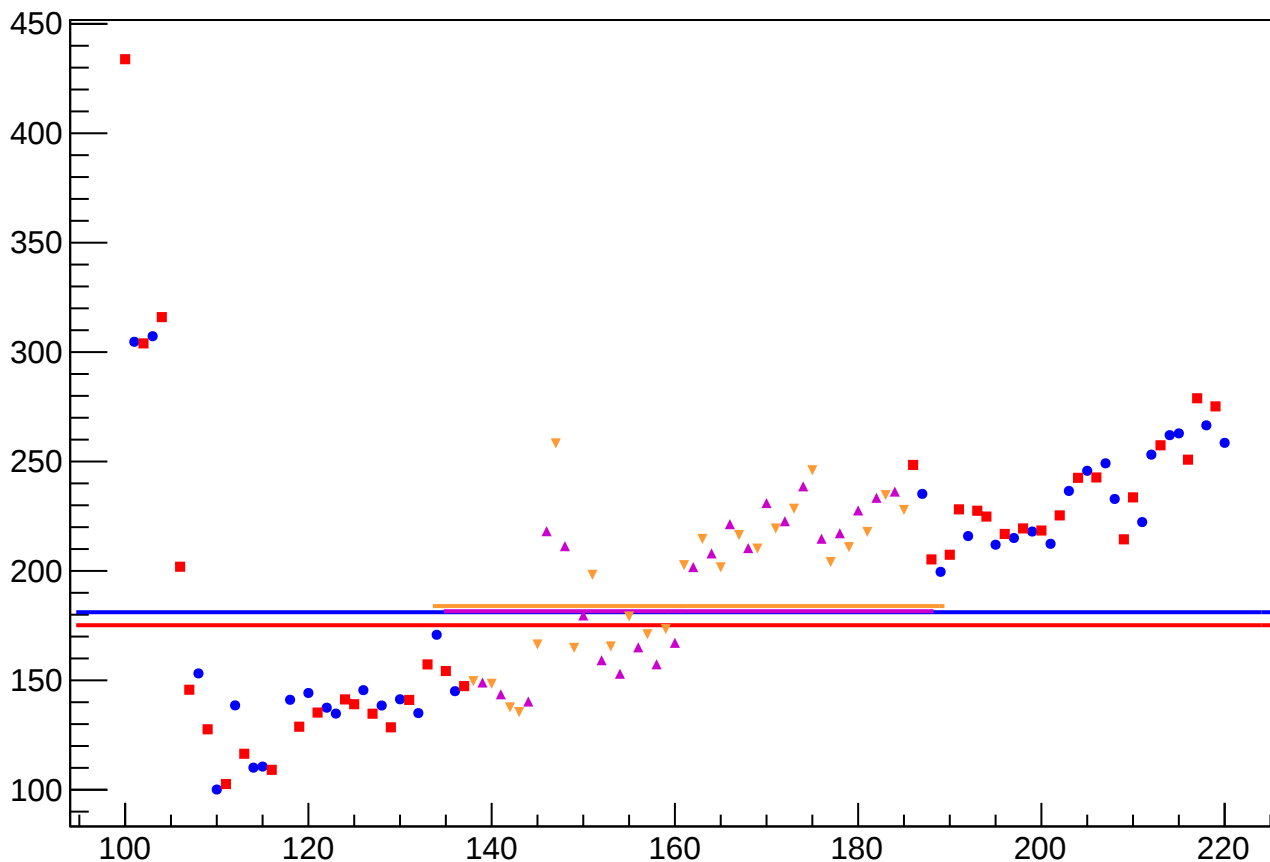
All: 179.624+/-0.016 χ^2/NDF : 16970145.0/131

yield_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: 123105.619 $\pm$ 0.044	χ^2 /NDF: 14664445409.8/33	Left: 125867.639 $\pm$ 0.031	χ^2 /NDF: 12541428458.9/33
Left Out: 125782.764 $\pm$ 0.044	χ^2 /NDF: 6729761889.8/24	Right: 123293.679 $\pm$ 0.030	χ^2 /NDF: 29969974855.4/24
Right Out: 123466.907 $\pm$ 0.042	χ^2 /NDF: 15270202829.3/36	In: 124500.089 $\pm$ 0.031	χ^2 /NDF: 22534904185.2/36
Left In: 125955.637 $\pm$ 0.045	χ^2 /NDF: 5804088930.1/22	Out: 124573.410 $\pm$ 0.030	χ^2 /NDF: 23446378965.4/22
		All: 124537.847 $\pm$ 0.022	χ^2 /NDF: 459841016.4/22

yield_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 181.131+/-0.031 χ^2/NDF : 3063210.5/33

Left Out: 183.947+/-0.031 χ^2/NDF :1123194.0/24

Right Out: 175.187+/-0.030 χ^2/NDF : 3558772.1/36

Left In: 181.596+/-0.032 χ^2/NDF :1103524.3/22

Left: 182.792+/-0.022 χ^2/NDF : 2229521.2/47

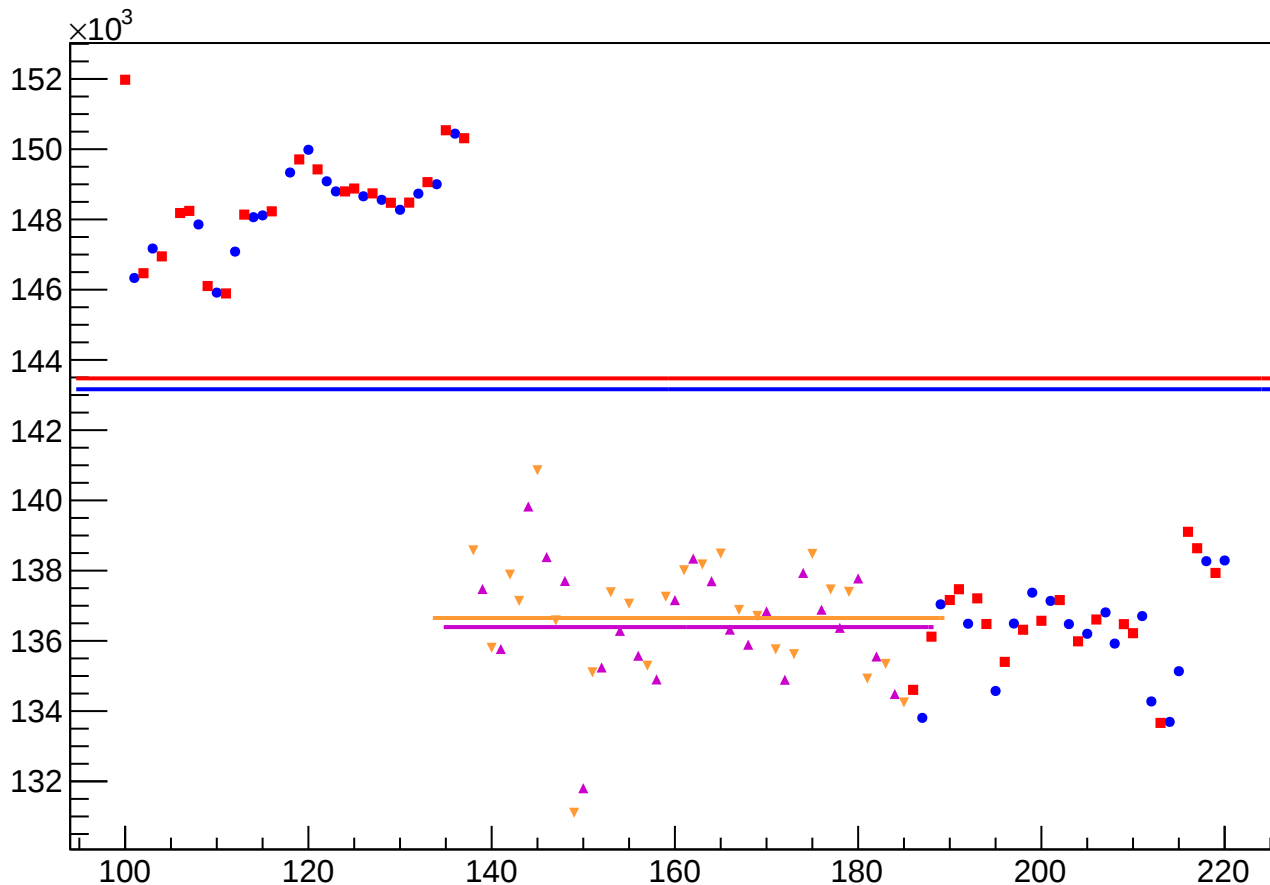
Right: 178.037+/-0.021 χ^2/NDF : 6641108.8/70

In: 181.359+/-0.022 χ^2/NDF :4166844.5/56

Out: 179.372+/-0.022 χ^2/NDF :4723353.3/61

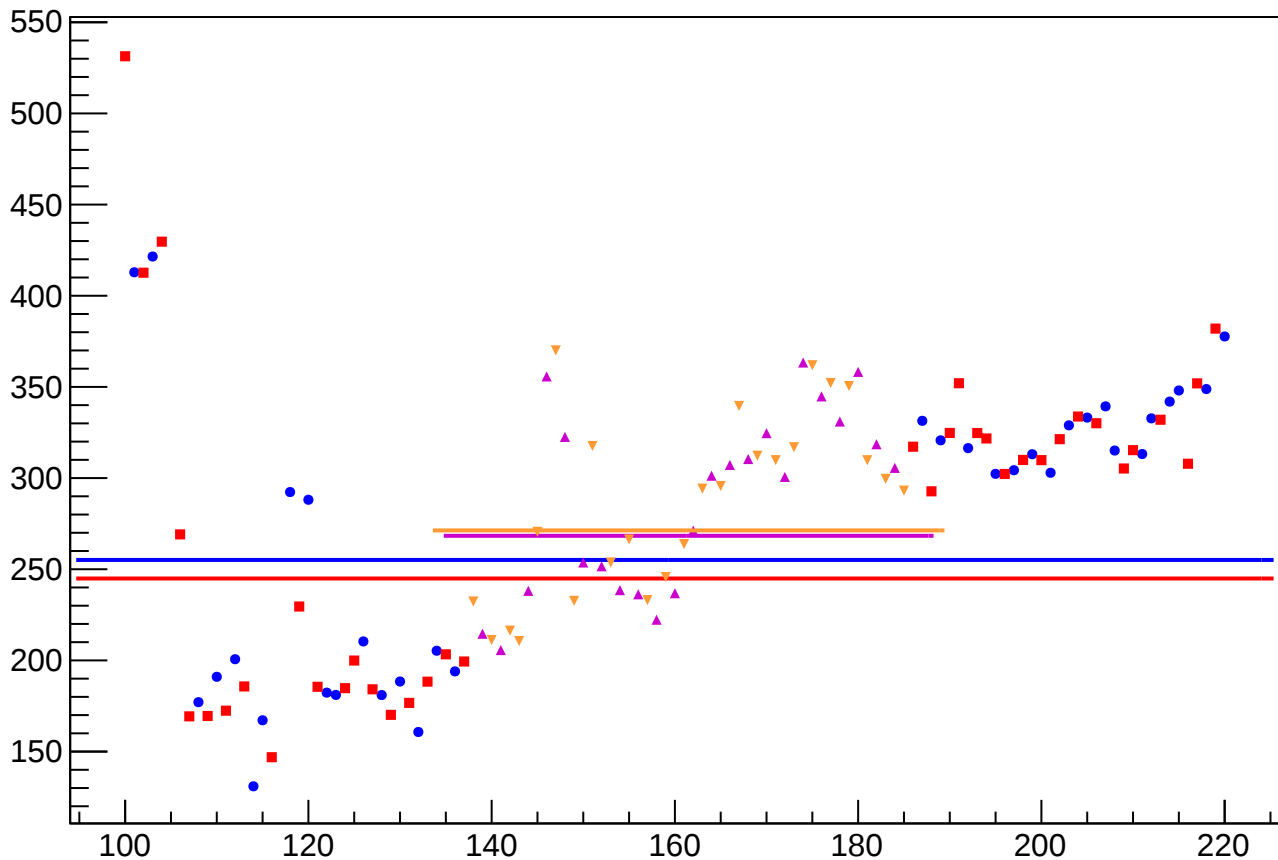
All: 180.336+/-0.015 χ^2/NDF : 8894334.3/118

yield_bpm0l02WS_mean vs Slug, Sign Corrected



Right In: 143164.491 $\pm$ 0.062	χ^2 /NDF: 10115876208.8/33	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: 143327.150 $\pm$ 0.043	χ^2 /NDF: 20289128894.1/5
Right Out: 143474.234 $\pm$ 0.059	χ^2 /NDF: 10160020445.9/36	In: 140004.137 $\pm$ 0.045	χ^2 /NDF: 16439002294.1/5
Left In: 136392.188 $\pm$ 0.066	χ^2 /NDF: 701986841.4/22	Out: 140391.021 $\pm$ 0.043	χ^2 /NDF: 17200982994.8
		All: 140204.665 $\pm$ 0.031	χ^2 /NDF: 336781888

yield_bpm0l02WS_rms vs Slug, Sign Corrected



Right In: 255.096 $\pm$ 0.044 χ^2 /NDF: 3025252.9/33

Left Out: 271.295 $\pm$ 0.046 χ^2 /NDF:1064485.7/24

Right Out: 244.919 $\pm$ 0.041 χ^2 /NDF: 3269637.2/36

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

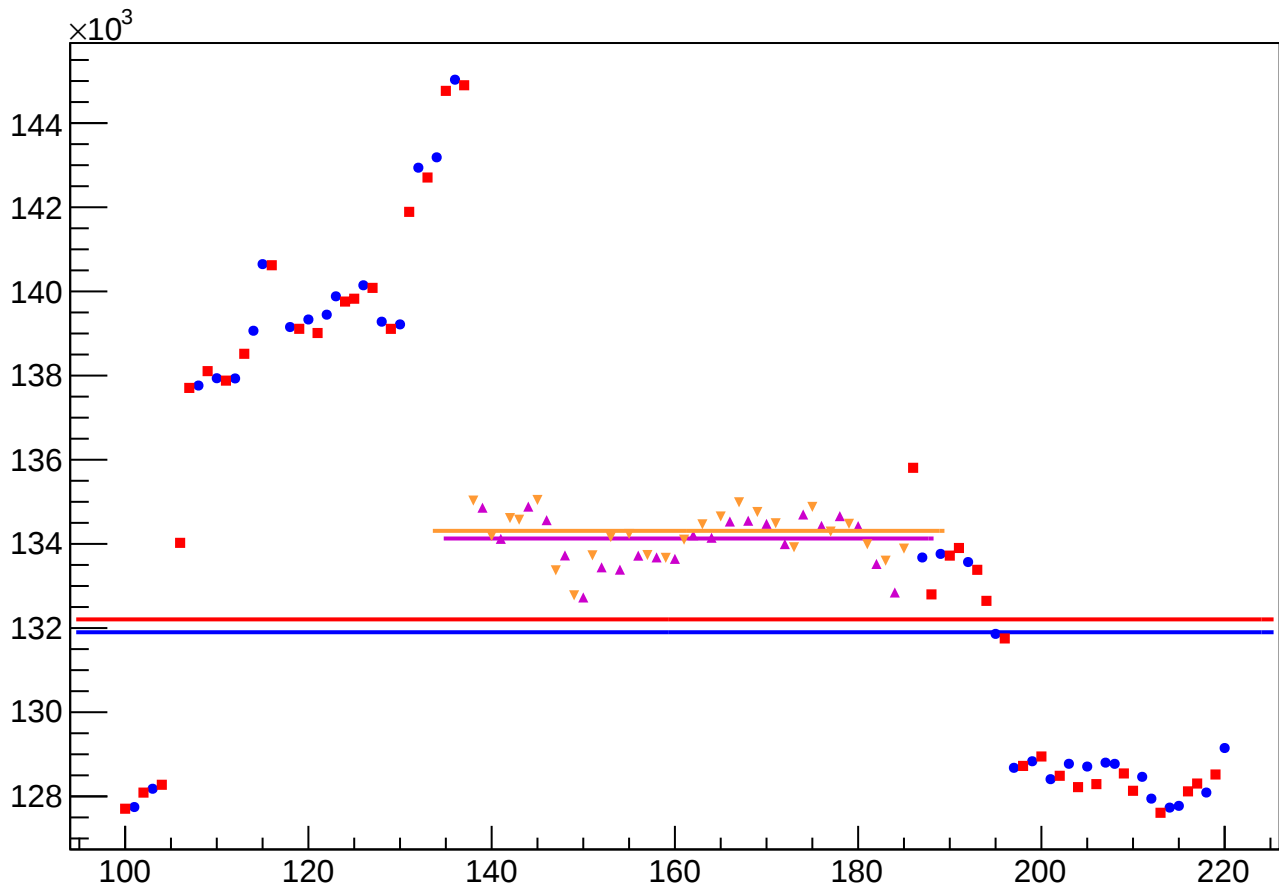
Right: 249.752 $\pm$ 0.030 χ^2 /NDF: 6323455.8/70

In: 261.278 $\pm$ 0.032 χ^2 /NDF:4145637.5/56

Out: 256.838 $\pm$ 0.031 χ^2 /NDF:4516731.0/61

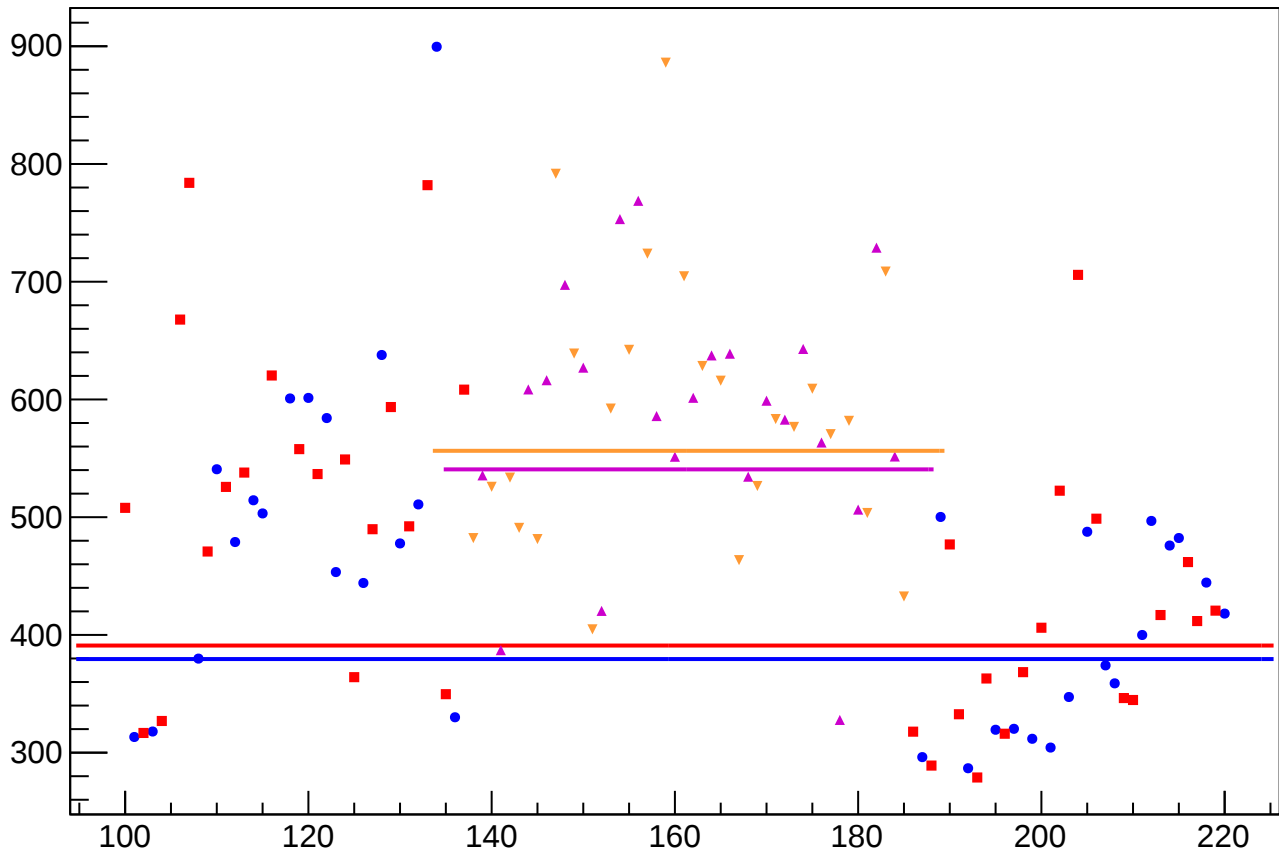
All: 258.976 $\pm$ 0.022 χ^2 /NDF: 8672432.9/118

yield_bpm0l03WS_mean vs Slug, Sign Corrected



Right In: 131900.610 $\pm$ 0.099	χ^2 /NDF: 2867767491.9/33	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: 132049.406 $\pm$ 0.071	χ^2 /NDF: 4981597348.0/6
Right Out: 132206.126 $\pm$ 0.101	χ^2 /NDF: 2109145899.7/36	In: 132624.490 $\pm$ 0.081	χ^2 /NDF: 3049445195.7/56
Left In: 134128.172 $\pm$ 0.142	χ^2 /NDF: 15533736.2/22	Out: 132937.222 $\pm$ 0.082	χ^2 /NDF: 2275151294.6/6
		All: 132779.449 $\pm$ 0.057	χ^2 /NDF: 53319933

yield_bpm0l03WS_rms vs Slug, Sign Corrected



Right In: 379.502 $\pm$ 0.070 χ^2 /NDF: 1583792.7/33

Left Out: 556.381 $\pm$ 0.098 χ^2 /NDF:1002064.0/24

Right Out: 390.981 $\pm$ 0.071 χ^2 /NDF: 1978262.2/36

Left In: 540.607 $\pm$ 0.100 χ^2 /NDF:1409015.2/22

Left: 548.687 $\pm$ 0.070 χ^2 /NDF: 2423723.9/47

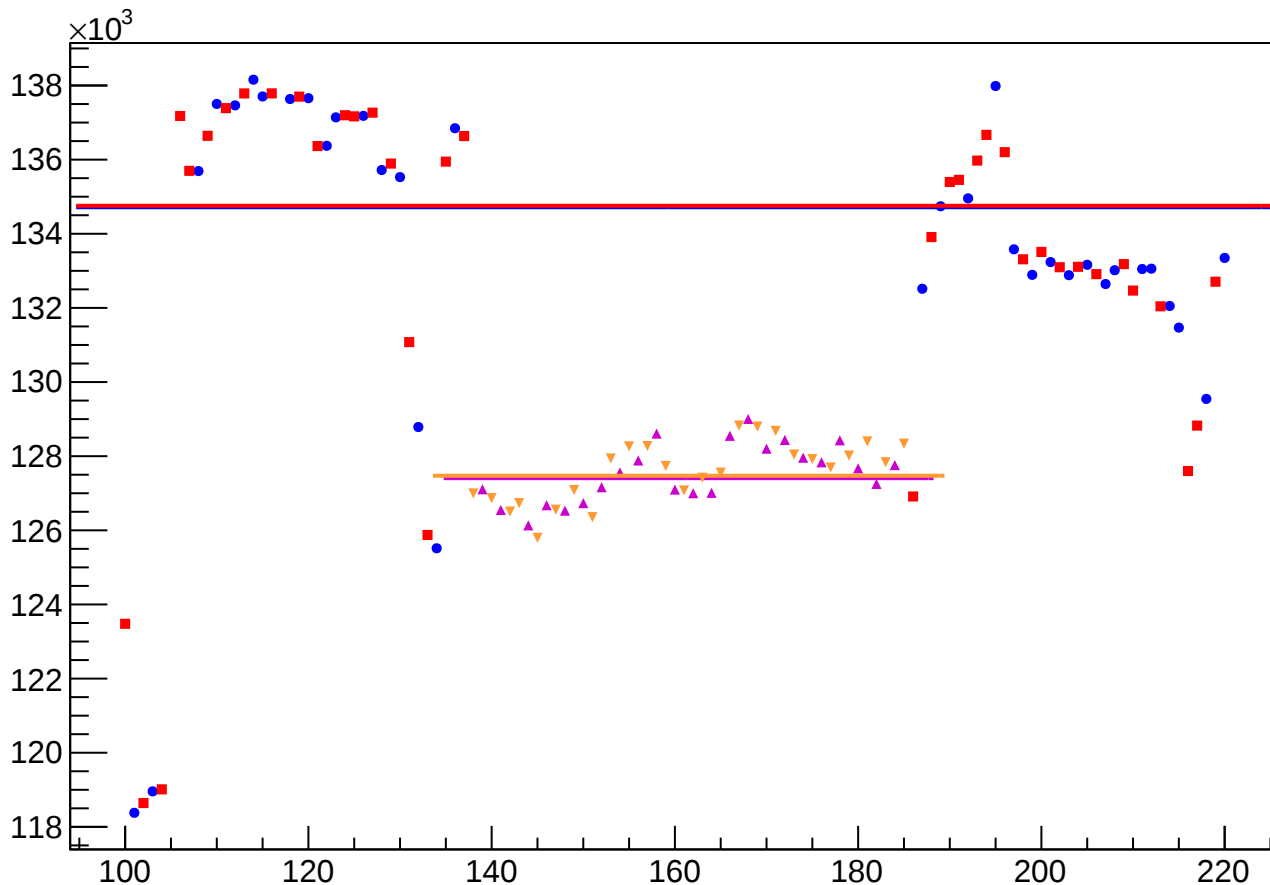
Right: 385.093 $\pm$ 0.050 χ^2 /NDF: 3575278.4/70

In: 431.856 $\pm$ 0.057 χ^2 /NDF:4730890.3/56

Out: 448.451 $\pm$ 0.058 χ^2 /NDF:4840097.8/61

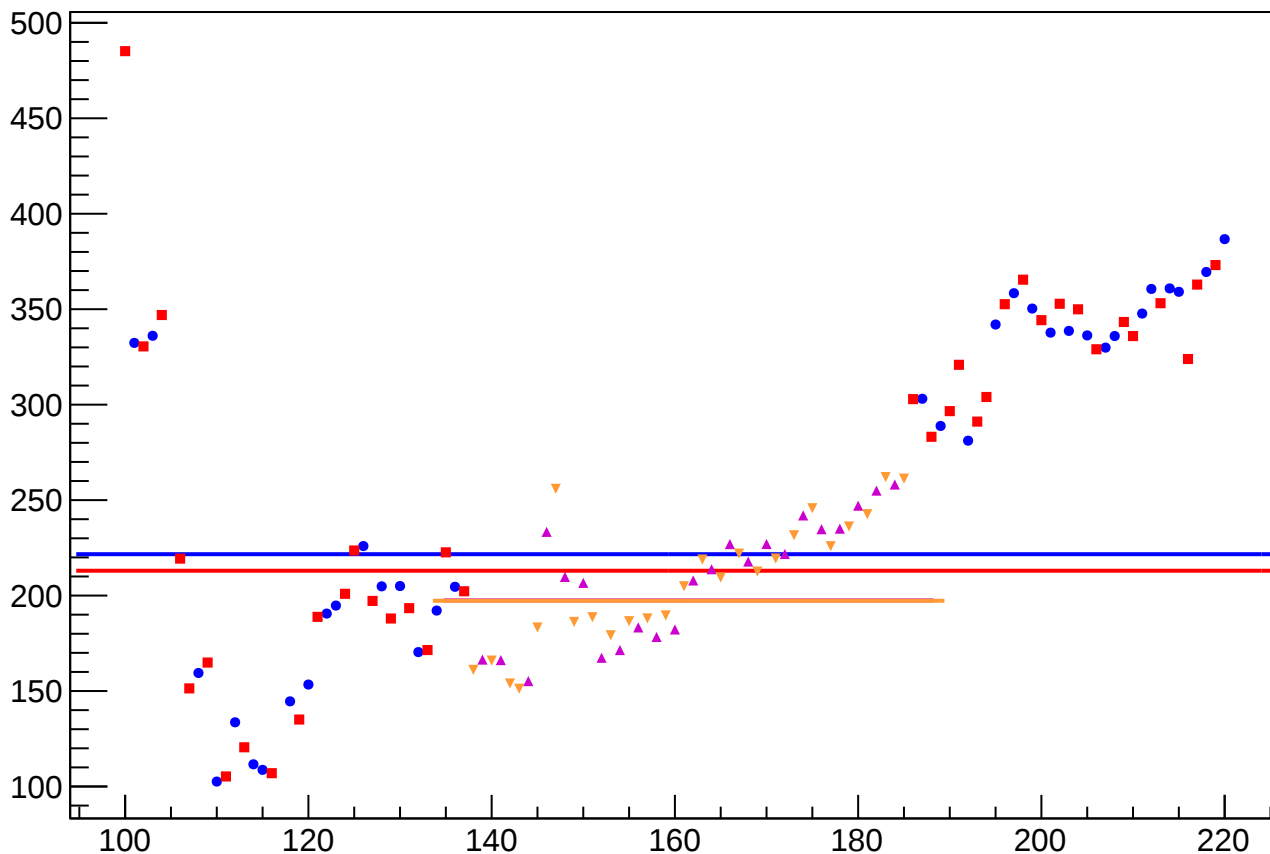
All: 440.079 $\pm$ 0.041 χ^2 /NDF: 9612645.4/118

yield_bpm0l04WS_mean vs Slug, Sign Corrected



Right In: 134716.546 $\pm$ 0.056	χ^2 /NDF: 5186333068.9/33	Left: 127440.757 $\pm$ 0.034	χ^2 /NDF: 574486725.7/47
Left Out: 127472.525 $\pm$ 0.047	χ^2 /NDF: 303609315.6/24	Right: 134737.040 $\pm$ 0.039	χ^2 /NDF: 11088541558.1
Right Out: 134755.591 $\pm$ 0.053	χ^2 /NDF: 5901952812.3/36	In: 130533.384 $\pm$ 0.037	χ^2 /NDF: 15226821578.2/5
Left In: 127406.911 $\pm$ 0.048	χ^2 /NDF: 269927988.0/22	Out: 130652.440 $\pm$ 0.035	χ^2 /NDF: 16754374668.1
		All: 130595.262 $\pm$ 0.025	χ^2 /NDF: 319866999

yield_bpm0l04WS_rms vs Slug, Sign Corrected



Right In: 221.674+/-0.040 χ^2/NDF : 5668311.6/33

Left Out: 197.289+/-0.033 χ^2/NDF : 852024.1/24

Right Out: 213.008+/-0.038 χ^2/NDF : 6025719.6/36

Left In: 197.471+/-0.034 χ^2/NDF : 791577.5/22

Left: 197.377+/-0.024 χ^2/NDF : 1643616.2/47

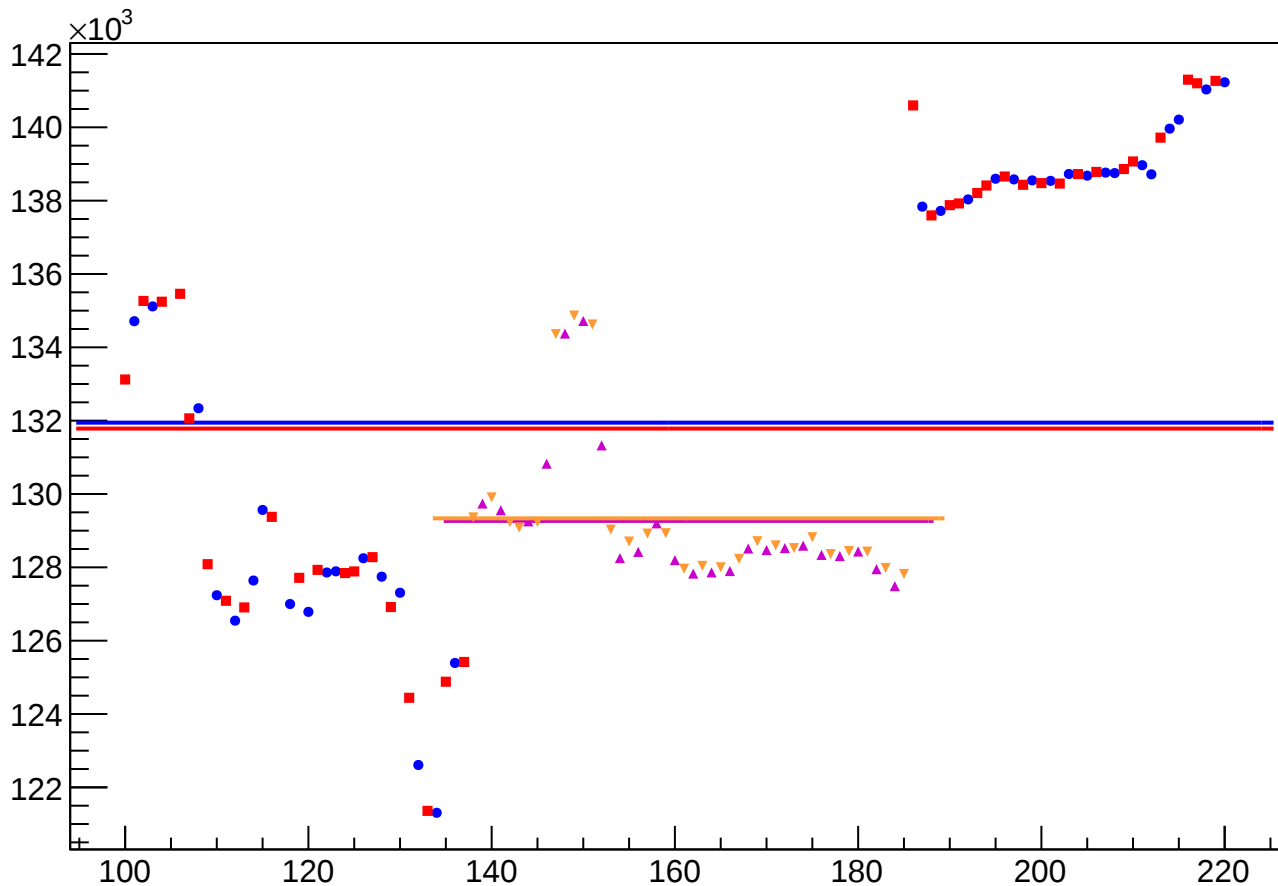
Right: 217.126+/-0.027 χ^2/NDF : 11719221.7/70

In: 207.823+/-0.026 χ^2/NDF : 6674132.6/56

Out: 204.153+/-0.025 χ^2/NDF : 6976022.7/61

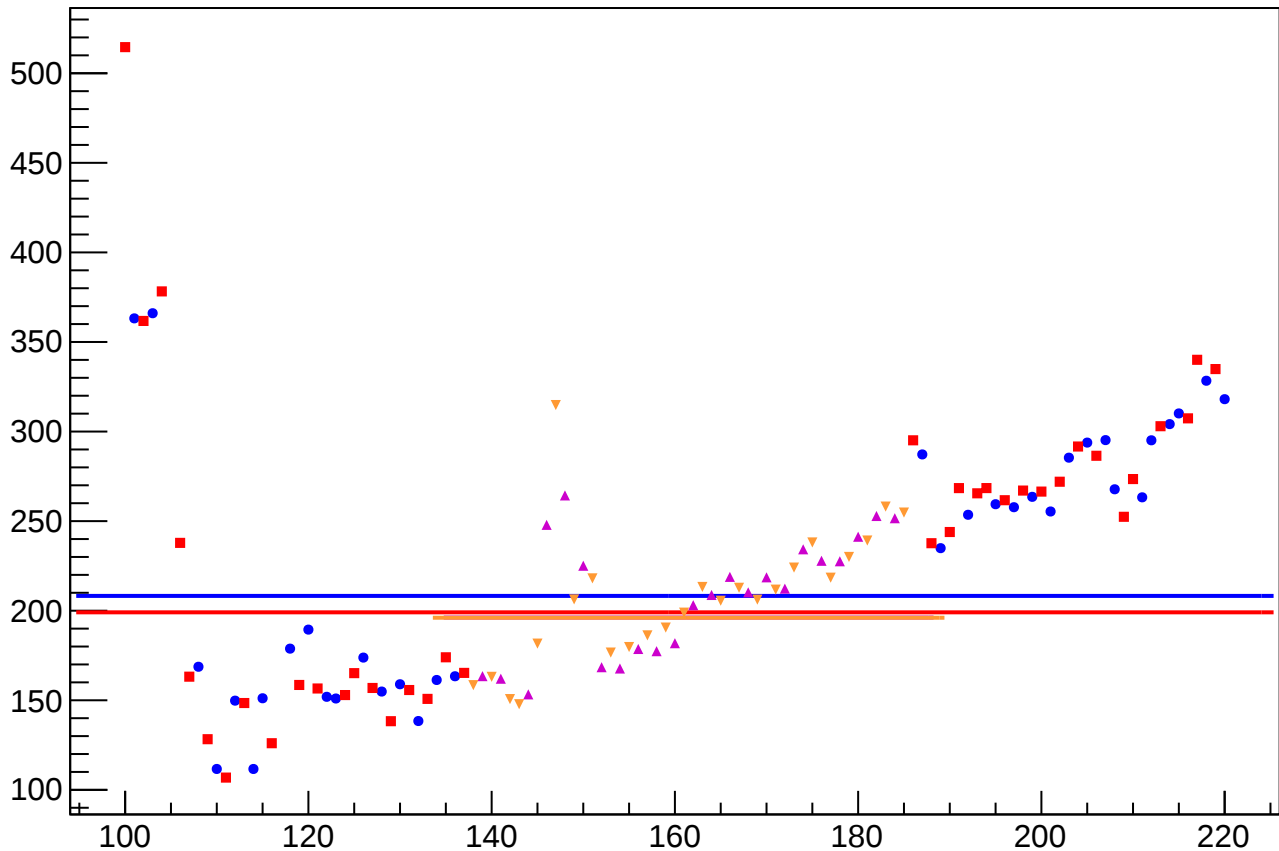
All: 205.915+/-0.018 χ^2/NDF : 13660618.7/131

yield_bpm0l05WS_mean vs Slug, Sign Corrected



Right In: 131946.114 $\pm$ 0.051	χ^2 /NDF: 14867804136.2/33	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: 131861.057 $\pm$ 0.035	χ^2 /NDF: 30319507214.7
Right Out: 131784.076 $\pm$ 0.049	χ^2 /NDF: 15446406356.5/36	In: 130529.404 $\pm$ 0.035	χ^2 /NDF: 17540251163.0/5
Left In: 129266.909 $\pm$ 0.048	χ^2 /NDF: 1213762773.1/22	Out: 130513.729 $\pm$ 0.034	χ^2 /NDF: 18217915138.7
		All: 130521.257 $\pm$ 0.024	χ^2 /NDF: 357582704

yield_bpm0l05WS_rms vs Slug, Sign Corrected



Right In: 208.262 $\pm$ 0.036 χ^2 /NDF: 3644280.3/33

Left Out: 196.077 $\pm$ 0.033 χ^2 /NDF: 975710.9/24

Right Out: 199.091 $\pm$ 0.034 χ^2 /NDF: 4337355.3/36

Left In: 196.186 $\pm$ 0.034 χ^2 /NDF: 898058.0/22

Left: 196.130 $\pm$ 0.024 χ^2 /NDF: 1873774.2/47

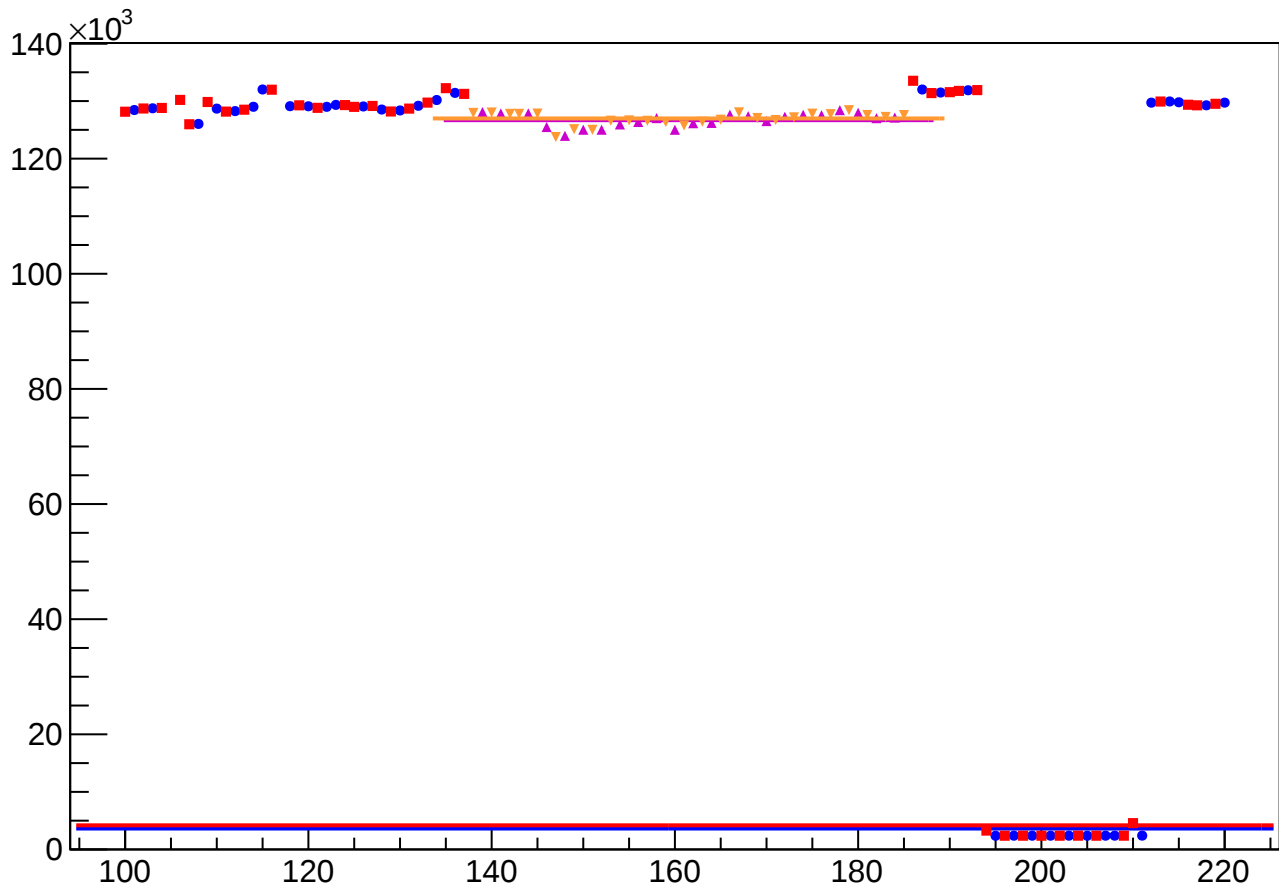
Right: 203.448 $\pm$ 0.025 χ^2 /NDF: 8015570.4/70

In: 201.876 $\pm$ 0.025 χ^2 /NDF: 4601603.3/56

Out: 197.527 $\pm$ 0.024 χ^2 /NDF: 5317067.5/61

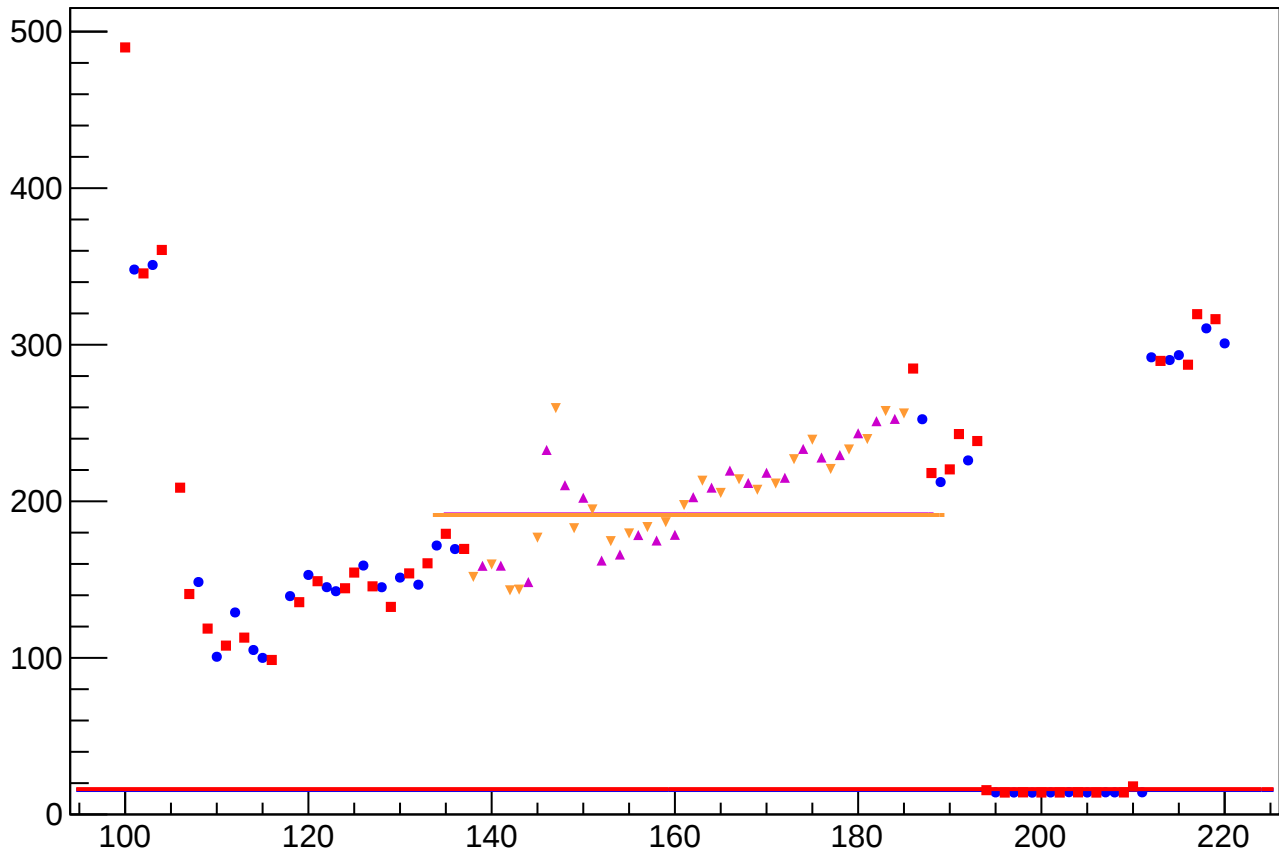
All: 199.616 $\pm$ 0.017 χ^2 /NDF: 9934707.9/118

yield_bpm0l06WS_mean vs Slug, Sign Corrected



Right In: 3637.208+/-0.005	χ^2/NDF : 5555957865486.7/33	Left: 126836.943+/-0.033	χ^2/NDF : 1211882944.2/4
Left Out: 126981.724+/-0.046	χ^2/NDF : 530573115.8/24	Right: 3887.676+/-0.004	χ^2/NDF : 11879011163683
Right Out: 4191.175+/-0.006	χ^2/NDF : 6318132932848.7/36	In: 5188.633+/-0.005	χ^2/NDF : 12326139685392.3
Left In: 126682.659+/-0.047	χ^2/NDF : 660415880.0/22	Out: 6183.009+/-0.006	χ^2/NDF : 13476351853025.
		All: 5639.127+/-0.004	χ^2/NDF : 25818579941

yield_bpm0l06WS_rms vs Slug, Sign Corrected



Right In: 15.603+/-0.004 χ^2/NDF : 19965746.6/33

Left Out: 191.263+/-0.032 χ^2/NDF :992566.2/24

Right Out: 16.193+/-0.004 χ^2/NDF : 20906074.0/36

Left In: 191.683+/-0.033 χ^2/NDF :864384.9/22

Left: 191.466+/-0.023 χ^2/NDF : 1857033.4/47

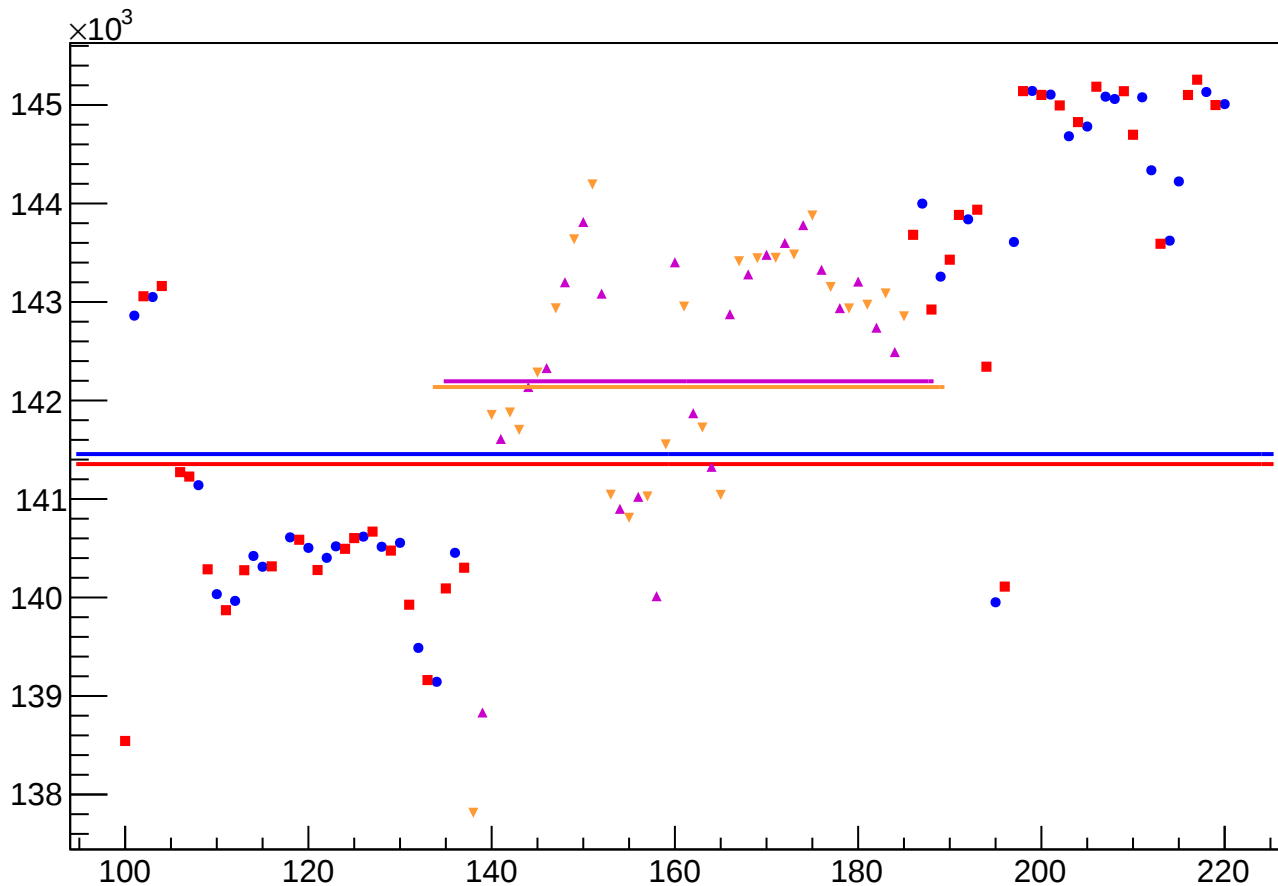
Right: 15.869+/-0.003 χ^2/NDF : 40882991.9/70

In: 17.823+/-0.004 χ^2/NDF :48555488.9/56

Out: 19.033+/-0.004 χ^2/NDF :50998975.3/61

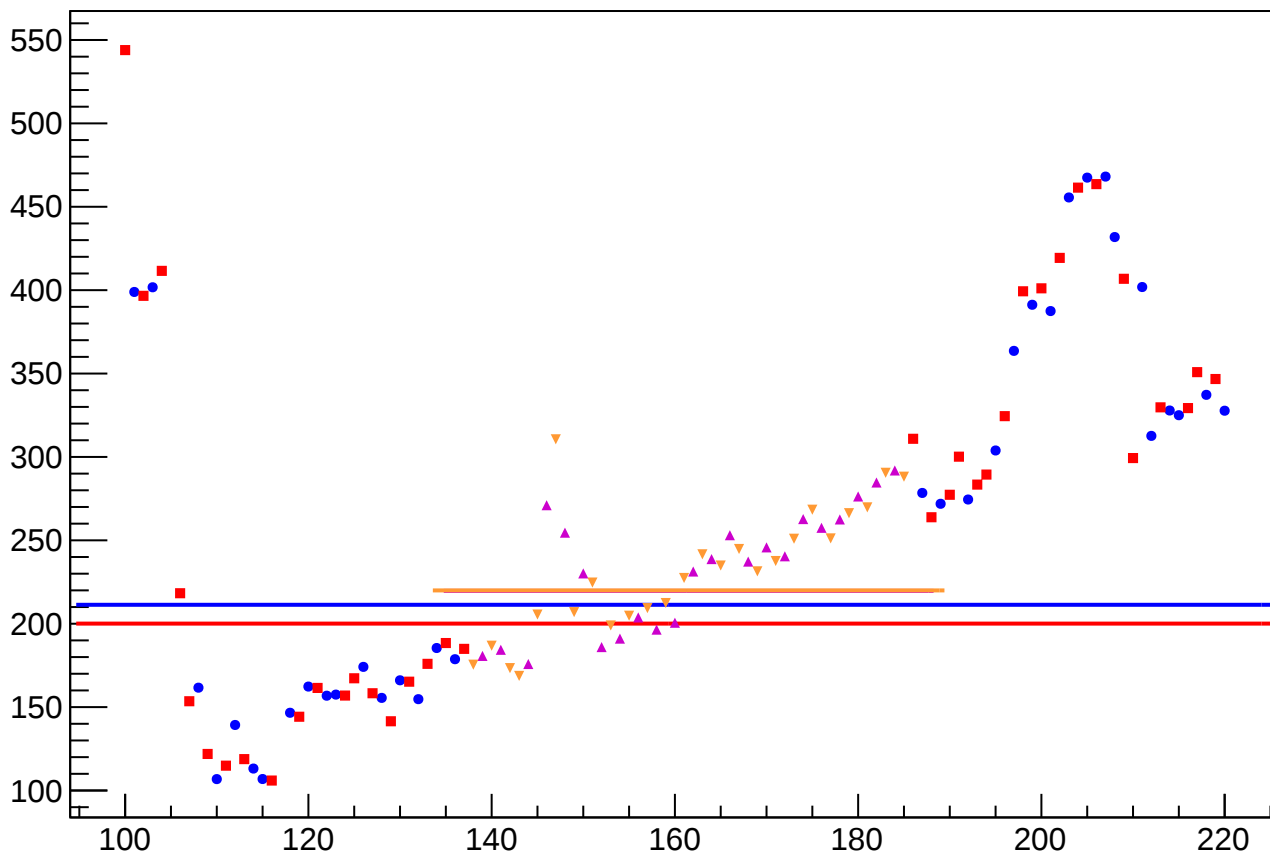
All: 18.371+/-0.003 χ^2/NDF : 99602108.8/118

yield_bpm0l07WS_mean vs Slug, Sign Corrected



Right In: 141455.871+/-0.054	χ^2/NDF : 1204597892.9/33	Left: 142164.953+/-0.038	χ^2/NDF : 1460209902.9/4
Left Out: 142136.579+/-0.052	χ^2/NDF : 815573343.0/24	Right: 141401.817+/-0.037	χ^2/NDF : 2478573382.0/6
Right Out: 141354.339+/-0.051	χ^2/NDF : 1272110316.7/36	In: 141828.054+/-0.038	χ^2/NDF : 1942123241.4/50
Left In: 142195.020+/-0.054	χ^2/NDF : 644030906.9/22	Out: 141734.186+/-0.036	χ^2/NDF : 2202648786.3/6
		All: 141778.911+/-0.026	χ^2/NDF : 414792979

yield_bpm0l07WS_rms vs Slug, Sign Corrected



Right In: 211.350+/-0.038 χ^2/NDF : 6844845.2/33

Left Out: 219.969+/-0.037 χ^2/NDF : 866616.3/24

Right Out: 200.072+/-0.036 χ^2/NDF : 7256394.3/36

Left In: 219.685+/-0.038 χ^2/NDF : 812745.1/22

Left: 219.831+/-0.027 χ^2/NDF : 1679390.1/47

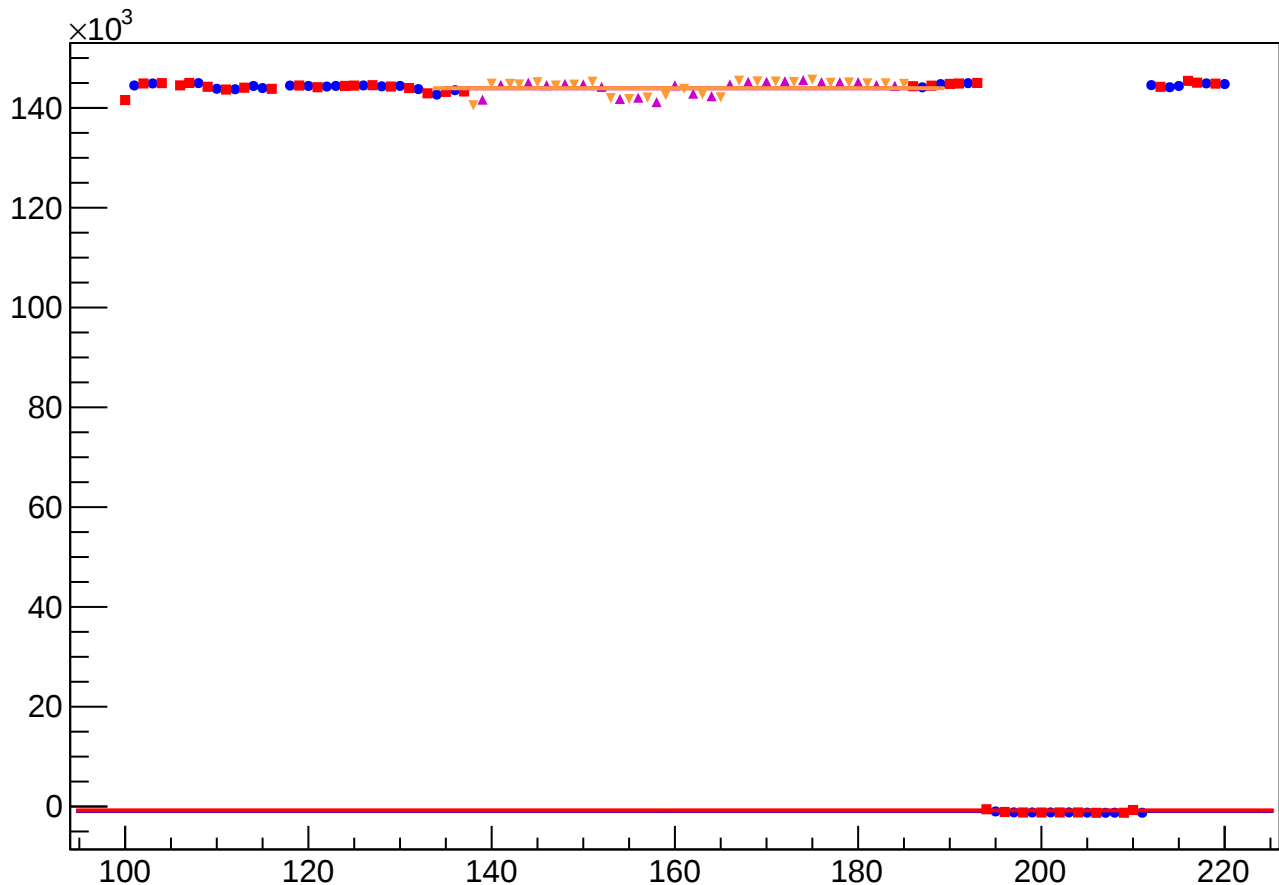
Right: 205.346+/-0.026 χ^2/NDF : 14147266.1/70

In: 215.547+/-0.027 χ^2/NDF : 7681366.8/56

Out: 209.734+/-0.026 χ^2/NDF : 8271779.0/61

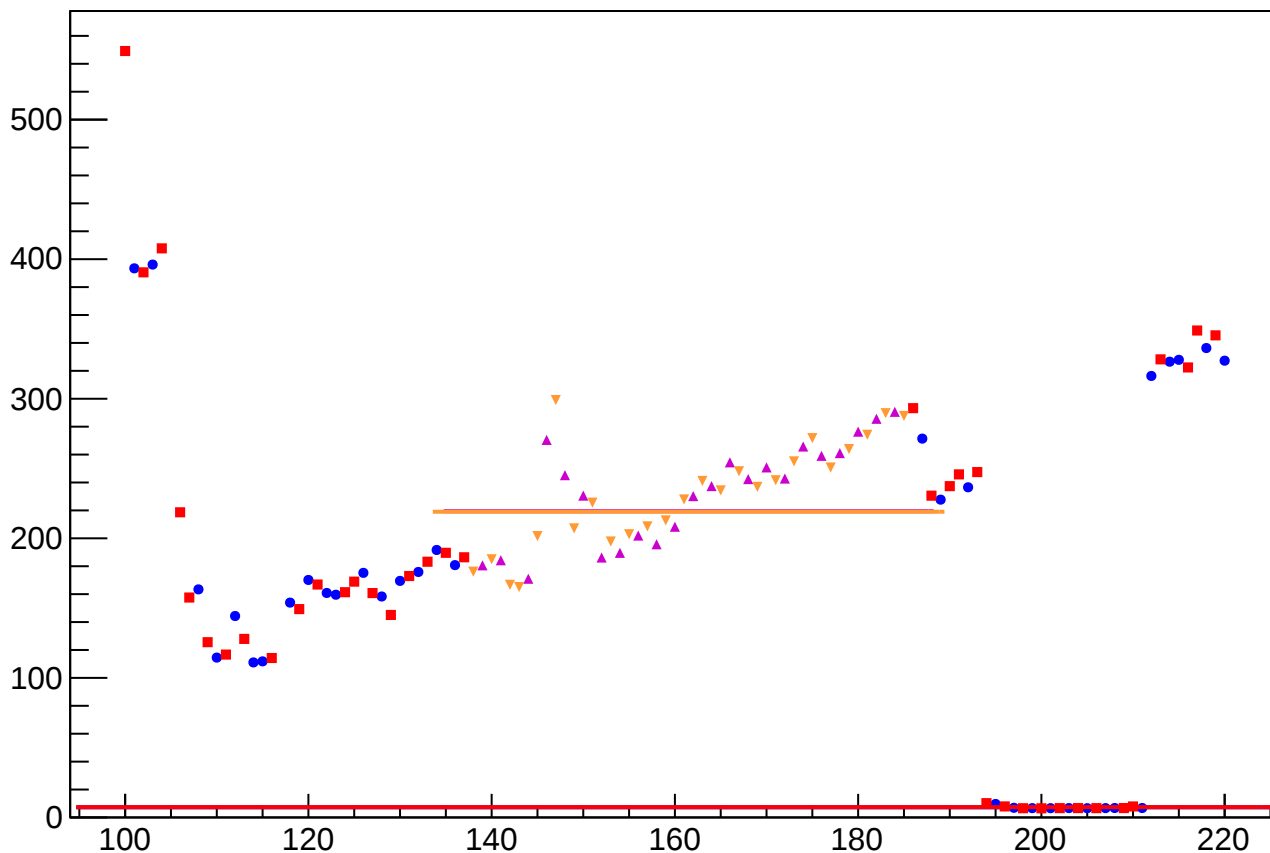
All: 212.503+/-0.019 χ^2/NDF : 15977364.8/11

yield_bpm0l08WS_mean vs Slug, Sign Corrected



Right In: -905.588 ± 0.003 $\chi^2/\text{NDF}: 6033886206757.5/33$
 Left Out: 143951.284 ± 0.052 $\chi^2/\text{NDF}: 864679545.2/24$
 Right Out: -776.371 ± 0.003 $\chi^2/\text{NDF}: 6957198955886.6/36$
 Left In: 143938.288 ± 0.054 $\chi^2/\text{NDF}: 719814685.6/22$
 Left: 143944.995 ± 0.037 $\chi^2/\text{NDF}: 1584524299.4/33$
 Right: -847.003 ± 0.002 $\chi^2/\text{NDF}: 12992174894701.2/24$
 In: -559.316 ± 0.003 $\chi^2/\text{NDF}: 13254509087104.2/36$
 Out: -331.795 ± 0.003 $\chi^2/\text{NDF}: 14640463281847.8/36$
 All: -456.123 ± 0.002 $\chi^2/\text{NDF}: 27898360230.4/72$

yield_bpm0l08WS_rms vs Slug, Sign Corrected



Right In: 7.269 $\pm$ 0.002 χ^2 /NDF: 22018135.0/33

Left Out: 219.050 $\pm$ 0.037 χ^2 /NDF:934417.6/24

Right Out: 7.375 $\pm$ 0.002 χ^2 /NDF: 23134895.2/36

Left In: 219.426 $\pm$ 0.038 χ^2 /NDF:850089.5/22

Left: 219.232 $\pm$ 0.026 χ^2 /NDF: 1784557.4/47

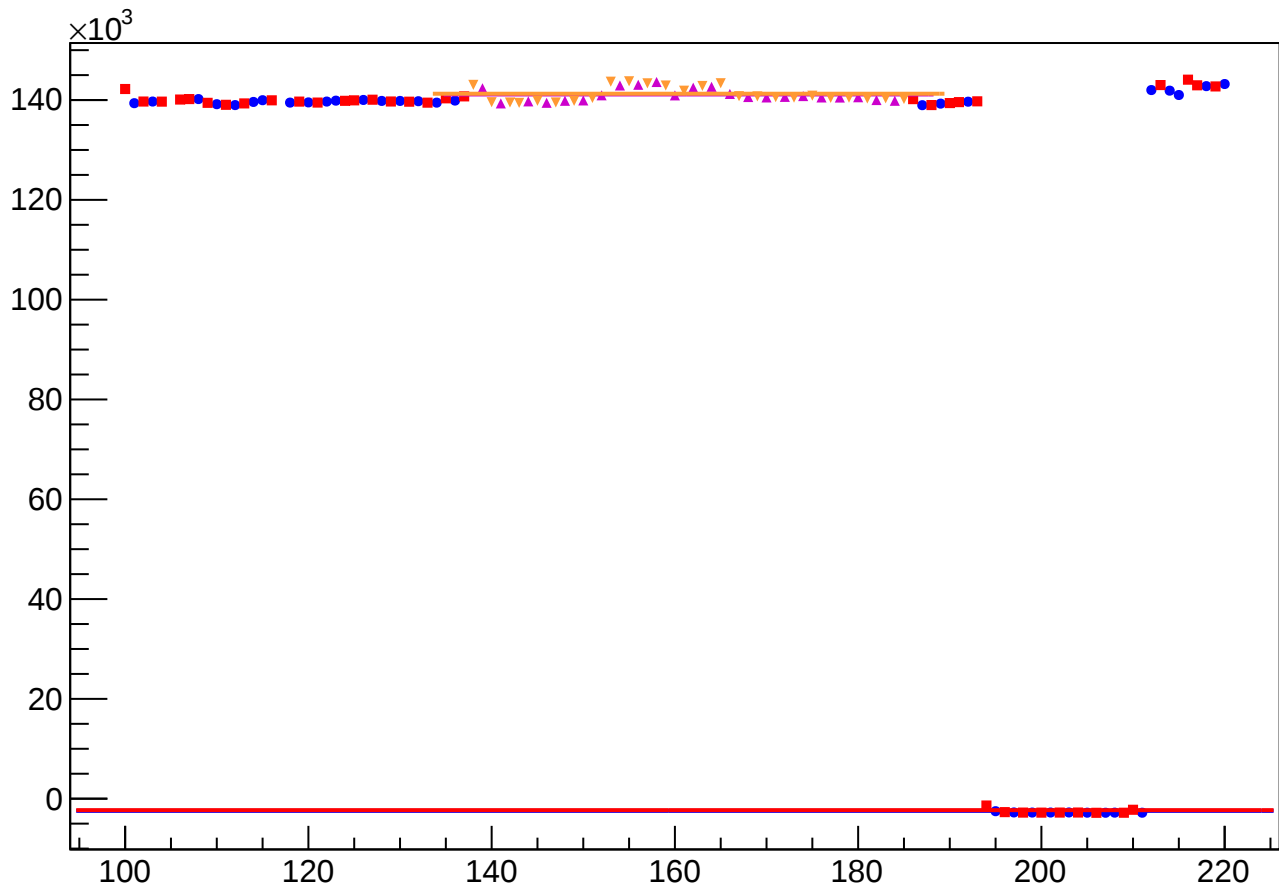
Right: 7.317 $\pm$ 0.001 χ^2 /NDF: 45154486.4/70

In: 7.776 $\pm$ 0.002 χ^2 /NDF:53847770.6/56

Out: 8.025 $\pm$ 0.002 χ^2 /NDF:56936573.1/61

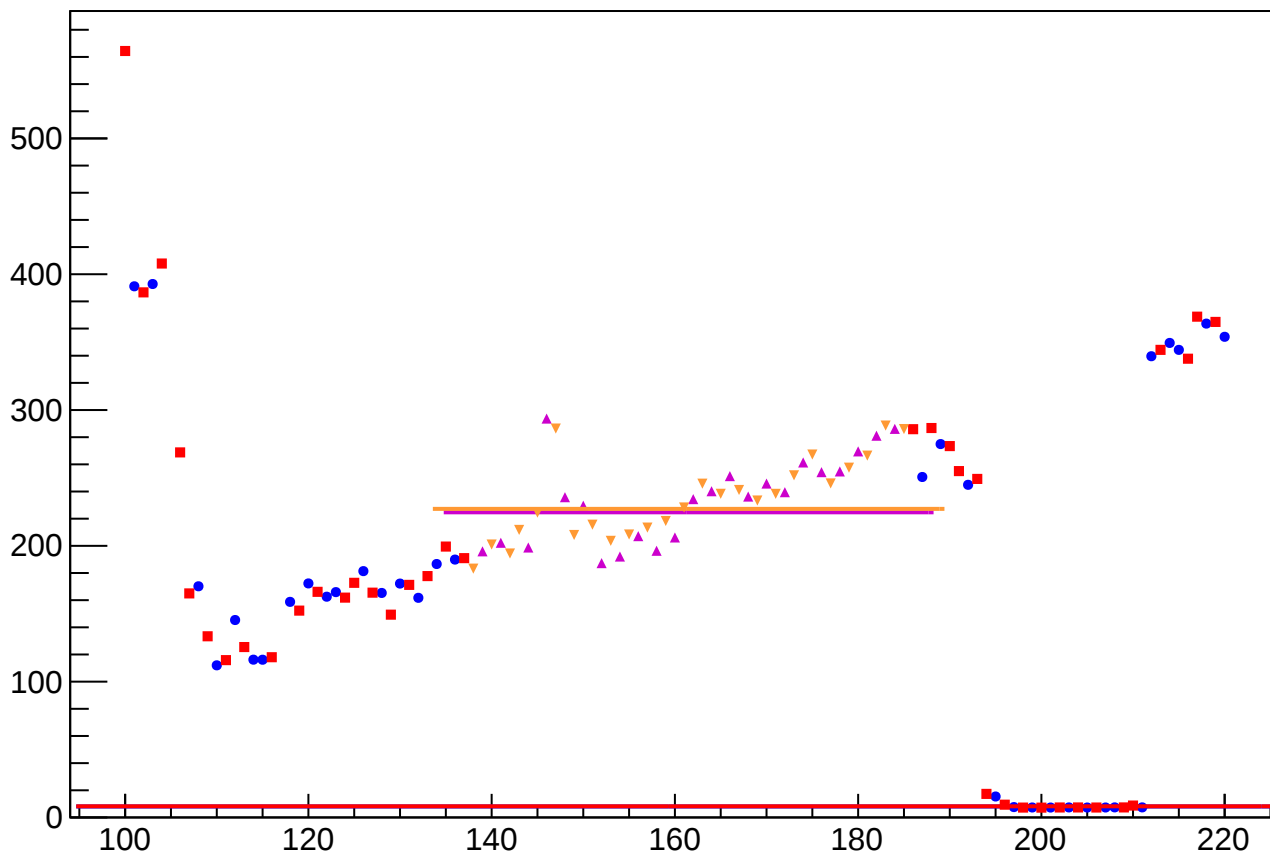
All: 7.889 $\pm$ 0.001 χ^2 /NDF: 110792436.5/118

yield_bpm0l09WS_mean vs Slug, Sign Corrected



Right In: -2443.782 $\pm$ 0.003	χ^2 /NDF: 5498698984625.3/33	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: -2378.914 $\pm$ 0.002	χ^2 /NDF: 1178995389769
Right Out: -2300.665 $\pm$ 0.003	χ^2 /NDF: 6290187735953.1/36	In: -2030.837 $\pm$ 0.003	χ^2 /NDF: 12314078603596.7
Left In: 141119.484 $\pm$ 0.055	χ^2 /NDF: 565312728.1/22	Out: -1780.087 $\pm$ 0.003	χ^2 /NDF: 13413188647138
		All: -1917.138 $\pm$ 0.002	χ^2 /NDF: 2573055401

yield_bpm0l09WS_rms vs Slug, Sign Corrected



Right In: 8.071 ± 0.002 χ^2/NDF : 22152857.2/33

Left Out: 227.224 ± 0.038 χ^2/NDF : 484955.3/24

Right Out: 8.208 ± 0.002 χ^2/NDF : 23156399.9/36

Left In: 224.686 ± 0.039 χ^2/NDF : 578366.0/22

Left: 225.984 ± 0.027 χ^2/NDF : 1065504.5/47

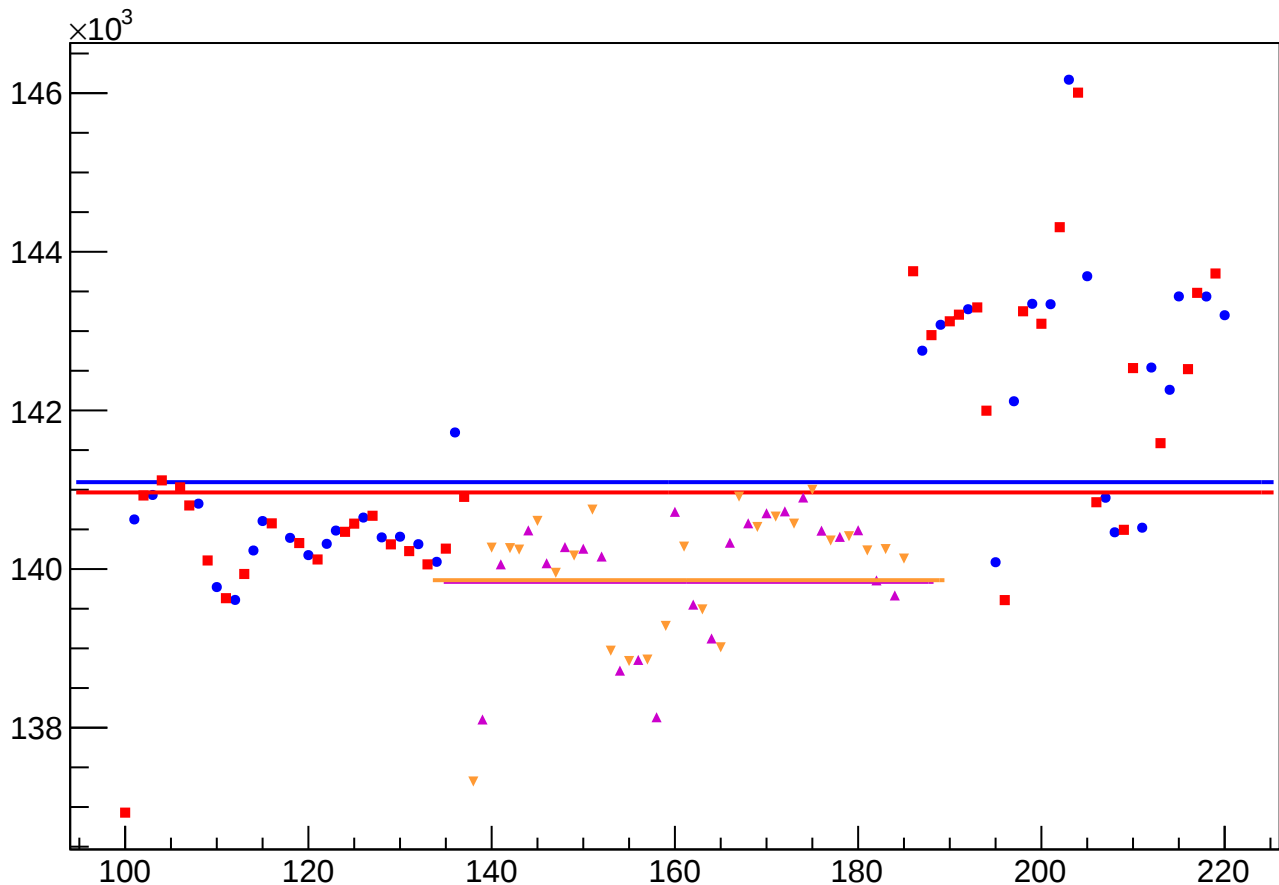
Right: 8.133 ± 0.002 χ^2/NDF : 45311220.1/70

In: 8.694 ± 0.002 χ^2/NDF : 53760831.5/56

Out: 9.002 ± 0.002 χ^2/NDF : 56790439.8/61

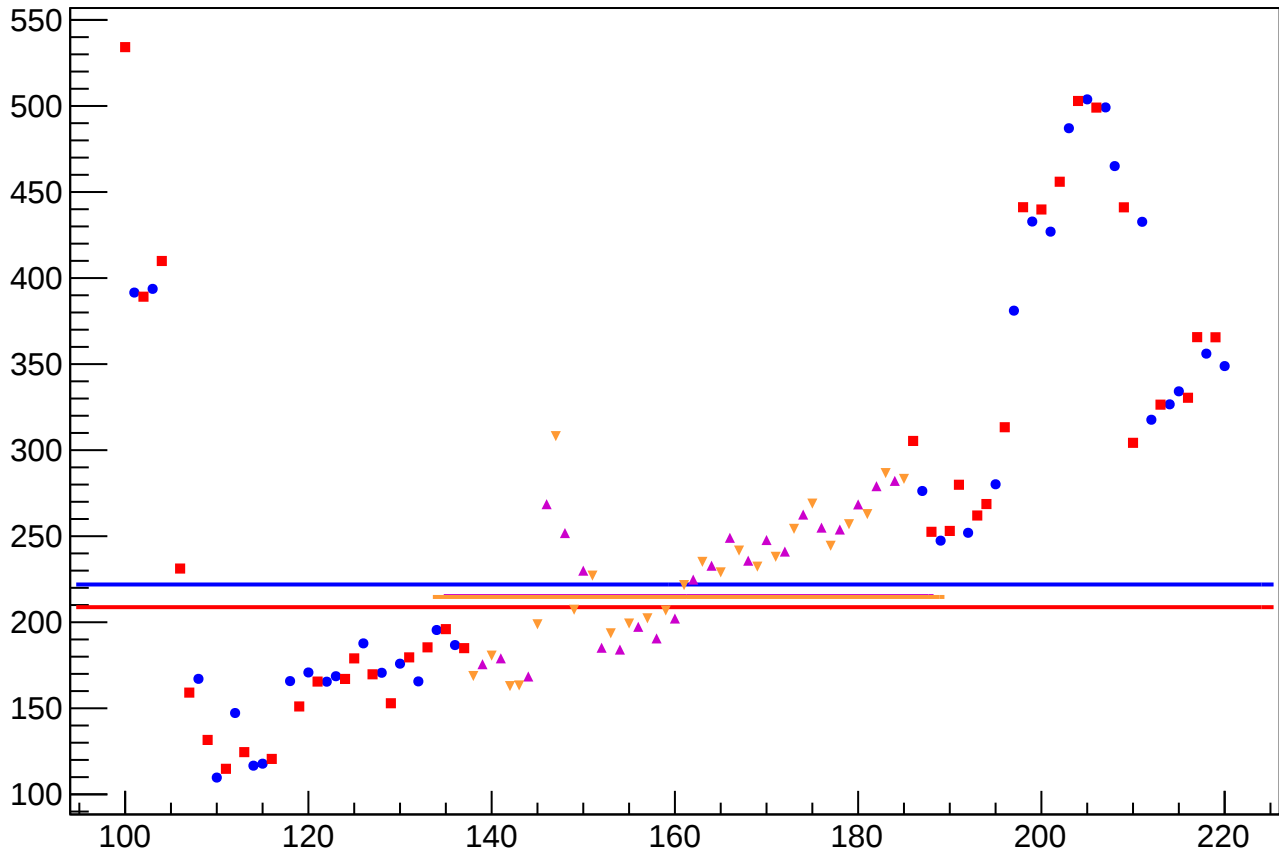
All: 8.834 ± 0.002 χ^2/NDF : 110561209.9/118

yield_bpm0l10WS_mean vs Slug, Sign Corrected



Right In: 141095.703 $\pm$ 0.057	χ^2/NDF : 561855126.5/33	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: 141026.122 $\pm$ 0.039	χ^2/NDF : 1195975484.4/47
Right Out: 140966.034 $\pm$ 0.053	χ^2/NDF : 631320388.6/36	In: 140421.758 $\pm$ 0.039	χ^2/NDF : 1104320171.4/50
Left In: 139838.724 $\pm$ 0.053	χ^2/NDF : 279573689.3/22	Out: 140395.238 $\pm$ 0.037	χ^2/NDF : 1188367850.1/60
		All: 140407.809 $\pm$ 0.027	χ^2/NDF : 229293553.0/100

yield_bpm0l10WS_rms vs Slug, Sign Corrected



Right In: 221.941 $\pm$ 0.040 χ^2 /NDF: 6539014.5/33

Left Out: 214.693 $\pm$ 0.036 χ^2 /NDF: 981105.5/24

Right Out: 208.764 $\pm$ 0.037 χ^2 /NDF: 6839937.7/36

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

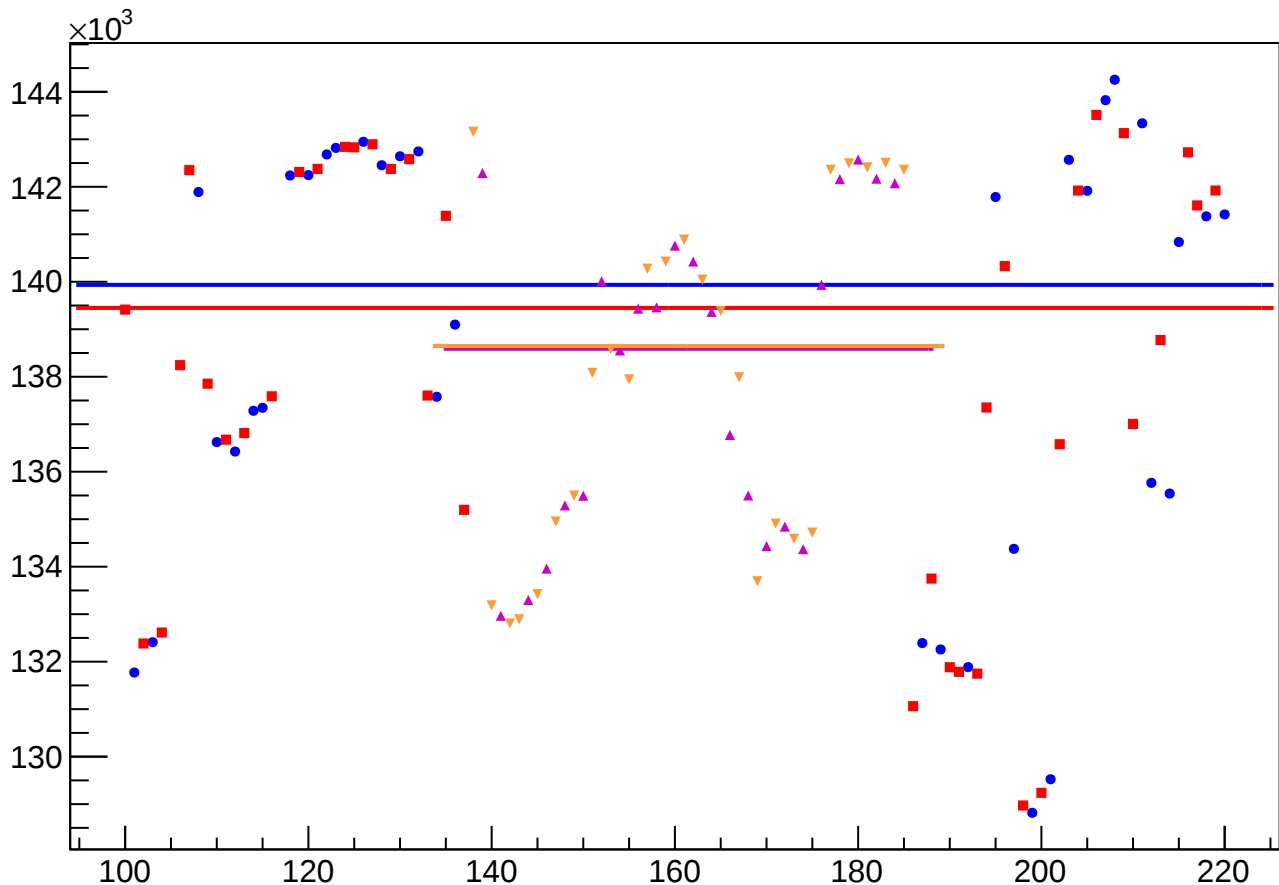
Right: 214.870 $\pm$ 0.027 χ^2 /NDF: 13436782.8/70

In: 218.338 $\pm$ 0.027 χ^2 /NDF: 7435983.4/56

Out: 211.823 $\pm$ 0.026 χ^2 /NDF: 7834078.4/61

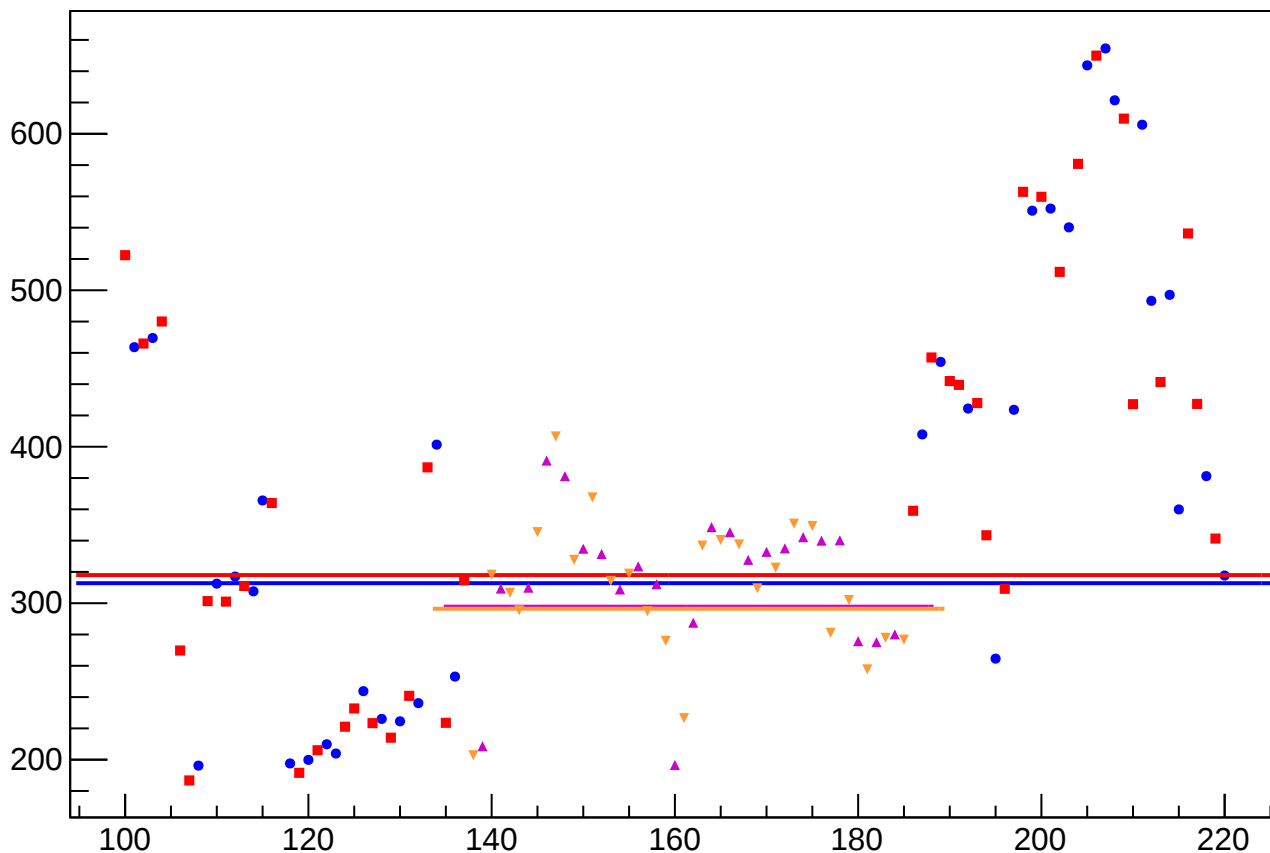
All: 214.911 $\pm$ 0.019 χ^2 /NDF: 15299941.4/11

yield_bpm0r03WS_mean vs Slug, Sign Corrected



Right In: 139934.682+/-0.079	$\chi^2/\text{NDF}: 2421711973.4/33$	Left: 138618.660+/-0.051	$\chi^2/\text{NDF}: 4497021019.3/4$
Left Out: 138646.366+/-0.071	$\chi^2/\text{NDF}: 2548637600.4/24$	Right: 139690.840+/-0.055	$\chi^2/\text{NDF}: 4968566916.3/$
Right Out: 139449.438+/-0.078	$\chi^2/\text{NDF}: 2527691371.9/36$	In: 139218.291+/-0.054	$\chi^2/\text{NDF}: 4525945926.4/50$
Left In: 138588.711+/-0.074	$\chi^2/\text{NDF}: 1948065195.1/22$	Out: 139008.486+/-0.053	$\chi^2/\text{NDF}: 5134261631.4/6$
		All: 139110.938+/-0.038	$\chi^2/\text{NDF}: 966800620$

yield_bpm0r03WS_rms vs Slug, Sign Corrected



Right In: 312.795 $\pm$ 0.056 χ^2 /NDF: 5017299.9/33

Left Out: 296.464 $\pm$ 0.050 χ^2 /NDF: 893579.7/24

Right Out: 317.973 $\pm$ 0.055 χ^2 /NDF: 4722456.0/36

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

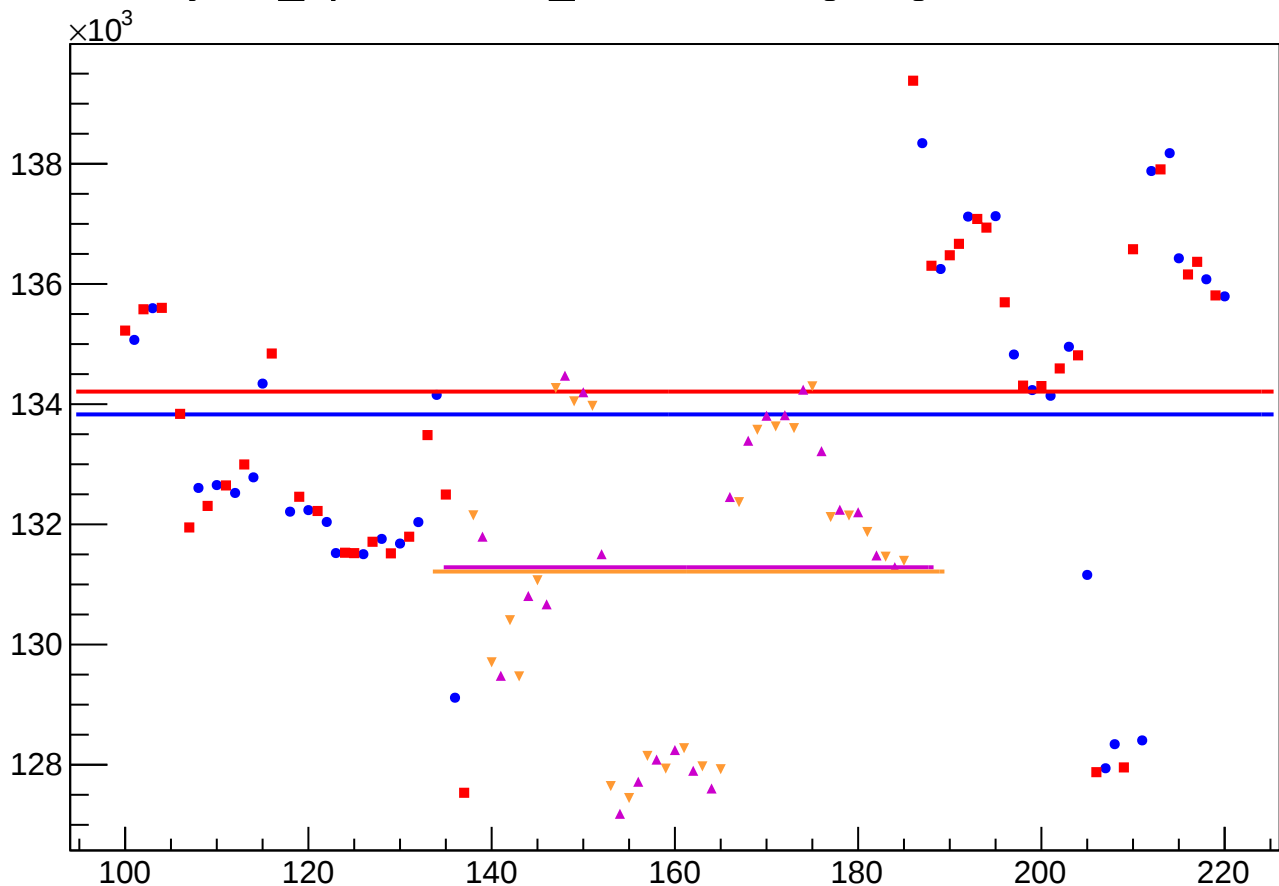
Right: 315.397 $\pm$ 0.039 χ^2 /NDF: 9744118.8/70

In: 304.800 $\pm$ 0.038 χ^2 /NDF: 6117689.3/56

Out: 306.163 $\pm$ 0.037 χ^2 /NDF: 5699144.4/61

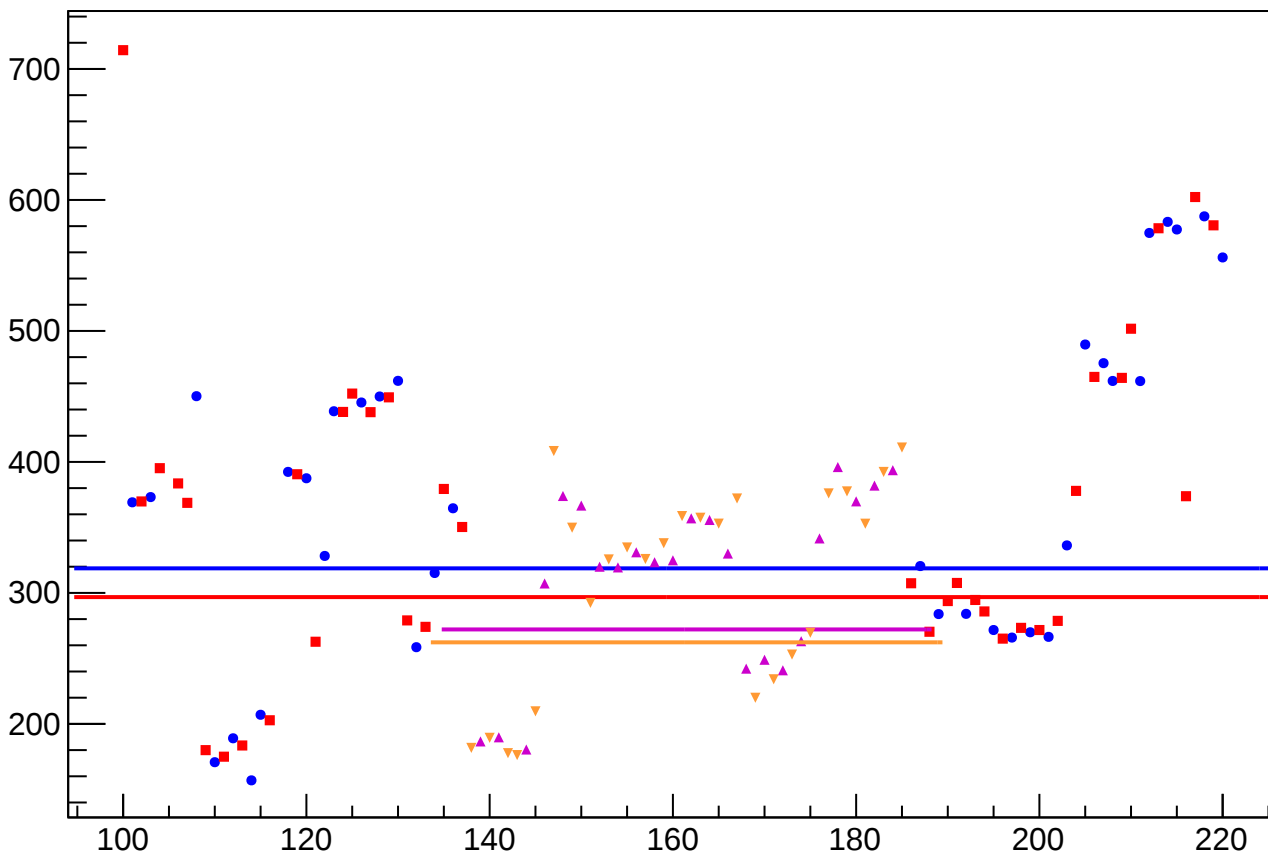
All: 305.498 $\pm$ 0.027 χ^2 /NDF: 11817491.4/118

yield_bpm0r05WS_mean vs Slug, Sign Corrected



Right In: 133829.628 $\pm$ 0.078	χ^2 /NDF: 1055672934.8/33	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: 134035.614 $\pm$ 0.053	χ^2 /NDF: 2127604639.2/4
Right Out: 134209.430 $\pm$ 0.072	χ^2 /NDF: 1059136433.6/36	In: 132387.231 $\pm$ 0.051	χ^2 /NDF: 2712050148.4/56
Left In: 131285.623 $\pm$ 0.068	χ^2 /NDF: 1056232192.1/22	Out: 132547.465 $\pm$ 0.048	χ^2 /NDF: 3197144976.0/6
		All: 132473.049 $\pm$ 0.035	χ^2 /NDF: 591438882.0/10

yield_bpm0r05WS_rms vs Slug, Sign Corrected



Right In: 318.751 ± 0.055 $\chi^2/\text{NDF}: 4050471.1/33$

Left Out: 262.260 ± 0.045 $\chi^2/\text{NDF}: 2818169.1/24$

Right Out: 296.807 ± 0.051 $\chi^2/\text{NDF}: 3814569.8/36$

Left In: 272.115 ± 0.048 $\chi^2/\text{NDF}: 2221925.0/22$

Left: 266.889 ± 0.033 $\chi^2/\text{NDF}: 5062151.8/47$

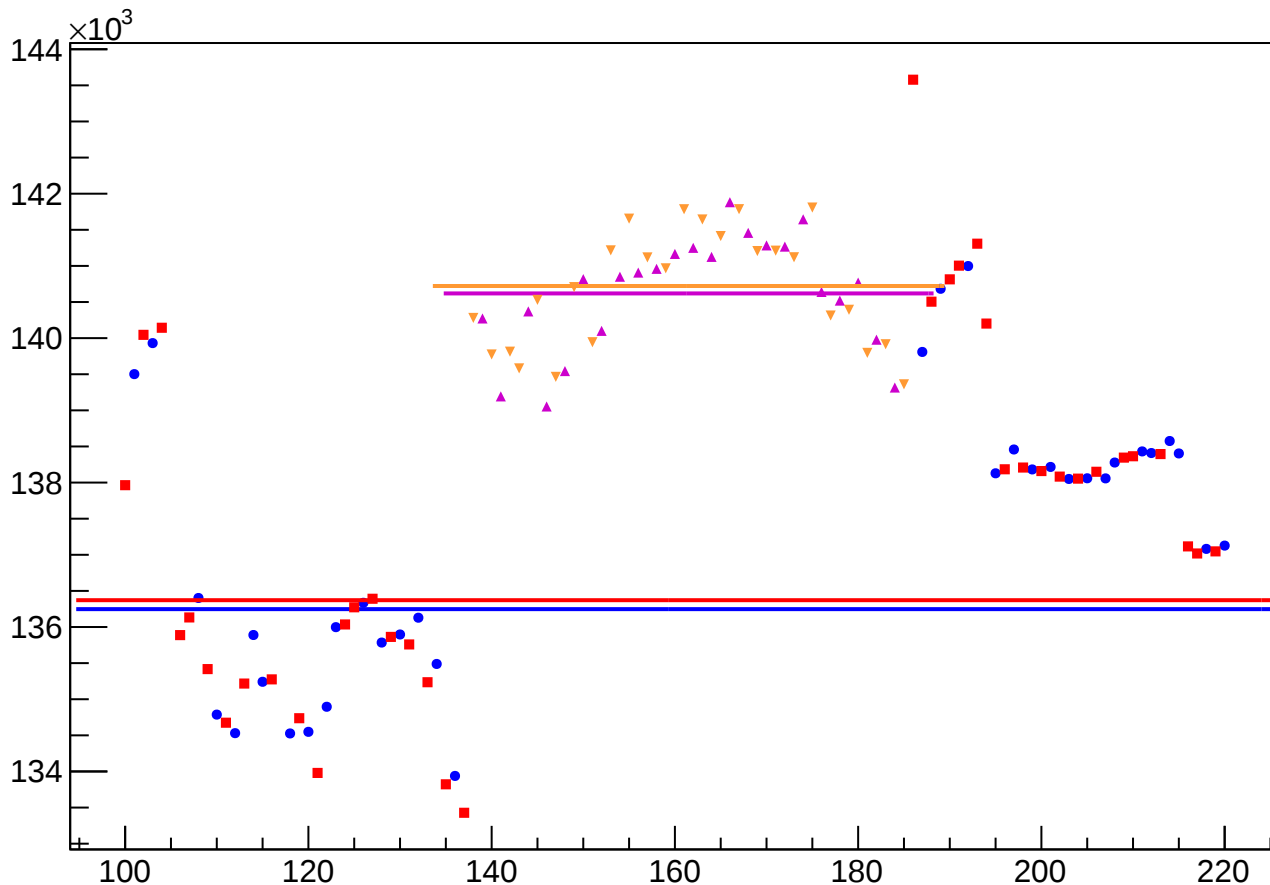
Right: 306.850 ± 0.037 $\chi^2/\text{NDF}: 7950461.4/70$

In: 292.309 ± 0.036 $\chi^2/\text{NDF}: 6675754.2/56$

Out: 277.633 ± 0.034 $\chi^2/\text{NDF}: 6889528.8/61$

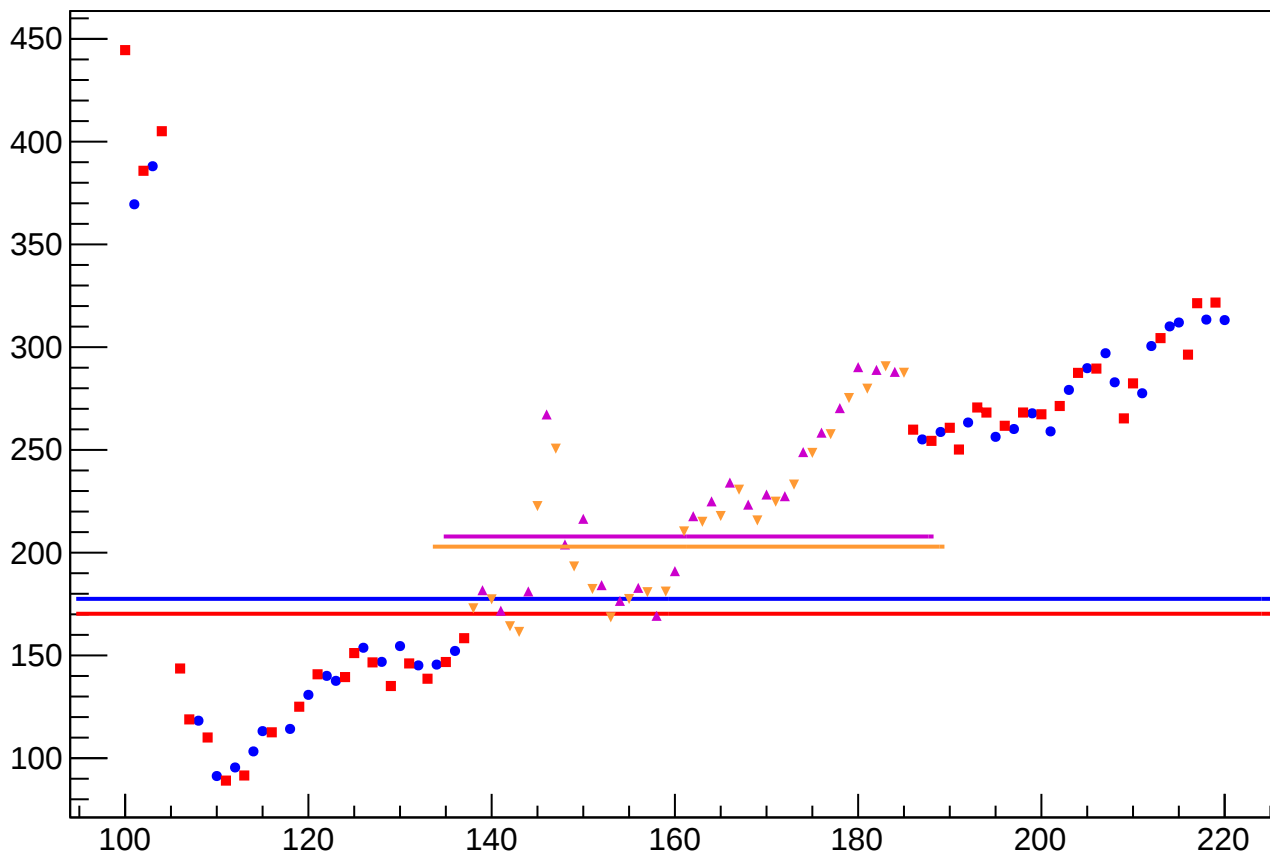
All: 284.449 ± 0.025 $\chi^2/\text{NDF}: 13652424.5/131$

yield_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 136247.617 $\pm$ 0.045	χ^2 /NDF: 1677025643.8/33	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: 136312.541 $\pm$ 0.031	χ^2 /NDF: 3903211398.9/10
Right Out: 136371.451 $\pm$ 0.043	χ^2 /NDF: 222232346.1/36	In: 138162.161 $\pm$ 0.034	χ^2 /NDF: 5992789065.3/50
Left In: 140619.038 $\pm$ 0.051	χ^2 /NDF: 200370178.0/22	Out: 138288.057 $\pm$ 0.032	χ^2 /NDF: 6988016917.0/6
		All: 138228.311 $\pm$ 0.023	χ^2 /NDF: 129880922.0/1

yield_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 177.526+/-0.032 χ^2/NDF : 6268104.5/33

Left Out: 202.934+/-0.034 χ^2/NDF :1052283.6/24

Right Out: 170.275+/-0.030 χ^2/NDF : 6734020.3/36

Left In: 207.872+/-0.036 χ^2/NDF :949200.3/22

Left: 205.270+/-0.025 χ^2/NDF : 2011329.4/47

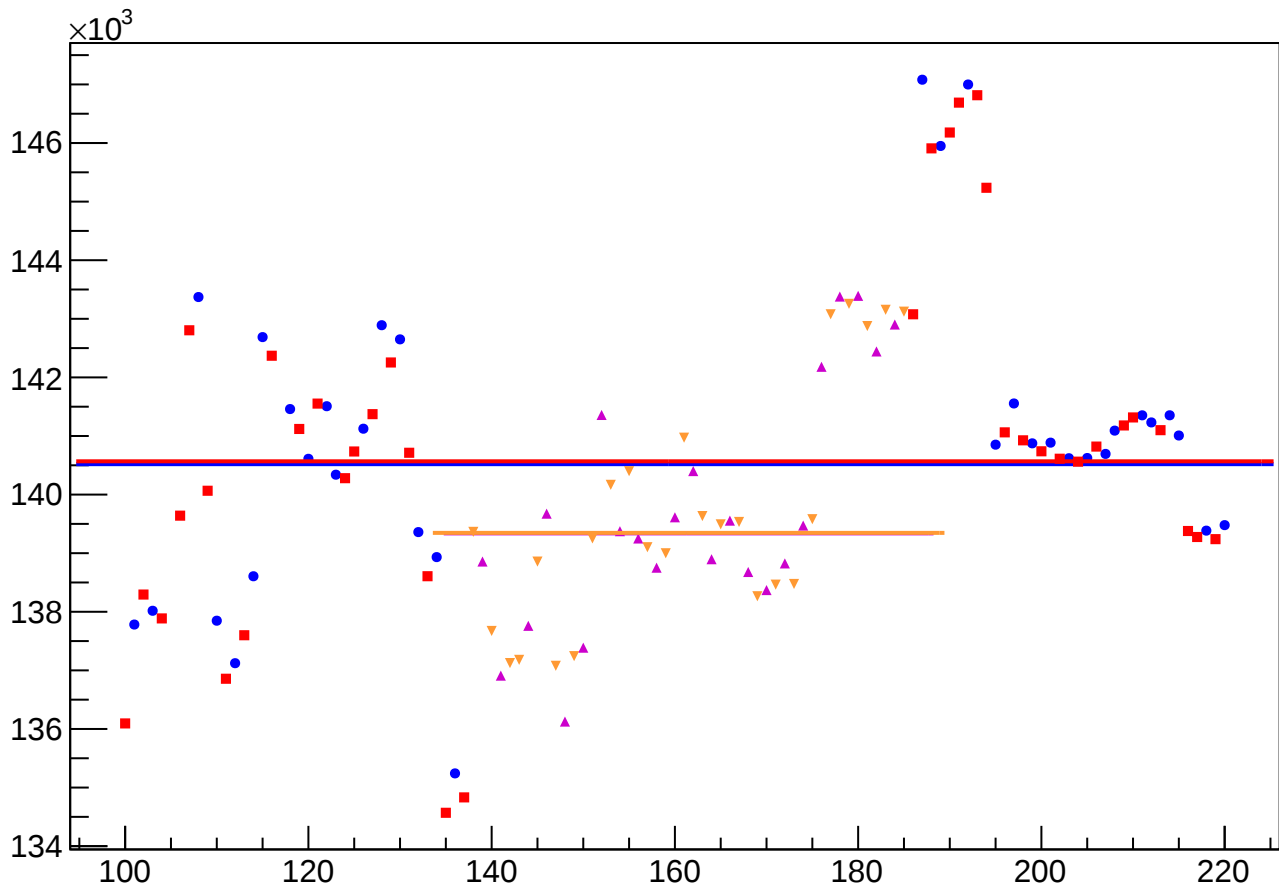
Right: 173.724+/-0.022 χ^2/NDF : 13029232.0/70

In: 190.816+/-0.024 χ^2/NDF :7613947.5/56

Out: 184.663+/-0.023 χ^2/NDF :8295609.6/61

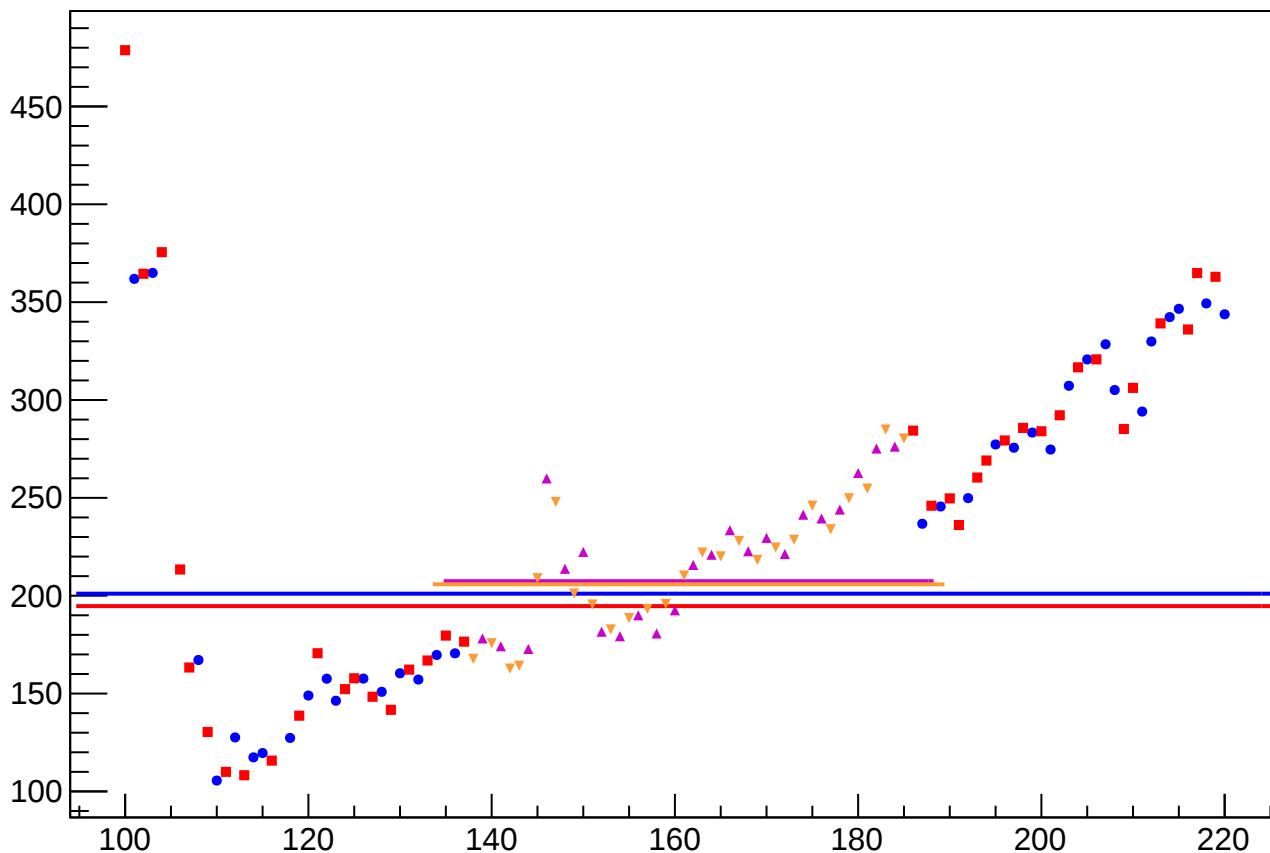
All: 187.583+/-0.016 χ^2/NDF : 15944366.3/13

yield_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 140519.205+/-0.050	χ^2/NDF : 2804256551.7/33	Left: 139342.403+/-0.035	χ^2/NDF : 2564192227.9/4
Left Out: 139346.604+/-0.049	χ^2/NDF : 1271172976.7/24	Right: 140544.654+/-0.035	χ^2/NDF : 6054536940.3/6
Right Out: 140568.100+/-0.048	χ^2/NDF : 3249787221.8/36	In: 139935.648+/-0.036	χ^2/NDF : 4370484529.9/50
Left In: 139337.874+/-0.051	χ^2/NDF : 1293003954.9/22	Out: 139966.792+/-0.034	χ^2/NDF : 4836927121.8/6
		All: 139951.832+/-0.025	χ^2/NDF : 92078064.2/10

yield_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 201.043+/-0.036 χ^2/NDF : 5172786.2/33

Left Out: 205.833+/-0.035 χ^2/NDF : 738666.4/24

Right Out: 194.691+/-0.034 χ^2/NDF : 5536176.3/36

Left In: 207.416+/-0.036 χ^2/NDF : 701955.3/22

Left: 206.595+/-0.025 χ^2/NDF : 1441628.2/47

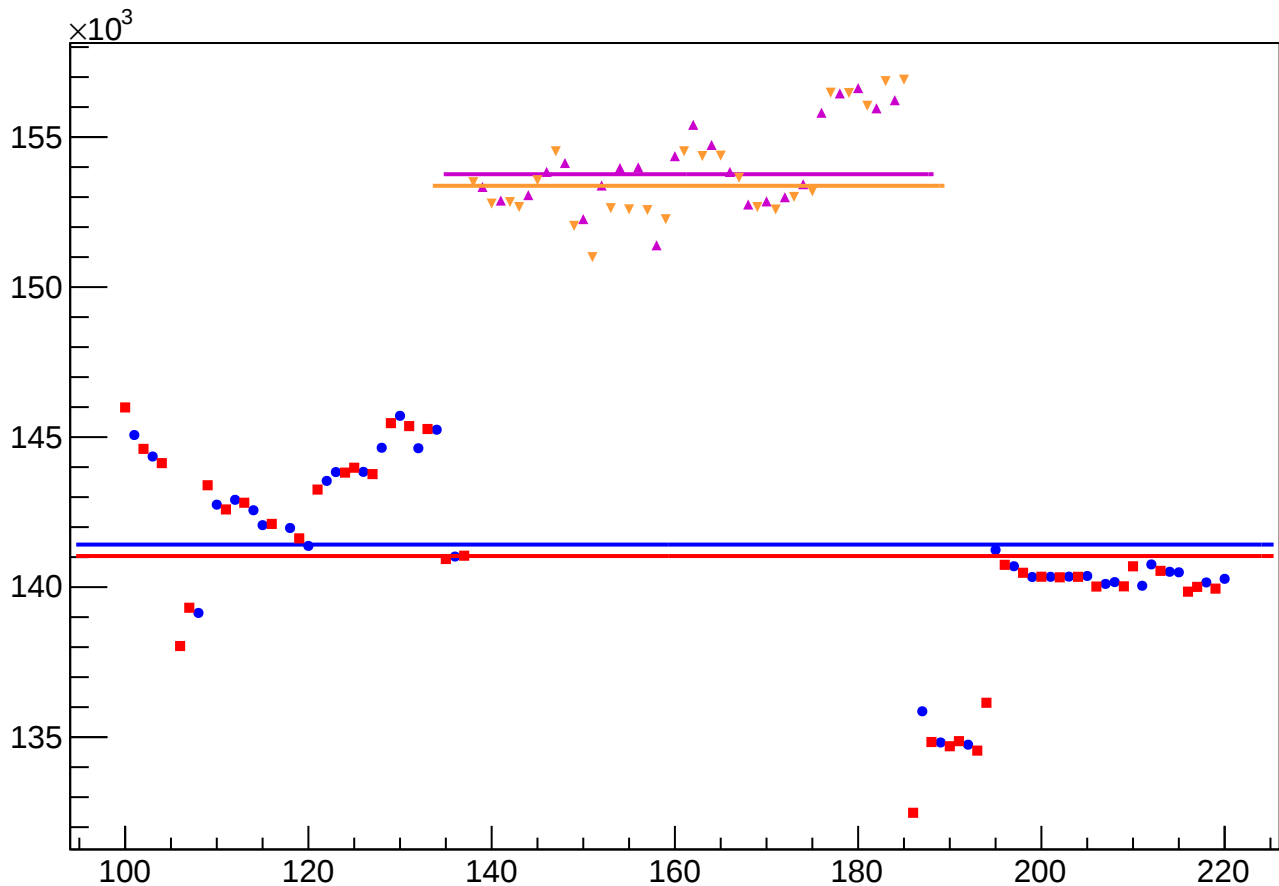
Right: 197.737+/-0.025 χ^2/NDF : 10725609.6/70

In: 204.191+/-0.025 χ^2/NDF : 5890643.8/56

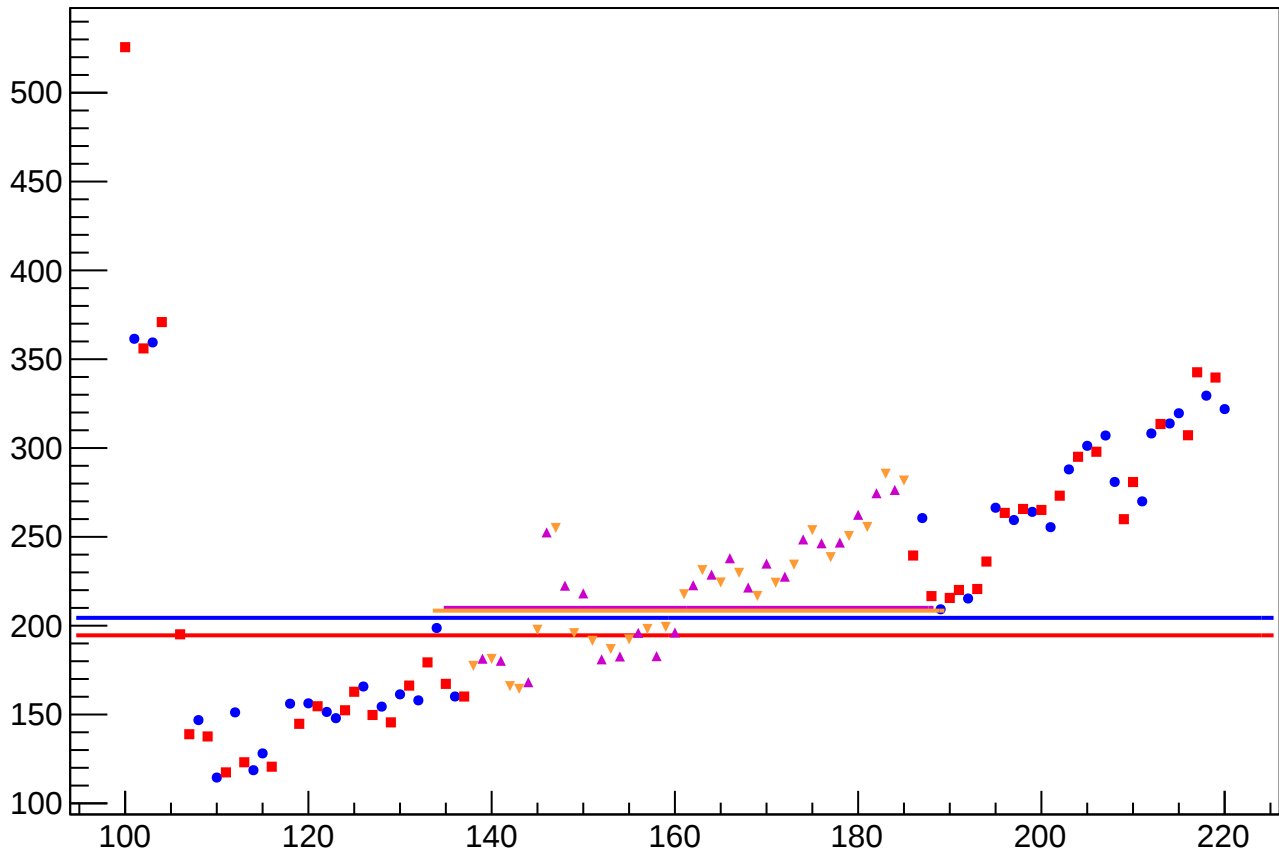
Out: 200.176+/-0.024 χ^2/NDF : 6327417.1/61

All: 202.105+/-0.018 χ^2/NDF : 12231186.4/11

yield_bpm0i05WS_mean vs Slug, Sign Corrected



yield_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 204.415+/-0.035 χ^2/NDF : 3836755.2/33

Left Out: 208.466+/-0.035 χ^2/NDF : 720894.7/24

Right Out: 194.568+/-0.033 χ^2/NDF : 4171349.8/36

Left In: 210.038+/-0.036 χ^2/NDF : 702369.5/22

Left: 209.222+/-0.025 χ^2/NDF : 1424233.1/47

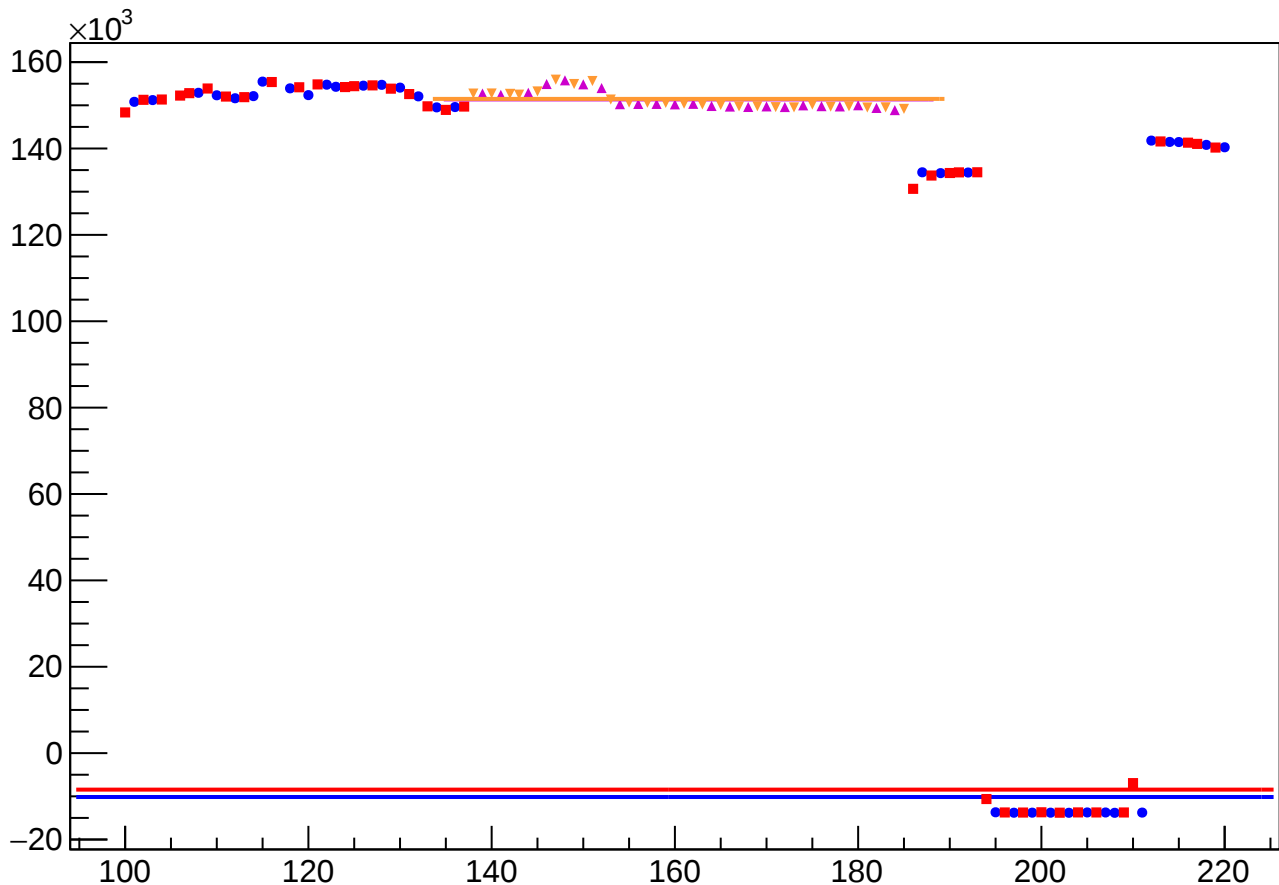
Right: 199.205+/-0.024 χ^2/NDF : 8049029.2/70

In: 207.151+/-0.025 χ^2/NDF : 4551391.6/56

Out: 201.187+/-0.024 χ^2/NDF : 4974696.6/61

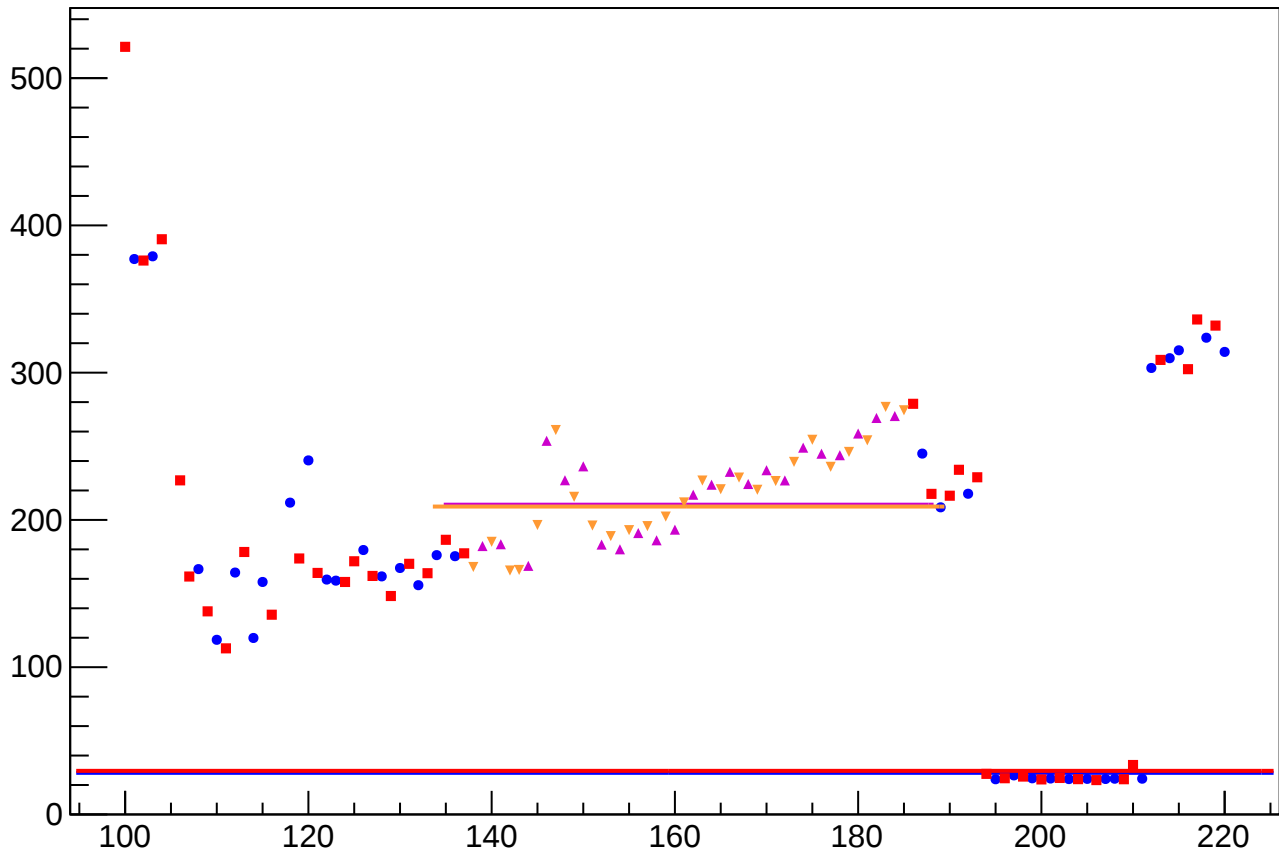
All: 204.024+/-0.018 χ^2/NDF : 9555045.9/118

yield_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -10157.875+/-0.009	$\chi^2/\text{NDF}: 6768505519508.1/33$	Left: 151425.512+/-0.036	$\chi^2/\text{NDF}: 2906409079.9/4$
Left Out: 151483.385+/-0.050	$\chi^2/\text{NDF}: 1481910066.9/24$	Right: -9376.377+/-0.007	$\chi^2/\text{NDF}: 1460172474394$
Right Out: -8447.150+/-0.010	$\chi^2/\text{NDF}: 7817457720857.8/36$	In: -5133.614+/-0.009	$\chi^2/\text{NDF}: 16337253580362.8$
Left In: 151363.165+/-0.051	$\chi^2/\text{NDF}: 1421662089.0/22$	Out: -2129.891+/-0.010	$\chi^2/\text{NDF}: 17836366611168$
		All: -3754.956+/-0.007	$\chi^2/\text{NDF}: 3422400845$

yield_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 28.269+/-0.007 χ^2/NDF : 17749221.7/33

Left Out: 209.076+/-0.035 χ^2/NDF : 708260.3/24

Right Out: 29.610+/-0.007 χ^2/NDF : 18443496.1/36

Left In: 210.345+/-0.036 χ^2/NDF : 677747.7/22

Left: 209.687+/-0.025 χ^2/NDF : 1386640.1/47

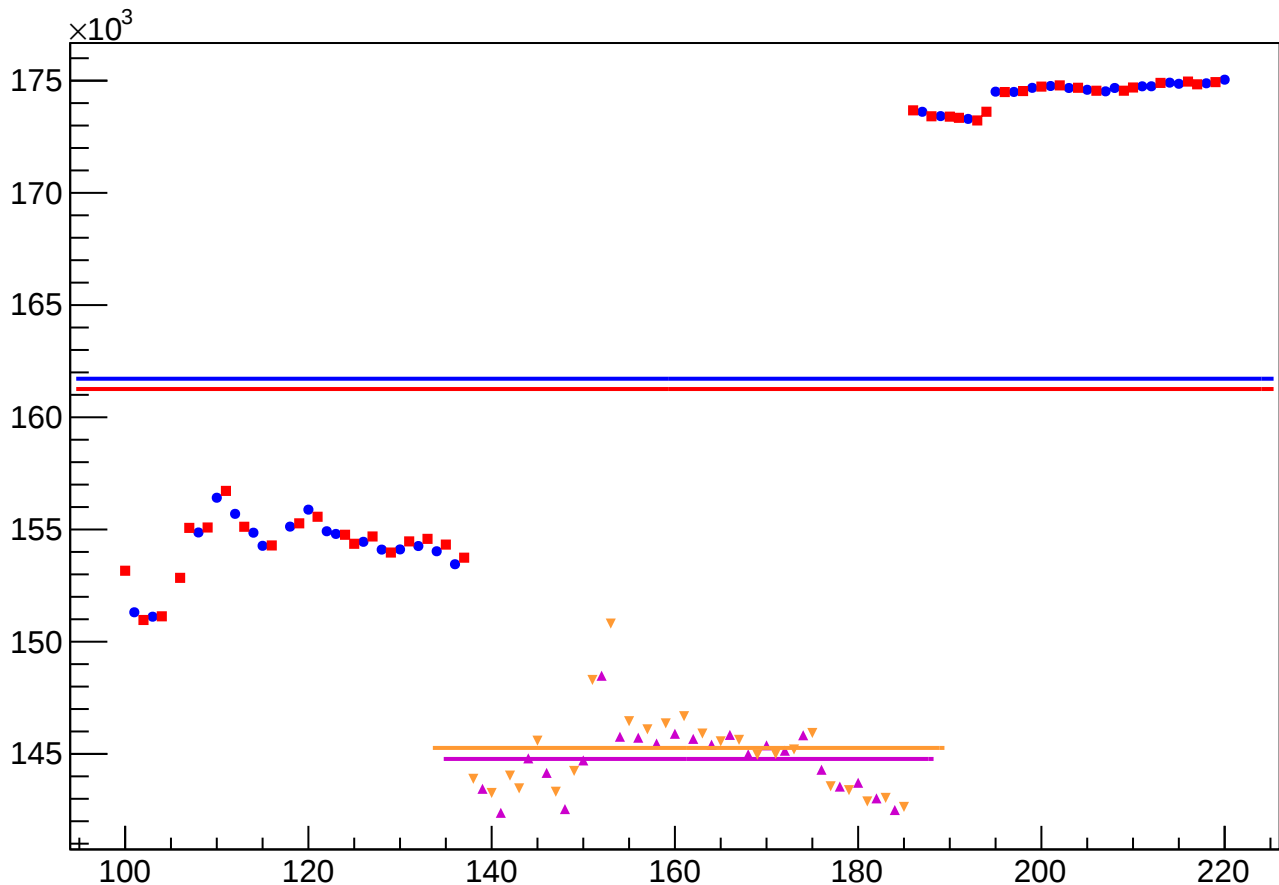
Right: 28.882+/-0.005 χ^2/NDF : 36212080.1/70

In: 33.933+/-0.006 χ^2/NDF : 42741508.1/56

Out: 36.699+/-0.007 χ^2/NDF : 44380048.1/61

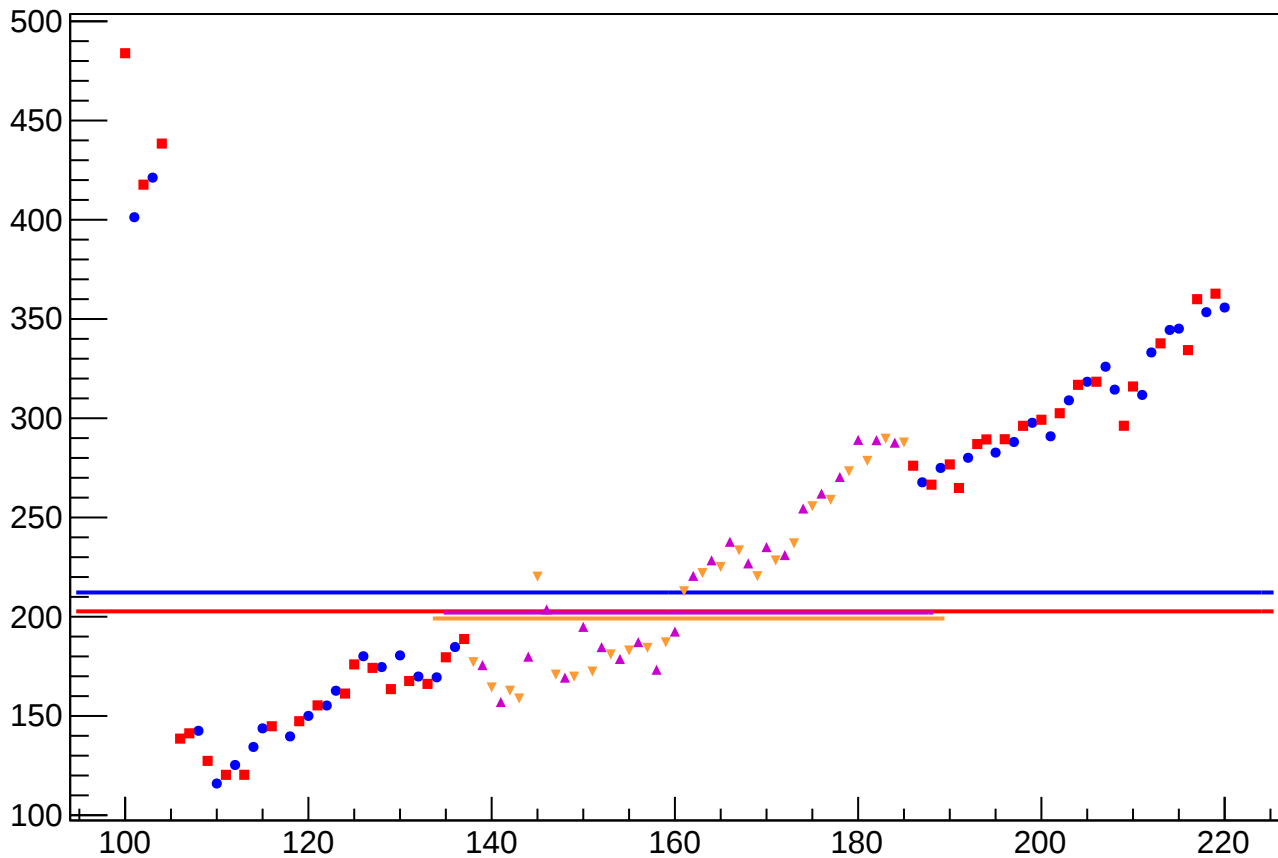
All: 35.202+/-0.005 χ^2/NDF : 87207013.7/118

yield_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: 161718.297 $\pm$ 0.053	χ^2 /NDF: 32172135606.4/33	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: 161475.834 $\pm$ 0.036	χ^2 /NDF: 66326026210.9/33
Right Out: 161259.257 $\pm$ 0.050	χ^2 /NDF: 34113834623.9/36	In: 152725.369 $\pm$ 0.036	χ^2 /NDF: 87923648739.7/5
Left In: 144776.016 $\pm$ 0.050	χ^2 /NDF: 918120275.4/22	Out: 152864.198 $\pm$ 0.034	χ^2 /NDF: 89925152464.9/33
		All: 152798.268 $\pm$ 0.025	χ^2 /NDF: 177856563.0/33

yield_bpm1i02WS_rms vs Slug, Sign Corrected



Right In: 212.221+/-0.037 χ^2/NDF : 4990942.5/33

Left Out: 199.118+/-0.034 χ^2/NDF : 1152231.0/24

Right Out: 202.704+/-0.035 χ^2/NDF : 5393103.9/36

Left In: 202.090+/-0.035 χ^2/NDF : 1057833.2/22

Left: 200.538+/-0.024 χ^2/NDF : 2213821.5/47

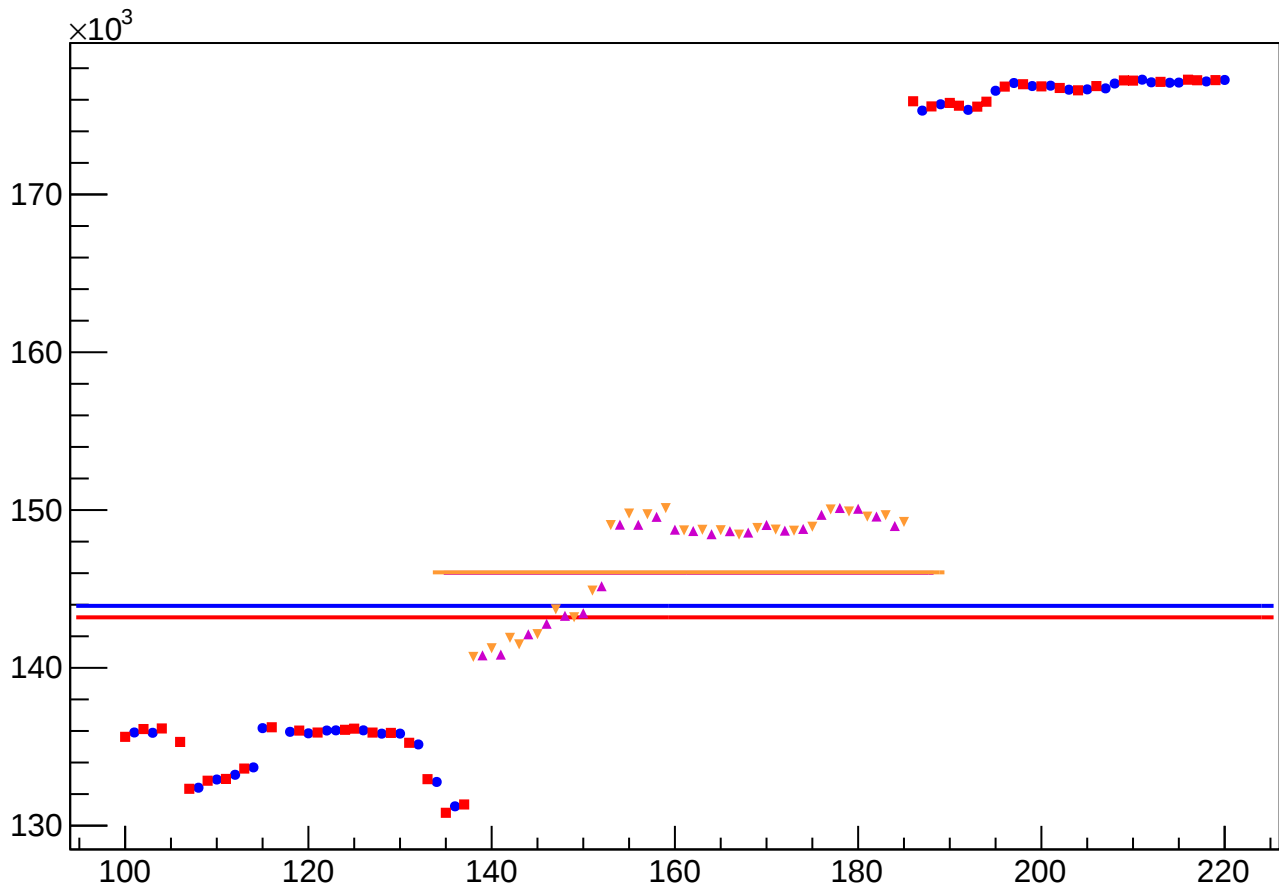
Right: 207.194+/-0.026 χ^2/NDF : 10418477.7/70

In: 206.843+/-0.026 χ^2/NDF : 6087984.6/56

Out: 200.822+/-0.024 χ^2/NDF : 6550774.5/61

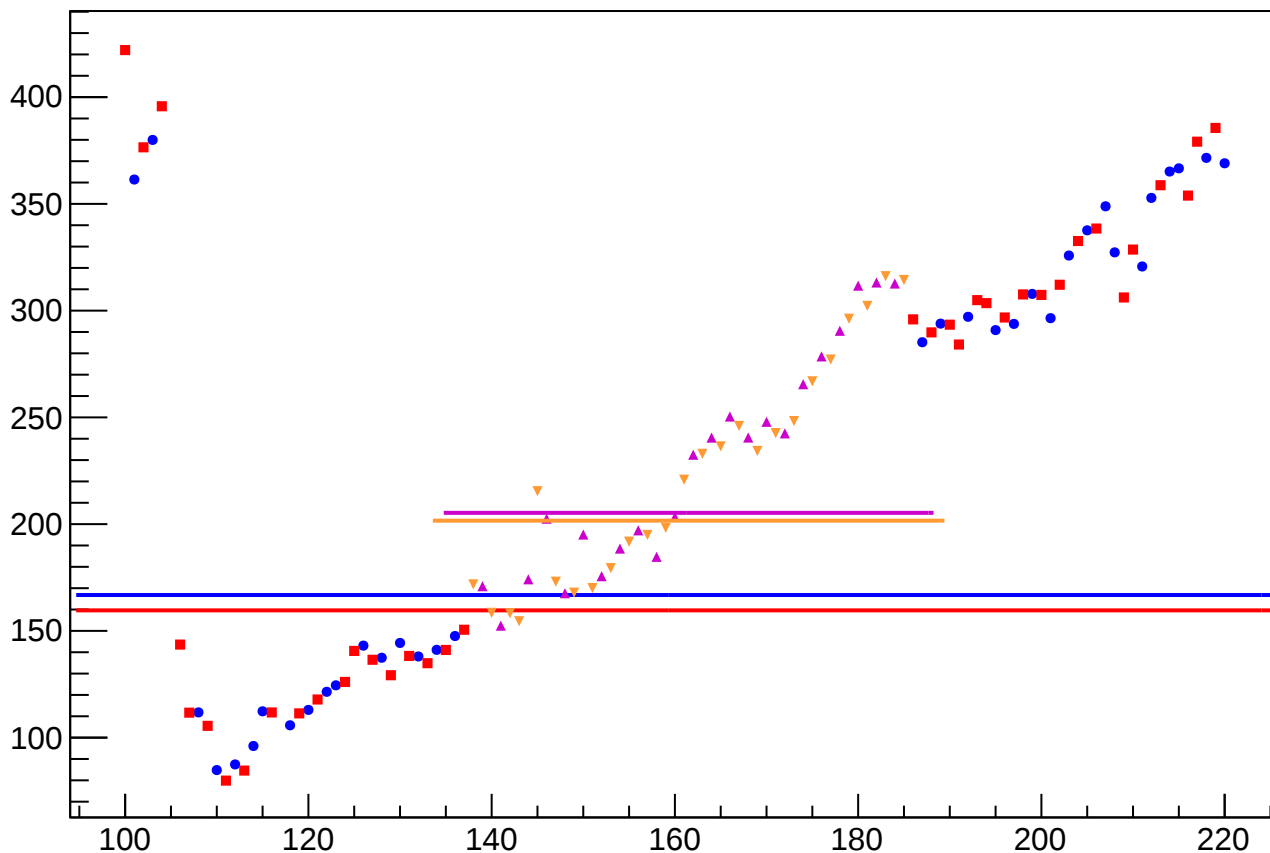
All: 203.681+/-0.018 χ^2/NDF : 12667969.4/131

yield_bpm1i04WS_mean vs Slug, Sign Corrected



Right In: 143928.437 $\pm$ 0.044	χ^2/NDF : 162006402221.2/33	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: 143545.626 $\pm$ 0.031	χ^2/NDF : 333989611161
Right Out: 143200.788 $\pm$ 0.042	χ^2/NDF : 171841314748.0/36	In: 144835.074 $\pm$ 0.033	χ^2/NDF : 167563803414.0
Left In: 146020.015 $\pm$ 0.051	χ^2/NDF : 4591425371.4/22	Out: 144429.927 $\pm$ 0.032	χ^2/NDF : 179226222540.
		All: 144622.345 $\pm$ 0.023	χ^2/NDF : 346867523

yield_bpm1i04WS_rms vs Slug, Sign Corrected



Right In: 166.800 $\pm$ 0.031 χ^2 /NDF: 9009854.4/33

Left Out: 201.632 $\pm$ 0.034 χ^2 /NDF:1589564.0/24

Right Out: 159.610 $\pm$ 0.030 χ^2 /NDF: 9504739.1/36

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

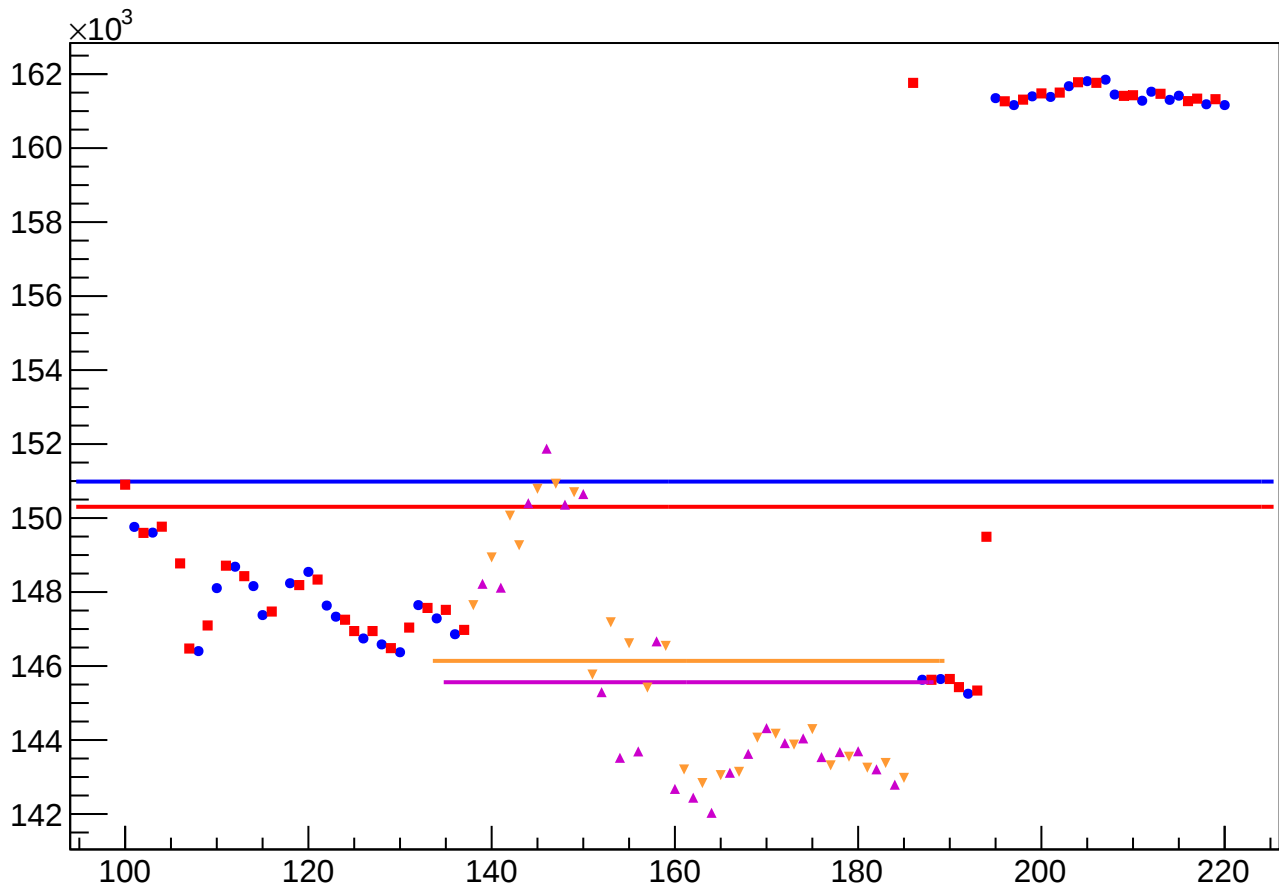
Right: 163.017 $\pm$ 0.022 χ^2 /NDF: 18542303.4/70

In: 183.483 $\pm$ 0.024 χ^2 /NDF:11089263.1/56

Out: 177.727 $\pm$ 0.022 χ^2 /NDF:11955326.2/61

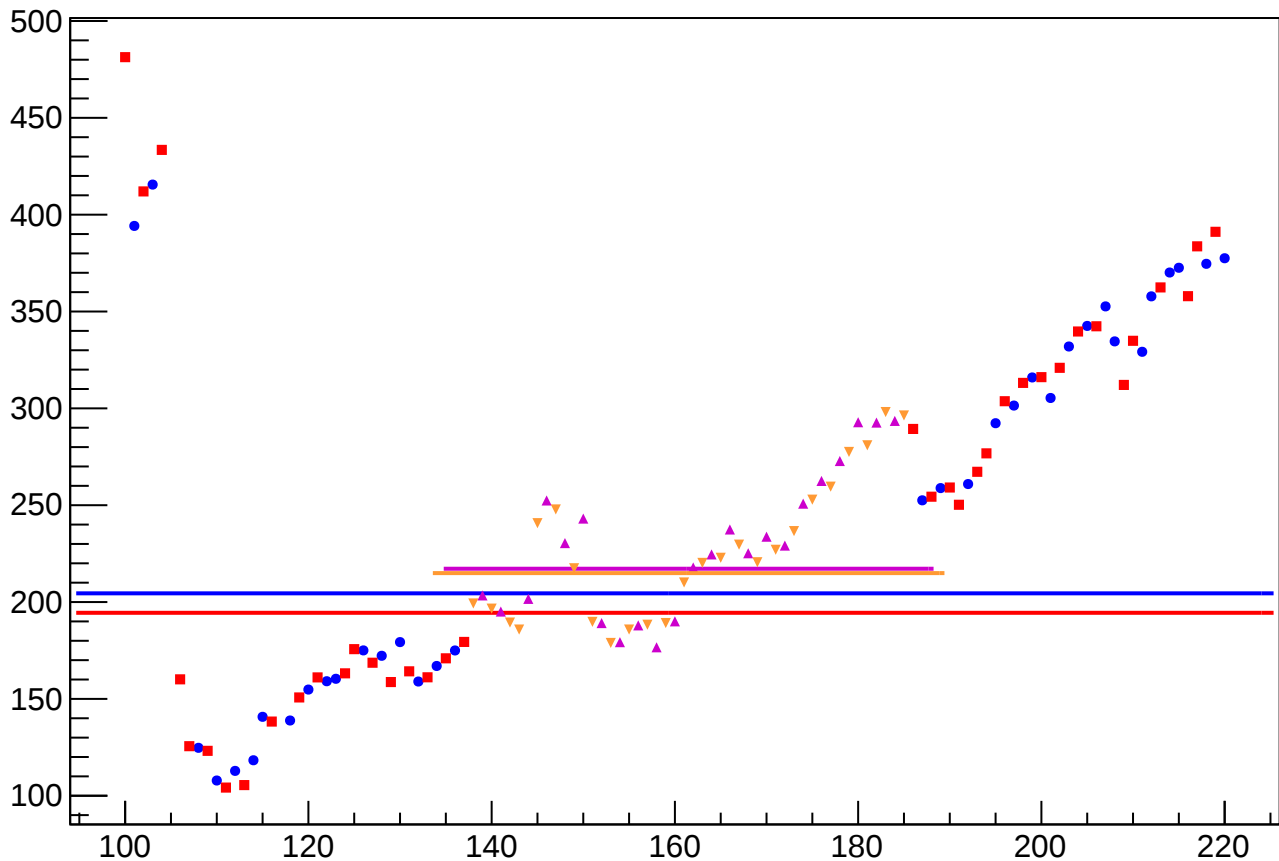
All: 180.461 $\pm$ 0.016 χ^2 /NDF: 23075871.5/13

yield_bpm1i06WS_mean vs Slug, Sign Corrected



Right In: 150986.025 $\pm$ 0.052	χ^2 /NDF: 14109911964.5/33	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: 150624.518 $\pm$ 0.036	χ^2 /NDF: 27497748938.4
Right Out: 150304.398 $\pm$ 0.049	χ^2 /NDF: 13296023397.9/36	In: 148339.464 $\pm$ 0.037	χ^2 /NDF: 22512854729.8/5
Left In: 145562.386 $\pm$ 0.053	χ^2 /NDF: 3054641996.0/22	Out: 148311.899 $\pm$ 0.035	χ^2 /NDF: 19487518902.7
		All: 148324.972 $\pm$ 0.026	χ^2 /NDF: 420006643

yield_bpm1i06WS_rms vs Slug, Sign Corrected



Right In: 204.500 $\pm$ 0.037 χ^2 /NDF: 6198376.6/33

Left Out: 214.945 $\pm$ 0.036 χ^2 /NDF: 728515.5/24

Right Out: 194.451 $\pm$ 0.034 χ^2 /NDF: 6580476.2/36

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

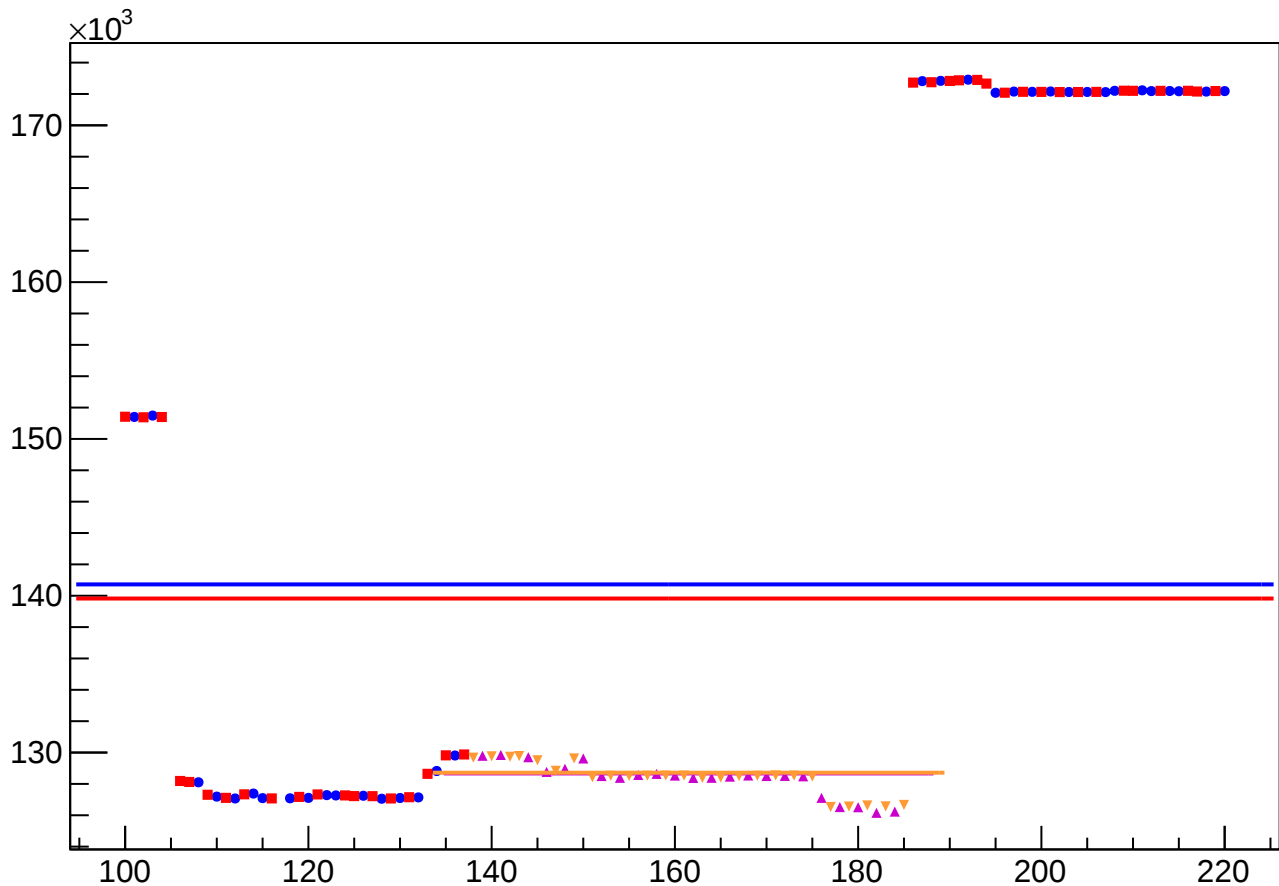
Right: 199.170 $\pm$ 0.025 χ^2 /NDF: 12818770.9/70

In: 210.699 $\pm$ 0.026 χ^2 /NDF: 7021852.4/56

Out: 204.255 $\pm$ 0.025 χ^2 /NDF: 7478085.0/61

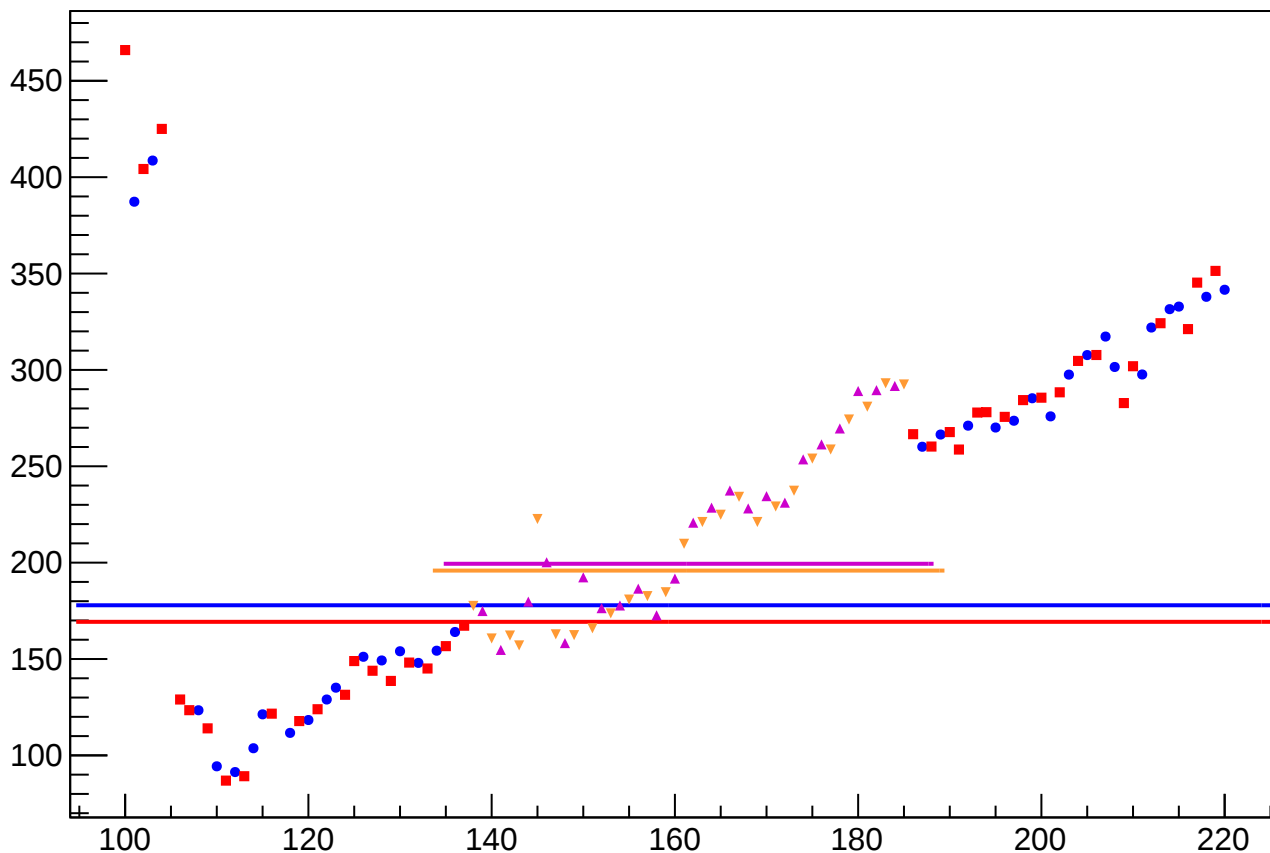
All: 207.311 $\pm$ 0.018 χ^2 /NDF: 14531713.5/13

yield_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: 140723.008 $\pm$ 0.046	χ^2 /NDF: 195754779362.3/33	Left: 128691.898 $\pm$ 0.034	χ^2 /NDF: 681729975.4/47
Left Out: 128714.507 $\pm$ 0.047	χ^2 /NDF: 348178101.1/24	Right: 140245.870 $\pm$ 0.031	χ^2 /NDF: 407790196976
Right Out: 139822.313 $\pm$ 0.043	χ^2 /NDF: 211830270618.2/36	In: 135104.547 $\pm$ 0.033	χ^2 /NDF: 228422167777.0
Left In: 128667.013 $\pm$ 0.049	χ^2 /NDF: 333059477.6/22	Out: 134709.784 $\pm$ 0.032	χ^2 /NDF: 242716383683.
		All: 134896.480 $\pm$ 0.023	χ^2 /NDF: 471211980

yield_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 177.884 $\pm$ 0.032 χ^2/NDF : 7140761.2/33

Left Out: 195.883 $\pm$ 0.033 χ^2/NDF :1313361.5/24

Right Out: 169.292 $\pm$ 0.030 χ^2/NDF : 7617094.6/36

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

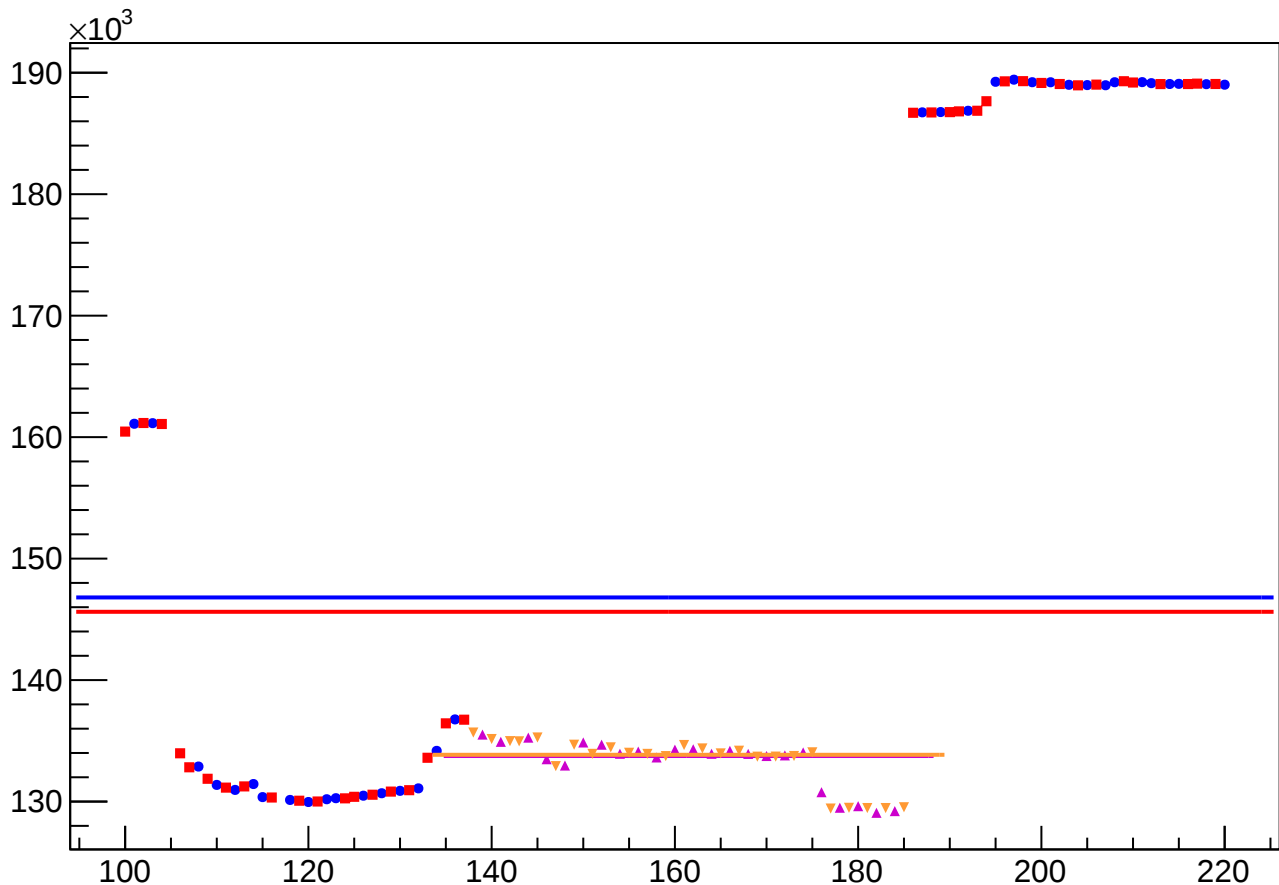
Right: 173.332 $\pm$ 0.022 χ^2/NDF : 14795197.1/70

In: 187.918 $\pm$ 0.024 χ^2/NDF :8512685.2/56

Out: 181.531 $\pm$ 0.022 χ^2/NDF :9280468.1/61

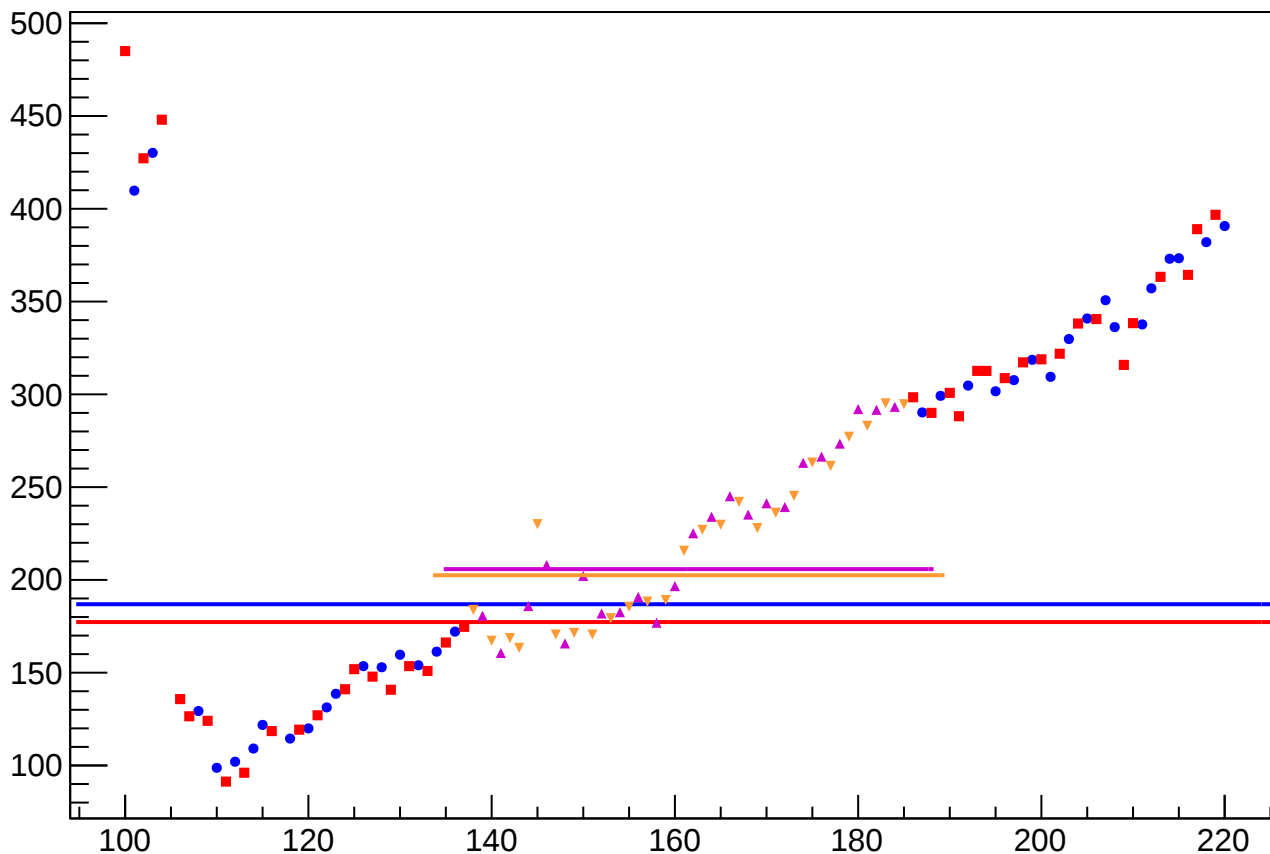
All: 184.551 $\pm$ 0.016 χ^2/NDF : 17831595.7/11

yield_bpm2i02WS_mean vs Slug, Sign Corrected



Right In: 146803.510 $\pm$ 0.049 χ^2 /NDF: 267110222553.8/33
 Left Out: 133850.586 $\pm$ 0.048 χ^2 /NDF: 1080107831.1/24
 Right Out: 145622.311 $\pm$ 0.046 χ^2 /NDF: 283560081089.5/36
 Left In: 133749.630 $\pm$ 0.051 χ^2 /NDF: 954069486.7/22
 Left: 133802.452 $\pm$ 0.035 χ^2 /NDF: 2036267179.3/4
 Right: 146176.212 $\pm$ 0.033 χ^2 /NDF: 550982544282
 In: 140513.325 $\pm$ 0.035 χ^2 /NDF: 302665819347.1
 Out: 140042.487 $\pm$ 0.033 χ^2 /NDF: 315987057766.
 All: 140265.044 $\pm$ 0.024 χ^2 /NDF: 61874795

yield_bpm2i02WS_rms vs Slug, Sign Corrected



Right In: 186.892 $\pm$ 0.034 χ^2/NDF : 7916349.8/33

Left Out: 202.527 $\pm$ 0.034 χ^2/NDF :1211991.5/24

Right Out: 177.290 $\pm$ 0.032 χ^2/NDF : 8441727.5/36

Left In: 205.808 $\pm$ 0.036 χ^2/NDF :1094330.7/22

Left: 204.091 $\pm$ 0.025 χ^2/NDF : 2310735.8/47

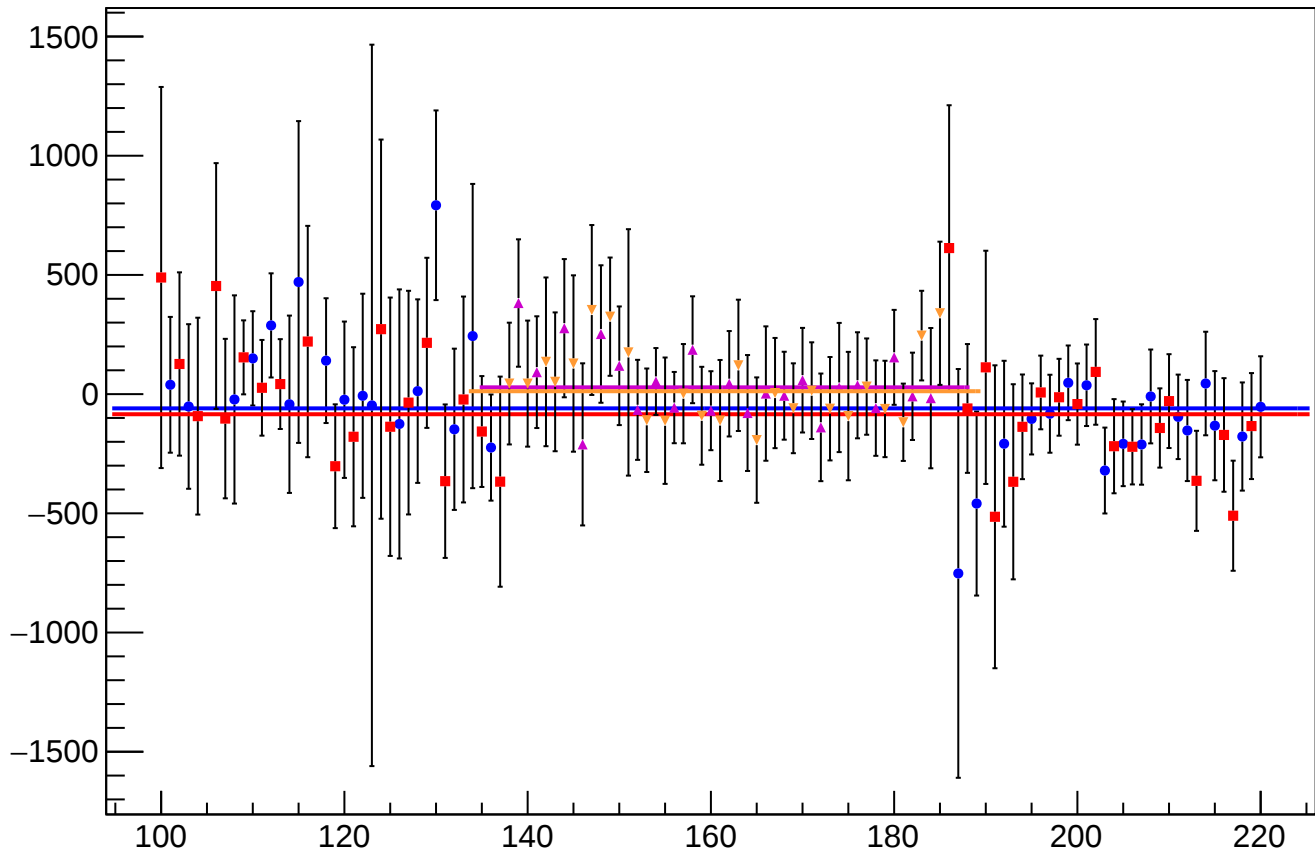
Right: 181.793 $\pm$ 0.024 χ^2/NDF : 16399347.1/70

In: 196.007 $\pm$ 0.025 χ^2/NDF :9155988.6/56

Out: 189.252 $\pm$ 0.023 χ^2/NDF :9941880.5/61

All: 192.445 $\pm$ 0.017 χ^2/NDF : 19137002.1/11

asym_bcm_an_ds_mean vs Slug, Sign Corrected



Right In: -59.738 ± 41.080 χ^2/NDF : 17.8/33

Left Out: 12.180 ± 47.531 χ^2/NDF : 8.6/24

Right Out: -84.366 ± 40.971 χ^2/NDF : 18.9/36

Left In: 28.452 ± 44.688 χ^2/NDF : 6.7/22

Left: 20.817 ± 32.558 χ^2/NDF : 15.3/47

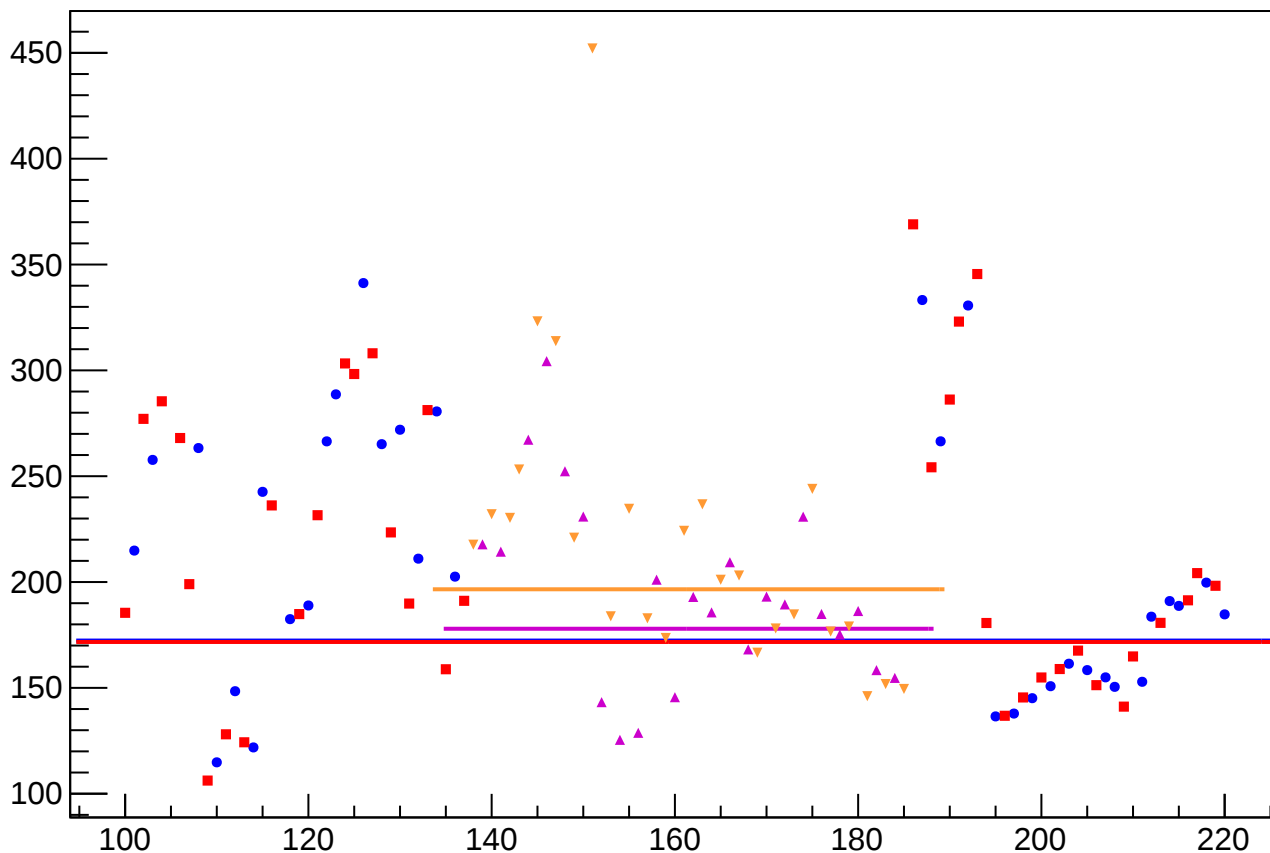
Right: -72.085 ± 29.009 χ^2/NDF : 36.9/70

In: -19.347 ± 30.243 χ^2/NDF : 26.6/56

Out: -43.210 ± 31.033 χ^2/NDF : 29.9/61

All: -30.971 ± 21.659 χ^2/NDF : 56.8/118

asym_bcm_an_ds_rms vs Slug, Sign Corrected



Right In: 172.350+/-0.029 χ^2/NDF : 2219663.2/33

Left Out: 196.576+/-0.034 χ^2/NDF : 1778719.0/24

Right Out: 171.688+/-0.029 χ^2/NDF : 2935986.0/36

Left In: 177.933+/-0.032 χ^2/NDF : 1605780.8/22

Left: 186.680+/-0.023 χ^2/NDF : 3547823.4/47

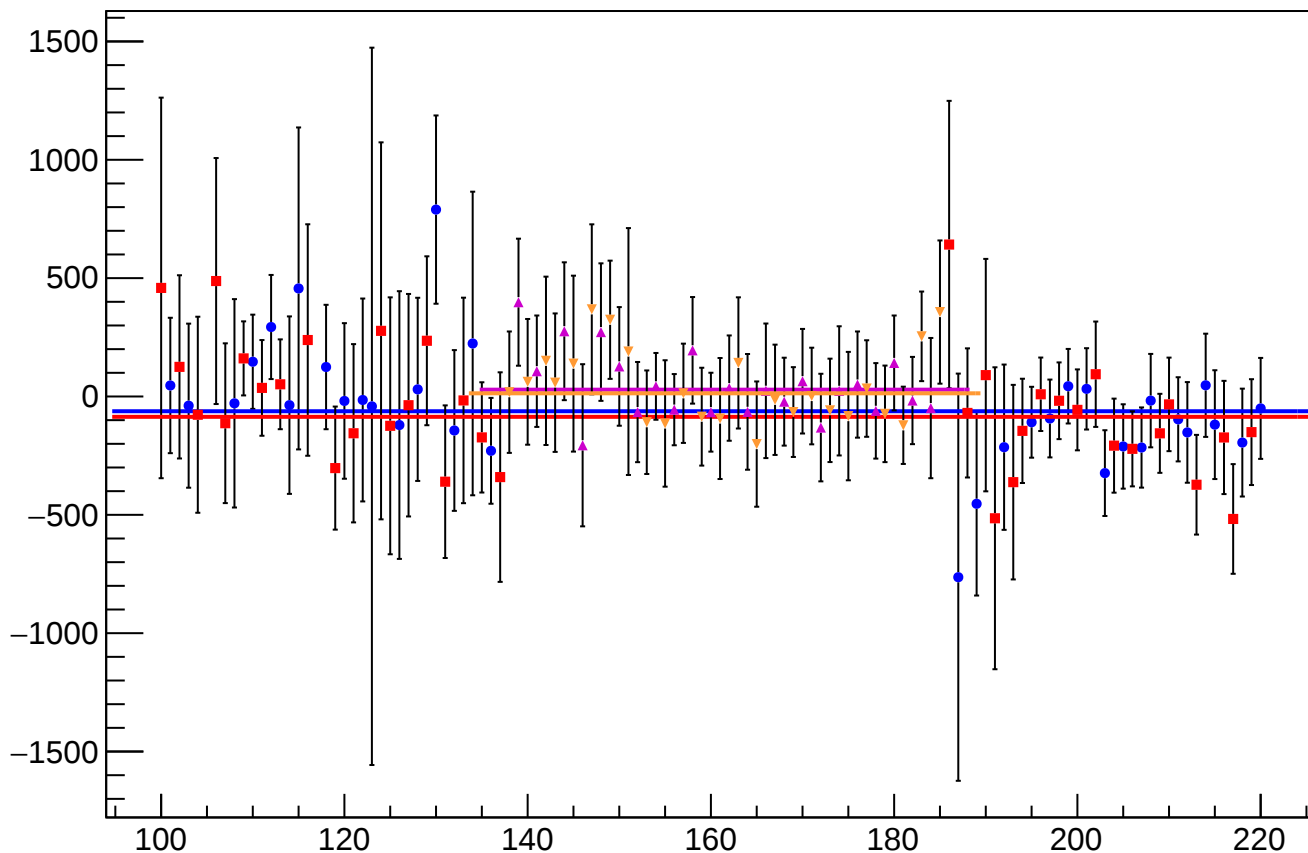
Right: 172.018+/-0.021 χ^2/NDF : 5155909.6/70

In: 174.907+/-0.021 χ^2/NDF : 3842361.6/56

Out: 182.297+/-0.022 χ^2/NDF : 5029304.2/61

All: 178.507+/-0.015 χ^2/NDF : 8929841.5/118

asym_bcm_an_ds3_mean vs Slug, Sign Corrected



Right In: -62.345 ± 41.268 $\chi^2/\text{NDF}: 17.7/33$

Left Out: 13.395 ± 47.862 $\chi^2/\text{NDF}: 9.0/24$

Right Out: -85.913 ± 41.168 $\chi^2/\text{NDF}: 19.5/36$

Left In: 28.806 ± 44.980 $\chi^2/\text{NDF}: 6.8/22$

Left: 21.578 ± 32.777 $\chi^2/\text{NDF}: 15.9/47$

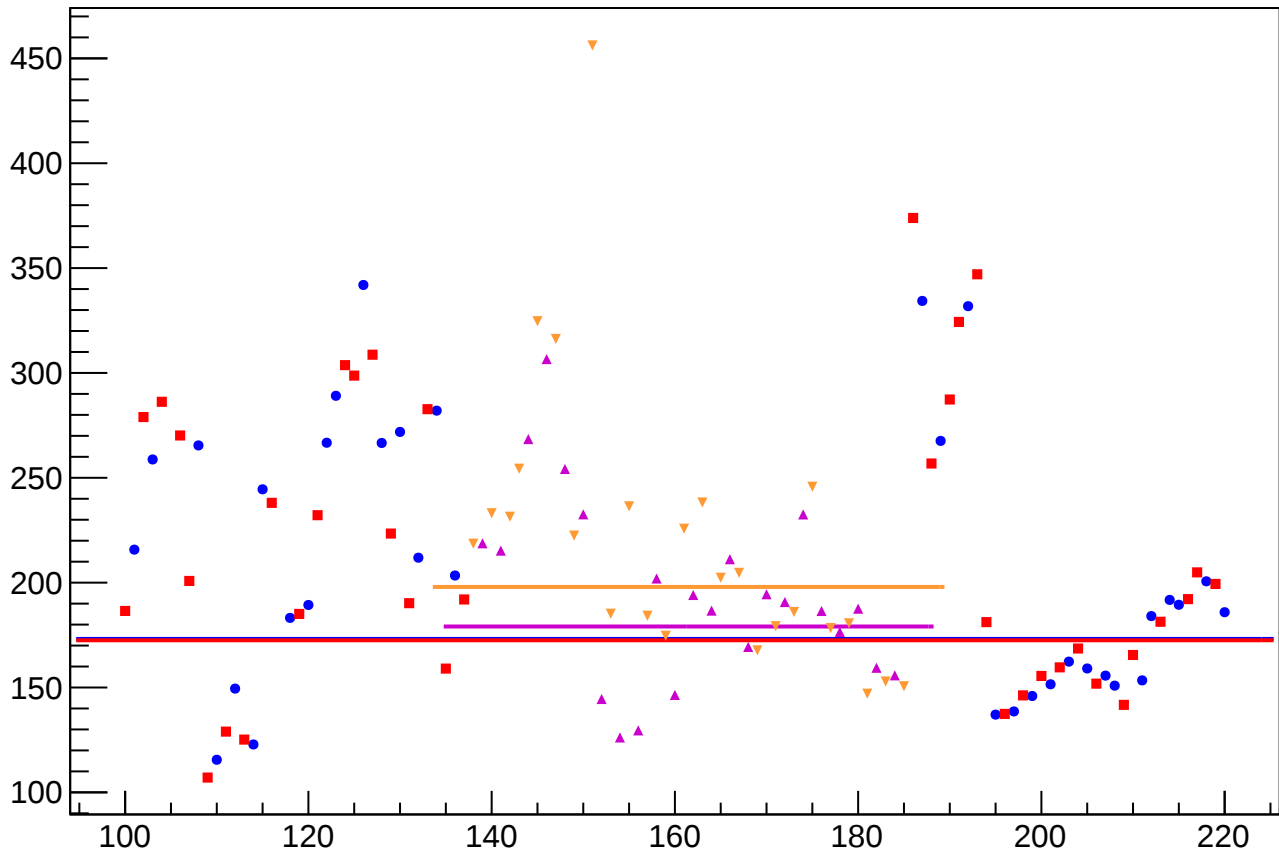
Right: -74.157 ± 29.145 $\chi^2/\text{NDF}: 37.4/70$

In: -20.685 ± 30.408 $\chi^2/\text{NDF}: 26.8/56$

Out: -43.684 ± 31.211 $\chi^2/\text{NDF}: 30.9/61$

All: -31.885 ± 21.780 $\chi^2/\text{NDF}: 58.0/118$

asym_bcm_an_ds3_rms vs Slug, Sign Corrected



Right In: 173.158 ± 0.029 χ^2/NDF : 2211280.3/33

Left Out: 197.953 ± 0.034 χ^2/NDF : 1774524.3/24

Right Out: 172.525 ± 0.029 χ^2/NDF : 2931309.5/36

Left In: 179.090 ± 0.032 χ^2/NDF : 1605113.3/22

Left: 187.936 ± 0.023 χ^2/NDF : 3544595.8/47

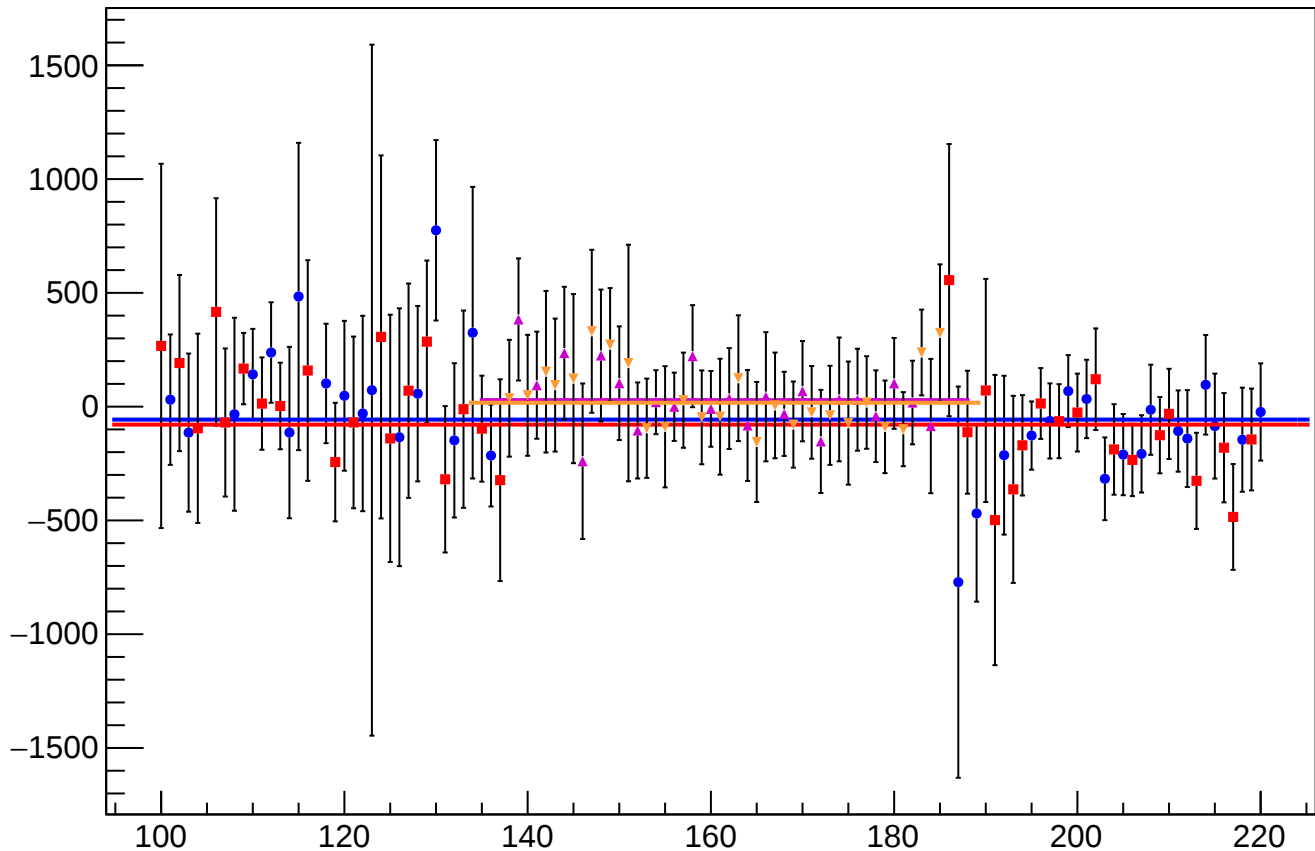
Right: 172.841 ± 0.021 χ^2/NDF : 5142825.1/70

In: 175.869 ± 0.022 χ^2/NDF : 3835281.1/56

Out: 183.338 ± 0.022 χ^2/NDF : 5030275.9/61

All: 179.506 ± 0.015 χ^2/NDF : 8924318.2/118

asym_bcm_an_us_mean vs Slug, Sign Corrected



Right In: -56.921 ± 41.352 $\chi^2/\text{NDF}: 17.2/33$

Left Out: 17.142 ± 47.738 $\chi^2/\text{NDF}: 7.1/24$

Right Out: -78.985 ± 41.205 $\chi^2/\text{NDF}: 17.1/36$

Left In: 28.655 ± 44.859 $\chi^2/\text{NDF}: 6.1/22$

Left: 23.256 ± 32.690 $\chi^2/\text{NDF}: 13.2/47$

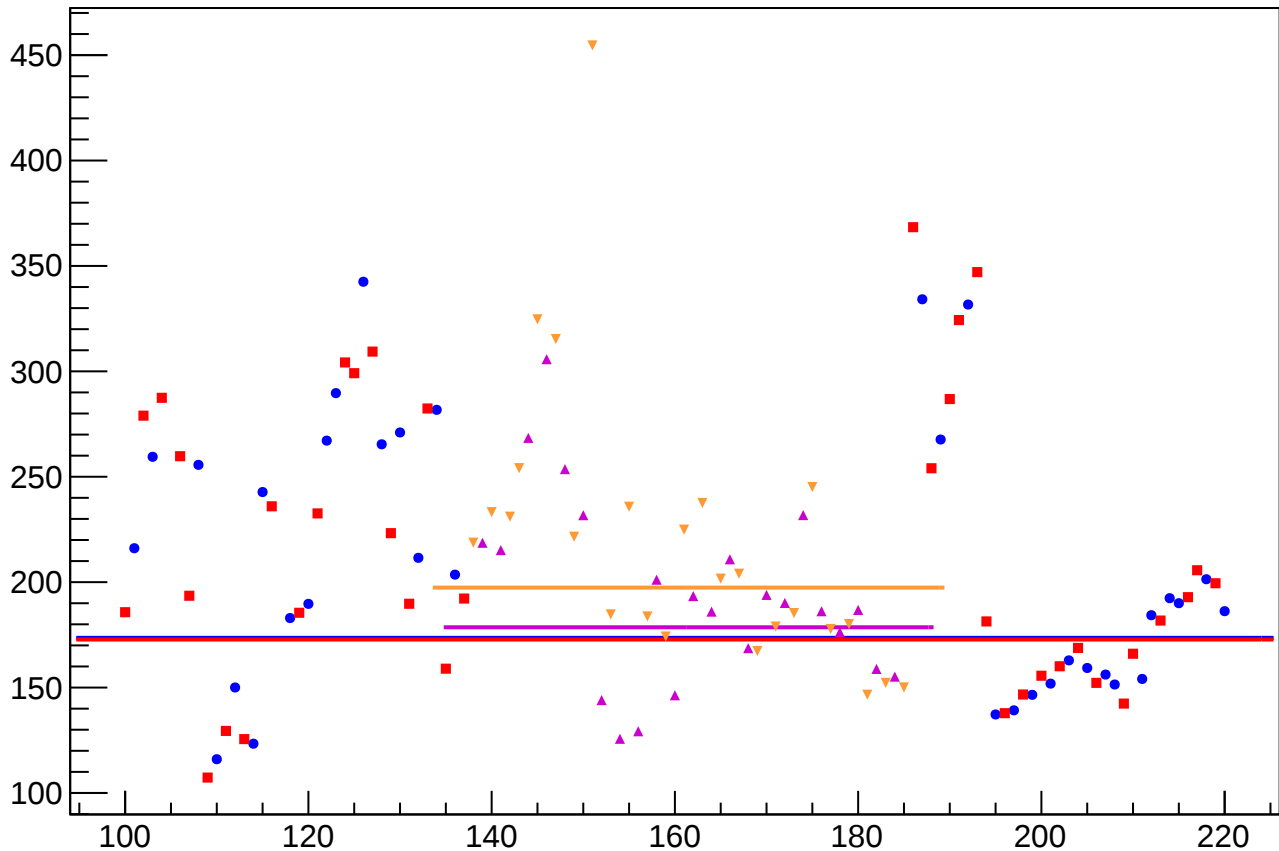
Right: -67.992 ± 29.188 $\chi^2/\text{NDF}: 34.4/70$

In: -17.609 ± 30.404 $\chi^2/\text{NDF}: 25.3/56$

Out: -37.944 ± 31.192 $\chi^2/\text{NDF}: 26.5/61$

All: -27.516 ± 21.772 $\chi^2/\text{NDF}: 52.0/118$

asym_bcm_an_us_rms vs Slug, Sign Corrected



Right In: 173.590 $\pm$ 0.029 χ^2 /NDF: 2179252.7/33

Left Out: 197.422 $\pm$ 0.034 χ^2 /NDF:1780261.9/24

Right Out: 172.788 $\pm$ 0.029 χ^2 /NDF: 2884904.6/36

Left In: 178.601 $\pm$ 0.032 χ^2 /NDF:1608998.1/22

Left: 187.427 $\pm$ 0.023 χ^2 /NDF: 3554344.1/47

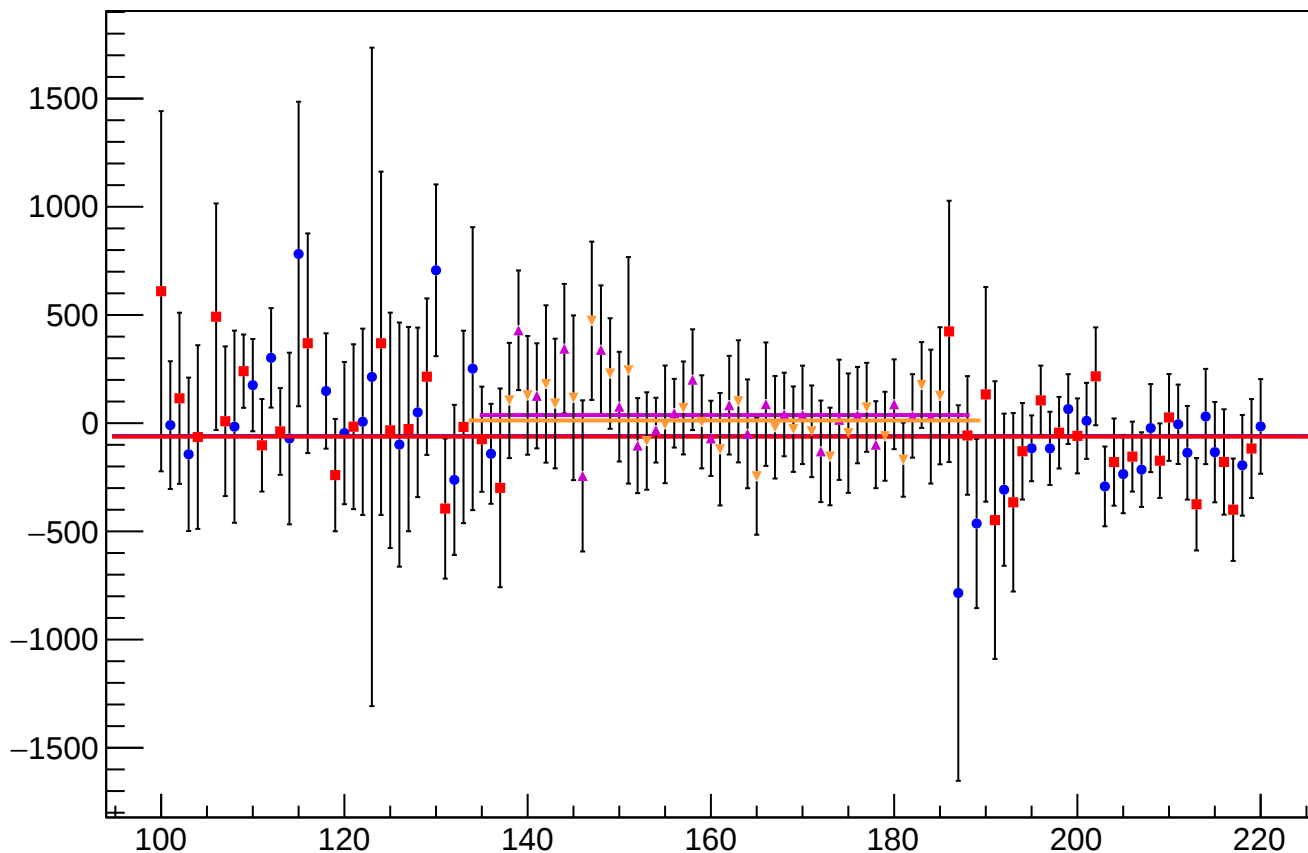
Right: 173.187 $\pm$ 0.021 χ^2 /NDF: 5064534.2/70

In: 175.892 $\pm$ 0.021 χ^2 /NDF:3801746.3/56

Out: 183.305 $\pm$ 0.022 χ^2 /NDF:4970345.9/61

All: 179.504 $\pm$ 0.015 χ^2 /NDF: 8830023.9/118

asym_bcm_dg_us_mean vs Slug, Sign Corrected



Right In: -60.190 ± 42.226 $\chi^2/\text{NDF}: 17.9/33$

Left Out: 12.632 ± 49.242 $\chi^2/\text{NDF}: 7.5/24$

Right Out: -62.037 ± 42.258 $\chi^2/\text{NDF}: 18.8/36$

Left In: 37.460 ± 46.479 $\chi^2/\text{NDF}: 7.6/22$

Left: 25.762 ± 33.800 $\chi^2/\text{NDF}: 15.3/47$

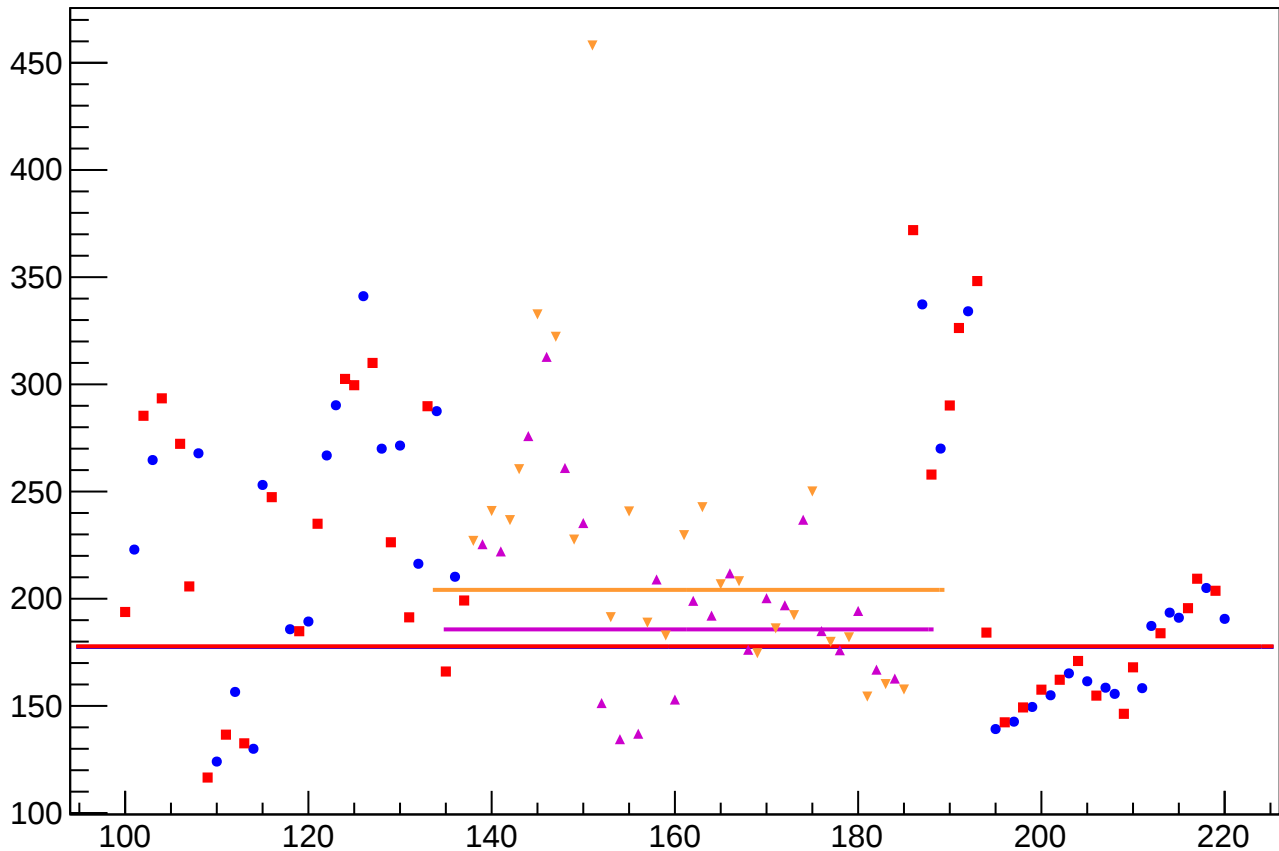
Right: -61.113 ± 29.870 $\chi^2/\text{NDF}: 36.8/70$

In: -16.035 ± 31.254 $\chi^2/\text{NDF}: 28.0/56$

Out: -30.369 ± 32.068 $\chi^2/\text{NDF}: 27.7/61$

All: -23.018 ± 22.382 $\chi^2/\text{NDF}: 55.8/118$

asym_bcm_dg_us_rms vs Slug, Sign Corrected



Right In: 177.514 $\pm$ 0.030 χ^2 /NDF: 2092986.3/33

Left Out: 204.132 $\pm$ 0.035 χ^2 /NDF:1672287.6/24

Right Out: 177.808 $\pm$ 0.030 χ^2 /NDF: 2691075.2/36

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

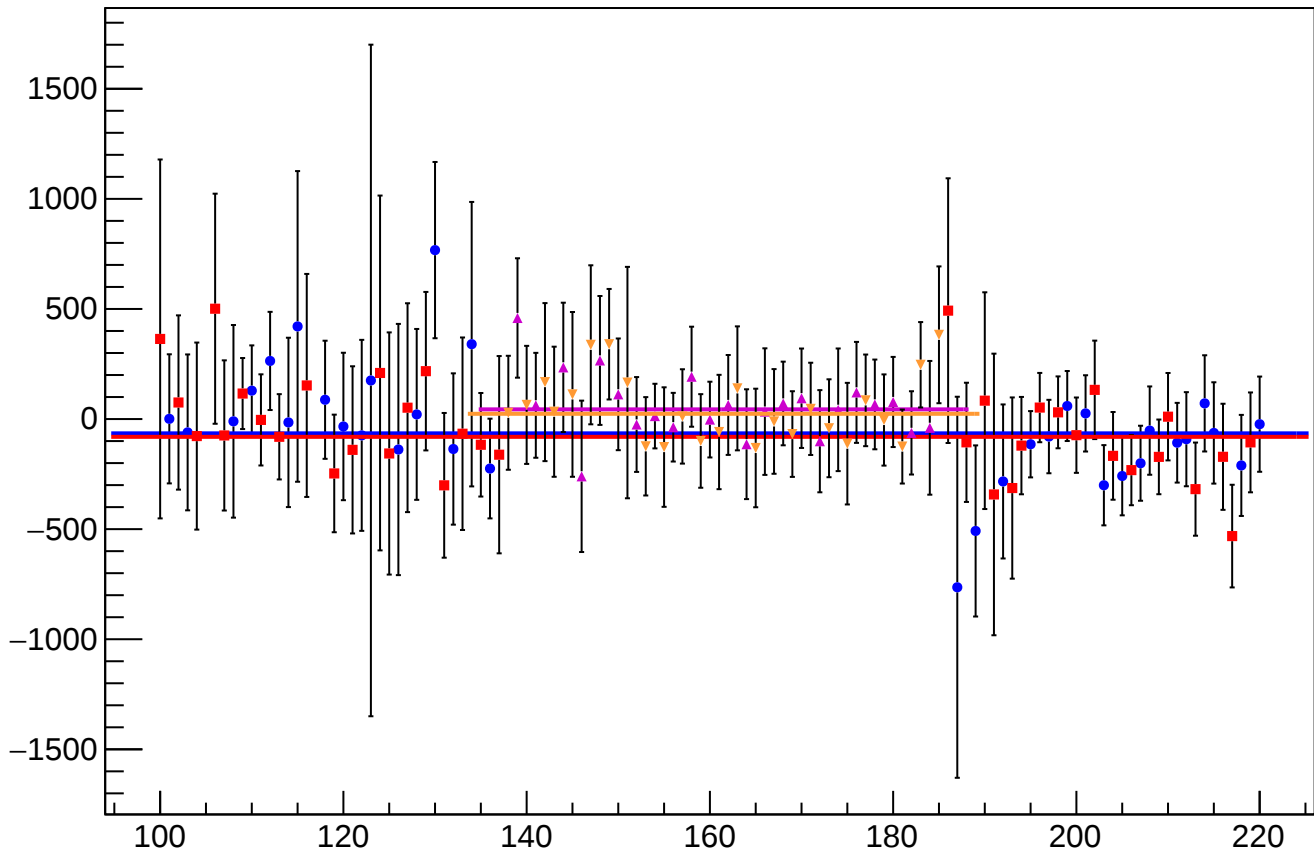
Right: 177.661 $\pm$ 0.021 χ^2 /NDF: 4784110.3/70

In: 181.212 $\pm$ 0.022 χ^2 /NDF:3574690.5/56

Out: 188.972 $\pm$ 0.023 χ^2 /NDF:4692501.5/61

All: 184.993 $\pm$ 0.016 χ^2 /NDF: 8327254.2/118

asym_bcm_dg_ds_mean vs Slug, Sign Corrected



Right In: -64.914 ± 41.709 $\chi^2/\text{NDF}: 17.0/33$

Left Out: 23.843 ± 48.783 $\chi^2/\text{NDF}: 8.5/24$

Right Out: -80.774 ± 41.627 $\chi^2/\text{NDF}: 15.7/36$

Left In: 43.978 ± 45.981 $\chi^2/\text{NDF}: 6.5/22$

Left: 34.506 ± 33.460 $\chi^2/\text{NDF}: 15.1/47$

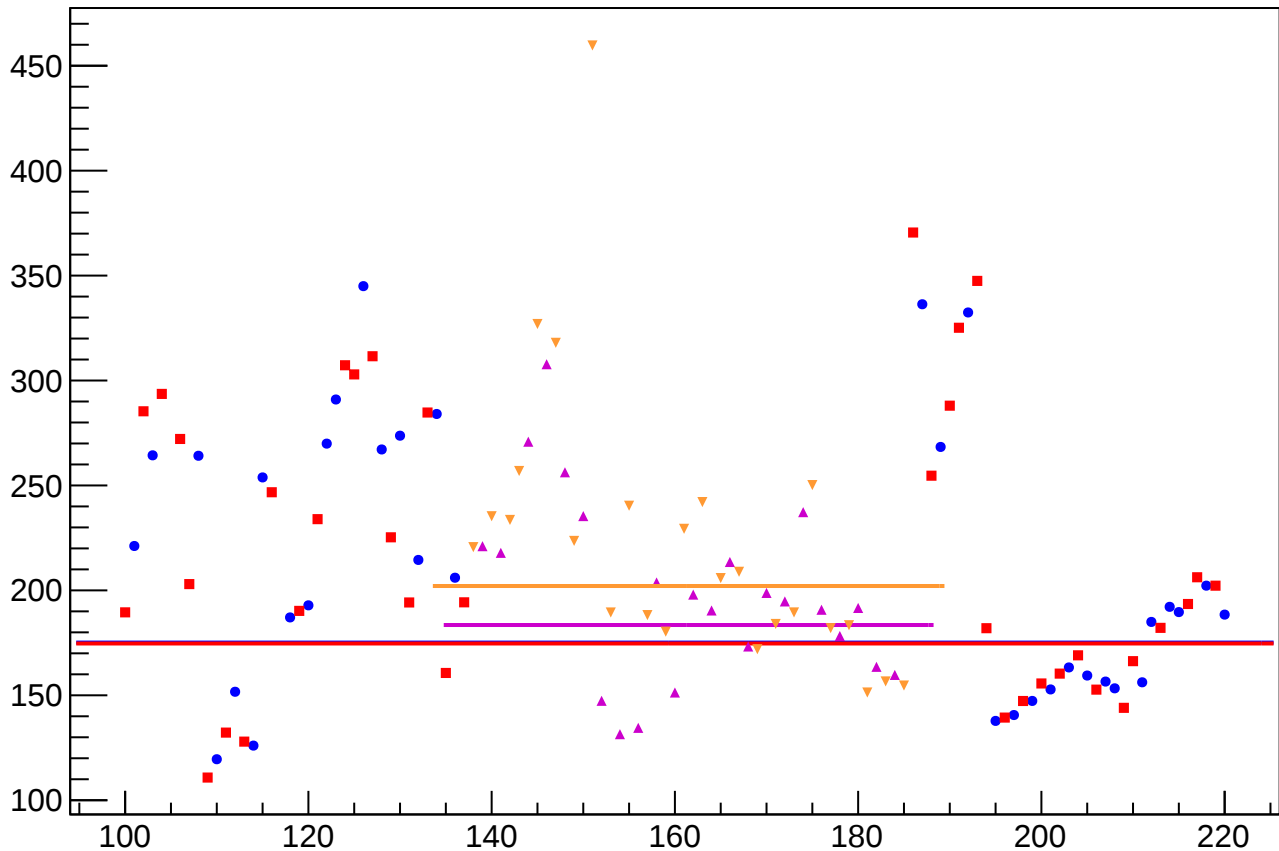
Right: -72.860 ± 29.464 $\chi^2/\text{NDF}: 32.8/70$

In: -15.760 ± 30.893 $\chi^2/\text{NDF}: 26.6/56$

Out: -36.695 ± 31.665 $\chi^2/\text{NDF}: 26.9/61$

All: -25.969 ± 22.113 $\chi^2/\text{NDF}: 53.7/118$

asym_bcm_dg_ds_rms vs Slug, Sign Corrected



Right In: 175.125 ± 0.029 $\chi^2/\text{NDF}: 2178341.9/33$

Left Out: 202.081 ± 0.034 $\chi^2/\text{NDF}: 1692787.9/24$

Right Out: 174.690 ± 0.029 $\chi^2/\text{NDF}: 2859143.0/36$

Left In: 183.498 ± 0.033 $\chi^2/\text{NDF}: 1483383.4/22$

Left: 192.240 ± 0.024 $\chi^2/\text{NDF}: 3329846.6/47$

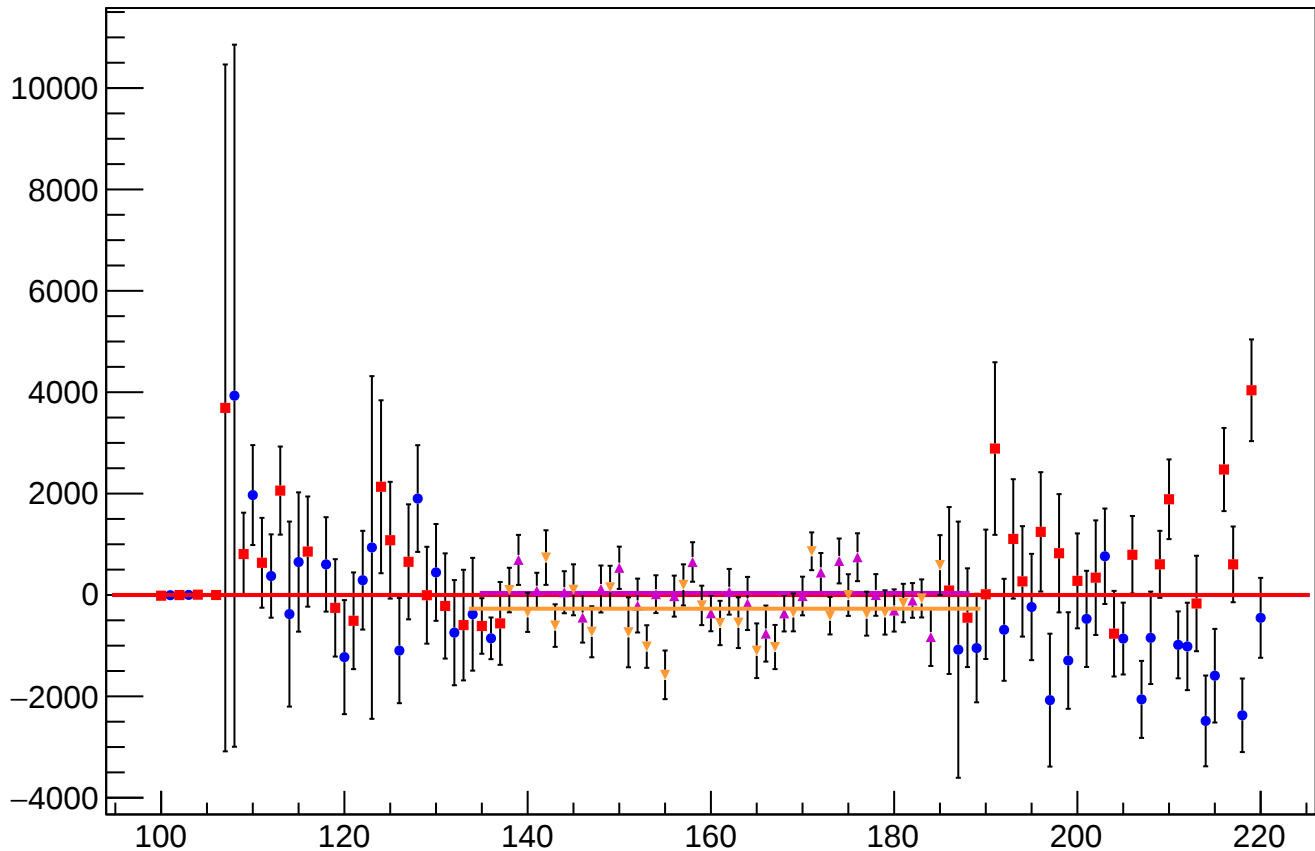
Right: 174.907 ± 0.021 $\chi^2/\text{NDF}: 5037593.5/70$

In: 178.905 ± 0.022 $\chi^2/\text{NDF}: 3698111.2/56$

Out: 186.231 ± 0.022 $\chi^2/\text{NDF}: 4916779.1/61$

All: 182.477 ± 0.016 $\chi^2/\text{NDF}: 8669744.7/118$

asym_cav4bQ_mean vs Slug, Sign Corrected



Right In: -1.653 ± 2.251 χ^2/NDF : 59.3/33

Left Out: -270.969 ± 86.967 χ^2/NDF : 38.1/24

Right Out: 0.801 ± 2.111 χ^2/NDF : 59.4/36

Left In: 39.078 ± 87.769 χ^2/NDF : 20.3/22

Left: -117.369 ± 61.777 χ^2/NDF : 64.7/47

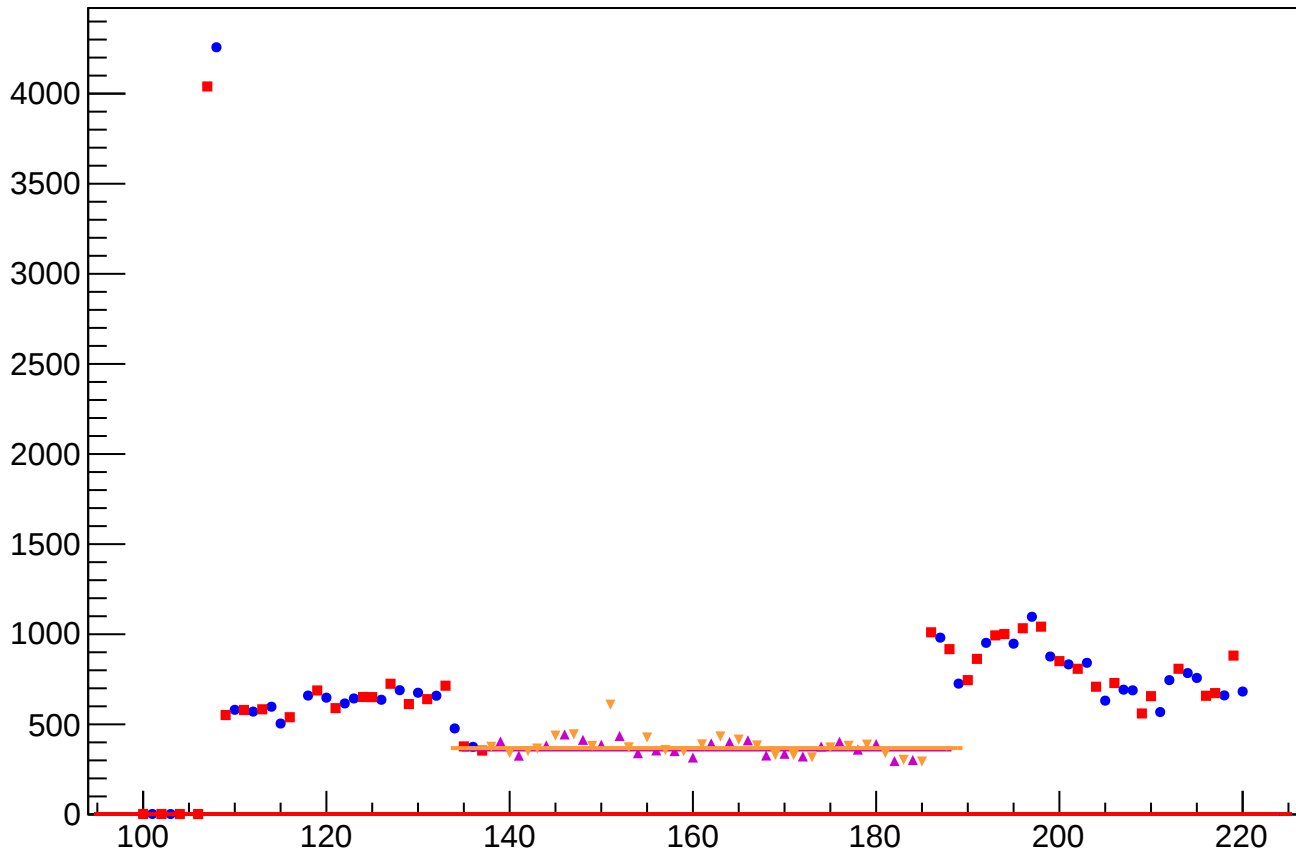
Right: -0.347 ± 1.540 χ^2/NDF : 119.3/70

In: -1.626 ± 2.251 χ^2/NDF : 79.7/56

Out: 0.641 ± 2.110 χ^2/NDF : 107.3/61

All: -0.420 ± 1.539 χ^2/NDF : 187.5/118

asym_cav4bQ_rms vs Slug, Sign Corrected



Right In: 2.537 $\pm$ 0.002 χ^2 /NDF: 34934804.6/33

Left Out: 368.397 $\pm$ 0.061 χ^2 /NDF:622466.1/24

Right Out: 2.505 $\pm$ 0.001 χ^2 /NDF: 35585748.3/36

Left In: 360.408 $\pm$ 0.062 χ^2 /NDF:417739.4/22

Left: 364.439 $\pm$ 0.044 χ^2 /NDF: 1048566.0/47

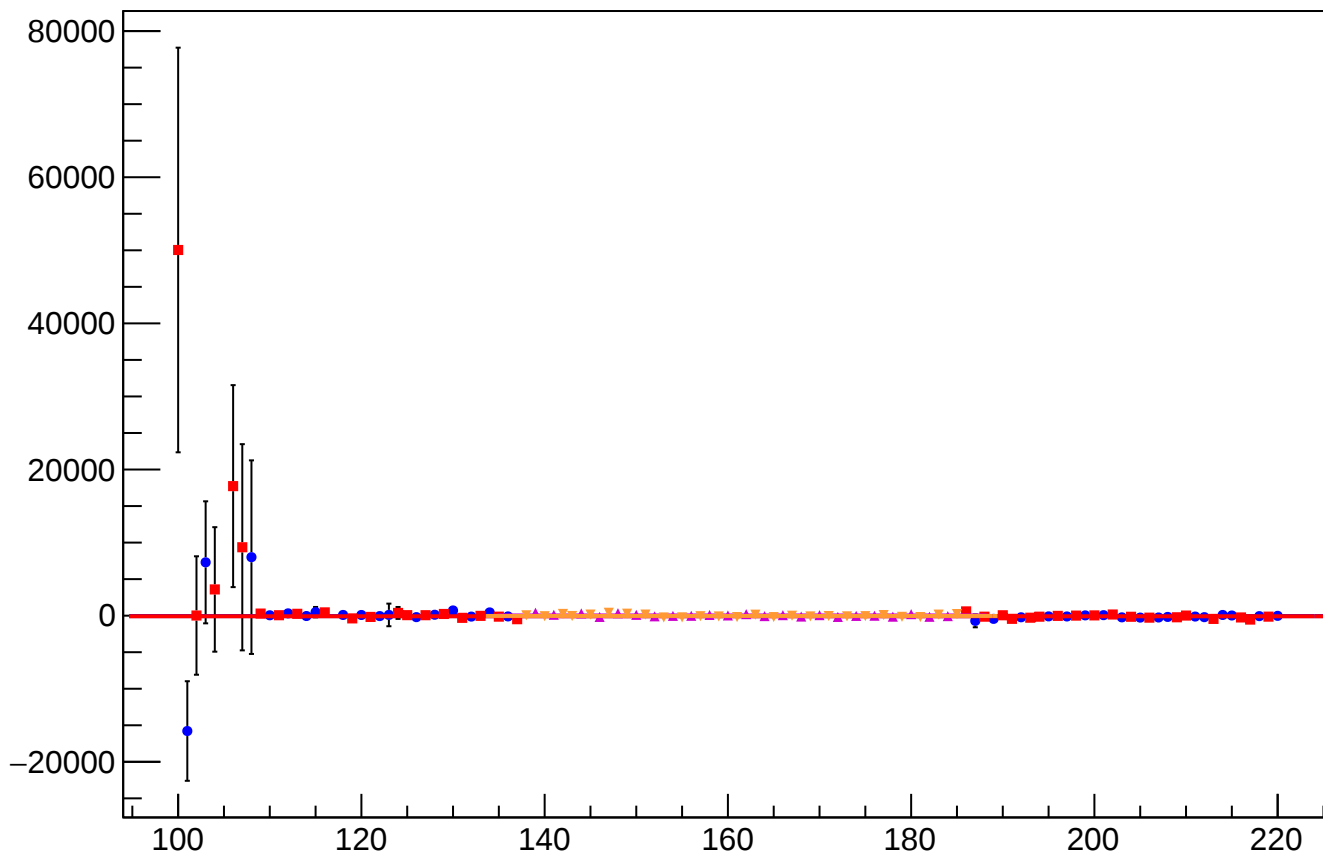
Right: 2.520 $\pm$ 0.001 χ^2 /NDF: 70520767.7/70

In: 2.772 $\pm$ 0.002 χ^2 /NDF:68581132.1/56

Out: 2.720 $\pm$ 0.001 χ^2 /NDF:71589107.0/61

All: 2.744 $\pm$ 0.001 χ^2 /NDF: 140170803.5/118

asym_cav4cQ_mean vs Slug, Sign Corrected



Right In: -57.376 ± 45.278 χ^2/NDF : 22.0/33

Left Out: -38.013 ± 49.628 χ^2/NDF : 9.3/24

Right Out: -82.086 ± 45.849 χ^2/NDF : 28.4/36

Left In: 28.205 ± 48.167 χ^2/NDF : 9.2/22

Left: -3.915 ± 34.564 χ^2/NDF : 19.4/47

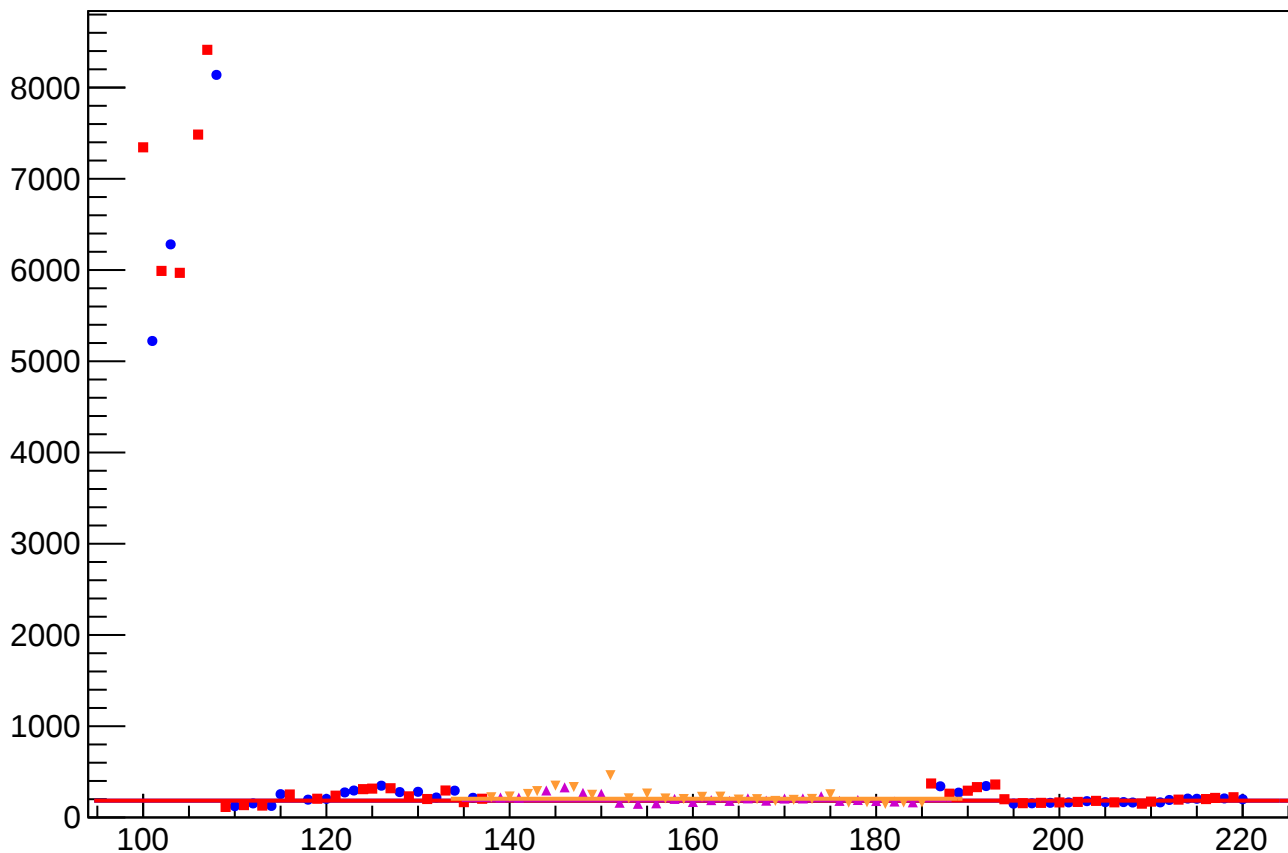
Right: -69.576 ± 32.216 χ^2/NDF : 50.5/70

In: -17.229 ± 32.990 χ^2/NDF : 32.9/56

Out: -61.791 ± 33.677 χ^2/NDF : 38.1/61

All: -39.051 ± 23.567 χ^2/NDF : 71.9/118

asym_cav4cQ_rms vs Slug, Sign Corrected



Right In: 183.658+/-0.032 χ^2/NDF : 4614722.5/33

Left Out: 205.027+/-0.035 χ^2/NDF :1956045.1/24

Right Out: 184.311+/-0.032 χ^2/NDF : 5519081.4/36

Left In: 193.405+/-0.034 χ^2/NDF :1172169.3/22

Left: 199.042+/-0.024 χ^2/NDF : 3184695.4/47

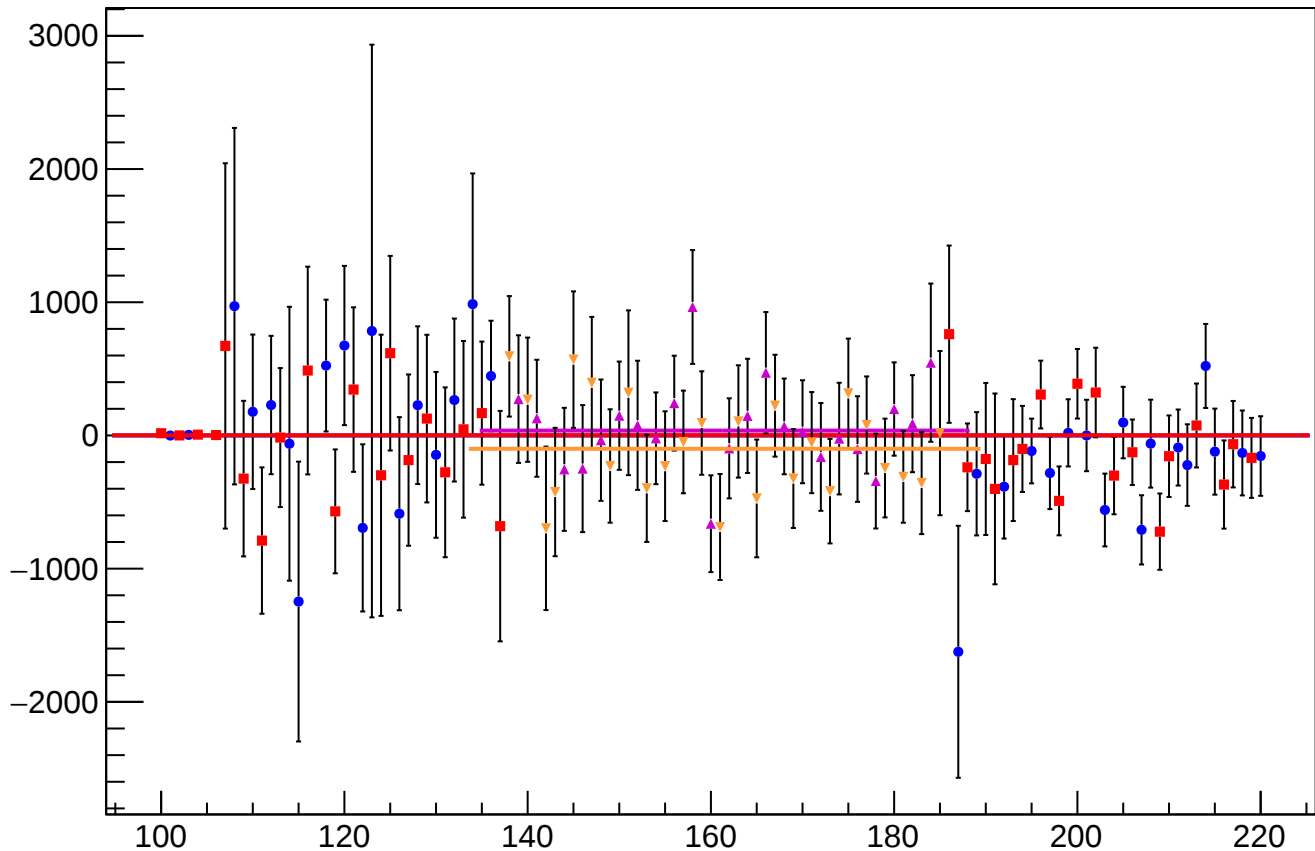
Right: 183.981+/-0.023 χ^2/NDF : 10134009.3/70

In: 188.230+/-0.023 χ^2/NDF :5830366.6/56

Out: 193.850+/-0.024 χ^2/NDF :7663135.5/61

All: 190.983+/-0.017 χ^2/NDF : 13521925.2/131

asym_cav4dQ_mean vs Slug, Sign Corrected



Right In: -0.233 $\pm$ 1.736 χ^2/NDF : 31.4/33

Left Out: -100.058 $\pm$ 84.190 χ^2/NDF :15.7/24

Right Out: 1.272 $\pm$ 1.622 χ^2/NDF : 29.7/36

Left In: 36.497 $\pm$ 84.675 χ^2/NDF :13.5/22

Left: -32.173 $\pm$ 59.702 χ^2/NDF : 30.5/47

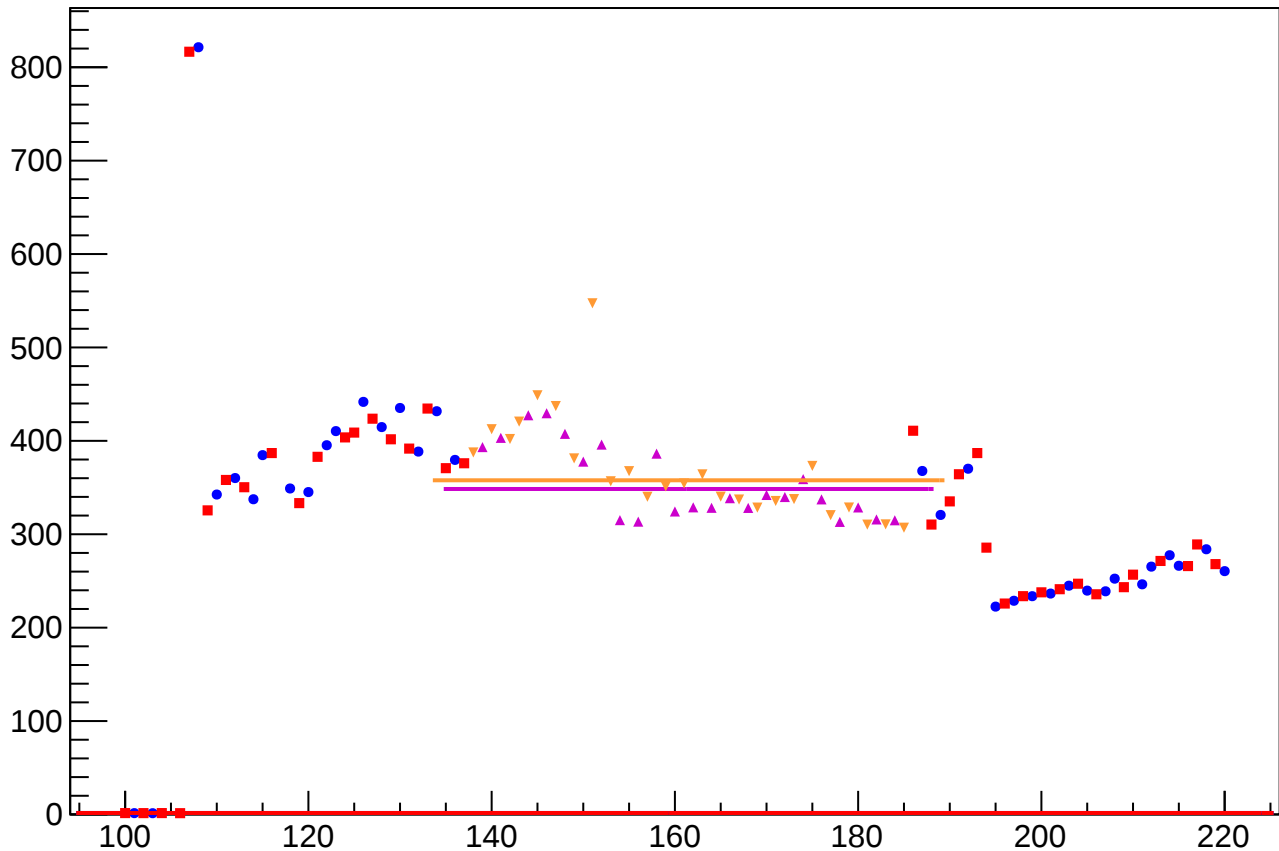
Right: 0.571 $\pm$ 1.185 χ^2/NDF : 61.5/70

In: -0.217 $\pm$ 1.736 χ^2/NDF :45.1/56

Out: 1.234 $\pm$ 1.622 χ^2/NDF :46.9/61

All: 0.558 $\pm$ 1.185 χ^2/NDF : 92.4/118

asym_cav4dQ_rms vs Slug, Sign Corrected



Right In: 1.595 $\pm$ 0.001 χ^2 /NDF: 35148978.4/33

Left Out: 357.771 $\pm$ 0.060 χ^2 /NDF: 547124.8/24

Right Out: 1.572 $\pm$ 0.001 χ^2 /NDF: 35287544.7/36

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

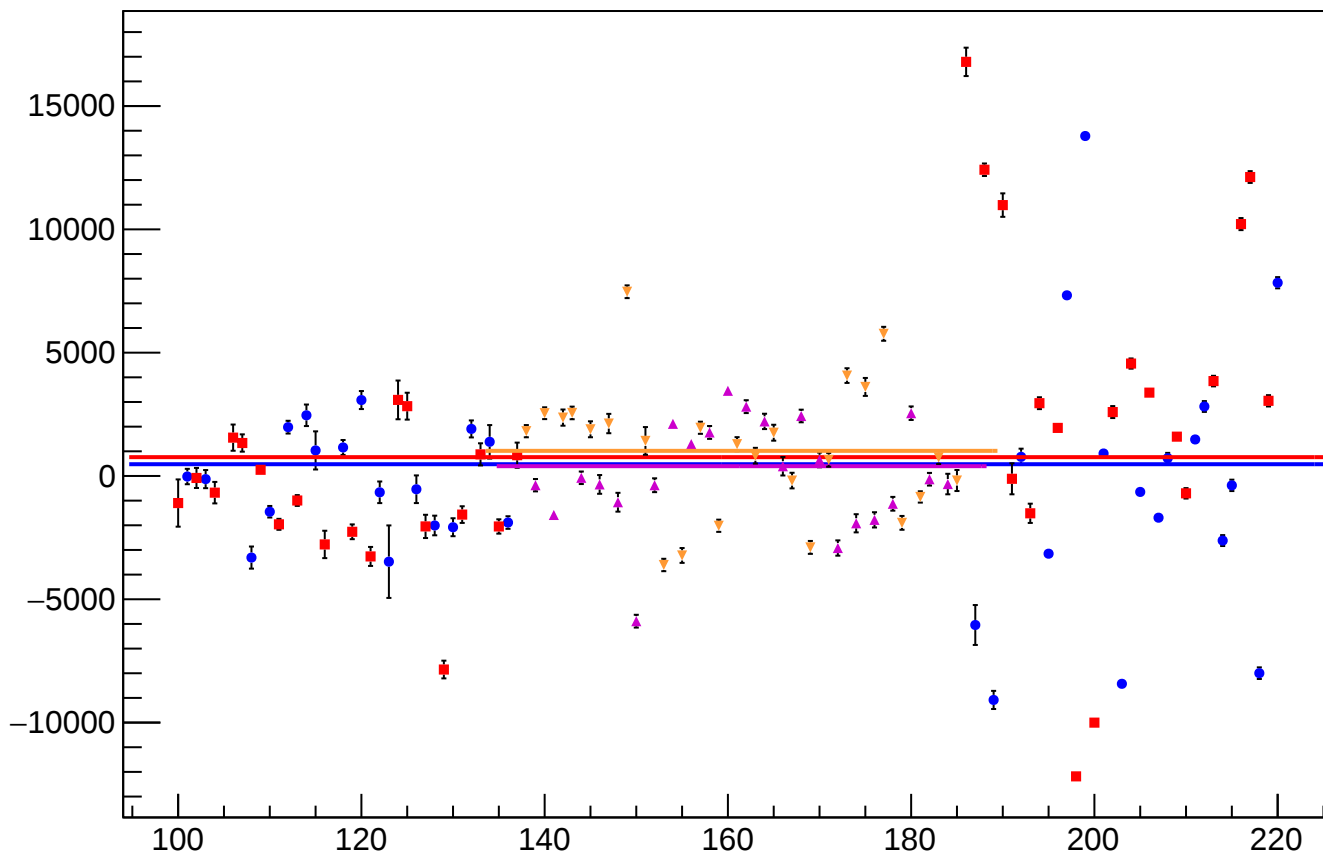
Right: 1.583 $\pm$ 0.001 χ^2 /NDF: 70436720.1/70

In: 1.741 $\pm$ 0.001 χ^2 /NDF: 69057256.9/56

Out: 1.704 $\pm$ 0.001 χ^2 /NDF: 71622622.6/61

All: 1.721 $\pm$ 0.001 χ^2 /NDF: 140680368.3/118

asym_bcm0l02_mean vs Slug, Sign Corrected



Right In: 476.704 $\pm$ 44.841 χ^2/NDF : 13513.7/33

Left Out: 1018.965 $\pm$ 57.402 χ^2/NDF : 2310.1/24

Right Out: 763.132 $\pm$ 44.580 χ^2/NDF : 17903.7/36

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

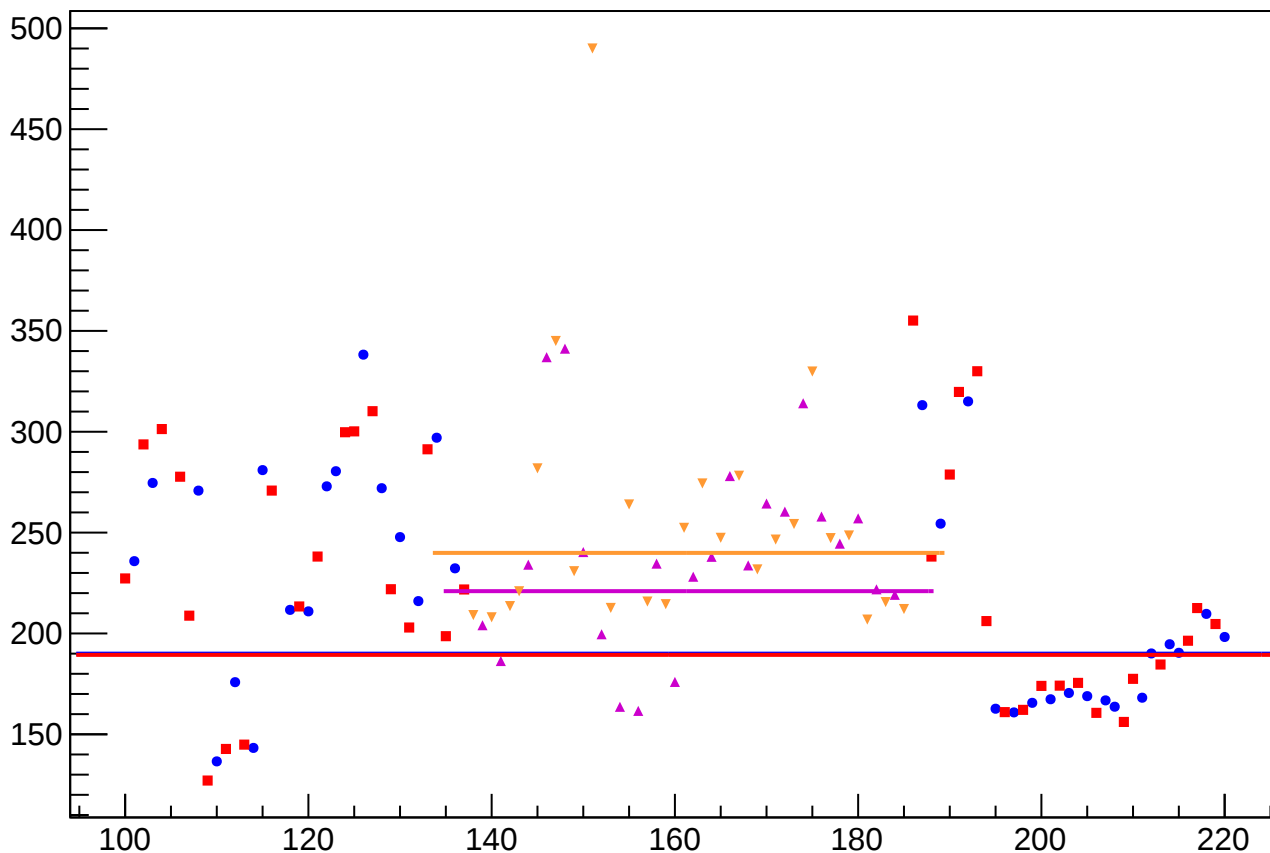
Right: 620.754 $\pm$ 31.615 χ^2/NDF : 31437.8/70

In: 444.786 $\pm$ 34.777 χ^2/NDF : 15095.9/56

Out: 859.384 $\pm$ 35.209 χ^2/NDF : 20226.2/61

All: 649.525 $\pm$ 24.742 χ^2/NDF : 35392.3/118

asym_bcm0l02_rms vs Slug, Sign Corrected



Right In: 189.991 $\pm$ 0.032 χ^2 /NDF: 1564993.2/33

Left Out: 239.942 $\pm$ 0.041 χ^2 /NDF:1000770.0/24

Right Out: 189.387 $\pm$ 0.032 χ^2 /NDF: 2154007.4/36

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

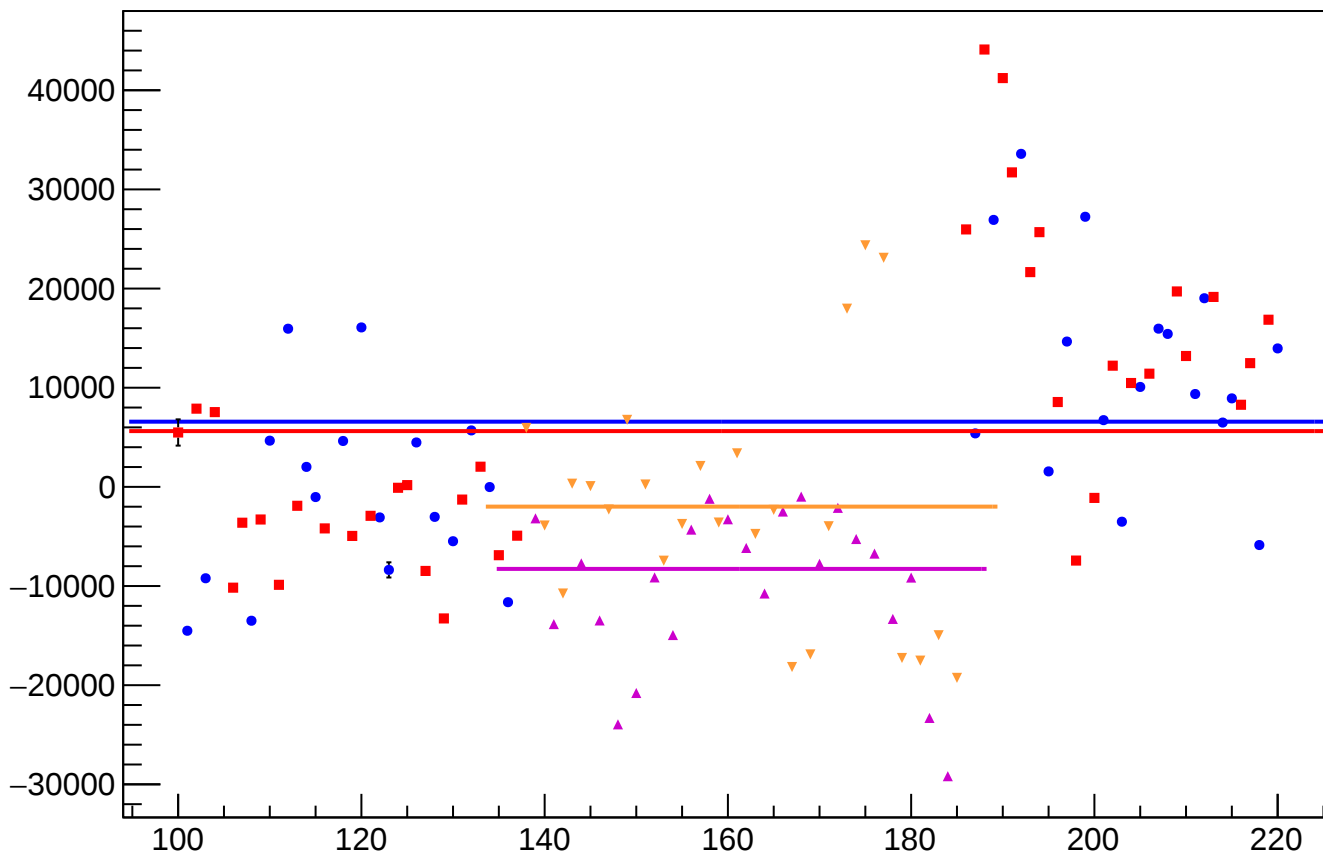
Right: 189.687 $\pm$ 0.022 χ^2 /NDF: 3719183.2/70

In: 202.337 $\pm$ 0.025 χ^2 /NDF:3273123.0/56

Out: 208.407 $\pm$ 0.025 χ^2 /NDF:4122453.9/61

All: 205.334 $\pm$ 0.017 χ^2 /NDF: 7425667.3/118

asym_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 6574.996+/-38.727 χ^2/NDF : 96925.9/33

Left Out: -1991.788+/-42.427 χ^2/NDF : 63766.6/24

Right Out: 5624.144+/-37.551 χ^2/NDF : 146871.1/36

Left In: -8273.228+/-44.301 χ^2/NDF : 22870.2/22

Left: -4996.810+/-30.641 χ^2/NDF : 97123.2/47

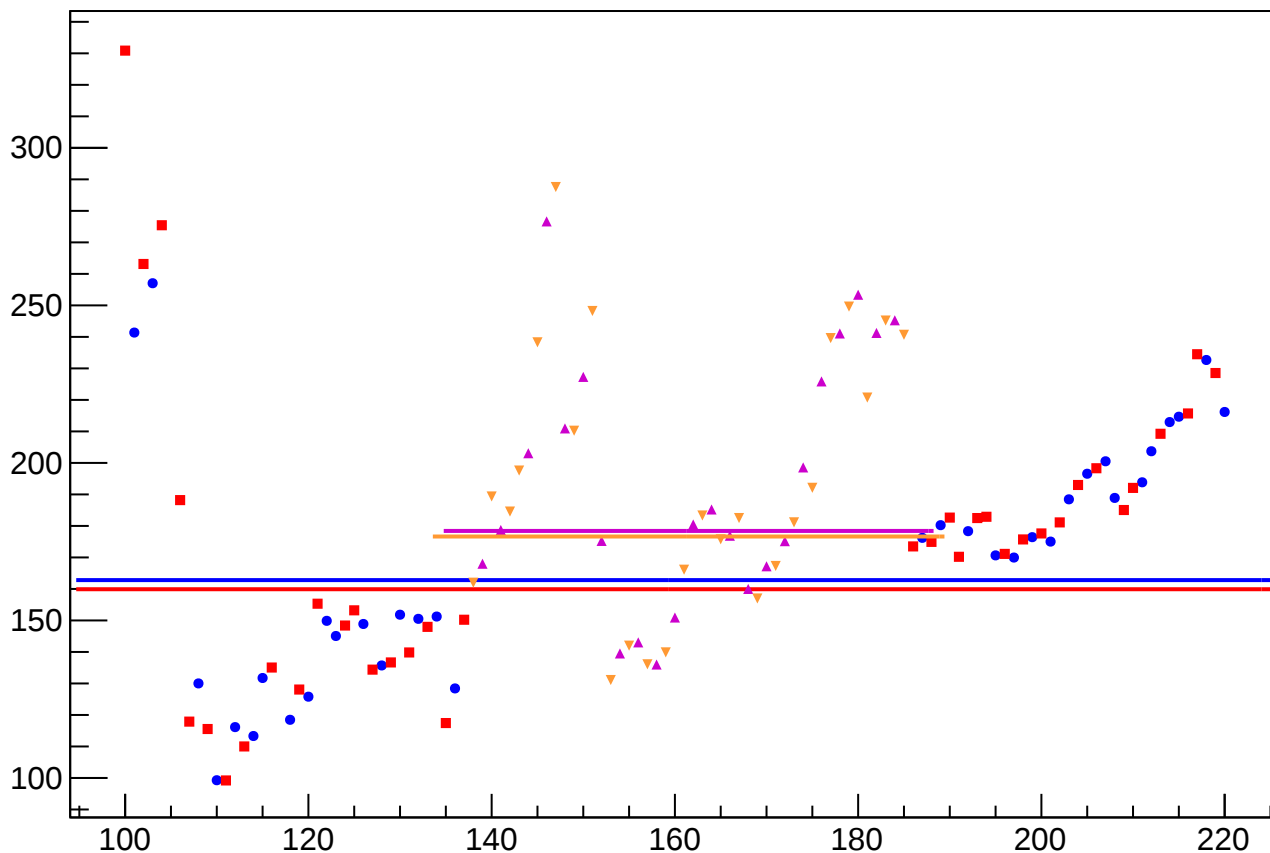
Right: 6084.925+/-26.959 χ^2/NDF : 244107.7/70

In: 143.352+/-29.157 χ^2/NDF : 183472.7/56

Out: 2278.712+/-28.119 χ^2/NDF : 228706.2/61

All: 1249.698+/-20.240 χ^2/NDF : 414957.8/11

asym_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 162.807 $\pm$ 0.027 χ^2/NDF : 1872267.7/33

Left Out: 176.641 $\pm$ 0.030 χ^2/NDF :1551048.8/24

Right Out: 159.906 $\pm$ 0.027 χ^2/NDF : 2145050.8/36

Left In: 178.413 $\pm$ 0.031 χ^2/NDF :1293736.2/22

Left: 177.489 $\pm$ 0.022 χ^2/NDF : 2846455.0/47

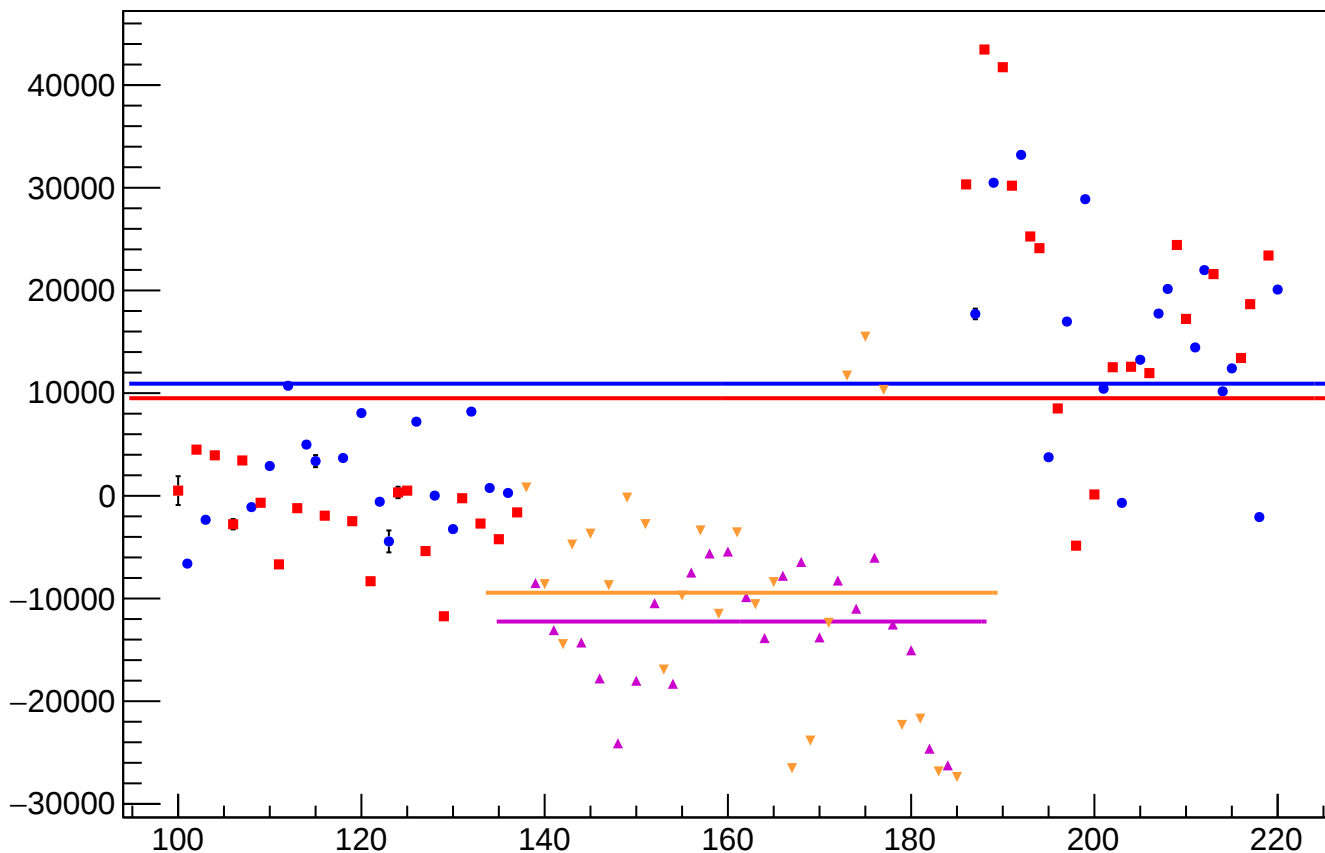
Right: 161.312 $\pm$ 0.019 χ^2/NDF : 4023102.6/70

In: 169.567 $\pm$ 0.021 χ^2/NDF :3306697.0/56

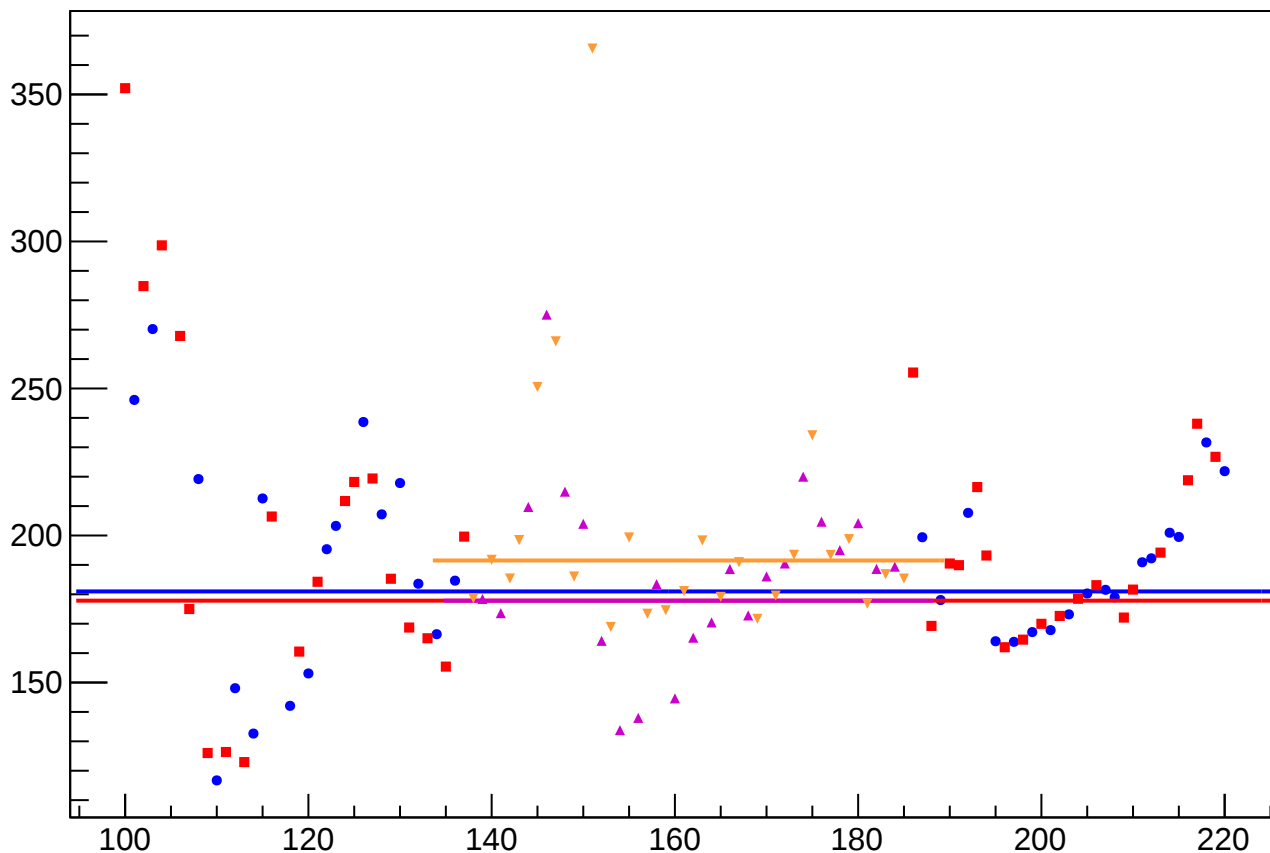
Out: 167.257 $\pm$ 0.020 χ^2/NDF :3870582.1/61

All: 168.370 $\pm$ 0.014 χ^2/NDF : 7183782.9/118

asym_bpm0i02aWS_mean vs Slug, Sign Corrected



asym_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 180.978+/-0.030 χ^2/NDF : 953796.8/33

Left Out: 191.507+/-0.032 χ^2/NDF : 727251.6/24

Right Out: 177.840+/-0.029 χ^2/NDF : 1388827.0/36

Left In: 177.821+/-0.031 χ^2/NDF : 862494.4/22

Left: 184.421+/-0.022 χ^2/NDF : 1683284.8/47

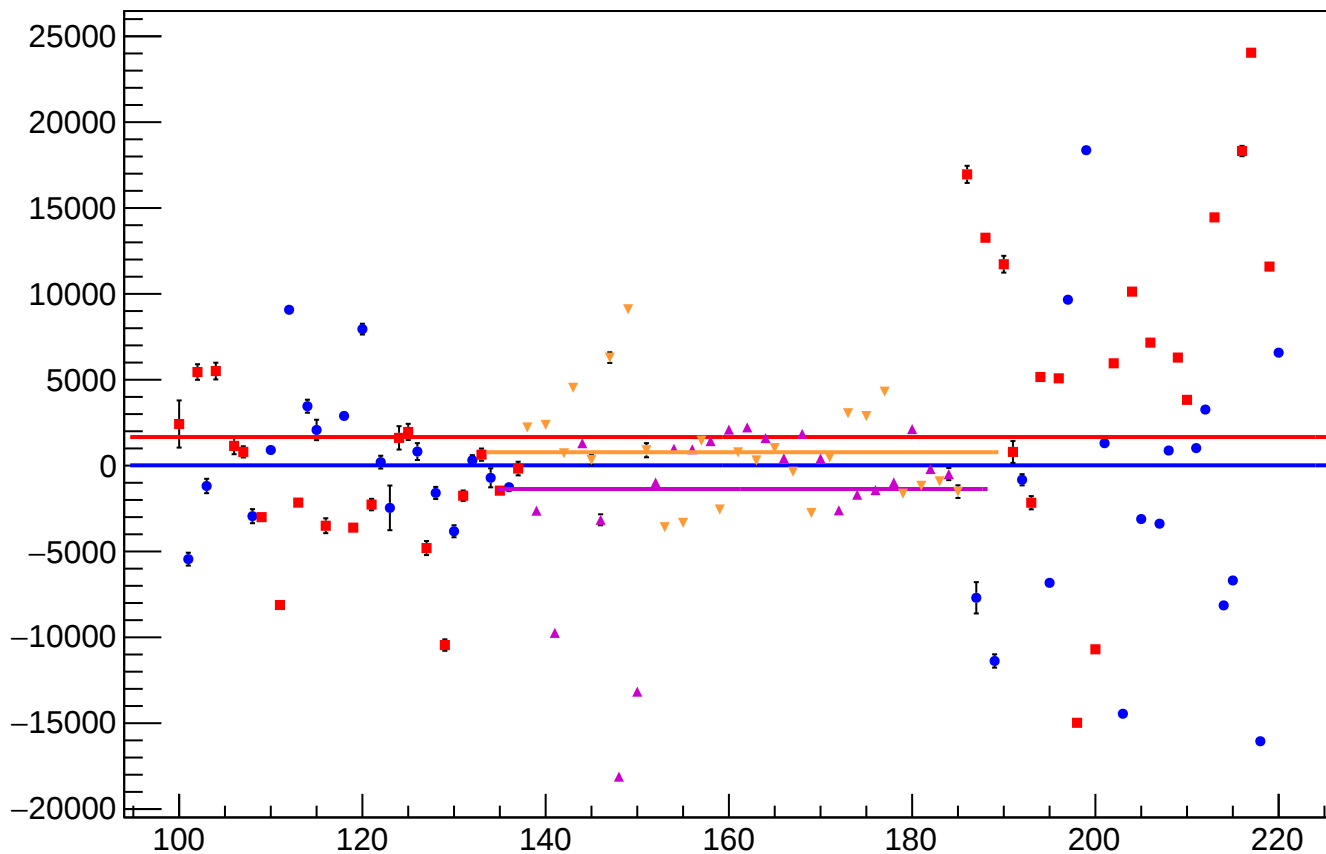
Right: 179.368+/-0.021 χ^2/NDF : 2348250.0/70

In: 179.457+/-0.022 χ^2/NDF : 1821638.8/56

Out: 184.006+/-0.022 χ^2/NDF : 2214960.5/61

All: 181.726+/-0.015 χ^2/NDF : 4058777.3/118

asym_bpm0i05WS_mean vs Slug, Sign Corrected



Right In: 15.878+/-47.416 χ^2/NDF : 26067.8/33

Left Out: 779.983+/-47.457 χ^2/NDF : 4260.8/24

Right Out: 1663.290+/-46.406 χ^2/NDF : 35770.8/36

Left In: -1363.043+/-45.807 χ^2/NDF : 11632.9/22

Left: -329.448+/-32.958 χ^2/NDF : 16949.3/47

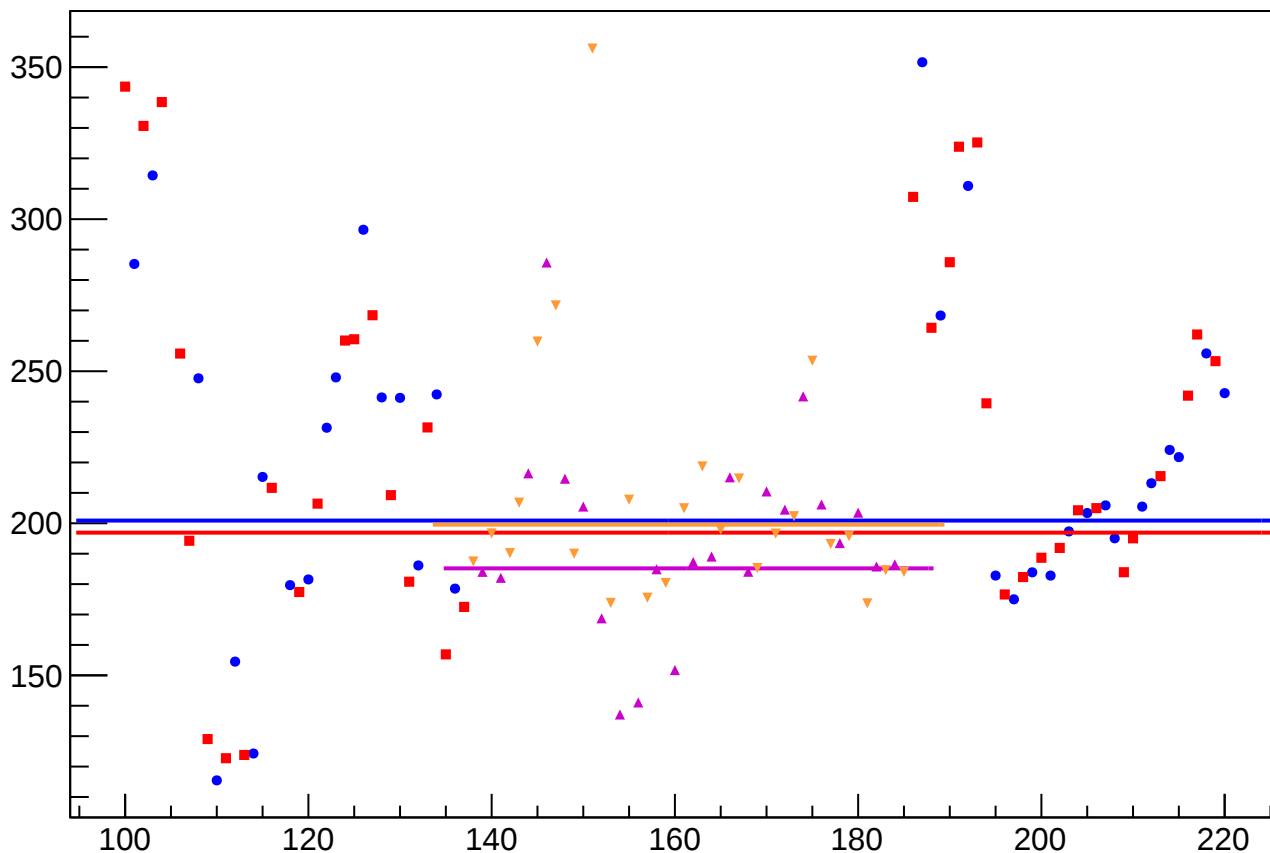
Right: 857.310+/-33.165 χ^2/NDF : 62455.1/70

In: -697.374+/-32.944 χ^2/NDF : 38138.1/56

Out: 1231.530+/-33.179 χ^2/NDF : 40208.6/61

All: 260.219+/-23.378 χ^2/NDF : 80048.6/118

asym_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 200.894 ± 0.034 $\chi^2/\text{NDF}: 1594403.0/33$

Left Out: 199.547 ± 0.034 $\chi^2/\text{NDF}: 729356.3/24$

Right Out: 196.925 ± 0.033 $\chi^2/\text{NDF}: 2402441.1/36$

Left In: 185.171 ± 0.032 $\chi^2/\text{NDF}: 882752.2/22$

Left: 192.104 ± 0.023 $\chi^2/\text{NDF}: 1707122.0/47$

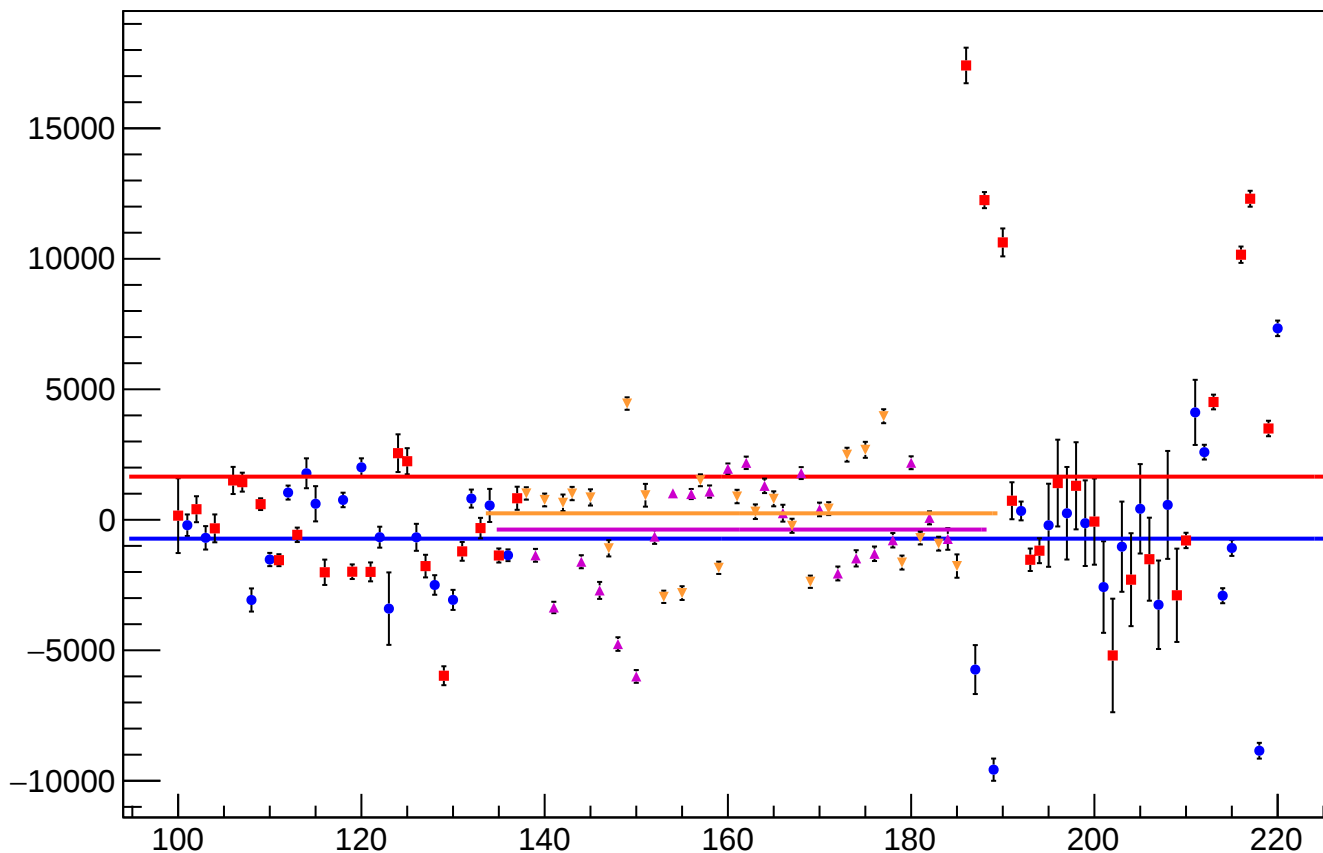
Right: 198.867 ± 0.023 $\chi^2/\text{NDF}: 4004001.3/70$

In: 192.761 ± 0.023 $\chi^2/\text{NDF}: 2590919.6/56$

Out: 198.207 ± 0.023 $\chi^2/\text{NDF}: 3134916.7/61$

All: 195.465 ± 0.017 $\chi^2/\text{NDF}: 5752965.1/118$

asym_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -722.440 ± 70.348 $\chi^2/\text{NDF}: 2432.6/33$

Left Out: 247.844 ± 53.555 $\chi^2/\text{NDF}: 1355.1/24$

Right Out: 1653.608 ± 65.299 $\chi^2/\text{NDF}: 5640.1/36$

Left In: -374.122 ± 52.049 $\chi^2/\text{NDF}: 1801.0/22$

Left: -72.006 ± 37.325 $\chi^2/\text{NDF}: 3225.5/47$

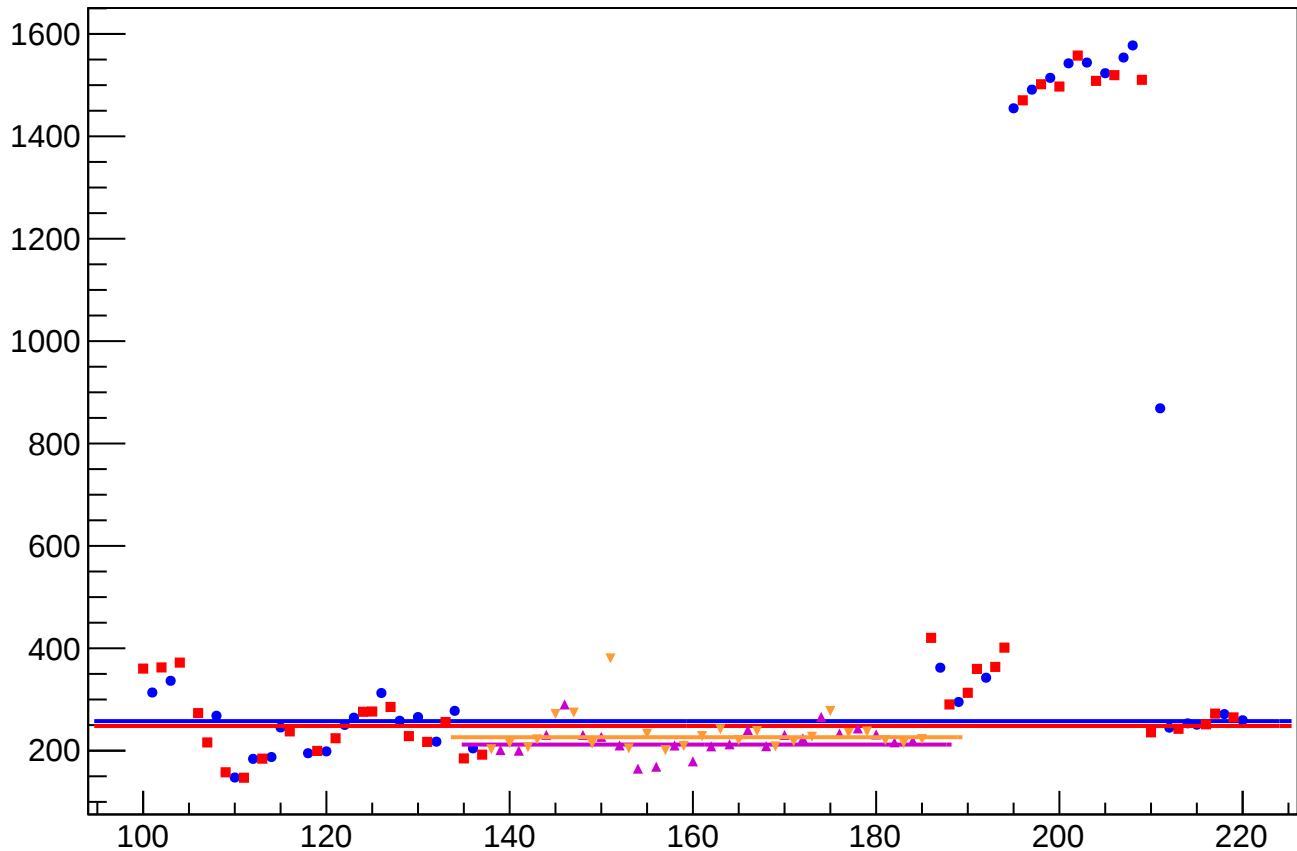
Right: 553.902 ± 47.859 $\chi^2/\text{NDF}: 8685.5/70$

In: -497.345 ± 41.842 $\chi^2/\text{NDF}: 4249.5/56$

Out: 813.167 ± 41.409 $\chi^2/\text{NDF}: 7272.3/61$

All: 164.717 ± 29.432 $\chi^2/\text{NDF}: 12017.3/118$

asym_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 257.777 ± 0.050 $\chi^2/\text{NDF}: 10151450.0/33$

Left Out: 226.322 ± 0.038 $\chi^2/\text{NDF}: 521041.8/24$

Right Out: 248.287 ± 0.046 $\chi^2/\text{NDF}: 9294733.7/36$

Left In: 211.970 ± 0.037 $\chi^2/\text{NDF}: 584344.5/22$

Left: 218.941 ± 0.026 $\chi^2/\text{NDF}: 1179246.7/47$

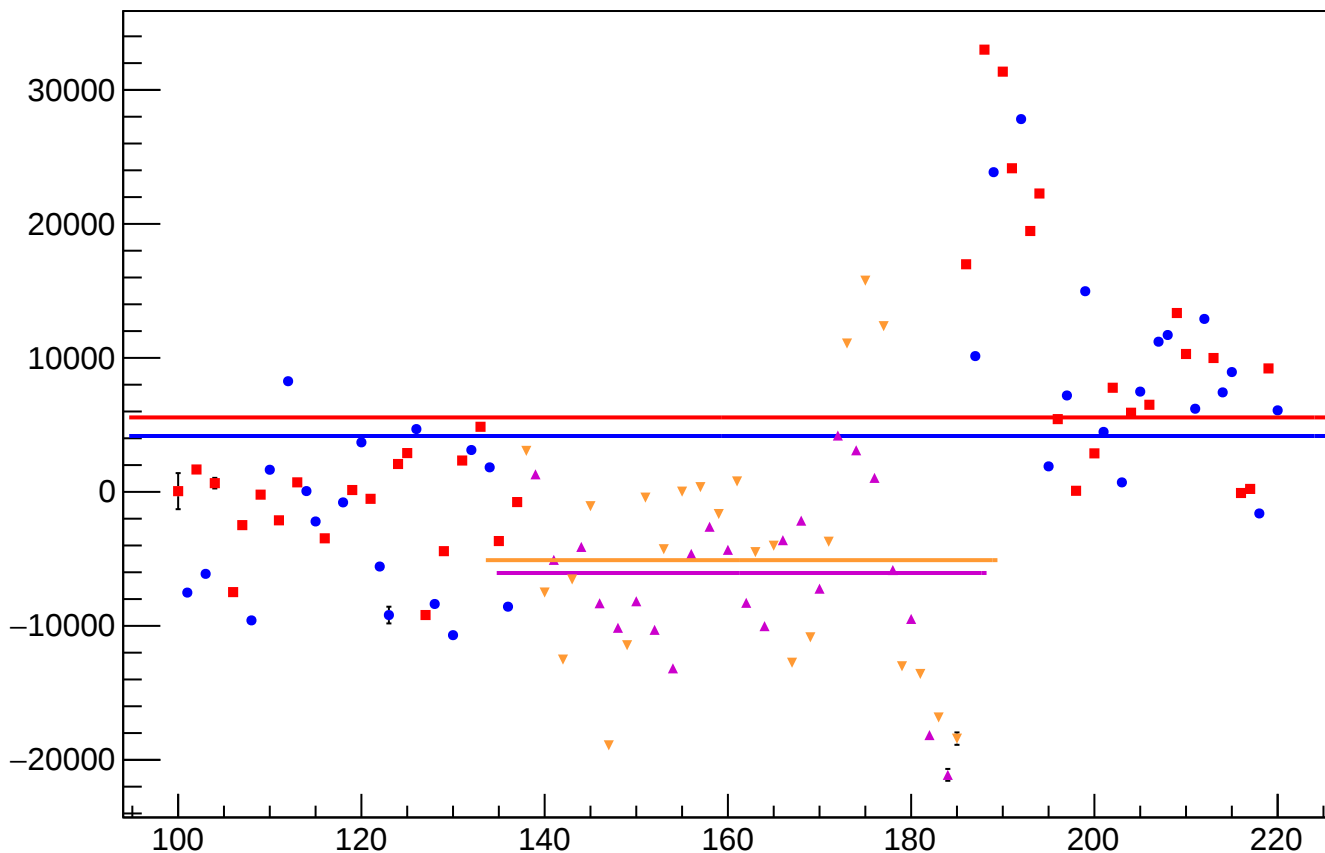
Right: 252.679 ± 0.034 $\chi^2/\text{NDF}: 19465737.6/70$

In: 228.175 ± 0.030 $\chi^2/\text{NDF}: 11283799.4/56$

Out: 235.155 ± 0.029 $\chi^2/\text{NDF}: 9951066.5/61$

All: 231.701 ± 0.021 $\chi^2/\text{NDF}: 21262981.4/11$

asym_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: 4170.869+/-32.932

χ^2/NDF : 80876.8/33

Left: -5556.386+/-24.277

χ^2/NDF : 72374.6/47

Left Out: -5095.305+/-33.703

χ^2/NDF : 54395.4/24

Right: 4890.145+/-22.844

χ^2/NDF : 187161.7/70

Right Out: 5557.266+/-31.715

χ^2/NDF : 105365.4/36

In: -630.640+/-23.984

χ^2/NDF : 143734.6/56

Out: 554.408+/-23.097

χ^2/NDF : 212743.2/61

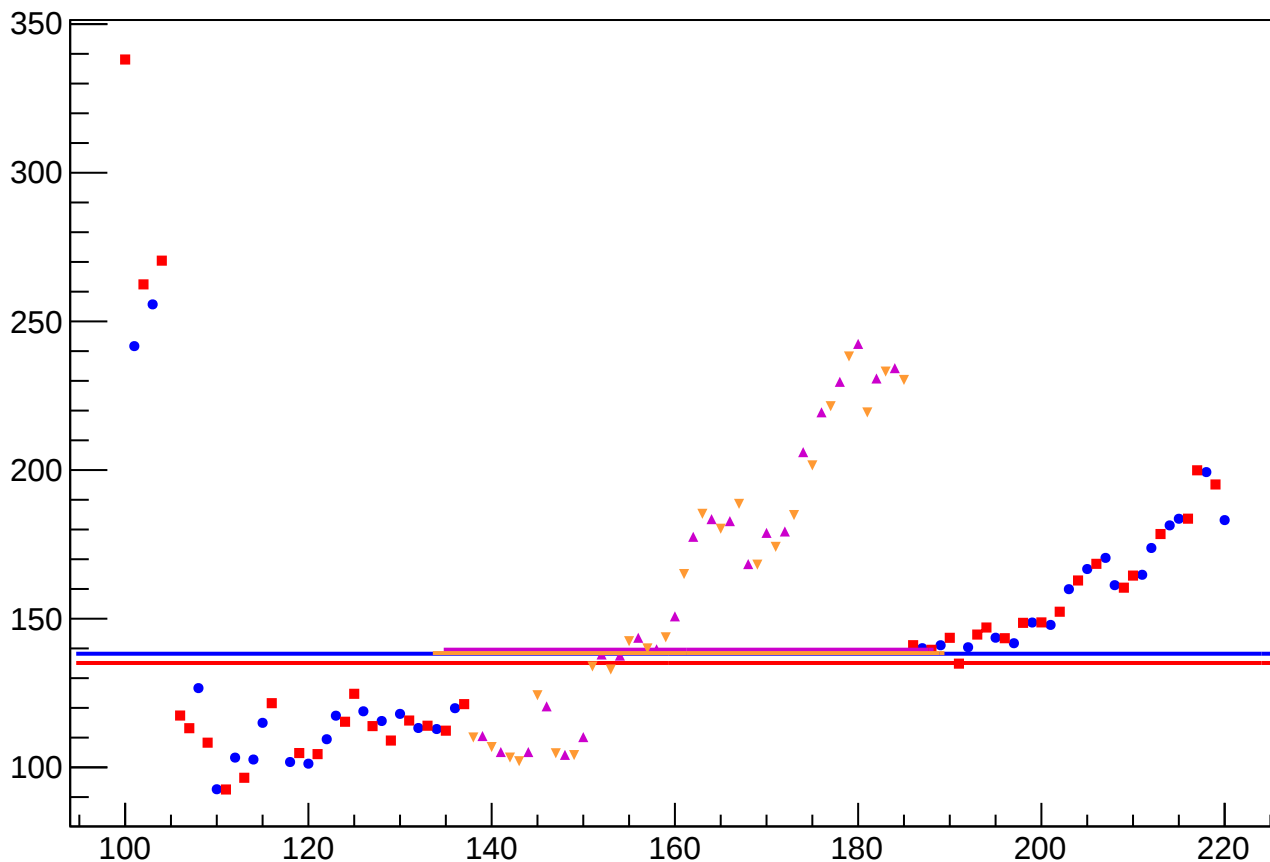
Left In: -6053.569+/-34.998

χ^2/NDF : 17590.3/22

All: -15.810+/-16.637

χ^2/NDF : 357744.5/118

asym_bpm1i02WS_rms vs Slug, Sign Corrected



Right In: 138.219+/-0.023 χ^2/NDF : 1883008.8/33

Left Out: 138.436+/-0.024 χ^2/NDF :2549435.8/24

Right Out: 135.104+/-0.022 χ^2/NDF : 2016763.8/36

Left In: 139.578+/-0.025 χ^2/NDF :2413658.9/22

Left: 138.985+/-0.017 χ^2/NDF : 4964199.7/47

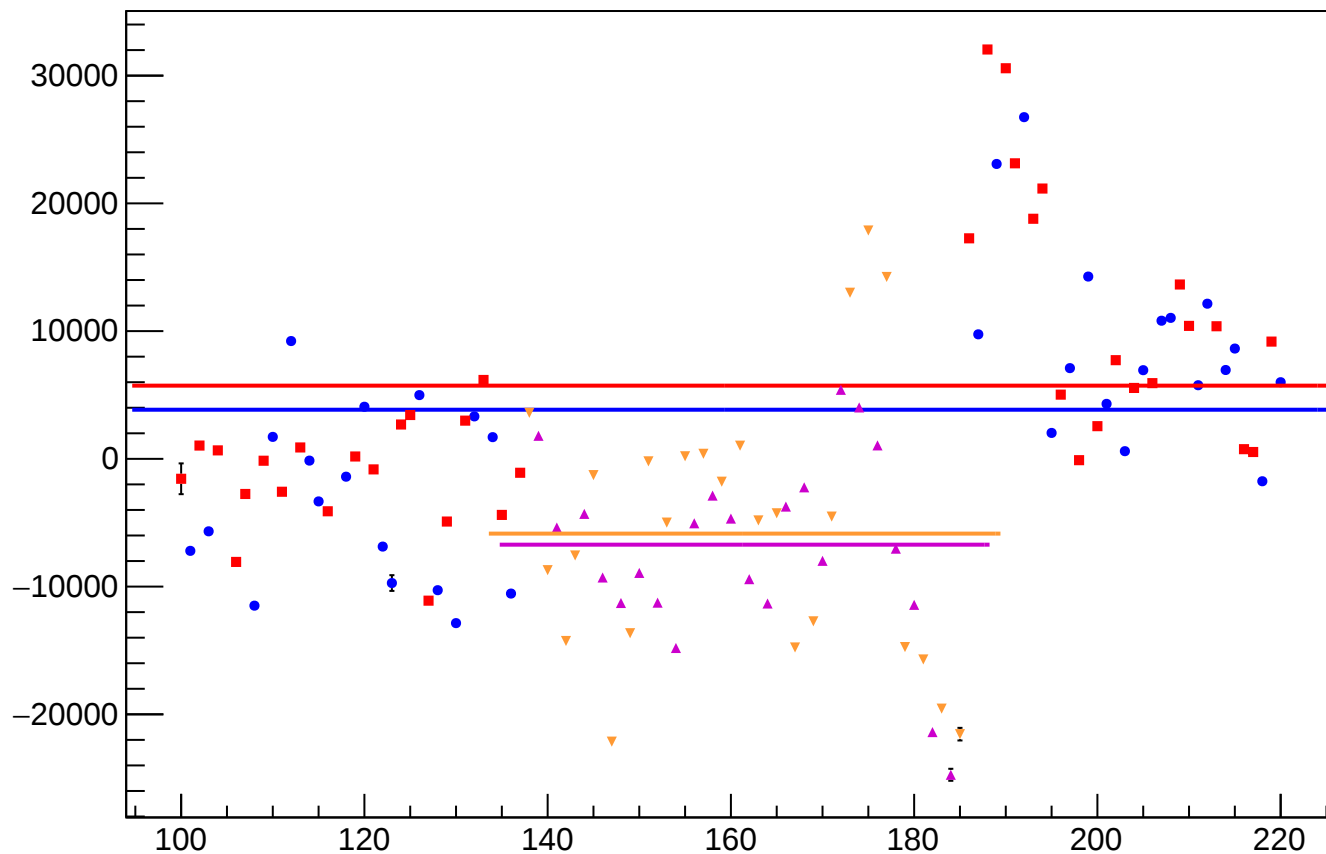
Right: 136.603+/-0.016 χ^2/NDF : 3909054.8/70

In: 138.857+/-0.017 χ^2/NDF :4298266.8/56

Out: 136.669+/-0.016 χ^2/NDF :4576563.9/61

All: 137.722+/-0.012 χ^2/NDF : 8883468.9/118

asym_bpm2i01WS_mean vs Slug, Sign Corrected



Right In: 3846.060 ± 32.830 χ^2/NDF : 86038.1/33

Left Out: -5852.544 ± 35.880 χ^2/NDF : 63411.4/24

Right Out: 5730.892 ± 31.750 χ^2/NDF : 106042.0/36

Left In: -6718.475 ± 37.276 χ^2/NDF : 20934.3/22

Left: -6268.993 ± 25.850 χ^2/NDF : 84625.8/47

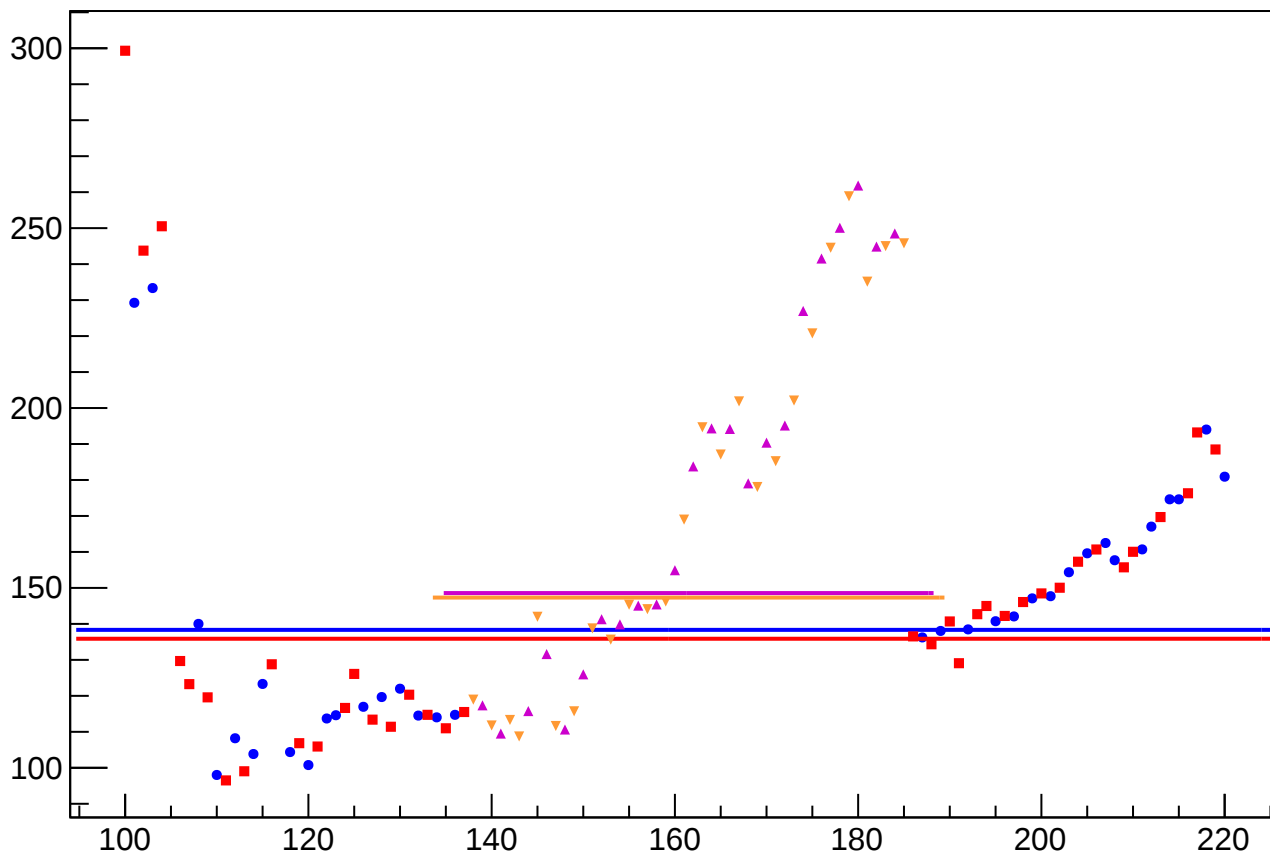
Right: 4819.968 ± 22.823 χ^2/NDF : 193783.3/70

In: -768.914 ± 24.637 χ^2/NDF : 152208.7/56

Out: 643.816 ± 23.777 χ^2/NDF : 227906.6/61

All: -37.481 ± 17.109 χ^2/NDF : 381817.7/118

asym_bpm2i01WS_rms vs Slug, Sign Corrected



Right In: 138.341+/-0.023 χ^2/NDF : 1510267.0/33

Left Out: 147.317+/-0.025 χ^2/NDF : 2511679.9/24

Right Out: 135.872+/-0.022 χ^2/NDF : 1581863.9/36

Left In: 148.569+/-0.026 χ^2/NDF : 2393185.0/22

Left: 147.919+/-0.018 χ^2/NDF : 4906034.9/47

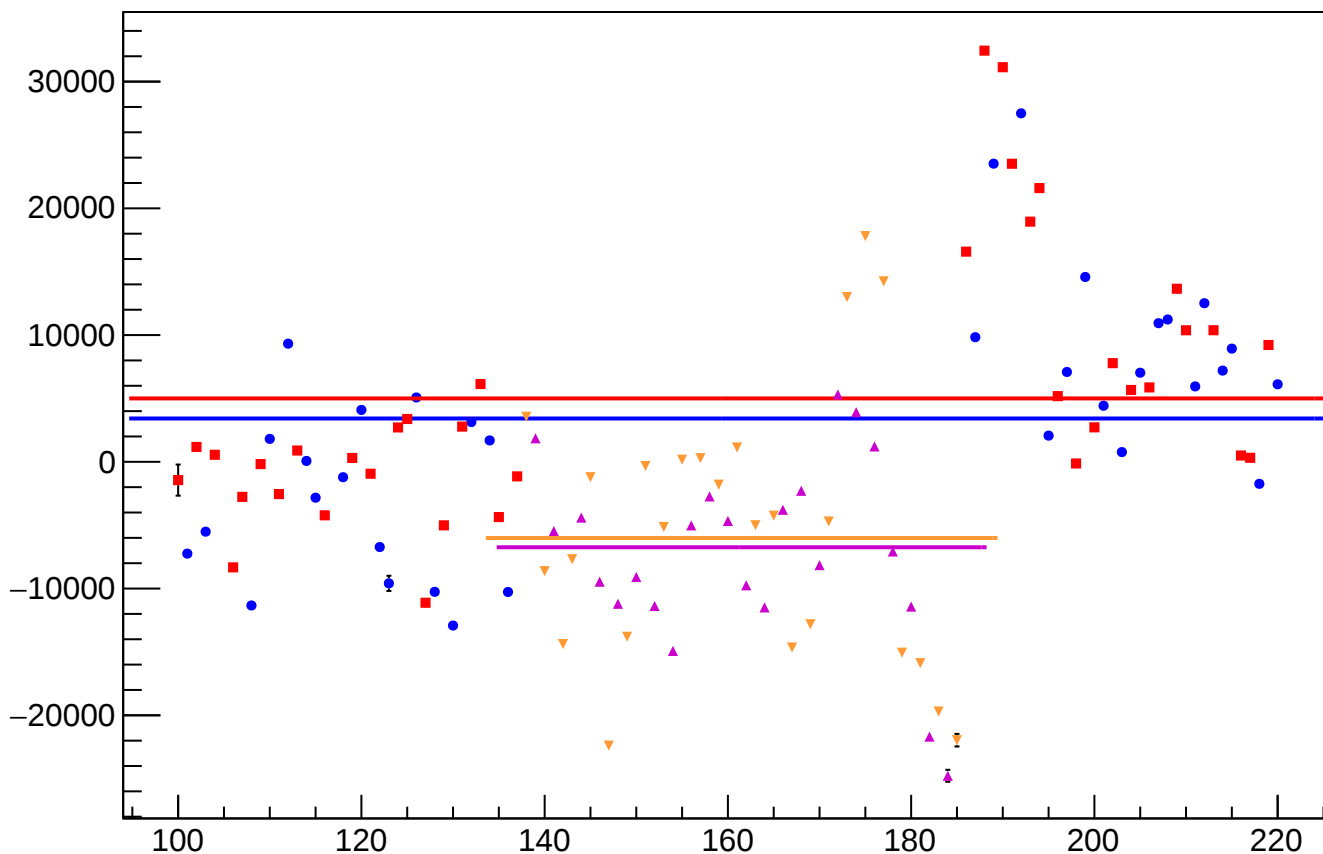
Right: 137.065+/-0.016 χ^2/NDF : 3097977.5/70

In: 142.809+/-0.017 χ^2/NDF : 3988237.6/56

Out: 140.898+/-0.017 χ^2/NDF : 4207674.7/61

All: 141.820+/-0.012 χ^2/NDF : 8202139.9/118

asym_bpm2i02WS_mean vs Slug, Sign Corrected



Right In: 3418.388+/-33.024

χ^2/NDF : 85742.3/33

Left: -6362.031+/-25.253

χ^2/NDF : 90133.1/47

Left Out: -6009.913+/-35.082

χ^2/NDF : 67852.2/24

Right: 4237.038+/-22.952

χ^2/NDF : 187773.1/70

Right Out: 5001.975+/-31.923

χ^2/NDF : 100842.1/36

In: -1171.208+/-24.452

χ^2/NDF : 150566.1/56

Out: 14.146+/-23.611

χ^2/NDF : 222592.4/61

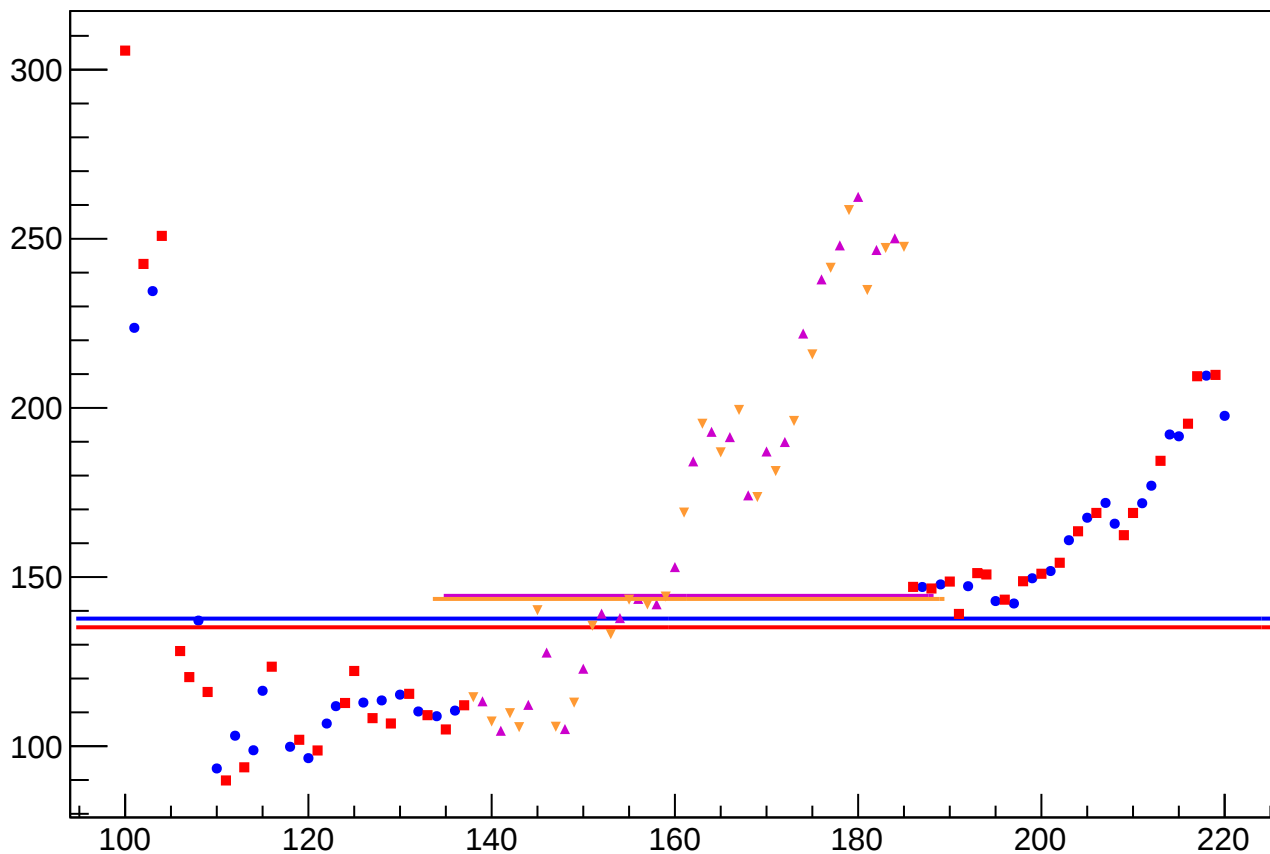
Left In: -6740.666+/-36.379

χ^2/NDF : 22071.8/22

All: -557.793+/-16.985

χ^2/NDF : 374374.6/11

asym_bpm2i02WS_rms vs Slug, Sign Corrected



Right In: 137.718 $\pm$ 0.023 χ^2 /NDF: 2163628.6/33

Left Out: 143.531 $\pm$ 0.025 χ^2 /NDF: 2704790.3/24

Right Out: 135.147 $\pm$ 0.023 χ^2 /NDF: 2282027.3/36

Left In: 144.440 $\pm$ 0.026 χ^2 /NDF: 2586926.1/22

Left: 143.969 $\pm$ 0.018 χ^2 /NDF: 5292363.3/47

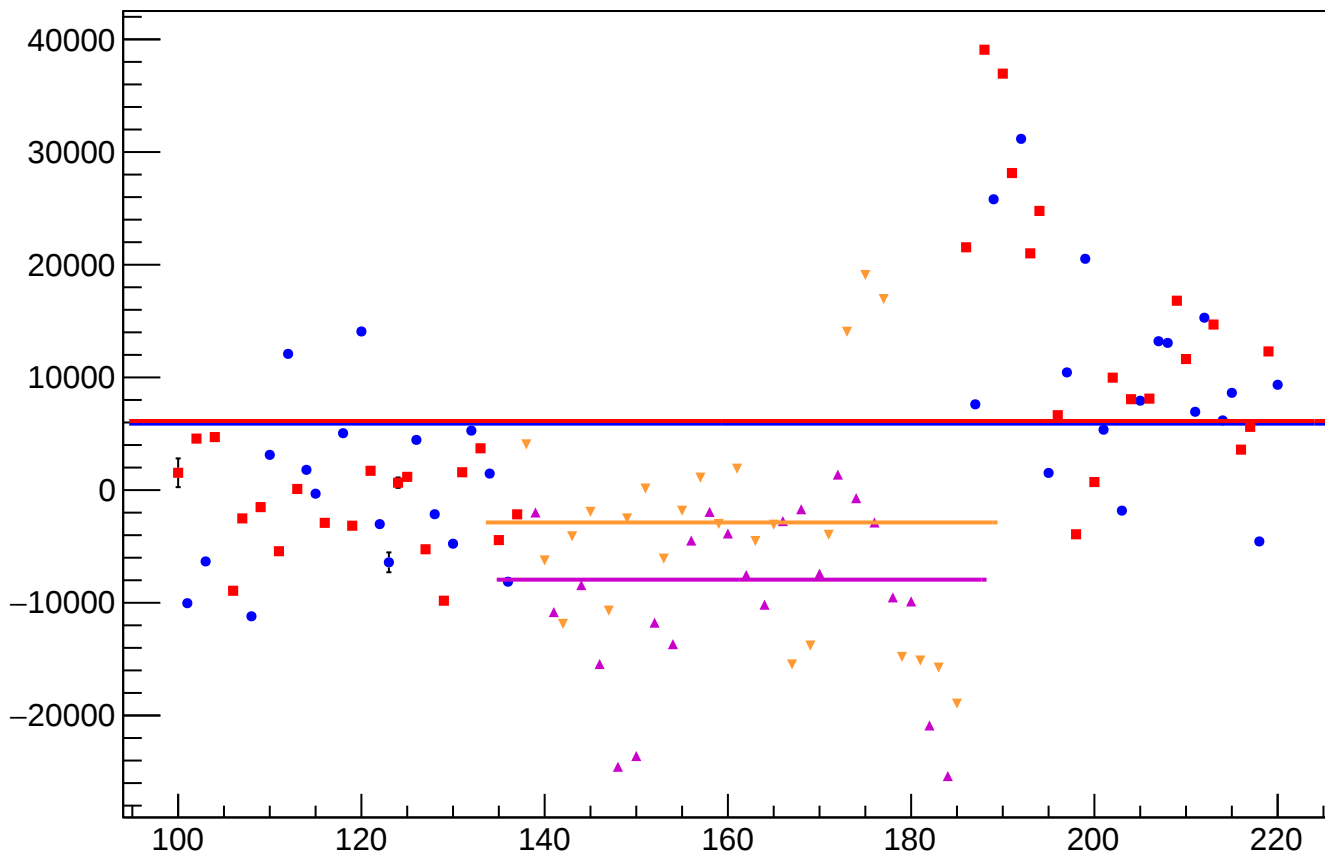
Right: 136.389 $\pm$ 0.016 χ^2 /NDF: 4451921.8/70

In: 140.755 $\pm$ 0.017 χ^2 /NDF: 4787983.5/56

Out: 138.945 $\pm$ 0.017 χ^2 /NDF: 5049294.4/61

All: 139.818 $\pm$ 0.012 χ^2 /NDF: 9842950.5/118

asym_bpm0i01WS_mean vs Slug, Sign Corrected



Right In: 5899.514+/-39.661 χ^2/NDF : 65303.4/33

Left Out: -2870.473+/-39.482 χ^2/NDF : 46420.3/24

Right Out: 6131.506+/-38.395 χ^2/NDF : 100504.3/36

Left In: -7947.160+/-41.726 χ^2/NDF : 23874.5/22

Left: -5268.670+/-28.678 χ^2/NDF : 78105.0/47

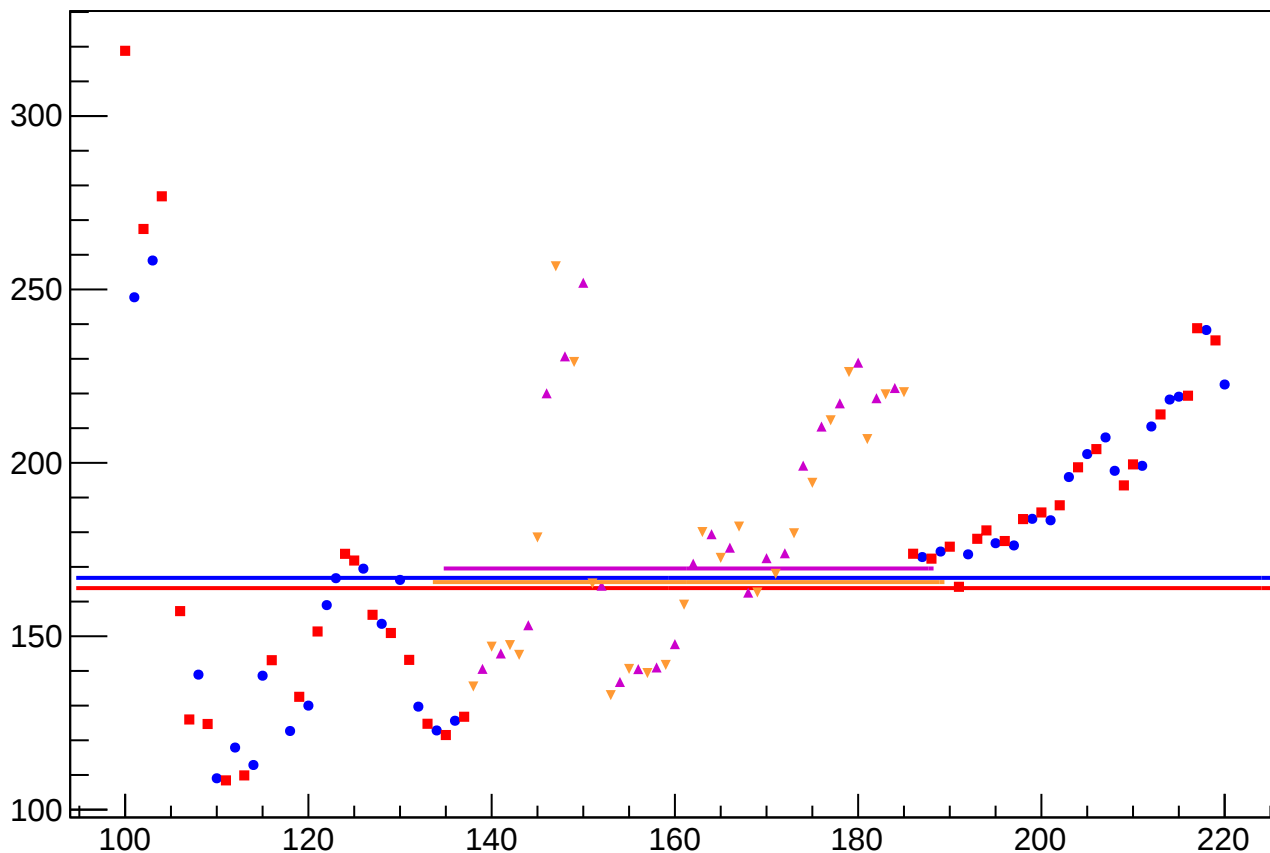
Right: 6019.269+/-27.586 χ^2/NDF : 165825.3/70

In: -672.689+/-28.747 χ^2/NDF : 147032.7/56

Out: 1756.123+/-27.526 χ^2/NDF : 173642.1/61

All: 594.383+/-19.881 χ^2/NDF : 324398.9/118

asym_bpm0i01WS_rms vs Slug, Sign Corrected



Right In: 166.834 $\pm$ 0.028 χ^2 /NDF: 1898840.9/33

Left Out: 165.616 $\pm$ 0.028 χ^2 /NDF:1144779.3/24

Right Out: 163.881 $\pm$ 0.027 χ^2 /NDF: 2012846.2/36

Left In: 169.542 $\pm$ 0.030 χ^2 /NDF:1159241.9/22

Left: 167.471 $\pm$ 0.020 χ^2 /NDF: 2313359.6/47

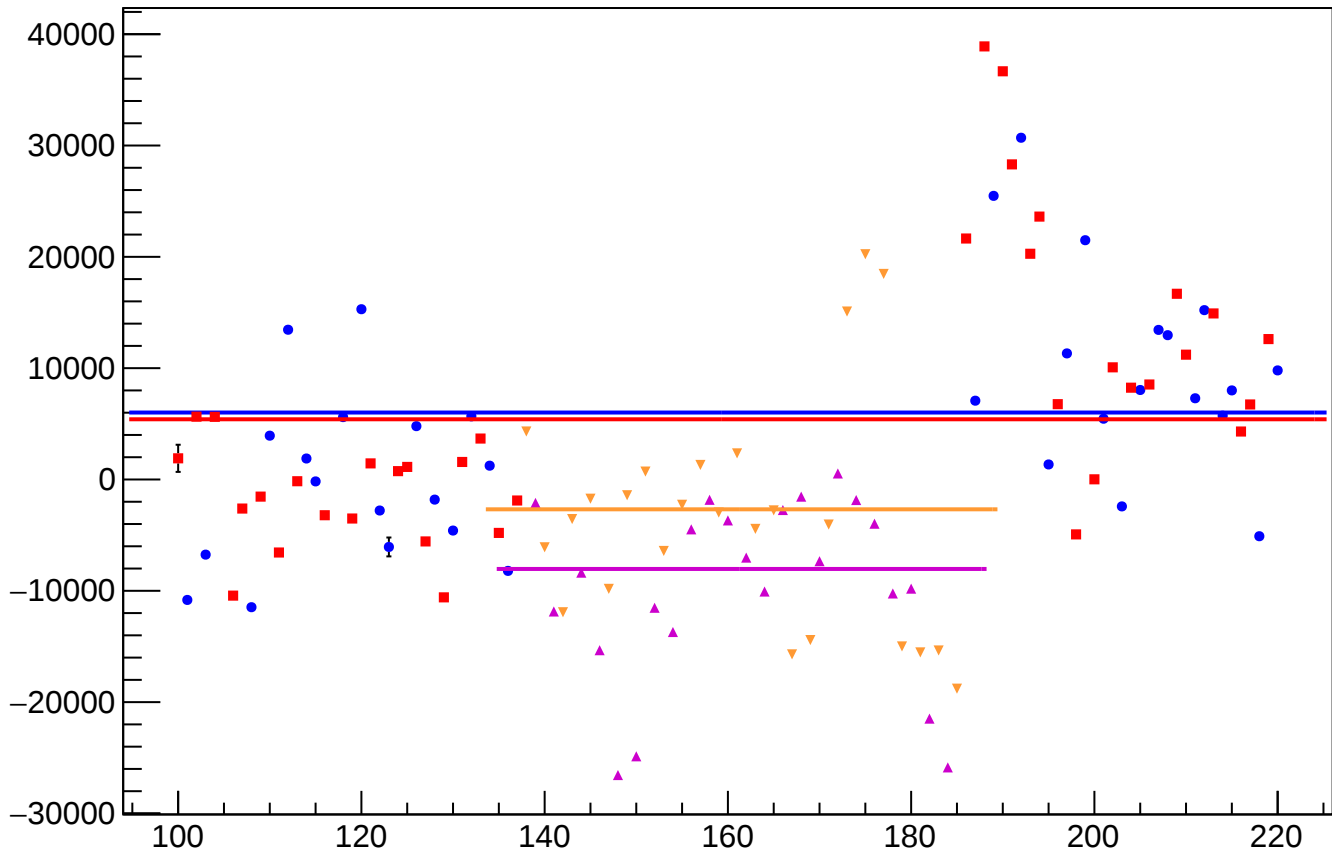
Right: 165.310 $\pm$ 0.020 χ^2 /NDF: 3917410.0/70

In: 168.119 $\pm$ 0.020 χ^2 /NDF:3062506.3/56

Out: 164.725 $\pm$ 0.019 χ^2 /NDF:3159610.2/61

All: 166.348 $\pm$ 0.014 χ^2 /NDF: 6236665.8/118

asym_bpm0i01aWS_mean vs Slug, Sign Corrected



Right In: 6014.917+/-33.712 χ^2/NDF : 91414.0/33

Left Out: -2680.012+/-35.764 χ^2/NDF : 56820.4/24

Right Out: 5407.887+/-32.410 χ^2/NDF : 140723.5/36

Left In: -8036.826+/-37.924 χ^2/NDF : 29261.6/22

Left: -5201.473+/-26.019 χ^2/NDF : 96642.3/47

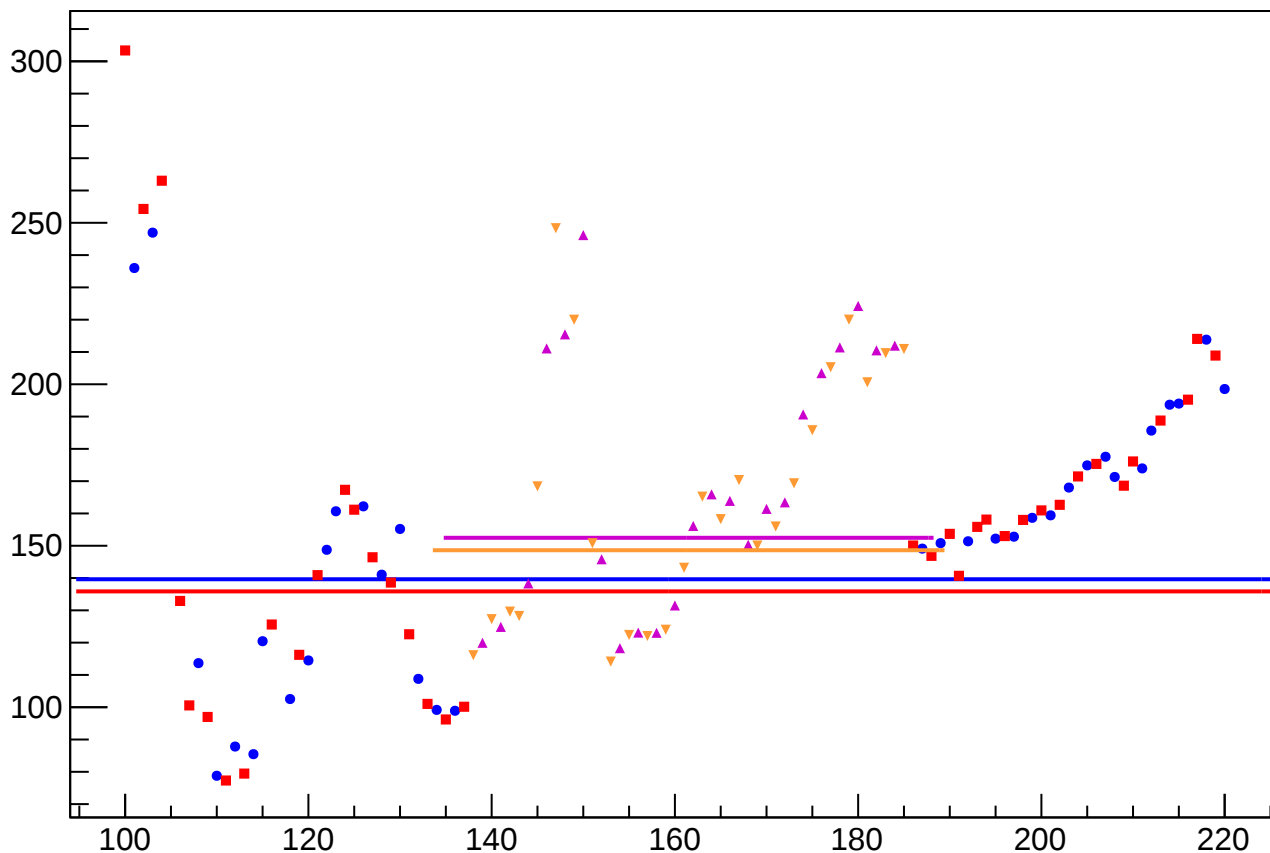
Right: 5699.450+/-23.364 χ^2/NDF : 232306.0/70

In: -187.609+/-25.196 χ^2/NDF : 197362.2/56

Out: 1760.844+/-24.016 χ^2/NDF : 225625.4/61

All: 833.340+/-17.384 χ^2/NDF : 426121.0/118

asym_bpm0i01aWS_rms vs Slug, Sign Corrected



Right In: 139.624+/-0.024 χ^2/NDF : 2828064.2/33

Left Out: 148.611+/-0.025 χ^2/NDF :1685424.1/24

Right Out: 135.864+/-0.023 χ^2/NDF : 3105473.6/36

Left In: 152.463+/-0.027 χ^2/NDF :1691517.7/22

Left: 150.424+/-0.018 χ^2/NDF : 3387867.0/47

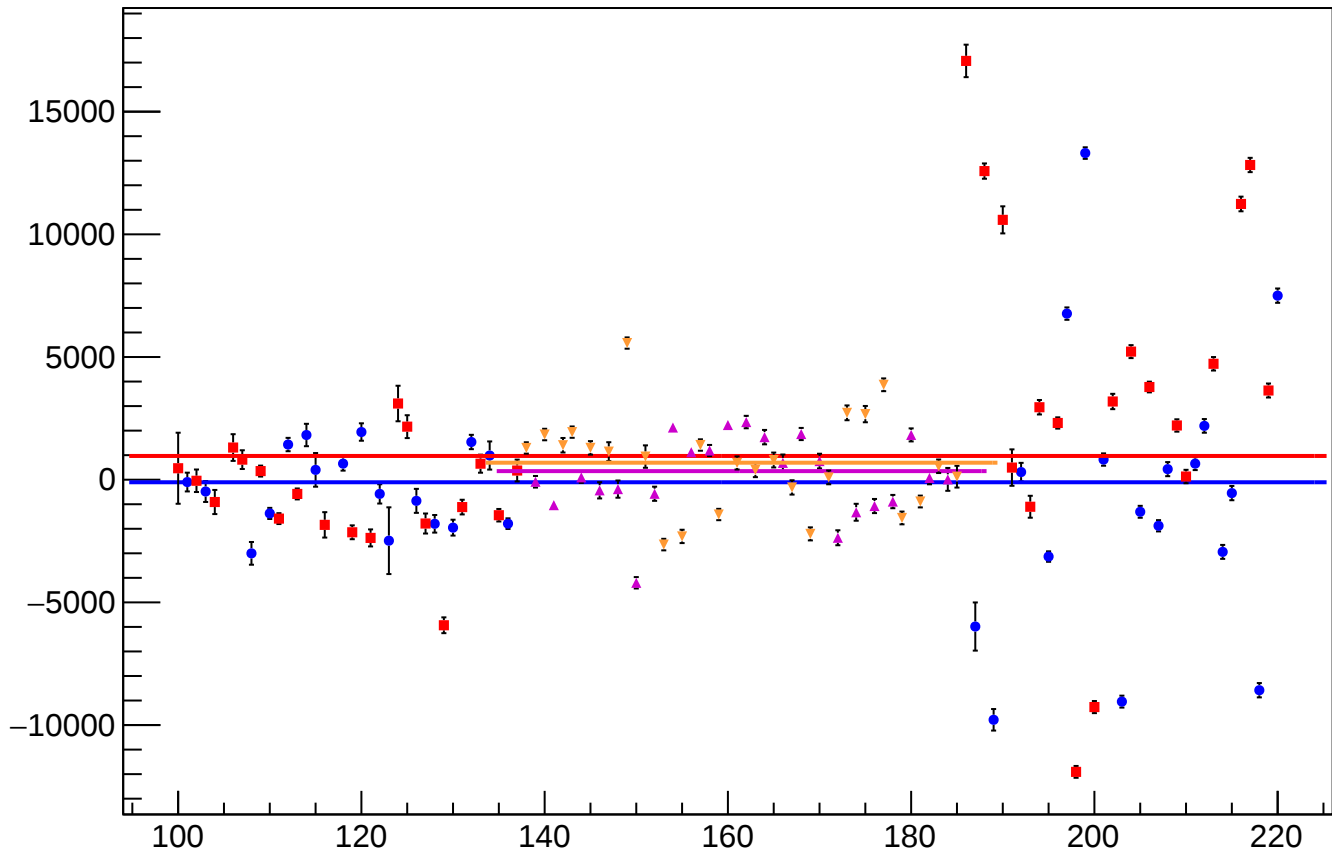
Right: 137.670+/-0.017 χ^2/NDF : 5946466.0/70

In: 145.292+/-0.018 χ^2/NDF :4647627.2/56

Out: 141.612+/-0.017 χ^2/NDF :4930389.3/61

All: 143.364+/-0.012 χ^2/NDF : 9600364.9/118

asym_bpm0l01WS_mean vs Slug, Sign Corrected



Right In: -104.479 ± 52.246 $\chi^2/\text{NDF}: 8185.1/33$

Left Out: 692.998 ± 54.303 $\chi^2/\text{NDF}: 1422.0/24$

Right Out: 967.604 ± 51.593 $\chi^2/\text{NDF}: 11674.5/36$

Left In: 349.623 ± 53.094 $\chi^2/\text{NDF}: 981.0/22$

Left: 517.444 ± 37.963 $\chi^2/\text{NDF}: 2423.4/47$

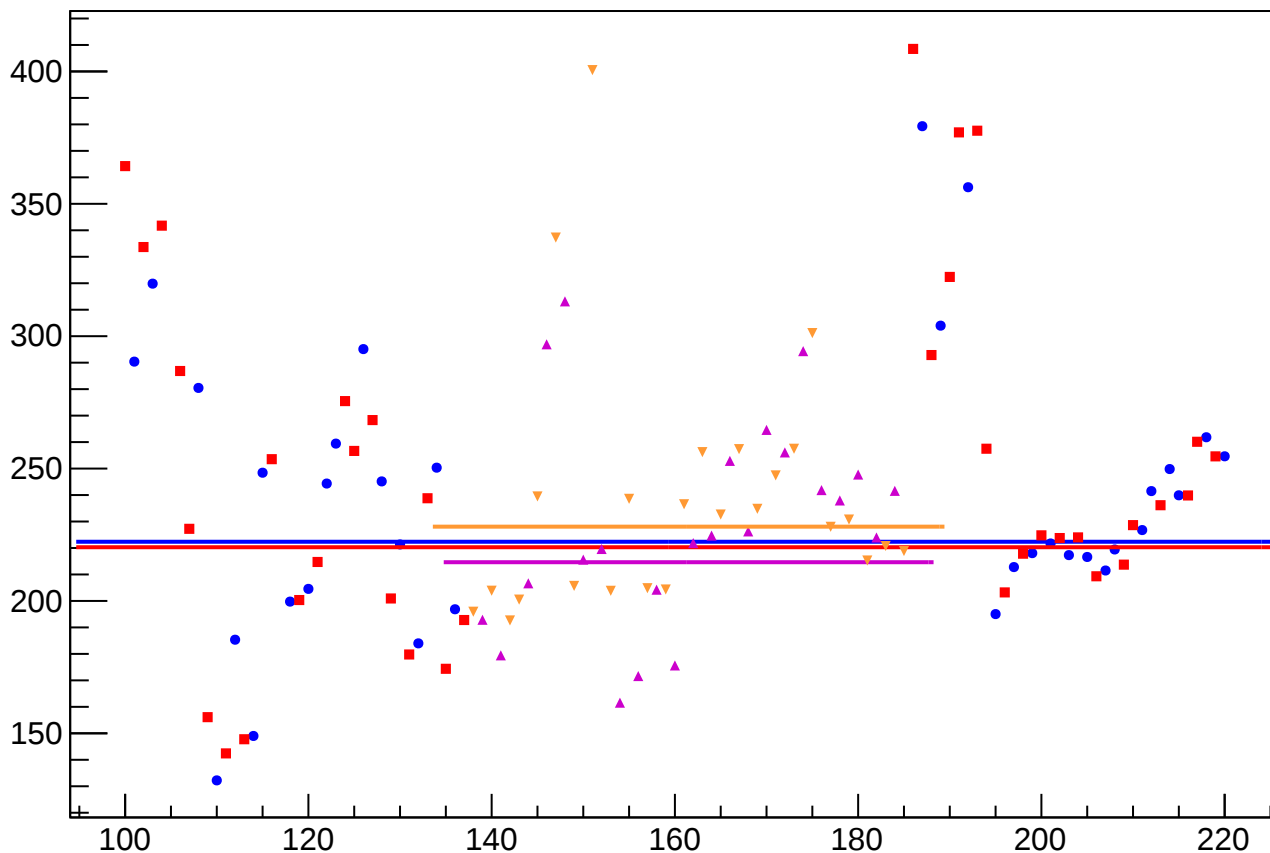
Right: 438.296 ± 36.710 $\chi^2/\text{NDF}: 20072.8/70$

In: 118.915 ± 37.240 $\chi^2/\text{NDF}: 9203.2/56$

Out: 837.324 ± 37.403 $\chi^2/\text{NDF}: 13109.9/61$

All: 476.542 ± 26.390 $\chi^2/\text{NDF}: 22498.4/118$

asym_bpm0l01WS_rms vs Slug, Sign Corrected



Right In: 222.358 ± 0.037 $\chi^2/\text{NDF}: 1267473.5/33$

Left Out: 228.061 ± 0.038 $\chi^2/\text{NDF}: 826343.8/24$

Right Out: 220.285 ± 0.036 $\chi^2/\text{NDF}: 1919195.7/36$

Left In: 214.627 ± 0.038 $\chi^2/\text{NDF}: 1025683.3/22$

Left: 221.193 ± 0.027 $\chi^2/\text{NDF}: 1914604.4/47$

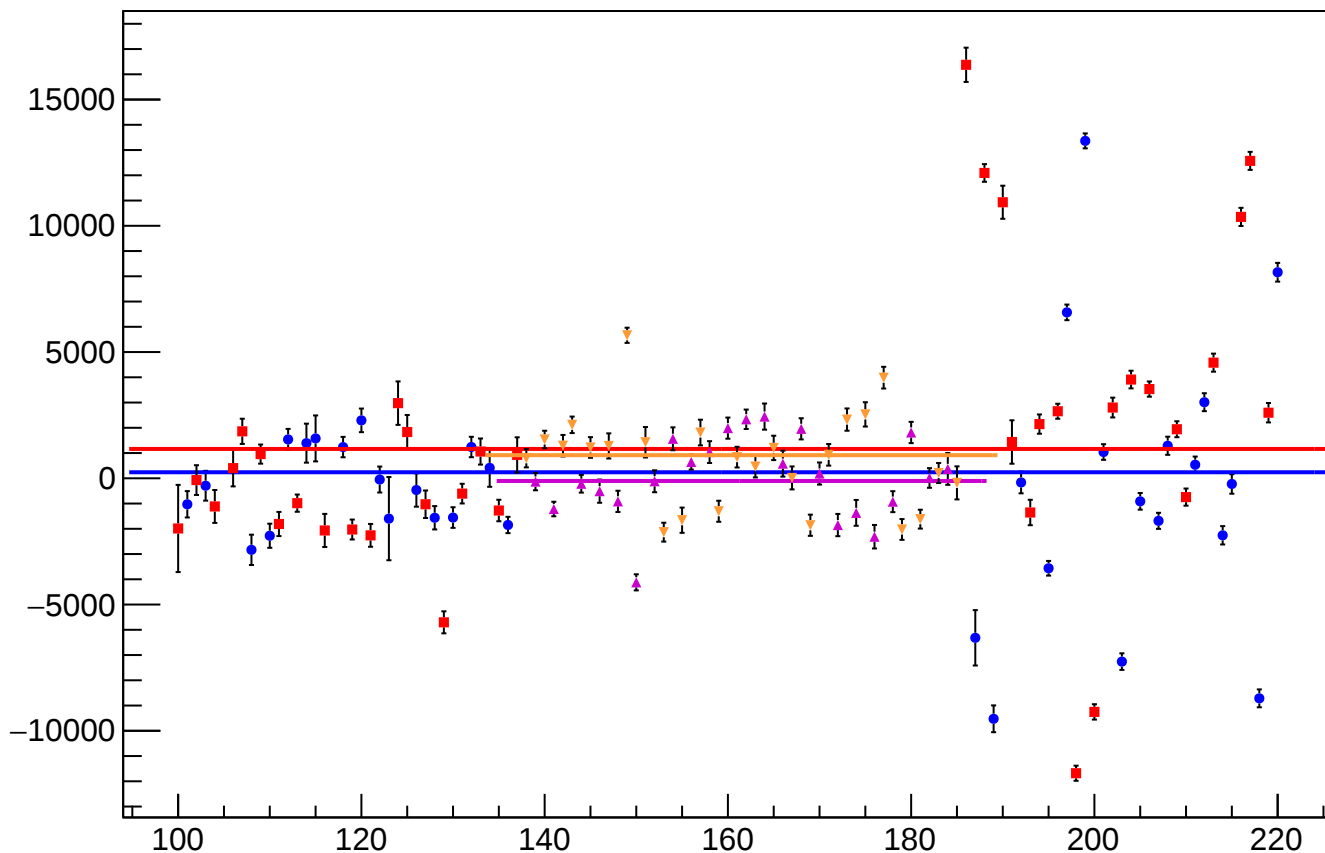
Right: 221.308 ± 0.026 $\chi^2/\text{NDF}: 3188263.2/70$

In: 218.555 ± 0.026 $\chi^2/\text{NDF}: 2314699.3/56$

Out: 223.974 ± 0.026 $\chi^2/\text{NDF}: 2767093.3/61$

All: 221.252 ± 0.019 $\chi^2/\text{NDF}: 5102877.2/118$

asym_bpm0l02WS_mean vs Slug, Sign Corrected



Right In: 238.671+/-69.895 χ^2/NDF : 4911.3/33

Left Out: 915.968+/-83.398 χ^2/NDF : 618.3/24

Right Out: 1162.705+/-69.372 χ^2/NDF : 7294.7/36

Left In: -106.116+/-84.393 χ^2/NDF : 390.3/22

Left: 410.985+/-59.320 χ^2/NDF : 1082.8/47

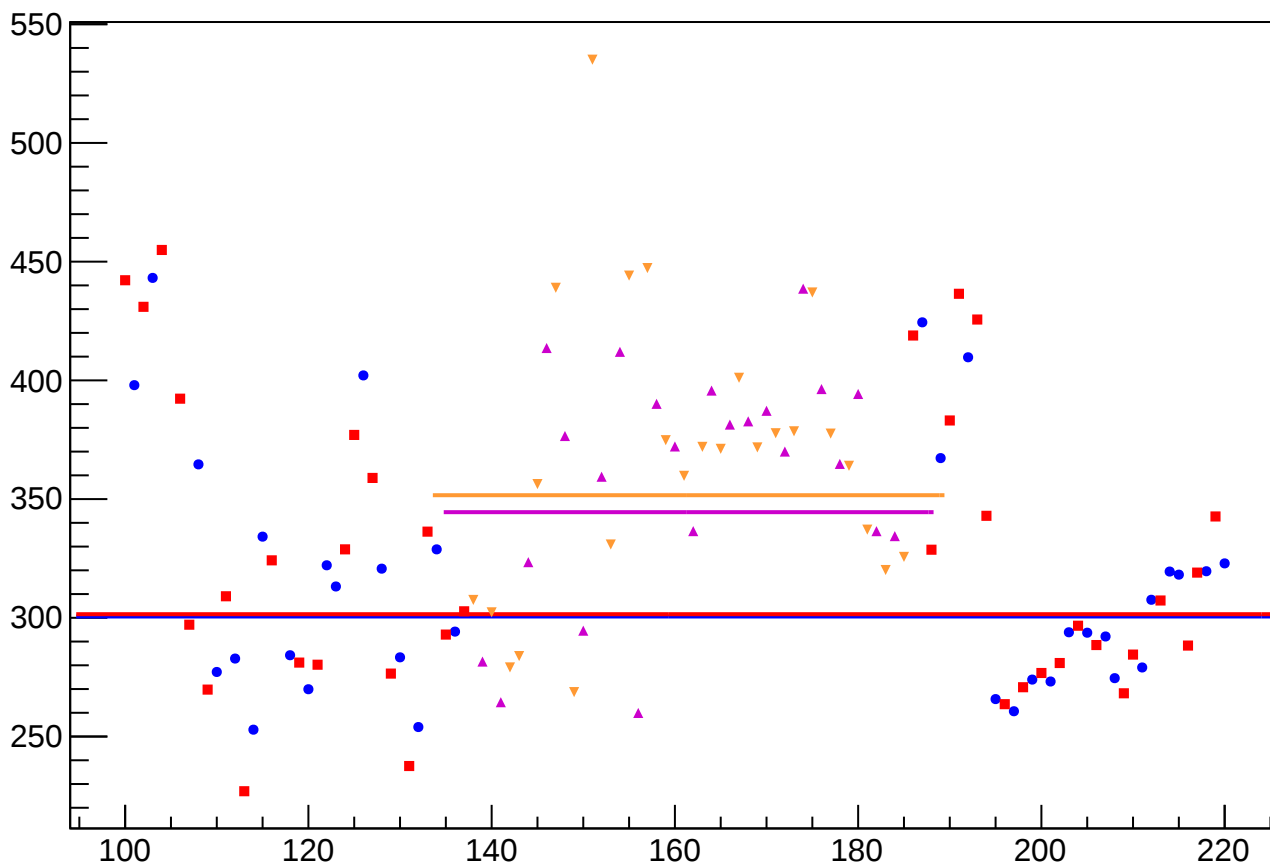
Right: 704.160+/-49.237 χ^2/NDF : 12294.0/70

In: 98.392+/-53.830 χ^2/NDF : 5311.5/56

Out: 1061.801+/-53.333 χ^2/NDF : 7918.1/61

All: 584.569+/-37.887 χ^2/NDF : 13391.2/118

asym_bpm0l02WS_rms vs Slug, Sign Corrected



Right In: 300.559+/-0.049 χ^2/NDF : 653254.8/33

Left Out: 351.633+/-0.059 χ^2/NDF : 907849.3/24

Right Out: 301.523+/-0.049 χ^2/NDF : 925806.5/36

Left In: 344.491+/-0.060 χ^2/NDF : 768885.4/22

Left: 348.104+/-0.042 χ^2/NDF : 1683981.7/47

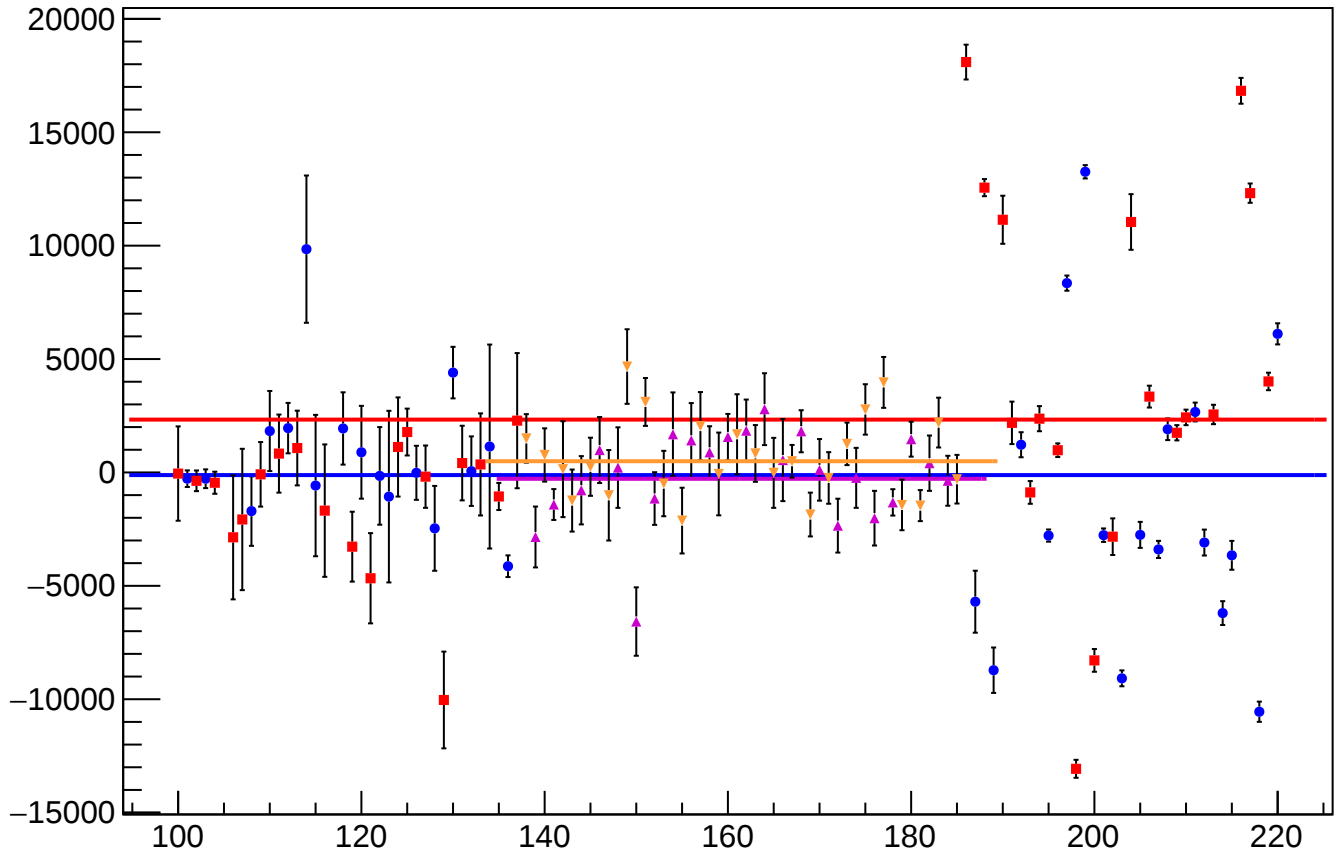
Right: 301.045+/-0.035 χ^2/NDF : 1579253.3/70

In: 318.433+/-0.038 χ^2/NDF : 1743611.7/56

Out: 322.016+/-0.038 χ^2/NDF : 2260408.0/61

All: 320.241+/-0.027 χ^2/NDF : 4008491.9/118

asym_bpm0l03WS_mean vs Slug, Sign Corrected



Right In: -116.381 ± 91.189 $\chi^2/\text{NDF}: 4821.1/33$

Left Out: 495.014 ± 231.058 $\chi^2/\text{NDF}: 56.2/24$

Right Out: 2329.712 ± 99.588 $\chi^2/\text{NDF}: 4736.5/36$

Left In: -280.692 ± 232.048 $\chi^2/\text{NDF}: 57.2/22$

Left: 108.818 ± 163.732 $\chi^2/\text{NDF}: 119.1/47$

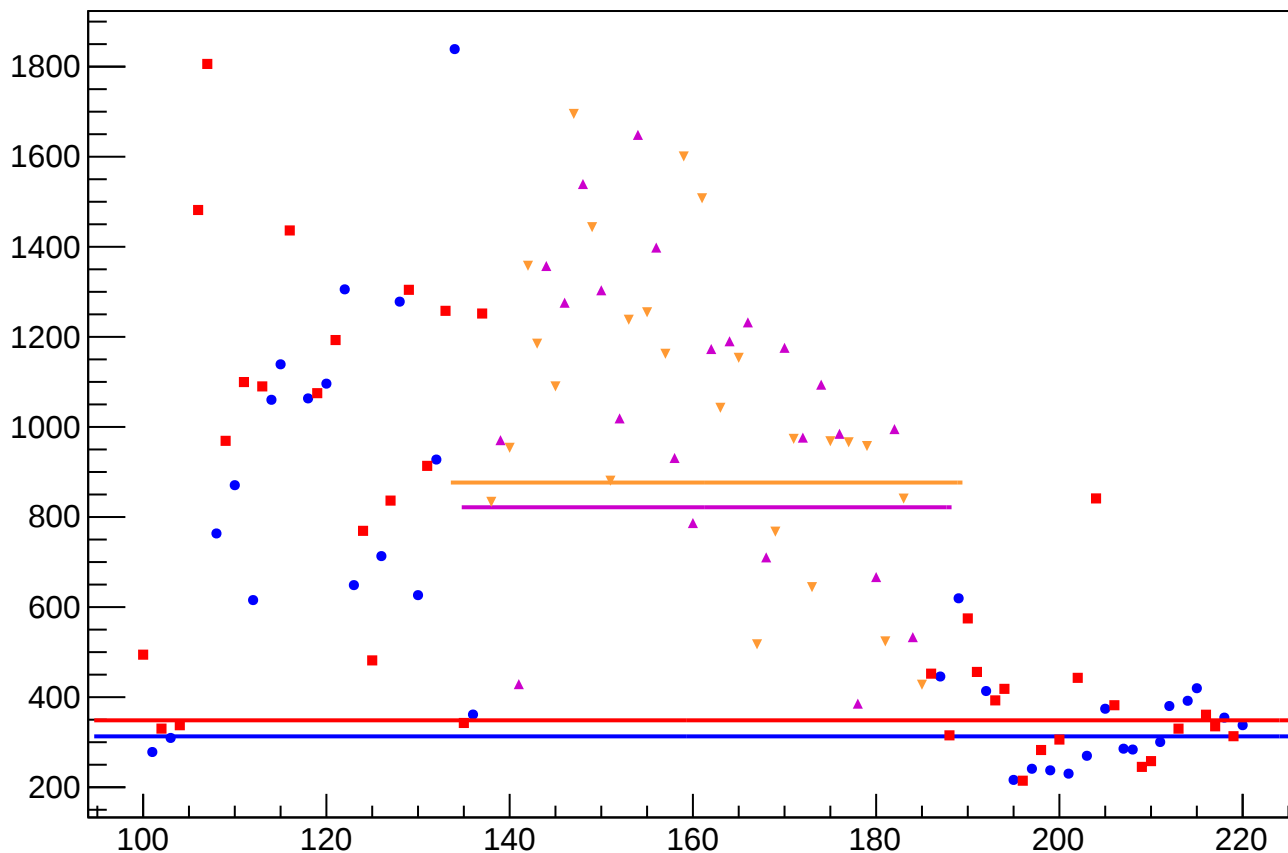
Right: 999.192 ± 67.254 $\chi^2/\text{NDF}: 9885.8/70$

In: -138.361 ± 84.871 $\chi^2/\text{NDF}: 4878.8/56$

Out: 2042.282 ± 91.455 $\chi^2/\text{NDF}: 4845.9/61$

All: 870.654 ± 62.210 $\chi^2/\text{NDF}: 10030.2/118$

asym_bpm0l03WS_rms vs Slug, Sign Corrected



Right In: 312.977 $\pm$ 0.064 χ^2 /NDF: 4582015.4/33

Left Out: 876.560 $\pm$ 0.163 χ^2 /NDF:3434698.7/24

Right Out: 348.605 $\pm$ 0.070 χ^2 /NDF: 5944167.5/36

Left In: 821.657 $\pm$ 0.164 χ^2 /NDF:4443094.2/22

Left: 849.226 $\pm$ 0.116 χ^2 /NDF: 7934012.4/47

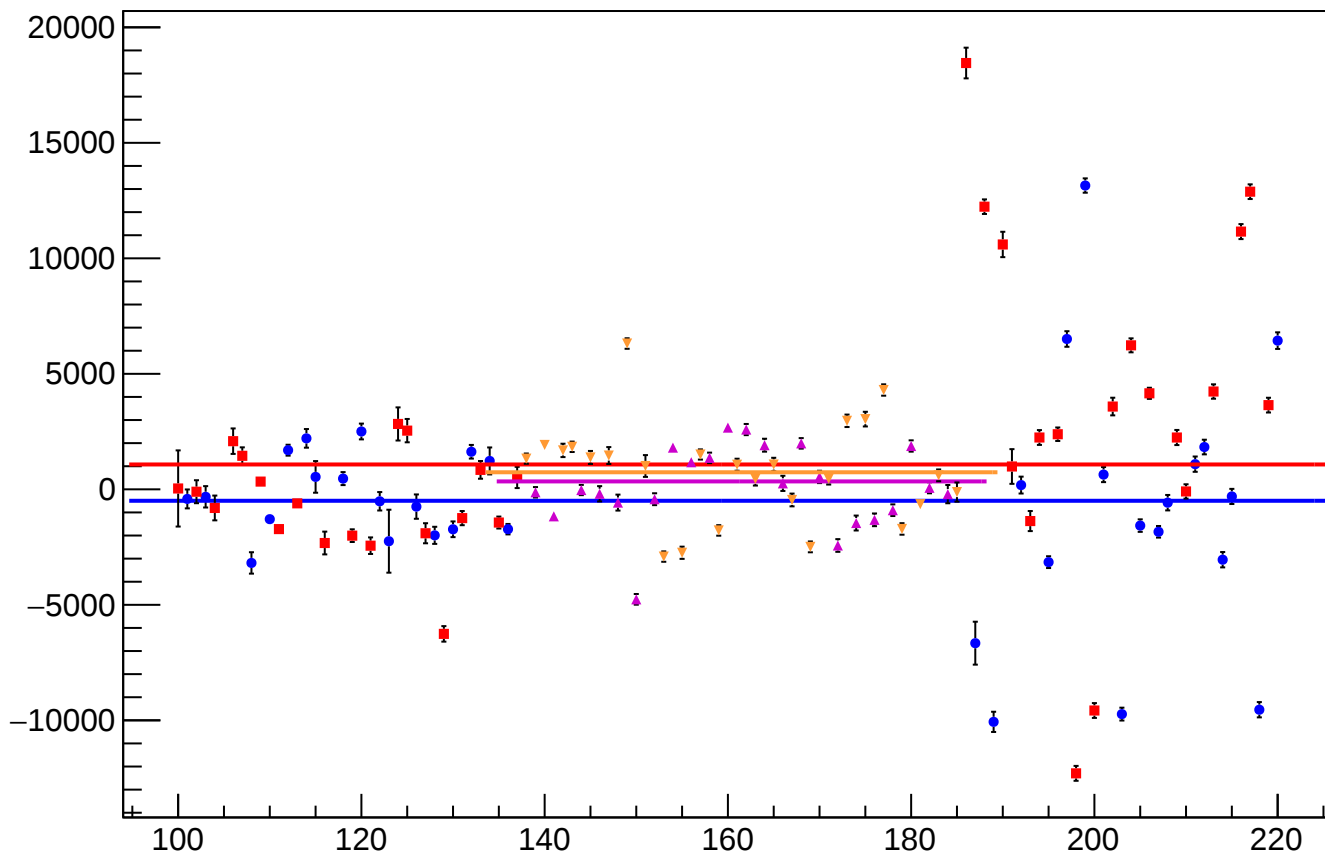
Right: 329.225 $\pm$ 0.048 χ^2 /NDF: 10665418.4/70

In: 381.024 $\pm$ 0.060 χ^2 /NDF:17350382.2/56

Out: 431.316 $\pm$ 0.065 χ^2 /NDF:18184946.2/61

All: 404.295 $\pm$ 0.044 χ^2 /NDF: 35860284.8/131

asym_bpm0l04WS_mean vs Slug, Sign Corrected



Right In: -495.615 ± 56.782 $\chi^2/\text{NDF}: 5799.2/33$

Left Out: 738.847 ± 51.649 $\chi^2/\text{NDF}: 1935.2/24$

Right Out: 1076.284 ± 54.643 $\chi^2/\text{NDF}: 9422.4/36$

Left In: 342.465 ± 50.044 $\chi^2/\text{NDF}: 1254.9/22$

Left: 534.403 ± 35.941 $\chi^2/\text{NDF}: 3220.5/47$

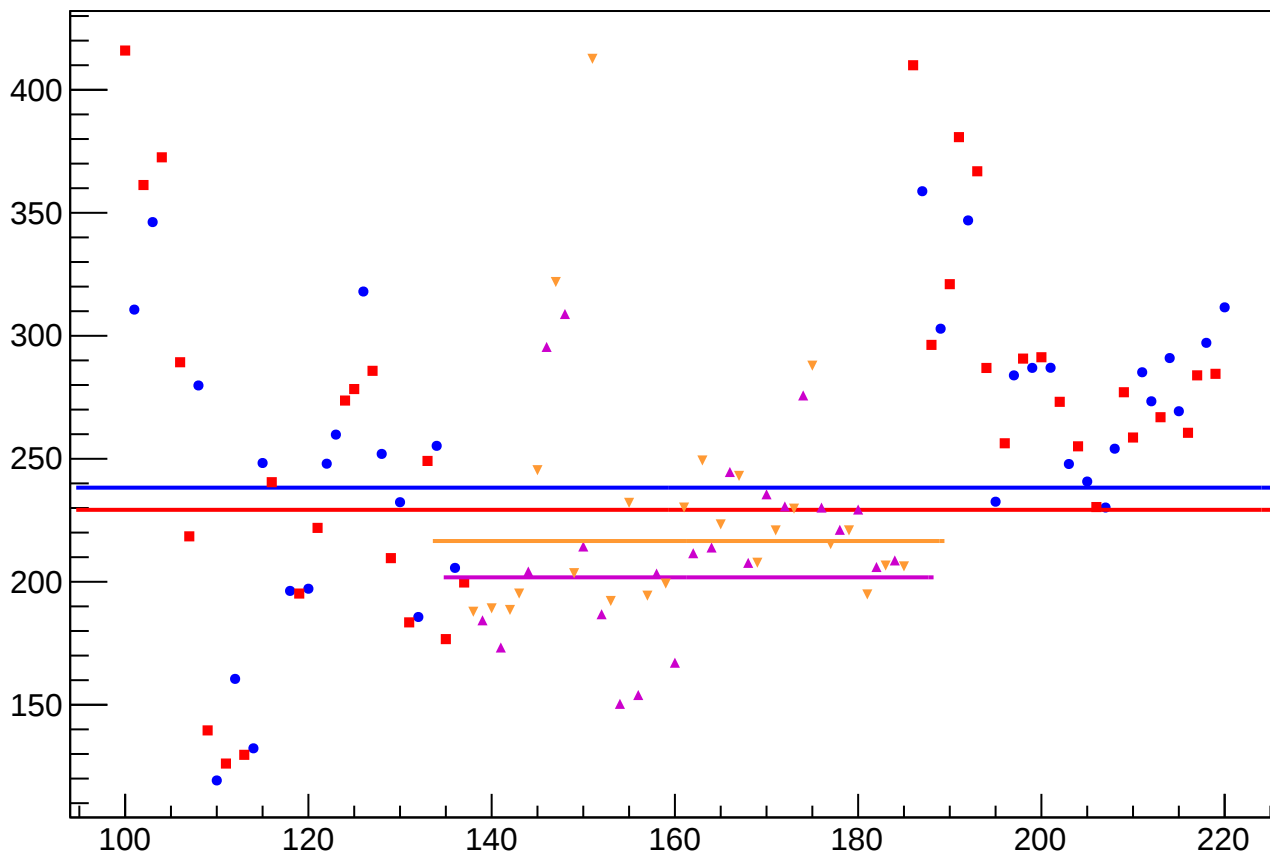
Right: 320.498 ± 39.373 $\chi^2/\text{NDF}: 15619.5/70$

In: -23.922 ± 37.544 $\chi^2/\text{NDF}: 7176.7/56$

Out: 898.067 ± 37.535 $\chi^2/\text{NDF}: 11377.8/61$

All: 437.180 ± 26.545 $\chi^2/\text{NDF}: 18856.1/118$

asym_bpm0l04WS_rms vs Slug, Sign Corrected



Right In: 238.268 $\pm$ 0.040 χ^2 /NDF: 2121646.5/33

Left Out: 216.574 $\pm$ 0.037 χ^2 /NDF:886214.1/24

Right Out: 229.253 $\pm$ 0.039 χ^2 /NDF: 3109627.4/36

Left In: 201.805 $\pm$ 0.035 χ^2 /NDF:1087243.4/22

Left: 208.957 $\pm$ 0.025 χ^2 /NDF: 2057801.5/47

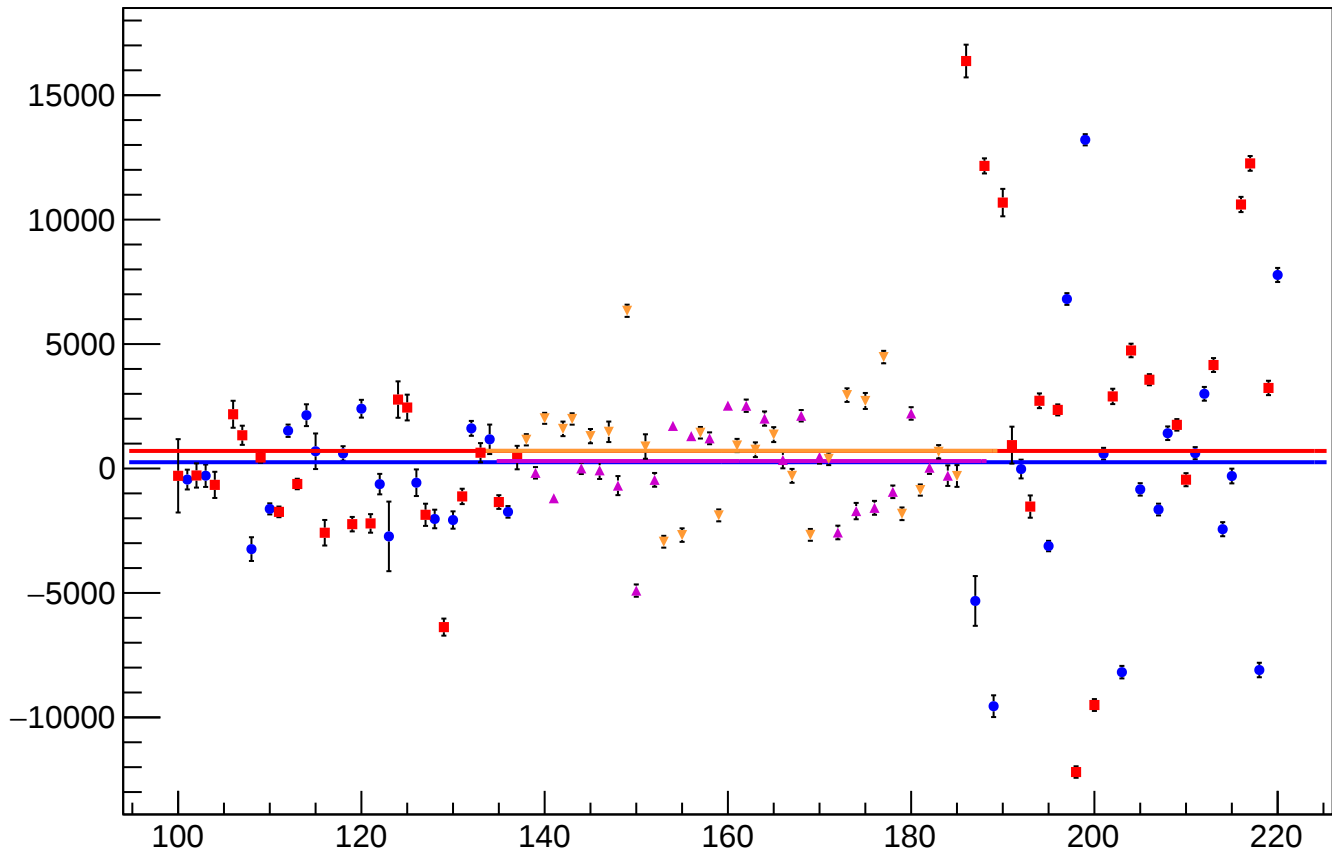
Right: 233.588 $\pm$ 0.028 χ^2 /NDF: 5257445.5/70

In: 217.746 $\pm$ 0.027 χ^2 /NDF:3673053.8/56

Out: 222.557 $\pm$ 0.027 χ^2 /NDF:4052712.7/61

All: 220.152 $\pm$ 0.019 χ^2 /NDF: 7742190.0/118

asym_bpm0l05WS_mean vs Slug, Sign Corrected



Right In: 252.668+/-52.102 χ^2/NDF : 8209.9/33

Left Out: 711.174+/-53.245 χ^2/NDF :1835.3/24

Right Out: 705.689+/-51.444 χ^2/NDF : 11616.2/36

Left In: 300.516+/-51.984 χ^2/NDF :1208.6/22

Left: 500.925+/-37.196 χ^2/NDF : 3074.4/47

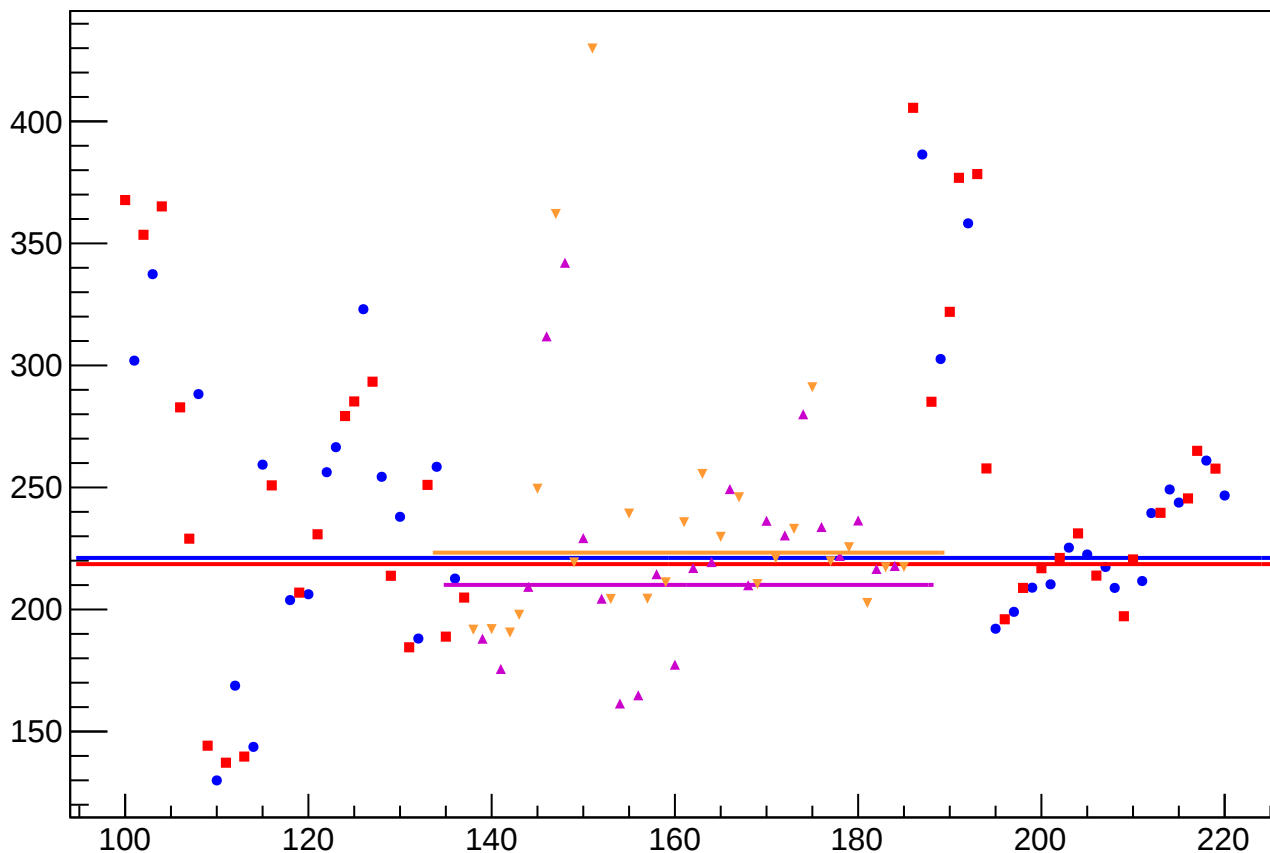
Right: 482.056+/-36.607 χ^2/NDF : 19864.4/70

In: 276.646+/-36.800 χ^2/NDF :9418.9/56

Out: 708.337+/-36.997 χ^2/NDF :13451.6/61

All: 491.340+/-26.091 χ^2/NDF : 22938.9/118

asym_bpm0l05WS_rms vs Slug, Sign Corrected



Right In: 221.129 ± 0.037 $\chi^2/\text{NDF}: 1458821.5/33$

Left Out: 223.296 ± 0.038 $\chi^2/\text{NDF}: 922768.4/24$

Right Out: 218.589 ± 0.036 $\chi^2/\text{NDF}: 2232364.7/36$

Left In: 210.080 ± 0.037 $\chi^2/\text{NDF}: 1015274.5/22$

Left: 216.530 ± 0.026 $\chi^2/\text{NDF}: 2001132.1/47$

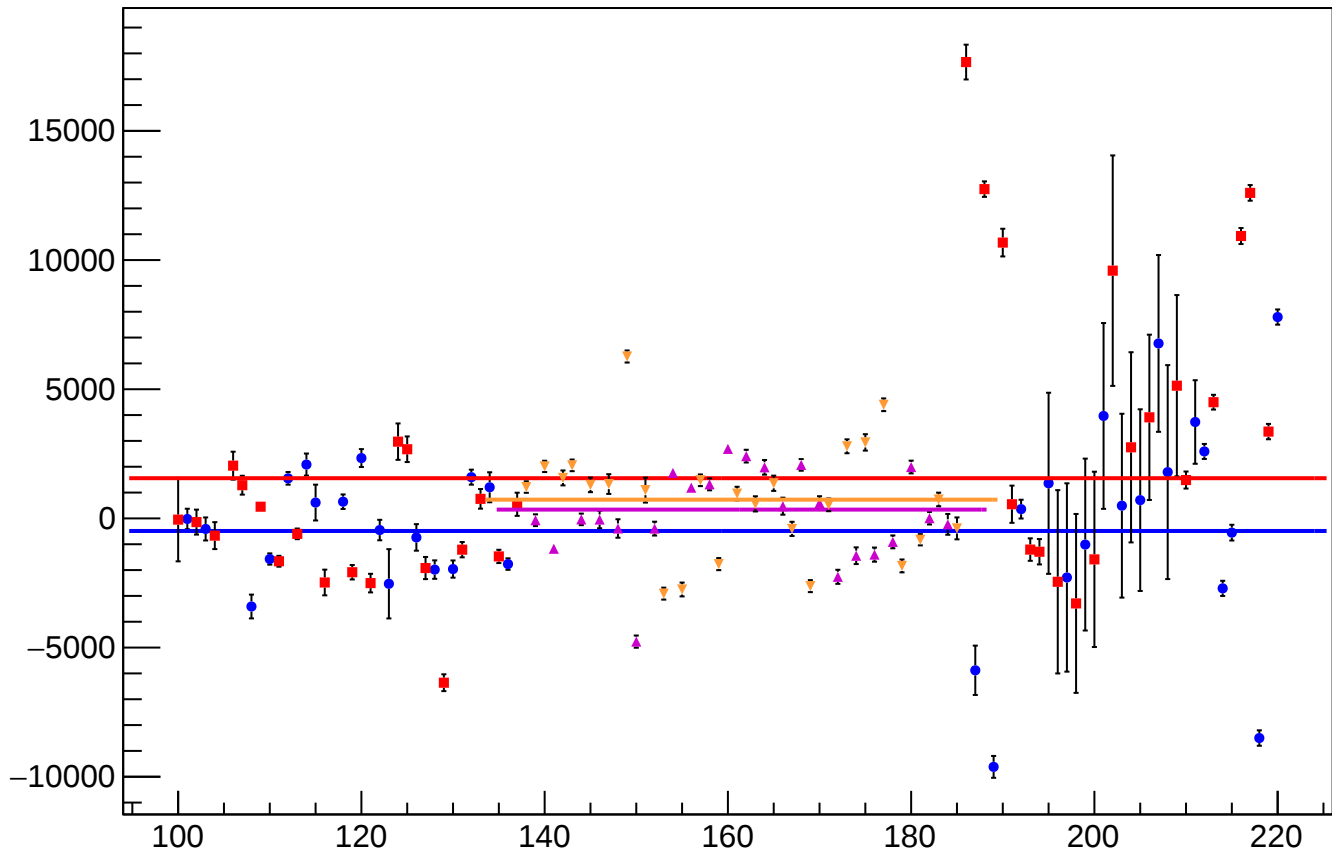
Right: 219.843 ± 0.026 $\chi^2/\text{NDF}: 3693593.1/70$

In: 215.592 ± 0.026 $\chi^2/\text{NDF}: 2519172.7/56$

Out: 220.862 ± 0.026 $\chi^2/\text{NDF}: 3163217.3/61$

All: 218.213 ± 0.018 $\chi^2/\text{NDF}: 5702786.9/118$

asym_bpm0l06WS_mean vs Slug, Sign Corrected



Right In: -486.475+/-67.837 χ^2/NDF : 2585.4/33

Left Out: 725.866+/-52.158 χ^2/NDF : 1912.7/24

Right Out: 1556.132+/-62.218 χ^2/NDF : 6392.8/36

Left In: 340.502+/-50.802 χ^2/NDF : 1201.8/22

Left: 528.110+/-36.393 χ^2/NDF : 3142.6/47

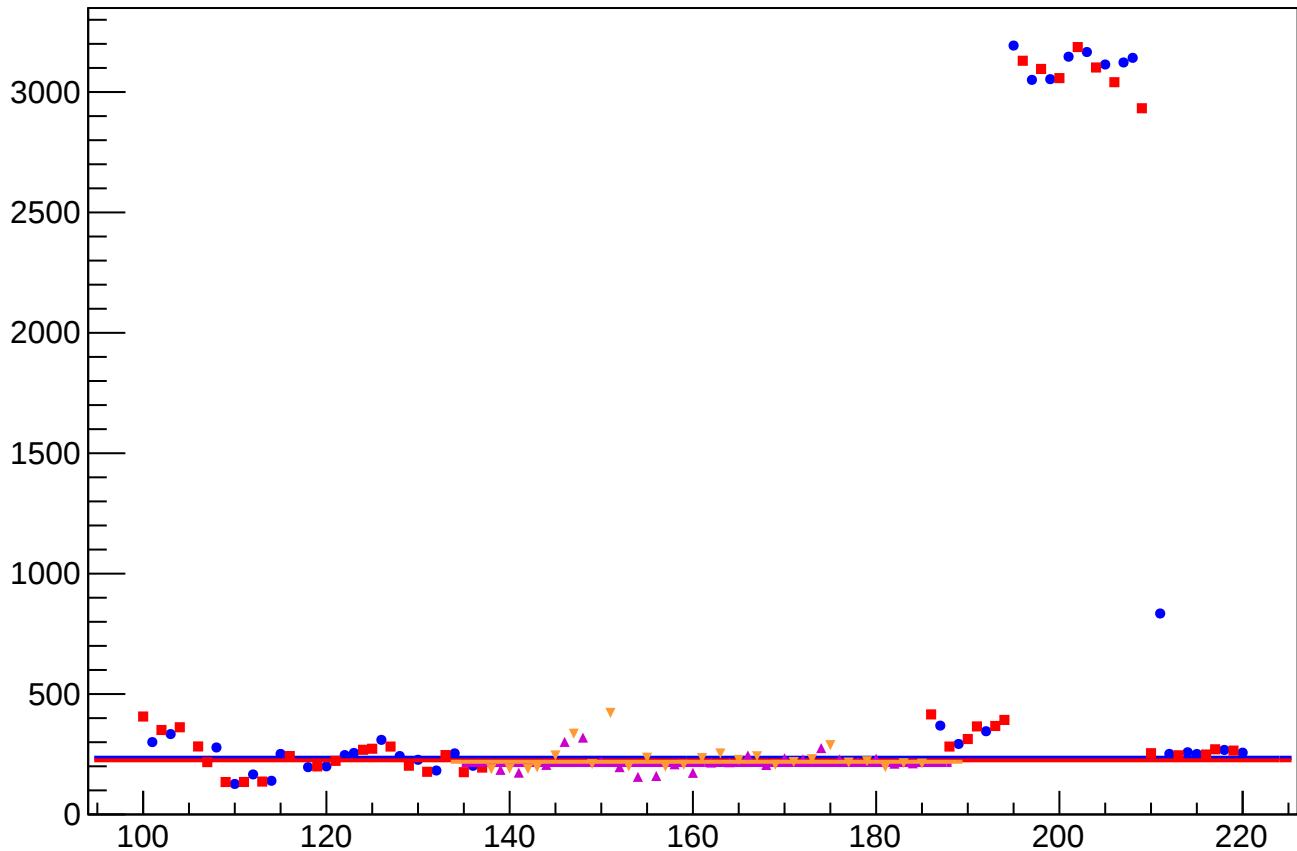
Right: 622.925+/-45.853 χ^2/NDF : 9470.6/70

In: 43.356+/-40.664 χ^2/NDF : 3882.4/56

Out: 1068.539+/-39.971 χ^2/NDF : 8410.1/61

All: 564.754+/-28.505 χ^2/NDF : 12615.8/118

asym_bpm0l06WS_rms vs Slug, Sign Corrected



Right In: 235.624+/-0.048 χ^2/NDF : 12210019.9/33

Left Out: 218.768+/-0.037 χ^2/NDF : 896914.5/24

Right Out: 224.793+/-0.044 χ^2/NDF : 11602787.2/36

Left In: 205.249+/-0.036 χ^2/NDF : 997168.8/22

Left: 211.831+/-0.026 χ^2/NDF : 1963037.5/47

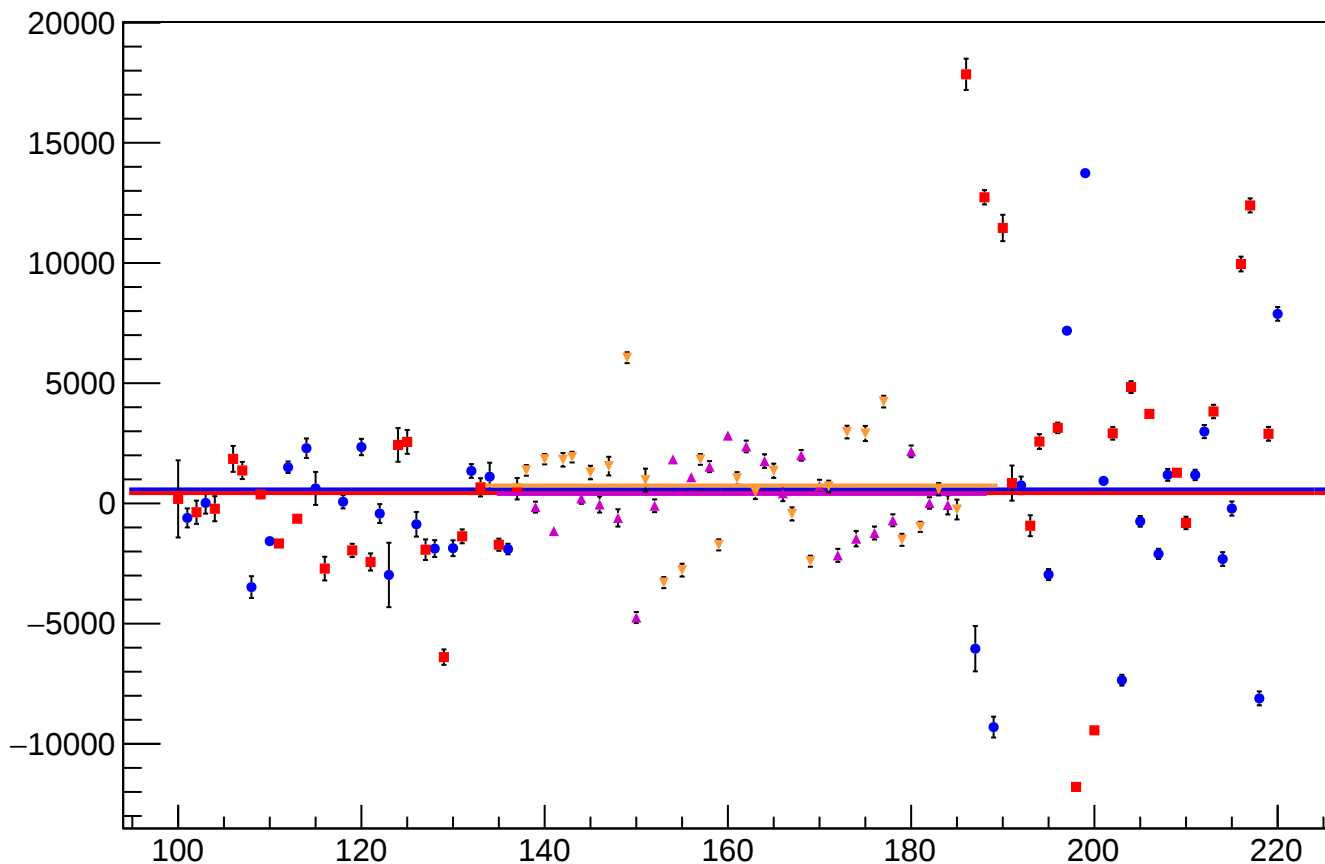
Right: 229.741+/-0.032 χ^2/NDF : 23840498.5/70

In: 216.163+/-0.029 χ^2/NDF : 13464091.9/56

Out: 221.255+/-0.028 χ^2/NDF : 12510713.8/61

All: 218.753+/-0.020 χ^2/NDF : 25990753.8/13

asym_bpm0l07WS_mean vs Slug, Sign Corrected



Right In: 581.783+/-48.910 χ^2/NDF : 10201.2/33

Left Out: 746.405+/-51.592 χ^2/NDF :1942.1/24

Right Out: 430.657+/-48.407 χ^2/NDF : 13473.0/36

Left In: 394.379+/-50.311 χ^2/NDF :1236.4/22

Left: 565.969+/-36.020 χ^2/NDF : 3202.4/47

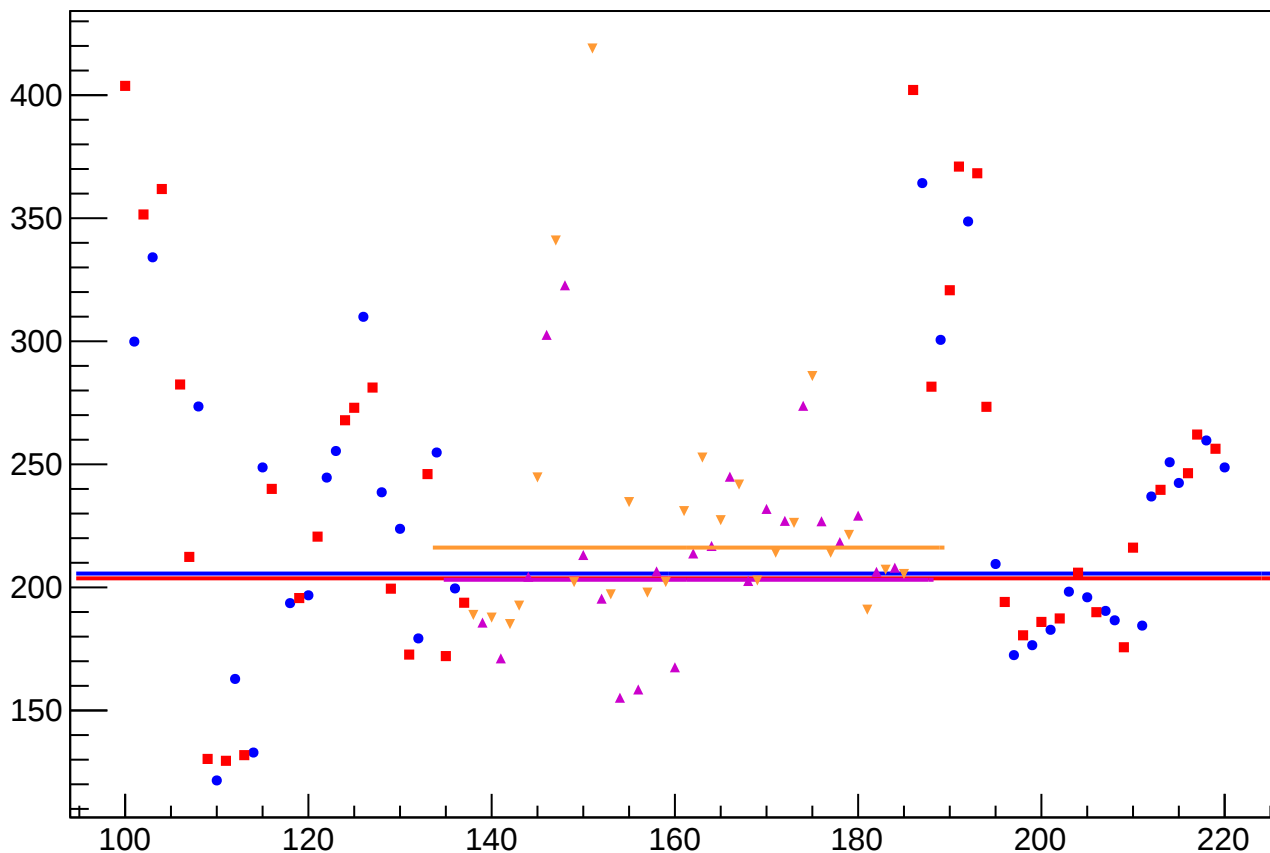
Right: 505.439+/-34.406 χ^2/NDF : 23679.1/70

In: 490.726+/-35.070 χ^2/NDF :11444.7/56

Out: 578.487+/-35.301 χ^2/NDF :15435.1/61

All: 534.318+/-24.879 χ^2/NDF : 26882.9/118

asym_bpm0l07WS_rms vs Slug, Sign Corrected



Right In: 205.623+/-0.035 χ^2/NDF : 1798327.3/33

Left Out: 216.178+/-0.036 χ^2/NDF : 946050.8/24

Right Out: 203.676+/-0.034 χ^2/NDF : 2718964.8/36

Left In: 203.101+/-0.036 χ^2/NDF : 1038013.0/22

Left: 209.475+/-0.025 χ^2/NDF : 2049926.5/47

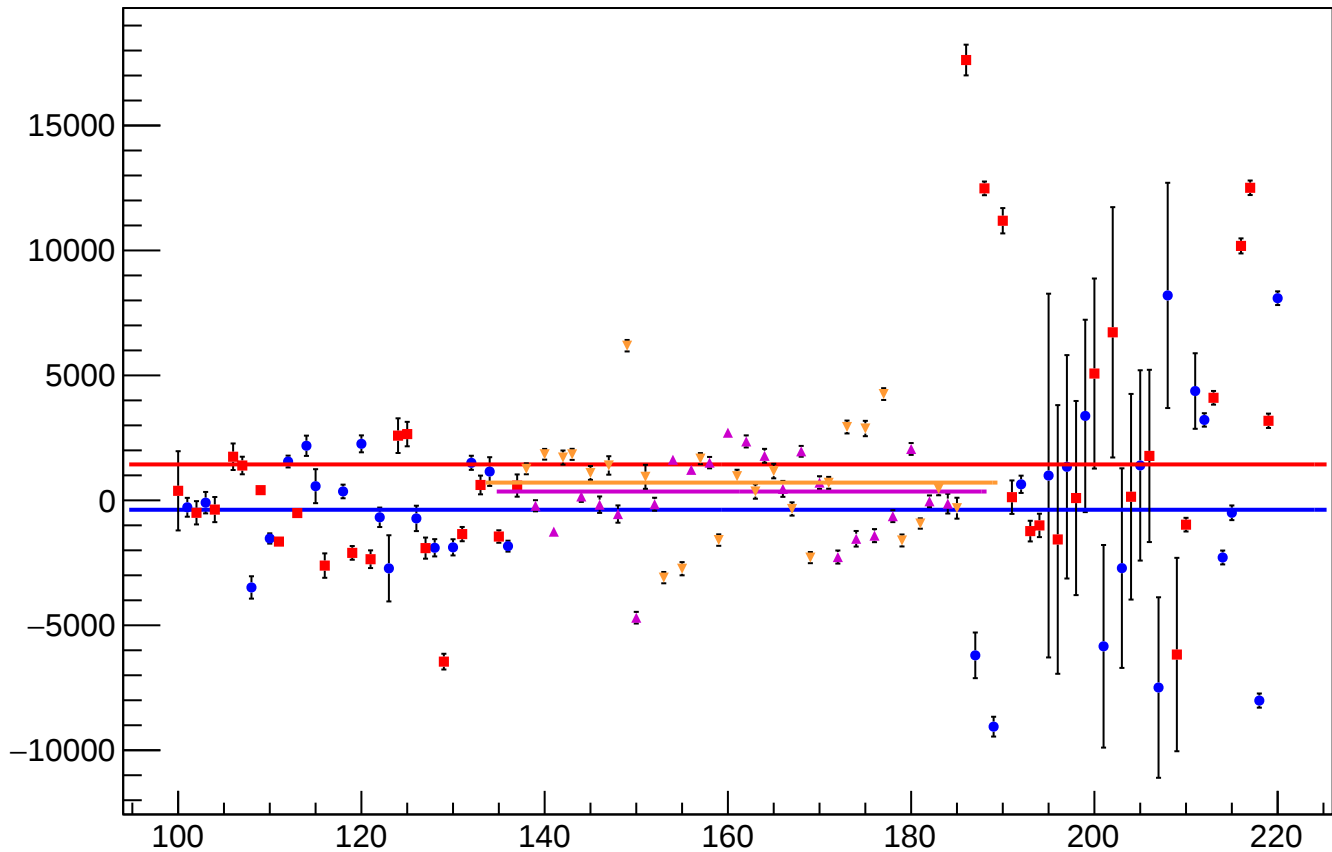
Right: 204.640+/-0.024 χ^2/NDF : 4518894.2/70

In: 204.398+/-0.025 χ^2/NDF : 2838925.5/56

Out: 209.529+/-0.025 χ^2/NDF : 3727473.9/61

All: 206.947+/-0.018 χ^2/NDF : 6587668.0/118

asym_bpm0l08WS_mean vs Slug, Sign Corrected



Right In: -376.766 ± 65.114 $\chi^2/\text{NDF}: 2854.1/33$

Left Out: 710.238 ± 50.750 $\chi^2/\text{NDF}: 1932.3/24$

Right Out: 1437.629 ± 59.367 $\chi^2/\text{NDF}: 6953.8/36$

Left In: 352.432 ± 49.316 $\chi^2/\text{NDF}: 1233.1/22$

Left: 526.207 ± 35.368 $\chi^2/\text{NDF}: 3190.9/47$

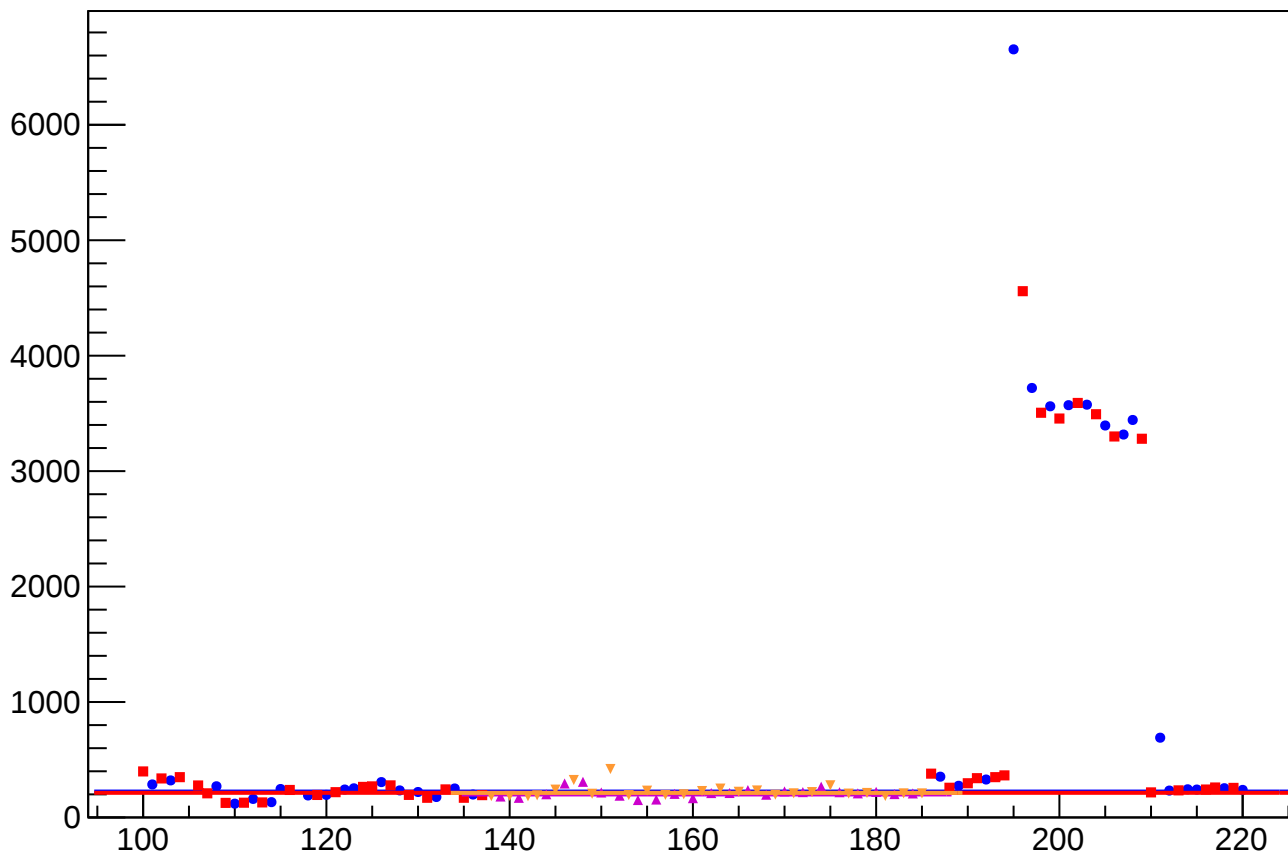
Right: 614.018 ± 43.870 $\chi^2/\text{NDF}: 10231.9/70$

In: 86.622 ± 39.313 $\chi^2/\text{NDF}: 4166.8/56$

Out: 1017.361 ± 38.576 $\chi^2/\text{NDF}: 8972.9/61$

All: 560.797 ± 27.534 $\chi^2/\text{NDF}: 13425.2/118$

asym_bpm0l08WS_rms vs Slug, Sign Corrected



Right In: 224.429+/-0.046 χ^2/NDF : 12560442.2/33

Left Out: 212.718+/-0.036 χ^2/NDF : 916225.9/24

Right Out: 213.450+/-0.042 χ^2/NDF : 11857655.0/36

Left In: 199.142+/-0.035 χ^2/NDF : 985932.4/22

Left: 205.736+/-0.025 χ^2/NDF : 1975772.3/47

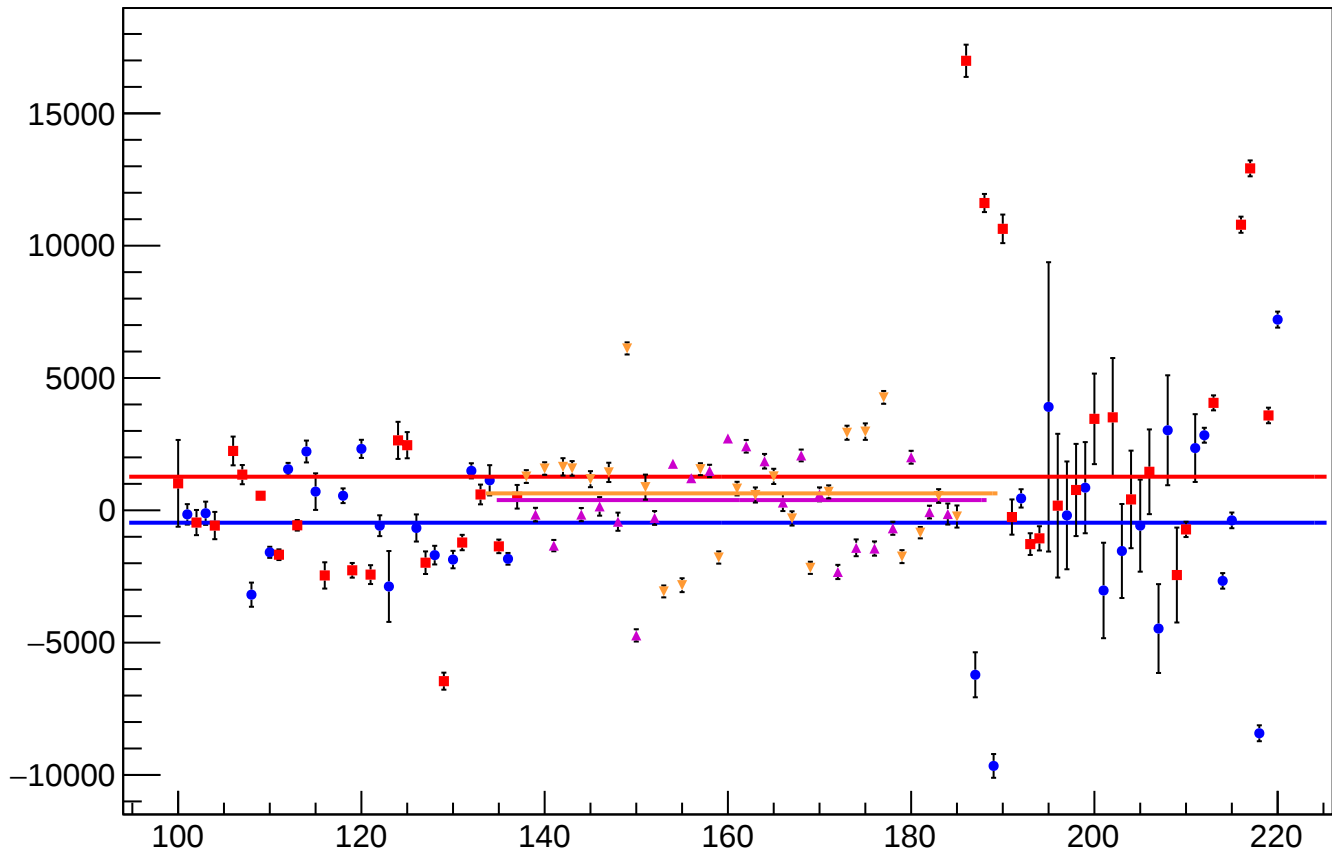
Right: 218.434+/-0.031 χ^2/NDF : 24449145.2/70

In: 208.360+/-0.028 χ^2/NDF : 13738052.4/56

Out: 213.027+/-0.027 χ^2/NDF : 12774056.5/61

All: 210.738+/-0.019 χ^2/NDF : 26526472.6/13

asym_bpm0l09WS_mean vs Slug, Sign Corrected



Right In: -468.577 ± 66.647 $\chi^2/\text{NDF}: 2413.3/33$

Left Out: 639.995 ± 52.708 $\chi^2/\text{NDF}: 1859.2/24$

Right Out: 1270.029 ± 60.947 $\chi^2/\text{NDF}: 6133.6/36$

Left In: 386.248 ± 50.994 $\chi^2/\text{NDF}: 1238.0/22$

Left: 508.926 ± 36.649 $\chi^2/\text{NDF}: 3109.2/47$

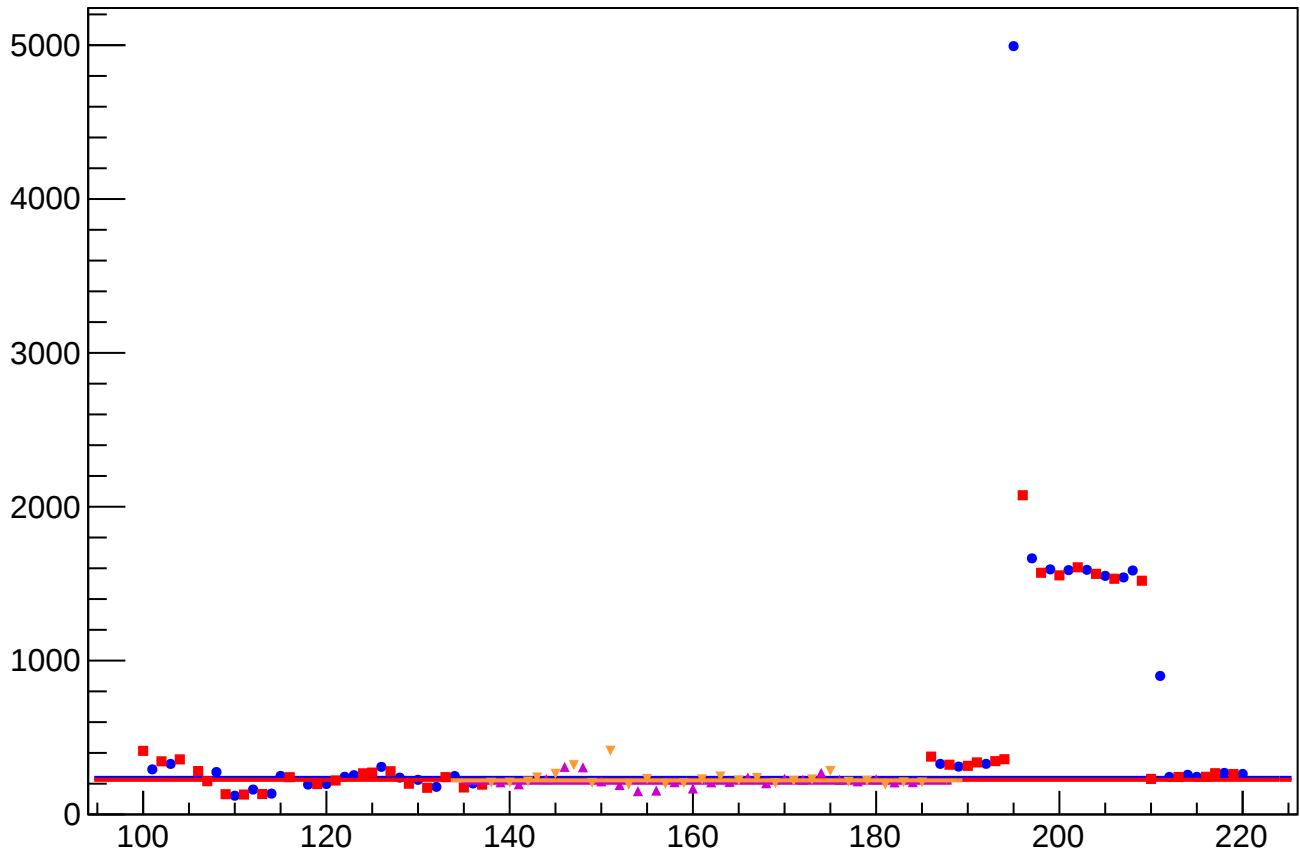
Right: 478.236 ± 44.977 $\chi^2/\text{NDF}: 8917.4/70$

In: 70.601 ± 40.499 $\chi^2/\text{NDF}: 3755.1/56$

Out: 909.580 ± 39.868 $\chi^2/\text{NDF}: 8053.9/61$

All: 496.680 ± 28.411 $\chi^2/\text{NDF}: 12026.9/118$

asym_bpm0l09WS_rms vs Slug, Sign Corrected



Right In: 237.978 $\pm$ 0.047 χ^2 /NDF: 11335649.5/33

Left Out: 221.398 $\pm$ 0.037 χ^2 /NDF: 777833.8/24

Right Out: 224.879 $\pm$ 0.043 χ^2 /NDF: 10268960.9/36

Left In: 205.803 $\pm$ 0.036 χ^2 /NDF: 994903.5/22

Left: 213.343 $\pm$ 0.026 χ^2 /NDF: 1863169.5/47

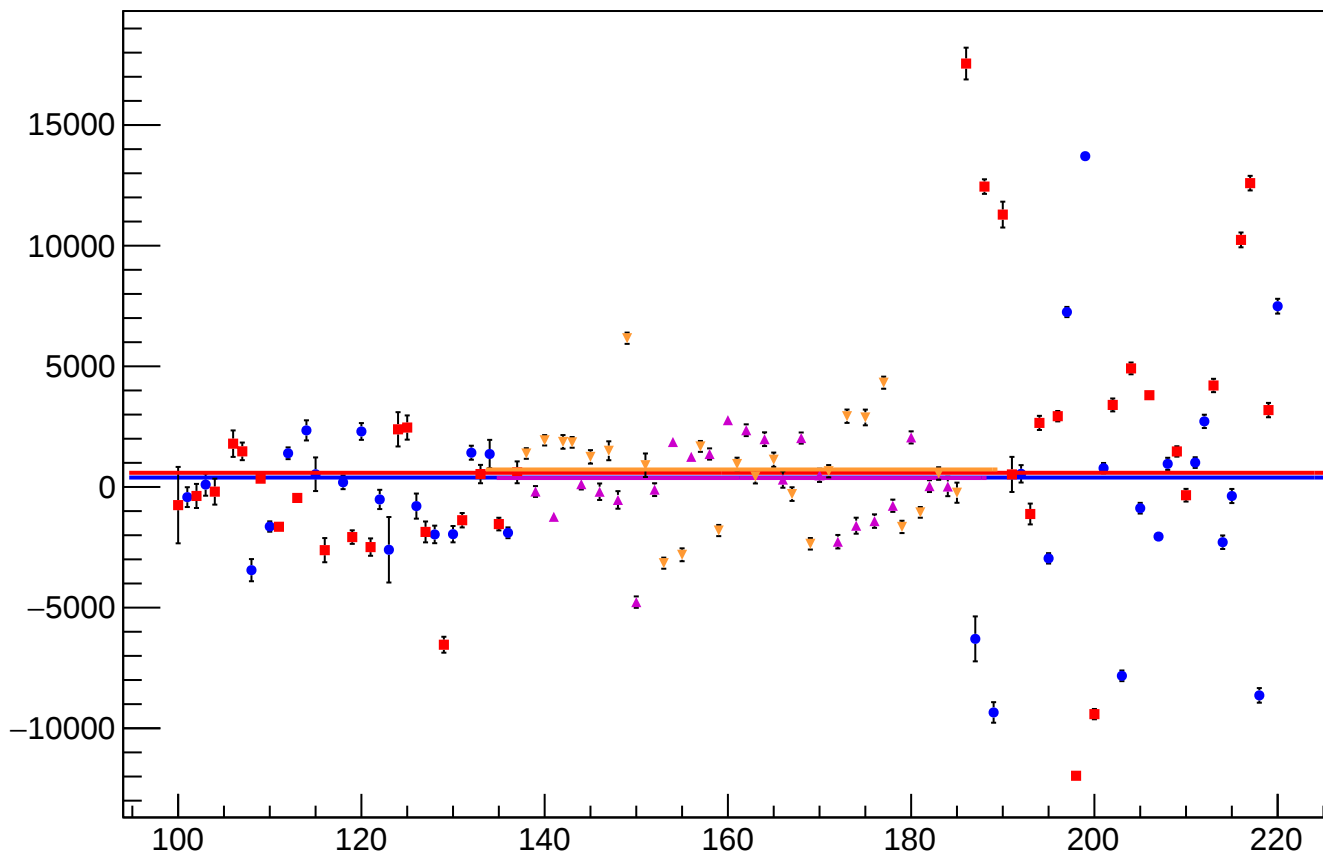
Right: 230.844 $\pm$ 0.032 χ^2 /NDF: 21646685.2/70

In: 217.684 $\pm$ 0.029 χ^2 /NDF: 12624552.2/56

Out: 222.887 $\pm$ 0.028 χ^2 /NDF: 11050526.2/61

All: 220.326 $\pm$ 0.020 χ^2 /NDF: 23691846.0/13

asym_bpm0l10WS_mean vs Slug, Sign Corrected



Right In: 390.799+/-49.469 χ^2/NDF : 10043.3/33

Left Out: 725.250+/-52.307 χ^2/NDF :1883.1/24

Right Out: 587.790+/-49.148 χ^2/NDF : 13114.1/36

Left In: 370.408+/-50.884 χ^2/NDF :1223.2/22

Left: 542.938+/-36.473 χ^2/NDF : 3129.9/47

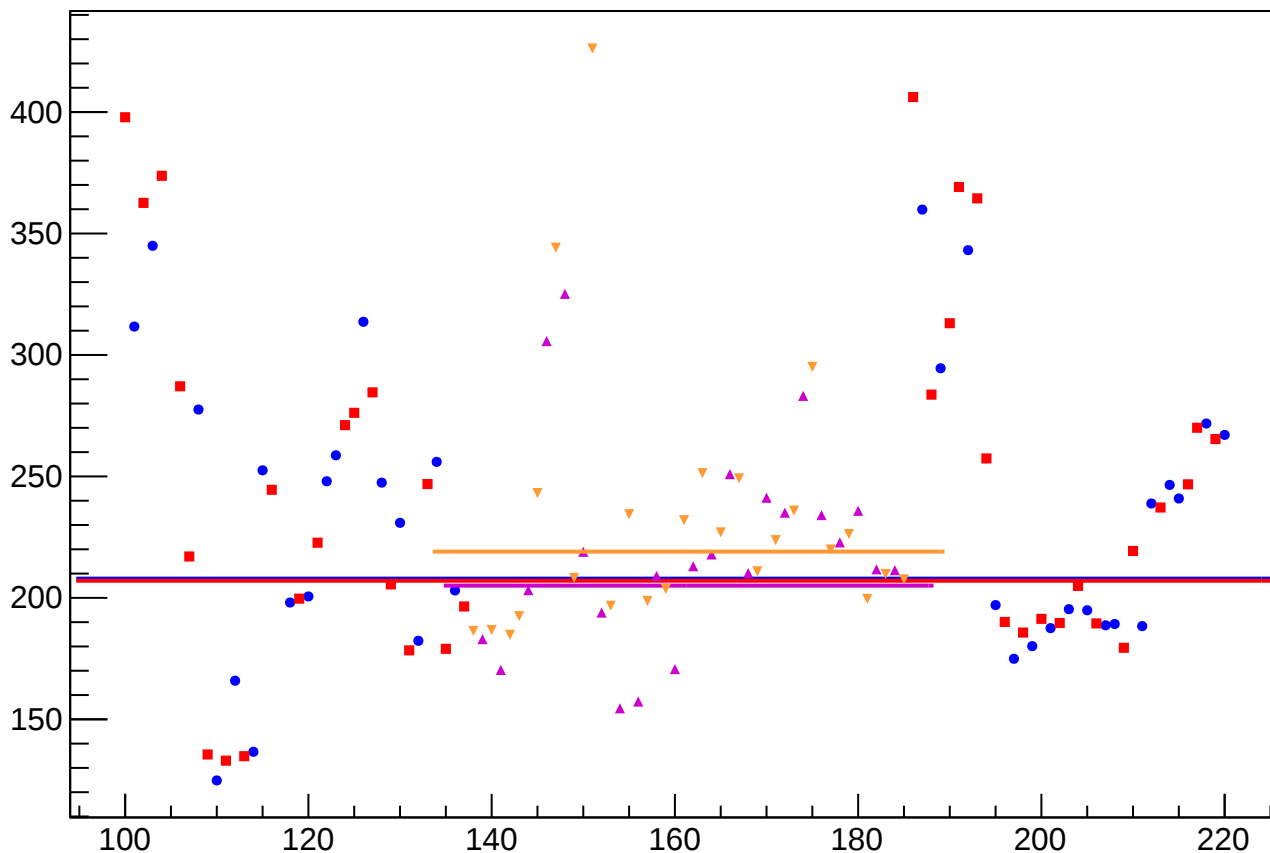
Right: 489.935+/-34.866 χ^2/NDF : 23165.4/70

In: 380.891+/-35.470 χ^2/NDF :11266.5/56

Out: 652.244+/-35.818 χ^2/NDF :15000.9/61

All: 515.243+/-25.203 χ^2/NDF : 26296.4/118

asym_bpm0l10WS_rms vs Slug, Sign Corrected



Right In: 207.914 ± 0.035 $\chi^2/\text{NDF}: 1785240.7/33$

Left Out: 219.049 ± 0.037 $\chi^2/\text{NDF}: 975564.4/24$

Right Out: 207.061 ± 0.035 $\chi^2/\text{NDF}: 2571435.5/36$

Left In: 205.046 ± 0.036 $\chi^2/\text{NDF}: 1144197.1/22$

Left: 211.855 ± 0.026 $\chi^2/\text{NDF}: 2193394.9/47$

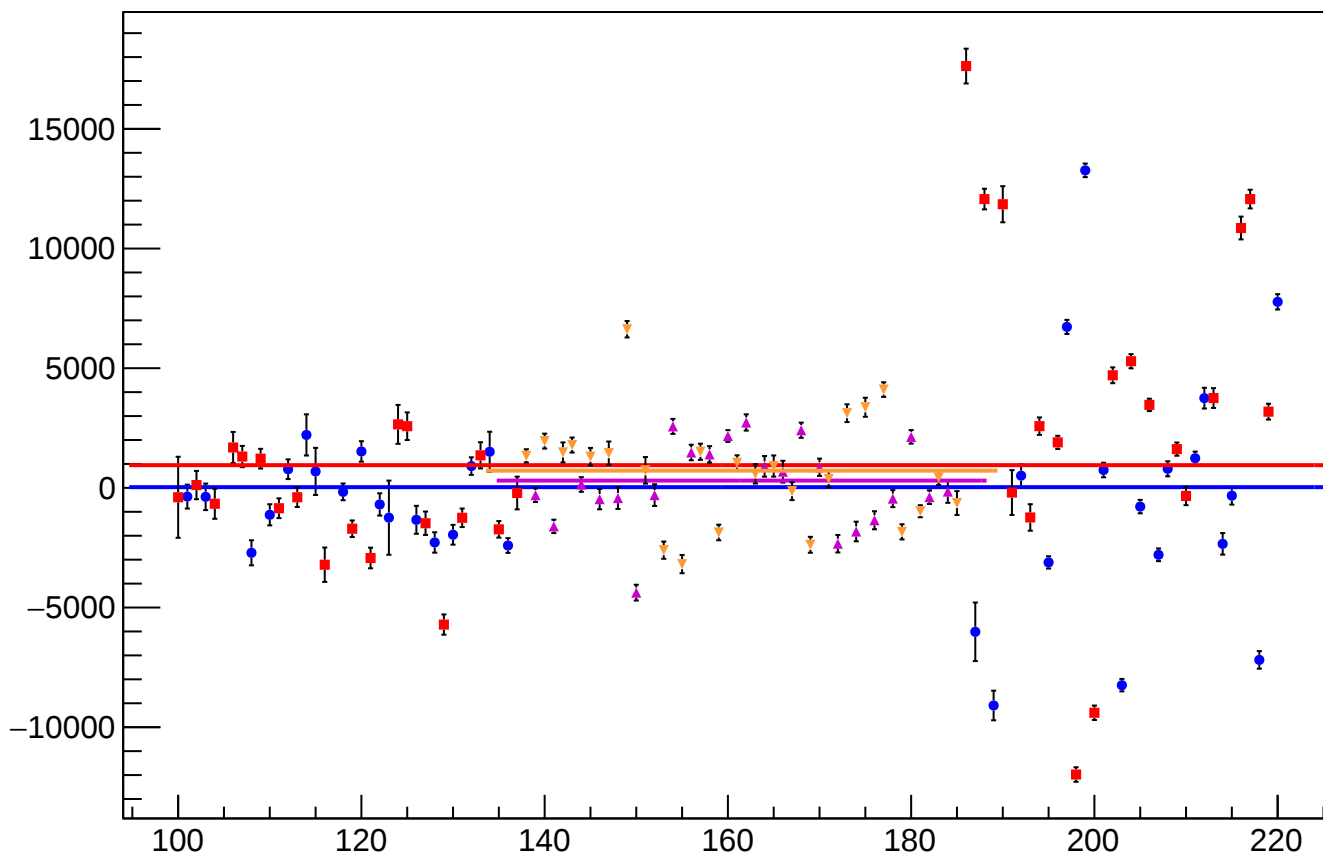
Right: 207.485 ± 0.025 $\chi^2/\text{NDF}: 4356975.7/70$

In: 206.521 ± 0.025 $\chi^2/\text{NDF}: 2932703.6/56$

Out: 212.682 ± 0.025 $\chi^2/\text{NDF}: 3602789.9/61$

All: 209.571 ± 0.018 $\chi^2/\text{NDF}: 6565370.6/118$

asym_bpm0r03WS_mean vs Slug, Sign Corrected



Right In: 29.777+/-65.430 χ^2/NDF : 5501.0/33

Left Out: 718.705+/-69.601 χ^2/NDF : 1018.5/24

Right Out: 948.954+/-67.622 χ^2/NDF : 6811.8/36

Left In: 304.161+/-70.958 χ^2/NDF : 643.5/22

Left: 515.435+/-49.688 χ^2/NDF : 1679.4/47

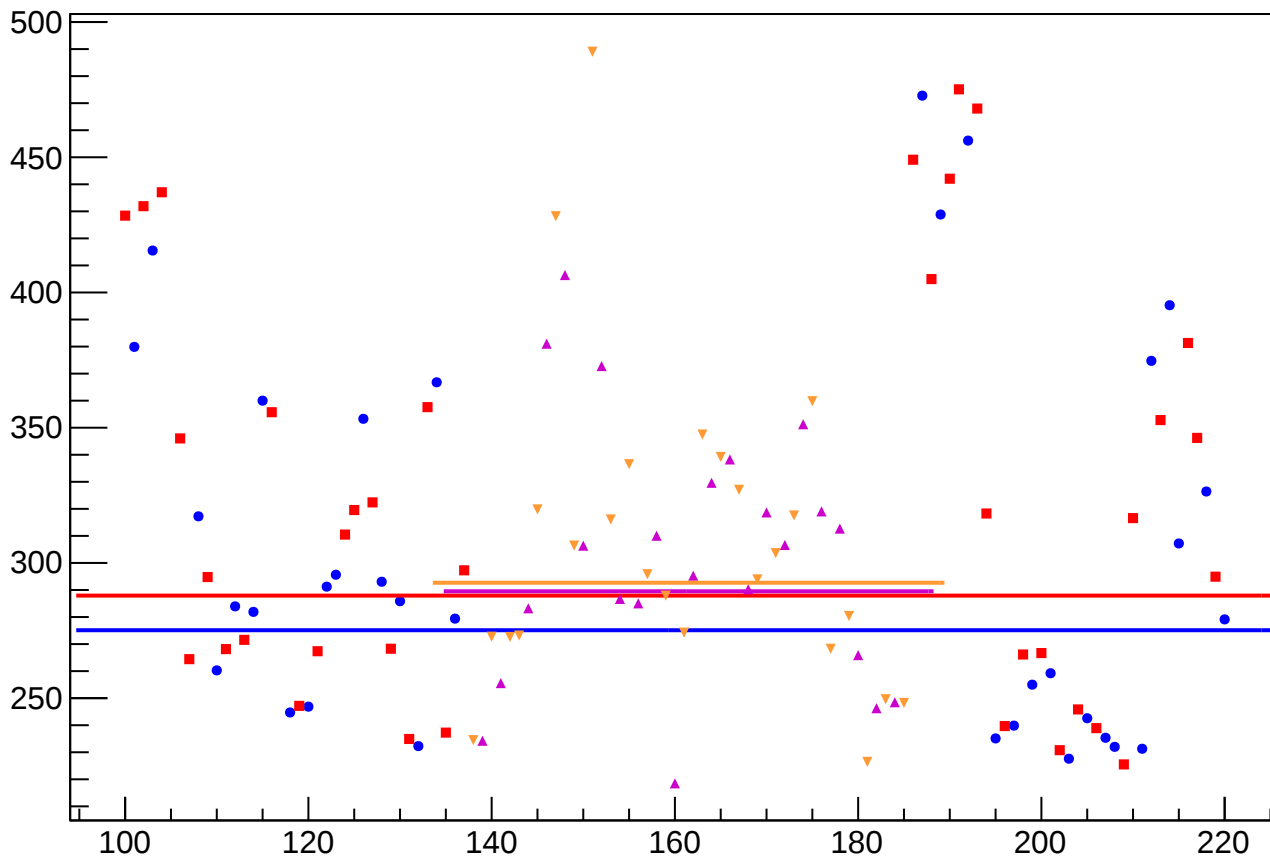
Right: 474.229+/-47.022 χ^2/NDF : 12408.2/70

In: 155.867+/-48.102 χ^2/NDF : 6152.6/56

Out: 837.149+/-48.500 χ^2/NDF : 7835.9/61

All: 493.697+/-34.153 χ^2/NDF : 14088.0/118

asym_bpm0r03WS_rms vs Slug, Sign Corrected



Right In: 275.121+/-0.046 χ^2/NDF : 1448237.1/33

Left Out: 292.686+/-0.049 χ^2/NDF : 925193.6/24

Right Out: 287.928+/-0.048 χ^2/NDF : 1633570.4/36

Left In: 289.522+/-0.050 χ^2/NDF : 777901.0/22

Left: 291.134+/-0.035 χ^2/NDF : 1705121.5/47

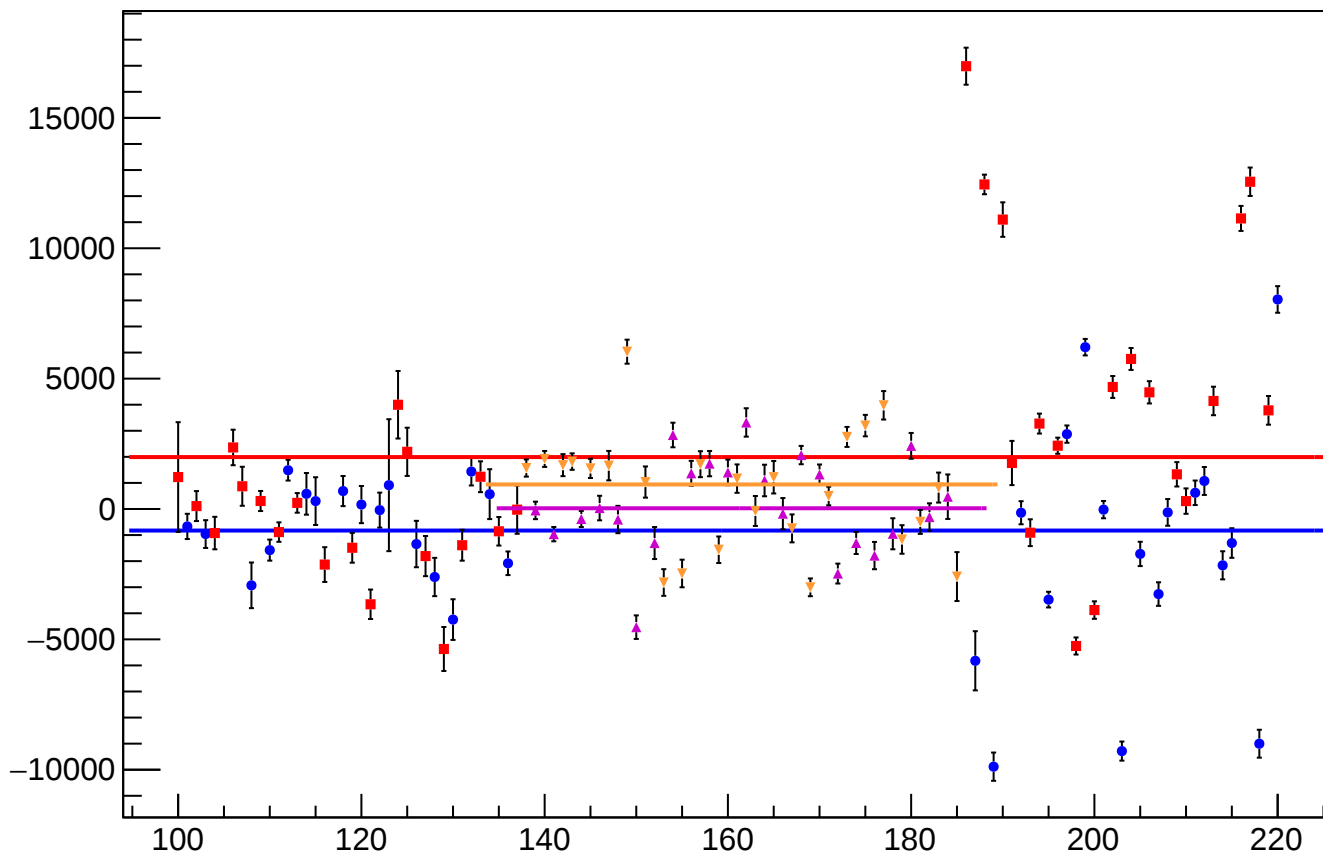
Right: 281.314+/-0.033 χ^2/NDF : 3118861.1/70

In: 281.739+/-0.034 χ^2/NDF : 2270660.1/56

Out: 290.238+/-0.034 χ^2/NDF : 2563571.1/61

All: 285.953+/-0.024 χ^2/NDF : 4865199.3/118

asym_bpm0r05WS_mean vs Slug, Sign Corrected



Right In: -826.907 ± 85.412 $\chi^2/\text{NDF}: 2246.0/33$

Left Out: 941.598 ± 89.119 $\chi^2/\text{NDF}: 544.6/24$

Right Out: 1991.200 ± 82.690 $\chi^2/\text{NDF}: 3664.0/36$

Left In: 27.763 ± 92.331 $\chi^2/\text{NDF}: 362.5/22$

Left: 500.853 ± 64.122 $\chi^2/\text{NDF}: 957.8/47$

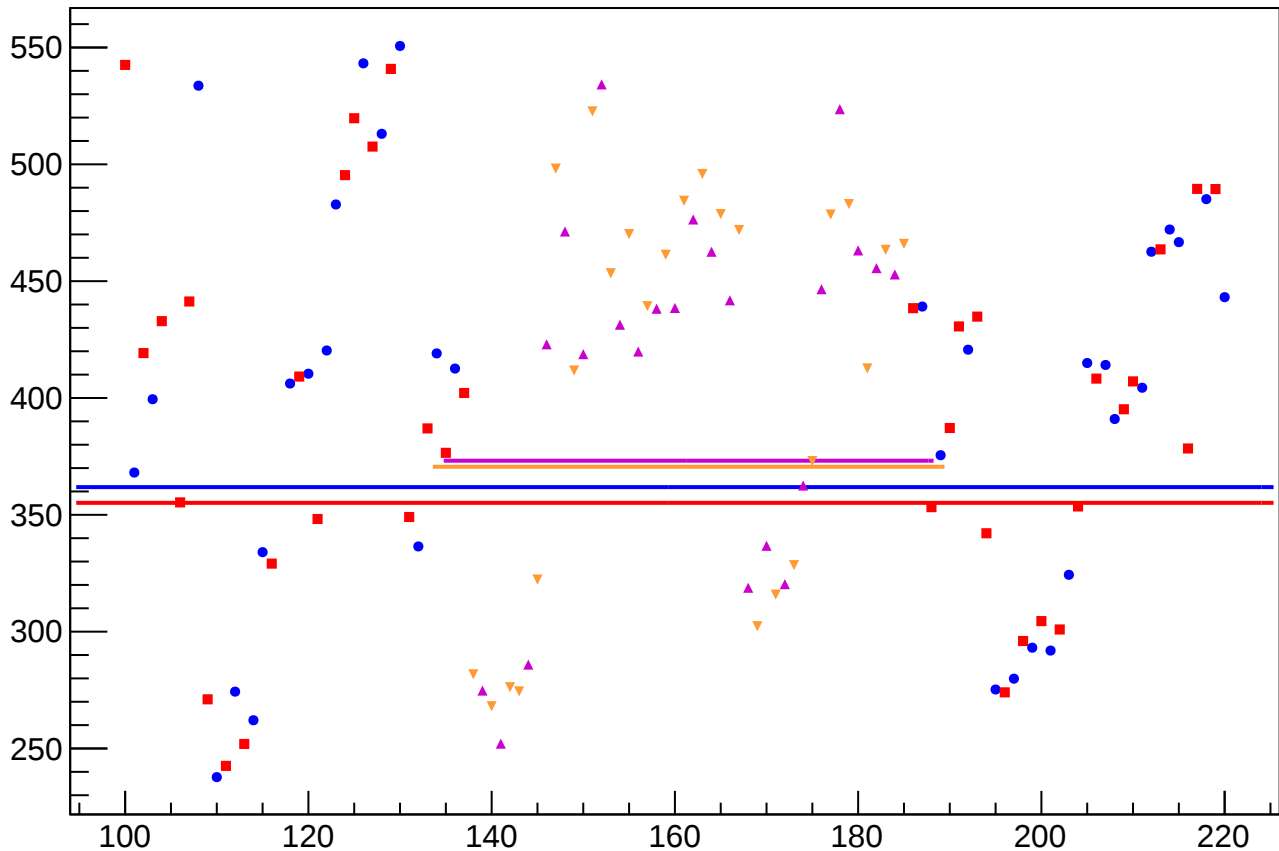
Right: 627.767 ± 59.410 $\chi^2/\text{NDF}: 6471.9/70$

In: -432.790 ± 62.699 $\chi^2/\text{NDF}: 2654.7/56$

Out: 1505.617 ± 60.616 $\chi^2/\text{NDF}: 4283.1/61$

All: 569.144 ± 43.580 $\chi^2/\text{NDF}: 7431.9/118$

asym_bpm0r05WS_rms vs Slug, Sign Corrected



Right In: 361.859 $\pm$ 0.060 χ^2/NDF : 1762365.1/33

Left Out: 370.580 $\pm$ 0.063 χ^2/NDF : 1878118.9/24

Right Out: 355.128 $\pm$ 0.058 χ^2/NDF : 1595935.0/36

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

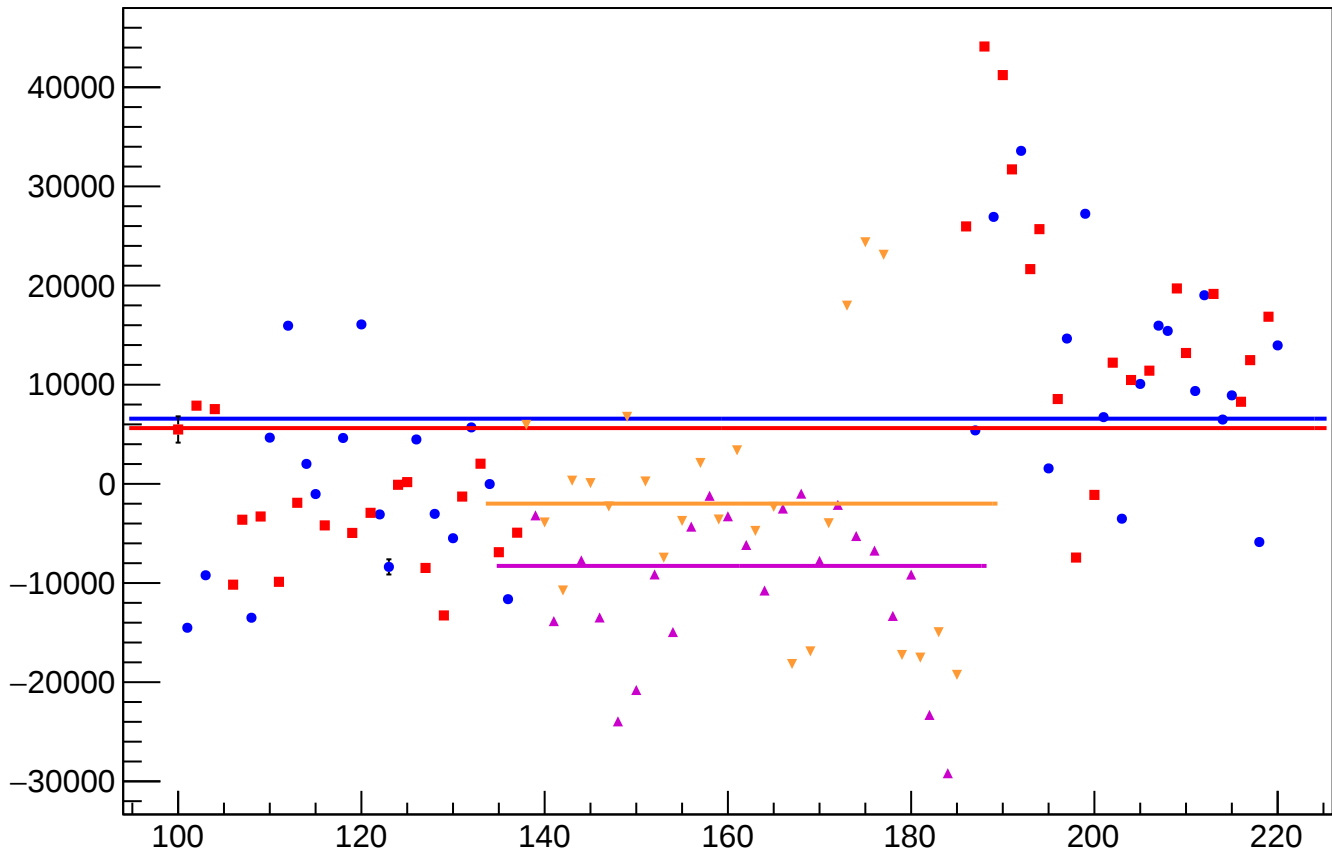
Right: 358.385 $\pm$ 0.042 χ^2/NDF : 3364711.8/70

In: 367.071 $\pm$ 0.044 χ^2/NDF : 3414755.6/56

Out: 362.277 $\pm$ 0.043 χ^2/NDF : 3506360.7/61

All: 364.593 $\pm$ 0.031 χ^2/NDF : 6927160.5/118

asym_bpm0i02WS_mean vs Slug, Sign Corrected



Right In: 6574.996 ± 38.727 $\chi^2/\text{NDF}: 96925.9/33$

Left Out: -1991.788 ± 42.427 $\chi^2/\text{NDF}: 63766.6/24$

Right Out: 5624.144 ± 37.551 $\chi^2/\text{NDF}: 146871.1/36$

Left In: -8273.228 ± 44.301 $\chi^2/\text{NDF}: 22870.2/22$

Left: -4996.810 ± 30.641 $\chi^2/\text{NDF}: 97123.2/47$

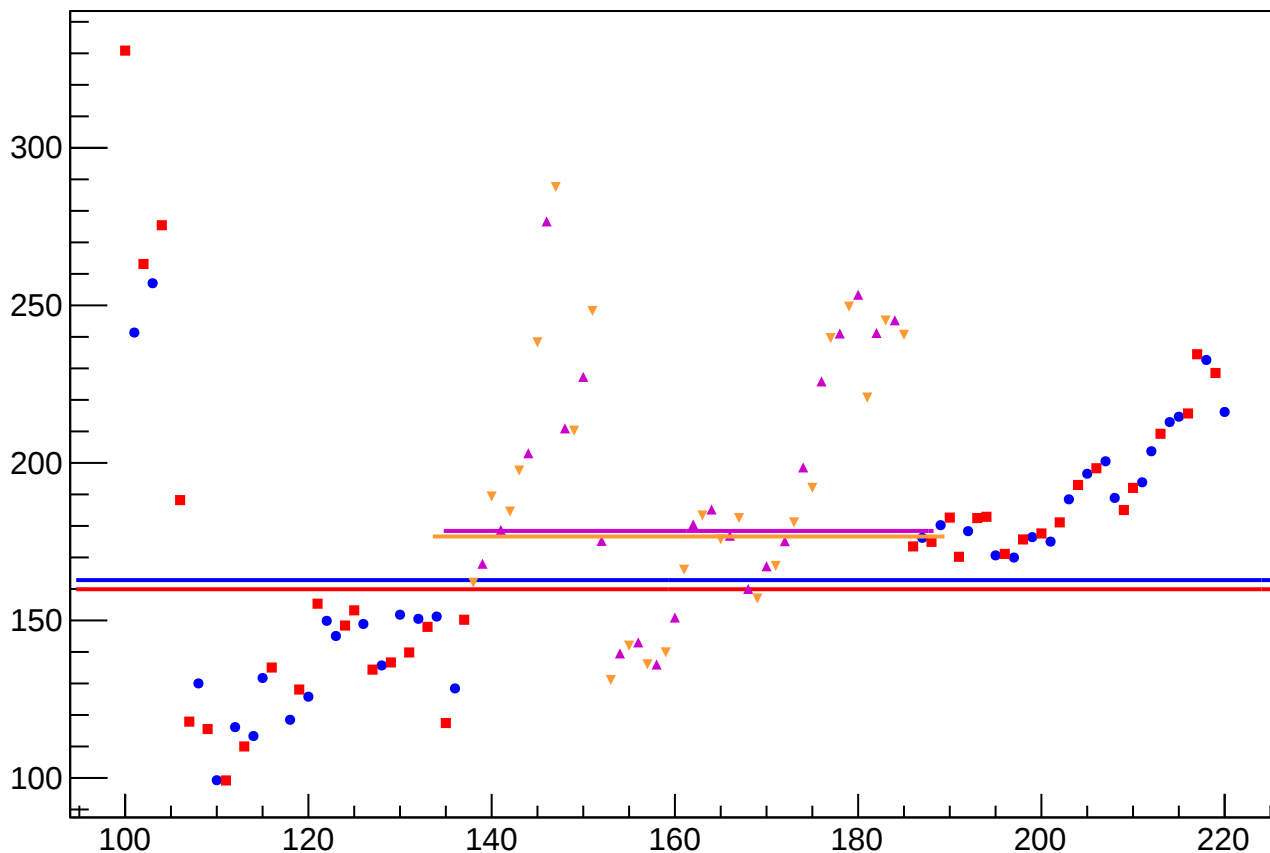
Right: 6084.925 ± 26.959 $\chi^2/\text{NDF}: 244107.7/70$

In: 143.352 ± 29.157 $\chi^2/\text{NDF}: 183472.7/56$

Out: 2278.712 ± 28.119 $\chi^2/\text{NDF}: 228706.2/61$

All: 1249.698 ± 20.240 $\chi^2/\text{NDF}: 414957.8/11$

asym_bpm0i02WS_rms vs Slug, Sign Corrected



Right In: 162.807 ± 0.027 χ^2/NDF : 1872267.7/33

Left Out: 176.641 ± 0.030 χ^2/NDF : 1551048.8/24

Right Out: 159.906 ± 0.027 χ^2/NDF : 2145050.8/36

Left In: 178.413 ± 0.031 χ^2/NDF : 1293736.2/22

Left: 177.489 ± 0.022 χ^2/NDF : 2846455.0/47

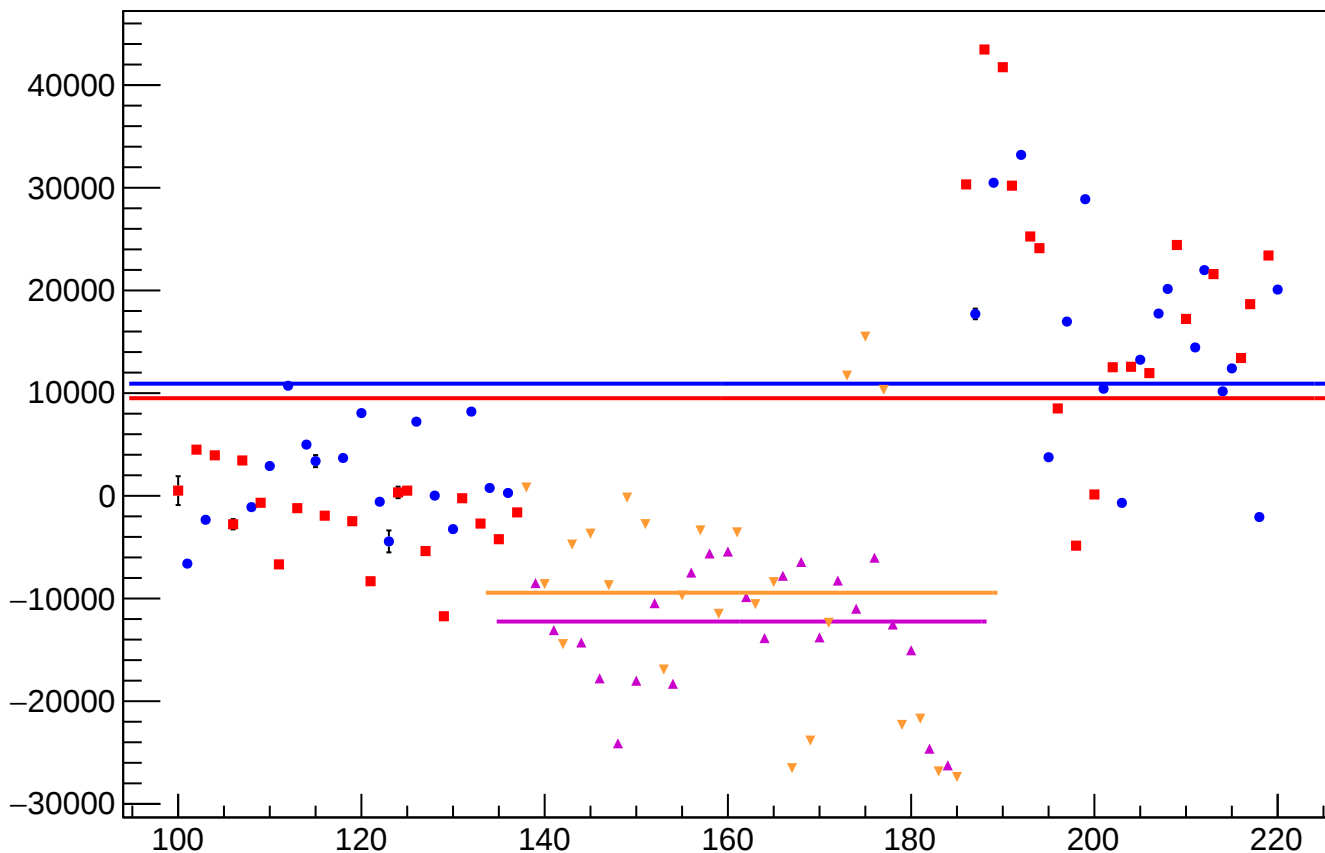
Right: 161.312 ± 0.019 χ^2/NDF : 4023102.6/70

In: 169.567 ± 0.021 χ^2/NDF : 3306697.0/56

Out: 167.257 ± 0.020 χ^2/NDF : 3870582.1/61

All: 168.370 ± 0.014 χ^2/NDF : 7183782.9/118

asym_bpm0i02aWS_mean vs Slug, Sign Corrected



Right In: 10921.947+/-42.381

χ^2/NDF : 58964.7/33

Left: -10889.638+/-31.621

χ^2/NDF : 80800.7/47

Left Out: -9437.408+/-45.534

χ^2/NDF : 62220.4/24

Right: 10195.390+/-29.572

χ^2/NDF : 179887.0/70

Right Out: 9506.011+/-41.283

χ^2/NDF : 120349.6/36

In: -240.879+/-30.506

χ^2/NDF : 219539.6/56

Out: 959.746+/-30.584

χ^2/NDF : 277563.7/61

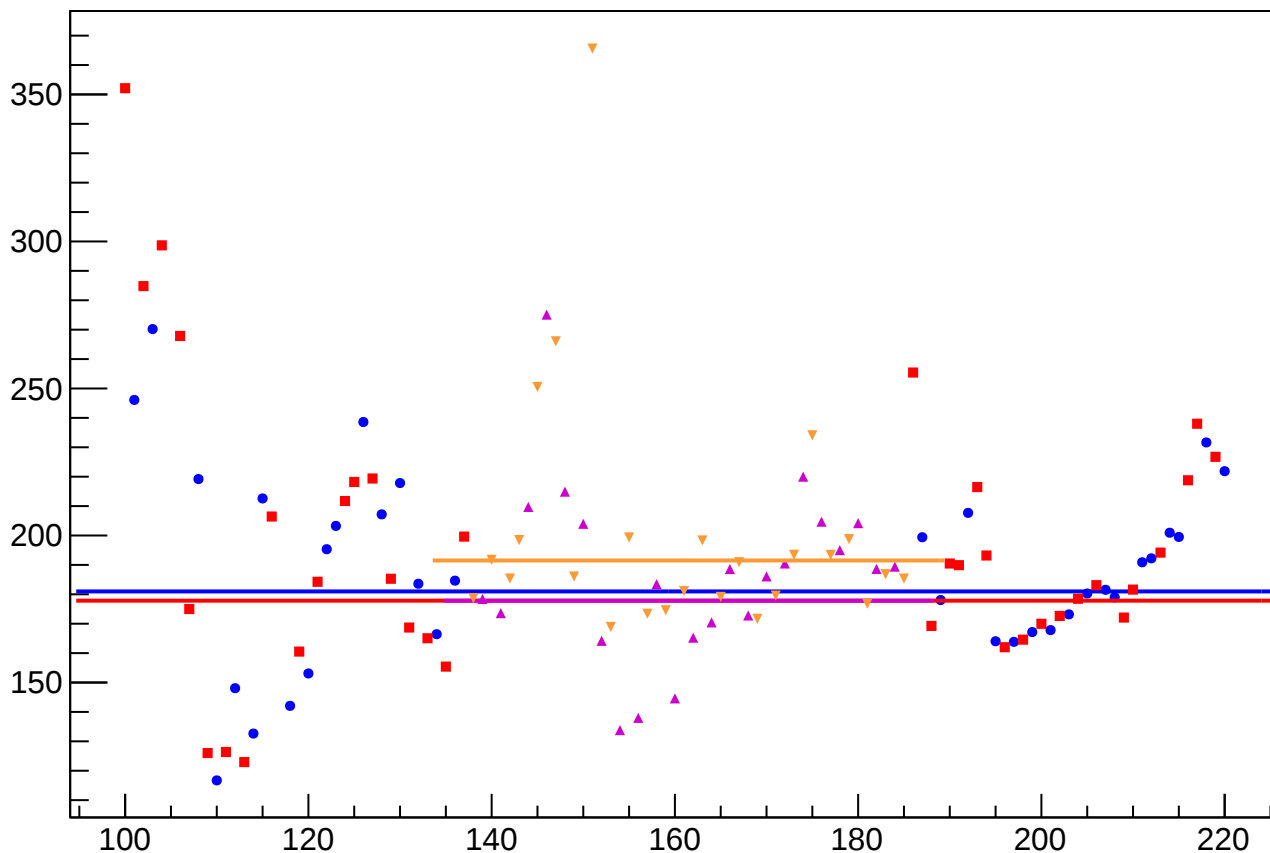
Left In: -12242.226+/-43.944

χ^2/NDF : 16615.8/22

All: 357.892+/-21.599

χ^2/NDF : 497875.8/118

asym_bpm0i02aWS_rms vs Slug, Sign Corrected



Right In: 180.978+/-0.030 χ^2/NDF : 953796.8/33

Left Out: 191.507+/-0.032 χ^2/NDF : 727251.6/24

Right Out: 177.840+/-0.029 χ^2/NDF : 1388827.0/36

Left In: 177.821+/-0.031 χ^2/NDF : 862494.4/22

Left: 184.421+/-0.022 χ^2/NDF : 1683284.8/47

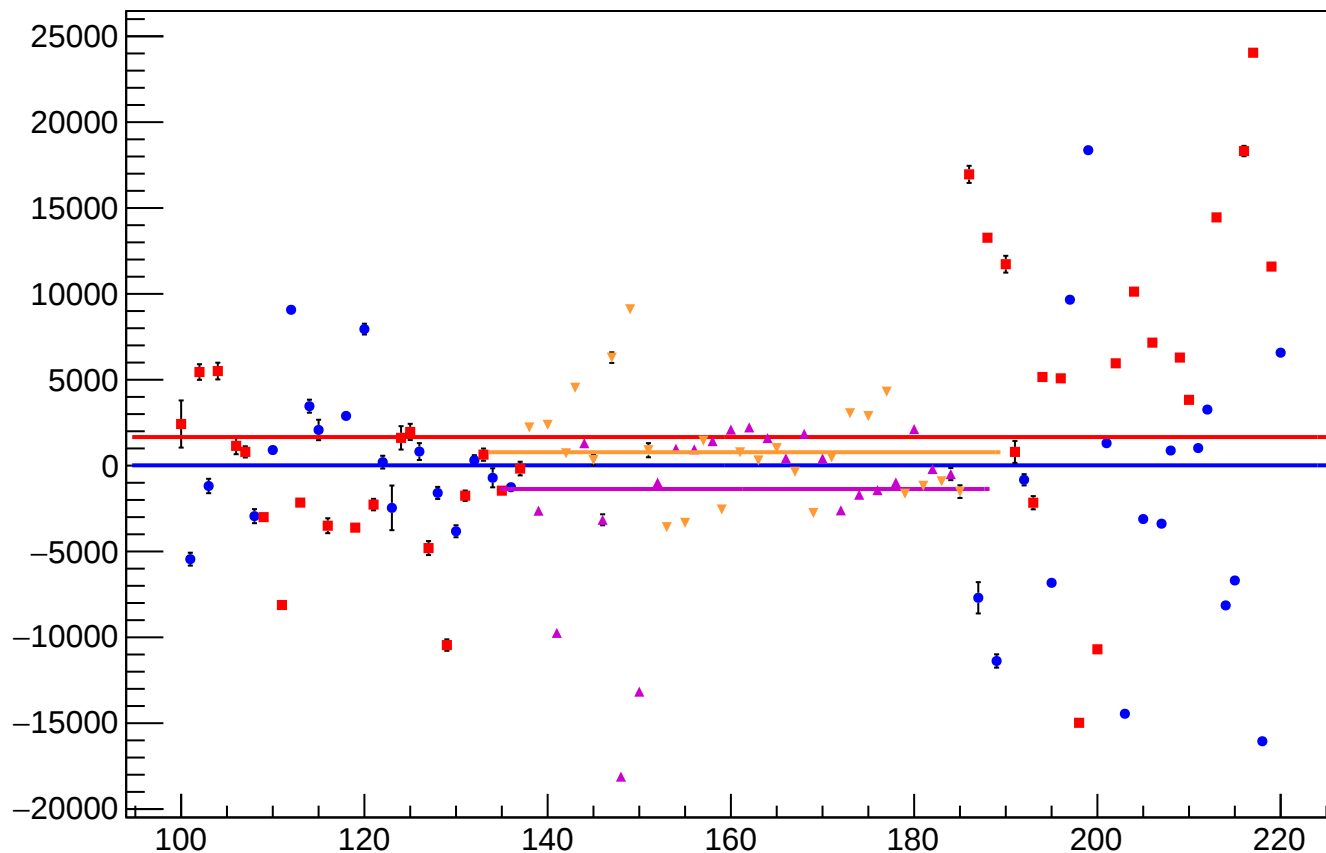
Right: 179.368+/-0.021 χ^2/NDF : 2348250.0/70

In: 179.457+/-0.022 χ^2/NDF : 1821638.8/56

Out: 184.006+/-0.022 χ^2/NDF : 2214960.5/61

All: 181.726+/-0.015 χ^2/NDF : 4058777.3/118

asym_bpm0i05WS_mean vs Slug, Sign Corrected



Right In: 15.878 $\pm$ 47.416 χ^2/NDF : 26067.8/33

Left Out: 779.983 $\pm$ 47.457 χ^2/NDF : 4260.8/24

Right Out: 1663.290 $\pm$ 46.406 χ^2/NDF : 35770.8/36

Left In: -1363.043 $\pm$ 45.807 χ^2/NDF : 11632.9/22

Left: -329.448 $\pm$ 32.958 χ^2/NDF : 16949.3/47

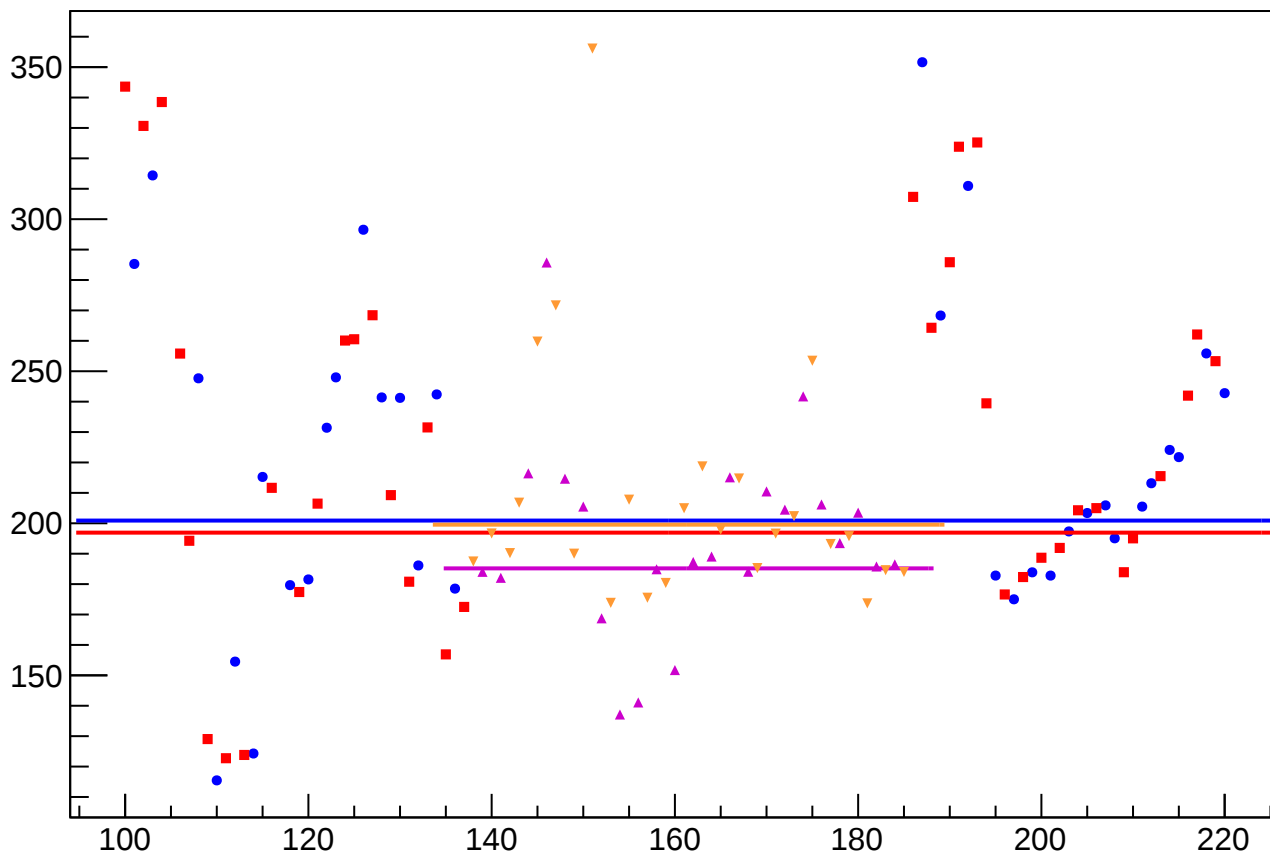
Right: 857.310 $\pm$ 33.165 χ^2/NDF : 62455.1/70

In: -697.374 $\pm$ 32.944 χ^2/NDF : 38138.1/56

Out: 1231.530 $\pm$ 33.179 χ^2/NDF : 40208.6/61

All: 260.219 $\pm$ 23.378 χ^2/NDF : 80048.6/118

asym_bpm0i05WS_rms vs Slug, Sign Corrected



Right In: 200.894 ± 0.034 $\chi^2/\text{NDF}: 1594403.0/33$

Left Out: 199.547 ± 0.034 $\chi^2/\text{NDF}: 729356.3/24$

Right Out: 196.925 ± 0.033 $\chi^2/\text{NDF}: 2402441.1/36$

Left In: 185.171 ± 0.032 $\chi^2/\text{NDF}: 882752.2/22$

Left: 192.104 ± 0.023 $\chi^2/\text{NDF}: 1707122.0/47$

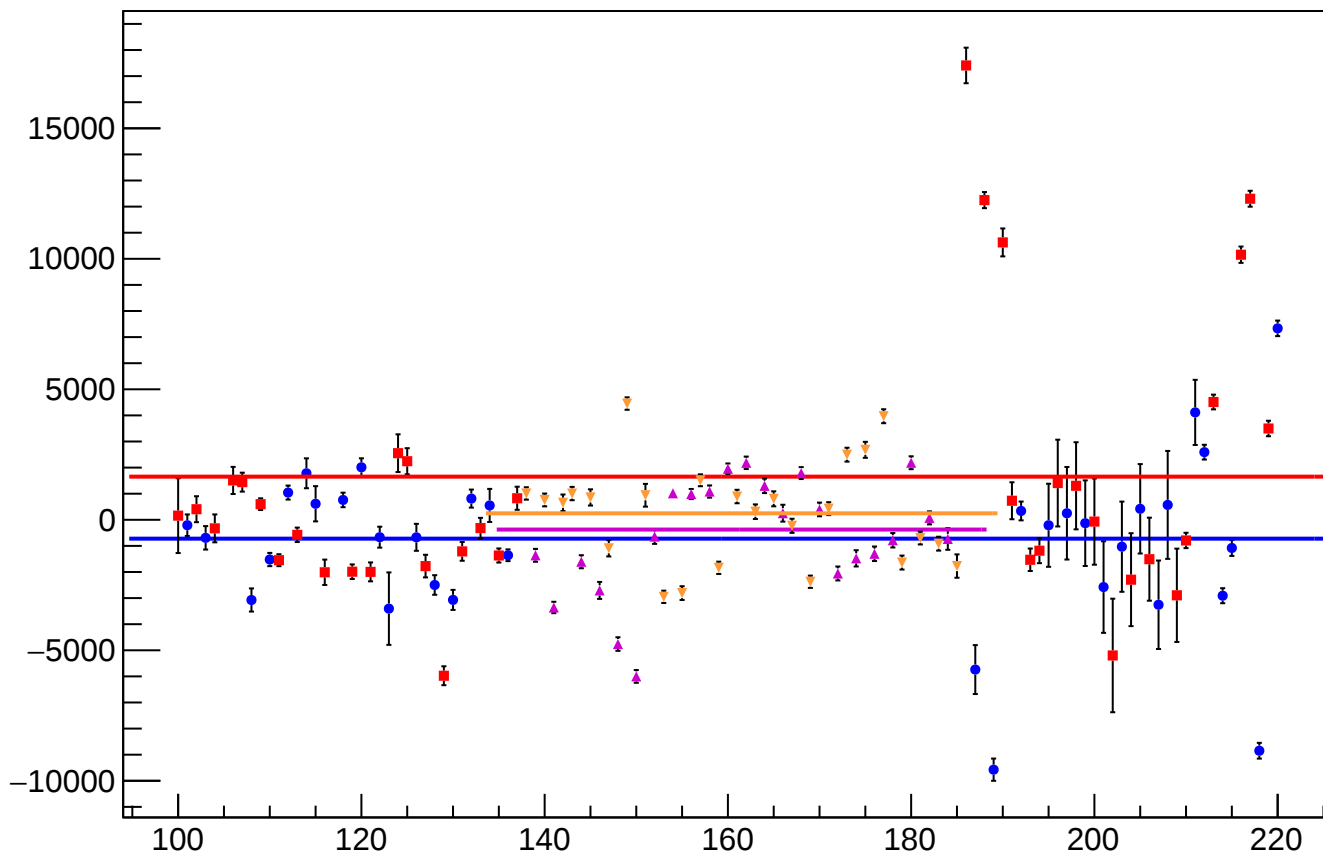
Right: 198.867 ± 0.023 $\chi^2/\text{NDF}: 4004001.3/70$

In: 192.761 ± 0.023 $\chi^2/\text{NDF}: 2590919.6/56$

Out: 198.207 ± 0.023 $\chi^2/\text{NDF}: 3134916.7/61$

All: 195.465 ± 0.017 $\chi^2/\text{NDF}: 5752965.1/118$

asym_bpm0i07WS_mean vs Slug, Sign Corrected



Right In: -722.440 ± 70.348 $\chi^2/\text{NDF}: 2432.6/33$

Left Out: 247.844 ± 53.555 $\chi^2/\text{NDF}: 1355.1/24$

Right Out: 1653.608 ± 65.299 $\chi^2/\text{NDF}: 5640.1/36$

Left In: -374.122 ± 52.049 $\chi^2/\text{NDF}: 1801.0/22$

Left: -72.006 ± 37.325 $\chi^2/\text{NDF}: 3225.5/47$

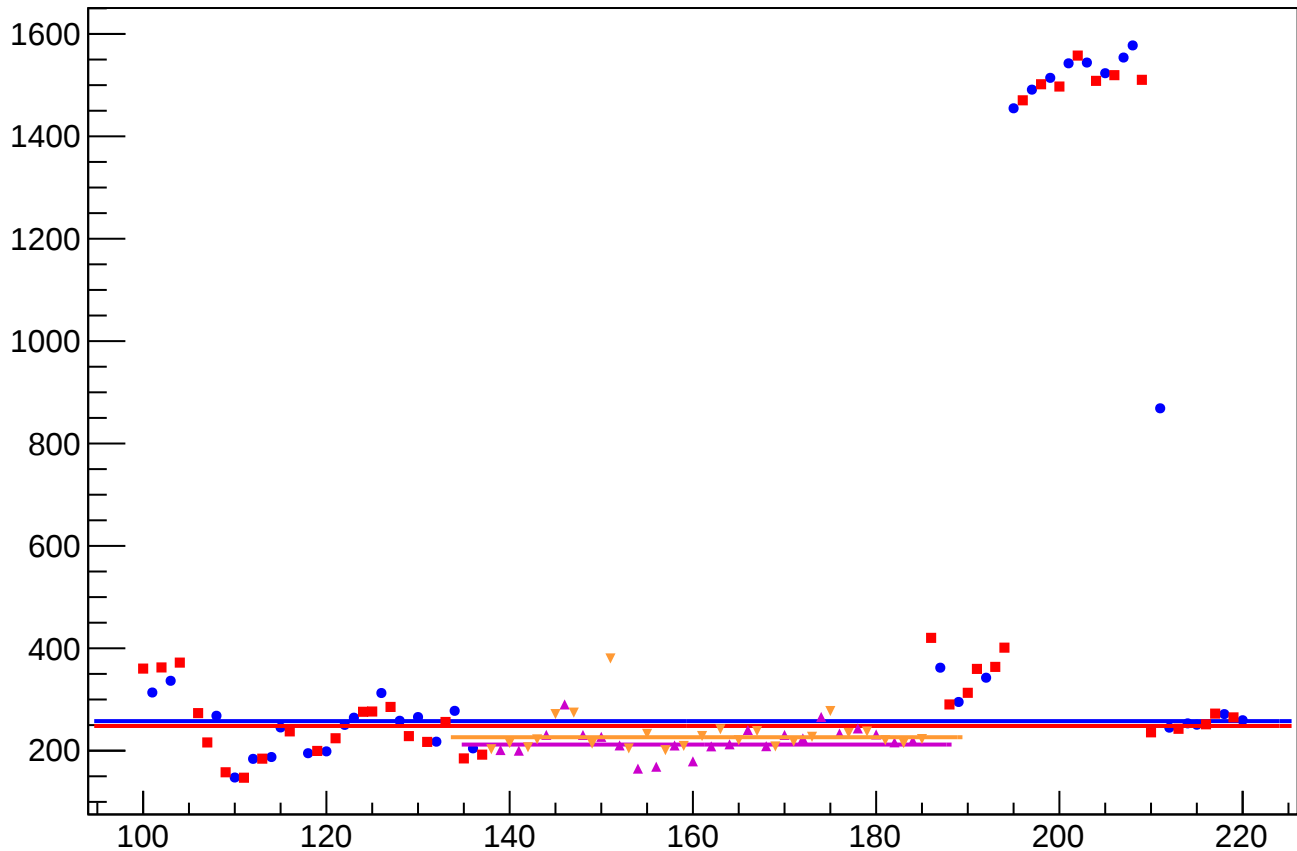
Right: 553.902 ± 47.859 $\chi^2/\text{NDF}: 8685.5/70$

In: -497.345 ± 41.842 $\chi^2/\text{NDF}: 4249.5/56$

Out: 813.167 ± 41.409 $\chi^2/\text{NDF}: 7272.3/61$

All: 164.717 ± 29.432 $\chi^2/\text{NDF}: 12017.3/118$

asym_bpm0i07WS_rms vs Slug, Sign Corrected



Right In: 257.777 ± 0.050 $\chi^2/\text{NDF}: 10151450.0/33$

Left Out: 226.322 ± 0.038 $\chi^2/\text{NDF}: 521041.8/24$

Right Out: 248.287 ± 0.046 $\chi^2/\text{NDF}: 9294733.7/36$

Left In: 211.970 ± 0.037 $\chi^2/\text{NDF}: 584344.5/22$

Left: 218.941 ± 0.026 $\chi^2/\text{NDF}: 1179246.7/47$

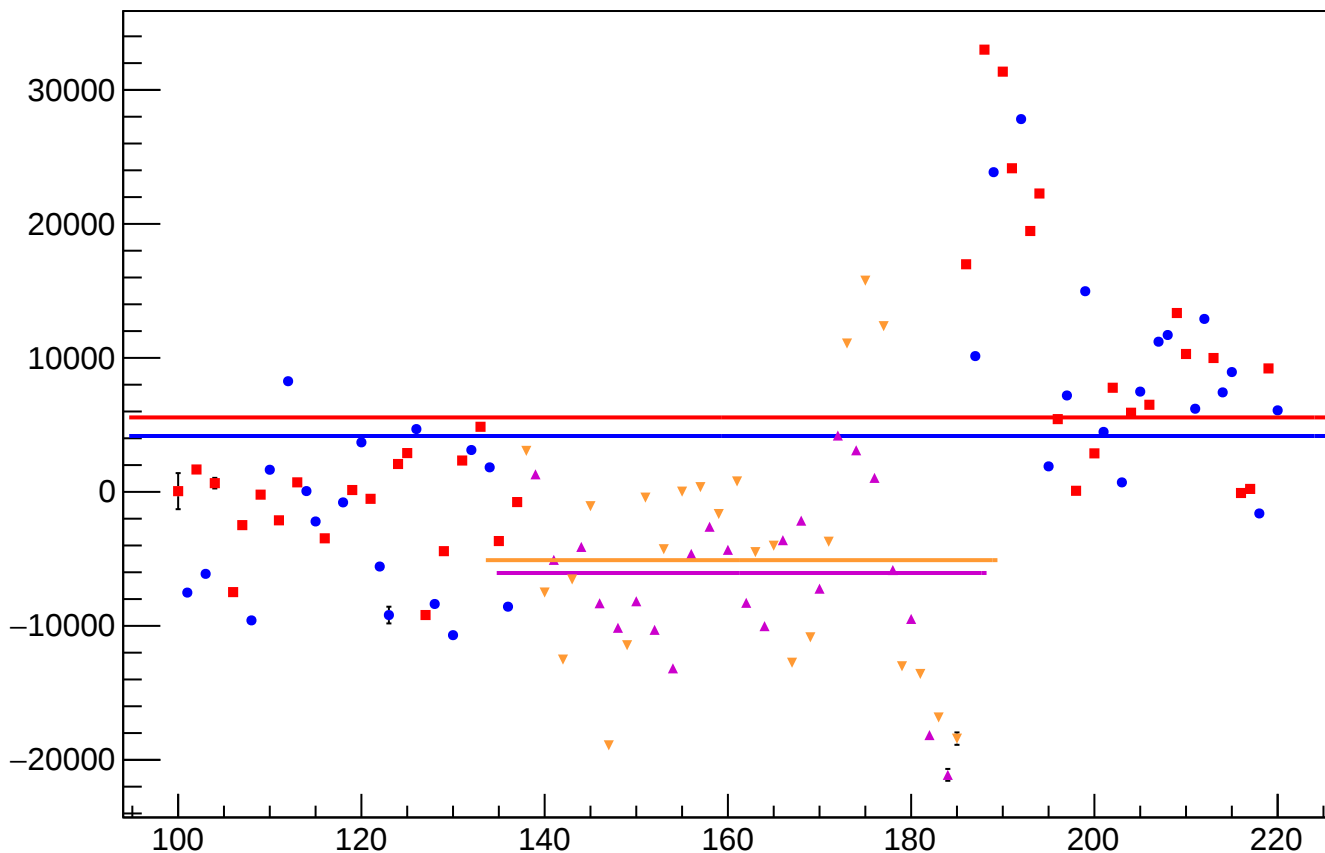
Right: 252.679 ± 0.034 $\chi^2/\text{NDF}: 19465737.6/70$

In: 228.175 ± 0.030 $\chi^2/\text{NDF}: 11283799.4/56$

Out: 235.155 ± 0.029 $\chi^2/\text{NDF}: 9951066.5/61$

All: 231.701 ± 0.021 $\chi^2/\text{NDF}: 21262981.4/111$

asym_bpm1i02WS_mean vs Slug, Sign Corrected



Right In: 4170.869+/-32.932

χ^2/NDF : 80876.8/33

Left: -5556.386+/-24.277

χ^2/NDF : 72374.6/47

Left Out: -5095.305+/-33.703

χ^2/NDF : 54395.4/24

Right: 4890.145+/-22.844

χ^2/NDF : 187161.7/70

Right Out: 5557.266+/-31.715

χ^2/NDF : 105365.4/36

In: -630.640+/-23.984

χ^2/NDF : 143734.6/56

Out: 554.408+/-23.097

χ^2/NDF : 212743.2/61

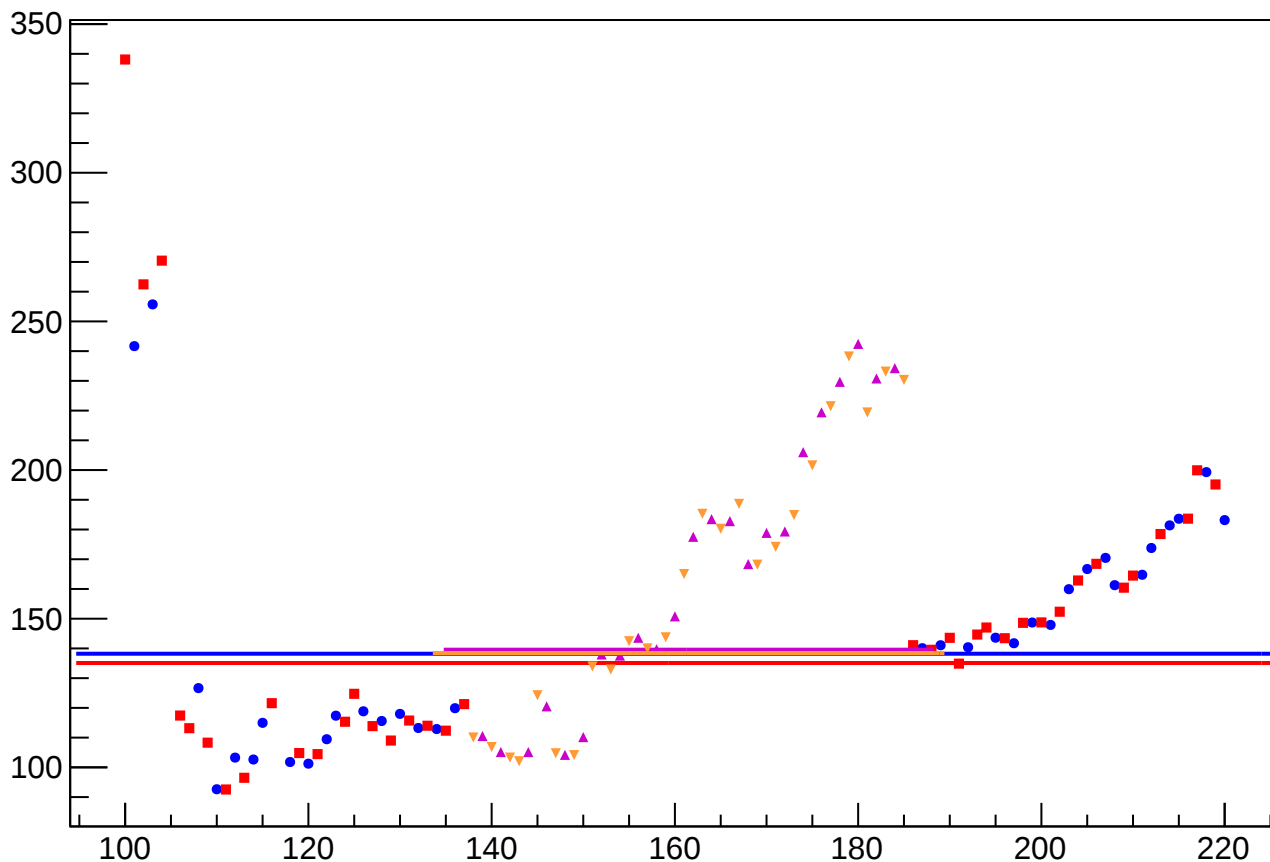
Left In: -6053.569+/-34.998

χ^2/NDF : 17590.3/22

All: -15.810+/-16.637

χ^2/NDF : 357744.5/118

asym_bpm1i02WS_rms vs Slug, Sign Corrected



Right In: 138.219+/-0.023 χ^2/NDF : 1883008.8/33

Left Out: 138.436+/-0.024 χ^2/NDF : 2549435.8/24

Right Out: 135.104+/-0.022 χ^2/NDF : 2016763.8/36

Left In: 139.578+/-0.025 χ^2/NDF : 2413658.9/22

Left: 138.985+/-0.017 χ^2/NDF : 4964199.7/47

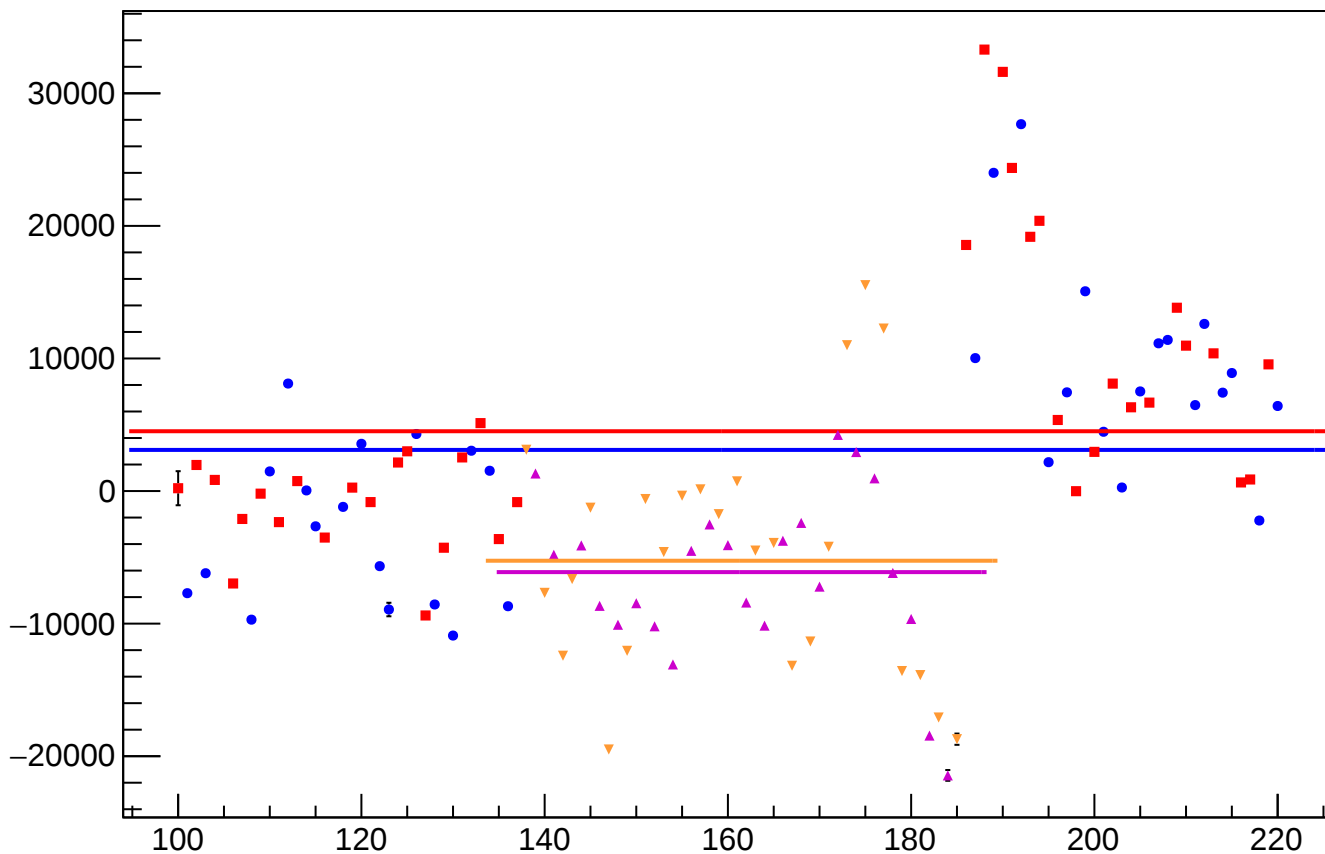
Right: 136.603+/-0.016 χ^2/NDF : 3909054.8/70

In: 138.857+/-0.017 χ^2/NDF : 4298266.8/56

Out: 136.669+/-0.016 χ^2/NDF : 4576563.9/61

All: 137.722+/-0.012 χ^2/NDF : 8883468.9/118

asym_bpm1i04WS_mean vs Slug, Sign Corrected



Right In: 3102.498+/-29.656

χ^2/NDF : 91955.2/33

Left Out: -5255.652+/-30.622

χ^2/NDF : 64324.6/24

Right Out: 4510.865+/-28.609

χ^2/NDF : 114998.4/36

Left In: -6114.901+/-32.126

χ^2/NDF : 21260.9/22

Left: -5664.697+/-22.166

χ^2/NDF : 85960.3/47

Right: 3831.973+/-20.590

χ^2/NDF : 208121.7/70

In: -1138.337+/-21.791

χ^2/NDF : 157662.3/56

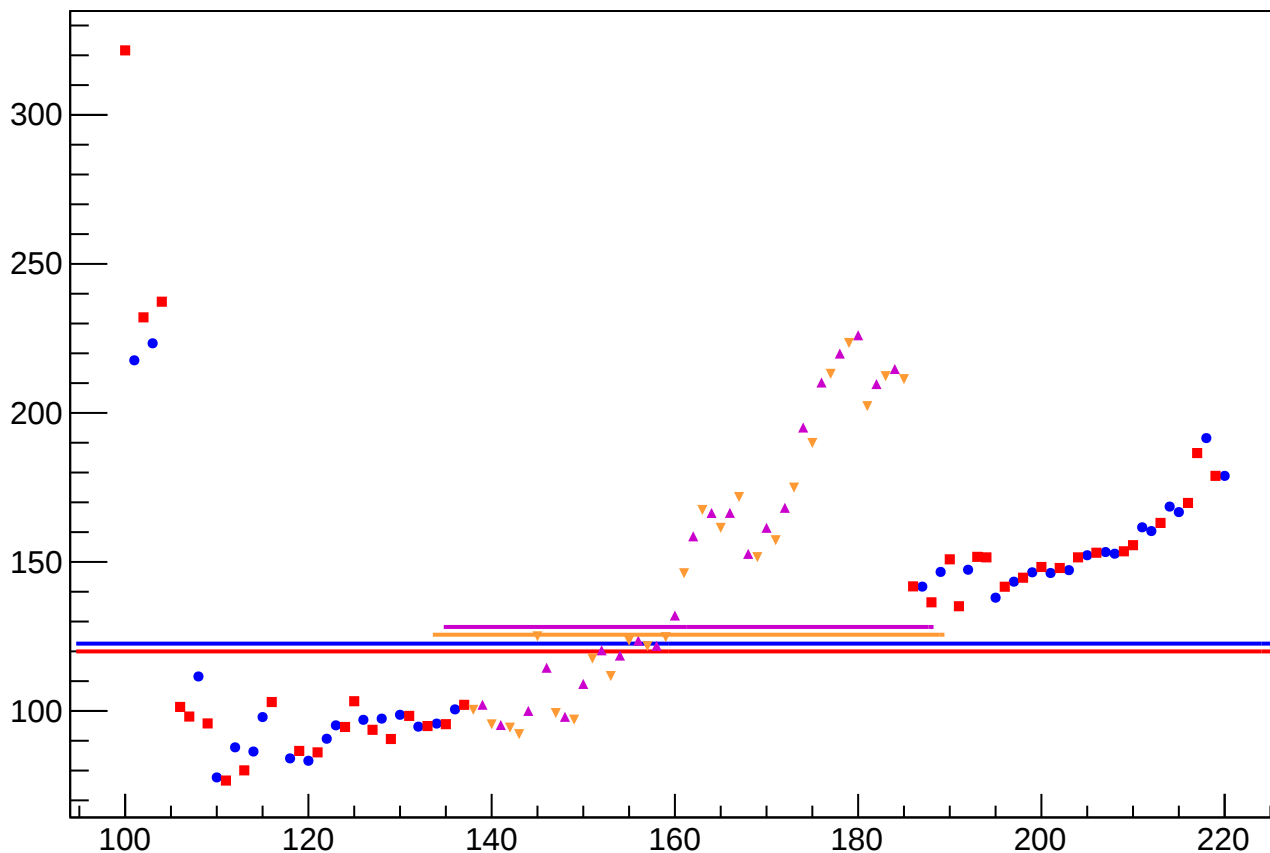
Out: -40.914+/-20.905

χ^2/NDF : 233636.3/61

All: -566.872+/-15.086

χ^2/NDF : 392619.4/111

asym_bpm1i04WS_rms vs Slug, Sign Corrected



Right In: 122.593 ± 0.021 $\chi^2/\text{NDF}: 2814147.6/33$

Left Out: 125.577 ± 0.022 $\chi^2/\text{NDF}: 2595752.6/24$

Right Out: 119.974 ± 0.020 $\chi^2/\text{NDF}: 2985874.4/36$

Left In: 128.184 ± 0.023 $\chi^2/\text{NDF}: 2332977.5/22$

Left: 126.818 ± 0.016 $\chi^2/\text{NDF}: 4935627.6/47$

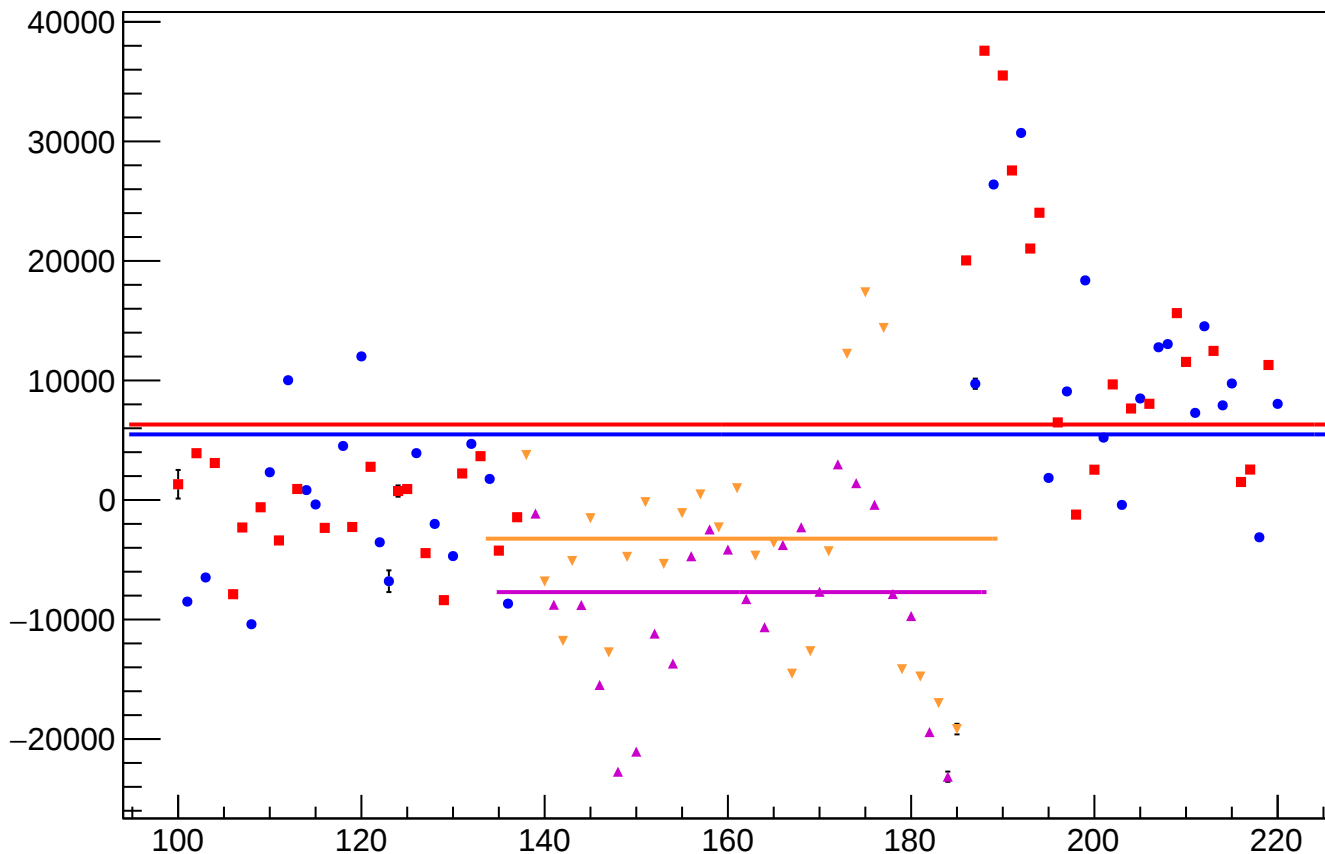
Right: 121.236 ± 0.015 $\chi^2/\text{NDF}: 5808101.2/70$

In: 125.165 ± 0.015 $\chi^2/\text{NDF}: 5179832.0/56$

Out: 122.585 ± 0.015 $\chi^2/\text{NDF}: 5617387.3/61$

All: 123.822 ± 0.011 $\chi^2/\text{NDF}: 10811815.8/111$

asym_bpm1i06WS_mean vs Slug, Sign Corrected



Right In: 5487.473+/-39.100 χ^2/NDF : 64034.3/33

Left Out: -3234.922+/-40.583 χ^2/NDF :36739.9/24

Right Out: 6314.758+/-37.663 χ^2/NDF : 94346.0/36

Left In: -7707.068+/-42.990 χ^2/NDF :21268.3/22

Left: -5342.284+/-29.511 χ^2/NDF : 63730.6/47

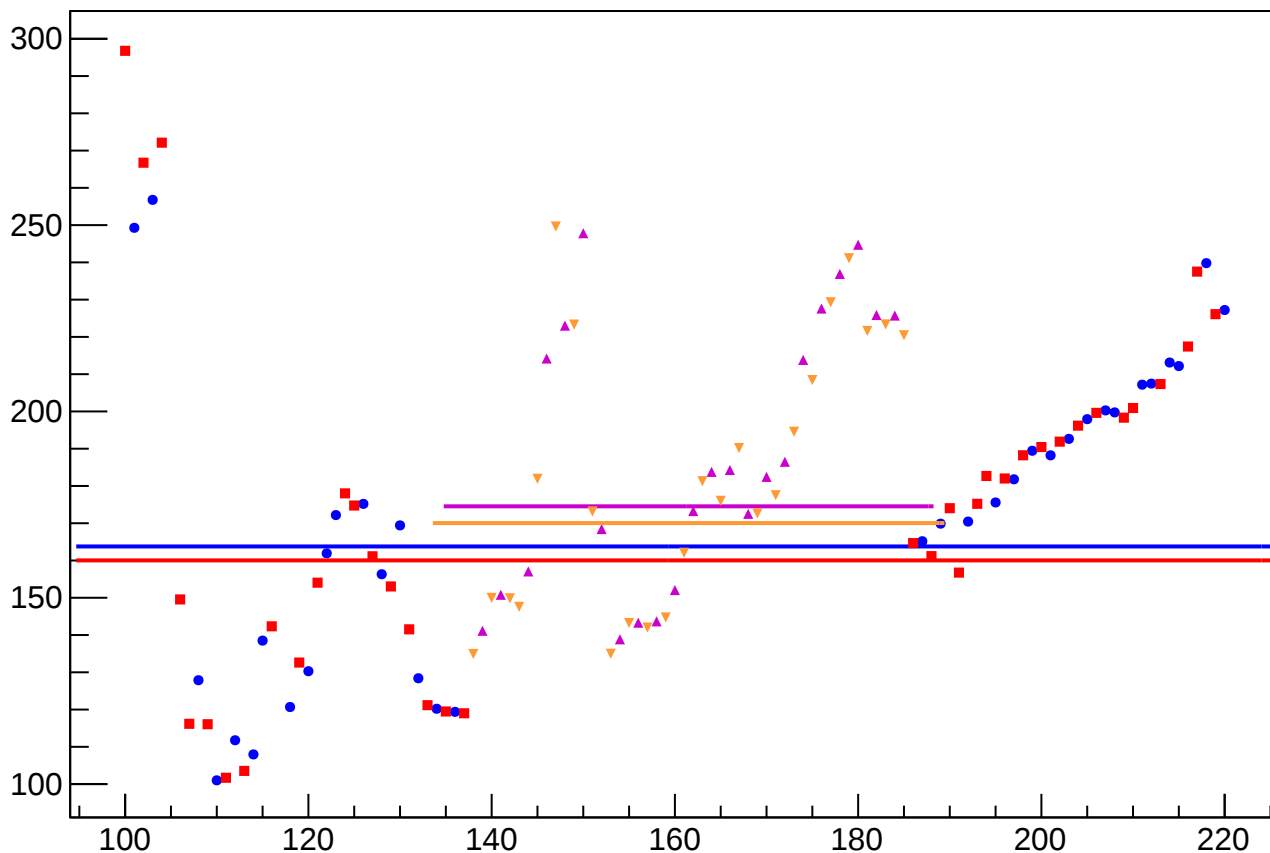
Right: 5916.605+/-27.125 χ^2/NDF : 158612.6/70

In: -486.017+/-28.926 χ^2/NDF :136856.6/56

Out: 1895.814+/-27.606 χ^2/NDF :160836.0/61

All: 760.464+/-19.971 χ^2/NDF : 301240.9/118

asym_bpm1i06WS_rms vs Slug, Sign Corrected



Right In: 163.770 $\pm$ 0.028 χ^2/NDF : 2192023.4/33

Left Out: 170.050 $\pm$ 0.029 χ^2/NDF : 1240866.9/24

Right Out: 160.027 $\pm$ 0.027 χ^2/NDF : 2307812.7/36

Left In: 174.539 $\pm$ 0.030 χ^2/NDF : 1210071.2/22

Left: 172.165 $\pm$ 0.021 χ^2/NDF : 2462472.2/47

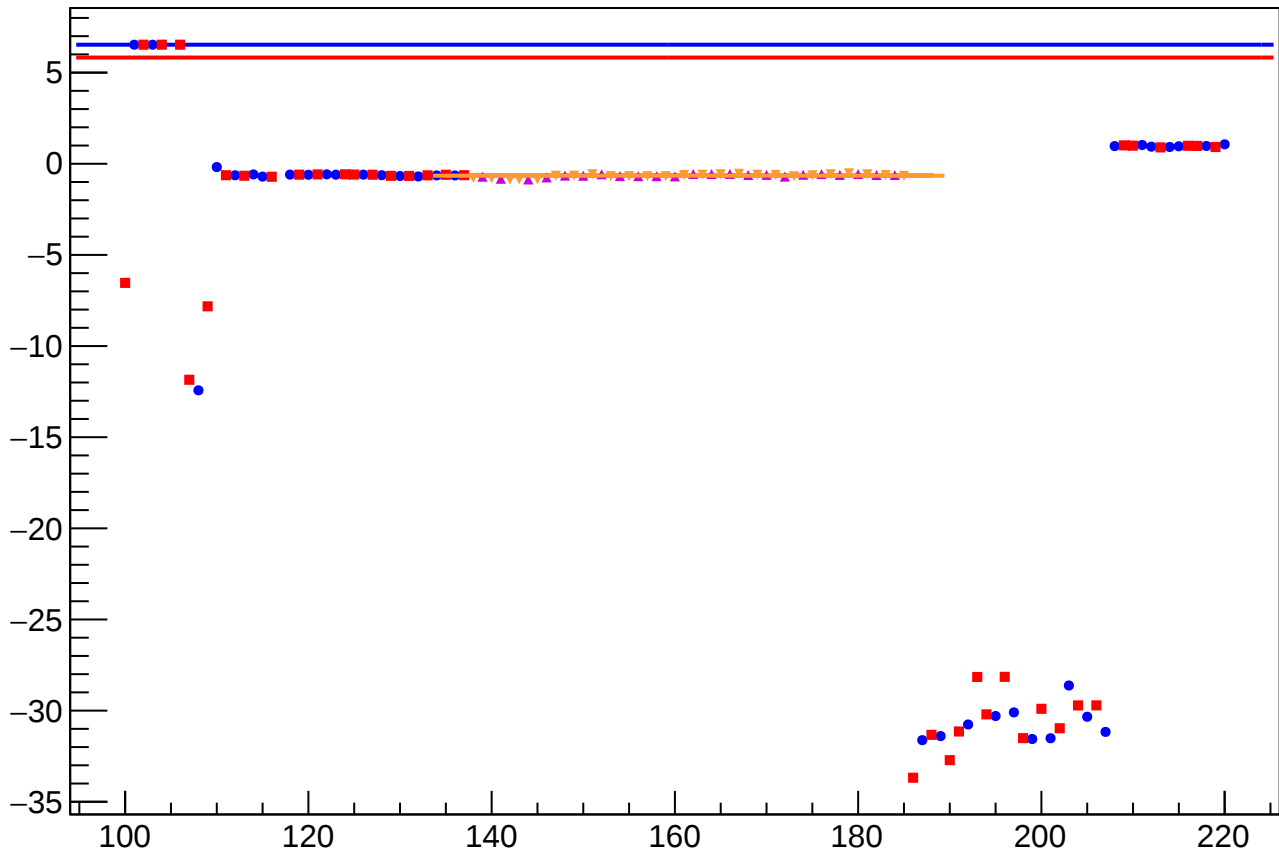
Right: 161.829 $\pm$ 0.019 χ^2/NDF : 4509342.5/70

In: 168.646 $\pm$ 0.020 χ^2/NDF : 3470777.8/56

Out: 164.665 $\pm$ 0.020 χ^2/NDF : 3614214.3/61

All: 166.562 $\pm$ 0.014 χ^2/NDF : 7104813.7/118

yield_cav4bX_mean vs Slug, Sign Corrected



Right In: 6.532+/-0.000 χ^2/NDF : 140605315378.4/33

Left Out: -0.654+/-0.000 χ^2/NDF : 179109810.4/24

Right Out: 5.827+/-0.000 χ^2/NDF : 755956015700050.8/36

Left In: -0.644+/-0.000 χ^2/NDF : 122913584.0/22

Left: -0.649+/-0.000 χ^2/NDF : 302910331.9/47

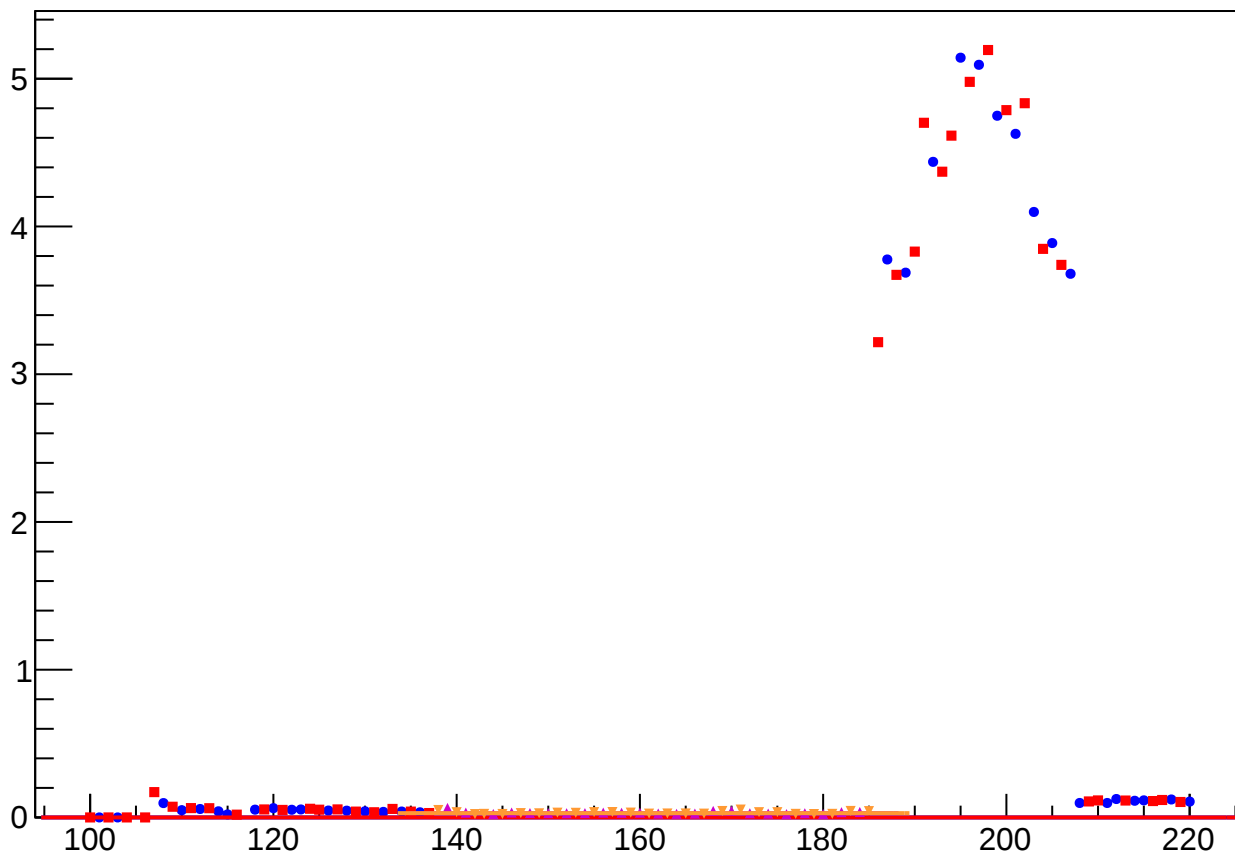
Right: 6.155+/-0.000 χ^2/NDF : 776099274735563.2/47

In: 6.530+/-0.000 χ^2/NDF : 965945805158.7/56

Out: 5.826+/-0.000 χ^2/NDF : 756665040131713.9/61

All: 6.153+/-0.000 χ^2/NDF : 77762263374241.9/104

yield_cav4bX_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 32867584.2/33

Left Out: 0.029+/-0.000 χ^2/NDF :1487017.7/24

Right Out: 0.000+/-0.000 χ^2/NDF : 33479010.5/36

Left In: 0.029+/-0.000 χ^2/NDF :1164030.9/22

Left: 0.029+/-0.000 χ^2/NDF : 2651180.7/47

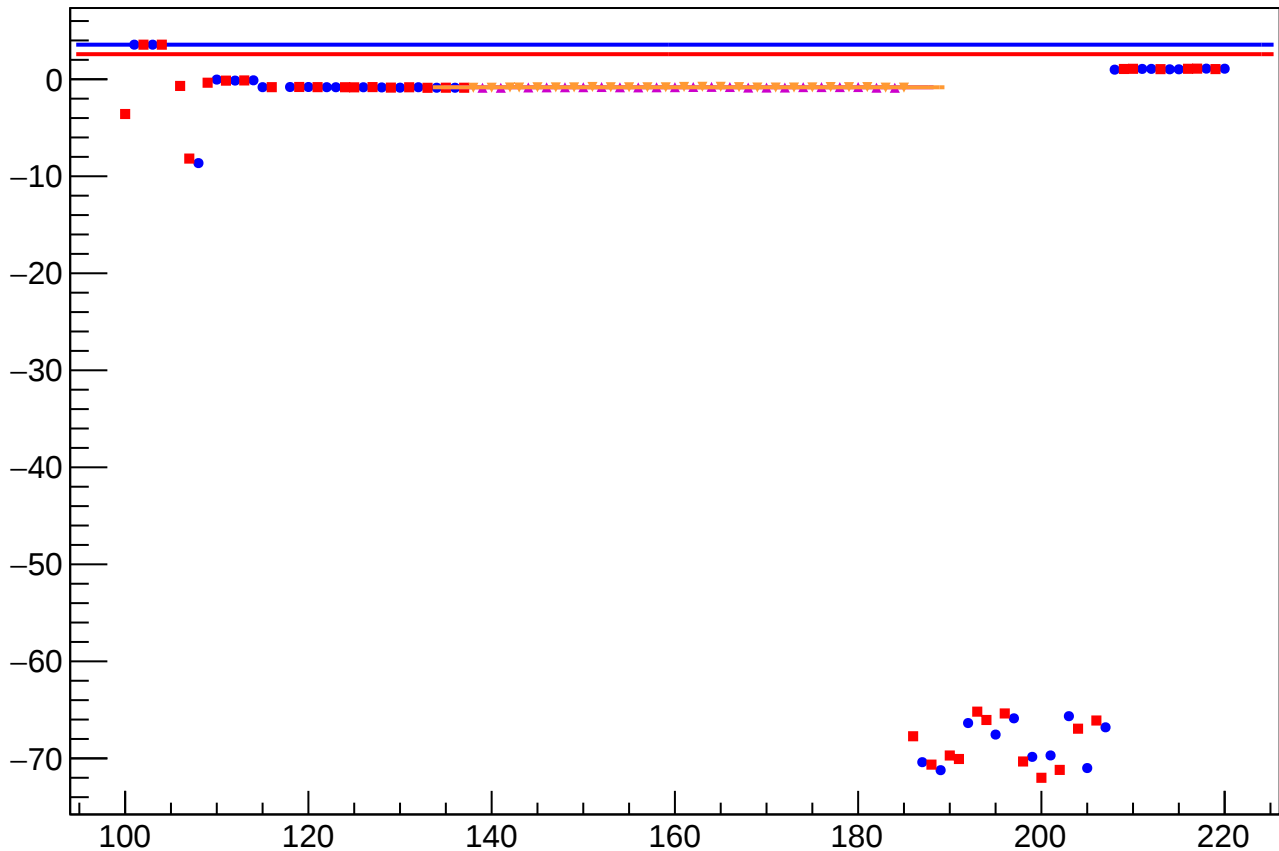
Right: 0.000+/-0.000 χ^2/NDF : 66346890.3/70

In: 0.000+/-0.000 χ^2/NDF :60828150.3/56

Out: 0.000+/-0.000 χ^2/NDF :63353808.5/61

All: 0.000+/-0.000 χ^2/NDF : 124182432.7/118

yield_cav4bY_mean vs Slug, Sign Corrected



Right In: 3.563+/-0.000 χ^2/NDF : 596690855583.5/33

Left Out: -0.828+/-0.000 χ^2/NDF : 168178464.8/24

Right Out: 2.583+/-0.000 χ^2/NDF : 1253568542000589.8/36

Left In: -0.827+/-0.000 χ^2/NDF : 172640246.1/22

Left: -0.827+/-0.000 χ^2/NDF : 340927693.4/47

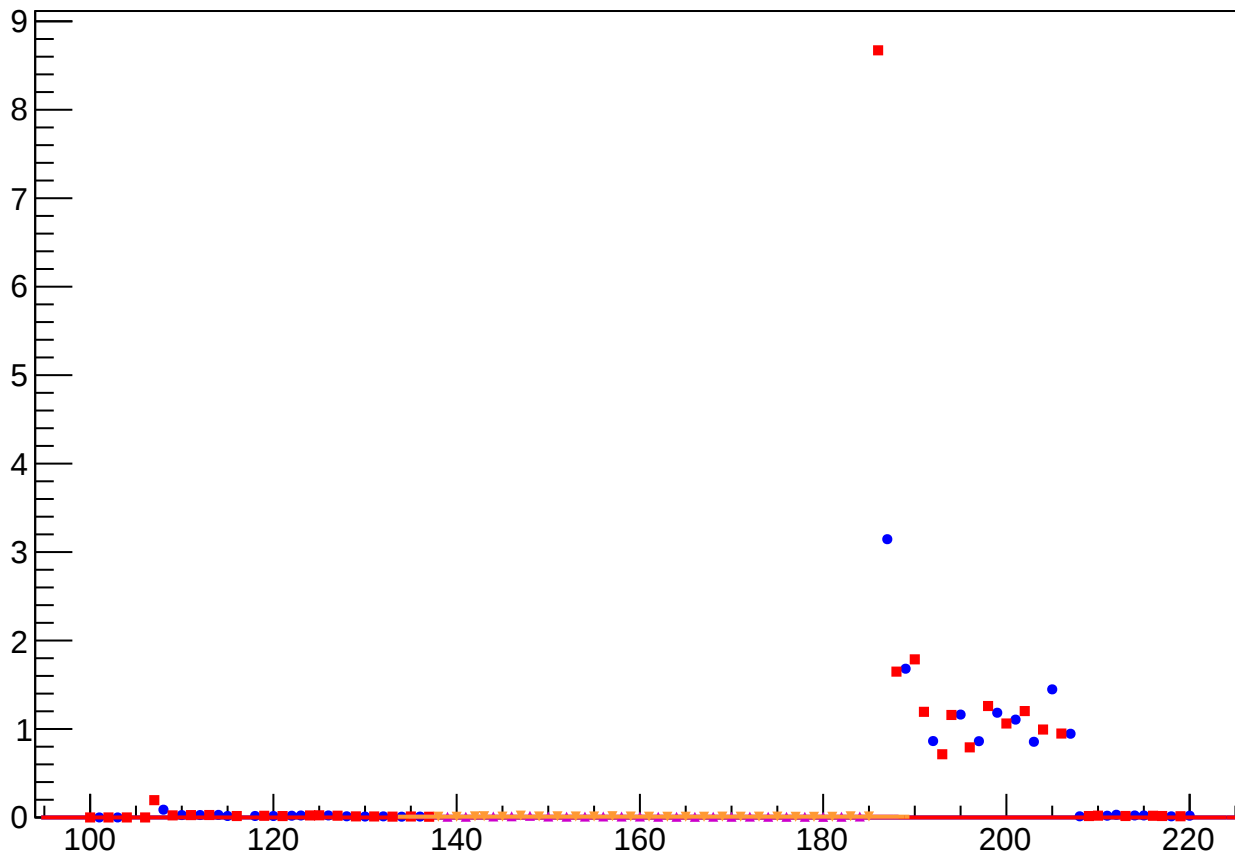
Right: 3.040+/-0.000 χ^2/NDF : 1382428642963349.1

In: 3.560+/-0.000 χ^2/NDF : 4242216691622.2/56

Out: 2.581+/-0.000 χ^2/NDF : 1255790768799342.0

All: 3.037+/-0.000 χ^2/NDF : 13881148044258

yield_cav4bY_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 29839262.7/33

Left Out: 0.009+/-0.000 χ^2/NDF :1454710.9/24

Right Out: 0.000+/-0.000 χ^2/NDF : 31060939.3/36

Left In: 0.009+/-0.000 χ^2/NDF :1041524.9/22

Left: 0.009+/-0.000 χ^2/NDF : 2502231.5/47

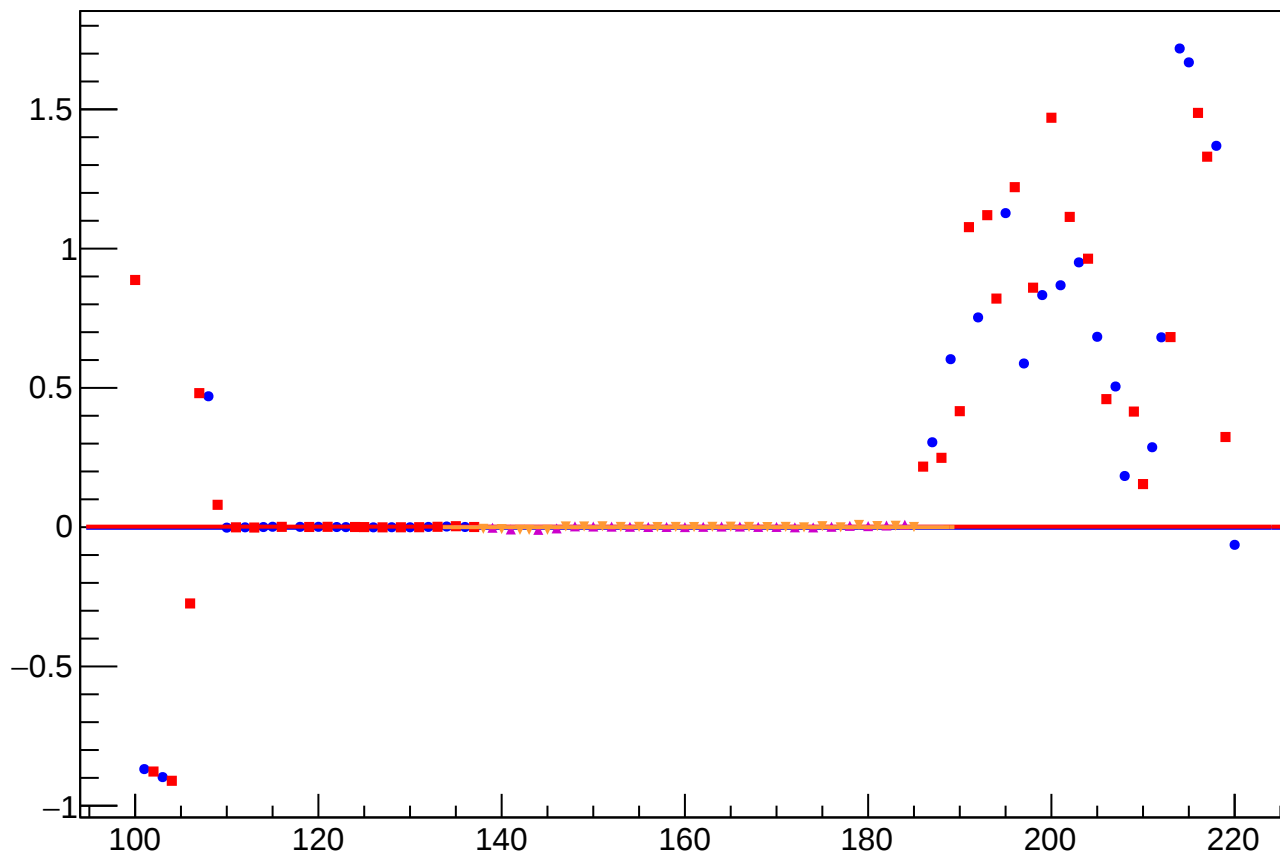
Right: 0.000+/-0.000 χ^2/NDF : 60900522.3/70

In: 0.000+/-0.000 χ^2/NDF :59369254.9/56

Out: 0.000+/-0.000 χ^2/NDF :62473772.0/61

All: 0.000+/-0.000 χ^2/NDF : 121843844.5/118

yield_cav4cX_mean vs Slug, Sign Corrected



Right In: -0.002 ± 0.000

χ^2/NDF : 9798024697.1/33

Left: 0.000 ± 0.000 χ^2/NDF : 254436385.6/47

Right: -0.000 ± 0.000 χ^2/NDF : 12856028153.7/70

Left Out: -0.000 ± 0.000

χ^2/NDF : 151482851.1/24

In: -0.000 ± 0.000 χ^2/NDF : 9910471722.2/56

Right Out: 0.002 ± 0.000

χ^2/NDF : 3044234546.8/36

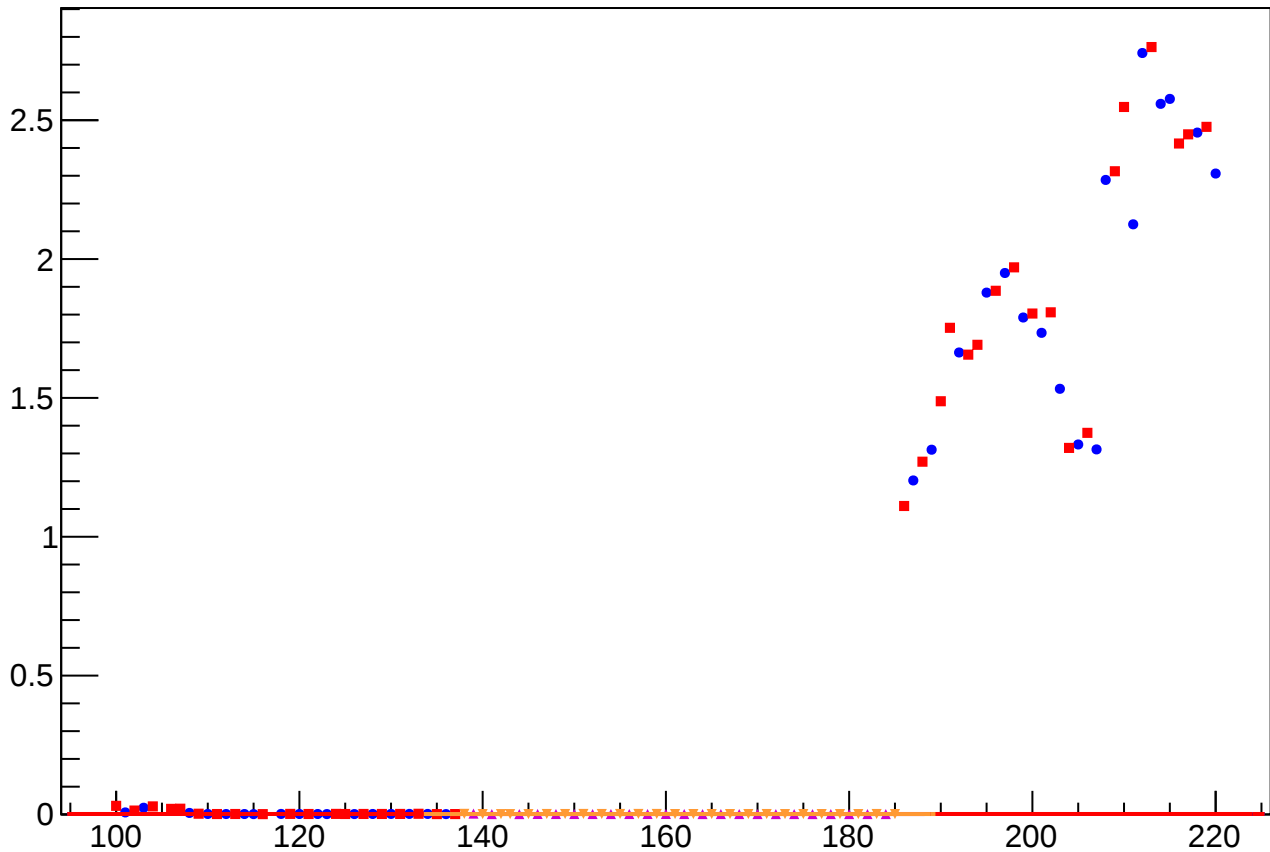
Out: 0.000 ± 0.000 χ^2/NDF : 3200453026.5/61

Left In: 0.001 ± 0.000

χ^2/NDF : 101439617.3/22

All: 0.000 ± 0.000 χ^2/NDF : 13111261722.6/133

yield_cav4cX_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 25761679.0/33

Left Out: 0.001+/-0.000 χ^2/NDF :539817.3/24

Right Out: 0.002+/-0.000 χ^2/NDF : 27127696.3/36

Left In: 0.001+/-0.000 χ^2/NDF :626044.8/22

Left: 0.001+/-0.000 χ^2/NDF : 1169603.9/47

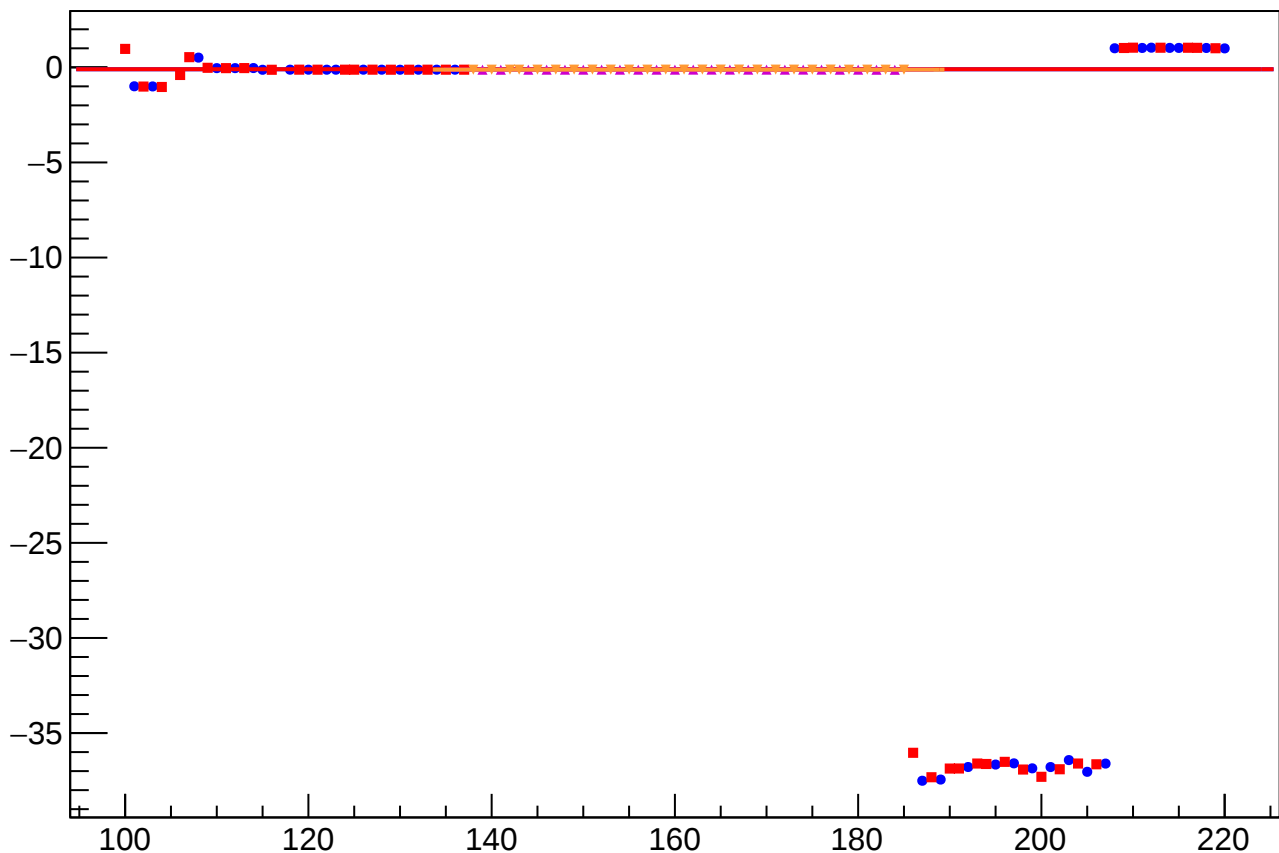
Right: 0.002+/-0.000 χ^2/NDF : 52897877.4/70

In: 0.002+/-0.000 χ^2/NDF :26440441.5/56

Out: 0.002+/-0.000 χ^2/NDF :27808091.1/61

All: 0.002+/-0.000 χ^2/NDF : 54249453.1/118

yield_cav4cY_mean vs Slug, Sign Corrected



Right In: -0.102+/-0.000 χ^2/NDF : 107475842563.9/33

Left Out: -0.121+/-0.000 χ^2/NDF : 58120109.3/24

Right Out: -0.099+/-0.000 χ^2/NDF : 106352518452.6/36

Left In: -0.121+/-0.000 χ^2/NDF : 52113932.9/22

Left: -0.121+/-0.000 χ^2/NDF : 110482905.6/47

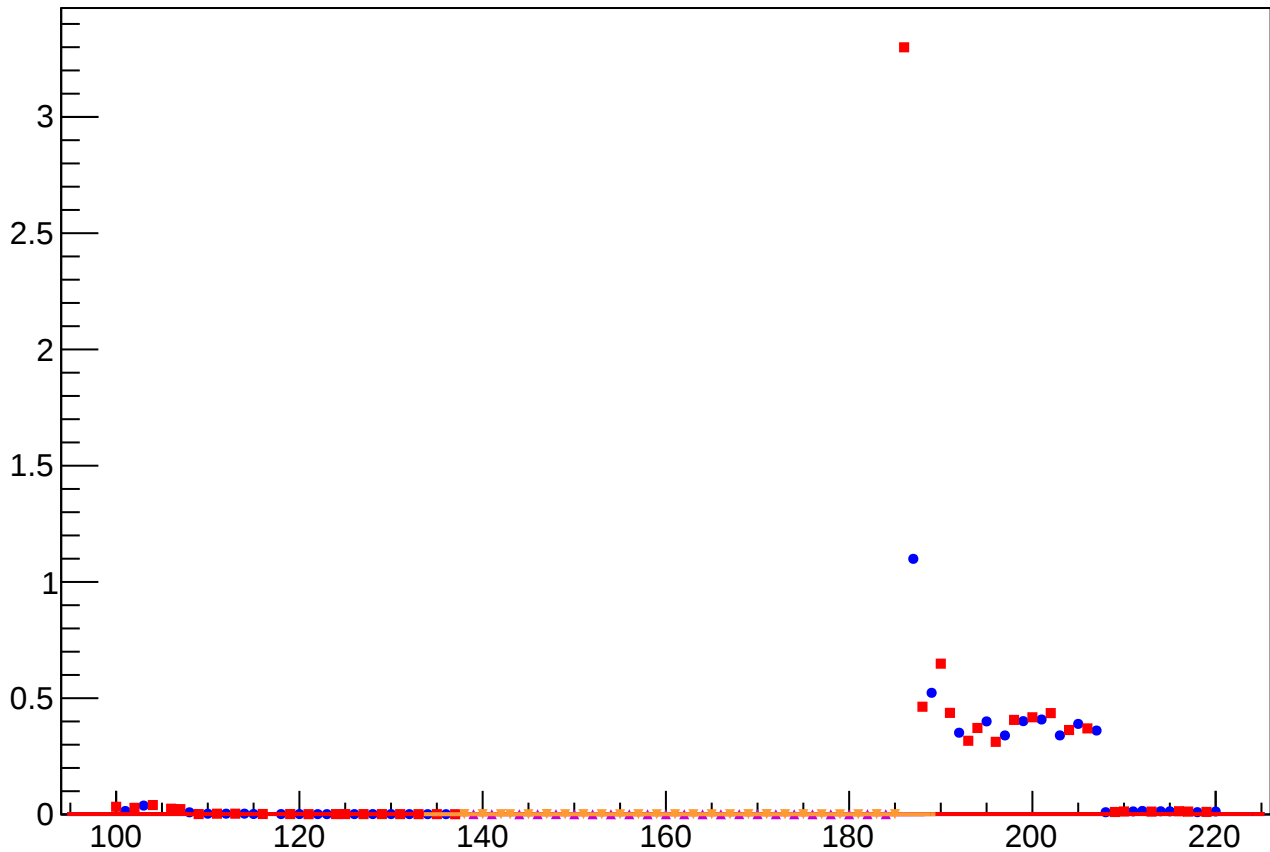
Right: -0.100+/-0.000 χ^2/NDF : 213837253709.8/70

In: -0.119+/-0.000 χ^2/NDF : 108160470560.1/56

Out: -0.119+/-0.000 χ^2/NDF : 107276516158.6/61

All: -0.119+/-0.000 χ^2/NDF : 215436988753.7

yield_cav4cY_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 23392570.2/33

Left Out: 0.001+/-0.000 χ^2/NDF :1363316.8/24

Right Out: 0.002+/-0.000 χ^2/NDF : 24862143.0/36

Left In: 0.001+/-0.000 χ^2/NDF :970801.8/22

Left: 0.001+/-0.000 χ^2/NDF : 2335161.7/47

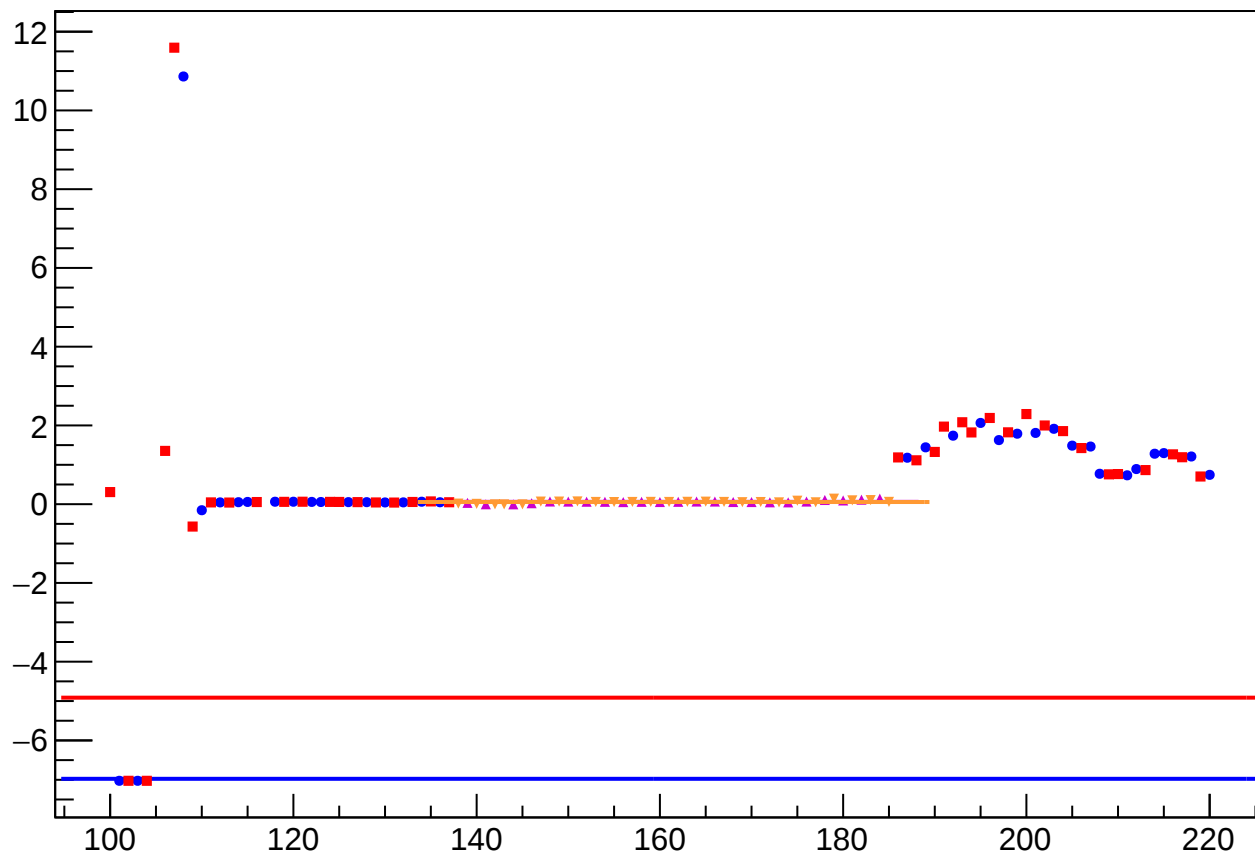
Right: 0.002+/-0.000 χ^2/NDF : 48255904.0/70

In: 0.001+/-0.000 χ^2/NDF :26387325.2/56

Out: 0.001+/-0.000 χ^2/NDF :28167517.7/61

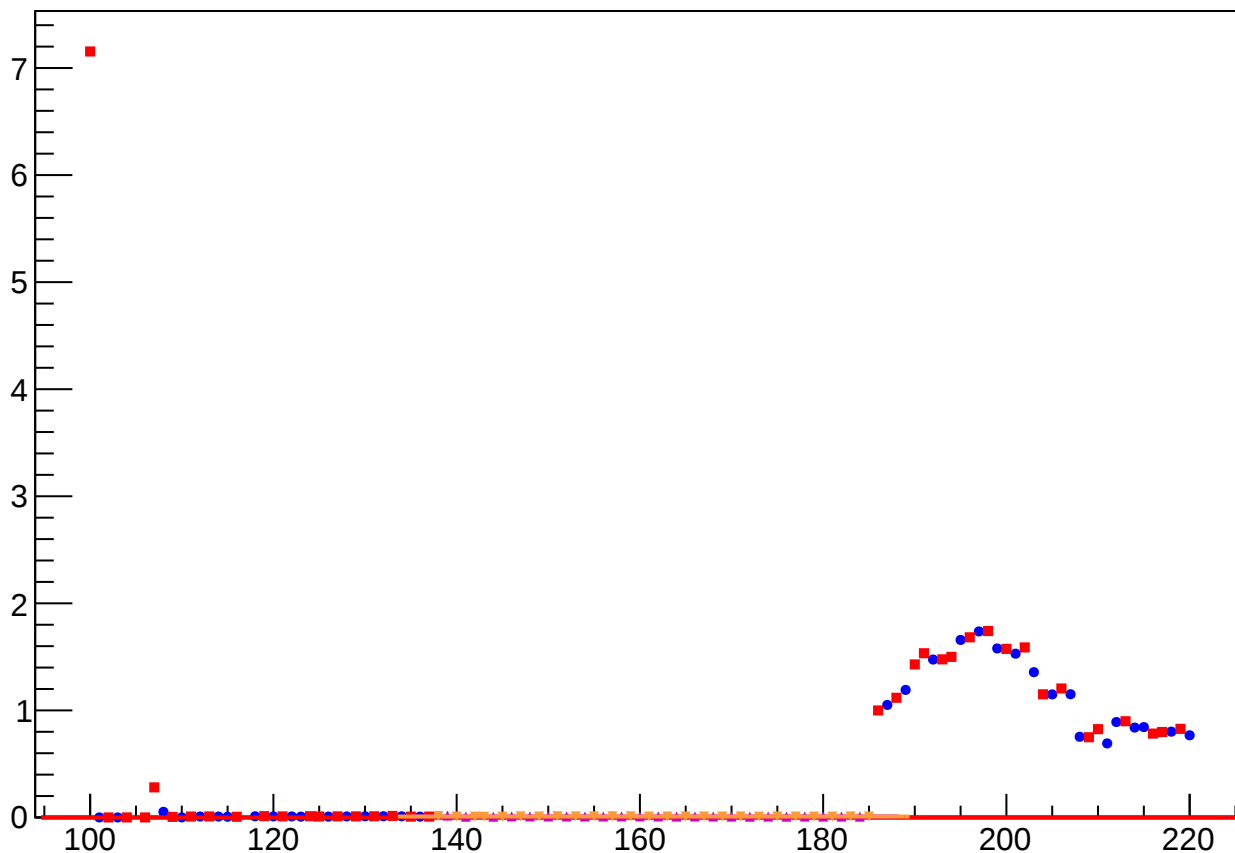
All: 0.001+/-0.000 χ^2/NDF : 54558892.9/118

yield_cav4dX_mean vs Slug, Sign Corrected



Right In: -6.975 ± 0.000 $\chi^2/\text{NDF}: 8798133106237.1/33$ 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 $\chi^2/\text{NDF}: 430334396805855.1$
 Right Out: -4.914 ± 0.000 $\chi^2/\text{NDF}: 365353061829329.8/36$ In: -6.926 ± 0.000 $\chi^2/\text{NDF}: 17553644282034.6/56$
 Left In: 0.059 ± 0.000 $\chi^2/\text{NDF}: 178541521.9/22$ Out: -4.879 ± 0.000 $\chi^2/\text{NDF}: 370165621987531.8/36$
 All: -5.858 ± 0.000 $\chi^2/\text{NDF}: 4435296780478$

yield_cav4dX_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 32215679.2/33

Left Out: 0.009+/-0.000 χ^2/NDF :514432.8/24

Right Out: 0.000+/-0.000 χ^2/NDF : 32919688.9/36

Left In: 0.009+/-0.000 χ^2/NDF :602517.2/22

Left: 0.009+/-0.000 χ^2/NDF : 1122225.0/47

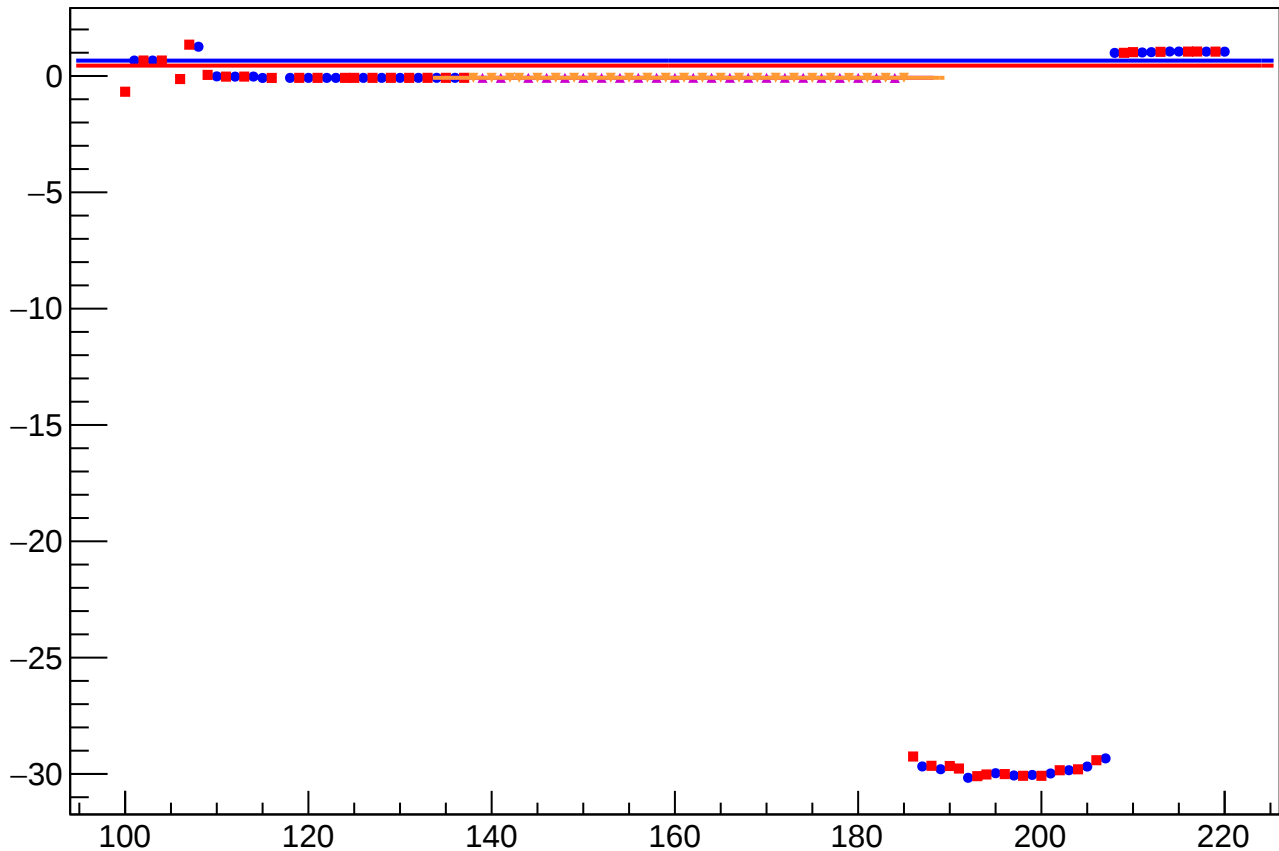
Right: 0.000+/-0.000 χ^2/NDF : 65135728.6/70

In: 0.000+/-0.000 χ^2/NDF :59631921.3/56

Out: 0.000+/-0.000 χ^2/NDF :61862367.4/61

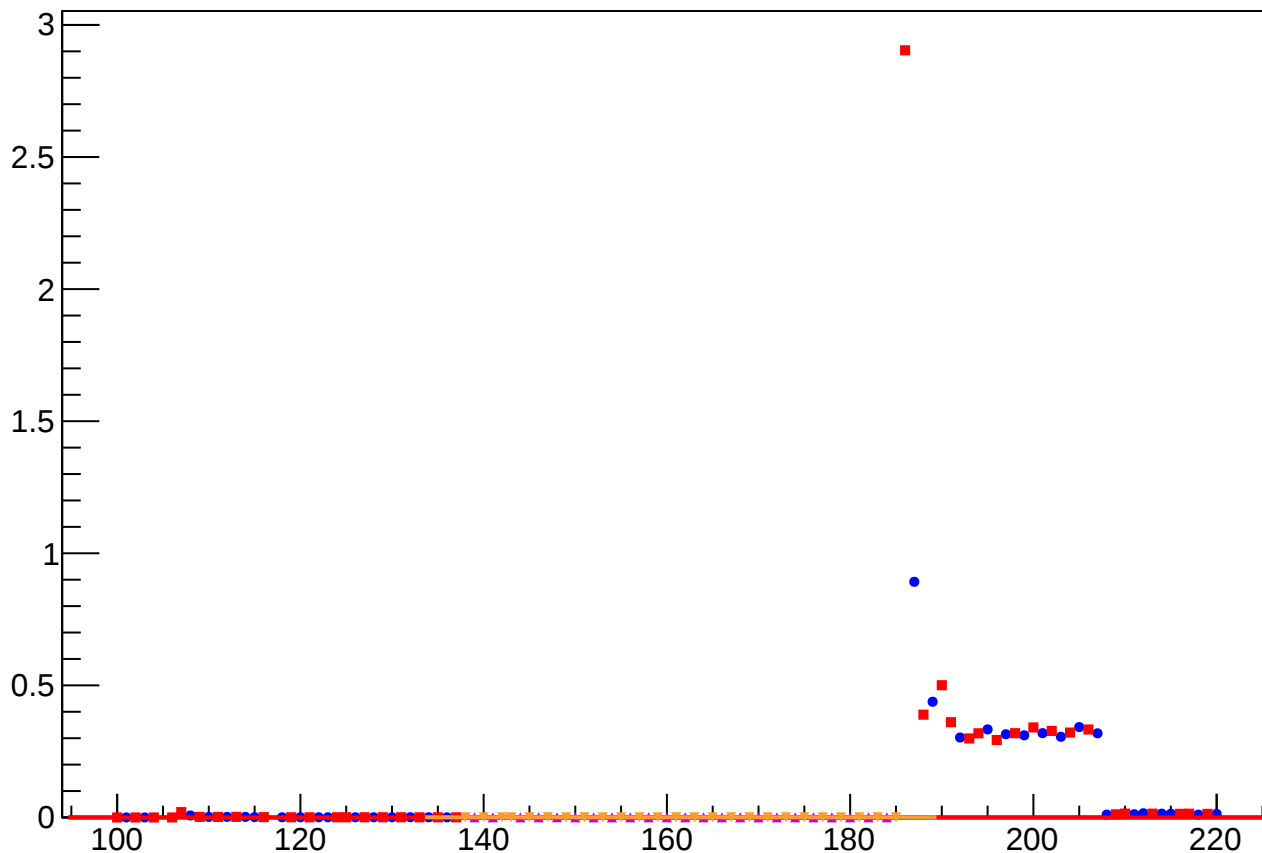
All: 0.000+/-0.000 χ^2/NDF : 121494767.9/118

yield_cav4dY_mean vs Slug, Sign Corrected



Right In: 0.661+/-0.000	χ^2/NDF : 5723367065605.2/33	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 : 474135408242321.5
Right Out: 0.446+/-0.000	χ^2/NDF : 405498407383097.8/36	In: 0.647+/-0.000	χ^2/NDF : 33764376713103.3/56
Left In: -0.077+/-0.000	χ^2/NDF : 110762924.1/22	Out: 0.436+/-0.000	χ^2/NDF : 420659760606579.2/6
		All: 0.537+/-0.000	χ^2/NDF : 51598042910439

yield_cav4dY_rms vs Slug, Sign Corrected



Right In: 0.000+/-0.000 χ^2/NDF : 33412346.4/33

Left Out: 0.001+/-0.000 χ^2/NDF :465981.8/24

Right Out: 0.000+/-0.000 χ^2/NDF : 33424073.6/36

Left In: 0.001+/-0.000 χ^2/NDF :355509.7/22

Left: 0.001+/-0.000 χ^2/NDF : 822503.5/47

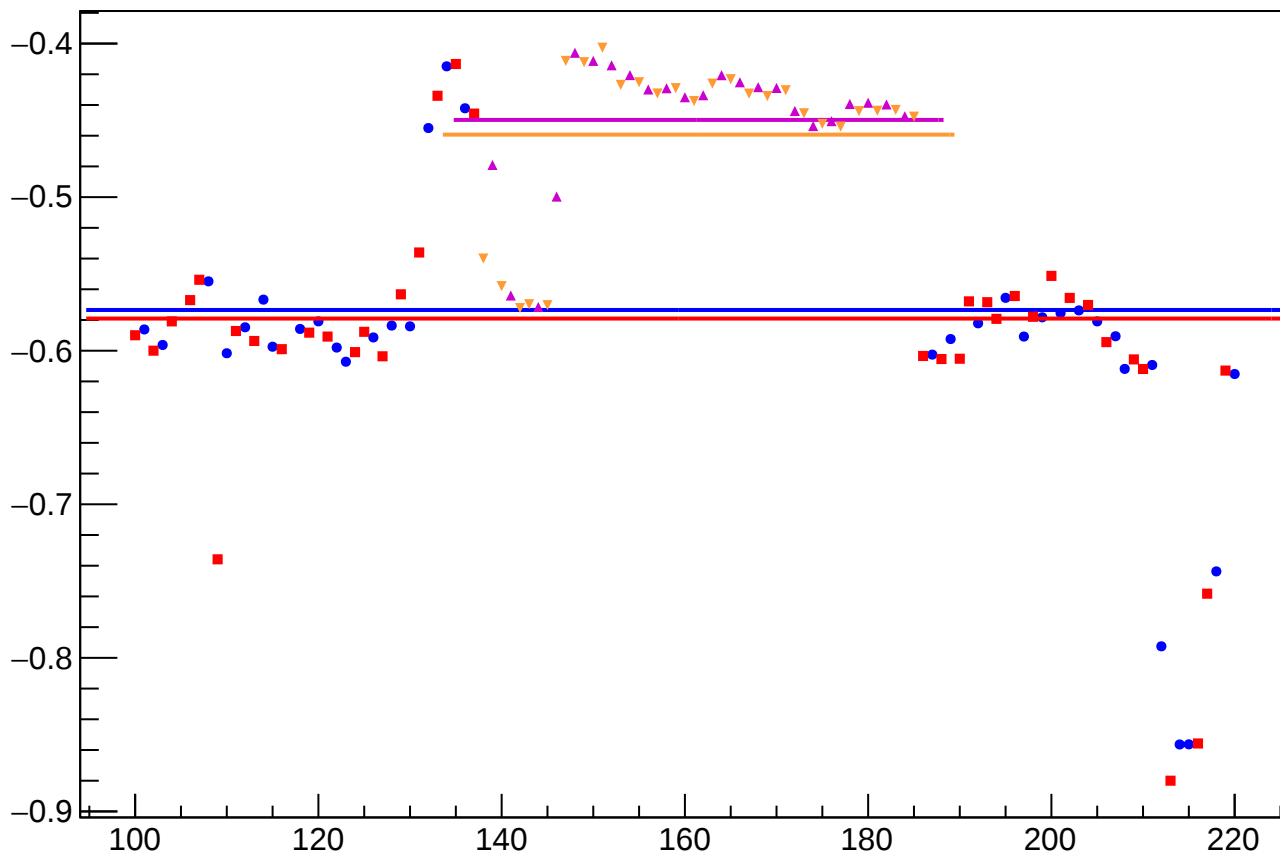
Right: 0.000+/-0.000 χ^2/NDF : 66836454.2/70

In: 0.000+/-0.000 χ^2/NDF :64128323.4/56

Out: 0.000+/-0.000 χ^2/NDF :66032122.1/61

All: 0.000+/-0.000 χ^2/NDF : 130160853.5/118

yield_bpm4aX_mean vs Slug, Sign Corrected



Right In: -0.573+/-0.000 χ^2/NDF : 115032594.8/33

Left Out: -0.459+/-0.000 χ^2/NDF : 113602161.0/24

Right Out: -0.579+/-0.000 χ^2/NDF : 120116739.0/36

Left In: -0.450+/-0.000 χ^2/NDF : 76117957.8/22

Left: -0.455+/-0.000 χ^2/NDF : 191493218.8/47

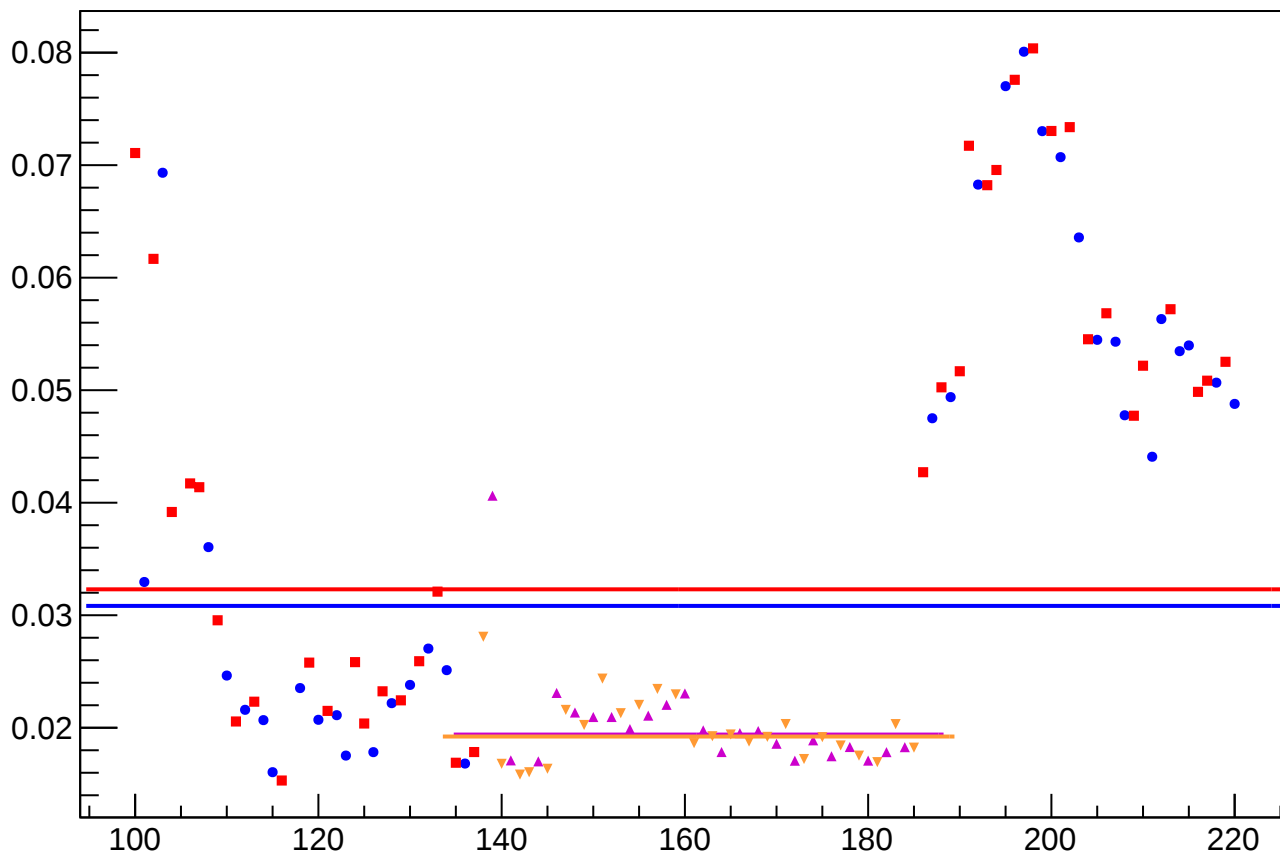
Right: -0.576+/-0.000 χ^2/NDF : 235366124.2/70

In: -0.484+/-0.000 χ^2/NDF : 348628519.8/56

Out: -0.489+/-0.000 χ^2/NDF : 378408322.5/61

All: -0.487+/-0.000 χ^2/NDF : 727790325.0/11

yield_bpm4aX_rms vs Slug, Sign Corrected



Right In: 0.031+/-0.000 χ^2/NDF : 7995325.3/33

Left Out: 0.019+/-0.000 χ^2/NDF : 501711.6/24

Right Out: 0.032+/-0.000 χ^2/NDF : 7821173.0/36

Left In: 0.019+/-0.000 χ^2/NDF : 626443.5/22

Left: 0.019+/-0.000 χ^2/NDF : 1129330.7/47

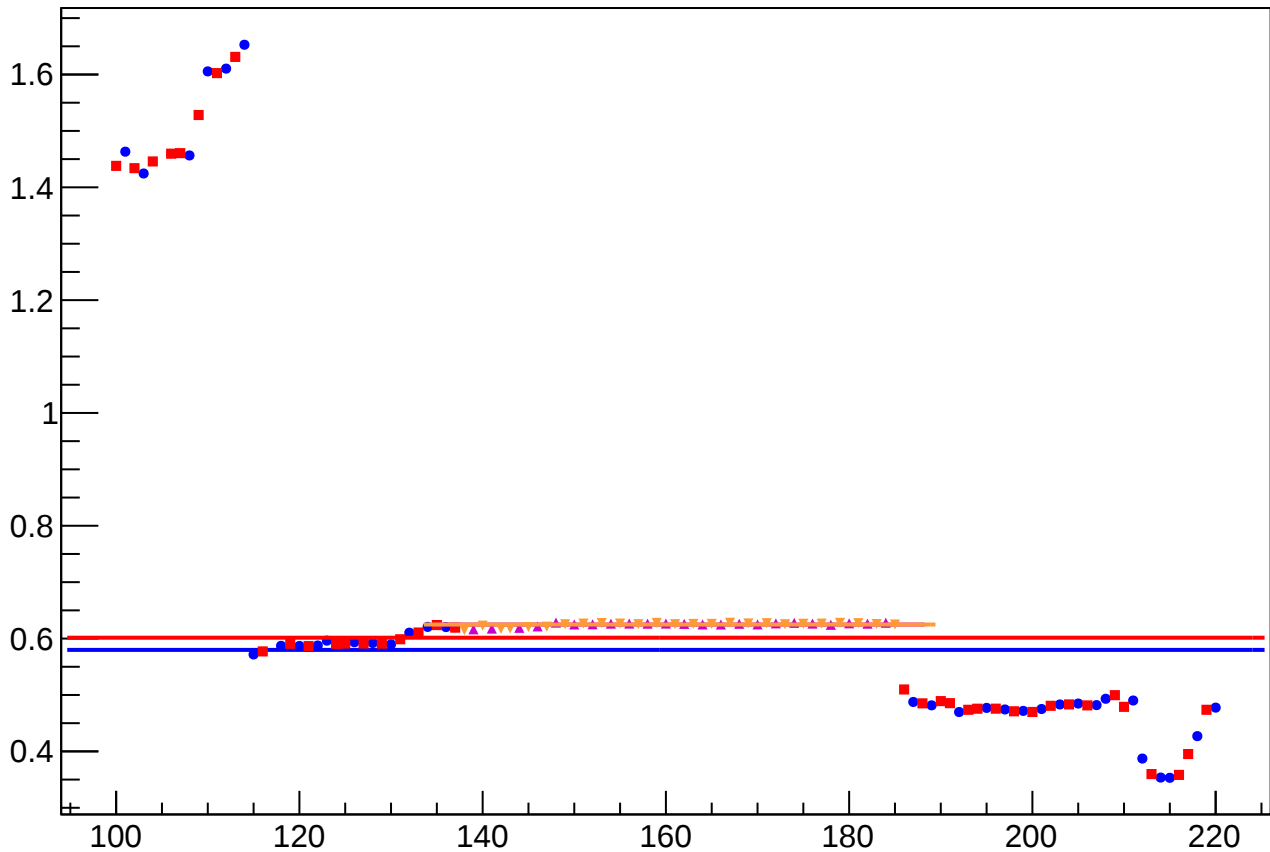
Right: 0.032+/-0.000 χ^2/NDF : 15846545.9/70

In: 0.023+/-0.000 χ^2/NDF : 11310841.1/56

Out: 0.023+/-0.000 χ^2/NDF : 11776362.6/61

All: 0.023+/-0.000 χ^2/NDF : 23087384.2/118

yield_bpm4aY_mean vs Slug, Sign Corrected



Right In: 0.580+/-0.000 χ^2/NDF : 5614399592.4/33

Left Out: 0.625+/-0.000 χ^2/NDF :1445169.1/24

Right Out: 0.602+/-0.000 χ^2/NDF : 6625391227.3/36

Left In: 0.625+/-0.000 χ^2/NDF :1143954.1/22

Left: 0.625+/-0.000 χ^2/NDF : 2589565.7/47

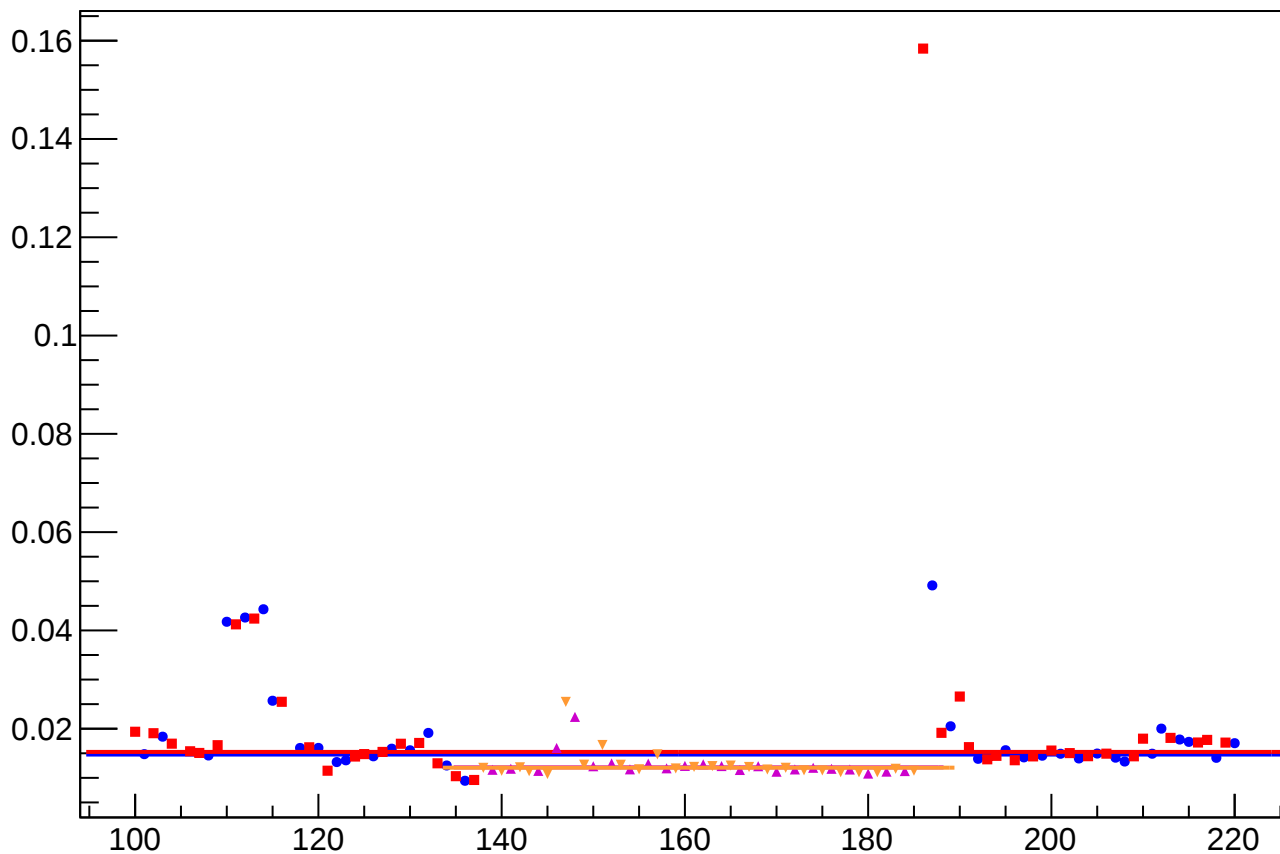
Right: 0.590+/-0.000 χ^2/NDF : 12257734596.5/70

In: 0.606+/-0.000 χ^2/NDF :5709363675.2/56

Out: 0.616+/-0.000 χ^2/NDF :6652115320.5/61

All: 0.611+/-0.000 χ^2/NDF : 12370410615.7/131

yield_bpm4aY_rms vs Slug, Sign Corrected



Right In: 0.015 ± 0.000 $\chi^2/\text{NDF}: 1873633.1/33$

Left Out: 0.012 ± 0.000 $\chi^2/\text{NDF}: 657199.9/24$

Right Out: 0.015 ± 0.000 $\chi^2/\text{NDF}: 2234188.2/36$

Left In: 0.012 ± 0.000 $\chi^2/\text{NDF}: 488363.6/22$

Left: 0.012 ± 0.000 $\chi^2/\text{NDF}: 1146061.0/47$

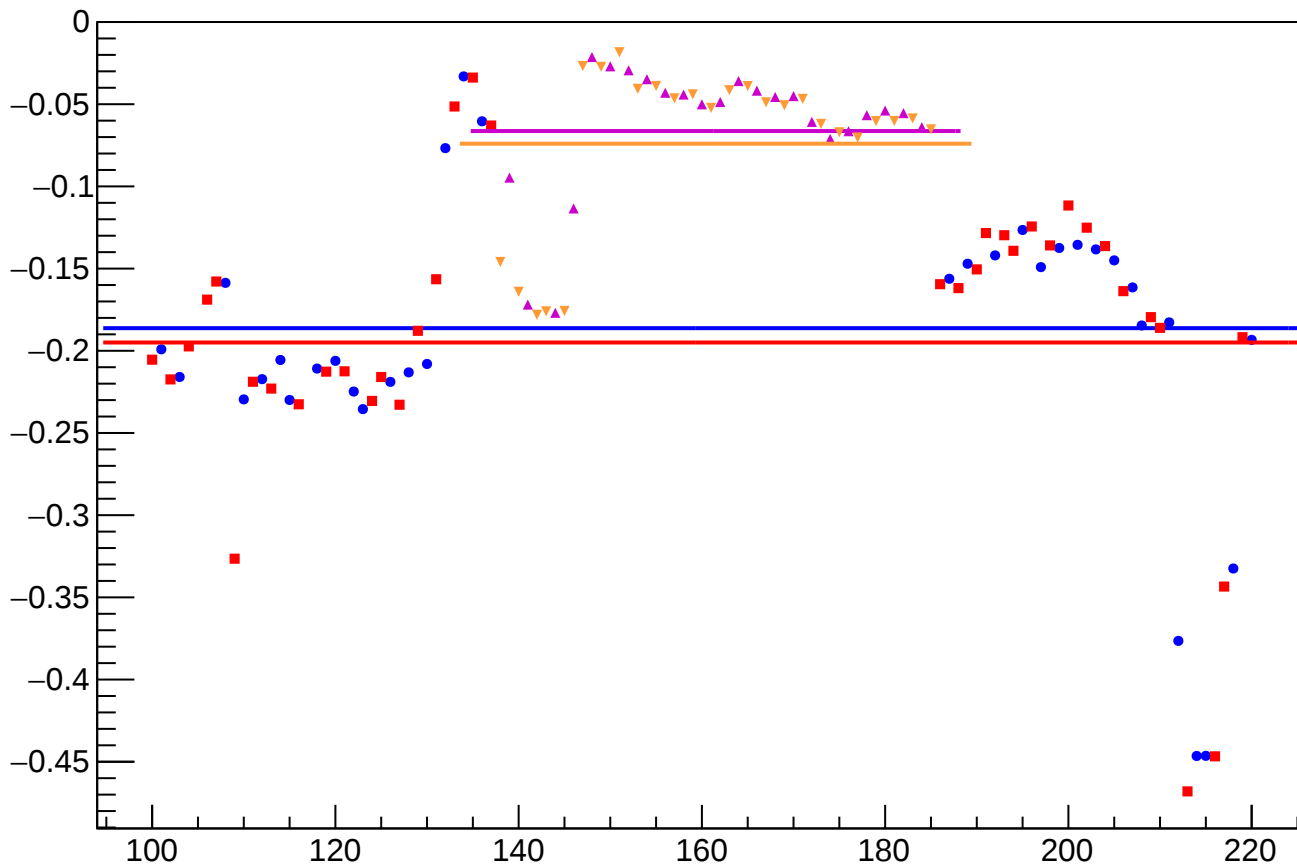
Right: 0.015 ± 0.000 $\chi^2/\text{NDF}: 4129898.1/70$

In: 0.013 ± 0.000 $\chi^2/\text{NDF}: 2994821.7/56$

Out: 0.013 ± 0.000 $\chi^2/\text{NDF}: 3843728.2/61$

All: 0.013 ± 0.000 $\chi^2/\text{NDF}: 6840122.8/118$

yield_bpm4eX_mean vs Slug, Sign Corrected



Right In: -0.186+/-0.000 χ^2/NDF : 127718401.7/33

Left Out: -0.074+/-0.000 χ^2/NDF : 107676601.9/24

Right Out: -0.195+/-0.000 χ^2/NDF : 134432015.8/36

Left In: -0.066+/-0.000 χ^2/NDF : 76243051.8/22

Left: -0.070+/-0.000 χ^2/NDF : 185076997.5/47

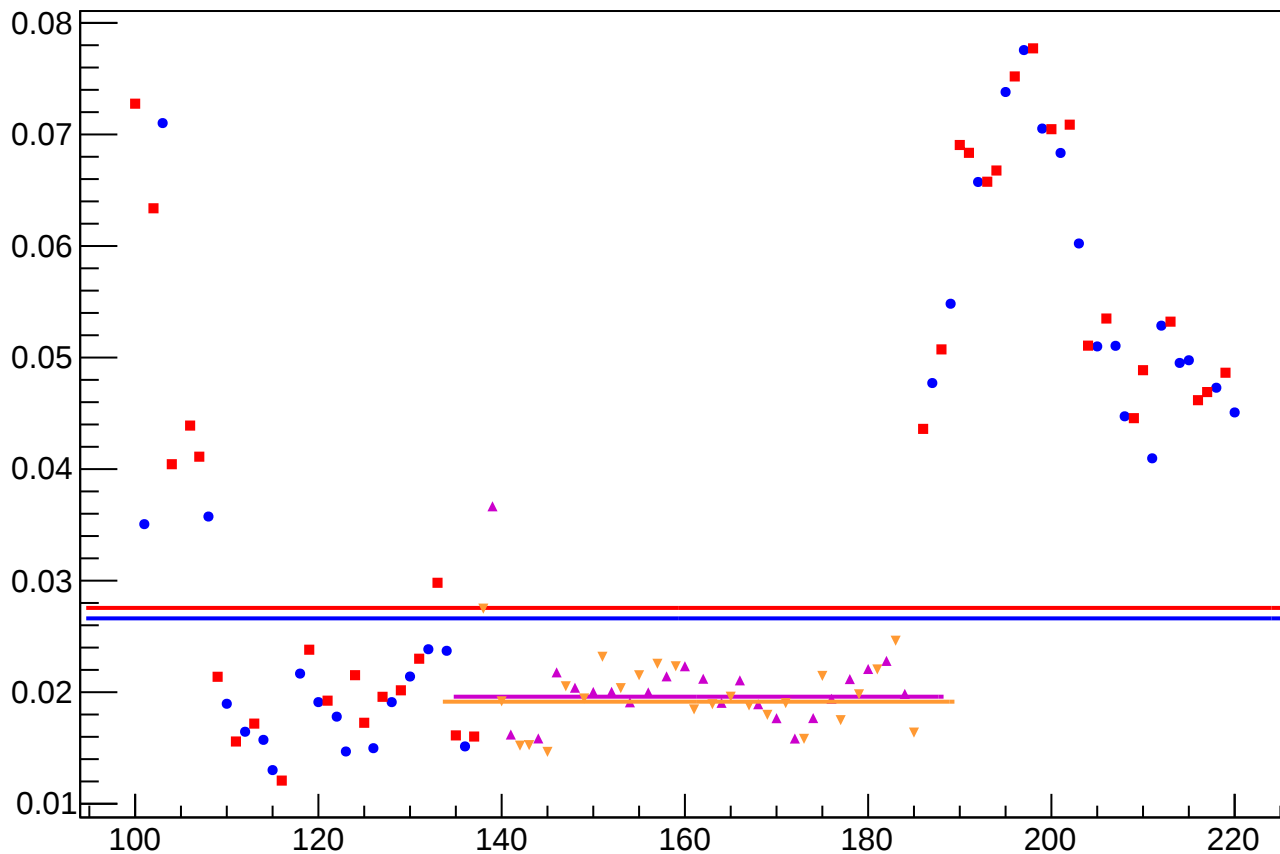
Right: -0.191+/-0.000 χ^2/NDF : 262824216.1/70

In: -0.106+/-0.000 χ^2/NDF : 379099588.3/56

Out: -0.110+/-0.000 χ^2/NDF : 420683340.1/61

All: -0.108+/-0.000 χ^2/NDF : 800301531.4/111

yield_bpm4eX_rms vs Slug, Sign Corrected



Right In: 0.027 $\pm$ 0.000 χ^2/NDF : 9386428.4/33

Left Out: 0.019 $\pm$ 0.000 χ^2/NDF : 641277.0/24

Right Out: 0.028 $\pm$ 0.000 χ^2/NDF : 9581688.9/36

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

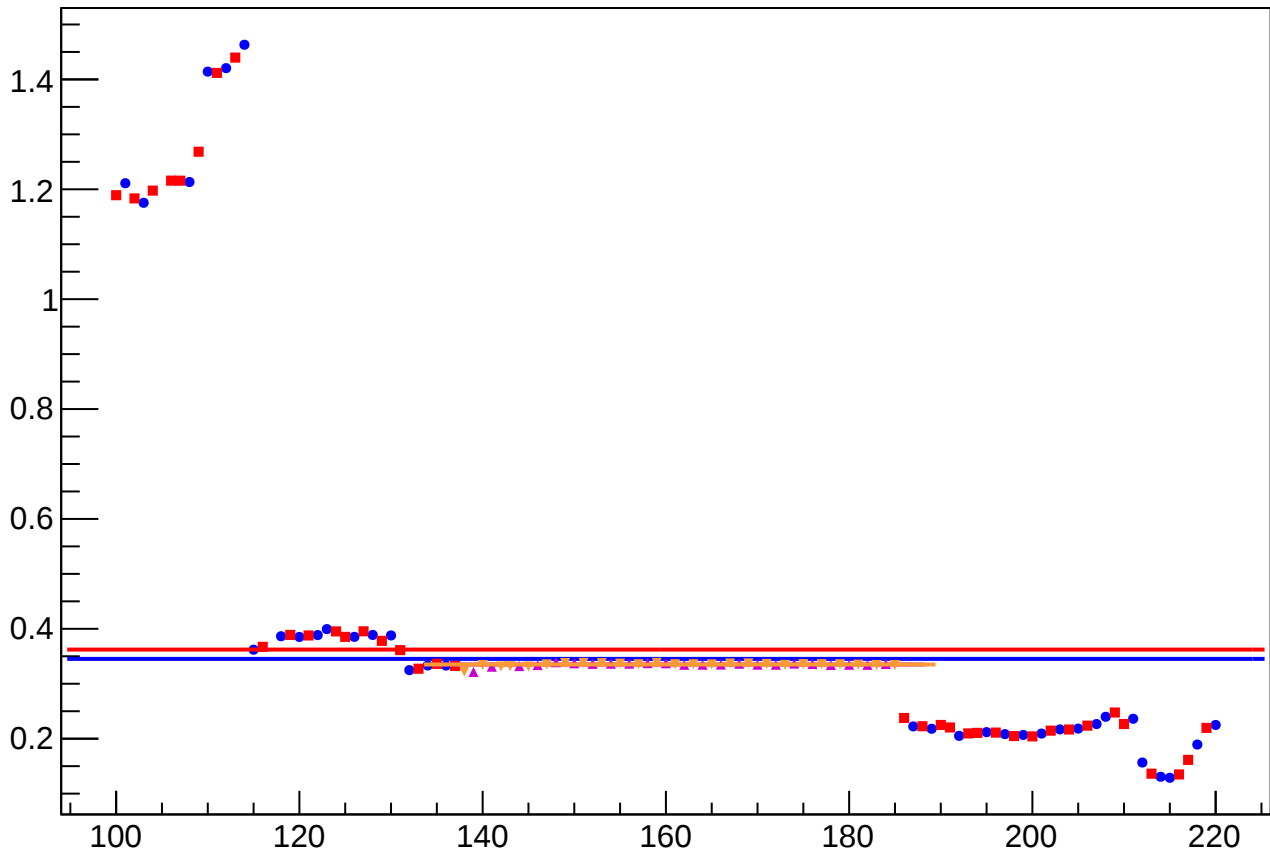
Right: 0.027 $\pm$ 0.000 χ^2/NDF : 18983719.0/70

In: 0.022 $\pm$ 0.000 χ^2/NDF : 11210363.7/56

Out: 0.022 $\pm$ 0.000 χ^2/NDF : 11948830.4/61

All: 0.022 $\pm$ 0.000 χ^2/NDF : 23162877.2/118

yield_bpm4eY_mean vs Slug, Sign Corrected



Right In: 0.345+/-0.000 χ^2/NDF : 8087790430.0/33

Left Out: 0.335+/-0.000 χ^2/NDF :1154310.3/24

Right Out: 0.362+/-0.000 χ^2/NDF : 9132859124.2/36

Left In: 0.335+/-0.000 χ^2/NDF :1202194.8/22

Left: 0.335+/-0.000 χ^2/NDF : 2356931.1/47

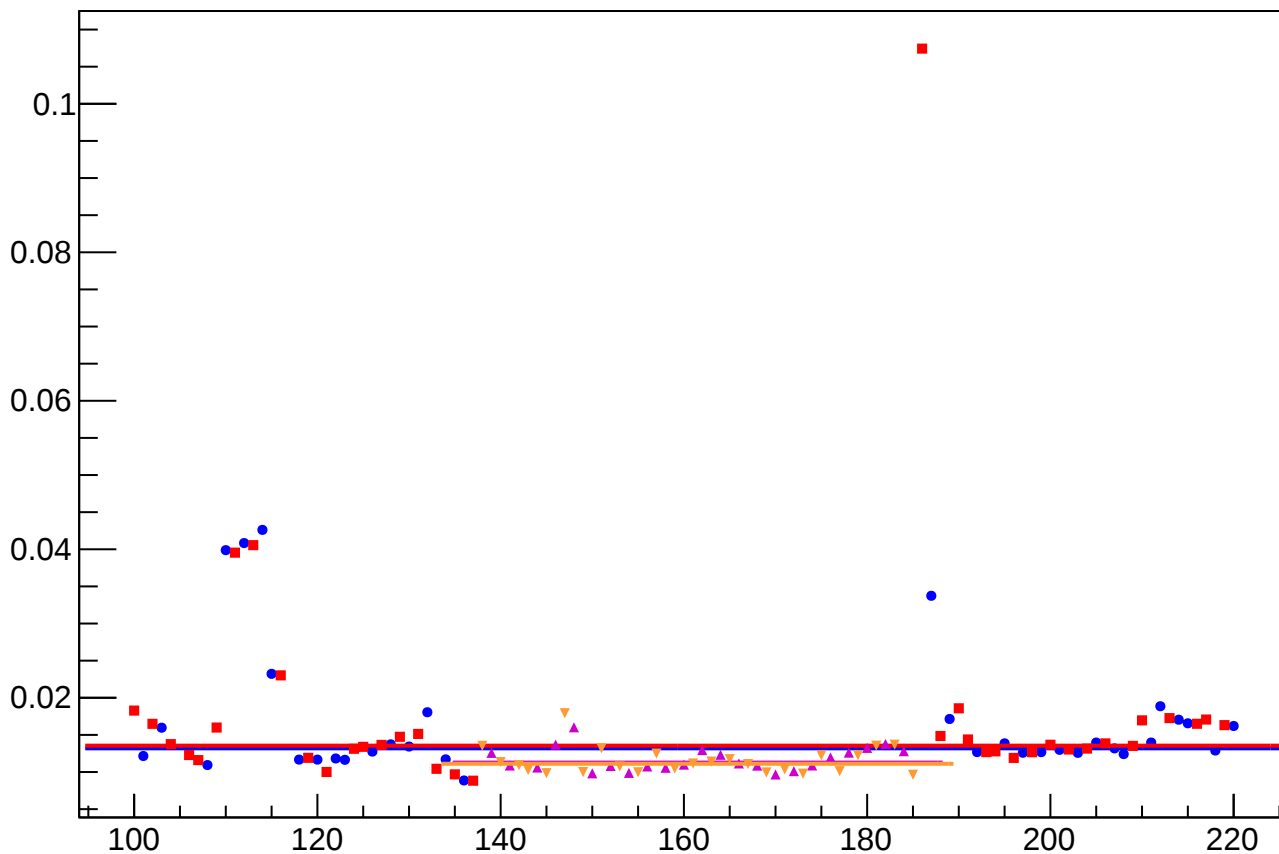
Right: 0.354+/-0.000 χ^2/NDF : 17234505954.3/70

In: 0.339+/-0.000 χ^2/NDF :8094863205.1/56

Out: 0.346+/-0.000 χ^2/NDF :9175678142.4/61

All: 0.343+/-0.000 χ^2/NDF : 17275487041.8/131

yield_bpm4eY_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 1880170.7/33

Left Out: 0.011+/-0.000 χ^2/NDF : 607532.0/24

Right Out: 0.014+/-0.000 χ^2/NDF : 2259849.5/36

Left In: 0.011+/-0.000 χ^2/NDF : 502455.5/22

Left: 0.011+/-0.000 χ^2/NDF : 1113465.5/47

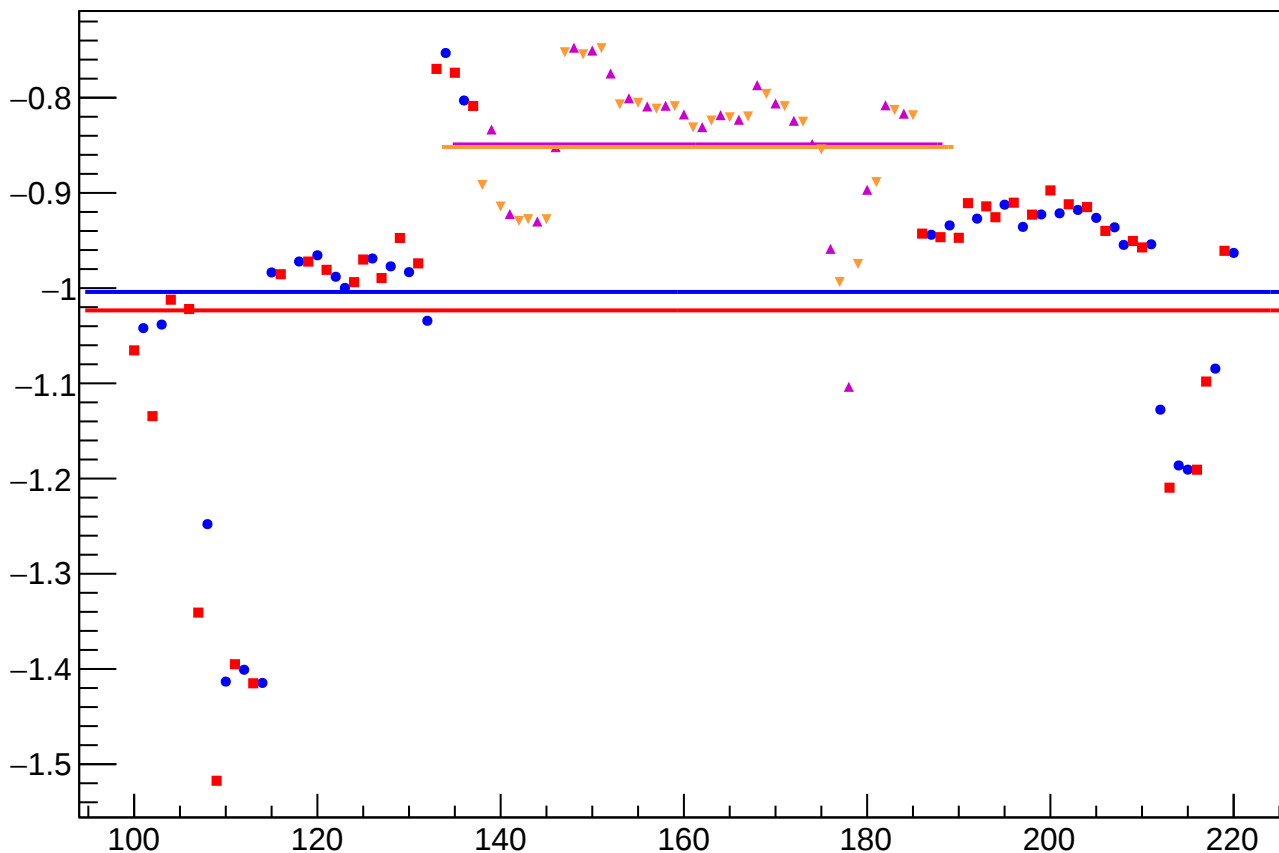
Right: 0.013+/-0.000 χ^2/NDF : 4152540.8/70

In: 0.012+/-0.000 χ^2/NDF : 2794606.5/56

Out: 0.012+/-0.000 χ^2/NDF : 3541760.7/61

All: 0.012+/-0.000 χ^2/NDF : 6336390.7/118

yield_bpm4acX_mean vs Slug, Sign Corrected



Right In: -1.004 $\pm$ 0.000 χ^2 /NDF: 429789625.8/33

Left Out: -0.852 $\pm$ 0.000 χ^2 /NDF:189103962.4/24

Right Out: -1.023 $\pm$ 0.000 χ^2 /NDF: 579307531.4/36

Left In: -0.849 $\pm$ 0.000 χ^2 /NDF:256391274.4/22

Left: -0.850 $\pm$ 0.000 χ^2 /NDF: 445636655.2/47

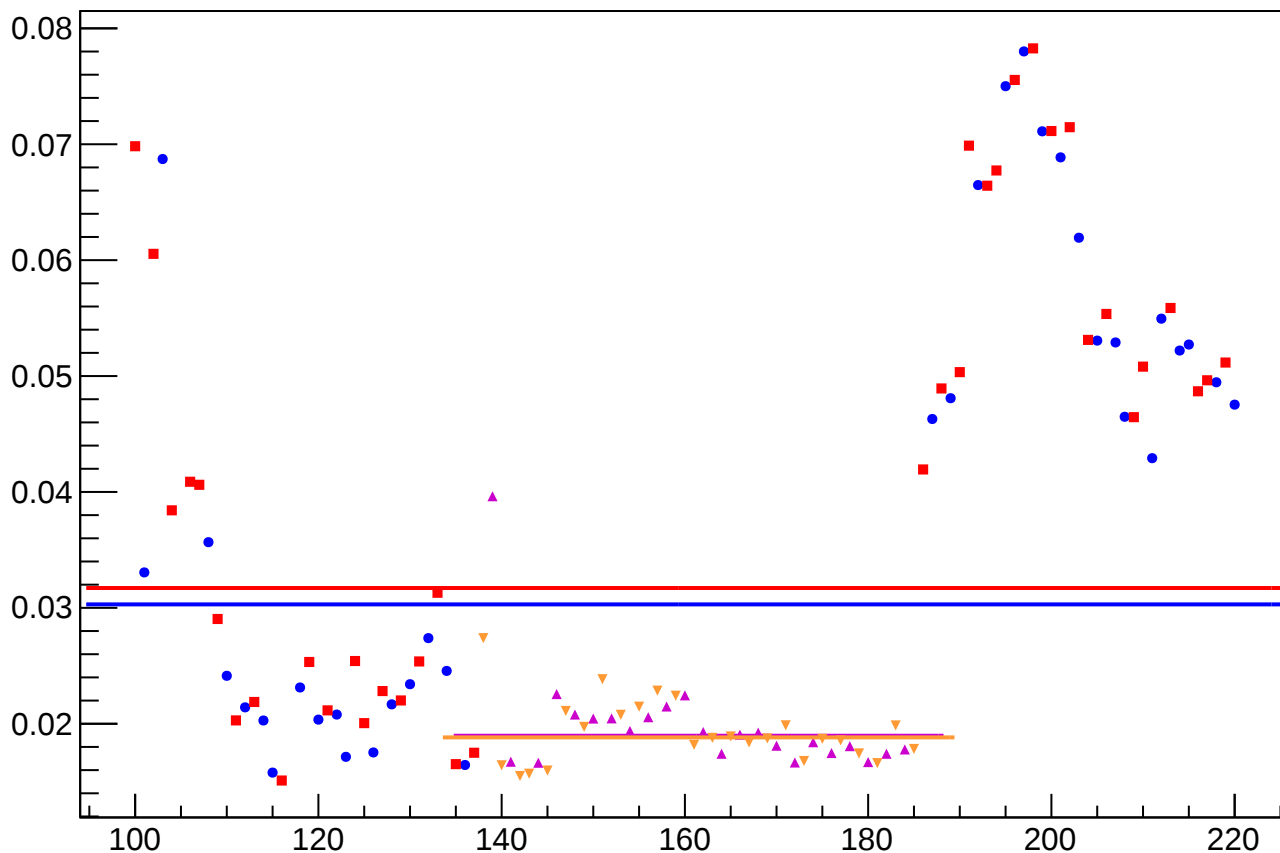
Right: -1.013 $\pm$ 0.000 χ^2 /NDF: 1011797820.0/70

In: -0.892 $\pm$ 0.000 χ^2 /NDF:942971143.0/56

Out: -0.895 $\pm$ 0.000 χ^2 /NDF:1077640234.3/61

All: -0.893 $\pm$ 0.000 χ^2 /NDF: 2020855305.1/111

yield_bpm4acX_rms vs Slug, Sign Corrected



Right In: 0.030 $\pm$ 0.000 χ^2/NDF : 7919486.8/33

Left Out: 0.019 $\pm$ 0.000 χ^2/NDF : 490509.4/24

Right Out: 0.032 $\pm$ 0.000 χ^2/NDF : 7729471.3/36

Left In: 0.019 $\pm$ 0.000 χ^2/NDF : 615173.8/22

Left: 0.019 $\pm$ 0.000 χ^2/NDF : 1106521.0/47

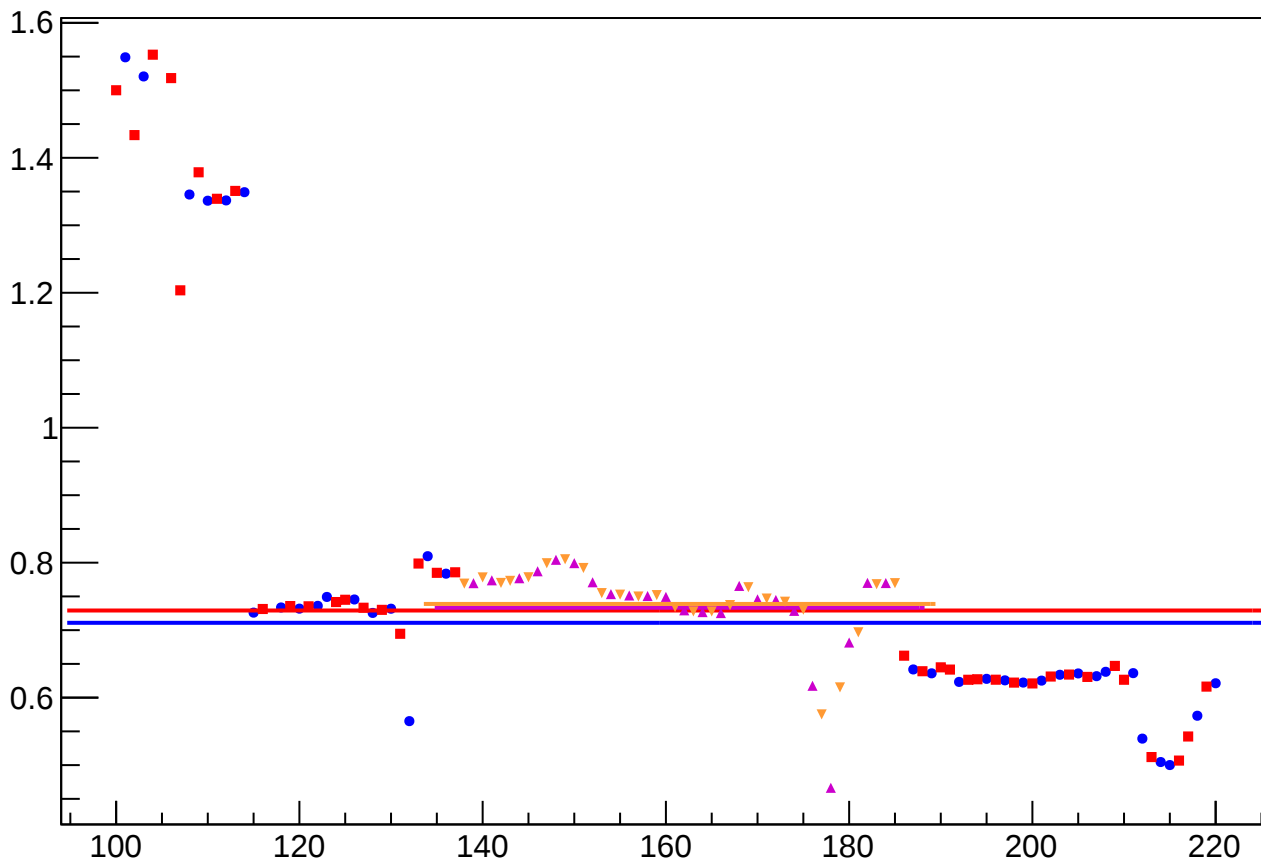
Right: 0.031 $\pm$ 0.000 χ^2/NDF : 15677705.8/70

In: 0.022 $\pm$ 0.000 χ^2/NDF : 11282621.2/56

Out: 0.022 $\pm$ 0.000 χ^2/NDF : 11707707.0/61

All: 0.022 $\pm$ 0.000 χ^2/NDF : 22990398.2/118

yield_bpm4acY_mean vs Slug, Sign Corrected



Right In: 0.711 $\pm$ 0.000 χ^2 /NDF: 3922947312.6/33

Left Out: 0.739 $\pm$ 0.000 χ^2 /NDF: 333013236.5/24

Right Out: 0.729 $\pm$ 0.000 χ^2 /NDF: 4219427503.1/36

Left In: 0.733 $\pm$ 0.000 χ^2 /NDF: 569611347.7/22

Left: 0.736 $\pm$ 0.000 χ^2 /NDF: 904456968.5/47

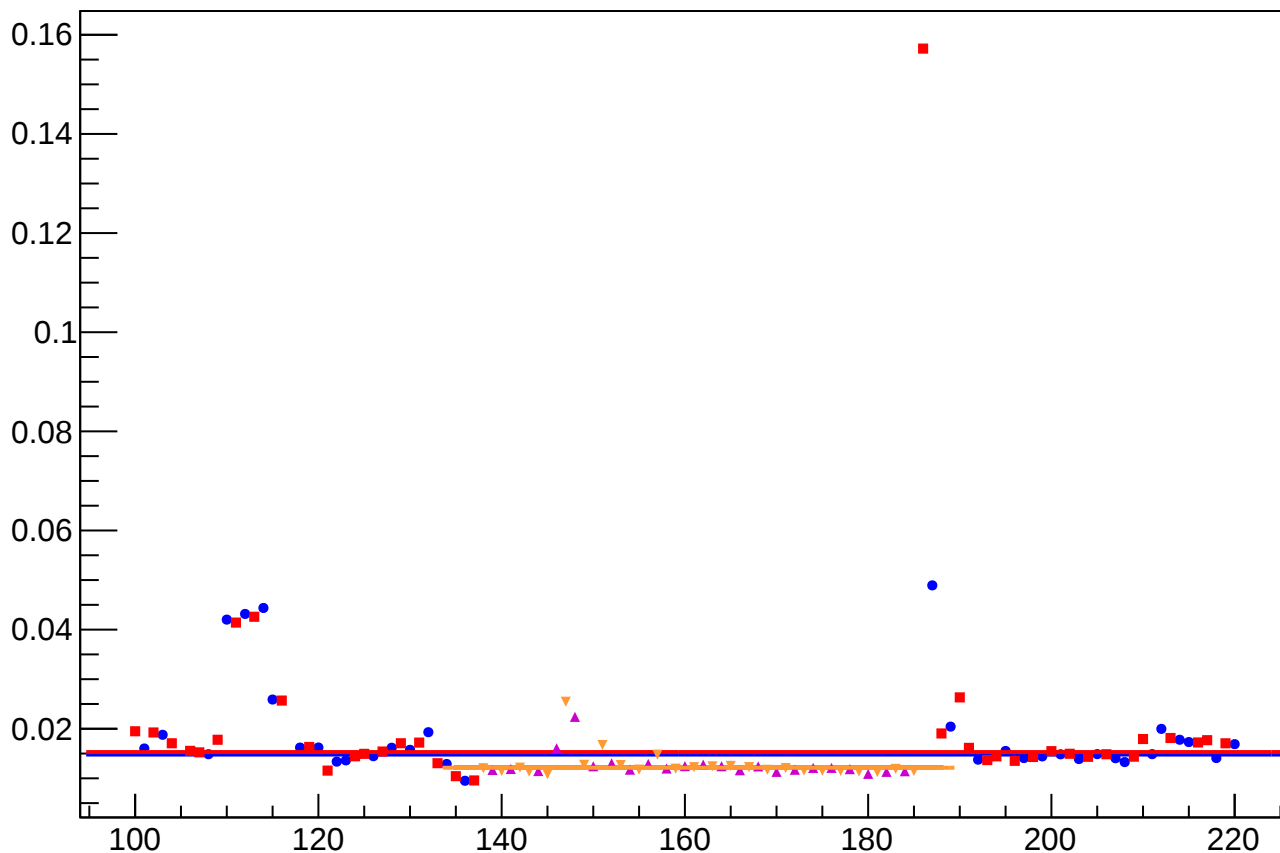
Right: 0.720 $\pm$ 0.000 χ^2 /NDF: 8155084584.0/70

In: 0.724 $\pm$ 0.000 χ^2 /NDF: 4515564533.6/56

Out: 0.735 $\pm$ 0.000 χ^2 /NDF: 4556781739.4/61

All: 0.730 $\pm$ 0.000 χ^2 /NDF: 9084126791.4/11

yield_bpm4acY_rms vs Slug, Sign Corrected



Right In: 0.015 ± 0.000 $\chi^2/\text{NDF}: 1863748.4/33$

Left Out: 0.012 ± 0.000 $\chi^2/\text{NDF}: 637986.2/24$

Right Out: 0.015 ± 0.000 $\chi^2/\text{NDF}: 2232824.3/36$

Left In: 0.012 ± 0.000 $\chi^2/\text{NDF}: 481830.1/22$

Left: 0.012 ± 0.000 $\chi^2/\text{NDF}: 1120125.6/47$

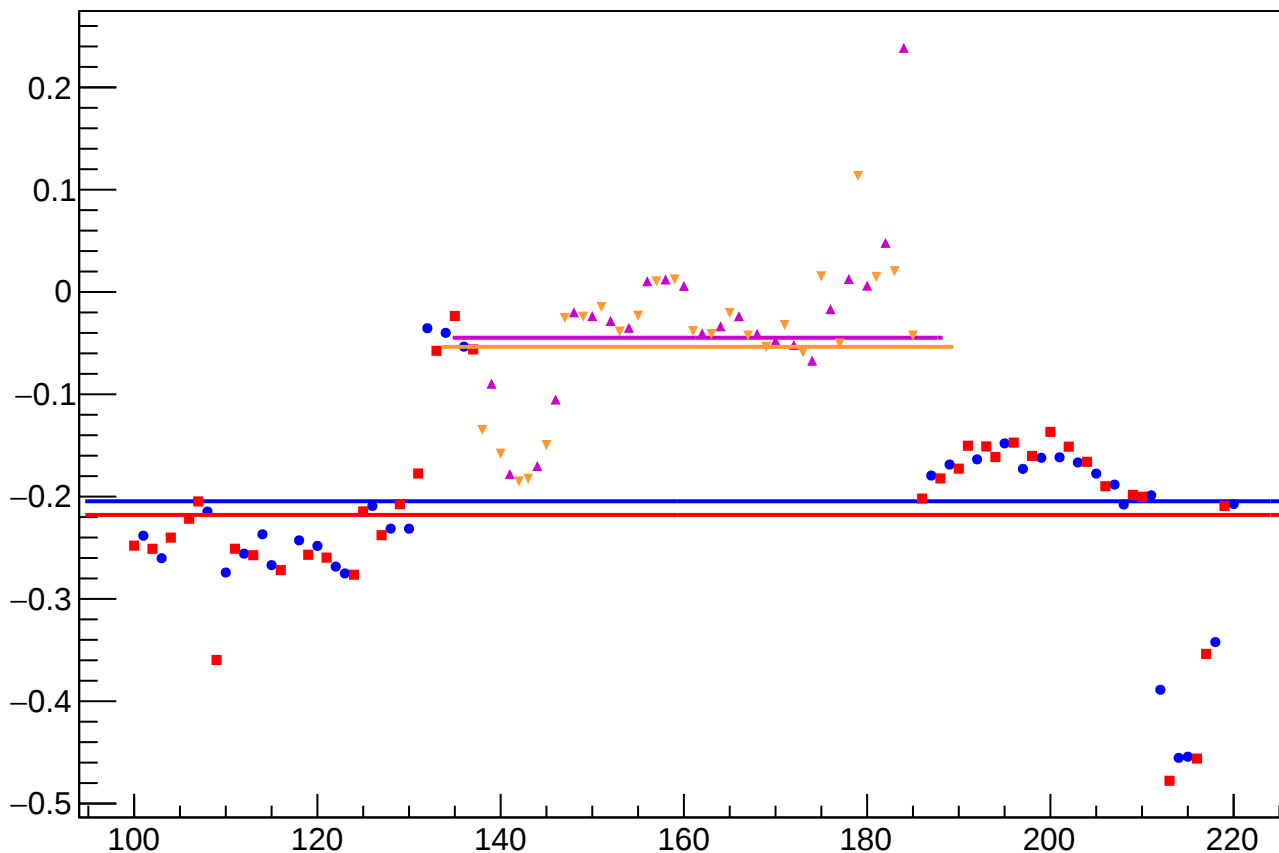
Right: 0.015 ± 0.000 $\chi^2/\text{NDF}: 4115812.1/70$

In: 0.013 ± 0.000 $\chi^2/\text{NDF}: 2972296.6/56$

Out: 0.013 ± 0.000 $\chi^2/\text{NDF}: 3787798.0/61$

All: 0.013 ± 0.000 $\chi^2/\text{NDF}: 6761718.2/118$

yield_bpm4ecX_mean vs Slug, Sign Corrected



Right In: -0.205 ± 0.000 $\chi^2/\text{NDF}: 160410619.7/33$

Left Out: -0.054 ± 0.000 $\chi^2/\text{NDF}: 167834173.6/24$

Right Out: -0.218 ± 0.000 $\chi^2/\text{NDF}: 156272040.9/36$

Left In: -0.045 ± 0.000 $\chi^2/\text{NDF}: 127192425.2/22$

Left: -0.049 ± 0.000 $\chi^2/\text{NDF}: 296566503.6/47$

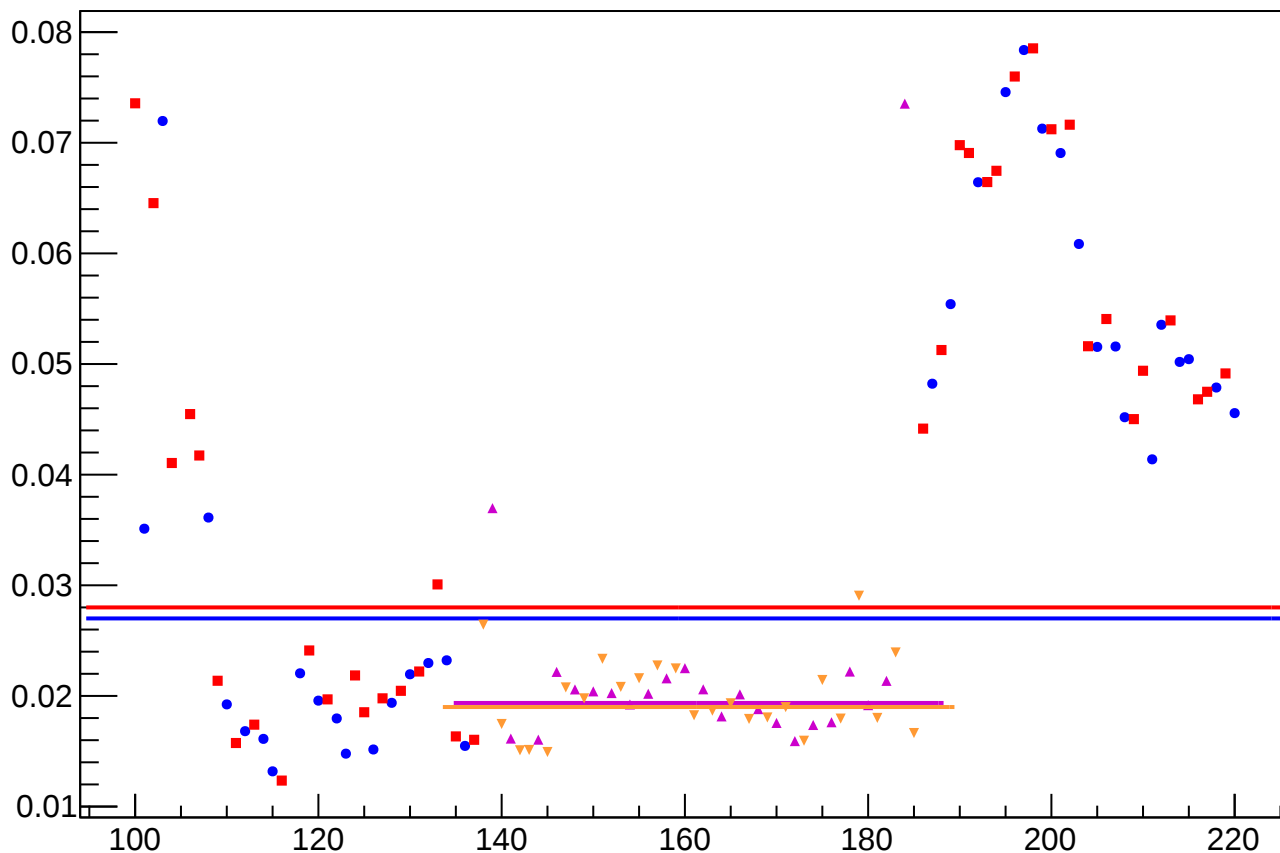
Right: -0.211 ± 0.000 $\chi^2/\text{NDF}: 318217456.0/70$

In: -0.096 ± 0.000 $\chi^2/\text{NDF}: 592680888.0/56$

Out: -0.102 ± 0.000 $\chi^2/\text{NDF}: 645012741.8/61$

All: -0.099 ± 0.000 $\chi^2/\text{NDF}: 1238547164.5/1$

yield_bpm4ecX_rms vs Slug, Sign Corrected



Right In: 0.027+/-0.000 χ^2/NDF : 9318335.1/33

Left Out: 0.019+/-0.000 χ^2/NDF : 700229.7/24

Right Out: 0.028+/-0.000 χ^2/NDF : 9516091.1/36

Left In: 0.019+/-0.000 χ^2/NDF : 858216.8/22

Left: 0.019+/-0.000 χ^2/NDF : 1563699.1/47

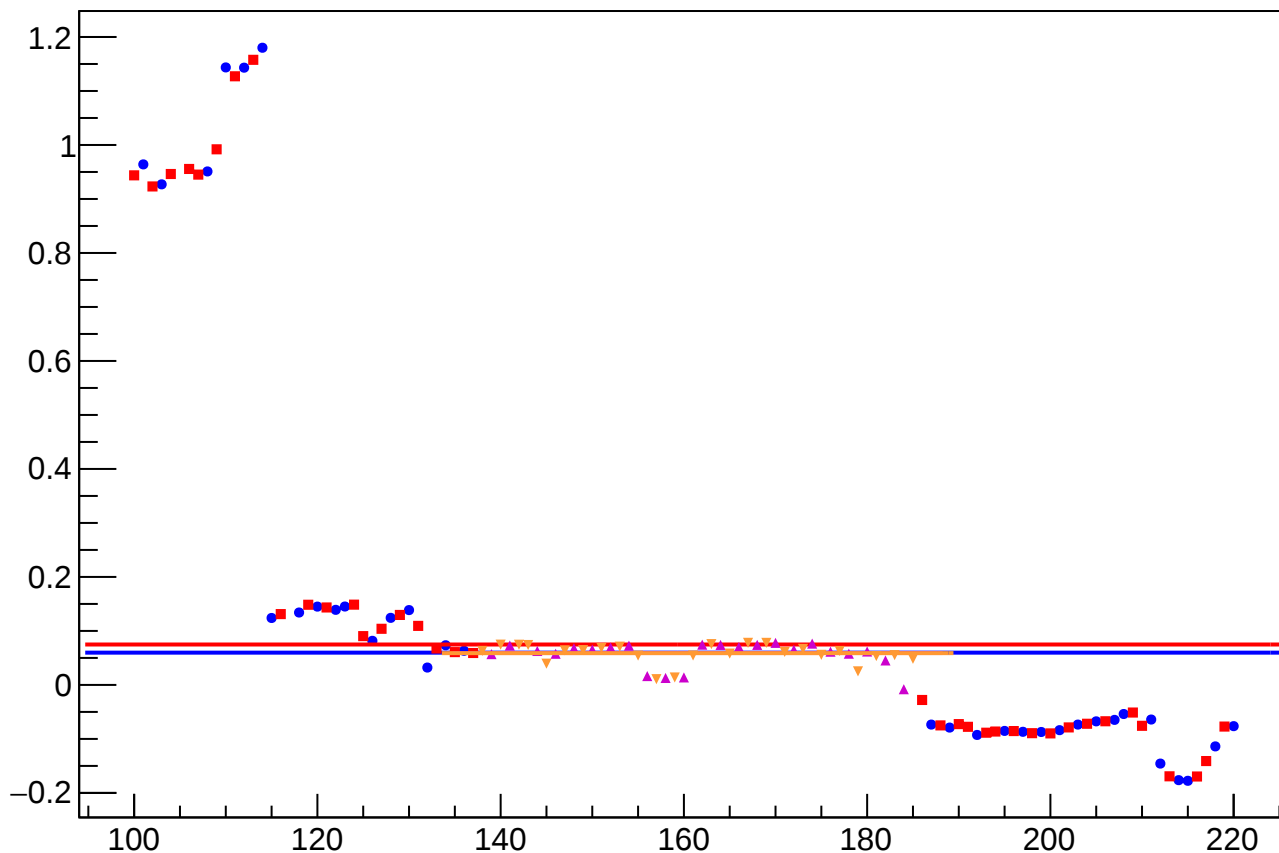
Right: 0.027+/-0.000 χ^2/NDF : 18851524.4/70

In: 0.022+/-0.000 χ^2/NDF : 11570604.3/56

Out: 0.022+/-0.000 χ^2/NDF : 12145356.7/61

All: 0.022+/-0.000 χ^2/NDF : 23718031.1/118

yield_bpm4ecY_mean vs Slug, Sign Corrected



Right In: 0.060 $\pm$ 0.000 χ^2 /NDF: 8847854211.3/33

Left Out: 0.059 $\pm$ 0.000 χ^2 /NDF: 46821236.8/24

Right Out: 0.075 $\pm$ 0.000 χ^2 /NDF: 9717241125.4/36

Left In: 0.059 $\pm$ 0.000 χ^2 /NDF: 58518655.0/22

Left: 0.059 $\pm$ 0.000 χ^2 /NDF: 105343775.2/47

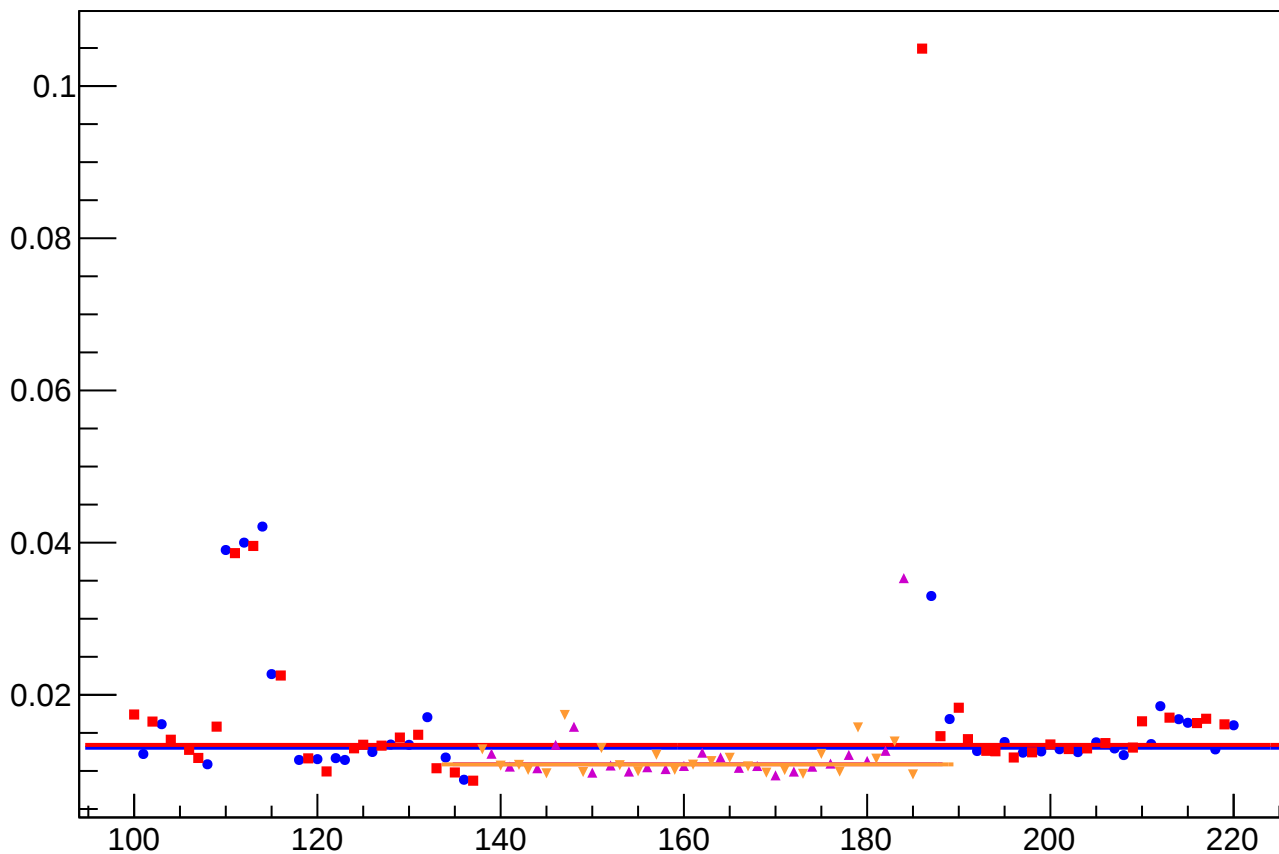
Right: 0.067 $\pm$ 0.000 χ^2 /NDF: 18576295819.1/70

In: 0.059 $\pm$ 0.000 χ^2 /NDF: 8906400079.2/56

Out: 0.065 $\pm$ 0.000 χ^2 /NDF: 9778853400.3/61

All: 0.062 $\pm$ 0.000 χ^2 /NDF: 18689395706.9/131

yield_bpm4ecY_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 1831620.3/33

Left Out: 0.011+/-0.000 χ^2/NDF : 604787.9/24

Right Out: 0.013+/-0.000 χ^2/NDF : 2197634.8/36

Left In: 0.011+/-0.000 χ^2/NDF : 530077.5/22

Left: 0.011+/-0.000 χ^2/NDF : 1134994.9/47

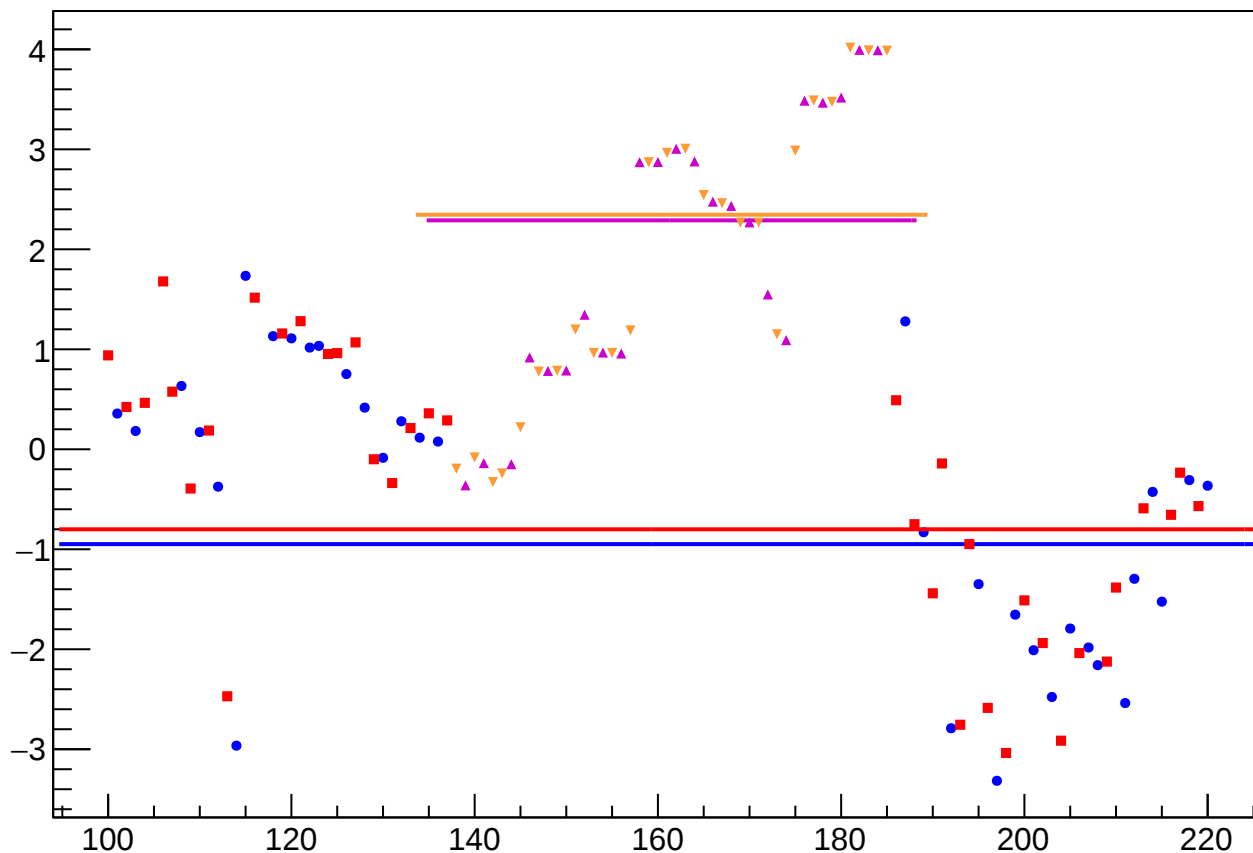
Right: 0.013+/-0.000 χ^2/NDF : 4042743.7/70

In: 0.012+/-0.000 χ^2/NDF : 2901394.0/56

Out: 0.012+/-0.000 χ^2/NDF : 3560227.3/61

All: 0.012+/-0.000 χ^2/NDF : 6463078.0/118

yield_bpm1X_mean vs Slug, Sign Corrected



Right In: -0.949 ± 0.000 $\chi^2/\text{NDF}: 8072024719.9/33$

Left Out: 2.346 ± 0.000 $\chi^2/\text{NDF}: 63481331015.4/24$

Right Out: -0.800 ± 0.000 $\chi^2/\text{NDF}: 8309160244.9/36$

Left In: 2.290 ± 0.000 $\chi^2/\text{NDF}: 60875537647.3/22$

Left: 2.318 ± 0.000 $\chi^2/\text{NDF}: 124438674298.4/47$

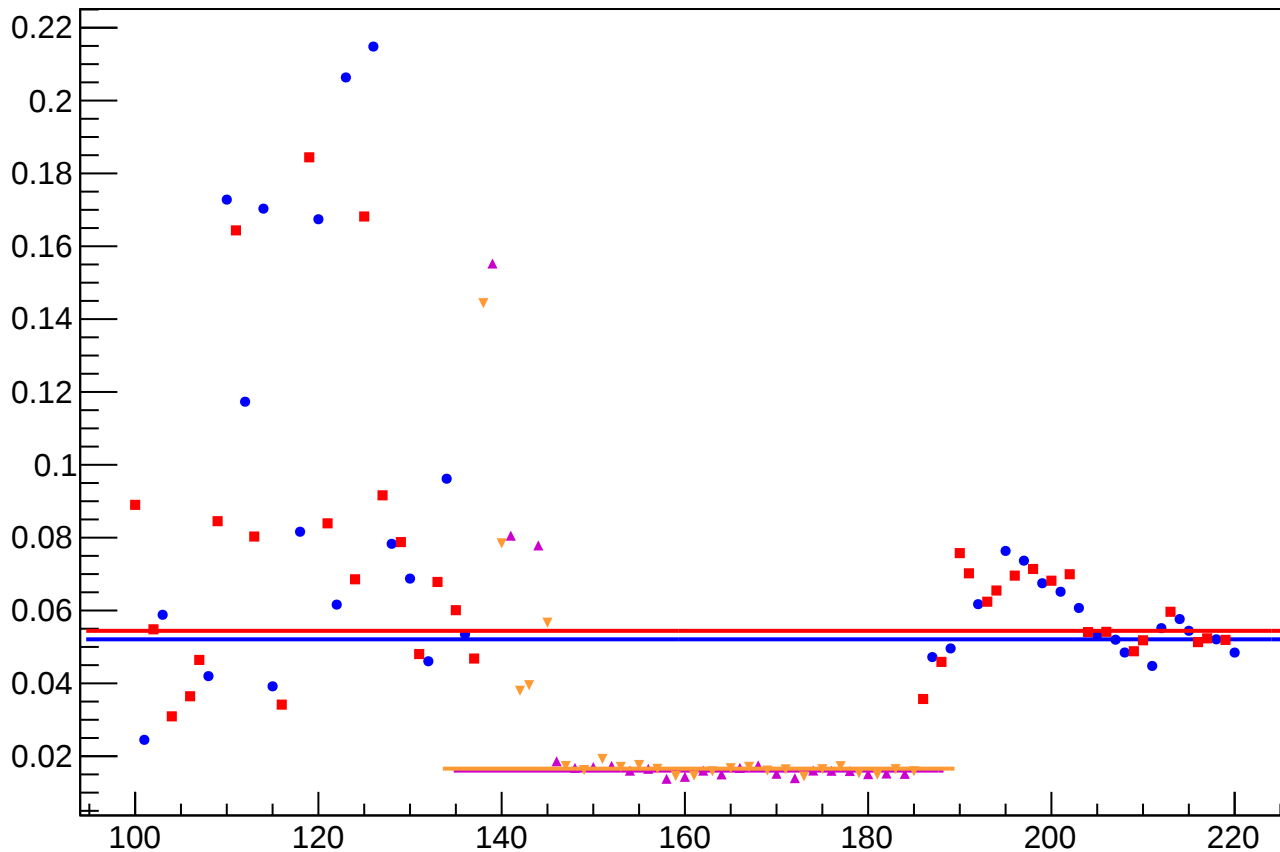
Right: -0.876 ± 0.000 $\chi^2/\text{NDF}: 16439987306.5/70$

In: 1.980 ± 0.000 $\chi^2/\text{NDF}: 120812423078.0/56$

Out: 2.052 ± 0.000 $\chi^2/\text{NDF}: 118923311389.6/61$

All: 2.016 ± 0.000 $\chi^2/\text{NDF}: 239880219567.9$

yield_bpm1X_rms vs Slug, Sign Corrected



Right In: 0.052 $\pm$ 0.000 χ^2 /NDF: 3575804.5/33

Left Out: 0.017 $\pm$ 0.000 χ^2 /NDF:2621162.1/24

Right Out: 0.054 $\pm$ 0.000 χ^2 /NDF: 2885579.8/36

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

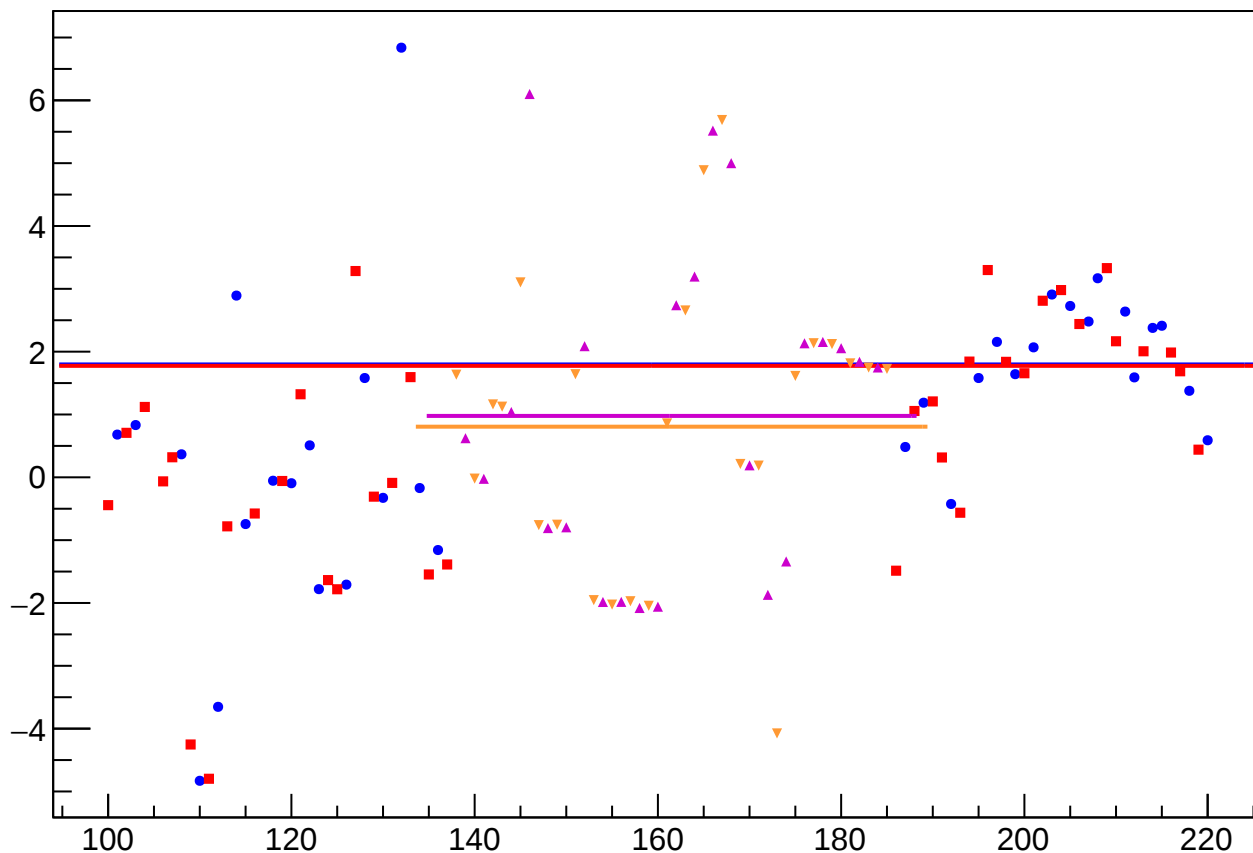
Right: 0.053 $\pm$ 0.000 χ^2 /NDF: 6490552.9/70

In: 0.019 $\pm$ 0.000 χ^2 /NDF:18819978.3/56

Out: 0.020 $\pm$ 0.000 χ^2 /NDF:19137200.9/61

All: 0.020 $\pm$ 0.000 χ^2 /NDF: 37980086.2/118

yield_bpm1Y_mean vs Slug, Sign Corrected



Right In: 1.796+/-0.000

χ^2/NDF : 43718239139.8/33

Left: 0.892+/-0.000

χ^2/NDF : 1077036497291.8/47

Left Out: 0.806+/-0.000

χ^2/NDF : 507578952196.2/24

Right: 1.786+/-0.000

χ^2/NDF : 87671313856.9/70

Right Out: 1.774+/-0.000

χ^2/NDF : 43944550116.7/36

In: 1.220+/-0.000

χ^2/NDF : 628862467727.3/56

Left In: 0.977+/-0.000

χ^2/NDF : 568209676597.4/22

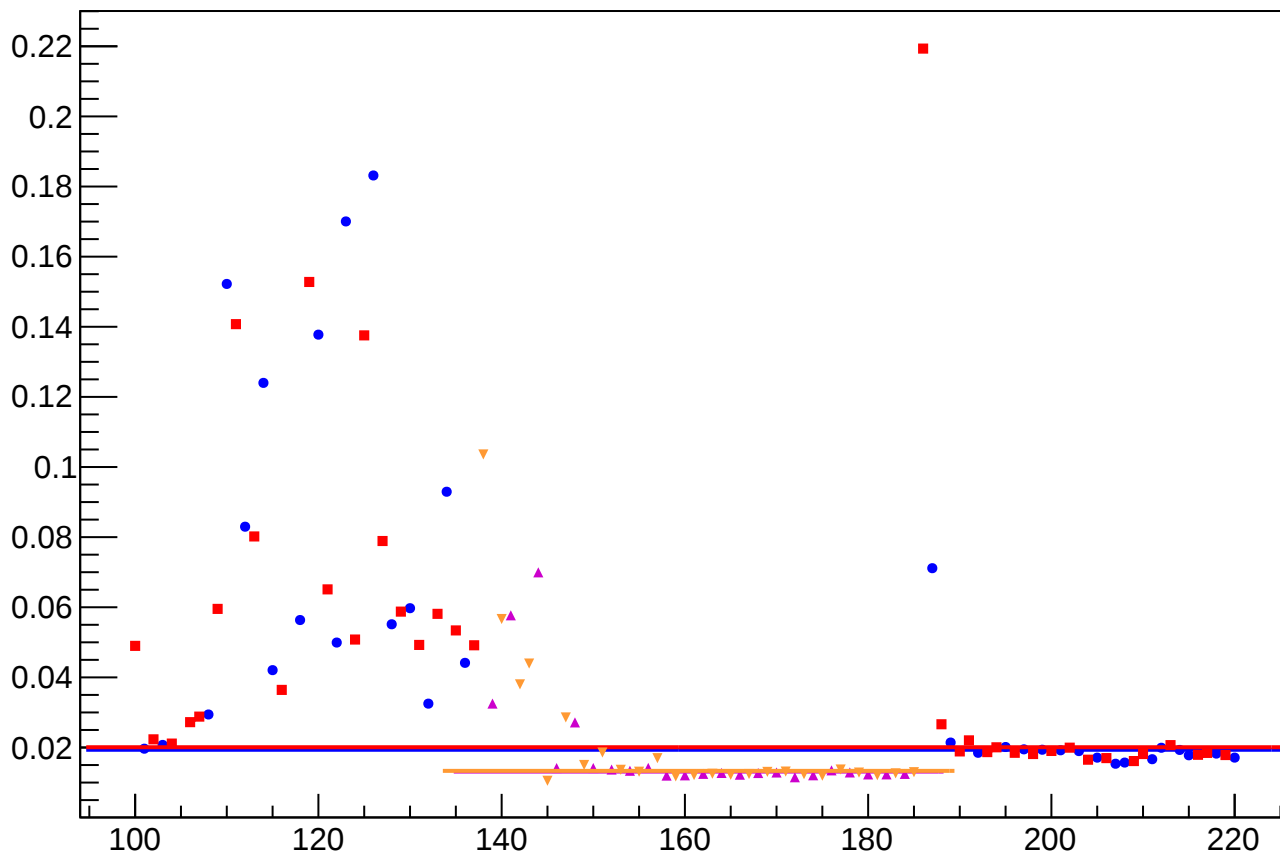
Out: 1.082+/-0.000

χ^2/NDF : 574216526763.3/61

All: 1.152+/-0.000

χ^2/NDF : 1204224139255.0/100

yield_bpm1Y_rms vs Slug, Sign Corrected



Right In: 0.019+/-0.000 χ^2/NDF : 4242043.4/33

Left Out: 0.013+/-0.000 χ^2/NDF : 2829753.9/24

Right Out: 0.020+/-0.000 χ^2/NDF : 5227698.8/36

Left In: 0.013+/-0.000 χ^2/NDF : 1946693.6/22

Left: 0.013+/-0.000 χ^2/NDF : 4779900.3/47

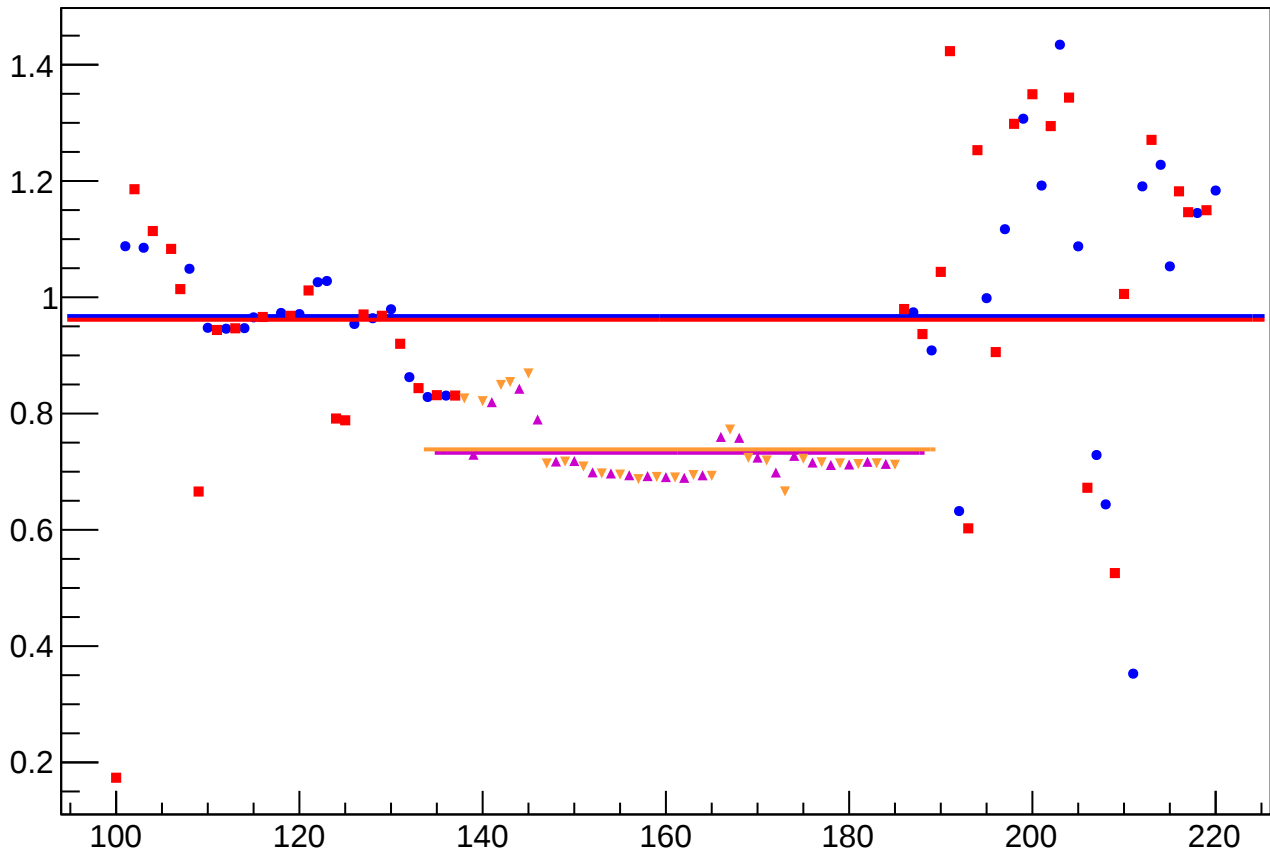
Right: 0.020+/-0.000 χ^2/NDF : 9487904.8/70

In: 0.015+/-0.000 χ^2/NDF : 8140481.0/56

Out: 0.015+/-0.000 χ^2/NDF : 10254921.5/61

All: 0.015+/-0.000 χ^2/NDF : 18404688.8/118

yield_bpm11X_mean vs Slug, Sign Corrected



Right In: 0.968+/-0.000 χ^2/NDF : 1079130420.1/33

Left Out: 0.738+/-0.000 χ^2/NDF : 310195180.4/24

Right Out: 0.961+/-0.000 χ^2/NDF : 1319585988.8/36

Left In: 0.733+/-0.000 χ^2/NDF : 170102394.7/22

Left: 0.736+/-0.000 χ^2/NDF : 481708989.2/47

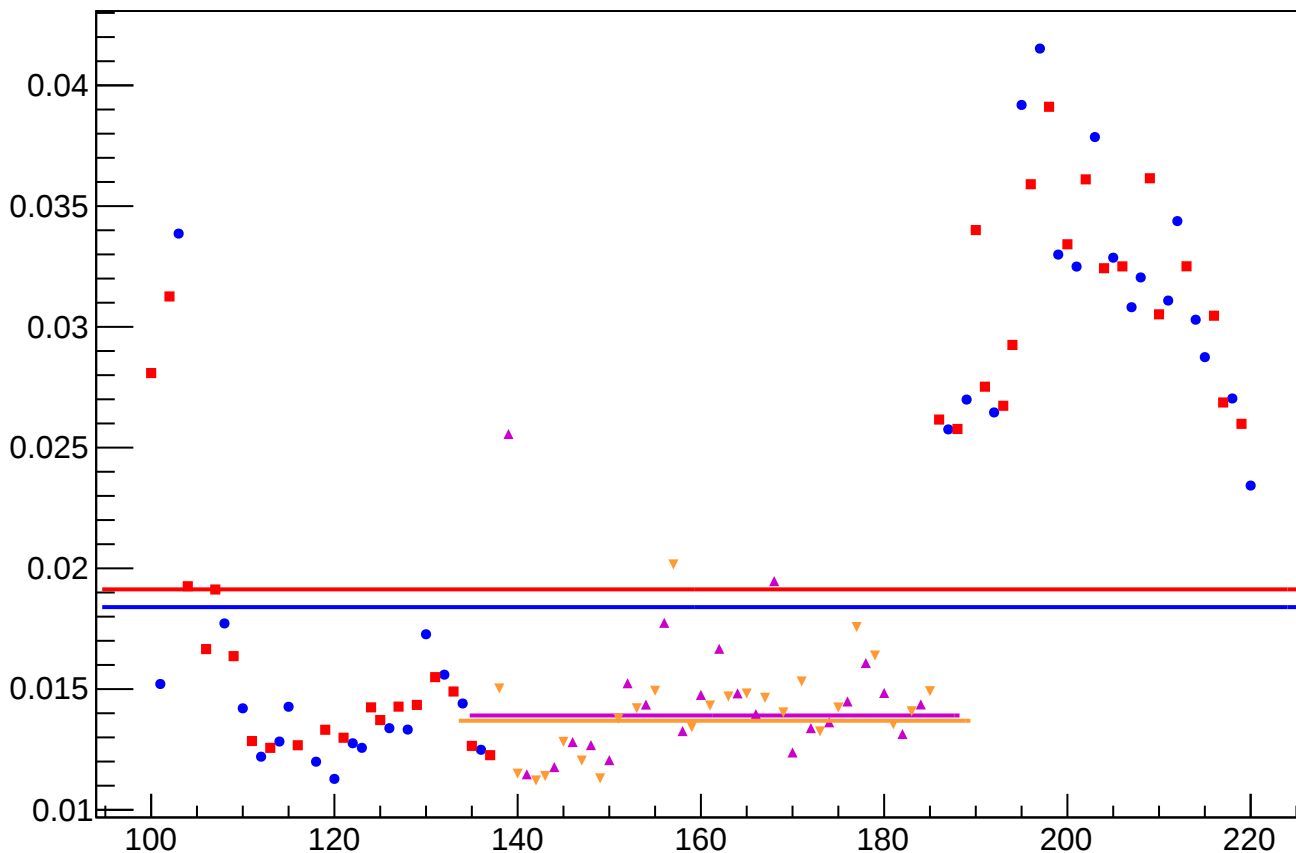
Right: 0.965+/-0.000 χ^2/NDF : 2399559286.5/70

In: 0.815+/-0.000 χ^2/NDF : 2792838969.4/56

Out: 0.811+/-0.000 χ^2/NDF : 3029159800.1/61

All: 0.813+/-0.000 χ^2/NDF : 5822851187.6/11

yield_bpm11X_rms vs Slug, Sign Corrected



Right In: 0.018+/-0.000 χ^2/NDF : 5826071.4/33

Left Out: 0.014+/-0.000 χ^2/NDF : 528480.6/24

Right Out: 0.019+/-0.000 χ^2/NDF : 5227084.3/36

Left In: 0.014+/-0.000 χ^2/NDF : 768161.9/22

Left: 0.014+/-0.000 χ^2/NDF : 1300553.4/47

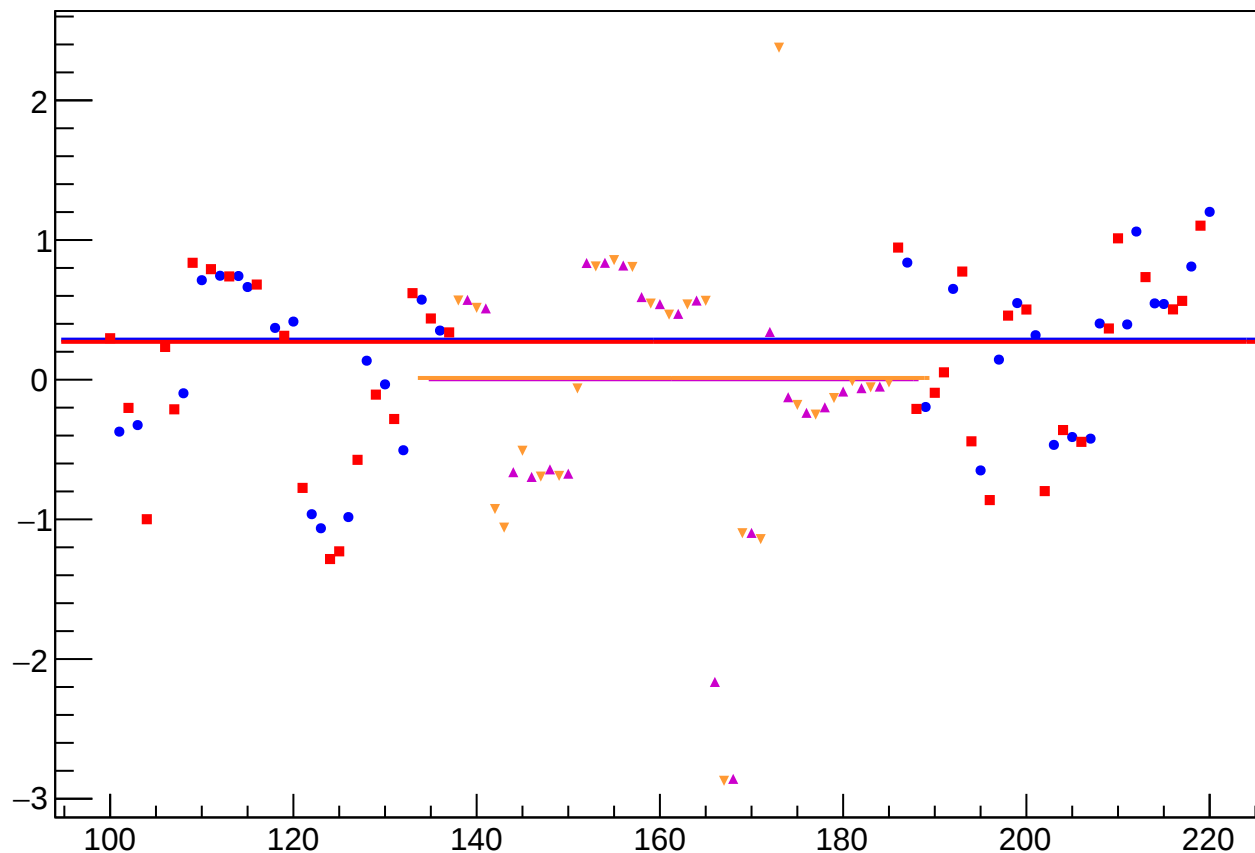
Right: 0.019+/-0.000 χ^2/NDF : 11076025.1/70

In: 0.015+/-0.000 χ^2/NDF : 7719070.5/56

Out: 0.015+/-0.000 χ^2/NDF : 7421453.1/61

All: 0.015+/-0.000 χ^2/NDF : 15140544.3/118

yield_bpm11Y_mean vs Slug, Sign Corrected



Right In: 0.287+/-0.000

χ^2/NDF : 43919873982.5/33

Left: 0.008+/-0.000

χ^2/NDF : 175214894006.3/47

Left Out: 0.012+/-0.000

χ^2/NDF : 96383858927.1/24

Right: 0.279+/-0.000

χ^2/NDF : 94234210037.7/70

Right Out: 0.271+/-0.000

χ^2/NDF : 50298322884.8/36

In: 0.161+/-0.000

χ^2/NDF : 127425560681.1/56

Out: 0.151+/-0.000

χ^2/NDF : 150609137315.1/61

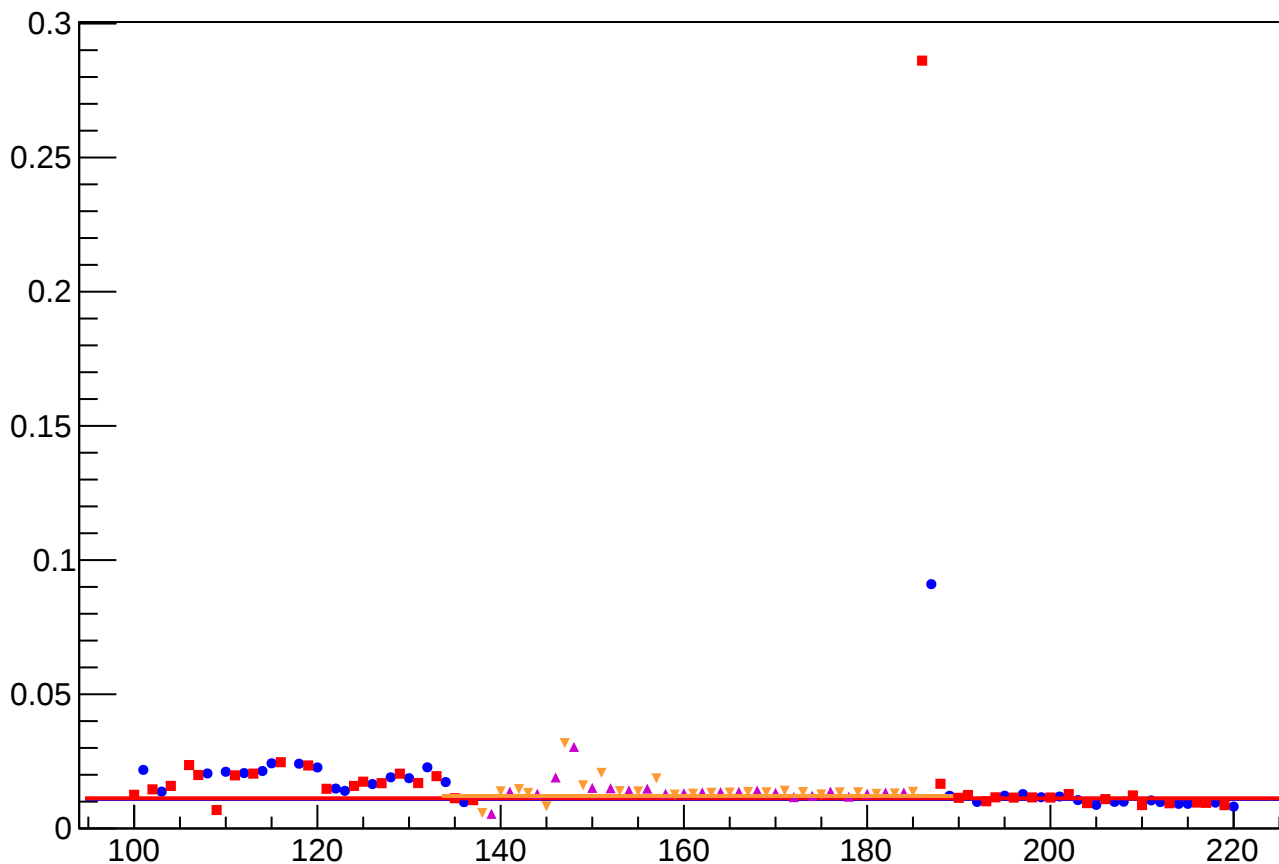
Left In: 0.003+/-0.000

χ^2/NDF : 78826489573.0/22

All: 0.156+/-0.000

χ^2/NDF : 278045332260.4

yield_bpm11Y_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 2850915.7/33

Left Out: 0.012+/-0.000 χ^2/NDF :3105238.9/24

Right Out: 0.011+/-0.000 χ^2/NDF : 3226961.1/36

Left In: 0.012+/-0.000 χ^2/NDF :3003502.9/22

Left: 0.012+/-0.000 χ^2/NDF : 6110012.2/47

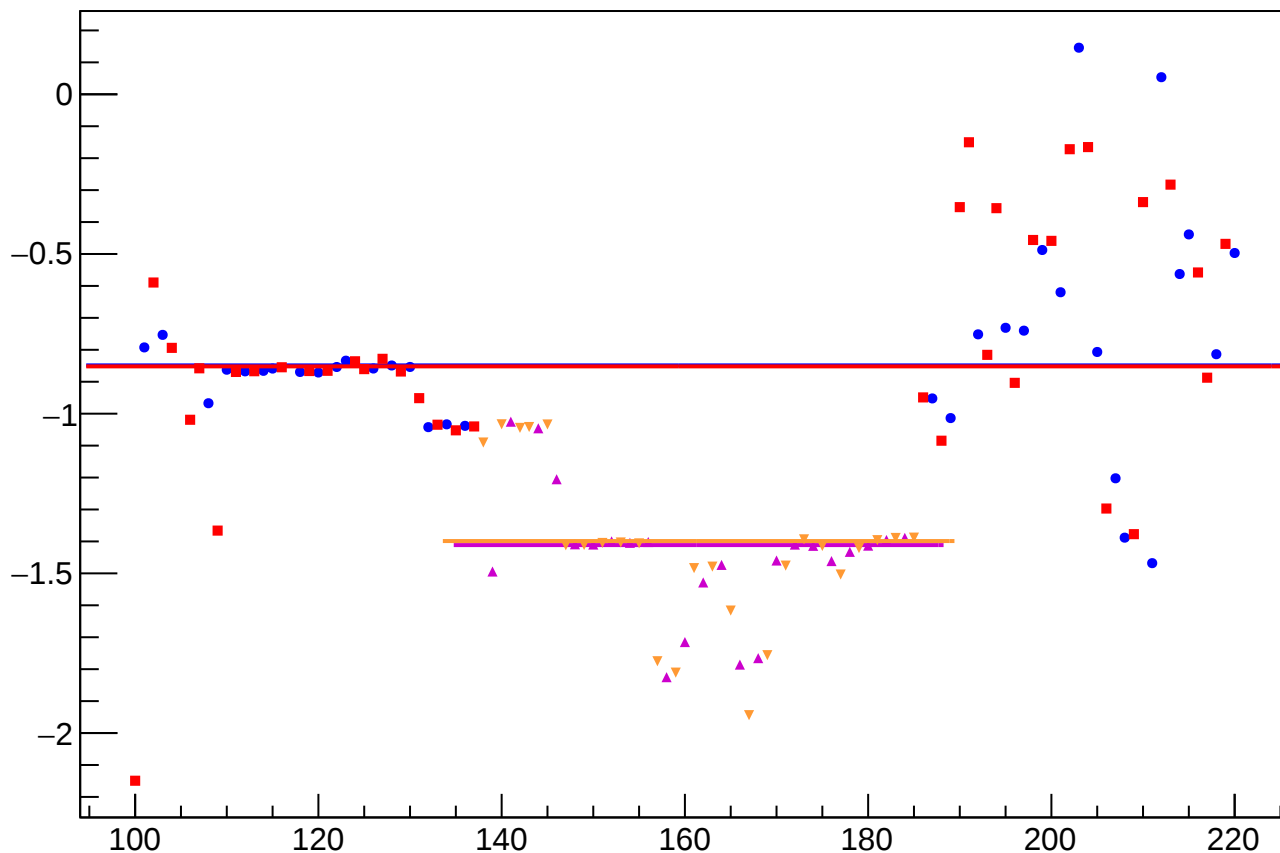
Right: 0.011+/-0.000 χ^2/NDF : 6085250.3/70

In: 0.011+/-0.000 χ^2/NDF :5971884.4/56

Out: 0.012+/-0.000 χ^2/NDF :6422023.7/61

All: 0.012+/-0.000 χ^2/NDF : 12403127.7/118

yield_bpm12X_mean vs Slug, Sign Corrected



Right In: -0.849 ± 0.000 $\chi^2/\text{NDF}: 398051073.3/33$

Left Out: -1.399 ± 0.000 $\chi^2/\text{NDF}: 738251911.1/24$

Right Out: -0.852 ± 0.000 $\chi^2/\text{NDF}: 517874996.1/36$

Left In: -1.411 ± 0.000 $\chi^2/\text{NDF}: 512547995.0/22$

Left: -1.405 ± 0.000 $\chi^2/\text{NDF}: 1251791467.1/47$

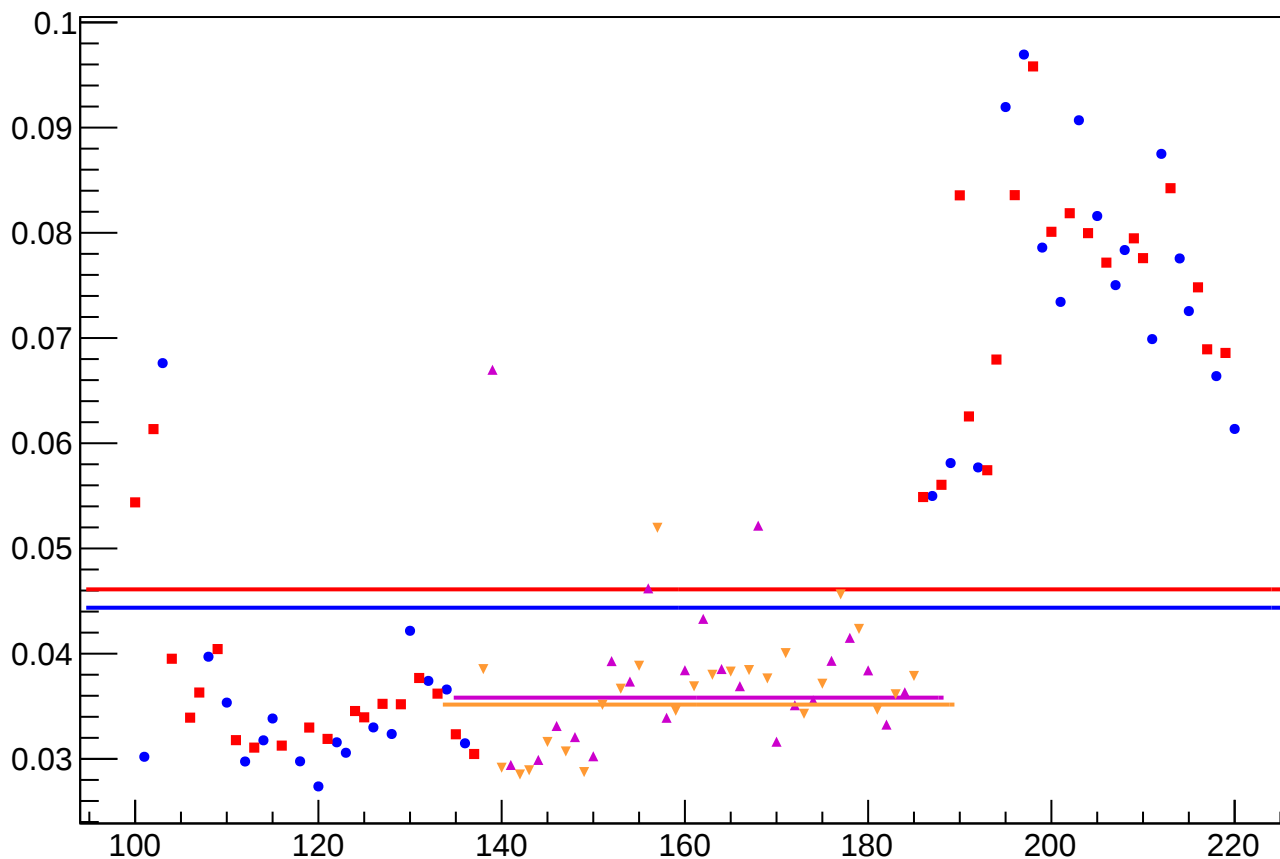
Right: -0.850 ± 0.000 $\chi^2/\text{NDF}: 915962147.5/70$

In: -1.194 ± 0.000 $\chi^2/\text{NDF}: 2367781852.8/56$

Out: -1.202 ± 0.000 $\chi^2/\text{NDF}: 2651536497.0/61$

All: -1.198 ± 0.000 $\chi^2/\text{NDF}: 5019972008.7/1$

yield_bpm12X_rms vs Slug, Sign Corrected



Right In: 0.044+/-0.000 χ^2/NDF : 5694140.2/33

Left Out: 0.035+/-0.000 χ^2/NDF : 595219.5/24

Right Out: 0.046+/-0.000 χ^2/NDF : 4905955.3/36

Left In: 0.036+/-0.000 χ^2/NDF : 864147.6/22

Left: 0.035+/-0.000 χ^2/NDF : 1464751.5/47

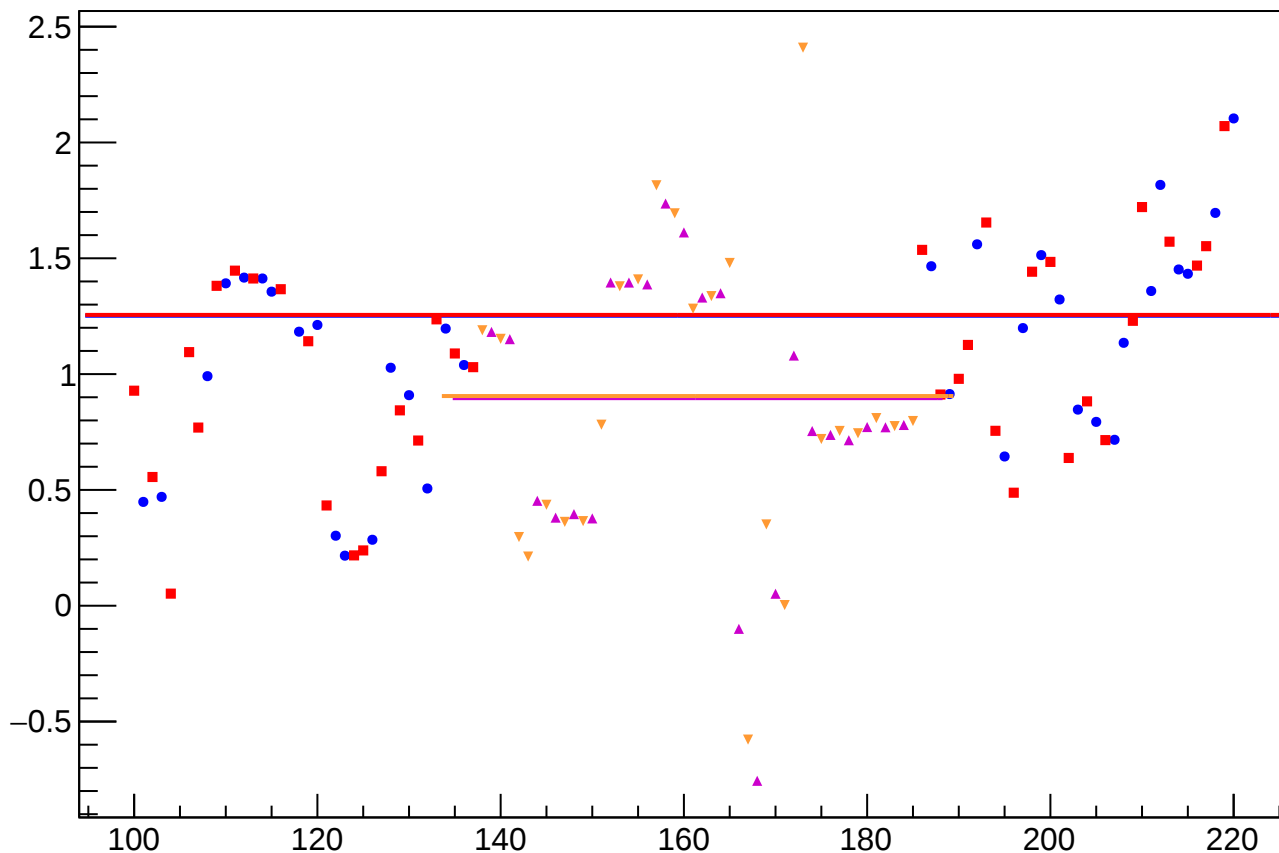
Right: 0.045+/-0.000 χ^2/NDF : 10622577.8/70

In: 0.039+/-0.000 χ^2/NDF : 7230911.6/56

Out: 0.039+/-0.000 χ^2/NDF : 6620009.0/61

All: 0.039+/-0.000 χ^2/NDF : 13850931.4/118

yield_bpm12Y_mean vs Slug, Sign Corrected



Right In: 1.252 $\pm$ 0.000

χ^2 /NDF: 73424795371.3/33

Left: 0.901 $\pm$ 0.000

χ^2 /NDF: 150868618084.6/47

Left Out: 0.905 $\pm$ 0.000

χ^2 /NDF: 84265726513.8/24

Right: 1.254 $\pm$ 0.000

χ^2 /NDF: 145051439893.0/70

Right Out: 1.256 $\pm$ 0.000

χ^2 /NDF: 71624433534.9/36

In: 1.123 $\pm$ 0.000

χ^2 /NDF: 156579069178.3/56

Out: 1.114 $\pm$ 0.000

χ^2 /NDF: 171850934873.0/61

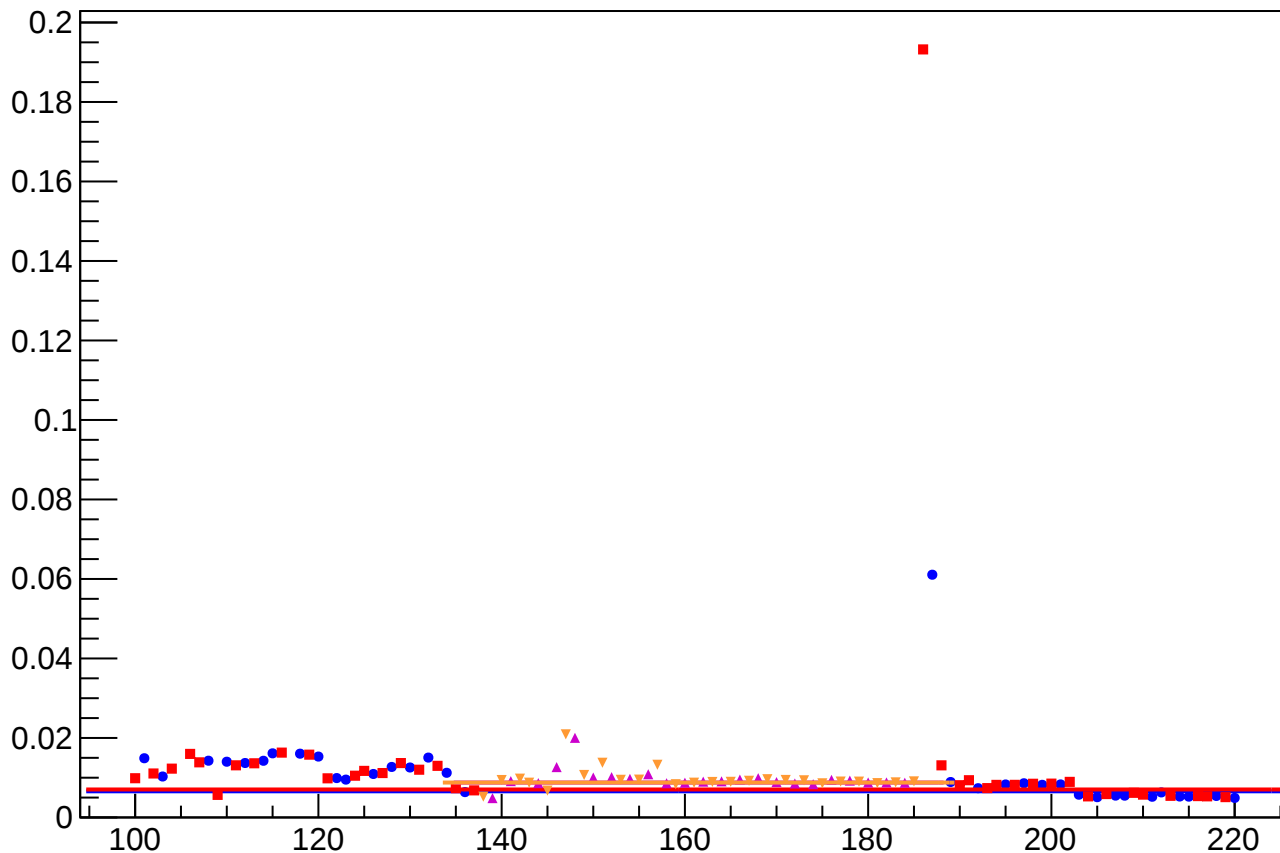
Left In: 0.896 $\pm$ 0.000

χ^2 /NDF: 66594200889.6/22

All: 1.119 $\pm$ 0.000

χ^2 /NDF: 328457563467.2

yield_bpm12Y_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 4029673.5/33

Left Out: 0.009+/-0.000 χ^2/NDF :1697568.1/24

Right Out: 0.007+/-0.000 χ^2/NDF : 4325200.1/36

Left In: 0.009+/-0.000 χ^2/NDF :1607939.0/22

Left: 0.009+/-0.000 χ^2/NDF : 3305514.2/47

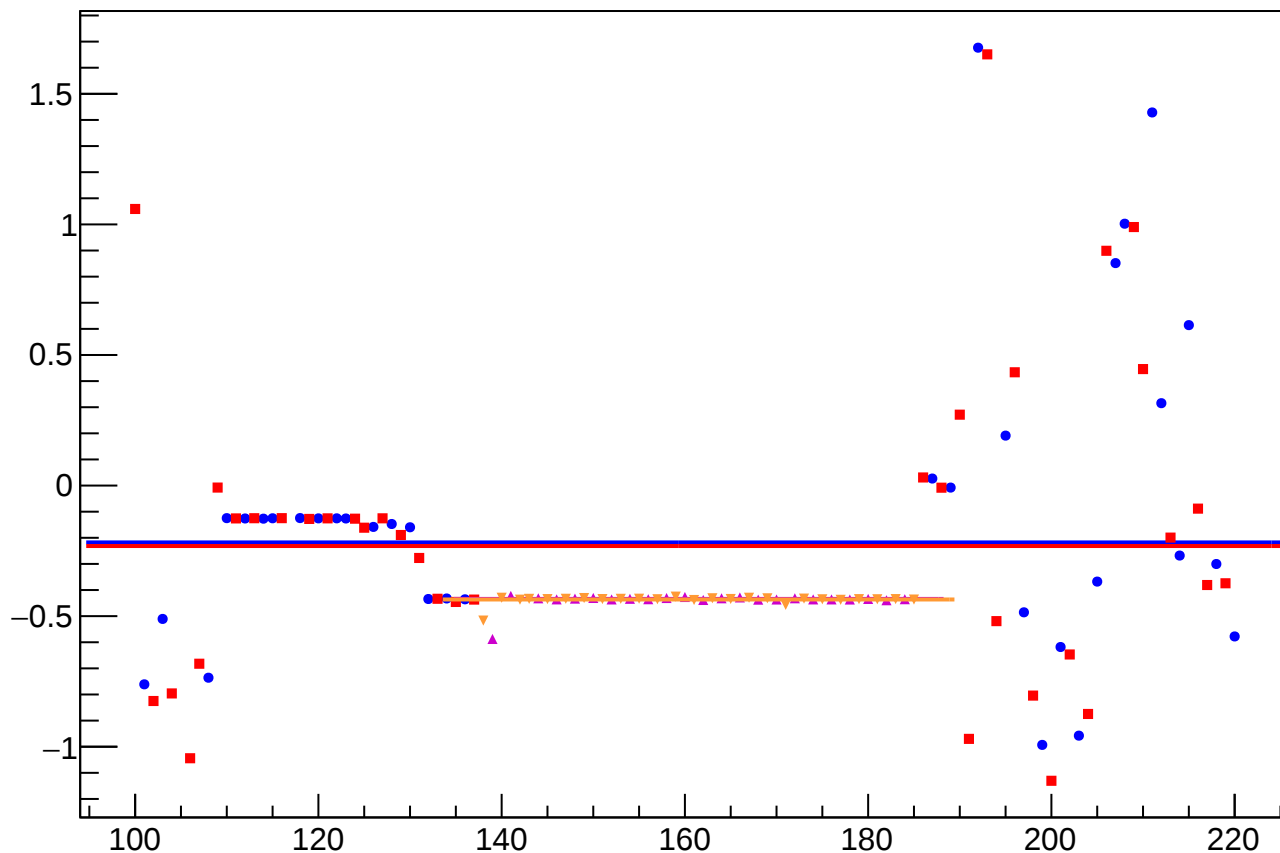
Right: 0.007+/-0.000 χ^2/NDF : 8426468.8/70

In: 0.007+/-0.000 χ^2/NDF :6896634.4/56

Out: 0.008+/-0.000 χ^2/NDF :6810840.6/61

All: 0.008+/-0.000 χ^2/NDF : 13784190.4/118

yield_bpm16X_mean vs Slug, Sign Corrected



Right In: -0.218 $\pm$ 0.000 χ^2 /NDF: 5044667349.7/33

Left Out: -0.436 $\pm$ 0.000 χ^2 /NDF: 28774660.0/24

Right Out: -0.232 $\pm$ 0.000 χ^2 /NDF: 3442822640.7/36

Left In: -0.434 $\pm$ 0.000 χ^2 /NDF: 23984173.0/22

Left: -0.435 $\pm$ 0.000 χ^2 /NDF: 53122221.7/47

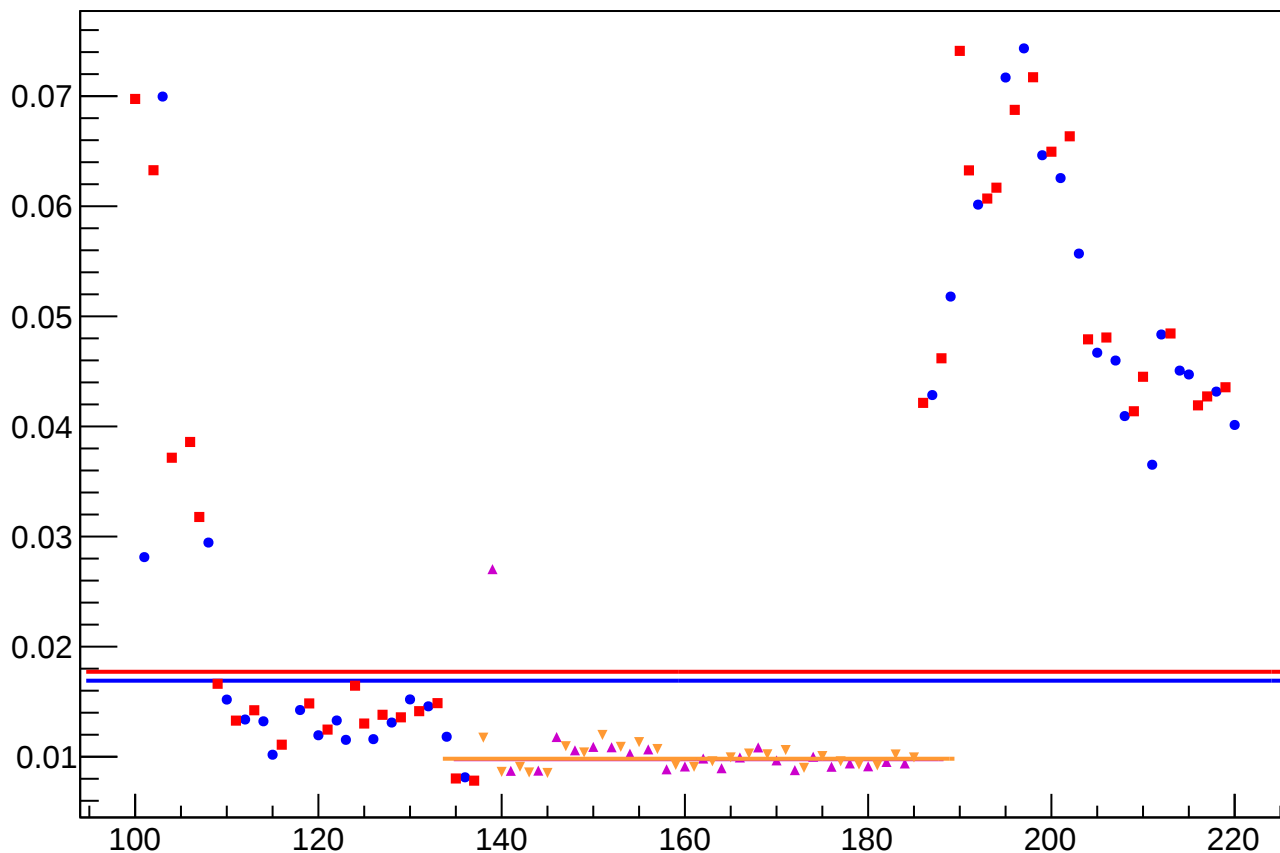
Right: -0.224 $\pm$ 0.000 χ^2 /NDF: 8490875031.6/70

In: -0.392 $\pm$ 0.000 χ^2 /NDF: 6458148915.3/56

Out: -0.400 $\pm$ 0.000 χ^2 /NDF: 4661569008.9/61

All: -0.396 $\pm$ 0.000 χ^2 /NDF: 11126607345.3/118

yield_bpm16X_rms vs Slug, Sign Corrected



Right In: 0.017+/-0.000 χ^2/NDF : 13627631.6/33

Left Out: 0.010+/-0.000 χ^2/NDF :269242.6/24

Right Out: 0.018+/-0.000 χ^2/NDF : 13827454.5/36

Left In: 0.010+/-0.000 χ^2/NDF :747550.0/22

Left: 0.010+/-0.000 χ^2/NDF : 1017115.3/47

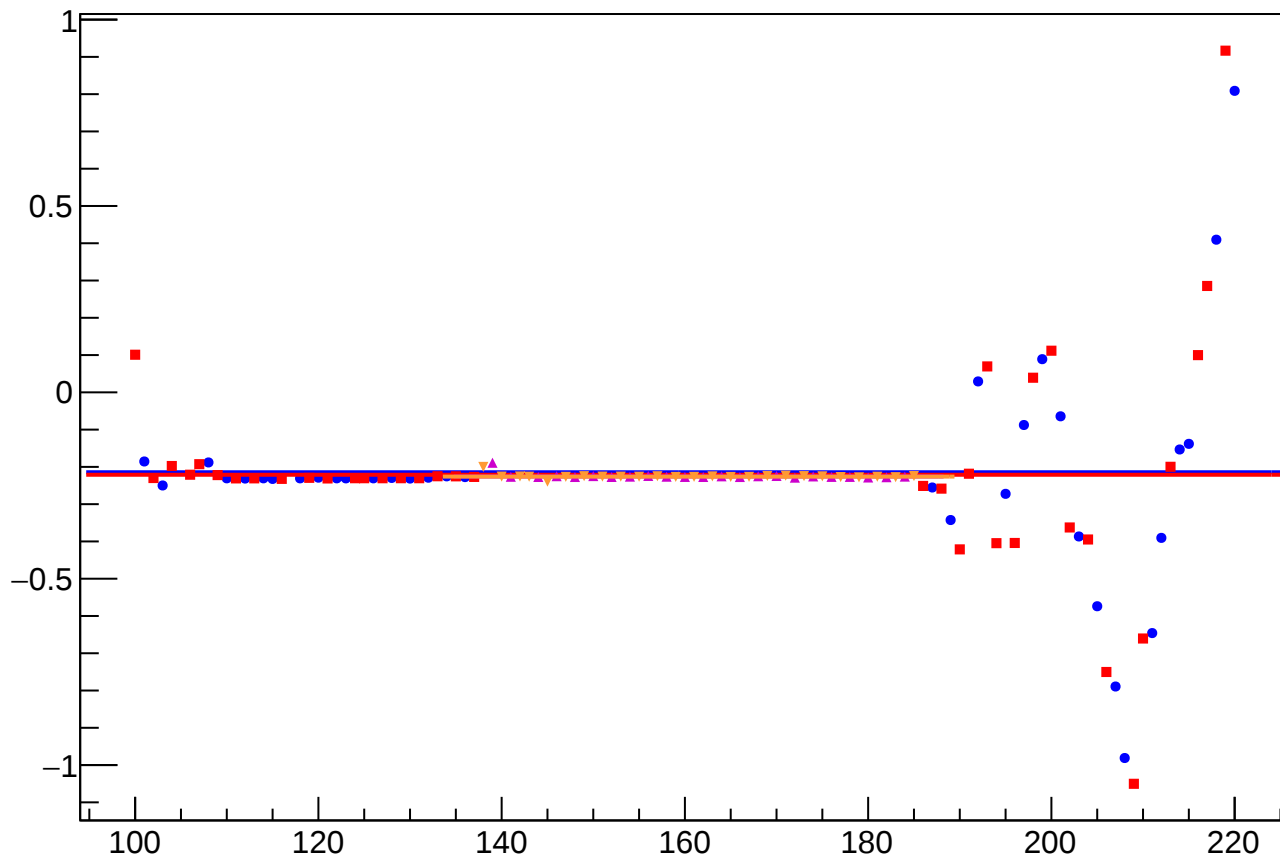
Right: 0.017+/-0.000 χ^2/NDF : 27478508.8/70

In: 0.011+/-0.000 χ^2/NDF :17396783.7/56

Out: 0.011+/-0.000 χ^2/NDF :17640518.1/61

All: 0.011+/-0.000 χ^2/NDF : 35037595.0/118

yield_bpm16Y_mean vs Slug, Sign Corrected



Right In: -0.214+/-0.000

χ^2/NDF : 46773548651.5/33

Left Out: -0.226+/-0.000

χ^2/NDF : 21205667.4/24

Right Out: -0.221+/-0.000

χ^2/NDF : 46853369475.5/36

Left In: -0.226+/-0.000

χ^2/NDF : 15245251.1/22

Left: -0.226+/-0.000

χ^2/NDF : 36480793.2/47

Right: -0.218+/-0.000

χ^2/NDF : 93639025368.1/70

In: -0.220+/-0.000

χ^2/NDF : 46825686873.3/56

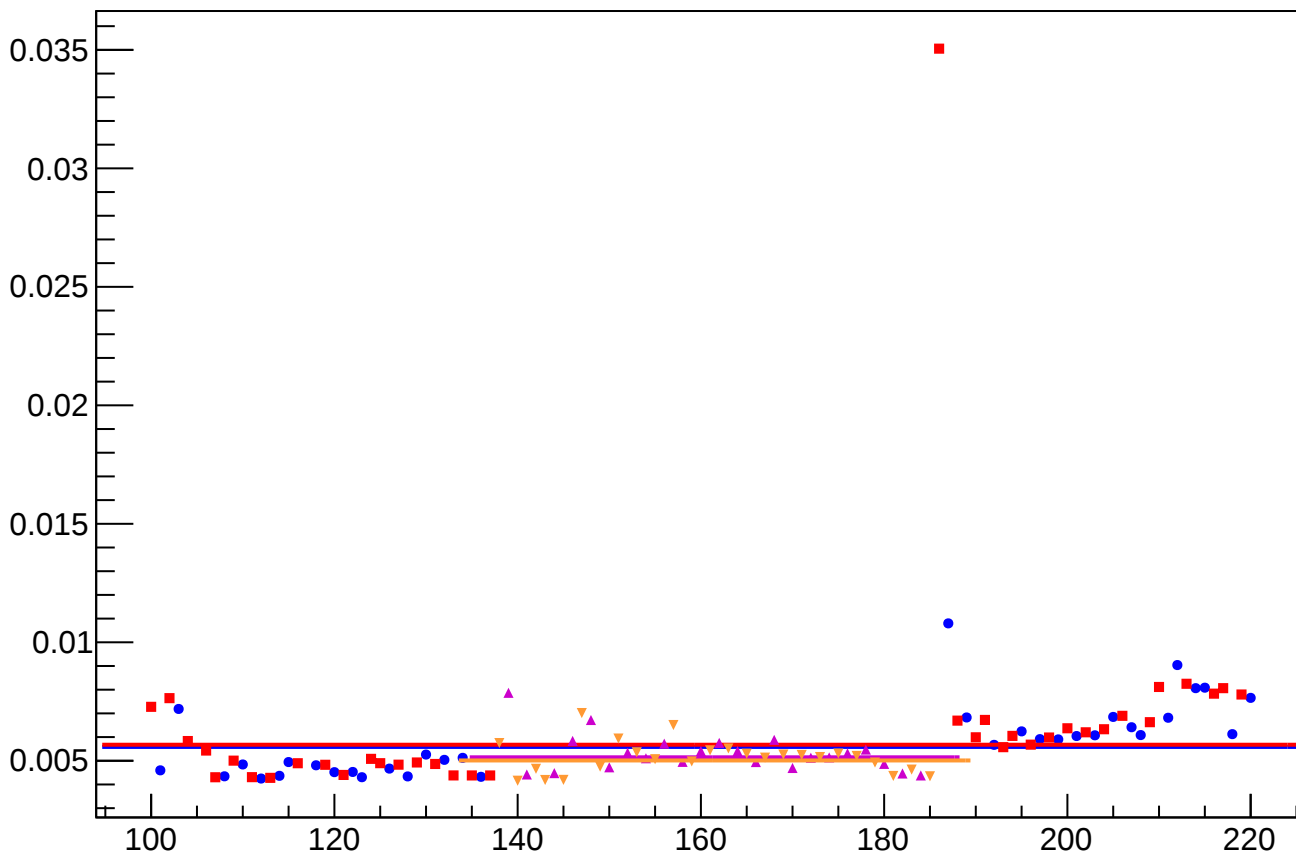
Out: -0.224+/-0.000

χ^2/NDF : 46881896843.9/61

All: -0.222+/-0.000

χ^2/NDF : 93714638121.3/117

yield_bpm16Y_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 1488794.2/33

Left Out: 0.005+/-0.000 χ^2/NDF :530632.6/24

Right Out: 0.006+/-0.000 χ^2/NDF : 1975295.1/36

Left In: 0.005+/-0.000 χ^2/NDF :493107.7/22

Left: 0.005+/-0.000 χ^2/NDF : 1035156.6/47

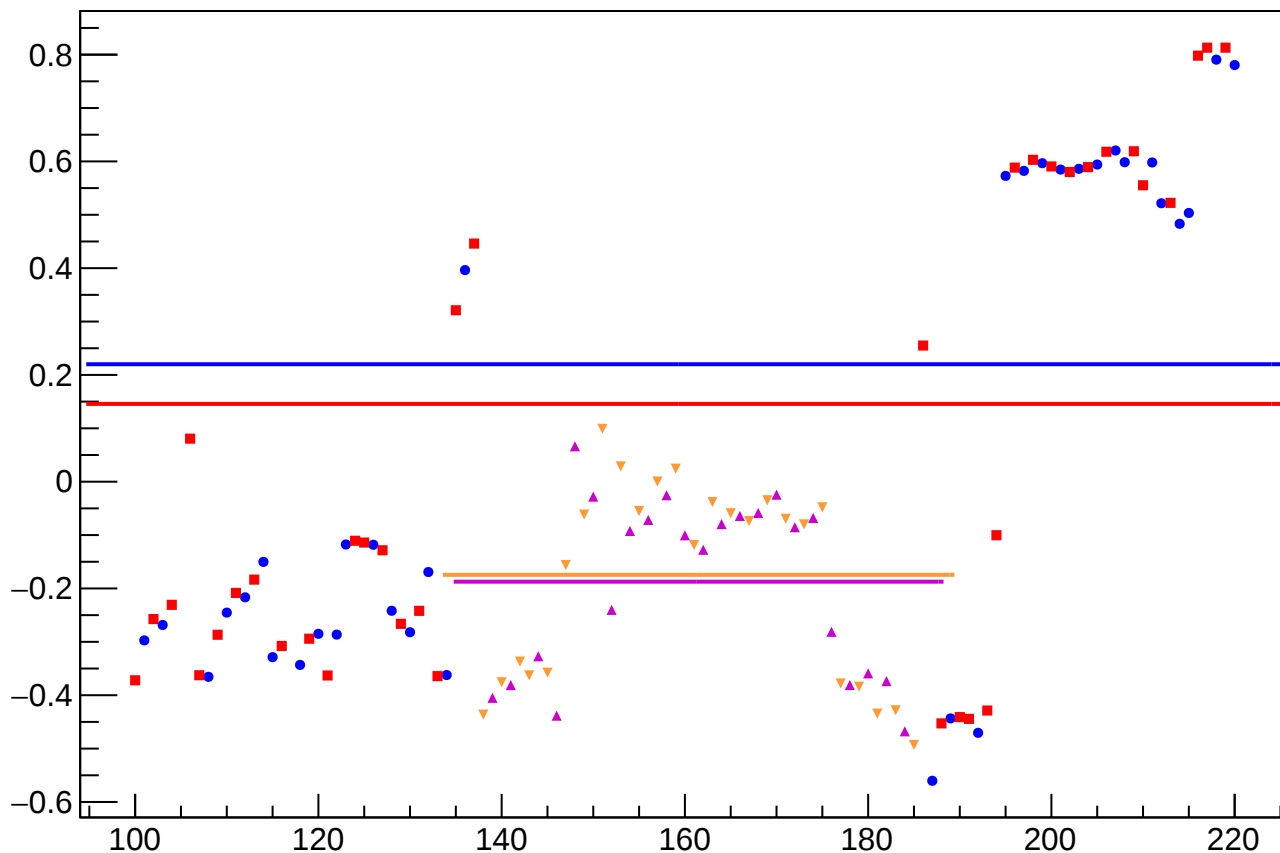
Right: 0.006+/-0.000 χ^2/NDF : 3468702.2/70

In: 0.005+/-0.000 χ^2/NDF :2092887.5/56

Out: 0.005+/-0.000 χ^2/NDF :2771678.6/61

All: 0.005+/-0.000 χ^2/NDF : 4867110.7/118

yield_bpm0i02X_mean vs Slug, Sign Corrected



Right In: 0.220+/-0.000

χ^2/NDF : 78695994413.5/33

Left: -0.181+/-0.000

χ^2/NDF : 30888184231.6/47

Left Out: -0.174+/-0.000

χ^2/NDF : 18025533236.1/24

Right: 0.182+/-0.000

χ^2/NDF : 165635048901.9/70

Right Out: 0.146+/-0.000

χ^2/NDF : 85853759926.3/36

In: -0.019+/-0.000

χ^2/NDF : 129009022498.7/56

Out: -0.043+/-0.000

χ^2/NDF : 128155290784.7/61

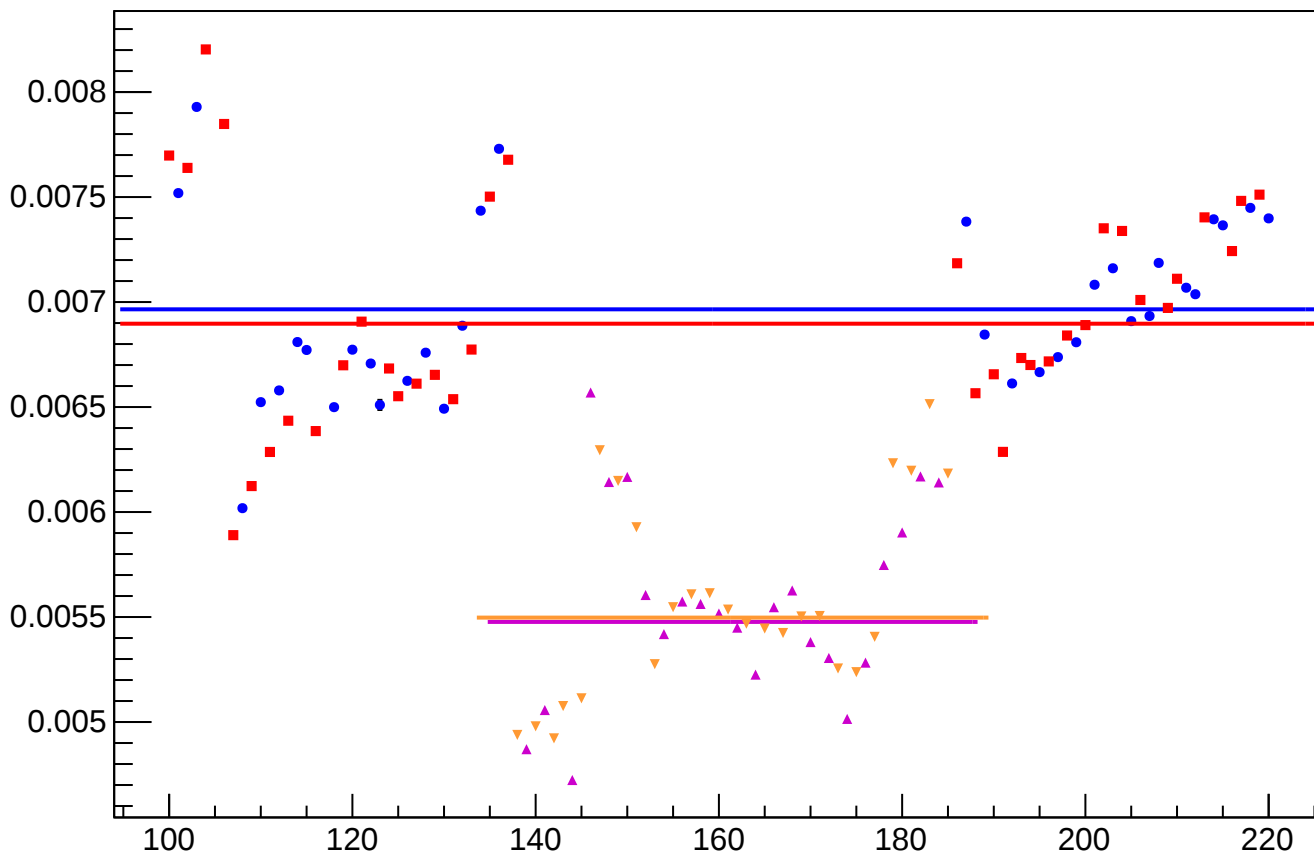
Left In: -0.187+/-0.000

χ^2/NDF : 12816646575.4/22

All: -0.031+/-0.000

χ^2/NDF : 257444977691.8

yield_bpm0i02X_rms vs Slug, Sign Corrected



Right In: 0.007 $\pm$ 0.000 χ^2/NDF : 117703.6/33

Left Out: 0.005 $\pm$ 0.000 χ^2/NDF :198746.4/24

Right Out: 0.007 $\pm$ 0.000 χ^2/NDF : 167655.0/36

Left In: 0.005 $\pm$ 0.000 χ^2/NDF :202181.4/22

Left: 0.005 $\pm$ 0.000 χ^2/NDF : 401165.3/47

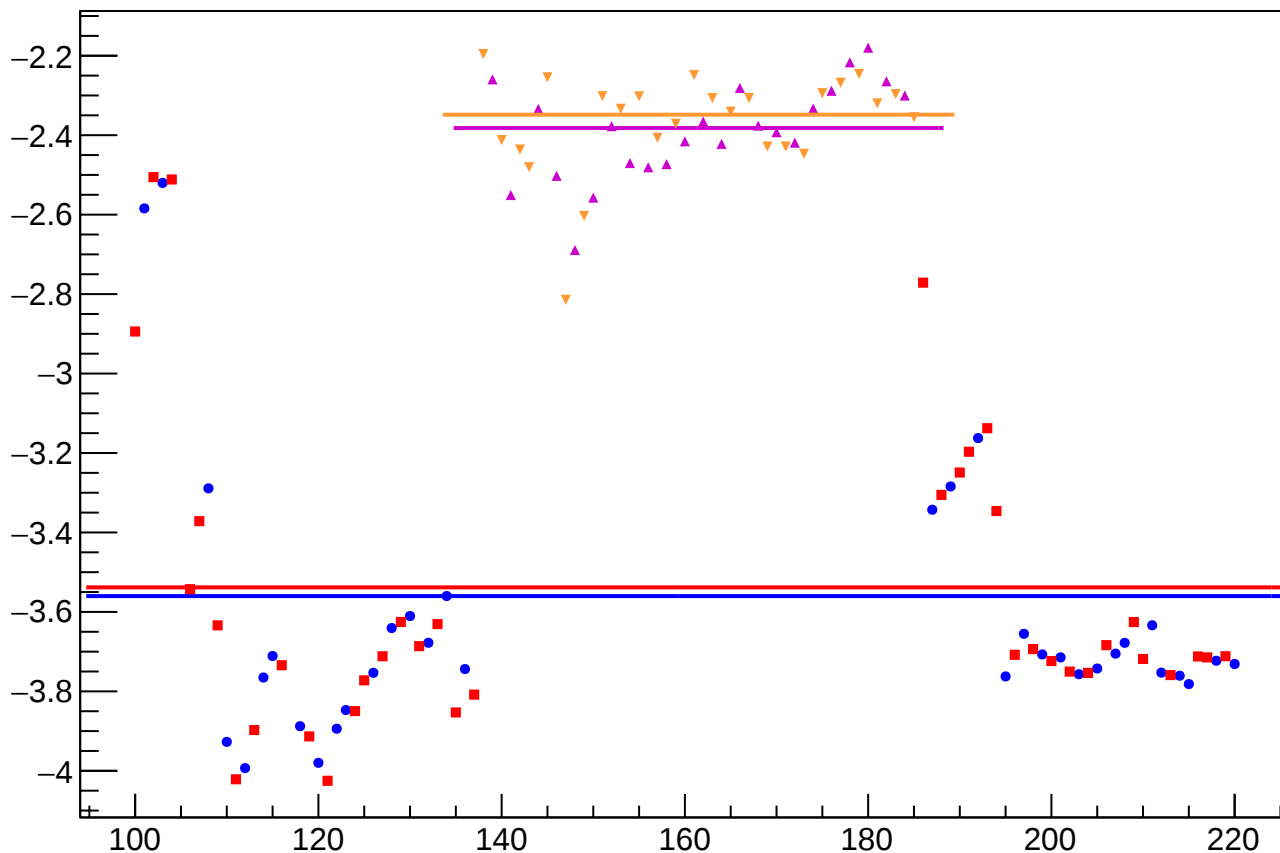
Right: 0.007 $\pm$ 0.000 χ^2/NDF : 287199.5/70

In: 0.006 $\pm$ 0.000 χ^2/NDF :1321549.8/56

Out: 0.006 $\pm$ 0.000 χ^2/NDF :1294054.6/61

All: 0.006 $\pm$ 0.000 χ^2/NDF : 2616018.2/118

yield_bpm0i02Y_mean vs Slug, Sign Corrected



Right In: -3.560 ± 0.000 $\chi^2/\text{NDF}: 30979096509.8/33$

Left Out: -2.348 ± 0.000 $\chi^2/\text{NDF}: 2158686333.4/24$

Right Out: -3.538 ± 0.000 $\chi^2/\text{NDF}: 31752007967.8/36$

Left In: -2.382 ± 0.000 $\chi^2/\text{NDF}: 2318395228.4/22$

Left: -2.365 ± 0.000 $\chi^2/\text{NDF}: 4600738143.2/47$

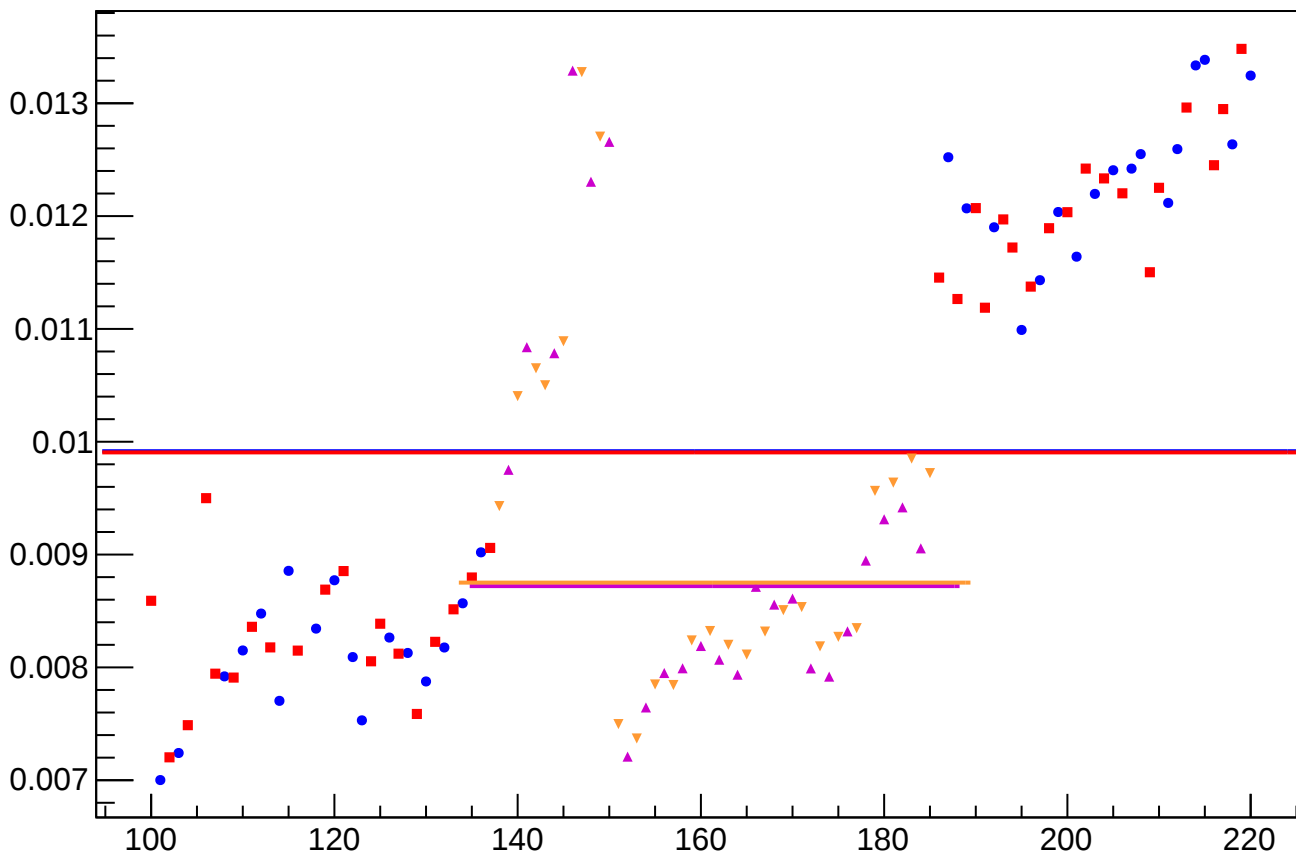
Right: -3.549 ± 0.000 $\chi^2/\text{NDF}: 62775343582.2/70$

In: -2.922 ± 0.000 $\chi^2/\text{NDF}: 169140395467.4/56$

Out: -2.887 ± 0.000 $\chi^2/\text{NDF}: 178109682358.0/61$

All: -2.904 ± 0.000 $\chi^2/\text{NDF}: 347499016588.4$

yield_bpm0i02Y_rms vs Slug, Sign Corrected



Right In: 0.010+/-0.000 χ^2/NDF : 1703237.6/33

Left Out: 0.009+/-0.000 χ^2/NDF :663672.8/24

Right Out: 0.010+/-0.000 χ^2/NDF : 1547031.4/36

Left In: 0.009+/-0.000 χ^2/NDF :747867.0/22

Left: 0.009+/-0.000 χ^2/NDF : 1411749.0/47

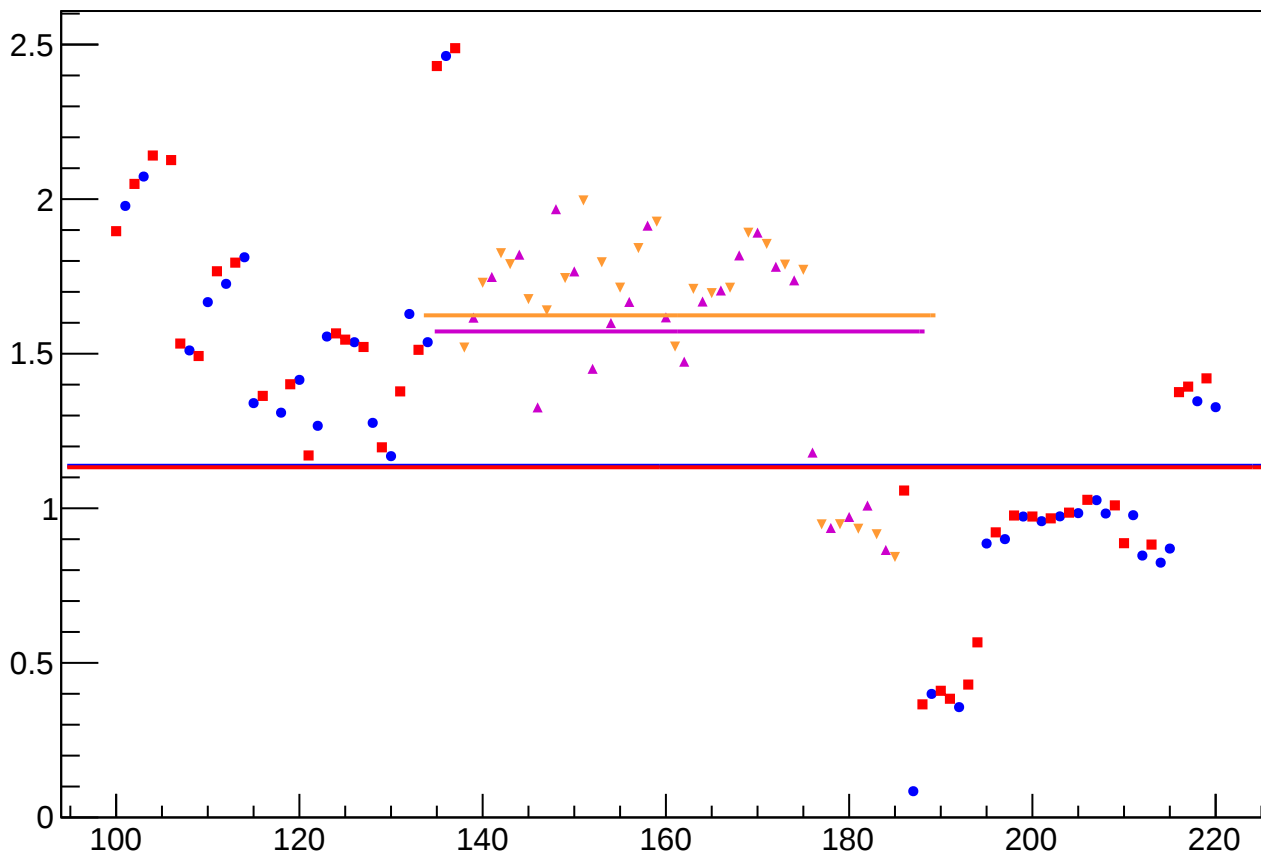
Right: 0.010+/-0.000 χ^2/NDF : 3250289.8/70

In: 0.009+/-0.000 χ^2/NDF :2730935.9/56

Out: 0.009+/-0.000 χ^2/NDF :2482065.6/61

All: 0.009+/-0.000 χ^2/NDF : 5213012.2/118

yield_bpm0i02aX_mean vs Slug, Sign Corrected



Right In: 1.138+/-0.000 χ^2/NDF : 29210116341.0/33

Left Out: 1.624+/-0.000 χ^2/NDF : 16631112386.4/24

Right Out: 1.133+/-0.000 χ^2/NDF : 34094940967.6/36

Left In: 1.572+/-0.000 χ^2/NDF : 14230484809.4/22

Left: 1.599+/-0.000 χ^2/NDF : 31067753064.6/47

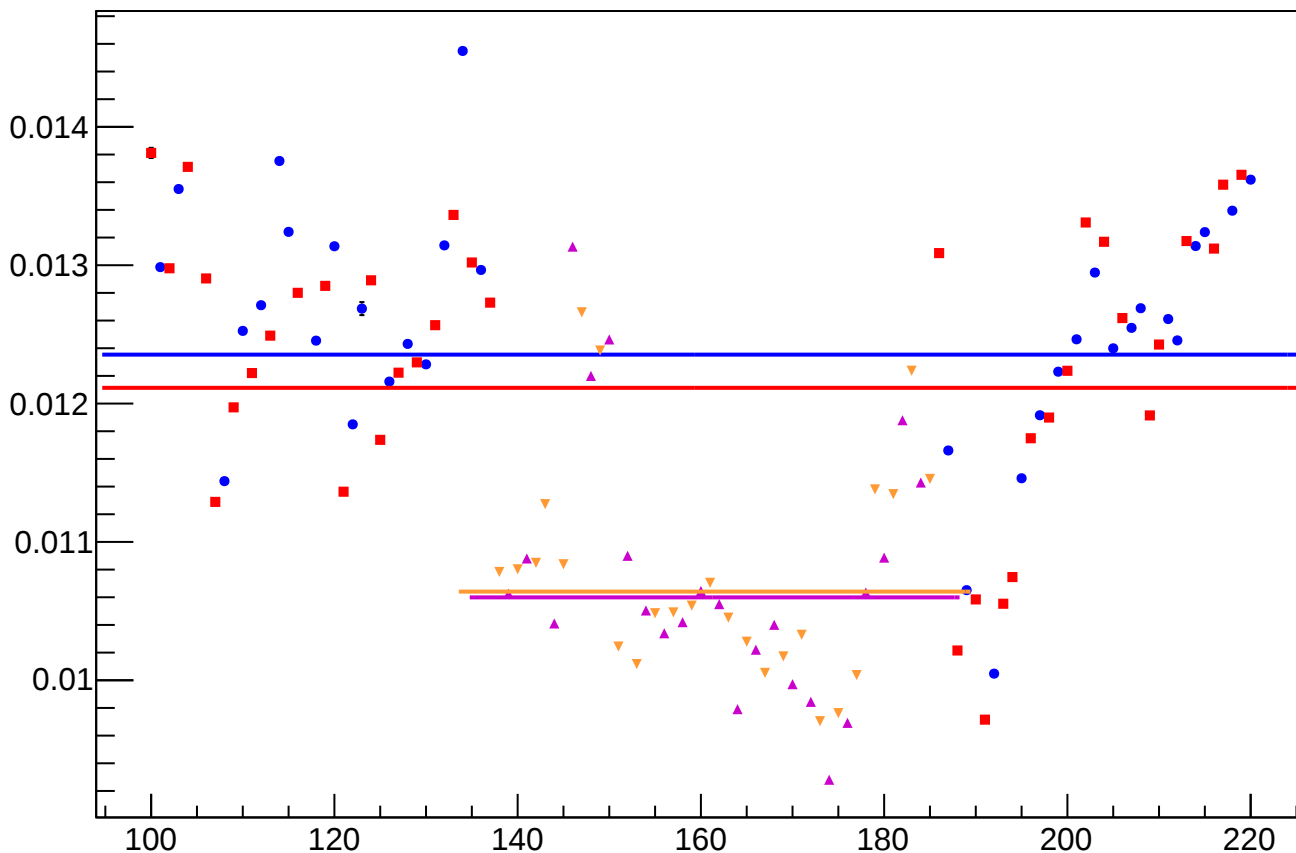
Right: 1.135+/-0.000 χ^2/NDF : 63306544873.0/70

In: 1.376+/-0.000 χ^2/NDF : 56019474260.1/56

Out: 1.402+/-0.000 χ^2/NDF : 67769451574.6/61

All: 1.389+/-0.000 χ^2/NDF : 123881263647.4

yield_bpm0i02aX_rms vs Slug, Sign Corrected



Right In: 0.012+/-0.000 χ^2/NDF : 210719.4/33

Left Out: 0.011+/-0.000 χ^2/NDF :159760.9/24

Right Out: 0.012+/-0.000 χ^2/NDF : 295616.5/36

Left In: 0.011+/-0.000 χ^2/NDF :204531.5/22

Left: 0.011+/-0.000 χ^2/NDF : 364556.9/47

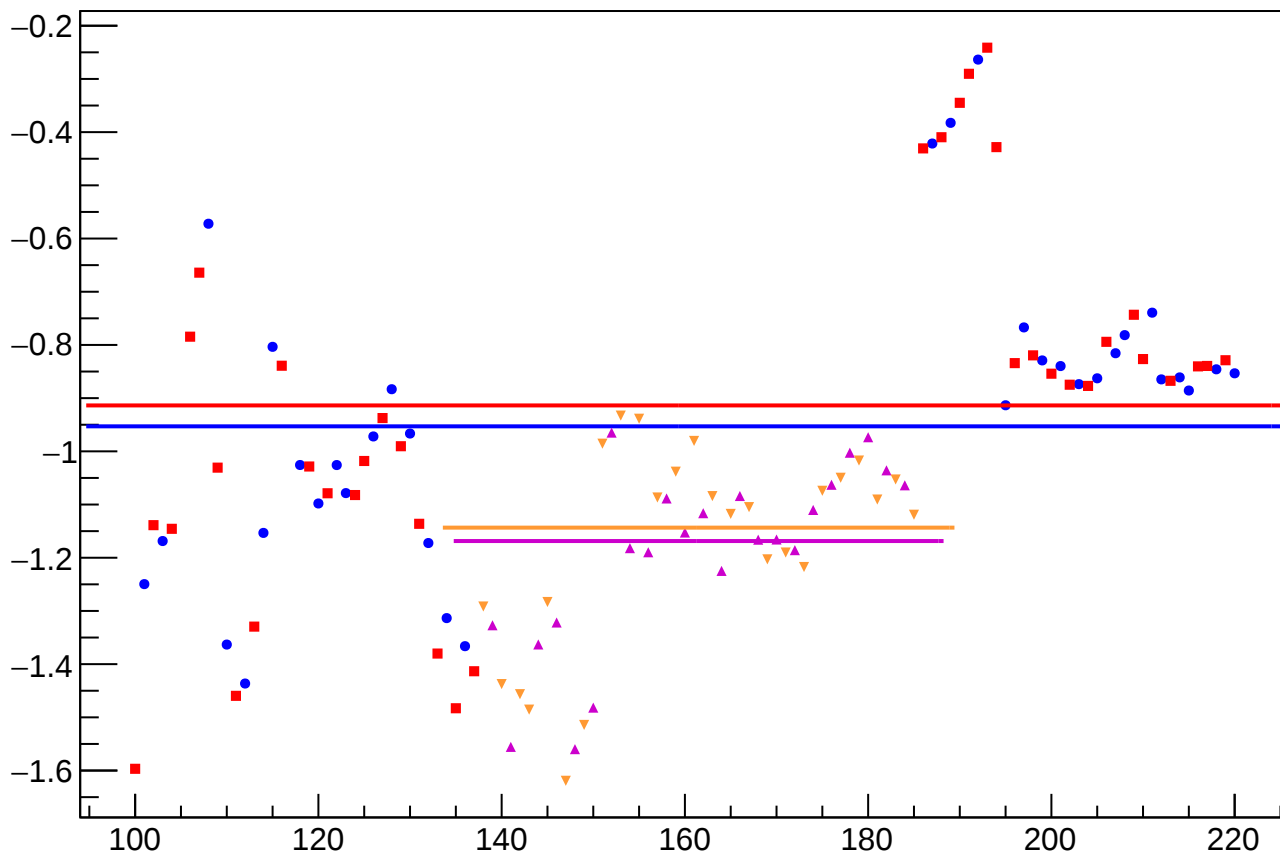
Right: 0.012+/-0.000 χ^2/NDF : 513536.4/70

In: 0.011+/-0.000 χ^2/NDF :825565.6/56

Out: 0.011+/-0.000 χ^2/NDF :761514.1/61

All: 0.011+/-0.000 χ^2/NDF : 1589014.4/118

yield_bpm0i02aY_mean vs Slug, Sign Corrected



Right In: -0.953+/-0.000 χ^2/NDF : 11585041554.7/33

Left Out: -1.143+/-0.000 χ^2/NDF : 7976364534.0/24

Right Out: -0.914+/-0.000 χ^2/NDF : 16168541873.8/36

Left In: -1.169+/-0.000 χ^2/NDF : 6362643368.6/22

Left: -1.156+/-0.000 χ^2/NDF : 14424995220.9/47

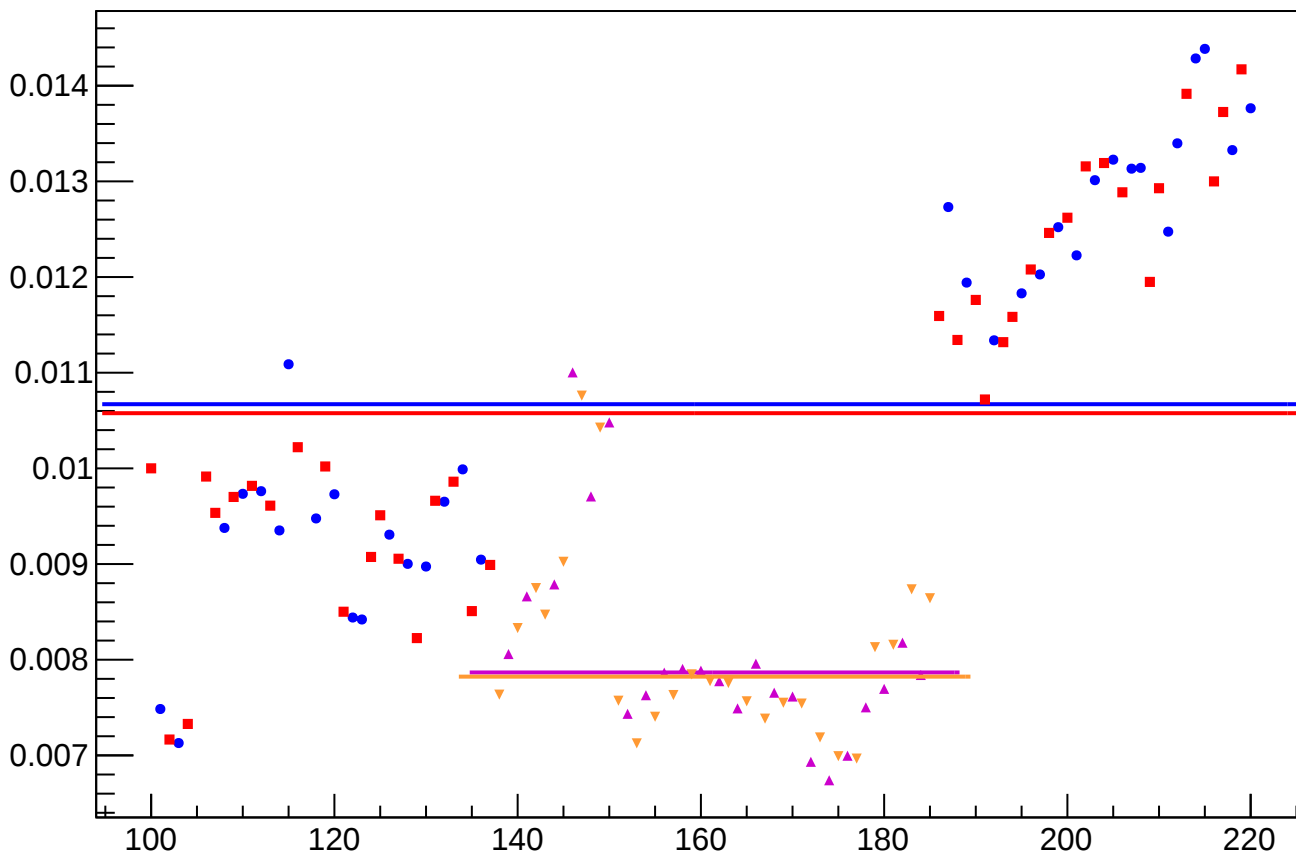
Right: -0.933+/-0.000 χ^2/NDF : 27876475738.4/70

In: -1.088+/-0.000 χ^2/NDF : 22487043584.9/56

Out: -1.059+/-0.000 χ^2/NDF : 29573042022.8/61

All: -1.073+/-0.000 χ^2/NDF : 52244225714.6/100

yield_bpm0i02aY_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 1471042.1/33

Left Out: 0.008+/-0.000 χ^2/NDF : 336387.6/24

Right Out: 0.011+/-0.000 χ^2/NDF : 1348177.3/36

Left In: 0.008+/-0.000 χ^2/NDF : 379901.3/22

Left: 0.008+/-0.000 χ^2/NDF : 716803.8/47

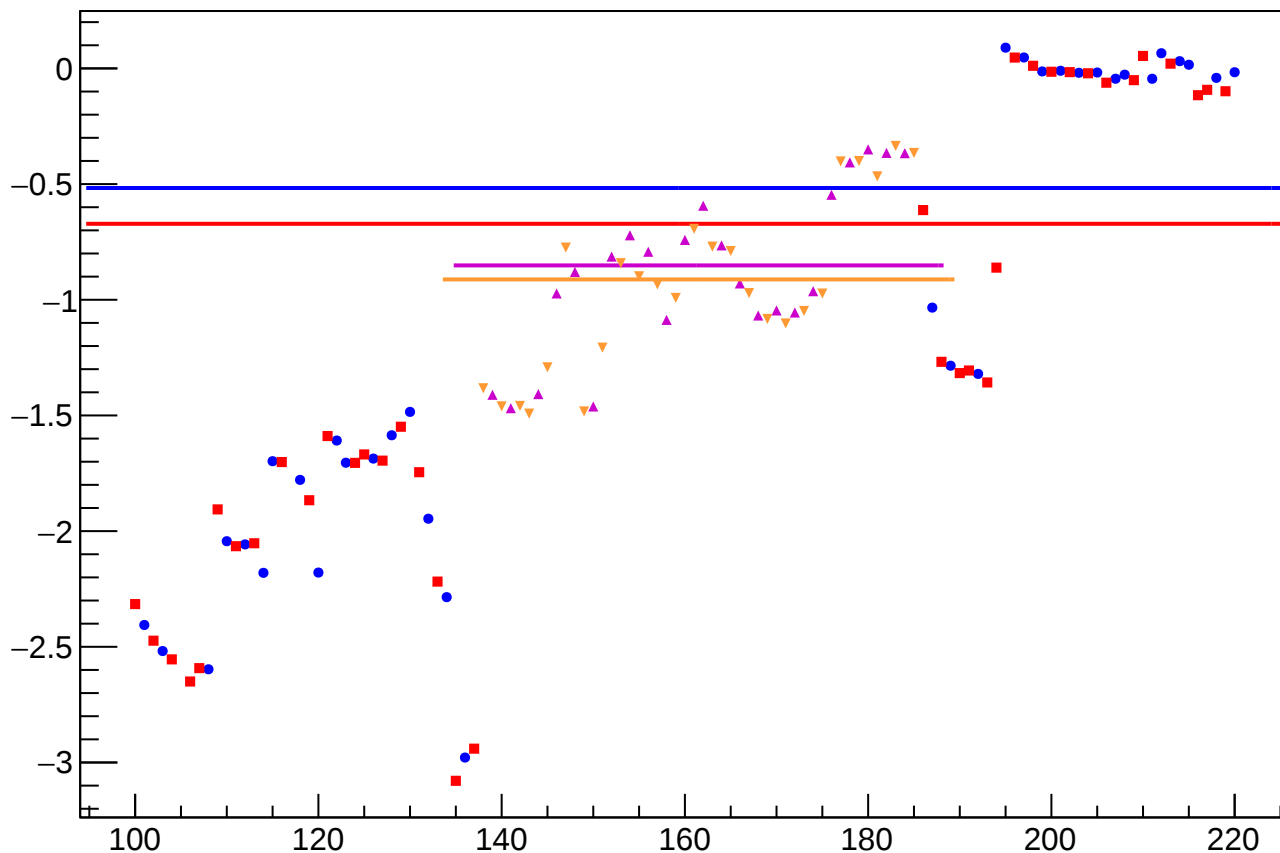
Right: 0.011+/-0.000 χ^2/NDF : 2820623.9/70

In: 0.009+/-0.000 χ^2/NDF : 3386536.9/56

Out: 0.009+/-0.000 χ^2/NDF : 3244748.2/61

All: 0.009+/-0.000 χ^2/NDF : 6633808.2/118

yield_bpm0i05X_mean vs Slug, Sign Corrected



Right In: -0.517 $\pm$ 0.000 χ^2 /NDF: 419307654644.6/33

Left Out: -0.912 $\pm$ 0.000 χ^2 /NDF: 49039425818.1/24

Right Out: -0.672 $\pm$ 0.000 χ^2 /NDF: 445701793992.8/36

Left In: -0.851 $\pm$ 0.000 χ^2 /NDF: 46438446008.2/22

Left: -0.882 $\pm$ 0.000 χ^2 /NDF: 96285672564.6/47

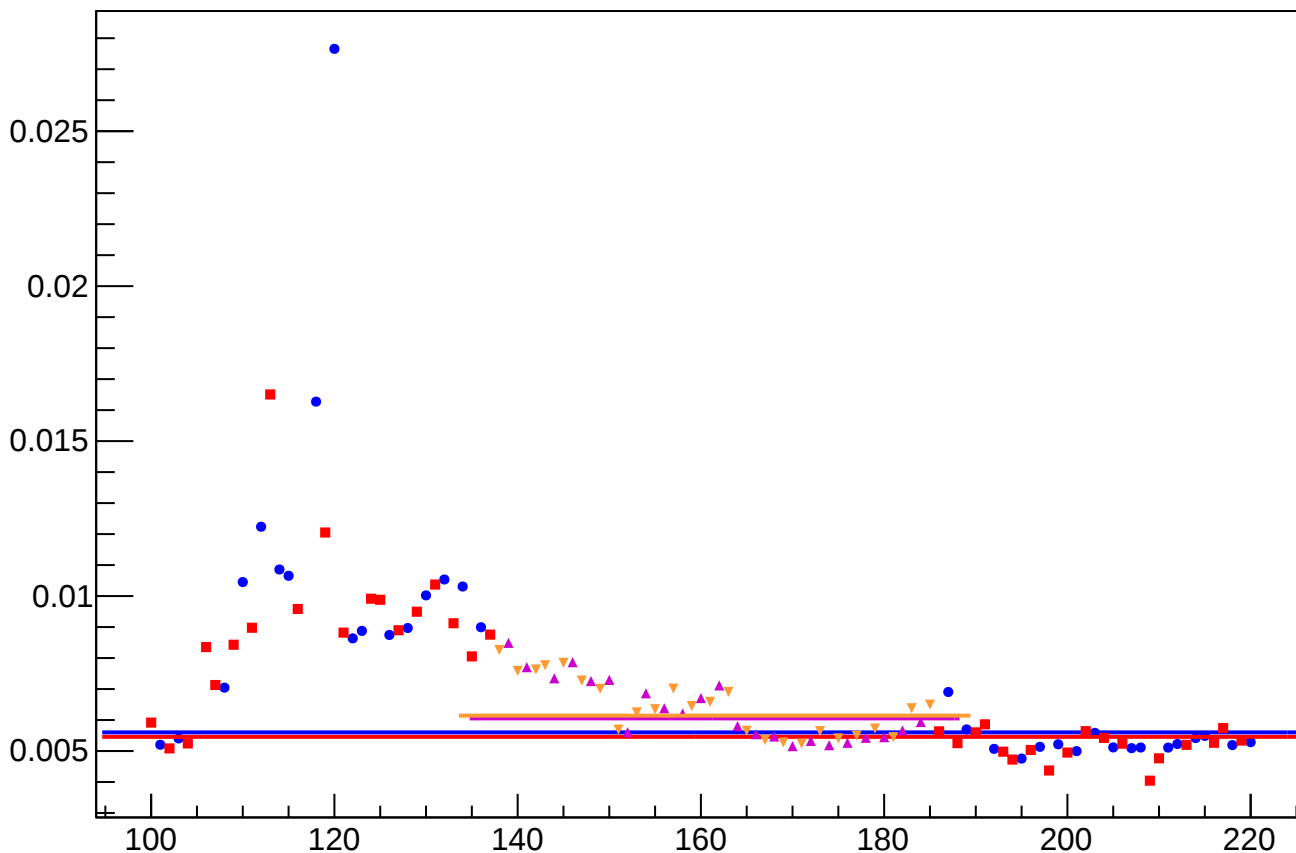
Right: -0.597 $\pm$ 0.000 χ^2 /NDF: 871368754213.2/70

In: -0.671 $\pm$ 0.000 χ^2 /NDF: 492029633613.5/56

Out: -0.779 $\pm$ 0.000 χ^2 /NDF: 509003351128.6/61

All: -0.726 $\pm$ 0.000 χ^2 /NDF: 1006691851632

yield_bpm0i05X_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 2076749.0/33

Left Out: 0.006+/-0.000 χ^2/NDF :637765.4/24

Right Out: 0.005+/-0.000 χ^2/NDF : 2135887.9/36

Left In: 0.006+/-0.000 χ^2/NDF :697577.8/22

Left: 0.006+/-0.000 χ^2/NDF : 1338871.2/47

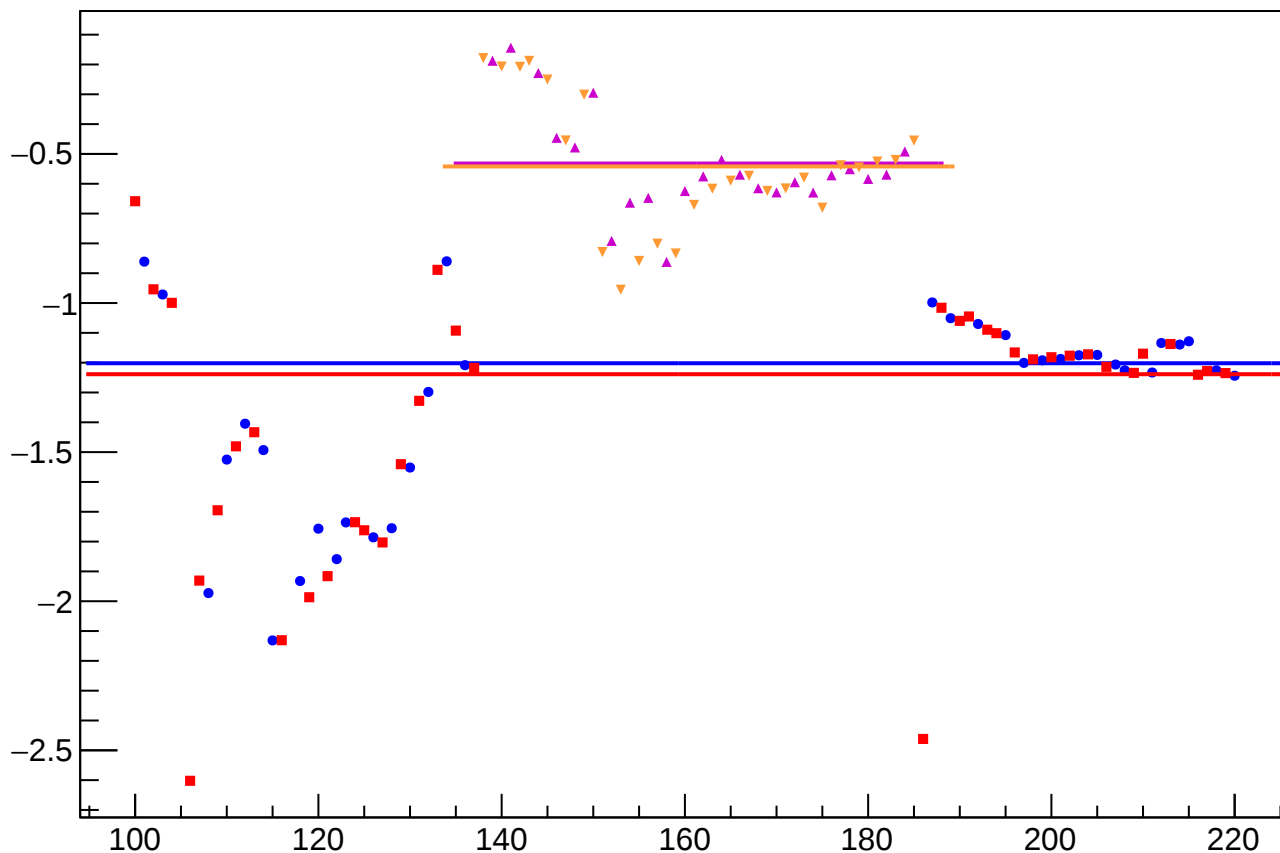
Right: 0.006+/-0.000 χ^2/NDF : 4223597.9/70

In: 0.006+/-0.000 χ^2/NDF :2869833.5/56

Out: 0.006+/-0.000 χ^2/NDF :3004662.5/61

All: 0.006+/-0.000 χ^2/NDF : 5876574.2/118

yield_bpm0i05Y_mean vs Slug, Sign Corrected



Right In: -1.202+/-0.000

χ²/NDF: 27044486722.4/33

Left Out: -0.542+/-0.000

χ²/NDF: 47268284910.3/24

Right Out: -1.239+/-0.000

χ²/NDF: 79547115749.9/36

Left In: -0.532+/-0.000

χ²/NDF: 30715235426.8/22

Left: -0.537+/-0.000

χ²/NDF: 78028833870.1/47

Right: -1.221+/-0.000

χ²/NDF: 107190352730.2/70

In: -0.854+/-0.000

χ²/NDF: 259732836730.7/56

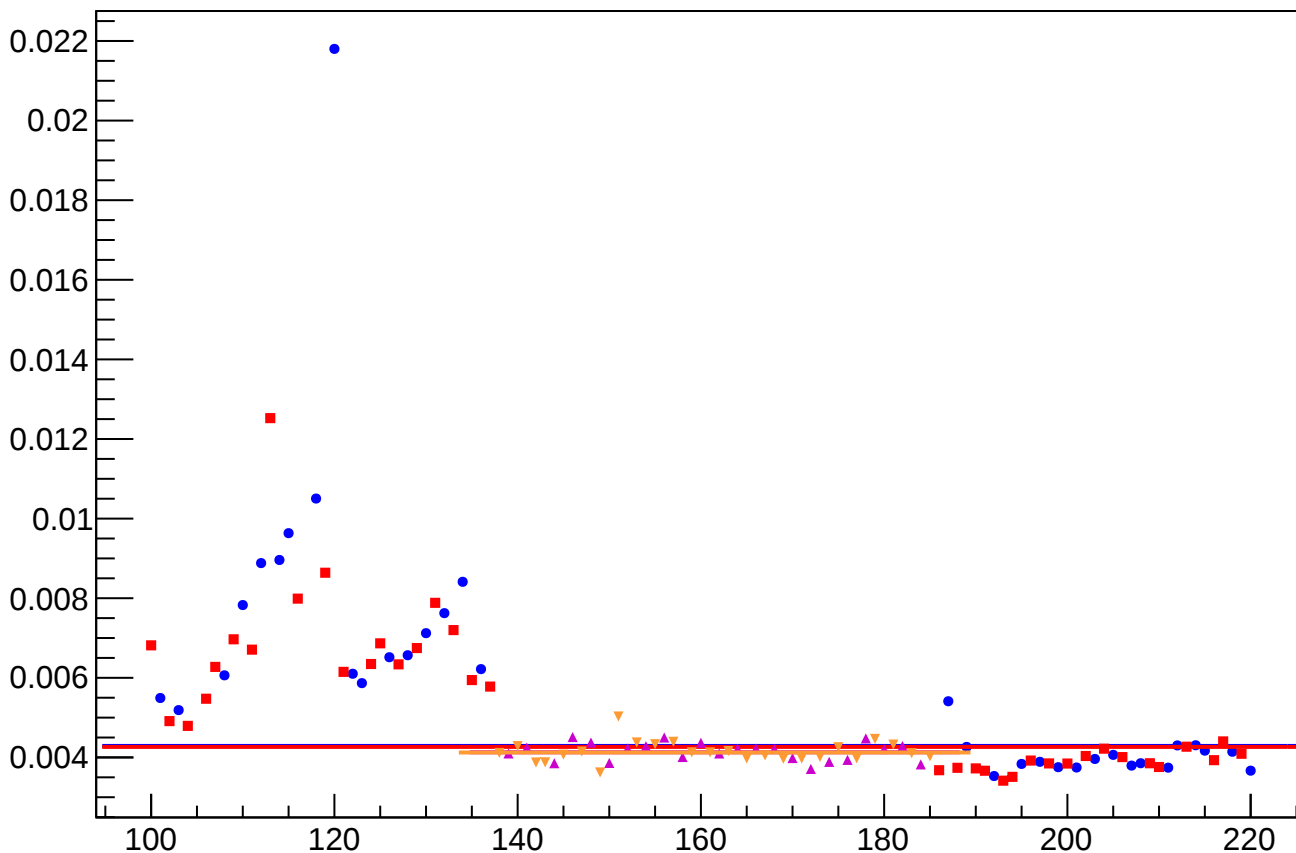
Out: -0.874+/-0.000

χ²/NDF: 356460081230.4/61

All: -0.865+/-0.000

χ²/NDF: 616560875055.0

yield_bpm0i05Y_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 2118738.6/33

Left Out: 0.004+/-0.000 χ^2/NDF :113033.9/24

Right Out: 0.004+/-0.000 χ^2/NDF : 1902350.3/36

Left In: 0.004+/-0.000 χ^2/NDF :93111.2/22

Left: 0.004+/-0.000 χ^2/NDF : 206172.1/47

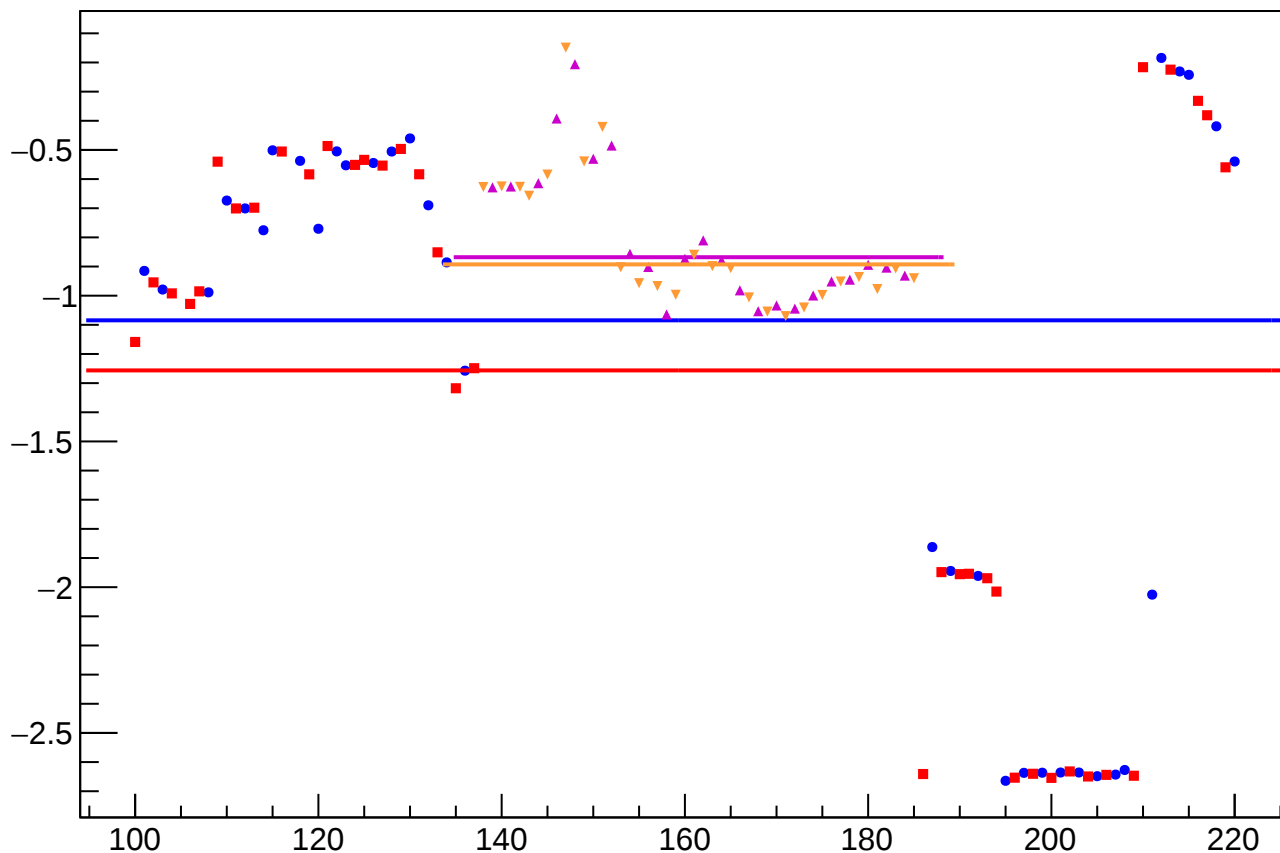
Right: 0.004+/-0.000 χ^2/NDF : 4021594.0/70

In: 0.004+/-0.000 χ^2/NDF :2234558.9/56

Out: 0.004+/-0.000 χ^2/NDF :2033979.6/61

All: 0.004+/-0.000 χ^2/NDF : 4268943.1/118

yield_bpm0i07X_mean vs Slug, Sign Corrected



Right In: -1.085+/-0.000 χ^2/NDF : 585147593453.1/33

Left Out: -0.893+/-0.000 χ^2/NDF : 40787012603.8/24

Right Out: -1.256+/-0.000 χ^2/NDF : 700344763819.6/36

Left In: -0.868+/-0.000 χ^2/NDF : 43853190177.2/22

Left: -0.880+/-0.000 χ^2/NDF : 84980637247.0/47

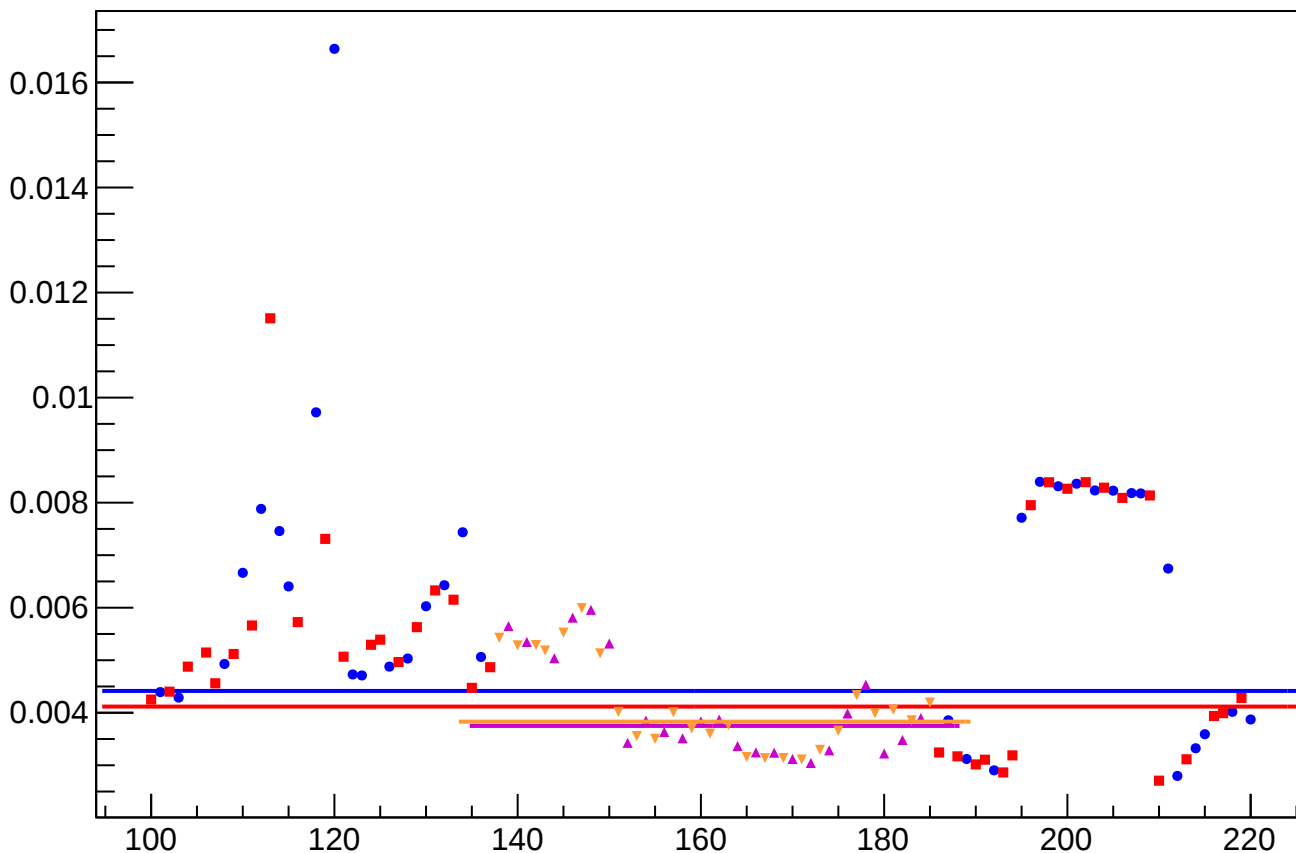
Right: -1.178+/-0.000 χ^2/NDF : 1298019049182.9/7

In: -0.957+/-0.000 χ^2/NDF : 650482727673.5/56

Out: -1.058+/-0.000 χ^2/NDF : 808686648770.4/61

All: -1.009+/-0.000 χ^2/NDF : 1469188925431

yield_bpm0i07X_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 5113250.2/33

Left Out: 0.004+/-0.000 χ^2/NDF :1179801.7/24

Right Out: 0.004+/-0.000 χ^2/NDF : 4719416.0/36

Left In: 0.004+/-0.000 χ^2/NDF :1288490.4/22

Left: 0.004+/-0.000 χ^2/NDF : 2475792.1/47

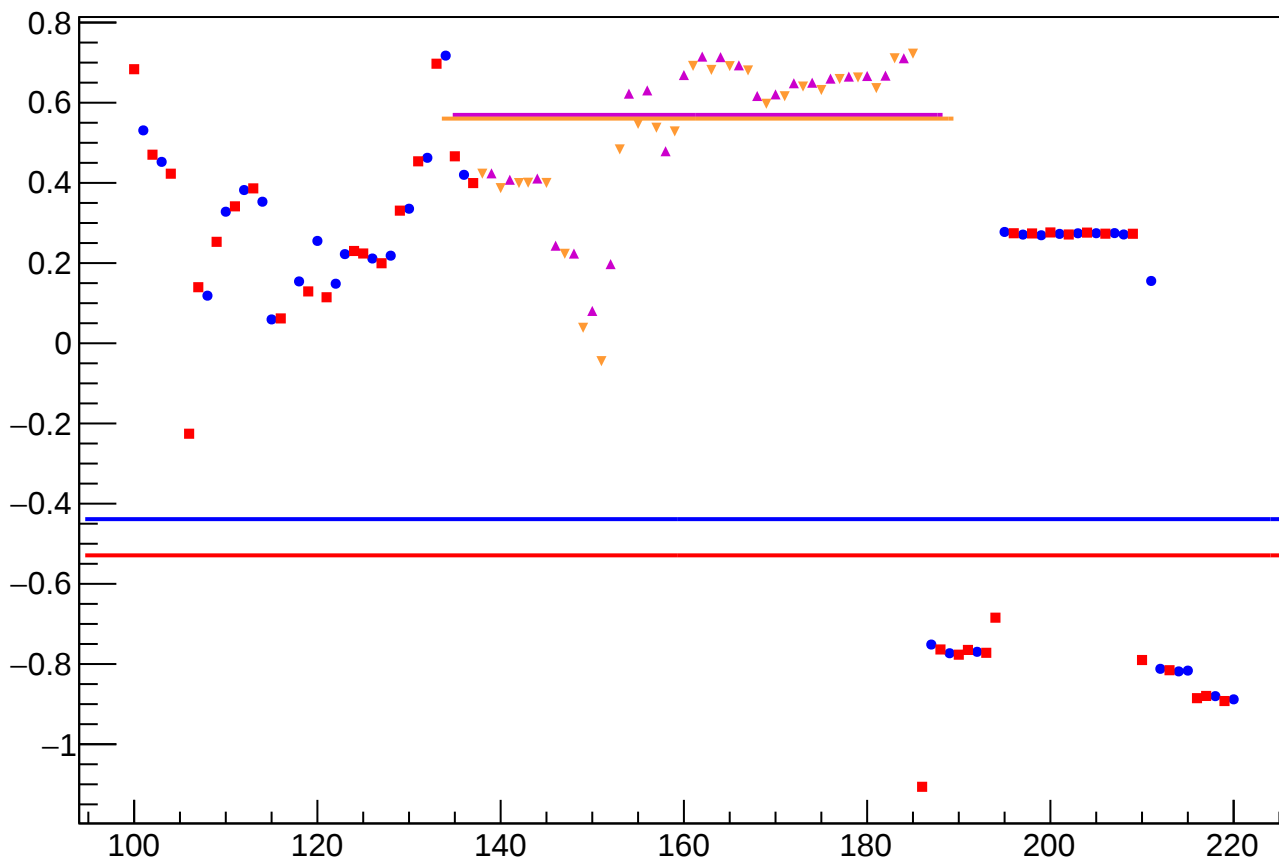
Right: 0.004+/-0.000 χ^2/NDF : 9907920.3/70

In: 0.004+/-0.000 χ^2/NDF :6808433.5/56

Out: 0.004+/-0.000 χ^2/NDF :5983136.8/61

All: 0.004+/-0.000 χ^2/NDF : 12799061.0/118

yield_bpm0i07Y_mean vs Slug, Sign Corrected



Right In: -0.439 $\pm$ 0.000 χ^2 /NDF: 571746154576.1/33

Left Out: 0.560 $\pm$ 0.000 χ^2 /NDF: 45205806387.2/24

Right Out: -0.529 $\pm$ 0.000 χ^2 /NDF: 627124633821.1/36

Left In: 0.570 $\pm$ 0.000 χ^2 /NDF: 42104067973.0/22

Left: 0.565 $\pm$ 0.000 χ^2 /NDF: 87378176036.1/47

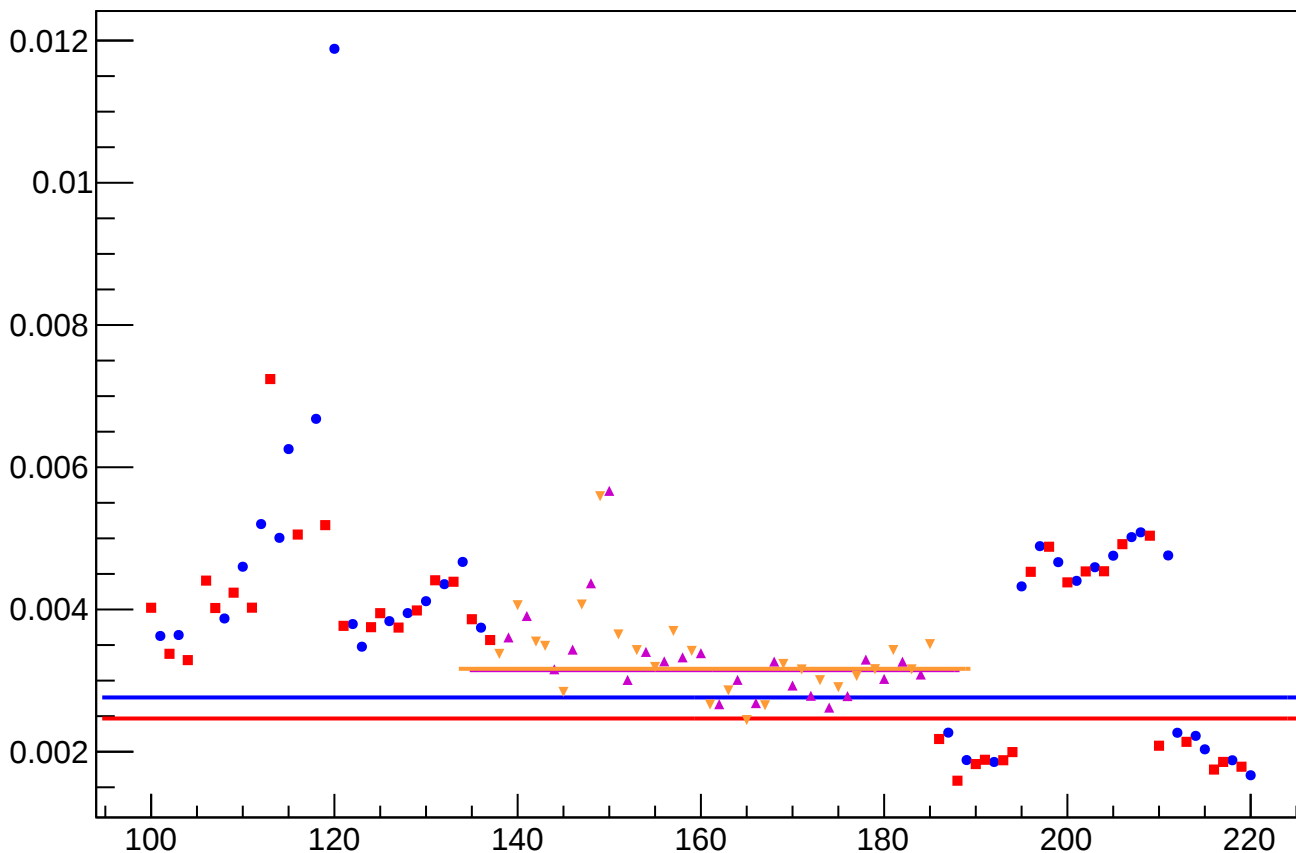
Right: -0.489 $\pm$ 0.000 χ^2 /NDF: 1207679165755.9/7

In: 0.012 $\pm$ 0.000 χ^2 /NDF: 1489316834607.3/56

Out: -0.096 $\pm$ 0.000 χ^2 /NDF: 1830547220877.5/61

All: -0.046 $\pm$ 0.000 χ^2 /NDF: 3342098633384

yield_bpm0i07Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 5791158.9/33

Left Out: 0.003+/-0.000 χ^2/NDF : 744886.7/24

Right Out: 0.002+/-0.000 χ^2/NDF : 5804421.3/36

Left In: 0.003+/-0.000 χ^2/NDF : 716402.8/22

Left: 0.003+/-0.000 χ^2/NDF : 1461906.1/47

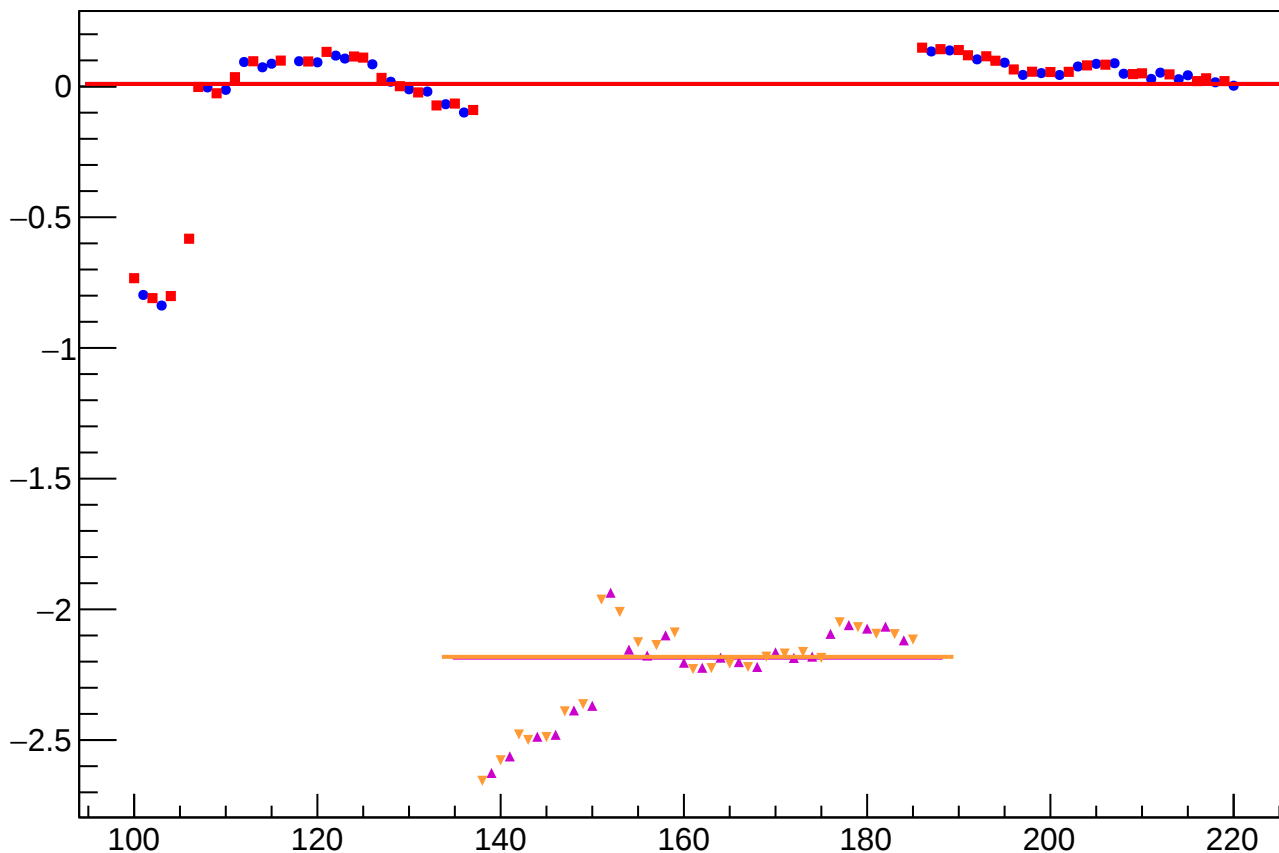
Right: 0.003+/-0.000 χ^2/NDF : 11784846.4/70

In: 0.003+/-0.000 χ^2/NDF : 6760411.2/56

Out: 0.003+/-0.000 χ^2/NDF : 7502874.7/61

All: 0.003+/-0.000 χ^2/NDF : 14398814.6/118

yield_bpm1i02X_mean vs Slug, Sign Corrected



Right In: 0.010+/-0.000

χ^2/NDF : 5917948780.9/33

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 : 12905617110.1/70

Right Out: 0.010+/-0.000

χ^2/NDF : 6987668240.9/36

In: -1.079+/-0.000

χ^2/NDF : 391201774106.5/56

Out: -1.084+/-0.000

χ^2/NDF : 414609821277.3/61

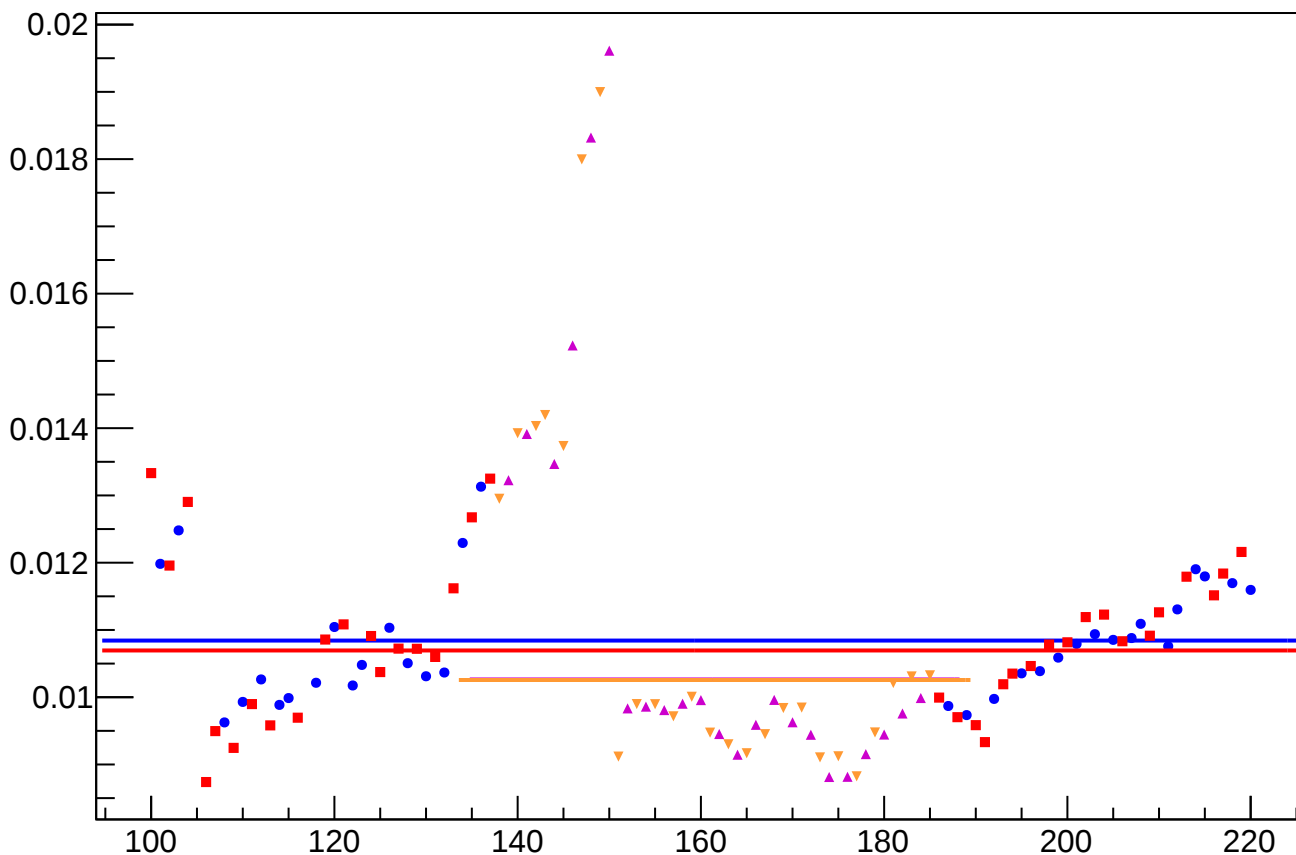
Left In: -2.185+/-0.000

χ^2/NDF : 3372742534.3/22

All: -1.082+/-0.000

χ^2/NDF : 805815422831.4

yield_bpm1i02X_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 199835.2/33

Left Out: 0.010+/-0.000 χ^2/NDF :1270617.6/24

Right Out: 0.011+/-0.000 χ^2/NDF : 295901.9/36

Left In: 0.010+/-0.000 χ^2/NDF :1340264.2/22

Left: 0.010+/-0.000 χ^2/NDF : 2610893.2/47

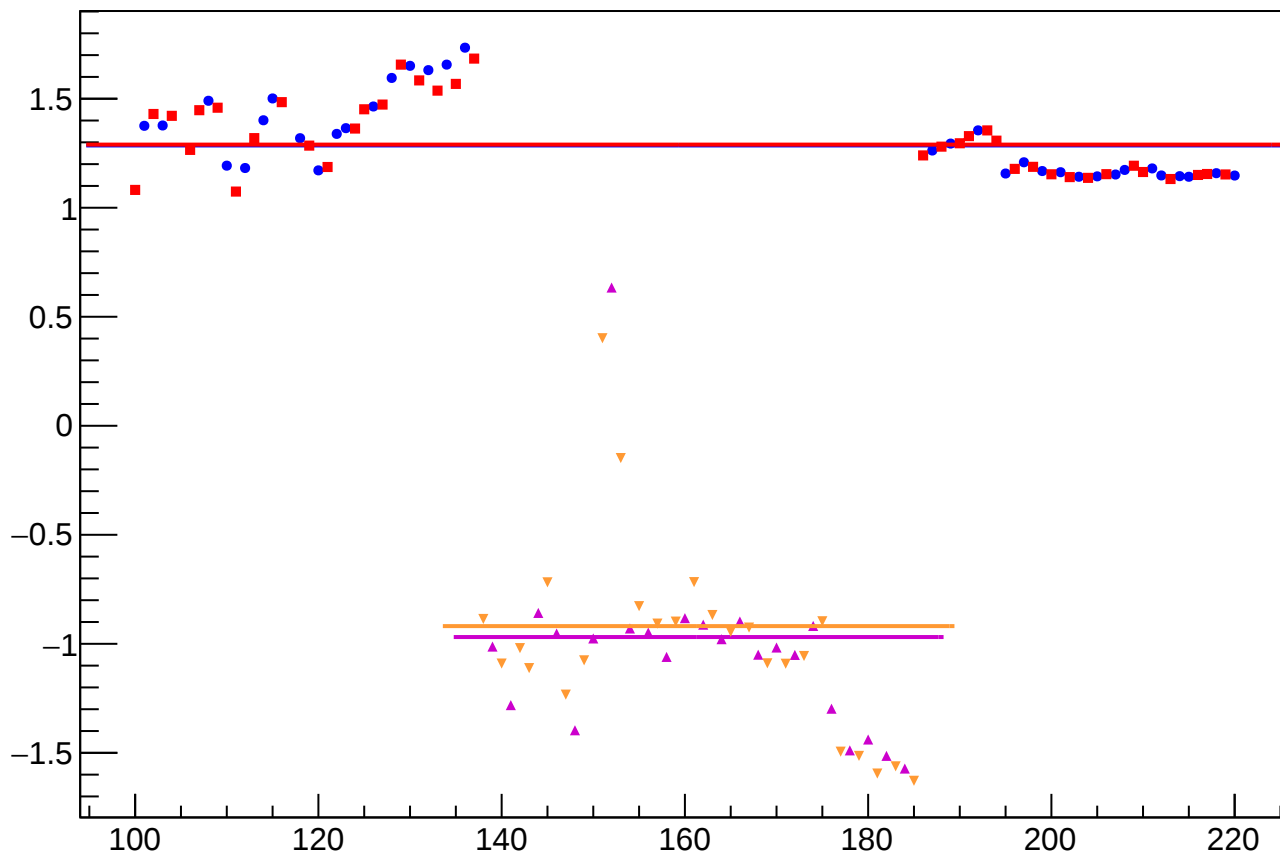
Right: 0.011+/-0.000 χ^2/NDF : 499289.9/70

In: 0.011+/-0.000 χ^2/NDF :1593064.6/56

Out: 0.010+/-0.000 χ^2/NDF :1598920.3/61

All: 0.011+/-0.000 χ^2/NDF : 3194051.5/118

yield_bpm1i02Y_mean vs Slug, Sign Corrected



Right In: 1.286+/-0.000

χ^2/NDF : 8958690683.4/33

Left: -0.943+/-0.000

χ^2/NDF : 110825900215.1/47

Left Out: -0.919+/-0.000

χ^2/NDF : 55622252895.8/24

Right: 1.288+/-0.000

χ^2/NDF : 16069158590.8/70

Right Out: 1.290+/-0.000

χ^2/NDF : 7108127082.9/36

In: 0.298+/-0.000

χ^2/NDF : 747682300818.1/56

Out: 0.324+/-0.000

χ^2/NDF : 754766418946.0/61

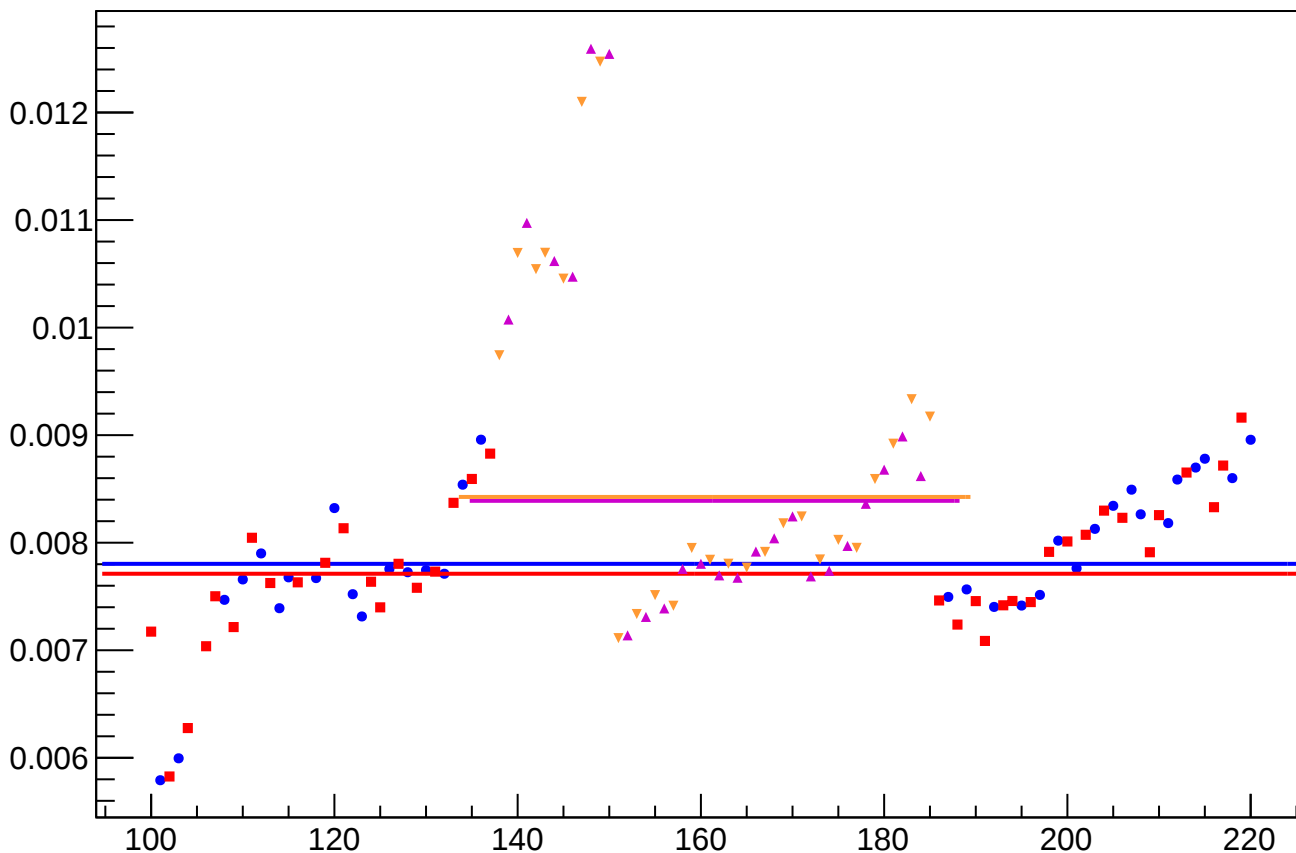
Left In: -0.969+/-0.000

χ^2/NDF : 54895002535.8/22

All: 0.311+/-0.000

χ^2/NDF : 1502643648070.

yield_bpm1i02Y_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 405472.1/33

Left Out: 0.008+/-0.000 χ^2/NDF : 792337.0/24

Right Out: 0.008+/-0.000 χ^2/NDF : 334916.0/36

Left In: 0.008+/-0.000 χ^2/NDF : 839880.4/22

Left: 0.008+/-0.000 χ^2/NDF : 1632536.0/47

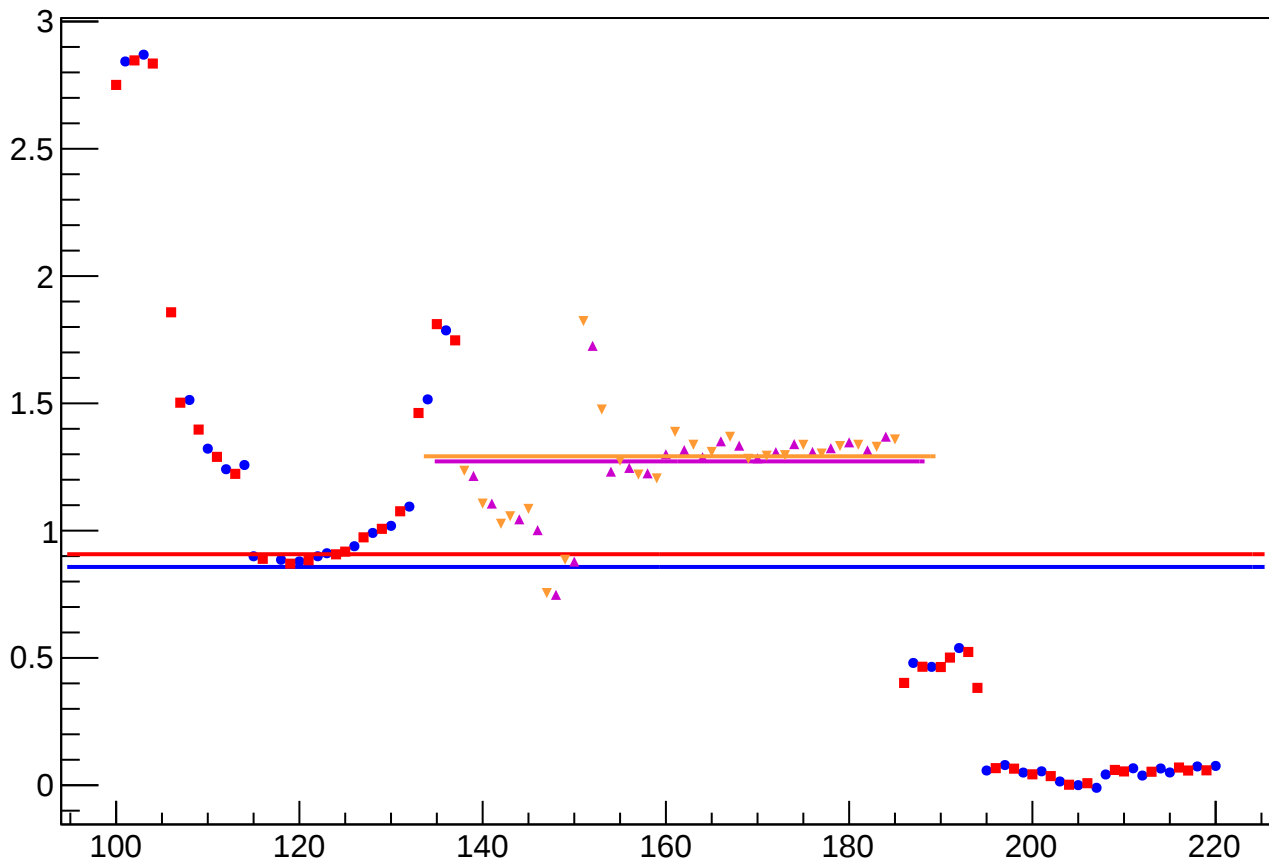
Right: 0.008+/-0.000 χ^2/NDF : 743064.2/70

In: 0.008+/-0.000 χ^2/NDF : 1337749.0/56

Out: 0.008+/-0.000 χ^2/NDF : 1271991.6/61

All: 0.008+/-0.000 χ^2/NDF : 2610495.3/118

yield_bpm1i04X_mean vs Slug, Sign Corrected



Right In: 0.857 $\pm$ 0.000 χ^2/NDF : 149527762958.4/33

Left Out: 1.292 $\pm$ 0.000 χ^2/NDF : 9305298695.5/24

Right Out: 0.907 $\pm$ 0.000 χ^2/NDF : 143885391023.8/36

Left In: 1.272 $\pm$ 0.000 χ^2/NDF : 7573930981.2/22

Left: 1.282 $\pm$ 0.000 χ^2/NDF : 16930321584.4/47

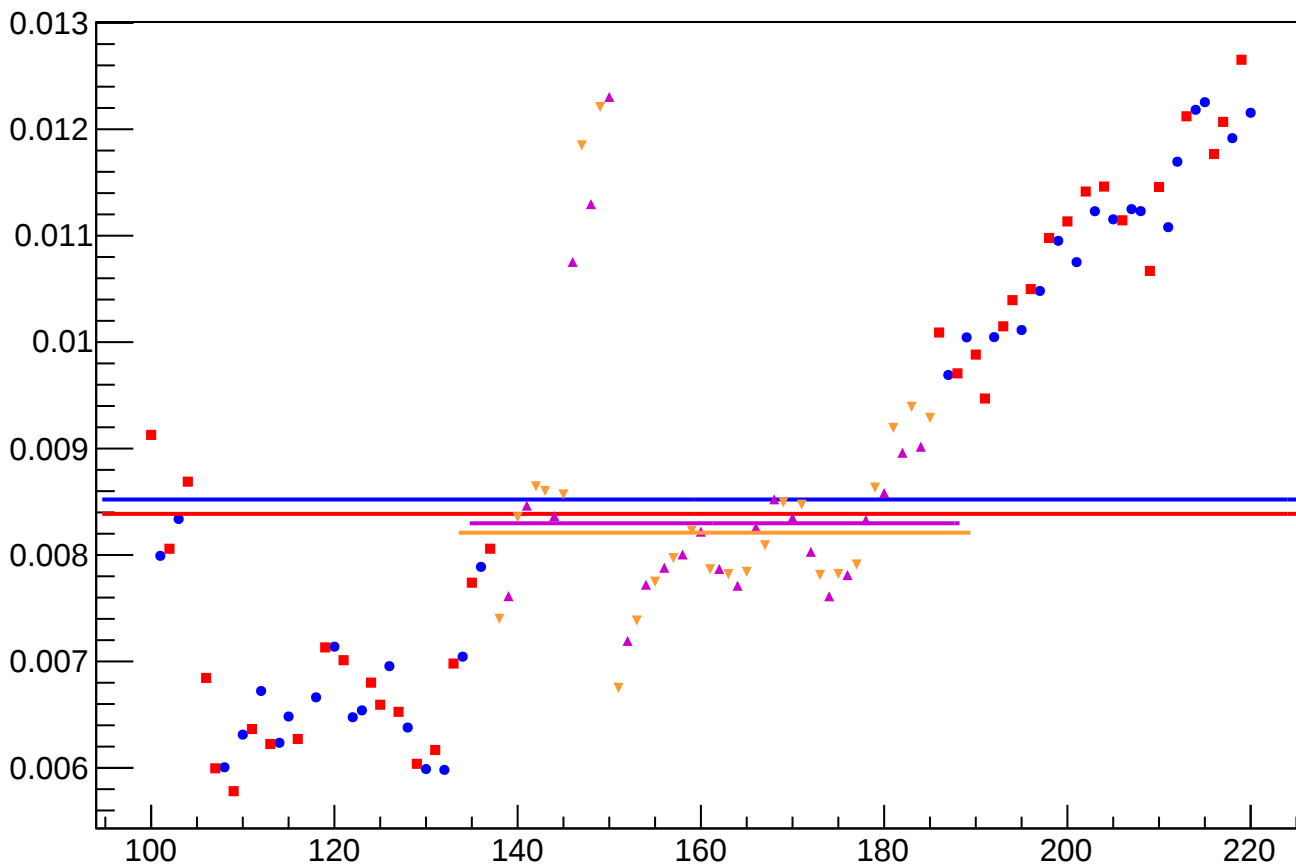
Right: 0.883 $\pm$ 0.000 χ^2/NDF : 293726930783.6/70

In: 1.065 $\pm$ 0.000 χ^2/NDF : 178037859894.7/56

Out: 1.101 $\pm$ 0.000 χ^2/NDF : 172474039625.8/61

All: 1.084 $\pm$ 0.000 χ^2/NDF : 350851891500.7

yield_bpm1i04X_rms vs Slug, Sign Corrected



Right In: 0.009+/-0.000 χ^2/NDF : 2419838.2/33

Left Out: 0.008+/-0.000 χ^2/NDF :478864.9/24

Right Out: 0.008+/-0.000 χ^2/NDF : 2528779.4/36

Left In: 0.008+/-0.000 χ^2/NDF :462022.1/22

Left: 0.008+/-0.000 χ^2/NDF : 942877.3/47

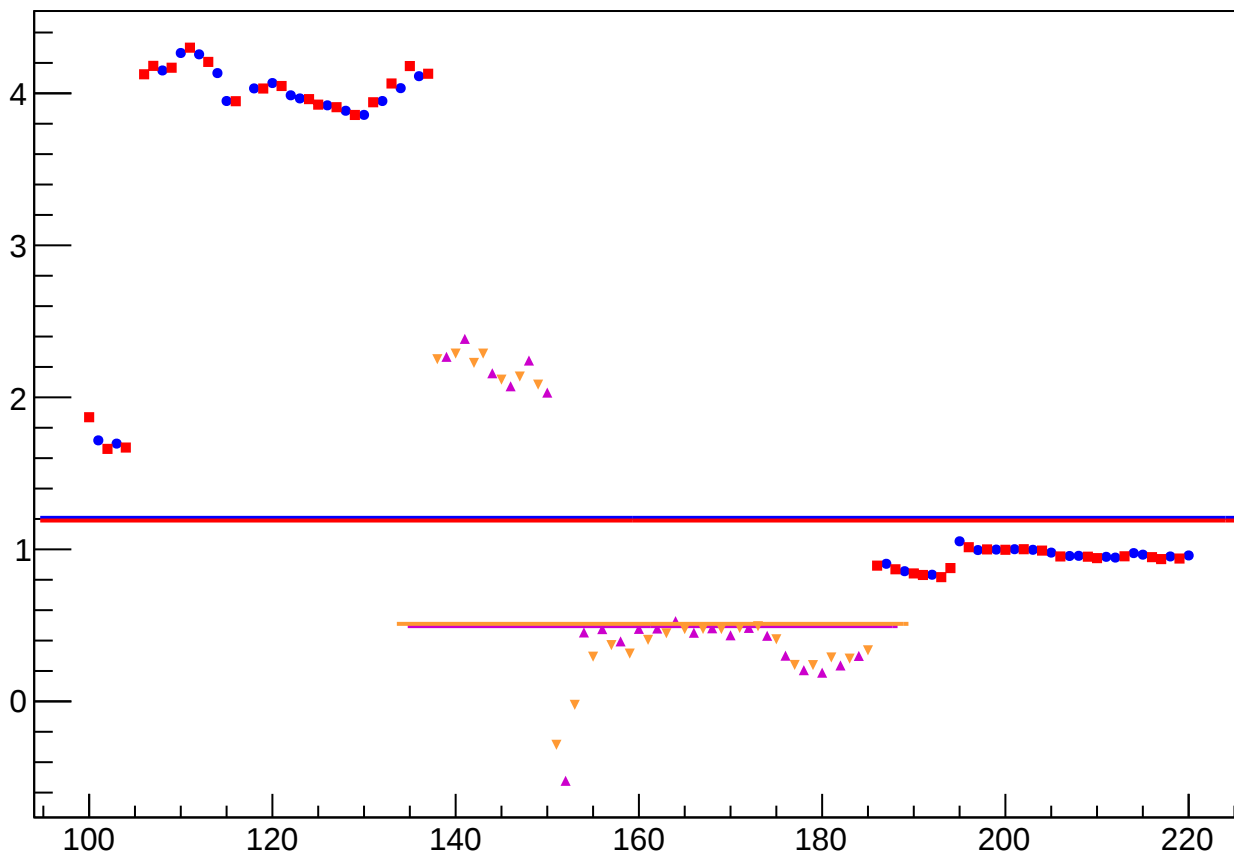
Right: 0.008+/-0.000 χ^2/NDF : 4953193.5/70

In: 0.008+/-0.000 χ^2/NDF :2893999.0/56

Out: 0.008+/-0.000 χ^2/NDF :3015798.2/61

All: 0.008+/-0.000 χ^2/NDF : 5916191.4/118

yield_bpm1i04Y_mean vs Slug, Sign Corrected



Right In: 1.207 $\pm$ 0.000 χ^2 /NDF: 1550470933158.0/33

Left Out: 0.510 $\pm$ 0.000 χ^2 /NDF: 274818814912.4/24

Right Out: 1.190 $\pm$ 0.000 χ^2 /NDF: 1740677528416.0/36

Left In: 0.495 $\pm$ 0.000 χ^2 /NDF: 268863202792.4/22

Left: 0.503 $\pm$ 0.000 χ^2 /NDF: 543767842878.3/47

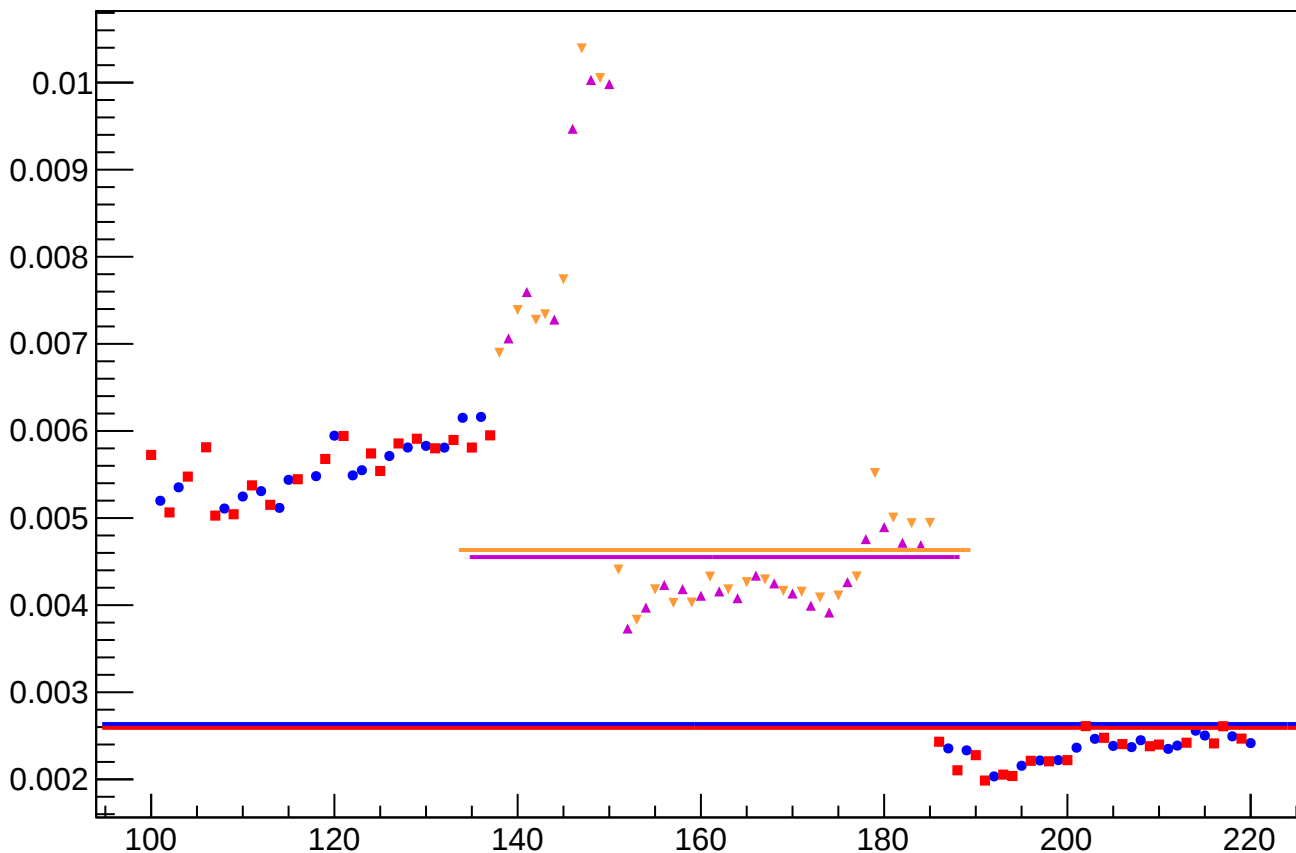
Right: 1.198 $\pm$ 0.000 χ^2 /NDF: 3291515235707.2/70

In: 1.031 $\pm$ 0.000 χ^2 /NDF: 2108567964711.1/56

Out: 1.025 $\pm$ 0.000 χ^2 /NDF: 2287344090755.5/61

All: 1.028 $\pm$ 0.000 χ^2 /NDF: 4395966062618.0/113

yield_bpm1i04Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 4209531.5/33

Left Out: 0.005+/-0.000 χ^2/NDF :2114007.7/24

Right Out: 0.003+/-0.000 χ^2/NDF : 4485704.3/36

Left In: 0.005+/-0.000 χ^2/NDF :2237666.9/22

Left: 0.005+/-0.000 χ^2/NDF : 4356682.7/47

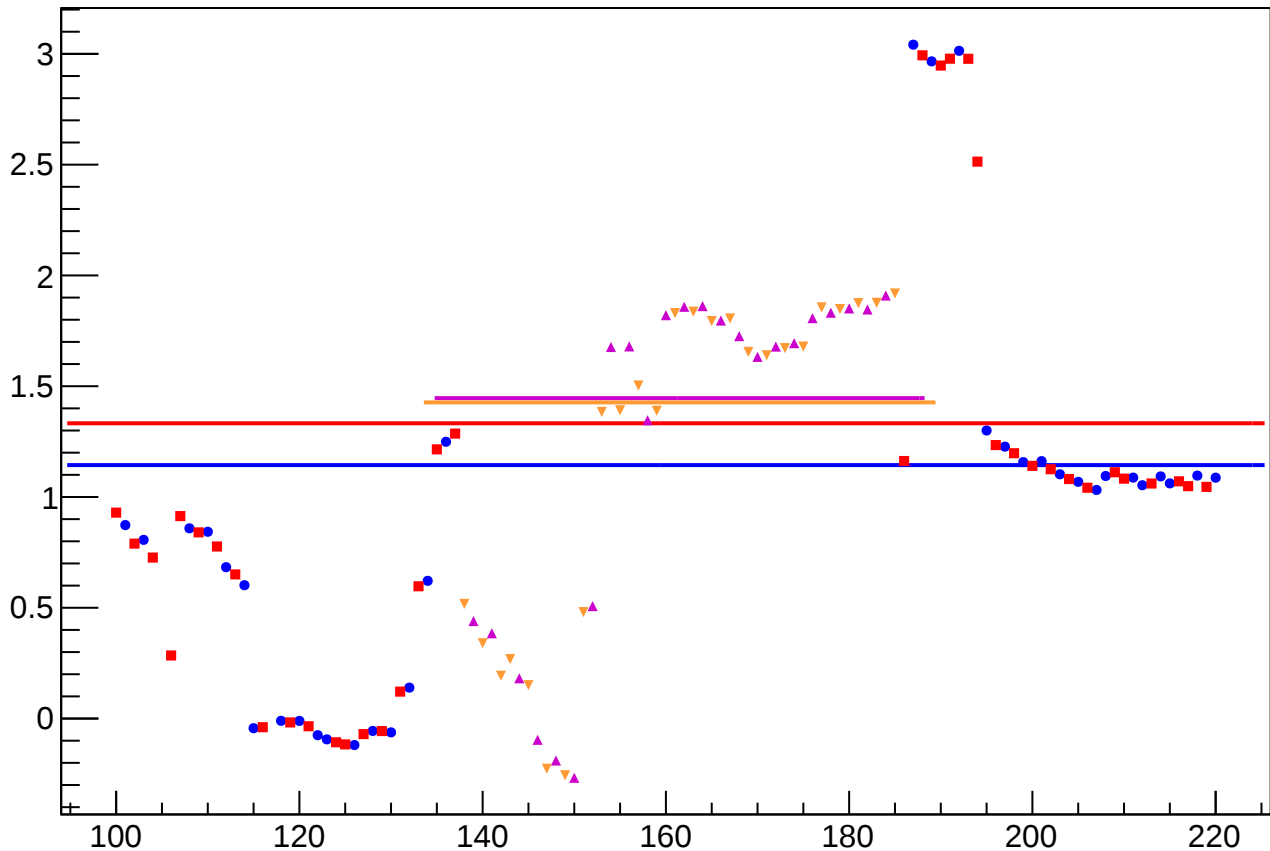
Right: 0.003+/-0.000 χ^2/NDF : 8699680.7/70

In: 0.003+/-0.000 χ^2/NDF :10637918.2/56

Out: 0.003+/-0.000 χ^2/NDF :11503619.1/61

All: 0.003+/-0.000 χ^2/NDF : 22143286.2/118

yield_bpm1i06X_mean vs Slug, Sign Corrected



Right In: 1.144+/-0.000 χ^2/NDF : 72925024707.8/33

Left Out: 1.427+/-0.000 χ^2/NDF : 49990787038.3/24

Right Out: 1.333+/-0.000 χ^2/NDF : 102152121825.7/36

Left In: 1.446+/-0.000 χ^2/NDF : 53752493130.3/22

Left: 1.436+/-0.000 χ^2/NDF : 103768857952.7/47

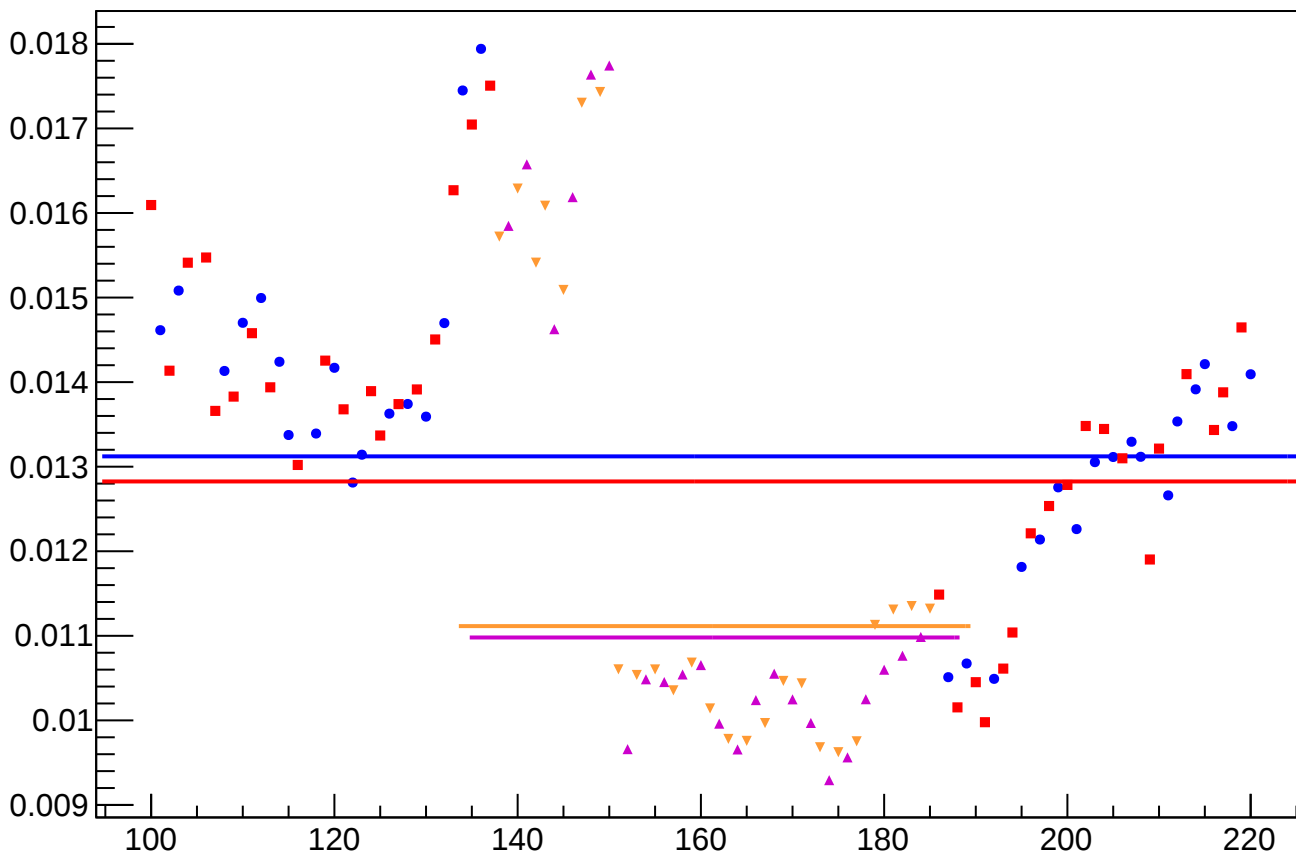
Right: 1.241+/-0.000 χ^2/NDF : 177059902261.3/70

In: 1.313+/-0.000 χ^2/NDF : 132193175628.8/56

Out: 1.385+/-0.000 χ^2/NDF : 152708161951.4/61

All: 1.350+/-0.000 χ^2/NDF : 285544402491.2

yield_bpm1i06X_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 463758.4/33

Left Out: 0.011+/-0.000 χ^2/NDF :1227493.2/24

Right Out: 0.013+/-0.000 χ^2/NDF : 622861.6/36

Left In: 0.011+/-0.000 χ^2/NDF :1264827.0/22

Left: 0.011+/-0.000 χ^2/NDF : 2494847.1/47

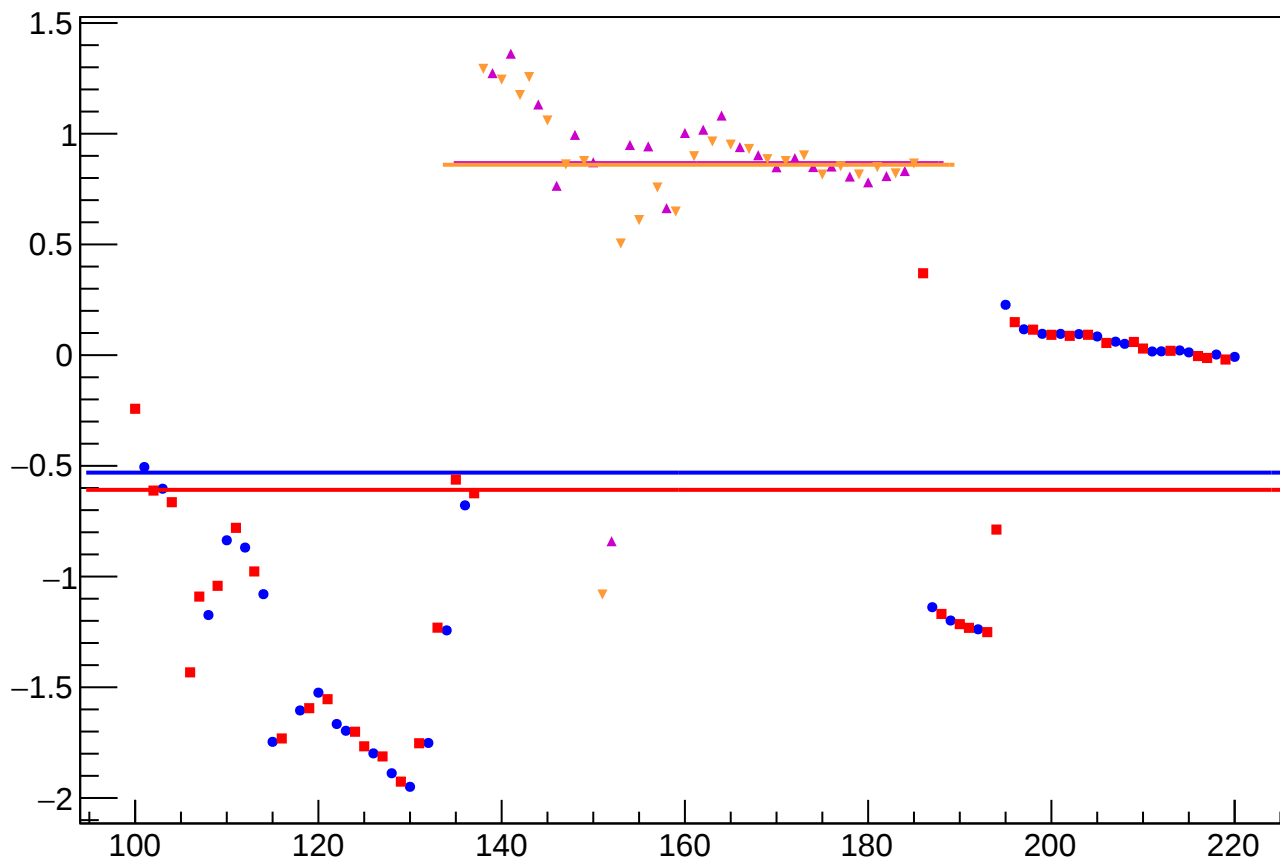
Right: 0.013+/-0.000 χ^2/NDF : 1096408.8/70

In: 0.012+/-0.000 χ^2/NDF :2282618.1/56

Out: 0.012+/-0.000 χ^2/NDF :2222442.3/61

All: 0.012+/-0.000 χ^2/NDF : 4505510.3/118

yield_bpm1i06Y_mean vs Slug, Sign Corrected



Right In: -0.531 $\pm$ 0.000 χ^2/NDF : 207785768135.0/33

Left Out: 0.860 $\pm$ 0.000 χ^2/NDF : 126335891175.4/24

Right Out: -0.608 $\pm$ 0.000 χ^2/NDF : 195383007382.3/36

Left In: 0.867 $\pm$ 0.000 χ^2/NDF : 147039402944.6/22

Left: 0.863 $\pm$ 0.000 χ^2/NDF : 273407894621.9/47

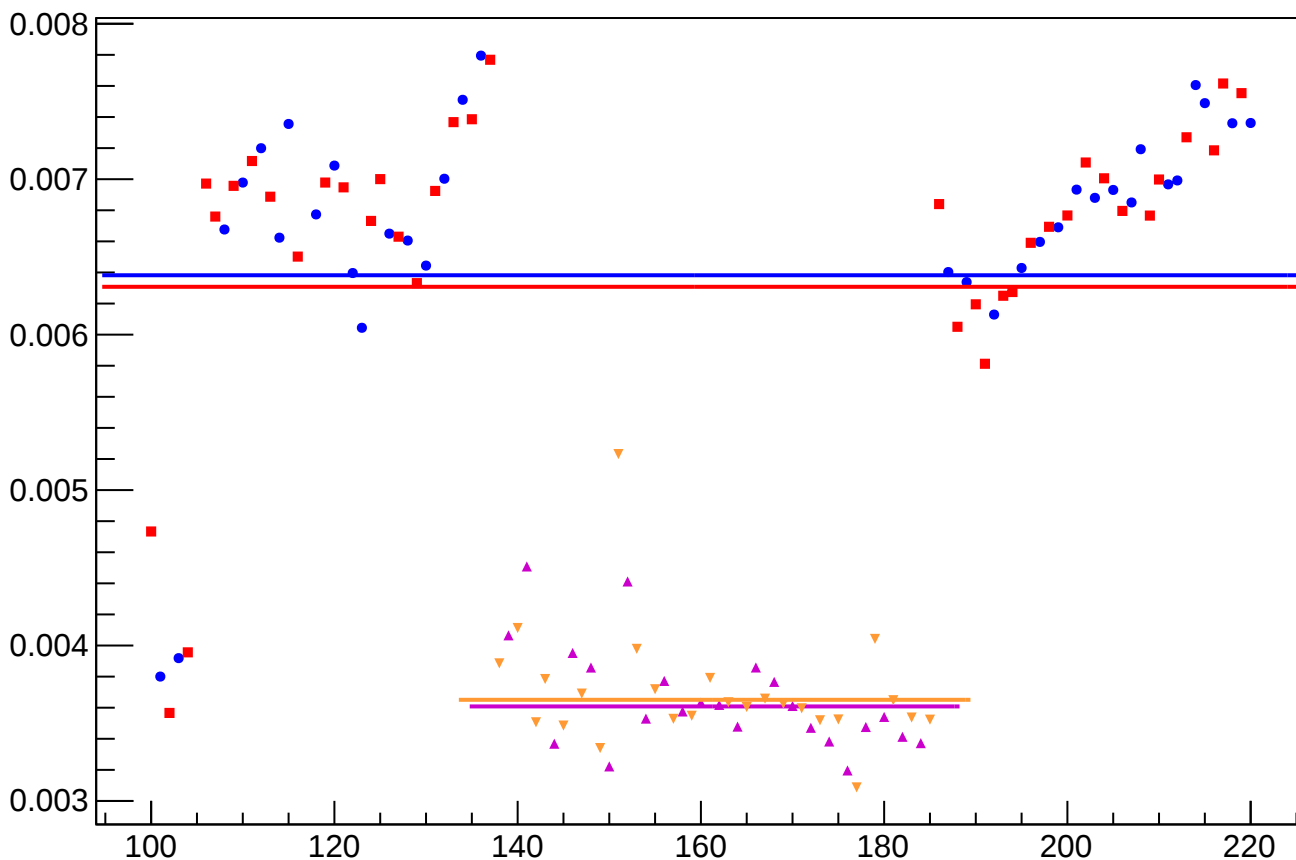
Right: -0.570 $\pm$ 0.000 χ^2/NDF : 404506204163.5/70

In: 0.499 $\pm$ 0.000 χ^2/NDF : 975920716589.3/56

Out: 0.470 $\pm$ 0.000 χ^2/NDF : 1038359523787.3/61

All: 0.484 $\pm$ 0.000 χ^2/NDF : 2014962683245

yield_bpm1i06Y_rms vs Slug, Sign Corrected



Right In: 0.006 $\pm$ 0.000 χ^2 /NDF: 1198350.9/33

Left Out: 0.004 $\pm$ 0.000 χ^2 /NDF:237262.6/24

Right Out: 0.006 $\pm$ 0.000 χ^2 /NDF: 1271155.4/36

Left In: 0.004 $\pm$ 0.000 χ^2 /NDF:227861.4/22

Left: 0.004 $\pm$ 0.000 χ^2 /NDF: 467360.2/47

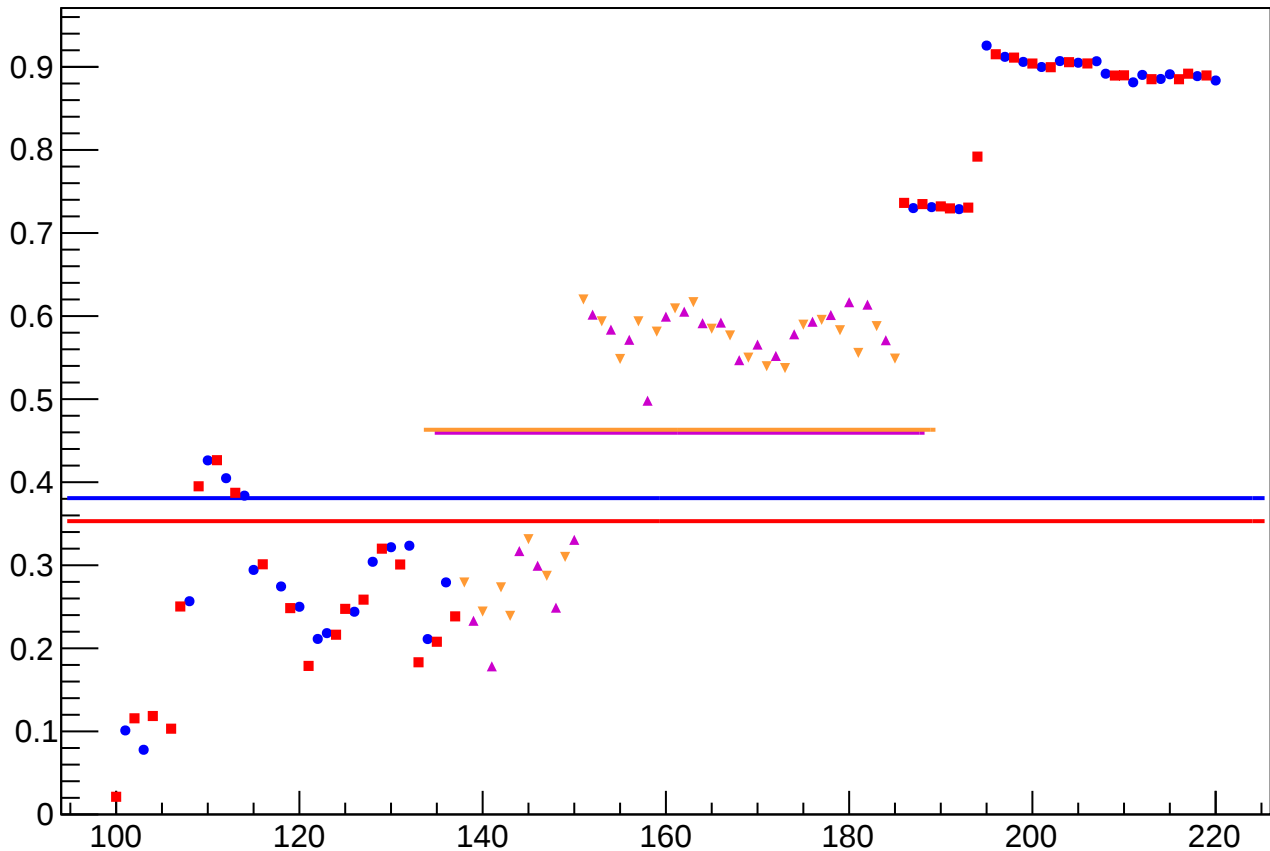
Right: 0.006 $\pm$ 0.000 χ^2 /NDF: 2471945.2/70

In: 0.004 $\pm$ 0.000 χ^2 /NDF:6318787.9/56

Out: 0.004 $\pm$ 0.000 χ^2 /NDF:6202030.1/61

All: 0.004 $\pm$ 0.000 χ^2 /NDF: 12521287.2/118

yield_bpm2i01X_mean vs Slug, Sign Corrected



Right In: 0.381+/-0.000 χ^2/NDF : 212302531971.0/33

Left Out: 0.463+/-0.000 χ^2/NDF : 102506270538.7/24

Right Out: 0.353+/-0.000 χ^2/NDF : 221247279862.7/36

Left In: 0.460+/-0.000 χ^2/NDF : 104559088628.4/22

Left: 0.461+/-0.000 χ^2/NDF : 207093695005.5/47

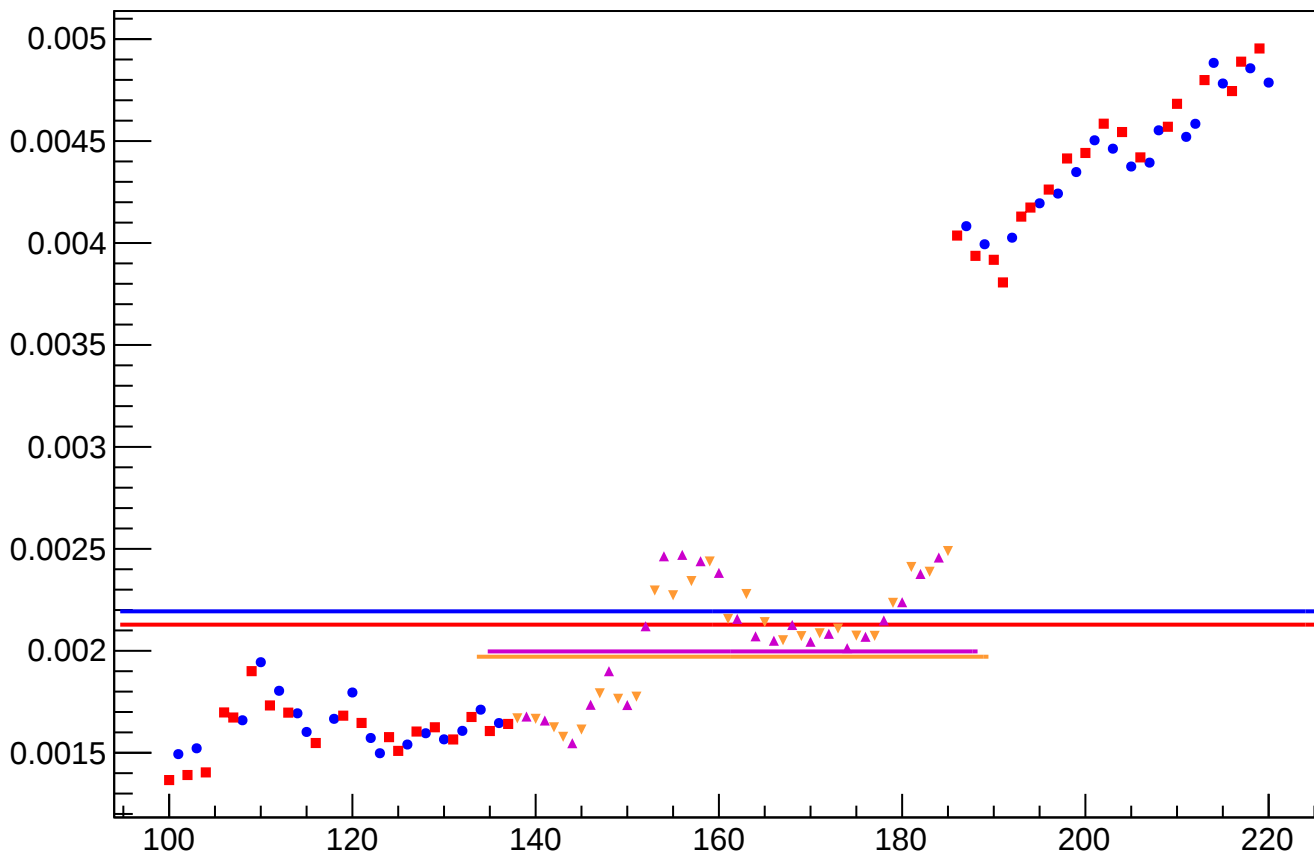
Right: 0.366+/-0.000 χ^2/NDF : 434776763541.6/70

In: 0.426+/-0.000 χ^2/NDF : 327828861927.6/56

Out: 0.417+/-0.000 χ^2/NDF : 347219512293.5/61

All: 0.421+/-0.000 χ^2/NDF : 675402483528.7

yield_bpm2i01X_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 7936703.5/33

Left Out: 0.002+/-0.000 χ^2/NDF : 730203.8/24

Right Out: 0.002+/-0.000 χ^2/NDF : 8287830.4/36

Left In: 0.002+/-0.000 χ^2/NDF : 666404.2/22

Left: 0.002+/-0.000 χ^2/NDF : 1399578.1/47

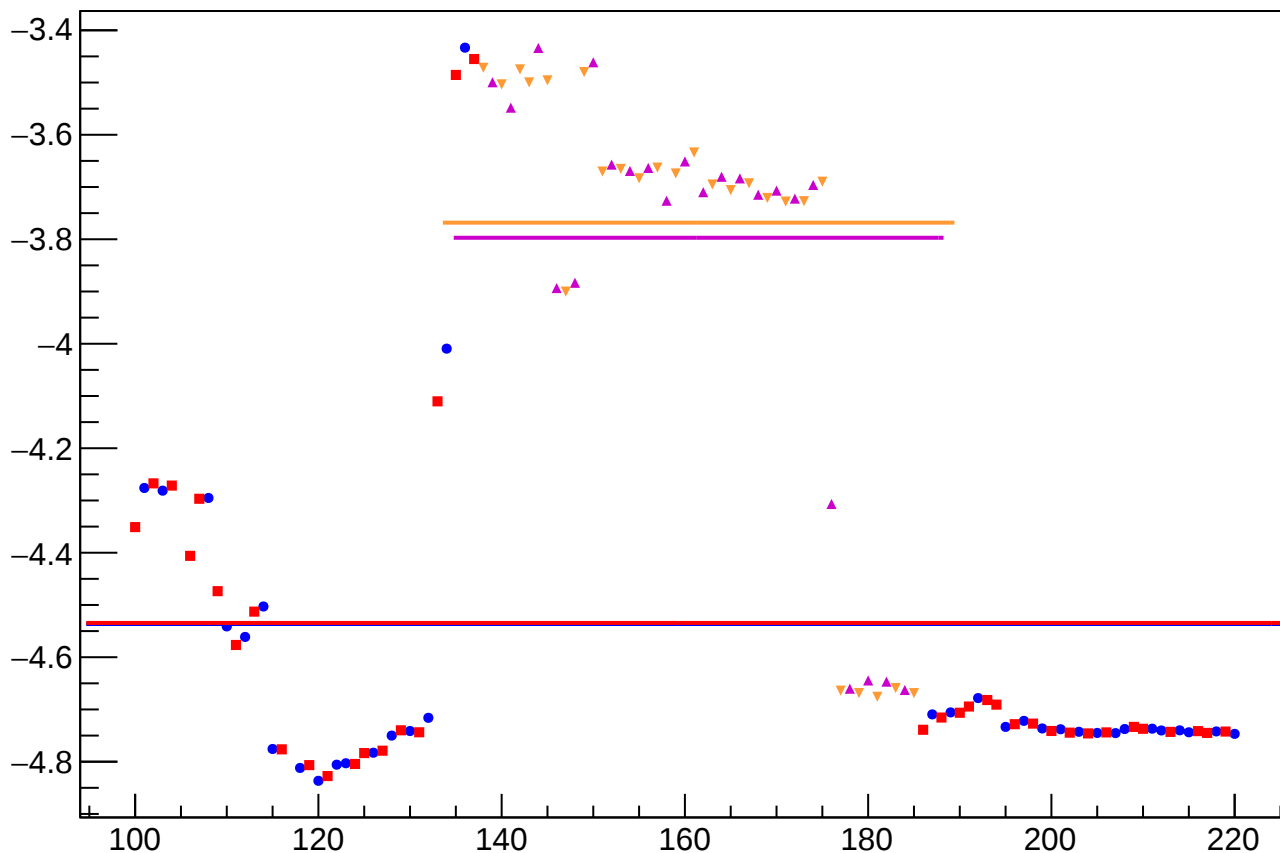
Right: 0.002+/-0.000 χ^2/NDF : 16238165.6/70

In: 0.002+/-0.000 χ^2/NDF : 8739858.8/56

Out: 0.002+/-0.000 χ^2/NDF : 9113898.2/61

All: 0.002+/-0.000 χ^2/NDF : 17867413.0/118

yield_bpm2i01Y_mean vs Slug, Sign Corrected



Right In: -4.536 $\pm$ 0.000 χ^2 /NDF: 451816809768.0/33

Left Out: -3.768 $\pm$ 0.000 χ^2 /NDF: 516780173940.8/24

Right Out: -4.534 $\pm$ 0.000 χ^2 /NDF: 386338333367.4/36

Left In: -3.797 $\pm$ 0.000 χ^2 /NDF: 444886272608.9/22

Left: -3.782 $\pm$ 0.000 χ^2 /NDF: 963205684454.6/47

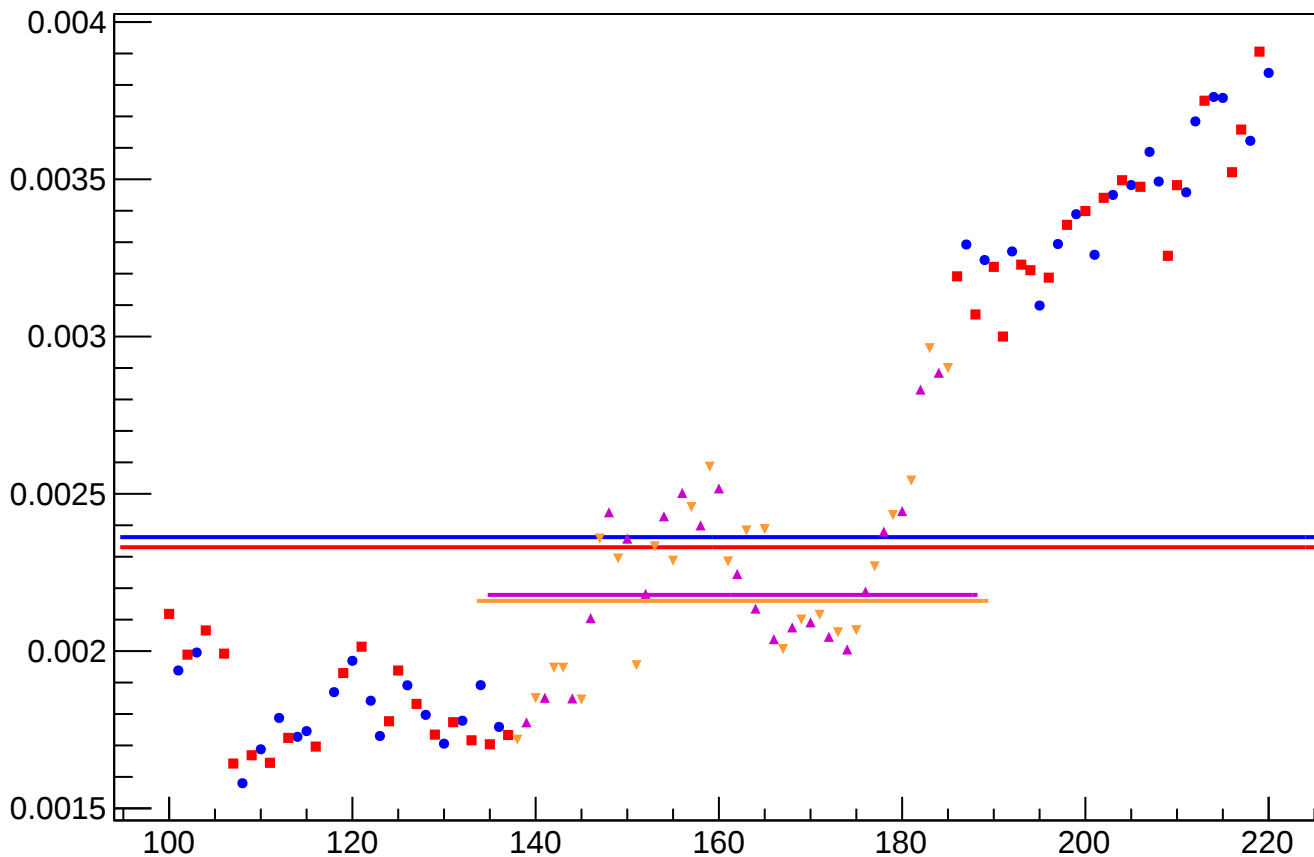
Right: -4.535 $\pm$ 0.000 χ^2 /NDF: 838161701076.5/70

In: -4.136 $\pm$ 0.000 χ^2 /NDF: 1787290224516.6/56

Out: -4.118 $\pm$ 0.000 χ^2 /NDF: 1925207597585.9/61

All: -4.127 $\pm$ 0.000 χ^2 /NDF: 3713644206922

yield_bpm2i01Y_rms vs Slug, Sign Corrected



Right In: 0.002+/-0.000 χ^2/NDF : 3807058.5/33

Left Out: 0.002+/-0.000 χ^2/NDF :547831.5/24

Right Out: 0.002+/-0.000 χ^2/NDF : 3752885.7/36

Left In: 0.002+/-0.000 χ^2/NDF :463279.7/22

Left: 0.002+/-0.000 χ^2/NDF : 1012449.5/47

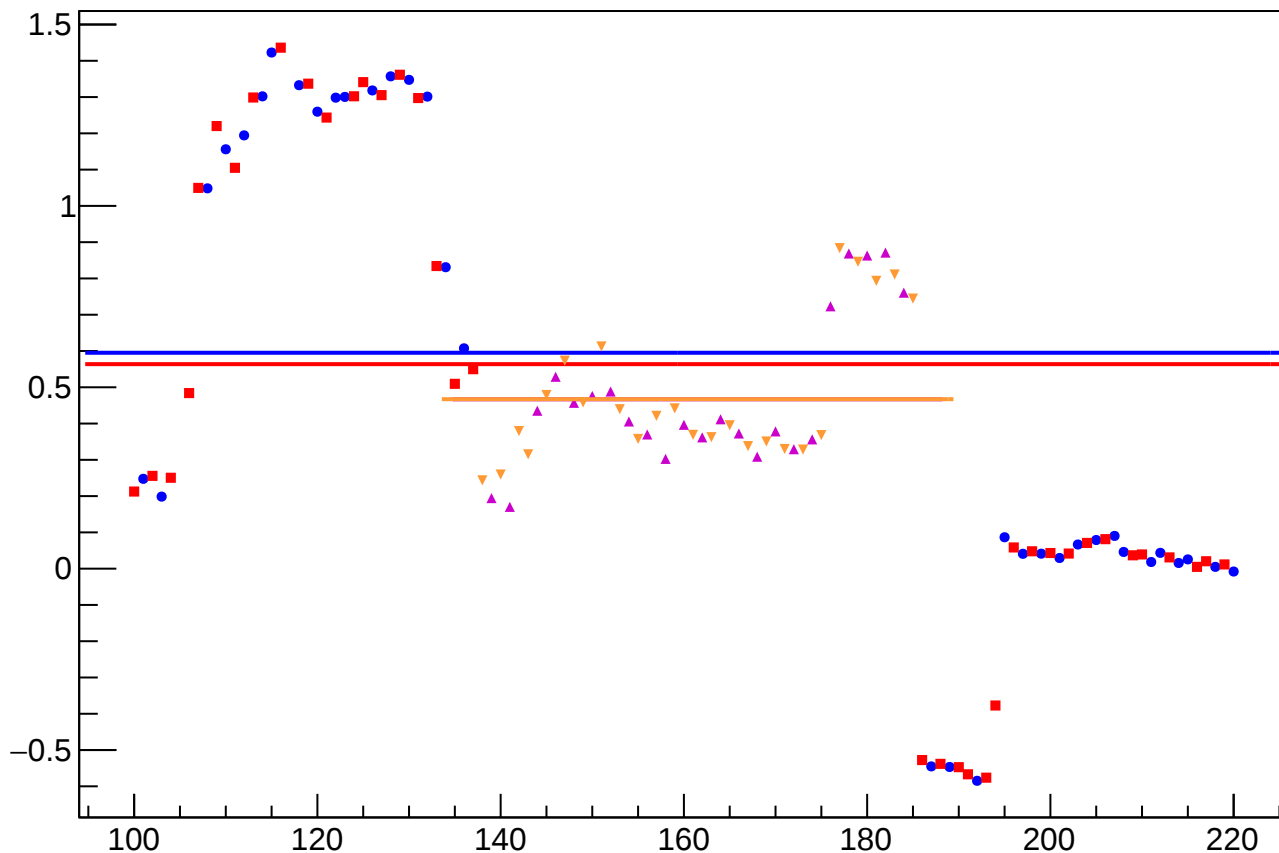
Right: 0.002+/-0.000 χ^2/NDF : 7563151.9/70

In: 0.002+/-0.000 χ^2/NDF :4380183.9/56

Out: 0.002+/-0.000 χ^2/NDF :4401985.2/61

All: 0.002+/-0.000 χ^2/NDF : 8786569.5/118

yield_bpm2i02X_mean vs Slug, Sign Corrected



Right In: 0.595 $\pm$ 0.000

χ^2 /NDF: 88764130109.2/33

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: 0.579 $\pm$ 0.000

χ^2 /NDF: 194133355190.2/70

Right Out: 0.564 $\pm$ 0.000

χ^2 /NDF: 105259930034.6/36

In: 0.534 $\pm$ 0.000

χ^2 /NDF: 98474208716.7/56

Out: 0.518 $\pm$ 0.000

χ^2 /NDF: 113642179148.2/61

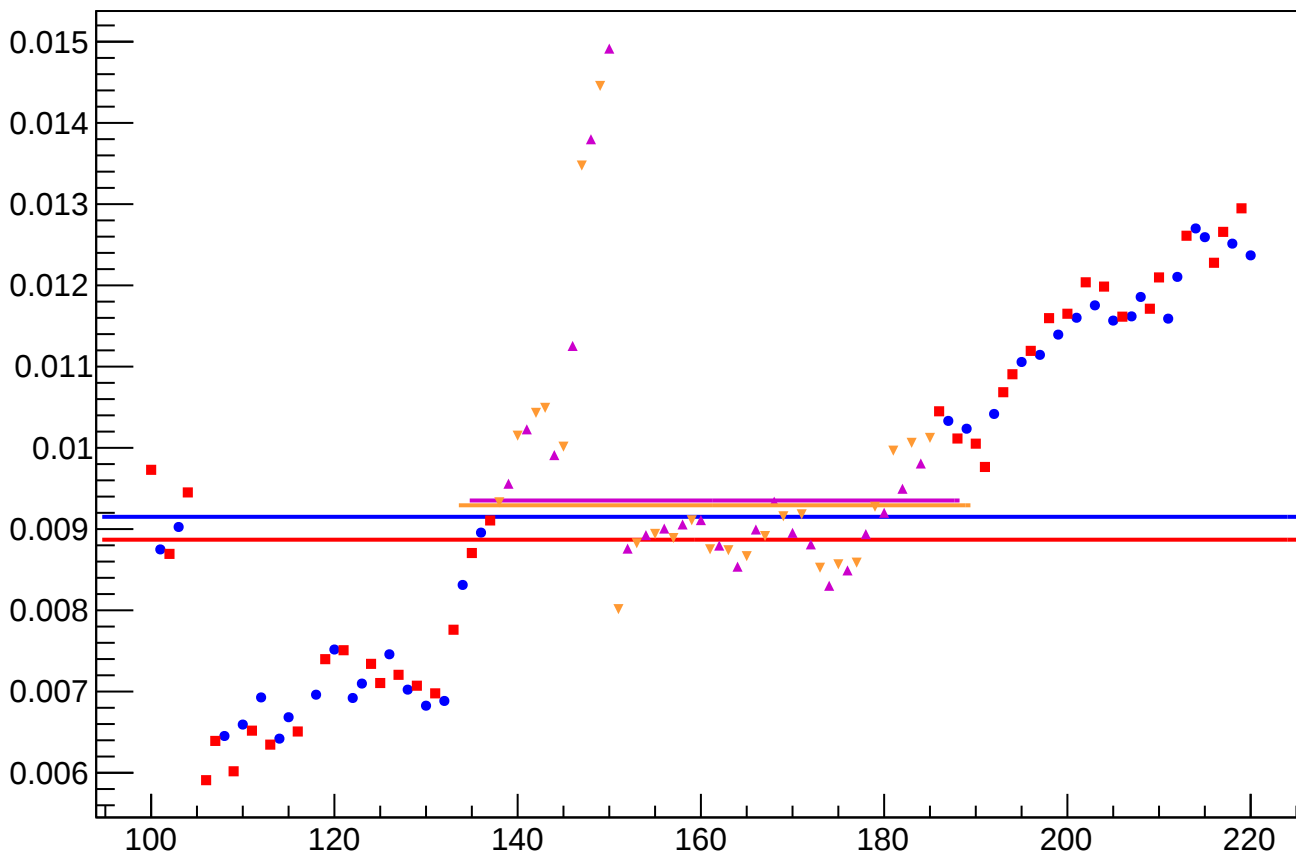
Left In: 0.467 $\pm$ 0.000

χ^2 /NDF: 8036741308.0/22

All: 0.526 $\pm$ 0.000

χ^2 /NDF: 212170718472.5

yield_bpm2i02X_rms vs Slug, Sign Corrected



Right In: 0.009+/-0.000 χ^2/NDF : 2122064.7/33

Left Out: 0.009+/-0.000 χ^2/NDF :528279.5/24

Right Out: 0.009+/-0.000 χ^2/NDF : 2491405.4/36

Left In: 0.009+/-0.000 χ^2/NDF :557555.2/22

Left: 0.009+/-0.000 χ^2/NDF : 1086539.3/47

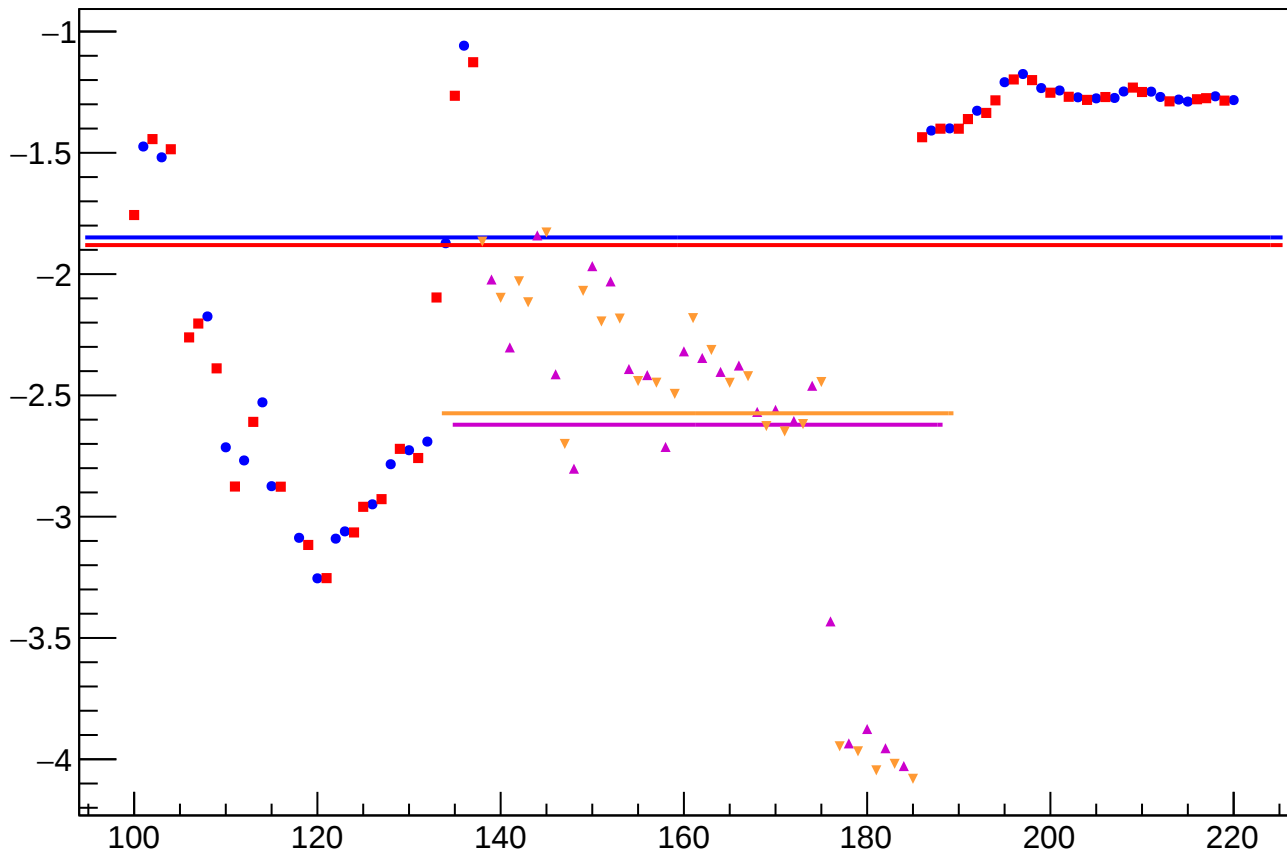
Right: 0.009+/-0.000 χ^2/NDF : 4631052.9/70

In: 0.009+/-0.000 χ^2/NDF :2687823.5/56

Out: 0.009+/-0.000 χ^2/NDF :3059034.8/61

All: 0.009+/-0.000 χ^2/NDF : 5760025.1/118

yield_bpm2i02Y_mean vs Slug, Sign Corrected



Right In: -1.849+/-0.000

χ^2/NDF : 140832859826.2/33

Left Out: -2.574+/-0.000

χ^2/NDF : 99176112704.9/24

Right Out: -1.880+/-0.000

χ^2/NDF : 137571010018.7/36

Left In: -2.621+/-0.000

χ^2/NDF : 80862402796.4/22

Left: -2.597+/-0.000

χ^2/NDF : 180296288698.4/47

Right: -1.865+/-0.000

χ^2/NDF : 278534773702.9/70

In: -2.210+/-0.000

χ^2/NDF : 292802333915.4/56

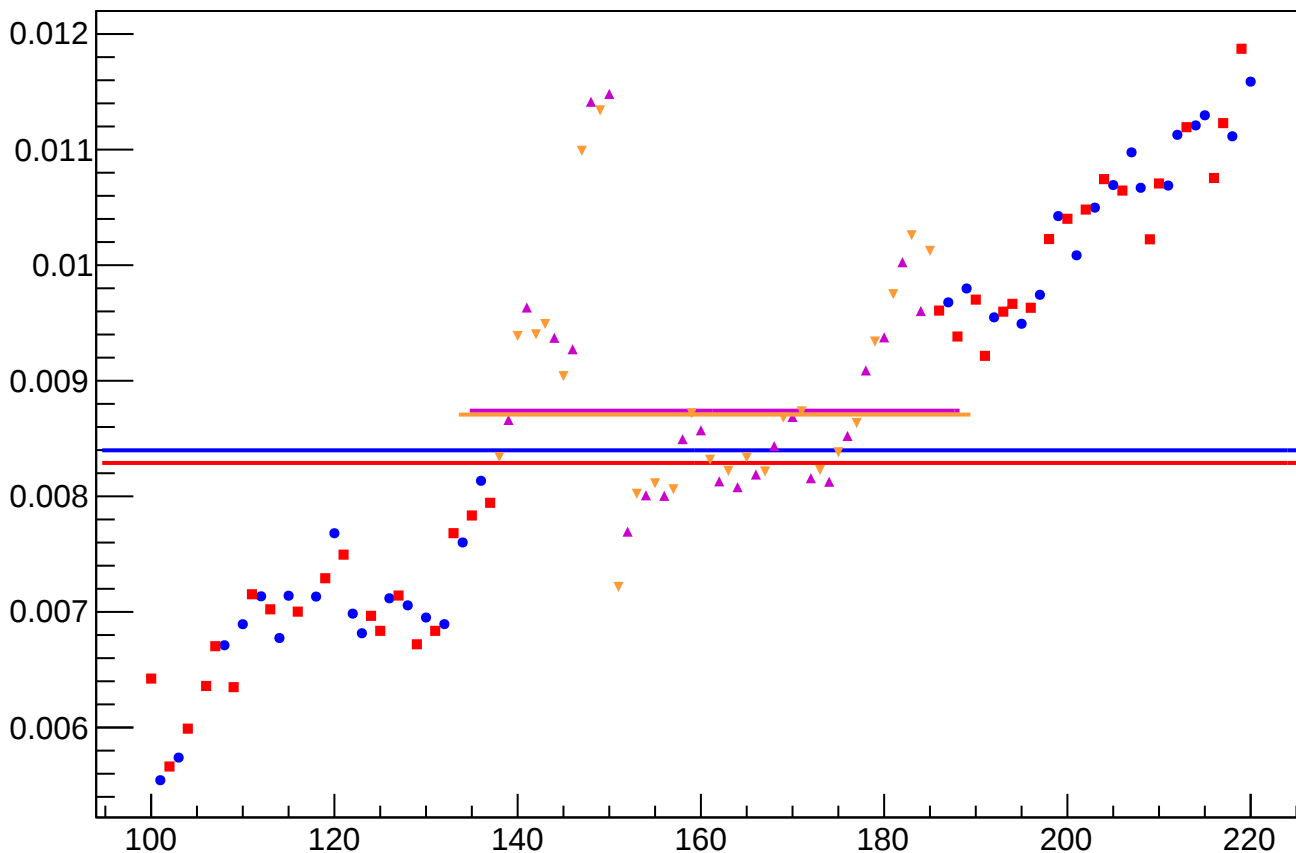
Out: -2.206+/-0.000

χ^2/NDF : 297835462773.1/61

All: -2.208+/-0.000

χ^2/NDF : 590642267537.1

yield_bpm2i02Y_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 1957518.8/33

Left Out: 0.009+/-0.000 χ^2/NDF : 369376.5/24

Right Out: 0.008+/-0.000 χ^2/NDF : 1862571.2/36

Left In: 0.009+/-0.000 χ^2/NDF : 353750.0/22

Left: 0.009+/-0.000 χ^2/NDF : 723390.7/47

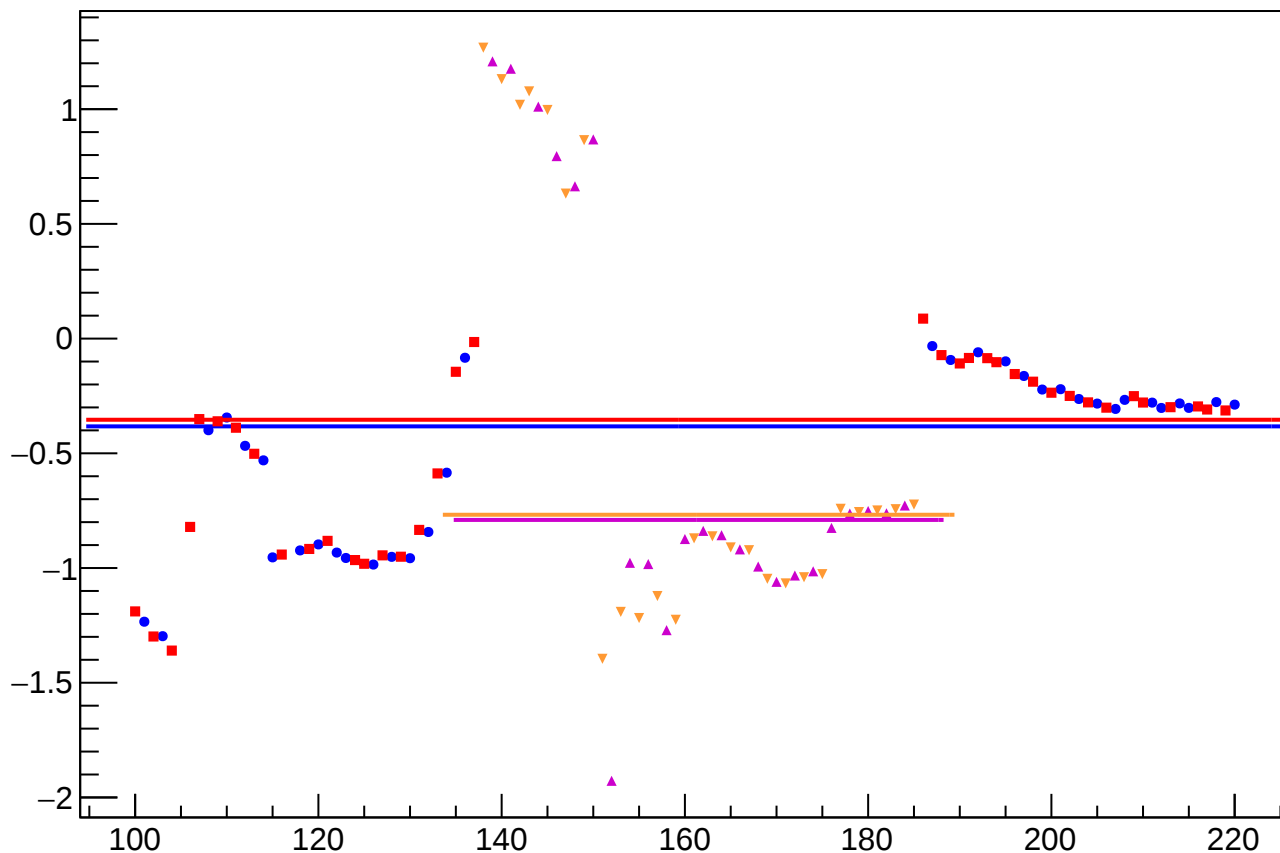
Right: 0.008+/-0.000 χ^2/NDF : 3823223.5/70

In: 0.009+/-0.000 χ^2/NDF : 2339332.2/56

Out: 0.008+/-0.000 χ^2/NDF : 2276453.4/61

All: 0.009+/-0.000 χ^2/NDF : 4618440.9/118

yield_bpm0i01X_mean vs Slug, Sign Corrected



Right In: -0.383+/-0.000 χ^2/NDF : 23252032821.6/33

Left Out: -0.768+/-0.000 χ^2/NDF : 120774855982.9/24

Right Out: -0.354+/-0.000 χ^2/NDF : 25379506405.3/36

Left In: -0.790+/-0.000 χ^2/NDF : 123452478408.2/22

Left: -0.779+/-0.000 χ^2/NDF : 244297726249.8/47

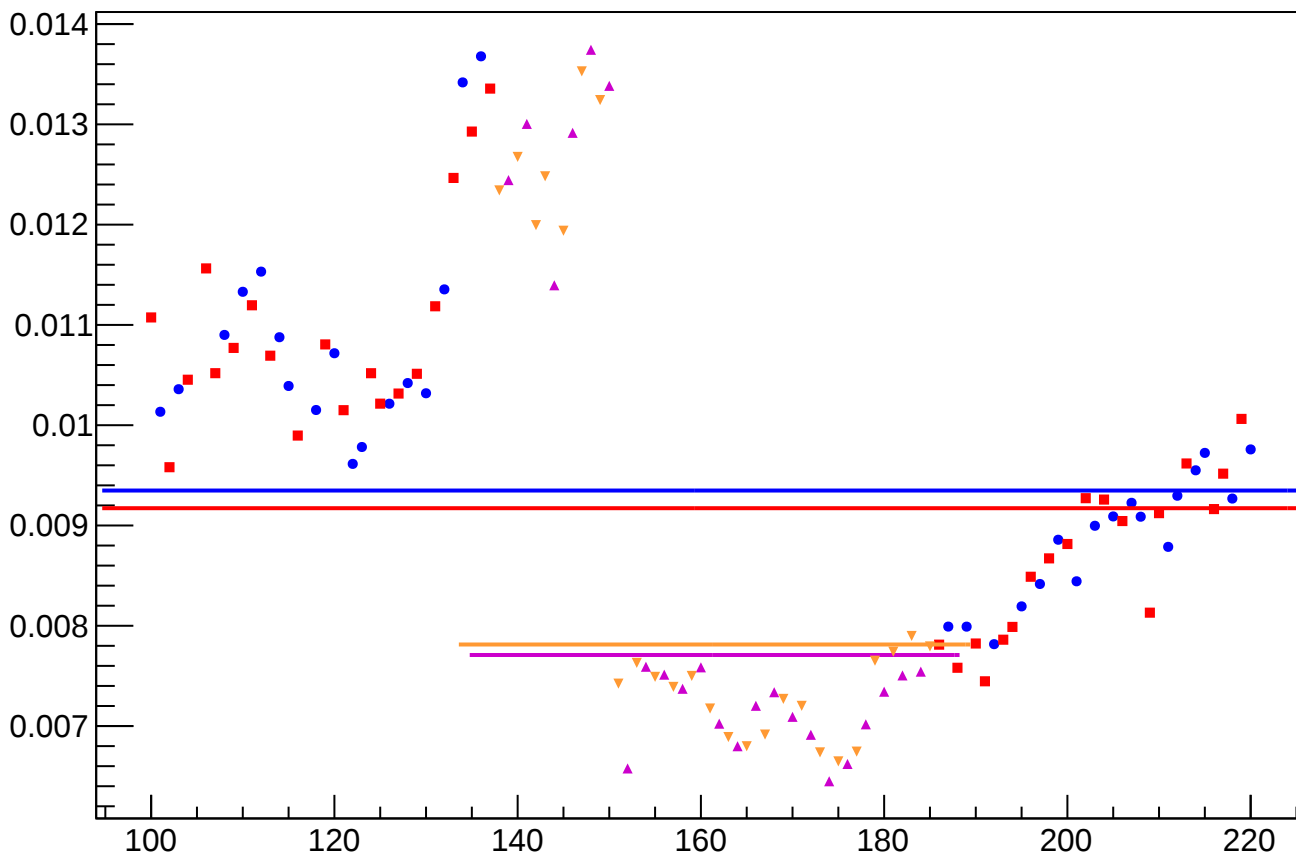
Right: -0.368+/-0.000 χ^2/NDF : 48721884388.1/70

In: -0.612+/-0.000 χ^2/NDF : 166455667475.6/56

Out: -0.585+/-0.000 χ^2/NDF : 167540909740.0/61

All: -0.598+/-0.000 χ^2/NDF : 334188422522.6

yield_bpm0i01X_rms vs Slug, Sign Corrected



Right In: 0.009+/-0.000 χ^2/NDF : 553520.1/33

Left Out: 0.008+/-0.000 χ^2/NDF :1705997.6/24

Right Out: 0.009+/-0.000 χ^2/NDF : 669731.0/36

Left In: 0.008+/-0.000 χ^2/NDF :1746653.6/22

Left: 0.008+/-0.000 χ^2/NDF : 3455681.9/47

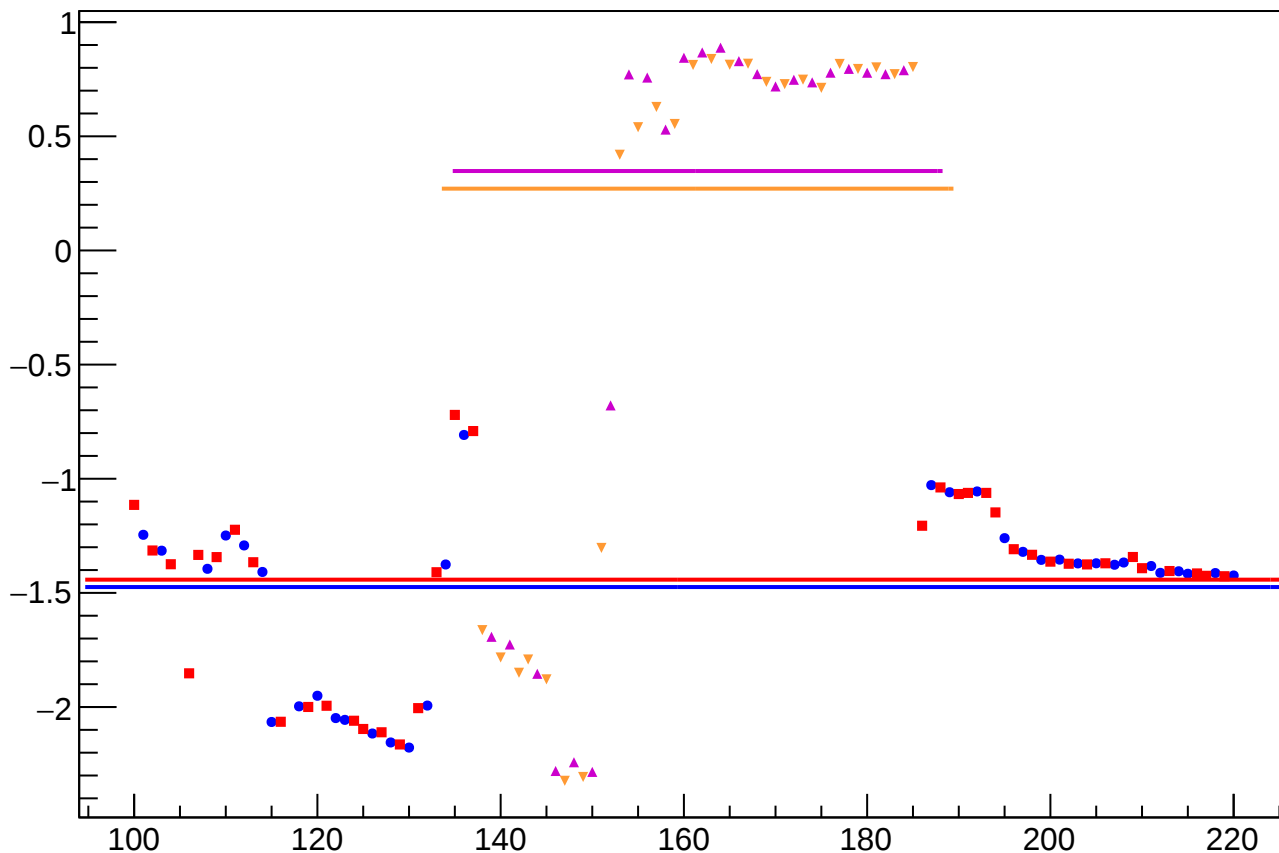
Right: 0.009+/-0.000 χ^2/NDF : 1229988.4/70

In: 0.008+/-0.000 χ^2/NDF :2939052.1/56

Out: 0.008+/-0.000 χ^2/NDF :2836534.5/61

All: 0.008+/-0.000 χ^2/NDF : 5775631.0/118

yield_bpm0i01Y_mean vs Slug, Sign Corrected



Right In: -1.474+/-0.000 χ^2/NDF : 175382363599.4/33

Left Out: 0.271+/-0.000 χ^2/NDF : 2583233987355.9/24

Right Out: -1.442+/-0.000 χ^2/NDF : 164581722207.8/36

Left In: 0.348+/-0.000 χ^2/NDF : 2274004426513.8/22

Left: 0.308+/-0.000 χ^2/NDF : 4864843200778.2/47

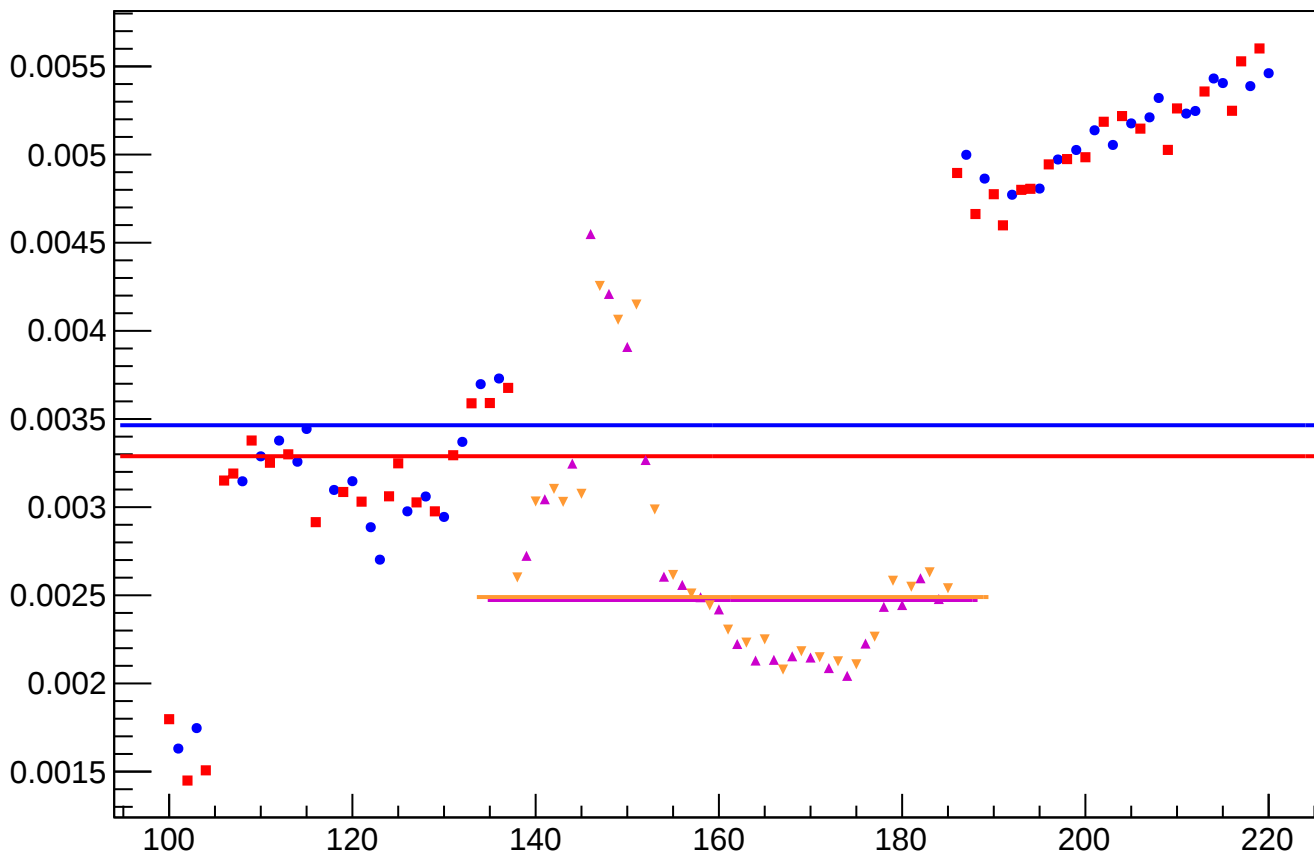
Right: -1.457+/-0.000 χ^2/NDF : 340679933748.4/70

In: -0.279+/-0.000 χ^2/NDF : 5287004990124.8/56

Out: -0.336+/-0.000 χ^2/NDF : 5474216256394.0/61

All: -0.309+/-0.000 χ^2/NDF : 1076760287239

yield_bpm0i01Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 4930566.6/33

Left Out: 0.002+/-0.000 χ^2/NDF :1070282.7/24

Right Out: 0.003+/-0.000 χ^2/NDF : 5963002.0/36

Left In: 0.002+/-0.000 χ^2/NDF :1135279.8/22

Left: 0.002+/-0.000 χ^2/NDF : 2206266.8/47

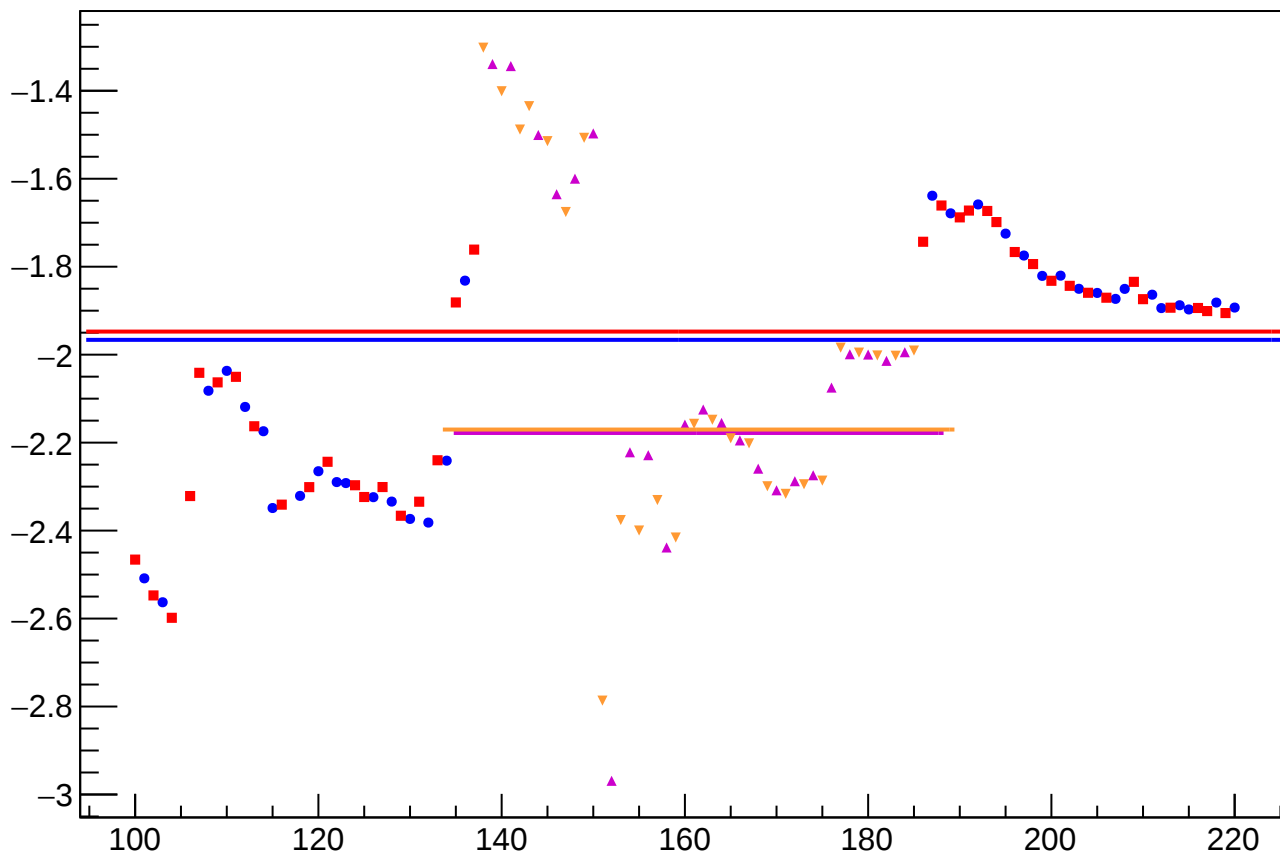
Right: 0.003+/-0.000 χ^2/NDF : 10935801.7/70

In: 0.003+/-0.000 χ^2/NDF :7744819.5/56

Out: 0.003+/-0.000 χ^2/NDF :8219513.9/61

All: 0.003+/-0.000 χ^2/NDF : 15971046.2/118

yield_bpm0i01aX_mean vs Slug, Sign Corrected



Right In: -1.966+/-0.000 χ^2/NDF : 31802391978.5/33

Left Out: -2.170+/-0.000 χ^2/NDF : 59967315241.9/24

Right Out: -1.947+/-0.000 χ^2/NDF : 35464956965.8/36

Left In: -2.178+/-0.000 χ^2/NDF : 73402051113.3/22

Left: -2.174+/-0.000 χ^2/NDF : 133392029481.5/47

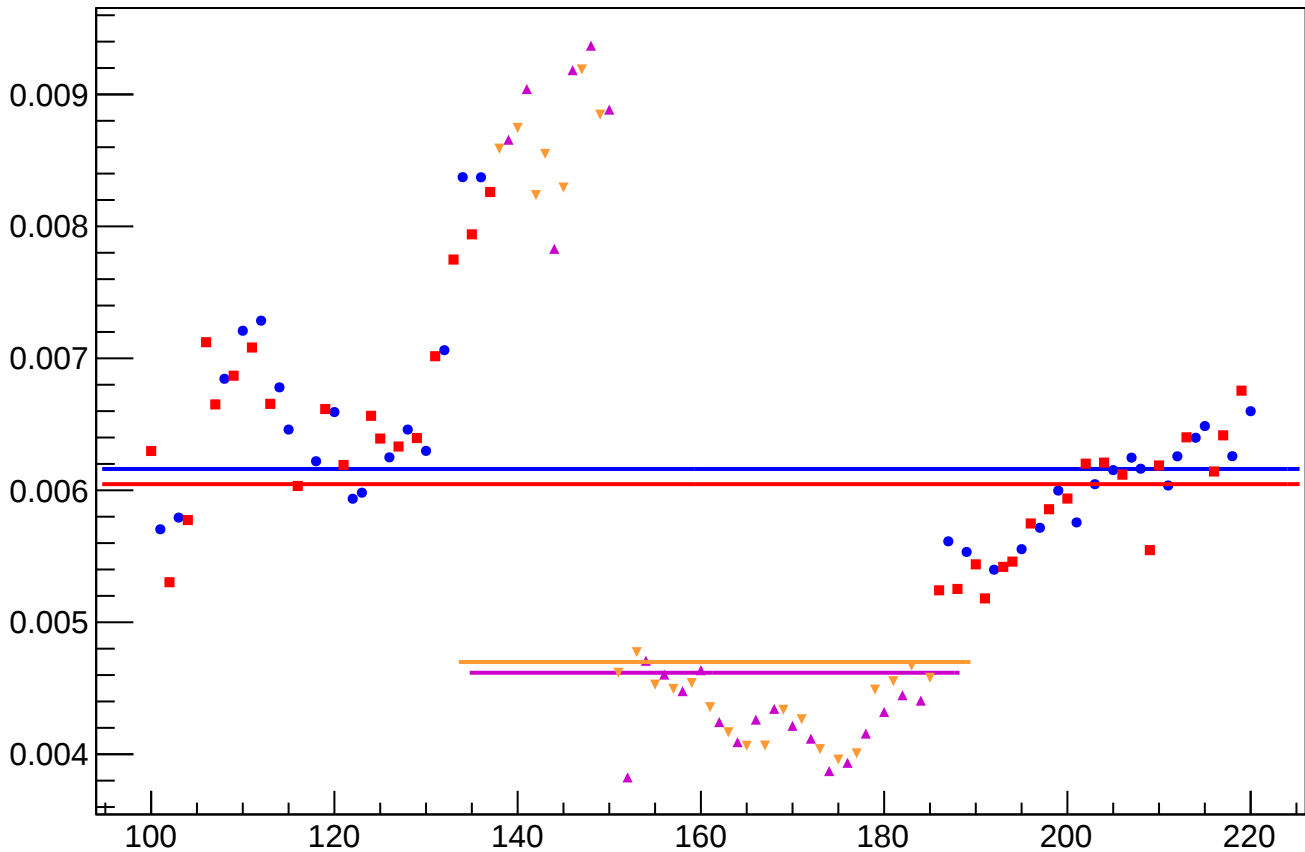
Right: -1.957+/-0.000 χ^2/NDF : 67356006902.3/70

In: -2.094+/-0.000 χ^2/NDF : 118279811023.3/56

Out: -2.080+/-0.000 χ^2/NDF : 110637038851.7/61

All: -2.087+/-0.000 χ^2/NDF : 229036806120.1

yield_bpm0i01aX_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 318010.8/33

Left Out: 0.005+/-0.000 χ^2/NDF :2319588.7/24

Right Out: 0.006+/-0.000 χ^2/NDF : 394915.4/36

Left In: 0.005+/-0.000 χ^2/NDF :2367440.9/22

Left: 0.005+/-0.000 χ^2/NDF : 4691984.4/47

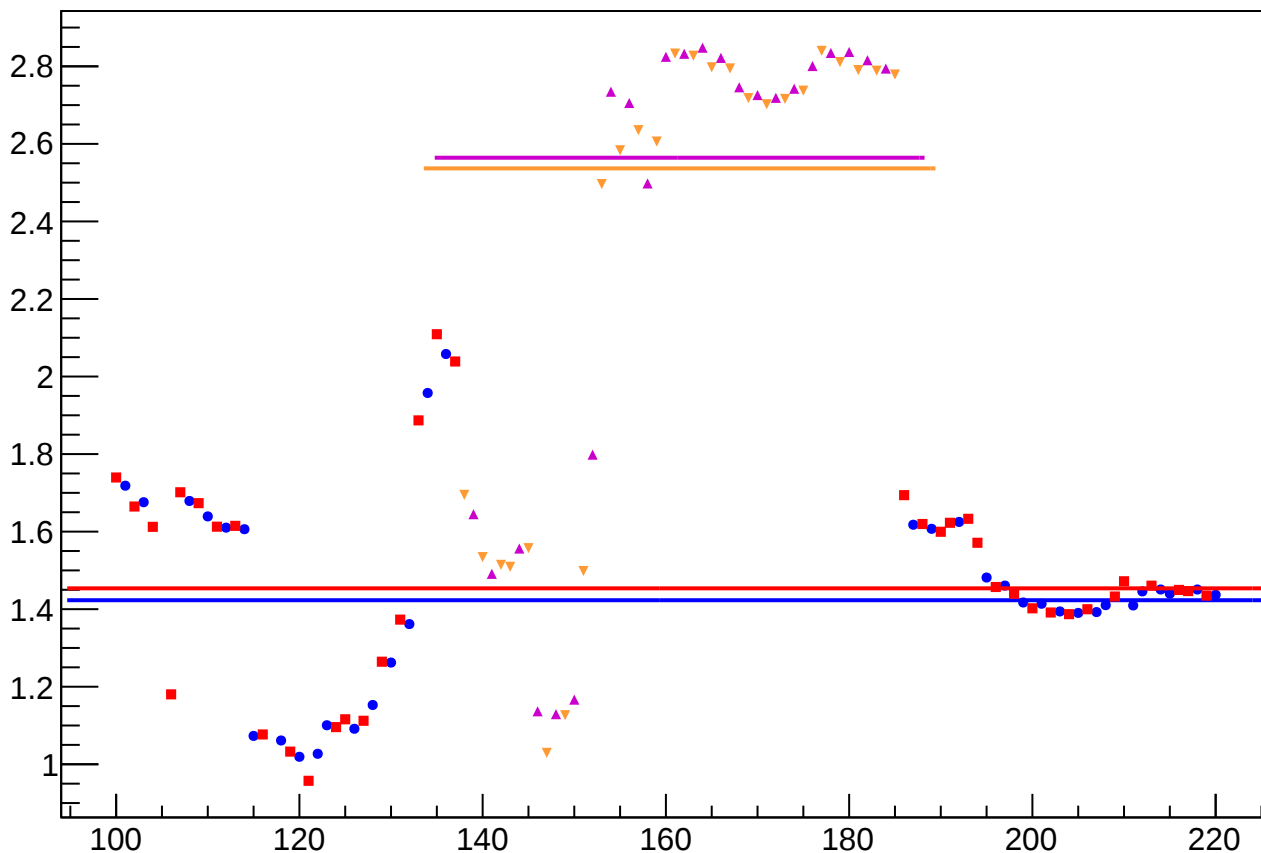
Right: 0.006+/-0.000 χ^2/NDF : 719532.3/70

In: 0.005+/-0.000 χ^2/NDF :4076679.6/56

Out: 0.005+/-0.000 χ^2/NDF :3827678.0/61

All: 0.005+/-0.000 χ^2/NDF : 7904585.2/118

yield_bpm0i01aY_mean vs Slug, Sign Corrected



Right In: 1.423+/-0.000 χ^2/NDF : 174218590594.2/33

Left Out: 2.537+/-0.000 χ^2/NDF : 269554948115.3/24

Right Out: 1.454+/-0.000 χ^2/NDF : 177008991644.1/36

Left In: 2.564+/-0.000 χ^2/NDF : 260287937727.8/22

Left: 2.550+/-0.000 χ^2/NDF : 530319507083.6/47

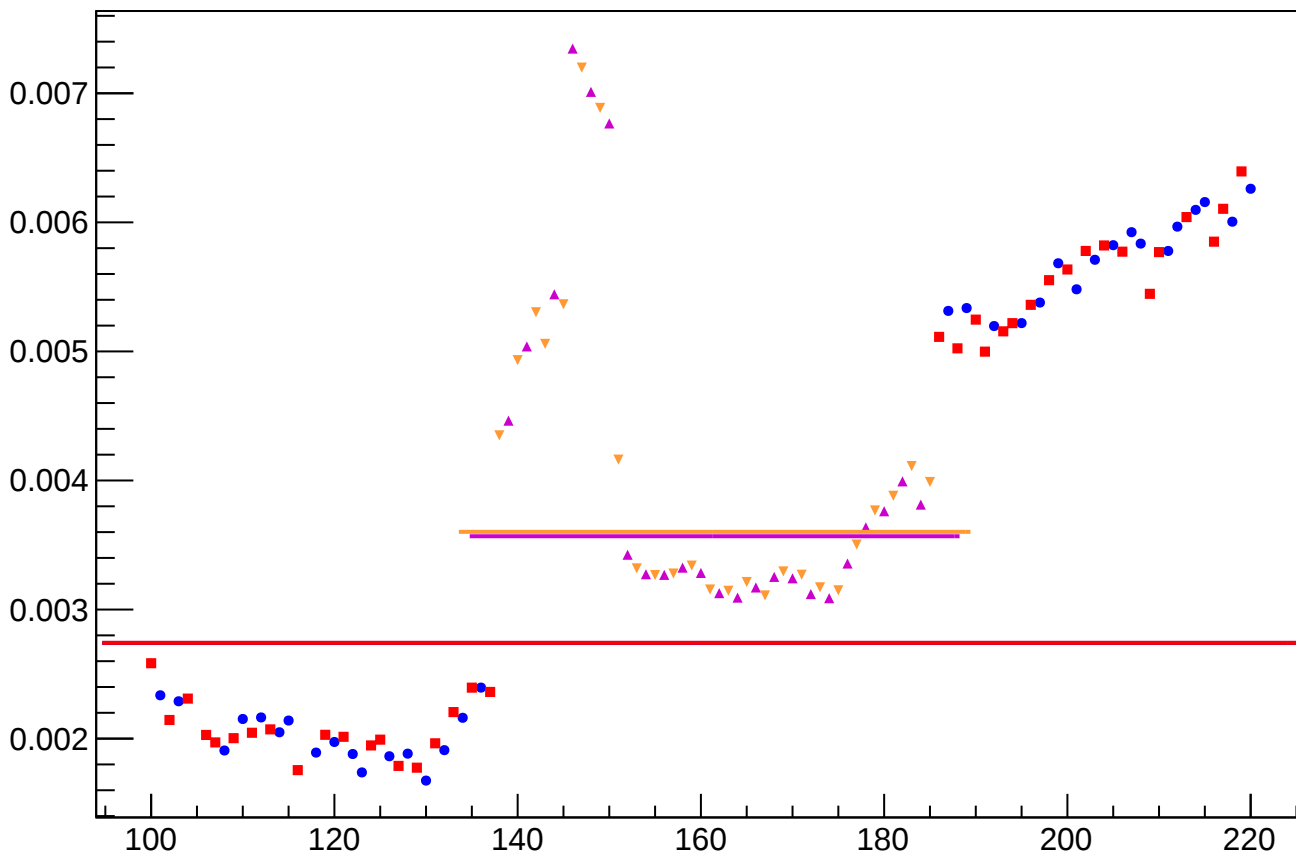
Right: 1.439+/-0.000 χ^2/NDF : 352134685066.6/70

In: 1.872+/-0.000 χ^2/NDF : 1403312942995.8/56

Out: 1.882+/-0.000 χ^2/NDF : 1360262940695.4/61

All: 1.877+/-0.000 χ^2/NDF : 2763731869126.

yield_bpm0i01aY_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 8378681.6/33

Left Out: 0.004+/-0.000 χ^2/NDF :1410717.8/24

Right Out: 0.003+/-0.000 χ^2/NDF : 8141774.3/36

Left In: 0.004+/-0.000 χ^2/NDF :1563028.0/22

Left: 0.004+/-0.000 χ^2/NDF : 2975225.3/47

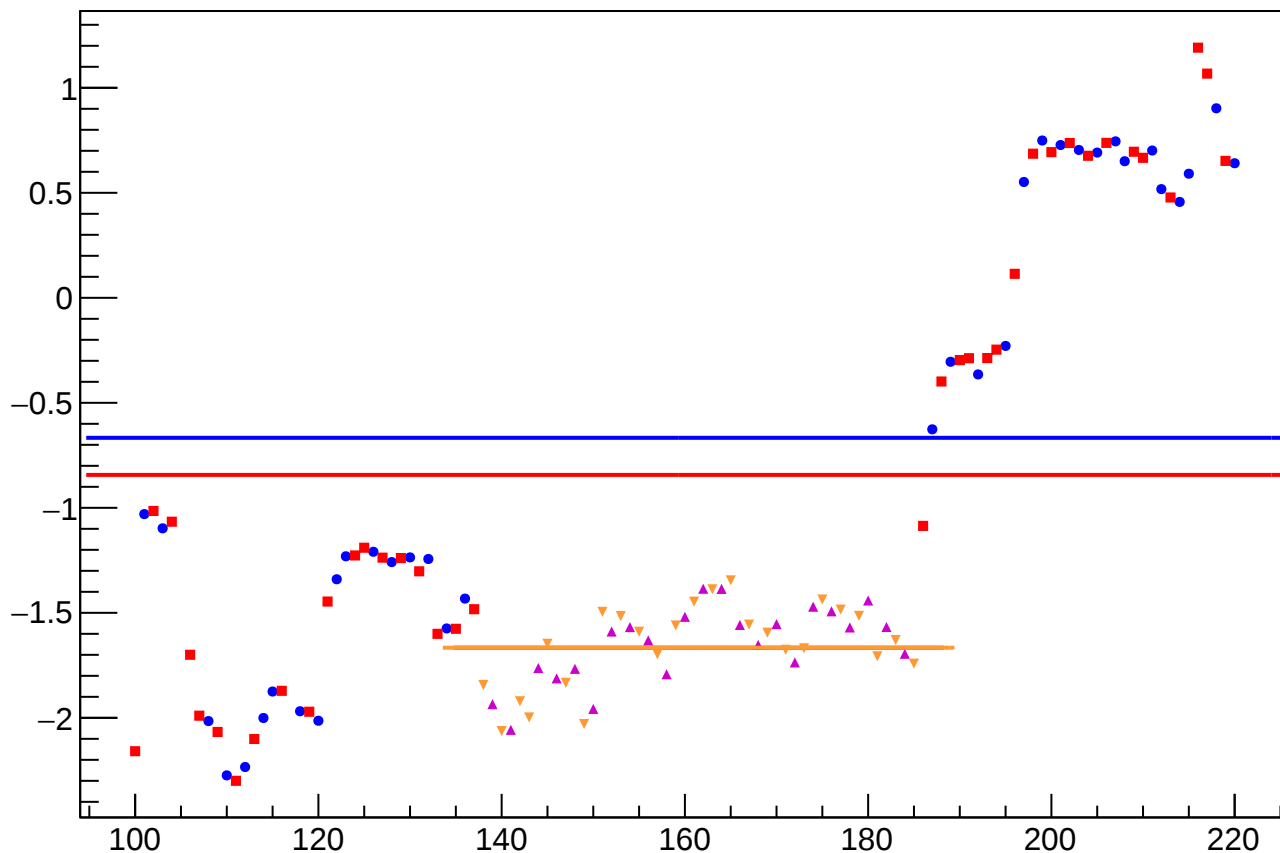
Right: 0.003+/-0.000 χ^2/NDF : 16520457.0/70

In: 0.003+/-0.000 χ^2/NDF :10958197.0/56

Out: 0.003+/-0.000 χ^2/NDF :10705102.8/61

All: 0.003+/-0.000 χ^2/NDF : 21664081.1/118

yield_bpm0l01X_mean vs Slug, Sign Corrected



Right In: -0.667+/-0.000

χ^2/NDF : 264176360117.6/33

Left: -1.666+/-0.000

χ^2/NDF : 32617732948.1/47

Left Out: -1.666+/-0.000

χ^2/NDF : 18325162131.2/24

Right: -0.760+/-0.000

χ^2/NDF : 569938084239.2/70

Right Out: -0.843+/-0.000

χ^2/NDF : 301797006016.5/36

In: -1.296+/-0.000

χ^2/NDF : 430037053603.4/56

Out: -1.354+/-0.000

χ^2/NDF : 433187101695.9/61

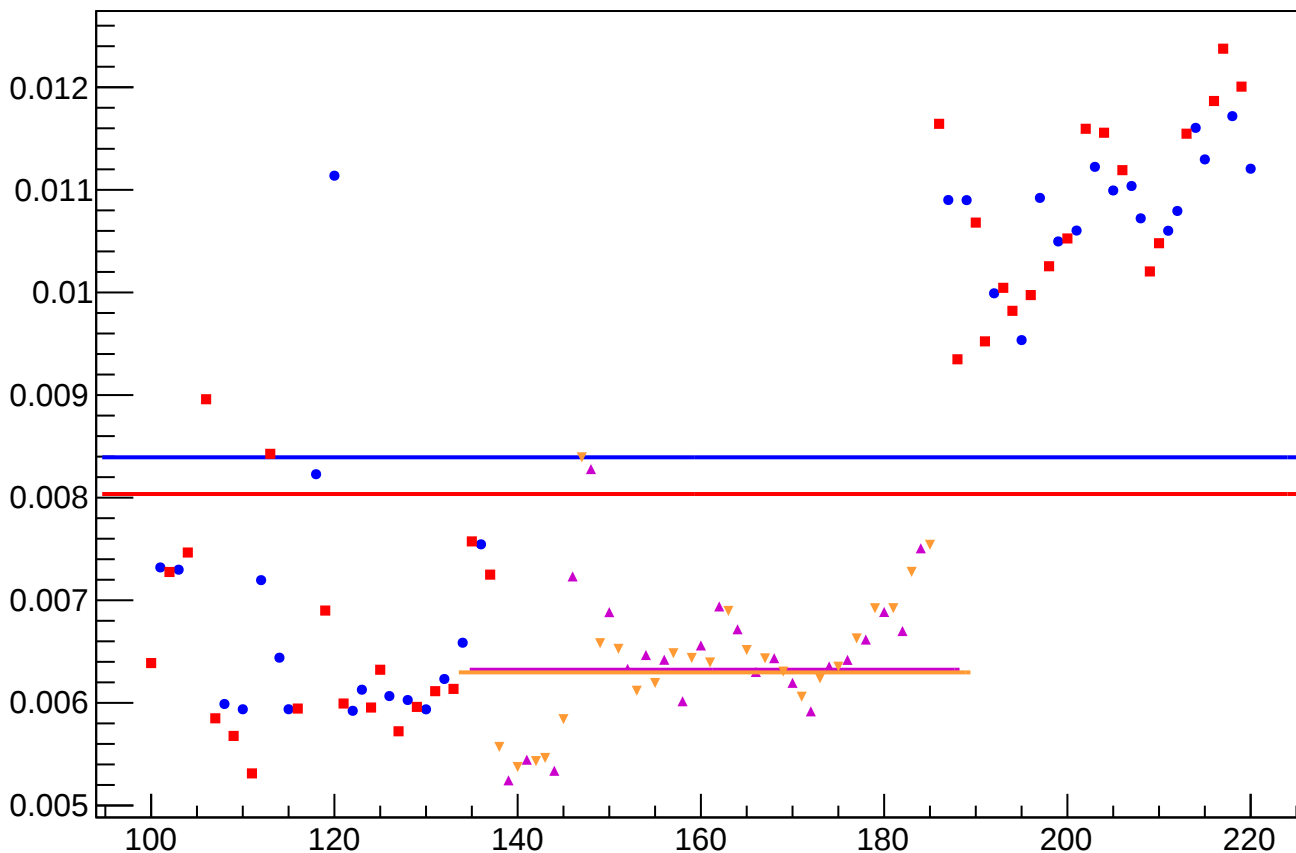
Left In: -1.666+/-0.000

χ^2/NDF : 14292570816.9/22

All: -1.326+/-0.000

χ^2/NDF : 864372564477.5

yield_bpm0l01X_rms vs Slug, Sign Corrected



Right In: 0.008+/-0.000 χ^2/NDF : 2328005.6/33

Left Out: 0.006+/-0.000 χ^2/NDF : 310757.0/24

Right Out: 0.008+/-0.000 χ^2/NDF : 2768855.3/36

Left In: 0.006+/-0.000 χ^2/NDF : 330859.7/22

Left: 0.006+/-0.000 χ^2/NDF : 641901.9/47

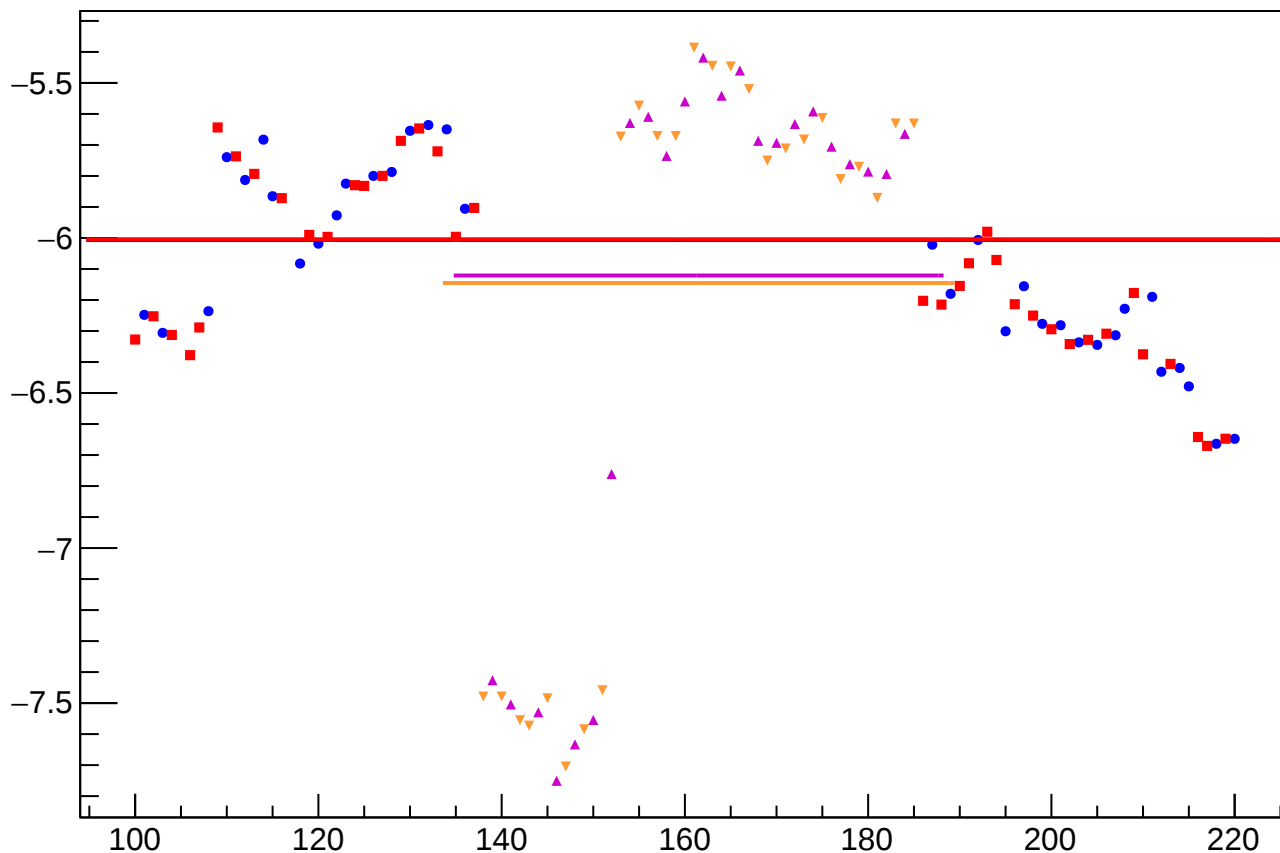
Right: 0.008+/-0.000 χ^2/NDF : 5129391.1/70

In: 0.007+/-0.000 χ^2/NDF : 3959392.2/56

Out: 0.007+/-0.000 χ^2/NDF : 4088872.5/61

All: 0.007+/-0.000 χ^2/NDF : 8060365.0/118

yield_bpm0l01Y_mean vs Slug, Sign Corrected



Right In: -6.006+/-0.000 χ^2/NDF : 20749889891.6/33

Left Out: -6.145+/-0.000 χ^2/NDF : 185364150237.7/24

Right Out: -6.004+/-0.000 χ^2/NDF : 22148621423.9/36

Left In: -6.121+/-0.000 χ^2/NDF : 158315913062.3/22

Left: -6.133+/-0.000 χ^2/NDF : 343753122832.9/47

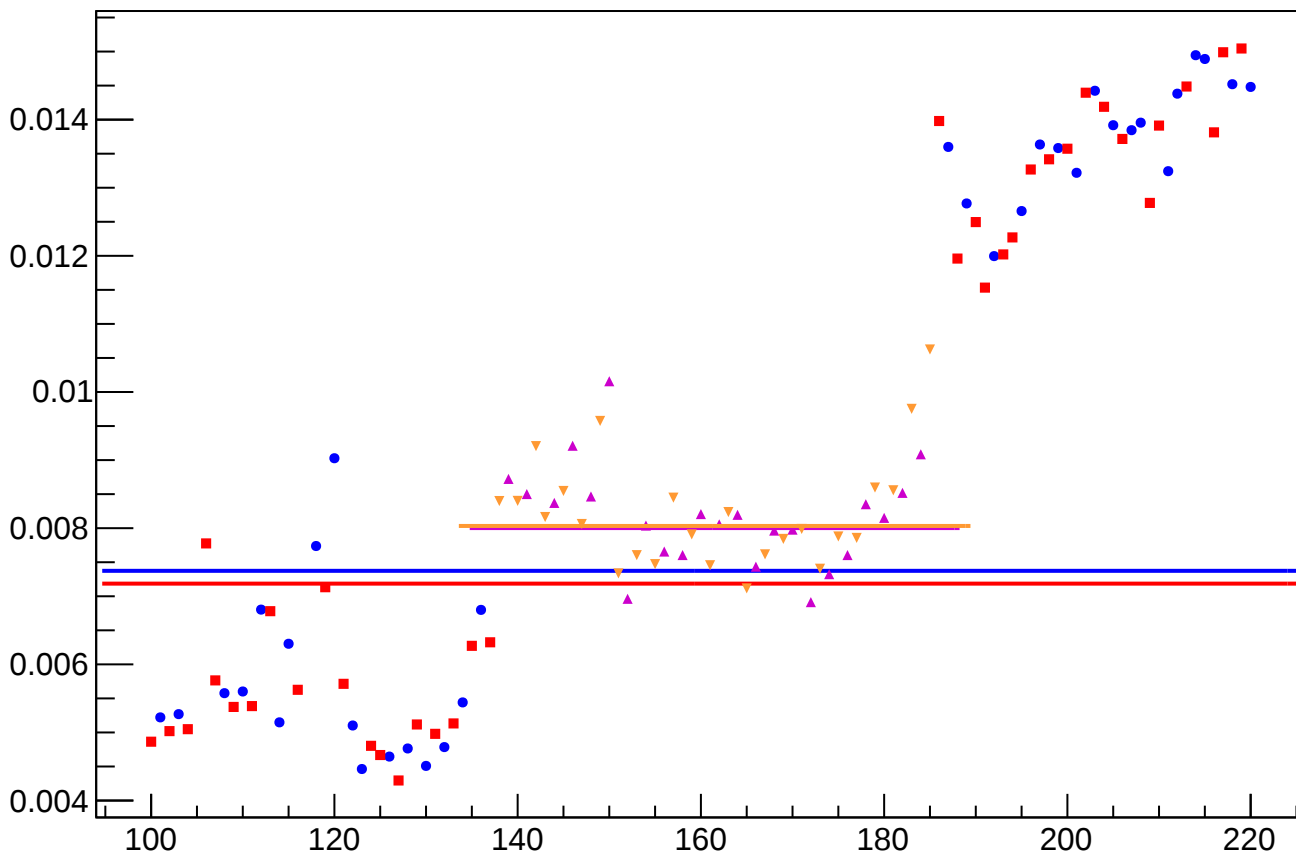
Right: -6.005+/-0.000 χ^2/NDF : 42899132656.9/70

In: -6.062+/-0.000 χ^2/NDF : 180747391786.5/56

Out: -6.070+/-0.000 χ^2/NDF : 210216785506.2/61

All: -6.066+/-0.000 χ^2/NDF : 390985117016.9

yield_bpm0l01Y_rms vs Slug, Sign Corrected



Right In: 0.007+/-0.000 χ^2/NDF : 7050659.0/33

Left Out: 0.008+/-0.000 χ^2/NDF :205762.2/24

Right Out: 0.007+/-0.000 χ^2/NDF : 6969575.6/36

Left In: 0.008+/-0.000 χ^2/NDF :220756.1/22

Left: 0.008+/-0.000 χ^2/NDF : 426763.2/47

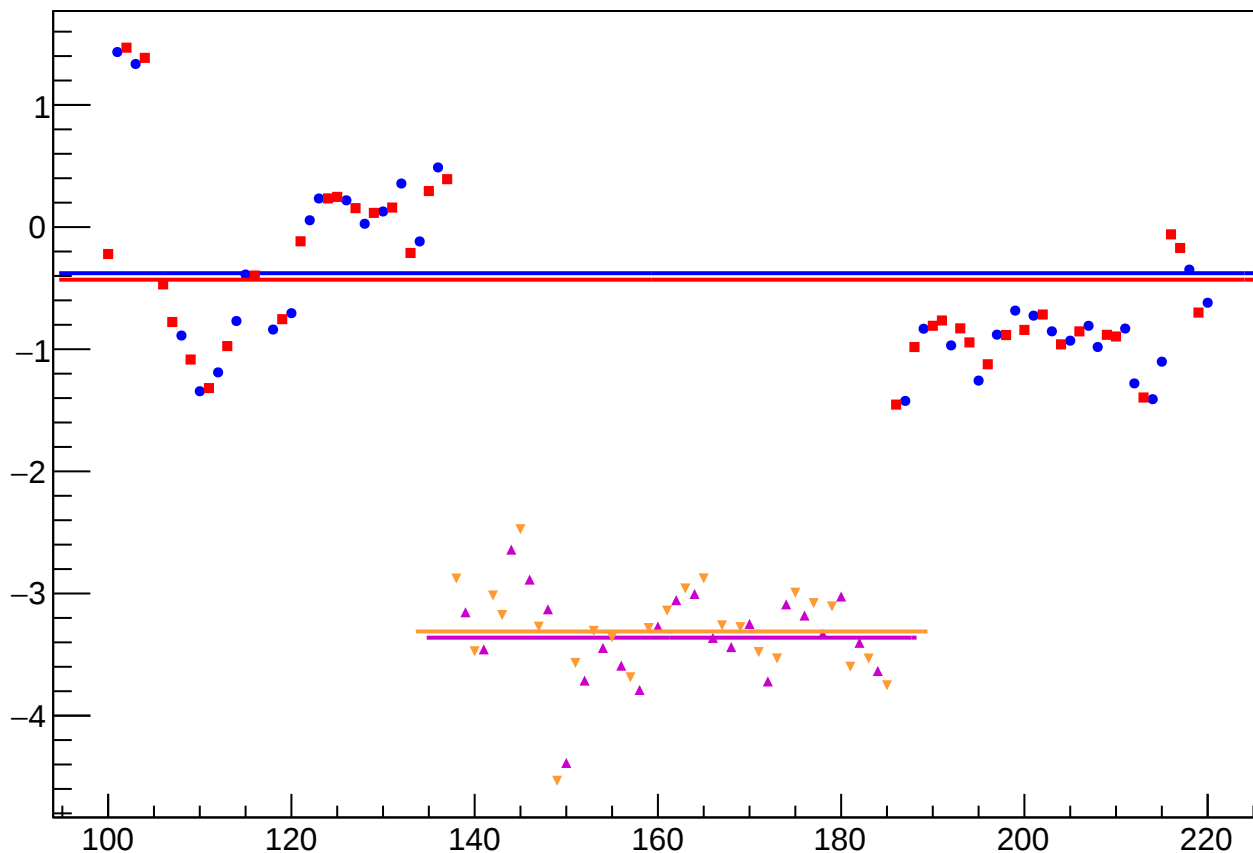
Right: 0.007+/-0.000 χ^2/NDF : 14030016.2/70

In: 0.008+/-0.000 χ^2/NDF :7372163.1/56

Out: 0.008+/-0.000 χ^2/NDF :7370683.8/61

All: 0.008+/-0.000 χ^2/NDF : 14747326.9/118

yield_bpm0l02X_mean vs Slug, Sign Corrected



Right In: -0.378 ± 0.000 $\chi^2/\text{NDF}: 36583709451.0/33$

Left Out: -3.311 ± 0.000 $\chi^2/\text{NDF}: 9354397456.2/24$

Right Out: -0.431 ± 0.000 $\chi^2/\text{NDF}: 35296308280.2/36$

Left In: -3.362 ± 0.000 $\chi^2/\text{NDF}: 8171803777.4/22$

Left: -3.336 ± 0.000 $\chi^2/\text{NDF}: 17613895190.9/47$

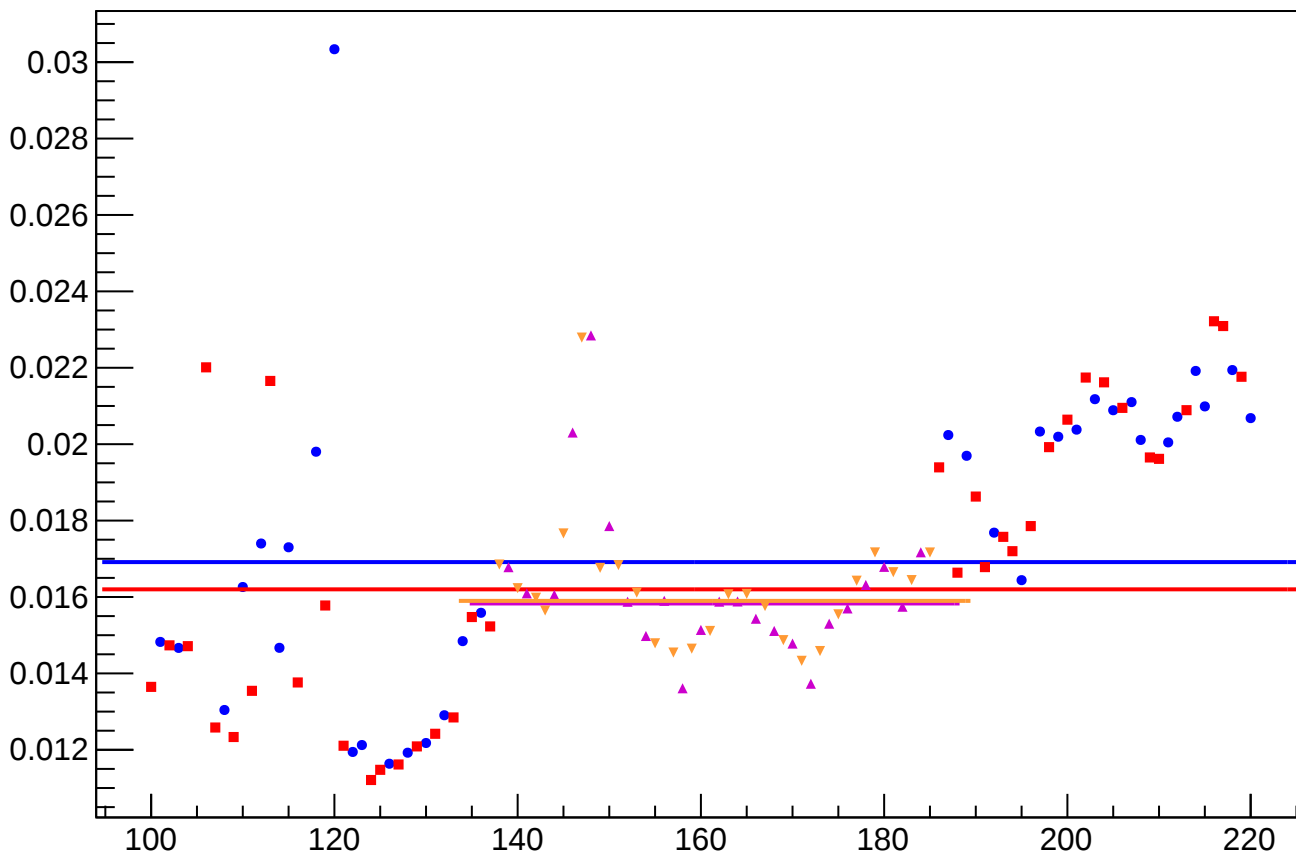
Right: -0.406 ± 0.000 $\chi^2/\text{NDF}: 71970443143.0/70$

In: -1.938 ± 0.000 $\chi^2/\text{NDF}: 326269262862.4/56$

Out: -1.891 ± 0.000 $\chi^2/\text{NDF}: 330656860230.5/61$

All: -1.913 ± 0.000 $\chi^2/\text{NDF}: 657071604403.1$

yield_bpm0l02X_rms vs Slug, Sign Corrected



Right In: 0.017+/-0.000 χ^2/NDF : 1682888.5/33

Left Out: 0.016+/-0.000 χ^2/NDF :251912.7/24

Right Out: 0.016+/-0.000 χ^2/NDF : 1862712.5/36

Left In: 0.016+/-0.000 χ^2/NDF :339542.1/22

Left: 0.016+/-0.000 χ^2/NDF : 591766.7/47

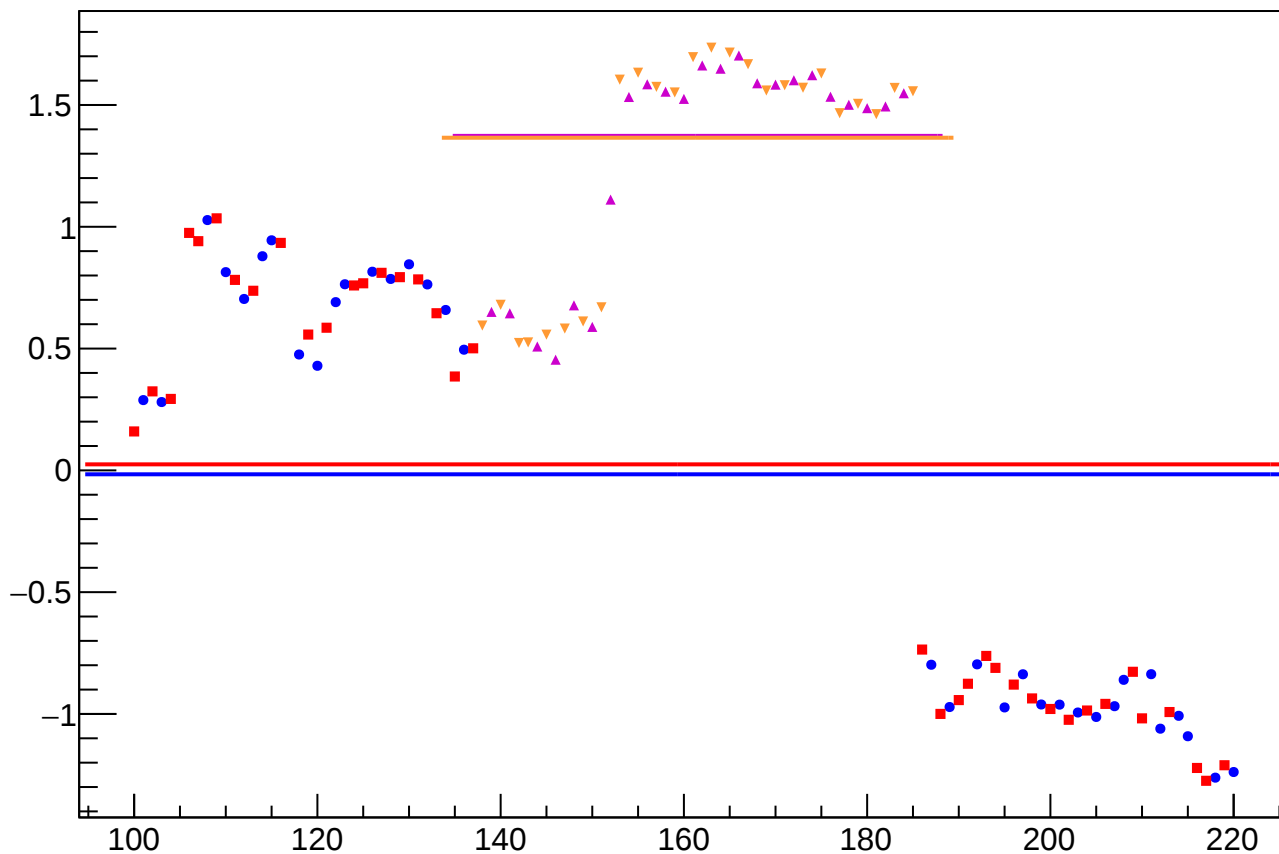
Right: 0.017+/-0.000 χ^2/NDF : 3578156.6/70

In: 0.016+/-0.000 χ^2/NDF :2096579.5/56

Out: 0.016+/-0.000 χ^2/NDF :2120916.1/61

All: 0.016+/-0.000 χ^2/NDF : 4229388.0/118

yield_bpm0l02Y_mean vs Slug, Sign Corrected



Right In: -0.016+/-0.000

χ^2/NDF : 102095530351.2/33

Left: 1.369+/-0.000

χ^2/NDF : 138167468300.7/47

Right: 0.005+/-0.000

χ^2/NDF : 213211033285.8/70

Left Out: 1.366+/-0.000

χ^2/NDF : 74741956067.9/24

In: 0.998+/-0.000

χ^2/NDF : 388218132177.2/56

Right Out: 0.025+/-0.000

χ^2/NDF : 110976857417.5/36

Out: 0.974+/-0.000

χ^2/NDF : 409208219326.9/61

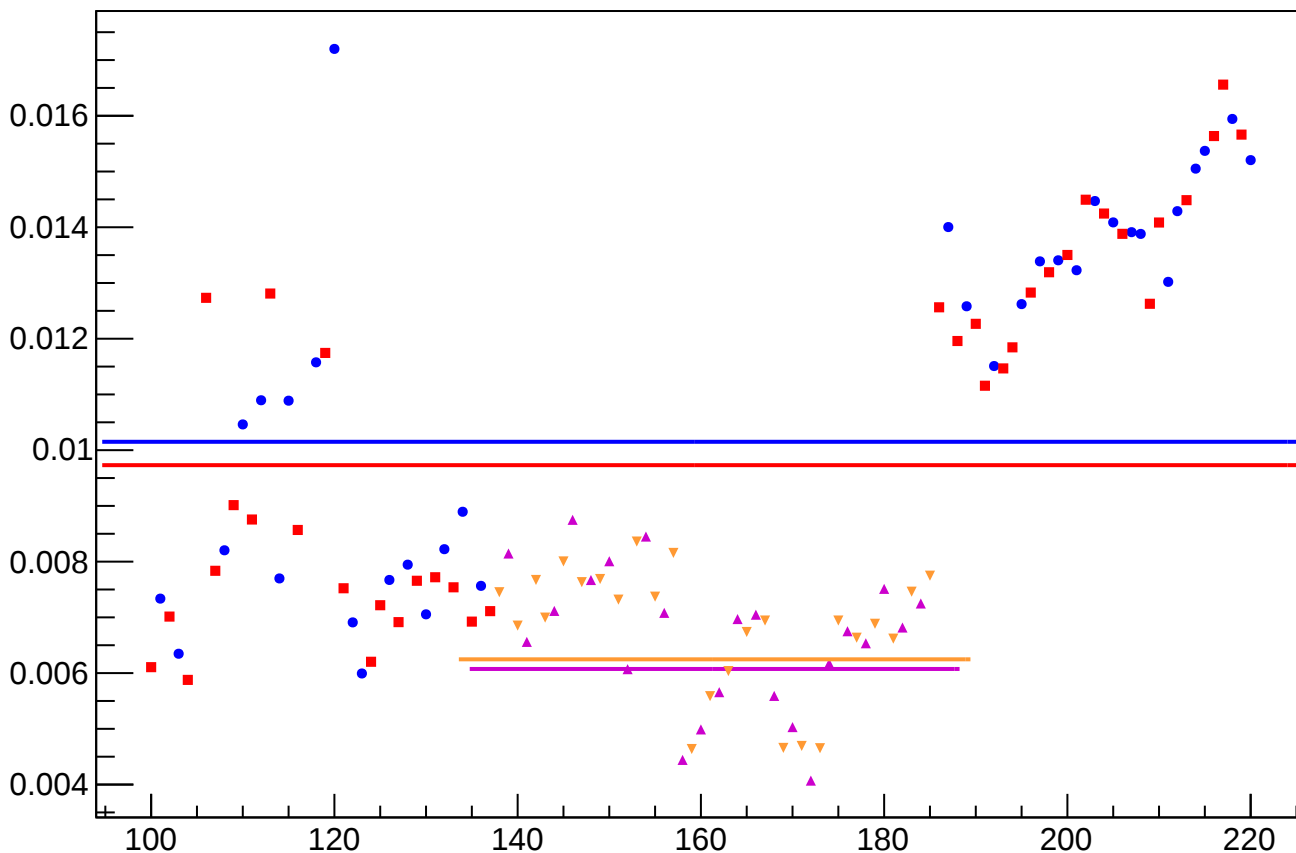
Left In: 1.373+/-0.000

χ^2/NDF : 63413151416.3/22

All: 0.986+/-0.000

χ^2/NDF : 797594496057.7

yield_bpm0l02Y_rms vs Slug, Sign Corrected



Right In: 0.010 $\pm$ 0.000 χ^2 /NDF: 3244320.7/33

Left Out: 0.006 $\pm$ 0.000 χ^2 /NDF:1330867.5/24

Right Out: 0.010 $\pm$ 0.000 χ^2 /NDF: 3438442.5/36

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

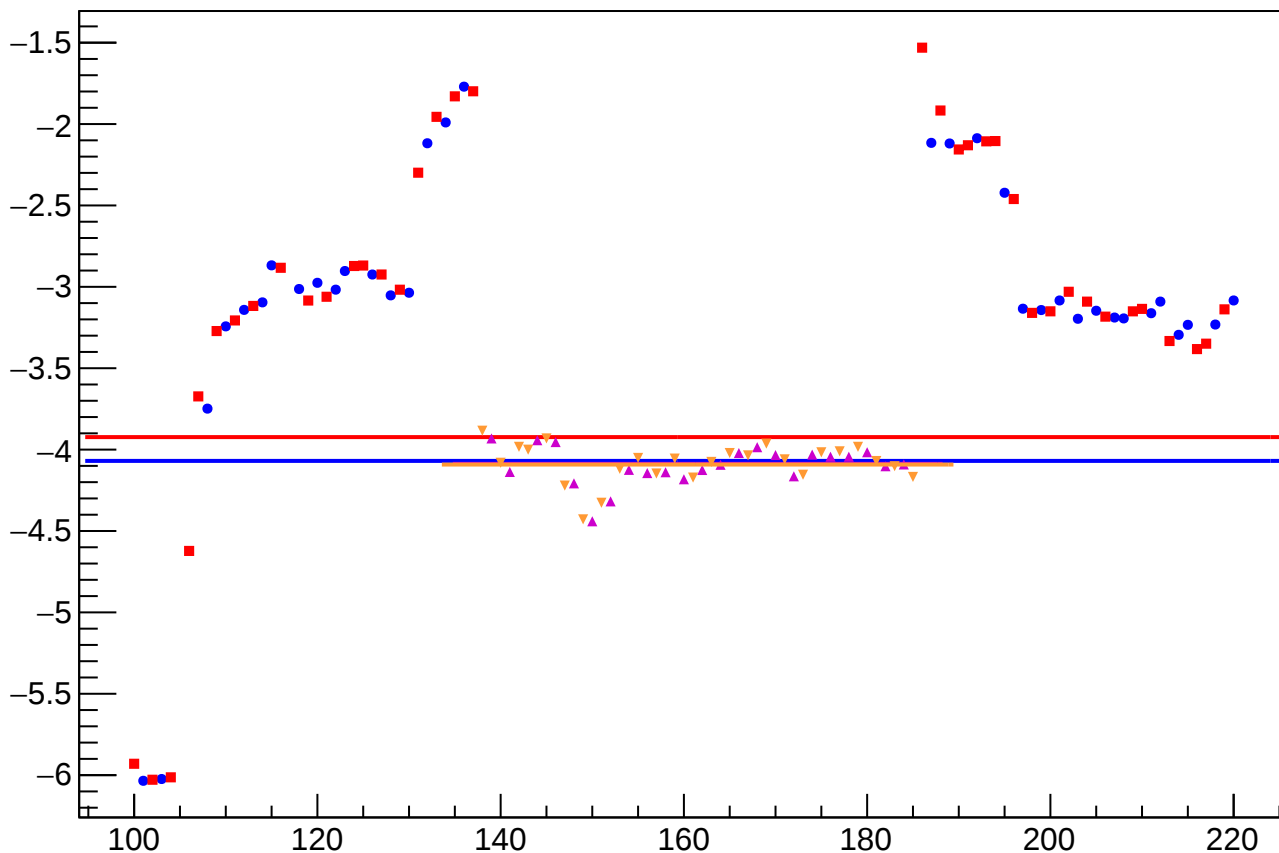
Right: 0.010 $\pm$ 0.000 χ^2 /NDF: 6712024.0/70

In: 0.007 $\pm$ 0.000 χ^2 /NDF:8510651.5/56

Out: 0.007 $\pm$ 0.000 χ^2 /NDF:7786753.5/61

All: 0.007 $\pm$ 0.000 χ^2 /NDF: 16302111.4/118

yield_bpm0l03X_mean vs Slug, Sign Corrected



Right In: -4.069+/-0.000

χ^2/NDF : 292575937003.3/33

Left Out: -4.092+/-0.000

χ^2/NDF : 39806766.7/24

Right Out: -3.923+/-0.000

χ^2/NDF : 280221495630.4/36

Left In: -4.088+/-0.000

χ^2/NDF : 34412880.7/22

Left: -4.089+/-0.000

χ^2/NDF : 74248792.8/47

Right: -4.005+/-0.000

χ^2/NDF : 573980491813.0/70

In: -4.070+/-0.000

χ^2/NDF : 292611735548.2/56

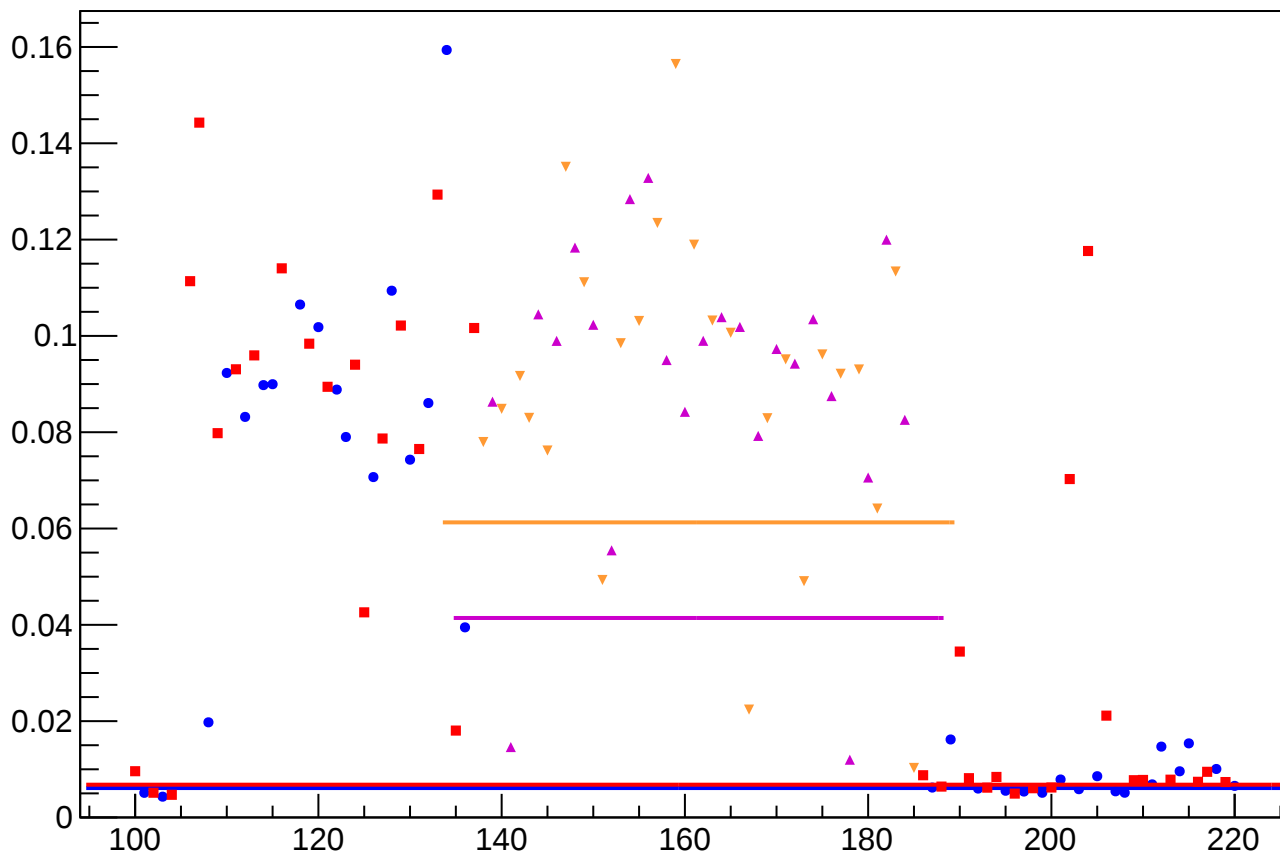
Out: -3.928+/-0.000

χ^2/NDF : 280342824080.7/61

All: -4.008+/-0.000

χ^2/NDF : 574103964022.9

yield_bpm0l03X_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 8428105.6/33

Left Out: 0.061+/-0.000 χ^2/NDF : 8355266.0/24

Right Out: 0.007+/-0.000 χ^2/NDF : 10412871.3/36

Left In: 0.041+/-0.000 χ^2/NDF : 13124468.7/22

Left: 0.050+/-0.000 χ^2/NDF : 22855159.2/47

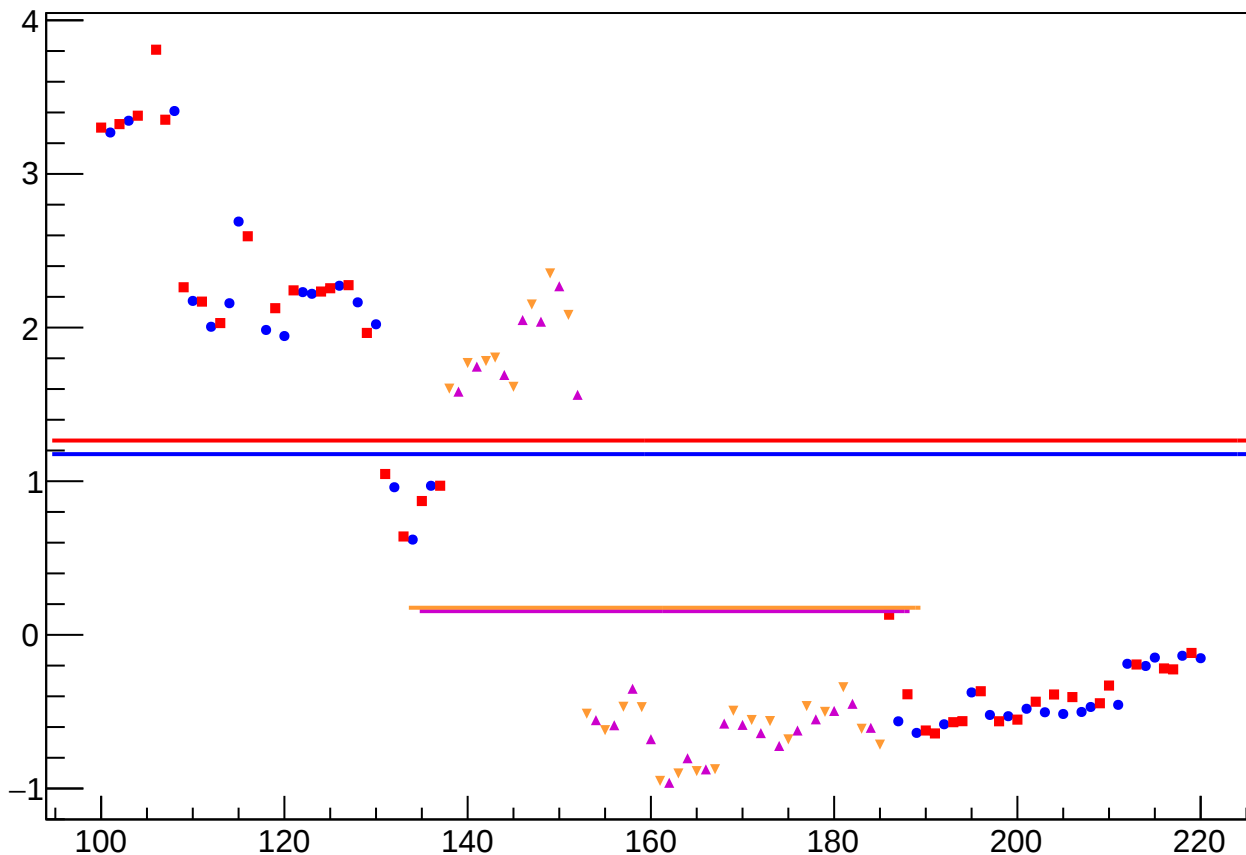
Right: 0.006+/-0.000 χ^2/NDF : 18894996.7/70

In: 0.007+/-0.000 χ^2/NDF : 31845249.9/56

Out: 0.008+/-0.000 χ^2/NDF : 35780408.6/61

All: 0.008+/-0.000 χ^2/NDF : 67773167.5/118

yield_bpm0l03Y_mean vs Slug, Sign Corrected



Right In: 1.176+/-0.000 χ^2/NDF : 226072739973.8/33

Left Out: 0.177+/-0.000 χ^2/NDF : 3275313367.7/24

Right Out: 1.265+/-0.000 χ^2/NDF : 201017998628.2/36

Left In: 0.154+/-0.000 χ^2/NDF : 3163553595.0/22

Left: 0.165+/-0.000 χ^2/NDF : 6439465655.5/47

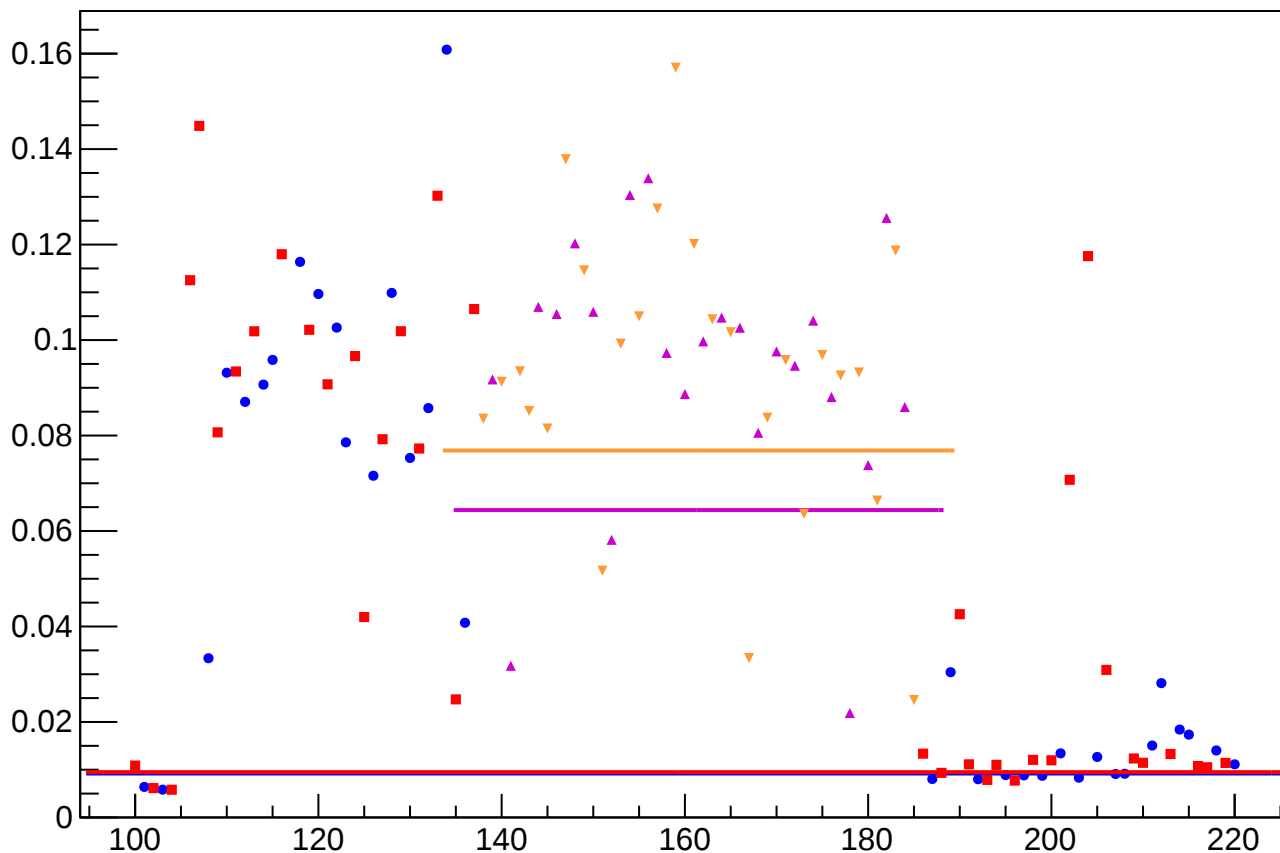
Right: 1.218+/-0.000 χ^2/NDF : 427334278698.3/70

In: 1.138+/-0.000 χ^2/NDF : 231828242703.5/56

Out: 1.225+/-0.000 χ^2/NDF : 206878885093.4/61

All: 1.179+/-0.000 χ^2/NDF : 438951432413.8

yield_bpm0l03Y_rms vs Slug, Sign Corrected



Right In: 0.009 $\pm$ 0.000 χ^2 /NDF: 8654829.8/33

Left Out: 0.077 $\pm$ 0.000 χ^2 /NDF:4217954.3/24

Right Out: 0.009 $\pm$ 0.000 χ^2 /NDF: 10412652.0/36

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

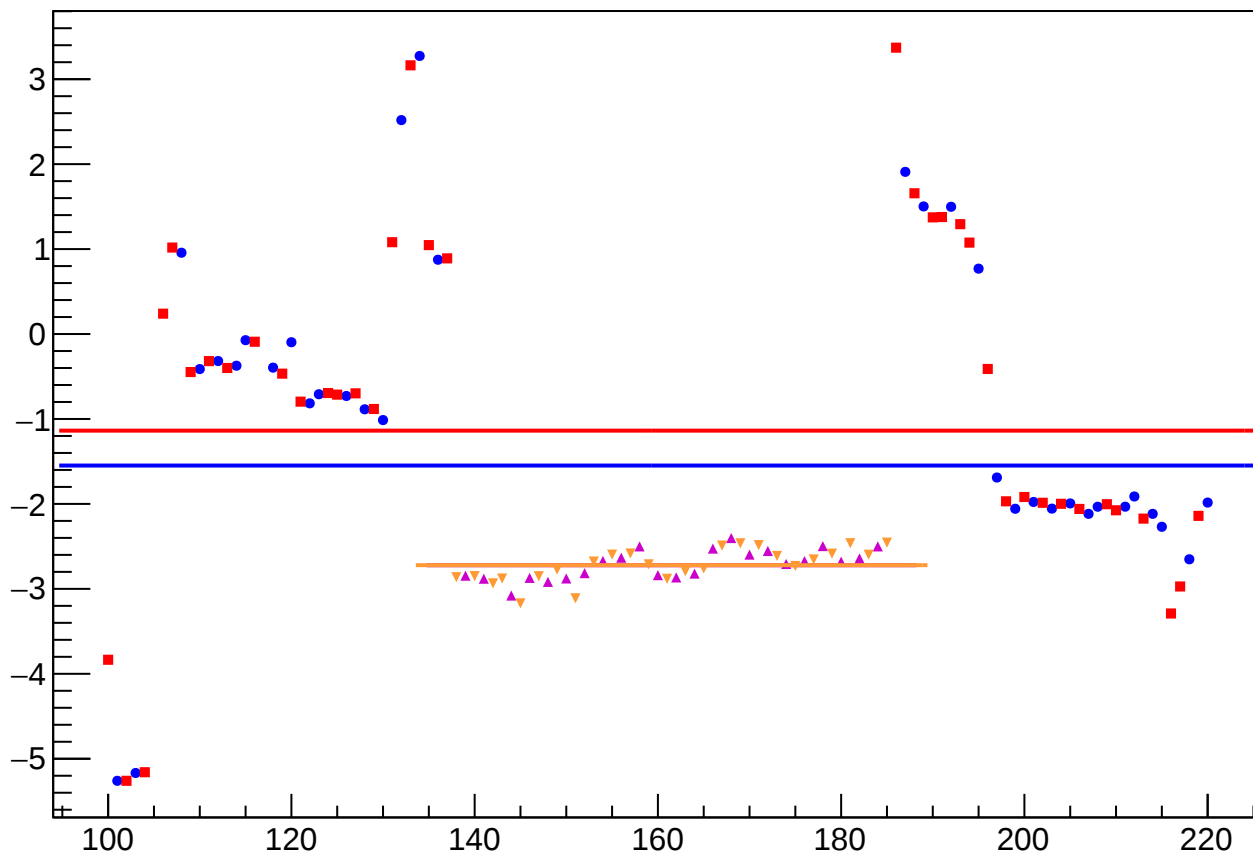
Right: 0.009 $\pm$ 0.000 χ^2 /NDF: 19072567.7/70

In: 0.011 $\pm$ 0.000 χ^2 /NDF:30758793.7/56

Out: 0.012 $\pm$ 0.000 χ^2 /NDF:34453754.0/61

All: 0.012 $\pm$ 0.000 χ^2 /NDF: 65243056.2/118

yield_bpm0l04X_mean vs Slug, Sign Corrected



Right In: -1.548+/-0.000 χ^2 /NDF: 210273624149.8/33

Left Out: -2.721+/-0.000 χ^2 /NDF: 10397156971.6/24

Right Out: -1.137+/-0.000 χ^2 /NDF: 251703816617.8/36

Left In: -2.722+/-0.000 χ^2 /NDF: 8146484592.1/22

Left: -2.722+/-0.000 χ^2 /NDF: 18543711860.5/47

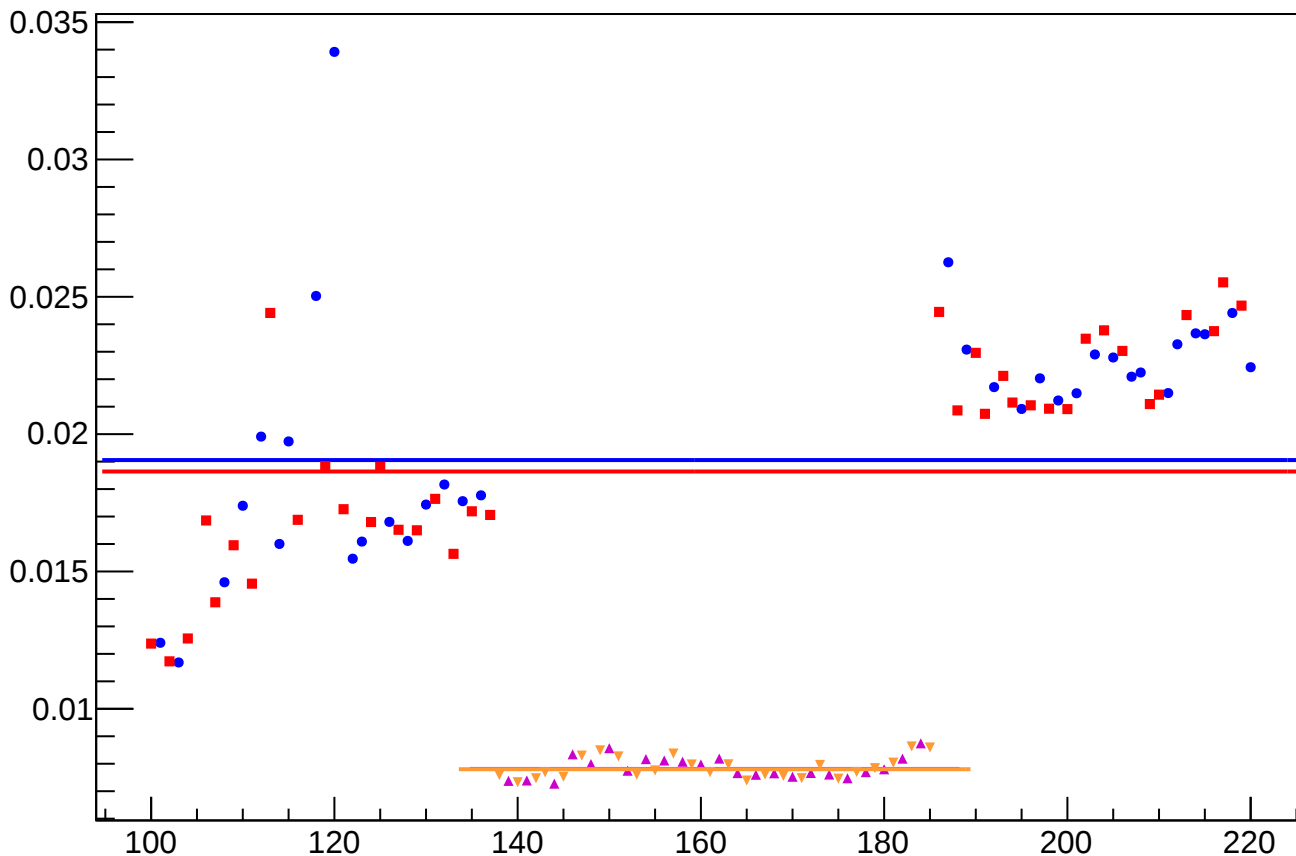
Right: -1.335+/-0.000 χ^2 /NDF: 466063806542.6/70

In: -2.551+/-0.000 χ^2 /NDF: 273302072714.3/56

Out: -2.488+/-0.000 χ^2 /NDF: 369647004405.2/61

All: -2.519+/-0.000 χ^2 /NDF: 643609495813.7

yield_bpm0l04X_rms vs Slug, Sign Corrected



Right In: 0.019+/-0.000 χ^2/NDF : 1683858.6/33

Left Out: 0.008+/-0.000 χ^2/NDF : 71164.4/24

Right Out: 0.019+/-0.000 χ^2/NDF : 1672178.8/36

Left In: 0.008+/-0.000 χ^2/NDF : 67610.2/22

Left: 0.008+/-0.000 χ^2/NDF : 138804.4/47

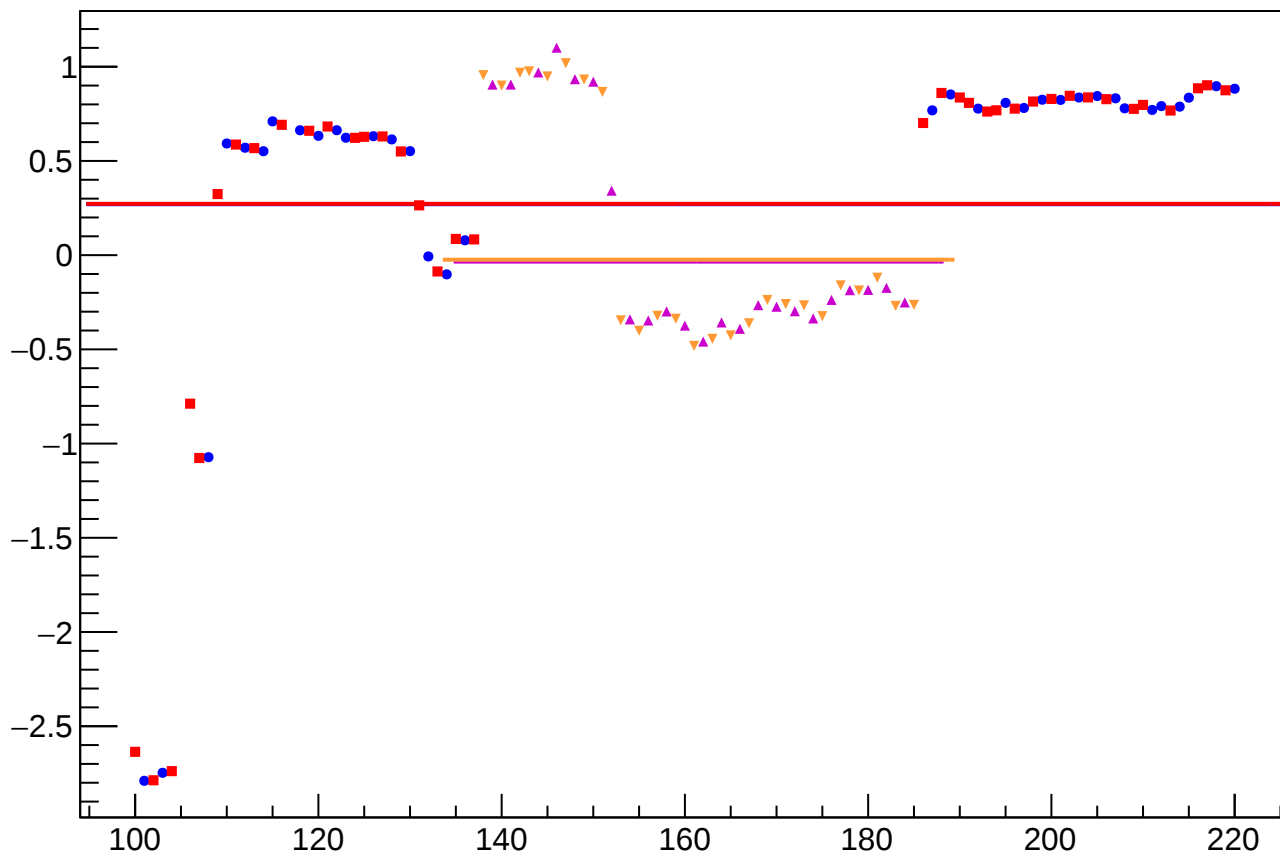
Right: 0.019+/-0.000 χ^2/NDF : 3364420.5/70

In: 0.009+/-0.000 χ^2/NDF : 11827434.4/56

Out: 0.009+/-0.000 χ^2/NDF : 11815179.9/61

All: 0.009+/-0.000 χ^2/NDF : 23643447.5/118

yield_bpm0l04Y_mean vs Slug, Sign Corrected



Right In: 0.270+/-0.000 χ^2/NDF : 915844479917.1/33

Left Out: -0.024+/-0.000 χ^2/NDF : 135451649275.0/24

Right Out: 0.272+/-0.000 χ^2/NDF : 971136065703.0/36

Left In: -0.034+/-0.000 χ^2/NDF : 113929060918.1/22

Left: -0.029+/-0.000 χ^2/NDF : 249405201350.6/47

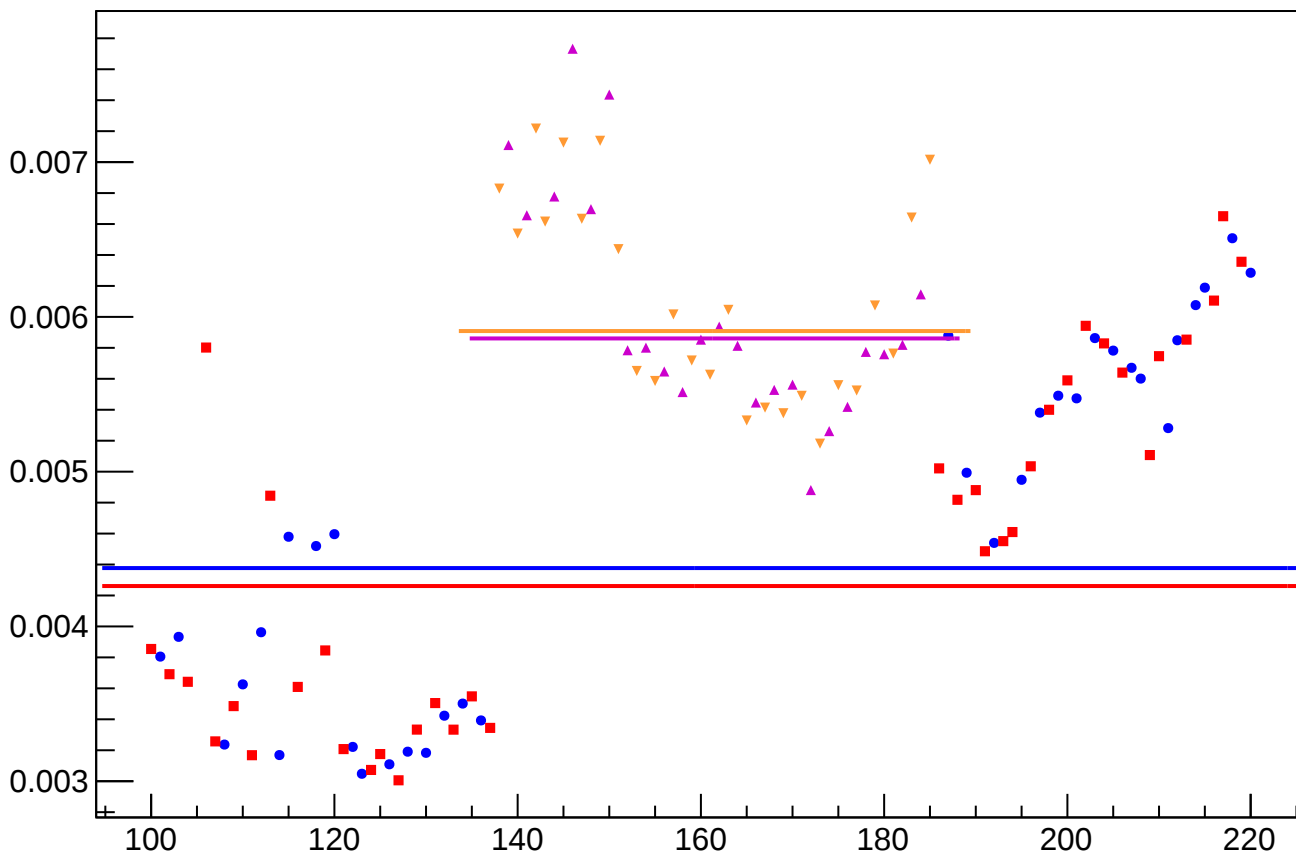
Right: 0.271+/-0.000 χ^2/NDF : 1886982288741.6/70

In: 0.166+/-0.000 χ^2/NDF : 1058241099322.9/56

Out: 0.174+/-0.000 χ^2/NDF : 1134955775140.9/61

All: 0.170+/-0.000 χ^2/NDF : 2193238625862.0/110

yield_bpm0l04Y_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 2173170.9/33

Left Out: 0.006+/-0.000 χ^2/NDF :314309.7/24

Right Out: 0.004+/-0.000 χ^2/NDF : 2184143.5/36

Left In: 0.006+/-0.000 χ^2/NDF :364512.1/22

Left: 0.006+/-0.000 χ^2/NDF : 679905.3/47

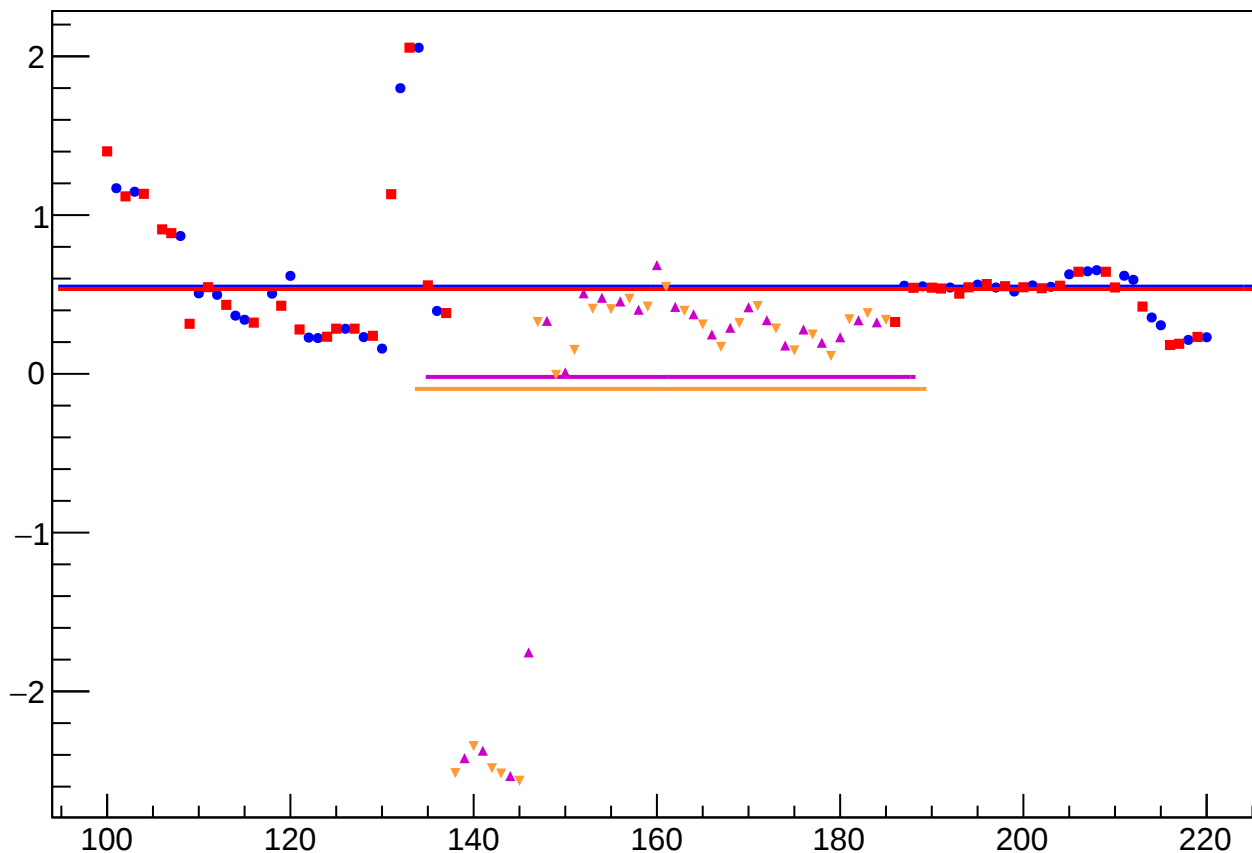
Right: 0.004+/-0.000 χ^2/NDF : 4369879.4/70

In: 0.005+/-0.000 χ^2/NDF :3886834.0/56

Out: 0.005+/-0.000 χ^2/NDF :4249628.7/61

All: 0.005+/-0.000 χ^2/NDF : 8144686.9/118

yield_bpm0l05X_mean vs Slug, Sign Corrected



Right In: 0.549 $\pm$ 0.000 χ^2 /NDF: 62164392672.1/33

Left Out: -0.095 $\pm$ 0.000 χ^2 /NDF: 505606573631.9/24

Right Out: 0.535 $\pm$ 0.000 χ^2 /NDF: 68828861695.2/36

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

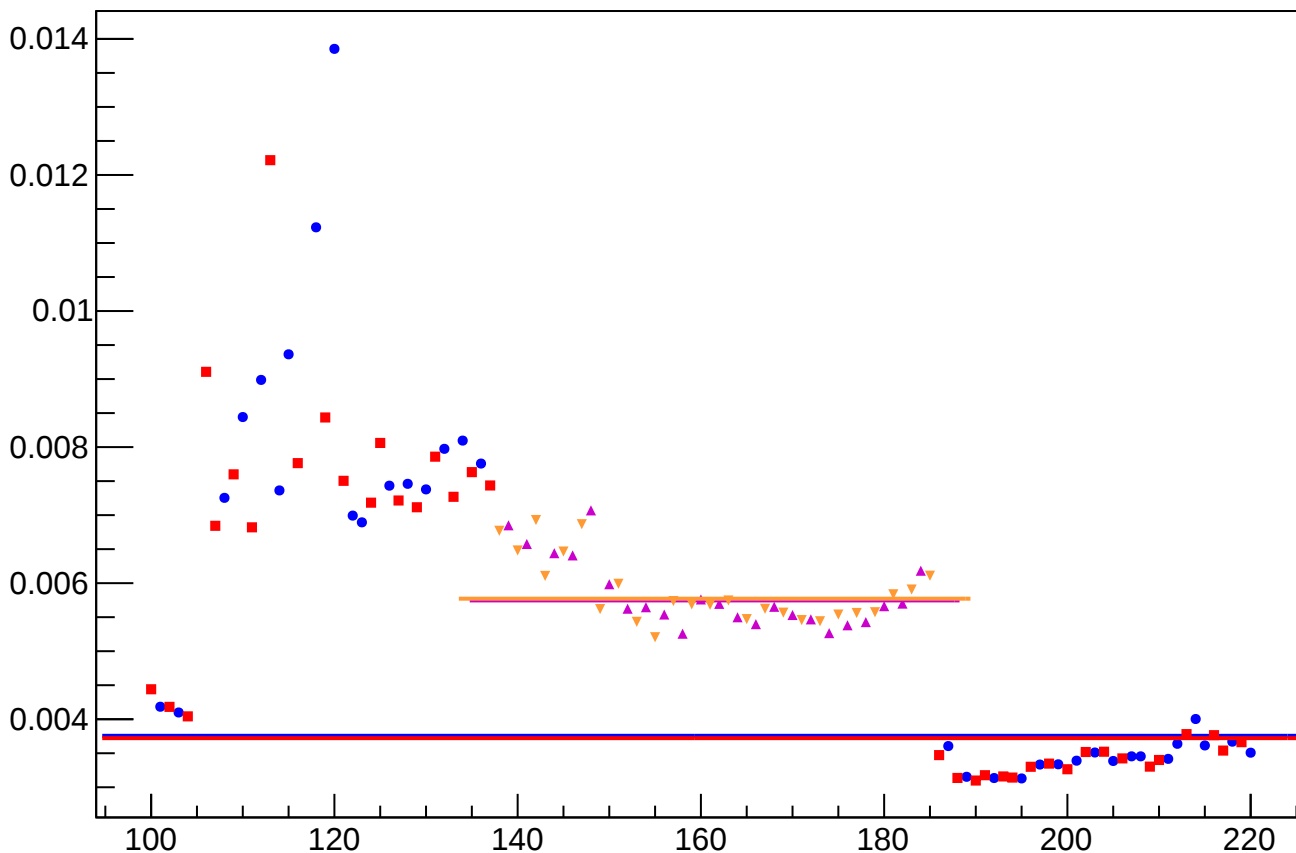
Right: 0.542 $\pm$ 0.000 χ^2 /NDF: 131122576275.3/70

In: 0.378 $\pm$ 0.000 χ^2 /NDF: 590870064198.6/56

Out: 0.347 $\pm$ 0.000 χ^2 /NDF: 717764836319.6/61

All: 0.362 $\pm$ 0.000 χ^2 /NDF: 1309467910211.0

yield_bpm0l05X_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 3161923.1/33

Left Out: 0.006+/-0.000 χ^2/NDF :177680.7/24

Right Out: 0.004+/-0.000 χ^2/NDF : 3198605.2/36

Left In: 0.006+/-0.000 χ^2/NDF :204066.4/22

Left: 0.006+/-0.000 χ^2/NDF : 382076.8/47

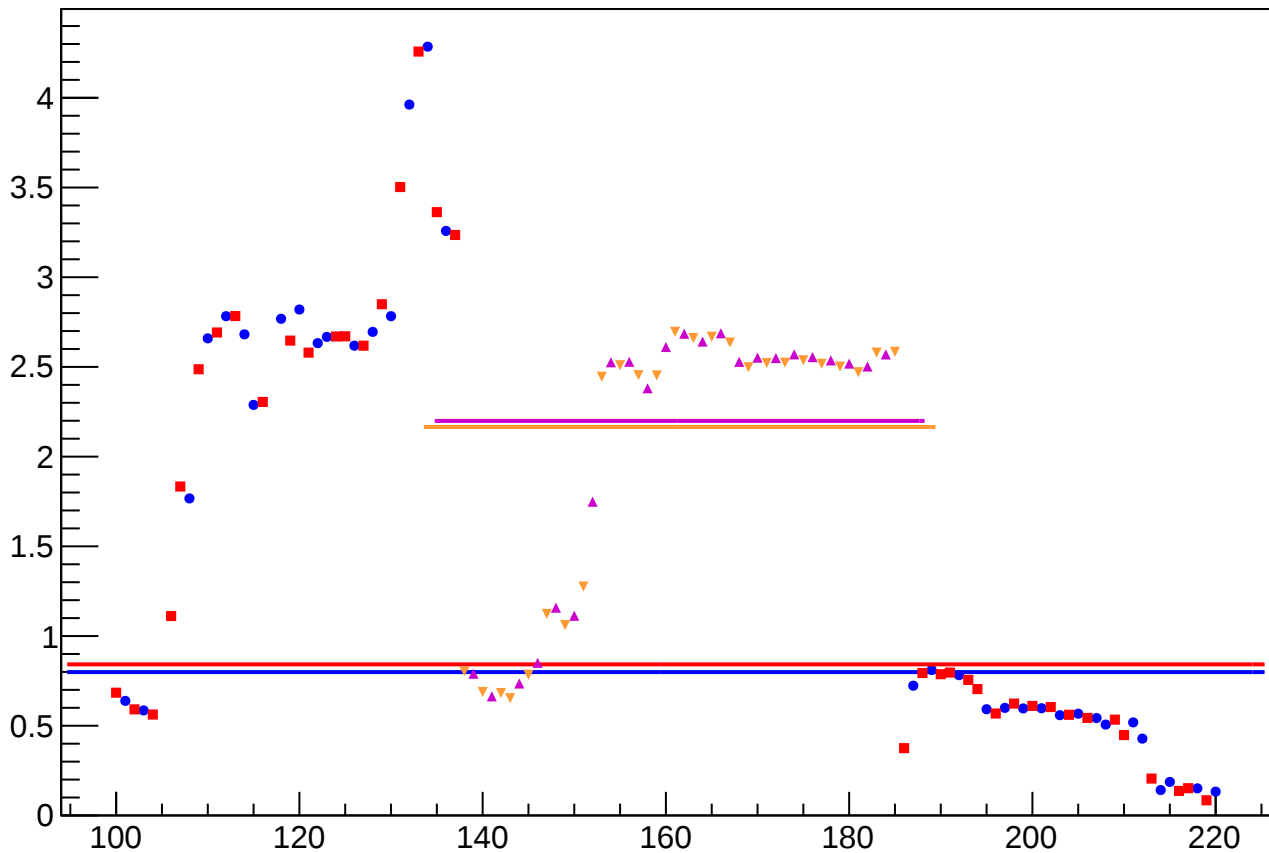
Right: 0.004+/-0.000 χ^2/NDF : 6361908.7/70

In: 0.004+/-0.000 χ^2/NDF :6099563.9/56

Out: 0.004+/-0.000 χ^2/NDF :6416150.7/61

All: 0.004+/-0.000 χ^2/NDF : 12516500.0/118

yield_bpm0l05Y_mean vs Slug, Sign Corrected



Right In: 0.799+/-0.000 χ^2/NDF : 348441688437.4/33

Left Out: 2.165+/-0.000 χ^2/NDF : 292800056899.6/24

Right Out: 0.842+/-0.000 χ^2/NDF : 400196831622.0/36

Left In: 2.199+/-0.000 χ^2/NDF : 253166239065.4/22

Left: 2.182+/-0.000 χ^2/NDF : 546302258971.9/47

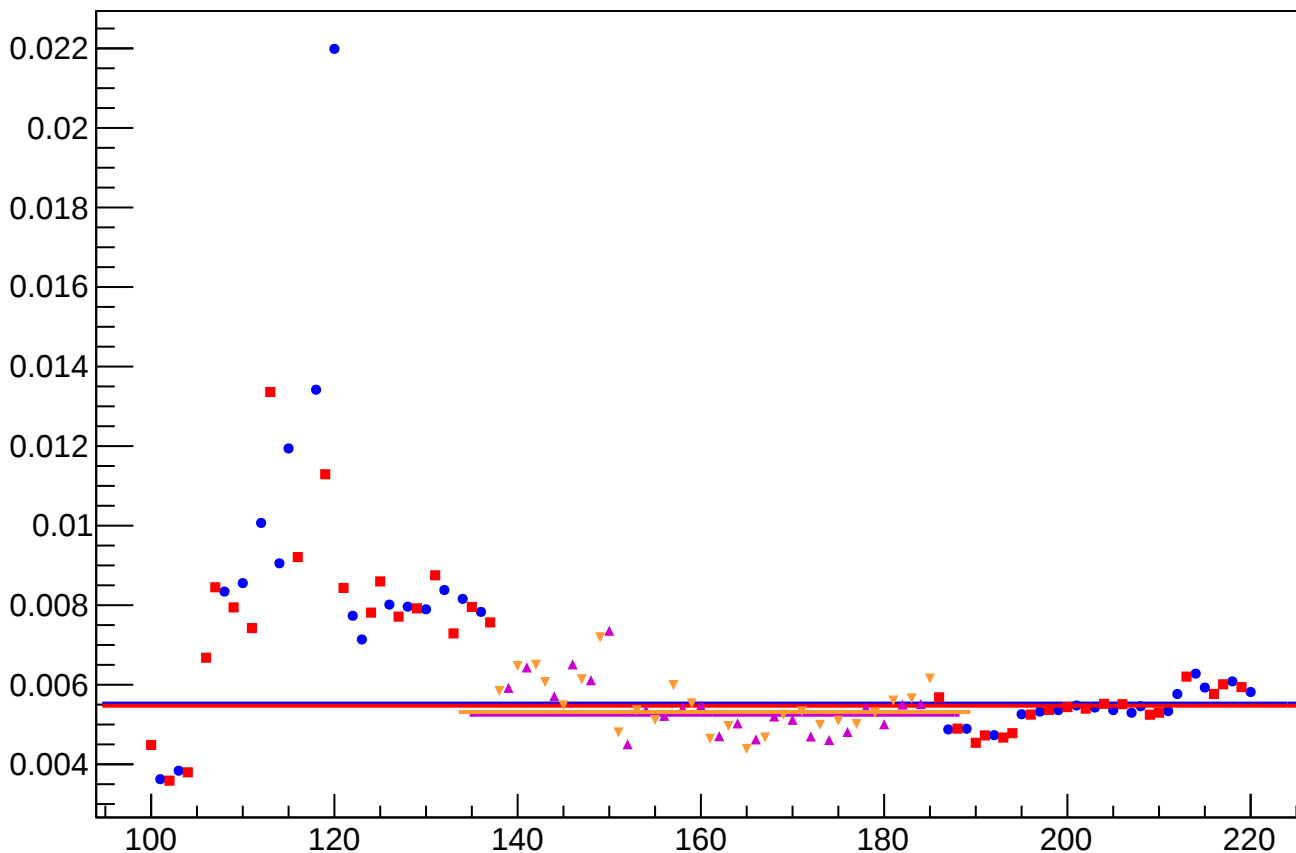
Right: 0.821+/-0.000 χ^2/NDF : 749158652937.7/70

In: 1.516+/-0.000 χ^2/NDF : 1149097724563.0/56

Out: 1.509+/-0.000 χ^2/NDF : 1202869697378.7/61

All: 1.512+/-0.000 χ^2/NDF : 2351995780973.0

yield_bpm0l05Y_rms vs Slug, Sign Corrected



Right In: 0.006+/-0.000 χ^2/NDF : 2063780.4/33

Left Out: 0.005+/-0.000 χ^2/NDF :398795.0/24

Right Out: 0.005+/-0.000 χ^2/NDF : 1931944.5/36

Left In: 0.005+/-0.000 χ^2/NDF :425864.8/22

Left: 0.005+/-0.000 χ^2/NDF : 827475.4/47

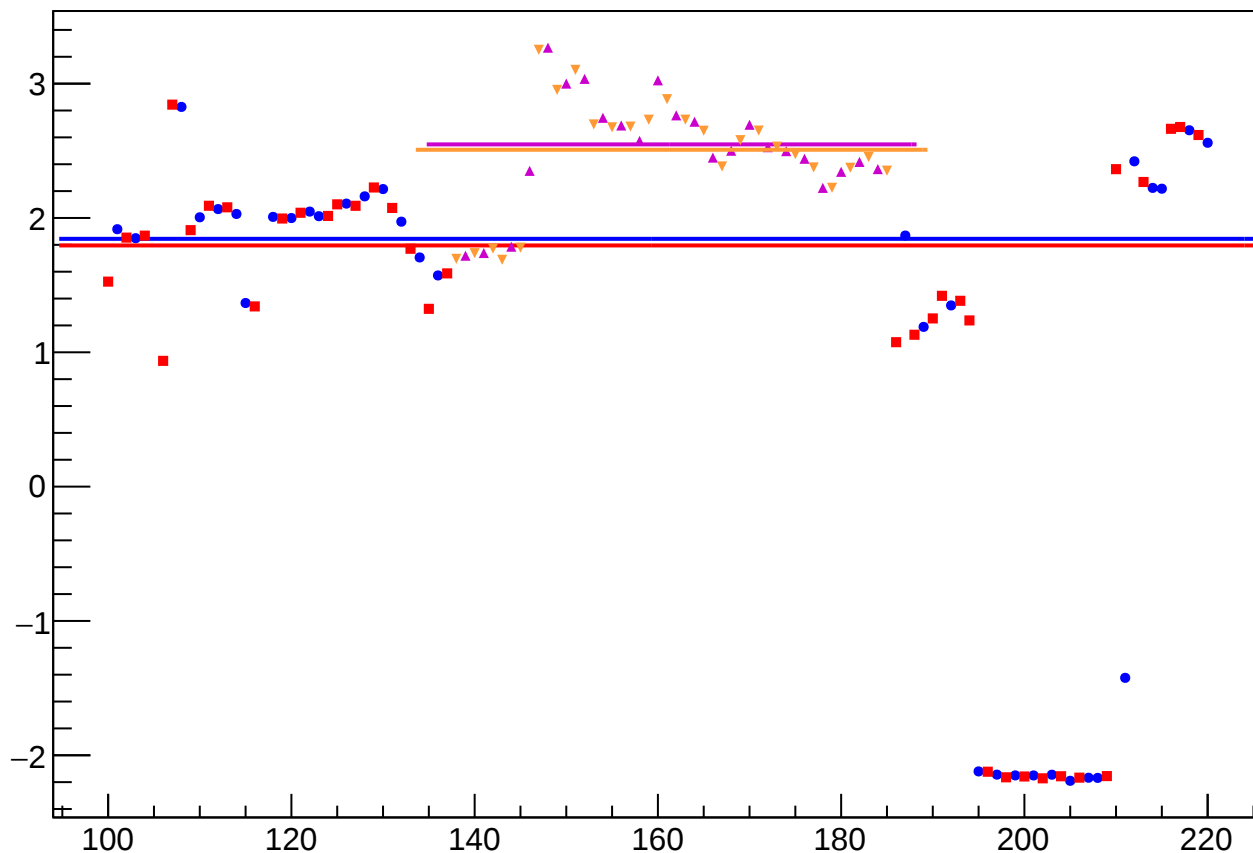
Right: 0.005+/-0.000 χ^2/NDF : 3997287.6/70

In: 0.005+/-0.000 χ^2/NDF :2533770.9/56

Out: 0.005+/-0.000 χ^2/NDF :2345395.2/61

All: 0.005+/-0.000 χ^2/NDF : 4879309.6/118

yield_bpm0l06X_mean vs Slug, Sign Corrected



Right In: 1.845 $\pm$ 0.000 χ^2 /NDF: 172693579724.0/33

Left Out: 2.508 $\pm$ 0.000 χ^2 /NDF: 52355332406.0/24

Right Out: 1.795 $\pm$ 0.000 χ^2 /NDF: 159693221864.9/36

Left In: 2.548 $\pm$ 0.000 χ^2 /NDF: 45350336058.7/22

Left: 2.527 $\pm$ 0.000 χ^2 /NDF: 97963993742.3/47

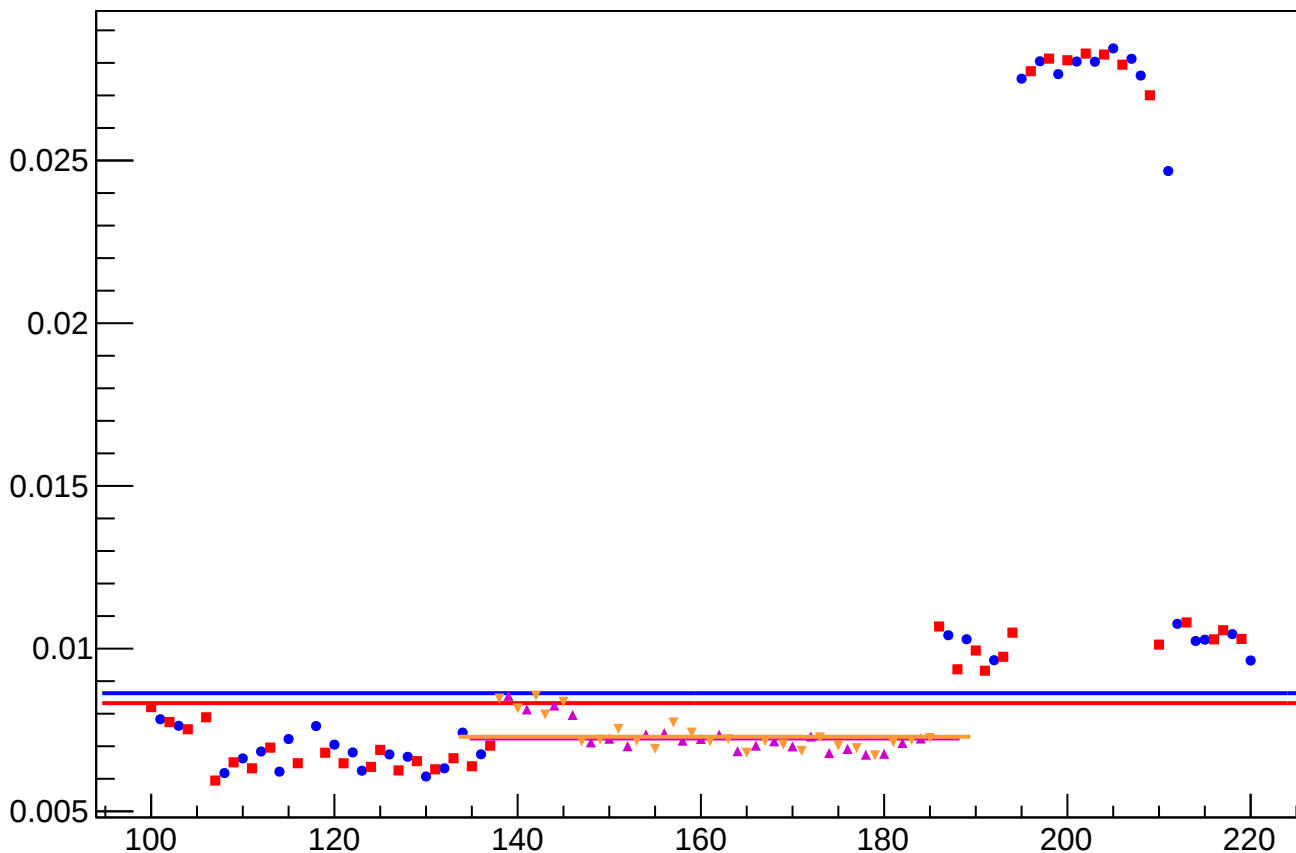
Right: 1.818 $\pm$ 0.000 χ^2 /NDF: 332639524427.6/70

In: 2.280 $\pm$ 0.000 χ^2 /NDF: 277742194087.9/56

Out: 2.219 $\pm$ 0.000 χ^2 /NDF: 279577557511.7/61

All: 2.248 $\pm$ 0.000 χ^2 /NDF: 558297883534.8

yield_bpm0l06X_rms vs Slug, Sign Corrected



Right In: 0.009 $\pm$ 0.000 χ^2 /NDF: 7740517.4/33

Left Out: 0.007 $\pm$ 0.000 χ^2 /NDF:140788.4/24

Right Out: 0.008 $\pm$ 0.000 χ^2 /NDF: 6582819.3/36

Left In: 0.007 $\pm$ 0.000 χ^2 /NDF:125233.2/22

Left: 0.007 $\pm$ 0.000 χ^2 /NDF: 266945.6/47

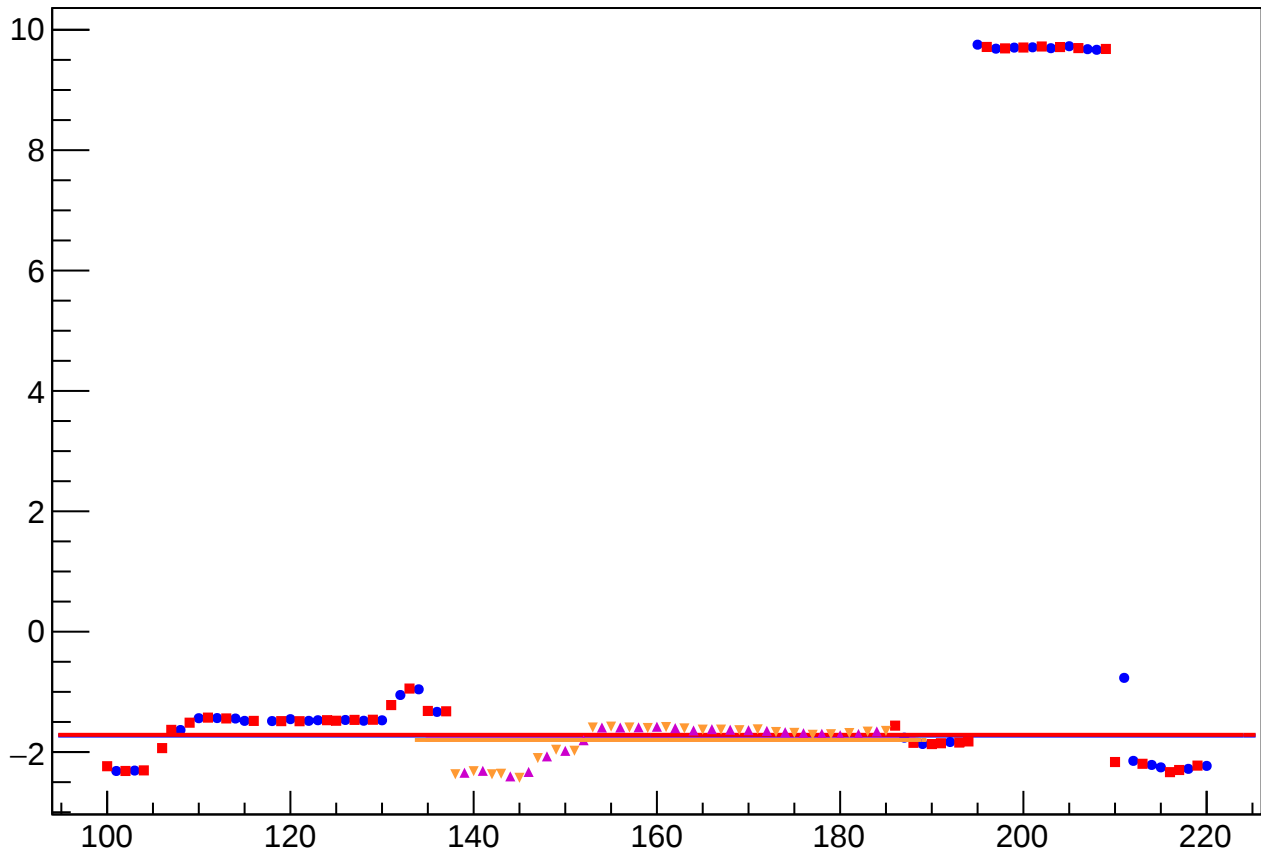
Right: 0.008 $\pm$ 0.000 χ^2 /NDF: 14342700.7/70

In: 0.008 $\pm$ 0.000 χ^2 /NDF:8333805.0/56

Out: 0.008 $\pm$ 0.000 χ^2 /NDF:7008088.6/61

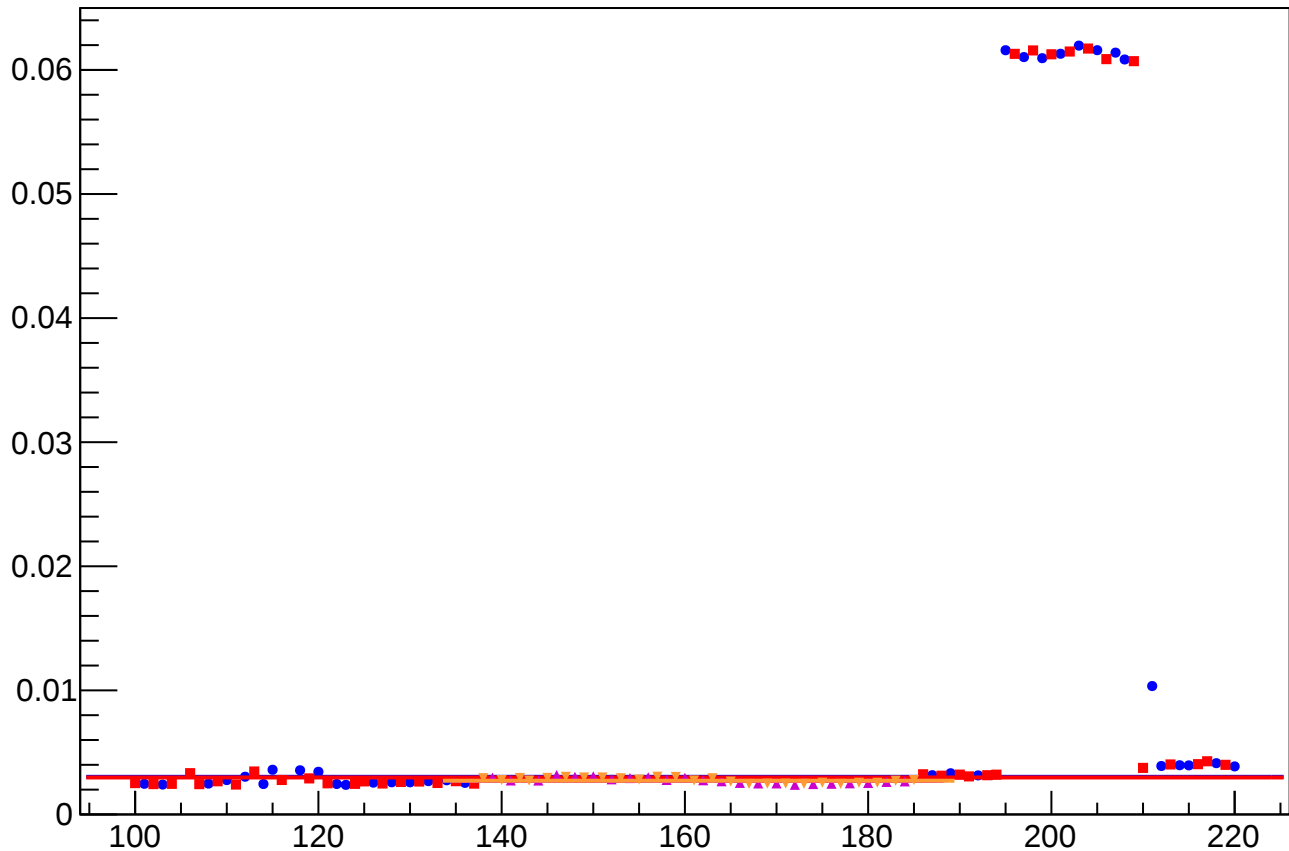
All: 0.008 $\pm$ 0.000 χ^2 /NDF: 15343691.1/118

yield_bpm0l06Y_mean vs Slug, Sign Corrected



Right In: -1.726+/-0.000	χ^2/NDF : 431227822996.5/33	Left: -1.795+/-0.000	χ^2/NDF : 345099435201.4/47
Left Out: -1.799+/-0.000	χ^2/NDF : 185362087438.8/24	Right: -1.719+/-0.000	χ^2/NDF : 841549996503.6/70
Right Out: -1.714+/-0.000	χ^2/NDF : 410213697314.9/36	In: -1.767+/-0.000	χ^2/NDF : 594229205885.2/56
Left In: -1.790+/-0.000	χ^2/NDF : 159648935510.8/22	Out: -1.766+/-0.000	χ^2/NDF : 602265471405.1/61
		All: -1.766+/-0.000	χ^2/NDF : 1196498129696

yield_bpm0l06Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 12257021.7/33

Left Out: 0.003+/-0.000 χ^2/NDF :199695.2/24

Right Out: 0.003+/-0.000 χ^2/NDF : 10478092.9/36

Left In: 0.003+/-0.000 χ^2/NDF :220327.9/22

Left: 0.003+/-0.000 χ^2/NDF : 420716.9/47

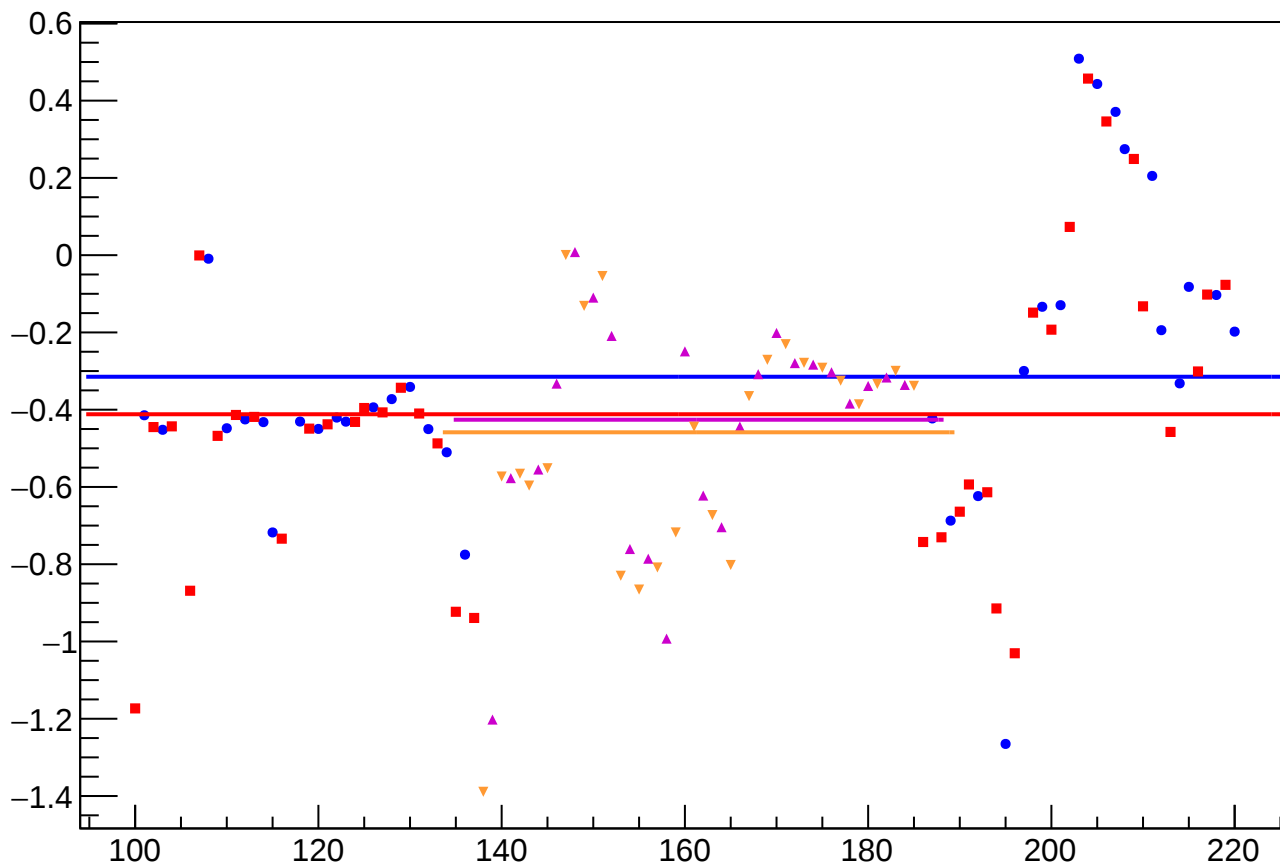
Right: 0.003+/-0.000 χ^2/NDF : 22738851.5/70

In: 0.003+/-0.000 χ^2/NDF :12656843.6/56

Out: 0.003+/-0.000 χ^2/NDF :10804012.4/61

All: 0.003+/-0.000 χ^2/NDF : 23460856.1/118

yield_bpm0l07X_mean vs Slug, Sign Corrected



Right In: -0.315+/-0.000

χ^2/NDF : 11059735285.8/33

Left: -0.443+/-0.000

χ^2/NDF : 18401926676.9/47

Left Out: -0.459+/-0.000

χ^2/NDF : 9916462814.9/24

Right: -0.365+/-0.000

χ^2/NDF : 22137680002.1/70

Right Out: -0.412+/-0.000

χ^2/NDF : 10650195659.7/36

In: -0.378+/-0.000

χ^2/NDF : 20094236160.2/56

Out: -0.438+/-0.000

χ^2/NDF : 20681308560.9/61

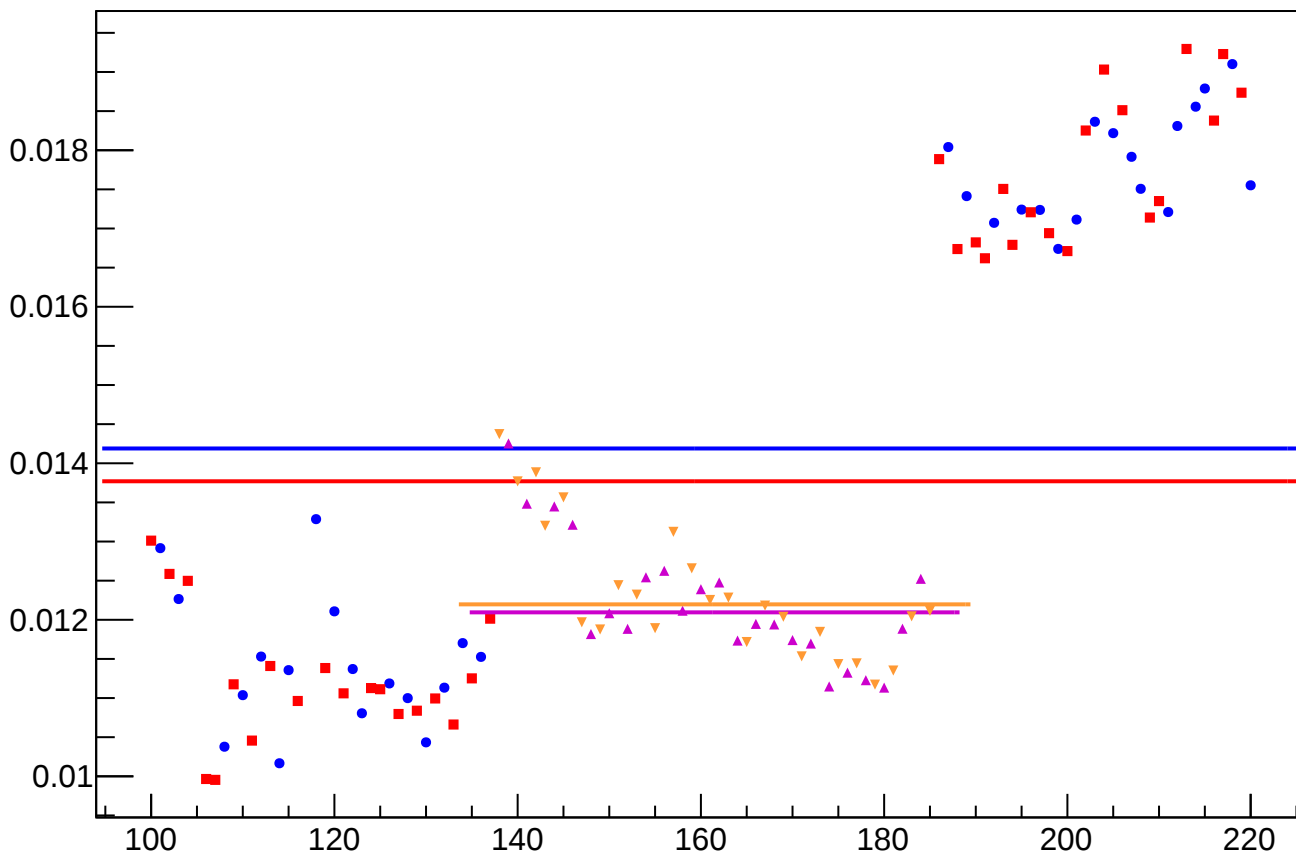
Left In: -0.426+/-0.000

χ^2/NDF : 8424222576.0/22

All: -0.409+/-0.000

χ^2/NDF : 41148563473.6/100

yield_bpm0l07X_rms vs Slug, Sign Corrected



Right In: 0.014+/-0.000 χ^2/NDF : 1775128.9/33

Left Out: 0.012+/-0.000 χ^2/NDF :141850.9/24

Right Out: 0.014+/-0.000 χ^2/NDF : 2084896.5/36

Left In: 0.012+/-0.000 χ^2/NDF :127308.3/22

Left: 0.012+/-0.000 χ^2/NDF : 270367.5/47

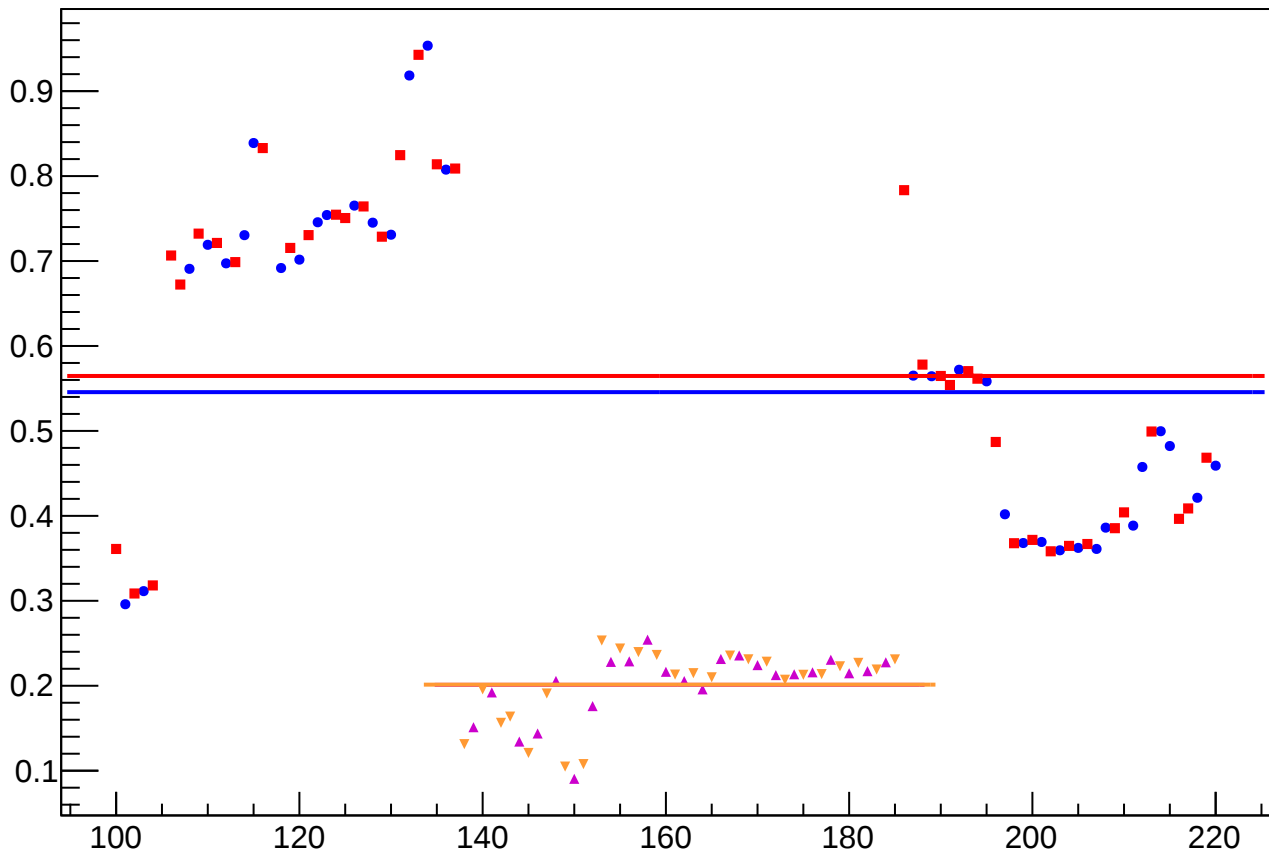
Right: 0.014+/-0.000 χ^2/NDF : 3875967.1/70

In: 0.013+/-0.000 χ^2/NDF :2334739.1/56

Out: 0.013+/-0.000 χ^2/NDF :2486651.5/61

All: 0.013+/-0.000 χ^2/NDF : 4823806.1/118

yield_bpm0l07Y_mean vs Slug, Sign Corrected



Right In: 0.546 $\pm$ 0.000 χ^2 /NDF: 78242485778.6/33

Left Out: 0.201 $\pm$ 0.000 χ^2 /NDF: 7090760823.7/24

Right Out: 0.565 $\pm$ 0.000 χ^2 /NDF: 77723971742.5/36

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

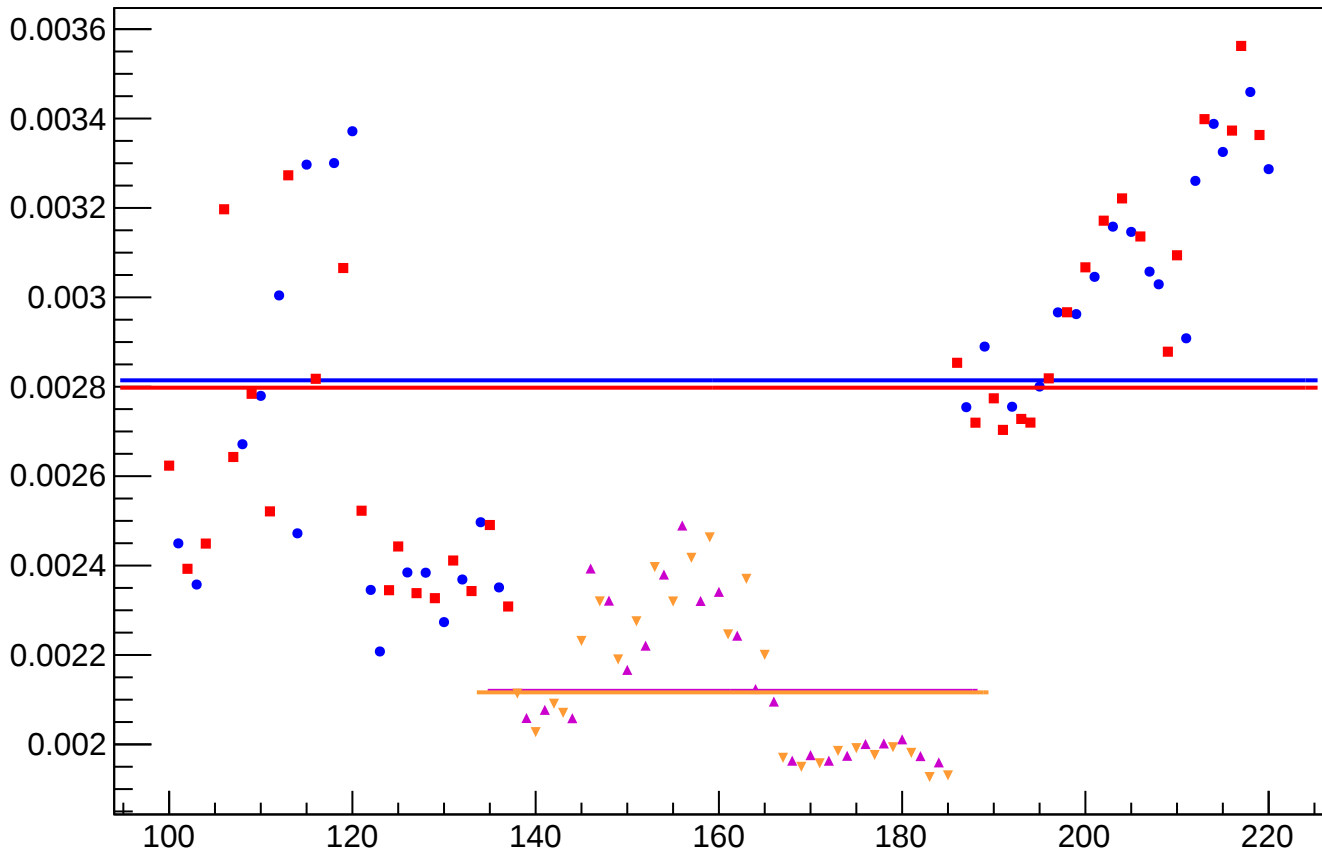
Right: 0.555 $\pm$ 0.000 χ^2 /NDF: 156388314314.0/70

In: 0.330 $\pm$ 0.000 χ^2 /NDF: 253730709961.0/56

Out: 0.336 $\pm$ 0.000 χ^2 /NDF: 282281170945.1/61

All: 0.333 $\pm$ 0.000 χ^2 /NDF: 536095968600.6

yield_bpm0l07Y_rms vs Slug, Sign Corrected



Right In: 0.003+/-0.000 χ^2/NDF : 625800.4/33

Left Out: 0.002+/-0.000 χ^2/NDF :224498.3/24

Right Out: 0.003+/-0.000 χ^2/NDF : 565959.4/36

Left In: 0.002+/-0.000 χ^2/NDF :189228.6/22

Left: 0.002+/-0.000 χ^2/NDF : 413772.2/47

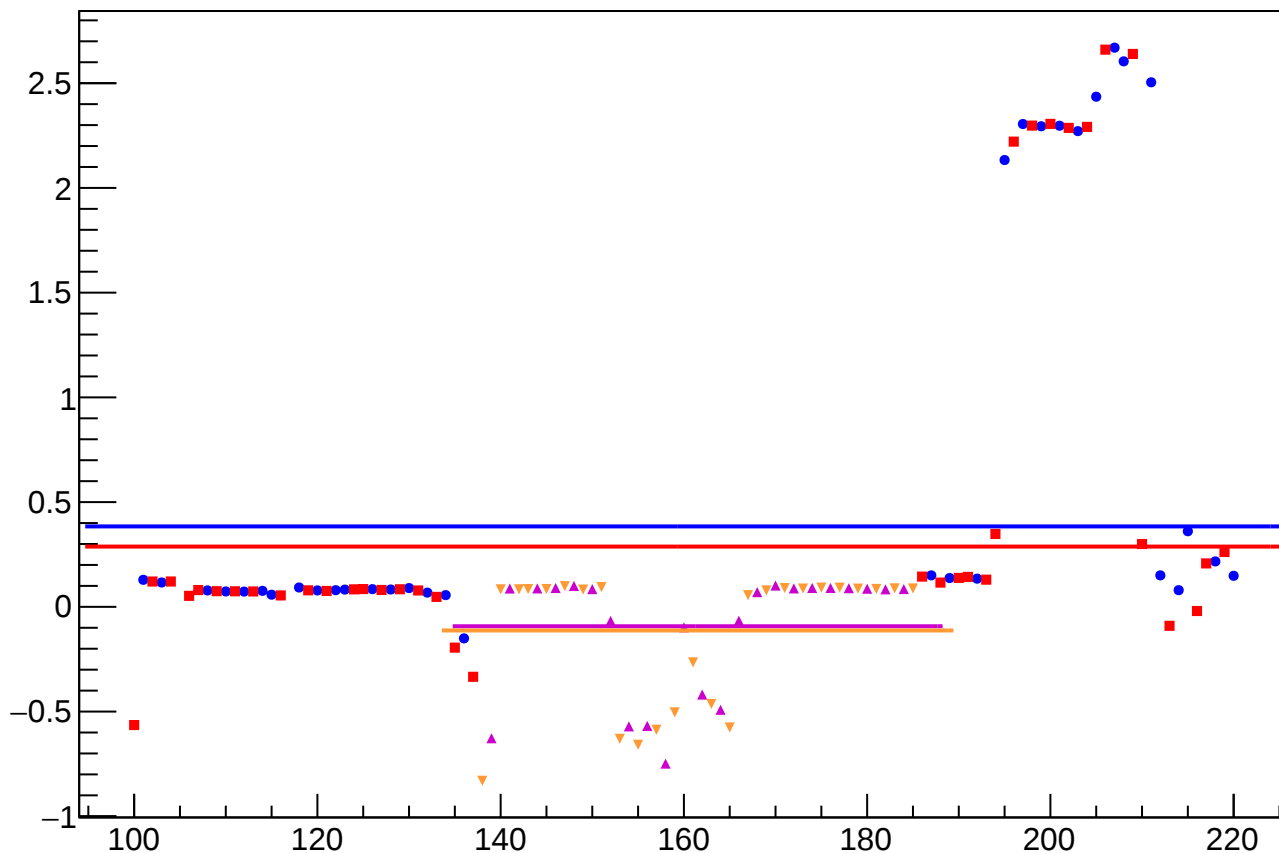
Right: 0.003+/-0.000 χ^2/NDF : 1192391.9/70

In: 0.002+/-0.000 χ^2/NDF :2194933.8/56

Out: 0.002+/-0.000 χ^2/NDF :2179799.5/61

All: 0.002+/-0.000 χ^2/NDF : 4375678.1/118

yield_bpm0l08X_mean vs Slug, Sign Corrected



Right In: 0.384+/-0.000

χ^2/NDF : 61633904890.2/33

Left: -0.103+/-0.000

χ^2/NDF : 24747894543.0/47

Left Out: -0.113+/-0.000

χ^2/NDF : 13667354077.1/24

Right: 0.333+/-0.000

χ^2/NDF : 114549318340.8/70

Right Out: 0.288+/-0.000

χ^2/NDF : 52423515713.0/36

In: 0.107+/-0.000

χ^2/NDF : 85870168343.3/56

Left In: -0.093+/-0.000

χ^2/NDF : 11051944893.7/22

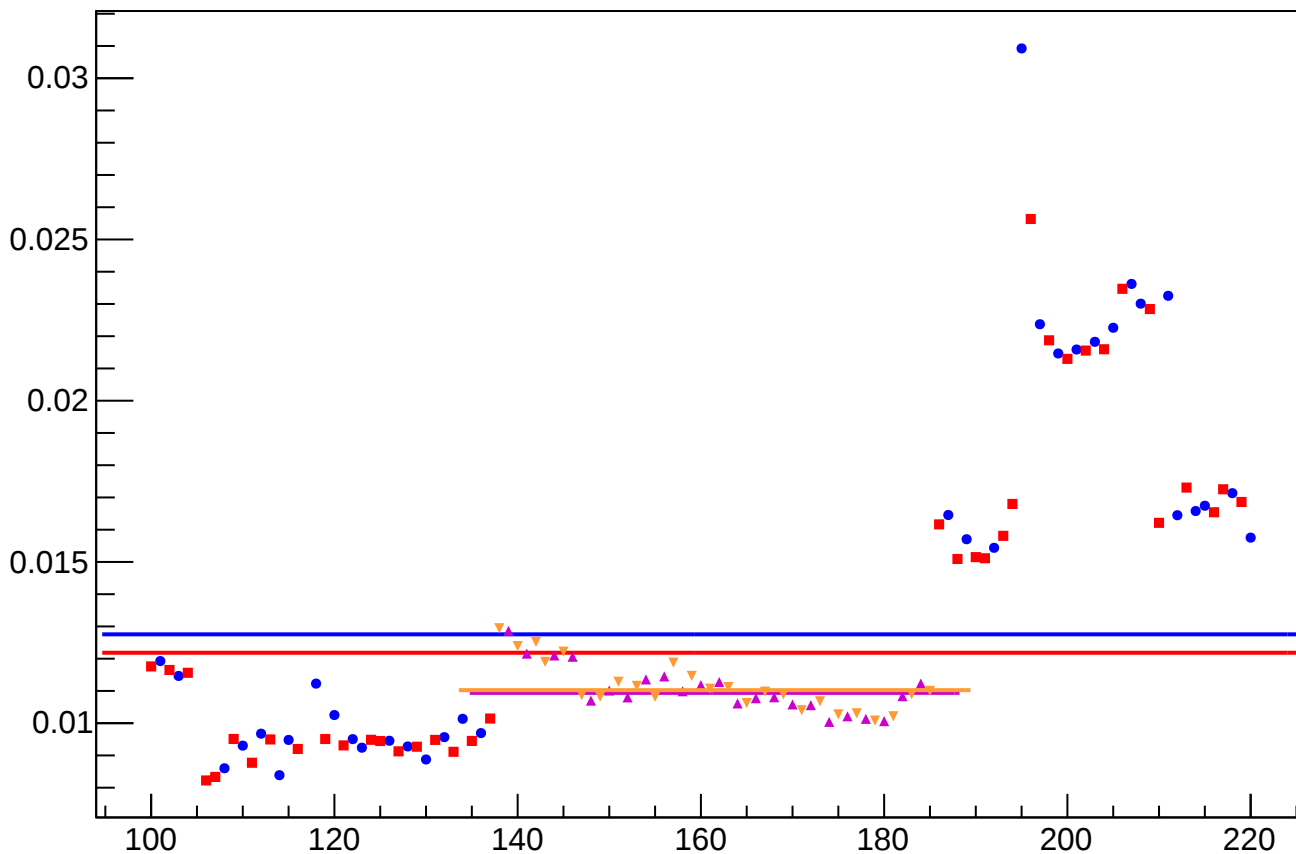
Out: 0.063+/-0.000

χ^2/NDF : 76283057495.9/61

All: 0.084+/-0.000

χ^2/NDF : 162390510557.0

yield_bpm0l08X_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 4632228.9/33

Left Out: 0.011+/-0.000 χ^2/NDF :141501.7/24

Right Out: 0.012+/-0.000 χ^2/NDF : 4404792.0/36

Left In: 0.011+/-0.000 χ^2/NDF :128914.2/22

Left: 0.011+/-0.000 χ^2/NDF : 271400.1/47

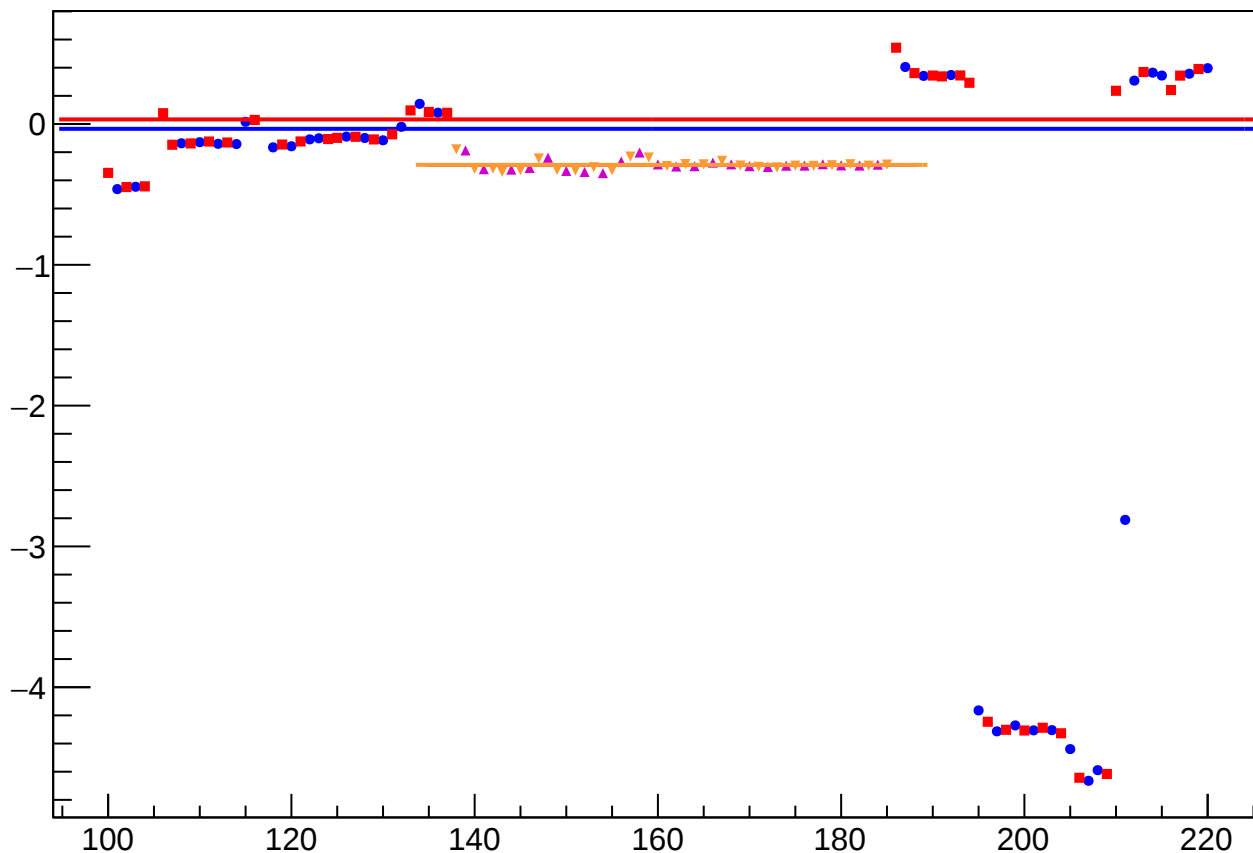
Right: 0.012+/-0.000 χ^2/NDF : 9071529.8/70

In: 0.012+/-0.000 χ^2/NDF :5143370.9/56

Out: 0.012+/-0.000 χ^2/NDF :4717668.1/61

All: 0.012+/-0.000 χ^2/NDF : 9867894.8/118

yield_bpm0l08Y_mean vs Slug, Sign Corrected



Right In: -0.034+/-0.000

χ^2/NDF : 406603193114.9/33

Left: -0.291+/-0.000

χ^2/NDF : 6003615293.4/47

Left Out: -0.290+/-0.000

χ^2/NDF : 2877519093.0/24

Right: 0.001+/-0.000

χ^2/NDF : 764997412055.3/70

Right Out: 0.033+/-0.000

χ^2/NDF : 356864128232.7/36

In: -0.233+/-0.000

χ^2/NDF : 442696867059.0/56

Out: -0.214+/-0.000

χ^2/NDF : 417724477329.1/61

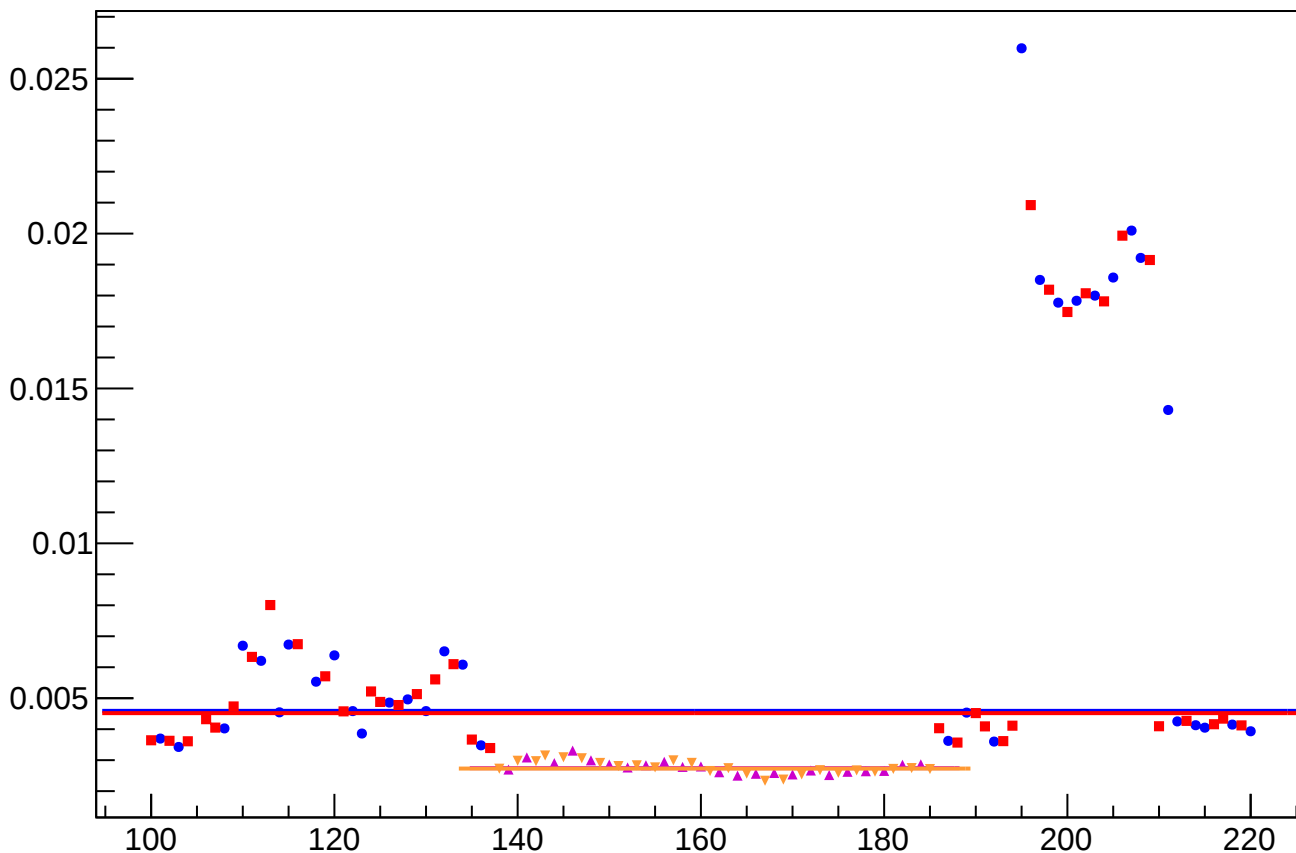
Left In: -0.291+/-0.000

χ^2/NDF : 3125402243.3/22

All: -0.223+/-0.000

χ^2/NDF : 860927235336.3

yield_bpm0l08Y_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 8651826.9/33

Left Out: 0.003+/-0.000 χ^2/NDF :206527.1/24

Right Out: 0.005+/-0.000 χ^2/NDF : 6993907.2/36

Left In: 0.003+/-0.000 χ^2/NDF :147778.8/22

Left: 0.003+/-0.000 χ^2/NDF : 354733.7/47

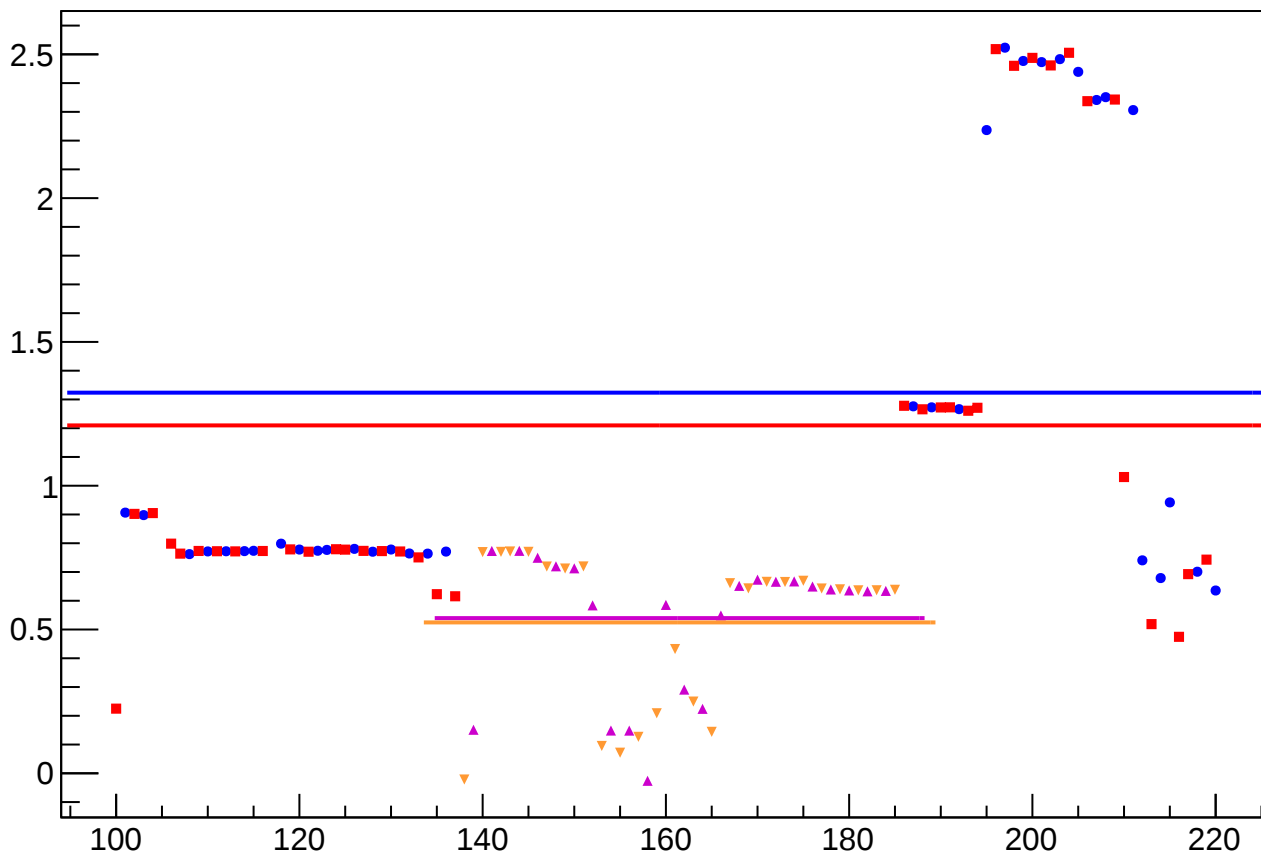
Right: 0.005+/-0.000 χ^2/NDF : 15649416.4/70

In: 0.003+/-0.000 χ^2/NDF :12215791.5/56

Out: 0.003+/-0.000 χ^2/NDF :10759936.7/61

All: 0.003+/-0.000 χ^2/NDF : 22976178.1/118

yield_bpm0l09X_mean vs Slug, Sign Corrected



Right In: 1.324+/-0.000

χ^2/NDF : 62119555495.2/33

Left: 0.532+/-0.000

χ^2/NDF : 17500739852.2/47

Left Out: 0.525+/-0.000

χ^2/NDF : 9623503169.9/24

Right: 1.264+/-0.000

χ^2/NDF : 120404348542.9/70

Right Out: 1.210+/-0.000

χ^2/NDF : 57548000355.3/36

In: 0.875+/-0.000

χ^2/NDF : 108387685669.5/56

Out: 0.824+/-0.000

χ^2/NDF : 98447308325.4/61

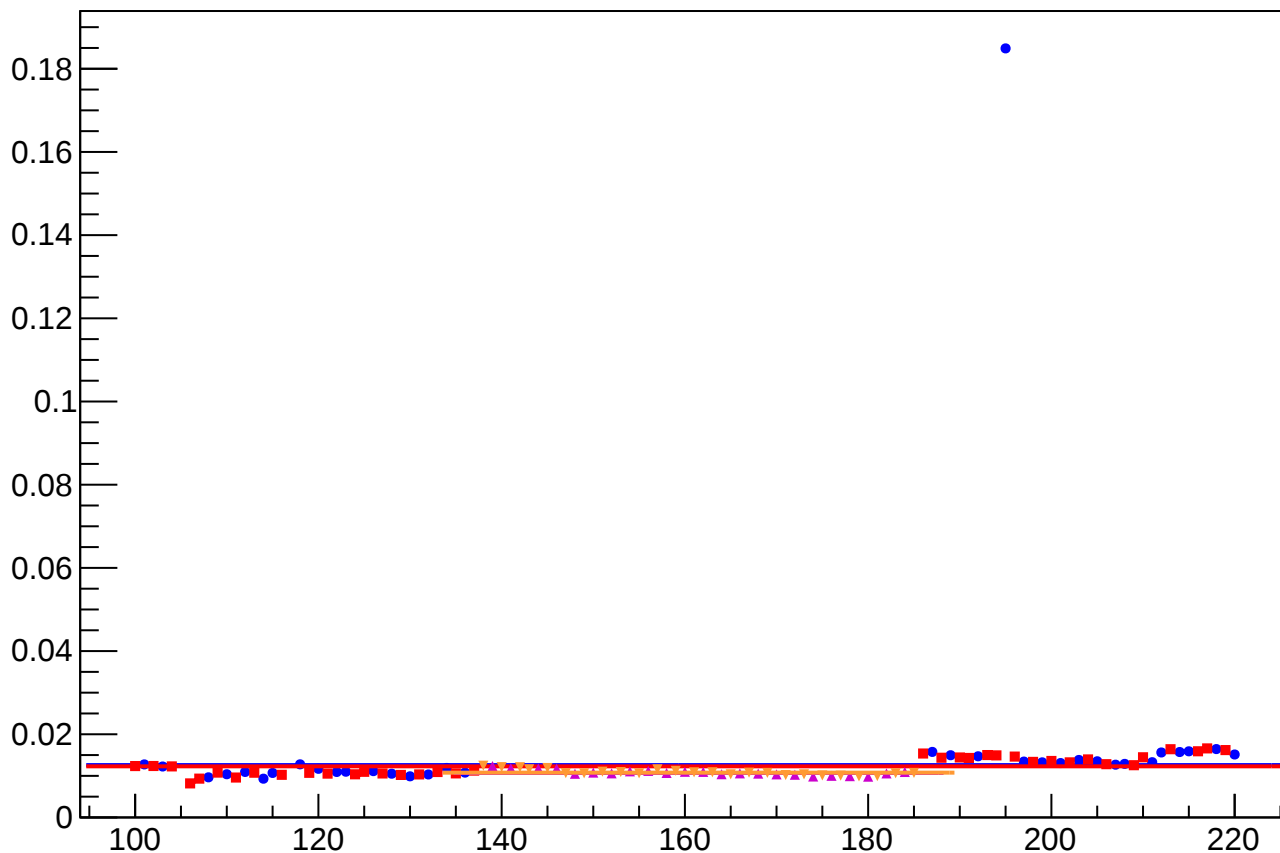
Left In: 0.540+/-0.000

χ^2/NDF : 7860539135.5/22

All: 0.849+/-0.000

χ^2/NDF : 207180338371.6

yield_bpm0l09X_rms vs Slug, Sign Corrected



Right In: 0.013+/-0.000 χ^2/NDF : 2250985.5/33

Left Out: 0.011+/-0.000 χ^2/NDF :131630.9/24

Right Out: 0.012+/-0.000 χ^2/NDF : 1145263.0/36

Left In: 0.011+/-0.000 χ^2/NDF :119273.2/22

Left: 0.011+/-0.000 χ^2/NDF : 251802.6/47

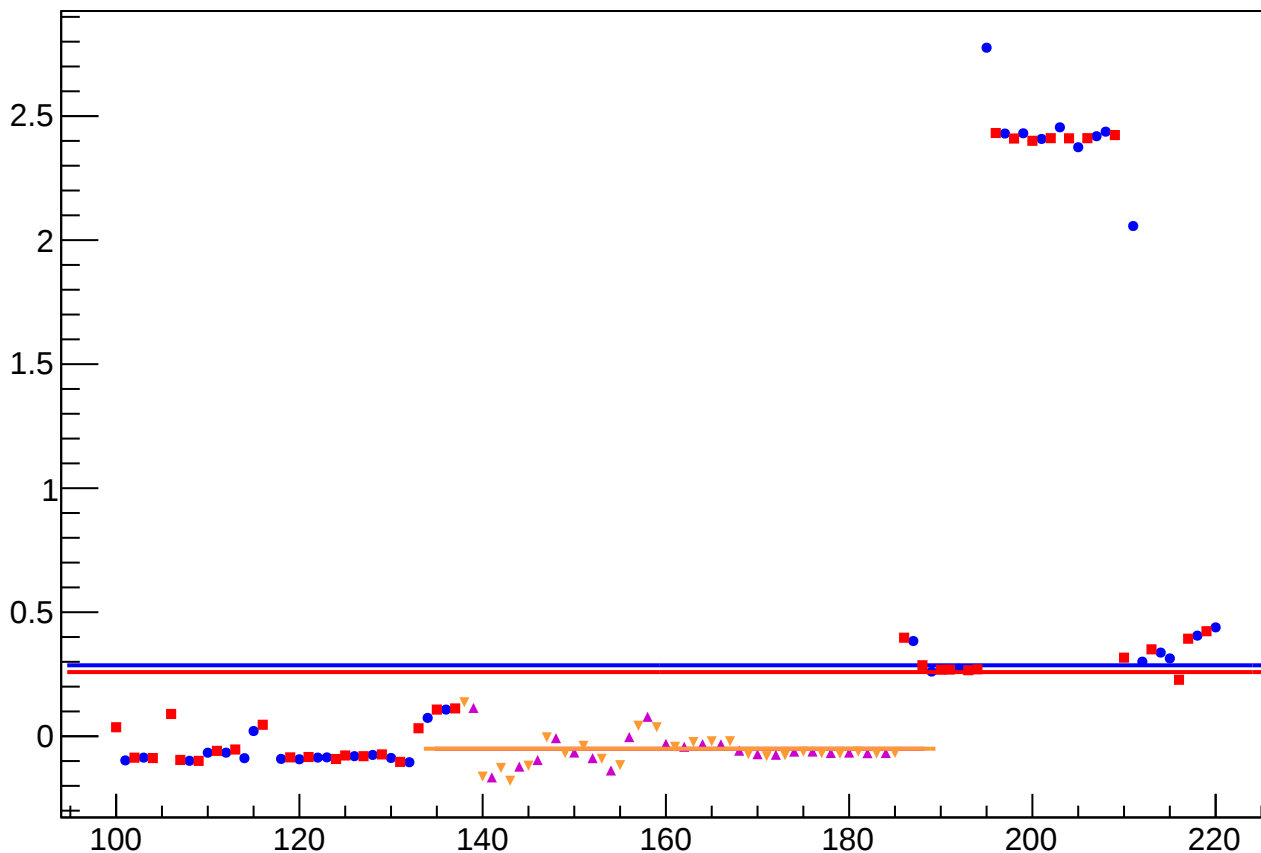
Right: 0.012+/-0.000 χ^2/NDF : 3406421.2/70

In: 0.012+/-0.000 χ^2/NDF :2819573.6/56

Out: 0.011+/-0.000 χ^2/NDF :1584534.2/61

All: 0.011+/-0.000 χ^2/NDF : 4405406.8/118

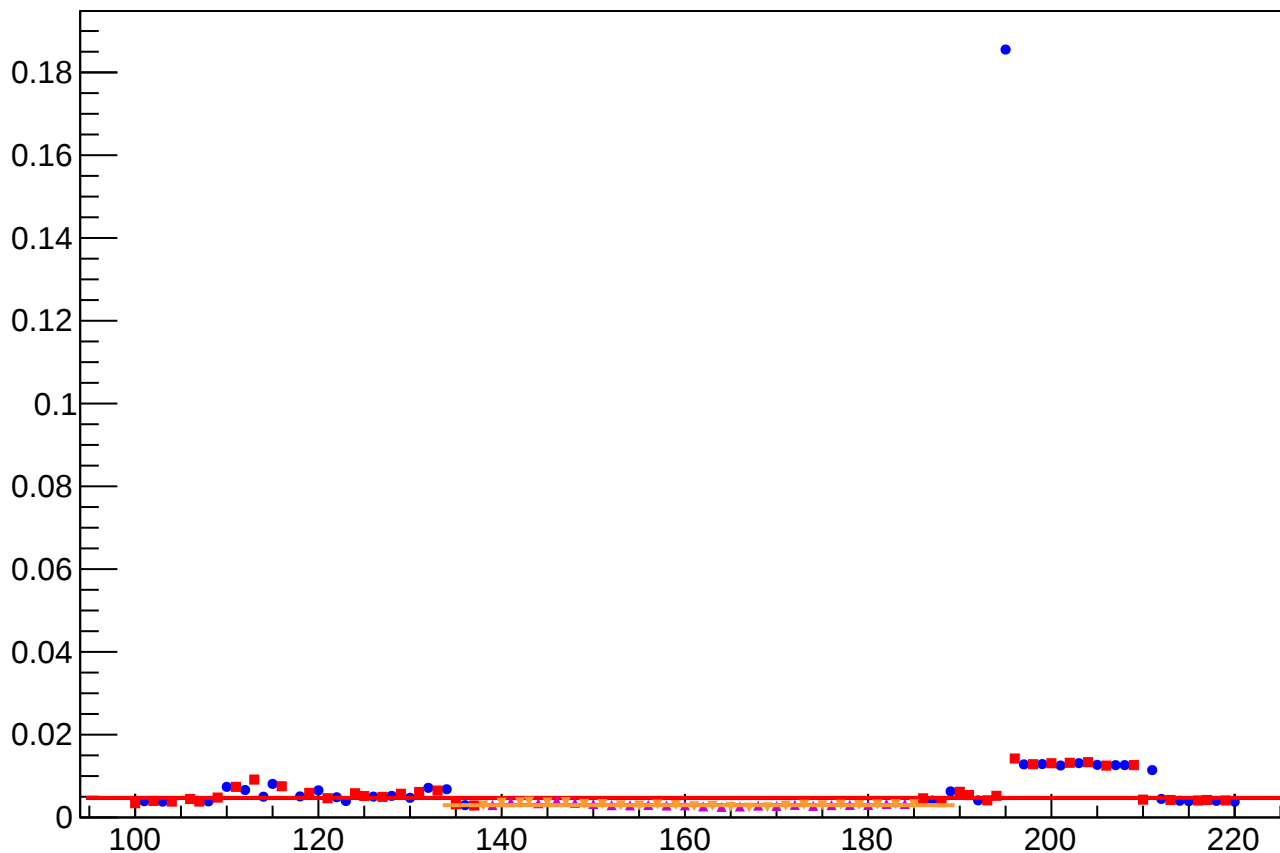
yield_bpm0l09Y_mean vs Slug, Sign Corrected



Left: -0.050 $\pm$ 0.000 χ^2/NDF : 13400329490.2/47
 Right: 0.272 $\pm$ 0.000 χ^2/NDF : 360976063127.1/70
 In: 0.038 $\pm$ 0.000 χ^2/NDF : 257288012317.2/56
 Out: 0.028 $\pm$ 0.000 χ^2/NDF : 217032477356.1/61
 All: 0.033 $\pm$ 0.000 χ^2/NDF : 474428688218.2

Right In: 0.286 $\pm$ 0.000 χ^2/NDF : 198215251097.4/33
 Left Out: -0.050 $\pm$ 0.000 χ^2/NDF : 7271496478.6/24
 Right Out: 0.259 $\pm$ 0.000 χ^2/NDF : 162517921756.7/36
 Left In: -0.051 $\pm$ 0.000 χ^2/NDF : 6128769990.8/22

yield_bpm0l09Y_rms vs Slug, Sign Corrected



Right In: 0.005+/-0.000 χ^2/NDF : 7599432.2/33

Left Out: 0.003+/-0.000 χ^2/NDF : 499039.1/24

Right Out: 0.005+/-0.000 χ^2/NDF : 5261990.6/36

Left In: 0.003+/-0.000 χ^2/NDF : 329068.1/22

Left: 0.003+/-0.000 χ^2/NDF : 831077.6/47

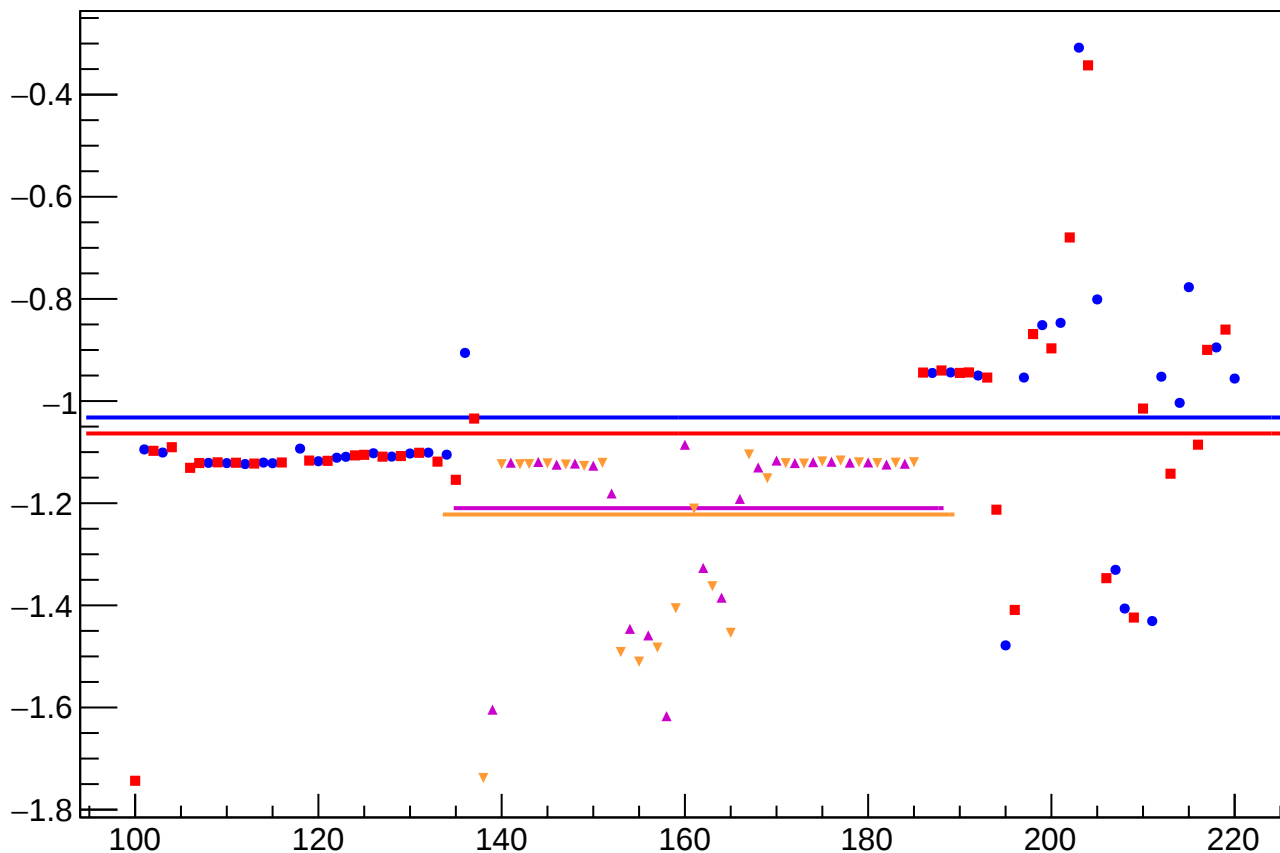
Right: 0.005+/-0.000 χ^2/NDF : 12862966.8/70

In: 0.003+/-0.000 χ^2/NDF : 10566123.7/56

Out: 0.003+/-0.000 χ^2/NDF : 8857441.3/61

All: 0.003+/-0.000 χ^2/NDF : 19425801.1/118

yield_bpm0l10X_mean vs Slug, Sign Corrected



Right In: -1.032+/-0.000 χ^2/NDF : 5968713006.2/33

Left Out: -1.222+/-0.000 χ^2/NDF : 5279548861.3/24

Right Out: -1.063+/-0.000 χ^2/NDF : 4915432608.4/36

Left In: -1.210+/-0.000 χ^2/NDF : 4502367902.8/22

Left: -1.216+/-0.000 χ^2/NDF : 9796254294.5/47

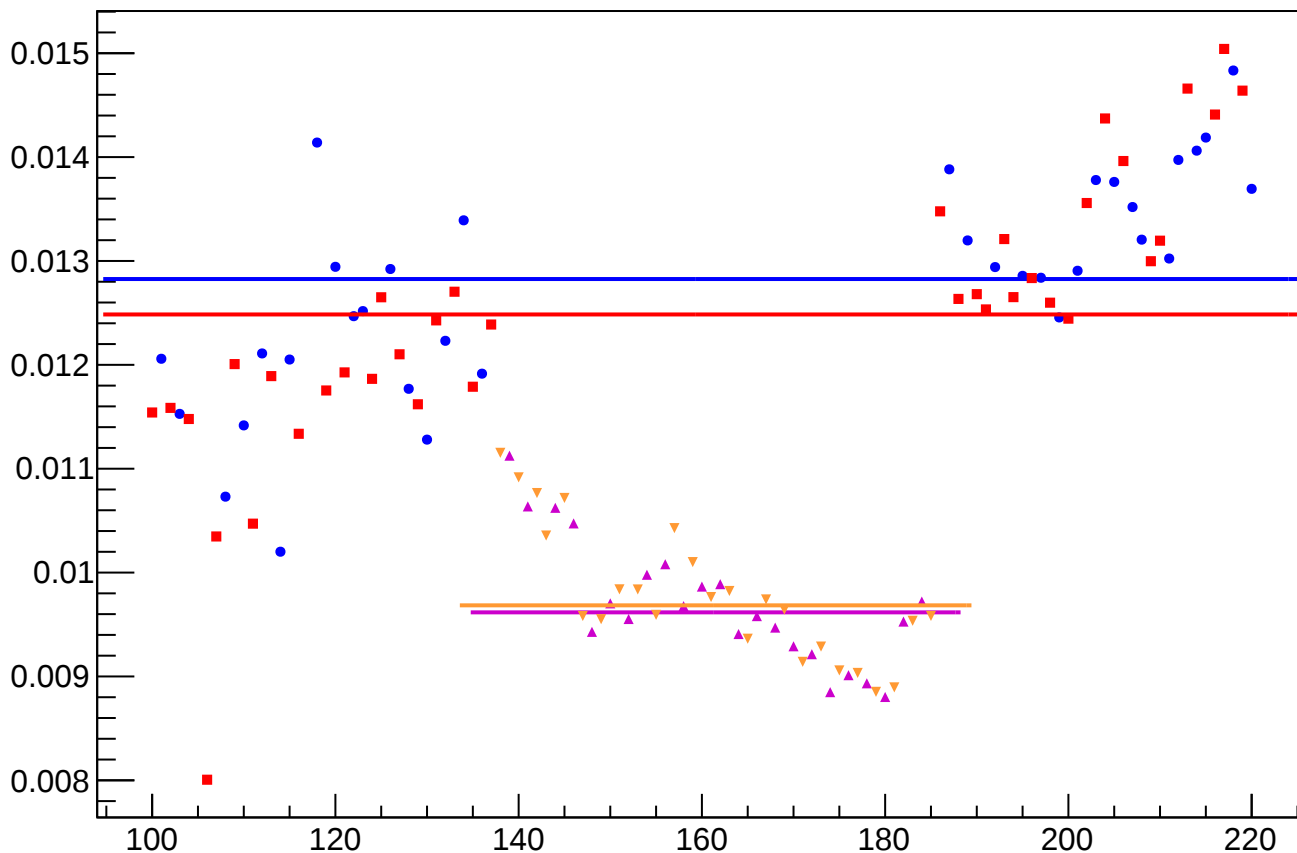
Right: -1.048+/-0.000 χ^2/NDF : 10940731450.6/70

In: -1.142+/-0.000 χ^2/NDF : 12643871008.3/56

Out: -1.161+/-0.000 χ^2/NDF : 12045315431.5/61

All: -1.152+/-0.000 χ^2/NDF : 24740095626.4/117

yield_bpm0l10X_rms vs Slug, Sign Corrected



Right In: 0.013 $\pm$ 0.000 χ^2/NDF : 214371.7/33

Left Out: 0.010 $\pm$ 0.000 χ^2/NDF :134863.6/24

Right Out: 0.012 $\pm$ 0.000 χ^2/NDF : 478546.3/36

Left In: 0.010 $\pm$ 0.000 χ^2/NDF :119823.1/22

Left: 0.010 $\pm$ 0.000 χ^2/NDF : 255532.7/47

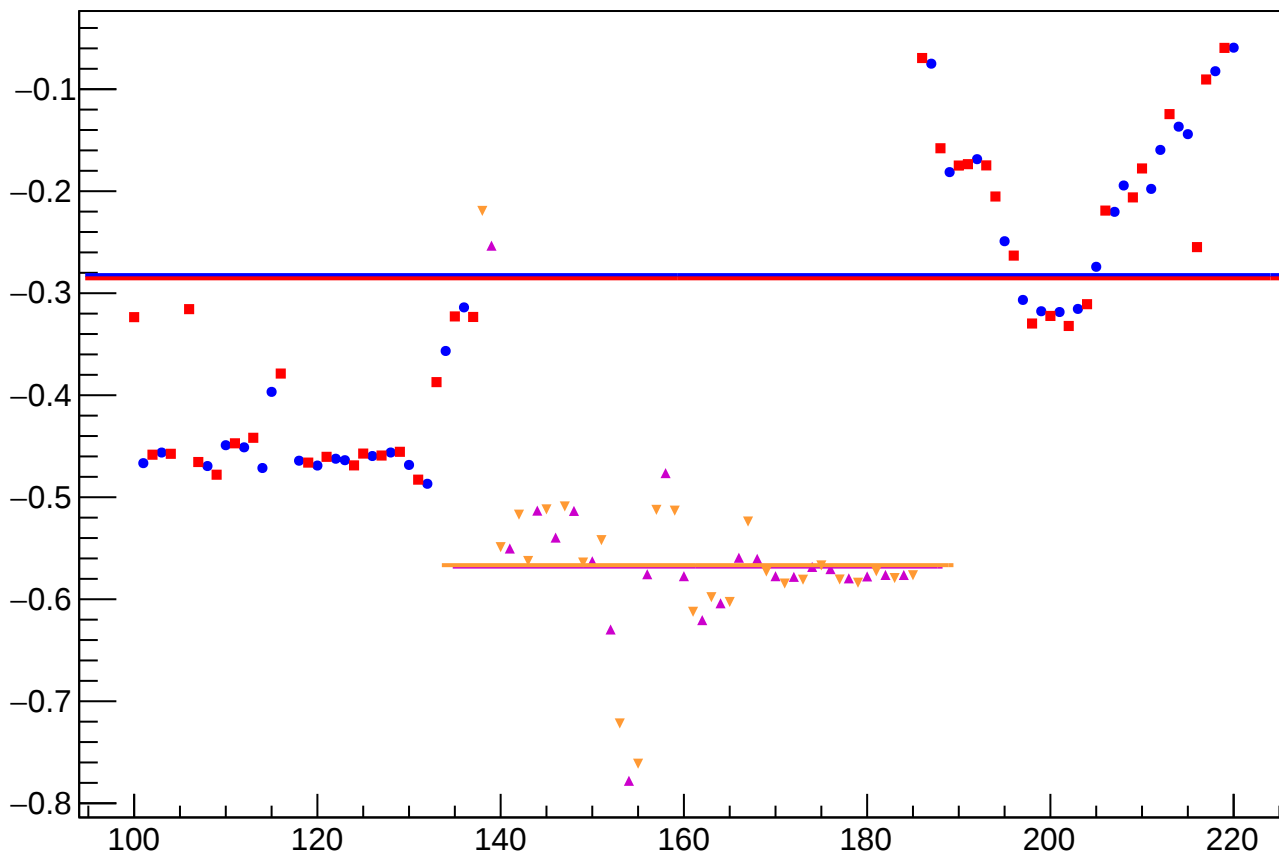
Right: 0.013 $\pm$ 0.000 χ^2/NDF : 706356.5/70

In: 0.011 $\pm$ 0.000 χ^2/NDF :1754259.0/56

Out: 0.011 $\pm$ 0.000 χ^2/NDF :1766293.5/61

All: 0.011 $\pm$ 0.000 χ^2/NDF : 3521878.5/118

yield_bpm0l10Y_mean vs Slug, Sign Corrected



Right In: -0.282+/-0.000 χ^2/NDF : 19864951353.1/33

Left Out: -0.567+/-0.000 χ^2/NDF : 13368458519.3/24

Right Out: -0.285+/-0.000 χ^2/NDF : 19240969677.3/36

Left In: -0.568+/-0.000 χ^2/NDF : 10458990019.9/22

Left: -0.567+/-0.000 χ^2/NDF : 23829000396.4/47

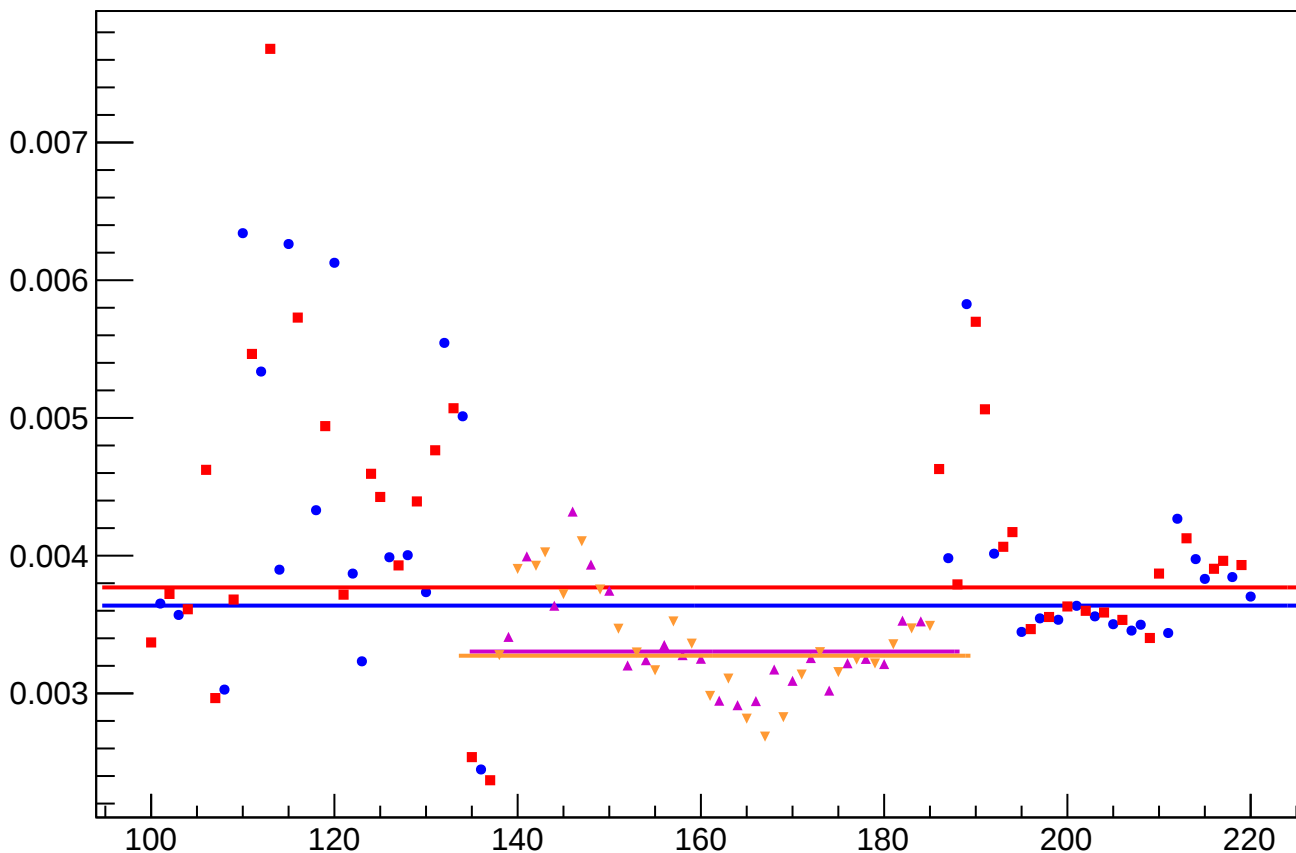
Right: -0.284+/-0.000 χ^2/NDF : 39112307378.5/70

In: -0.434+/-0.000 χ^2/NDF : 86845084476.7/56

Out: -0.444+/-0.000 χ^2/NDF : 87950645423.9/61

All: -0.439+/-0.000 χ^2/NDF : 174921816178.8

yield_bpm0l10Y_rms vs Slug, Sign Corrected



Right In: 0.004+/-0.000 χ^2/NDF : 1057708.2/33

Left Out: 0.003+/-0.000 χ^2/NDF : 394865.4/24

Right Out: 0.004+/-0.000 χ^2/NDF : 1107898.0/36

Left In: 0.003+/-0.000 χ^2/NDF : 286064.1/22

Left: 0.003+/-0.000 χ^2/NDF : 682340.4/47

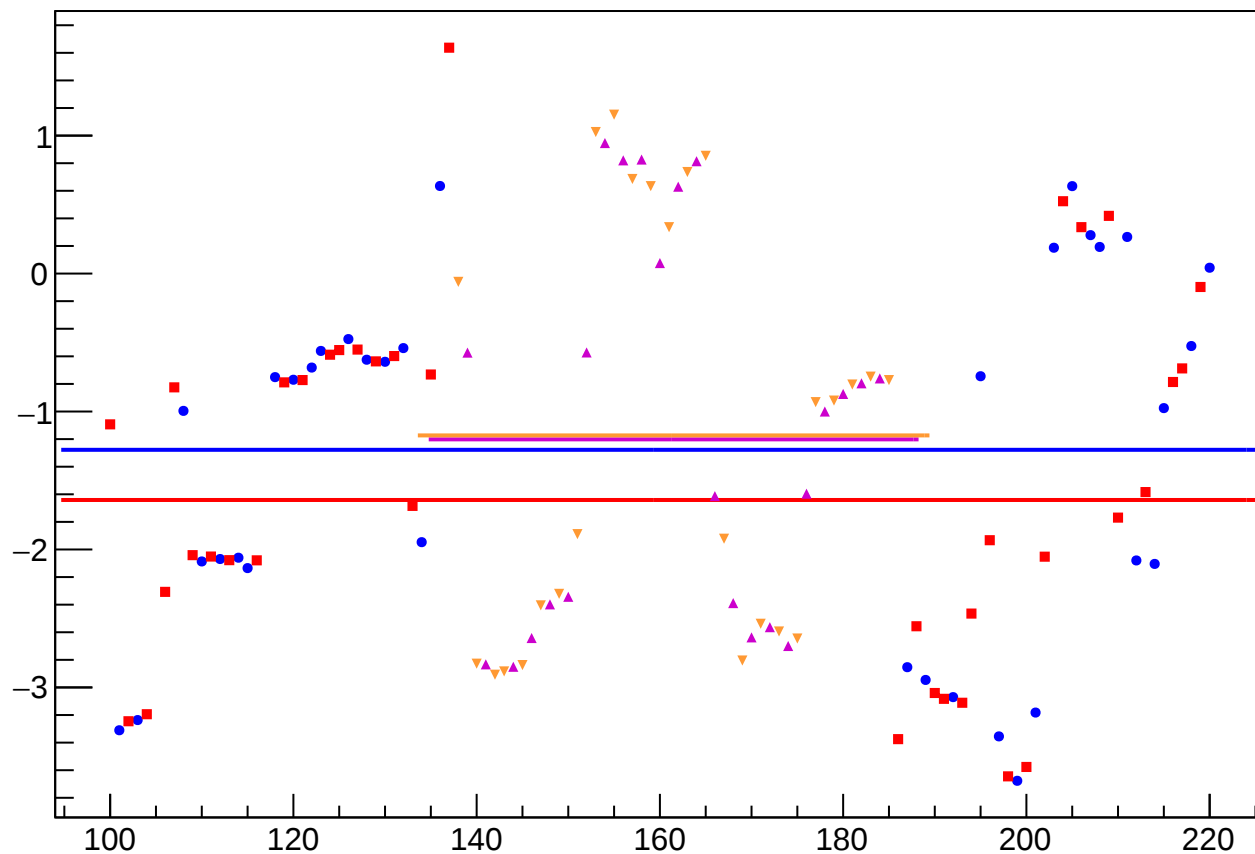
Right: 0.004+/-0.000 χ^2/NDF : 2187803.0/70

In: 0.003+/-0.000 χ^2/NDF : 1497873.7/56

Out: 0.003+/-0.000 χ^2/NDF : 1847251.7/61

All: 0.003+/-0.000 χ^2/NDF : 3347710.6/118

yield_bpm0r03X_mean vs Slug, Sign Corrected



Right In: -1.278 ± 0.000

χ^2/NDF : 6512102362.2/33

Left Out: -1.173 ± 0.000

χ^2/NDF : 6882684653.2/24

Right Out: -1.641 ± 0.000

χ^2/NDF : 5673259406.2/36

Left In: -1.202 ± 0.000

χ^2/NDF : 5606782515.9/22

Left: -1.187 ± 0.000

χ^2/NDF : 12490828303.3/47

Right: -1.461 ± 0.000

χ^2/NDF : 12402184364.4/70

In: -1.240 ± 0.000

χ^2/NDF : 12128125926.3/56

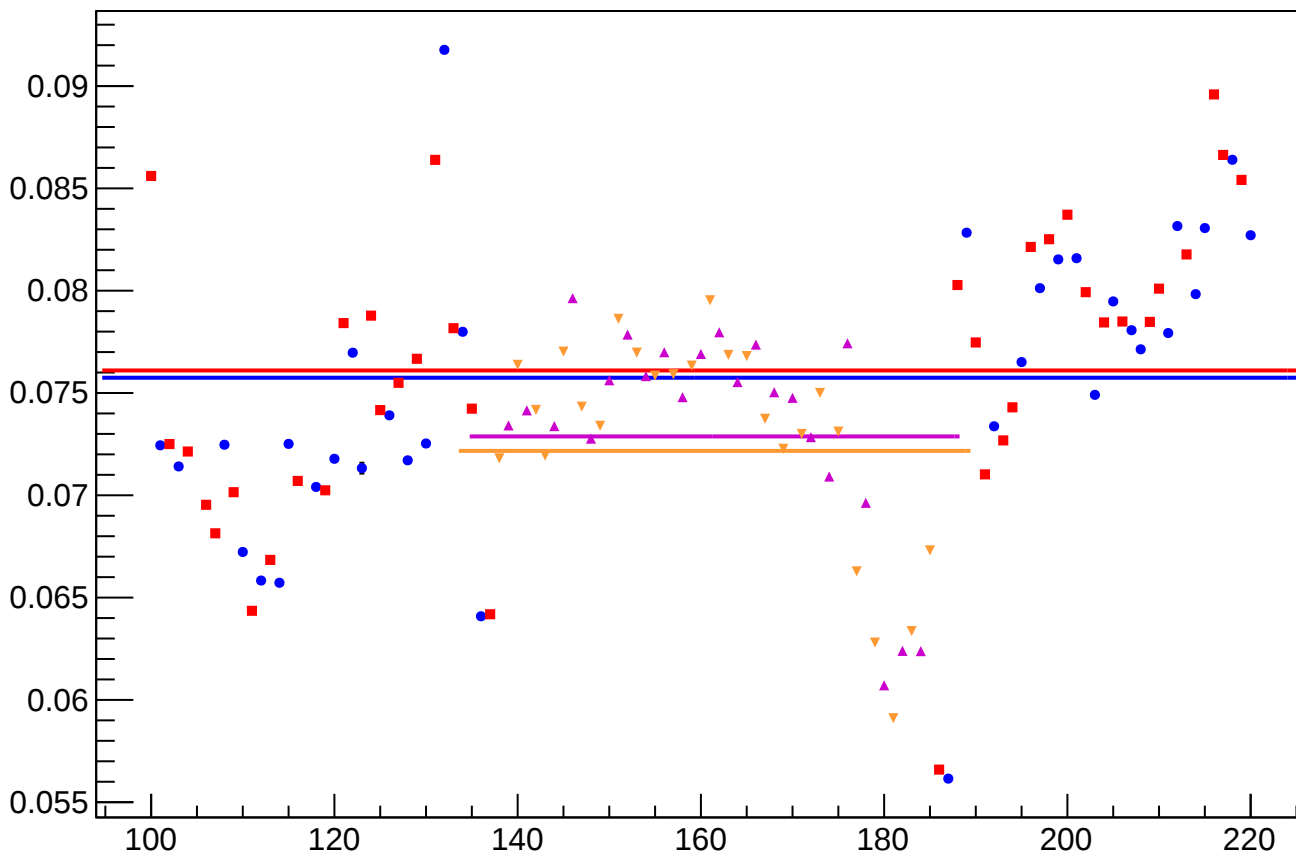
Out: -1.402 ± 0.000

χ^2/NDF : 12926663269.7/61

All: -1.323 ± 0.000

χ^2/NDF : 25141425075.7/197

yield_bpm0r03X_rms vs Slug, Sign Corrected



Right In: 0.076+/-0.000 χ^2/NDF : 269362.7/33

Left Out: 0.072+/-0.000 χ^2/NDF :222263.8/24

Right Out: 0.076+/-0.000 χ^2/NDF : 330237.6/36

Left In: 0.073+/-0.000 χ^2/NDF :183503.0/22

Left: 0.073+/-0.000 χ^2/NDF : 407423.5/47

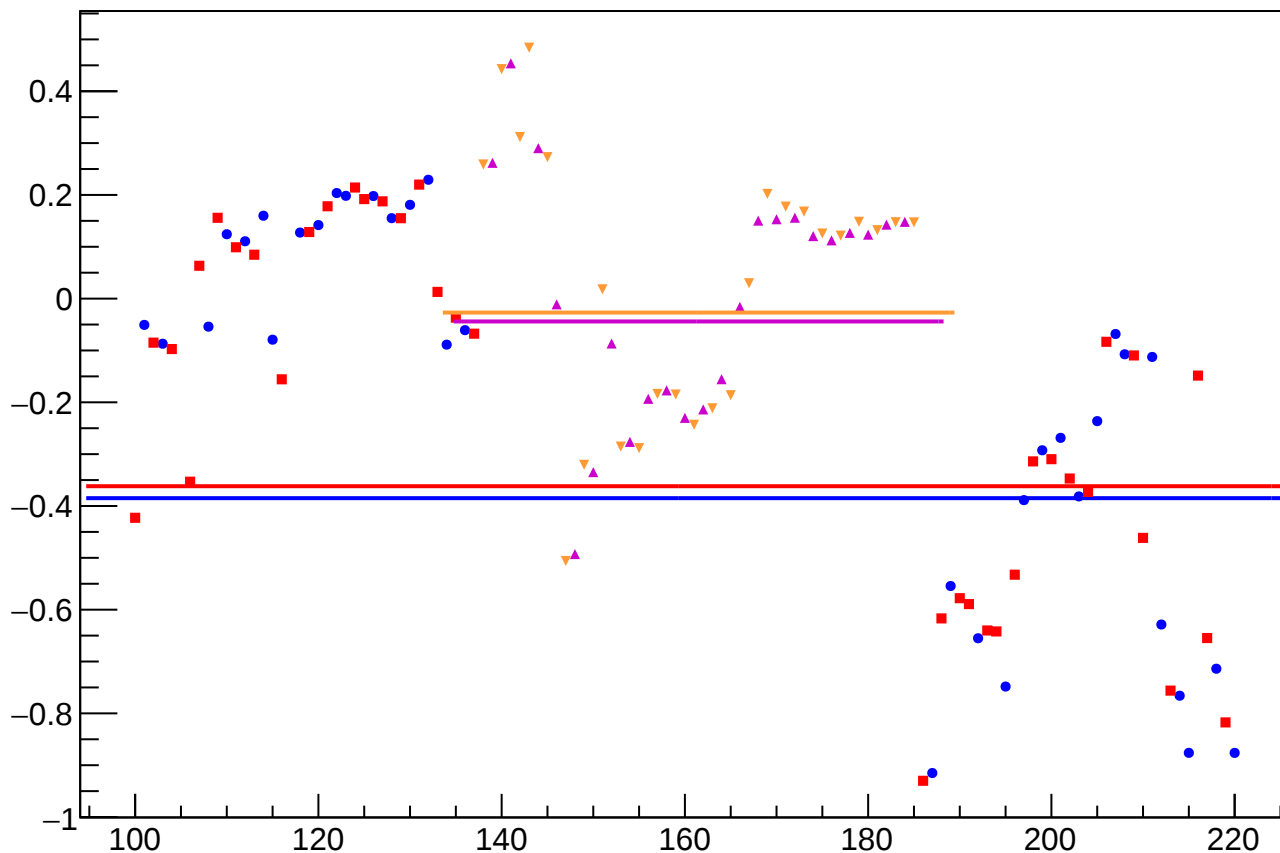
Right: 0.076+/-0.000 χ^2/NDF : 600015.3/70

In: 0.074+/-0.000 χ^2/NDF :479366.7/56

Out: 0.074+/-0.000 χ^2/NDF :604793.8/61

All: 0.074+/-0.000 χ^2/NDF : 1084512.9/118

yield_bpm0r03Y_mean vs Slug, Sign Corrected



Right In: -0.385 ± 0.000 $\chi^2/\text{NDF}: 29388450753.4/33$

Left Out: -0.027 ± 0.000 $\chi^2/\text{NDF}: 20376761328.6/24$

Right Out: -0.362 ± 0.000 $\chi^2/\text{NDF}: 20006823162.2/36$

Left In: -0.044 ± 0.000 $\chi^2/\text{NDF}: 15718556282.1/22$

Left: -0.035 ± 0.000 $\chi^2/\text{NDF}: 36148383394.4/47$

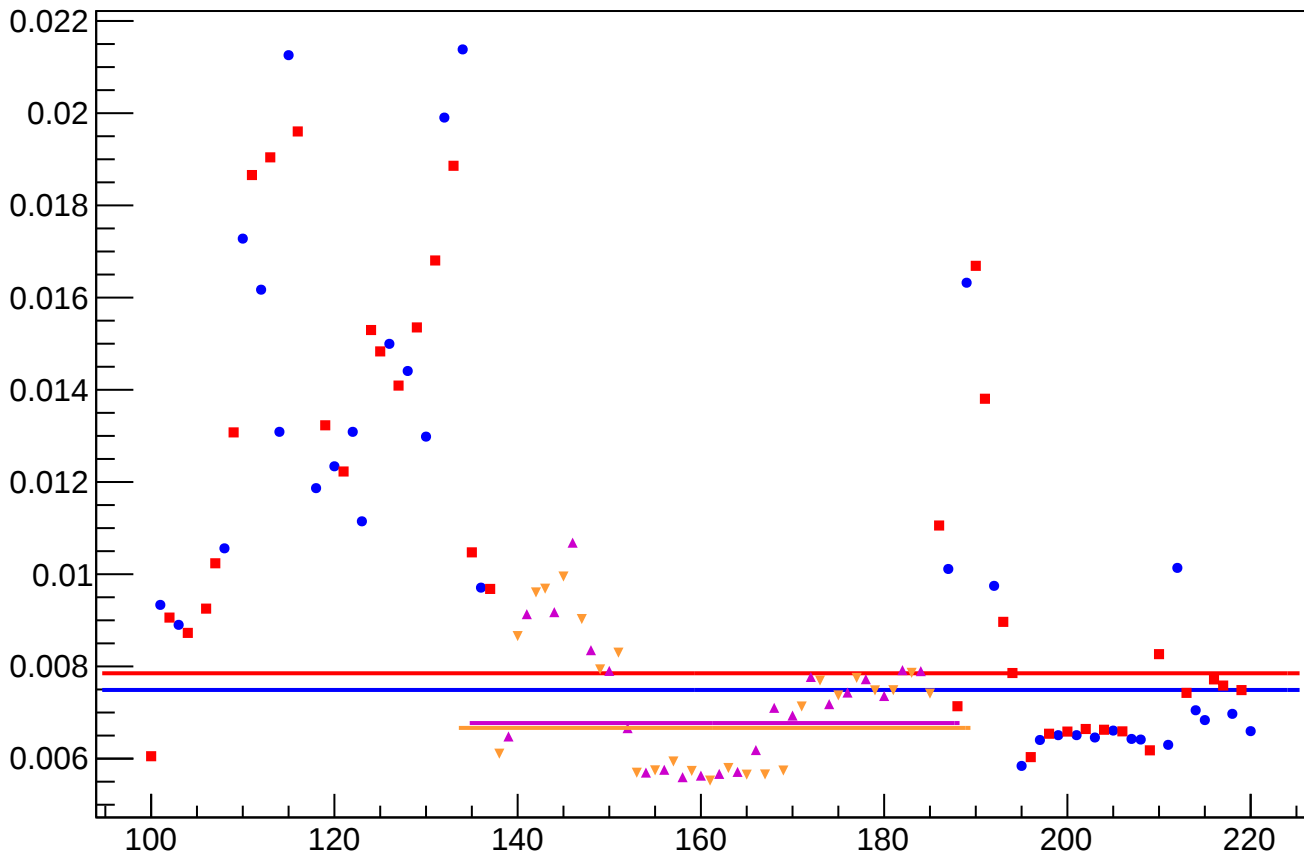
Right: -0.374 ± 0.000 $\chi^2/\text{NDF}: 49469496662.1/70$

In: -0.201 ± 0.000 $\chi^2/\text{NDF}: 63534566882.0/56$

Out: -0.165 ± 0.000 $\chi^2/\text{NDF}: 57921653984.9/61$

All: -0.183 ± 0.000 $\chi^2/\text{NDF}: 121855613576.4$

yield_bpm0r03Y_rms vs Slug, Sign Corrected



Right In: 0.007 $\pm$ 0.000 χ^2 /NDF: 3004271.1/33

Left Out: 0.007 $\pm$ 0.000 χ^2 /NDF:1143768.6/24

Right Out: 0.008 $\pm$ 0.000 χ^2 /NDF: 3086266.1/36

Left In: 0.007 $\pm$ 0.000 χ^2 /NDF:934050.3/22

Left: 0.007 $\pm$ 0.000 χ^2 /NDF: 2081836.1/47

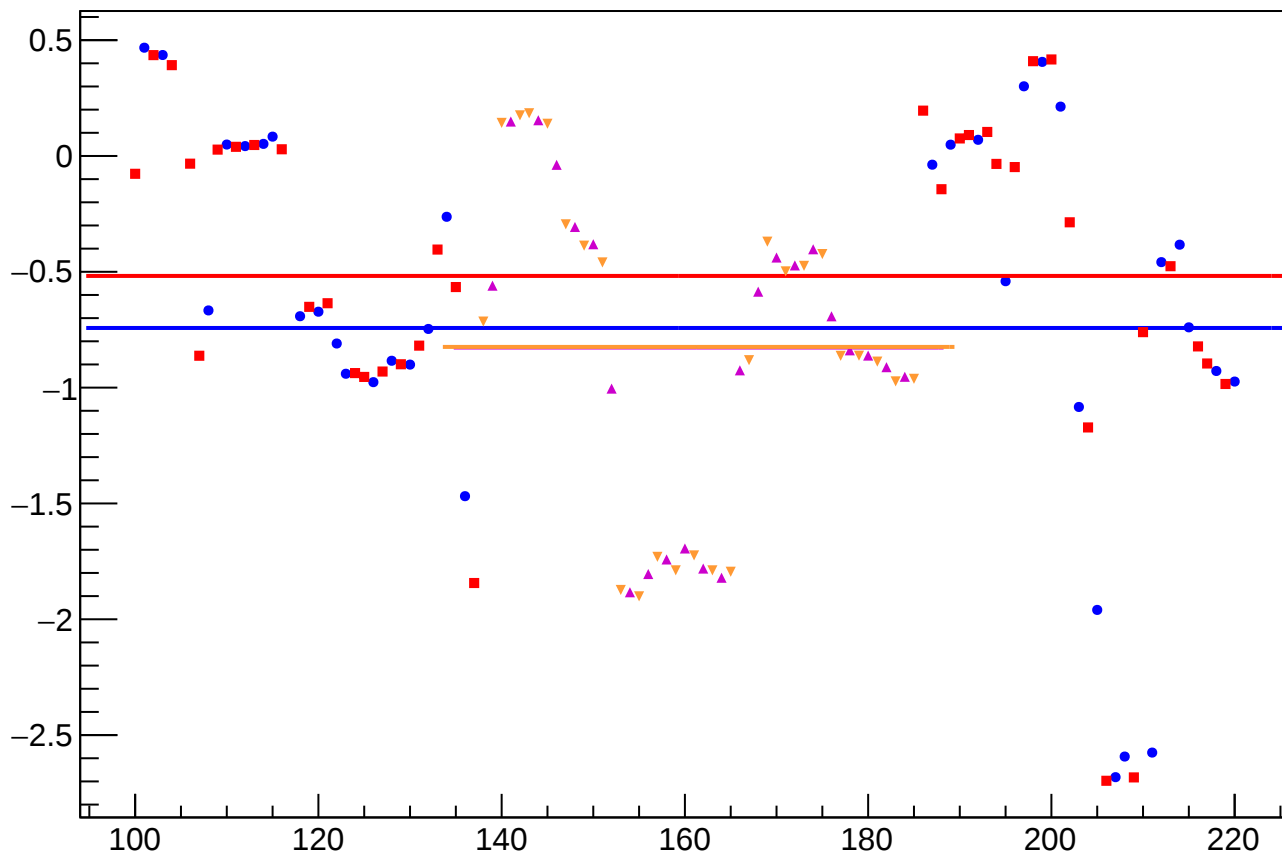
Right: 0.008 $\pm$ 0.000 χ^2 /NDF: 6127130.1/70

In: 0.007 $\pm$ 0.000 χ^2 /NDF:4101745.9/56

Out: 0.007 $\pm$ 0.000 χ^2 /NDF:4669163.9/61

All: 0.007 $\pm$ 0.000 χ^2 /NDF: 8772833.9/118

yield_bpm0r05X_mean vs Slug, Sign Corrected



Right In: -0.742+/-0.000

χ^2/NDF : 1774057110.7/33

Left: -0.826+/-0.000

χ^2/NDF : 2025270716.0/47

Left Out: -0.824+/-0.000

χ^2/NDF : 1103610806.5/24

Right: -0.629+/-0.000

χ^2/NDF : 3339674535.7/70

Right Out: -0.518+/-0.000

χ^2/NDF : 1510294641.3/36

In: -0.787+/-0.000

χ^2/NDF : 2703753151.6/56

Out: -0.682+/-0.000

χ^2/NDF : 2725541769.3/61

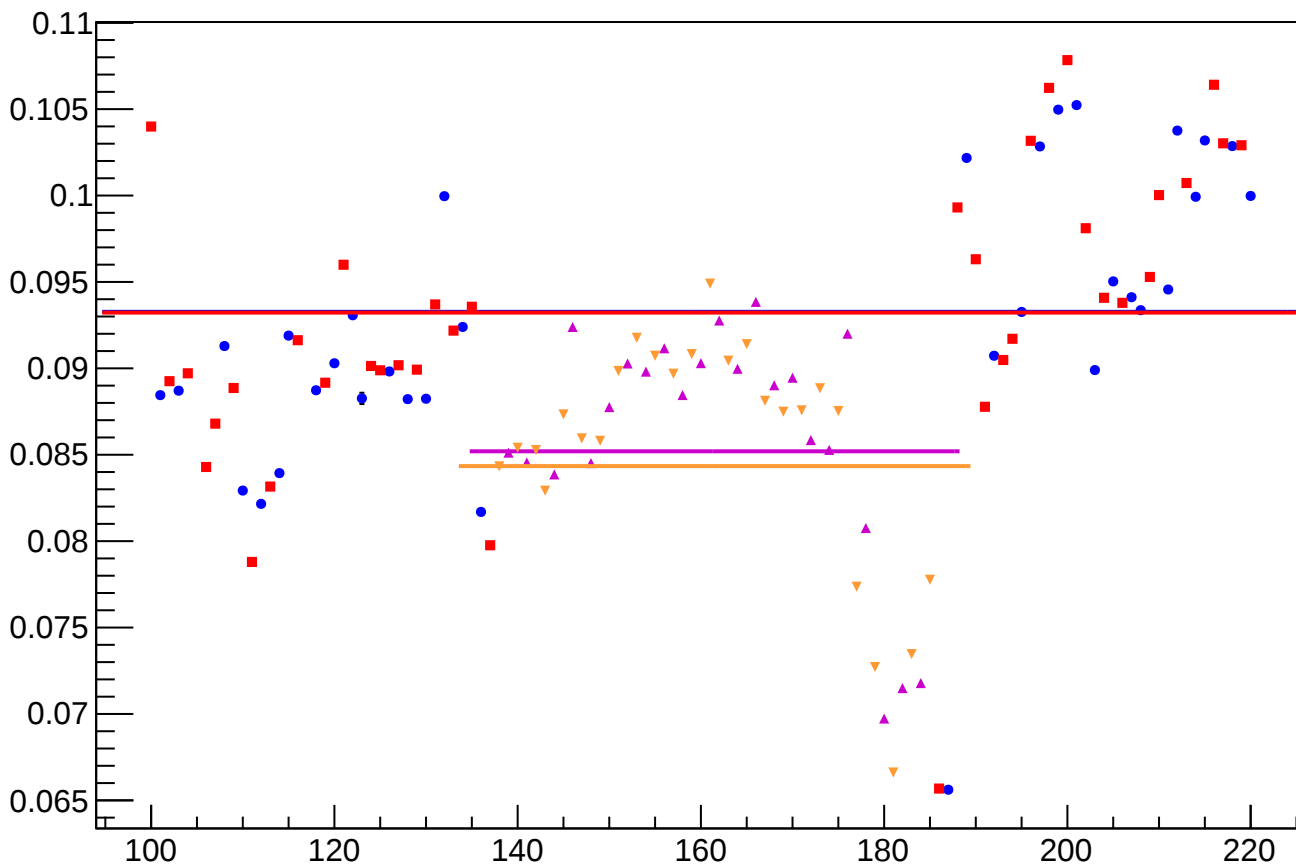
Left In: -0.827+/-0.000

χ^2/NDF : 921651117.3/22

All: -0.733+/-0.000

χ^2/NDF : 5454858700.2/1

yield_bpm0r05X_rms vs Slug, Sign Corrected



Right In: 0.093 $\pm$ 0.000 χ^2 /NDF: 259953.9/33

Left Out: 0.084 $\pm$ 0.000 χ^2 /NDF:288312.6/24

Right Out: 0.093 $\pm$ 0.000 χ^2 /NDF: 358092.0/36

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

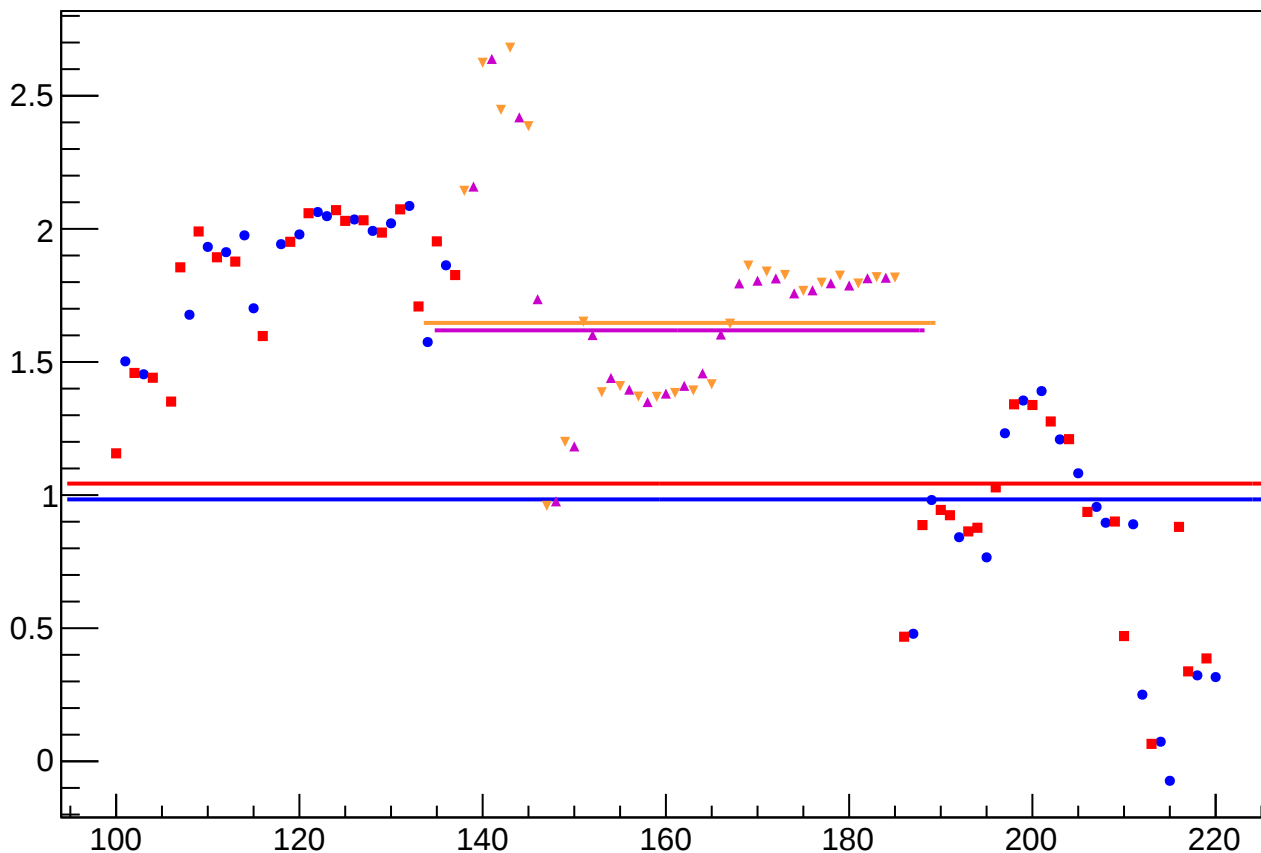
Right: 0.093 $\pm$ 0.000 χ^2 /NDF: 618050.1/70

In: 0.089 $\pm$ 0.000 χ^2 /NDF:645189.2/56

Out: 0.088 $\pm$ 0.000 χ^2 /NDF:834062.1/61

All: 0.089 $\pm$ 0.000 χ^2 /NDF: 1480824.8/118

yield_bpm0r05Y_mean vs Slug, Sign Corrected



Right In: 0.984+/-0.000 χ^2/NDF : 44884521999.6/33

Left Out: 1.647+/-0.000 χ^2/NDF : 26535241545.7/24

Right Out: 1.043+/-0.000 χ^2/NDF : 30991728567.5/36

Left In: 1.619+/-0.000 χ^2/NDF : 20618198188.1/22

Left: 1.633+/-0.000 χ^2/NDF : 47231460201.8/47

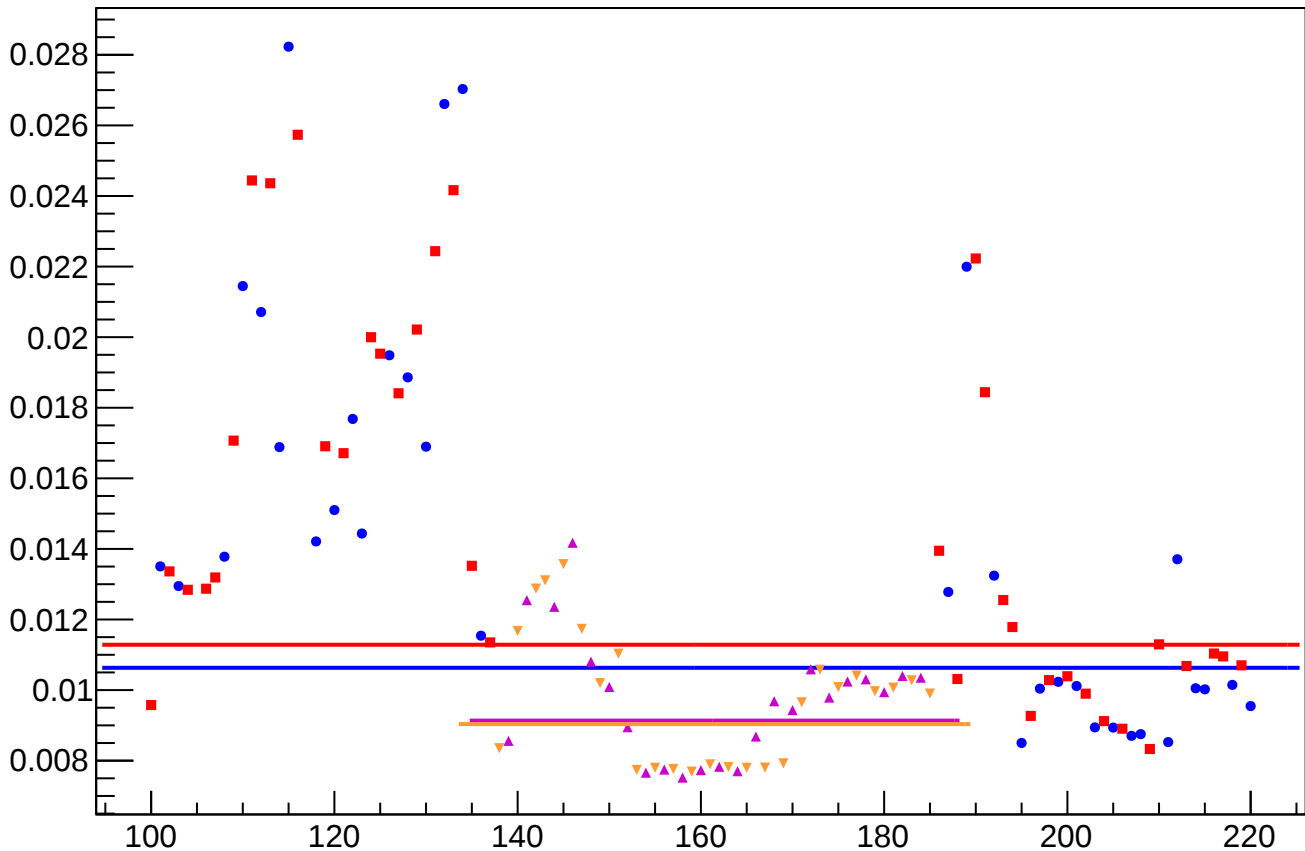
Right: 1.012+/-0.000 χ^2/NDF : 76122315139.1/70

In: 1.342+/-0.000 χ^2/NDF : 99175118480.0/56

Out: 1.413+/-0.000 χ^2/NDF : 86927425036.8/61

All: 1.377+/-0.000 χ^2/NDF : 186956053429.7

yield_bpm0r05Y_rms vs Slug, Sign Corrected



Right In: 0.011+/-0.000 χ^2/NDF : 2452669.9/33

Left Out: 0.009+/-0.000 χ^2/NDF :1042871.8/24

Right Out: 0.011+/-0.000 χ^2/NDF : 2537173.1/36

Left In: 0.009+/-0.000 χ^2/NDF :878356.2/22

Left: 0.009+/-0.000 χ^2/NDF : 1923188.0/47

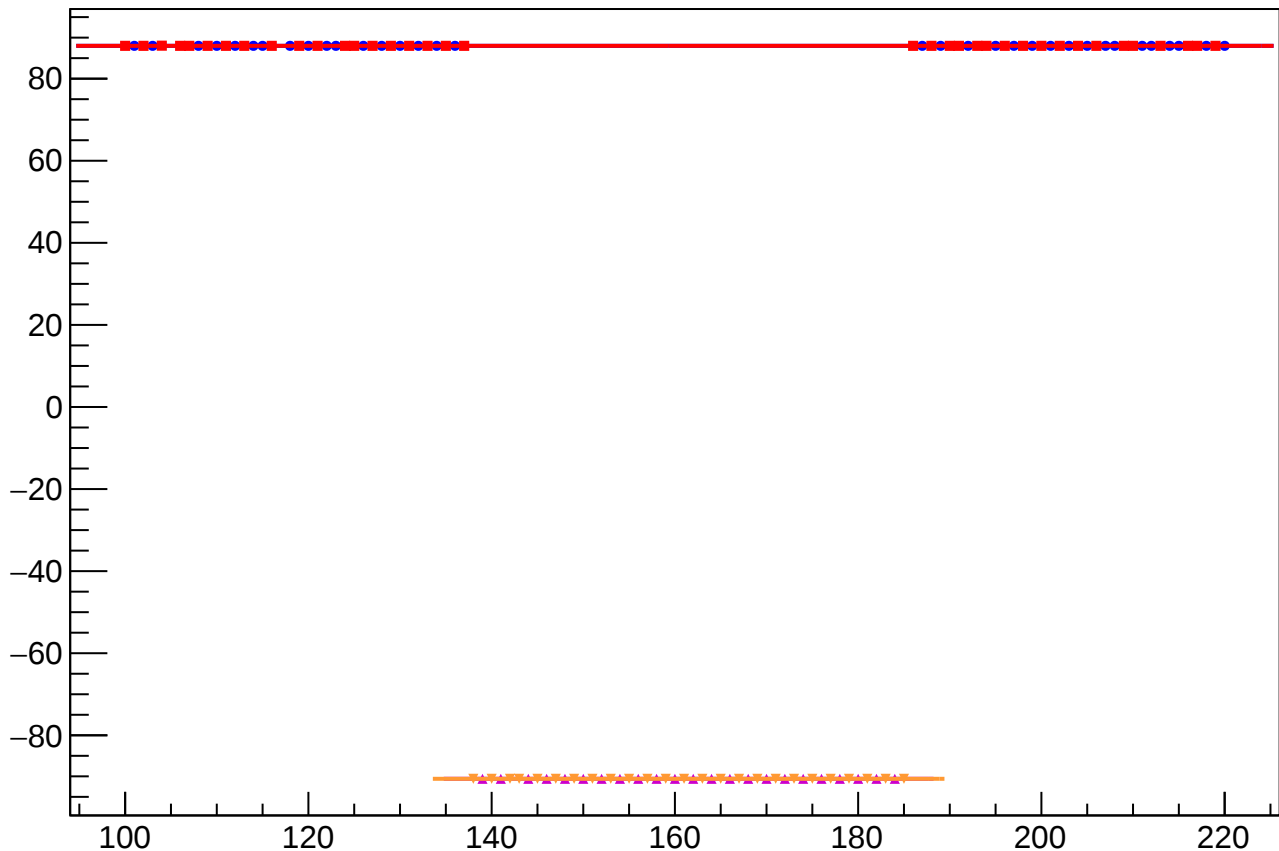
Right: 0.011+/-0.000 χ^2/NDF : 5049381.9/70

In: 0.010+/-0.000 χ^2/NDF :3705008.8/56

Out: 0.010+/-0.000 χ^2/NDF :4396378.8/61

All: 0.010+/-0.000 χ^2/NDF : 8106297.6/118

epics_VWienAngles_mean vs Slug, Sign Corrected



Right In: 88.001+/-0.000 χ^2/NDF : 4635321.4/33

Left Out: -90.599+/-0.000 χ^2/NDF : 5785821.4/24

Right Out: 88.002+/-0.000 χ^2/NDF : 81314252579523800915834306560.0/36

Left In: -90.599+/-0.000 χ^2/NDF : 7134230.8/22

Left: -90.599+/-0.000 χ^2/NDF : 11903242.1/47

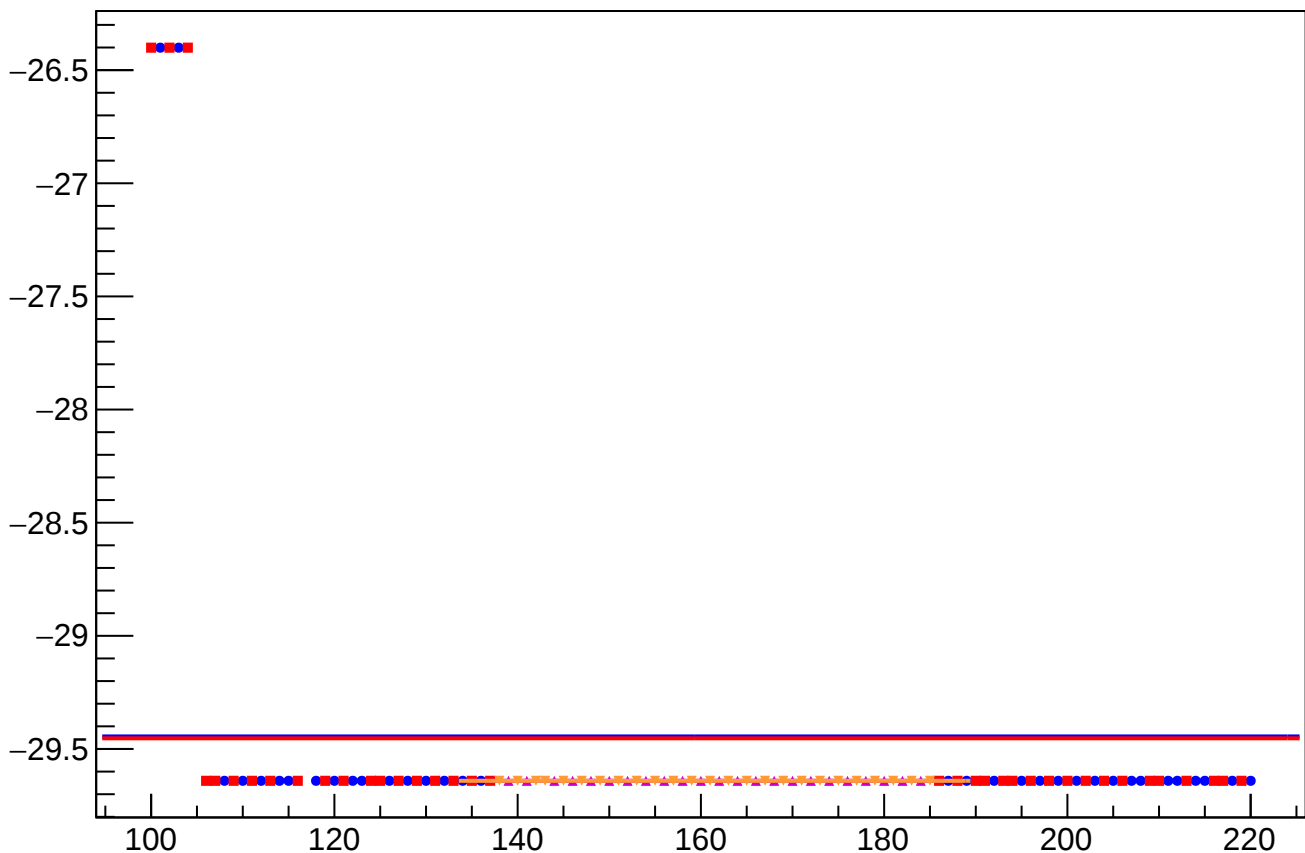
Right: 88.001+/-0.000 χ^2/NDF : 8236306363499236

In: 2.372+/-0.000 χ^2/NDF : 298219528862786671

Out: 0.918+/-0.000 χ^2/NDF : 311374872951459046

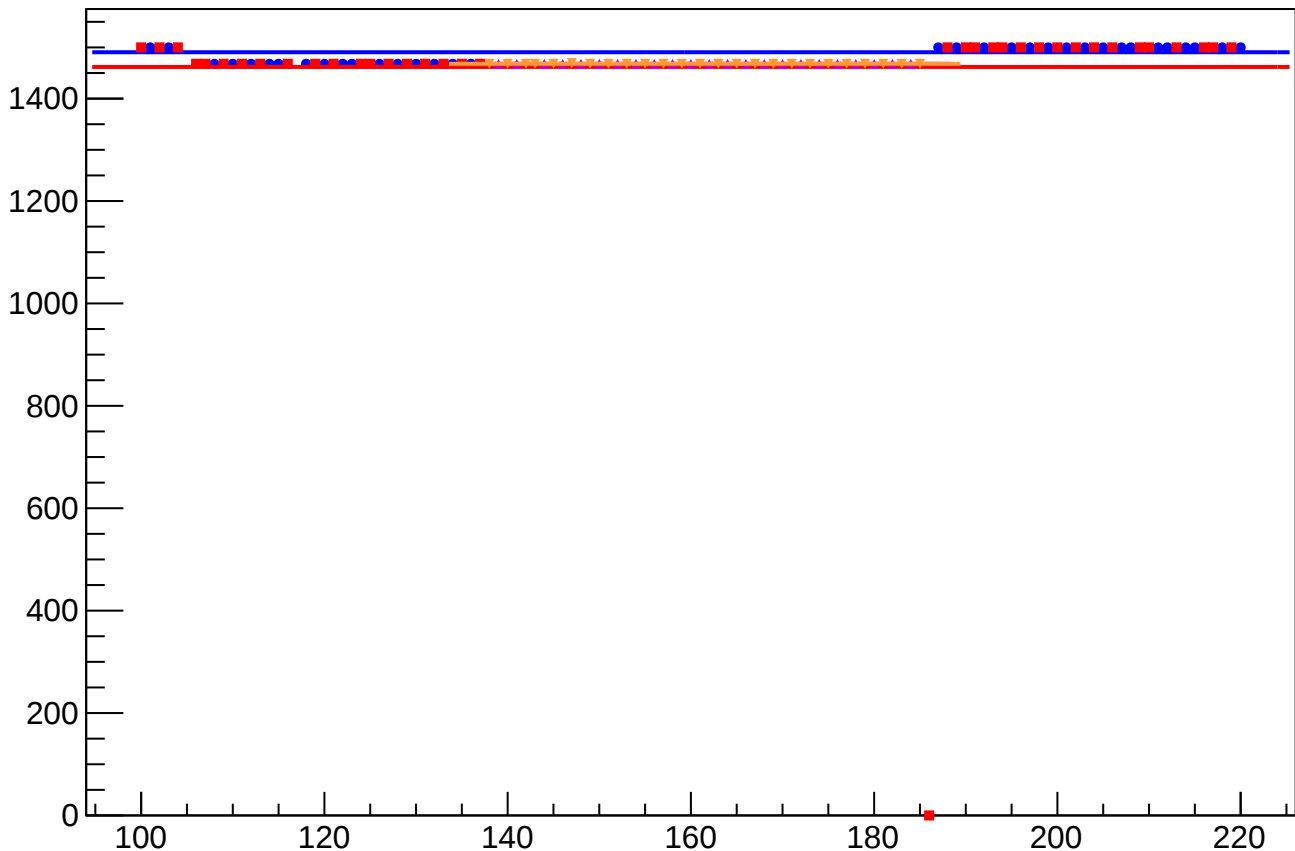
All: 1.630+/-0.000 χ^2/NDF : 60963480829006

epics_HWienAngles_mean vs Slug, Sign Corrected



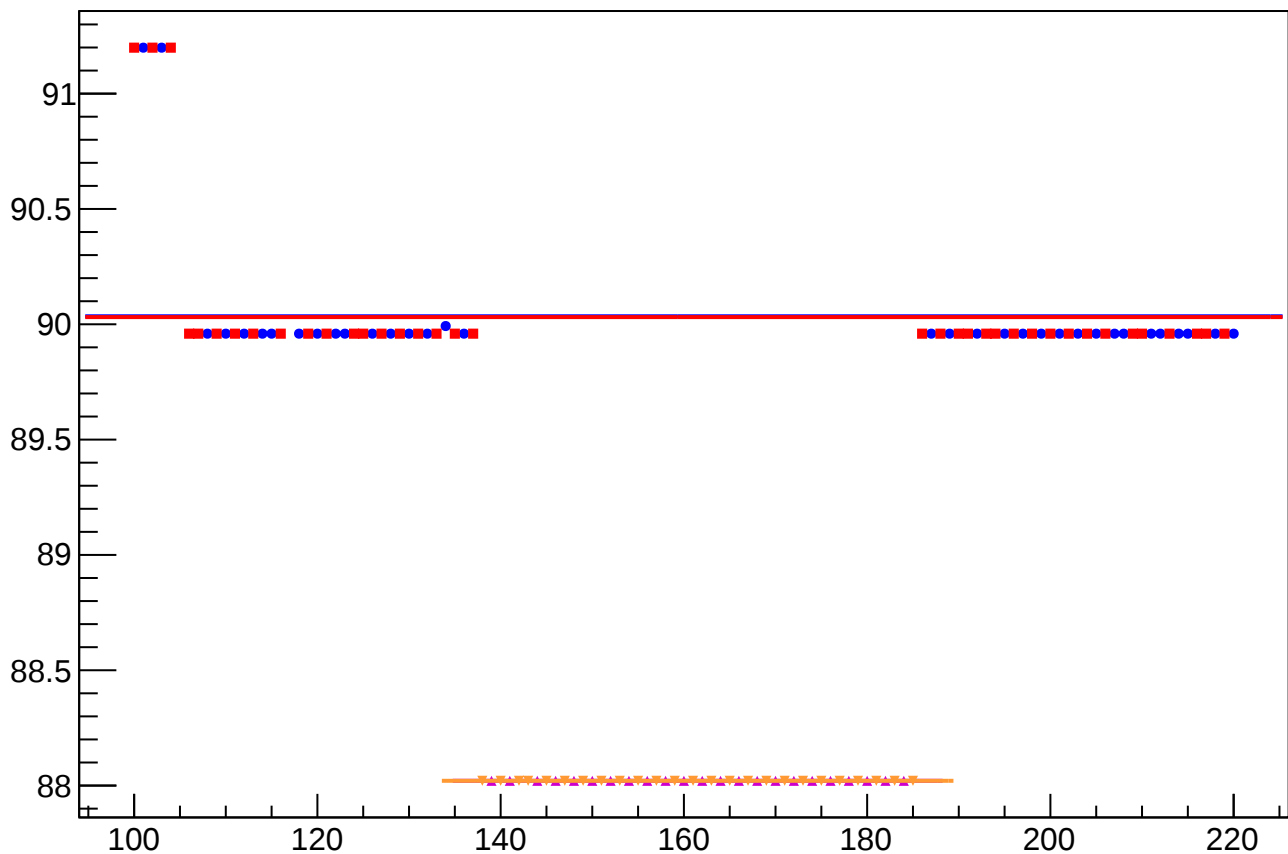
Right In: -29.445+/-0.000 χ^2/NDF : 1163758552615373980353122162180096.0/33
 Left Out: -29.641+/-0.000 χ^2/NDF : 530354.3/24
 Right Out: -29.453+/-0.000 χ^2/NDF : 1147164304495487252752307914276864.0/36
 Left In: -29.641+/-0.000 χ^2/NDF : 382603.8/22
 In: -29.539+/-0.000 χ^2/NDF : 11996968901227807
 Out: -29.545+/-0.000 χ^2/NDF : 1181567081034013
 All: -29.542+/-0.000 χ^2/NDF : 238132973861

epics_psub_pl_pos_mean vs Slug, Sign Corrected



Right In: 1490.591+/-0.000	χ^2/NDF : 414897606972480269257179982897086464.0/33	Left: 1468.022+/-0.000	χ^2/NDF : 130807817753460
Left Out: 1468.048+/-0.000	χ^2/NDF : 127949199501977668488138456039424.0/24	Right: 1476.041+/-0.000	χ^2/NDF : 84437157936009
Right Out: 1461.868+/-0.000	χ^2/NDF : 83207287377380146473779228178542231552.0/36	In: 1479.757+/-0.000	χ^2/NDF : 8923222323418997
Left In: 1467.994+/-0.000	χ^2/NDF : 144497772795444989723550941184.0/22	Out: 1464.881+/-0.000	χ^2/NDF : 832446903224191
	All: 1472.163+/-0.000	χ^2/NDF : 84560198703	

epics_Phi_FGs_mean vs Slug, Sign Corrected



Right In: 90.035+/-0.000

χ^2/NDF : 170376083142693172332899579461632.0/33

Left: 88.021+/-0.000 χ^2/NDF : 13134723.4/47

Right: 90.033+/-0.000 χ^2/NDF : 3384154496590437

Left Out: 88.021+/-0.000

χ^2/NDF : 5679798.5/24

Right Out: 90.031+/-0.000

χ^2/NDF : 168026961838208649723816120942592.0/36

Left In: 88.021+/-0.000

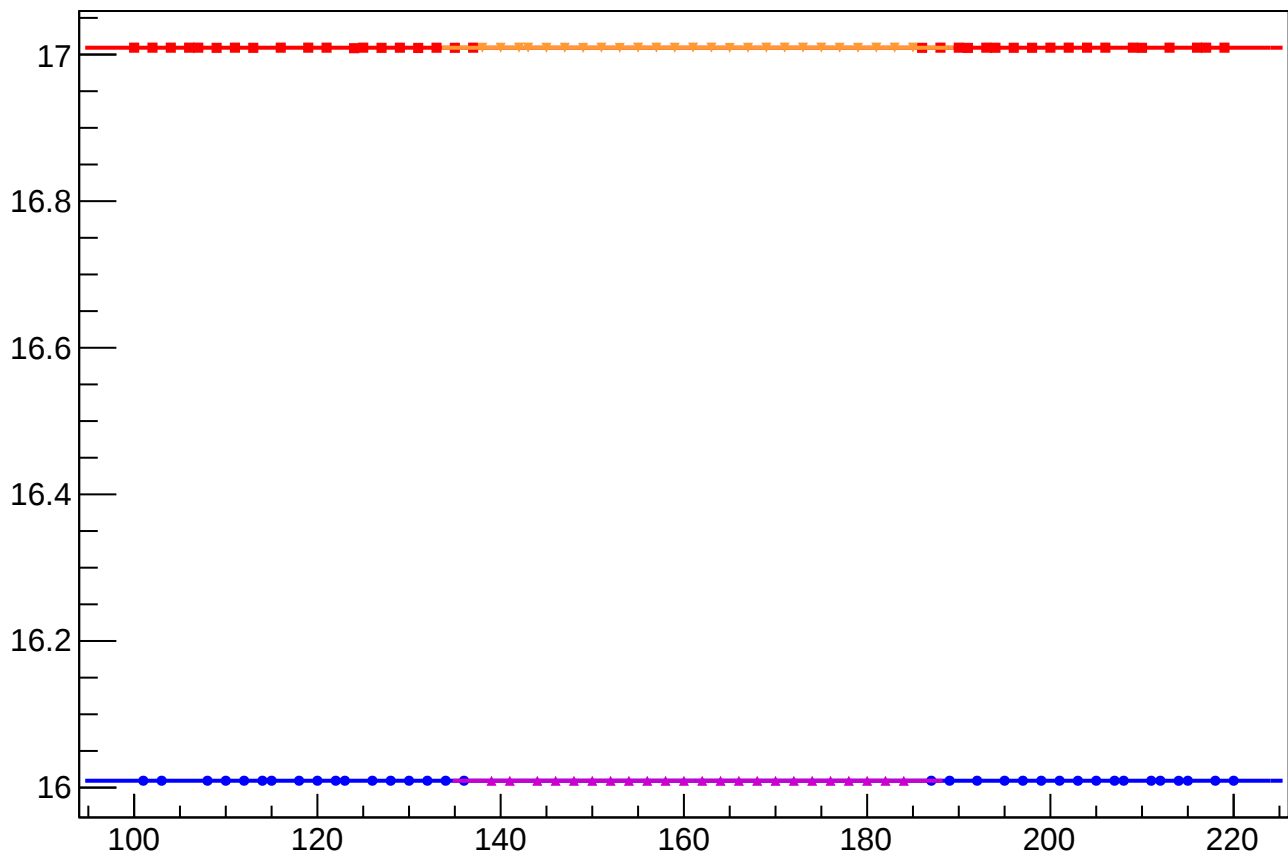
χ^2/NDF : 6257169.0/22

In: 89.069+/-0.000 χ^2/NDF : 396252929598092991

Out: 89.051+/-0.000 χ^2/NDF : 41134965167638665

All: 89.060+/-0.000 χ^2/NDF : 8076660180311

epics_IGL1I00DI24_24Ms_mean vs Slug, Sign Corrected



Right In: 16.009 $\pm$ 0.000

χ^2 /NDF: 850855946046392697356288.0/33

Left: 16.524 $\pm$ 0.000

χ^2 /NDF: 85855870772921272

Right: 16.512 $\pm$ 0.000

χ^2 /NDF: 9631178114658879

Left Out: 17.009 $\pm$ 0.000

χ^2 /NDF: 26194929080144976634970112.0/24

In: 16.009 $\pm$ 0.000

χ^2 /NDF: 991857225787745226

Right Out: 17.009 $\pm$ 0.000

χ^2 /NDF: 21619728953174294383296512.0/36

Out: 17.009 $\pm$ 0.000

χ^2 /NDF: 49675279434938121

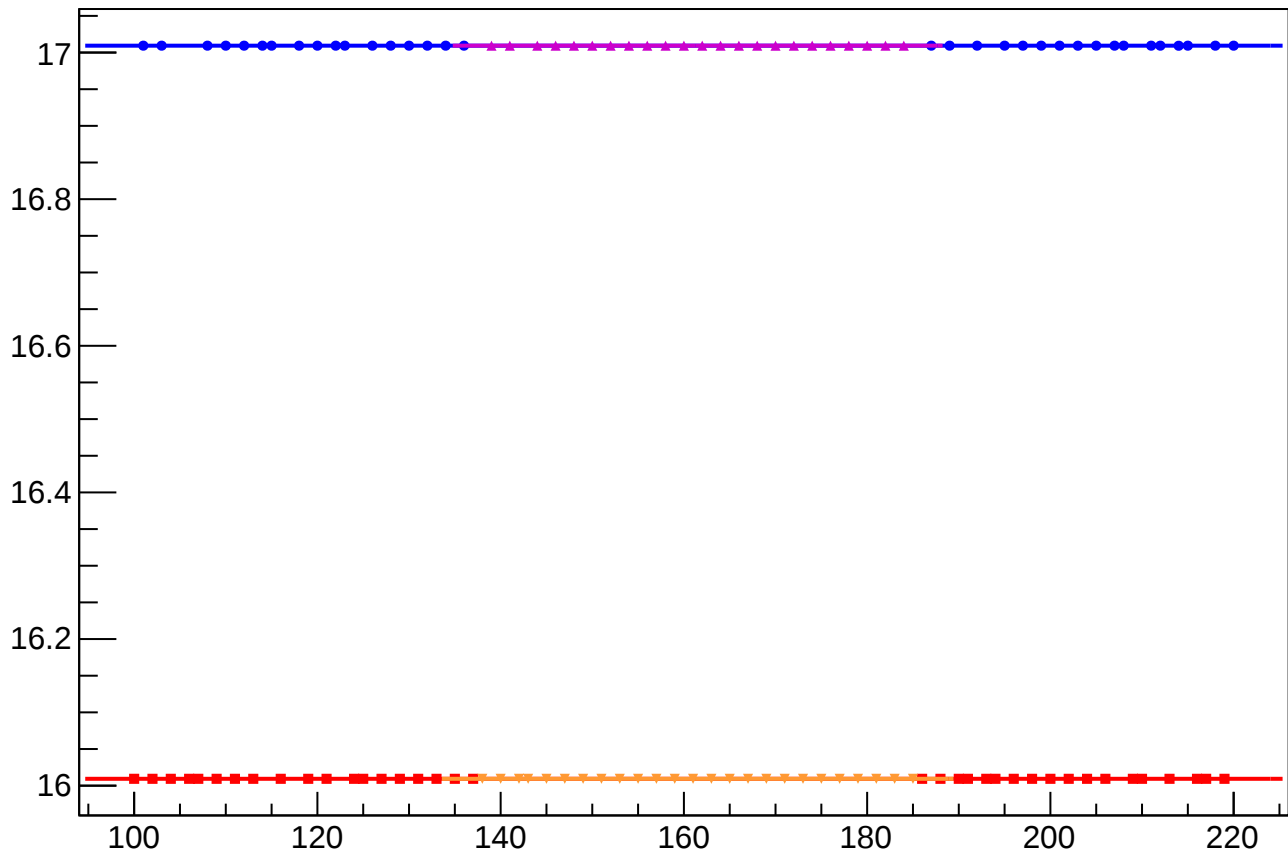
Left In: 16.009 $\pm$ 0.000

χ^2 /NDF: 127920993667935400624128.0/22

All: 16.517 $\pm$ 0.000

χ^2 /NDF: 1821965243055

epics_IGL1I00OD16_16s_mean vs Slug, Sign Corrected



Right In: 17.009+/-0.000

χ^2/NDF : 850855946177634013020160.0/33

Left Out: 16.009+/-0.000

χ^2/NDF : 61253.5/24

Right Out: 16.009+/-0.000

χ^2/NDF : 318194.9/36

Left In: 17.009+/-0.000

χ^2/NDF : 114986101427233622065152.0/22

Left: 16.491+/-0.000

χ^2/NDF : 90683349233974458

Right: 16.500+/-0.000

χ^2/NDF : 9778600467233965

In: 17.009+/-0.000

χ^2/NDF : 979892325837585759

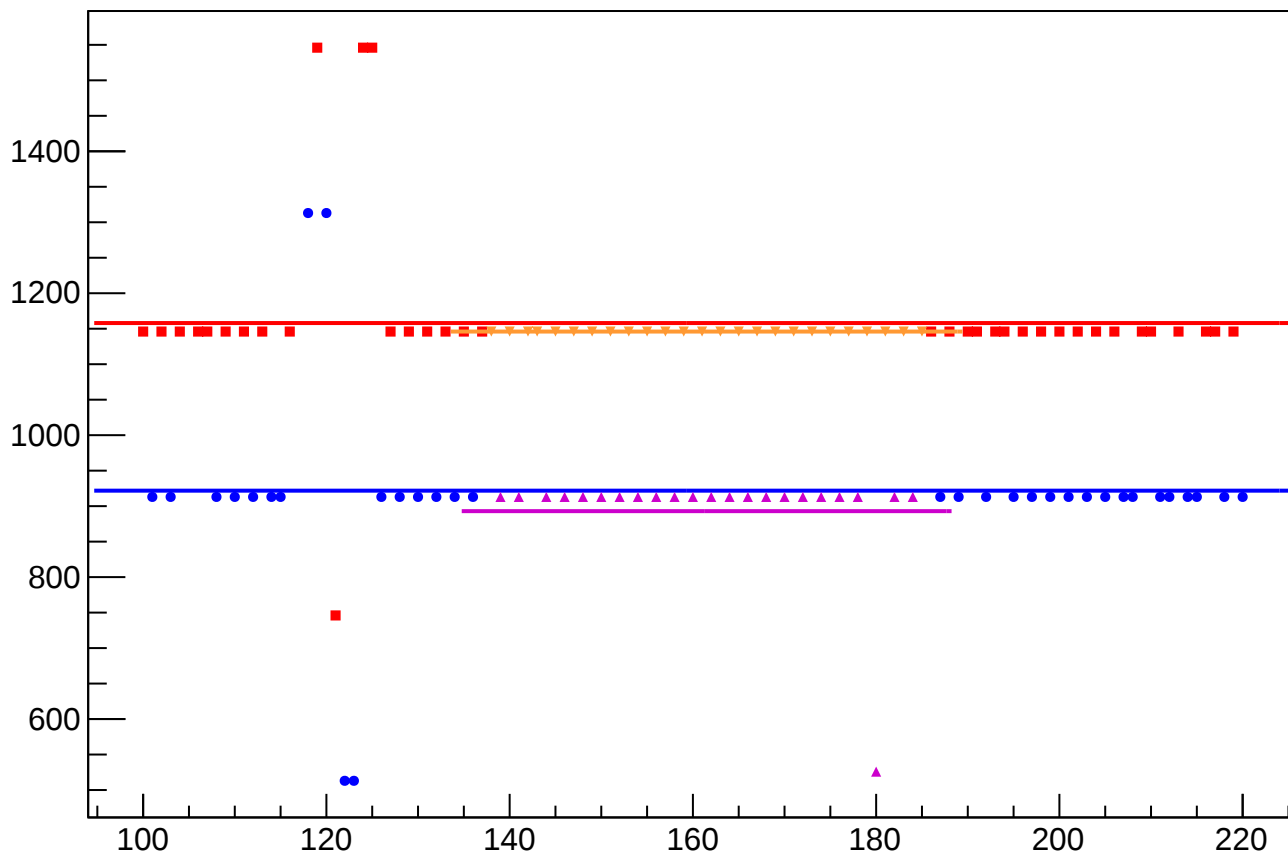
Out: 16.009+/-0.000

χ^2/NDF : 574770.4/61

All: 16.496+/-0.000

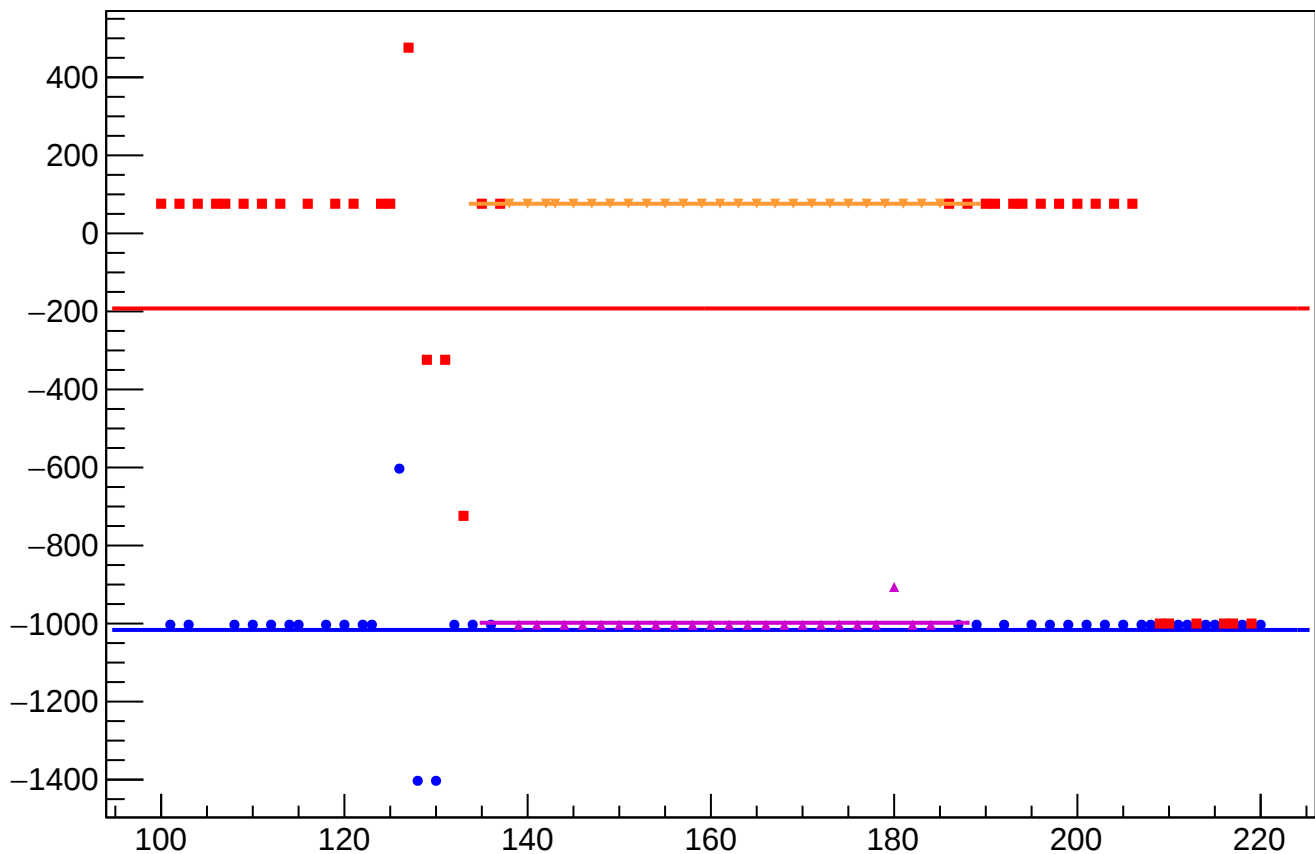
χ^2/NDF : 1884815771385

epics_RTPAPOSUCNTs_mean vs Slug, Sign Corrected



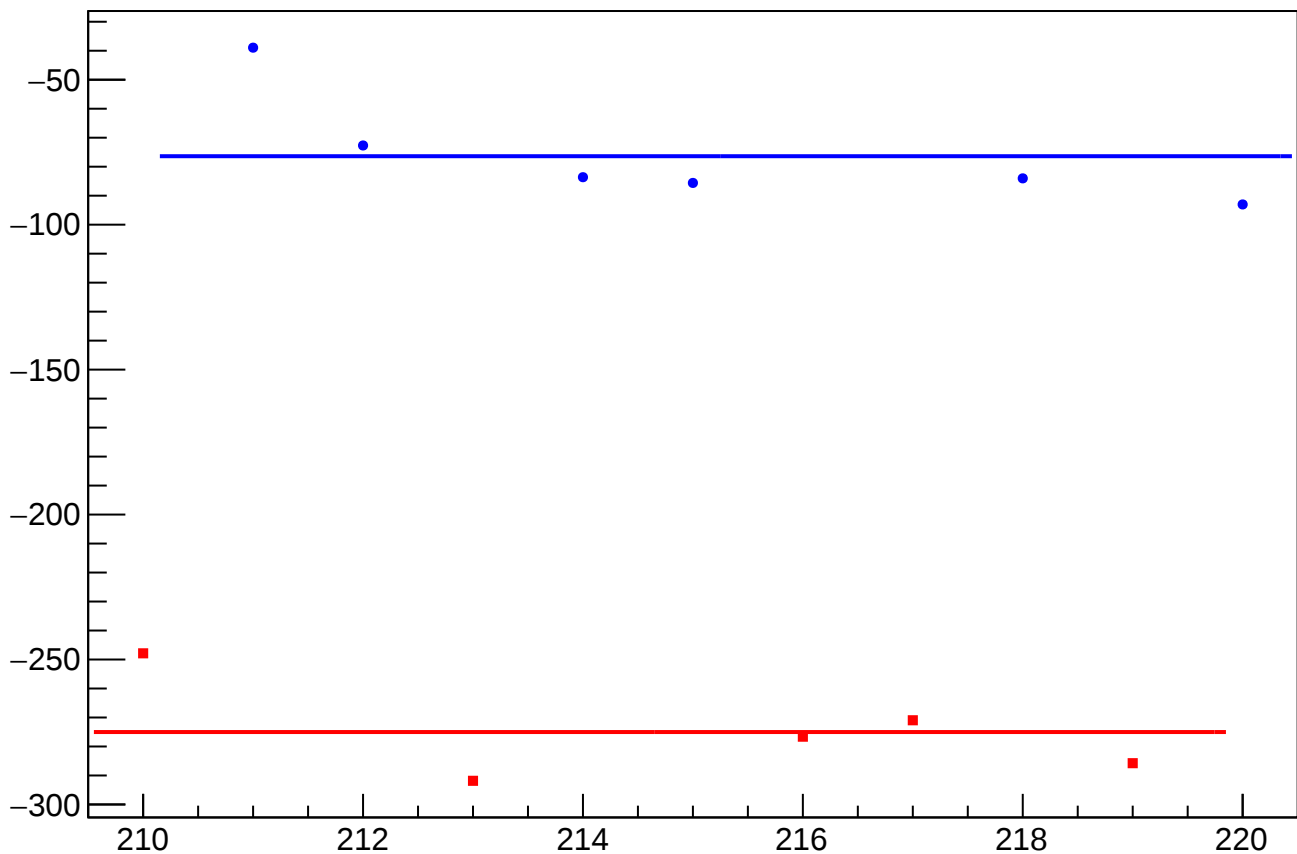
Left: 1023.207 $\pm$ 0.000 χ^2 /NDF: 724152114185977
 Right: 1041.460 $\pm$ 0.000 χ^2 /NDF: 98026107445160
 Right In: 921.815 $\pm$ 0.000 χ^2 /NDF: 21129649653969786996491672440446910464.0/33
 Left Out: 1146.011 $\pm$ 0.000 χ^2 /NDF: 8056834670270133849999540224.0/24
 Right Out: 1157.998 $\pm$ 0.000 χ^2 /NDF: 21793008718154891906057466122181017600.0/36
 Left In: 892.950 $\pm$ 0.000 χ^2 /NDF: 13213852485930520518972295012897783808.0/22
 In: 907.976 $\pm$ 0.000 χ^2 /NDF: 35122439429343283
 Out: 1152.153 $\pm$ 0.000 χ^2 /NDF: 219332641698258
 All: 1032.633 $\pm$ 0.000 χ^2 /NDF: 17107807315

epics_RTPAPOSVCNTs_mean vs Slug, Sign Corrected



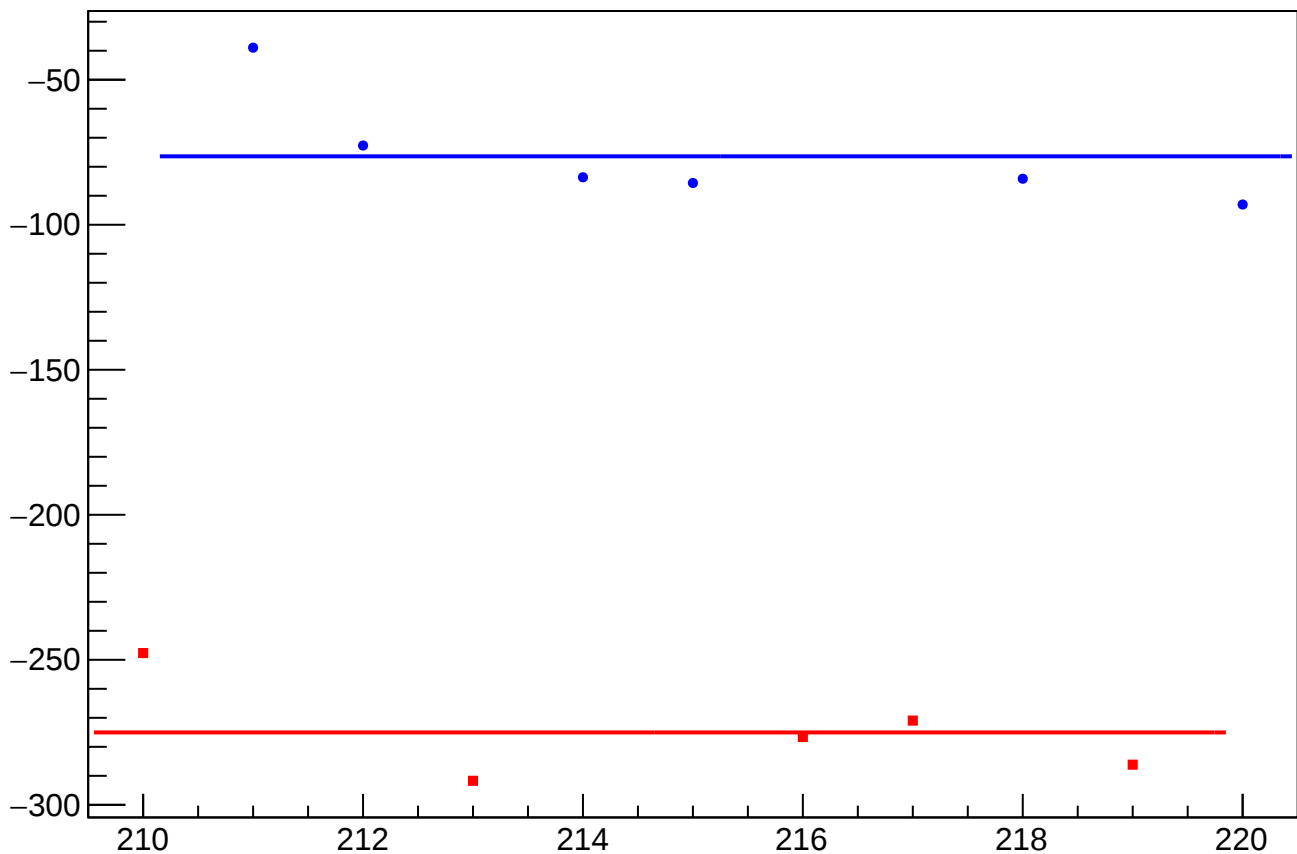
Left: -445.169+/-0.000 χ^2/NDF : 106713327806479
 Right In: -1016.322+/-0.000 χ^2/NDF : 22853022614691861095159758513898520576.0/33
 Left Out: 76.011+/-0.000 χ^2/NDF : 11479003589933272170007363584.0/24
 Right Out: -192.373+/-0.000 χ^2/NDF : 428465475545596953372918387855499198464.0/36
 In: -1007.527+/-0.000 χ^2/NDF : 239934604161655
 Out: -61.512+/-0.000 χ^2/NDF : 4987771845623181
 Left In: -997.979+/-0.000 χ^2/NDF : 825858066518991041870194619245920256.0/22
 All: -524.569+/-0.000 χ^2/NDF : 22342650824

epics_RTPPITA1CNTs_mean vs Slug, Sign Corrected



Right In: -76.386+/-0.000 χ^2/NDF : 145675152873236623026549417098346496.0/5
 Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0
 Right Out: -275.016+/-0.000 χ^2/NDF : 86022314037366847399450558125309952.0/4
 Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0
 All: -166.006+/-0.000 χ^2/NDF : 84380616822295

epics_RTPPITA2CNTs_mean vs Slug, Sign Corrected



Right In: -76.406+/-0.000 χ^2/NDF : 145816230215404119002419583600558080.0/5
 Left Out: 0.000+/-0.000 χ^2/NDF : 0.0/0
 Right Out: -275.040+/-0.000 χ^2/NDF : 87170037078998934606037616422813696.0/4
 Left In: 0.000+/-0.000 χ^2/NDF : 0.0/0
 All: -166.028+/-0.000 χ^2/NDF : 84396987599824